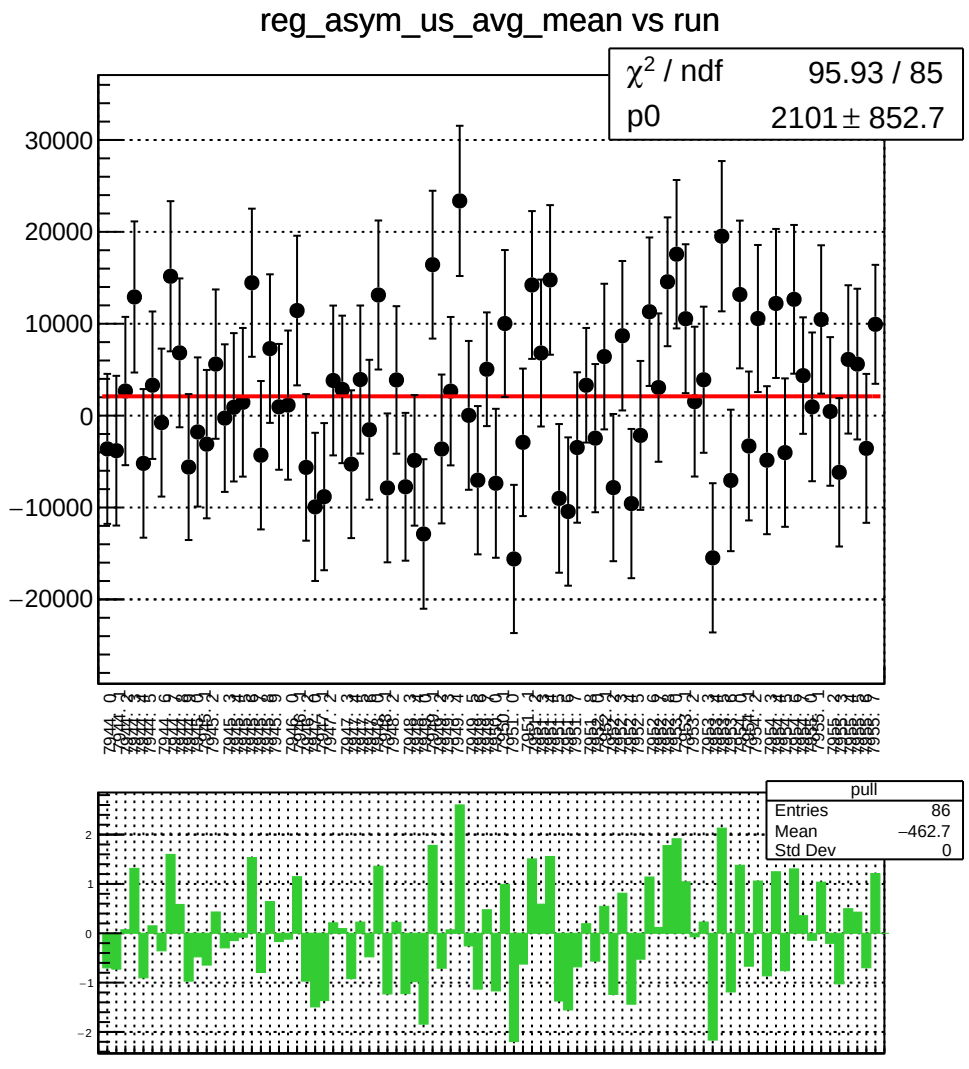
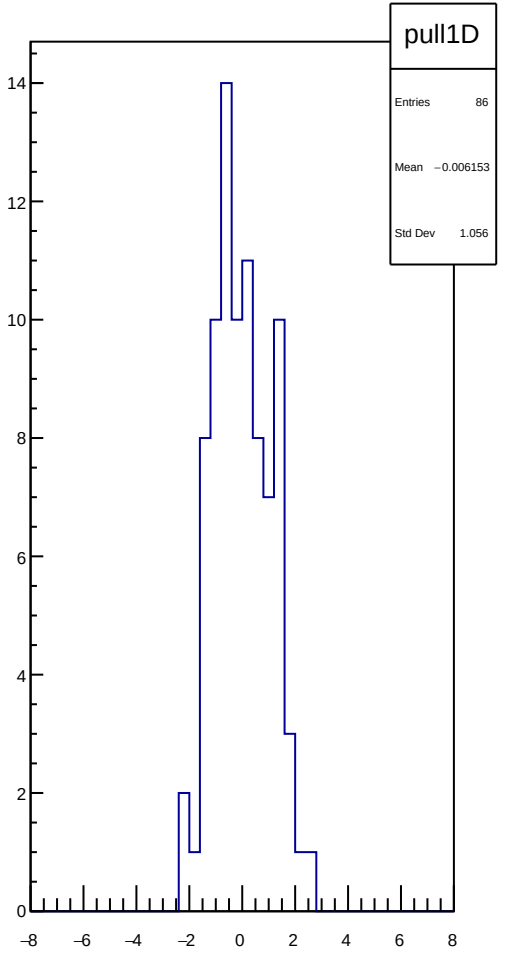
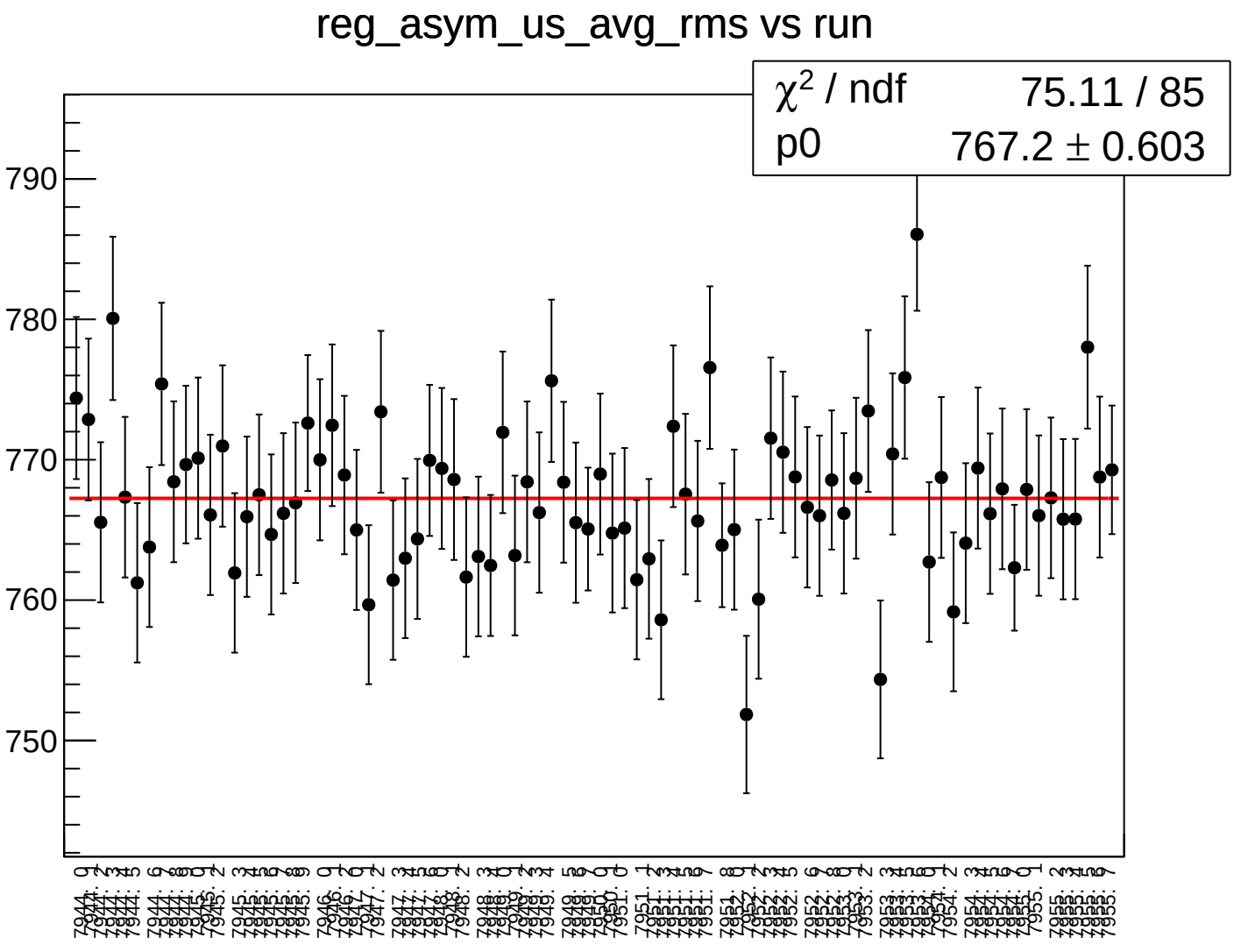
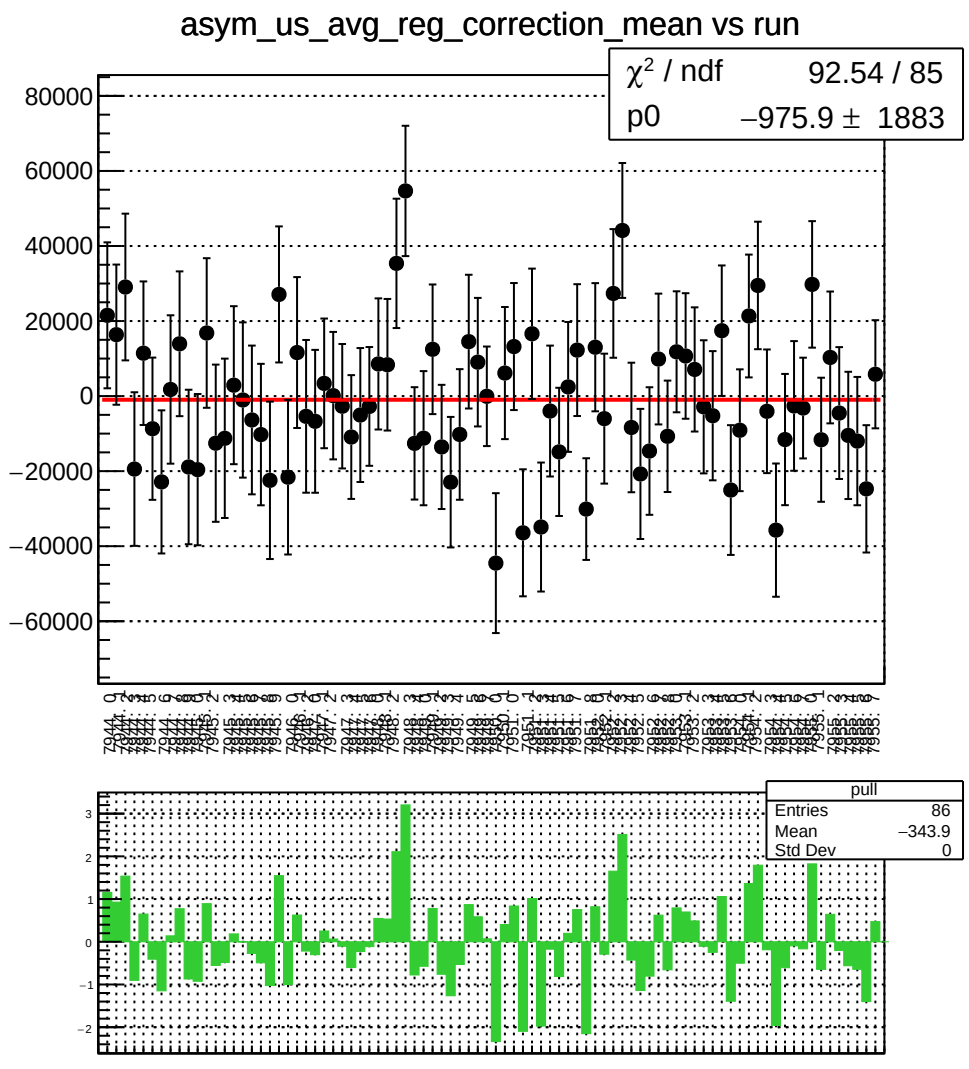
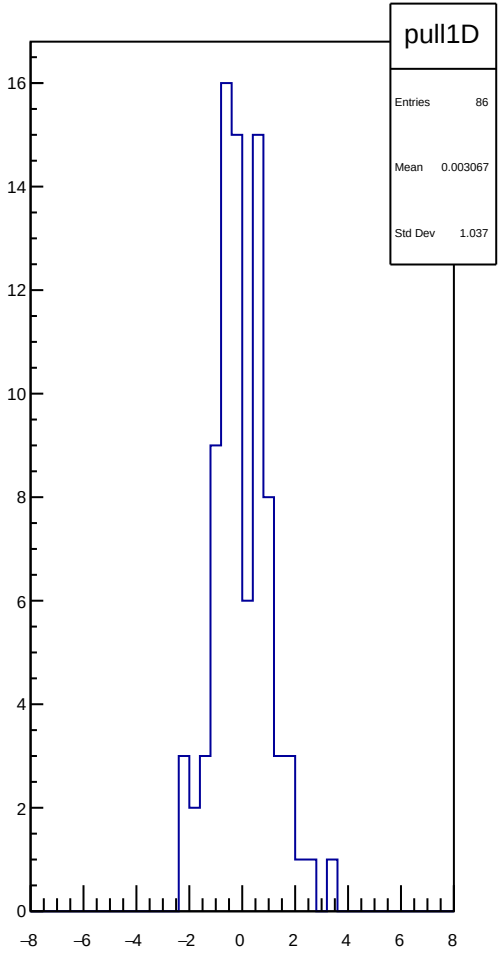
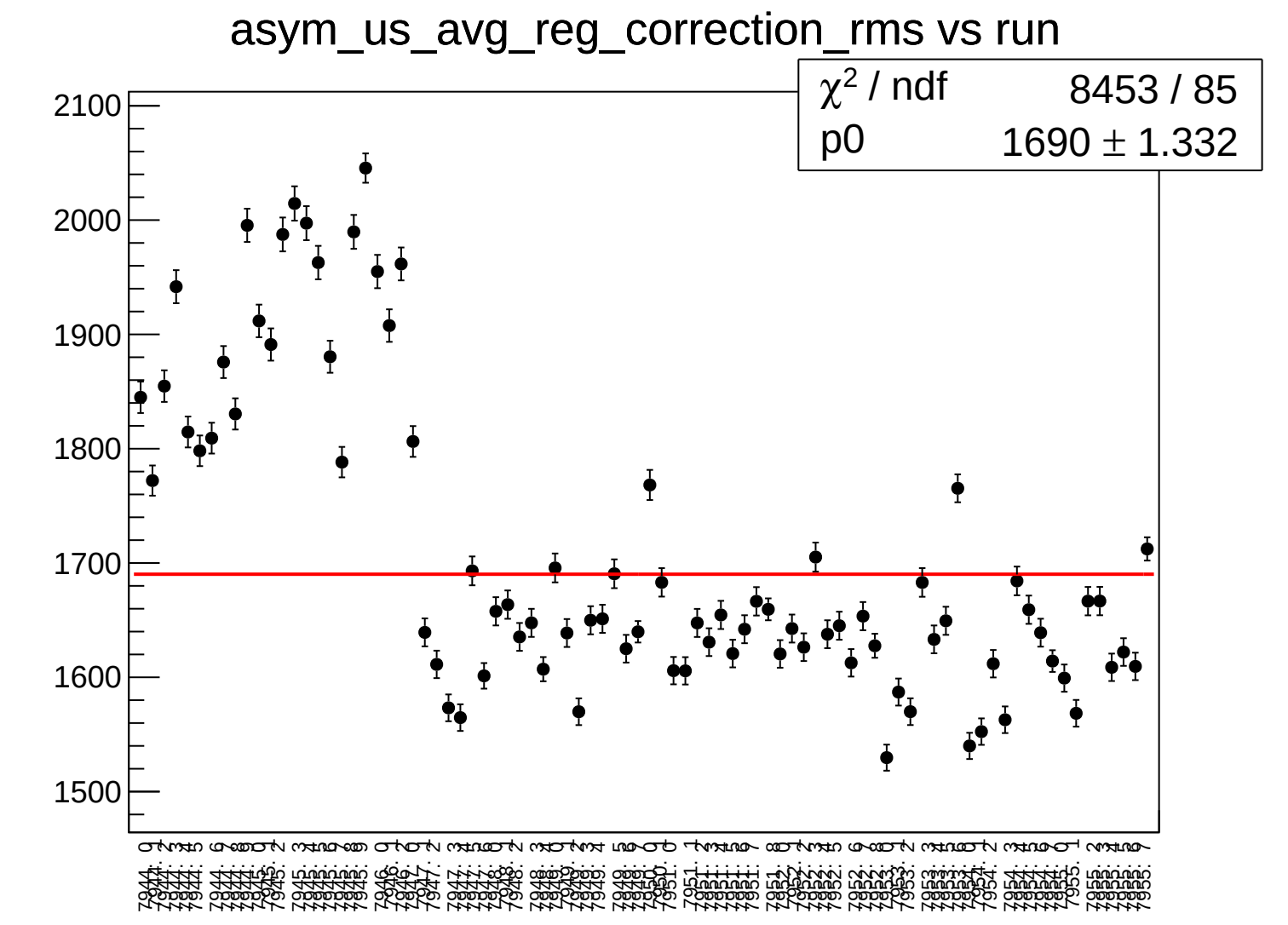

reg_asym_us_avg_mean vs run
χ² / ndf 95.93 / 85
p0 2101 ± 852.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −462.7
Std Dev 0
2
1
0
−1
−2

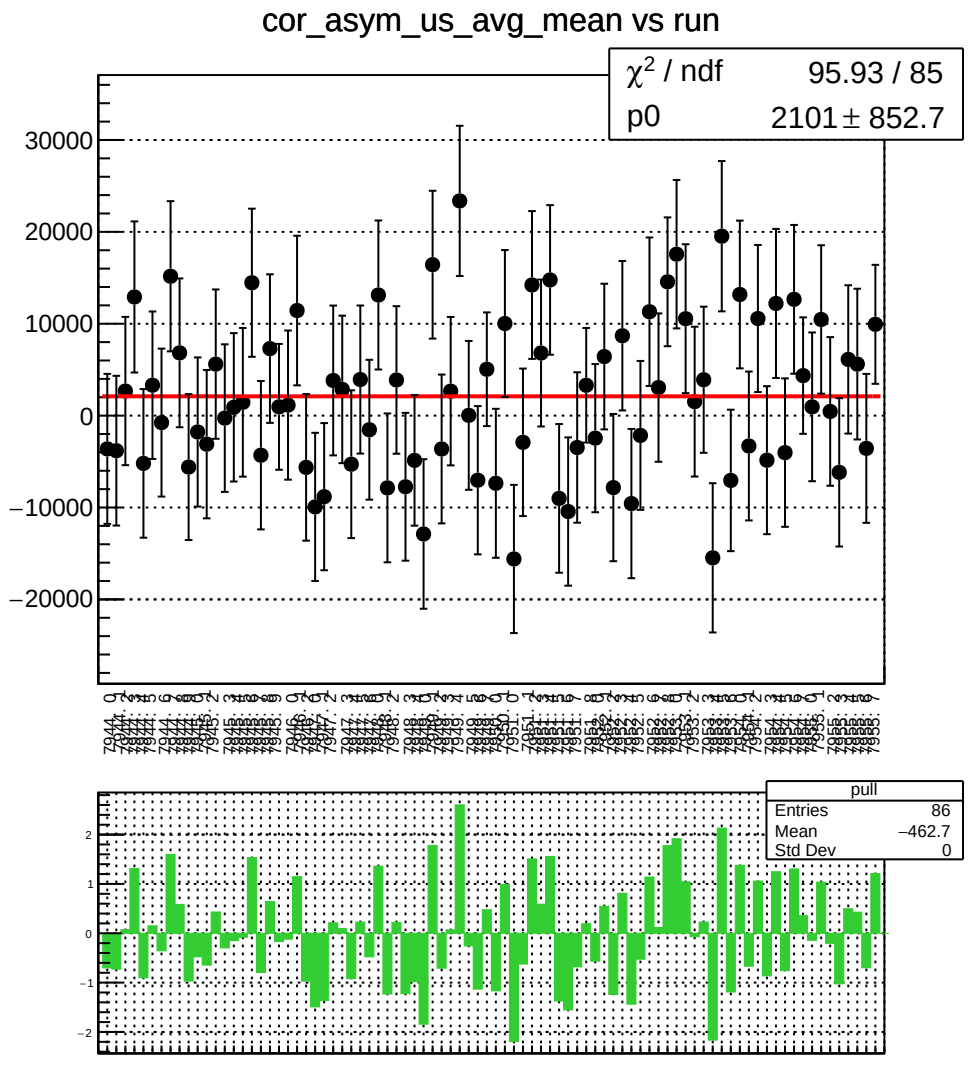

pull1D
Entries 86
Mean −0.006153
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

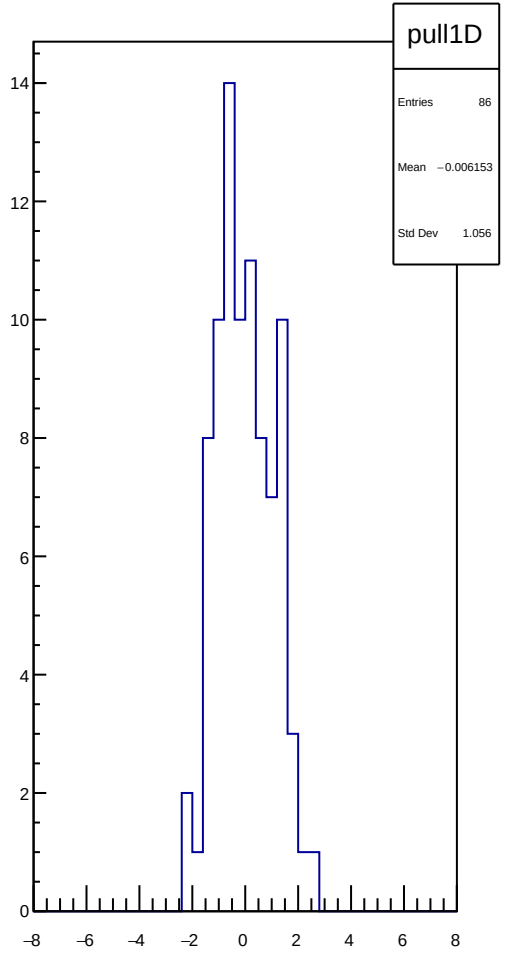

reg_asym_us_avg_rms vs run
χ^2 / ndf 75.11 / 85
p0 767.2 ± 0.603
790
780
770
760
750

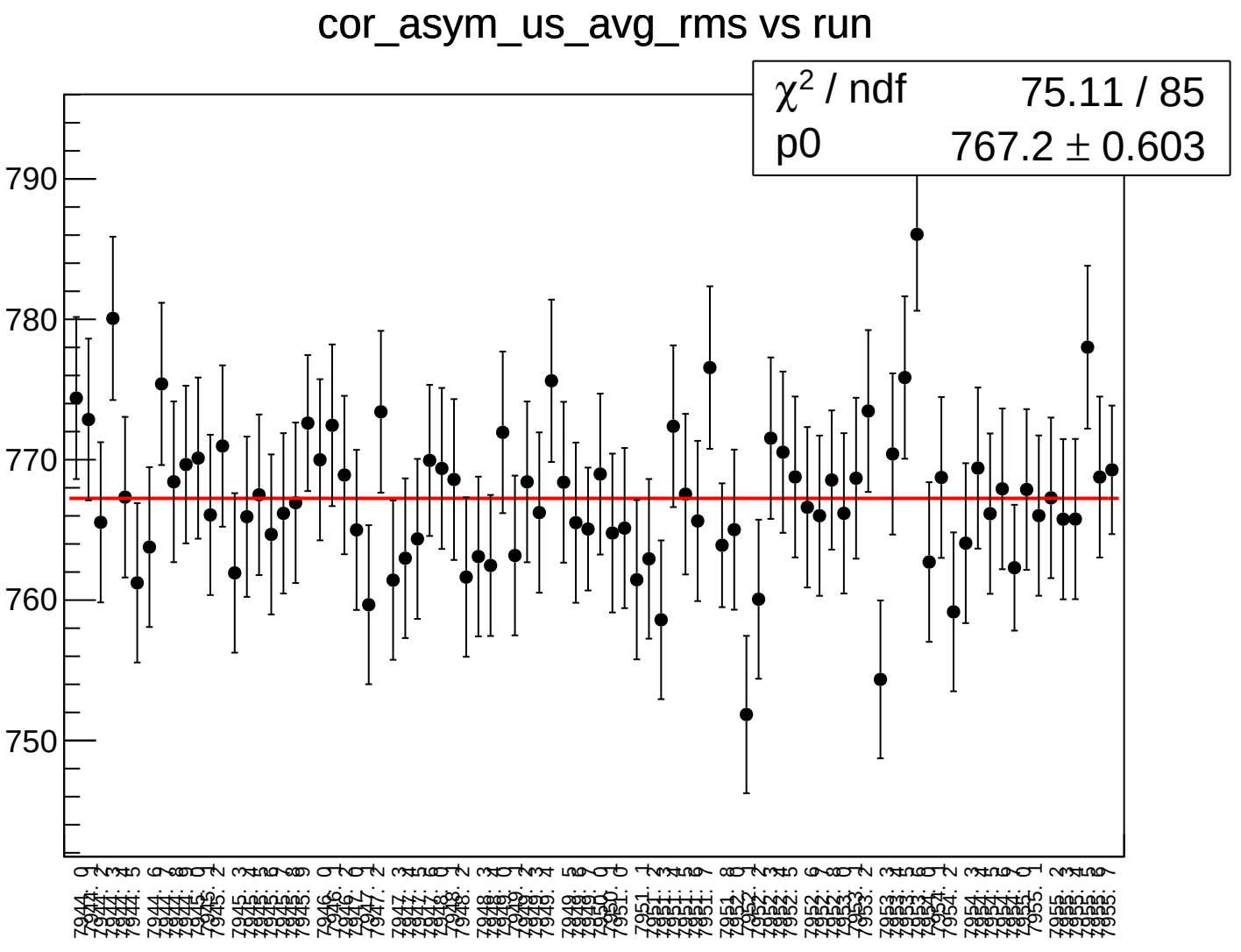

asym_us_avg_reg_correction_mean vs run
χ² / ndf 92.54 / 85
p0 −975.9 ± 1883
pull
Entries 86
Mean −343.9
Std Dev 0

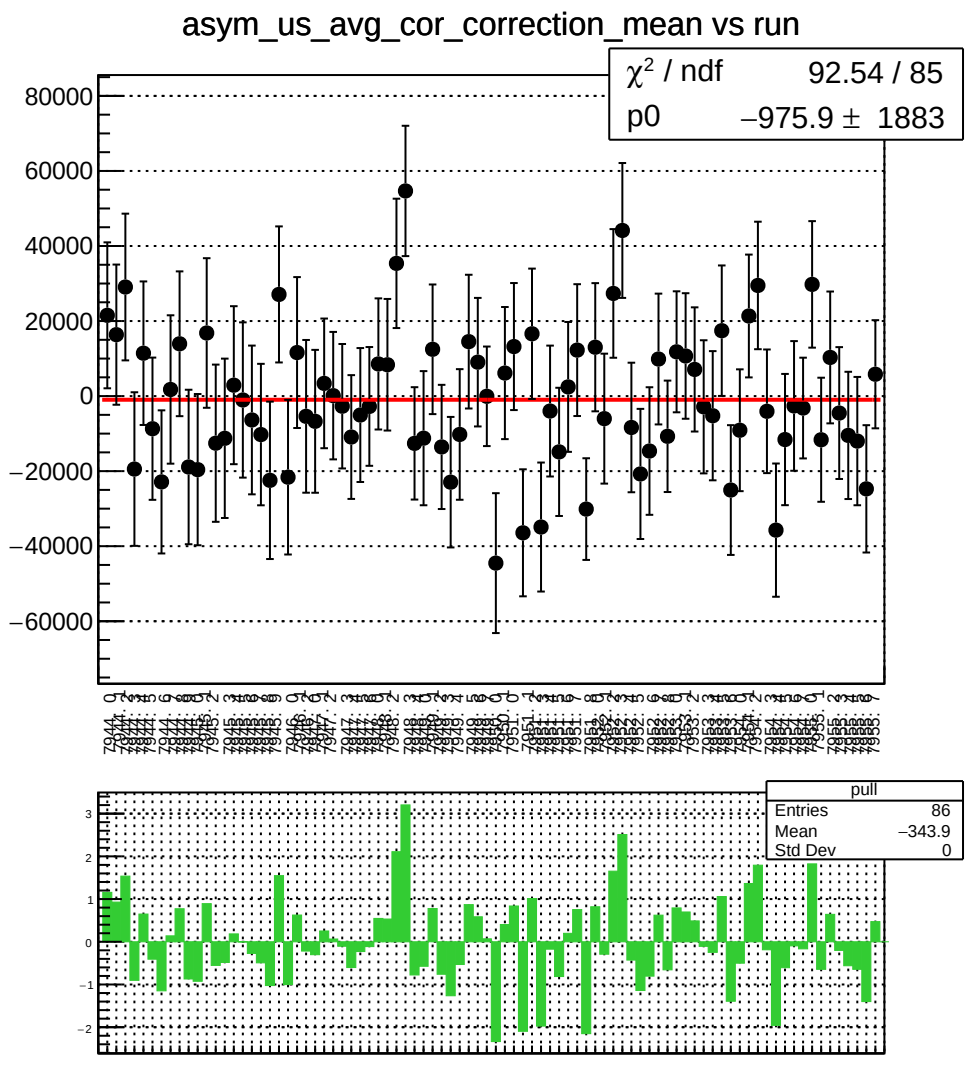

pull1D
Entries 86
Mean 0.003067
Std Dev 1.037

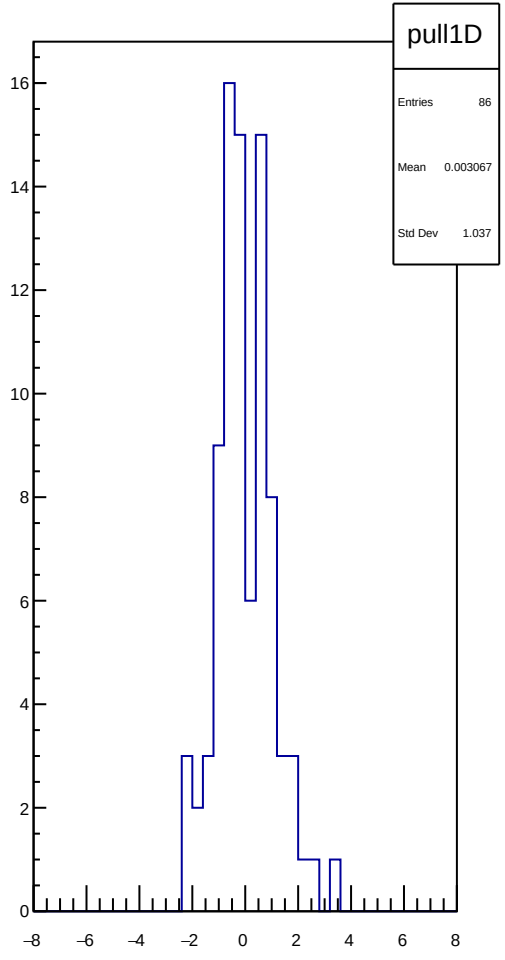

asym_us_avg_reg_correction_rms vs run
χ² / ndf 8453 / 85
p0 1690 ± 1.332
2100
2000
1900
1800
1700
1600
1500


cor_asym_us_avg_mean vs run
χ² / ndf 95.93 / 85
p0 2101 ± 852.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −462.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.006153
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_rms vs run
χ^2 / ndf 75.11 / 85
p0 767.2 ± 0.603
790
780
770
760
750


asym_us_avg_cor_correction_mean vs run
χ² / ndf 92.54 / 85
p0 −975.9 ± 1883
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −343.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.003067
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
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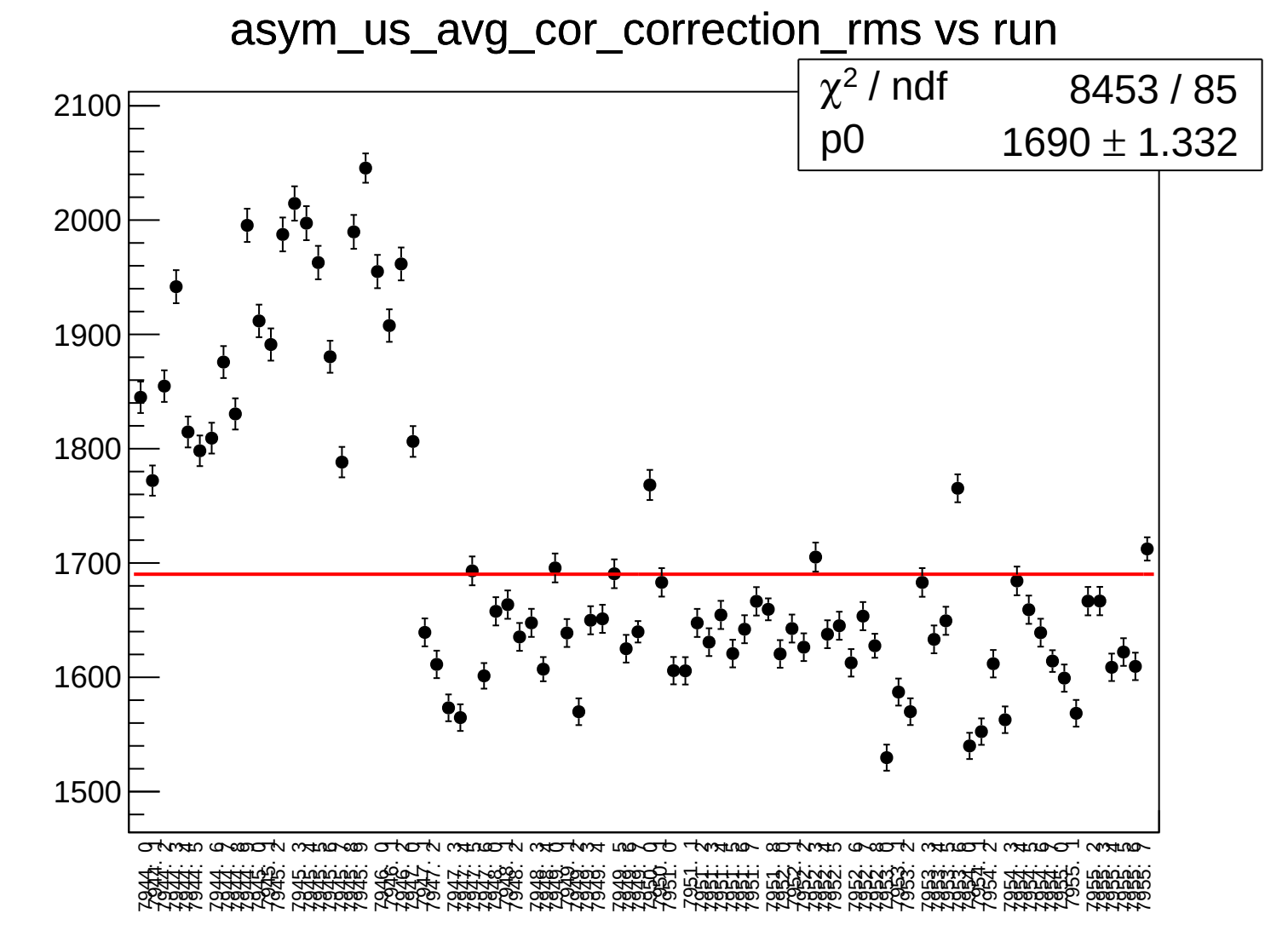
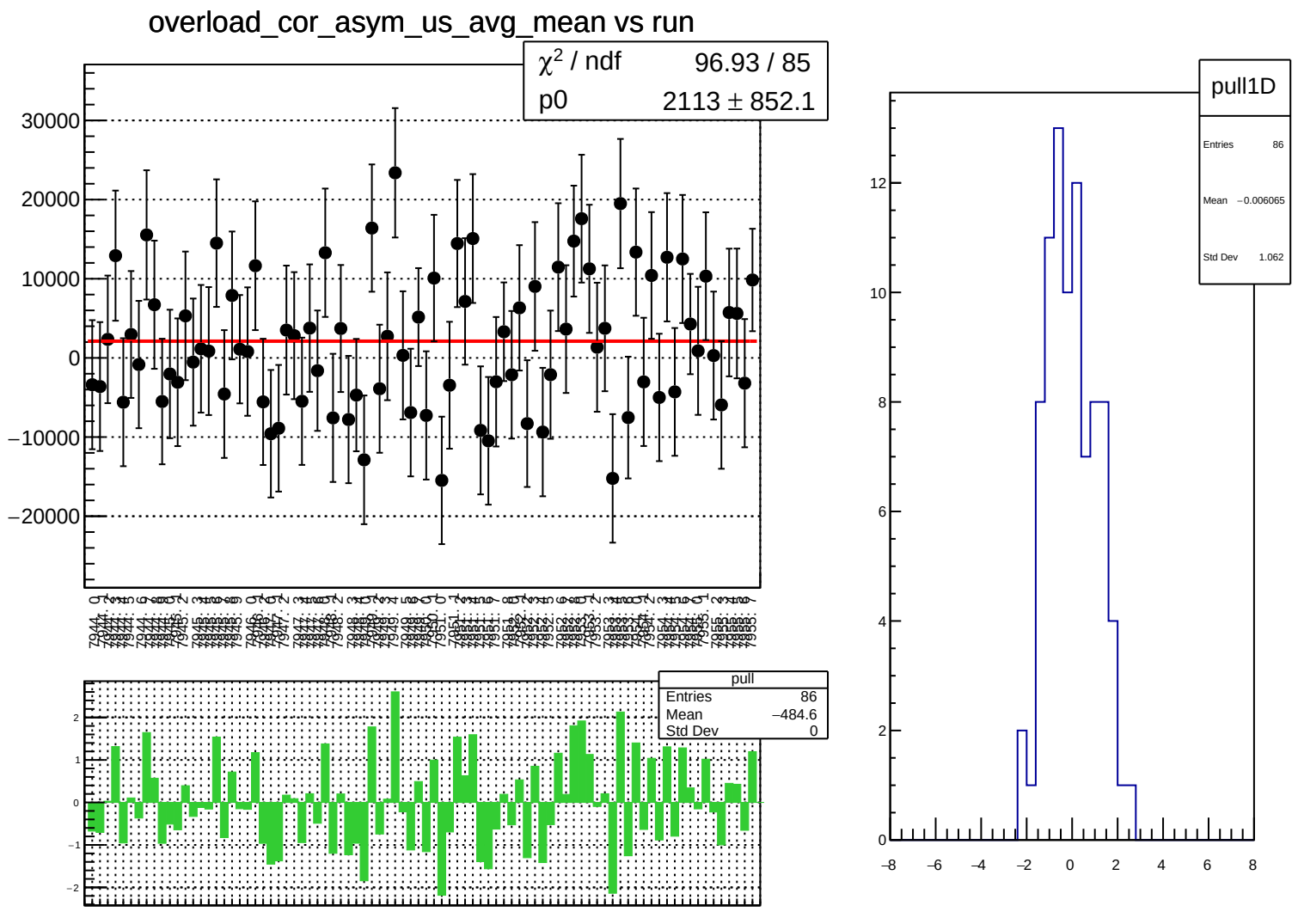
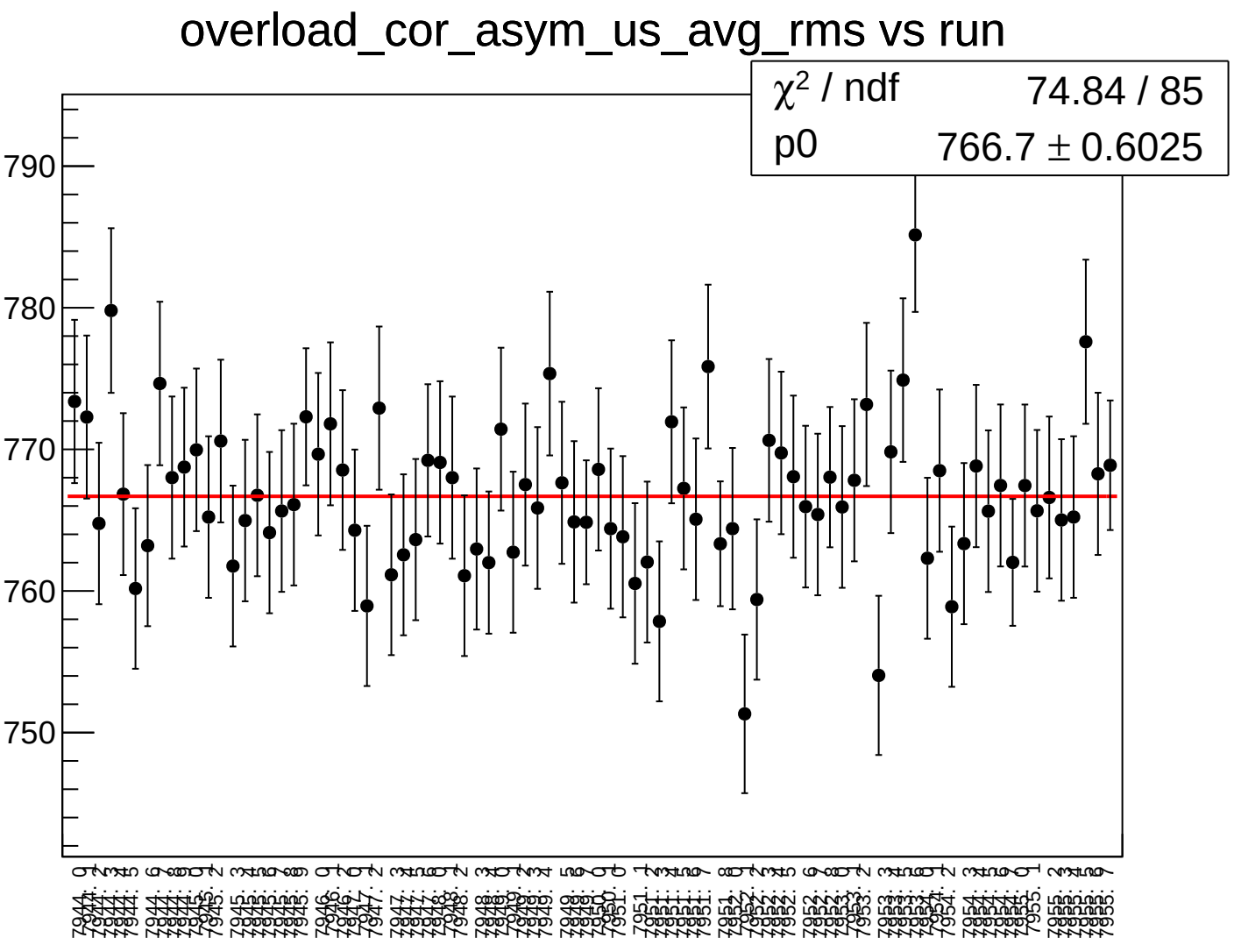
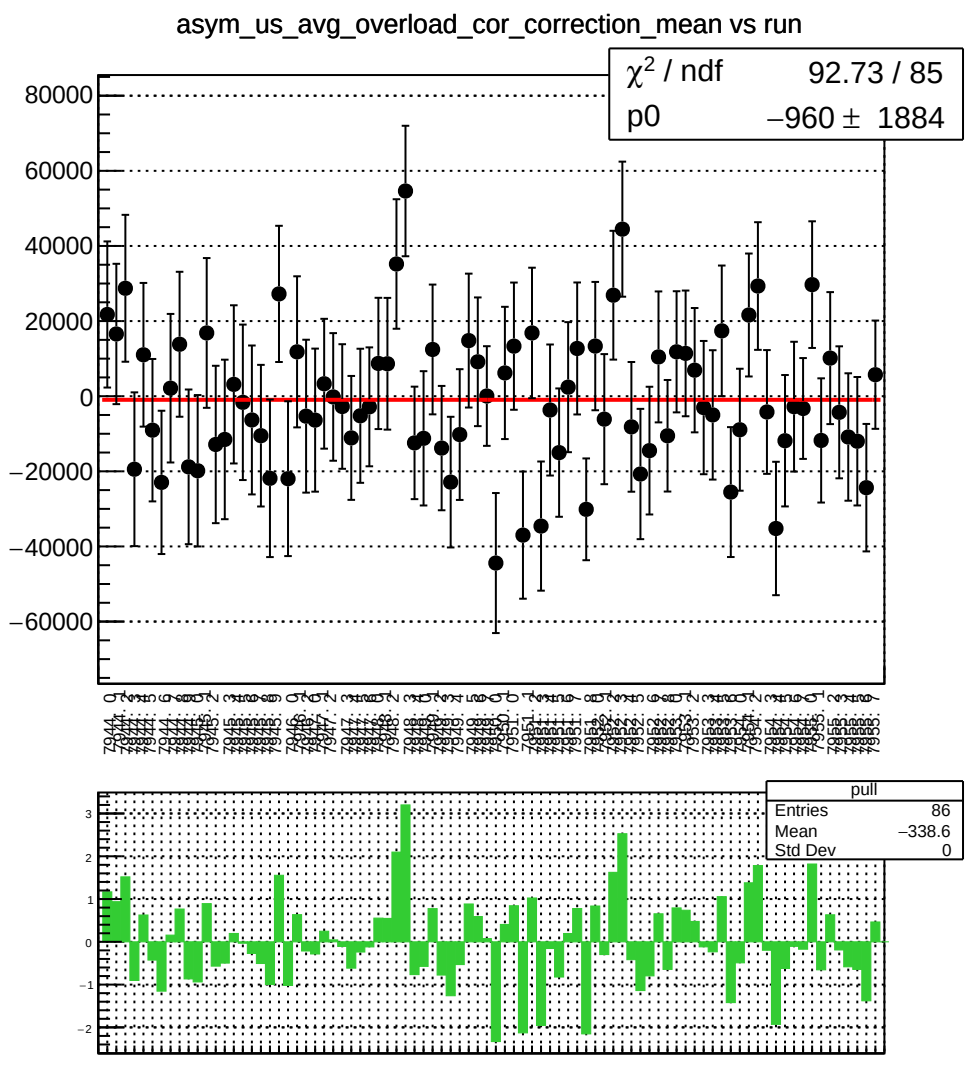
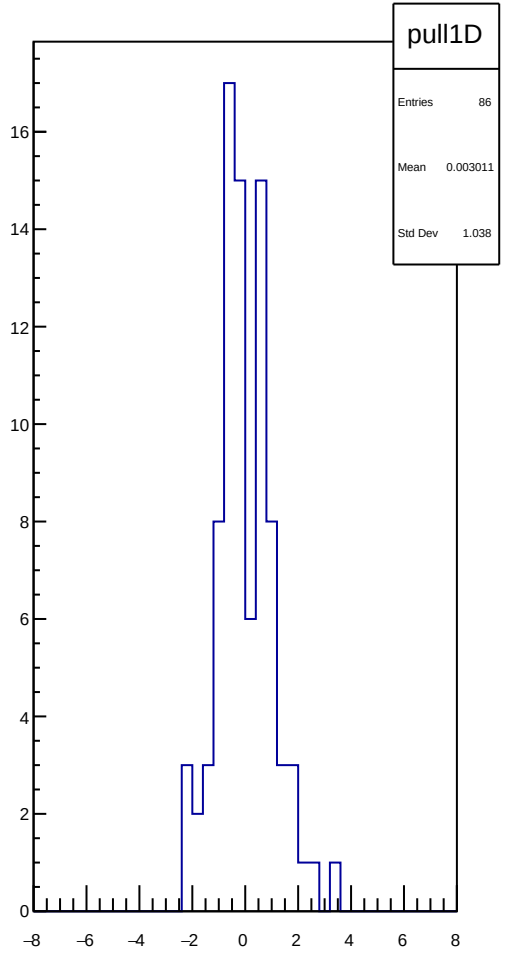
0
2
4
6
8


asym_us_avg_cor_correction_rms vs run
χ² / ndf 8453 / 85
p0 1690 ± 1.332
2100
2000
1900
1800
1700
1600
1500


overload_cor_asym_us_avg_mean vs run
χ² / ndf 96.93 / 85
p0 2113 ± 852.1
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −484.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.006065
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ² / ndf 74.84 / 85
p0 766.7 ± 0.6025
790
780
770
760
750


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 92.73 / 85
p0 −960 ± 1884
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −338.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.003011
Std Dev 1.038
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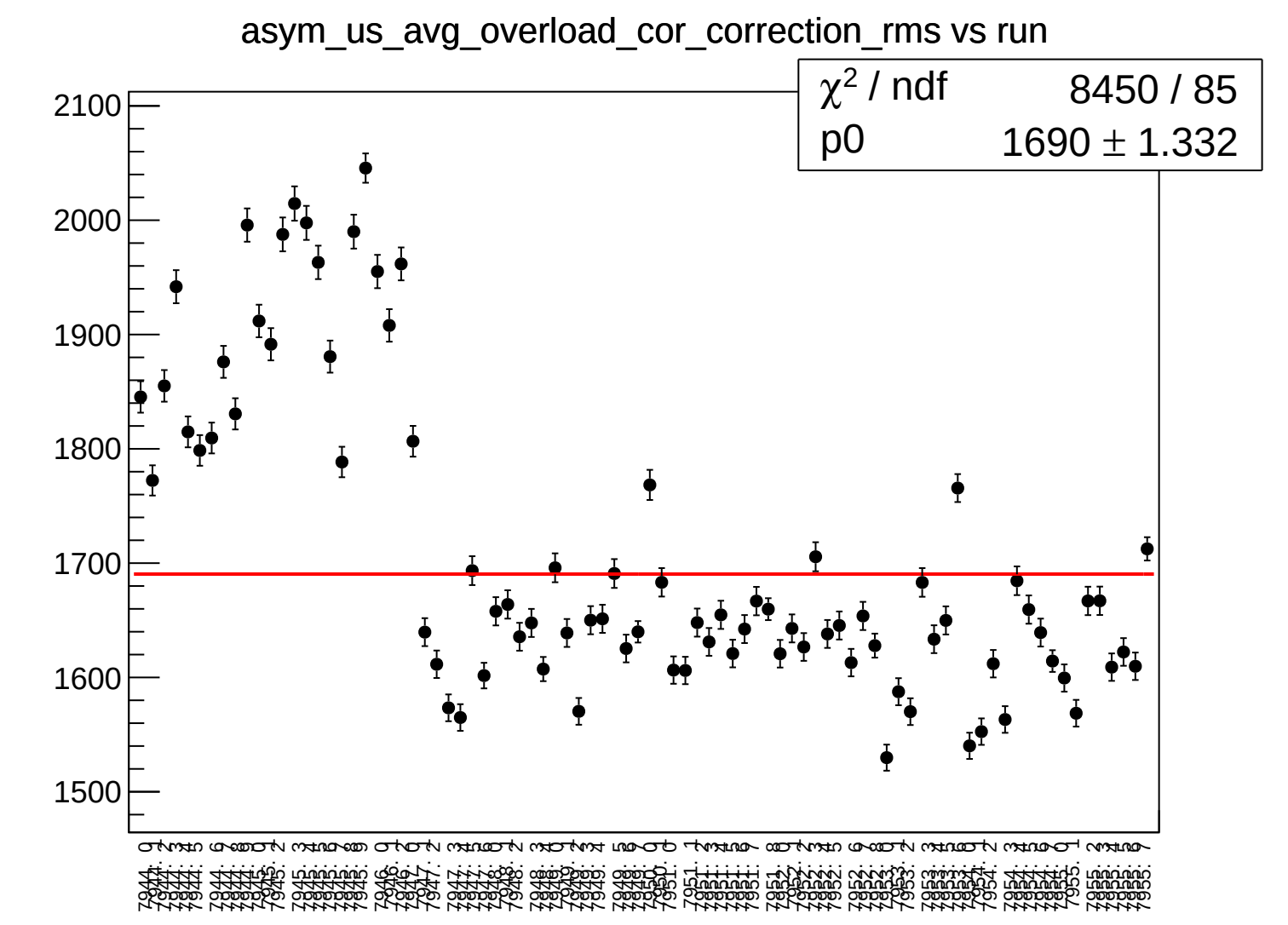
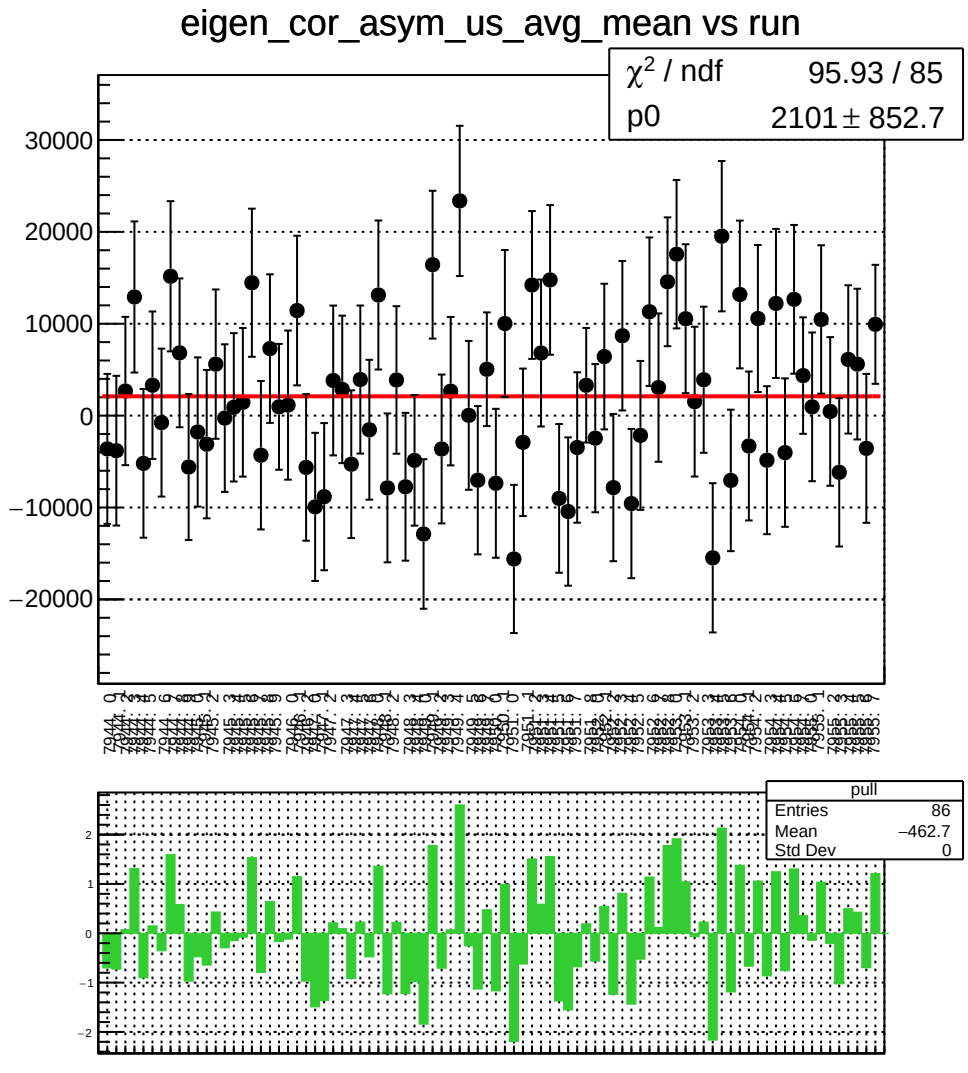
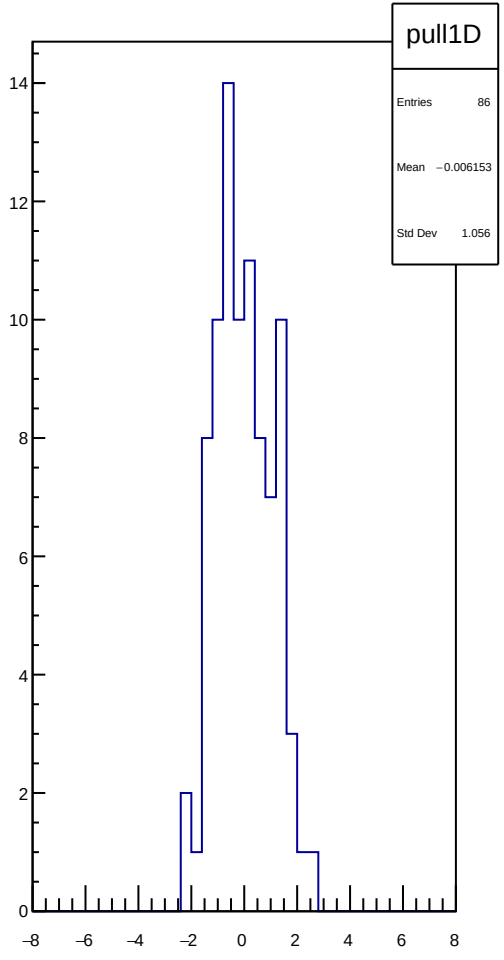
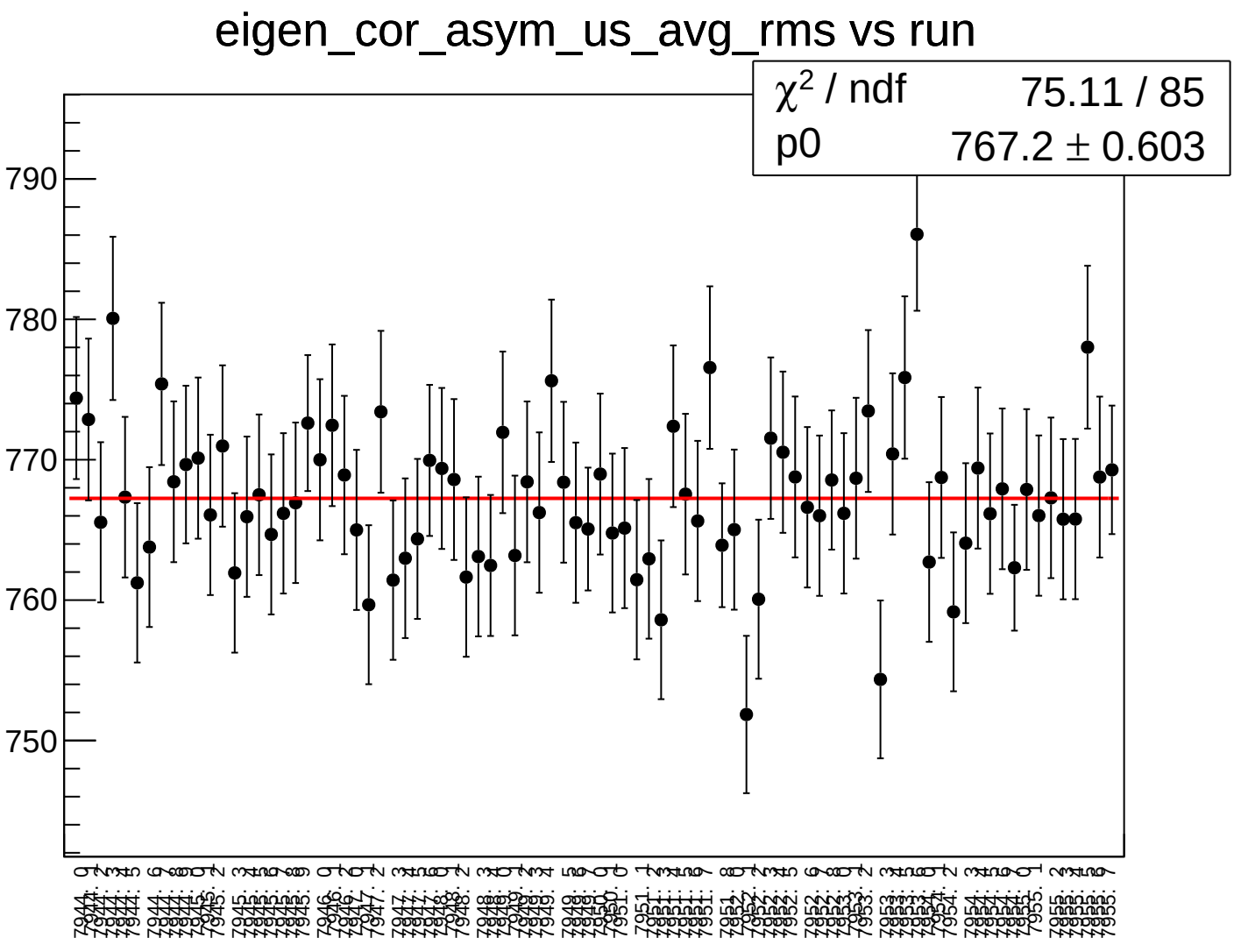
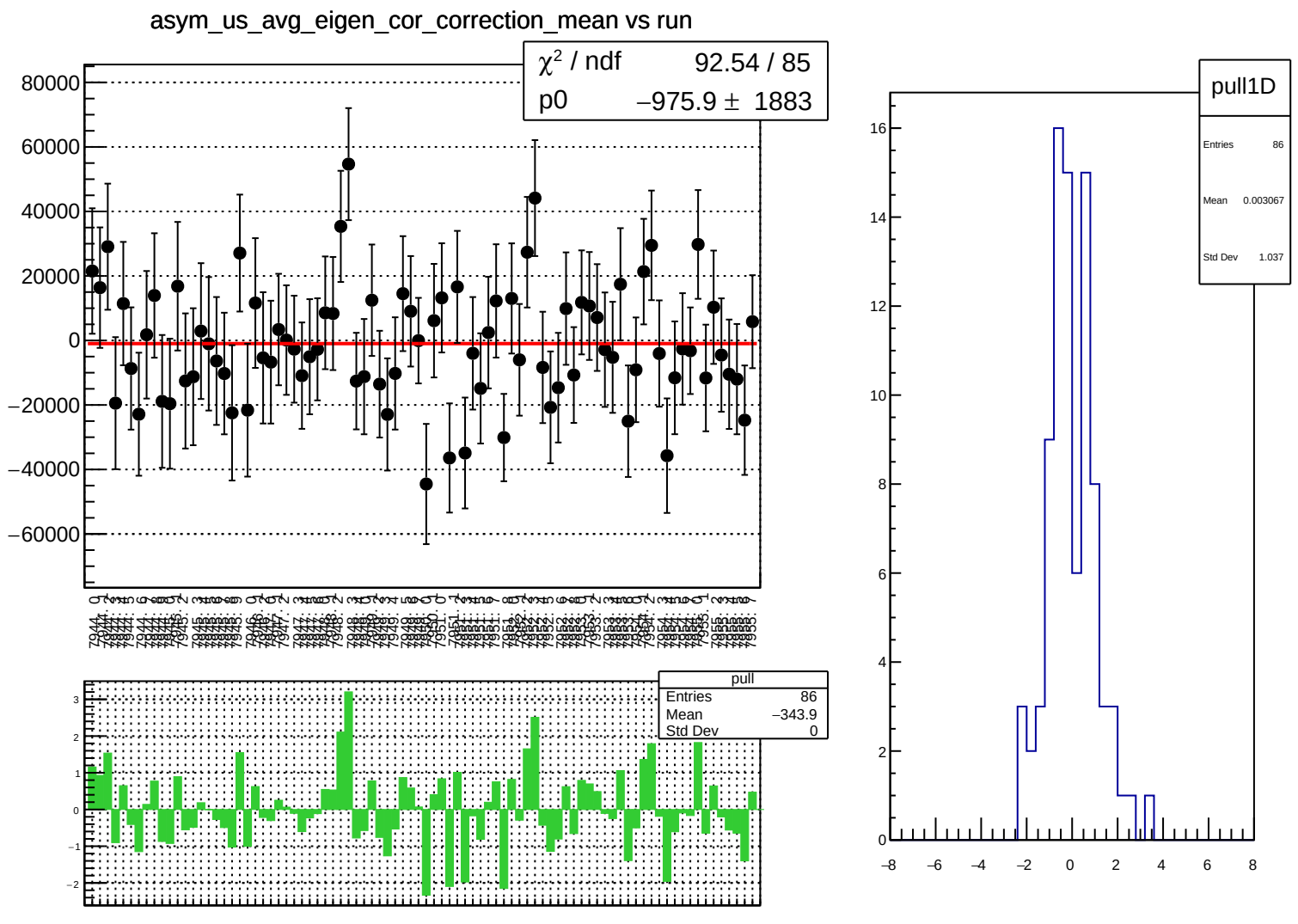
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

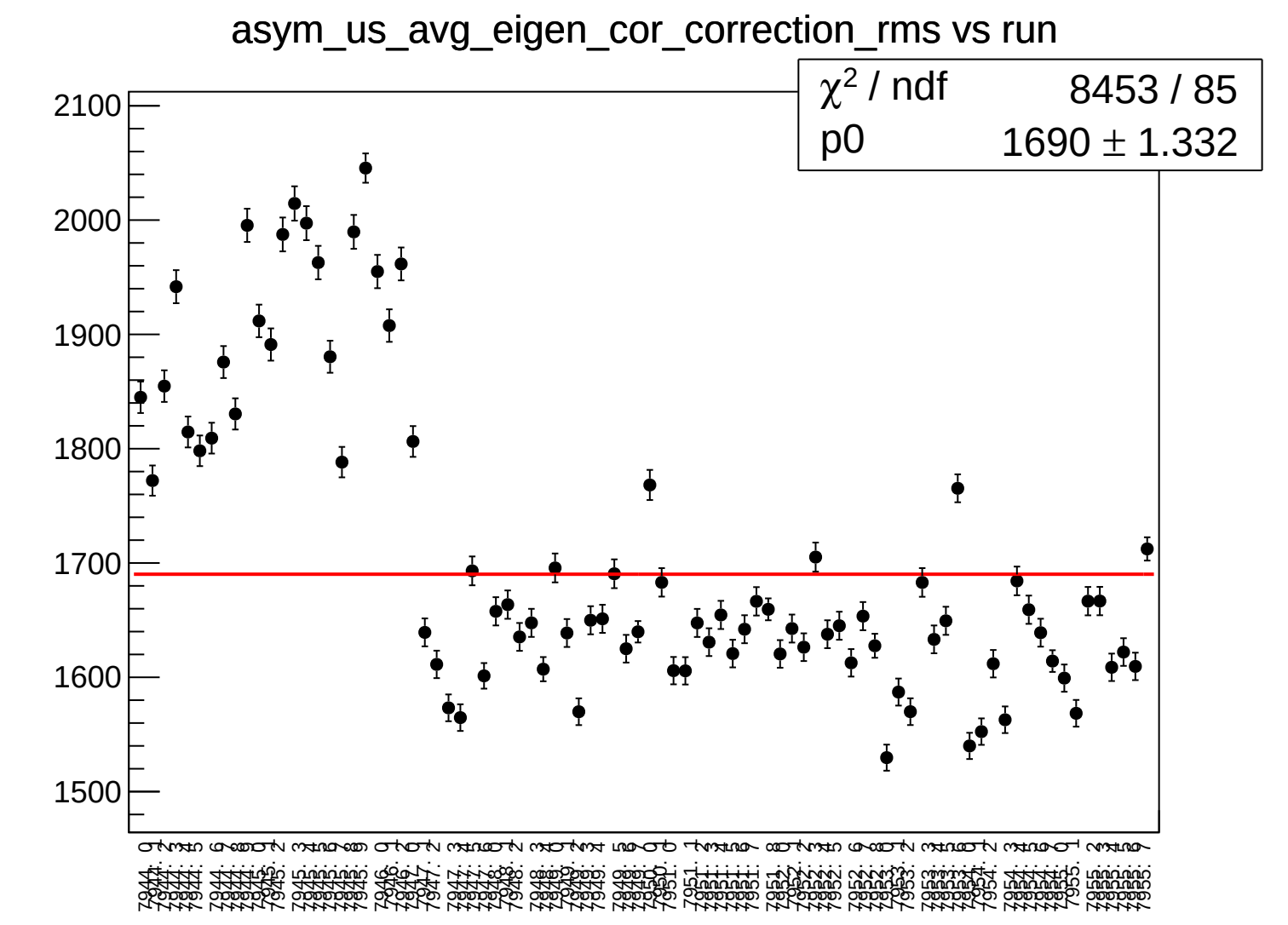

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 8450 / 85
p0 1690 ± 1.332
2100
2000
1900
1800
1700
1600
1500

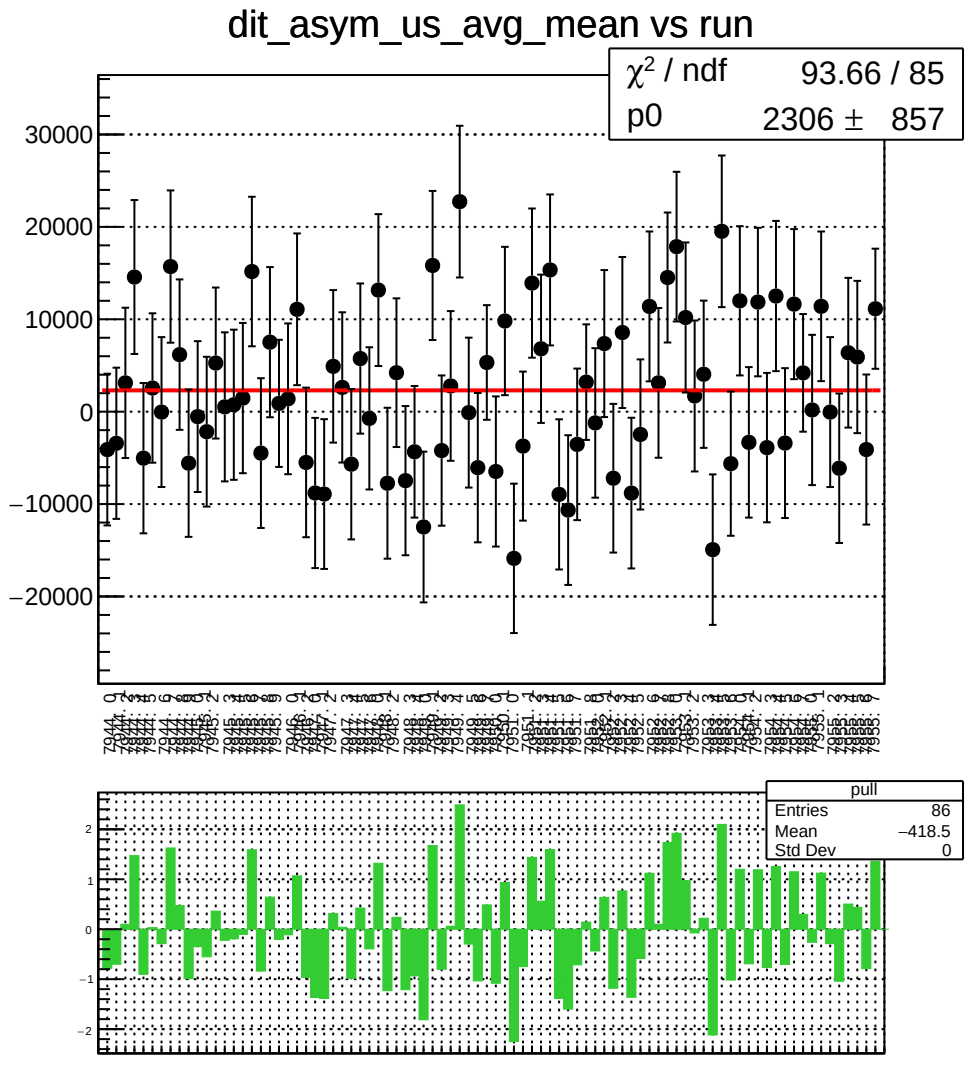

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 95.93 / 85
p0 2101 ± 852.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −462.7
Std Dev 0
2
1
0
−1
−2

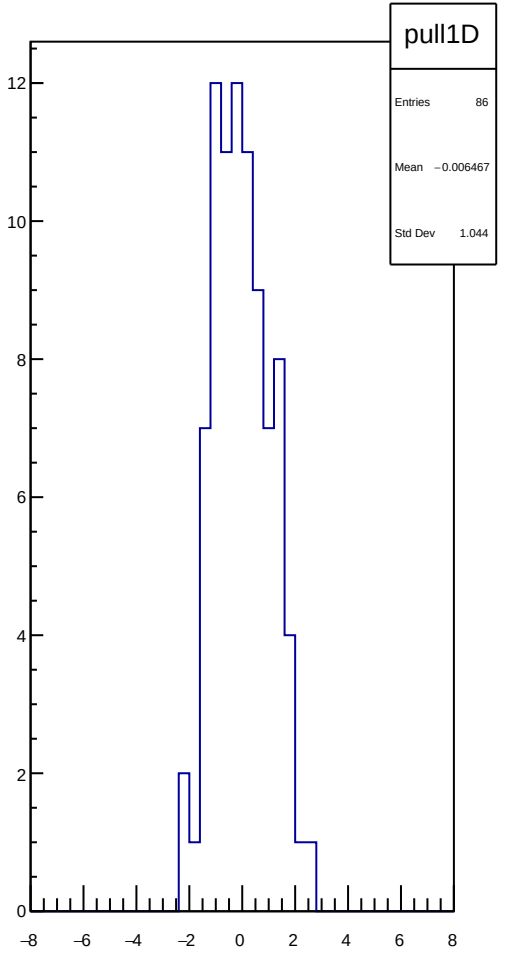

pull1D
Entries 86
Mean −0.006153
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

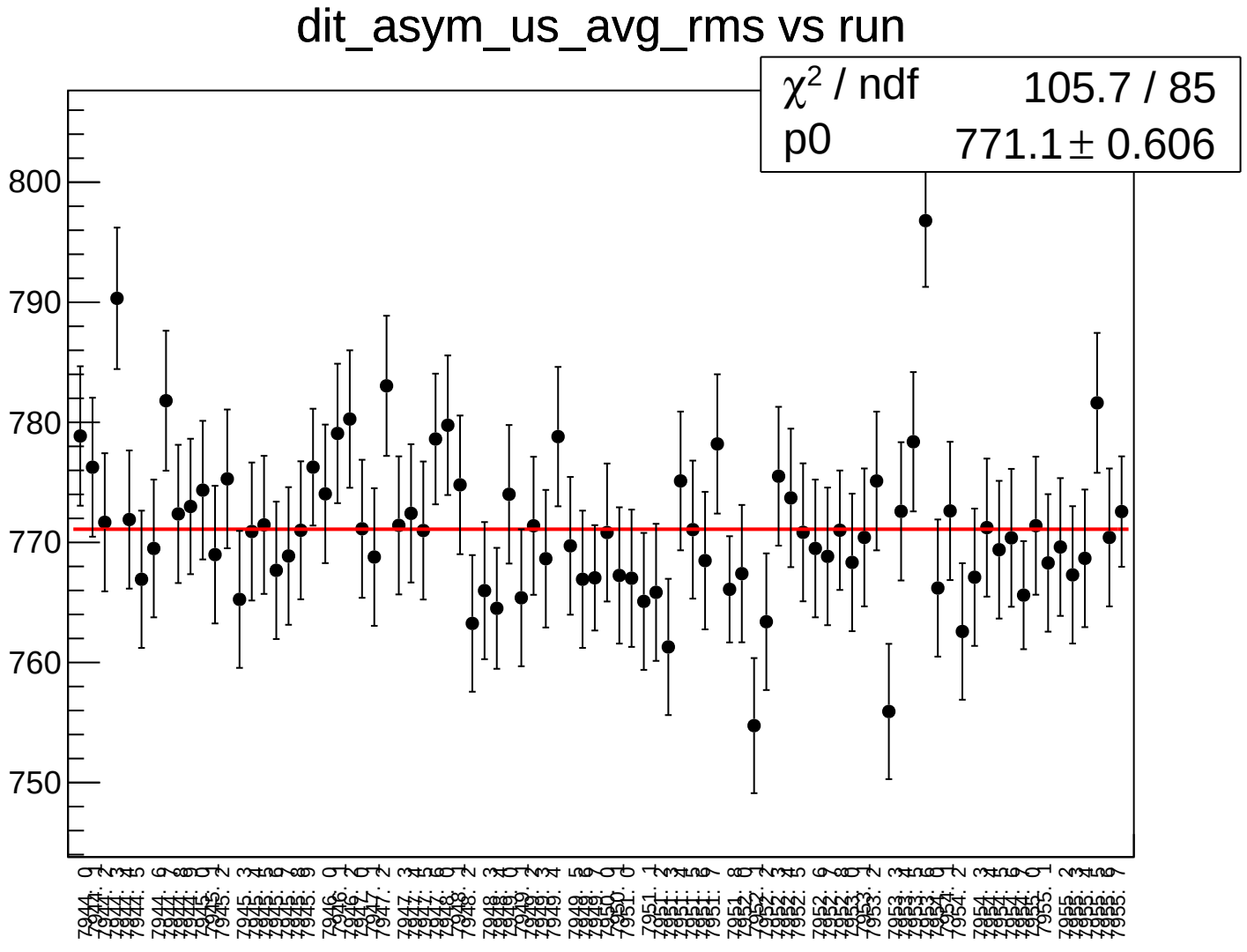

eigen_cor_asym_us_avg_rms vs run
χ^2 / ndf 75.11 / 85
p0 767.2 ± 0.603
790
780
770
760
750

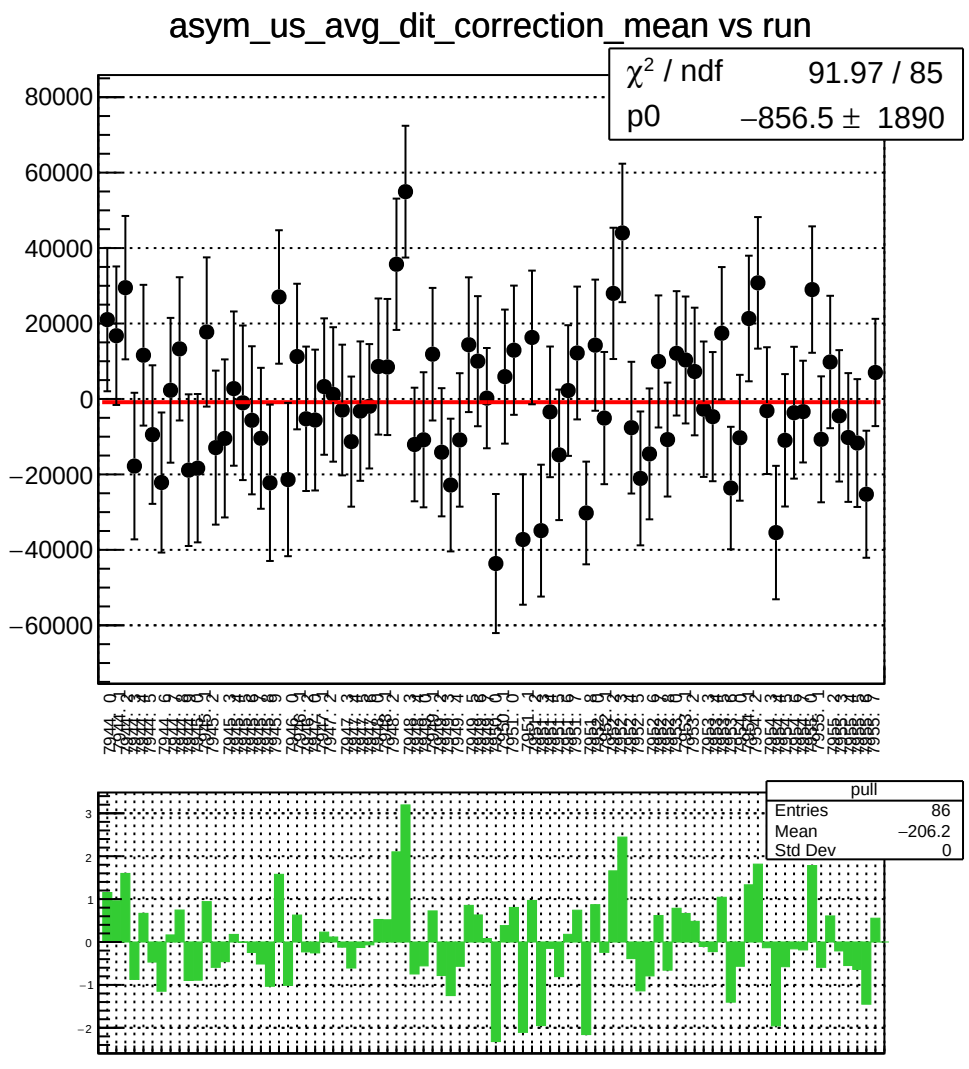

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.54 / 85
p0 −975.9 ± 1883
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −343.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.003067
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

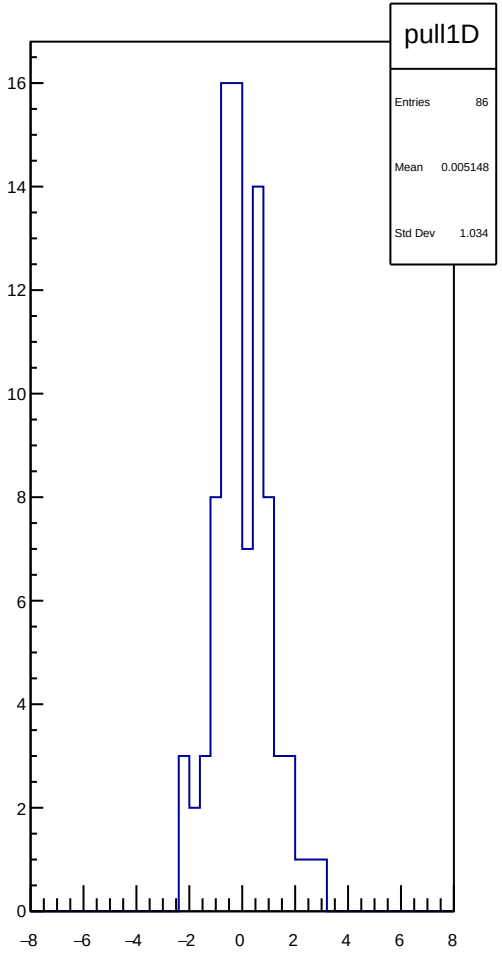

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 8453 / 85
p0 1690 ± 1.332
2100
2000
1900
1800
1700
1600
1500

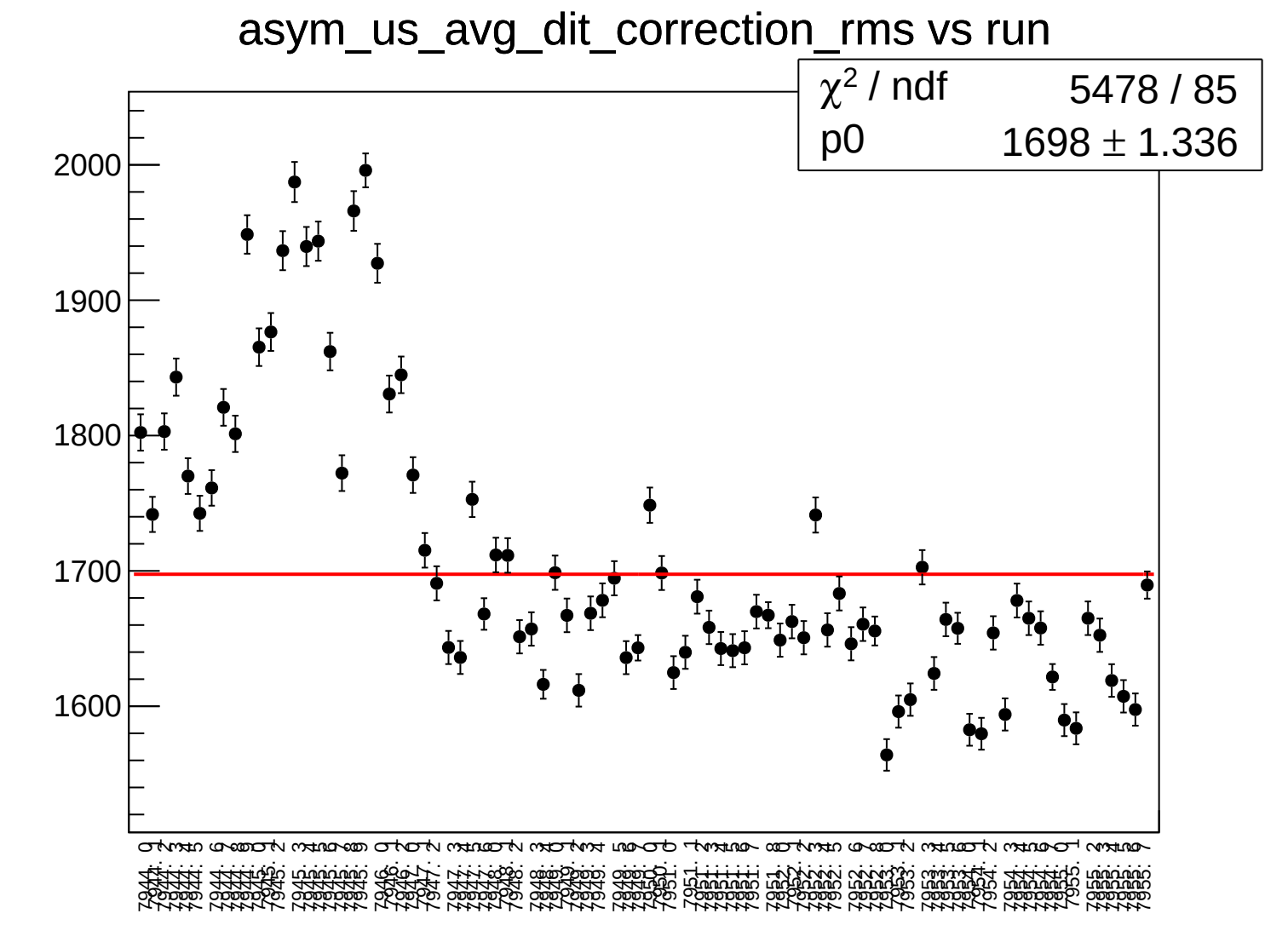

dit_asym_us_avg_mean vs run
χ² / ndf 93.66 / 85
p0 2306 ± 857
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −418.5
Std Dev 0
2
1
0
−1
−2

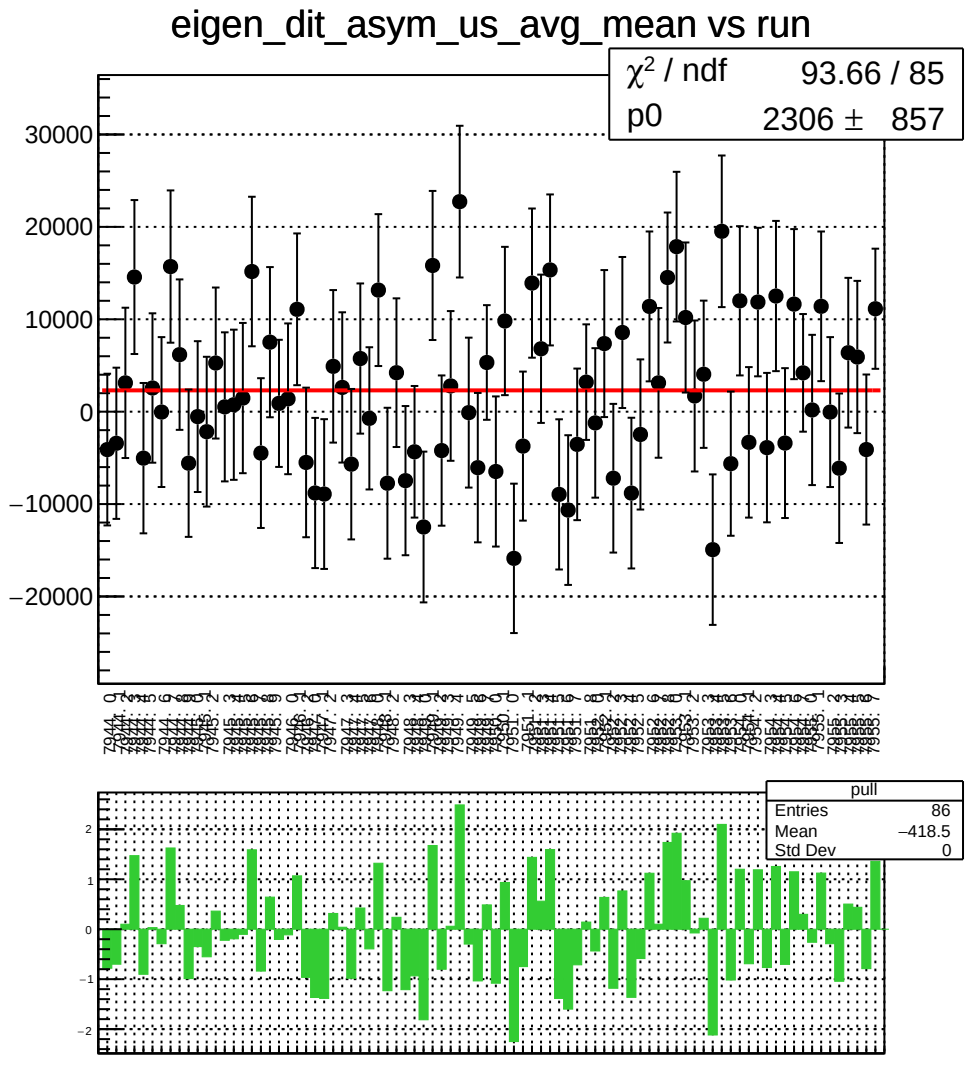

pull1D
Entries 86
Mean −0.006467
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

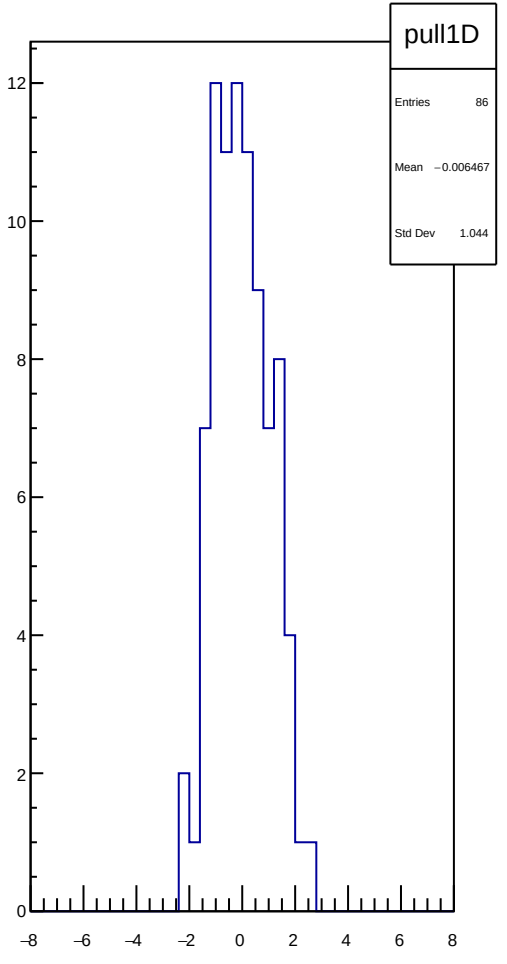

dit_asym_us_avg_rms vs run
χ^2 / ndf 105.7 / 85
p0 771.1 ± 0.606
800
790
780
770
760
750

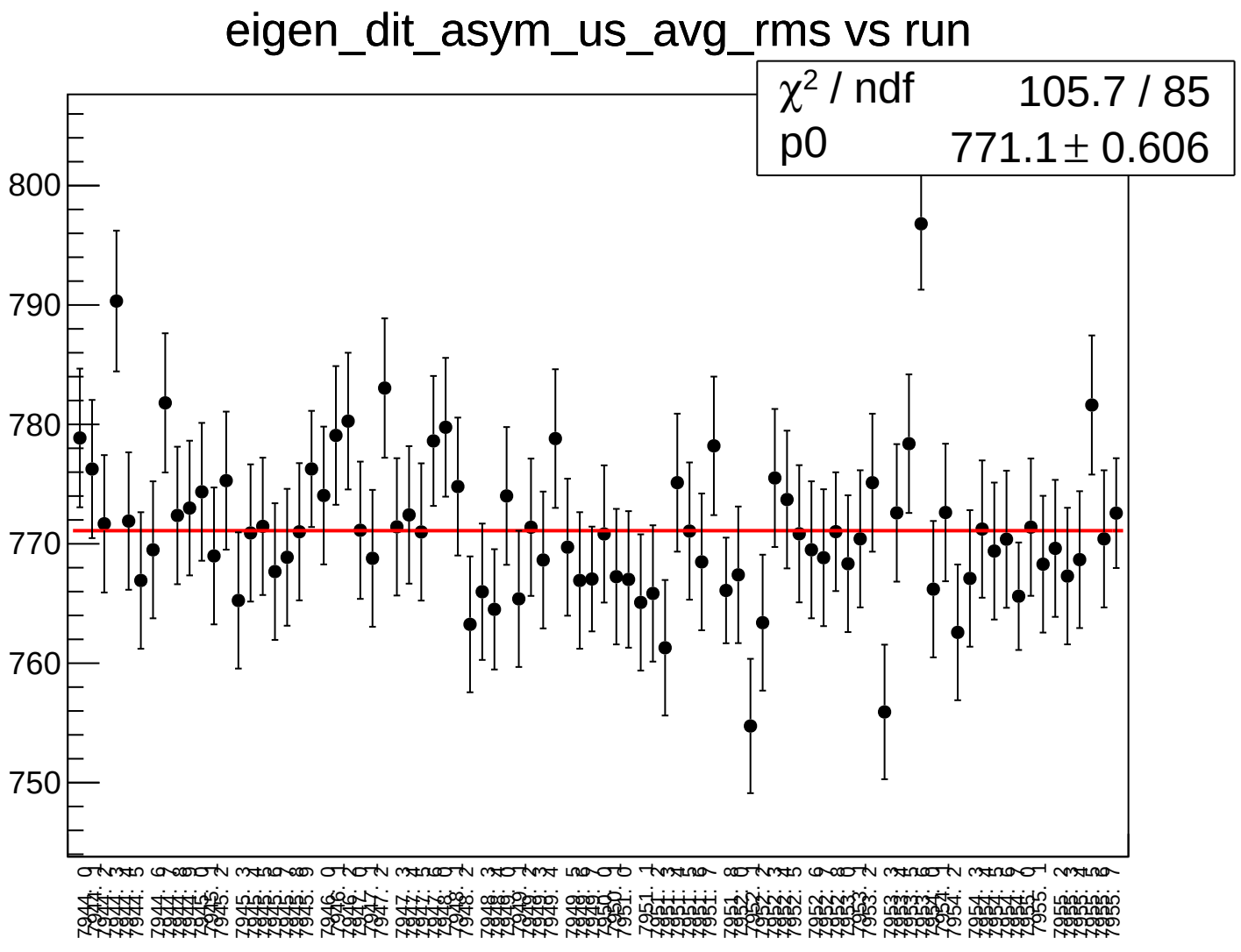

asym_us_avg_dit_correction_mean vs run
χ² / ndf 91.97 / 85
p0 −856.5 ± 1890
pull
Entries 86
Mean −206.2
Std Dev 0

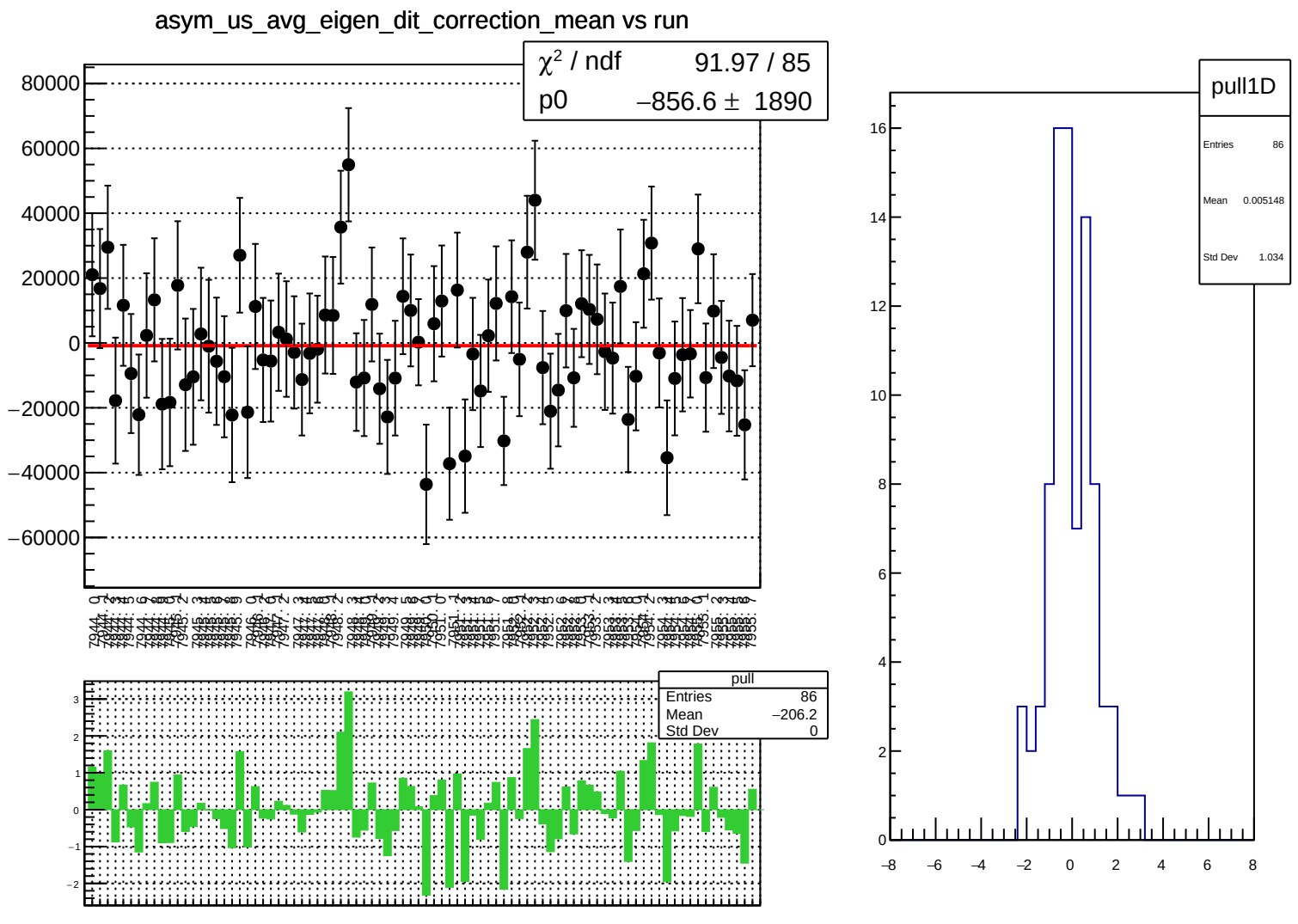

pull1D
Entries 86
Mean 0.005148
Std Dev 1.034

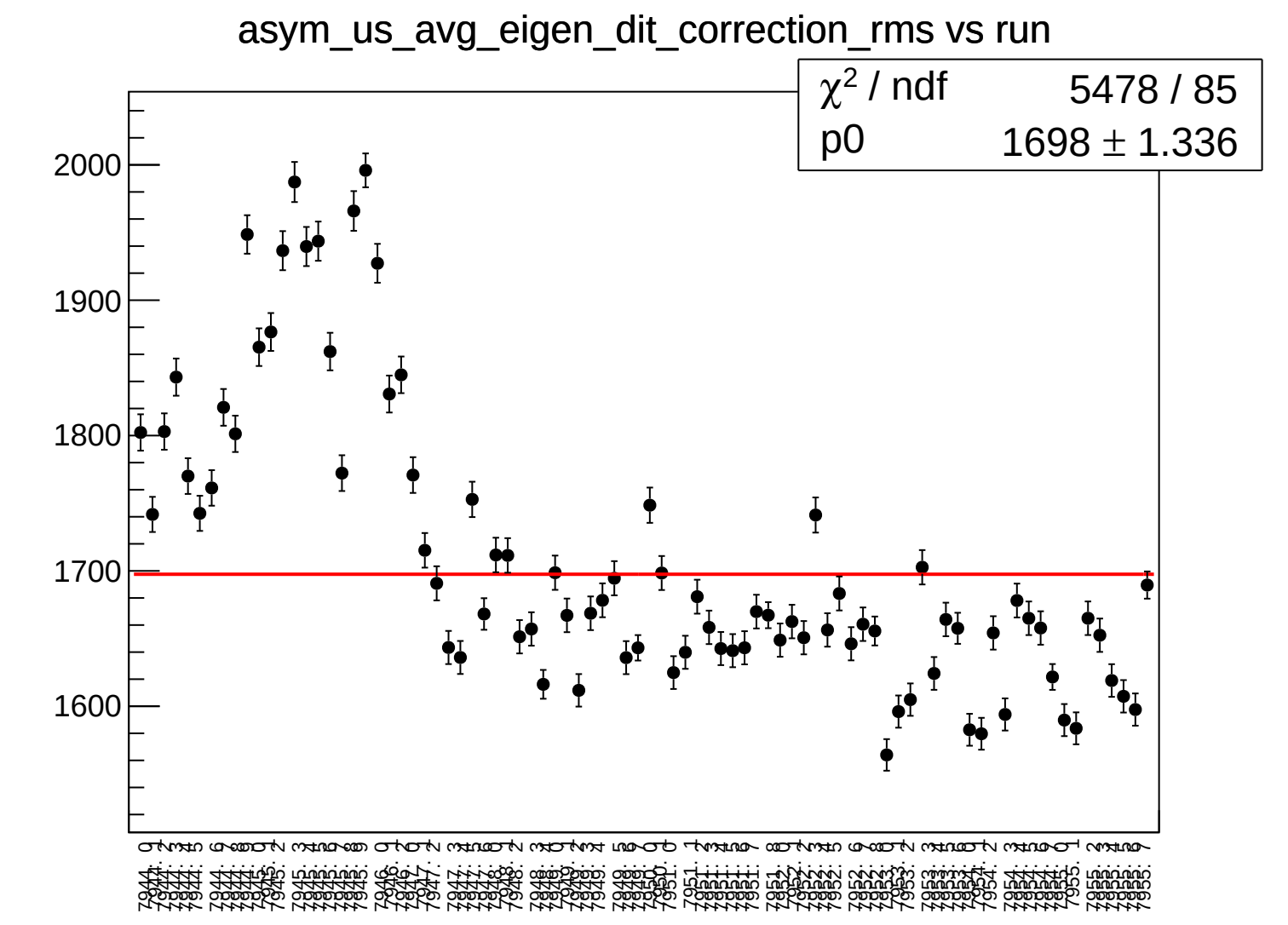

asym_us_avg_dit_correction_rms vs run
χ² / ndf 5478 / 85
p0 1698 ± 1.336
2000
1900
1800
1700
1600

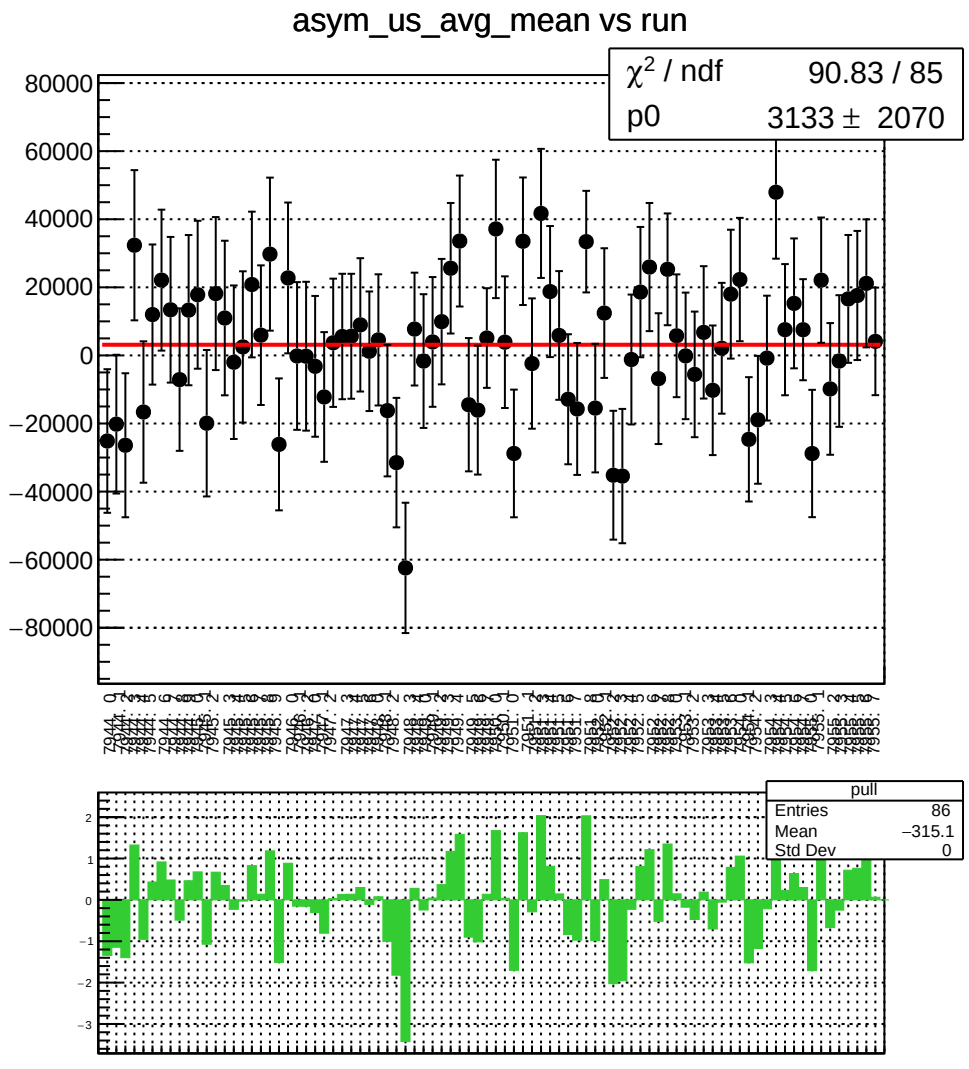

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 93.66 / 85
p0 2306 ± 857
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −418.5
Std Dev 0
2
1
0
−1
−2

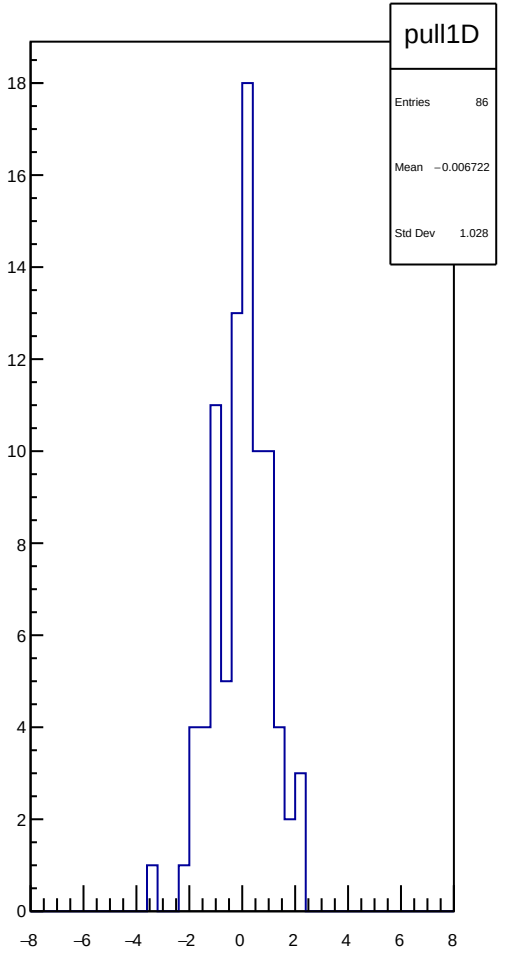

pull1D
Entries 86
Mean −0.006467
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

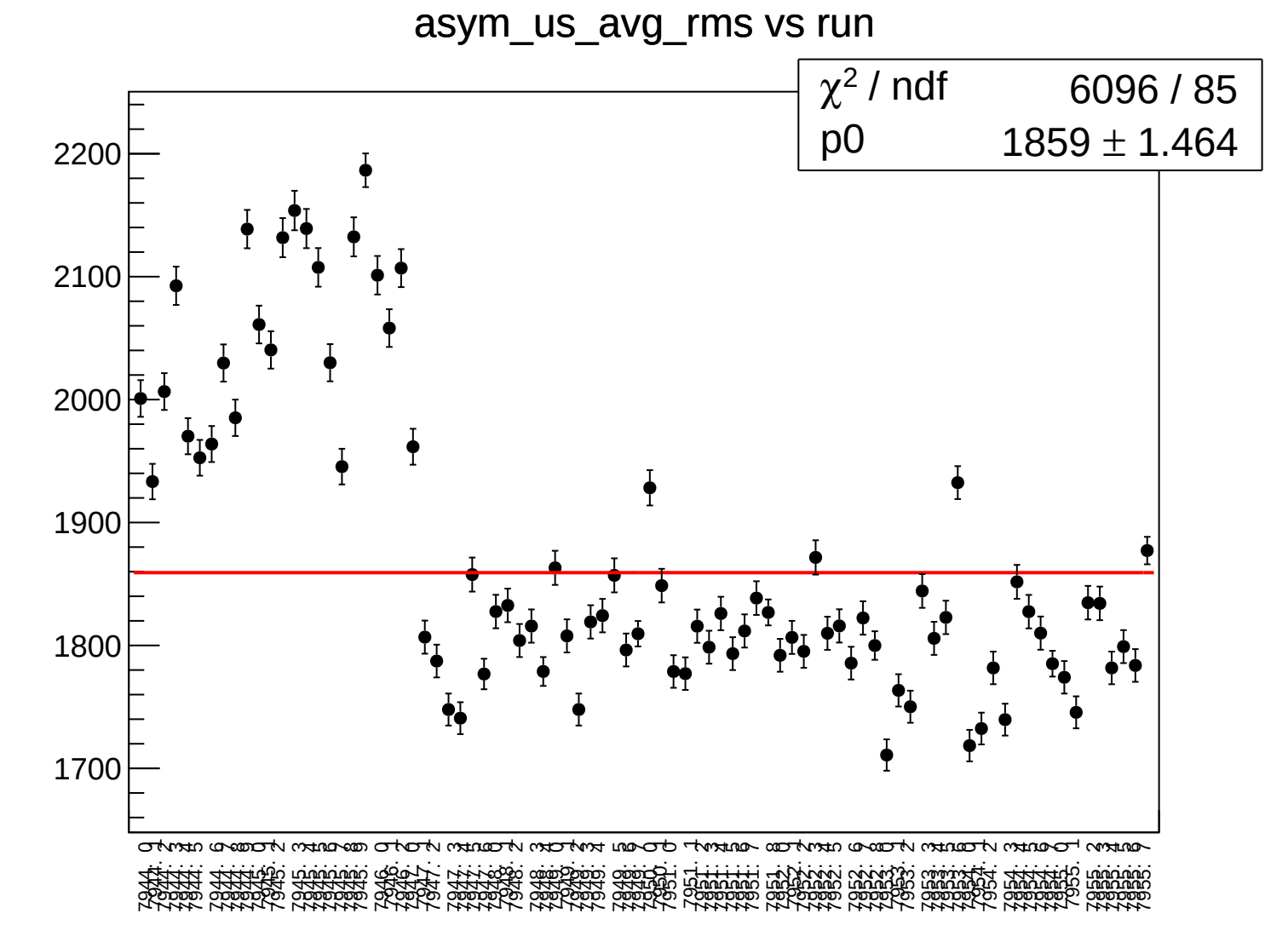

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 105.7 / 85
p0 771.1 ± 0.606
800
790
780
770
760
750

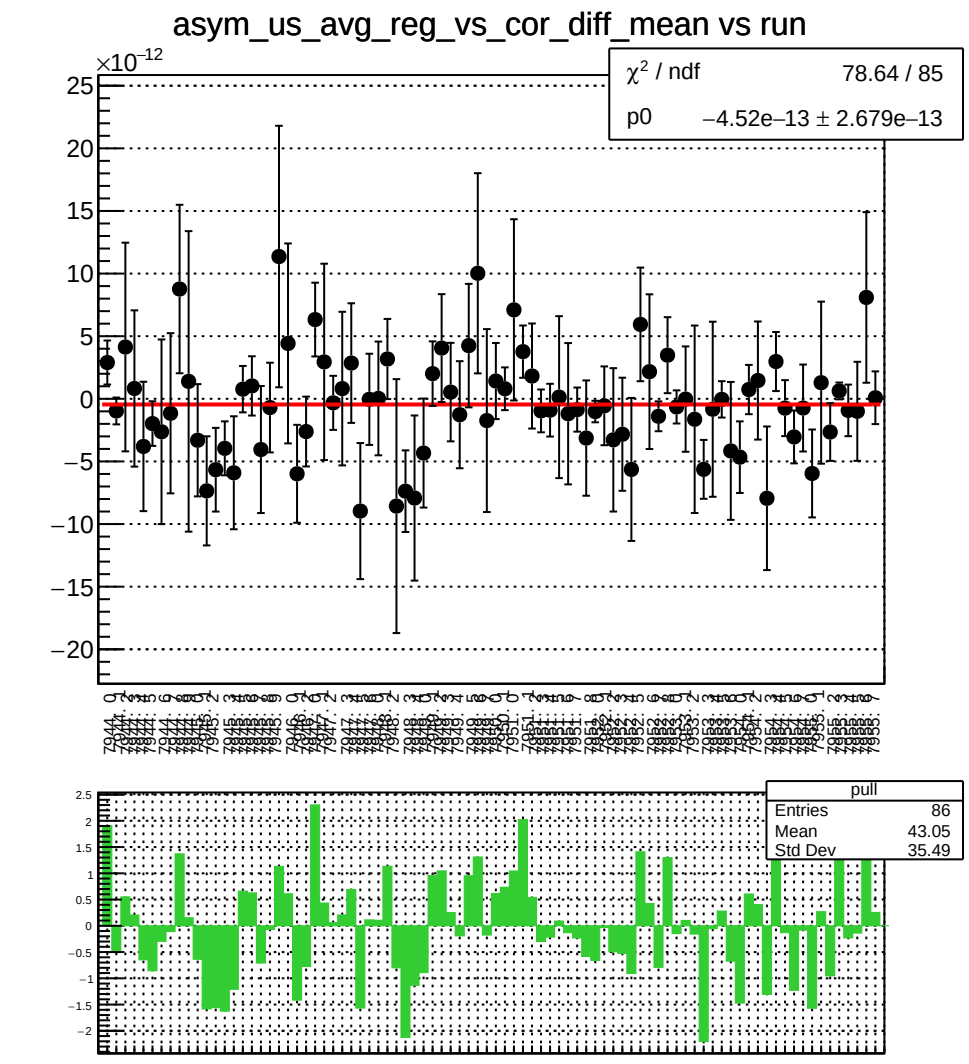

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.97 / 85
p0 −856.6 ± 1890
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −206.2
Std Dev 0
pull1D
Entries 86
Mean 0.005148
Std Dev 1.034

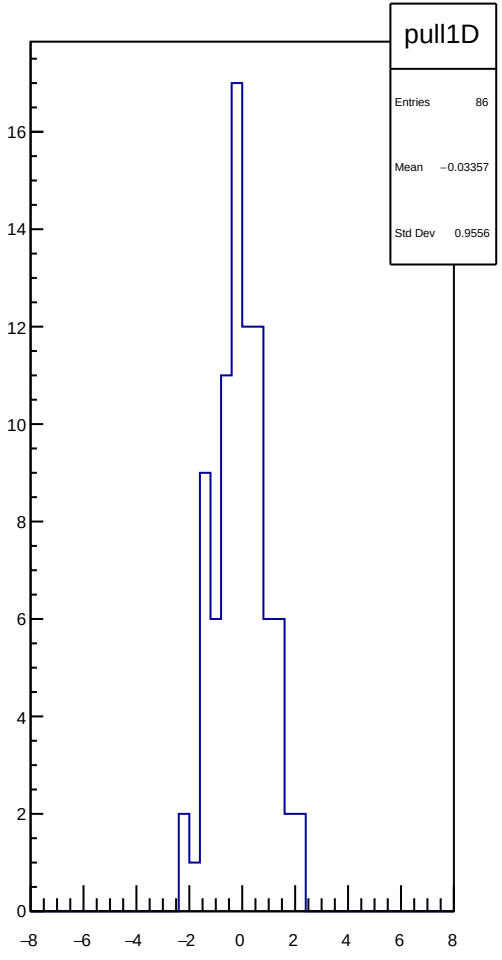

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 5478 / 85
p0 1698 ± 1.336
2000
1900
1800
1700
1600

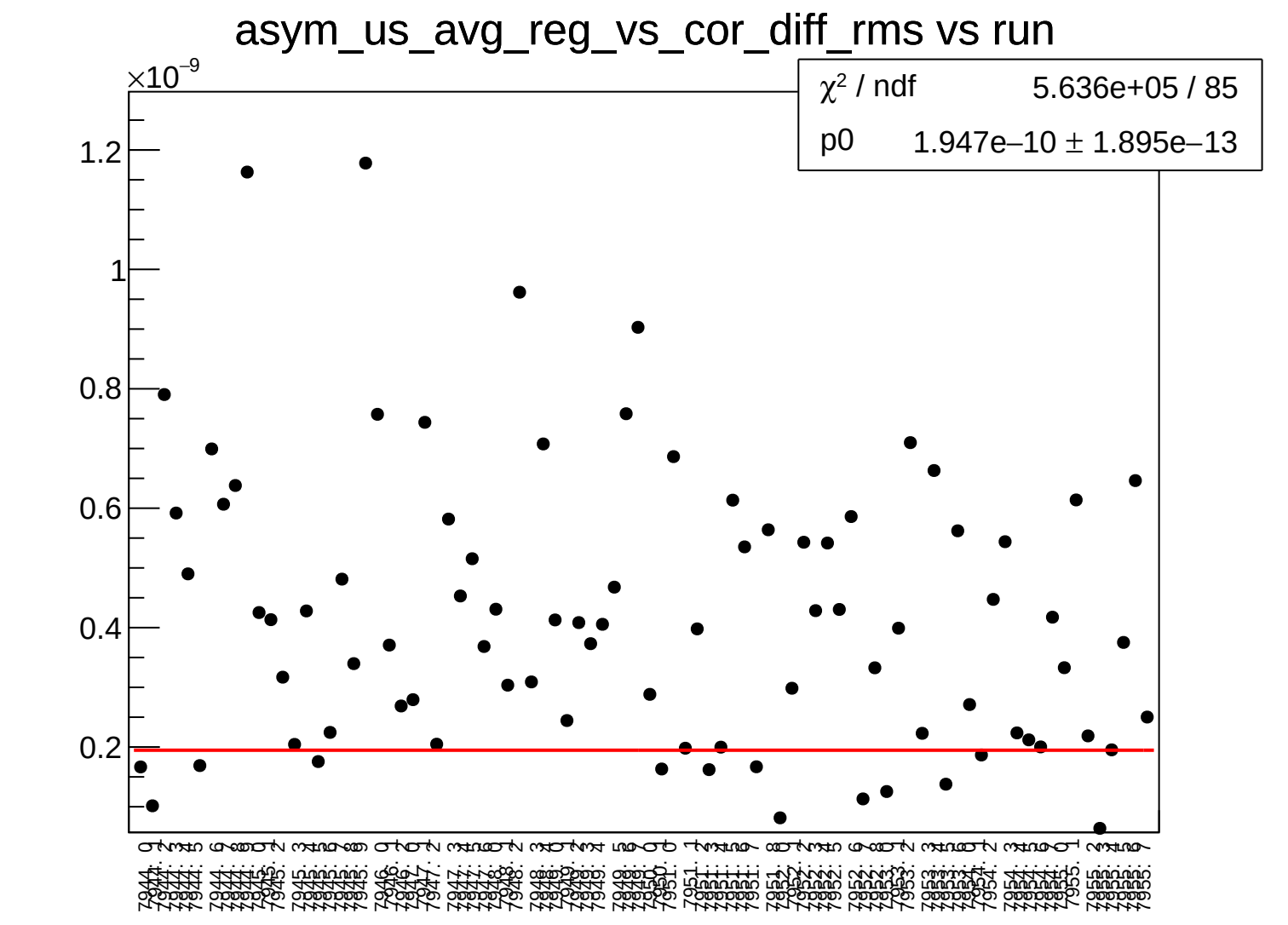

asym_us_avg_mean vs run
χ² / ndf 90.83 / 85
p0 3133 ± 2070
pull
Entries 86
Mean −315.1
Std Dev 0

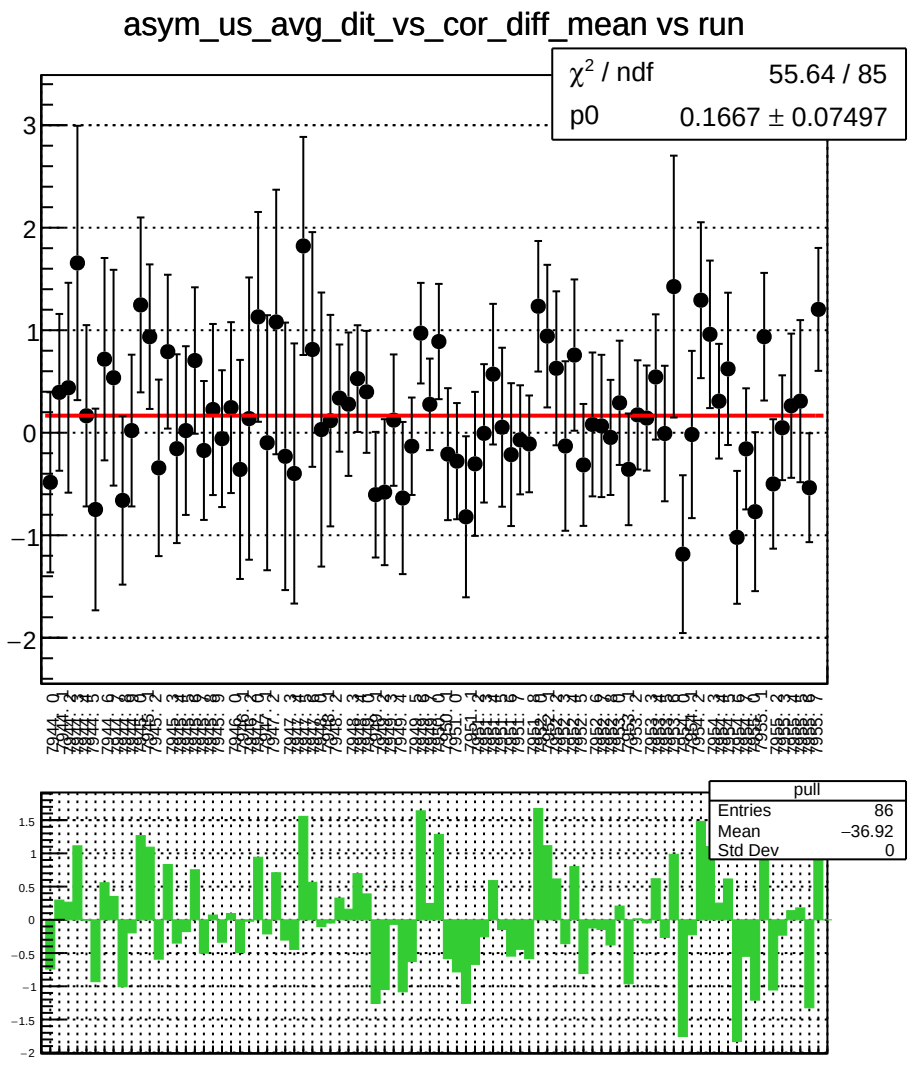

pull1D
Entries 86
Mean −0.006722
Std Dev 1.028

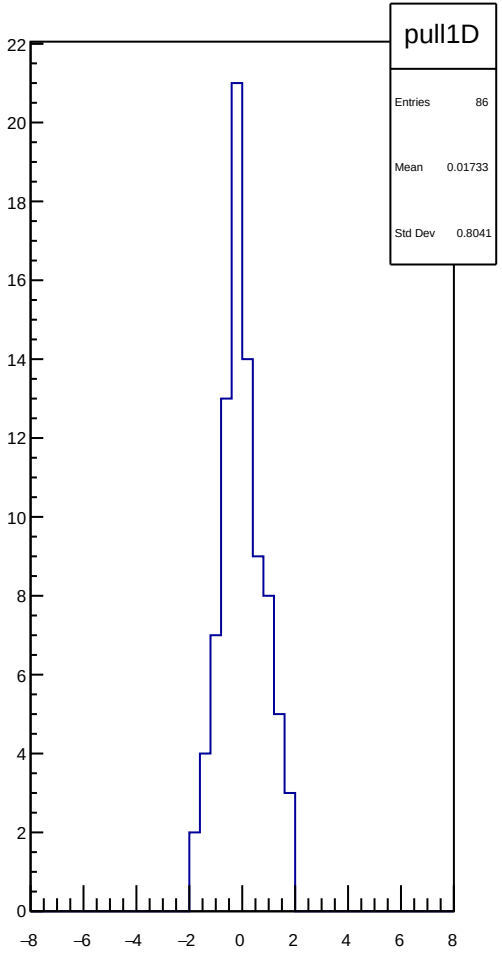

asym_us_avg_rms vs run
χ^2 / ndf 6096 / 85
p0 1859 ± 1.464
2200
2100
2000
1900
1800
1700

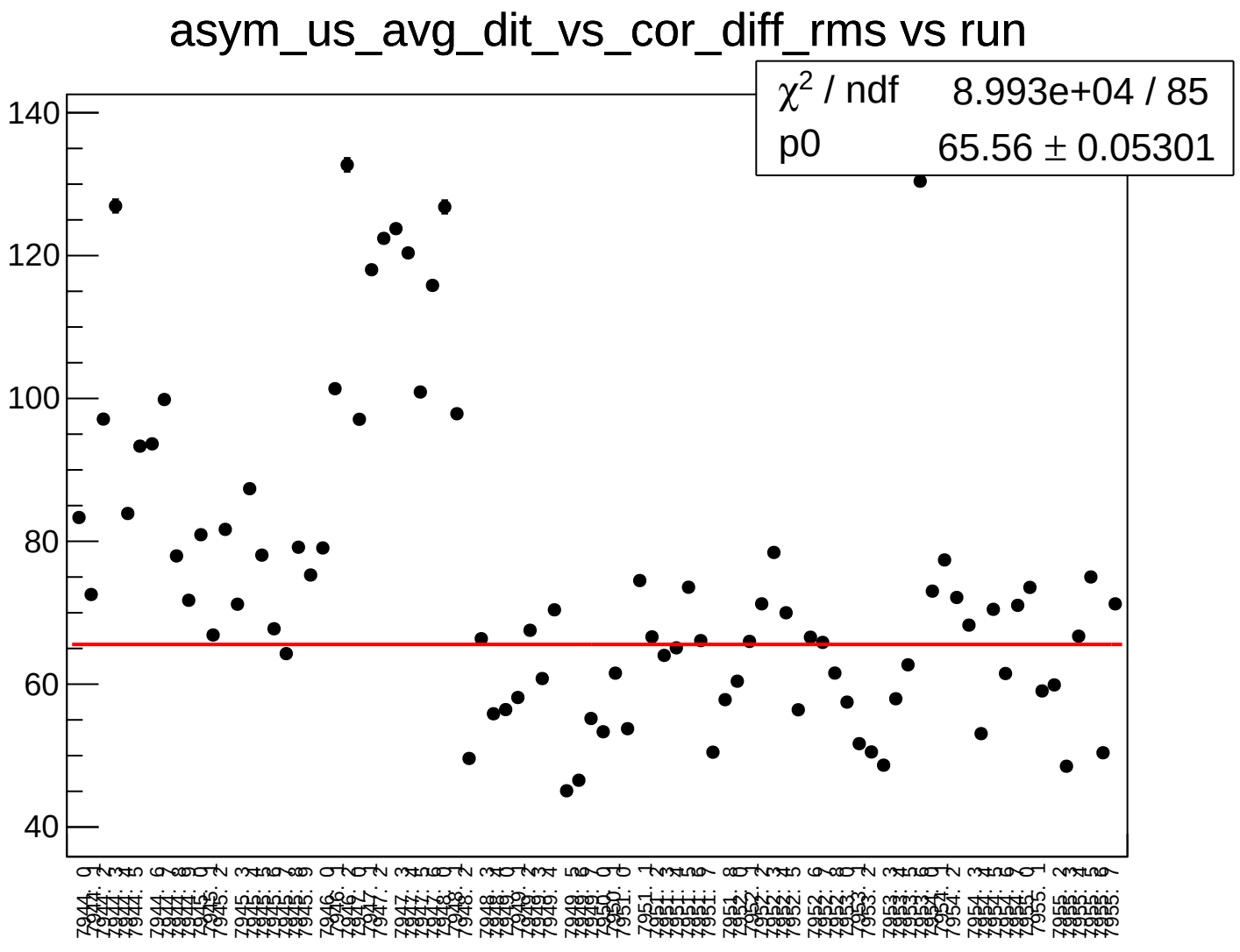

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.64 / 85
p0 −4.52e−13 ± 2.679e−13
pull
Entries 86
Mean 43.05
Std Dev 35.49

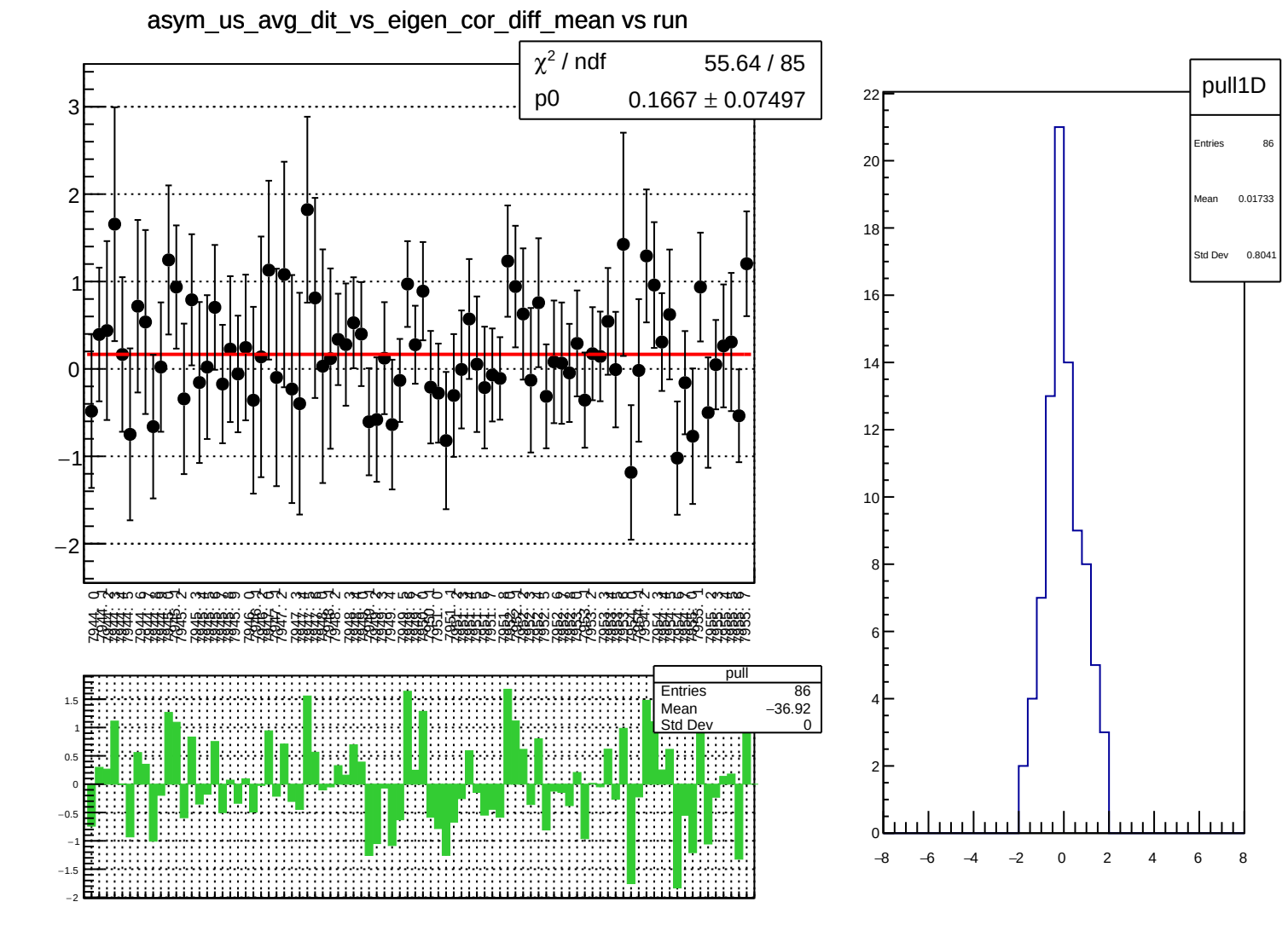

pull1D
Entries 86
Mean −0.03357
Std Dev 0.9556

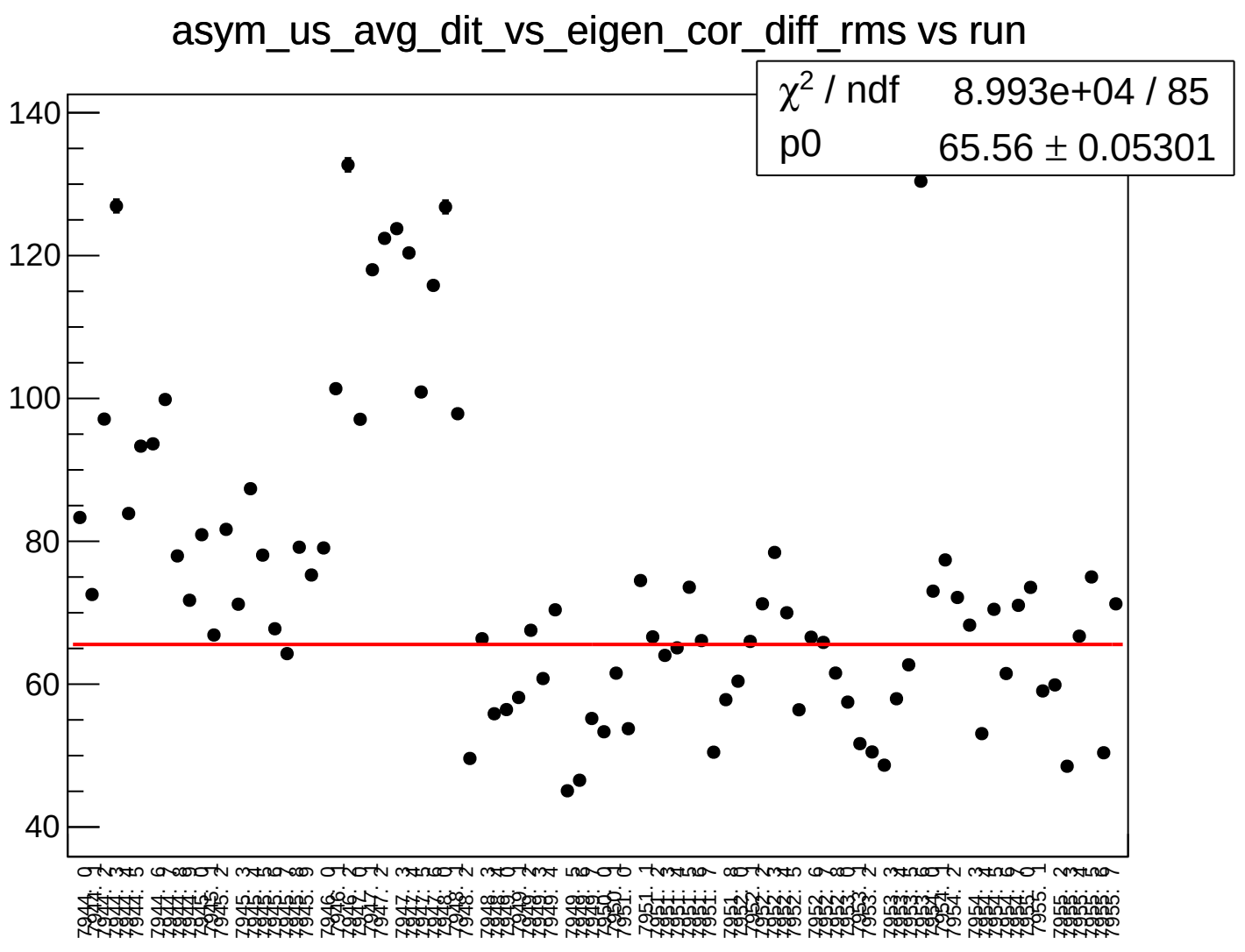

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.636e+05 / 85
p0 1.947e−10 ± 1.895e−13
1.2
1
0.8
0.6
0.4
0.2

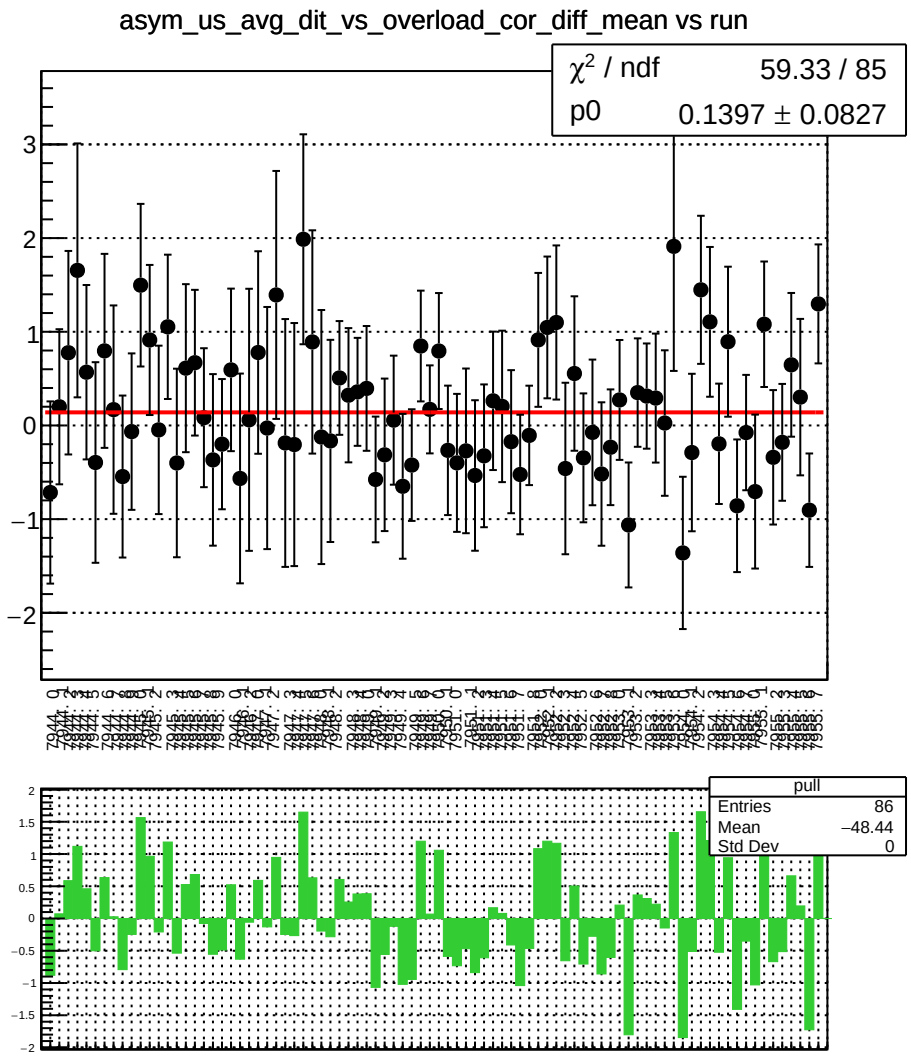

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 55.64 / 85
p0 0.1667 ± 0.07497
pull
Entries 86
Mean −36.92
Std Dev 0

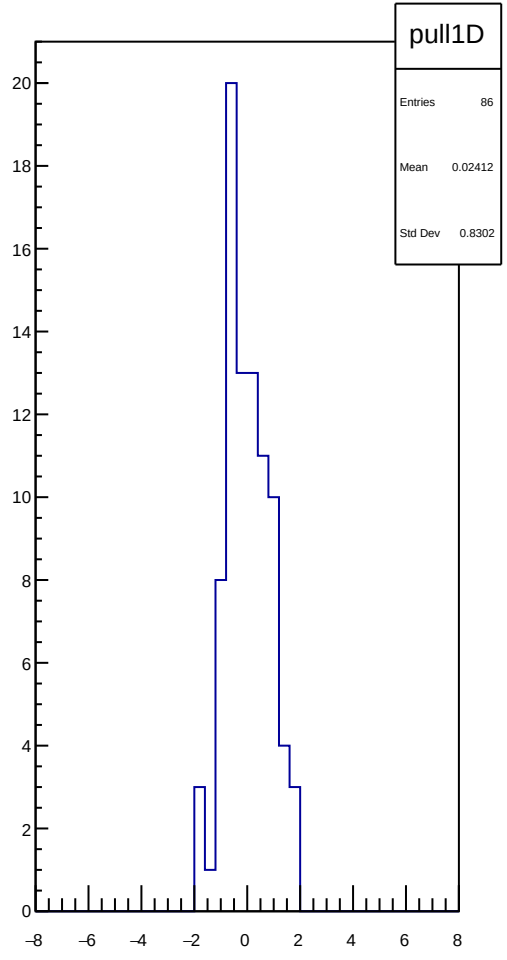

pull1D
Entries 86
Mean 0.01733
Std Dev 0.8041

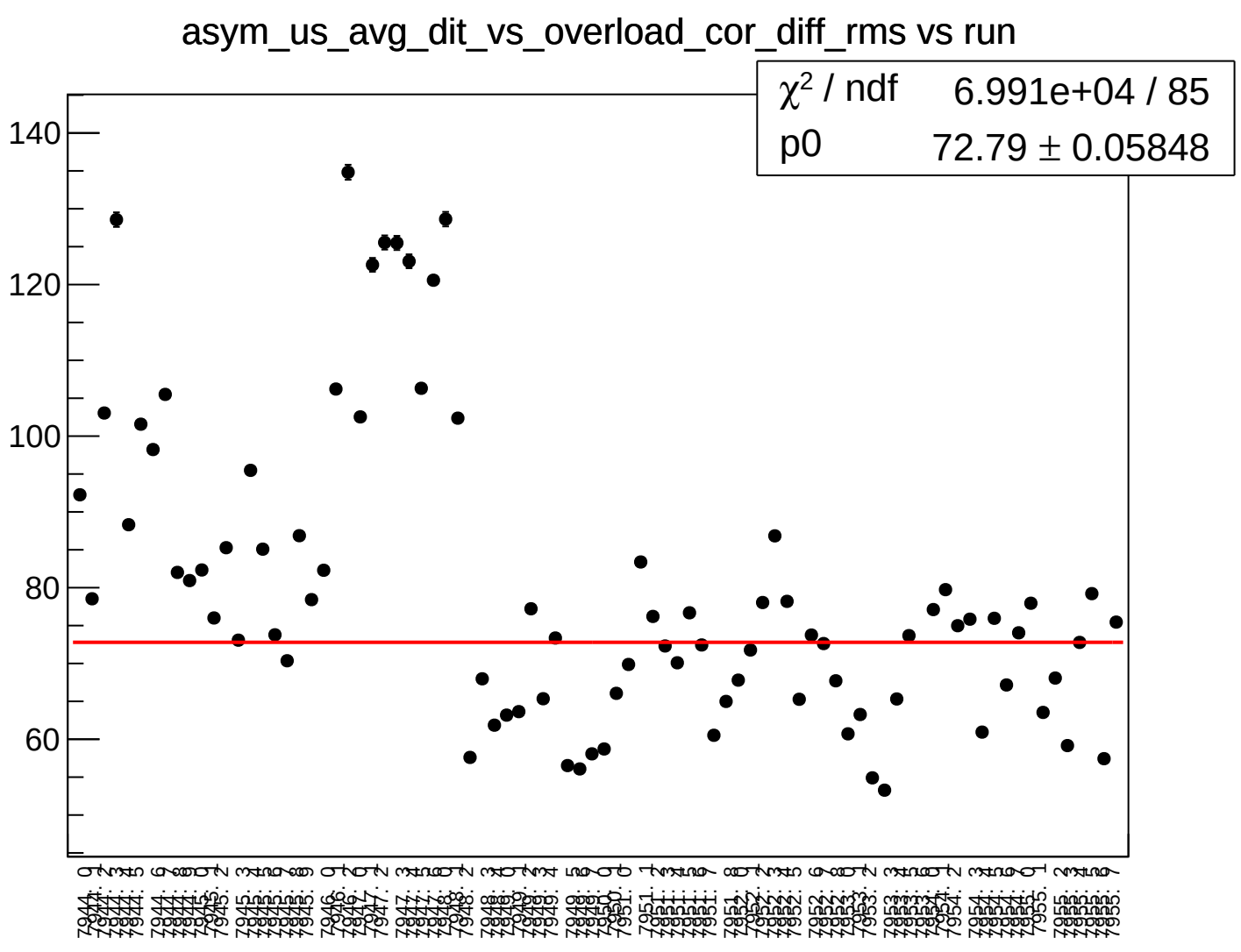

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.993e+04 / 85
p0 65.56 ± 0.05301
140
120
100
80
60
40

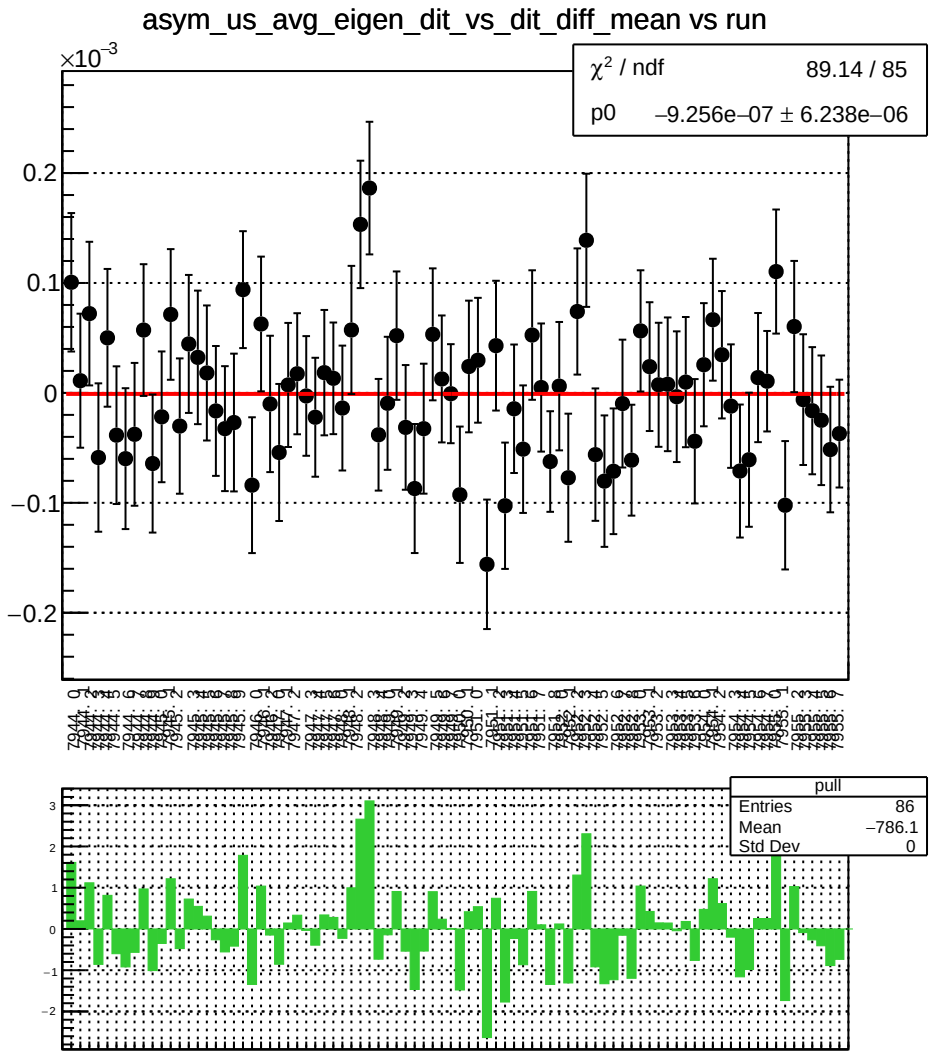

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.64 / 85
p0 0.1667 ± 0.07497
pull
Entries 86
Mean −36.92
Std Dev 0
pull1D
Entries 86
Mean 0.01733
Std Dev 0.8041

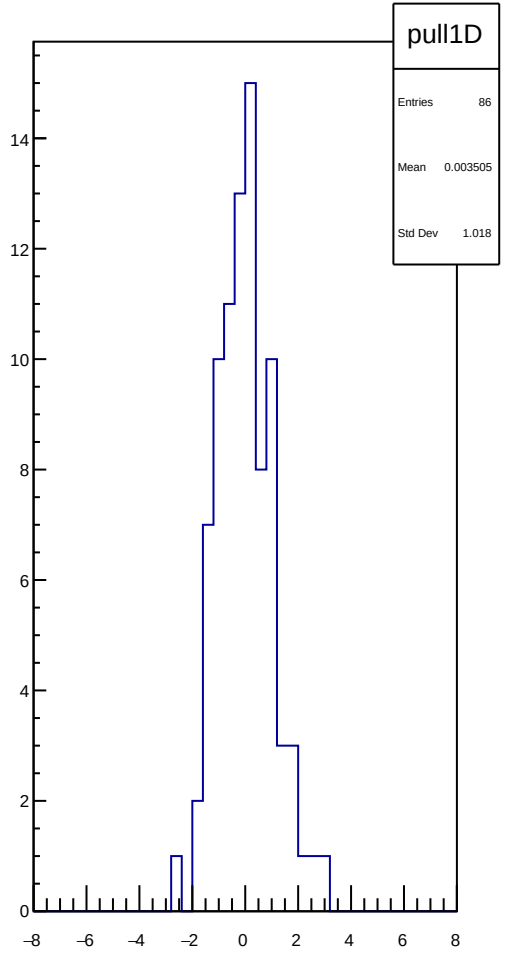

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.993e+04 / 85
p0 65.56 ± 0.05301
140
120
100
80
60
40

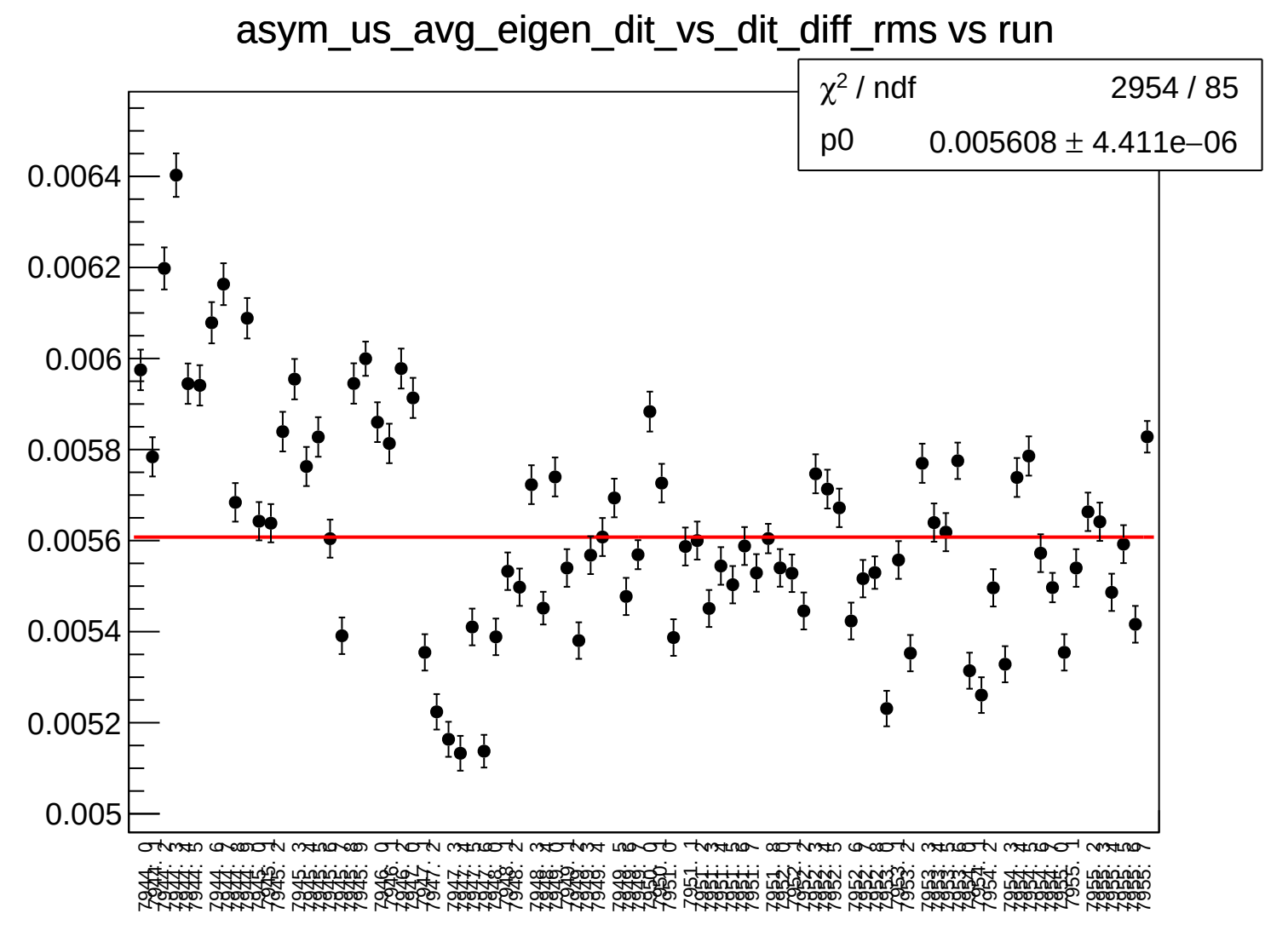

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 59.33 / 85
p0 0.1397 ± 0.0827
pull
Entries 86
Mean −48.44
Std Dev 0


pull1D
Entries 86
Mean 0.02412
Std Dev 0.8302

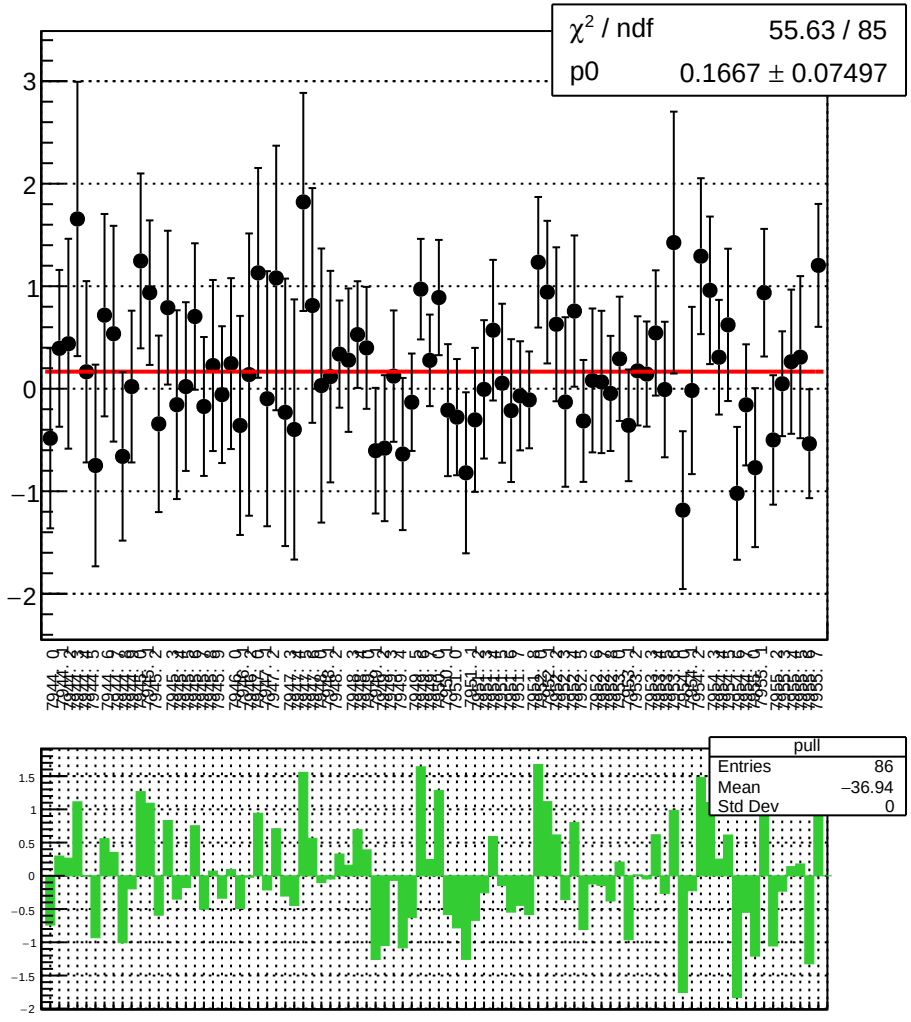

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.991e+04 / 85
p0 72.79 ± 0.05848
140
120
100
80
60

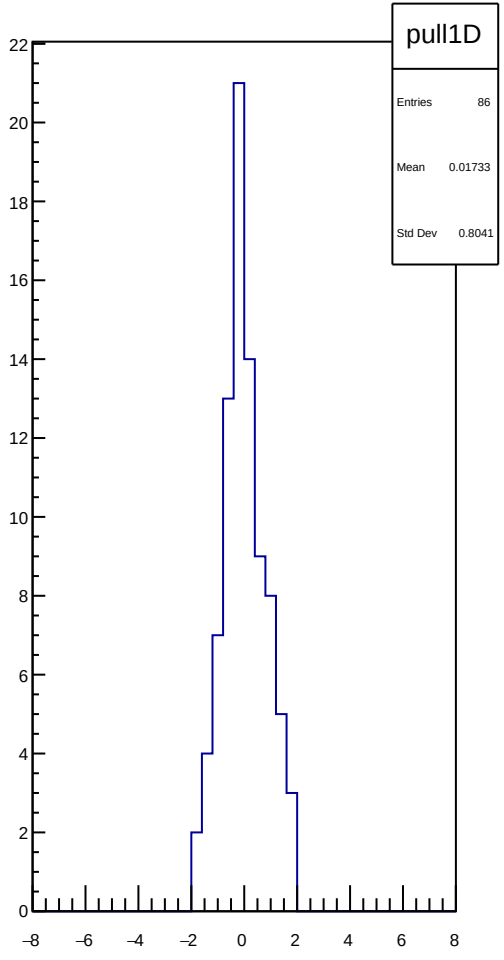

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.14 / 85
p0 −9.256e−07 ± 6.238e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean −786.1
Std Dev 0
3
2
1
0
−1
−2

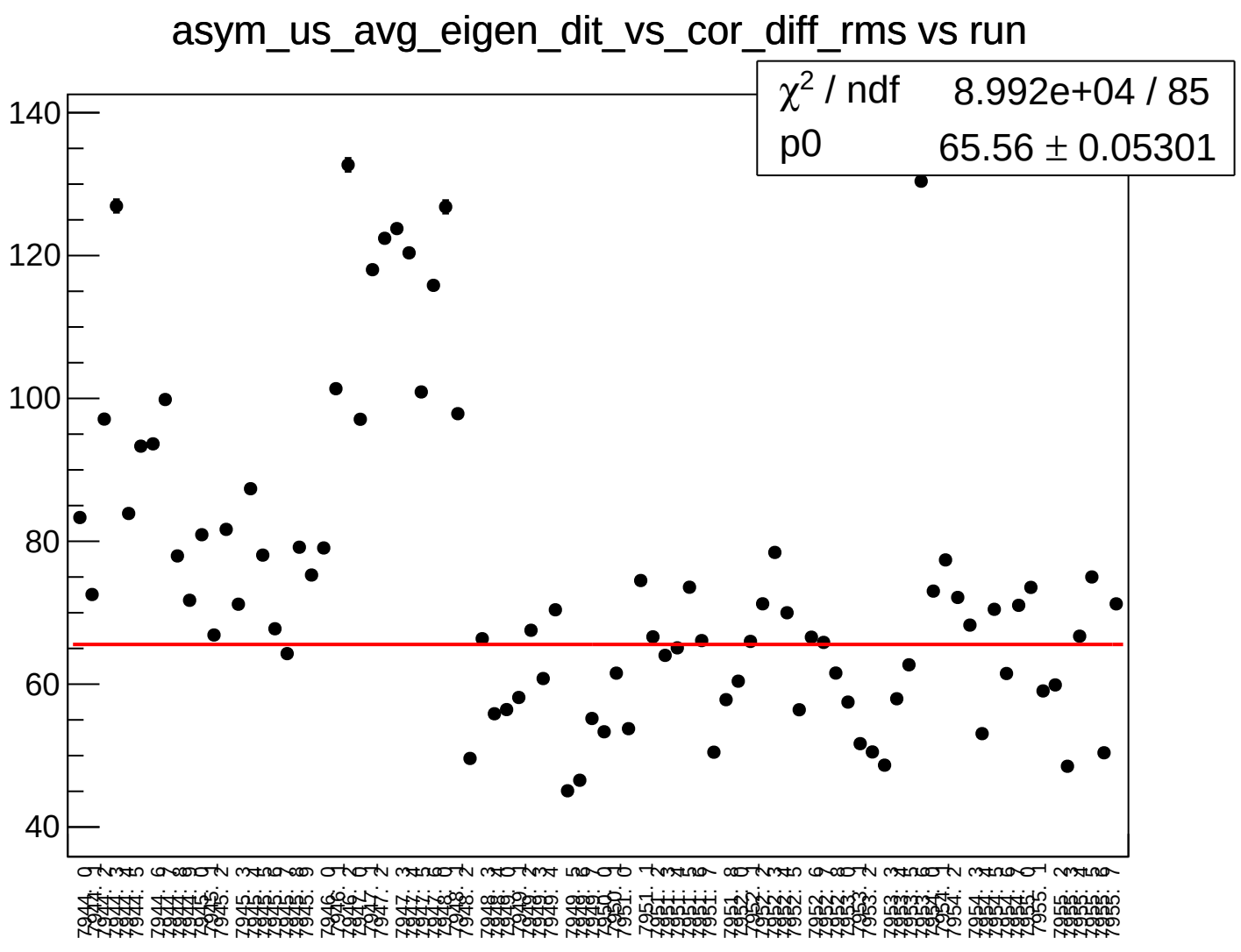

pull1D
Entries 86
Mean 0.003505
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

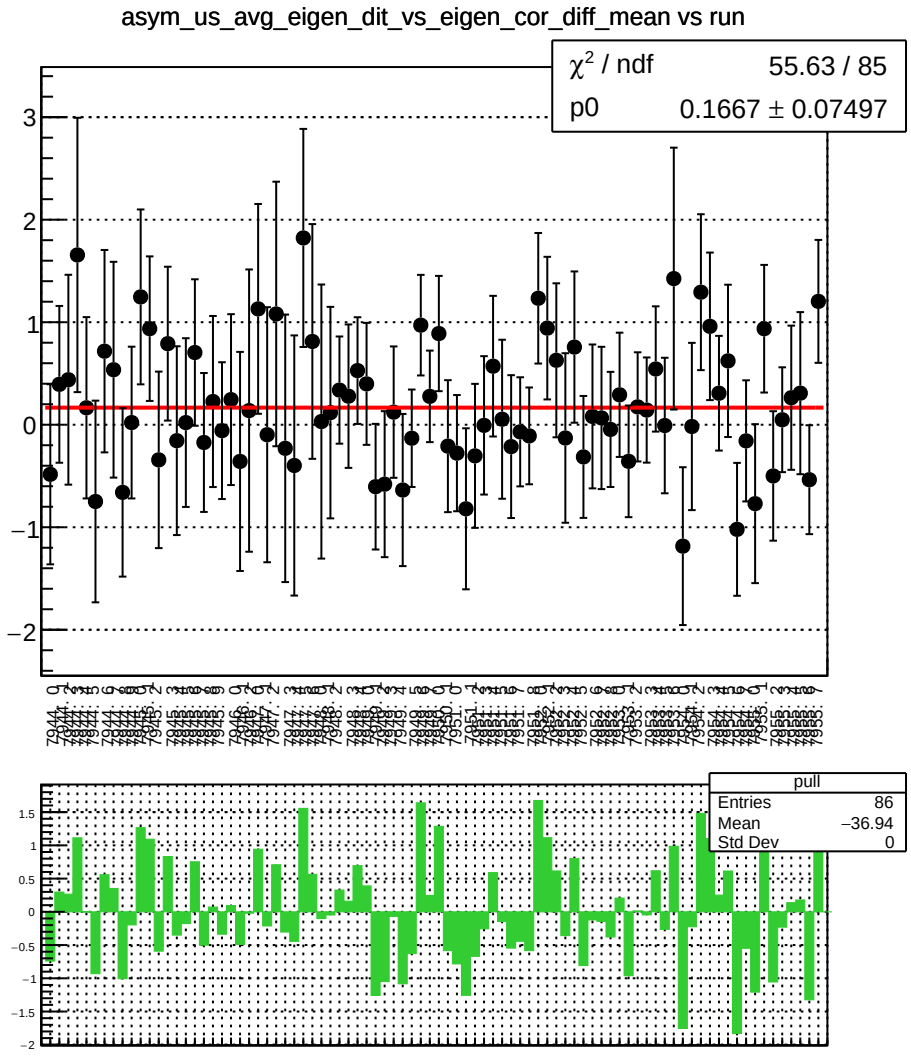

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2954 / 85
p0 0.005608 ± 4.411e−06
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005

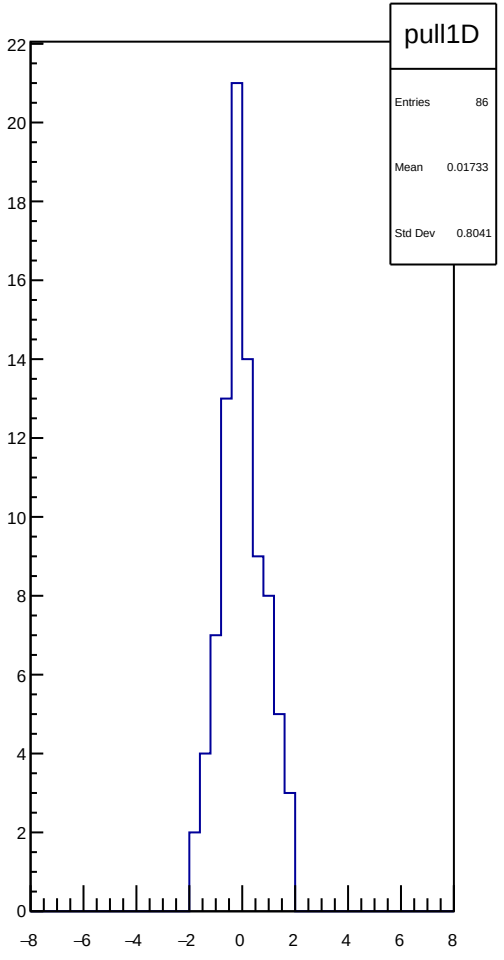
asym_us_avg_eigen_dit_vs_cor_diff_mean vs run

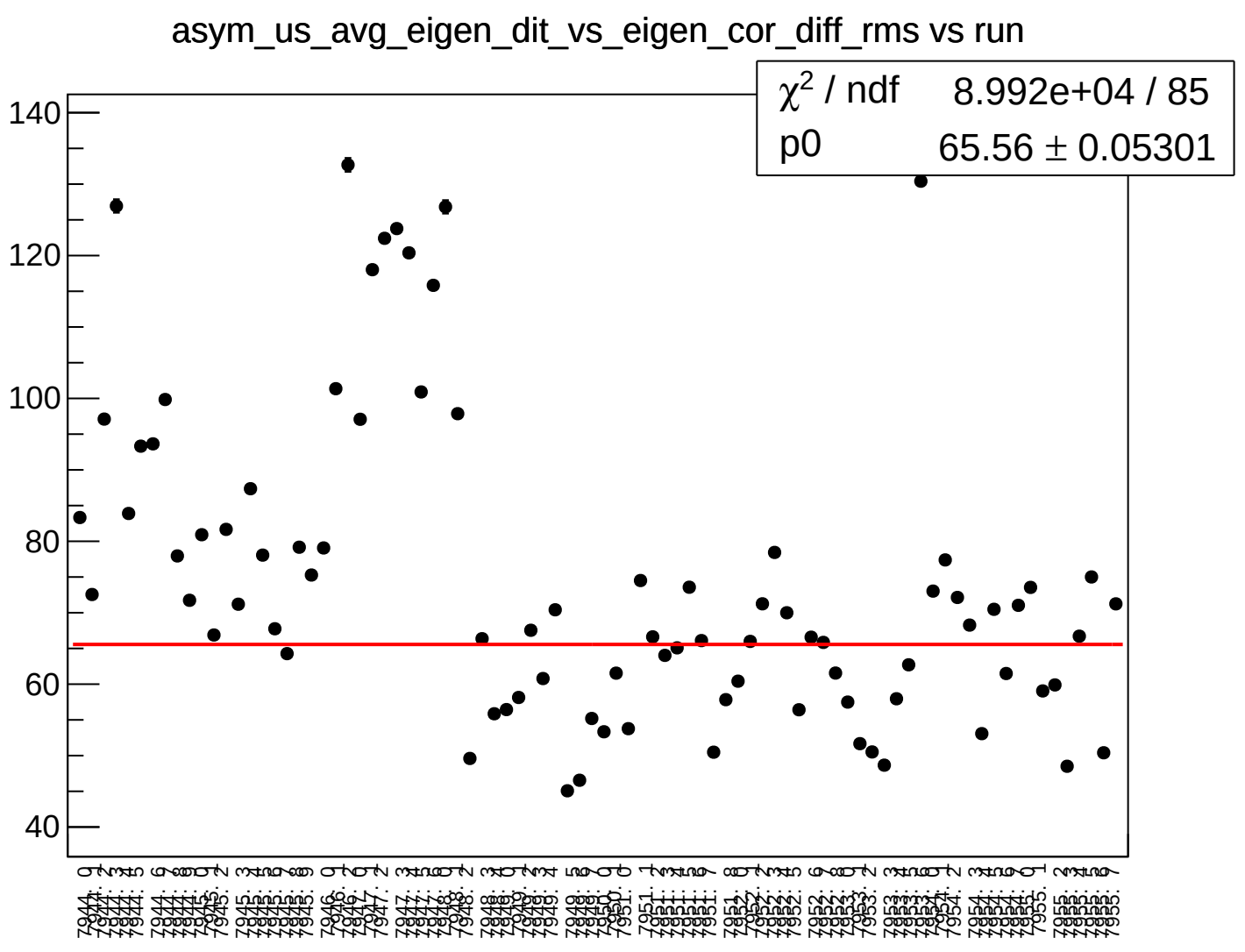


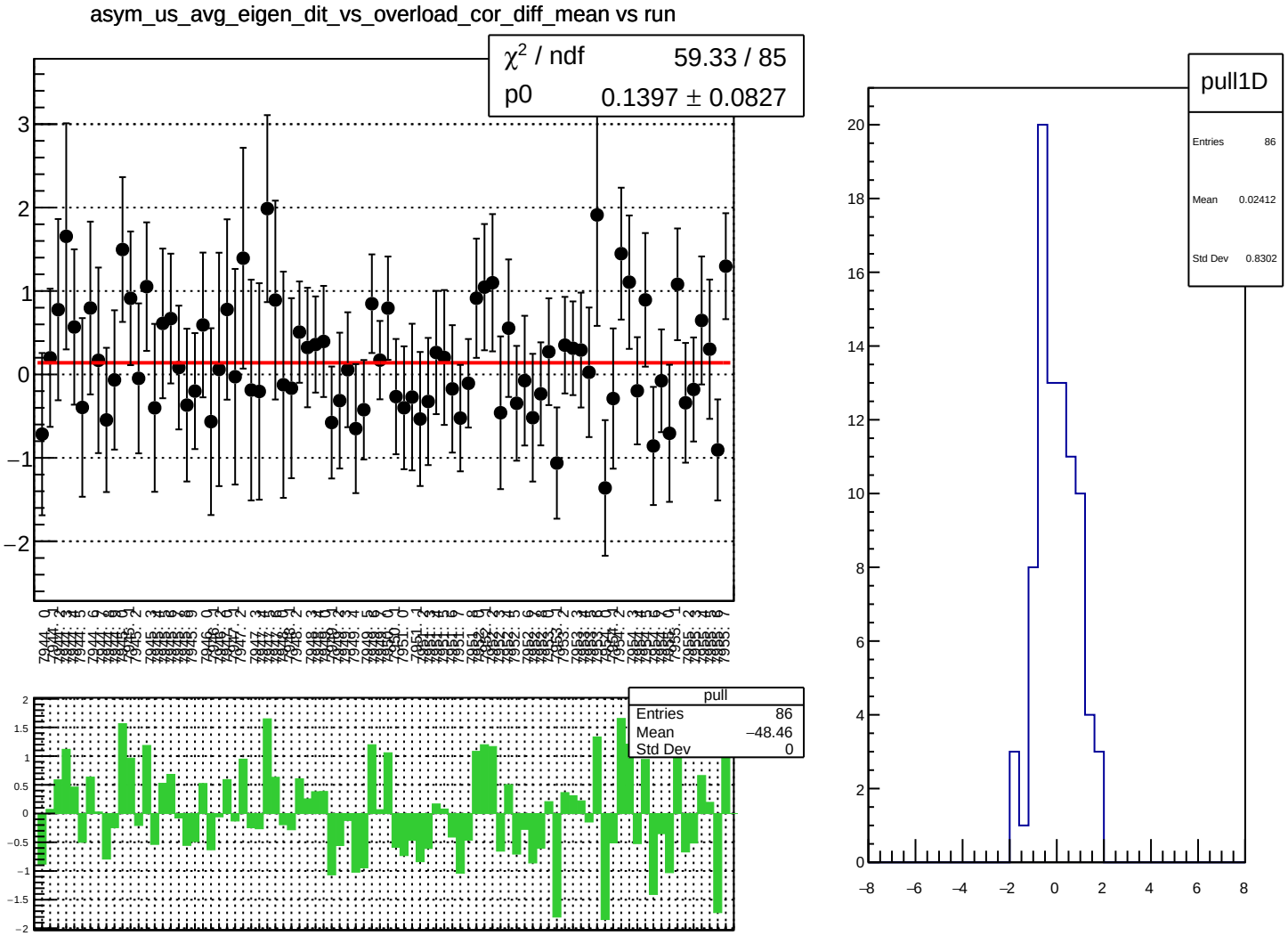


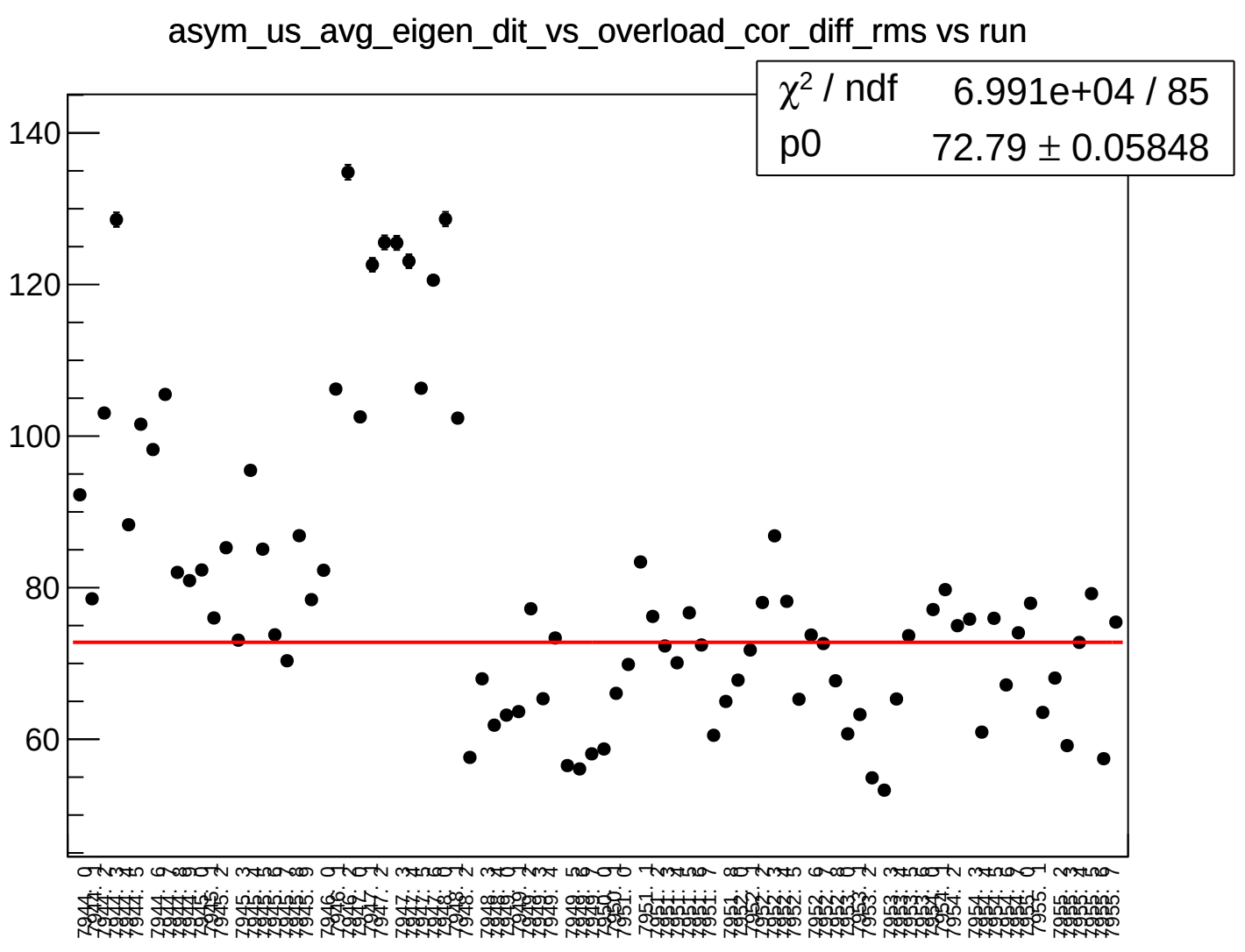

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.992e+04 / 85
p0 65.56 ± 0.05301
140
120
100
80
60
40

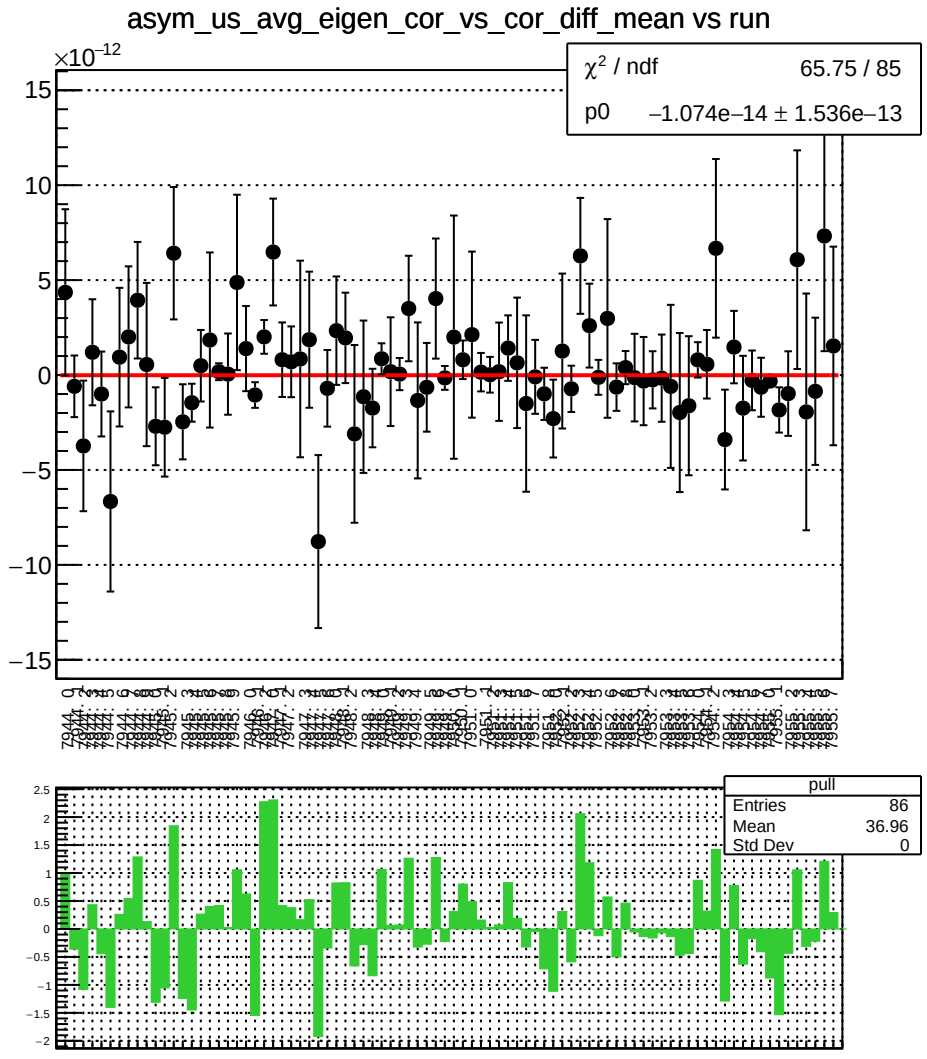

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.63 / 85
p0 0.1667 ± 0.07497
pull
Entries 86
Mean −36.94
Std Dev 0

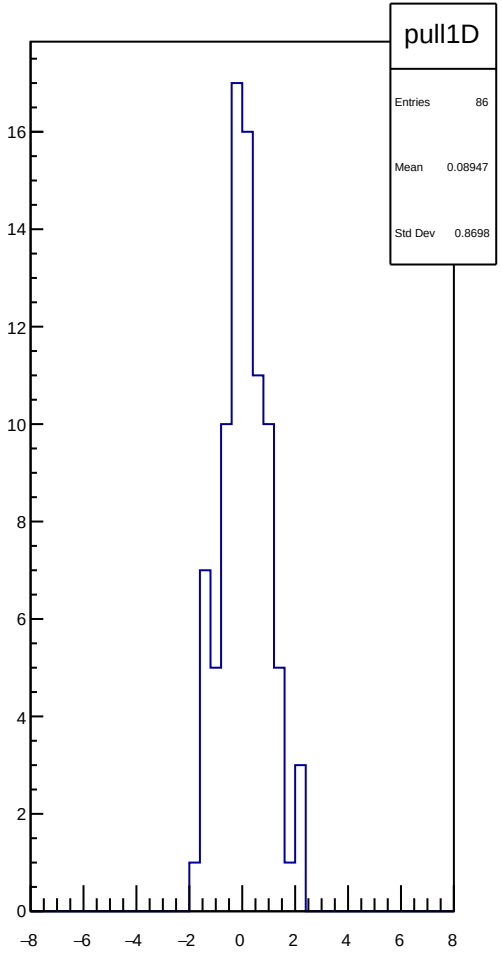

pull1D
Entries 86
Mean 0.01733
Std Dev 0.8041

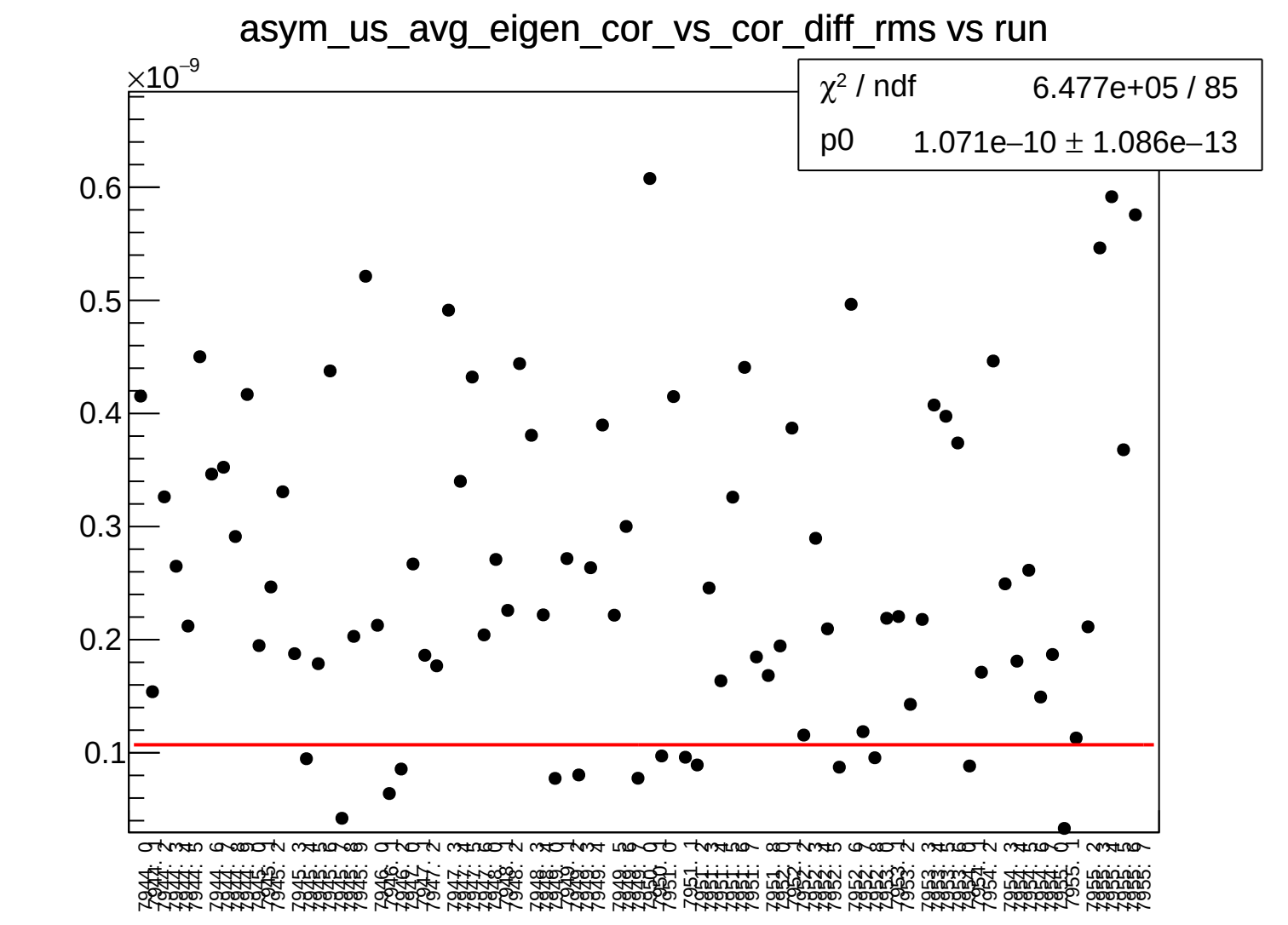

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.992e+04 / 85
p0 65.56 ± 0.05301
140
120
100
80
60
40

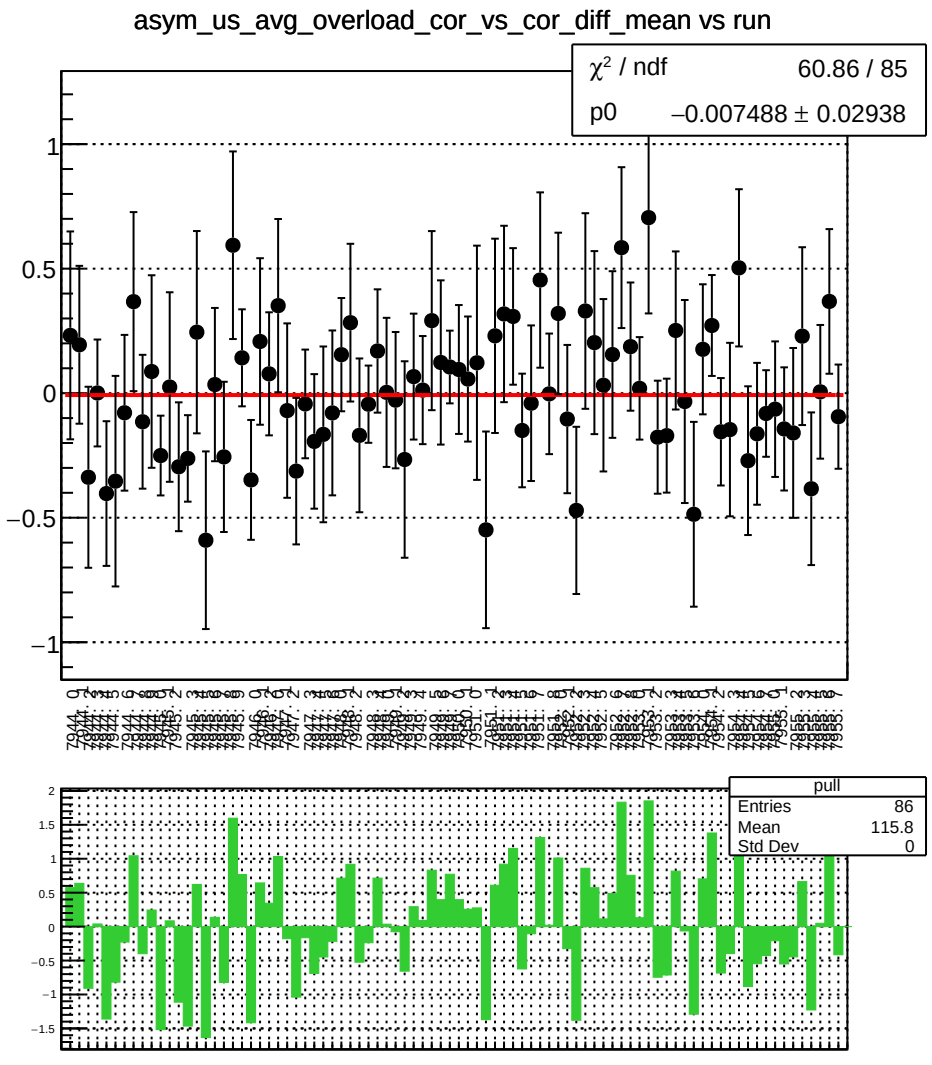

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 59.33 / 85
p0 0.1397 ± 0.0827
pull
Entries 86
Mean −48.46
Std Dev 0
pull1D
Entries 86
Mean 0.02412
Std Dev 0.8302

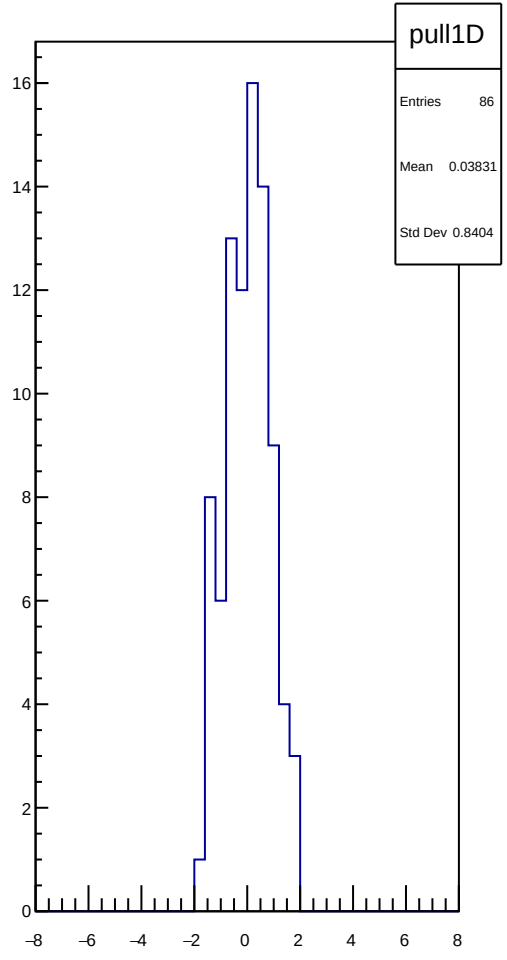

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.991e+04 / 85
p0 72.79 ± 0.05848
140
120
100
80
60

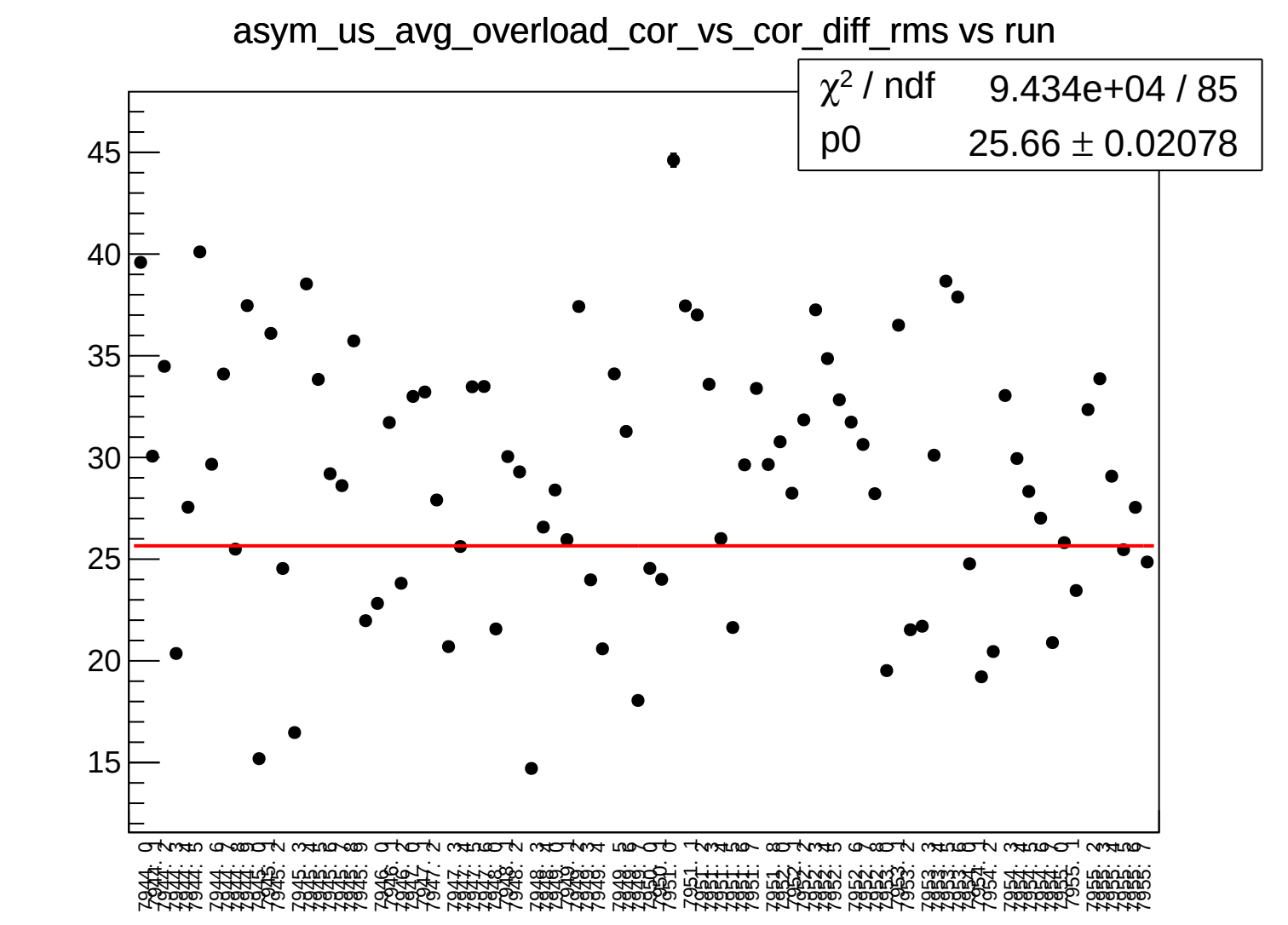

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.75 / 85
p0 −1.074e−14 ± 1.536e−13
pull
Entries 86
Mean 36.96
Std Dev 0

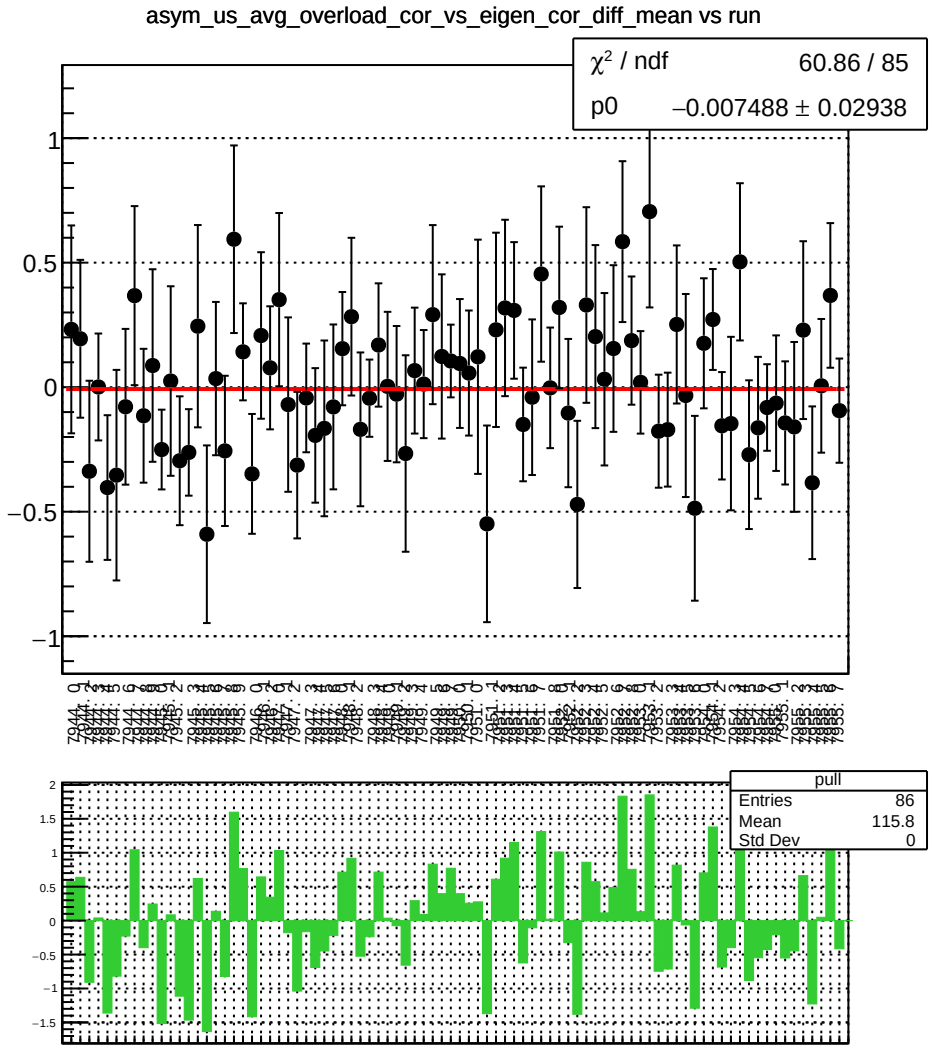

pull1D
Entries 86
Mean 0.08947
Std Dev 0.8698

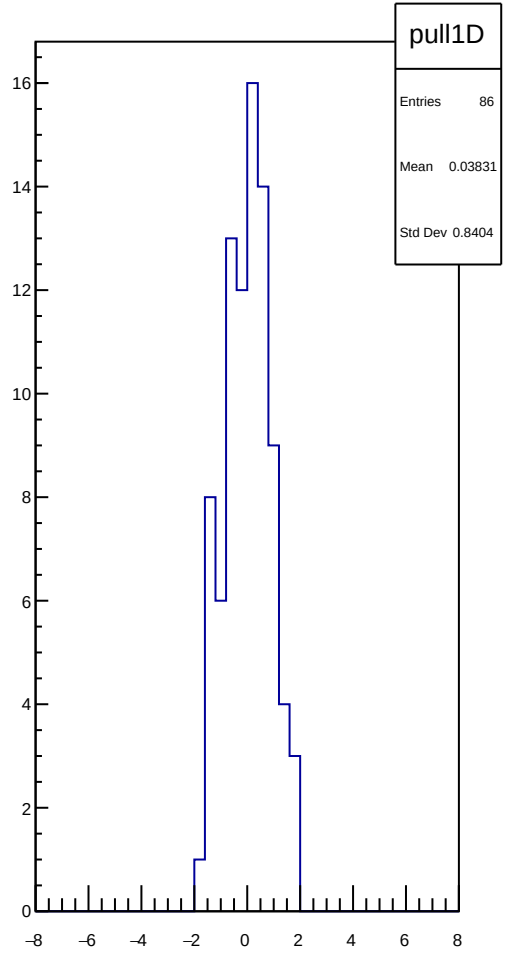

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.477e+05 / 85
p0 1.071e−10 ± 1.086e−13
0.6
0.5
0.4
0.3
0.2
0.1

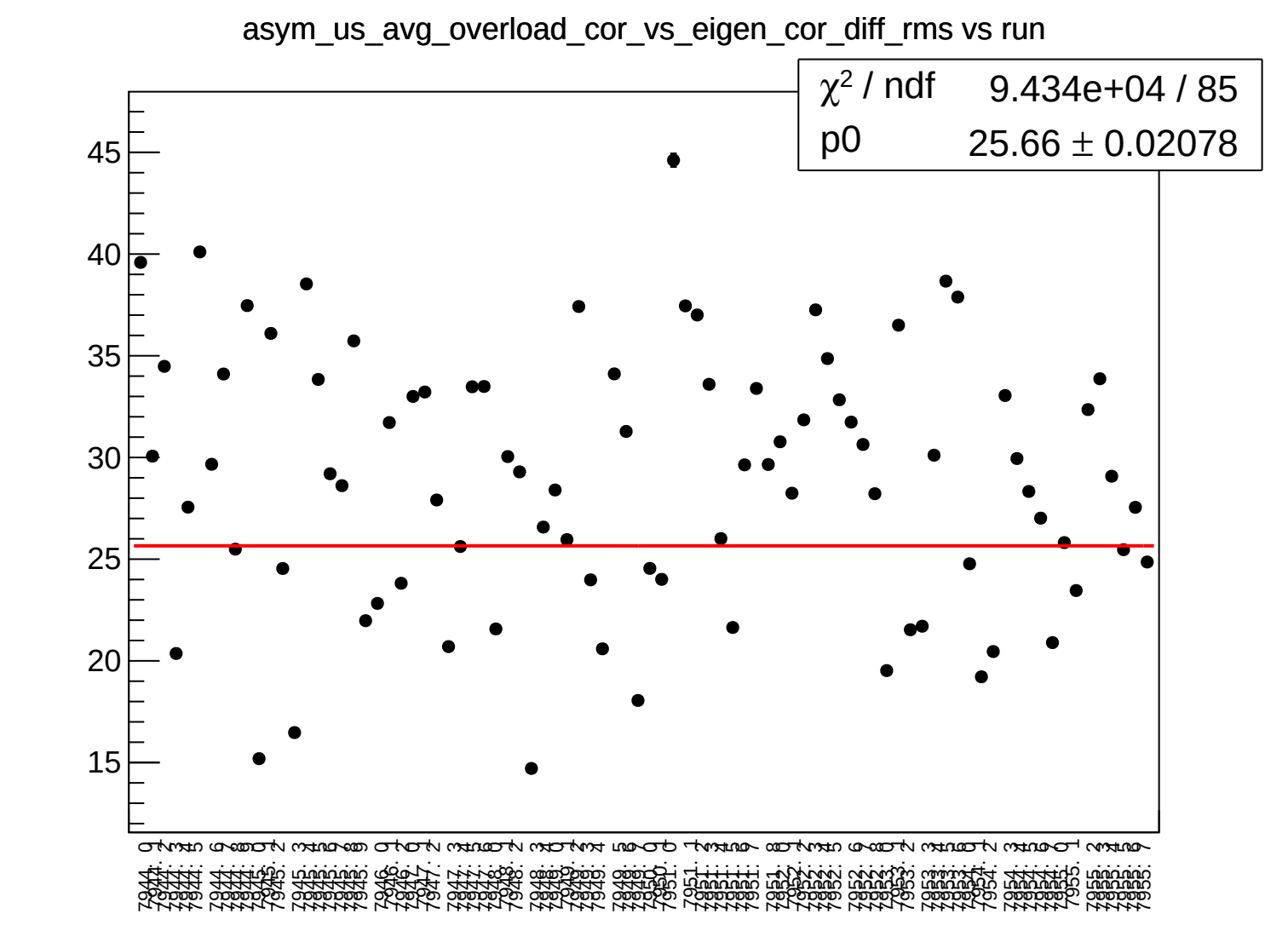

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 60.86 / 85
p0 −0.007488 ± 0.02938
pull
Entries 86
Mean 115.8
Std Dev 0

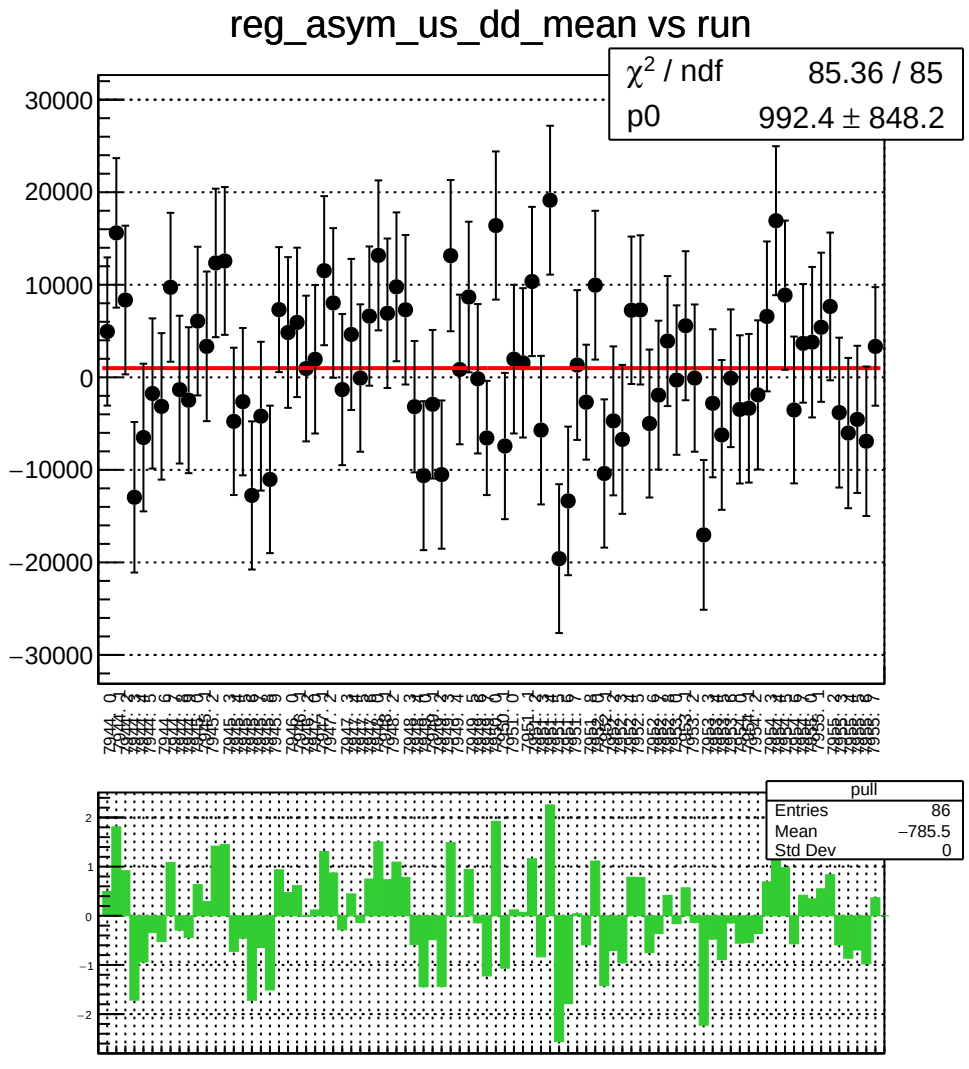

pull1D
Entries 86
Mean 0.03831
Std Dev 0.8404

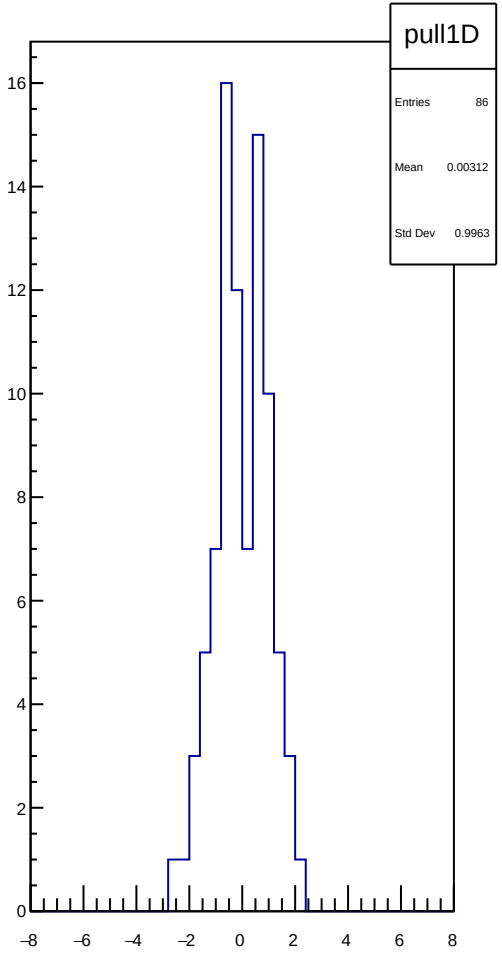

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 9.434e+04 / 85
p0 25.66 ± 0.02078
45
40
35
30
25
20
15

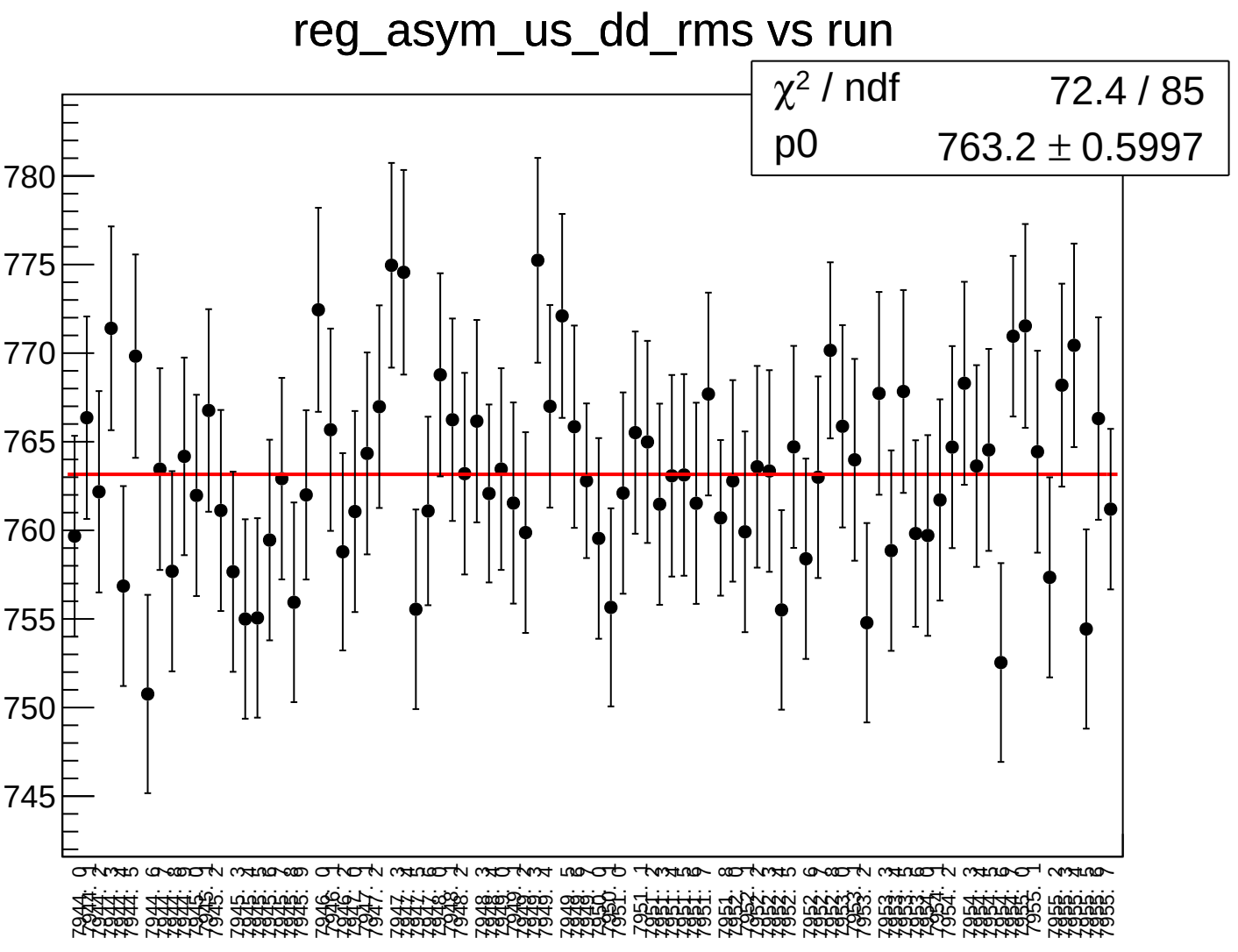

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.86 / 85
p0 −0.007488 ± 0.02938
pull
Entries 86
Mean 115.8
Std Dev 0

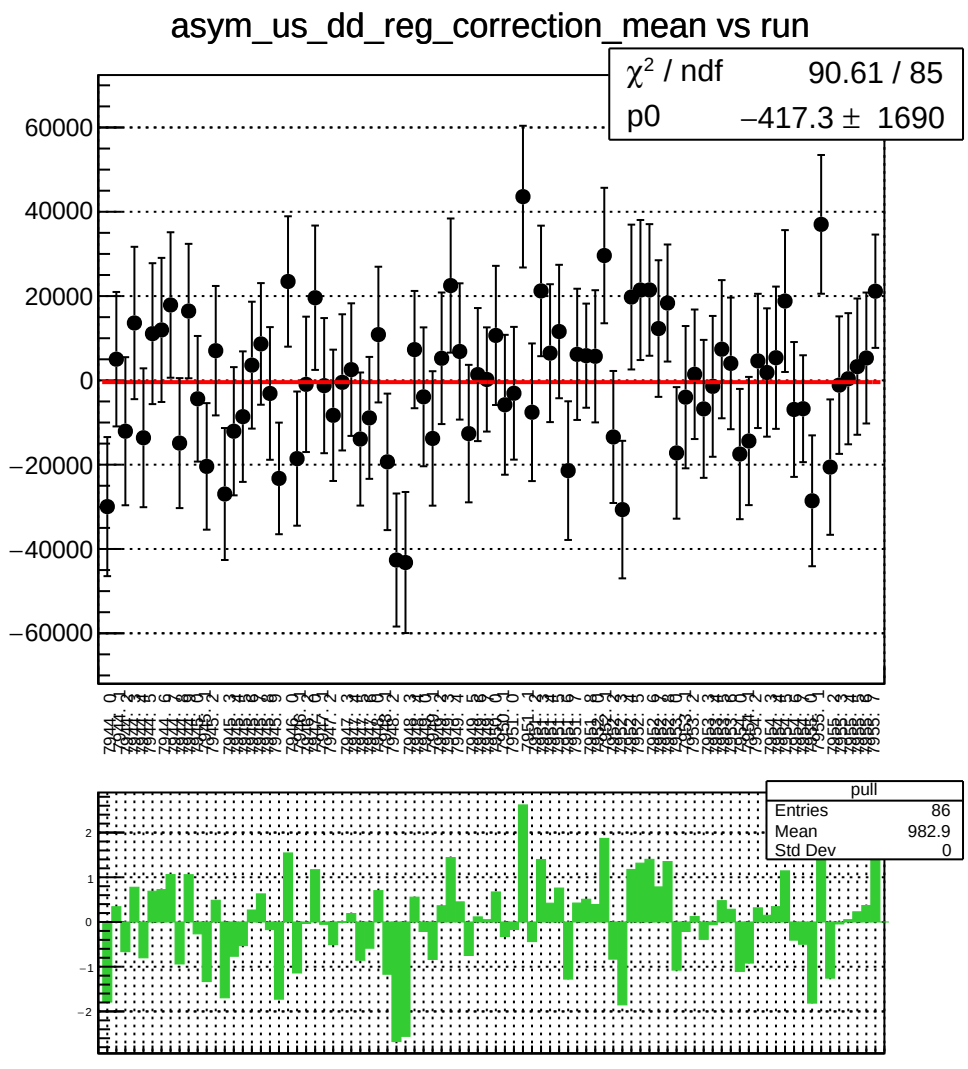

pull1D
Entries 86
Mean 0.03831
Std Dev 0.8404

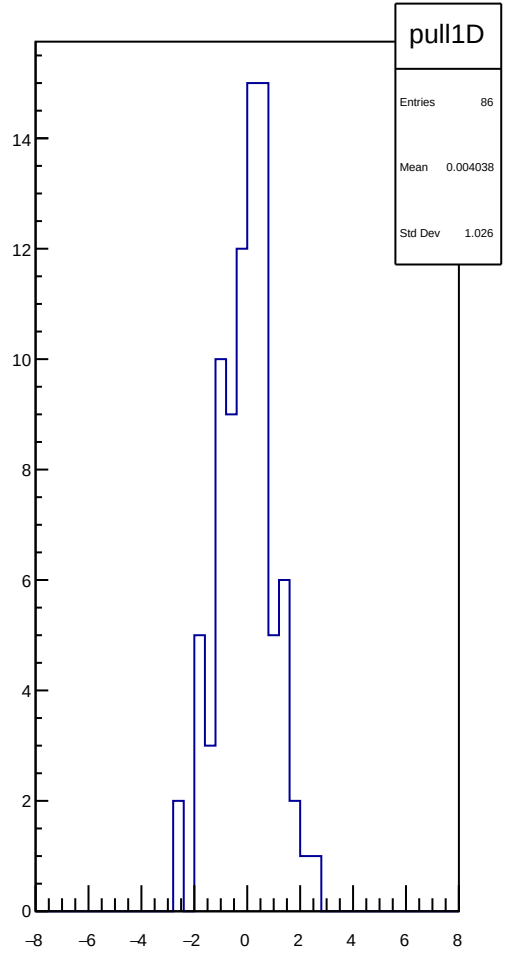

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.434e+04 / 85
p0 25.66 ± 0.02078
45
40
35
30
25
20
15

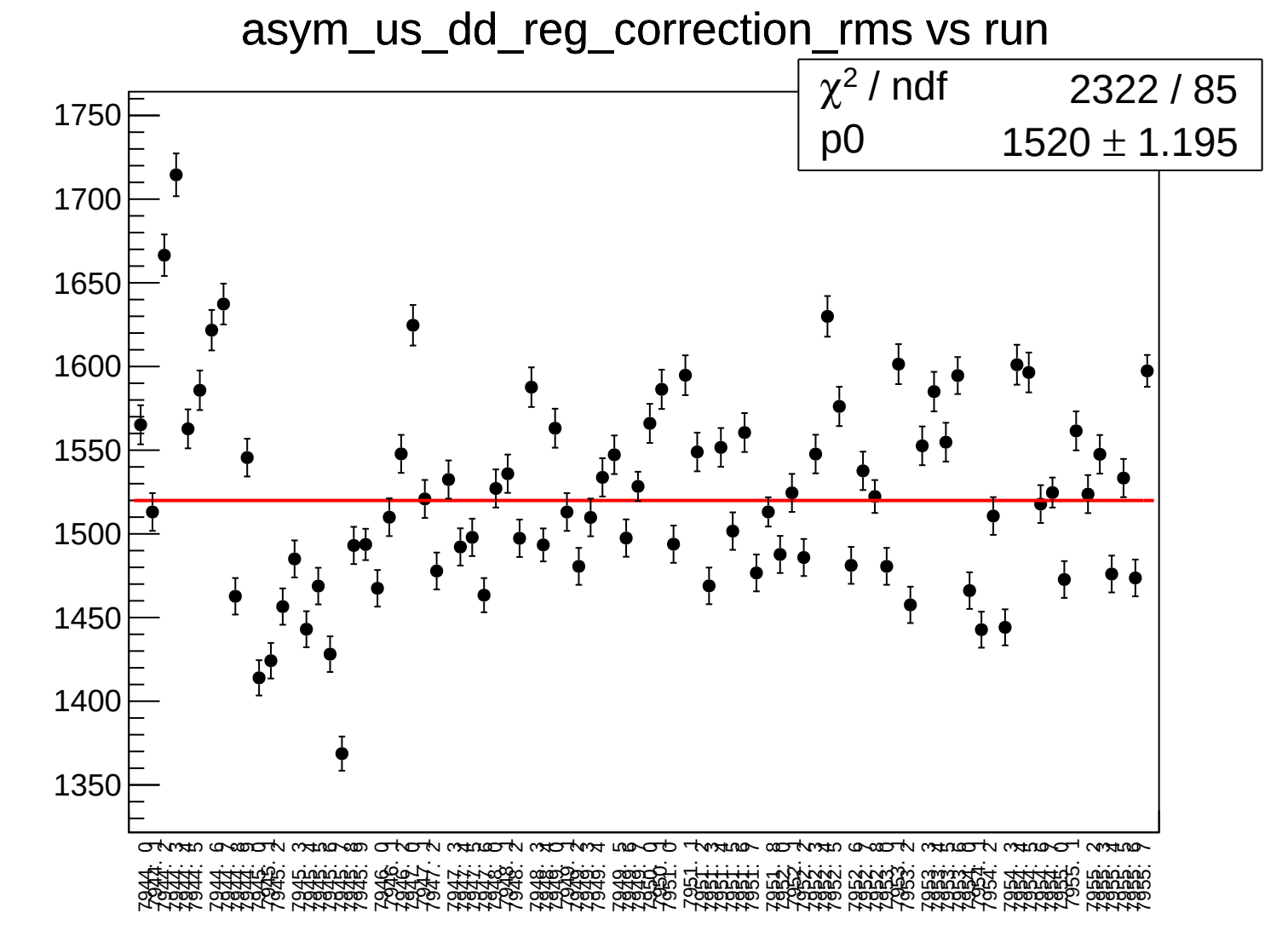

reg_asym_us_dd_mean vs run
χ² / ndf 85.36 / 85
p0 992.4 ± 848.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −785.5
Std Dev 0
2
1
0
−1
−2

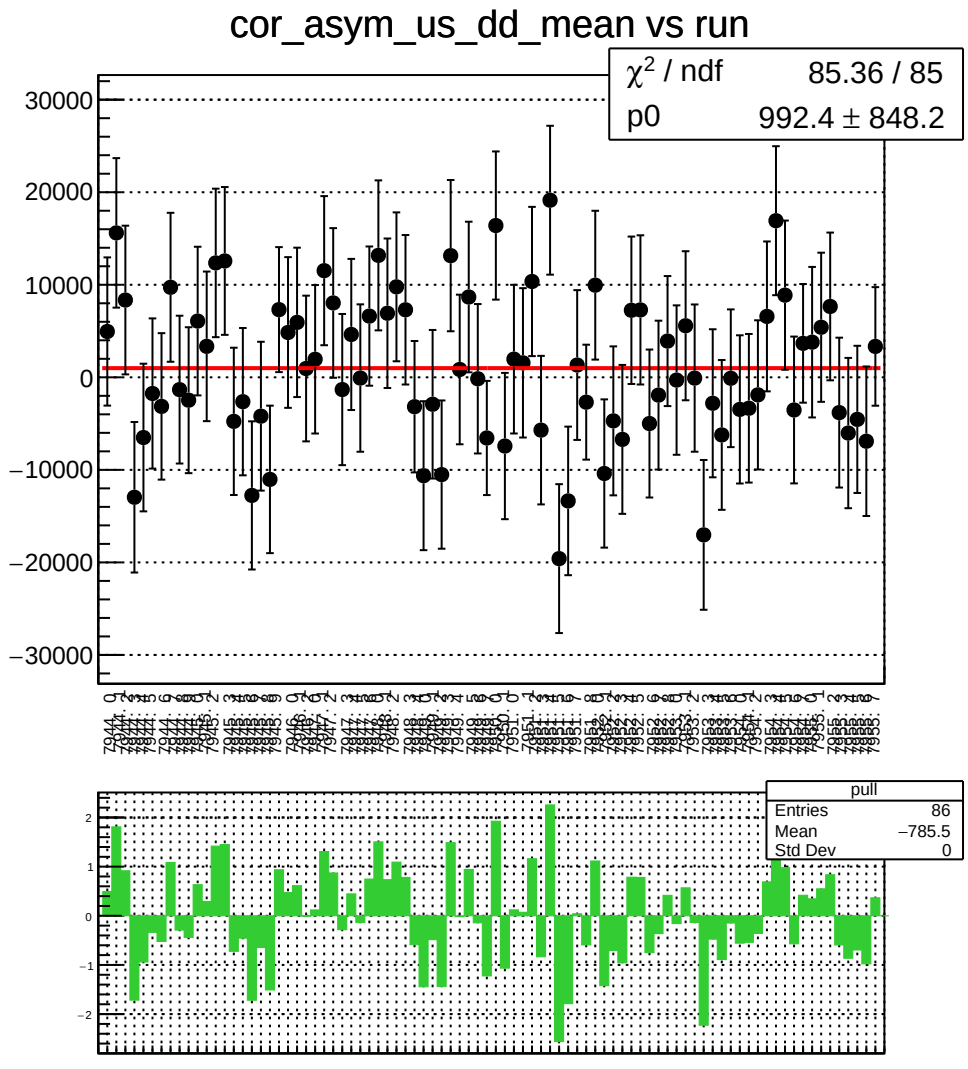

pull1D
Entries 86
Mean 0.00312
Std Dev 0.9963
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

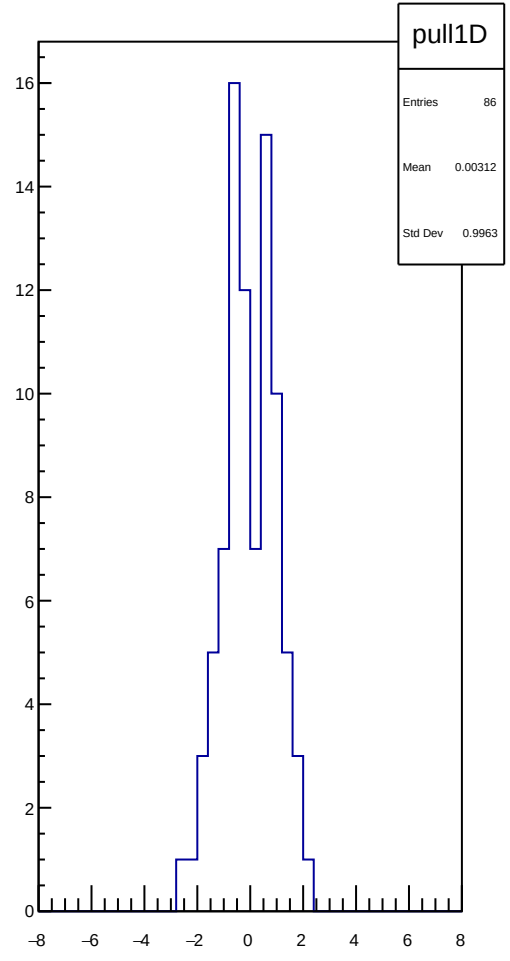

reg_asym_us_dd_rms vs run
χ² / ndf 72.4 / 85
p0 763.2 ± 0.5997
780
775
770
765
760
755
750
745

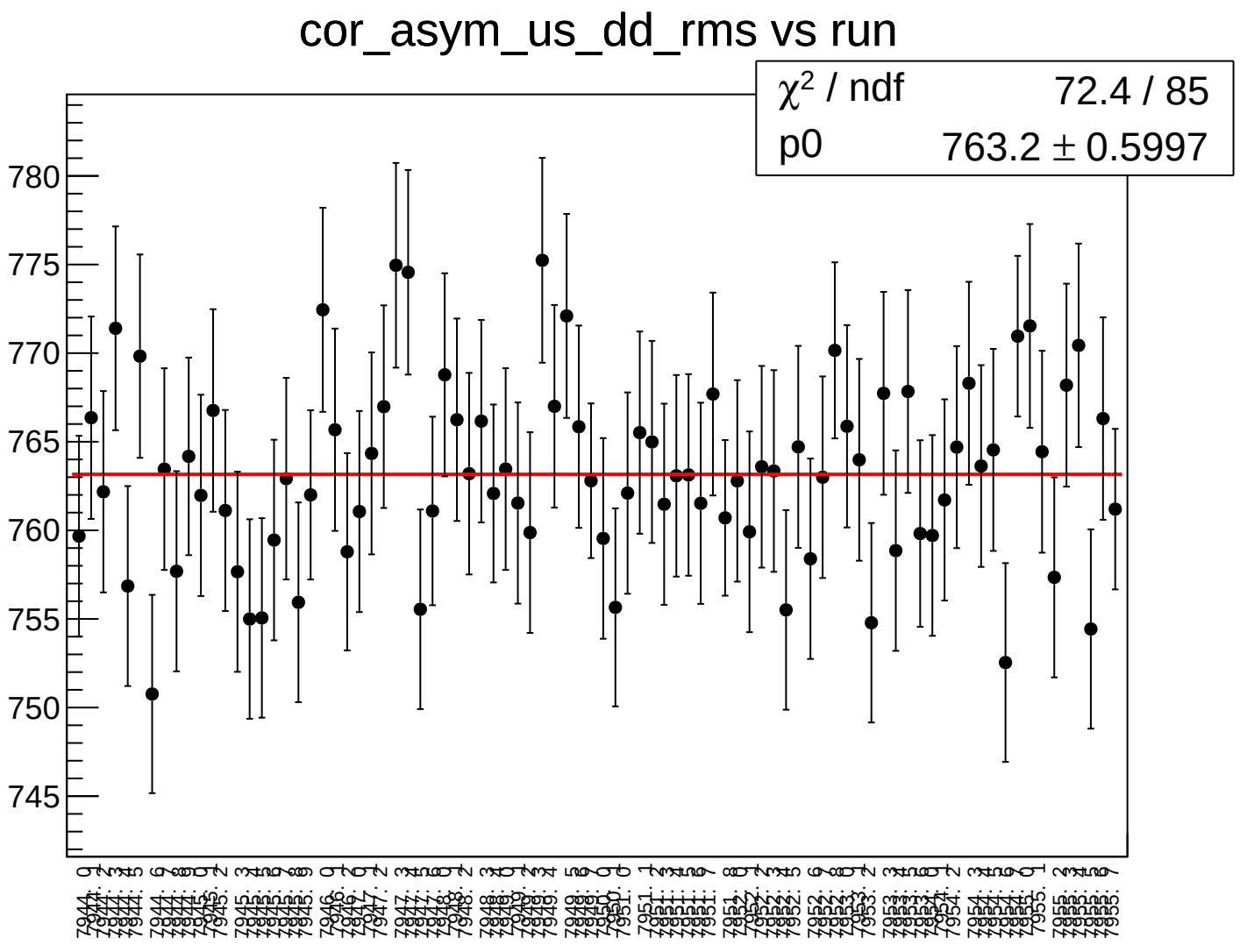

asym_us_dd_reg_correction_mean vs run
χ² / ndf 90.61 / 85
p0 −417.3 ± 1690
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 982.9
Std Dev 0
2
1
0
−1
−2

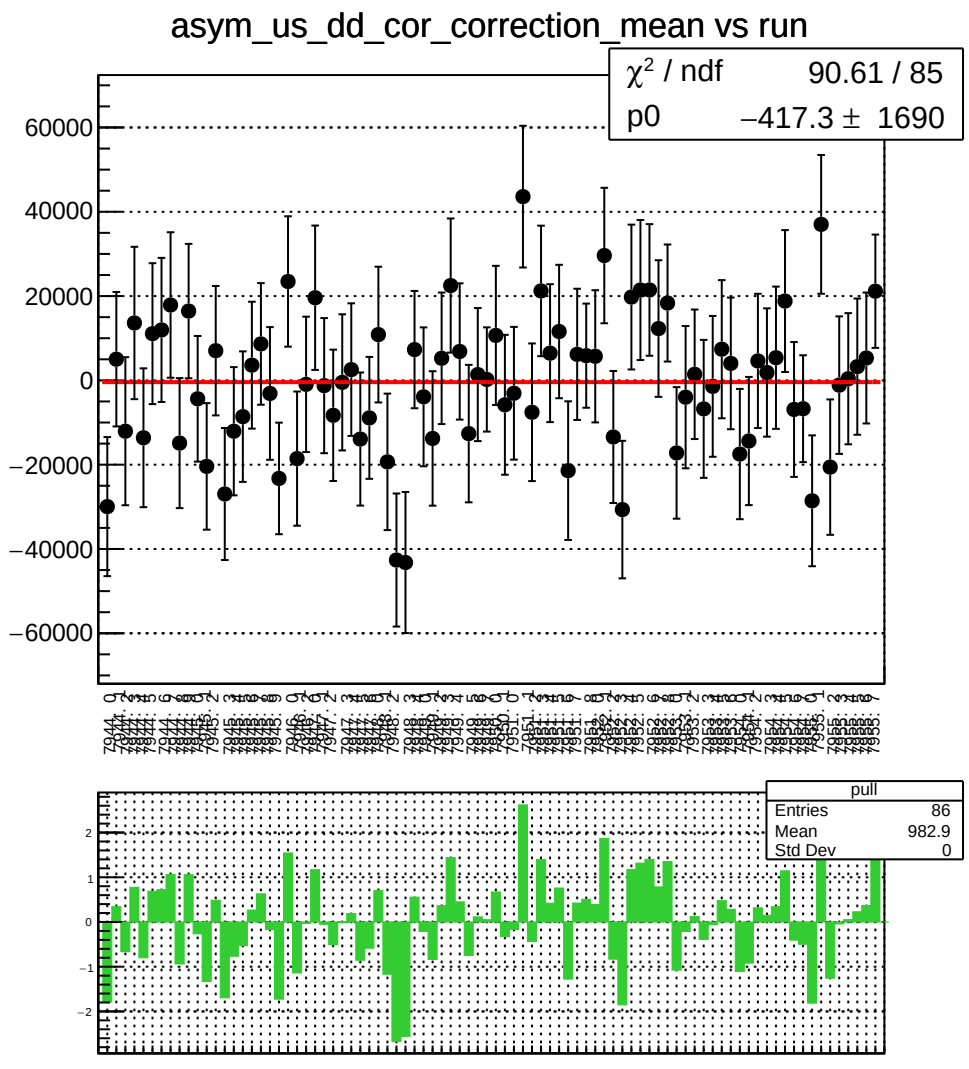

pull1D
Entries 86
Mean 0.004038
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

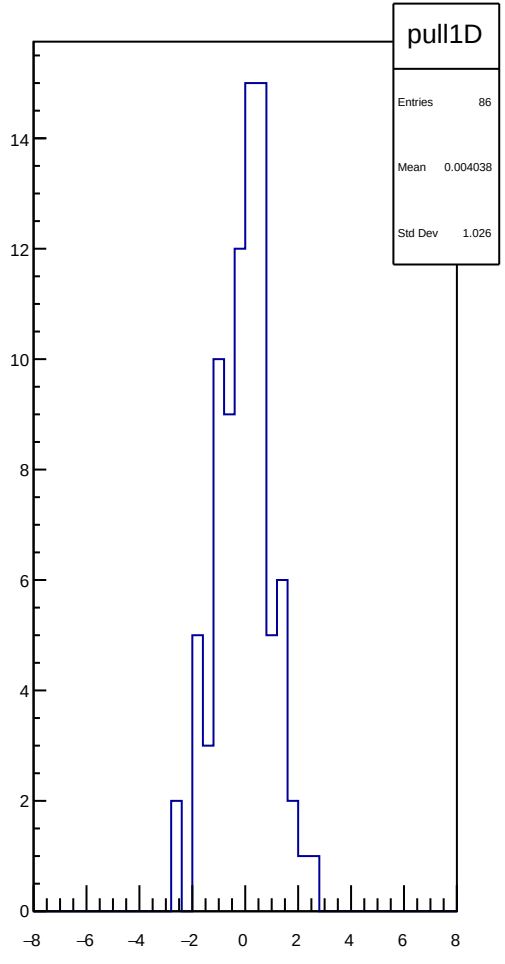

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2322 / 85
p0 1520 ± 1.195
1750
1700
1650
1600
1550
1500
1450
1400
1350

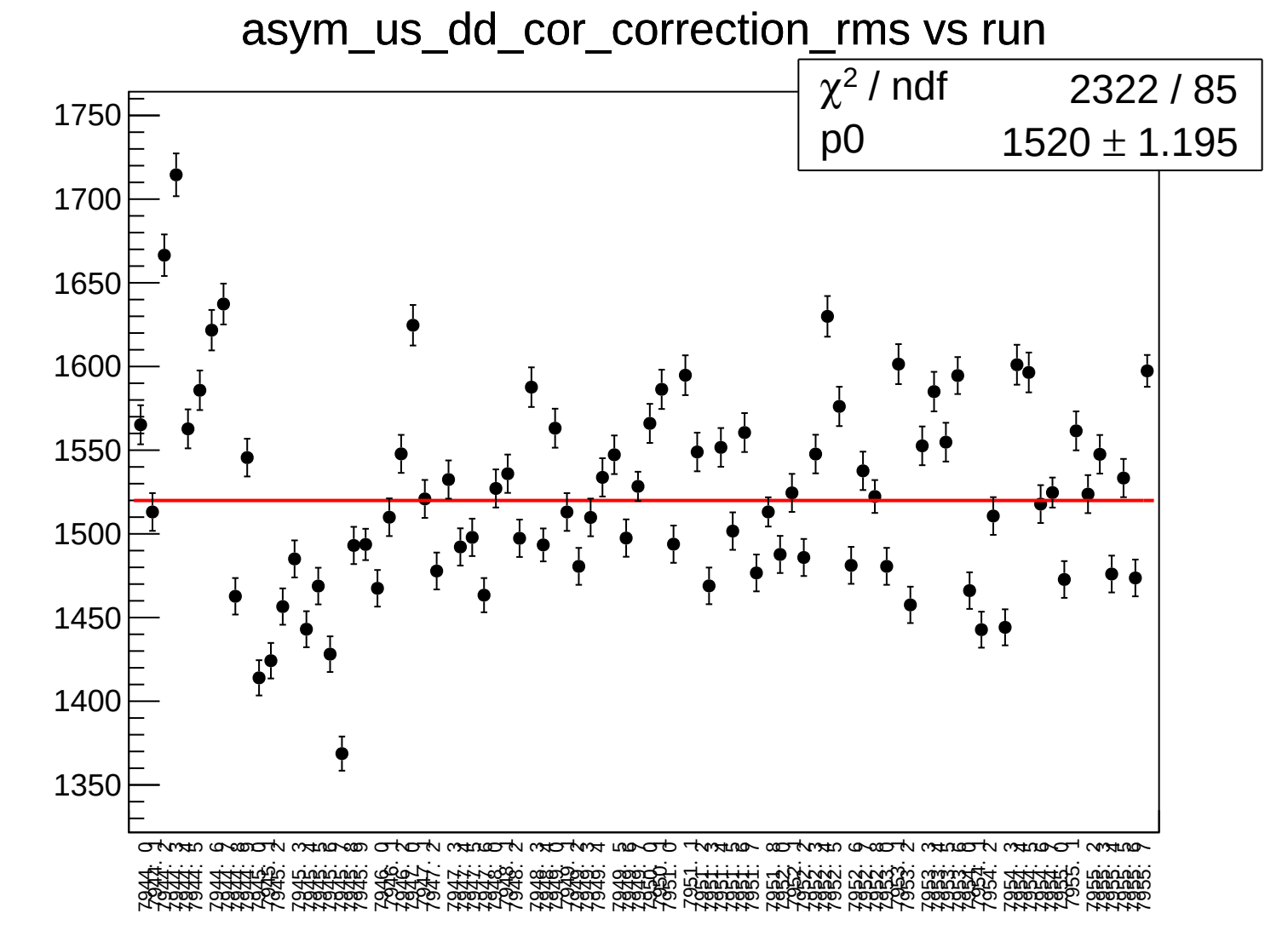

cor_asym_us_dd_mean vs run
χ² / ndf 85.36 / 85
p0 992.4 ± 848.2
pull
Entries 86
Mean −785.5
Std Dev 0

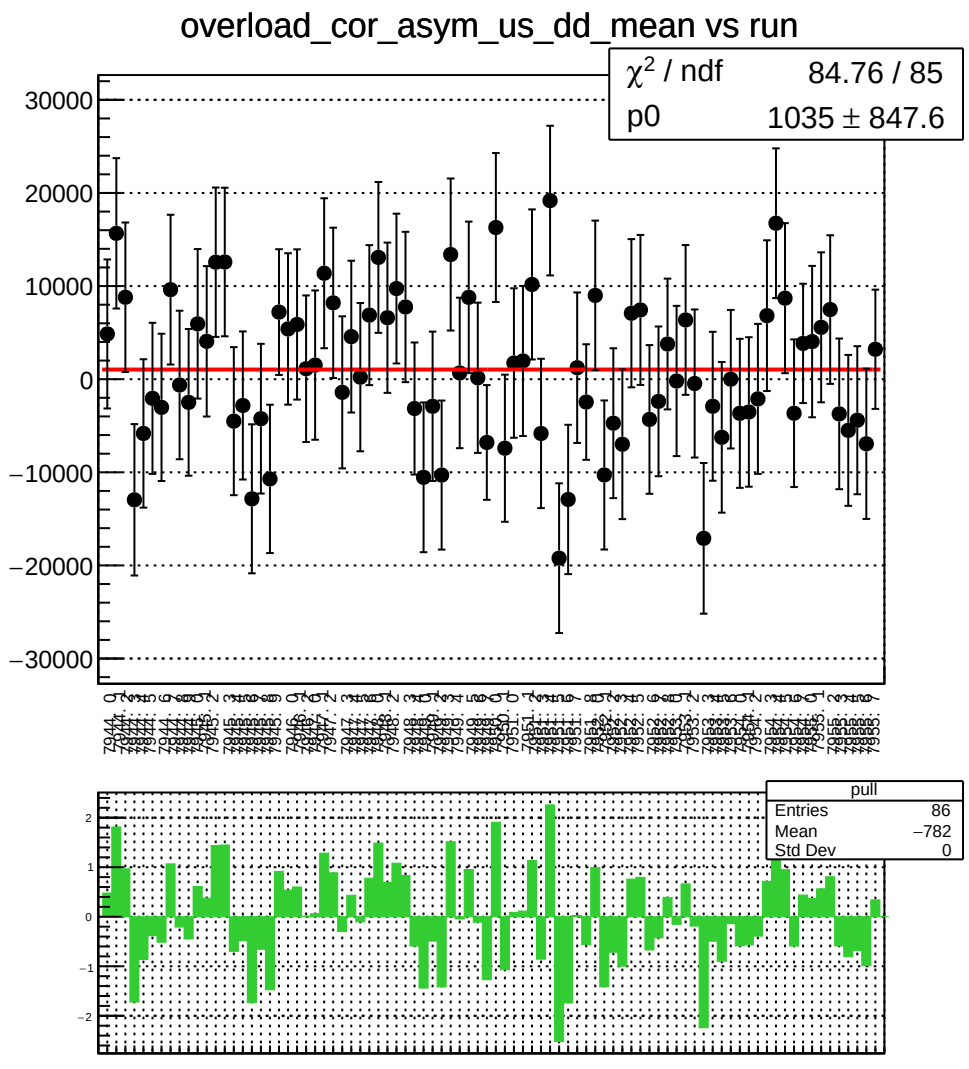

pull1D
Entries 86
Mean 0.00312
Std Dev 0.9963

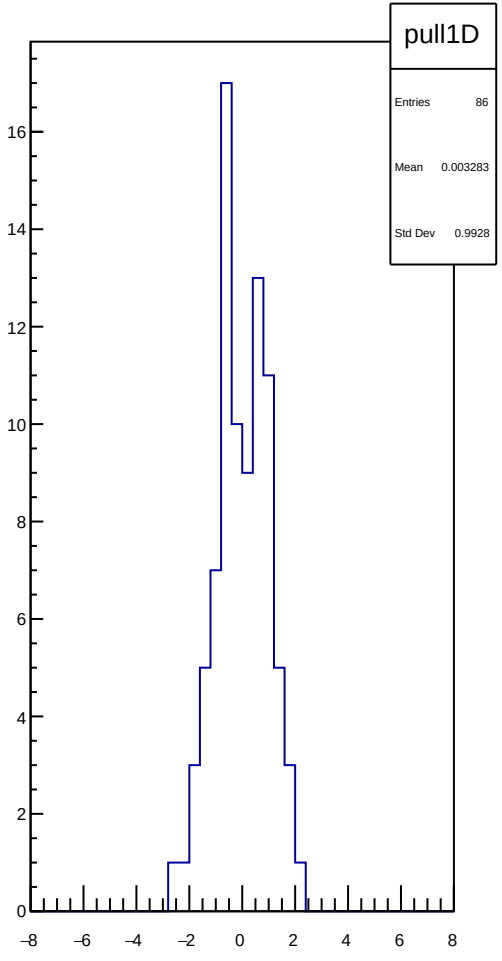

cor_asym_us_dd_rms vs run
χ² / ndf 72.4 / 85
p0 763.2 ± 0.5997
780
775
770
765
760
755
750
745

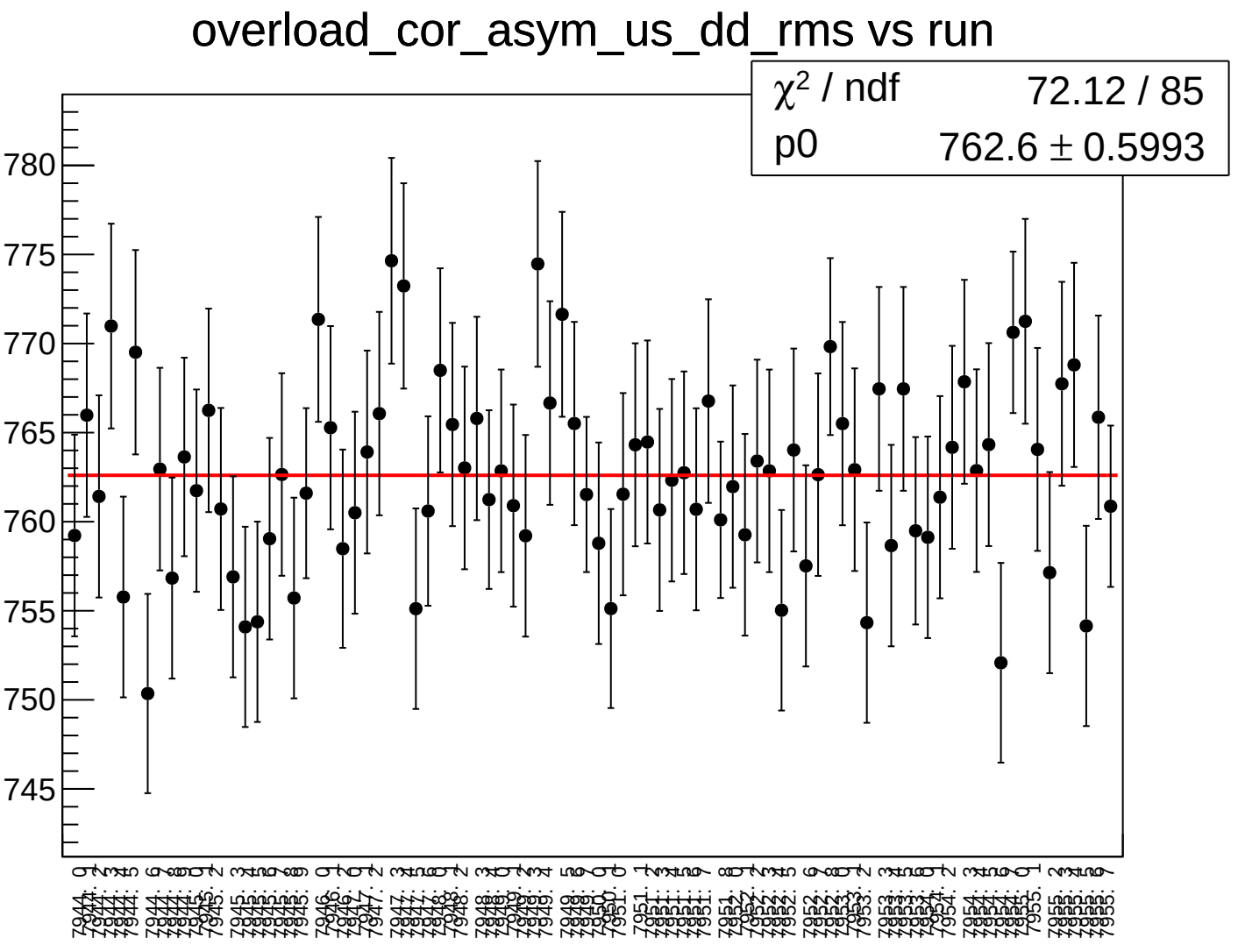

asym_us_dd_cor_correction_mean vs run
χ² / ndf 90.61 / 85
p0 −417.3 ± 1690
pull
Entries 86
Mean 982.9
Std Dev 0

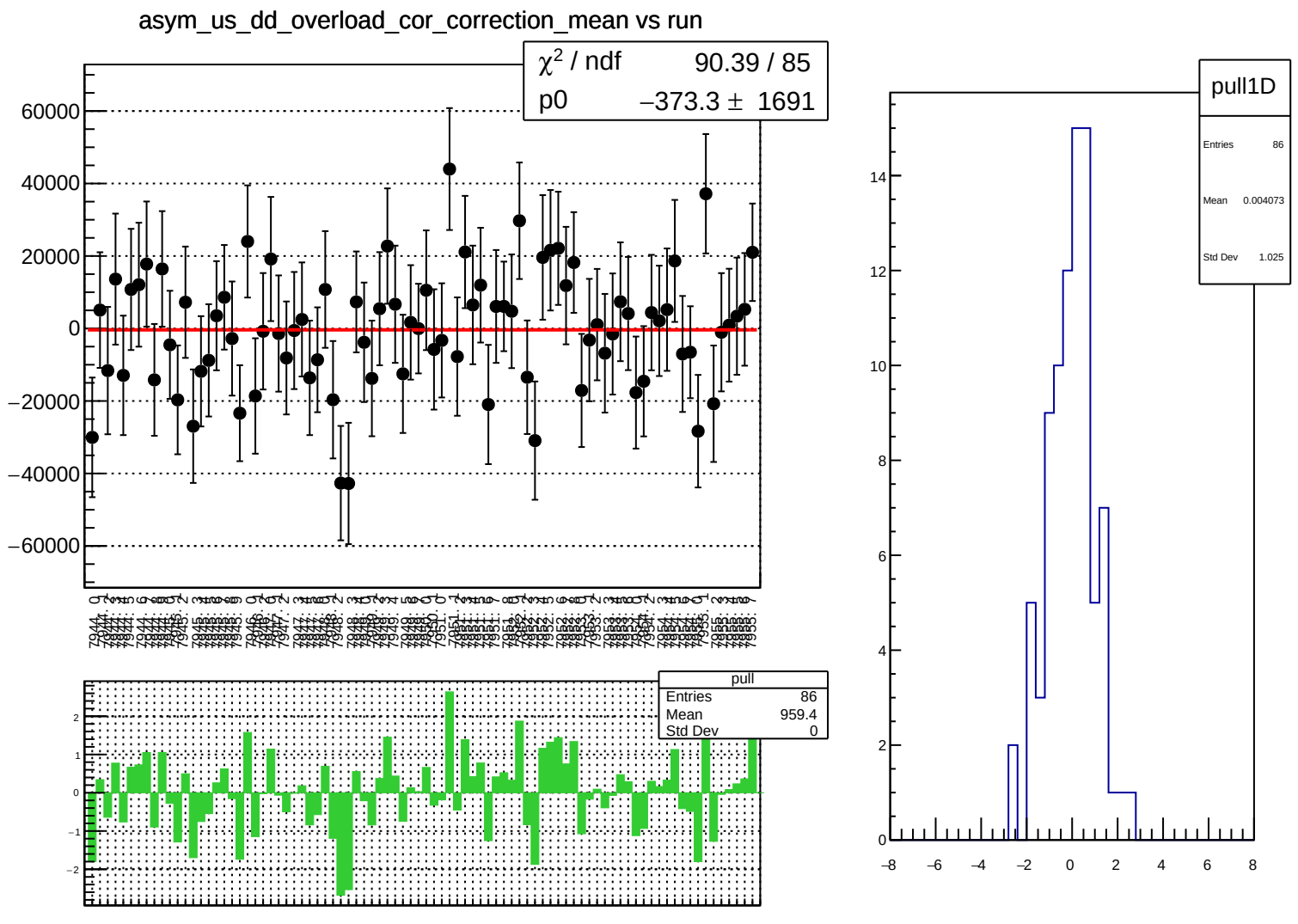

pull1D
Entries 86
Mean 0.004038
Std Dev 1.026

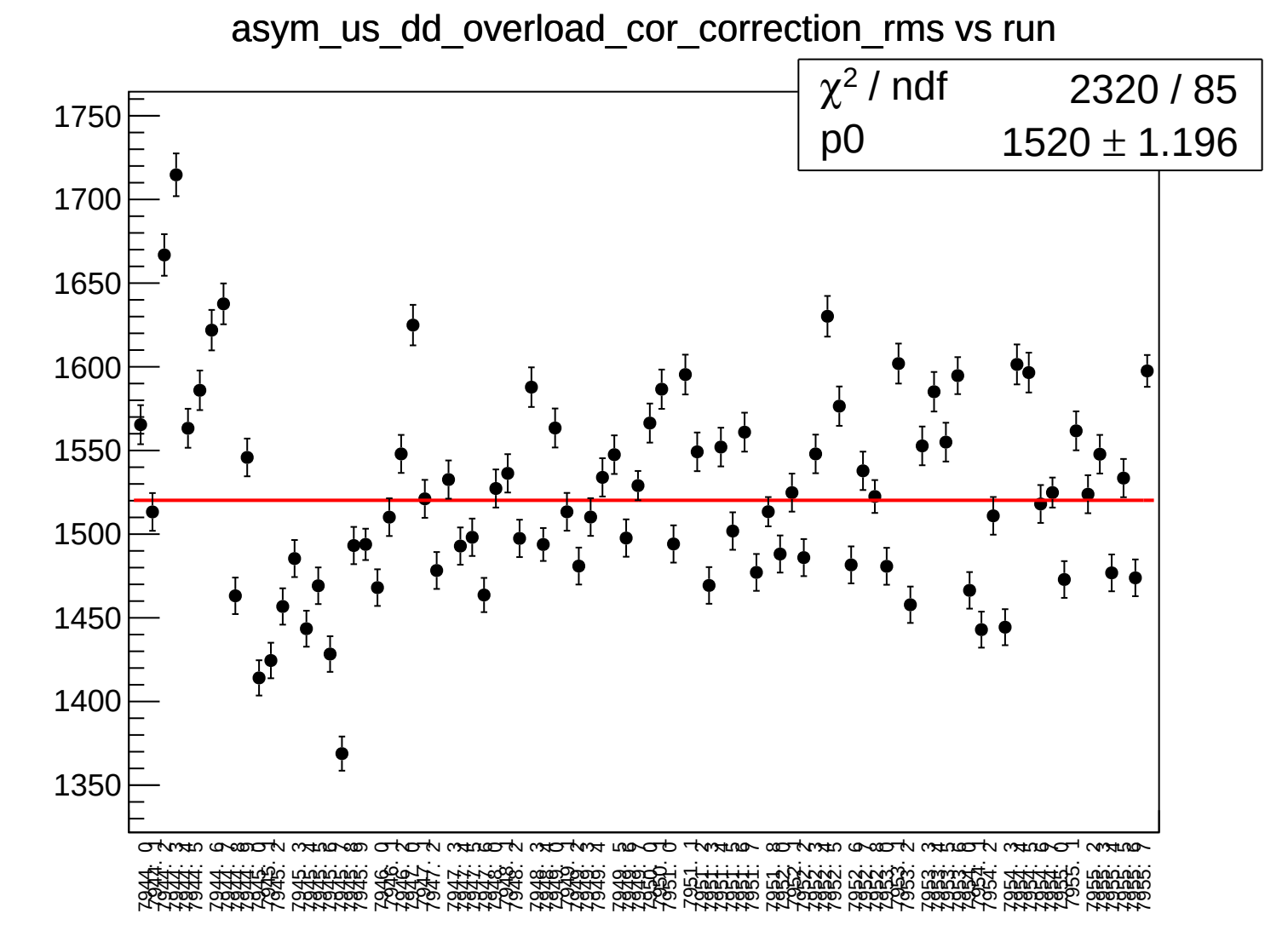

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2322 / 85
p0 1520 ± 1.195
1750
1700
1650
1600
1550
1500
1450
1400
1350

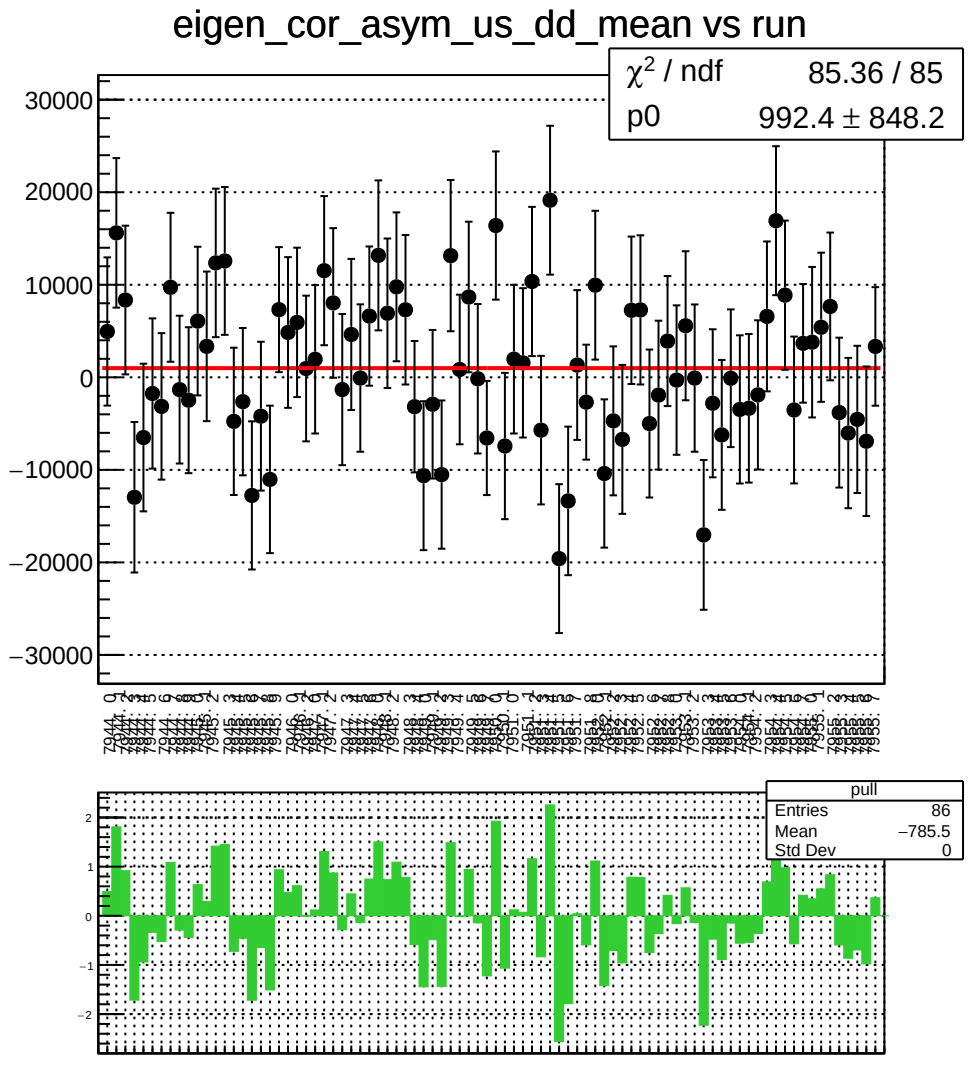

overload_cor_asym_us_dd_mean vs run
χ² / ndf 84.76 / 85
p0 1035 ± 847.6
pull
Entries 86
Mean −782
Std Dev 0

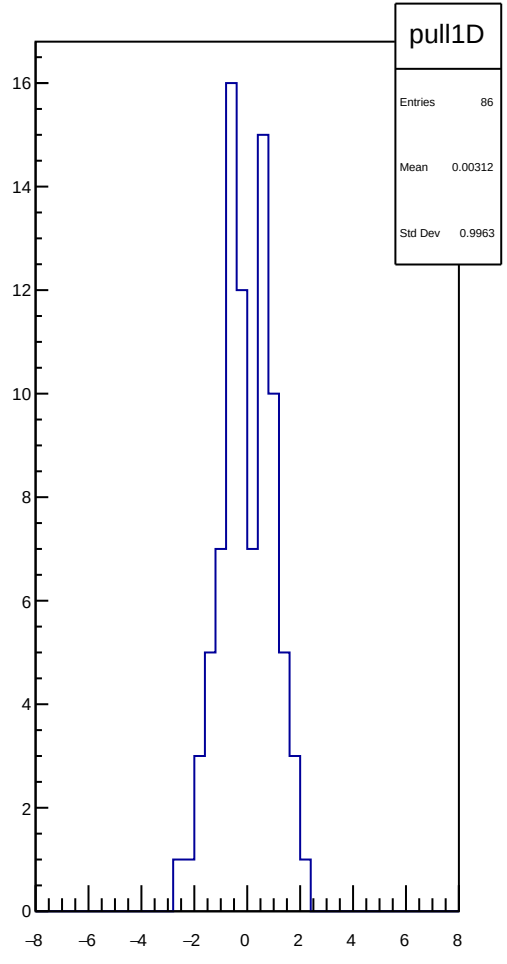

pull1D
Entries 86
Mean 0.003283
Std Dev 0.9928

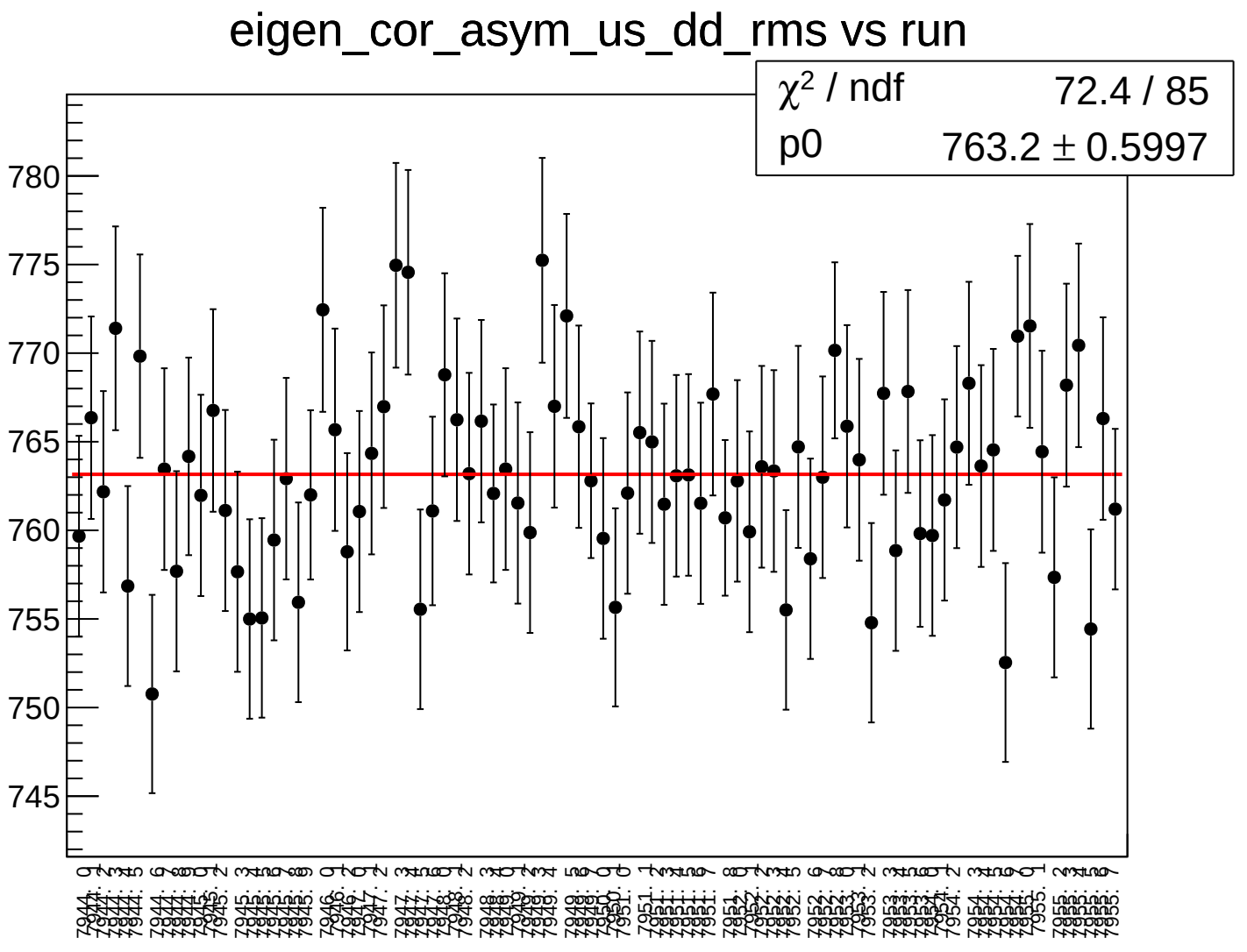

overload_cor_asym_us_dd_rms vs run
χ² / ndf 72.12 / 85
p0 762.6 ± 0.5993
780
775
770
765
760
755
750
745

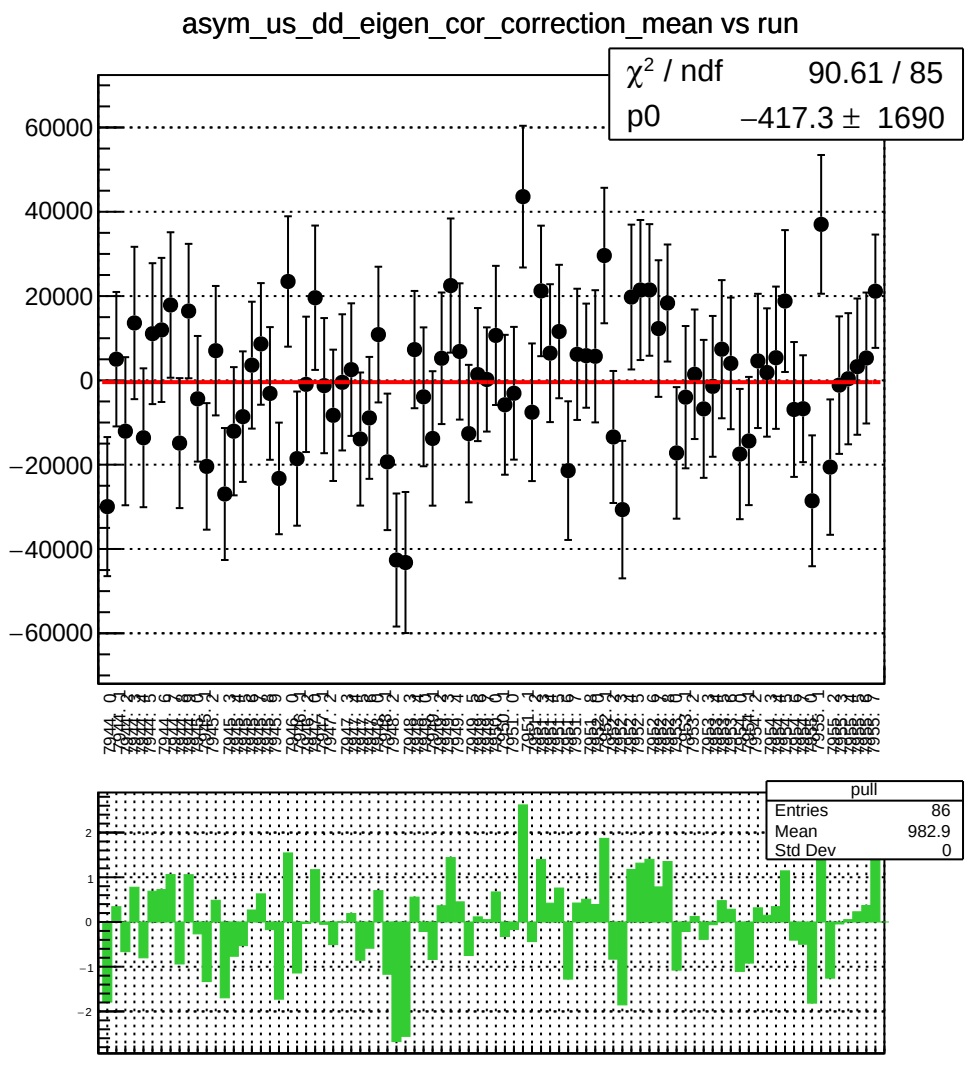

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 90.39 / 85
p0 −373.3 ± 1691
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 959.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.004073
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

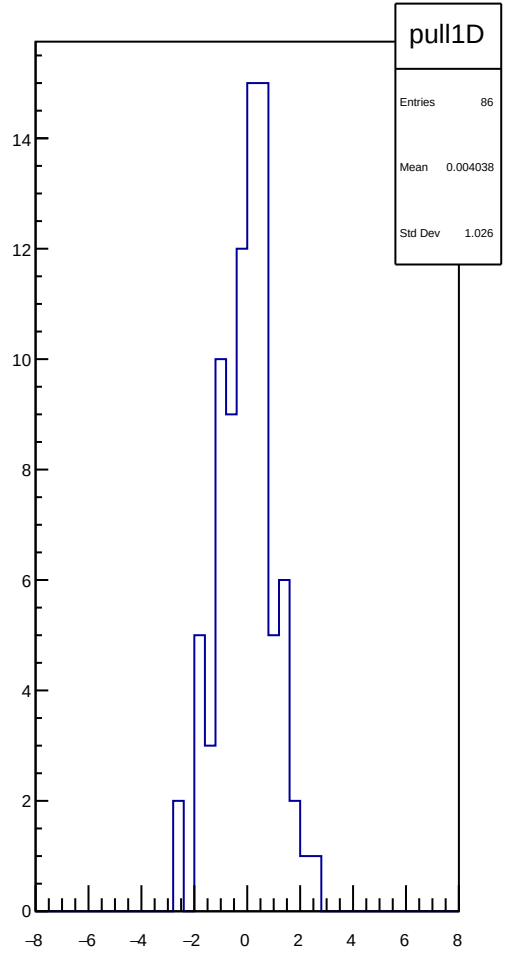

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2320 / 85
p0 1520 ± 1.196
1750
1700
1650
1600
1550
1500
1450
1400
1350

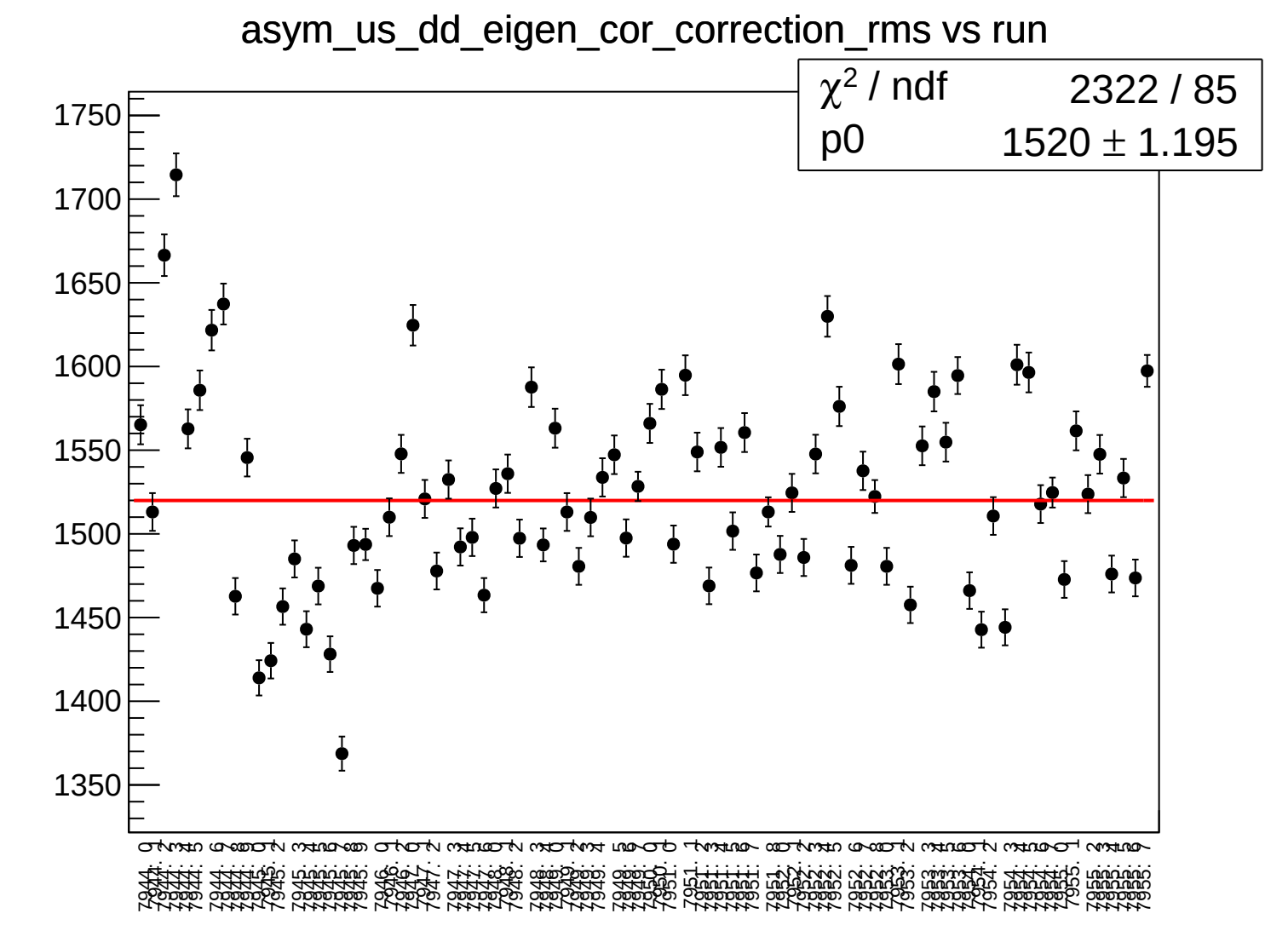

eigen_cor_asym_us_dd_mean vs run
χ^2 / ndf 85.36 / 85
p0 992.4 ± 848.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −785.5
Std Dev 0
2
1
0
−1
−2

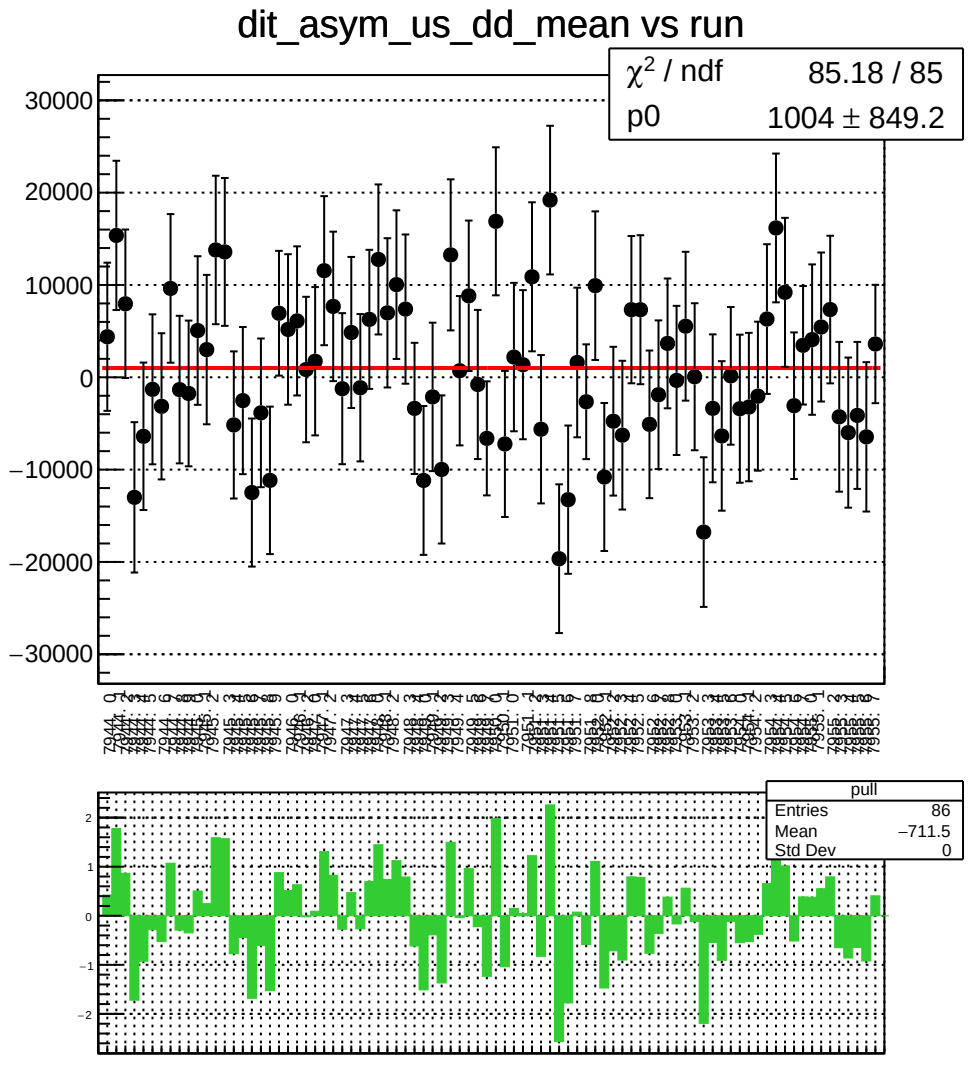

pull1D
Entries 86
Mean 0.00312
Std Dev 0.9963
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

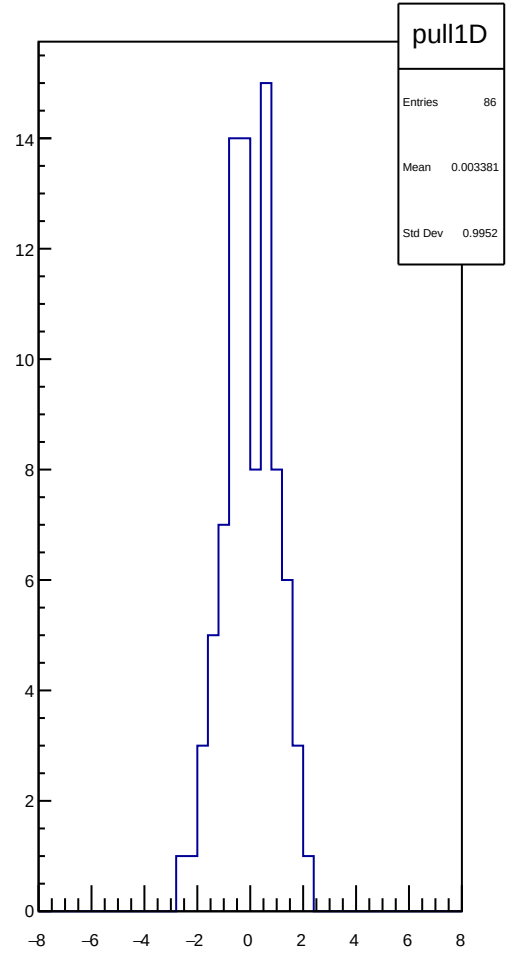

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 72.4 / 85
p0 763.2 ± 0.5997
780
775
770
765
760
755
750
745

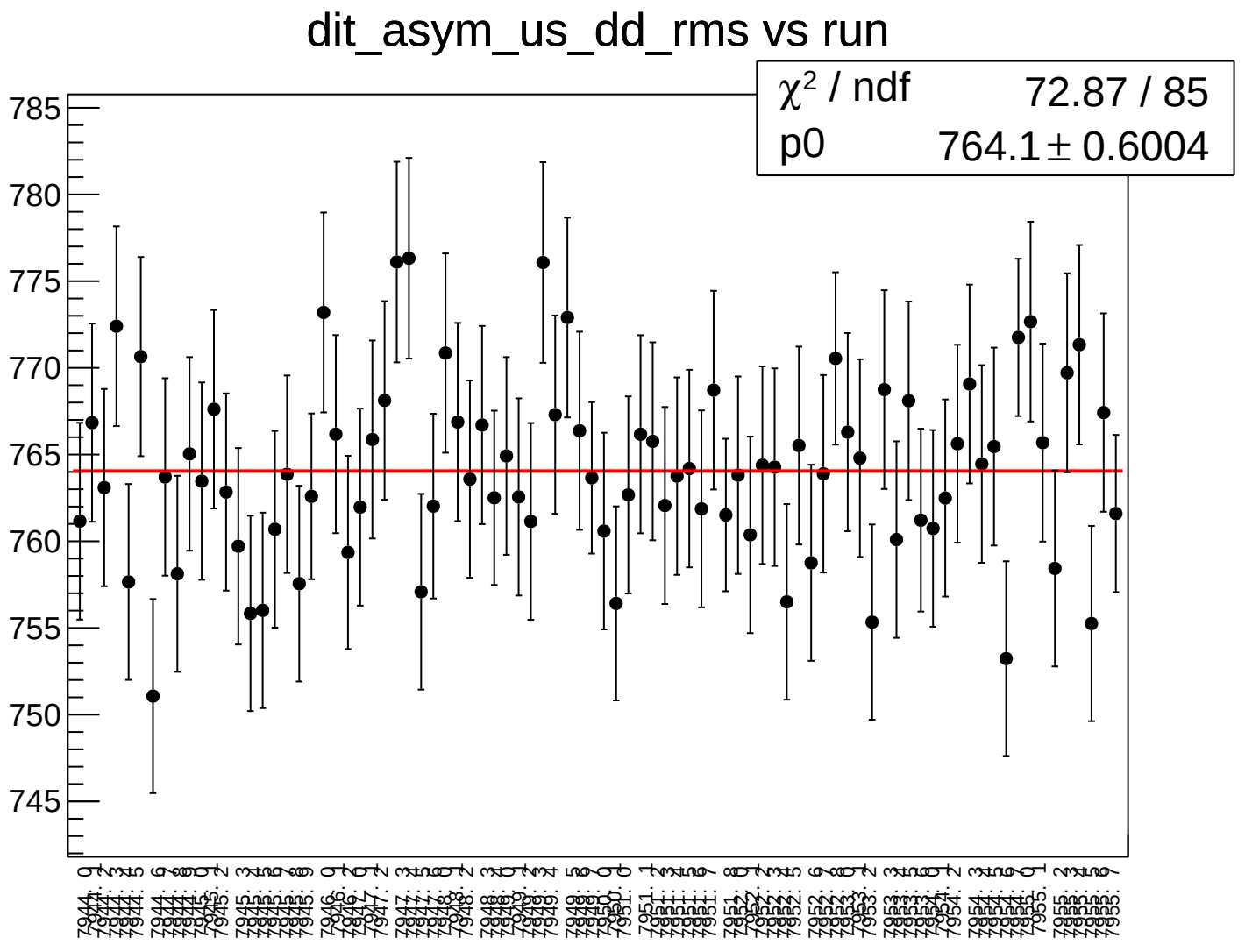

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.61 / 85
p0 −417.3 ± 1690
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 982.9
Std Dev 0
2
1
0
−1
−2

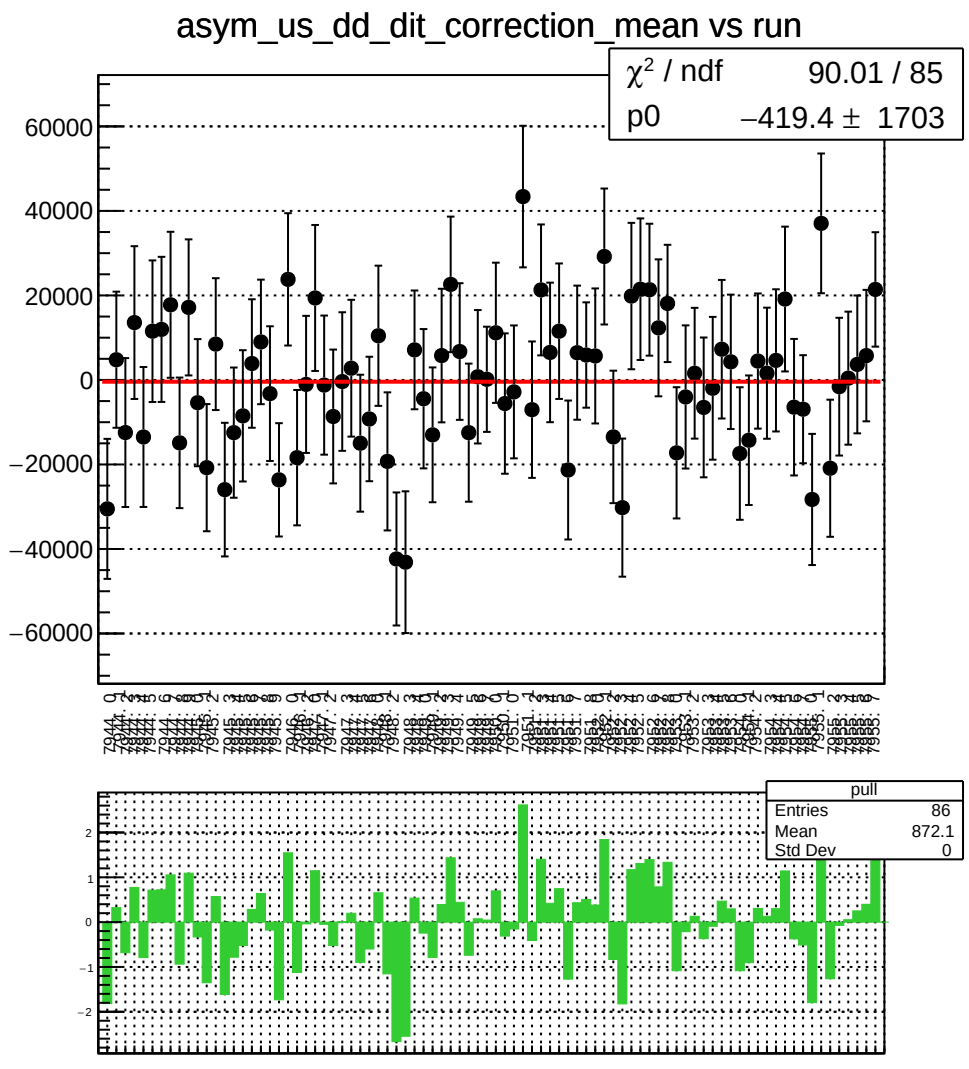

pull1D
Entries 86
Mean 0.004038
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

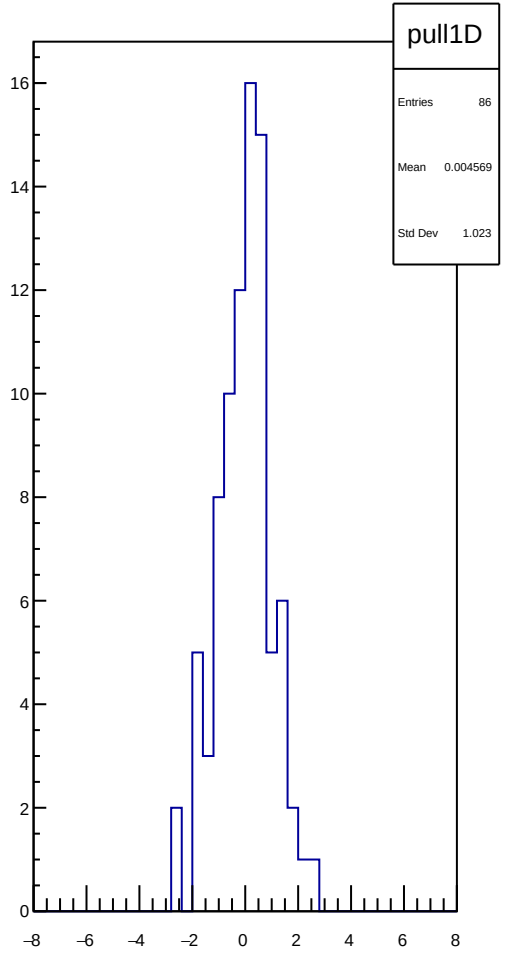

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 2322 / 85
p0 1520 ± 1.195
1750
1700
1650
1600
1550
1500
1450
1400
1350

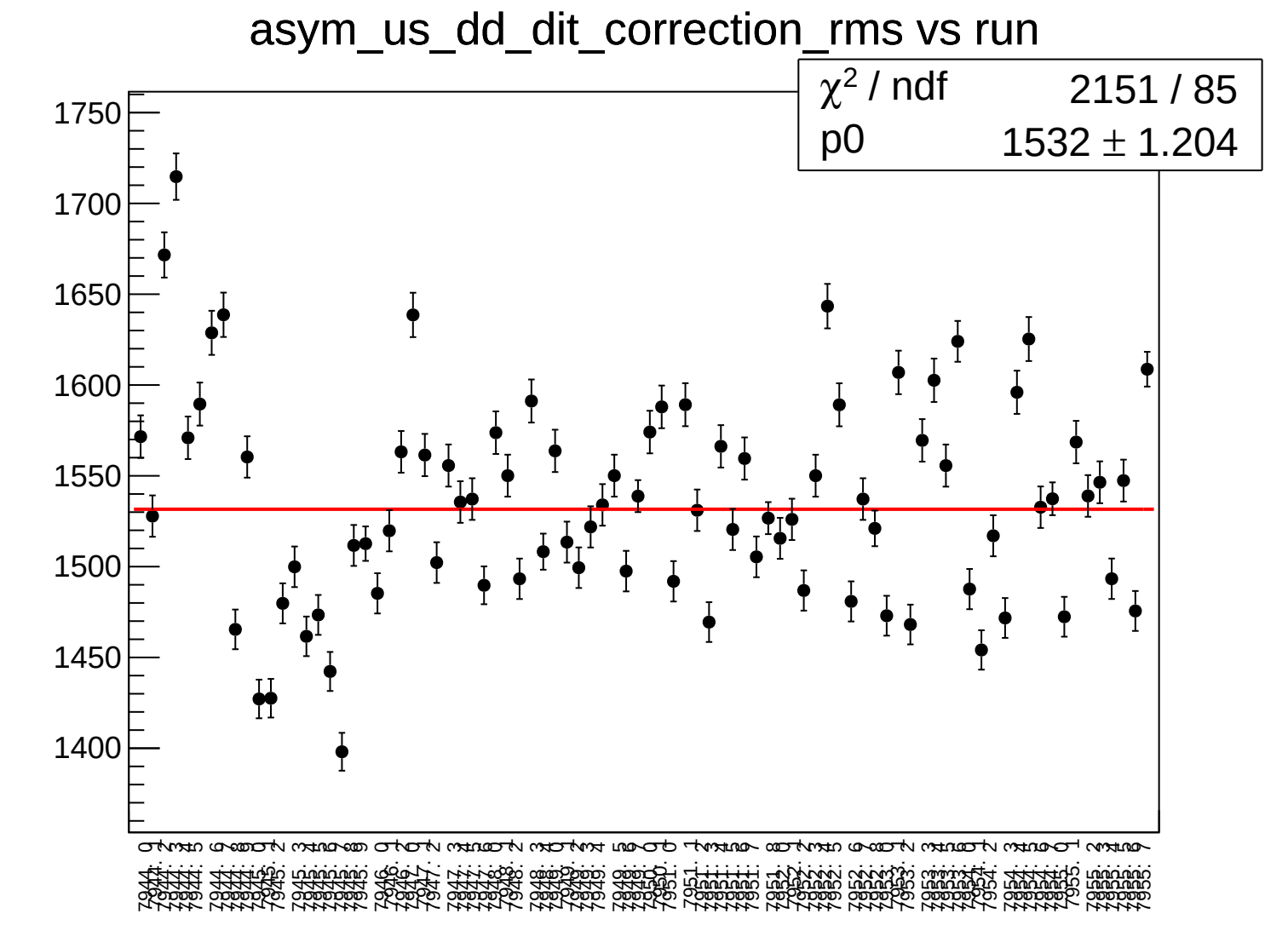

dit_asym_us_dd_mean vs run
χ² / ndf 85.18 / 85
p0 1004 ± 849.2
pull
Entries 86
Mean −711.5
Std Dev 0

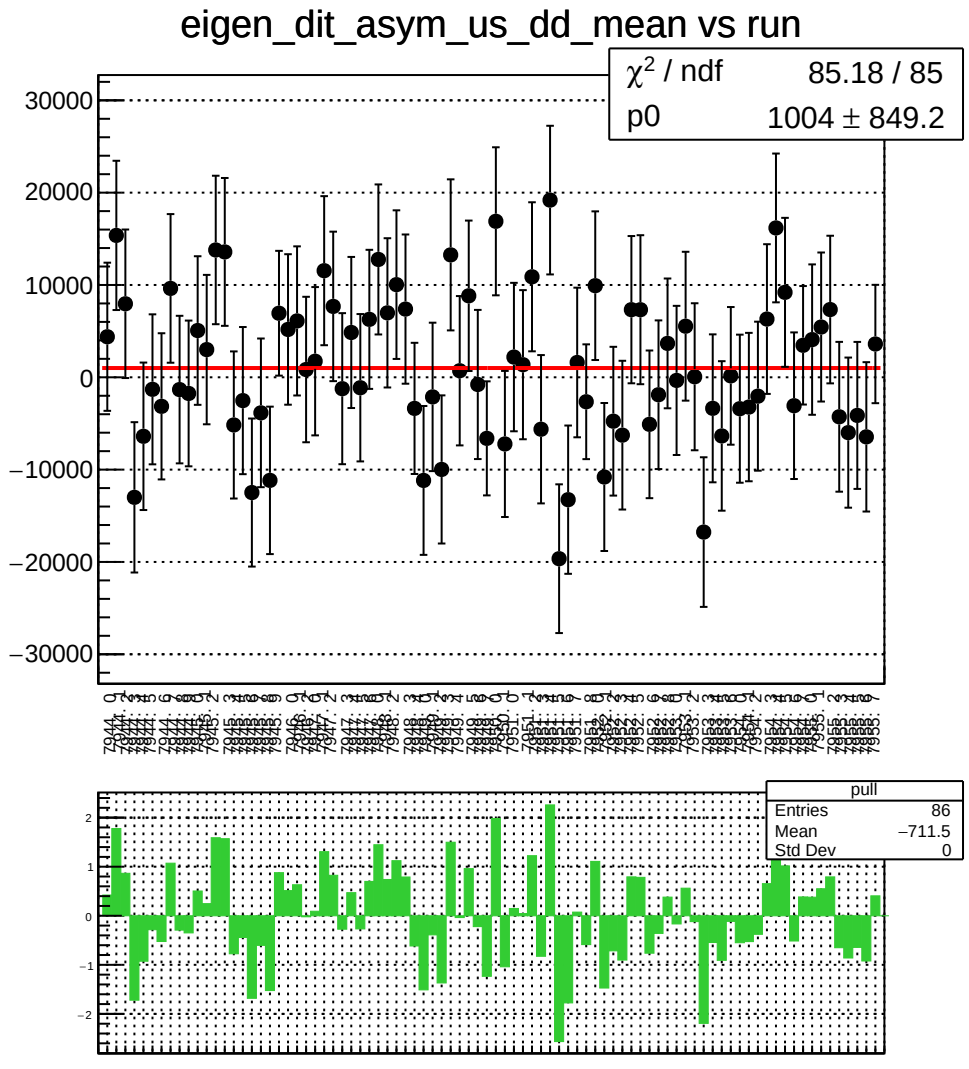

pull1D
Entries 86
Mean 0.003381
Std Dev 0.9952

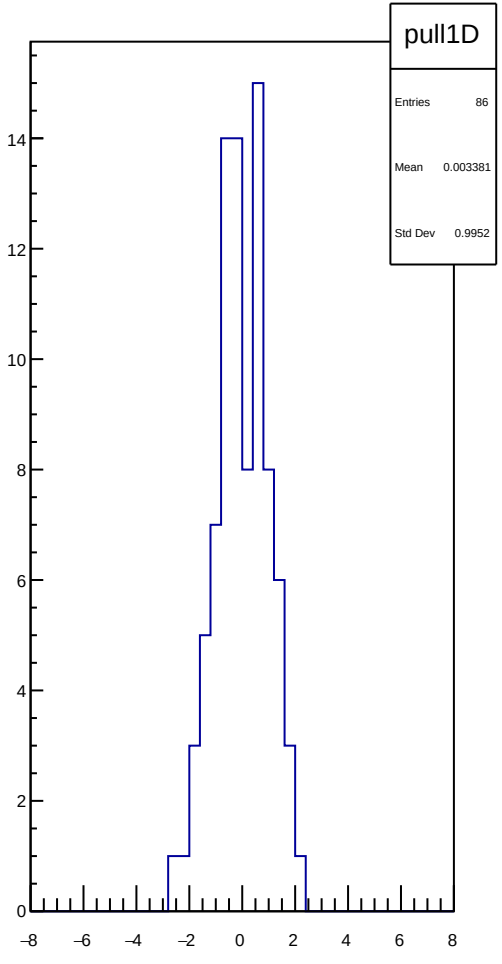

dit_asym_us_dd_rms vs run
χ² / ndf 72.87 / 85
p0 764.1 ± 0.6004
785
780
775
770
765
760
755
750
745

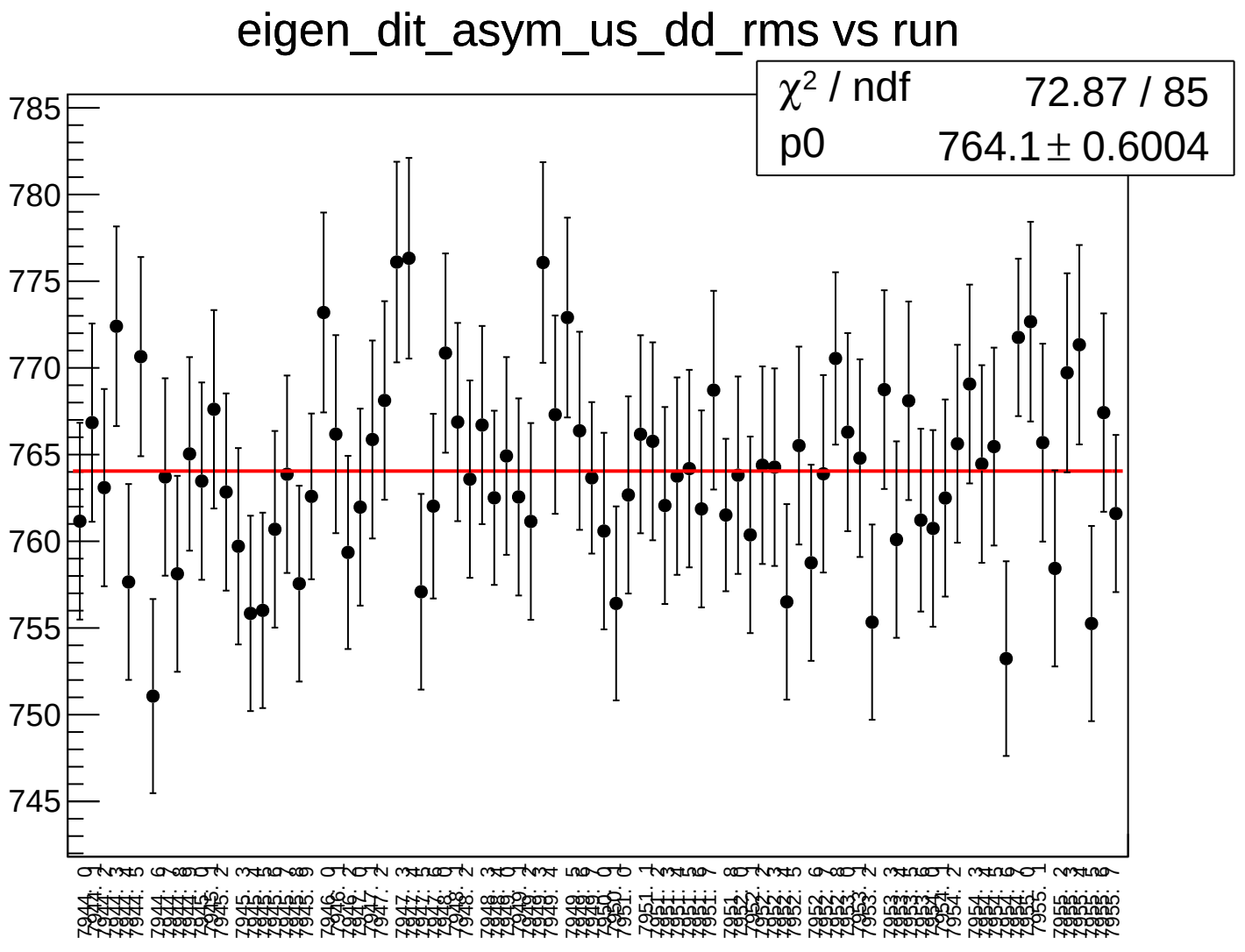

asym_us_dd_dit_correction_mean vs run
χ² / ndf 90.01 / 85
p0 −419.4 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 872.1
Std Dev 0
2
1
0
−1
−2

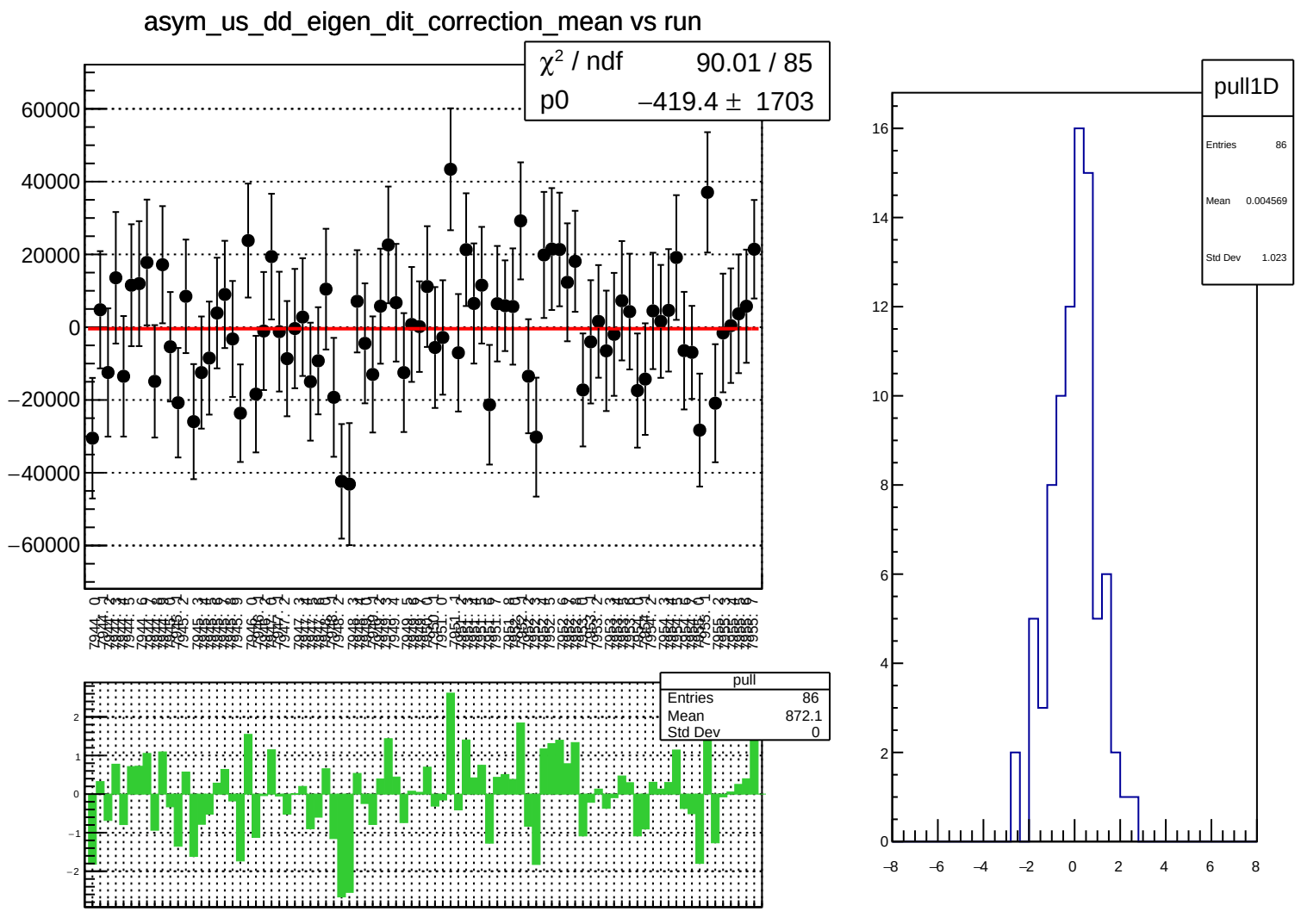

pull1D
Entries 86
Mean 0.004569
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

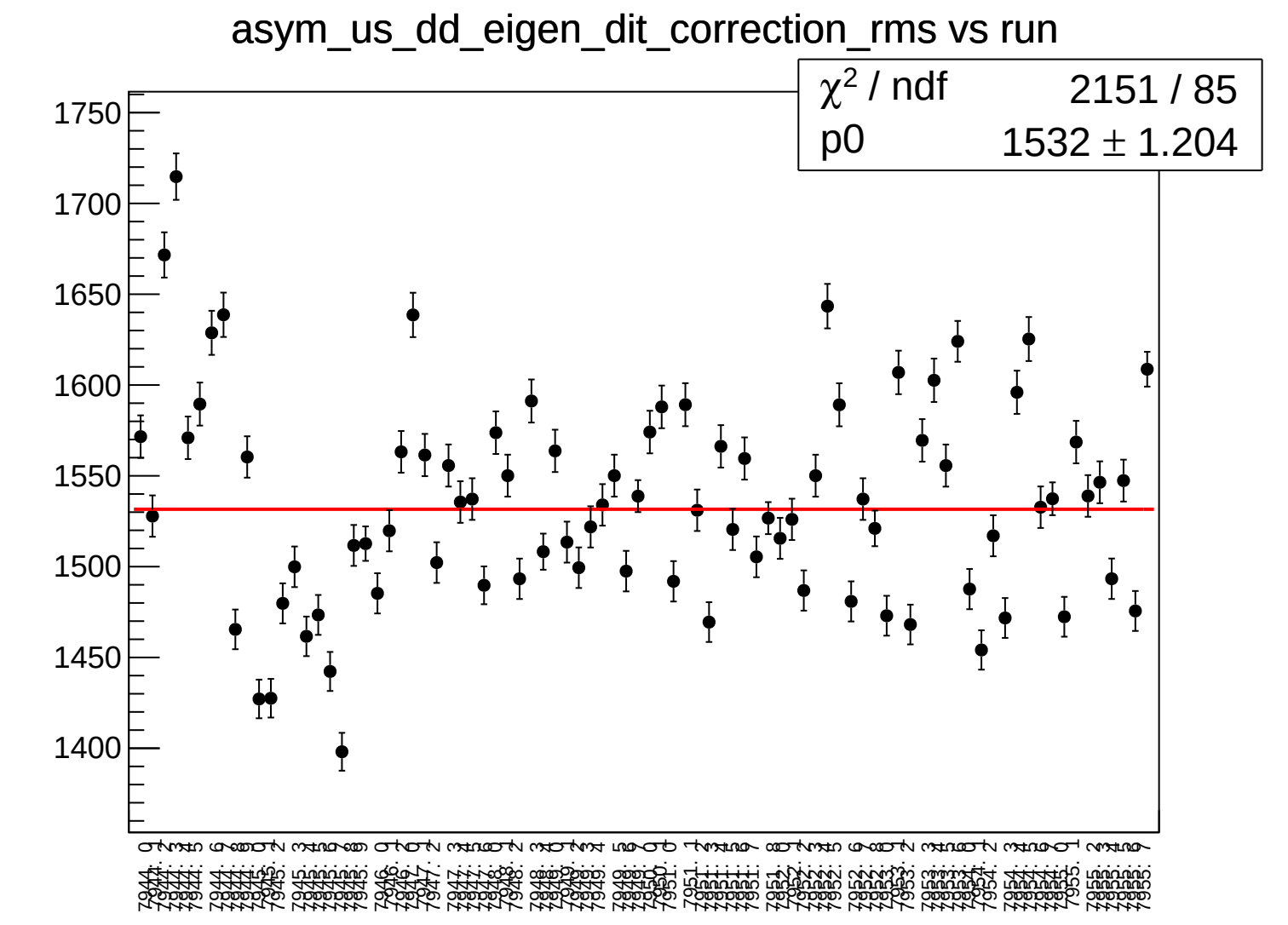

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2151 / 85
p0 1532 ± 1.204
1750
1700
1650
1600
1550
1500
1450
1400

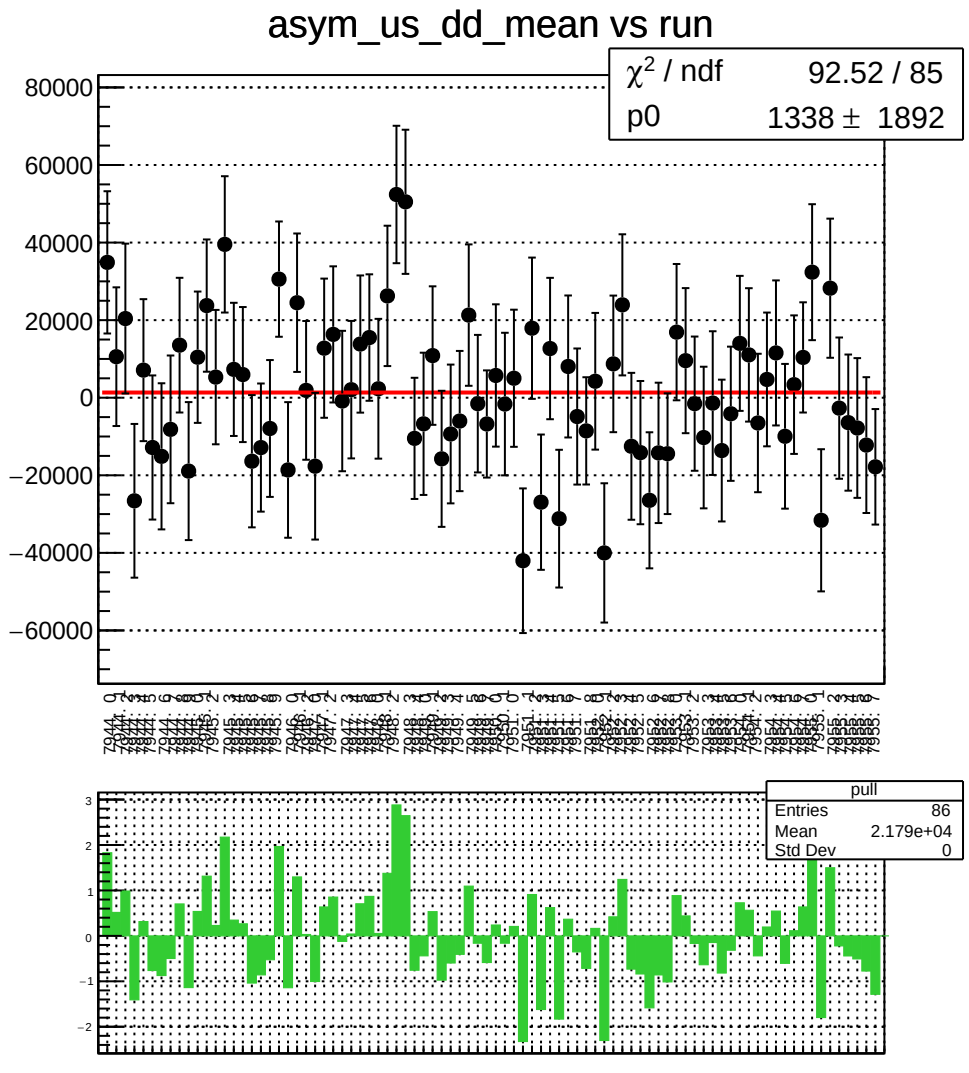

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 85.18 / 85
p0 1004 ± 849.2
pull
Entries 86
Mean −711.5
Std Dev 0

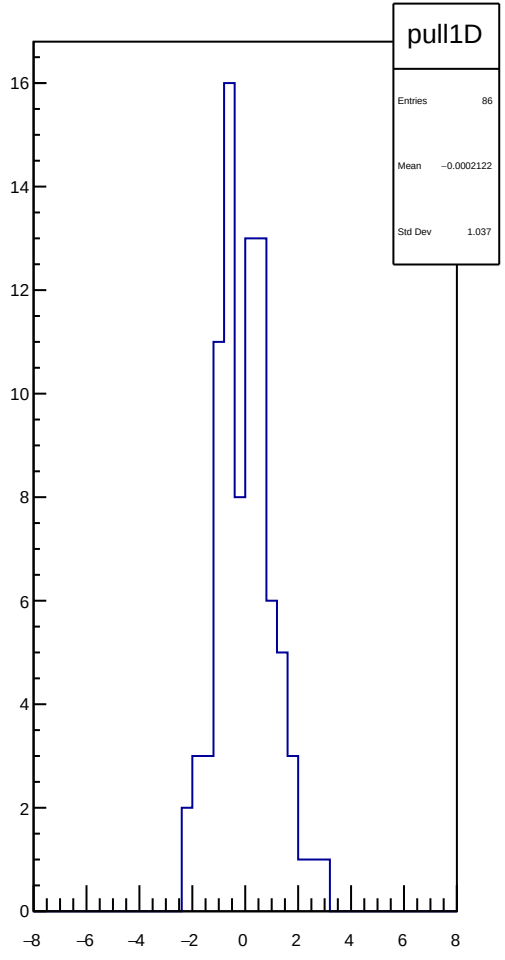

pull1D
Entries 86
Mean 0.003381
Std Dev 0.9952

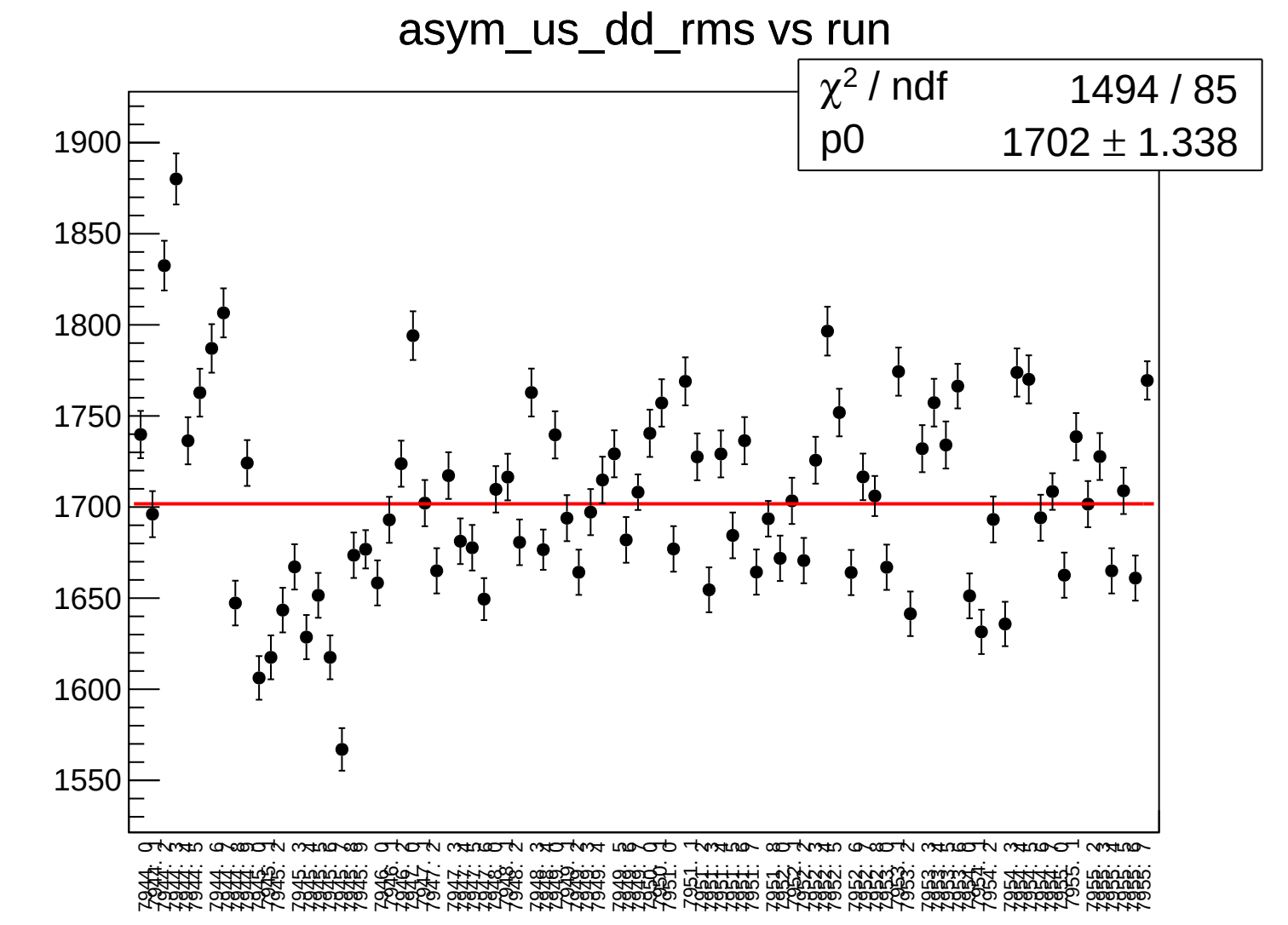

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 72.87 / 85
p0 764.1 ± 0.6004
785
780
775
770
765
760
755
750
745

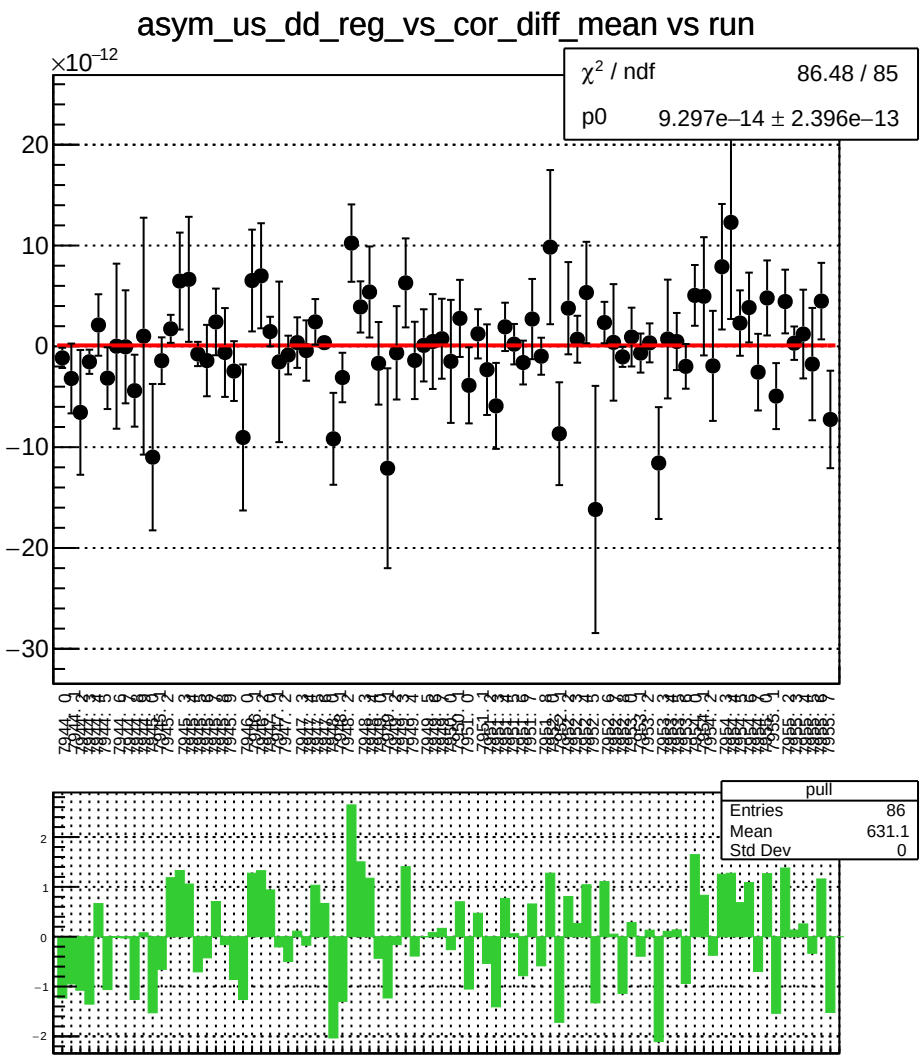

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.01 / 85
p0 −419.4 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 872.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.004569
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

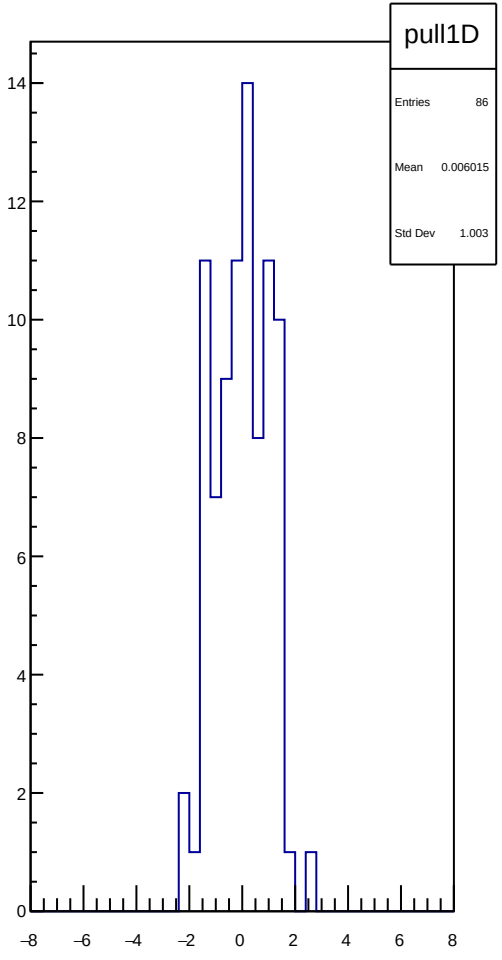

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 2151 / 85
p0 1532 ± 1.204
1750
1700
1650
1600
1550
1500
1450
1400

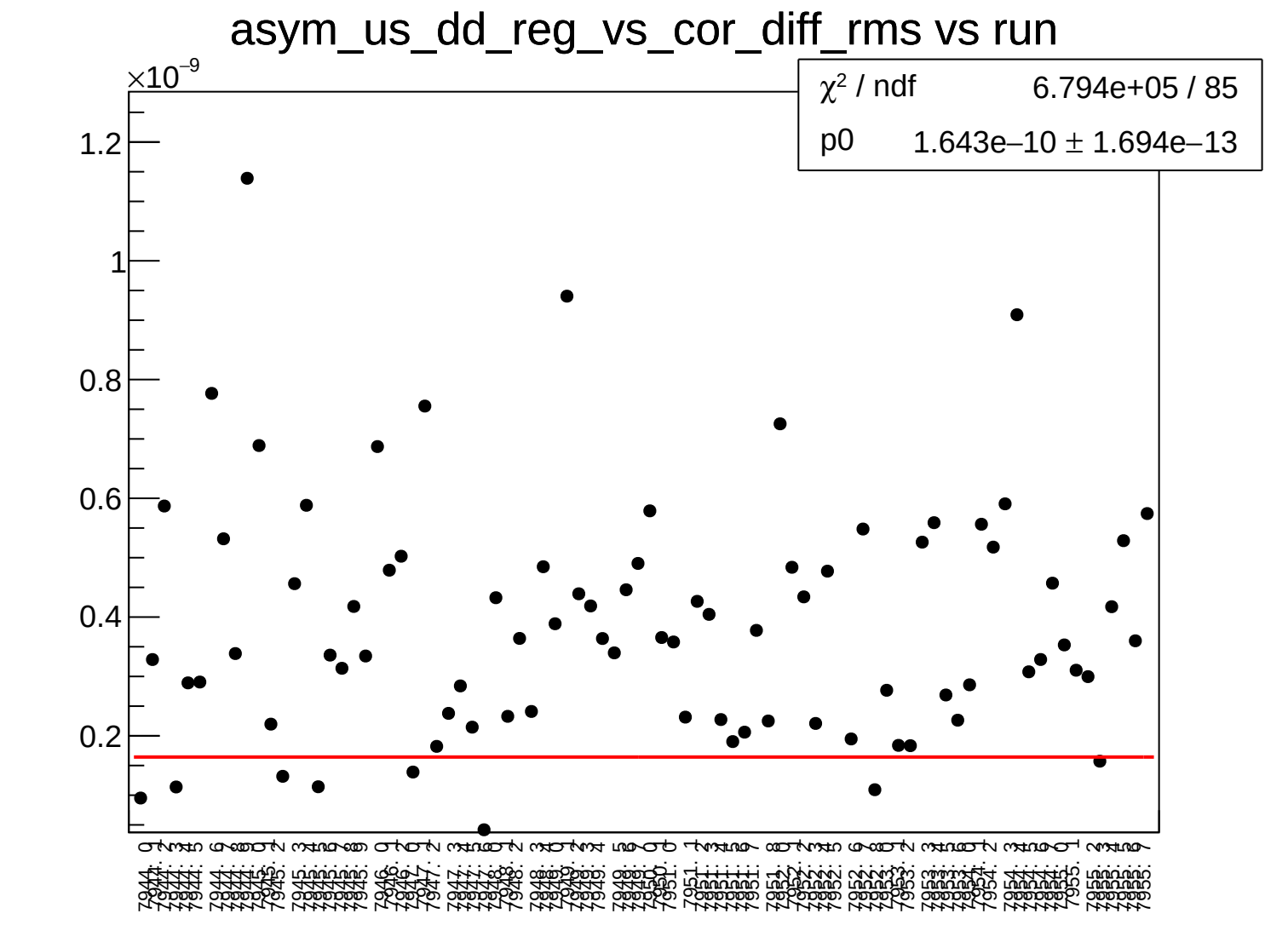

asym_us_dd_mean vs run
χ² / ndf 92.52 / 85
p0 1338 ± 1892
pull
Entries 86
Mean 2.179e+04
Std Dev 0

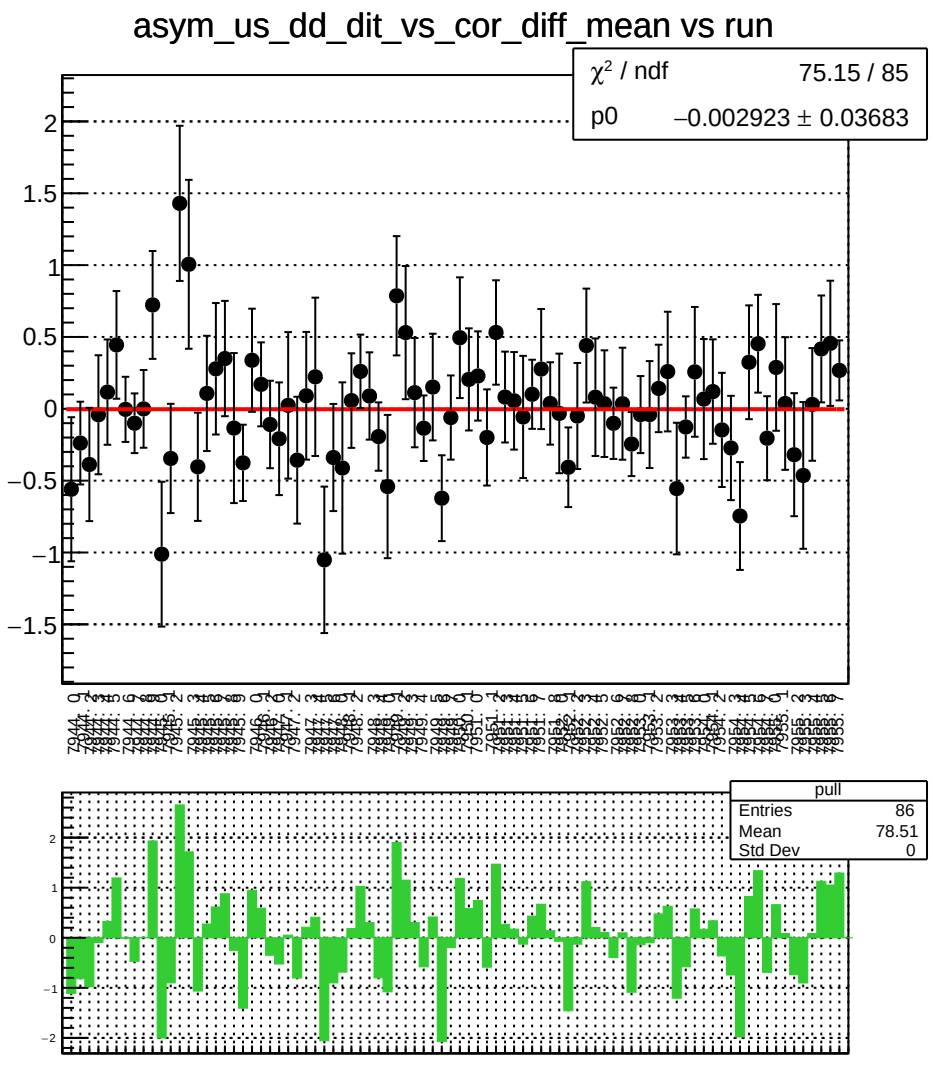

pull1D
Entries 86
Mean −0.0002122
Std Dev 1.037

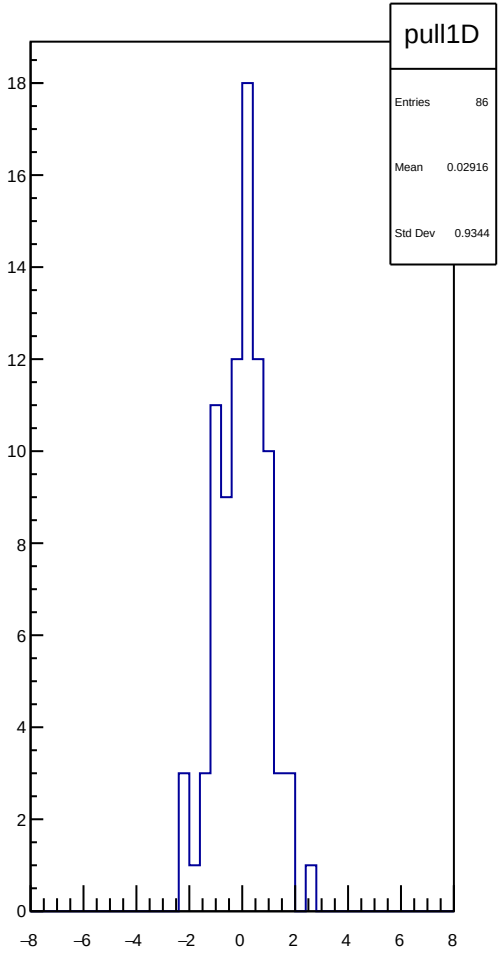

asym_us_dd_rms vs run
χ^2 / ndf 1494 / 85
p0 1702 ± 1.338
1900
1850
1800
1750
1700
1650
1600
1550

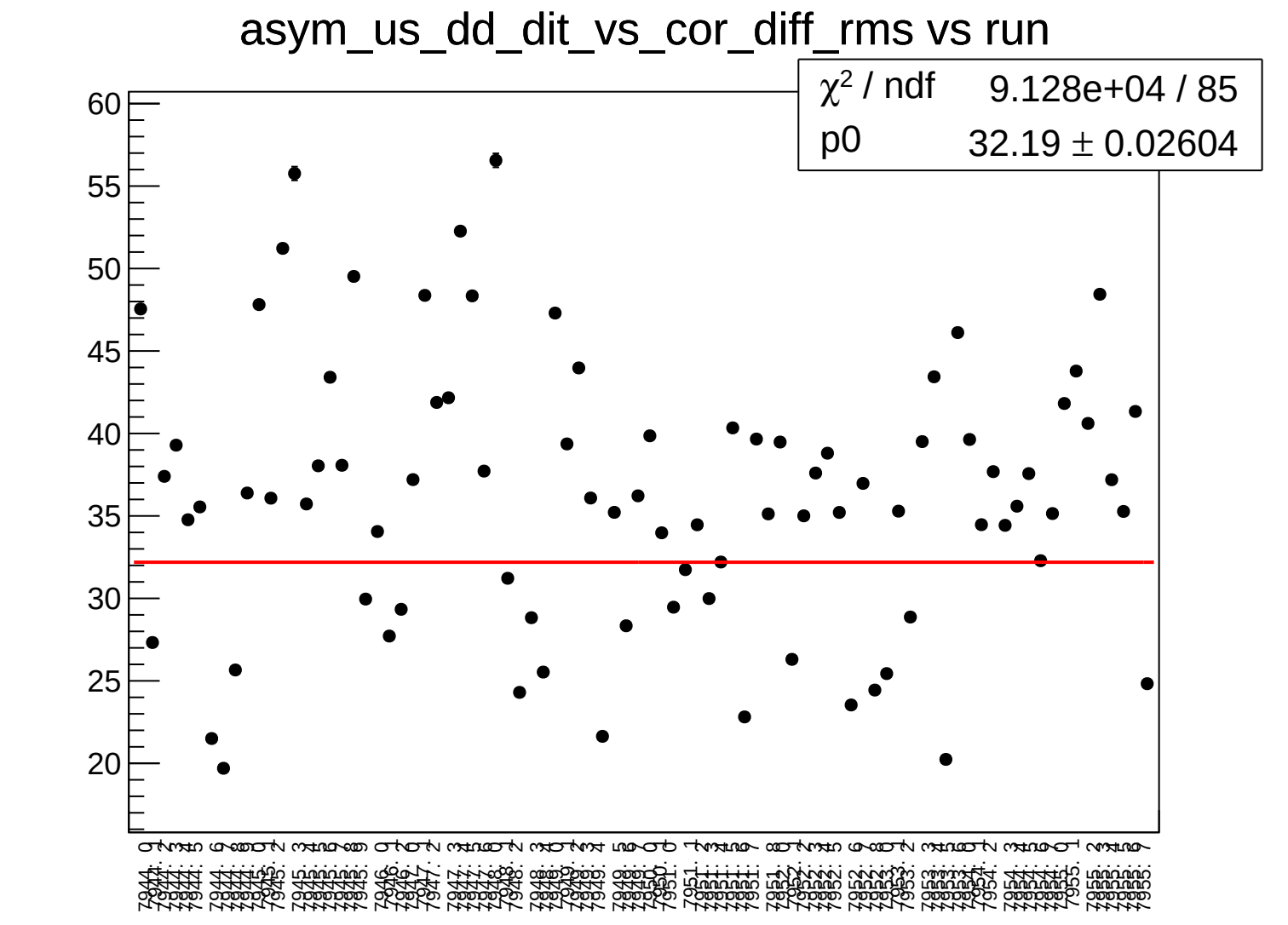

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.48 / 85
p0 9.297e−14 ± 2.396e−13
20
10
0
−10
−20
−30
pull
Entries 86
Mean 631.1
Std Dev 0
2
1
0
−1
−2

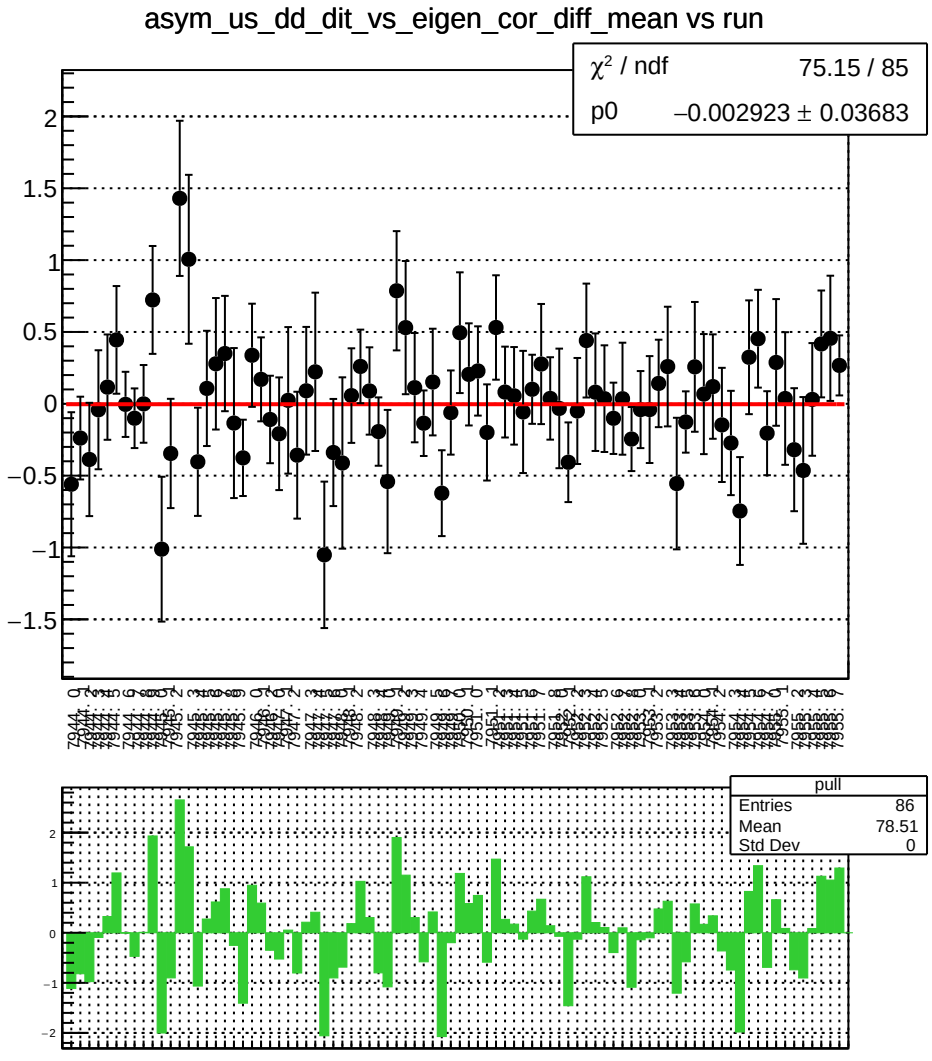

pull1D
Entries 86
Mean 0.006015
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

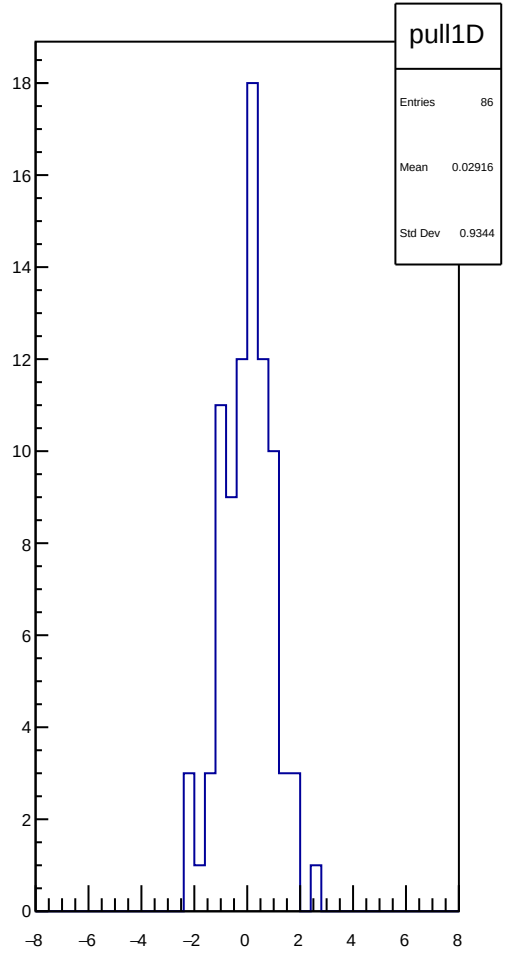

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.794e+05 / 85
p0 1.643e−10 ± 1.694e−13
1.2
1
0.8
0.6
0.4
0.2

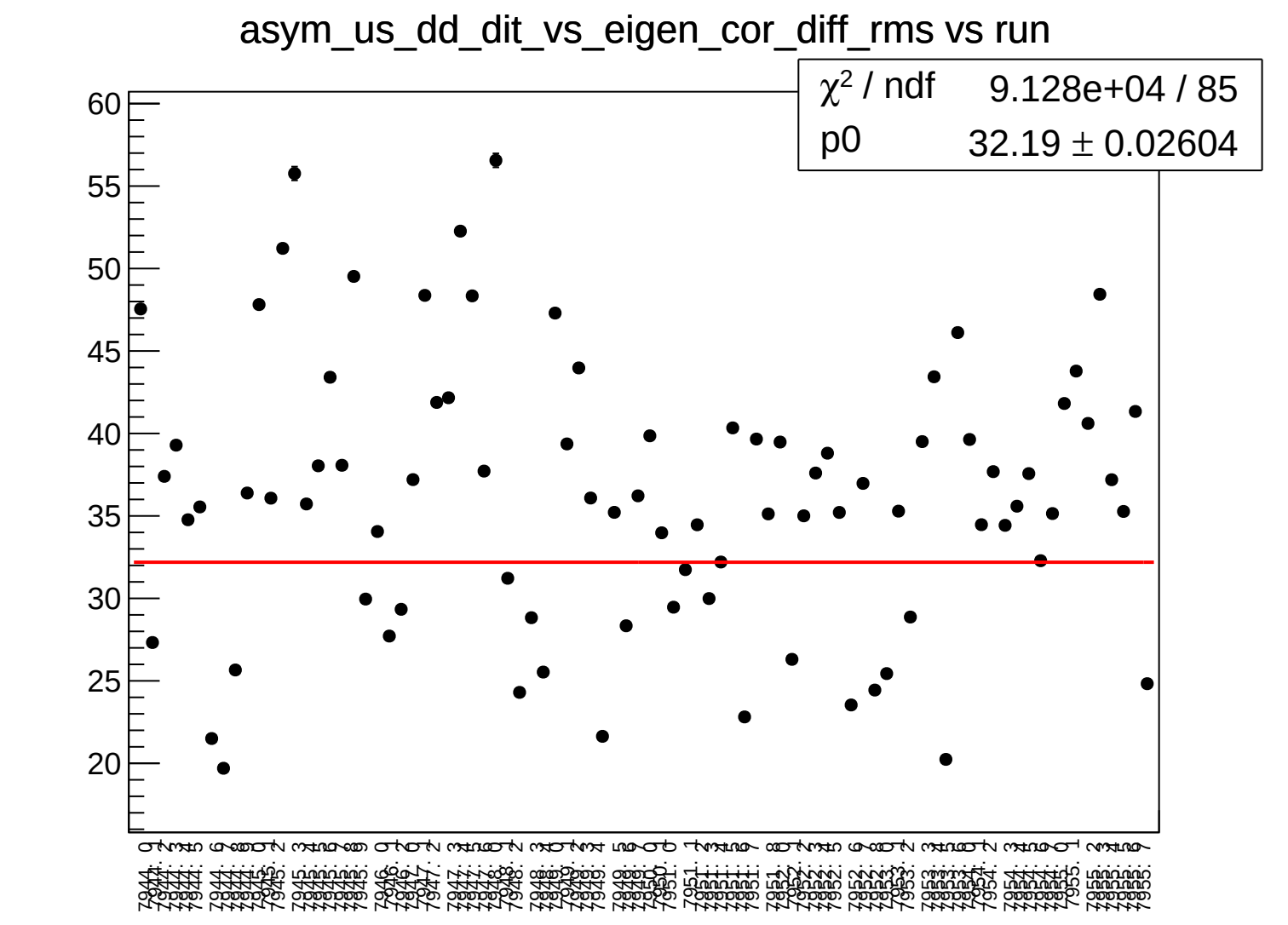

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.15 / 85
p0 −0.002923 ± 0.03683
pull
Entries 86
Mean 78.51
Std Dev 0

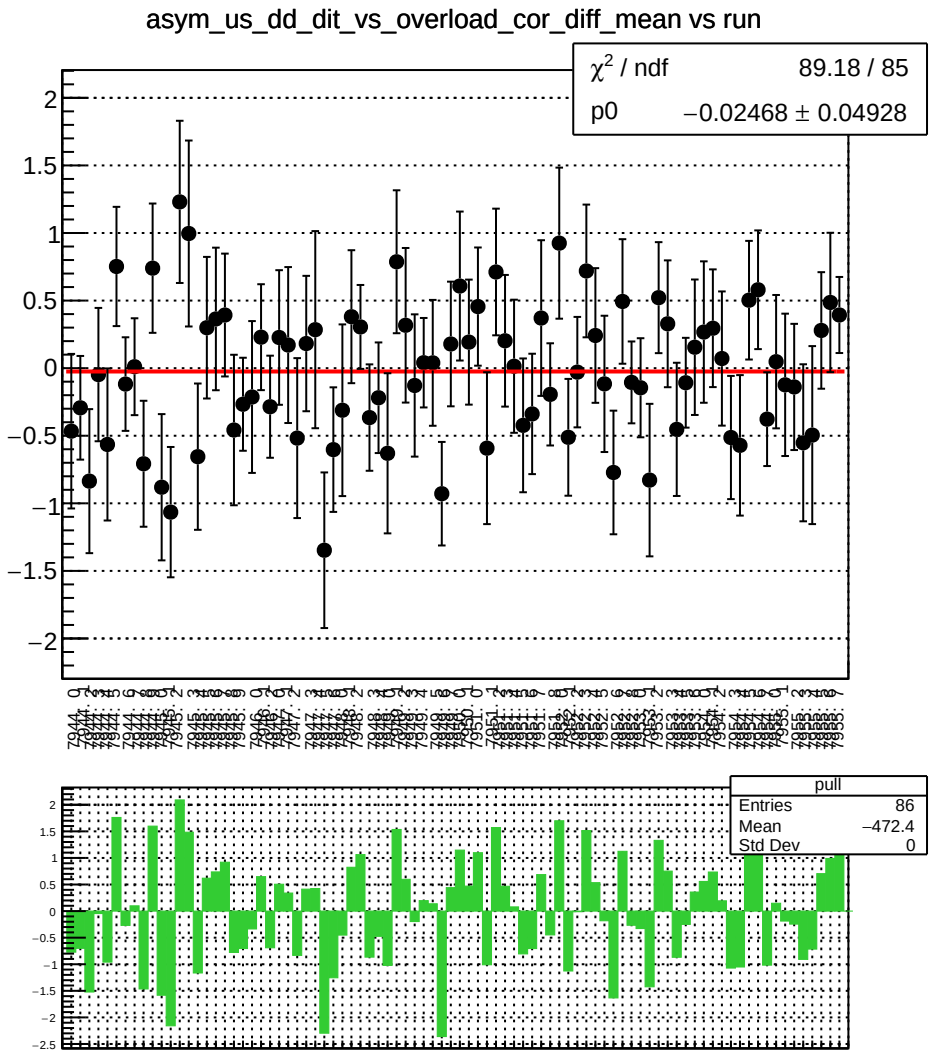

pull1D
Entries 86
Mean 0.02916
Std Dev 0.9344

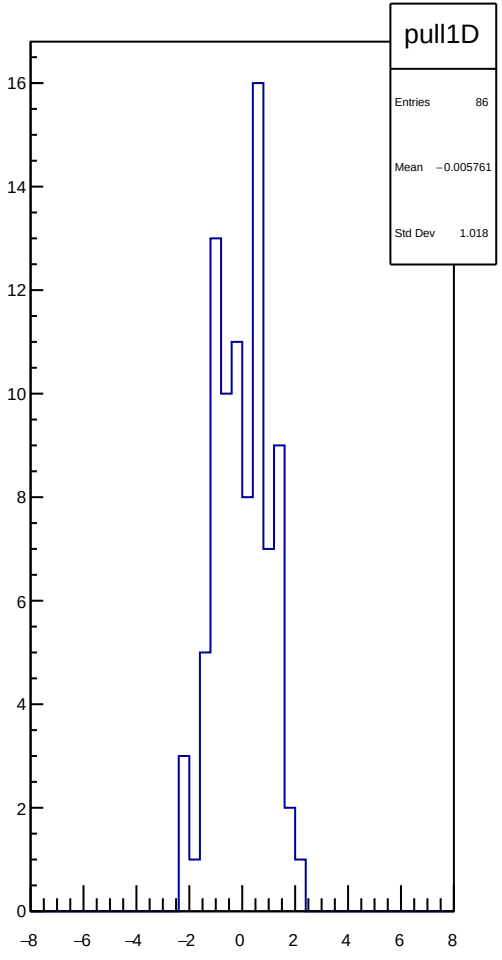

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.128e+04 / 85
p0 32.19 ± 0.02604
60
55
50
45
40
35
30
25
20

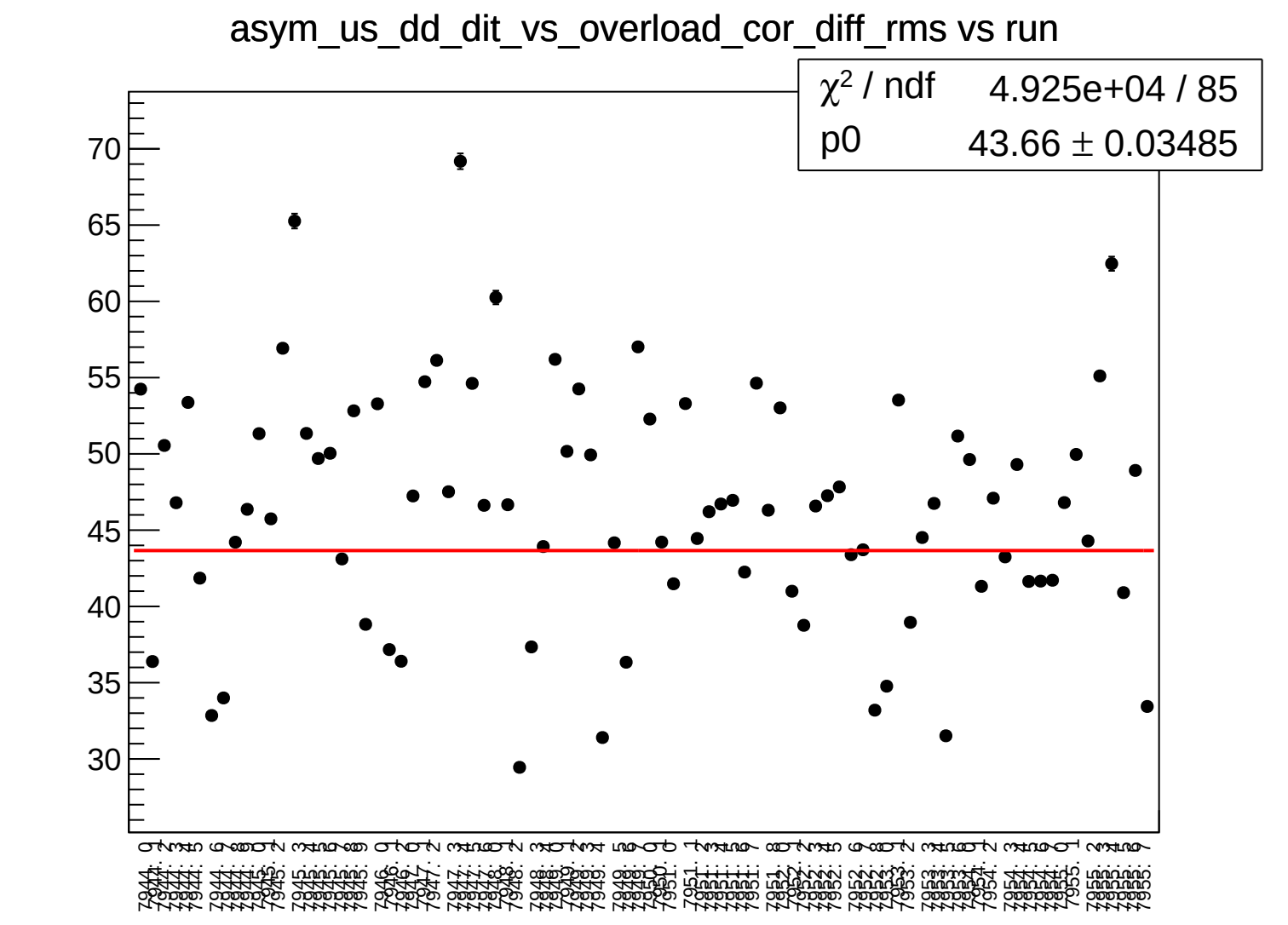

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.15 / 85
p0 −0.002923 ± 0.03683
pull
Entries 86
Mean 78.51
Std Dev 0

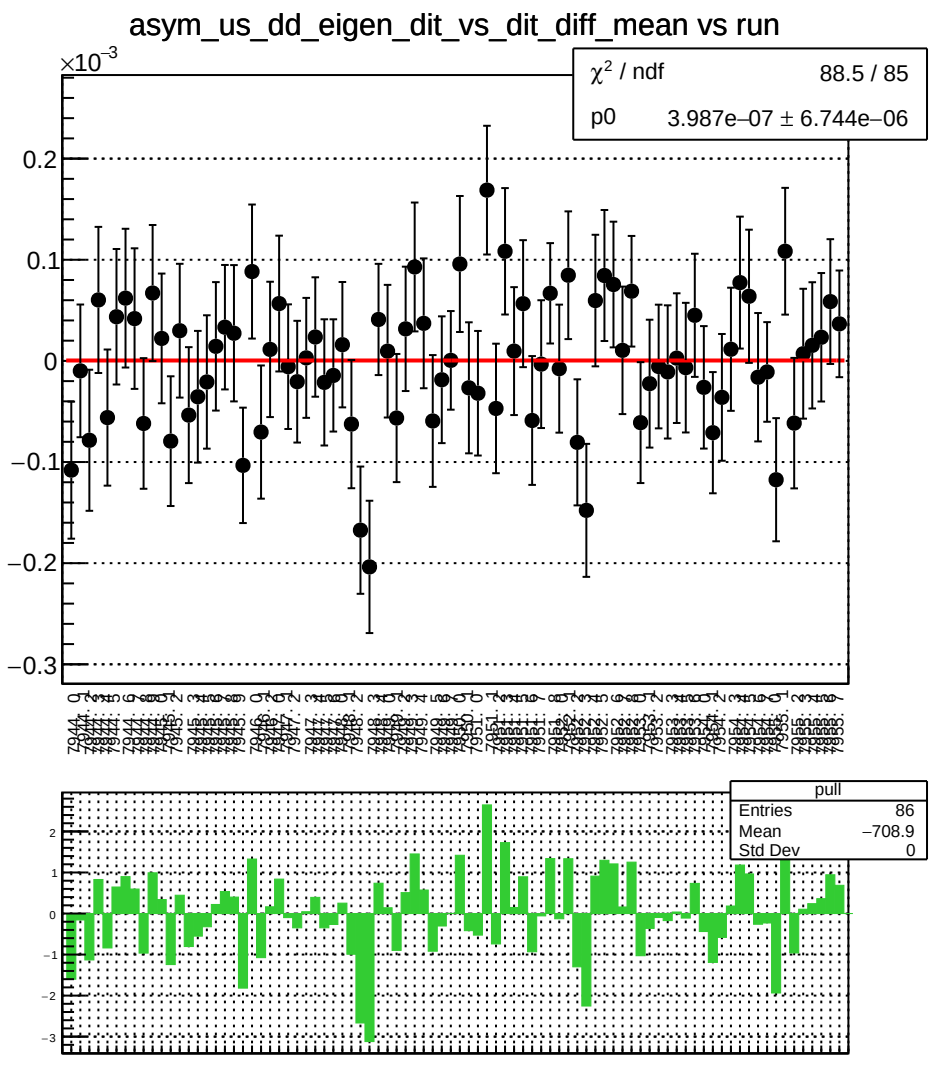

pull1D
Entries 86
Mean 0.02916
Std Dev 0.9344

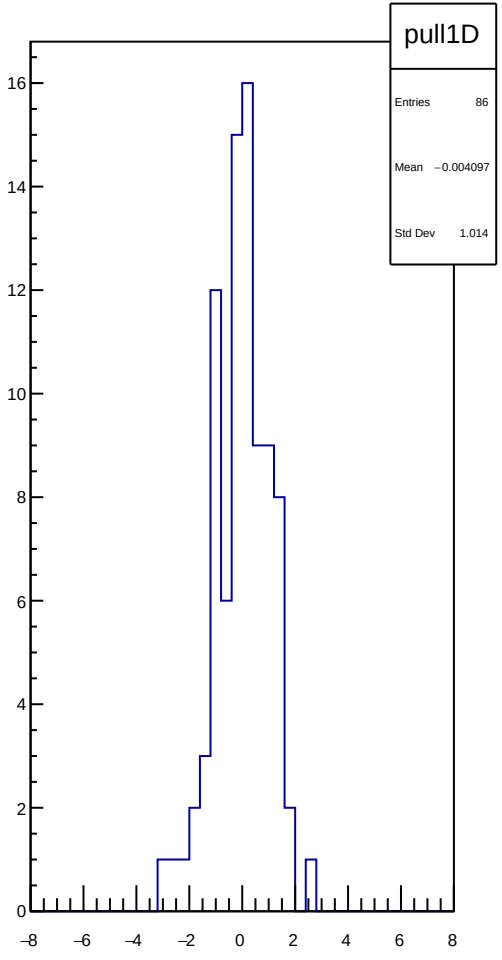

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.128e+04 / 85
p0 32.19 ± 0.02604
60
55
50
45
40
35
30
25
20

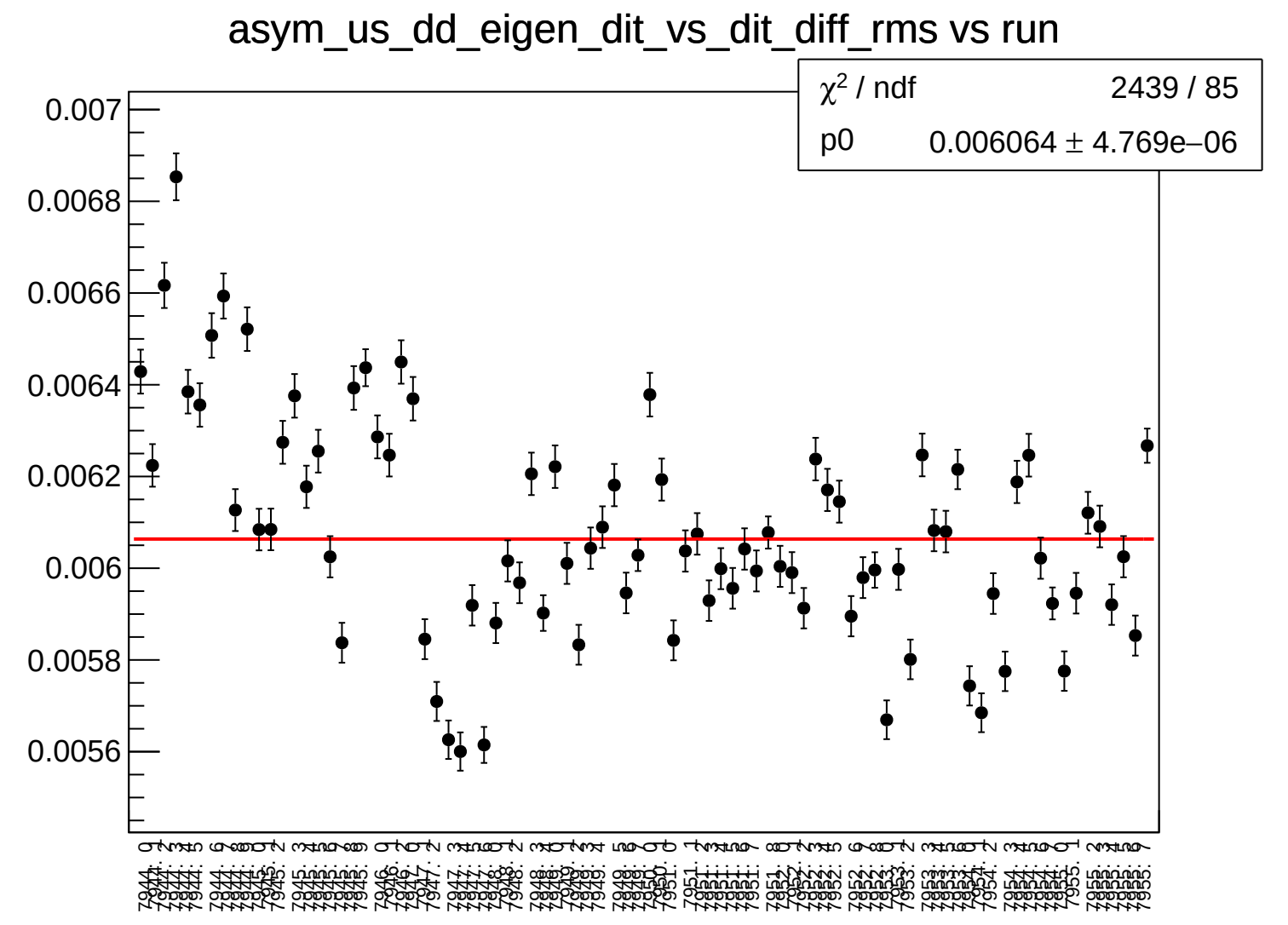

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 89.18 / 85
p0 −0.02468 ± 0.04928
pull
Entries 86
Mean −472.4
Std Dev 0

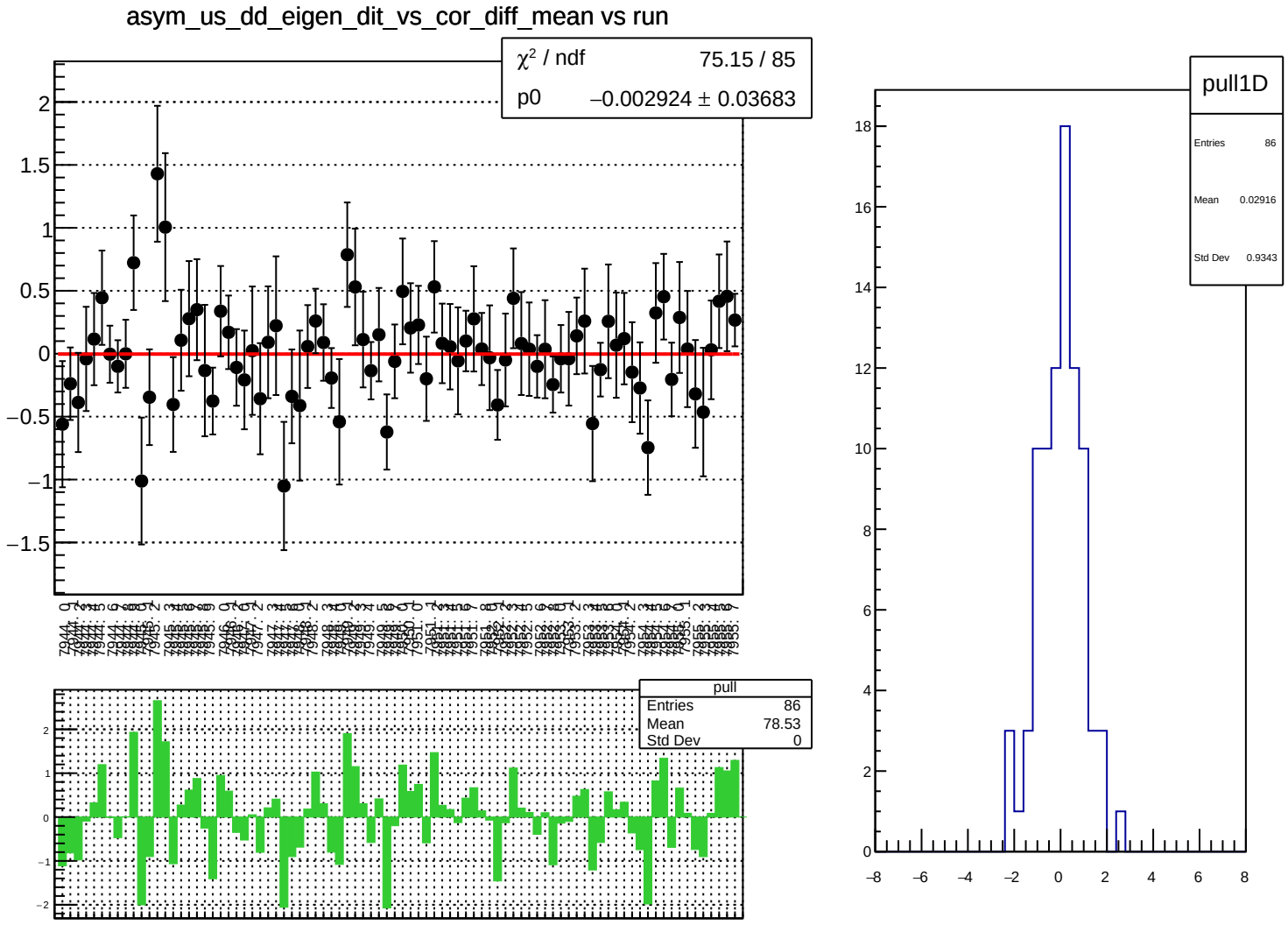

pull1D
Entries 86
Mean −0.005761
Std Dev 1.018

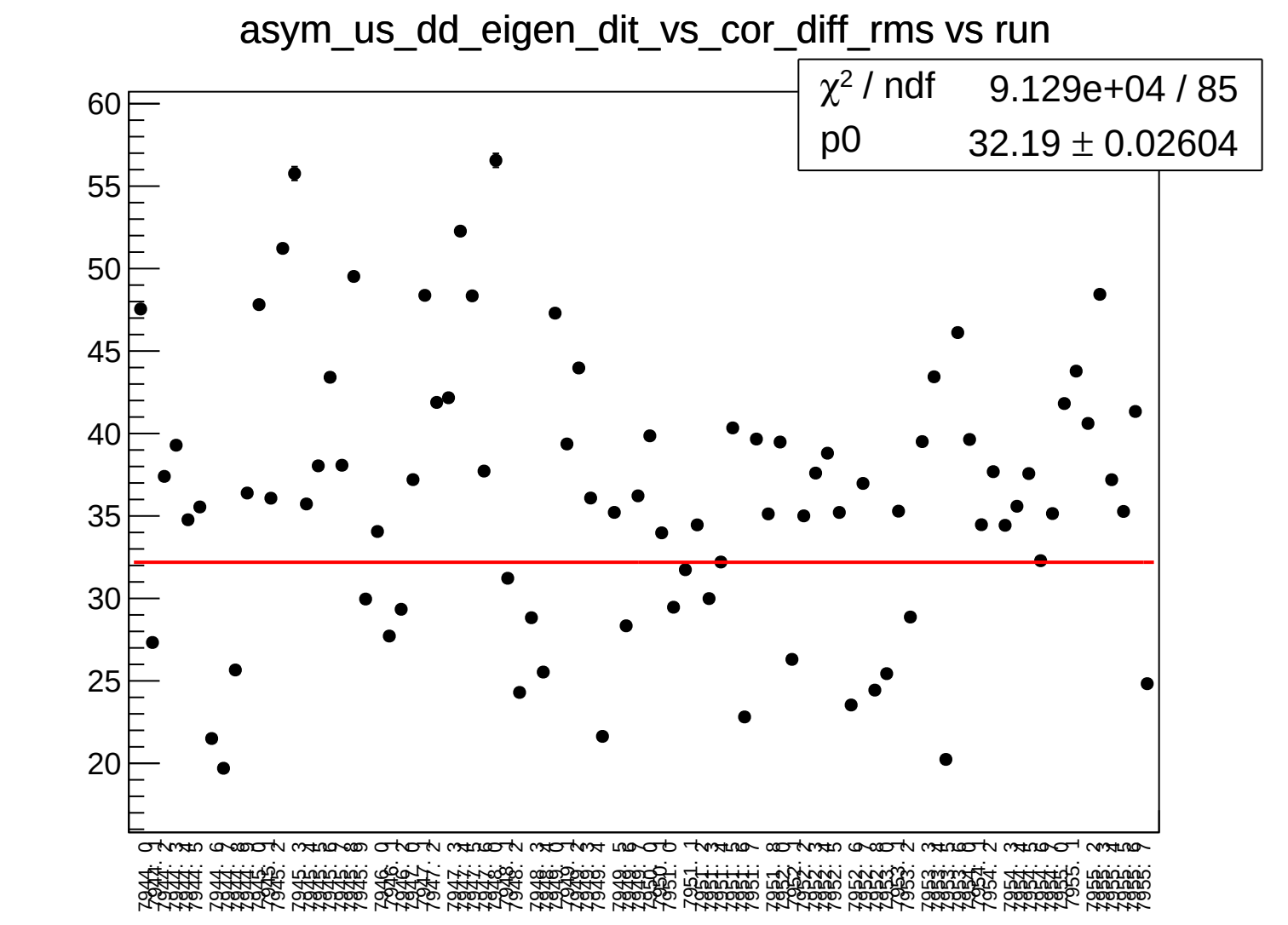

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.925e+04 / 85
p0 43.66 ± 0.03485
70
65
60
55
50
45
40
35
30

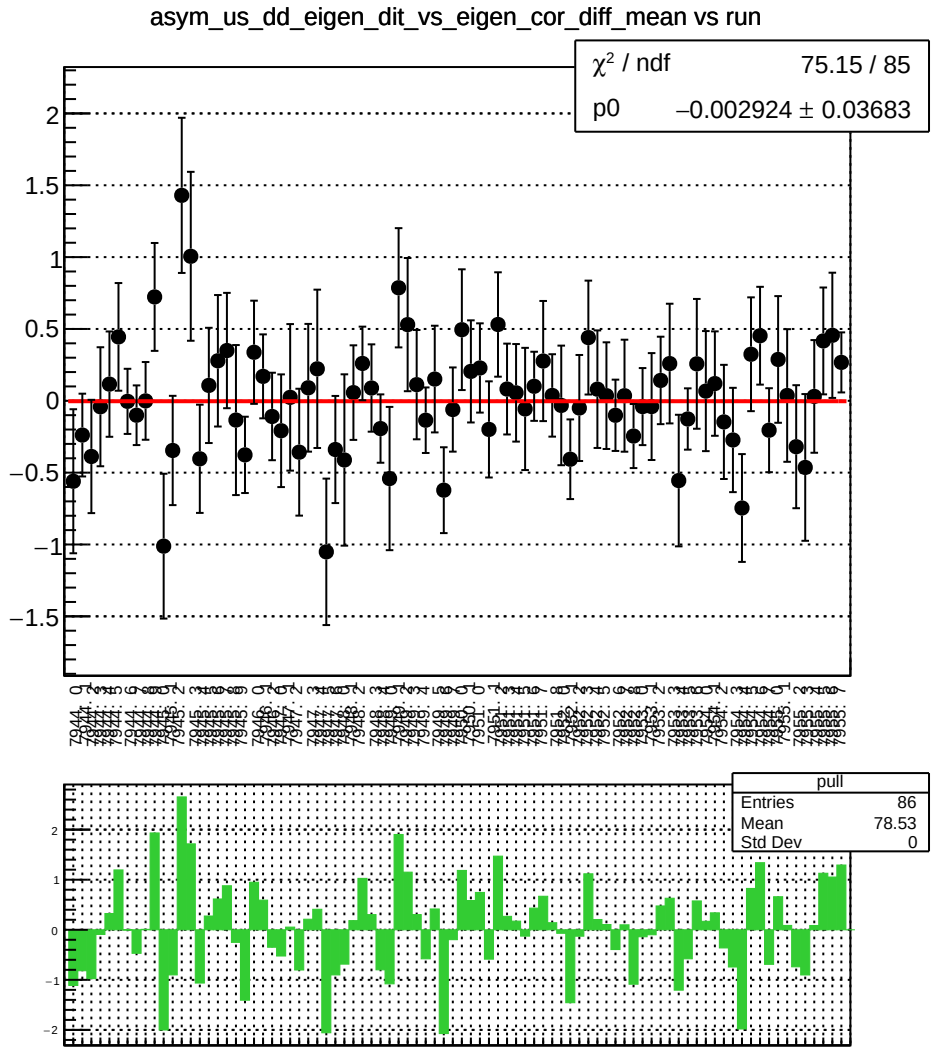

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.5 / 85
p0 3.987e−07 ± 6.744e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 86
Mean −708.9
Std Dev 0
2
1
0
−1
−2
−3

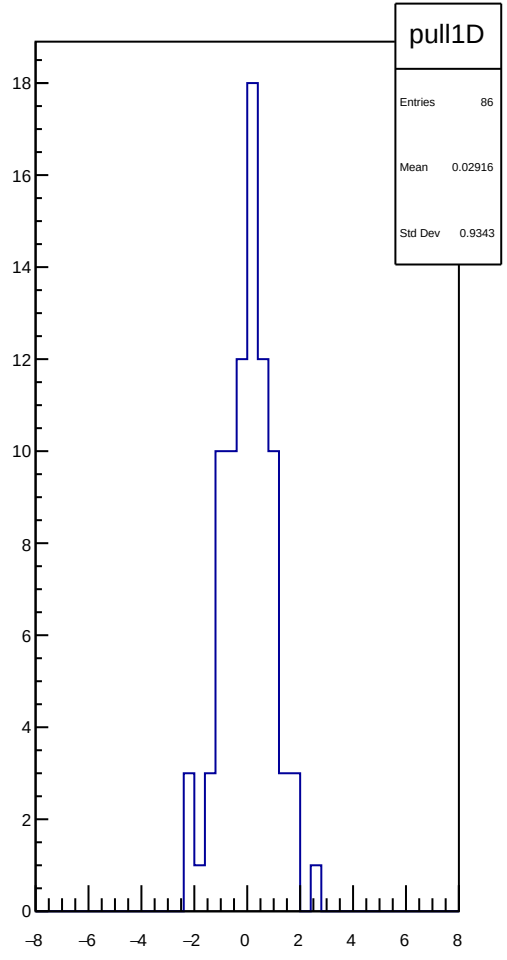

pull1D
Entries 86
Mean −0.004097
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

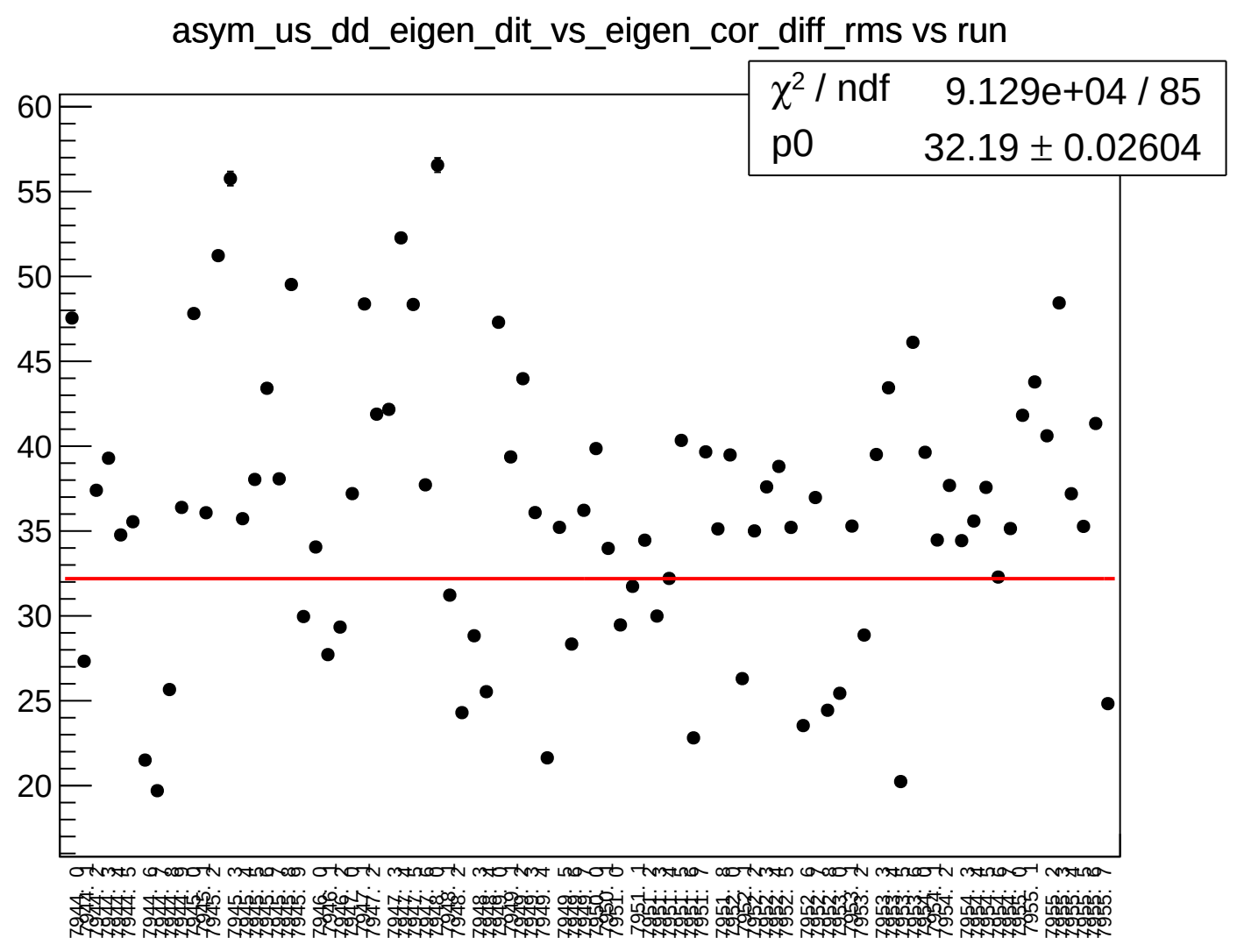

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2439 / 85
p0 0.006064 ± 4.769e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

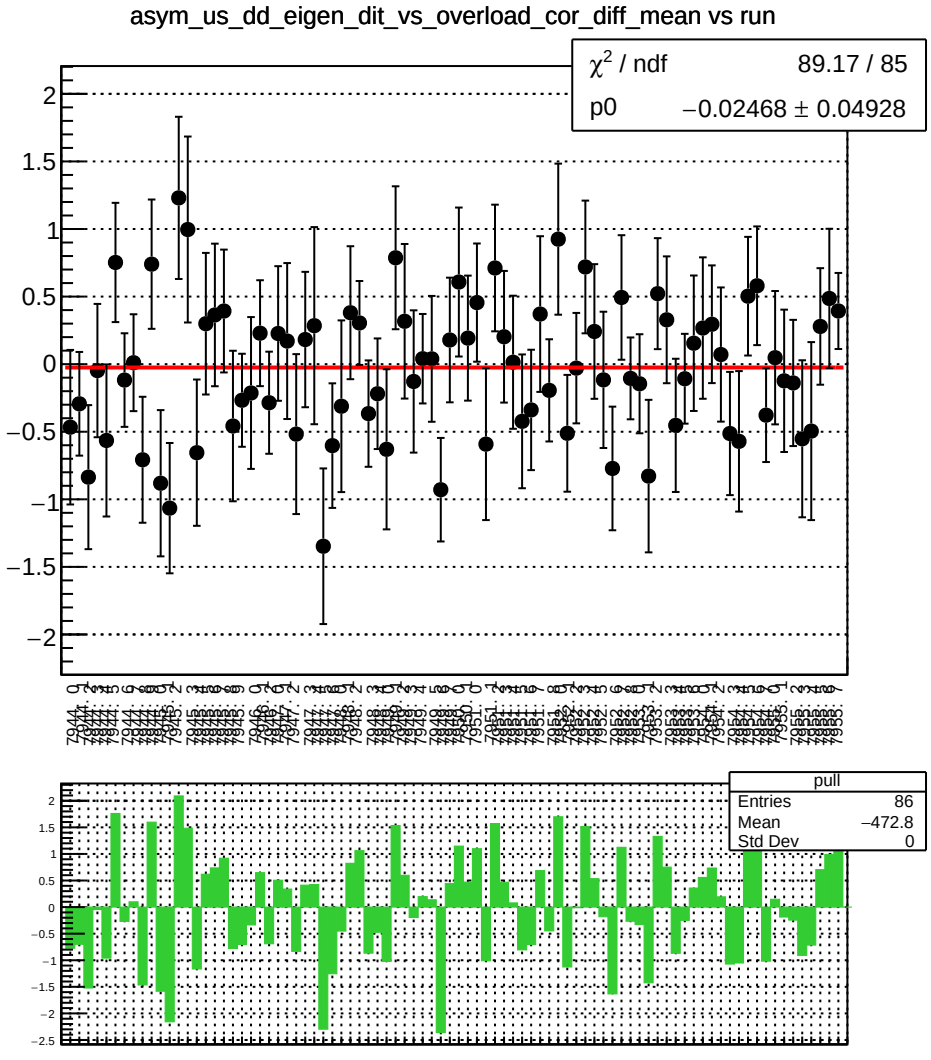

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.15 / 85
p0 −0.002924 ± 0.03683
pull
Entries 86
Mean 78.53
Std Dev 0
pull1D
Entries 86
Mean 0.02916
Std Dev 0.9343

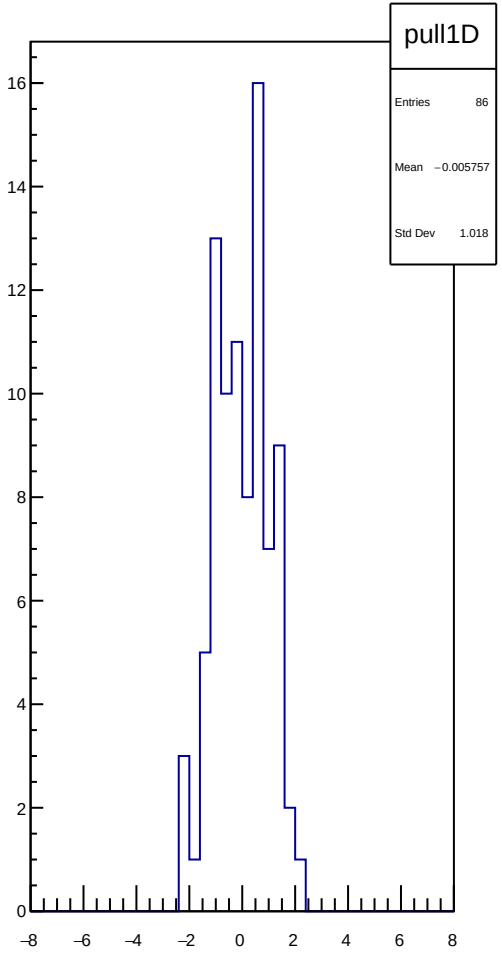

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.129e+04 / 85
p0 32.19 ± 0.02604
60
55
50
45
40
35
30
25
20

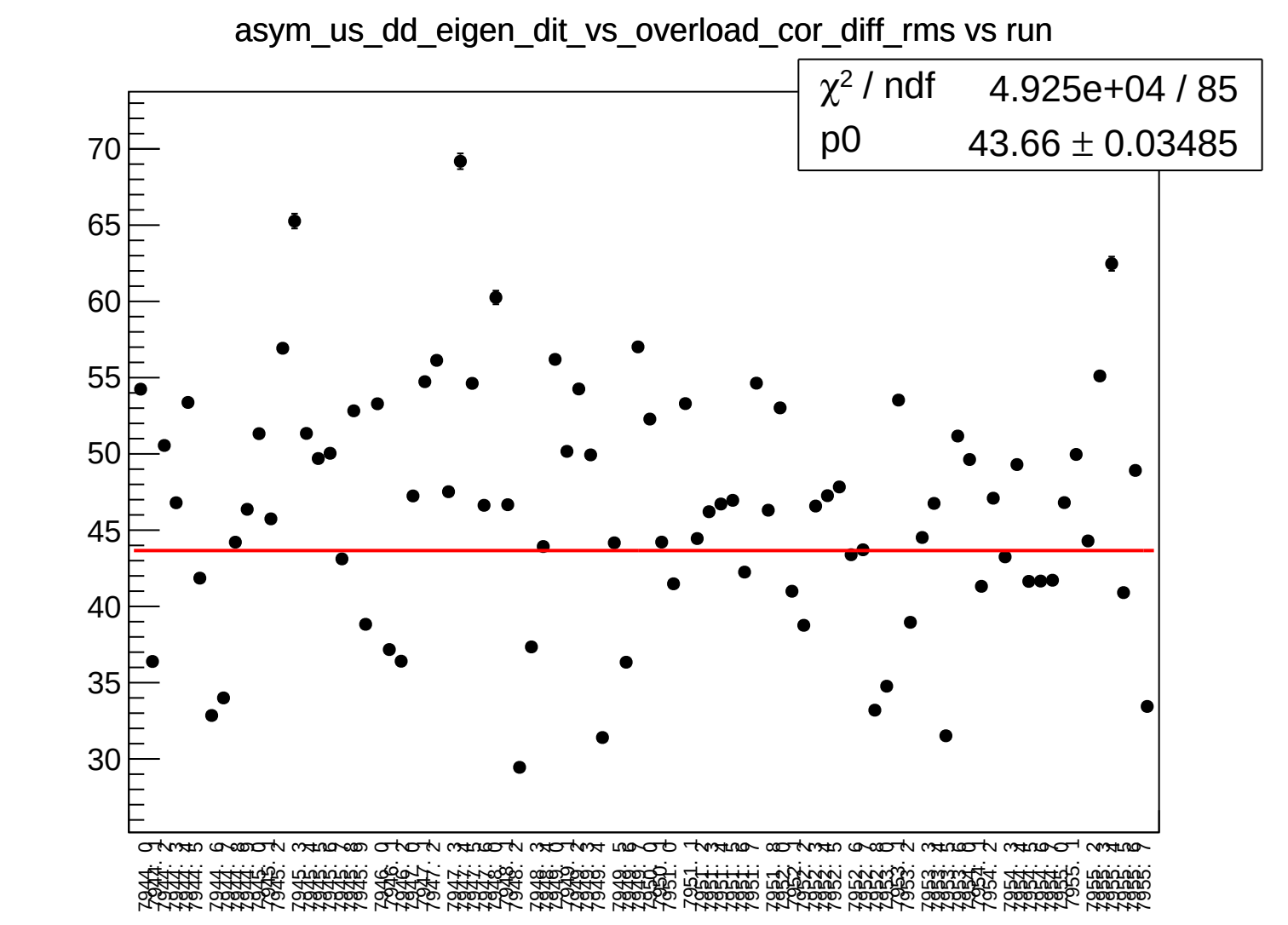

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.15 / 85
p0 −0.002924 ± 0.03683
pull
Entries 86
Mean 78.53
Std Dev 0

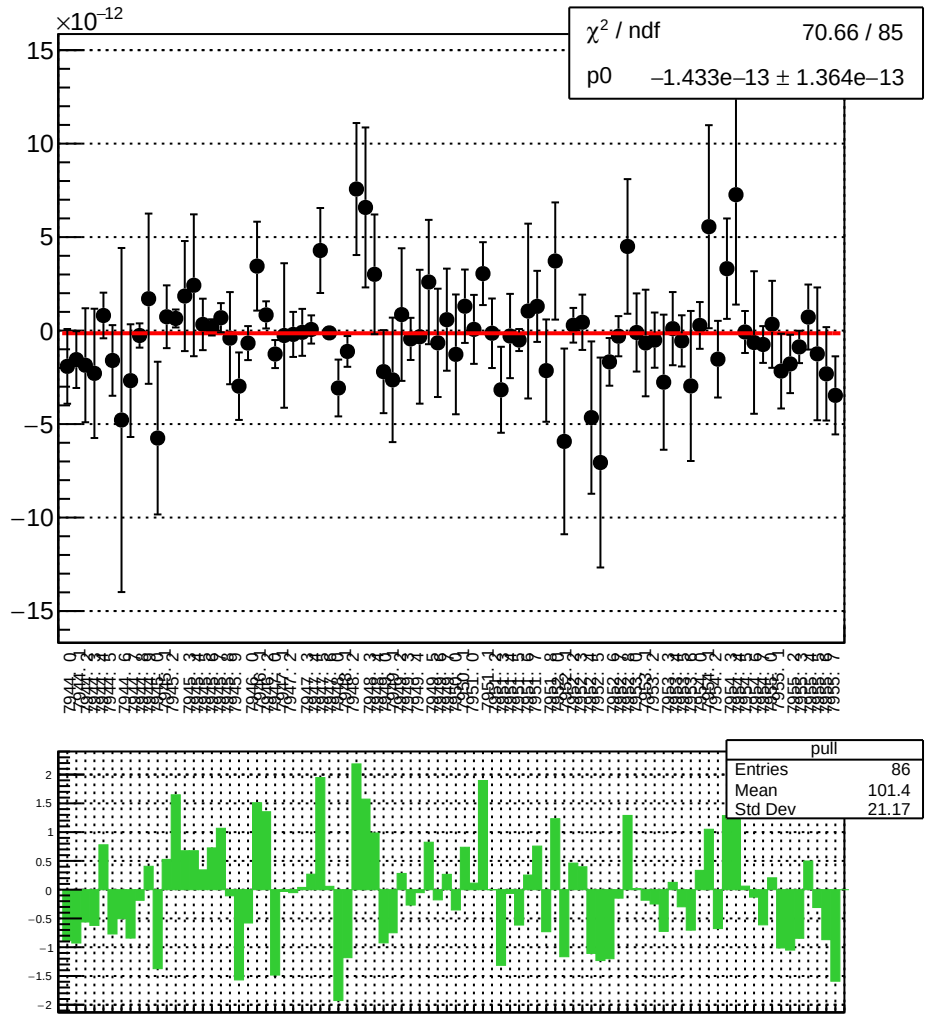

pull1D
Entries 86
Mean 0.02916
Std Dev 0.9343

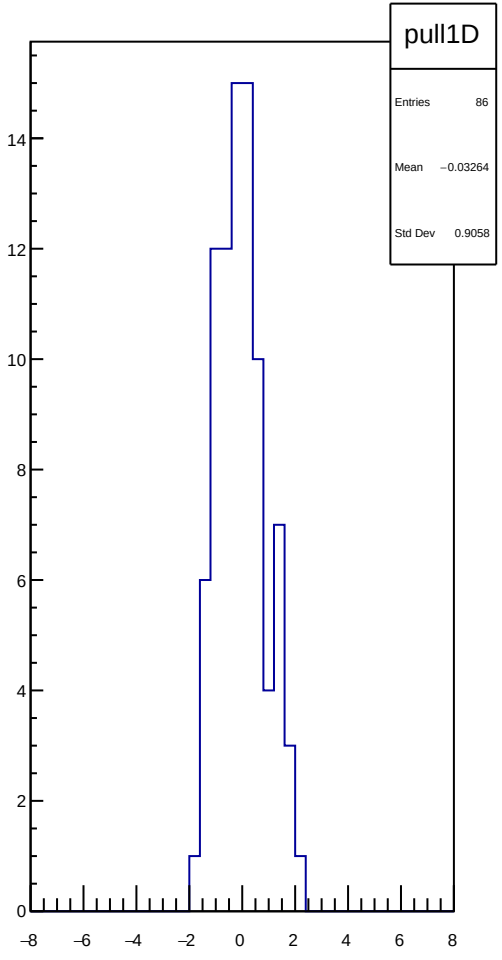

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.129e+04 / 85
p0 32.19 ± 0.02604
60
55
50
45
40
35
30
25
20

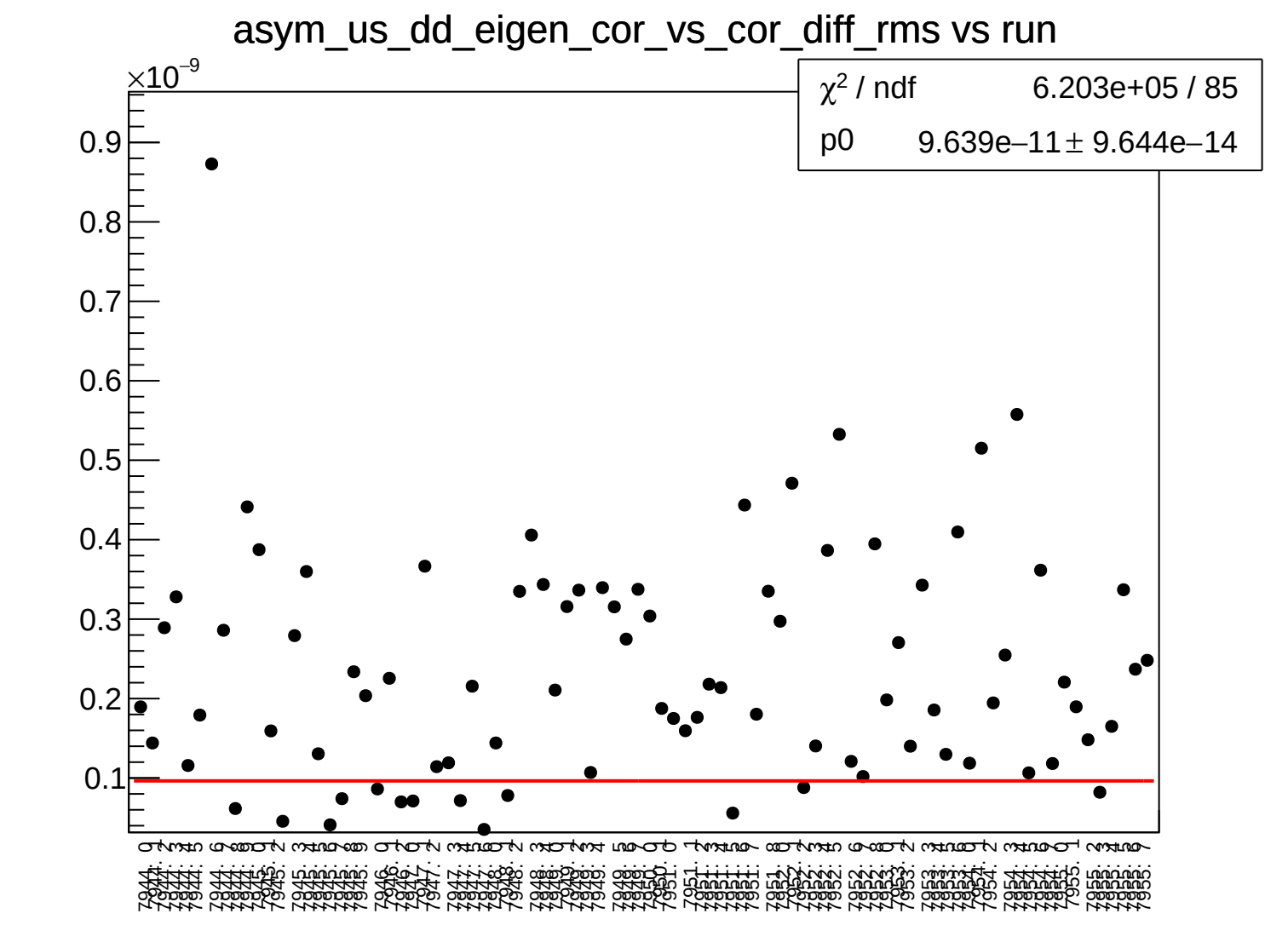

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 89.17 / 85
p0 −0.02468 ± 0.04928
pull
Entries 86
Mean −472.8
Std Dev 0

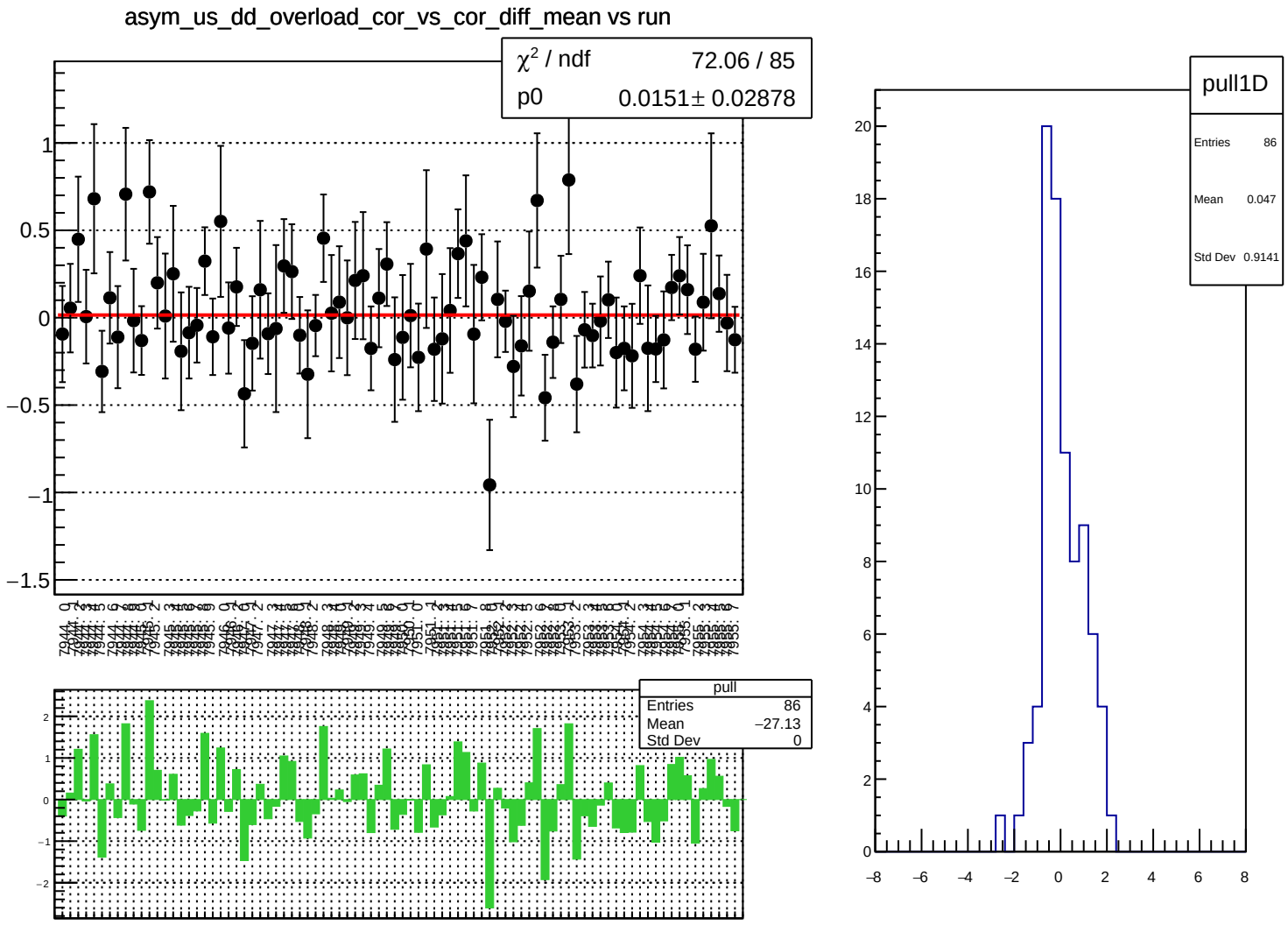

pull1D
Entries 86
Mean −0.005757
Std Dev 1.018

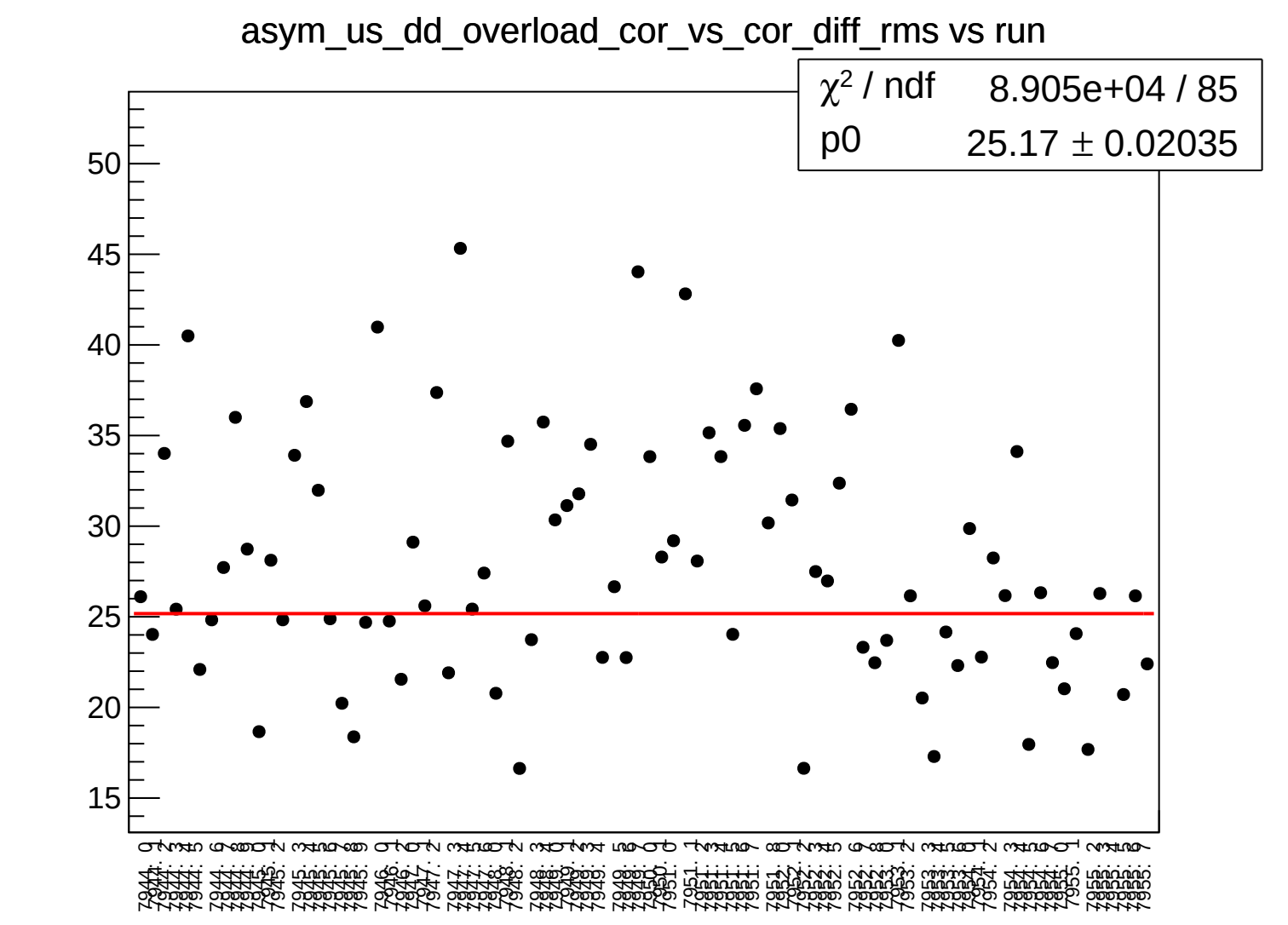

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.925e+04 / 85
p0 43.66 ± 0.03485
70
65
60
55
50
45
40
35
30

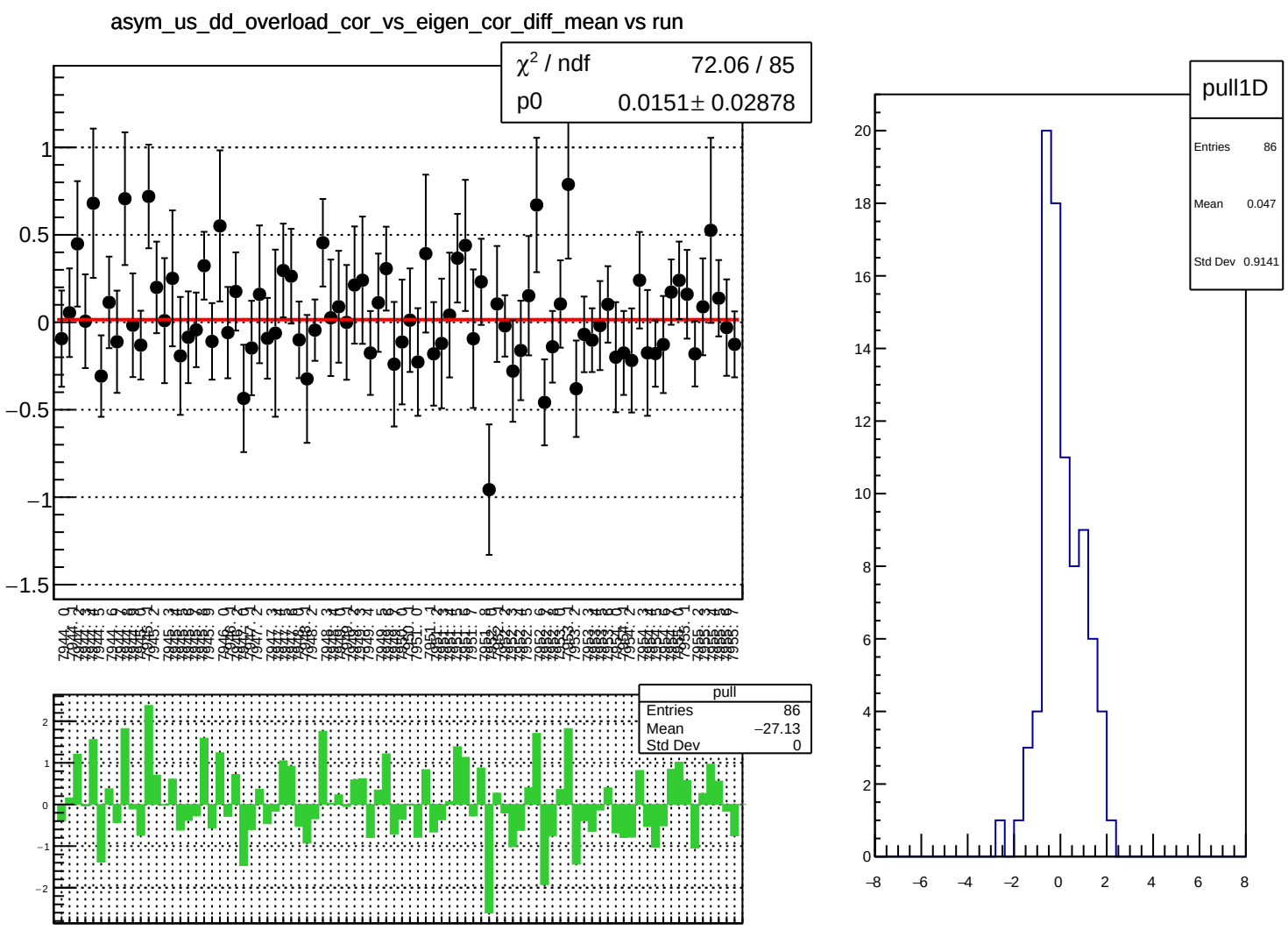

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.66 / 85
p0 −1.433e−13 ± 1.364e−13
pull
Entries 86
Mean 101.4
Std Dev 21.17

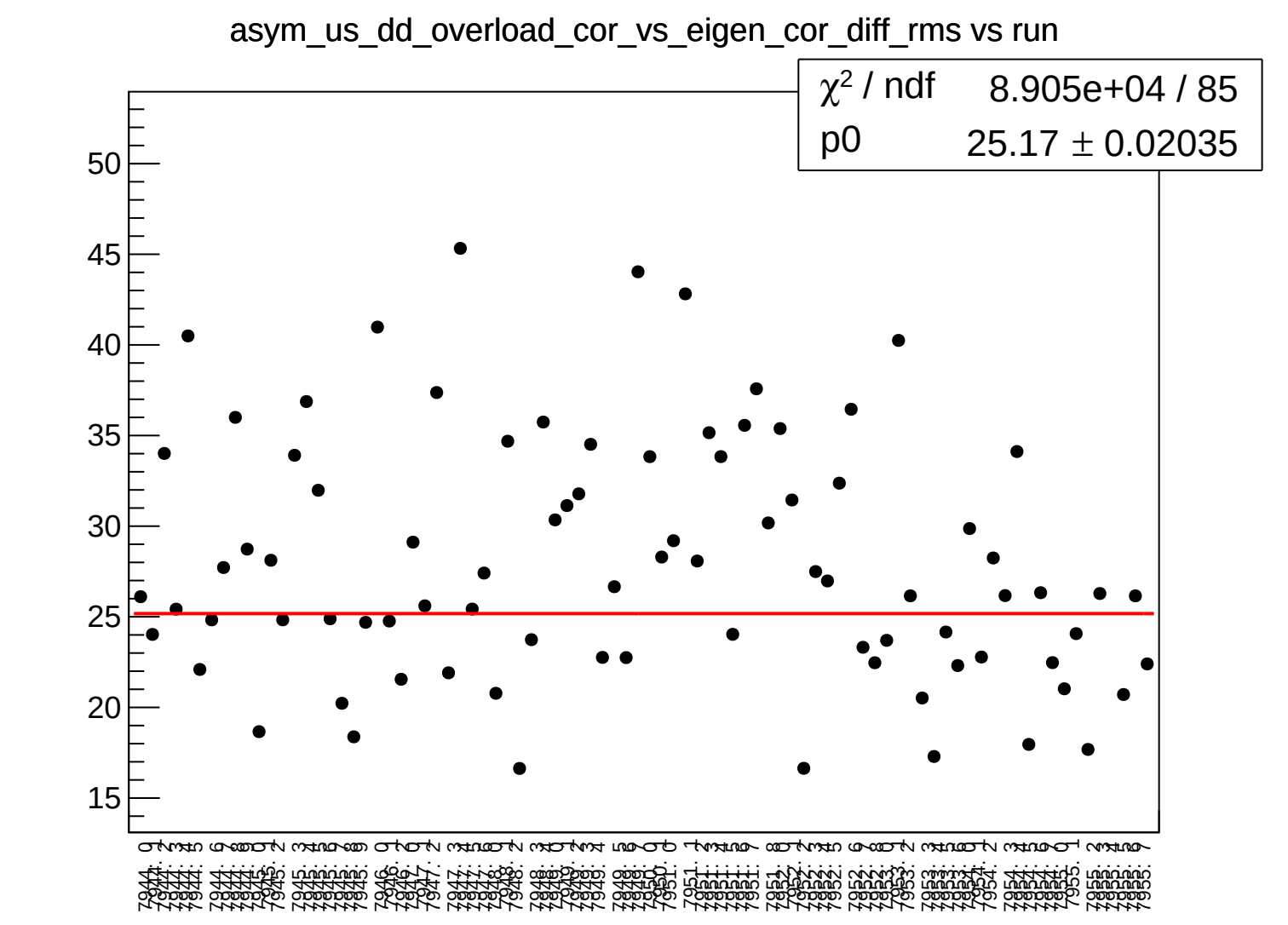

pull1D
Entries 86
Mean −0.03264
Std Dev 0.9058

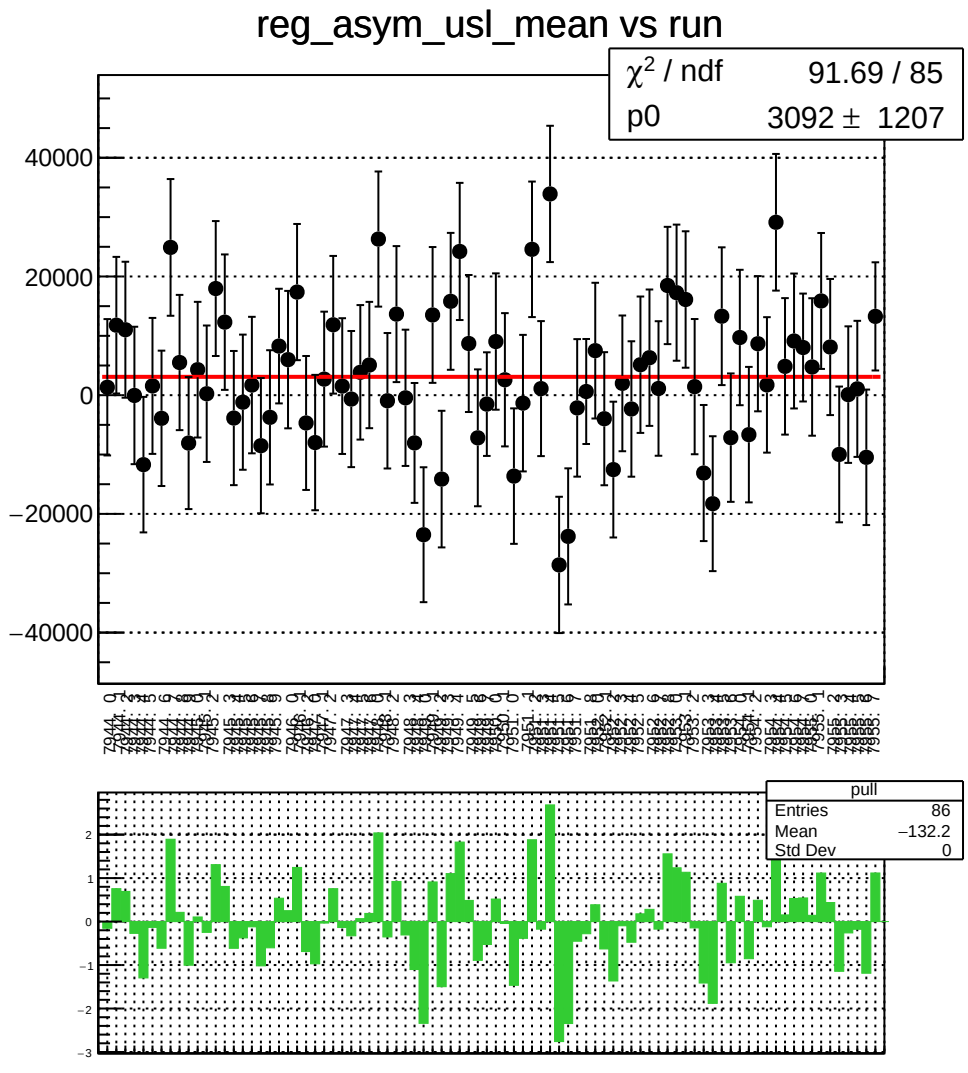

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.203e+05 / 85
p0 9.639e−11 ± 9.644e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

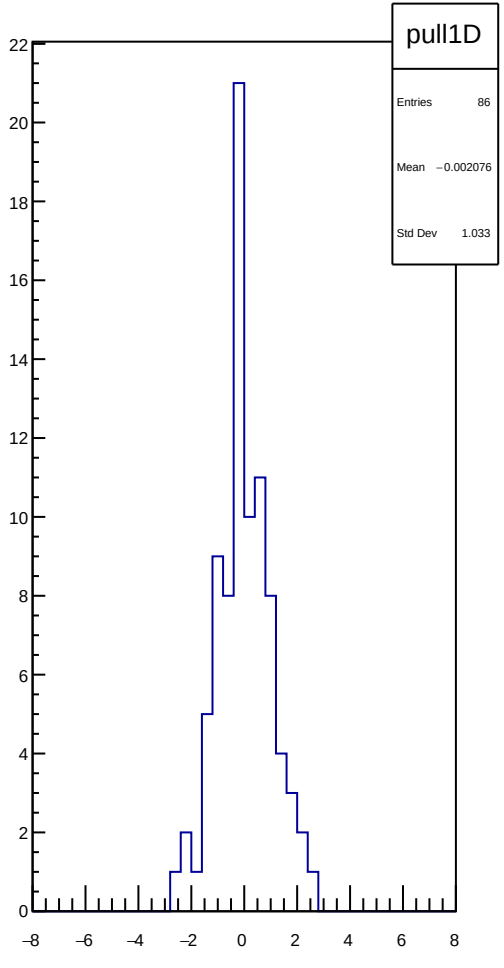

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 72.06 / 85
p0 0.0151± 0.02878
pull
Entries 86
Mean −27.13
Std Dev 0
pull1D
Entries 86
Mean 0.047
Std Dev 0.9141

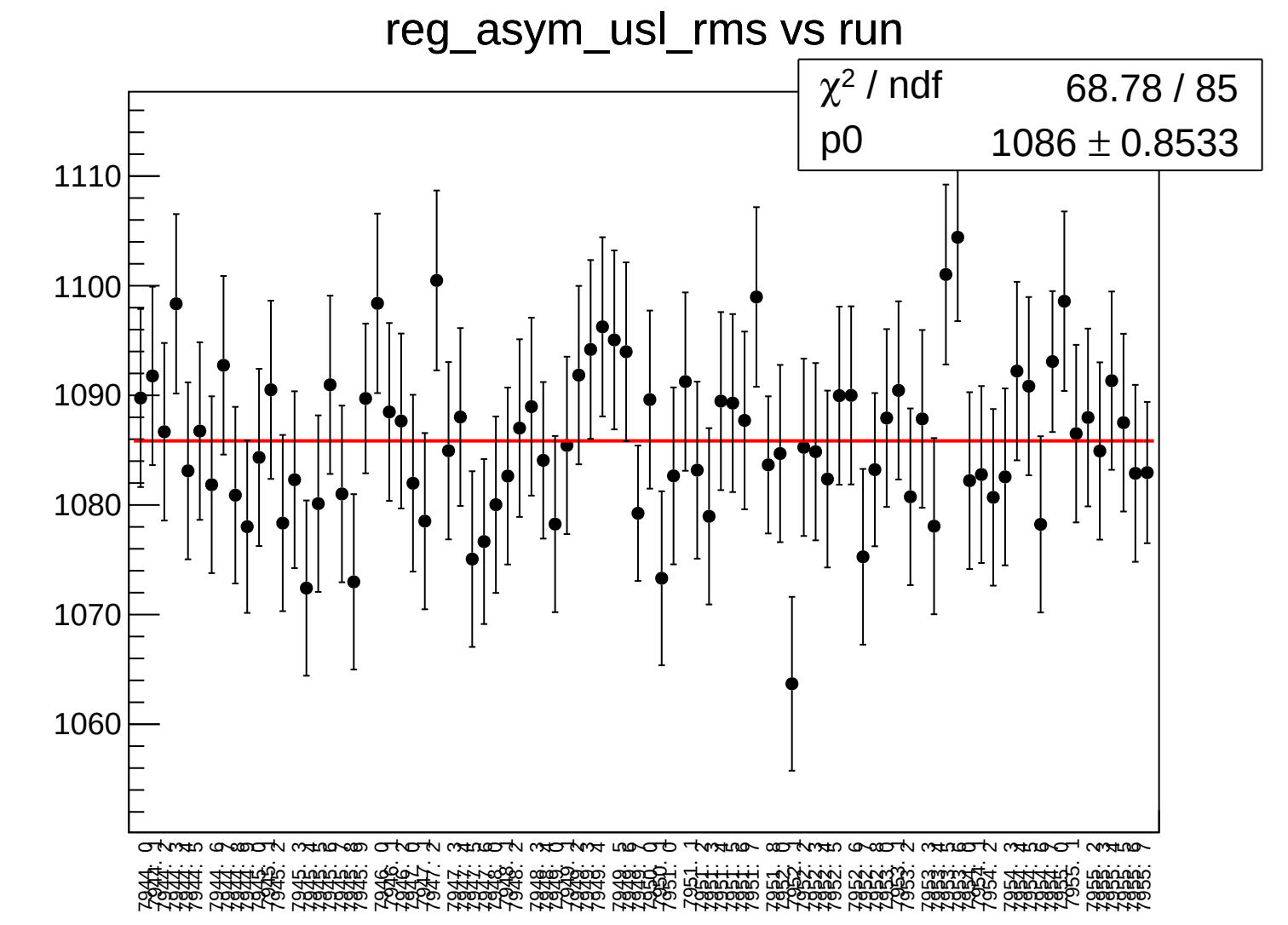

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 8.905e+04 / 85
p0 25.17 ± 0.02035
50
45
40
35
30
25
20
15

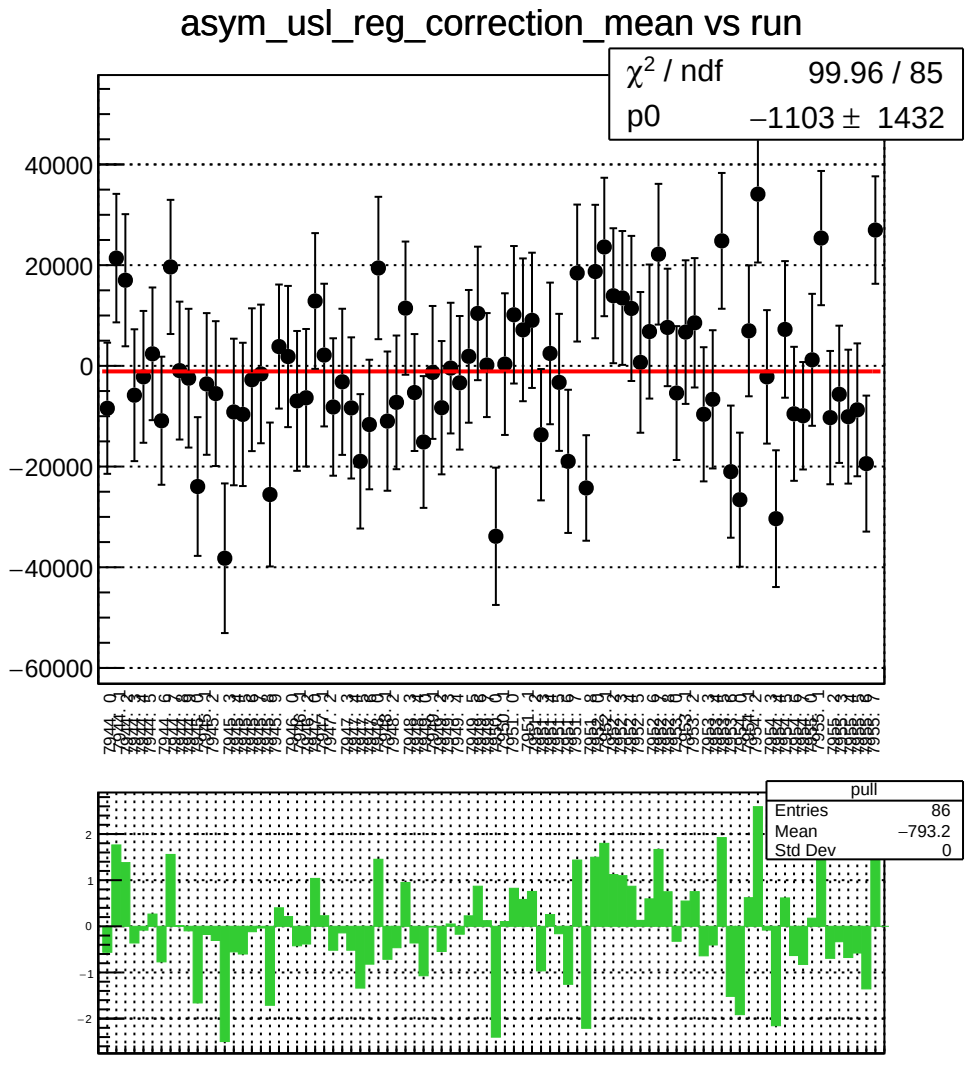

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.06 / 85
p0 0.0151± 0.02878
pull
Entries 86
Mean −27.13
Std Dev 0
pull1D
Entries 86
Mean 0.047
Std Dev 0.9141

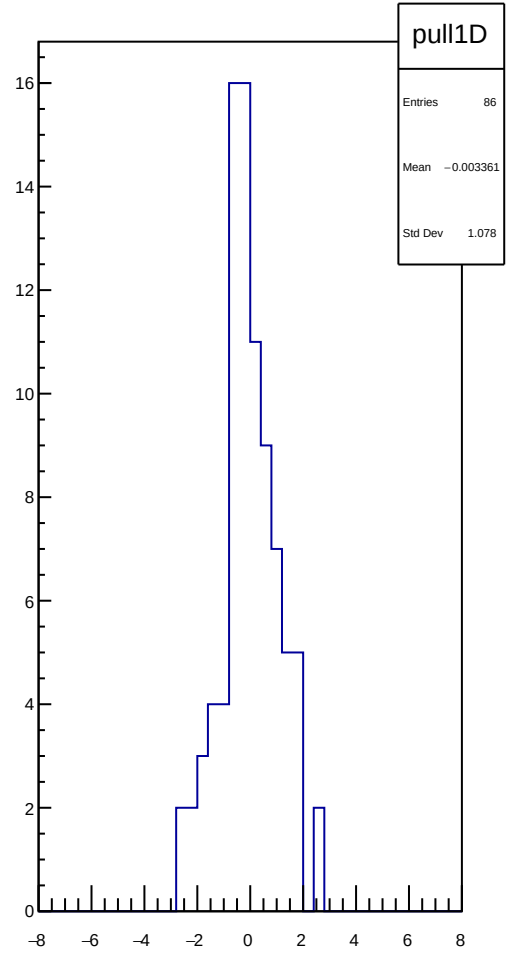

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.905e+04 / 85
p0 25.17 ± 0.02035
50
45
40
35
30
25
20
15

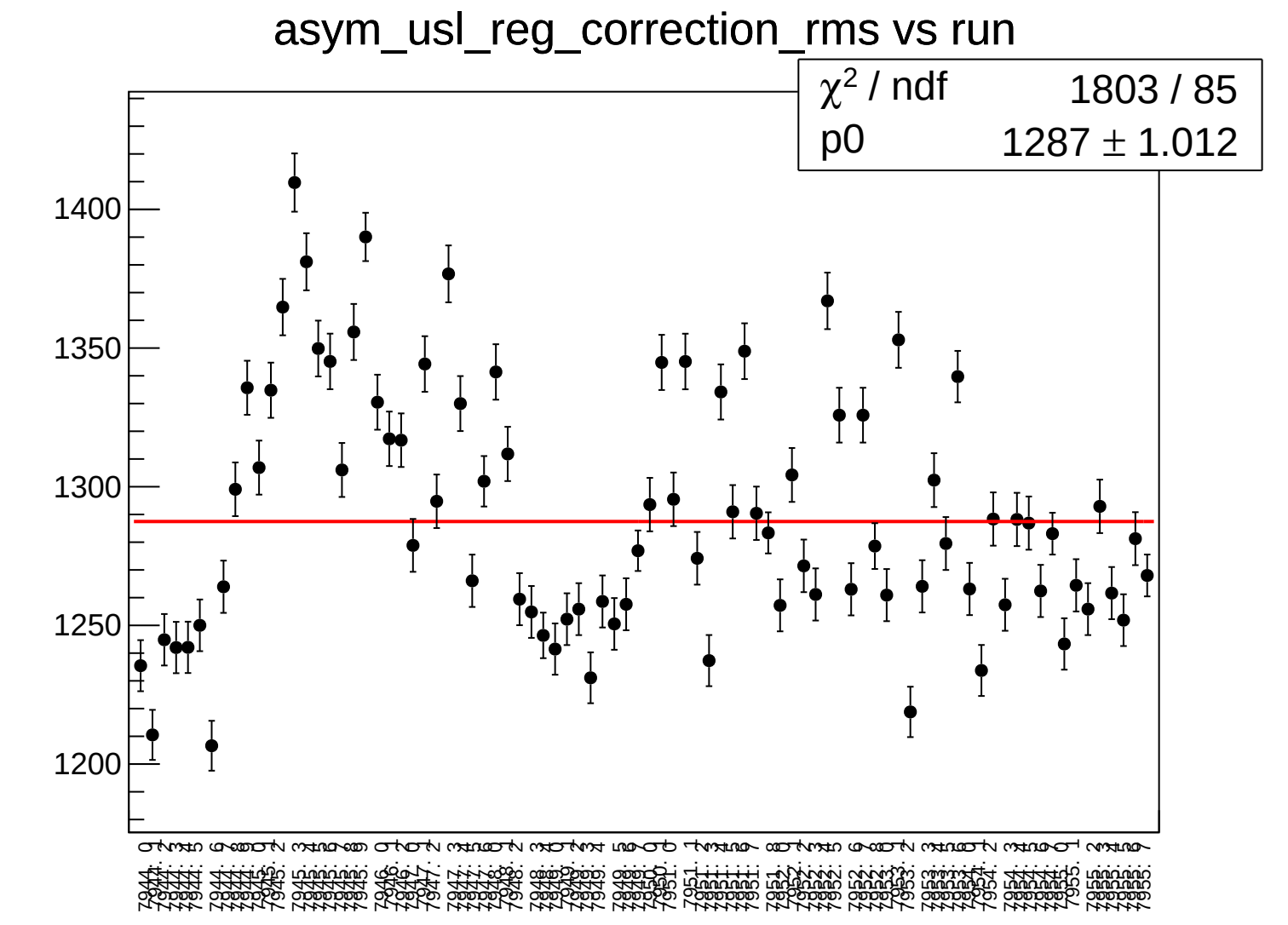

reg_asym_usl_mean vs run
χ² / ndf 91.69 / 85
p0 3092 ± 1207
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −132.2
Std Dev 0
2
1
0
−1
−2
−3

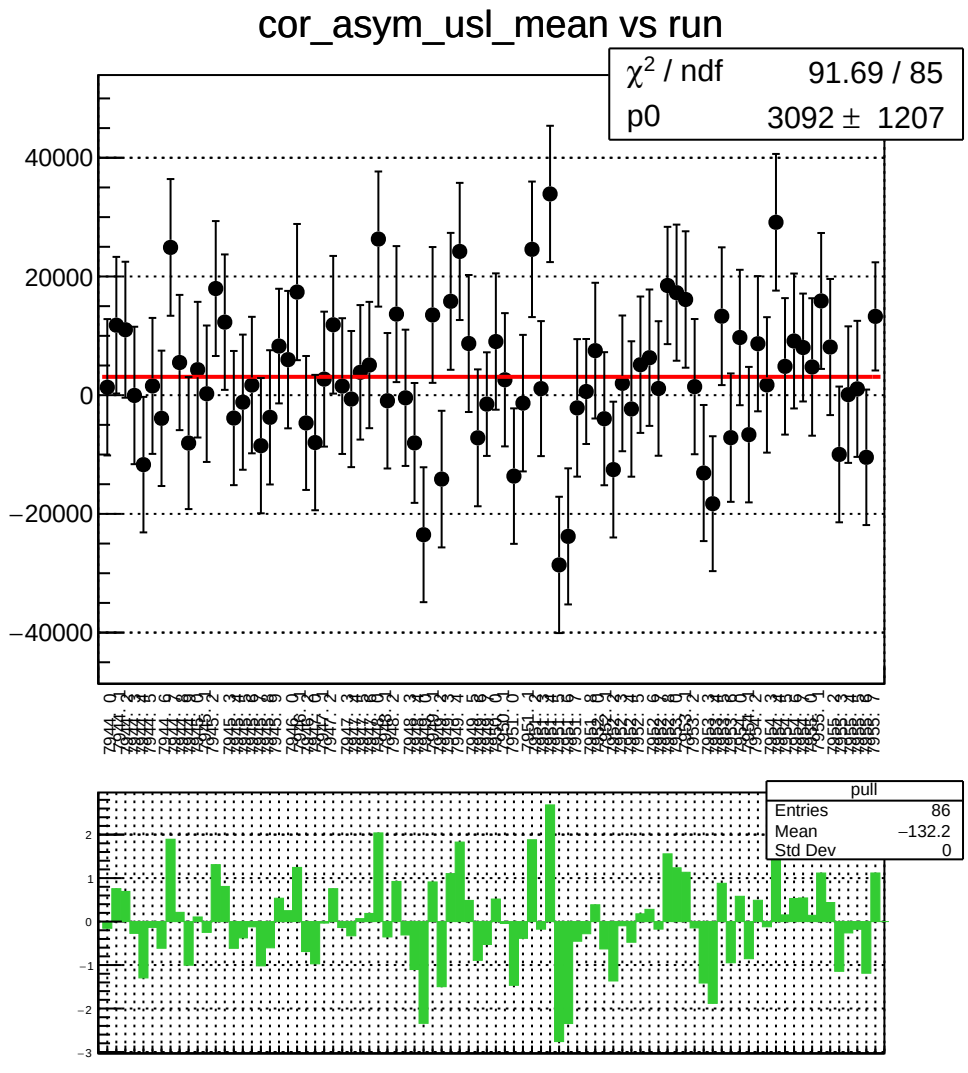

pull1D
Entries 86
Mean −0.002076
Std Dev 1.033
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

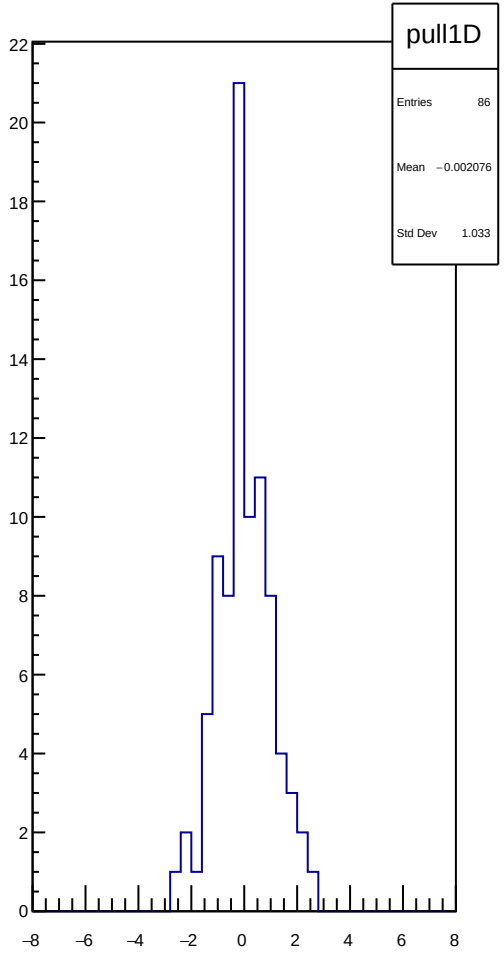

reg_asym_usl_rms vs run
χ² / ndf 68.78 / 85
p0 1086 ± 0.8533
1110
1100
1090
1080
1070
1060

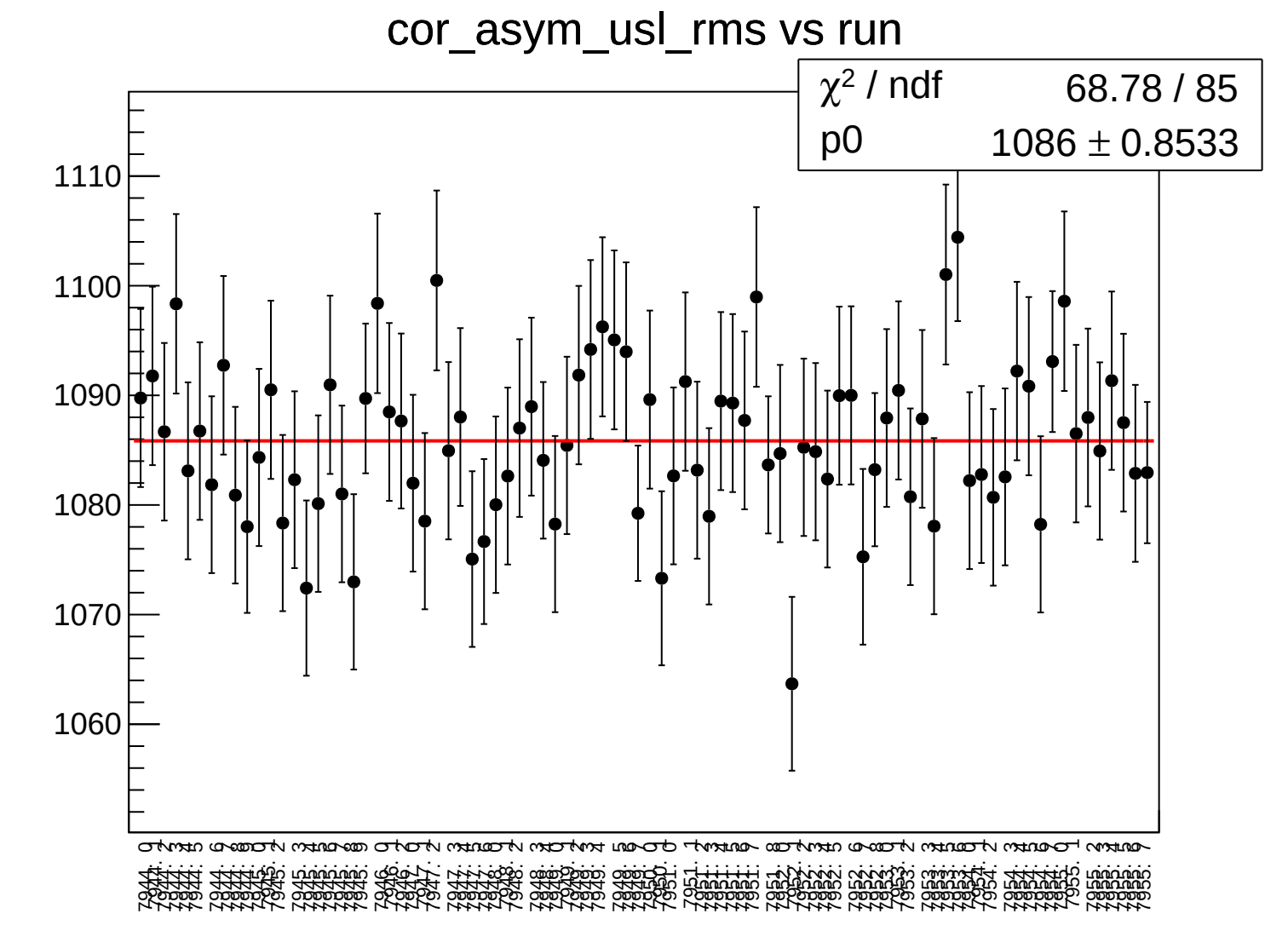

asym_usl_reg_correction_mean vs run
χ² / ndf 99.96 / 85
p0 −1103 ± 1432
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −793.2
Std Dev 0
2
1
0
−1
−2

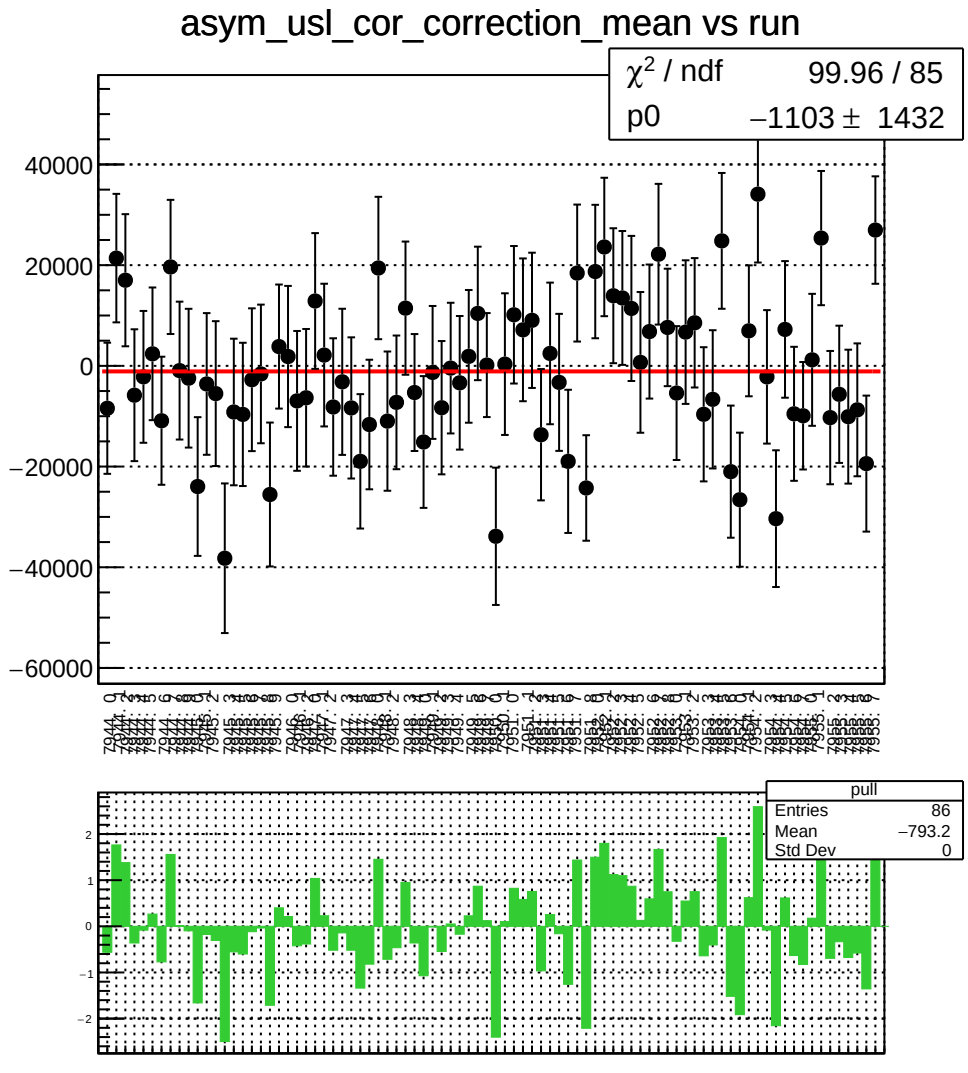

pull1D
Entries 86
Mean −0.003361
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

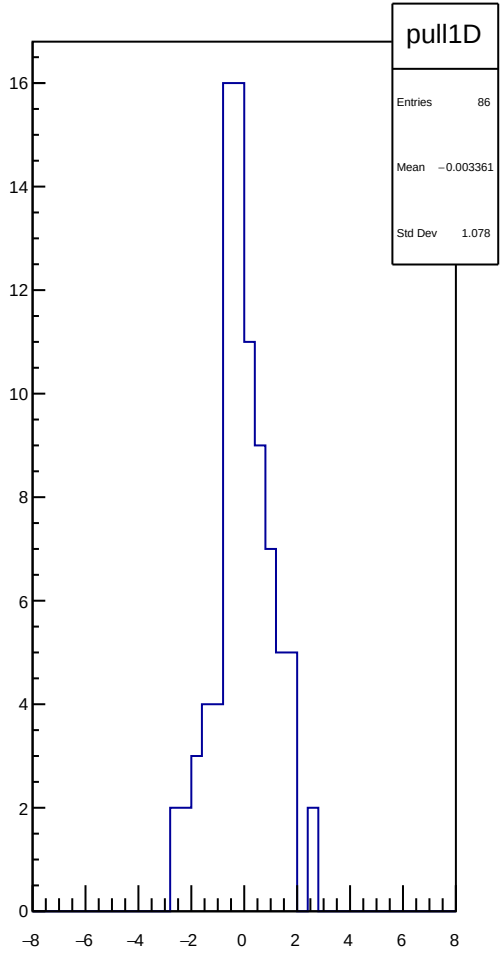

asym_usl_reg_correction_rms vs run
χ² / ndf 1803 / 85
p0 1287 ± 1.012
1400
1350
1300
1250
1200

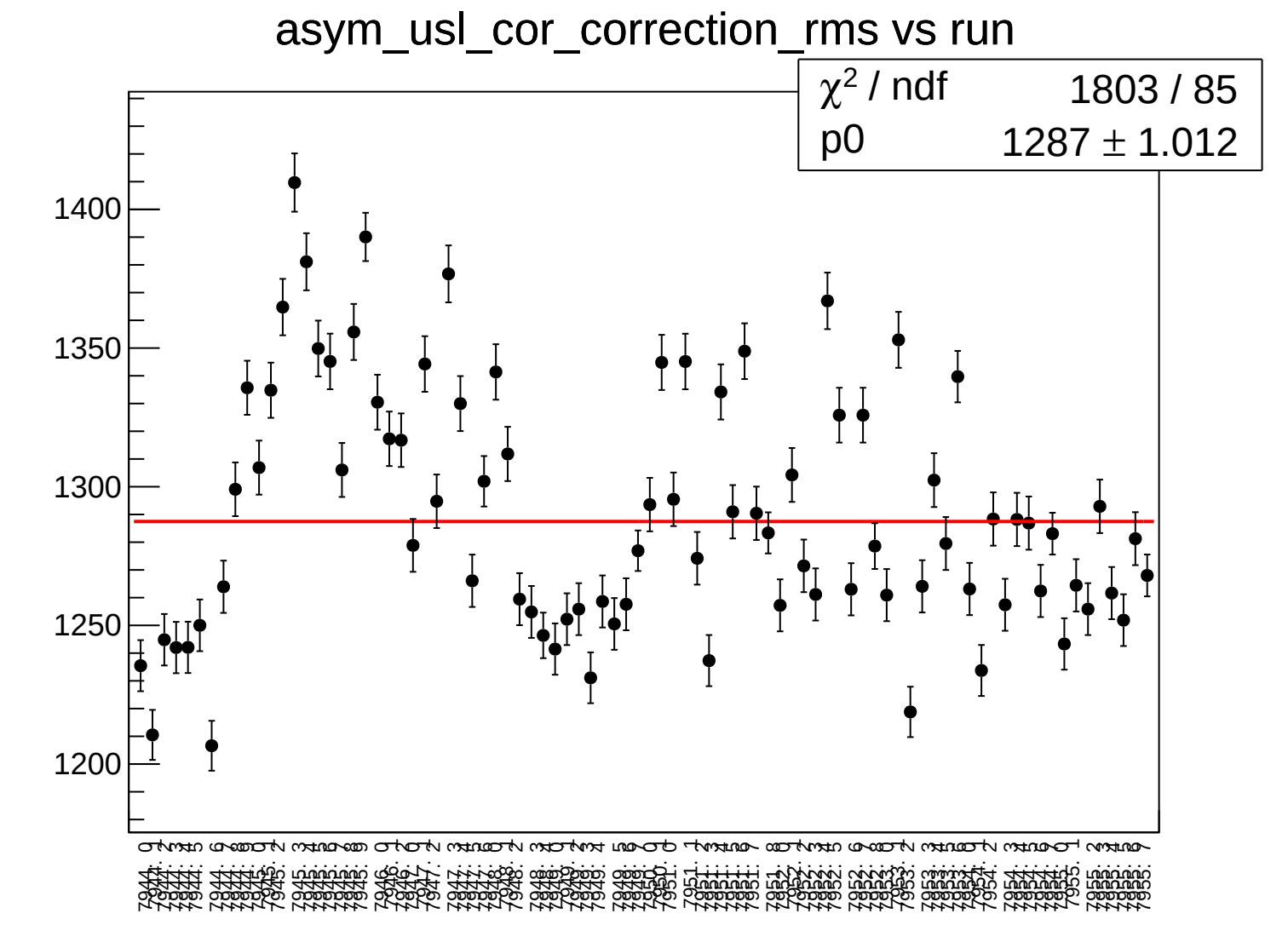

cor_asym_usl_mean vs run
χ^2 / ndf 91.69 / 85
p0 3092 ± 1207
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −132.2
Std Dev 0
2
1
0
−1
−2
−3

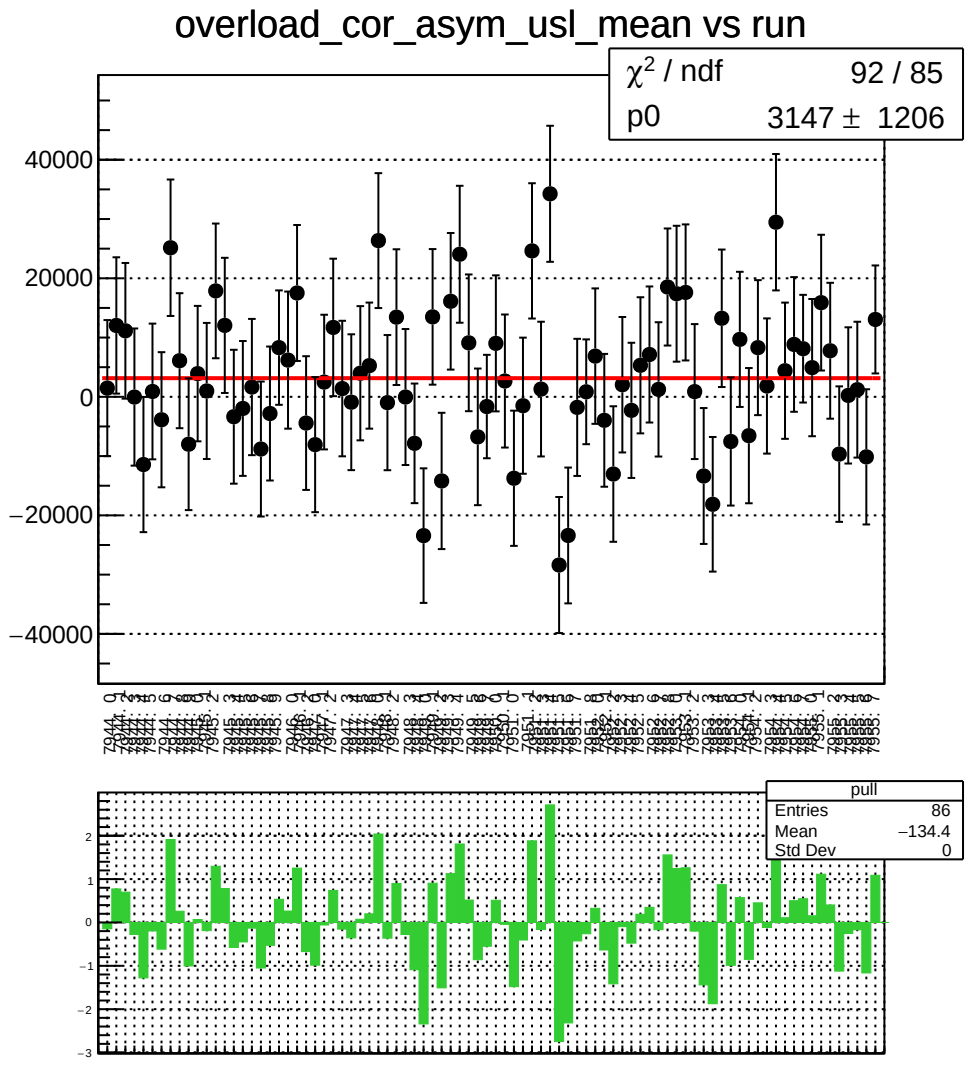

pull1D
Entries 86
Mean −0.002076
Std Dev 1.033
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

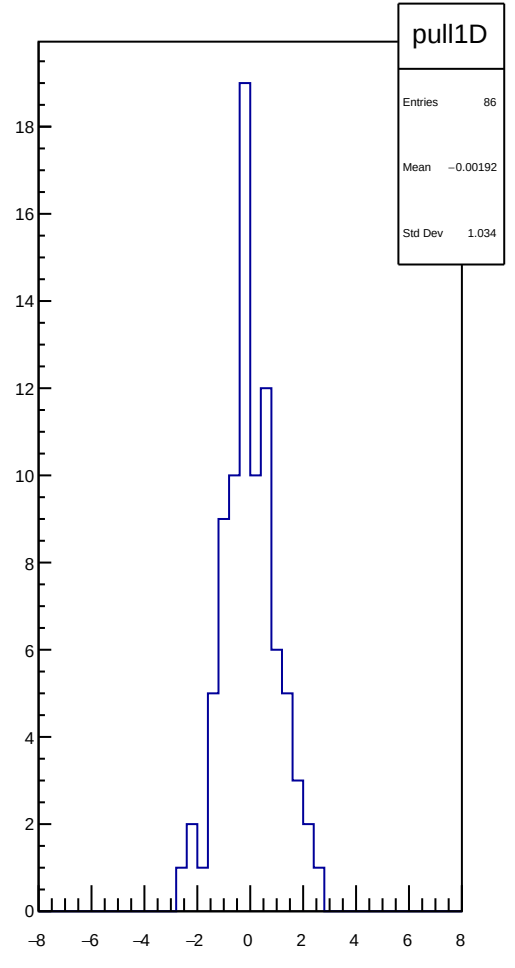

cor_asym_usl_rms vs run
χ^2 / ndf 68.78 / 85
p0 1086 ± 0.8533
1110
1100
1090
1080
1070
1060

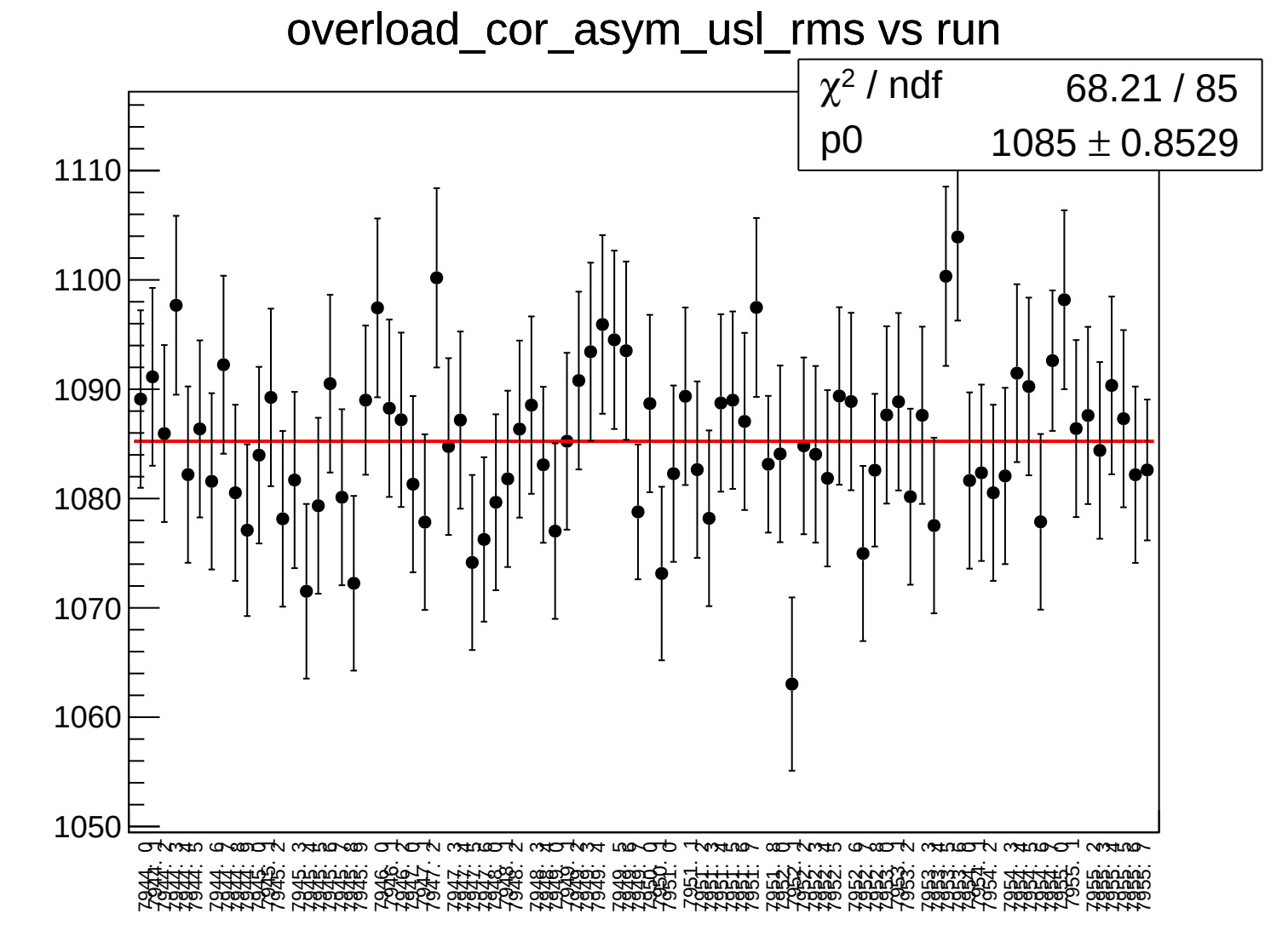

asym_usl_cor_correction_mean vs run
χ² / ndf 99.96 / 85
p0 −1103 ± 1432
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −793.2
Std Dev 0
2
1
0
−1
−2

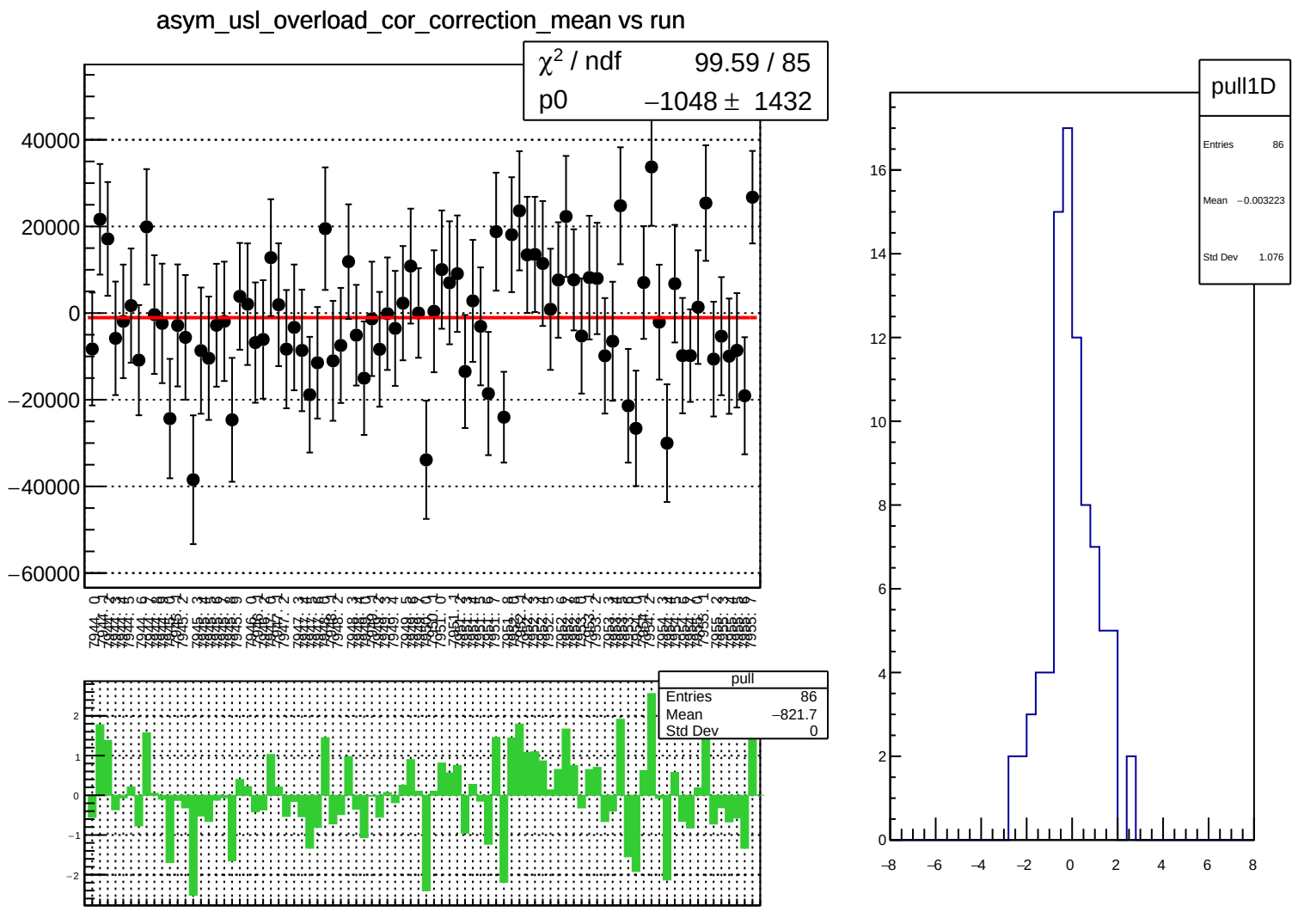

pull1D
Entries 86
Mean −0.003361
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

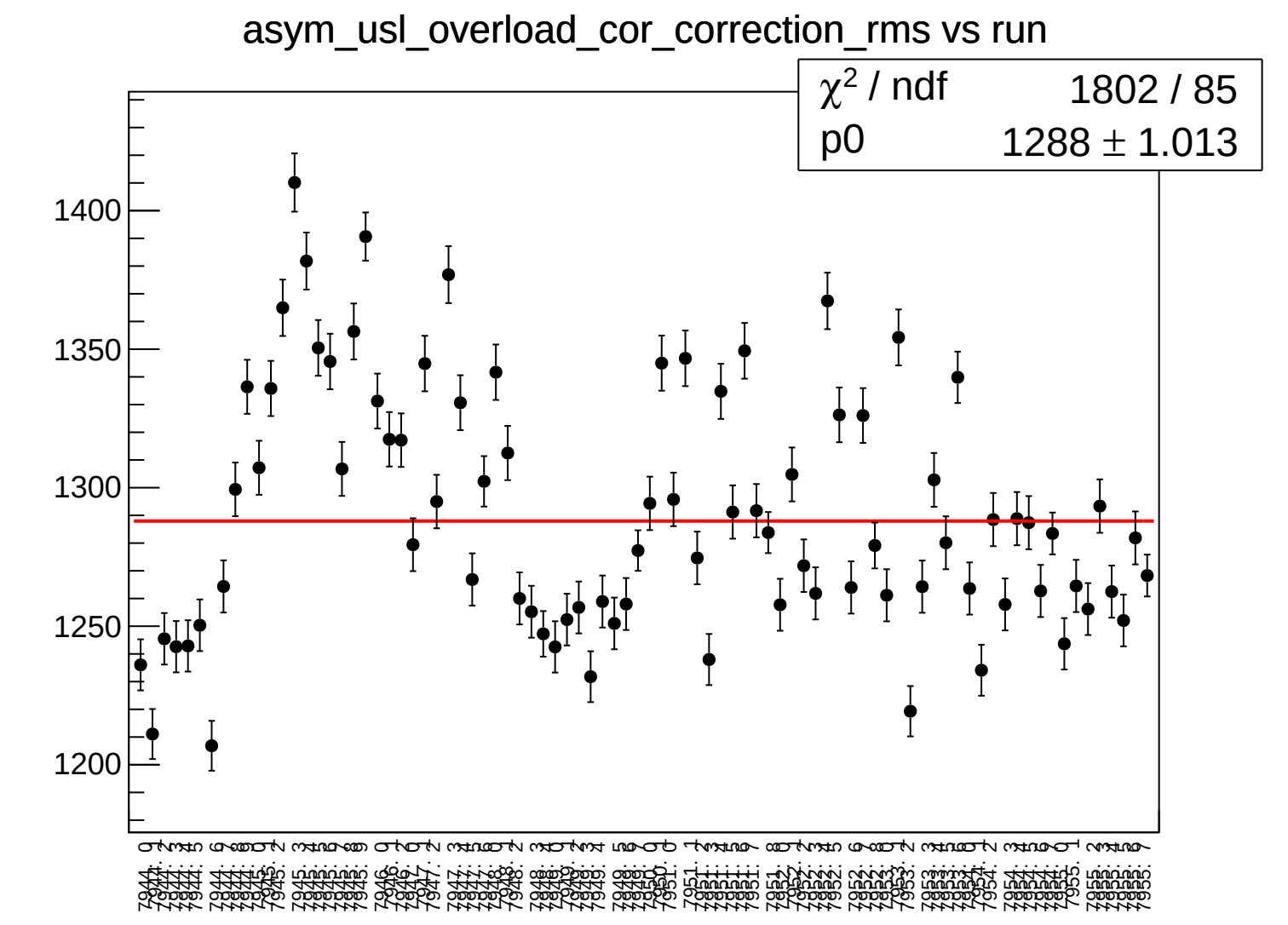

asym_usl_cor_correction_rms vs run
χ² / ndf 1803 / 85
p0 1287 ± 1.012
1400
1350
1300
1250
1200

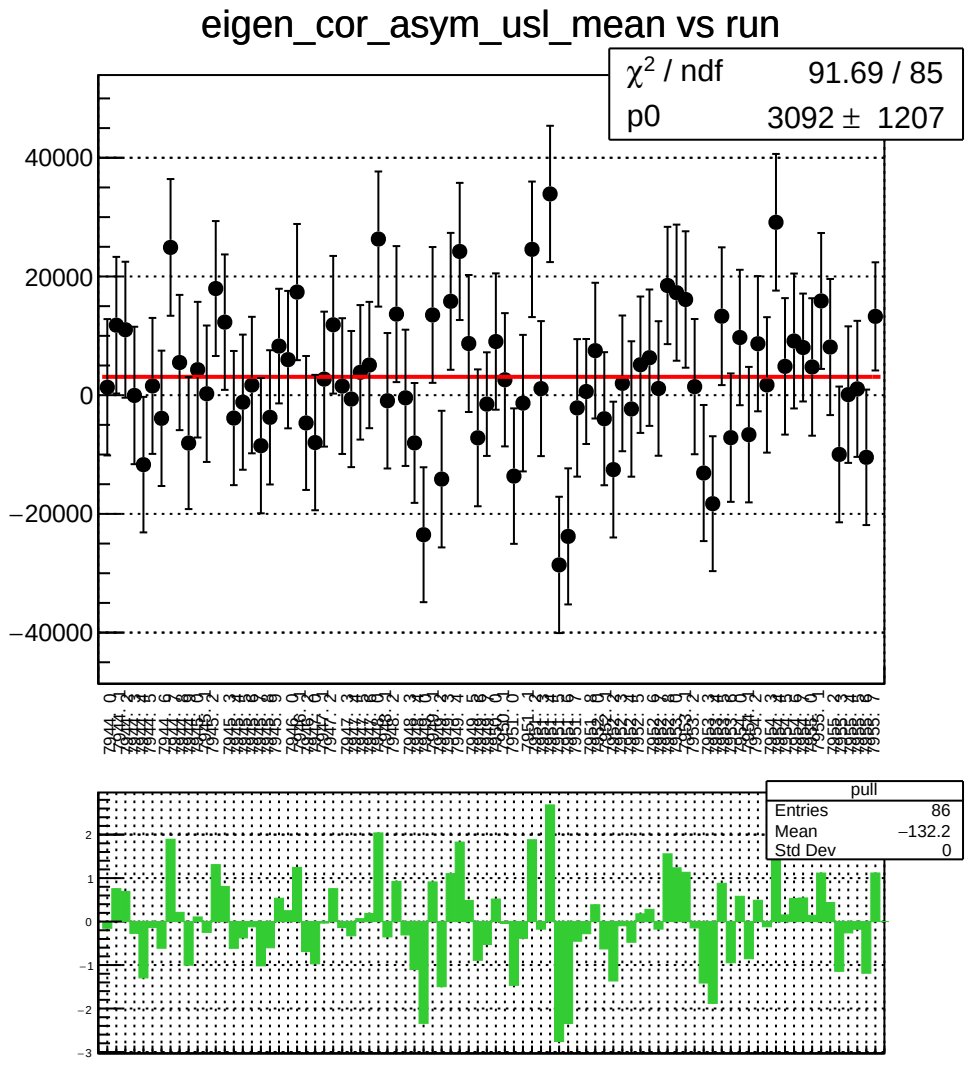

overload_cor_asym_usl_mean vs run
χ² / ndf 92 / 85
p0 3147 ± 1206
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −134.4
Std Dev 0
2
1
0
−1
−2
−3

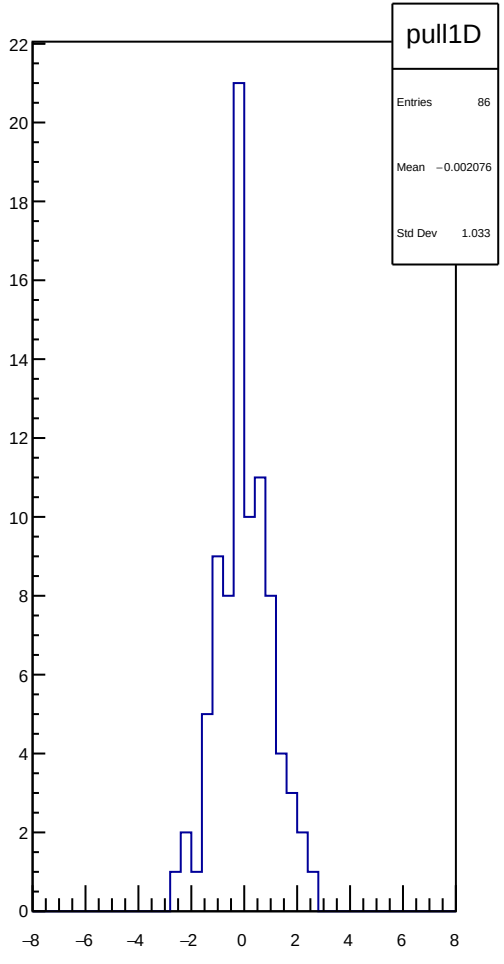

pull1D
Entries 86
Mean −0.00192
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

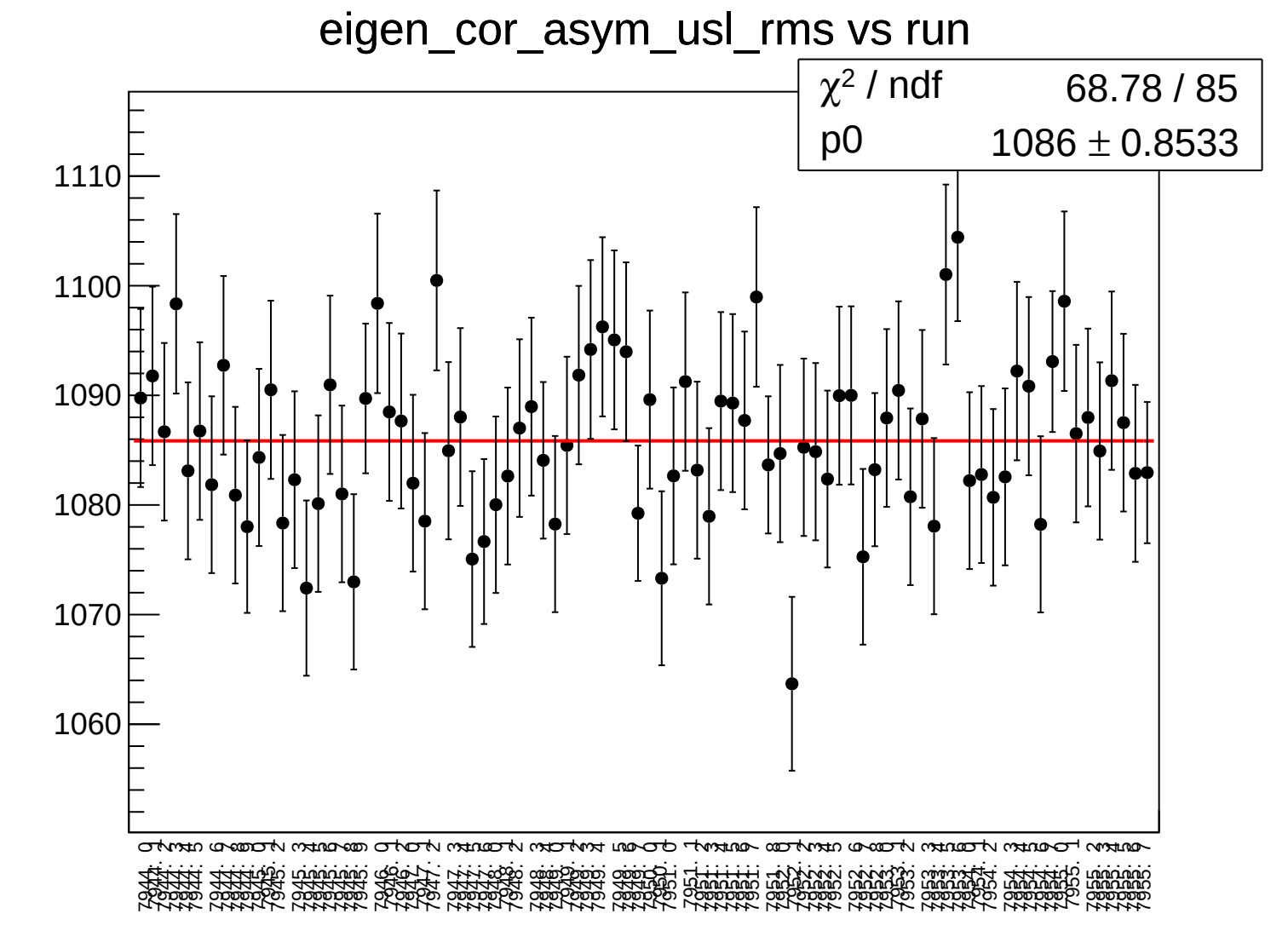

overload_cor_asym_usl_rms vs run
χ^2 / ndf 68.21 / 85
p0 1085 ± 0.8529
1110
1100
1090
1080
1070
1060
1050

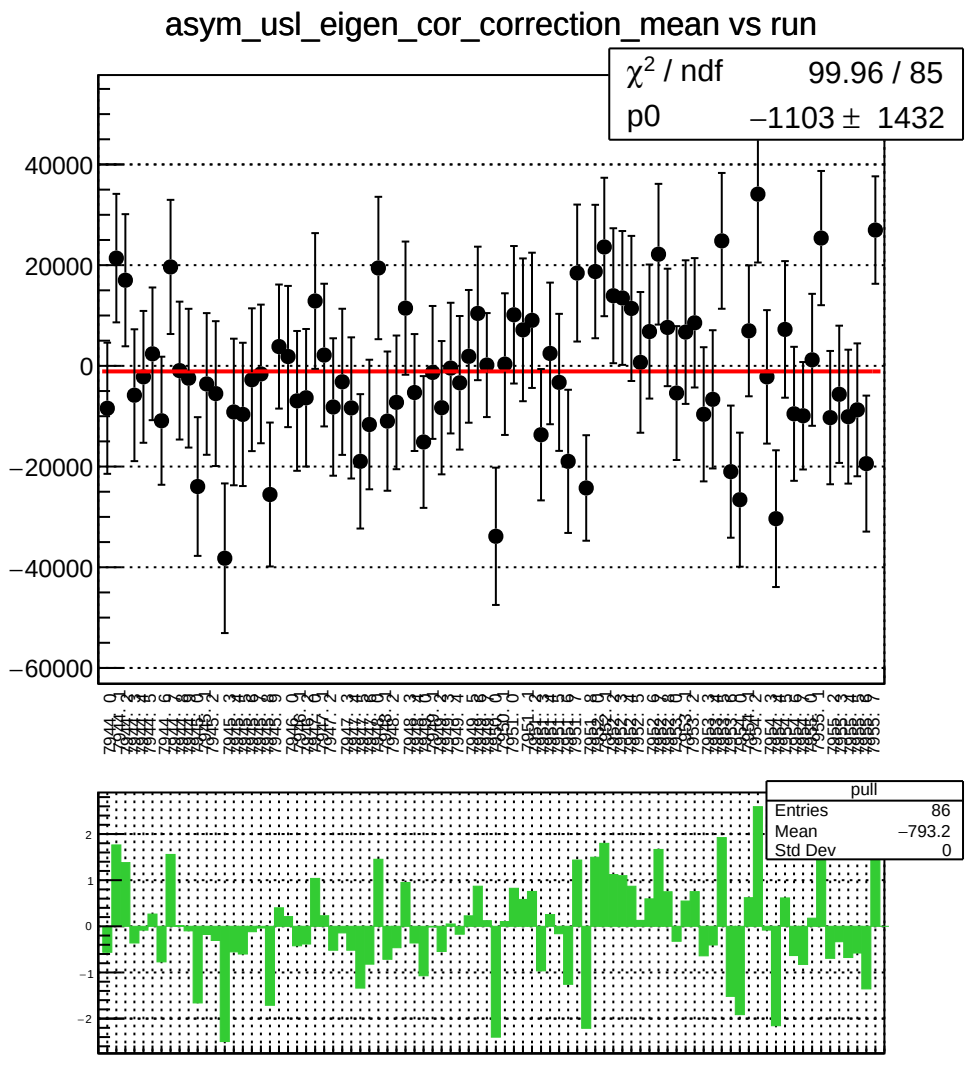

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 99.59 / 85
p0 −1048 ± 1432
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −821.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.003223
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

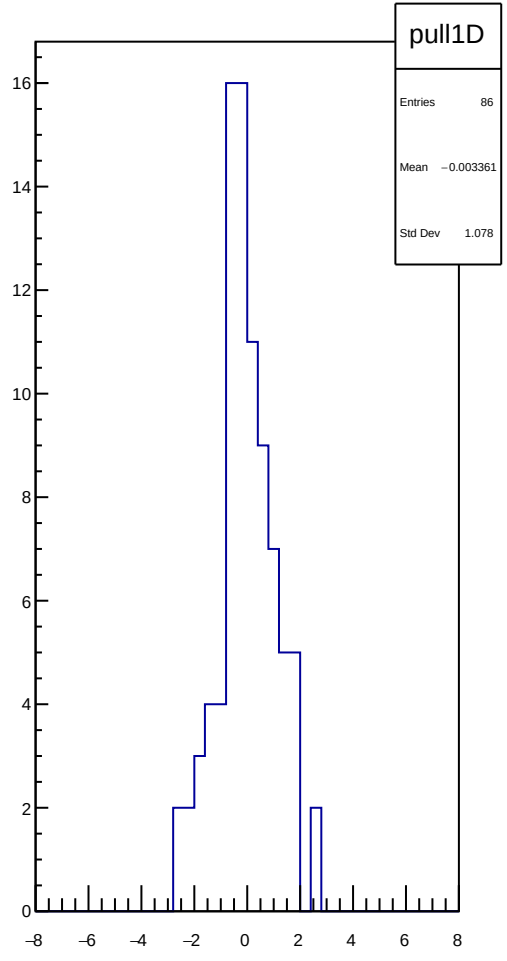

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1802 / 85
p0 1288 ± 1.013
1400
1350
1300
1250
1200

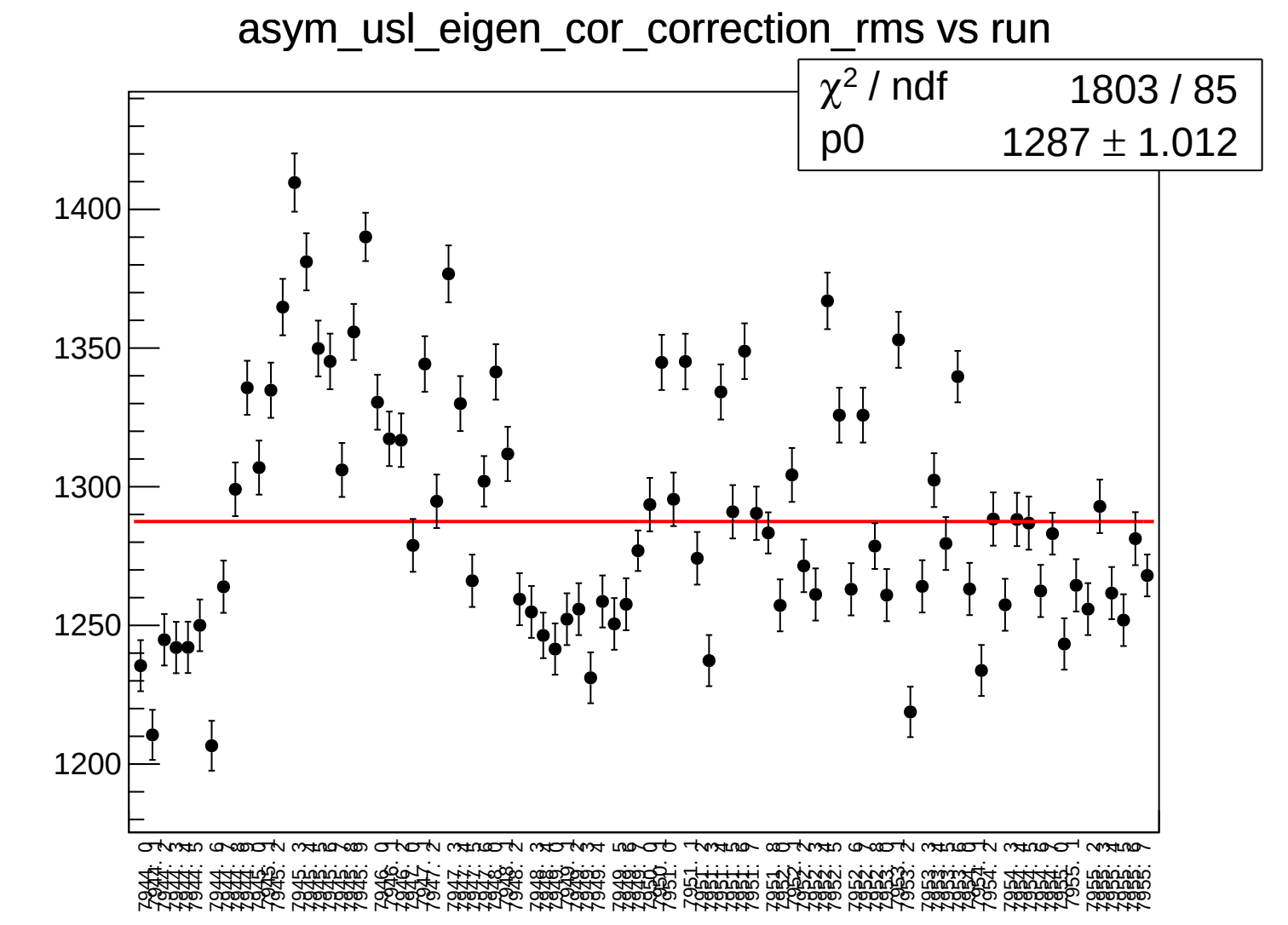

eigen_cor_asym_usl_mean vs run
χ² / ndf 91.69 / 85
p0 3092 ± 1207
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −132.2
Std Dev 0
2
1
0
−1
−2
−3

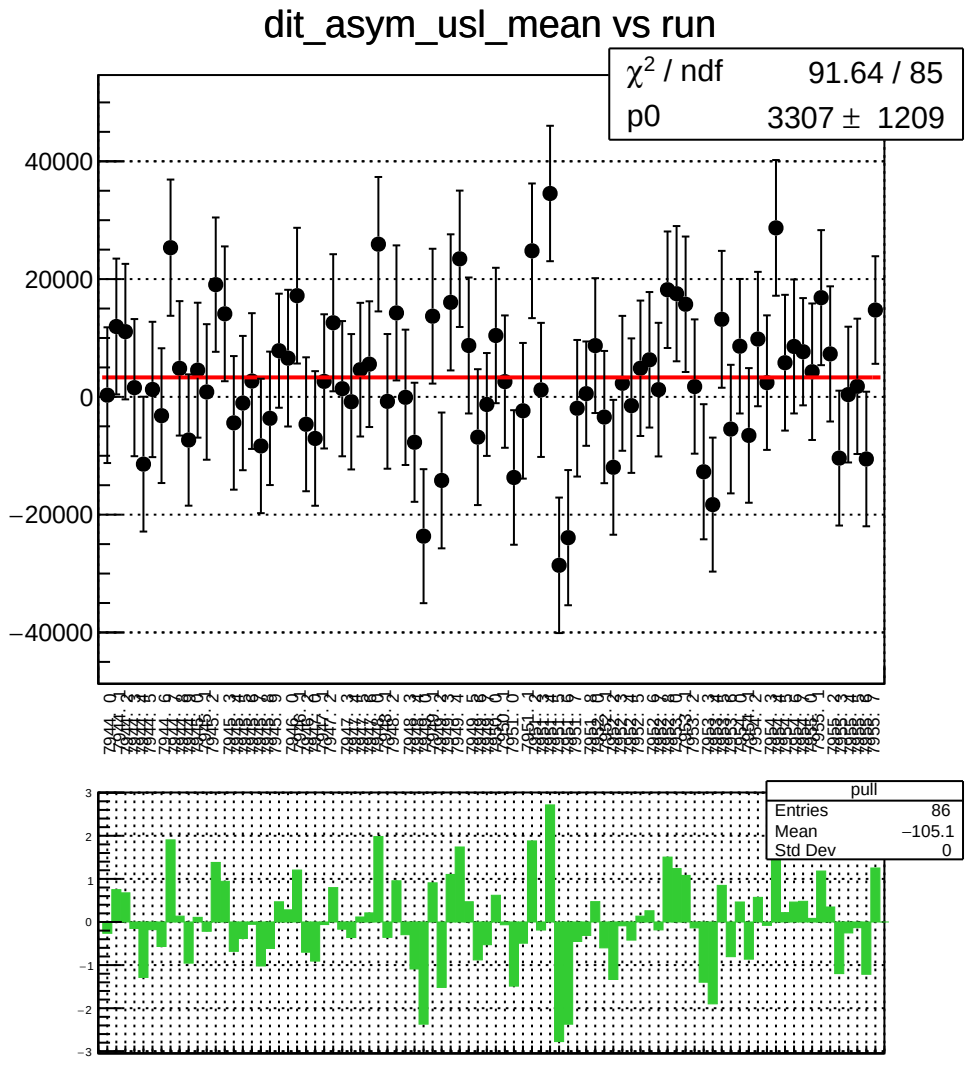

pull1D
Entries 86
Mean −0.002076
Std Dev 1.033
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

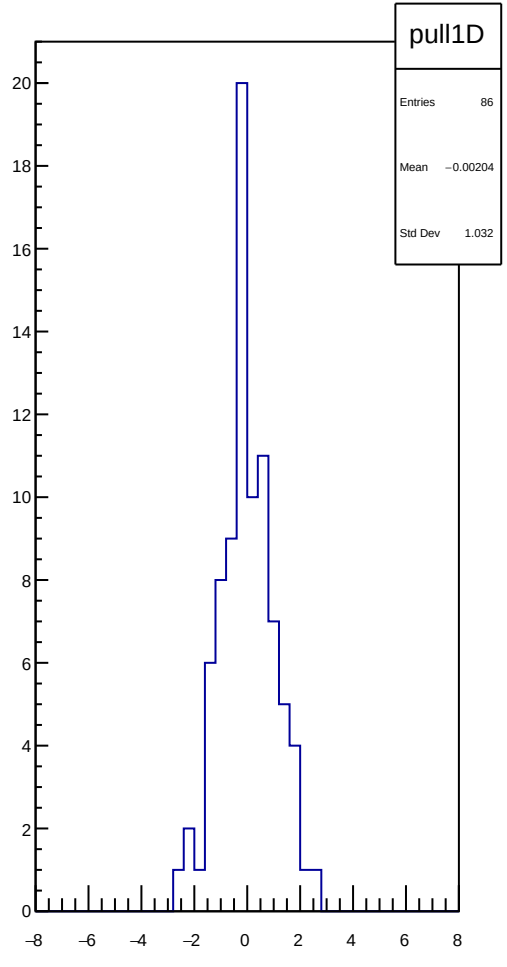

eigen_cor_asym_usl_rms vs run
χ² / ndf 68.78 / 85
p0 1086 ± 0.8533
1110
1100
1090
1080
1070
1060

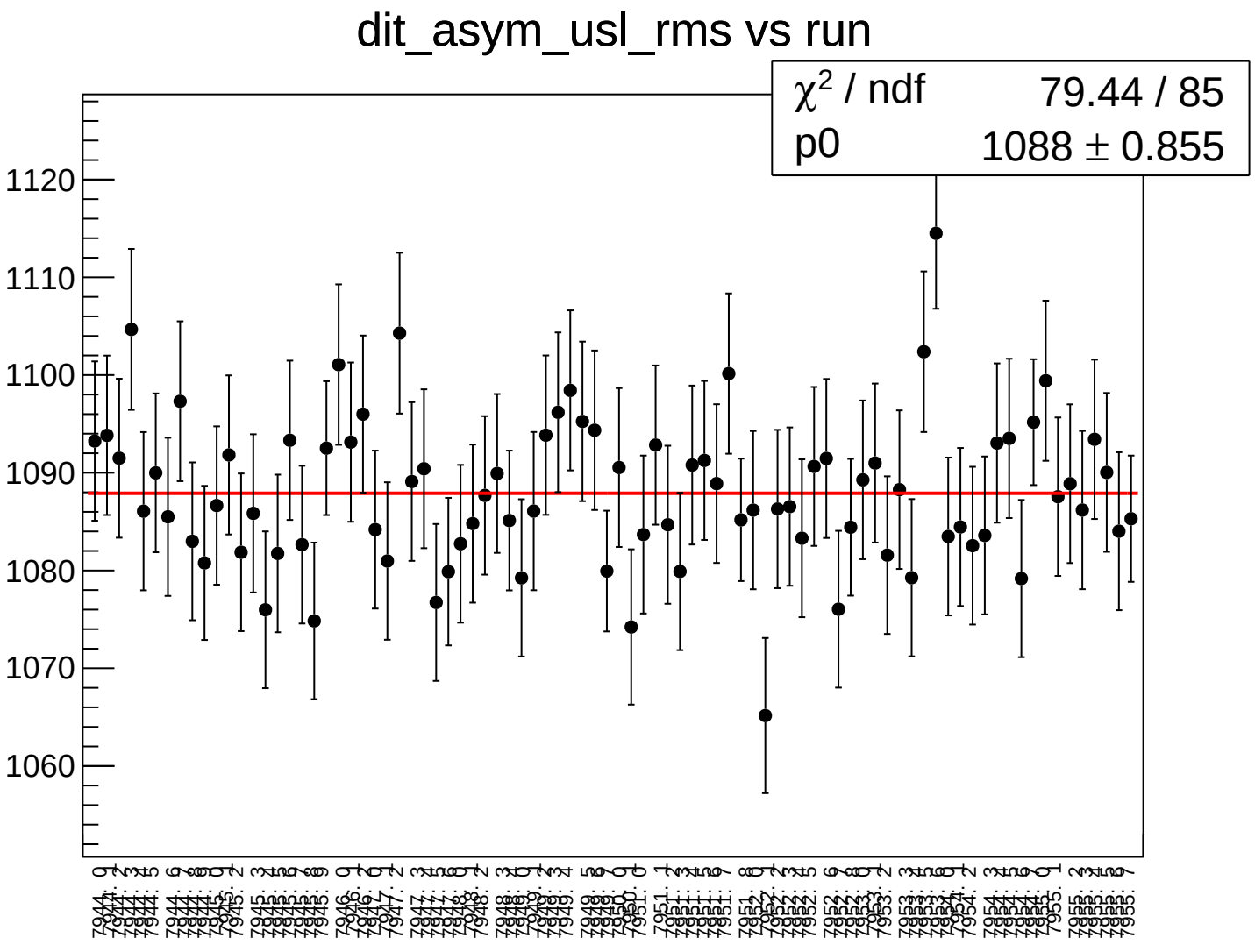

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 99.96 / 85
p0 −1103 ± 1432
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −793.2
Std Dev 0
2
1
0
−1
−2

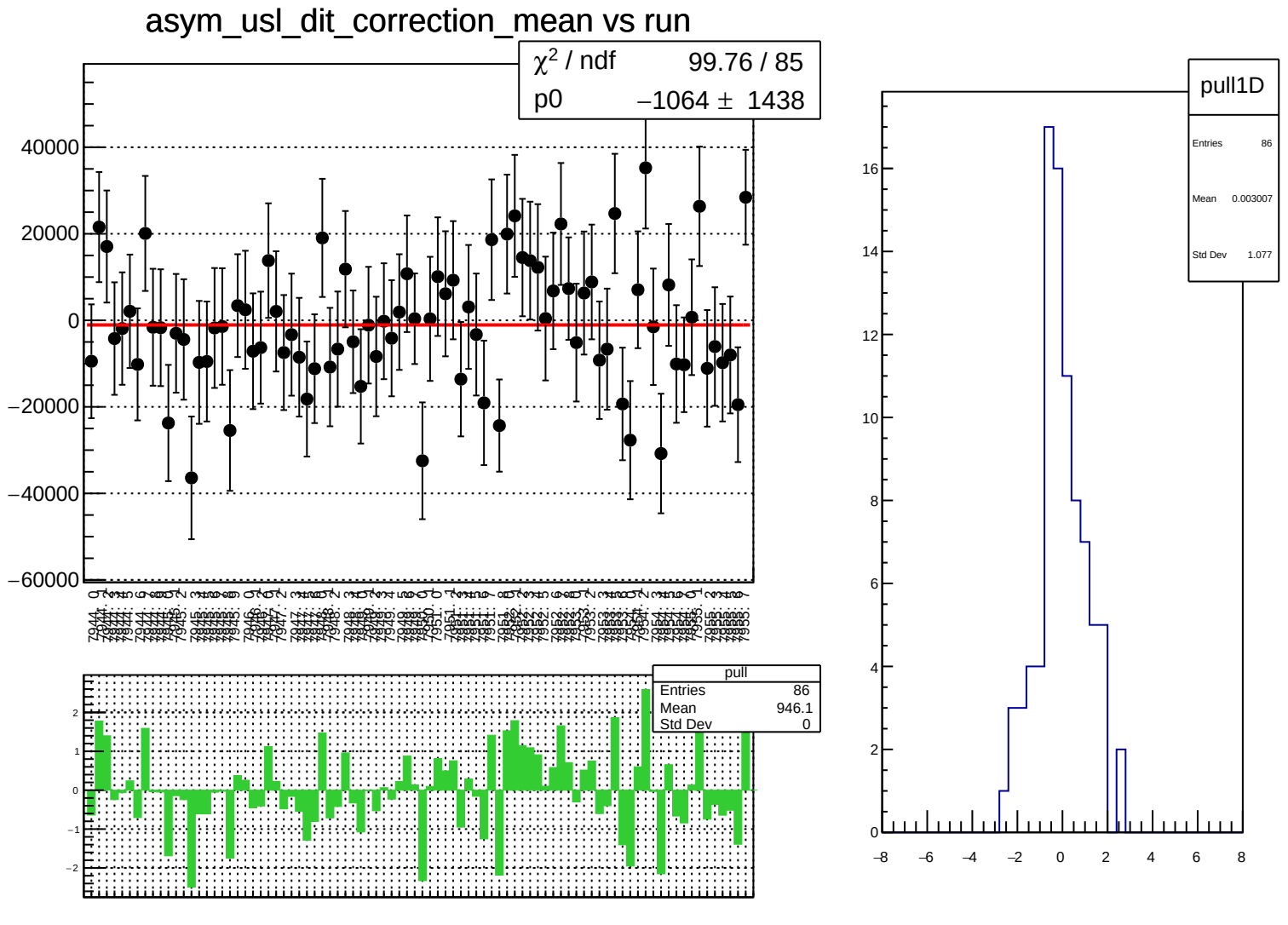

pull1D
Entries 86
Mean −0.003361
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

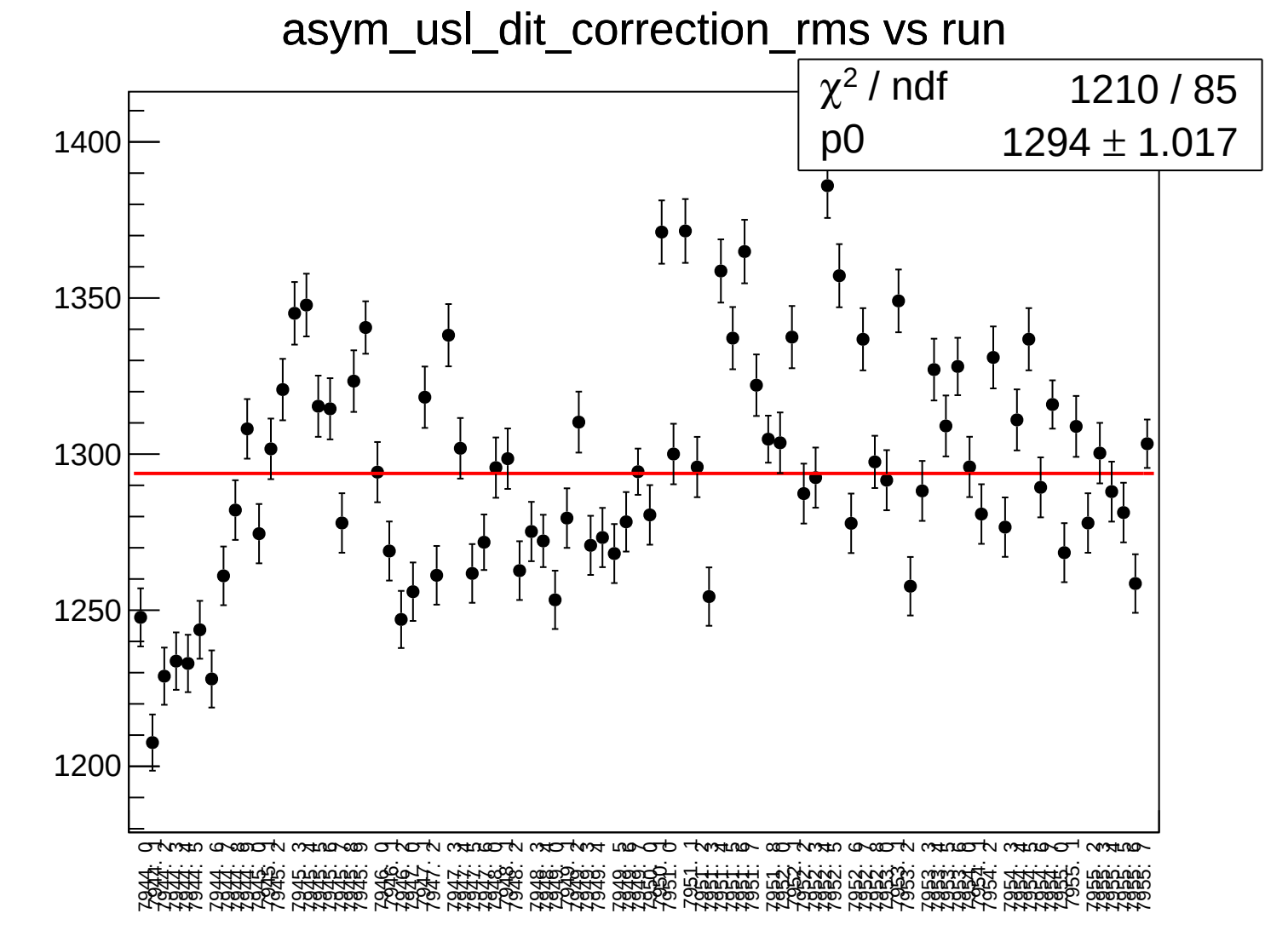

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1803 / 85
p0 1287 ± 1.012
1400
1350
1300
1250
1200

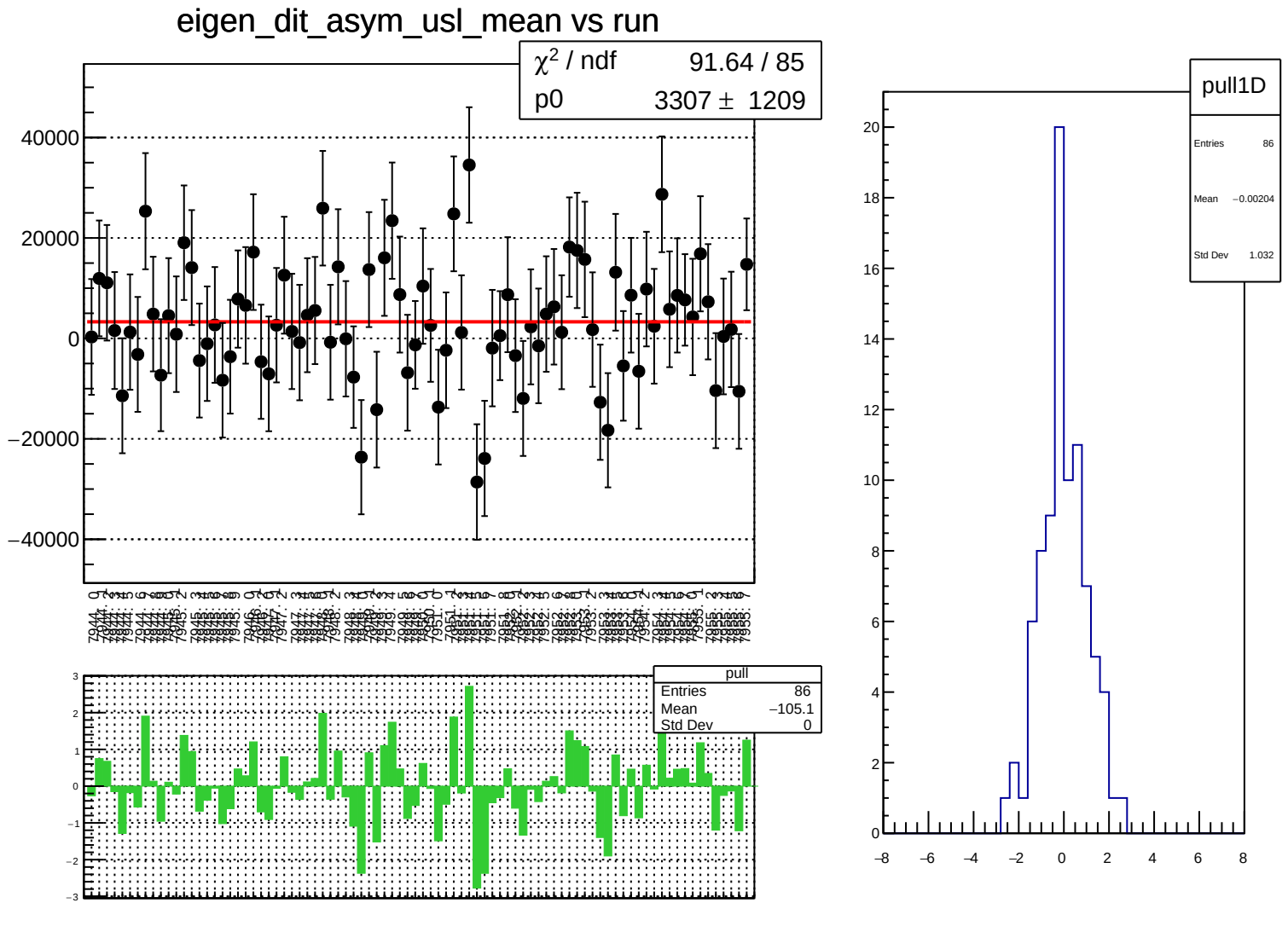

dit_asym_usl_mean vs run
χ² / ndf 91.64 / 85
p0 3307 ± 1209
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −105.1
Std Dev 0
3
2
1
0
−1
−2
−3

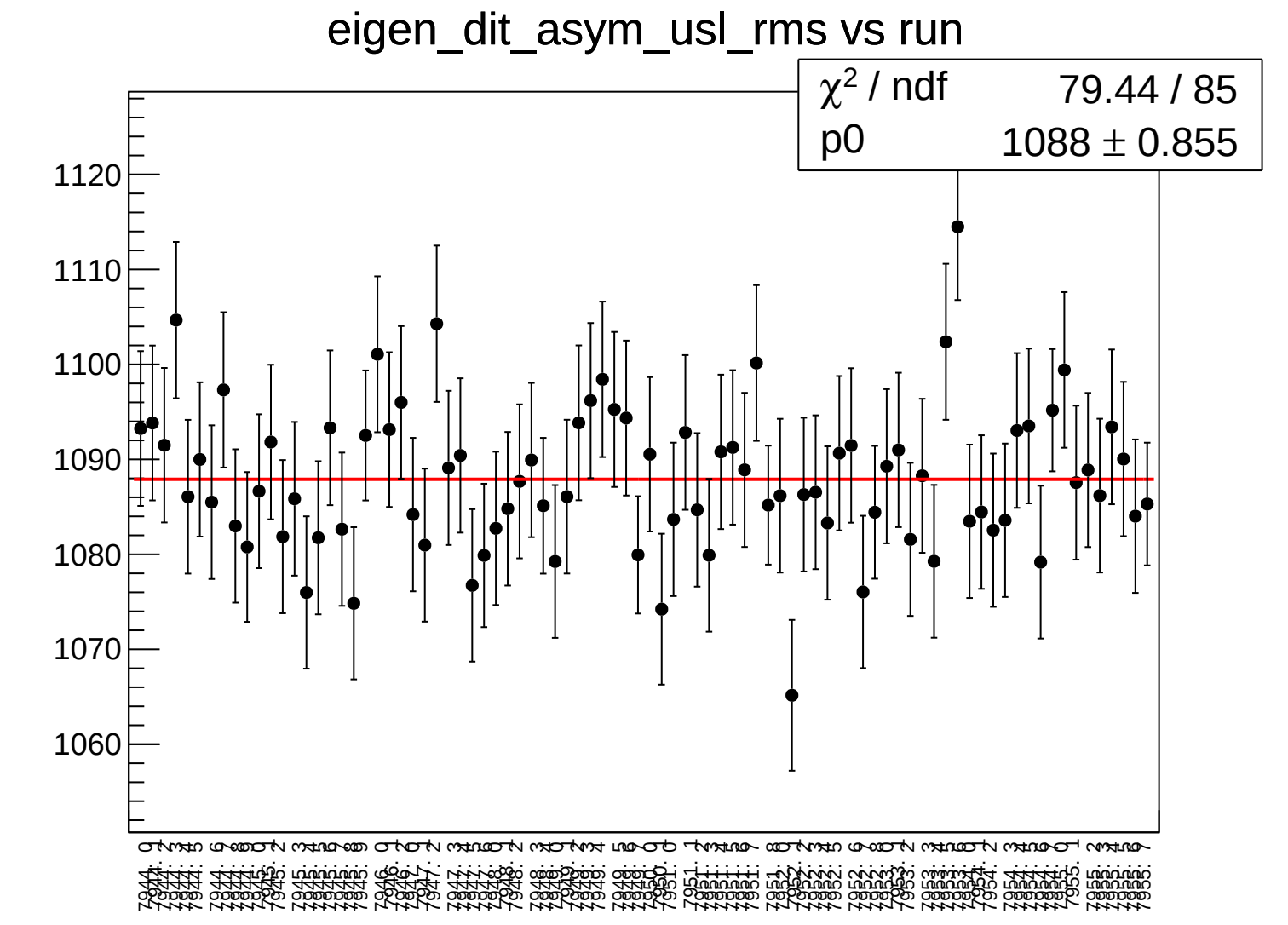

pull1D
Entries 86
Mean −0.00204
Std Dev 1.032
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

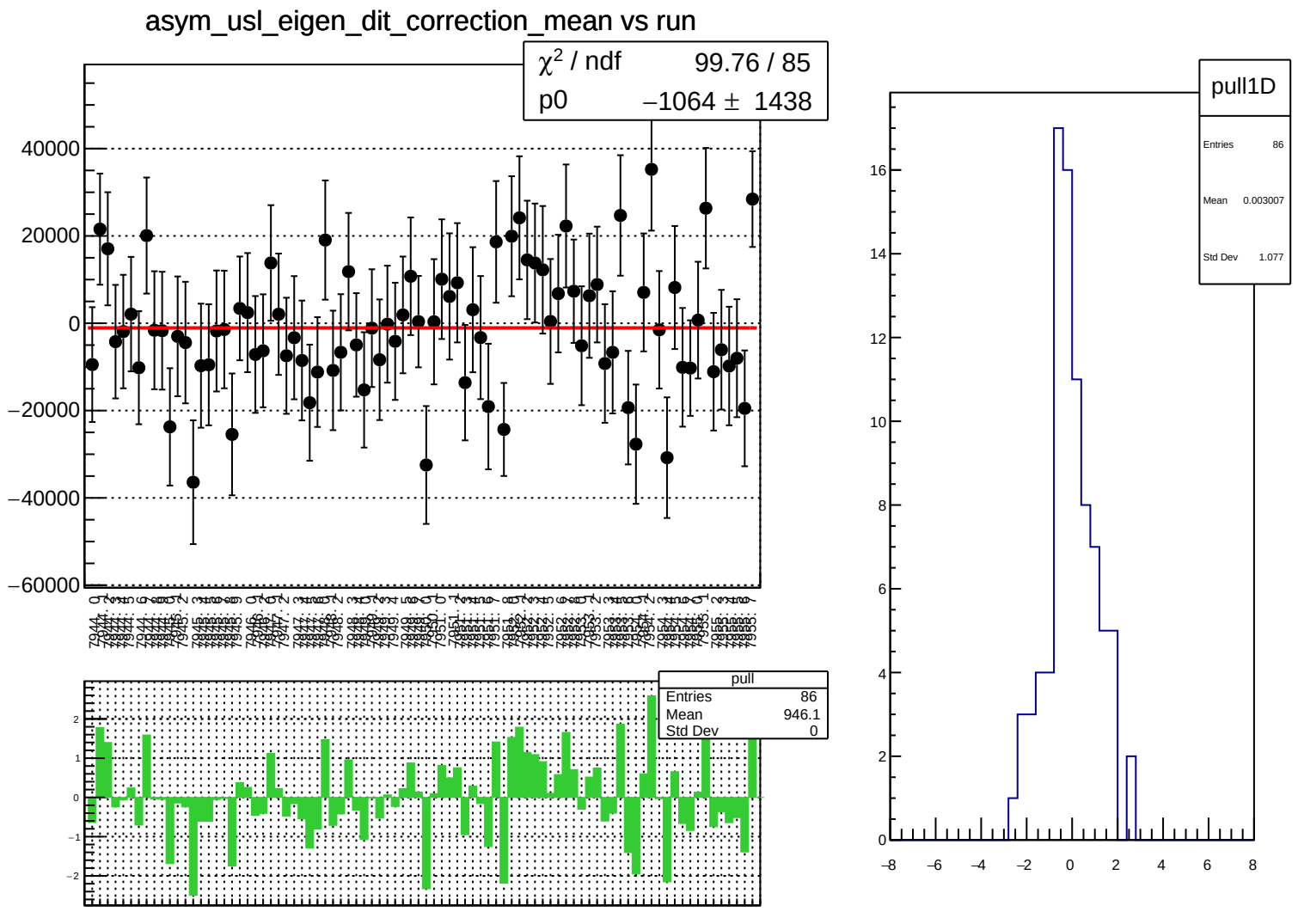

dit_asym_usl_rms vs run
χ^2 / ndf 79.44 / 85
p0 1088 ± 0.855
1120
1110
1100
1090
1080
1070
1060

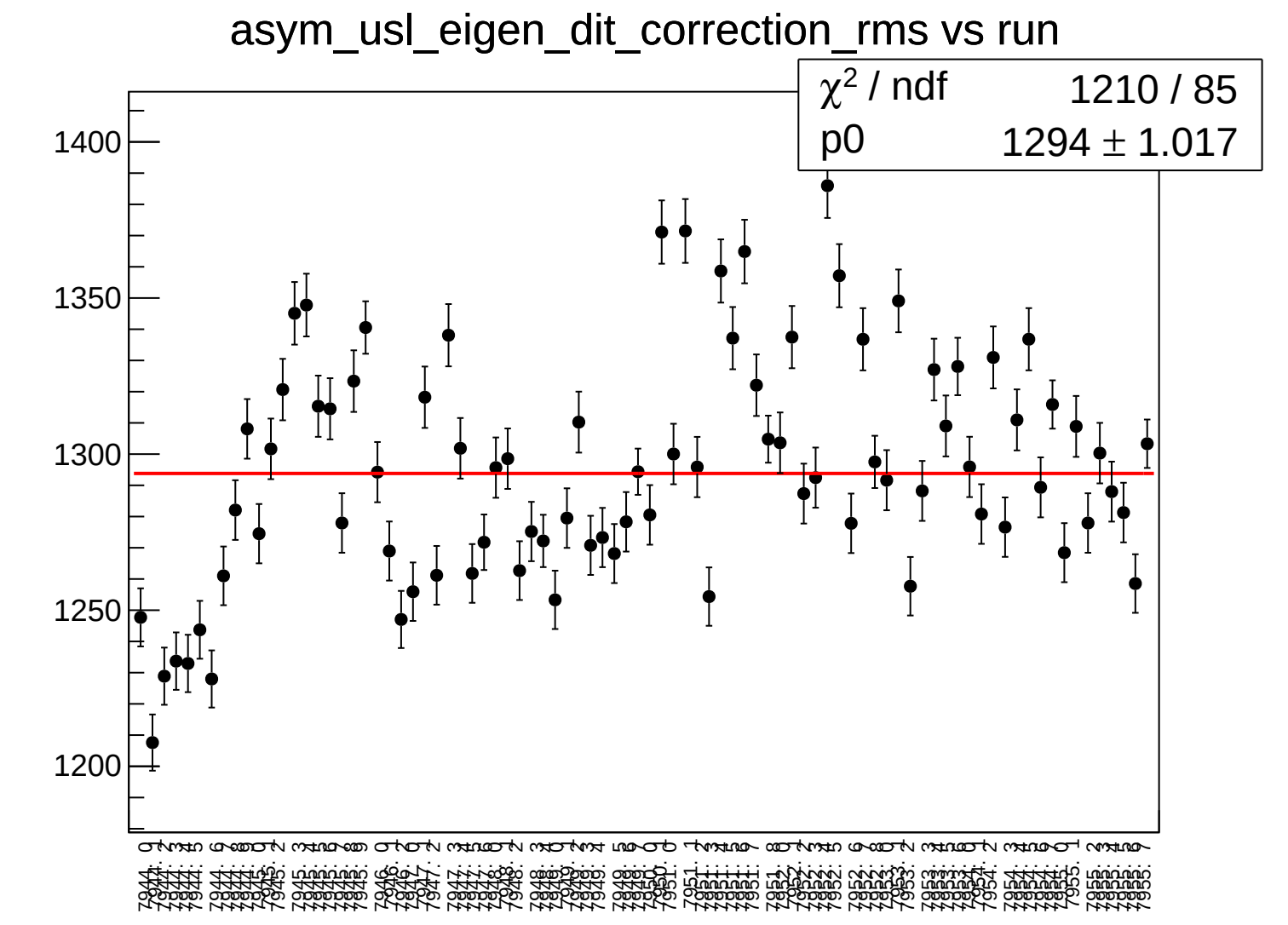

asym_usl_dit_correction_mean vs run
χ² / ndf 99.76 / 85
p0 −1064 ± 1438
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 946.1
Std Dev 0
pull1D
Entries 86
Mean 0.003007
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

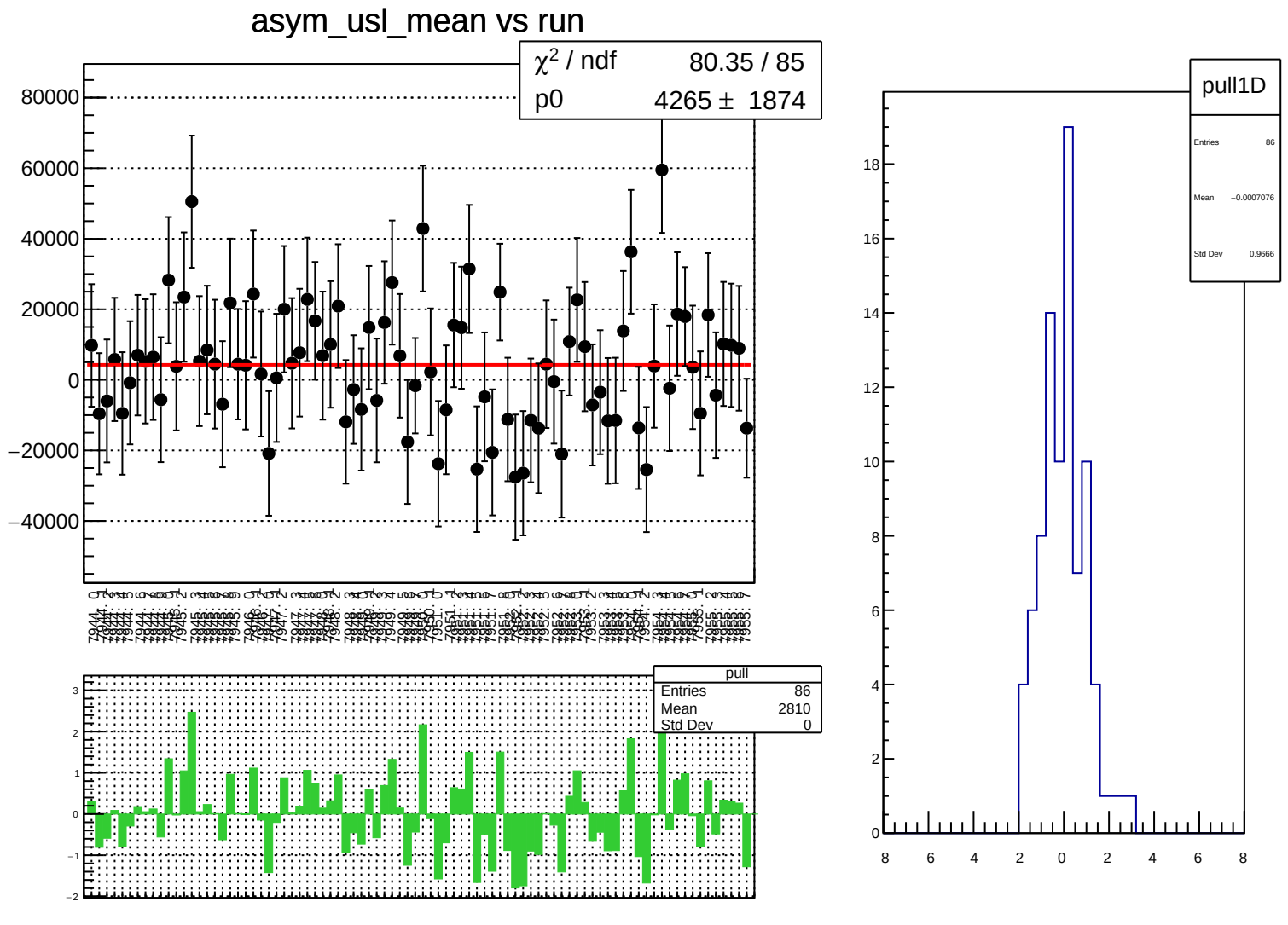

asym_usl_dit_correction_rms vs run
χ² / ndf 1210 / 85
p0 1294 ± 1.017
1400
1350
1300
1250
1200

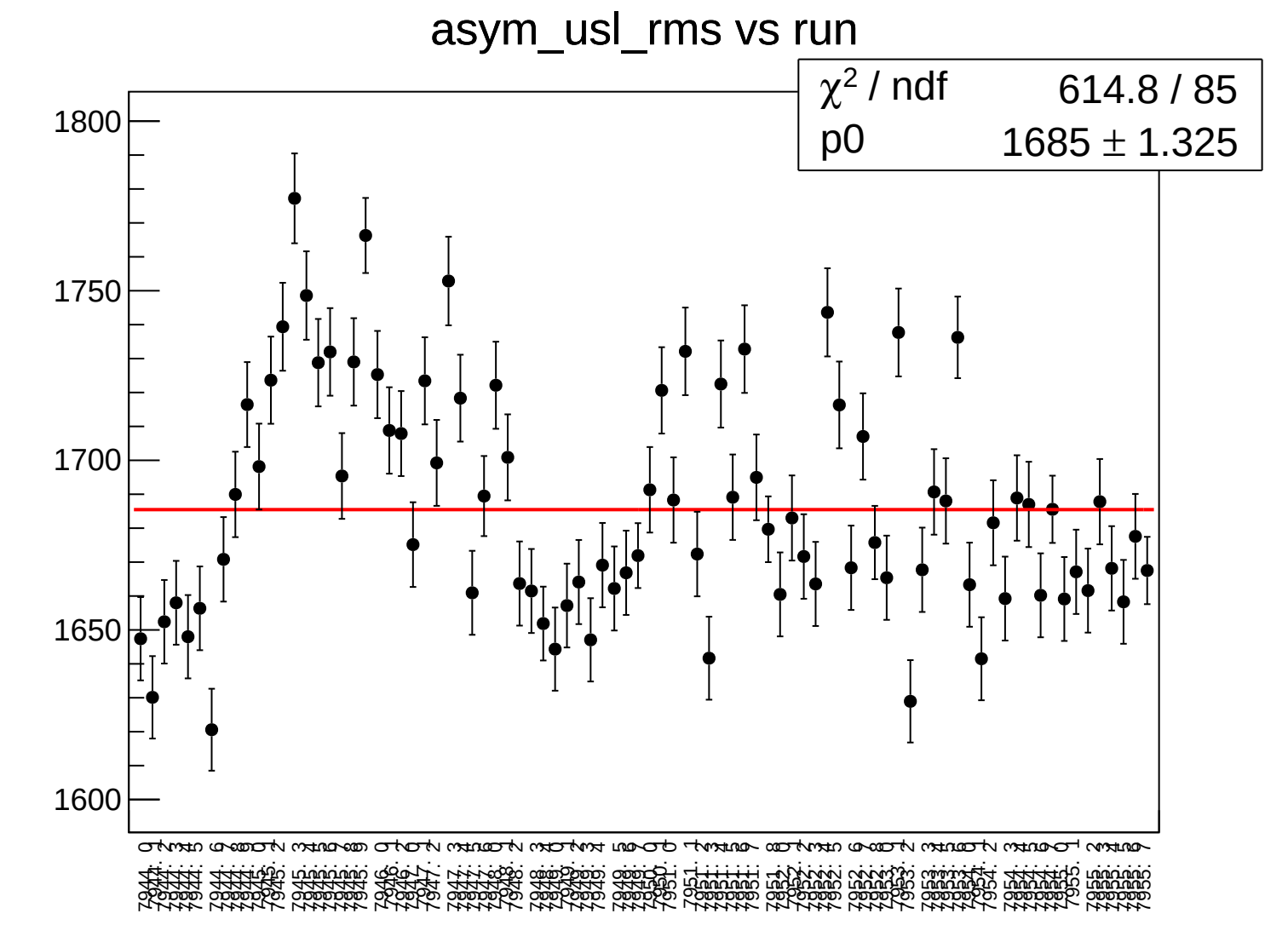

eigen_dit_asym_usl_mean vs run
χ² / ndf 91.64 / 85
p0 3307 ± 1209
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −105.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.00204
Std Dev 1.032
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

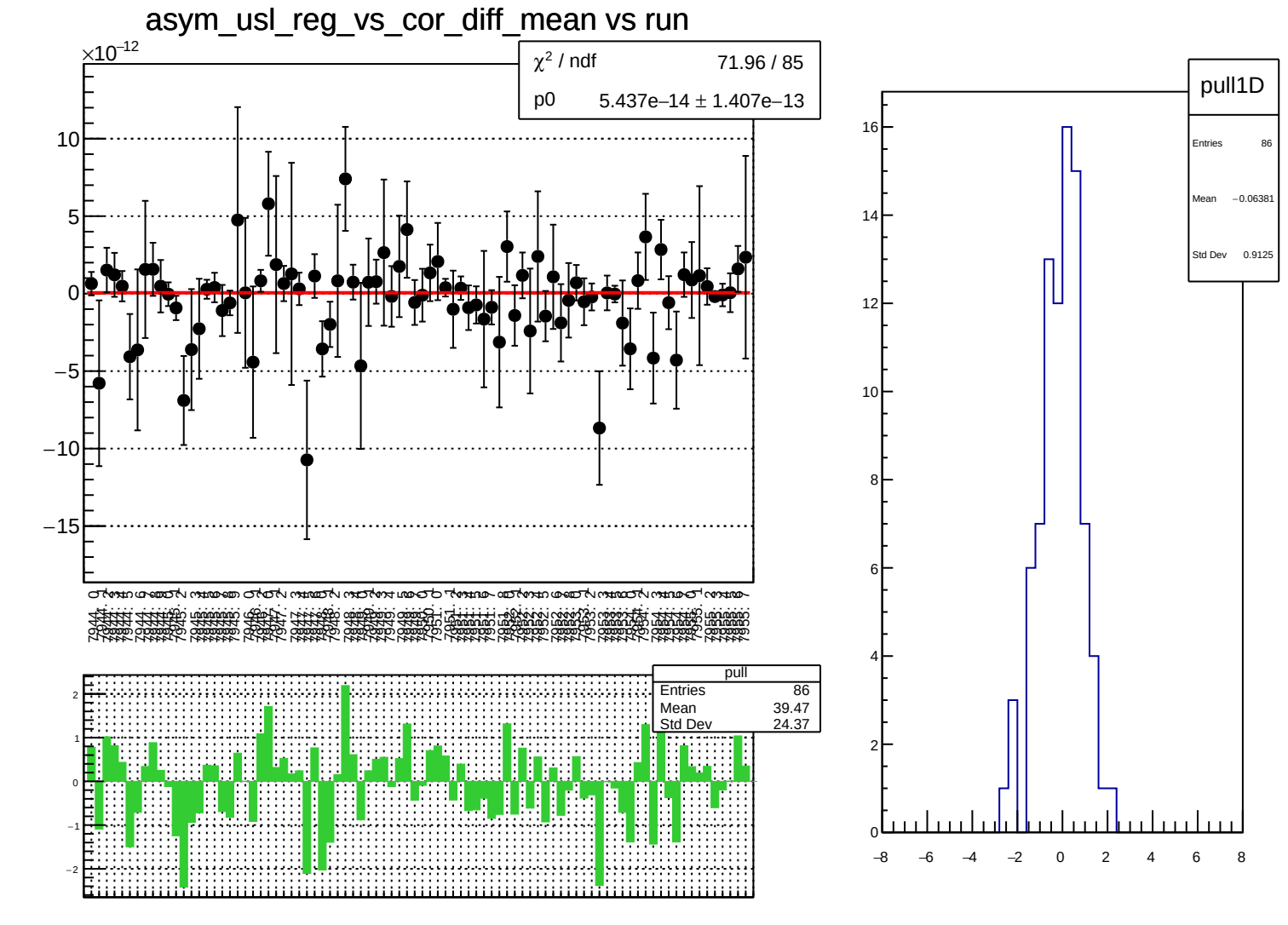

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 79.44 / 85
p0 1088 ± 0.855
1120
1110
1100
1090
1080
1070
1060

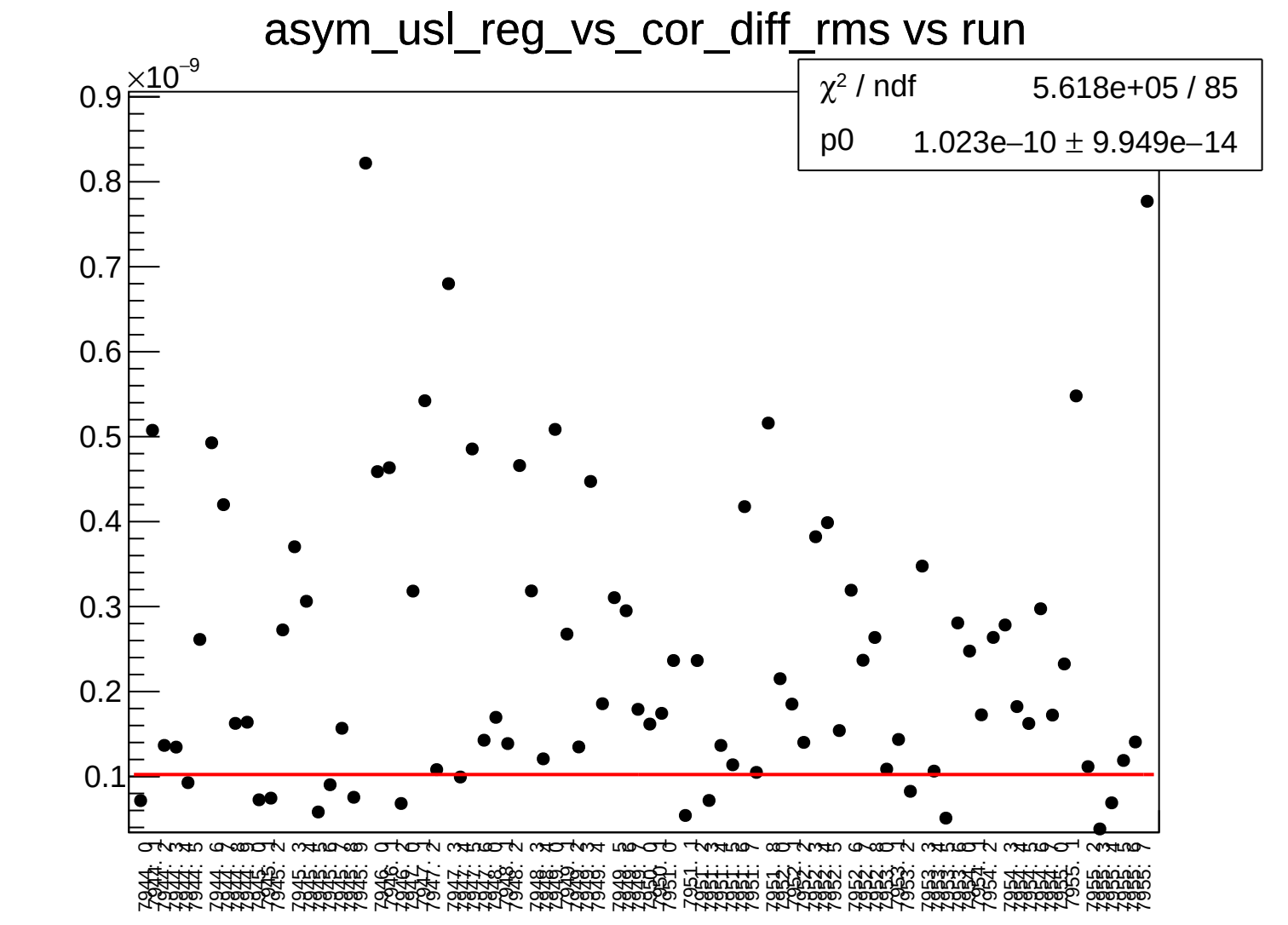

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 99.76 / 85
p0 −1064 ± 1438
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 946.1
Std Dev 0
pull1D
Entries 86
Mean 0.003007
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

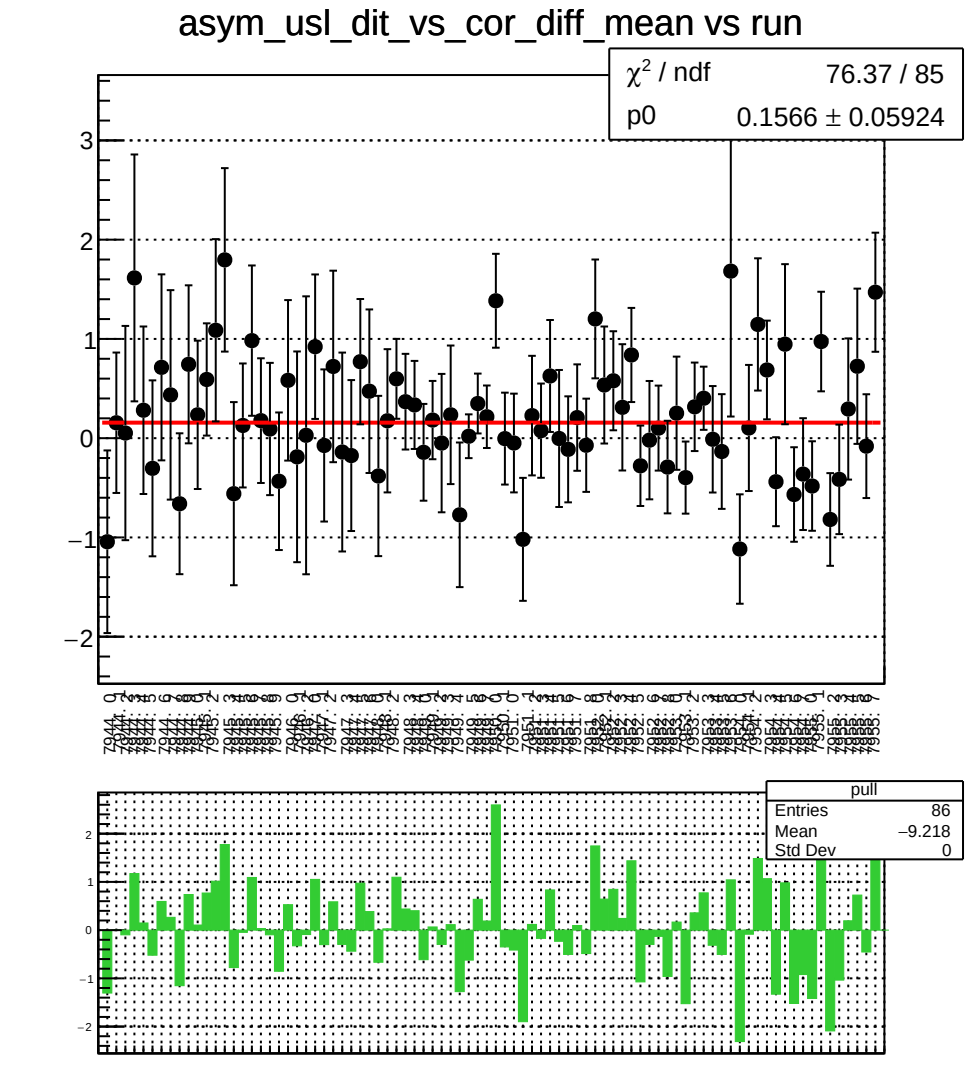

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1210 / 85
p0 1294 ± 1.017
1400
1350
1300
1250
1200

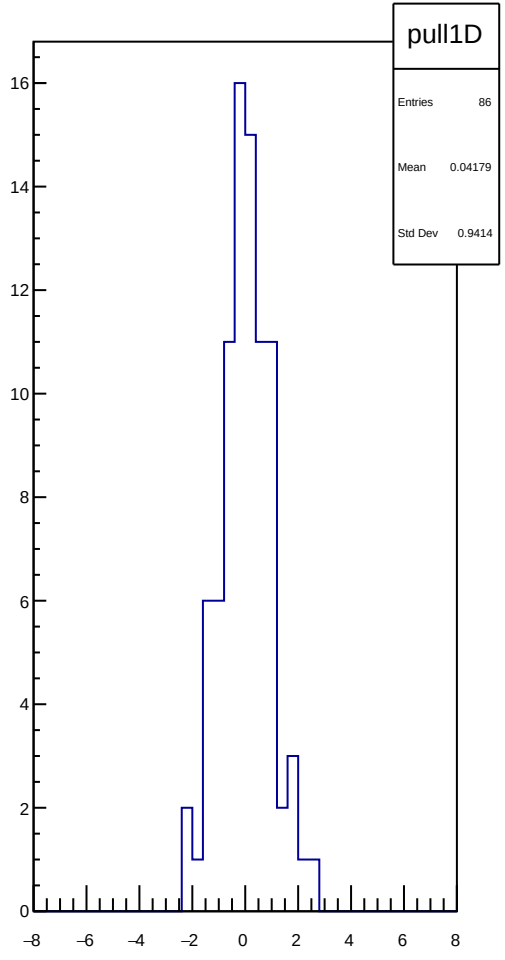

asym_usl_mean vs run
χ² / ndf 80.35 / 85
p0 4265 ± 1874
pull
Entries 86
Mean 2810
Std Dev 0
pull1D
Entries 86
Mean −0.0007076
Std Dev 0.9666

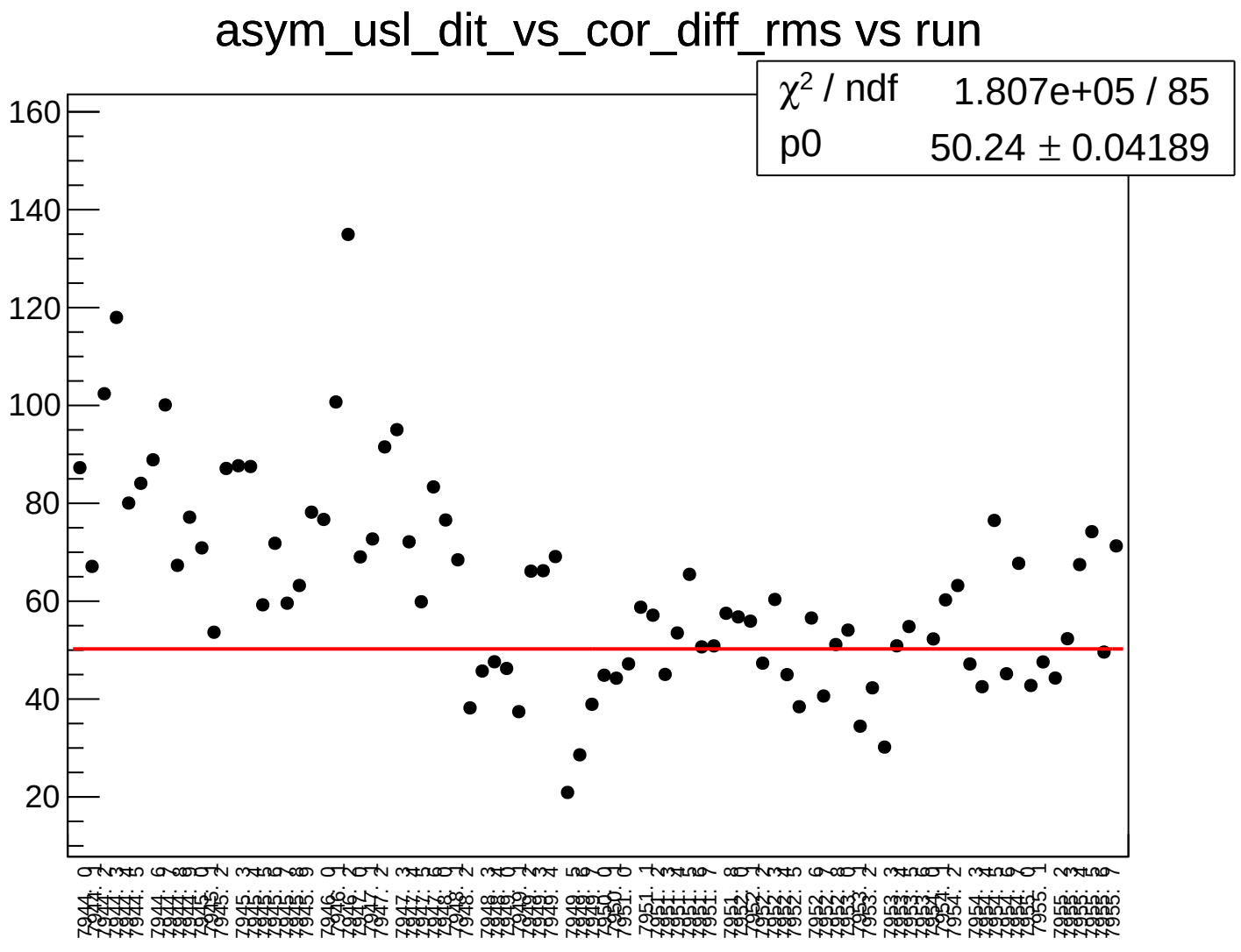

asym_usl_rms vs run
χ² / ndf 614.8 / 85
p0 1685 ± 1.325
1800
1750
1700
1650
1600

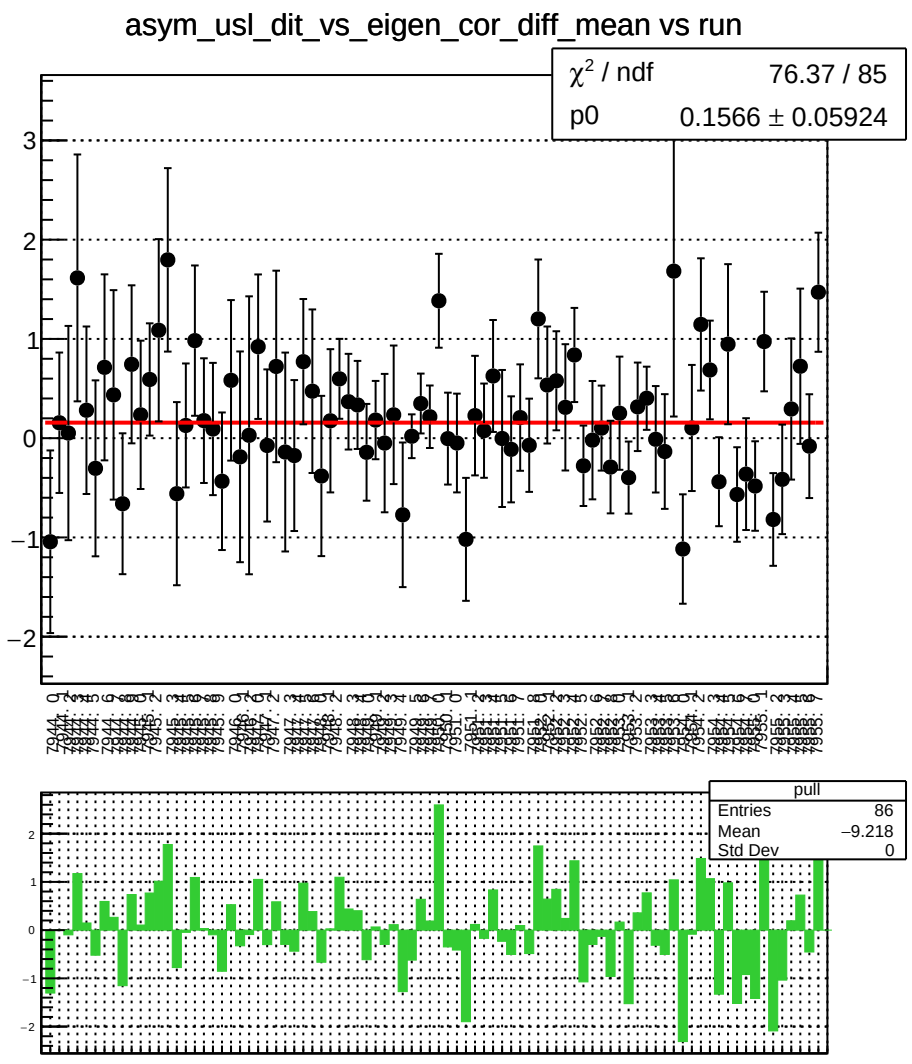

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.96 / 85
p0 5.437e−14 ± 1.407e−13
pull
Entries 86
Mean 39.47
Std Dev 24.37
pull1D
Entries 86
Mean −0.06381
Std Dev 0.9125

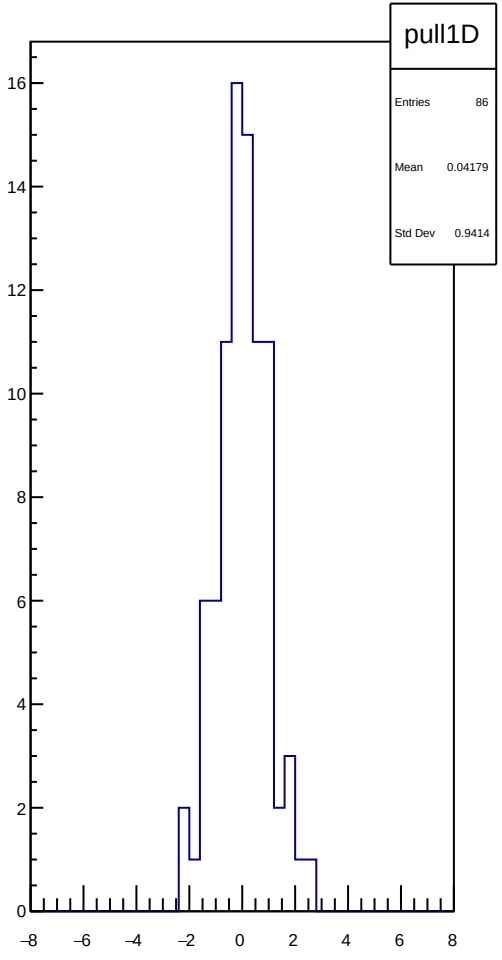

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.618e+05 / 85
p0 1.023e−10 ± 9.949e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

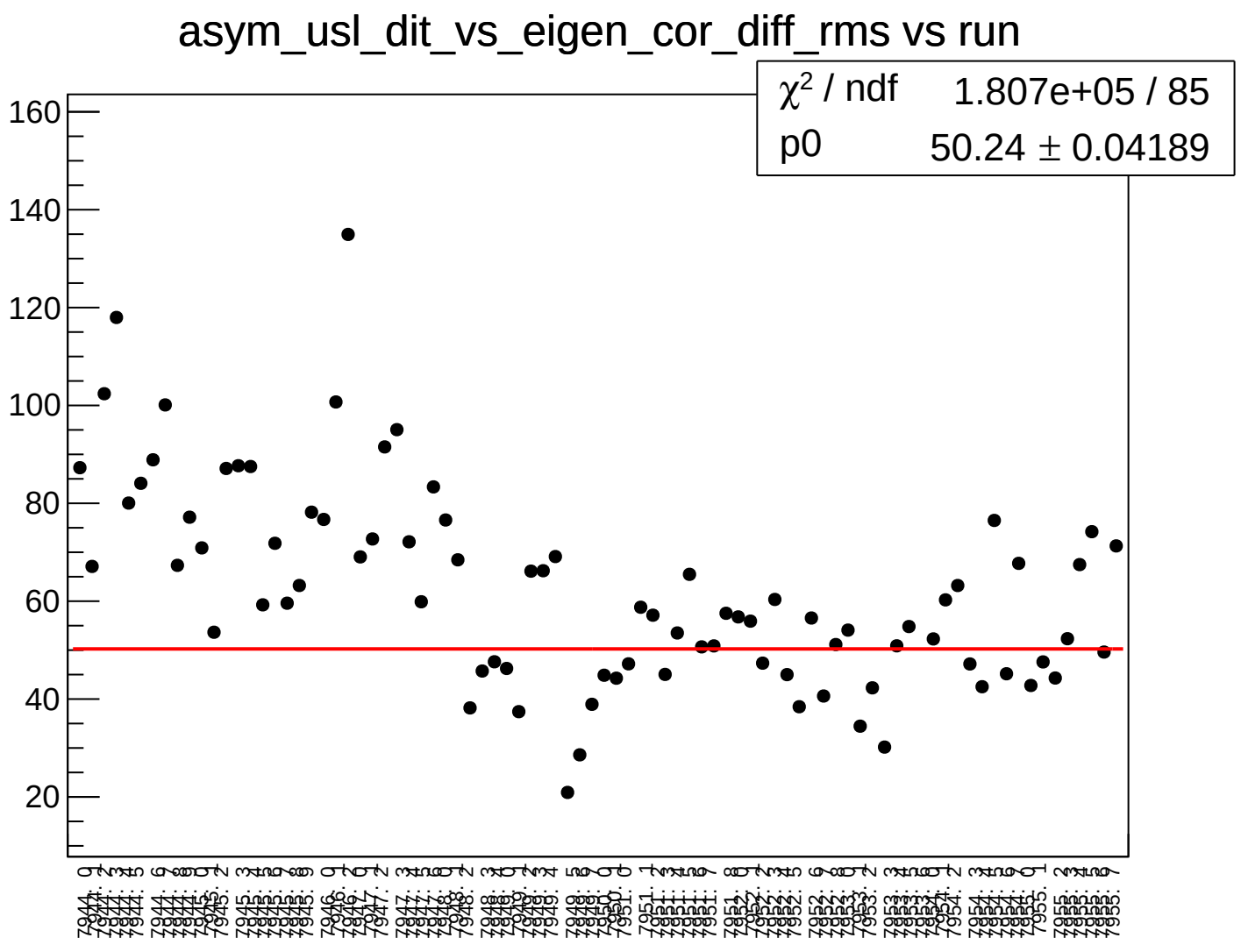

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 76.37 / 85
p0 0.1566 ± 0.05924
pull
Entries 86
Mean −9.218
Std Dev 0

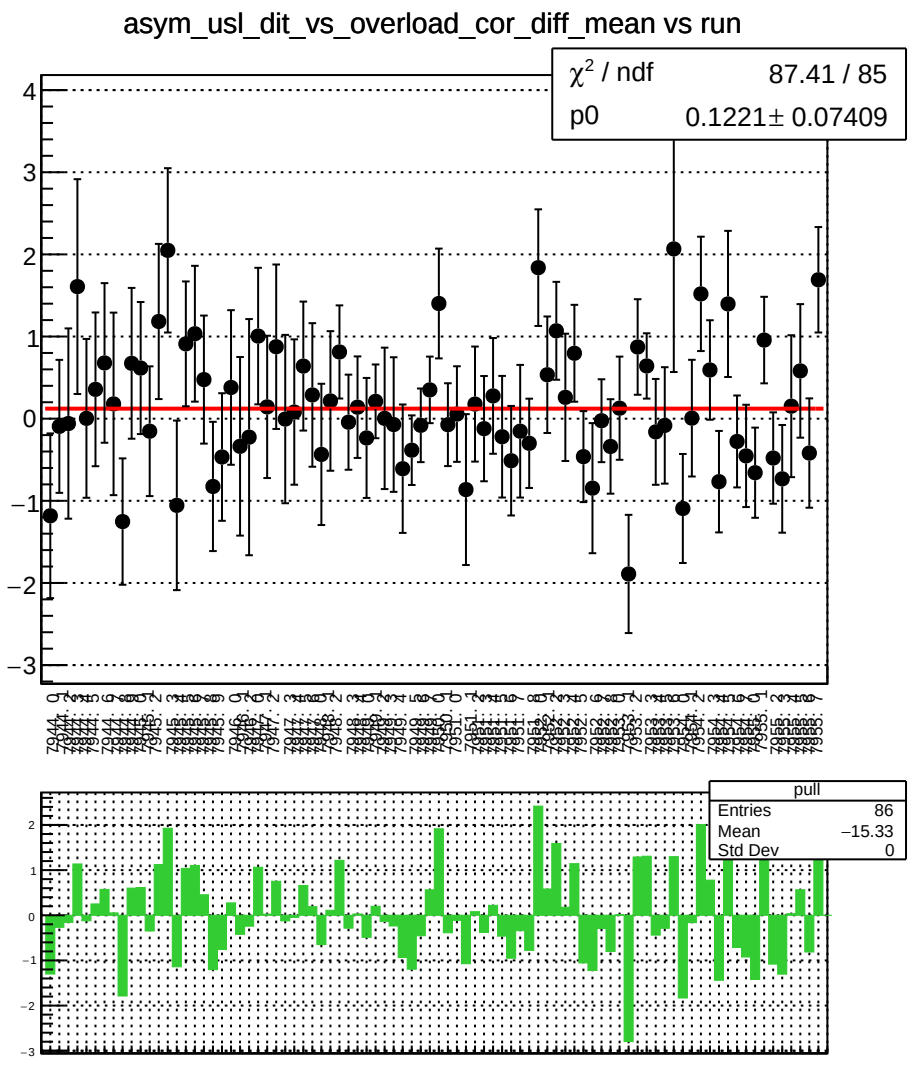

pull1D
Entries 86
Mean 0.04179
Std Dev 0.9414

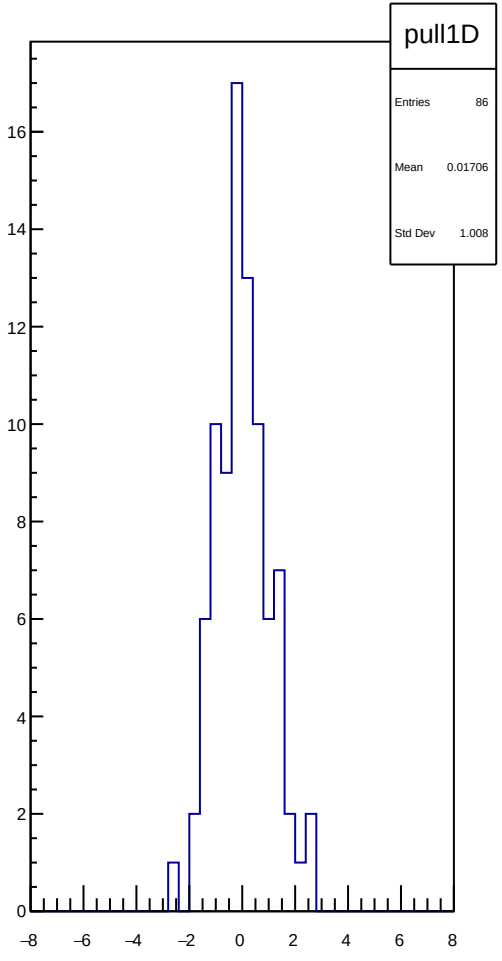

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.807e+05 / 85
p0 50.24 ± 0.04189
160
140
120
100
80
60
40
20

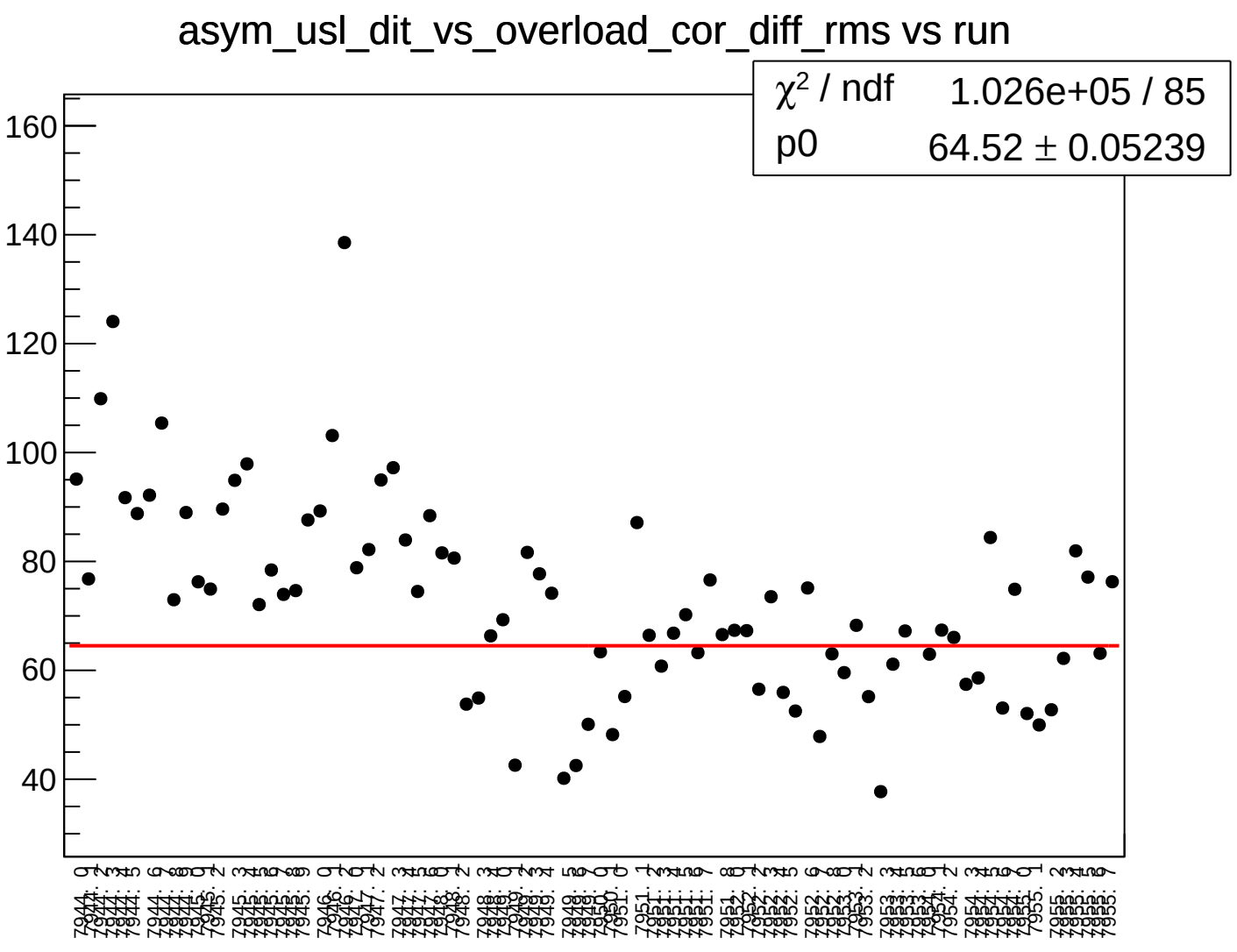

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.37 / 85
p0 0.1566 ± 0.05924
pull
Entries 86
Mean −9.218
Std Dev 0

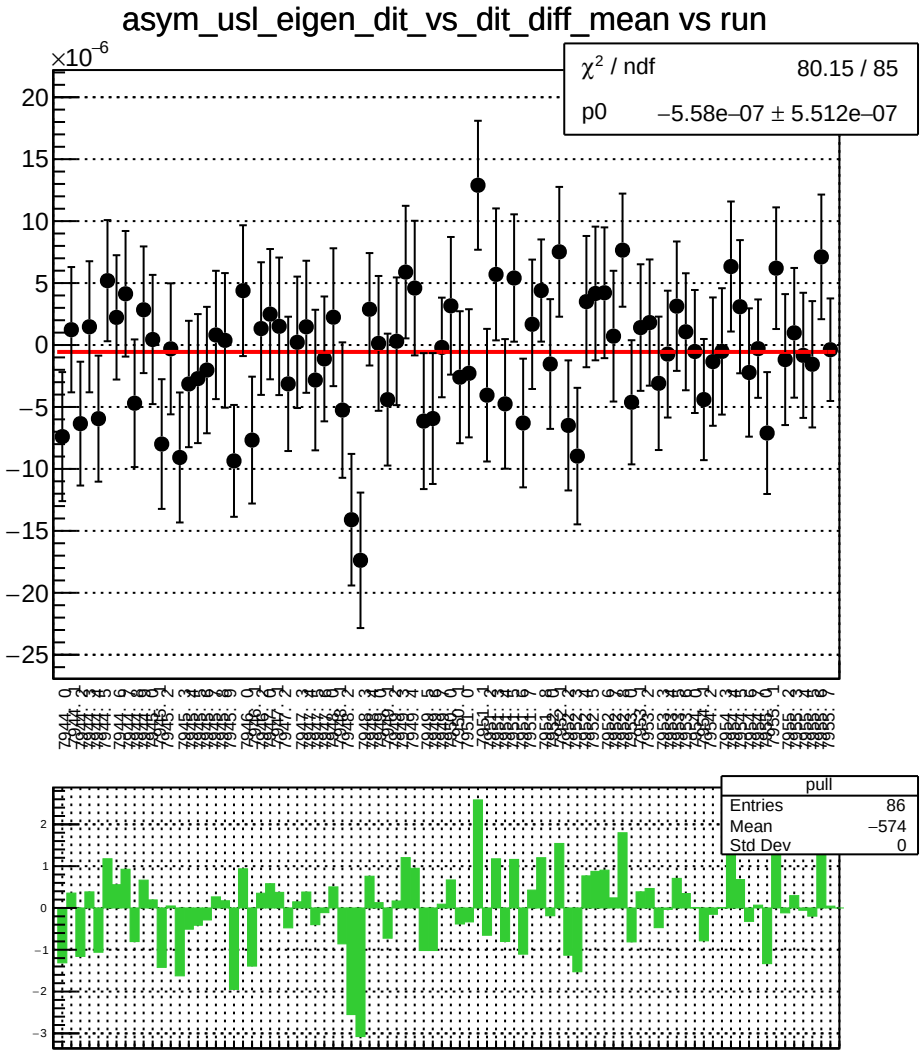

pull1D
Entries 86
Mean 0.04179
Std Dev 0.9414

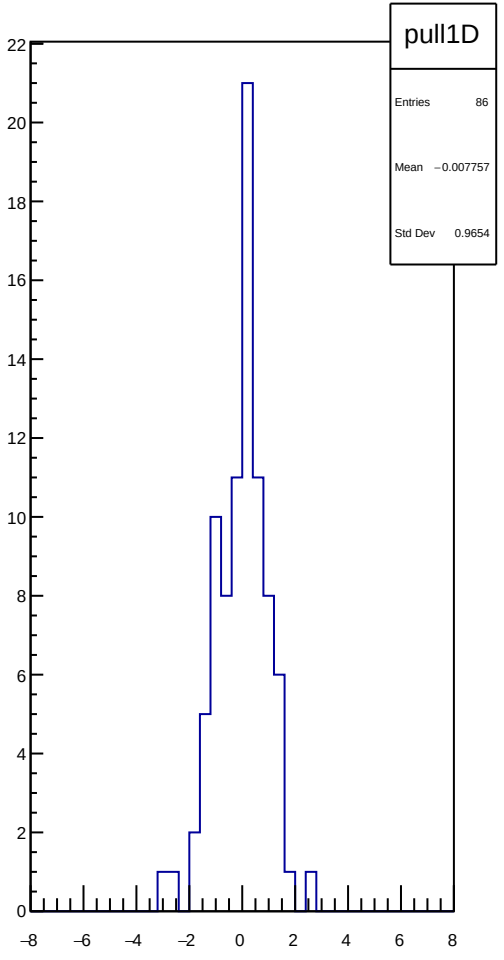

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.807e+05 / 85
p0 50.24 ± 0.04189
160
140
120
100
80
60
40
20

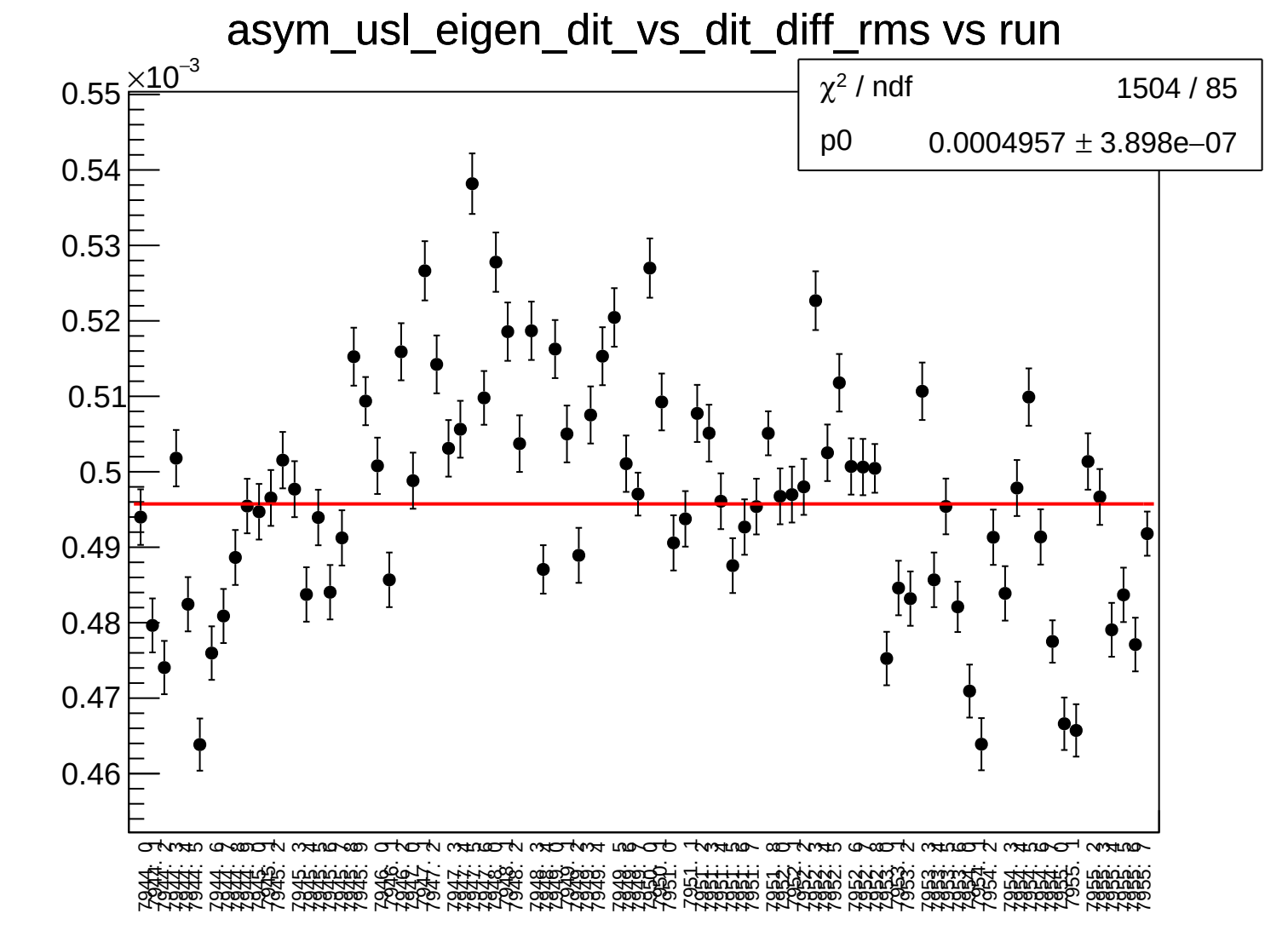

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.41 / 85
p0 0.1221± 0.07409
pull
Entries 86
Mean −15.33
Std Dev 0

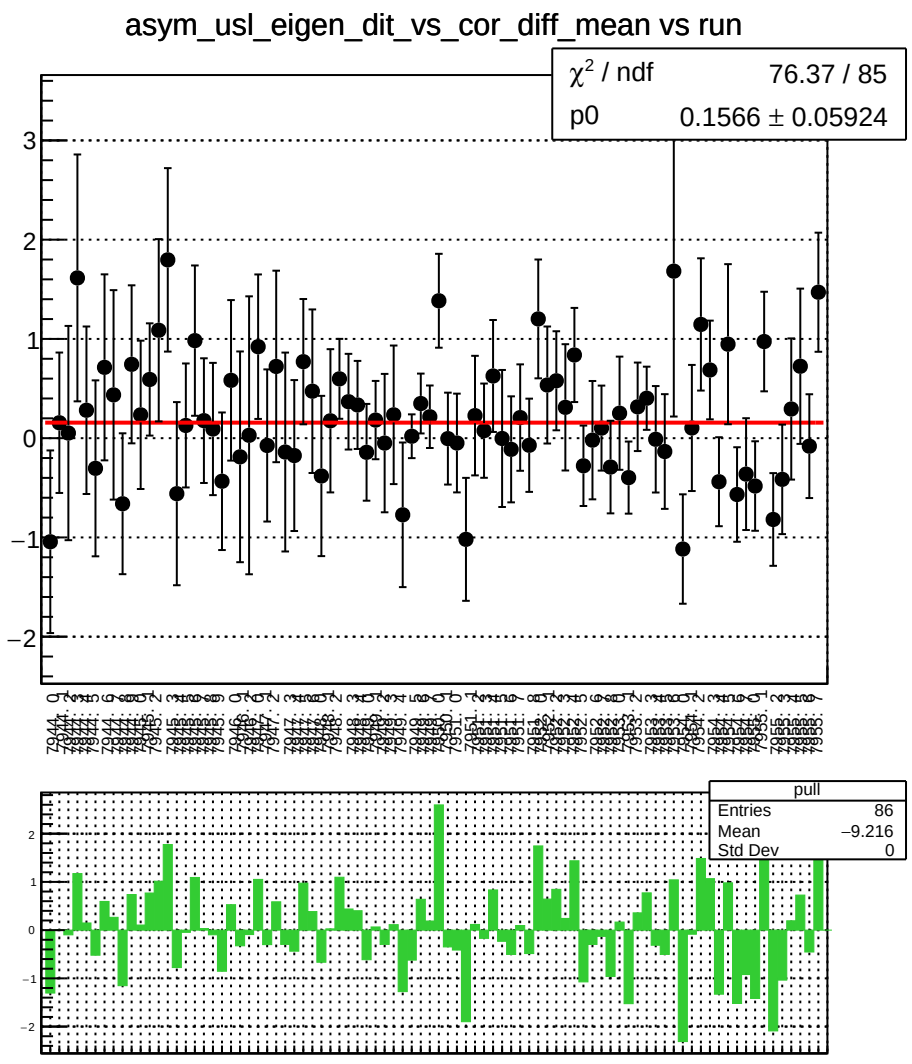

pull1D
Entries 86
Mean 0.01706
Std Dev 1.008

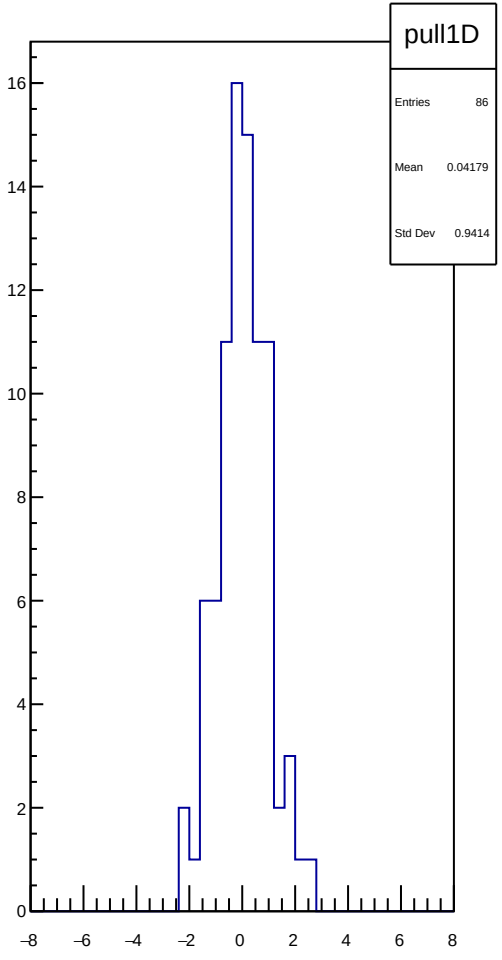

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.026e+05 / 85
p0 64.52 ± 0.05239
160
140
120
100
80
60
40

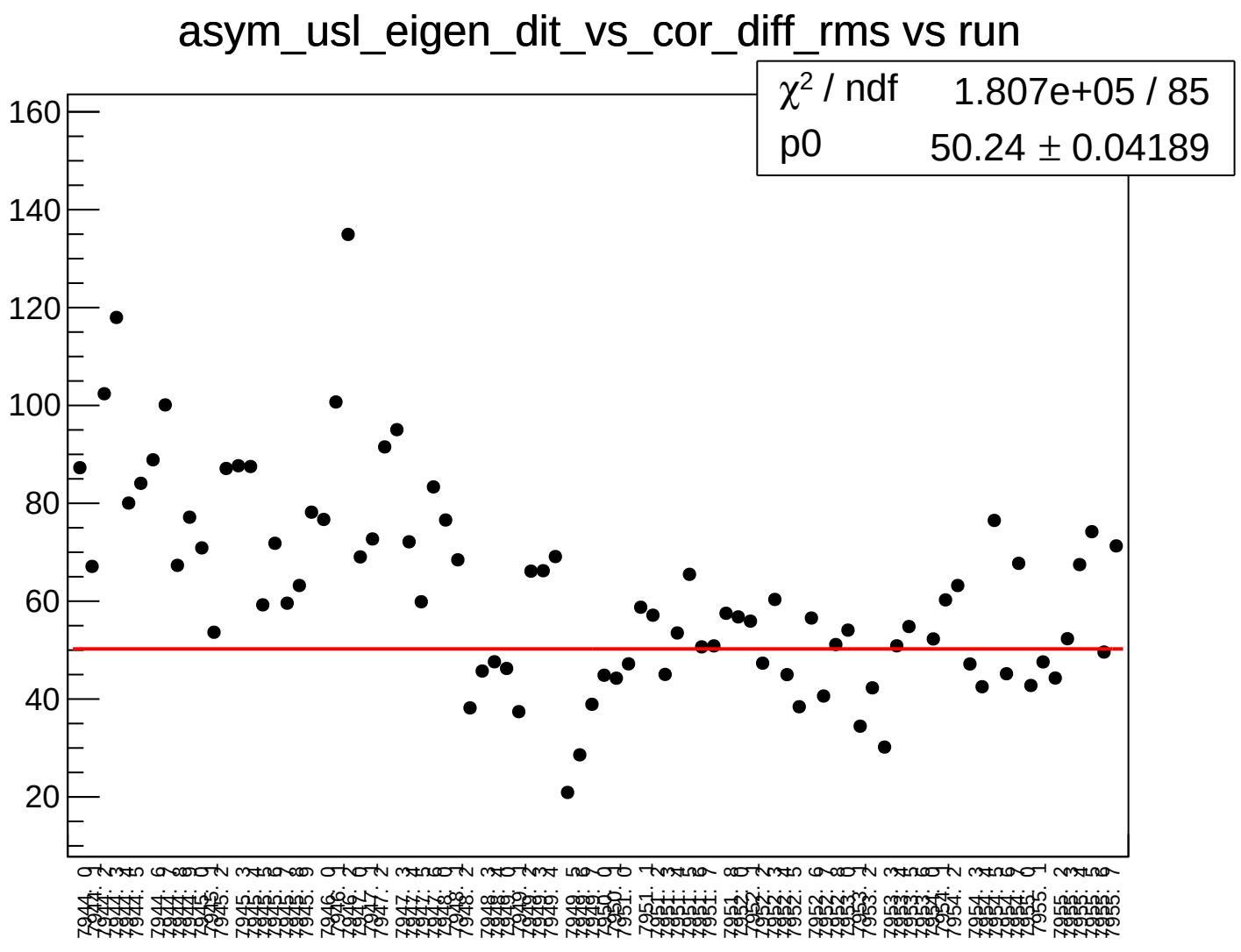

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 80.15 / 85
p0 −5.58e−07 ± 5.512e−07
pull
Entries 86
Mean −574
Std Dev 0


pull1D
Entries 86
Mean −0.007757
Std Dev 0.9654

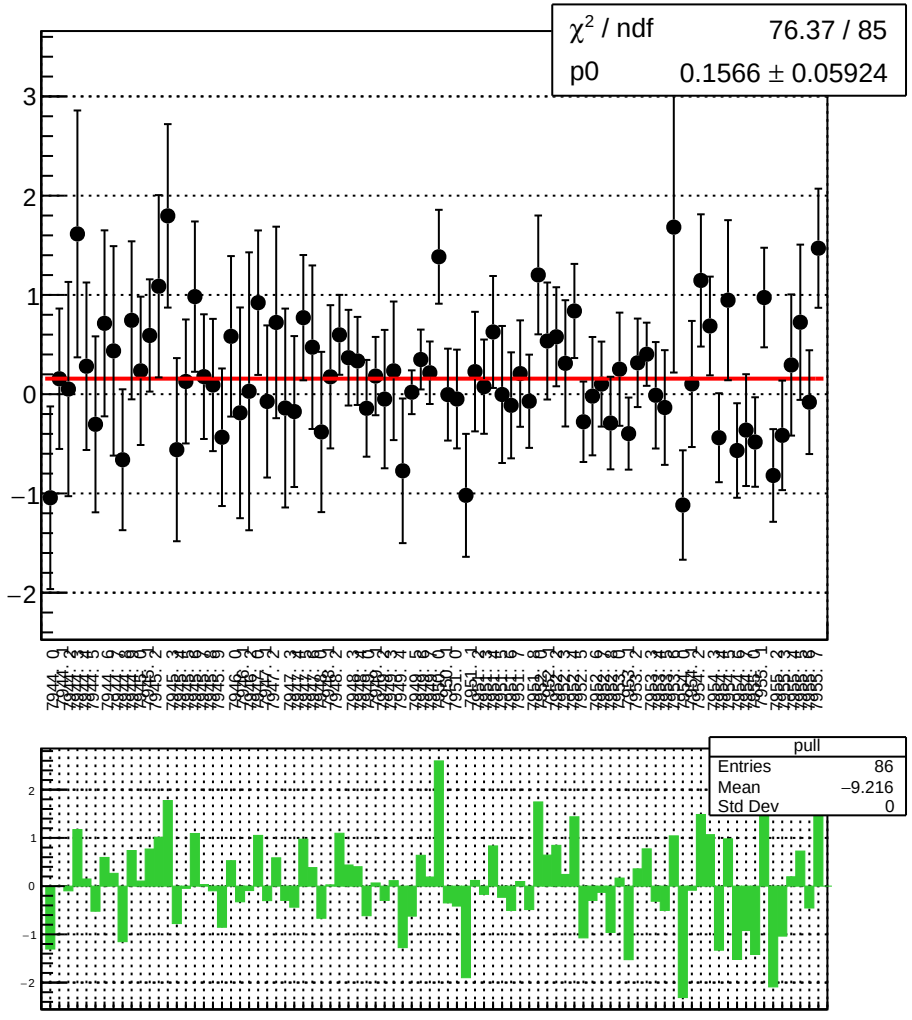

asym_usl_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1504 / 85
p0 0.0004957 ± 3.898e−07
0.55
0.54
0.53
0.52
0.51
0.5
0.49
0.48
0.47
0.46

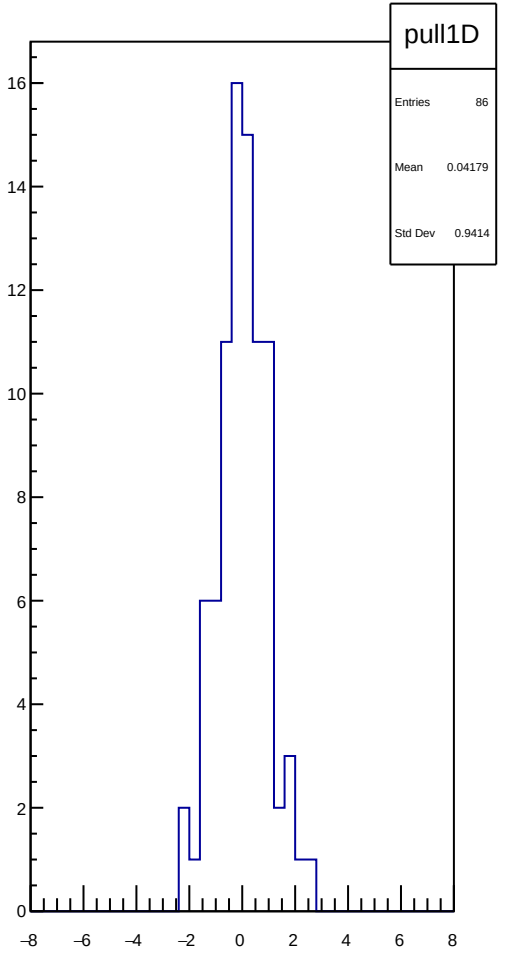

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.37 / 85
p0 0.1566 ± 0.05924
pull
Entries 86
Mean −9.216
Std Dev 0

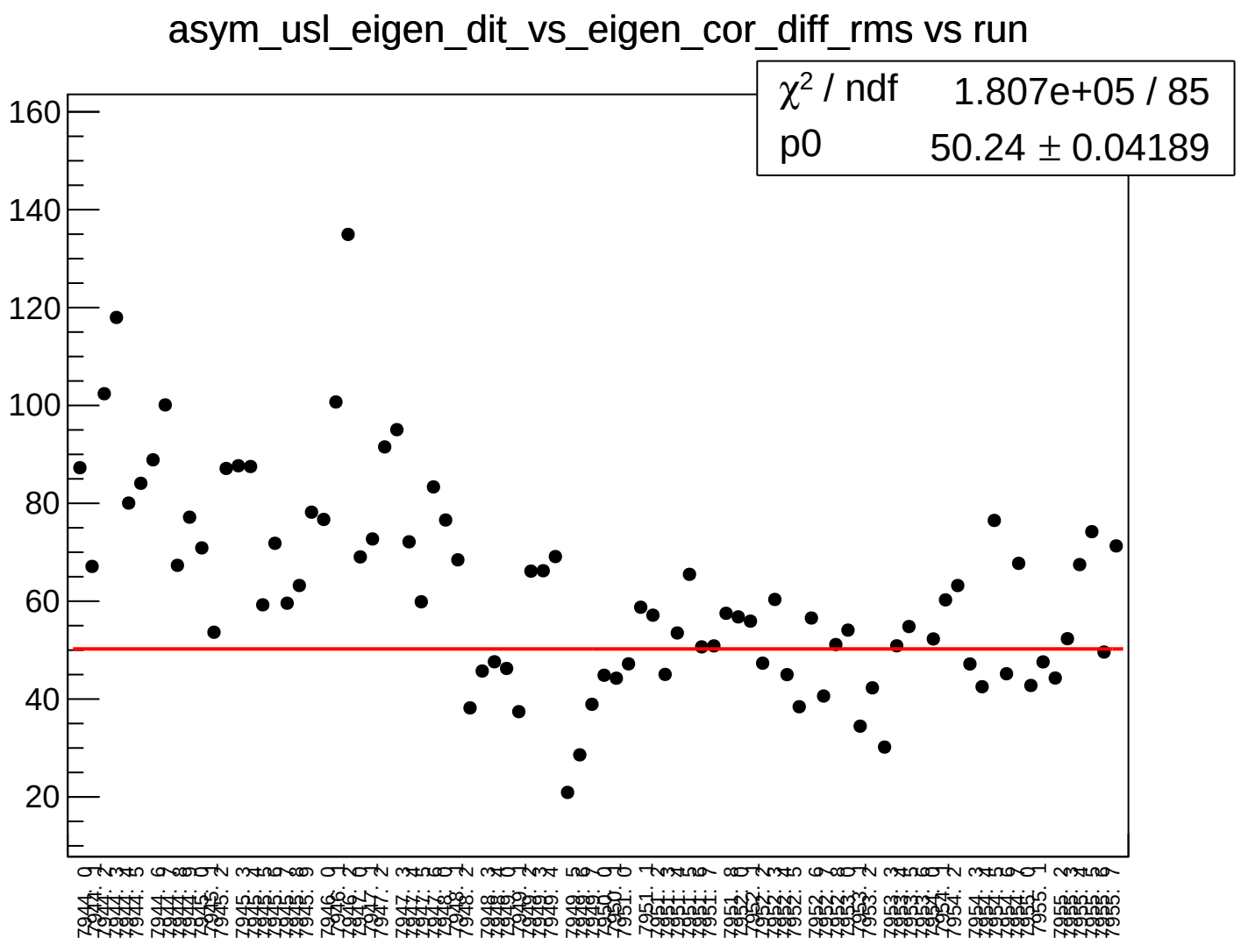

pull1D
Entries 86
Mean 0.04179
Std Dev 0.9414

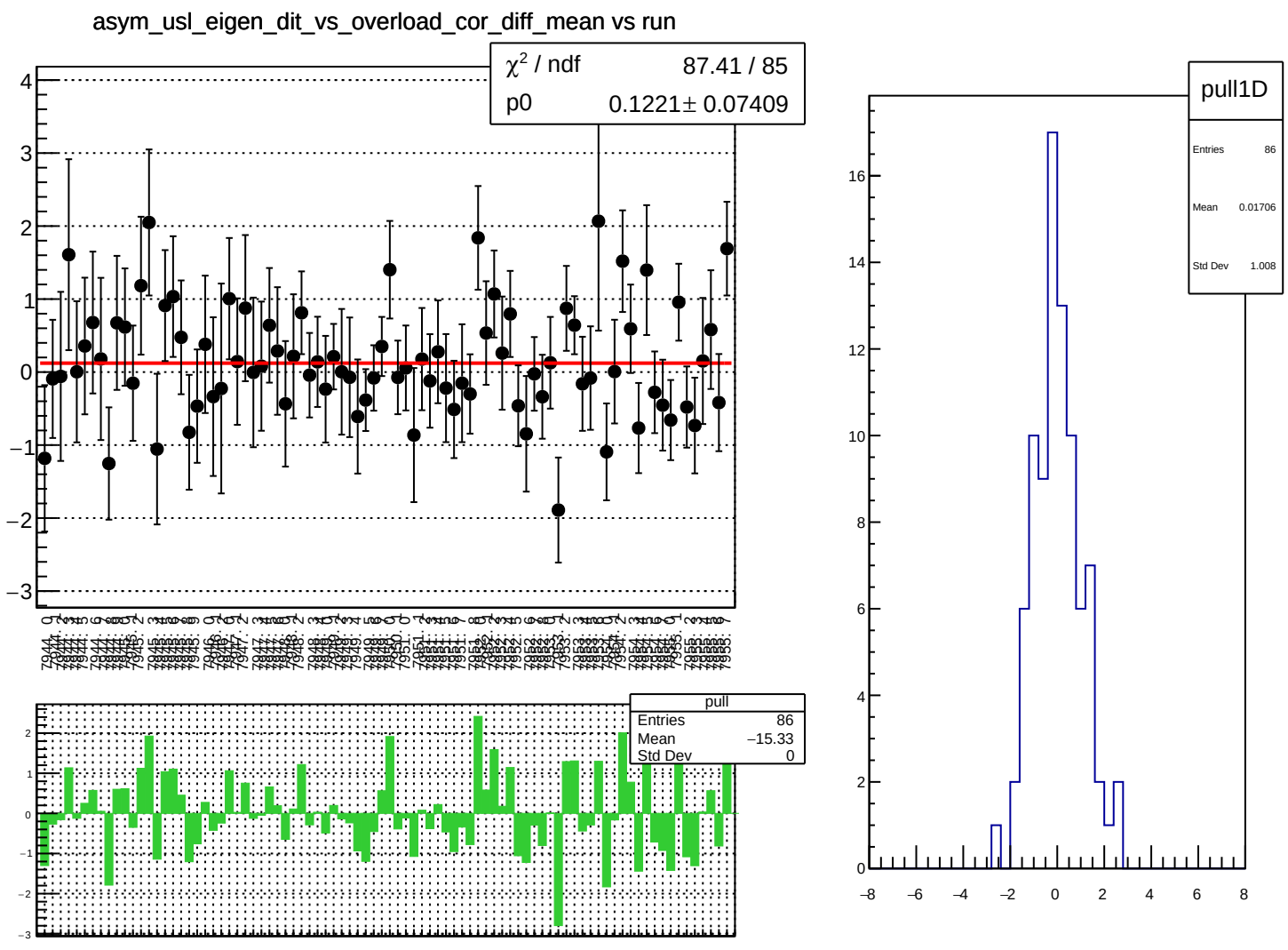

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.807e+05 / 85
p0 50.24 ± 0.04189
160
140
120
100
80
60
40
20

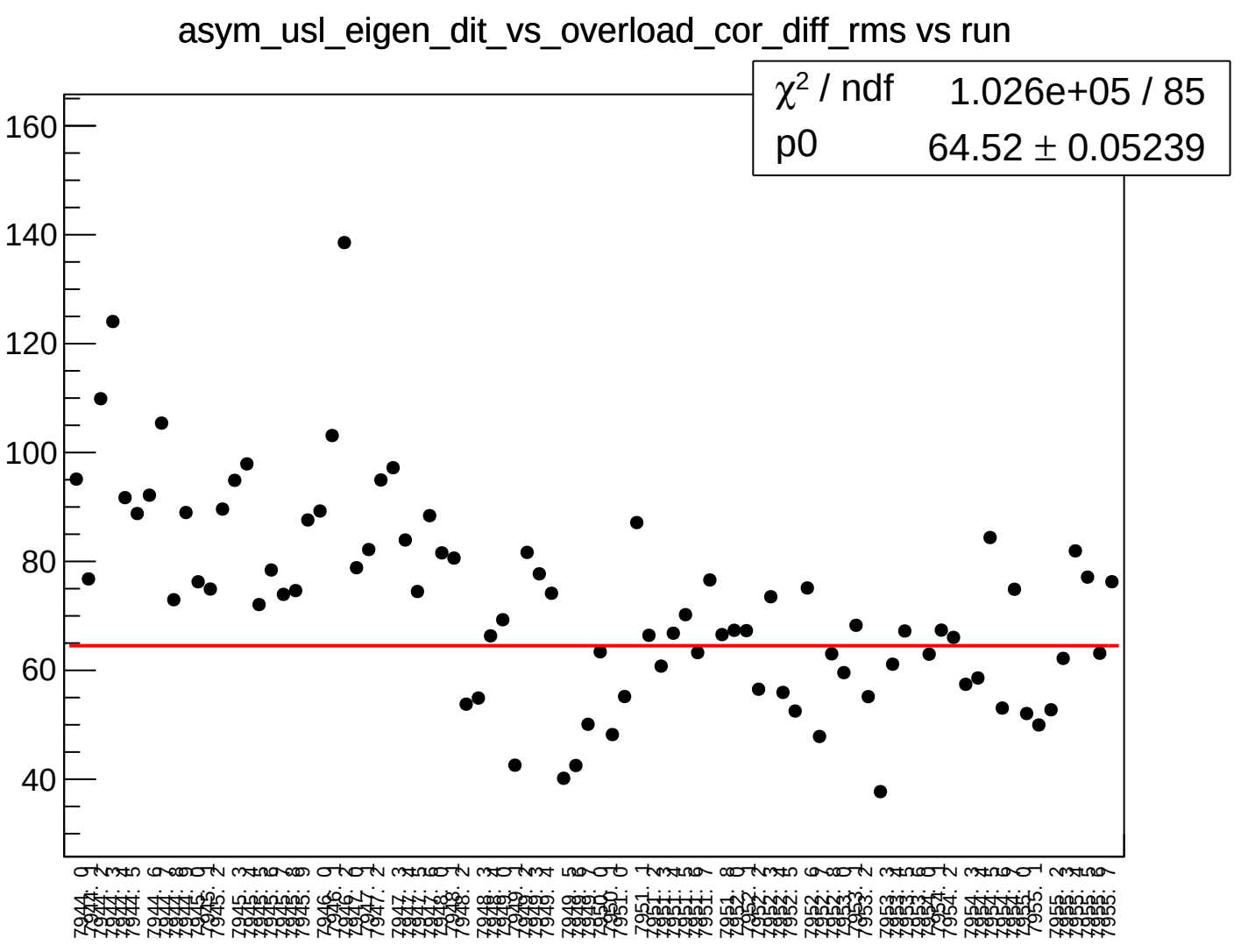
asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run

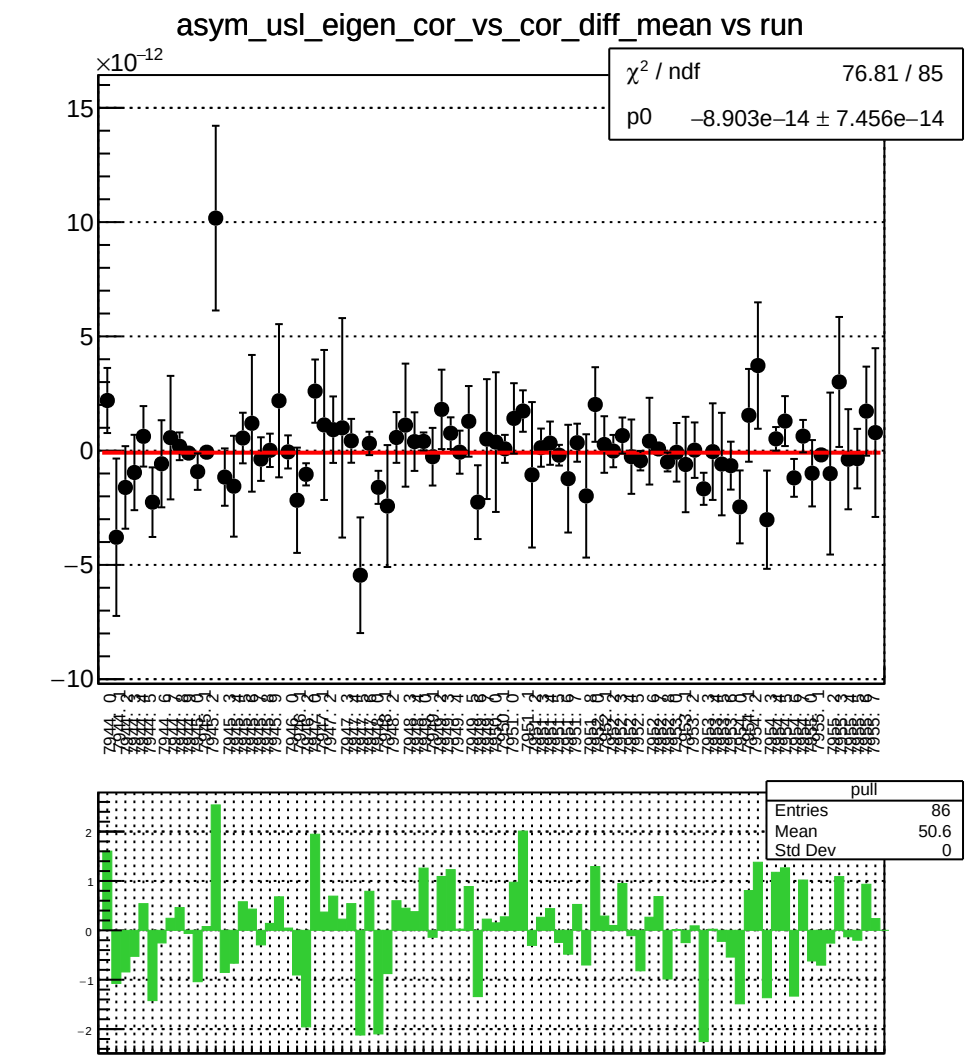


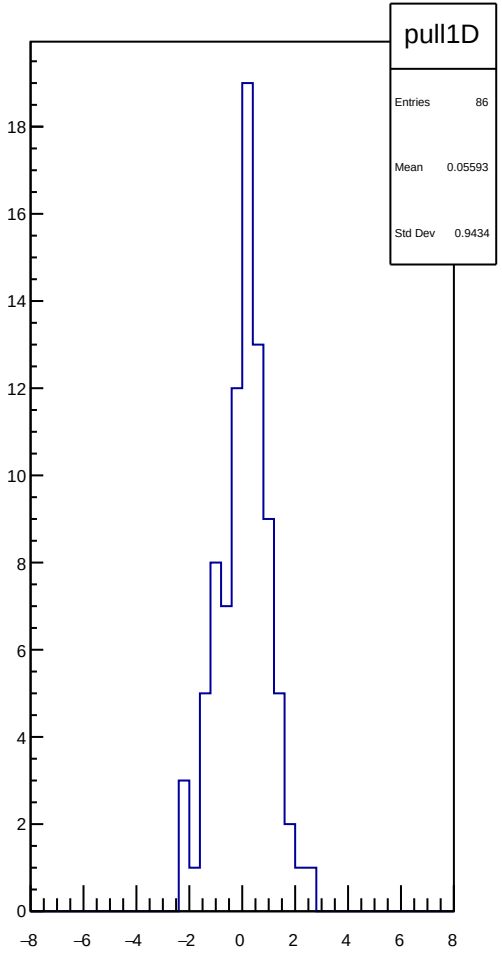


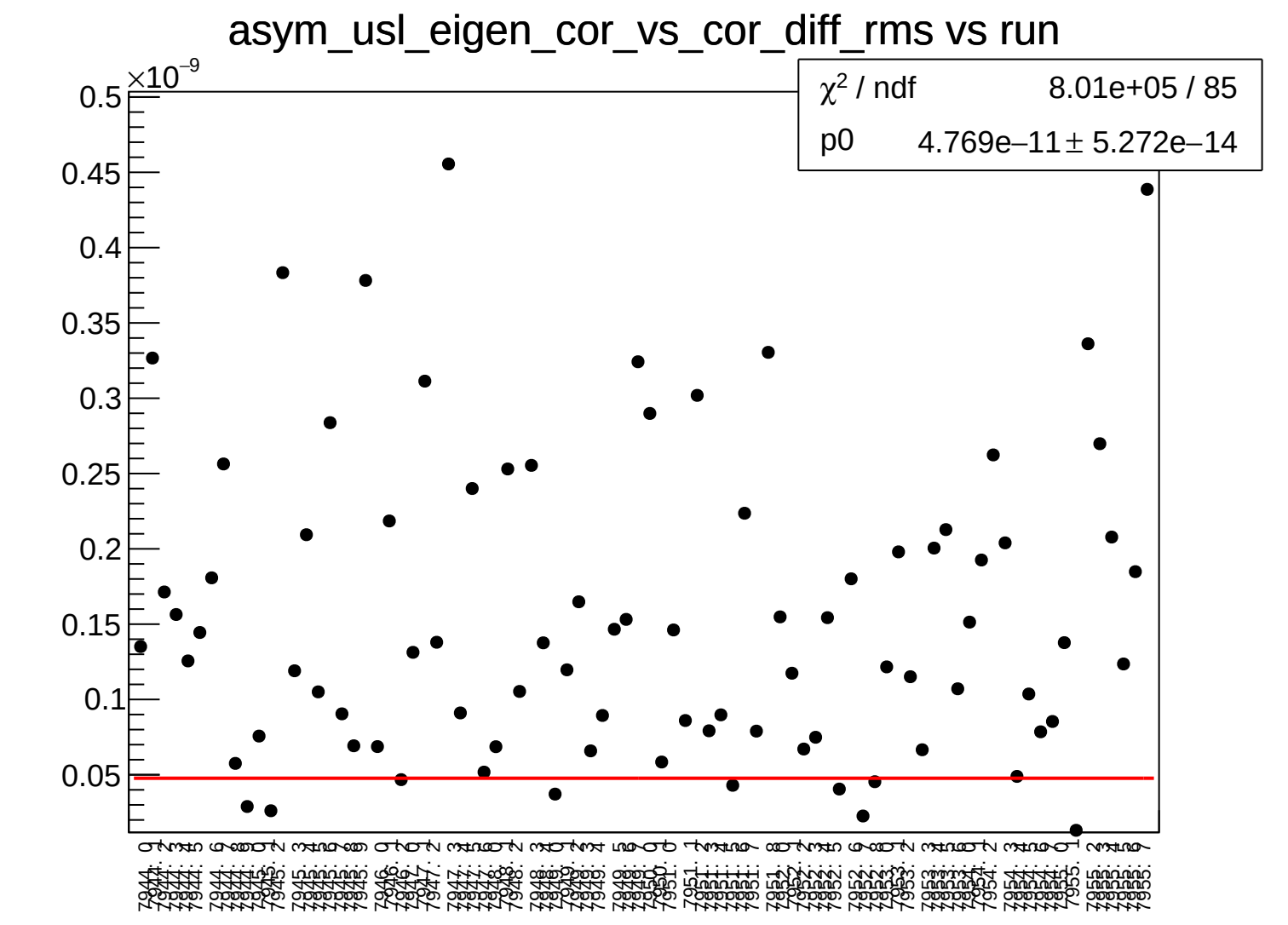

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.807e+05 / 85
p0 50.24 ± 0.04189
160
140
120
100
80
60
40
20

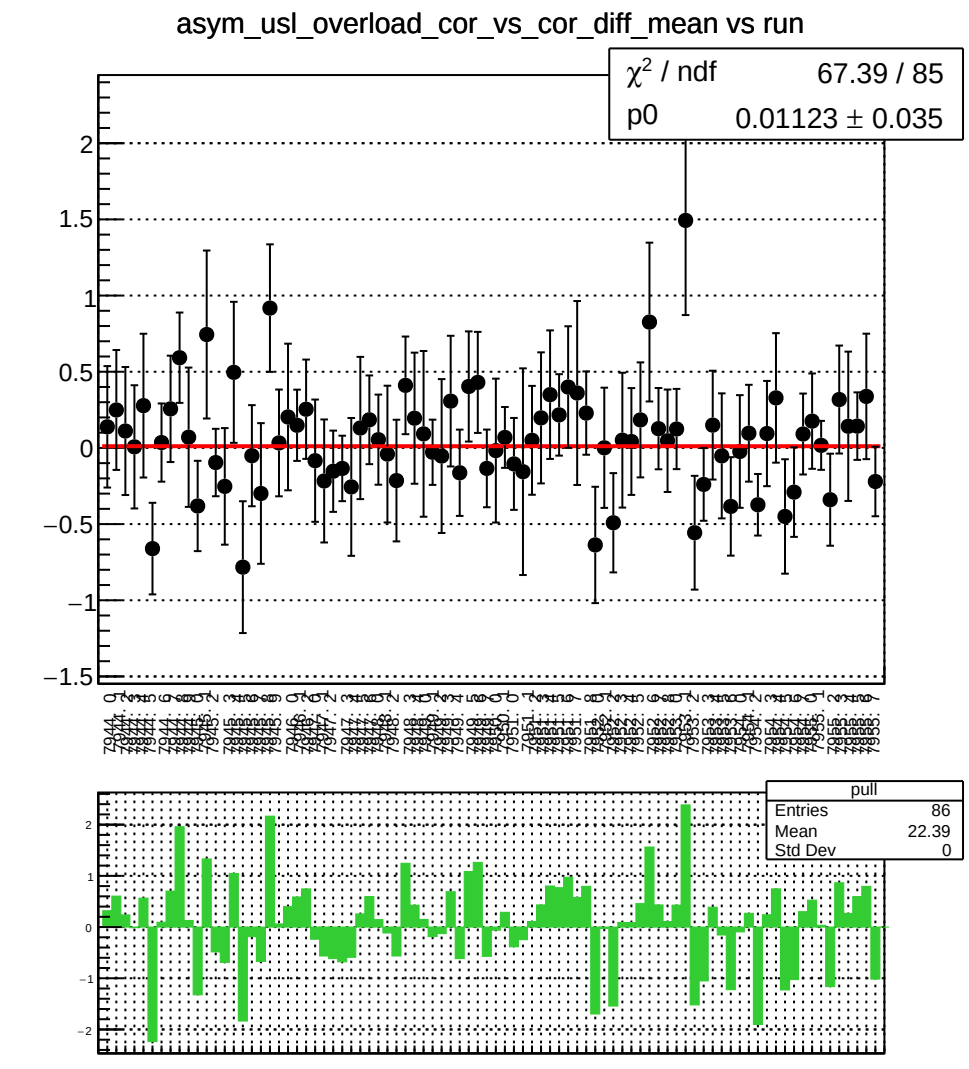

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.41 / 85
p0 0.1221± 0.07409
pull
Entries 86
Mean −15.33
Std Dev 0
pull1D
Entries 86
Mean 0.01706
Std Dev 1.008

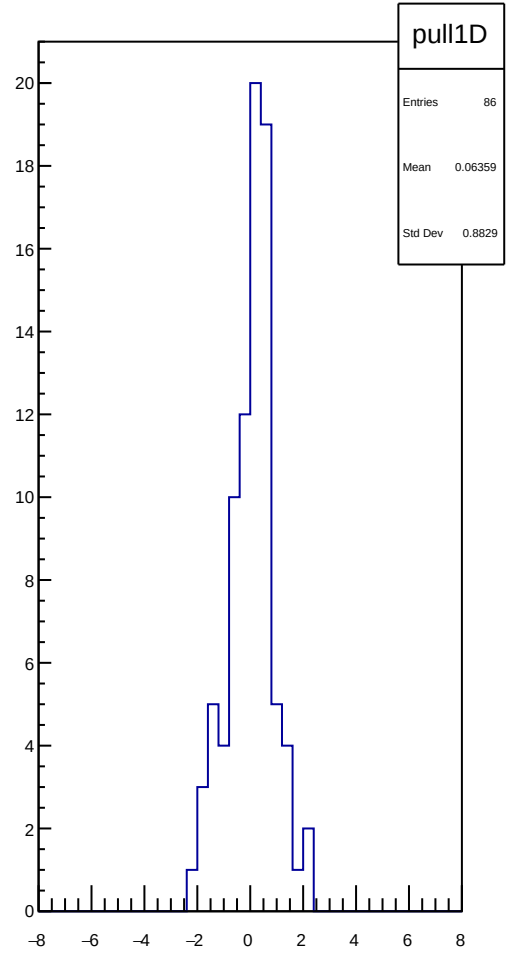

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.026e+05 / 85
p0 64.52 ± 0.05239
160
140
120
100
80
60
40

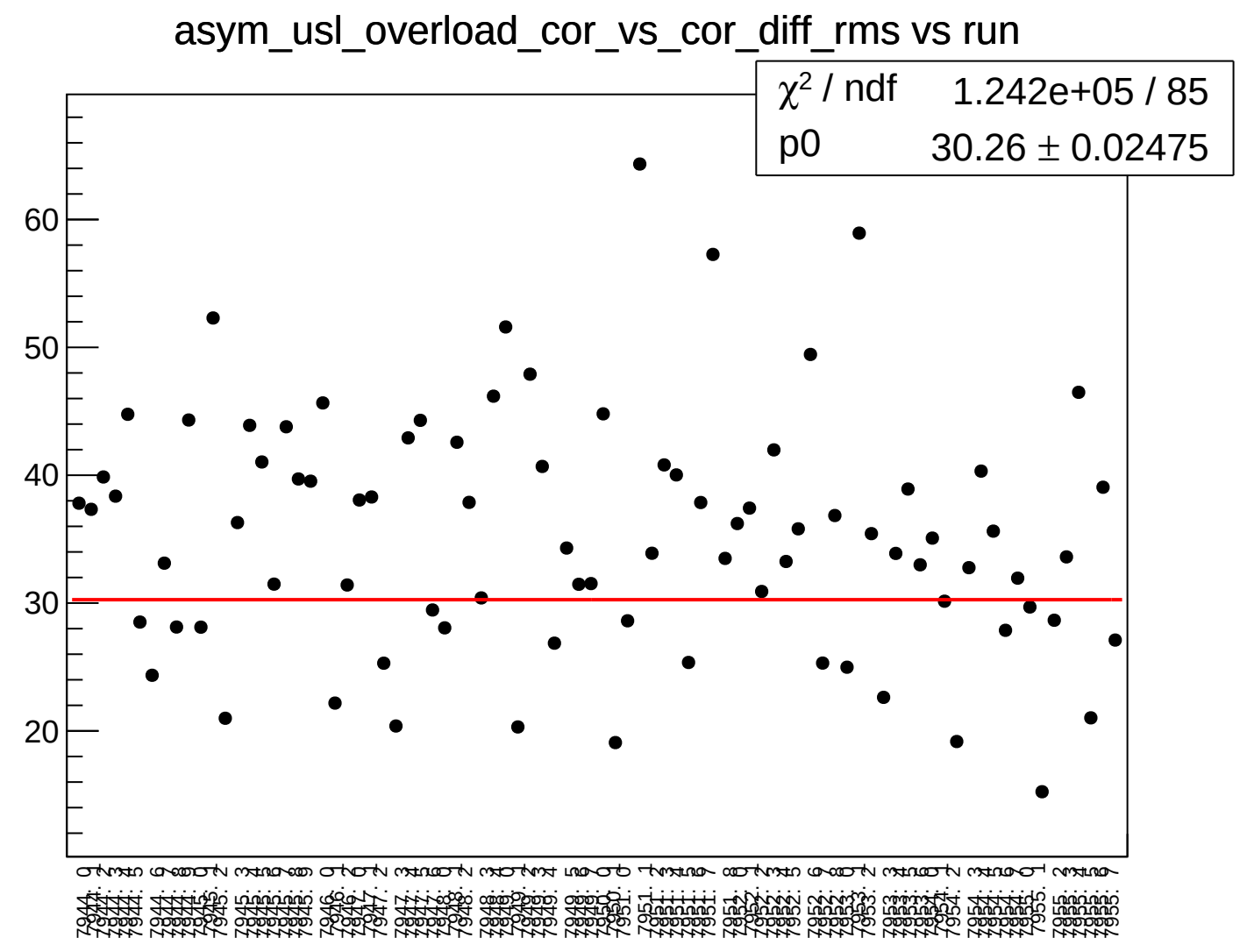

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.81 / 85
p0 −8.903e−14 ± 7.456e−14
pull
Entries 86
Mean 50.6
Std Dev 0

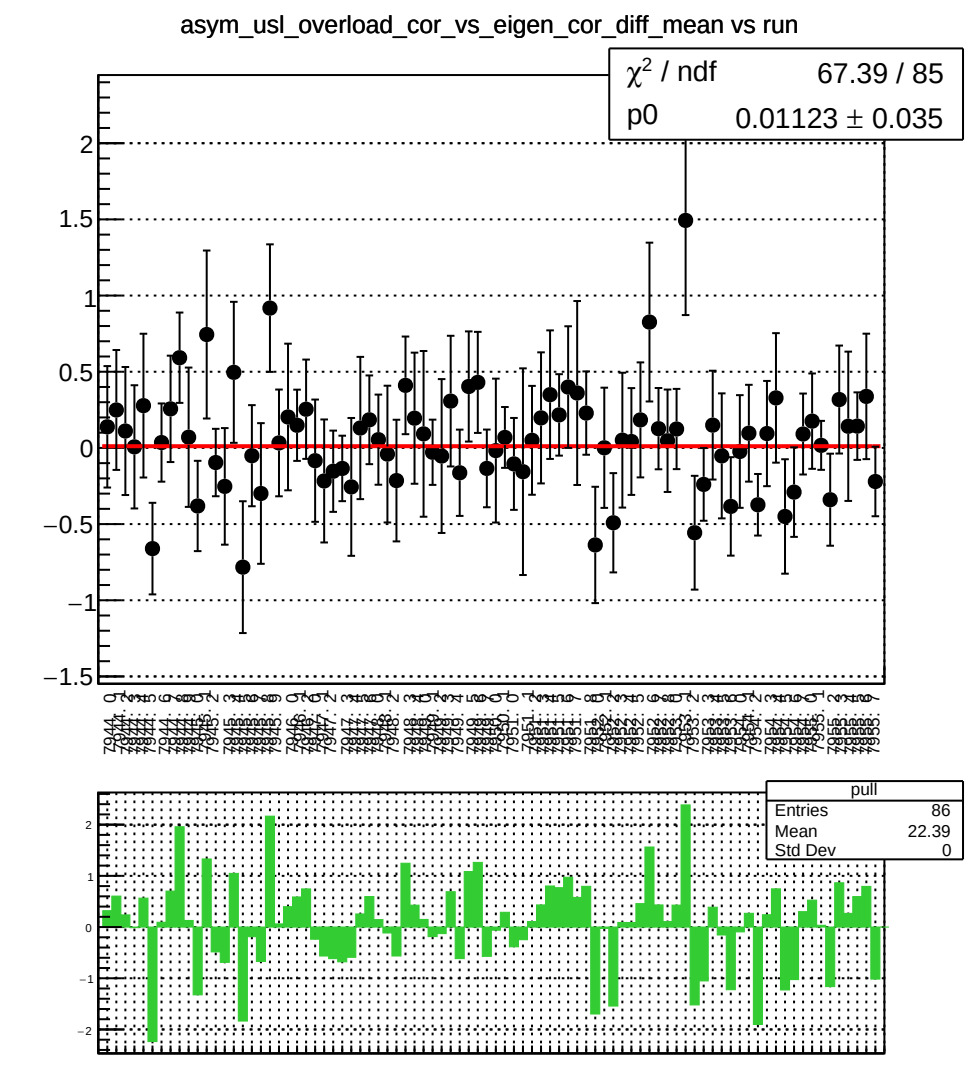

pull1D
Entries 86
Mean 0.05593
Std Dev 0.9434

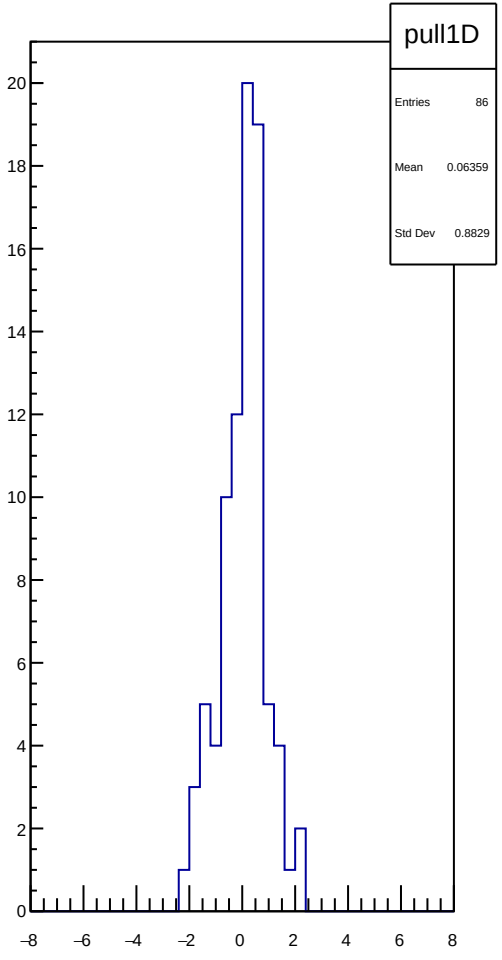

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 8.01e+05 / 85
p0 4.769e−11 ± 5.272e−14

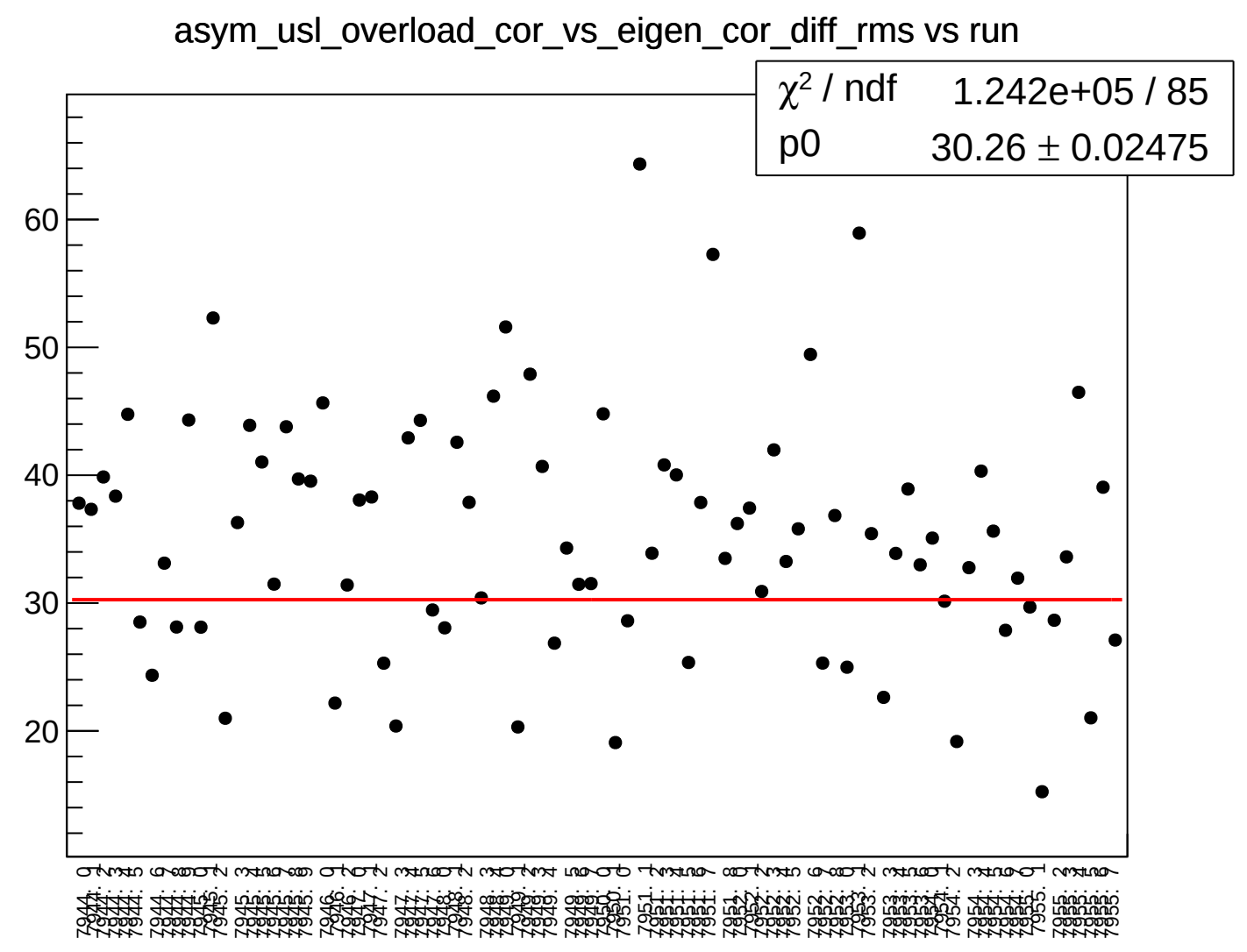

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 67.39 / 85
p0 0.01123 ± 0.035
pull
Entries 86
Mean 22.39
Std Dev 0

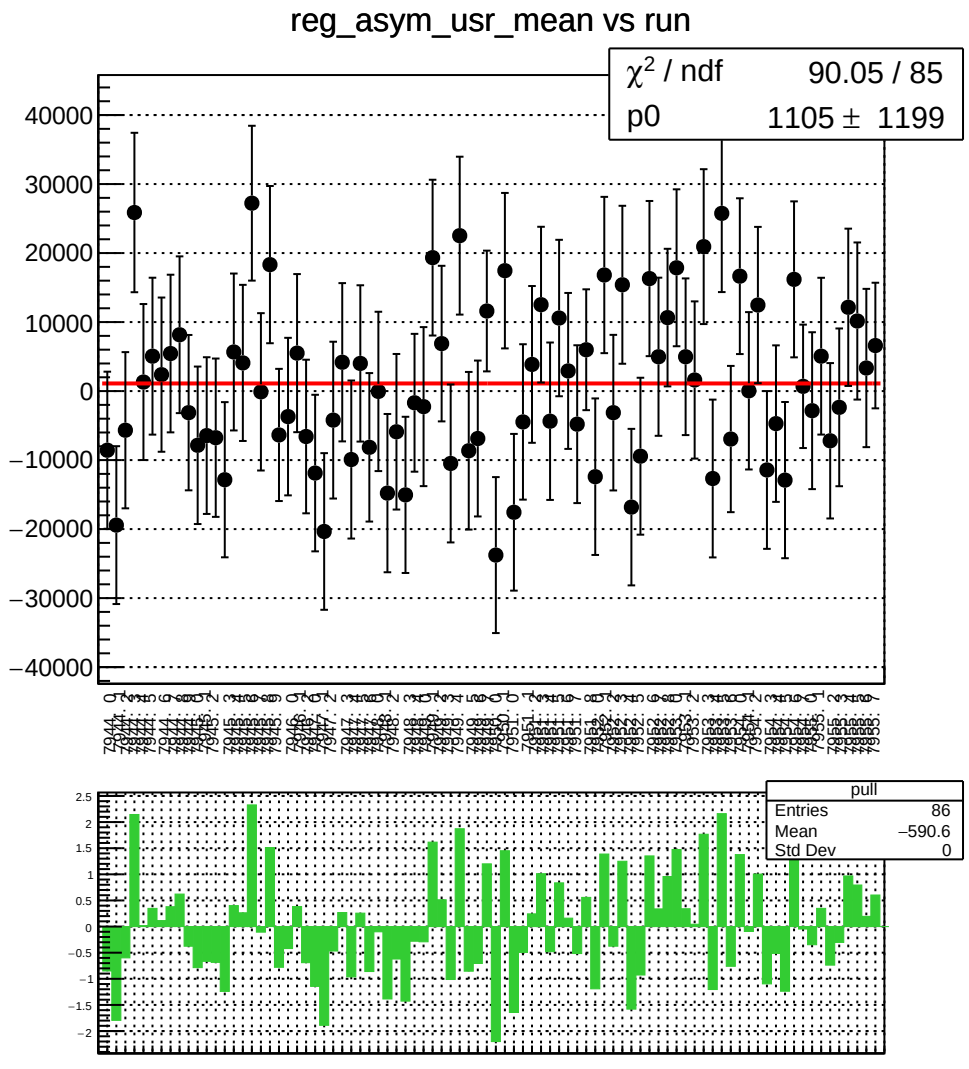

pull1D
Entries 86
Mean 0.06359
Std Dev 0.8829

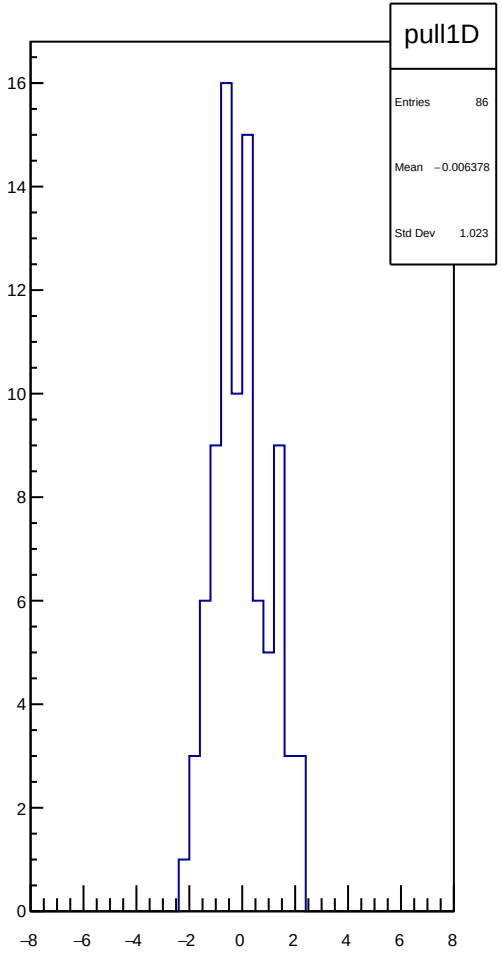

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.242e+05 / 85
p0 30.26 ± 0.02475
60
50
40
30
20

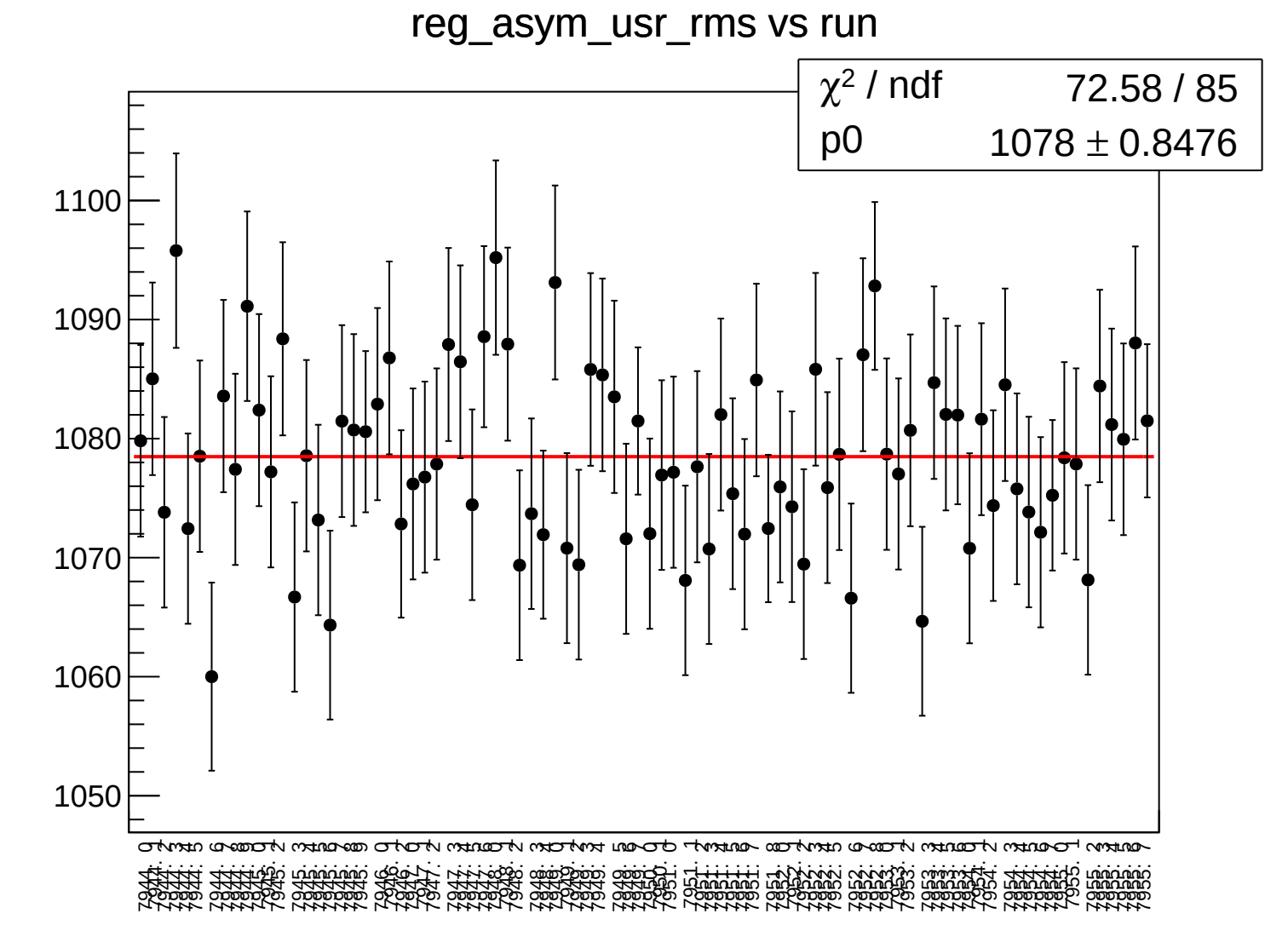

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.39 / 85
p0 0.01123 ± 0.035
pull
Entries 86
Mean 22.39
Std Dev 0

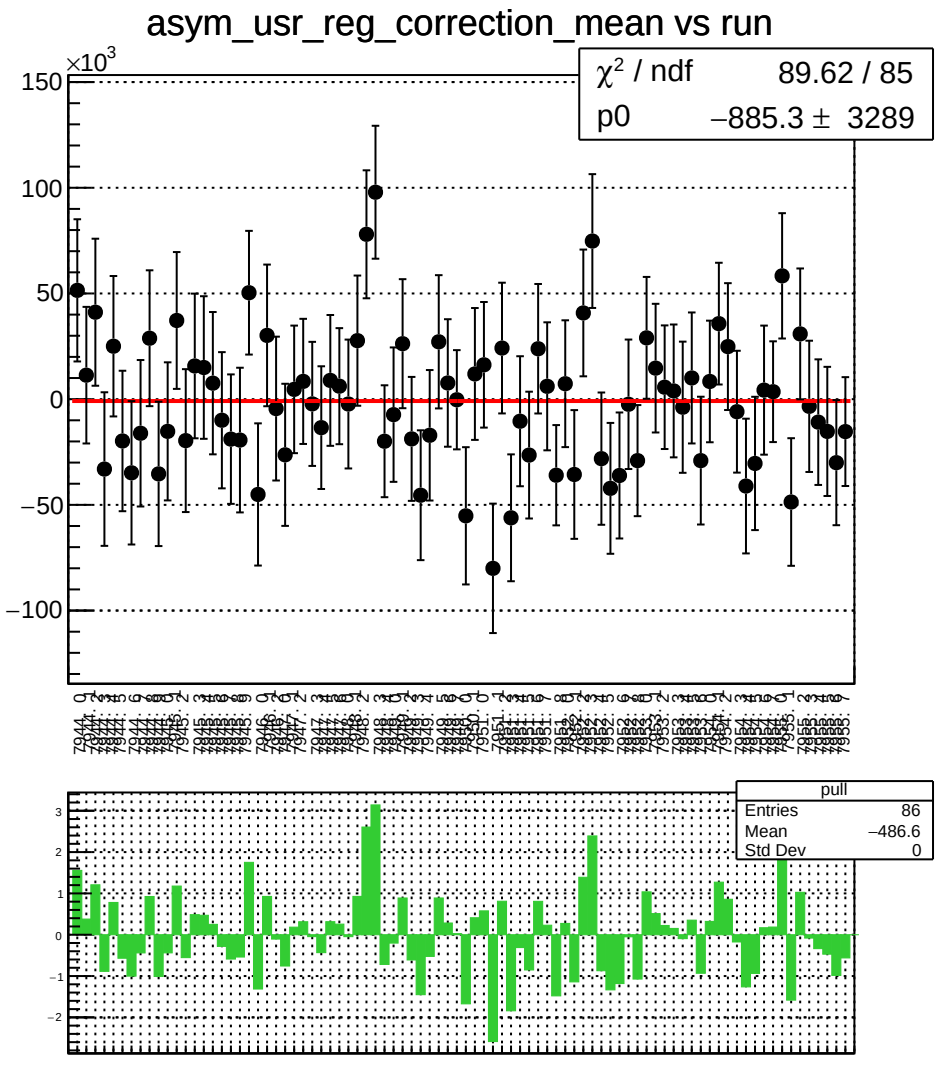

pull1D
Entries 86
Mean 0.06359
Std Dev 0.8829

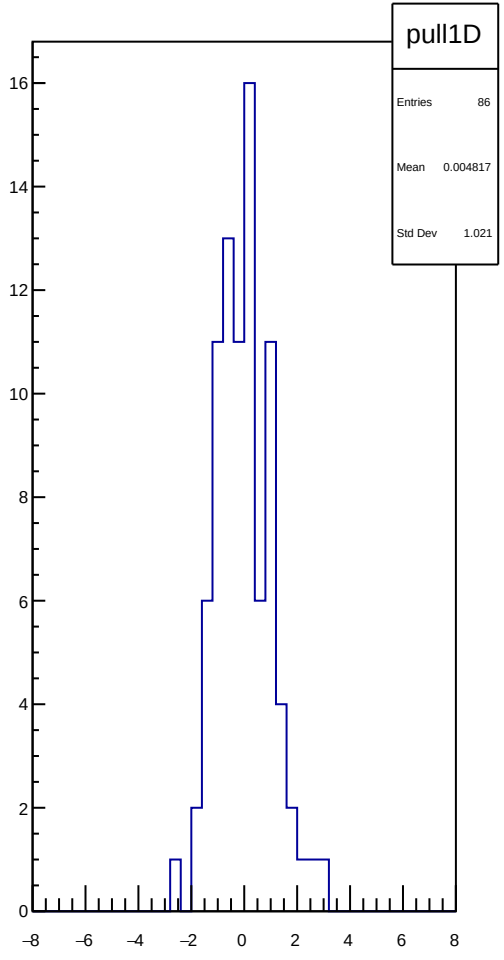

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.242e+05 / 85
p0 30.26 ± 0.02475
60
50
40
30
20

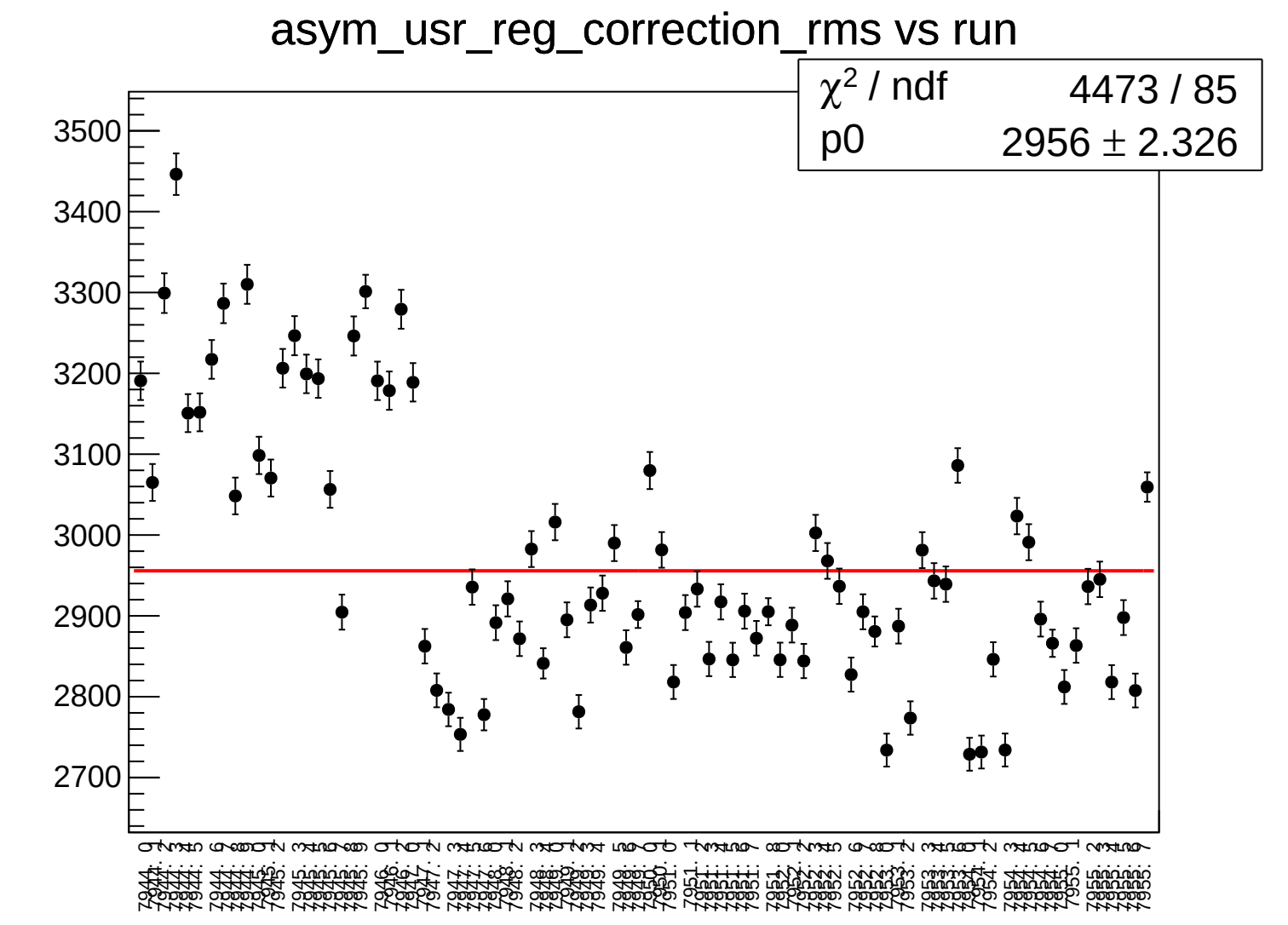

reg_asym_usr_mean vs run
χ² / ndf 90.05 / 85
p0 1105 ± 1199
pull
Entries 86
Mean −590.6
Std Dev 0

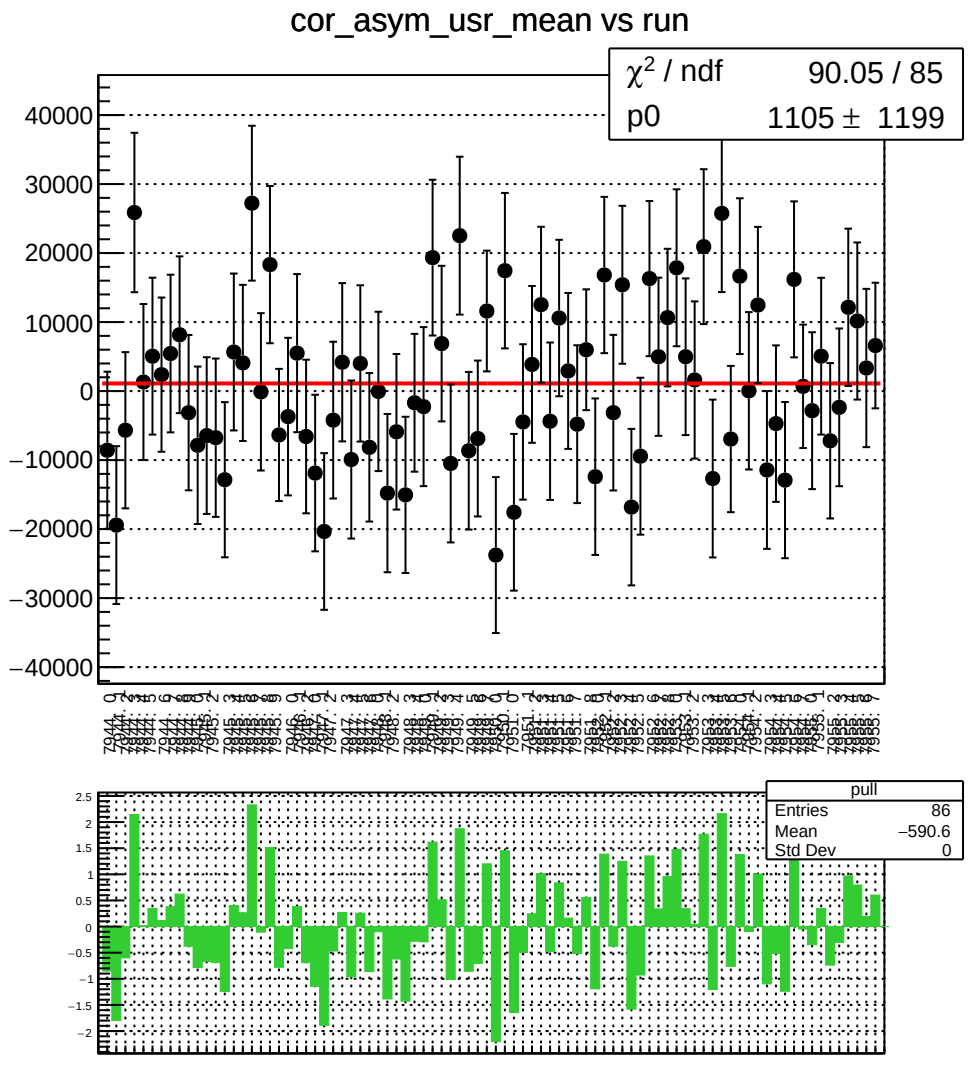

pull1D
Entries 86
Mean −0.006378
Std Dev 1.023

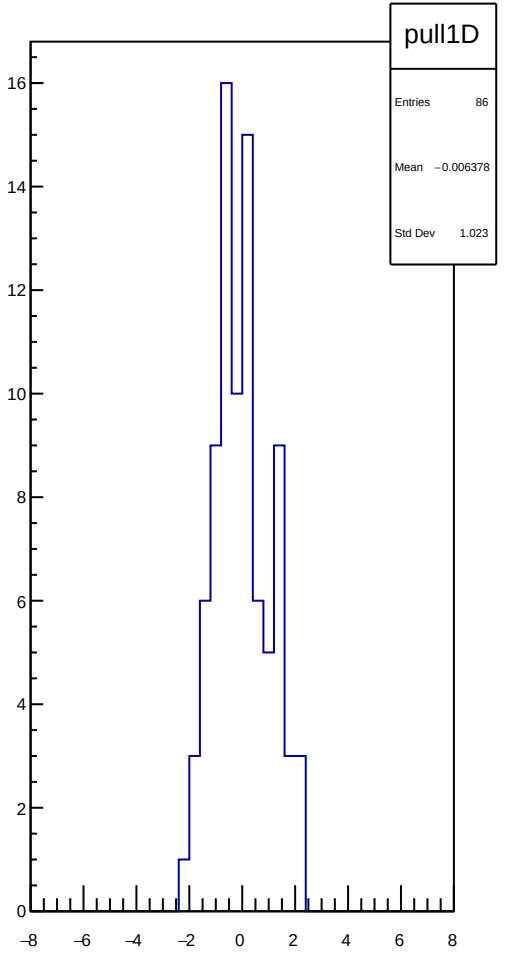

reg_asym_usr_rms vs run
χ² / ndf 72.58 / 85
p0 1078 ± 0.8476
1100
1090
1080
1070
1060
1050

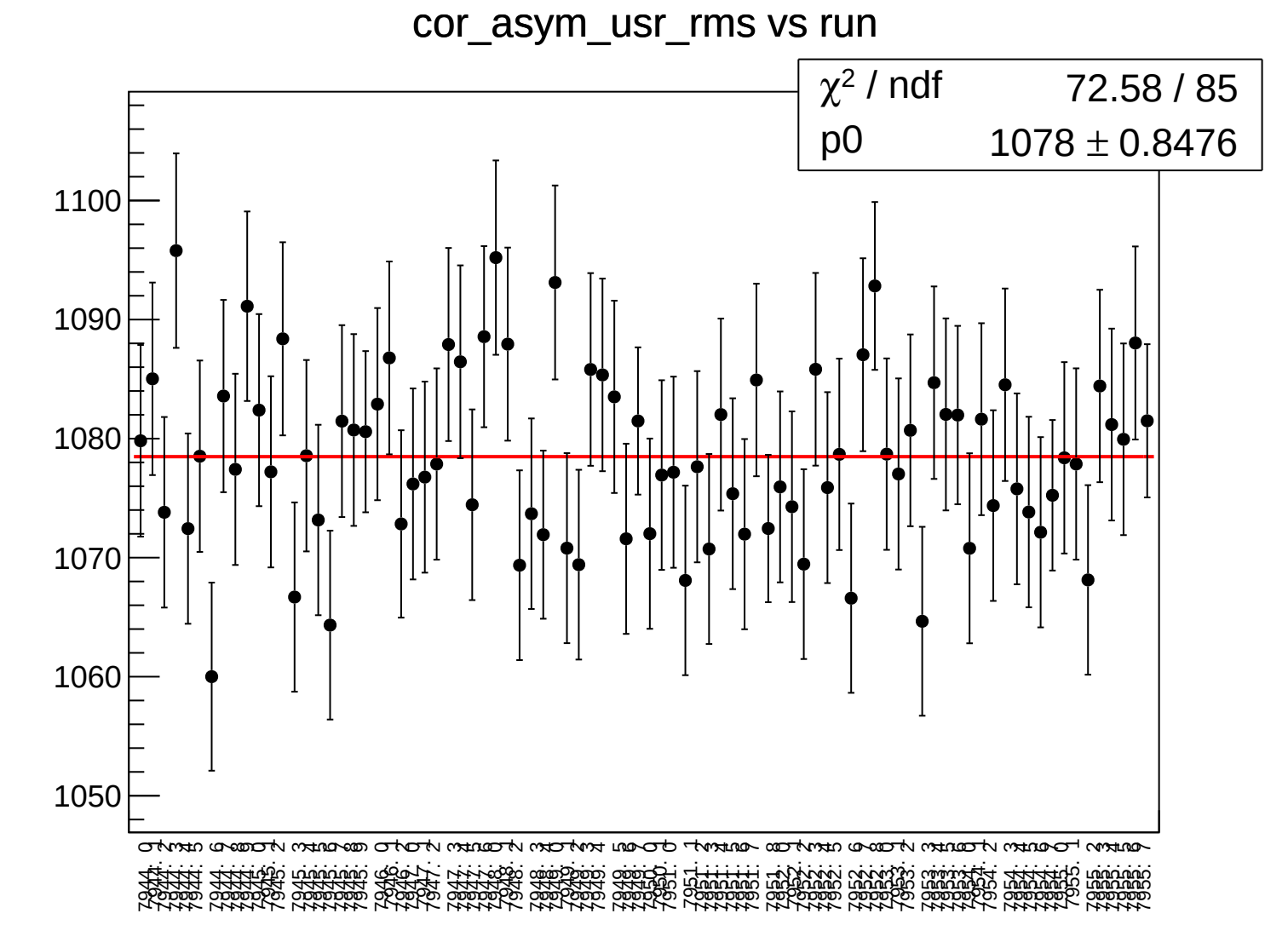

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 89.62 / 85
p0 −885.3 ± 3289
150
100
50
0
−50
−100
pull
Entries 86
Mean −486.6
Std Dev 0
3
2
1
0
−1
−2

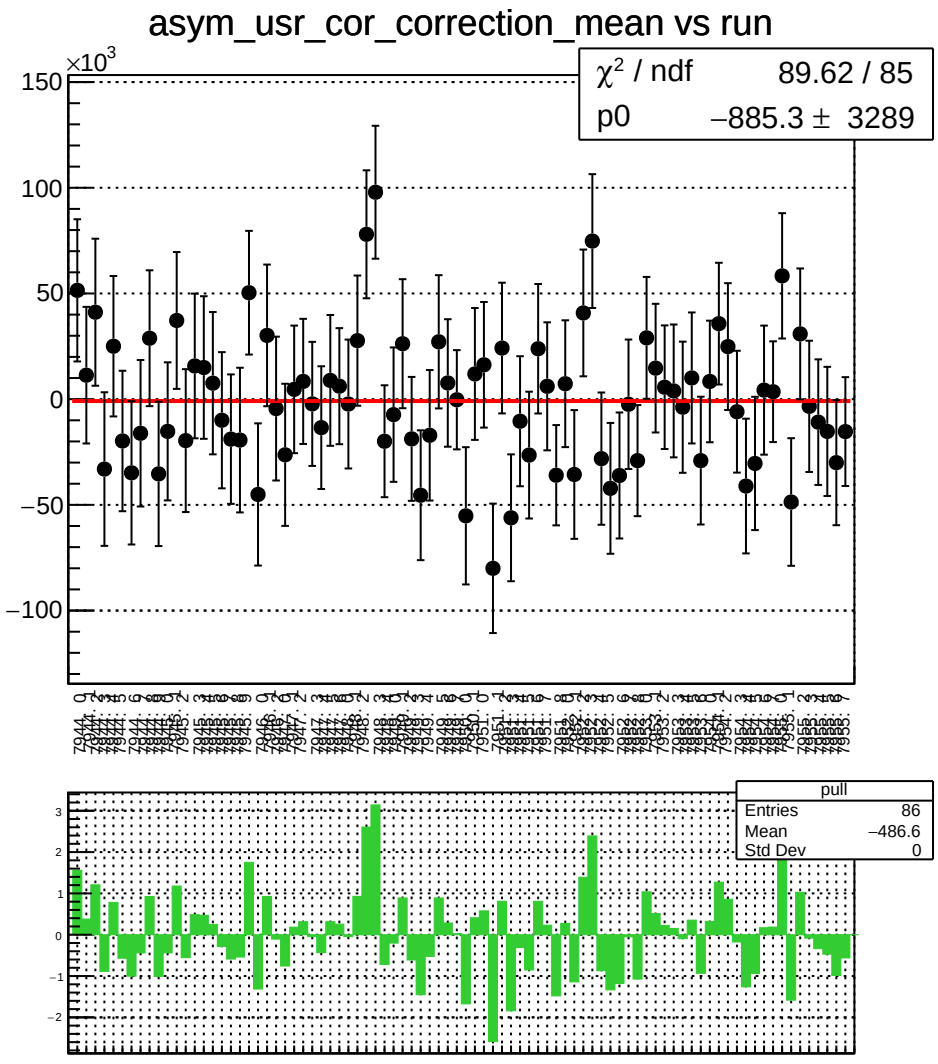

pull1D
Entries 86
Mean 0.004817
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

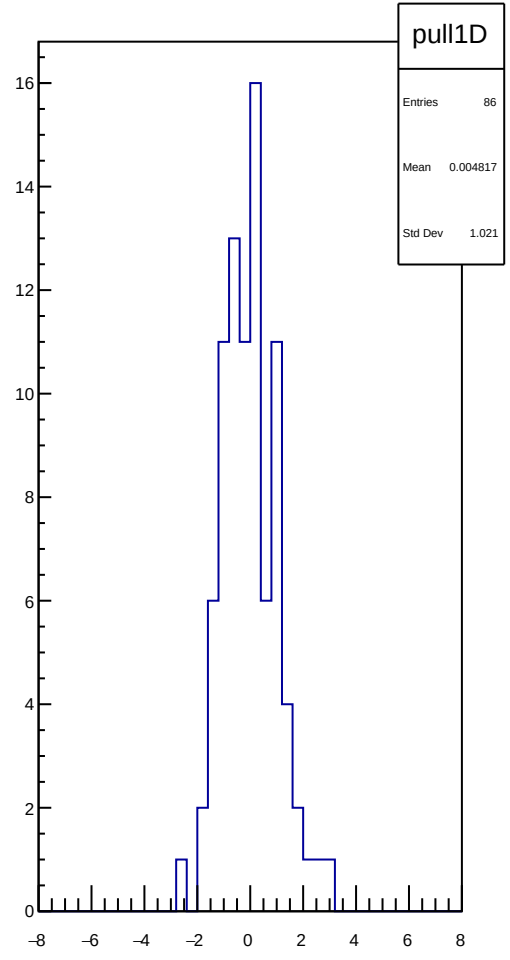

asym_usr_reg_correction_rms vs run
χ² / ndf 4473 / 85
p0 2956 ± 2.326
3500
3400
3300
3200
3100
3000
2900
2800
2700

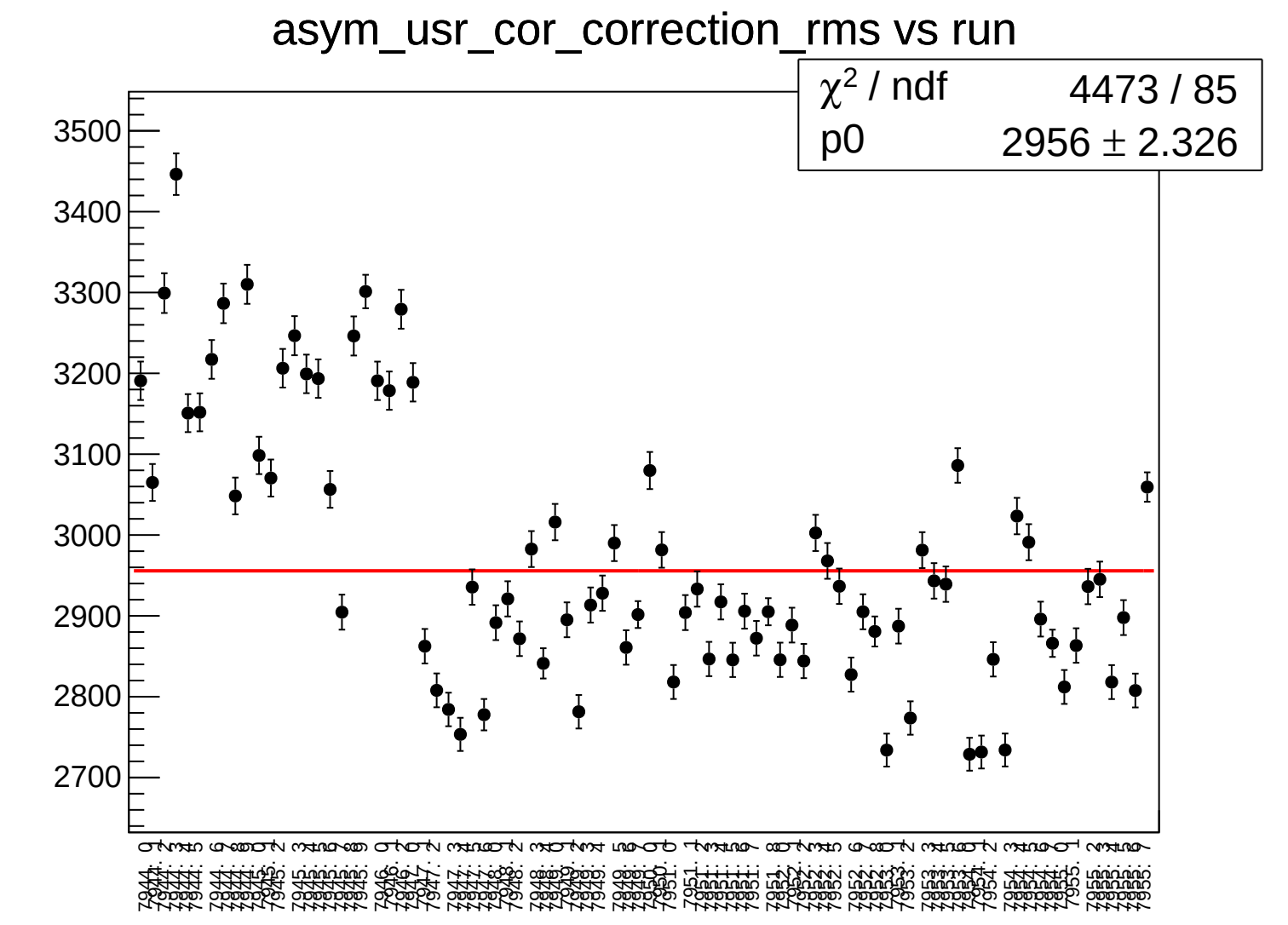

cor_asym_usr_mean vs run
χ² / ndf 90.05 / 85
p0 1105 ± 1199
pull
Entries 86
Mean −590.6
Std Dev 0

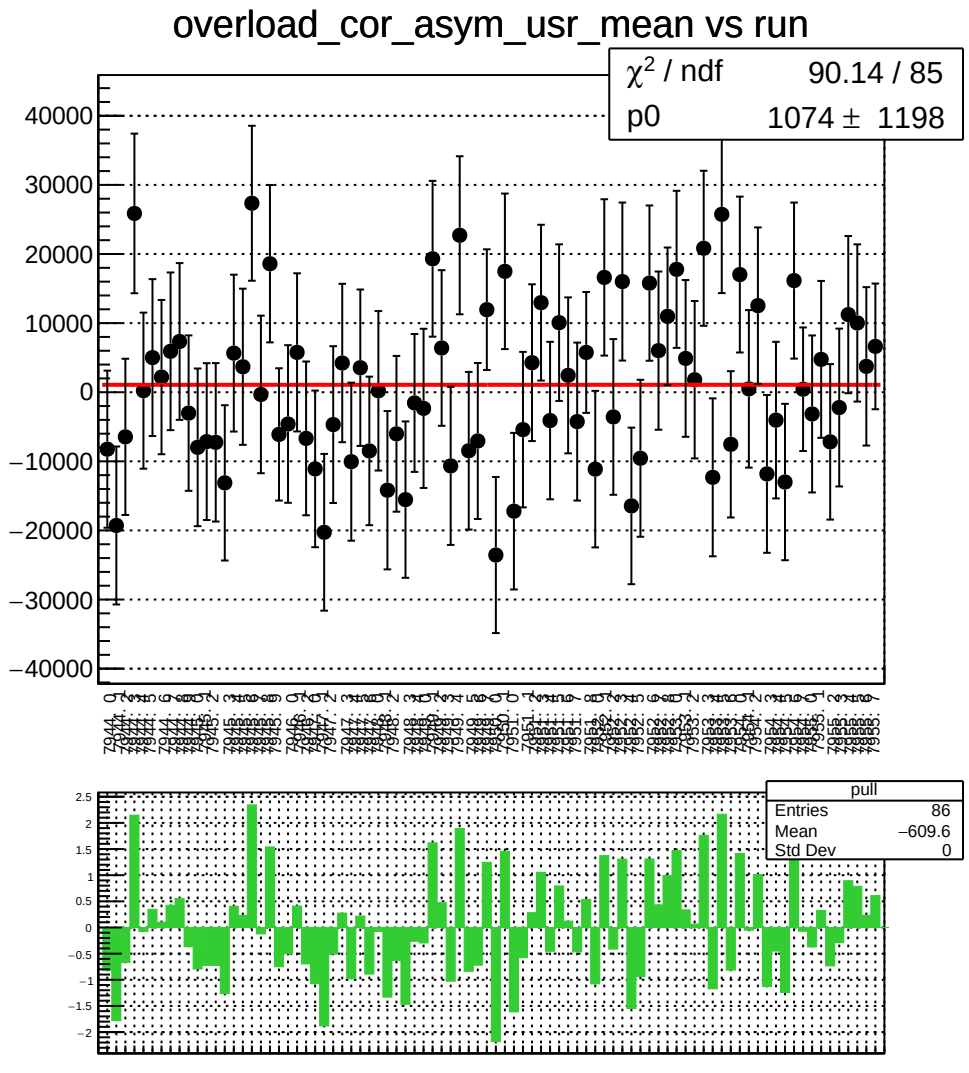

pull1D
Entries 86
Mean −0.006378
Std Dev 1.023

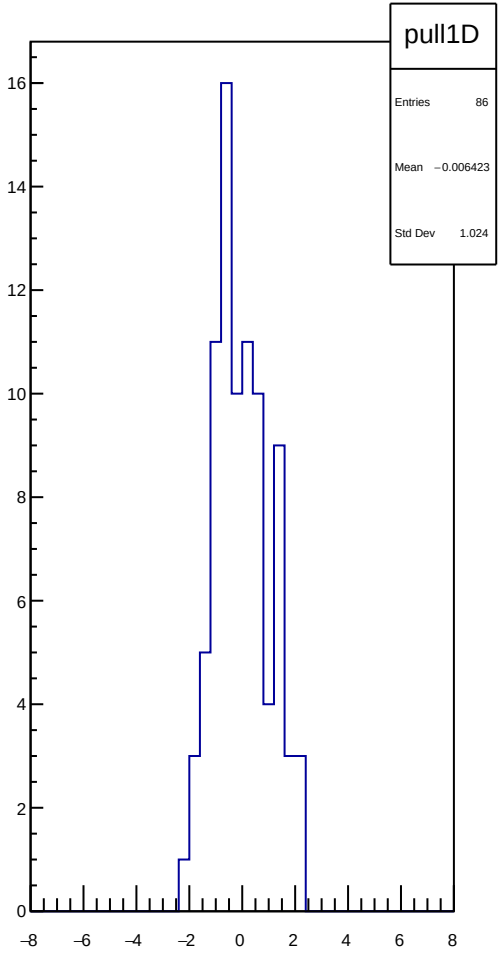

cor_asym_usr_rms vs run
χ² / ndf 72.58 / 85
p0 1078 ± 0.8476
1100
1090
1080
1070
1060
1050

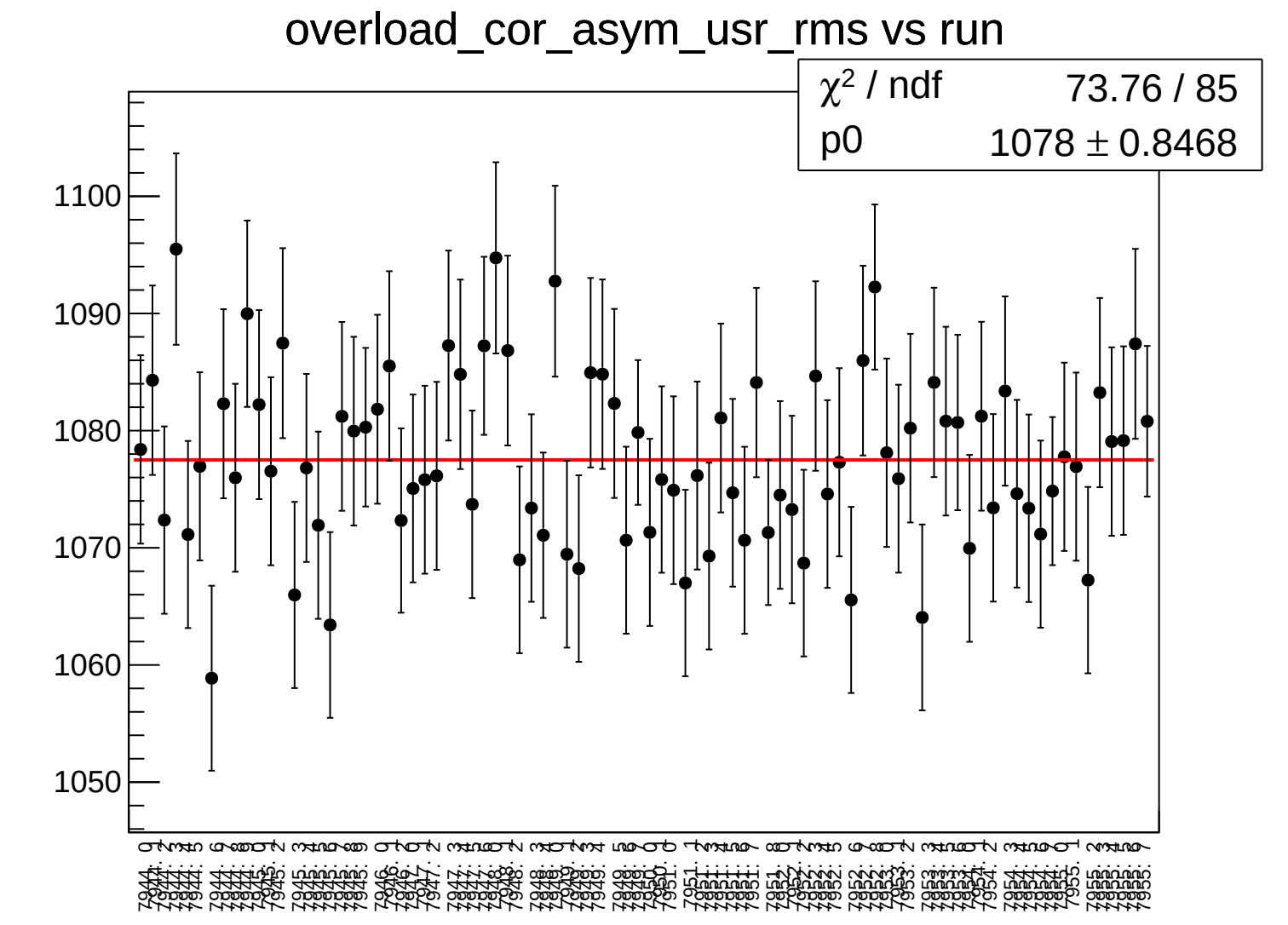

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 89.62 / 85
p0 −885.3 ± 3289
150
100
50
0
−50
−100
pull
Entries 86
Mean −486.6
Std Dev 0
3
2
1
0
−1
−2

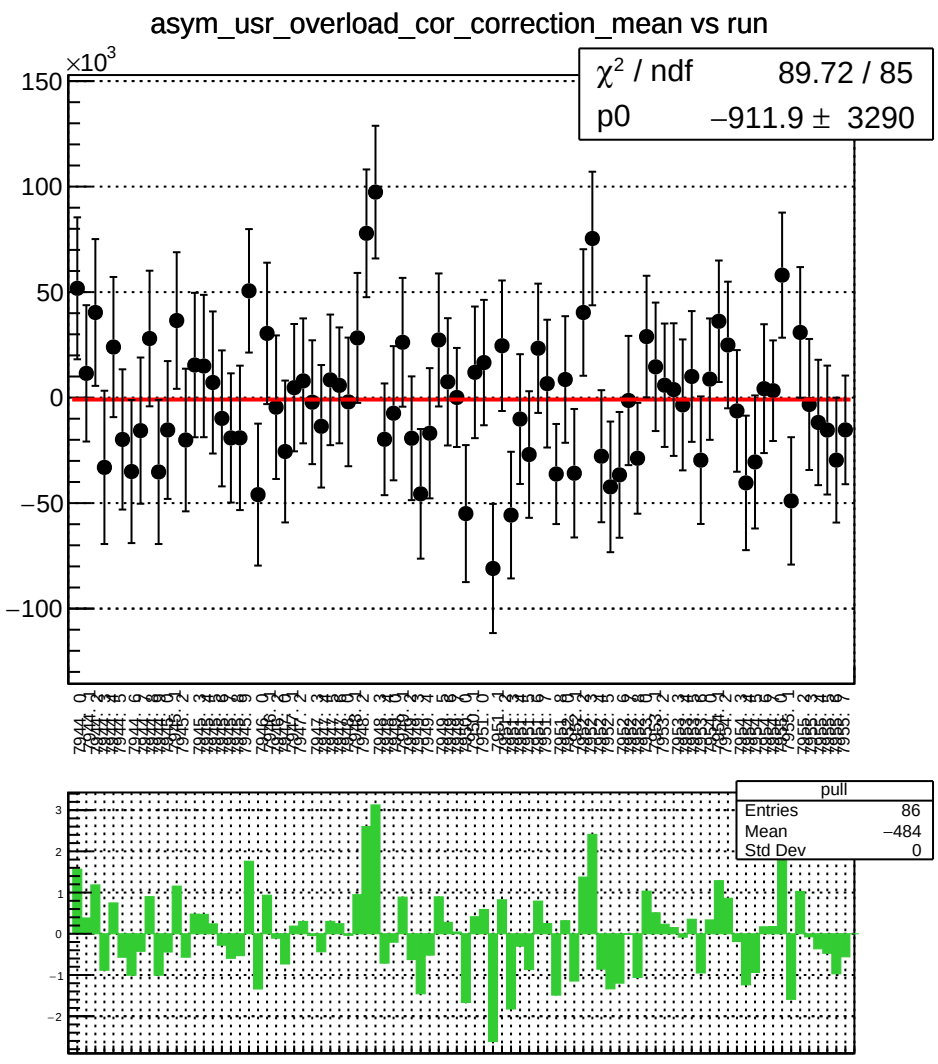

pull1D
Entries 86
Mean 0.004817
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

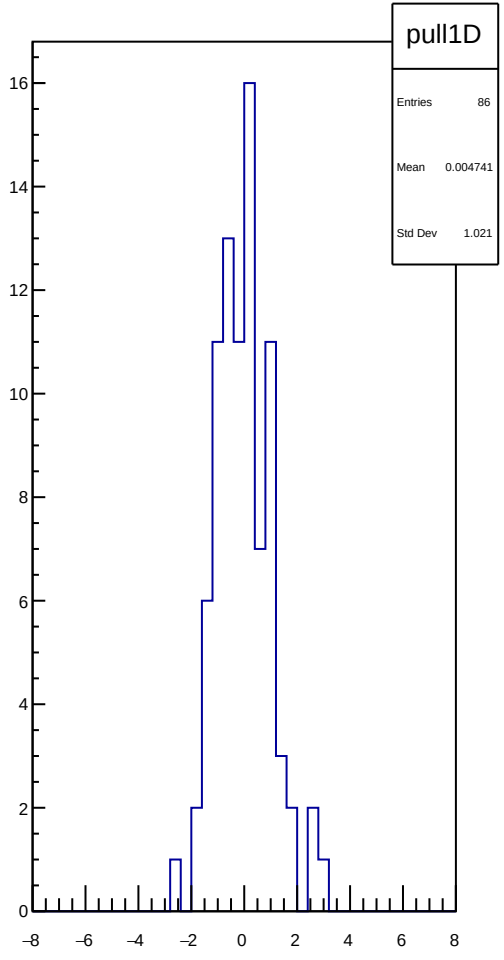

asym_usr_cor_correction_rms vs run
χ² / ndf 4473 / 85
p0 2956 ± 2.326
3500
3400
3300
3200
3100
3000
2900
2800
2700

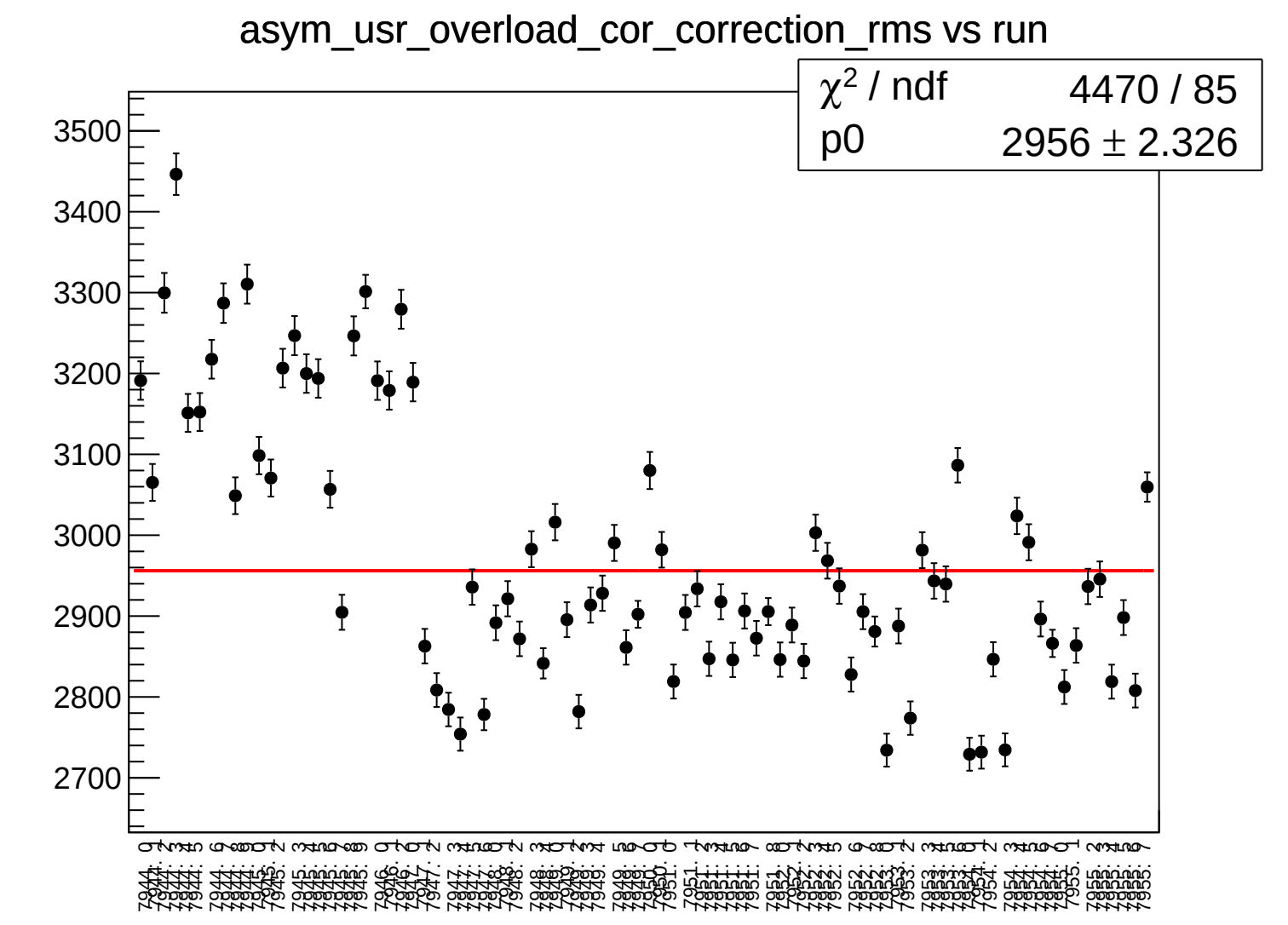

overload_cor_asym_usr_mean vs run
χ² / ndf 90.14 / 85
p0 1074 ± 1198
pull
Entries 86
Mean −609.6
Std Dev 0

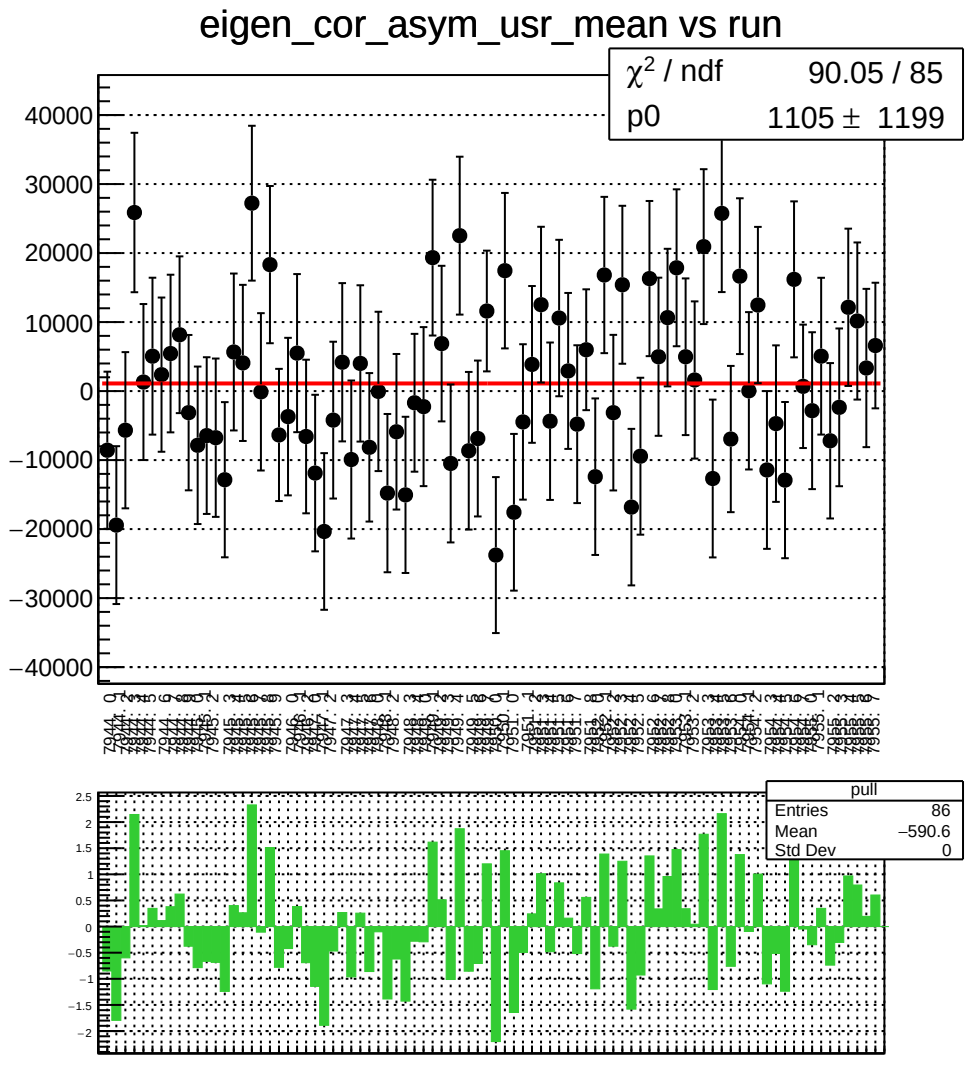

pull1D
Entries 86
Mean −0.006423
Std Dev 1.024

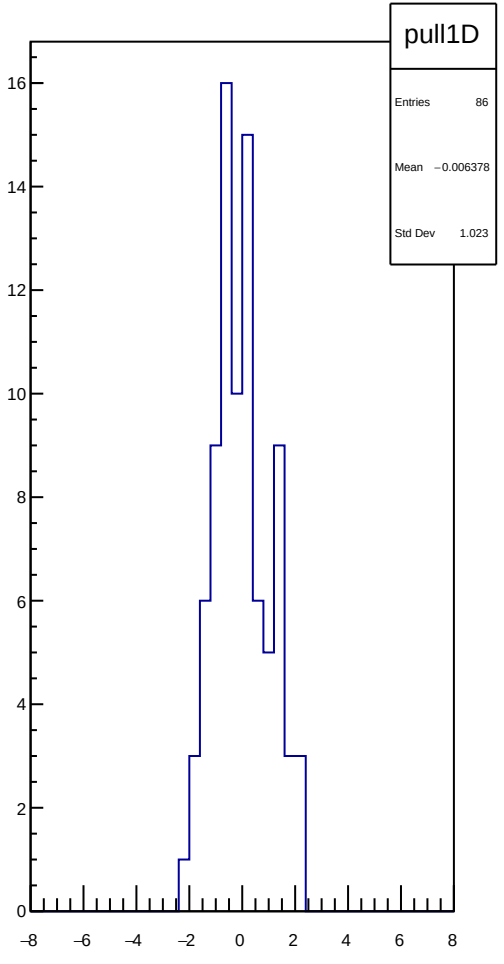

overload_cor_asym_usr_rms vs run
χ² / ndf 73.76 / 85
p0 1078 ± 0.8468
1100
1090
1080
1070
1060
1050

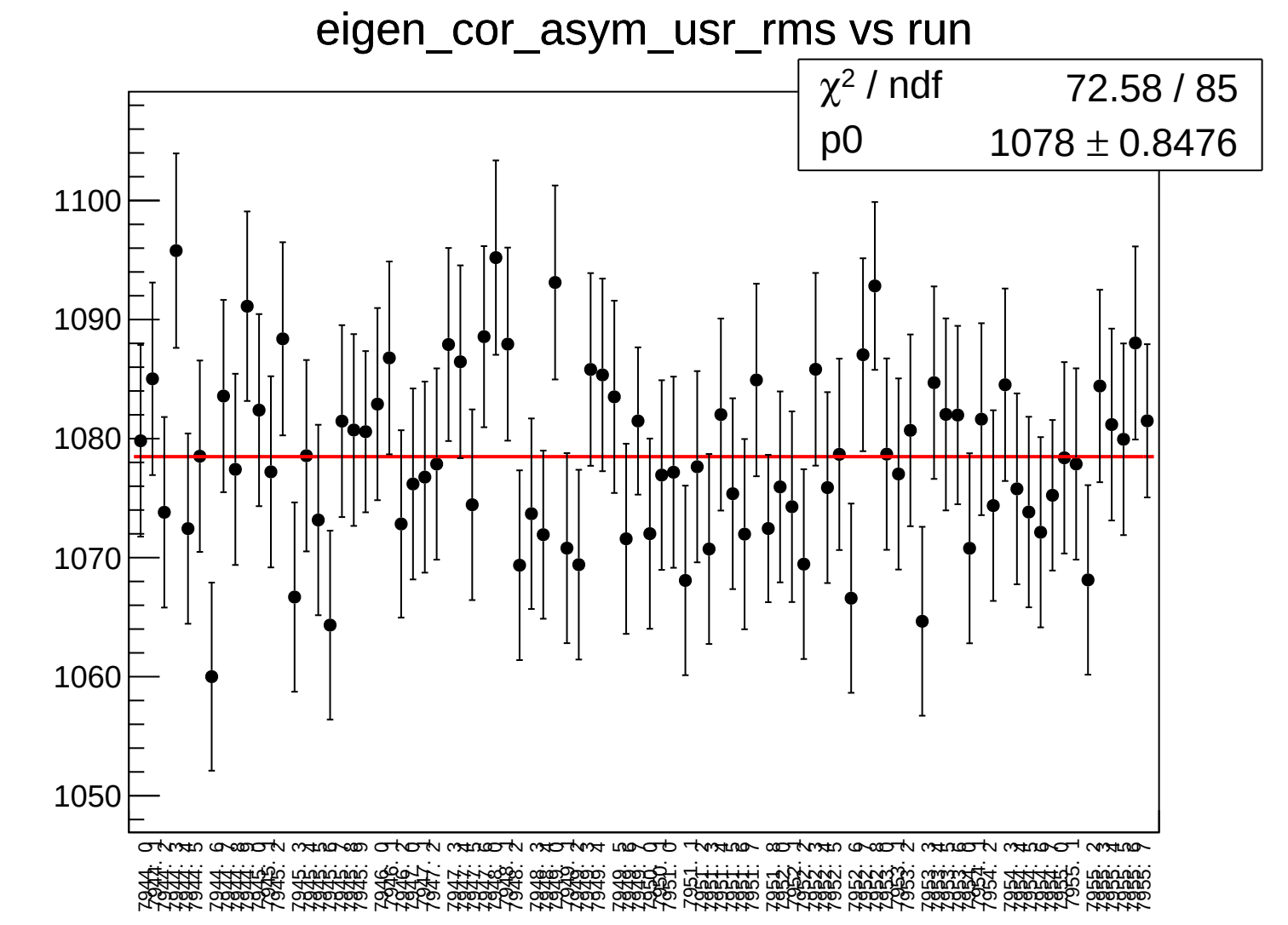

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 89.72 / 85
p0 −911.9 ± 3290
150
100
50
0
−50
−100
pull
Entries 86
Mean −484
Std Dev 0
3
2
1
0
−1
−2

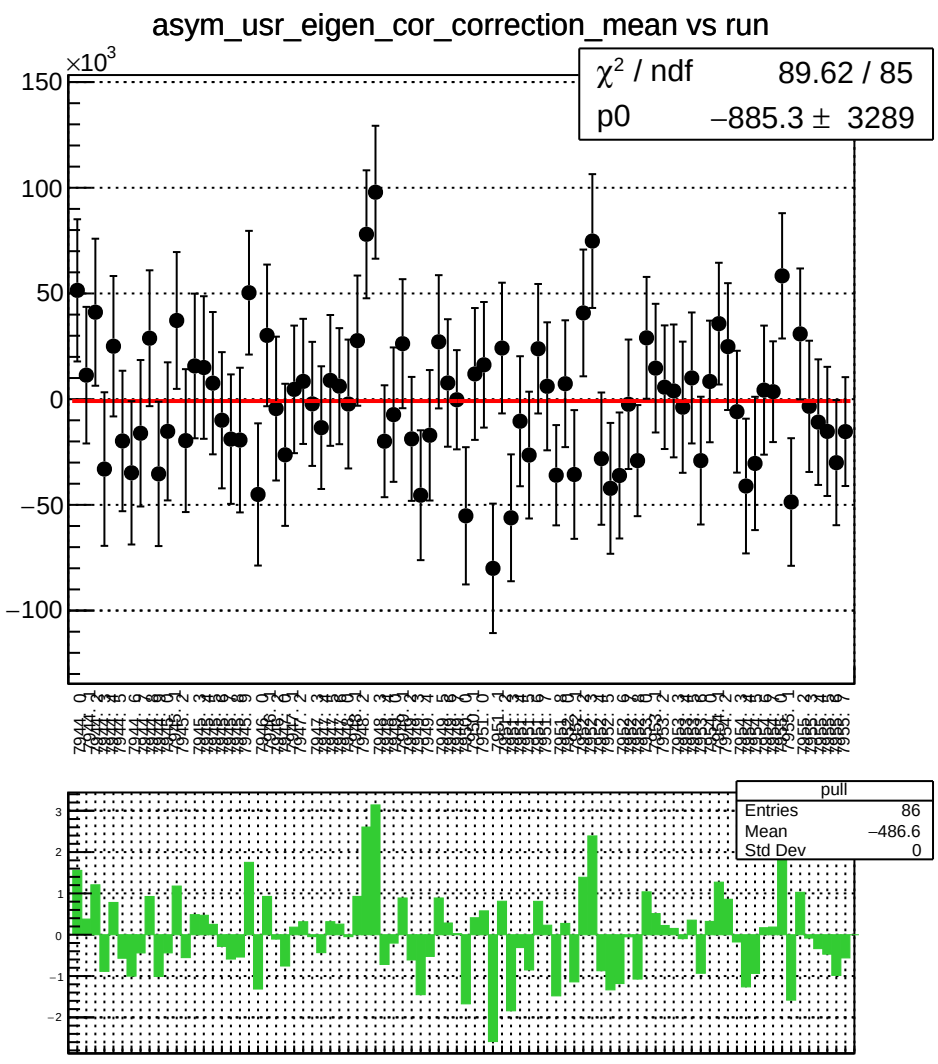

pull1D
Entries 86
Mean 0.004741
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

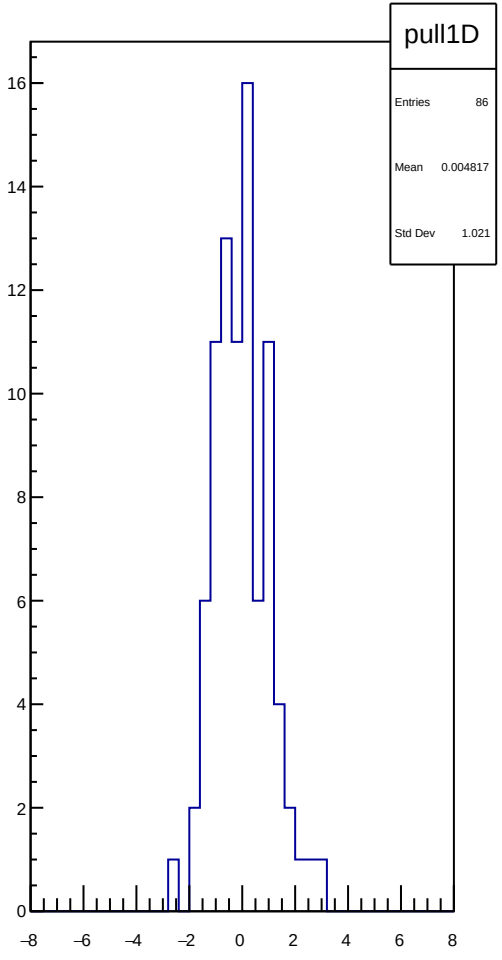

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 4470 / 85
p0 2956 ± 2.326
3500
3400
3300
3200
3100
3000
2900
2800
2700

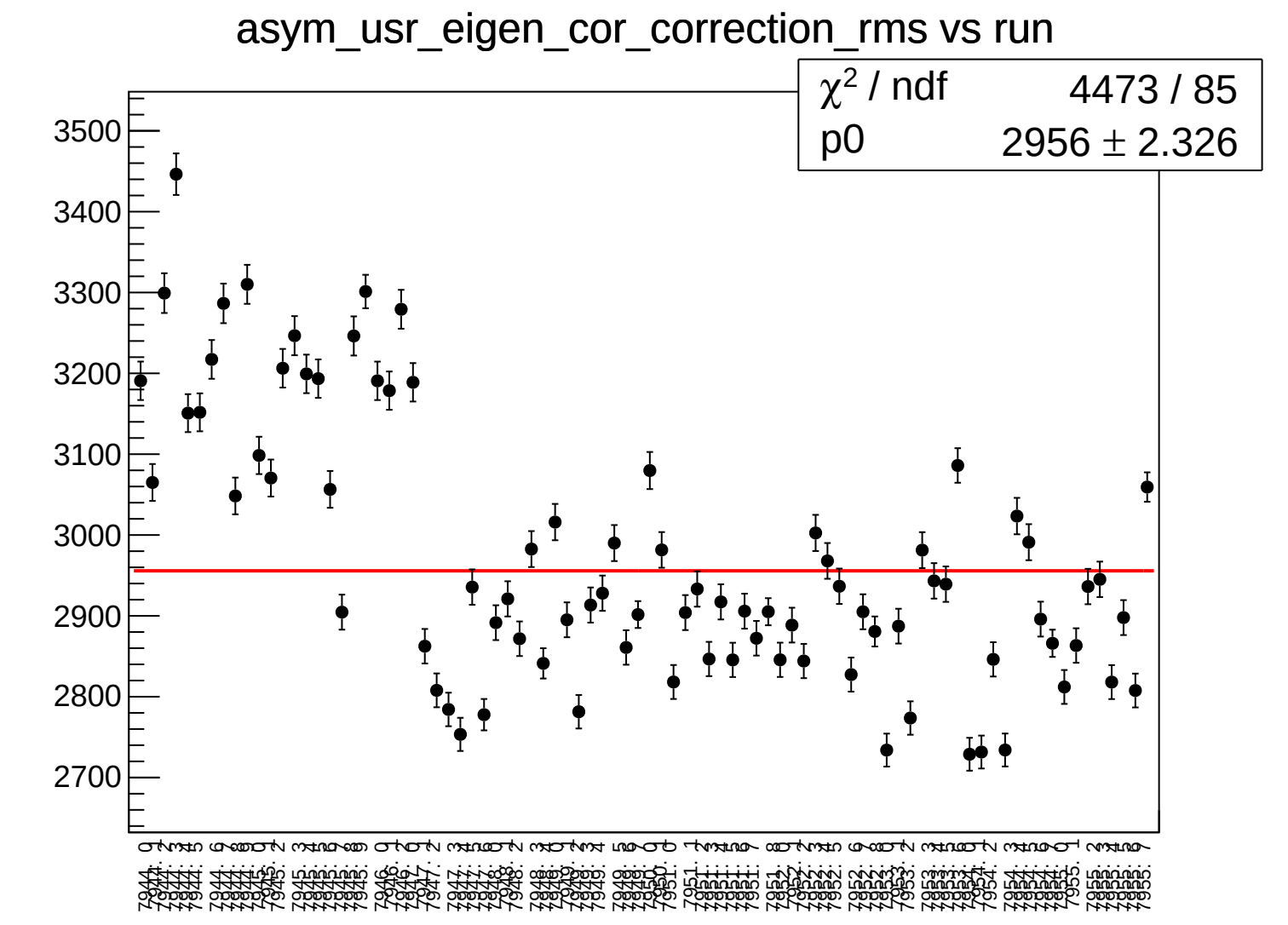

eigen_cor_asym_usr_mean vs run
χ² / ndf 90.05 / 85
p0 1105 ± 1199
pull
Entries 86
Mean −590.6
Std Dev 0

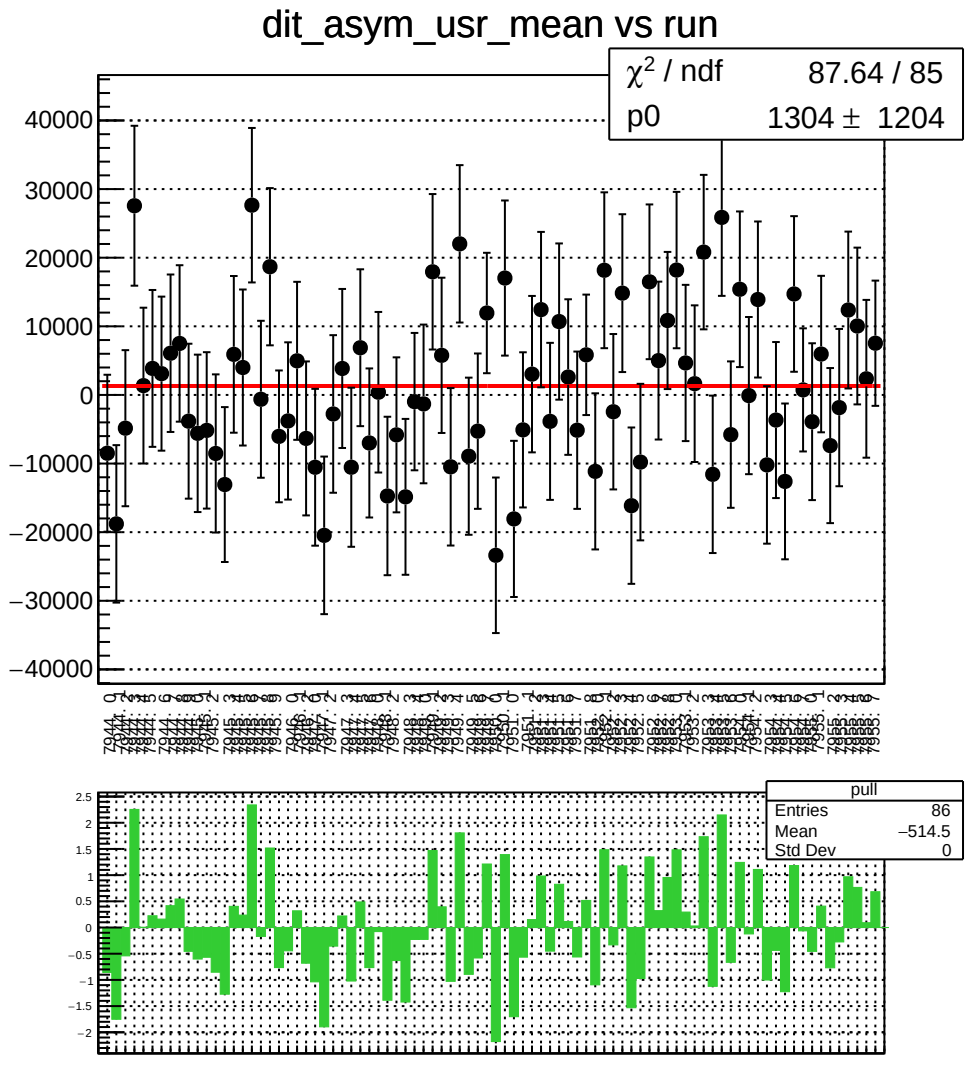

pull1D
Entries 86
Mean −0.006378
Std Dev 1.023

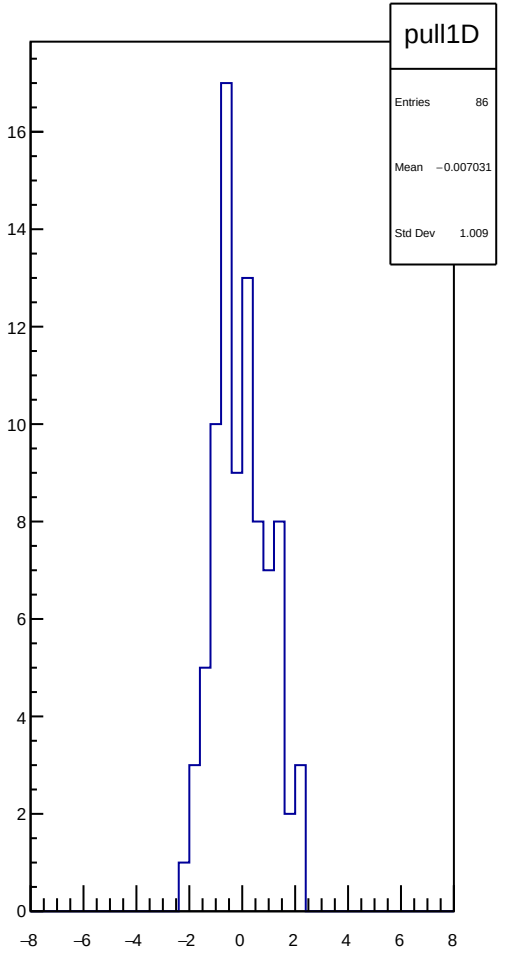

eigen_cor_asym_usr_rms vs run
χ^2 / ndf 72.58 / 85
p0 1078 ± 0.8476
1100
1090
1080
1070
1060
1050

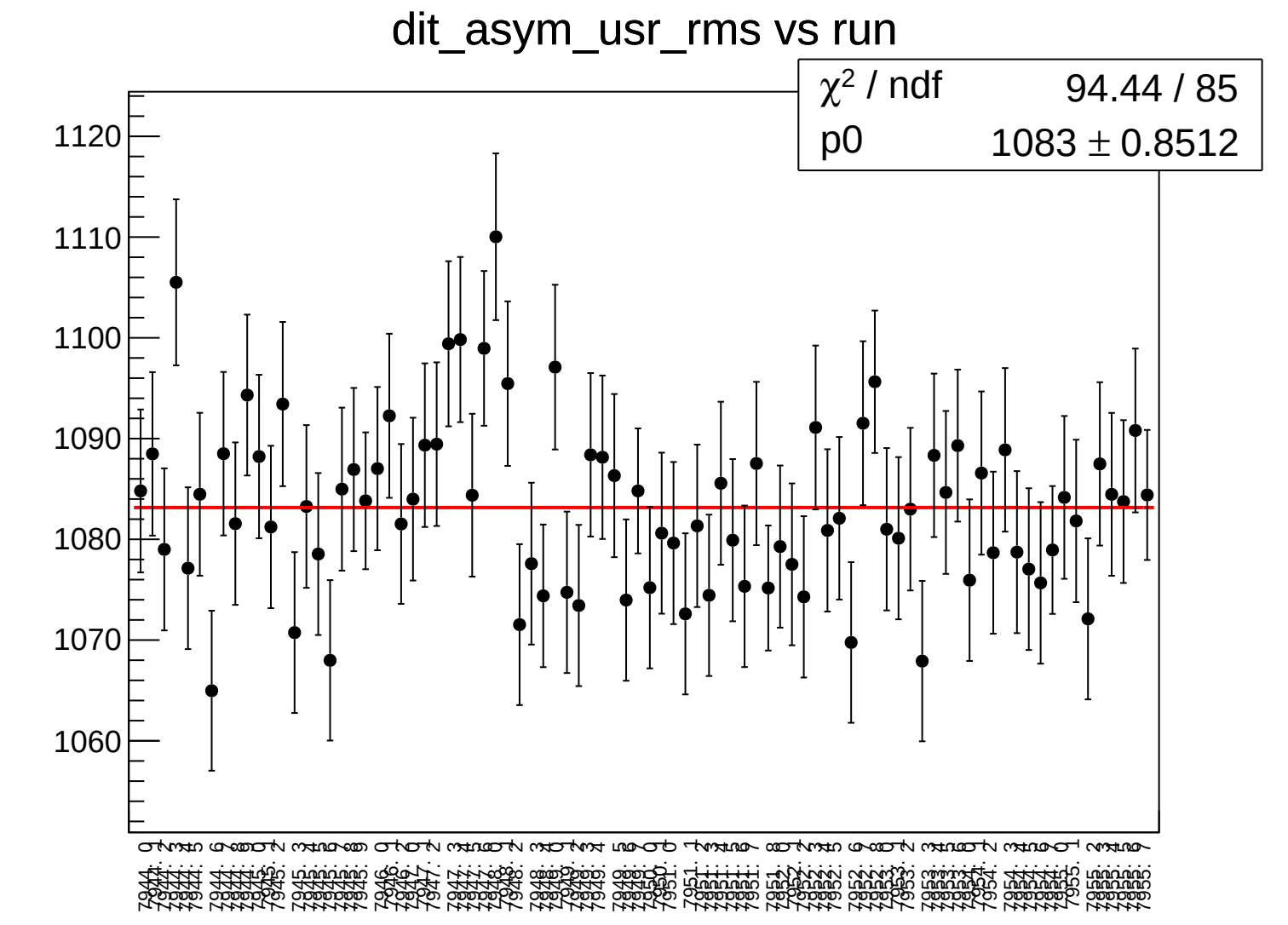

asym_usr_eigen_cor_correction_mean vs run
×10^3
150
100
50
0
−50
−100
χ² / ndf 89.62 / 85
p0 −885.3 ± 3289
pull
Entries 86
Mean −486.6
Std Dev 0
3
2
1
0
−1
−2

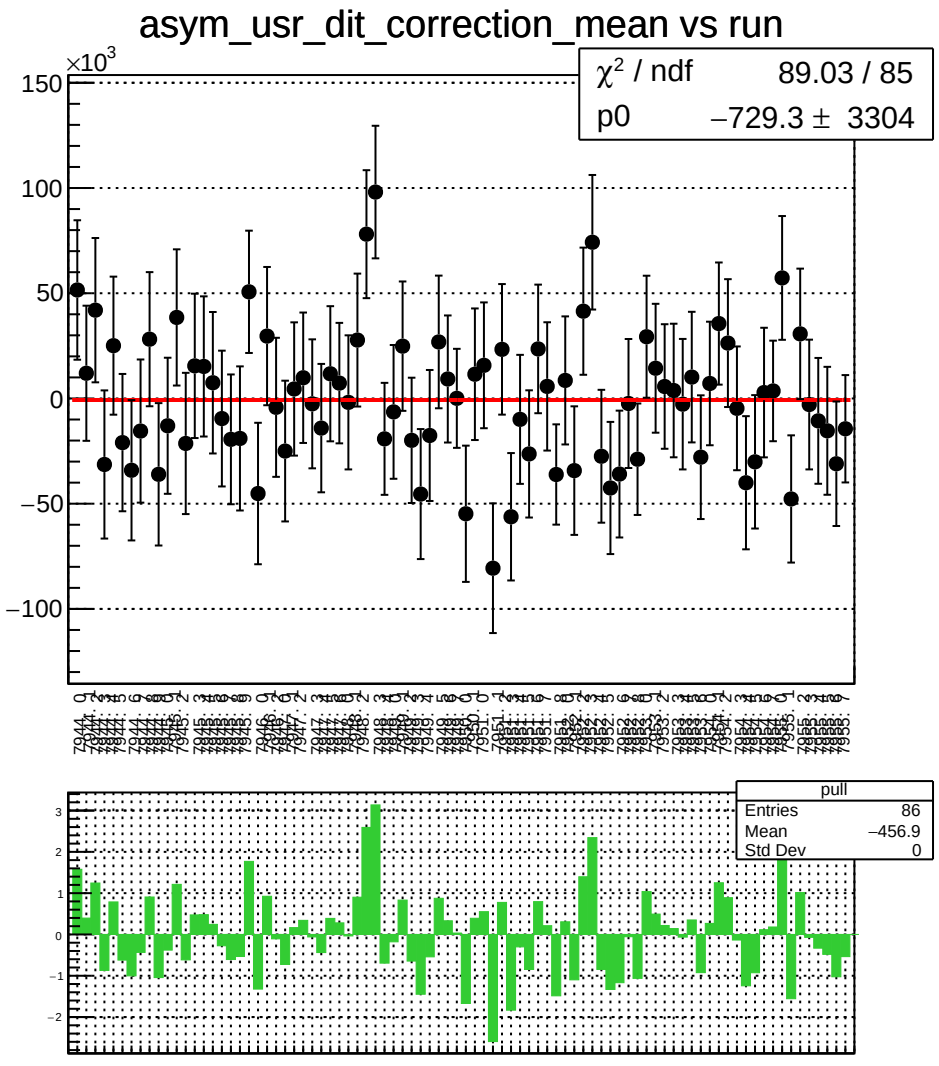

pull1D
Entries 86
Mean 0.004817
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

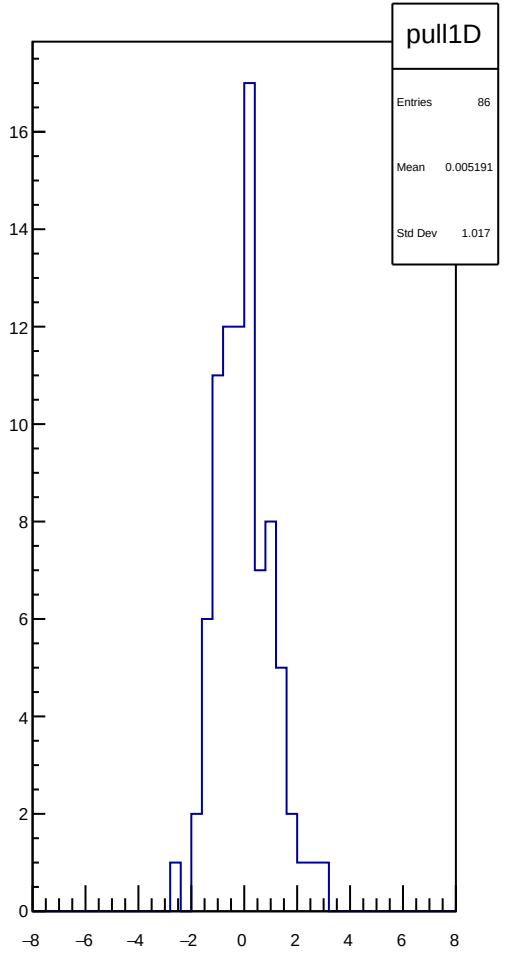

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 4473 / 85
p0 2956 ± 2.326
3500
3400
3300
3200
3100
3000
2900
2800
2700

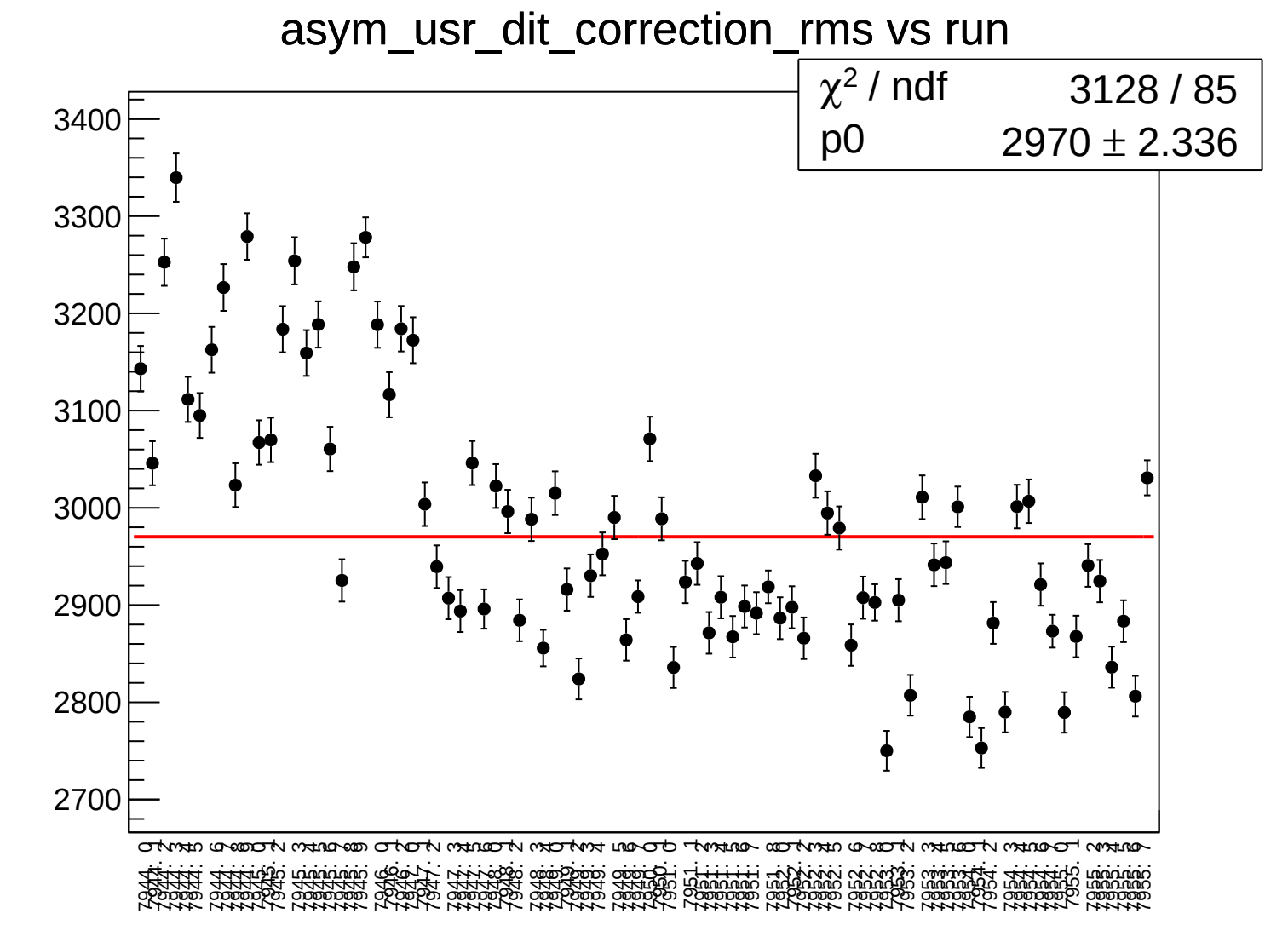

dit_asym_usr_mean vs run
χ² / ndf 87.64 / 85
p0 1304 ± 1204
pull
Entries 86
Mean −514.5
Std Dev 0

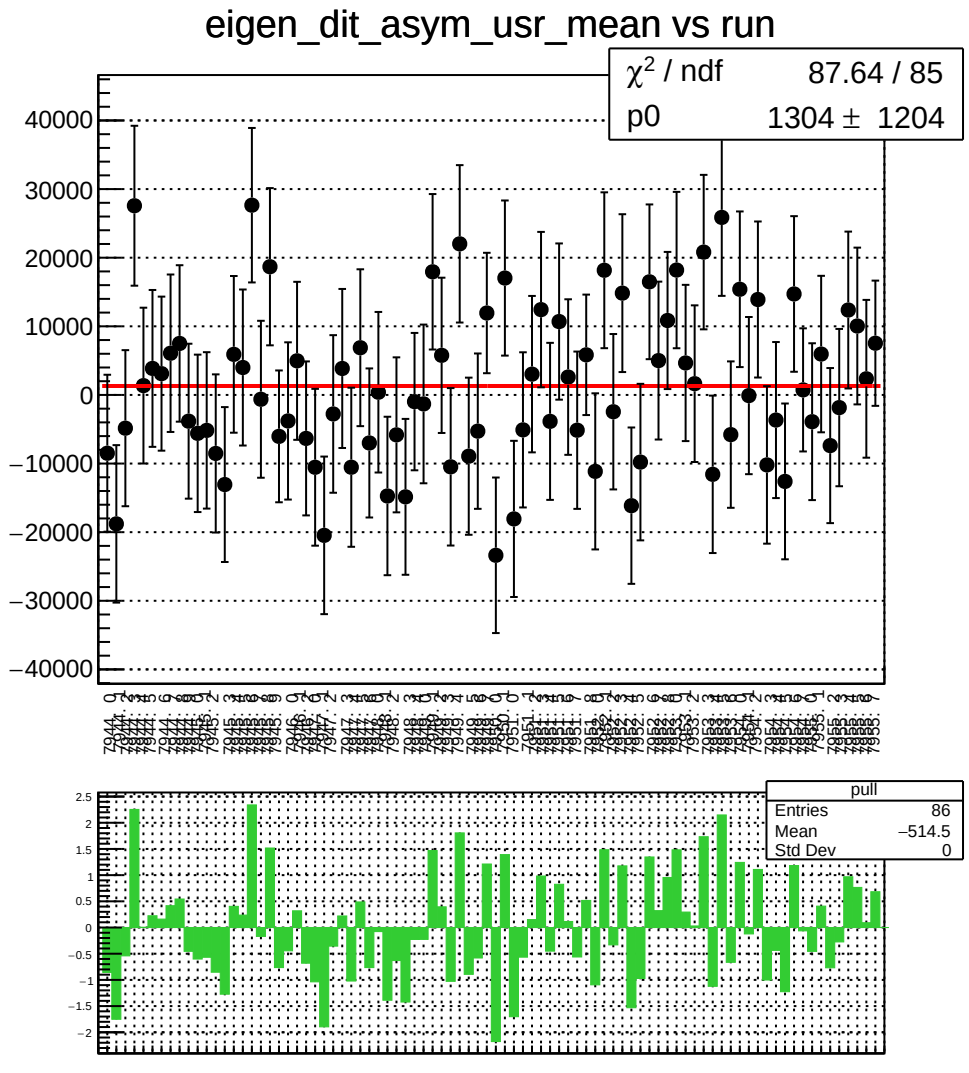

pull1D
Entries 86
Mean −0.007031
Std Dev 1.009

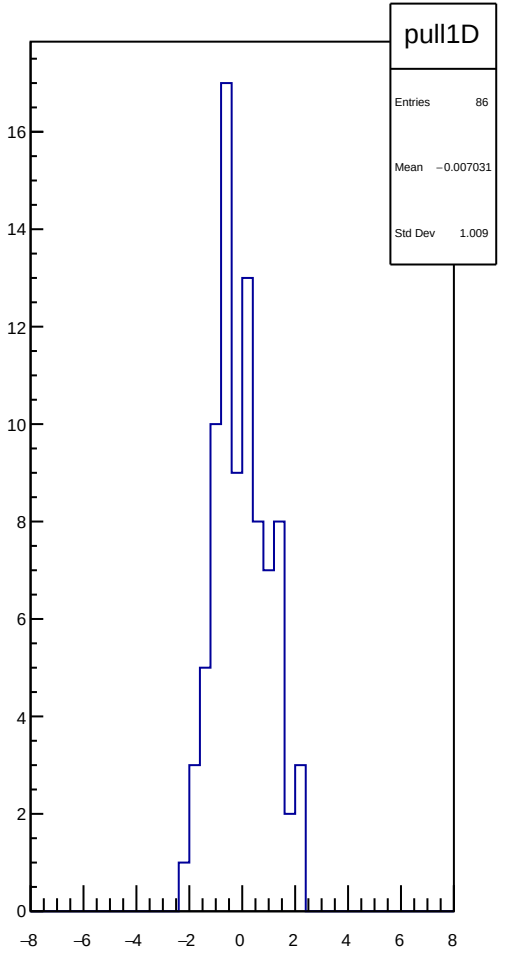

dit_asym_usr_rms vs run
χ² / ndf 94.44 / 85
p0 1083 ± 0.8512
1120
1110
1100
1090
1080
1070
1060

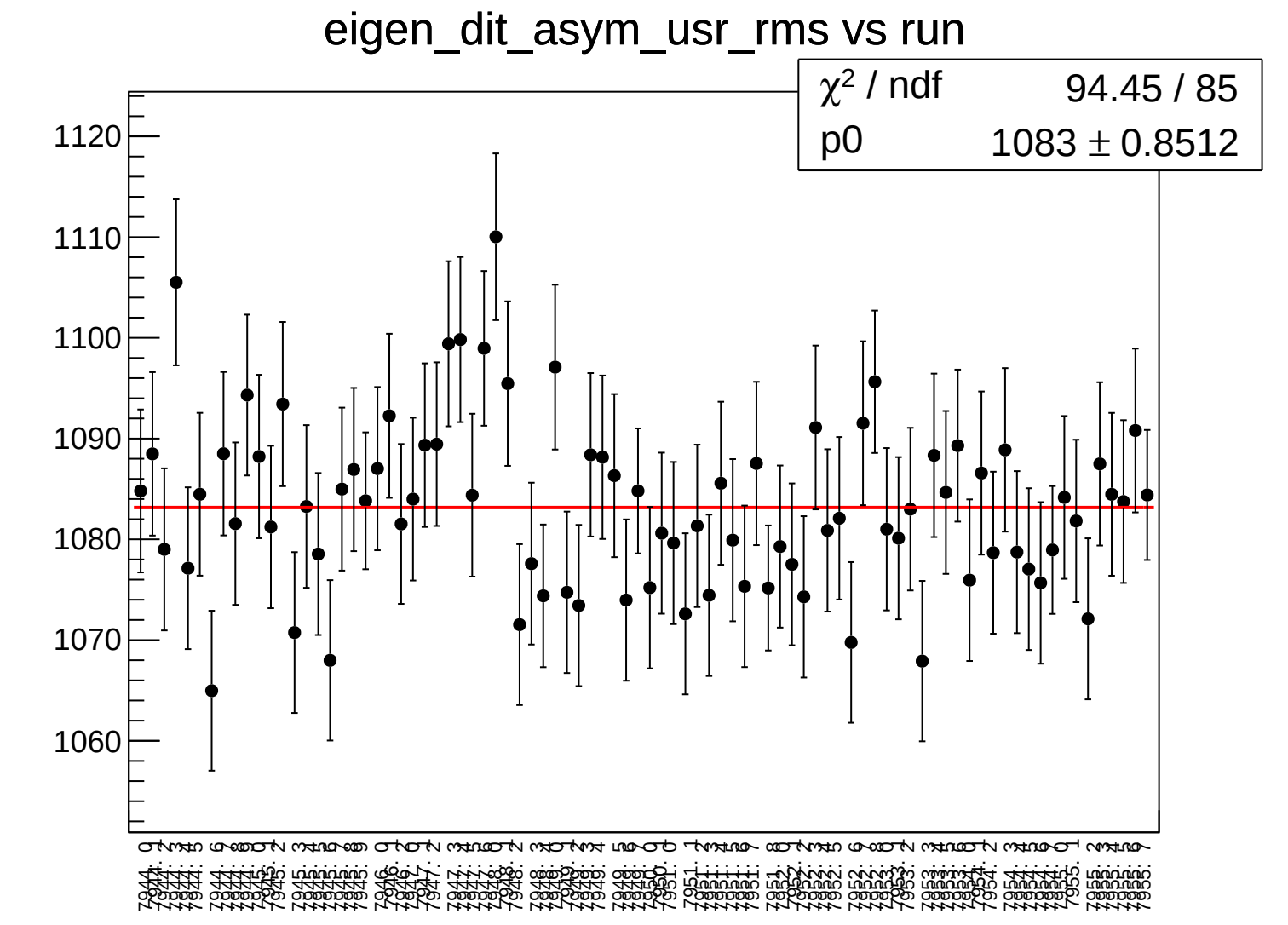

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 89.03 / 85
p0 −729.3 ± 3304
150
100
50
0
−50
−100
pull
Entries 86
Mean −456.9
Std Dev 0
3
2
1
0
−1
−2

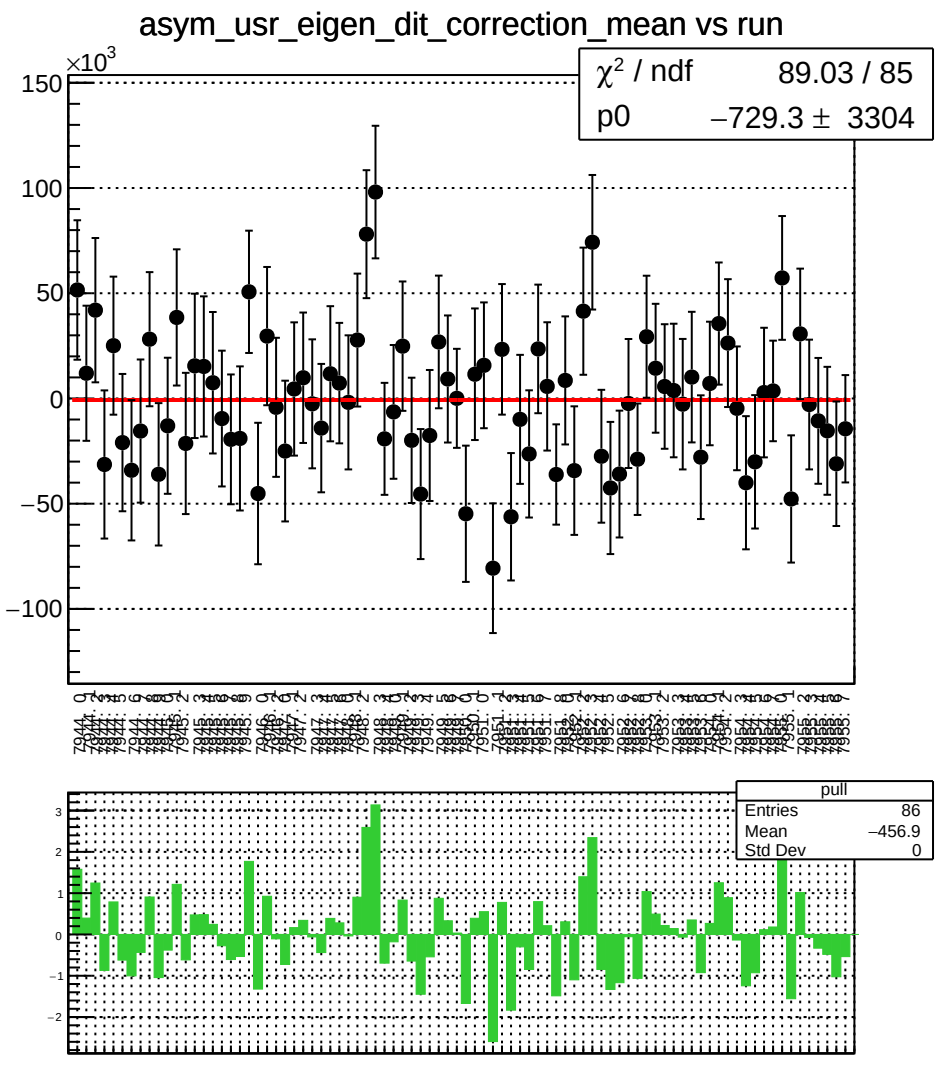

pull1D
Entries 86
Mean 0.005191
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

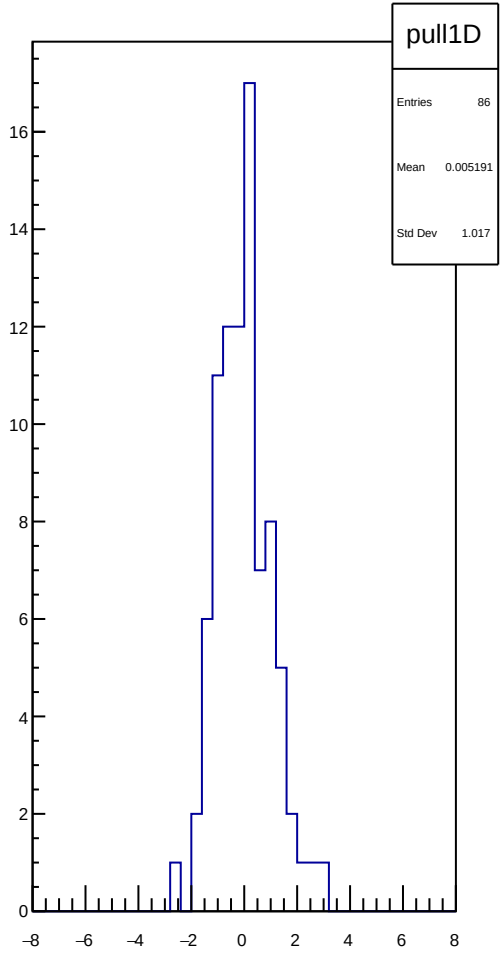

asym_usr_dit_correction_rms vs run
χ² / ndf 3128 / 85
p0 2970 ± 2.336
3400
3300
3200
3100
3000
2900
2800
2700

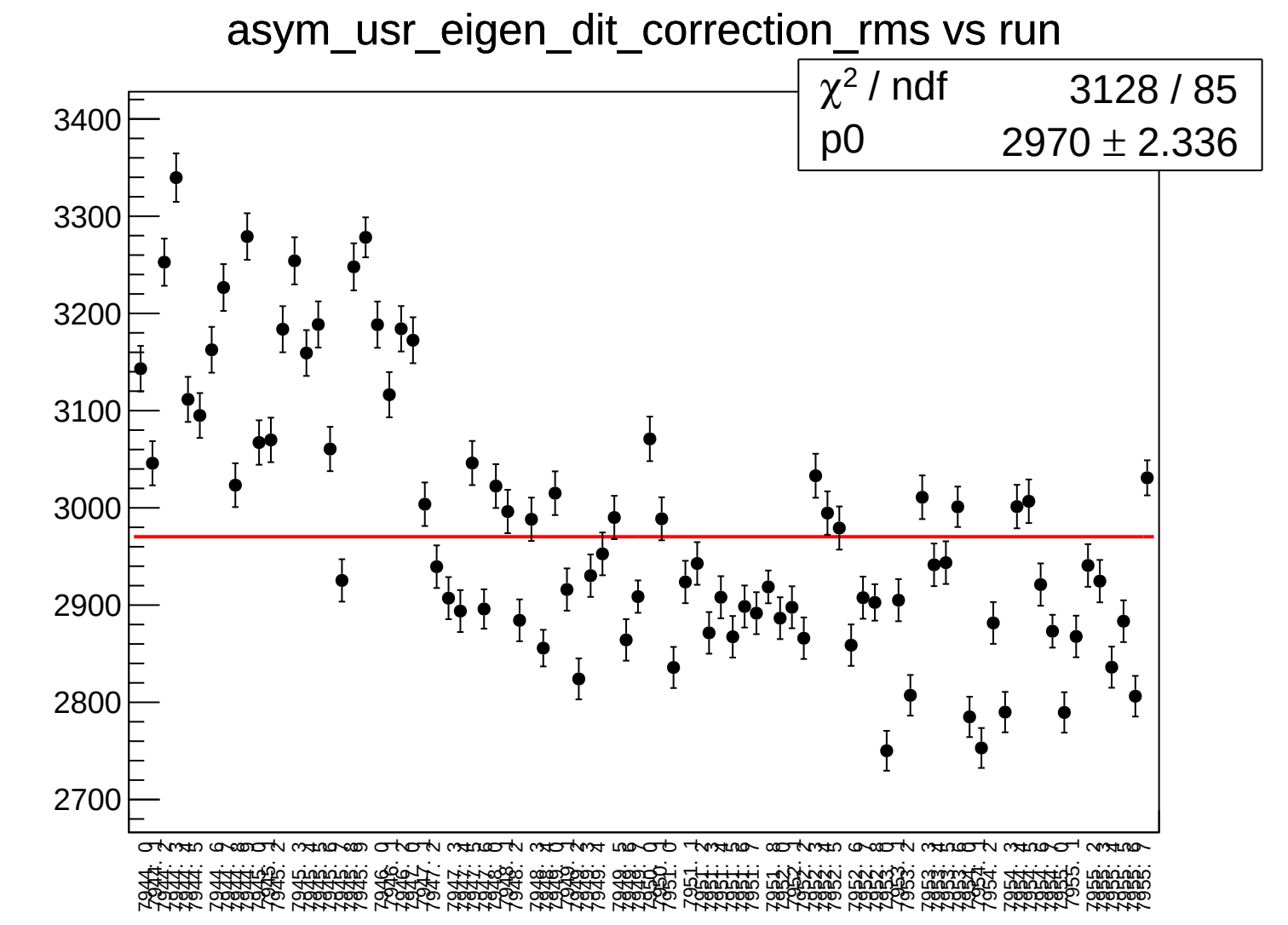

eigen_dit_asym_usr_mean vs run
χ² / ndf 87.64 / 85
p0 1304 ± 1204
pull
Entries 86
Mean −514.5
Std Dev 0

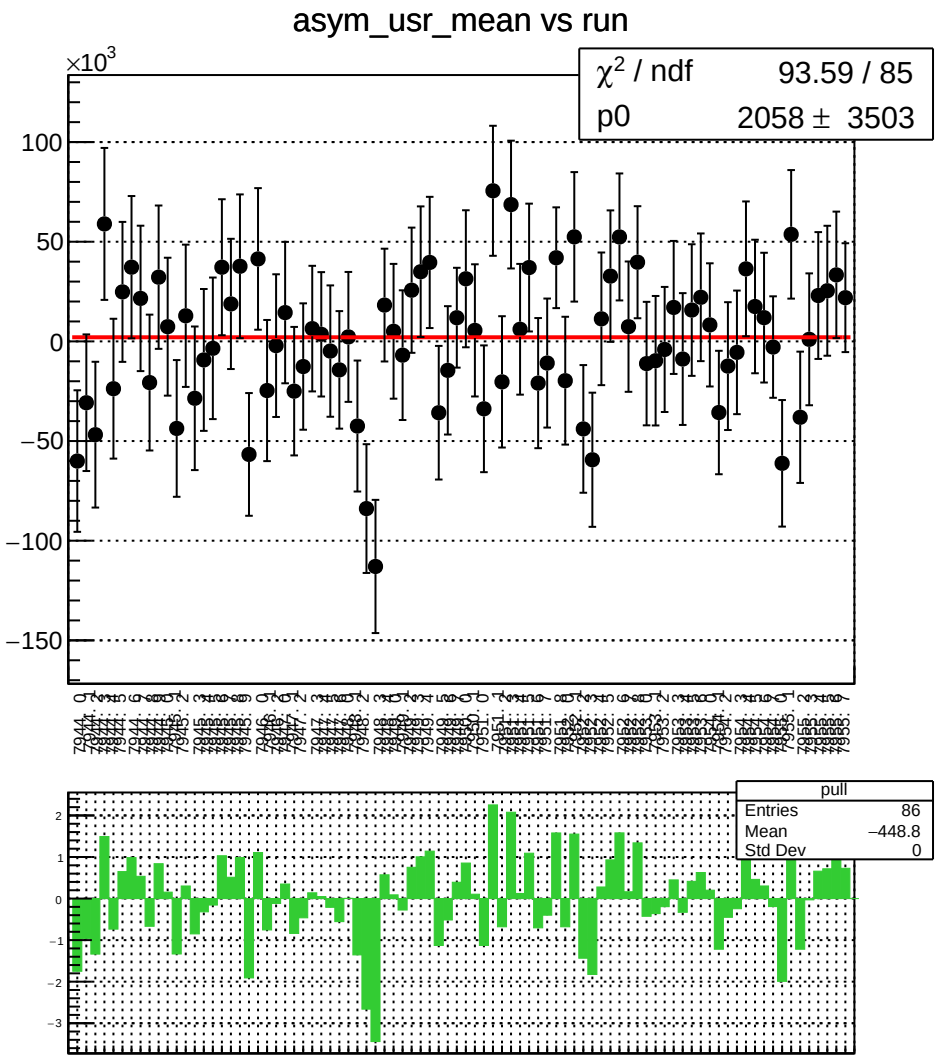

pull1D
Entries 86
Mean −0.007031
Std Dev 1.009

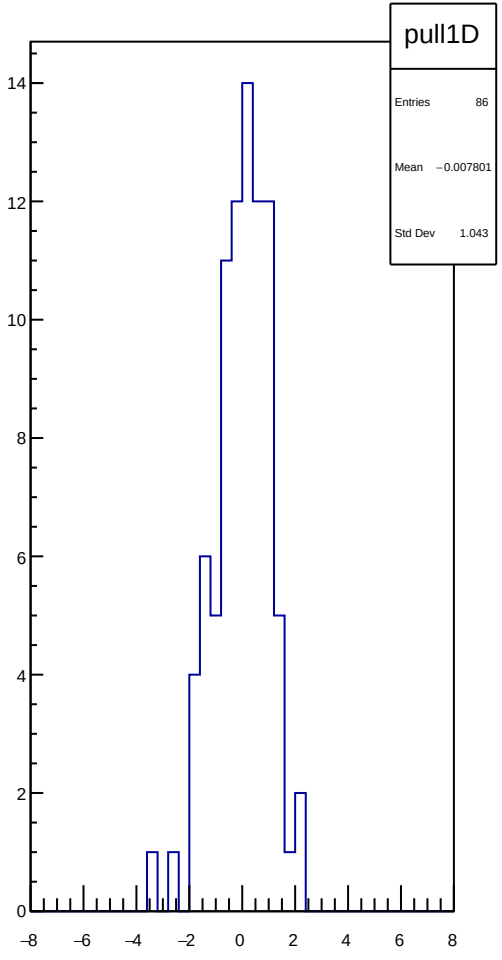

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 94.45 / 85
p0 1083 ± 0.8512
1120
1110
1100
1090
1080
1070
1060

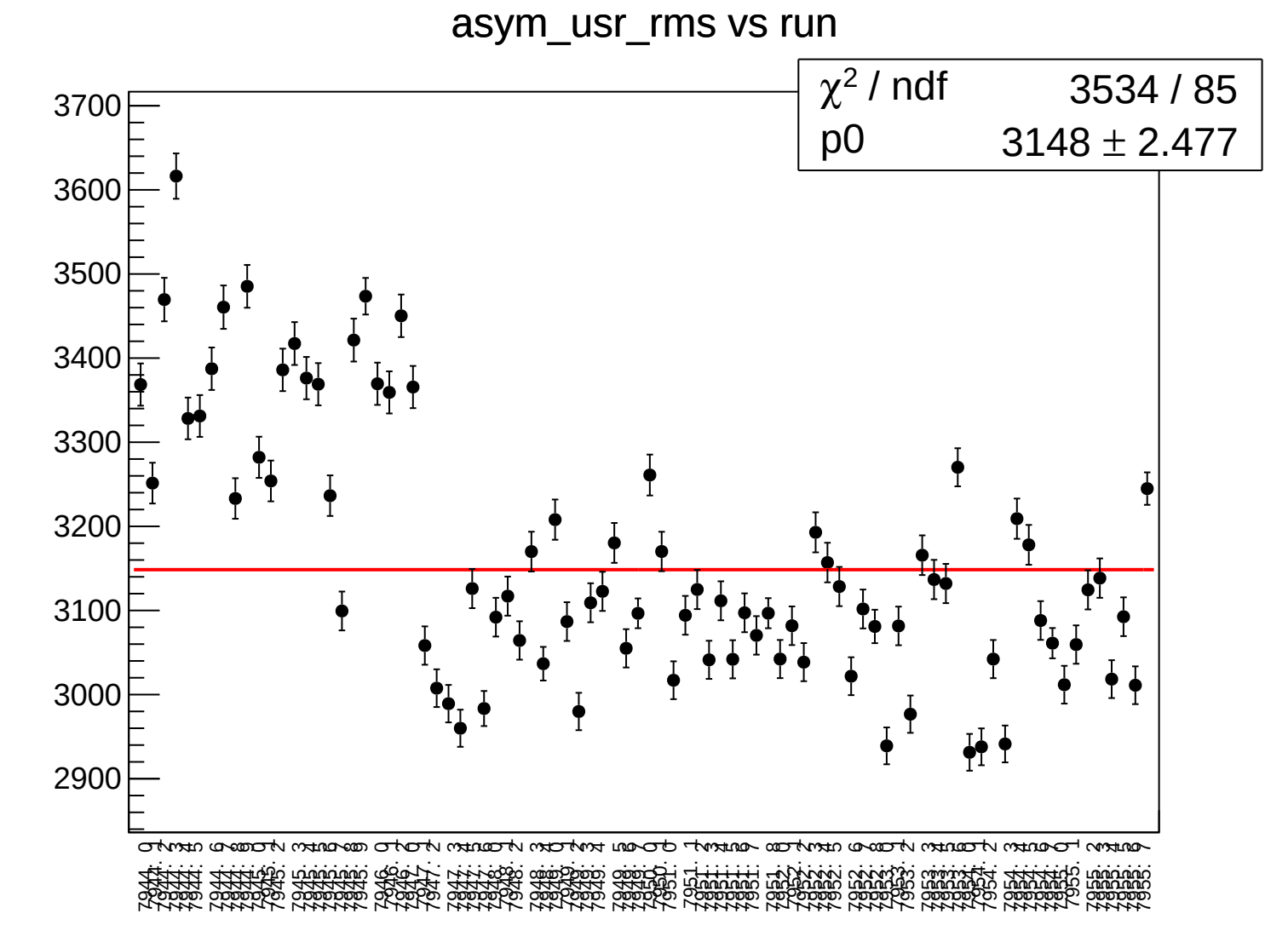

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.03 / 85
p0 −729.3 ± 3304
150
100
50
0
−50
−100
pull
Entries 86
Mean −456.9
Std Dev 0
3
2
1
0
−1
−2

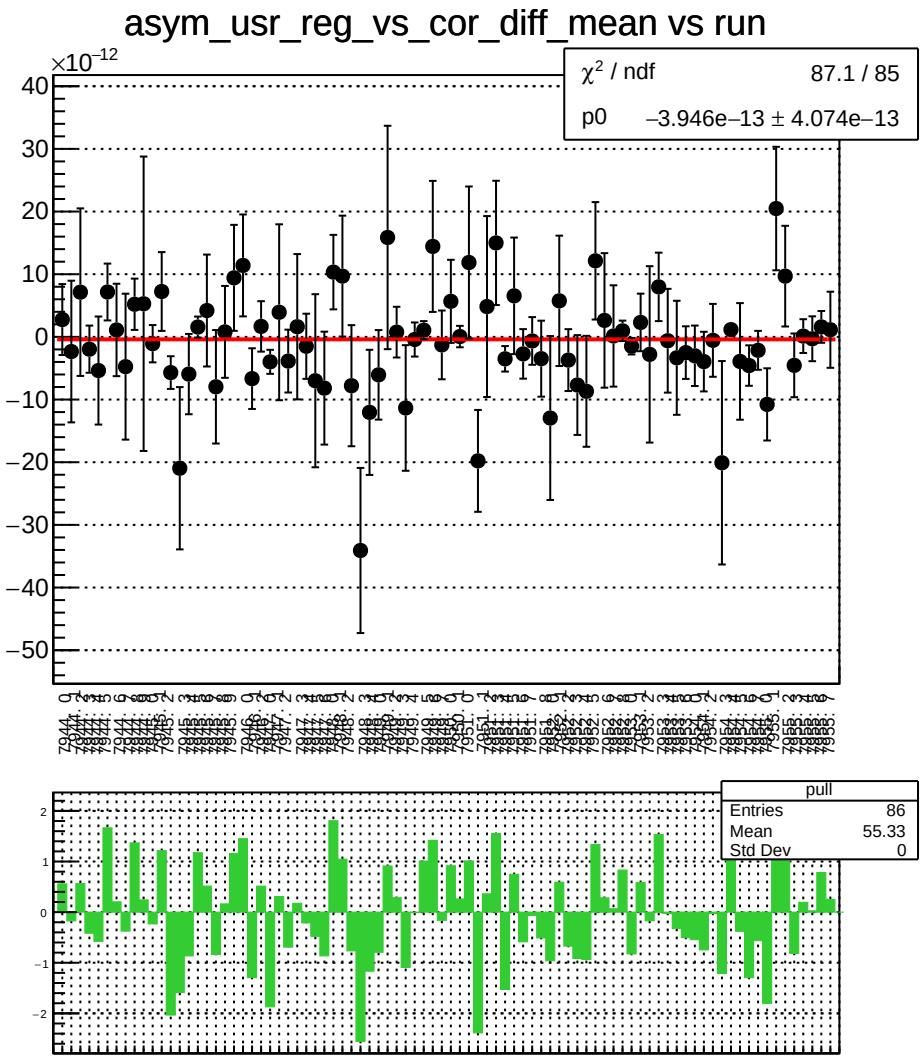

pull1D
Entries 86
Mean 0.005191
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

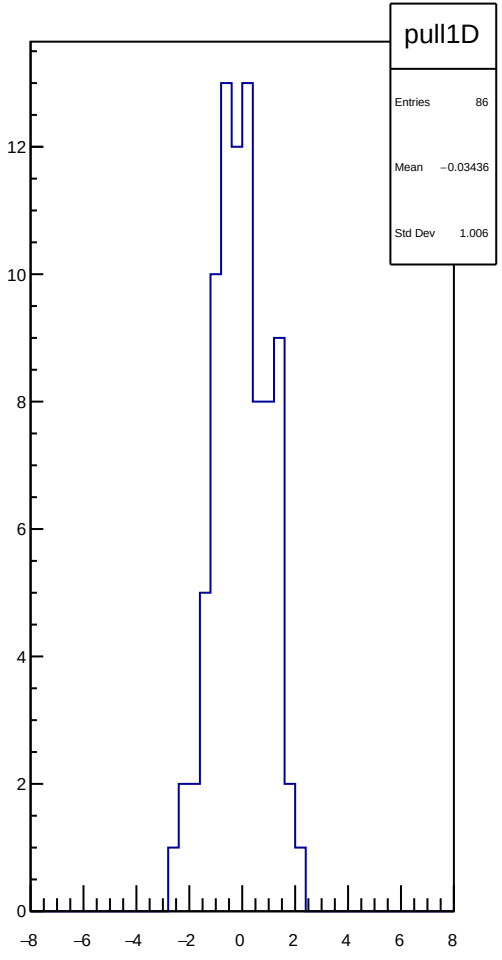

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 3128 / 85
p0 2970 ± 2.336
3400
3300
3200
3100
3000
2900
2800
2700

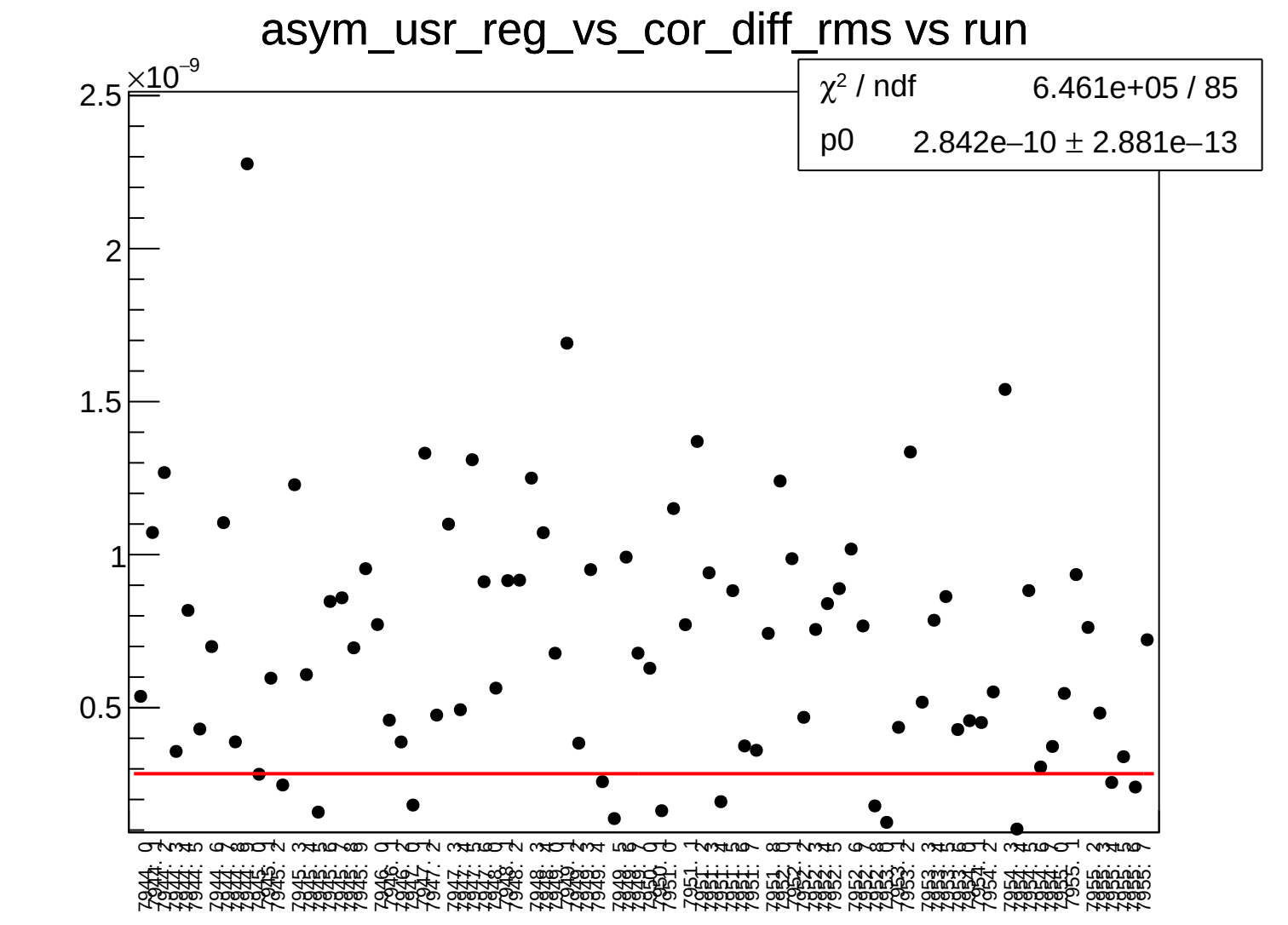

asym_usr_mean vs run
×10^3
χ² / ndf 93.59 / 85
p0 2058 ± 3503
100
50
0
−50
−100
−150
pull
Entries 86
Mean −448.8
Std Dev 0
2
1
0
−1
−2
−3

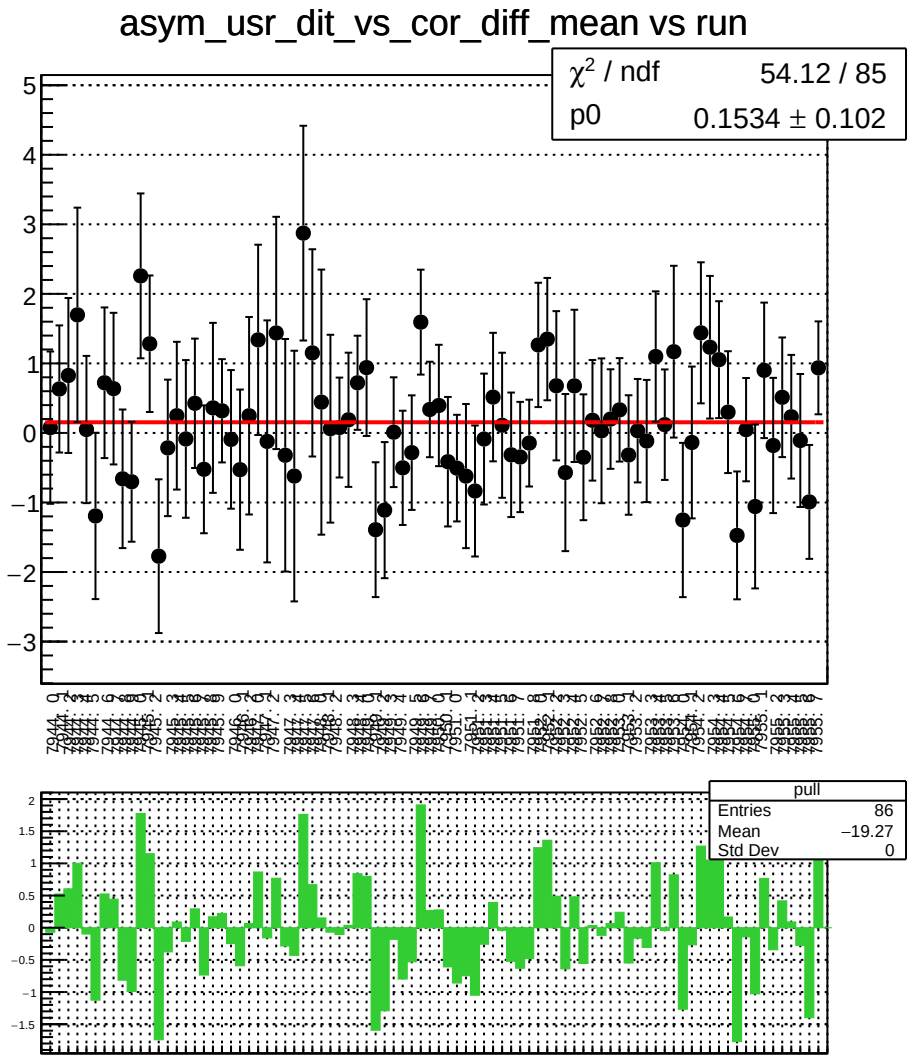

pull1D
Entries 86
Mean −0.007801
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

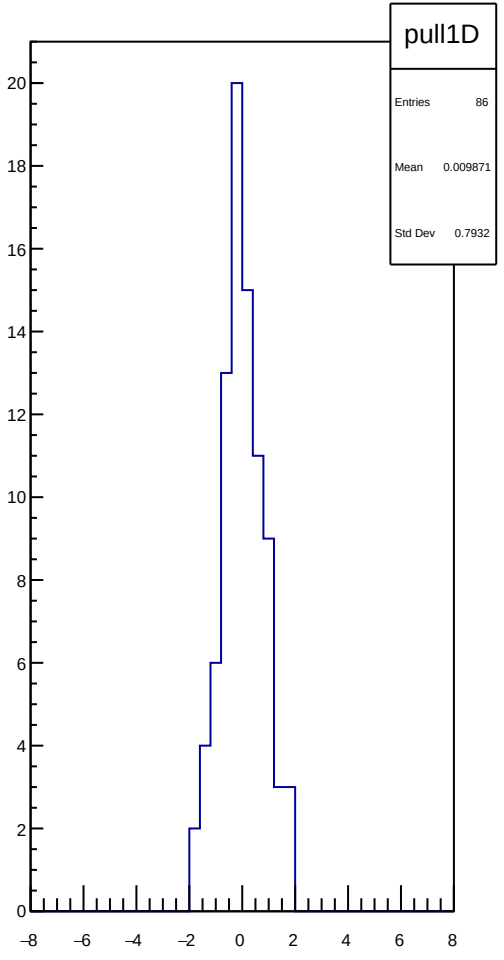

asym_usr_rms vs run
χ^2 / ndf 3534 / 85
p0 3148 ± 2.477
3700
3600
3500
3400
3300
3200
3100
3000
2900

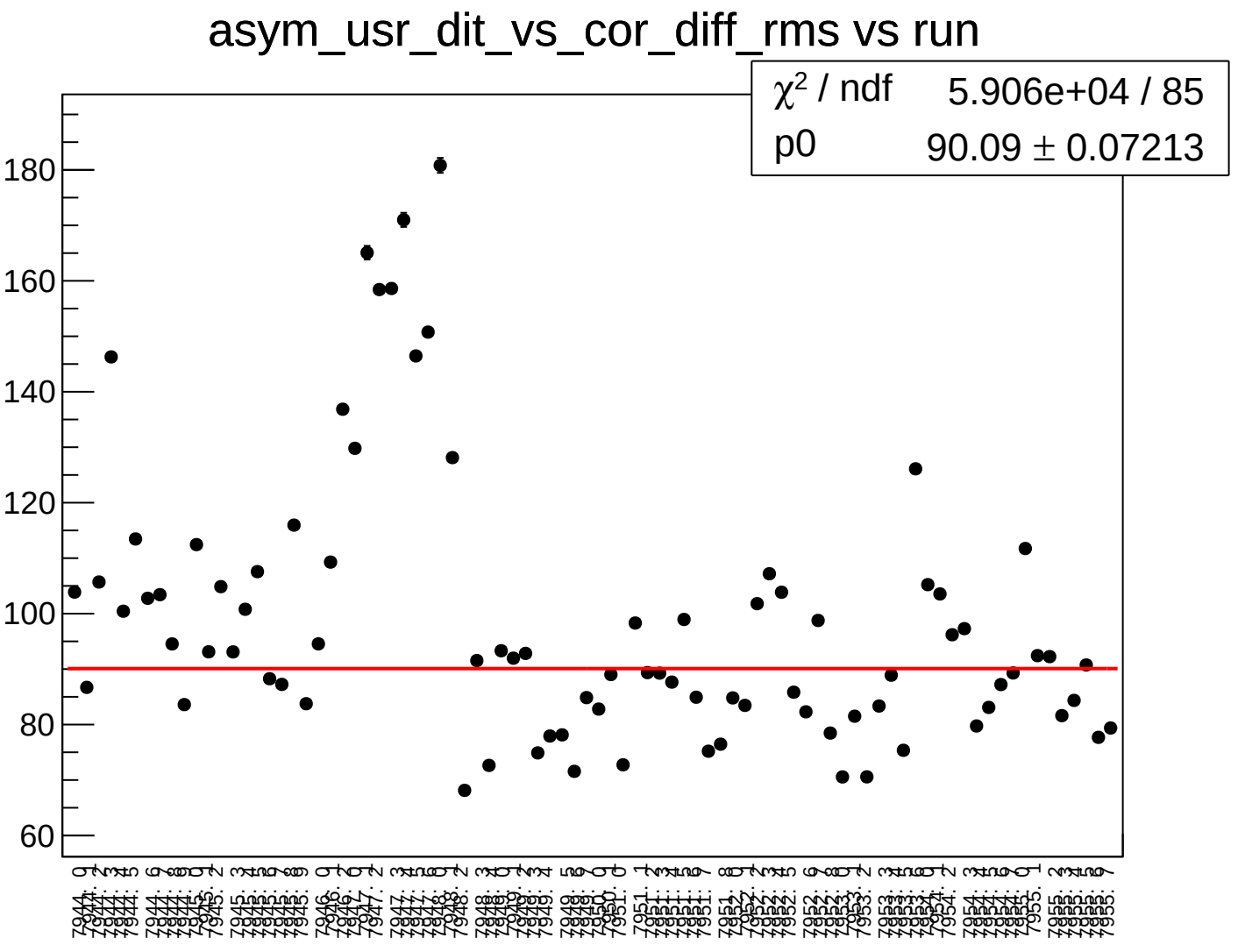

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.1 / 85
p0 −3.946e−13 ± 4.074e−13
pull
Entries 86
Mean 55.33
Std Dev 0

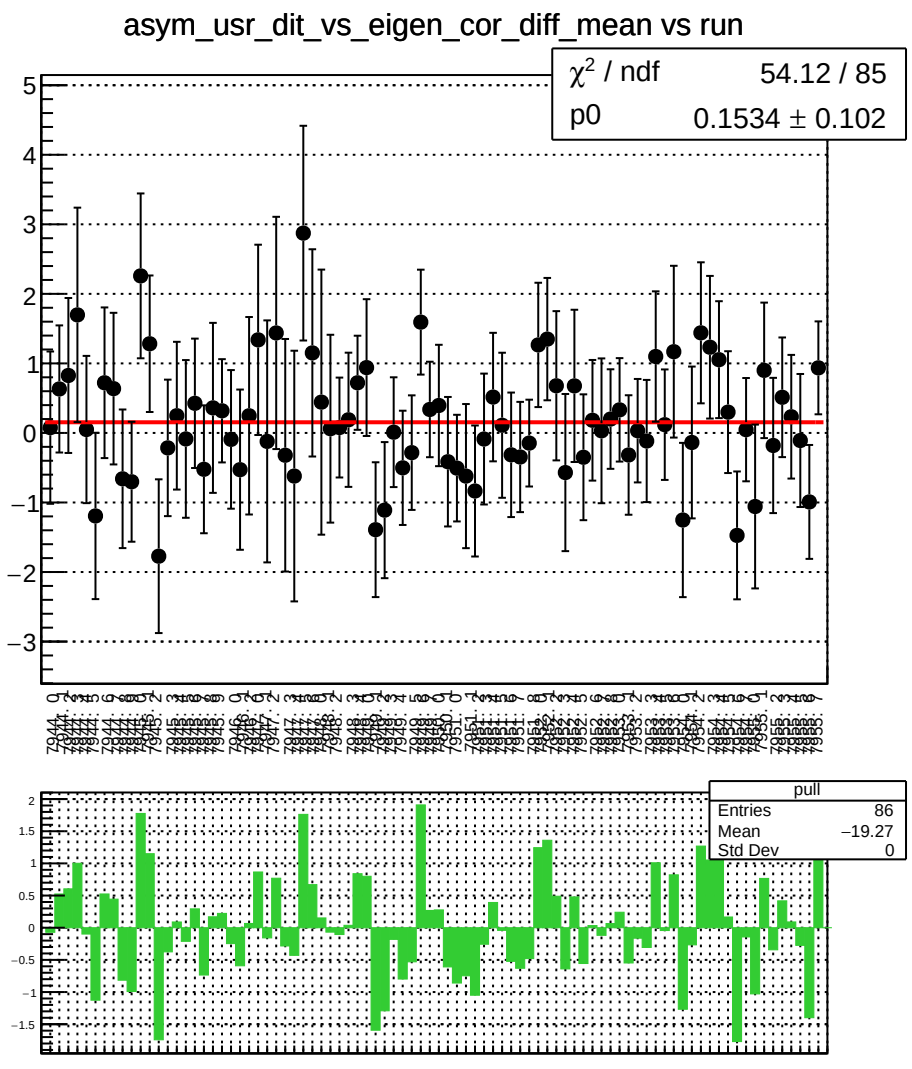

pull1D
Entries 86
Mean −0.03436
Std Dev 1.006

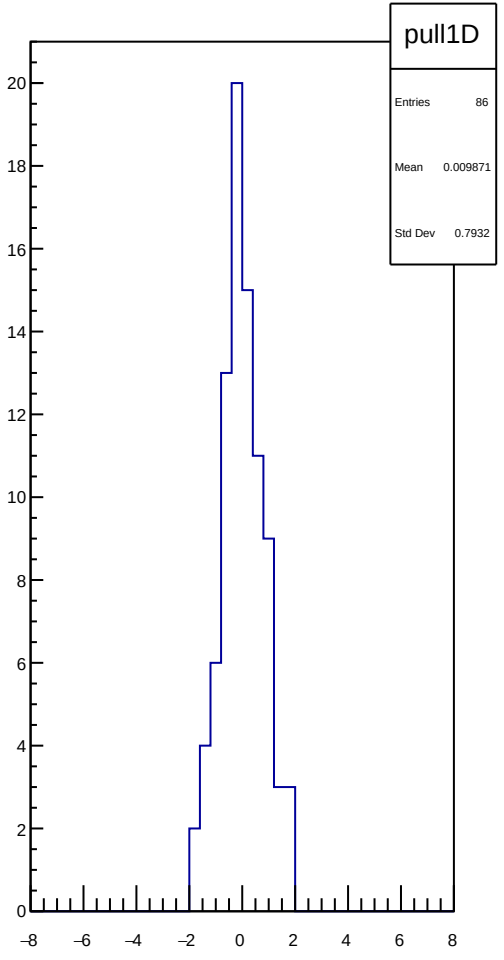

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 6.461e+05 / 85
p0 2.842e−10 ± 2.881e−13

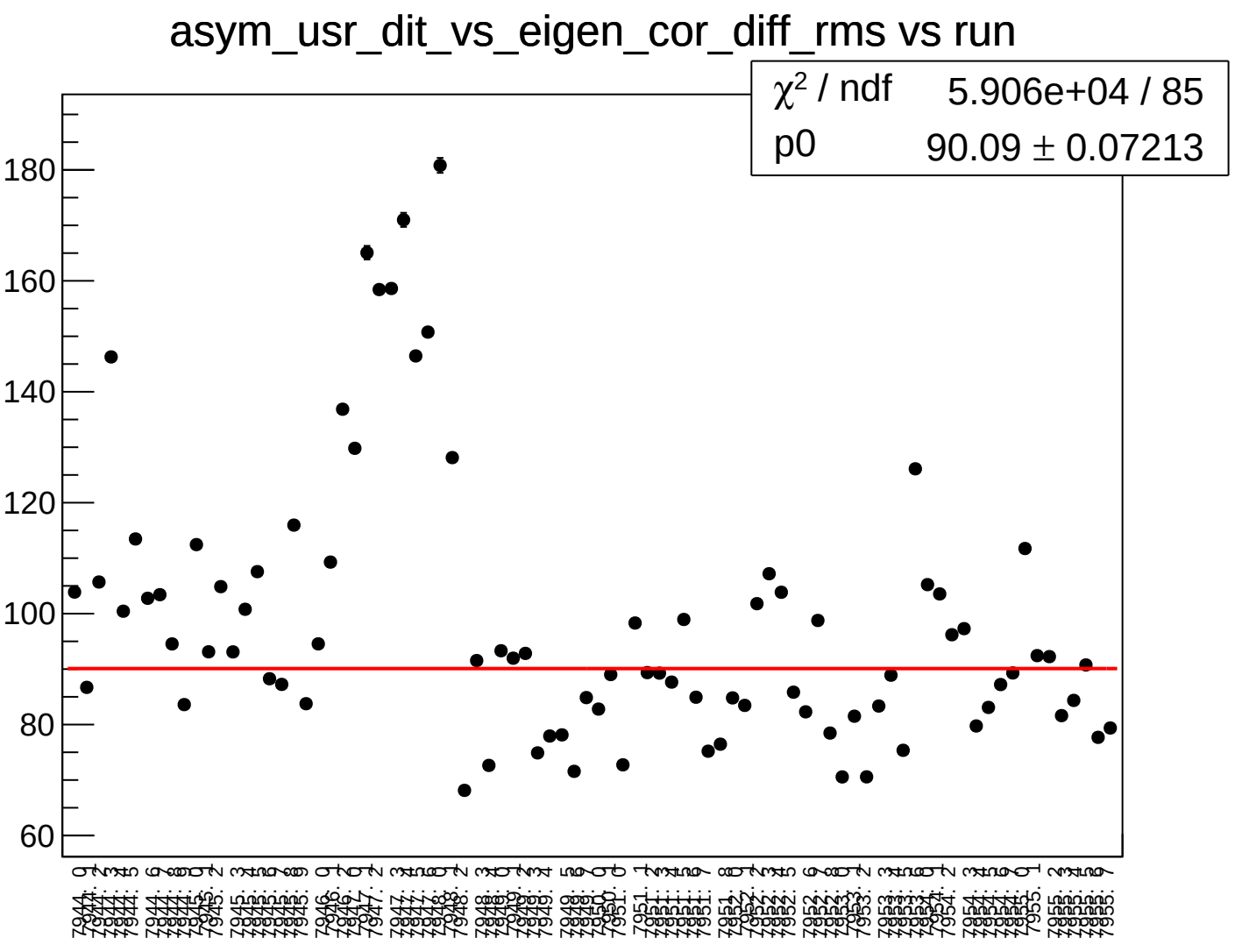

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 54.12 / 85
p0 0.1534 ± 0.102
pull
Entries 86
Mean −19.27
Std Dev 0

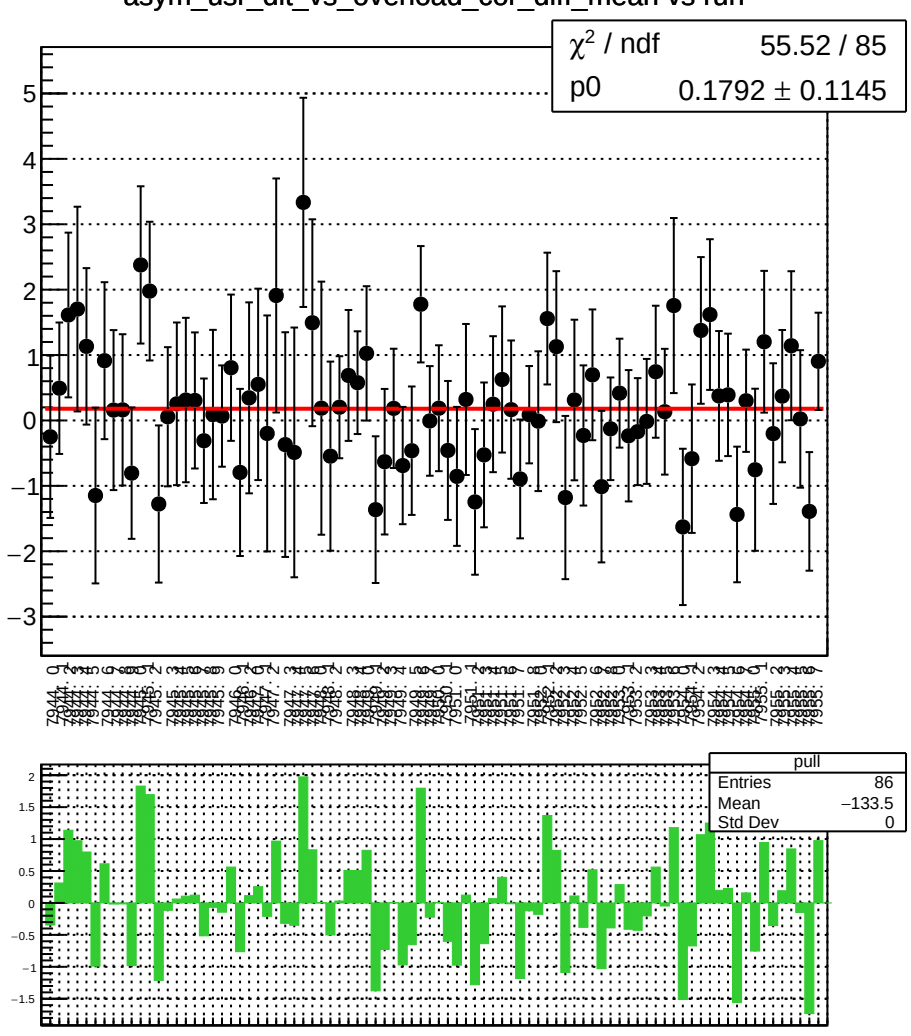

pull1D
Entries 86
Mean 0.009871
Std Dev 0.7932

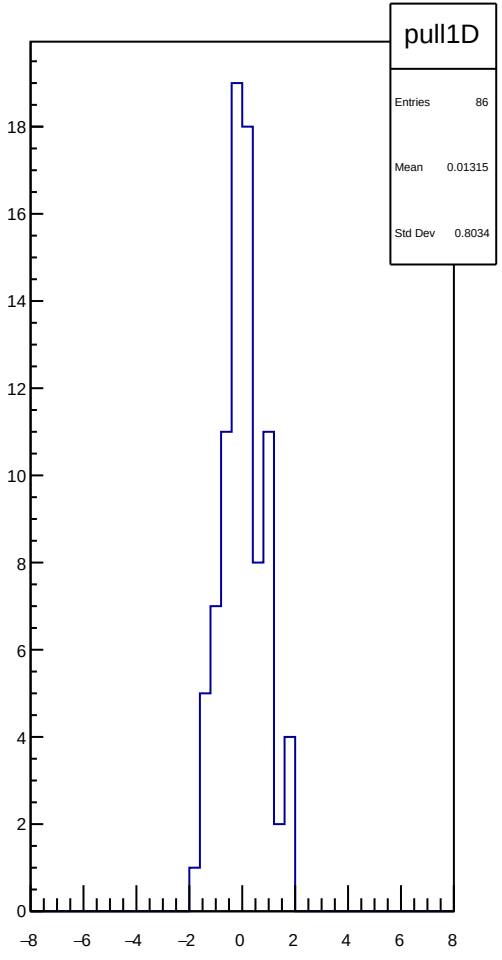

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 5.906e+04 / 85
p0 90.09 ± 0.07213
180
160
140
120
100
80
60

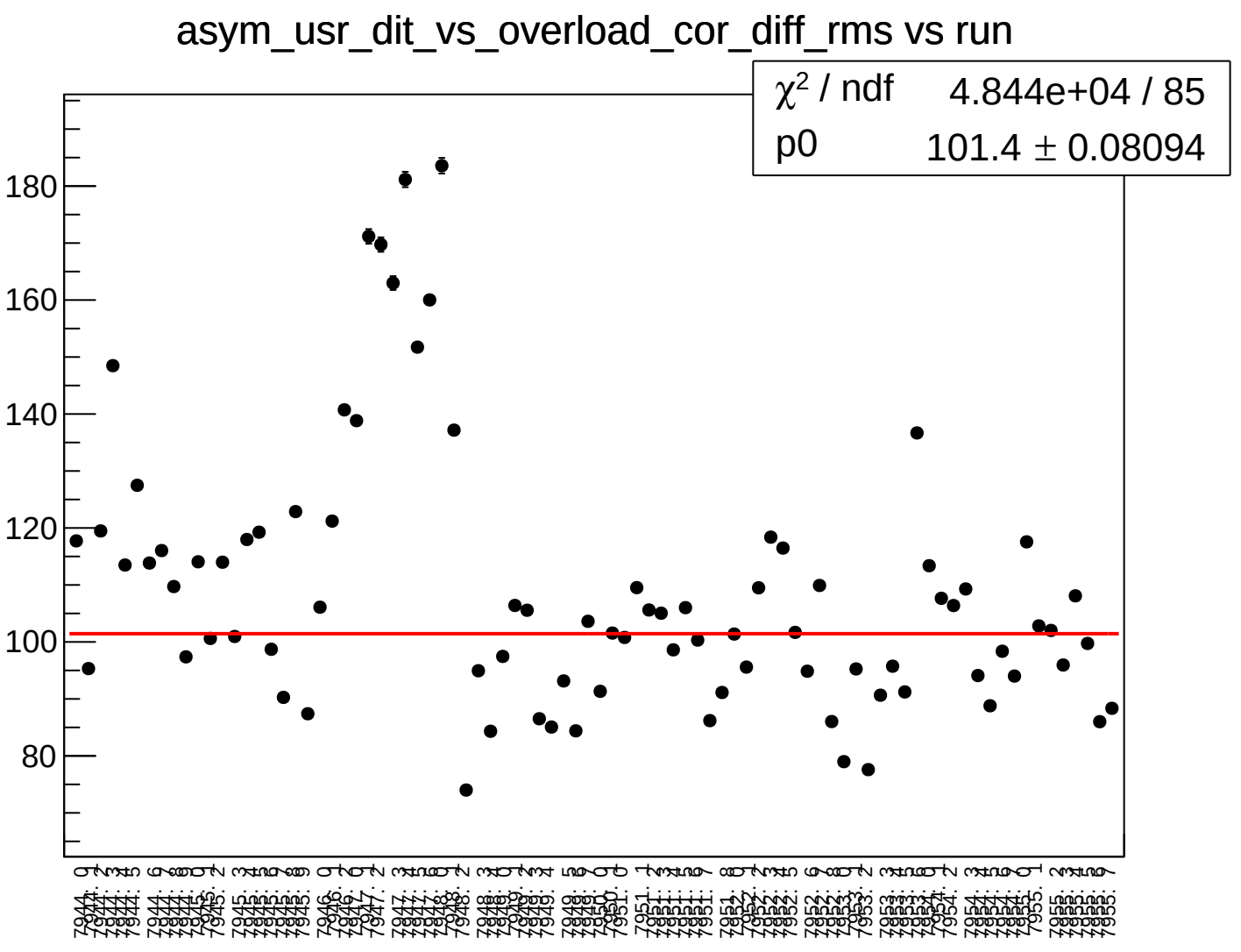

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.12 / 85
p0 0.1534 ± 0.102
pull
Entries 86
Mean −19.27
Std Dev 0

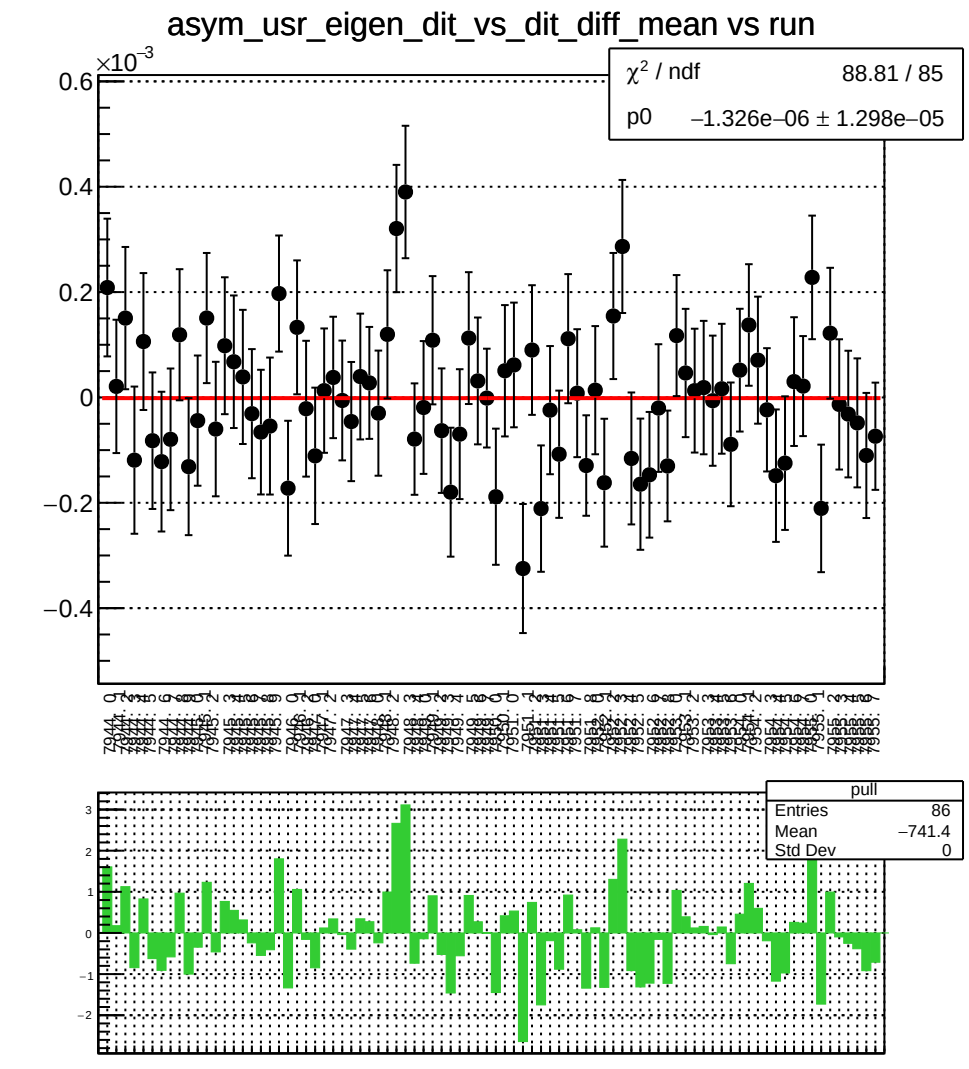

pull1D
Entries 86
Mean 0.009871
Std Dev 0.7932

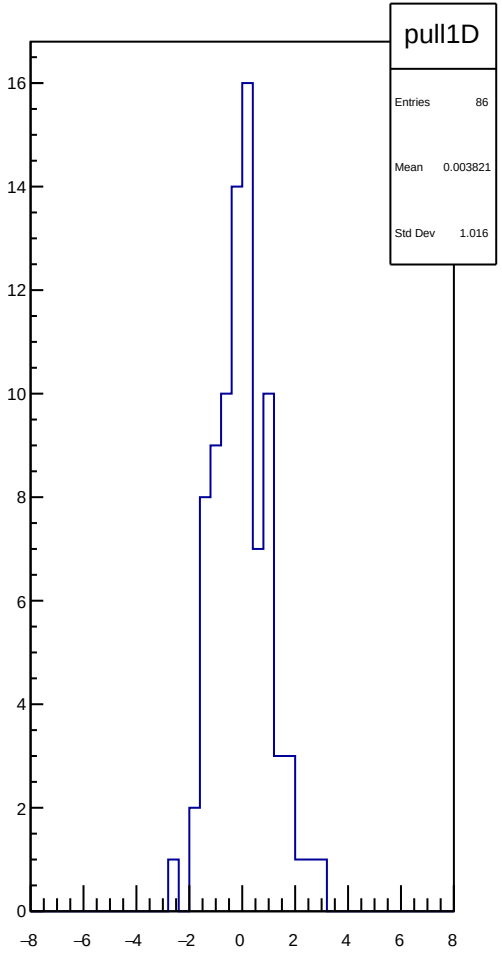

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.906e+04 / 85
p0 90.09 ± 0.07213
180
160
140
120
100
80
60

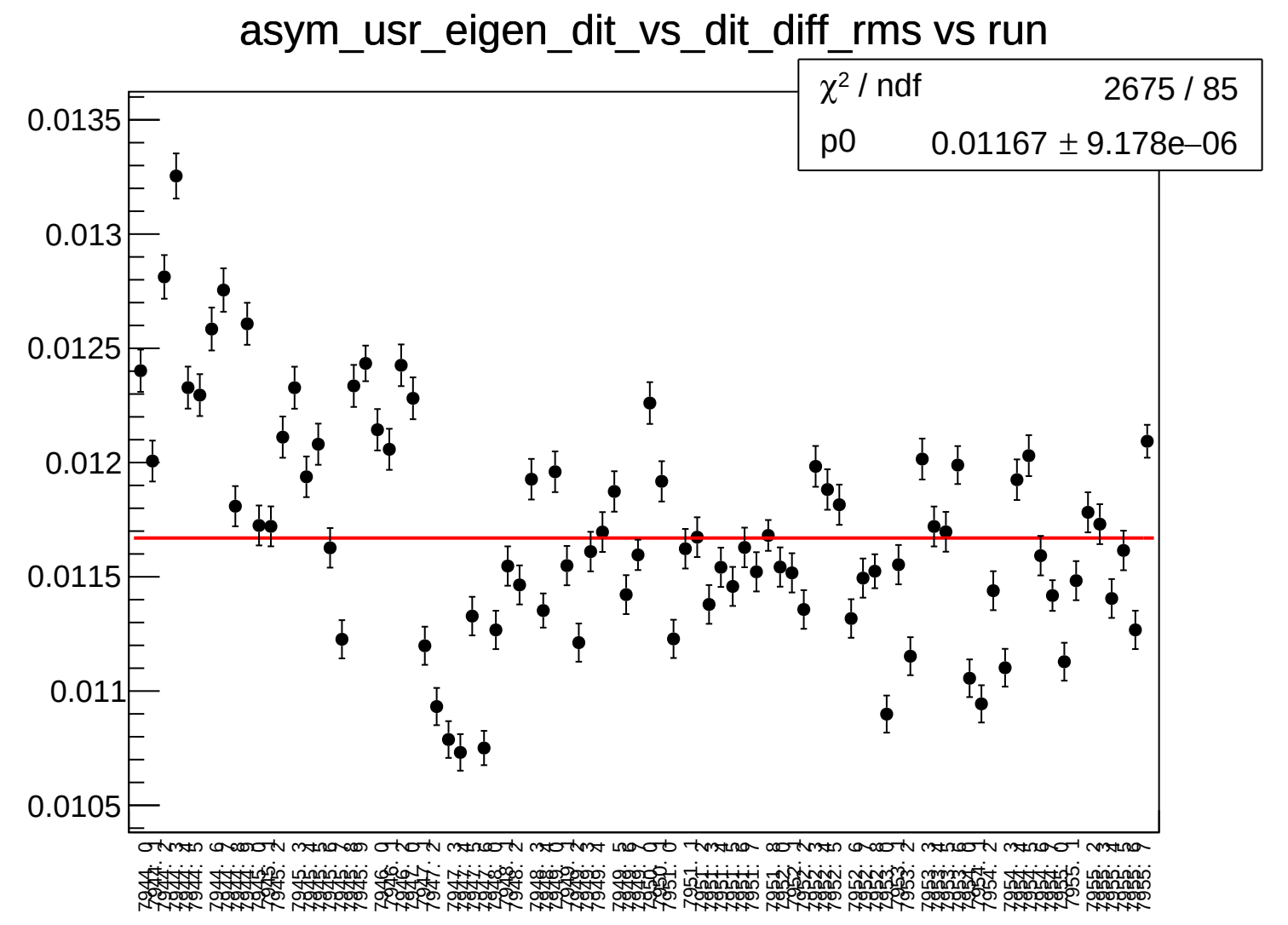

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 55.52 / 85
p0 0.1792 ± 0.1145
pull
Entries 86
Mean −133.5
Std Dev 0

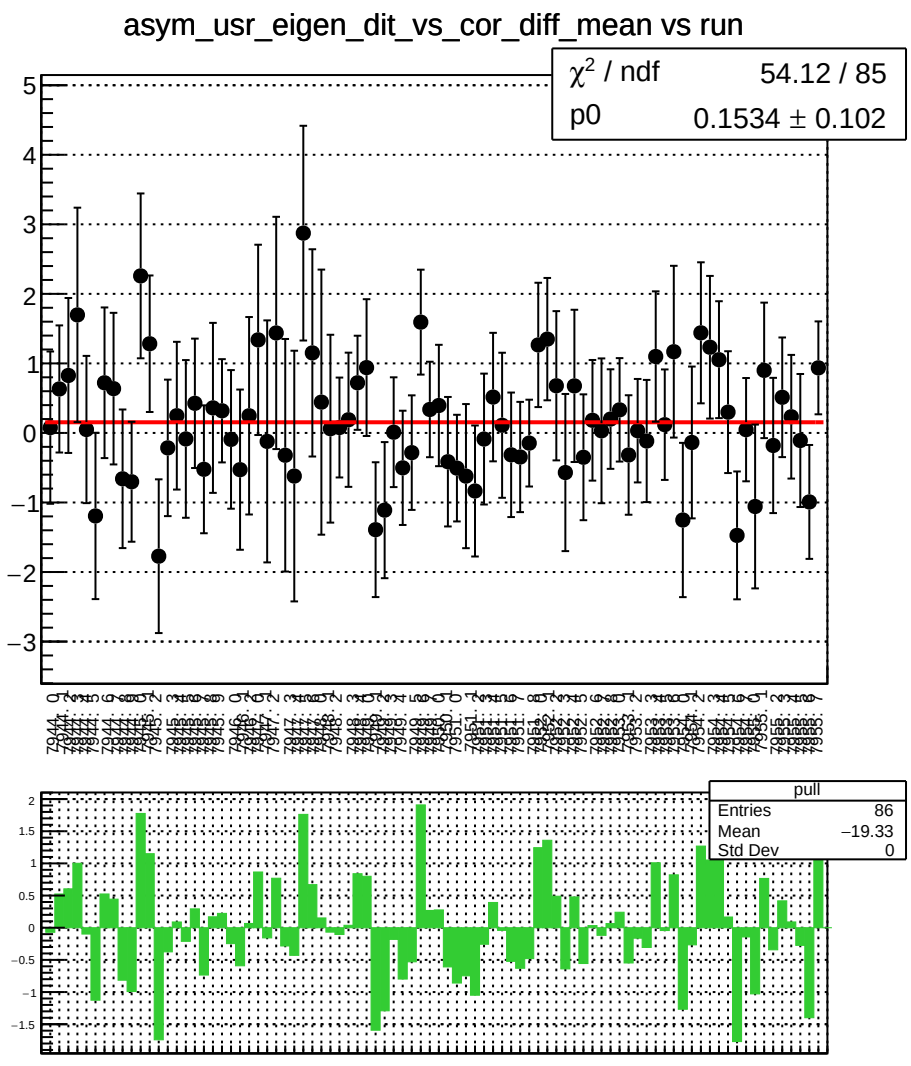

pull1D
Entries 86
Mean 0.01315
Std Dev 0.8034

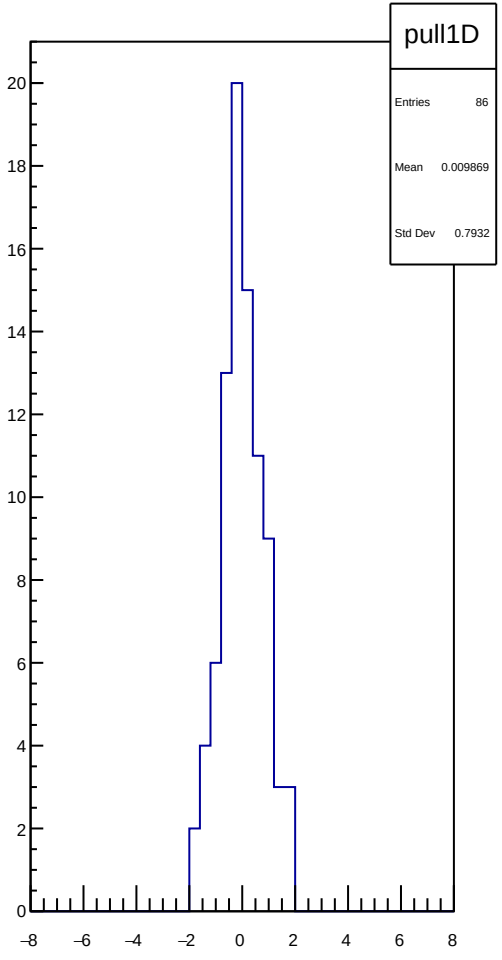

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.844e+04 / 85
p0 101.4 ± 0.08094
180
160
140
120
100
80

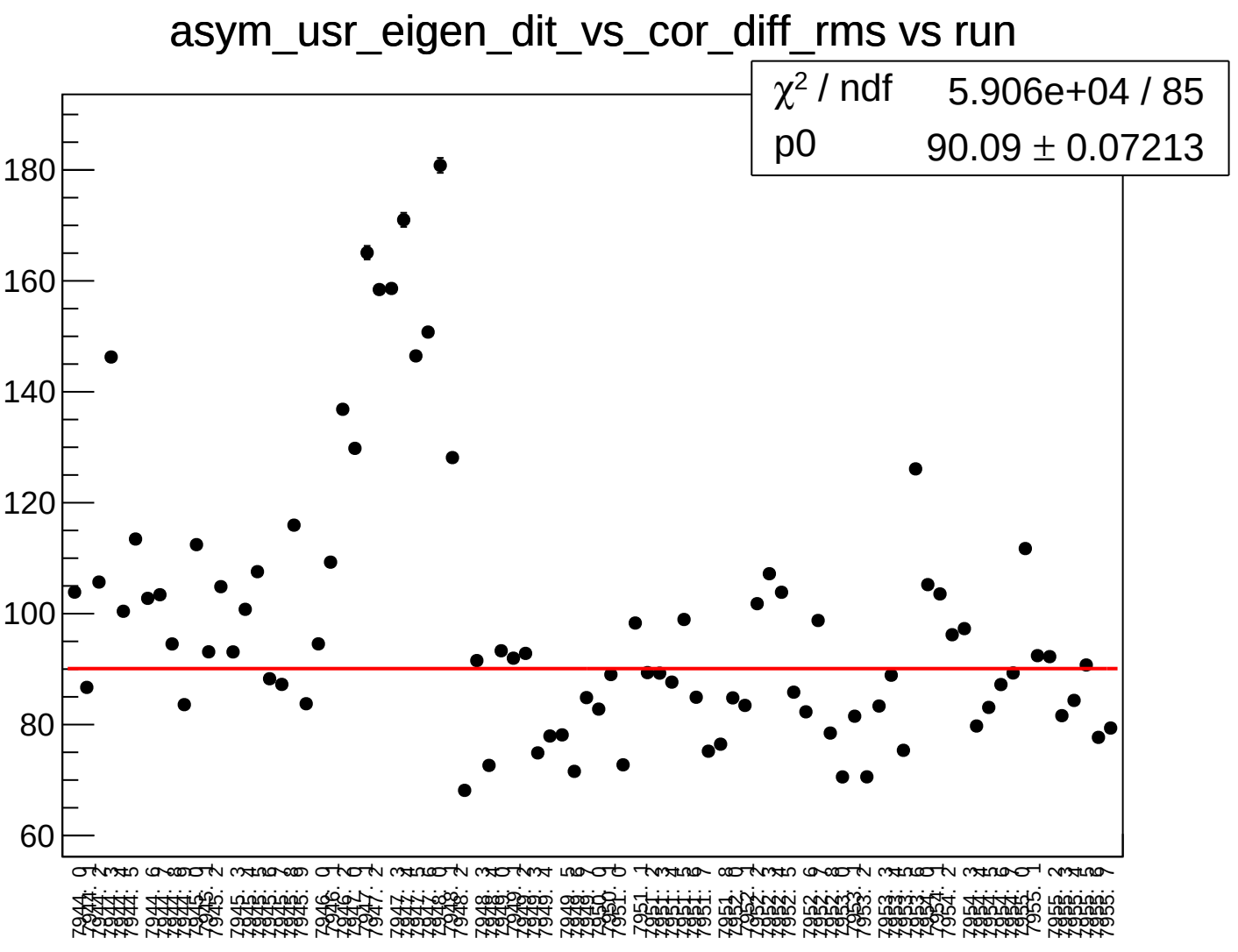

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.81 / 85
p0 −1.326e−06 ± 1.298e−05
pull
Entries 86
Mean −741.4
Std Dev 0

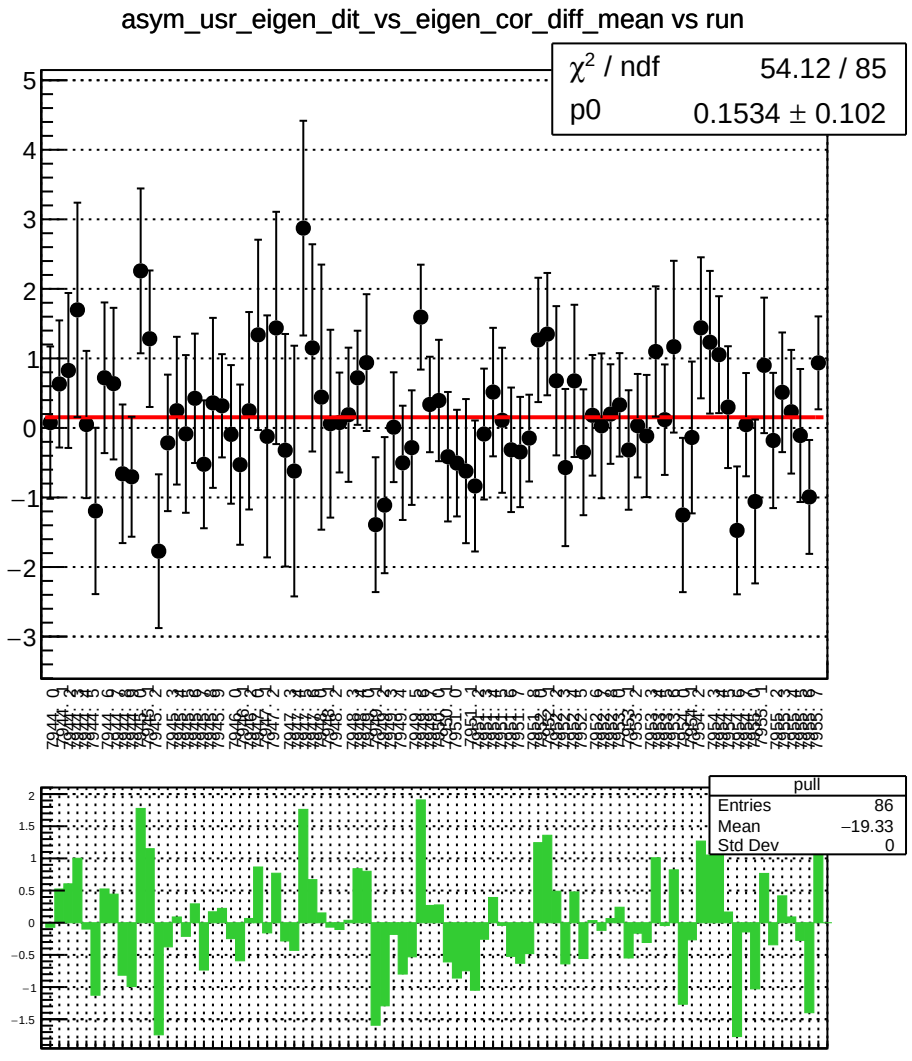

pull1D
Entries 86
Mean 0.003821
Std Dev 1.016

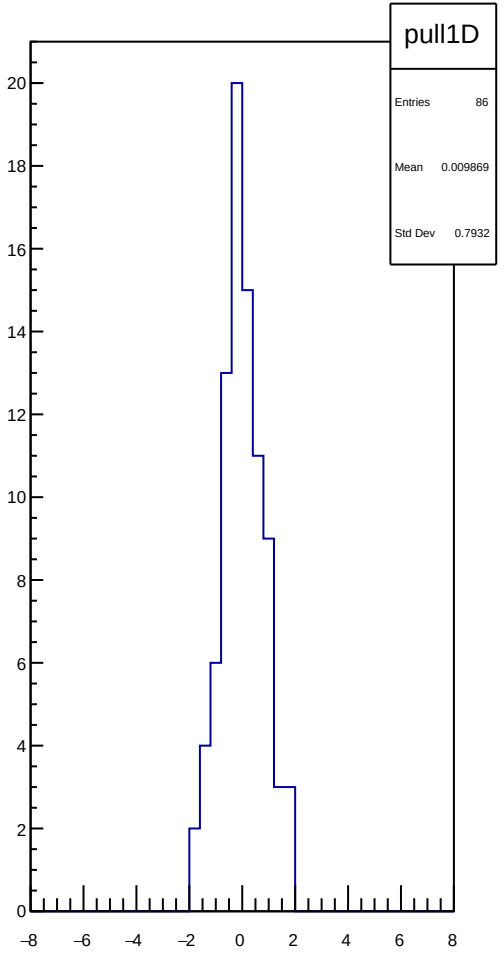

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2675 / 85
p0 0.01167 ± 9.178e–06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

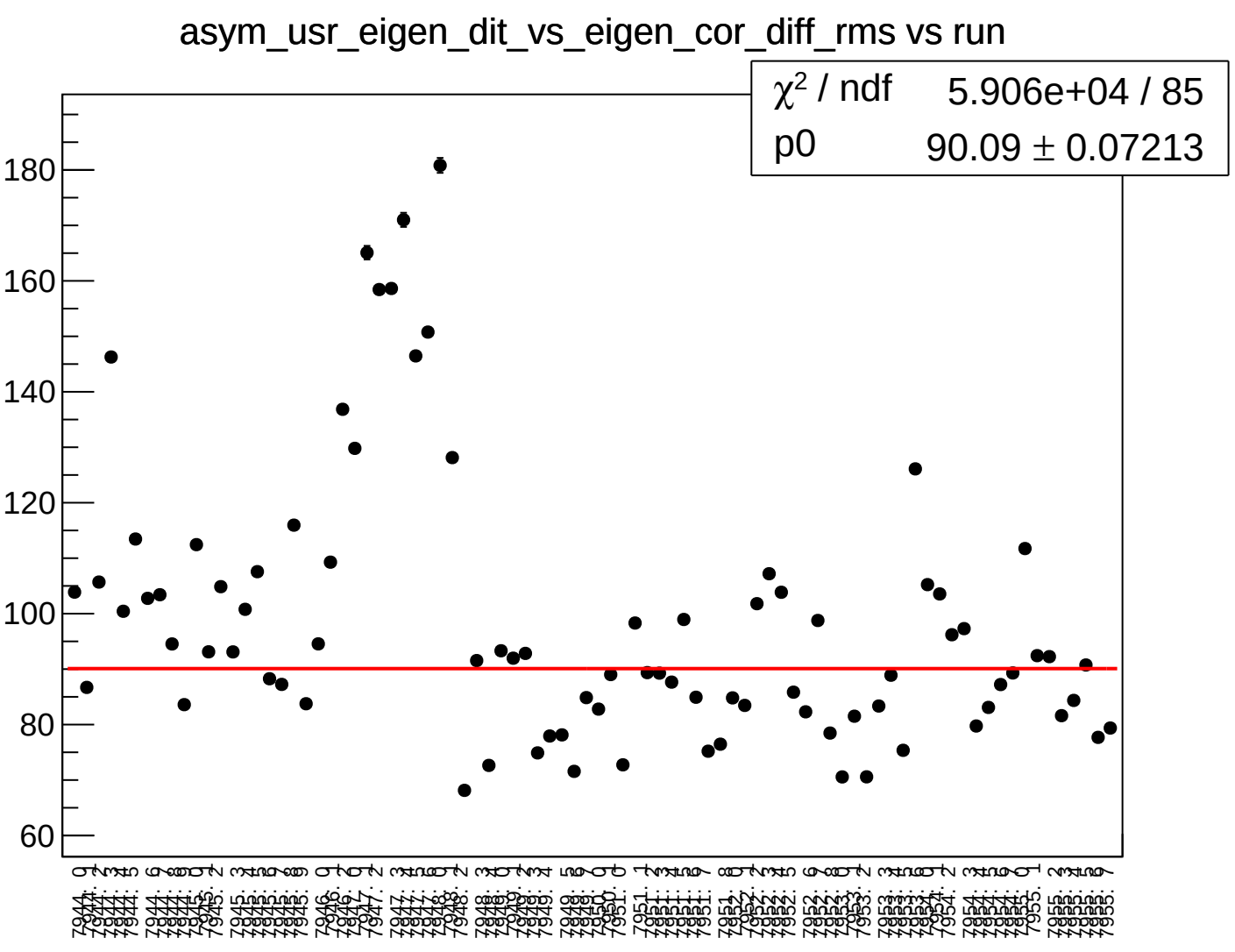

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.12 / 85
p0 0.1534 ± 0.102
pull
Entries 86
Mean −19.33
Std Dev 0

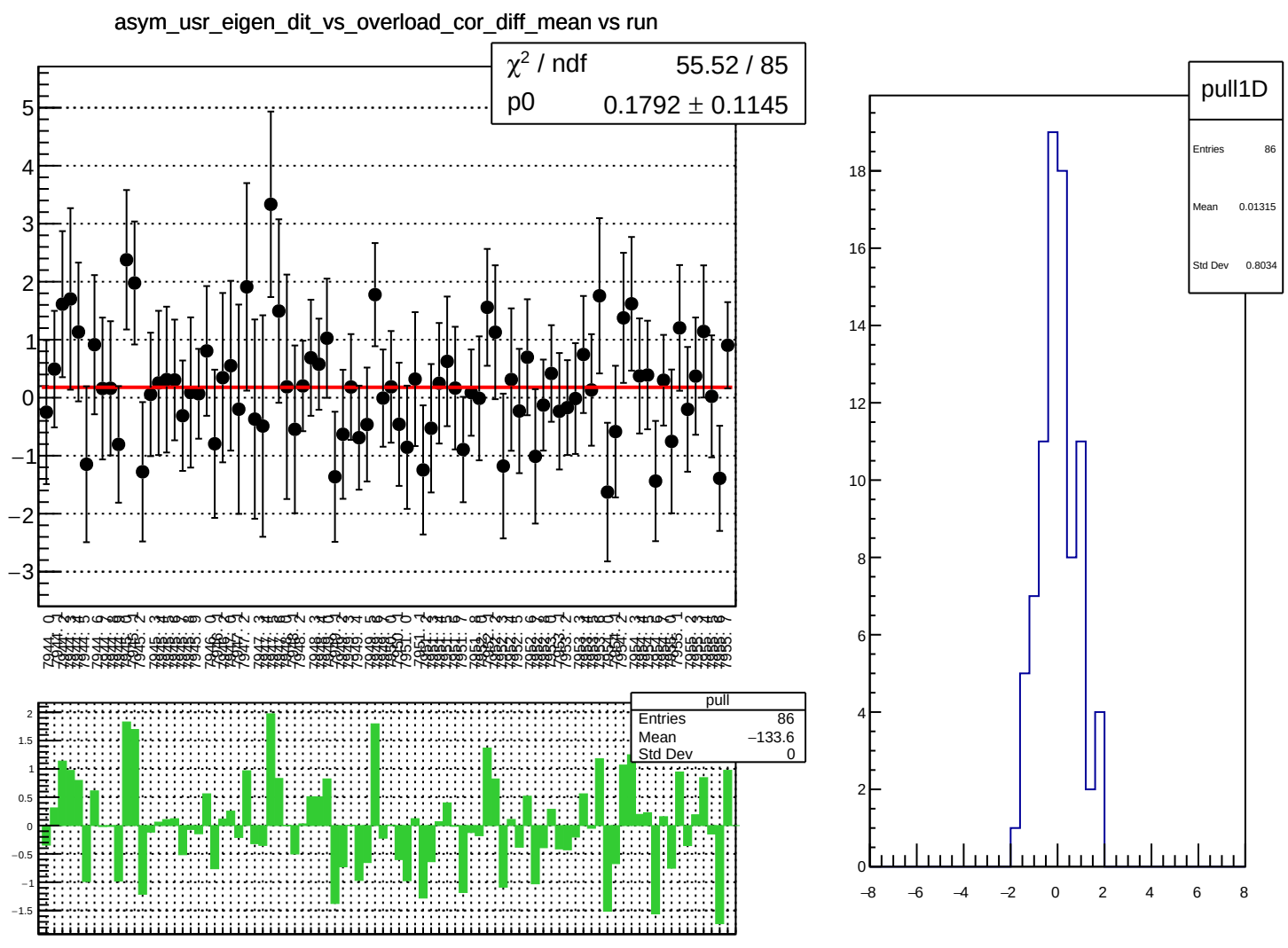

pull1D
Entries 86
Mean 0.009869
Std Dev 0.7932

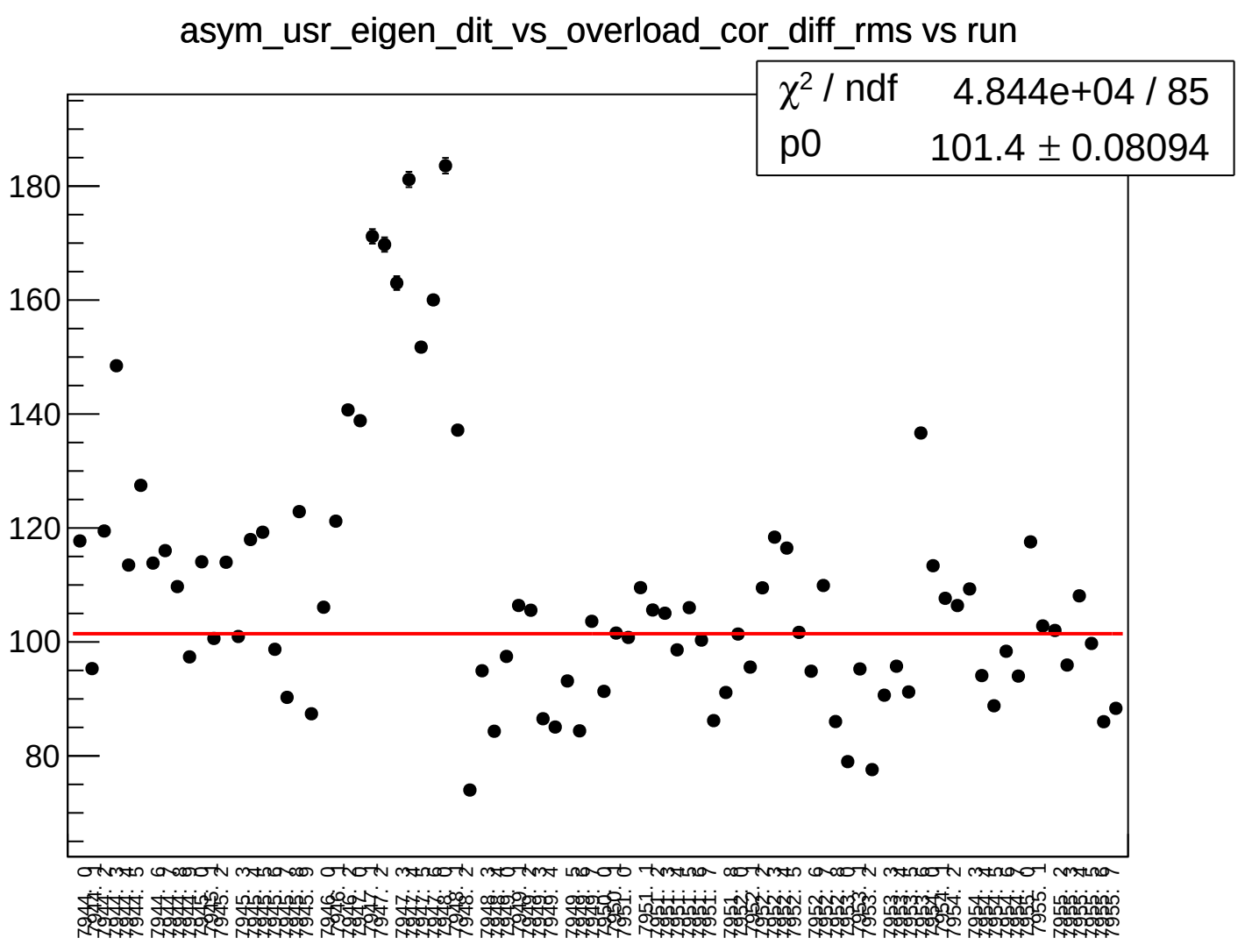

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.906e+04 / 85
p0 90.09 ± 0.07213
180
160
140
120
100
80
60

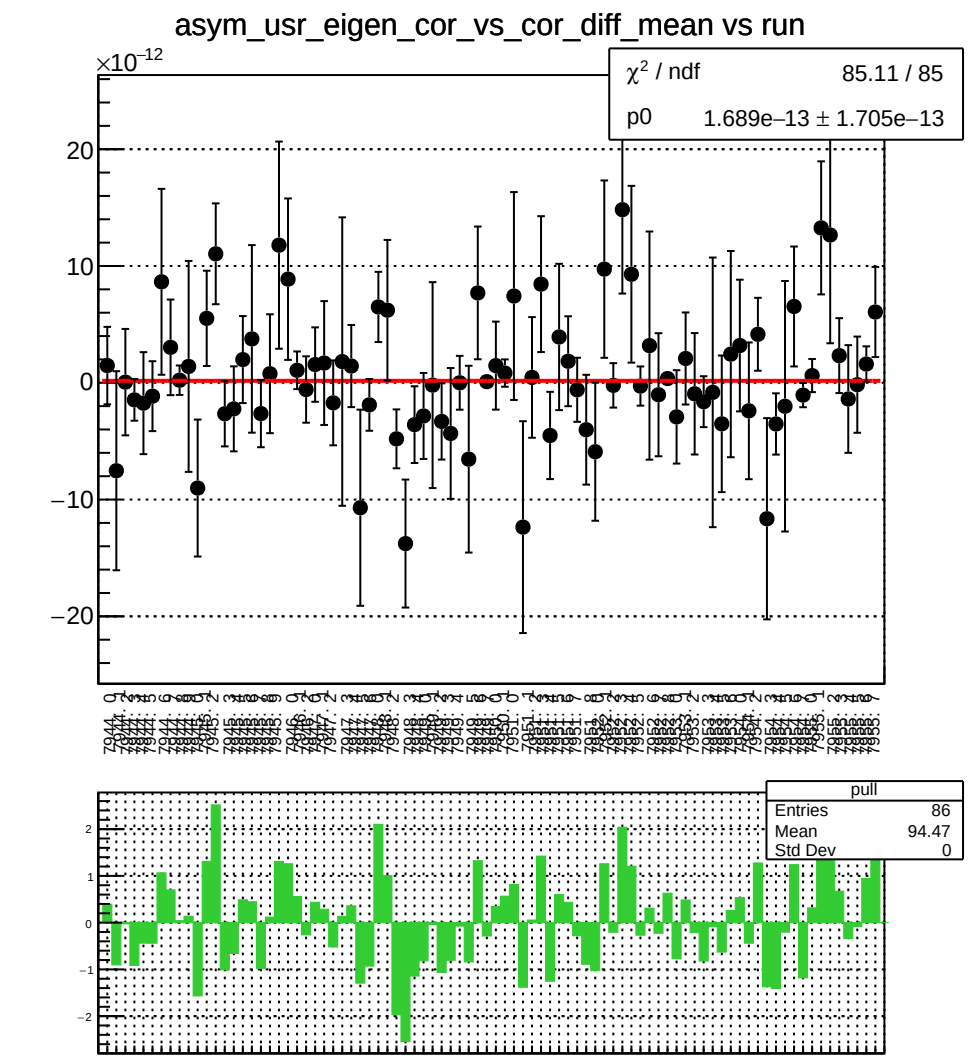

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.12 / 85
p0 0.1534 ± 0.102
pull
Entries 86
Mean −19.33
Std Dev 0

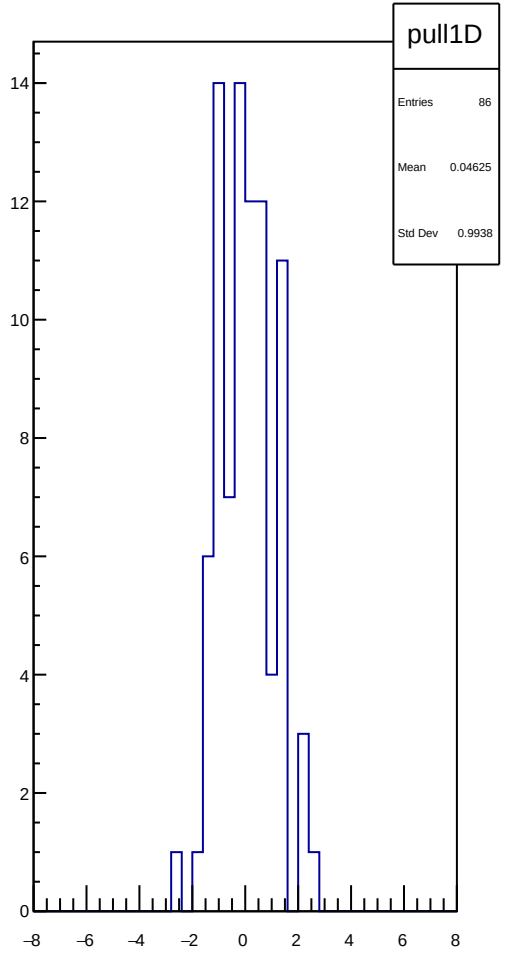

pull1D
Entries 86
Mean 0.009869
Std Dev 0.7932

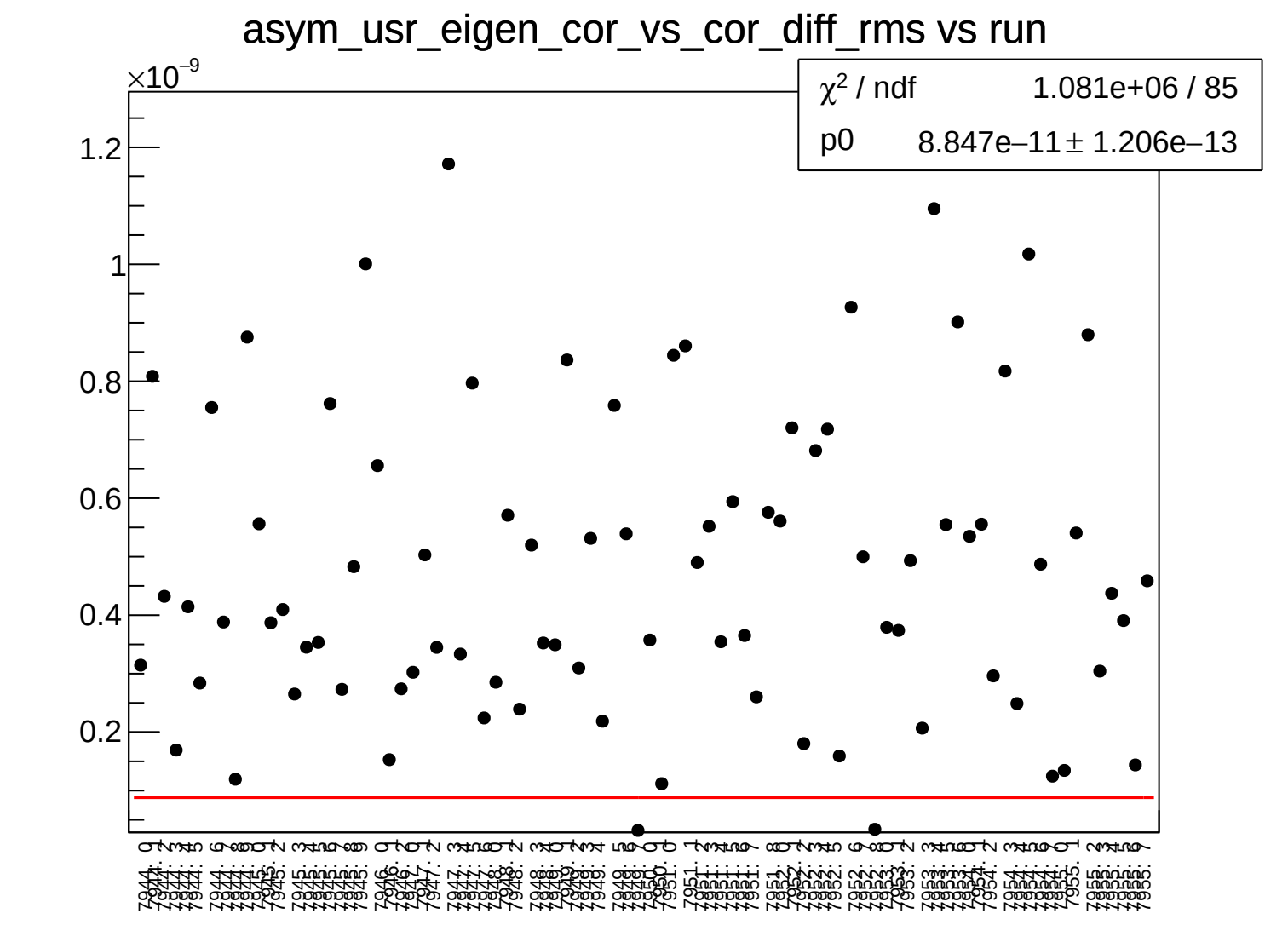

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.906e+04 / 85
p0 90.09 ± 0.07213
180
160
140
120
100
80
60

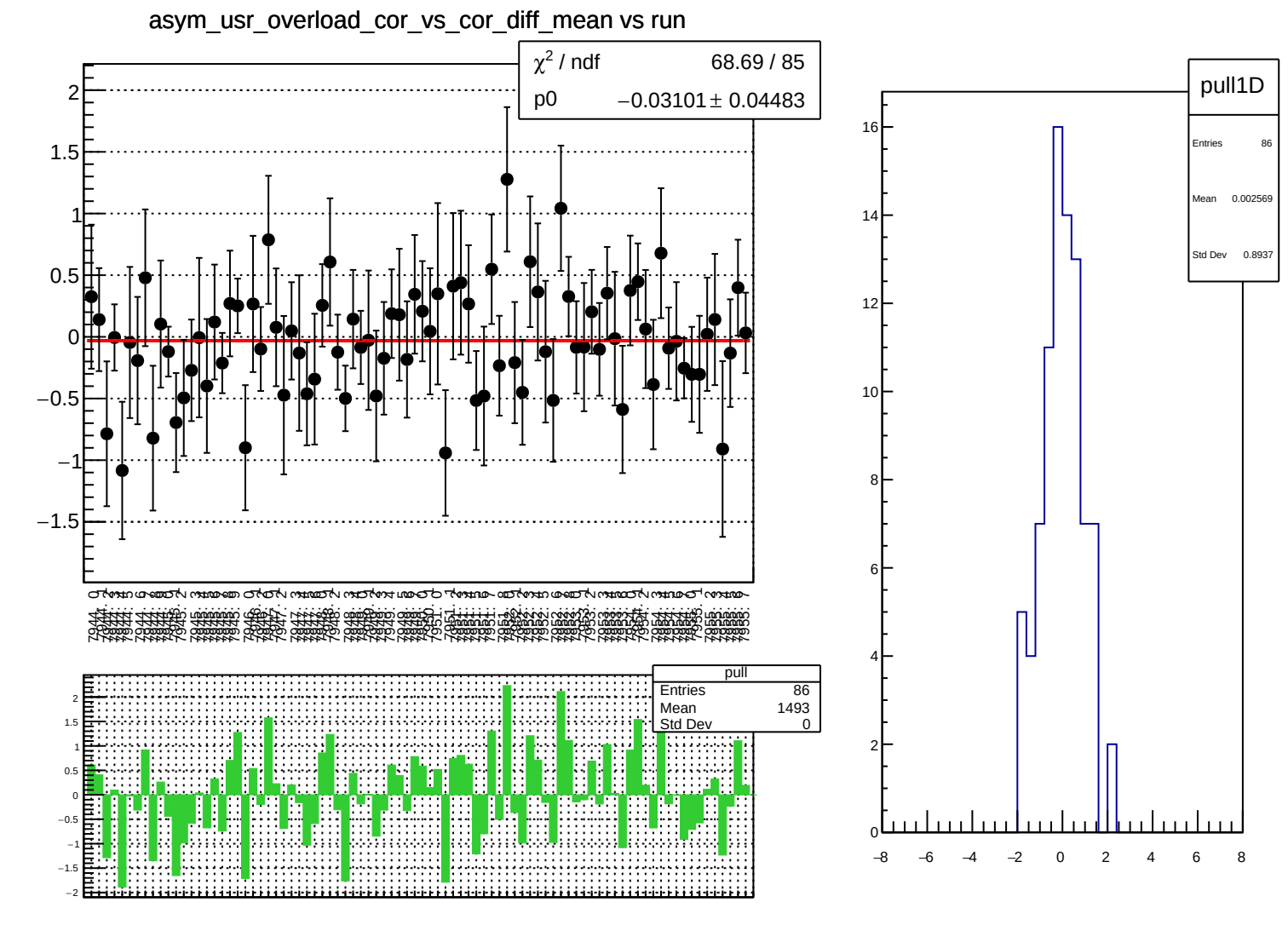

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 55.52 / 85
p0 0.1792 ± 0.1145
pull
Entries 86
Mean −133.6
Std Dev 0
pull1D
Entries 86
Mean 0.01315
Std Dev 0.8034

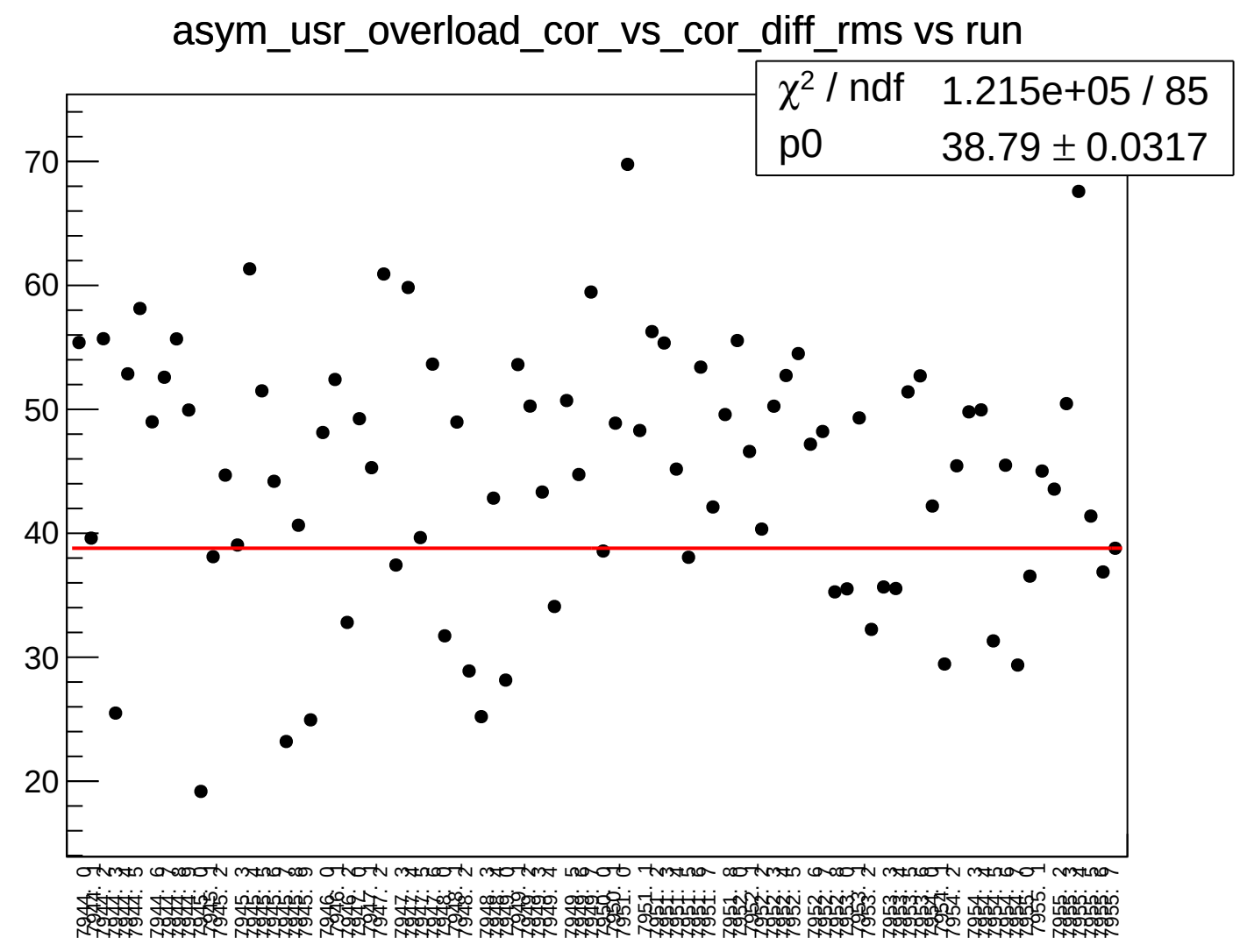

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.844e+04 / 85
p0 101.4 ± 0.08094
180
160
140
120
100
80

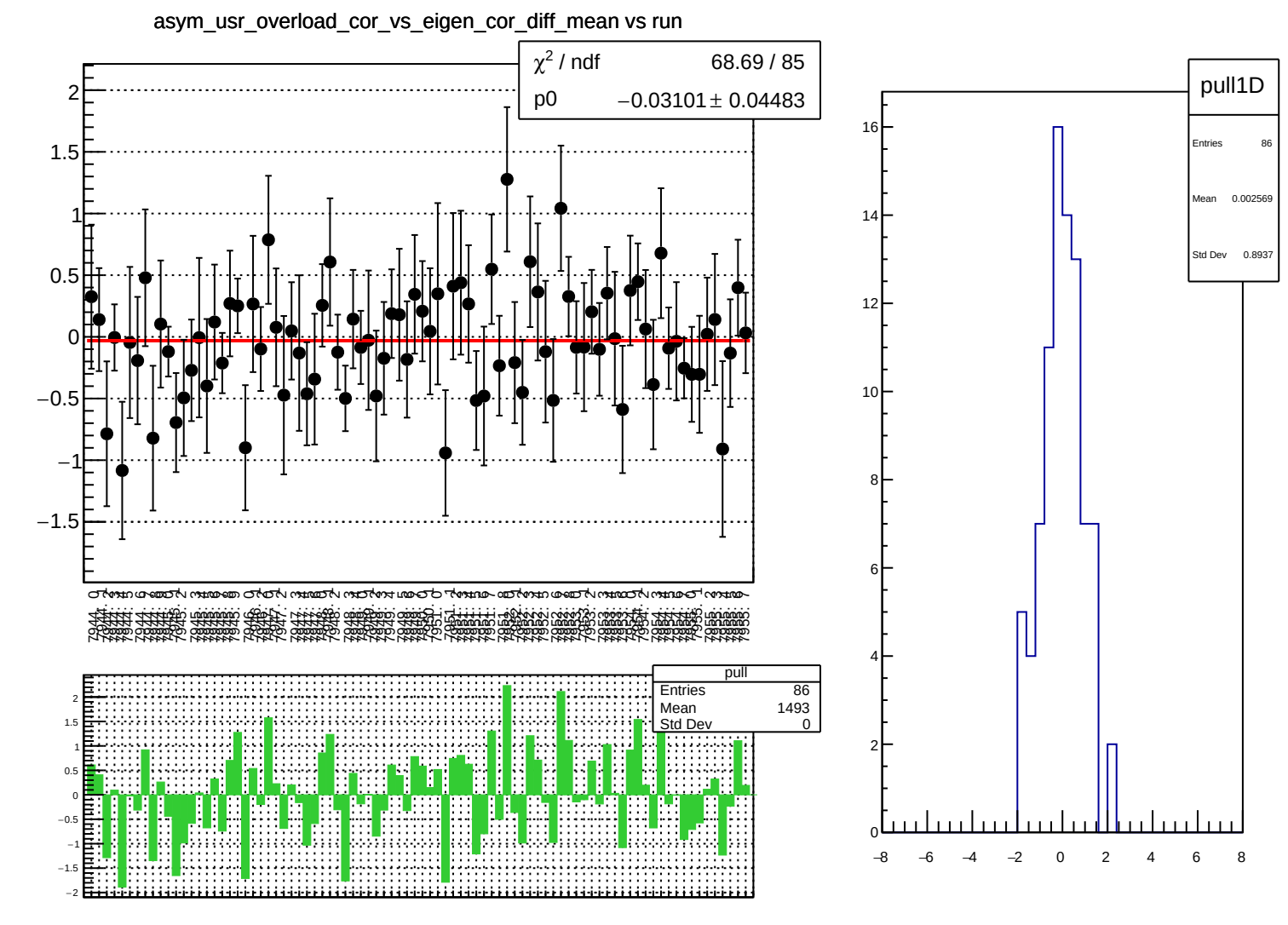

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.11 / 85
p0 1.689e−13 ± 1.705e−13
20
10
0
−10
−20
pull
Entries 86
Mean 94.47
Std Dev 0
2
1
0
−1
−2

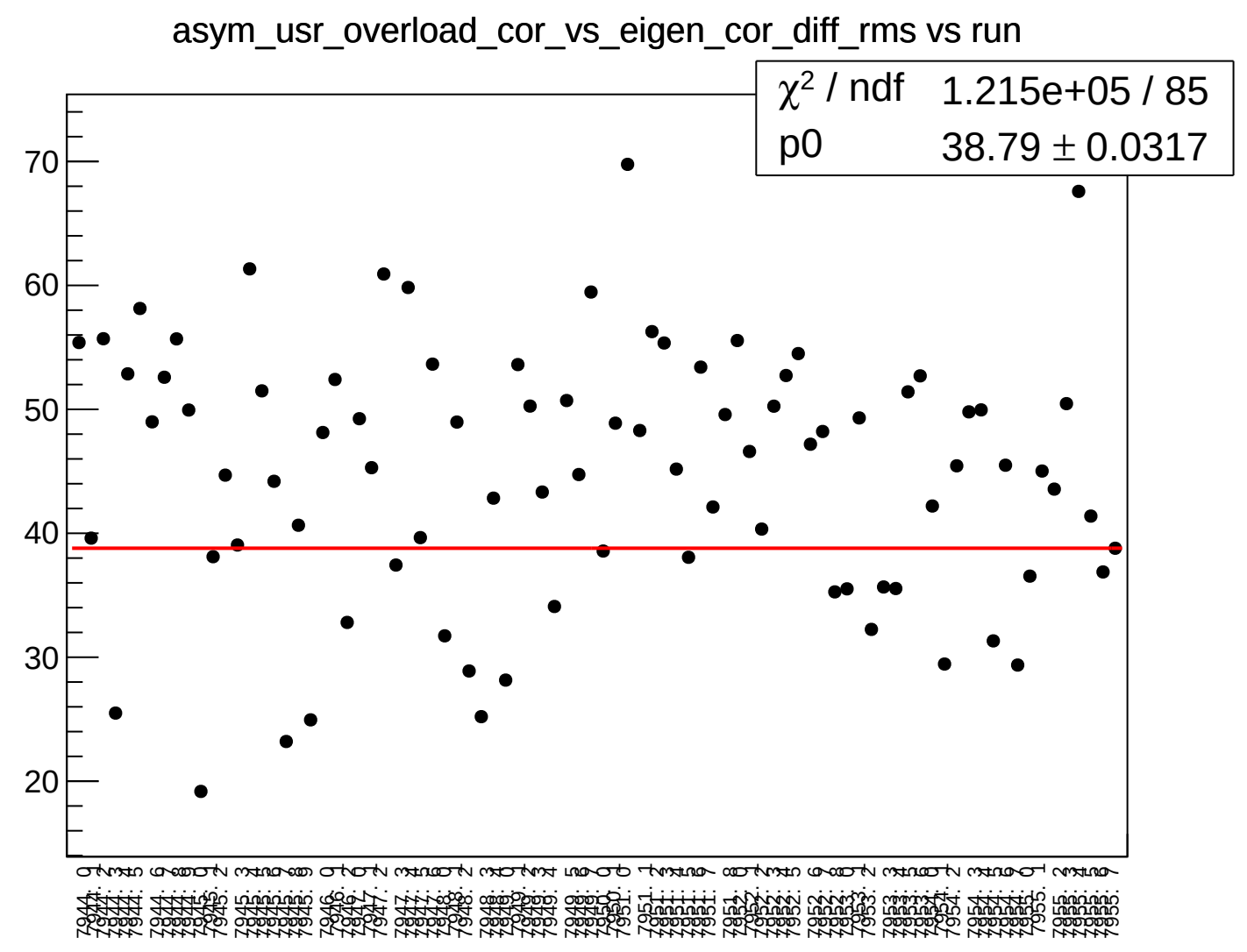

pull1D
Entries 86
Mean 0.04625
Std Dev 0.9938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

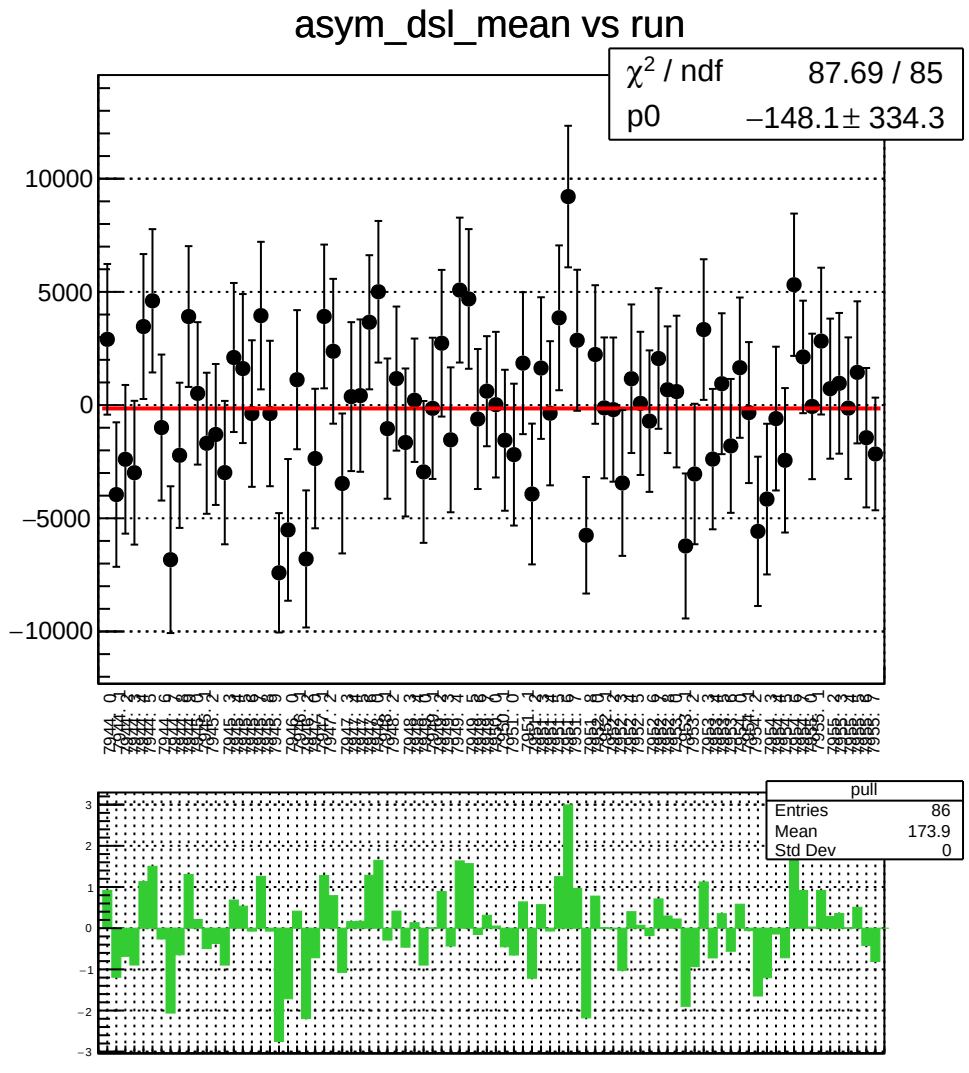

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.081e+06 / 85
p0 8.847e−11 ± 1.206e−13
1.2
1
0.8
0.6
0.4
0.2

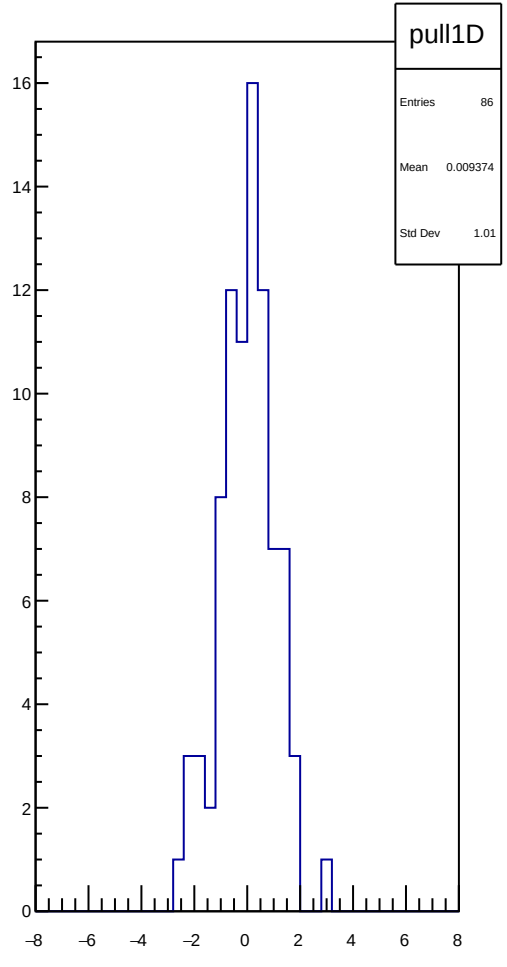

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 68.69 / 85
p0 −0.03101 ± 0.04483
pull
Entries 86
Mean 1493
Std Dev 0
pull1D
Entries 86
Mean 0.002569
Std Dev 0.8937

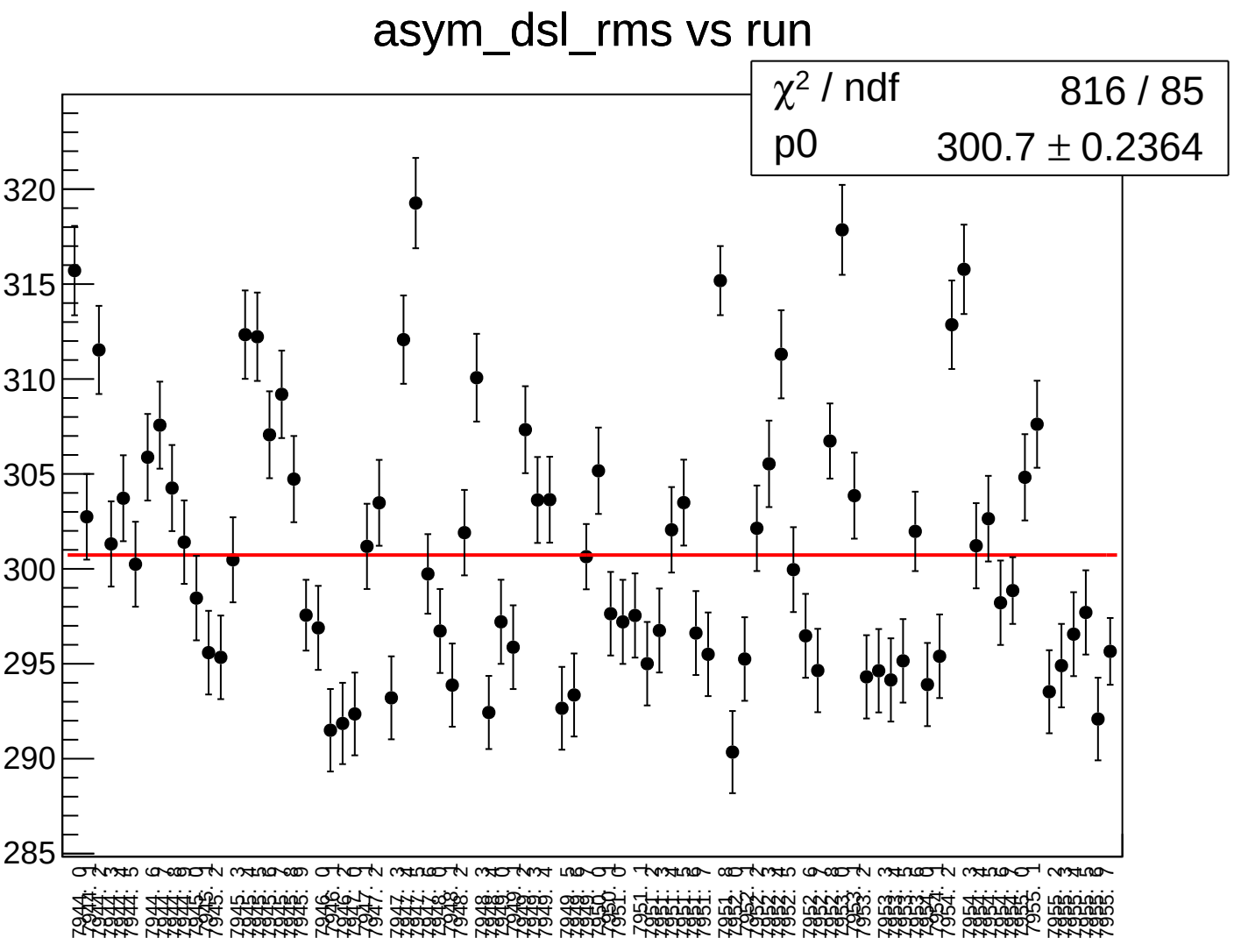

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.215e+05 / 85
p0 38.79 ± 0.0317
70
60
50
40
30
20

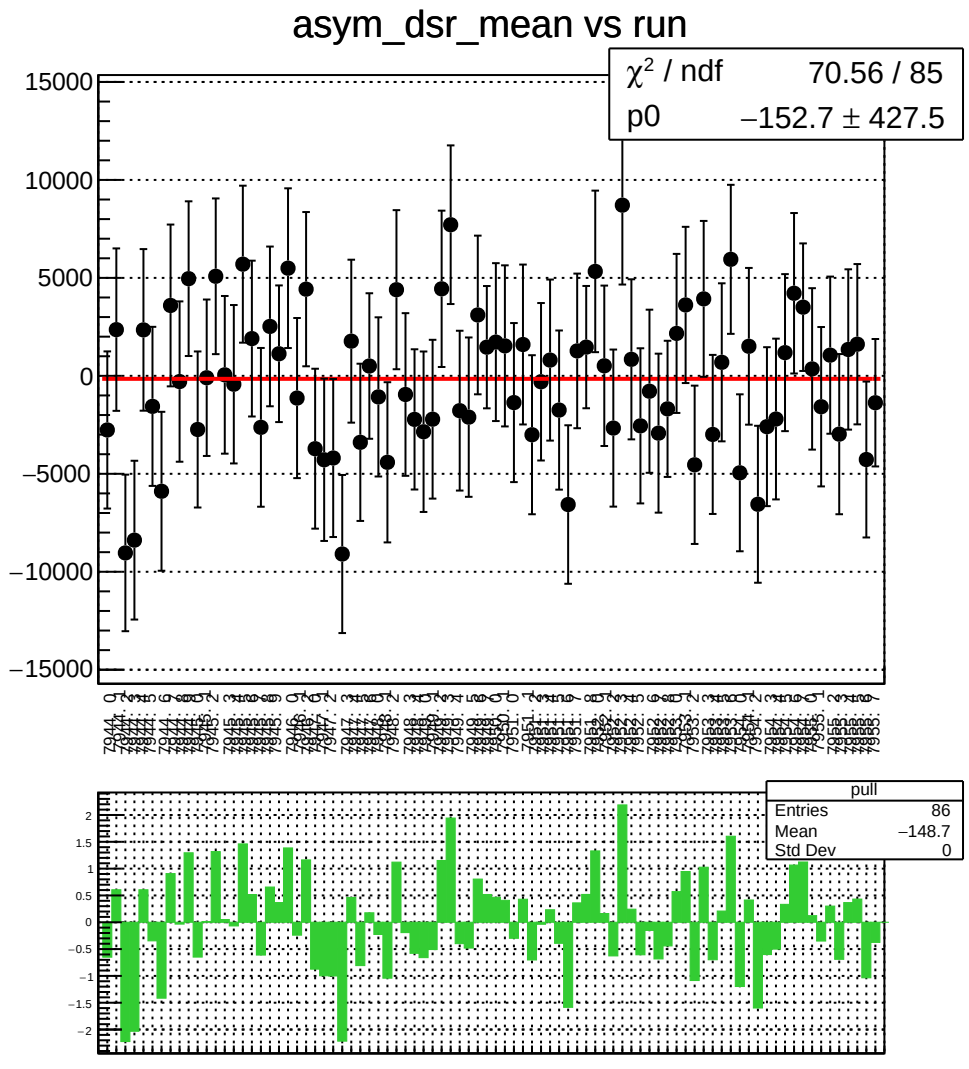

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.69 / 85
p0 −0.03101 ± 0.04483
pull
Entries 86
Mean 1493
Std Dev 0
pull1D
Entries 86
Mean 0.002569
Std Dev 0.8937

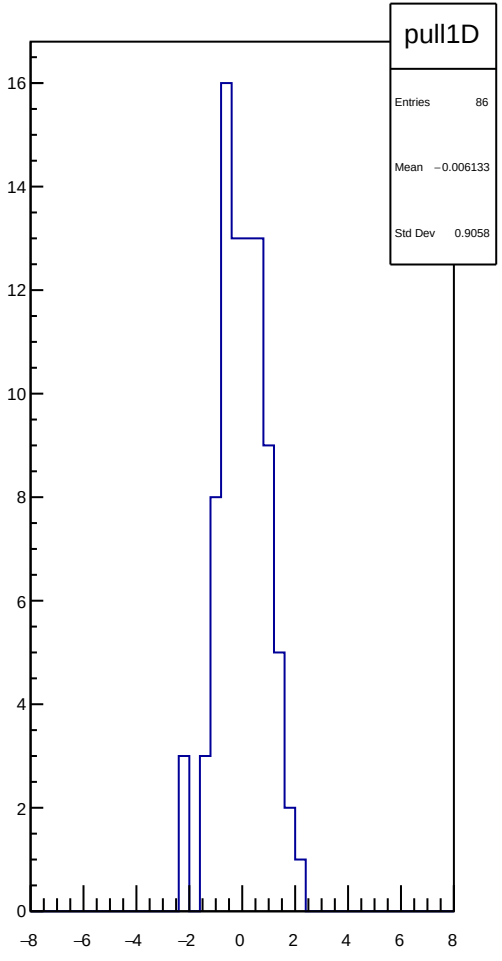

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.215e+05 / 85
p0 38.79 ± 0.0317
70
60
50
40
30
20

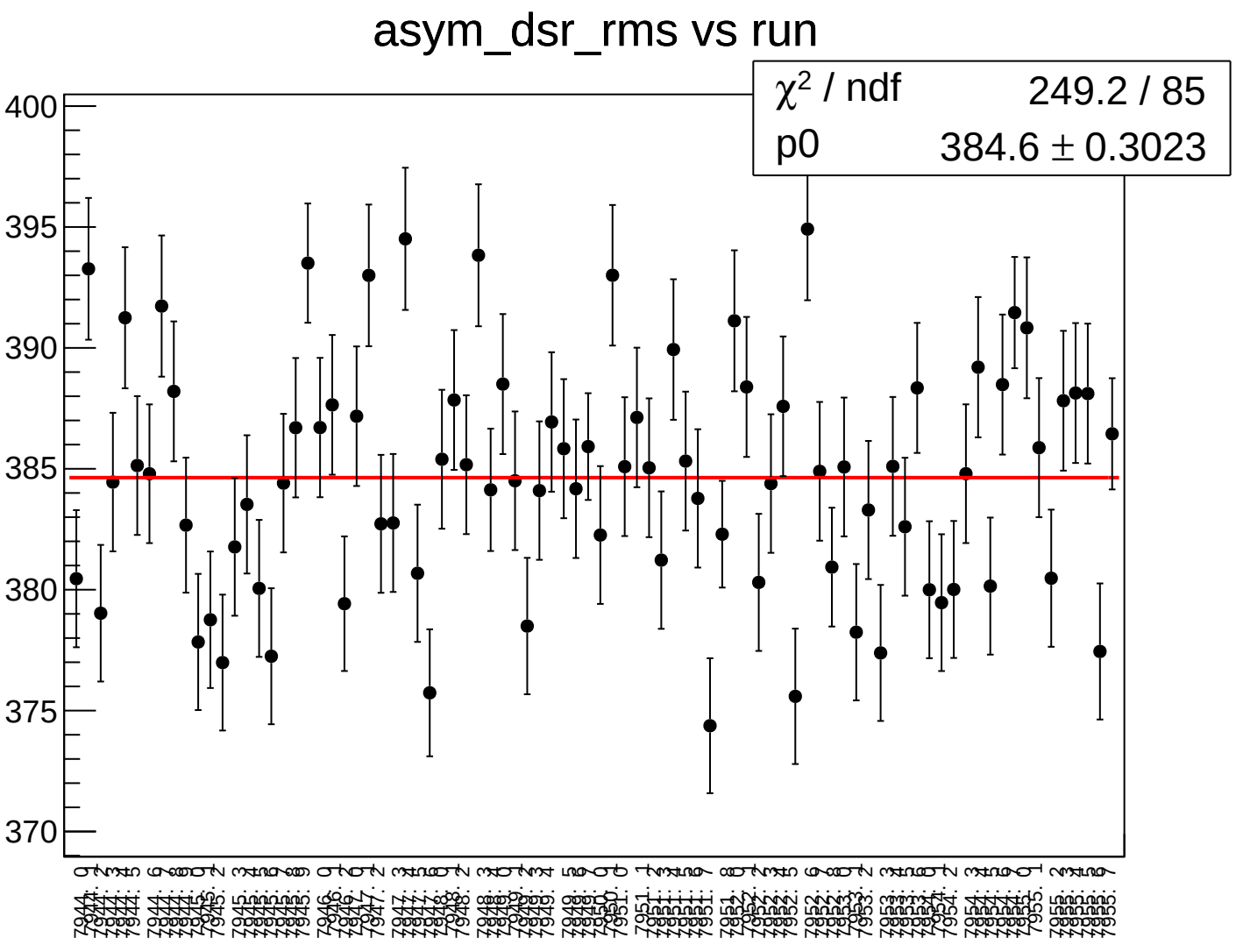

asym_dsl_mean vs run
χ² / ndf 87.69 / 85
p0 −148.1± 334.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 173.9
Std Dev 0
3
2
1
0
−1
−2
−3

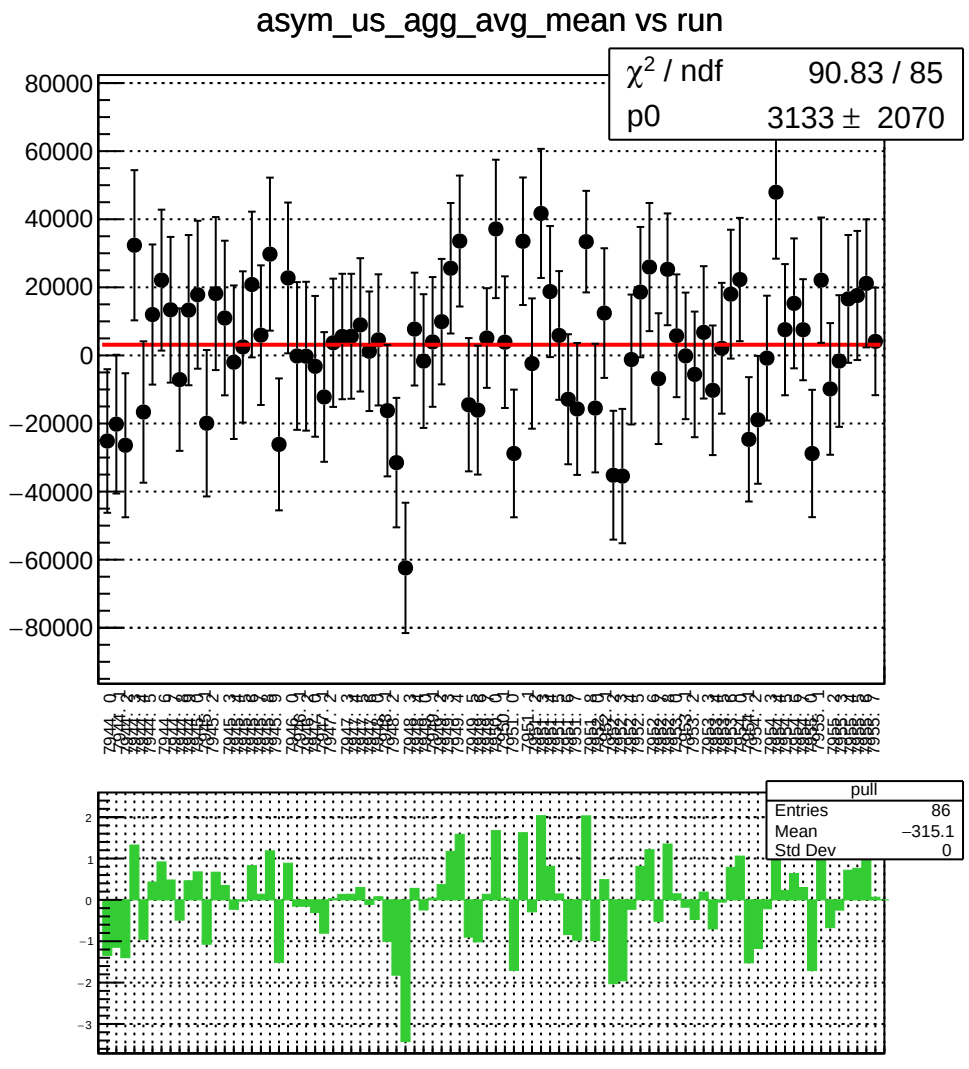

pull1D
Entries 86
Mean 0.009374
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

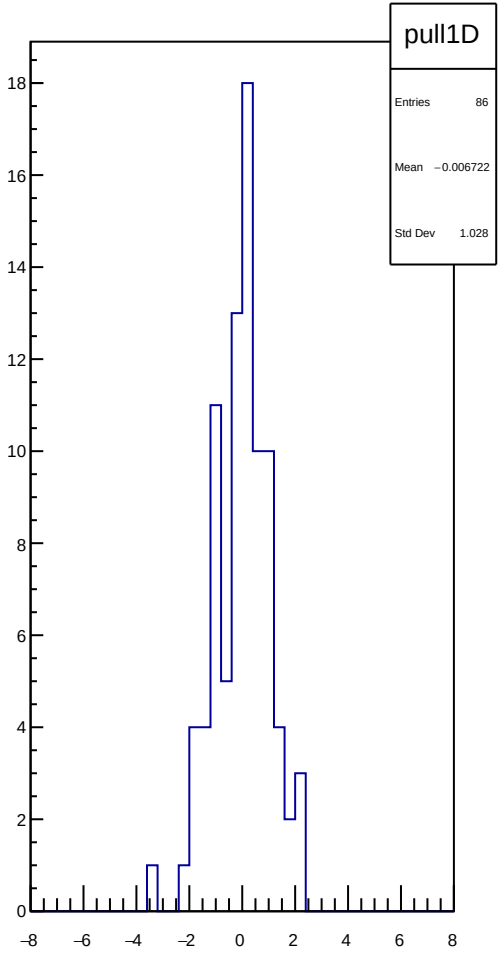

asym_dsl_rms vs run
χ² / ndf 816 / 85
p0 300.7 ± 0.2364
320
315
310
305
300
295
290
285

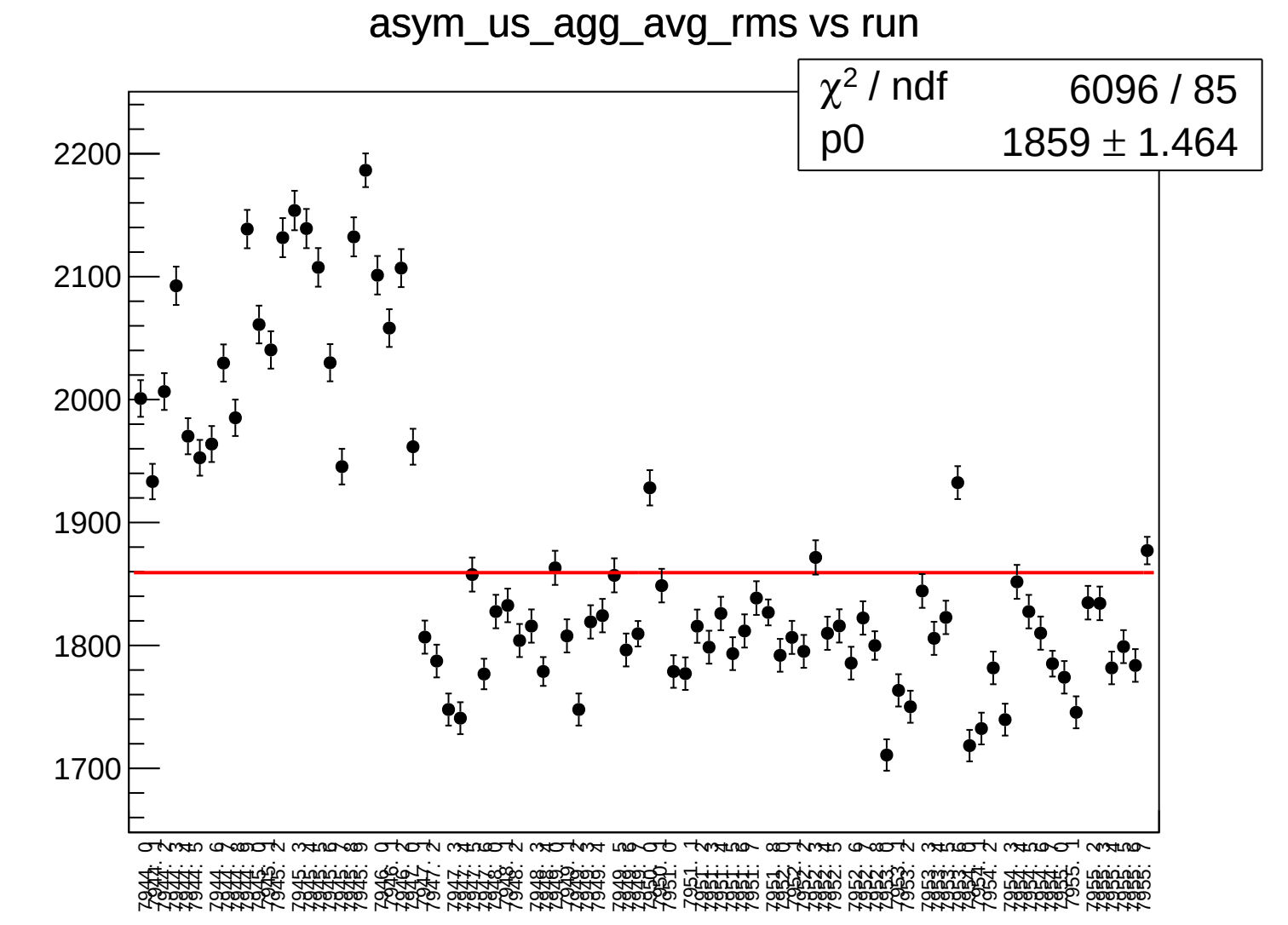

asym_dsr_mean vs run
χ² / ndf 70.56 / 85
p0 −152.7 ± 427.5
pull
Entries 86
Mean −148.7
Std Dev 0

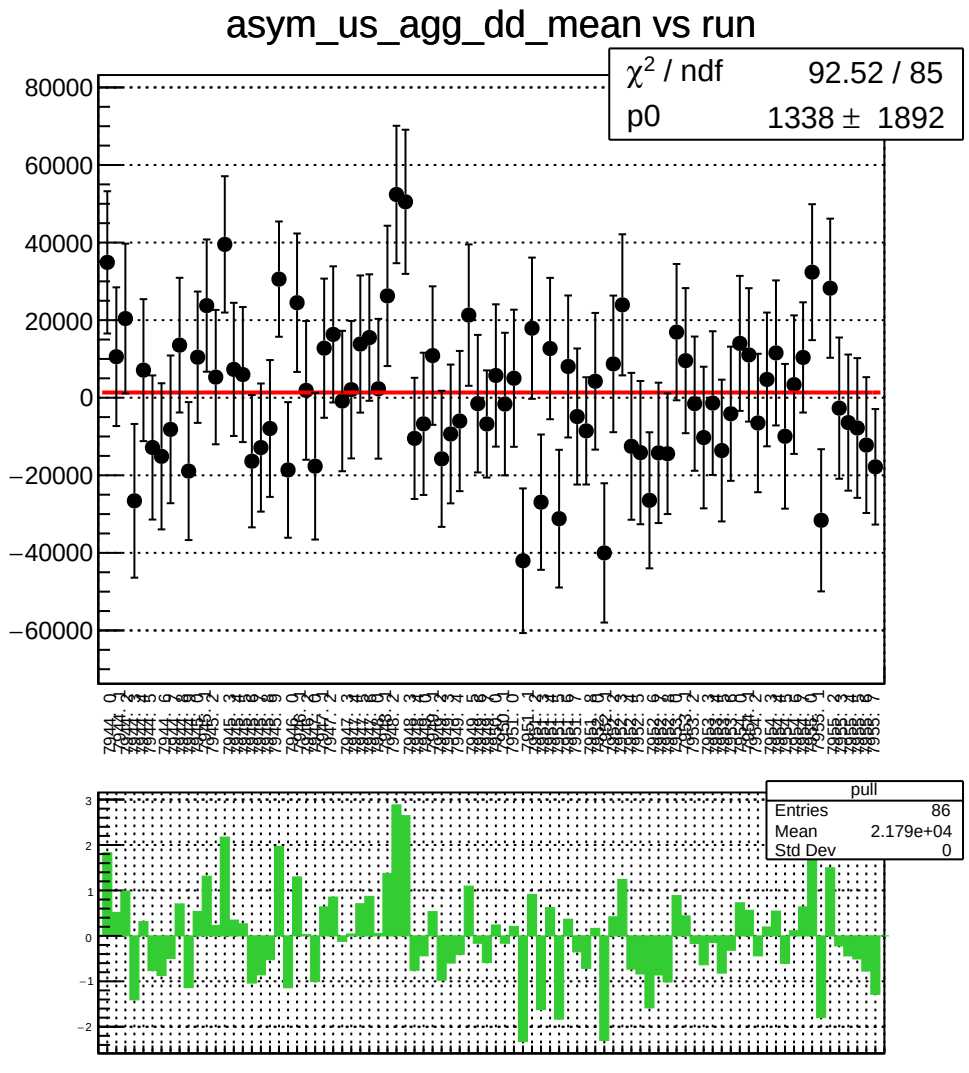

pull1D
Entries 86
Mean −0.006133
Std Dev 0.9058

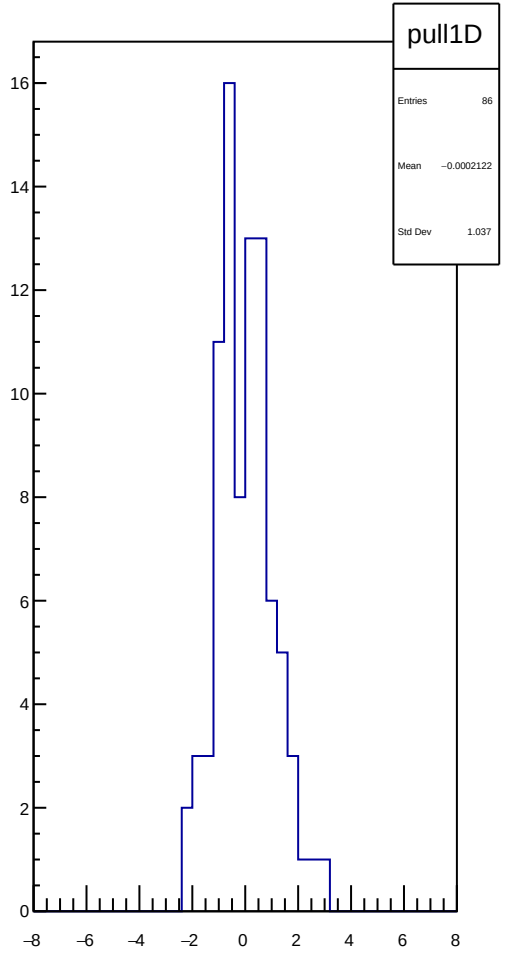

asym_dsr_rms vs run
χ² / ndf 249.2 / 85
p0 384.6 ± 0.3023
400
395
390
385
380
375
370

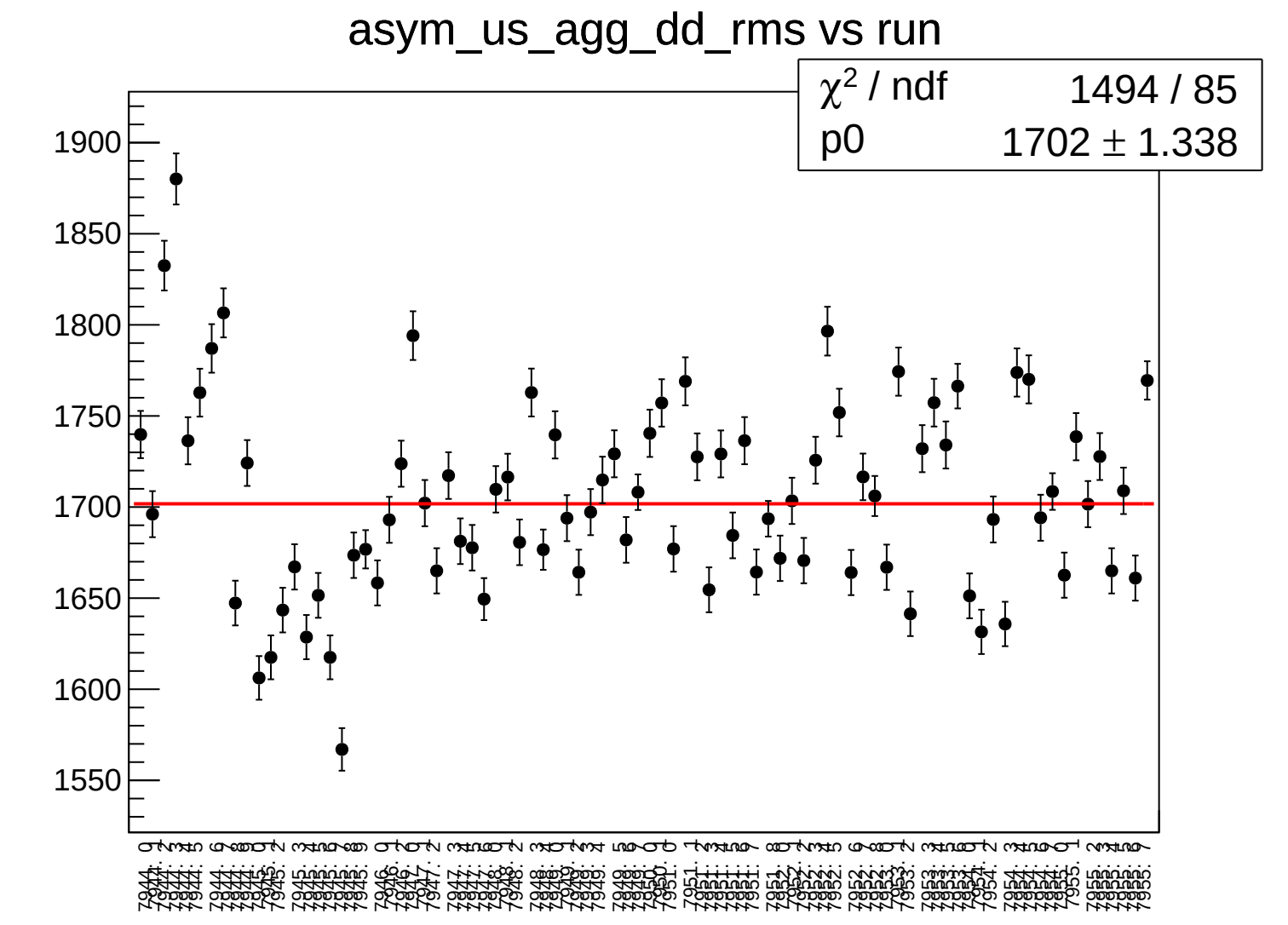

asym_us_agg_avg_mean vs run
χ² / ndf 90.83 / 85
p0 3133 ± 2070
pull
Entries 86
Mean −315.1
Std Dev 0

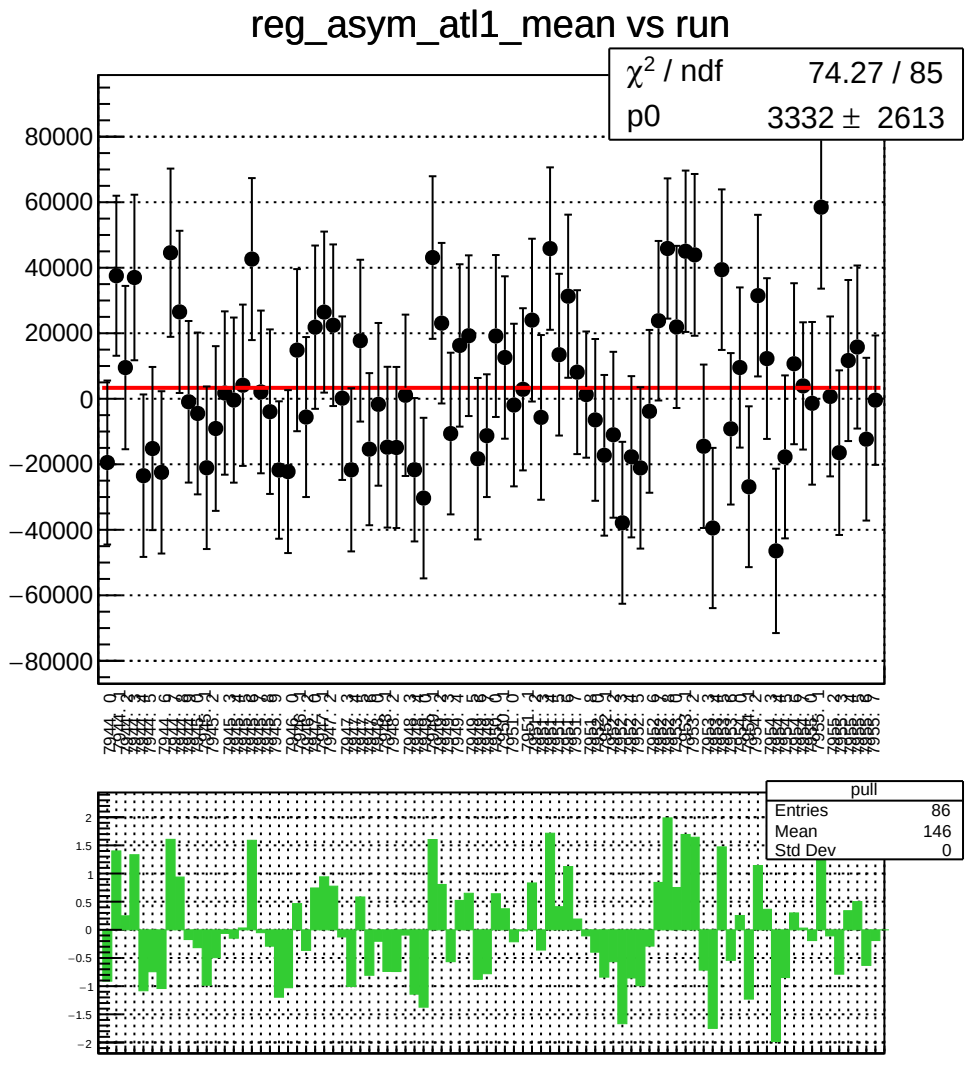

pull1D
Entries 86
Mean −0.006722
Std Dev 1.028

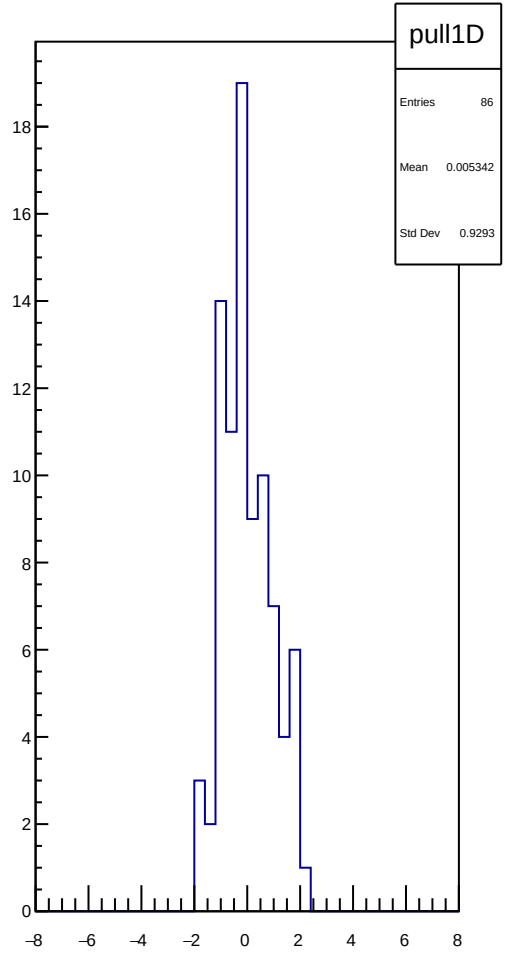

asym_us_agg_avg_rms vs run
χ^2 / ndf 6096 / 85
p0 1859 ± 1.464
2200
2100
2000
1900
1800
1700

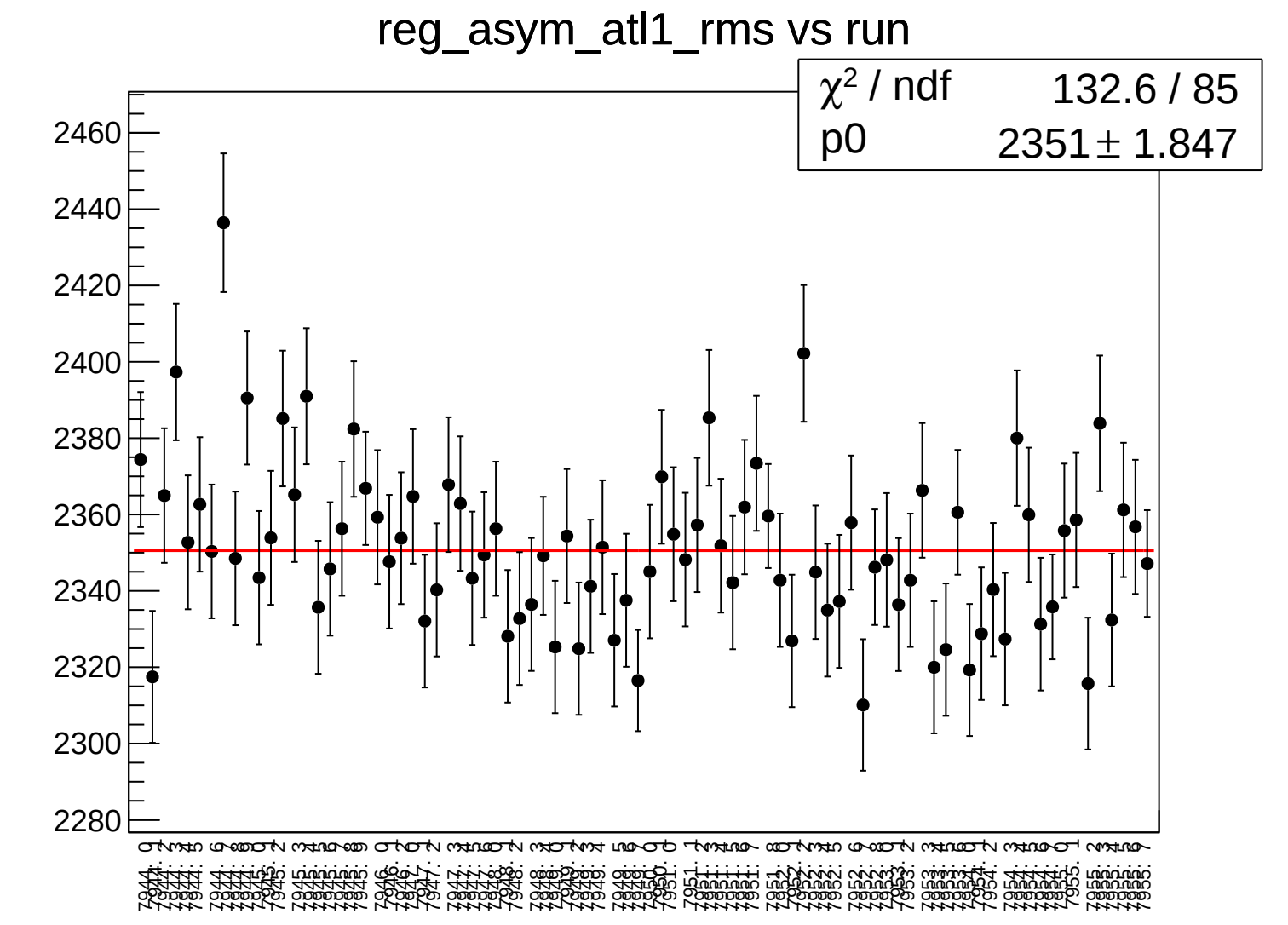

asym_us_agg_dd_mean vs run
χ² / ndf 92.52 / 85
p0 1338 ± 1892
pull
Entries 86
Mean 2.179e+04
Std Dev 0

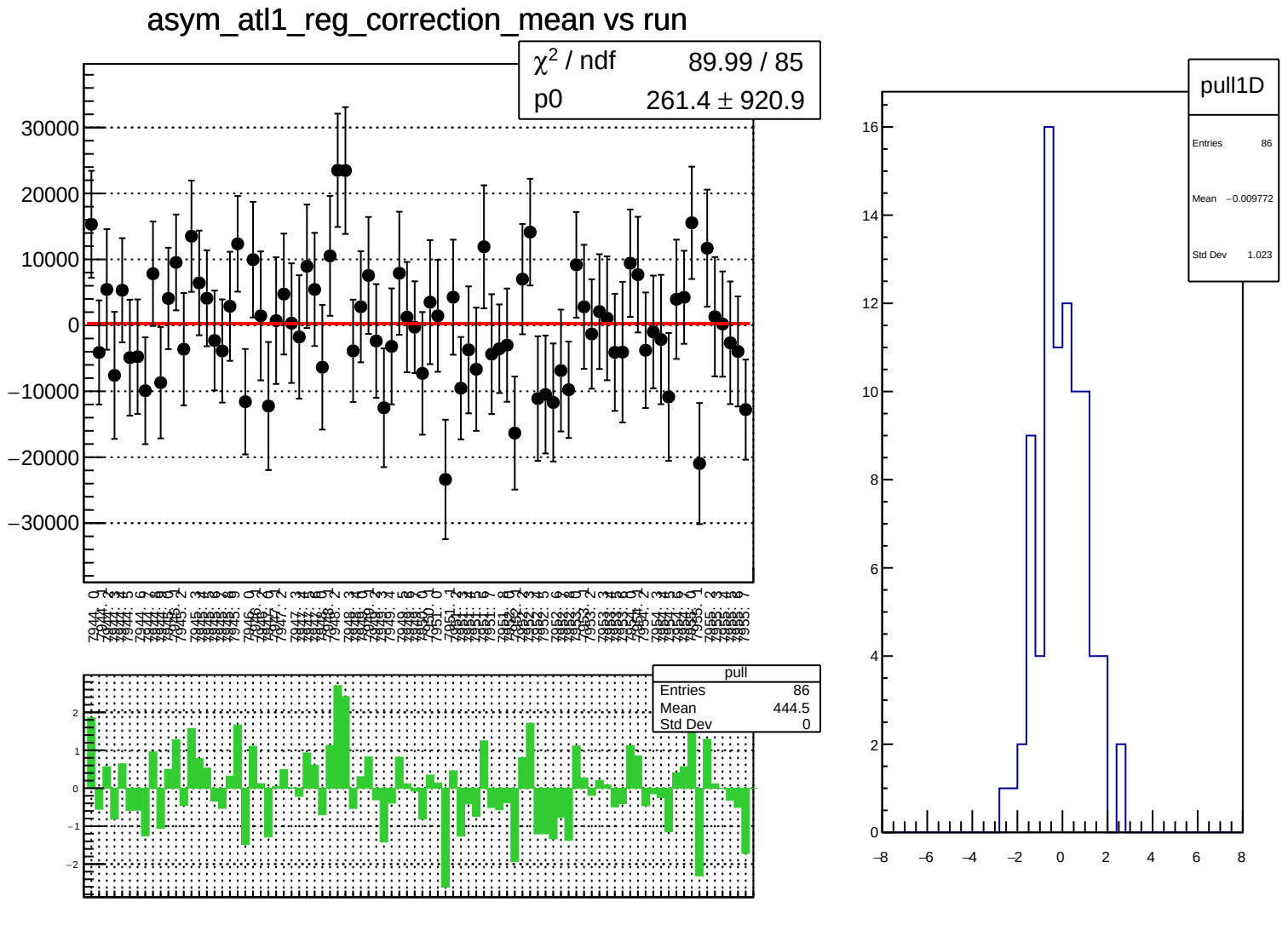

pull1D
Entries 86
Mean −0.0002122
Std Dev 1.037

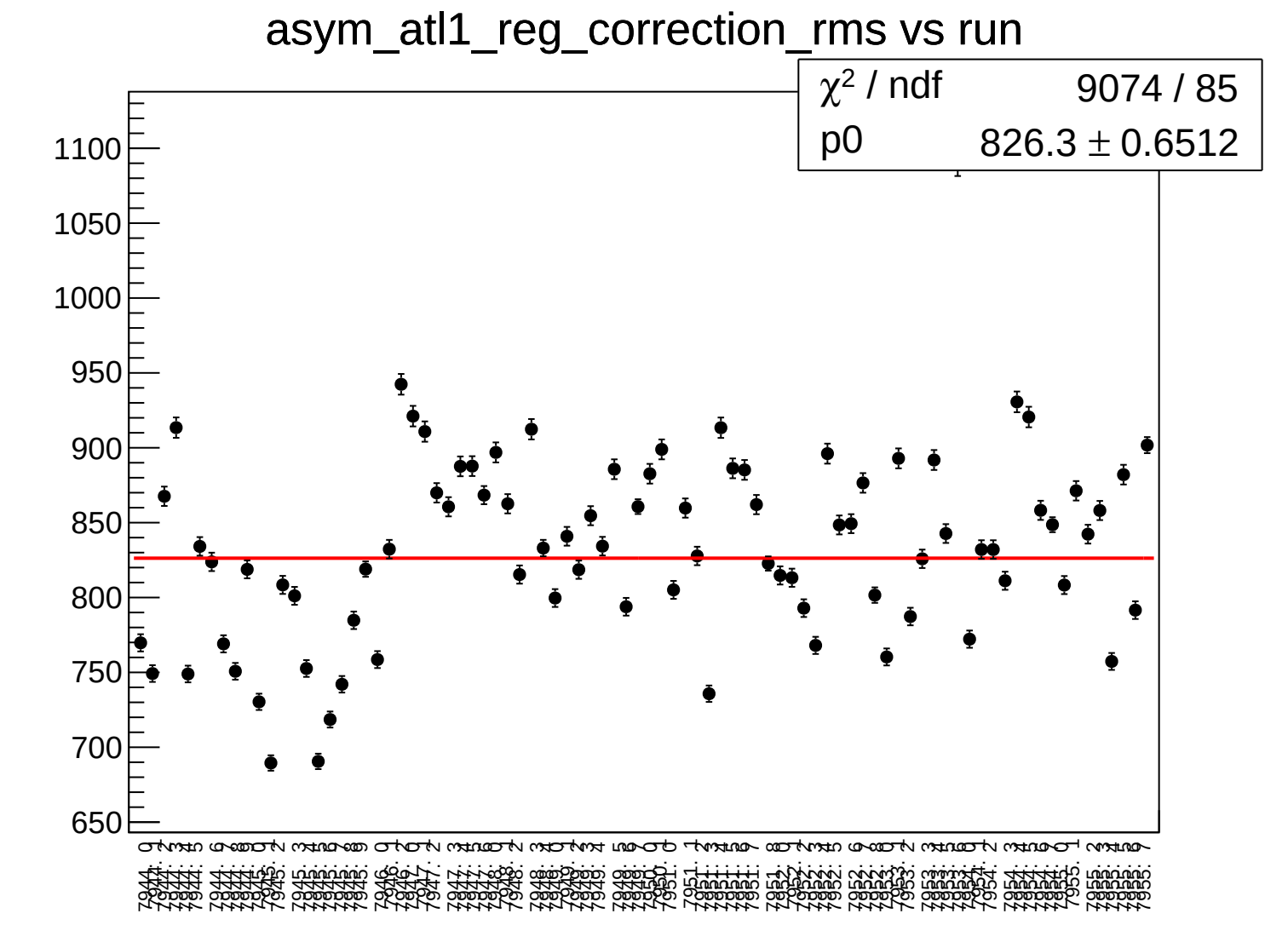

asym_us_agg_dd_rms vs run
χ² / ndf 1494 / 85
p0 1702 ± 1.338
1900
1850
1800
1750
1700
1650
1600
1550

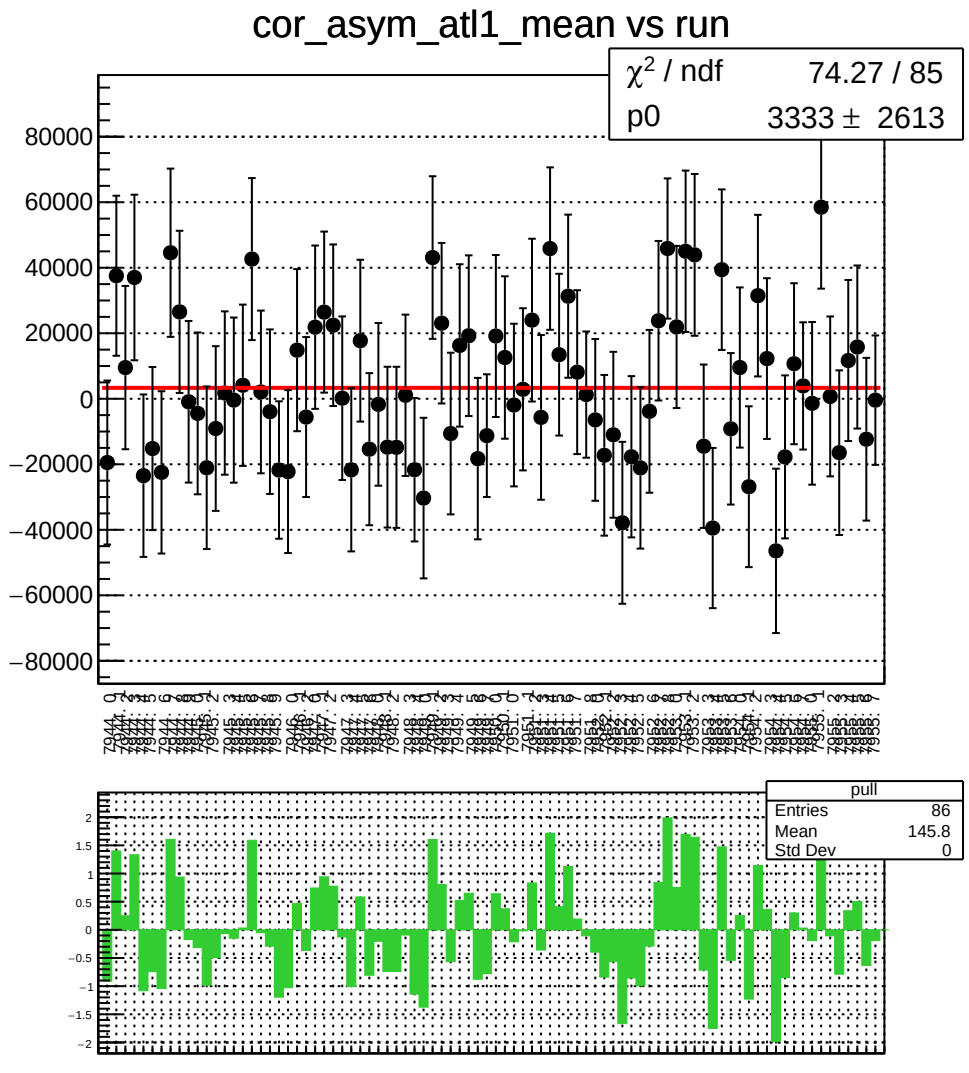

reg_asym_atl1_mean vs run
χ² / ndf 74.27 / 85
p0 3332 ± 2613
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 146
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

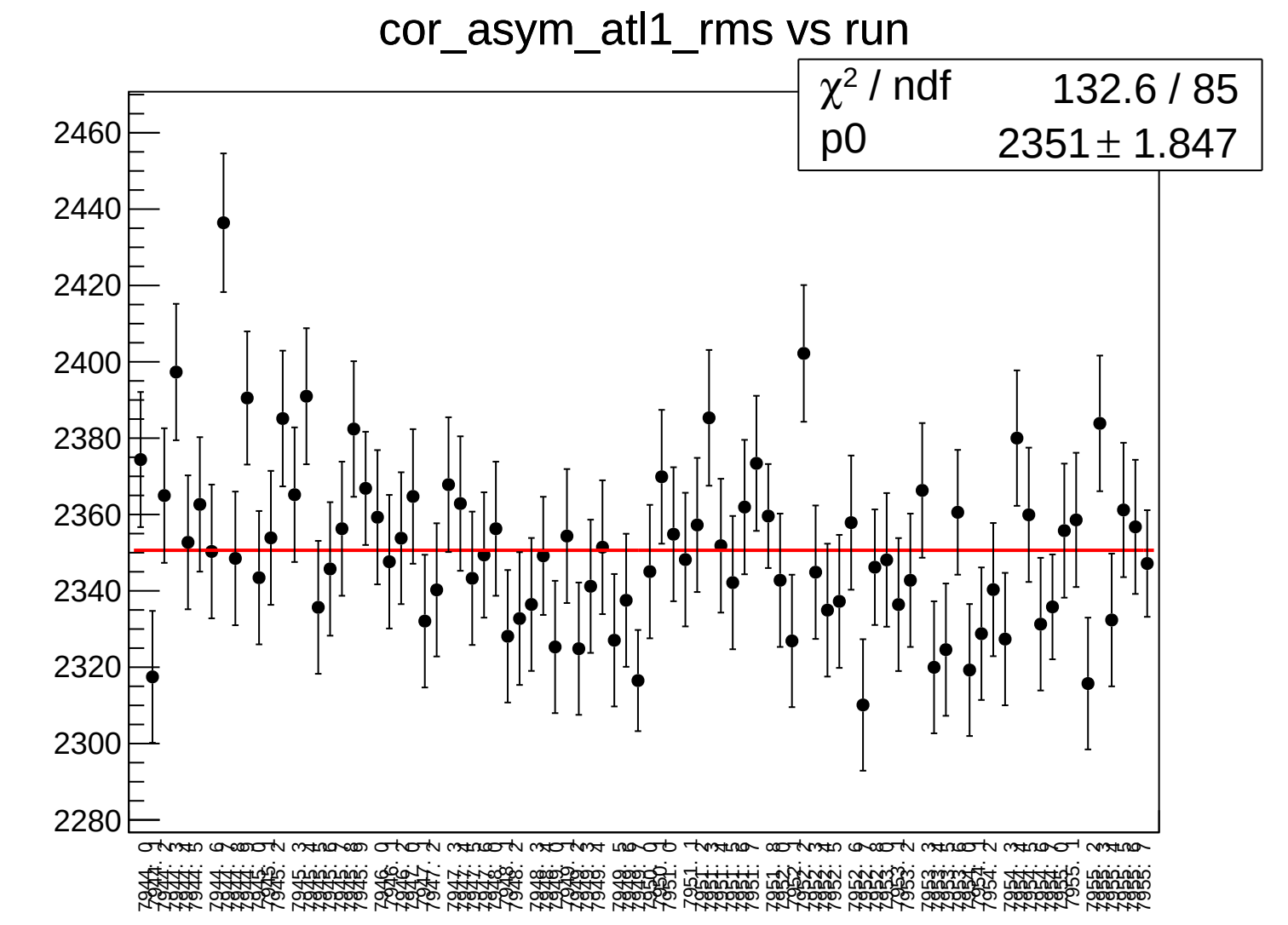

pull1D
Entries 86
Mean 0.005342
Std Dev 0.9293
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

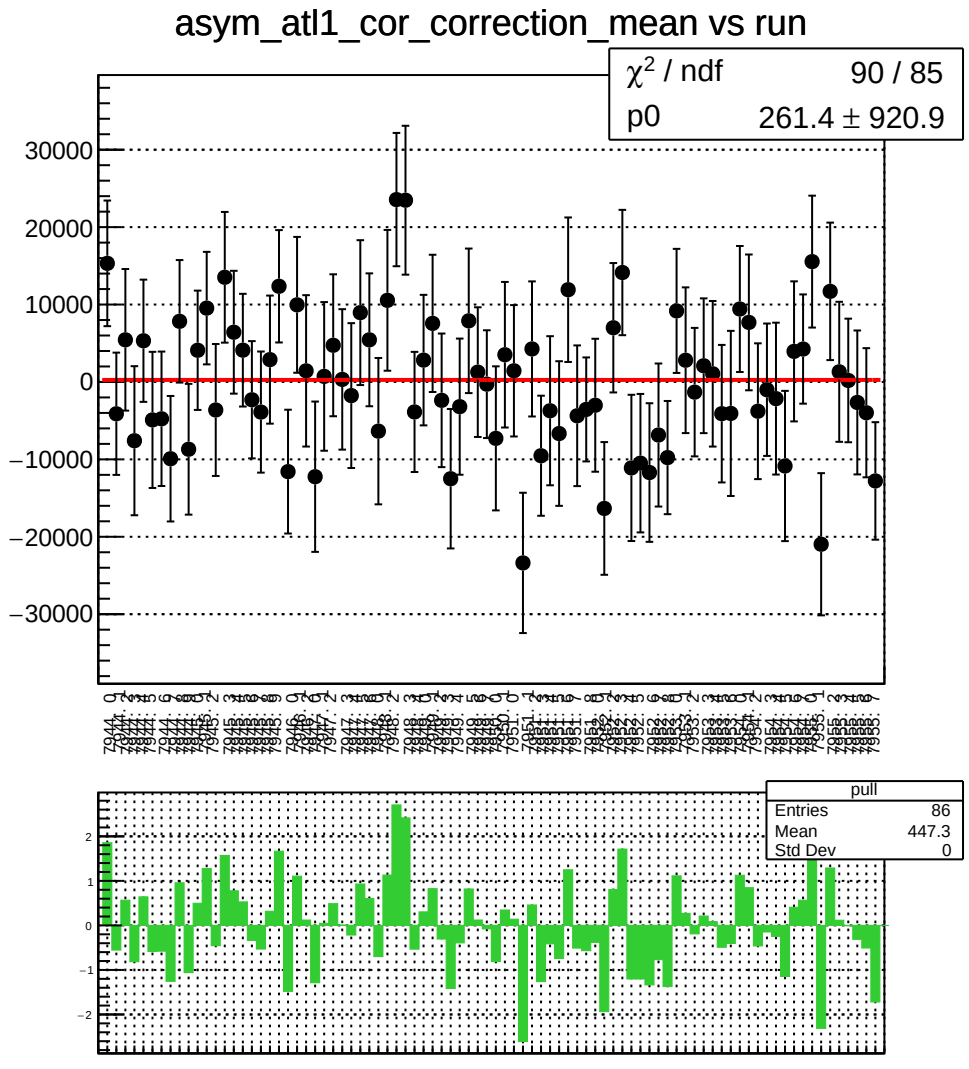

reg_asym_atl1_rms vs run
χ² / ndf 132.6 / 85
p0 2351 ± 1.847
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

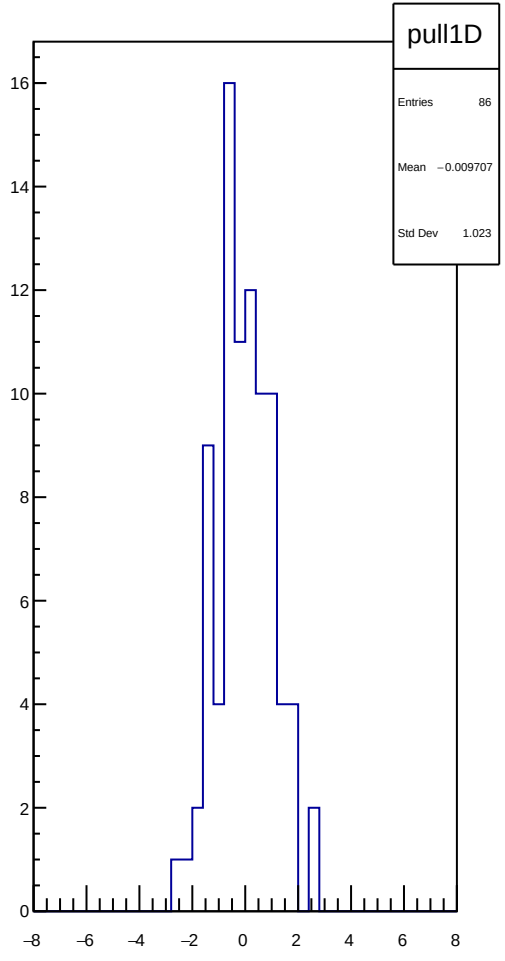

asym_atl1_reg_correction_mean vs run
χ² / ndf 89.99 / 85
p0 261.4 ± 920.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 444.5
Std Dev 0
pull1D
Entries 86
Mean −0.009772
Std Dev 1.023

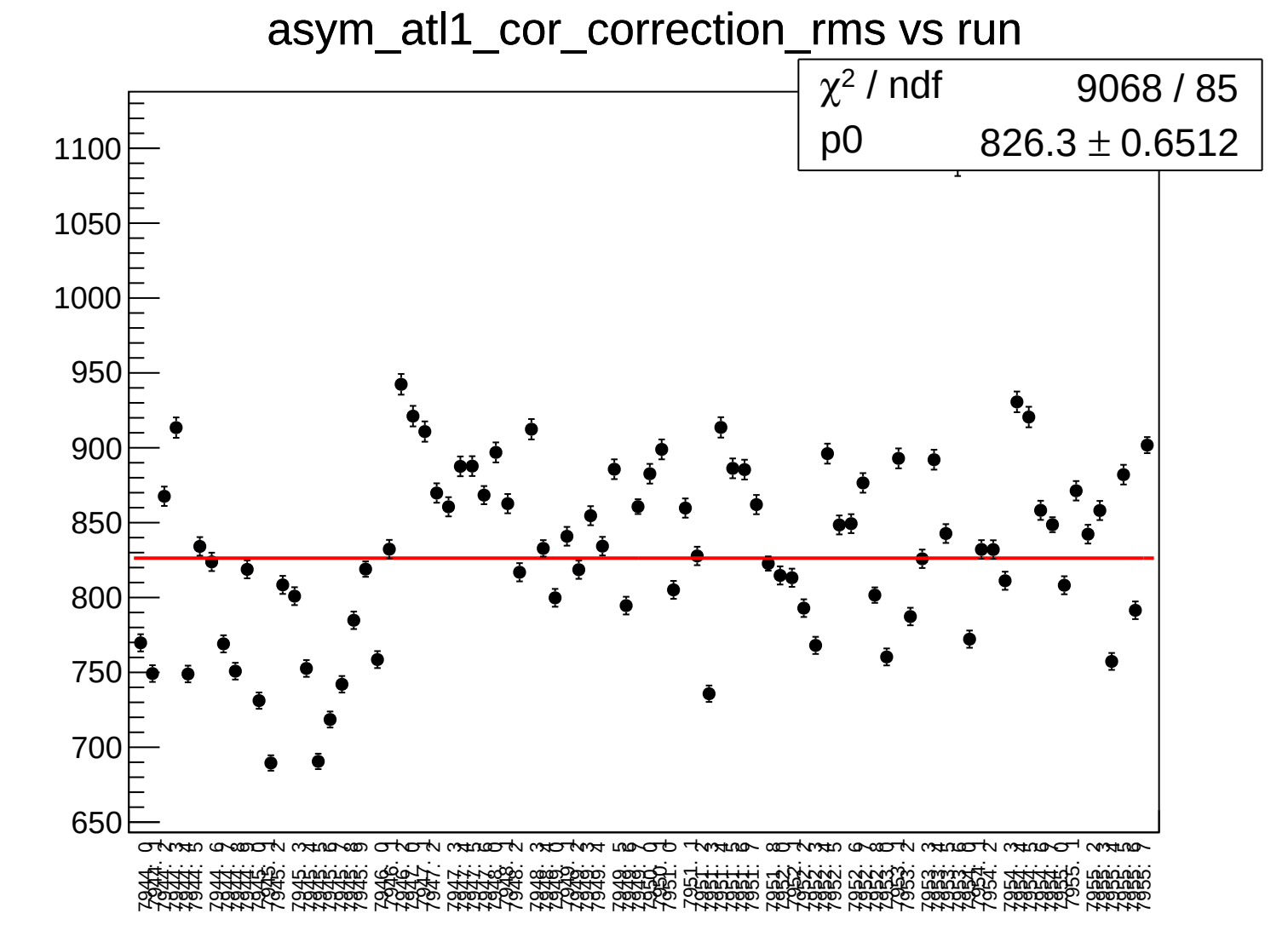

asym_atl1_reg_correction_rms vs run
χ² / ndf 9074 / 85
p0 826.3 ± 0.6512
1100
1050
1000
950
900
850
800
750
700
650

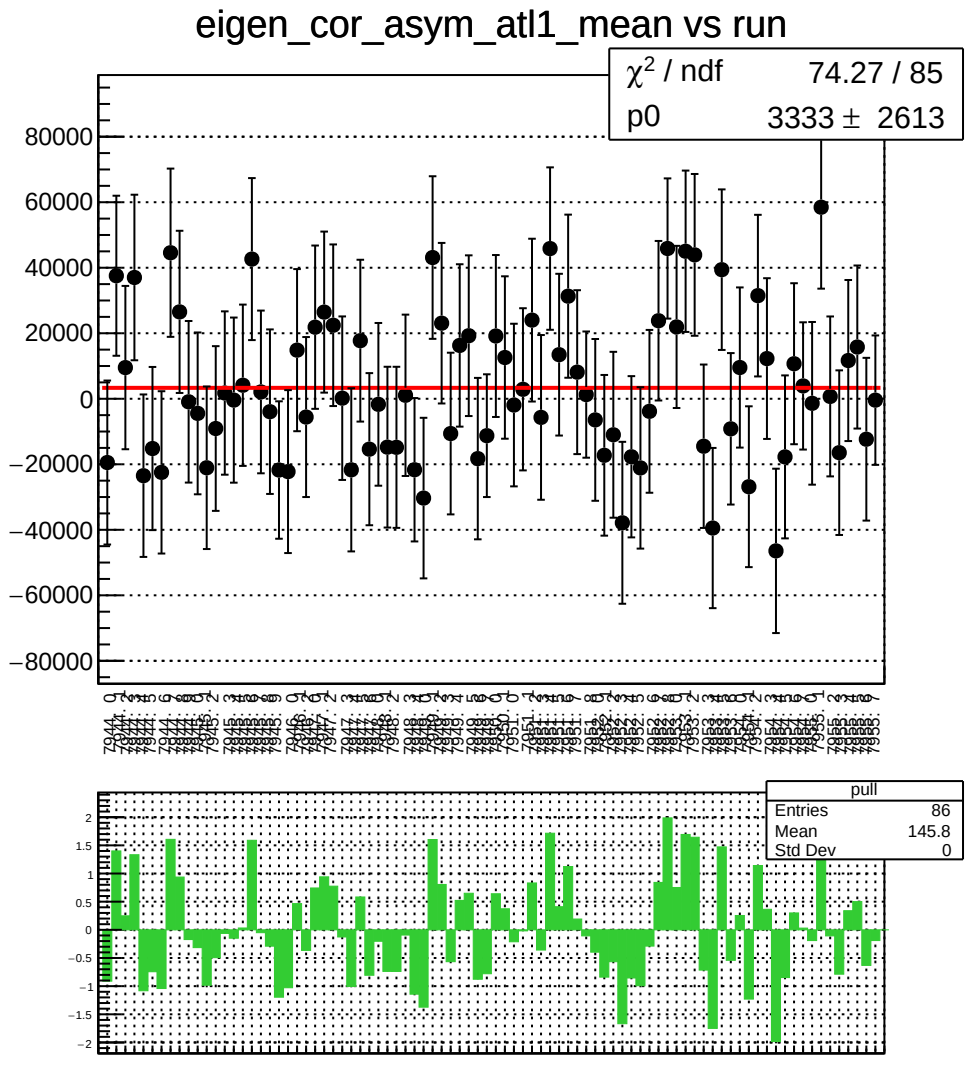

cor_asym_atl1_mean vs run
χ² / ndf 74.27 / 85
p0 3333 ± 2613
pull
Entries 86
Mean 145.8
Std Dev 0
pull1D
Entries 86
Mean 0.005343
Std Dev 0.9293

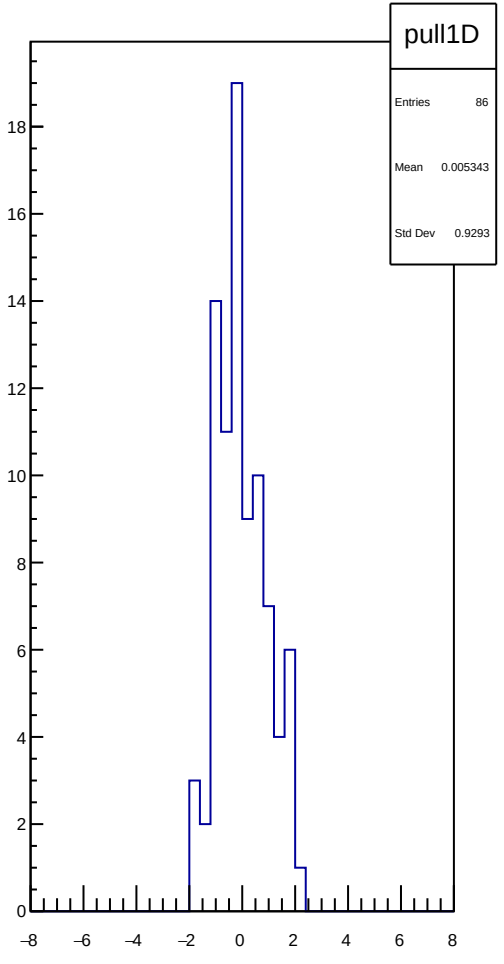

cor_asym_atl1_rms vs run
χ^2 / ndf 132.6 / 85
p0 2351 ± 1.847
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

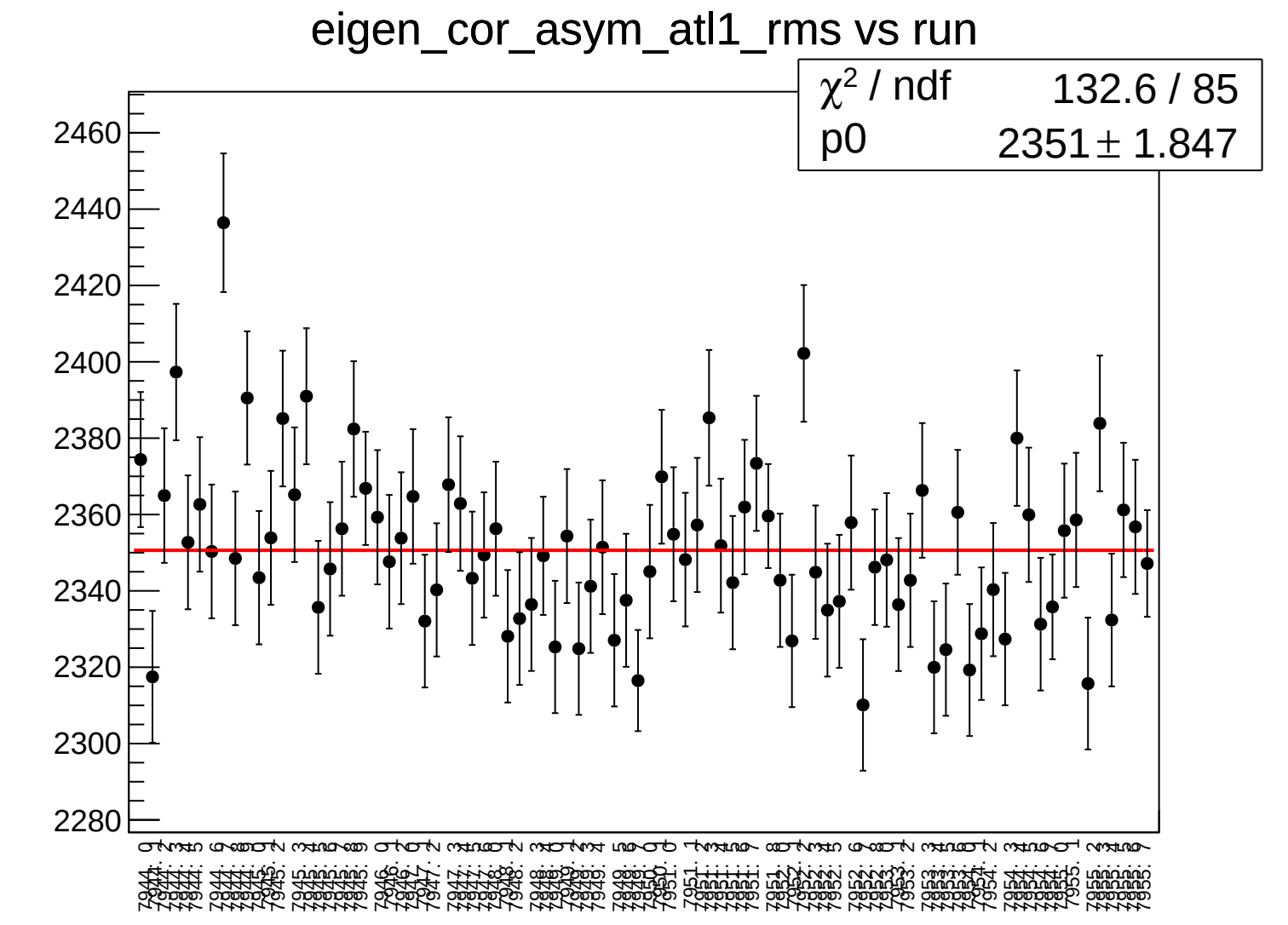

asym_atl1_cor_correction_mean vs run
χ² / ndf 90 / 85
p0 261.4 ± 920.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 447.3
Std Dev 0
2
1
0
−1
−2

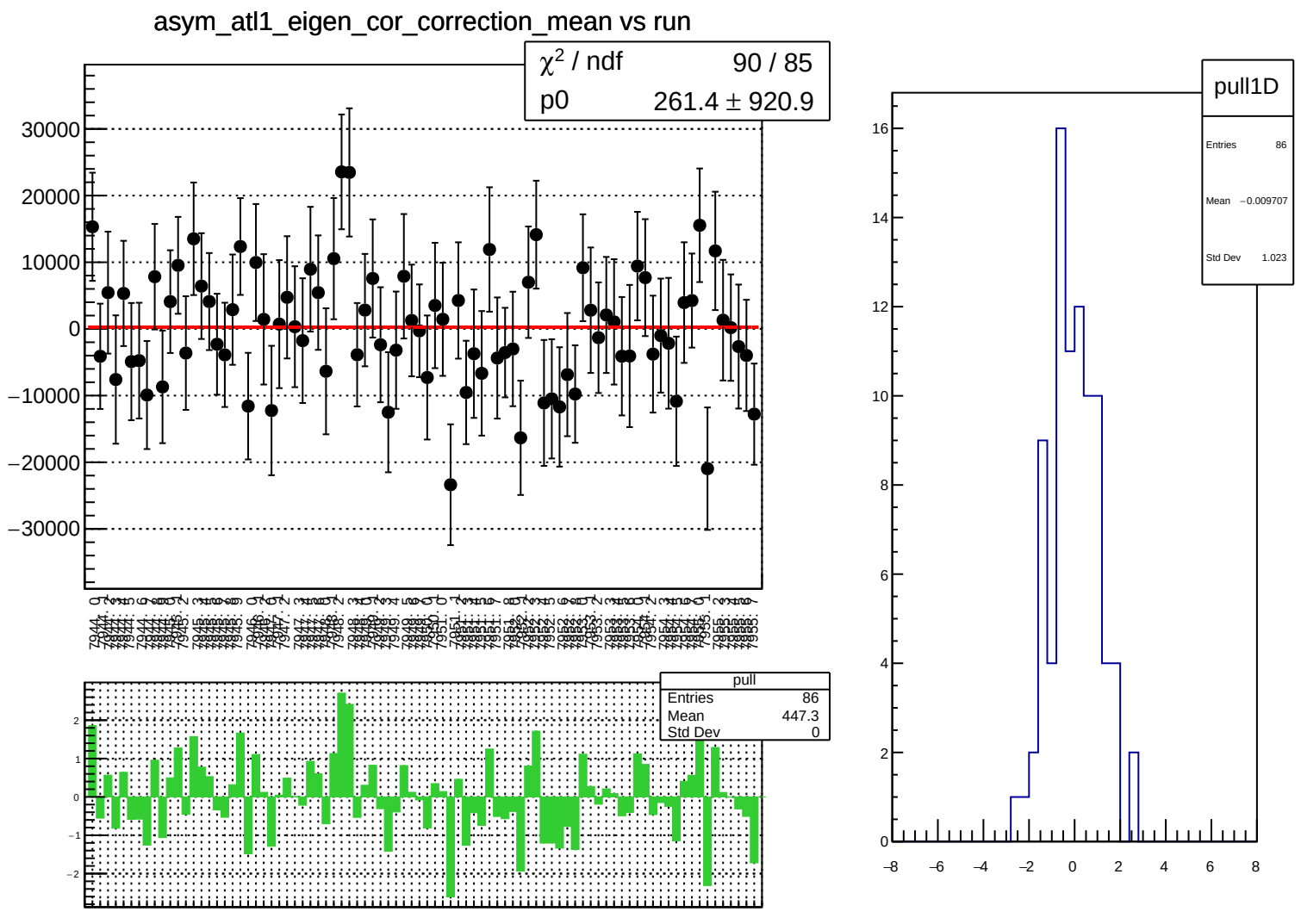

pull1D
Entries 86
Mean −0.009707
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

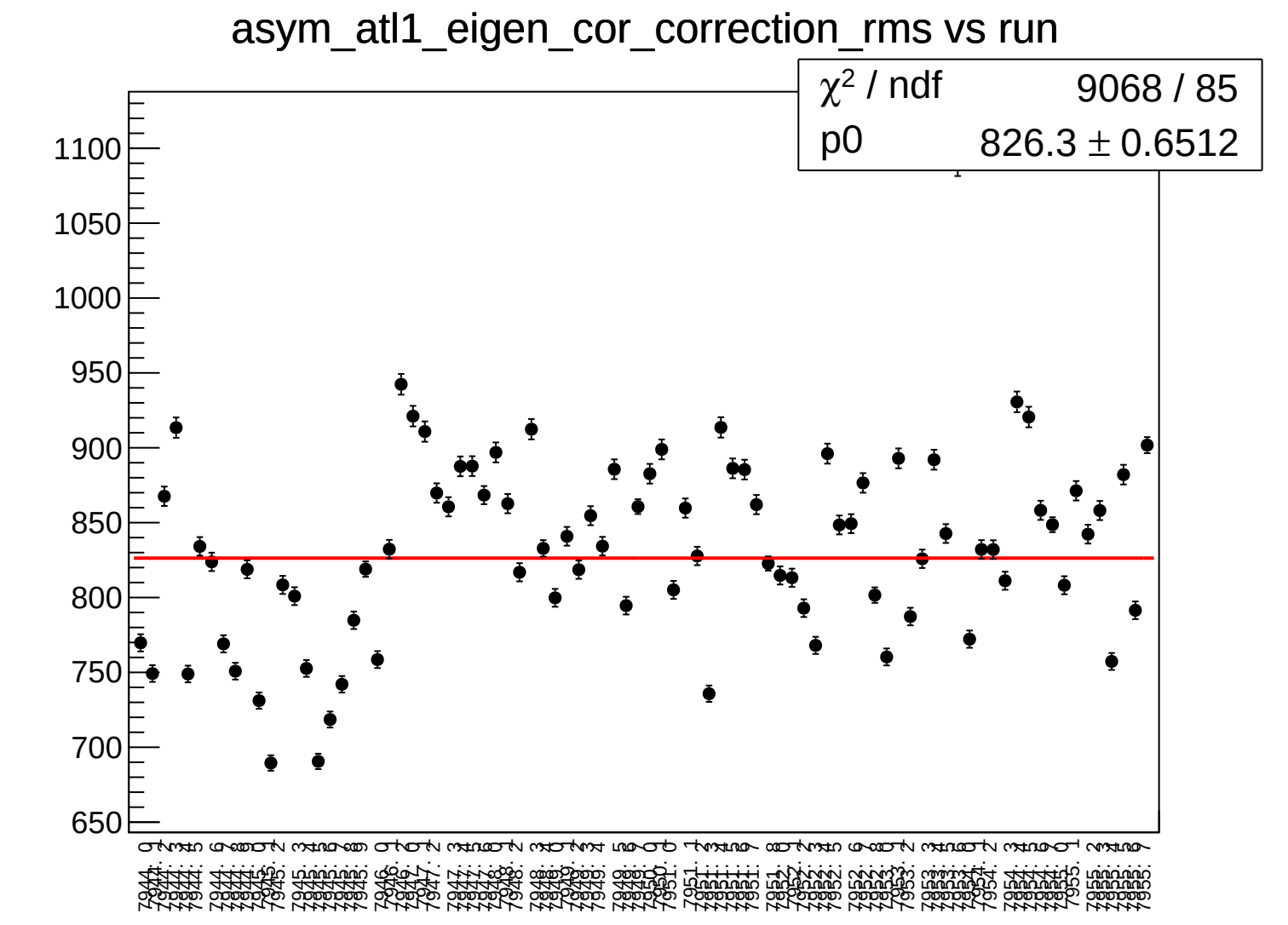

asym_atl1_cor_correction_rms vs run
χ² / ndf 9068 / 85
p0 826.3 ± 0.6512
1100
1050
1000
950
900
850
800
750
700
650

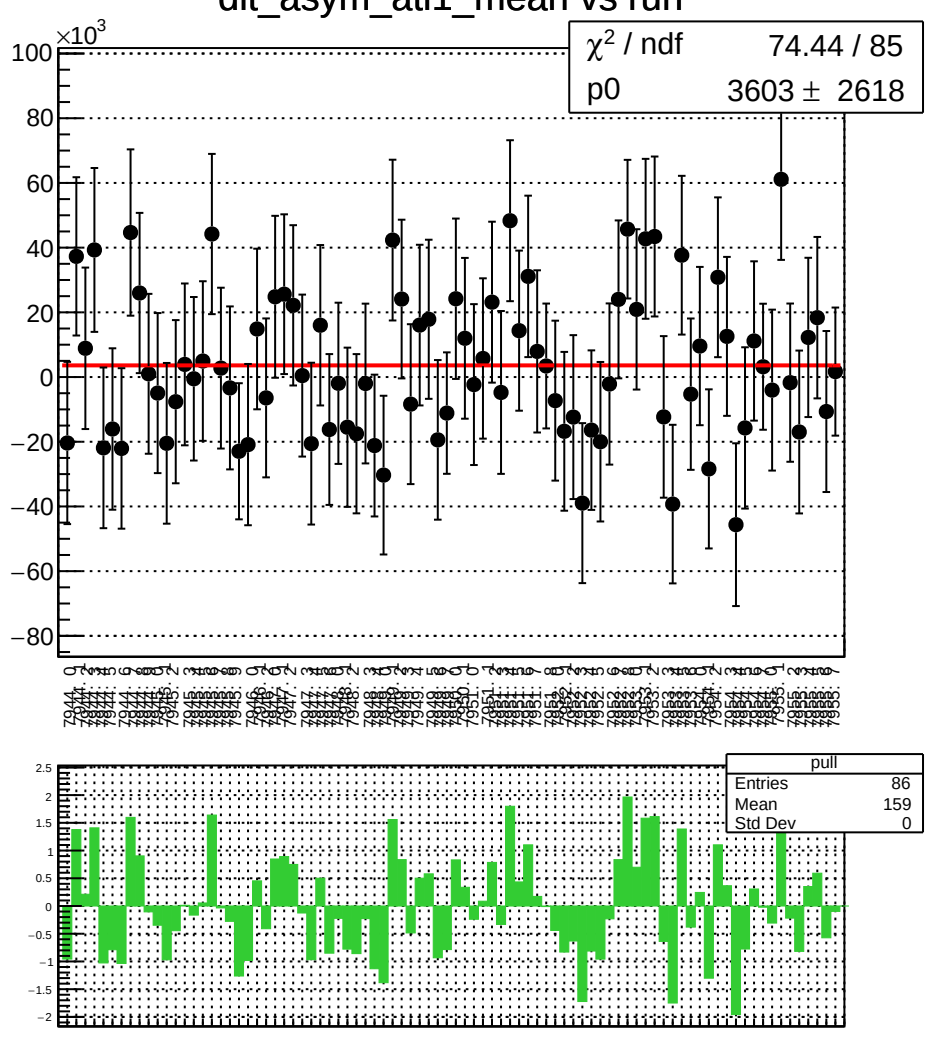

eigen_cor_asym_atl1_mean vs run
χ^2 / ndf 74.27 / 85
p0 3333 ± 2613
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 145.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

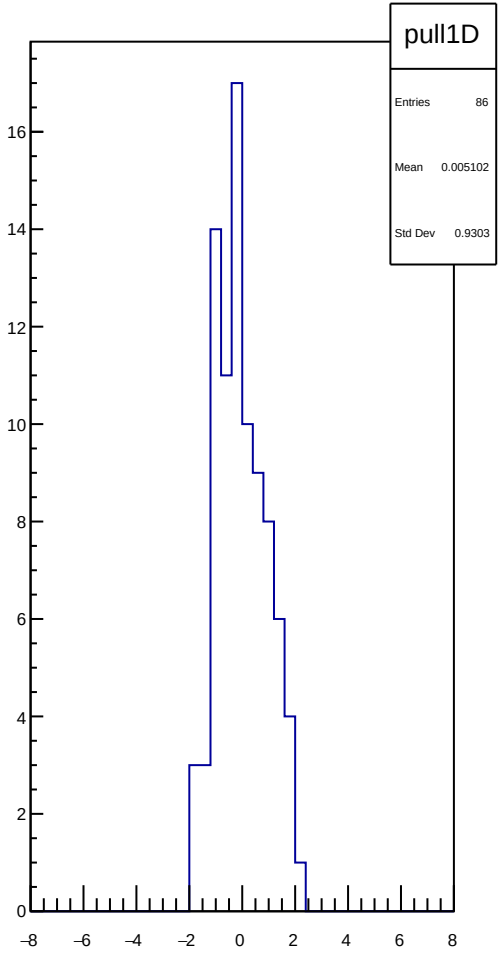

pull1D
Entries 86
Mean 0.005343
Std Dev 0.9293
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

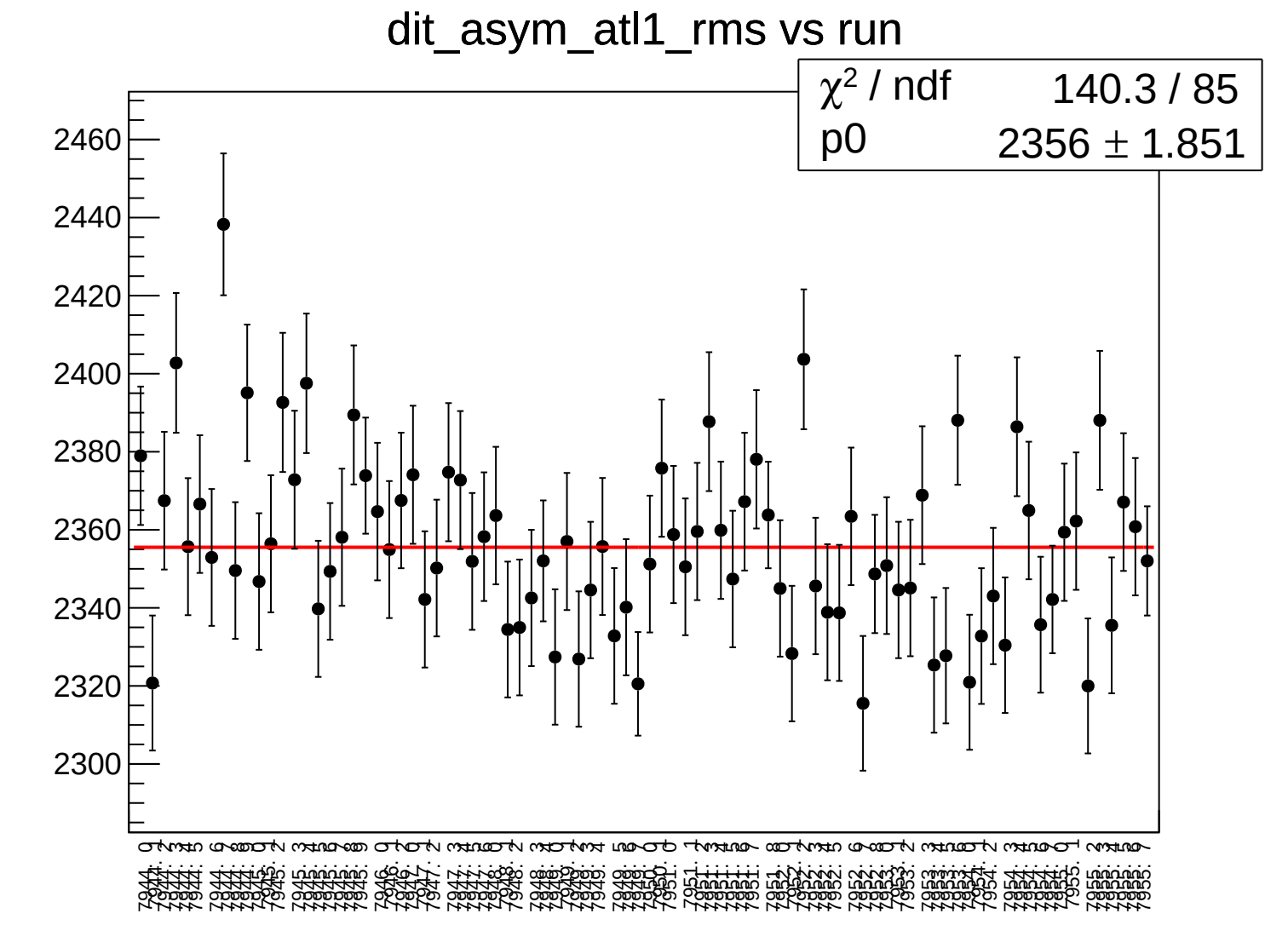

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 132.6 / 85
p0 2351 ± 1.847
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

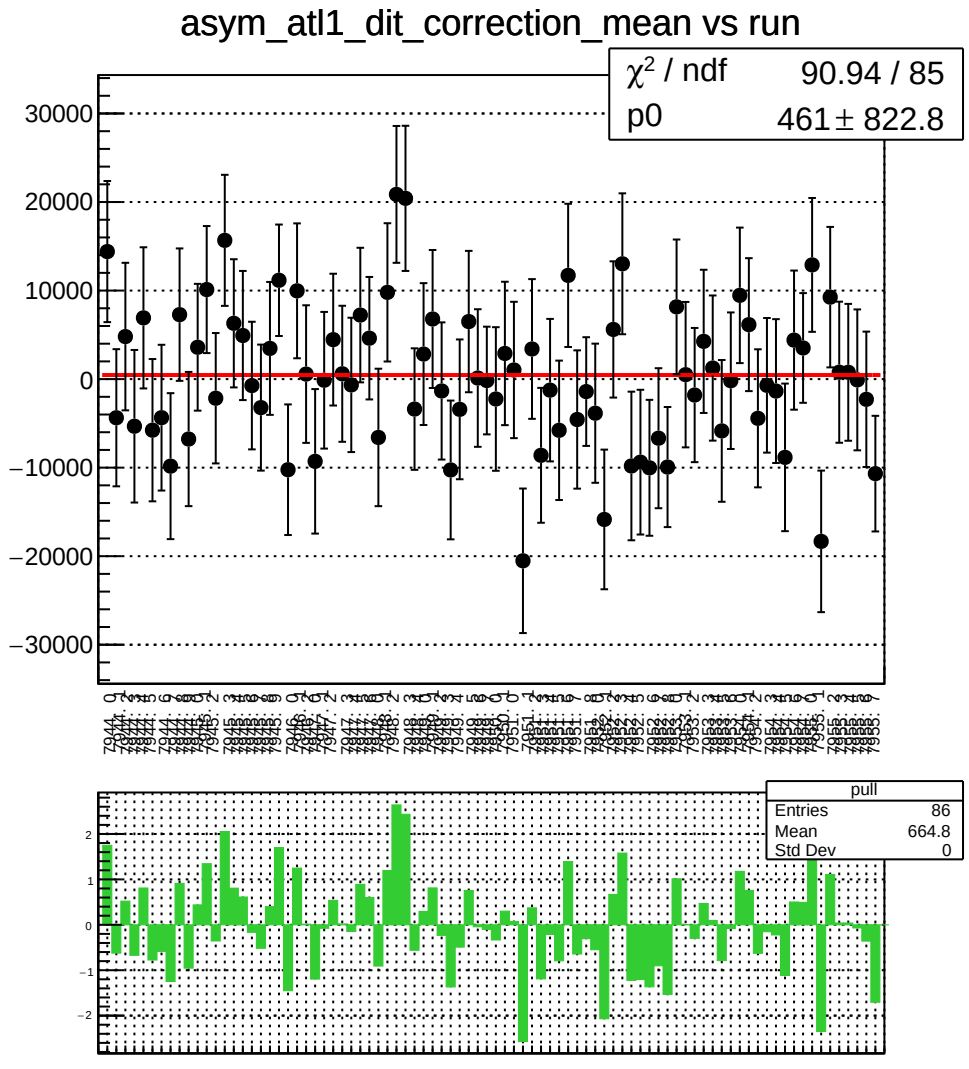

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 90 / 85
p0 261.4 ± 920.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 447.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.009707
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

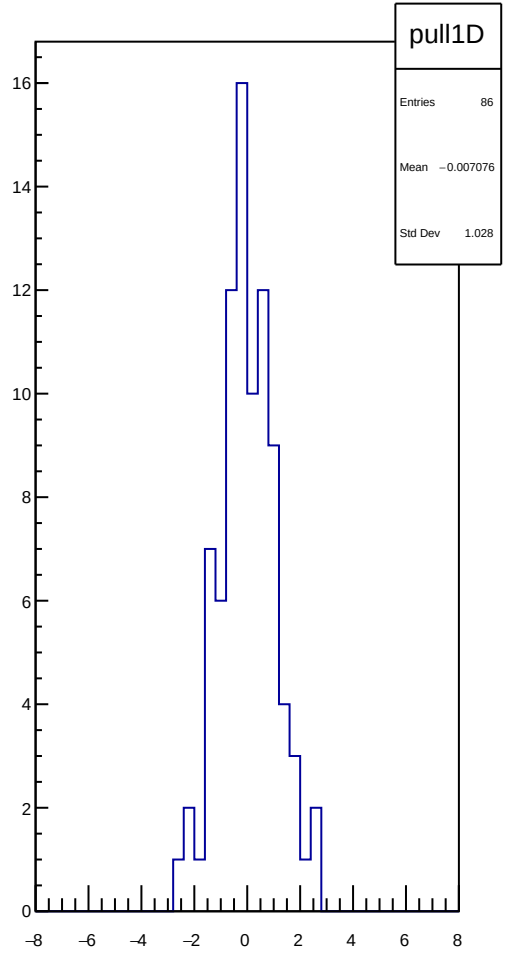

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 9068 / 85
p0 826.3 ± 0.6512
1100
1050
1000
950
900
850
800
750
700
650

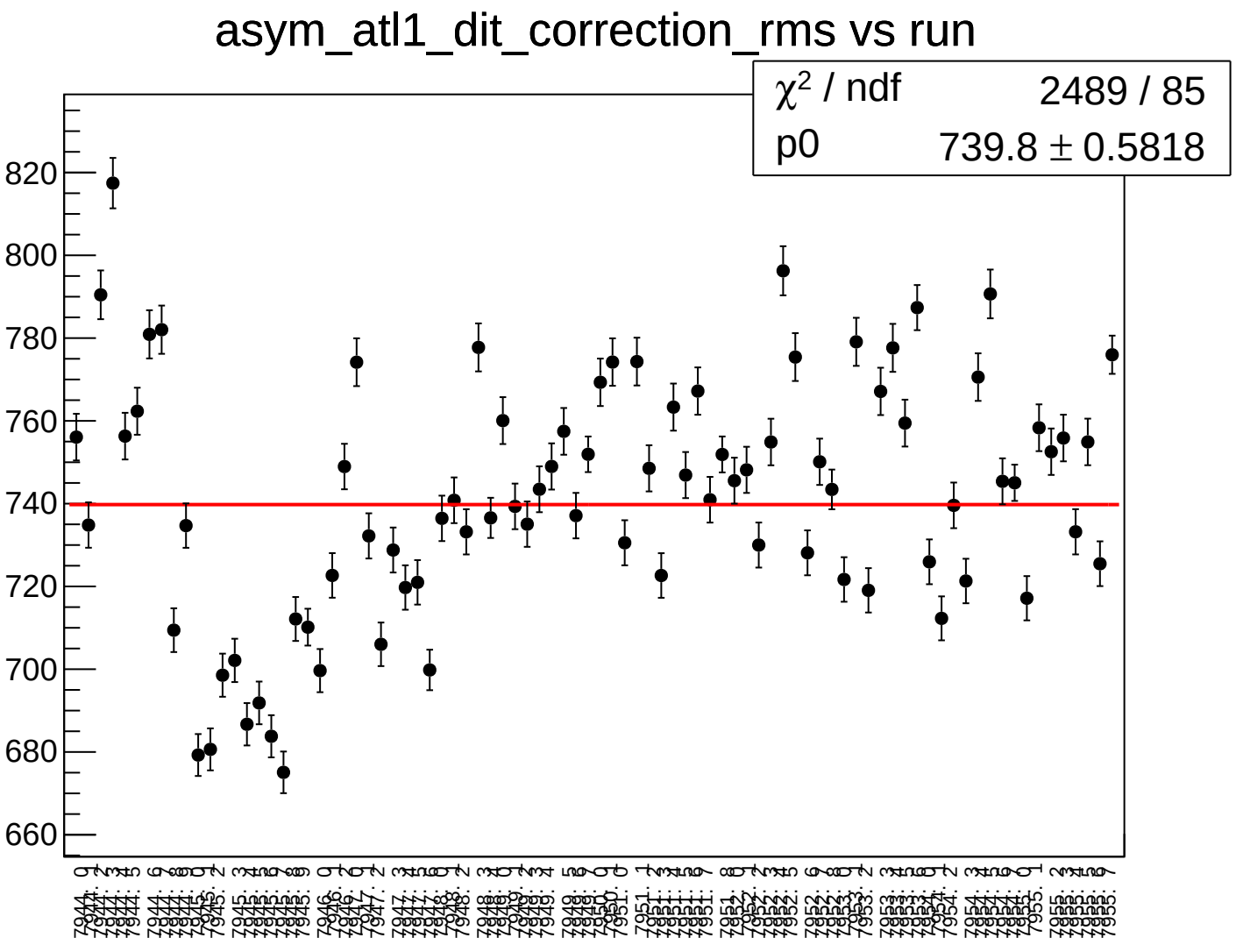

dit_asym_atl1_mean vs run
χ² / ndf 74.44 / 85
p0 3603 ± 2618
×10³
pull
Entries 86
Mean 159
Std Dev 0

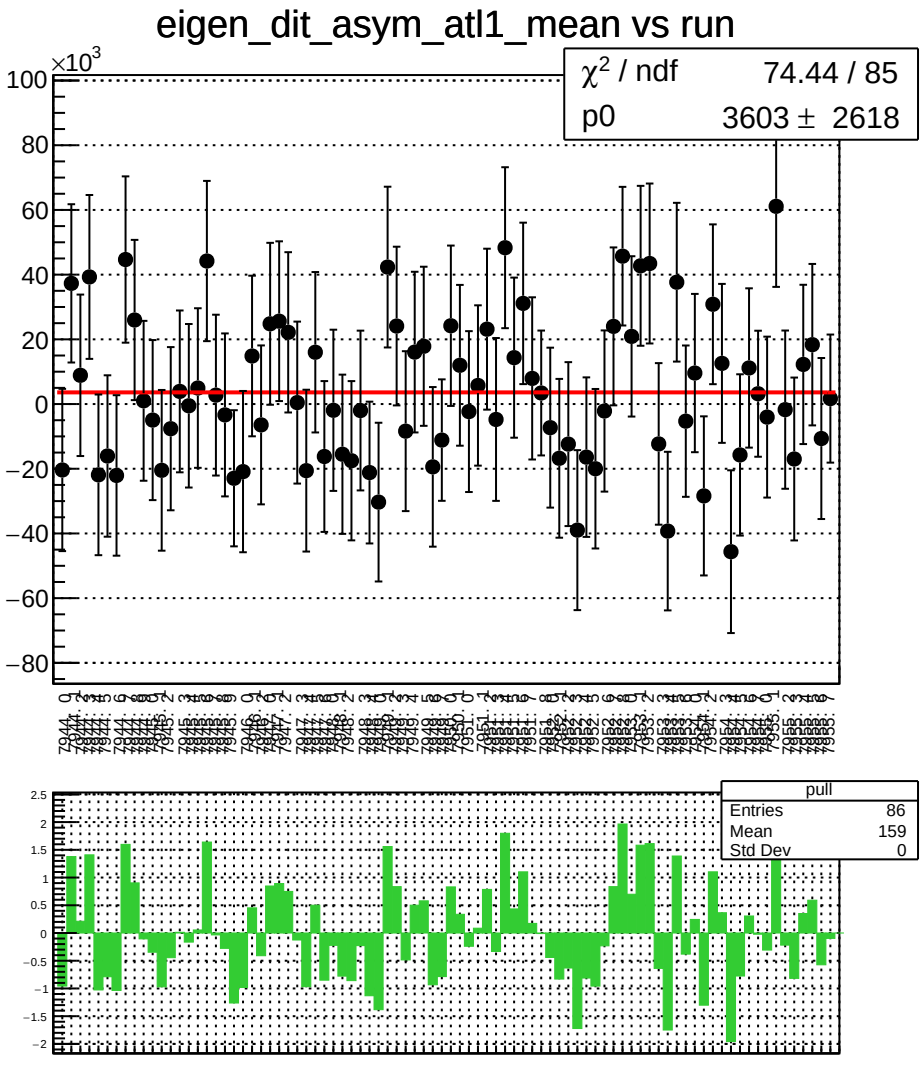

pull1D
Entries 86
Mean 0.005102
Std Dev 0.9303

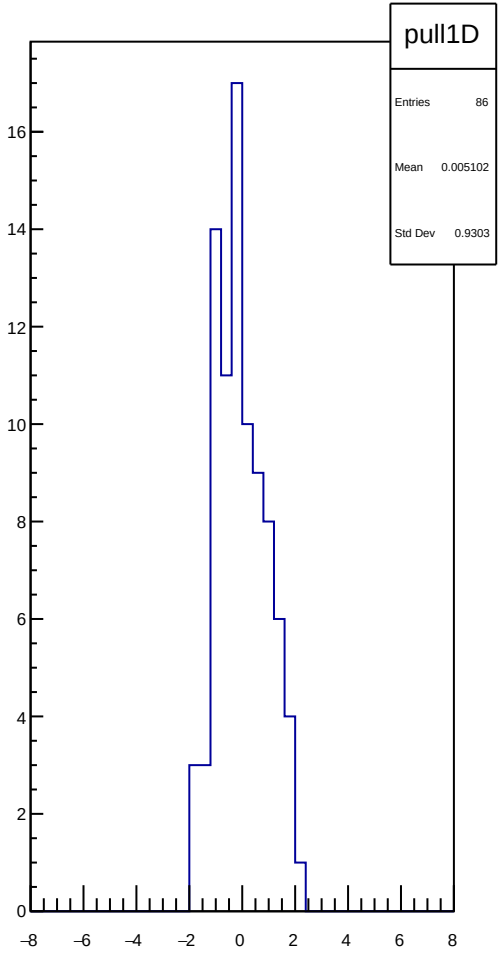

dit_asym_atl1_rms vs run
χ² / ndf 140.3 / 85
p0 2356 ± 1.851
2460
2440
2420
2400
2380
2360
2340
2320
2300

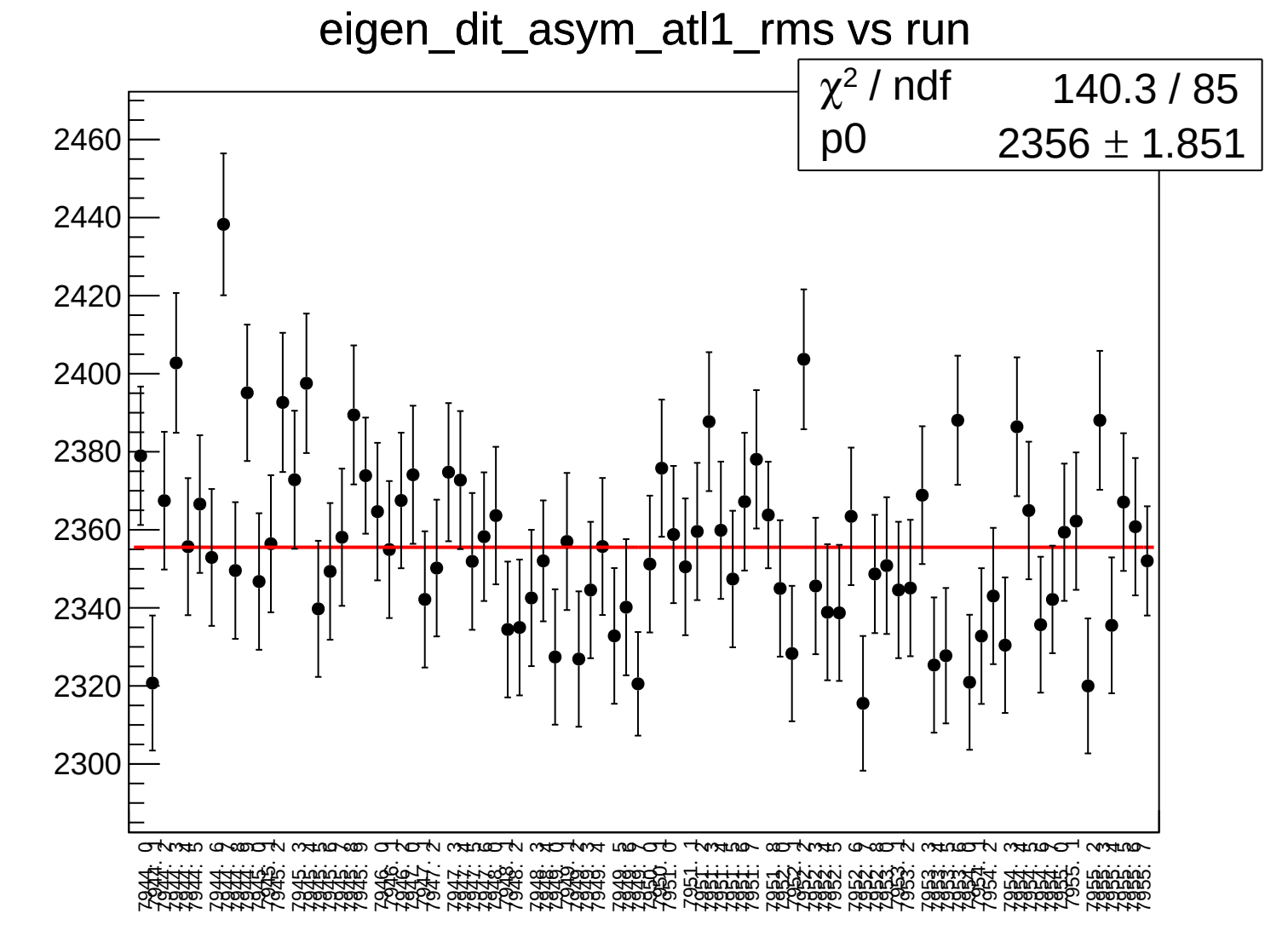

asym_atl1_dit_correction_mean vs run
χ² / ndf 90.94 / 85
p0 461 ± 822.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 664.8
Std Dev 0
2
1
0
−1
−2

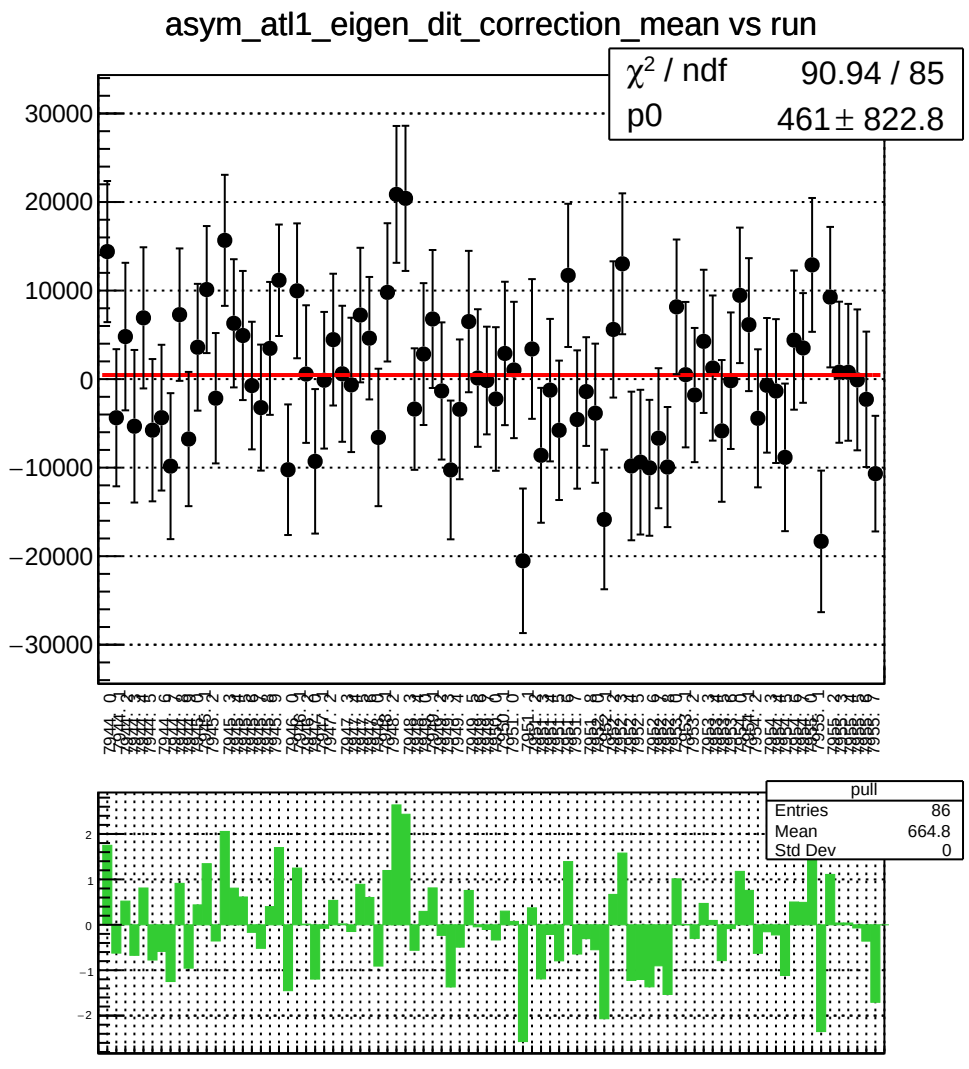

pull1D
Entries 86
Mean −0.007076
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

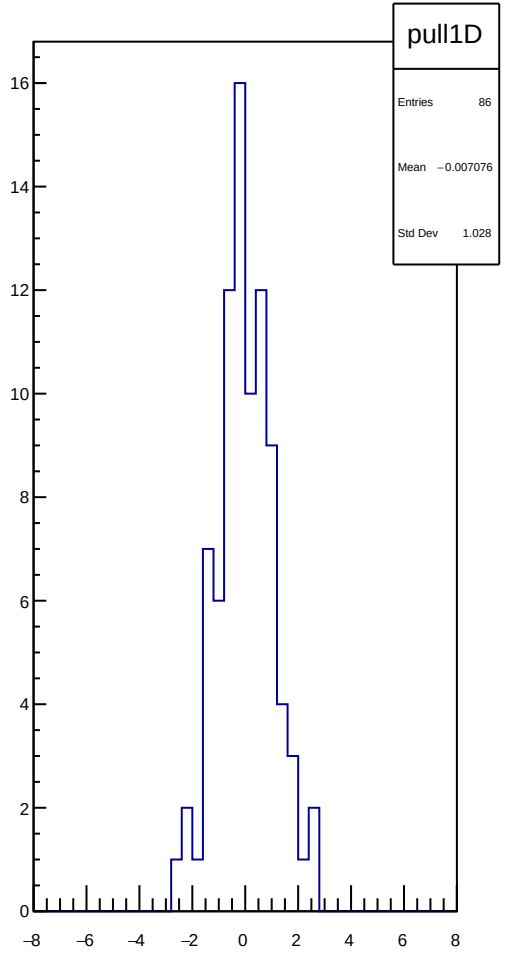

asym_atl1_dit_correction_rms vs run
χ² / ndf 2489 / 85
p0 739.8 ± 0.5818
820
800
780
760
740
720
700
680
660

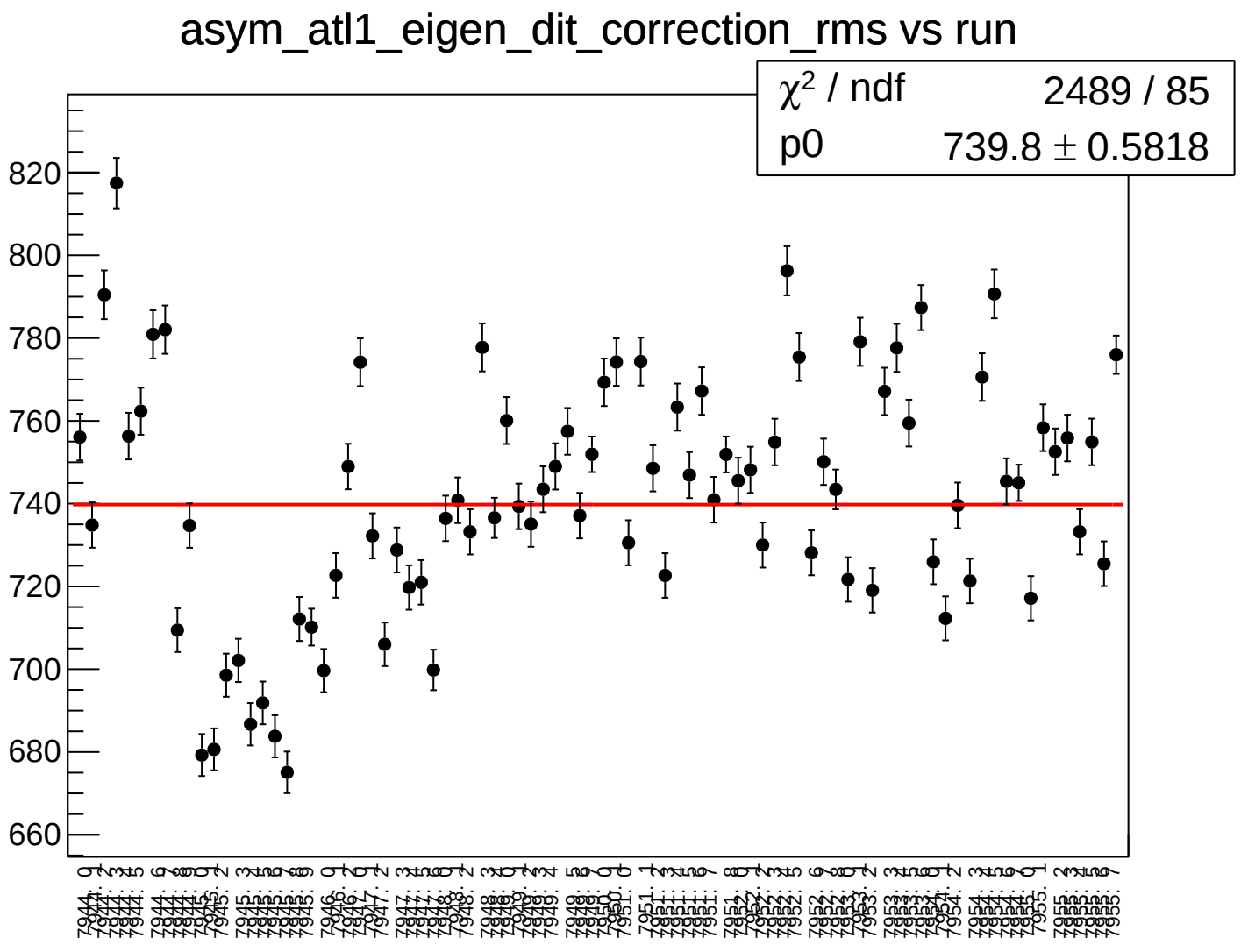

eigen_dit_asym_atl1_mean vs run
χ² / ndf 74.44 / 85
p0 3603 ± 2618
×10³
pull
Entries 86
Mean 159
Std Dev 0

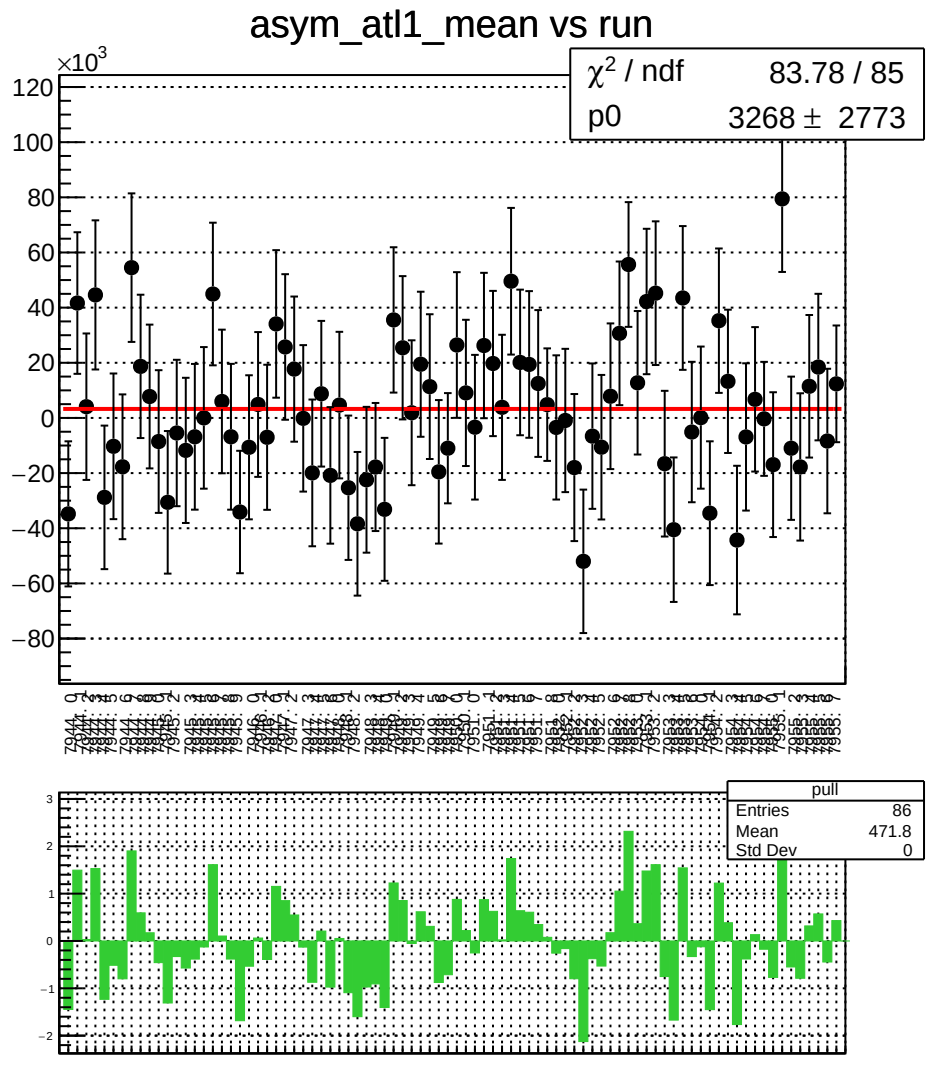

pull1D
Entries 86
Mean 0.005102
Std Dev 0.9303

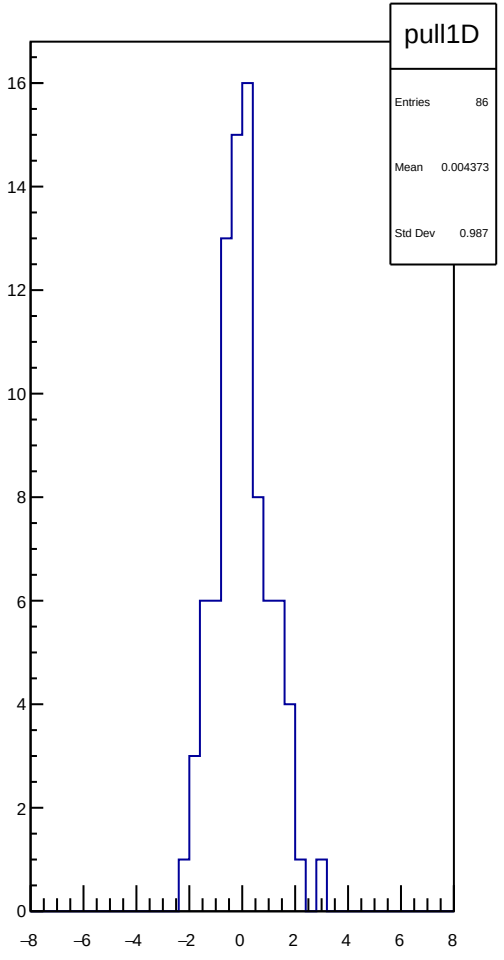

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 140.3 / 85
p0 2356 ± 1.851
2460
2440
2420
2400
2380
2360
2340
2320
2300

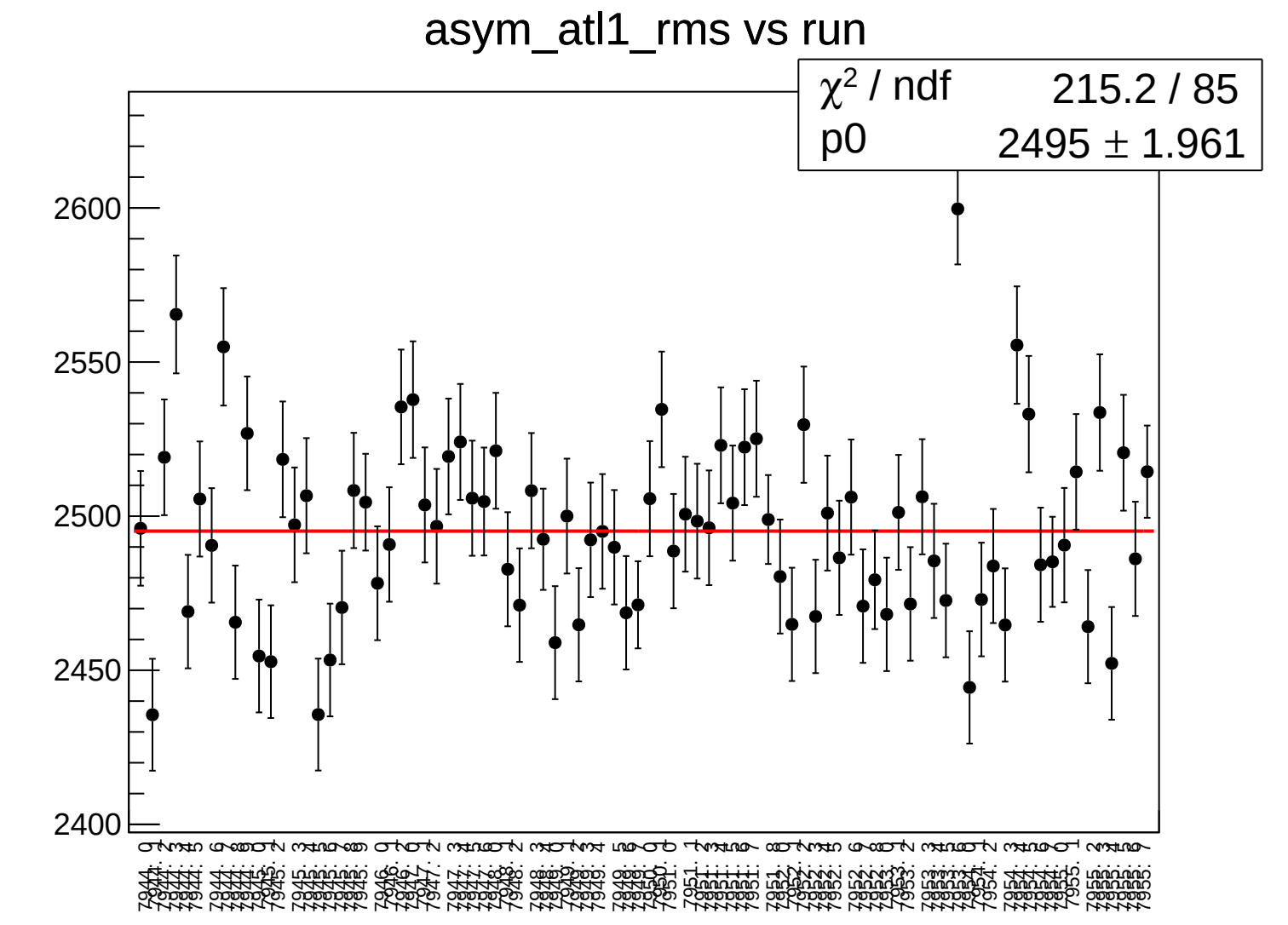

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 90.94 / 85
p0 461 ± 822.8
pull
Entries 86
Mean 664.8
Std Dev 0

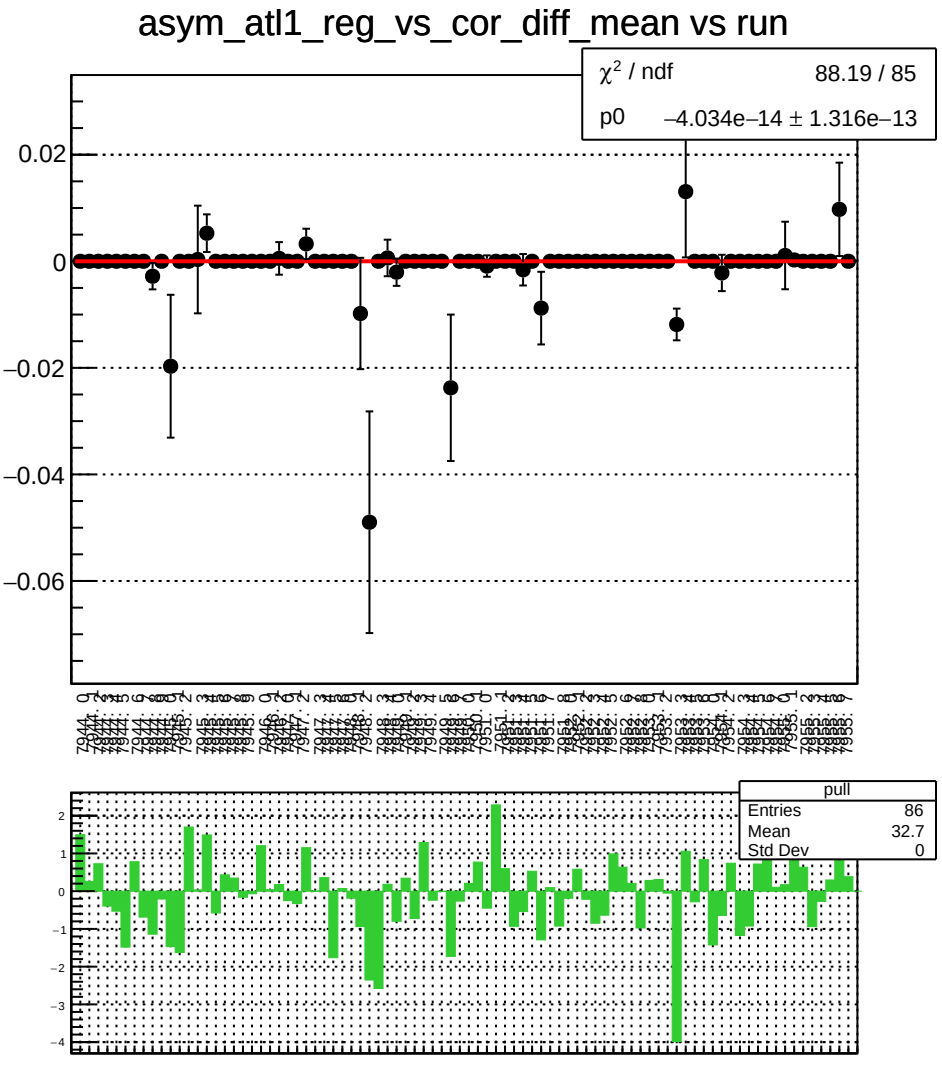

pull1D
Entries 86
Mean −0.007076
Std Dev 1.028

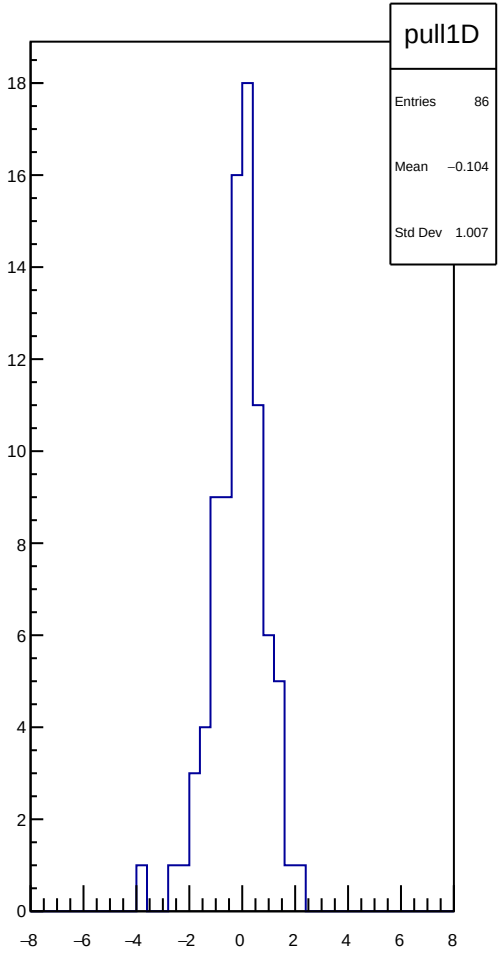

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 2489 / 85
p0 739.8 ± 0.5818
820
800
780
760
740
720
700
680
660

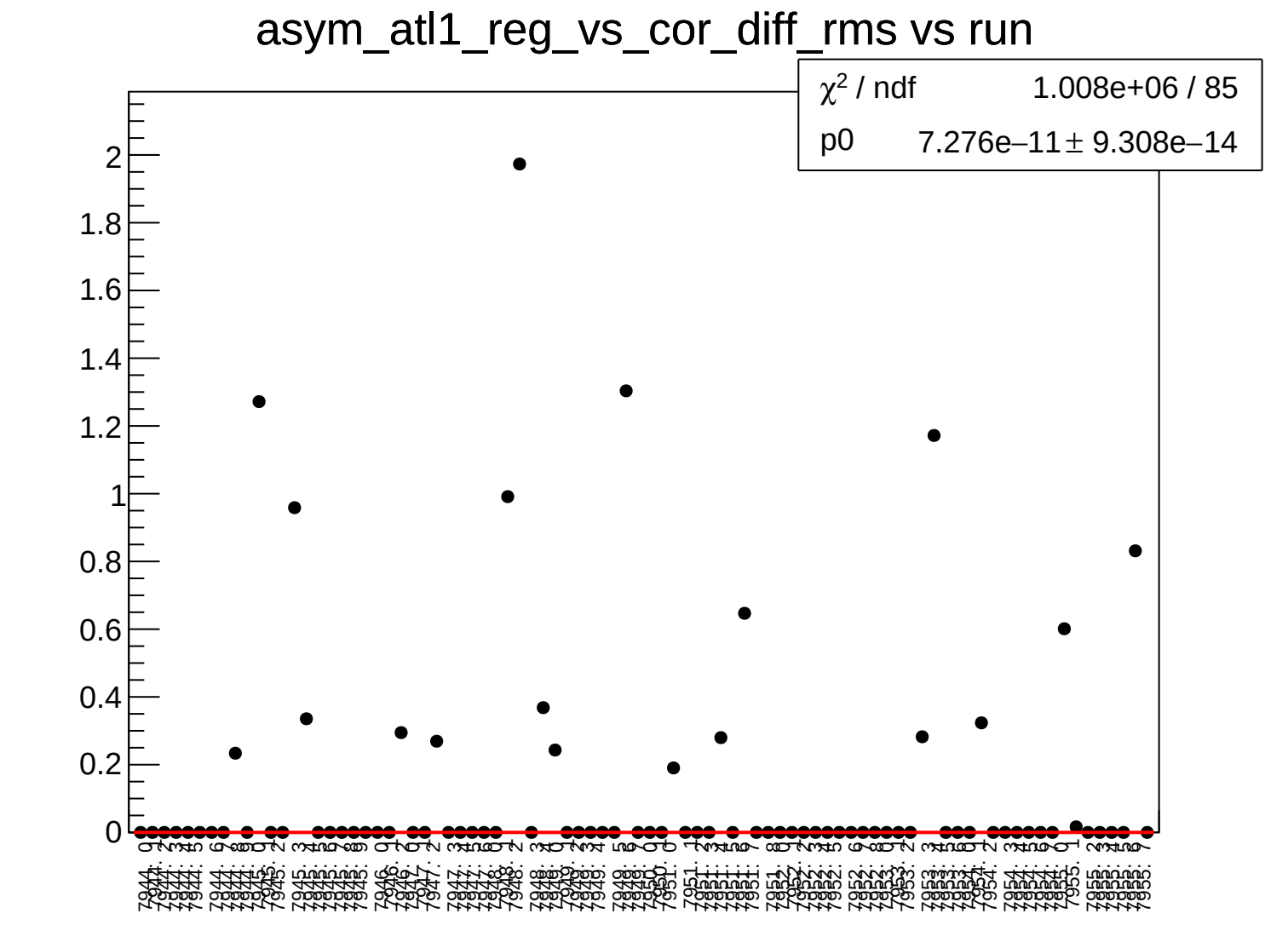

asym_atl1_mean vs run
χ² / ndf 83.78 / 85
p0 3268 ± 2773
pull
Entries 86
Mean 471.8
Std Dev 0

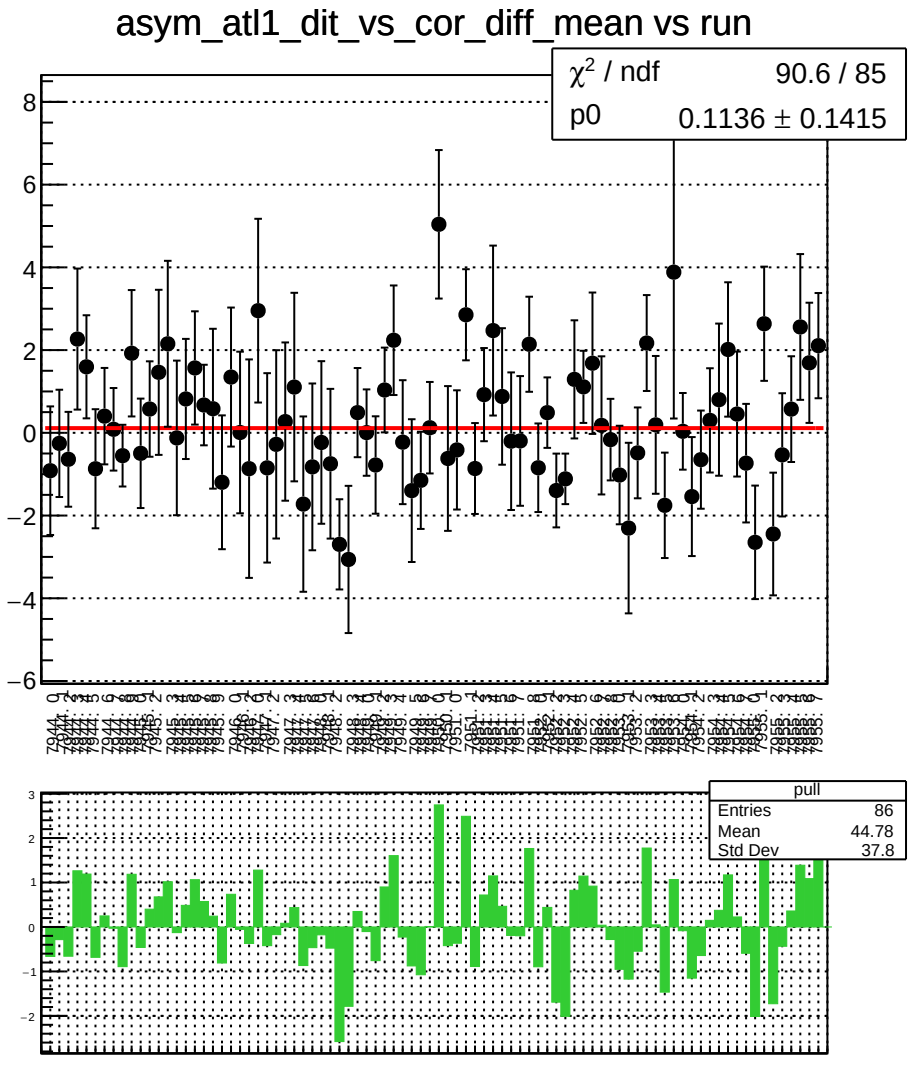

pull1D
Entries 86
Mean 0.004373
Std Dev 0.987

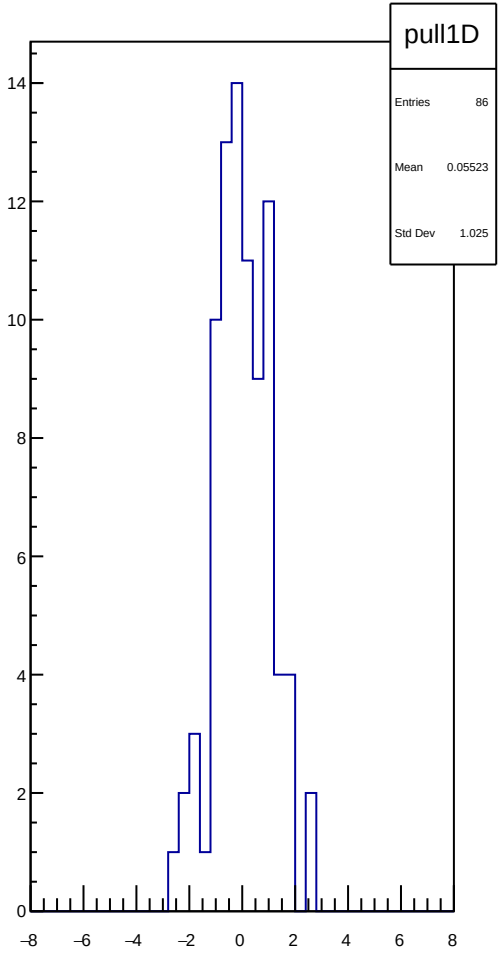

asym_atl1_rms vs run
χ² / ndf 215.2 / 85
p0 2495 ± 1.961
2600
2550
2500
2450
2400

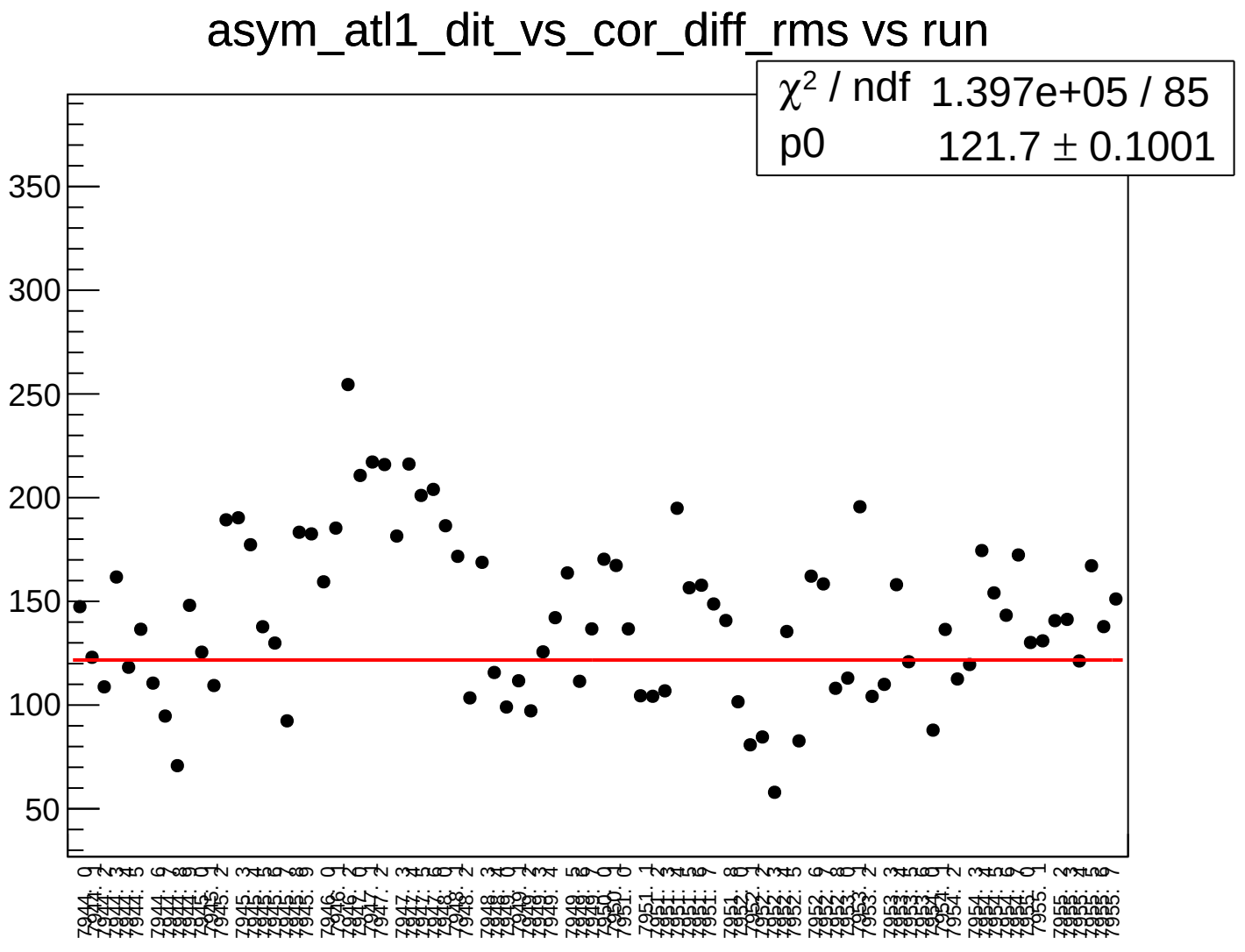

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 88.19 / 85
p0 −4.034e−14 ± 1.316e−13
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 32.7
Std Dev 0
2
1
0
−1
−2
−3
−4

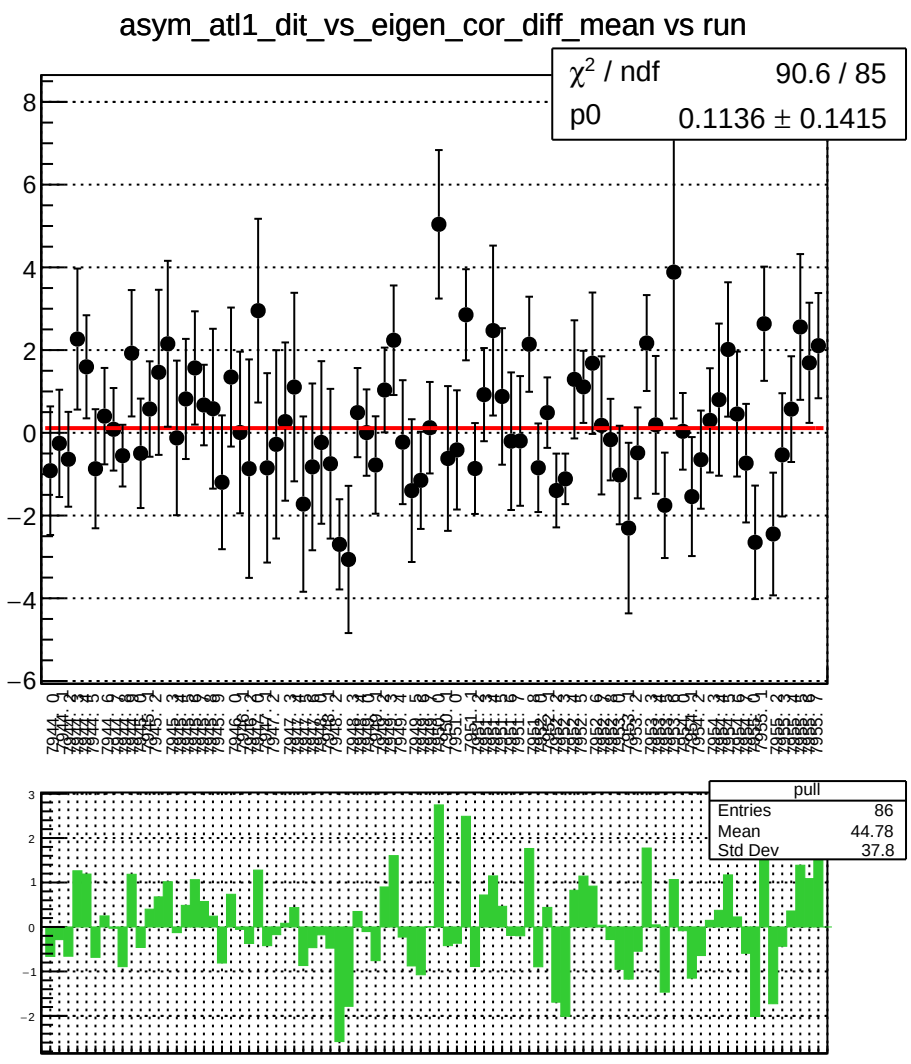

pull1D
Entries 86
Mean −0.104
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

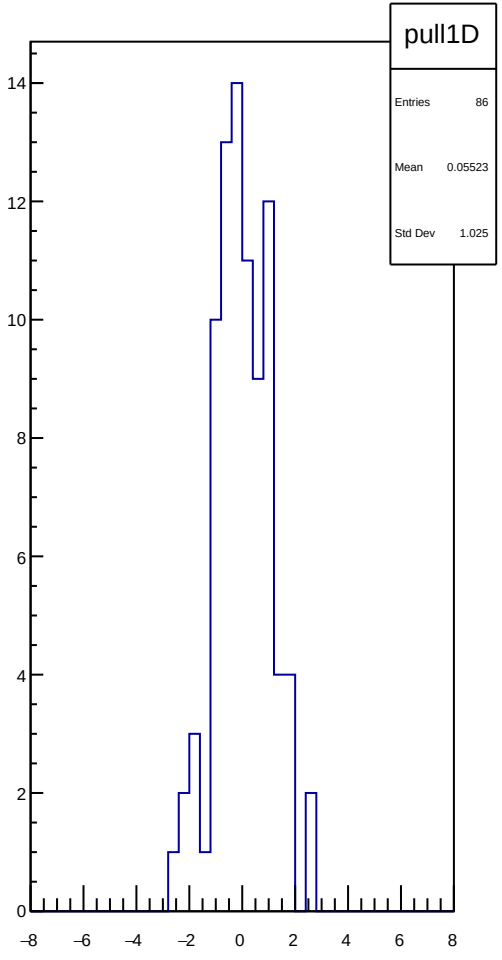

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.008e+06 / 85
p0 7.276e−11 ± 9.308e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

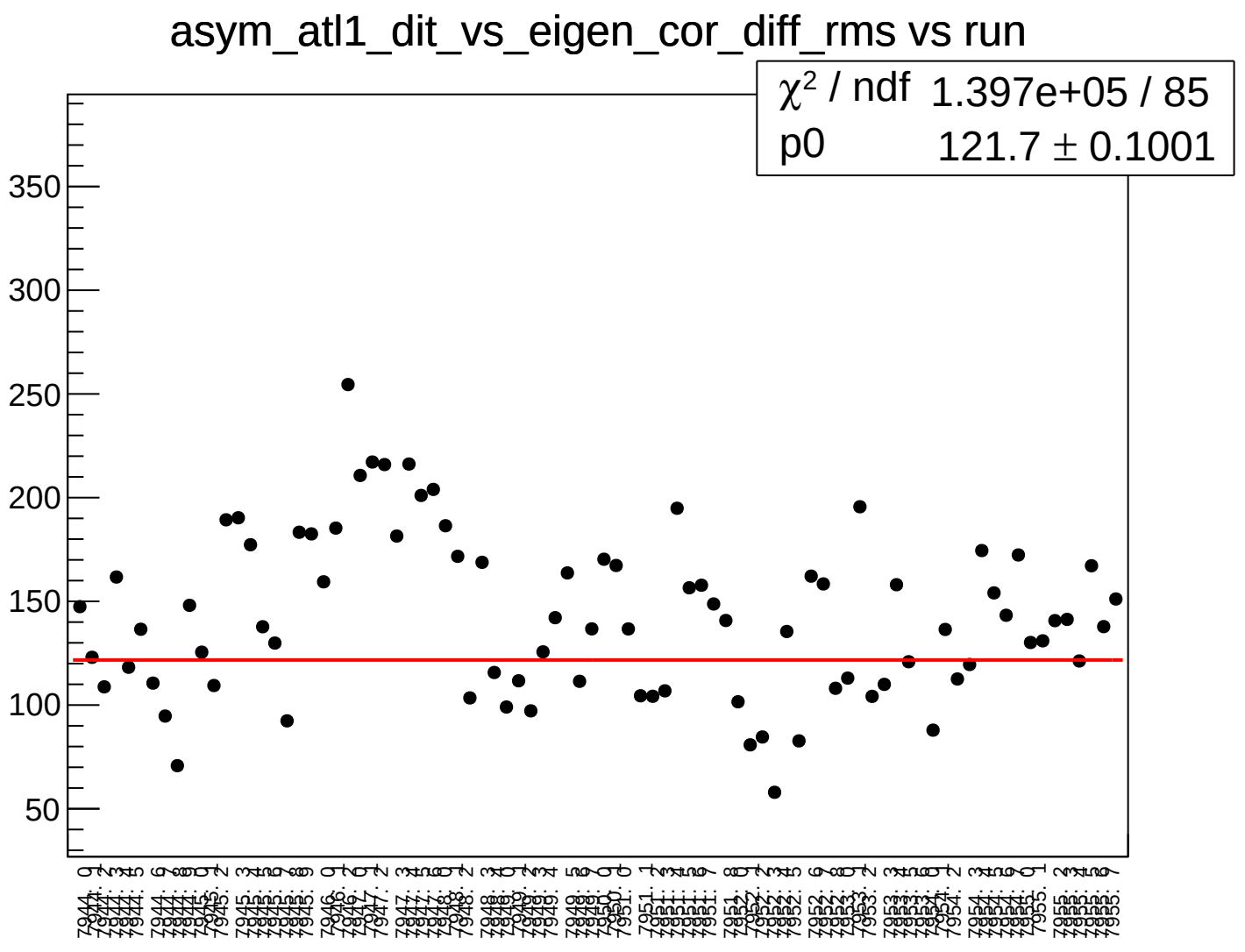

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 90.6 / 85
p0 0.1136 ± 0.1415
pull
Entries 86
Mean 44.78
Std Dev 37.8

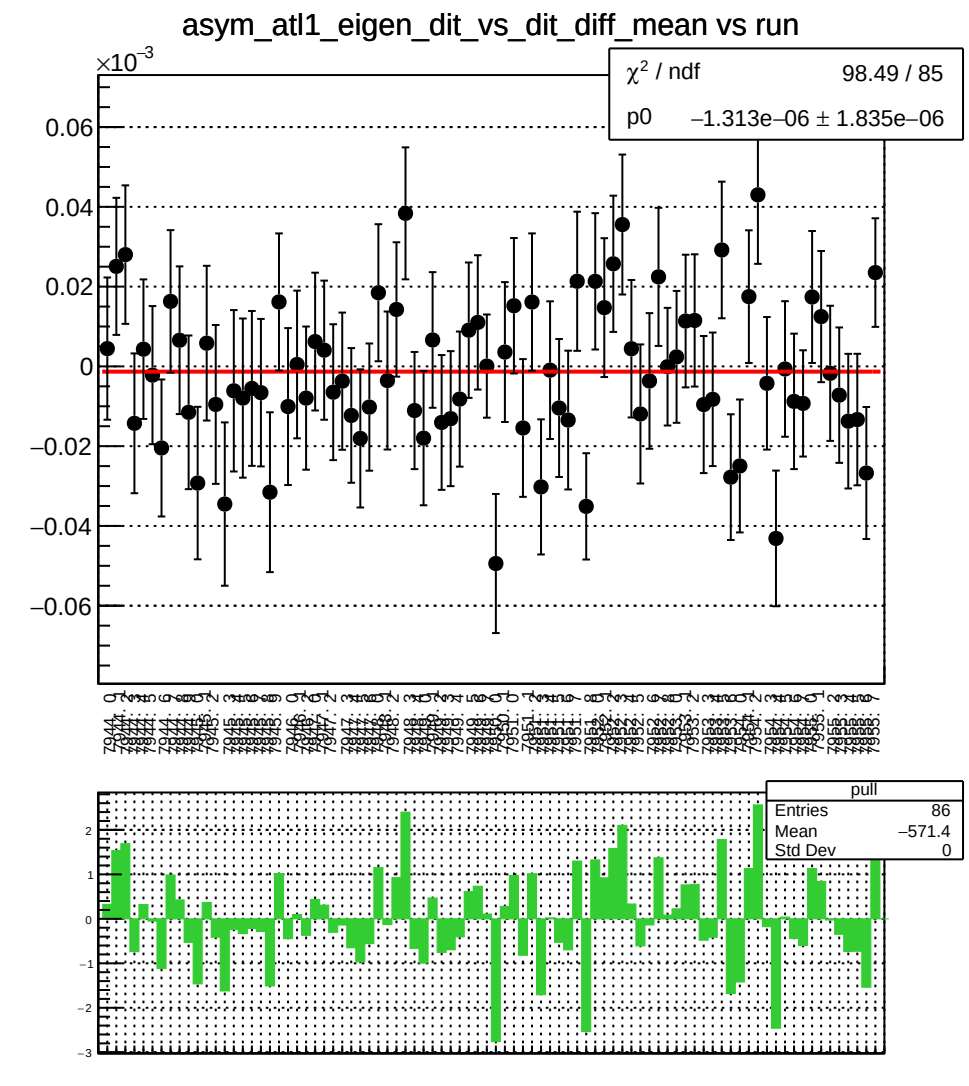

pull1D
Entries 86
Mean 0.05523
Std Dev 1.025

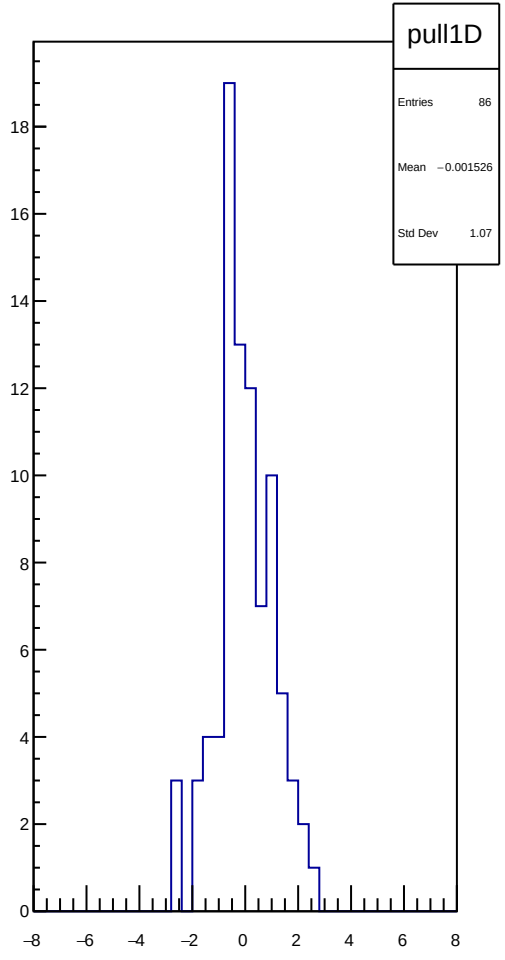

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.397e+05 / 85
p0 121.7 ± 0.1001
350
300
250
200
150
100
50

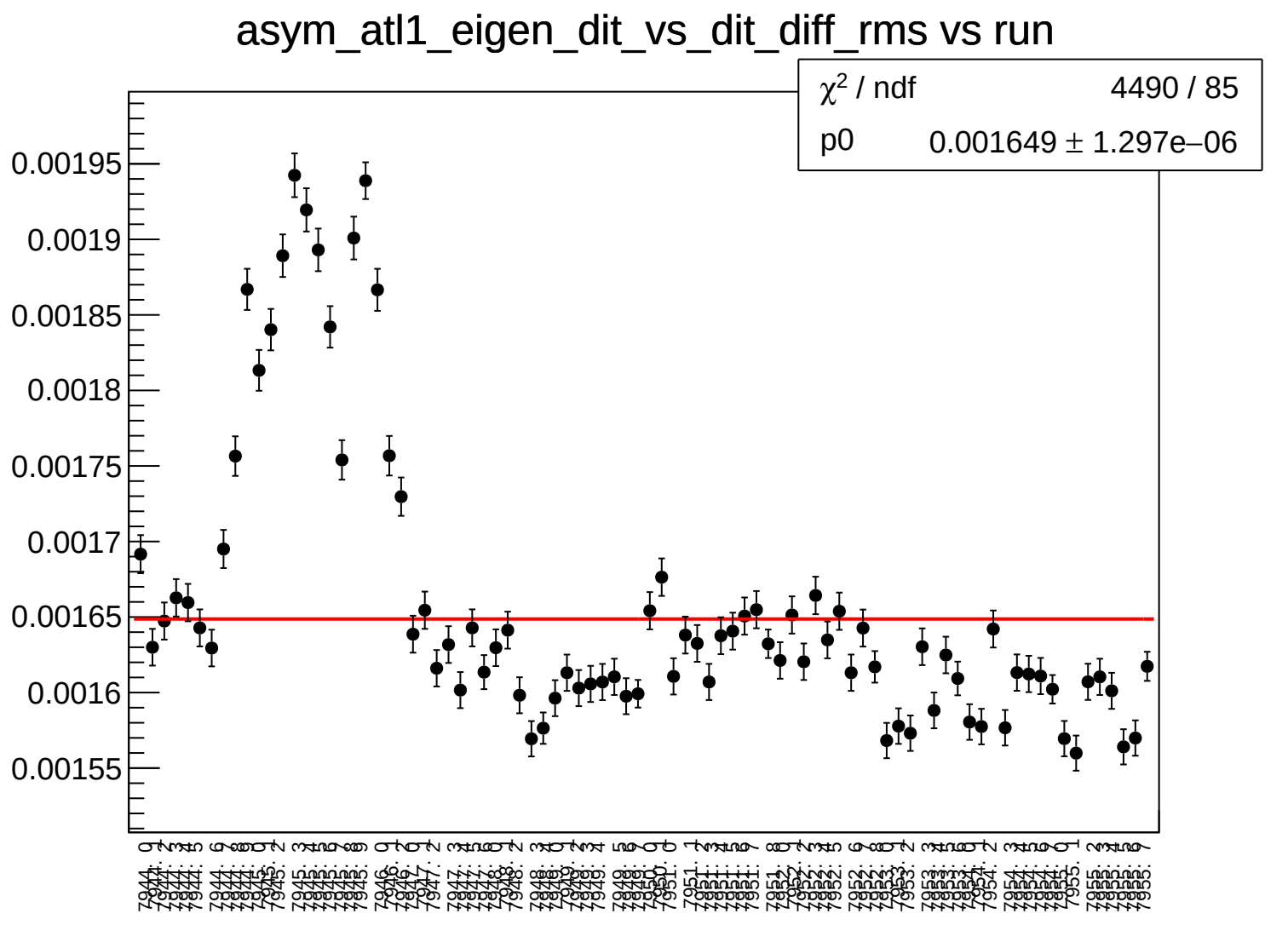

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.6 / 85
p0 0.1136 ± 0.1415
pull
Entries 86
Mean 44.78
Std Dev 37.8

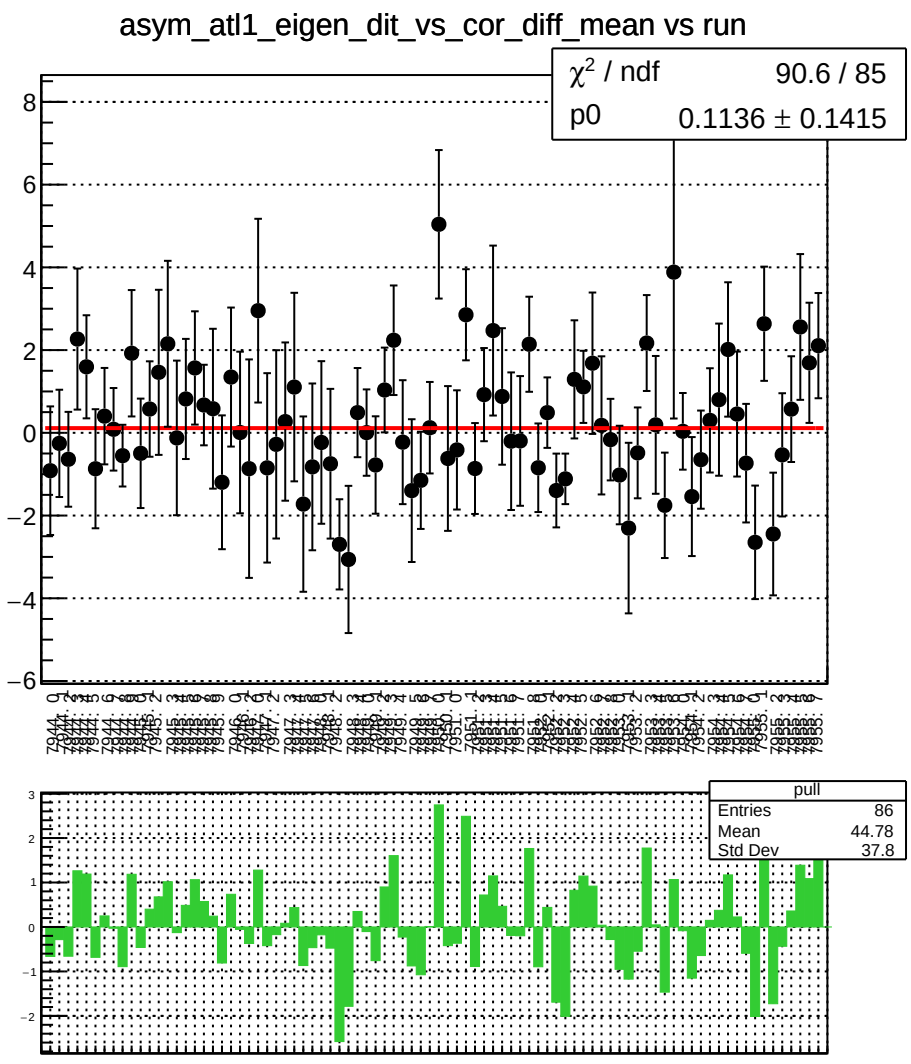

pull1D
Entries 86
Mean 0.05523
Std Dev 1.025

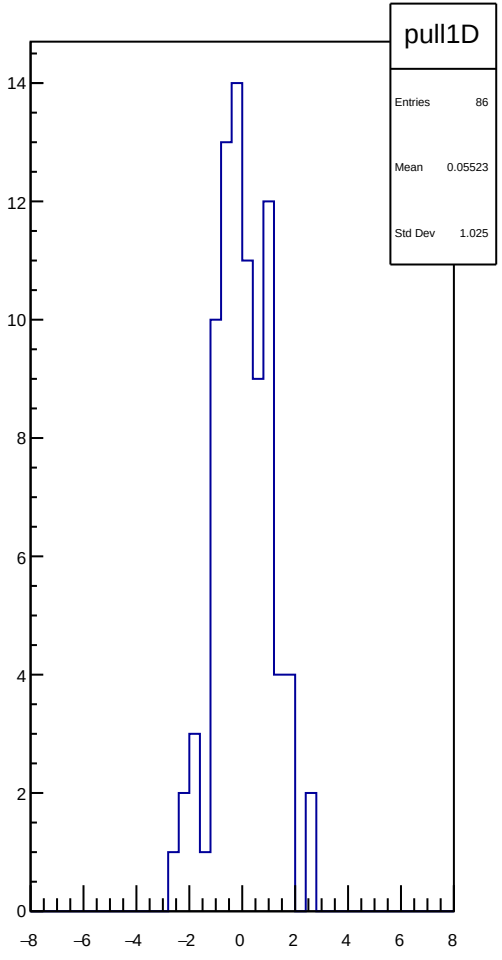

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.397e+05 / 85
p0 121.7 ± 0.1001
350
300
250
200
150
100
50

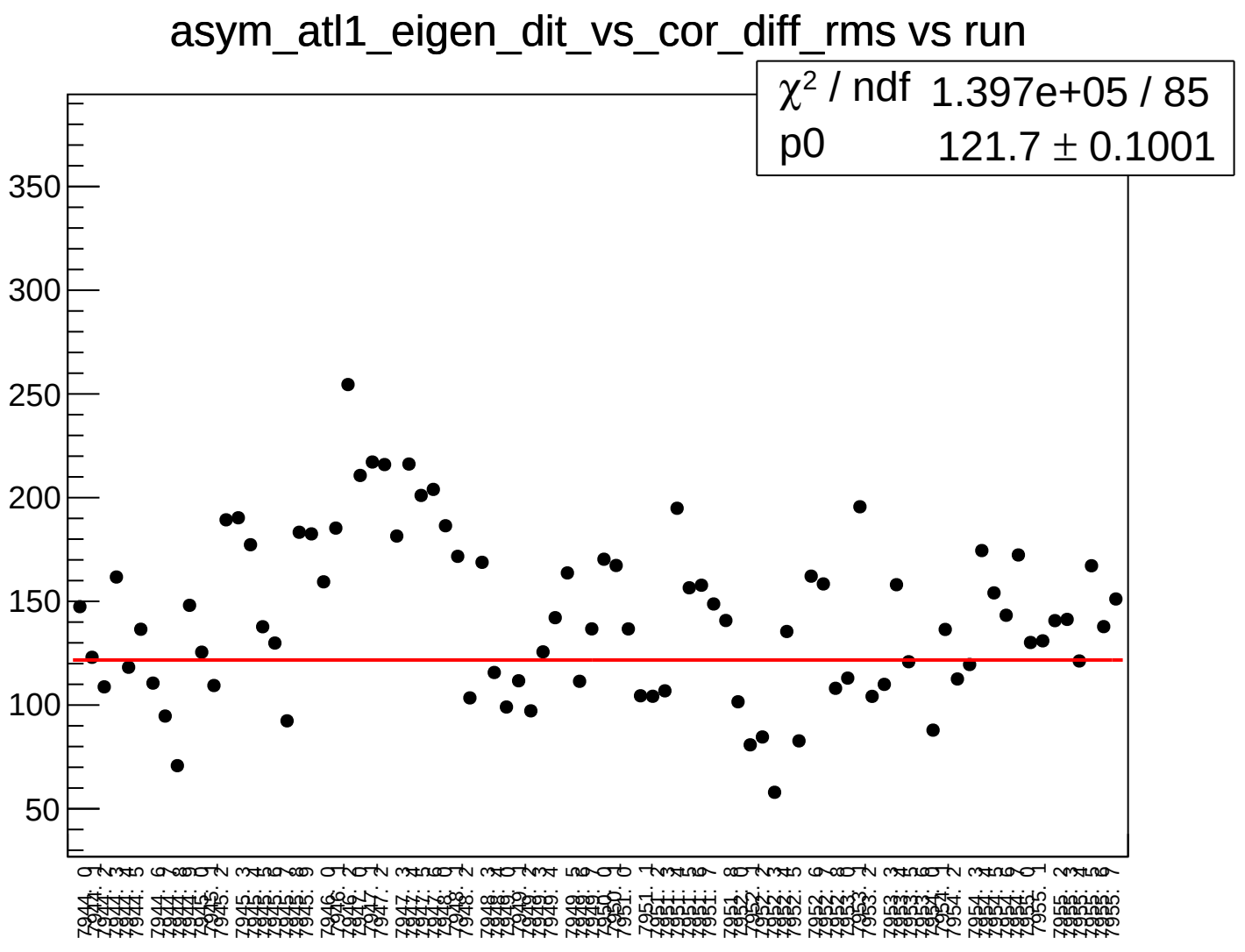

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.49 / 85
p0 −1.313e−06 ± 1.835e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −571.4
Std Dev 0
2
1
0
−1
−2
−3

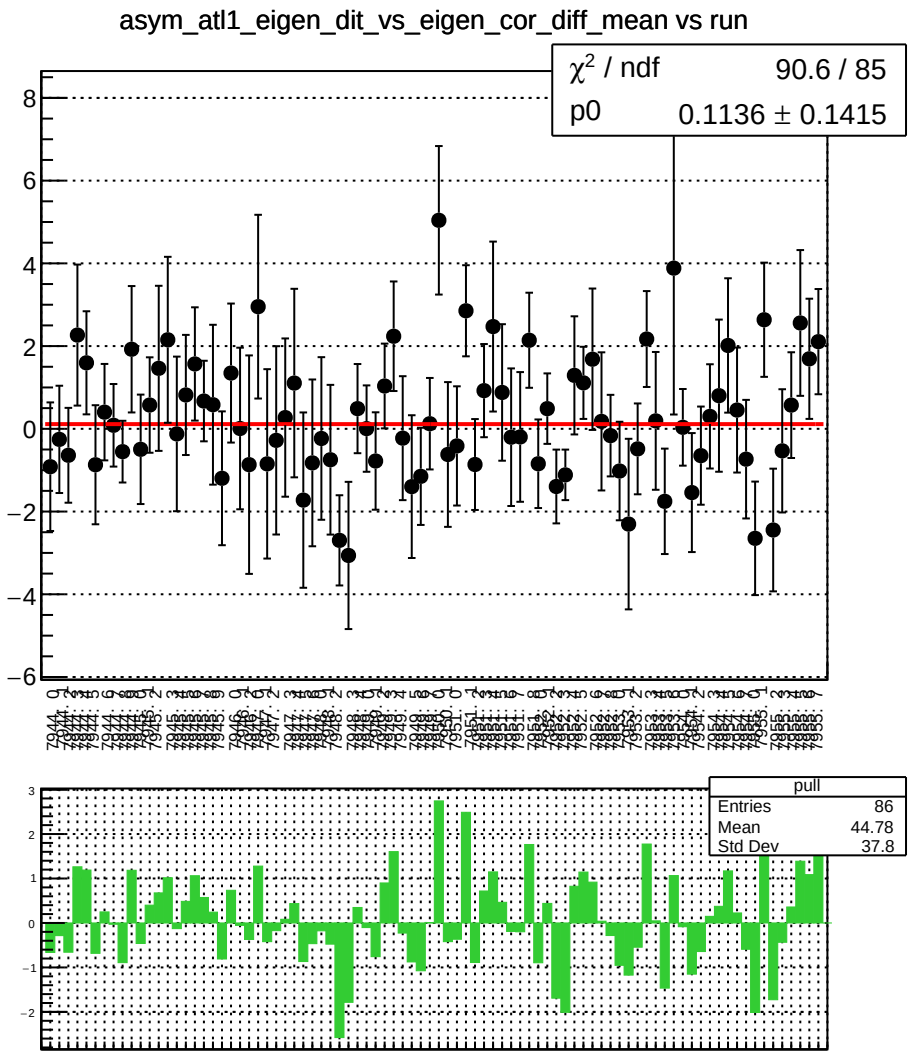

pull1D
Entries 86
Mean −0.001526
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

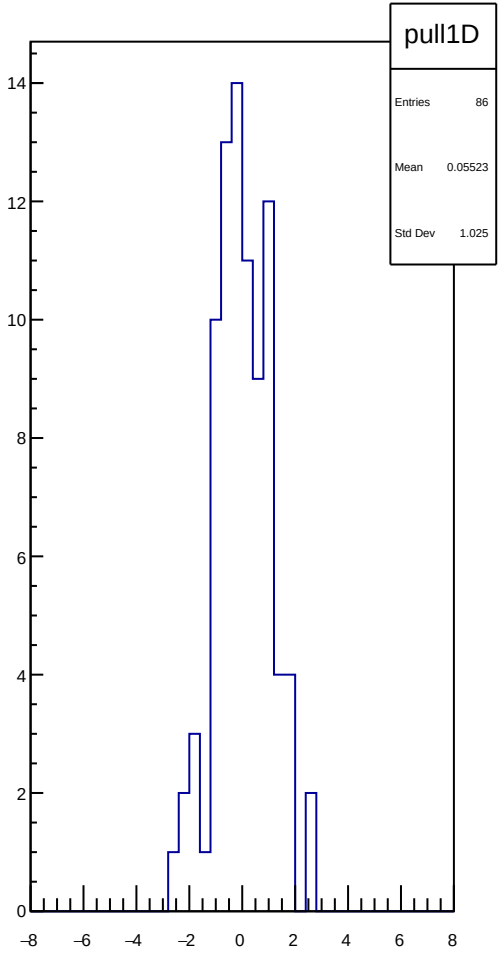

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4490 / 85
p0 0.001649 ± 1.297e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155

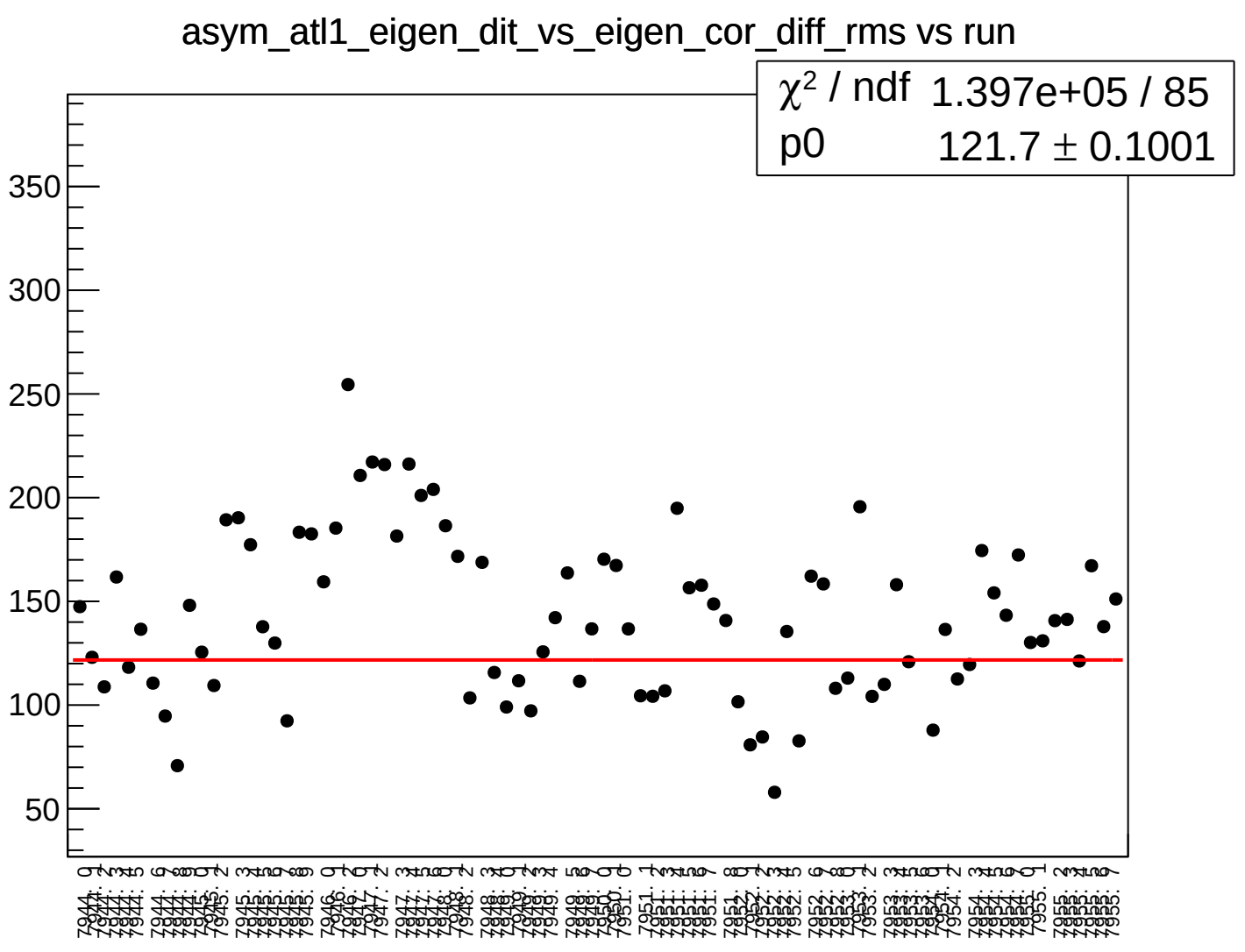

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.6 / 85
p0 0.1136 ± 0.1415
pull
Entries 86
Mean 44.78
Std Dev 37.8

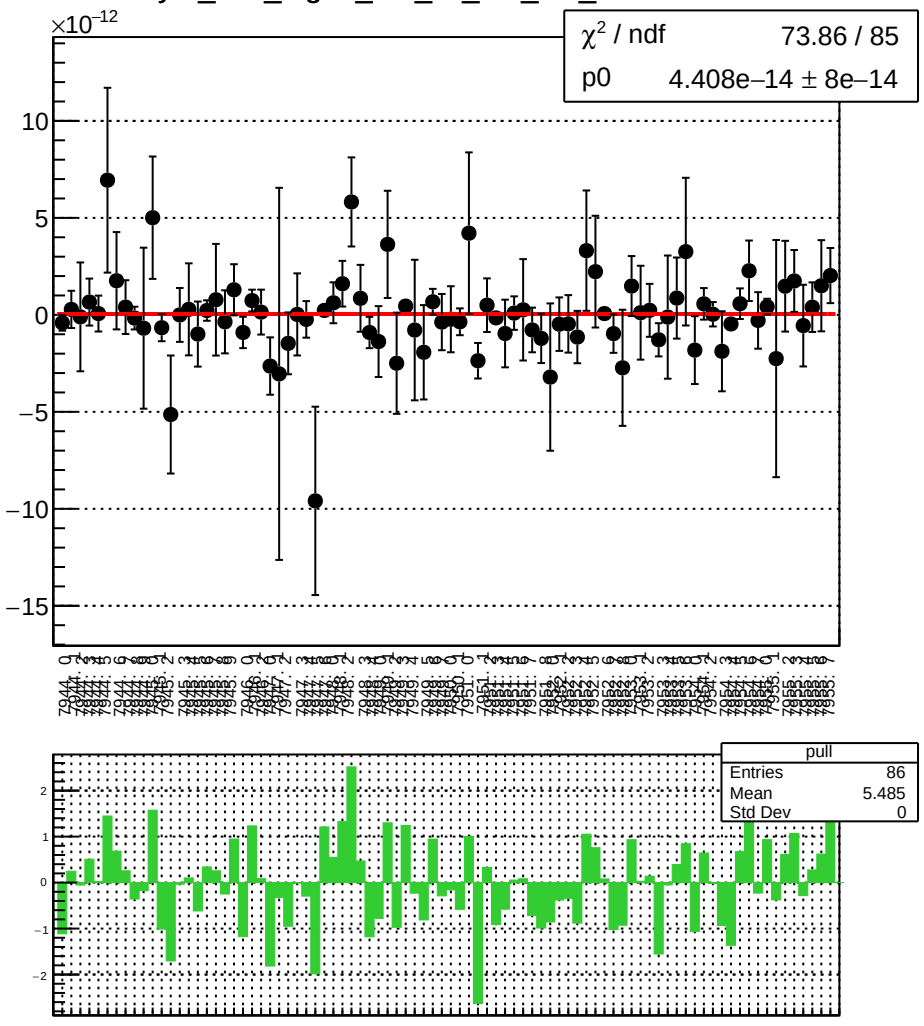

pull1D
Entries 86
Mean 0.05523
Std Dev 1.025

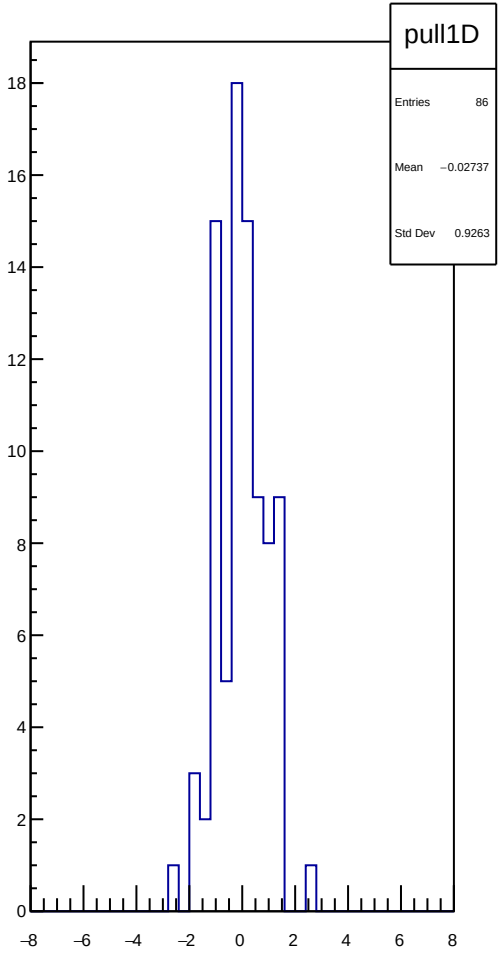

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.397e+05 / 85
p0 121.7 ± 0.1001
350
300
250
200
150
100
50

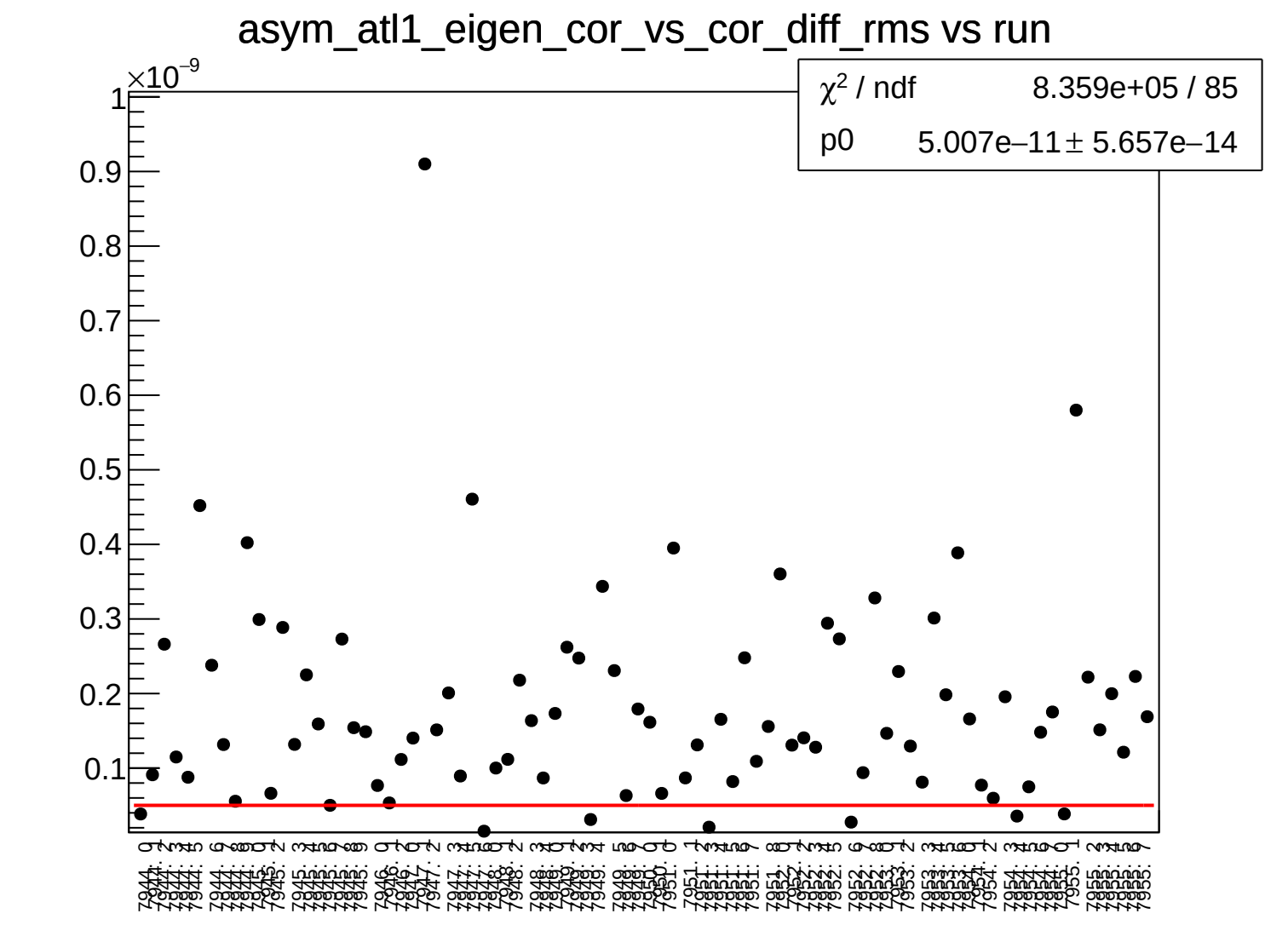

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.6 / 85
p0 0.1136 ± 0.1415
pull
Entries 86
Mean 44.78
Std Dev 37.8

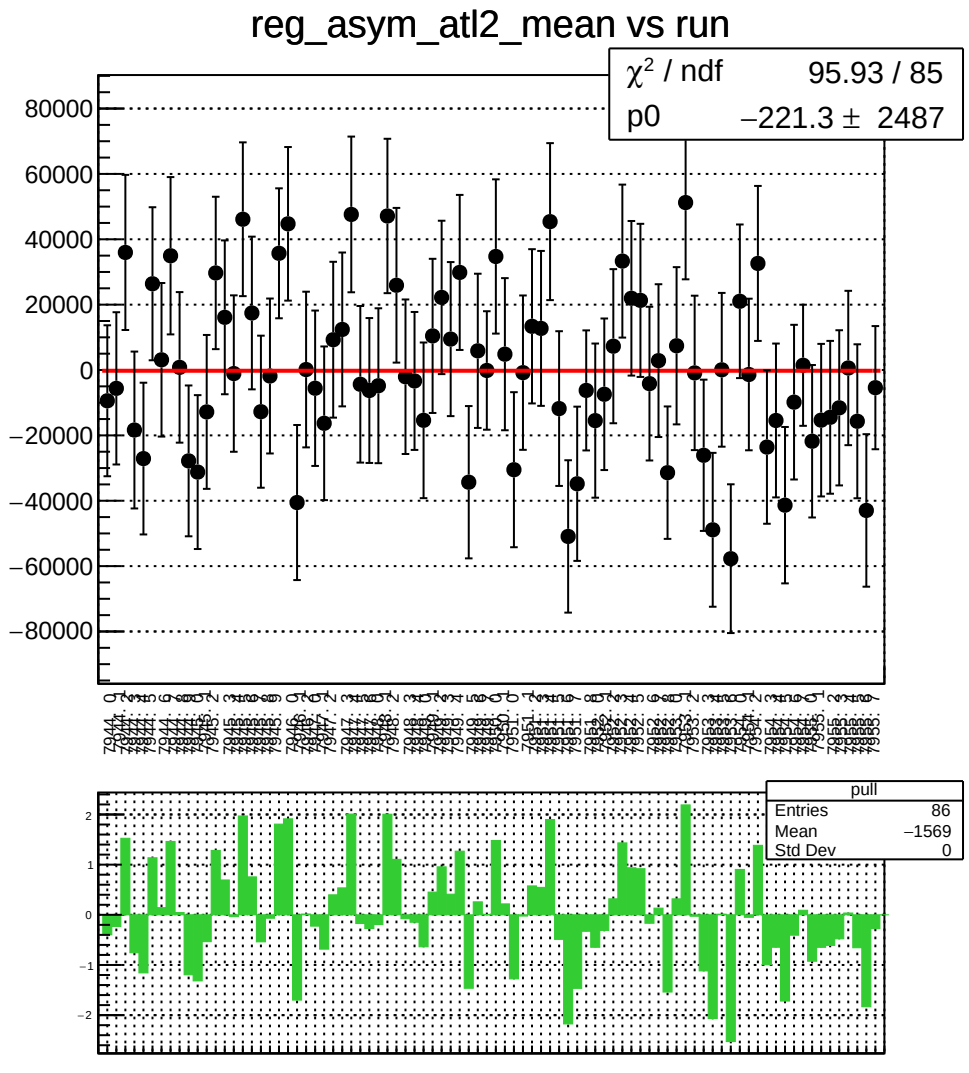

pull1D
Entries 86
Mean 0.05523
Std Dev 1.025

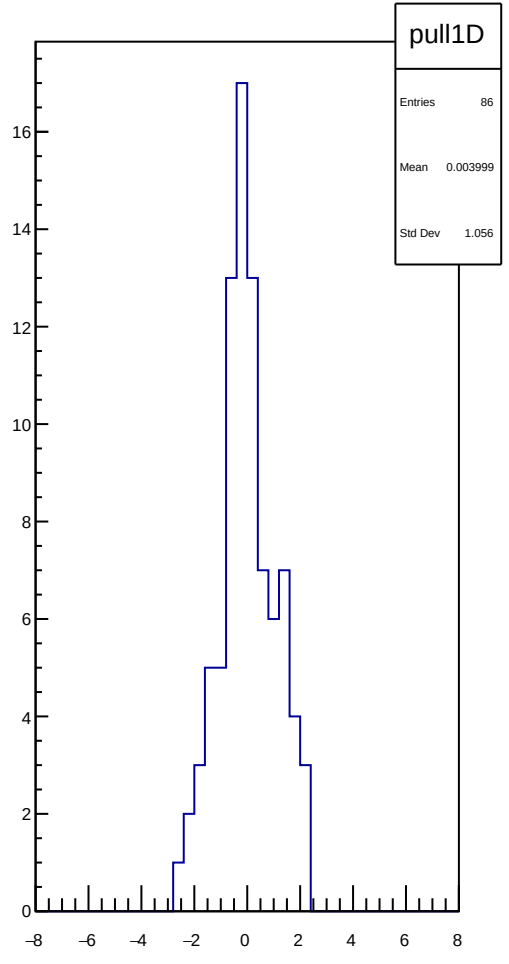

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.397e+05 / 85
p0 121.7 ± 0.1001
350
300
250
200
150
100
50

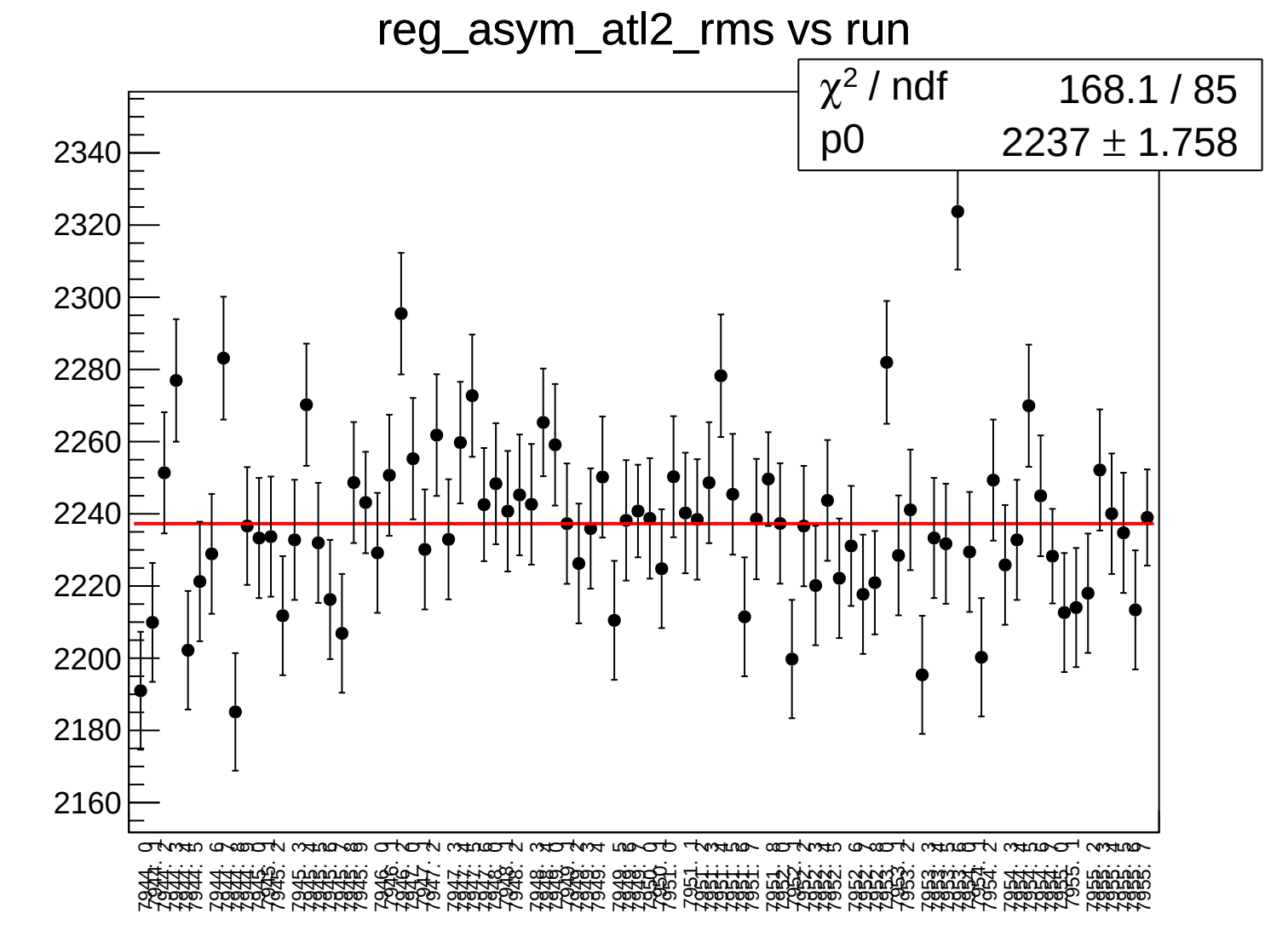

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.86 / 85
p0 4.408e−14 ± 8e−14
pull
Entries 86
Mean 5.485
Std Dev 0

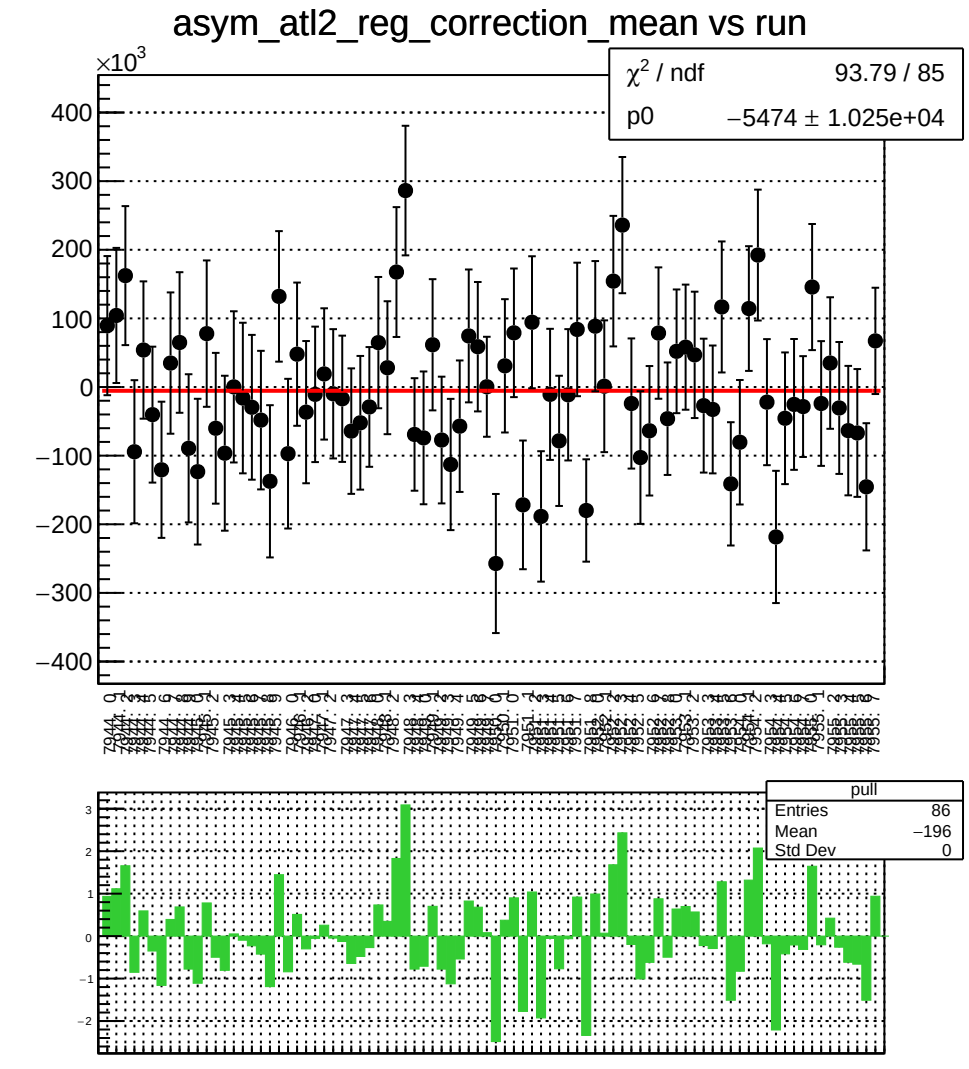

pull1D
Entries 86
Mean −0.02737
Std Dev 0.9263

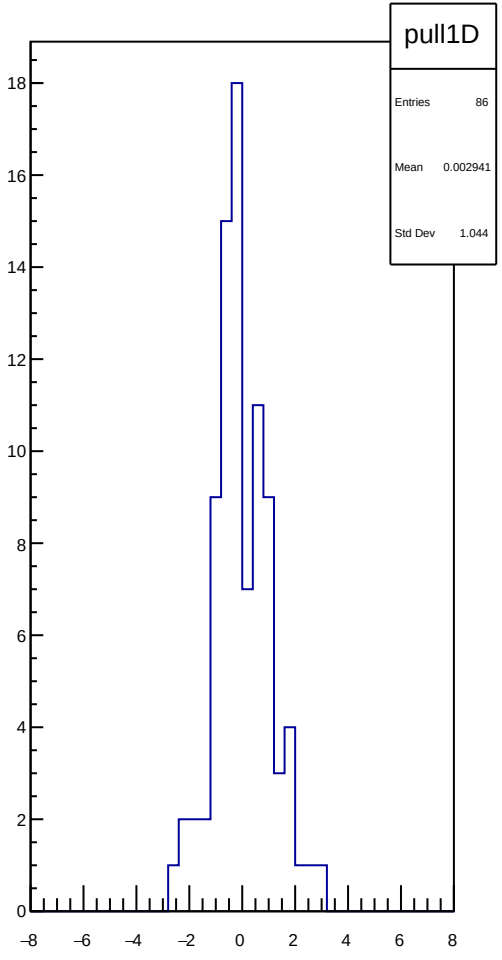

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.359e+05 / 85
p0 5.007e−11 ± 5.657e−14
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

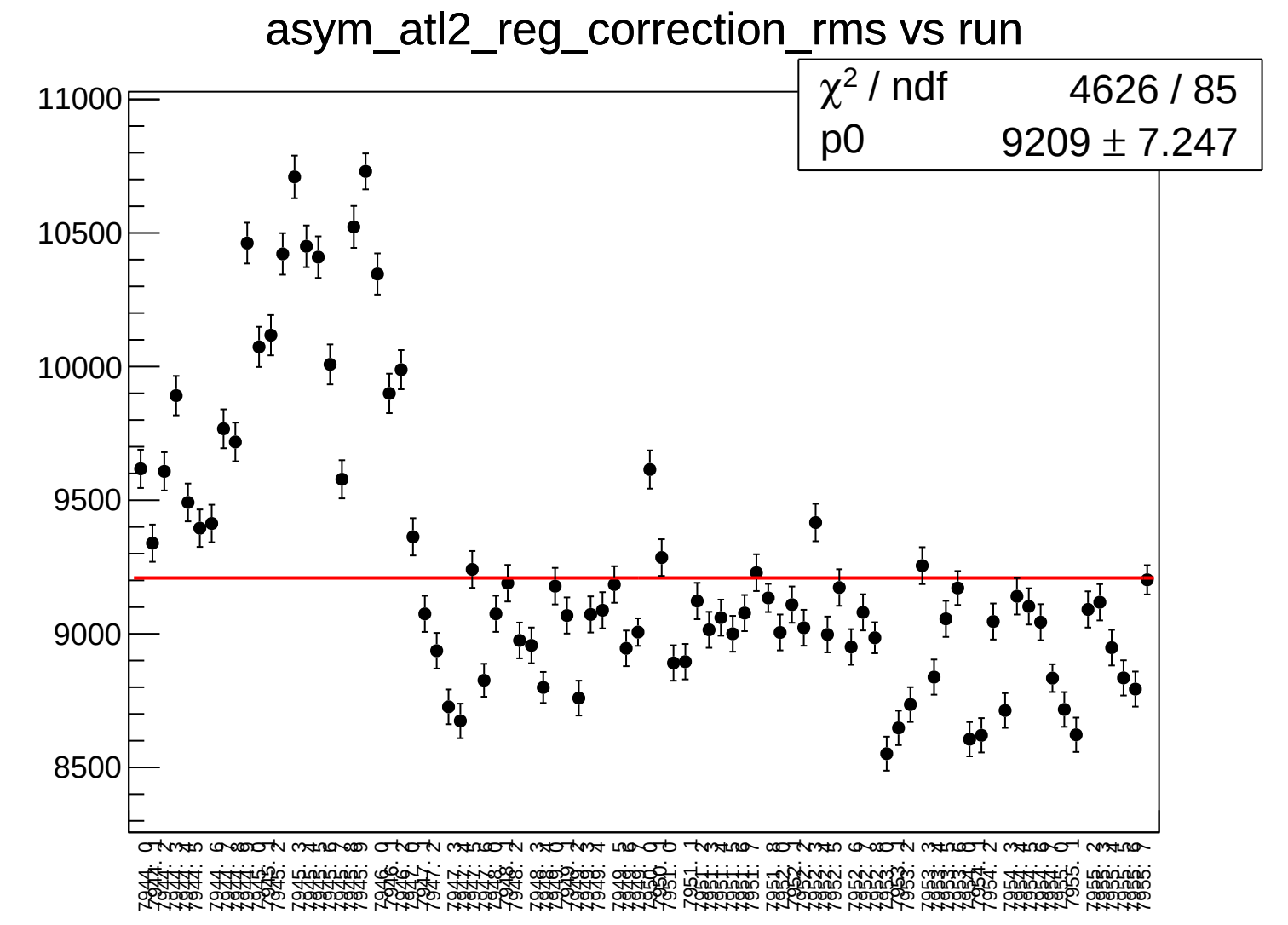

reg_asym_atl2_mean vs run
χ² / ndf 95.93 / 85
p0 −221.3 ± 2487
pull
Entries 86
Mean −1569
Std Dev 0

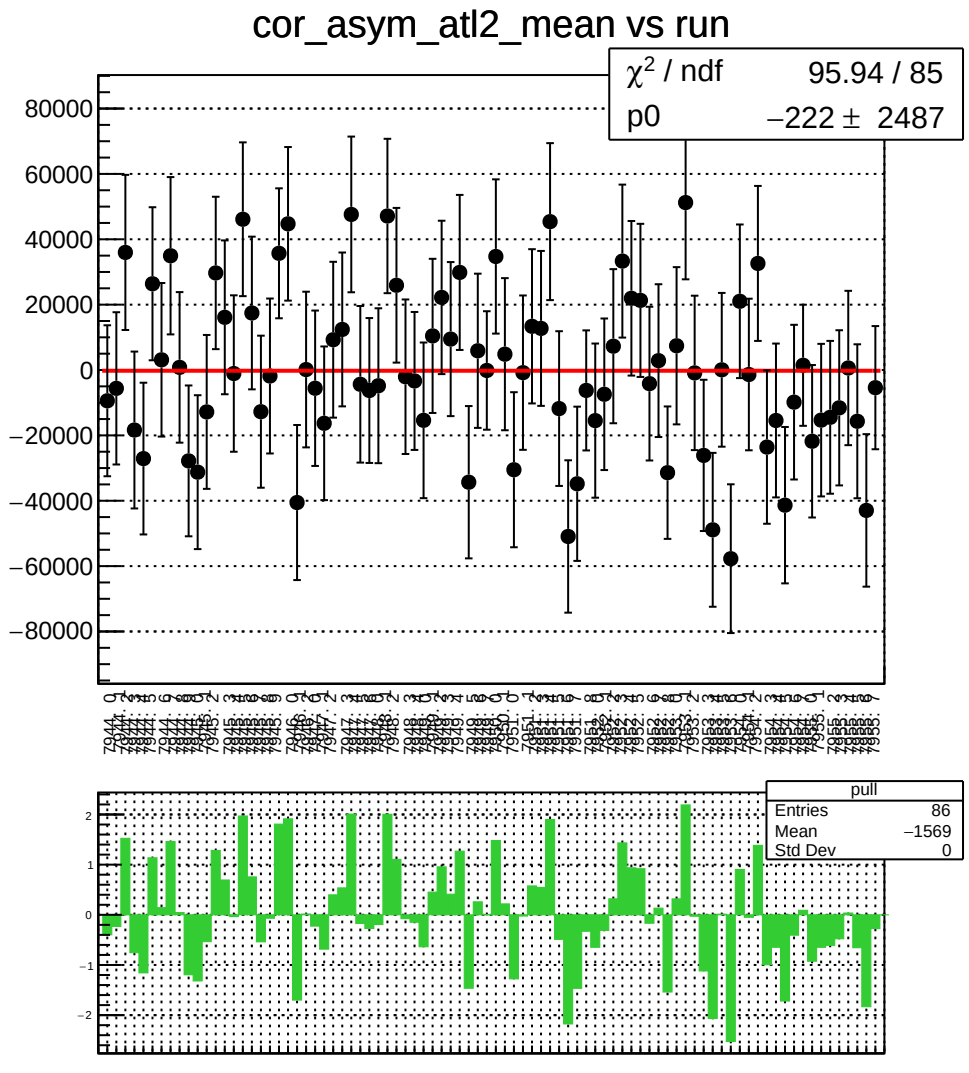

pull1D
Entries 86
Mean 0.003999
Std Dev 1.056

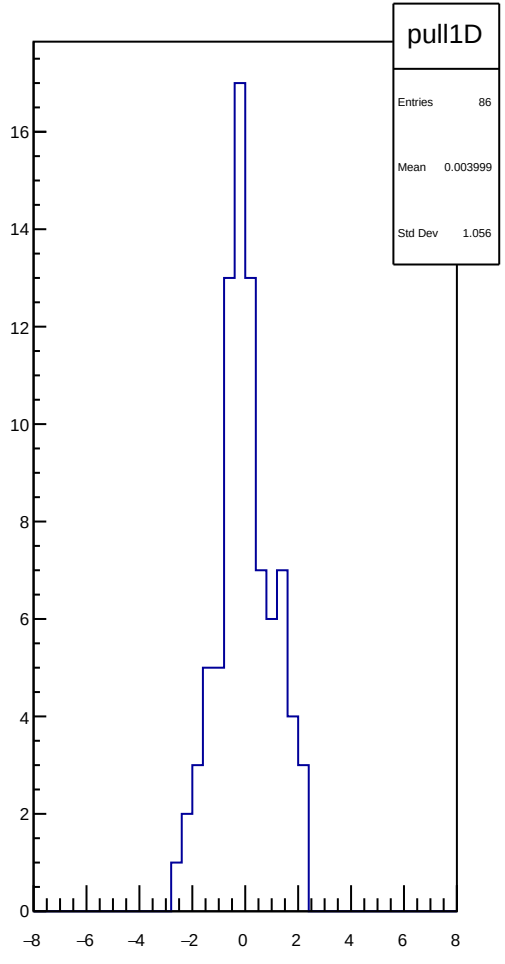

reg_asym_atl2_rms vs run
χ^2 / ndf 168.1 / 85
p0 2237 ± 1.758
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

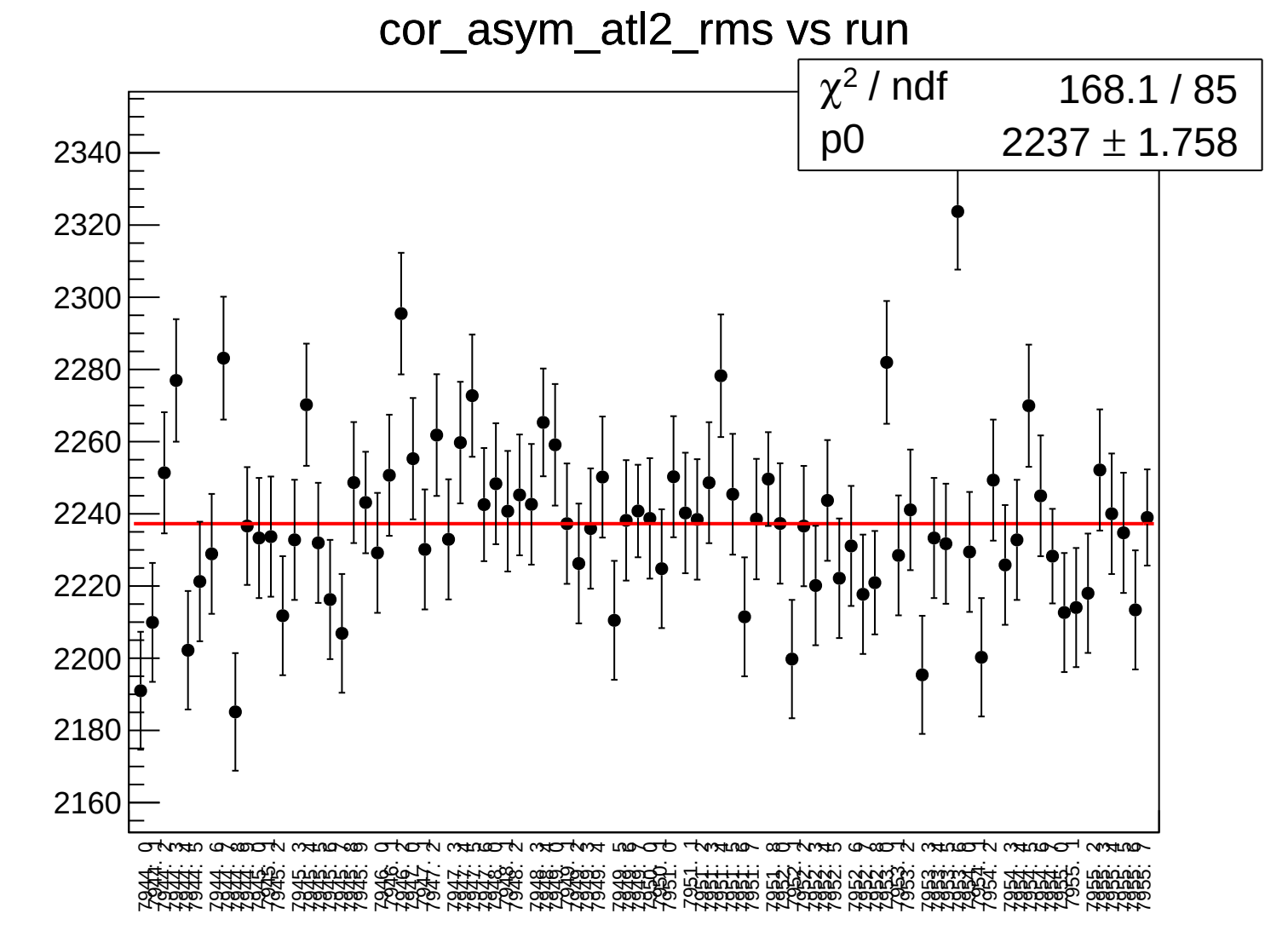

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 93.79 / 85
p0 −5474 ± 1.025e+04
pull
Entries 86
Mean −196
Std Dev 0

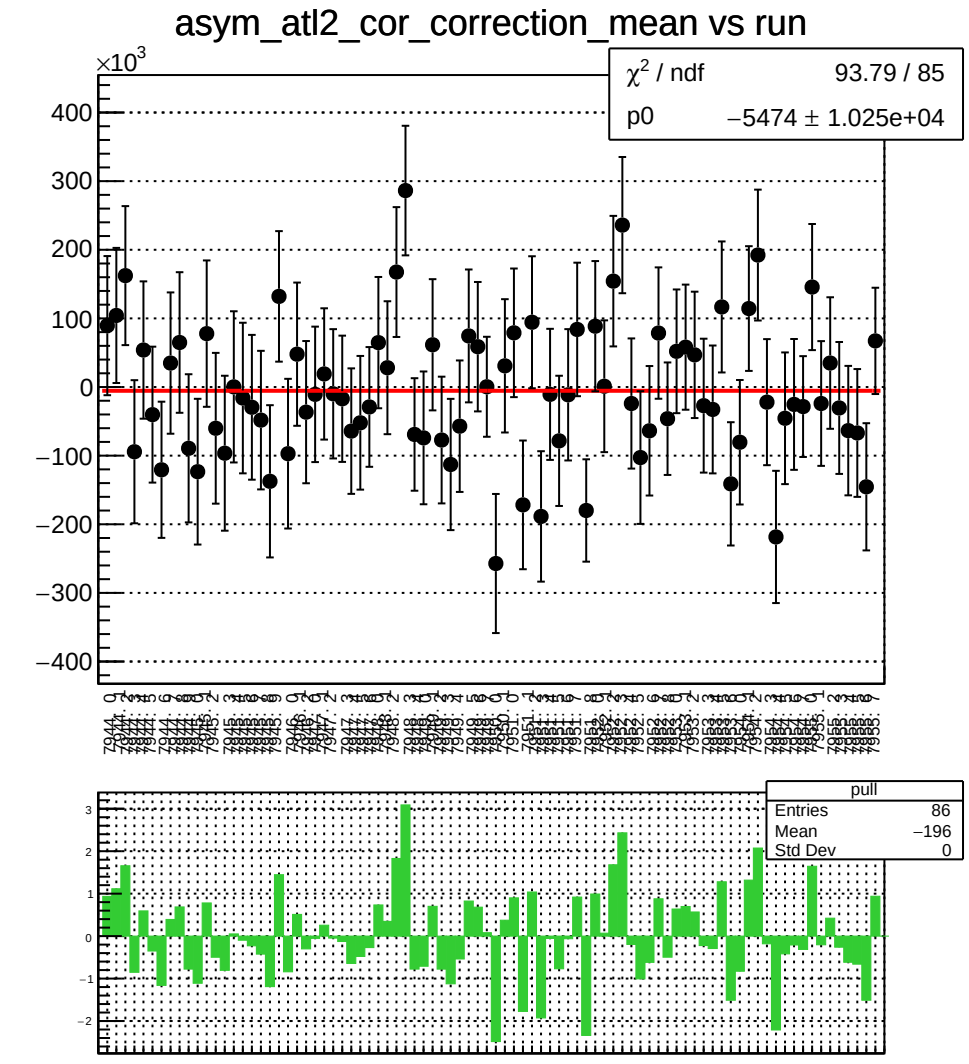

pull1D
Entries 86
Mean 0.002941
Std Dev 1.044

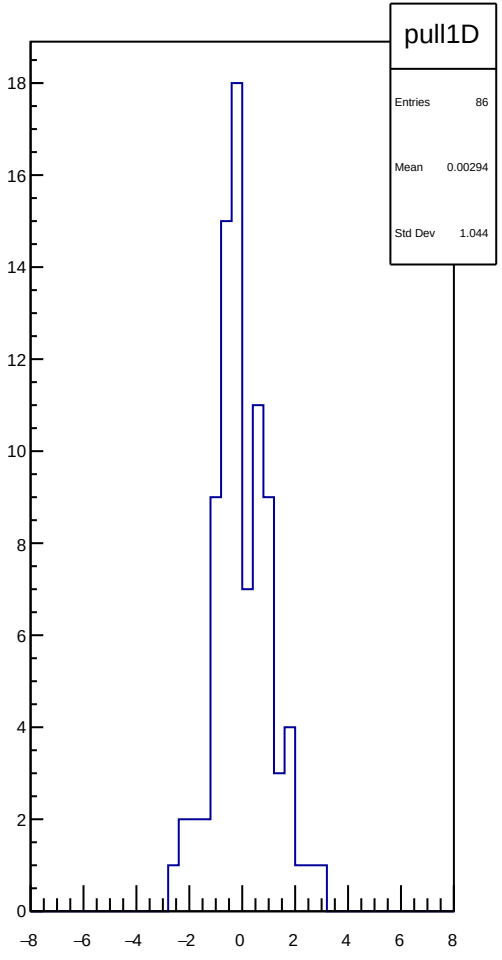

asym_atl2_reg_correction_rms vs run
χ² / ndf 4626 / 85
p0 9209 ± 7.247
11000
10500
10000
9500
9000
8500

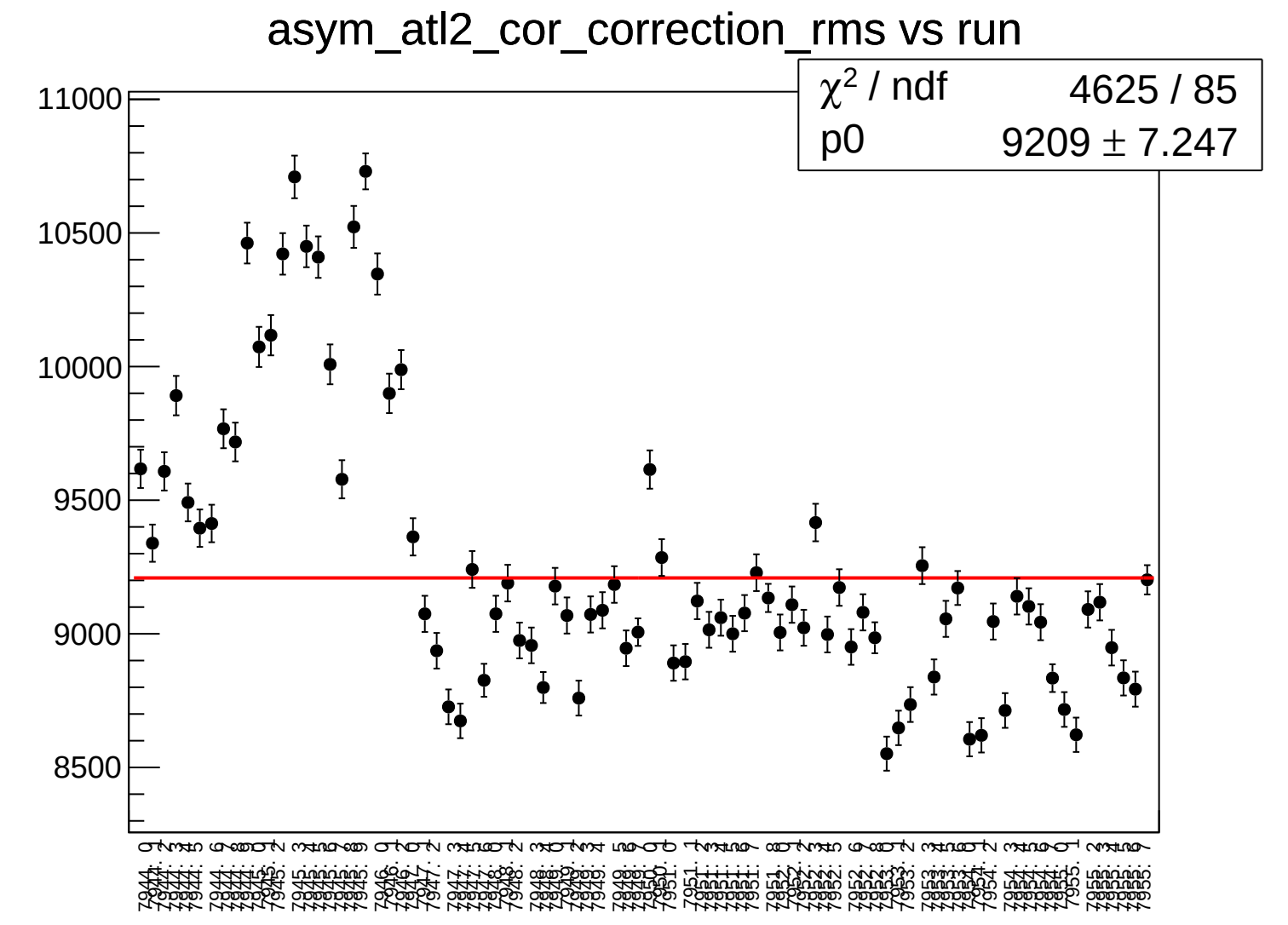

cor_asym_atl2_mean vs run
χ² / ndf 95.94 / 85
p0 −222 ± 2487
pull
Entries 86
Mean −1569
Std Dev 0

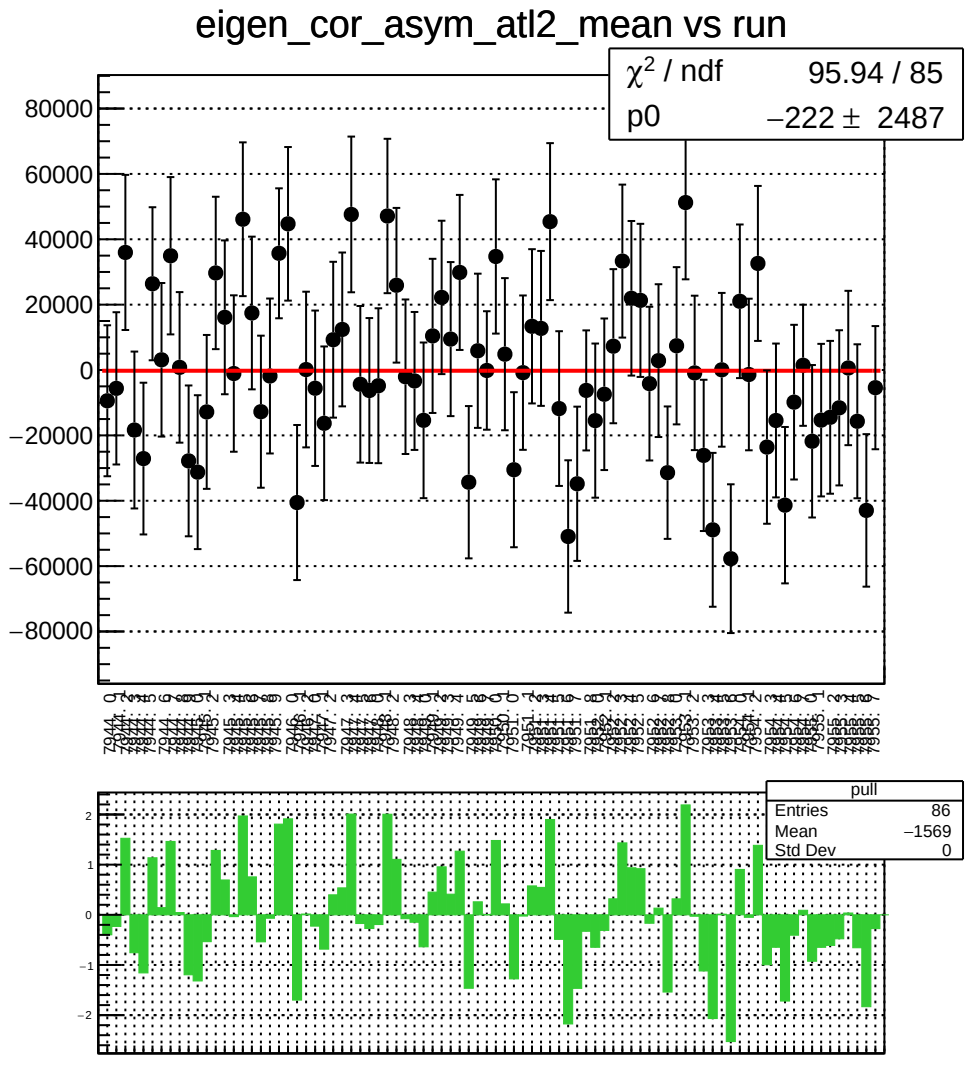

pull1D
Entries 86
Mean 0.003999
Std Dev 1.056

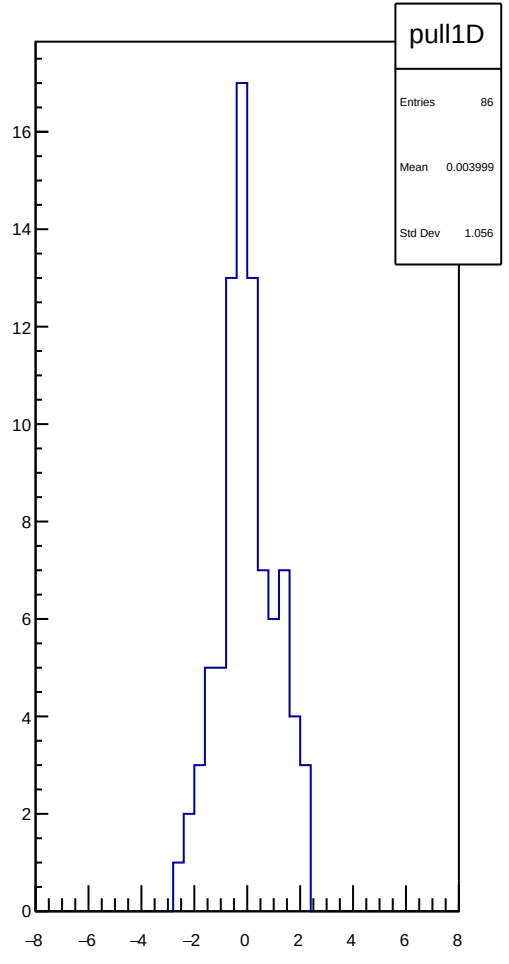

cor_asym_atl2_rms vs run
χ^2 / ndf 168.1 / 85
p0 2237 ± 1.758
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

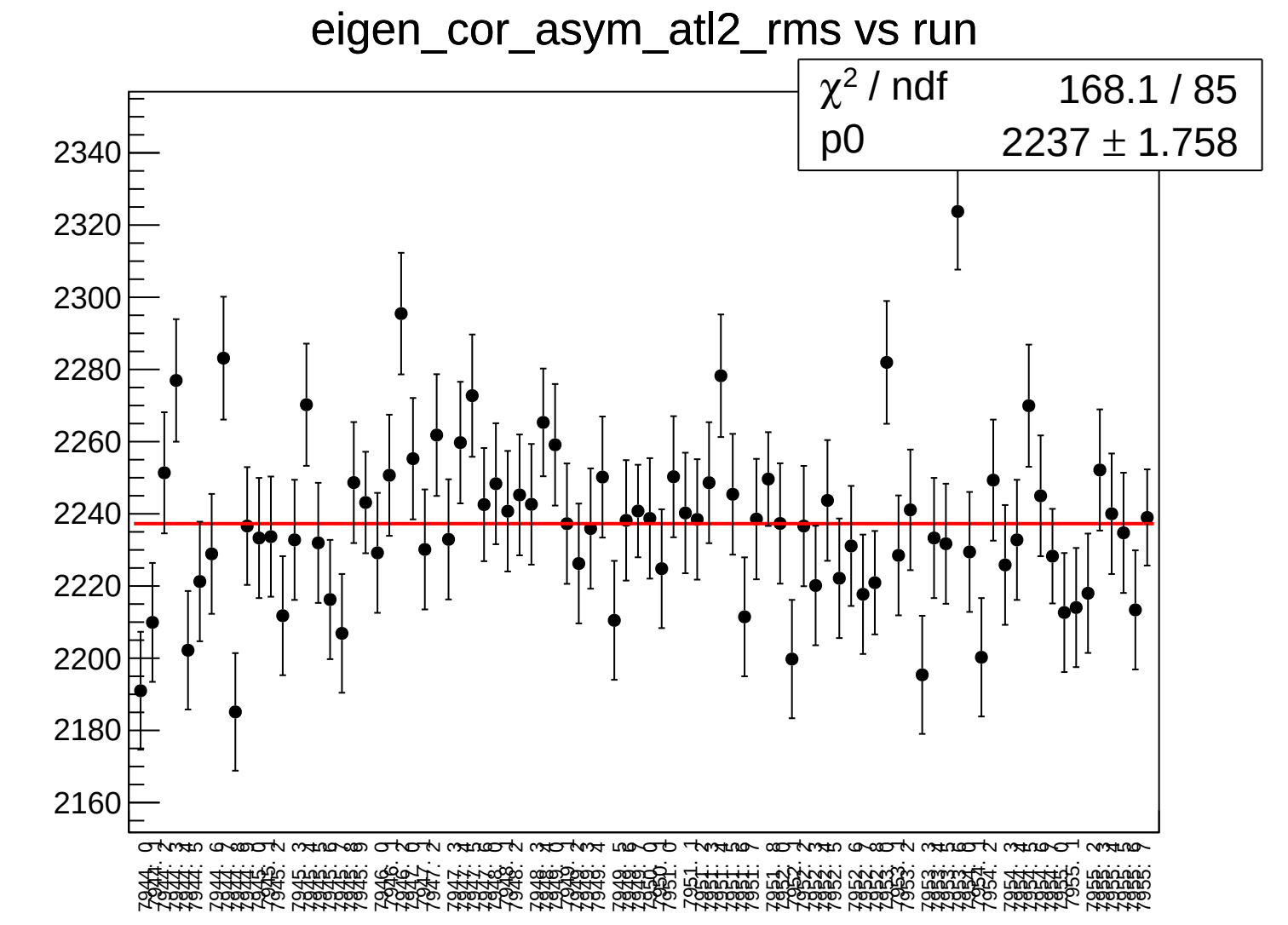

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 93.79 / 85
p0 −5474 ± 1.025e+04
pull
Entries 86
Mean −196
Std Dev 0

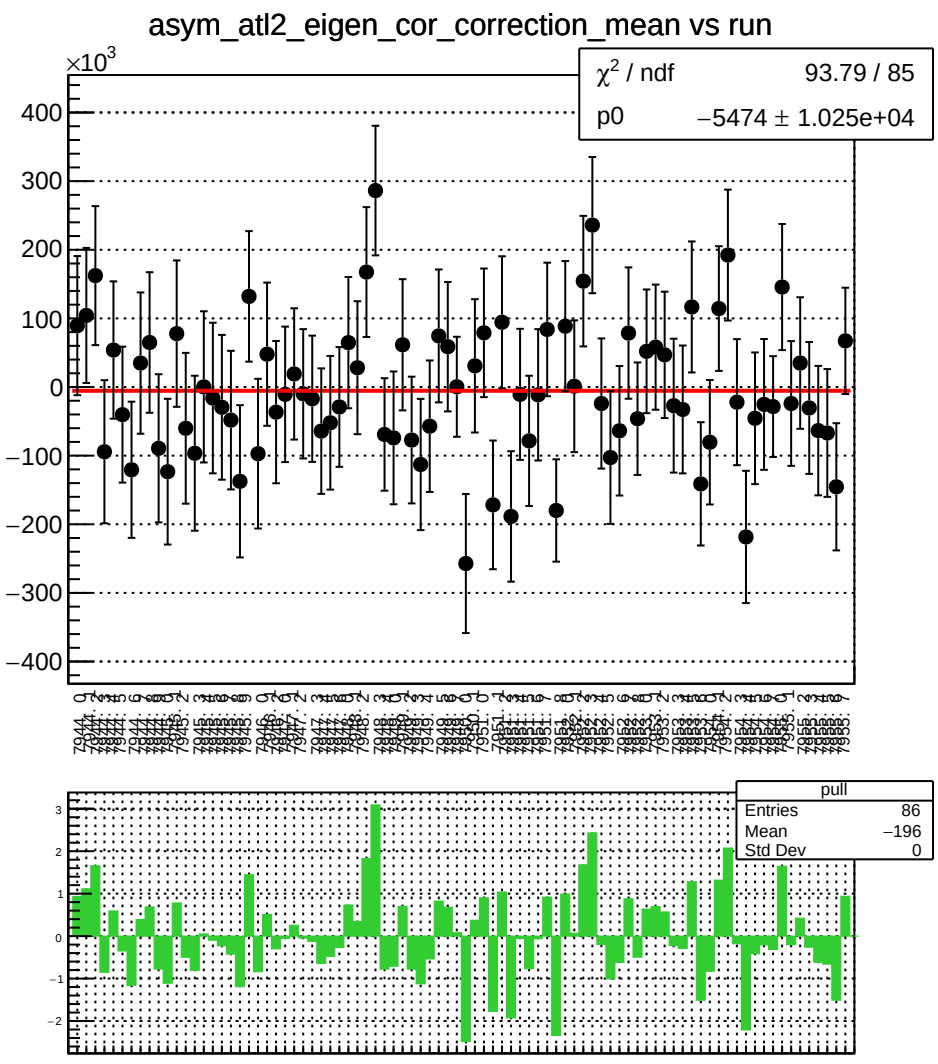

pull1D
Entries 86
Mean 0.00294
Std Dev 1.044

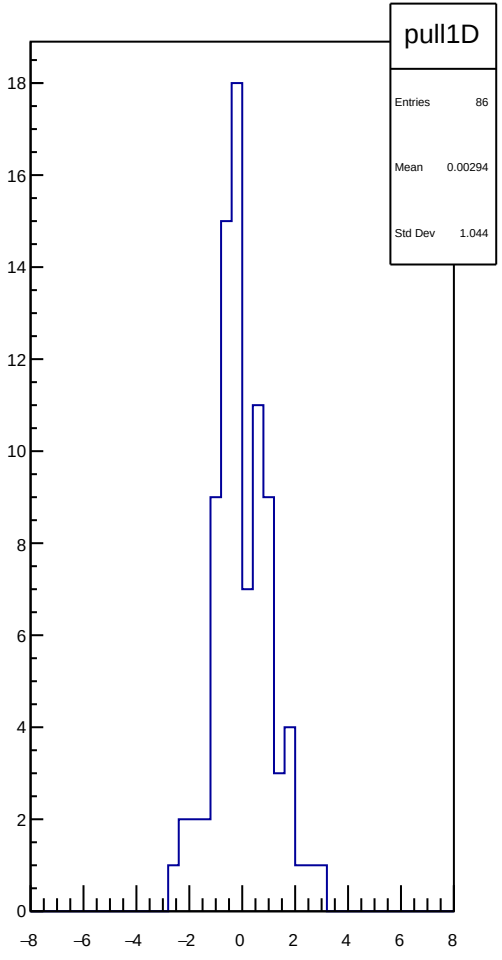

asym_atl2_cor_correction_rms vs run
χ² / ndf 4625 / 85
p0 9209 ± 7.247
11000
10500
10000
9500
9000
8500

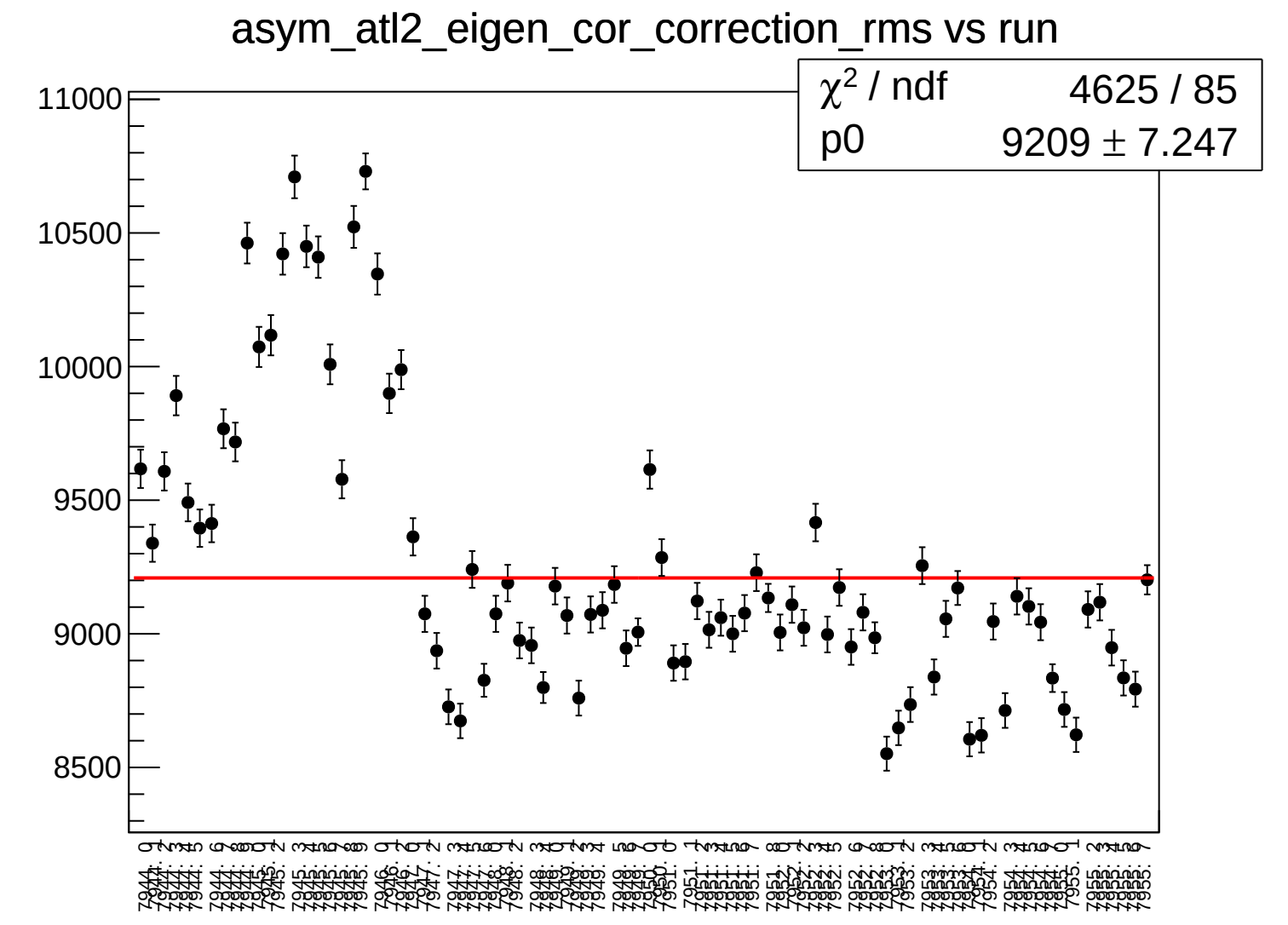

eigen_cor_asym_atl2_mean vs run
χ² / ndf 95.94 / 85
p0 −222 ± 2487
pull
Entries 86
Mean −1569
Std Dev 0

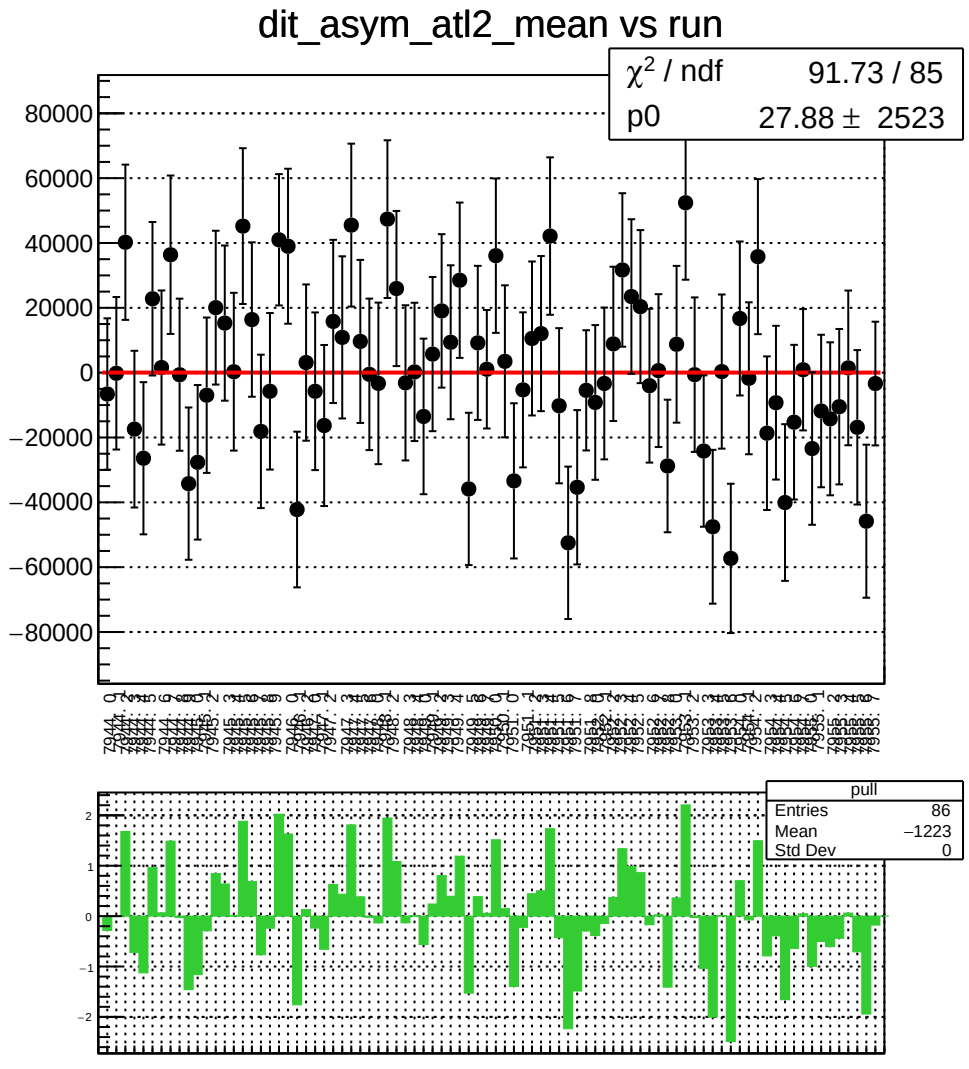

pull1D
Entries 86
Mean 0.003999
Std Dev 1.056

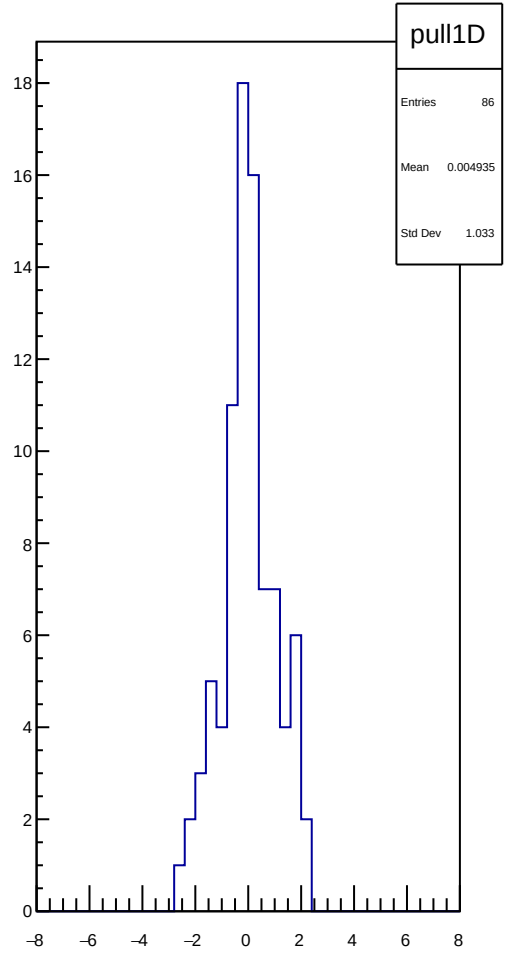

eigen_cor_asym_atl2_rms vs run
χ² / ndf 168.1 / 85
p0 2237 ± 1.758
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

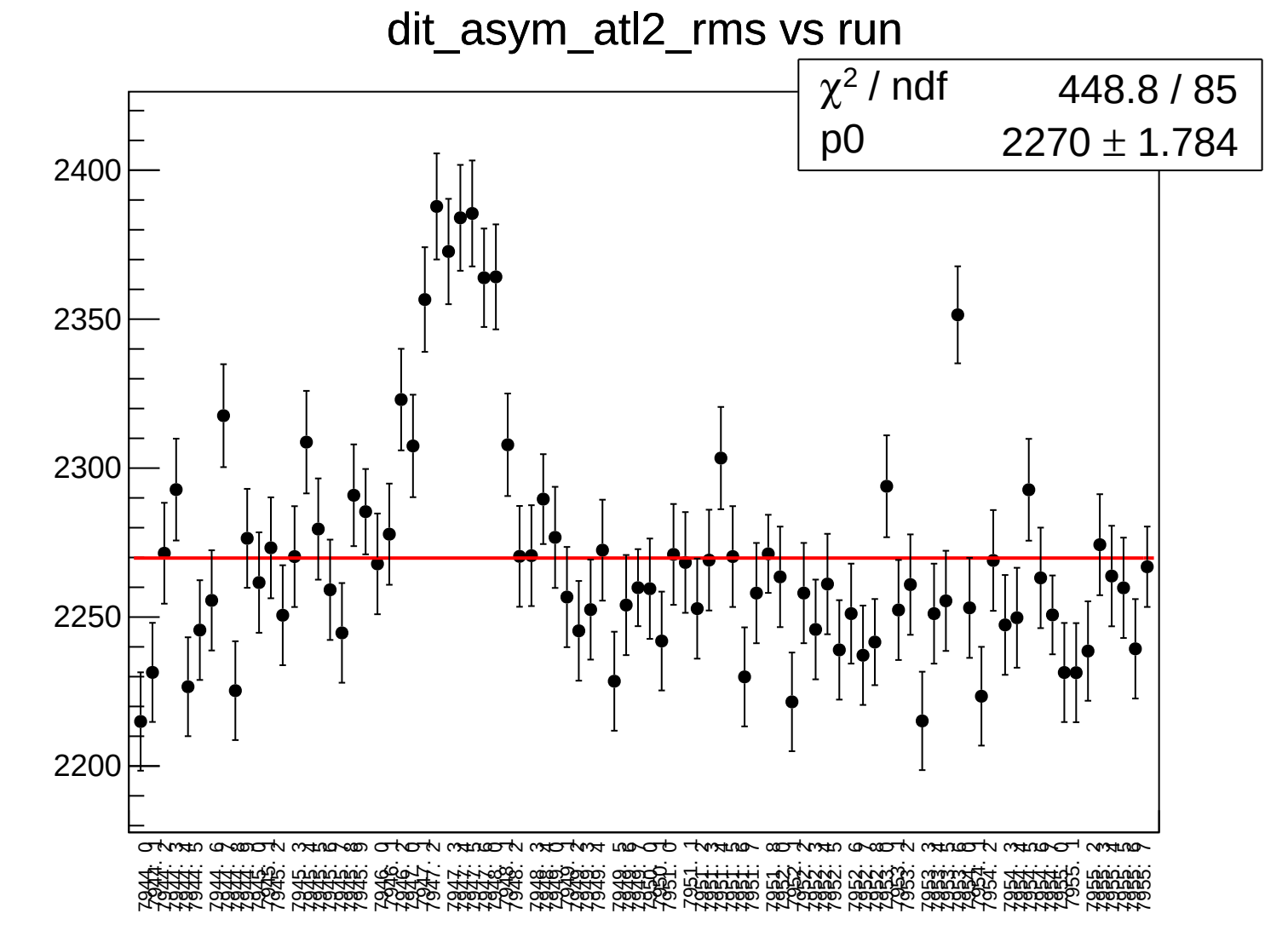

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.79 / 85
p0 −5474 ± 1.025e+04
pull
Entries 86
Mean −196
Std Dev 0

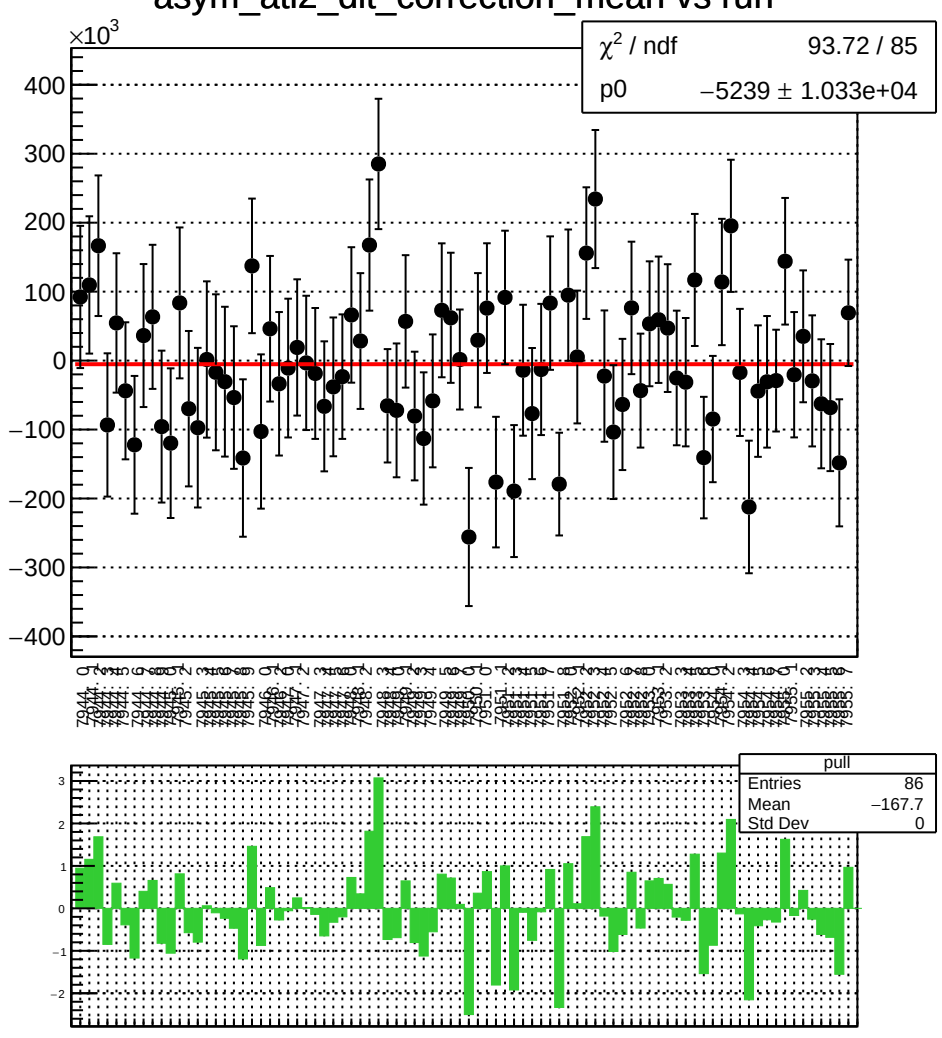

pull1D
Entries 86
Mean 0.00294
Std Dev 1.044

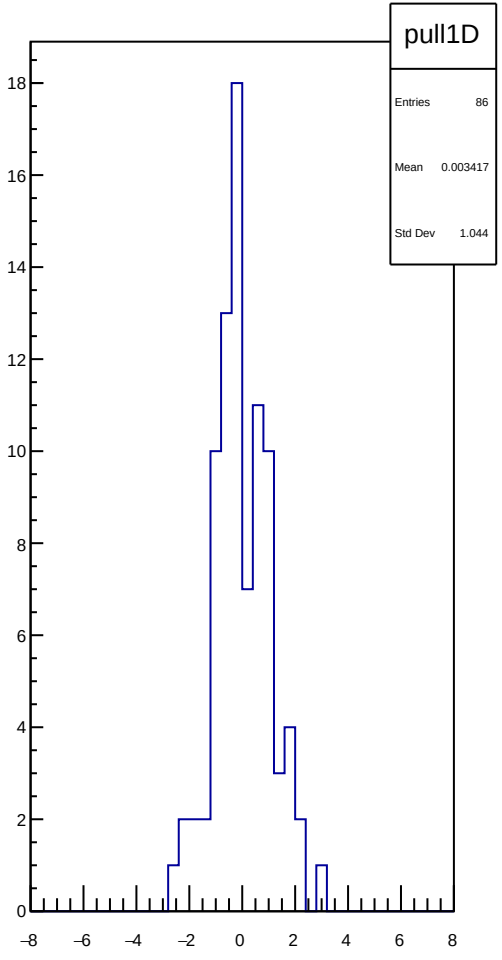

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 4625 / 85
p0 9209 ± 7.247
11000
10500
10000
9500
9000
8500

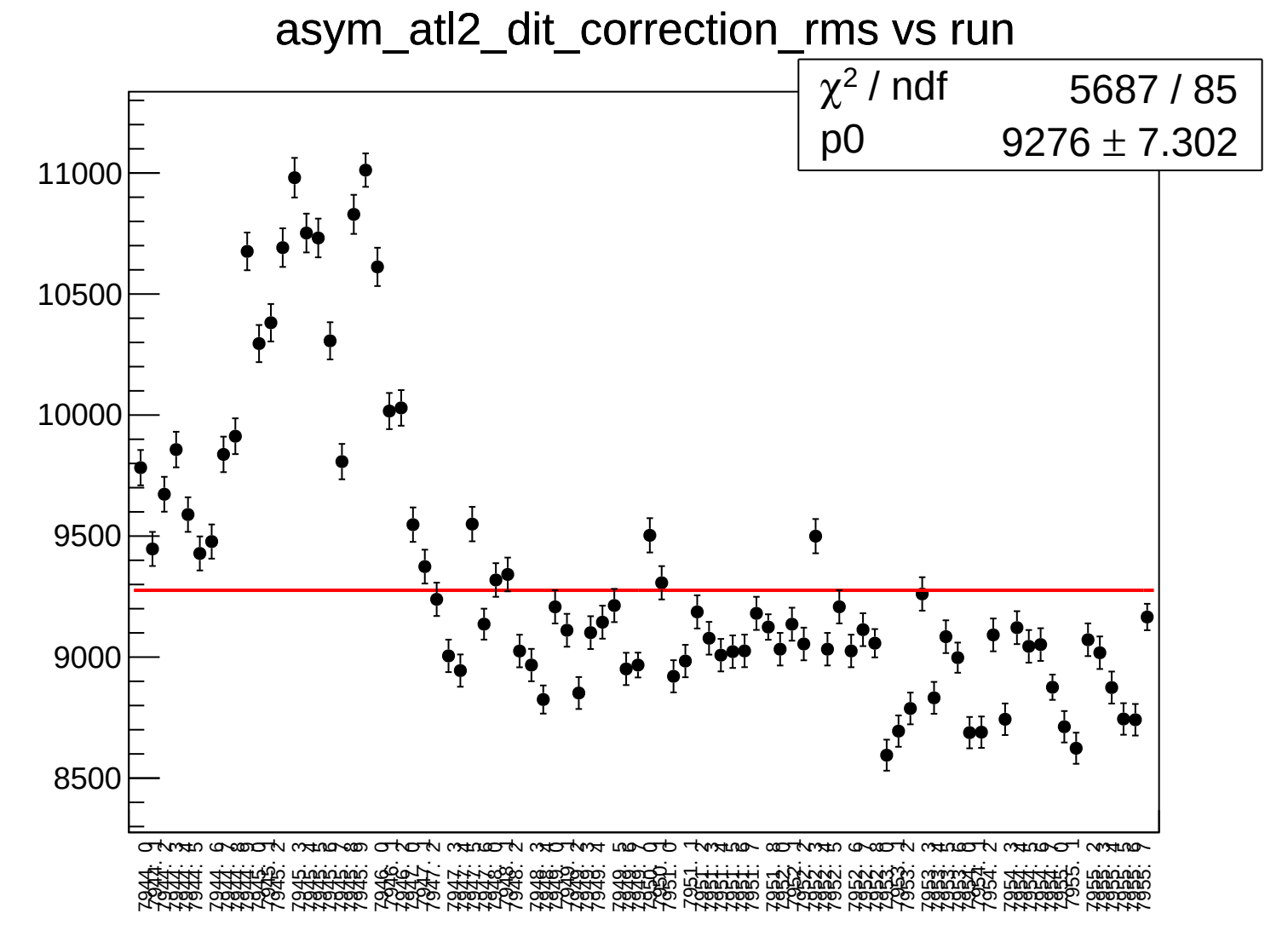

dit_asym_atl2_mean vs run
χ² / ndf 91.73 / 85
p0 27.88 ± 2523
pull
Entries 86
Mean −1223
Std Dev 0

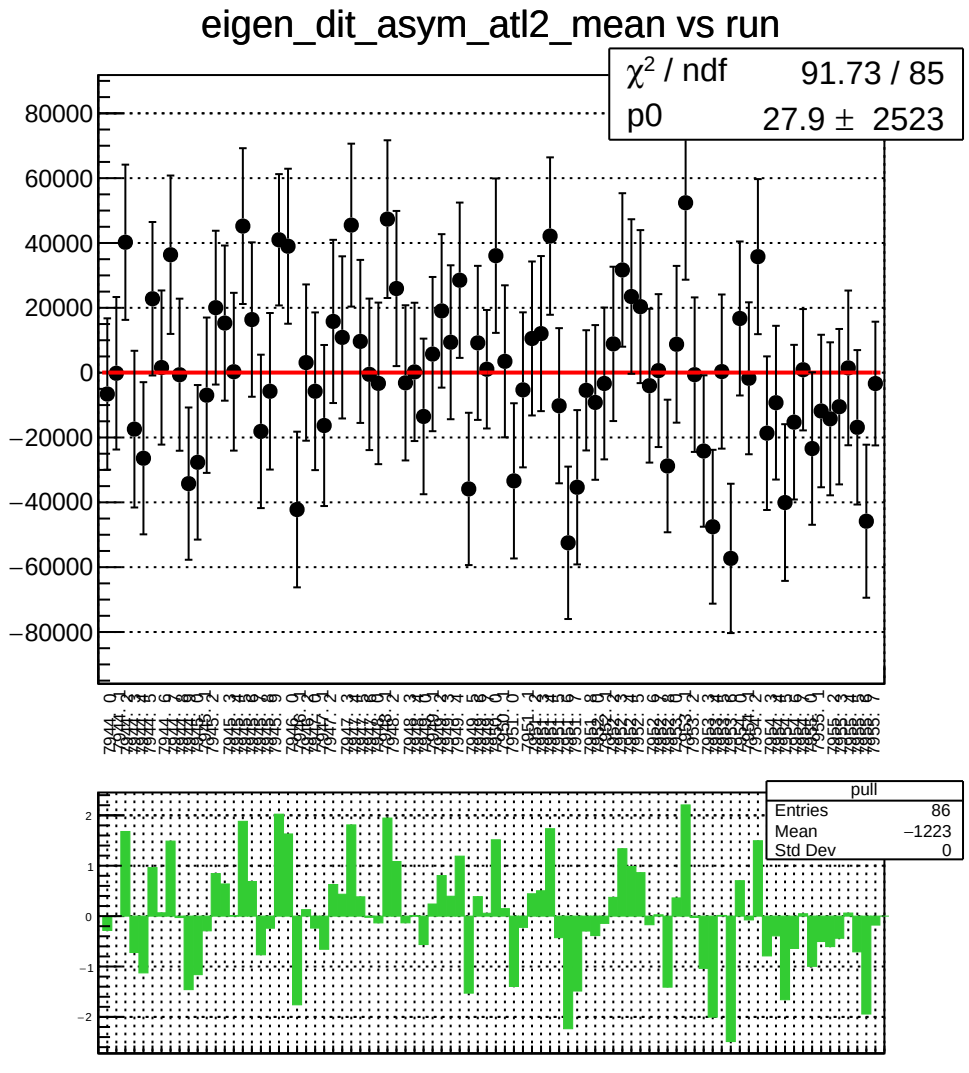

pull1D
Entries 86
Mean 0.004935
Std Dev 1.033

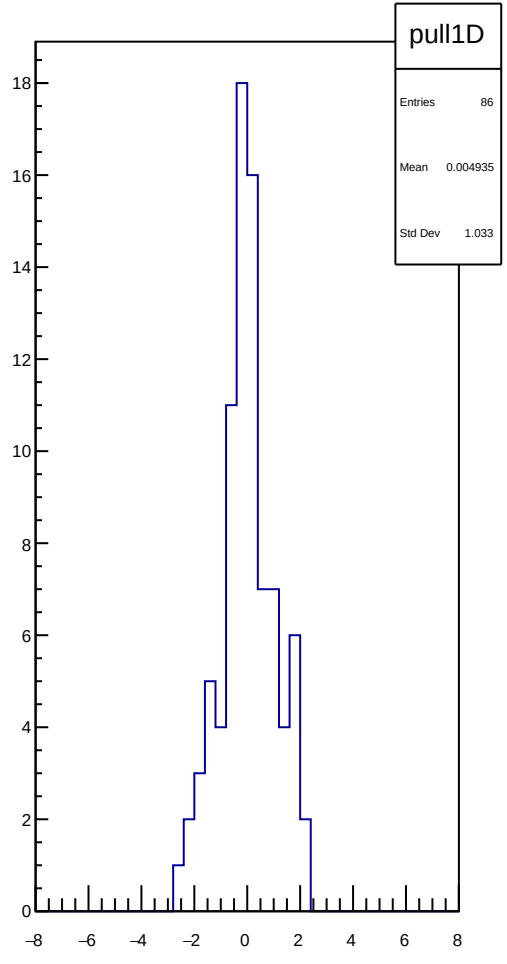

dit_asym_atl2_rms vs run
χ^2 / ndf 448.8 / 85
p0 2270 ± 1.784
2400
2350
2300
2250
2200

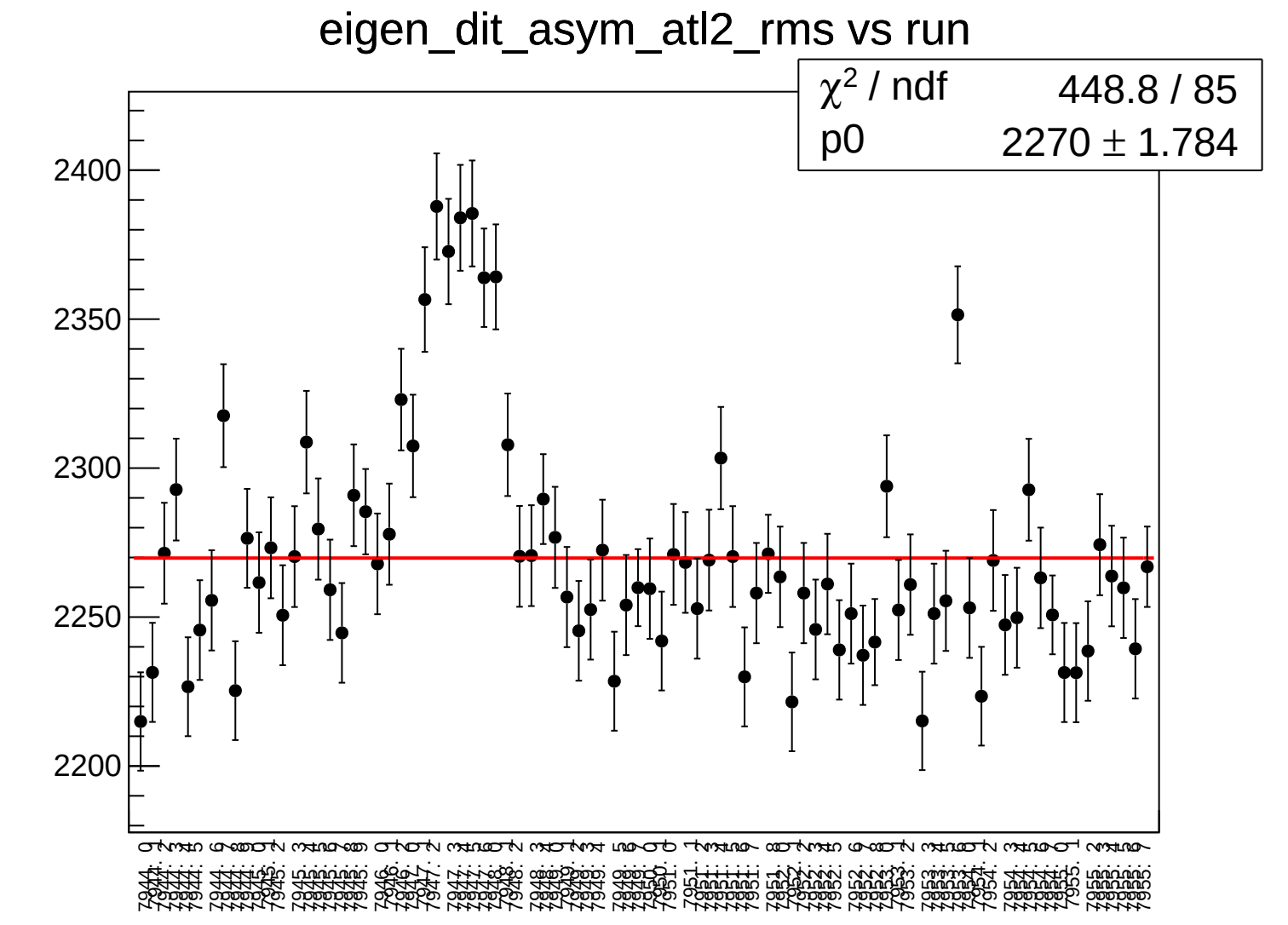

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 93.72 / 85
p0 −5239 ± 1.033e+04
pull
Entries 86
Mean −167.7
Std Dev 0

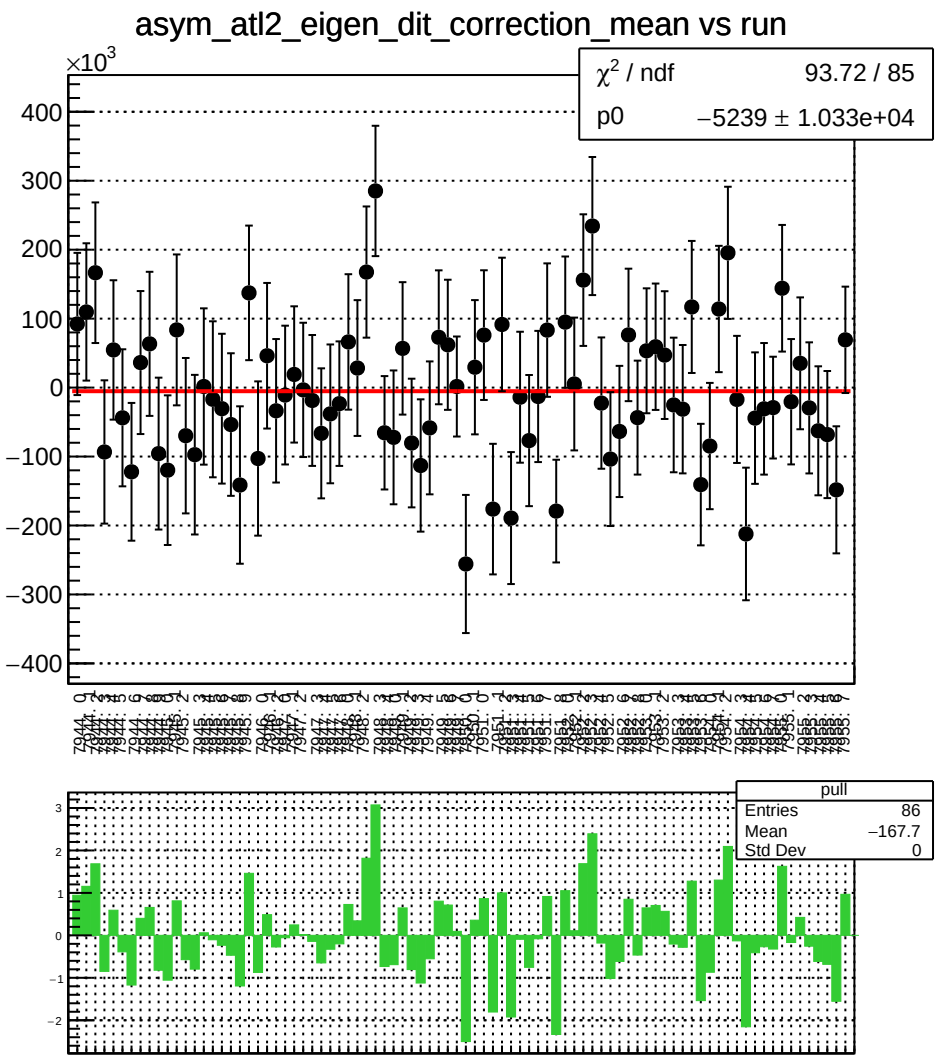

pull1D
Entries 86
Mean 0.003417
Std Dev 1.044

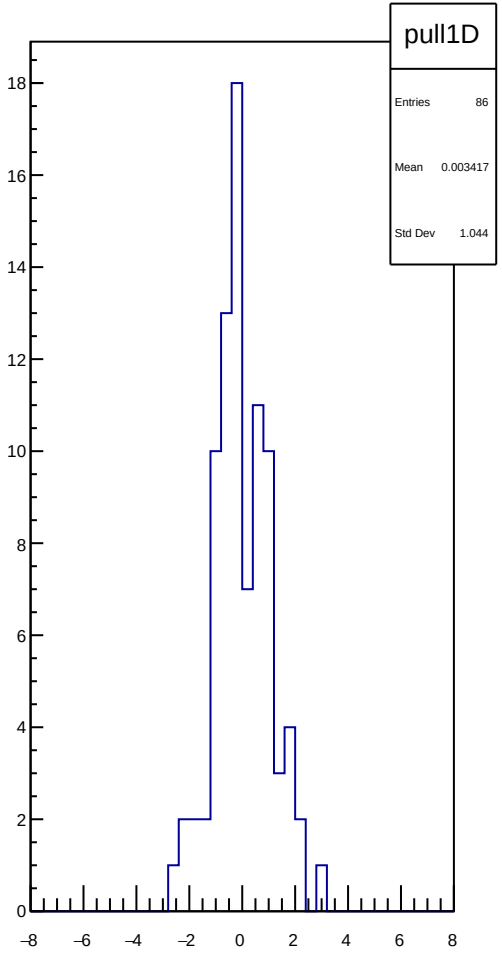

asym_atl2_dit_correction_rms vs run
χ² / ndf 5687 / 85
p0 9276 ± 7.302
11000
10500
10000
9500
9000
8500

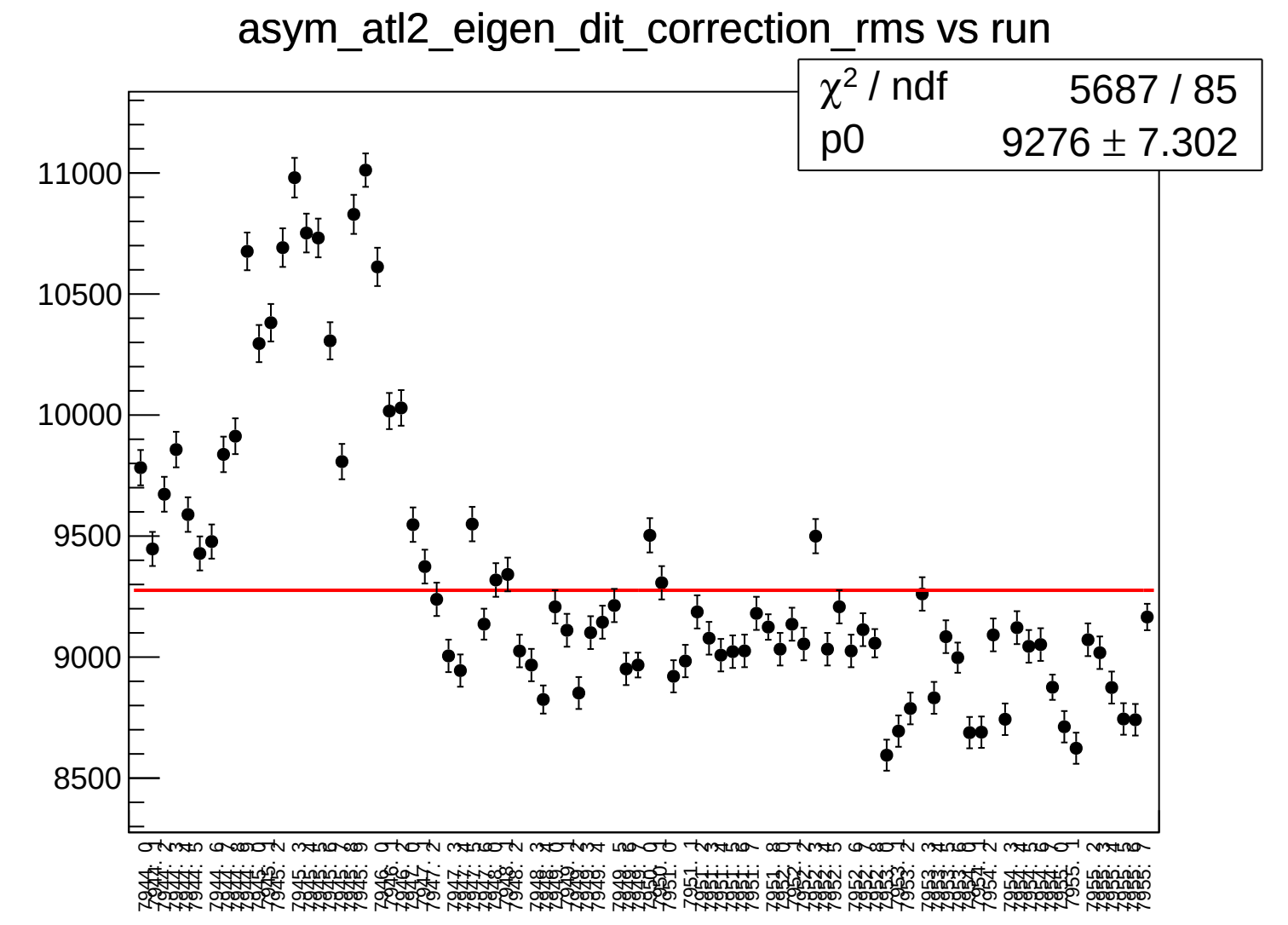

eigen_dit_asym_atl2_mean vs run
χ² / ndf 91.73 / 85
p0 27.9 ± 2523
pull
Entries 86
Mean −1223
Std Dev 0

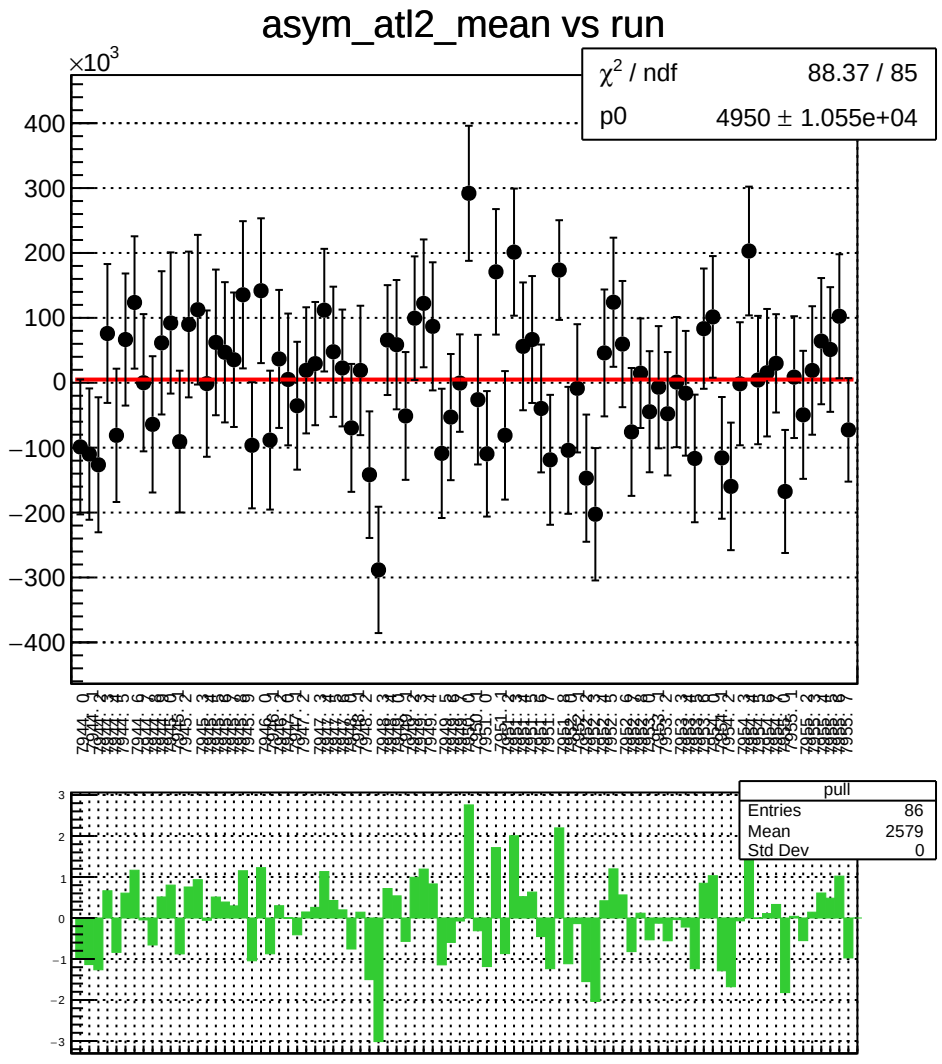

pull1D
Entries 86
Mean 0.004935
Std Dev 1.033

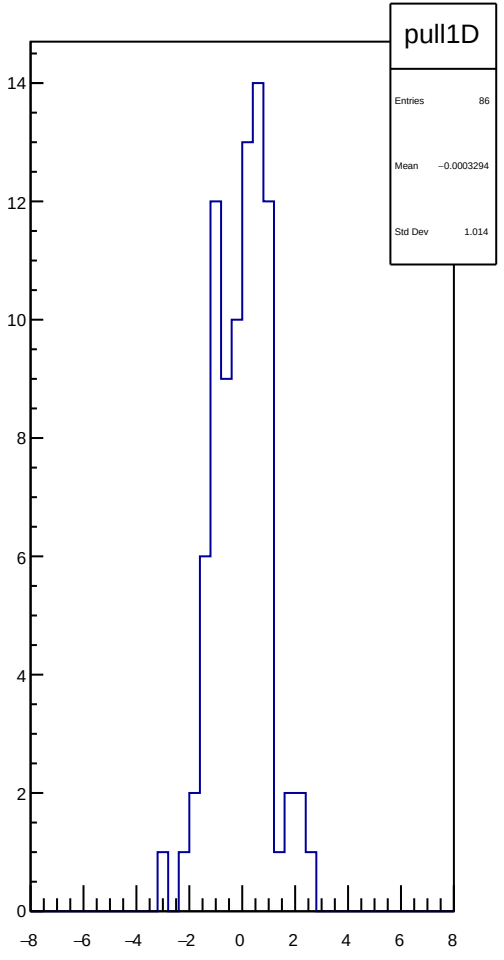

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 448.8 / 85
p0 2270 ± 1.784
2400
2350
2300
2250
2200

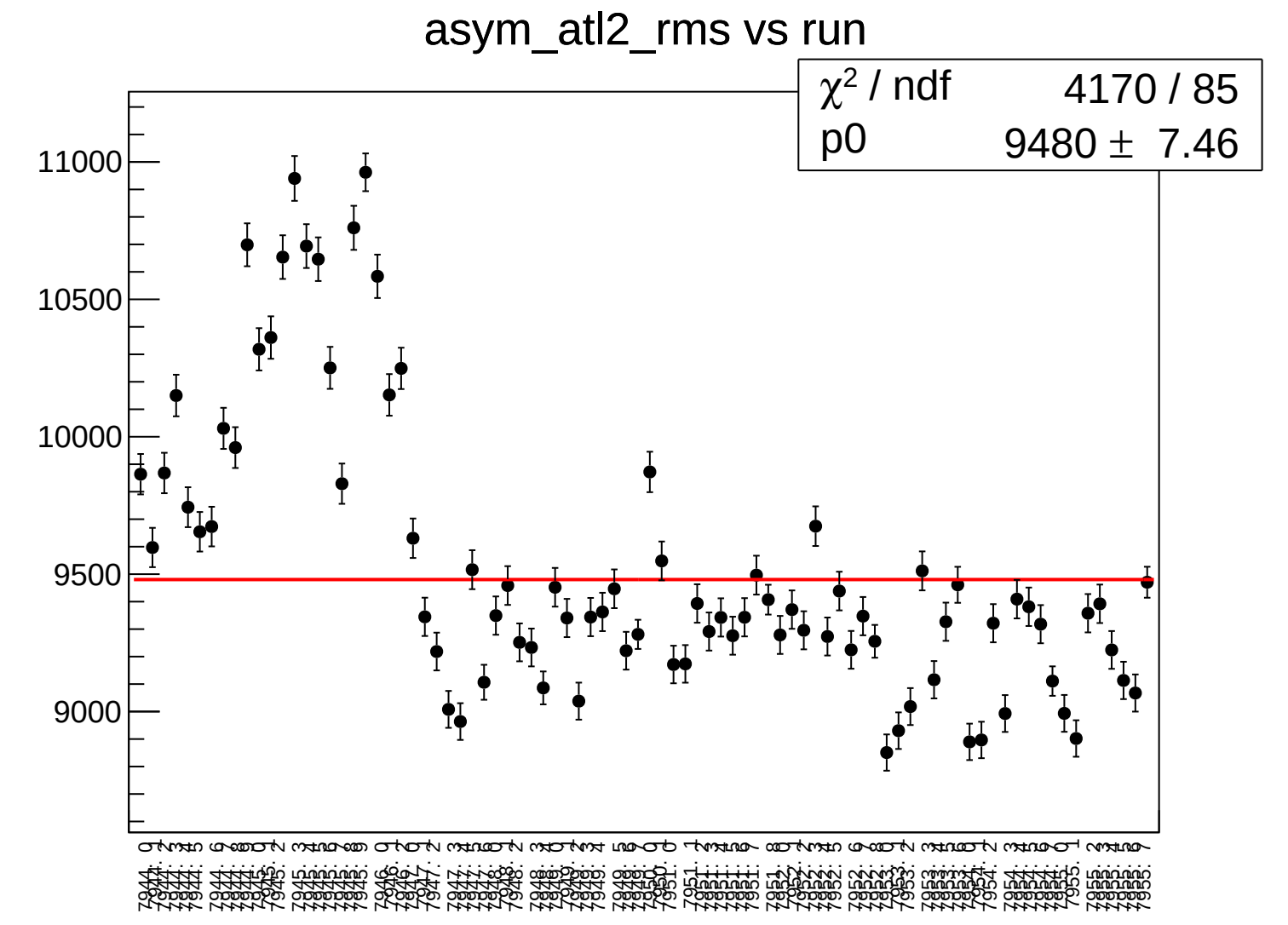

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.72 / 85
p0 −5239 ± 1.033e+04
pull
Entries 86
Mean −167.7
Std Dev 0

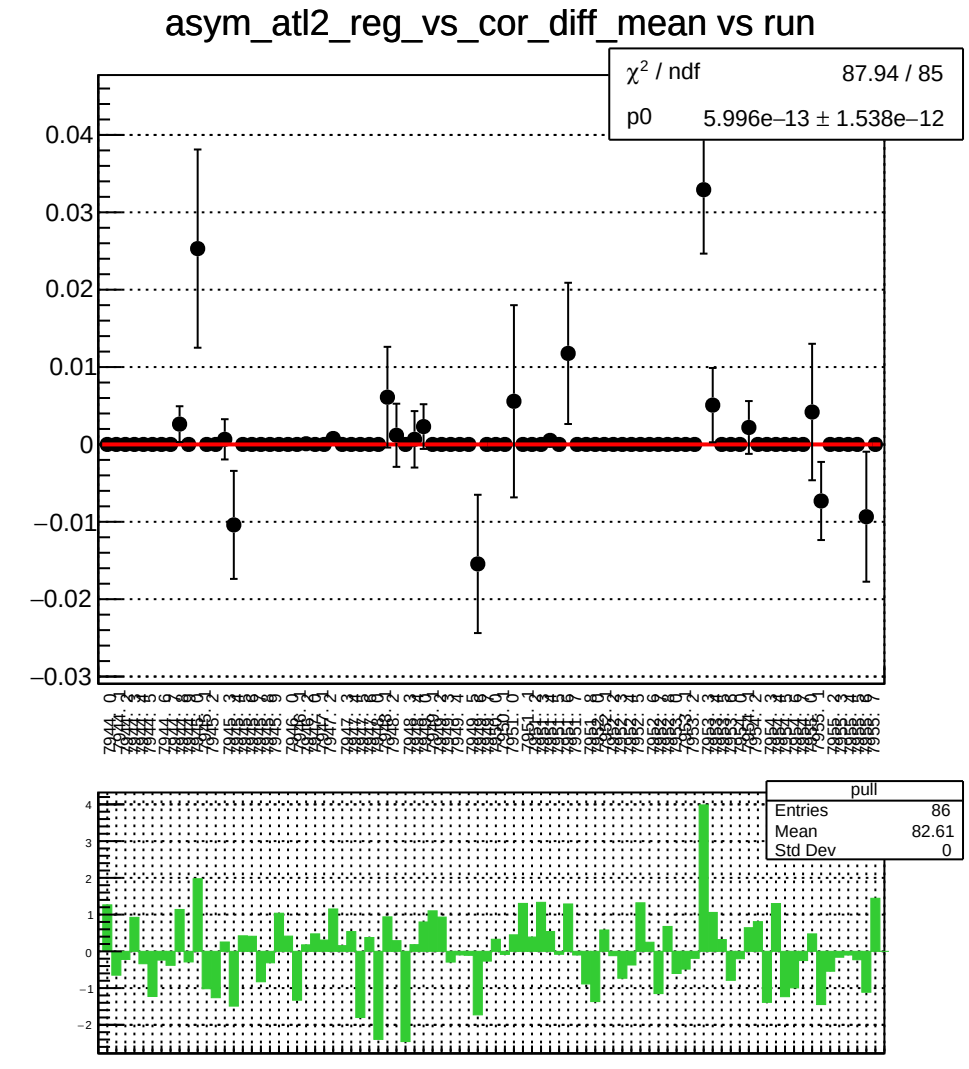

pull1D
Entries 86
Mean 0.003417
Std Dev 1.044

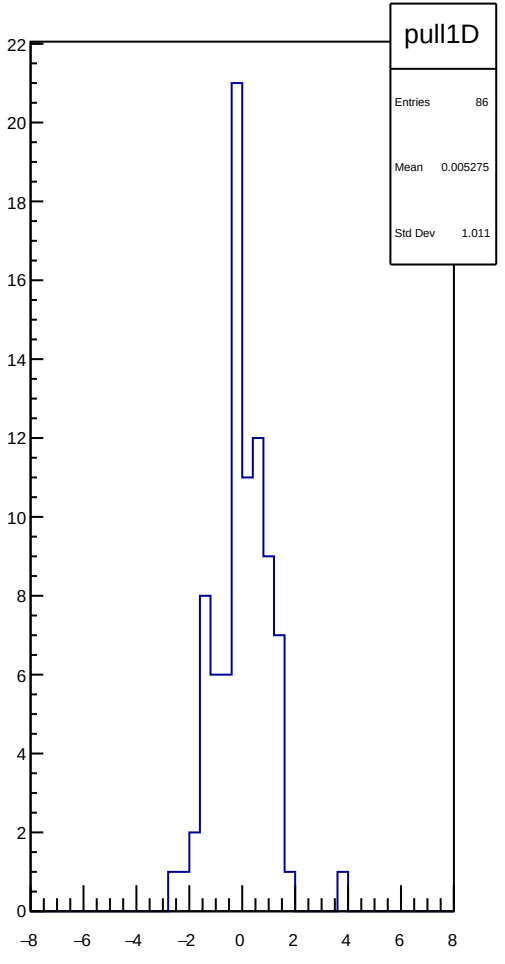

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 5687 / 85
p0 9276 ± 7.302
11000
10500
10000
9500
9000
8500

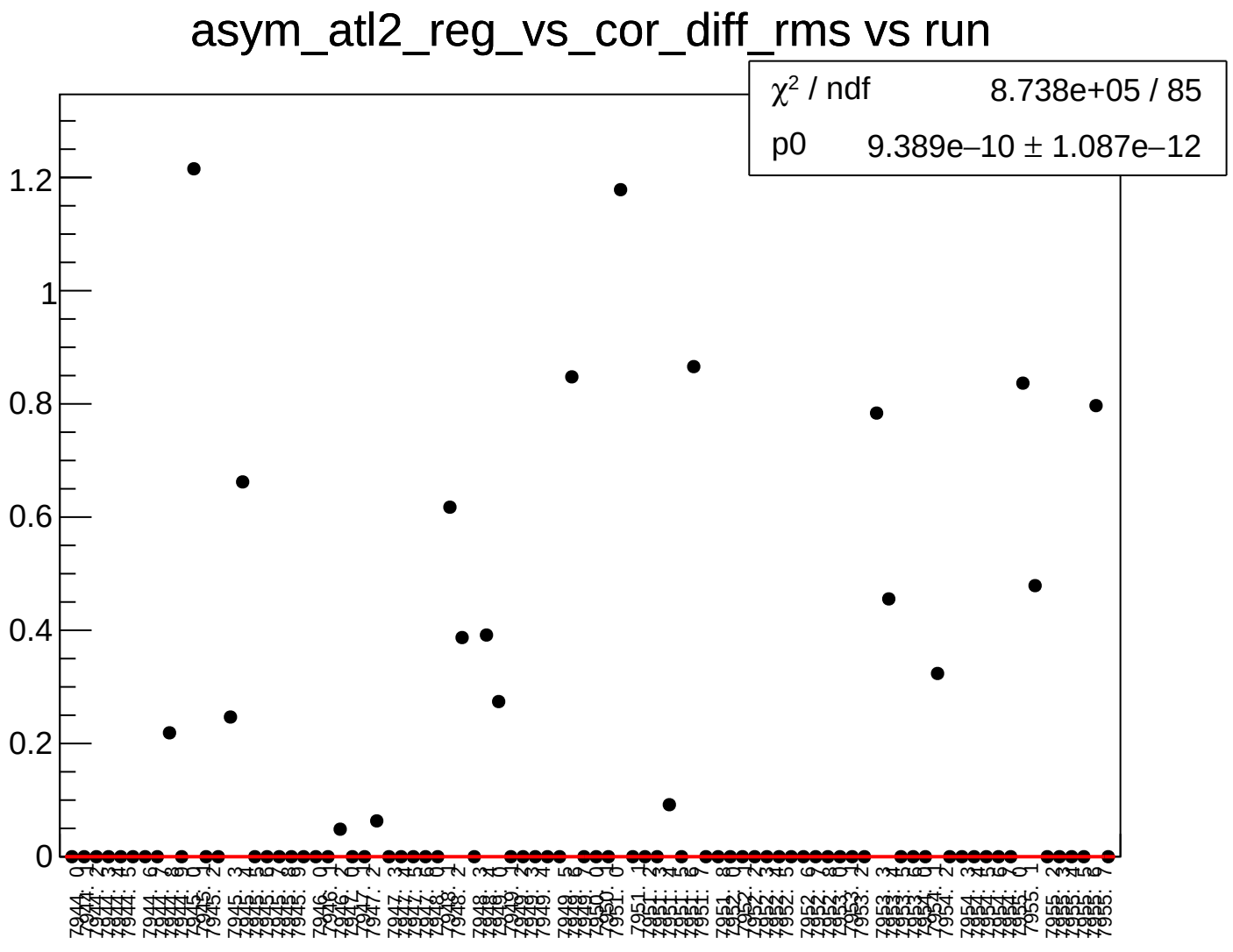

asym_atl2_mean vs run
×10^3
χ² / ndf 88.37 / 85
p0 4950 ± 1.055e+04
pull
Entries 86
Mean 2579
Std Dev 0

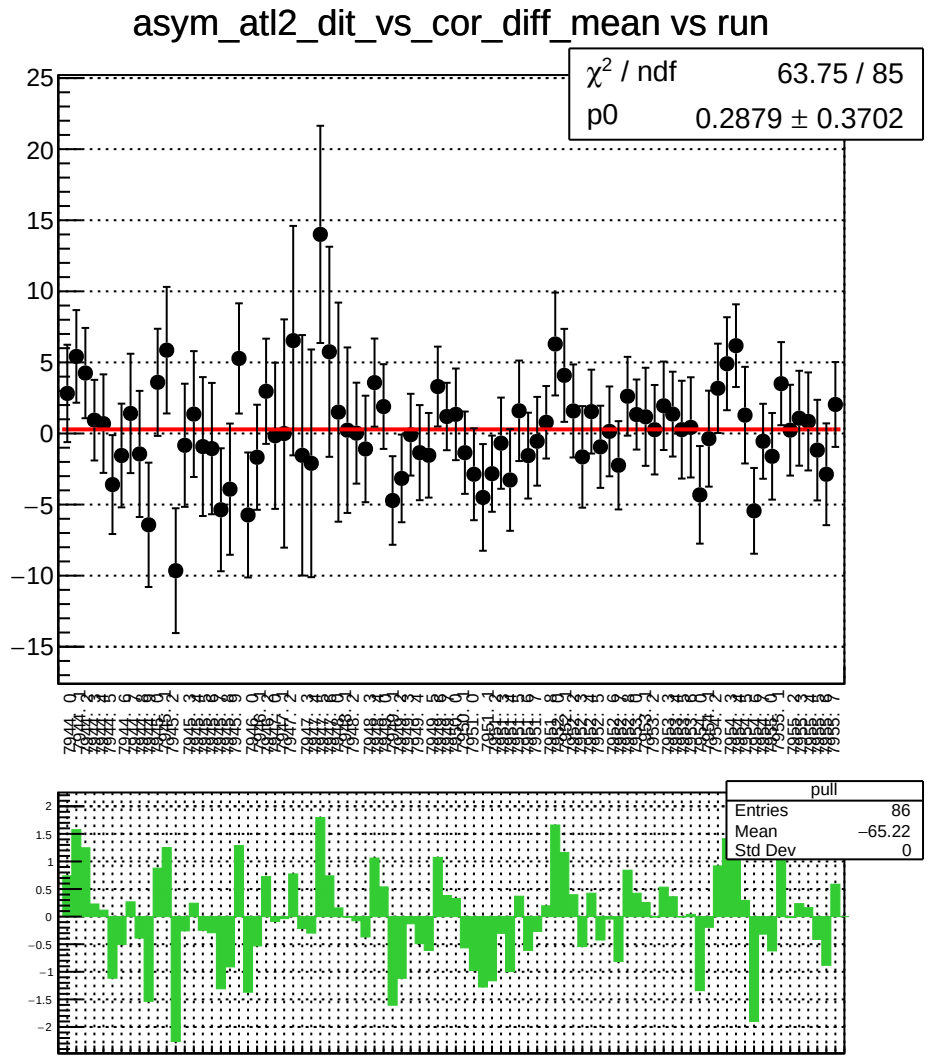

pull1D
Entries 86
Mean −0.0003294
Std Dev 1.014

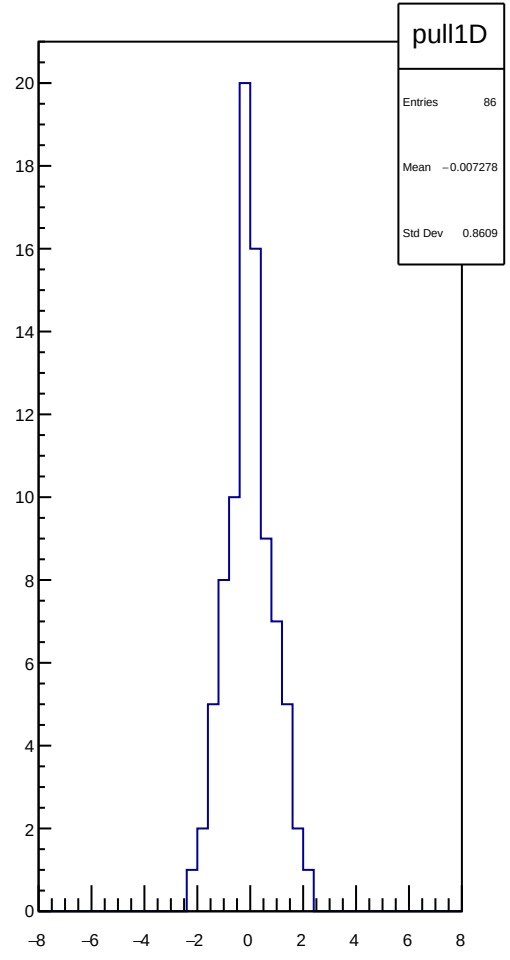

asym_atl2_rms vs run
χ² / ndf 4170 / 85
p0 9480 ± 7.46
11000
10500
10000
9500
9000

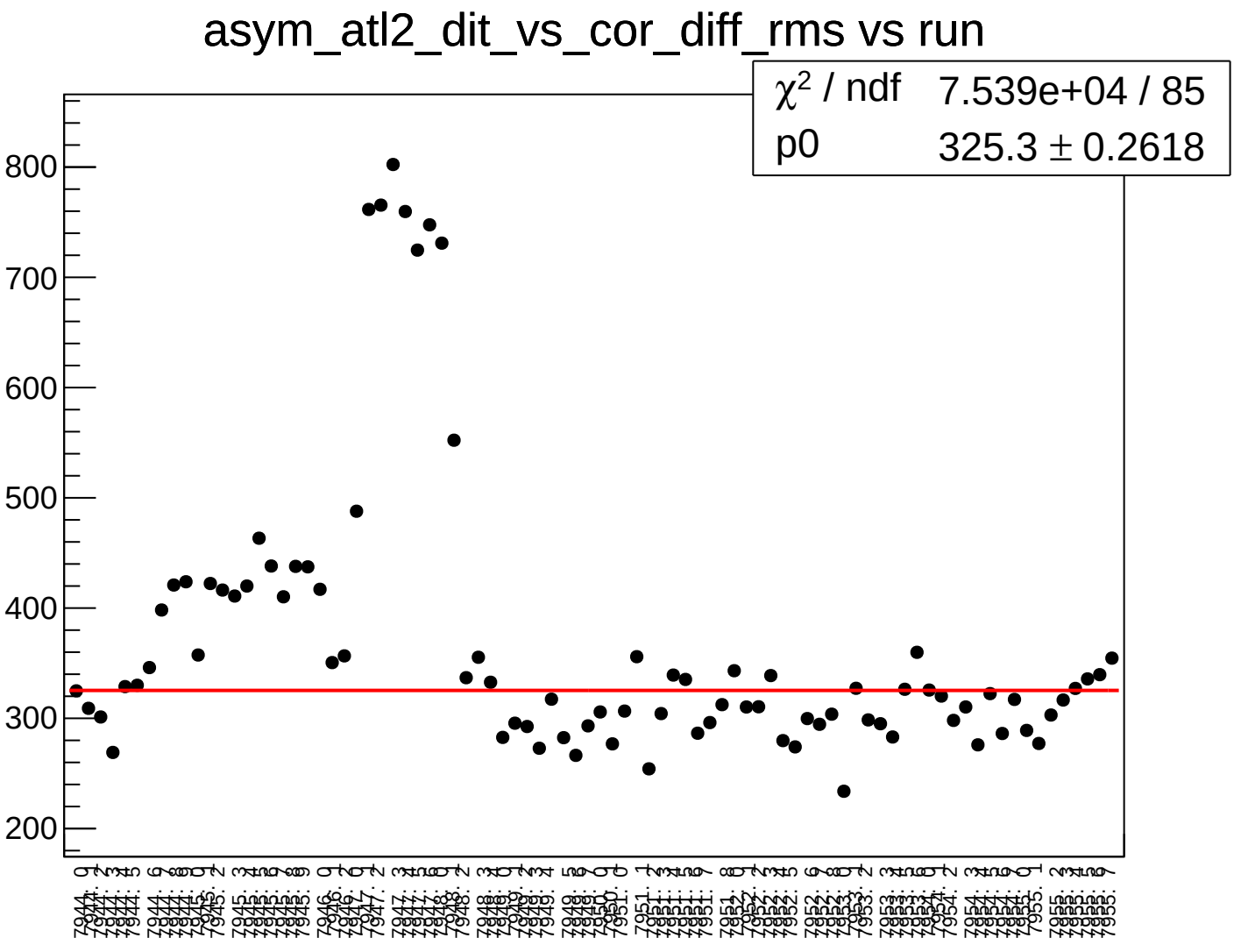

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 87.94 / 85
p0 5.996e−13 ± 1.538e−12
pull
Entries 86
Mean 82.61
Std Dev 0

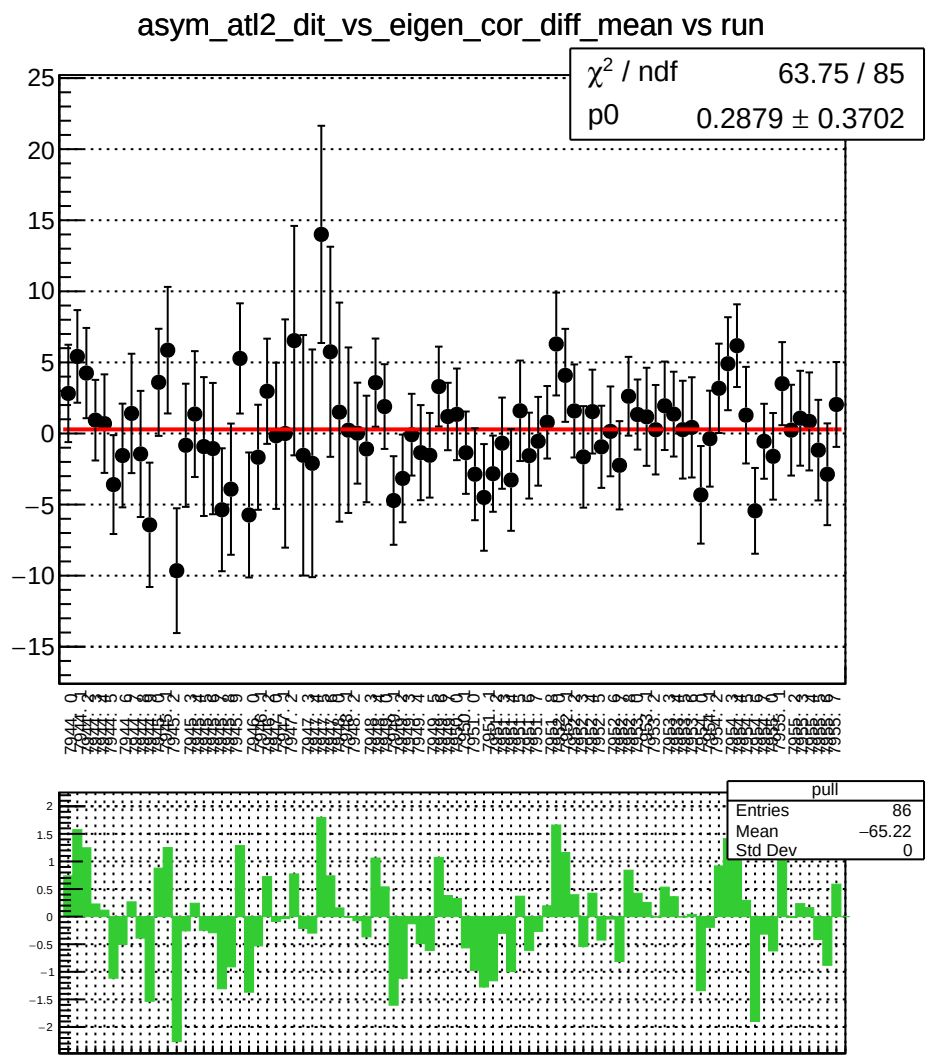

pull1D
Entries 86
Mean 0.005275
Std Dev 1.011

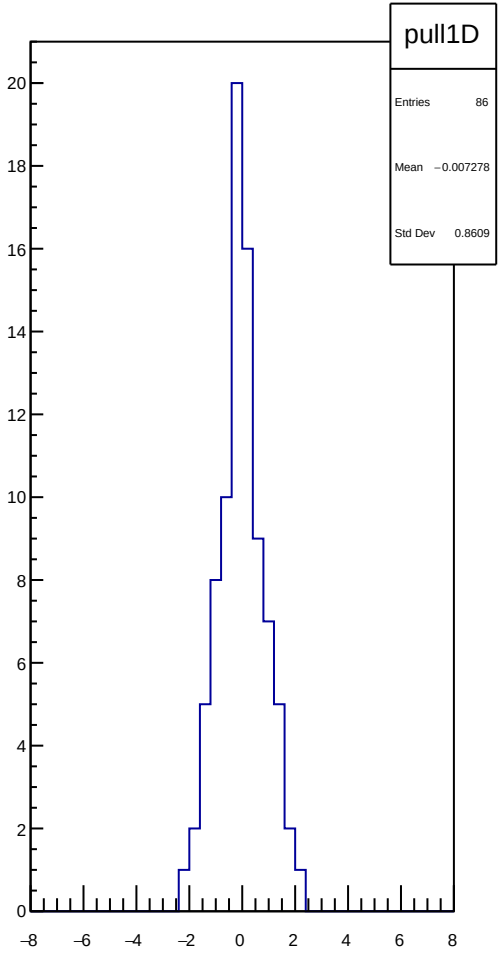

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.738e+05 / 85
p0 9.389e−10 ± 1.087e−12
1.2
1
0.8
0.6
0.4
0.2
0

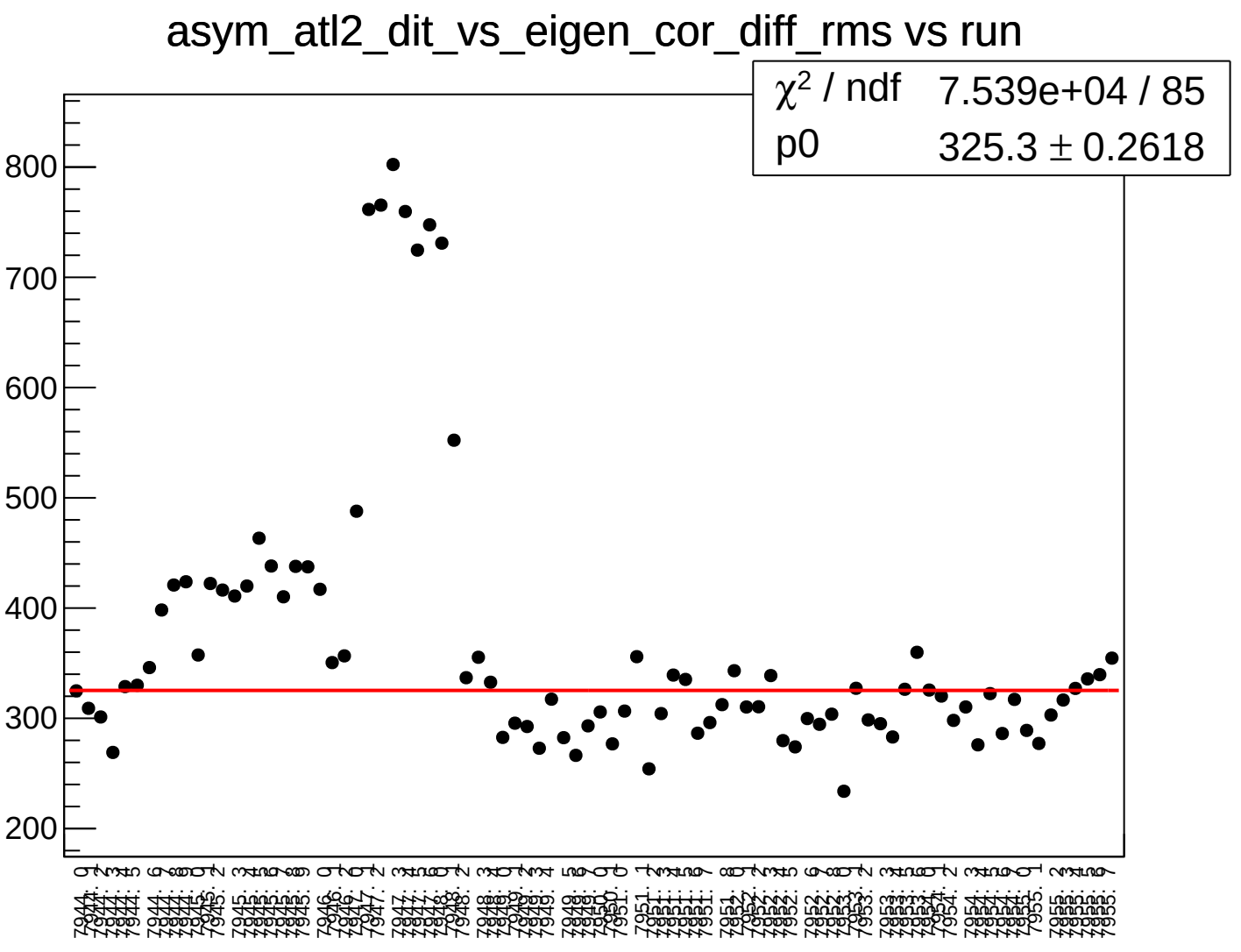

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 63.75 / 85
p0 0.2879 ± 0.3702
pull
Entries 86
Mean −65.22
Std Dev 0

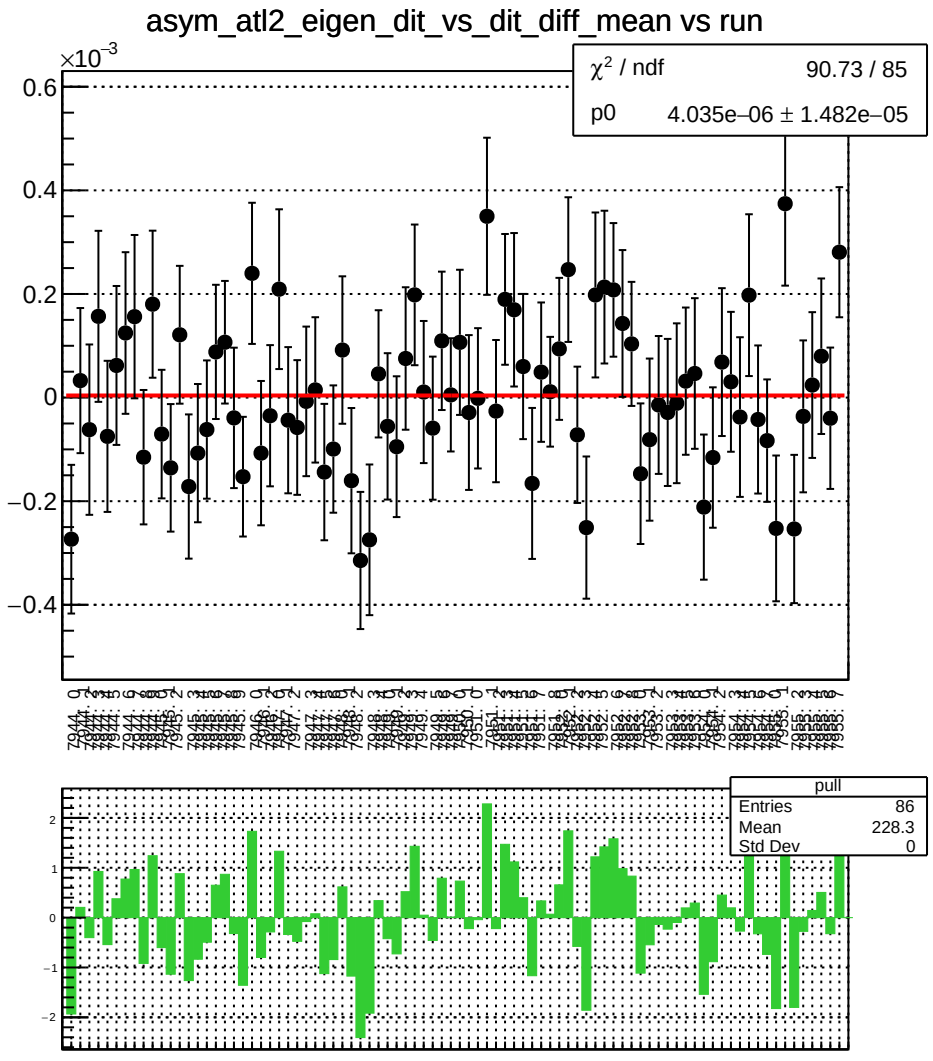

pull1D
Entries 86
Mean −0.007278
Std Dev 0.8609

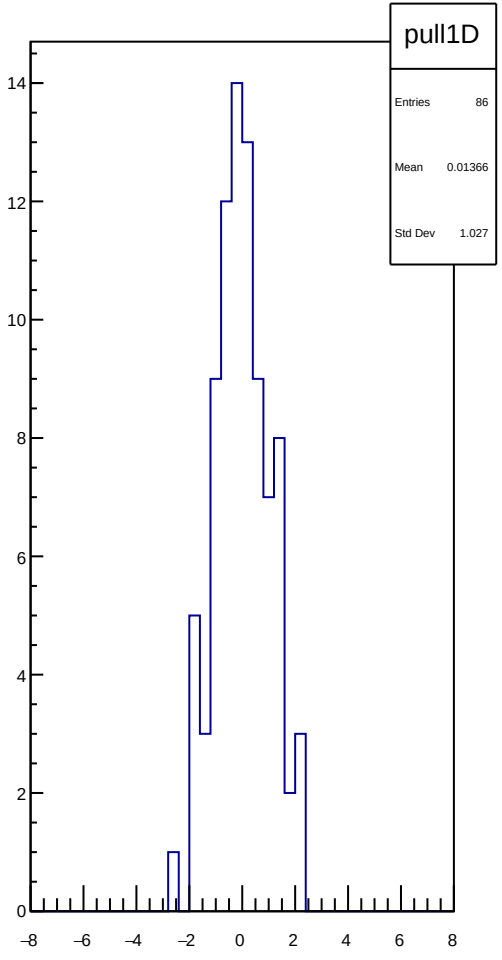

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 7.539e+04 / 85
p0 325.3 ± 0.2618
800
700
600
500
400
300
200

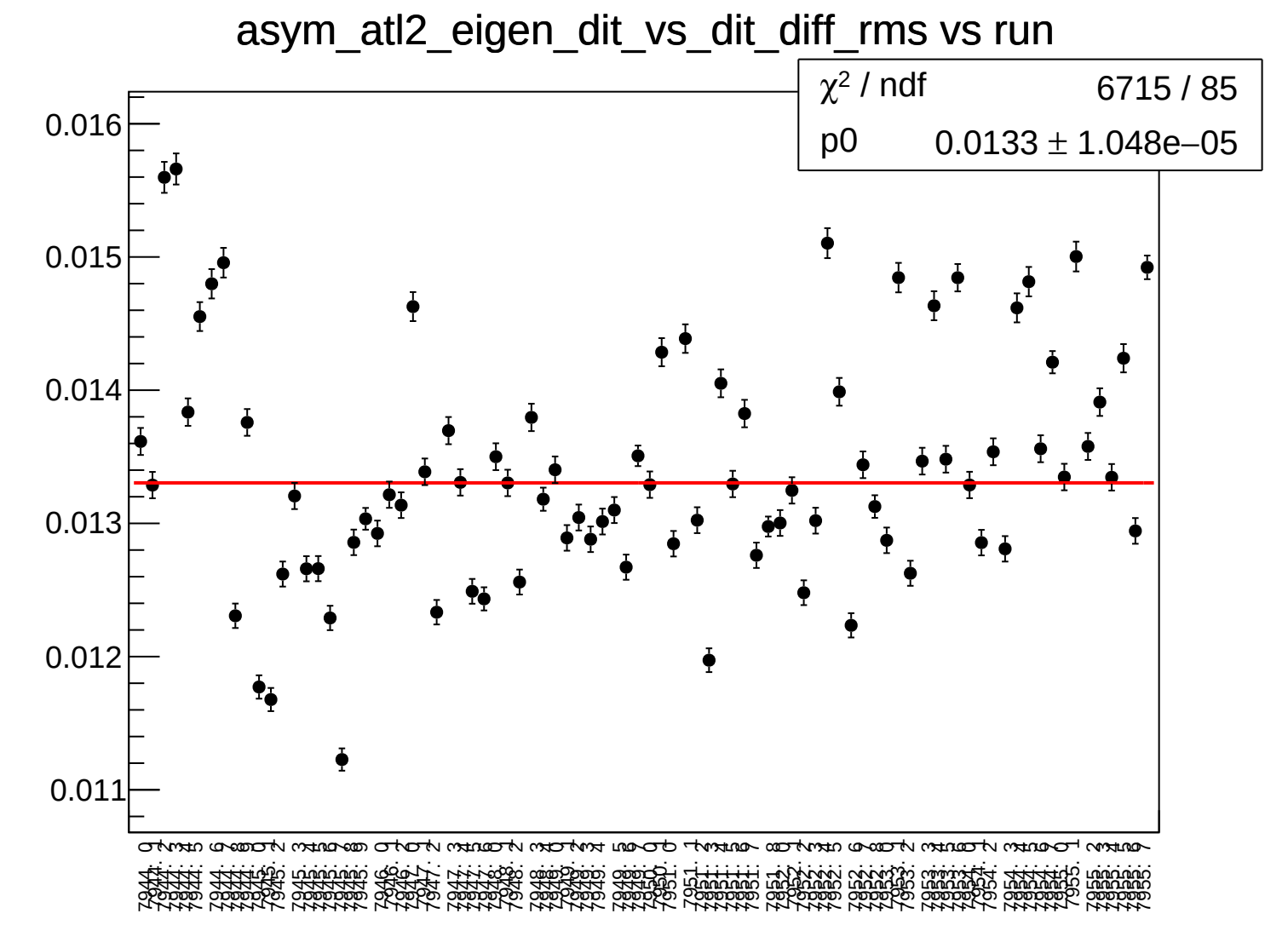

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.75 / 85
p0 0.2879 ± 0.3702
pull
Entries 86
Mean −65.22
Std Dev 0

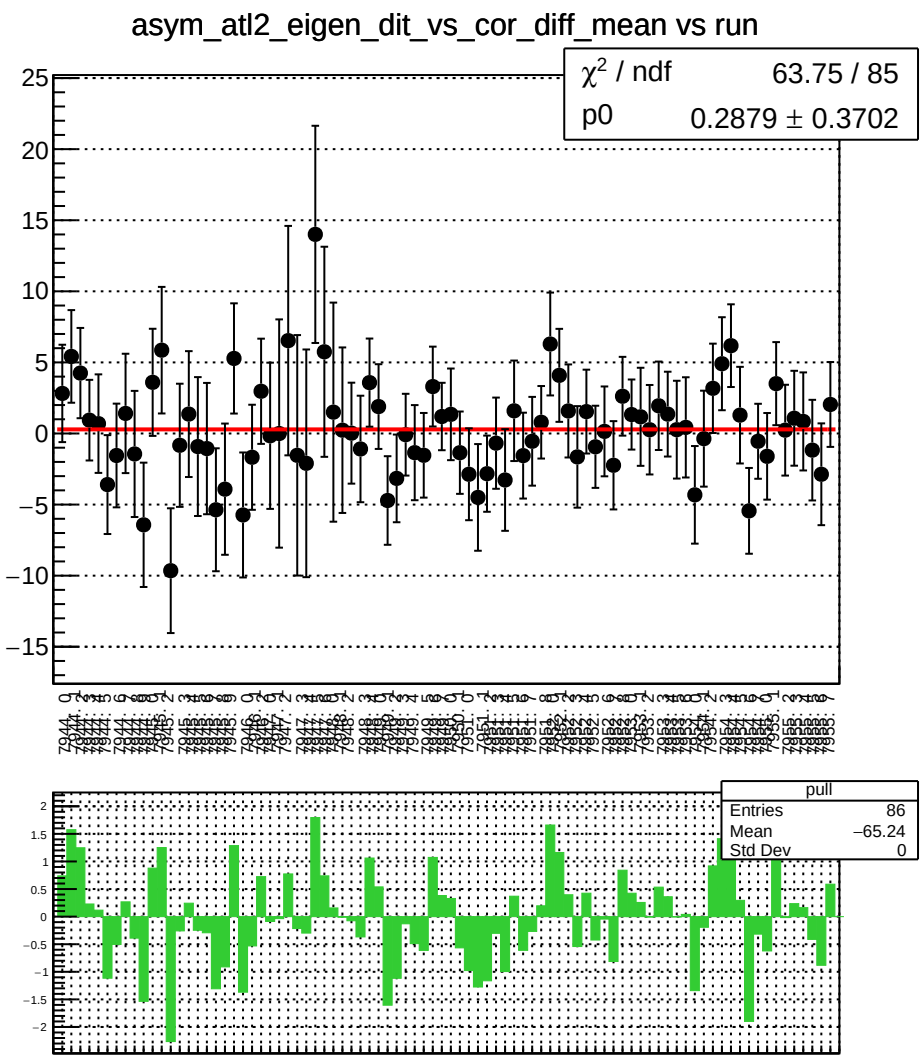

pull1D
Entries 86
Mean −0.007278
Std Dev 0.8609

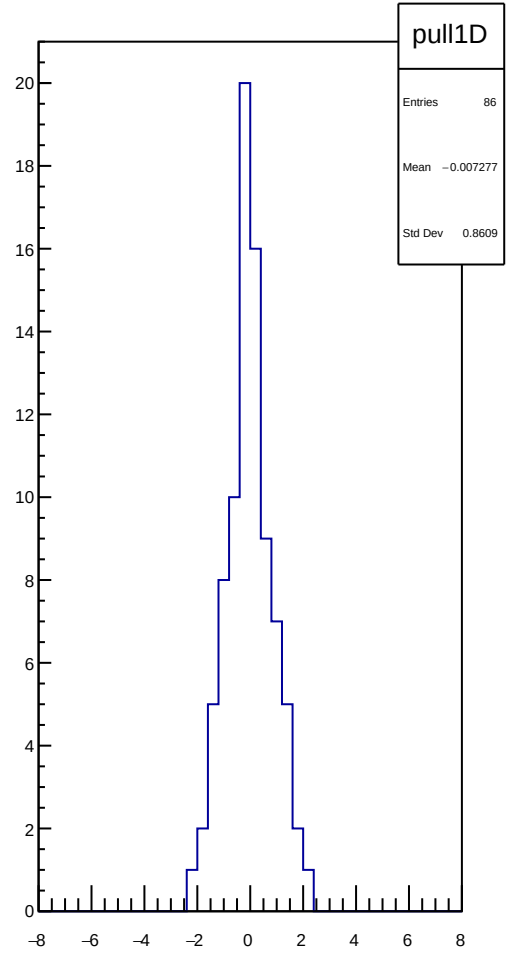

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.539e+04 / 85
p0 325.3 ± 0.2618
800
700
600
500
400
300
200

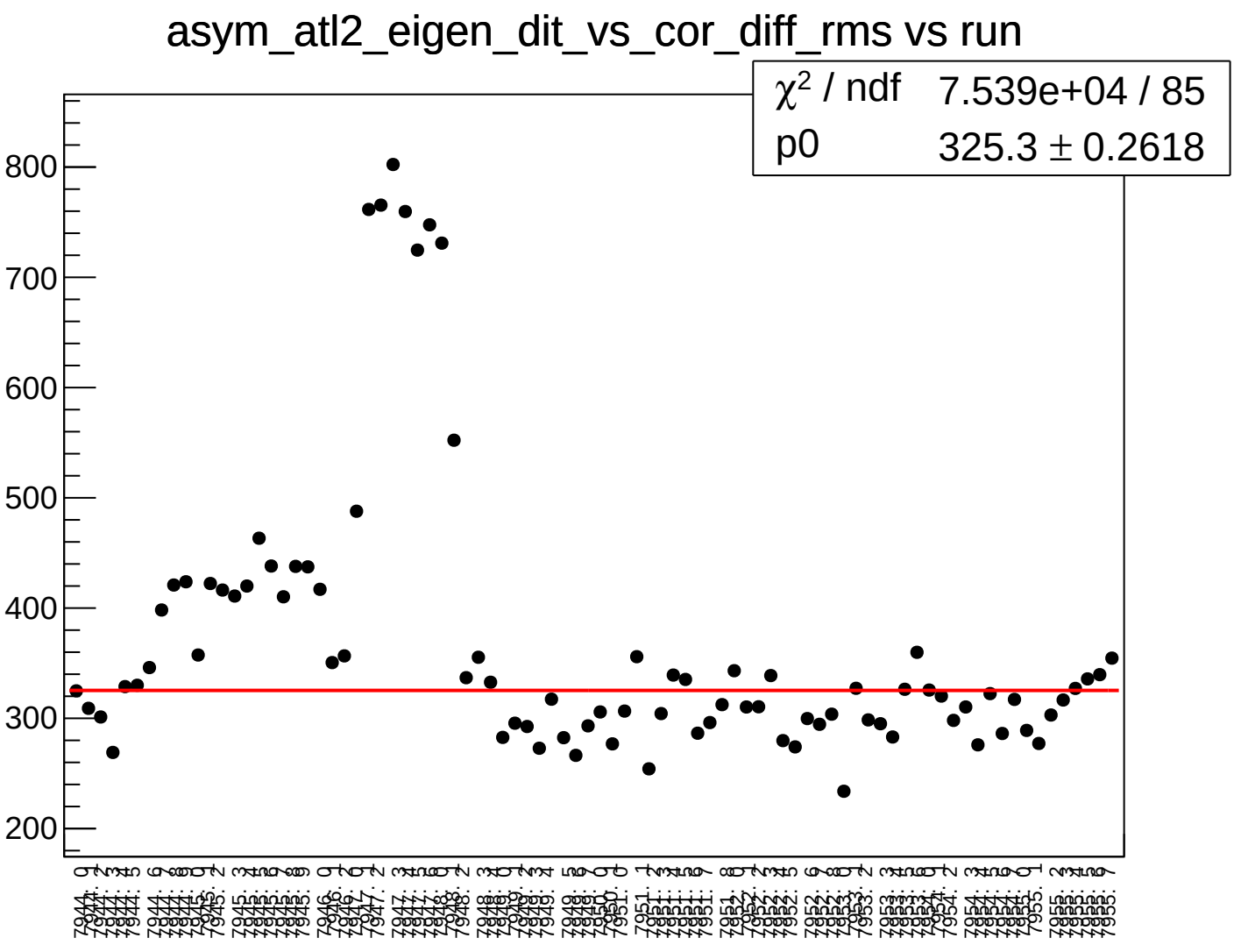

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.73 / 85
p0 4.035e−06 ± 1.482e−05
pull
Entries 86
Mean 228.3
Std Dev 0

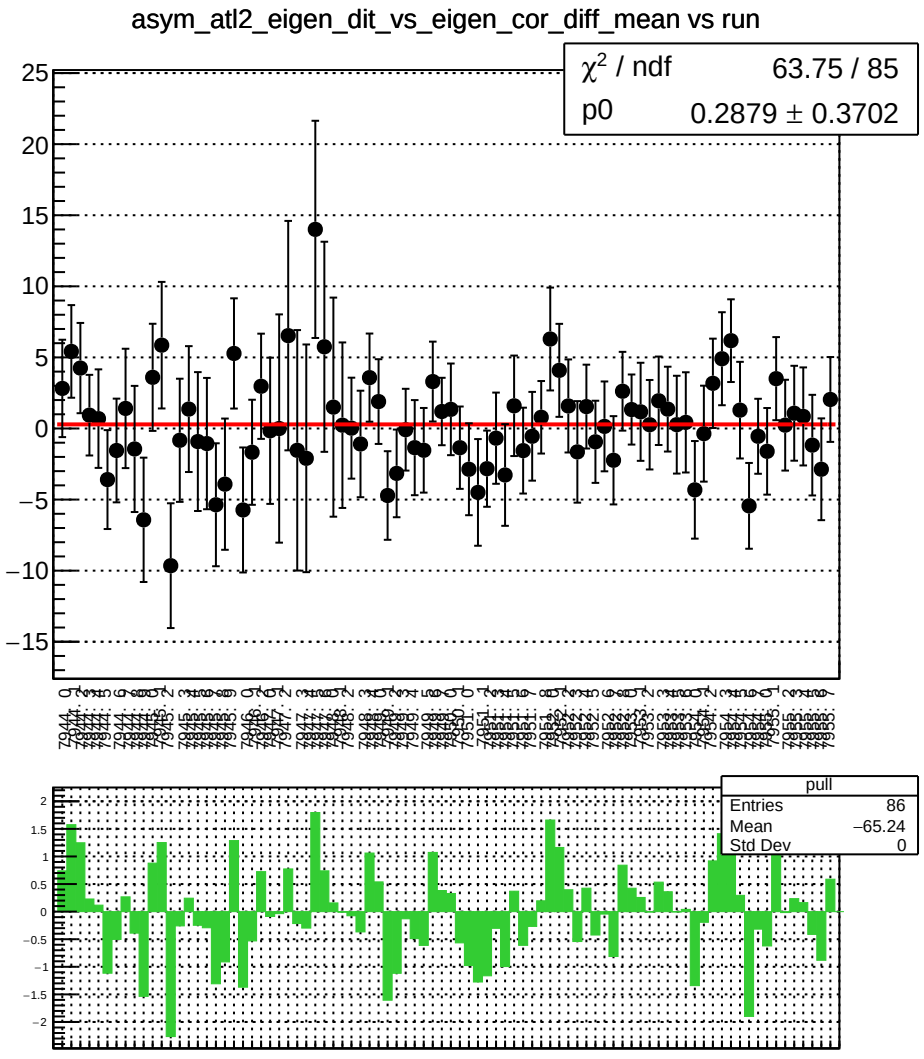

pull1D
Entries 86
Mean 0.01366
Std Dev 1.027

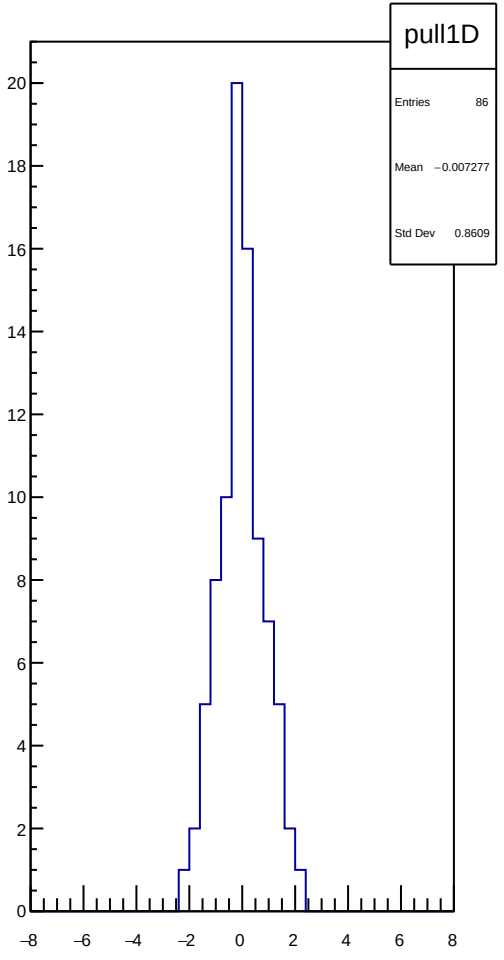

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6715 / 85
p0 0.0133 ± 1.048e−05
0.016
0.015
0.014
0.013
0.012
0.011

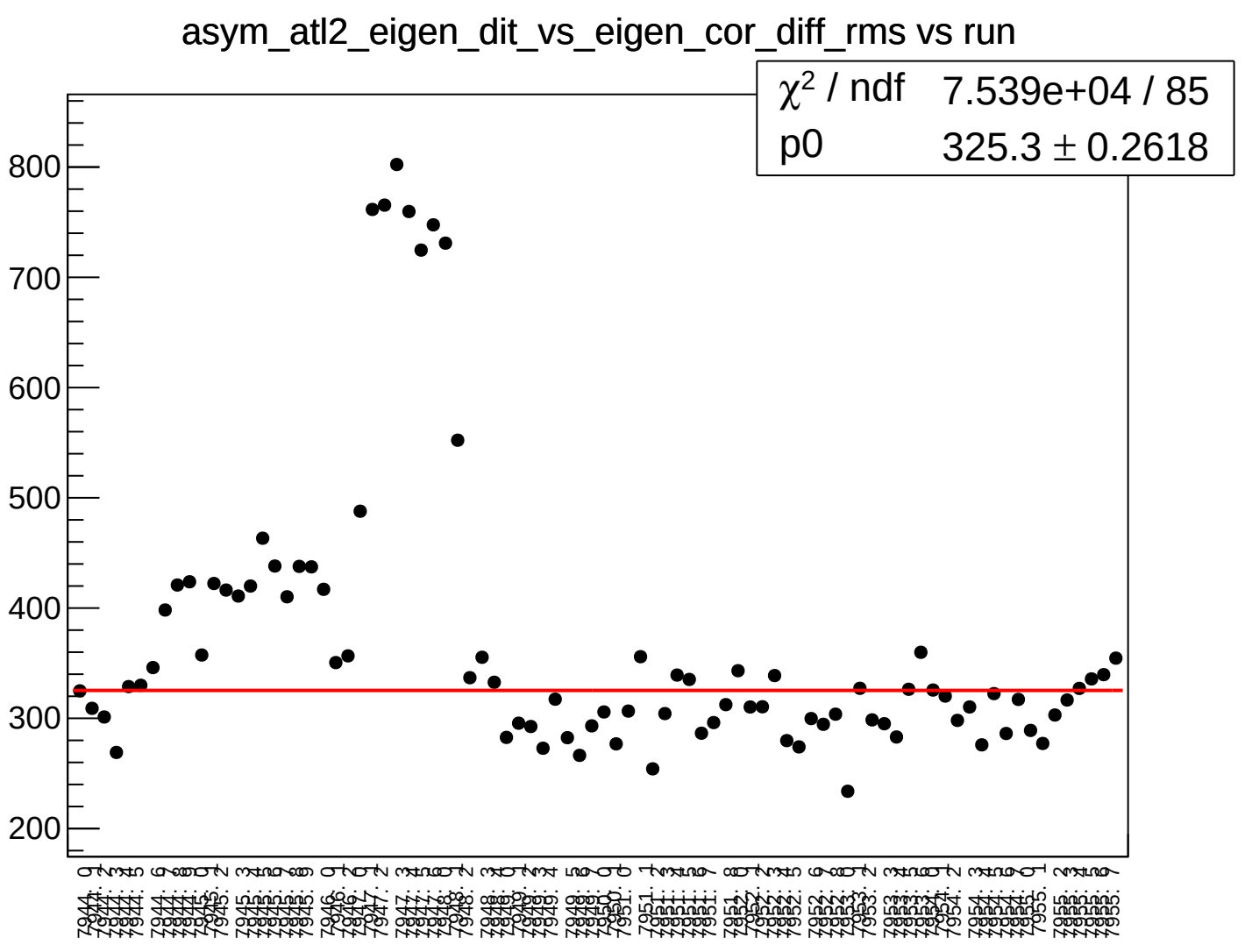

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.75 / 85
p0 0.2879 ± 0.3702
pull
Entries 86
Mean −65.24
Std Dev 0

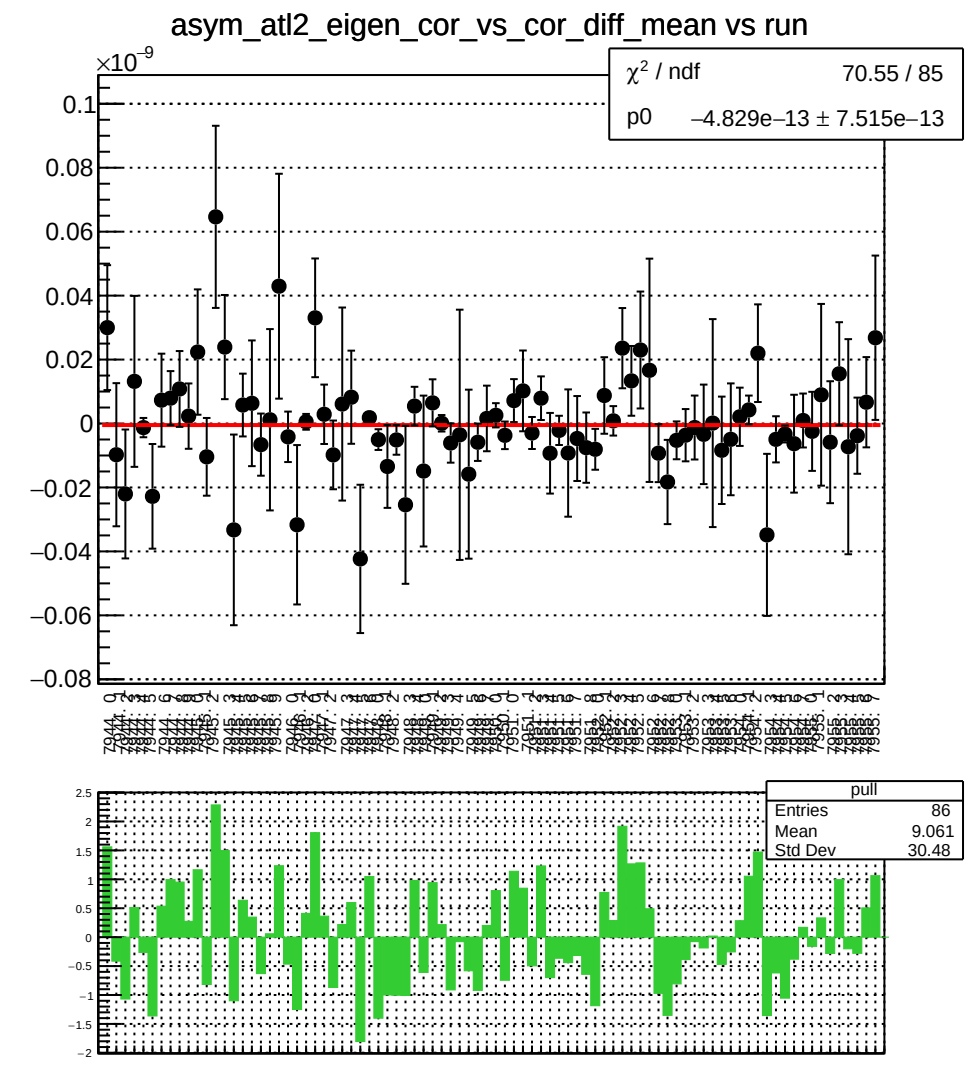

pull1D
Entries 86
Mean −0.007277
Std Dev 0.8609

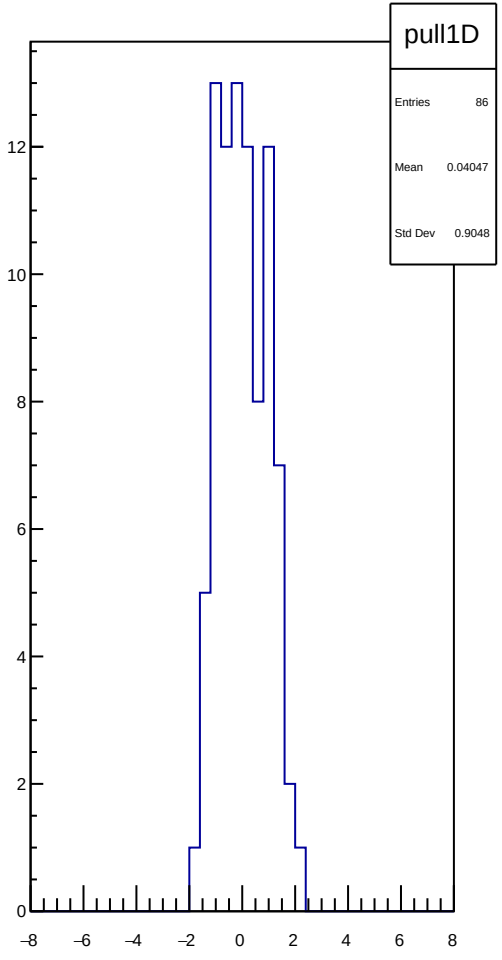

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.539e+04 / 85
p0 325.3 ± 0.2618
800
700
600
500
400
300
200

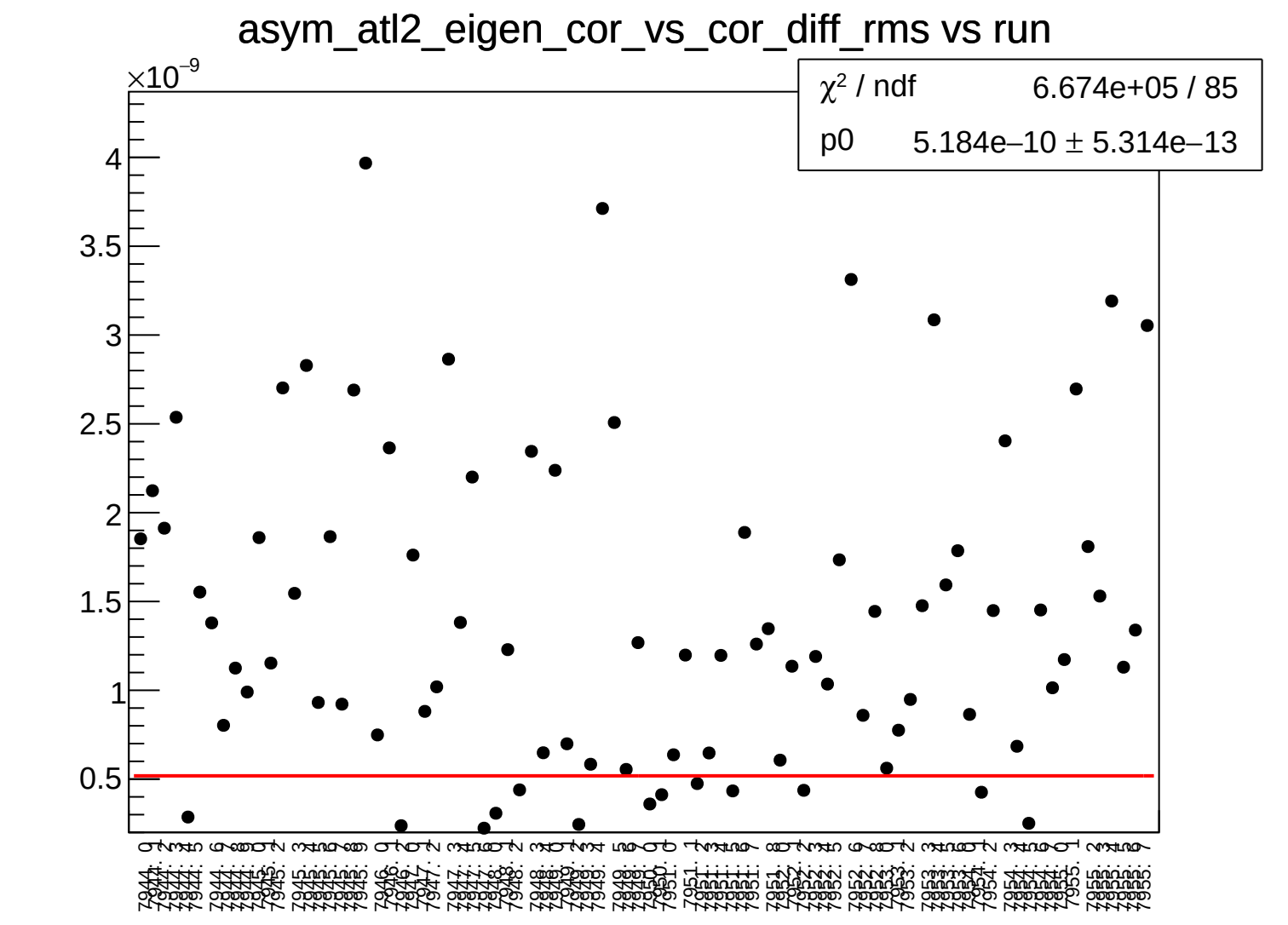

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.75 / 85
p0 0.2879 ± 0.3702
pull
Entries 86
Mean −65.24
Std Dev 0

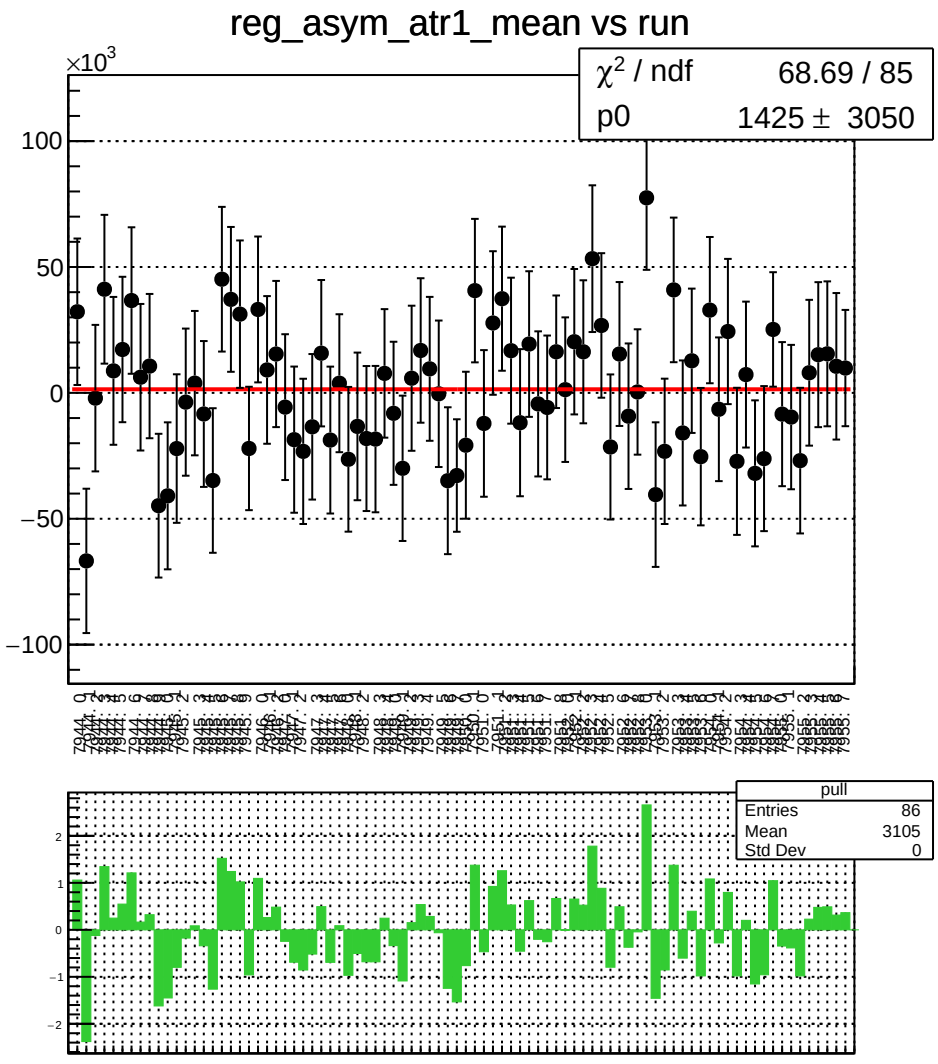

pull1D
Entries 86
Mean −0.007277
Std Dev 0.8609

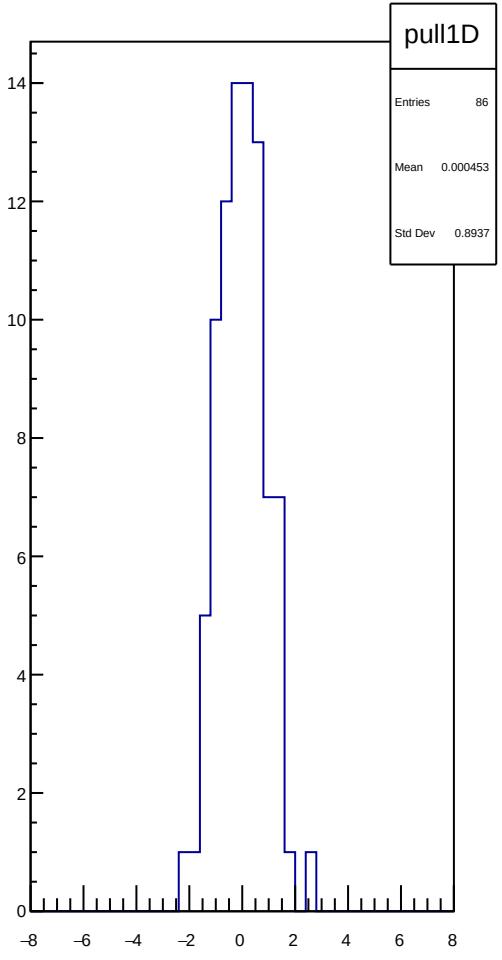

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.539e+04 / 85
p0 325.3 ± 0.2618
800
700
600
500
400
300
200

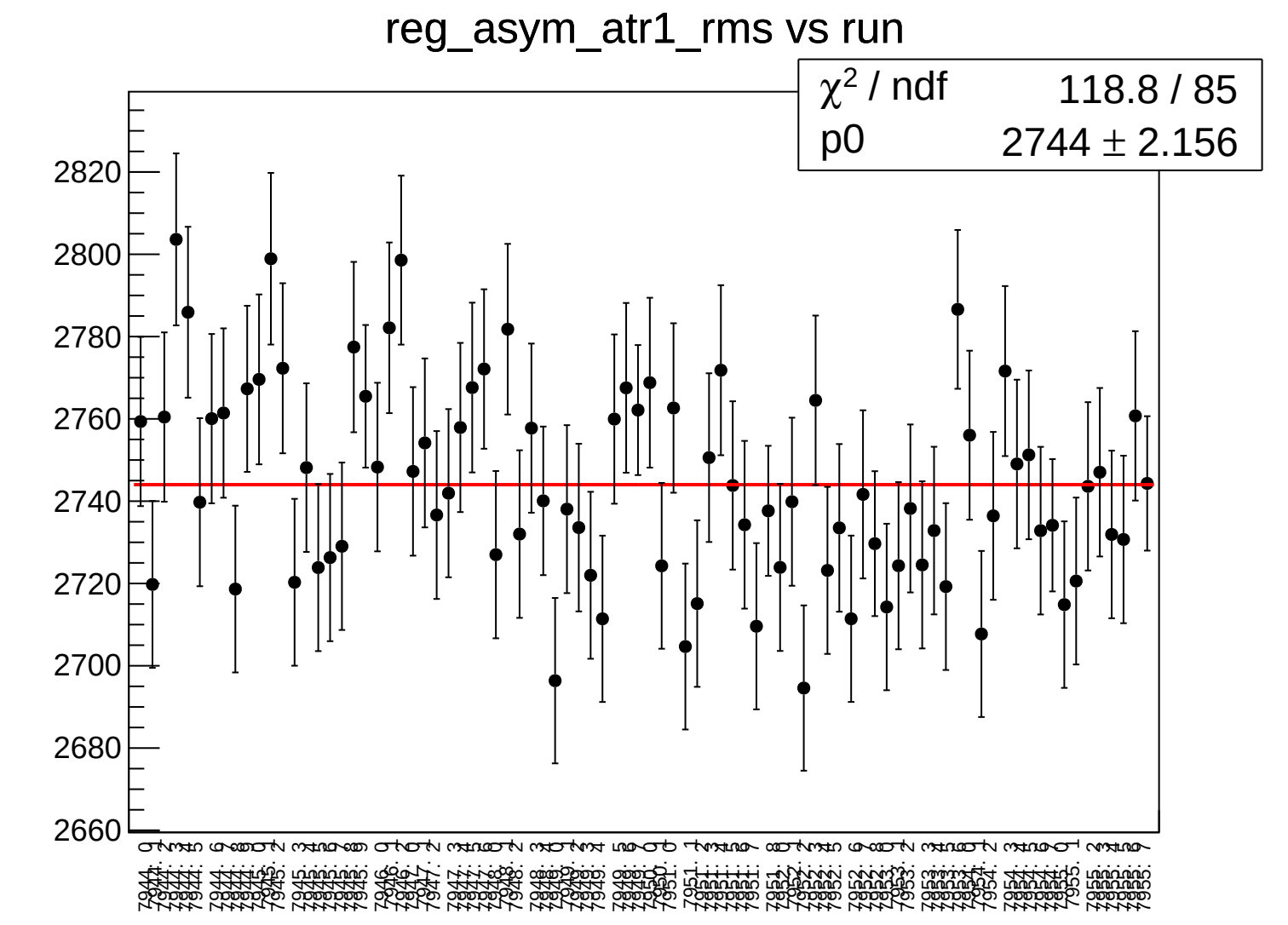

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 70.55 / 85
p0 −4.829e−13 ± 7.515e−13
pull
Entries 86
Mean 9.061
Std Dev 30.48

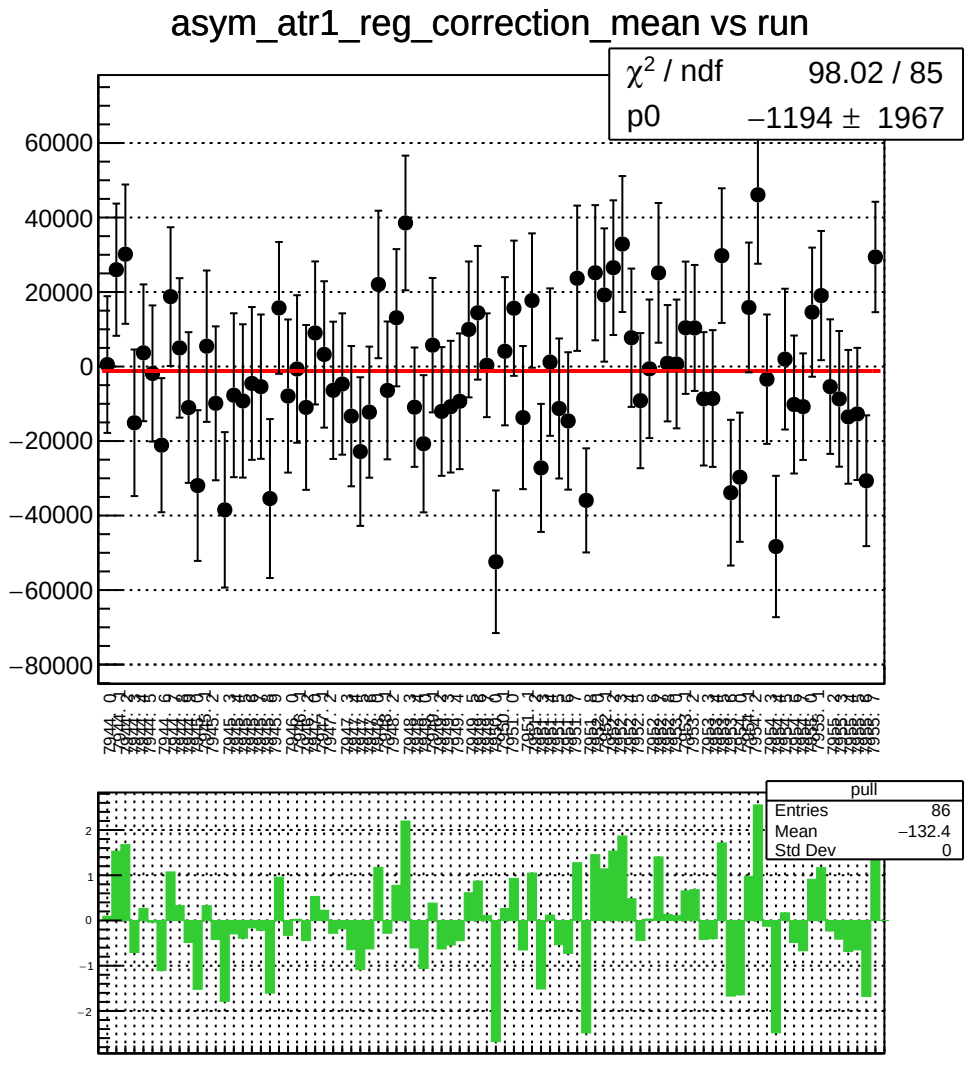

pull1D
Entries 86
Mean 0.04047
Std Dev 0.9048

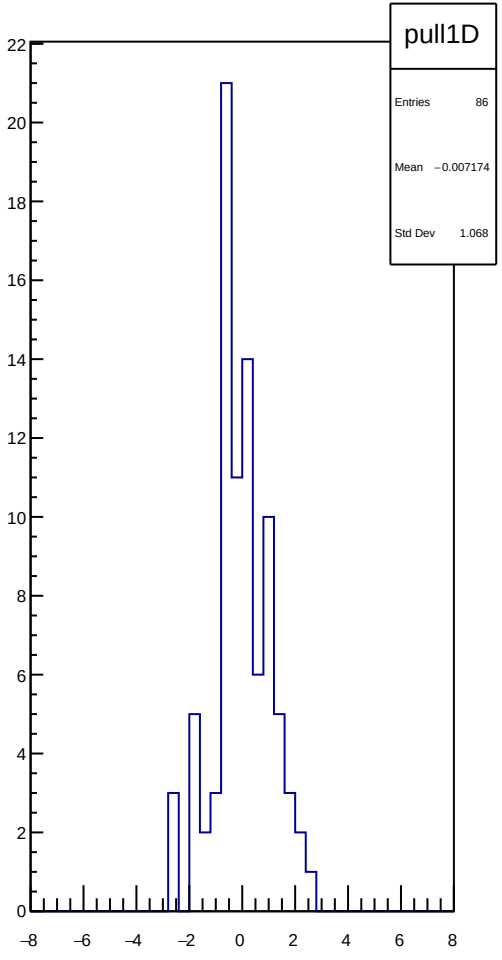

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.674e+05 / 85
p0 5.184e−10 ± 5.314e−13
4
3.5
3
2.5
2
1.5
1
0.5

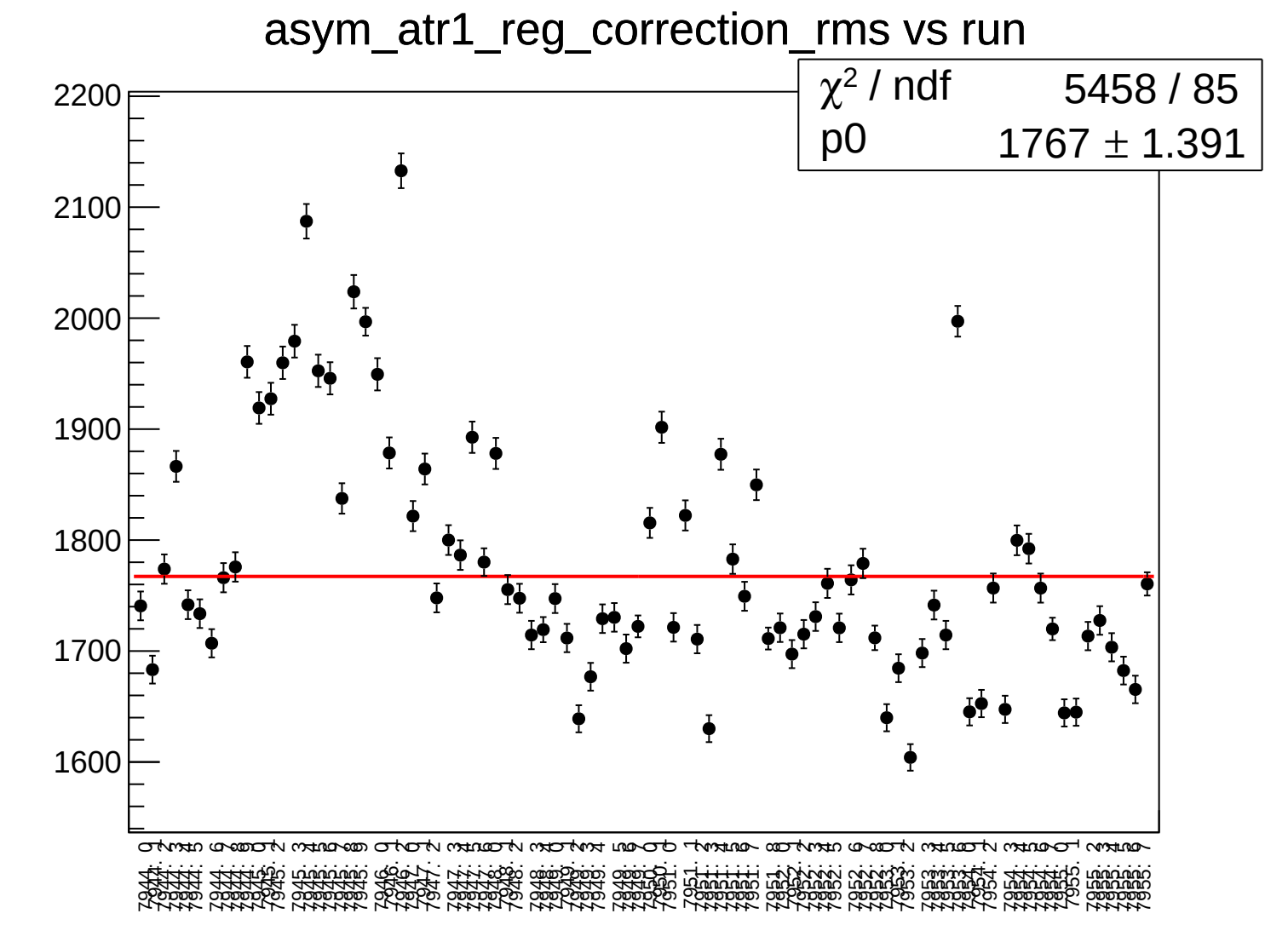

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 68.69 / 85
p0 1425 ± 3050
100
50
0
−50
−100
pull
Entries 86
Mean 3105
Std Dev 0
2
1
0
−1
−2

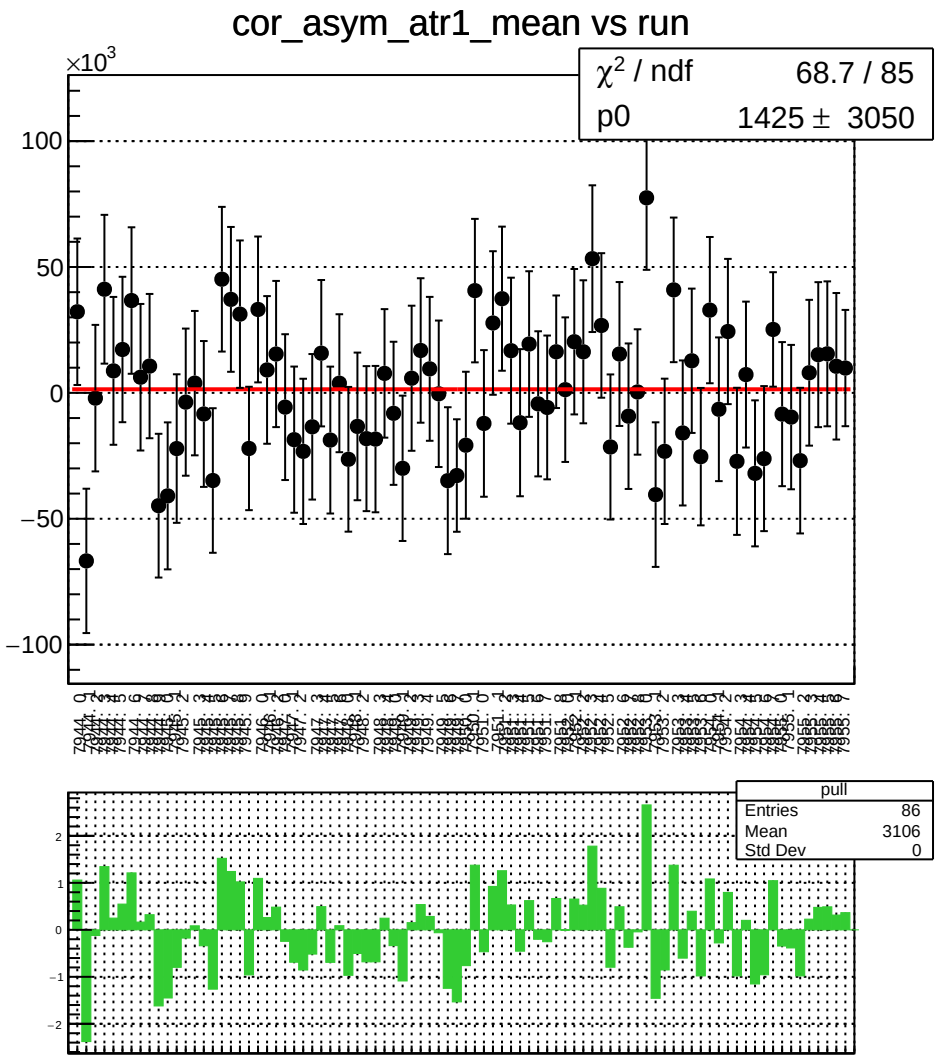

pull1D
Entries 86
Mean 0.000453
Std Dev 0.8937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

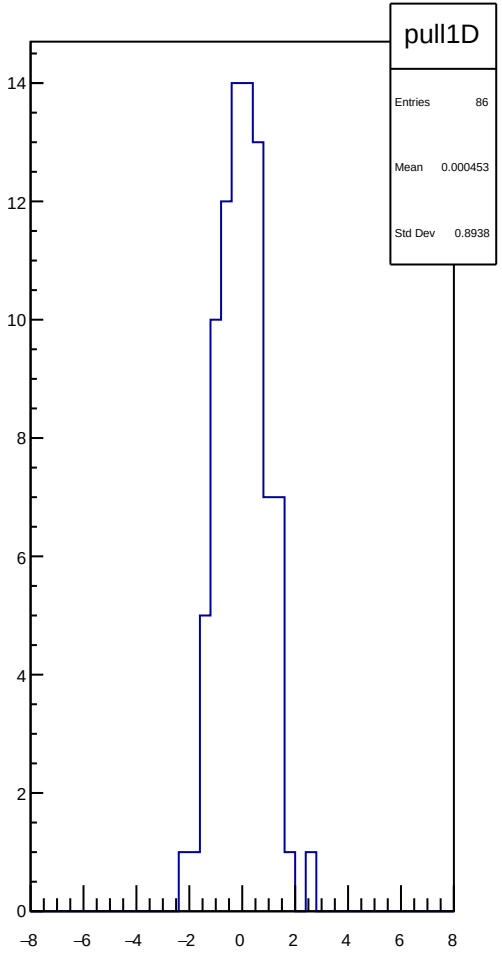

reg_asym_atr1_rms vs run
χ^2 / ndf 118.8 / 85
p0 2744 ± 2.156
2820
2800
2780
2760
2740
2720
2700
2680
2660

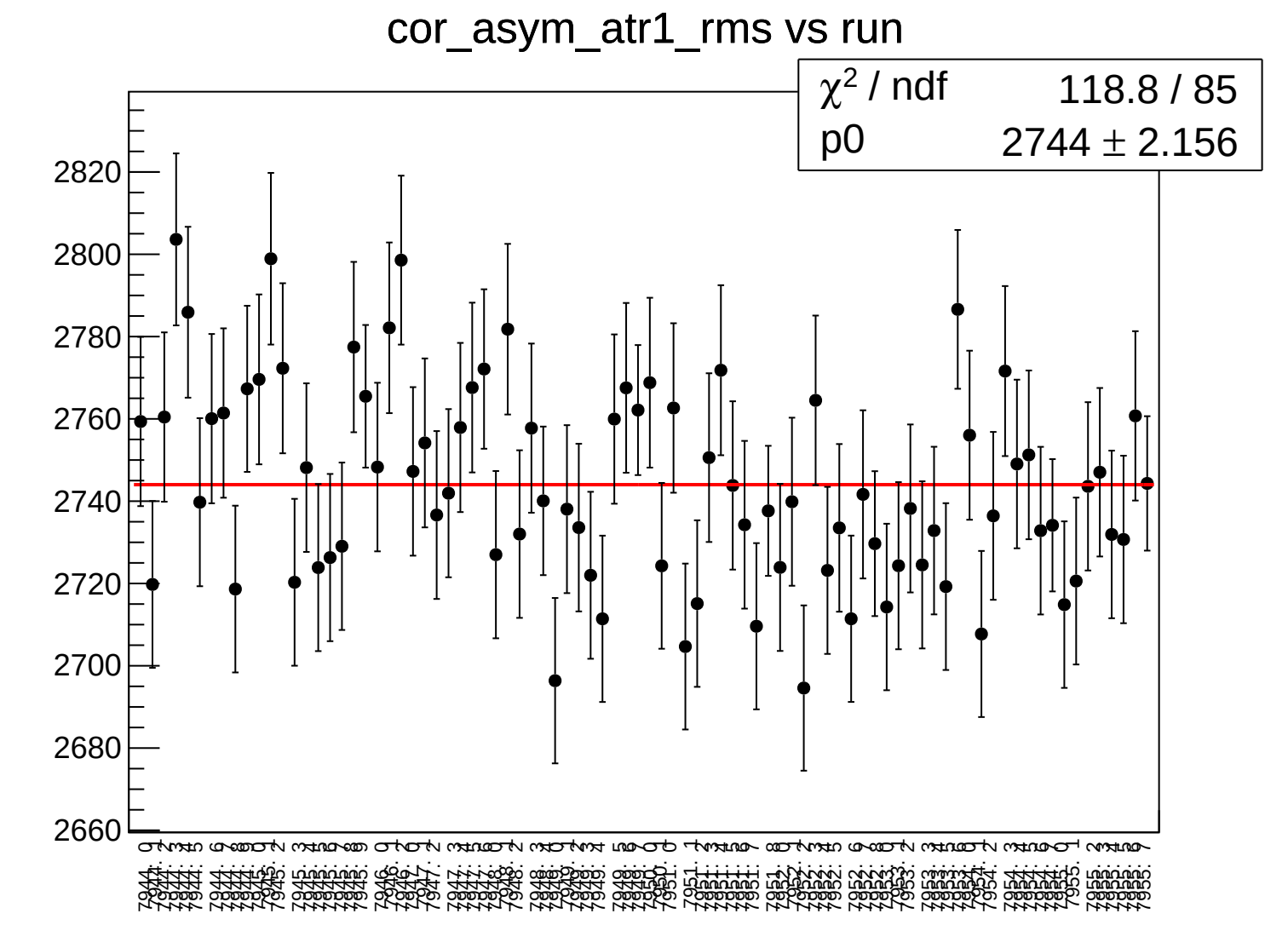

asym_atr1_reg_correction_mean vs run
χ² / ndf 98.02 / 85
p0 −1194 ± 1967
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −132.4
Std Dev 0
2
1
0
−1
−2

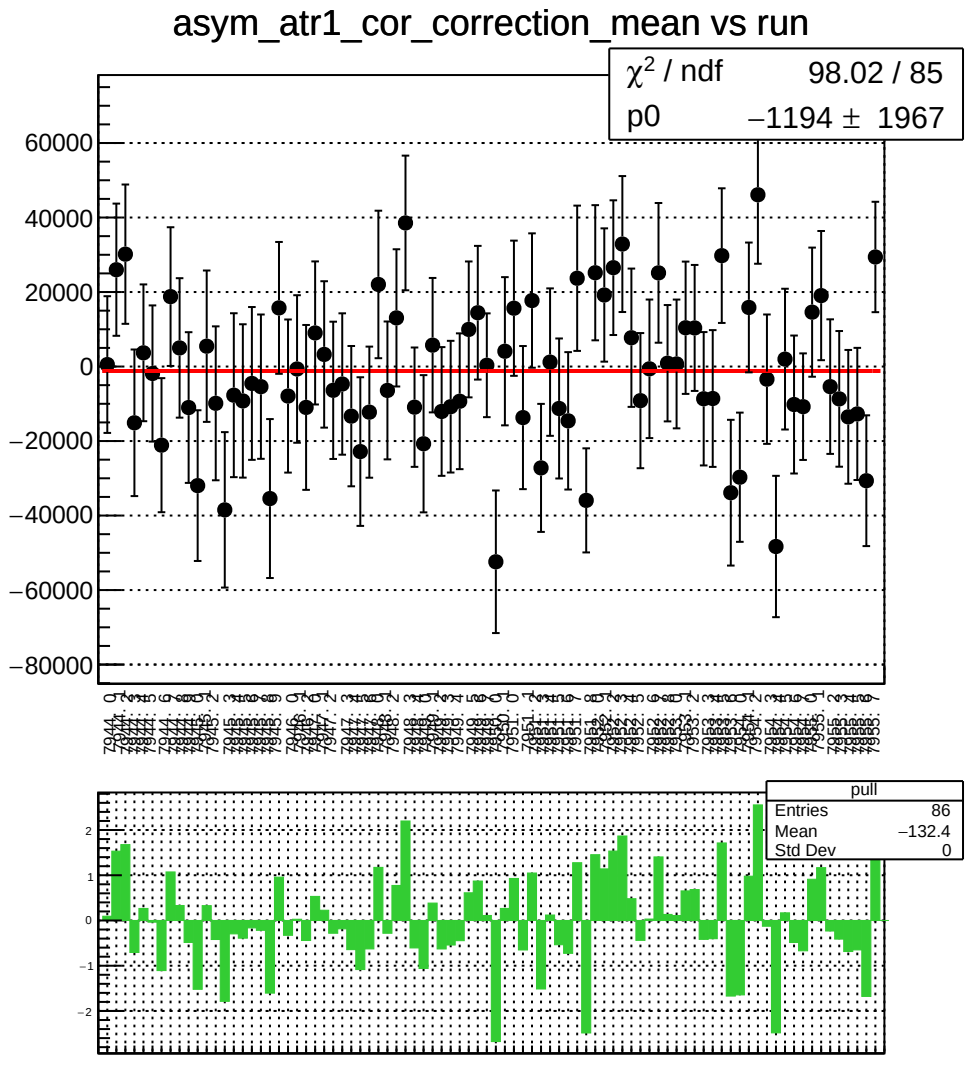

pull1D
Entries 86
Mean −0.007174
Std Dev 1.068
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

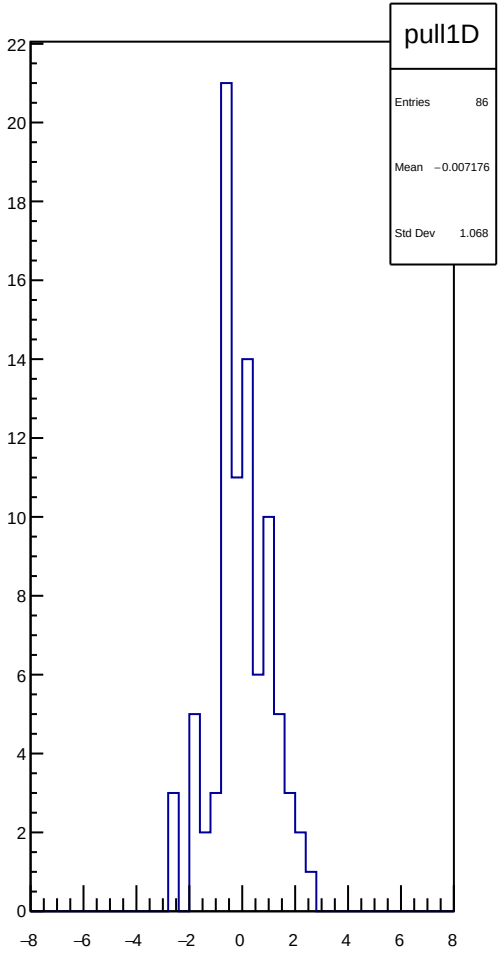

asym_atr1_reg_correction_rms vs run
χ² / ndf 5458 / 85
p0 1767 ± 1.391
2200
2100
2000
1900
1800
1700
1600

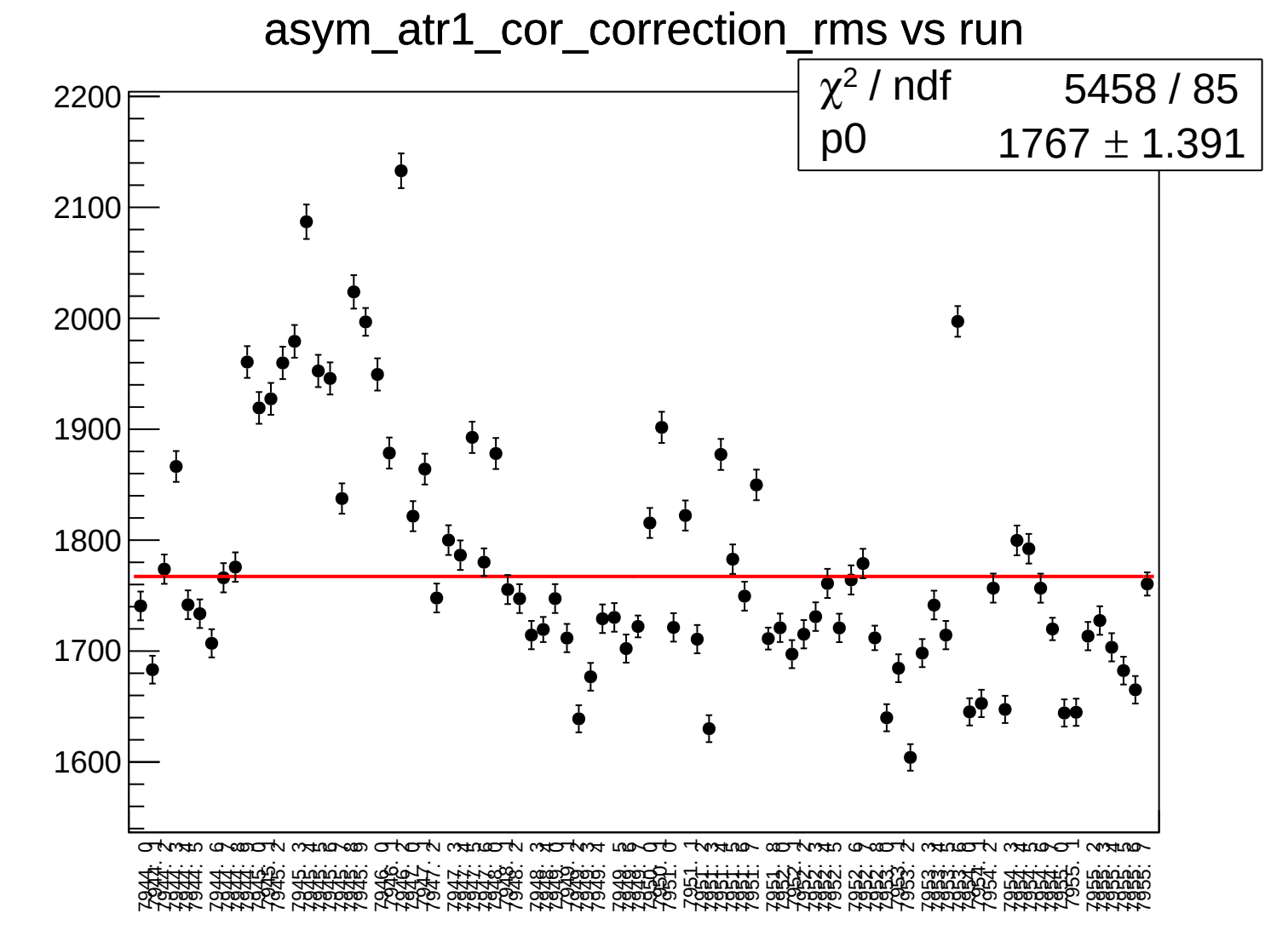

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 68.7 / 85
p0 1425 ± 3050
100
50
0
−50
−100
pull
Entries 86
Mean 3106
Std Dev 0
2
1
0
−1
−2

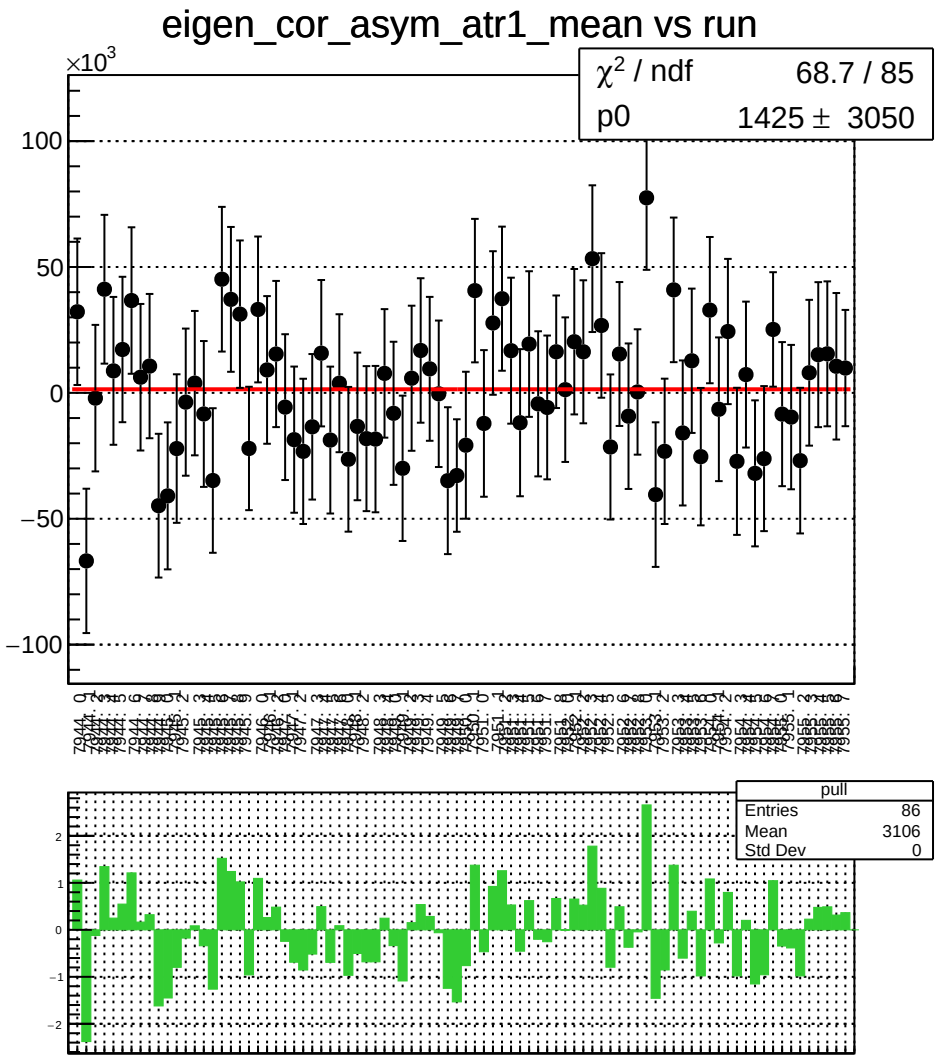

pull1D
Entries 86
Mean 0.000453
Std Dev 0.8938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

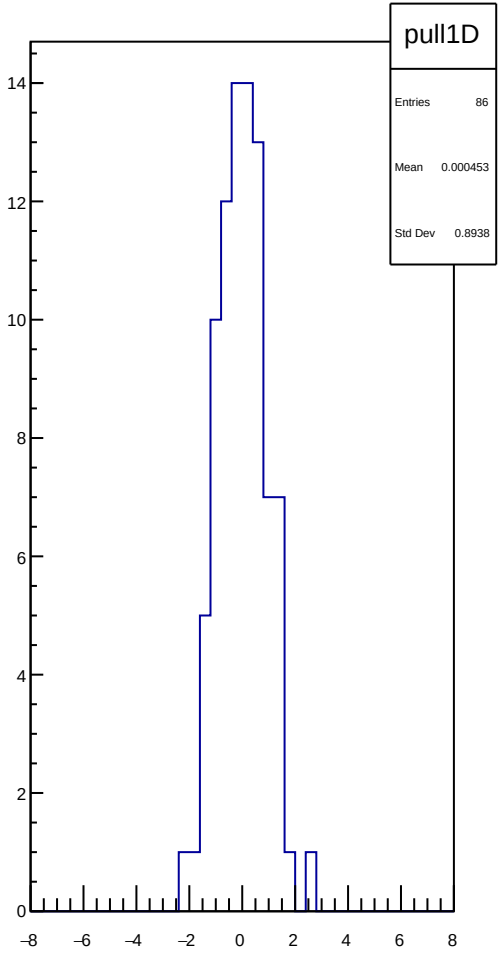

cor_asym_atr1_rms vs run
χ² / ndf 118.8 / 85
p0 2744 ± 2.156
2820
2800
2780
2760
2740
2720
2700
2680
2660

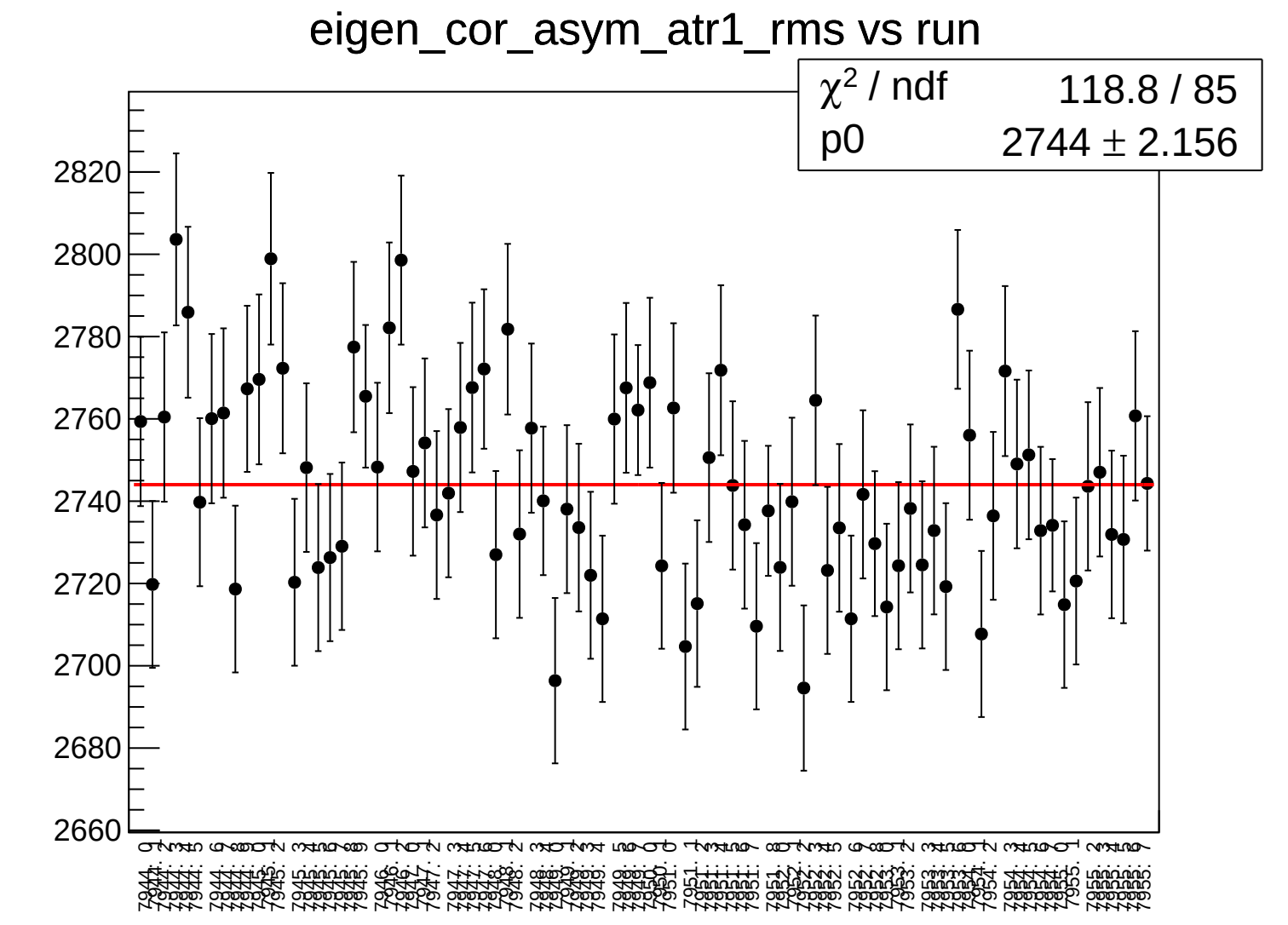

asym_atr1_cor_correction_mean vs run
χ² / ndf 98.02 / 85
p0 −1194 ± 1967
pull
Entries 86
Mean −132.4
Std Dev 0

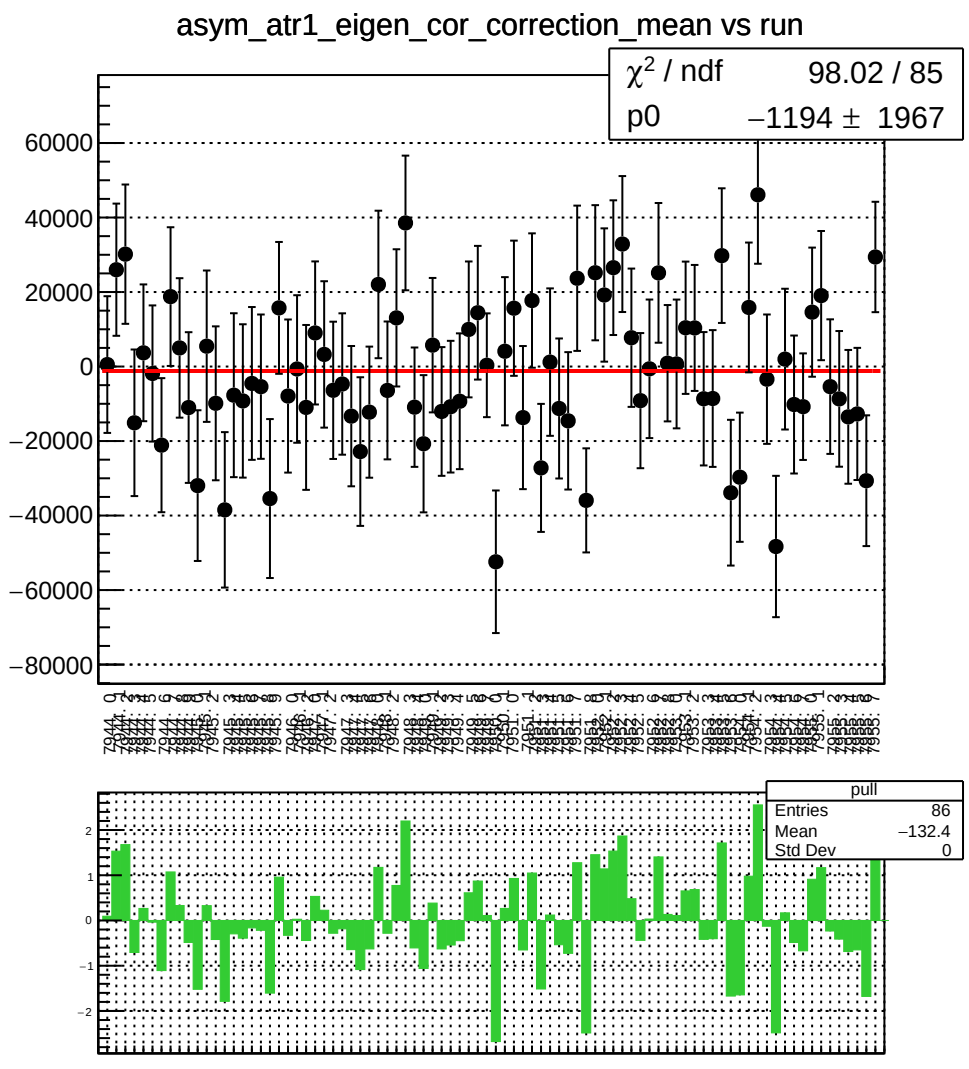

pull1D
Entries 86
Mean −0.007176
Std Dev 1.068

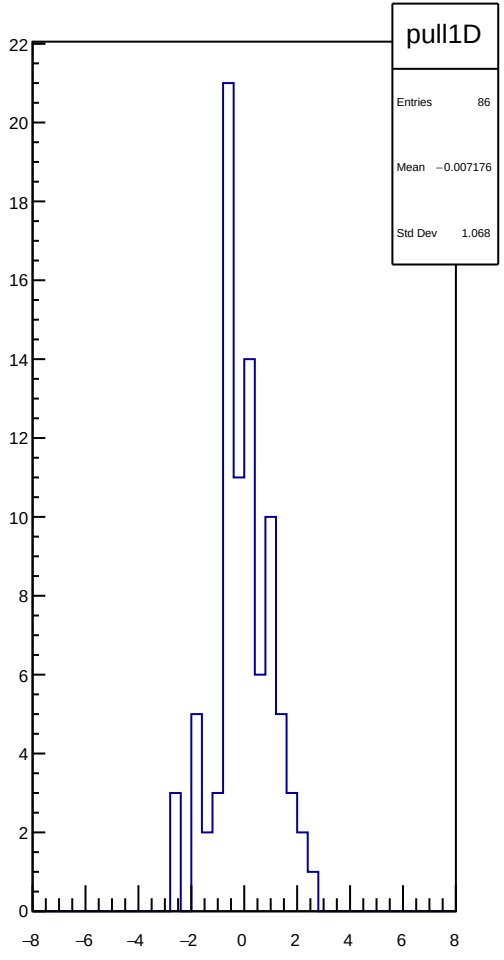

asym_atr1_cor_correction_rms vs run
χ² / ndf 5458 / 85
p0 1767 ± 1.391
2200
2100
2000
1900
1800
1700
1600

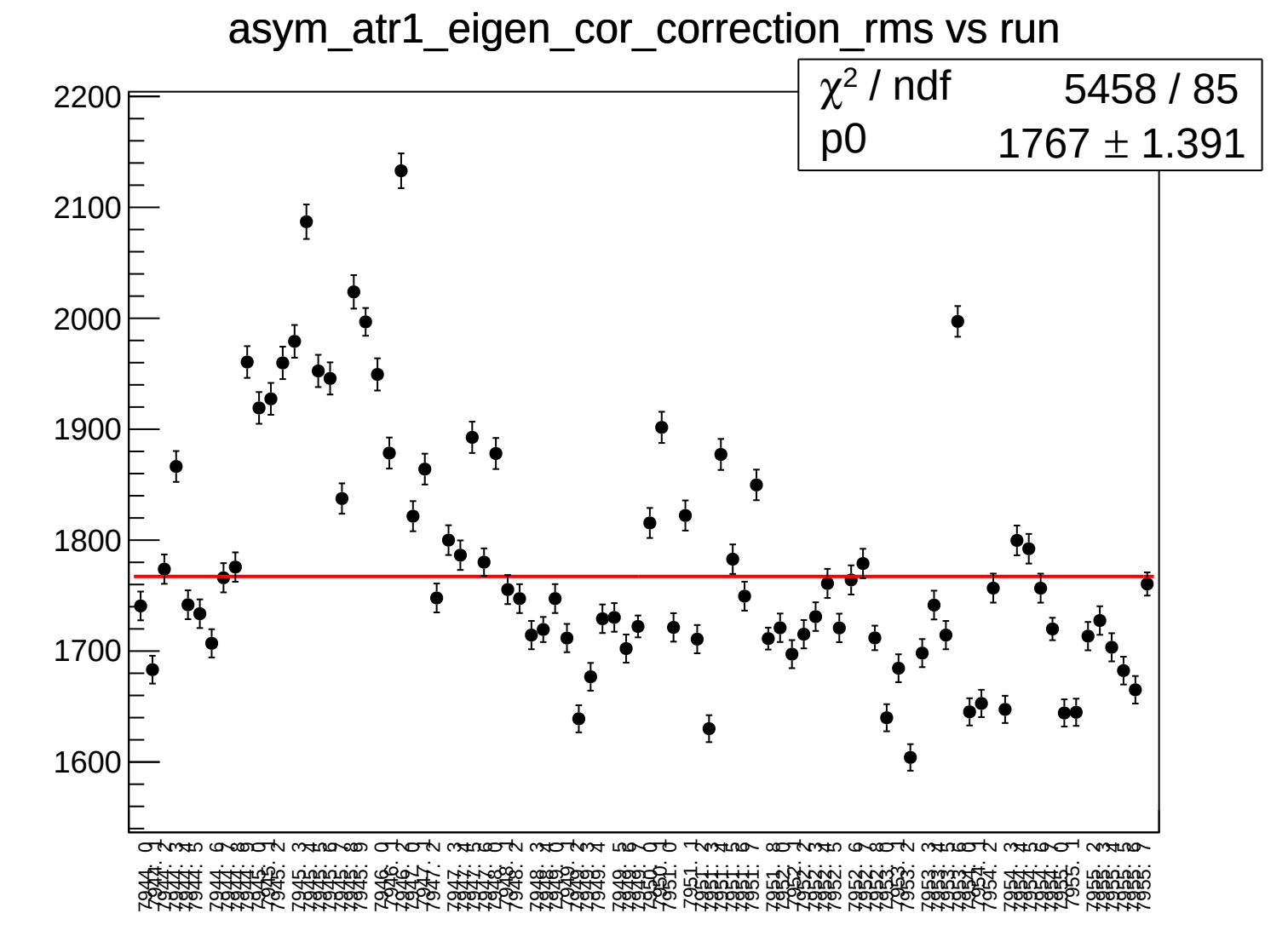

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 68.7 / 85
p0 1425 ± 3050
100
50
0
−50
−100
pull
Entries 86
Mean 3106
Std Dev 0
2
1
0
−1
−2

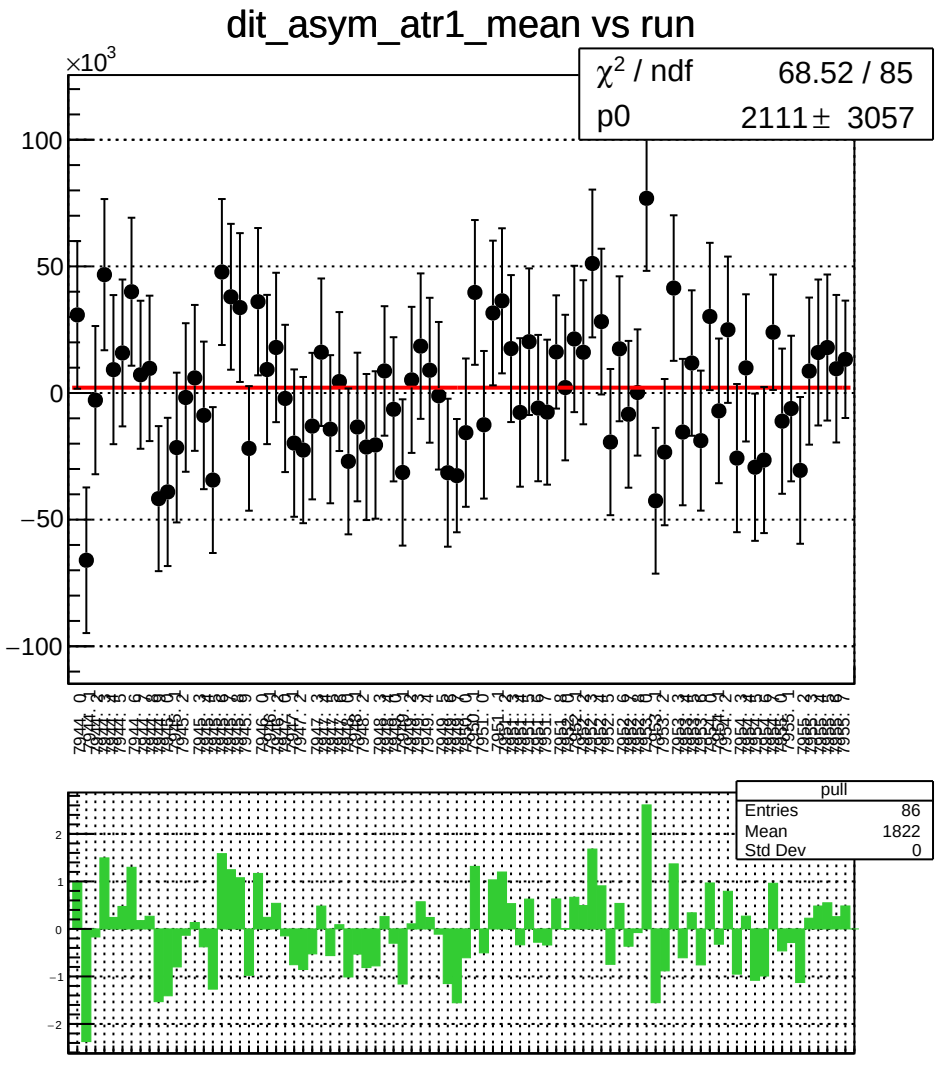

pull1D
Entries 86
Mean 0.000453
Std Dev 0.8938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

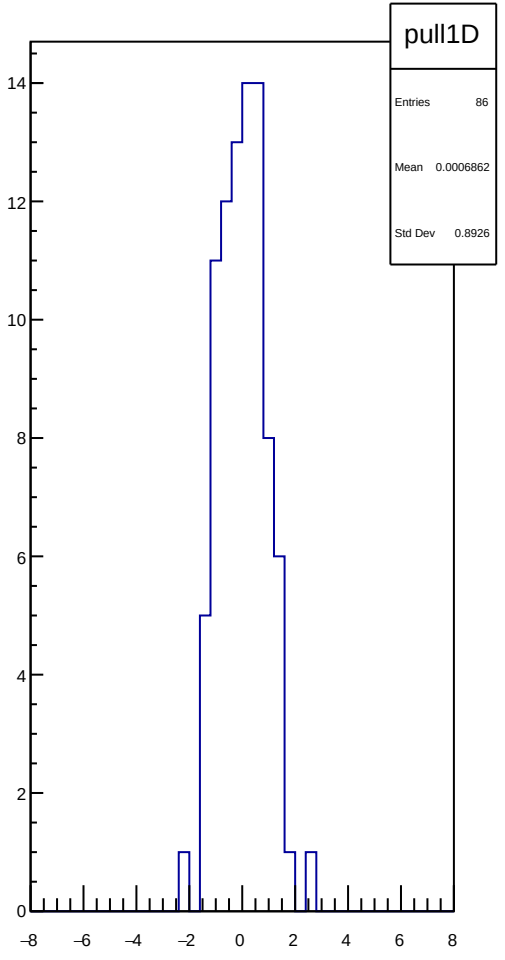

eigen_cor_asym_atr1_rms vs run
χ² / ndf 118.8 / 85
p0 2744 ± 2.156
2820
2800
2780
2760
2740
2720
2700
2680
2660

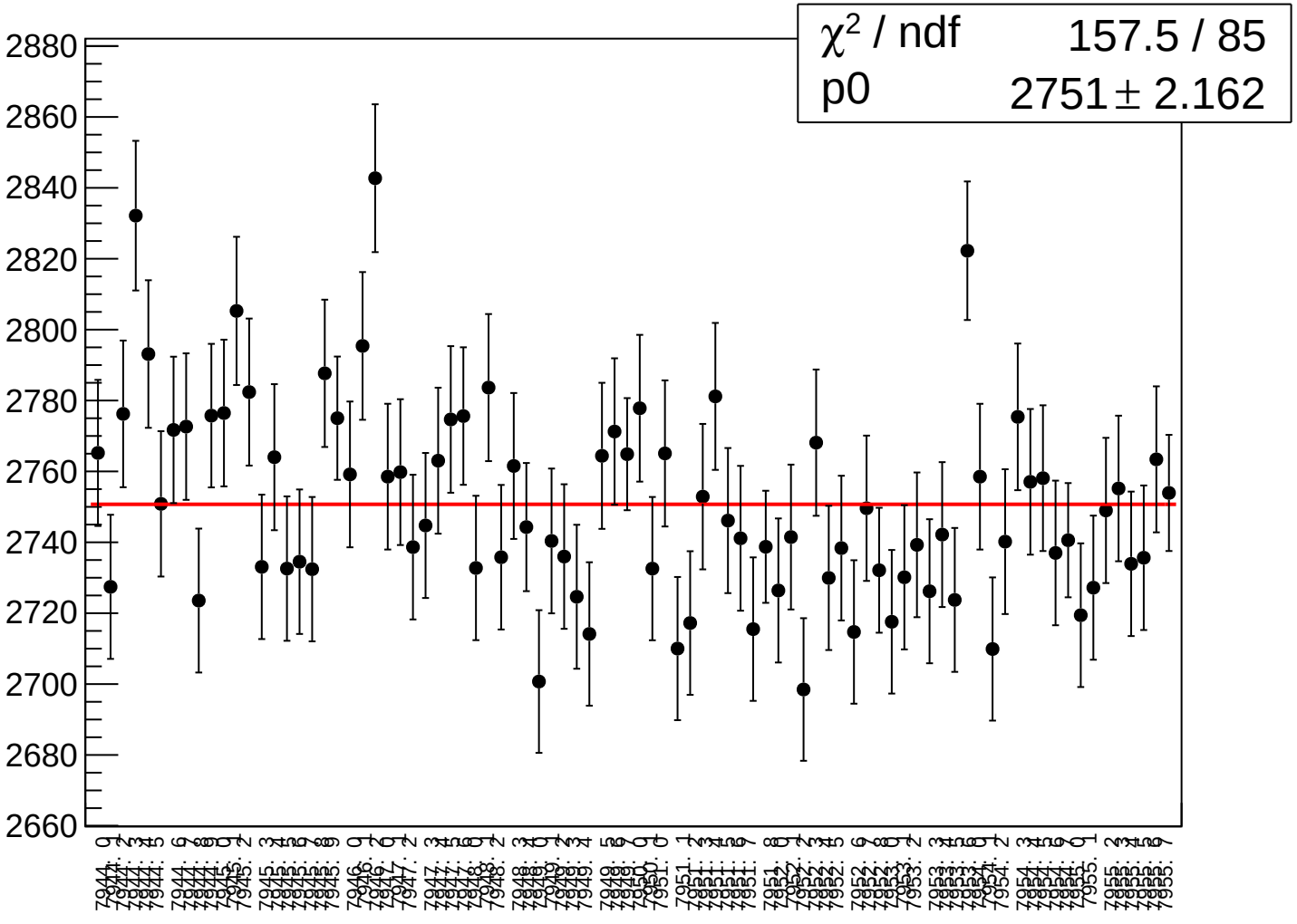

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 98.02 / 85
p0 −1194 ± 1967
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −132.4
Std Dev 0
2
1
0
−1
−2

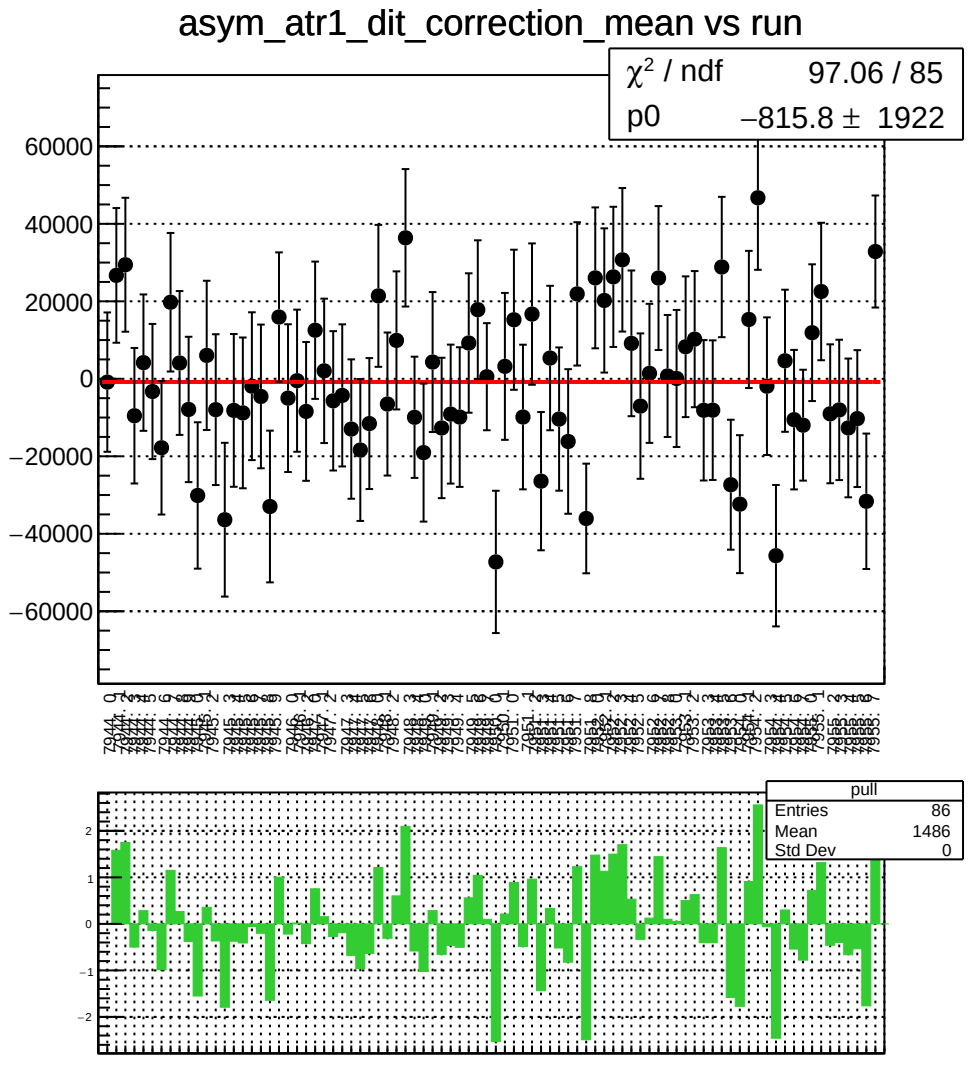

pull1D
Entries 86
Mean −0.007176
Std Dev 1.068
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

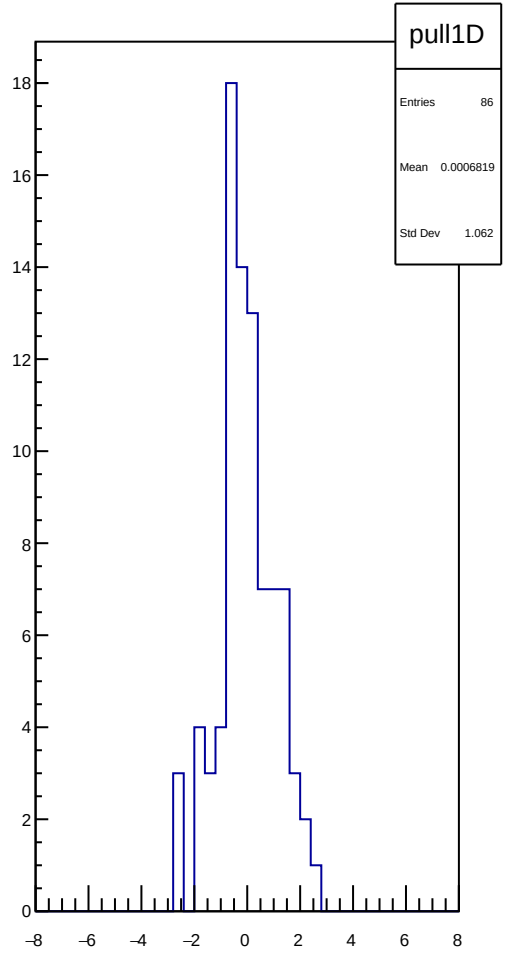

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 5458 / 85
p0 1767 ± 1.391
2200
2100
2000
1900
1800
1700
1600

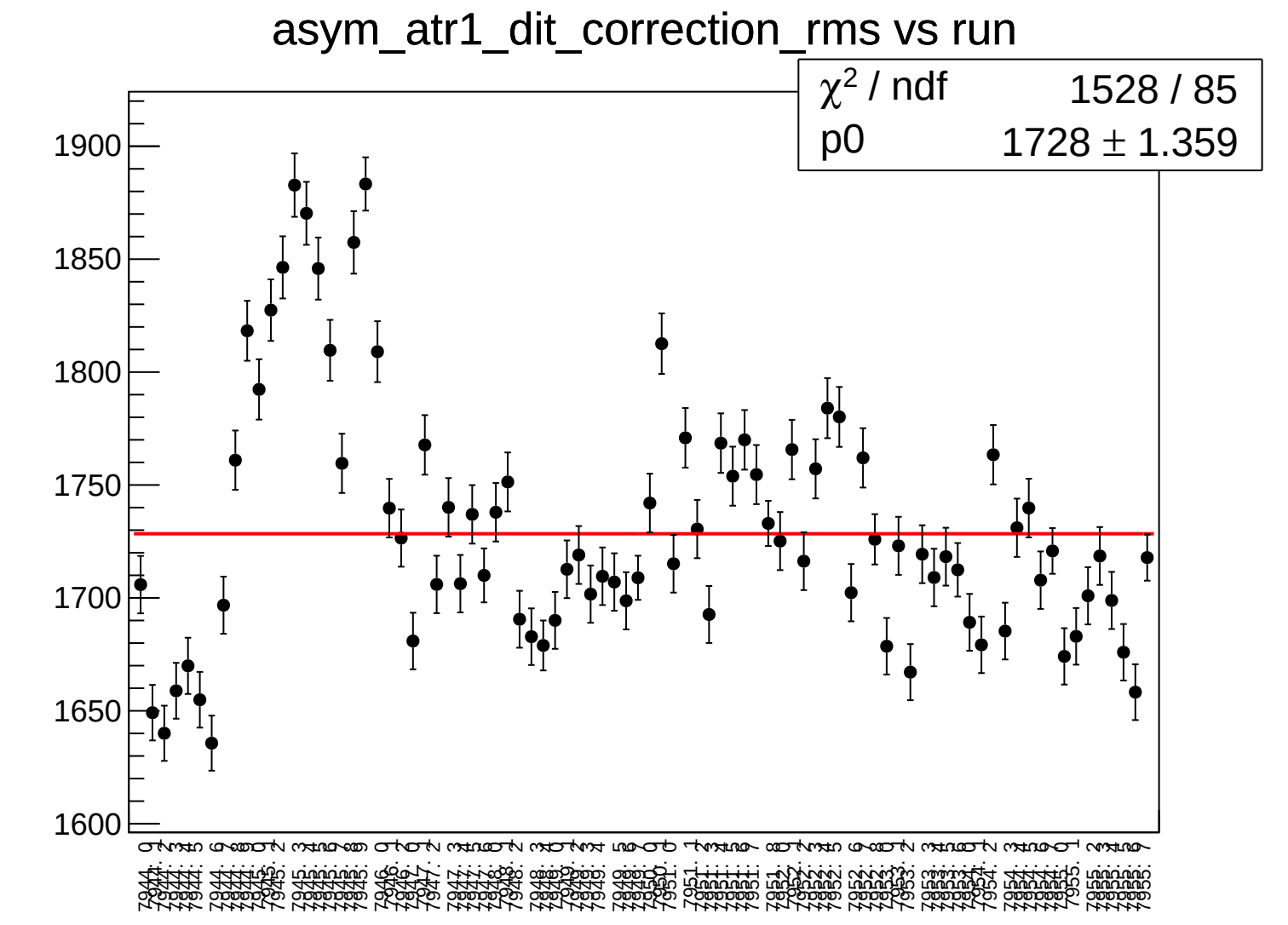

dit_asym_atr1_mean vs run
χ² / ndf 68.52 / 85
p0 2111 ± 3057
×10³
pull
Entries 86
Mean 1822
Std Dev 0

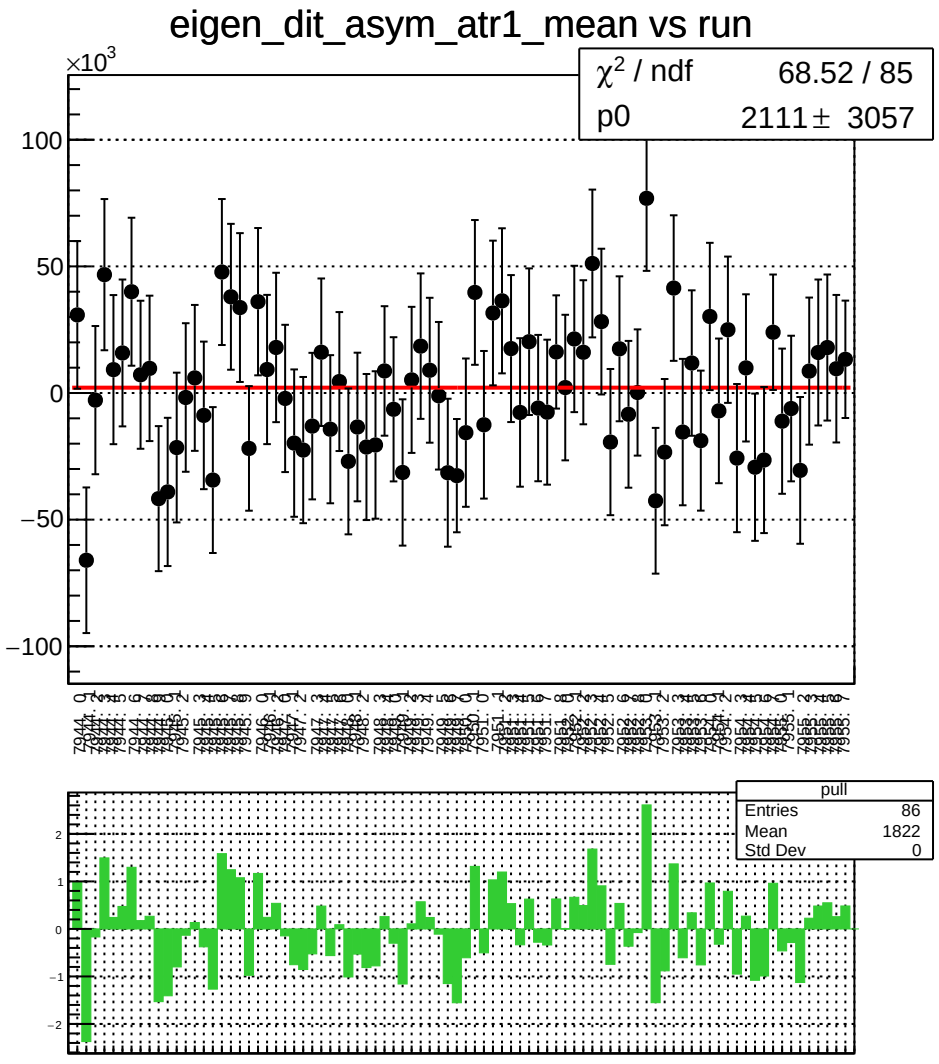

pull1D
Entries 86
Mean 0.0006862
Std Dev 0.8926

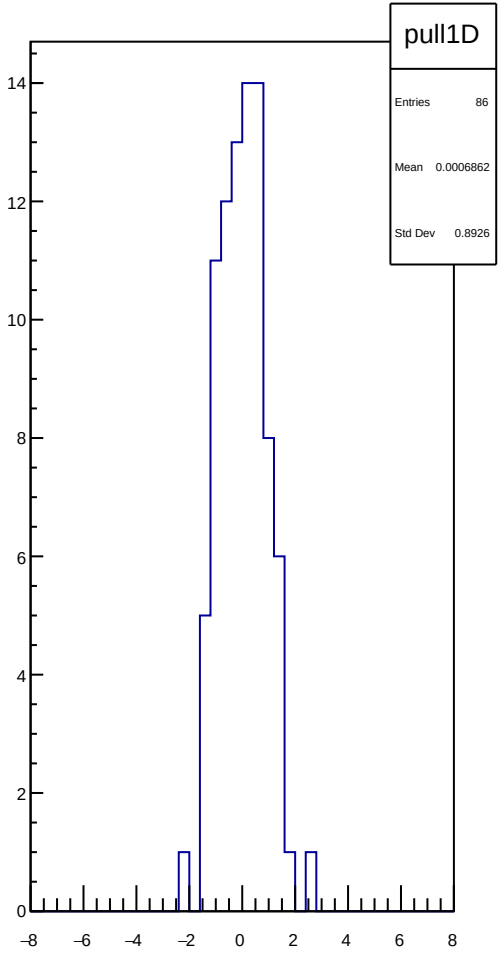

dit_asym_atr1_rms vs run
χ² / ndf 157.5 / 85
p0 2751 ± 2.162
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660

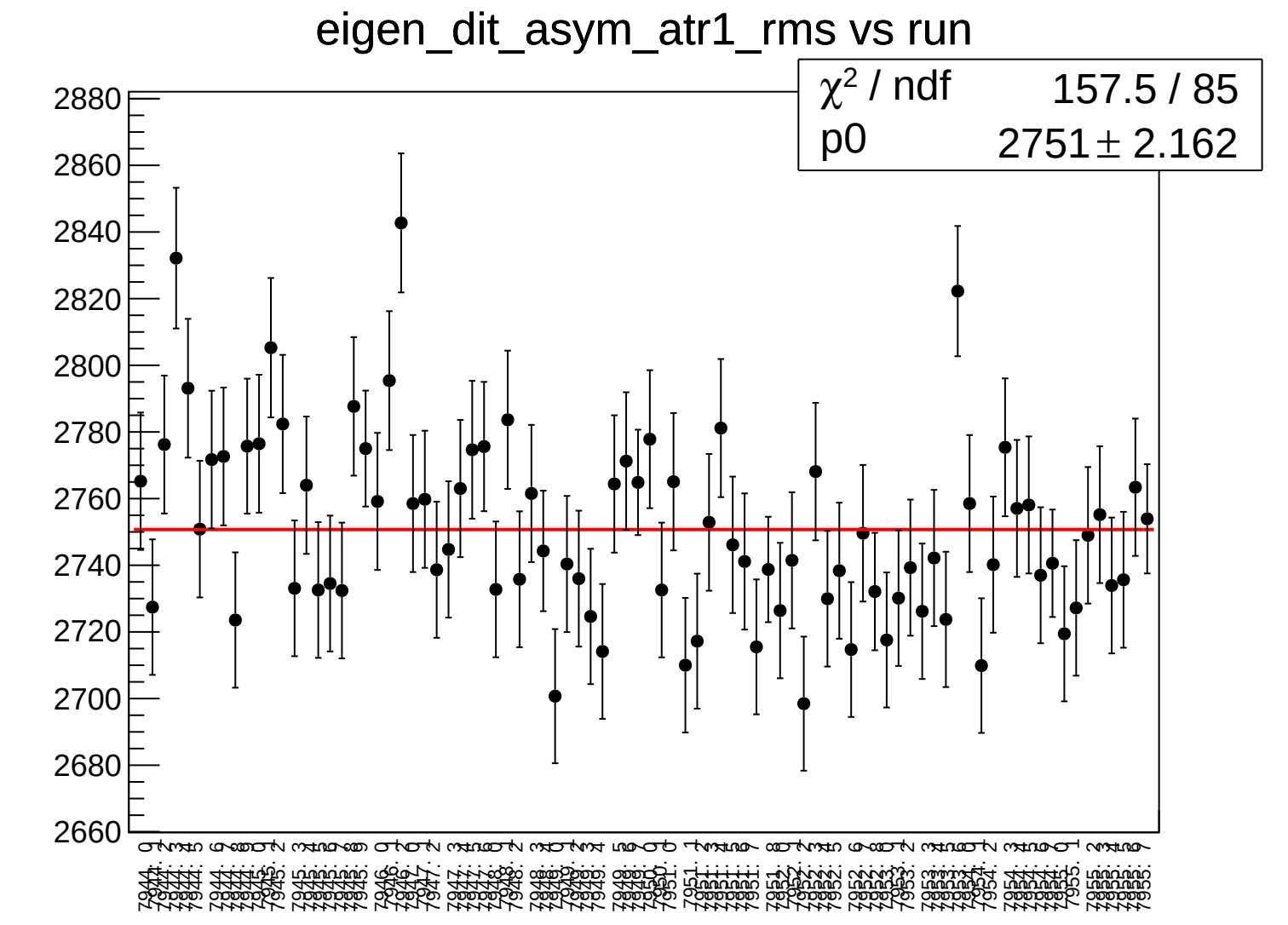

asym_atr1_dit_correction_mean vs run
χ² / ndf 97.06 / 85
p0 −815.8 ± 1922
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1486
Std Dev 0
2
1
0
−1
−2

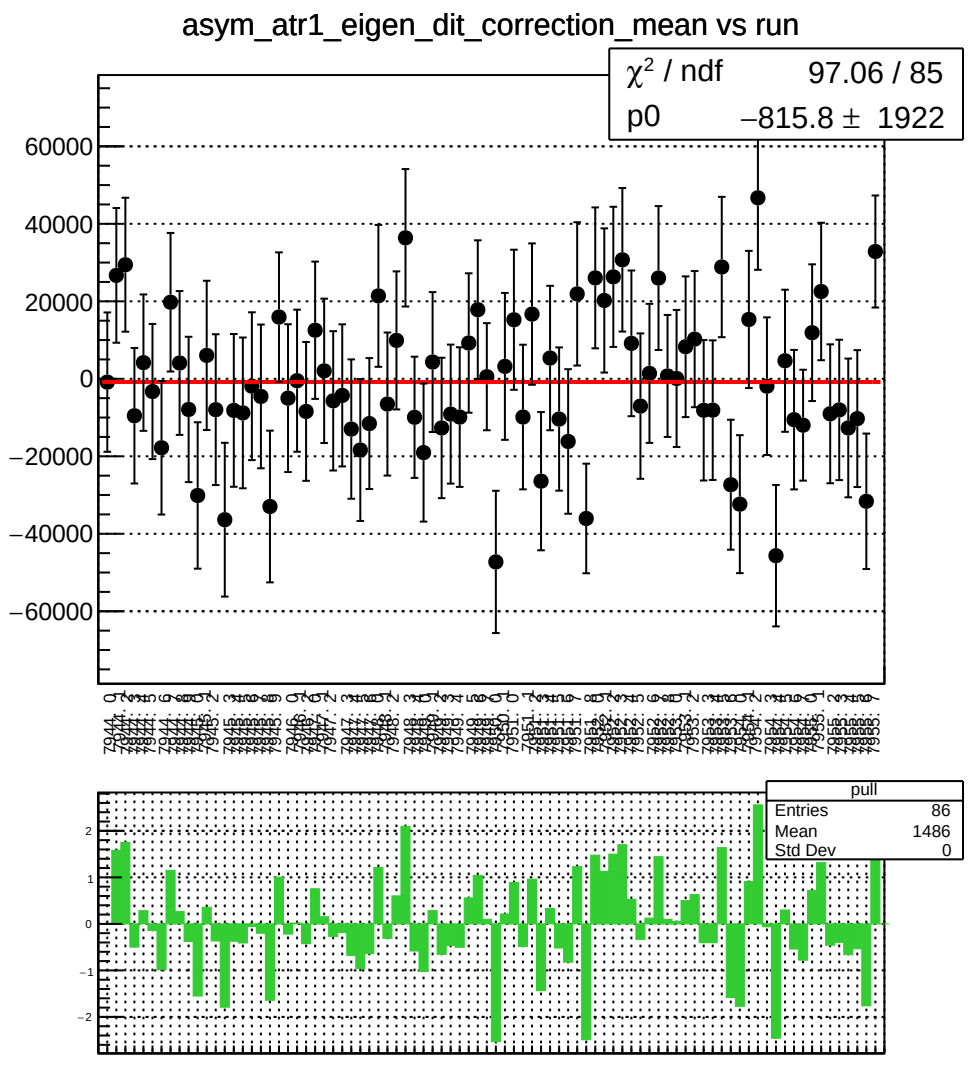

pull1D
Entries 86
Mean 0.0006819
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

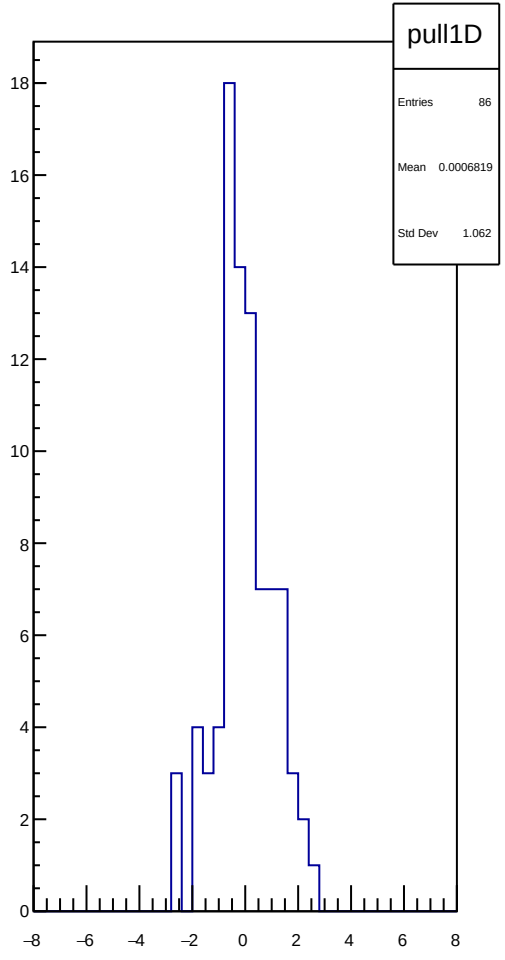

asym_atr1_dit_correction_rms vs run
χ² / ndf 1528 / 85
p0 1728 ± 1.359
1900
1850
1800
1750
1700
1650
1600

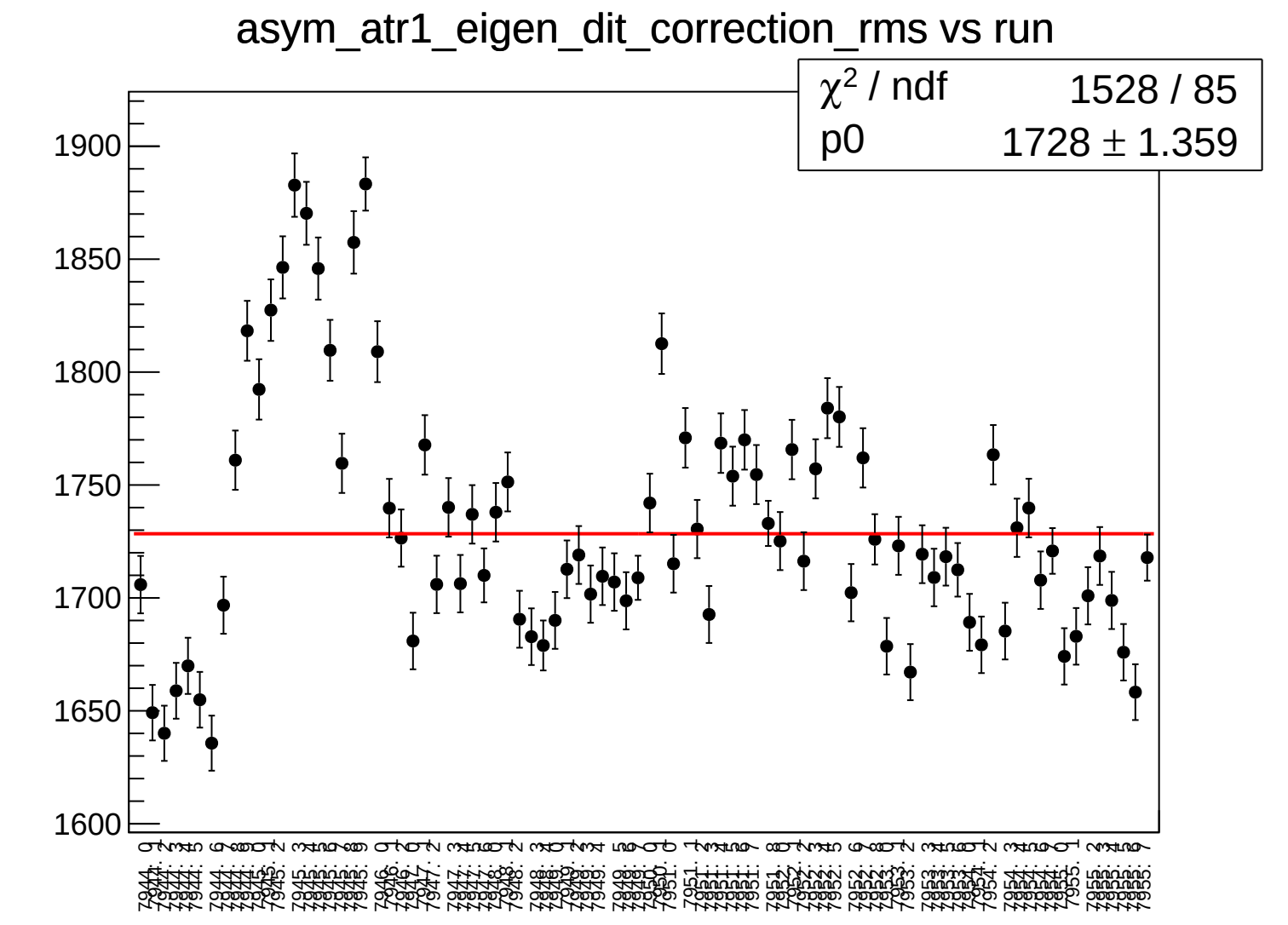

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 68.52 / 85
p0 2111 ± 3057
100
50
0
−50
−100
pull
Entries 86
Mean 1822
Std Dev 0
2
1
0
−1
−2

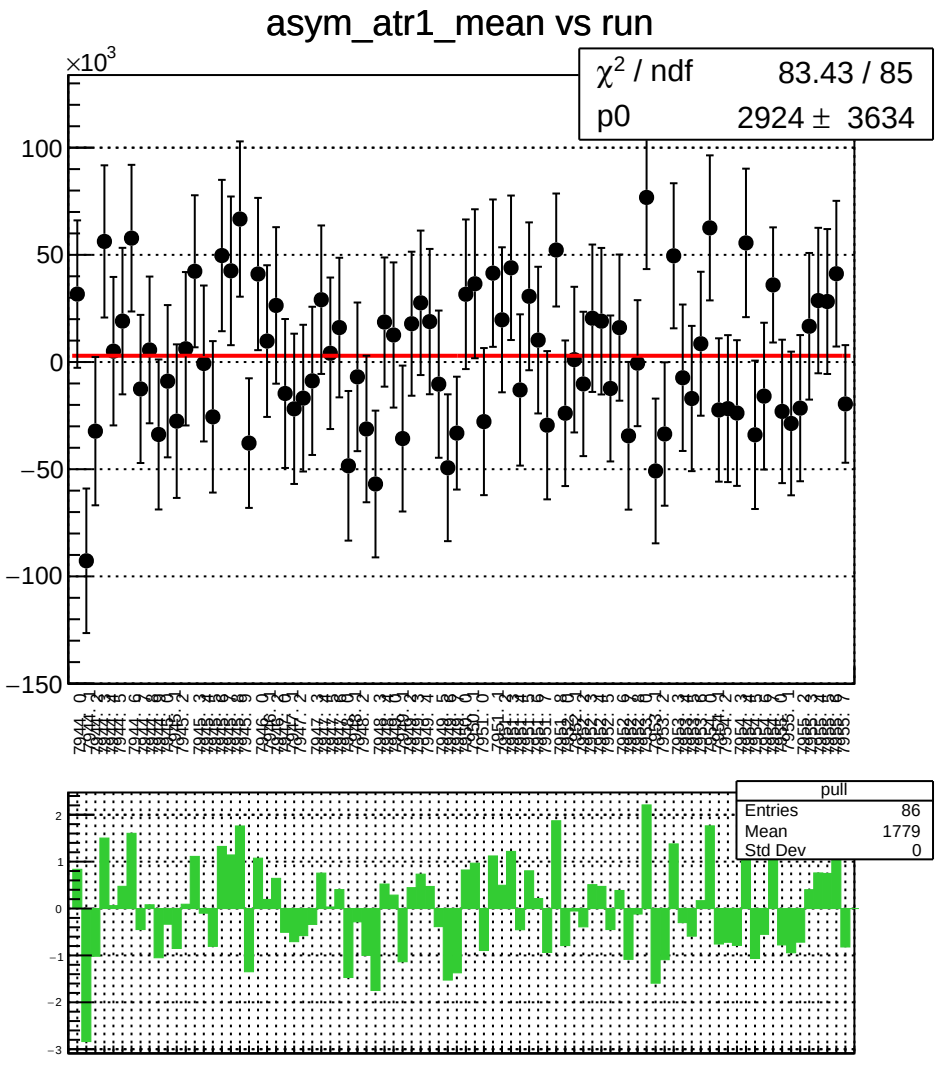

pull1D
Entries 86
Mean 0.0006862
Std Dev 0.8926
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

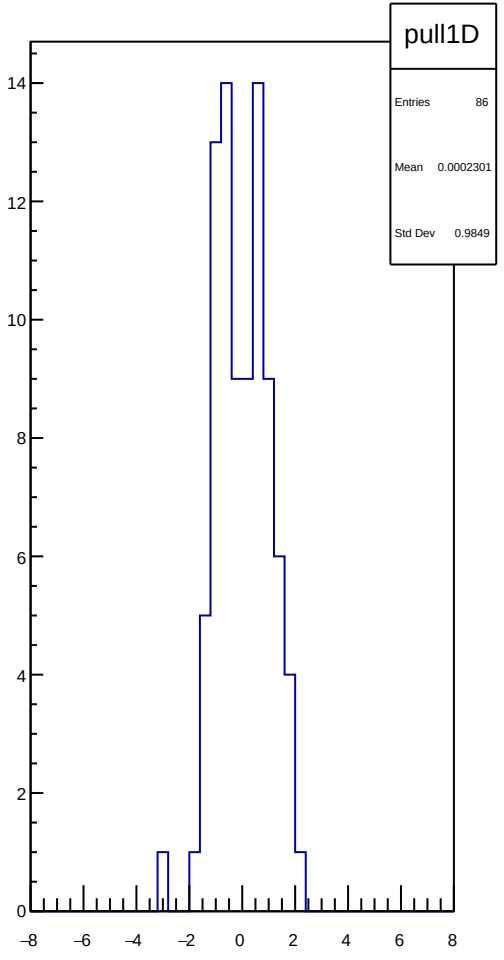

eigen_dit_asym_atr1_rms vs run
χ² / ndf 157.5 / 85
p0 2751 ± 2.162
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660

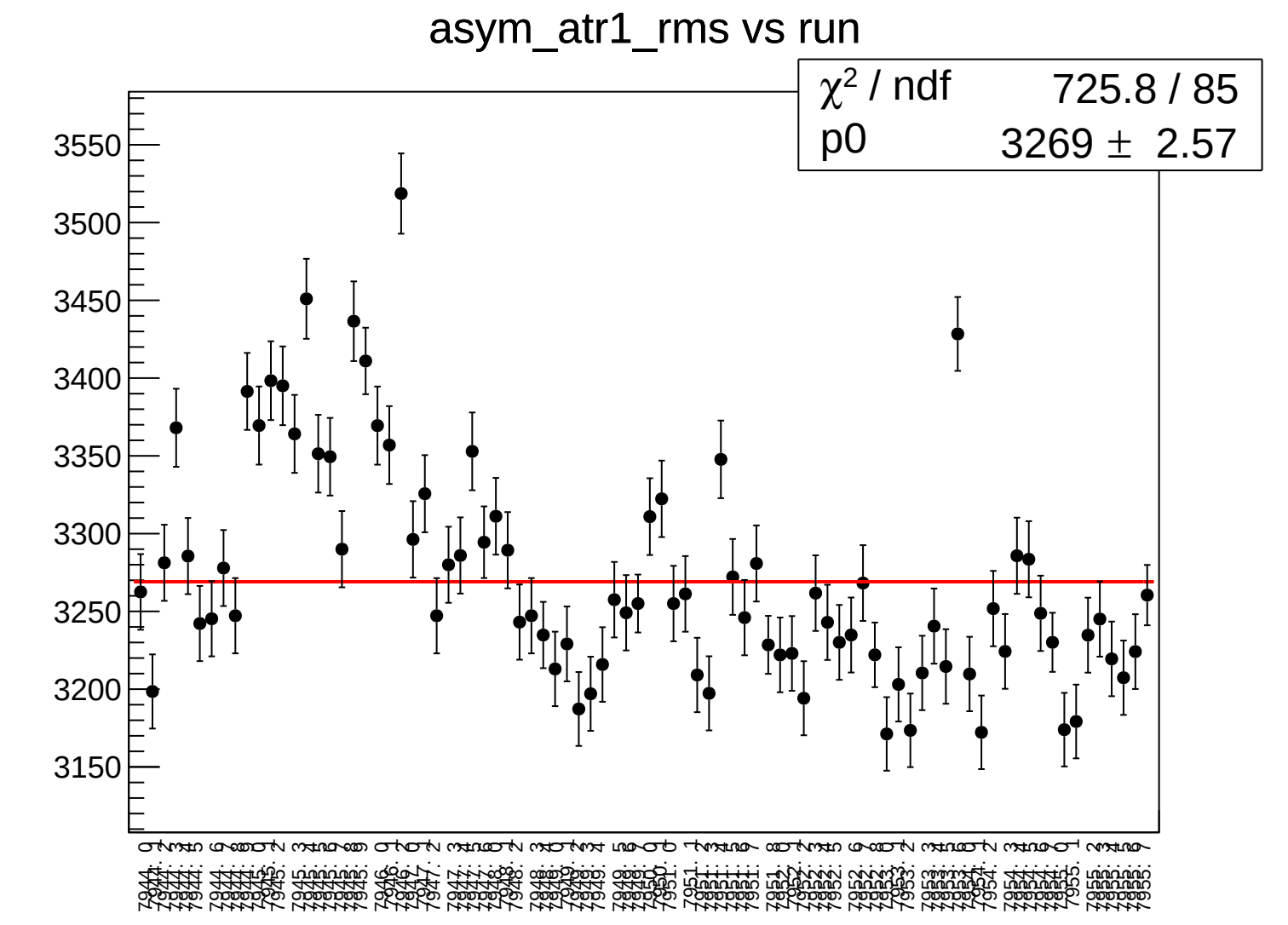

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 97.06 / 85
p0 −815.8 ± 1922
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1486
Std Dev 0
2
1
0
−1
−2

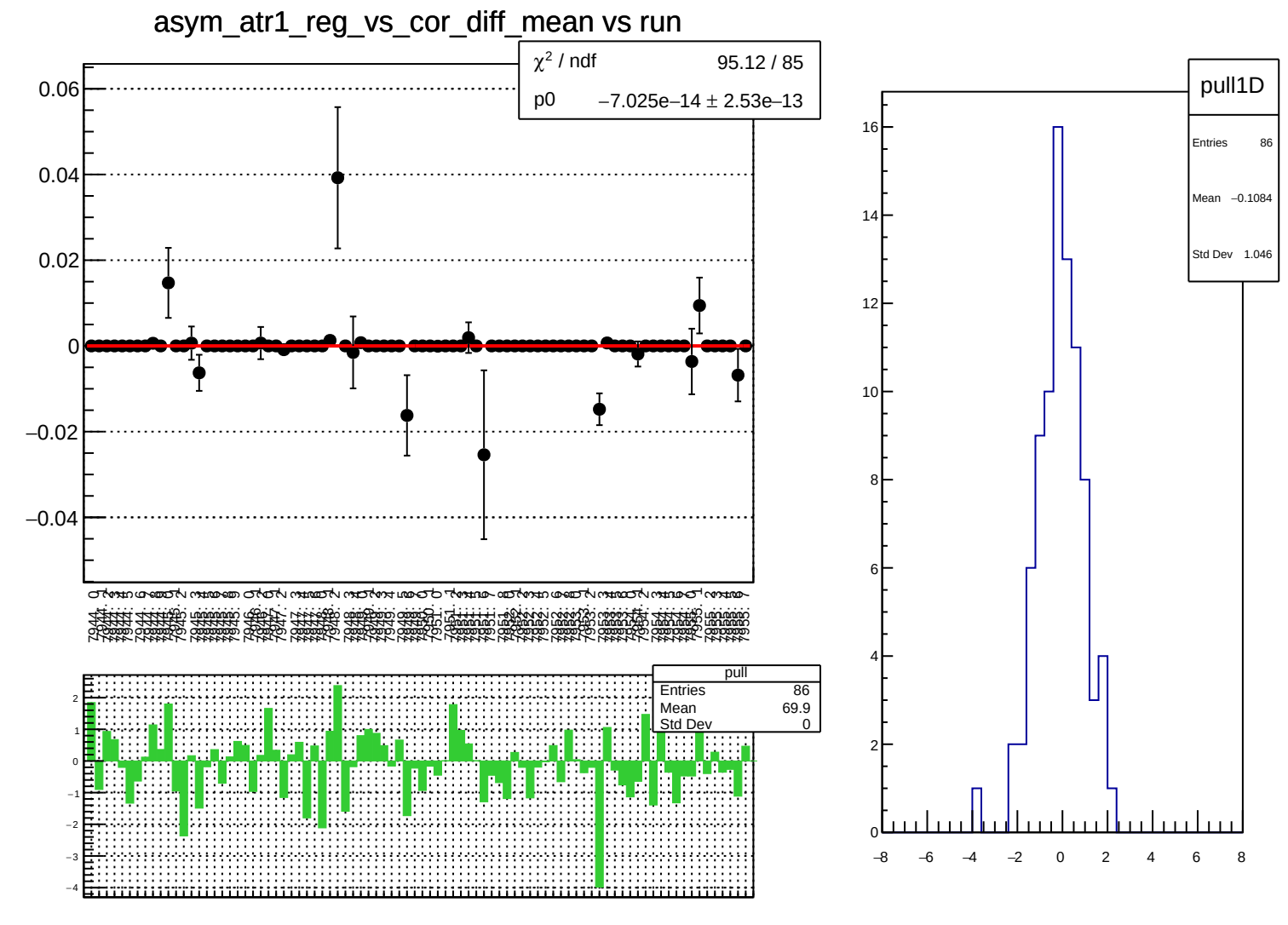

pull1D
Entries 86
Mean 0.0006819
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

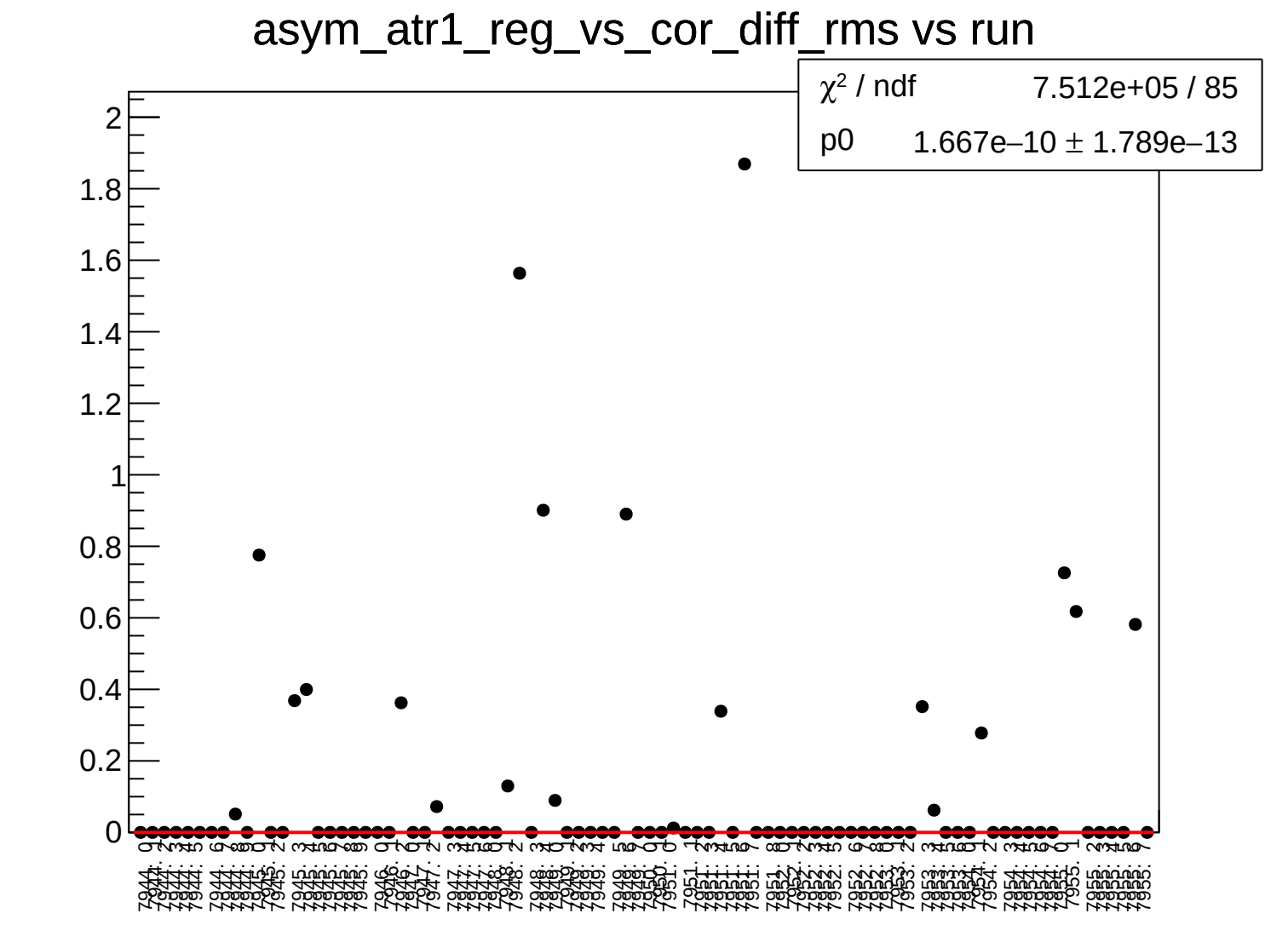

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1528 / 85
p0 1728 ± 1.359
1900
1850
1800
1750
1700
1650
1600

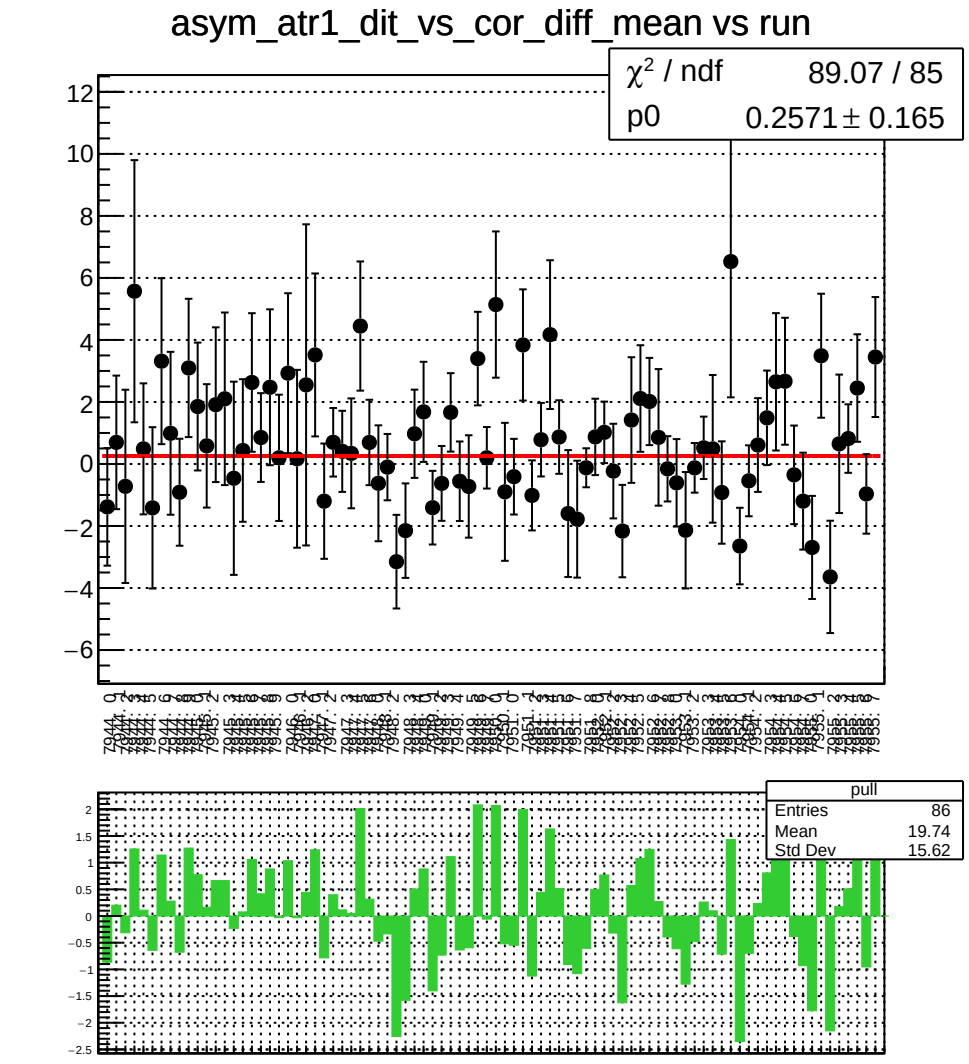

asym_atr1_mean vs run
×10^3
χ² / ndf 83.43 / 85
p0 2924 ± 3634
100
50
0
−50
−100
−150
pull
Entries 86
Mean 1779
Std Dev 0
2
1
0
−1
−2
−3

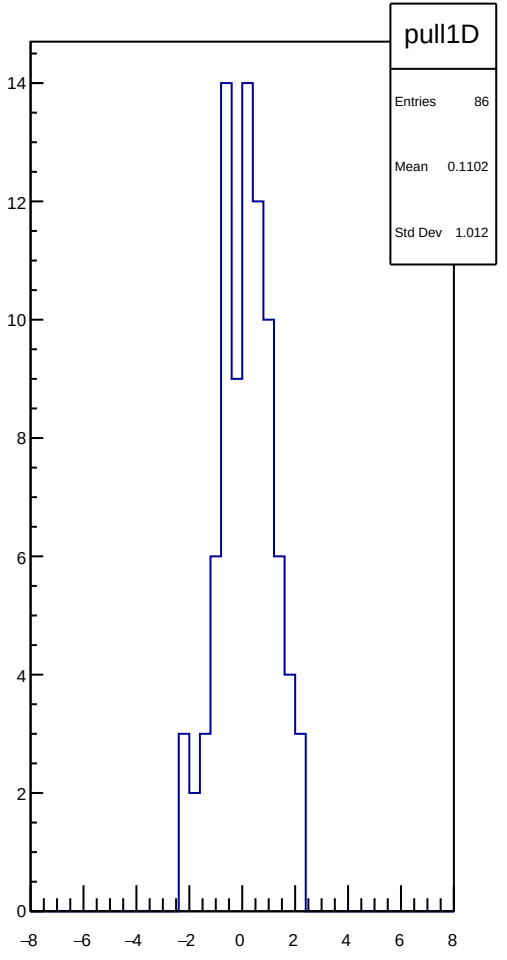

pull1D
Entries 86
Mean 0.0002301
Std Dev 0.9849
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

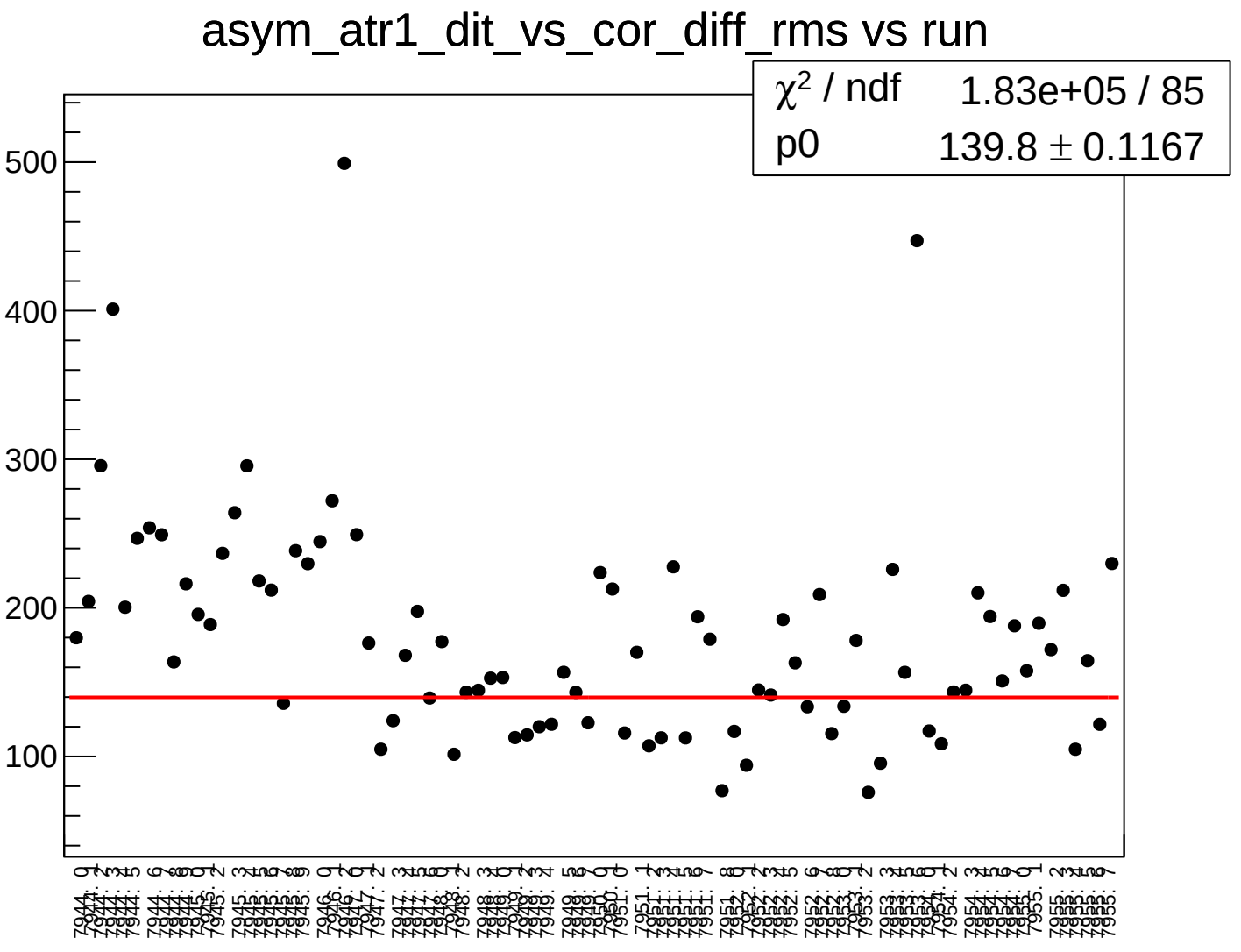

asym_atr1_rms vs run
χ² / ndf 725.8 / 85
p0 3269 ± 2.57
3550
3500
3450
3400
3350
3300
3250
3200
3150

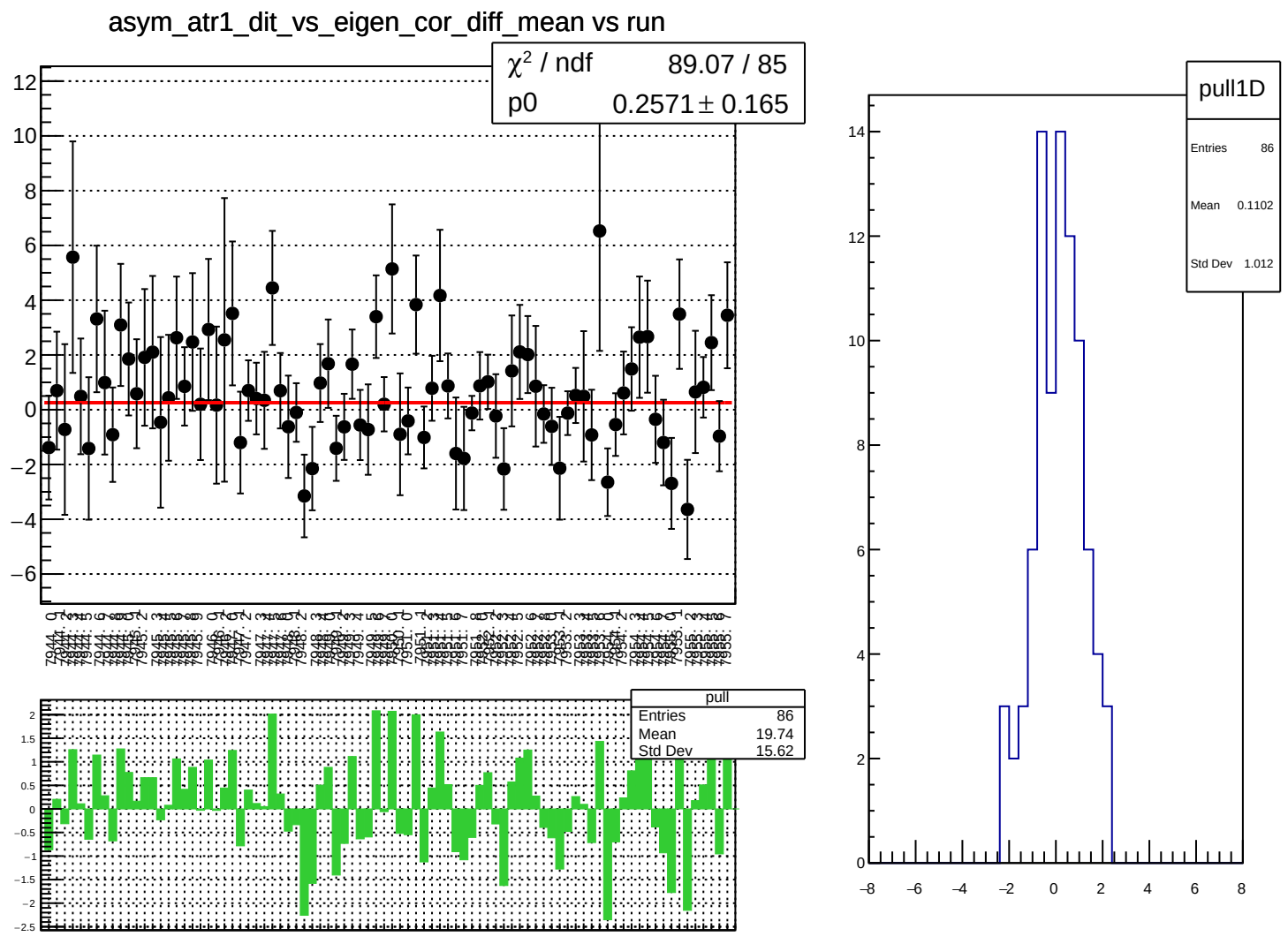

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 95.12 / 85
p0 −7.025e−14 ± 2.53e−13
pull
Entries 86
Mean 69.9
Std Dev 0
pull1D
Entries 86
Mean −0.1084
Std Dev 1.046

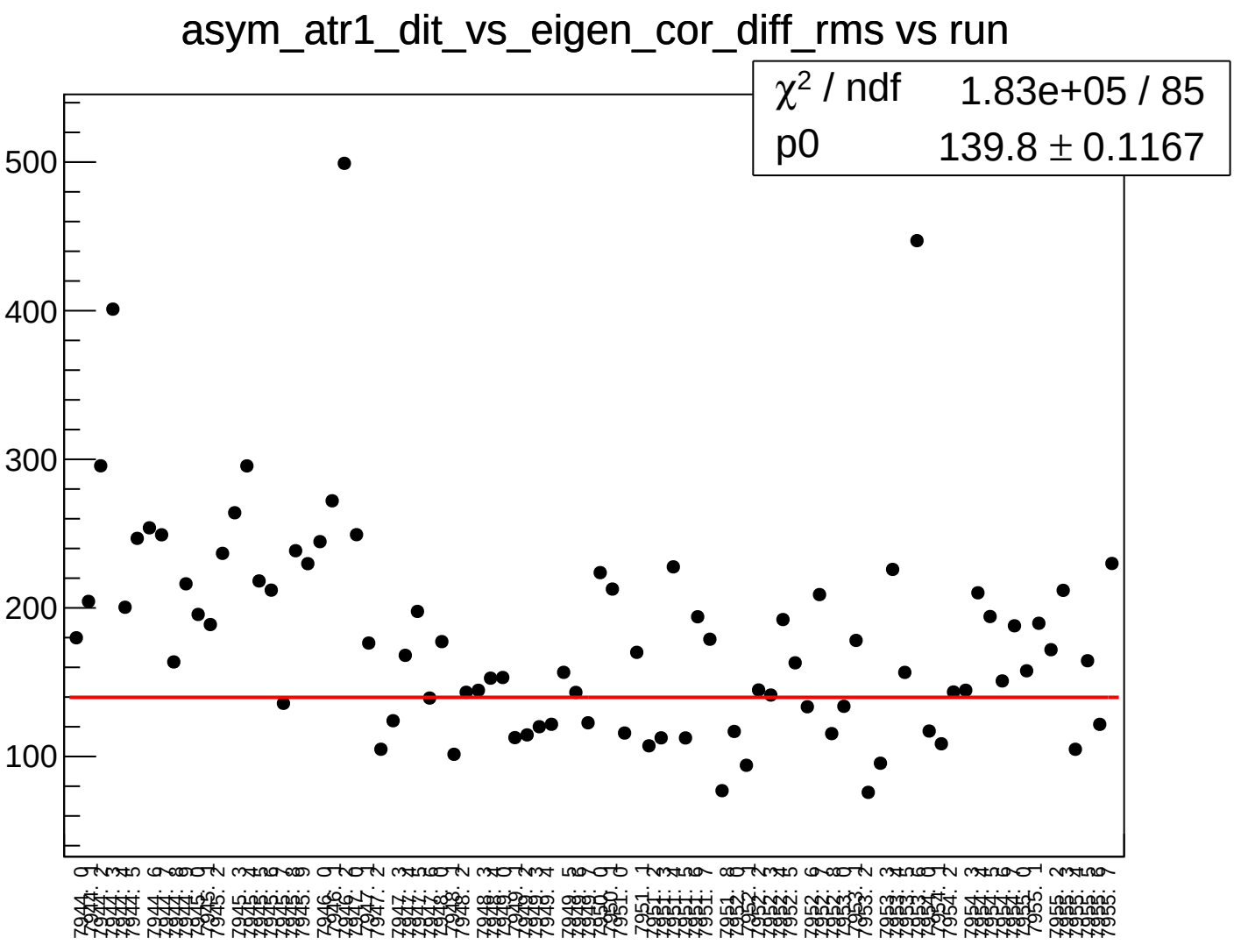

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 7.512e+05 / 85
p0 1.667e−10 ± 1.789e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

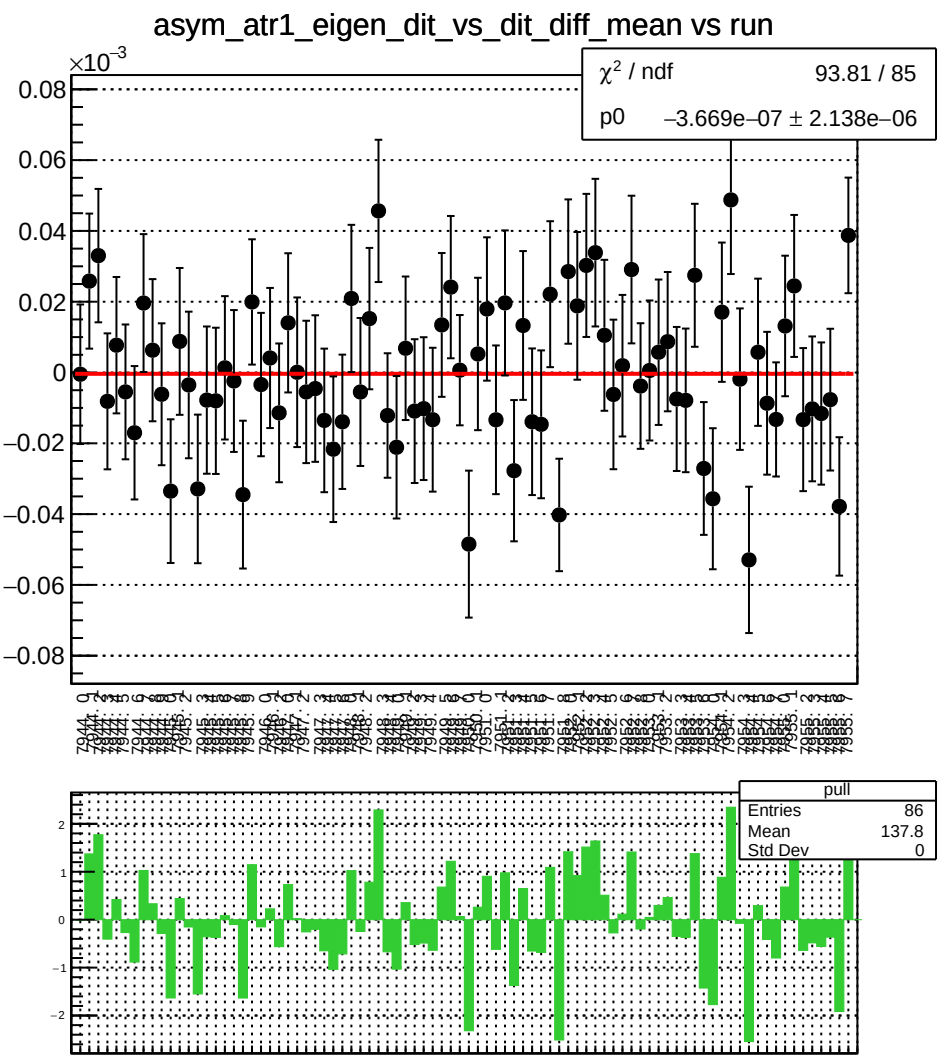

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 89.07 / 85
p0 0.2571 ± 0.165
pull
Entries 86
Mean 19.74
Std Dev 15.62

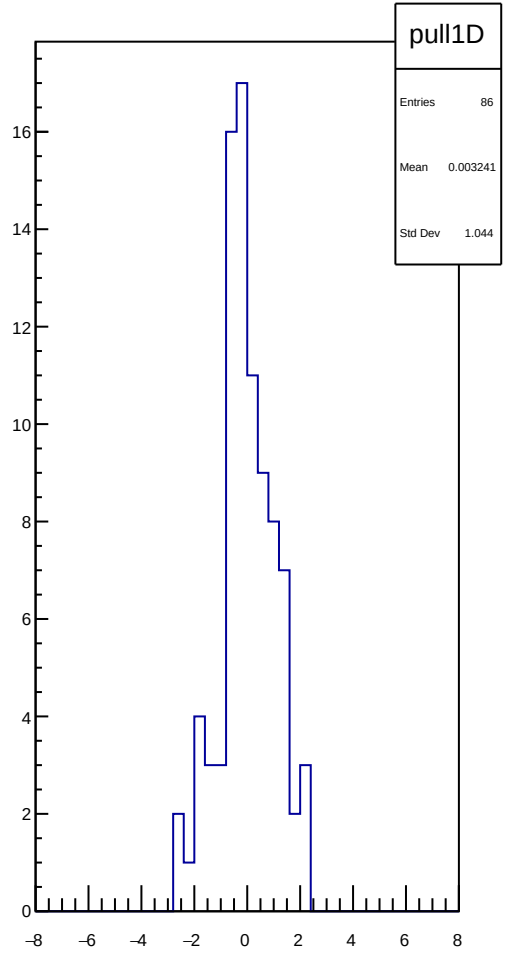

pull1D
Entries 86
Mean 0.1102
Std Dev 1.012

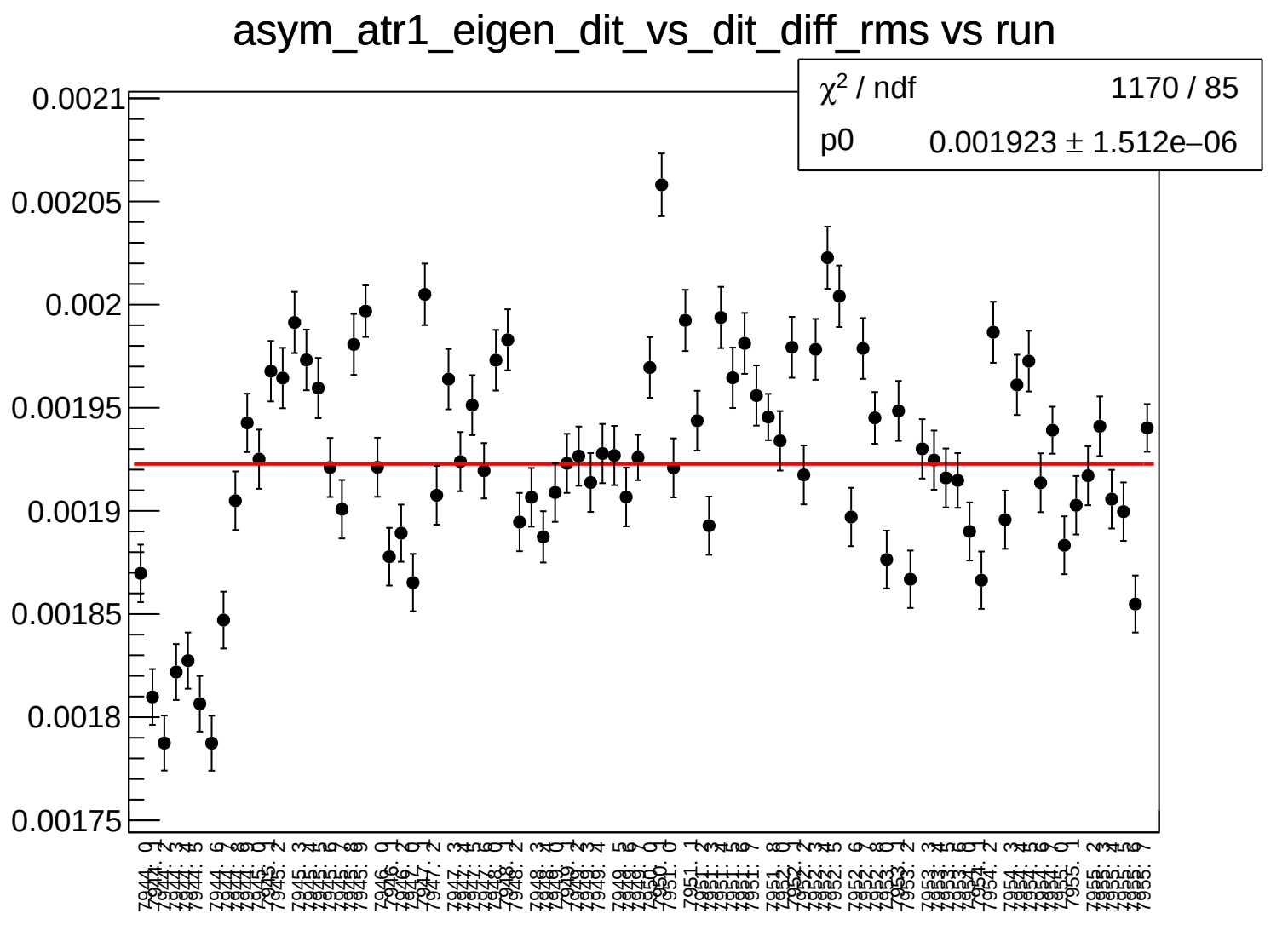

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.83e+05 / 85
p0 139.8 ± 0.1167
500
400
300
200
100

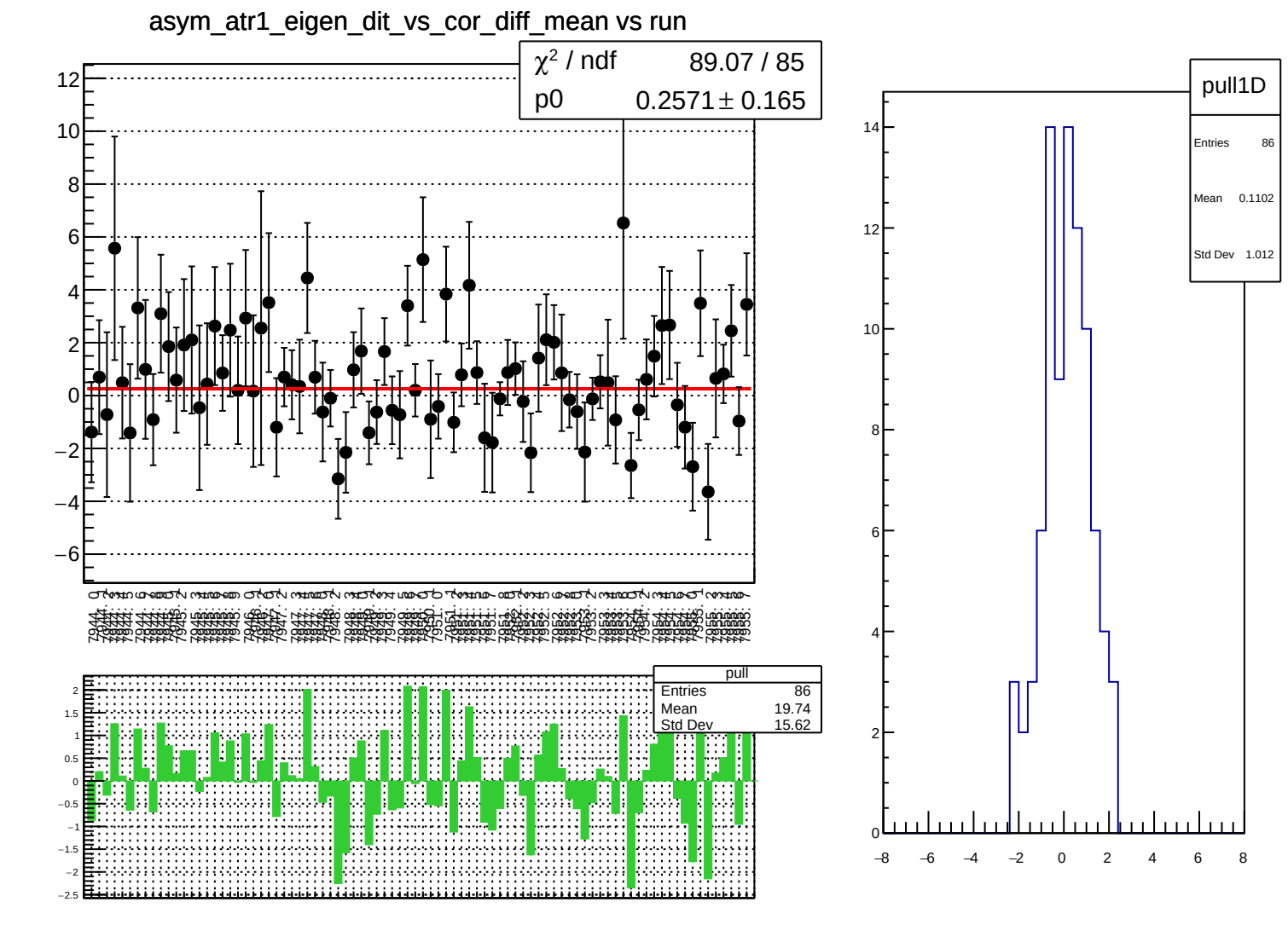

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.07 / 85
p0 0.2571 ± 0.165
pull
Entries 86
Mean 19.74
Std Dev 15.62
pull1D
Entries 86
Mean 0.1102
Std Dev 1.012

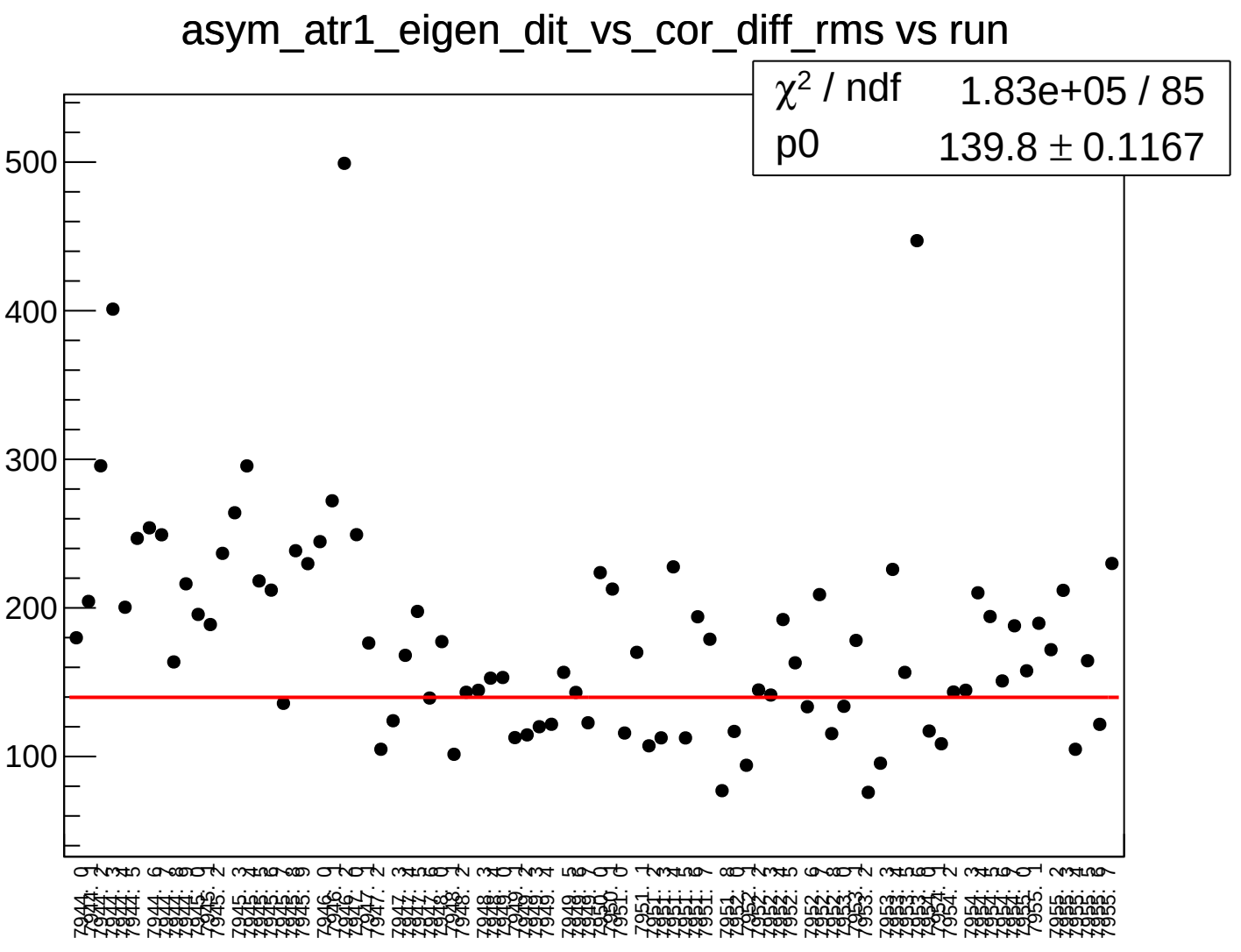

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.83e+05 / 85
p0 139.8 ± 0.1167
500
400
300
200
100

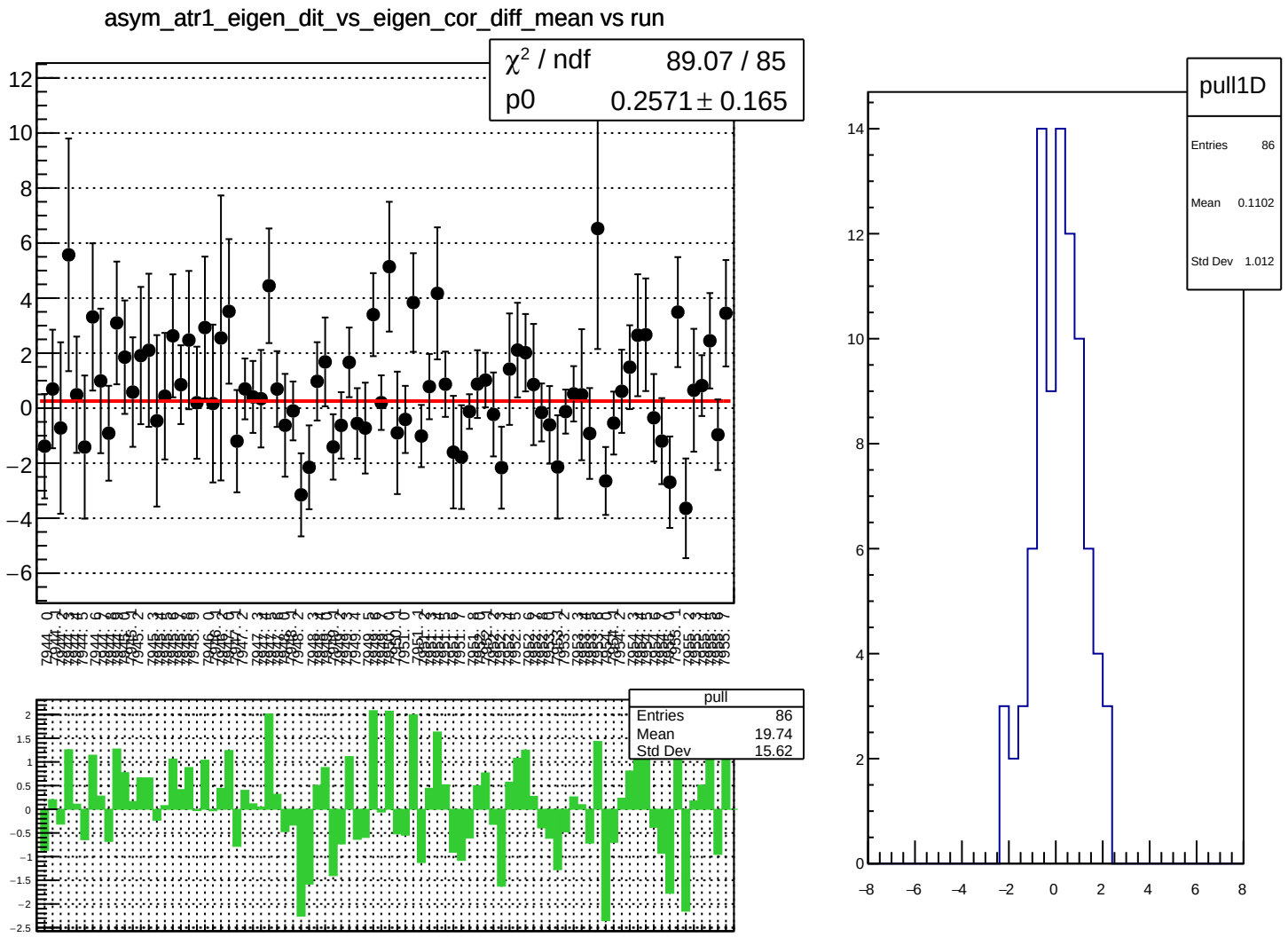

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.81 / 85
p0 −3.669e−07 ± 2.138e−06
pull
Entries 86
Mean 137.8
Std Dev 0

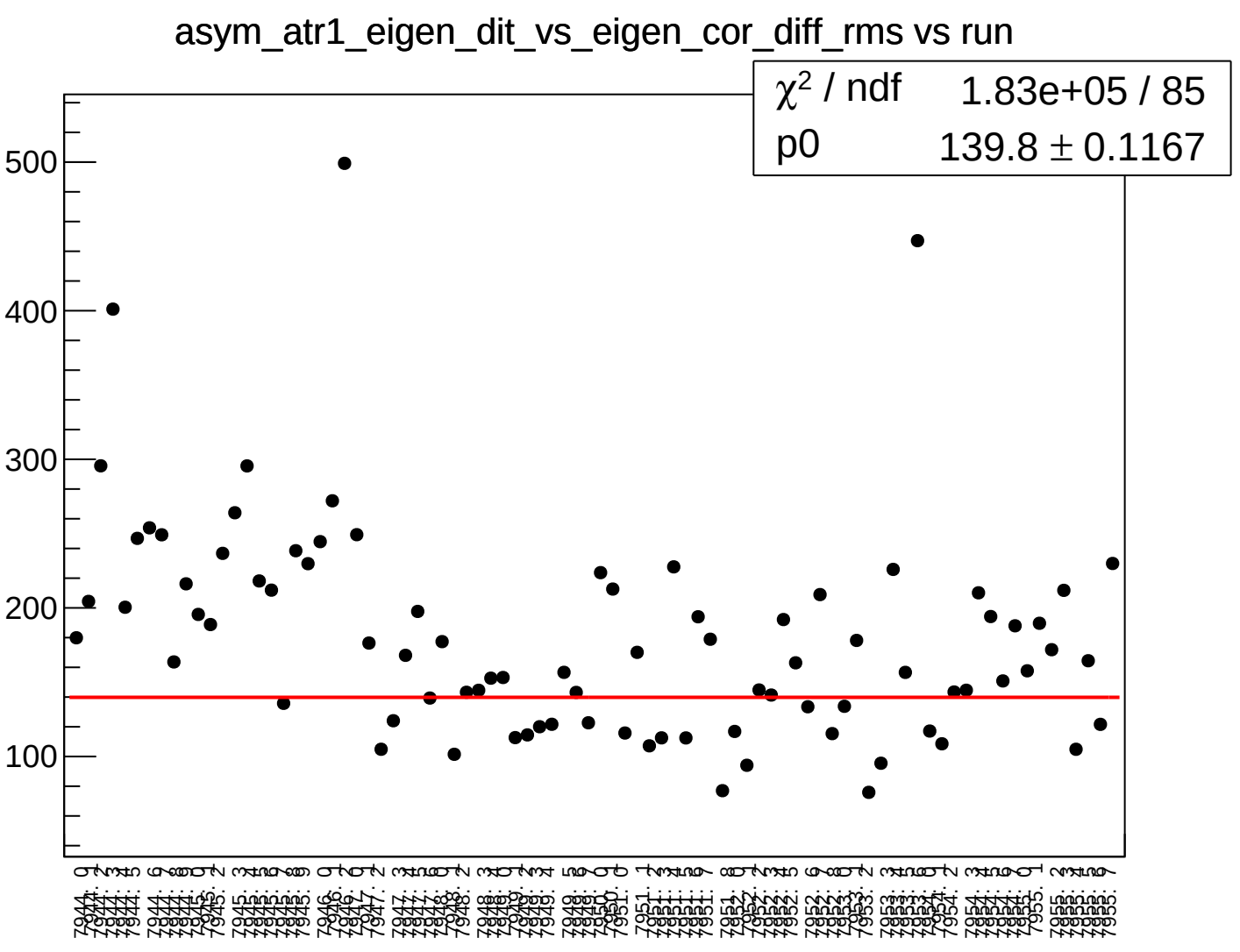

pull1D
Entries 86
Mean 0.003241
Std Dev 1.044

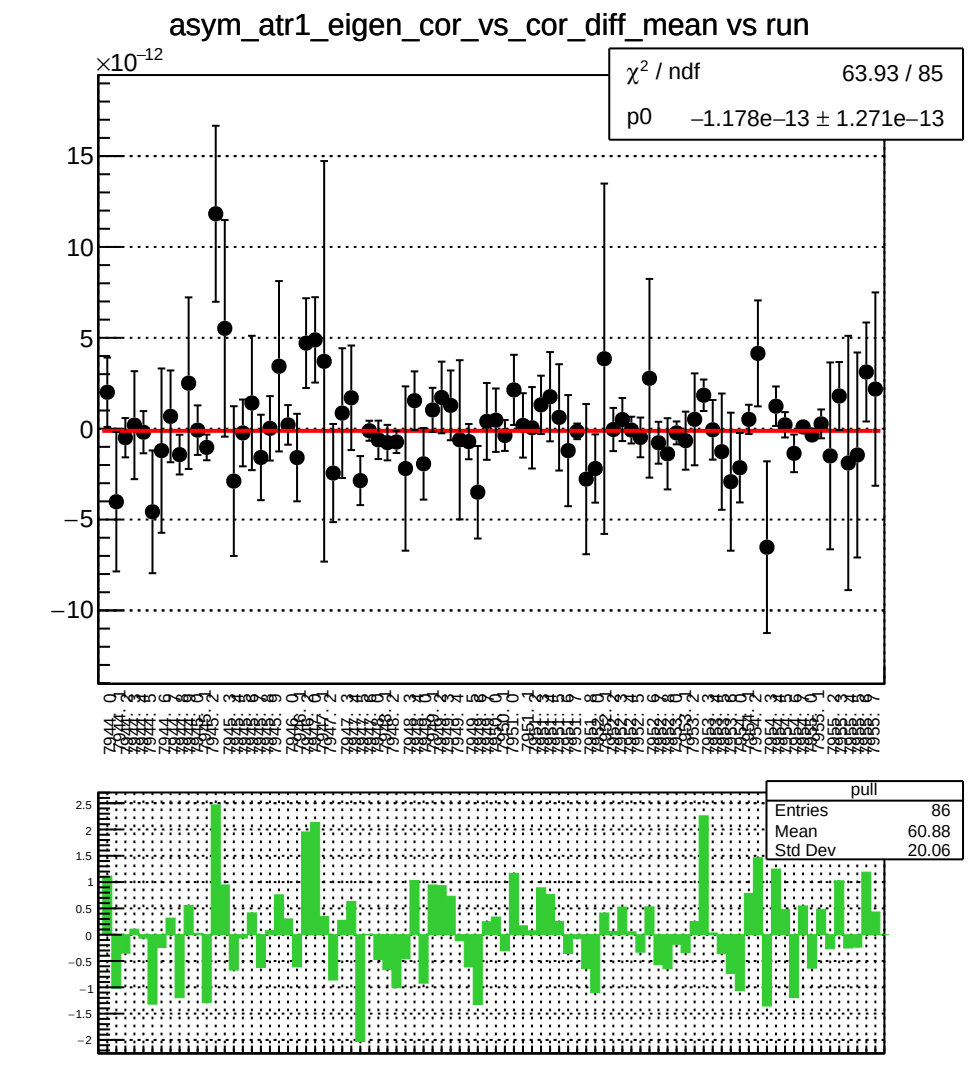

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1170 / 85
p0 0.001923 ± 1.512e−06
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175

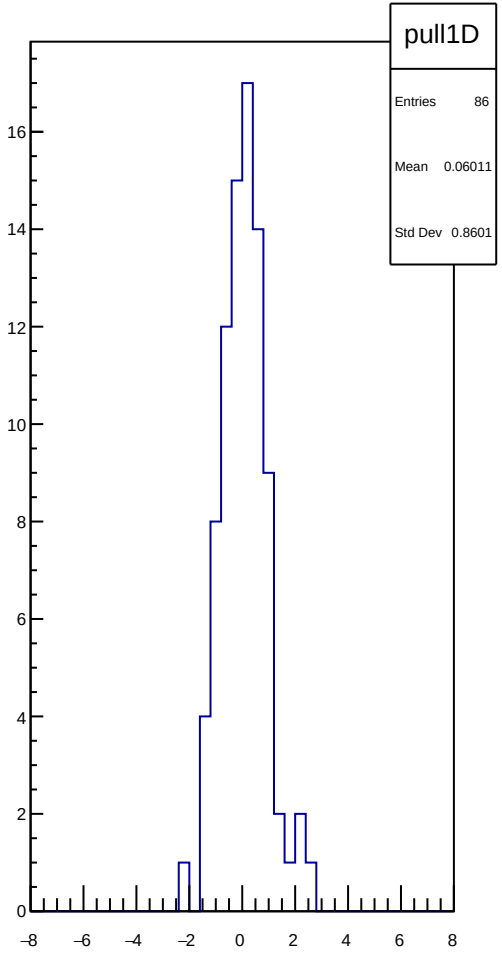

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.07 / 85
p0 0.2571 ± 0.165
pull
Entries 86
Mean 19.74
Std Dev 15.62
pull1D
Entries 86
Mean 0.1102
Std Dev 1.012

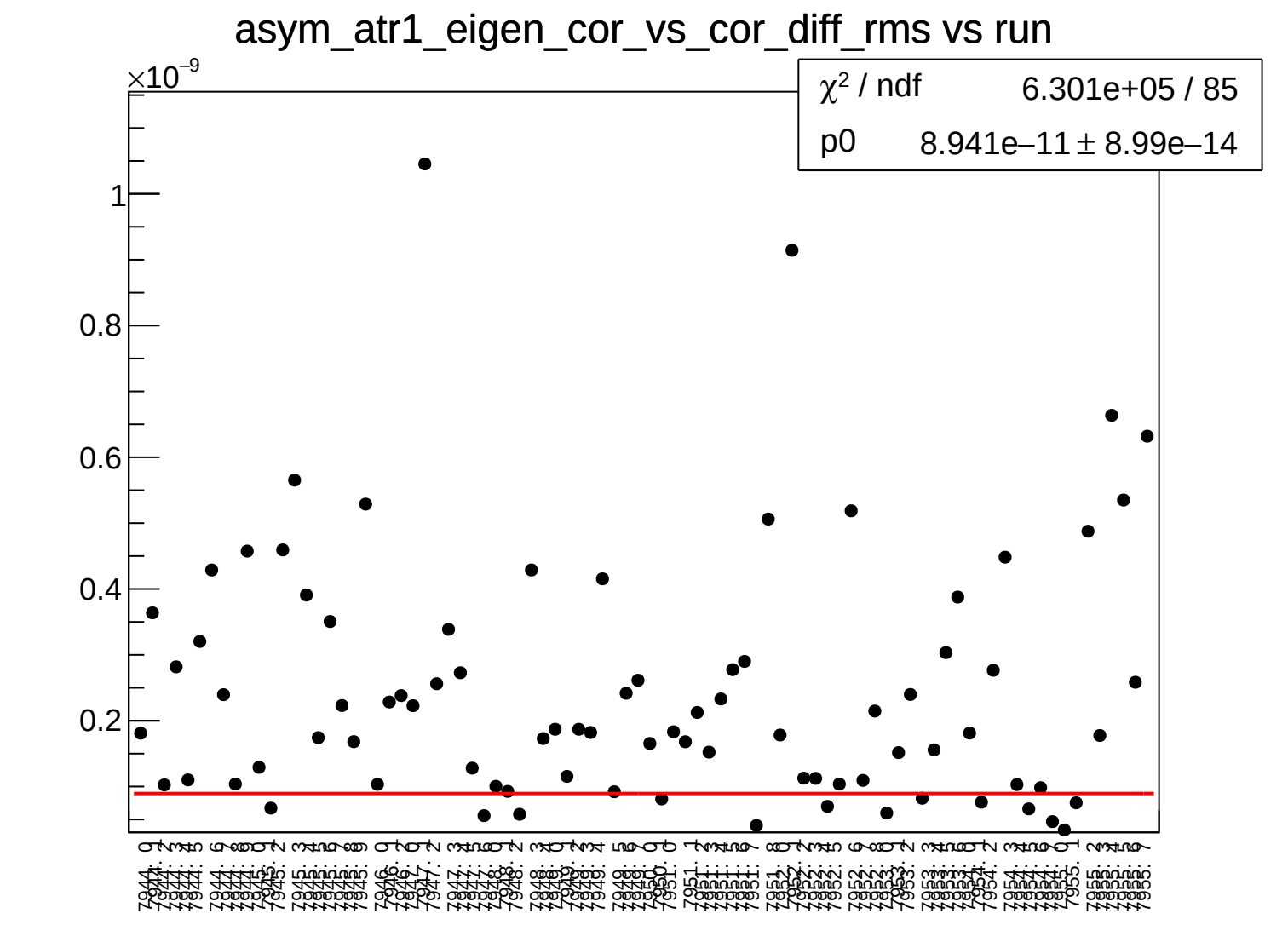

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.83e+05 / 85
p0 139.8 ± 0.1167
500
400
300
200
100

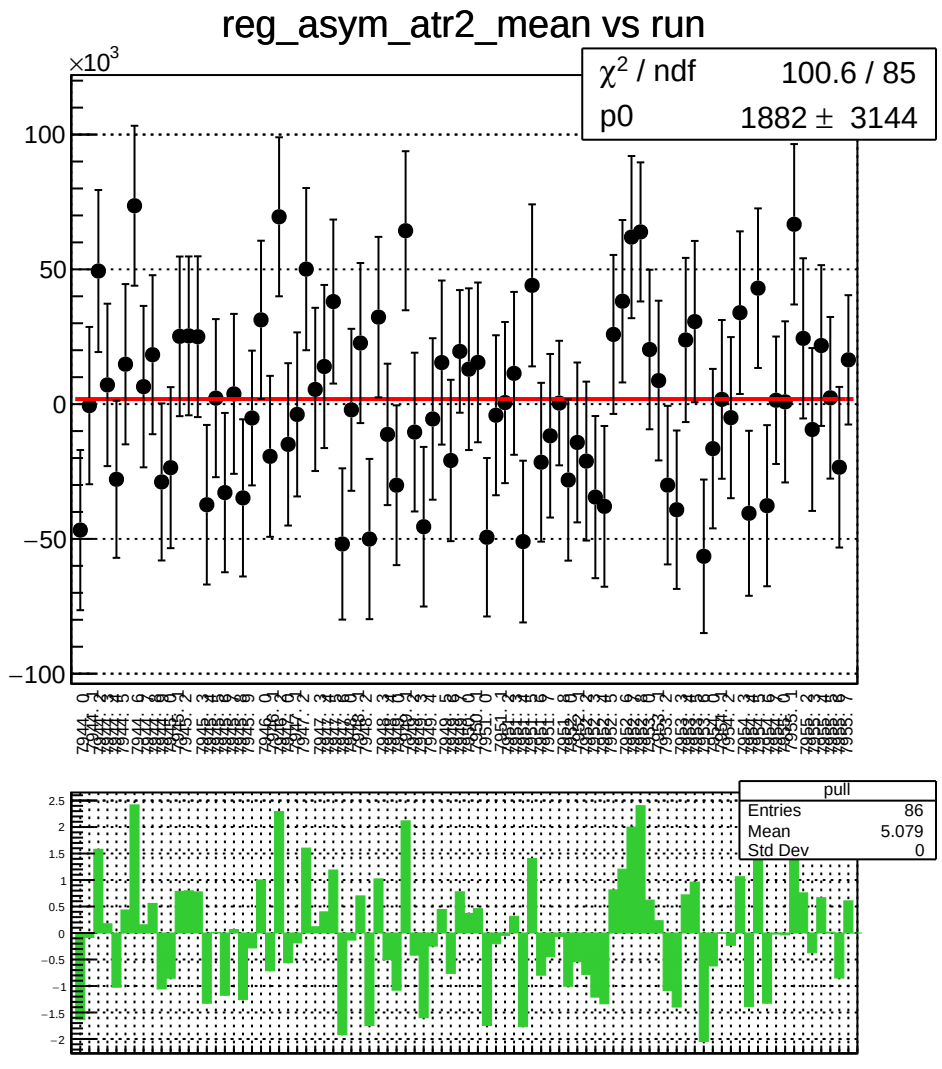

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.07 / 85
p0 0.2571 ± 0.165
pull
Entries 86
Mean 19.74
Std Dev 15.62
pull1D
Entries 86
Mean 0.1102
Std Dev 1.012

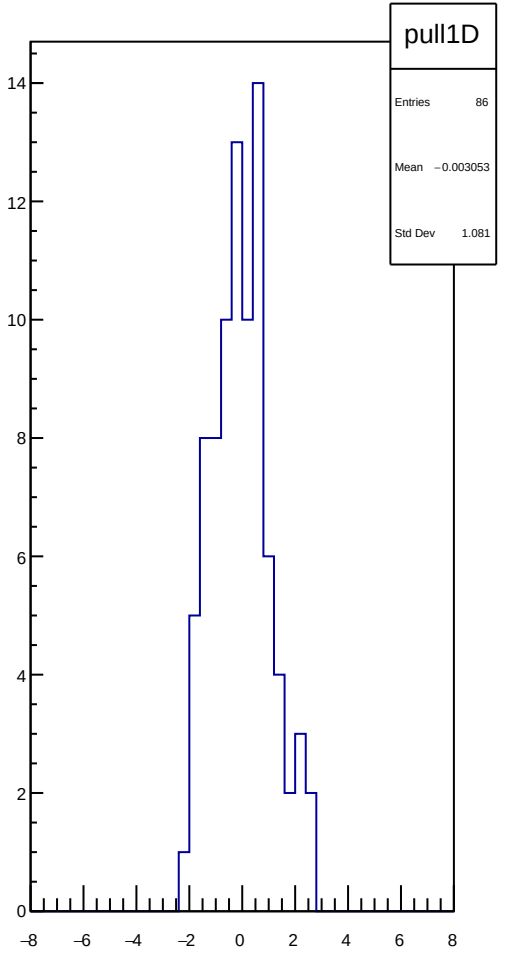

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.83e+05 / 85
p0 139.8 ± 0.1167
500
400
300
200
100

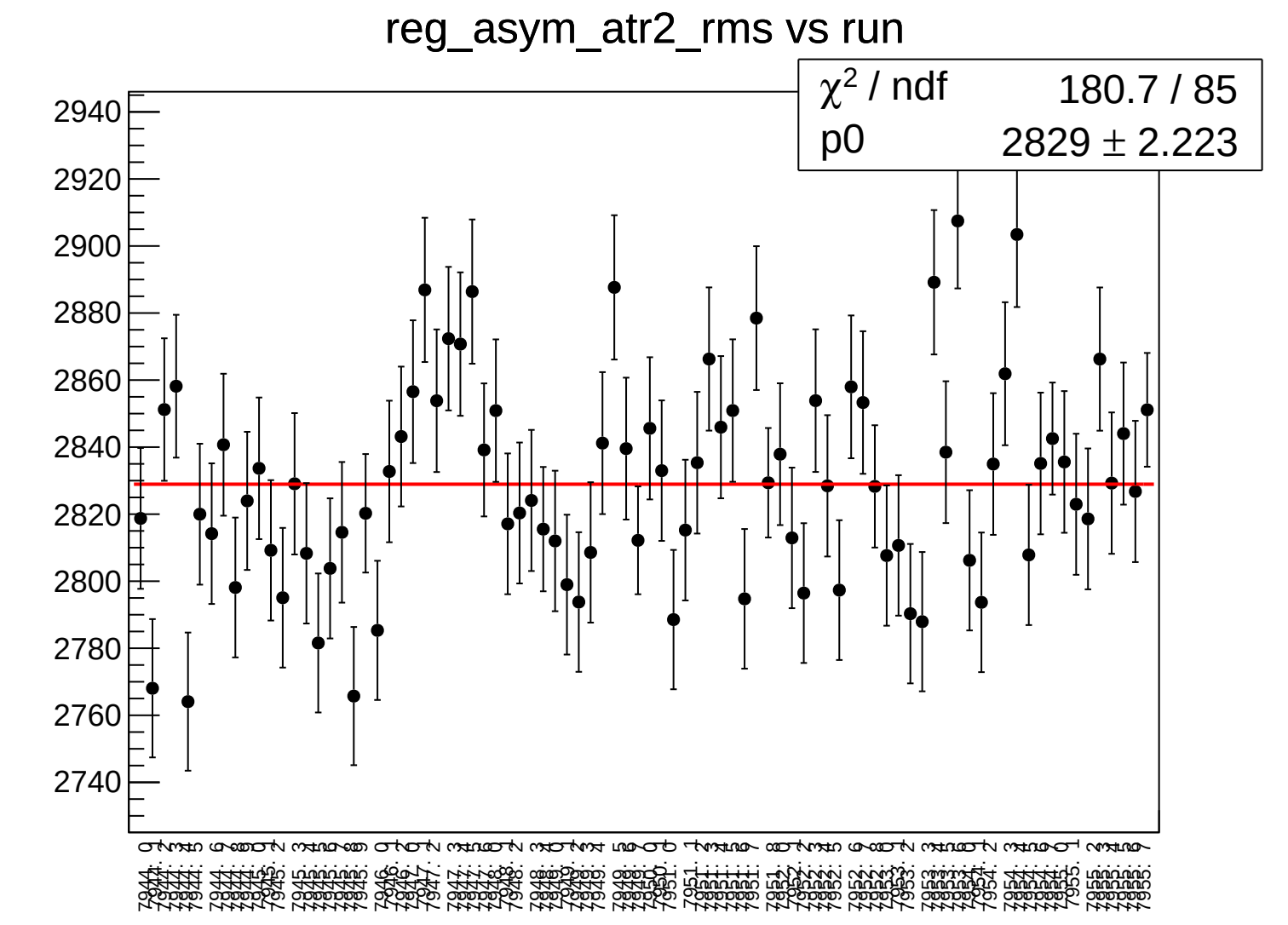

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.93 / 85
p0 −1.178e−13 ± 1.271e−13
pull
Entries 86
Mean 60.88
Std Dev 20.06

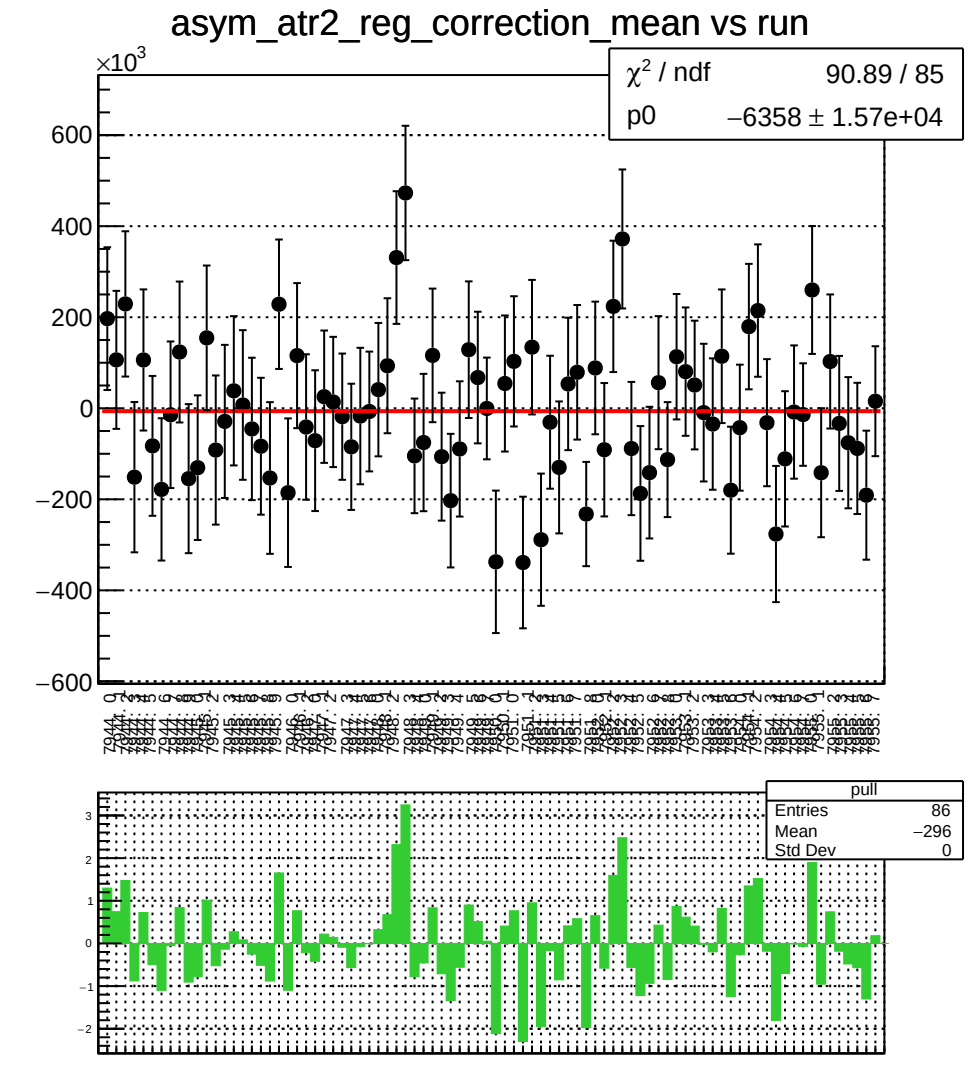

pull1D
Entries 86
Mean 0.06011
Std Dev 0.8601

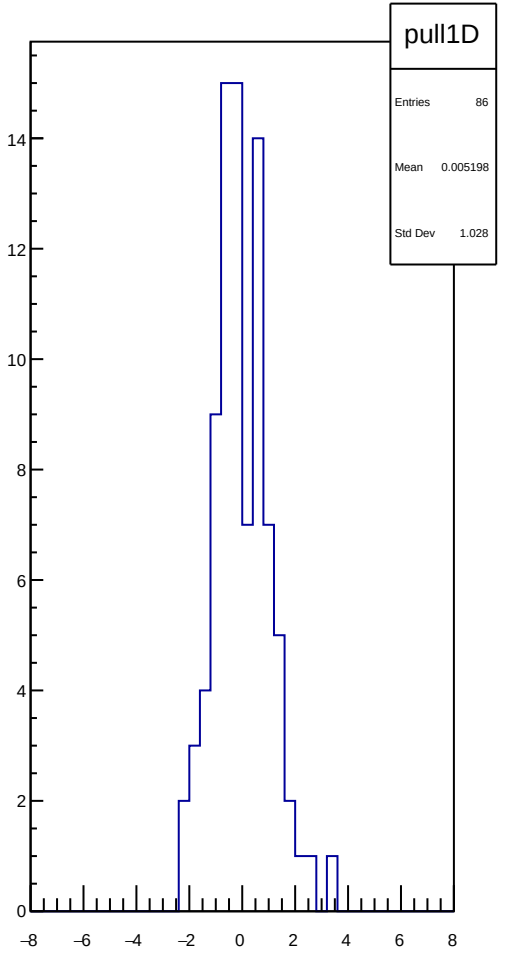

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.301e+05 / 85
p0 8.941e−11 ± 8.99e−14
1
0.8
0.6
0.4
0.2


reg_asym_atr2_mean vs run
×10^3
χ² / ndf 100.6 / 85
p0 1882 ± 3144
100
50
0
−50
−100
pull
Entries 86
Mean 5.079
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

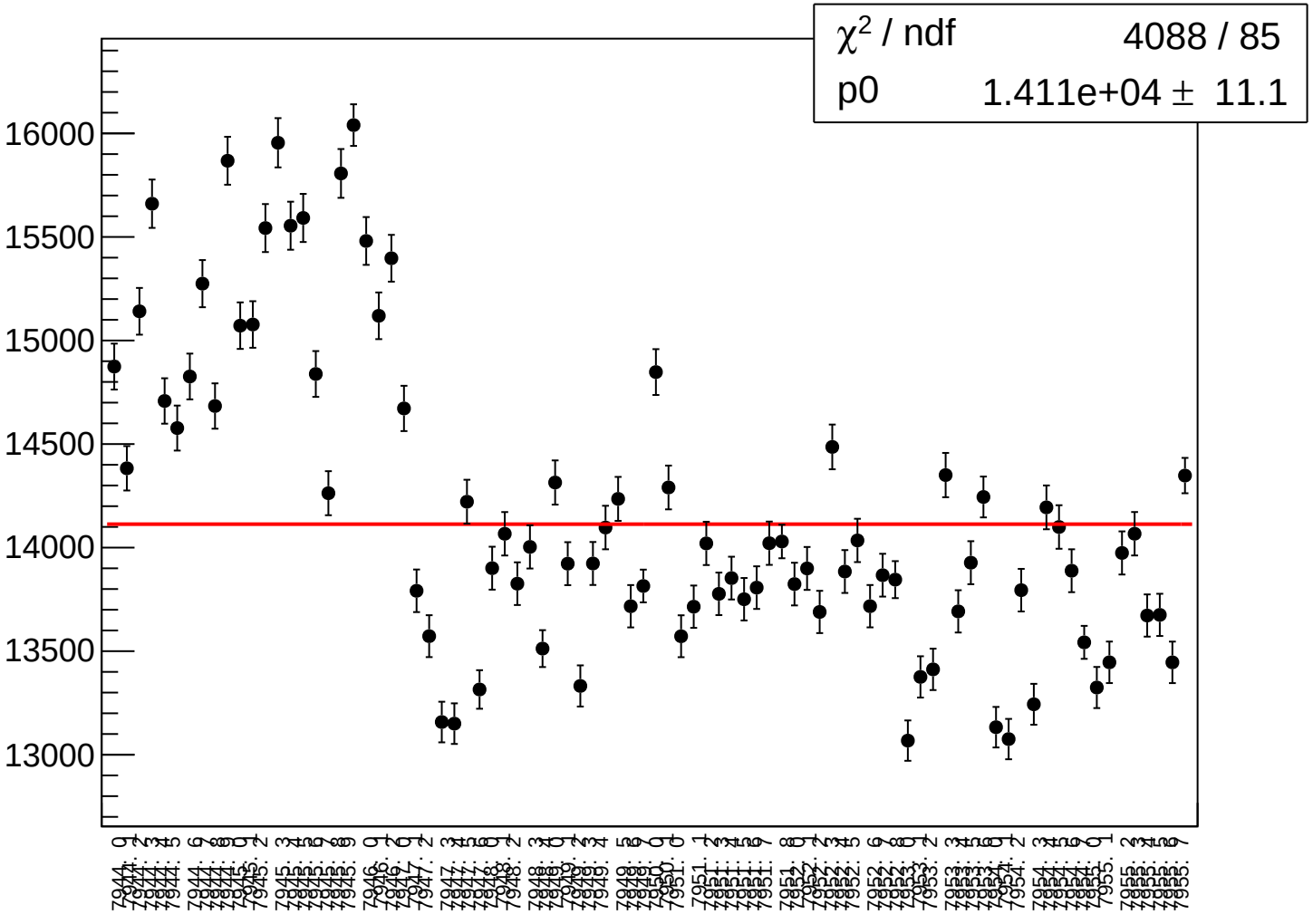

pull1D
Entries 86
Mean −0.003053
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

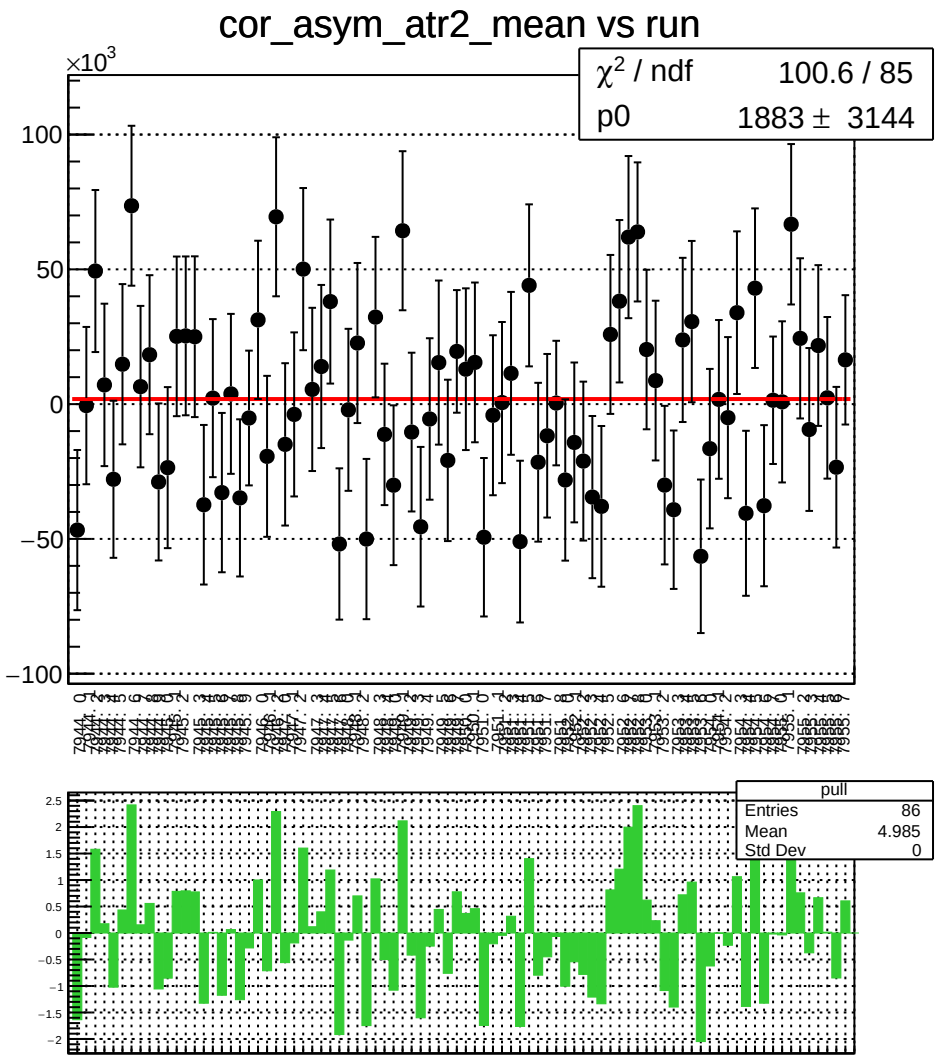

reg_asym_atr2_rms vs run
χ^2 / ndf 180.7 / 85
p0 2829 ± 2.223
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740

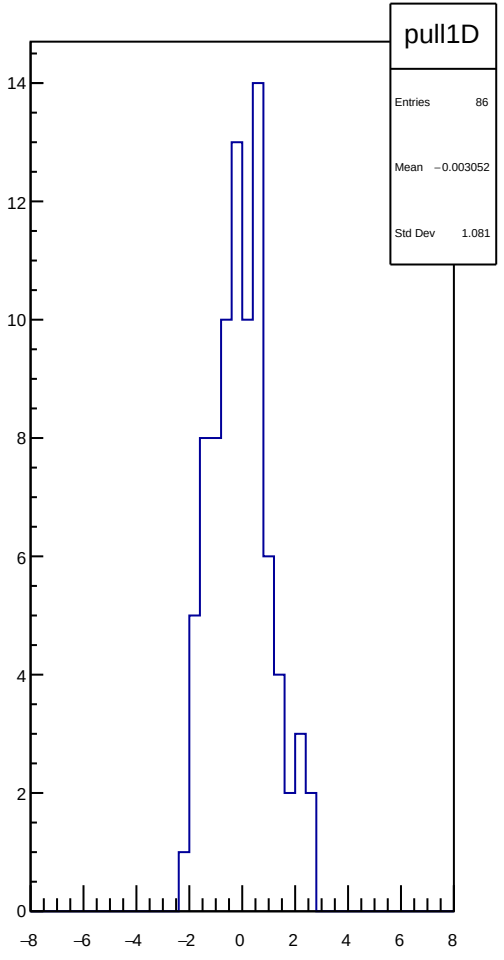

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 90.89 / 85
p0 −6358 ± 1.57e+04
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean −296
Std Dev 0
3
2
1
0
−1
−2

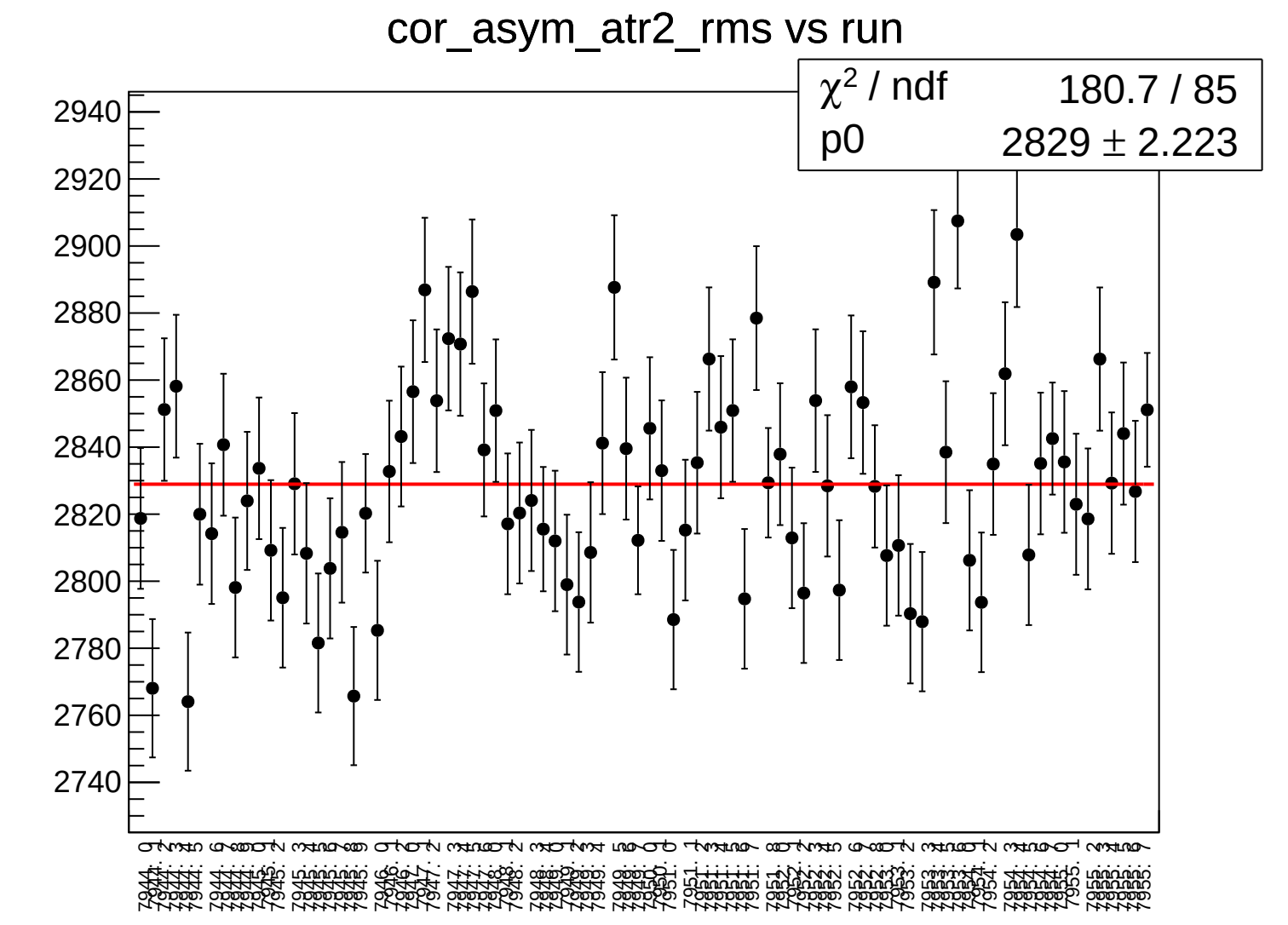

pull1D
Entries 86
Mean 0.005198
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

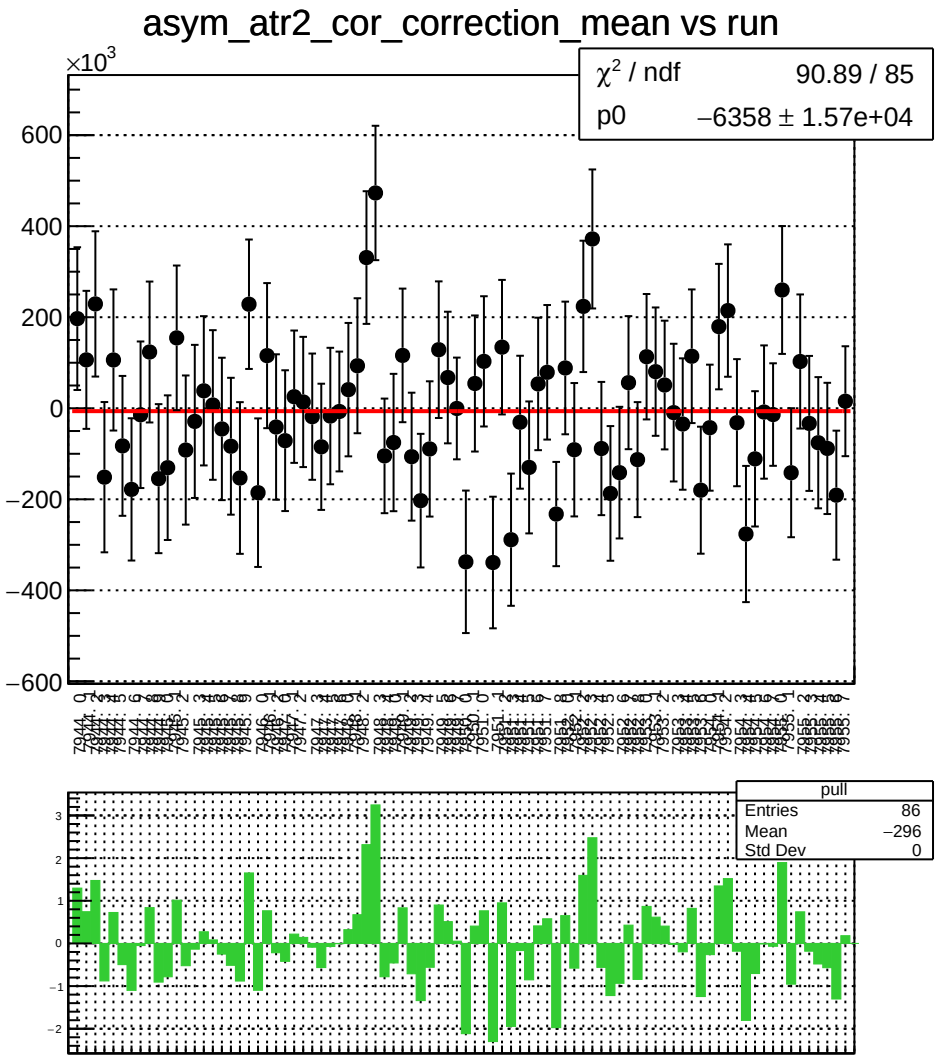
asym_atr2_reg_correction_rms vs run

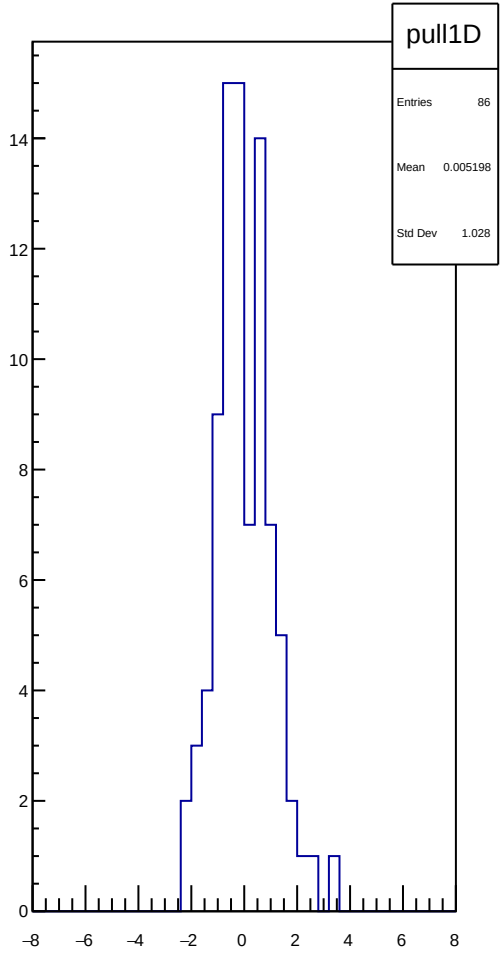


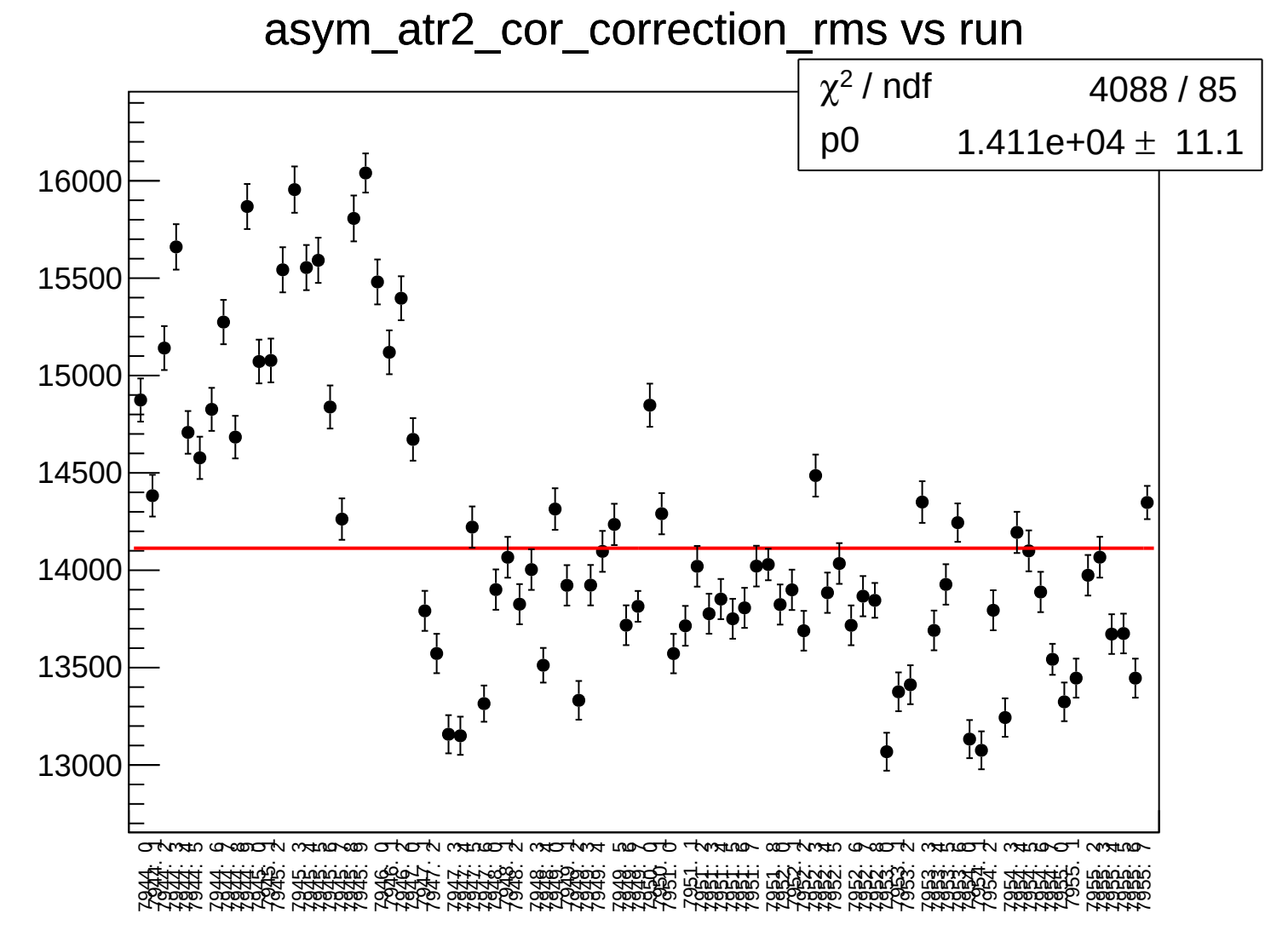

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 100.6 / 85
p0 1883 ± 3144
100
50
0
−50
−100
pull
Entries 86
Mean 4.985
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

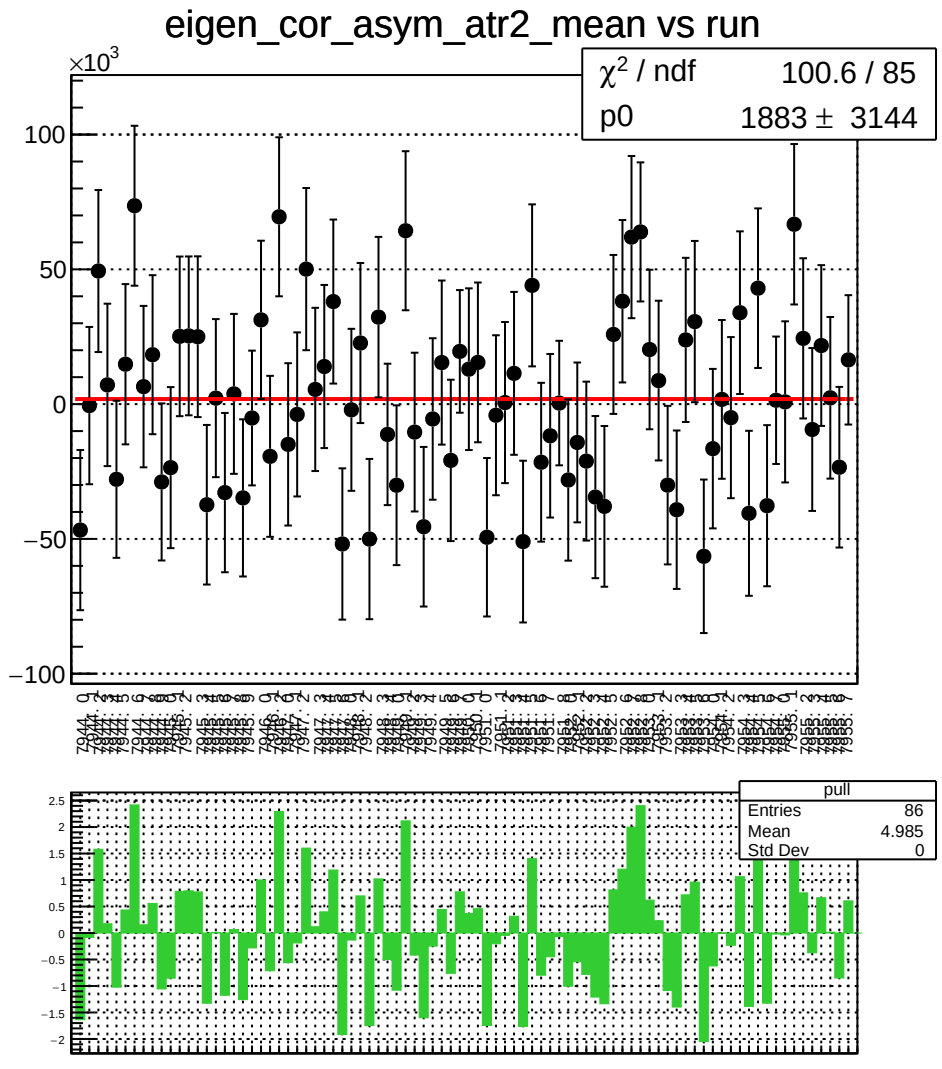

pull1D
Entries 86
Mean −0.003052
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

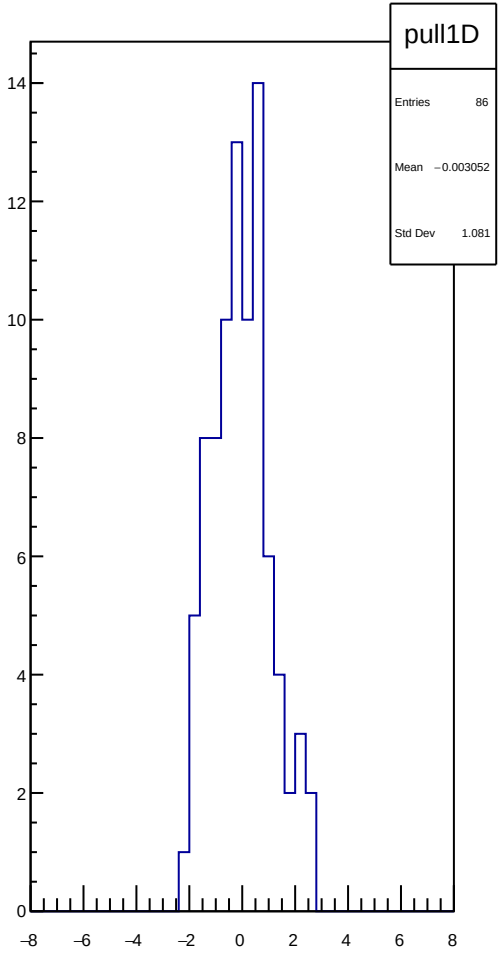

cor_asym_atr2_rms vs run
χ² / ndf 180.7 / 85
p0 2829 ± 2.223
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740

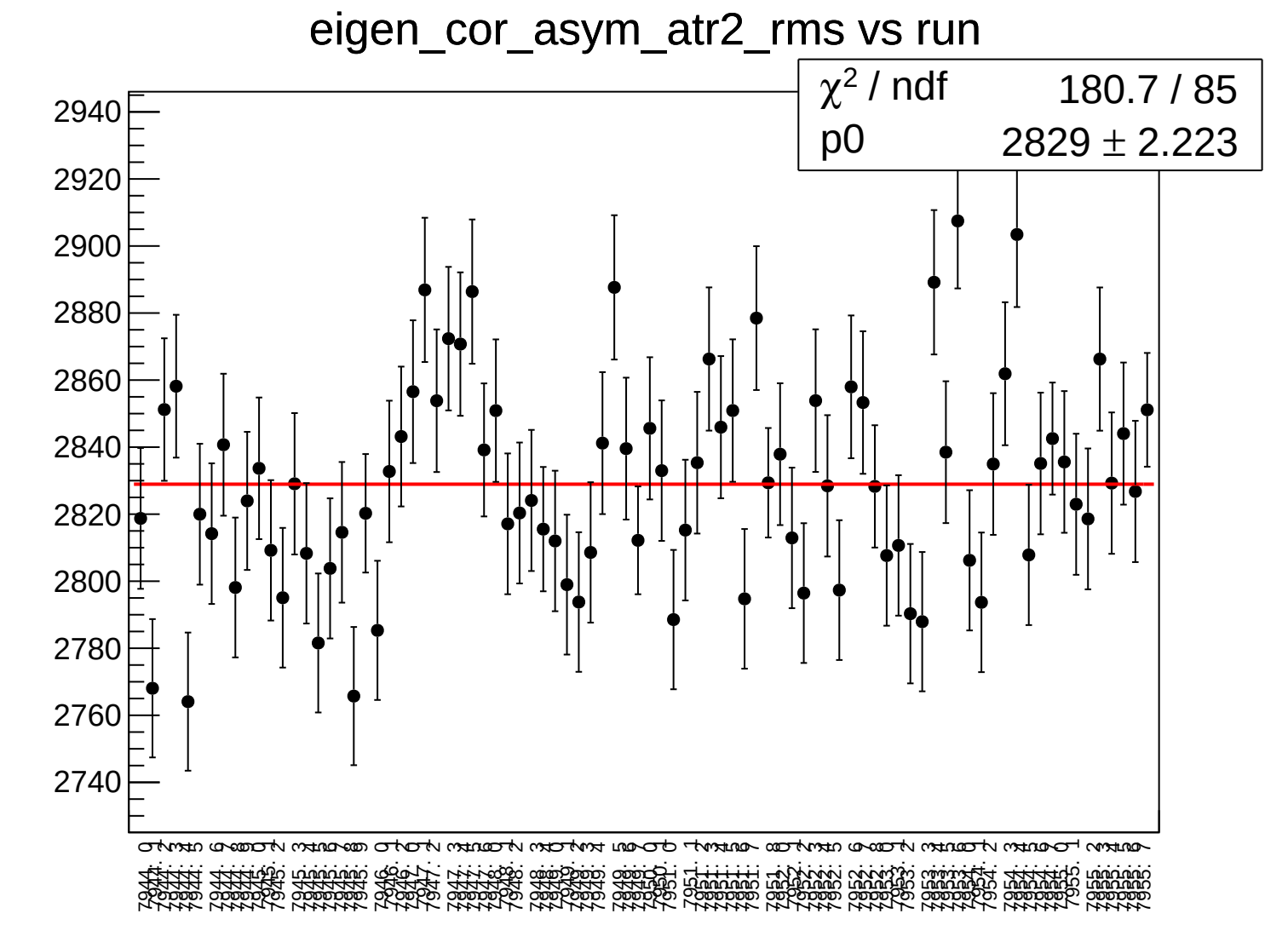

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 90.89 / 85
p0 −6358 ± 1.57e+04
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean −296
Std Dev 0
3
2
1
0
−1
−2

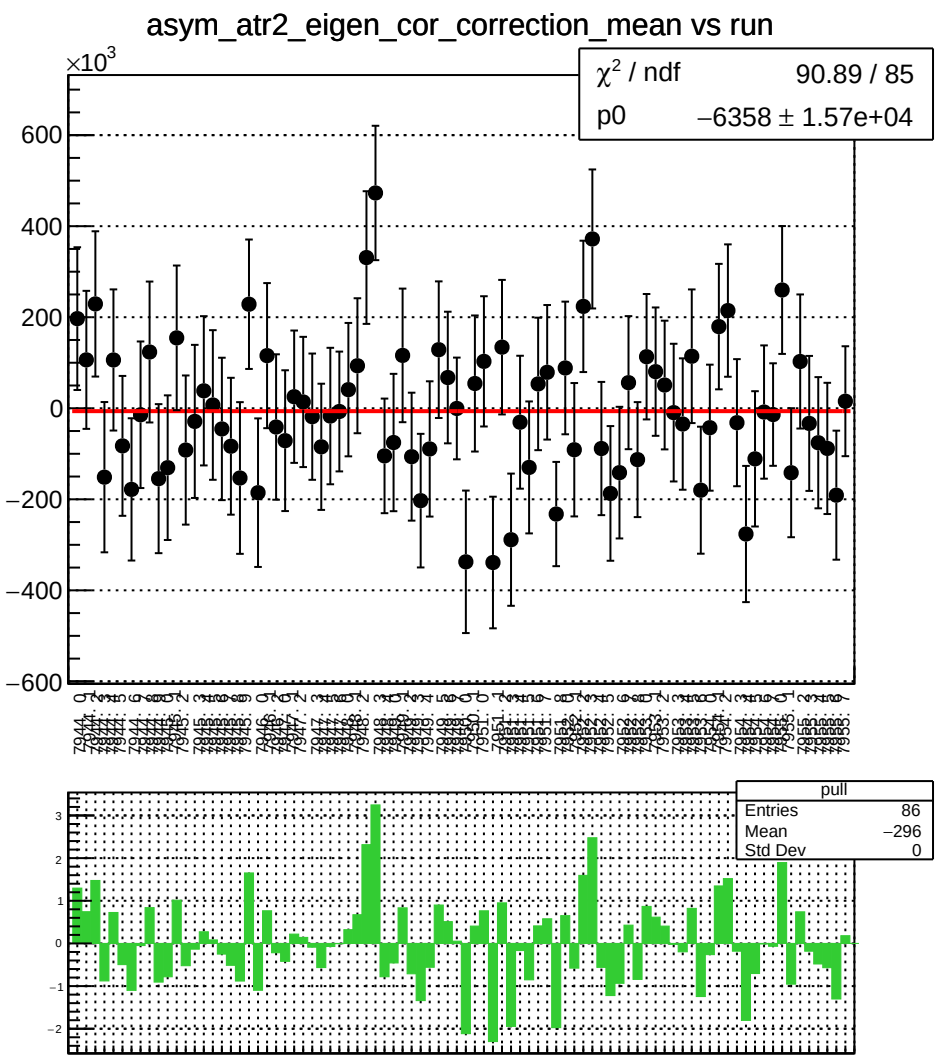

pull1D
Entries 86
Mean 0.005198
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

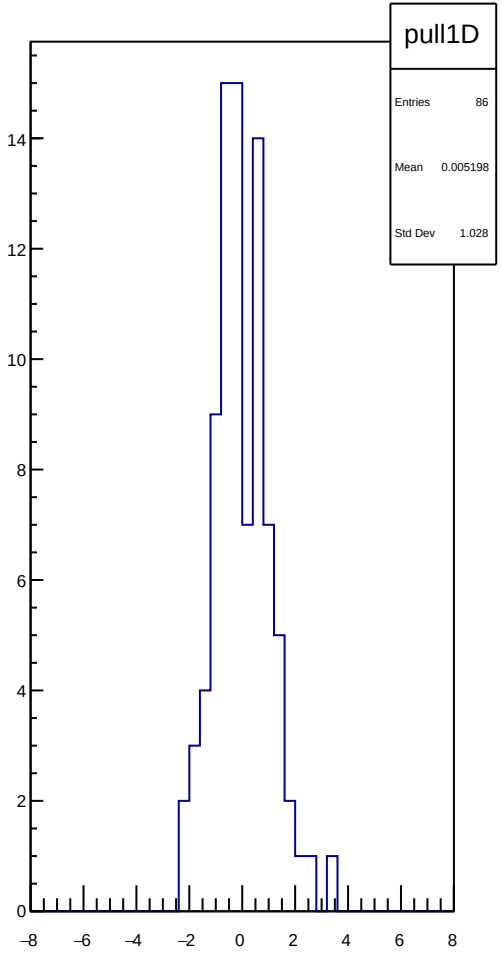

asym_atr2_cor_correction_rms vs run
χ² / ndf 4088 / 85
p0 1.411e+04 ± 11.1
16000
15500
15000
14500
14000
13500
13000


eigen_cor_asym_atr2_mean vs run
χ² / ndf 100.6 / 85
p0 1883 ± 3144
pull
Entries 86
Mean 4.985
Std Dev 0

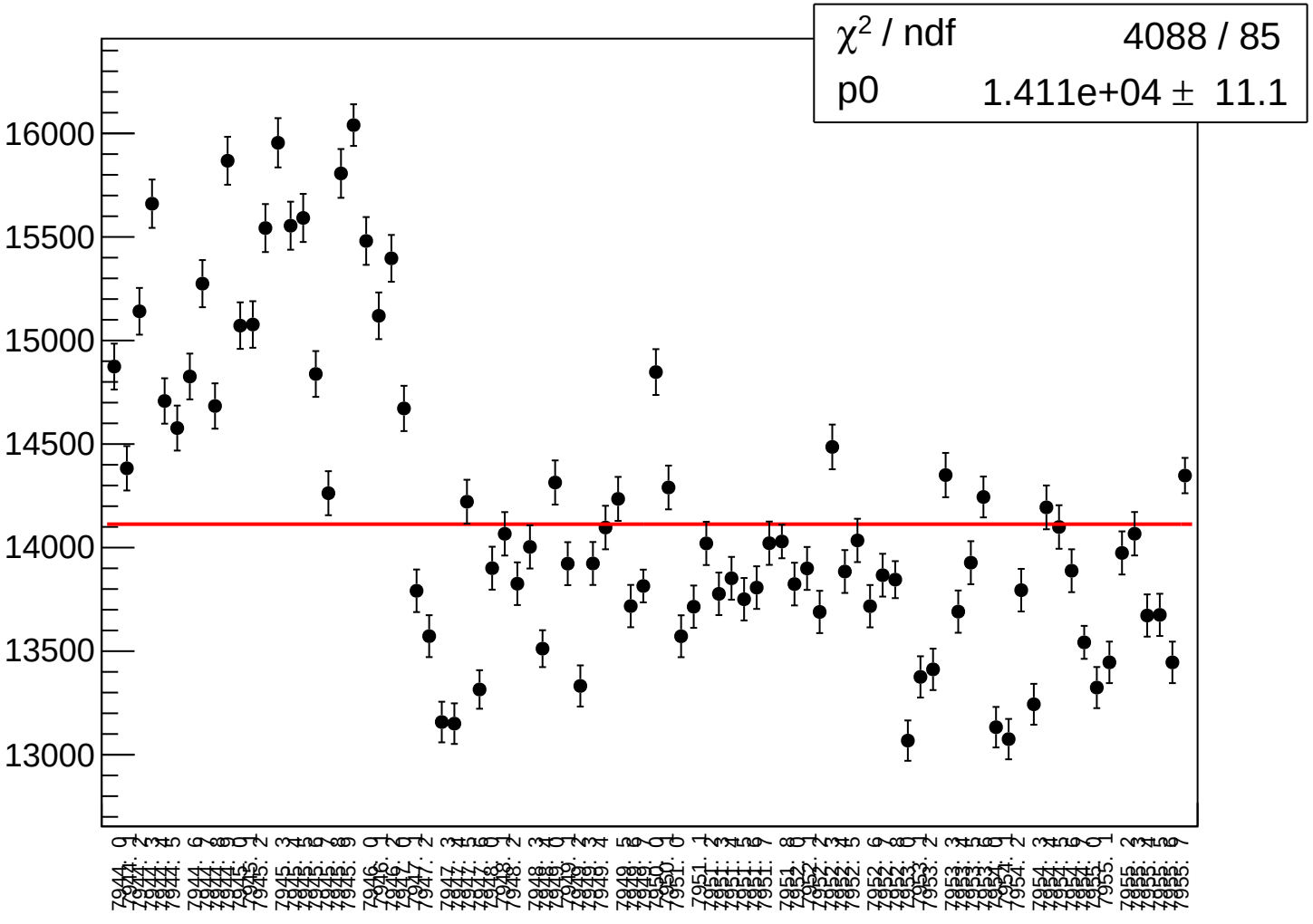

pull1D
Entries 86
Mean −0.003052
Std Dev 1.081

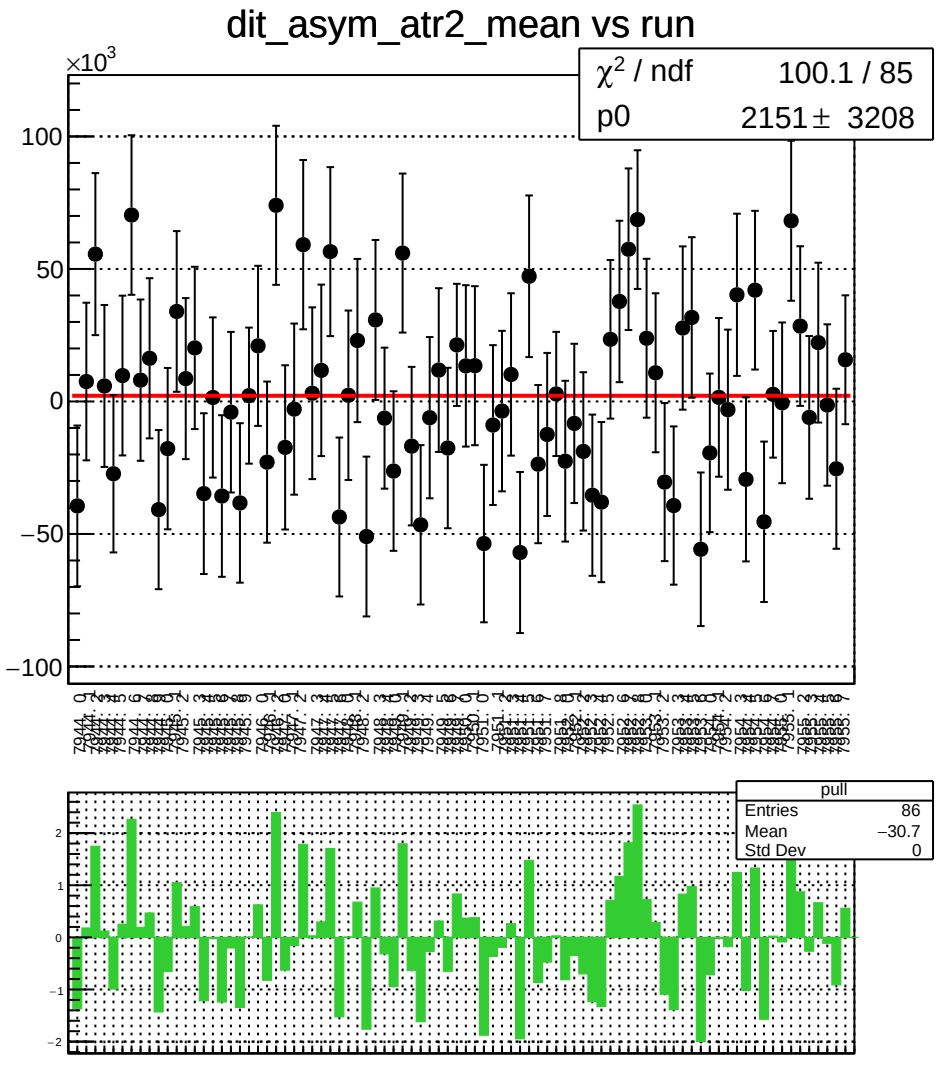

eigen_cor_asym_atr2_rms vs run
χ^2 / ndf 180.7 / 85
p0 2829 ± 2.223
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740

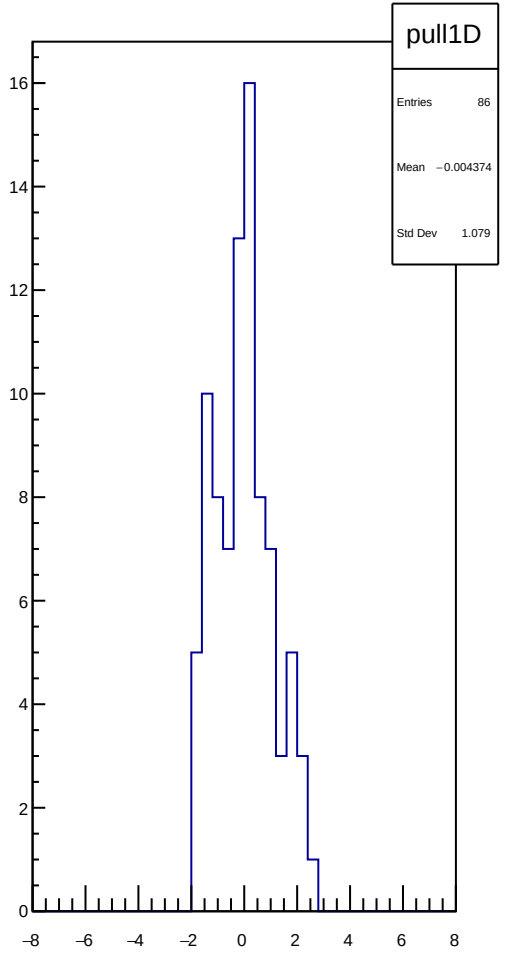

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.89 / 85
p0 −6358 ± 1.57e+04
pull
Entries 86
Mean −296
Std Dev 0

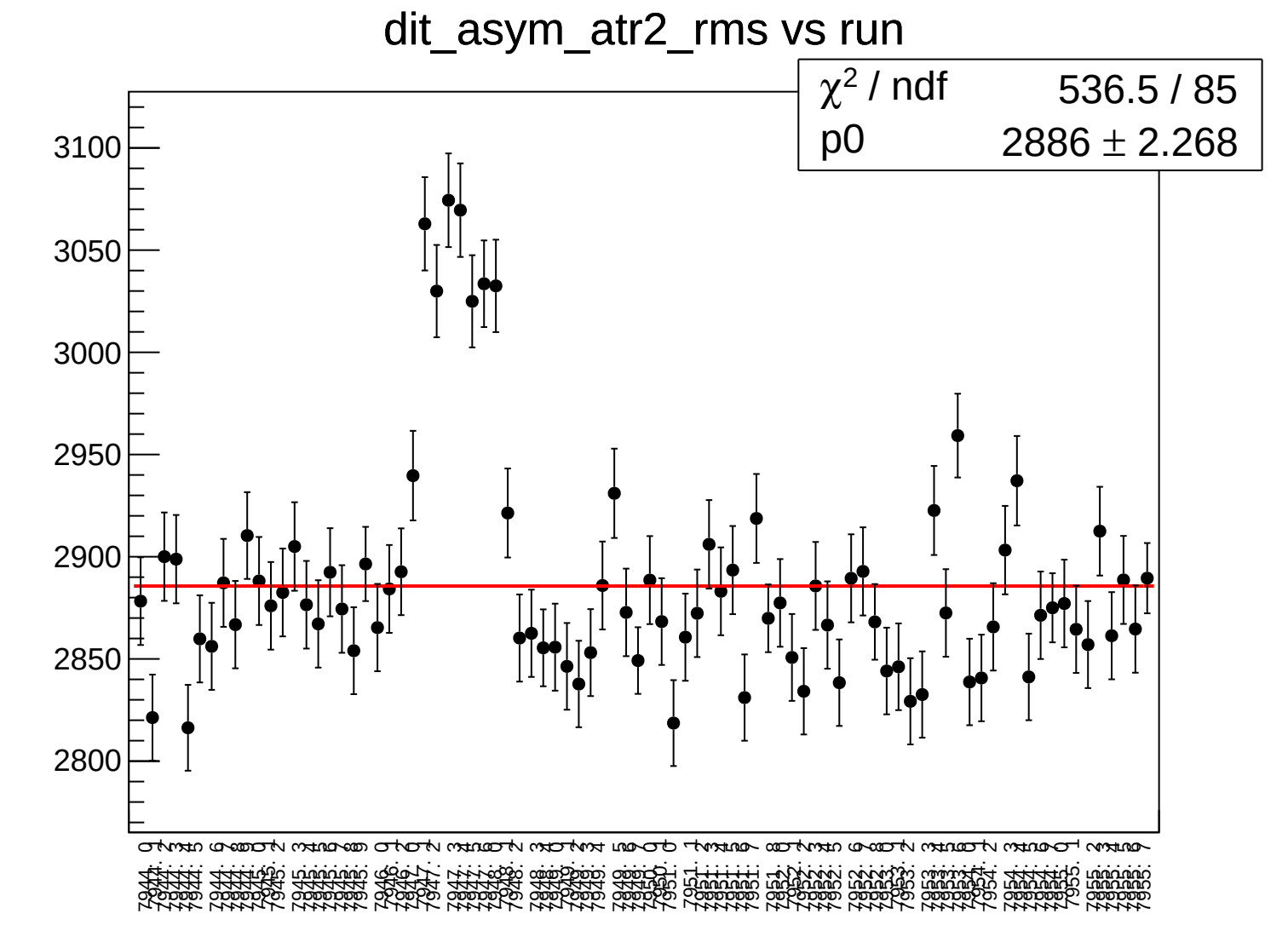

pull1D
Entries 86
Mean 0.005198
Std Dev 1.028

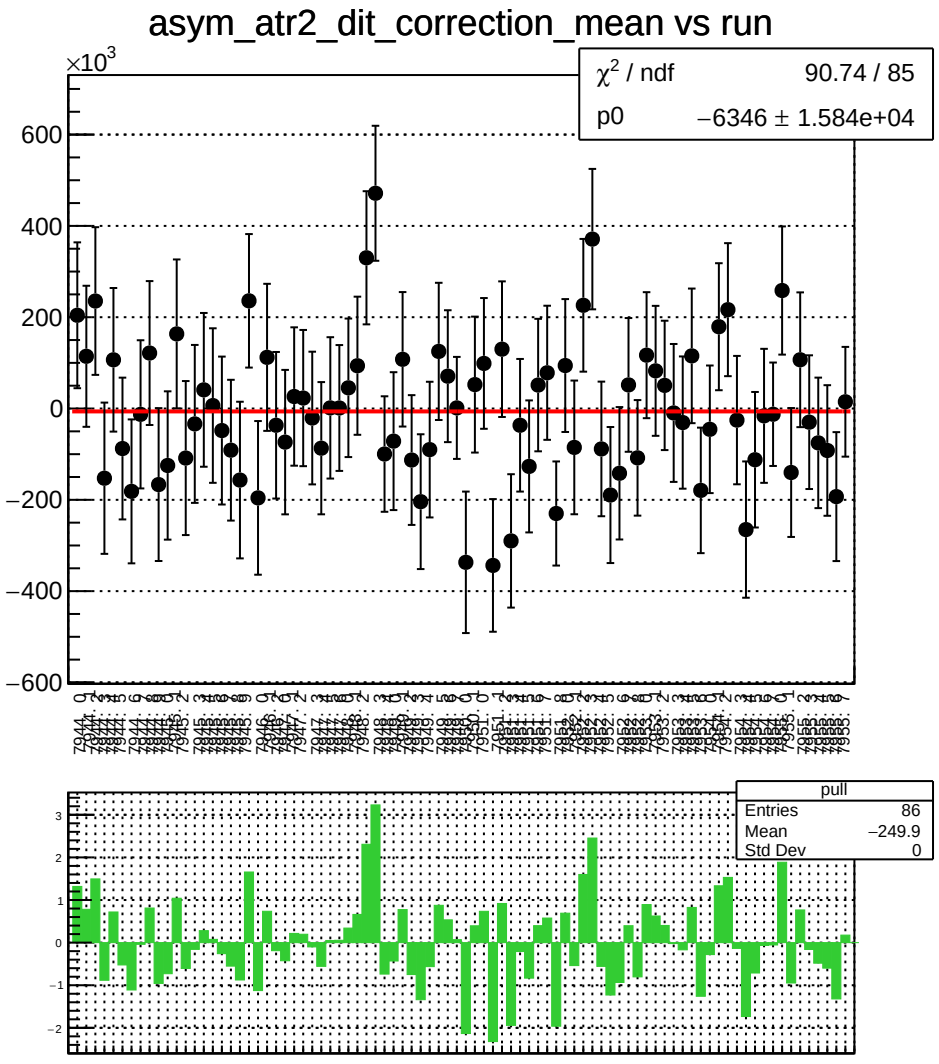
asym_atr2_eigen_cor_correction_rms vs run

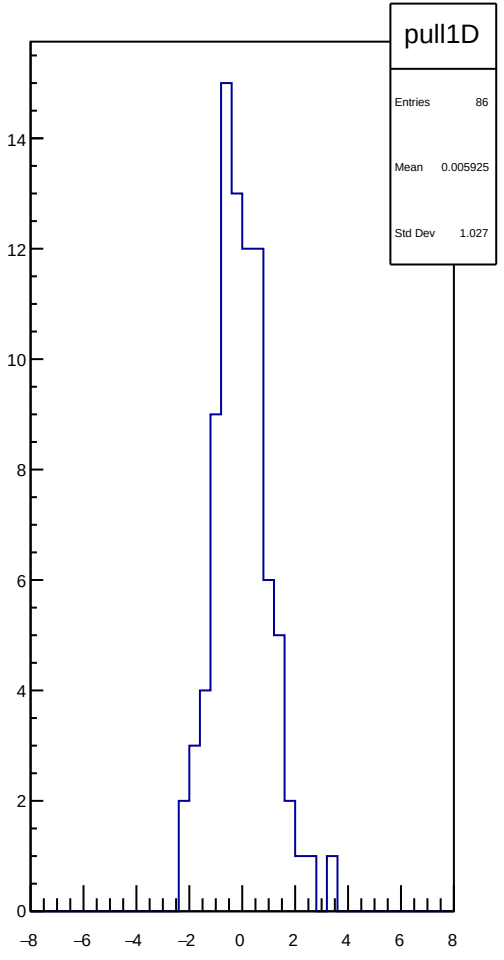


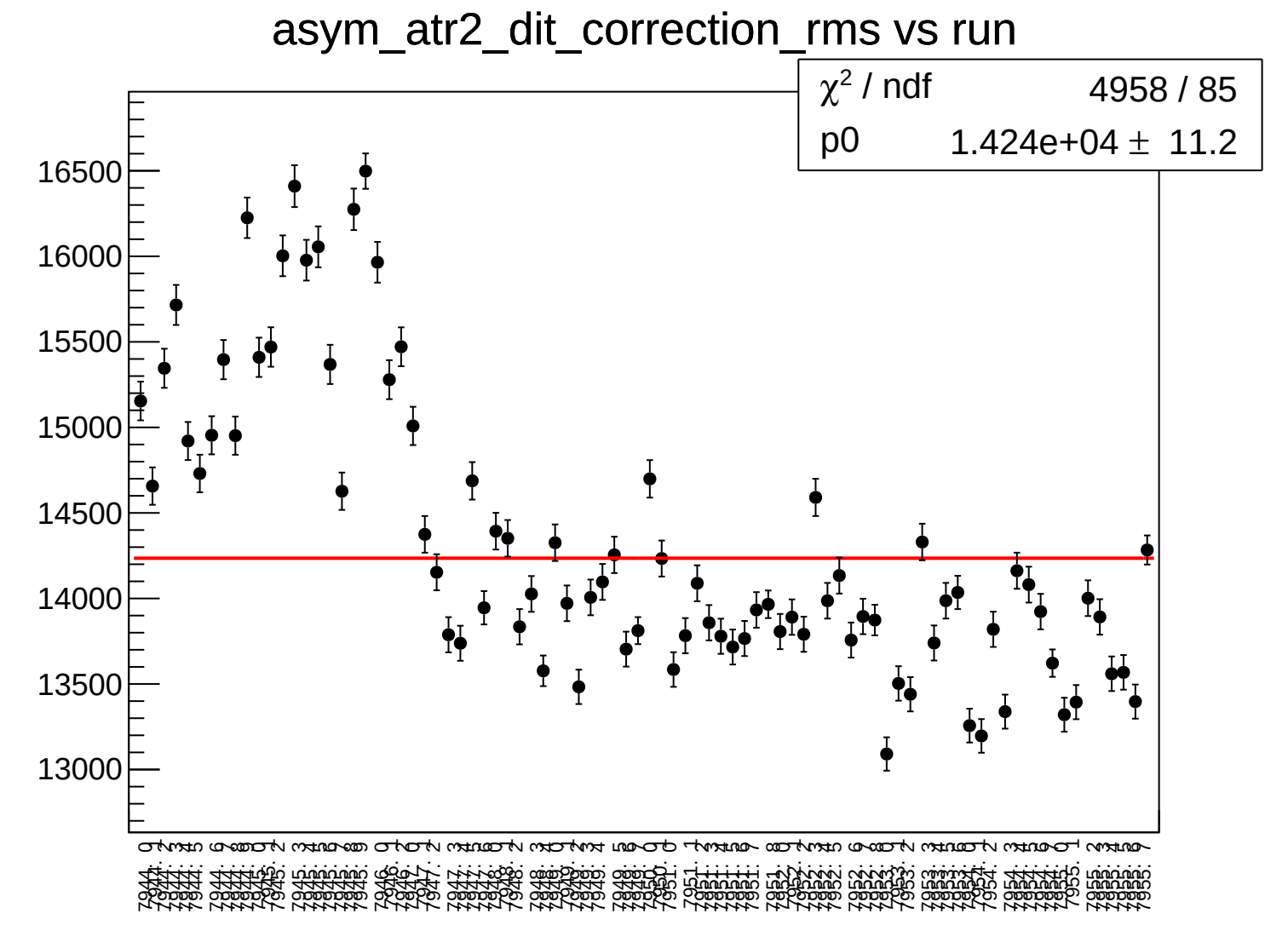

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 100.1 / 85
p0 2151 ± 3208
100
50
0
−50
−100
pull
Entries 86
Mean −30.7
Std Dev 0
2
1
0
−1
−2

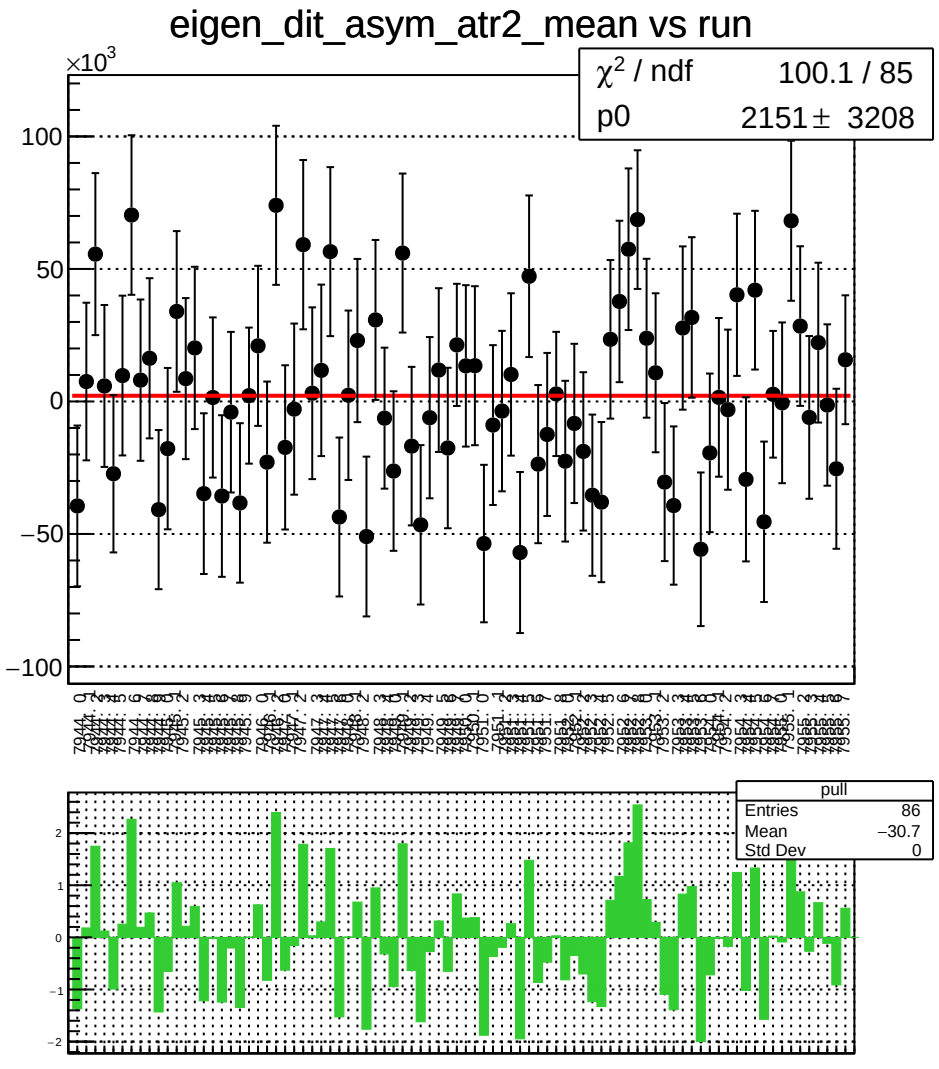

pull1D
Entries 86
Mean −0.004374
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

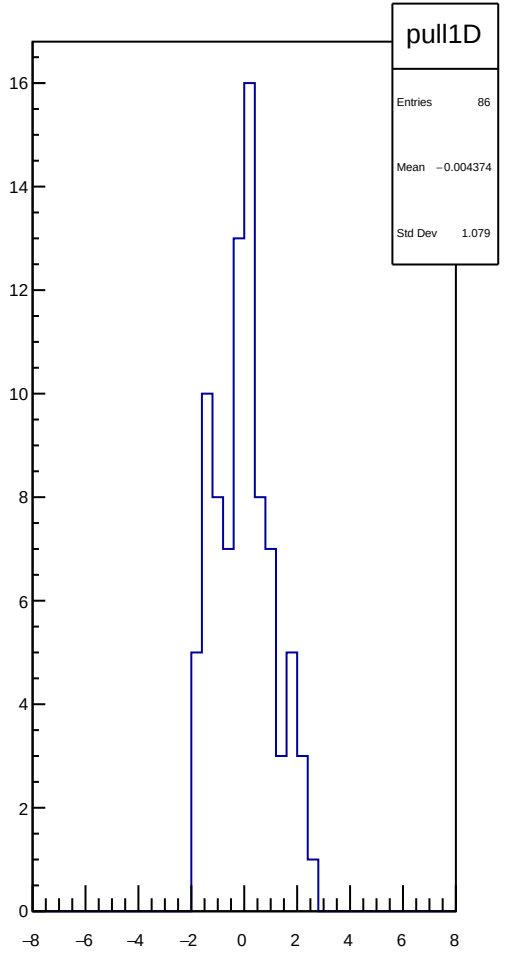

dit_asym_atr2_rms vs run
χ^2 / ndf 536.5 / 85
p0 2886 ± 2.268
3100
3050
3000
2950
2900
2850
2800

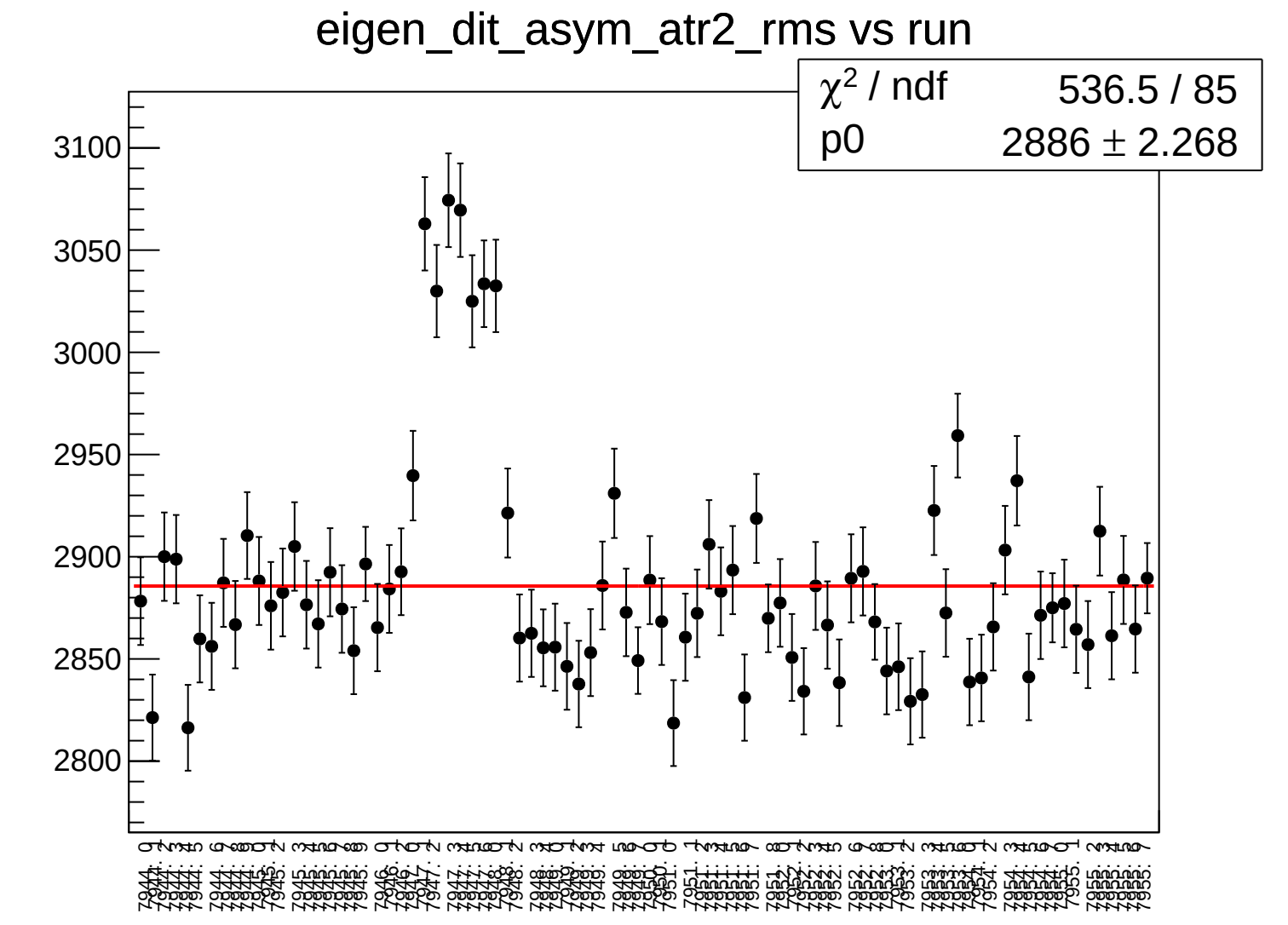

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 90.74 / 85
p0 −6346 ± 1.584e+04
pull
Entries 86
Mean −249.9
Std Dev 0

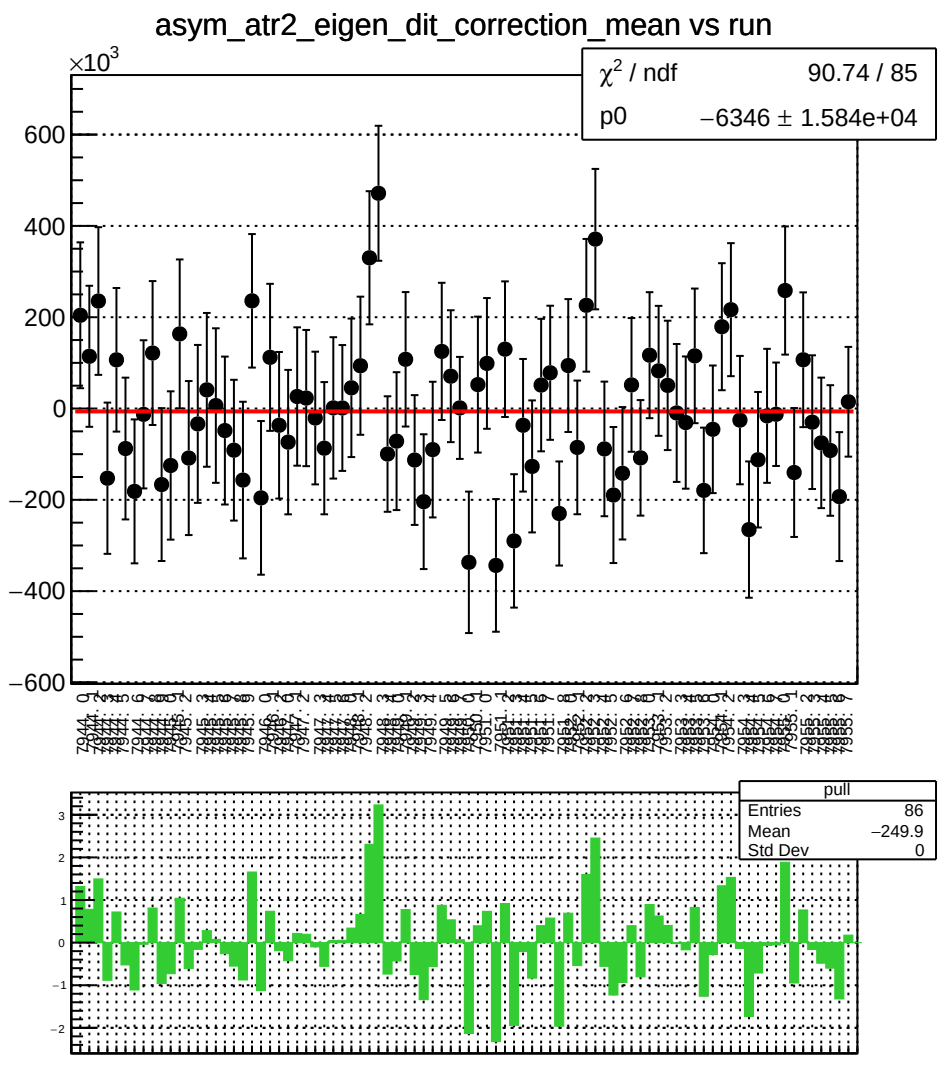

pull1D
Entries 86
Mean 0.005925
Std Dev 1.027

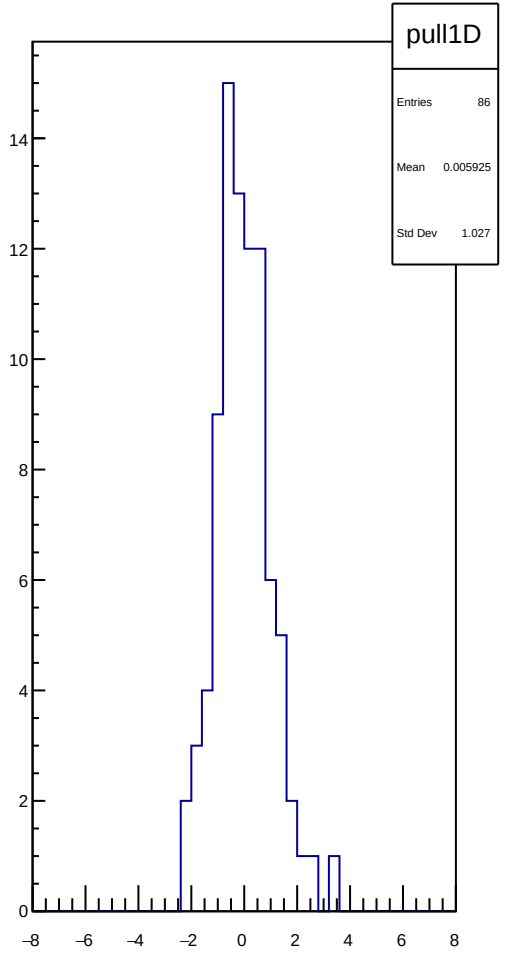

asym_atr2_dit_correction_rms vs run
χ² / ndf 4958 / 85
p0 1.424e+04 ± 11.2
16500
16000
15500
15000
14500
14000
13500
13000

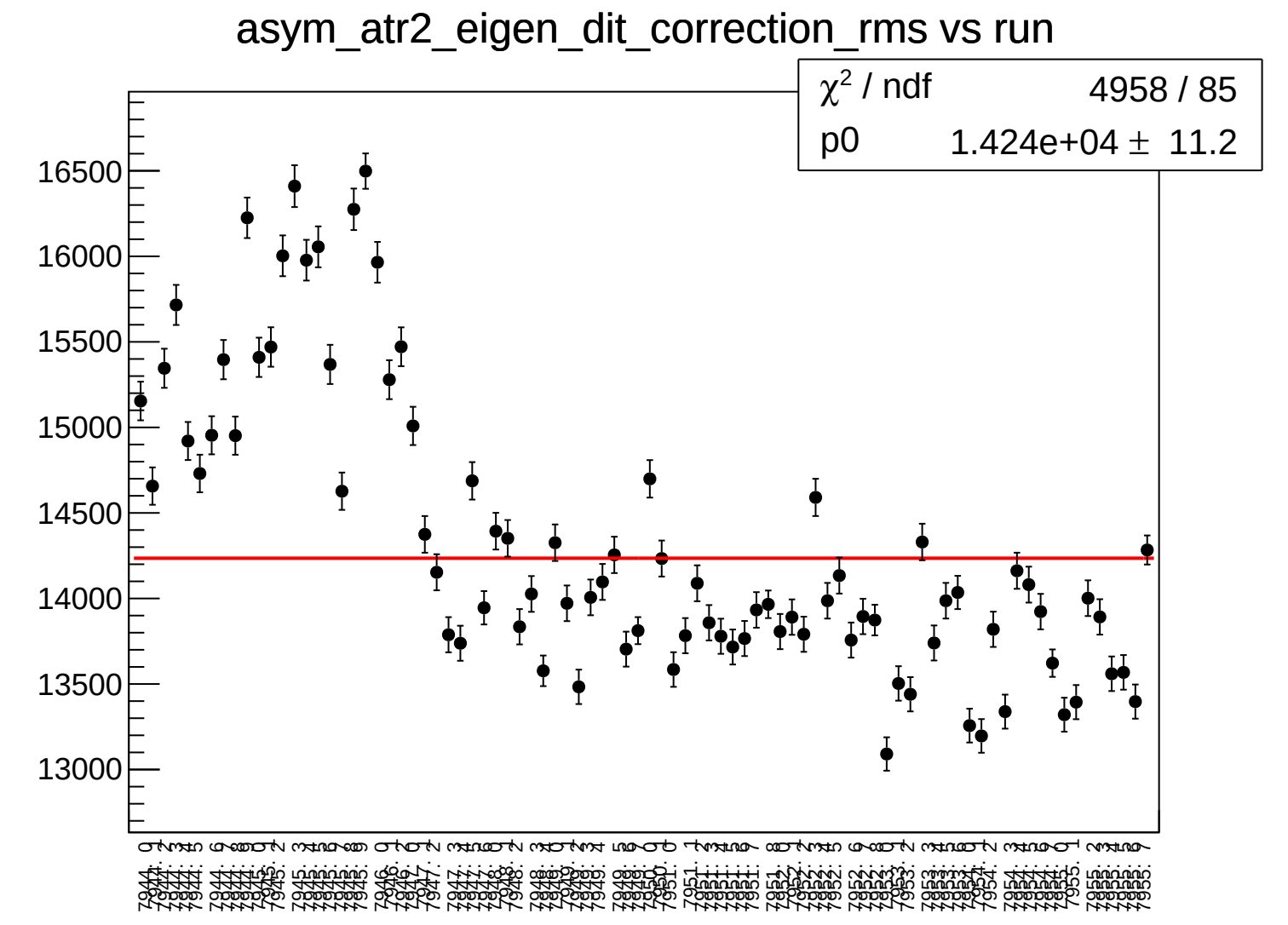

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 100.1 / 85
p0 2151 ± 3208
100
50
0
−50
−100
pull
Entries 86
Mean −30.7
Std Dev 0
2
1
0
−1
−2

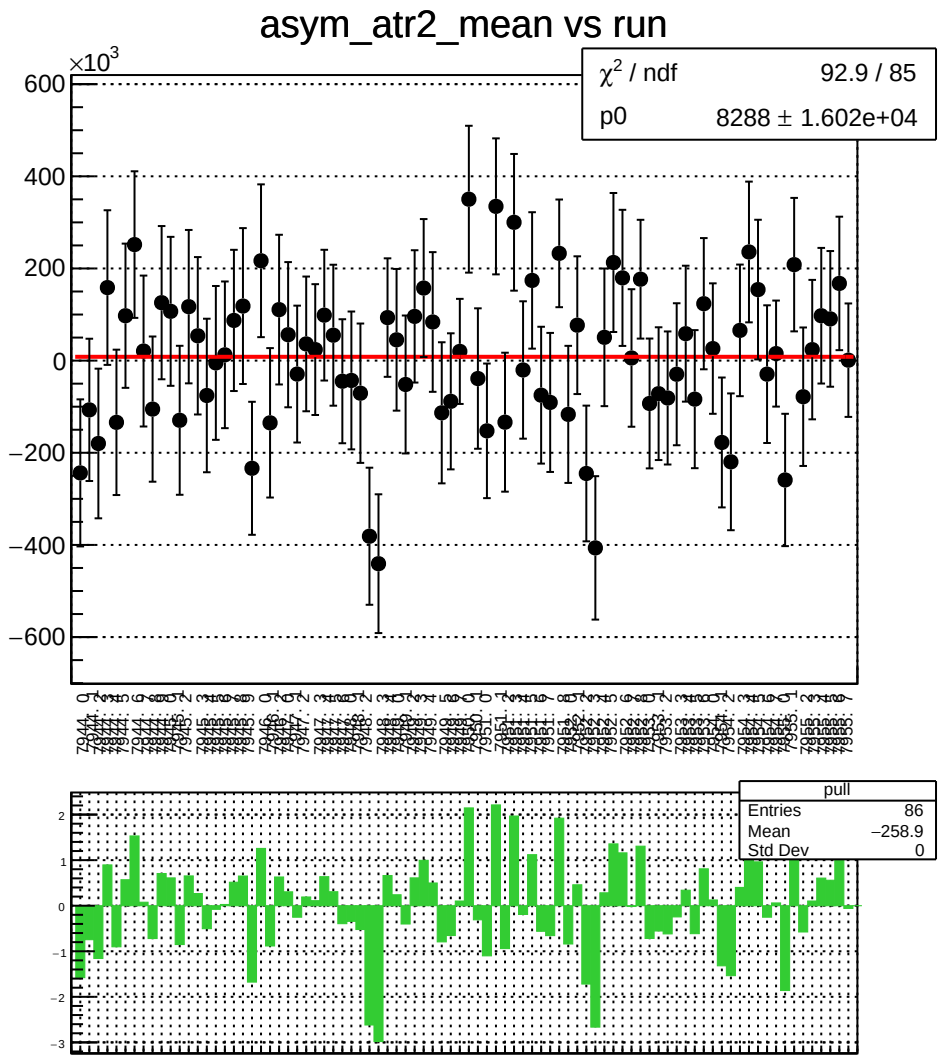

pull1D
Entries 86
Mean −0.004374
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

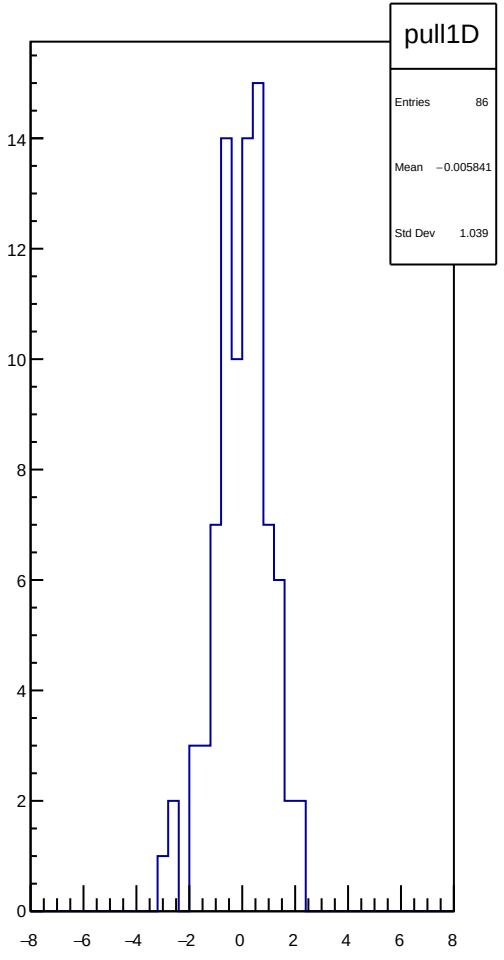

eigen_dit_asym_atr2_rms vs run
χ² / ndf 536.5 / 85
p0 2886 ± 2.268
3100
3050
3000
2950
2900
2850
2800

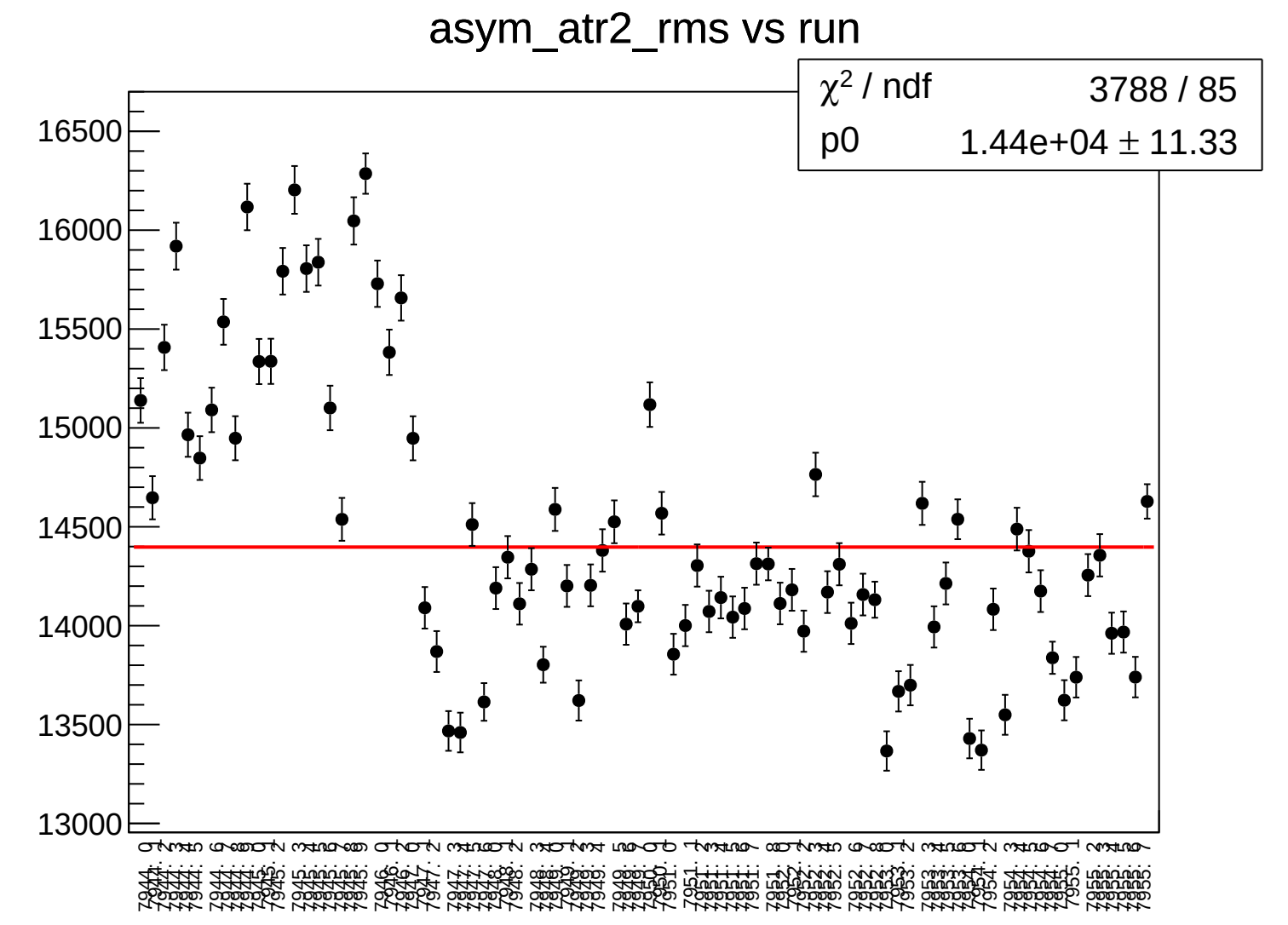

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.74 / 85
p0 −6346 ± 1.584e+04
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean −249.9
Std Dev 0
3
2
1
0
−1
−2

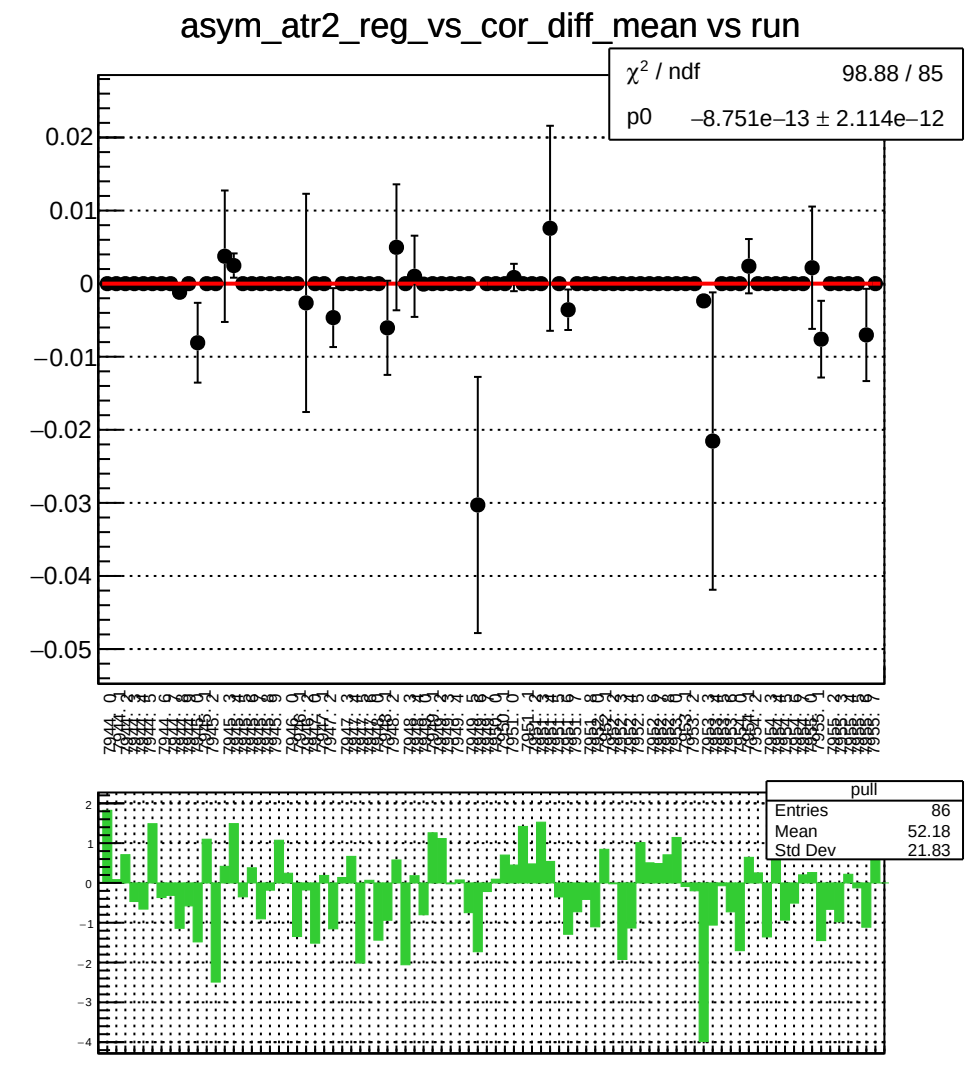

pull1D
Entries 86
Mean 0.005925
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

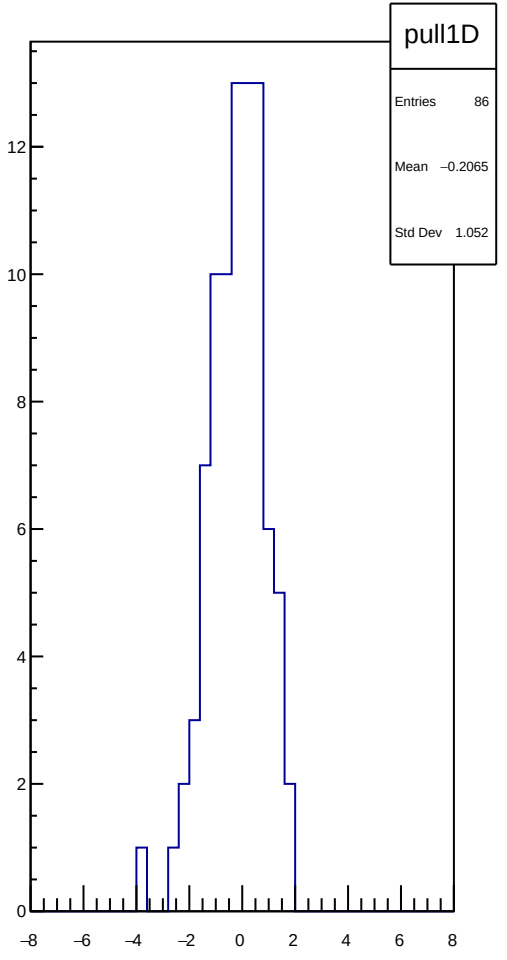

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 4958 / 85
p0 1.424e+04 ± 11.2
16500
16000
15500
15000
14500
14000
13500
13000

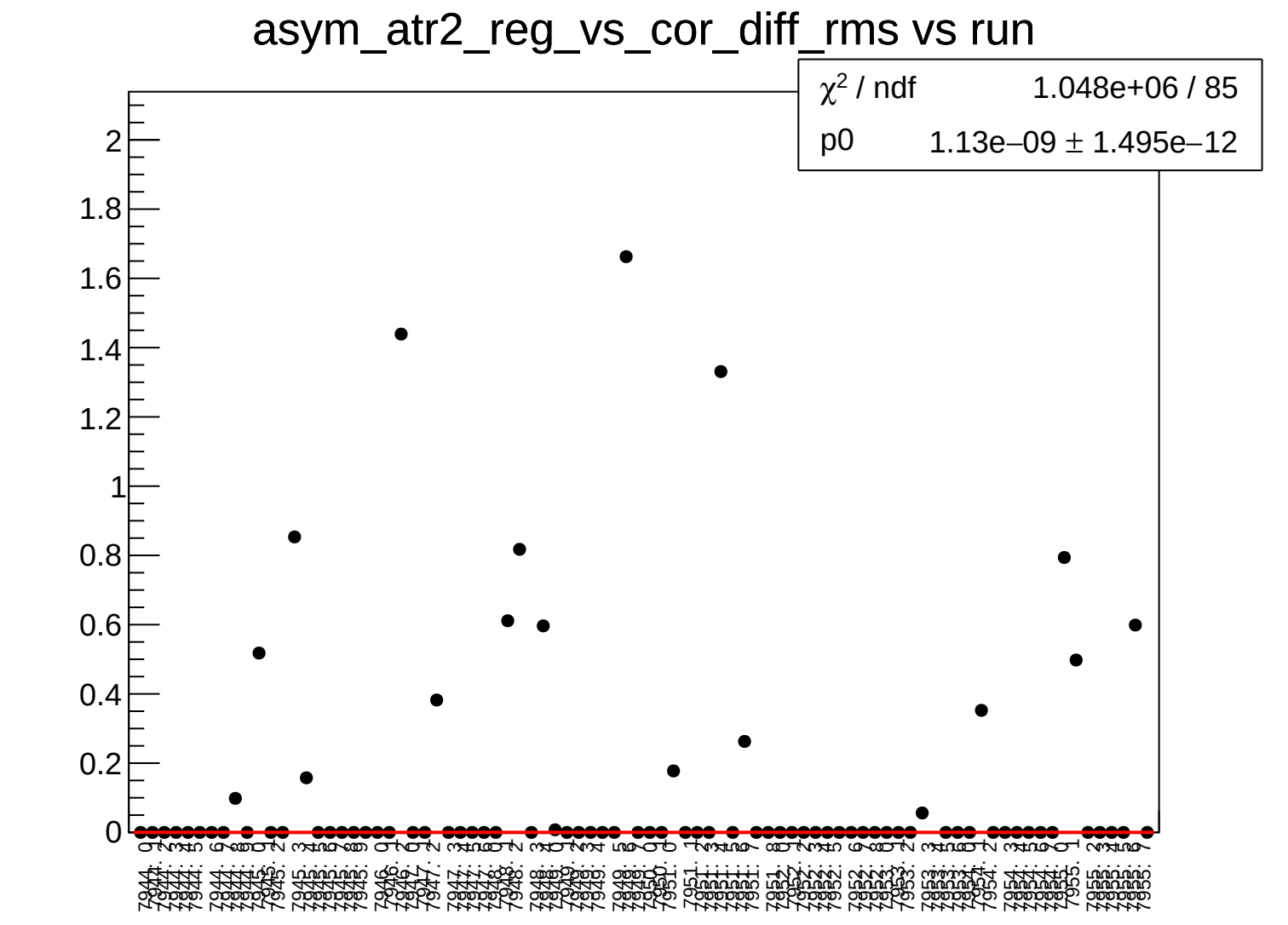

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 92.9 / 85
p0 8288 ± 1.602e+04
pull
Entries 86
Mean −258.9
Std Dev 0
2
1
0
−1
−2
−3

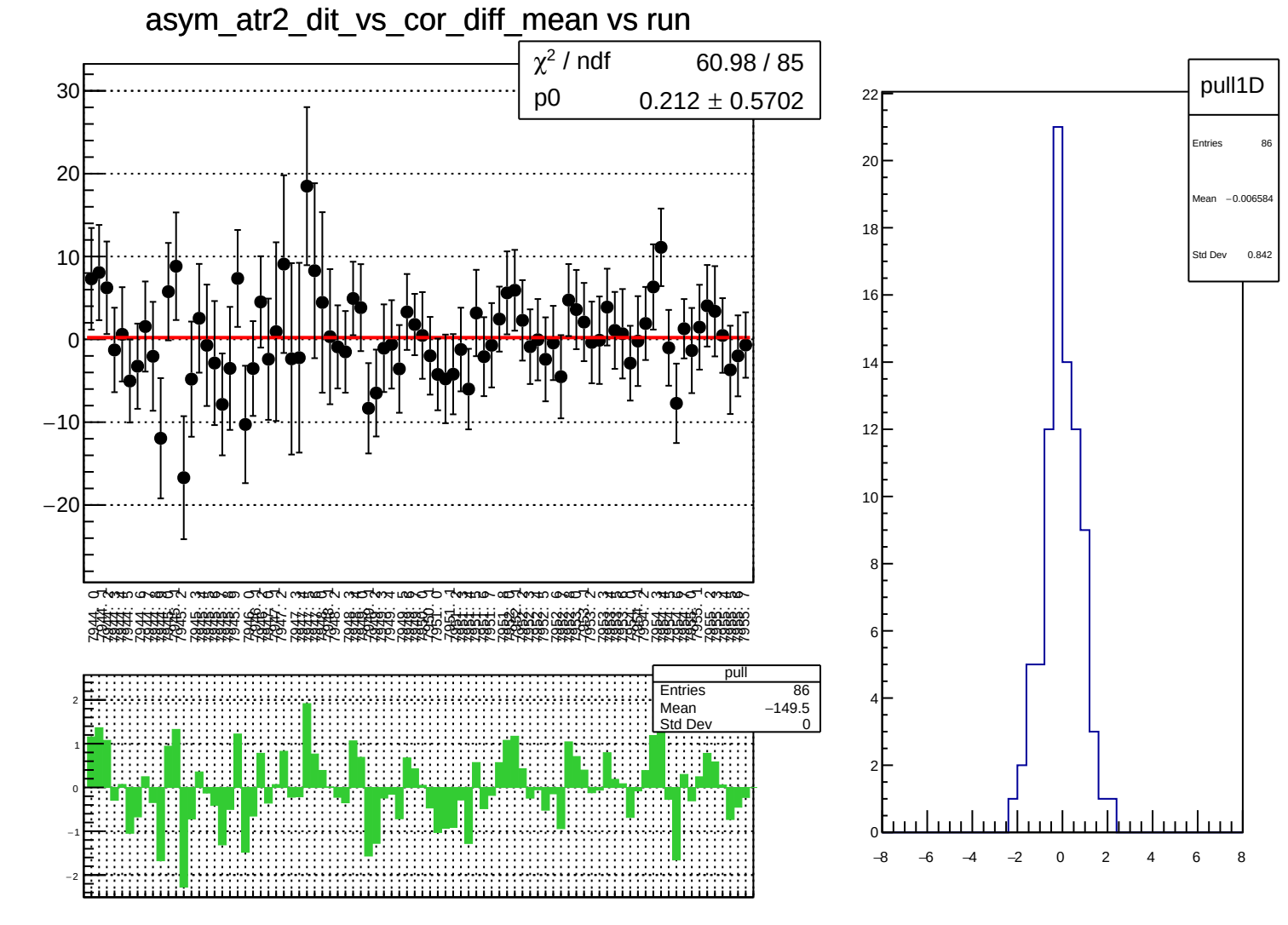

pull1D
Entries 86
Mean −0.005841
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

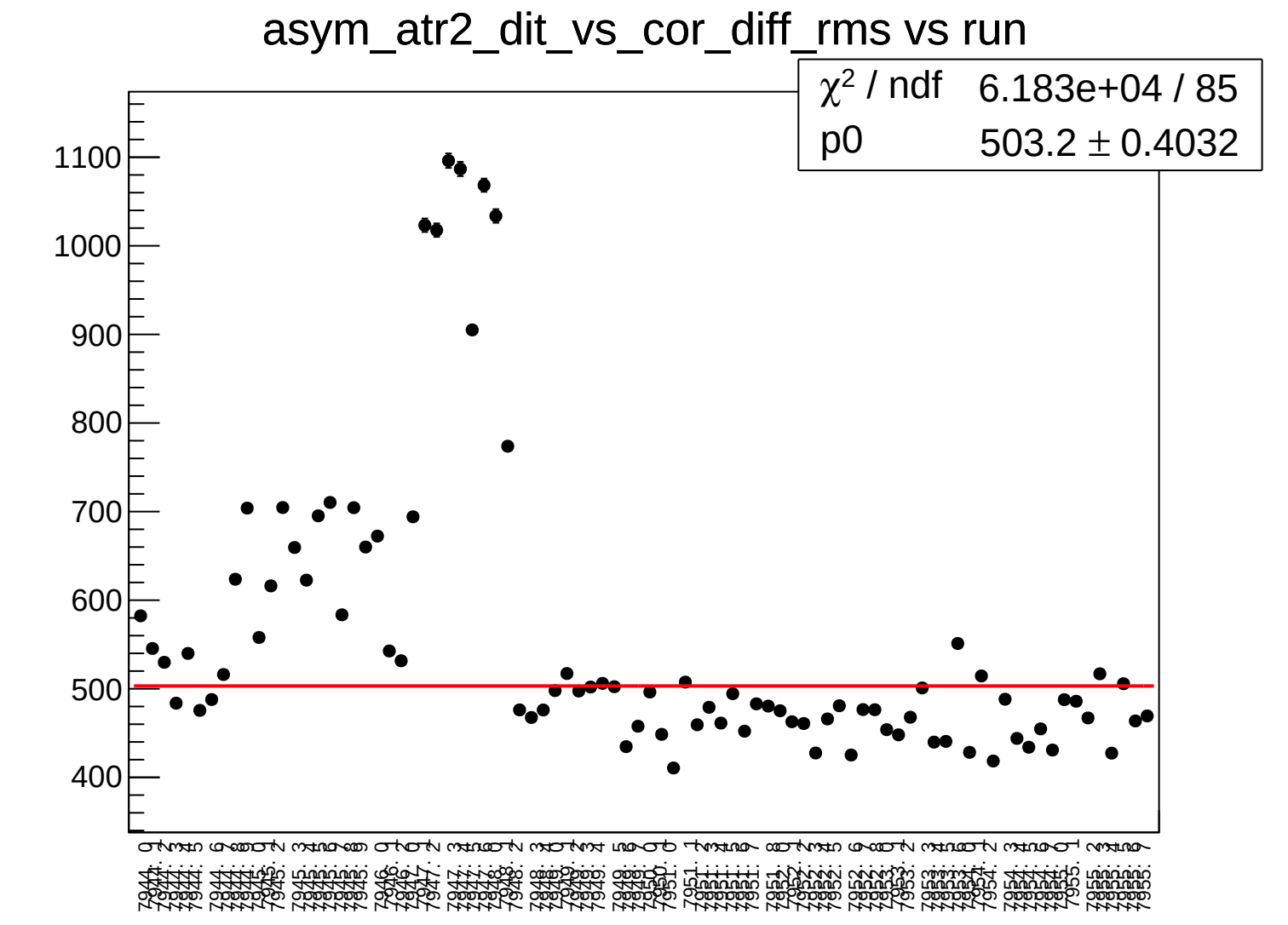

asym_atr2_rms vs run
χ^2 / ndf 3788 / 85
p0 1.44e+04 ± 11.33
16500
16000
15500
15000
14500
14000
13500
13000

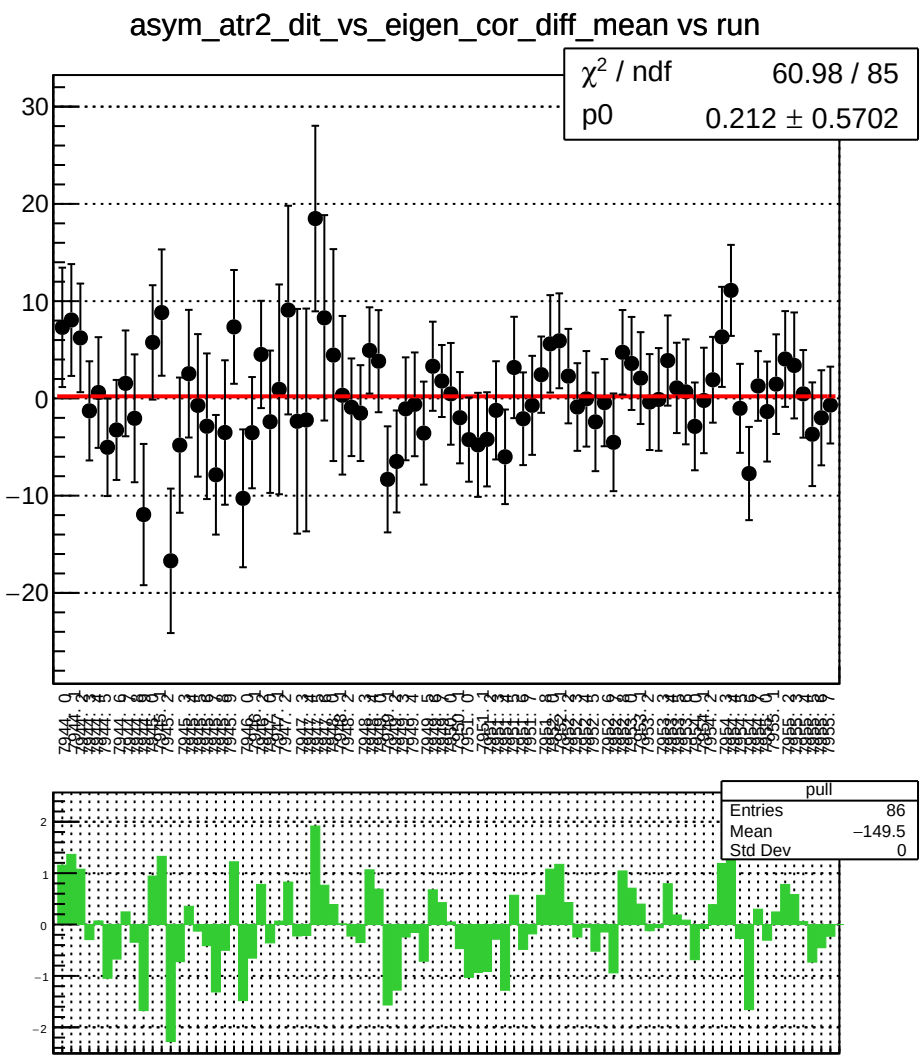

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 98.88 / 85
p0 −8.751e−13 ± 2.114e−12
pull
Entries 86
Mean 52.18
Std Dev 21.83

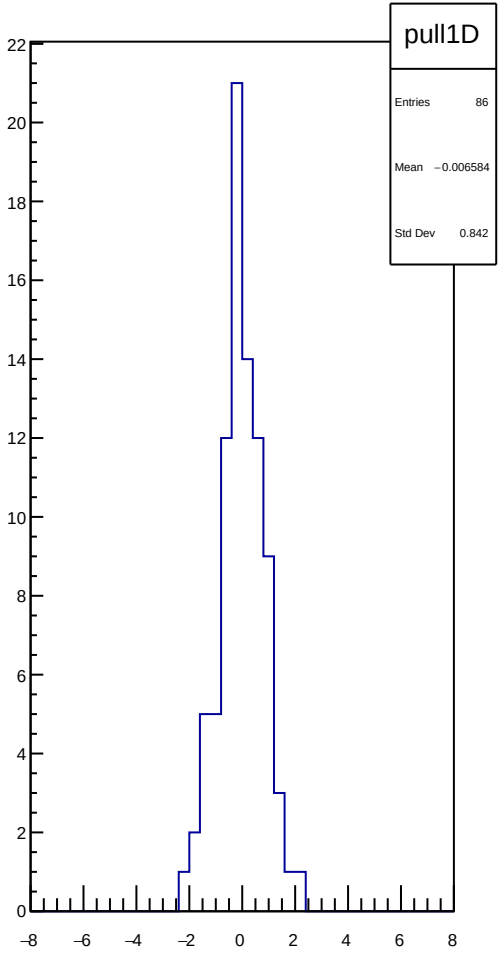

pull1D
Entries 86
Mean −0.2065
Std Dev 1.052

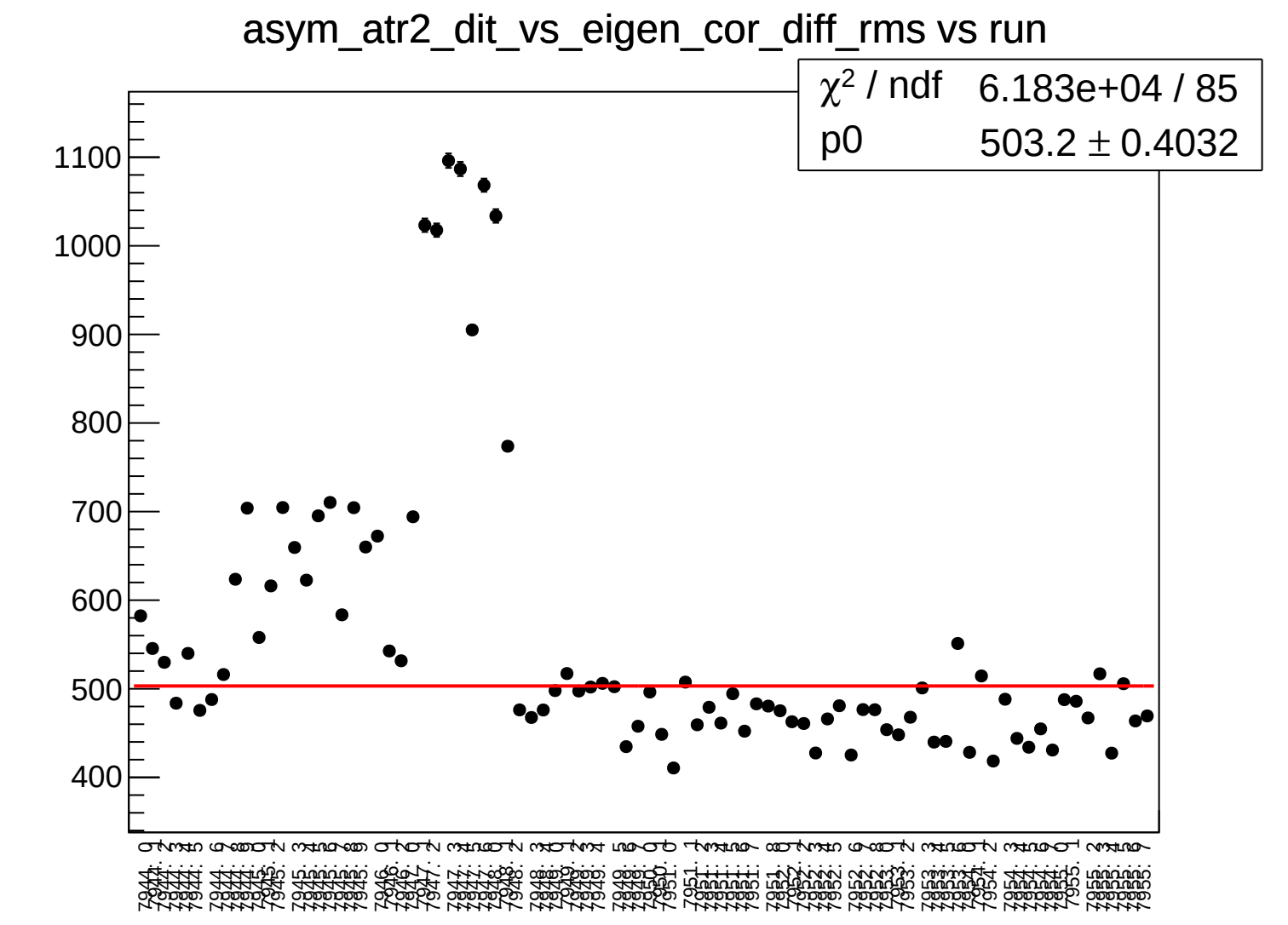

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.048e+06 / 85
p0 1.13e−09 ± 1.495e−12
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

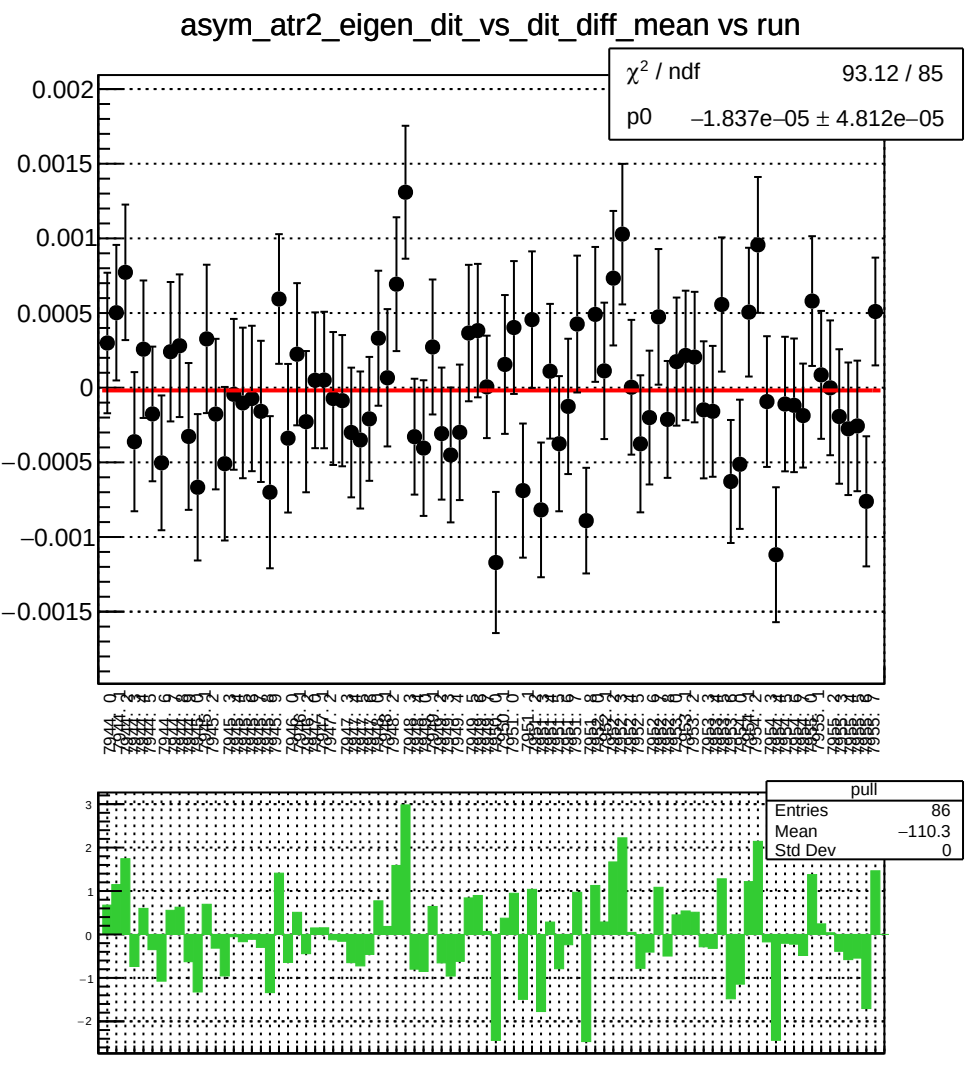

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 60.98 / 85
p0 0.212 ± 0.5702
pull
Entries 86
Mean −149.5
Std Dev 0
pull1D
Entries 86
Mean −0.006584
Std Dev 0.842

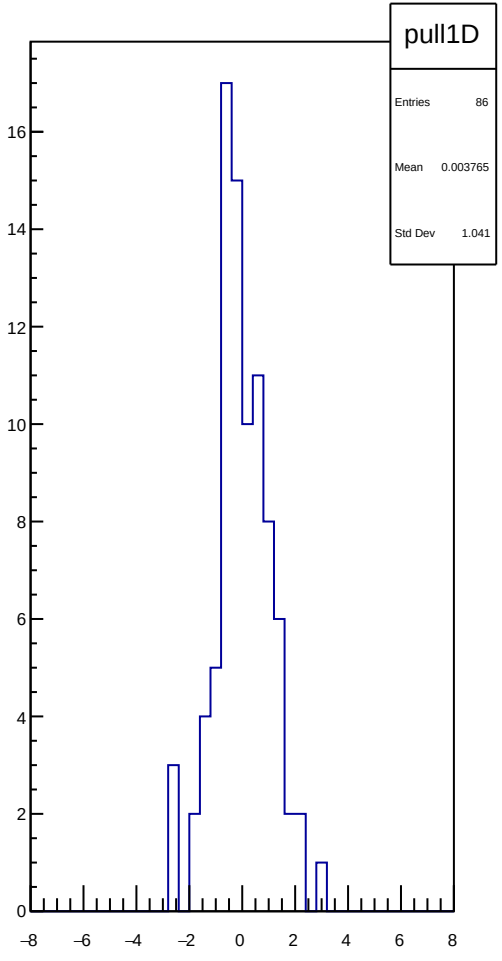

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.183e+04 / 85
p0 503.2 ± 0.4032
1100
1000
900
800
700
600
500
400

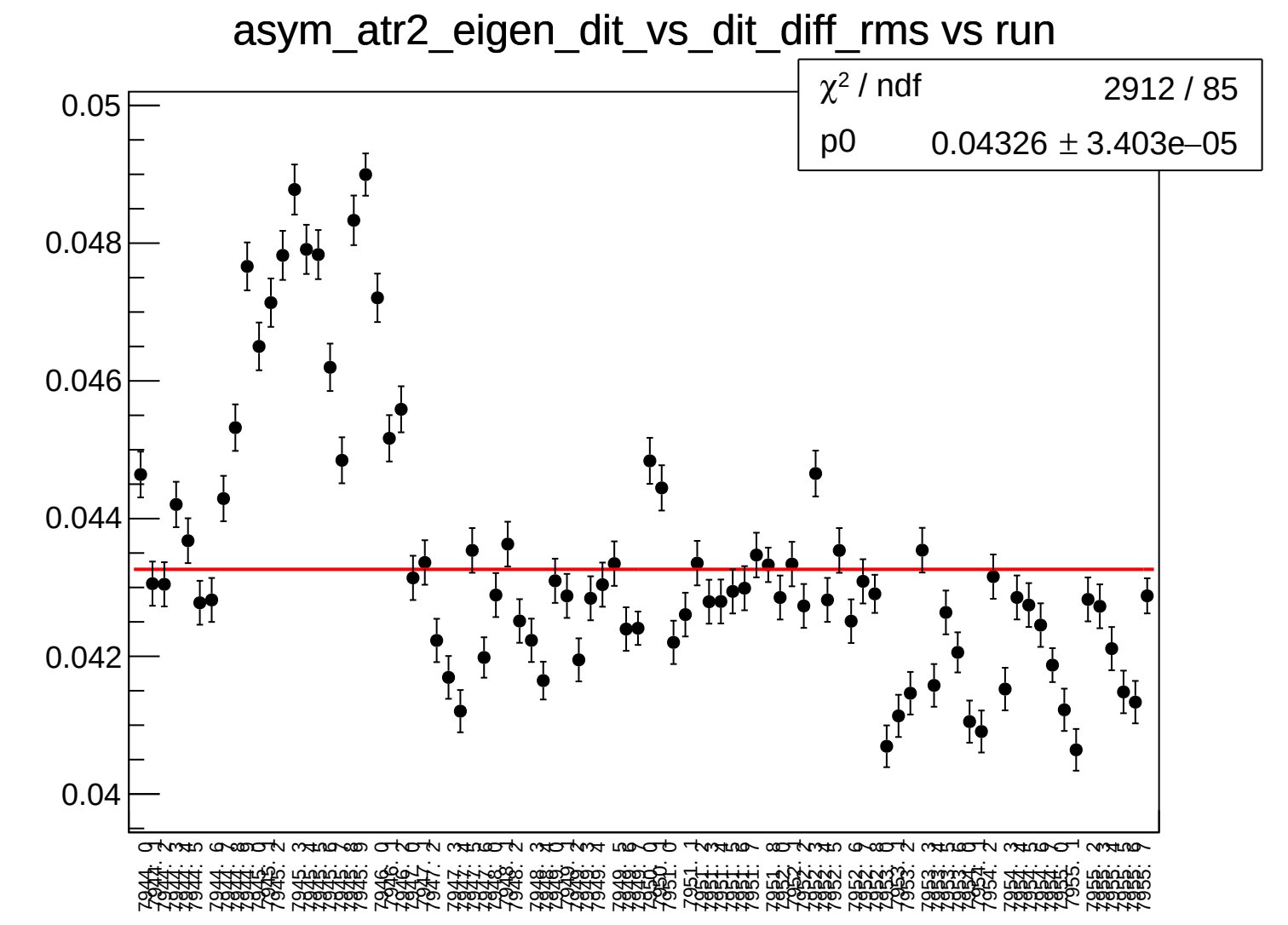

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.98 / 85
p0 0.212 ± 0.5702
pull
Entries 86
Mean −149.5
Std Dev 0

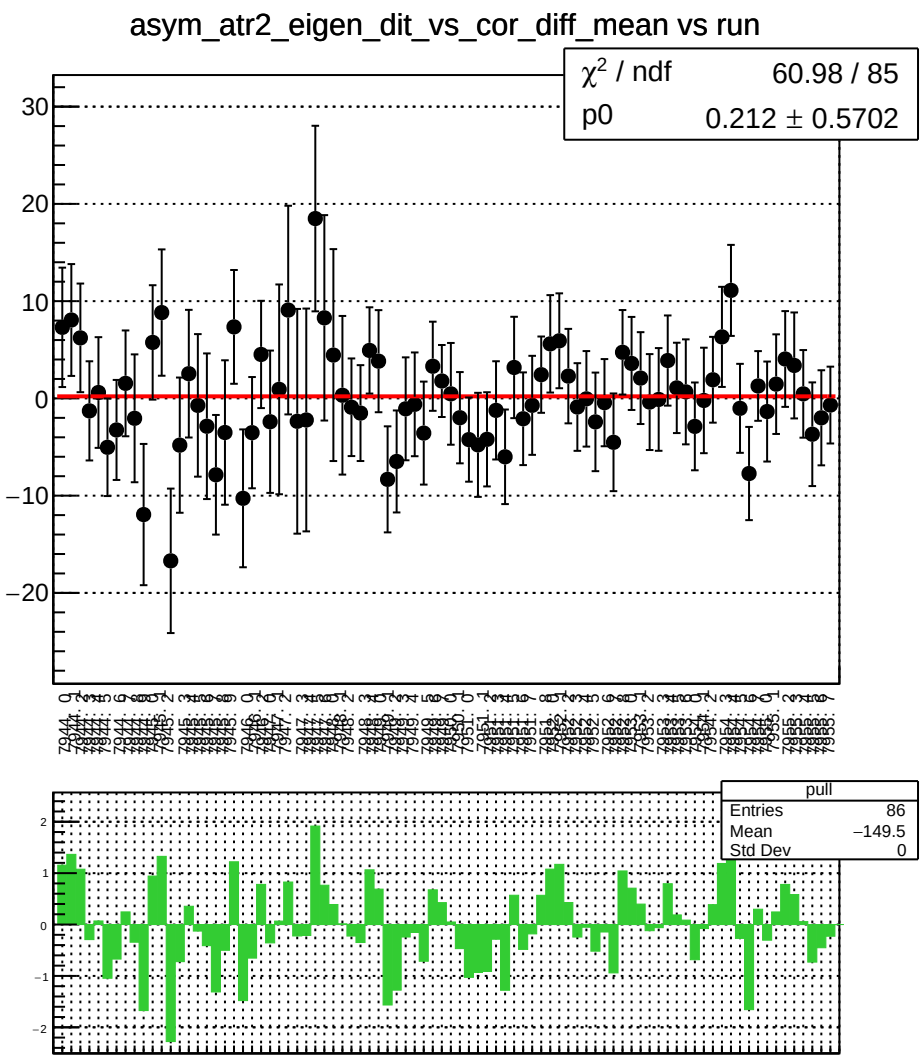

pull1D
Entries 86
Mean −0.006584
Std Dev 0.842

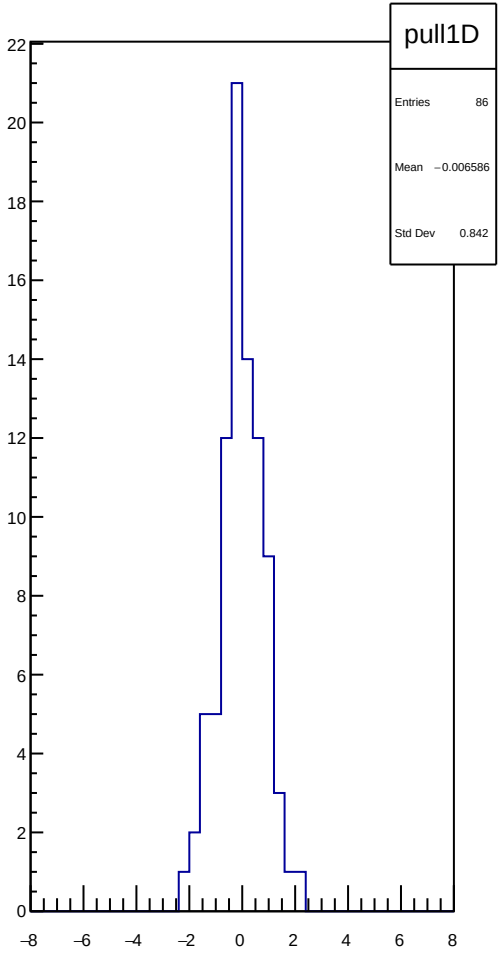

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.183e+04 / 85
p0 503.2 ± 0.4032
1100
1000
900
800
700
600
500
400

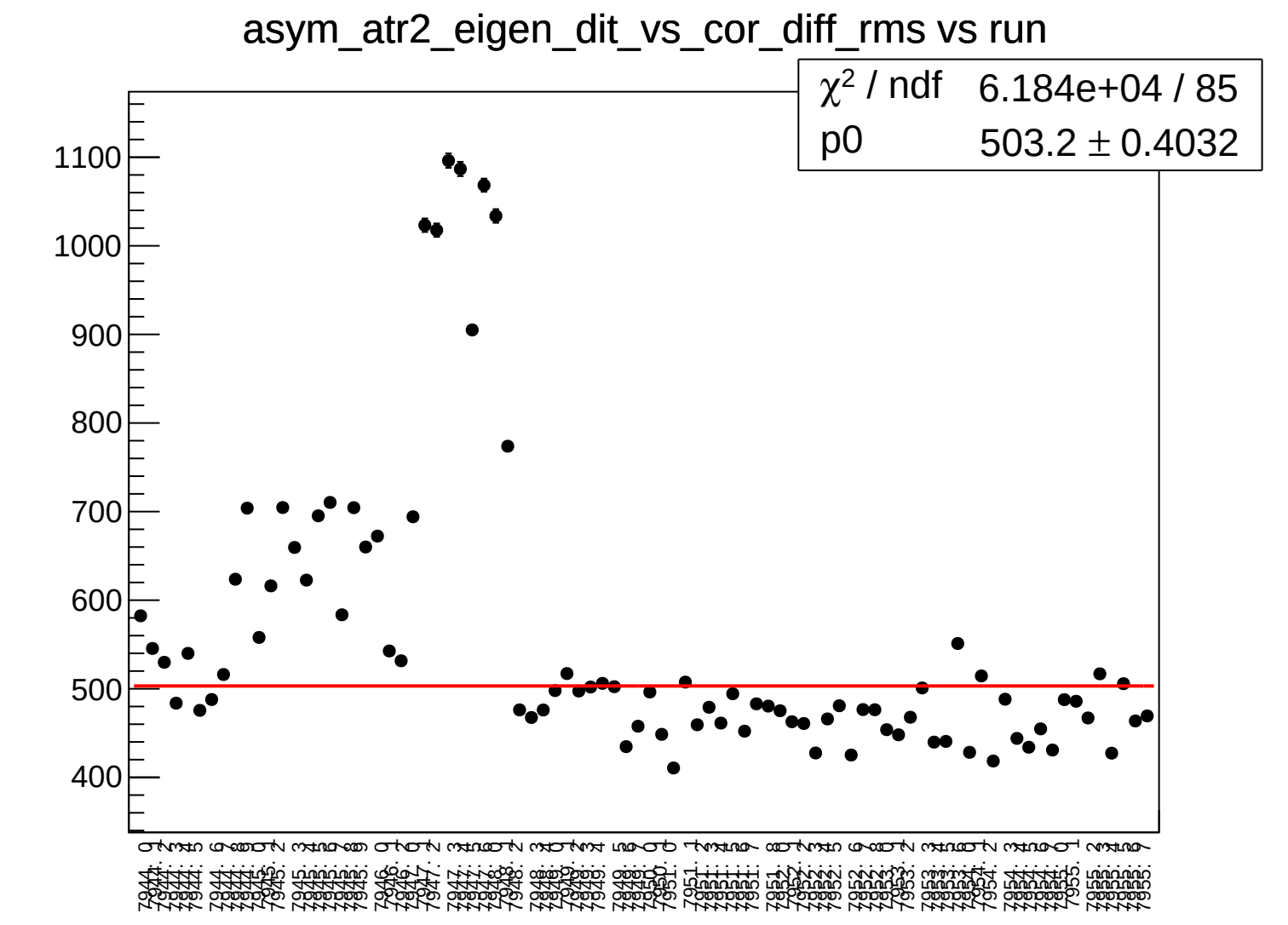

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 93.12 / 85
p0 −1.837e−05 ± 4.812e−05
pull
Entries 86
Mean −110.3
Std Dev 0


pull1D
Entries 86
Mean 0.003765
Std Dev 1.041

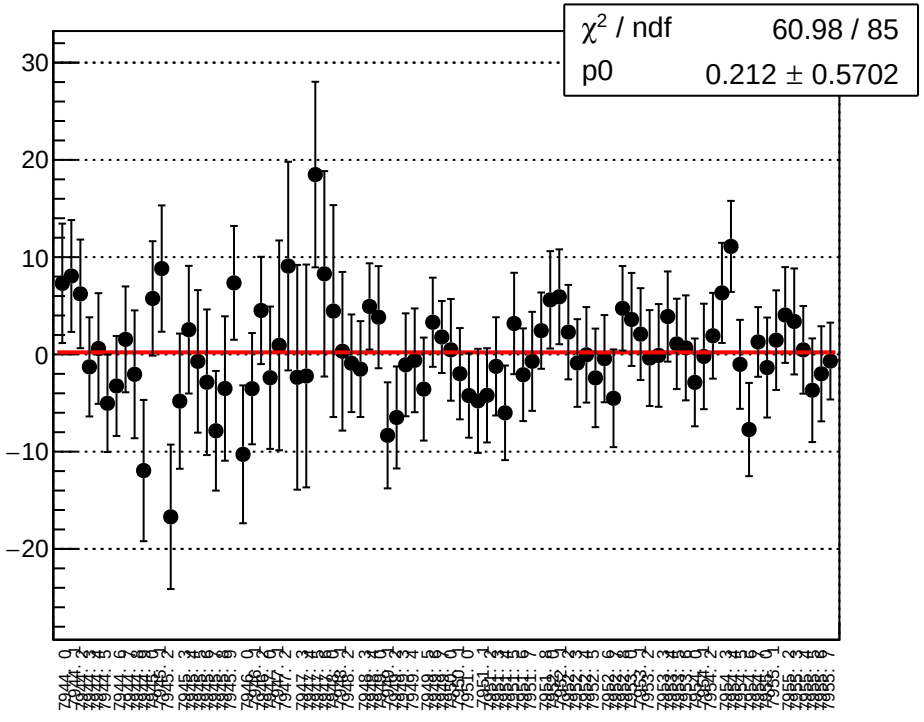

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2912 / 85
p0 0.04326 ± 3.403e−05
0.05
0.048
0.046
0.044
0.042
0.04

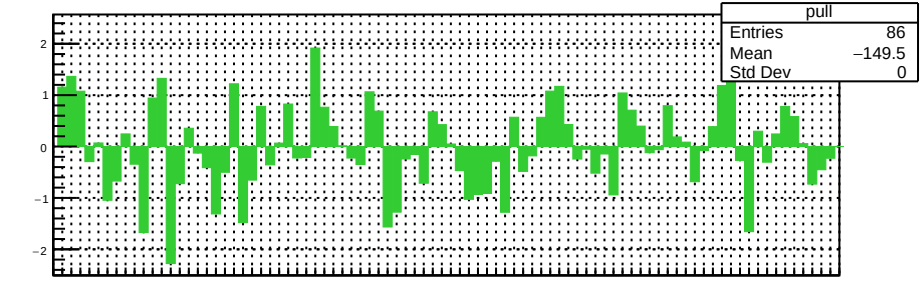

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.98 / 85
p0 0.212 ± 0.5702
pull
Entries 86
Mean −149.5
Std Dev 0

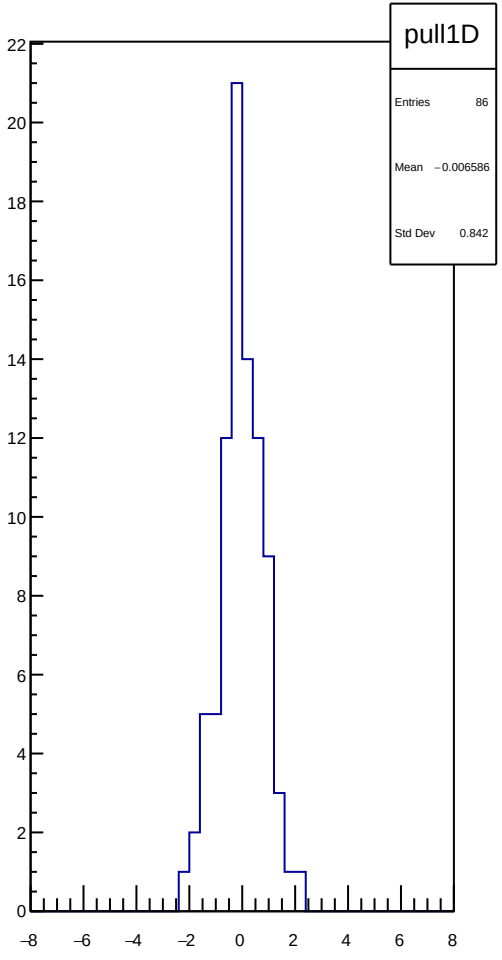

pull1D
Entries 86
Mean −0.006586
Std Dev 0.842

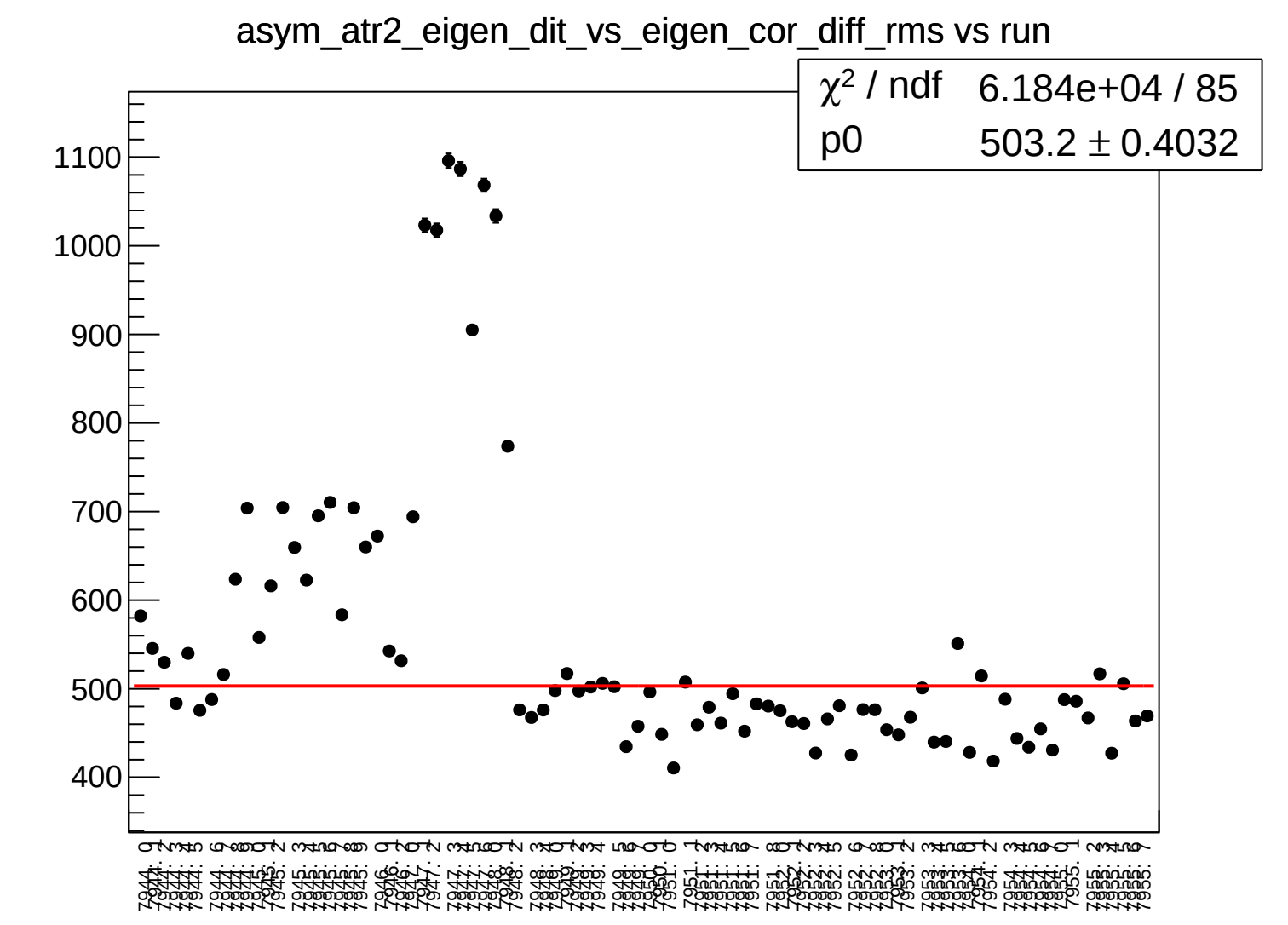

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.184e+04 / 85
p0 503.2 ± 0.4032
1100
1000
900
800
700
600
500
400

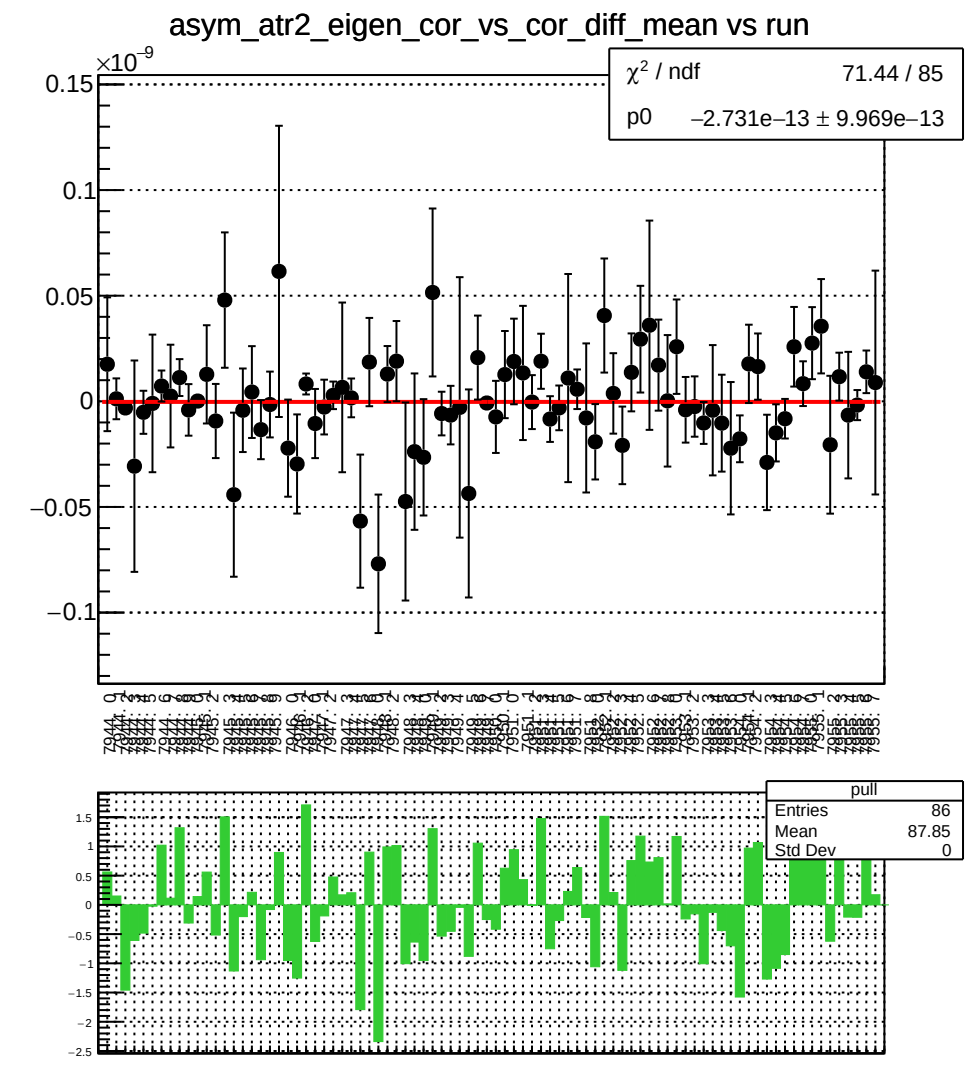
asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run

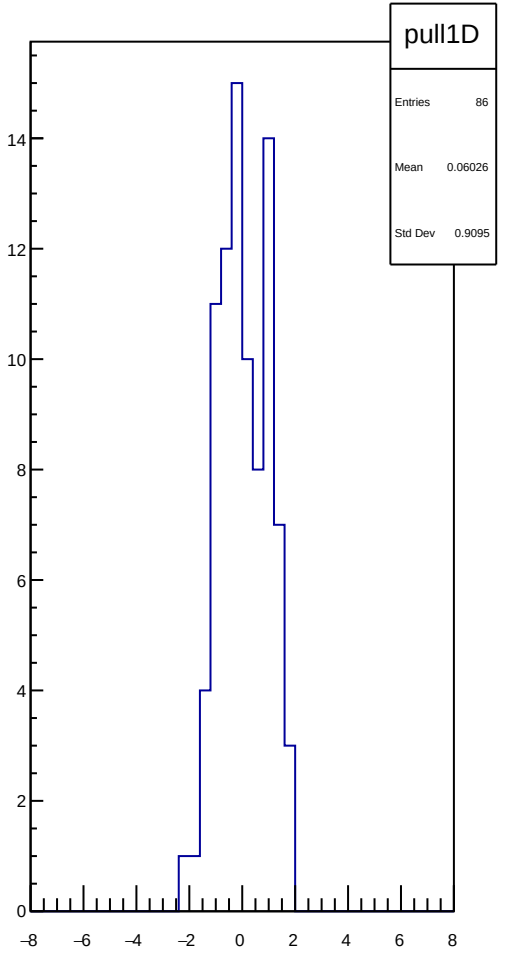


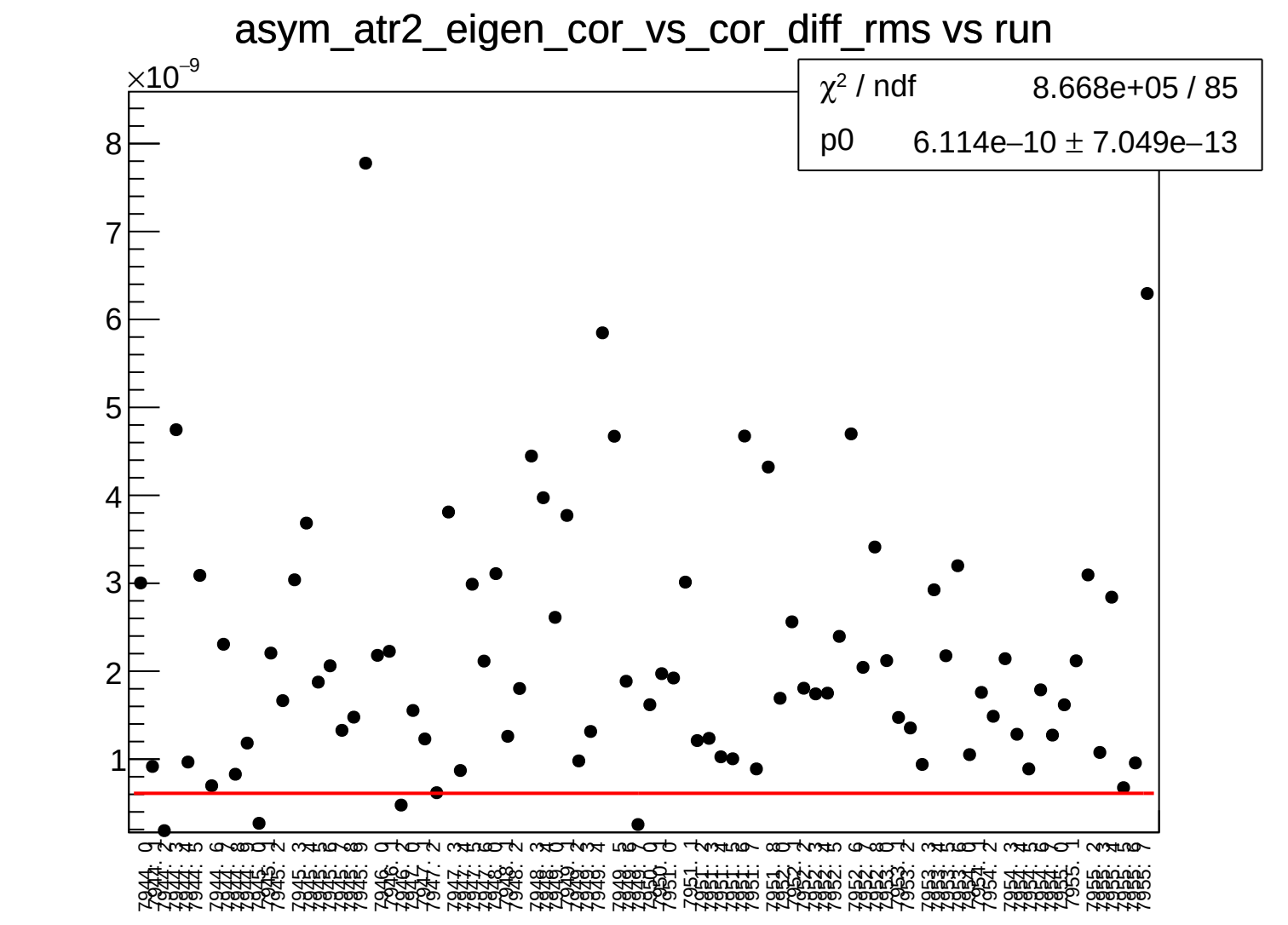


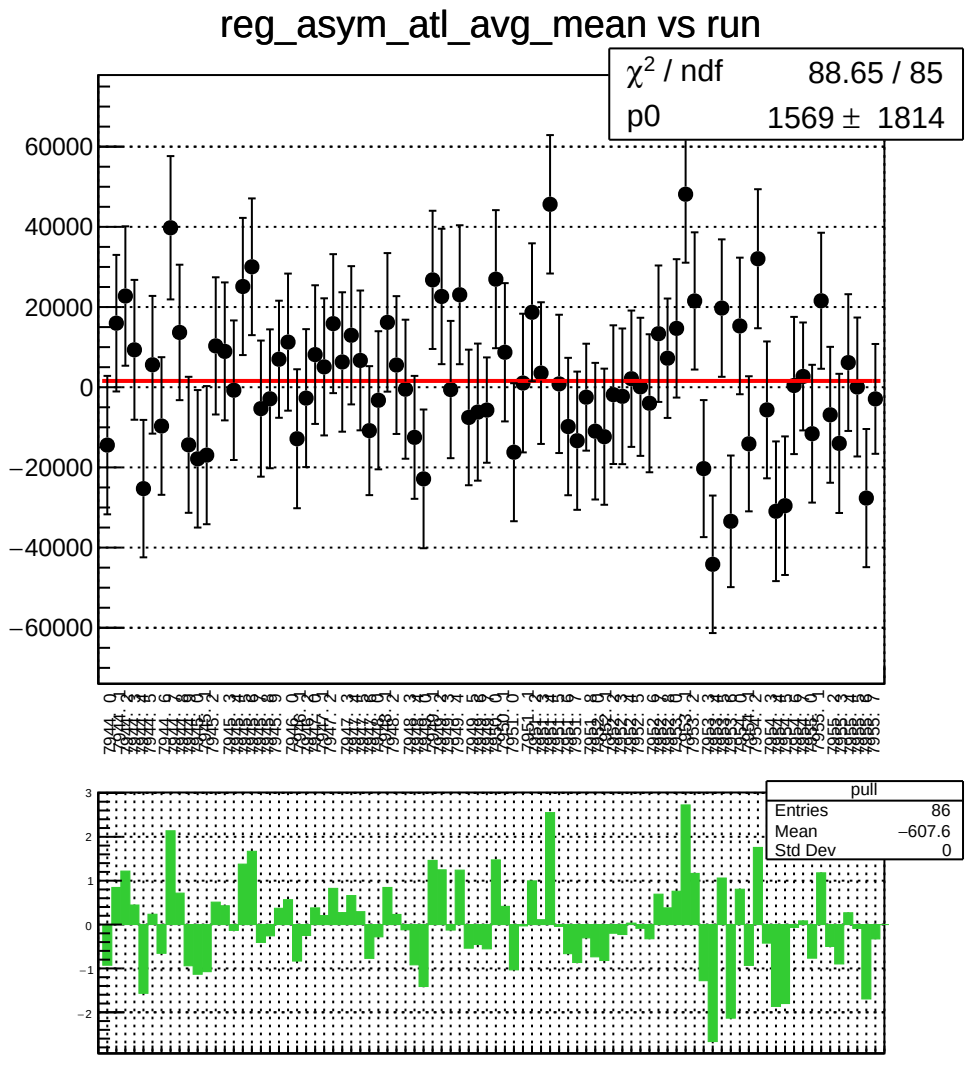


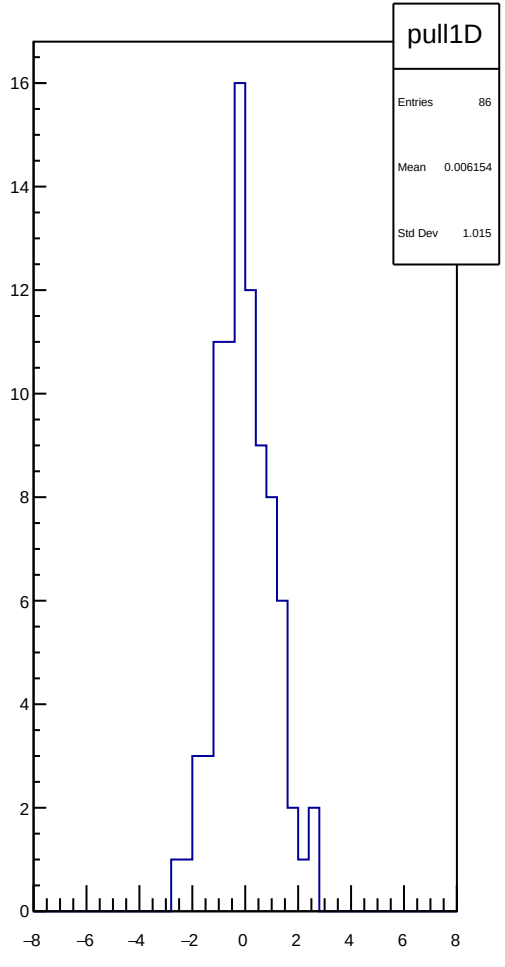

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.184e+04 / 85
p0 503.2 ± 0.4032
1100
1000
900
800
700
600
500
400

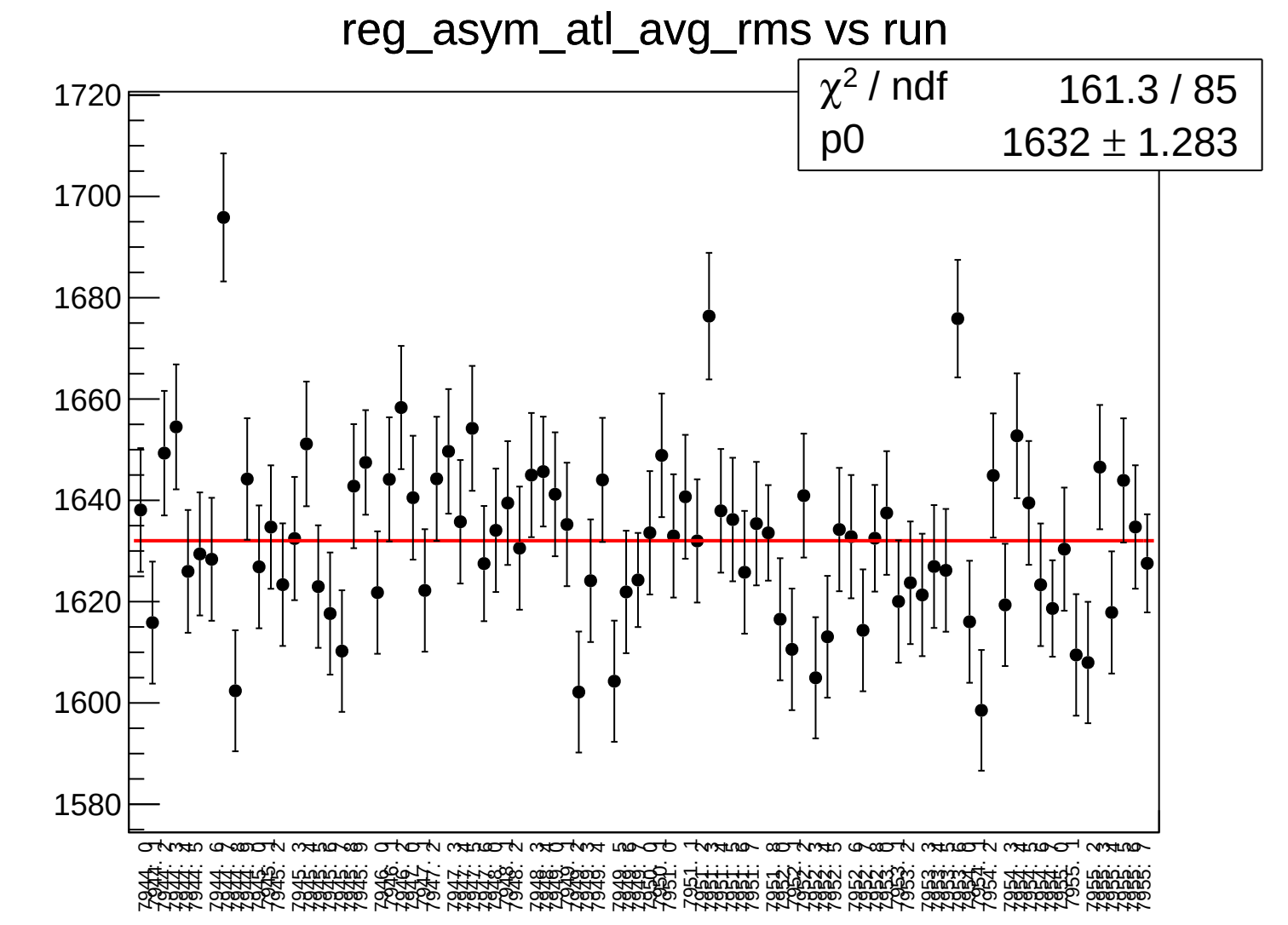

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 71.44 / 85
p0 −2.731e−13 ± 9.969e−13
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 87.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

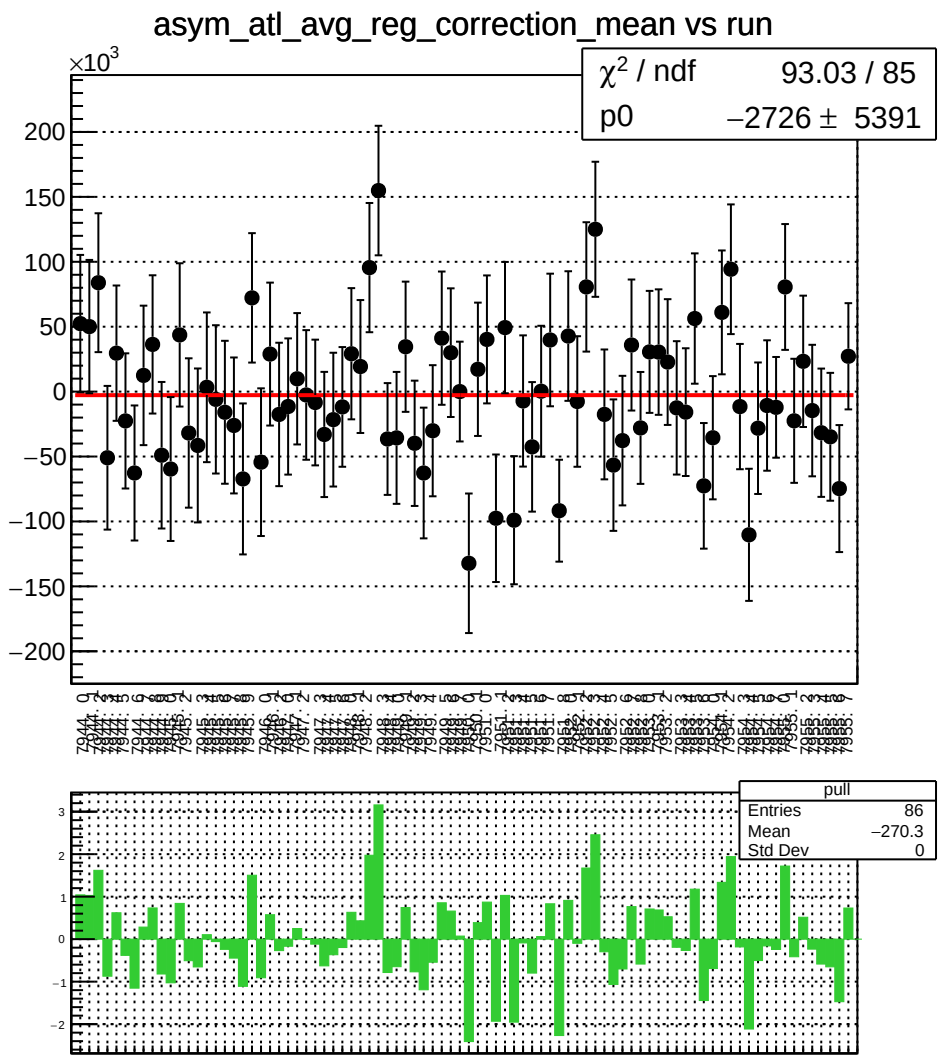

pull1D
Entries 86
Mean 0.06026
Std Dev 0.9095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

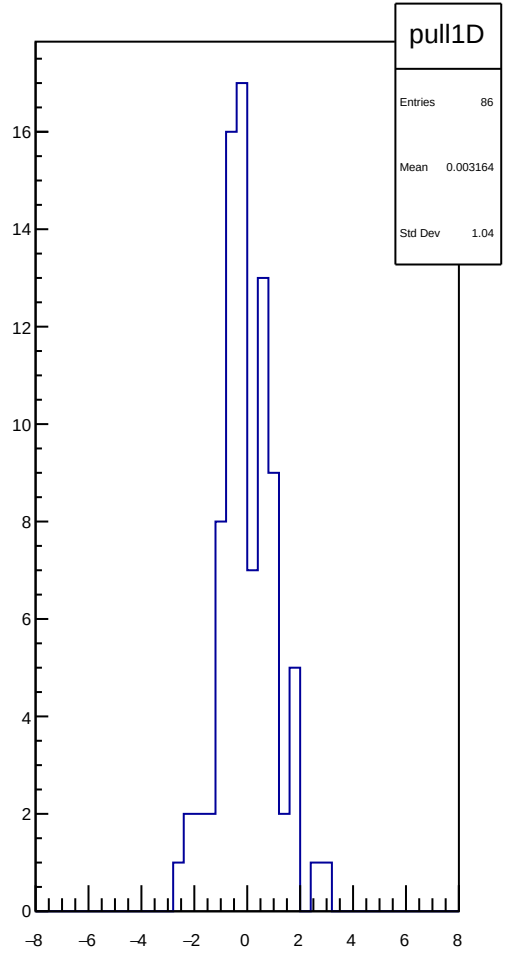

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.668e+05 / 85
p0 6.114e−10 ± 7.049e−13
8
7
6
5
4
3
2
1

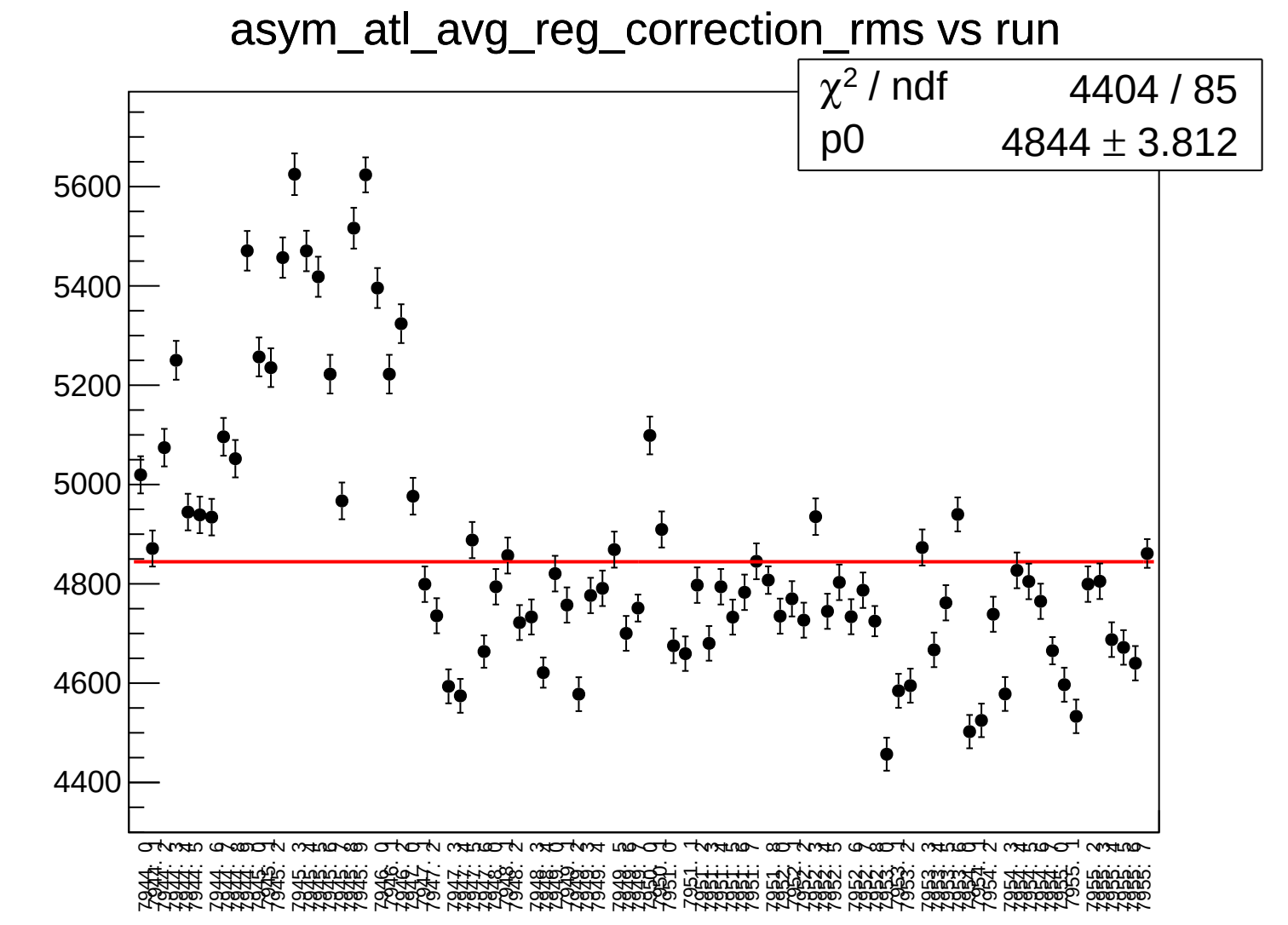

reg_asym_atl_avg_mean vs run
χ² / ndf 88.65 / 85
p0 1569 ± 1814
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −607.6
Std Dev 0
3
2
1
0
−1
−2

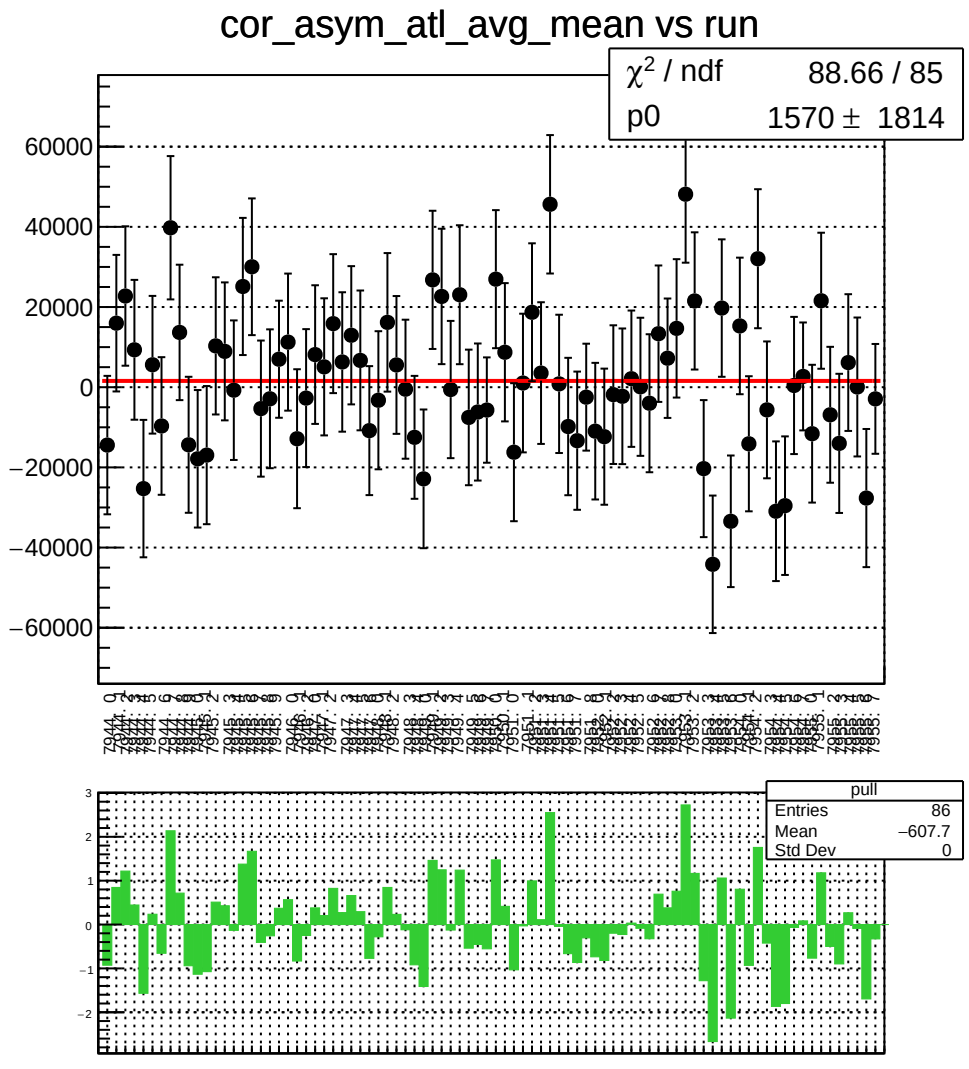

pull1D
Entries 86
Mean 0.006154
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

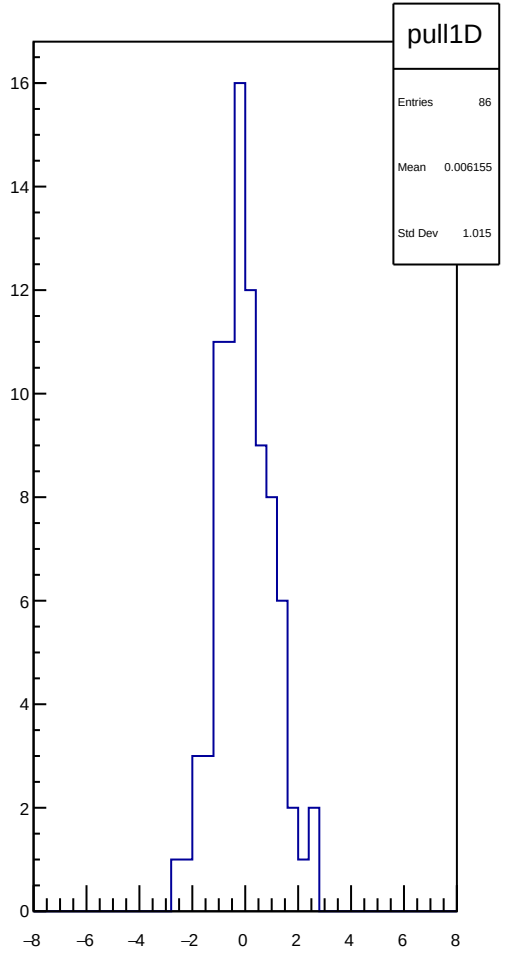

reg_asym_atl_avg_rms vs run
χ² / ndf 161.3 / 85
p0 1632 ± 1.283
1720
1700
1680
1660
1640
1620
1600
1580

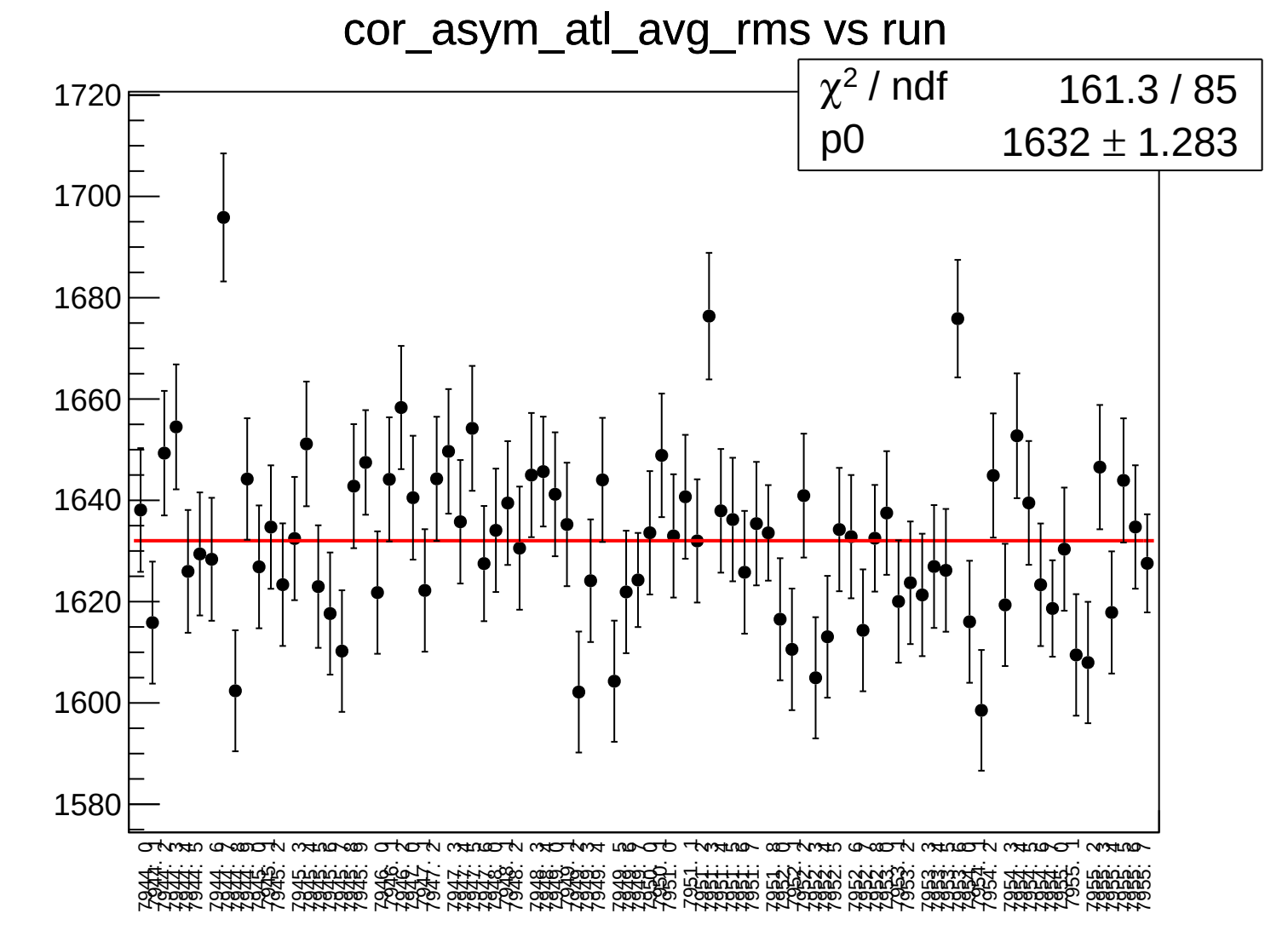

asym_atl_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 93.03 / 85
p0 −2726 ± 5391
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −270.3
Std Dev 0
3
2
1
0
−1
−2

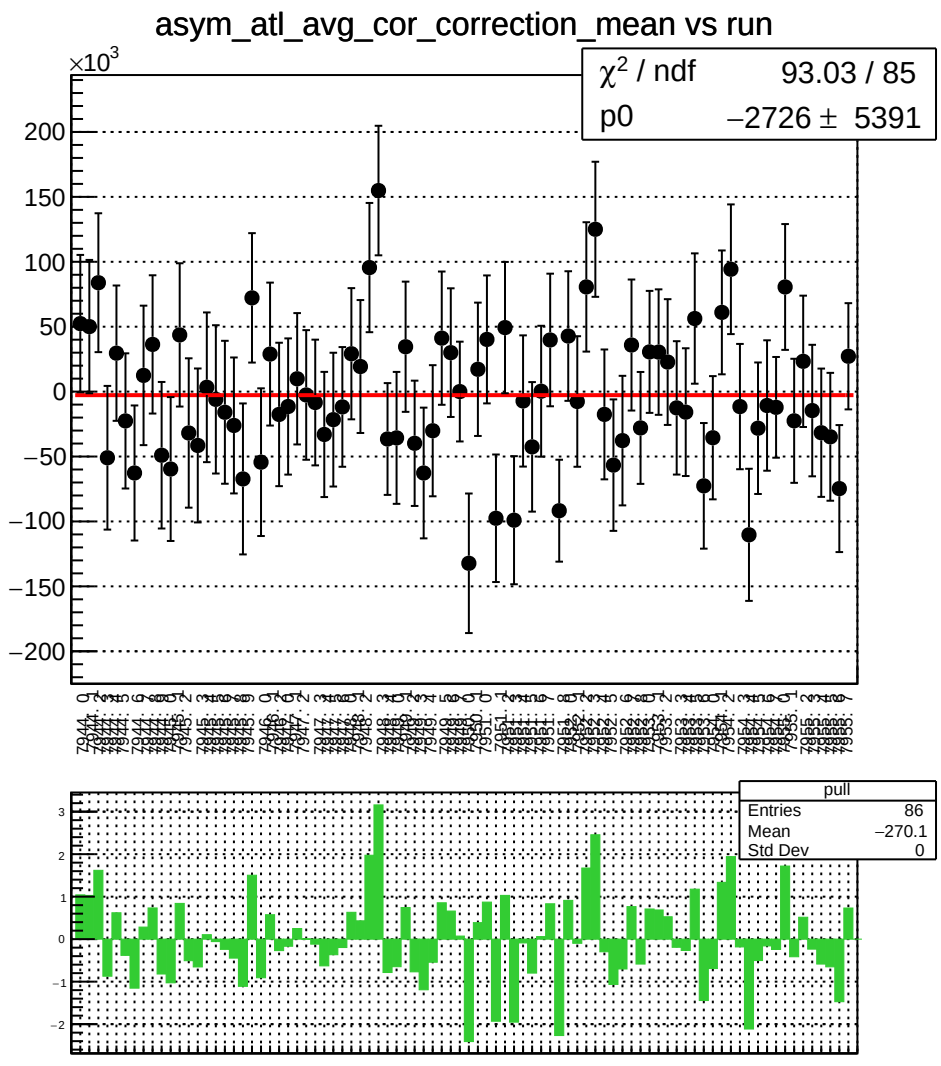

pull1D
Entries 86
Mean 0.003164
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

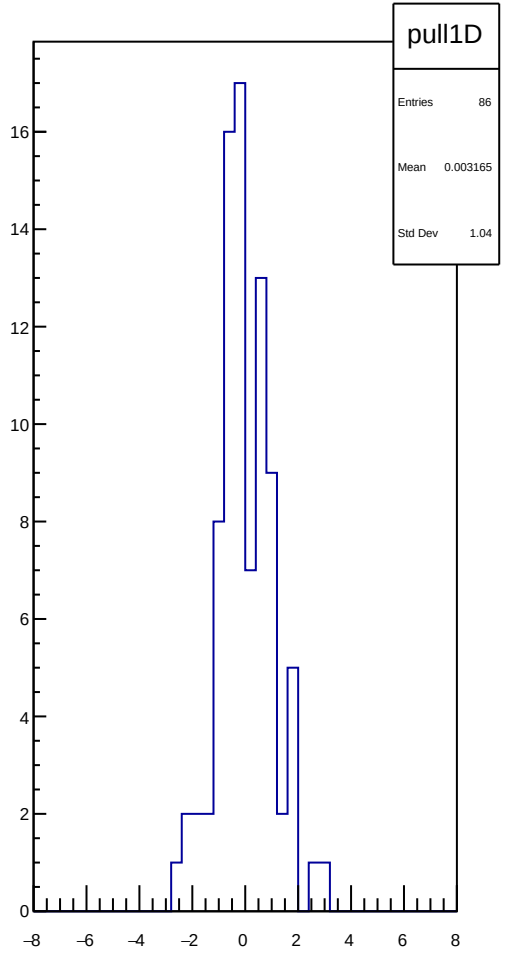

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 4404 / 85
p0 4844 ± 3.812
5600
5400
5200
5000
4800
4600
4400

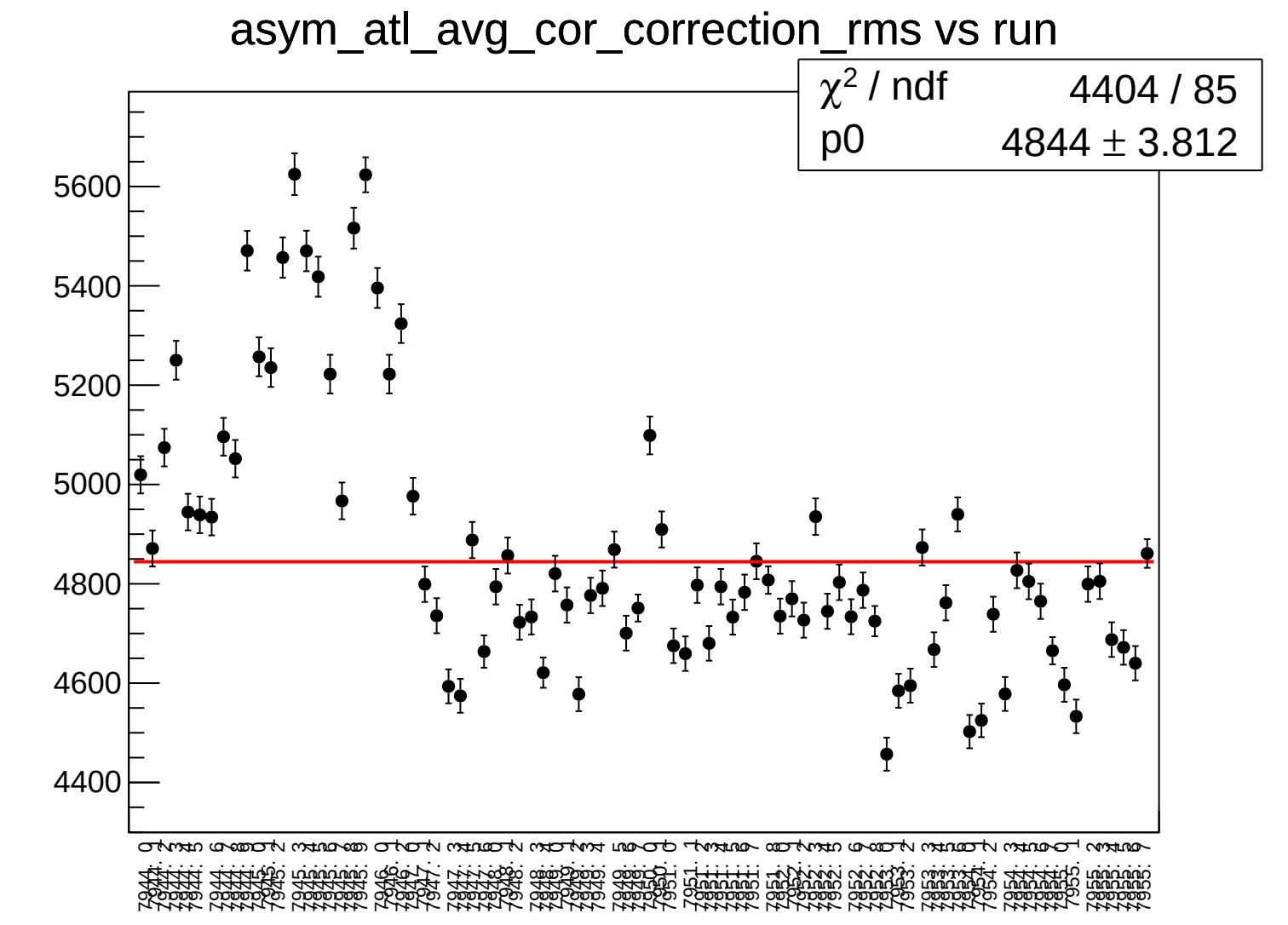

cor_asym_atl_avg_mean vs run
χ² / ndf 88.66 / 85
p0 1570 ± 1814
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −607.7
Std Dev 0
3
2
1
0
−1
−2

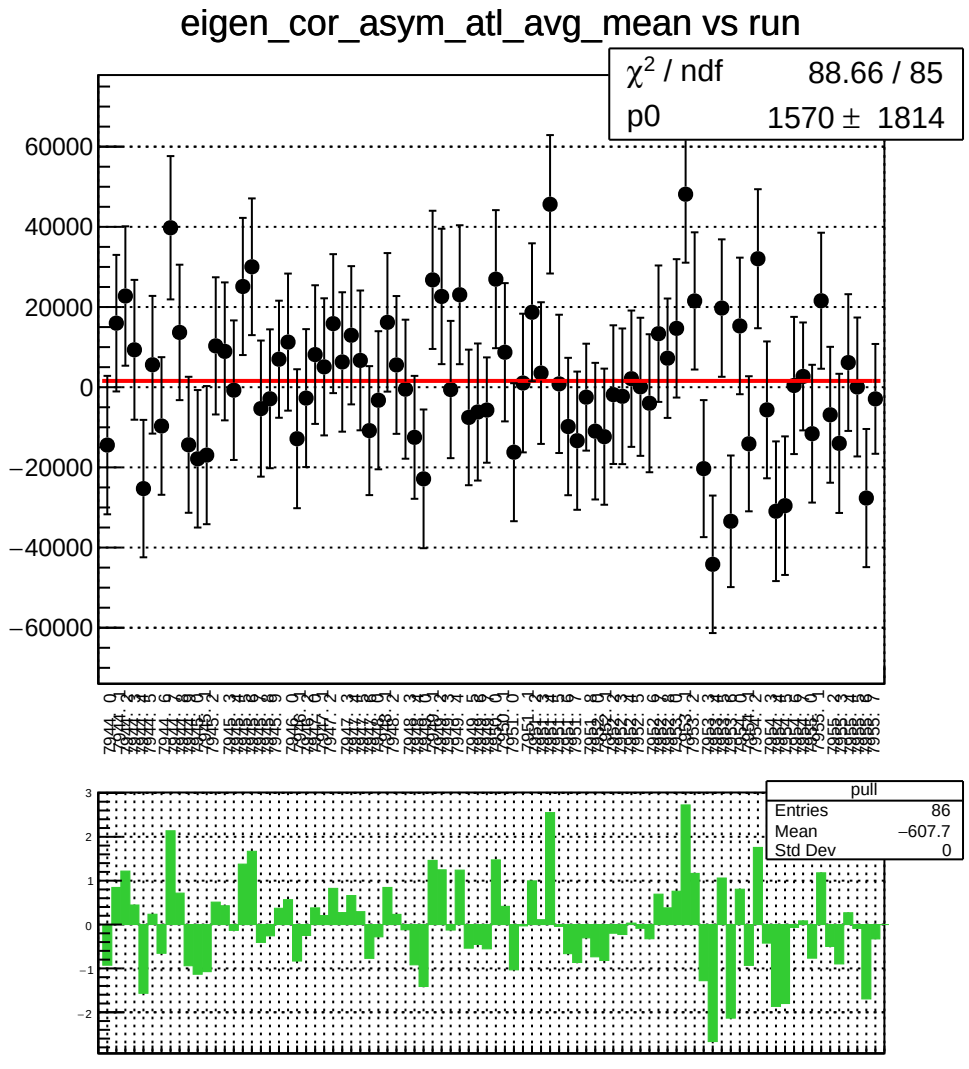

pull1D
Entries 86
Mean 0.006155
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

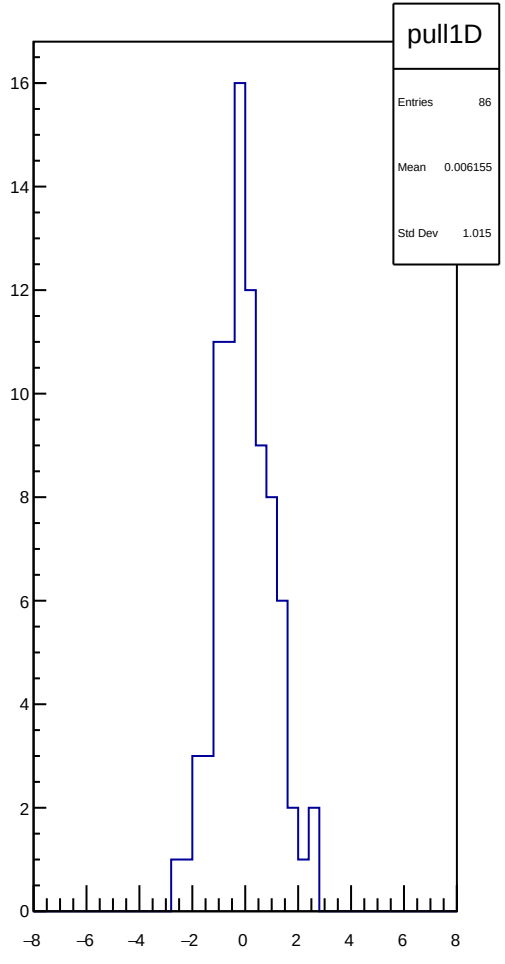

cor_asym_atl_avg_rms vs run
χ² / ndf 161.3 / 85
p0 1632 ± 1.283
1720
1700
1680
1660
1640
1620
1600
1580

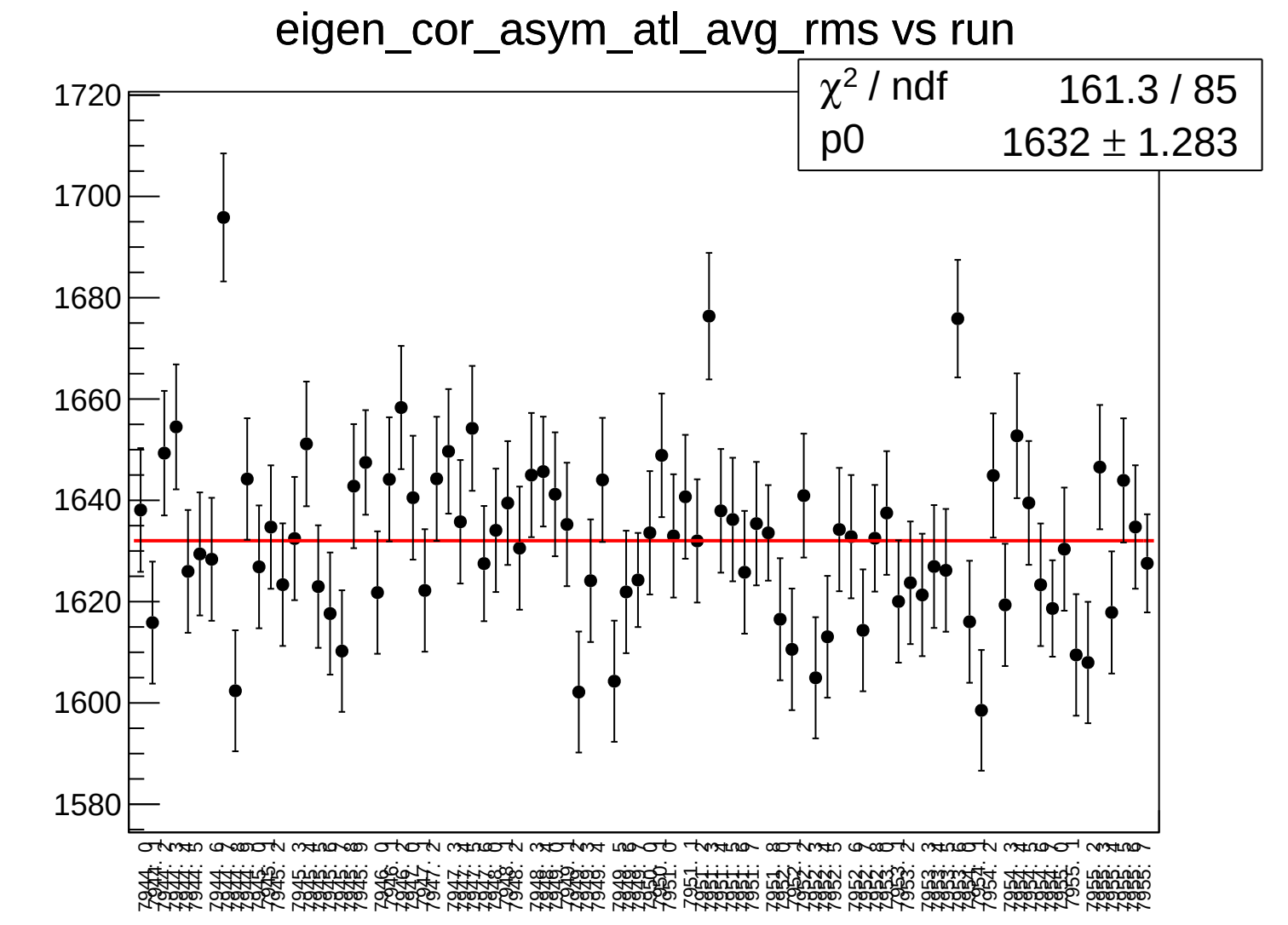

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 93.03 / 85
p0 −2726 ± 5391
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −270.1
Std Dev 0
3
2
1
0
−1
−2

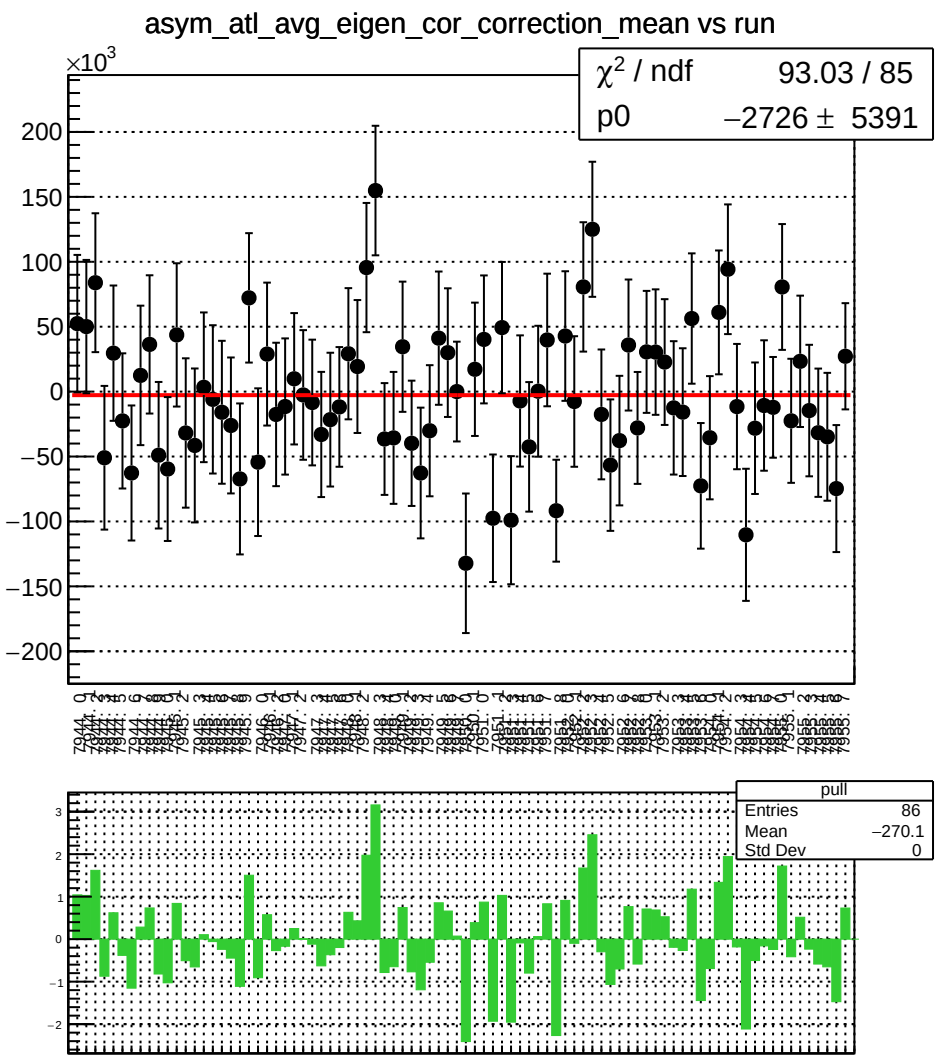

pull1D
Entries 86
Mean 0.003165
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

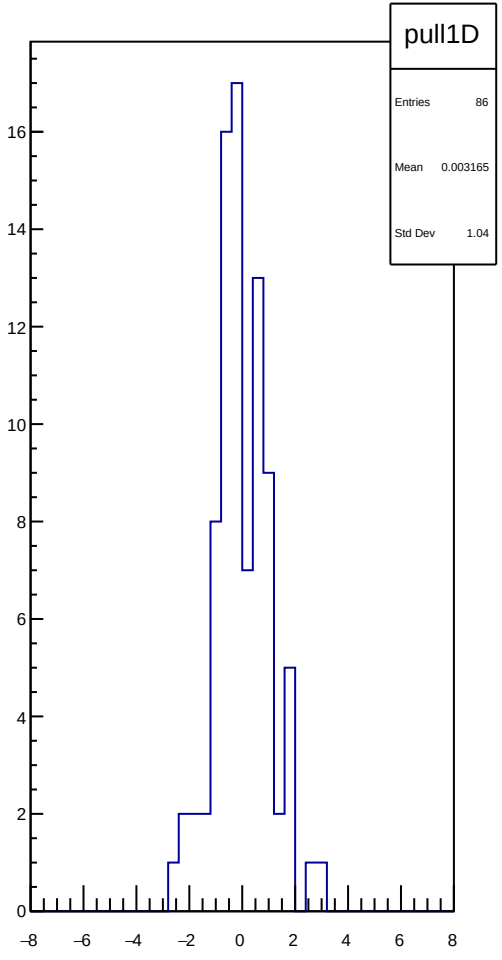

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 4404 / 85
p0 4844 ± 3.812
5600
5400
5200
5000
4800
4600
4400

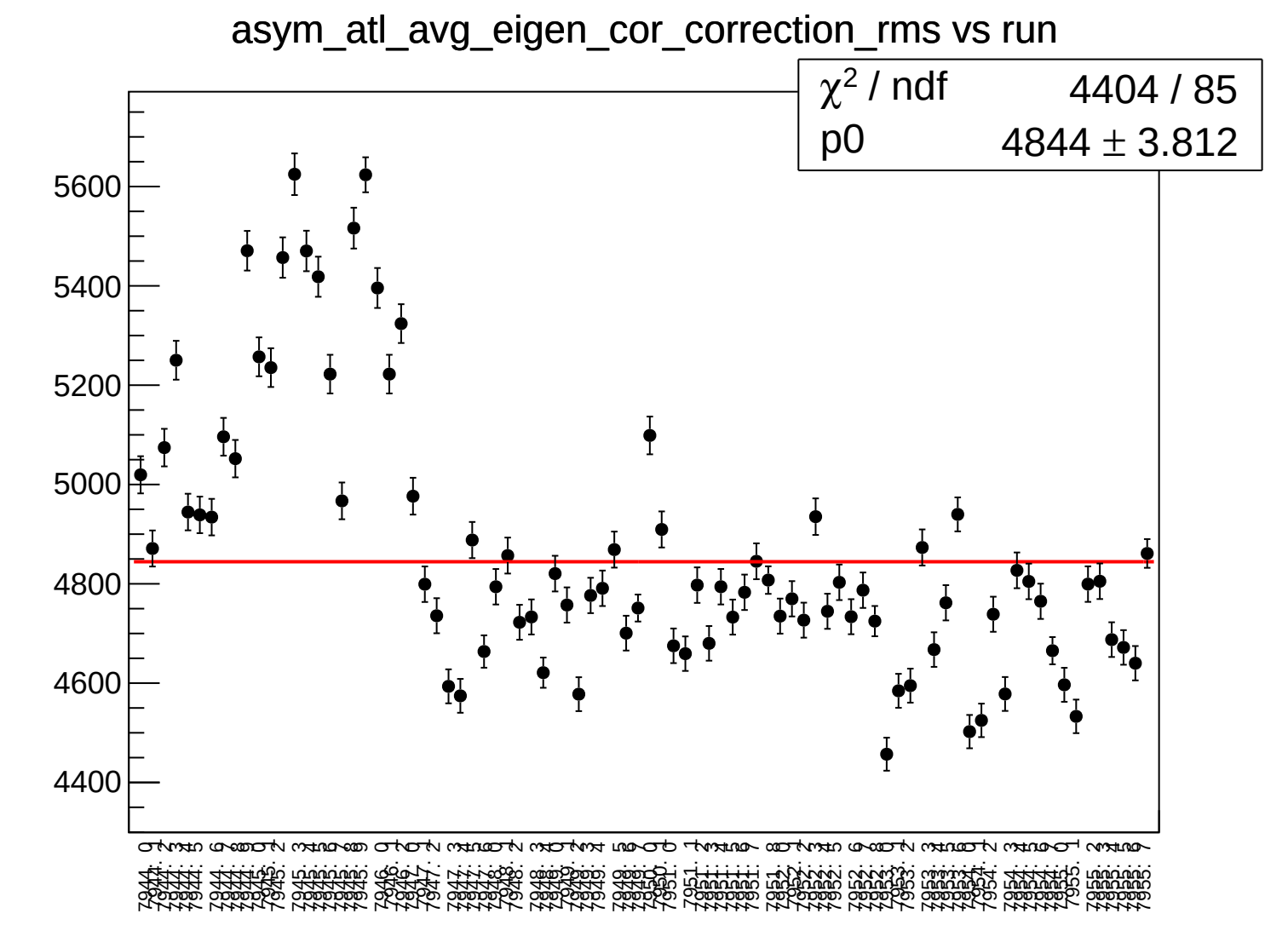

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 88.66 / 85
p0 1570 ± 1814
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −607.7
Std Dev 0
3
2
1
0
−1
−2

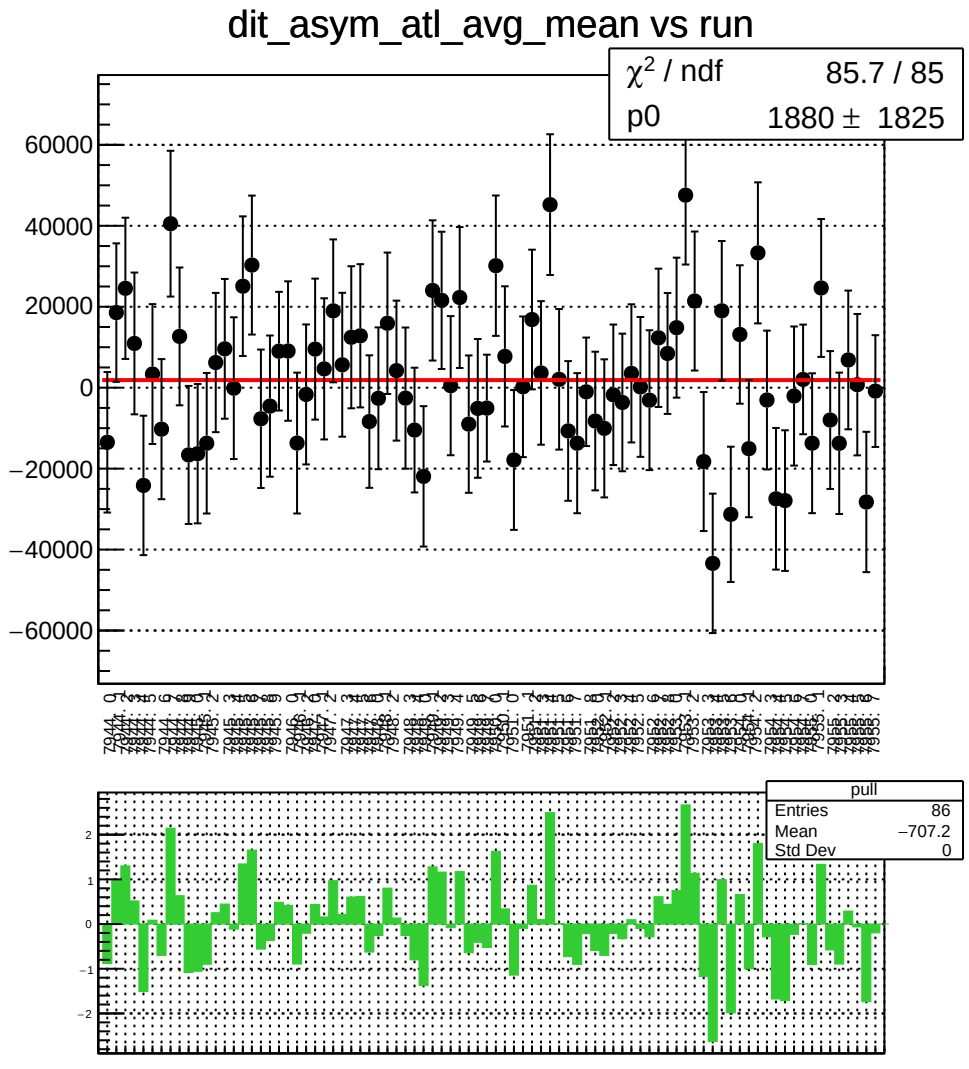

pull1D
Entries 86
Mean 0.006155
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

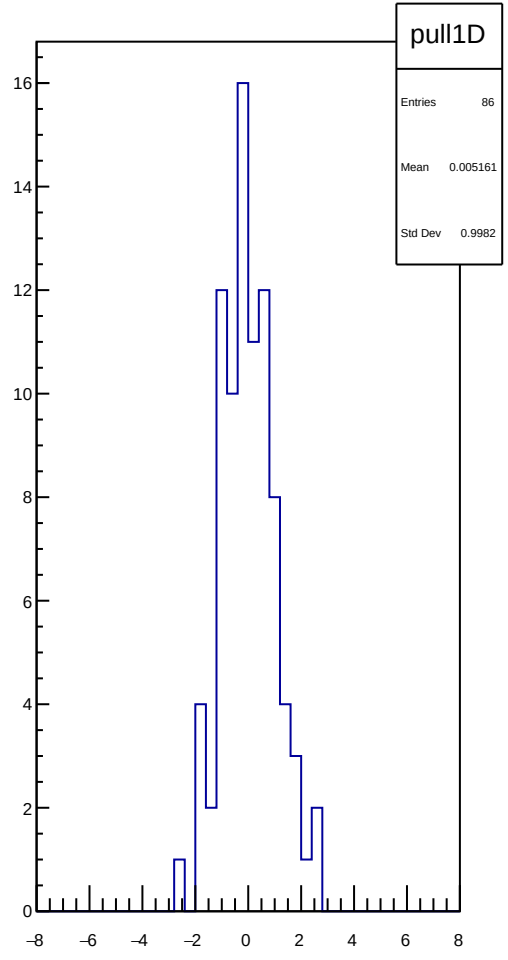

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 161.3 / 85
p0 1632 ± 1.283
1720
1700
1680
1660
1640
1620
1600
1580

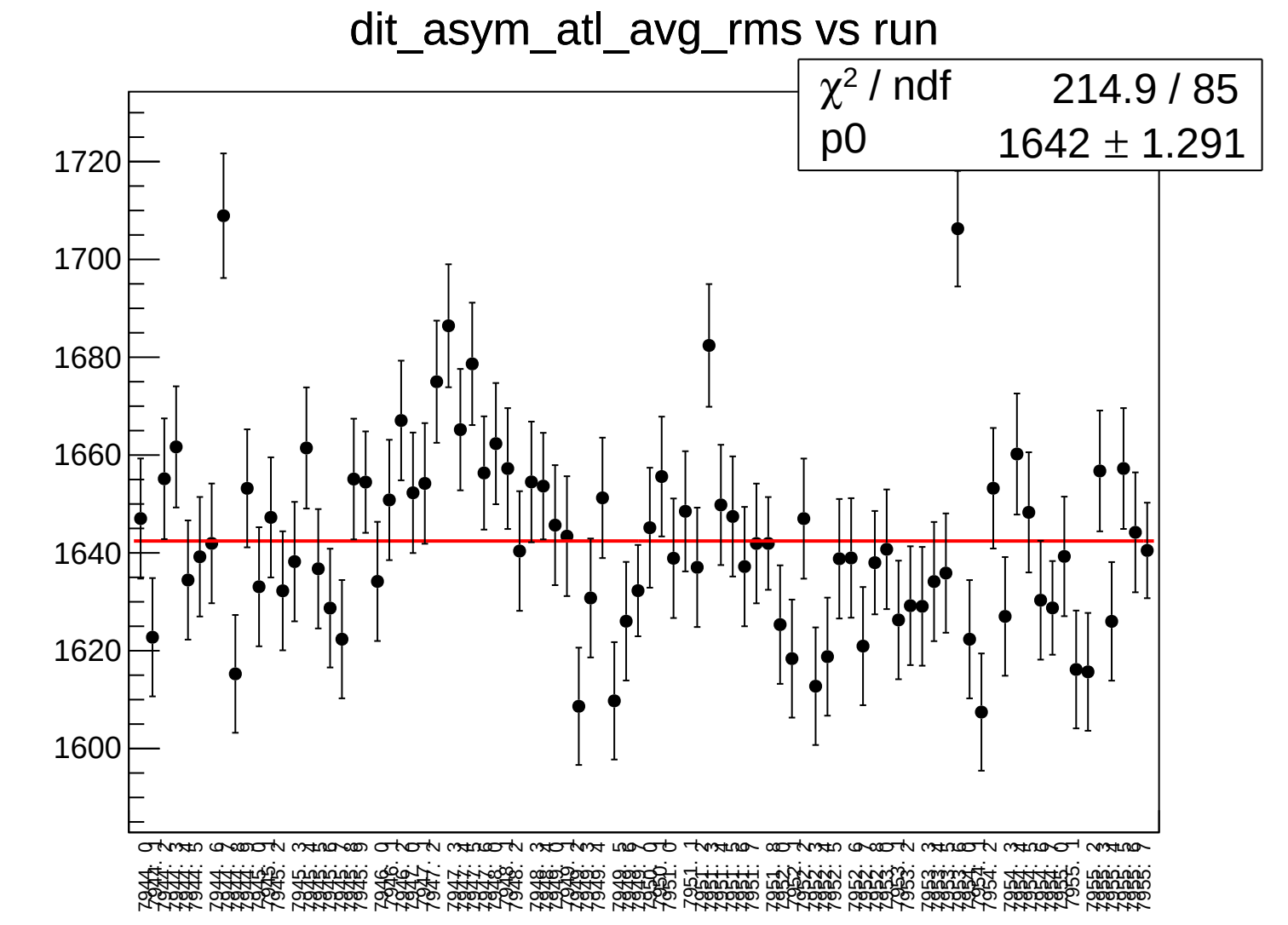

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.03 / 85
p0 −2726 ± 5391
pull
Entries 86
Mean −270.1
Std Dev 0

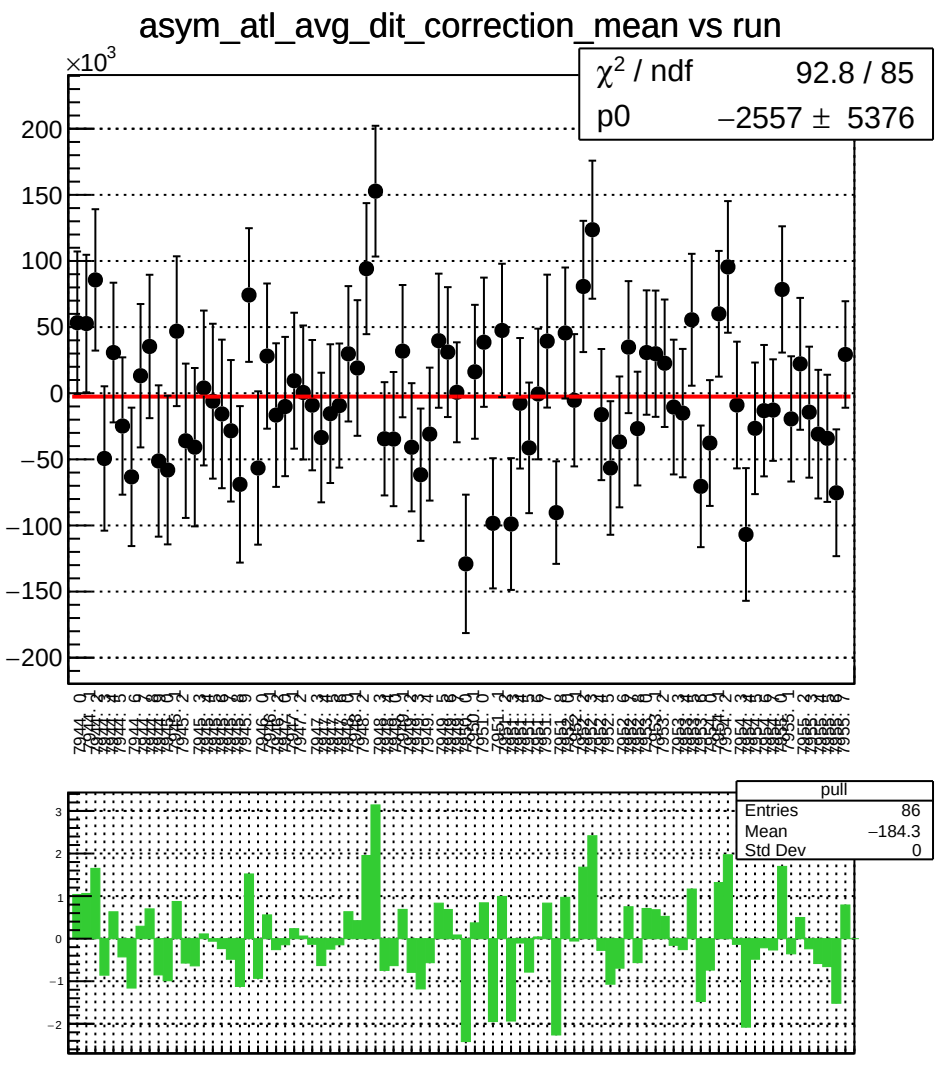

pull1D
Entries 86
Mean 0.003165
Std Dev 1.04

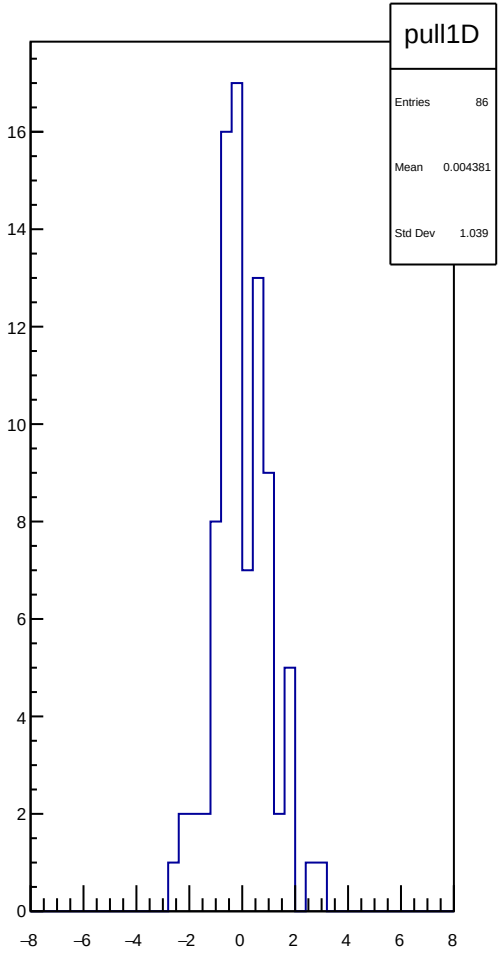

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 4404 / 85
p0 4844 ± 3.812
5600
5400
5200
5000
4800
4600
4400

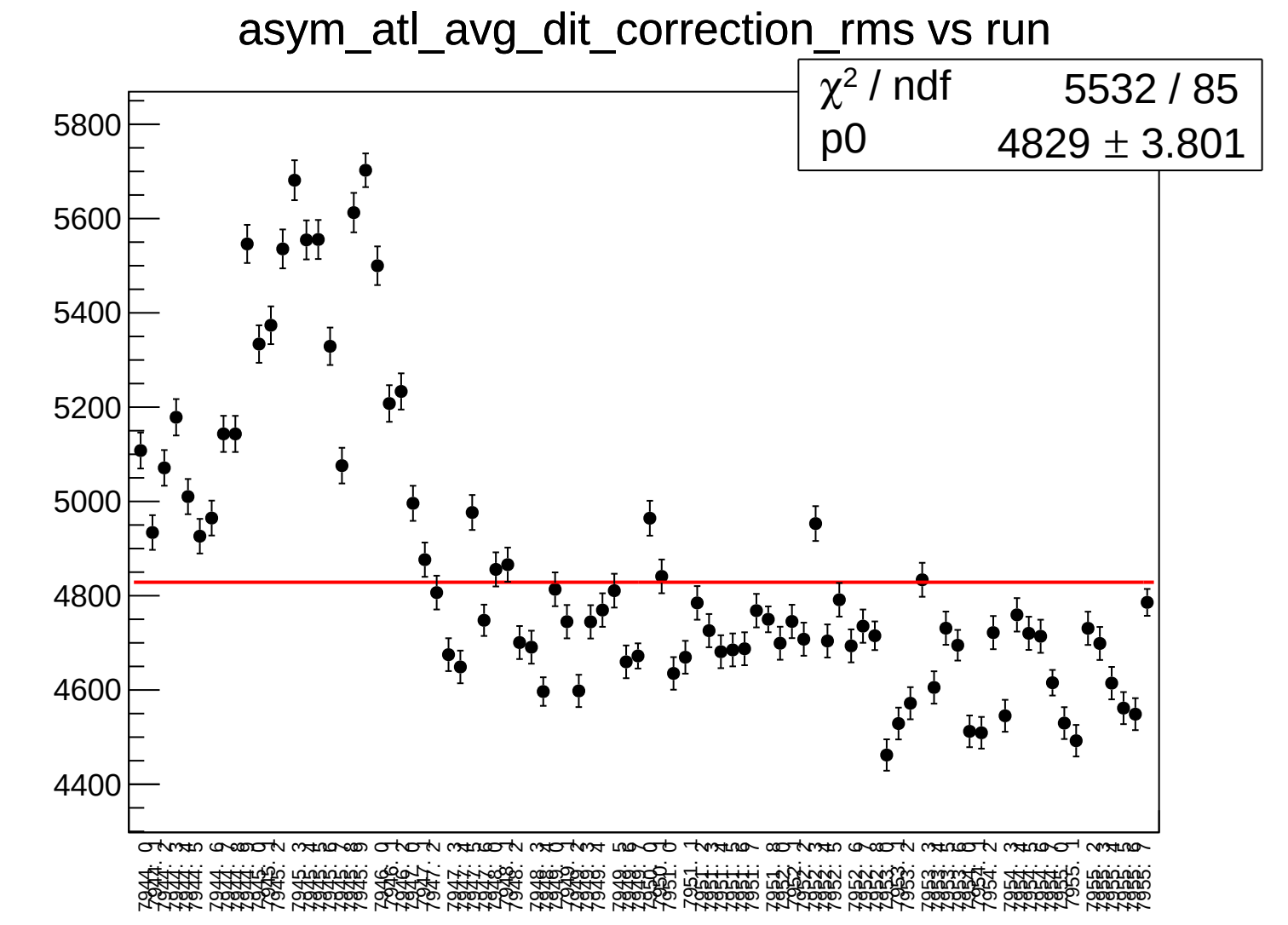

dit_asym_atl_avg_mean vs run
χ² / ndf 85.7 / 85
p0 1880 ± 1825
pull
Entries 86
Mean −707.2
Std Dev 0

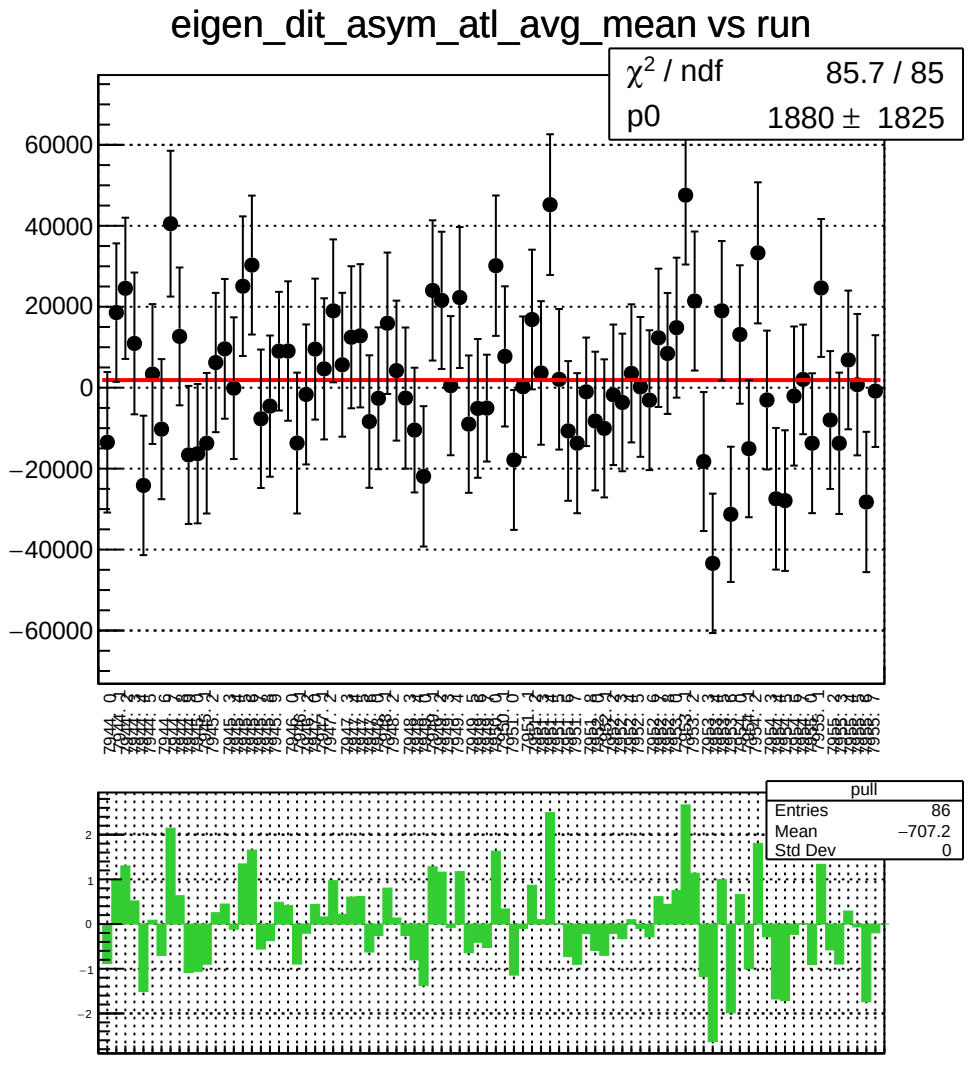

pull1D
Entries 86
Mean 0.005161
Std Dev 0.9982

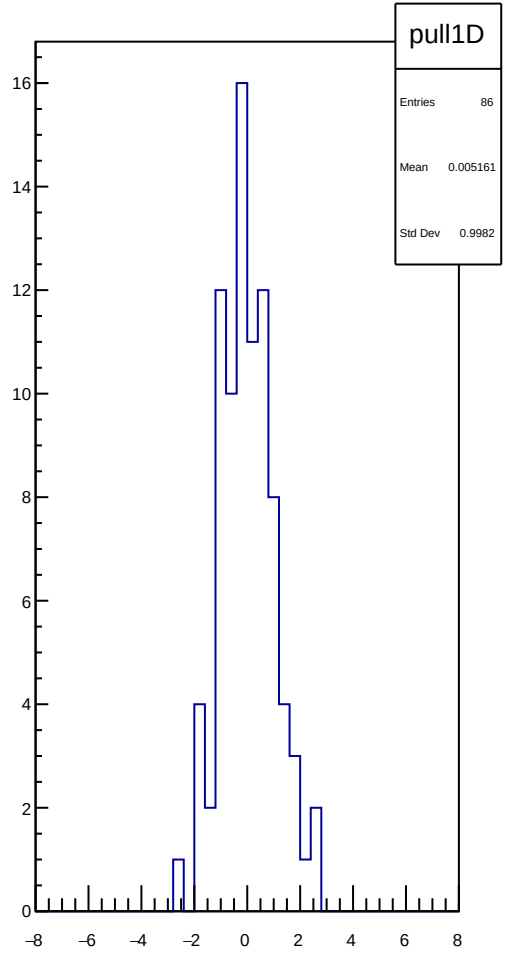

dit_asym_atl_avg_rms vs run
χ² / ndf 214.9 / 85
p0 1642 ± 1.291
1720
1700
1680
1660
1640
1620
1600

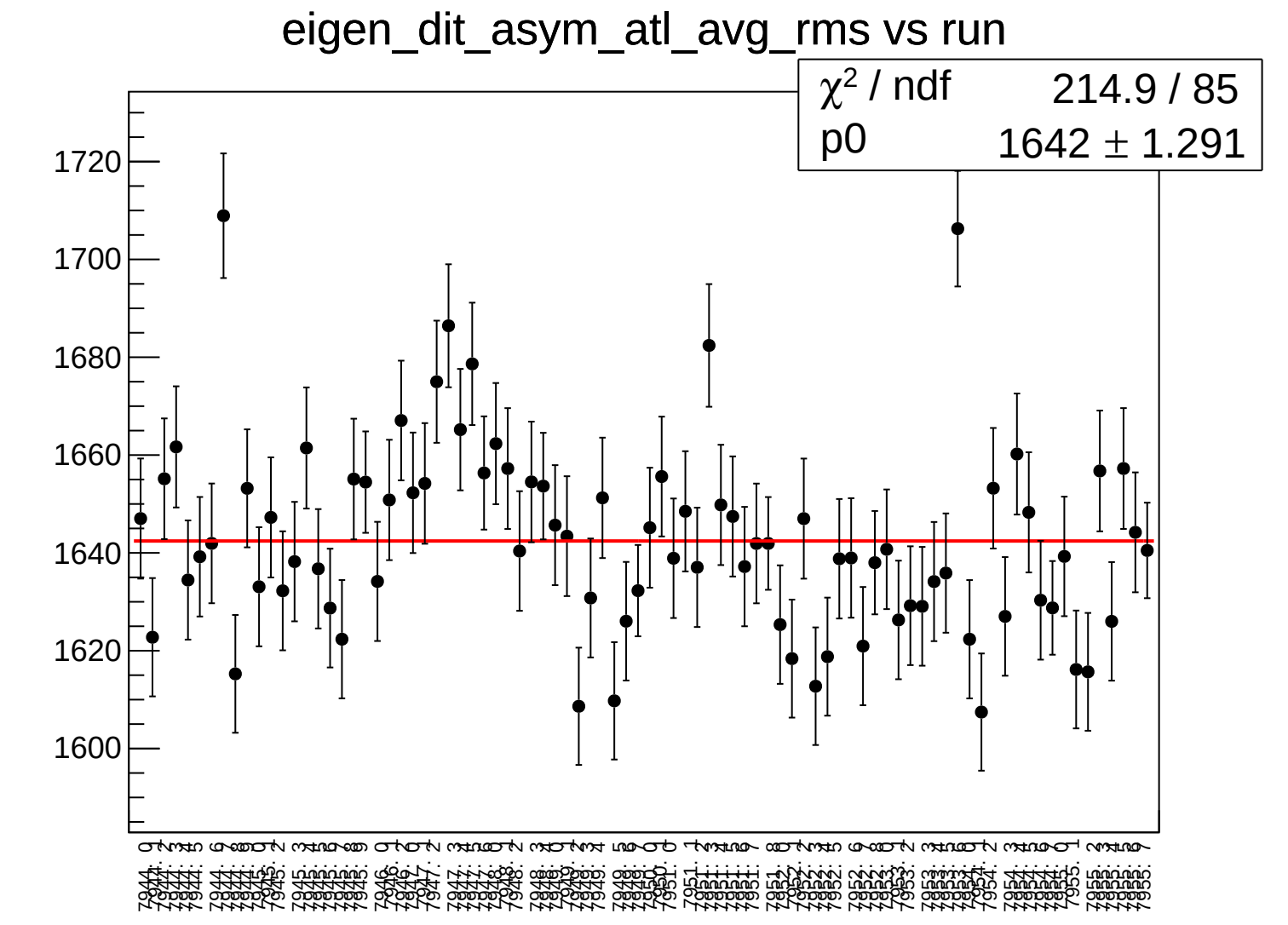

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 92.8 / 85
p0 −2557 ± 5376
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −184.3
Std Dev 0
3
2
1
0
−1
−2

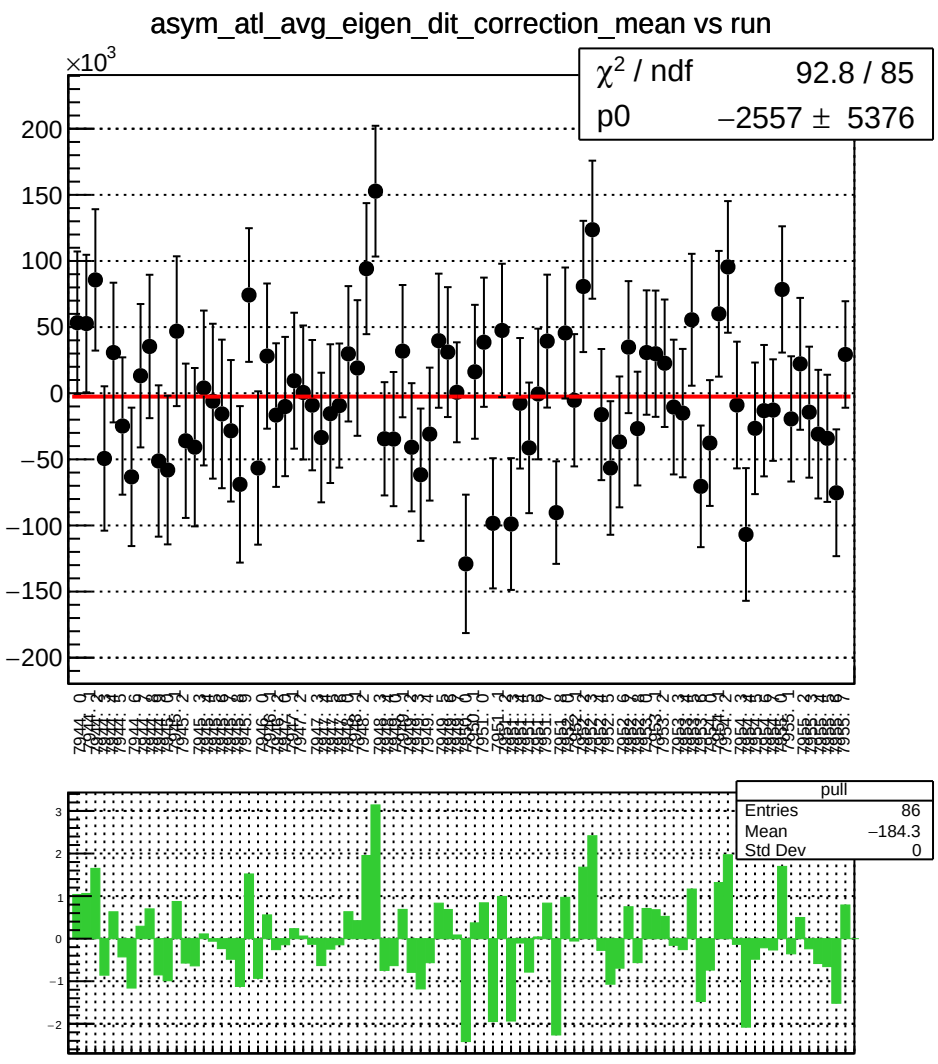

pull1D
Entries 86
Mean 0.004381
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

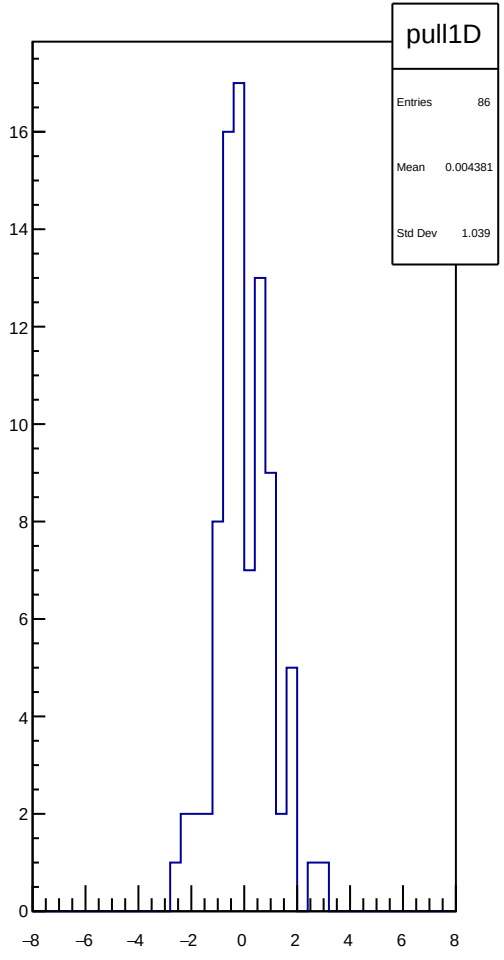

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 5532 / 85
p0 4829 ± 3.801
5800
5600
5400
5200
5000
4800
4600
4400

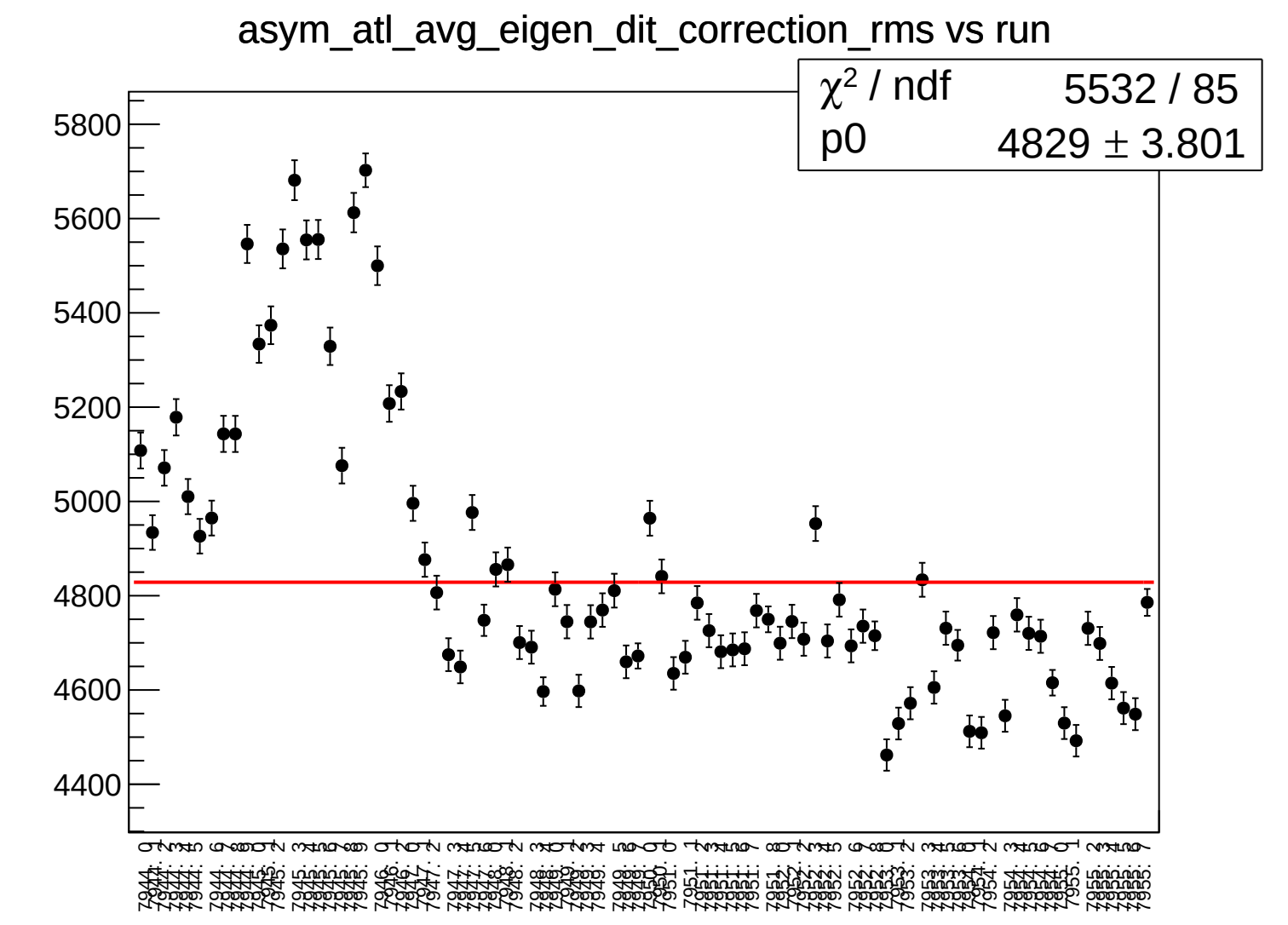

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 85.7 / 85
p0 1880 ± 1825
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −707.2
Std Dev 0
2
1
0
−1
−2

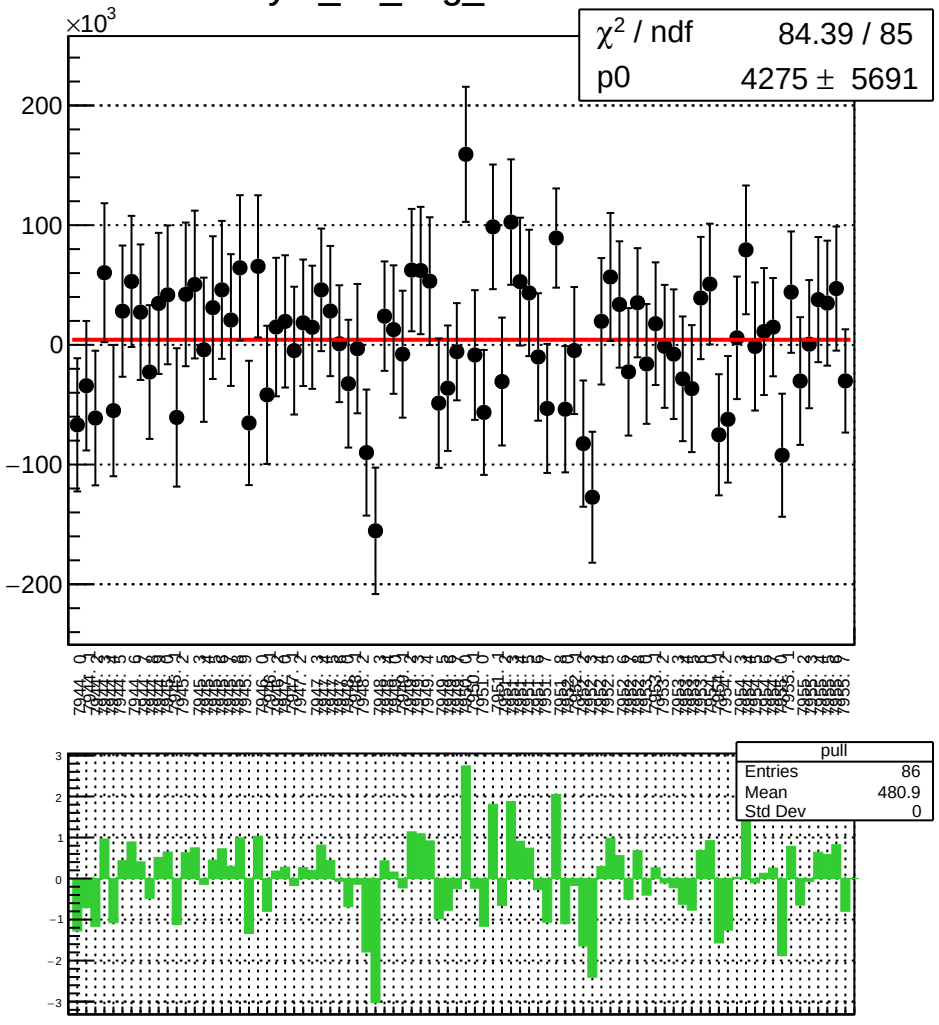

pull1D
Entries 86
Mean 0.005161
Std Dev 0.9982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

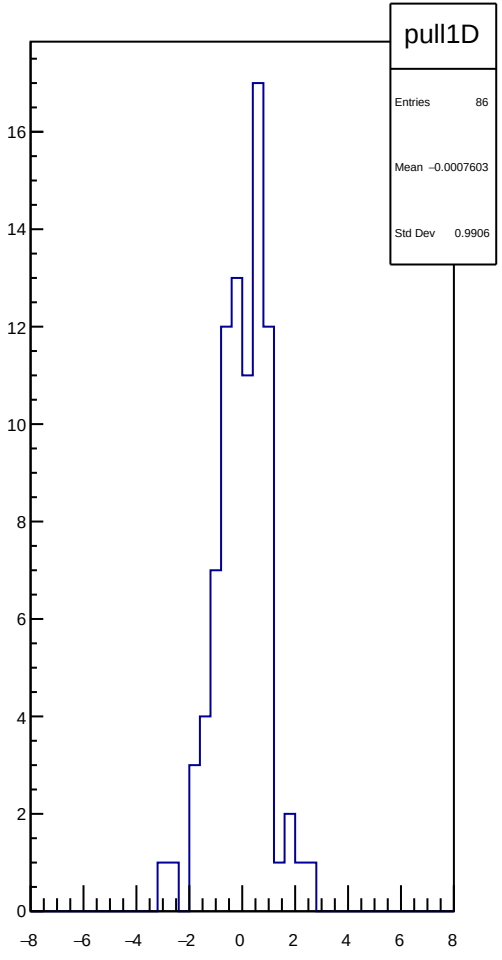

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 214.9 / 85
p0 1642 ± 1.291
1720
1700
1680
1660
1640
1620
1600

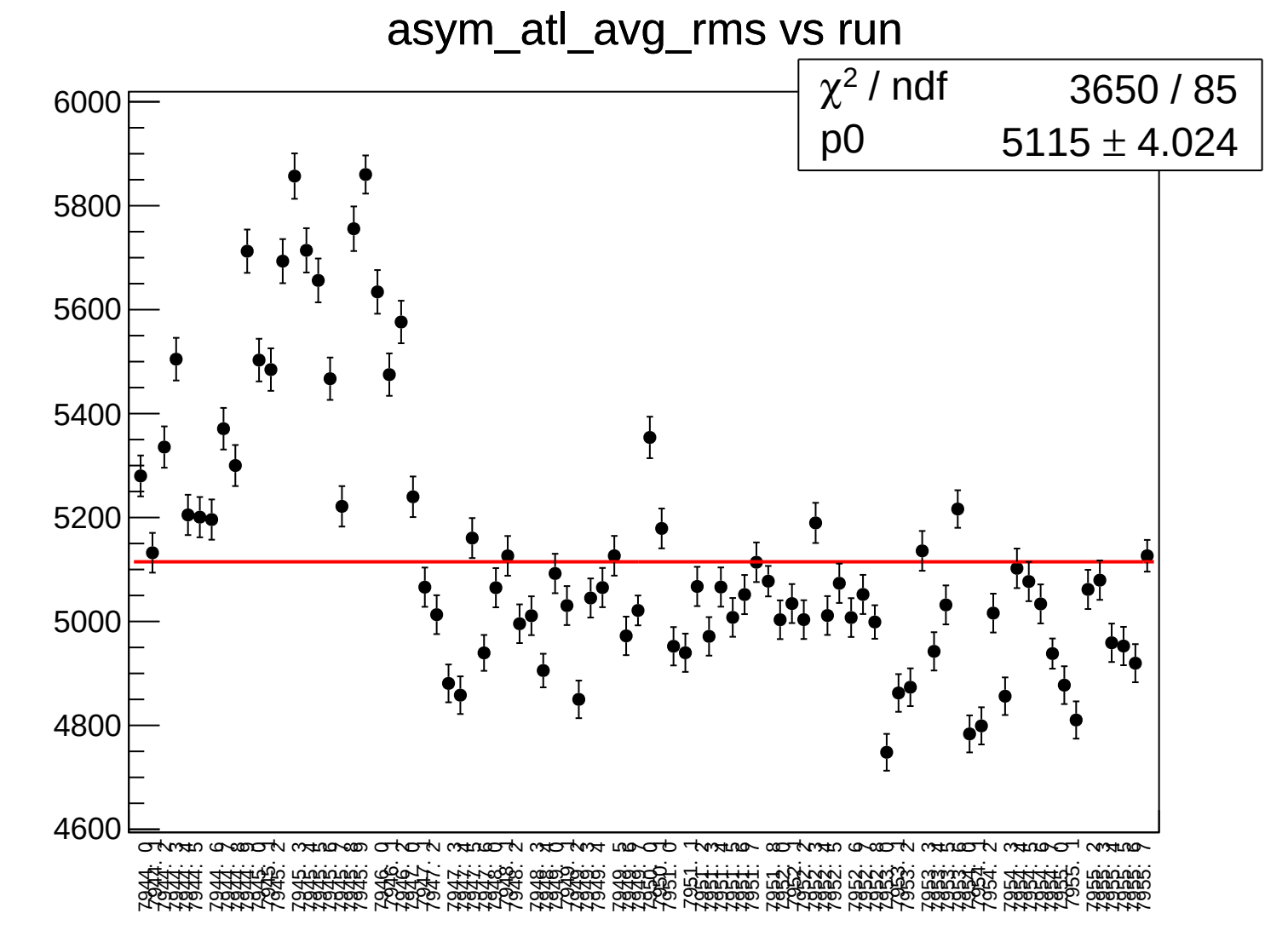

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.8 / 85
p0 −2557 ± 5376
pull
Entries 86
Mean −184.3
Std Dev 0

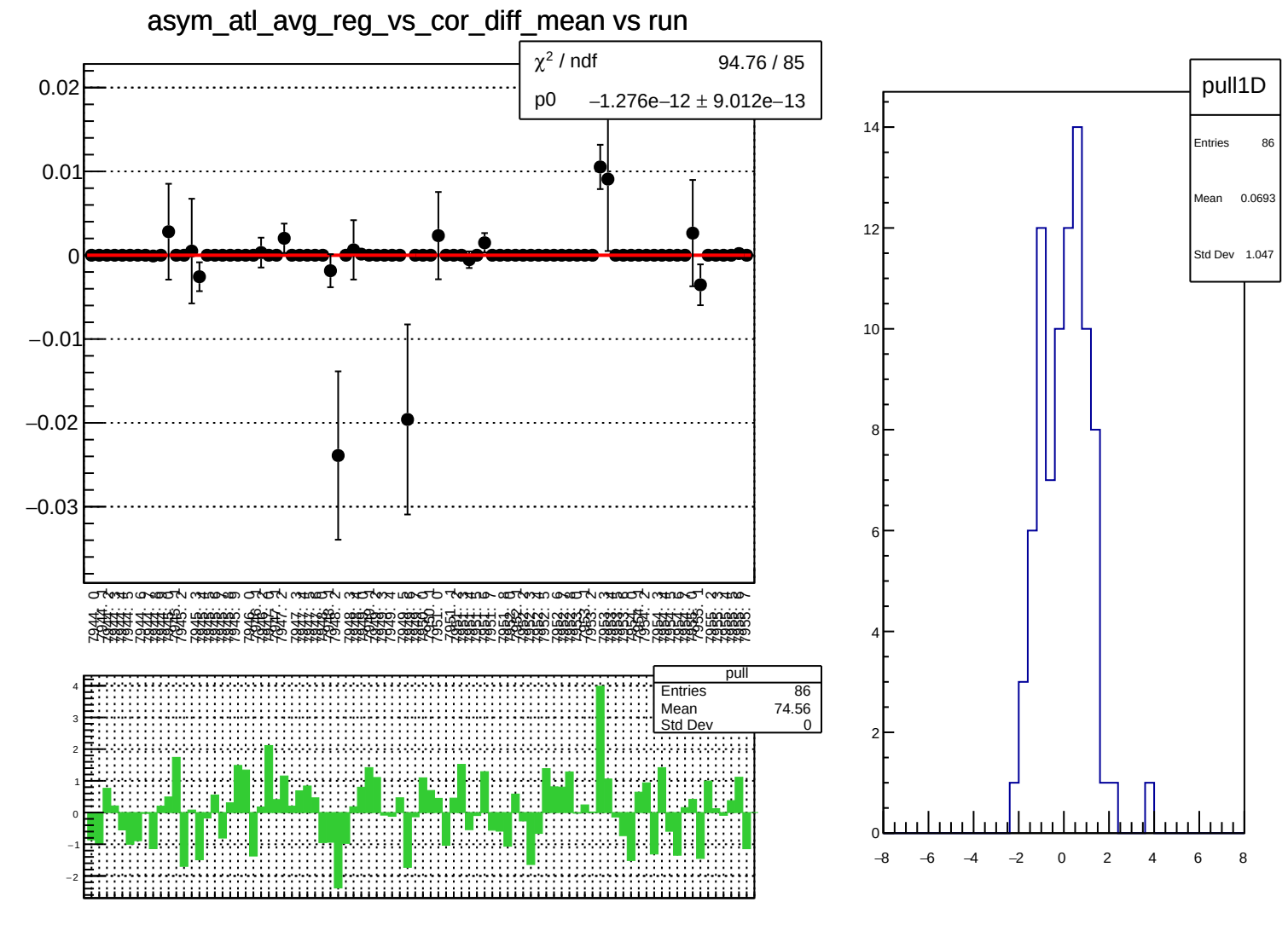

pull1D
Entries 86
Mean 0.004381
Std Dev 1.039

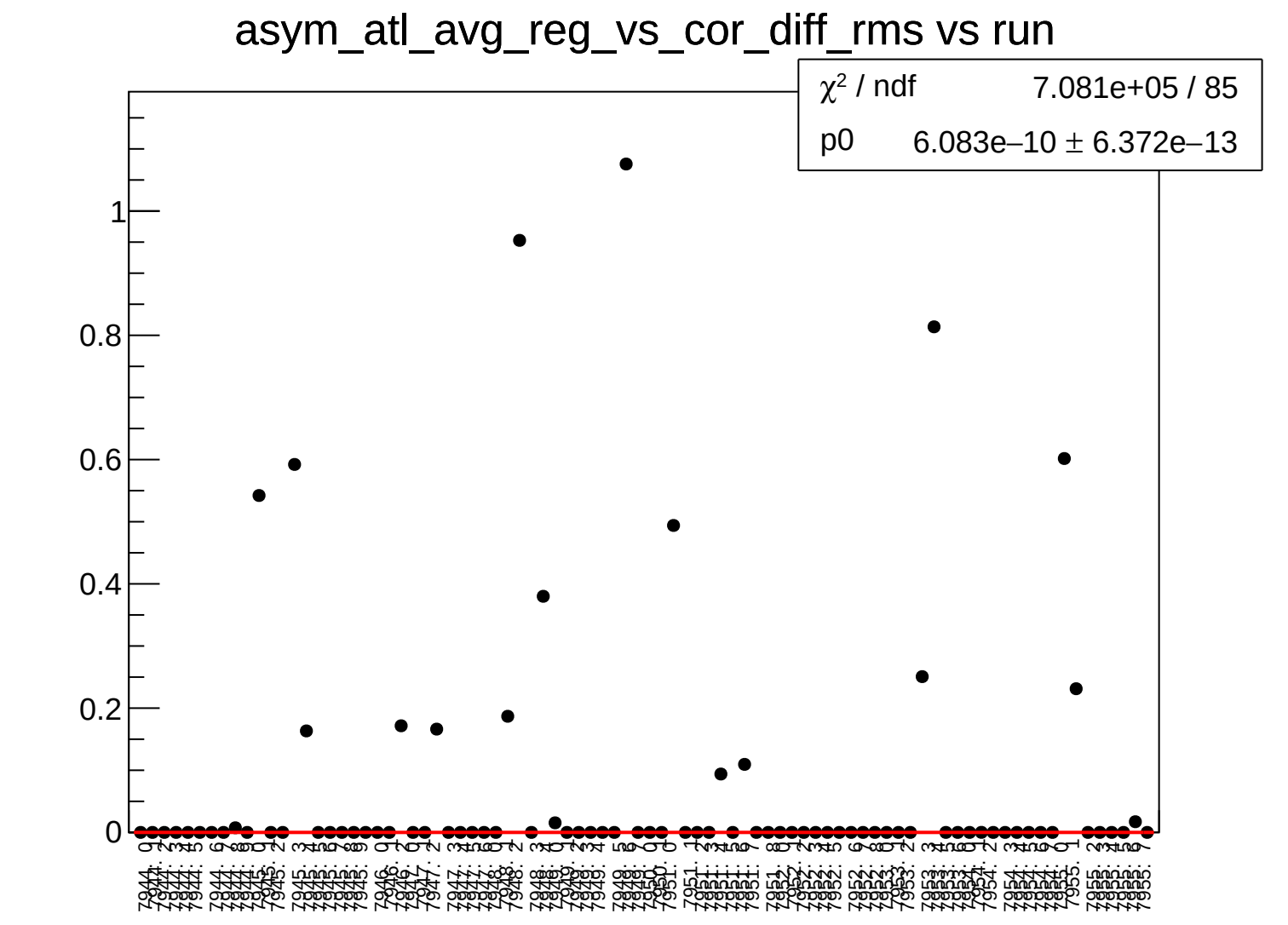

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 5532 / 85
p0 4829 ± 3.801
5800
5600
5400
5200
5000
4800
4600
4400

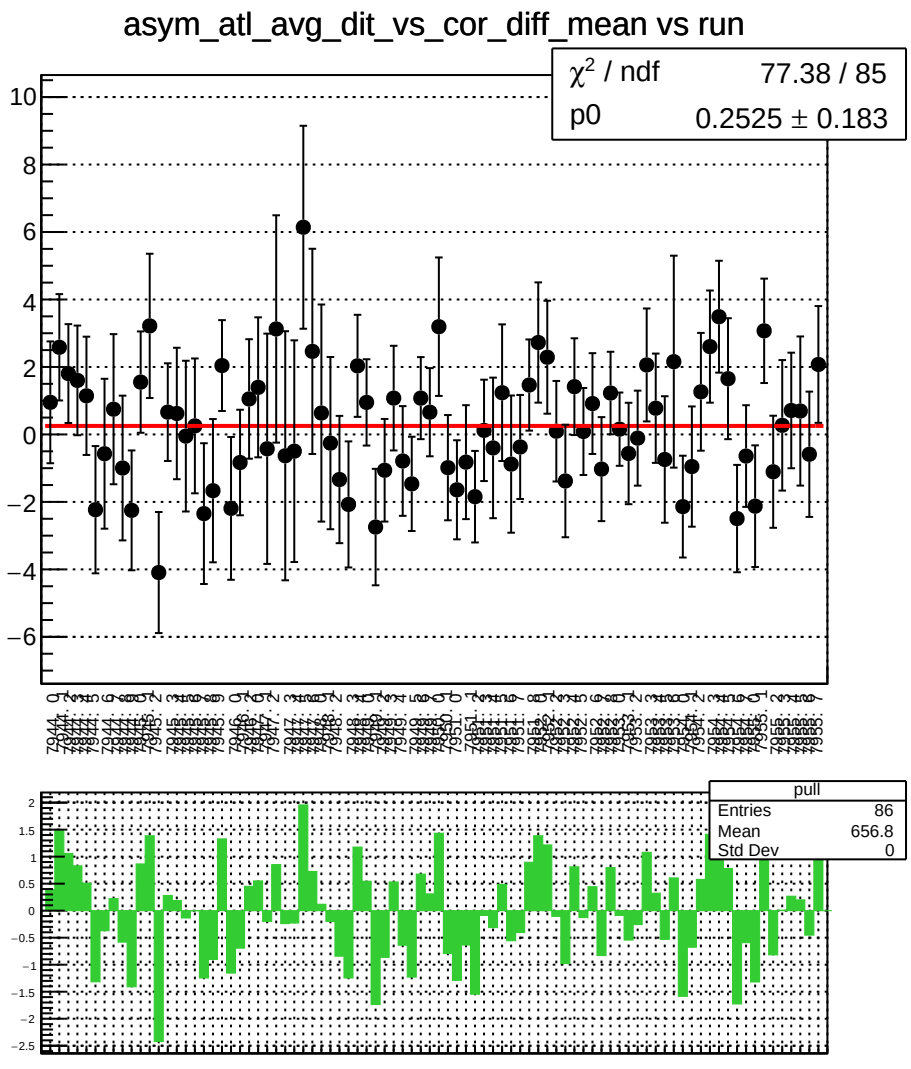

asym_atl_avg_mean vs run
×10^3
χ² / ndf 84.39 / 85
p0 4275 ± 5691
200
100
0
−100
−200
pull
Entries 86
Mean 480.9
Std Dev 0
3
2
1
0
−1
−2
−3

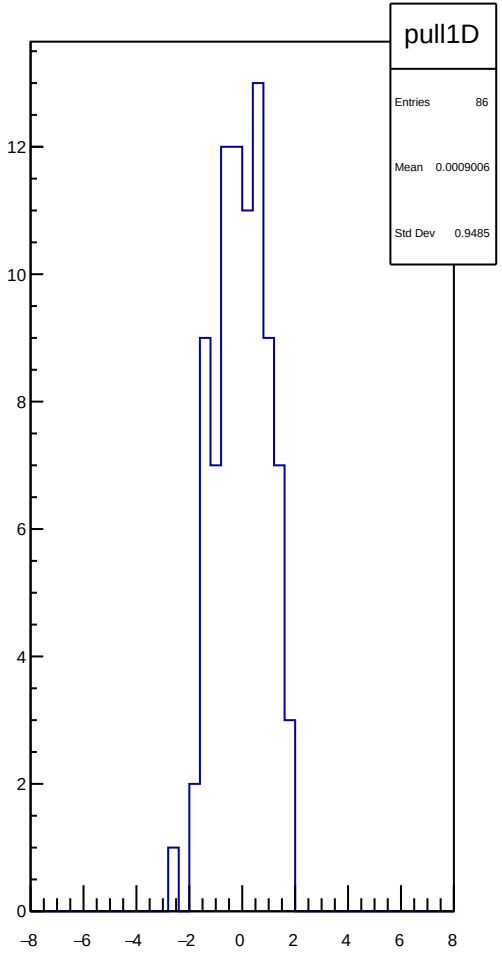

pull1D
Entries 86
Mean −0.0007603
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

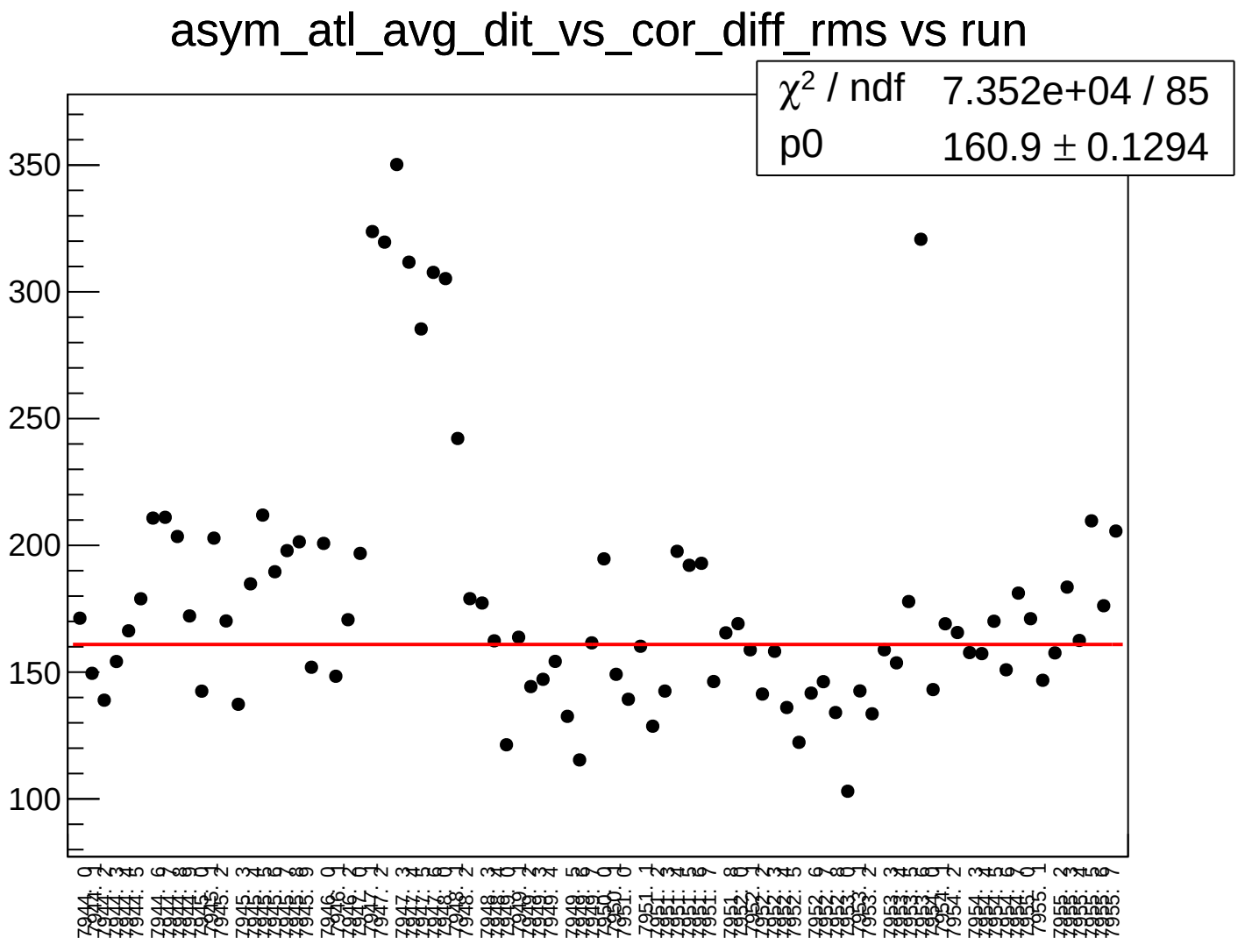

asym_atl_avg_rms vs run
χ² / ndf 3650 / 85
p0 5115 ± 4.024
6000
5800
5600
5400
5200
5000
4800
4600

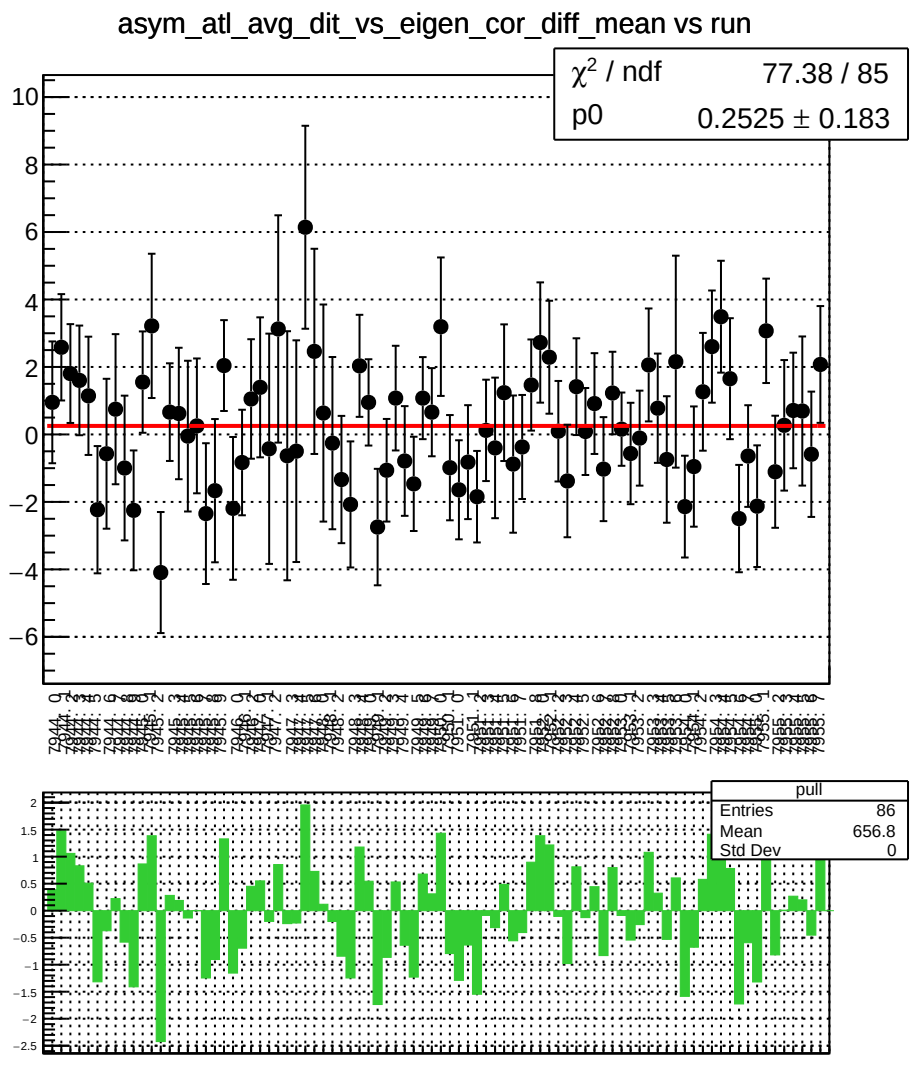

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.76 / 85
p0 −1.276e−12 ± 9.012e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 74.56
Std Dev 0
pull1D
Entries 86
Mean 0.0693
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

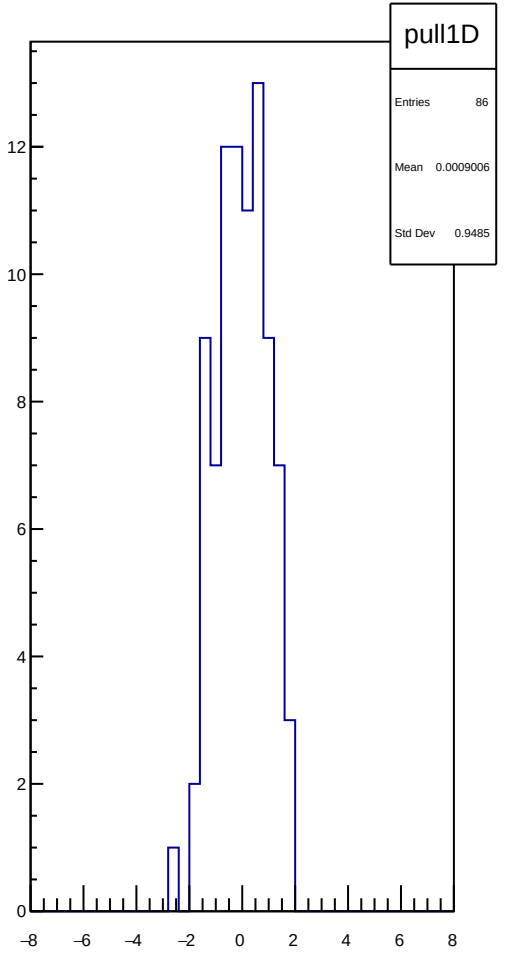

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.081e+05 / 85
p0 6.083e−10 ± 6.372e−13
1
0.8
0.6
0.4
0.2
0

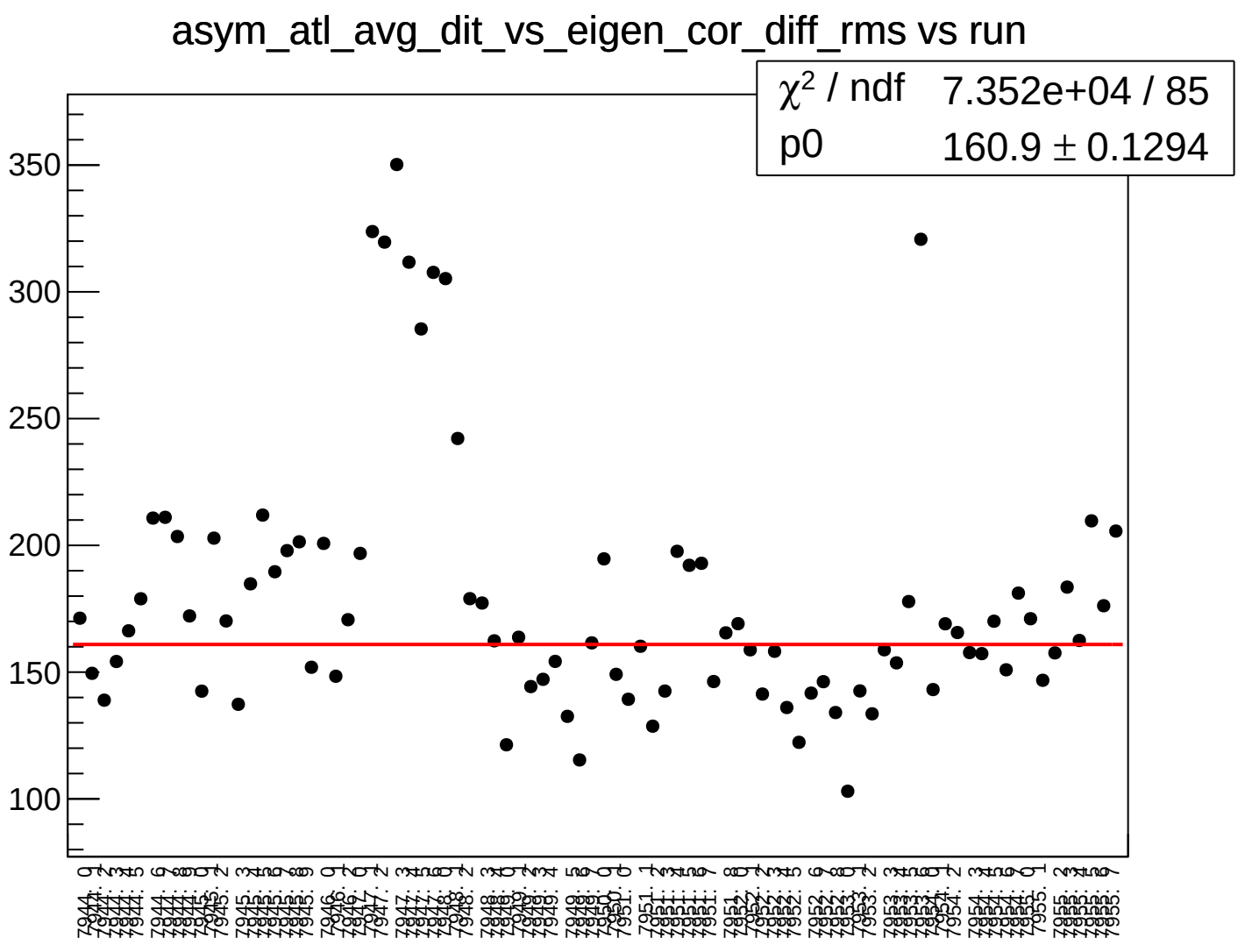

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.38 / 85
p0 0.2525 ± 0.183
pull
Entries 86
Mean 656.8
Std Dev 0

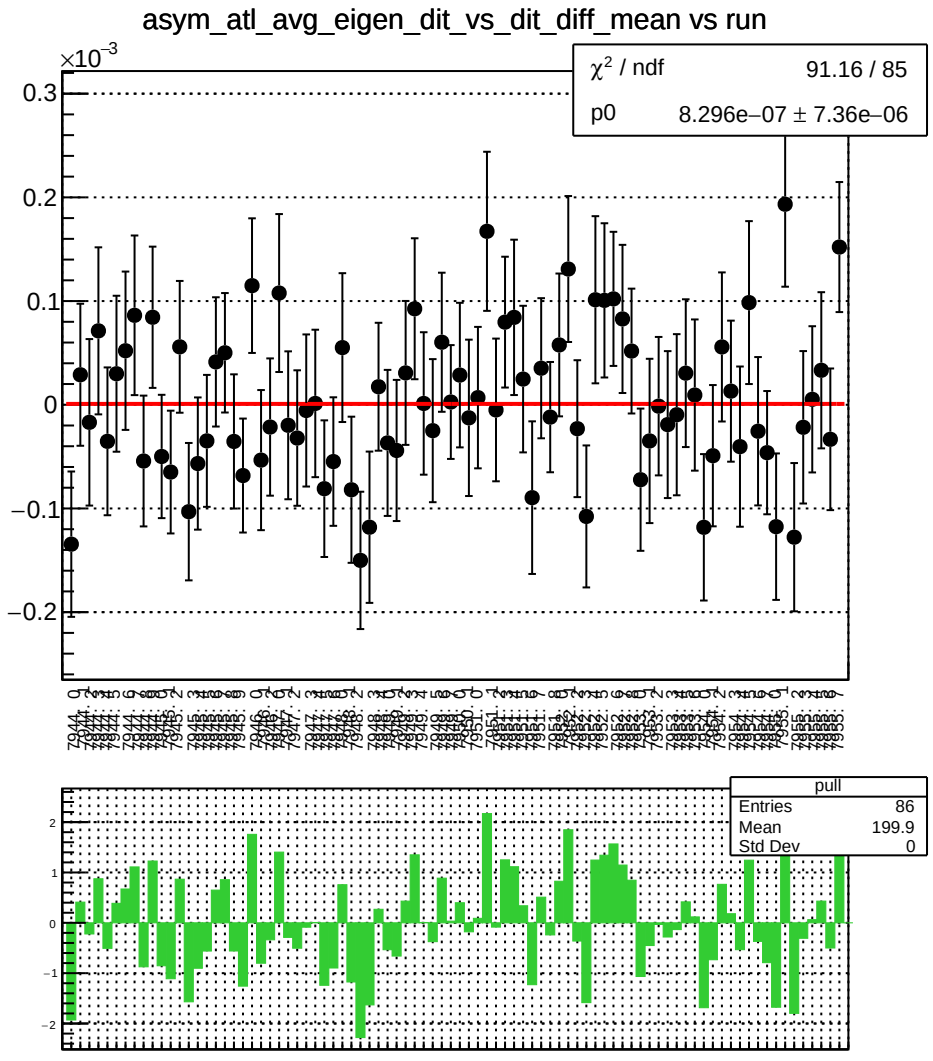

pull1D
Entries 86
Mean 0.0009006
Std Dev 0.9485

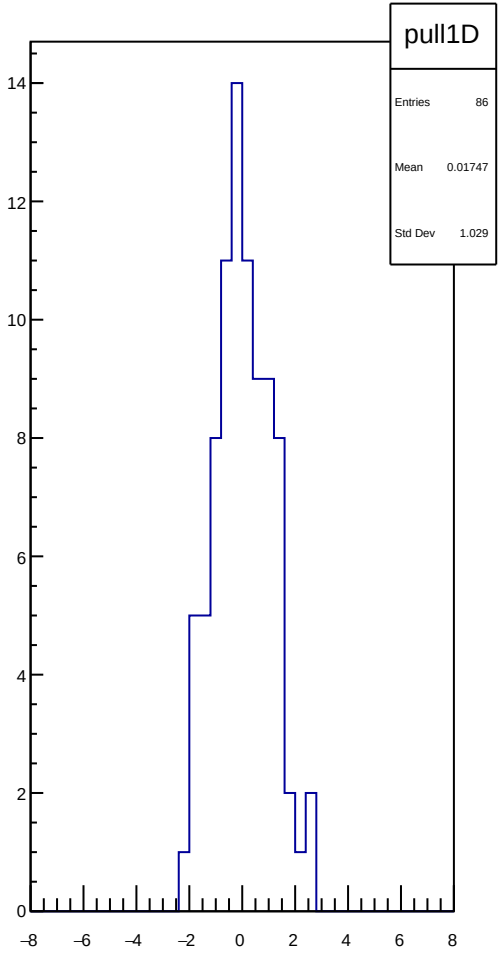

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.352e+04 / 85
p0 160.9 ± 0.1294
350
300
250
200
150
100

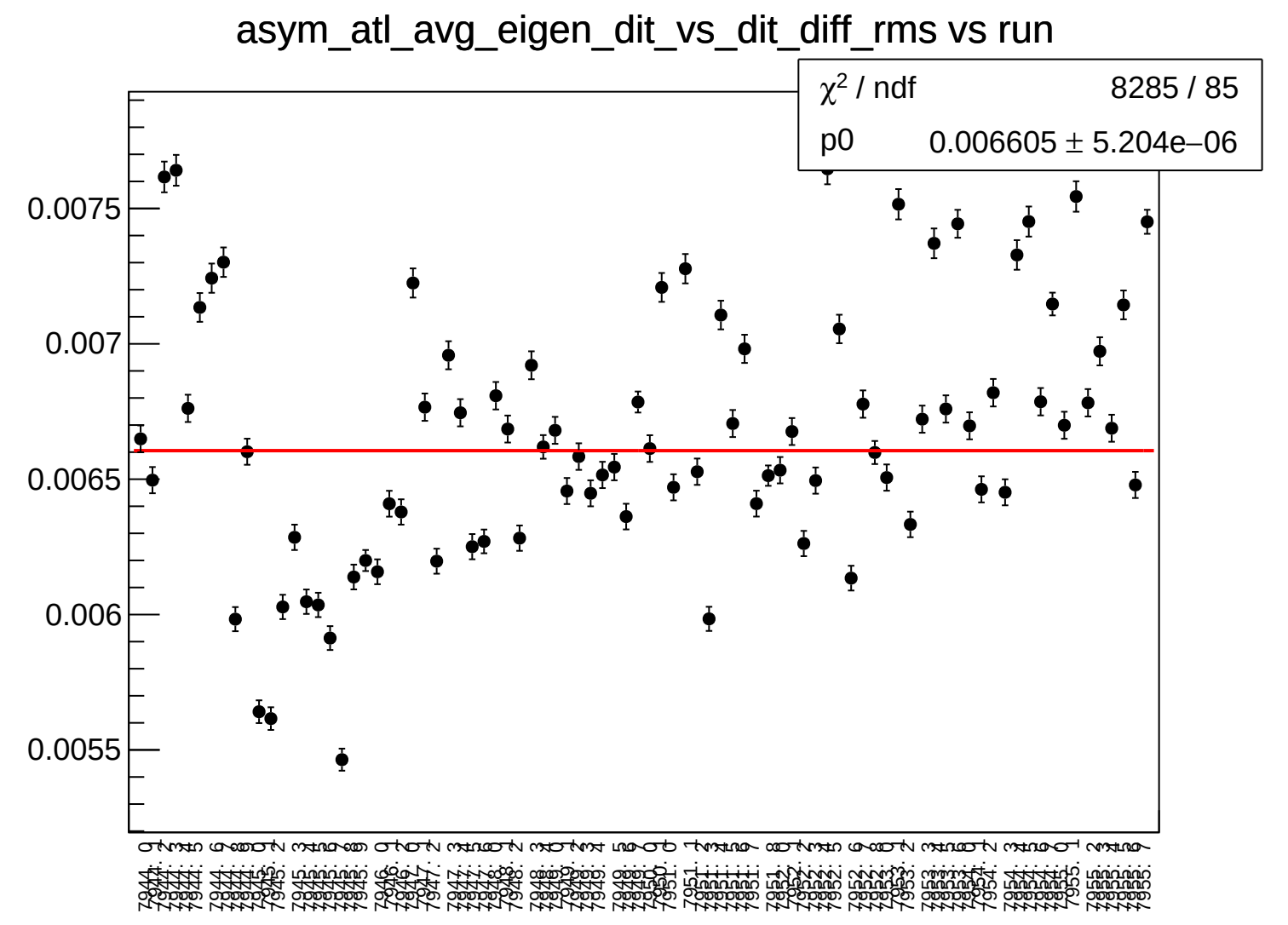

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.38 / 85
p0 0.2525 ± 0.183
pull
Entries 86
Mean 656.8
Std Dev 0

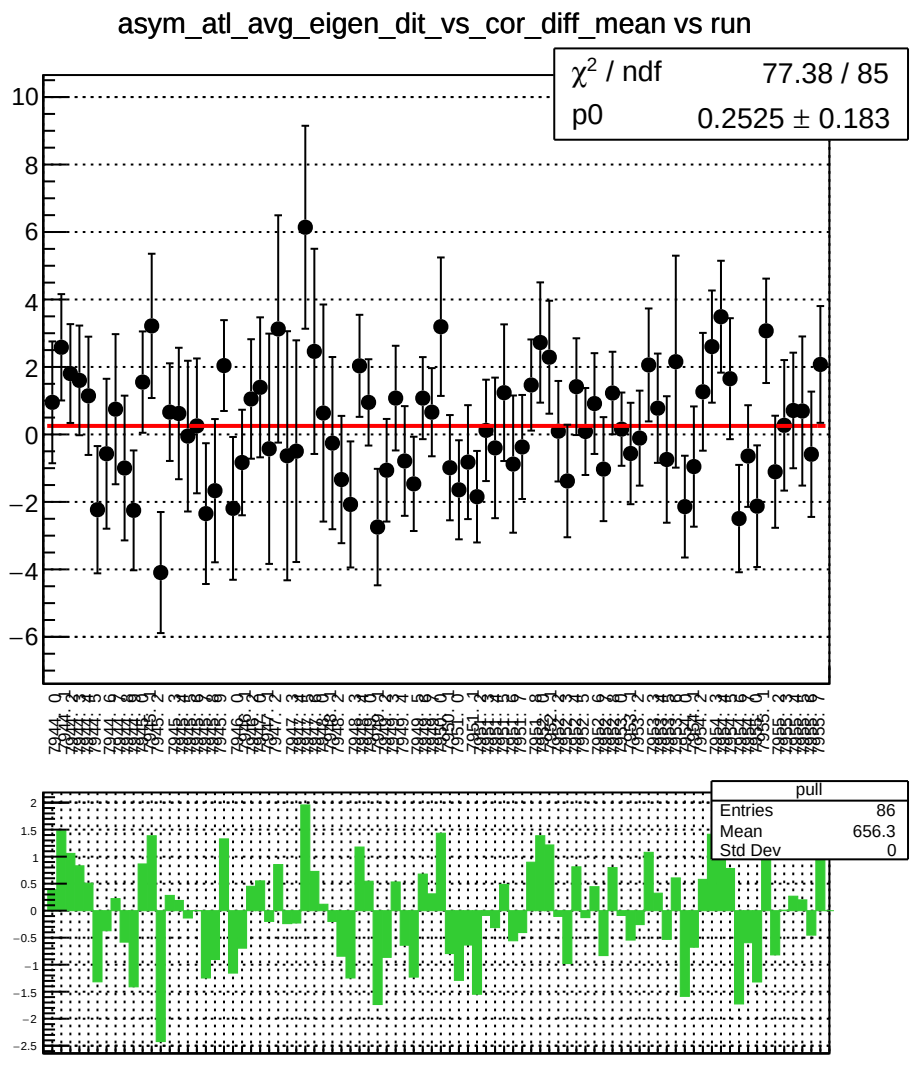

pull1D
Entries 86
Mean 0.0009006
Std Dev 0.9485

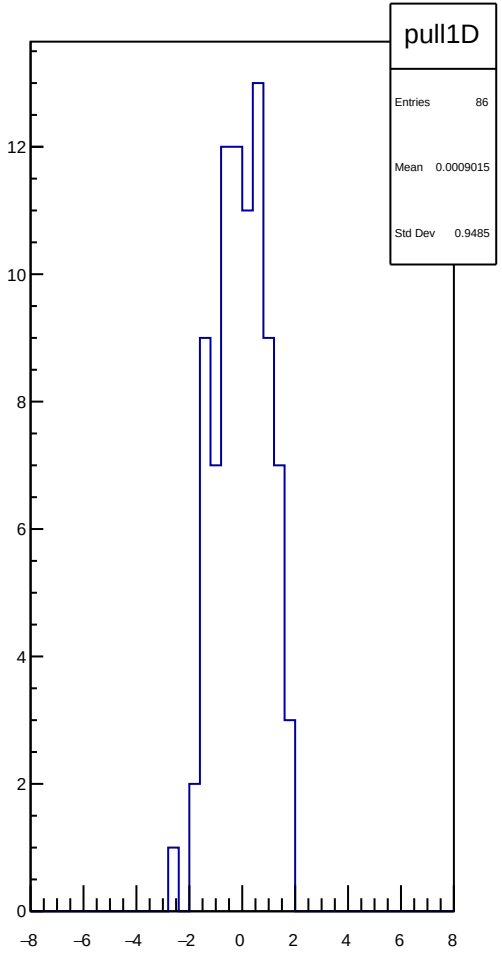

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.352e+04 / 85
p0 160.9 ± 0.1294
350
300
250
200
150
100

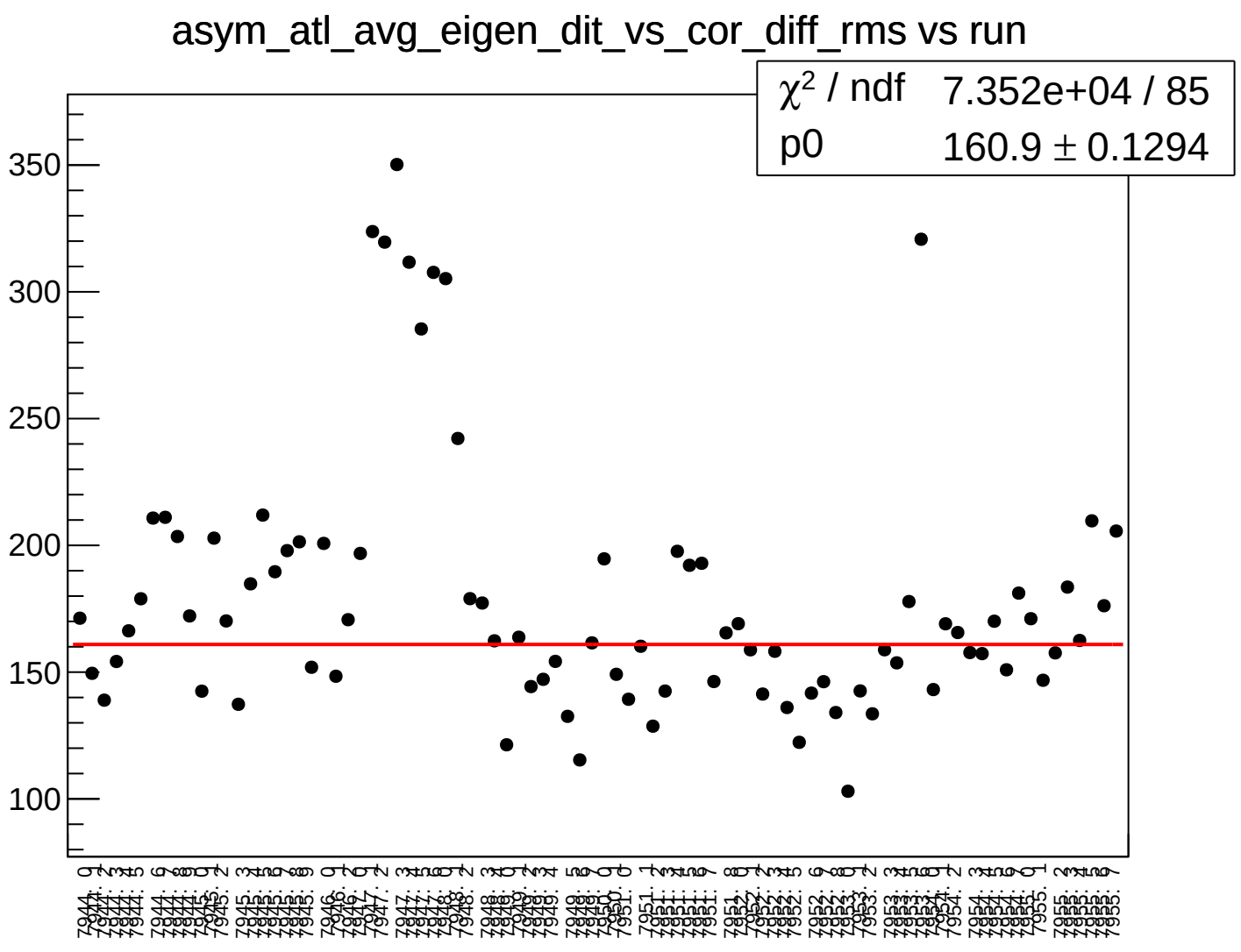

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.16 / 85
p0 8.296e−07 ± 7.36e−06
pull
Entries 86
Mean 199.9
Std Dev 0

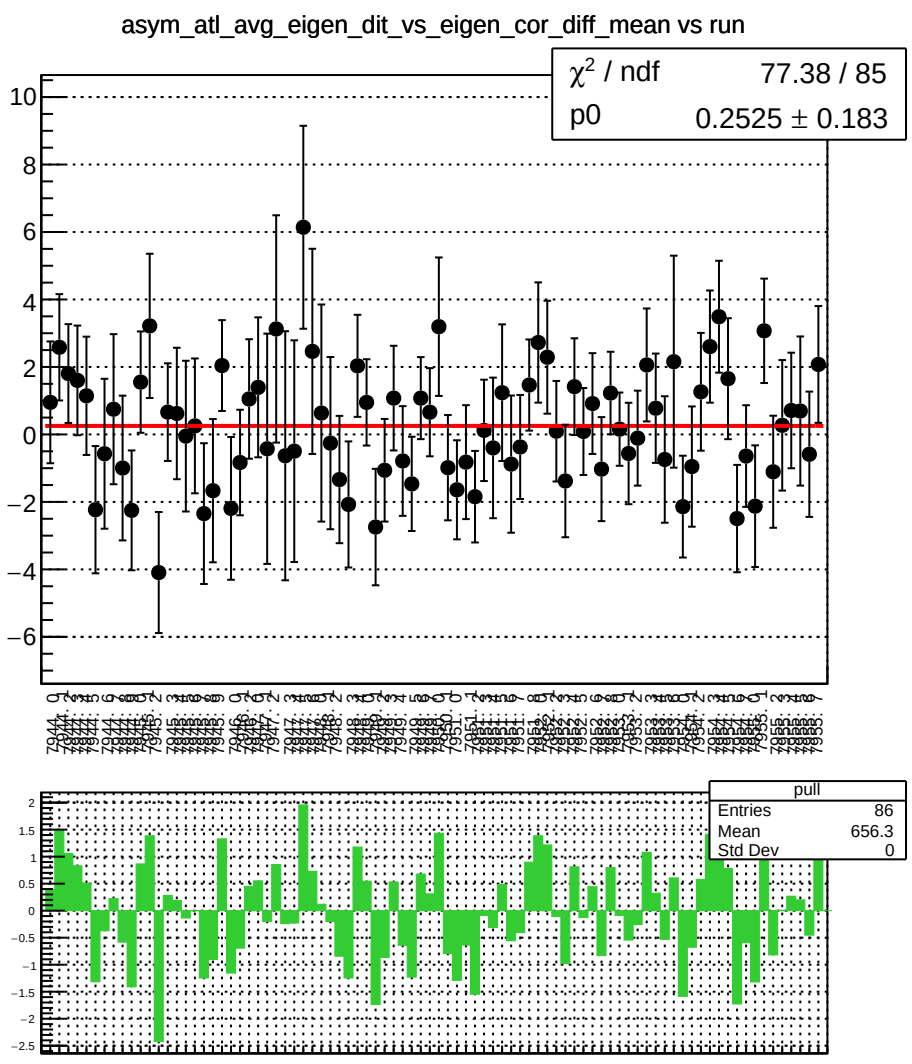

pull1D
Entries 86
Mean 0.01747
Std Dev 1.029

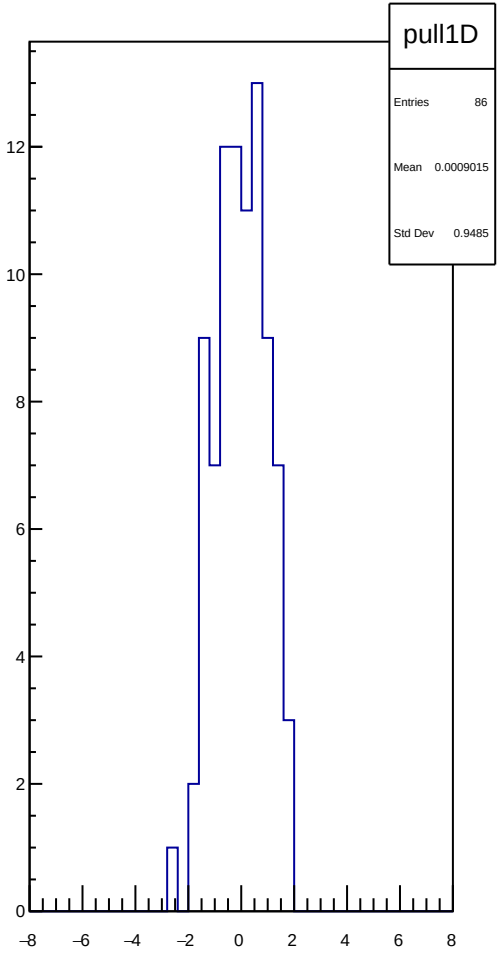

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8285 / 85
p0 0.006605 ± 5.204e−06
0.0075
0.007
0.0065
0.006
0.0055

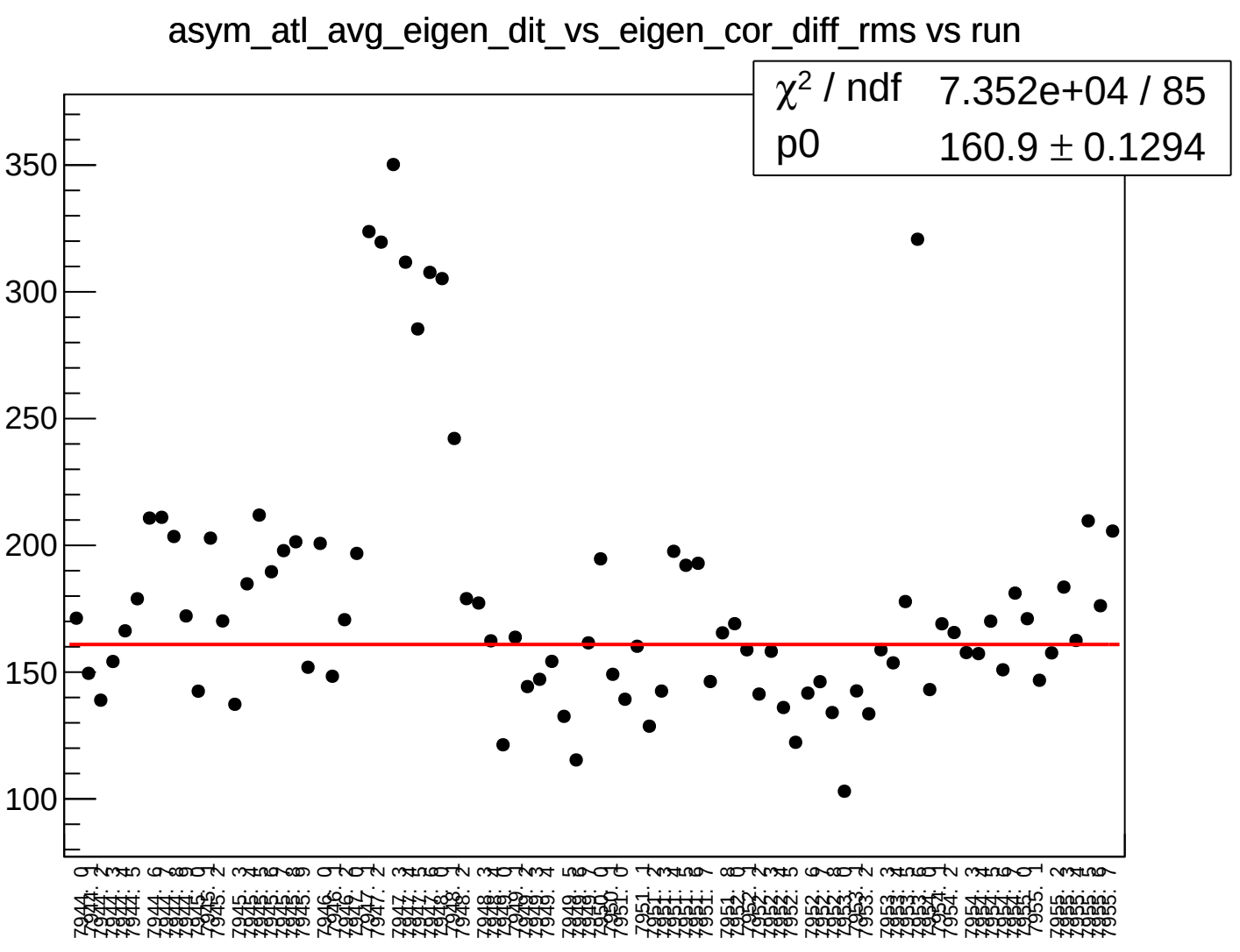

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.38 / 85
p0 0.2525 ± 0.183
pull
Entries 86
Mean 656.3
Std Dev 0

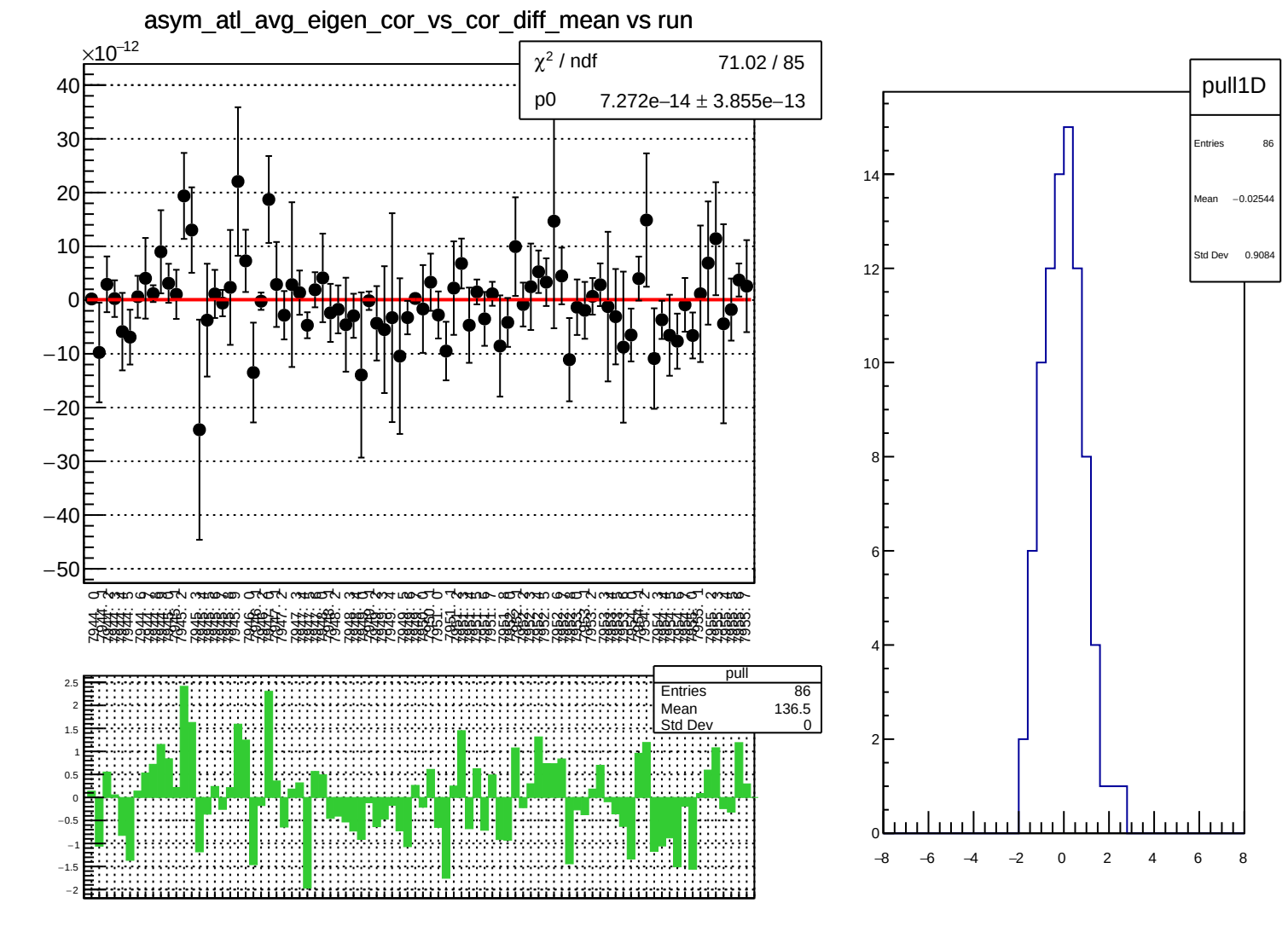

pull1D
Entries 86
Mean 0.0009015
Std Dev 0.9485

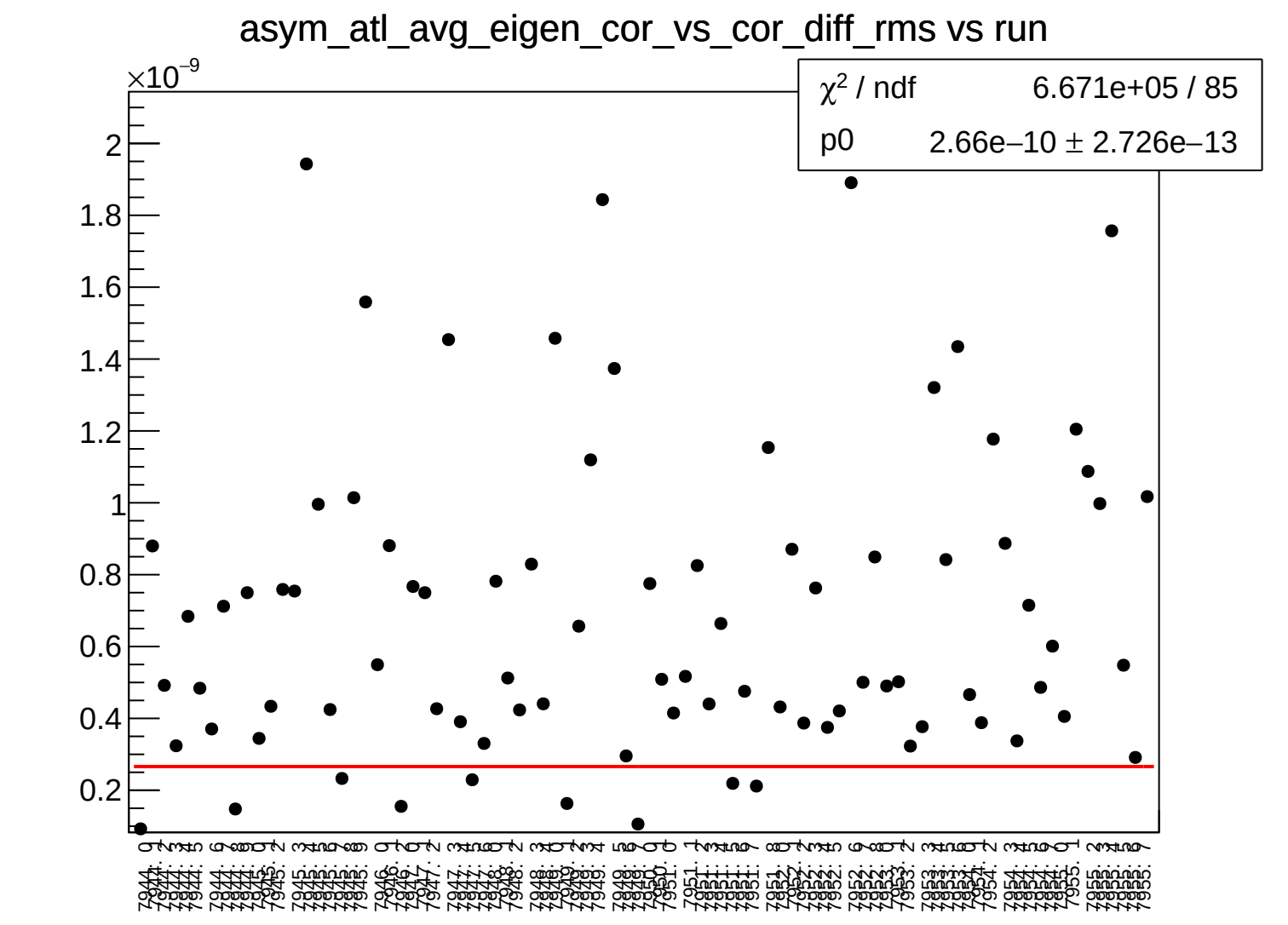

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.352e+04 / 85
p0 160.9 ± 0.1294
350
300
250
200
150
100

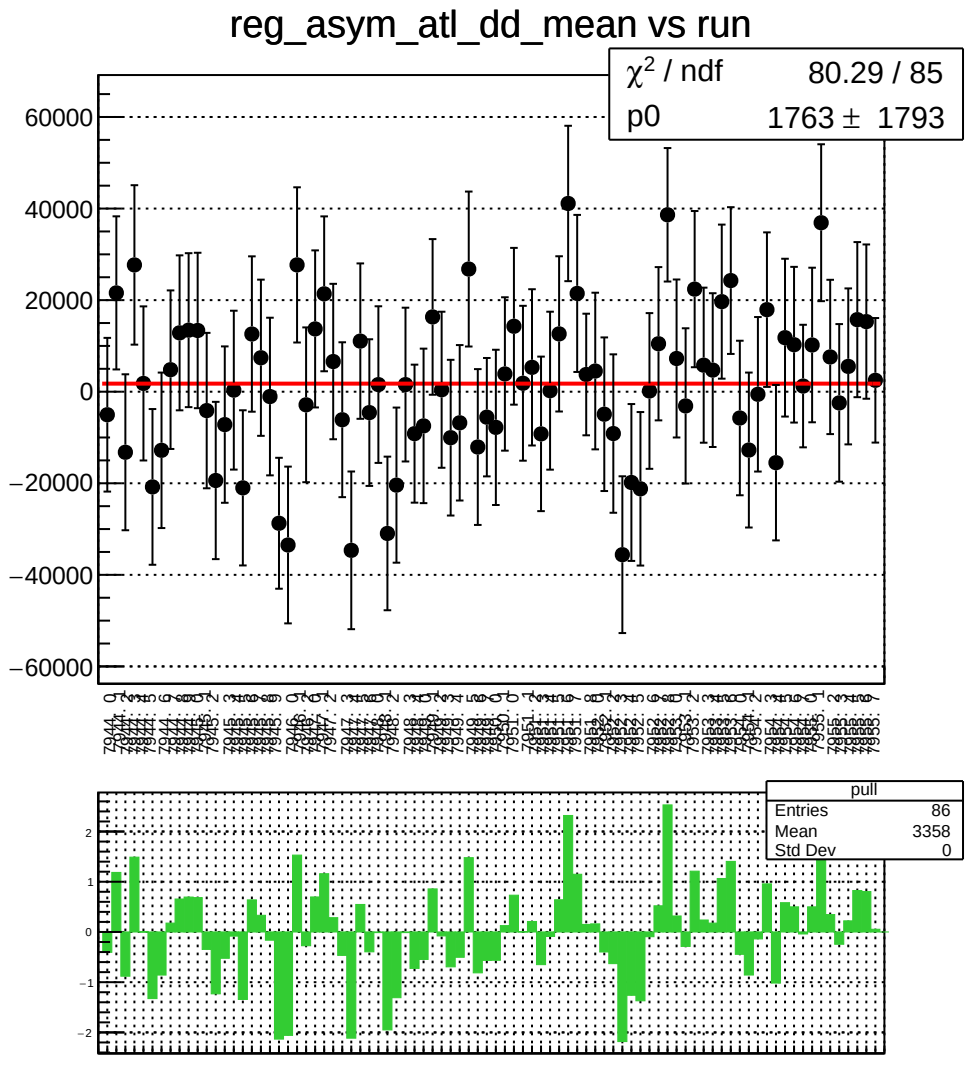

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.38 / 85
p0 0.2525 ± 0.183
pull
Entries 86
Mean 656.3
Std Dev 0

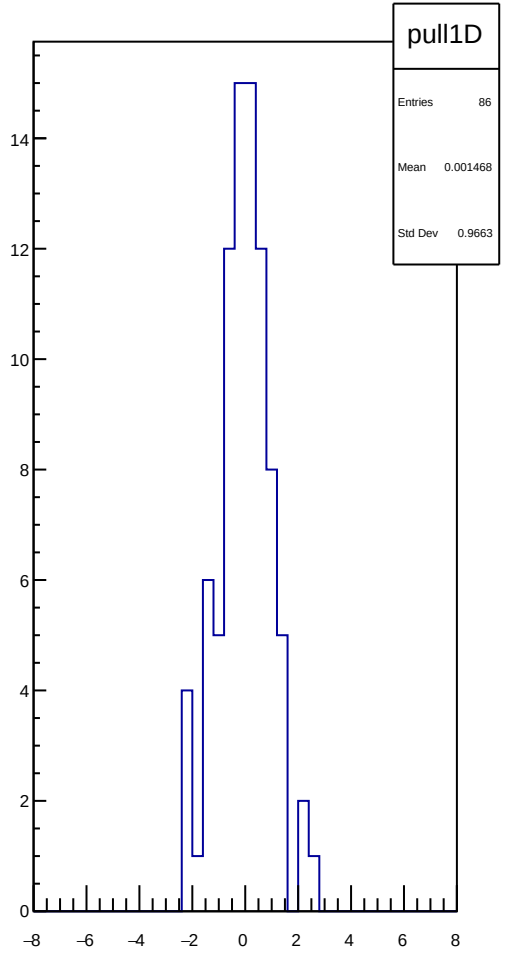

pull1D
Entries 86
Mean 0.0009015
Std Dev 0.9485

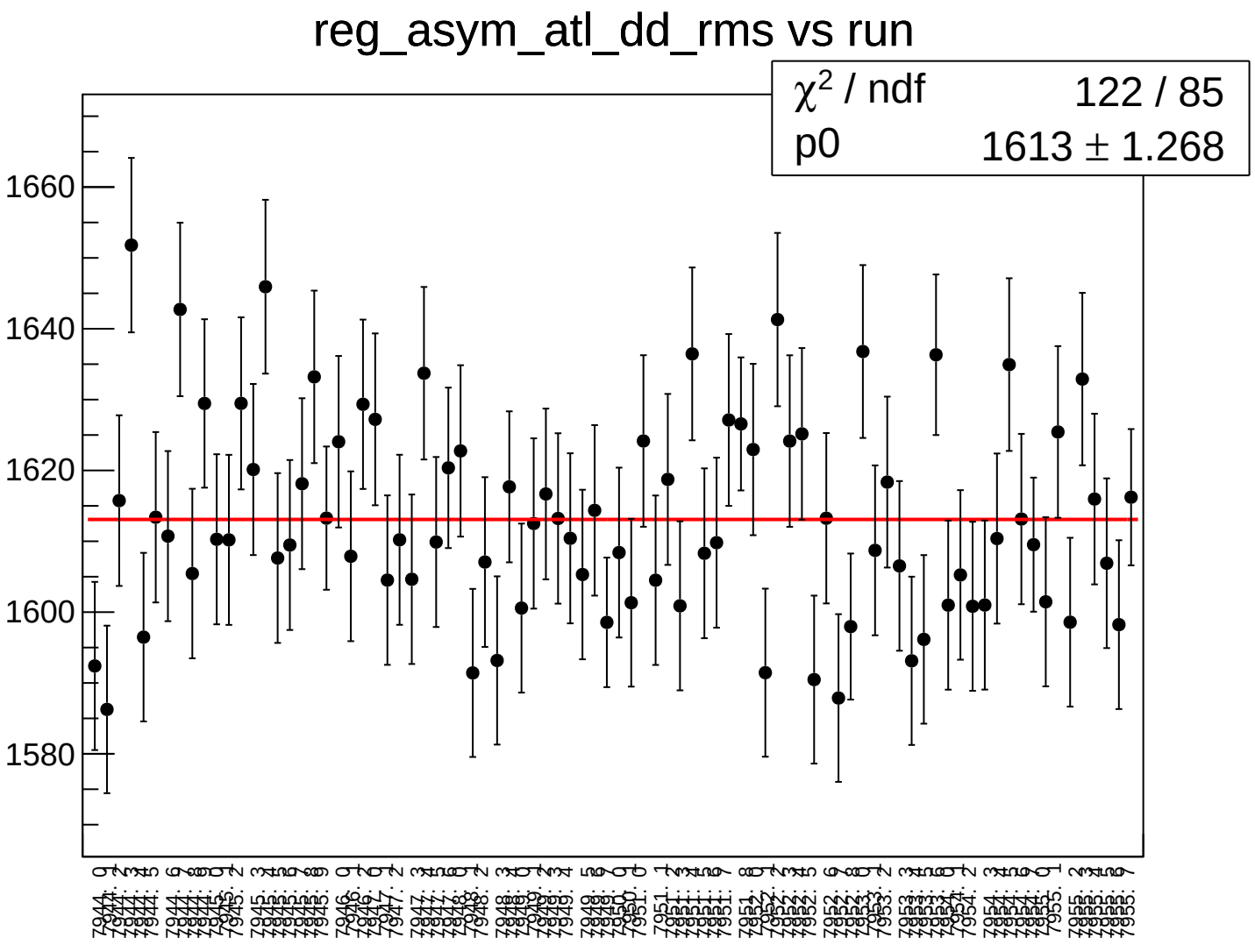

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.352e+04 / 85
p0 160.9 ± 0.1294
350
300
250
200
150
100

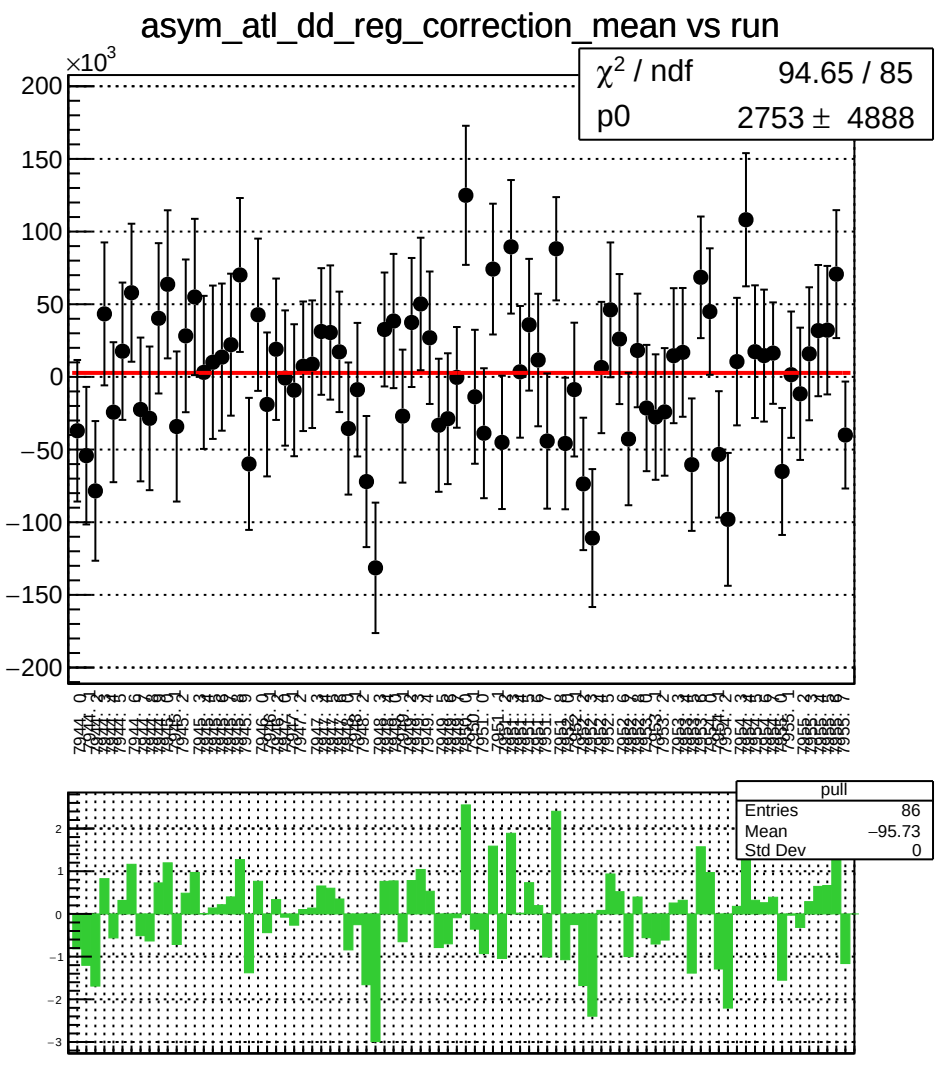

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.02 / 85
p0 7.272e−14 ± 3.855e−13
pull
Entries 86
Mean 136.5
Std Dev 0
pull1D
Entries 86
Mean −0.02544
Std Dev 0.9084

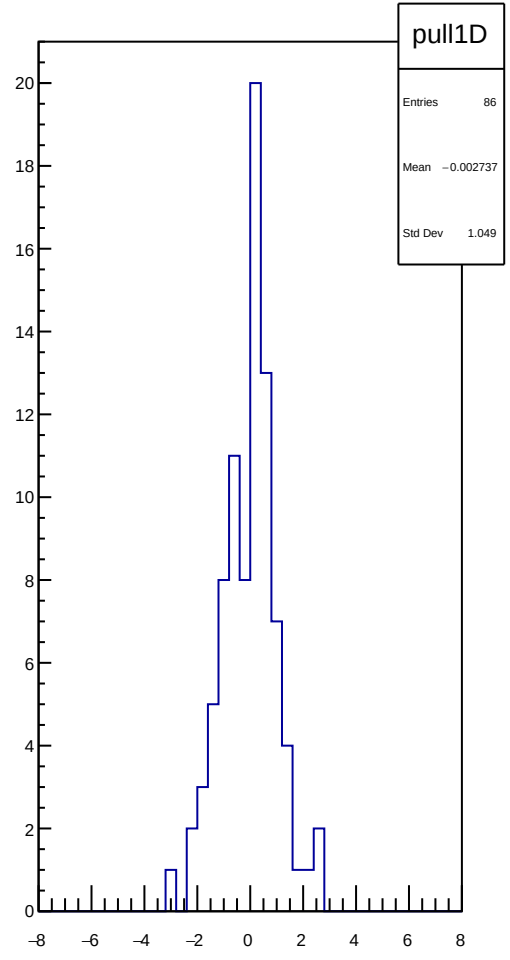

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.671e+05 / 85
p0 2.66e−10 ± 2.726e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

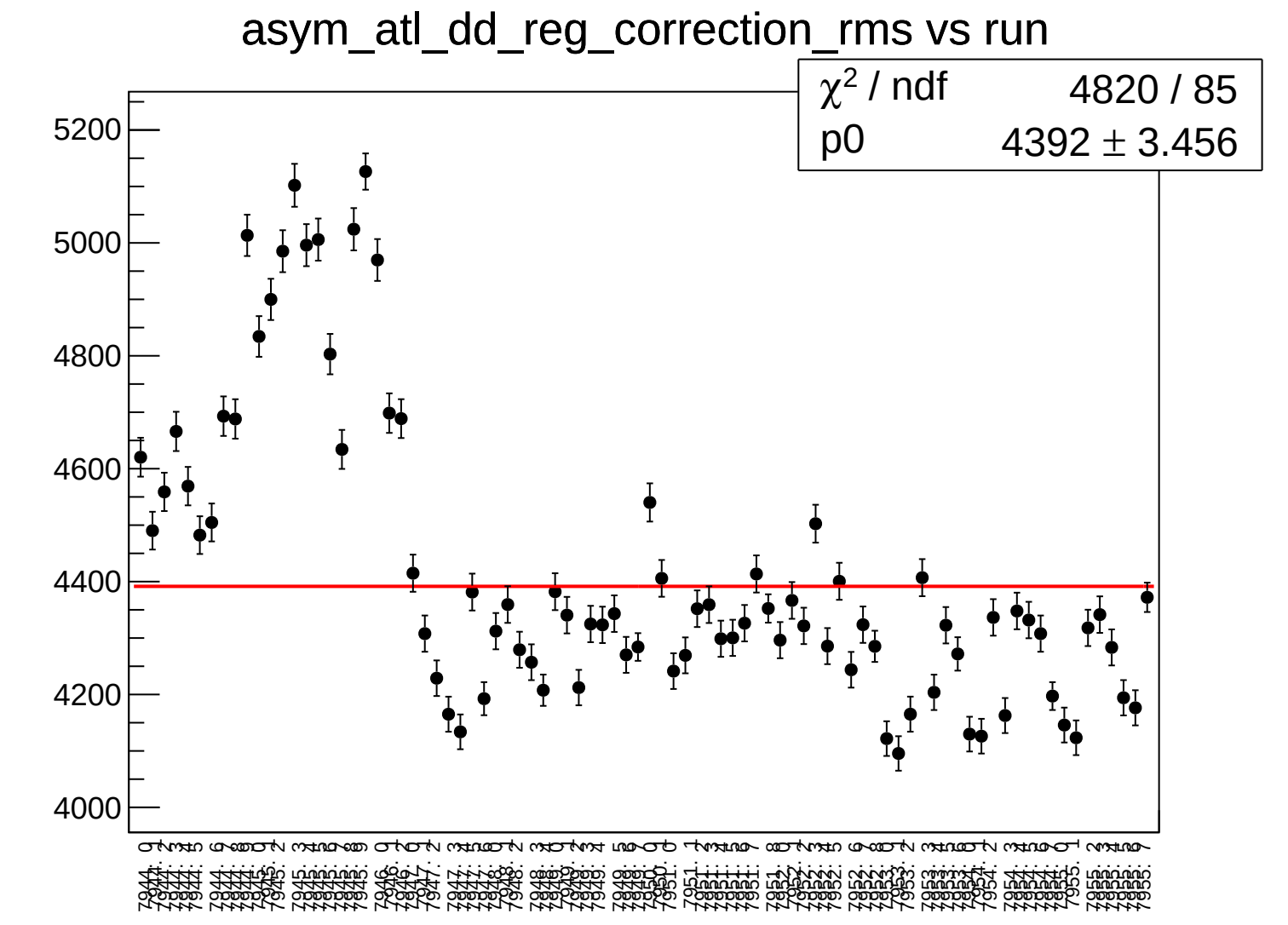

reg_asym_atl_dd_mean vs run
χ² / ndf 80.29 / 85
p0 1763 ± 1793
pull
Entries 86
Mean 3358
Std Dev 0

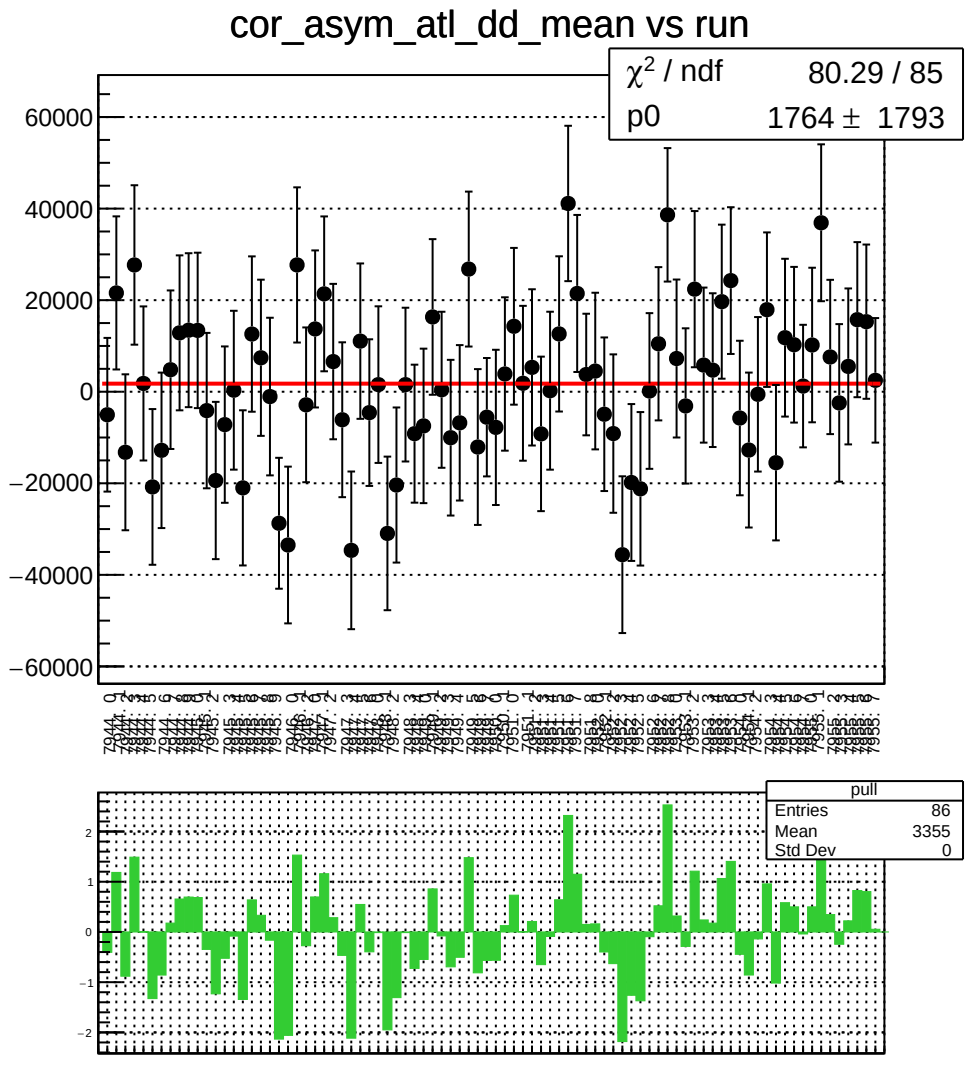

pull1D
Entries 86
Mean 0.001468
Std Dev 0.9663

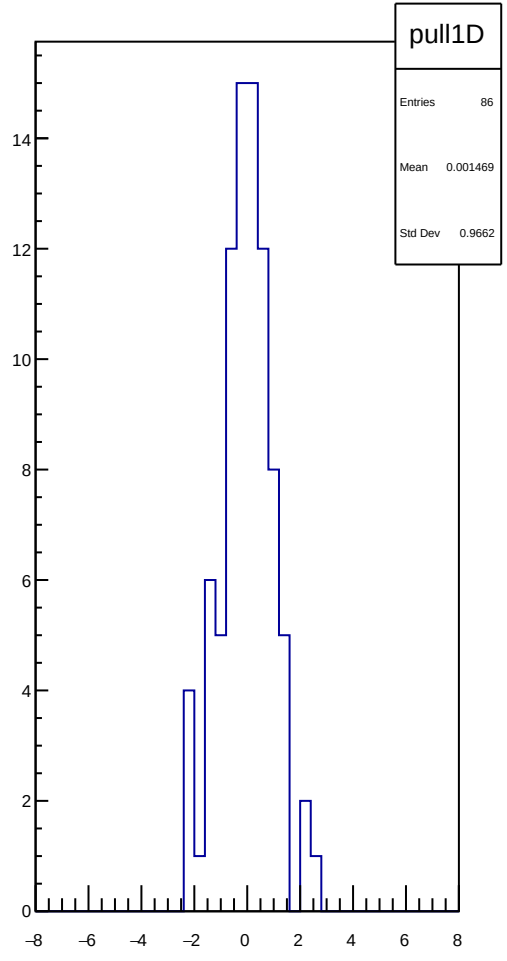

reg_asym_atl_dd_rms vs run
χ^2 / ndf 122 / 85
p0 1613 ± 1.268
1660
1640
1620
1600
1580

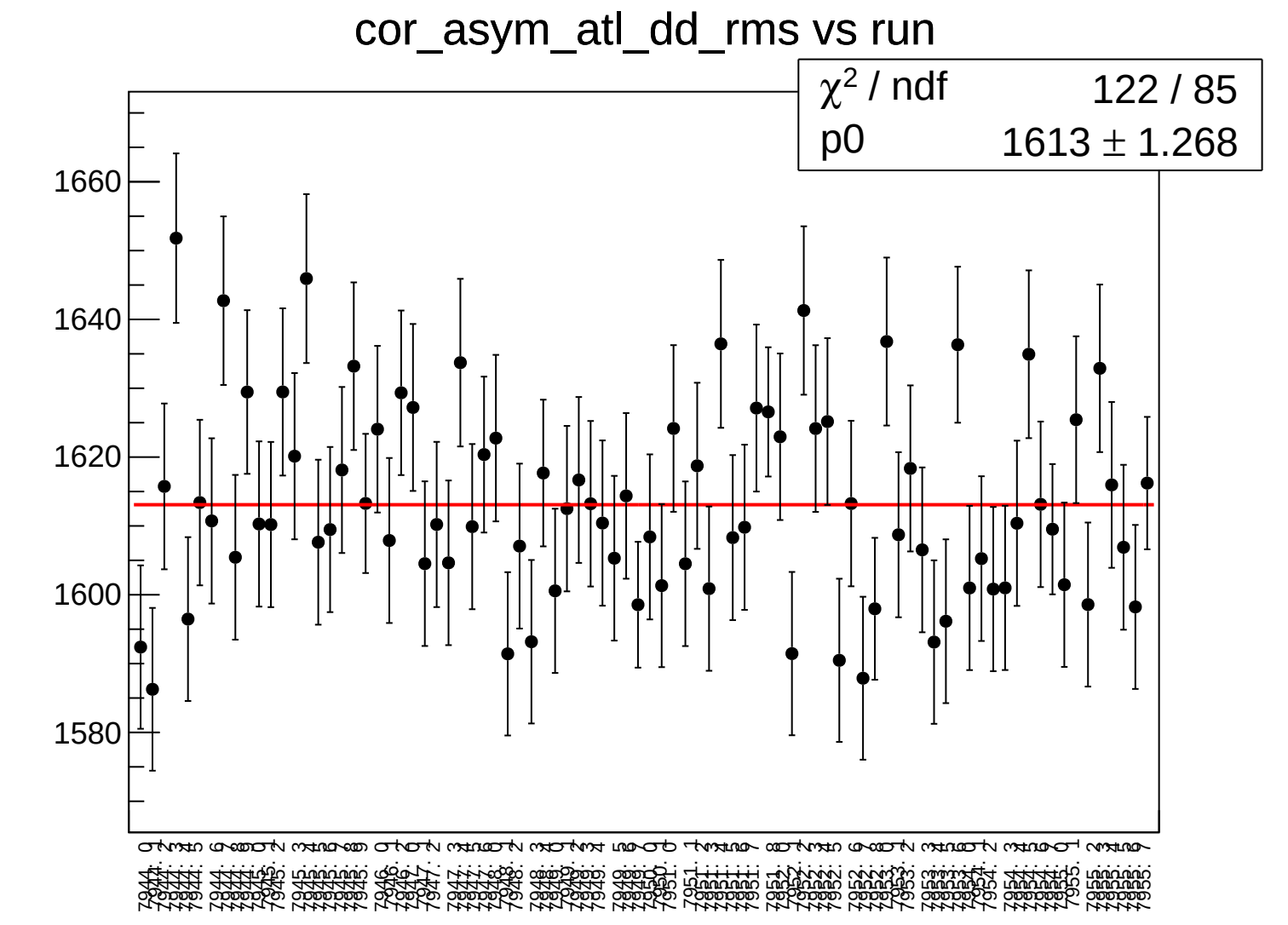

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.65 / 85
p0 2753 ± 4888
pull
Entries 86
Mean −95.73
Std Dev 0

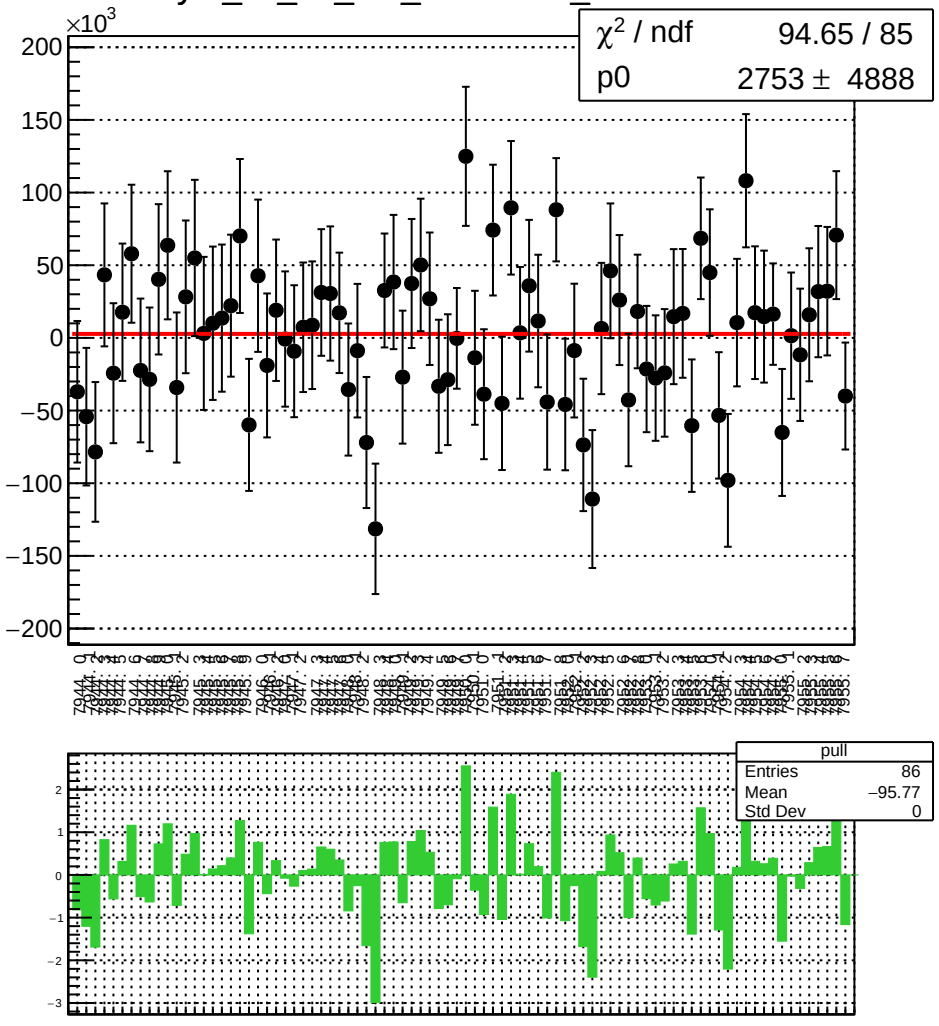

pull1D
Entries 86
Mean −0.002737
Std Dev 1.049

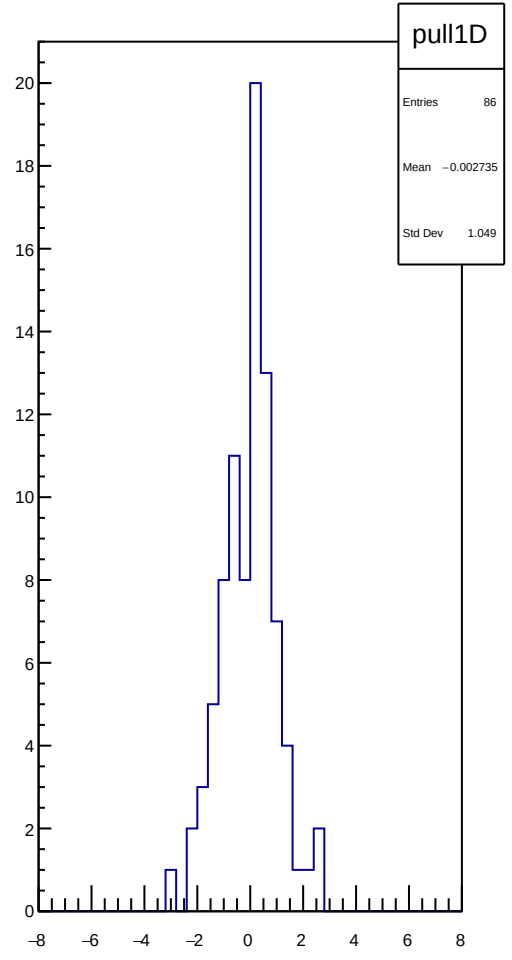

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 4820 / 85
p0 4392 ± 3.456
5200
5000
4800
4600
4400
4200
4000

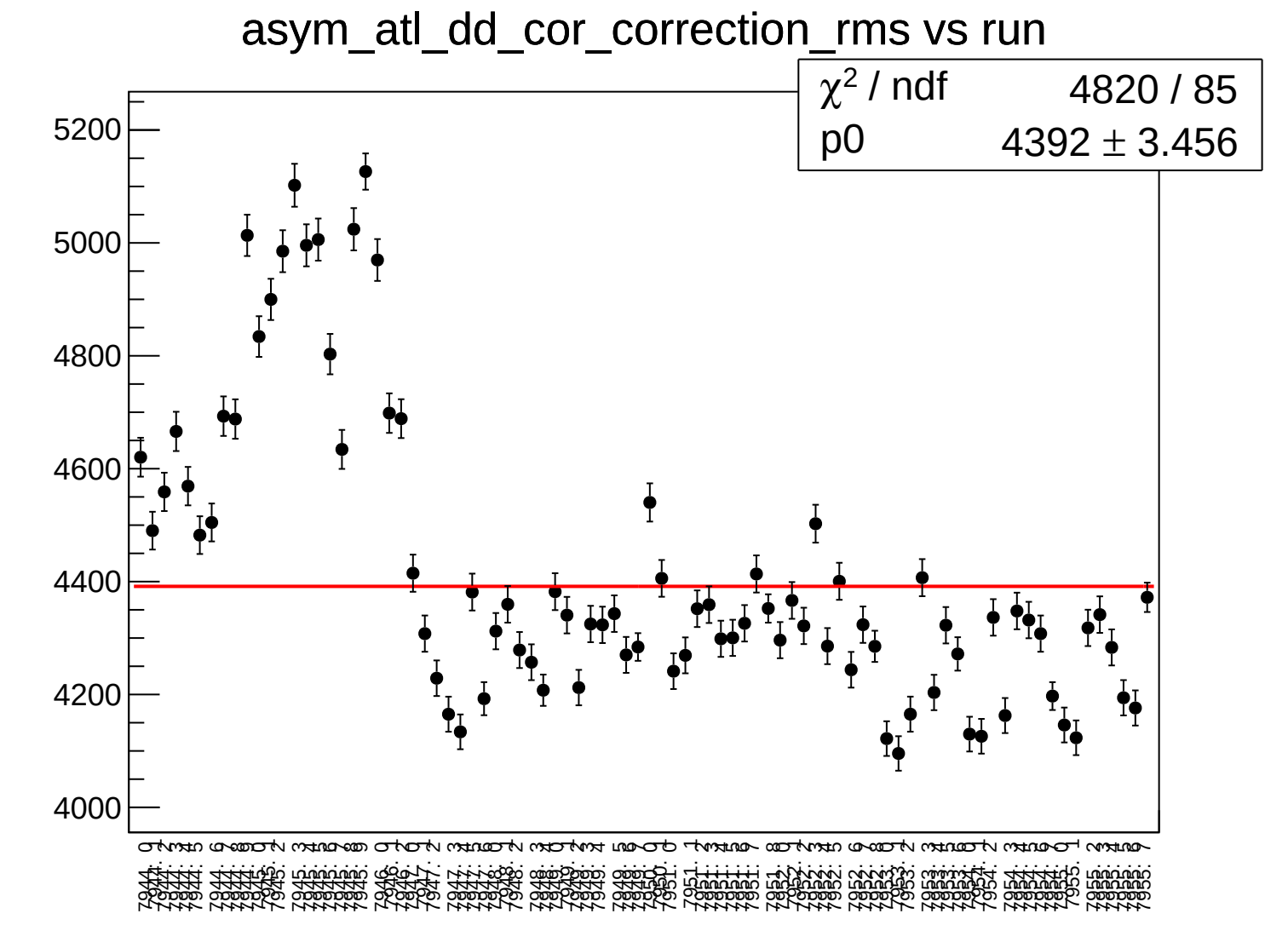

cor_asym_atl_dd_mean vs run
χ² / ndf 80.29 / 85
p0 1764 ± 1793
pull
Entries 86
Mean 3355
Std Dev 0

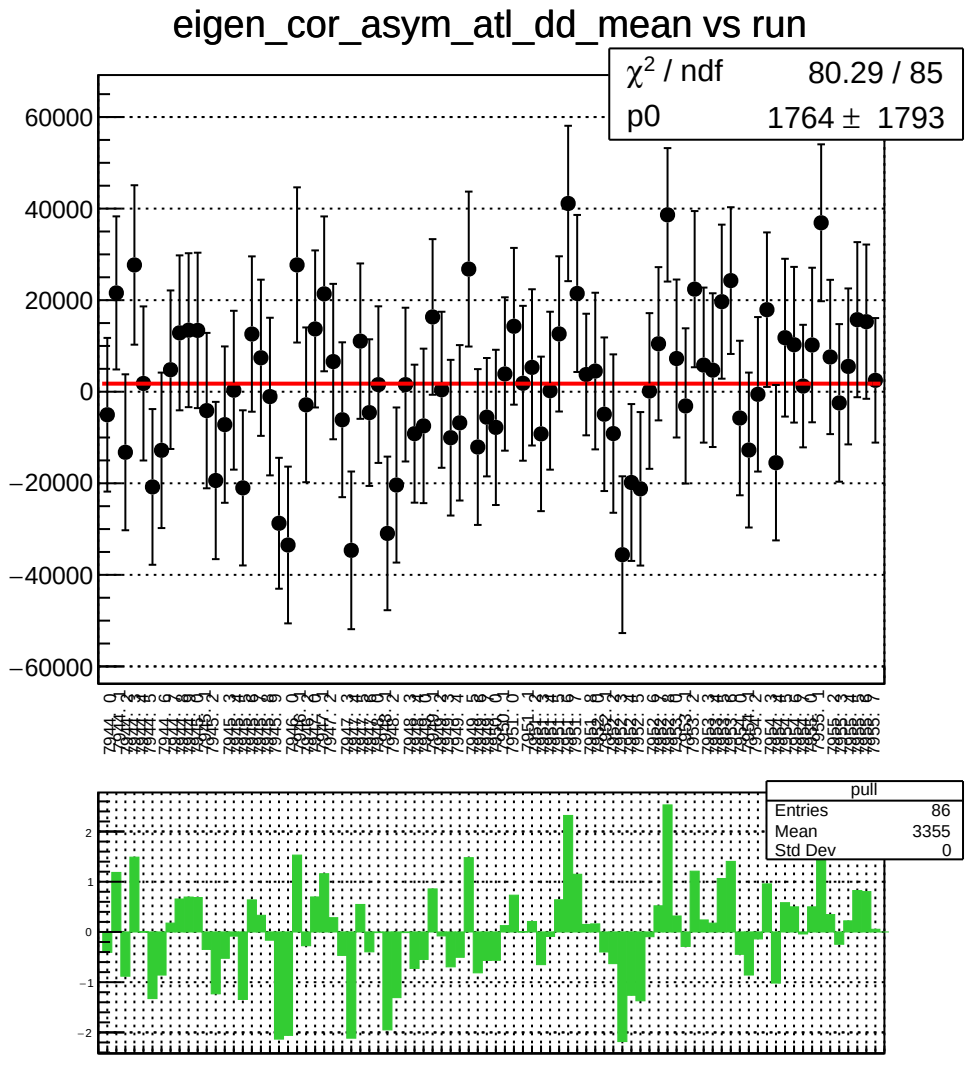

pull1D
Entries 86
Mean 0.001469
Std Dev 0.9662

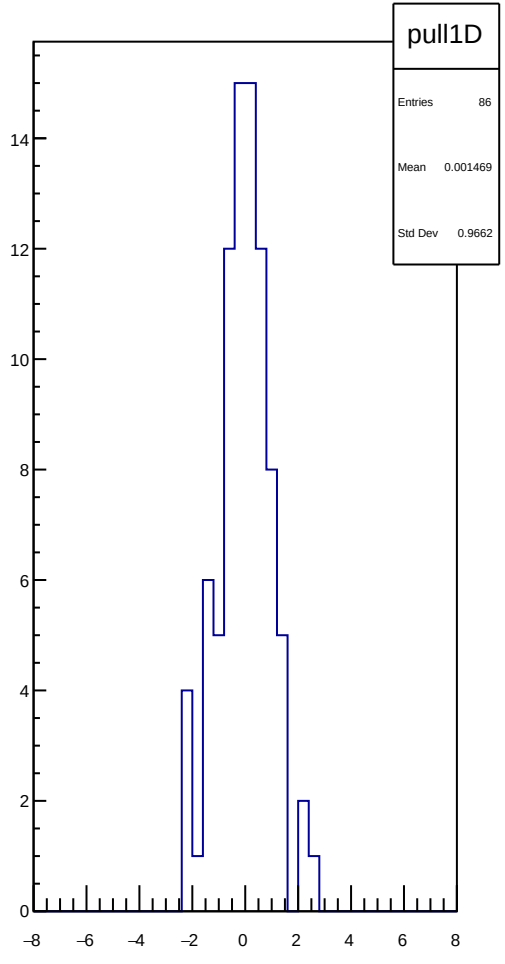

cor_asym_atl_dd_rms vs run
χ^2 / ndf 122 / 85
p0 1613 ± 1.268
1660
1640
1620
1600
1580

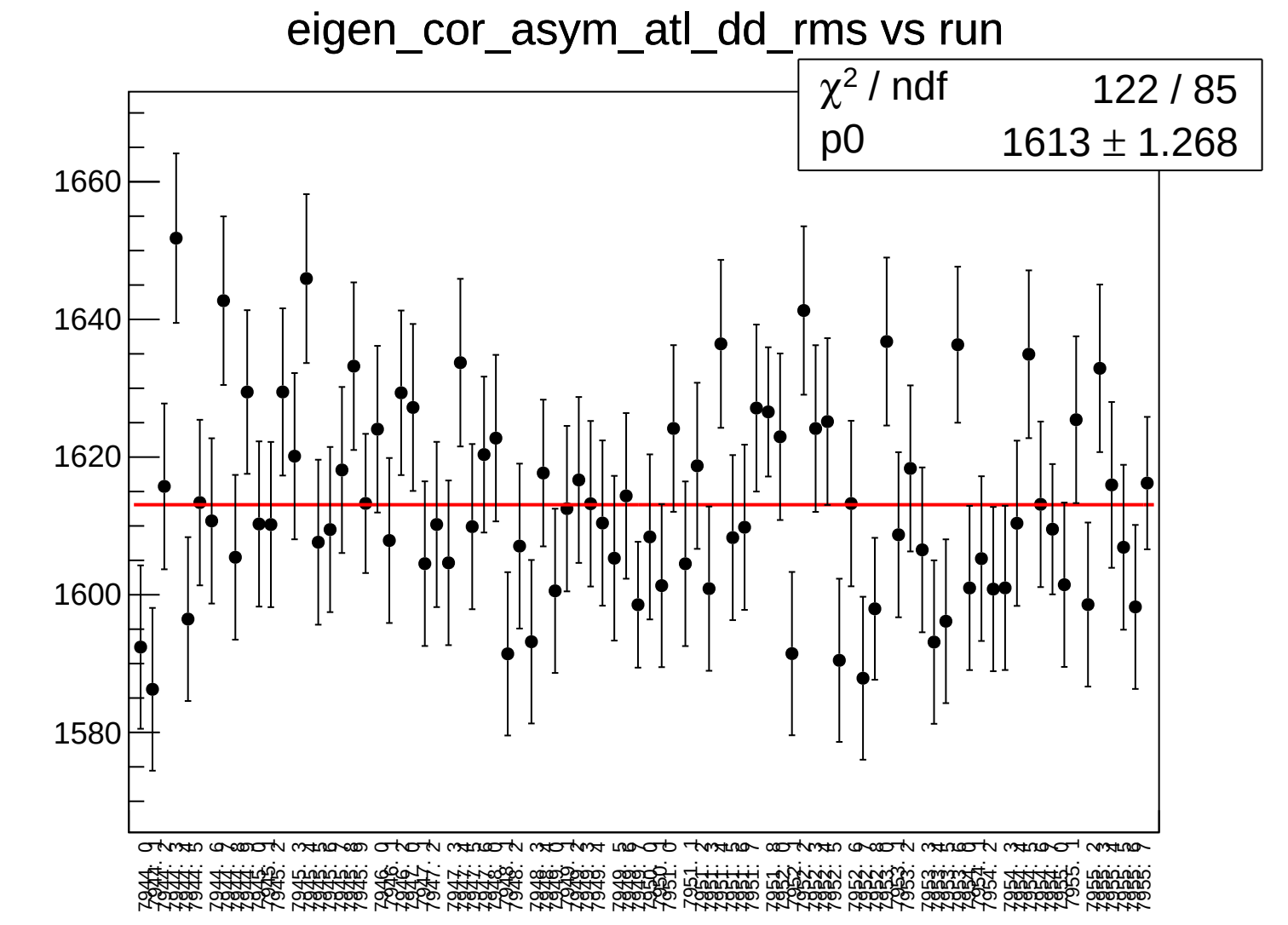

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.65 / 85
p0 2753 ± 4888
pull
Entries 86
Mean −95.77
Std Dev 0

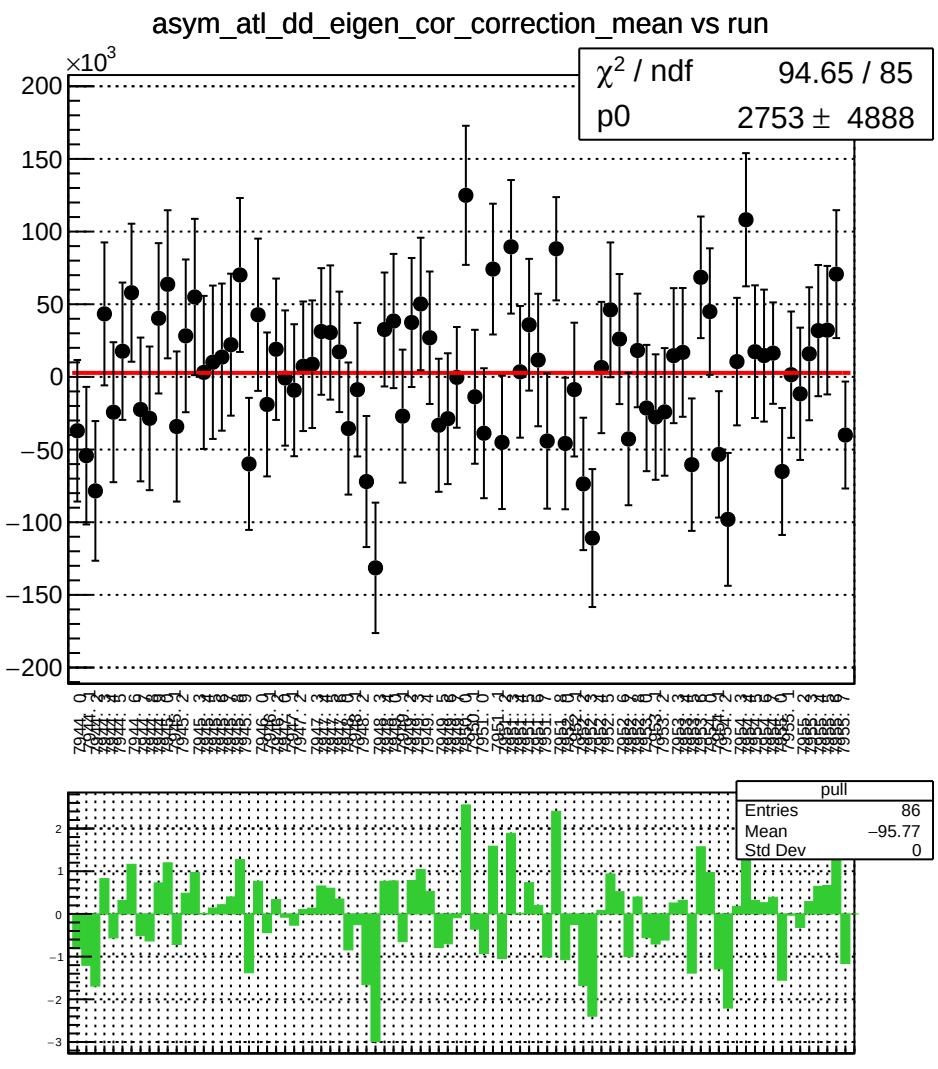

pull1D
Entries 86
Mean −0.002735
Std Dev 1.049

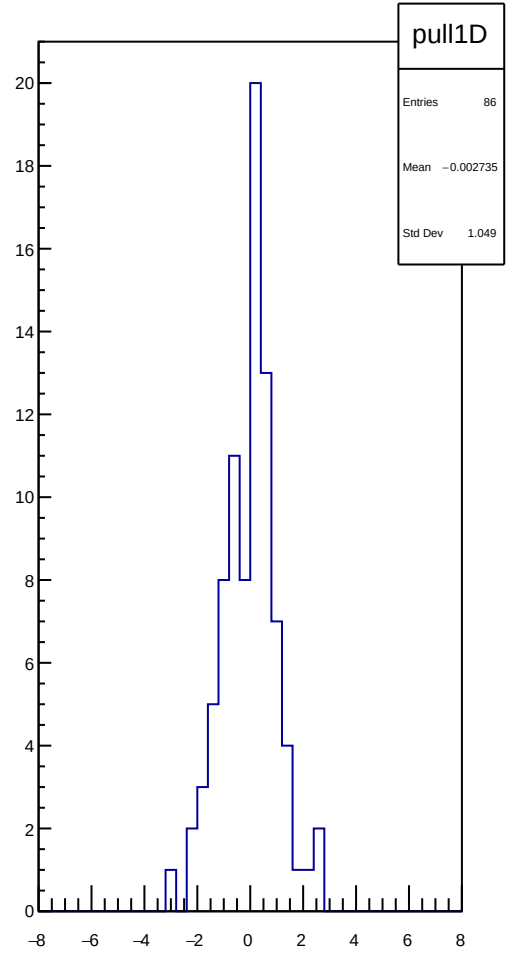

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 4820 / 85
p0 4392 ± 3.456
5200
5000
4800
4600
4400
4200
4000

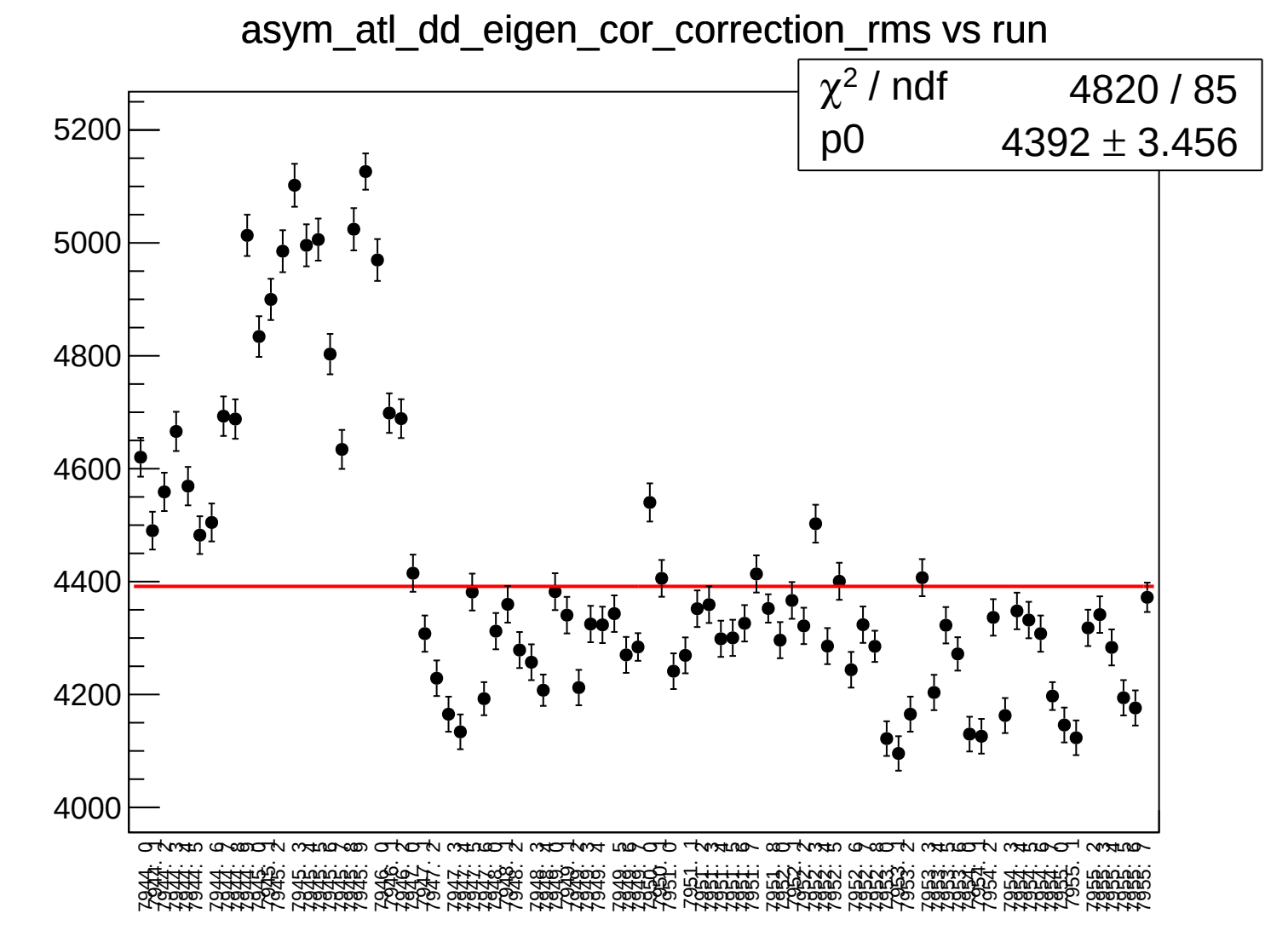

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 80.29 / 85
p0 1764 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 3355
Std Dev 0
2
1
0
−1
−2

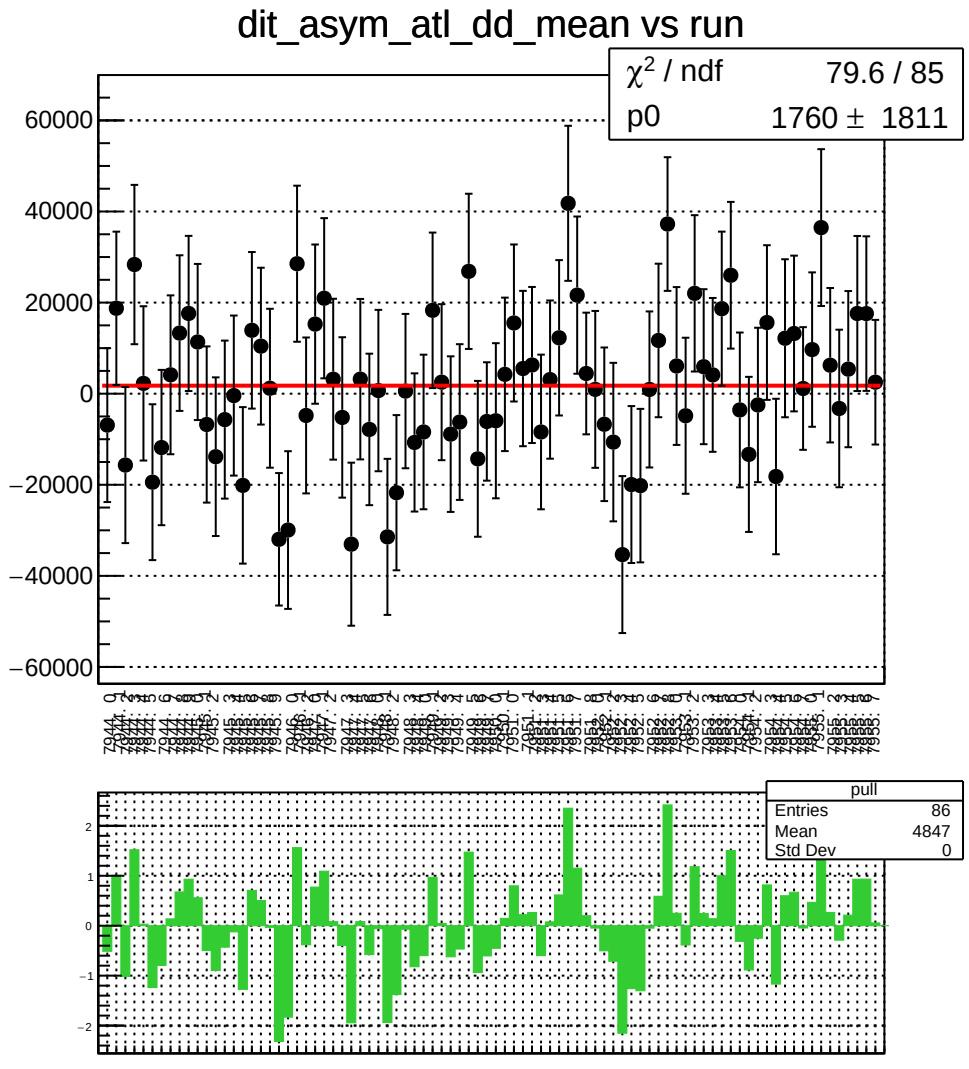

pull1D
Entries 86
Mean 0.001469
Std Dev 0.9662
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

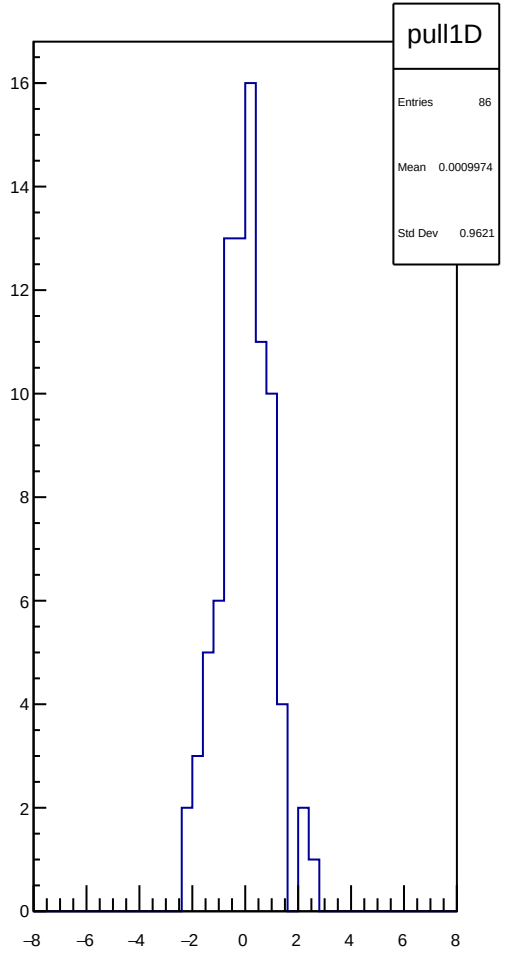

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 122 / 85
p0 1613 ± 1.268
1660
1640
1620
1600
1580

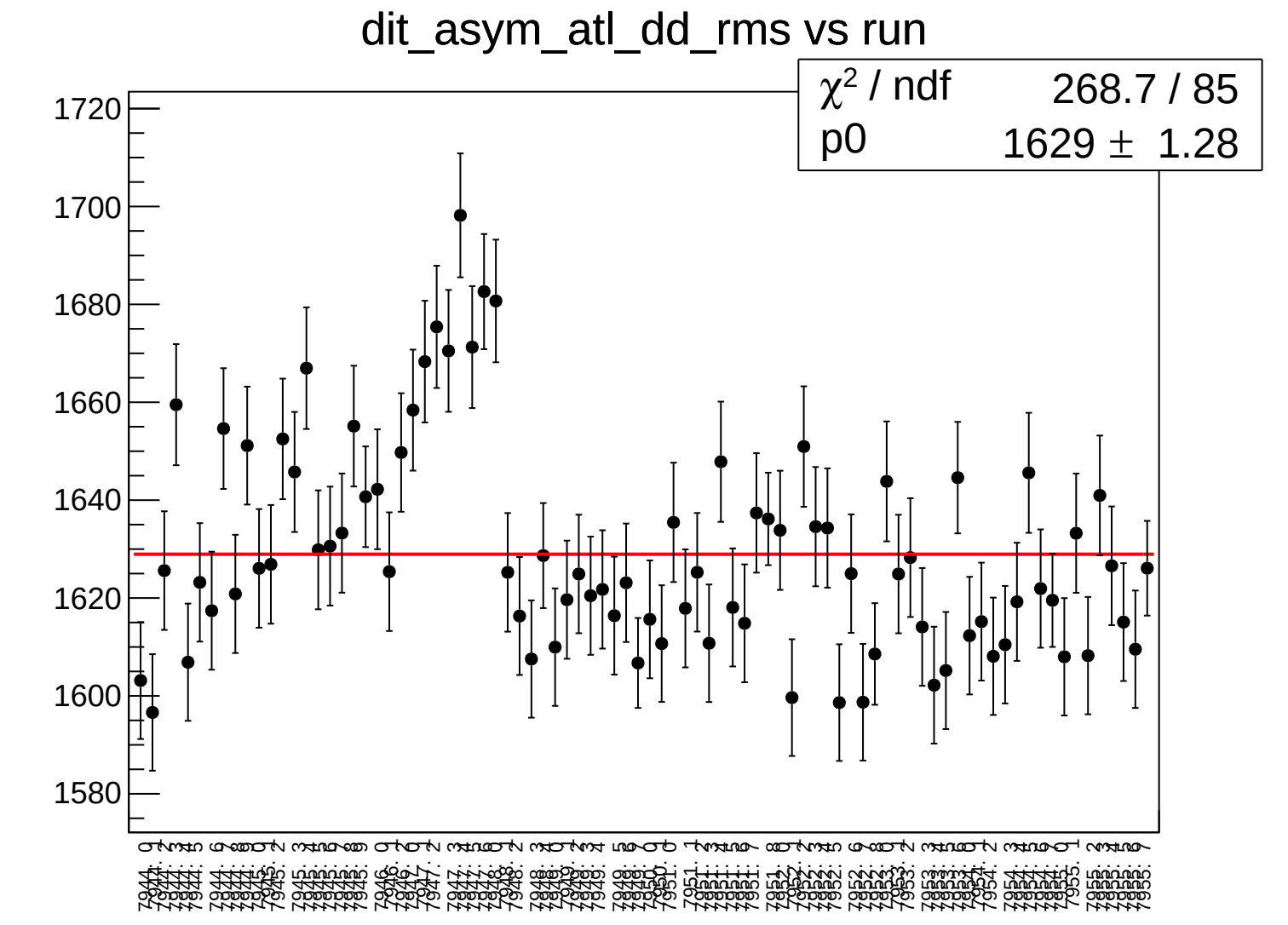

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.65 / 85
p0 2753 ± 4888
pull
Entries 86
Mean −95.77
Std Dev 0

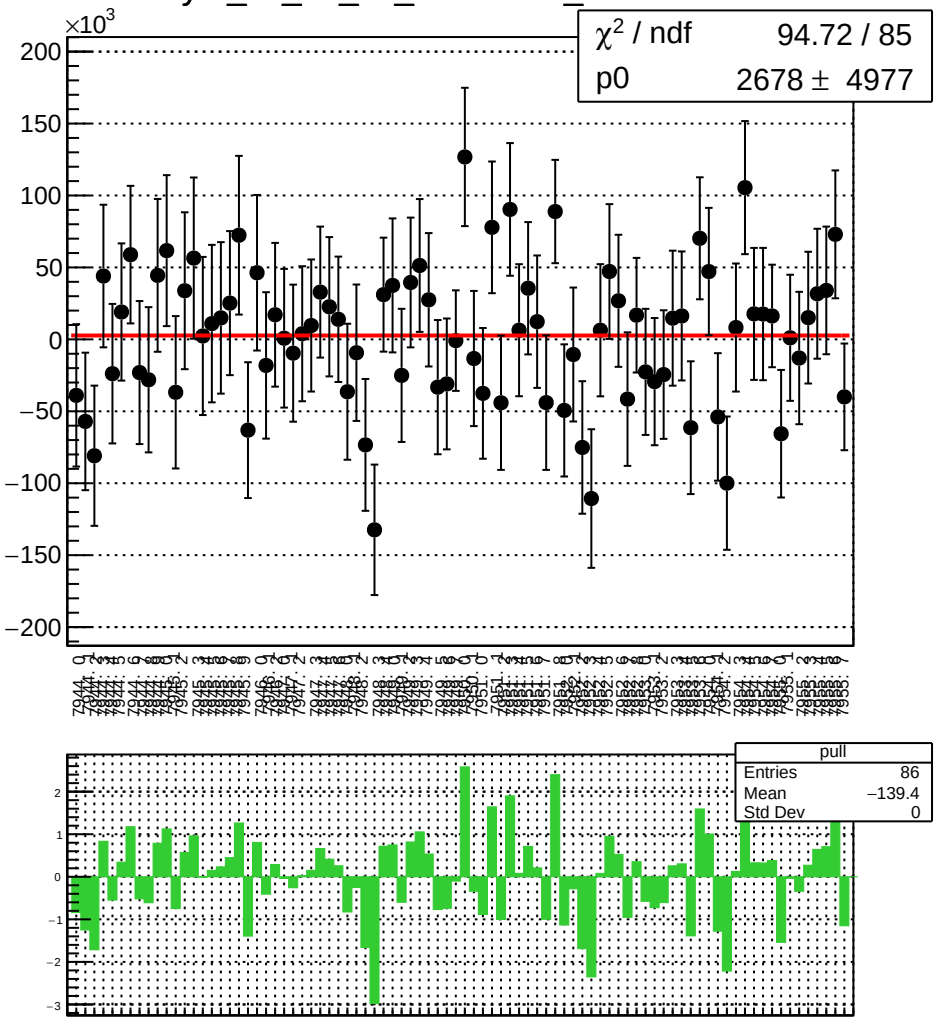

pull1D
Entries 86
Mean −0.002735
Std Dev 1.049

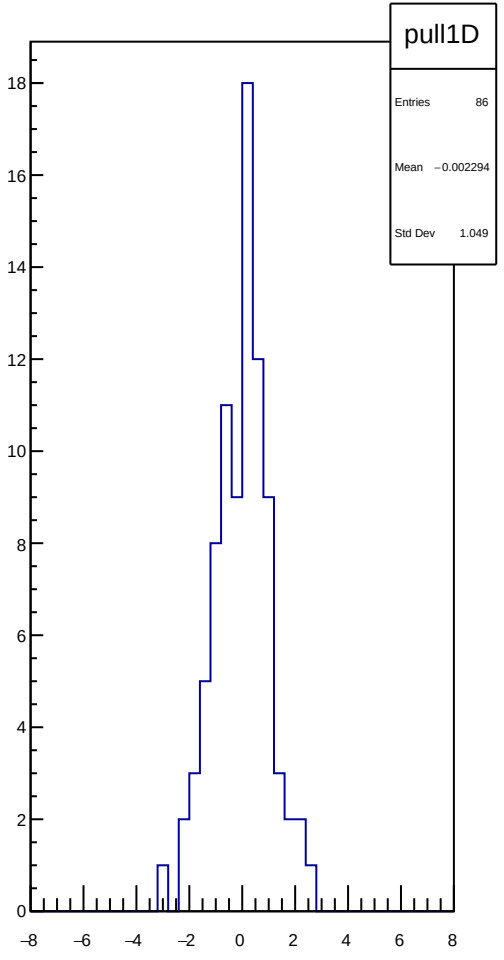

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 4820 / 85
p0 4392 ± 3.456
5200
5000
4800
4600
4400
4200
4000

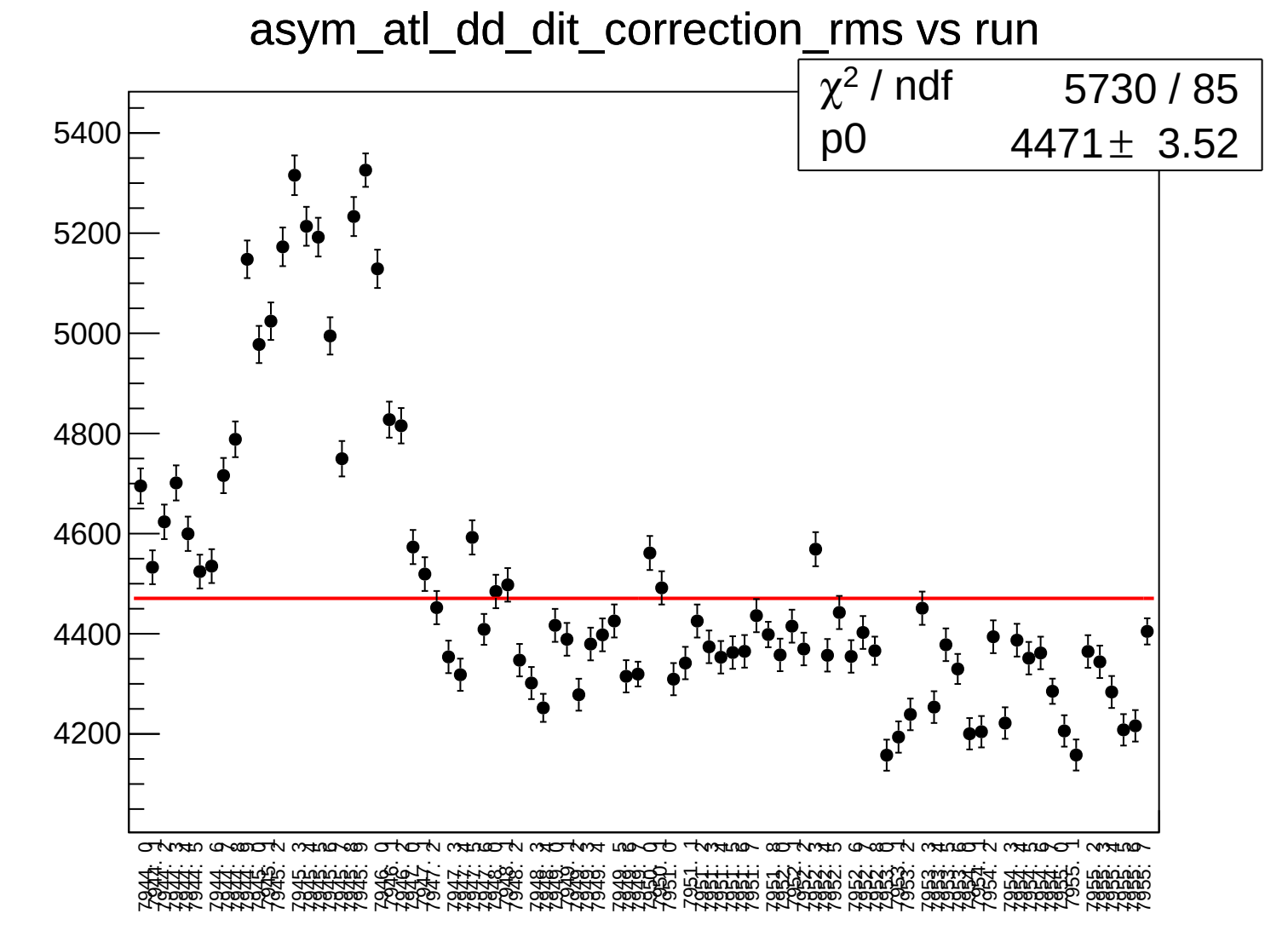

dit_asym_atl_dd_mean vs run
χ² / ndf 79.6 / 85
p0 1760 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 4847
Std Dev 0
2
1
0
−1
−2

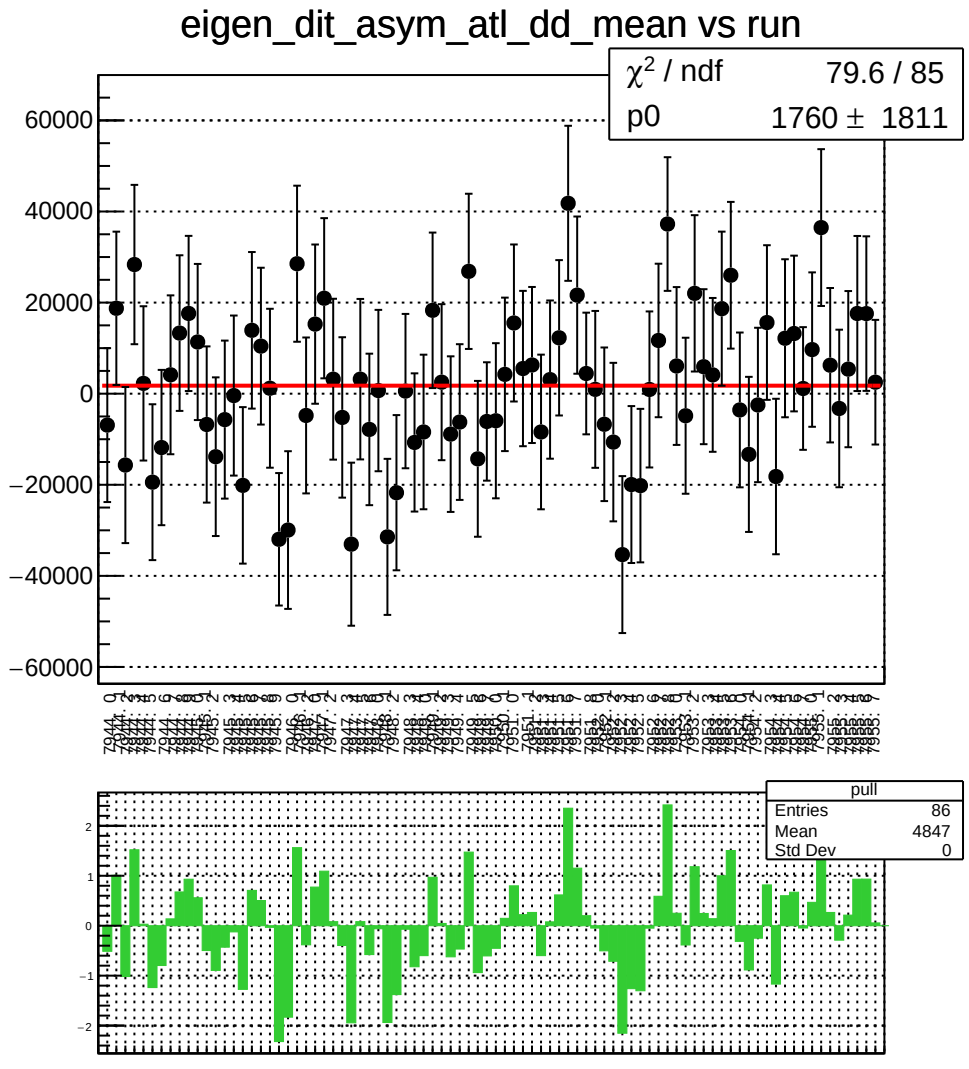

pull1D
Entries 86
Mean 0.0009974
Std Dev 0.9621
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

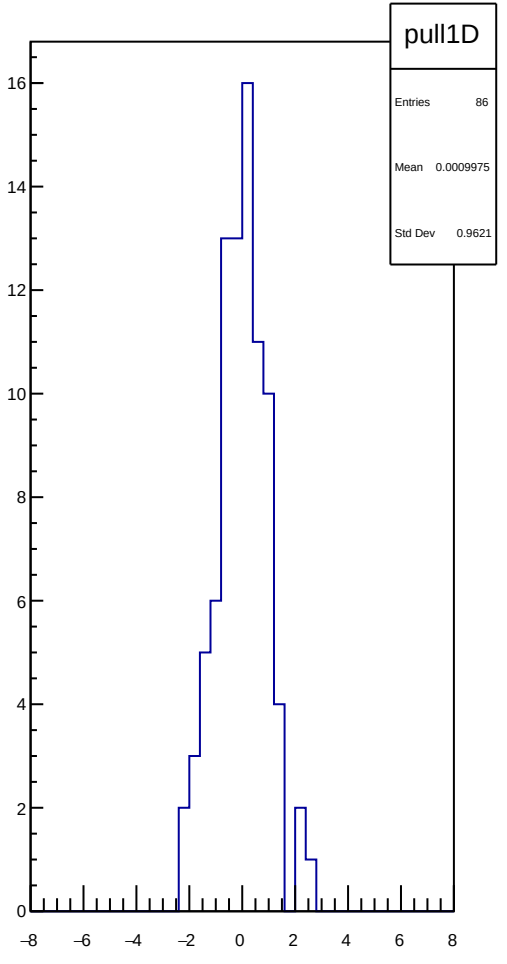

dit_asym_atl_dd_rms vs run
χ² / ndf 268.7 / 85
p0 1629 ± 1.28
1720
1700
1680
1660
1640
1620
1600
1580

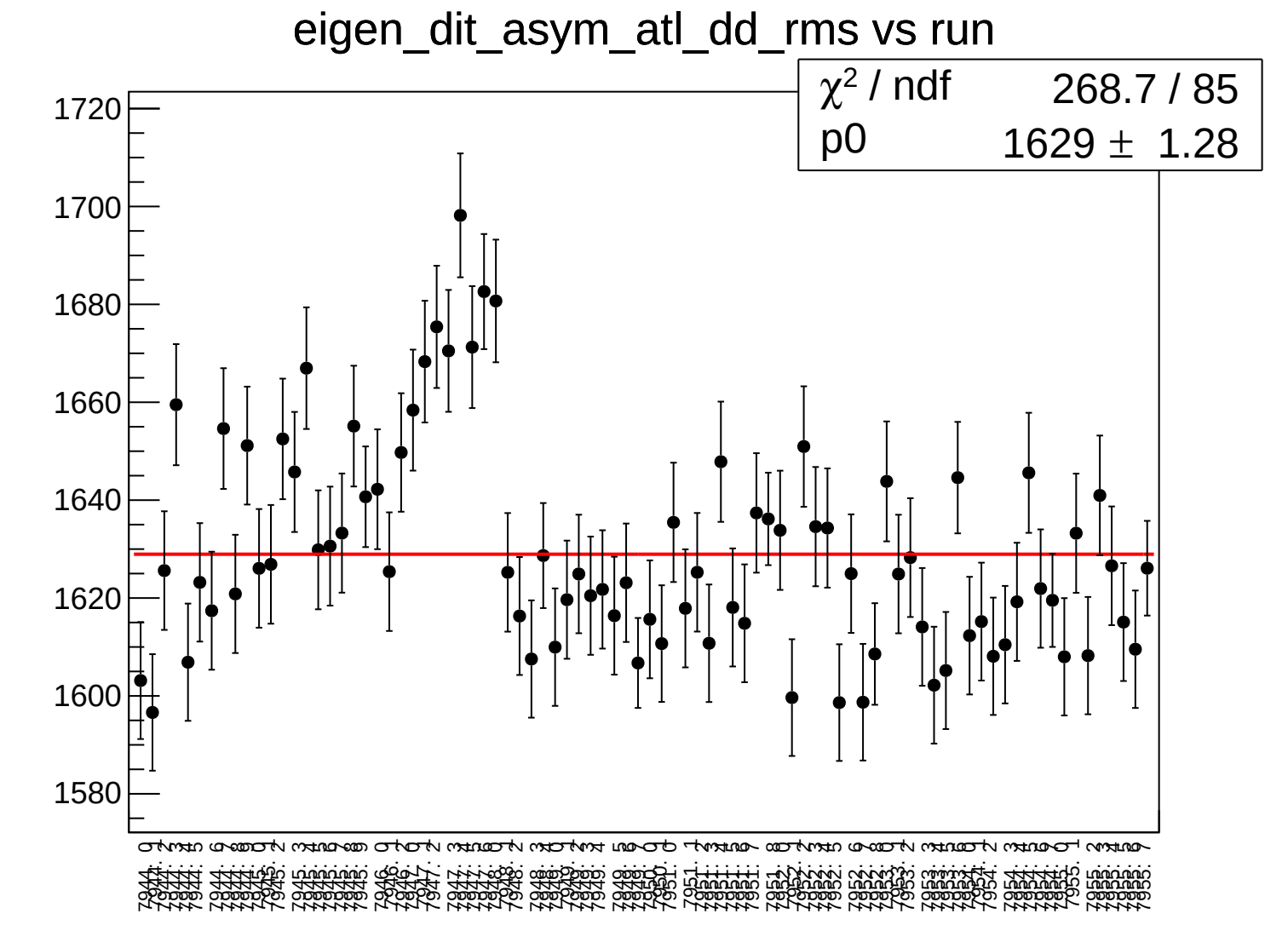

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 94.72 / 85
p0 2678 ± 4977
pull
Entries 86
Mean −139.4
Std Dev 0

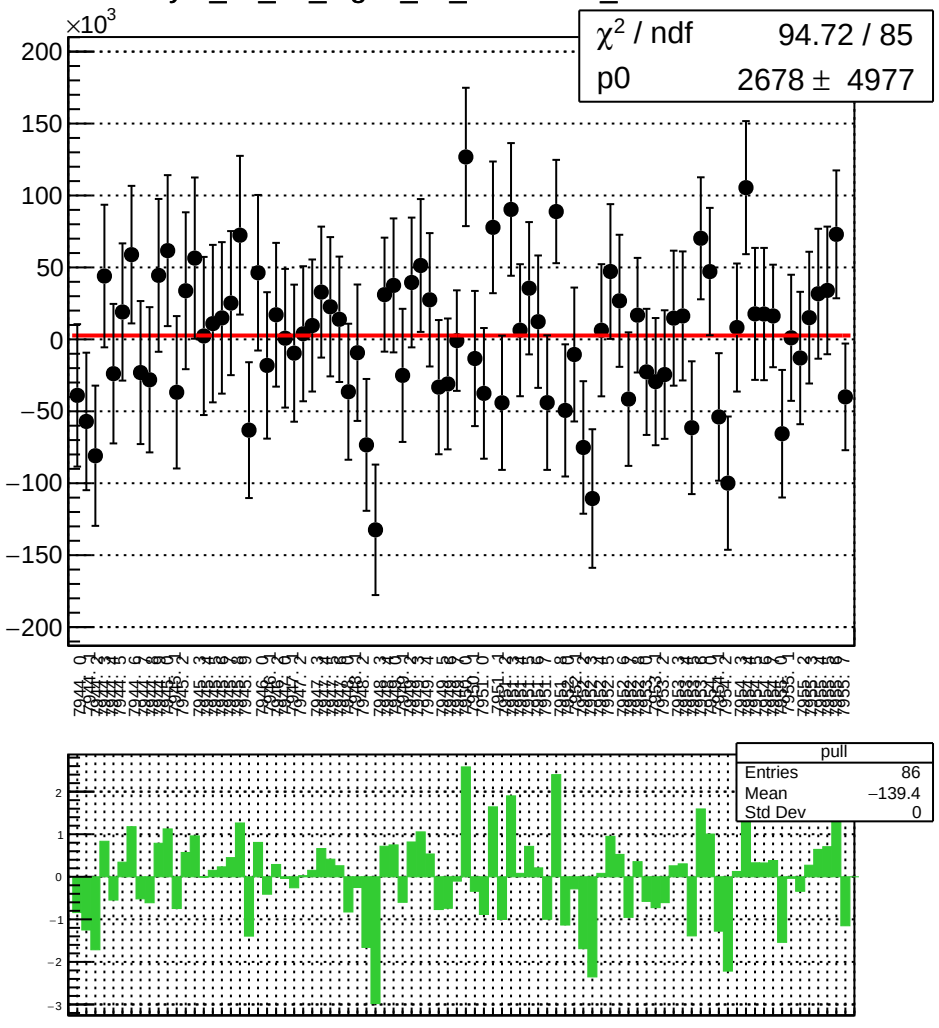

pull1D
Entries 86
Mean −0.002294
Std Dev 1.049

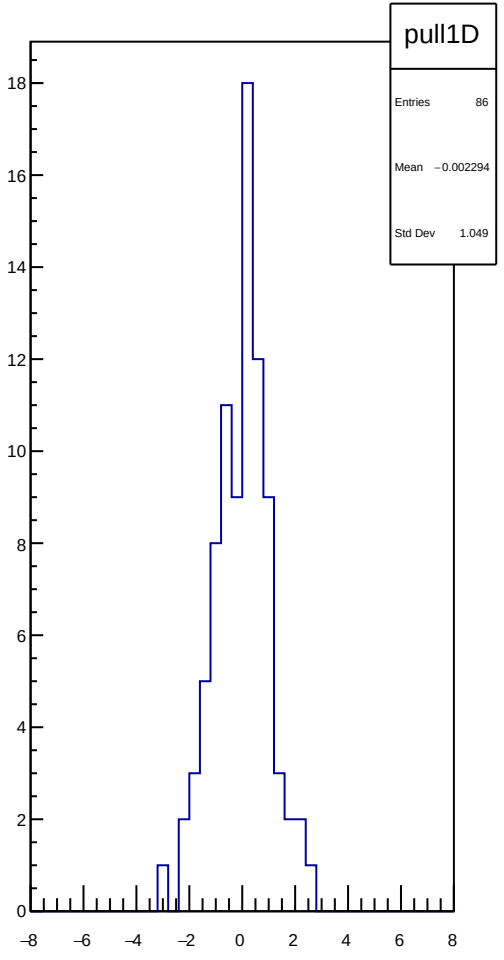

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 5730 / 85
p0 4471 ± 3.52
5400
5200
5000
4800
4600
4400
4200

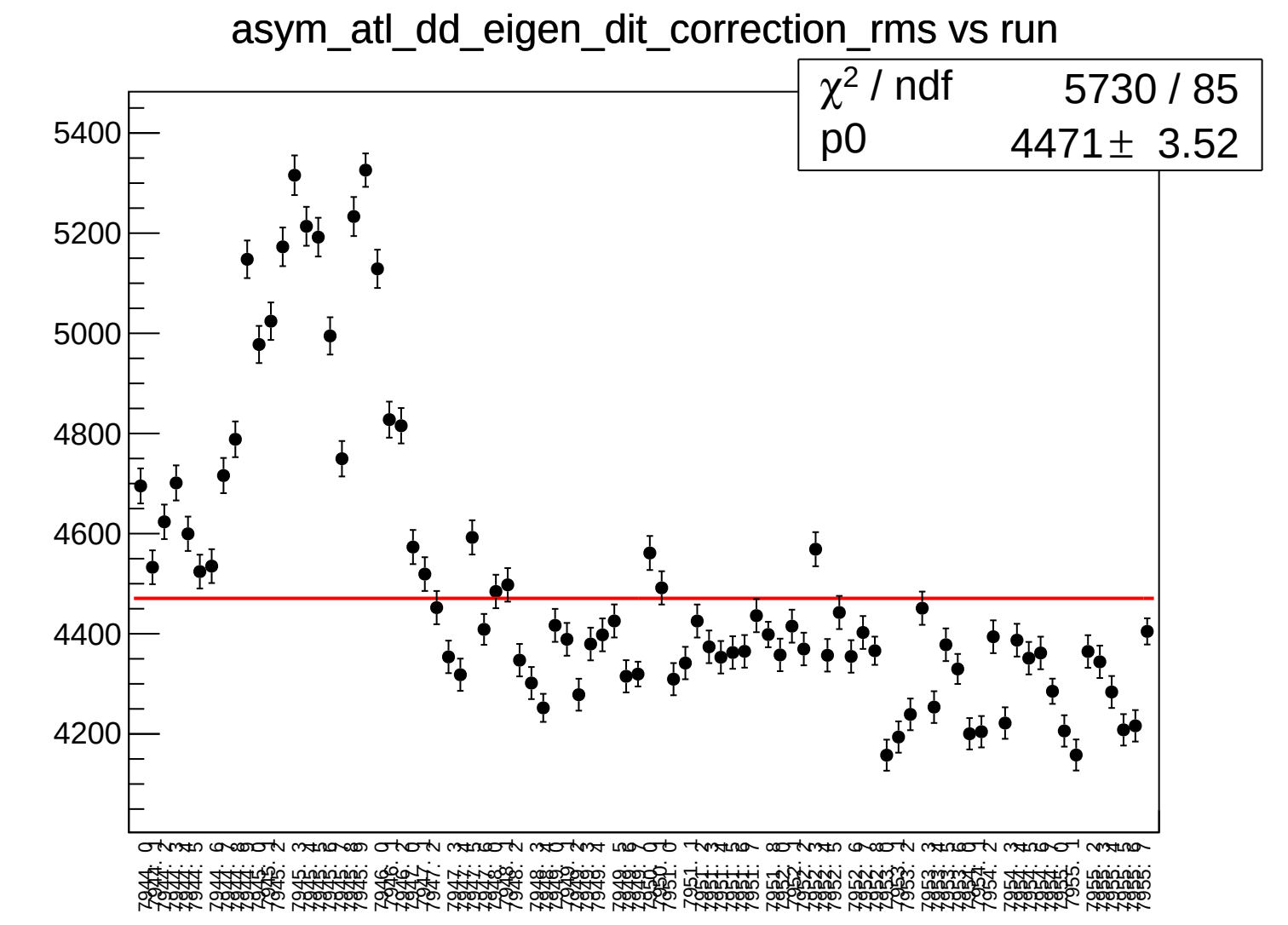

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 79.6 / 85
p0 1760 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 4847
Std Dev 0
2
1
0
−1
−2

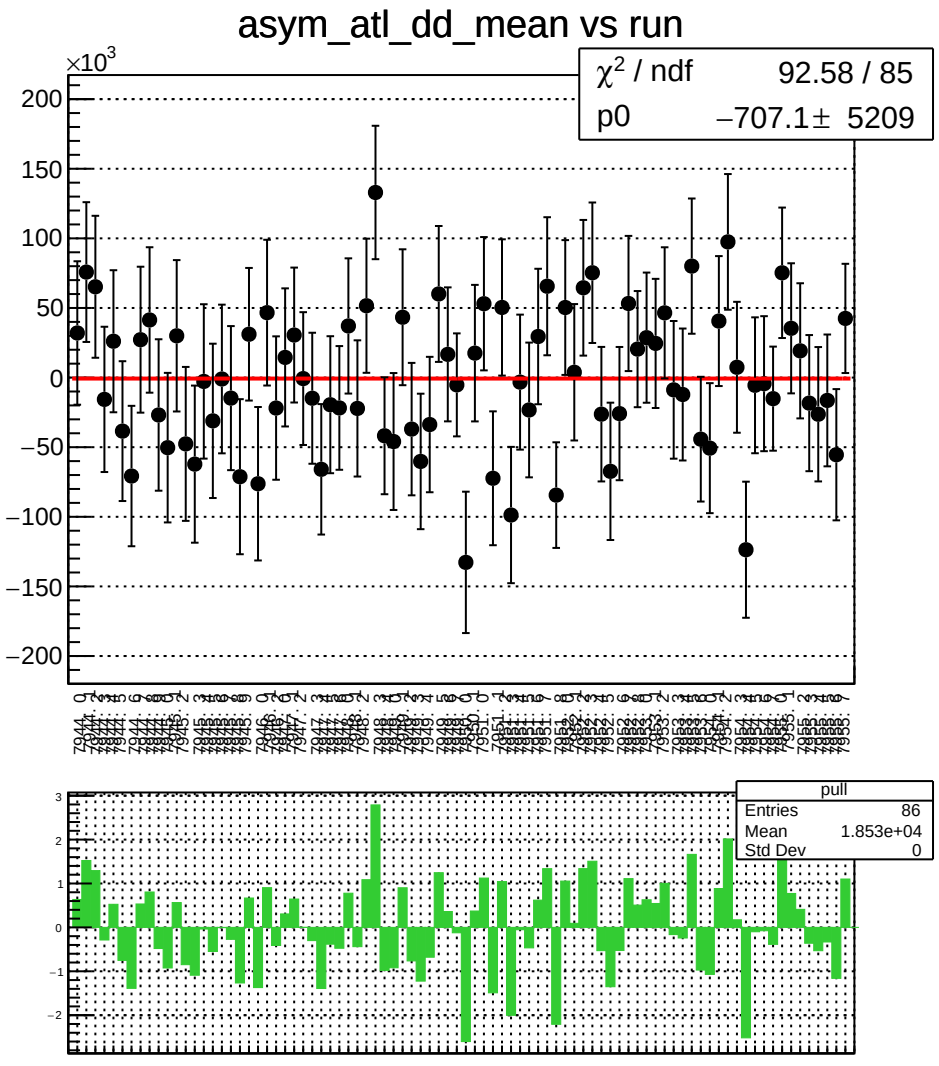

pull1D
Entries 86
Mean 0.0009975
Std Dev 0.9621
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

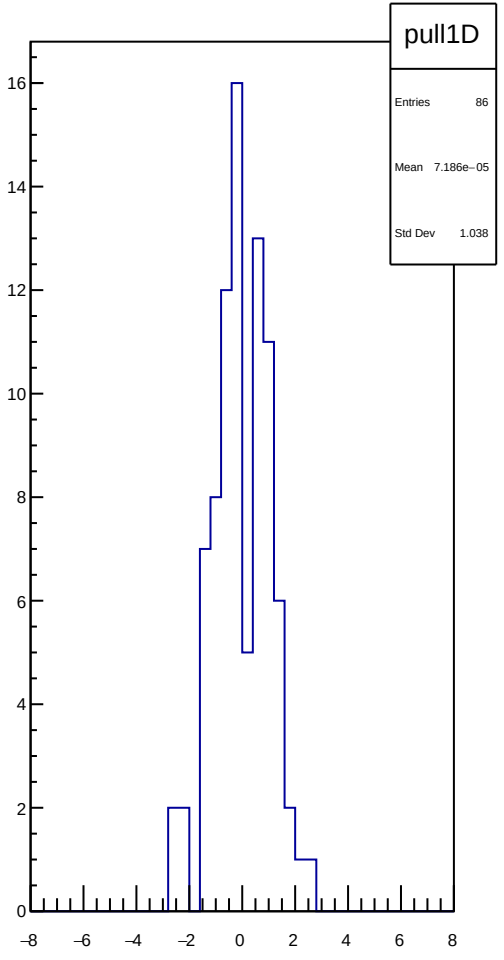

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 268.7 / 85
p0 1629 ± 1.28
1720
1700
1680
1660
1640
1620
1600
1580

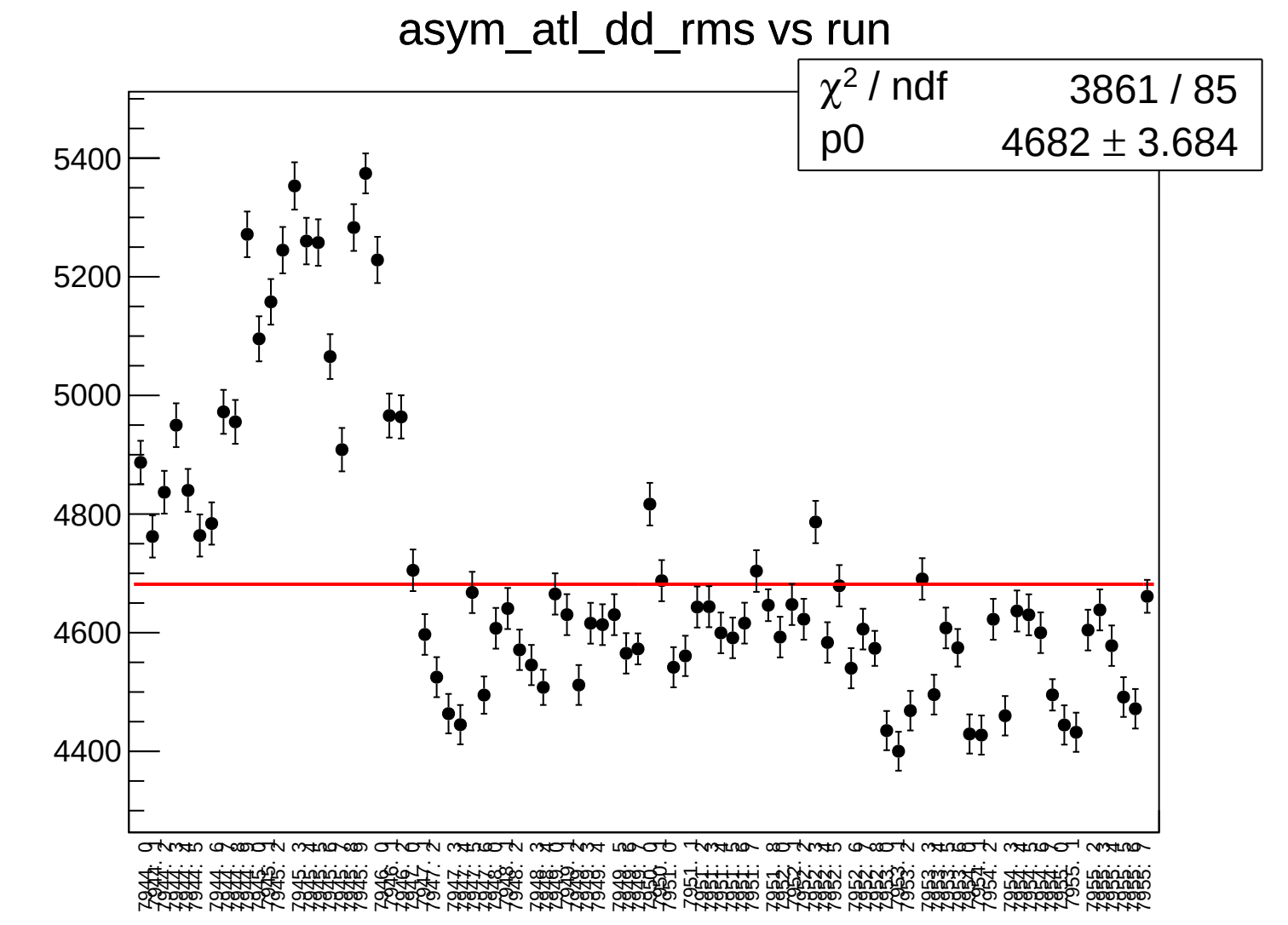

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.72 / 85
p0 2678 ± 4977
pull
Entries 86
Mean −139.4
Std Dev 0

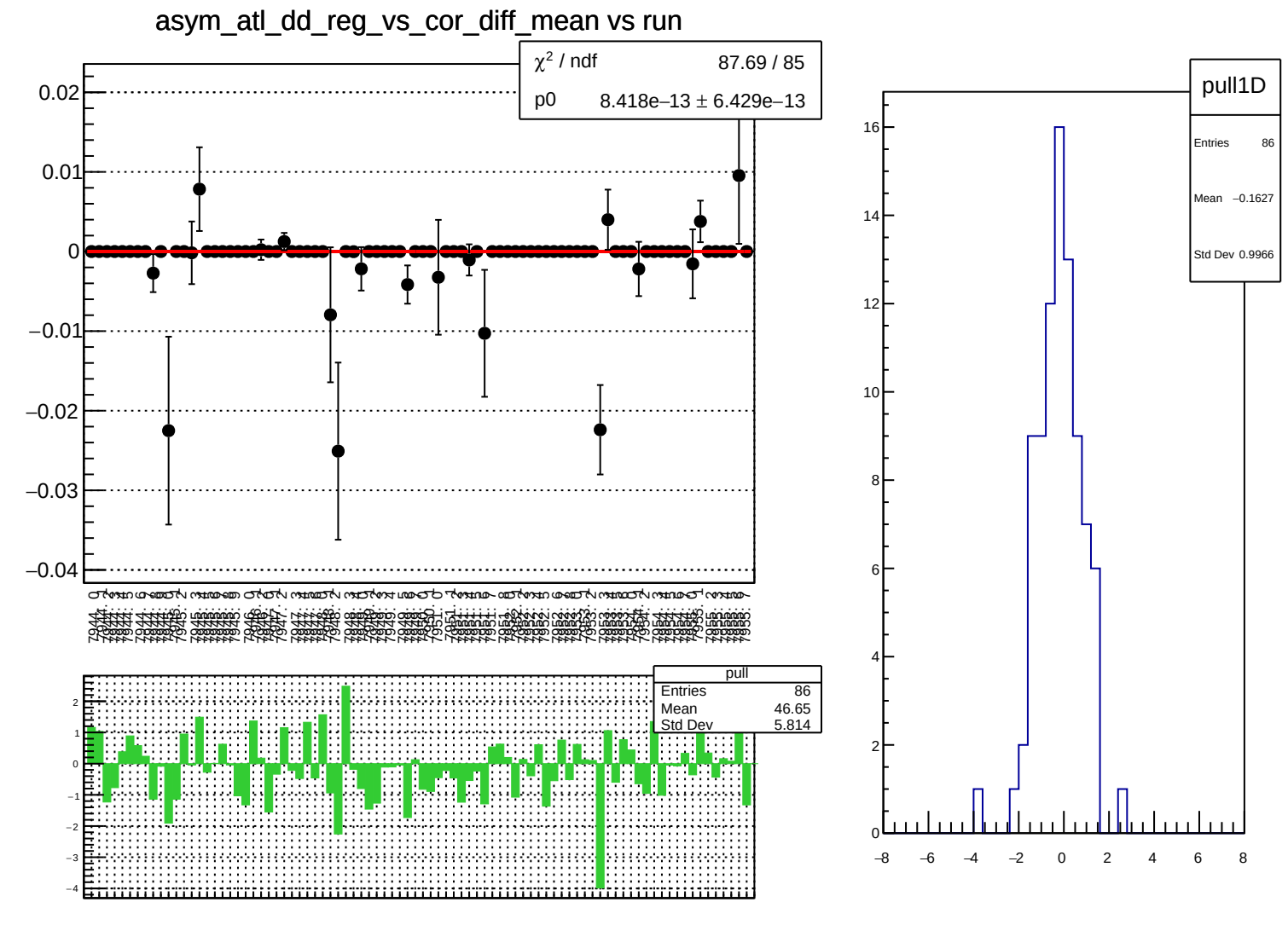

pull1D
Entries 86
Mean −0.002294
Std Dev 1.049

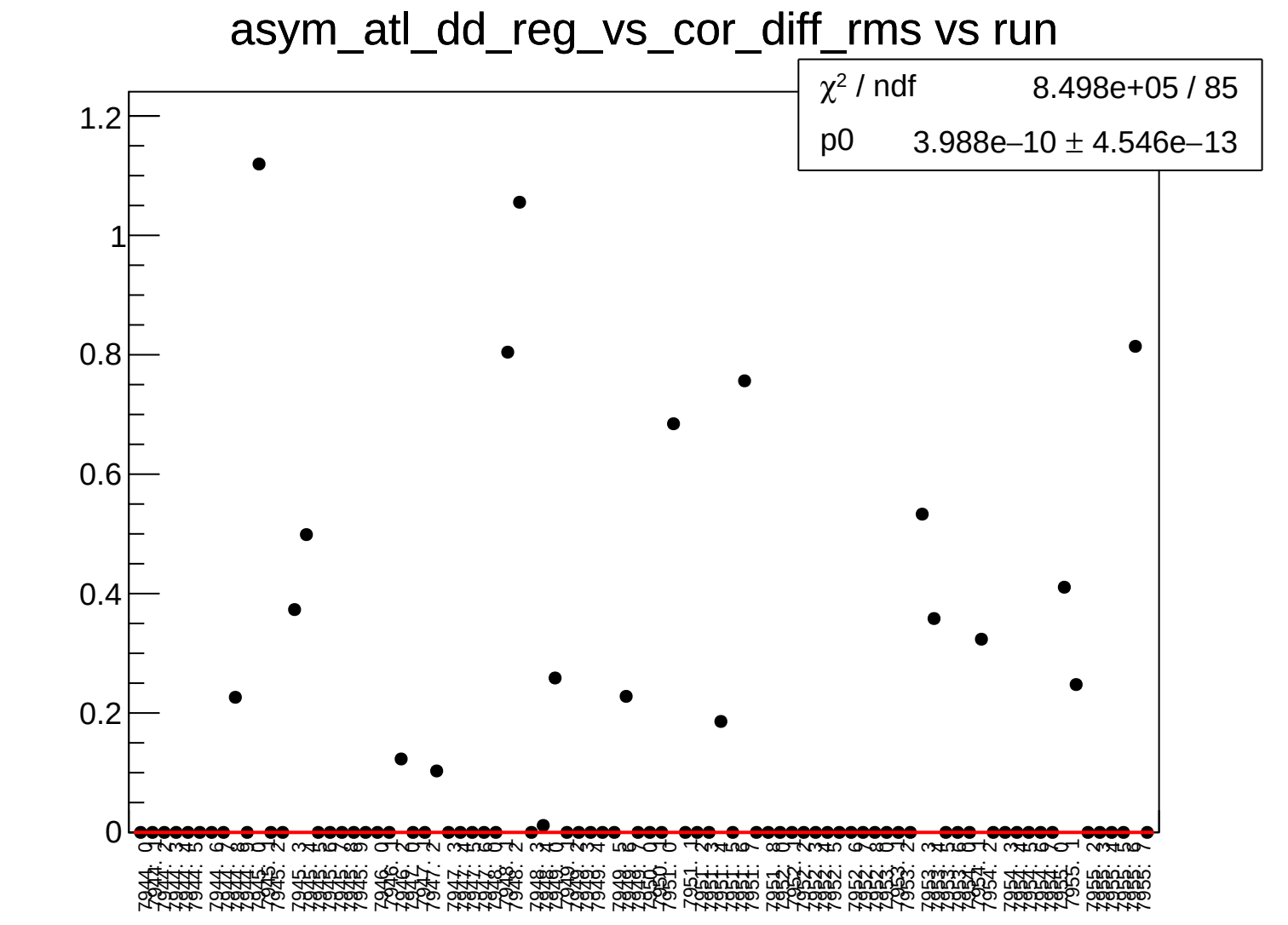

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 5730 / 85
p0 4471 ± 3.52
5400
5200
5000
4800
4600
4400
4200

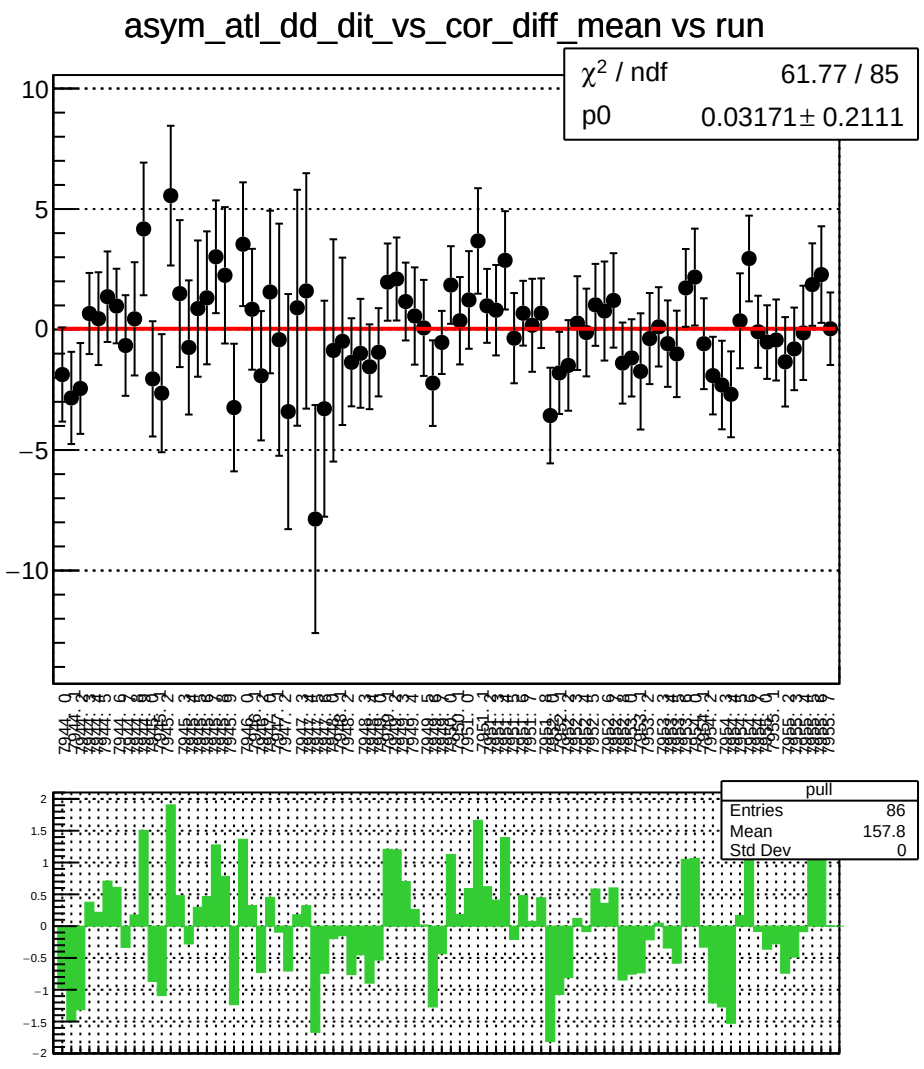

asym_atl_dd_mean vs run
×10^3
χ² / ndf 92.58 / 85
p0 −707.1± 5209
pull
Entries 86
Mean 1.853e+04
Std Dev 0

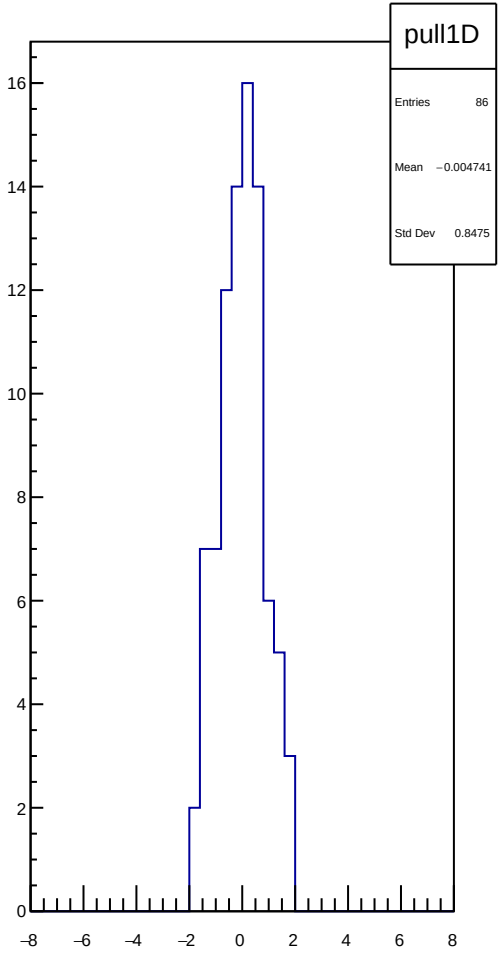

pull1D
Entries 86
Mean 7.186e−05
Std Dev 1.038

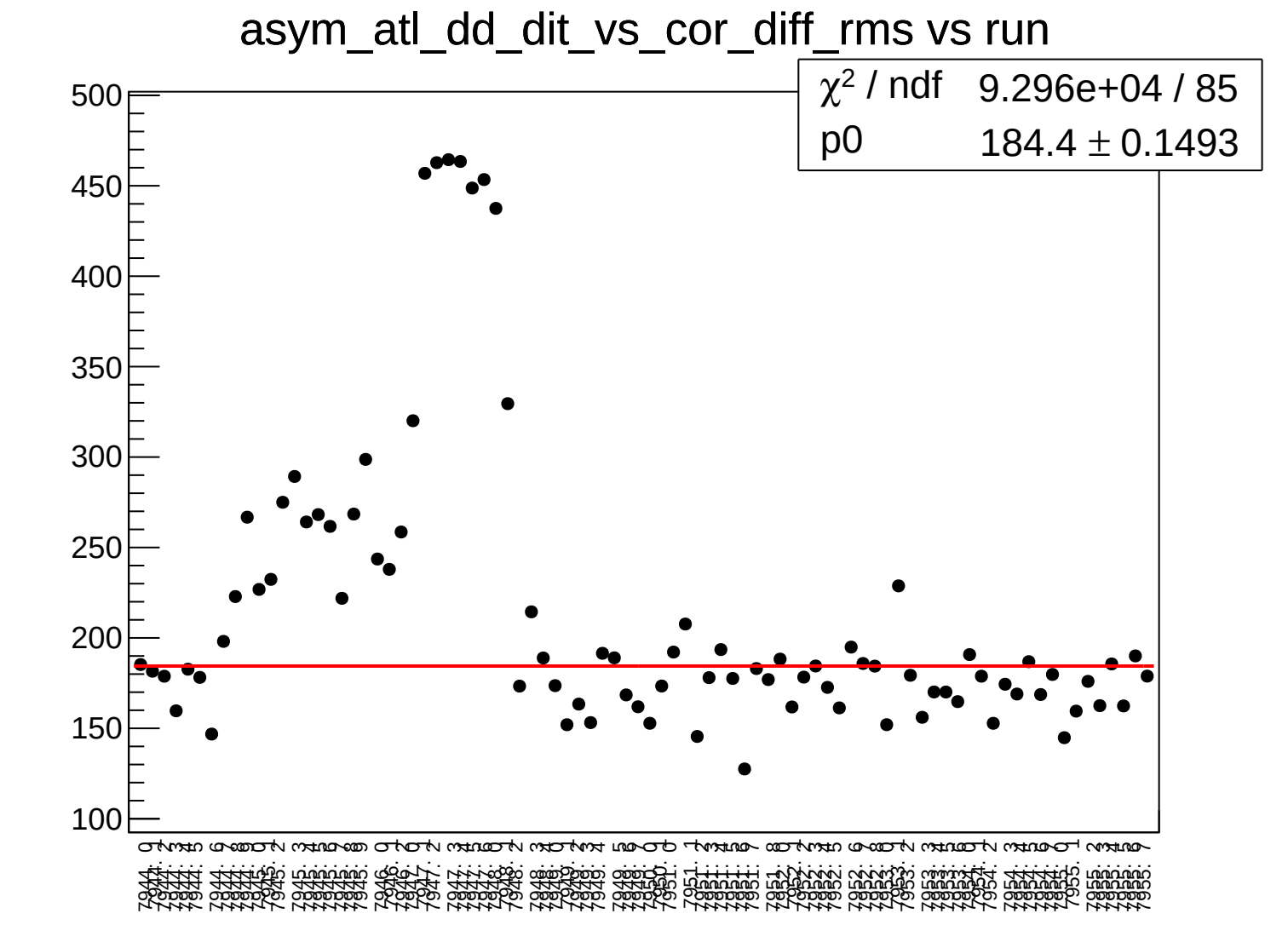

asym_atl_dd_rms vs run
χ^2 / ndf 3861 / 85
p0 4682 ± 3.684
5400
5200
5000
4800
4600
4400

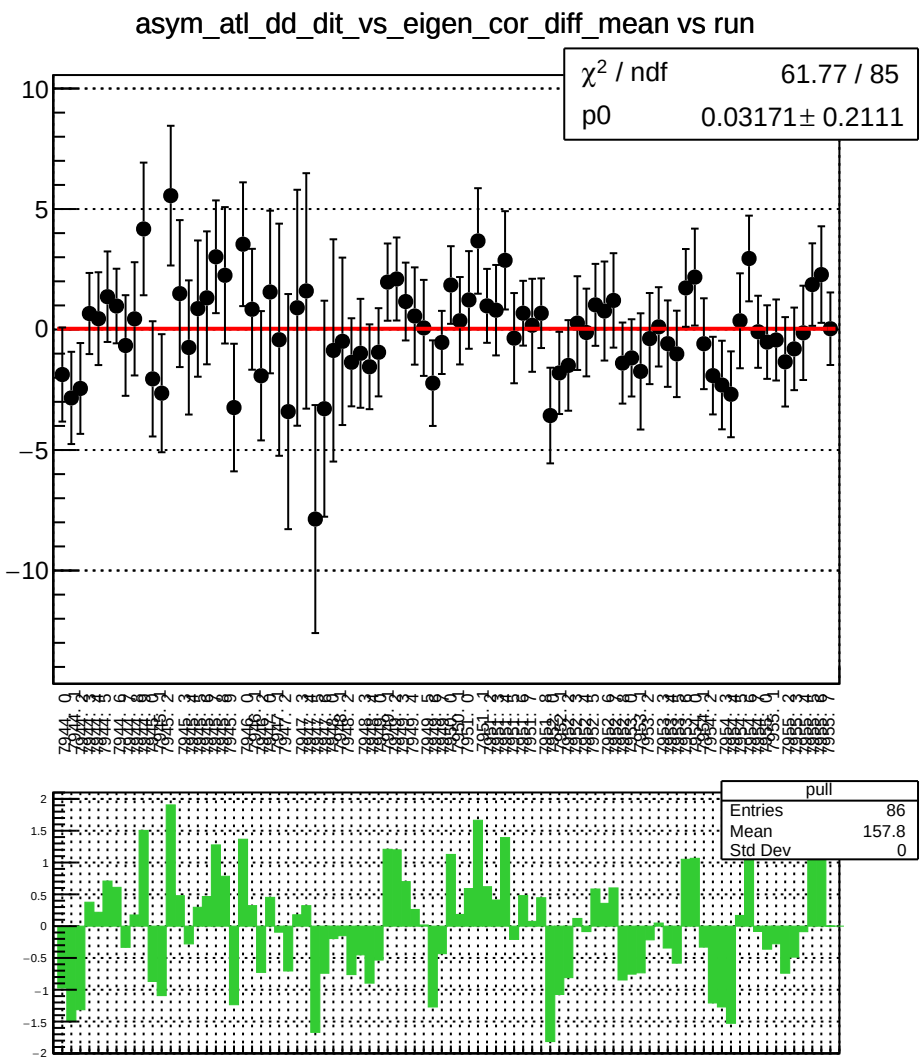

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.69 / 85
p0 8.418e−13 ± 6.429e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 86
Mean 46.65
Std Dev 5.814
pull1D
Entries 86
Mean −0.1627
Std Dev 0.9966

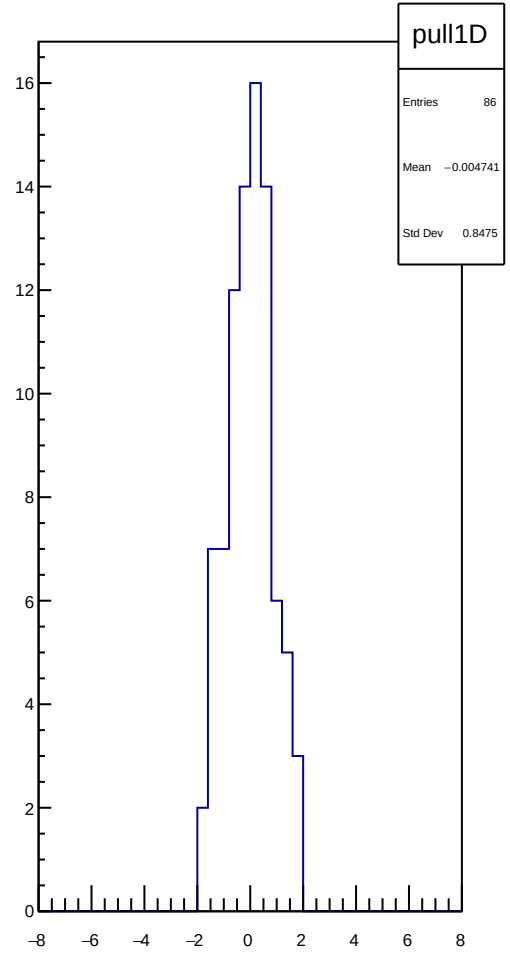

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.498e+05 / 85
p0 3.988e−10 ± 4.546e−13
1.2
1
0.8
0.6
0.4
0.2
0

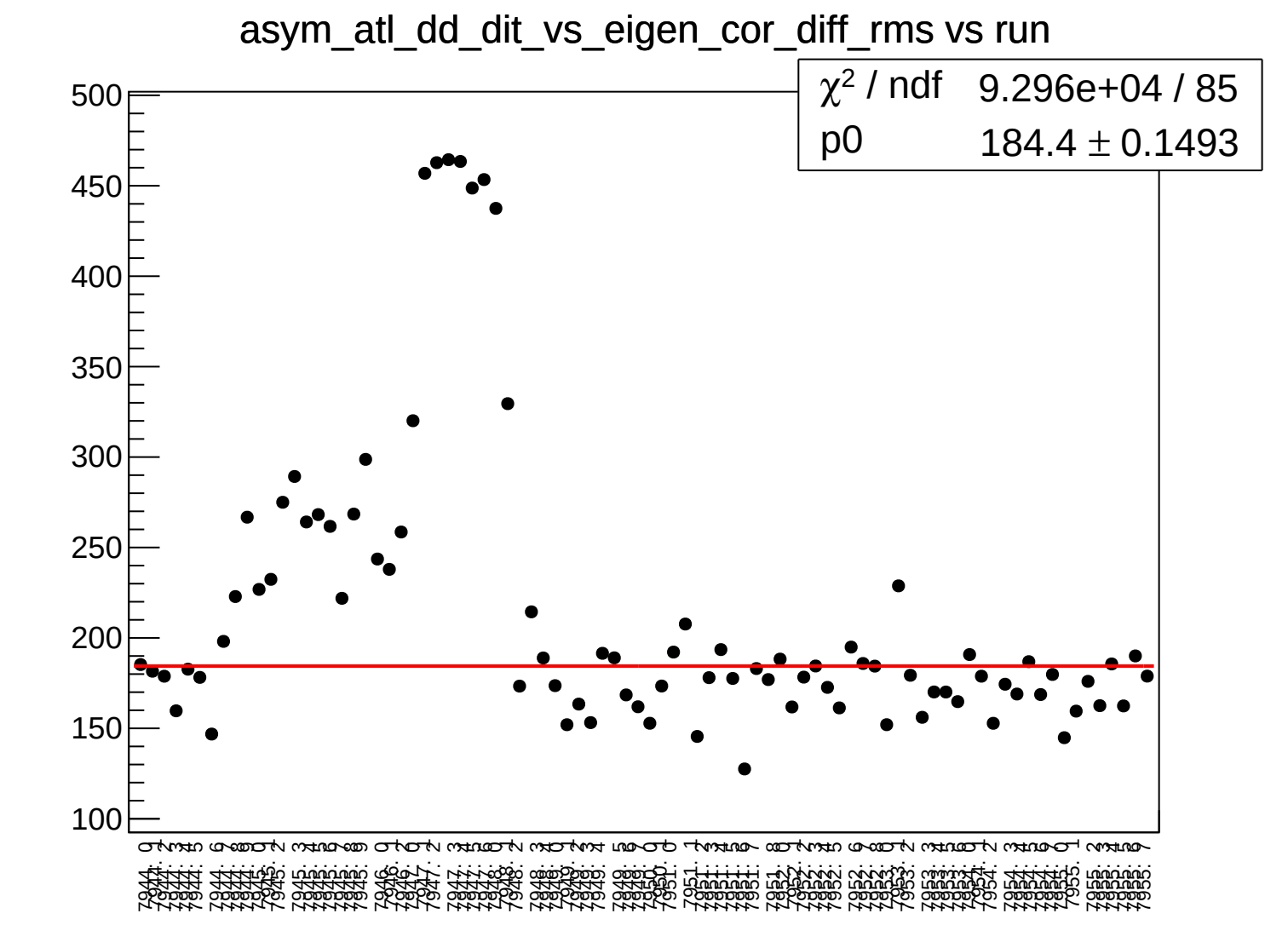

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.77 / 85
p0 0.03171± 0.2111
pull
Entries 86
Mean 157.8
Std Dev 0

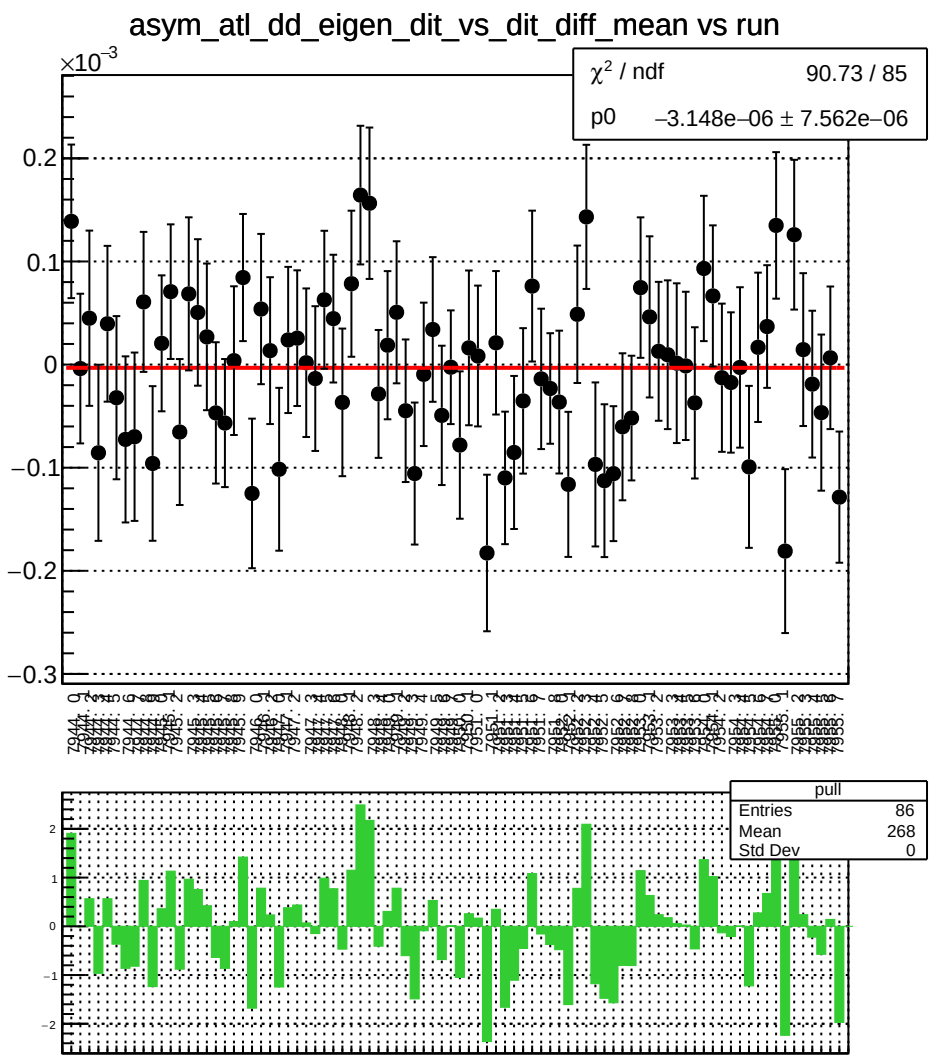

pull1D
Entries 86
Mean −0.004741
Std Dev 0.8475

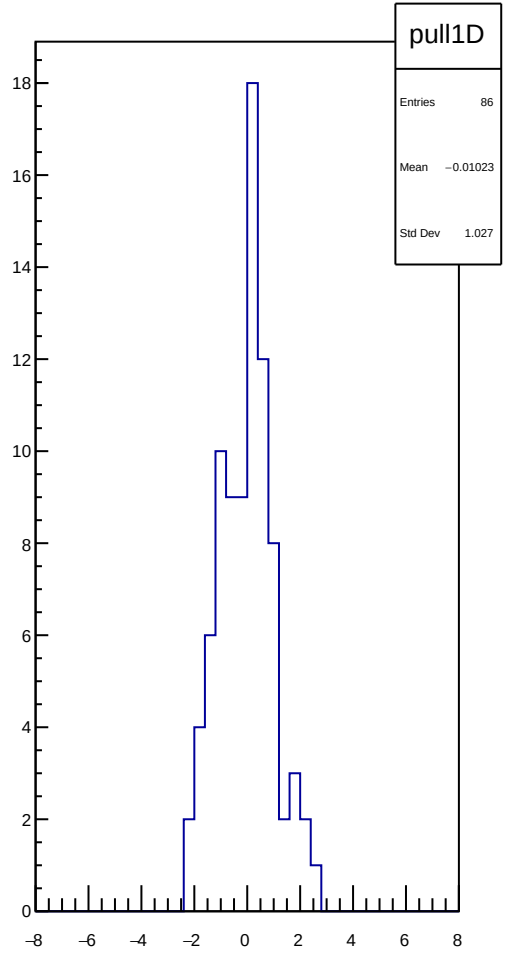

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.296e+04 / 85
p0 184.4 ± 0.1493
500
450
400
350
300
250
200
150
100

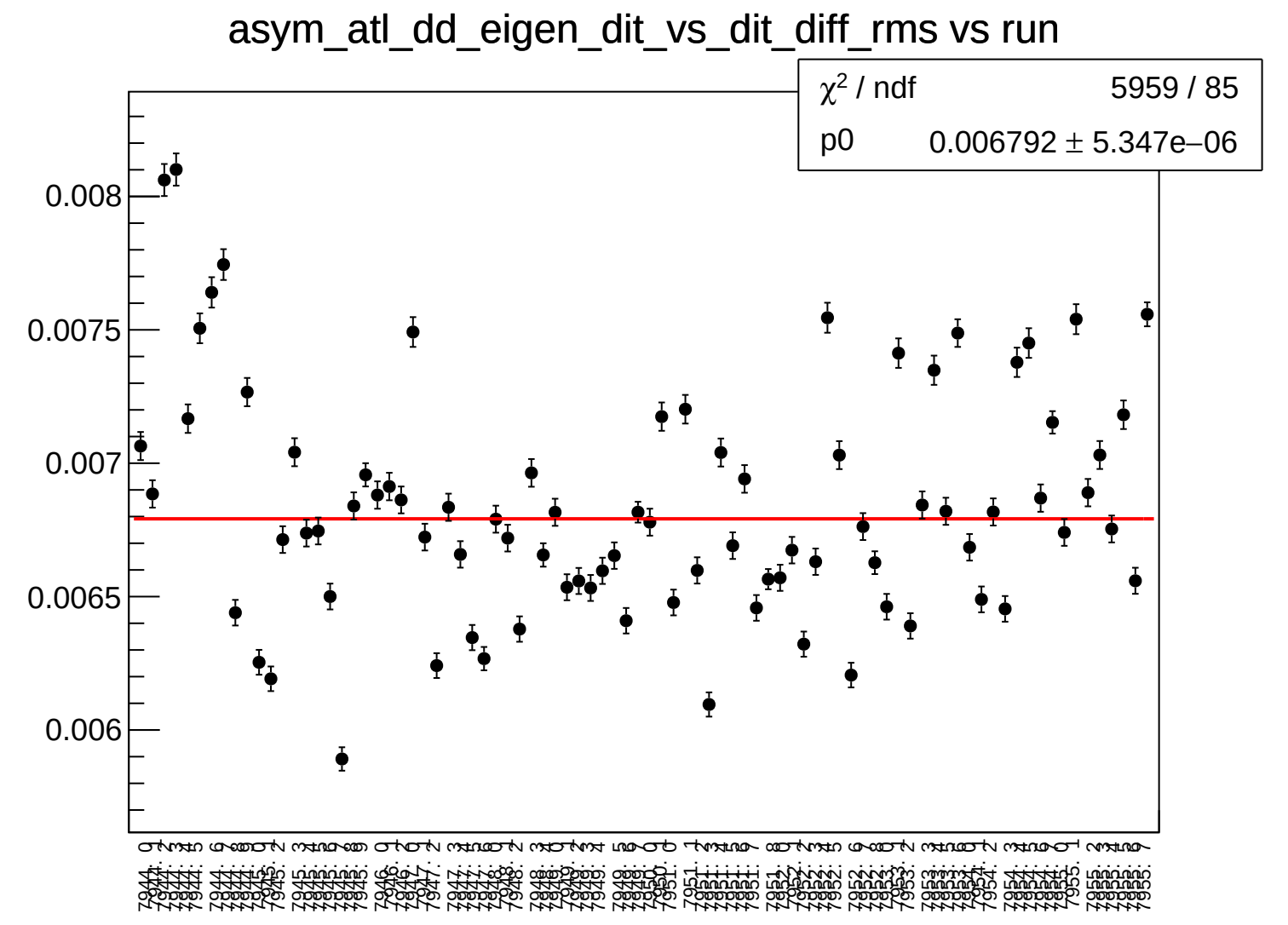

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.77 / 85
p0 0.03171± 0.2111
pull
Entries 86
Mean 157.8
Std Dev 0

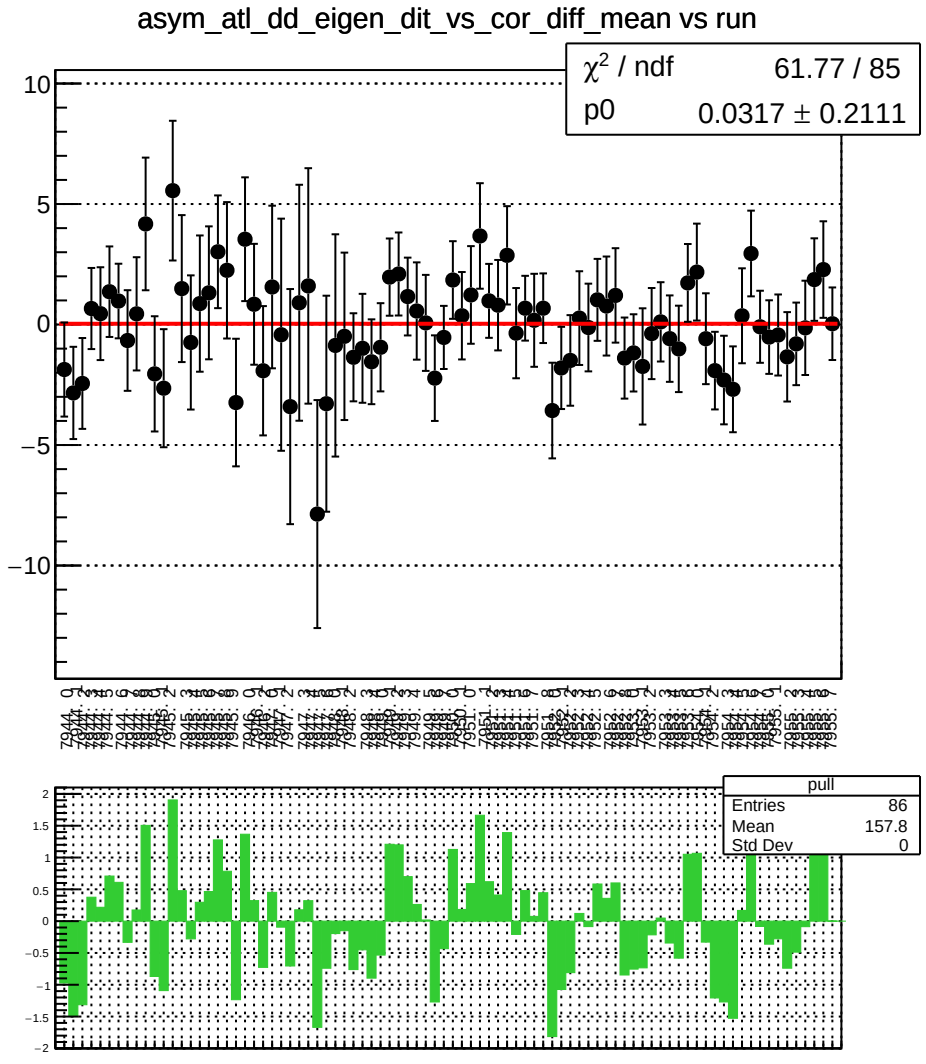

pull1D
Entries 86
Mean −0.004741
Std Dev 0.8475

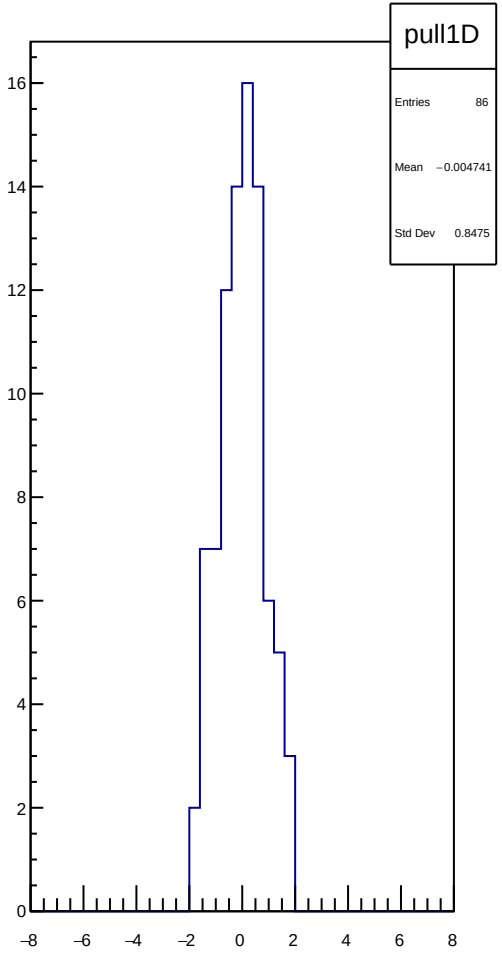

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.296e+04 / 85
p0 184.4 ± 0.1493
500
450
400
350
300
250
200
150
100

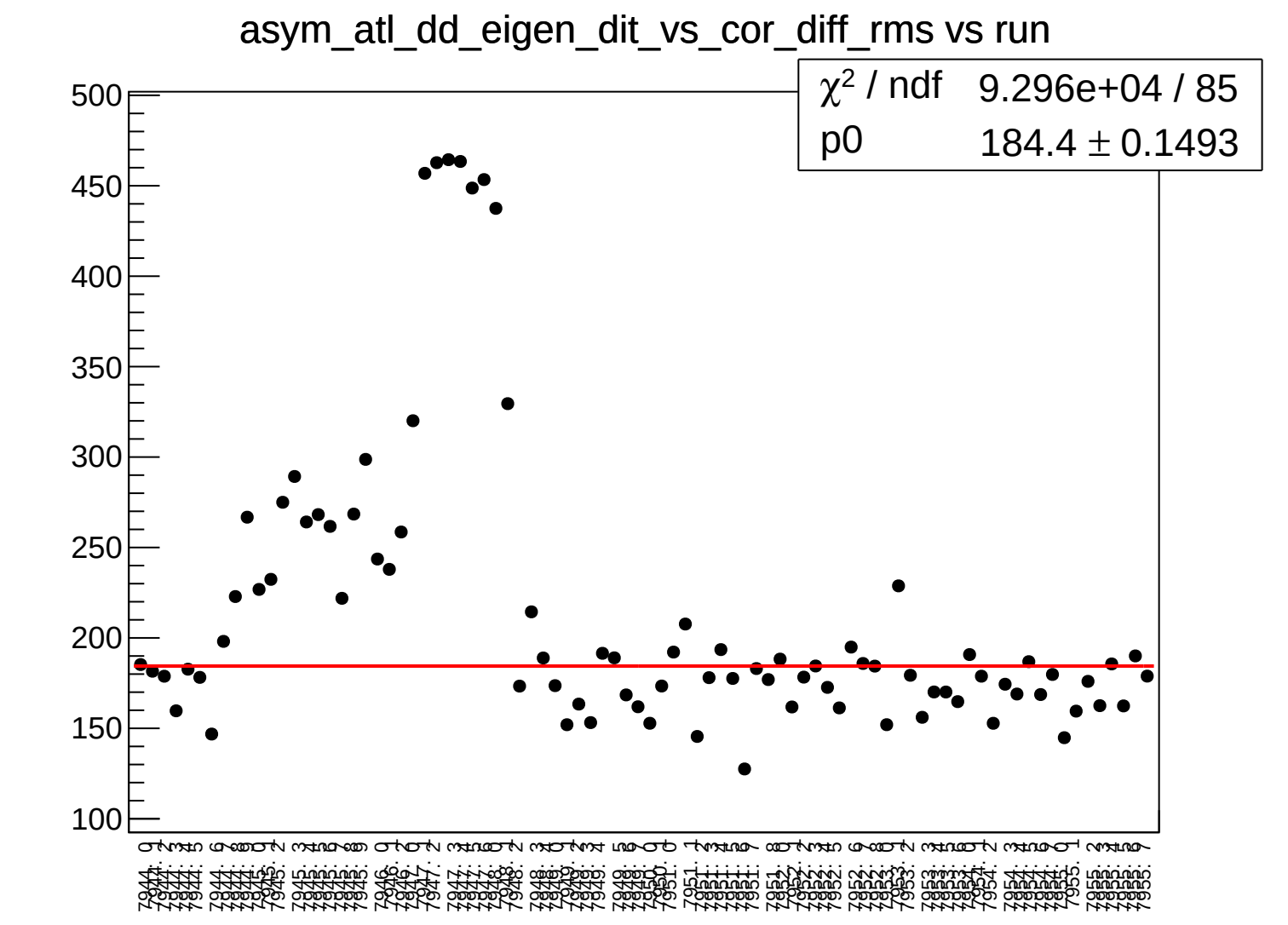

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.73 / 85
p0 −3.148e−06 ± 7.562e−06
pull
Entries 86
Mean 268
Std Dev 0

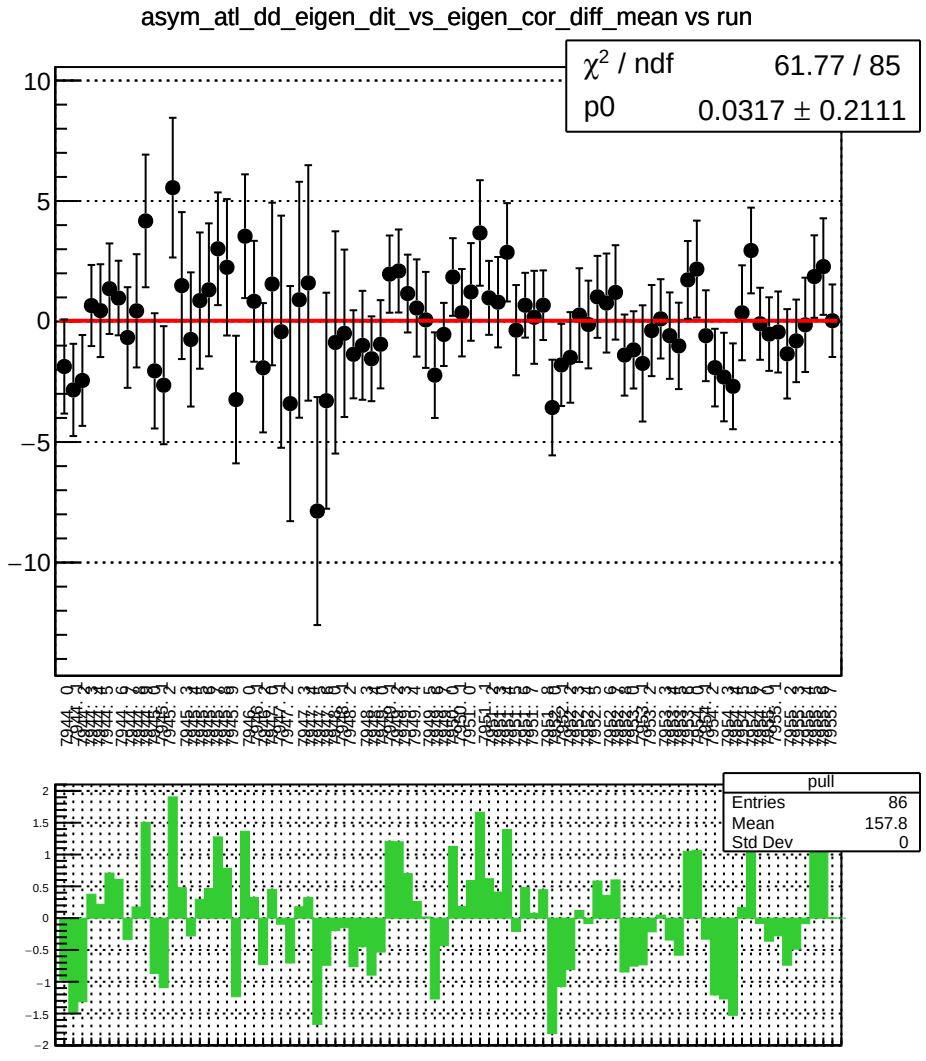

pull1D
Entries 86
Mean −0.01023
Std Dev 1.027

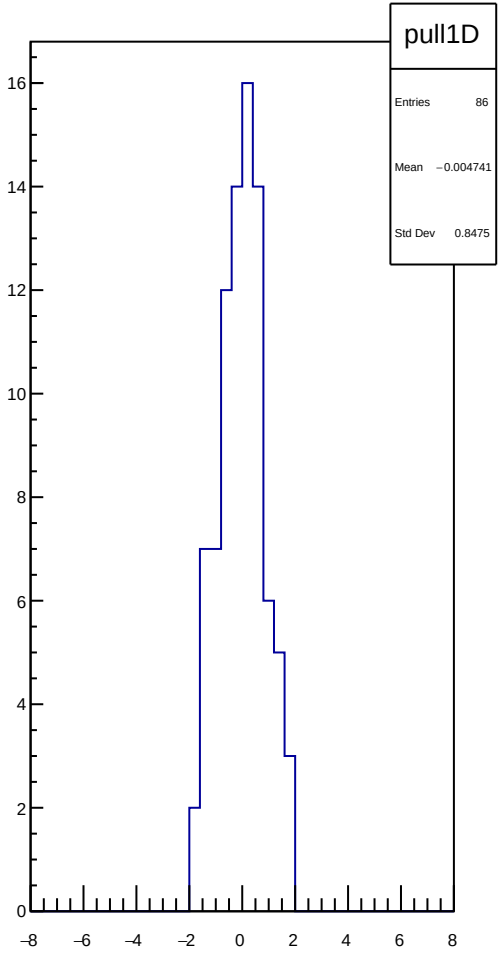

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5959 / 85
p0 0.006792 ± 5.347e−06
0.008
0.0075
0.007
0.0065
0.006

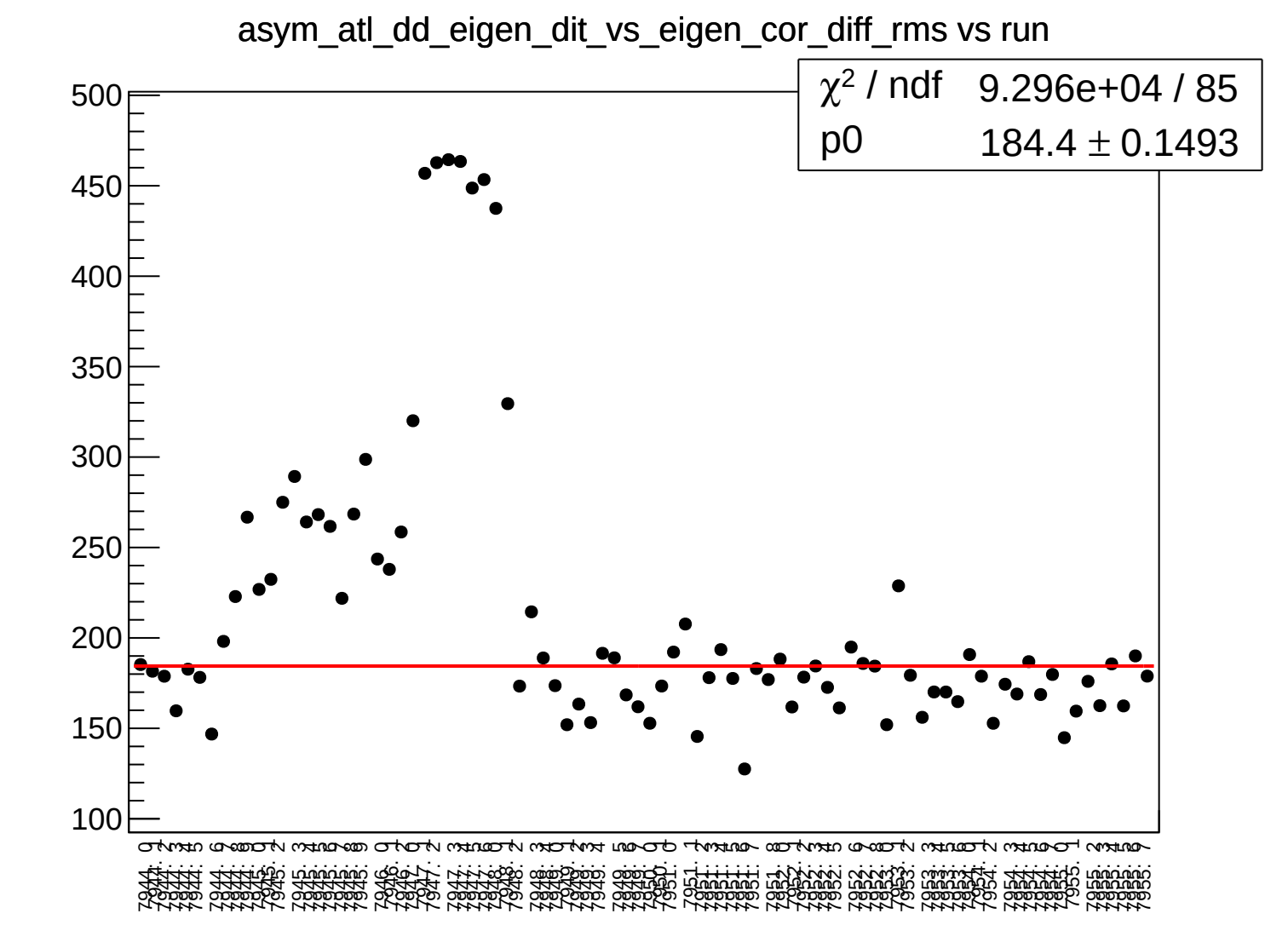

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.77 / 85
p0 0.0317 ± 0.2111
pull
Entries 86
Mean 157.8
Std Dev 0

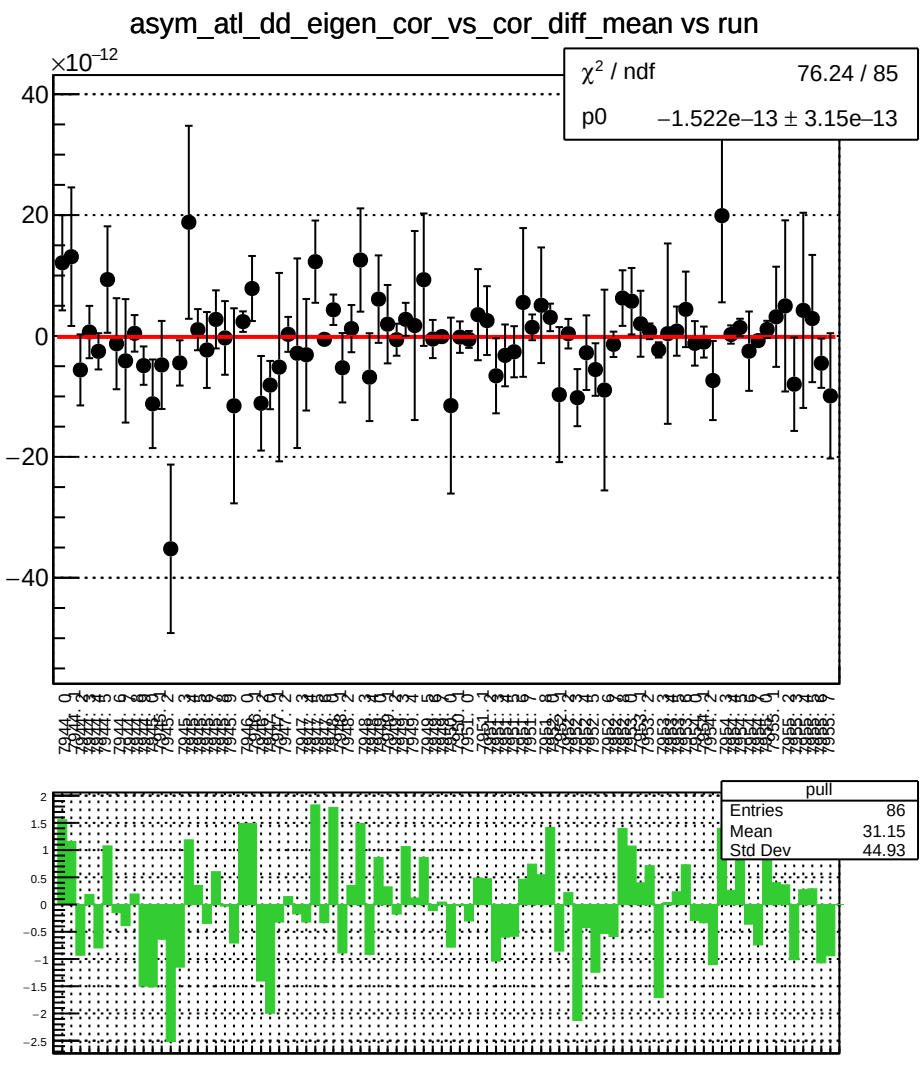

pull1D
Entries 86
Mean −0.004741
Std Dev 0.8475

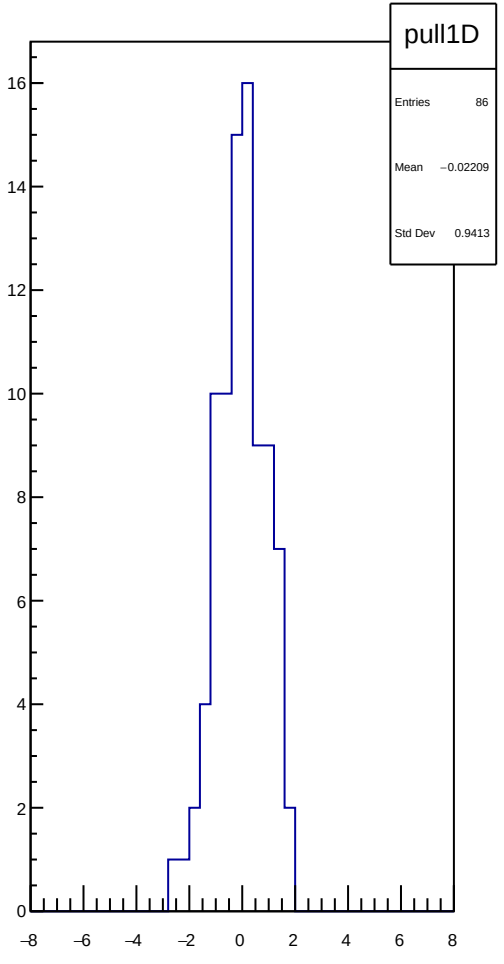

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.296e+04 / 85
p0 184.4 ± 0.1493
500
450
400
350
300
250
200
150
100

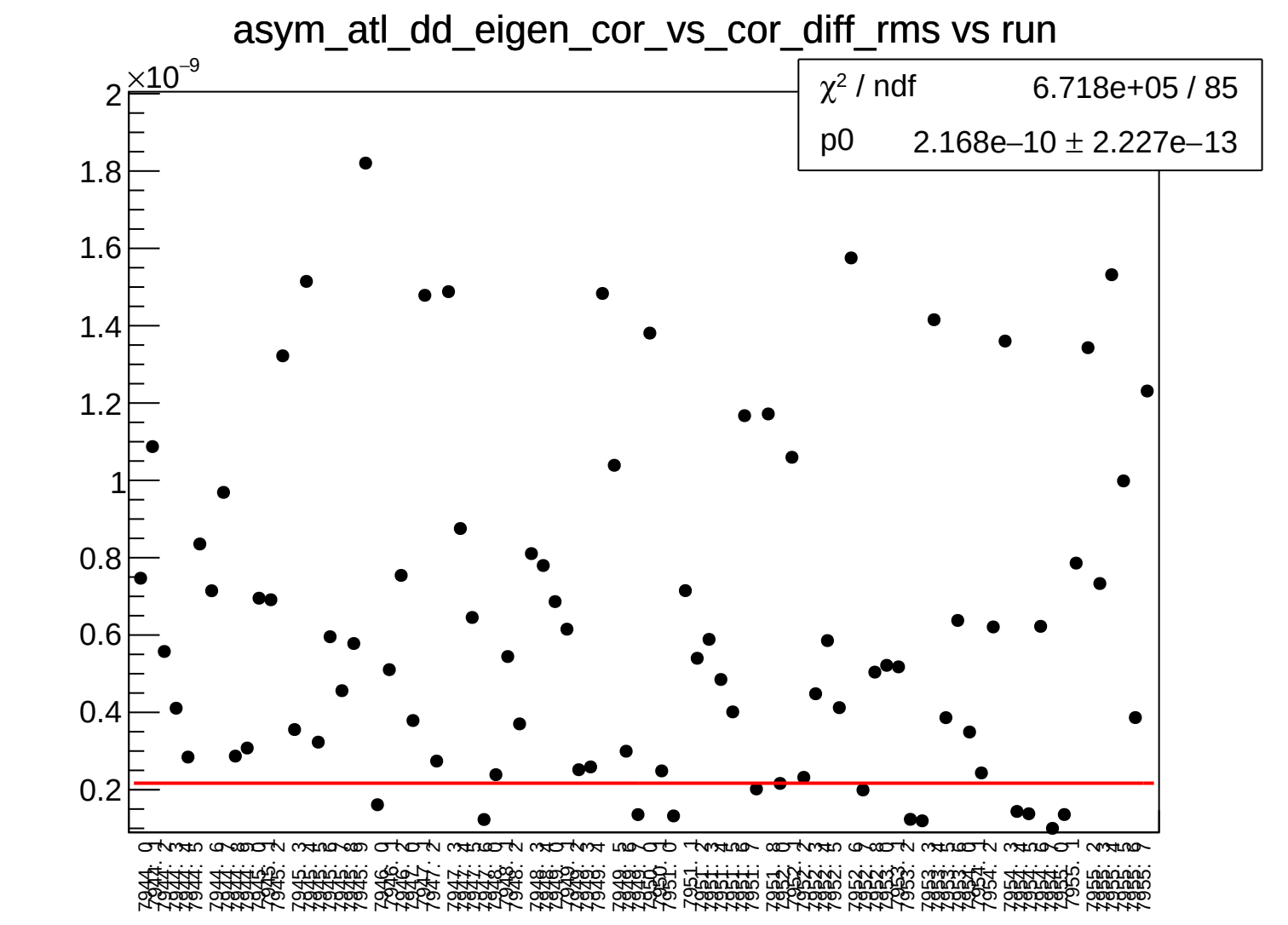

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.77 / 85
p0 0.0317 ± 0.2111
pull
Entries 86
Mean 157.8
Std Dev 0

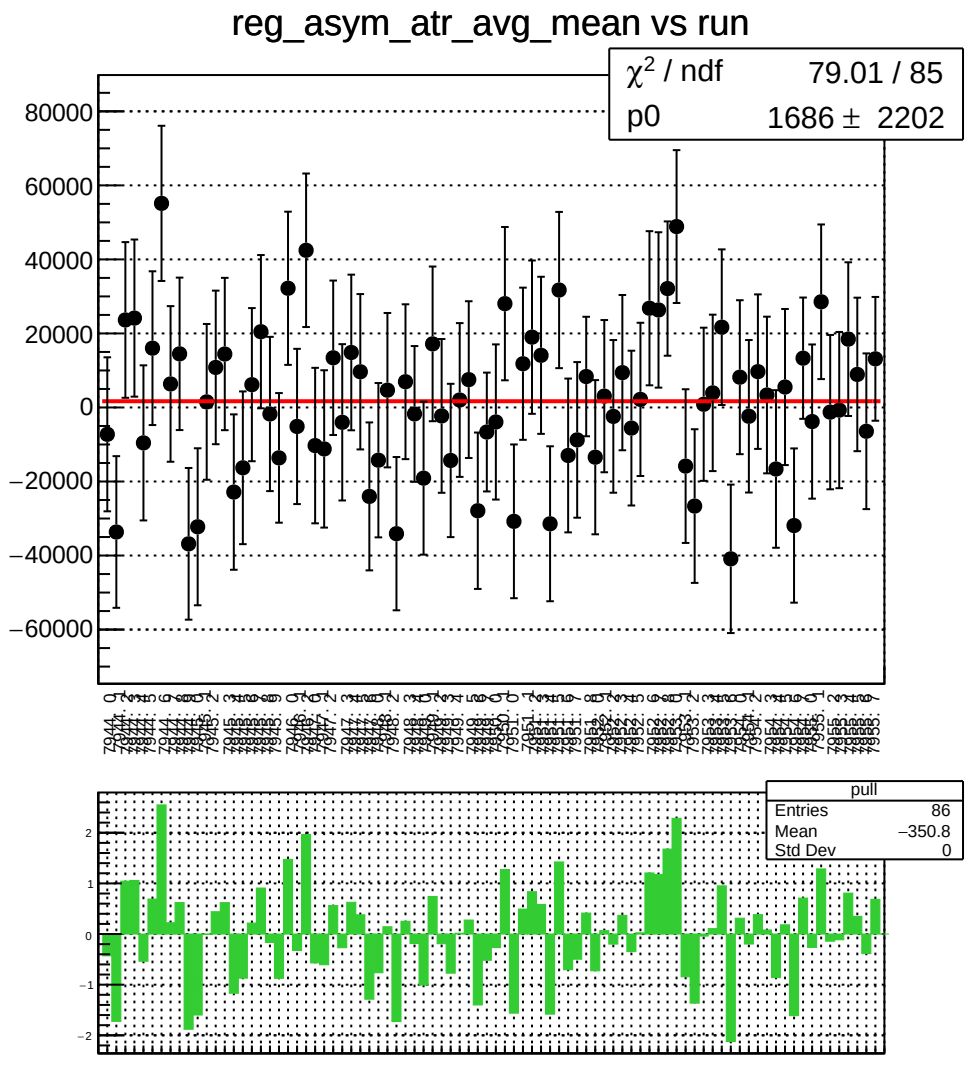

pull1D
Entries 86
Mean −0.004741
Std Dev 0.8475

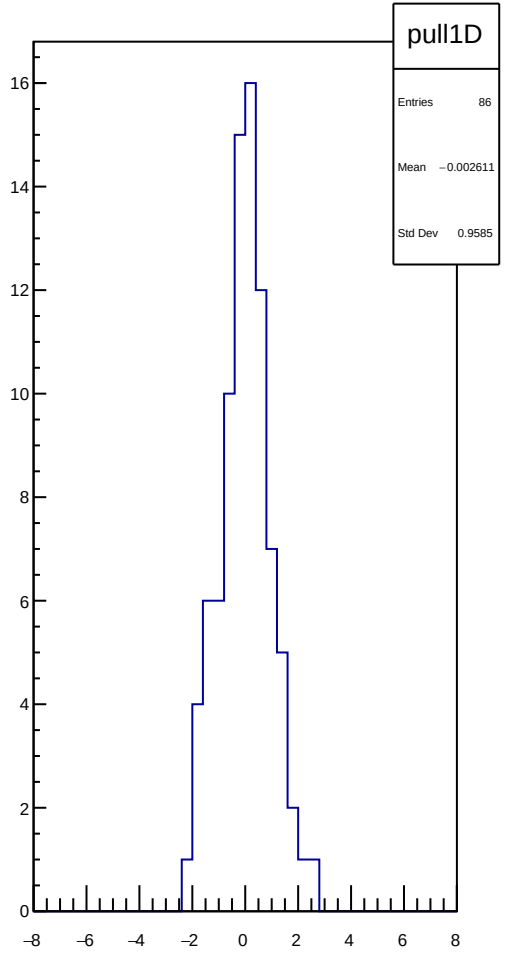

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.296e+04 / 85
p0 184.4 ± 0.1493
500
450
400
350
300
250
200
150
100

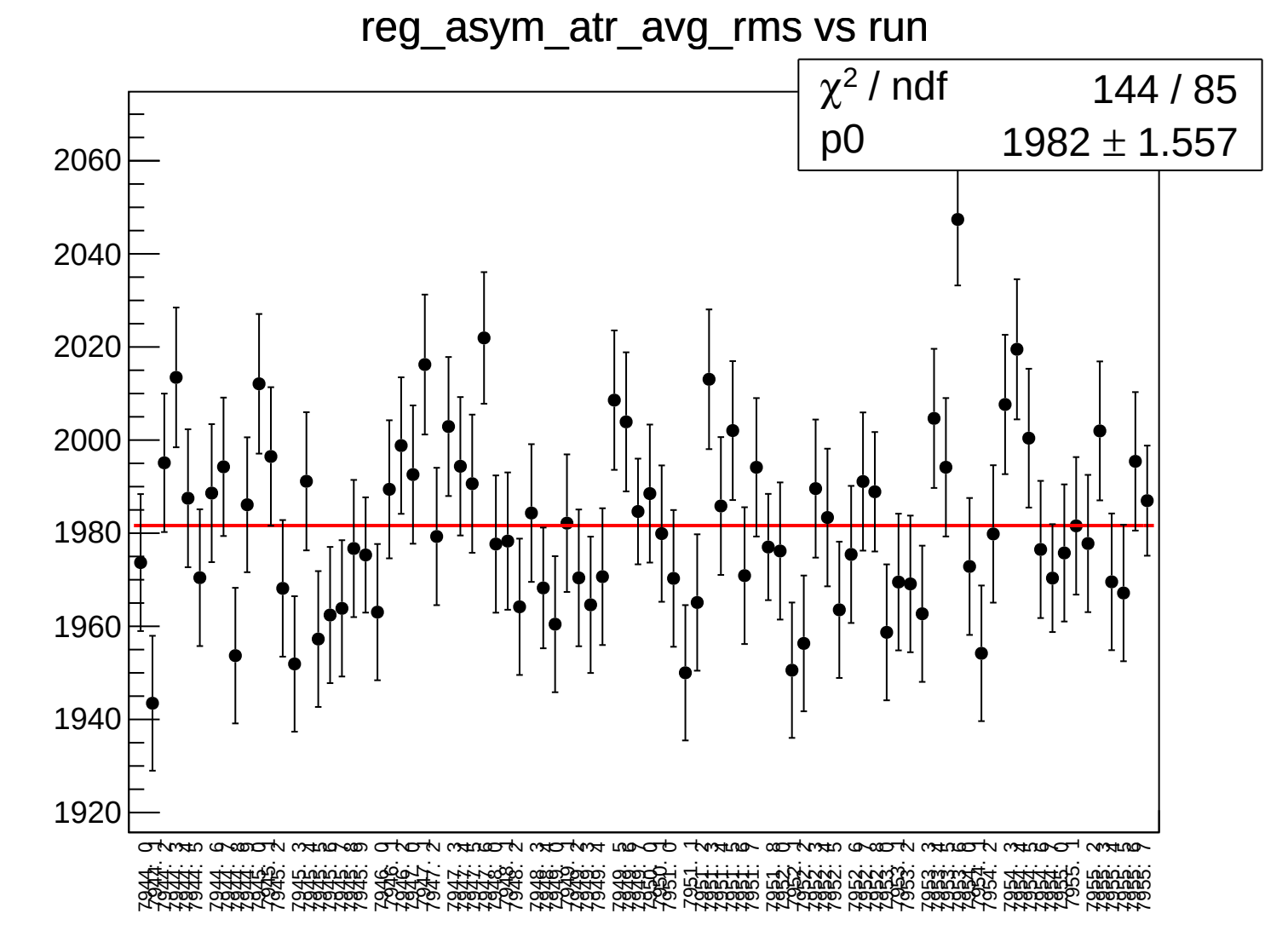

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.24 / 85
p0 −1.522e−13 ± 3.15e−13
pull
Entries 86
Mean 31.15
Std Dev 44.93

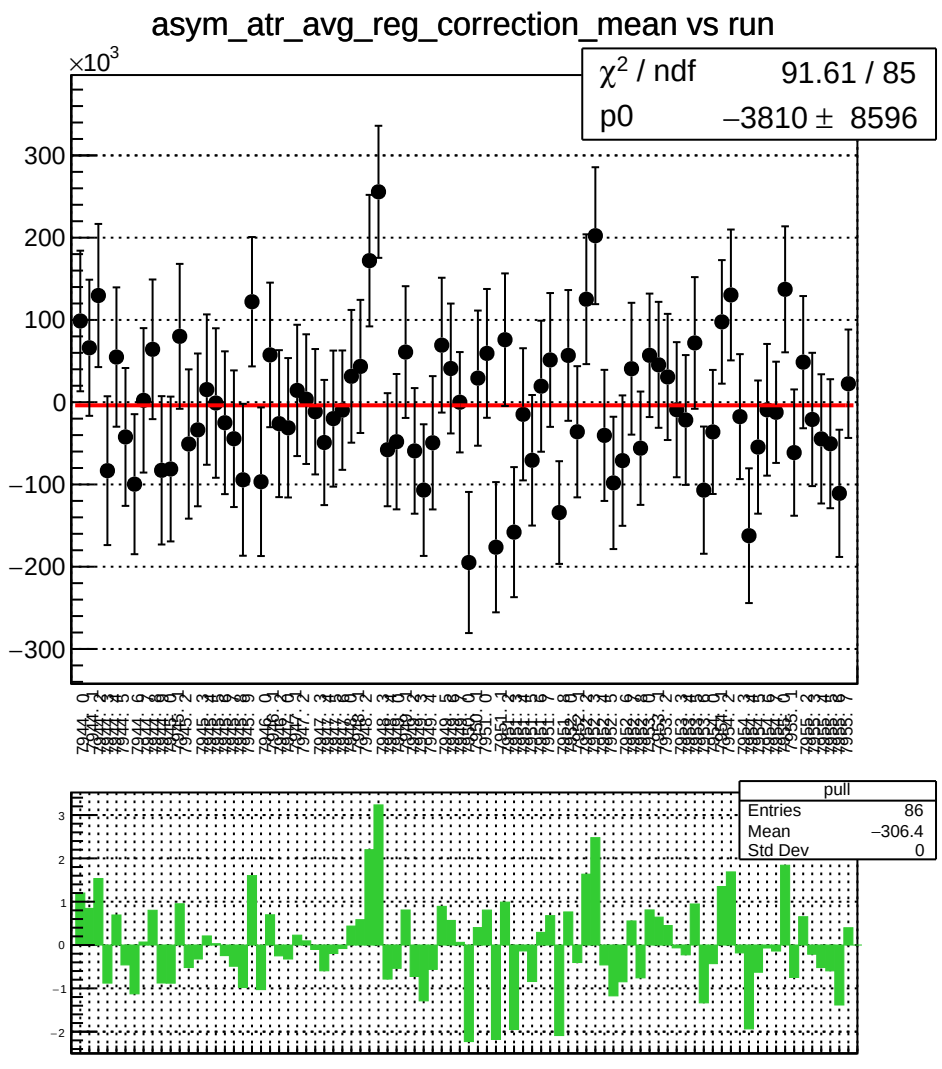

pull1D
Entries 86
Mean −0.02209
Std Dev 0.9413

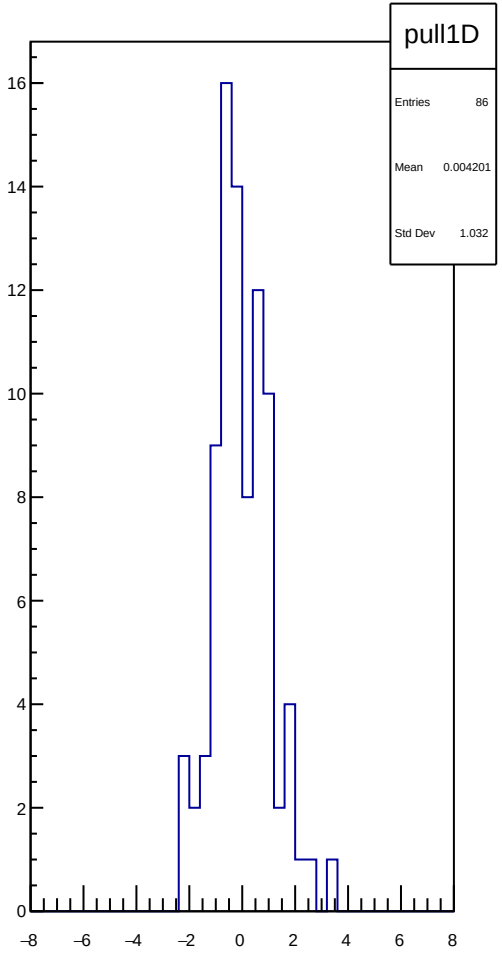

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.718e+05 / 85
p0 2.168e−10 ± 2.227e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

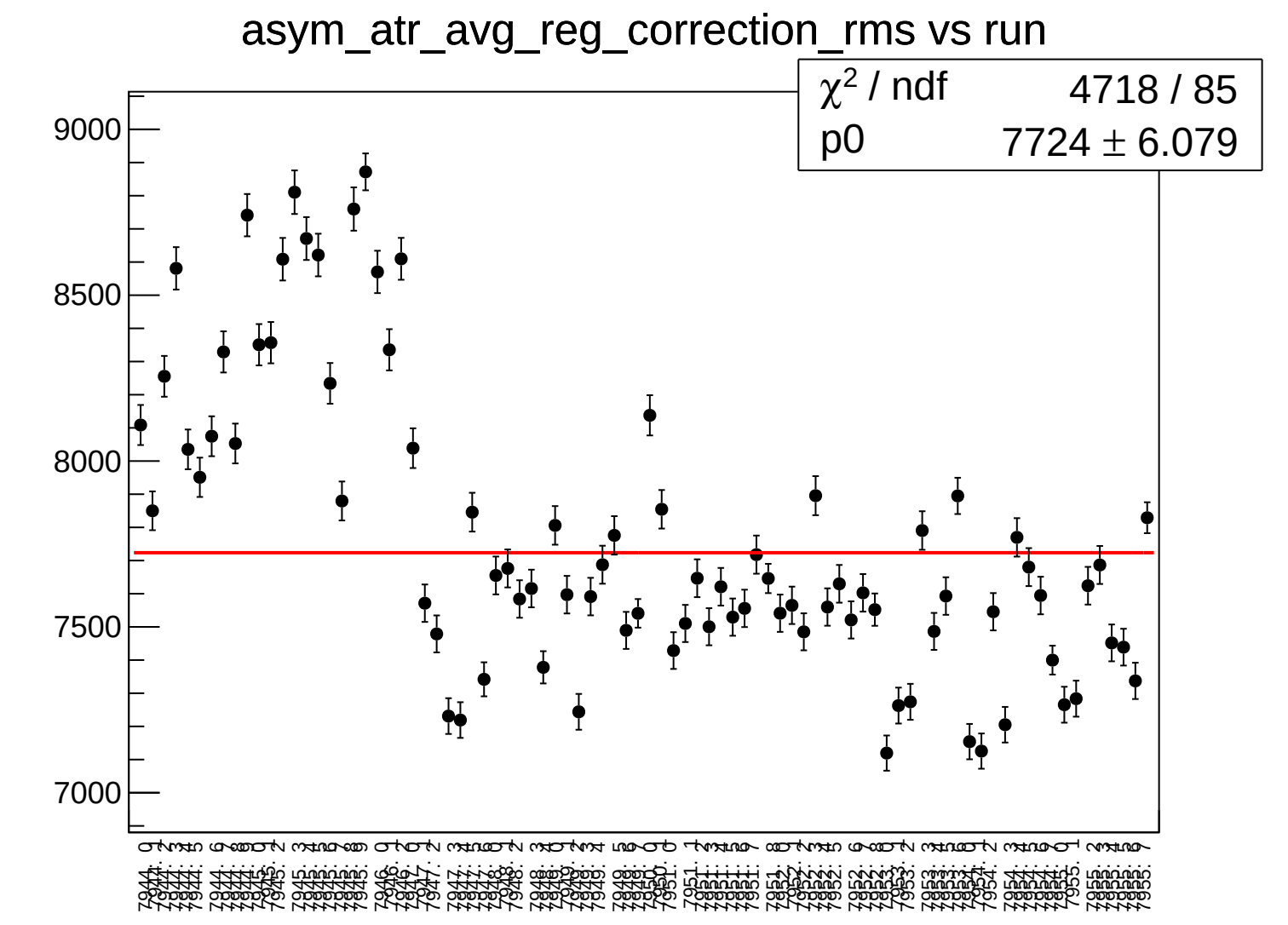

reg_asym_atr_avg_mean vs run
χ² / ndf 79.01 / 85
p0 1686 ± 2202
pull
Entries 86
Mean −350.8
Std Dev 0

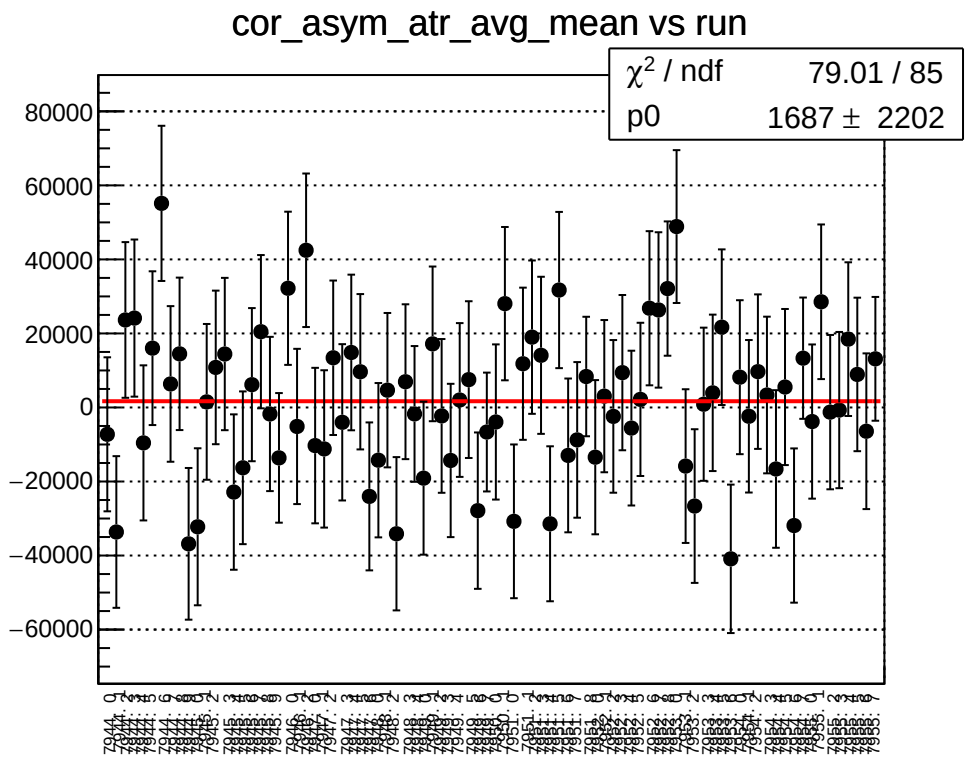

pull1D
Entries 86
Mean −0.002611
Std Dev 0.9585

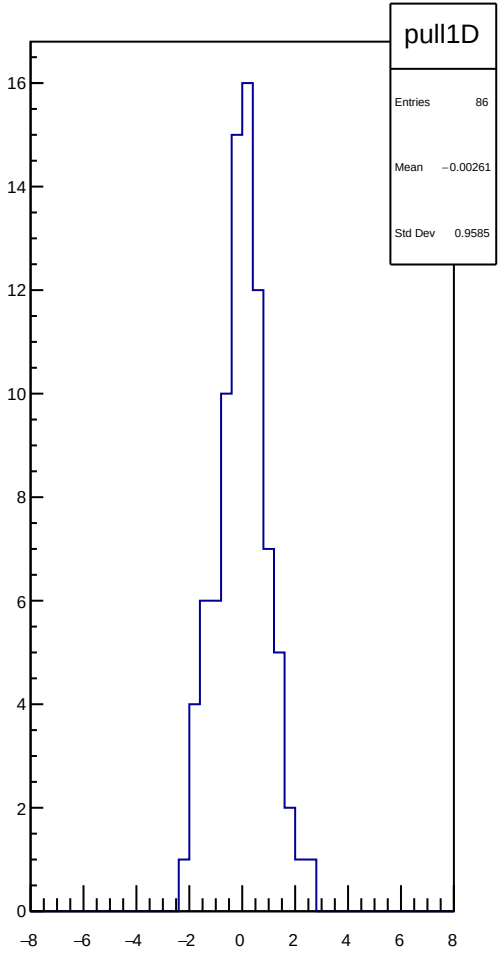

reg_asym_atr_avg_rms vs run
χ² / ndf 144 / 85
p0 1982 ± 1.557
2060
2040
2020
2000
1980
1960
1940
1920

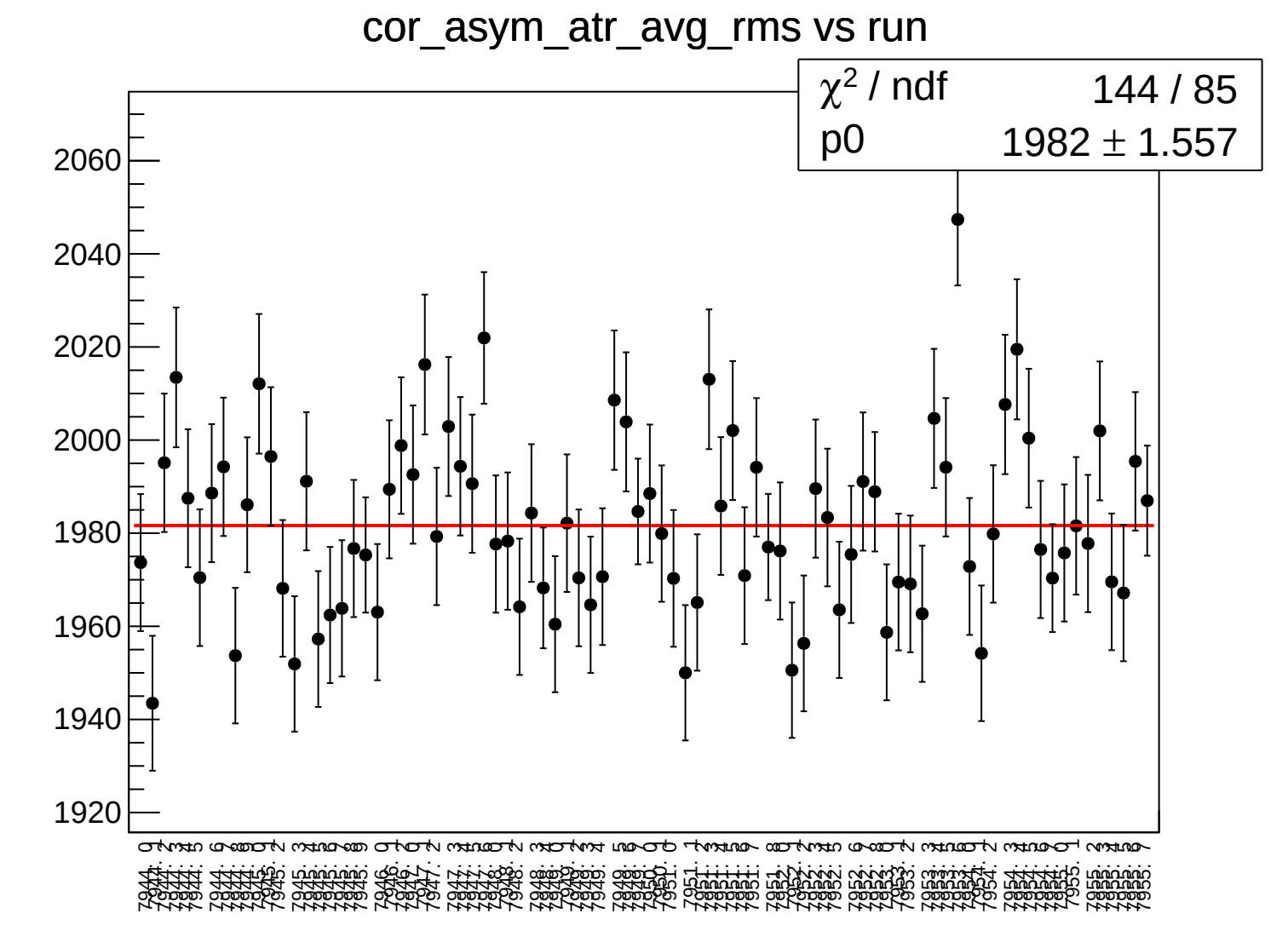

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 91.61 / 85
p0 −3810 ± 8596
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −306.4
Std Dev 0
3
2
1
0
−1
−2

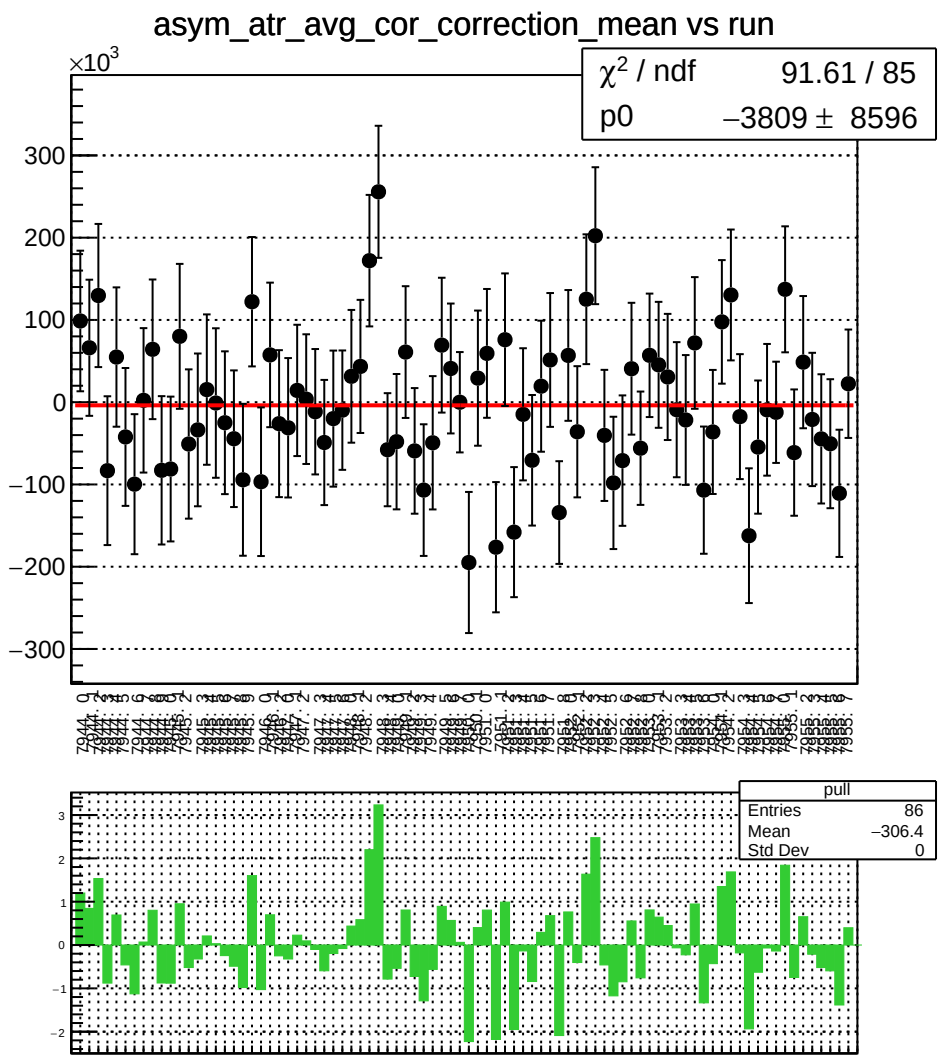

pull1D
Entries 86
Mean 0.004201
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

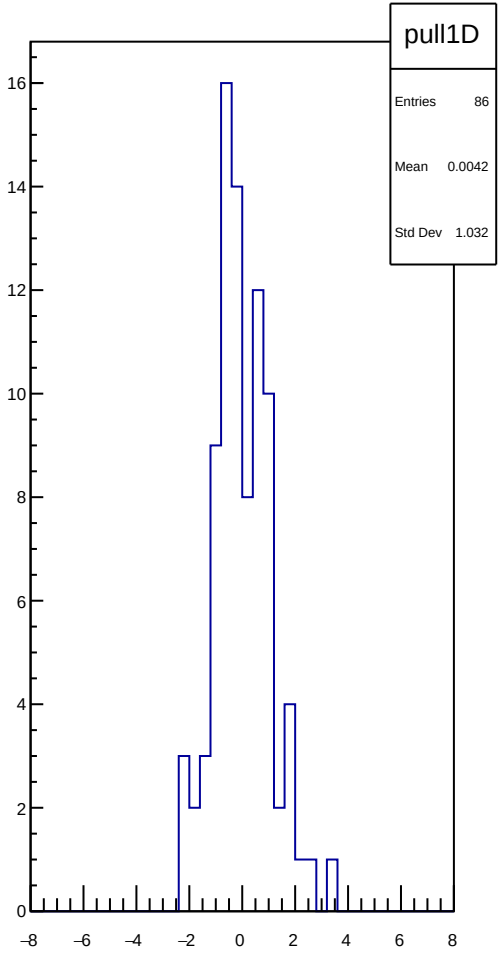

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4718 / 85
p0 7724 ± 6.079
9000
8500
8000
7500
7000

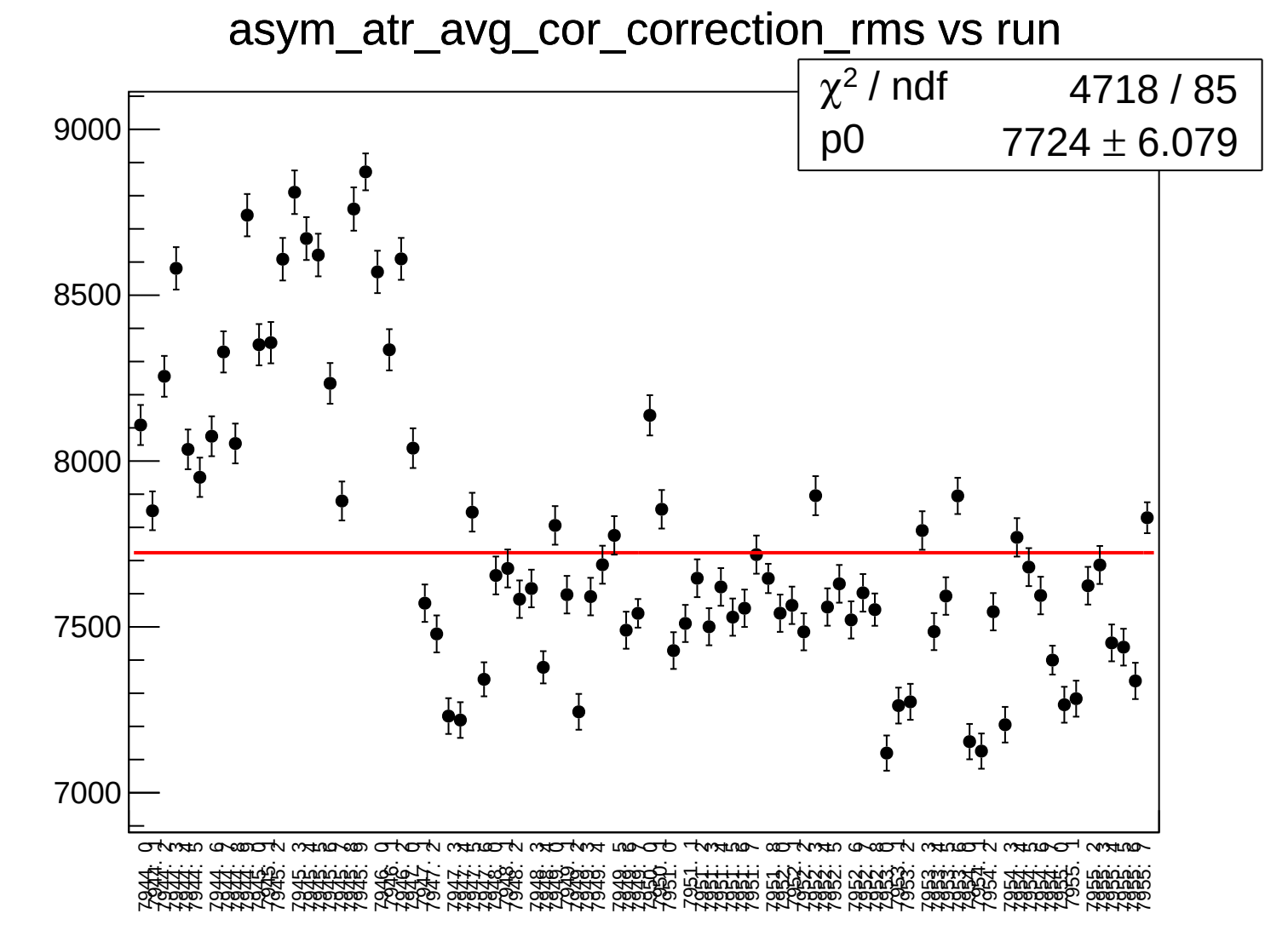

cor_asym_atr_avg_mean vs run
χ² / ndf 79.01 / 85
p0 1687 ± 2202
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −351.1
Std Dev 0
2
1
0
−1
−2

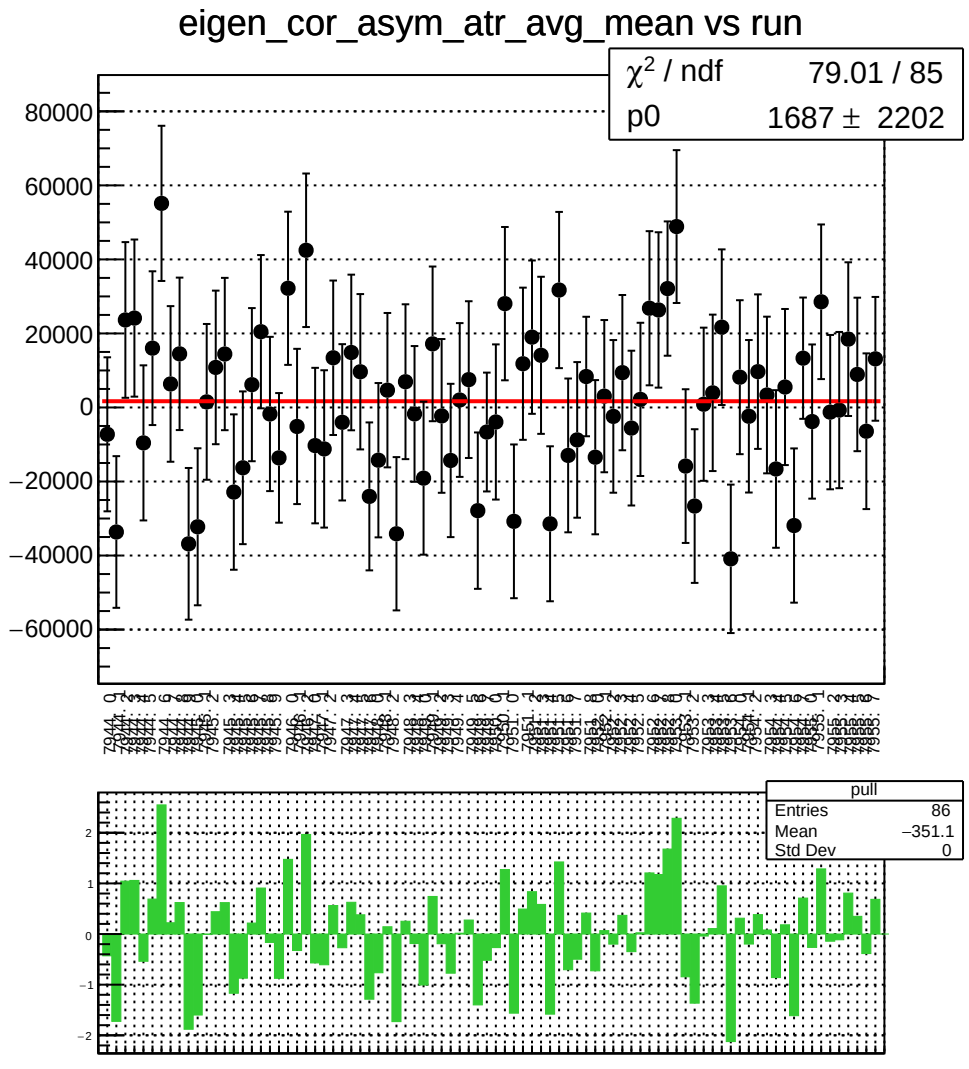

pull1D
Entries 86
Mean −0.00261
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

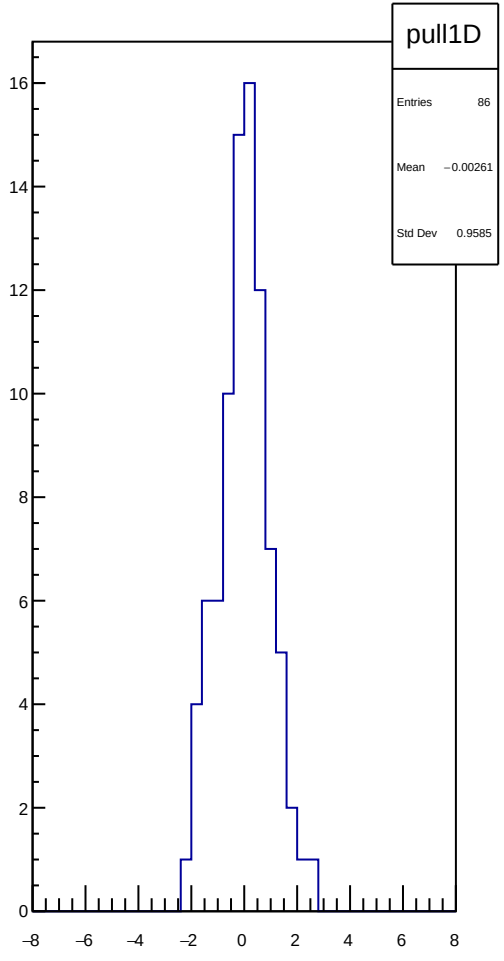

cor_asym_atr_avg_rms vs run
χ² / ndf 144 / 85
p0 1982 ± 1.557
2060
2040
2020
2000
1980
1960
1940
1920

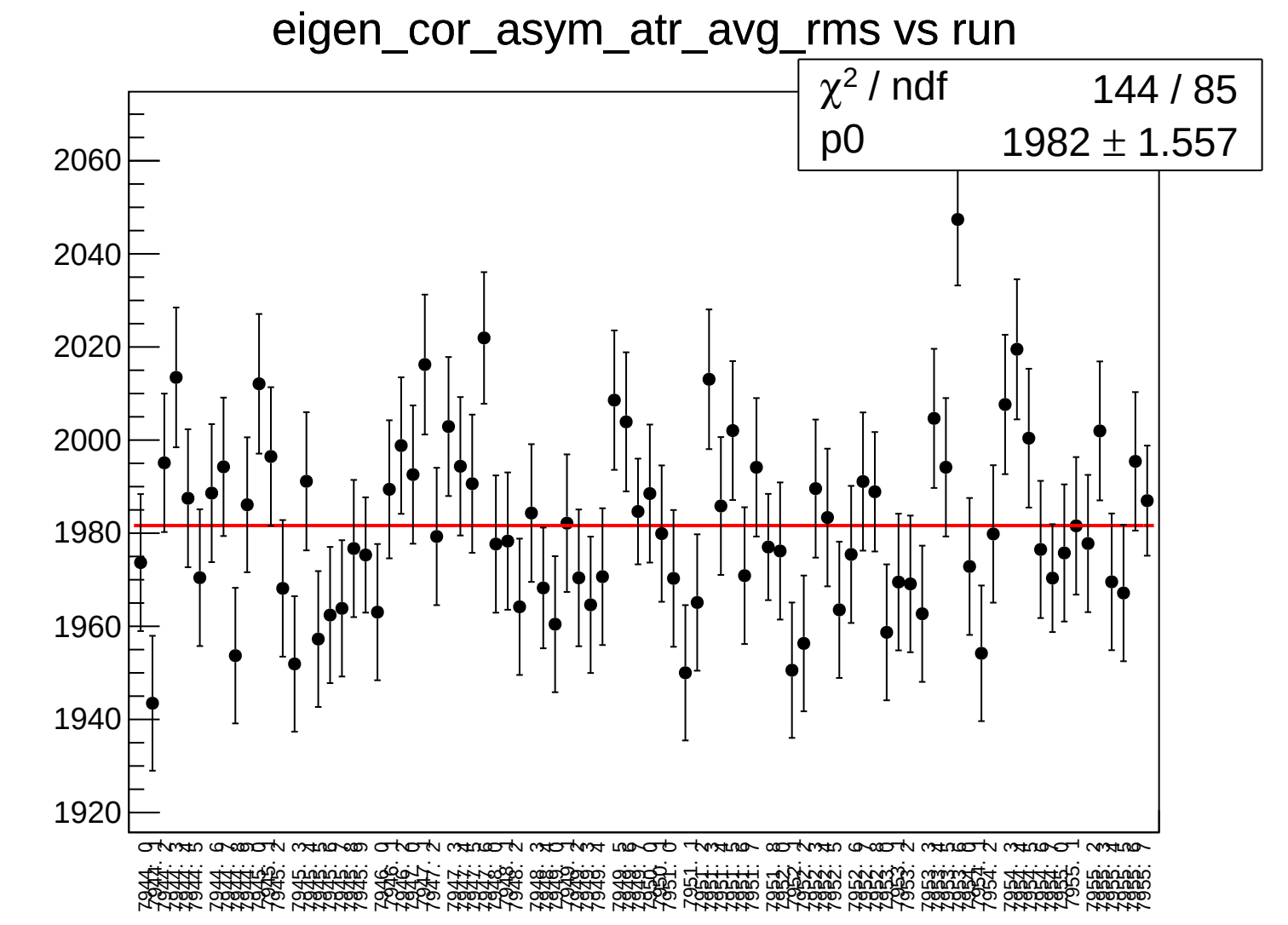

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 91.61 / 85
p0 −3809 ± 8596
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −306.4
Std Dev 0
3
2
1
0
−1
−2

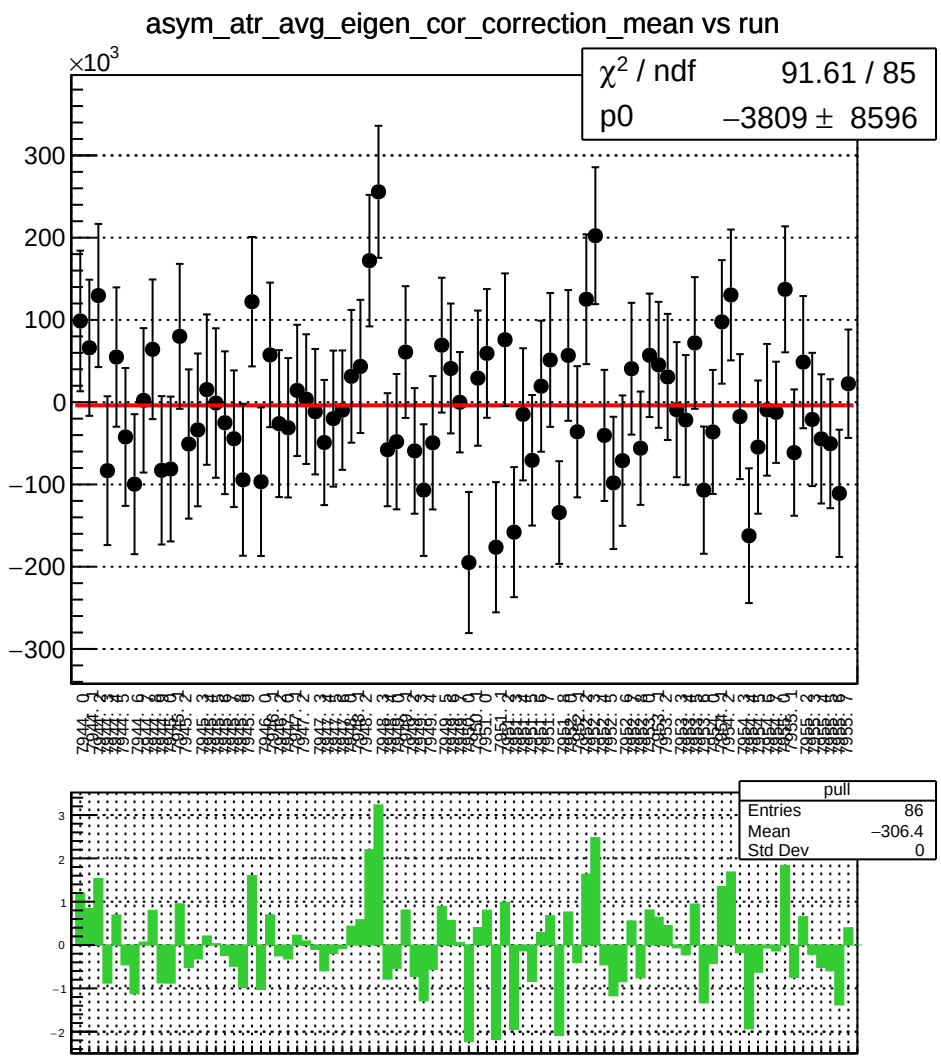

pull1D
Entries 86
Mean 0.0042
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

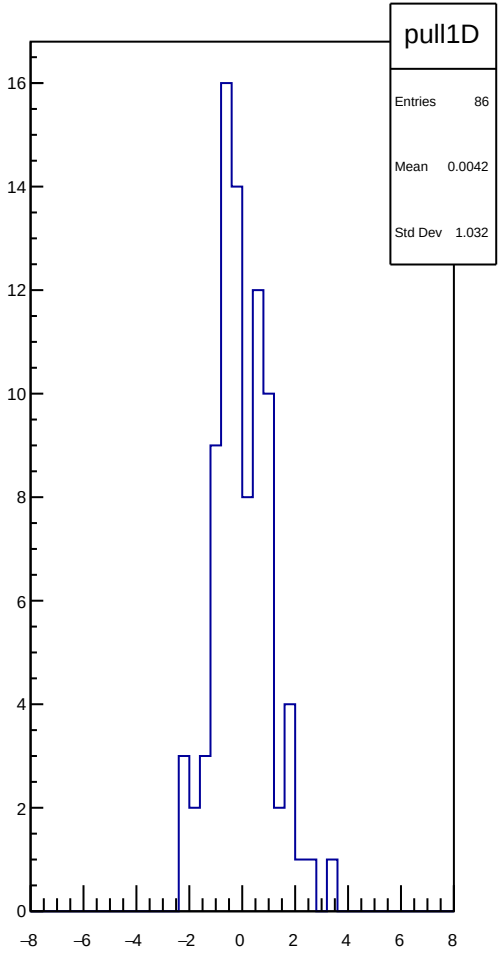

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 4718 / 85
p0 7724 ± 6.079
9000
8500
8000
7500
7000

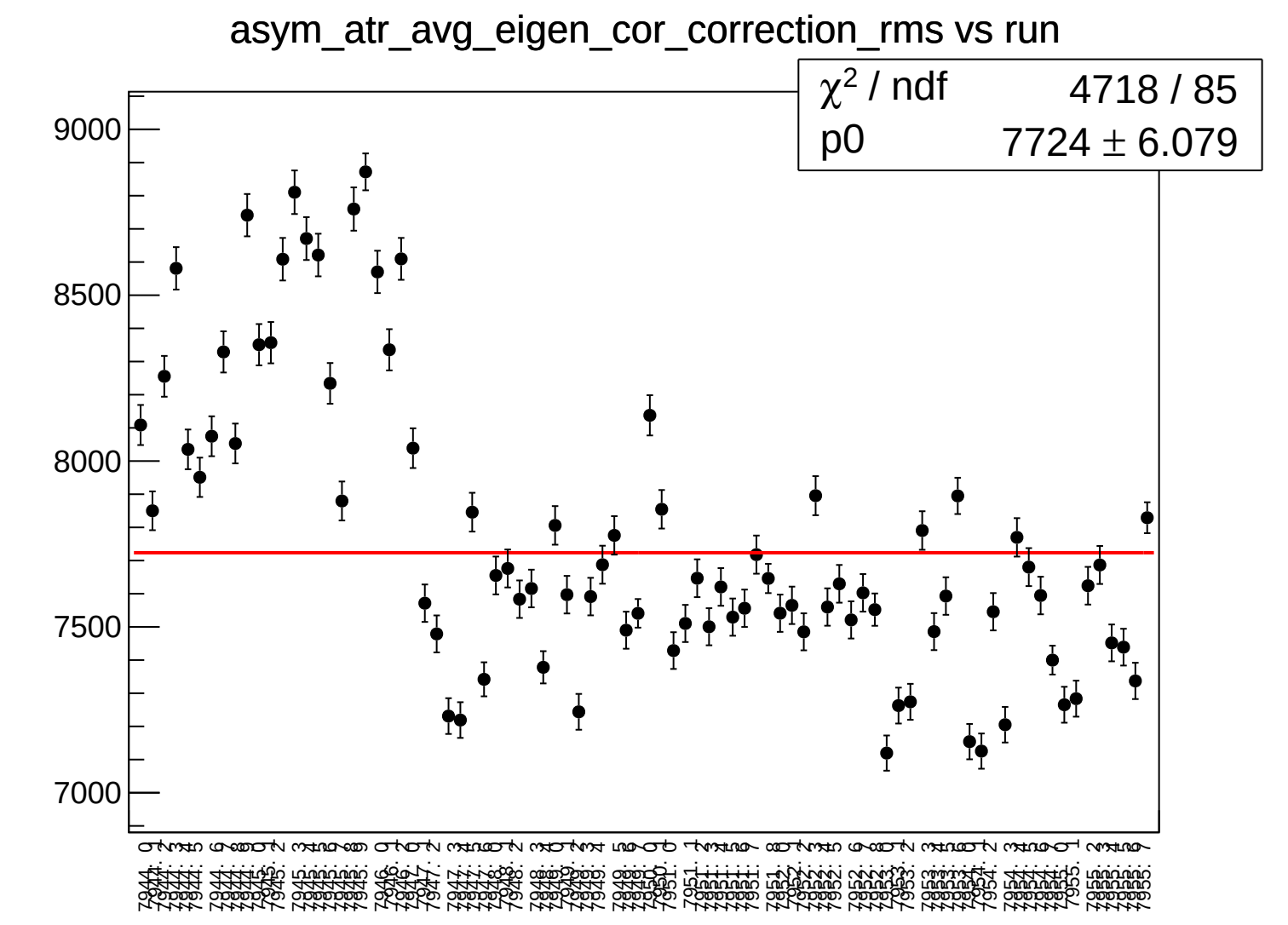

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 79.01 / 85
p0 1687 ± 2202
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −351.1
Std Dev 0
2
1
0
−1
−2

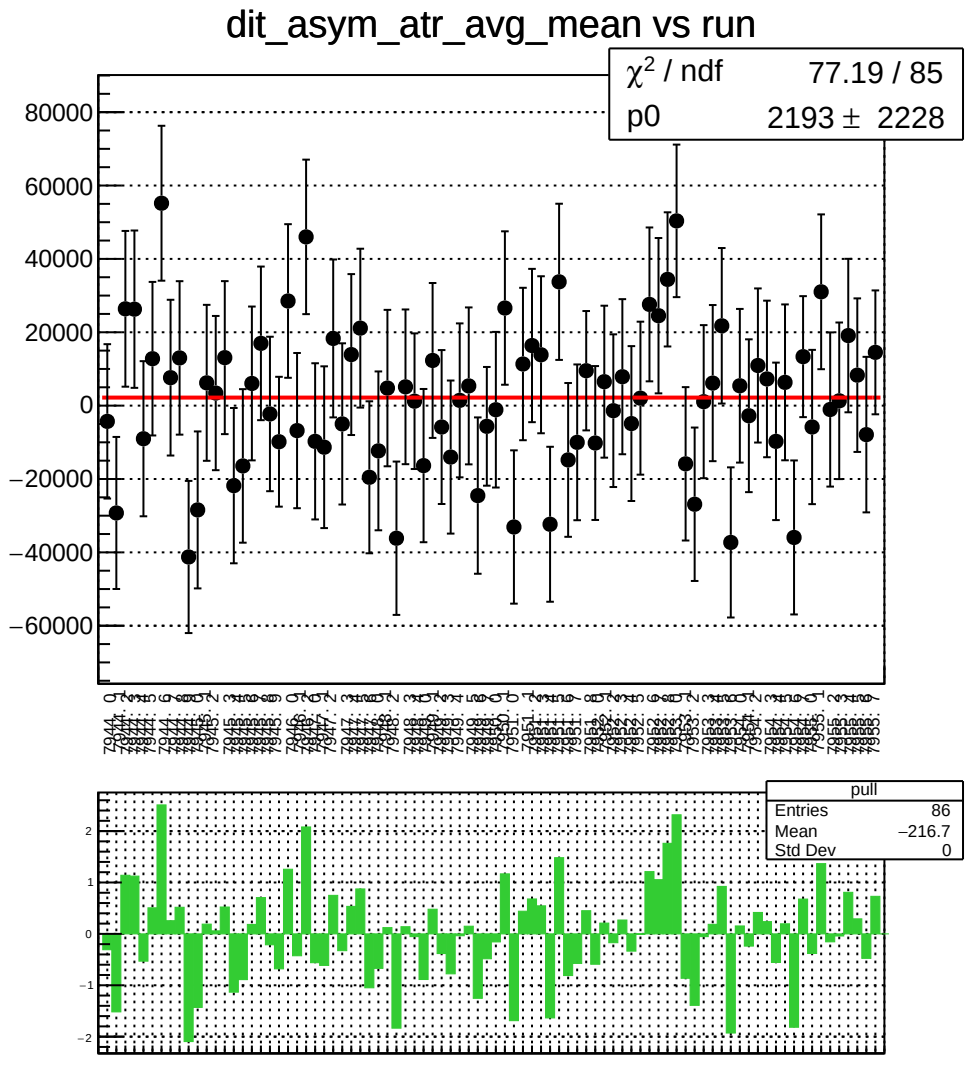

pull1D
Entries 86
Mean −0.00261
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

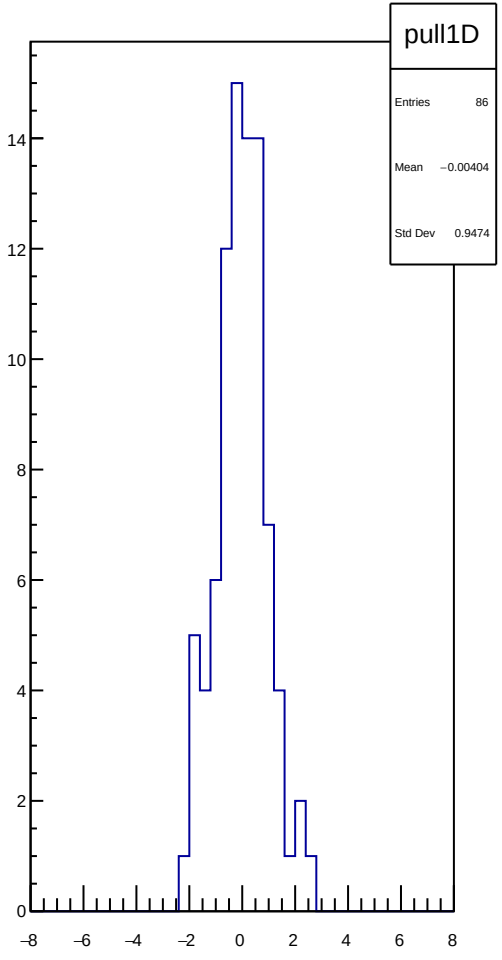

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 144 / 85
p0 1982 ± 1.557
2060
2040
2020
2000
1980
1960
1940
1920

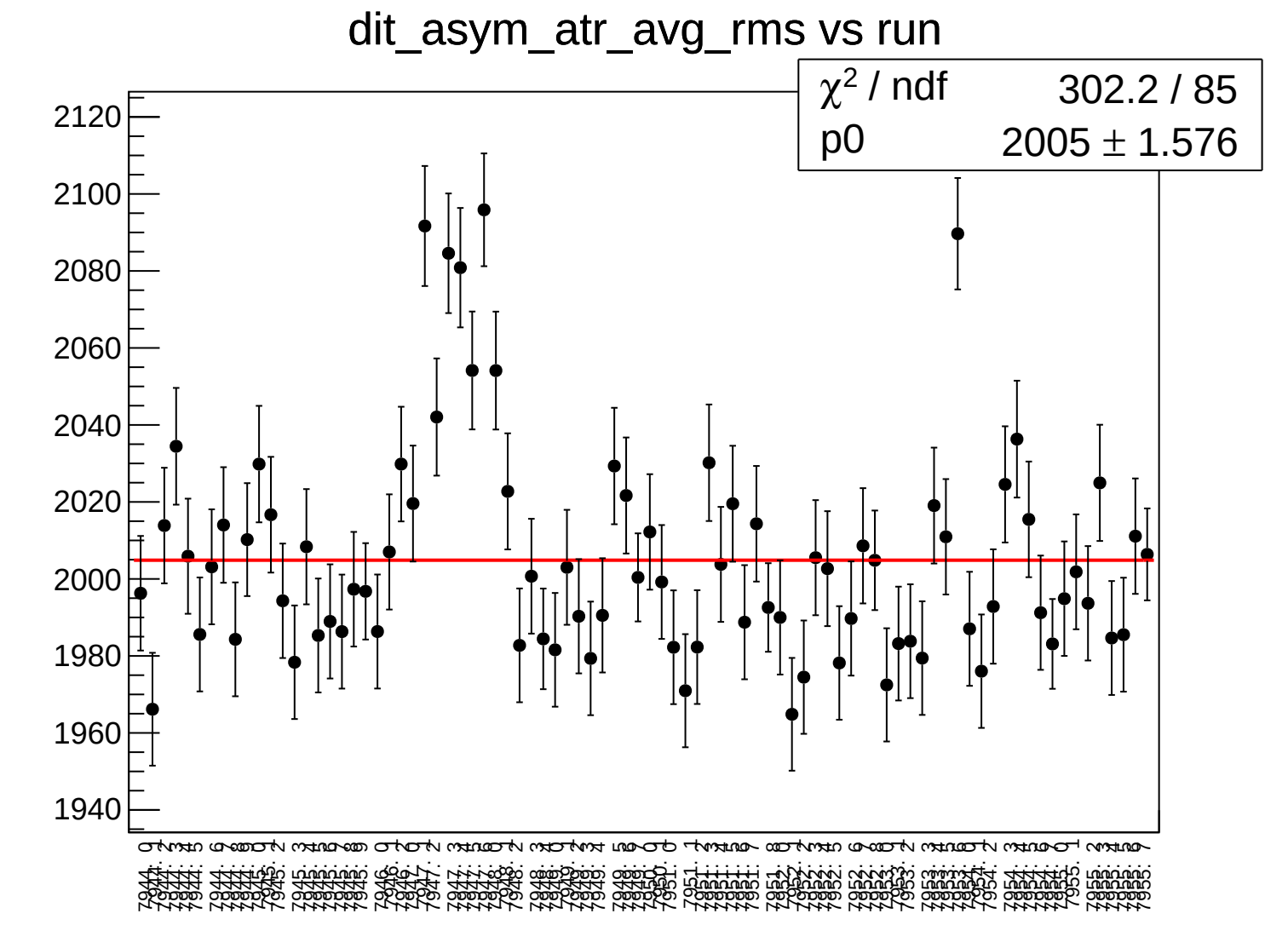

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.61 / 85
p0 −3809 ± 8596
pull
Entries 86
Mean −306.4
Std Dev 0

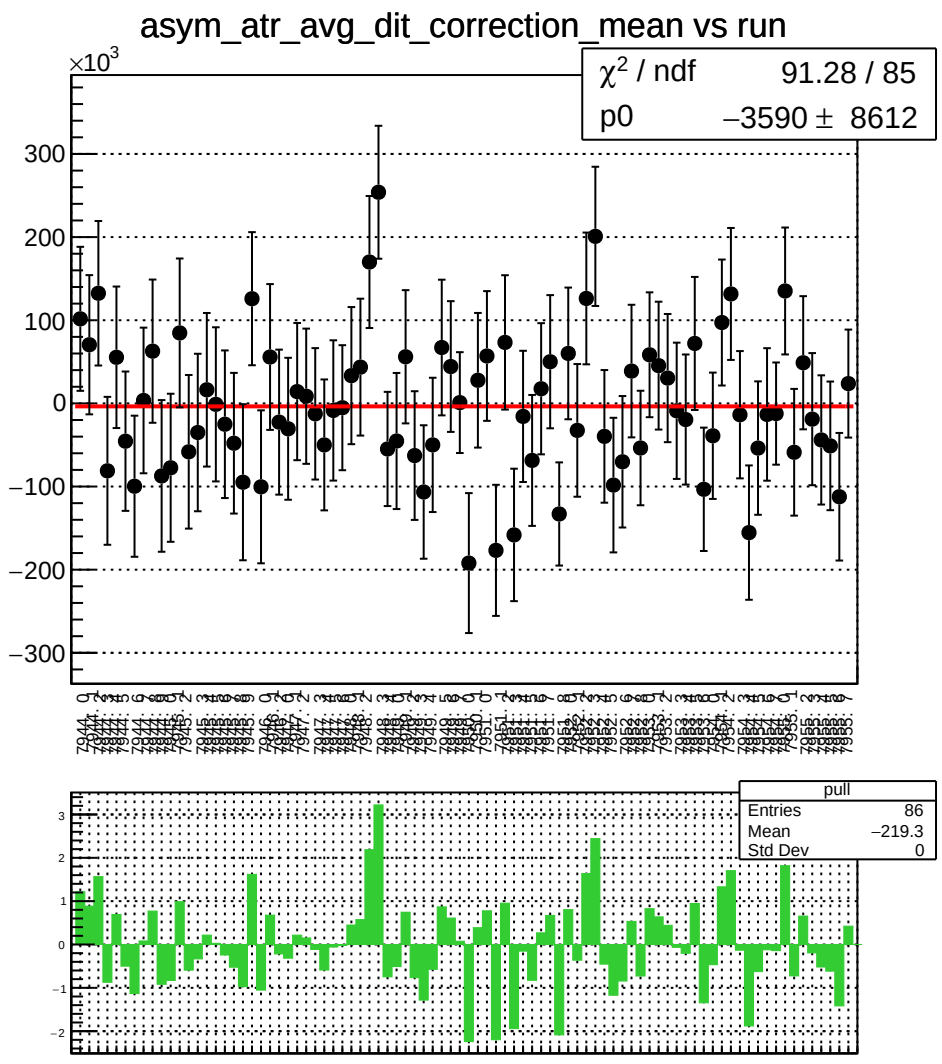

pull1D
Entries 86
Mean 0.0042
Std Dev 1.032

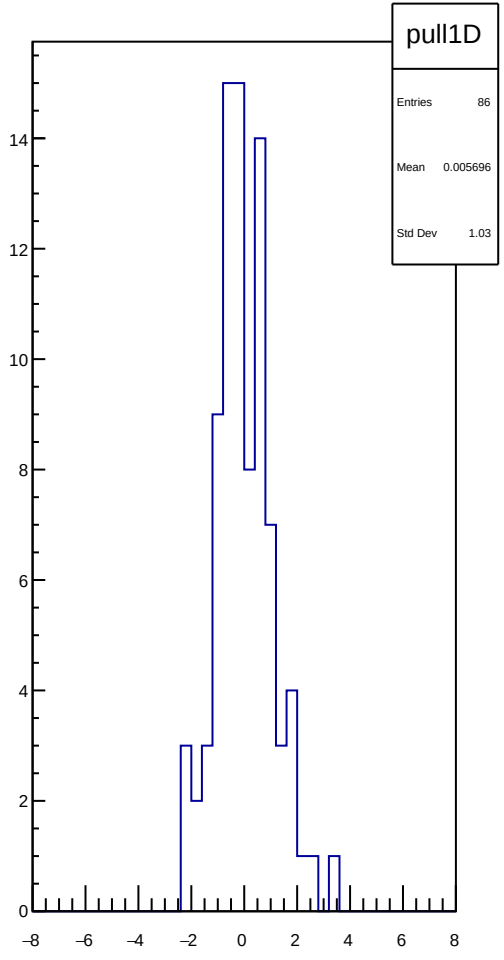

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 4718 / 85
p0 7724 ± 6.079
9000
8500
8000
7500
7000

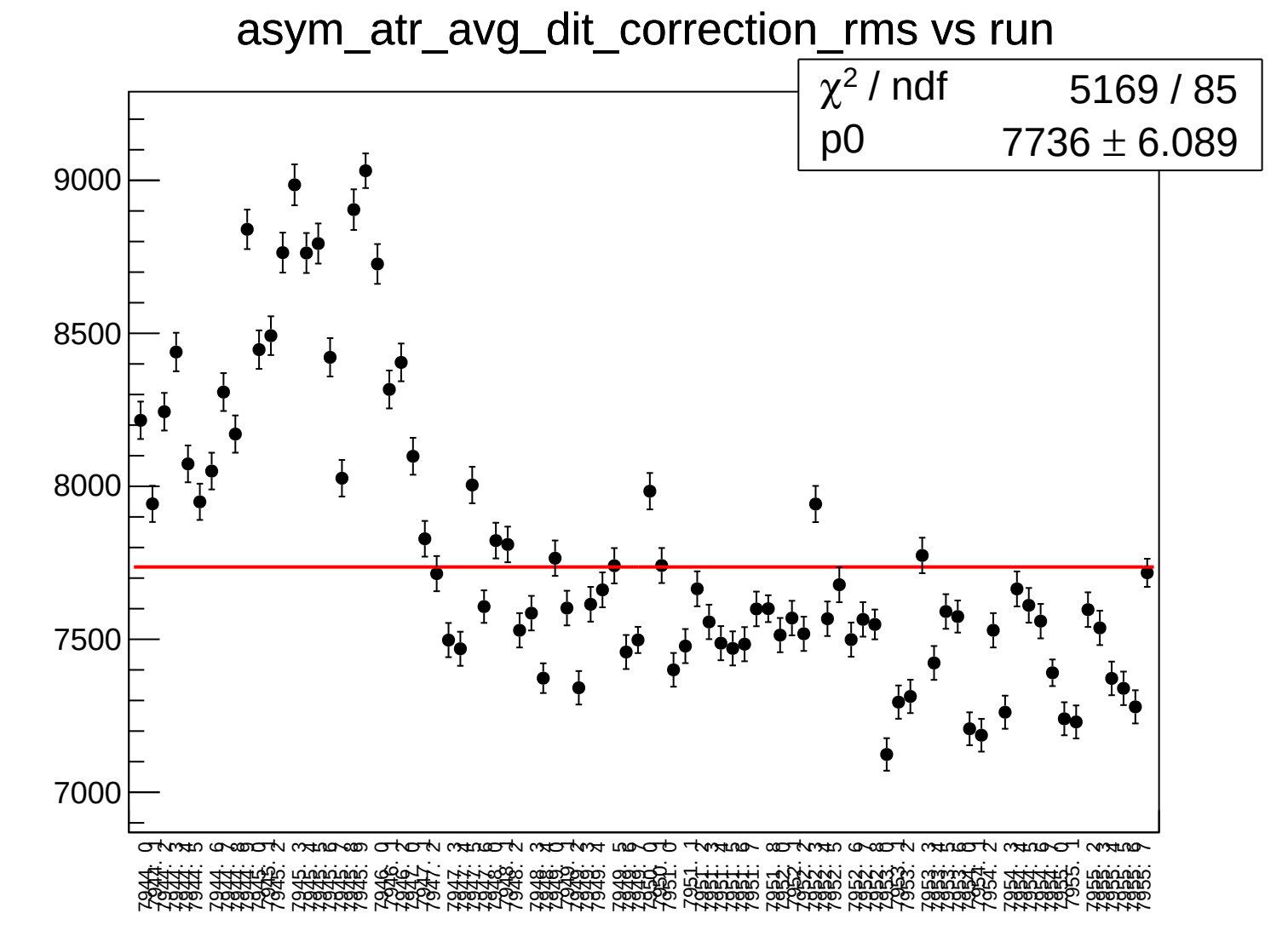

dit_asym_atr_avg_mean vs run
χ² / ndf 77.19 / 85
p0 2193 ± 2228
pull
Entries 86
Mean −216.7
Std Dev 0

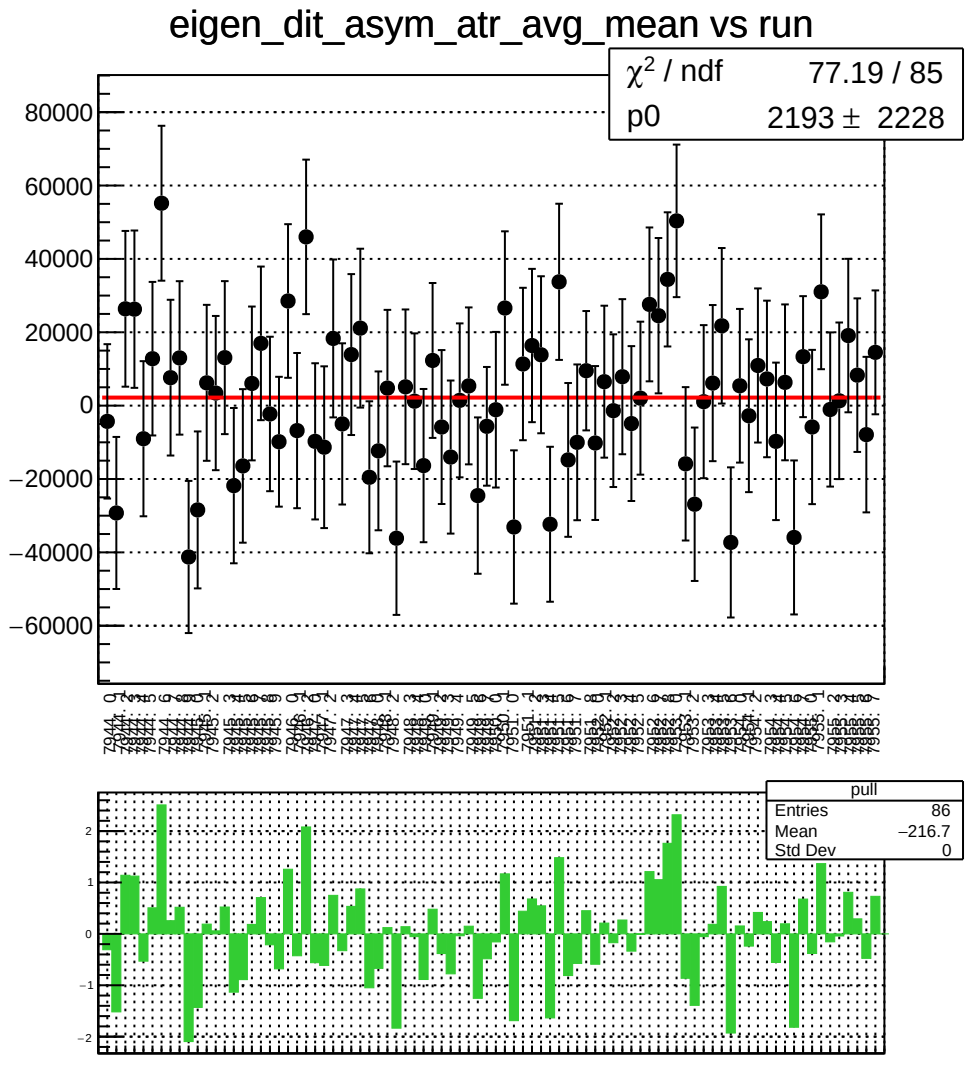

pull1D
Entries 86
Mean −0.00404
Std Dev 0.9474

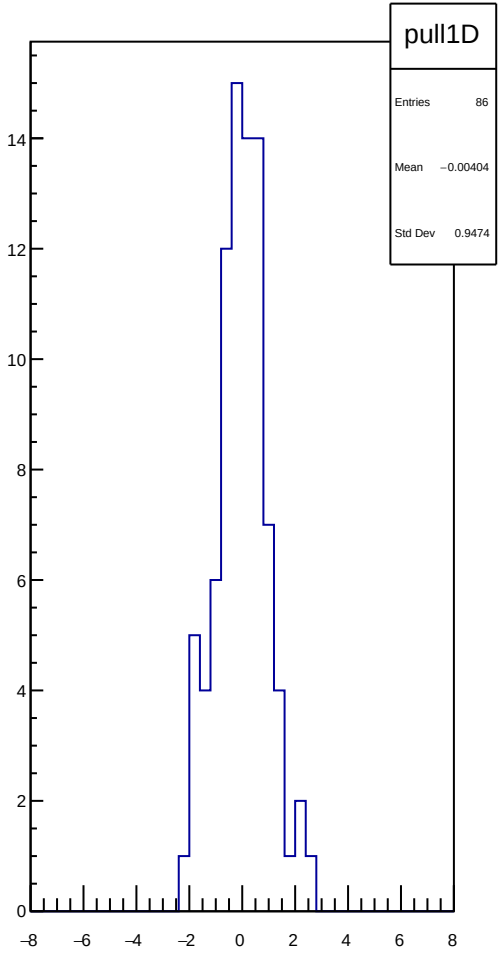

dit_asym_atr_avg_rms vs run
χ² / ndf 302.2 / 85
p0 2005 ± 1.576
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

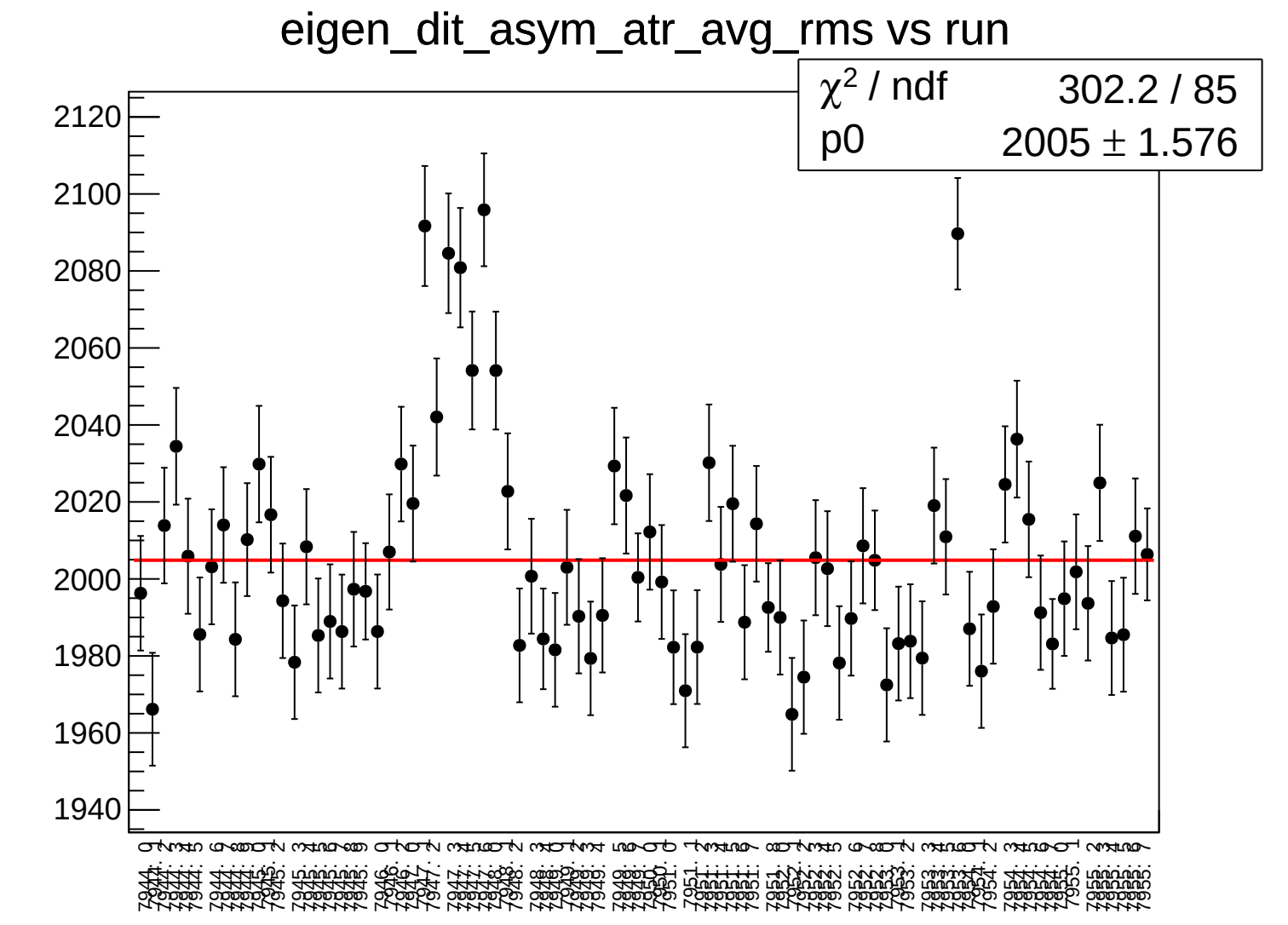

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.28 / 85
p0 −3590 ± 8612
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −219.3
Std Dev 0
3
2
1
0
−1
−2

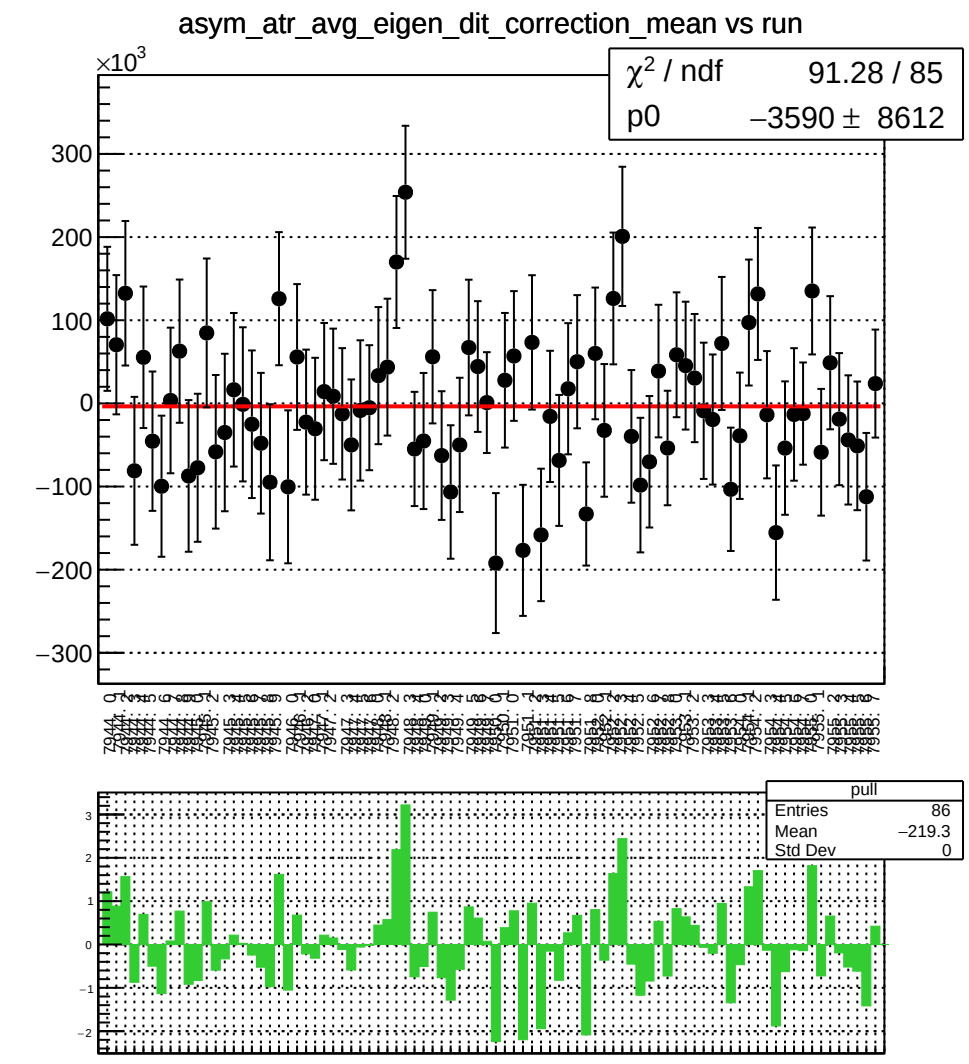

pull1D
Entries 86
Mean 0.005696
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

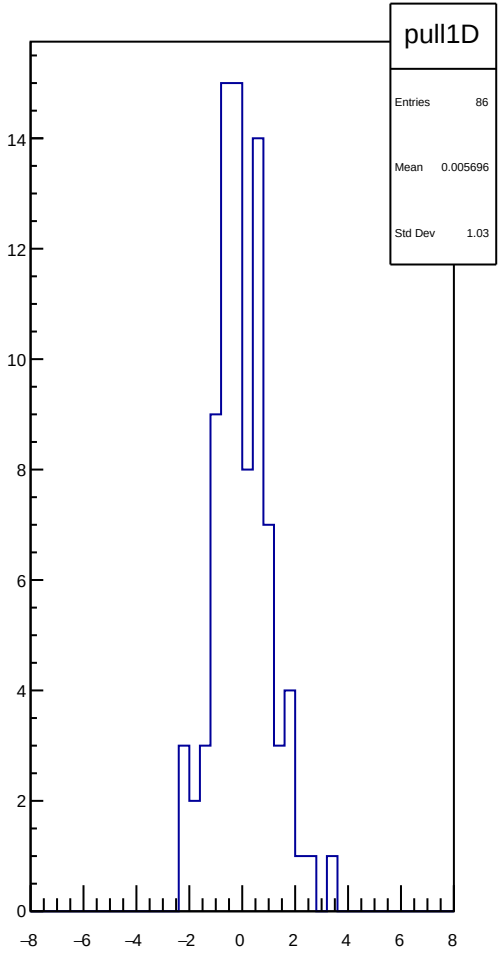

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 5169 / 85
p0 7736 ± 6.089
9000
8500
8000
7500
7000

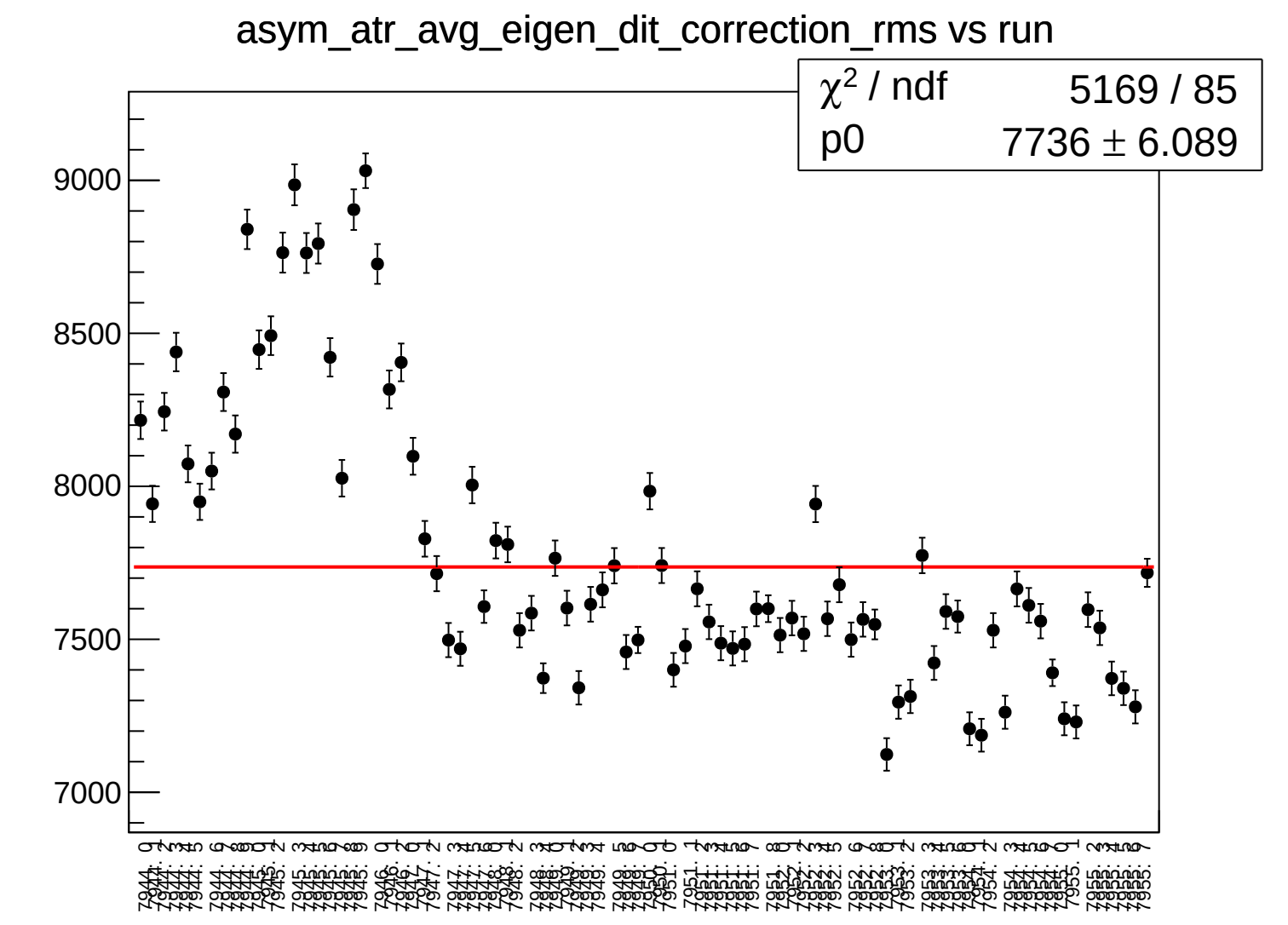

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 77.19 / 85
p0 2193 ± 2228
pull
Entries 86
Mean −216.7
Std Dev 0

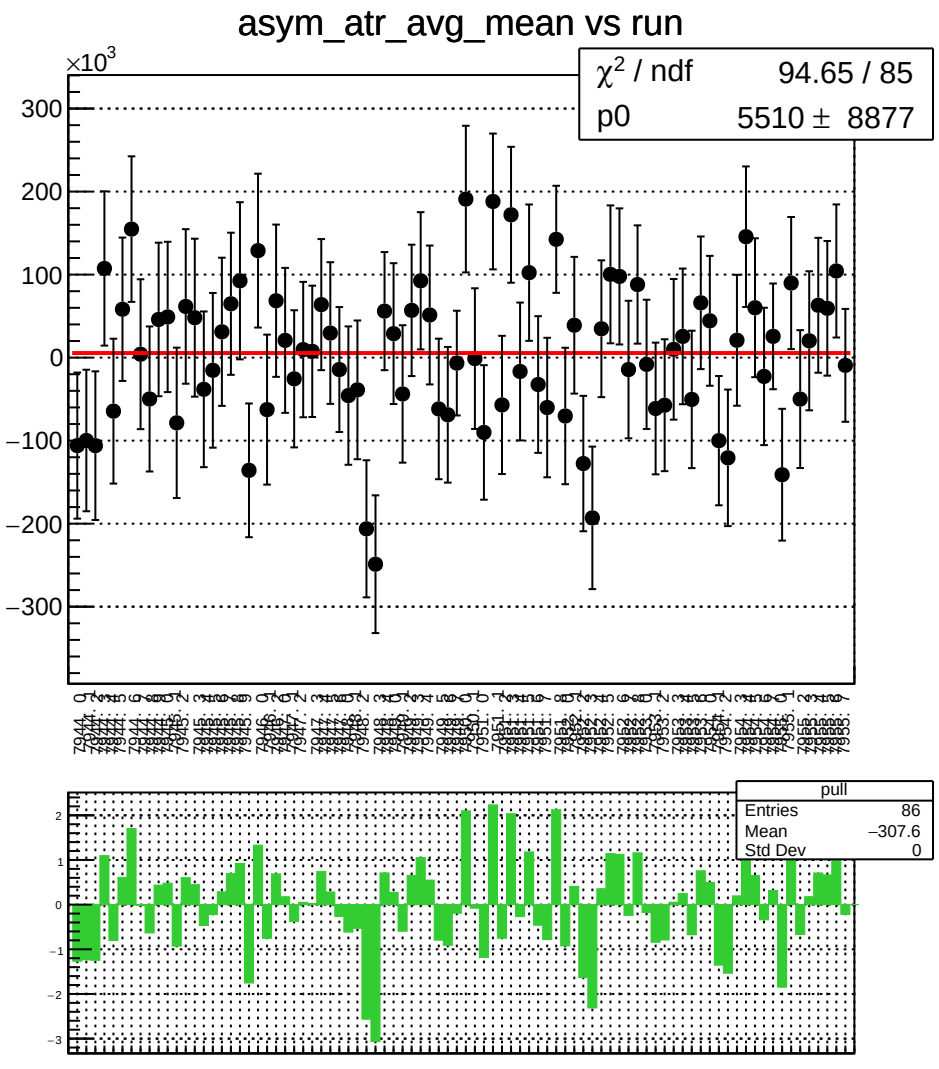

pull1D
Entries 86
Mean −0.00404
Std Dev 0.9474

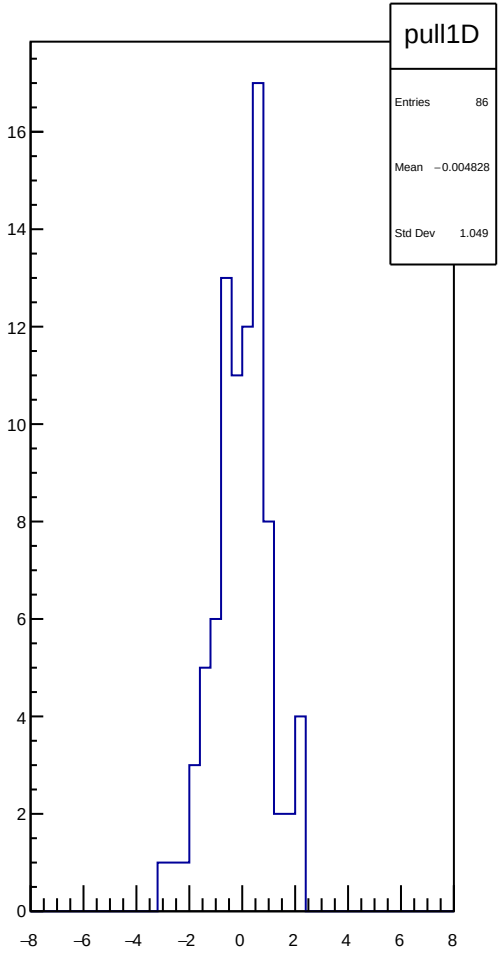

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 302.2 / 85
p0 2005 ± 1.576
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

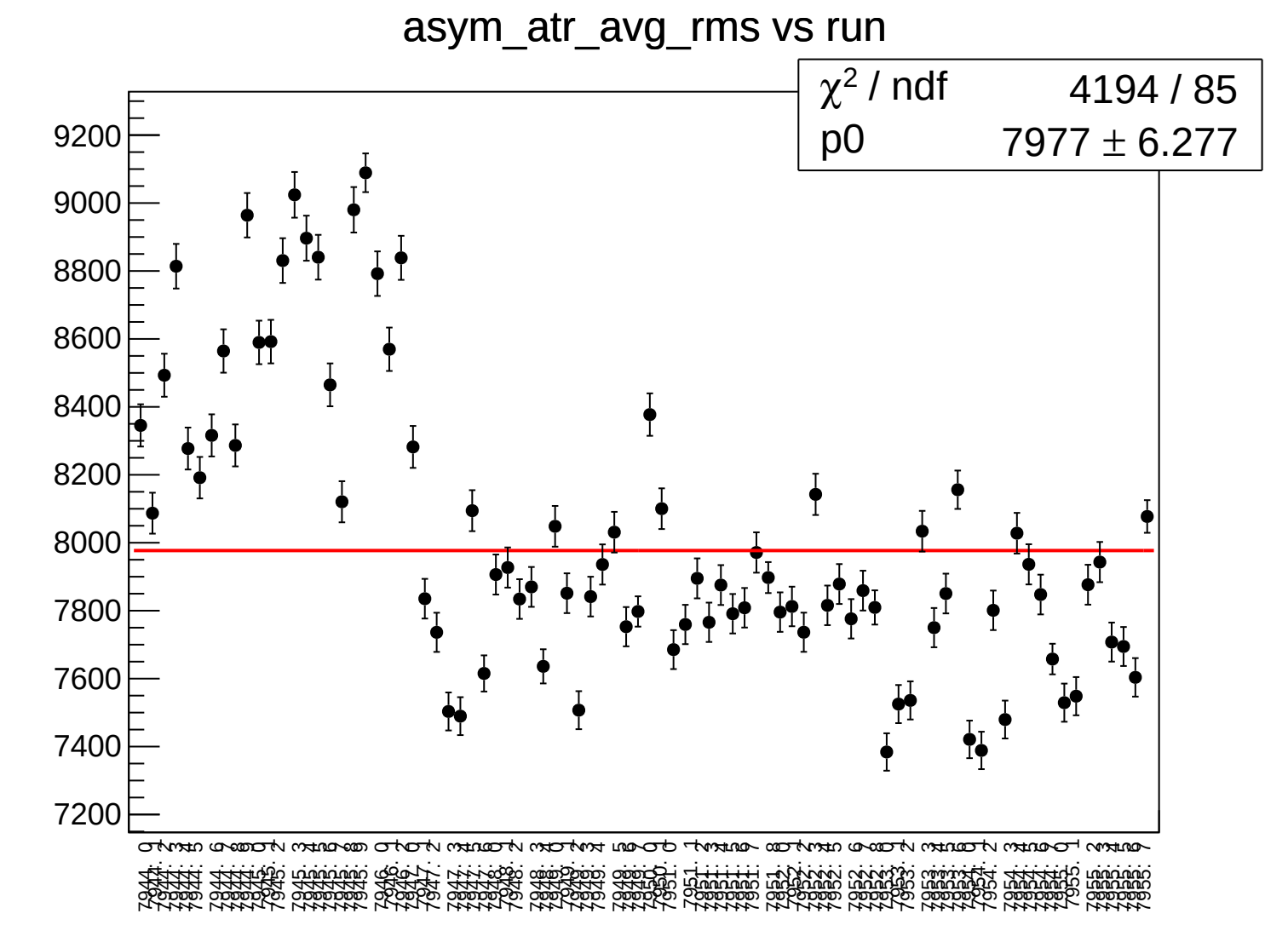

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.28 / 85
p0 −3590 ± 8612
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −219.3
Std Dev 0
3
2
1
0
−1
−2

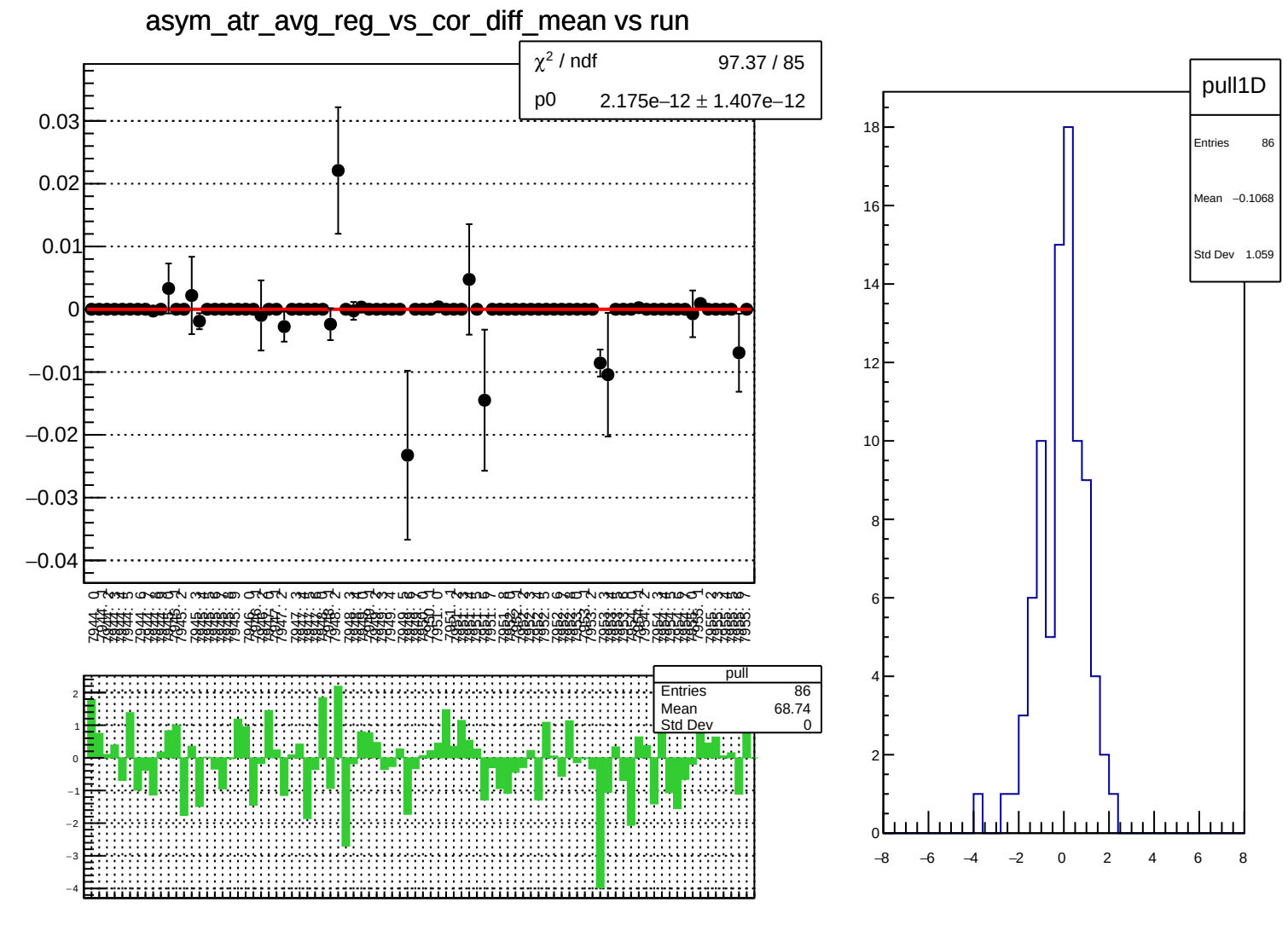

pull1D
Entries 86
Mean 0.005696
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

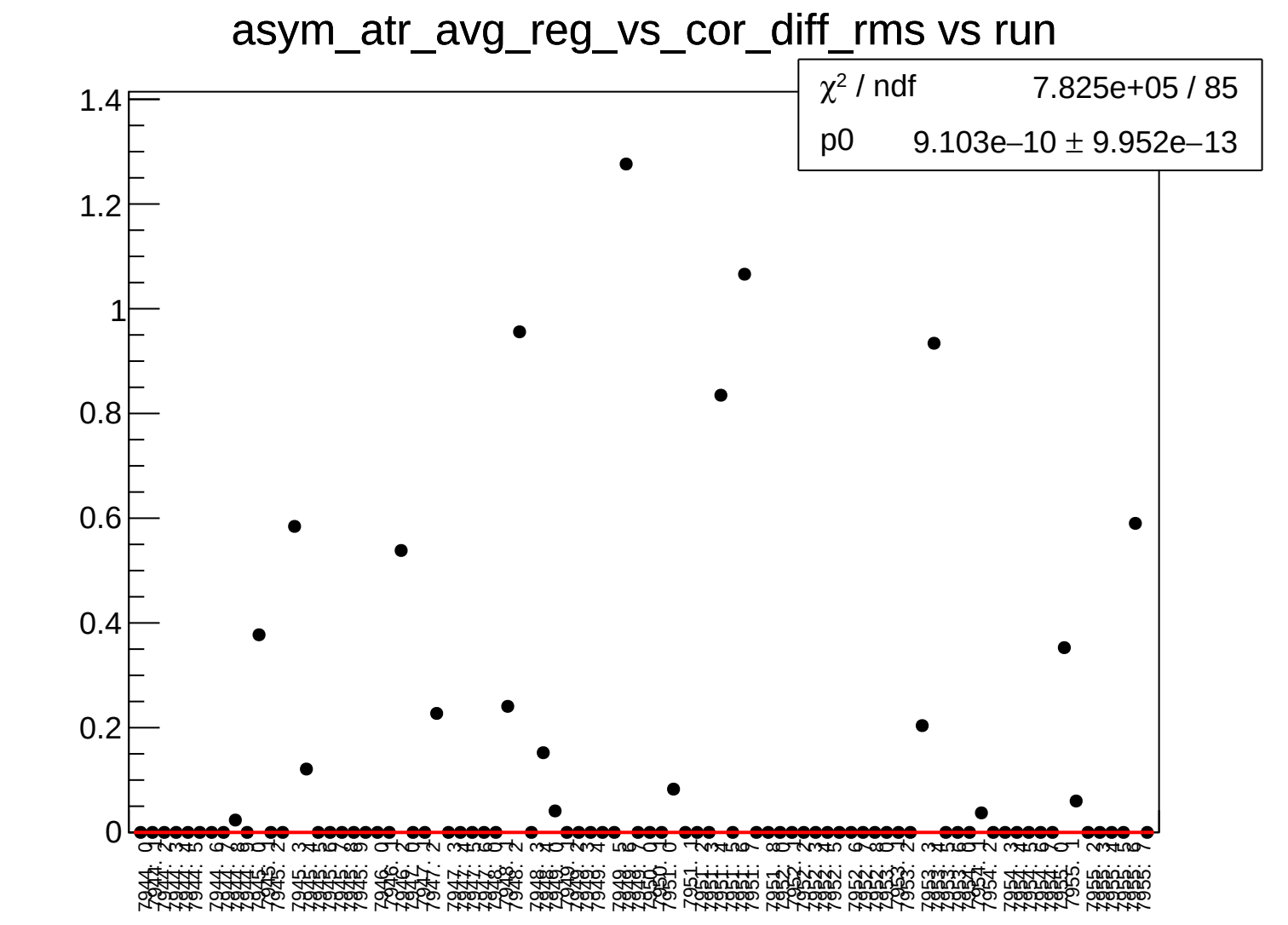

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 5169 / 85
p0 7736 ± 6.089
9000
8500
8000
7500
7000

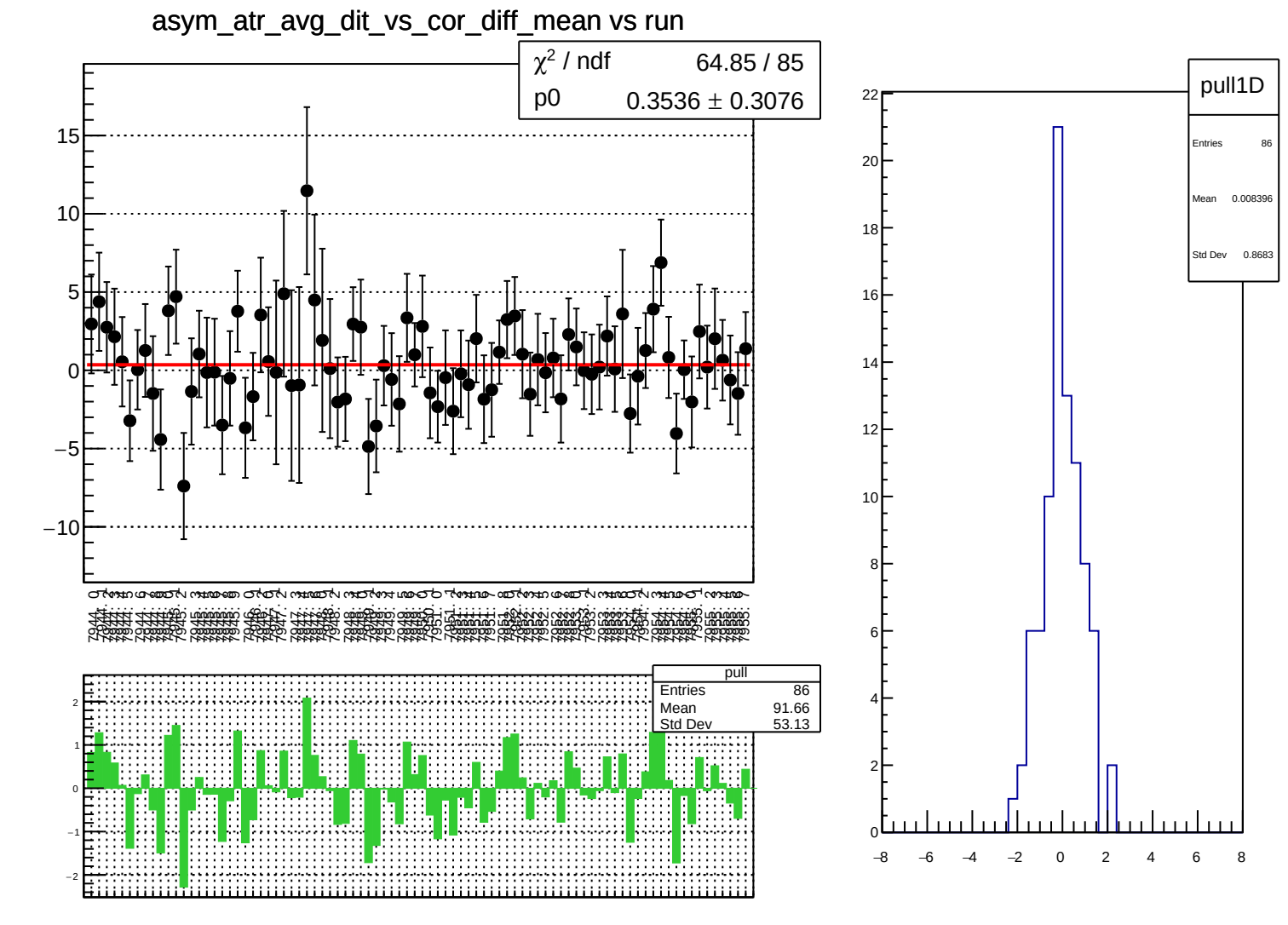

asym_atr_avg_mean vs run
×10^3
χ² / ndf 94.65 / 85
p0 5510 ± 8877
pull
Entries 86
Mean −307.6
Std Dev 0

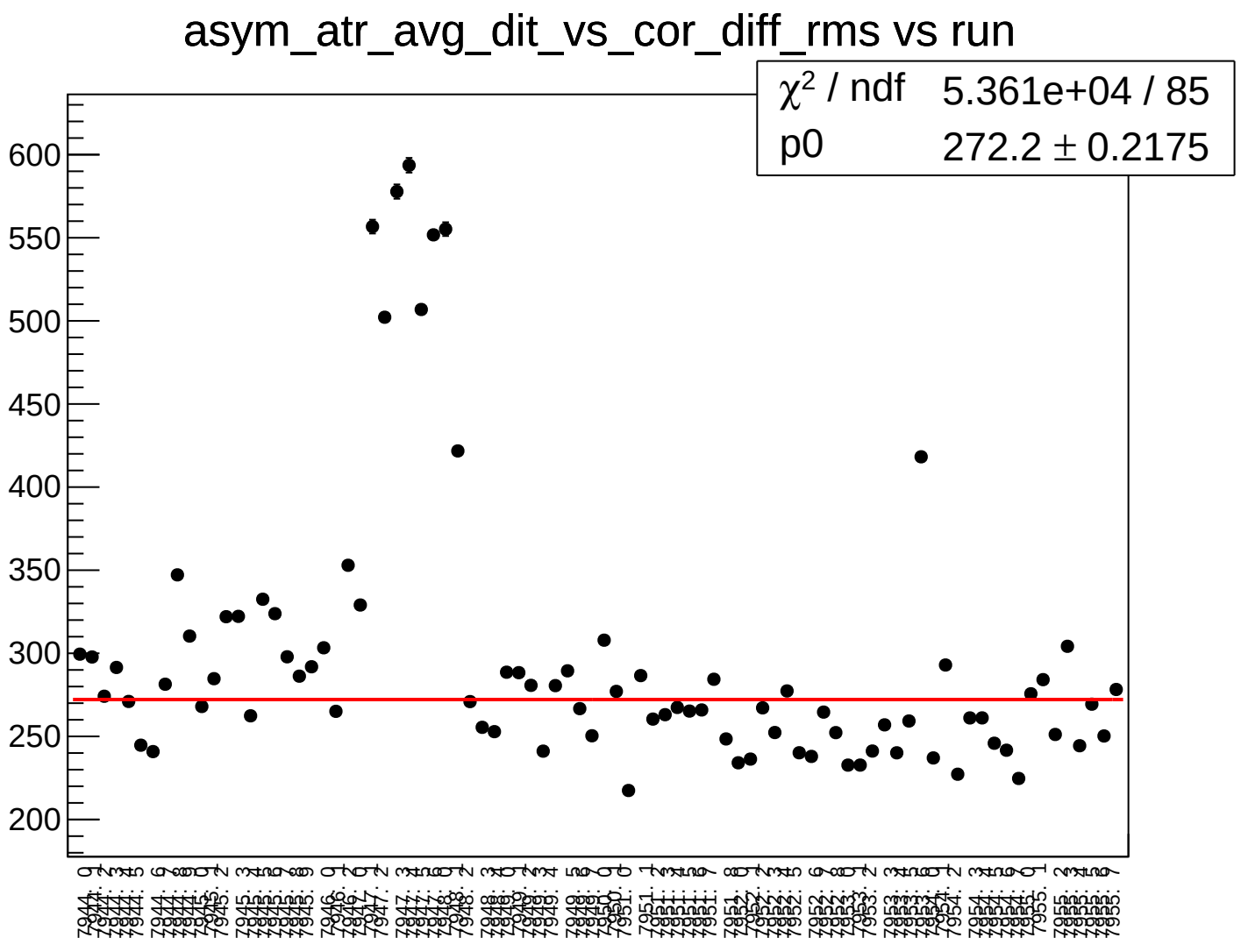

pull1D
Entries 86
Mean −0.004828
Std Dev 1.049

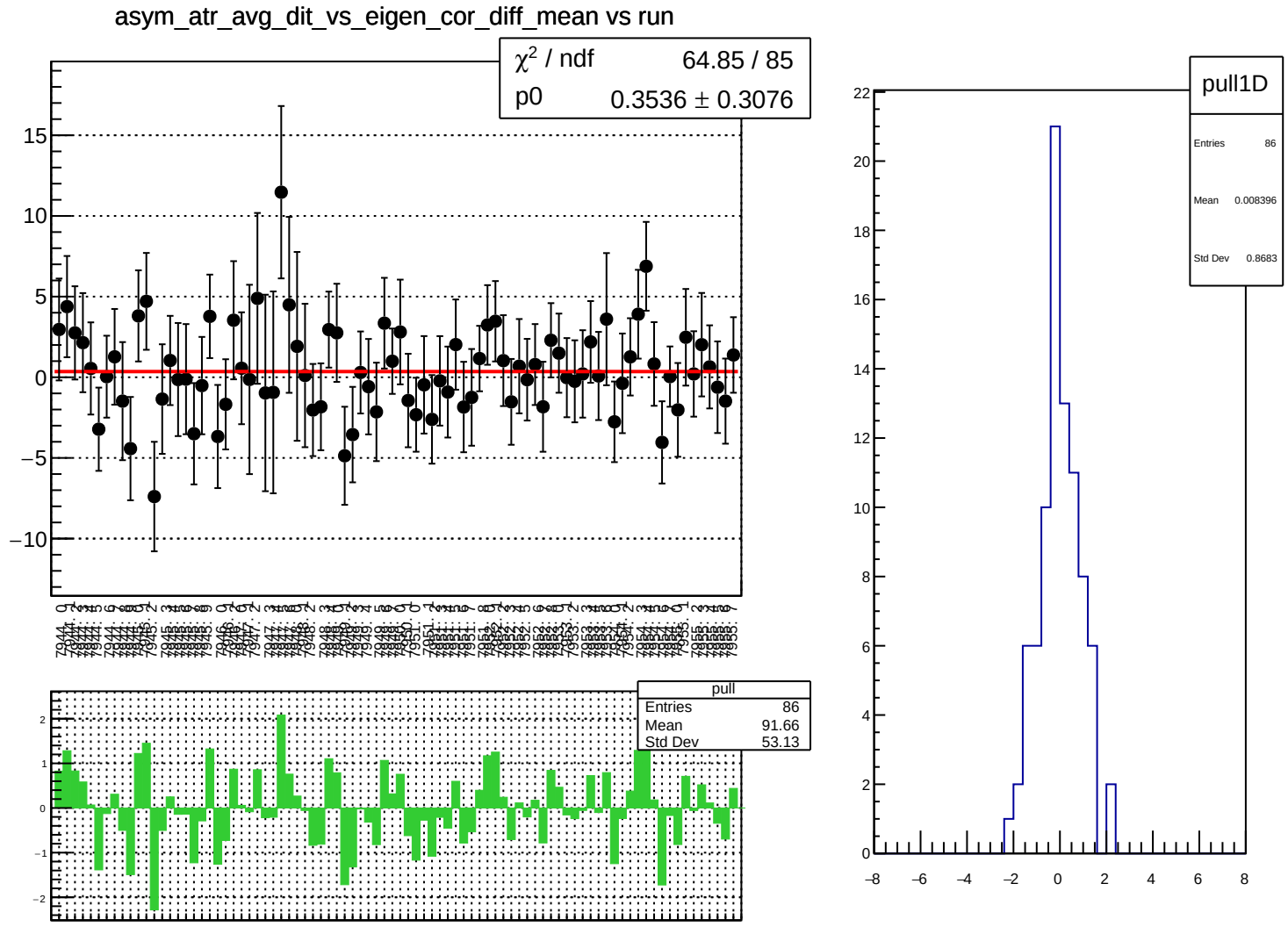

asym_atr_avg_rms vs run
χ^2 / ndf 4194 / 85
p0 7977 ± 6.277
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

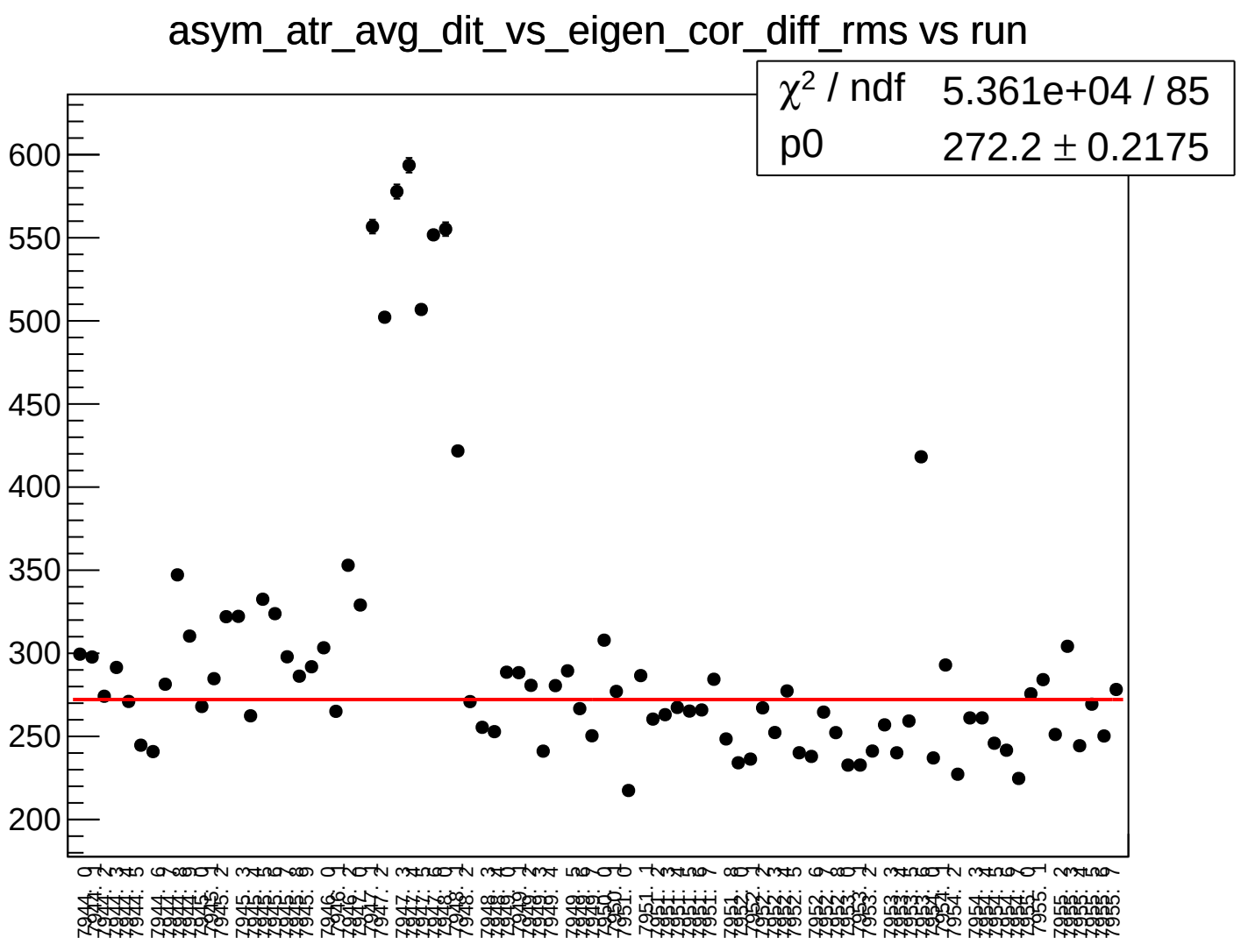

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.37 / 85
p0 2.175e−12 ± 1.407e−12
pull
Entries 86
Mean 68.74
Std Dev 0
pull1D
Entries 86
Mean −0.1068
Std Dev 1.059

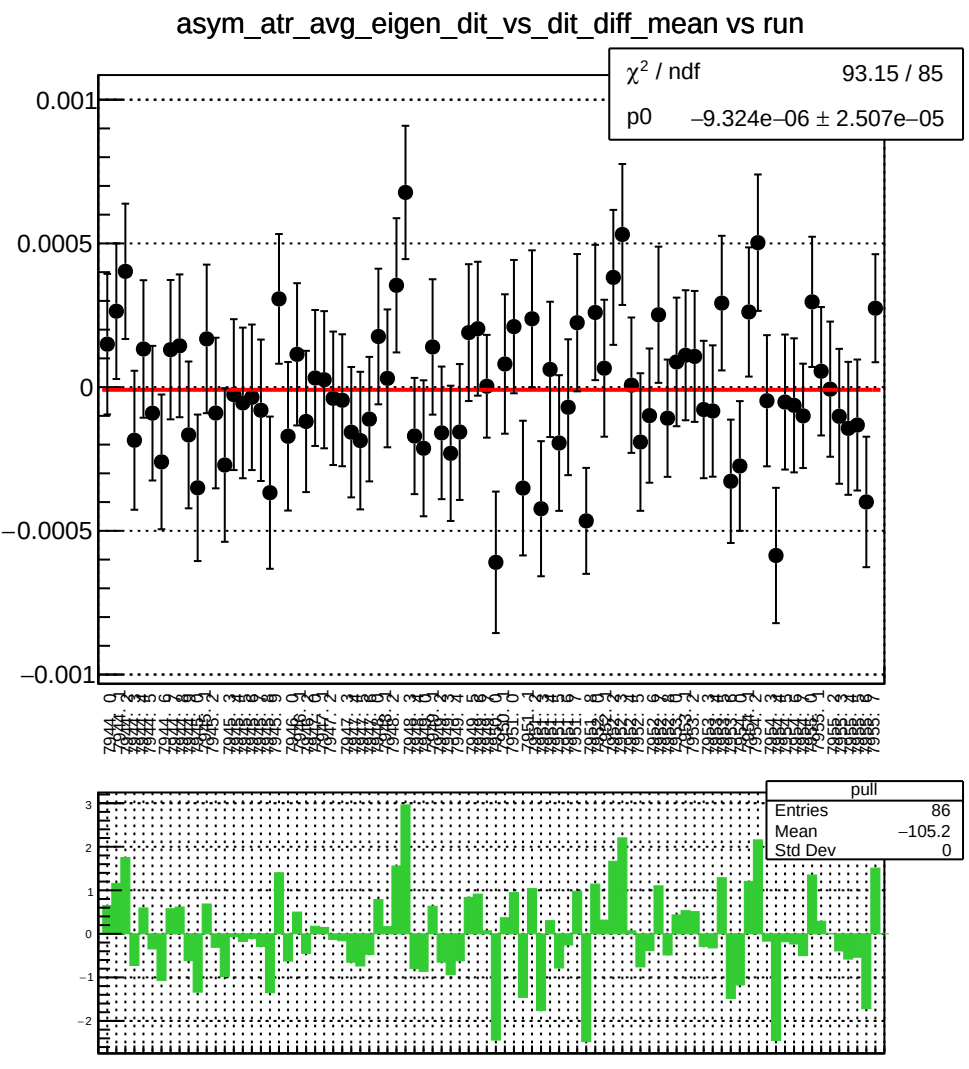

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.825e+05 / 85
p0 9.103e−10 ± 9.952e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

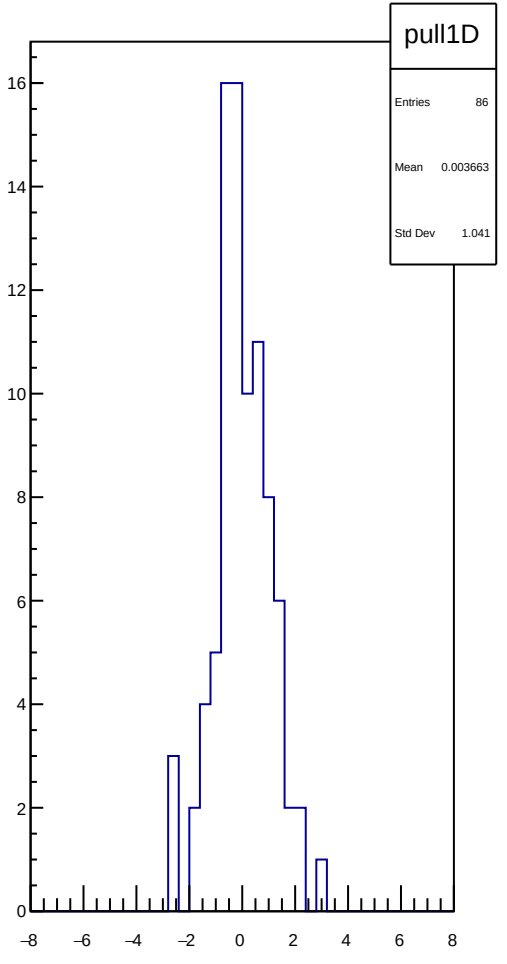

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 64.85 / 85
p0 0.3536 ± 0.3076
pull
Entries 86
Mean 91.66
Std Dev 53.13
pull1D
Entries 86
Mean 0.008396
Std Dev 0.8683

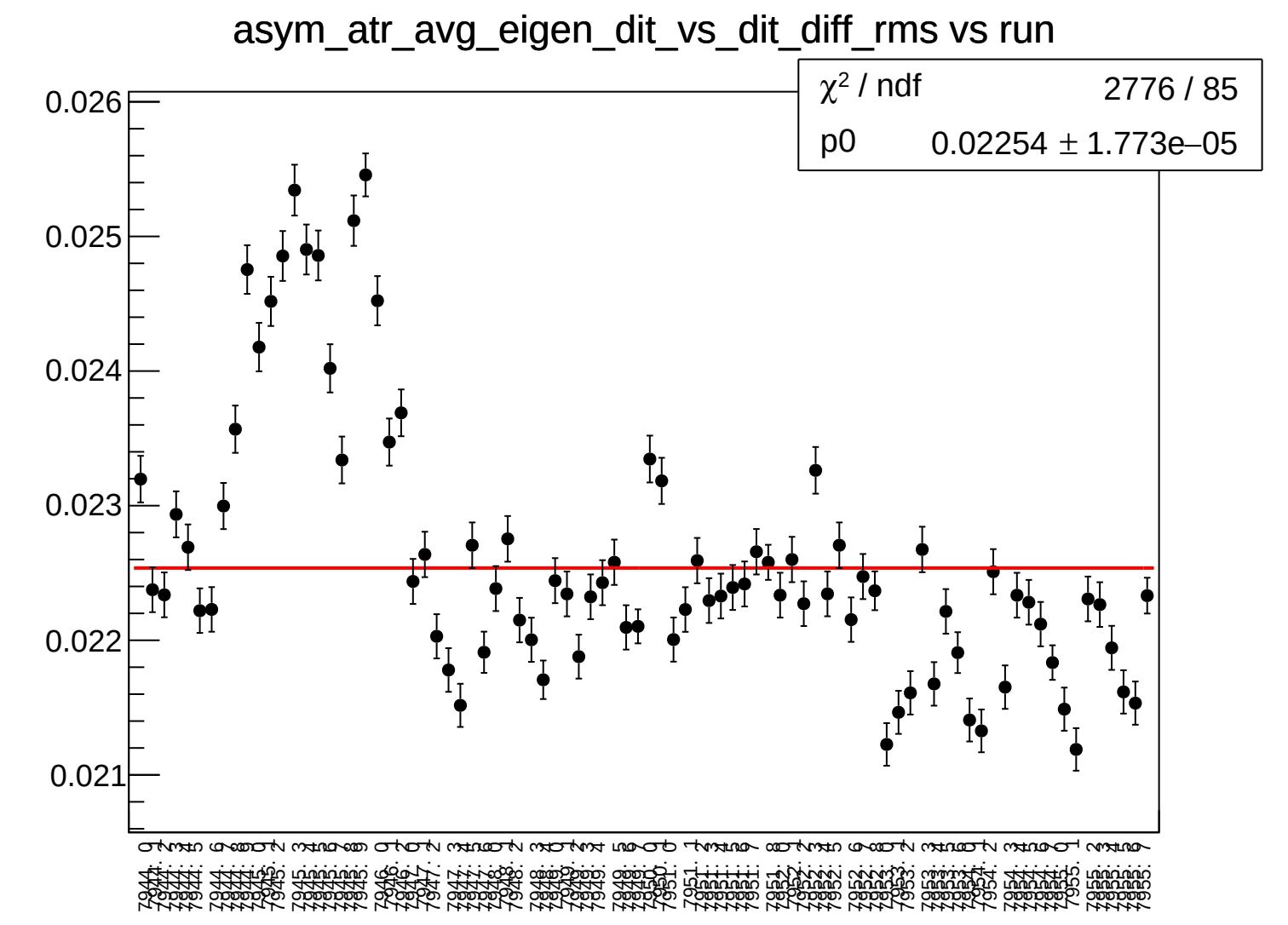

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.361e+04 / 85
p0 272.2 ± 0.2175
600
550
500
450
400
350
300
250
200

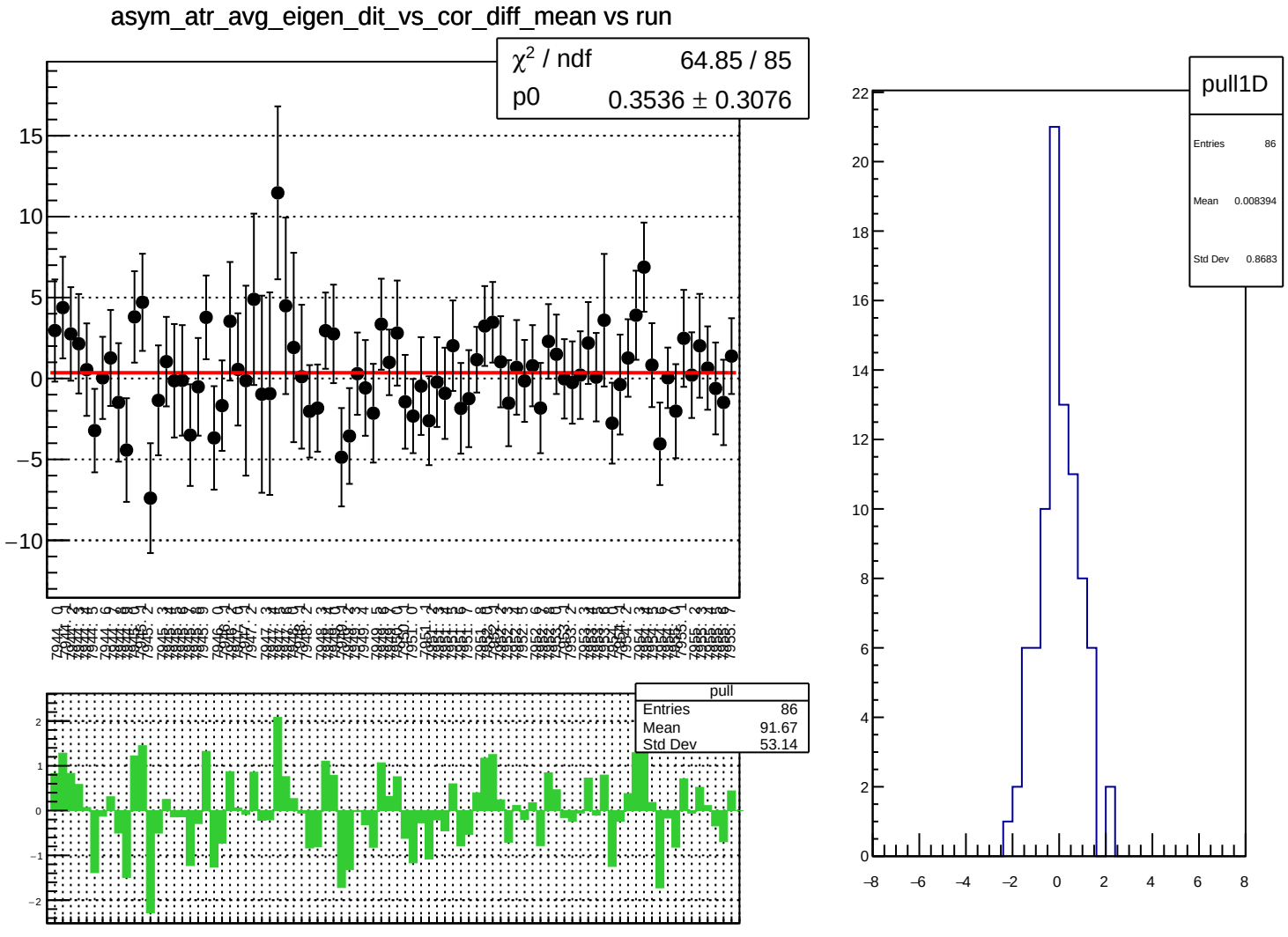

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.85 / 85
p0 0.3536 ± 0.3076
pull
Entries 86
Mean 91.66
Std Dev 53.13
pull1D
Entries 86
Mean 0.008396
Std Dev 0.8683

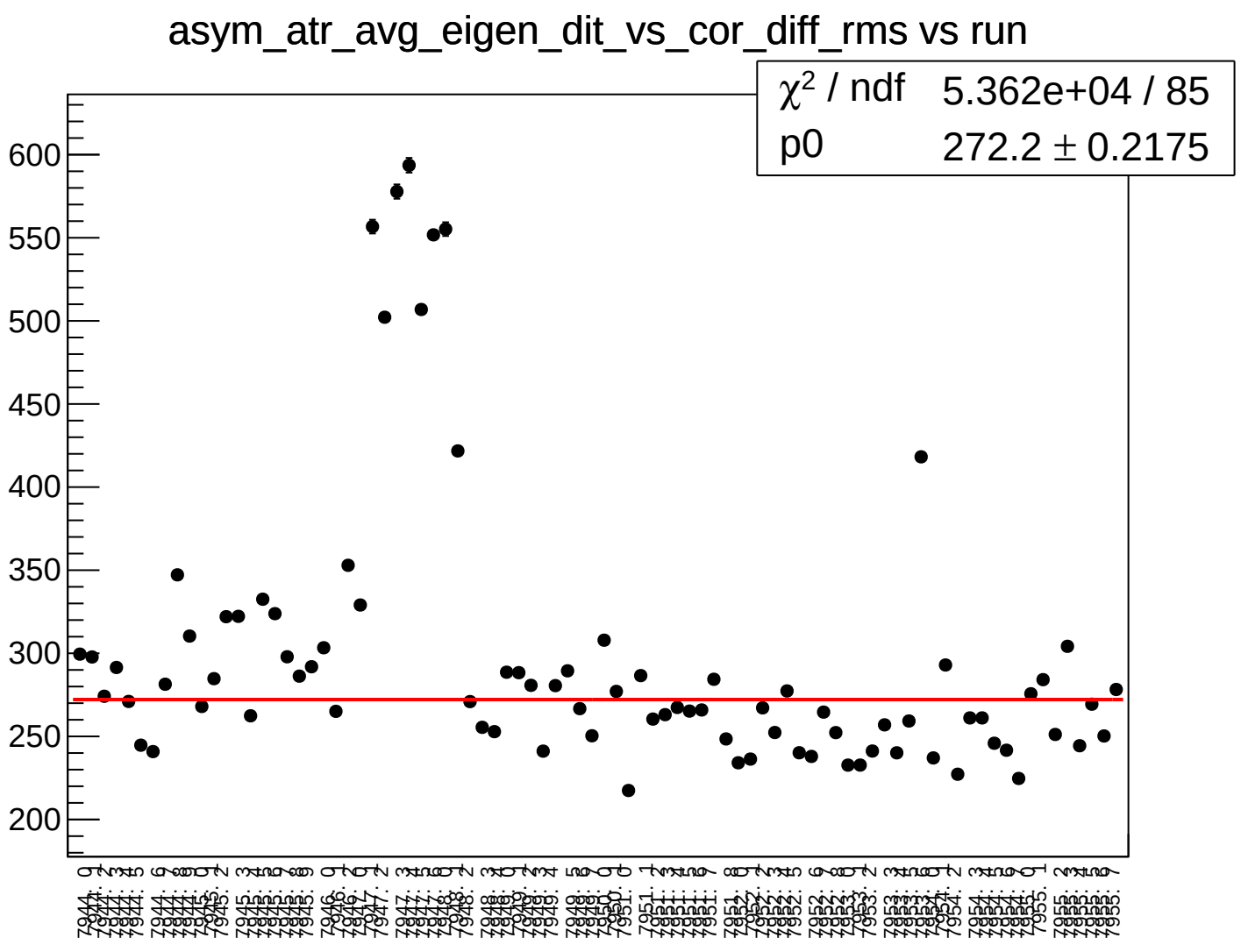

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.361e+04 / 85
p0 272.2 ± 0.2175
600
550
500
450
400
350
300
250
200

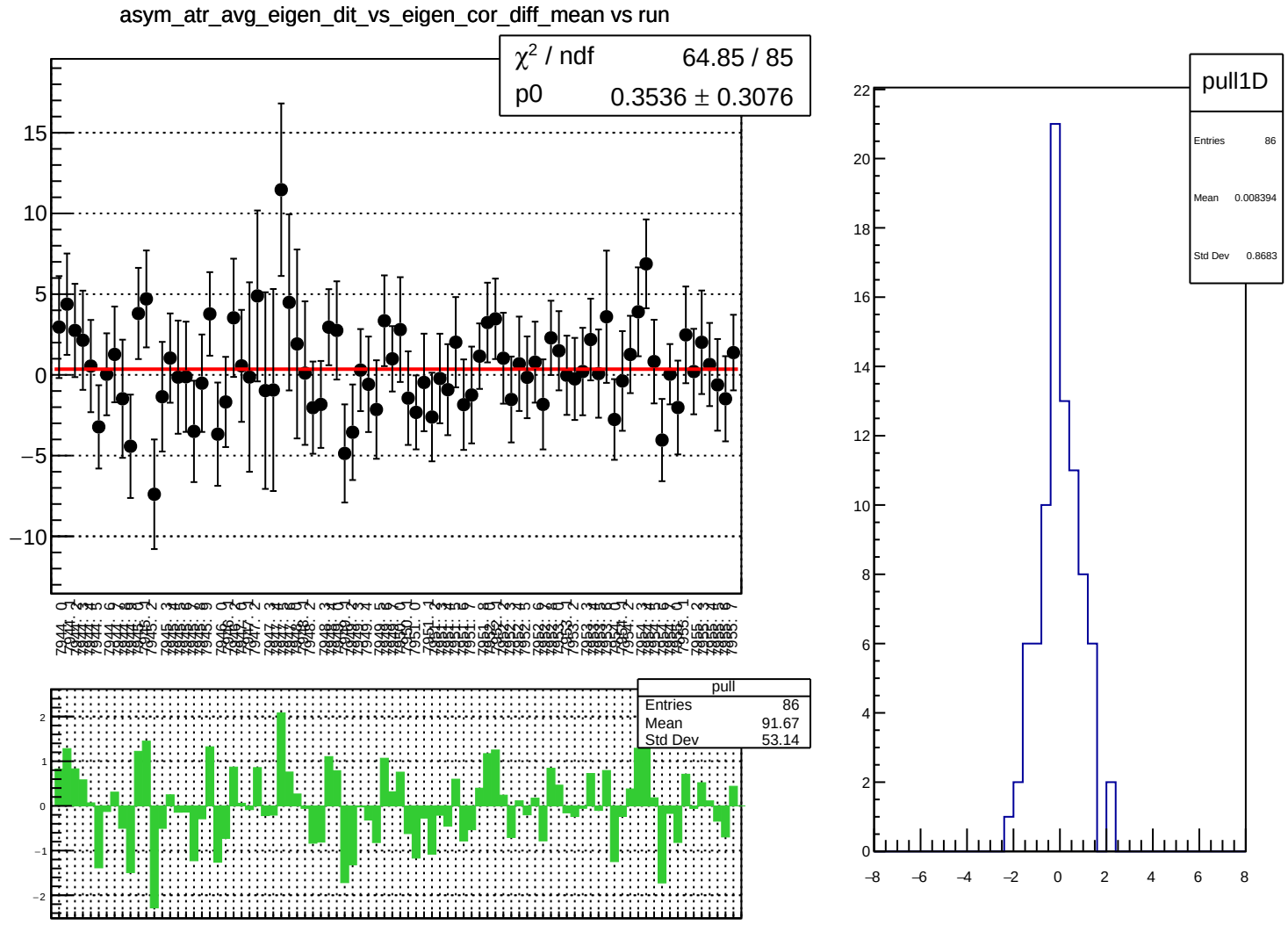

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 93.15 / 85
p0 −9.324e−06 ± 2.507e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean −105.2
Std Dev 0

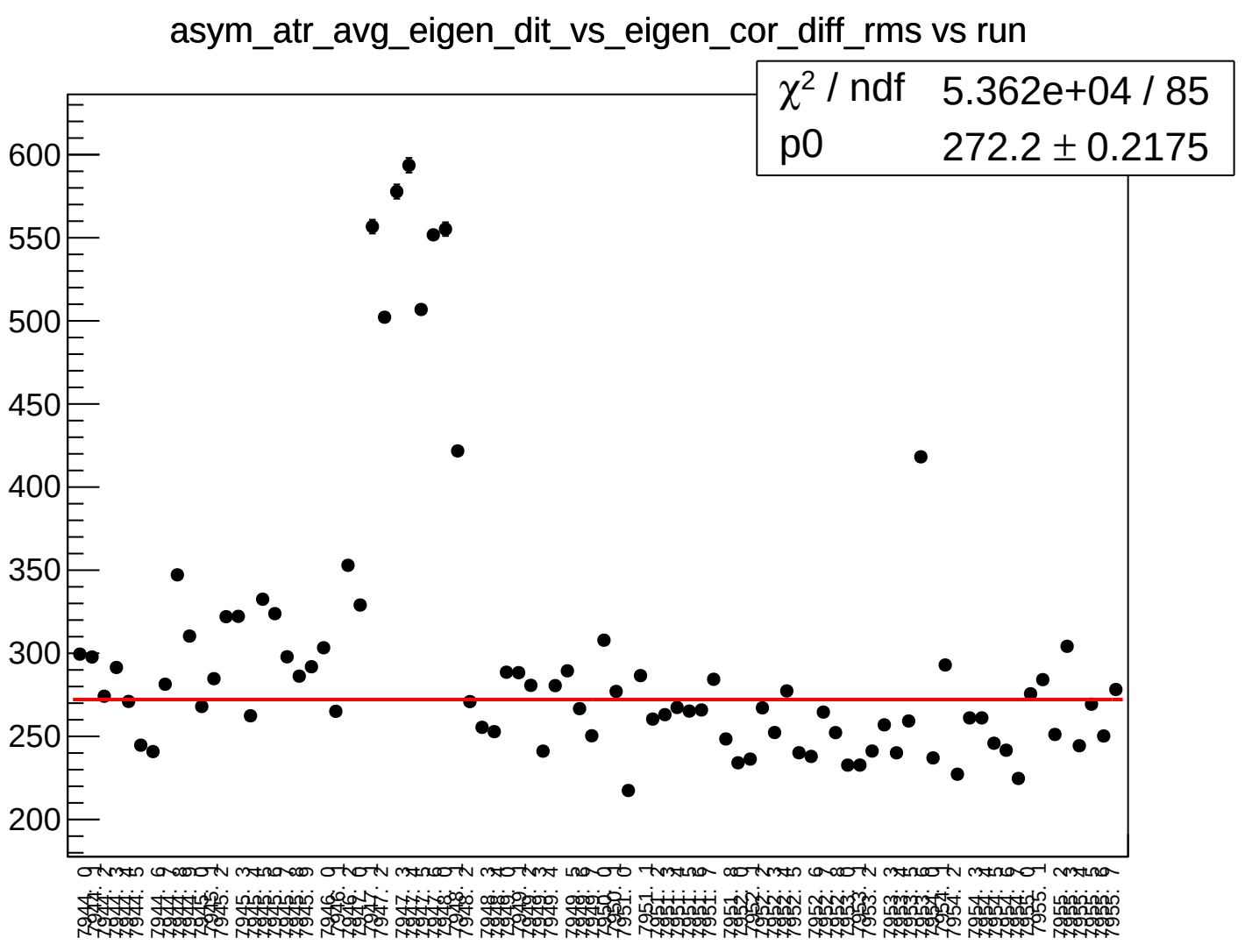

pull1D
Entries 86
Mean 0.003663
Std Dev 1.041

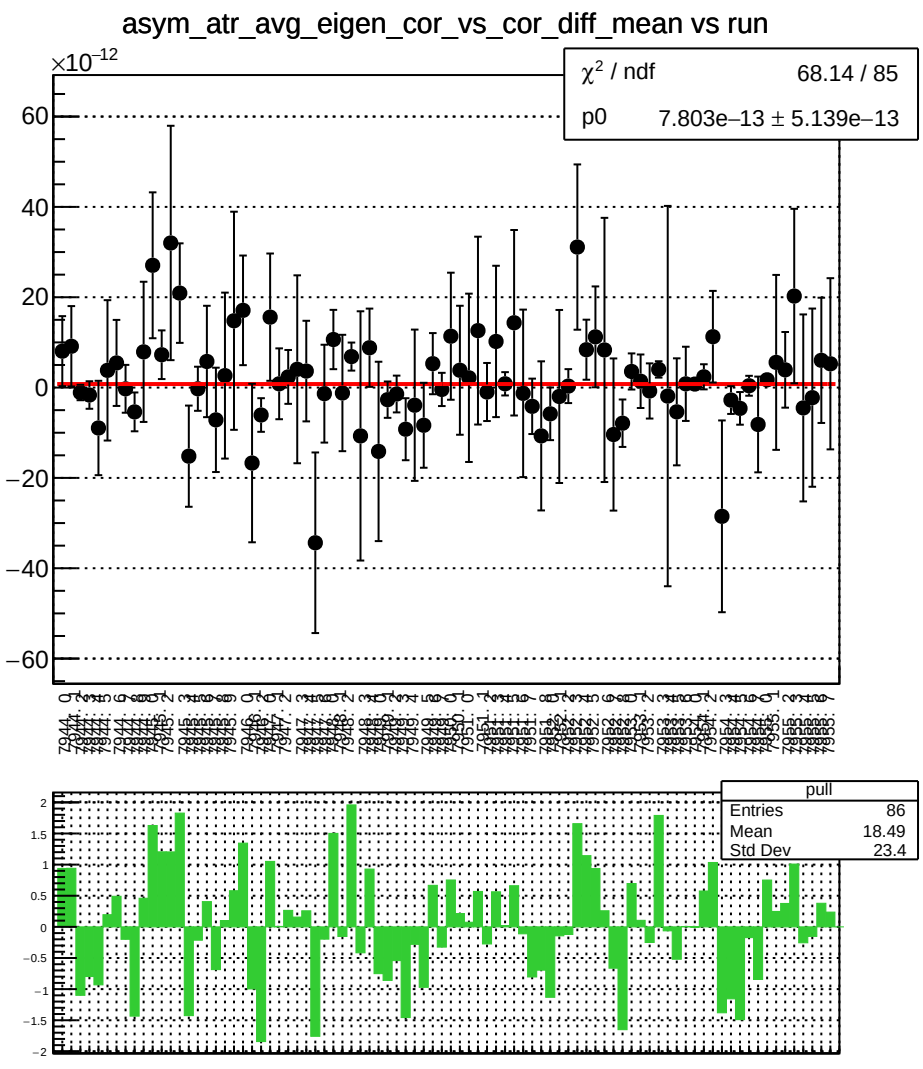

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2776 / 85
p0 0.02254 ± 1.773e−05
0.026
0.025
0.024
0.023
0.022
0.021

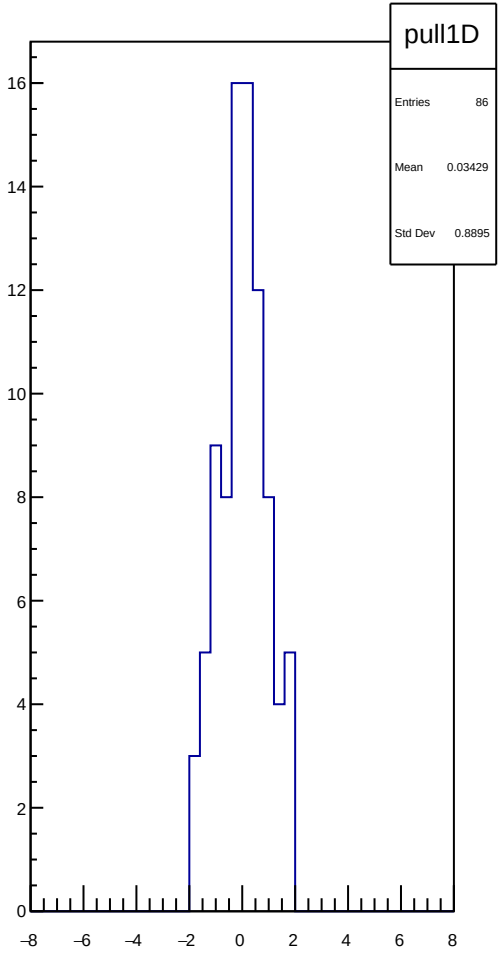

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.85 / 85
p0 0.3536 ± 0.3076
pull
Entries 86
Mean 91.67
Std Dev 53.14
pull1D
Entries 86
Mean 0.008394
Std Dev 0.8683

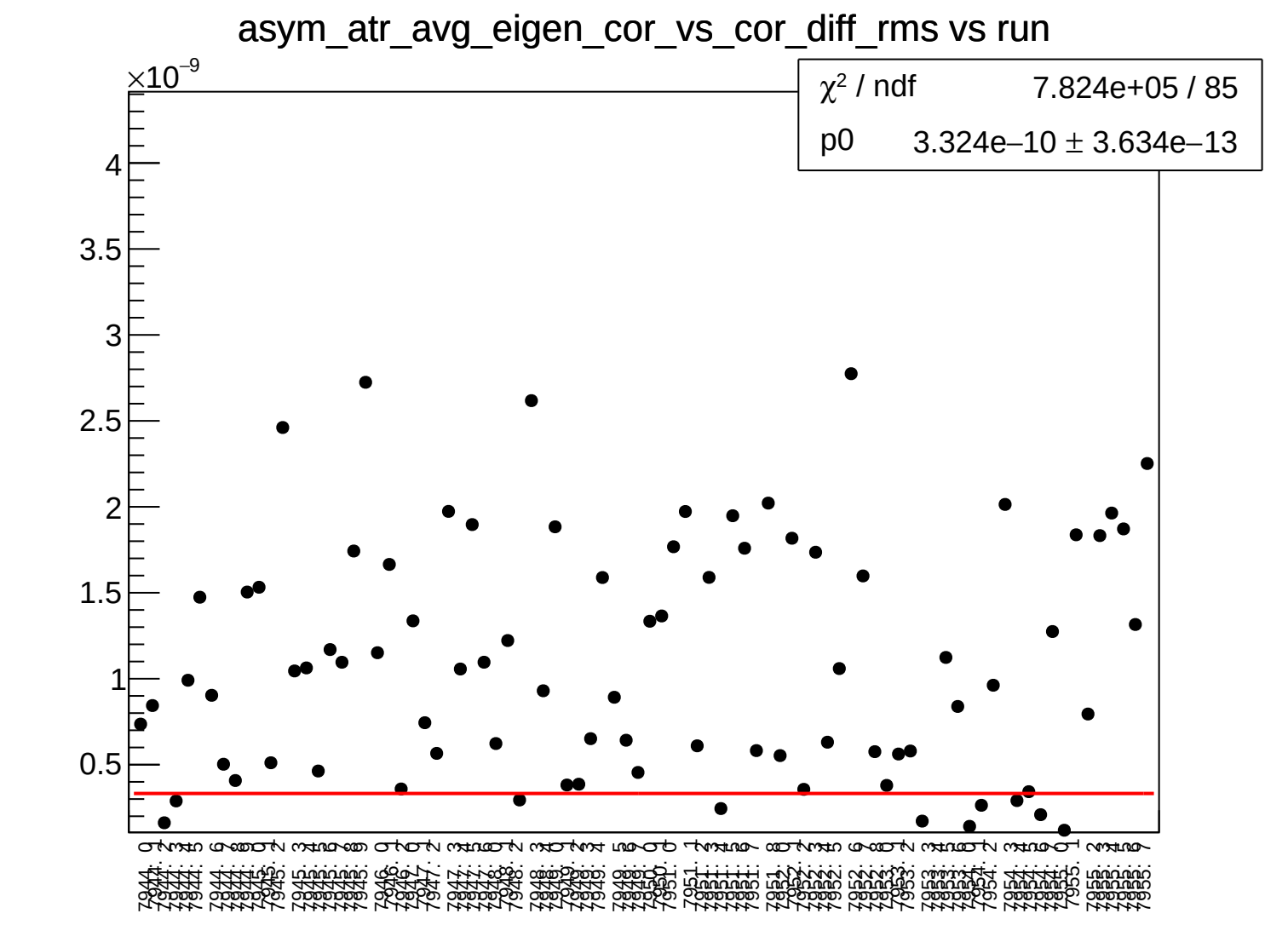

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.362e+04 / 85
p0 272.2 ± 0.2175
600
550
500
450
400
350
300
250
200

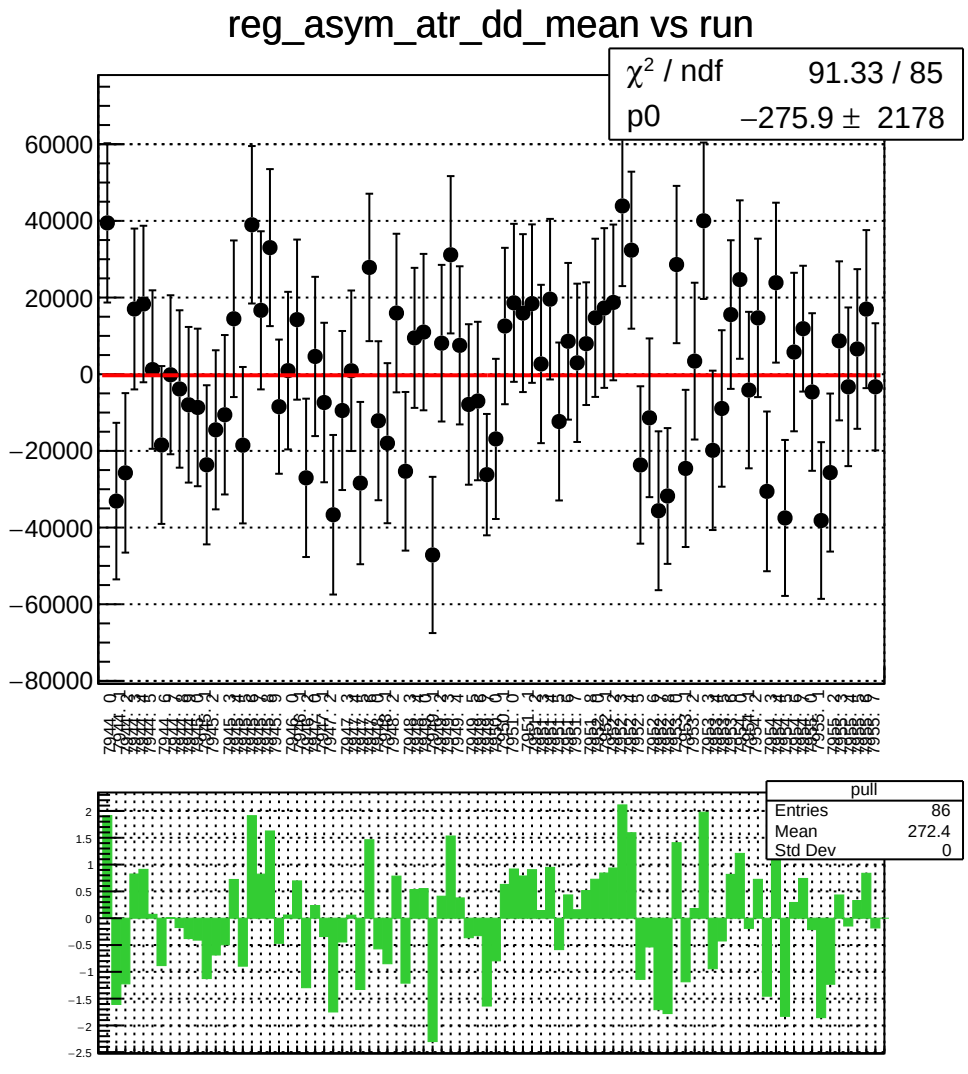

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.85 / 85
p0 0.3536 ± 0.3076
pull
Entries 86
Mean 91.67
Std Dev 53.14
pull1D
Entries 86
Mean 0.008394
Std Dev 0.8683

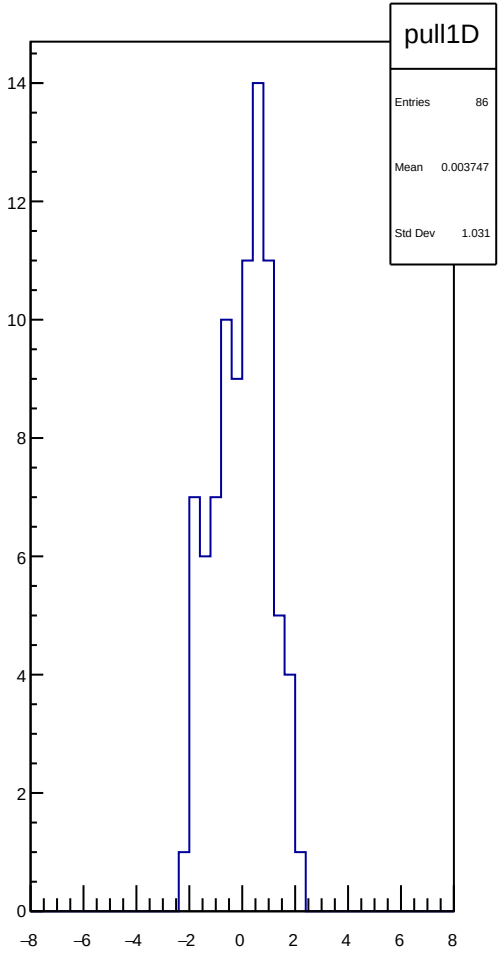

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.362e+04 / 85
p0 272.2 ± 0.2175
600
550
500
450
400
350
300
250
200

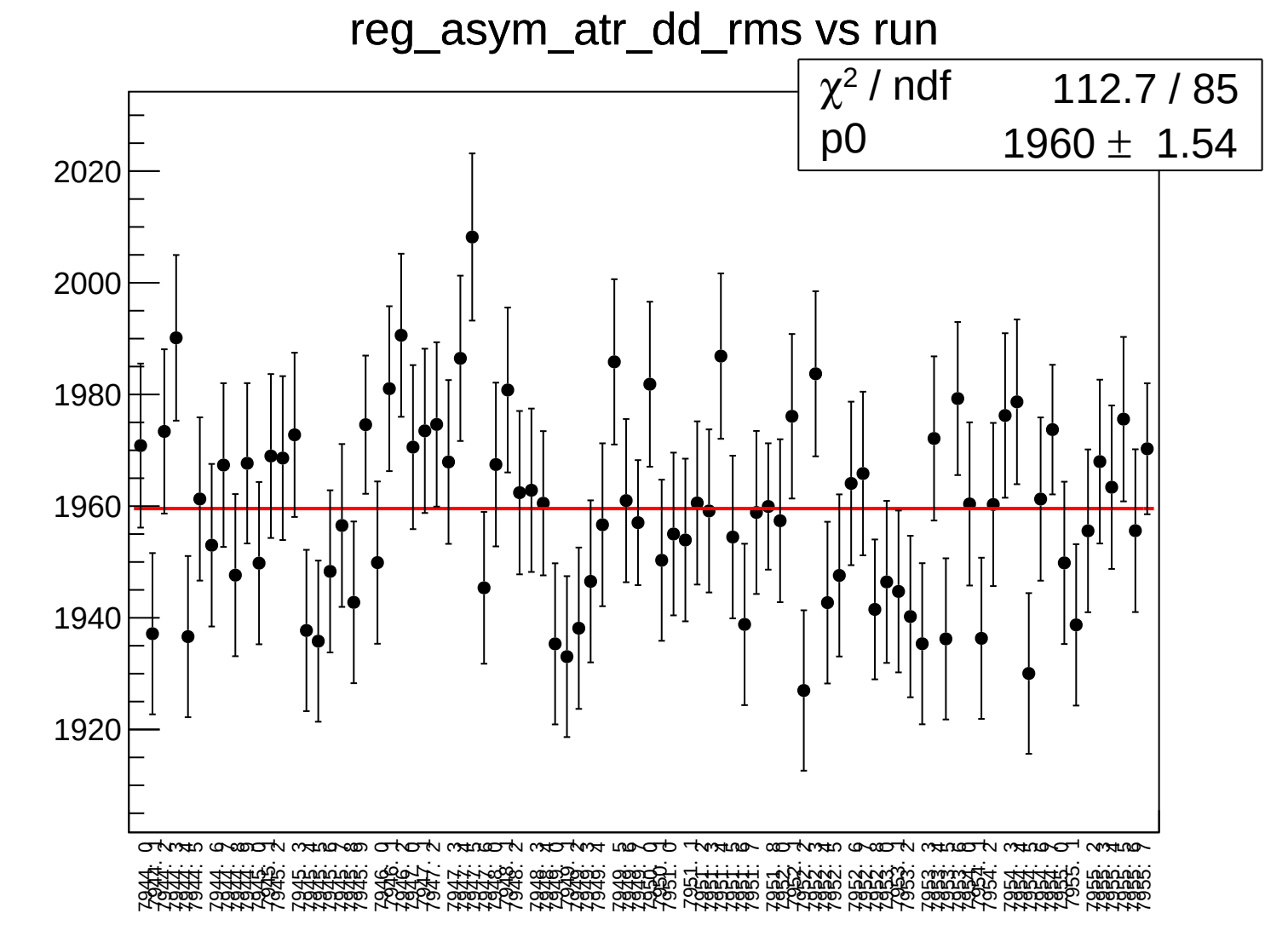

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.14 / 85
p0 7.803e−13 ± 5.139e−13
pull
Entries 86
Mean 18.49
Std Dev 23.4

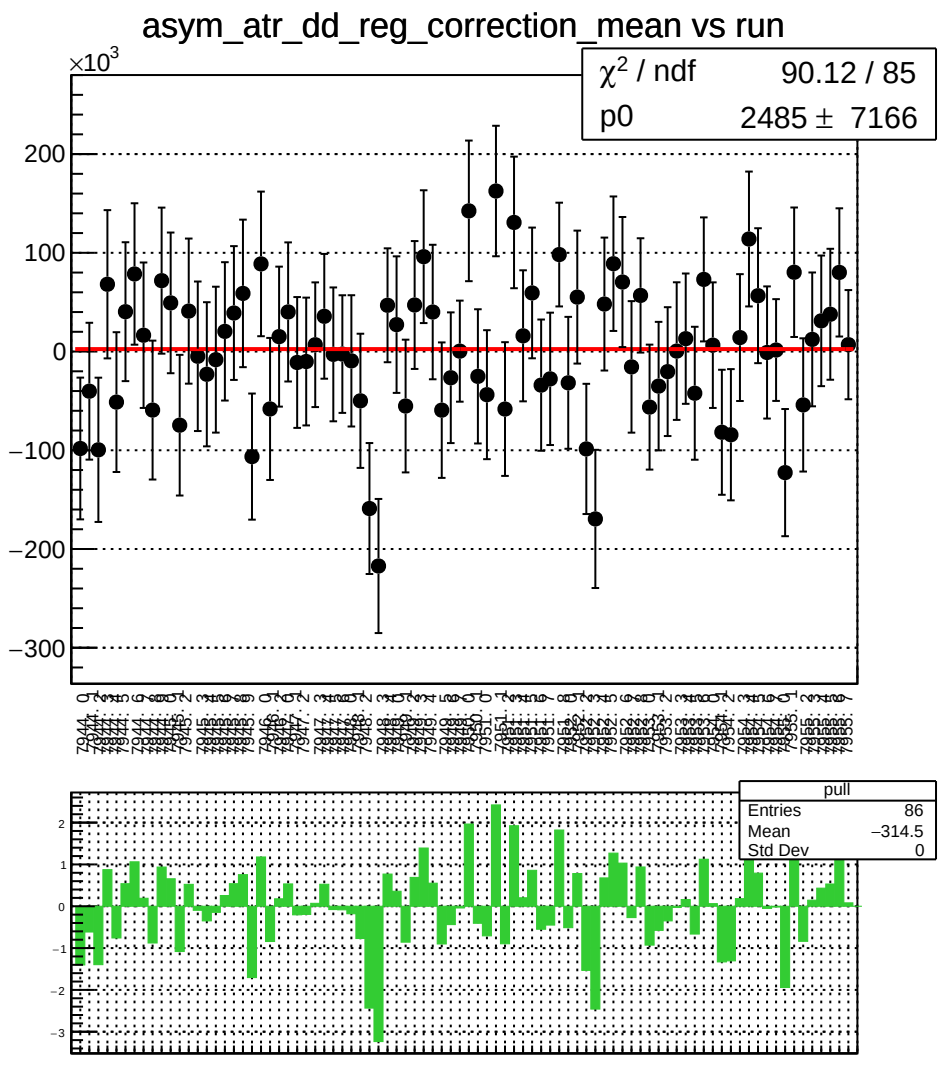

pull1D
Entries 86
Mean 0.03429
Std Dev 0.8895

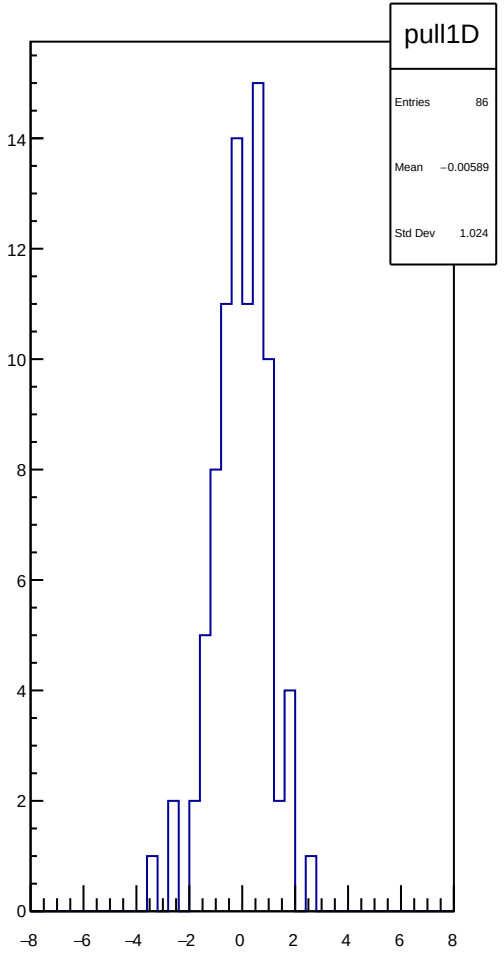

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.824e+05 / 85
p0 3.324e−10 ± 3.634e−13
4
3.5
3
2.5
2
1.5
1
0.5

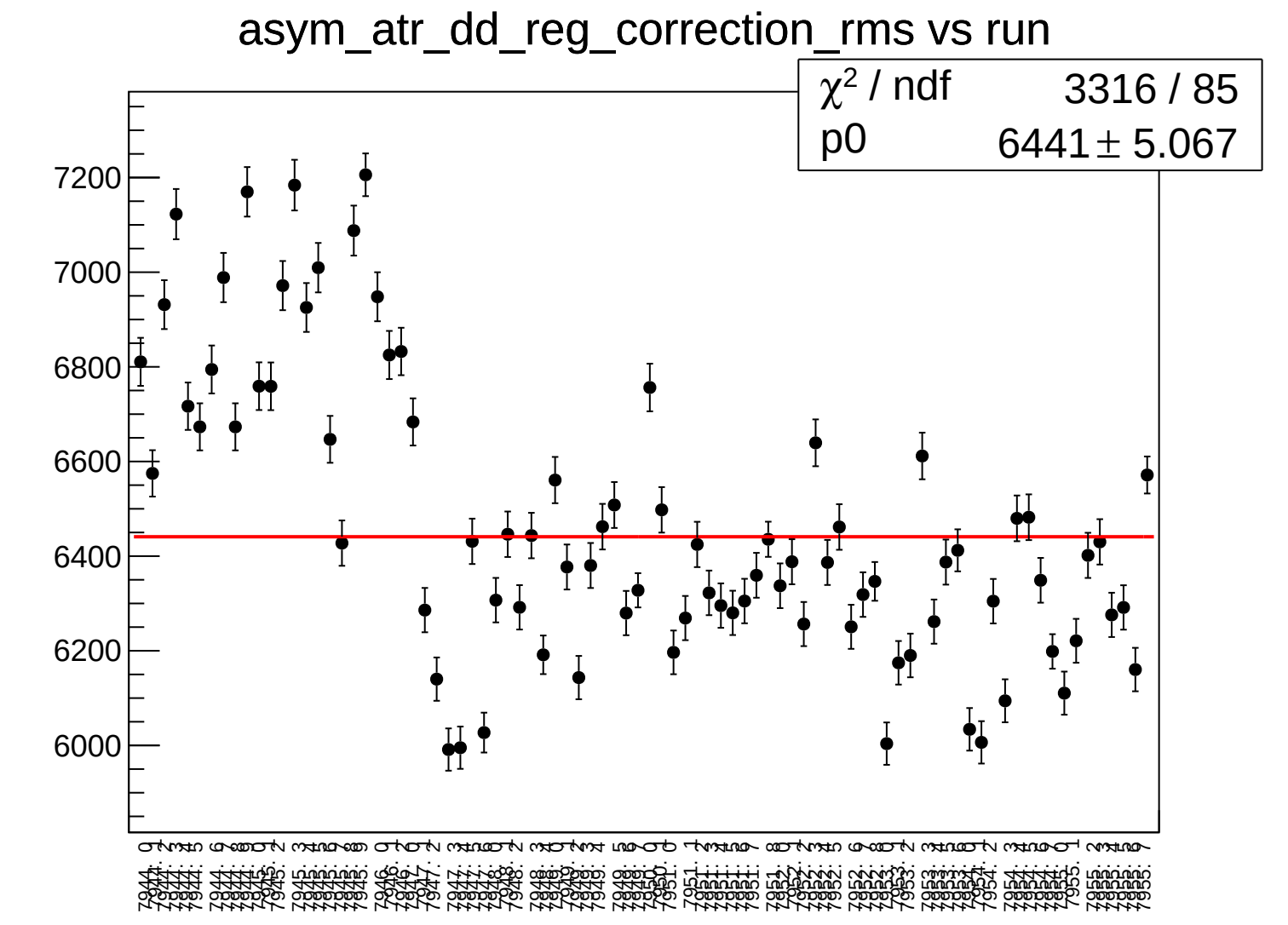

reg_asym_atr_dd_mean vs run
χ² / ndf 91.33 / 85
p0 −275.9 ± 2178
pull
Entries 86
Mean 272.4
Std Dev 0

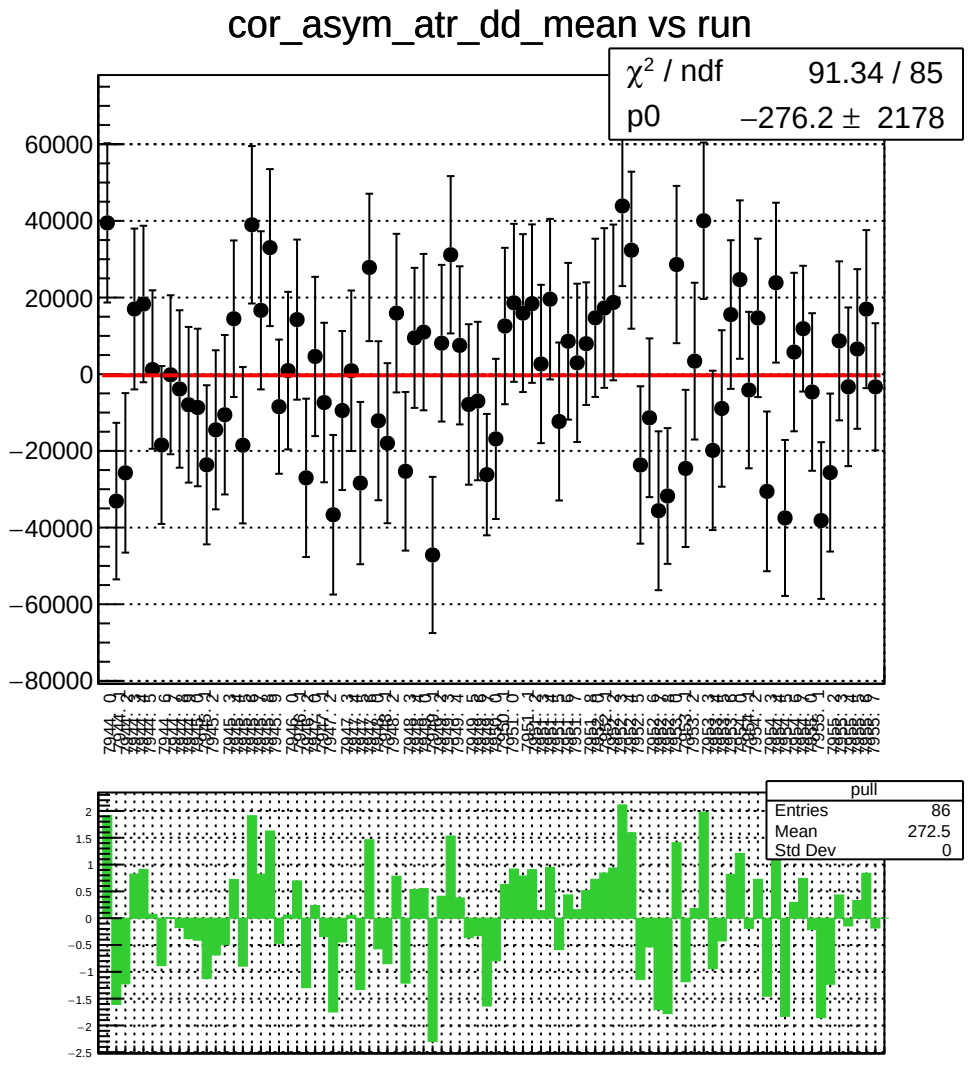

pull1D
Entries 86
Mean 0.003747
Std Dev 1.031

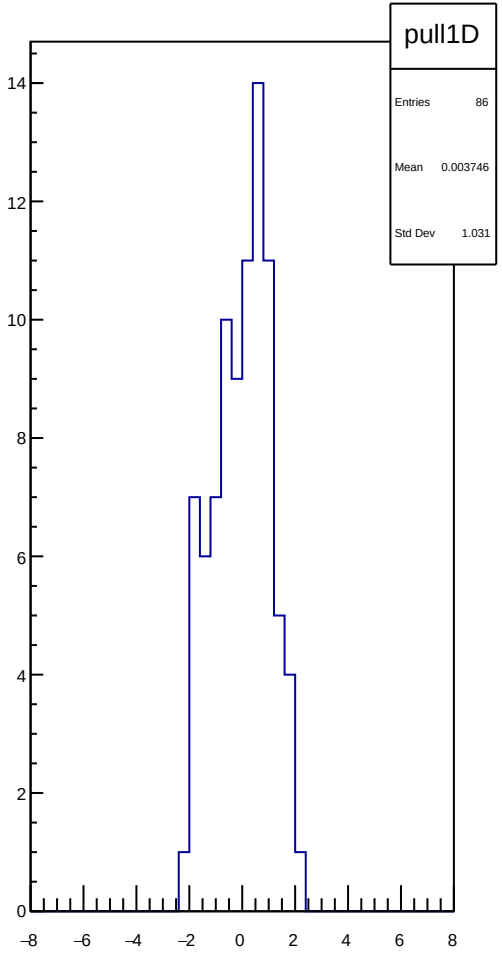

reg_asym_atr_dd_rms vs run
χ² / ndf 112.7 / 85
p0 1960 ± 1.54
2020
2000
1980
1960
1940
1920

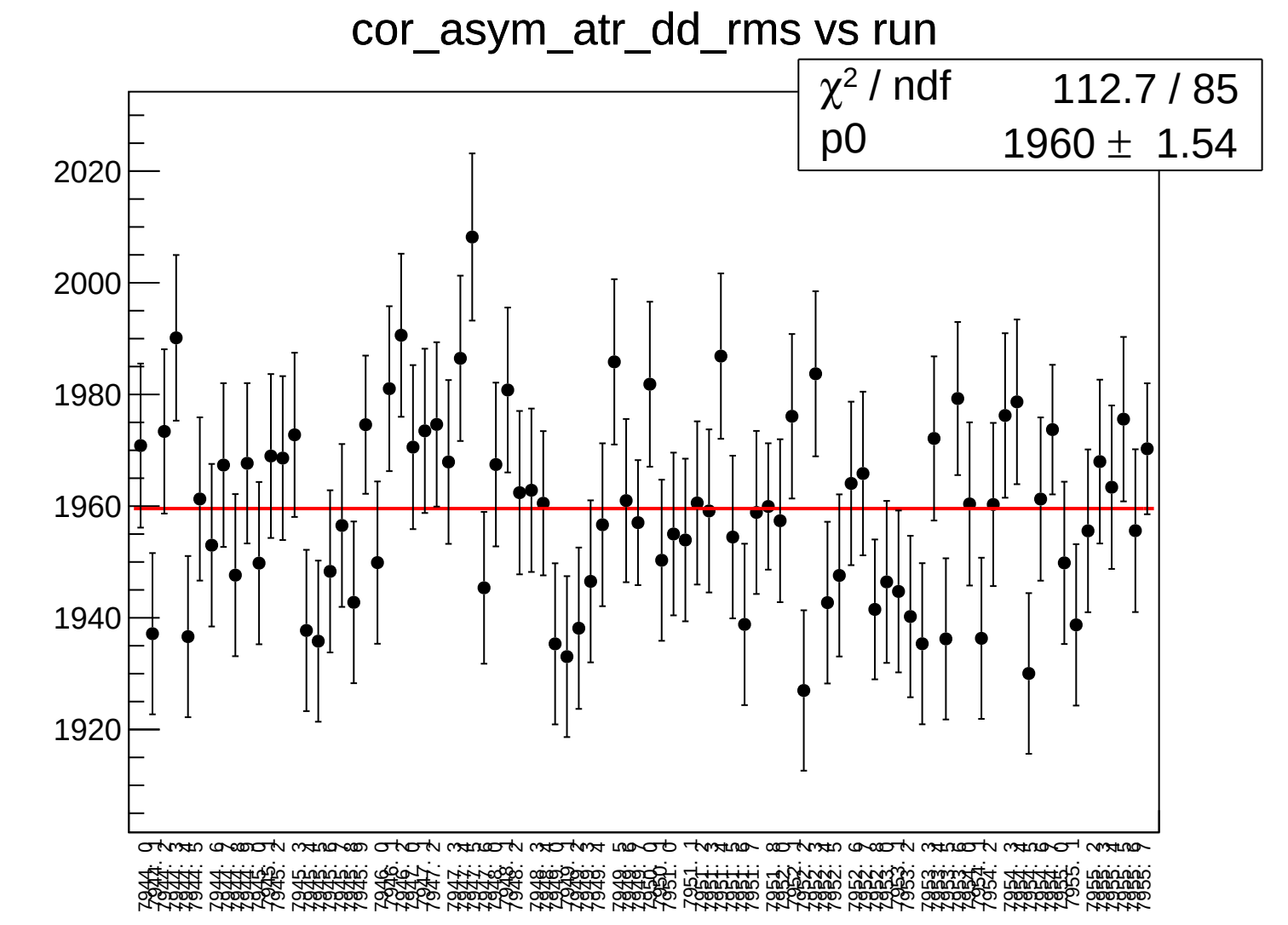

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 90.12 / 85
p0 2485 ± 7166
200
100
0
−100
−200
−300
pull
Entries 86
Mean −314.5
Std Dev 0
2
1
0
−1
−2
−3

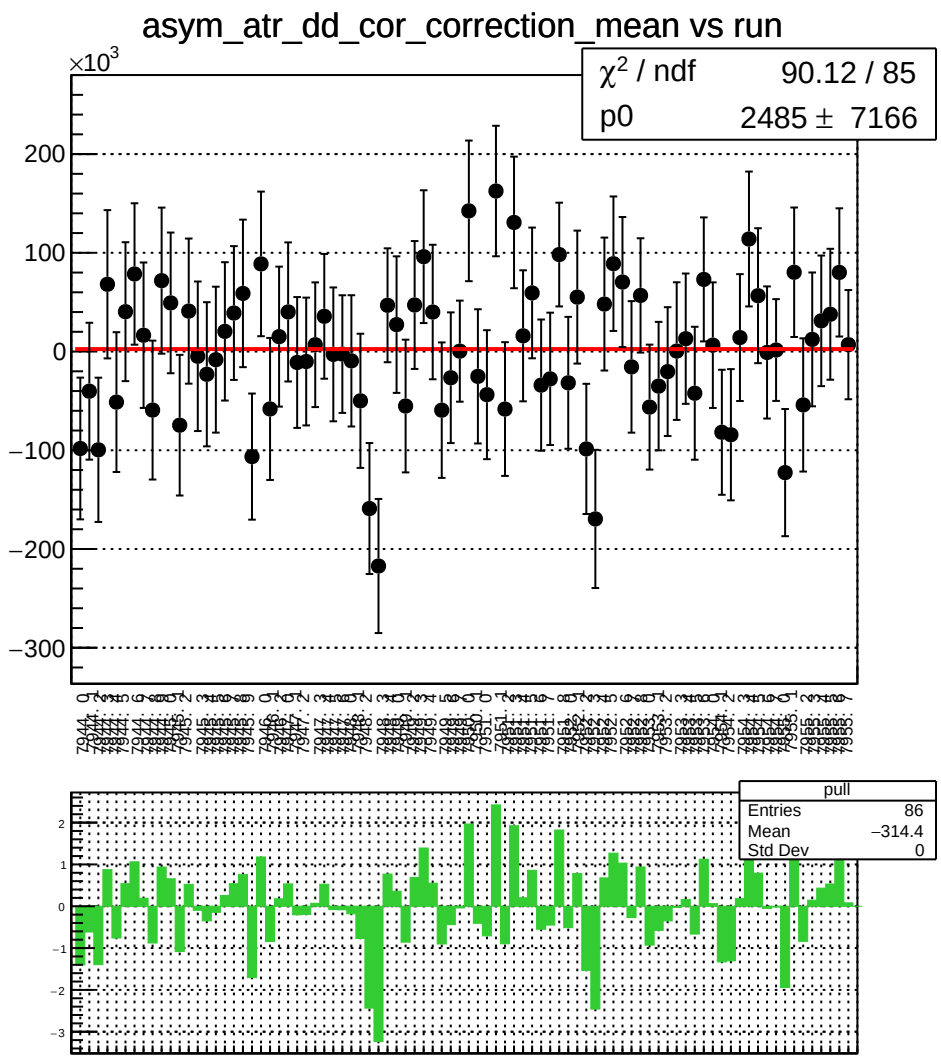

pull1D
Entries 86
Mean −0.00589
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

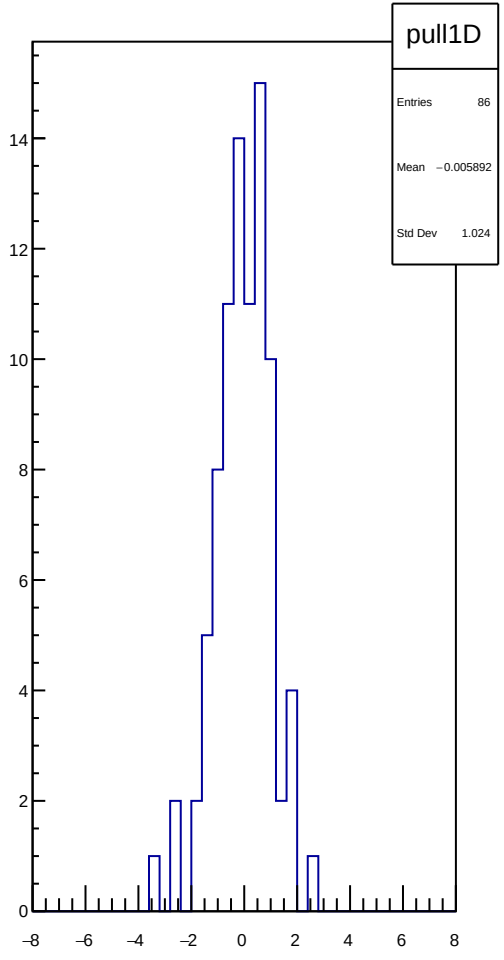

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3316 / 85
p0 6441 ± 5.067
7200
7000
6800
6600
6400
6200
6000

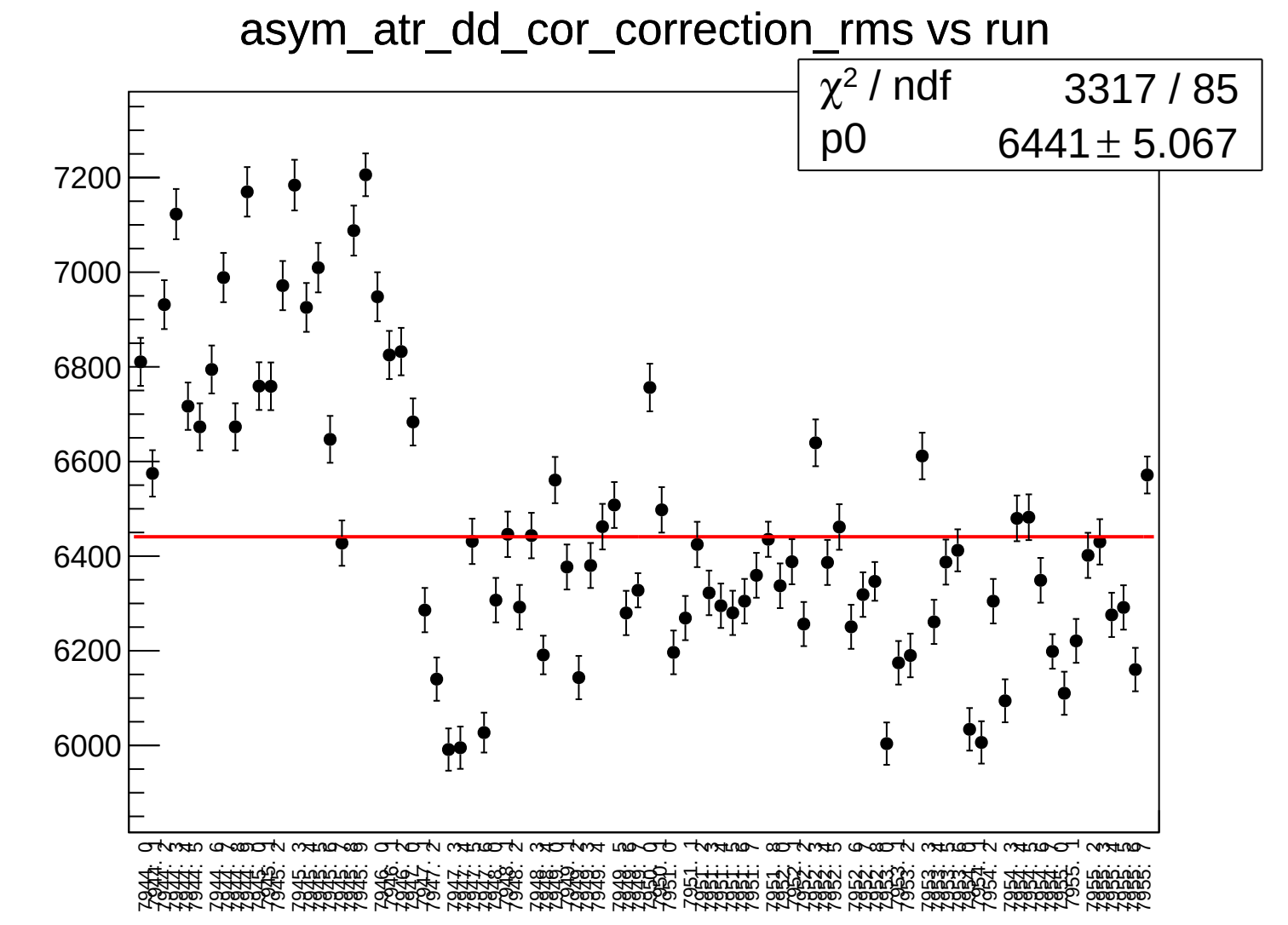

cor_asym_atr_dd_mean vs run
χ² / ndf 91.34 / 85
p0 −276.2 ± 2178
pull
Entries 86
Mean 272.5
Std Dev 0

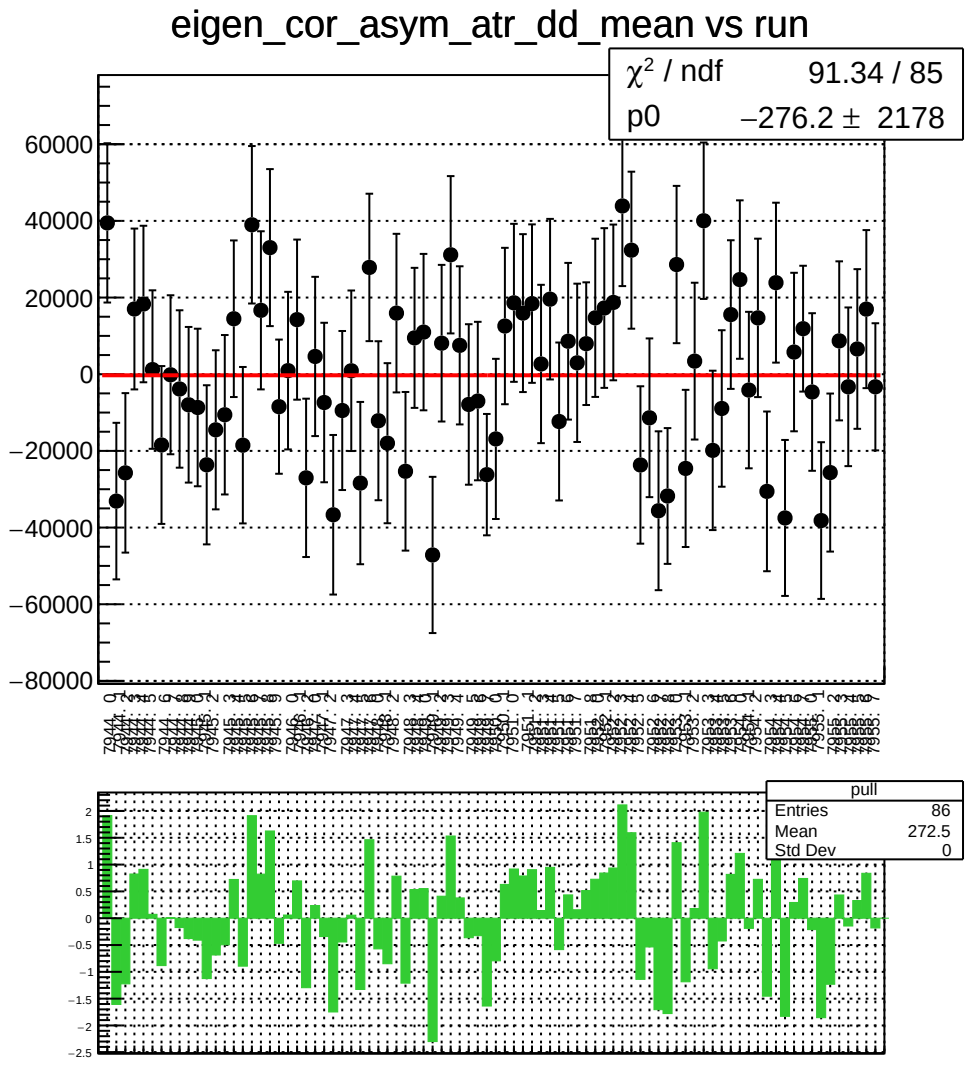

pull1D
Entries 86
Mean 0.003746
Std Dev 1.031

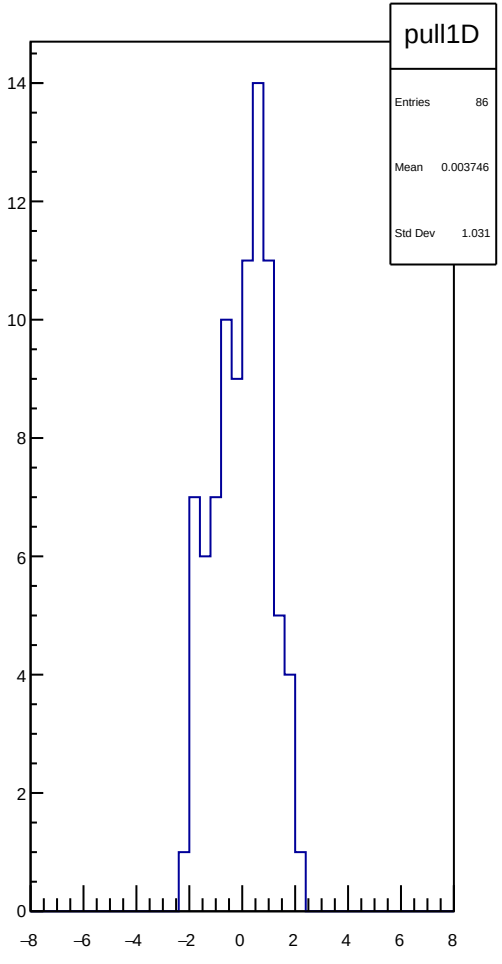

cor_asym_atr_dd_rms vs run
χ² / ndf 112.7 / 85
p0 1960 ± 1.54
2020
2000
1980
1960
1940
1920

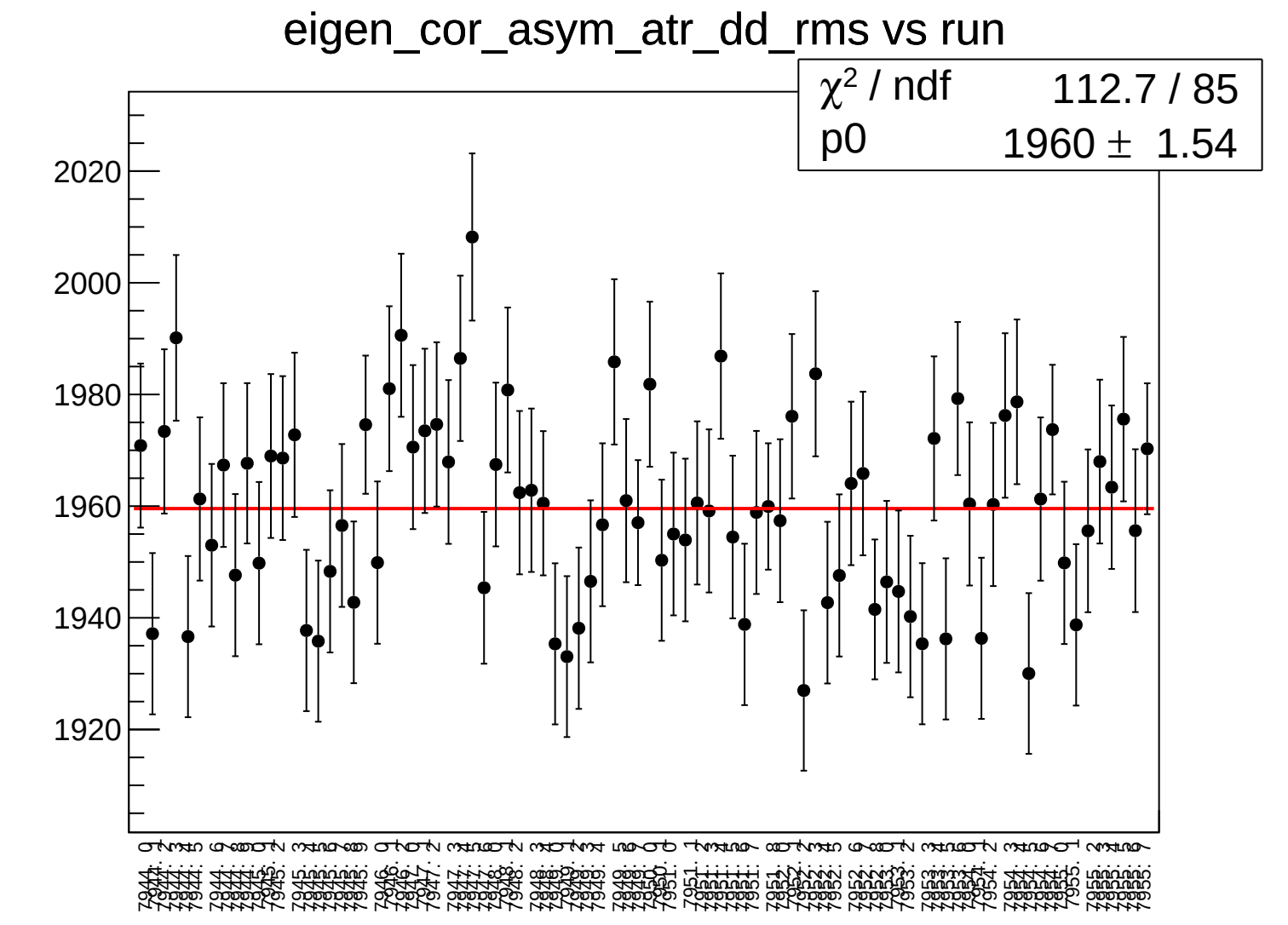

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 90.12 / 85
p0 2485 ± 7166
200
100
0
−100
−200
−300
pull
Entries 86
Mean −314.4
Std Dev 0
2
1
0
−1
−2
−3

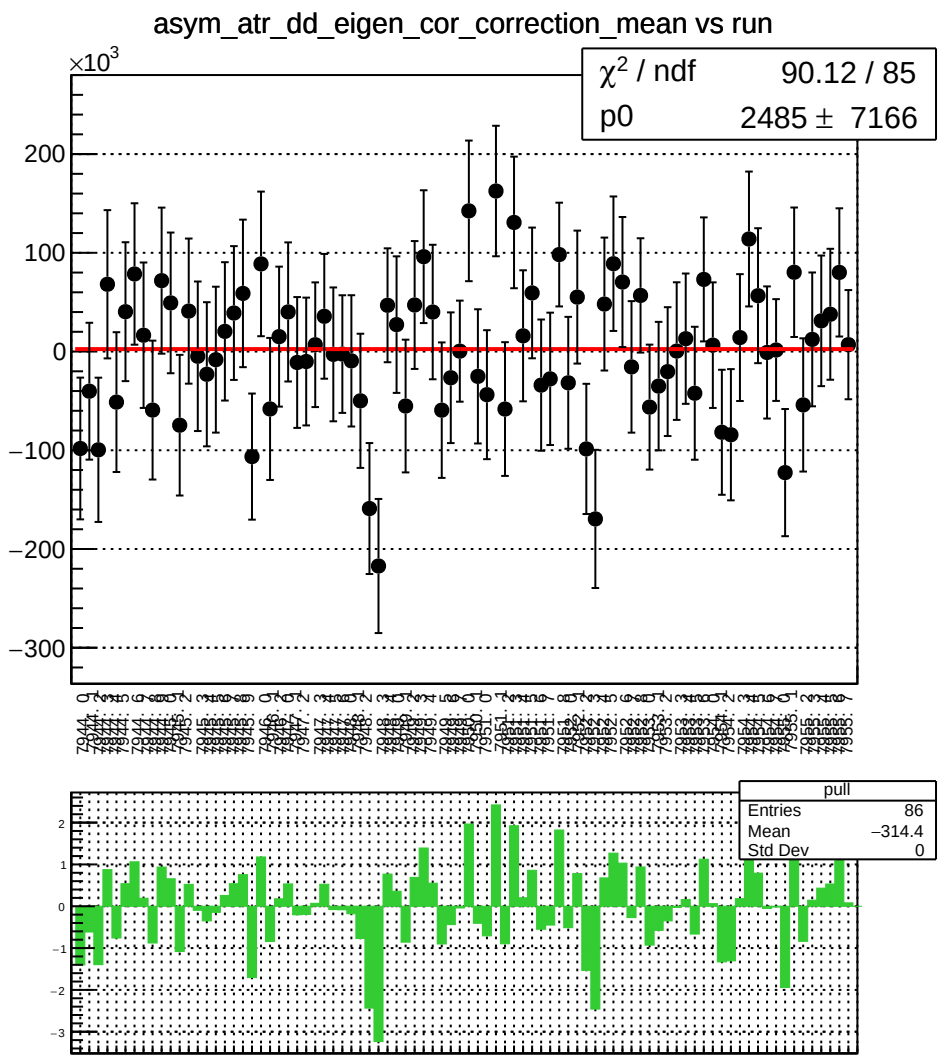

pull1D
Entries 86
Mean −0.005892
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

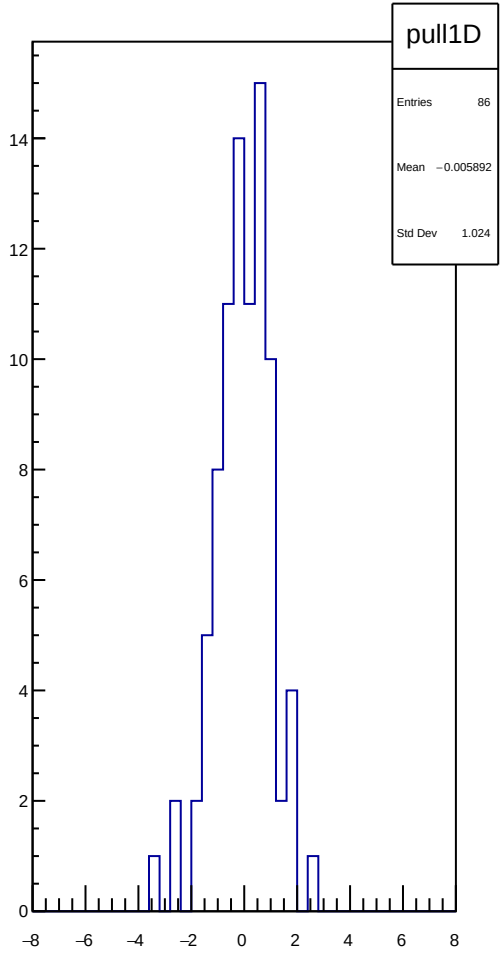

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3317 / 85
p0 6441 ± 5.067
7200
7000
6800
6600
6400
6200
6000

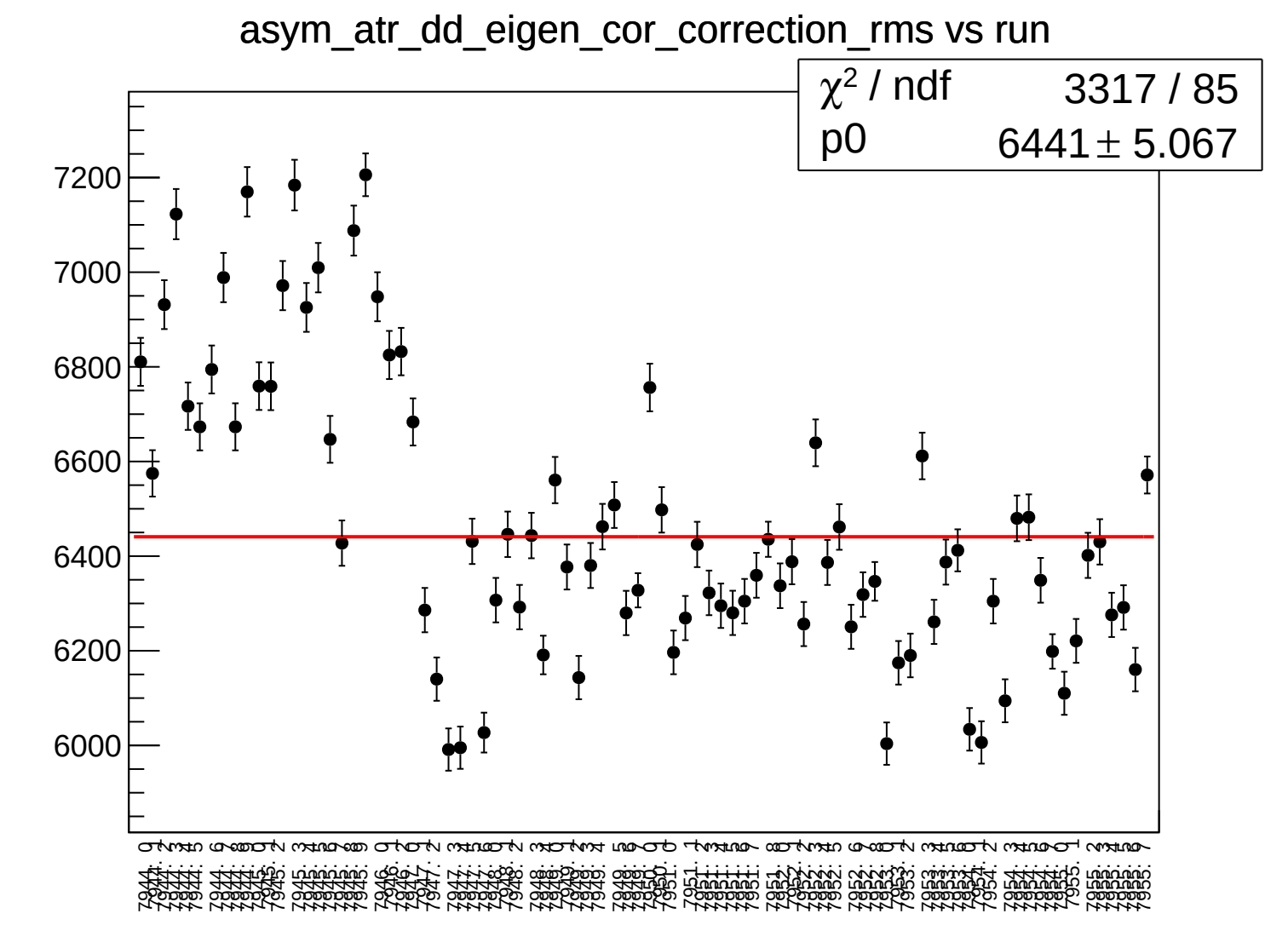

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 91.34 / 85
p0 −276.2 ± 2178
pull
Entries 86
Mean 272.5
Std Dev 0

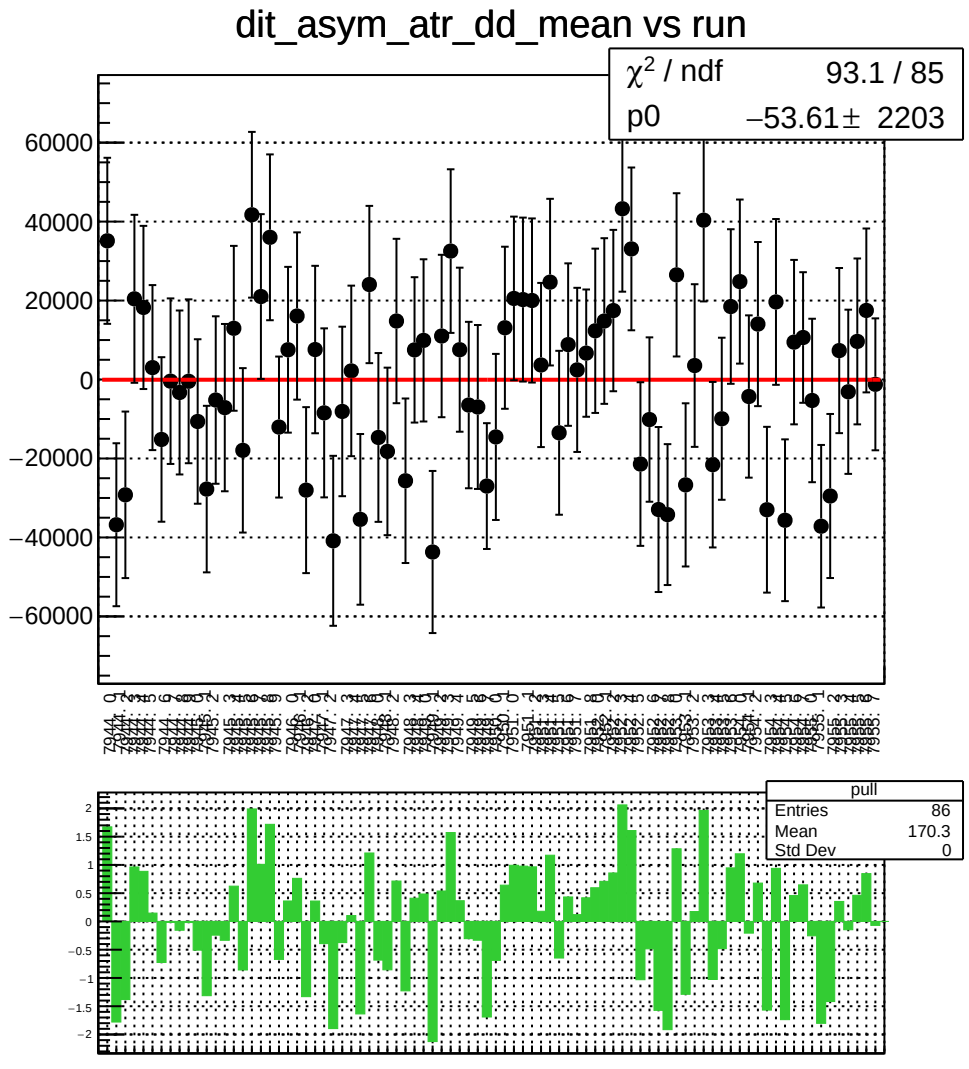

pull1D
Entries 86
Mean 0.003746
Std Dev 1.031

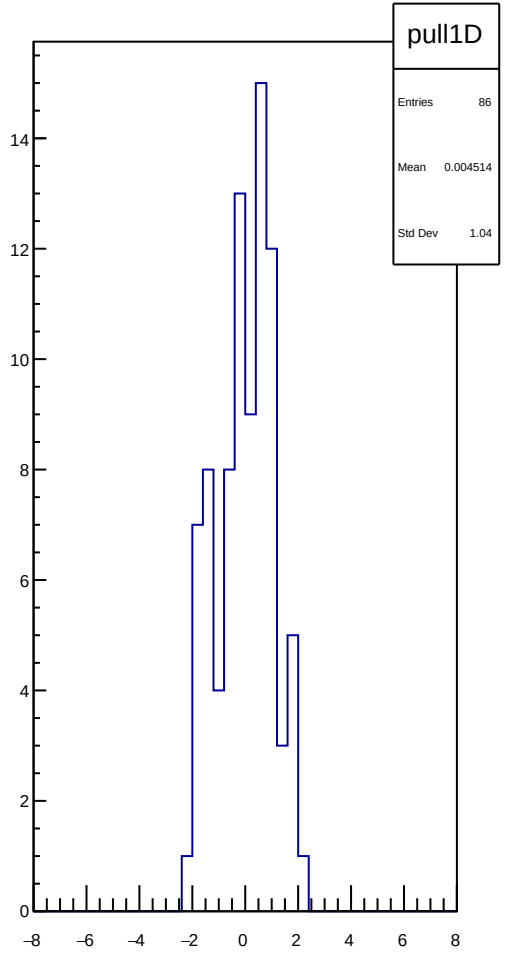

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 112.7 / 85
p0 1960 ± 1.54
2020
2000
1980
1960
1940
1920

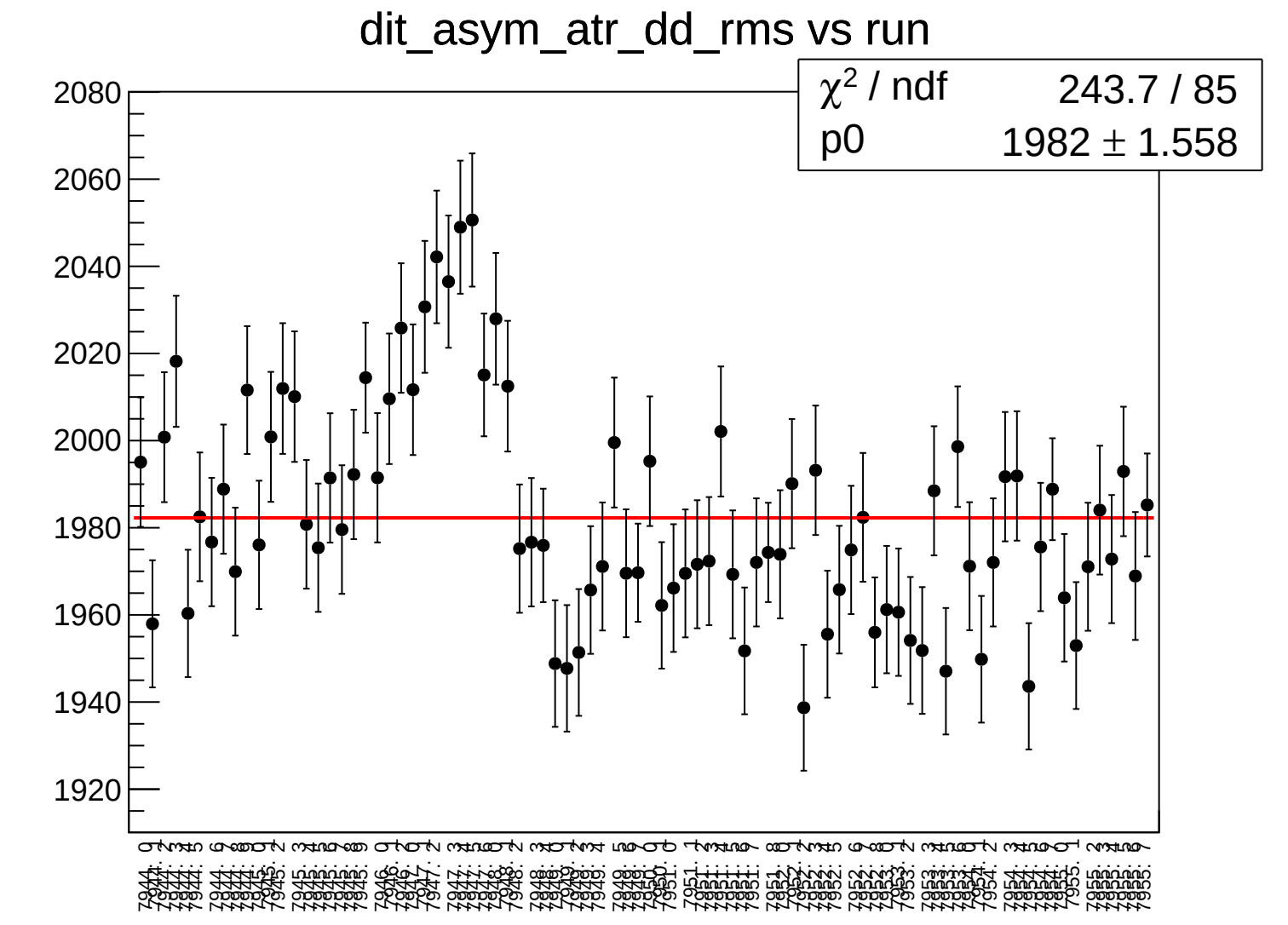

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.12 / 85
p0 2485 ± 7166
200
100
0
−100
−200
−300
pull
Entries 86
Mean −314.4
Std Dev 0
2
1
0
−1
−2
−3

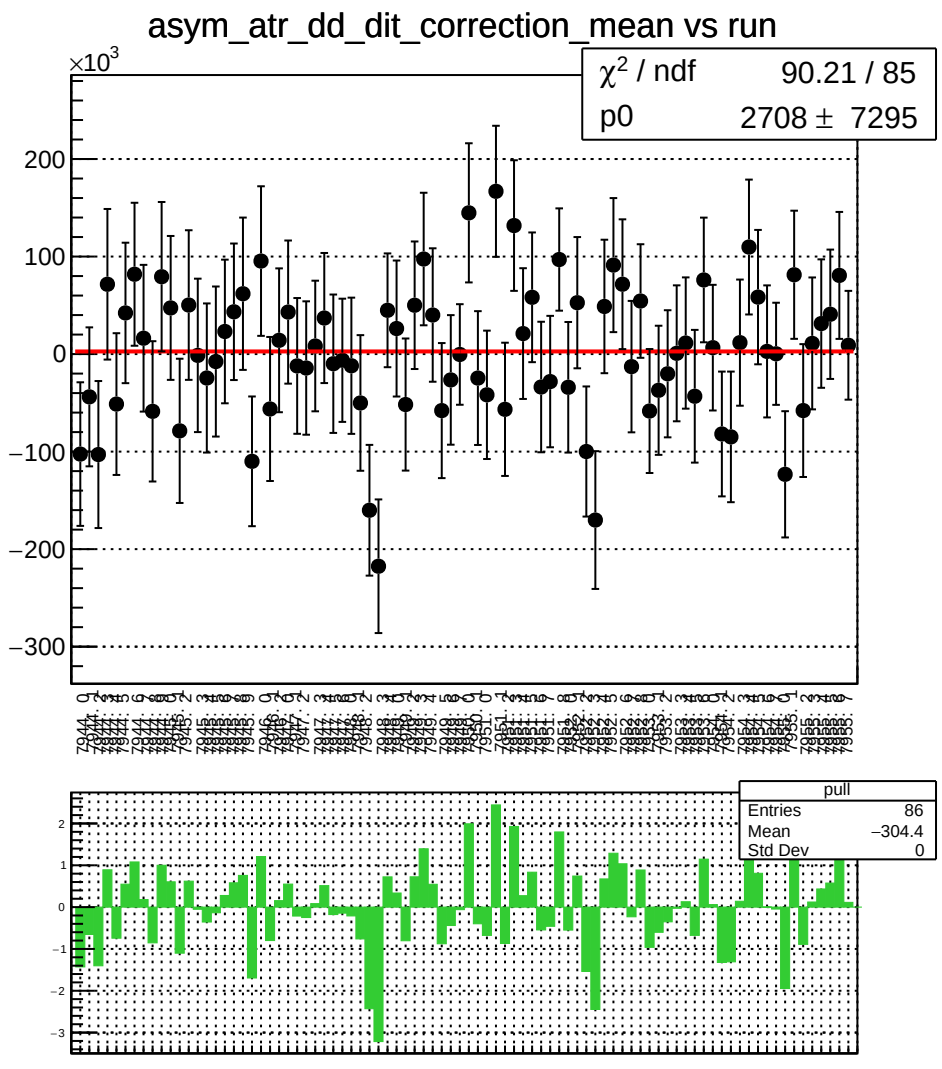

pull1D
Entries 86
Mean −0.005892
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

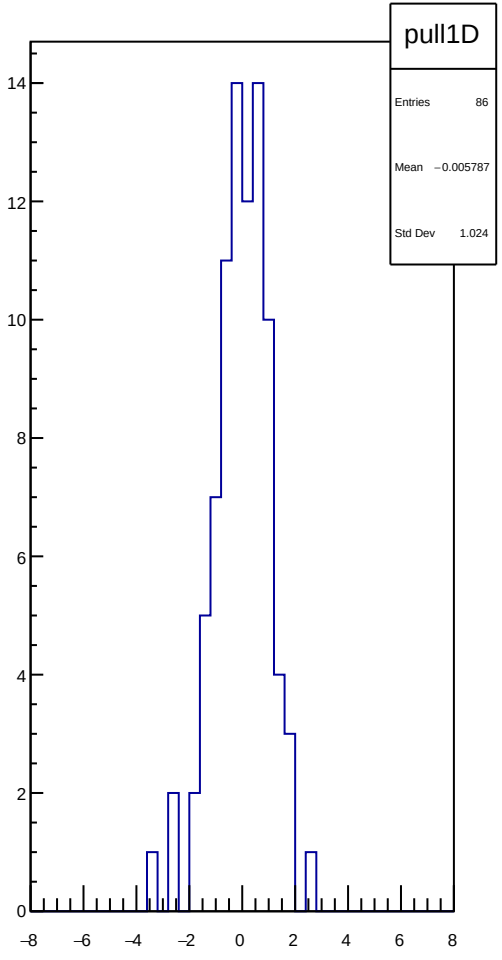

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3317 / 85
p0 6441 ± 5.067
7200
7000
6800
6600
6400
6200
6000


dit_asym_atr_dd_mean vs run
χ² / ndf 93.1 / 85
p0 −53.61± 2203
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 170.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

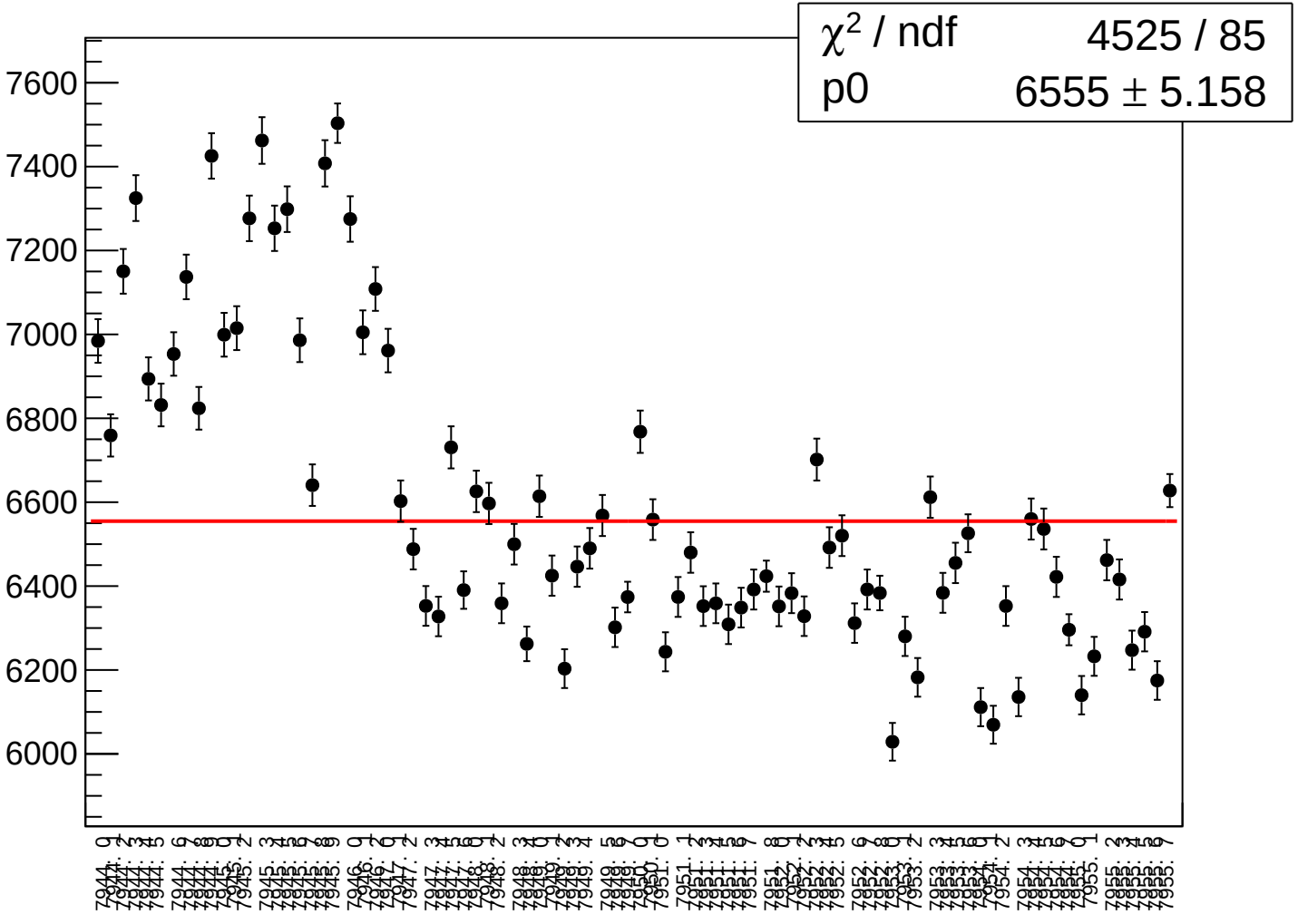

pull1D
Entries 86
Mean 0.004514
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

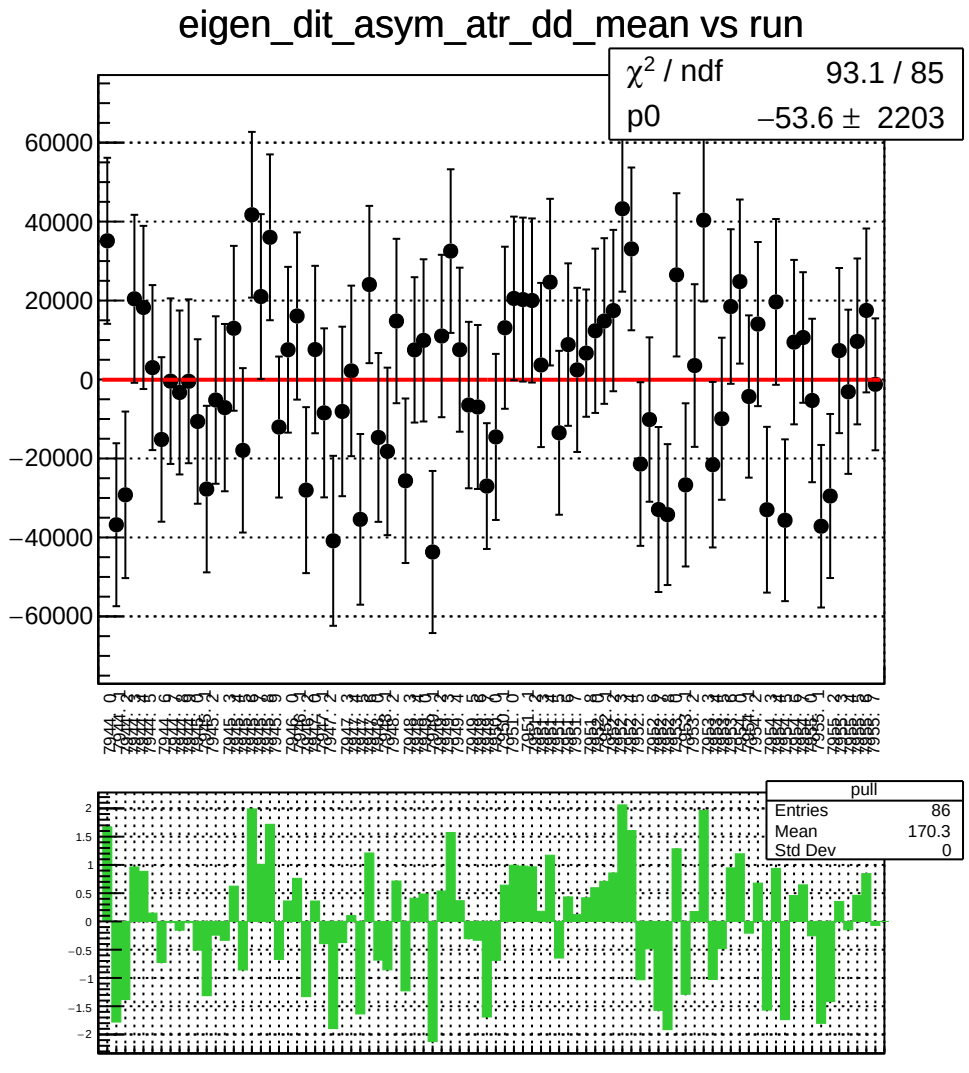

dit_asym_atr_dd_rms vs run
χ² / ndf 243.7 / 85
p0 1982 ± 1.558
2080
2060
2040
2020
2000
1980
1960
1940
1920

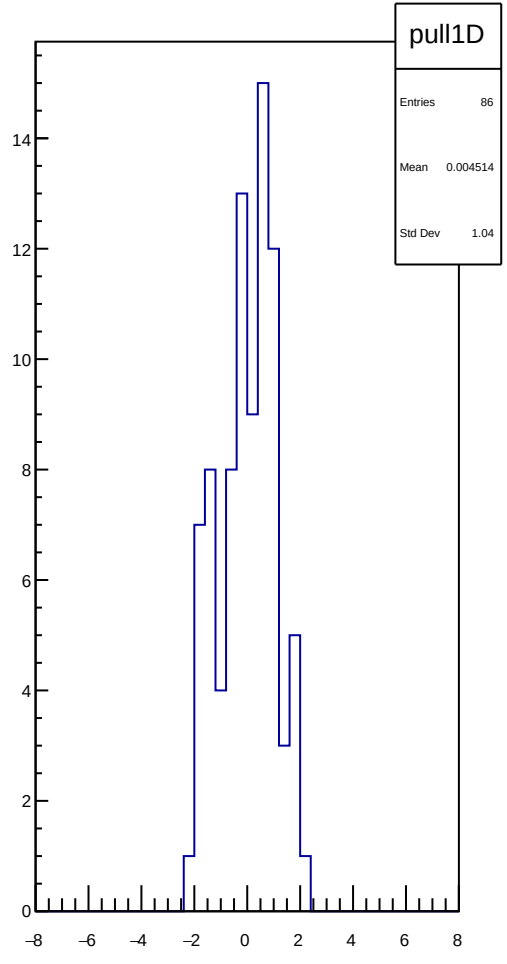

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 90.21 / 85
p0 2708 ± 7295
pull
Entries 86
Mean −304.4
Std Dev 0

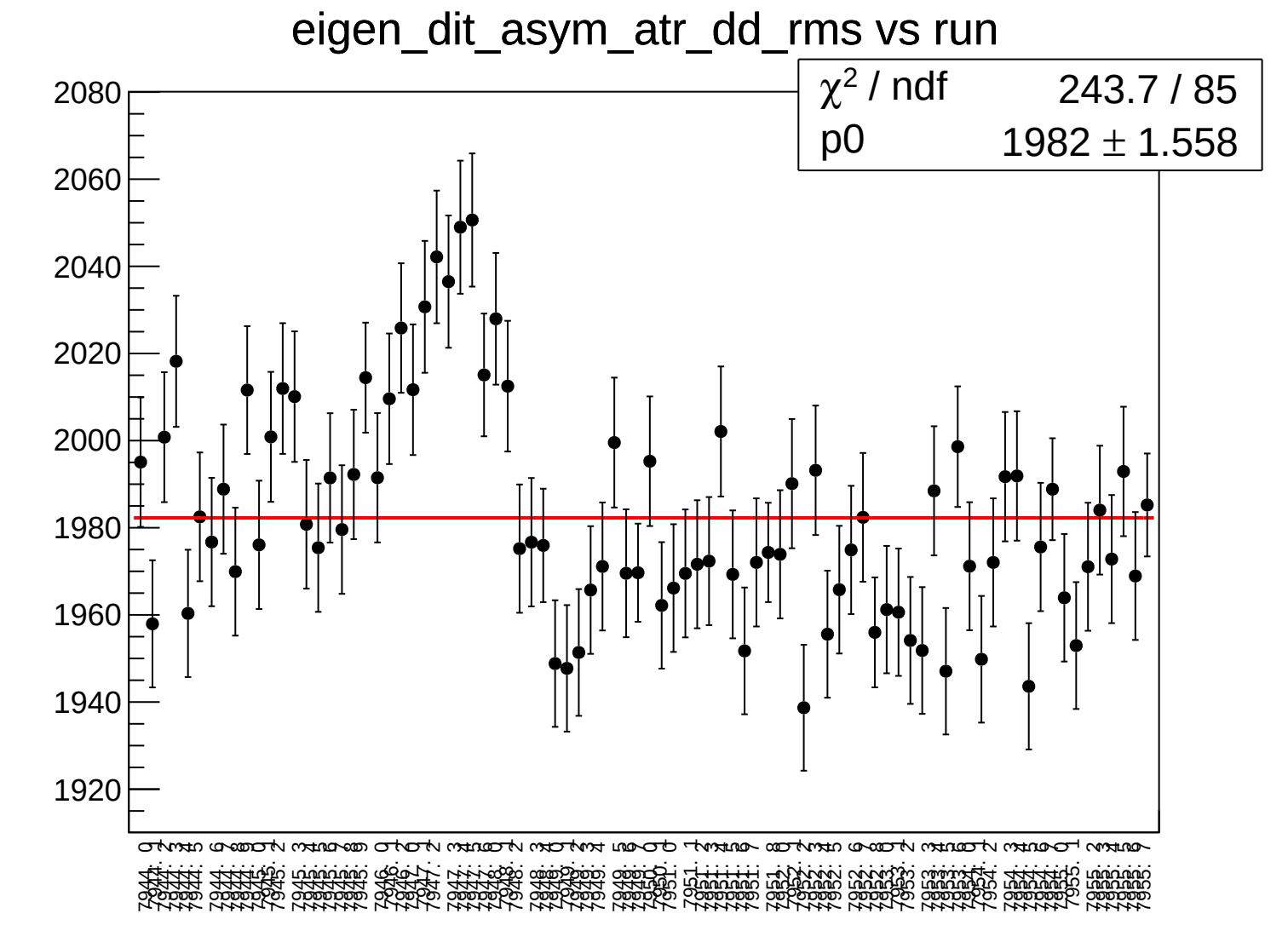

pull1D
Entries 86
Mean −0.005787
Std Dev 1.024

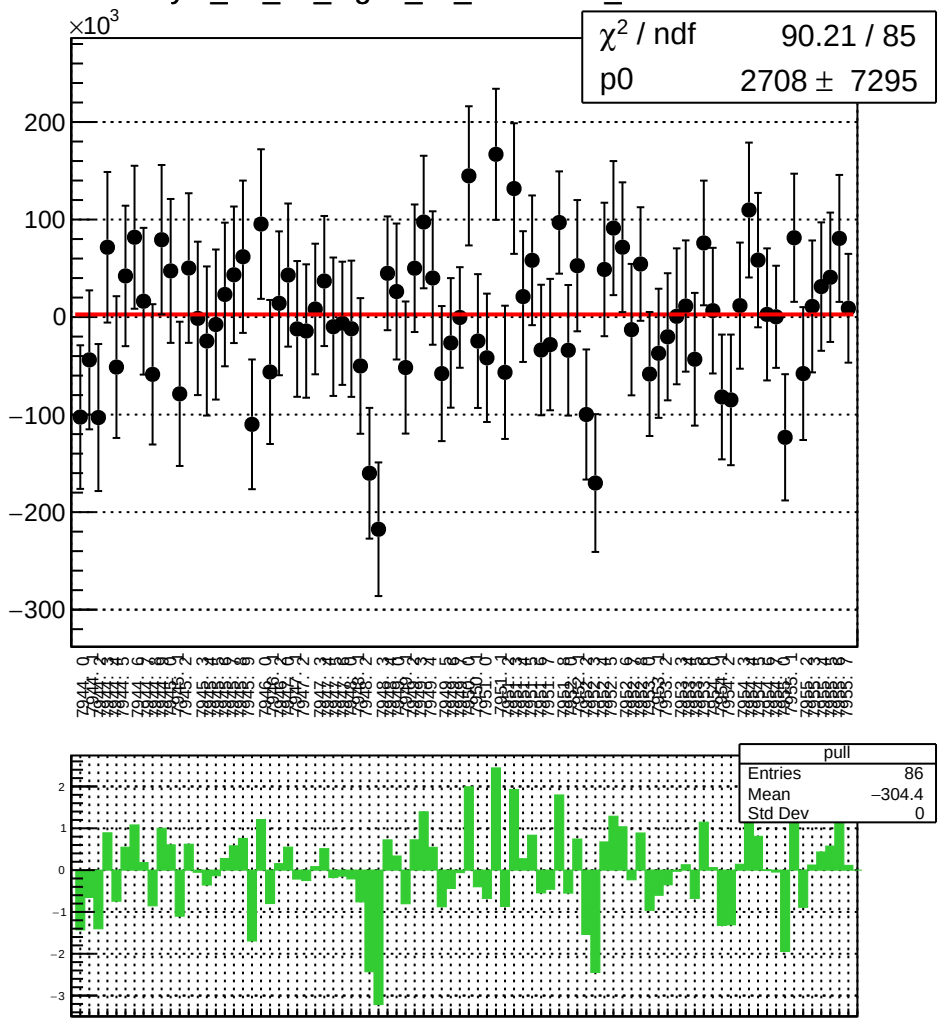
asym_atr_dd_dit_correction_rms vs run

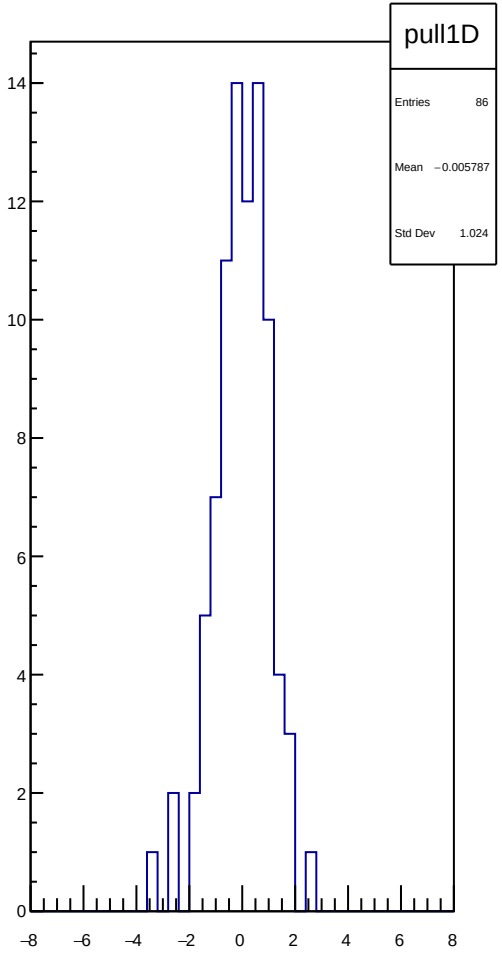


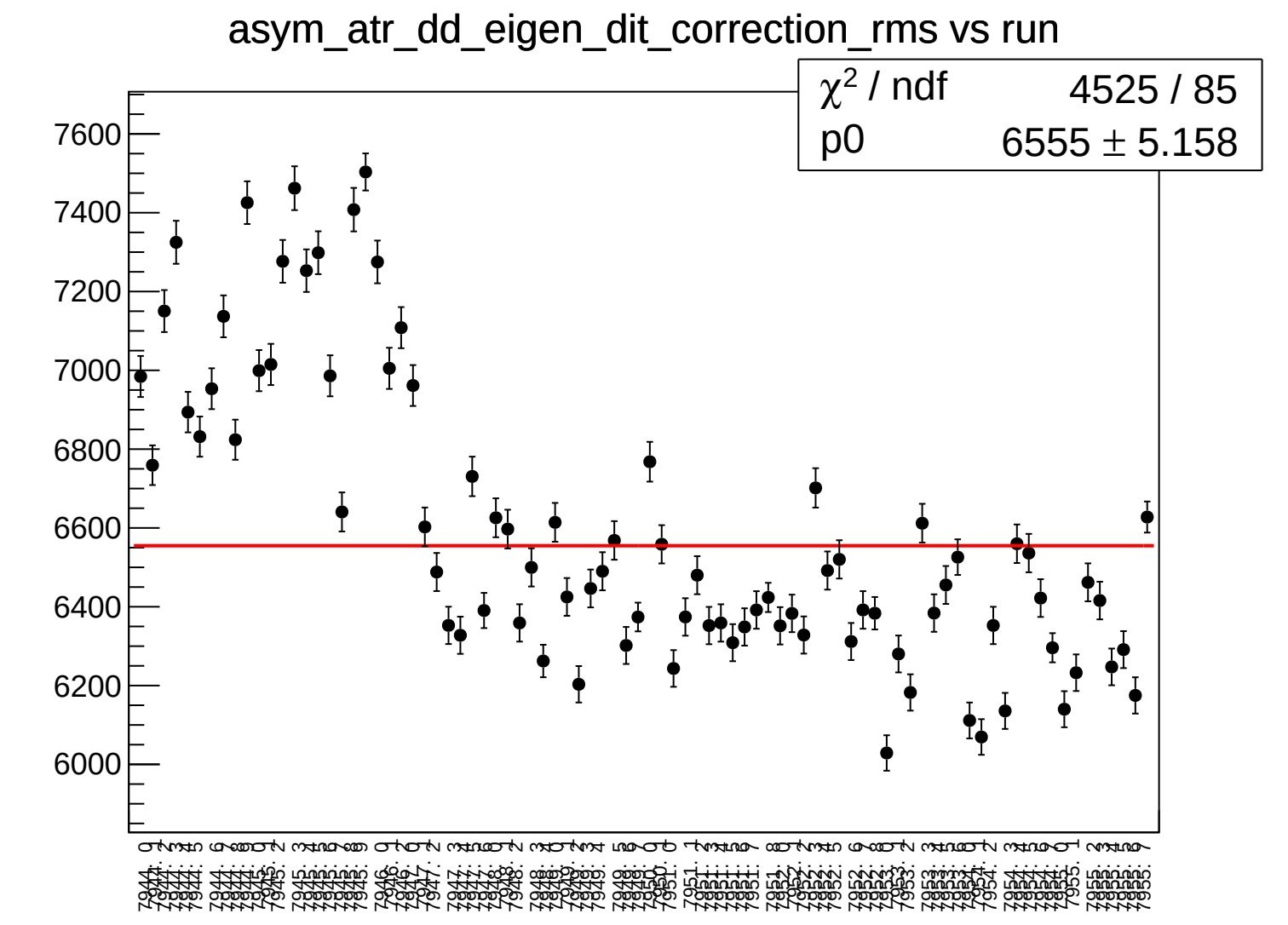

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 93.1 / 85
p0 −53.6 ± 2203
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 170.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

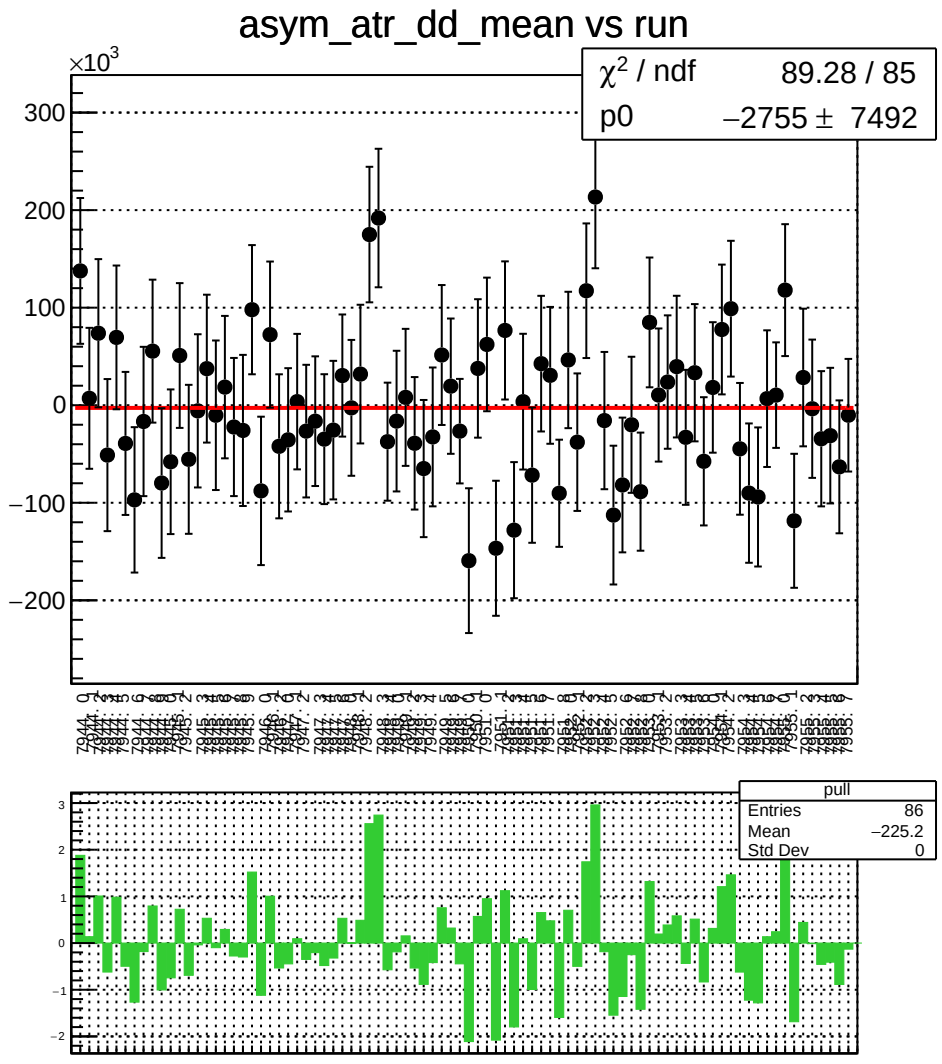

pull1D
Entries 86
Mean 0.004514
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

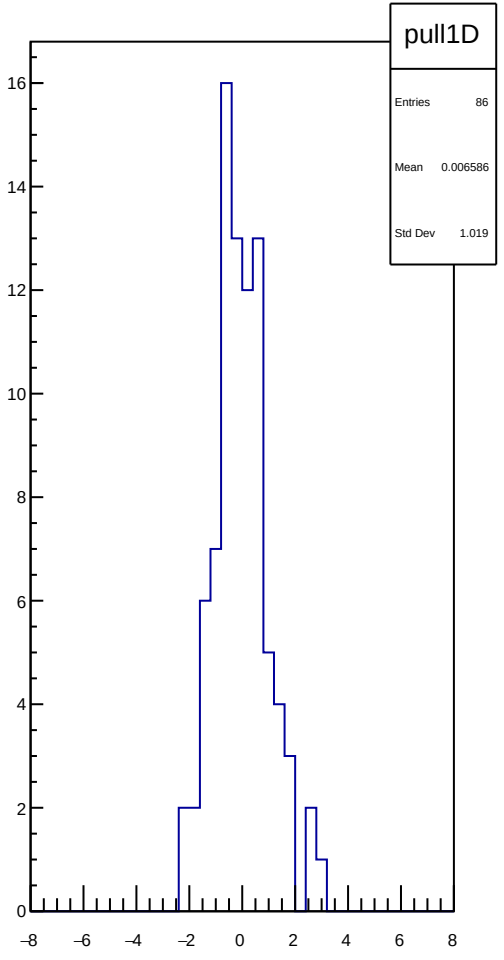

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 243.7 / 85
p0 1982 ± 1.558
2080
2060
2040
2020
2000
1980
1960
1940
1920

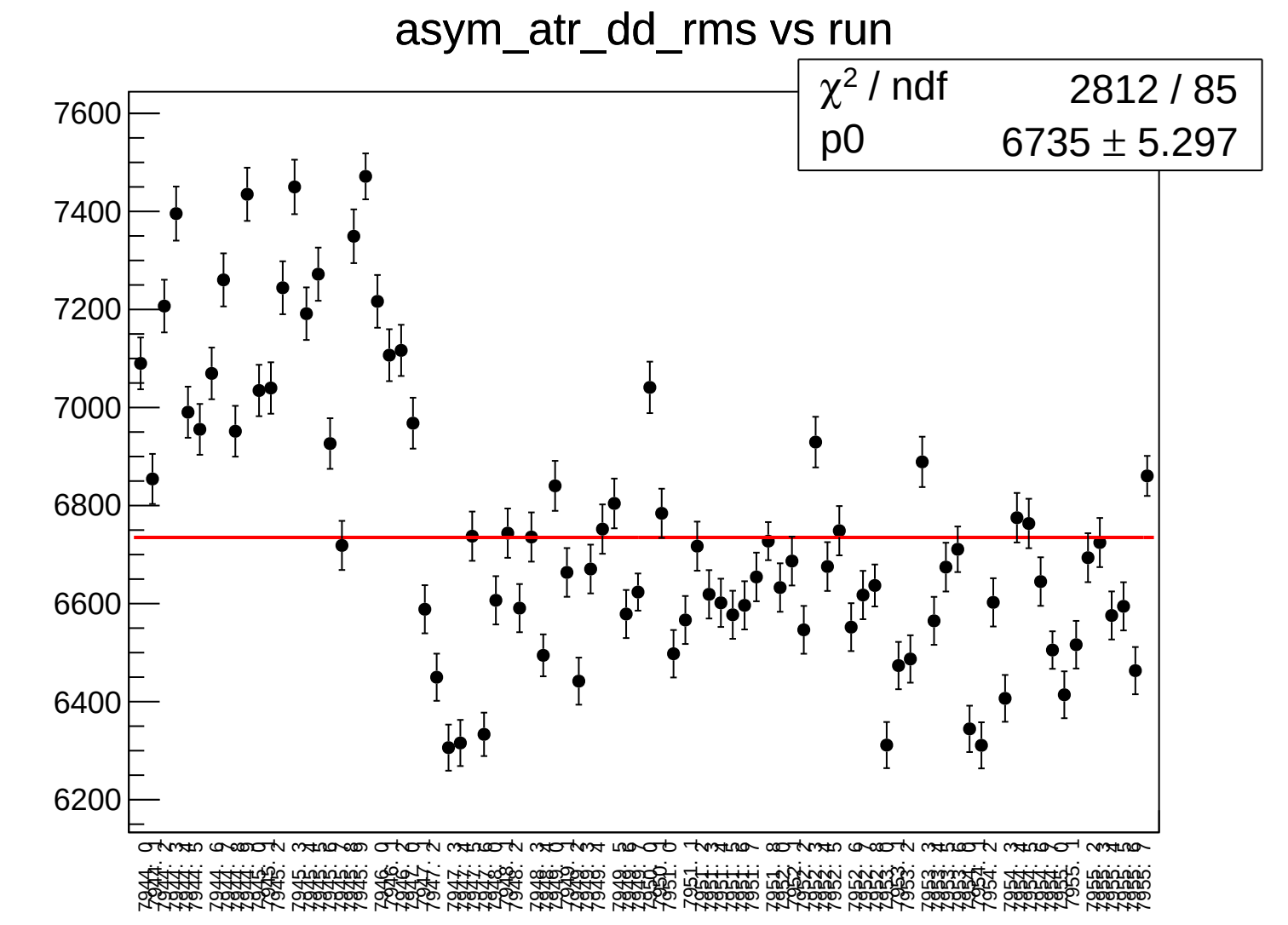

asym_atr_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.21 / 85
p0 2708 ± 7295
pull
Entries 86
Mean −304.4
Std Dev 0

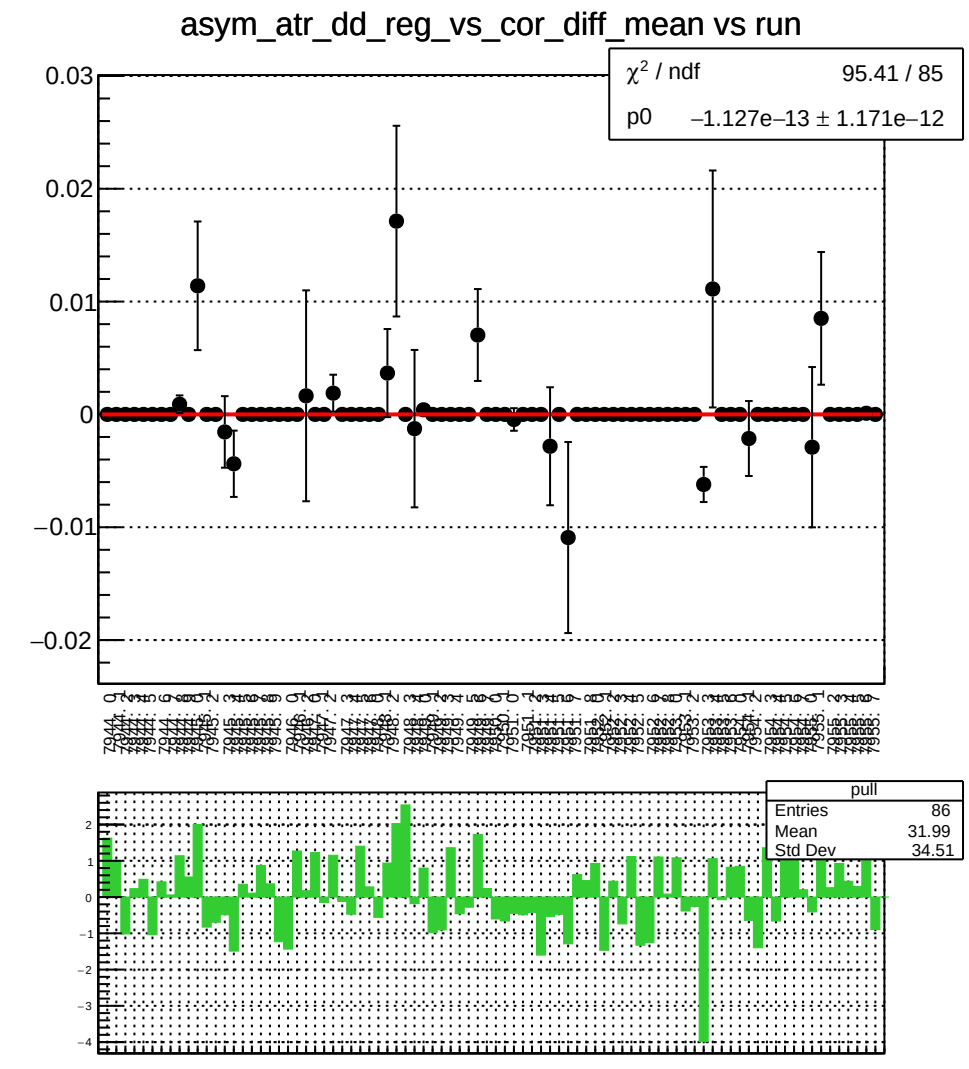

pull1D
Entries 86
Mean −0.005787
Std Dev 1.024

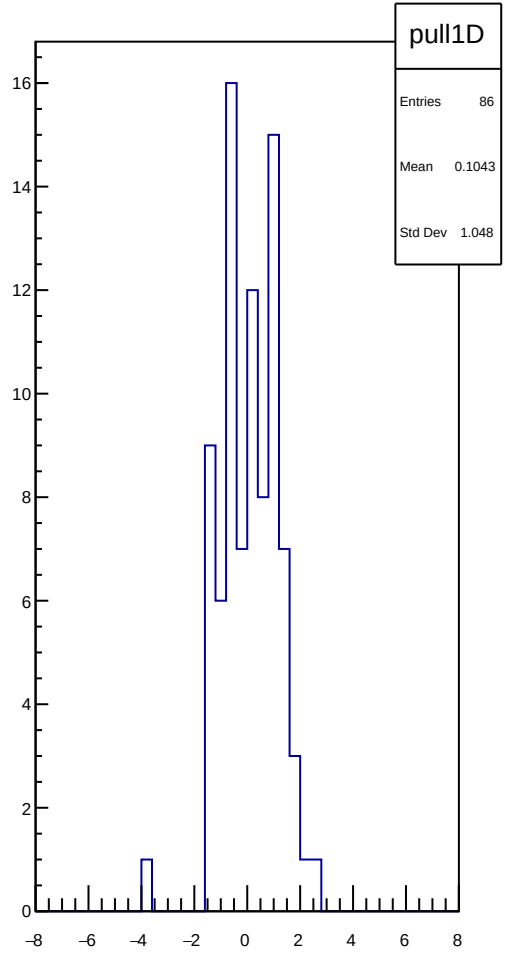

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 4525 / 85
p0 6555 ± 5.158
7600
7400
7200
7000
6800
6600
6400
6200
6000

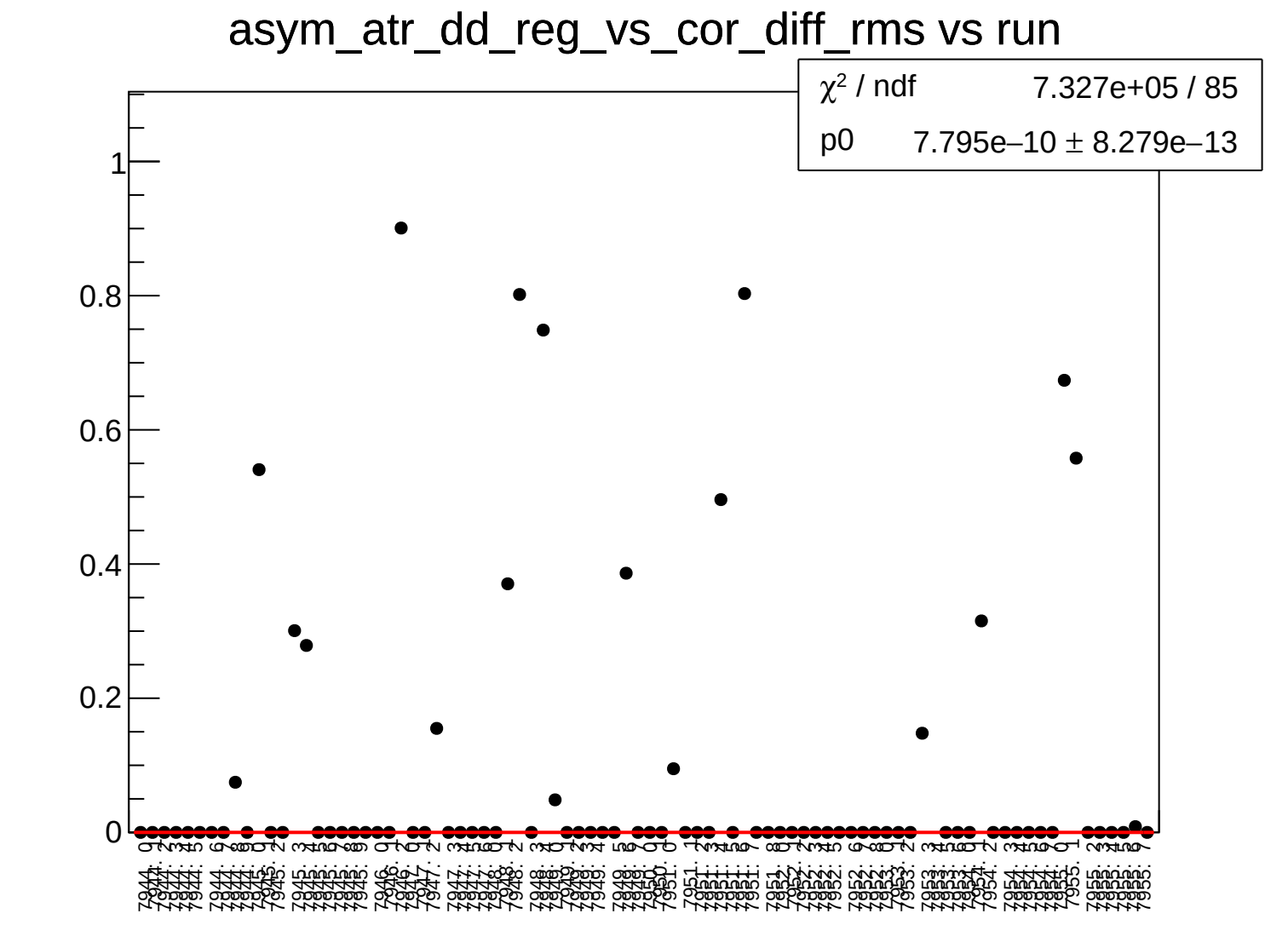

asym_atr_dd_mean vs run
×10^3
χ² / ndf 89.28 / 85
p0 −2755 ± 7492
300
200
100
0
−100
−200
pull
Entries 86
Mean −225.2
Std Dev 0
3
2
1
0
−1
−2

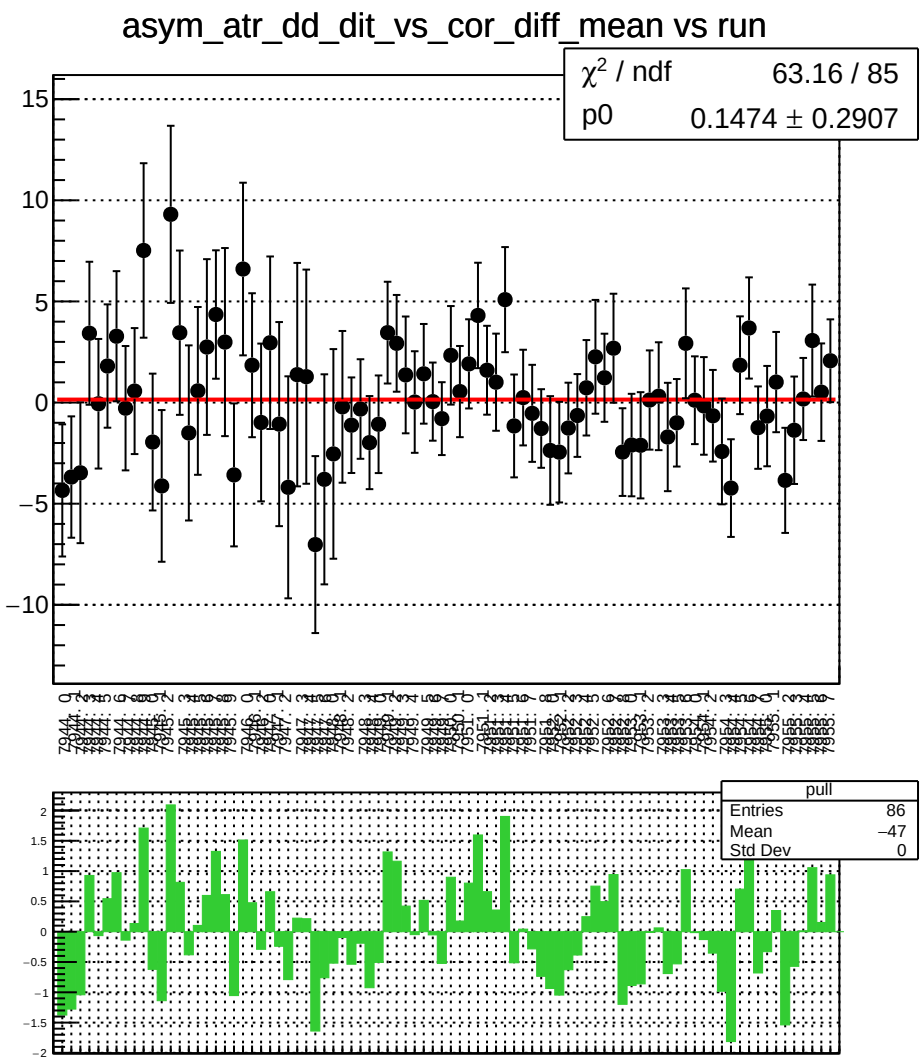

pull1D
Entries 86
Mean 0.006586
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

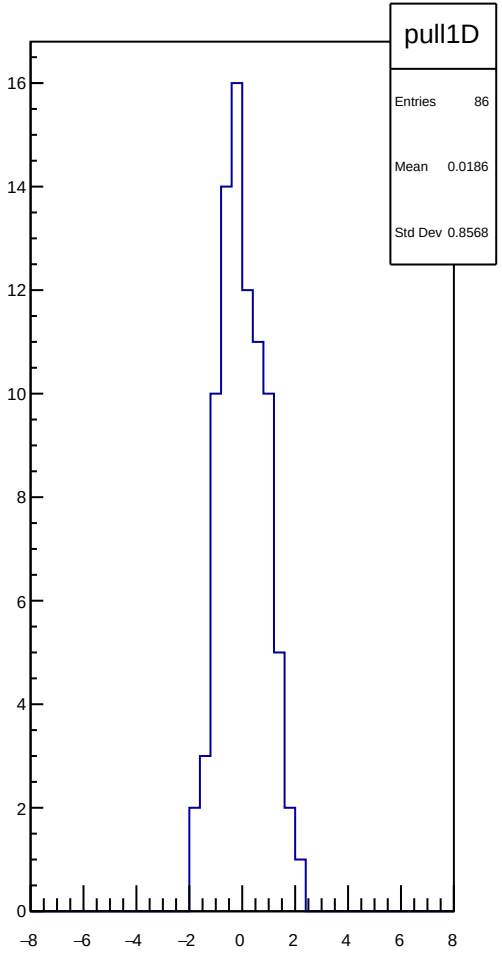

asym_atr_dd_rms vs run
χ^2 / ndf 2812 / 85
p0 6735 ± 5.297
7600
7400
7200
7000
6800
6600
6400
6200

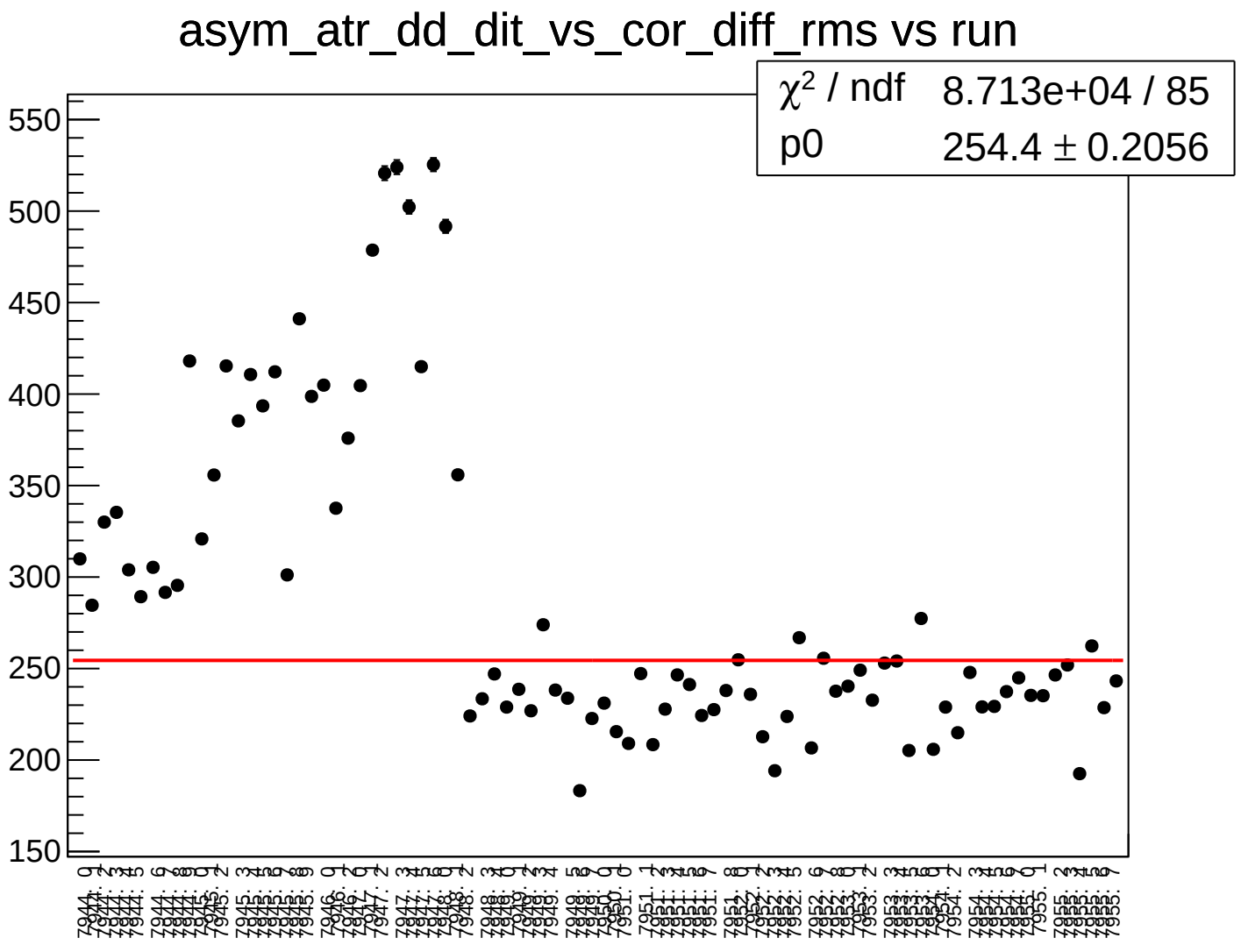

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.41 / 85
p0 −1.127e−13 ± 1.171e−12
pull
Entries 86
Mean 31.99
Std Dev 34.51

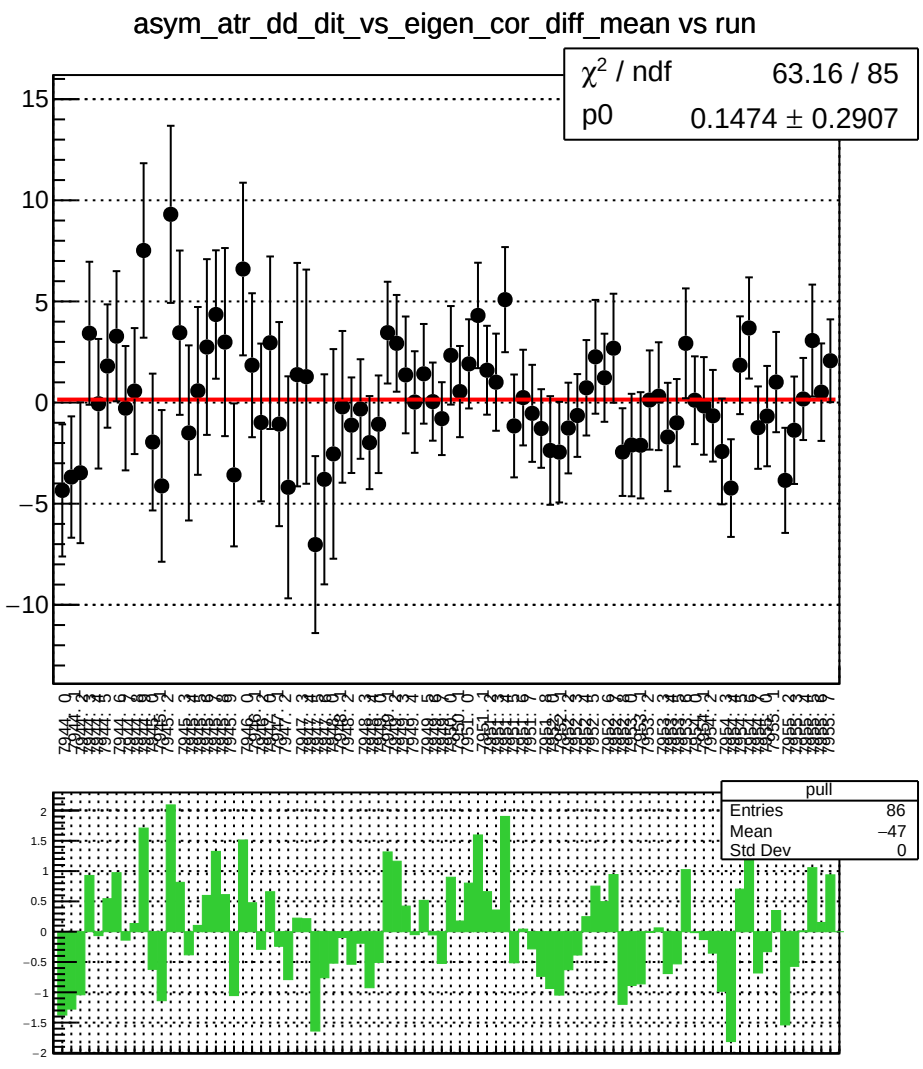

pull1D
Entries 86
Mean 0.1043
Std Dev 1.048

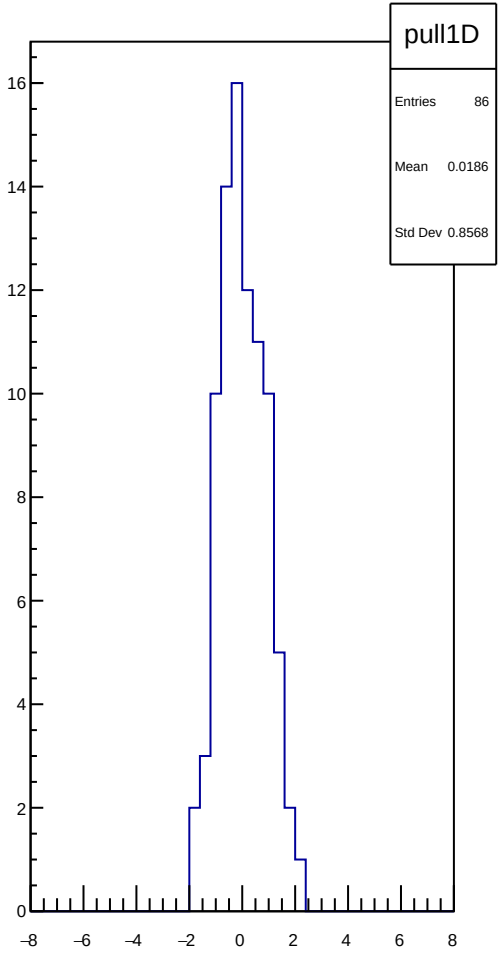

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.327e+05 / 85
p0 7.795e−10 ± 8.279e−13
1
0.8
0.6
0.4
0.2
0

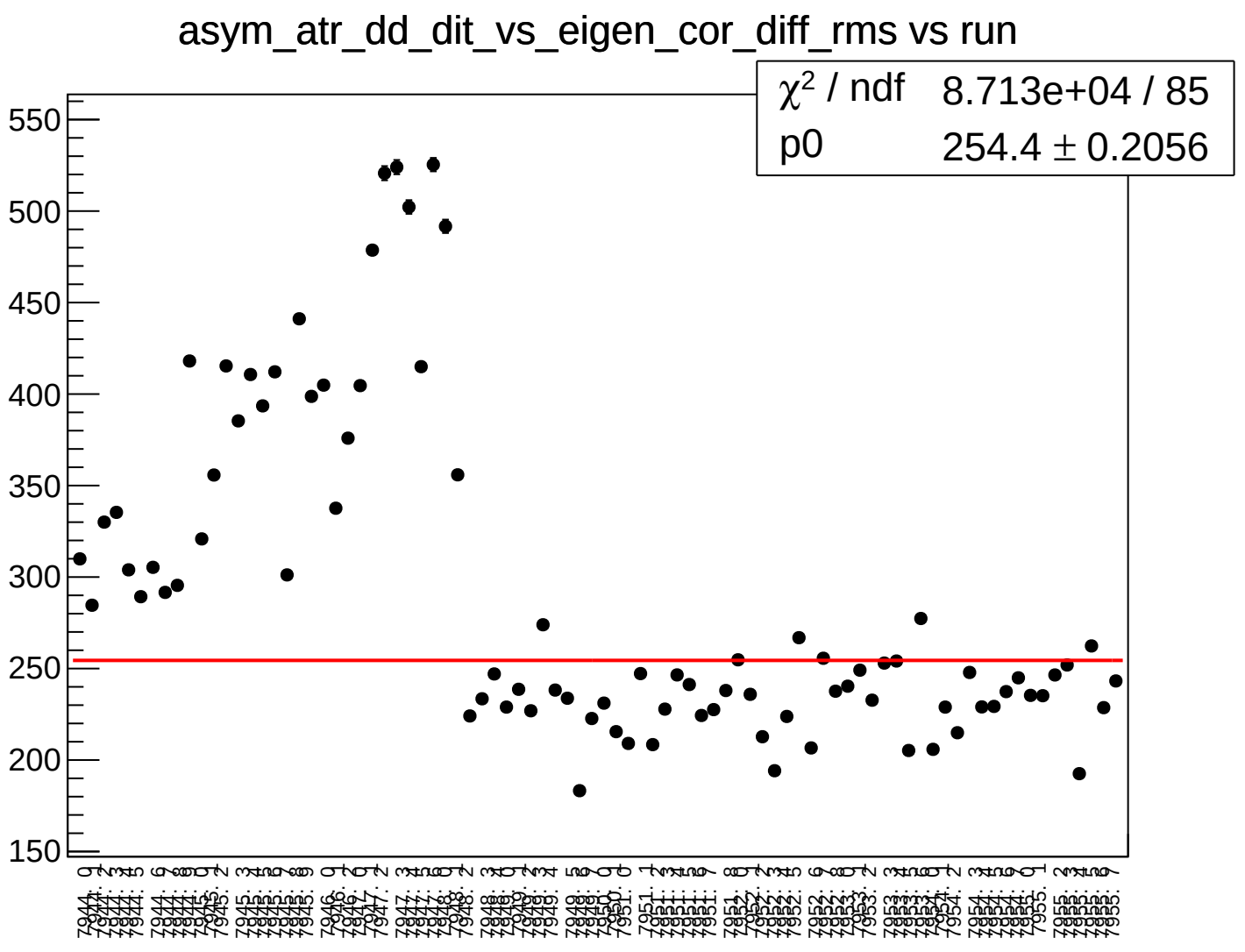

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 63.16 / 85
p0 0.1474 ± 0.2907
pull
Entries 86
Mean −47
Std Dev 0

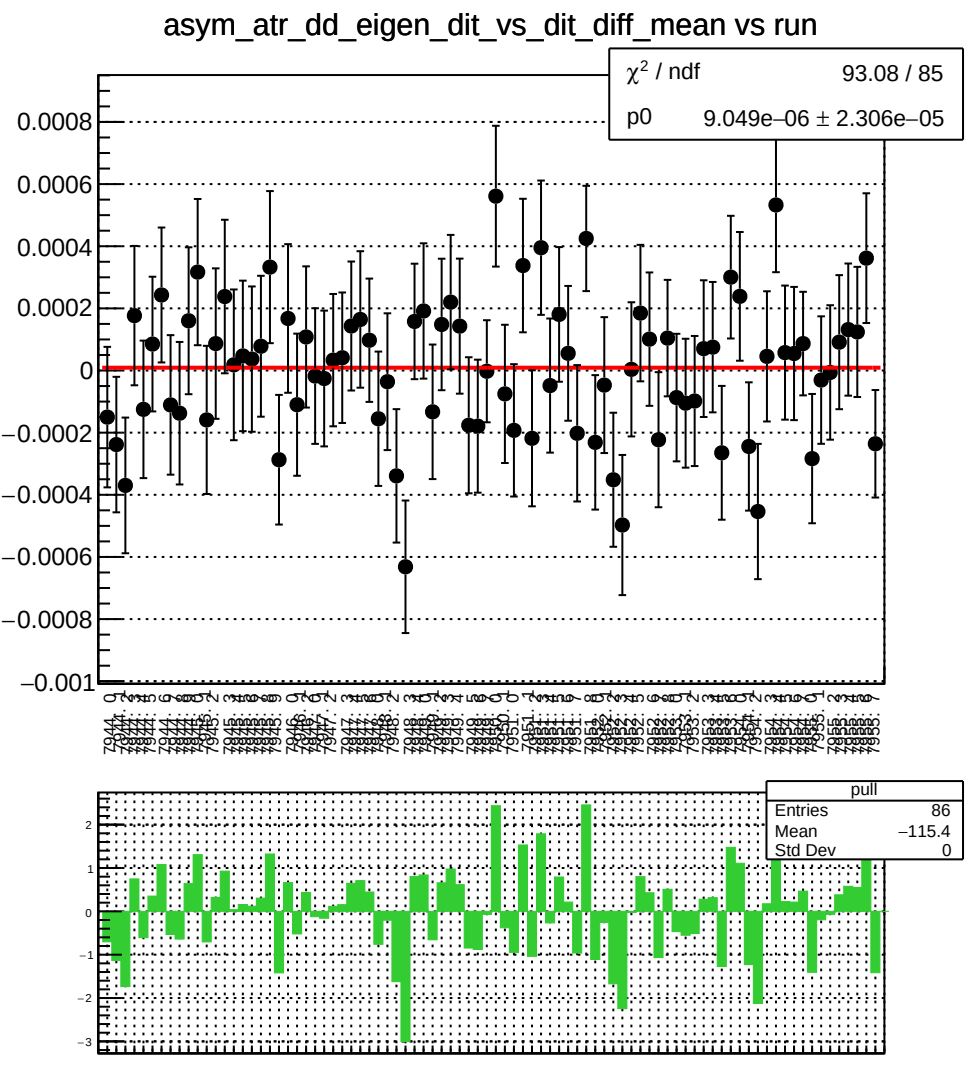

pull1D
Entries 86
Mean 0.0186
Std Dev 0.8568

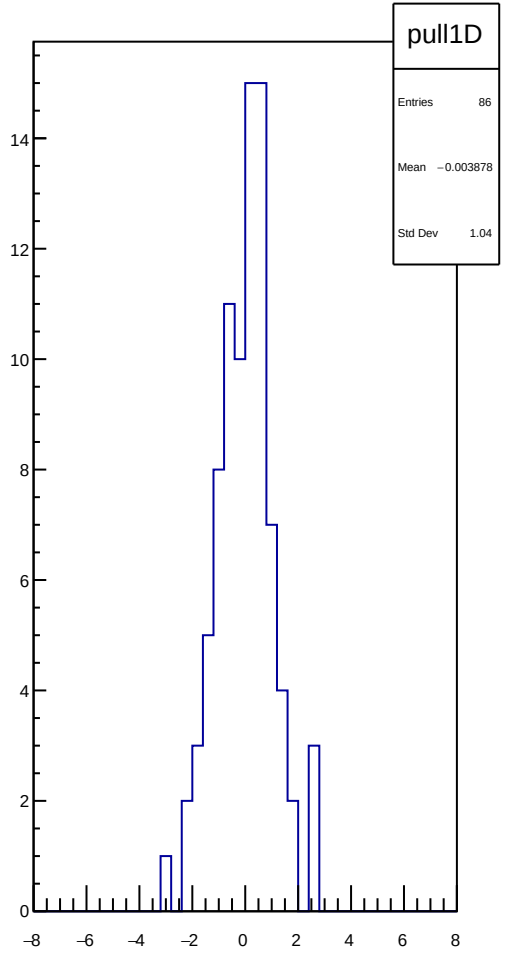

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.713e+04 / 85
p0 254.4 ± 0.2056
550
500
450
400
350
300
250
200
150

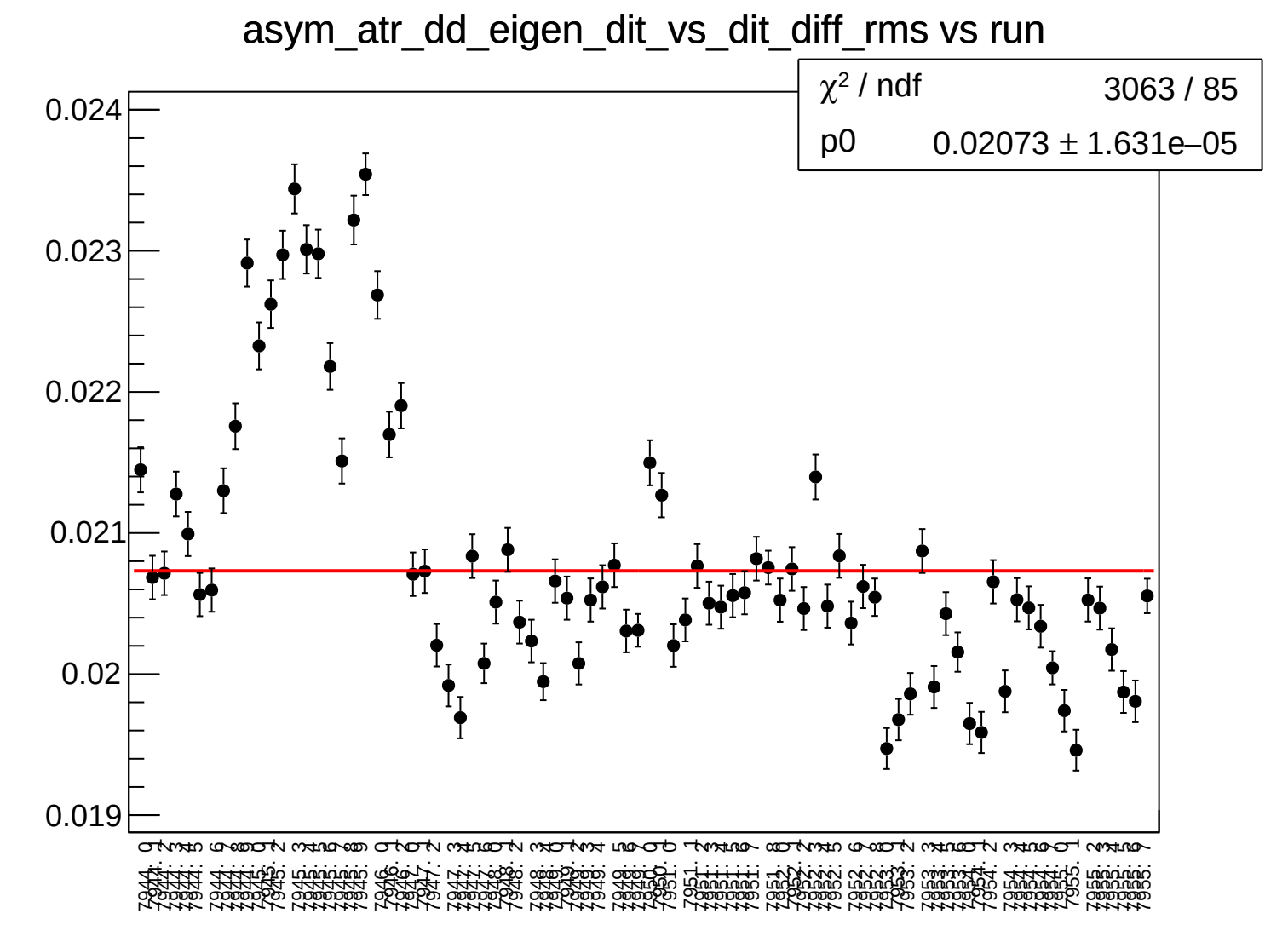

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.16 / 85
p0 0.1474 ± 0.2907
pull
Entries 86
Mean −47
Std Dev 0

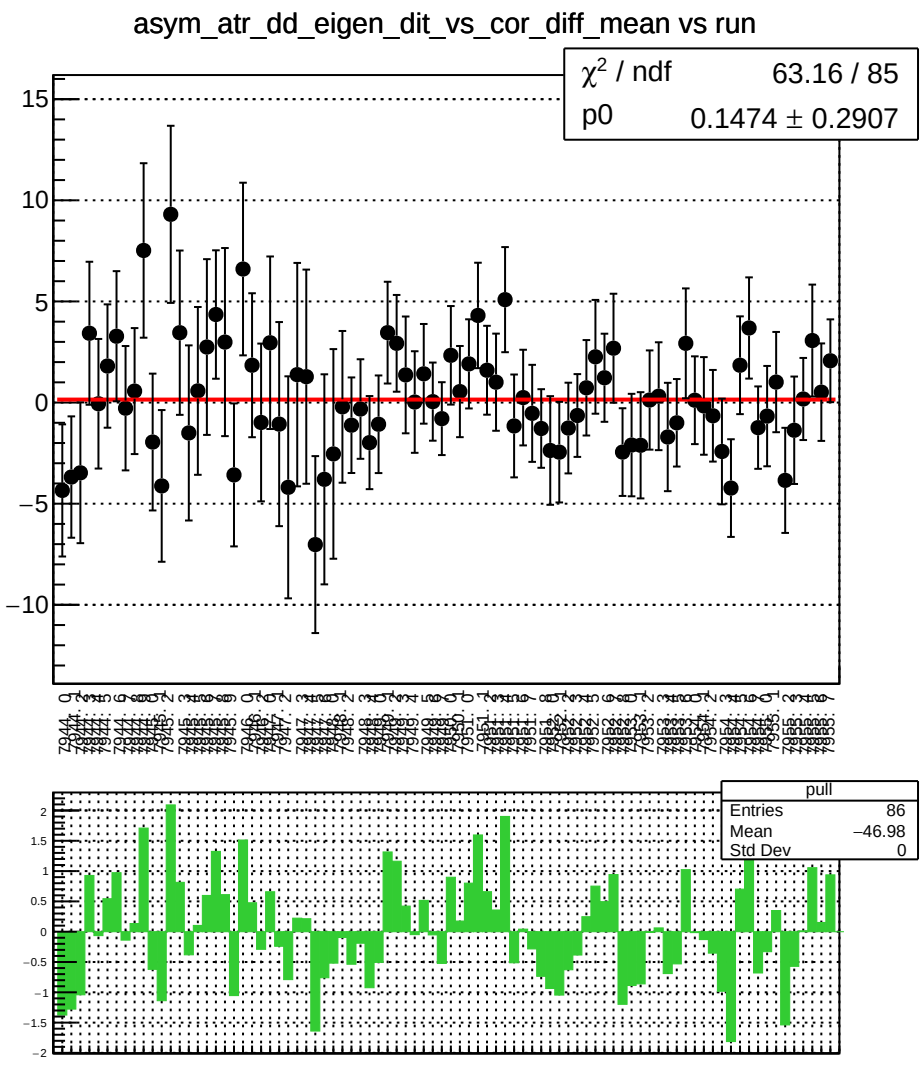

pull1D
Entries 86
Mean 0.0186
Std Dev 0.8568

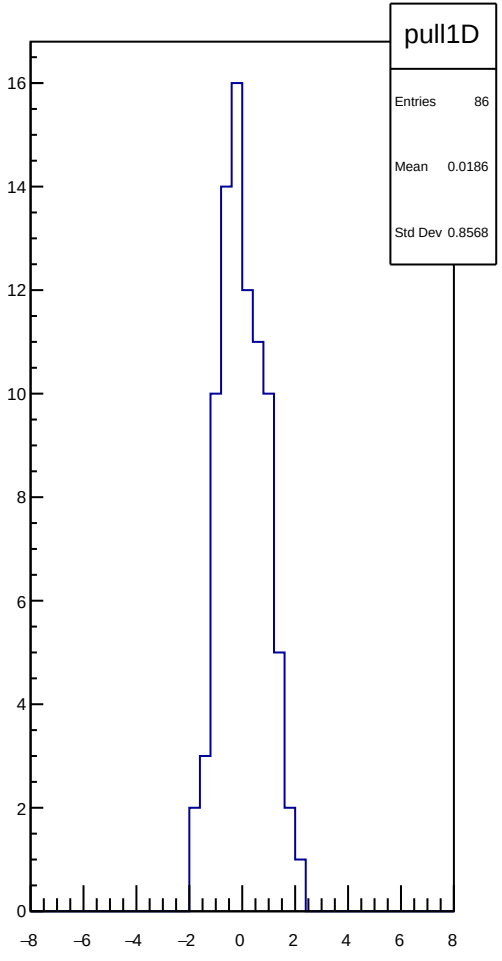

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.713e+04 / 85
p0 254.4 ± 0.2056
550
500
450
400
350
300
250
200
150

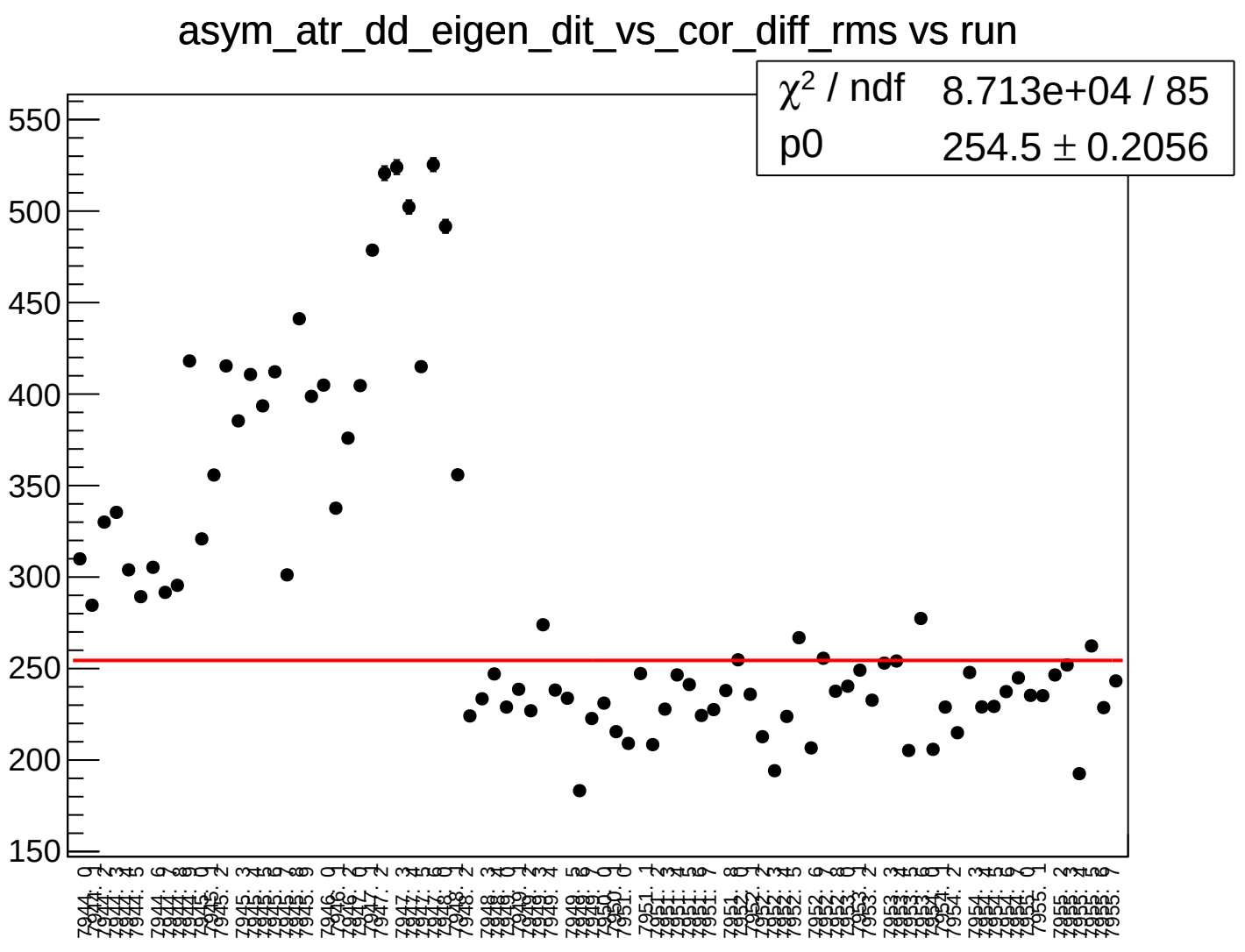

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 93.08 / 85
p0 9.049e−06 ± 2.306e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 86
Mean −115.4
Std Dev 0
2
1
0
−1
−2
−3

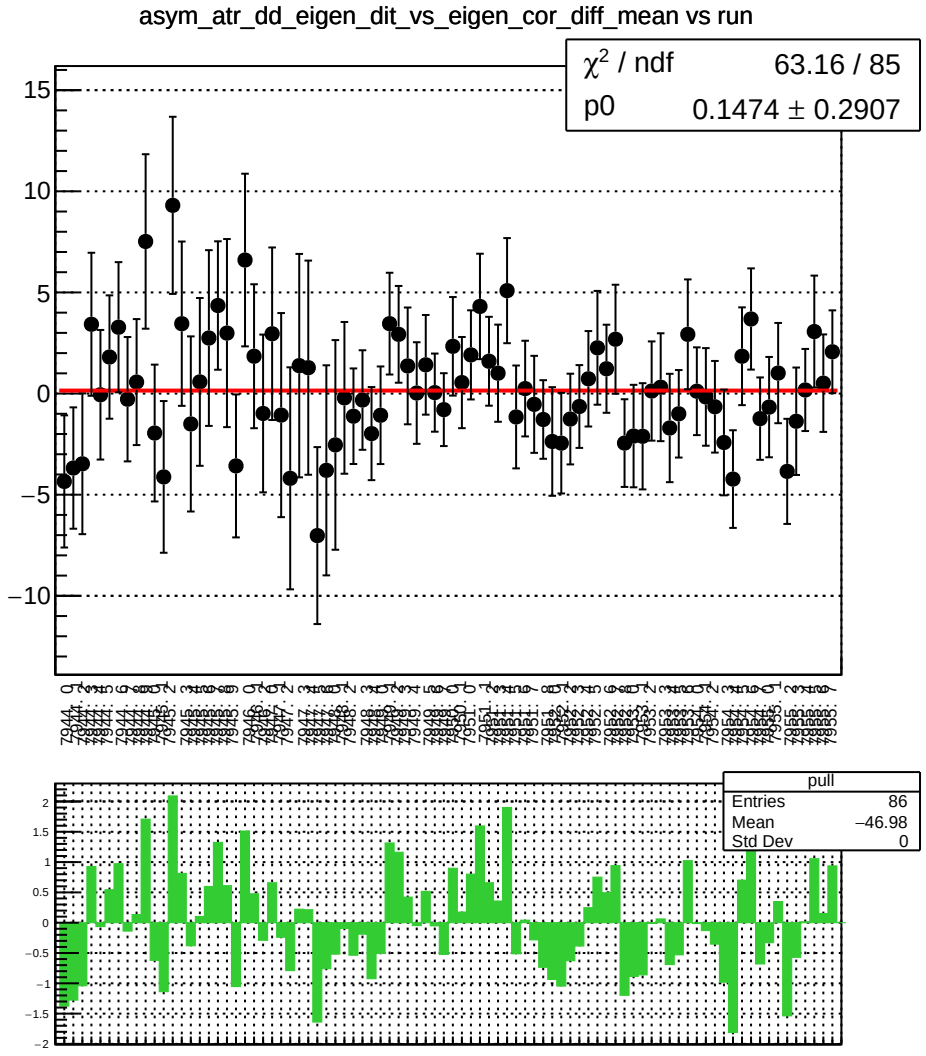

pull1D
Entries 86
Mean −0.003878
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

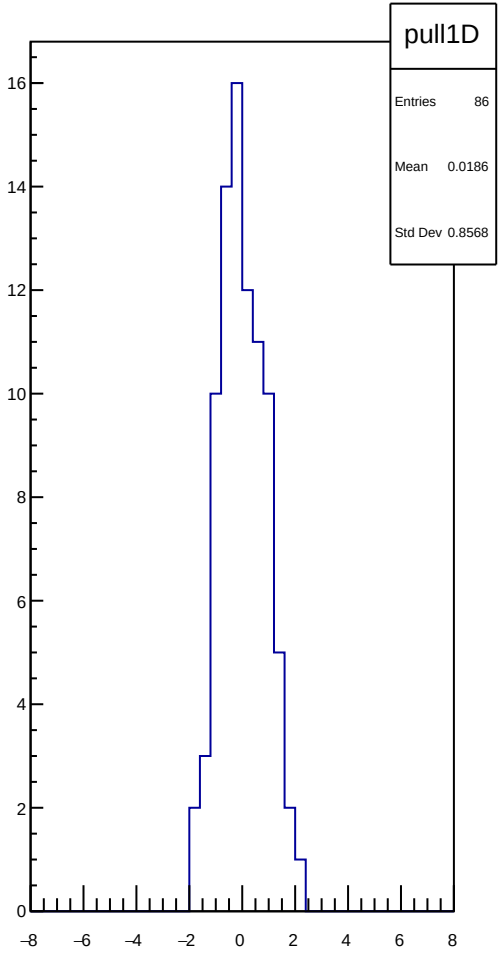

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3063 / 85
p0 0.02073 ± 1.631e–05
0.024
0.023
0.022
0.021
0.02
0.019

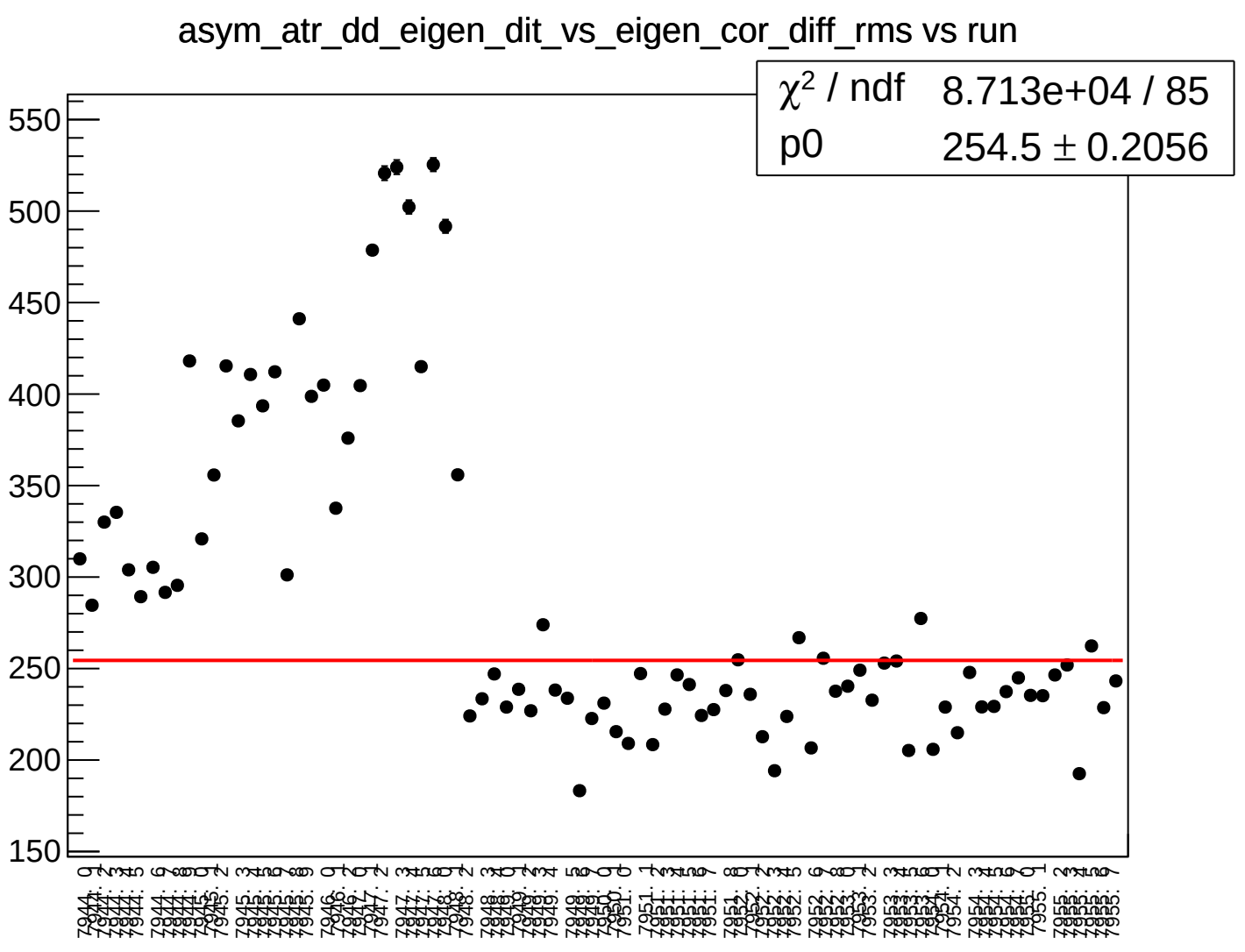

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.16 / 85
p0 0.1474 ± 0.2907
pull
Entries 86
Mean −46.98
Std Dev 0

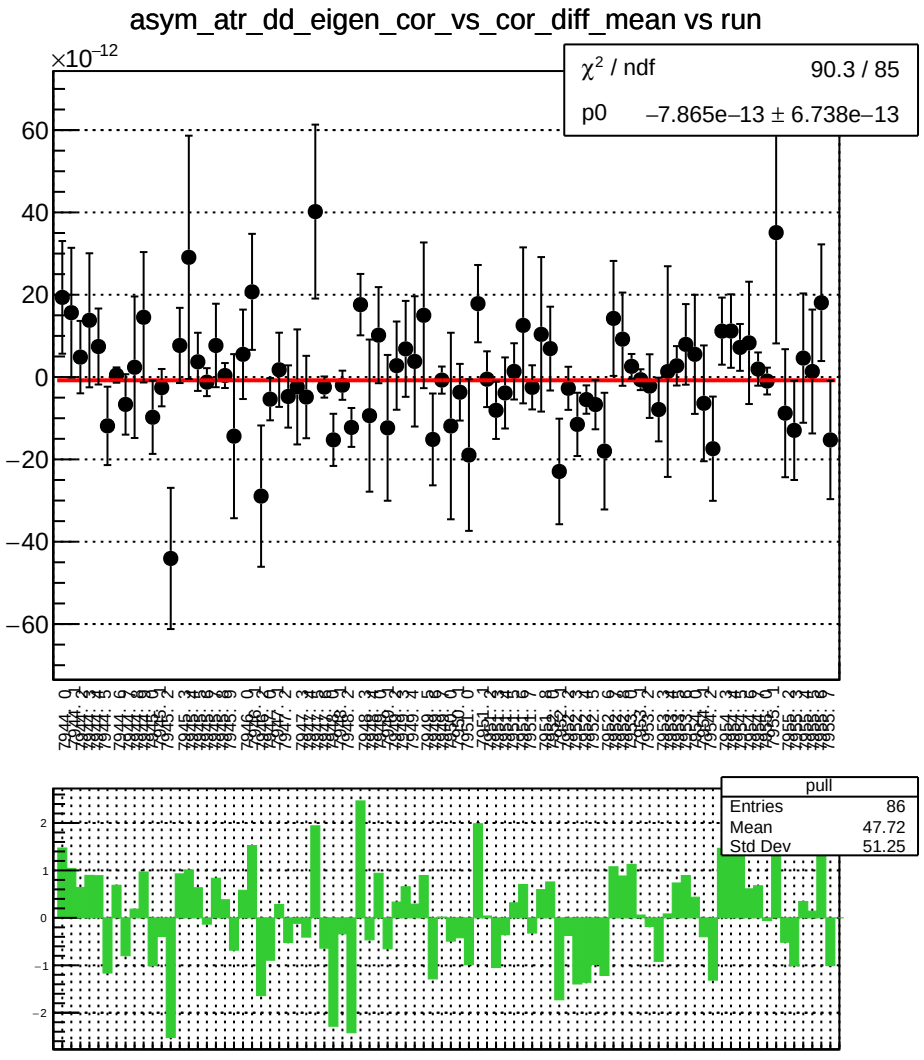

pull1D
Entries 86
Mean 0.0186
Std Dev 0.8568

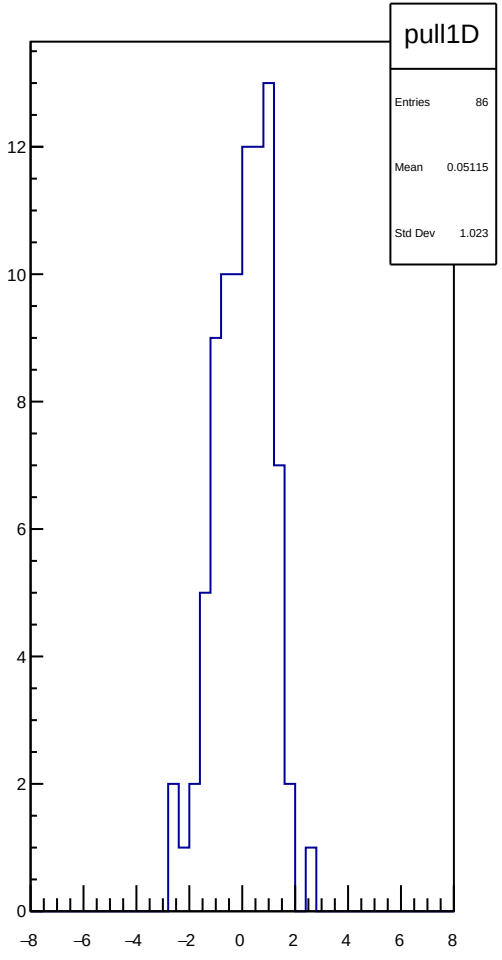

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.713e+04 / 85
p0 254.5 ± 0.2056
550
500
450
400
350
300
250
200
150

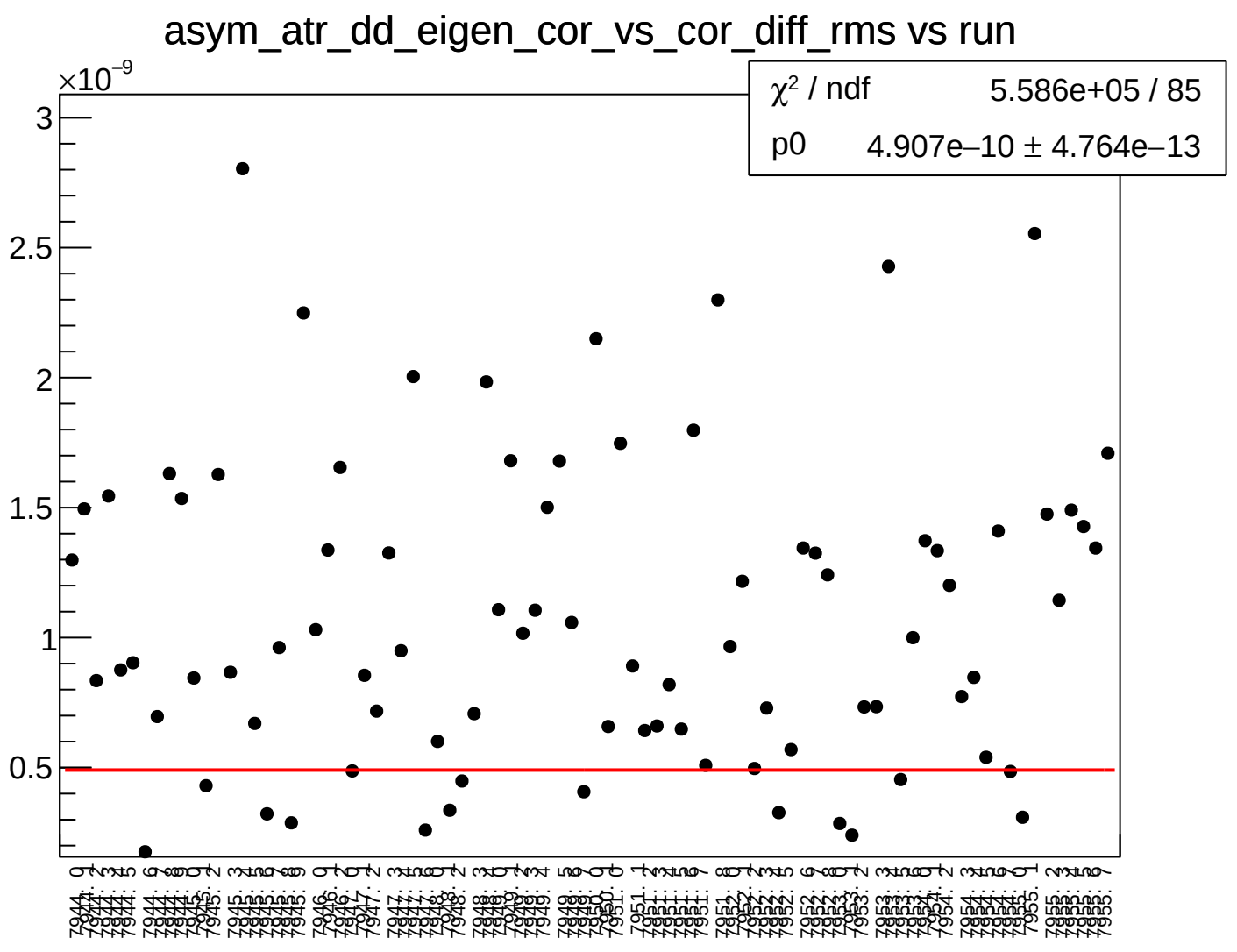

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.16 / 85
p0 0.1474 ± 0.2907
pull
Entries 86
Mean −46.98
Std Dev 0

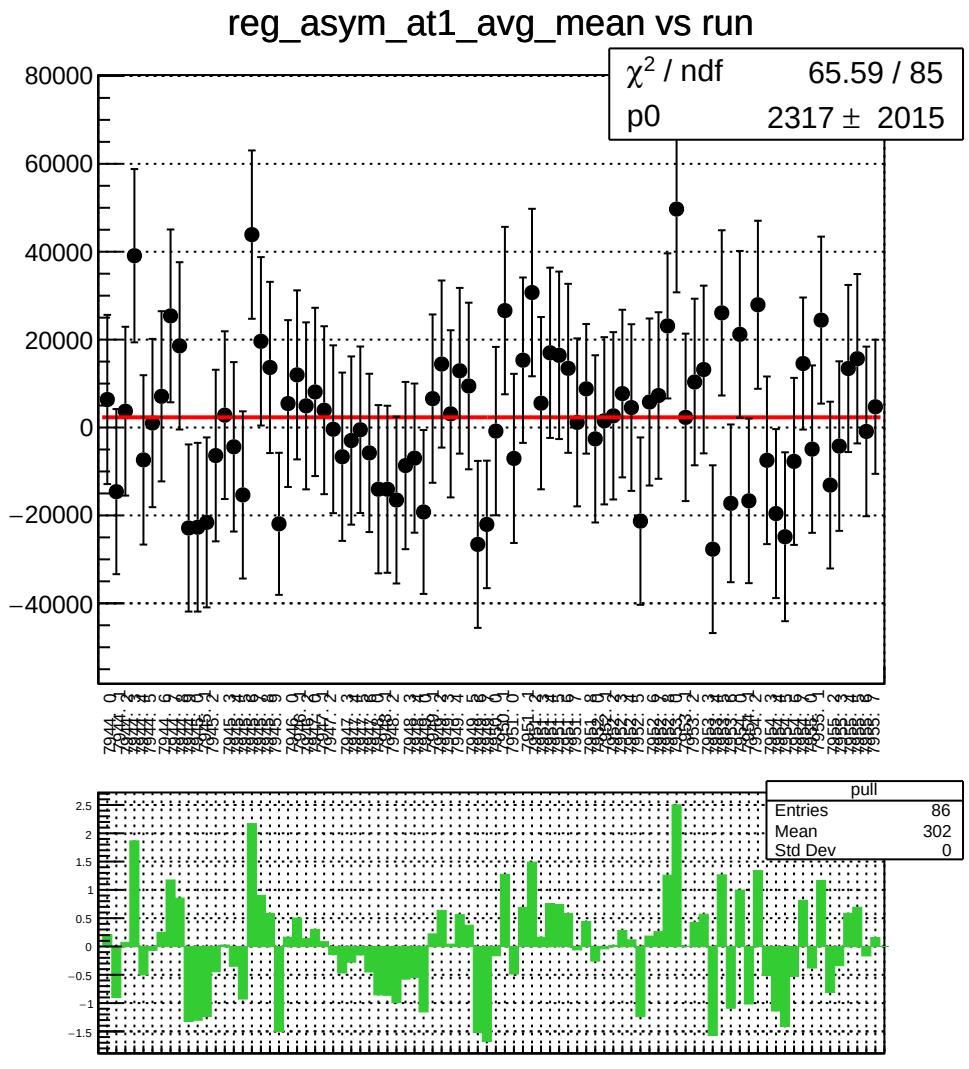

pull1D
Entries 86
Mean 0.0186
Std Dev 0.8568

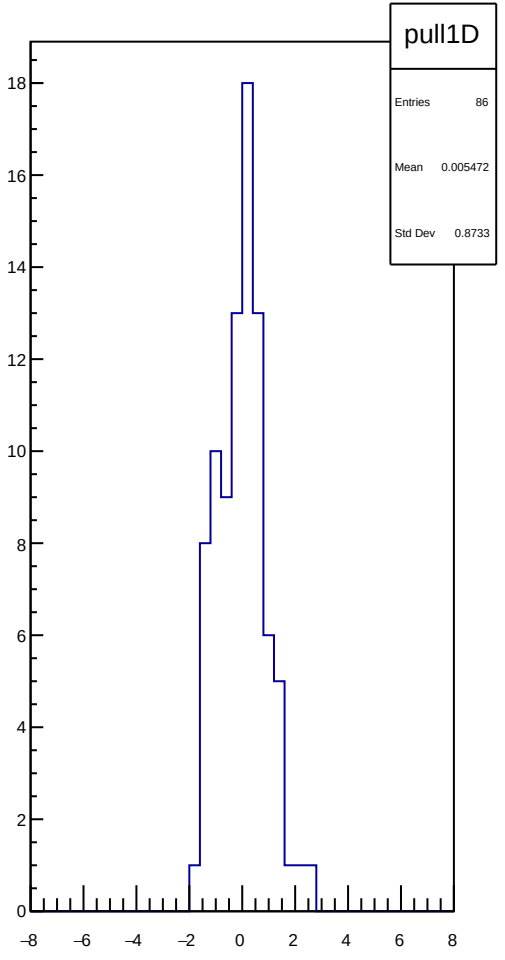

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.713e+04 / 85
p0 254.5 ± 0.2056
550
500
450
400
350
300
250
200
150

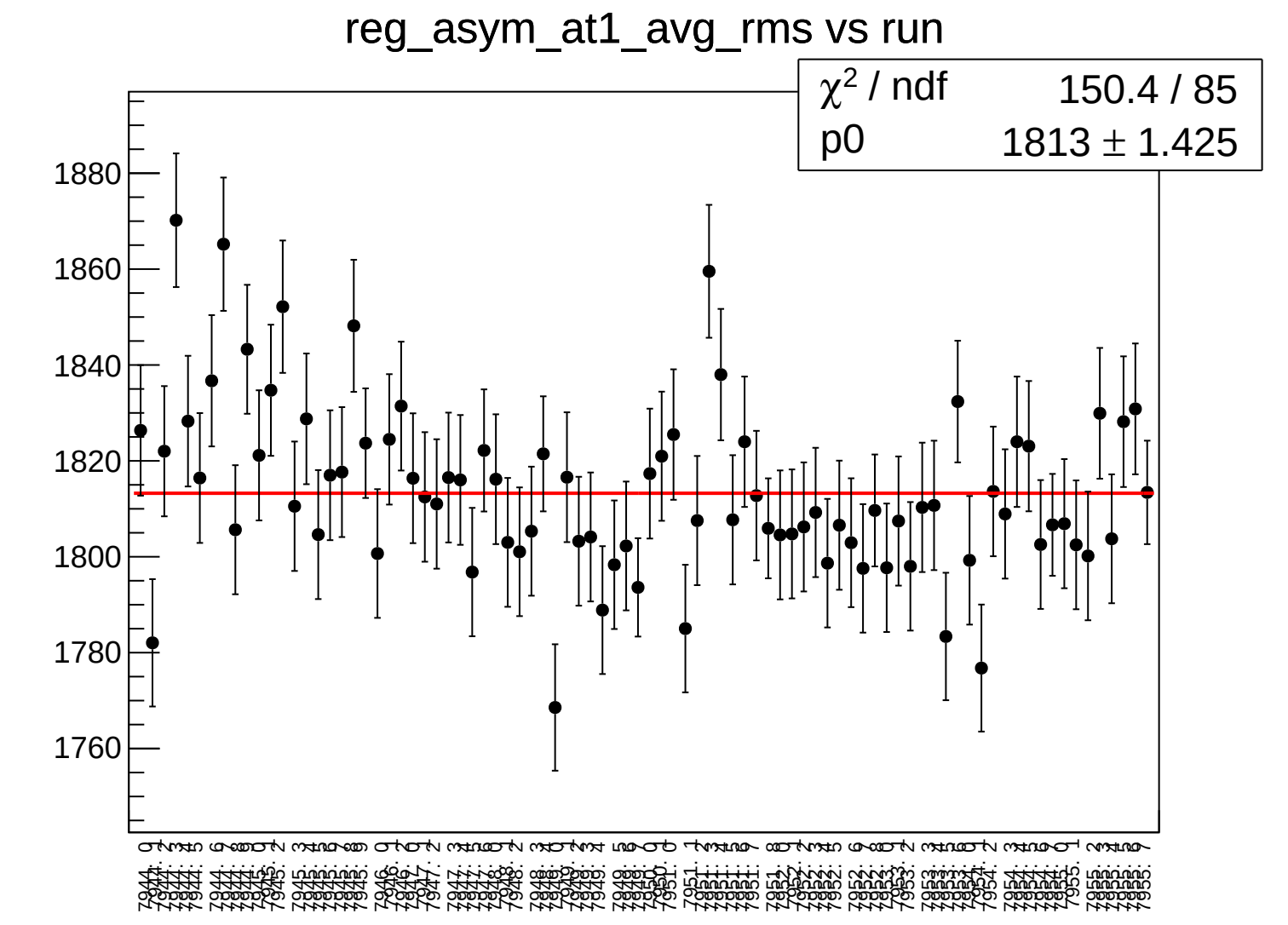

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.3 / 85
p0 −7.865e−13 ± 6.738e−13
pull
Entries 86
Mean 47.72
Std Dev 51.25

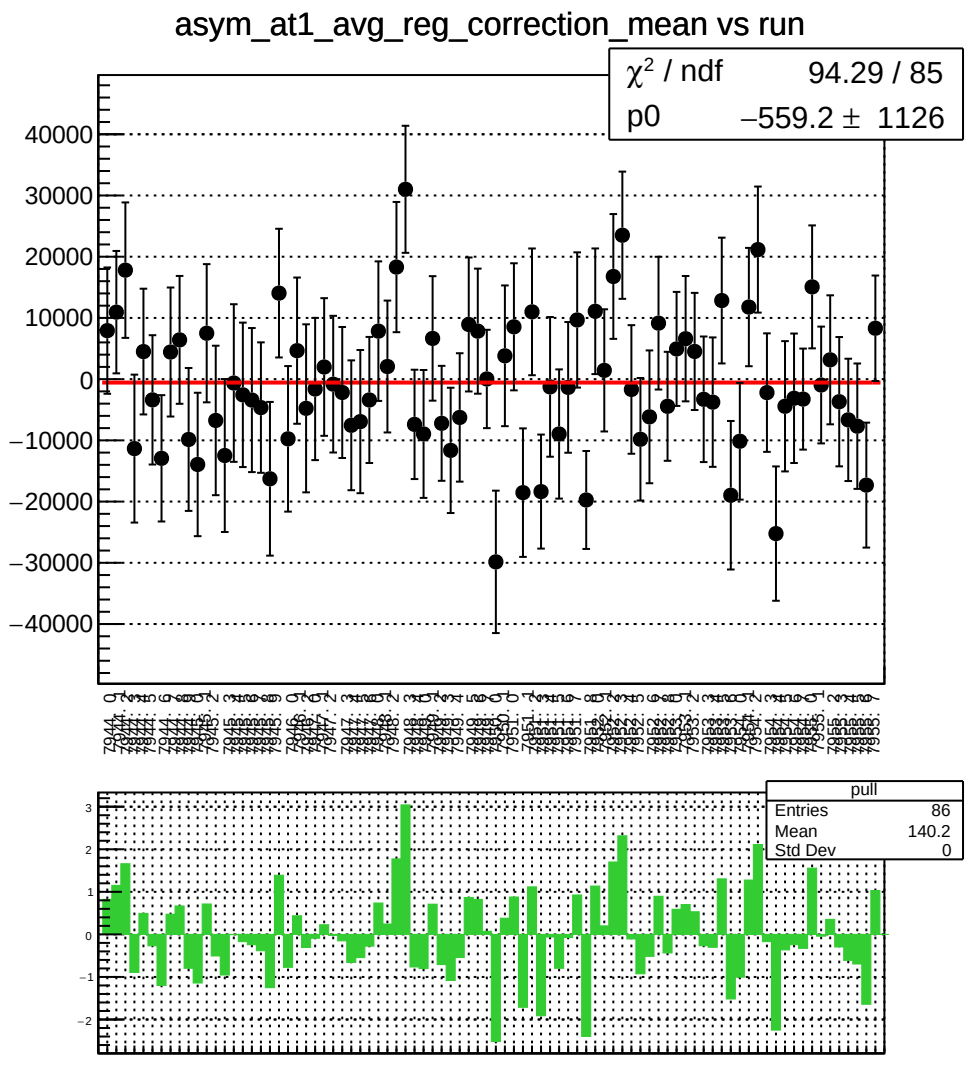

pull1D
Entries 86
Mean 0.05115
Std Dev 1.023

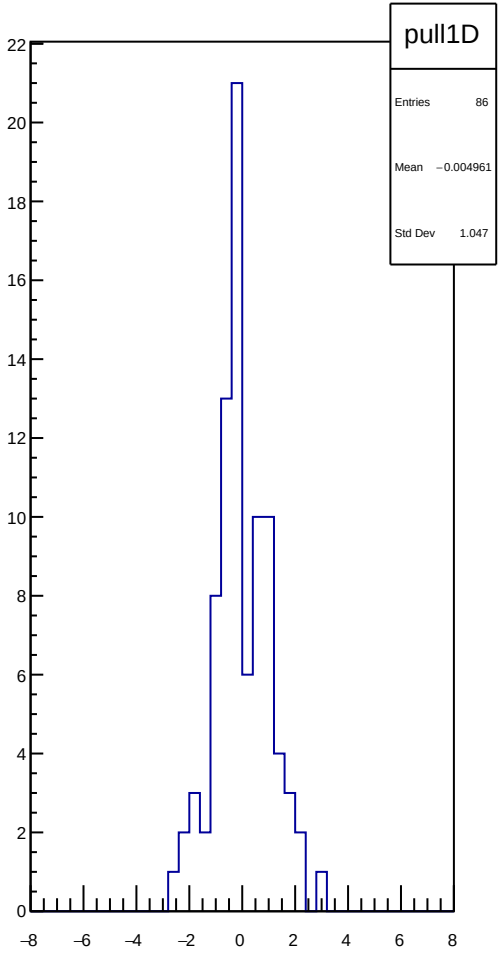

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.586e+05 / 85
p0 4.907e−10 ± 4.764e−13
3
2.5
2
1.5
1
0.5

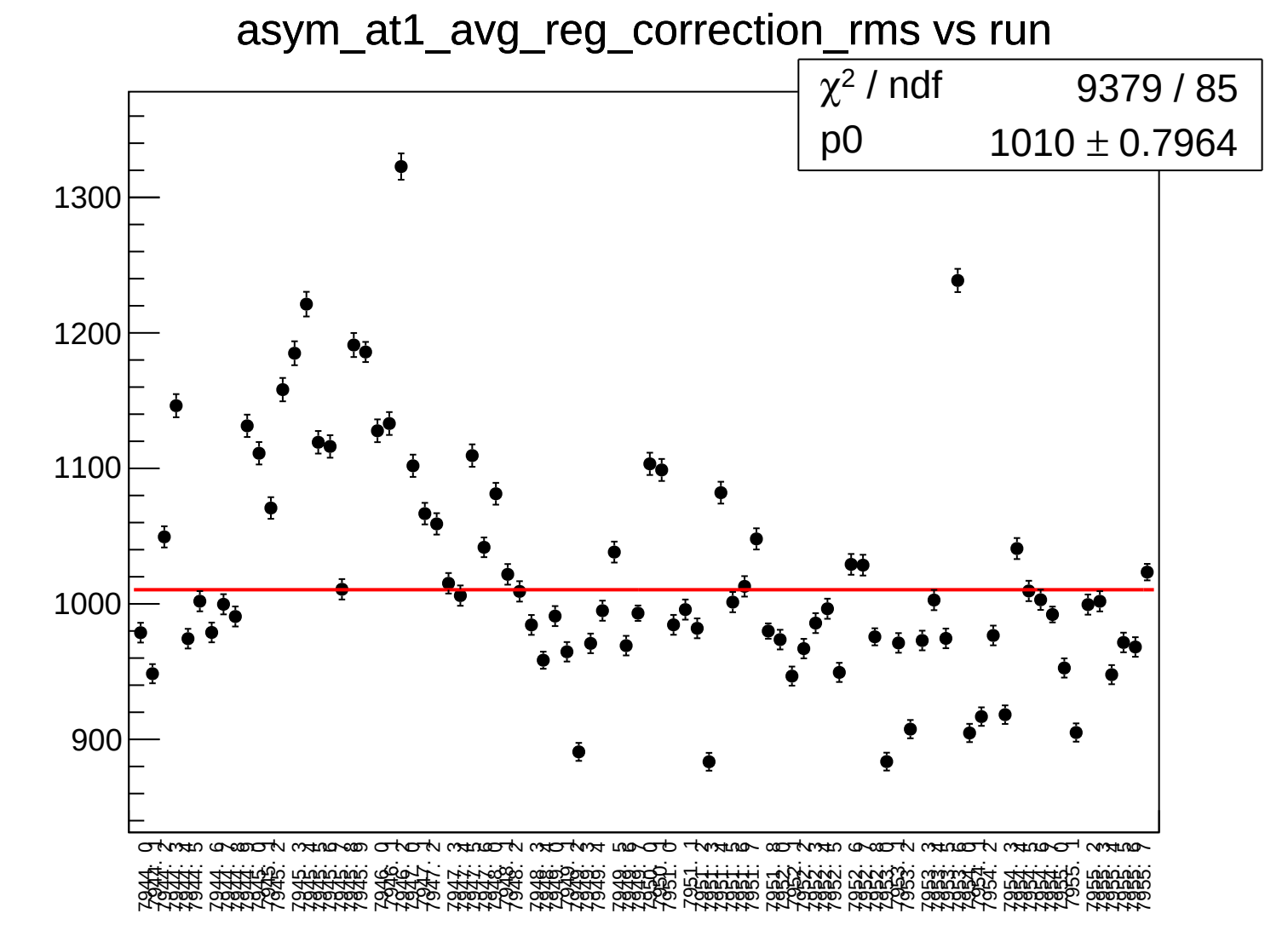

reg_asym_at1_avg_mean vs run
χ² / ndf 65.59 / 85
p0 2317 ± 2015
pull
Entries 86
Mean 302
Std Dev 0

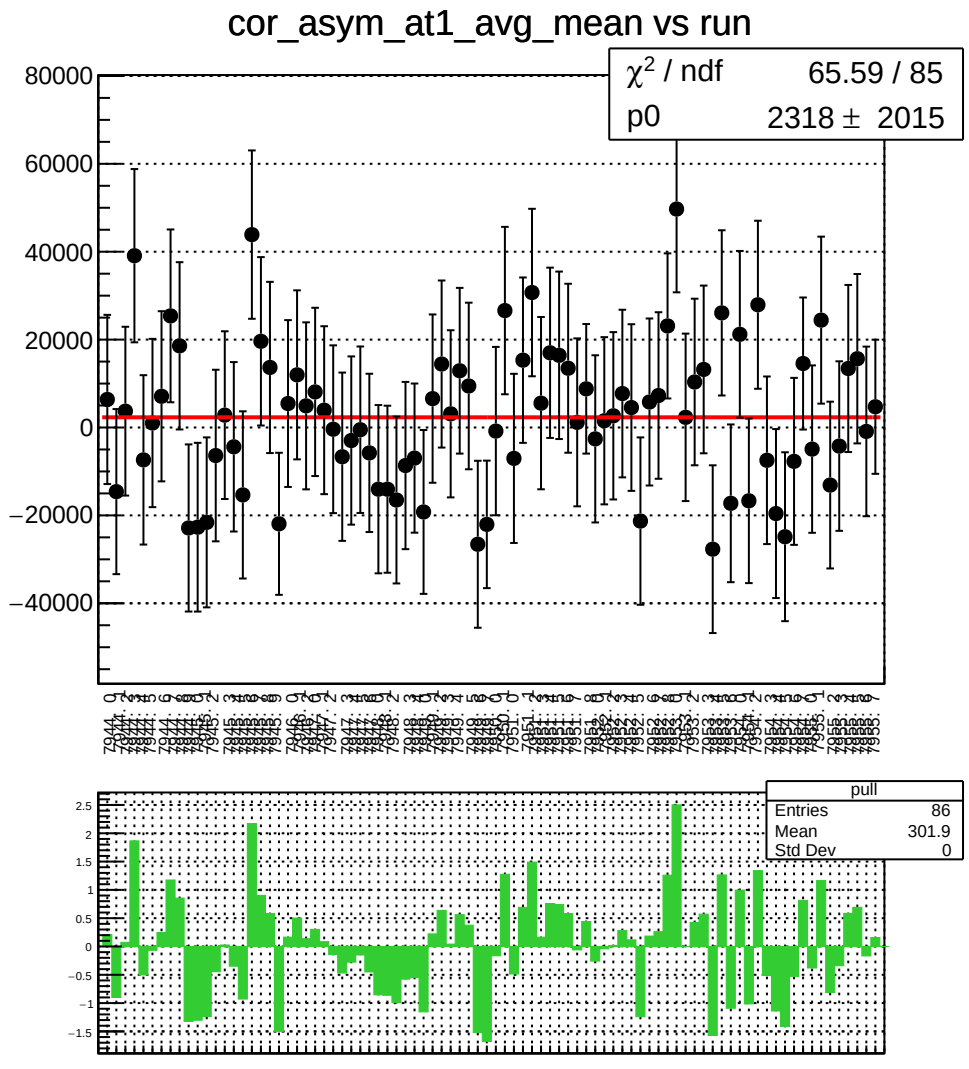

pull1D
Entries 86
Mean 0.005472
Std Dev 0.8733

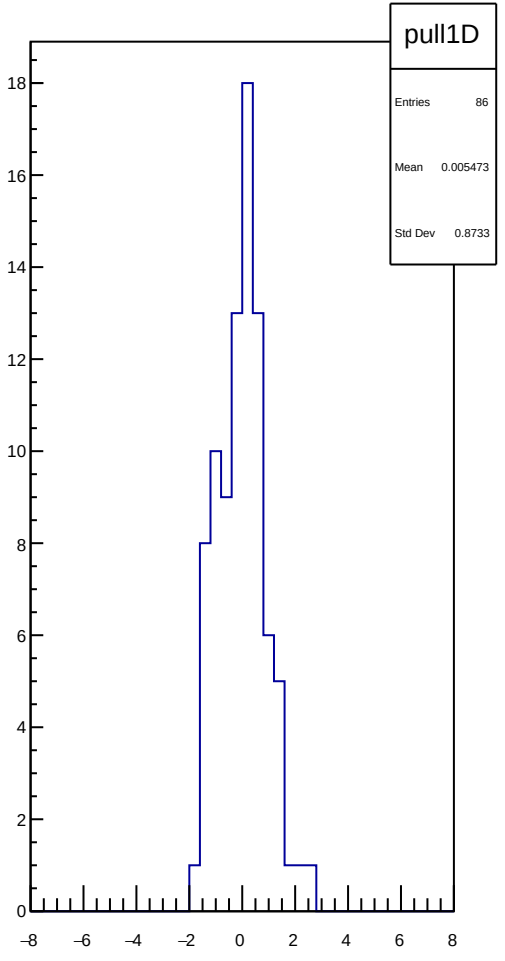

reg_asym_at1_avg_rms vs run
χ² / ndf 150.4 / 85
p0 1813 ± 1.425
1880
1860
1840
1820
1800
1780
1760

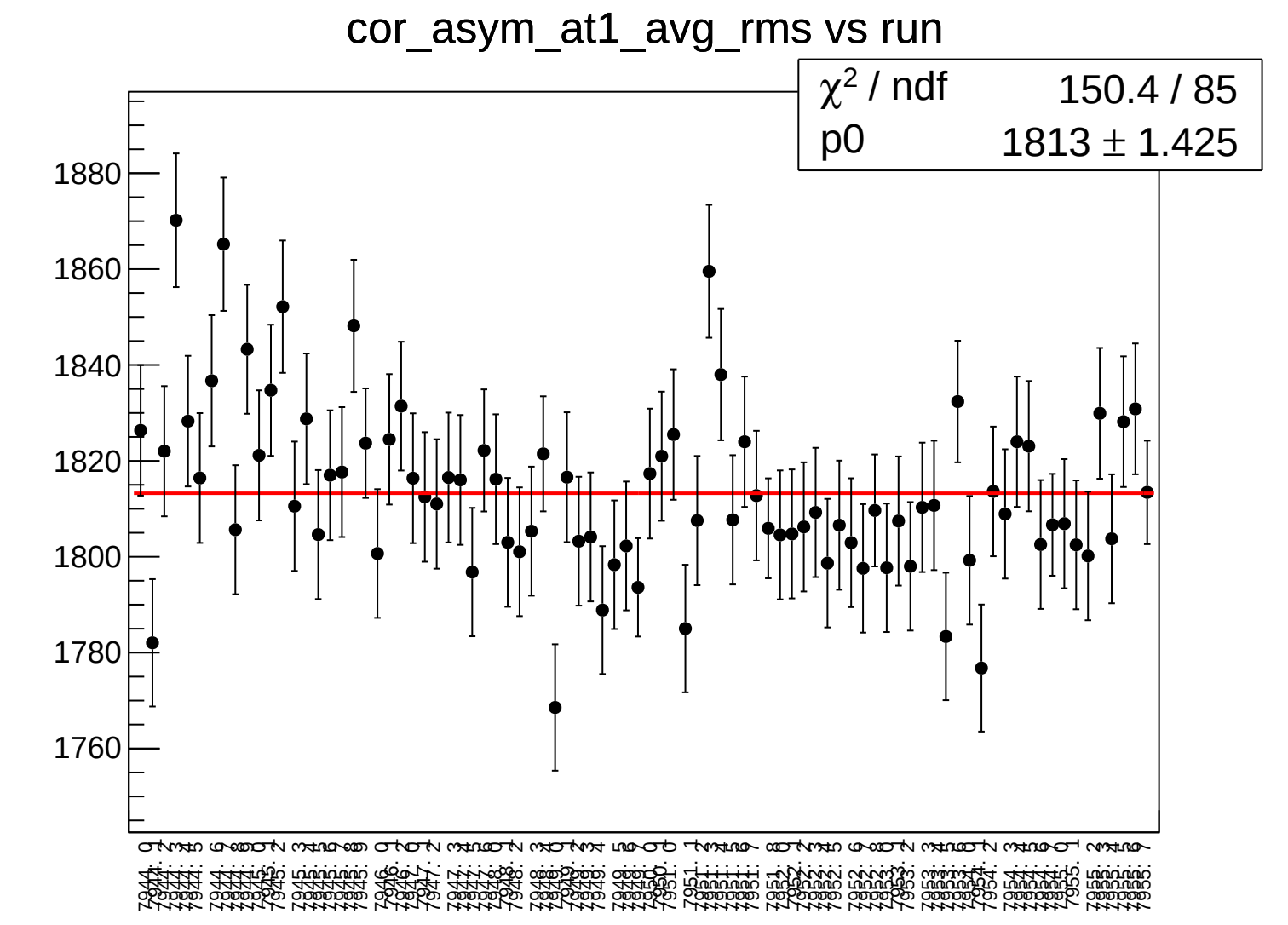

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 94.29 / 85
p0 −559.2 ± 1126
pull
Entries 86
Mean 140.2
Std Dev 0

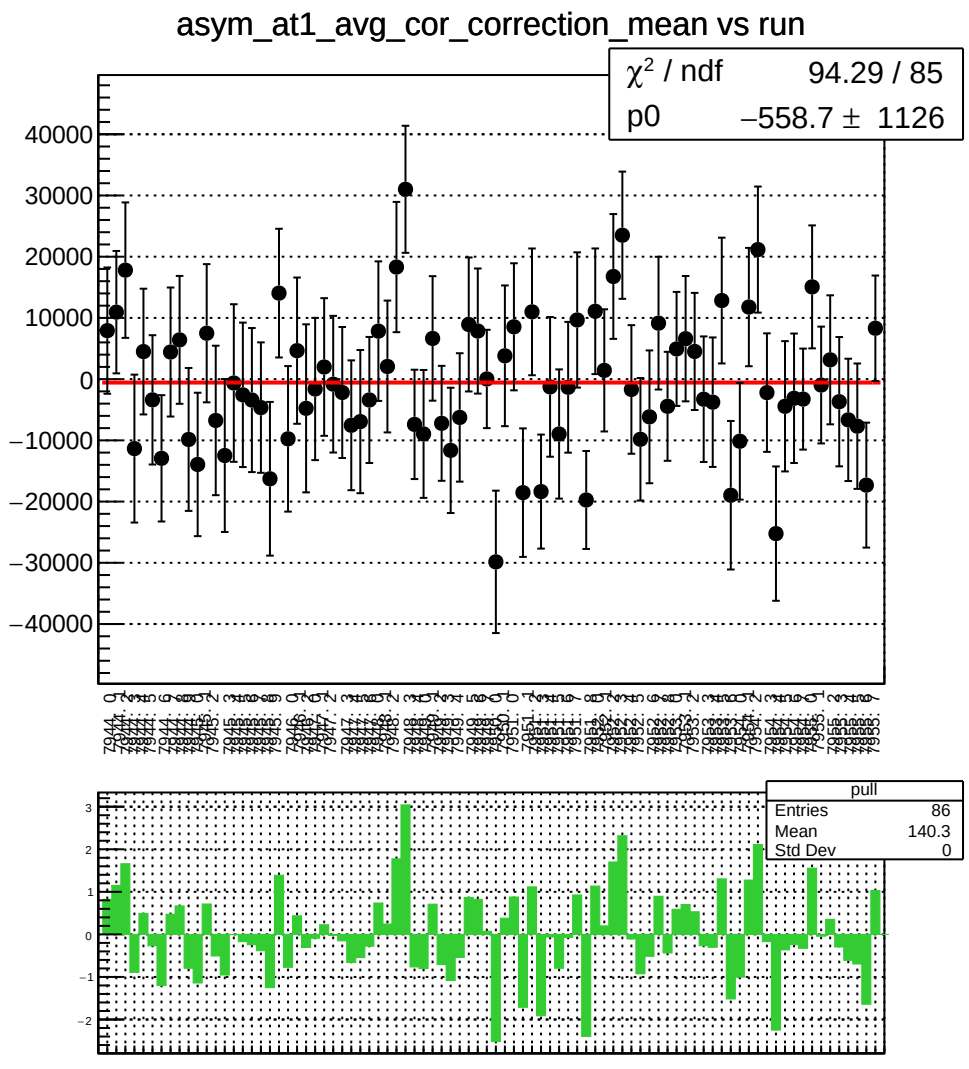

pull1D
Entries 86
Mean −0.004961
Std Dev 1.047

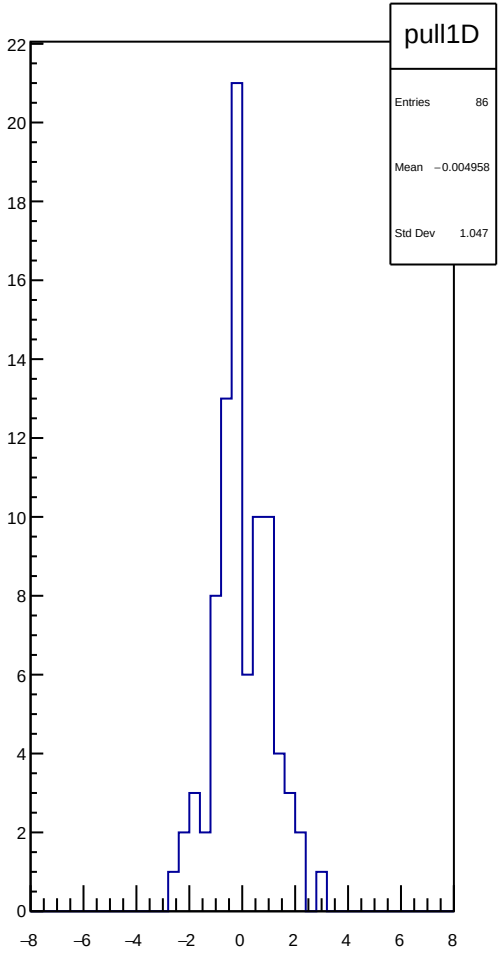

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 9379 / 85
p0 1010 ± 0.7964
1300
1200
1100
1000
900

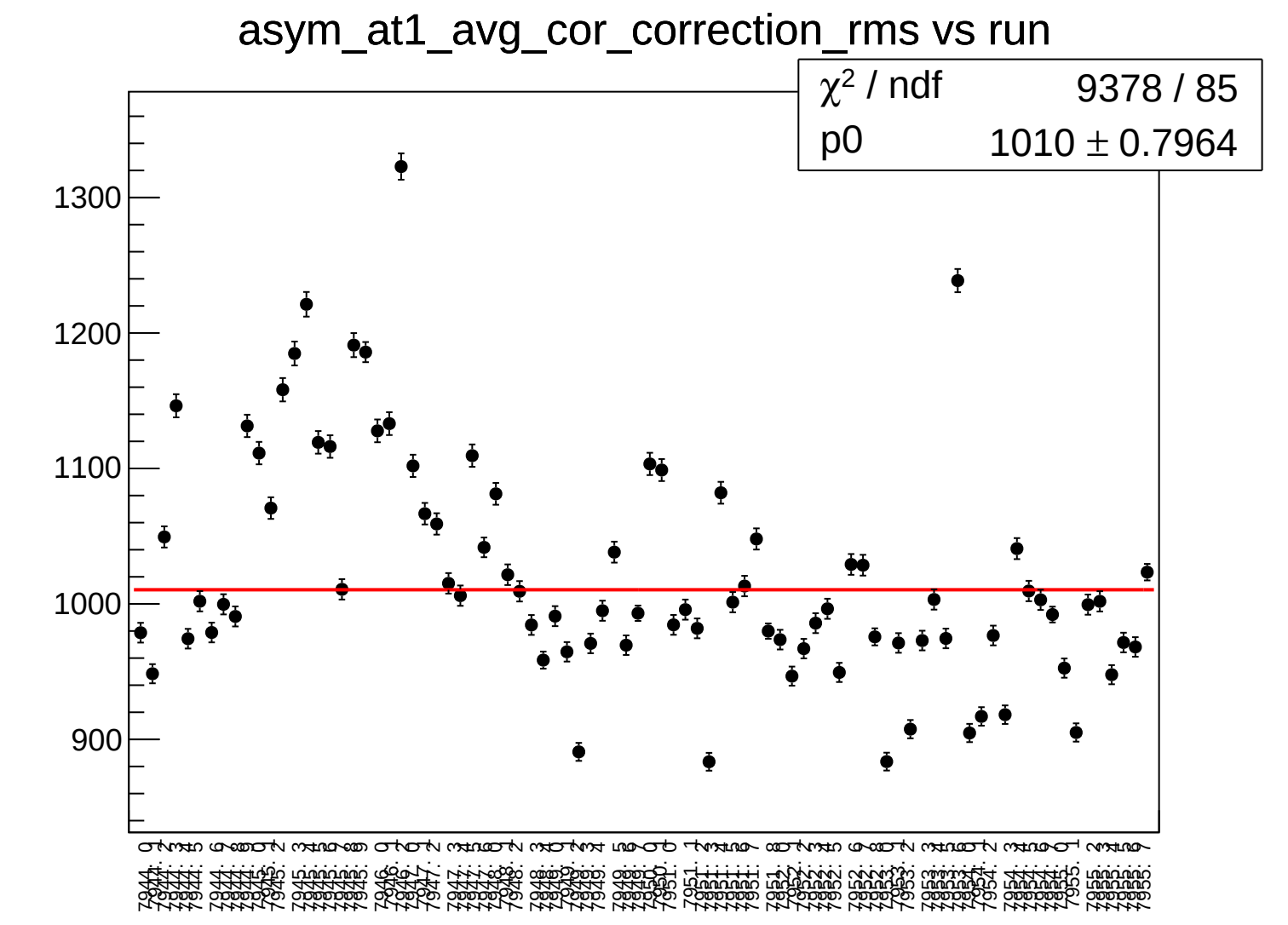

cor_asym_at1_avg_mean vs run
χ² / ndf 65.59 / 85
p0 2318 ± 2015
pull
Entries 86
Mean 301.9
Std Dev 0

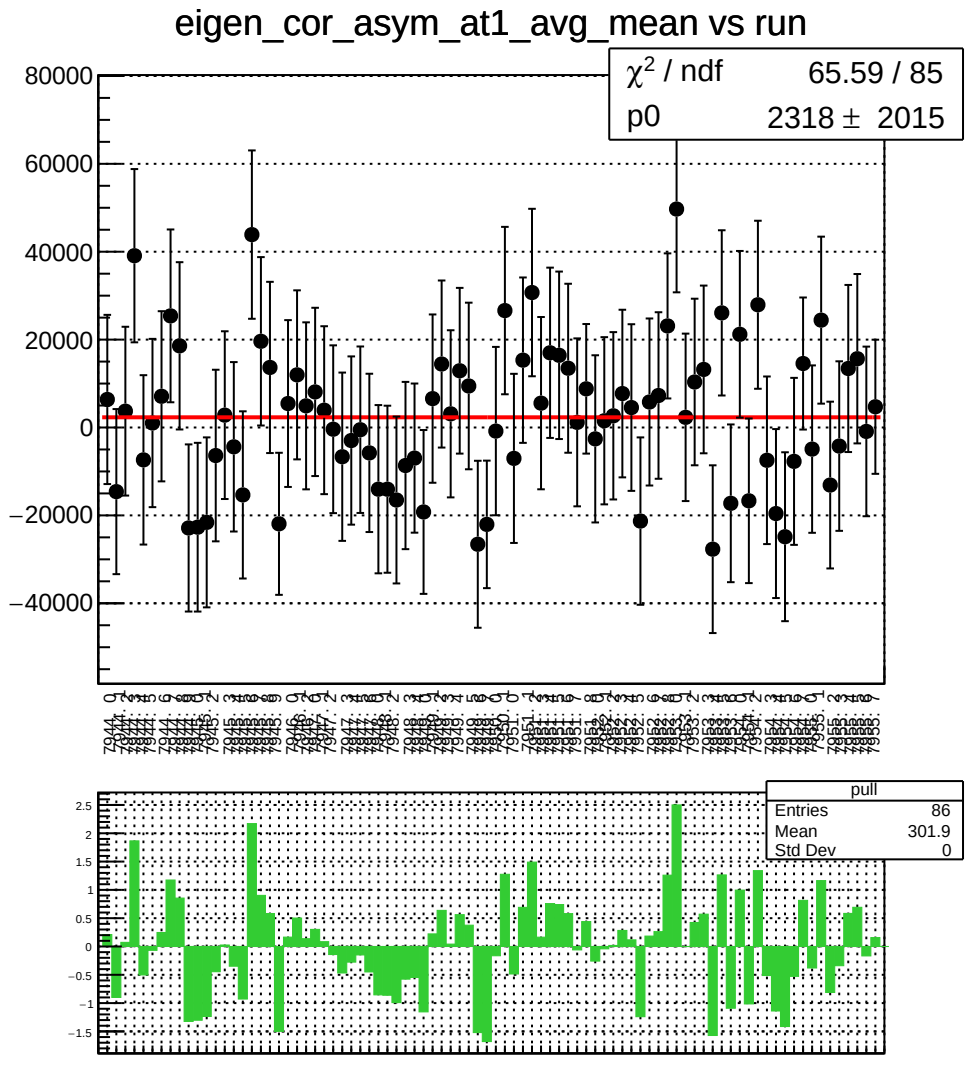

pull1D
Entries 86
Mean 0.005473
Std Dev 0.8733

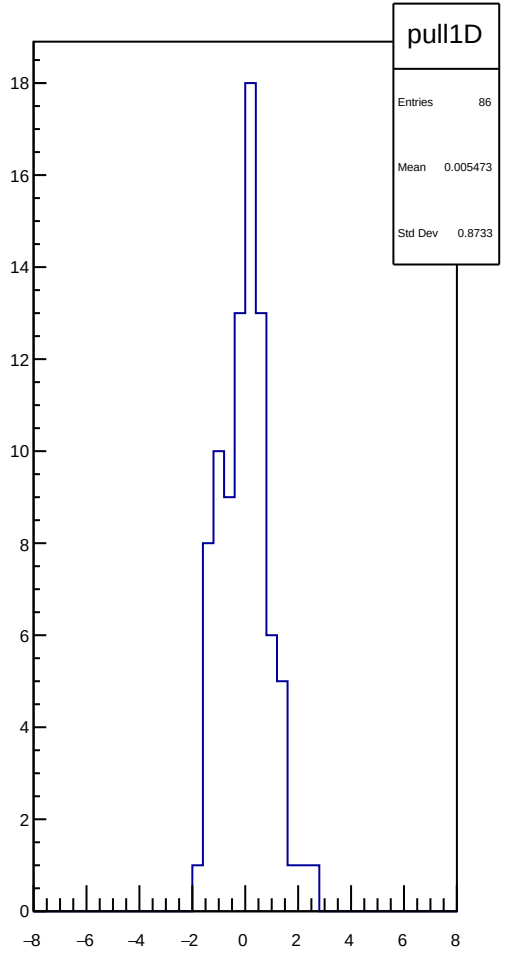

cor_asym_at1_avg_rms vs run
χ^2 / ndf 150.4 / 85
p0 1813 ± 1.425
1880
1860
1840
1820
1800
1780
1760

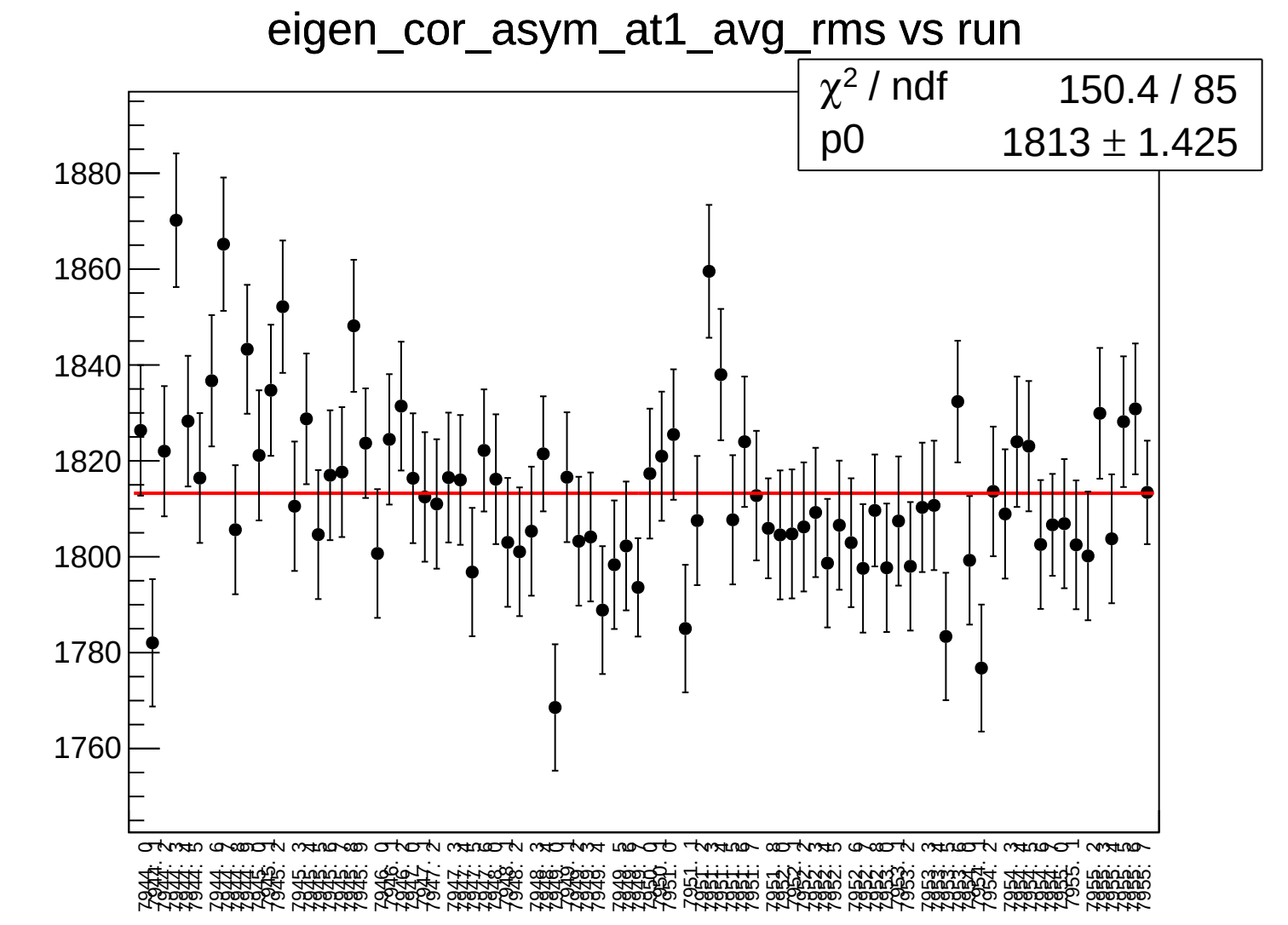

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 94.29 / 85
p0 −558.7 ± 1126
pull
Entries 86
Mean 140.3
Std Dev 0

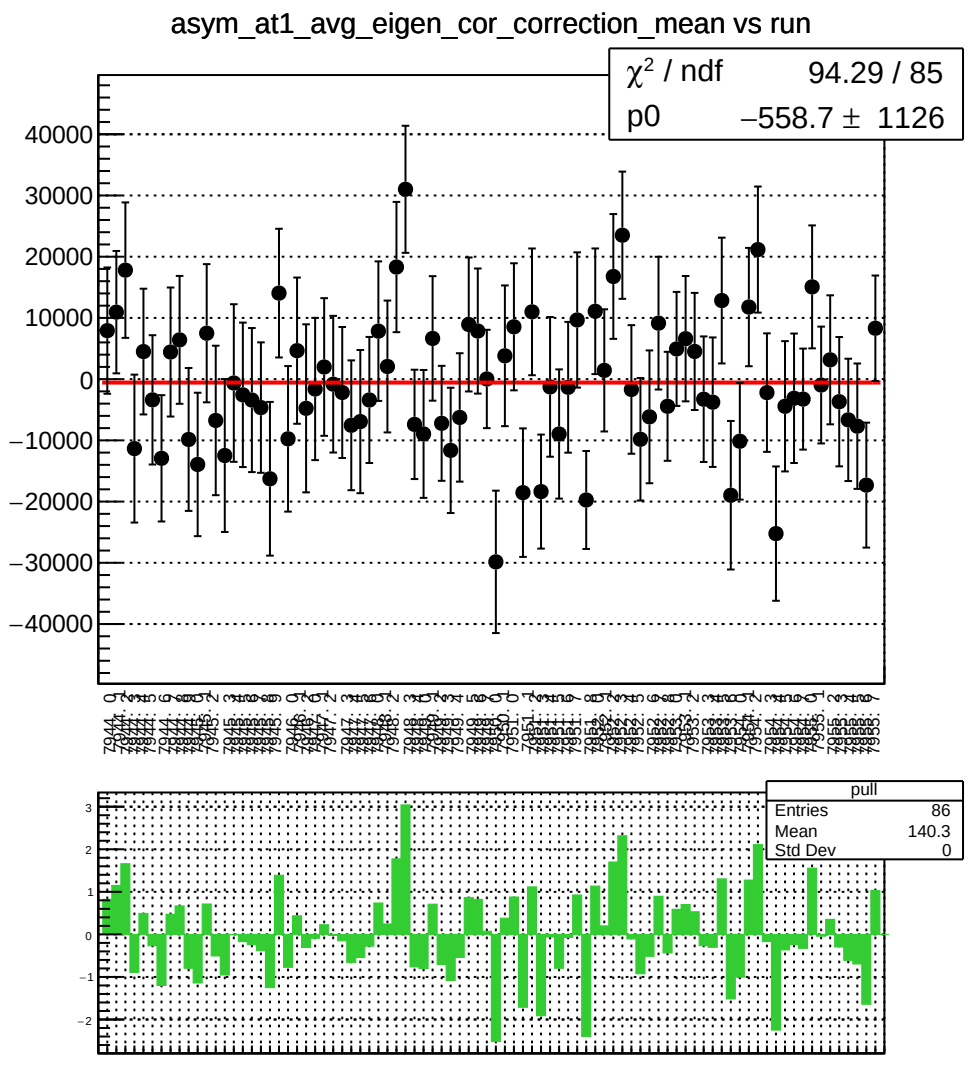

pull1D
Entries 86
Mean −0.004958
Std Dev 1.047

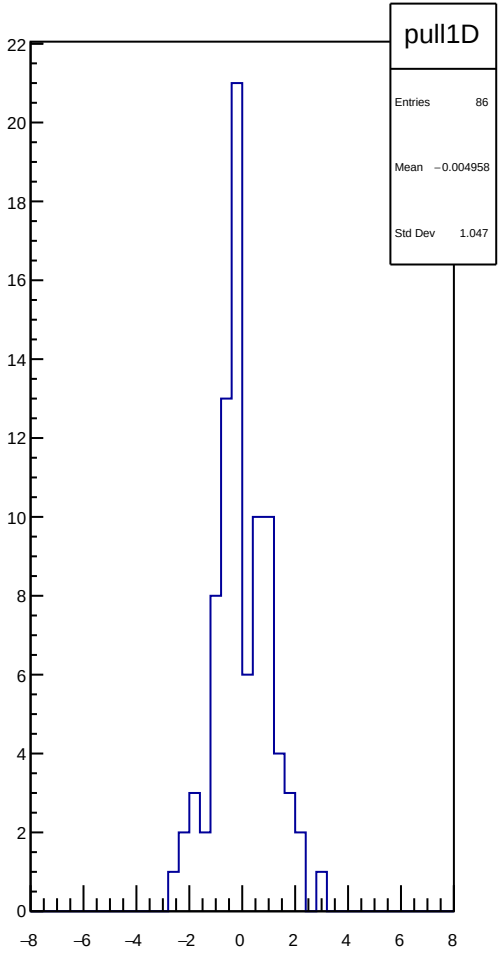

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 9378 / 85
p0 1010 ± 0.7964
1300
1200
1100
1000
900

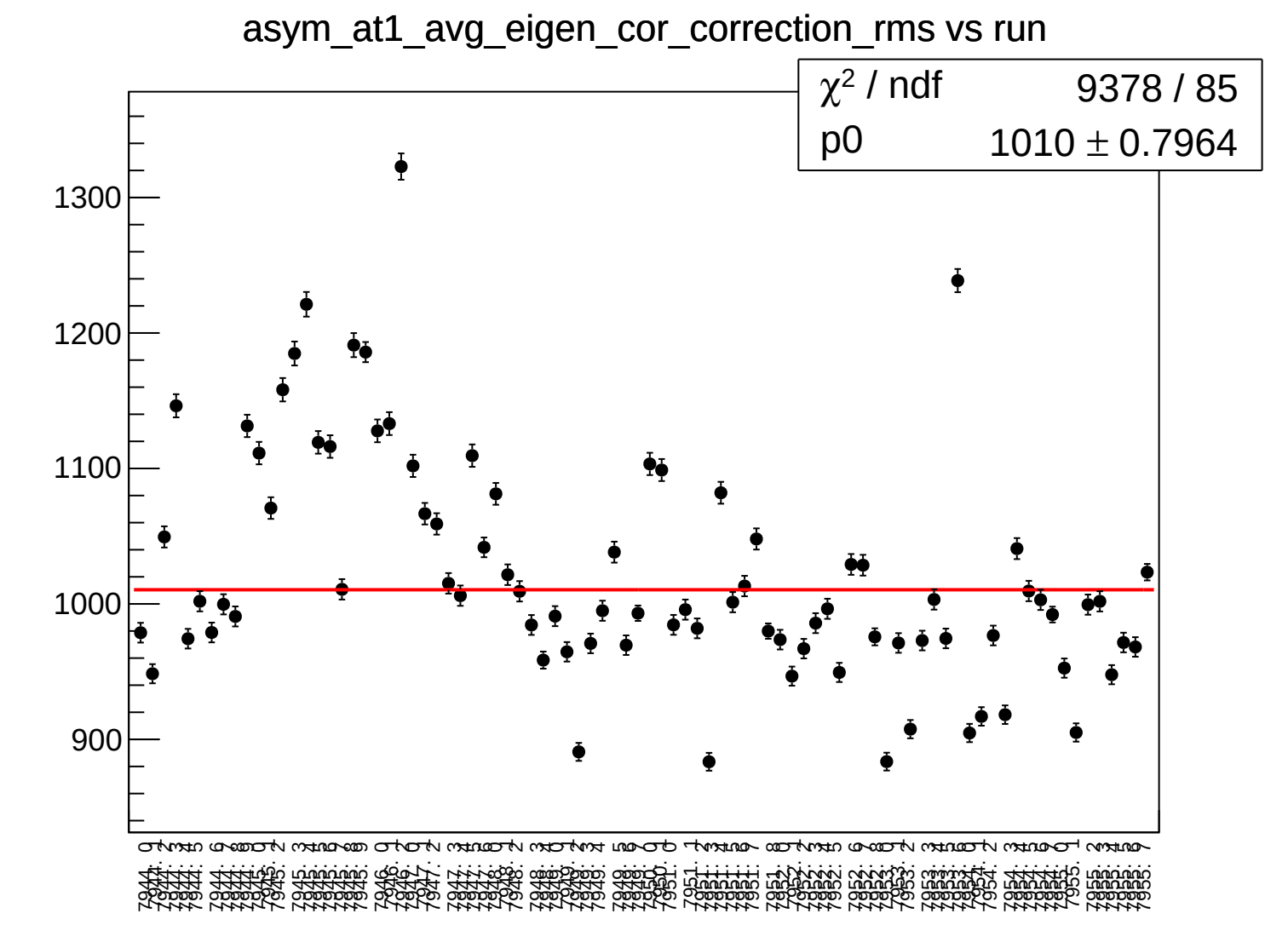

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 65.59 / 85
p0 2318 ± 2015
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 301.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

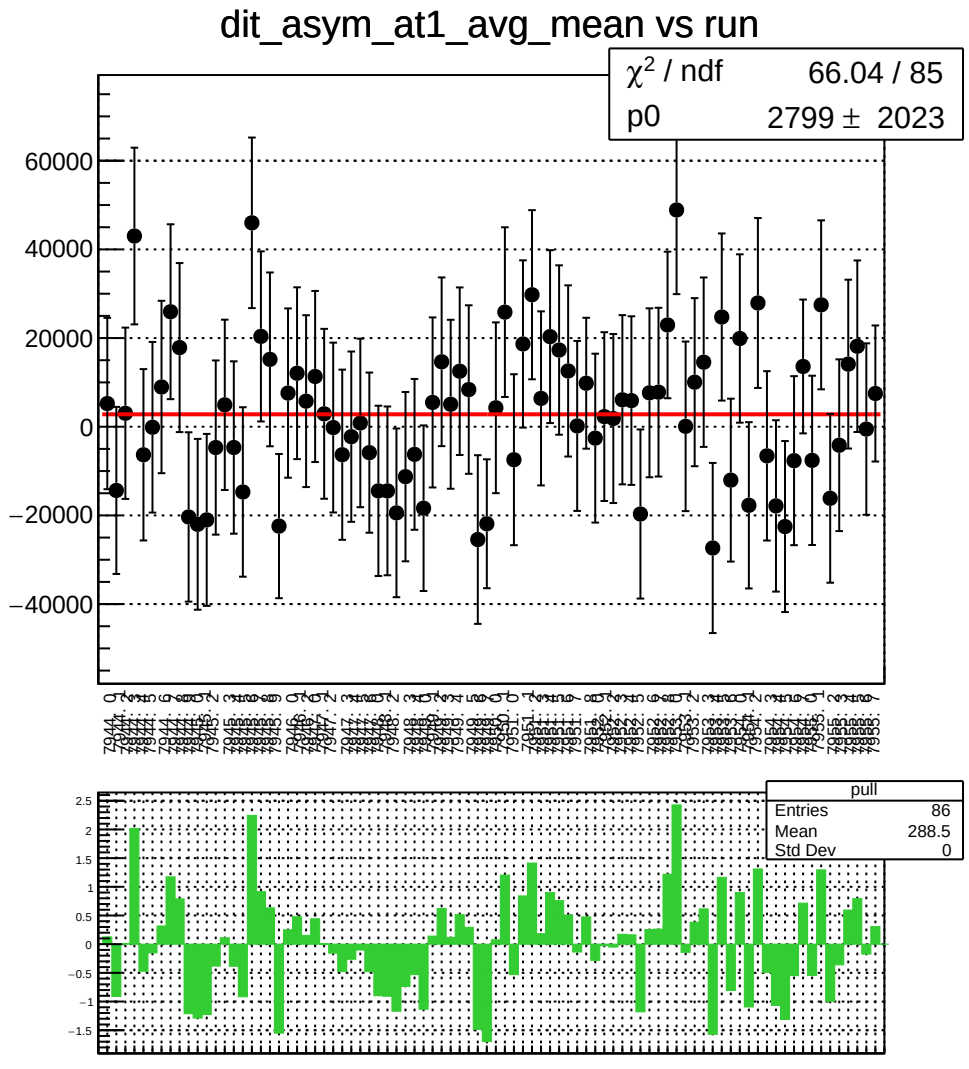

pull1D
Entries 86
Mean 0.005473
Std Dev 0.8733
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

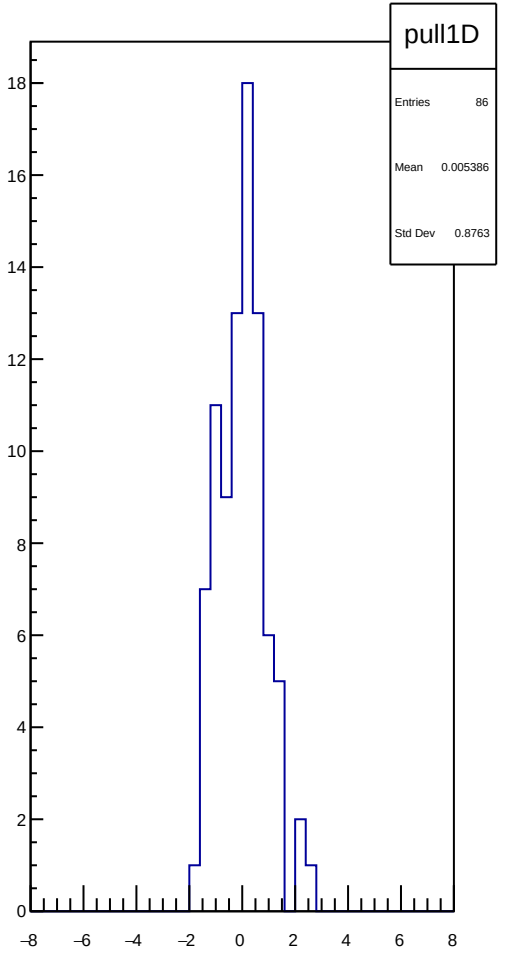

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 150.4 / 85
p0 1813 ± 1.425
1880
1860
1840
1820
1800
1780
1760

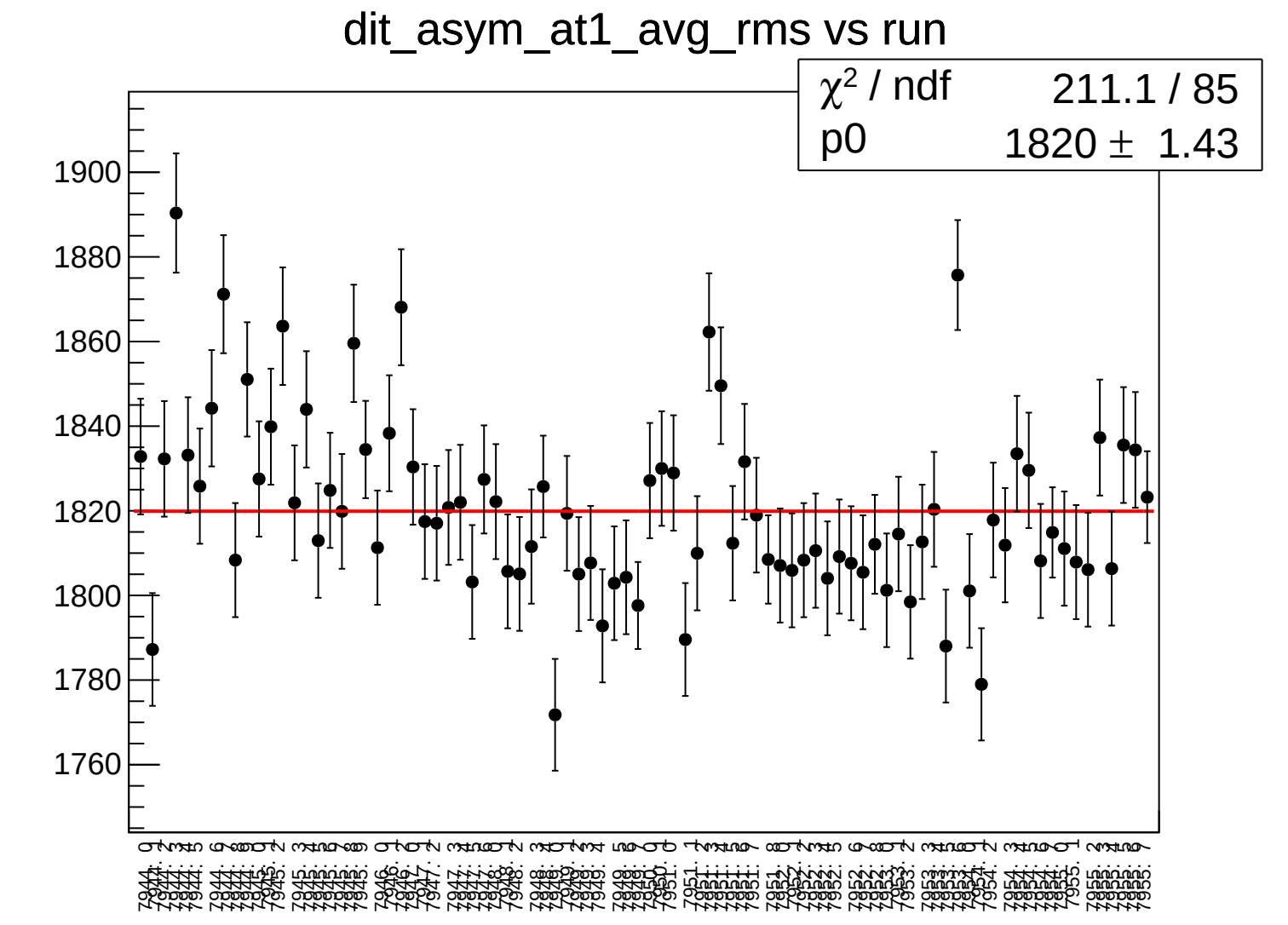

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.29 / 85
p0 −558.7 ± 1126
pull
Entries 86
Mean 140.3
Std Dev 0

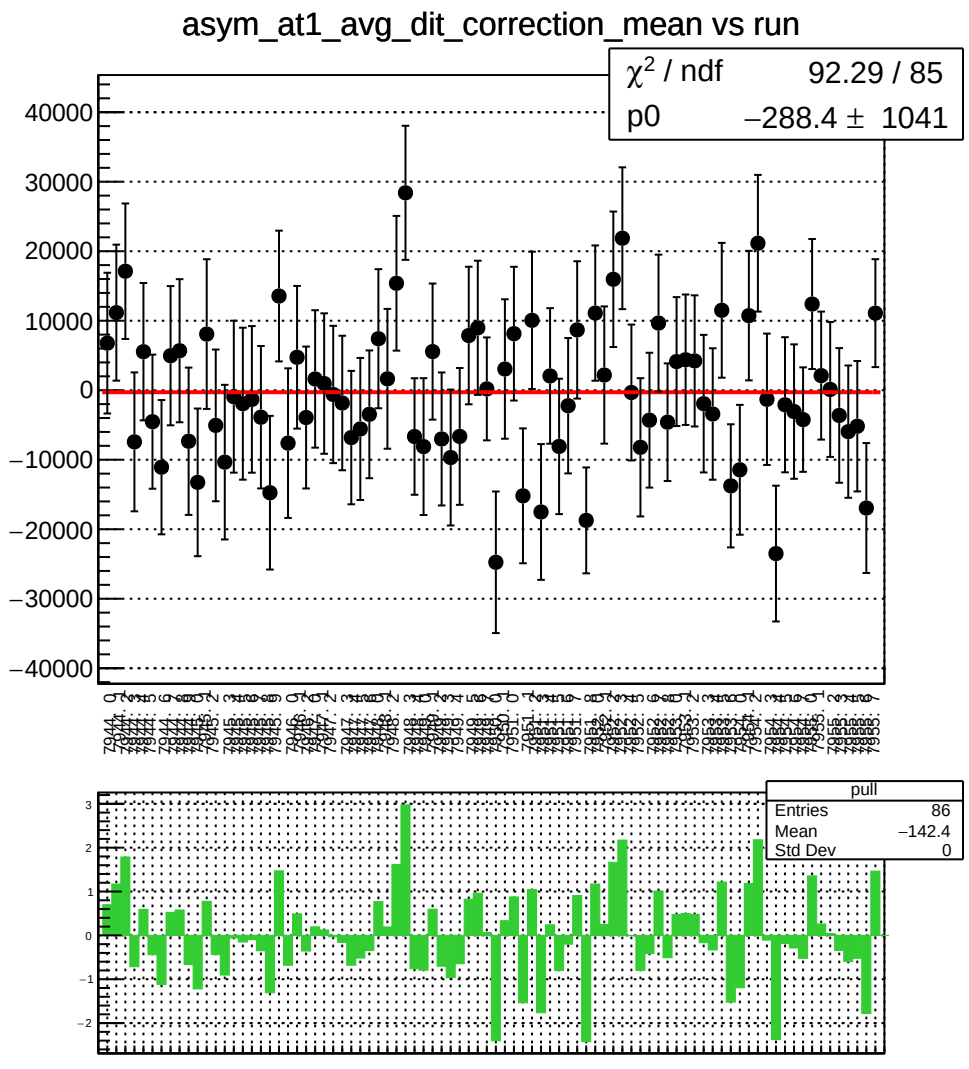

pull1D
Entries 86
Mean −0.004958
Std Dev 1.047

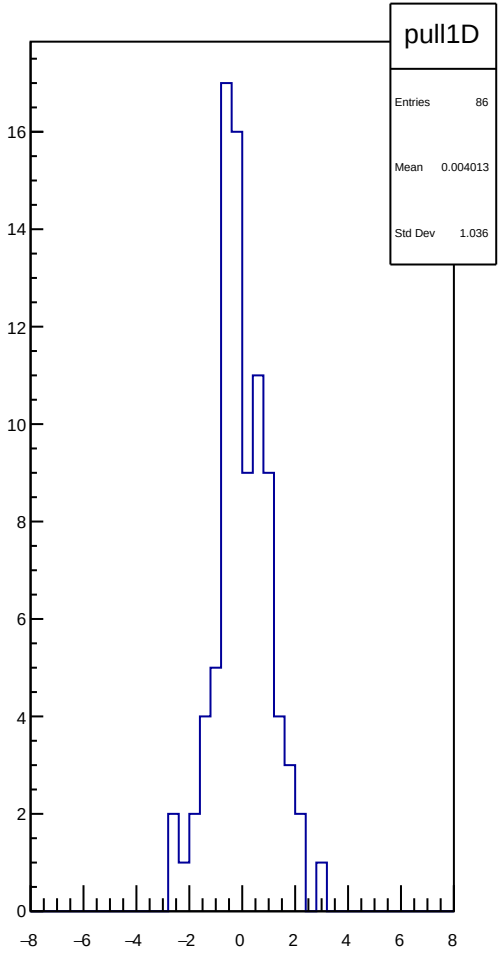

asym_at1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9378 / 85
p0 1010 ± 0.7964
1300
1200
1100
1000
900

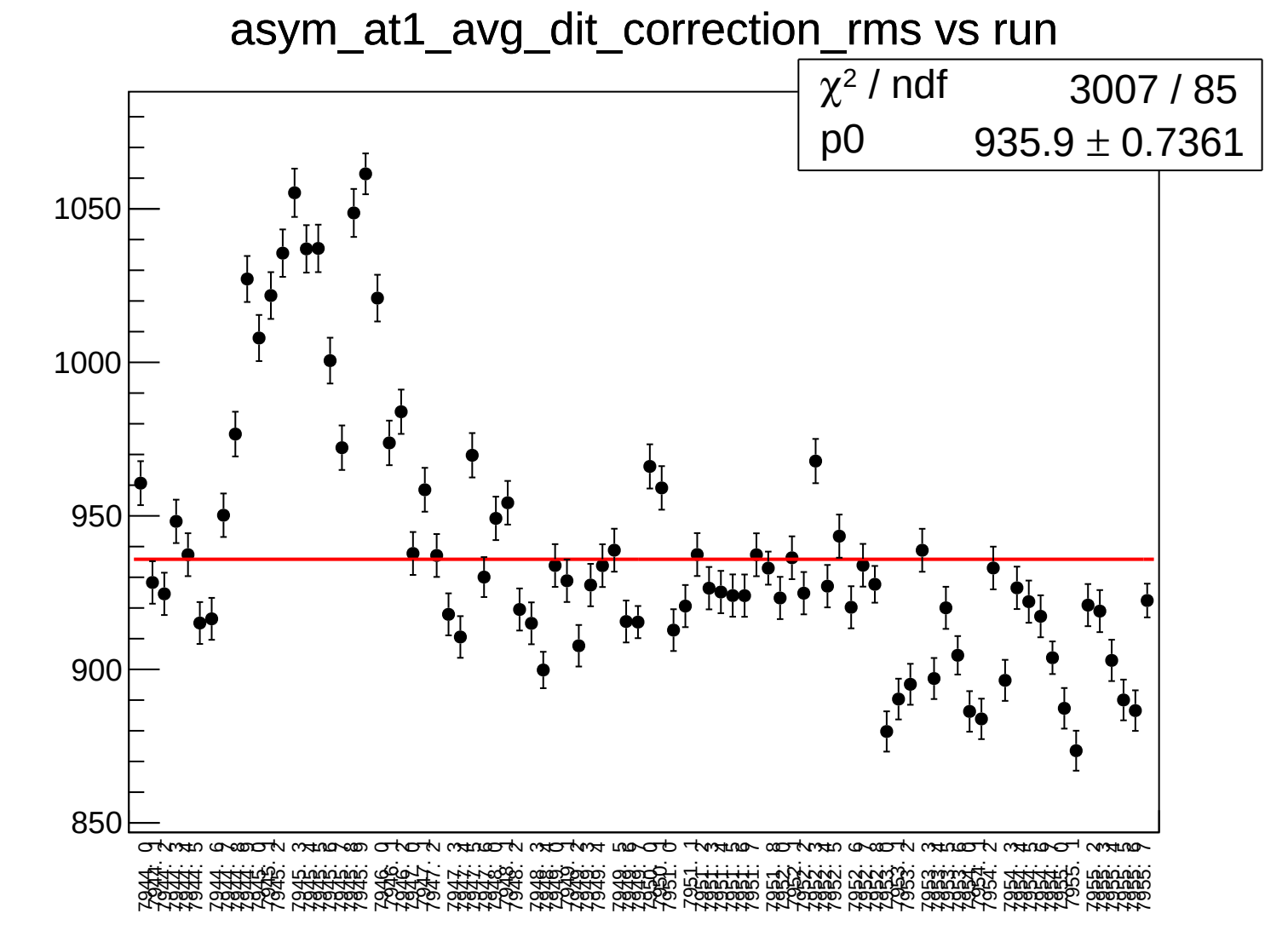

dit_asym_at1_avg_mean vs run
χ² / ndf 66.04 / 85
p0 2799 ± 2023
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 288.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

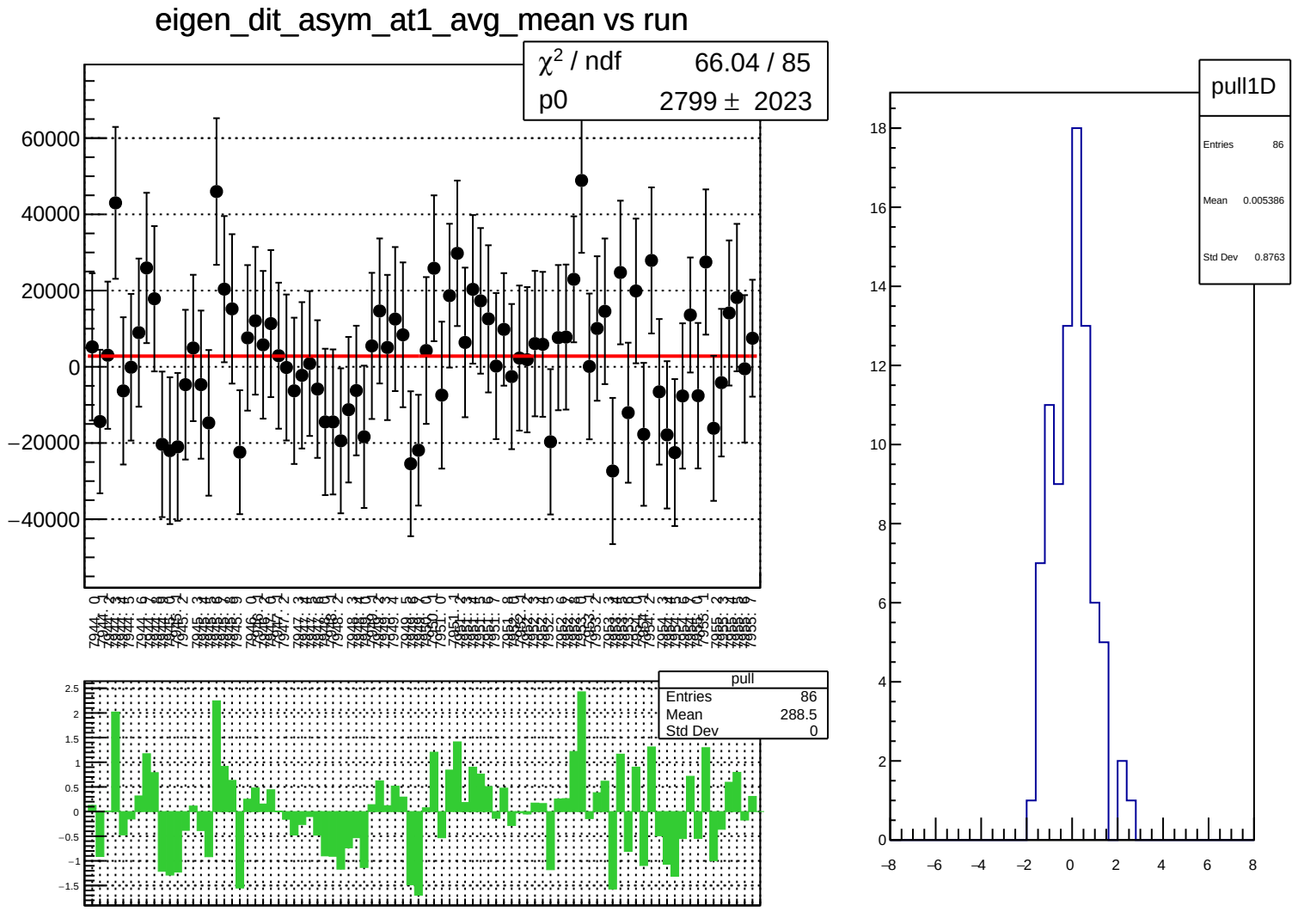

pull1D
Entries 86
Mean 0.005386
Std Dev 0.8763
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

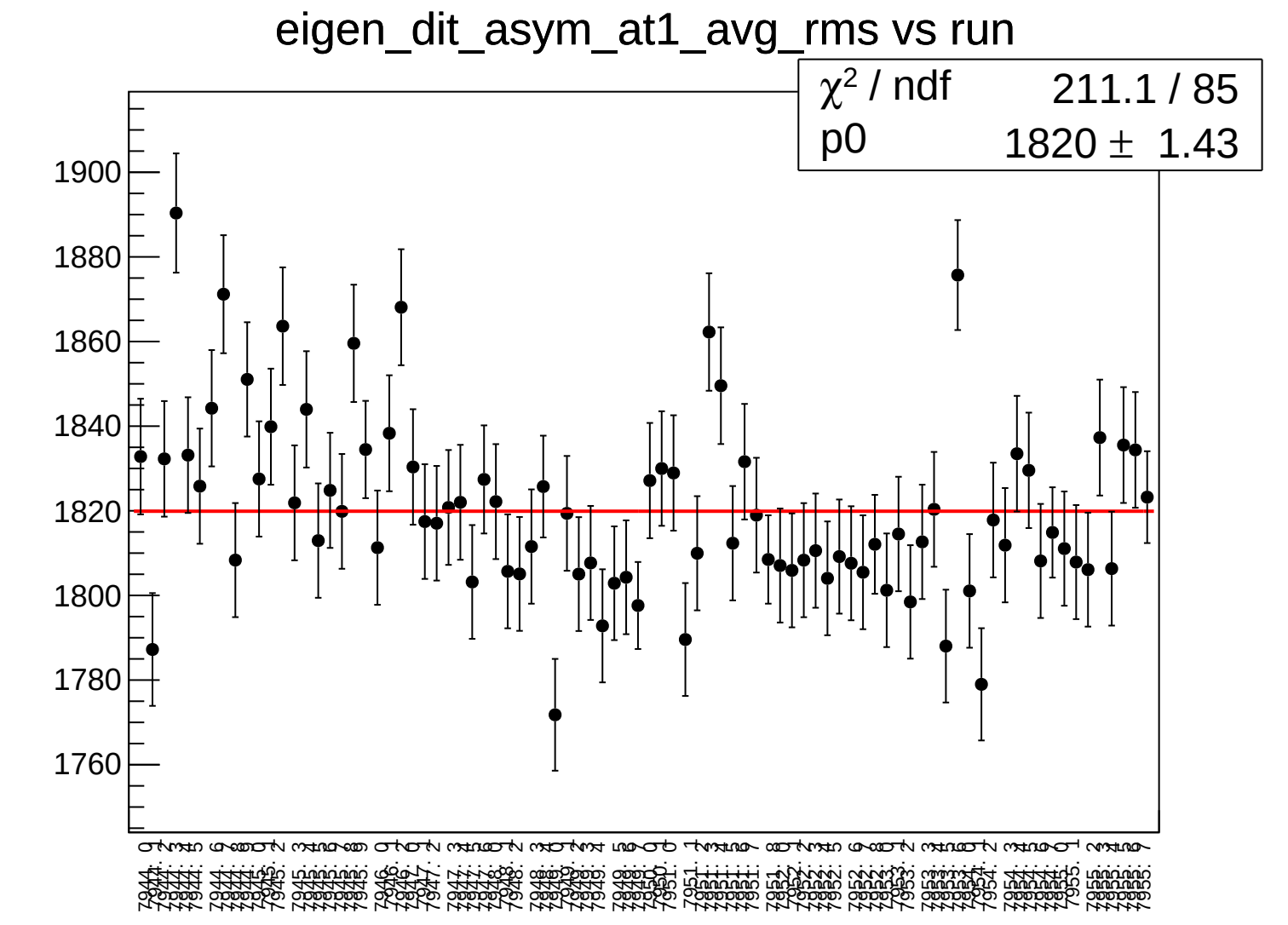

dit_asym_at1_avg_rms vs run
χ² / ndf 211.1 / 85
p0 1820 ± 1.43
1900
1880
1860
1840
1820
1800
1780
1760

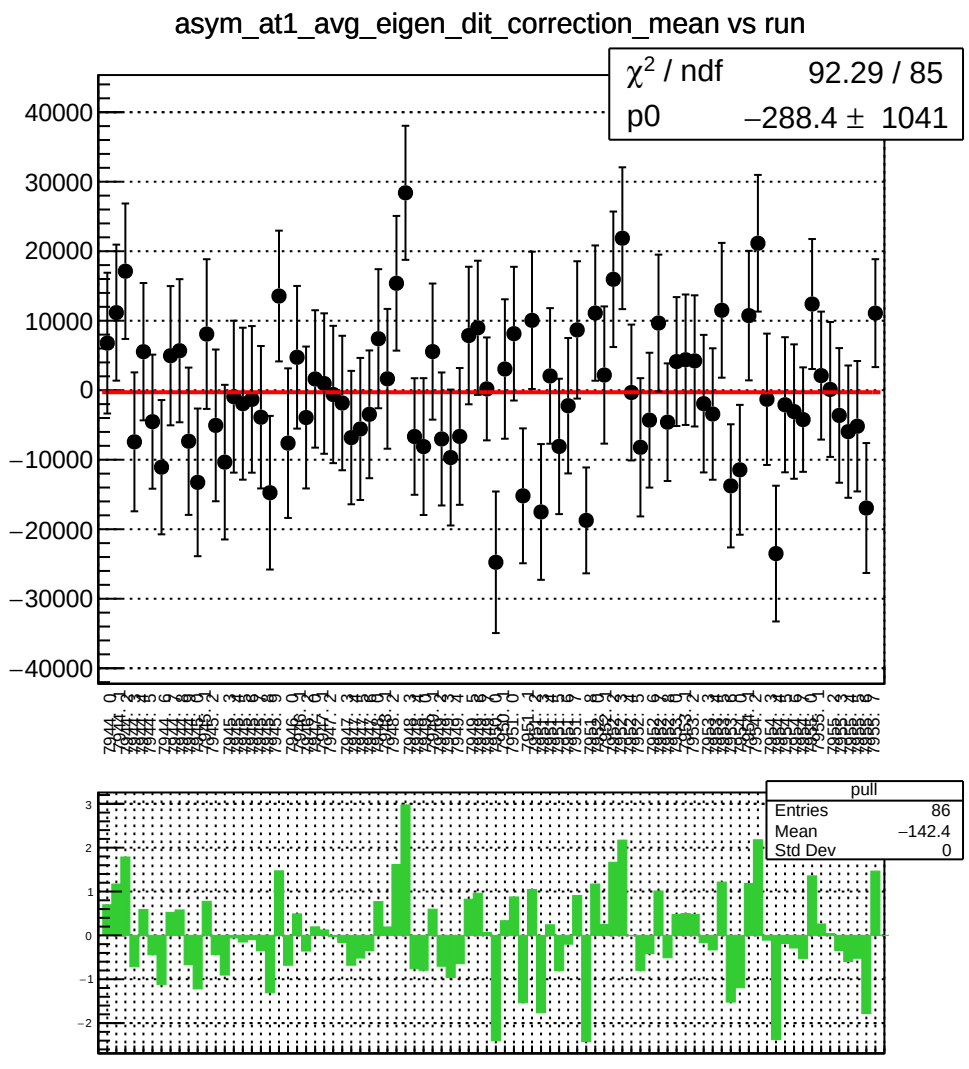

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 92.29 / 85
p0 −288.4 ± 1041
pull
Entries 86
Mean −142.4
Std Dev 0

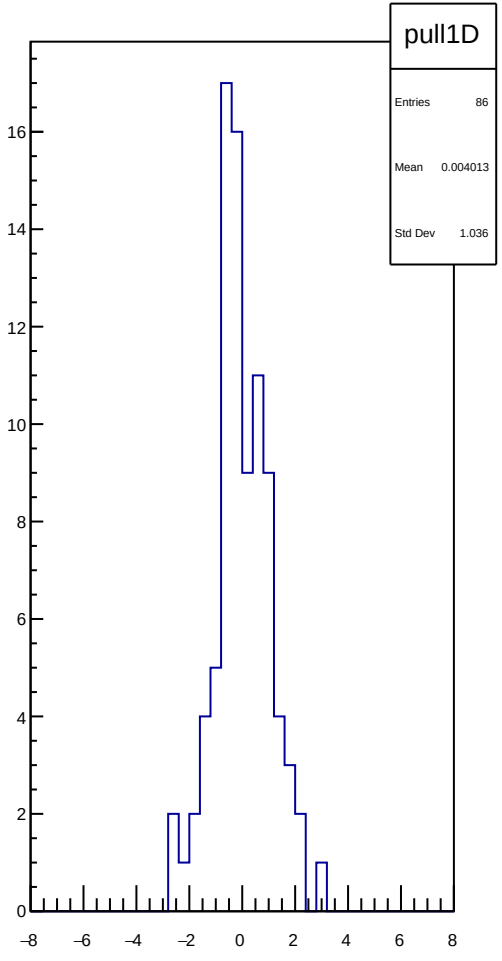

pull1D
Entries 86
Mean 0.004013
Std Dev 1.036

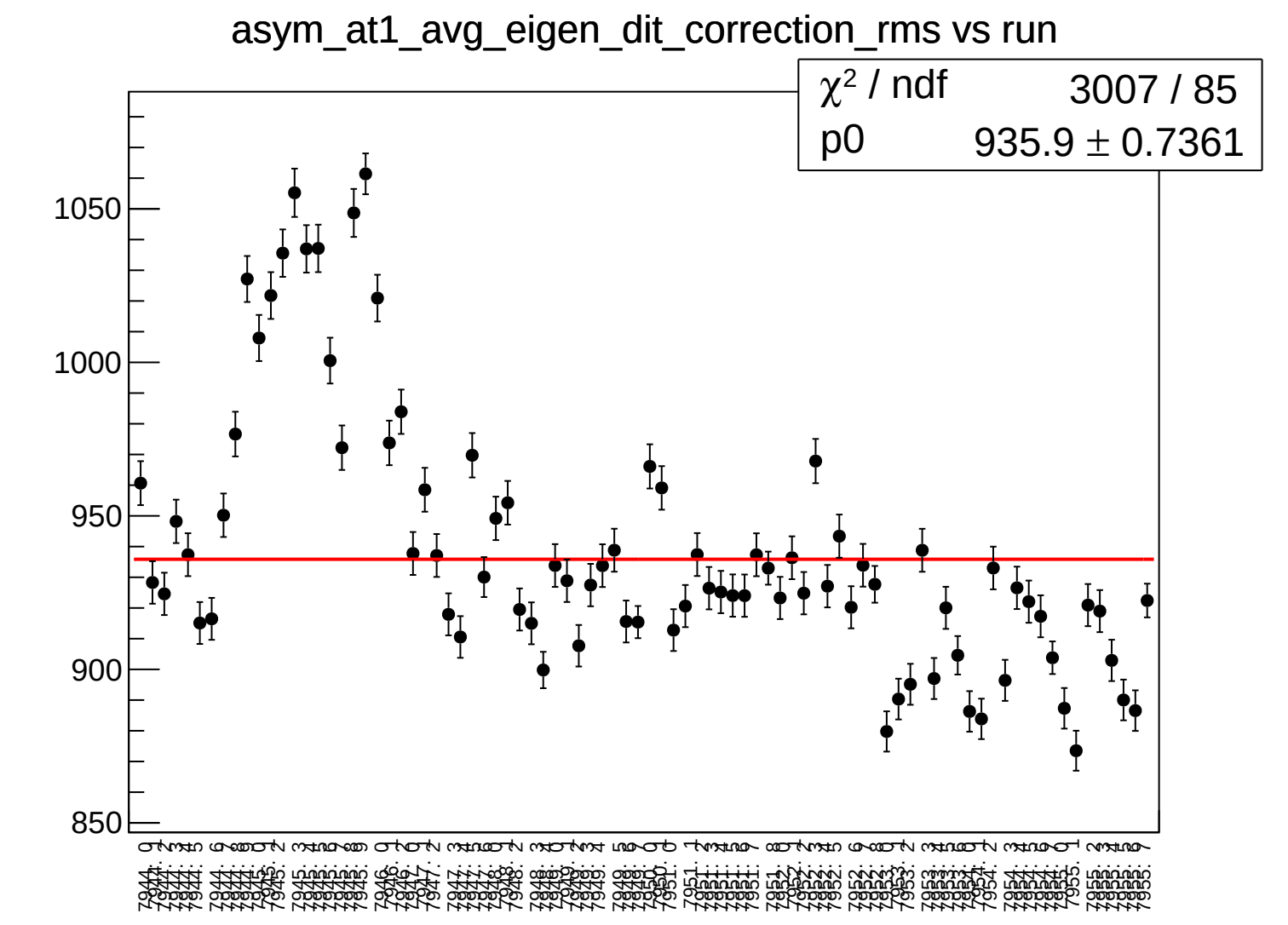

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 3007 / 85
p0 935.9 ± 0.7361
1050
1000
950
900
850

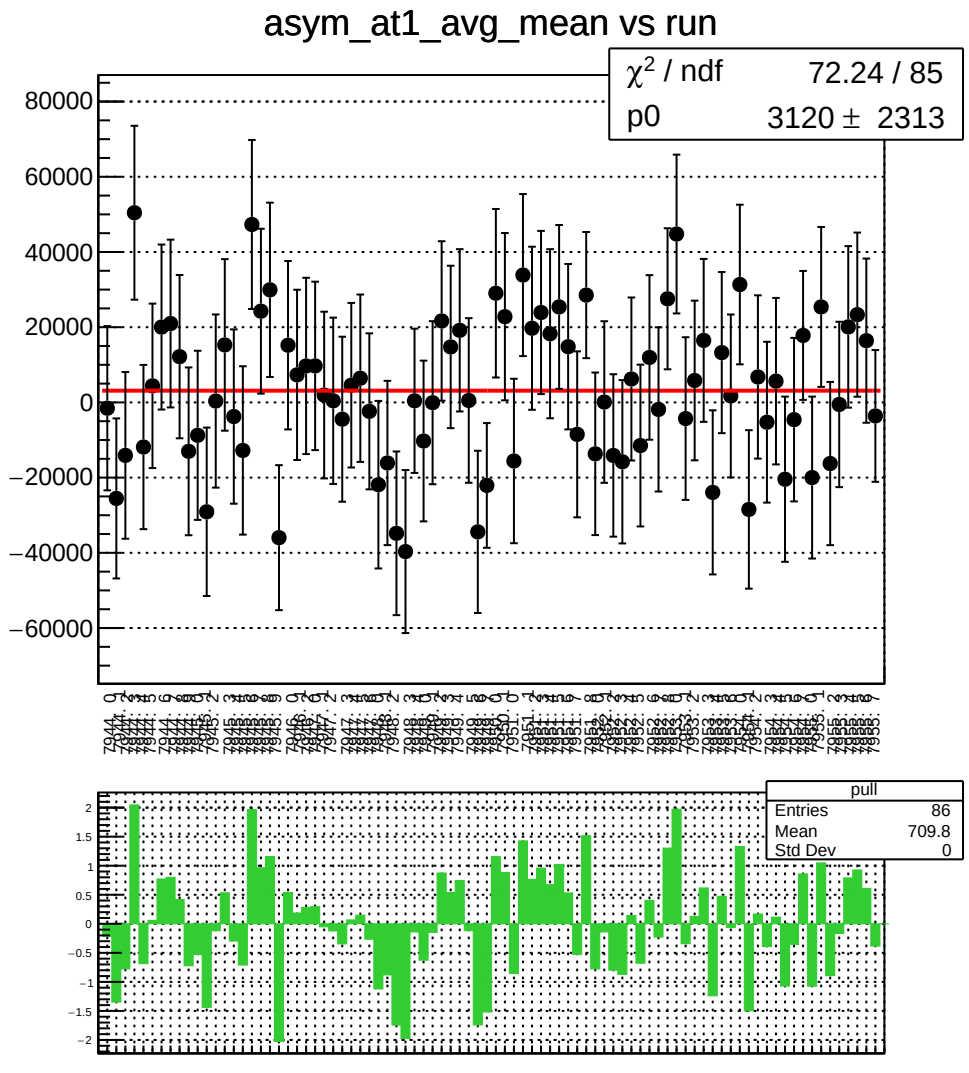

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 66.04 / 85
p0 2799 ± 2023
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 288.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.005386
Std Dev 0.8763
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

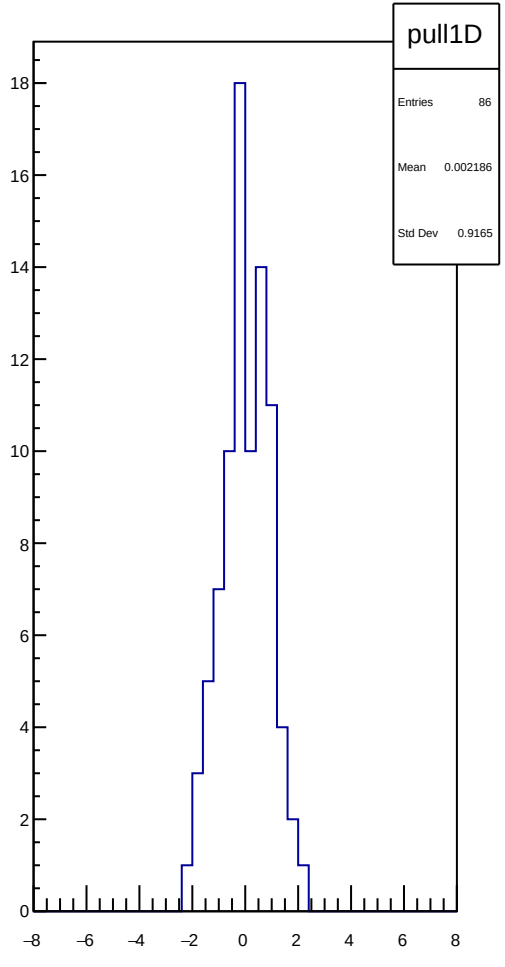

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 211.1 / 85
p0 1820 ± 1.43
1900
1880
1860
1840
1820
1800
1780
1760

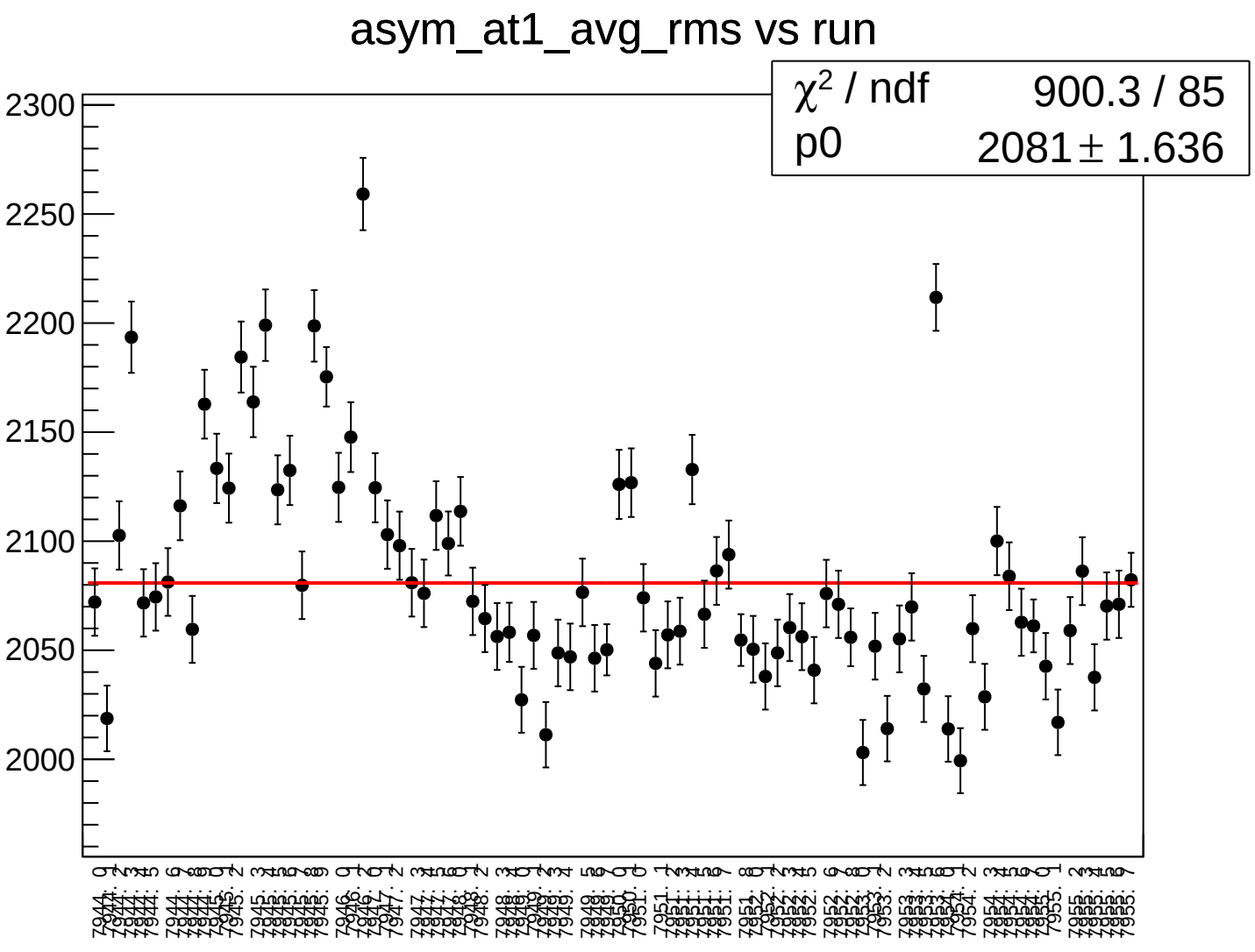

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.29 / 85
p0 −288.4 ± 1041
pull
Entries 86
Mean −142.4
Std Dev 0

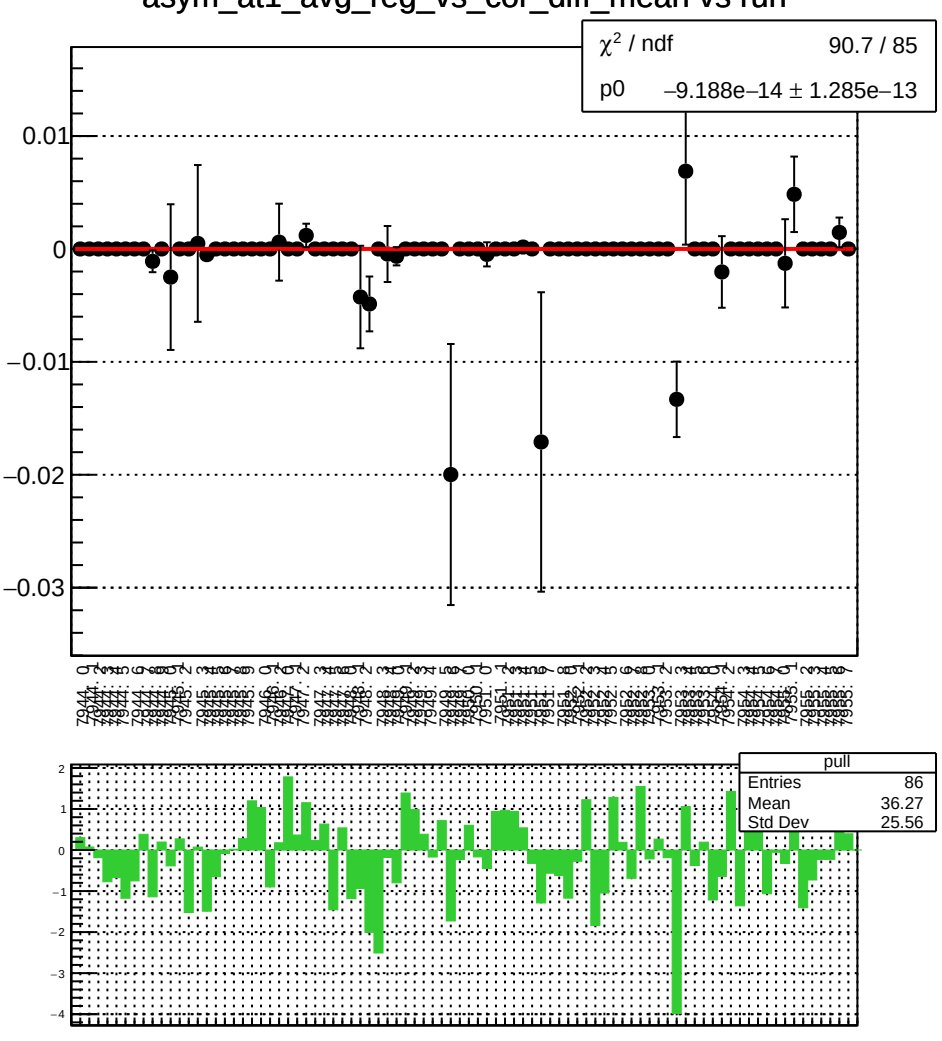

pull1D
Entries 86
Mean 0.004013
Std Dev 1.036

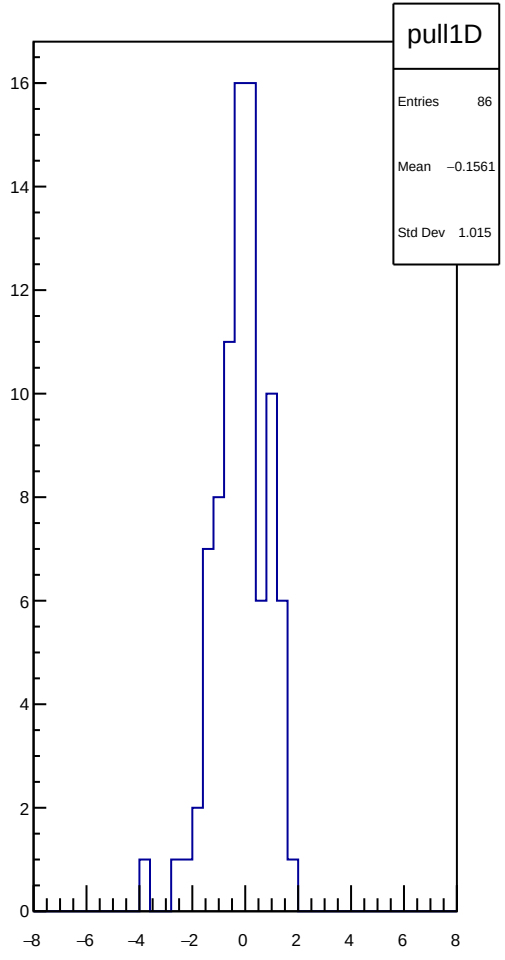

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3007 / 85
p0 935.9 ± 0.7361
1050
1000
950
900
850

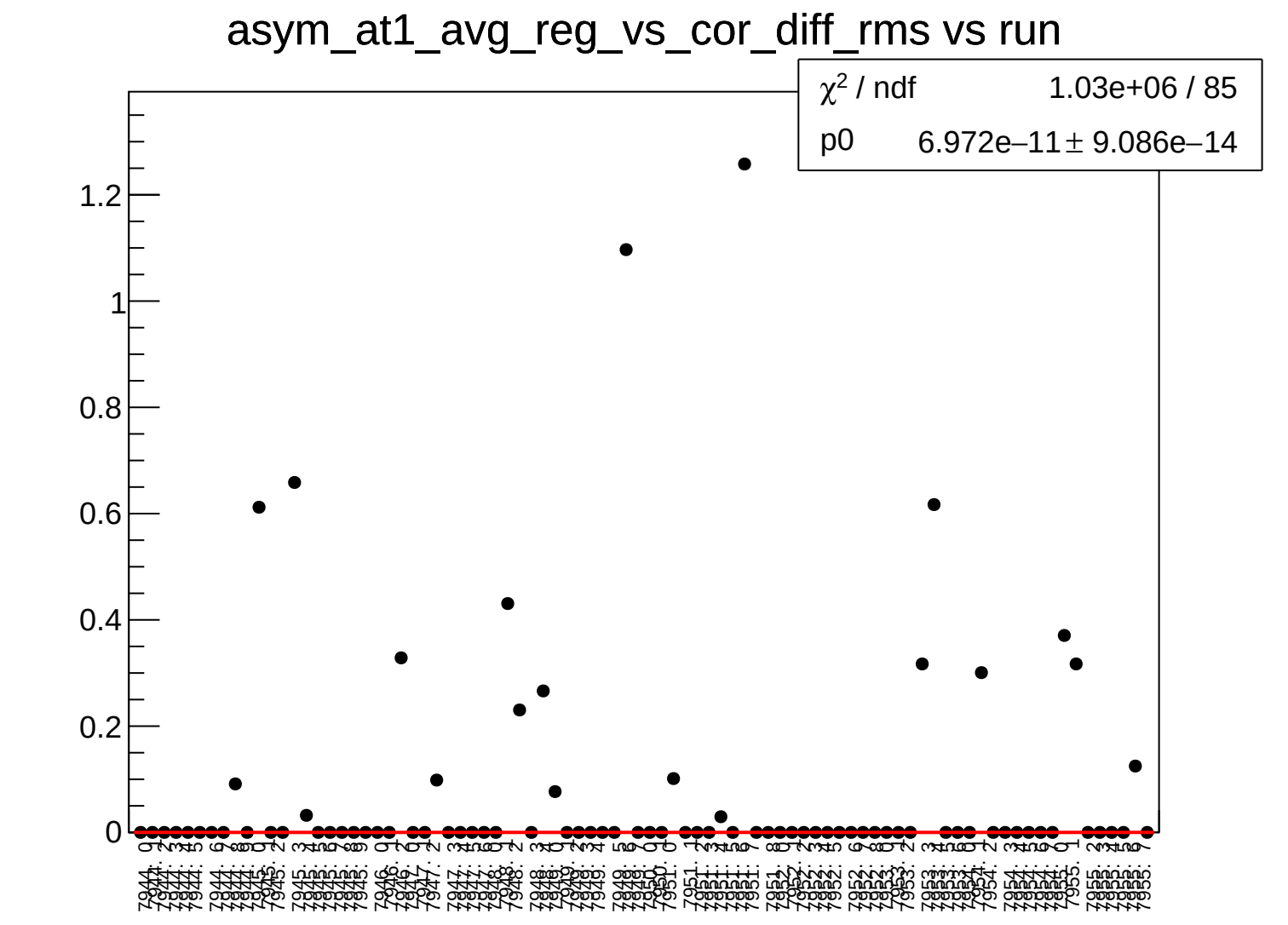

asym_at1_avg_mean vs run
χ² / ndf 72.24 / 85
p0 3120 ± 2313
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 709.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

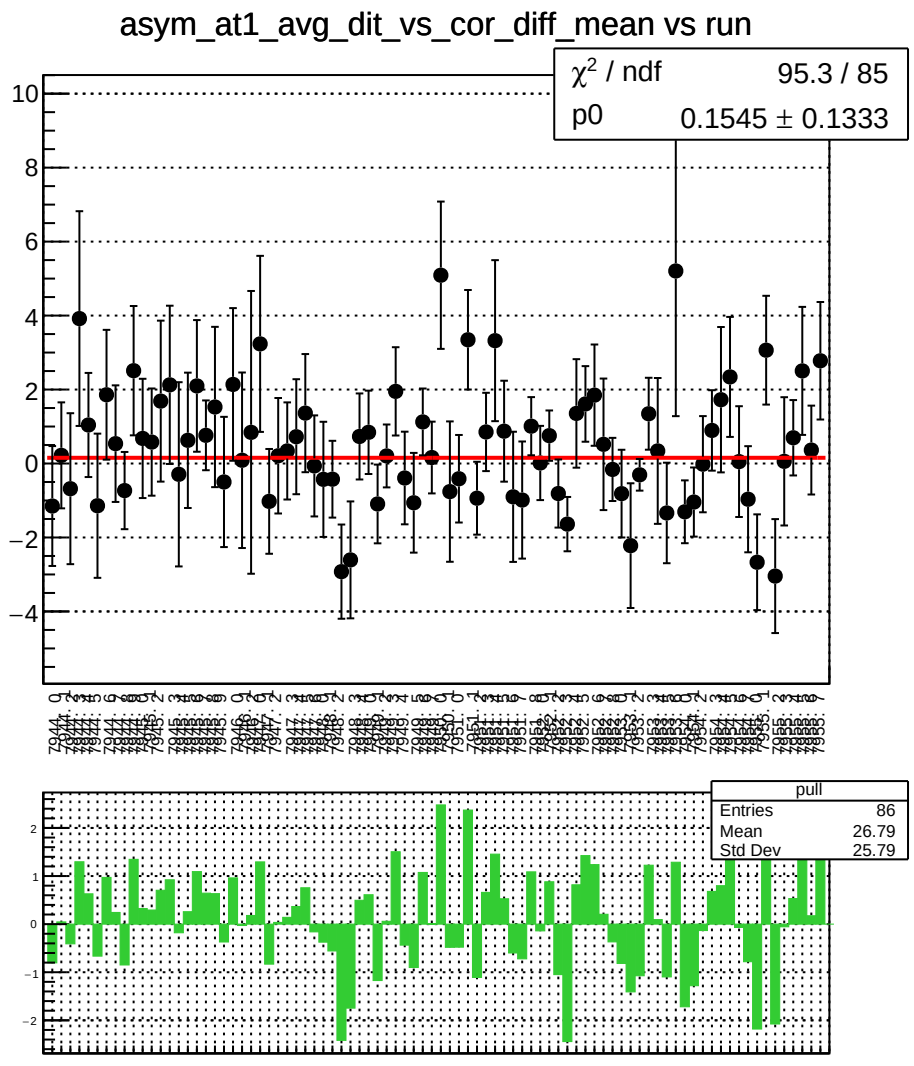

pull1D
Entries 86
Mean 0.002186
Std Dev 0.9165
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

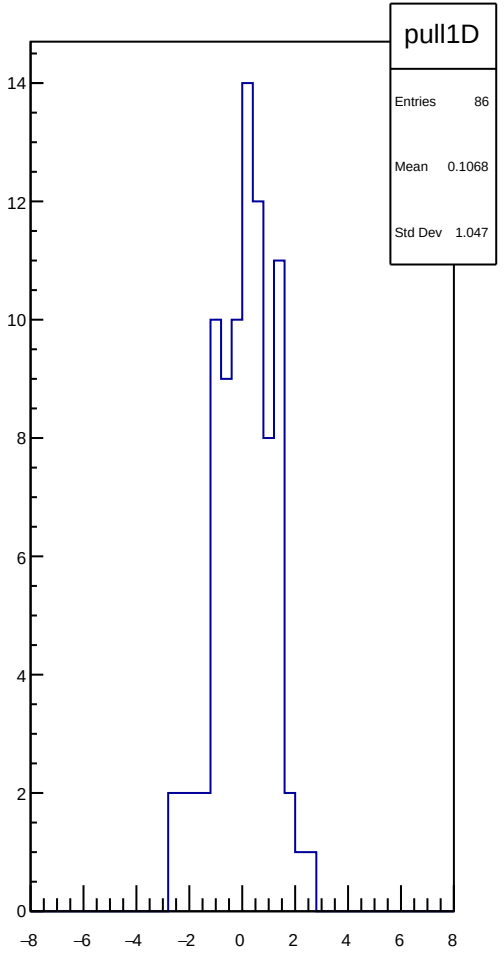

asym_at1_avg_rms vs run
χ² / ndf 900.3 / 85
p0 2081 ± 1.636
2300
2250
2200
2150
2100
2050
2000

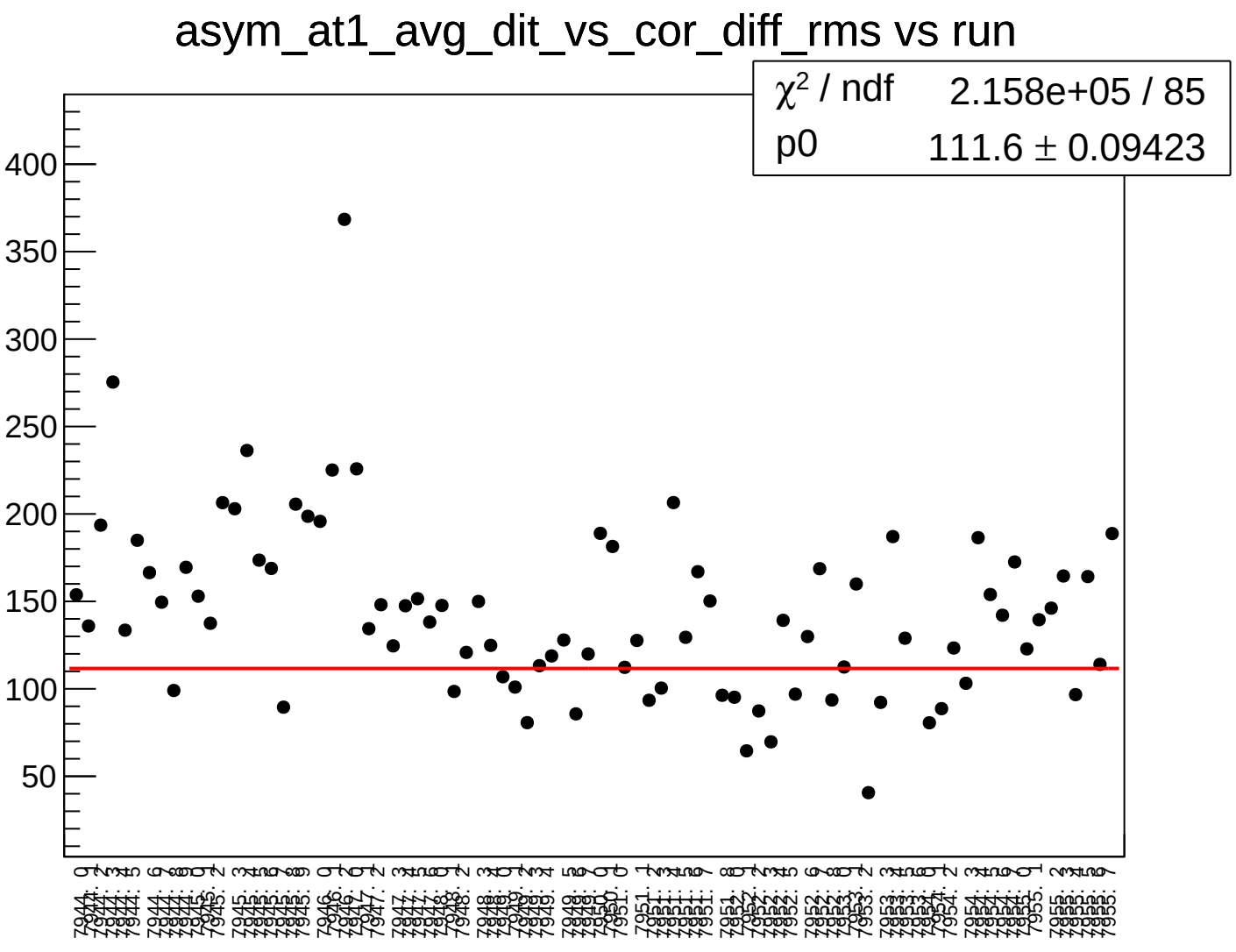

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.7 / 85
p0 −9.188e−14 ± 1.285e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 36.27
Std Dev 25.56
2
1
0
−1
−2
−3
−4

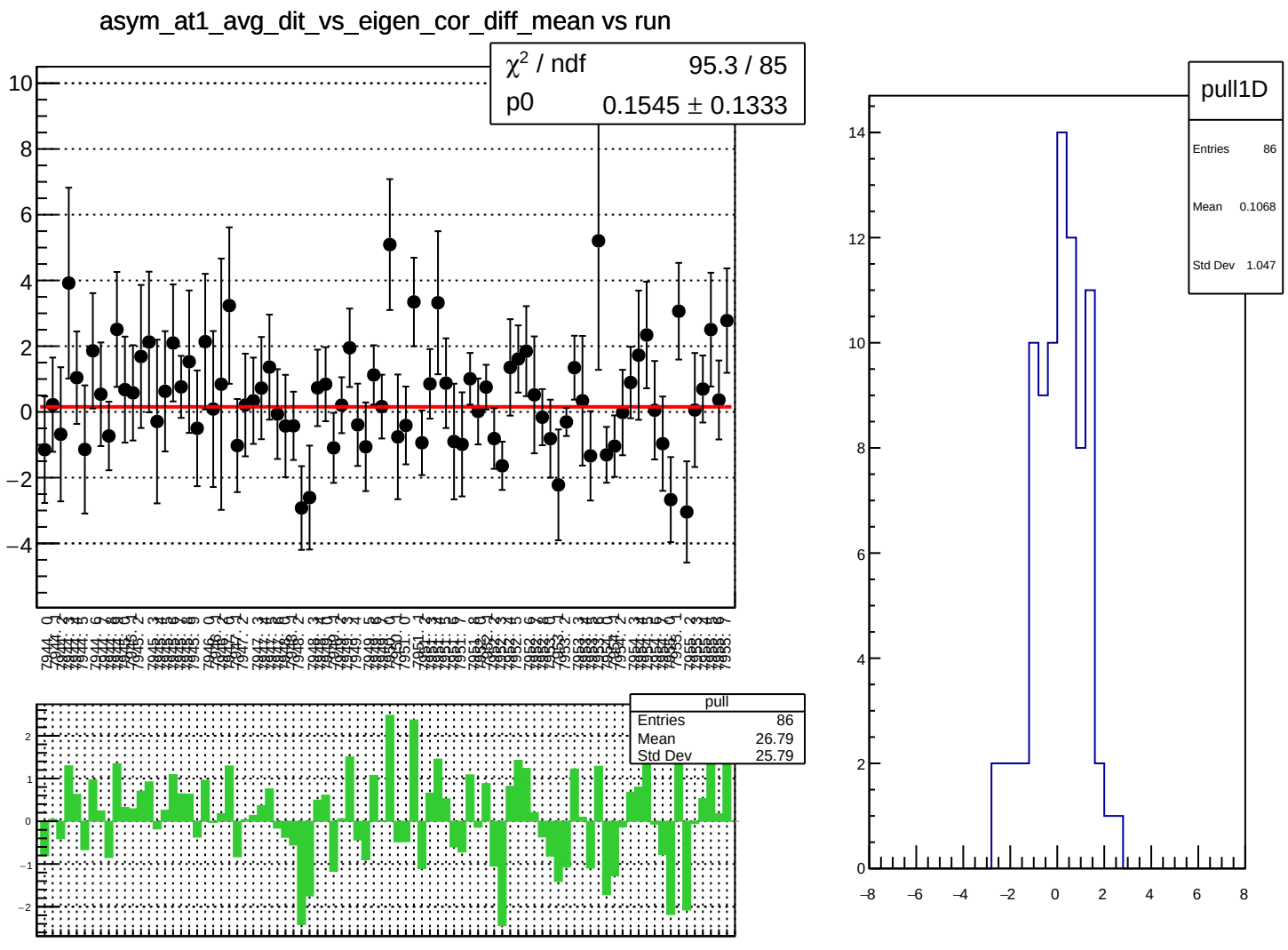

pull1D
Entries 86
Mean −0.1561
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

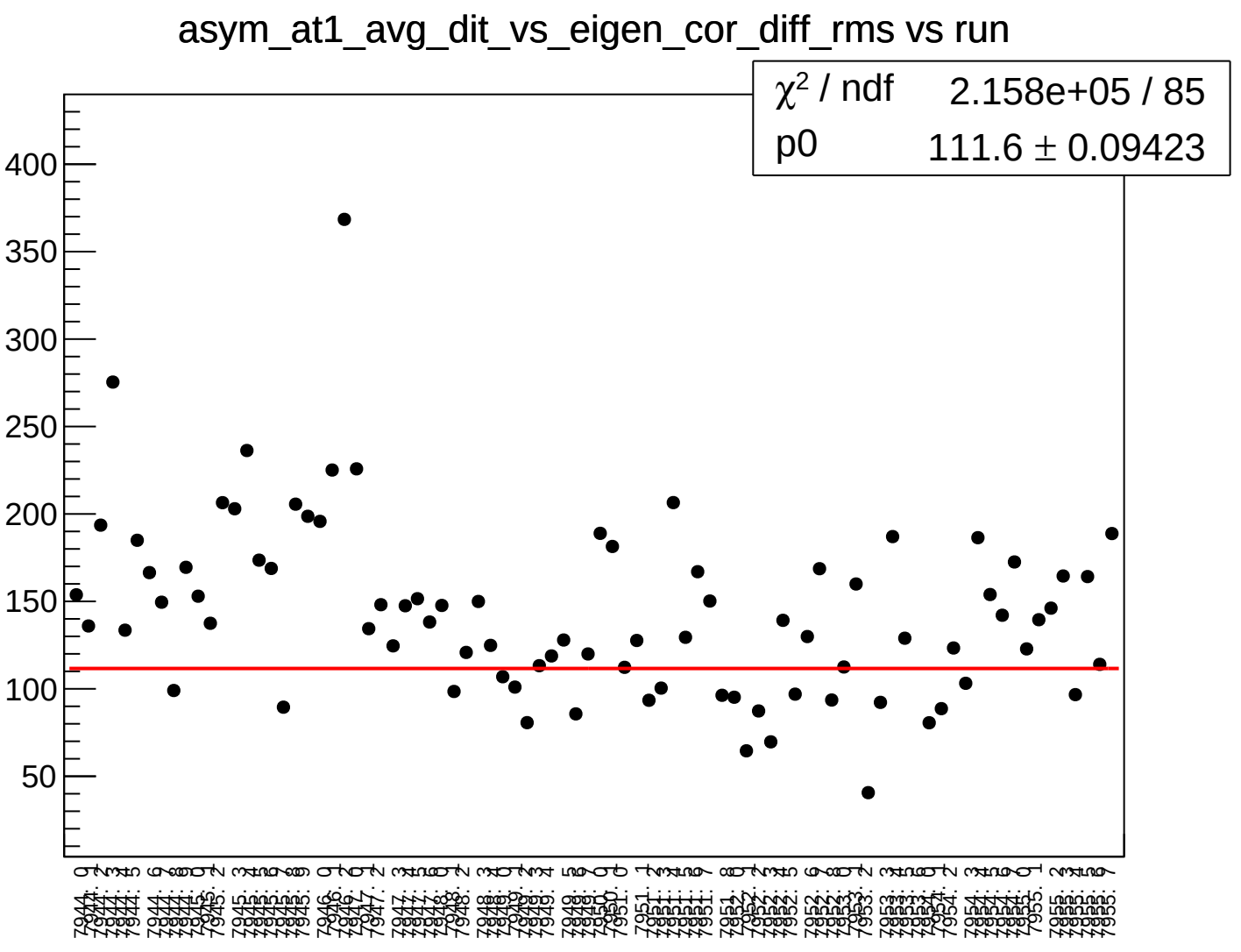

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.03e+06 / 85
p0 6.972e−11 ± 9.086e−14
1.2
1
0.8
0.6
0.4
0.2
0

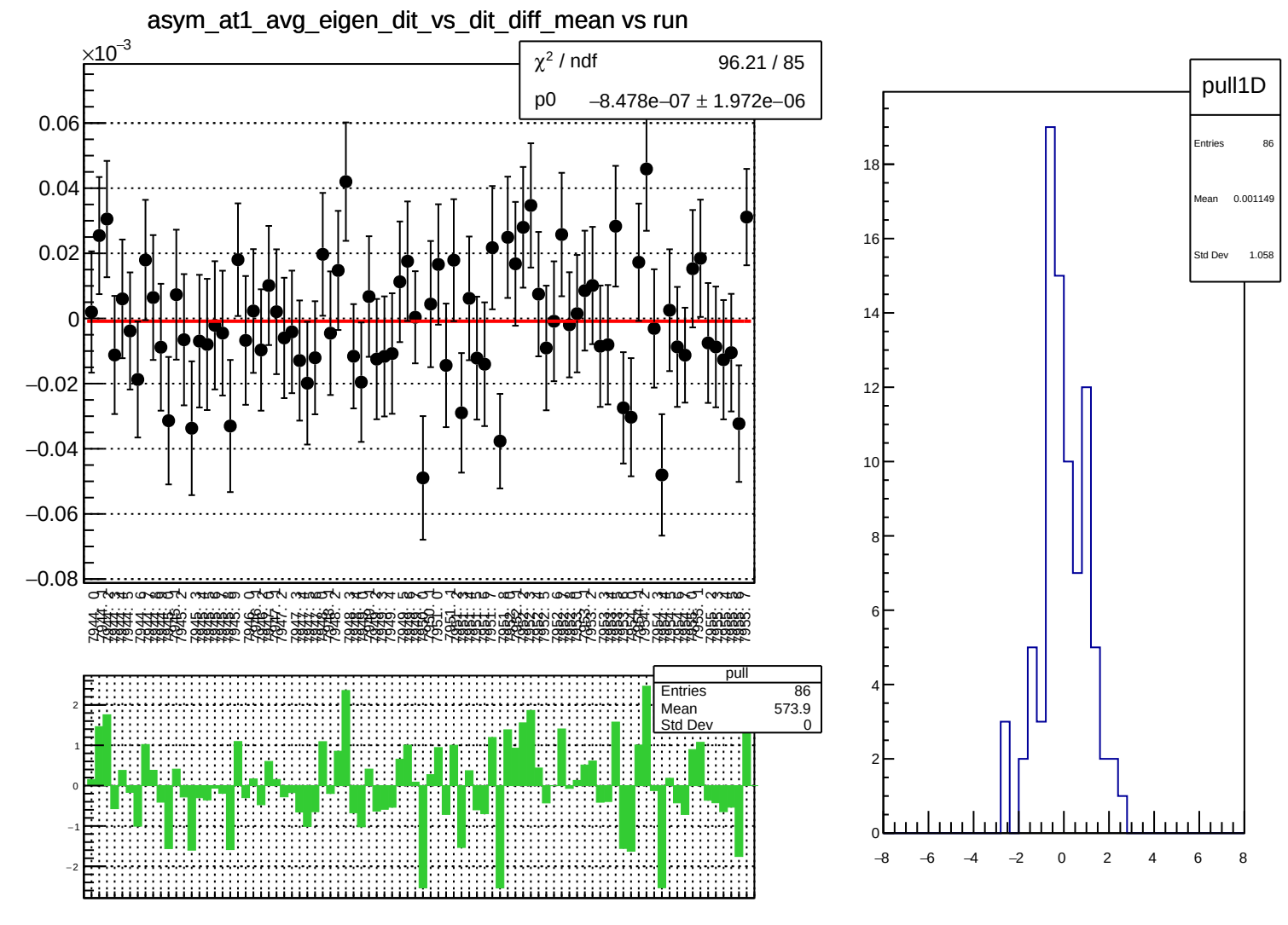

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.3 / 85
p0 0.1545 ± 0.1333
pull
Entries 86
Mean 26.79
Std Dev 25.79

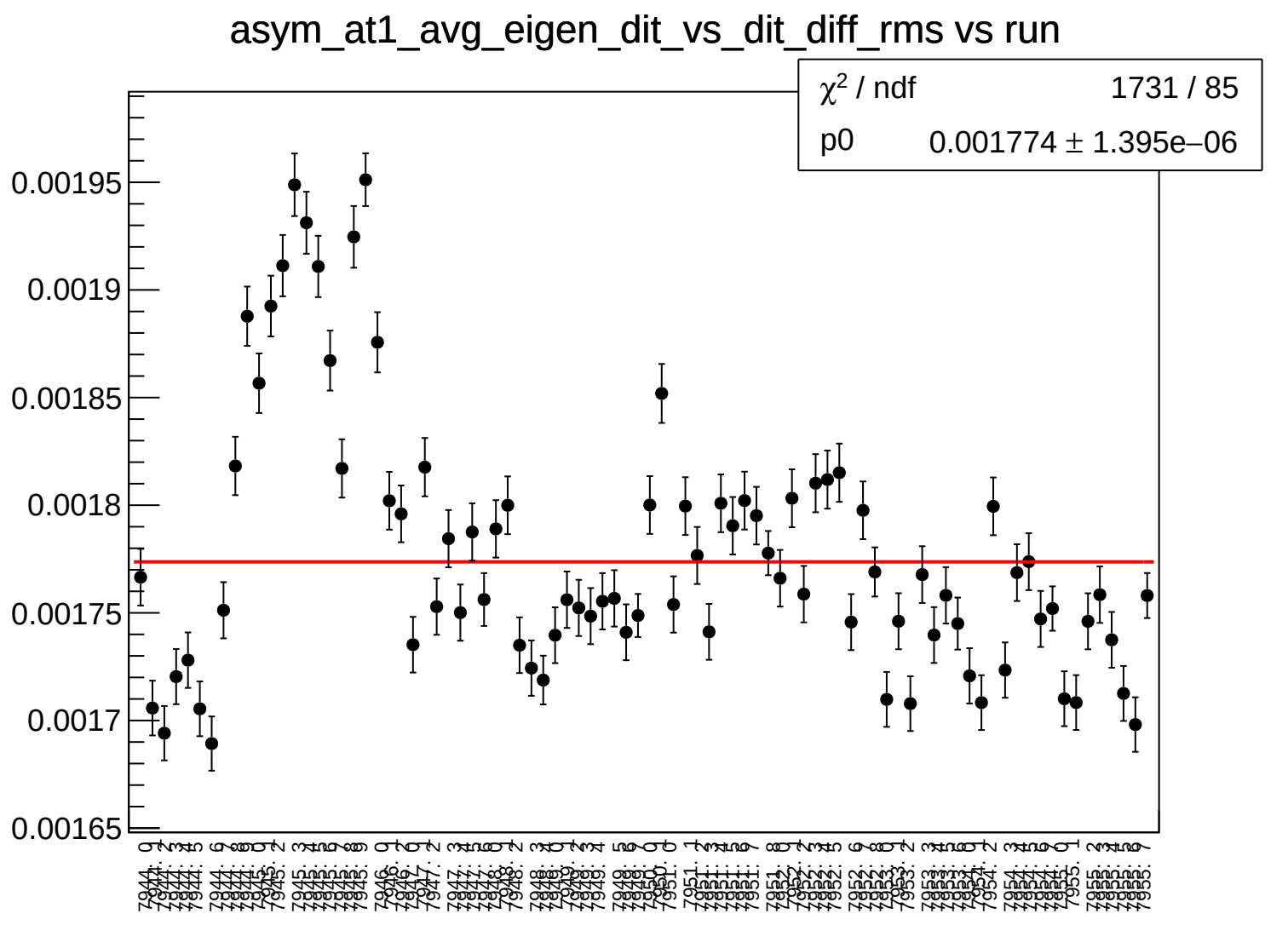

pull1D
Entries 86
Mean 0.1068
Std Dev 1.047

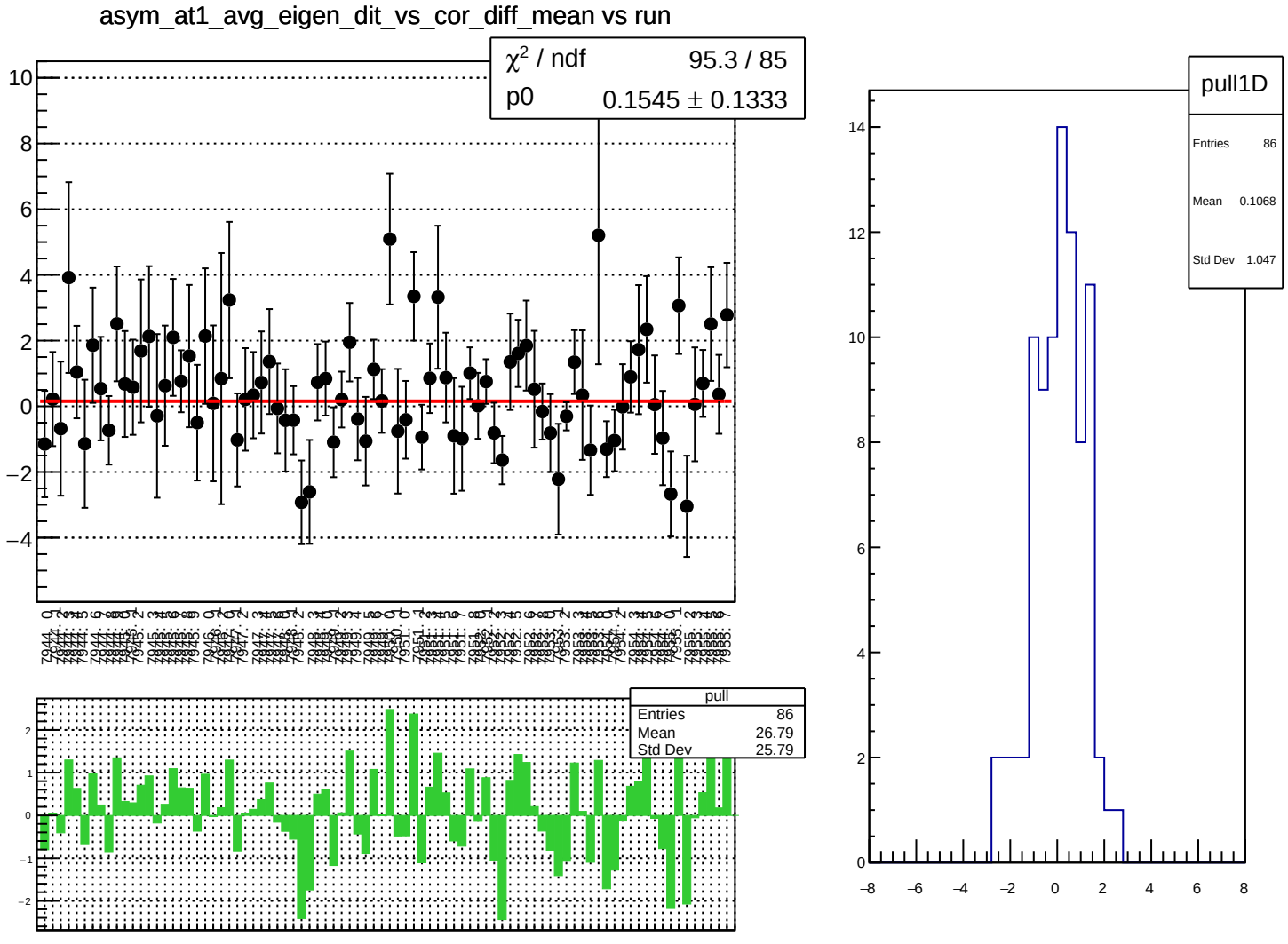

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.158e+05 / 85
p0 111.6 ± 0.09423
400
350
300
250
200
150
100
50

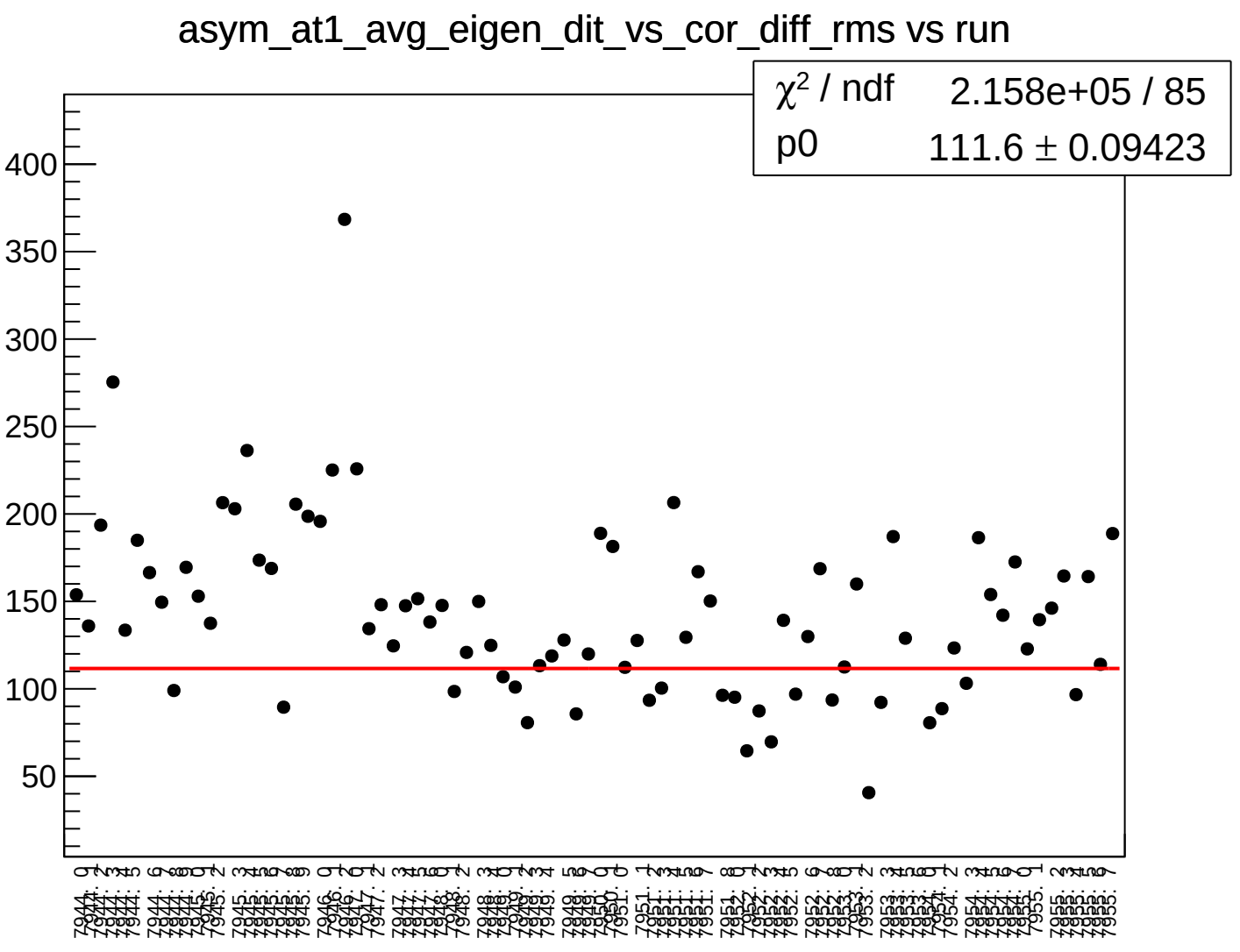

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.3 / 85
p0 0.1545 ± 0.1333
pull
Entries 86
Mean 26.79
Std Dev 25.79
pull1D
Entries 86
Mean 0.1068
Std Dev 1.047

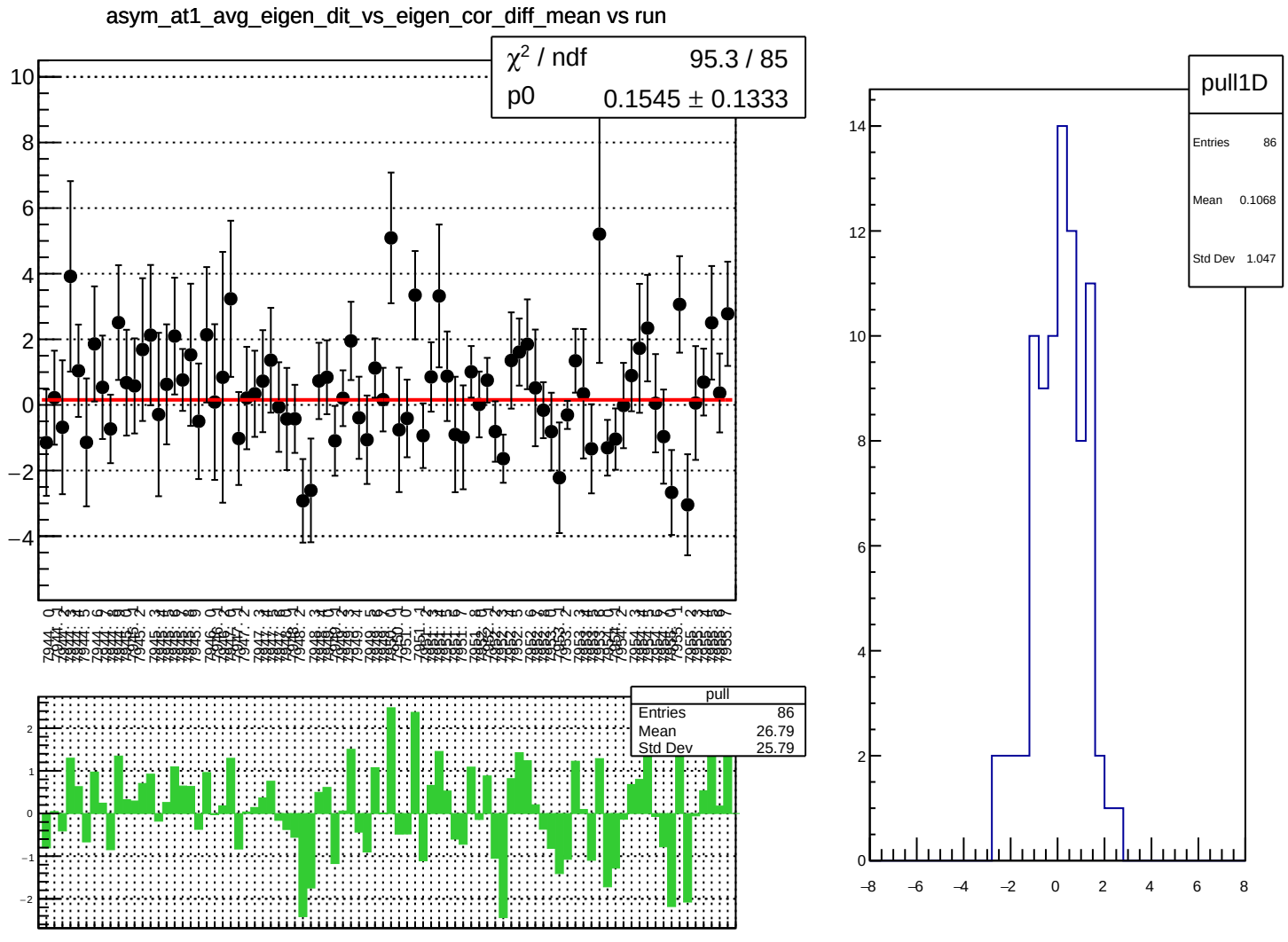

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.158e+05 / 85
p0 111.6 ± 0.09423
400
350
300
250
200
150
100
50

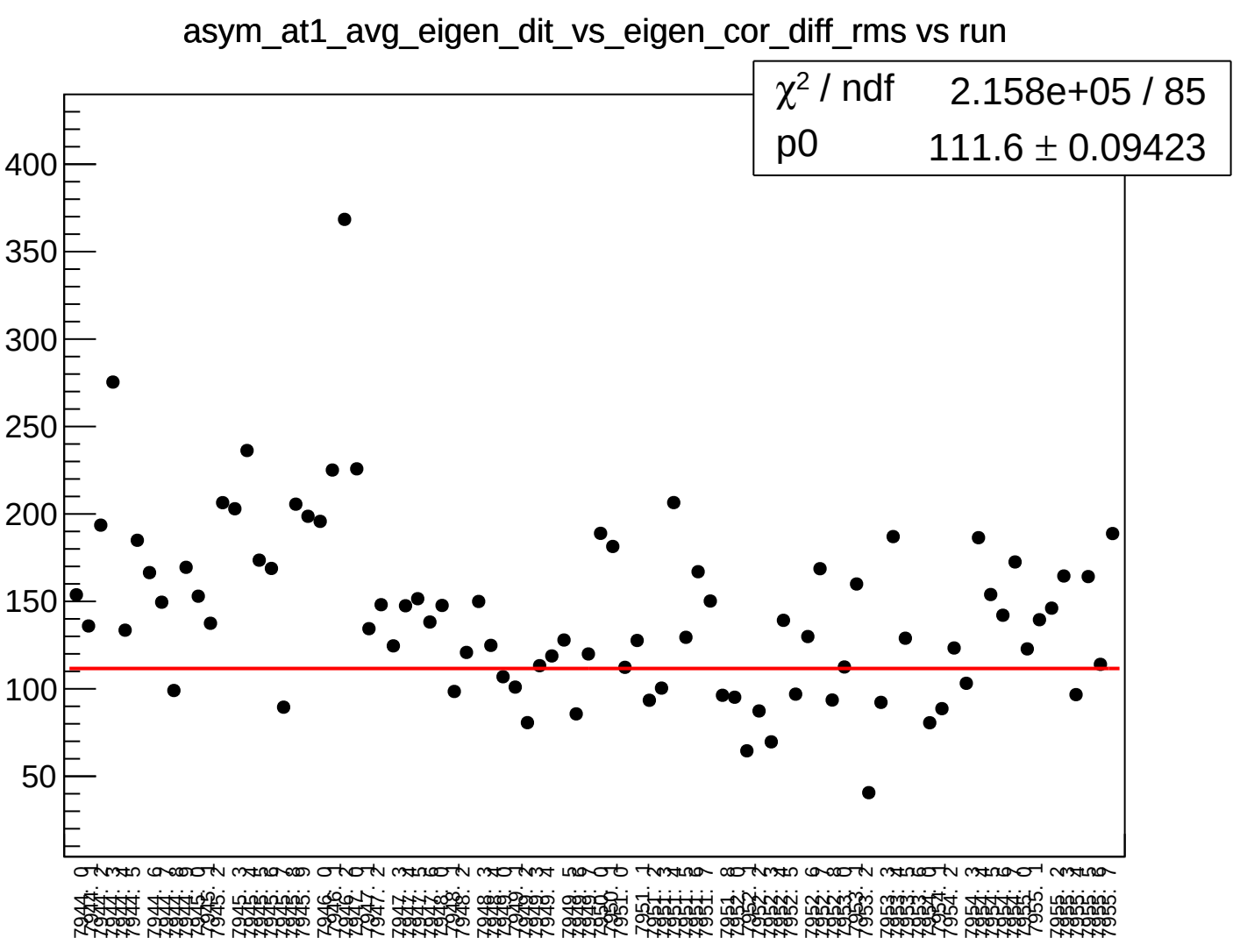

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 96.21 / 85
p0 −8.478e−07 ± 1.972e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean 573.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.001149
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

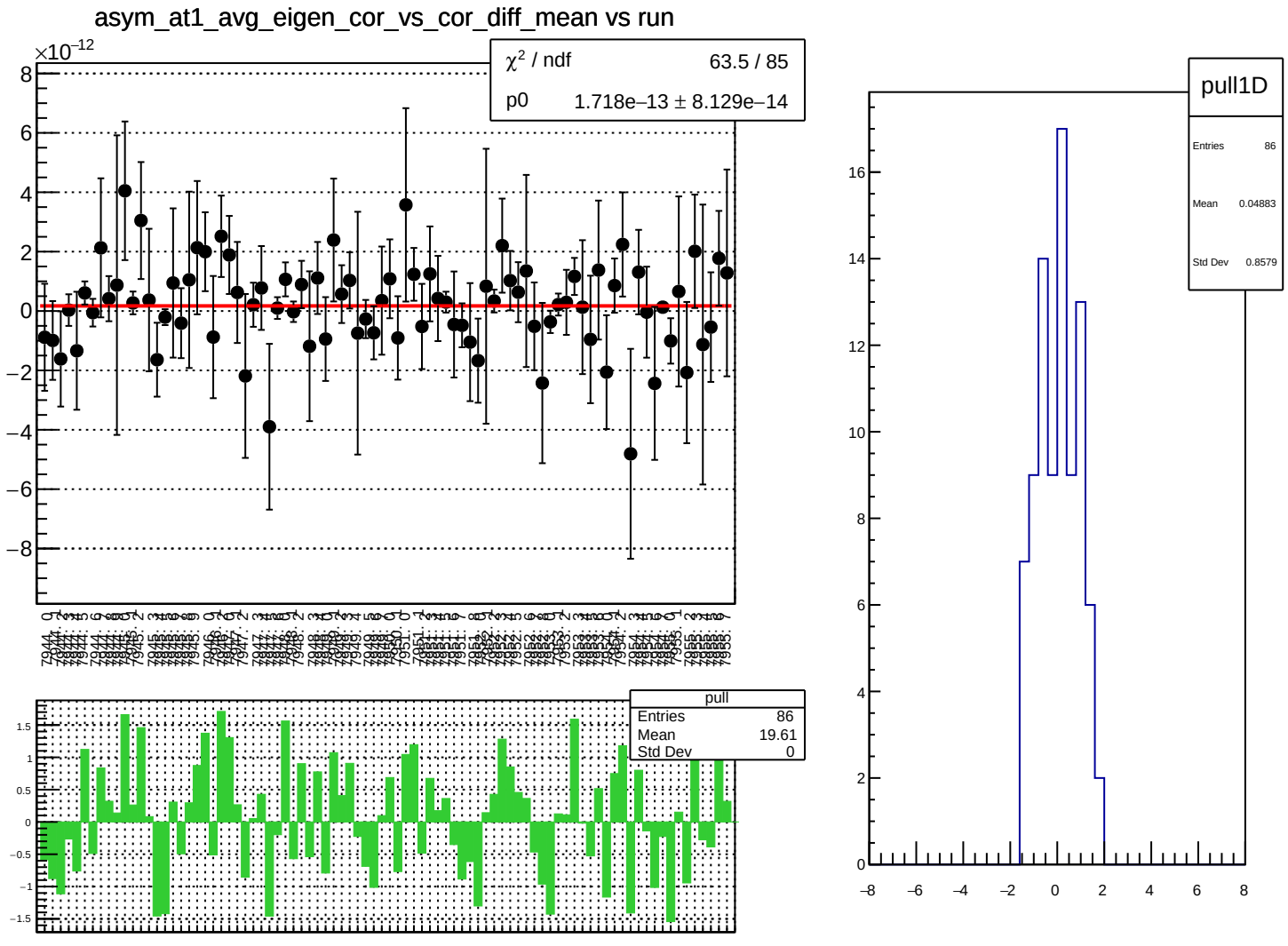

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1731 / 85
p0 0.001774 ± 1.395e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165

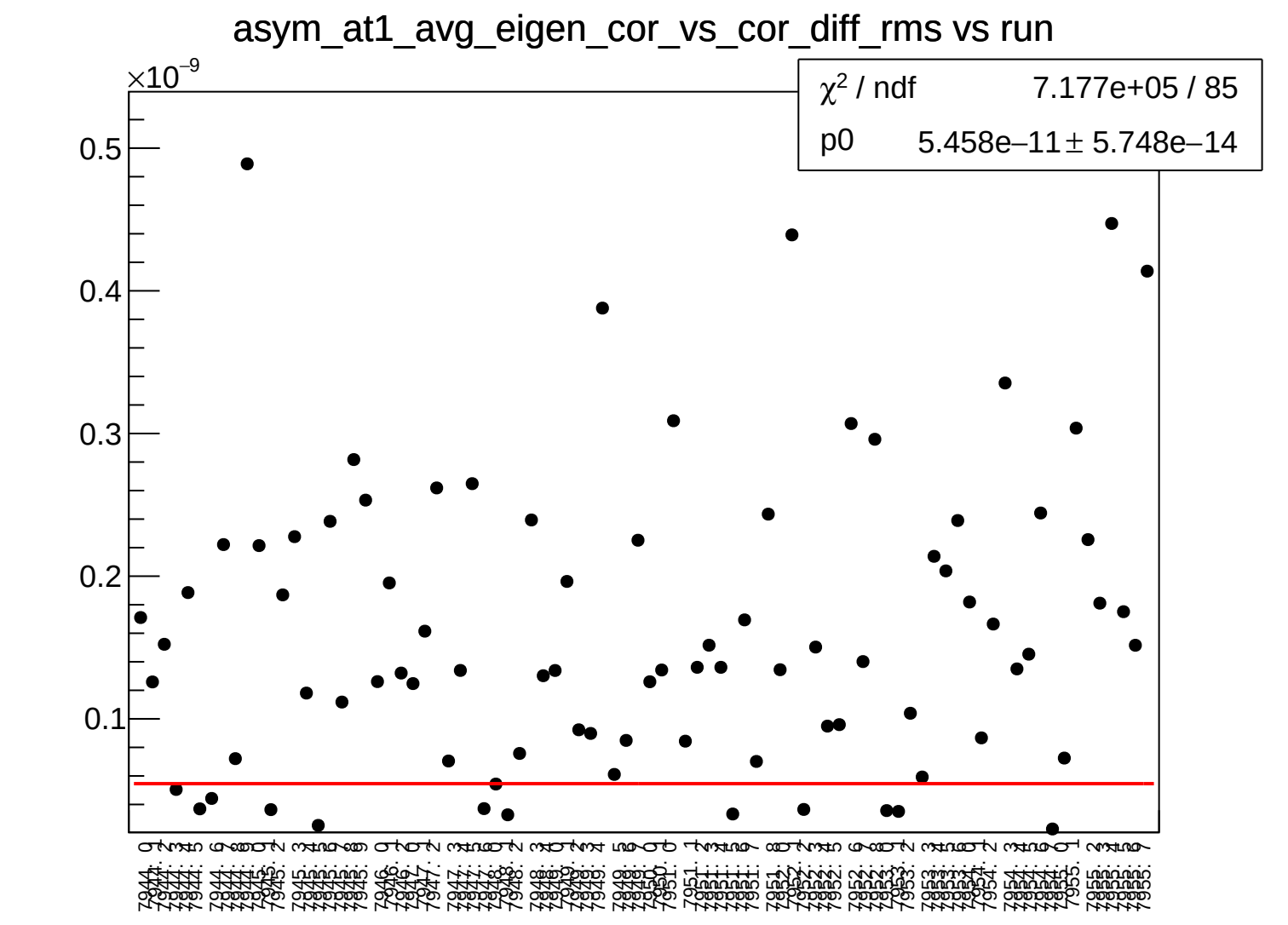

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.3 / 85
p0 0.1545 ± 0.1333
pull
Entries 86
Mean 26.79
Std Dev 25.79
pull1D
Entries 86
Mean 0.1068
Std Dev 1.047

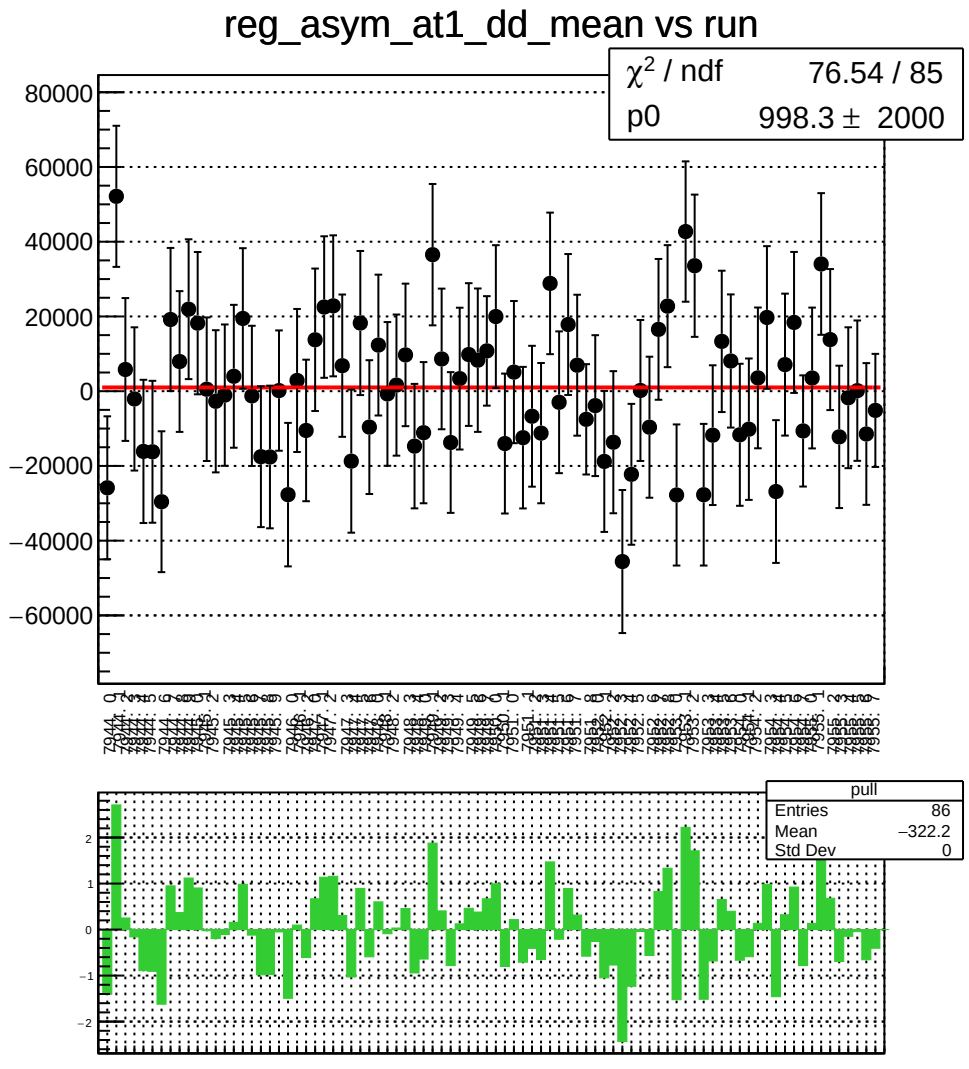

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.158e+05 / 85
p0 111.6 ± 0.09423
400
350
300
250
200
150
100
50

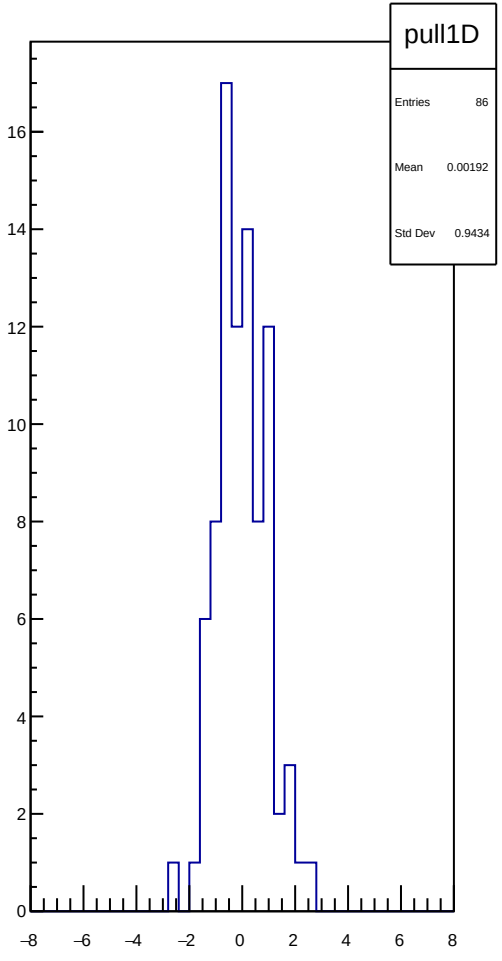

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.3 / 85
p0 0.1545 ± 0.1333
pull
Entries 86
Mean 26.79
Std Dev 25.79
pull1D
Entries 86
Mean 0.1068
Std Dev 1.047

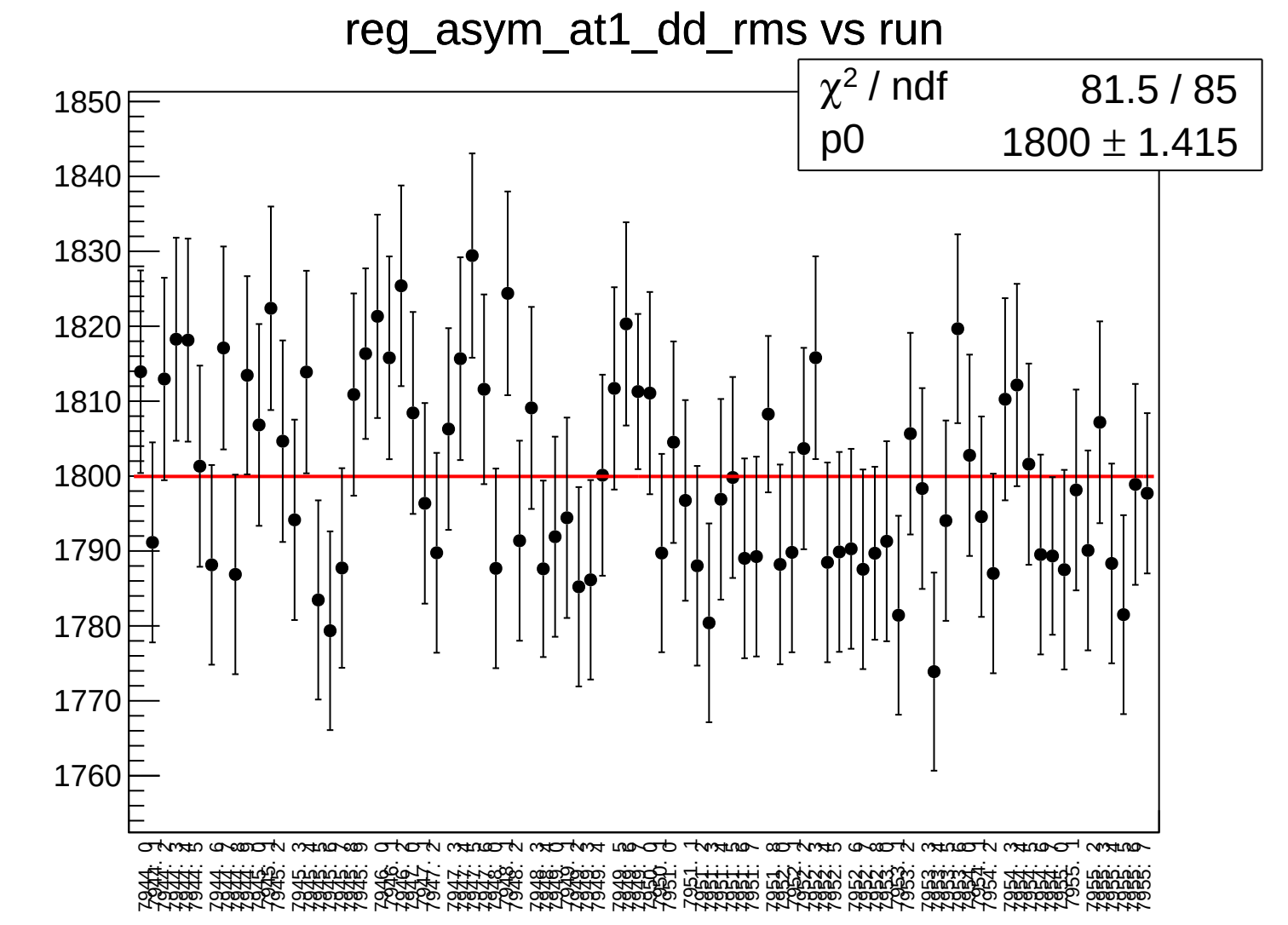

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.158e+05 / 85
p0 111.6 ± 0.09423
400
350
300
250
200
150
100
50

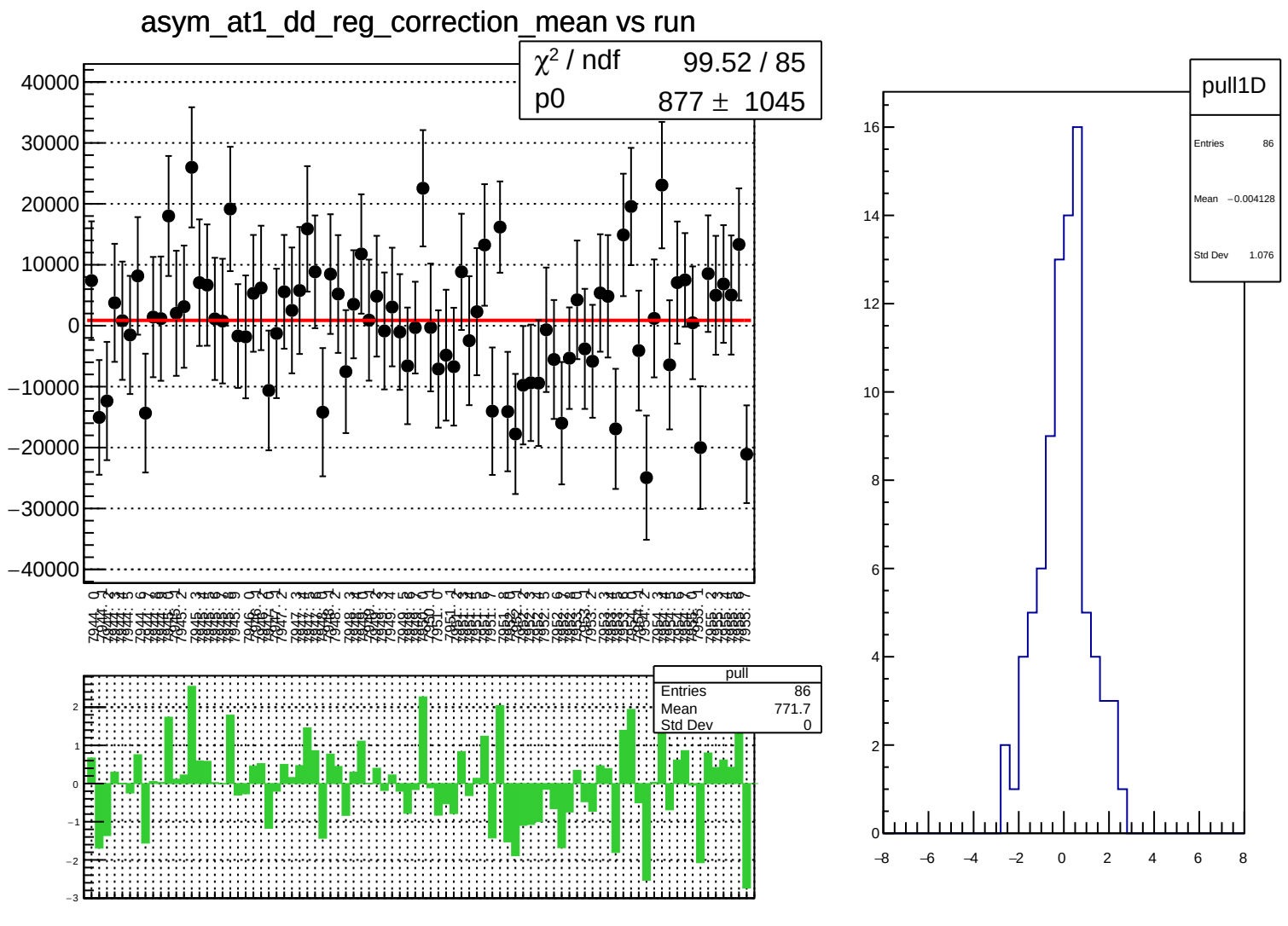

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.5 / 85
p0 1.718e−13 ± 8.129e−14
pull
Entries 86
Mean 19.61
Std Dev 0
pull1D
Entries 86
Mean 0.04883
Std Dev 0.8579

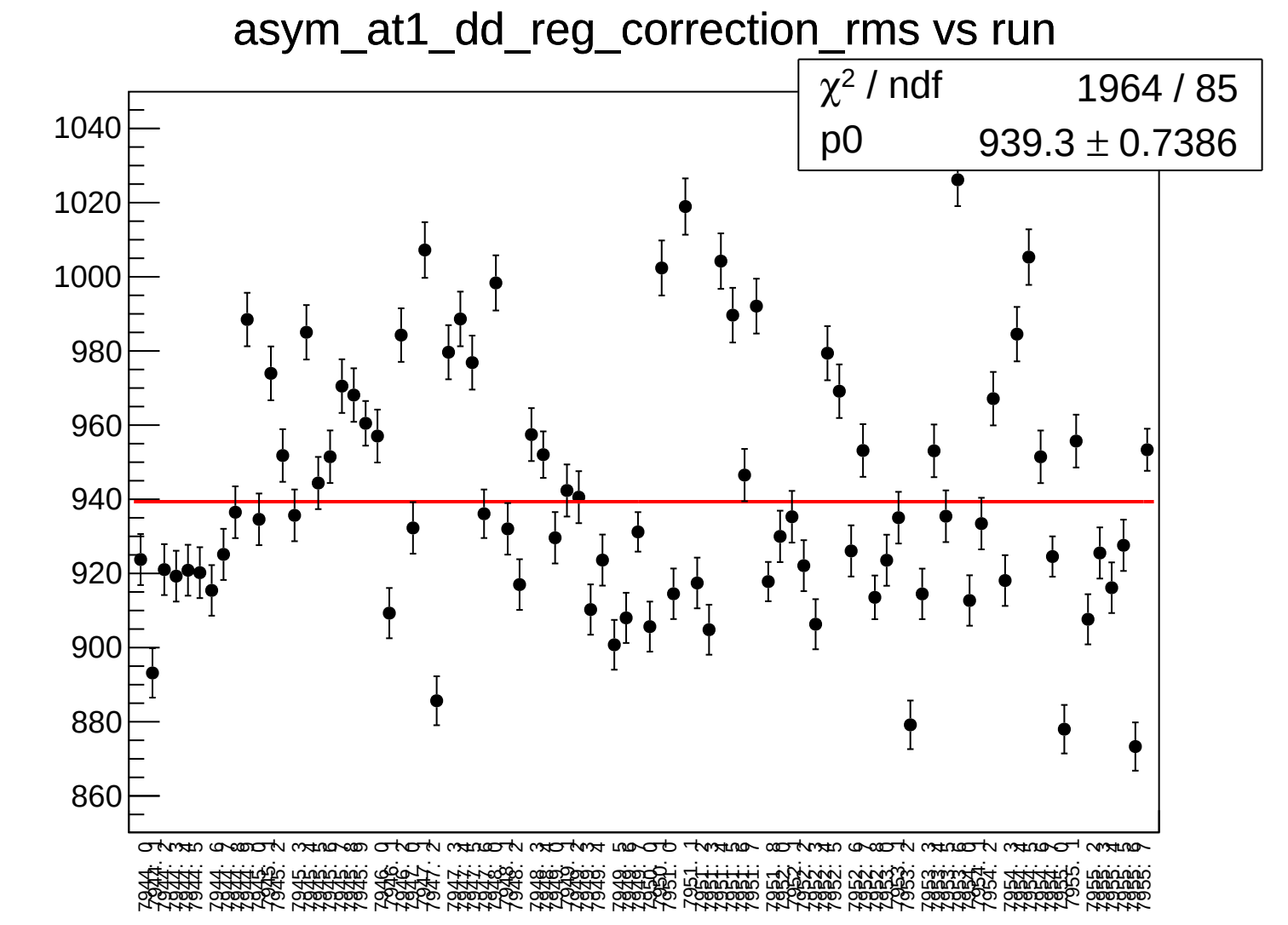

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.177e+05 / 85
p0 5.458e−11 ± 5.748e−14
0.5
0.4
0.3
0.2
0.1

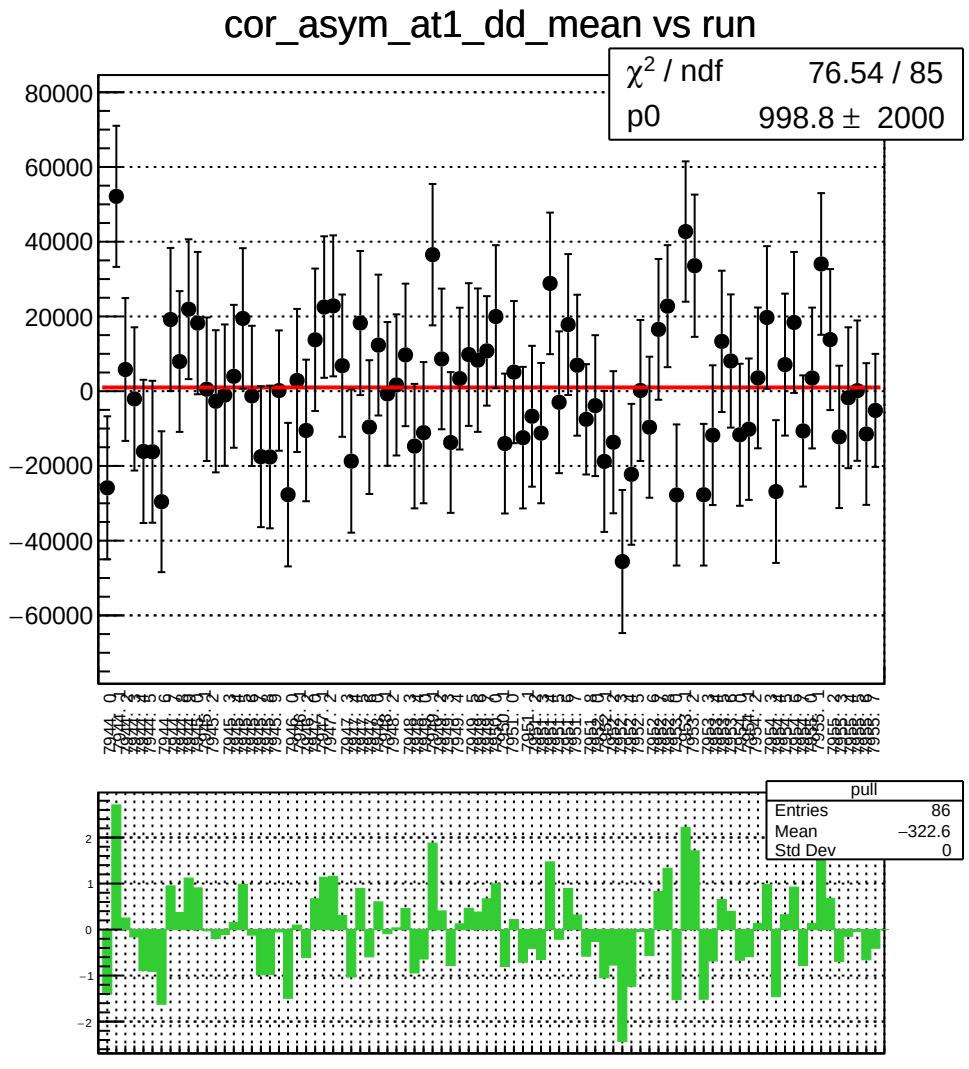

reg_asym_at1_dd_mean vs run
χ² / ndf 76.54 / 85
p0 998.3 ± 2000
pull
Entries 86
Mean −322.2
Std Dev 0

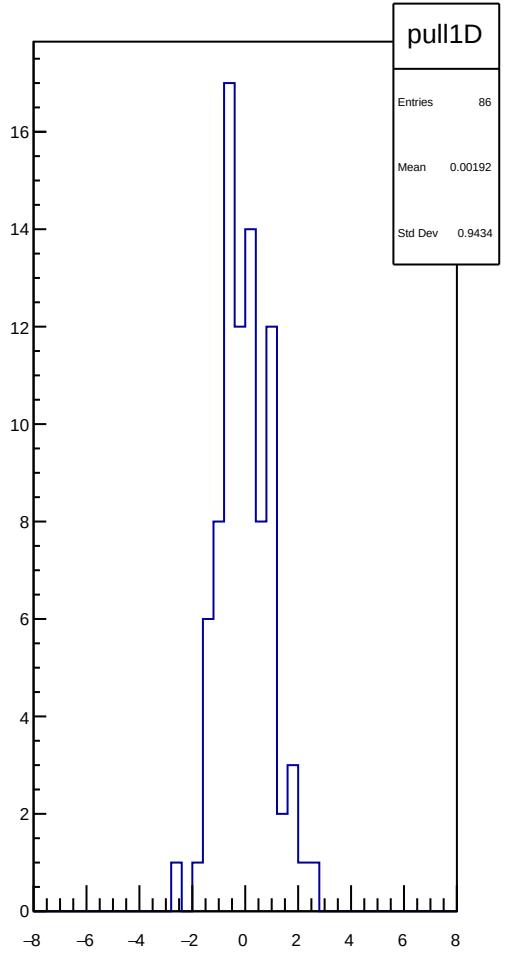

pull1D
Entries 86
Mean 0.00192
Std Dev 0.9434

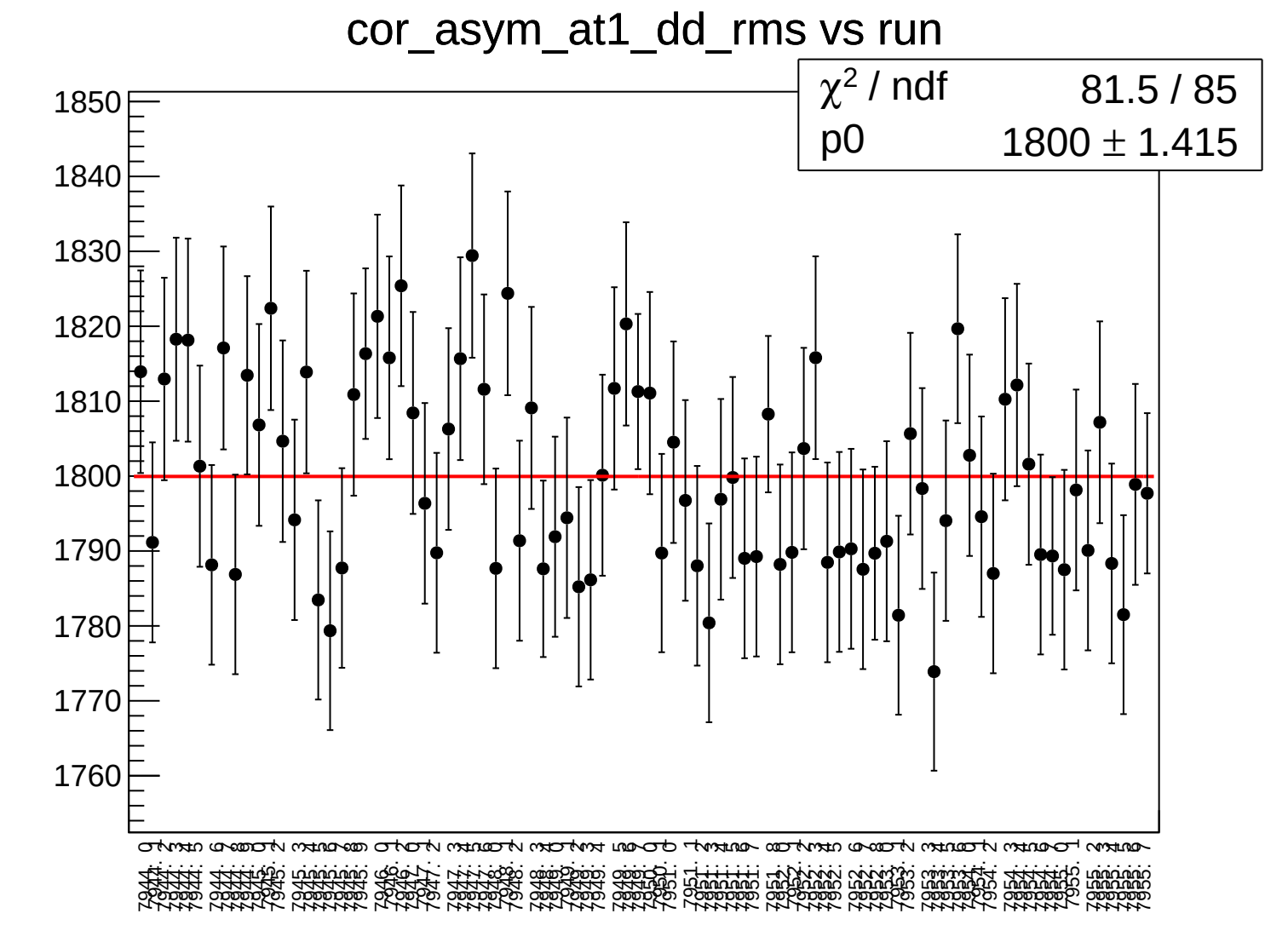

reg_asym_at1_dd_rms vs run
χ² / ndf 81.5 / 85
p0 1800 ± 1.415
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

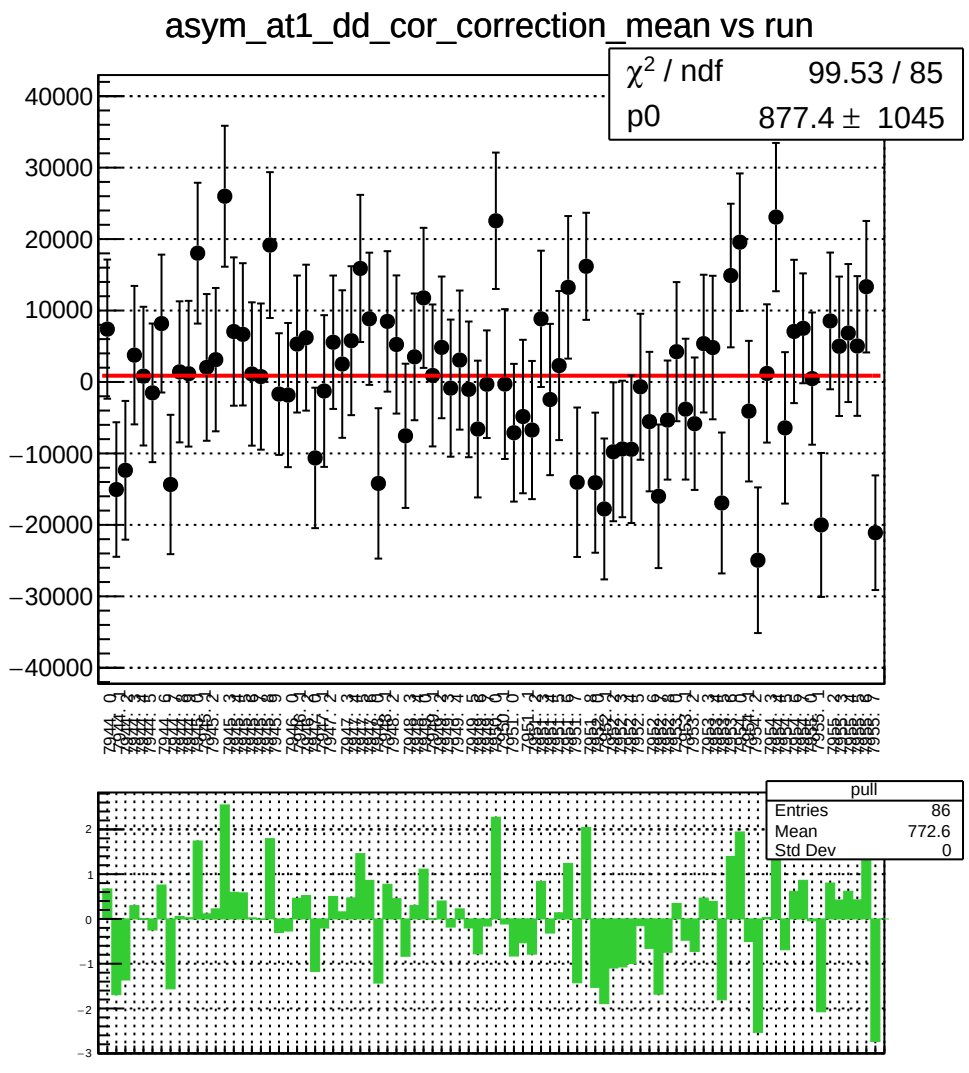

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 99.52 / 85
p0 877 ± 1045
pull
Entries 86
Mean 771.7
Std Dev 0
pull1D
Entries 86
Mean −0.004128
Std Dev 1.076

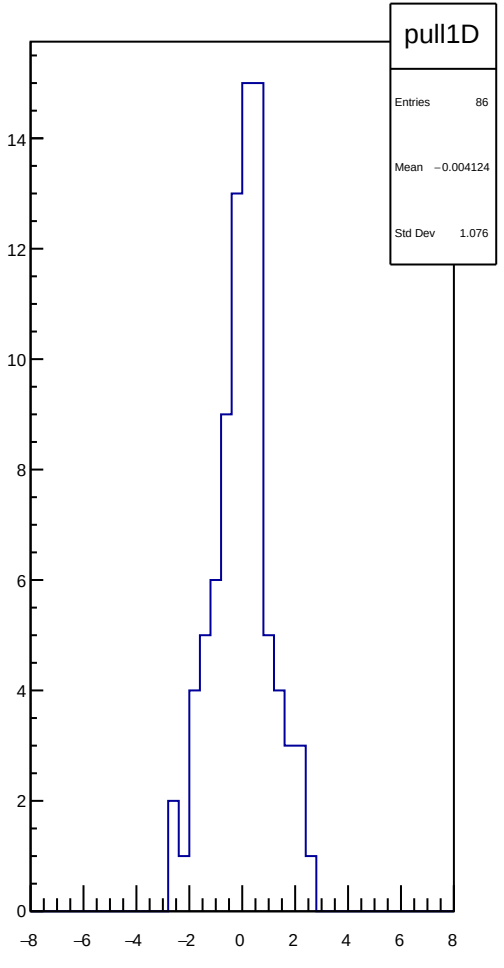

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1964 / 85
p0 939.3 ± 0.7386
1040
1020
1000
980
960
940
920
900
880
860

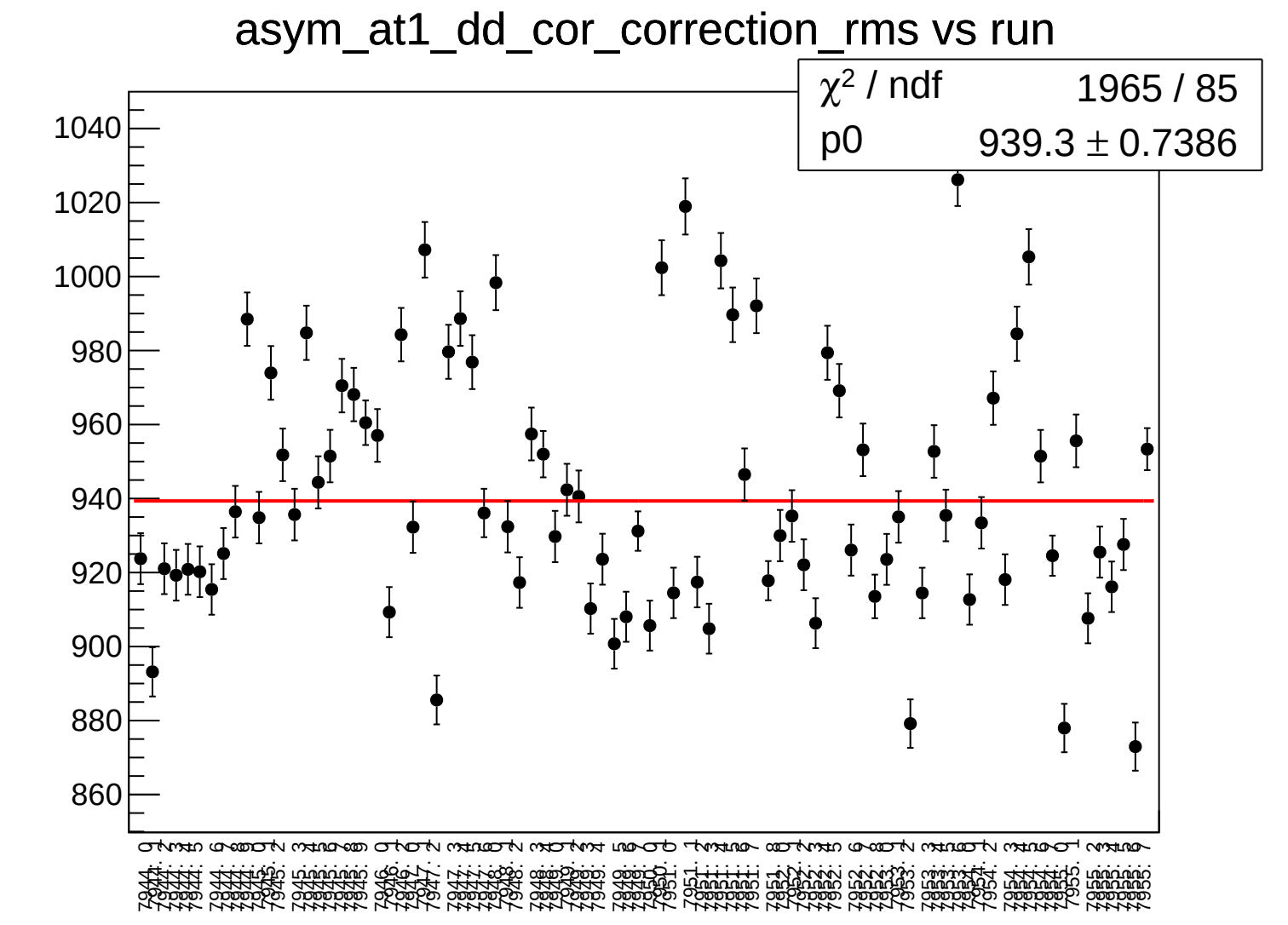

cor_asym_at1_dd_mean vs run
χ² / ndf 76.54 / 85
p0 998.8 ± 2000
pull
Entries 86
Mean −322.6
Std Dev 0

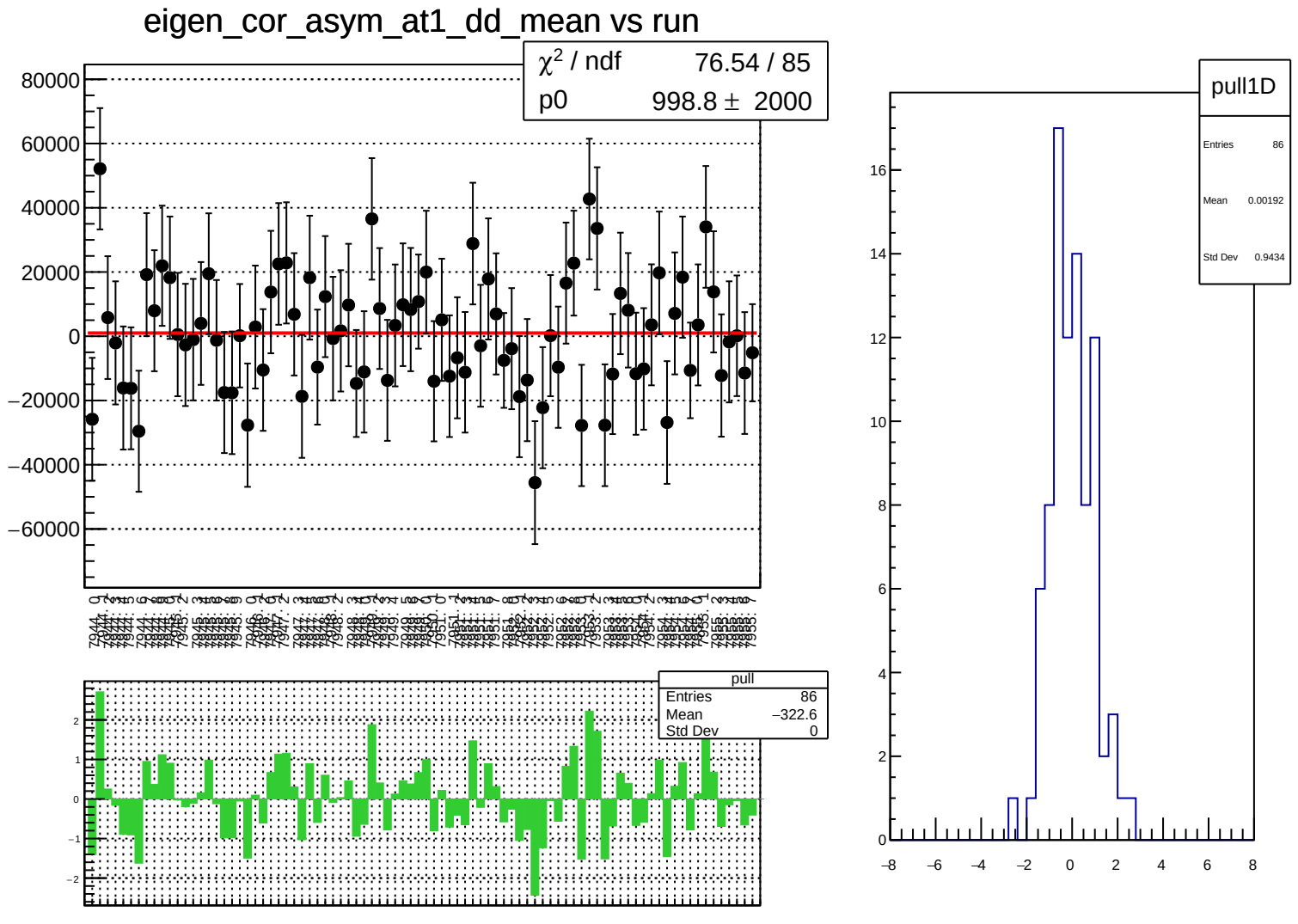

pull1D
Entries 86
Mean 0.00192
Std Dev 0.9434

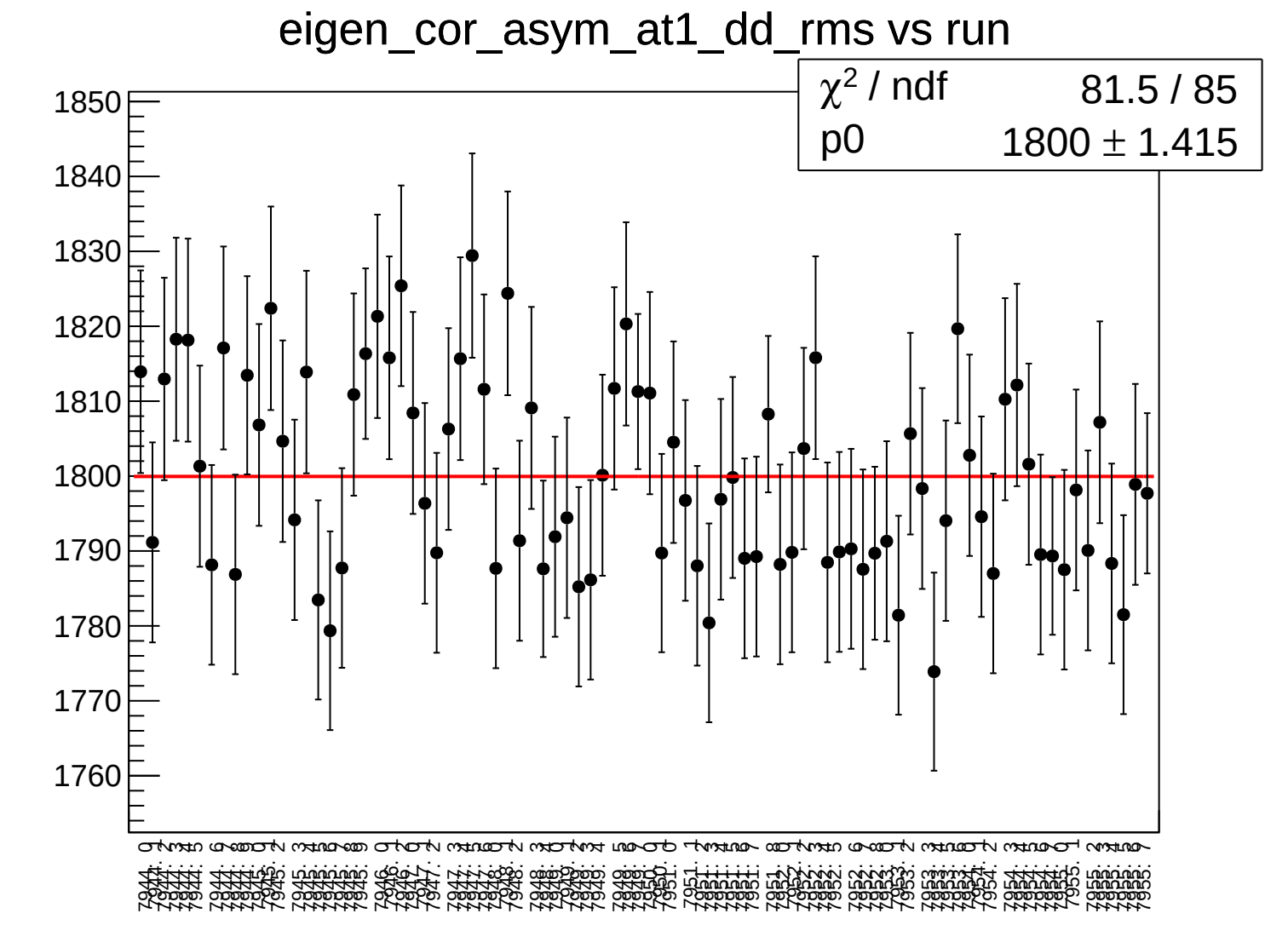

cor_asym_at1_dd_rms vs run
χ^2 / ndf 81.5 / 85
p0 1800 ± 1.415
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

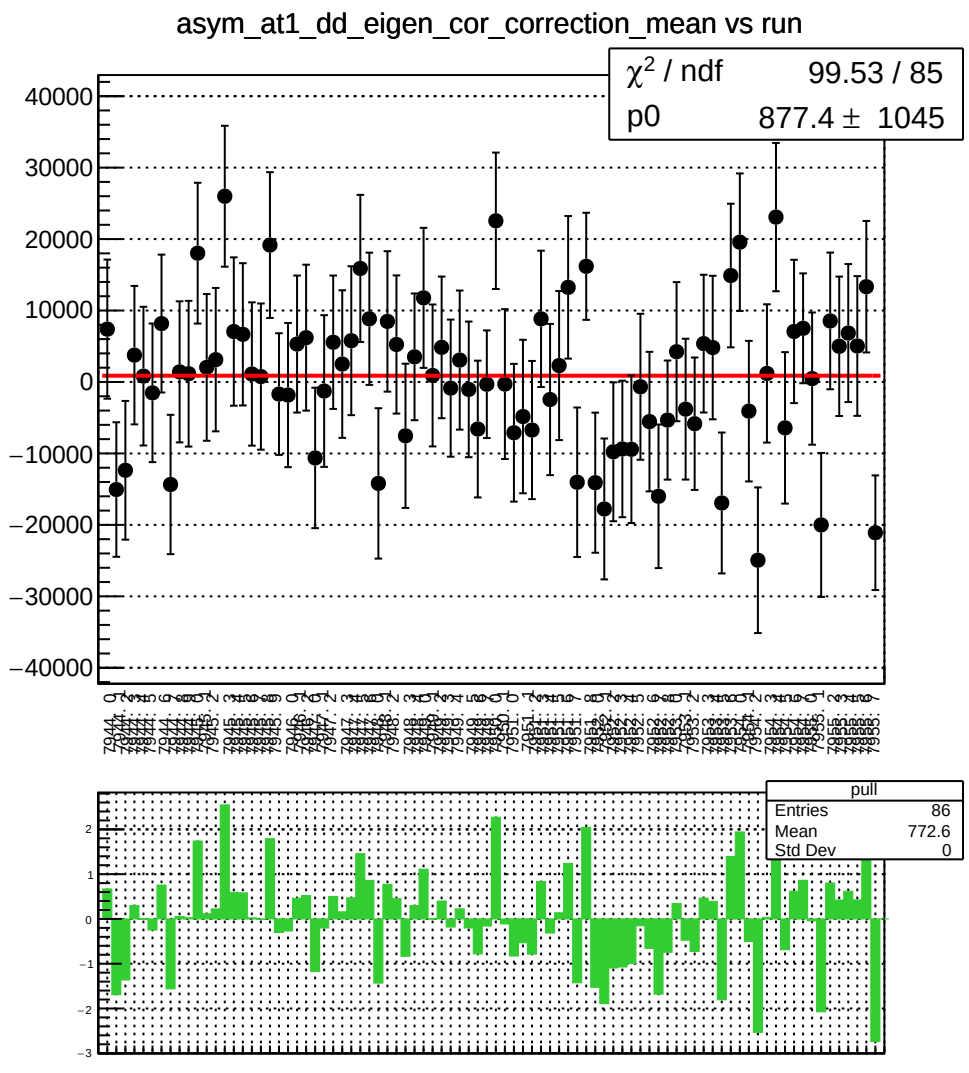

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 99.53 / 85
p0 877.4 ± 1045
pull
Entries 86
Mean 772.6
Std Dev 0

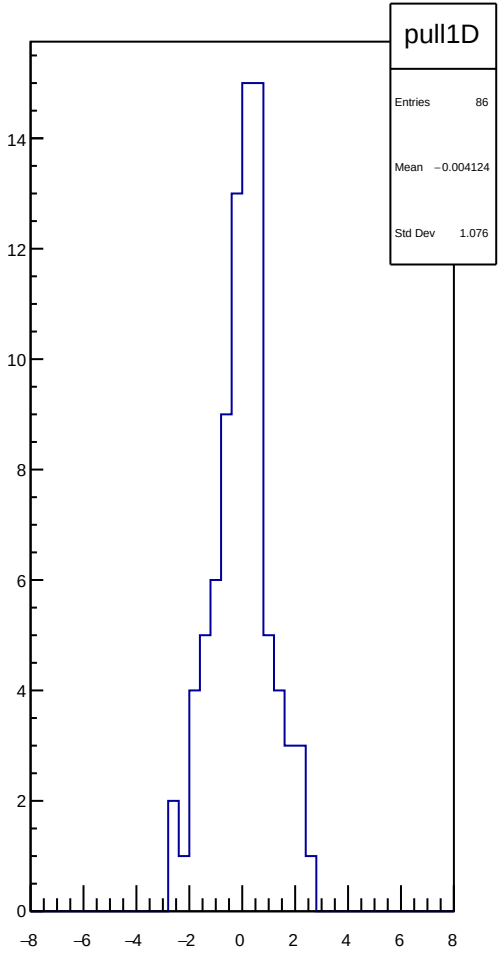

pull1D
Entries 86
Mean −0.004124
Std Dev 1.076

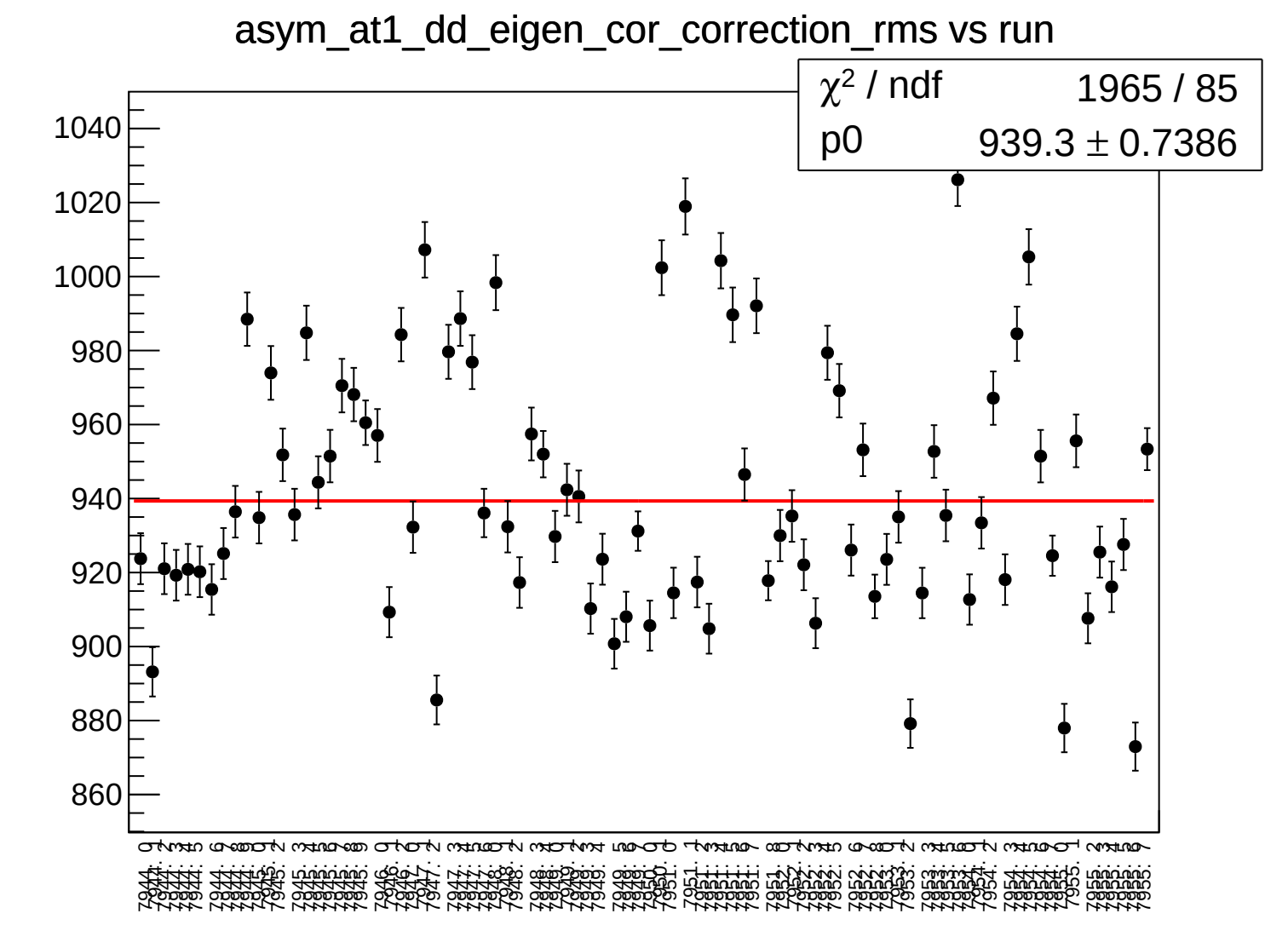

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1965 / 85
p0 939.3 ± 0.7386
1040
1020
1000
980
960
940
920
900
880
860

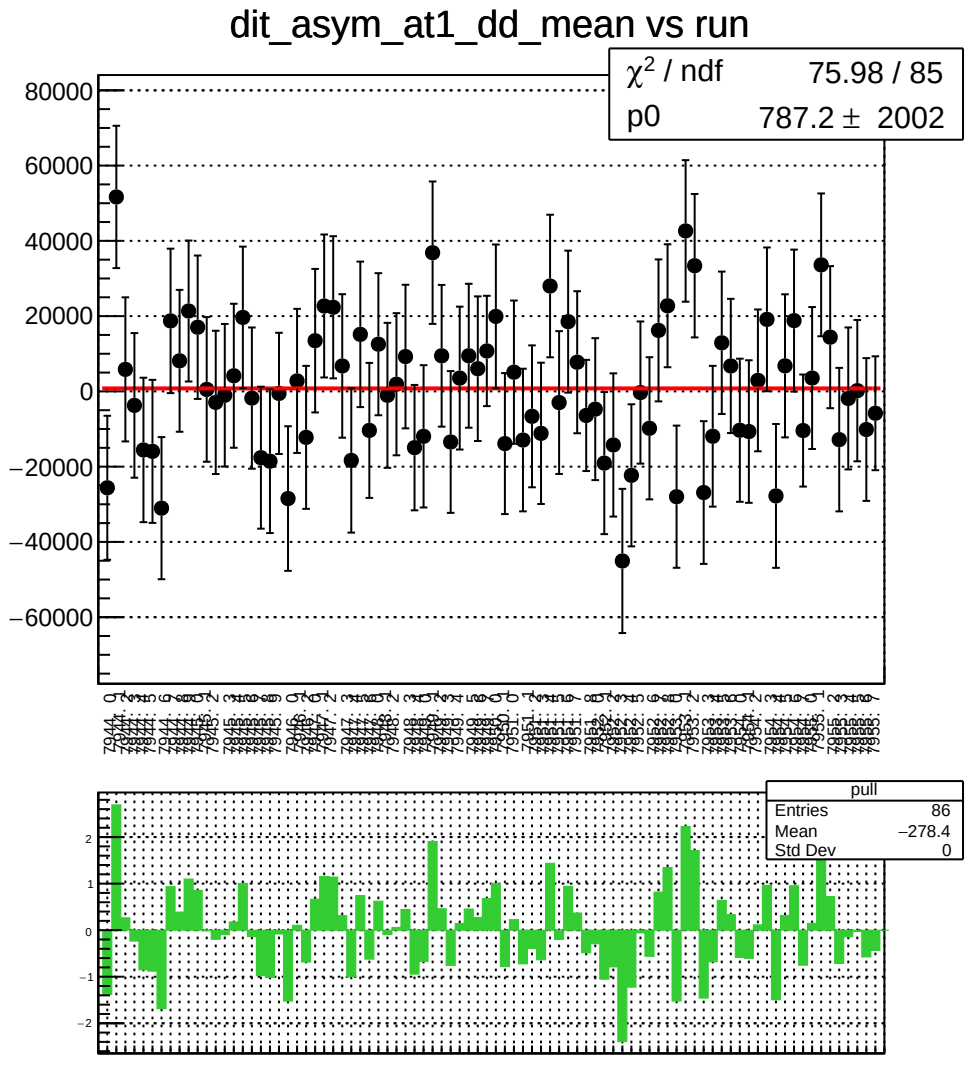

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 76.54 / 85
p0 998.8 ± 2000
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −322.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.00192
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

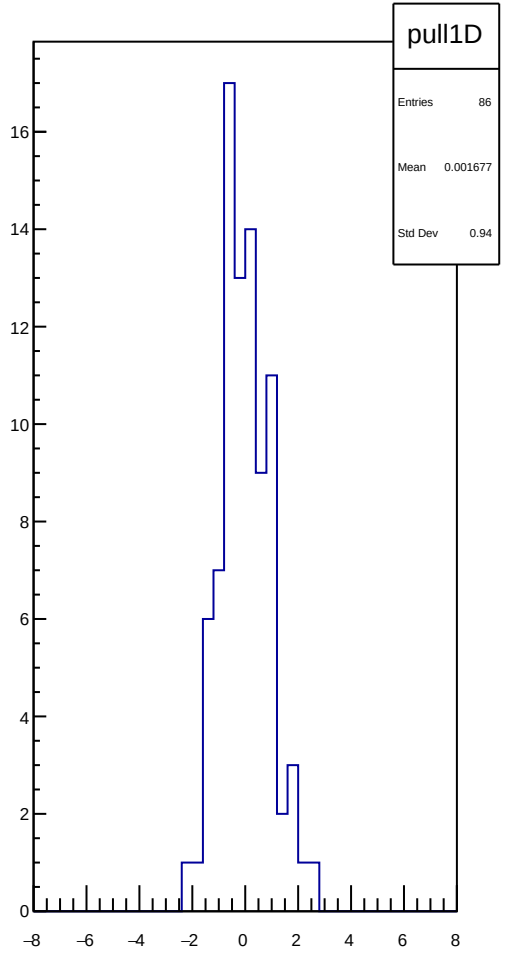

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 81.5 / 85
p0 1800 ± 1.415
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

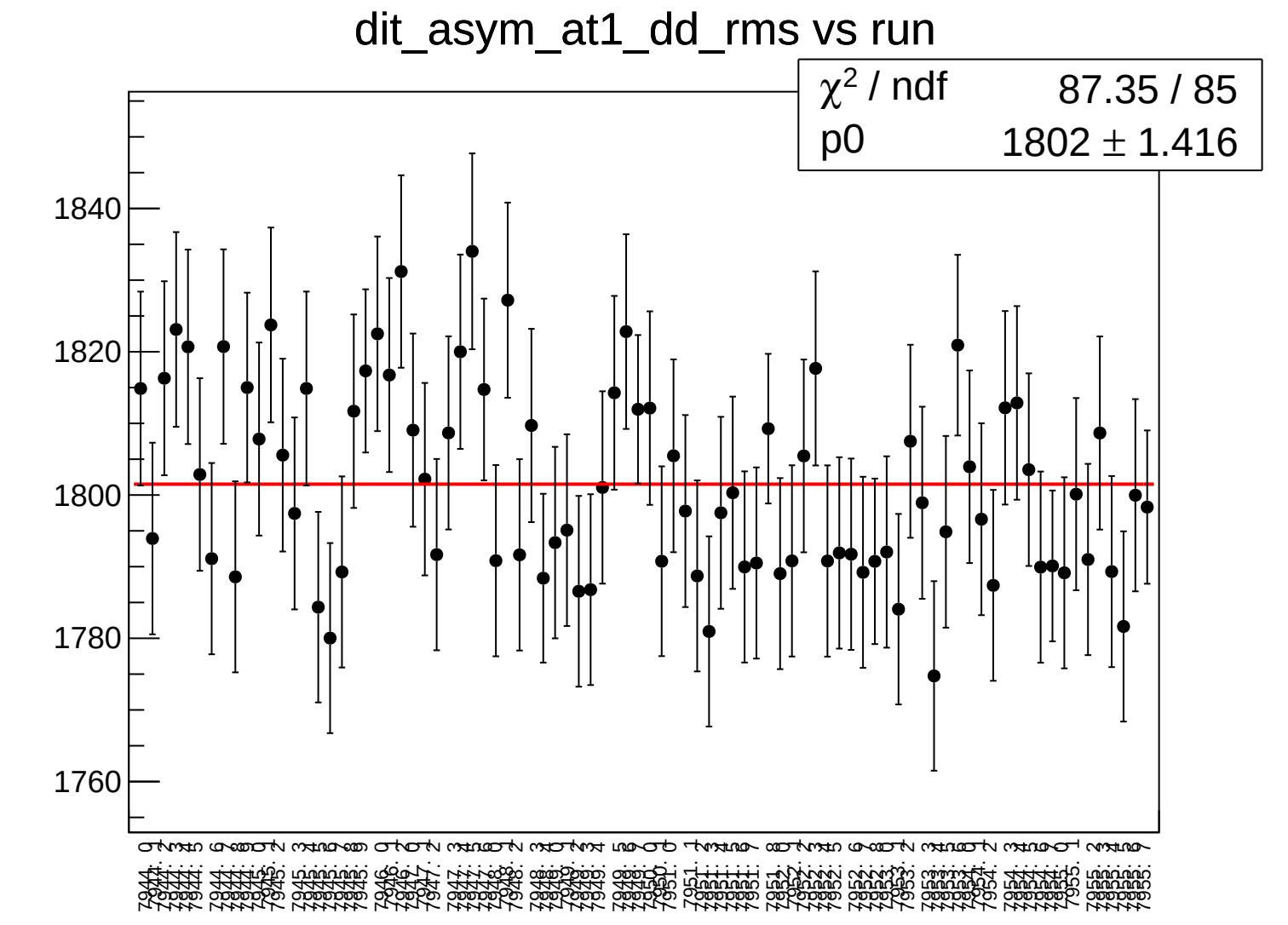

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.53 / 85
p0 877.4 ± 1045
pull
Entries 86
Mean 772.6
Std Dev 0

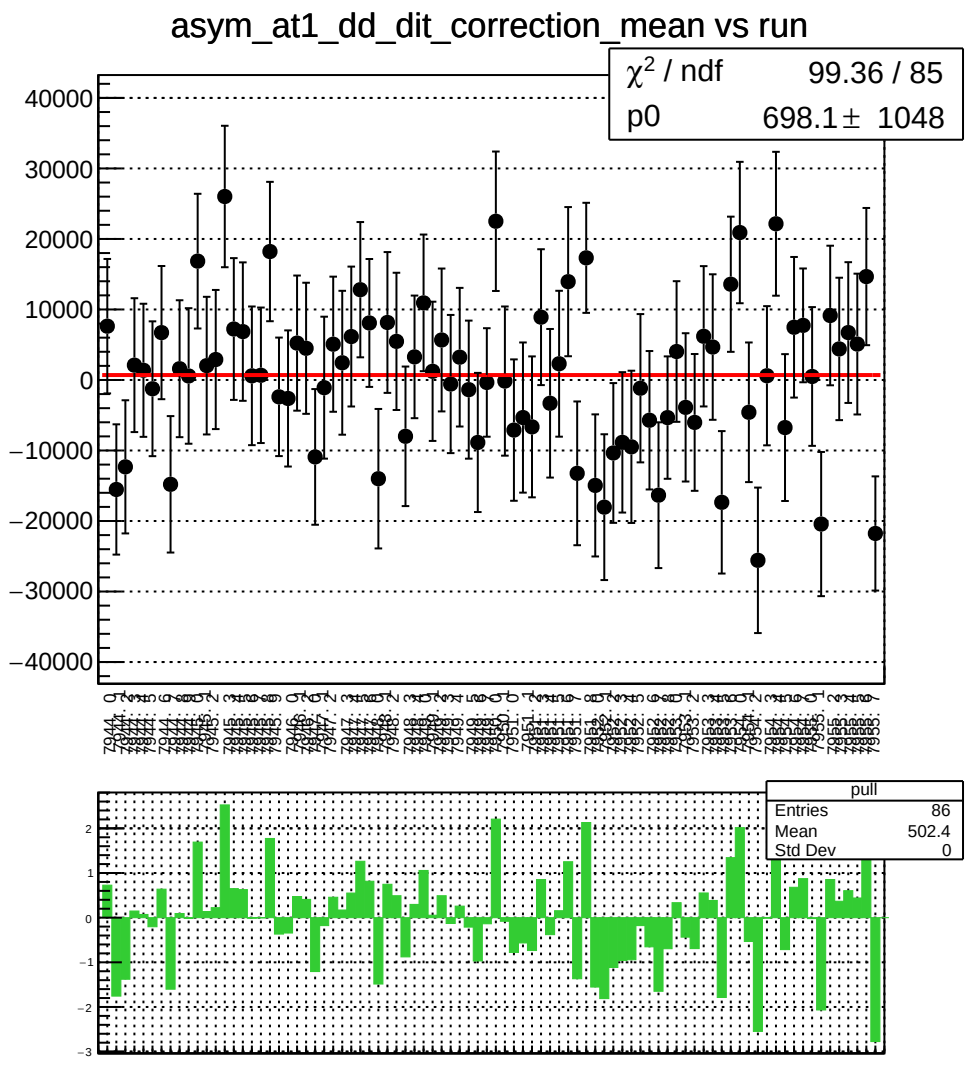

pull1D
Entries 86
Mean −0.004124
Std Dev 1.076

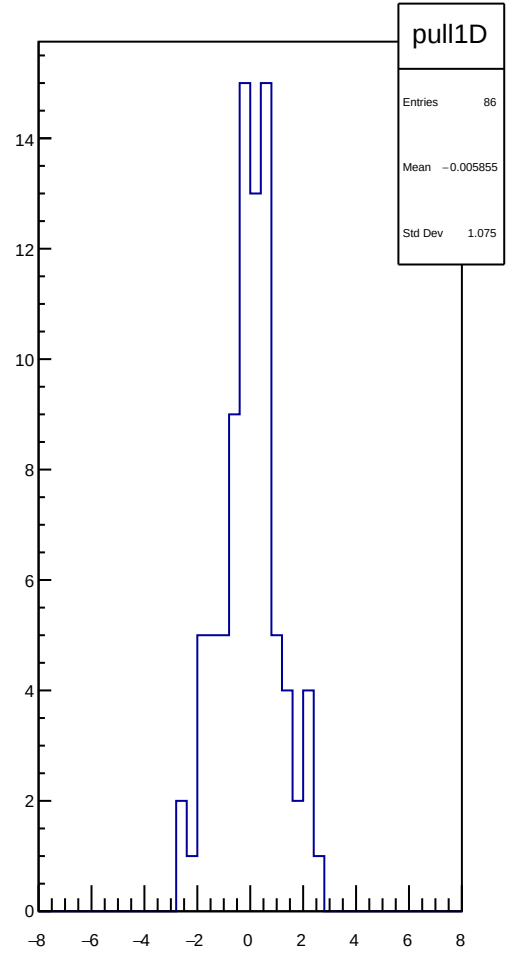

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1965 / 85
p0 939.3 ± 0.7386
1040
1020
1000
980
960
940
920
900
880
860

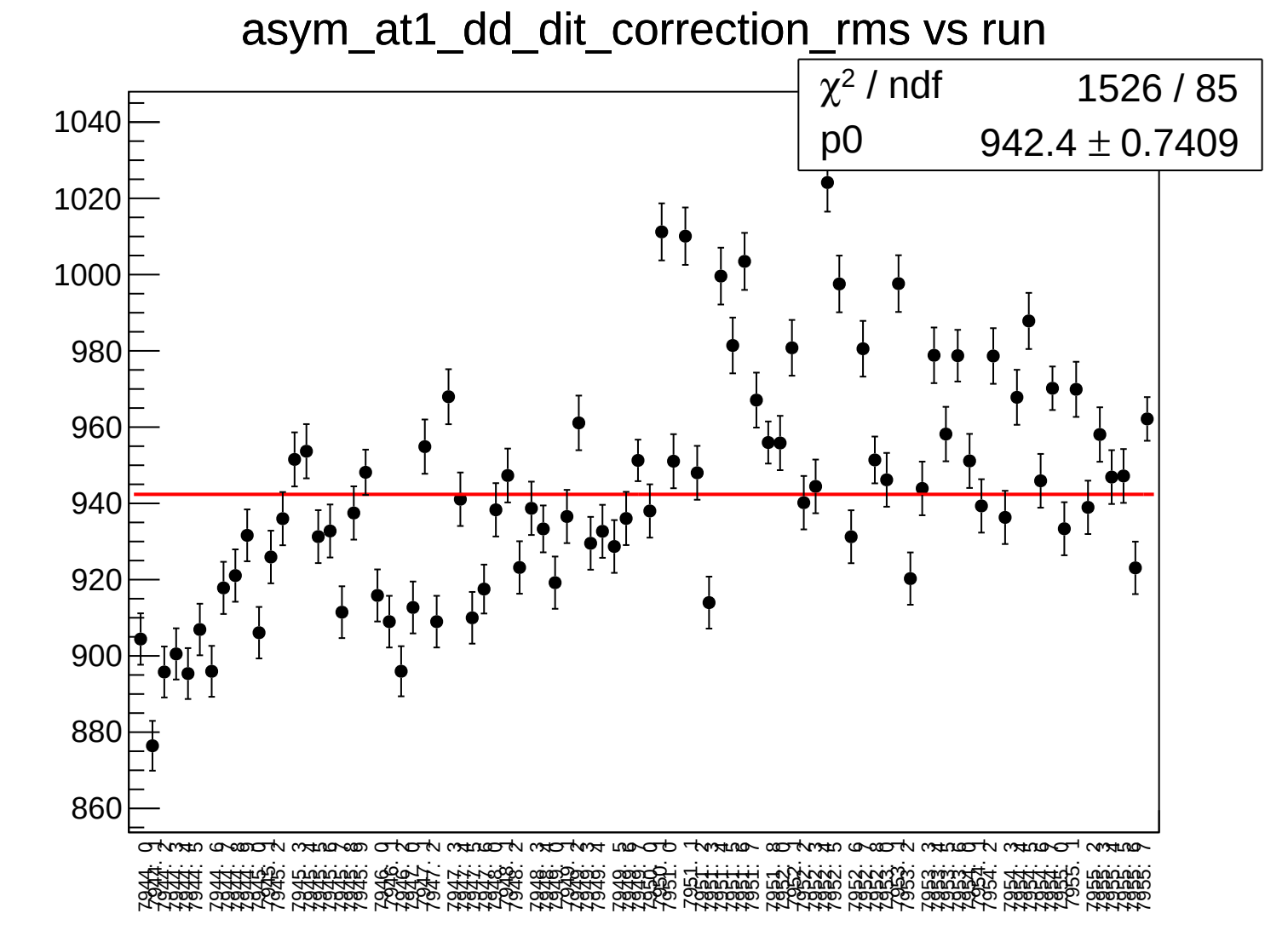

dit_asym_at1_dd_mean vs run
χ² / ndf 75.98 / 85
p0 787.2 ± 2002
pull
Entries 86
Mean −278.4
Std Dev 0

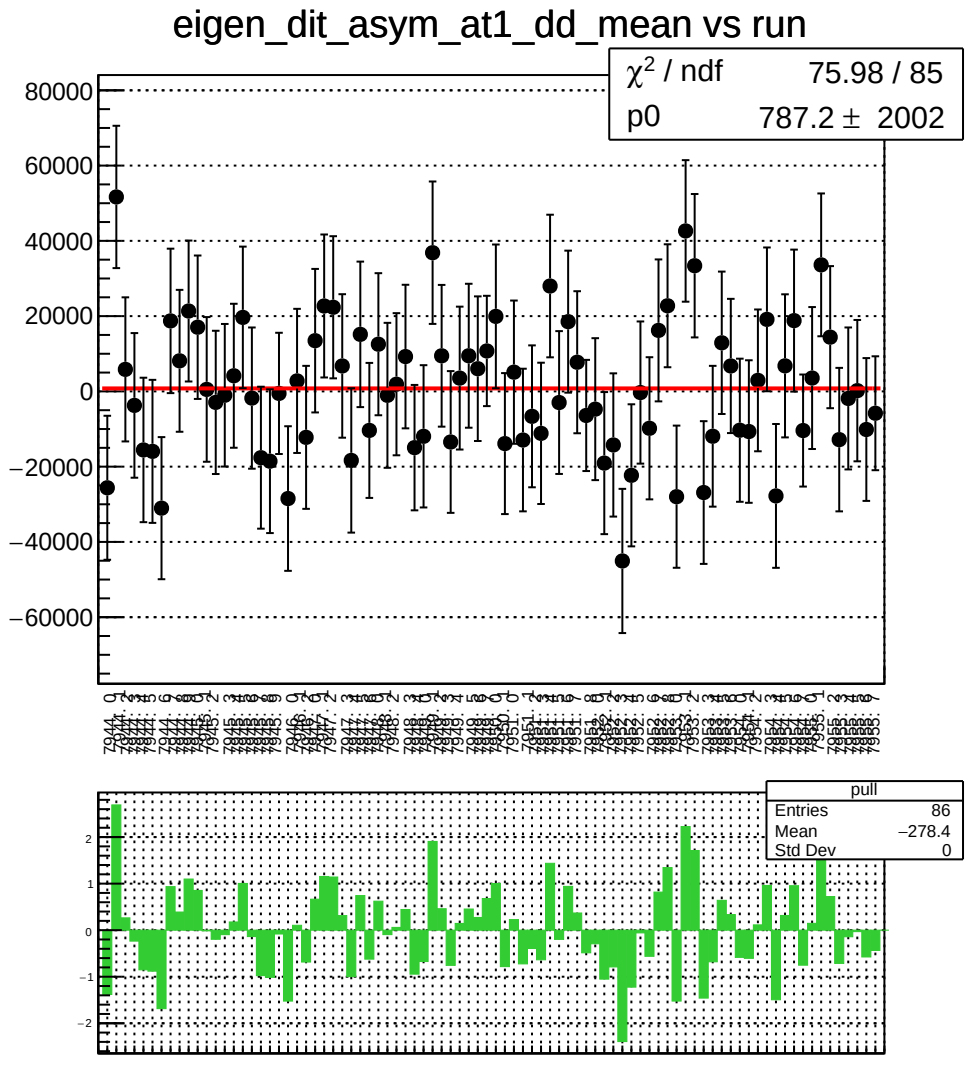

pull1D
Entries 86
Mean 0.001677
Std Dev 0.94

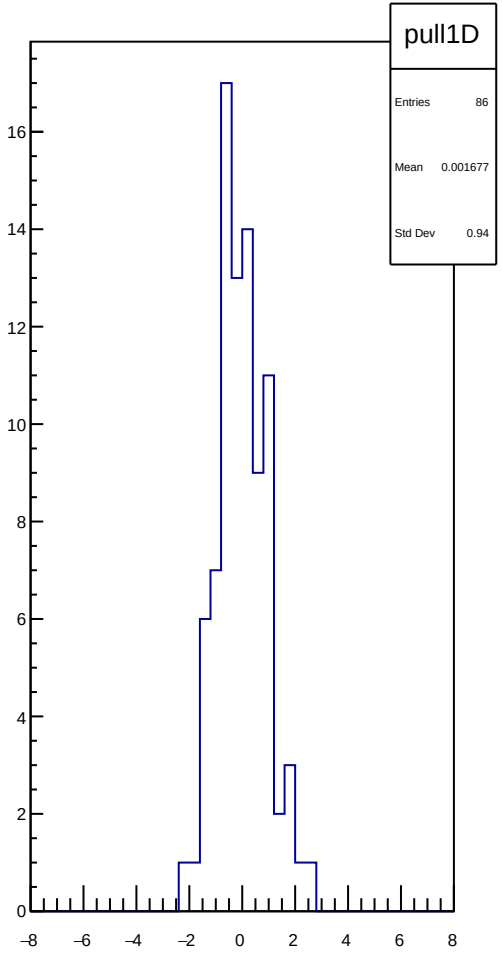

dit_asym_at1_dd_rms vs run
χ^2 / ndf 87.35 / 85
p0 1802 ± 1.416
1840
1820
1800
1780
1760

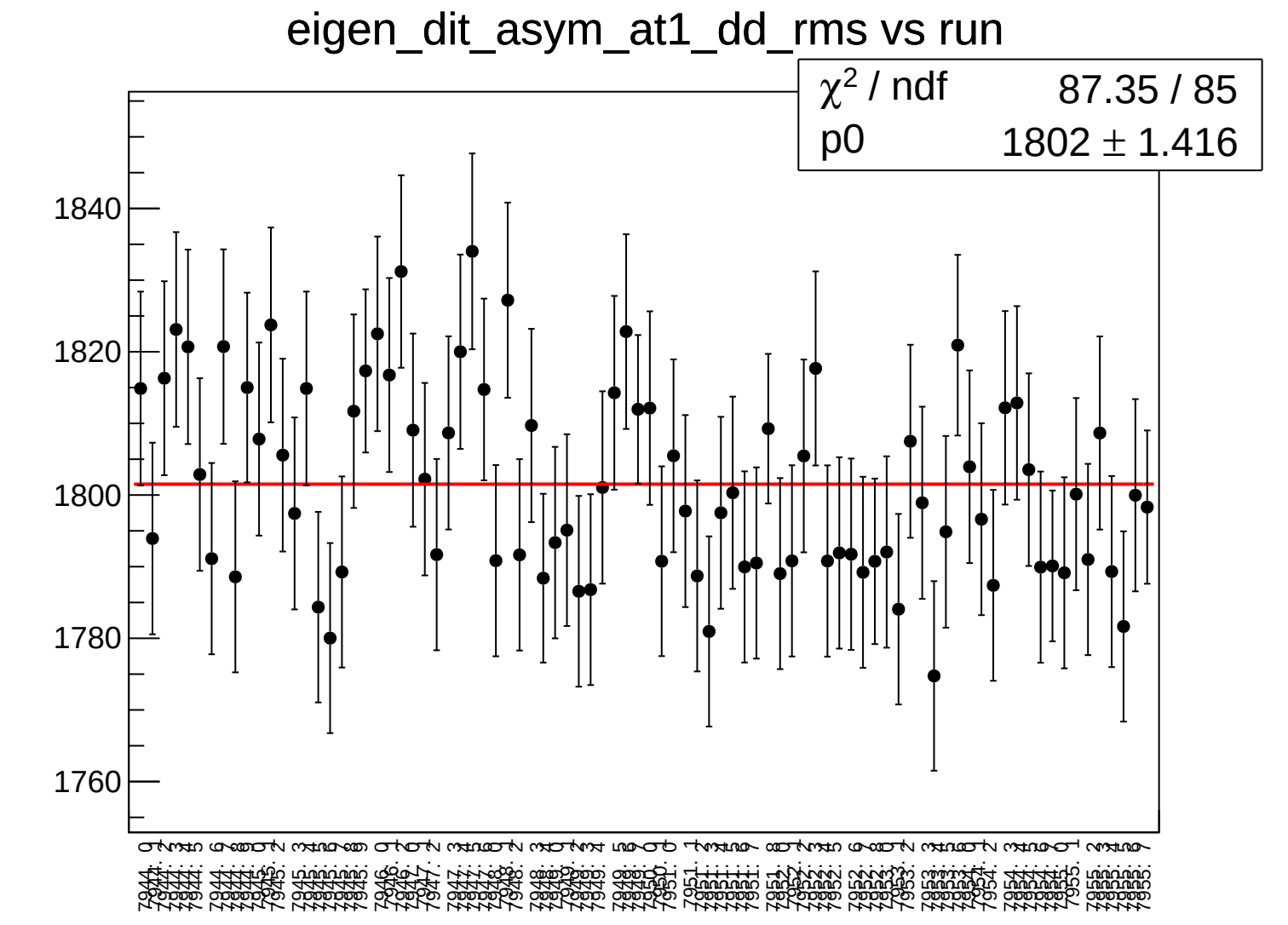

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 99.36 / 85
p0 698.1 ± 1048
pull
Entries 86
Mean 502.4
Std Dev 0

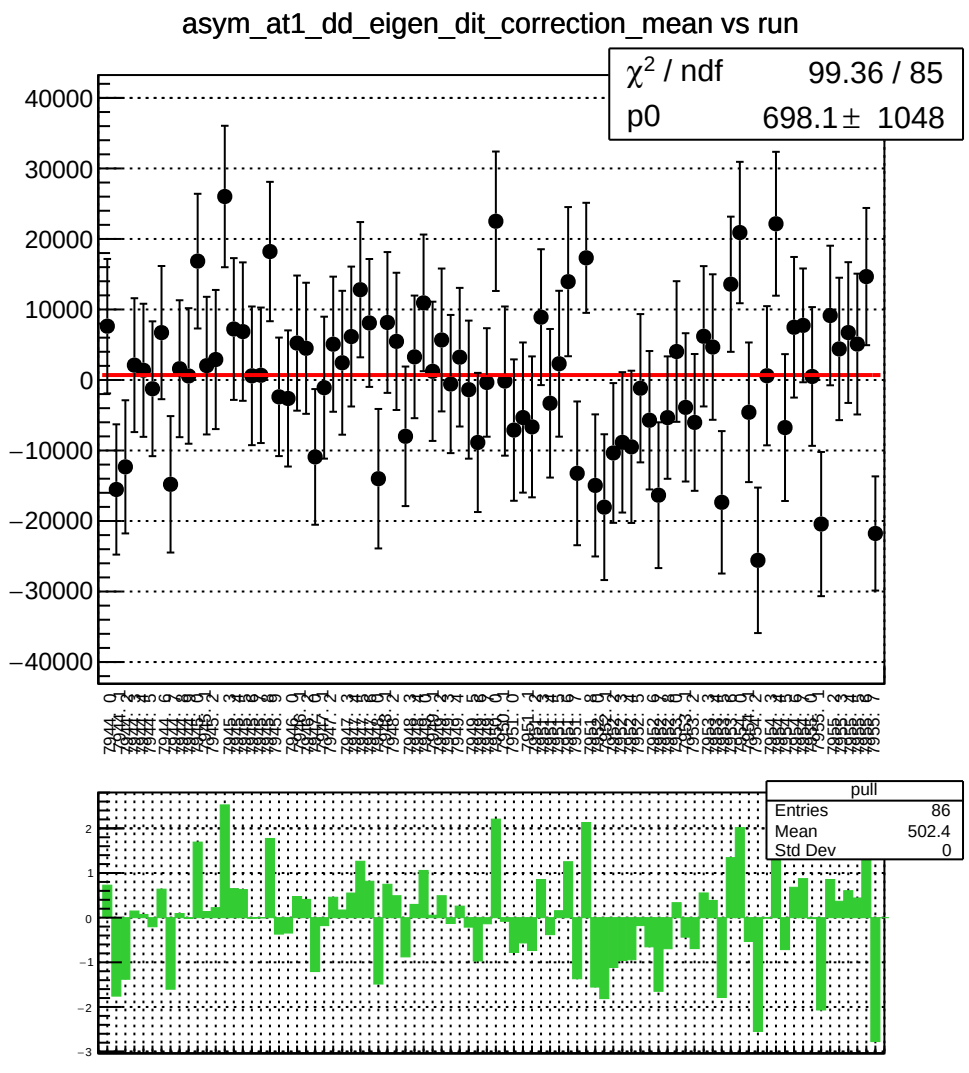

pull1D
Entries 86
Mean −0.005855
Std Dev 1.075

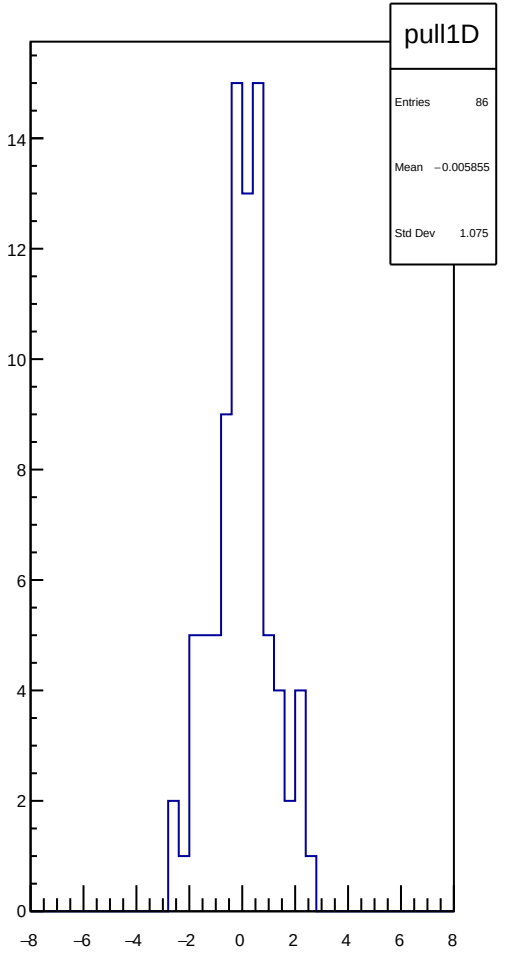

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1526 / 85
p0 942.4 ± 0.7409
1040
1020
1000
980
960
940
920
900
880
860

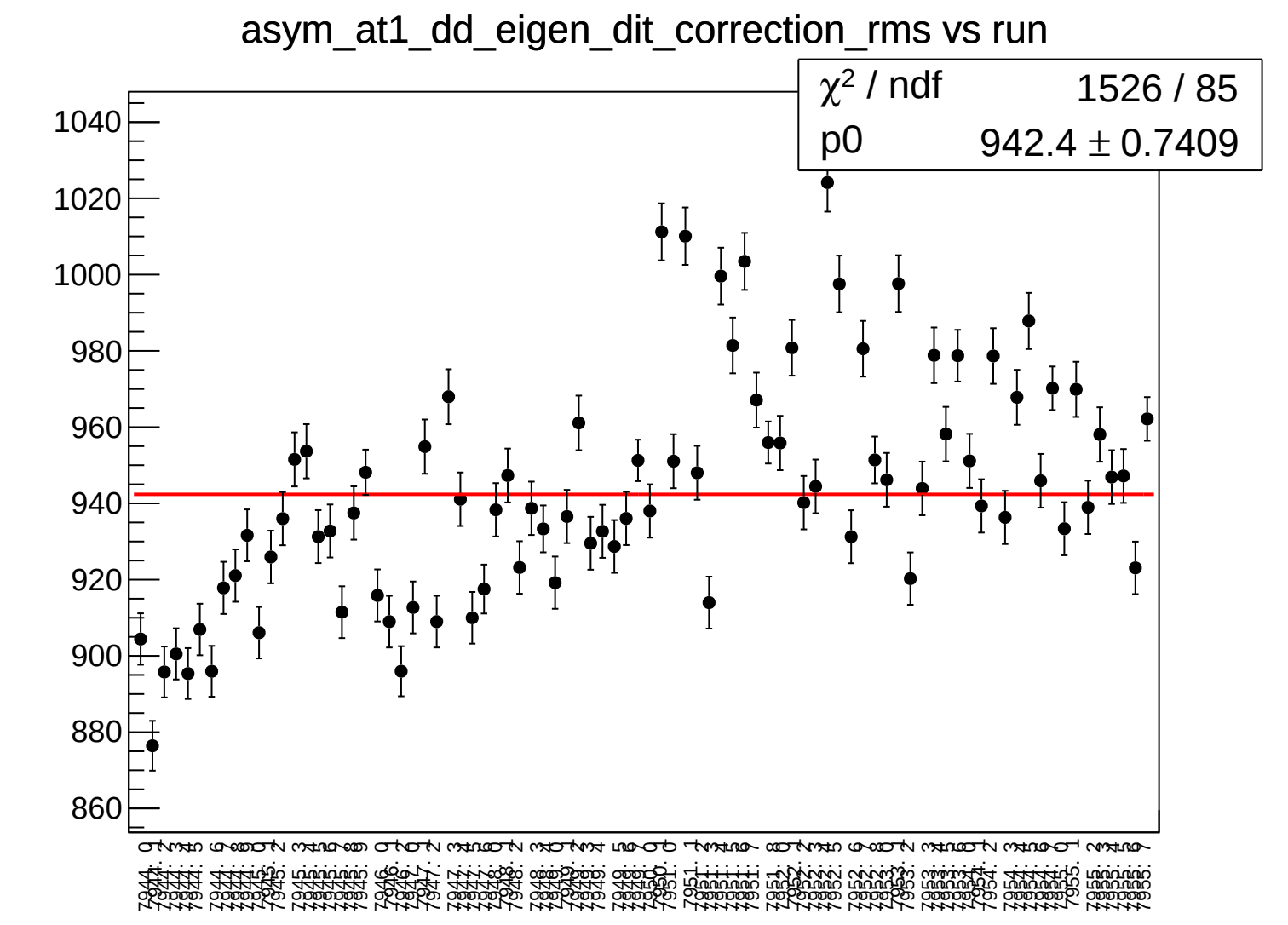

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 75.98 / 85
p0 787.2 ± 2002
pull
Entries 86
Mean −278.4
Std Dev 0

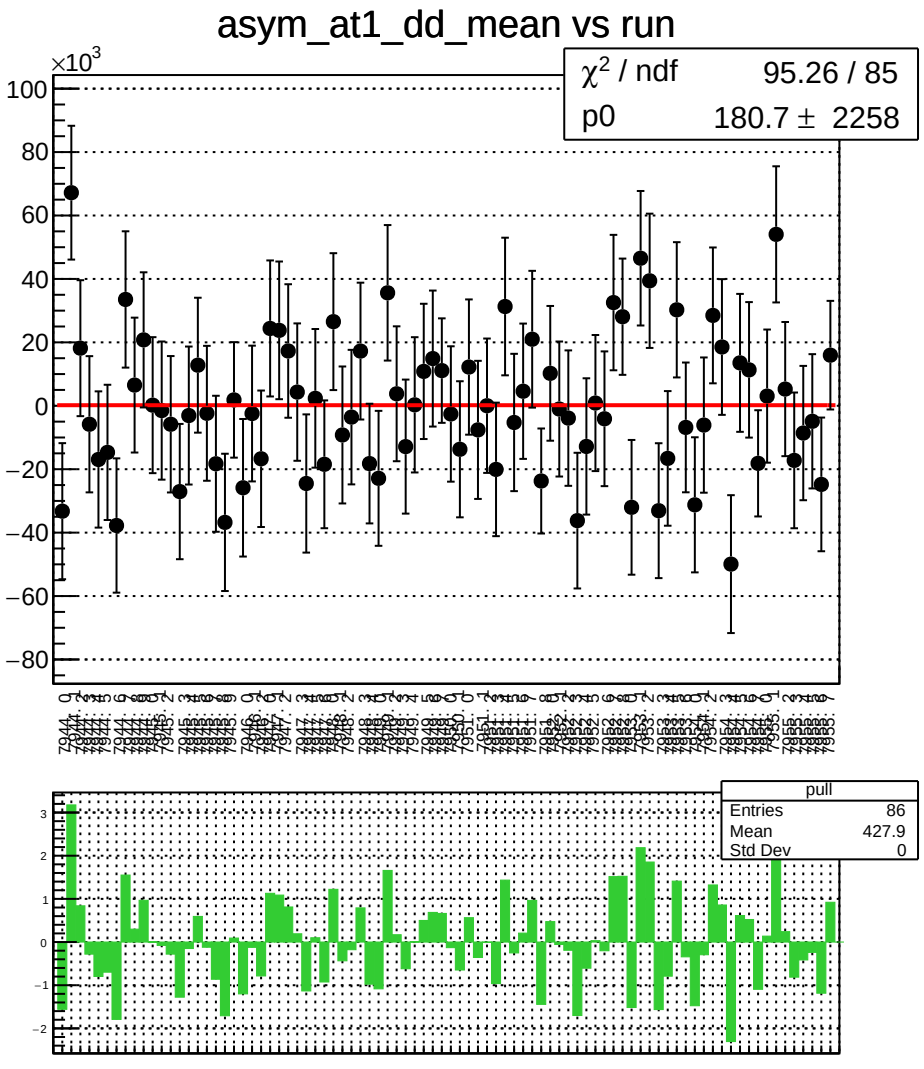

pull1D
Entries 86
Mean 0.001677
Std Dev 0.94

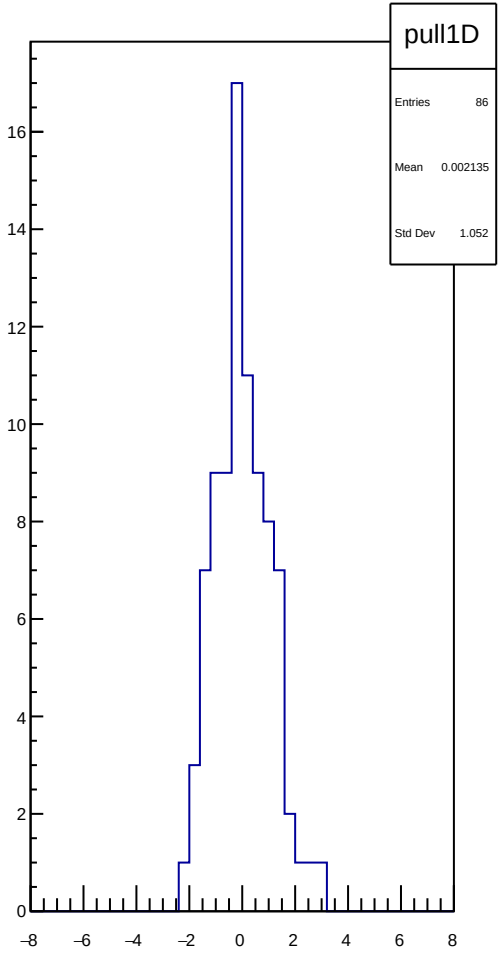

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 87.35 / 85
p0 1802 ± 1.416
1840
1820
1800
1780
1760

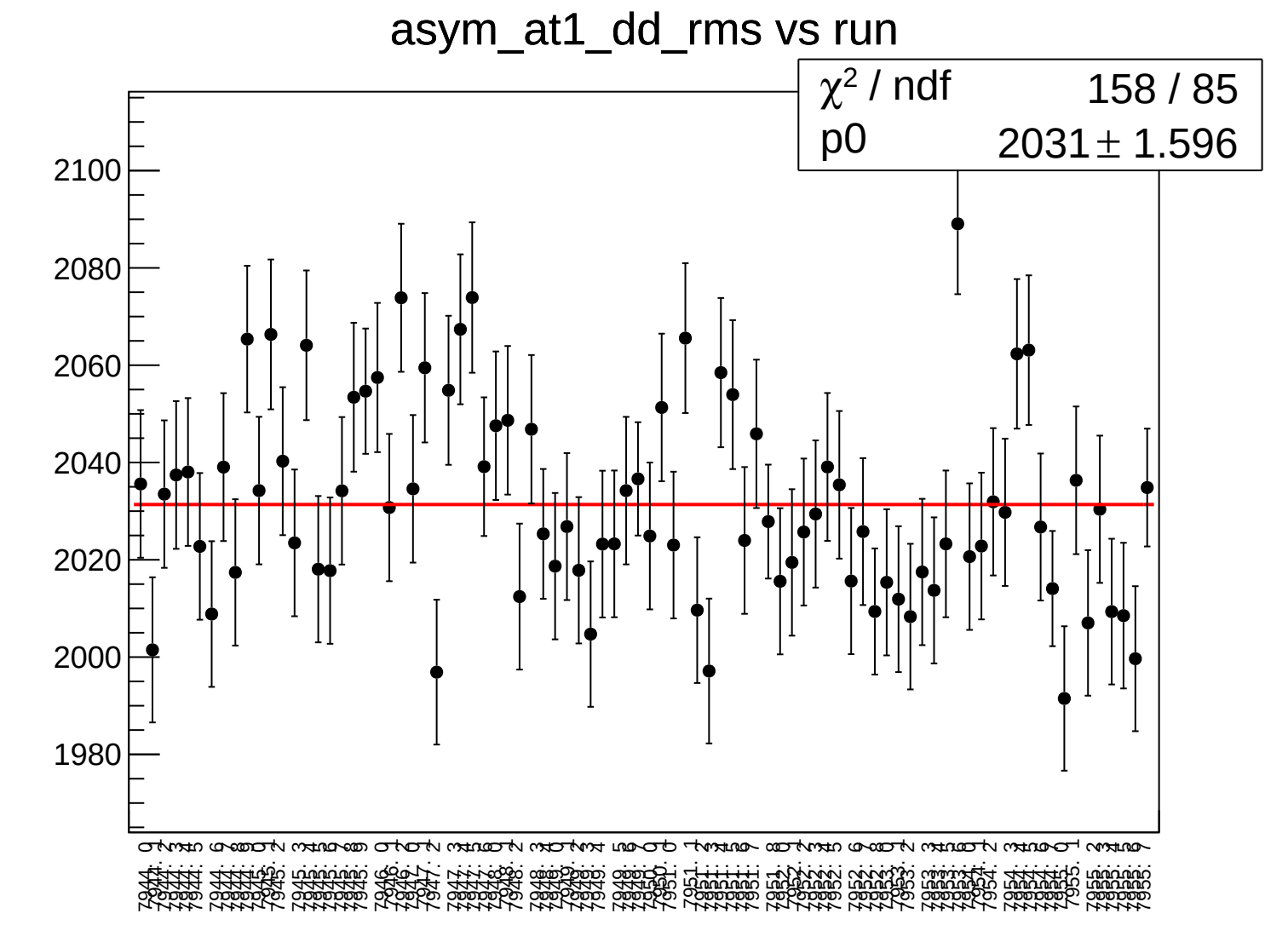

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.36 / 85
p0 698.1 ± 1048
pull
Entries 86
Mean 502.4
Std Dev 0

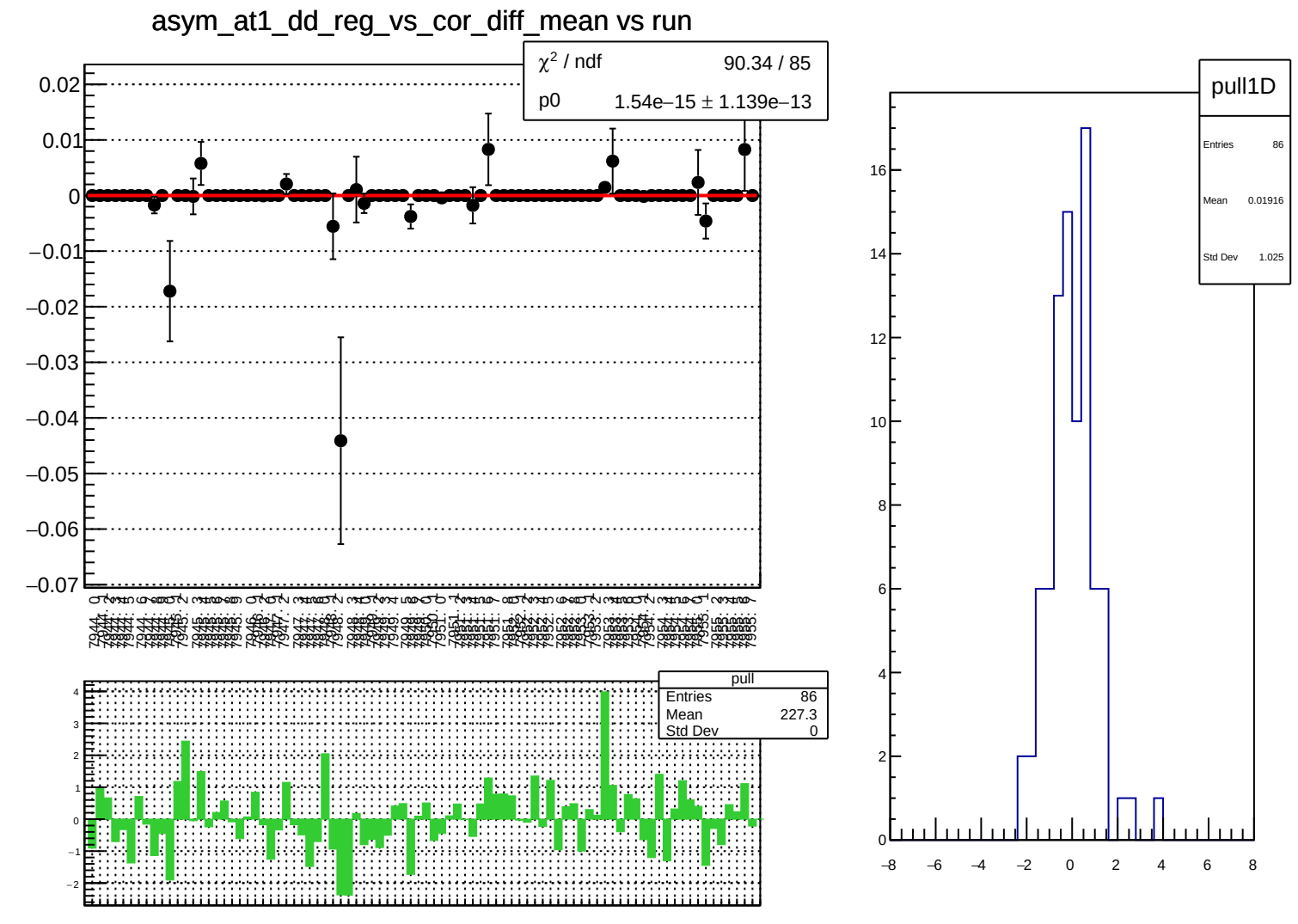

pull1D
Entries 86
Mean −0.005855
Std Dev 1.075

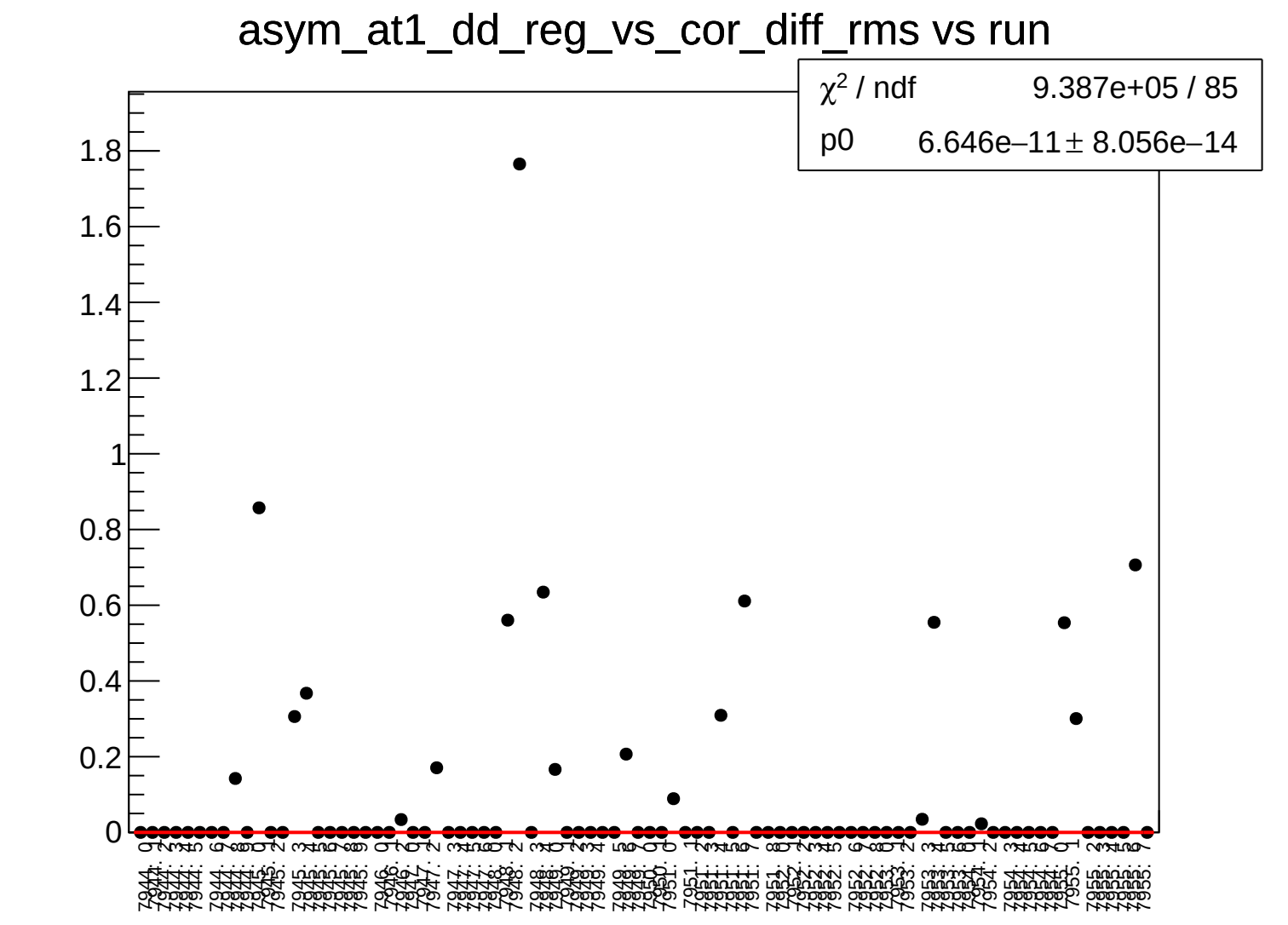

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1526 / 85
p0 942.4 ± 0.7409
1040
1020
1000
980
960
940
920
900
880
860

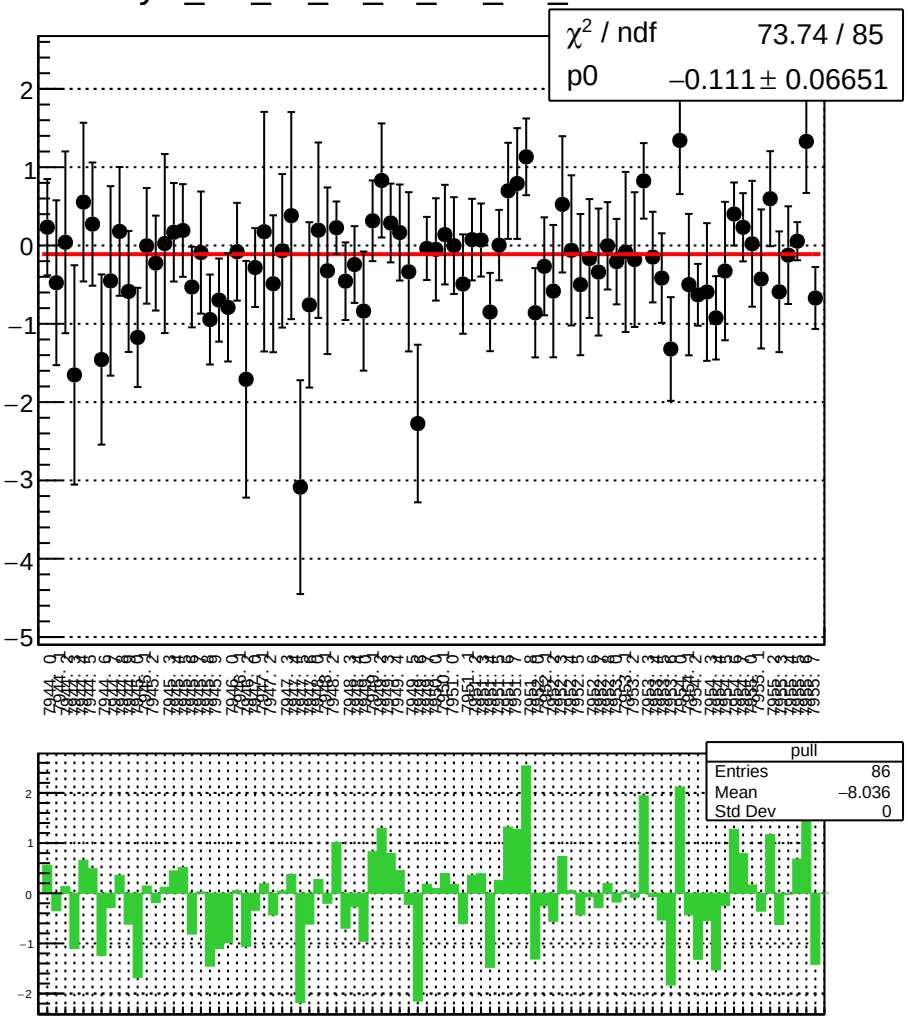

asym_at1_dd_mean vs run
×10^3
χ² / ndf 95.26 / 85
p0 180.7 ± 2258
pull
Entries 86
Mean 427.9
Std Dev 0

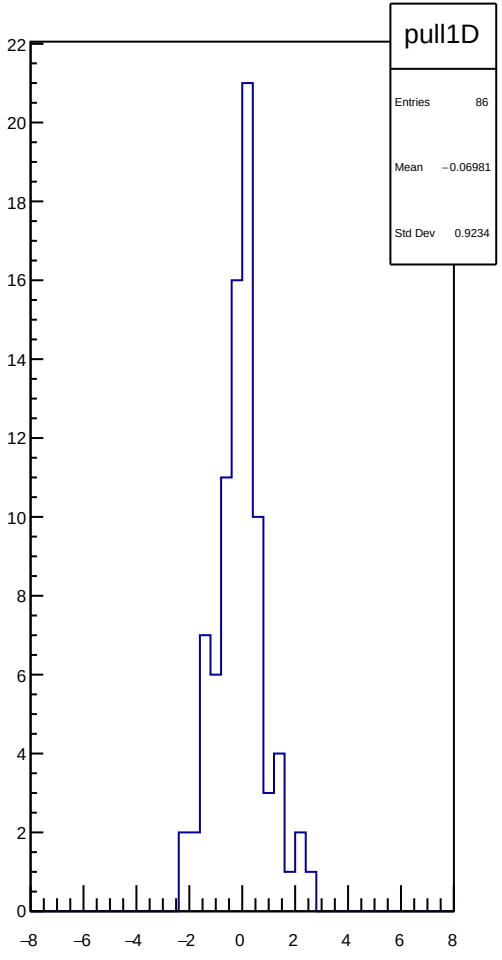

pull1D
Entries 86
Mean 0.002135
Std Dev 1.052

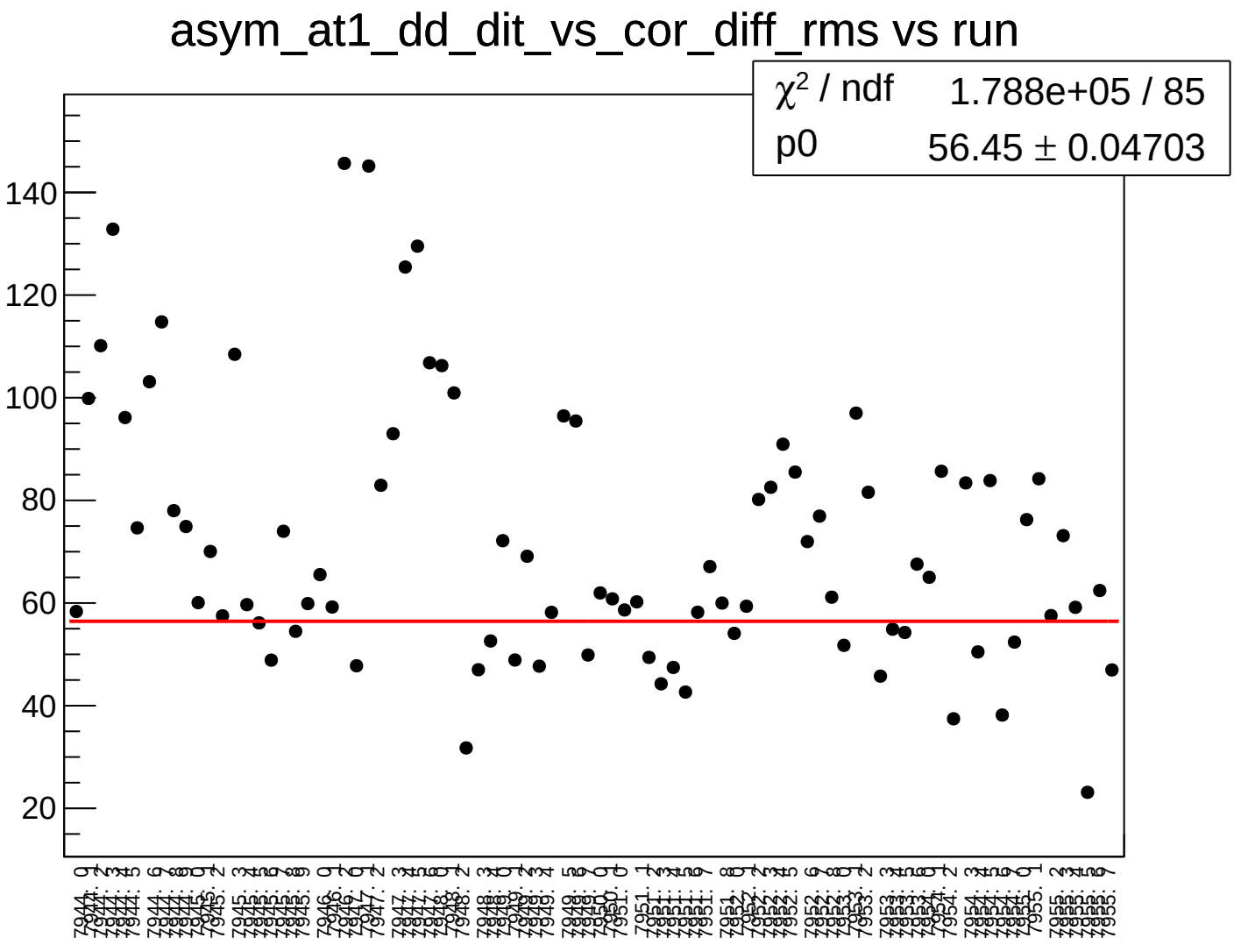

asym_at1_dd_rms vs run
χ² / ndf 158 / 85
p0 2031 ± 1.596
2100
2080
2060
2040
2020
2000
1980

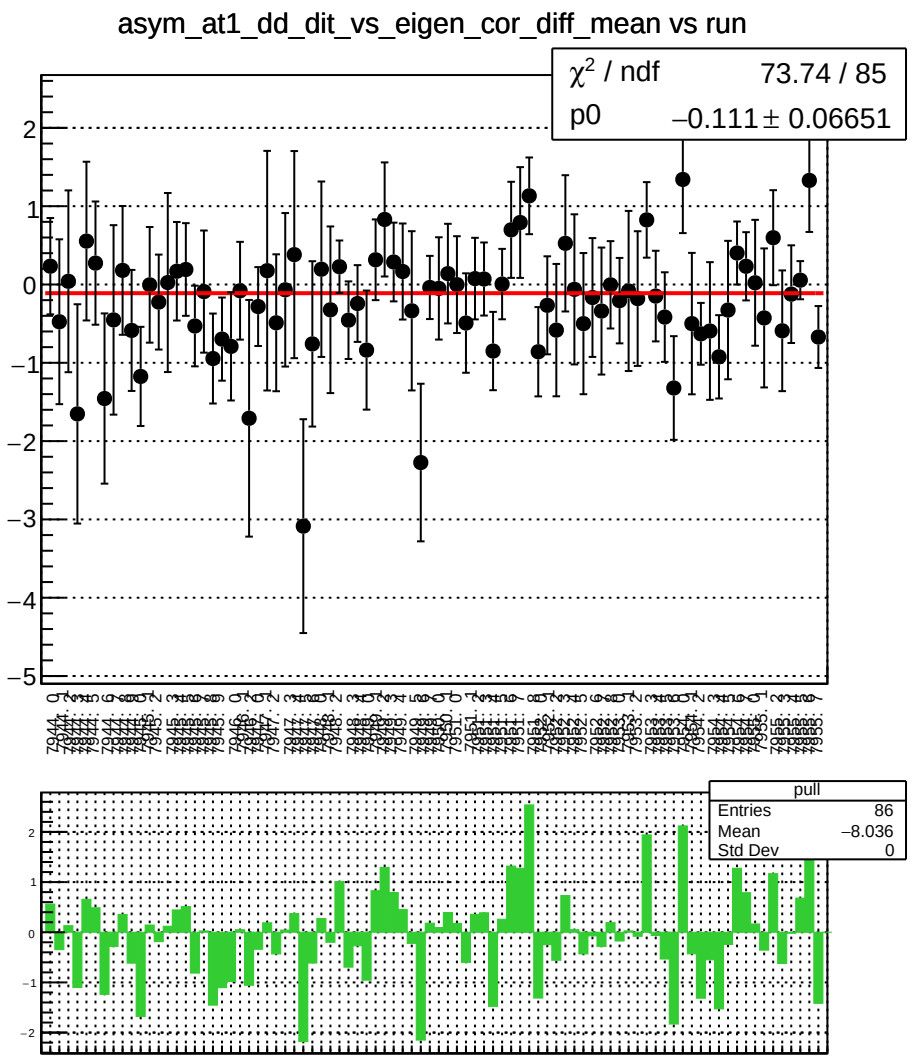

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.34 / 85
p0 1.54e−15 ± 1.139e−13
pull
Entries 86
Mean 227.3
Std Dev 0
pull1D
Entries 86
Mean 0.01916
Std Dev 1.025

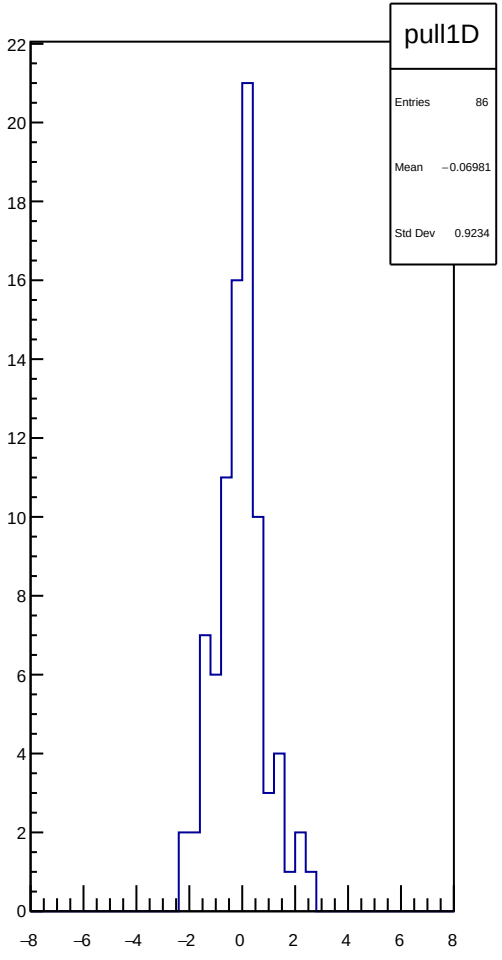

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.387e+05 / 85
p0 6.646e−11 ± 8.056e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

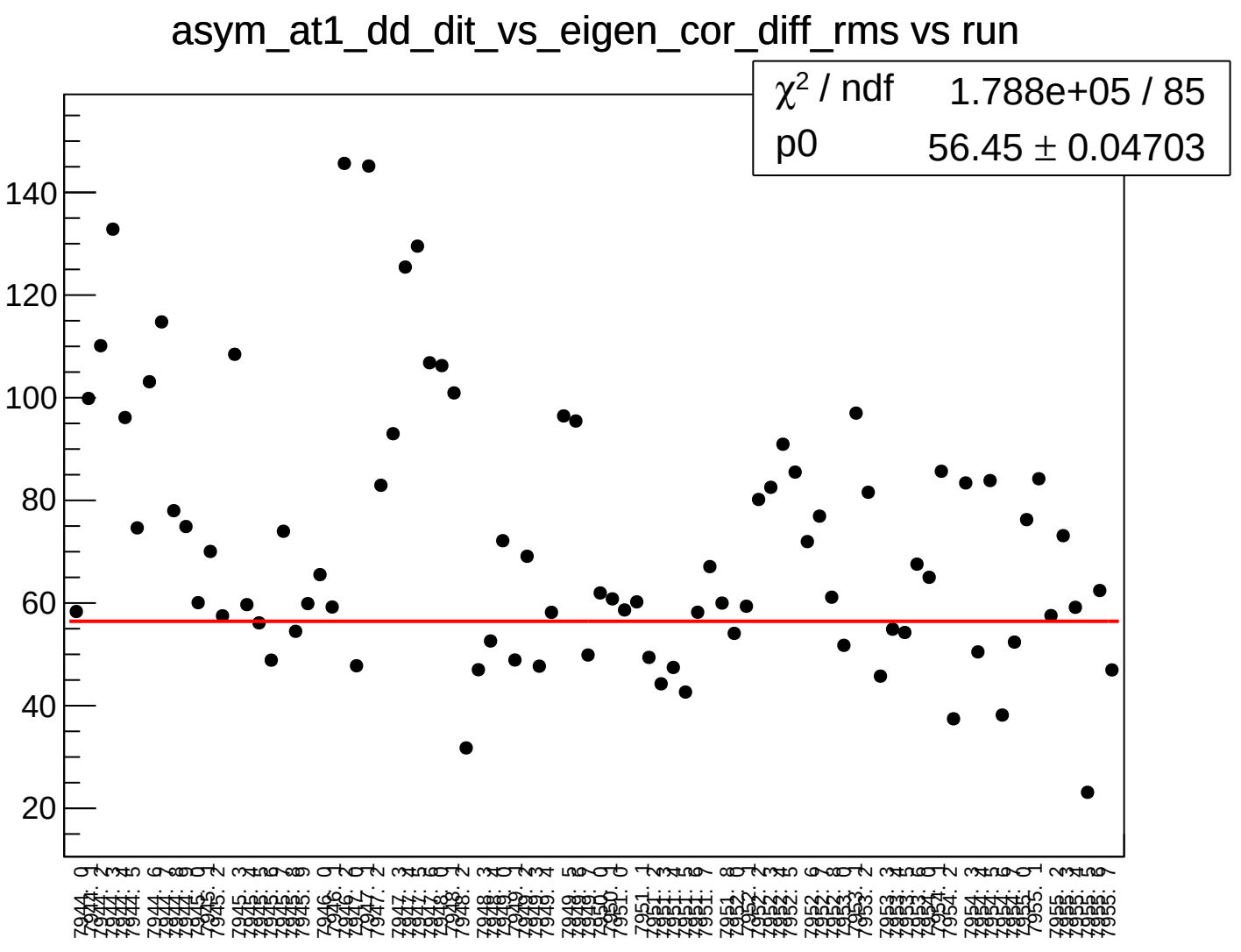

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.74 / 85
p0 −0.111 ± 0.06651
pull
Entries 86
Mean −8.036
Std Dev 0

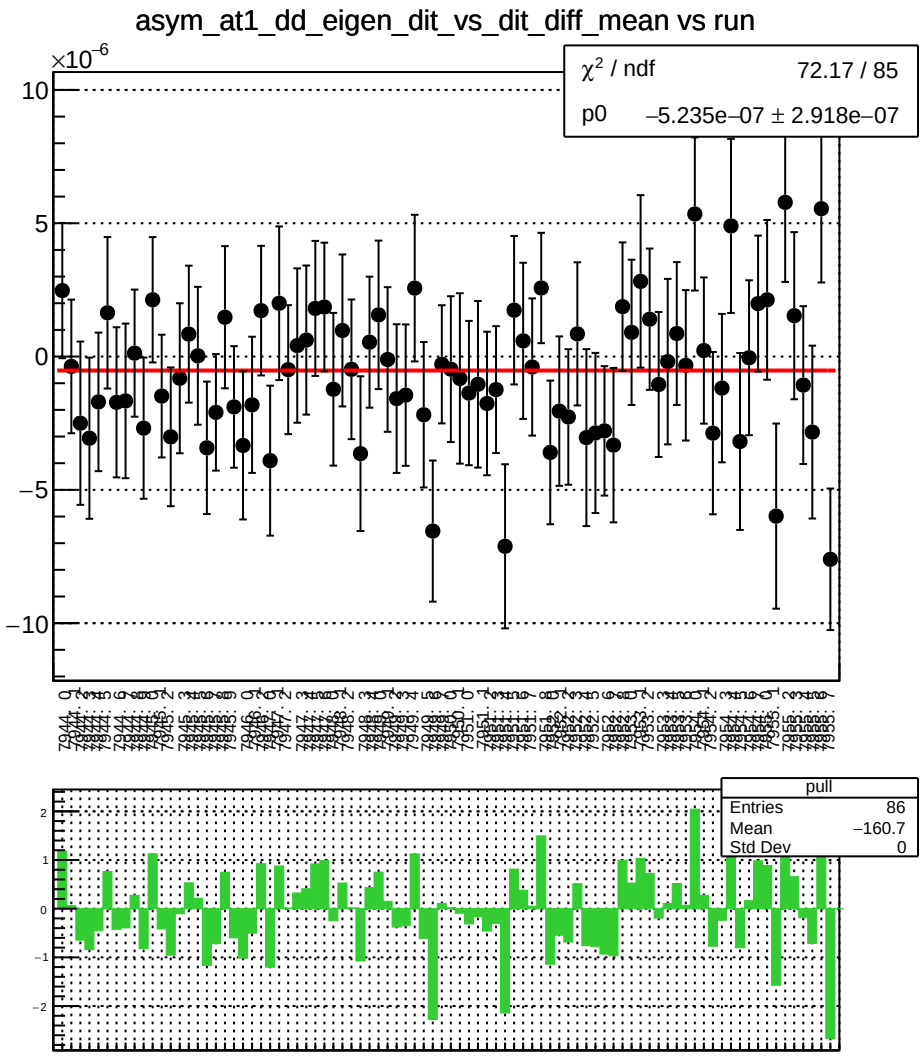

pull1D
Entries 86
Mean −0.06981
Std Dev 0.9234

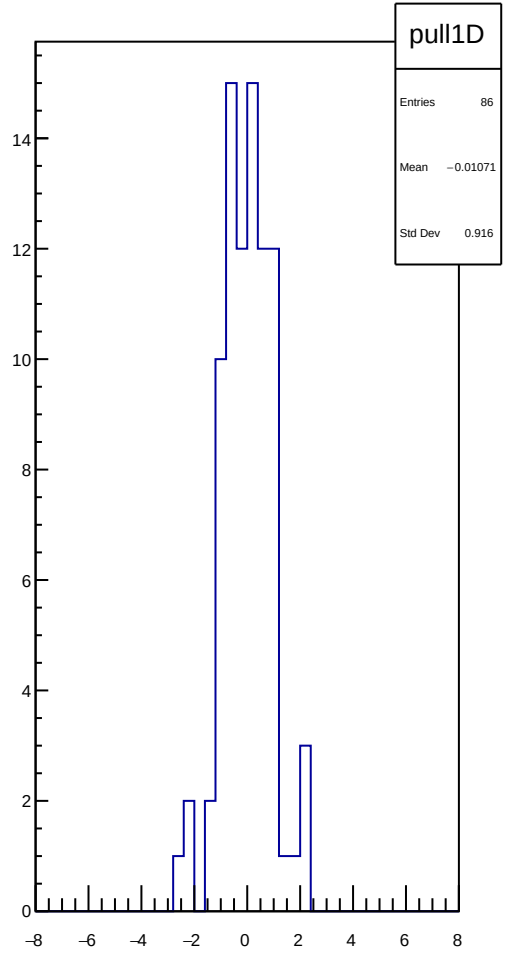

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.788e+05 / 85
p0 56.45 ± 0.04703
140
120
100
80
60
40
20

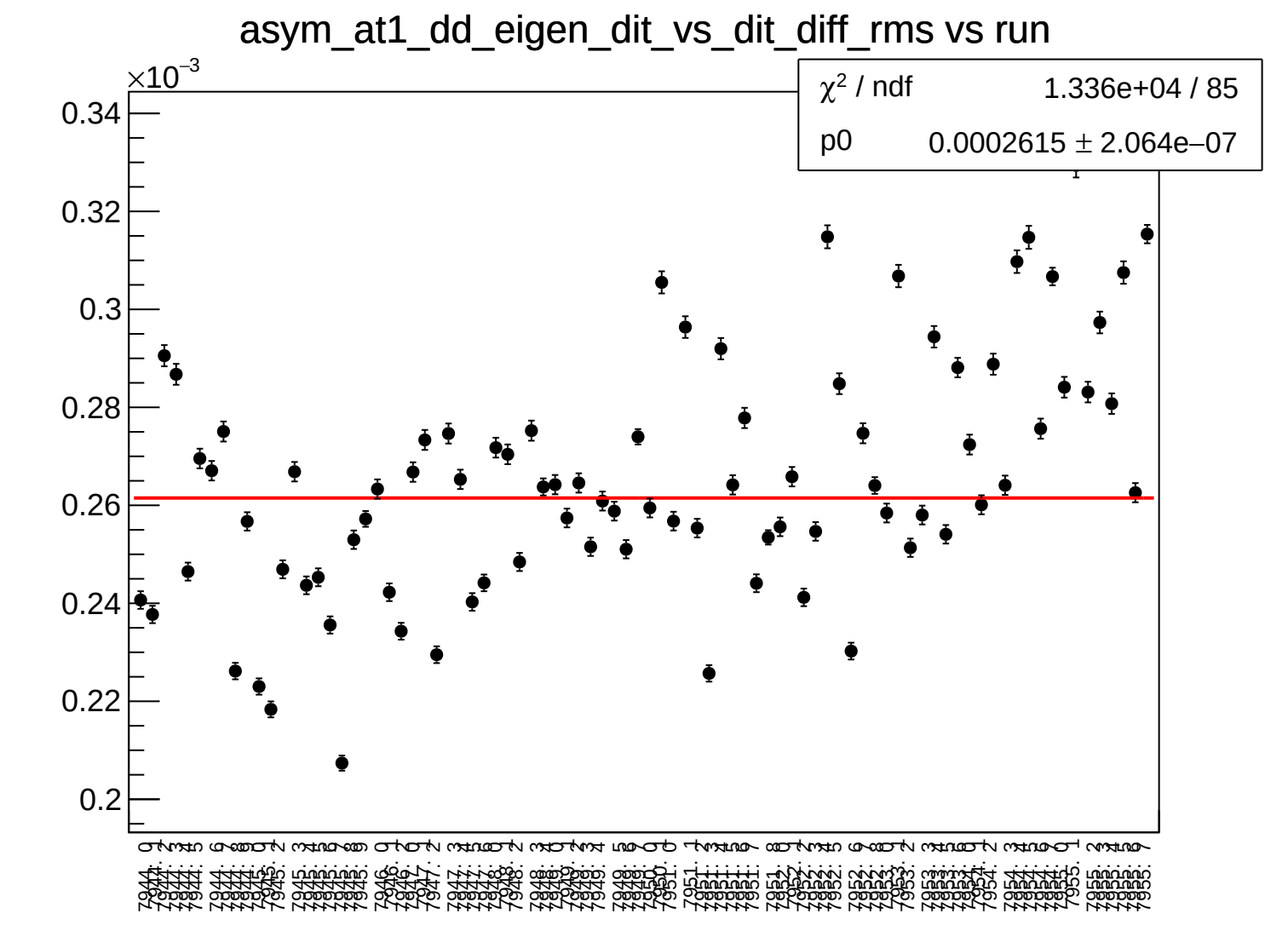

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.74 / 85
p0 −0.111 ± 0.06651
pull
Entries 86
Mean −8.036
Std Dev 0

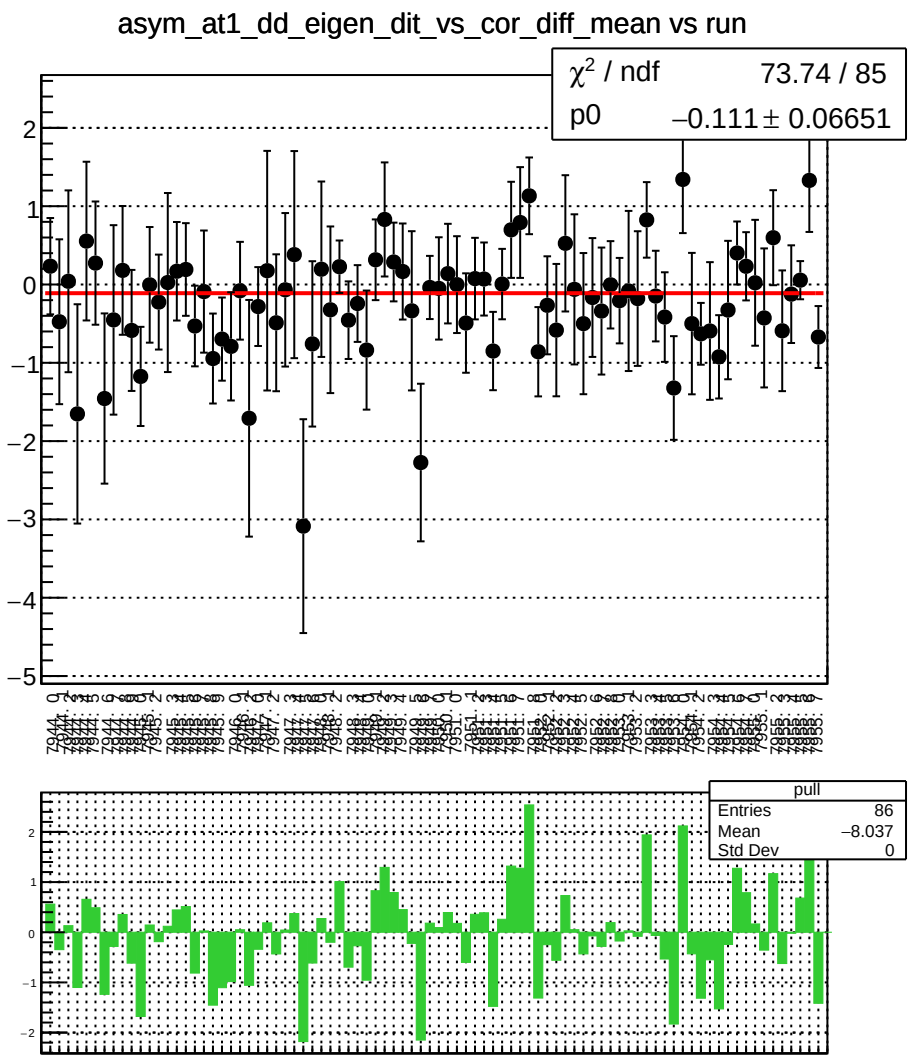

pull1D
Entries 86
Mean −0.06981
Std Dev 0.9234

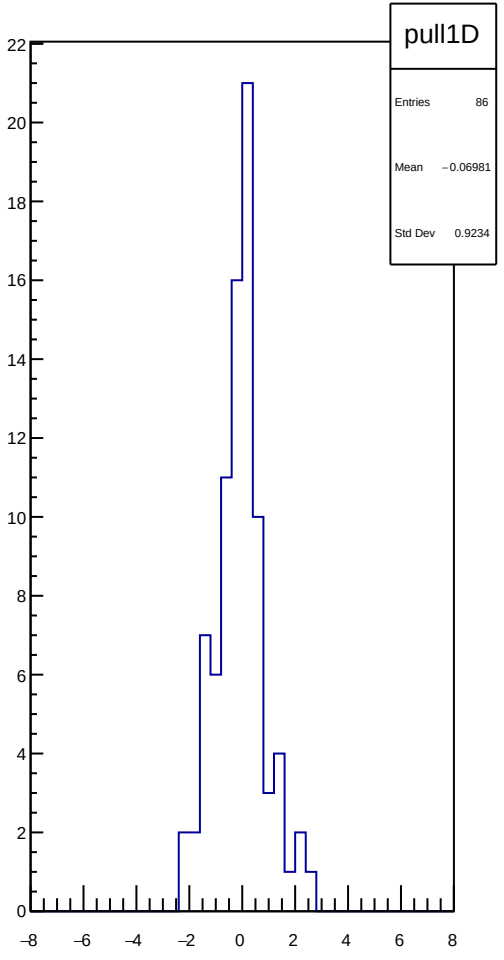

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.788e+05 / 85
p0 56.45 ± 0.04703
140
120
100
80
60
40
20

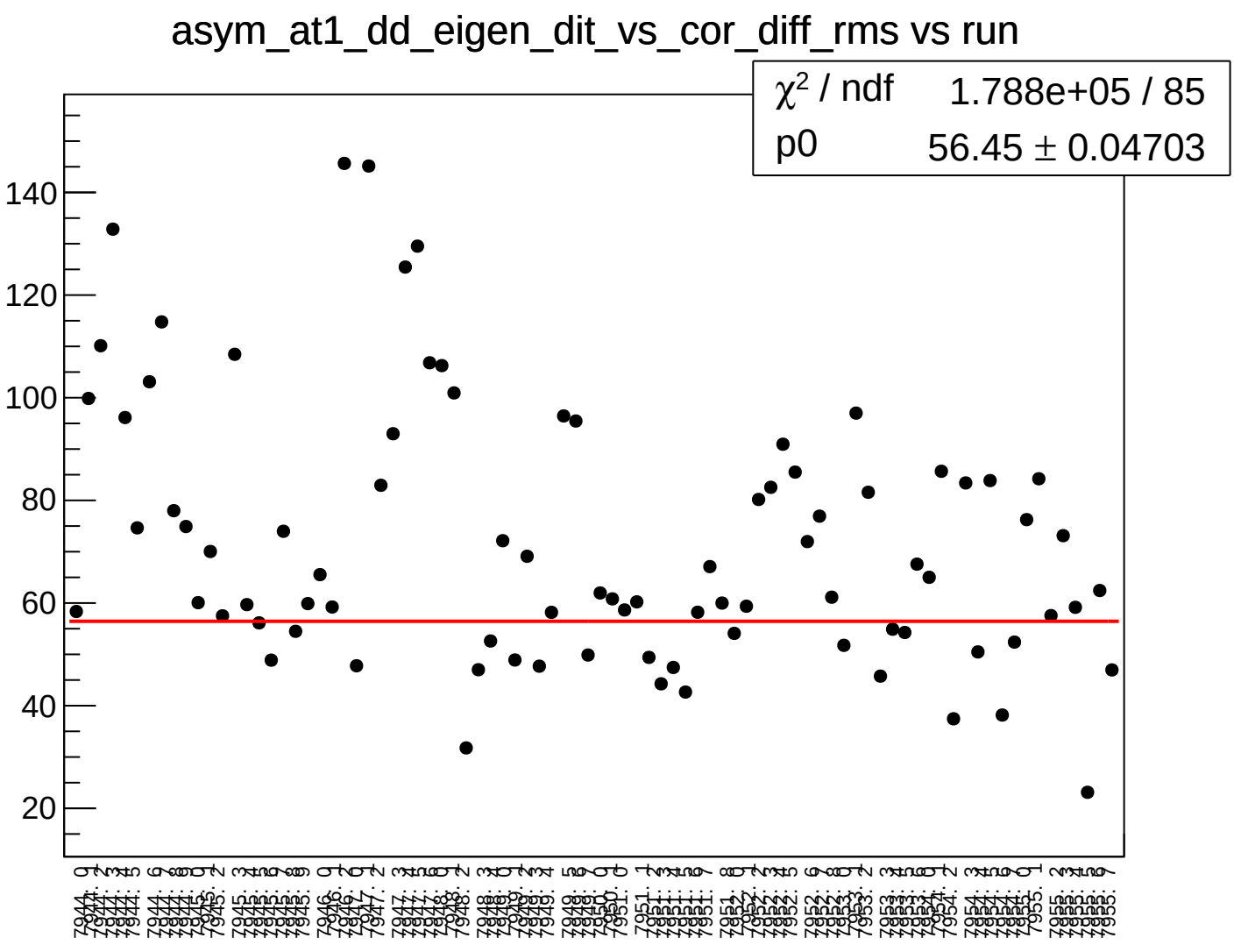

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 72.17 / 85
p0 −5.235e−07 ± 2.918e−07
pull
Entries 86
Mean −160.7
Std Dev 0

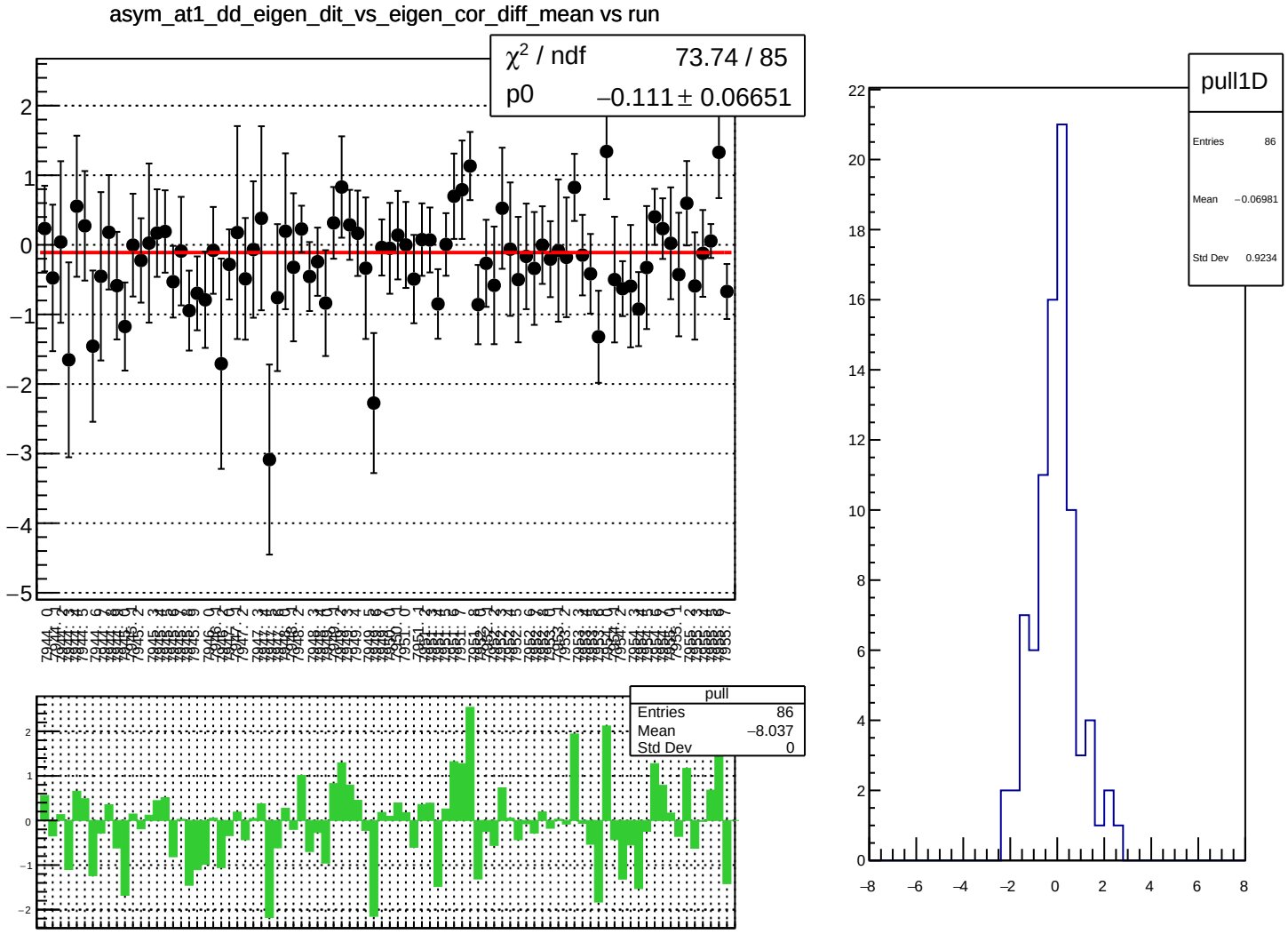

pull1D
Entries 86
Mean −0.01071
Std Dev 0.916

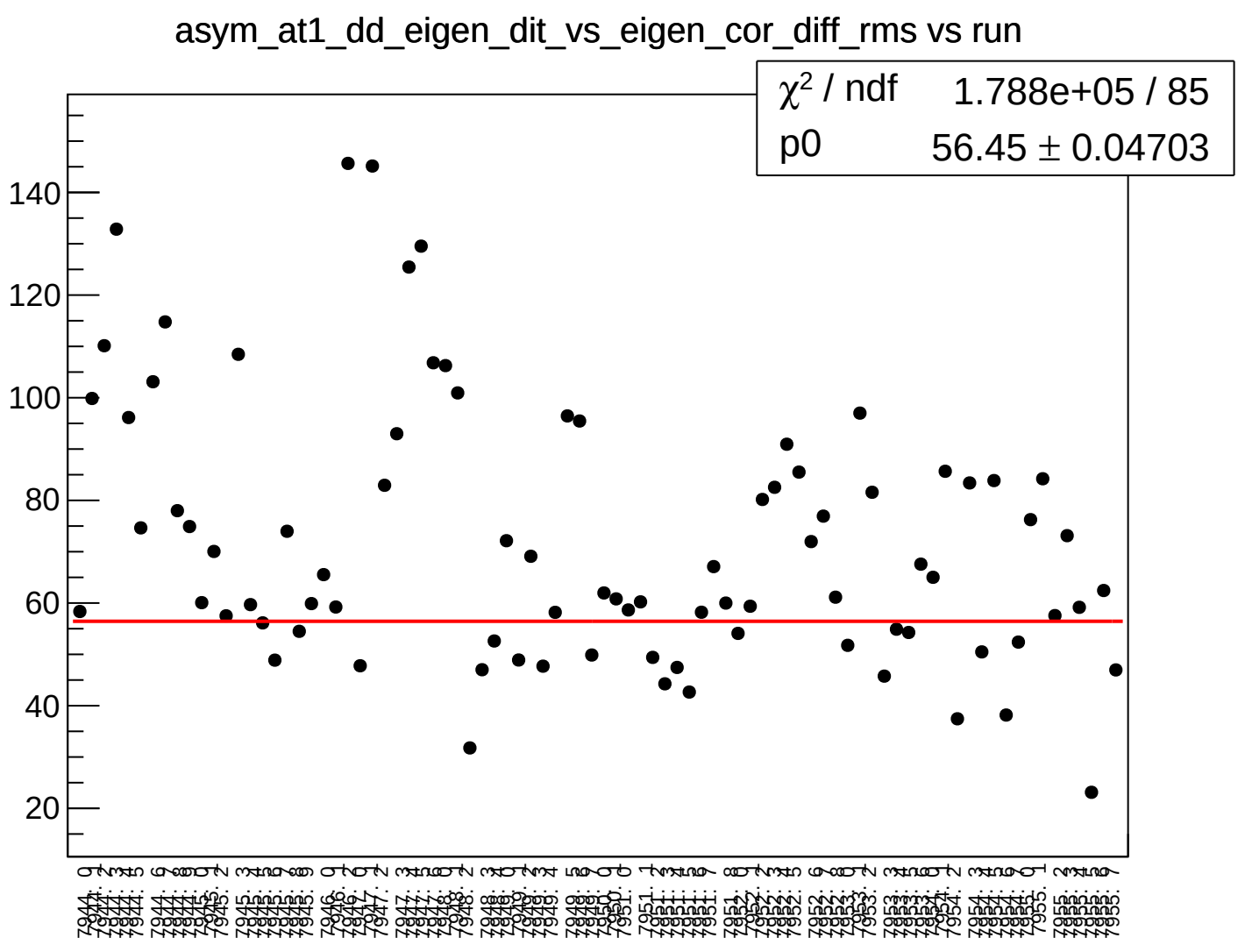

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.336e+04 / 85
p0 0.0002615 ± 2.064e−07
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2

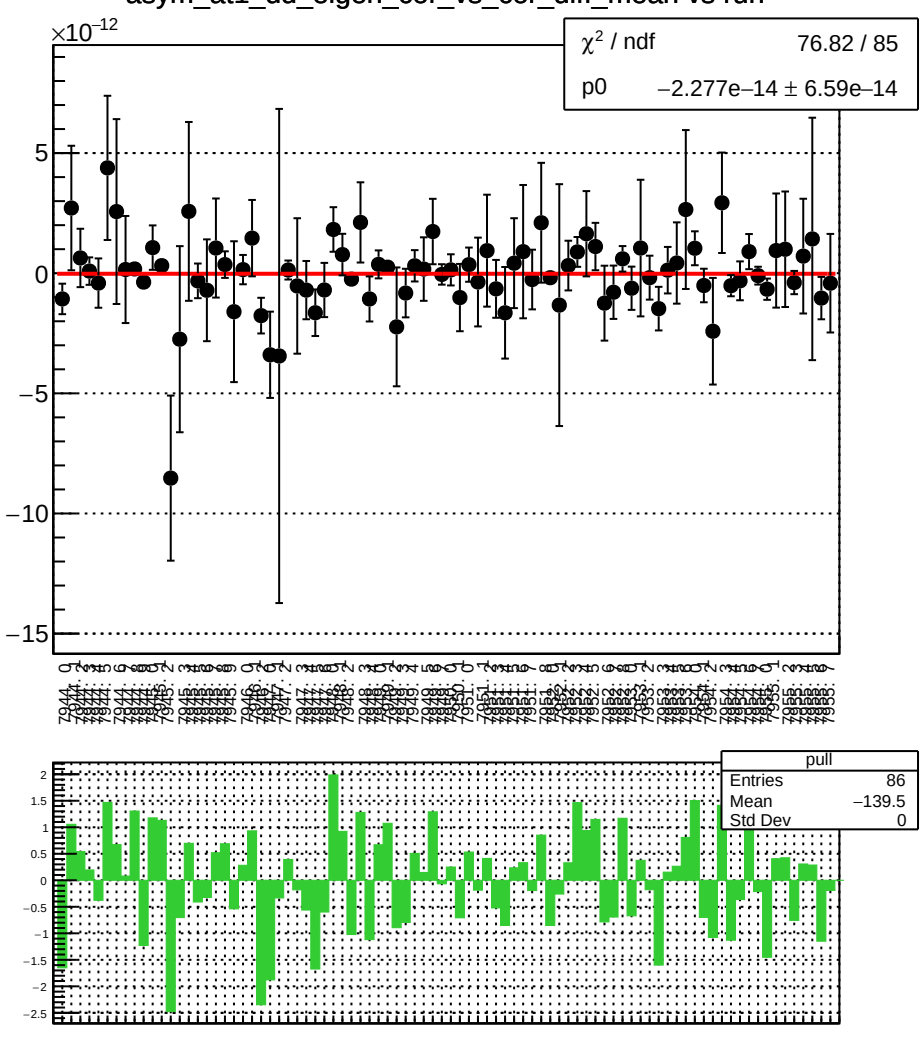

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.74 / 85
p0 −0.111 ± 0.06651
pull
Entries 86
Mean −8.037
Std Dev 0

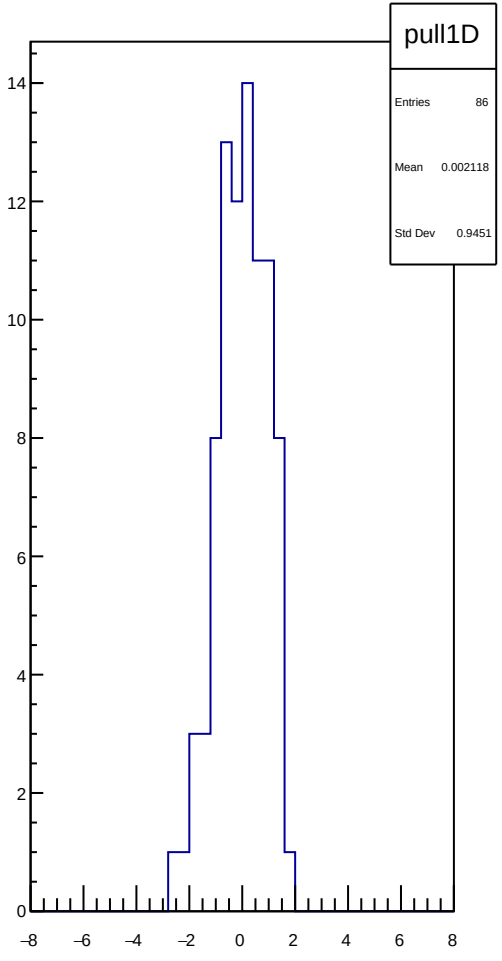

pull1D
Entries 86
Mean −0.06981
Std Dev 0.9234

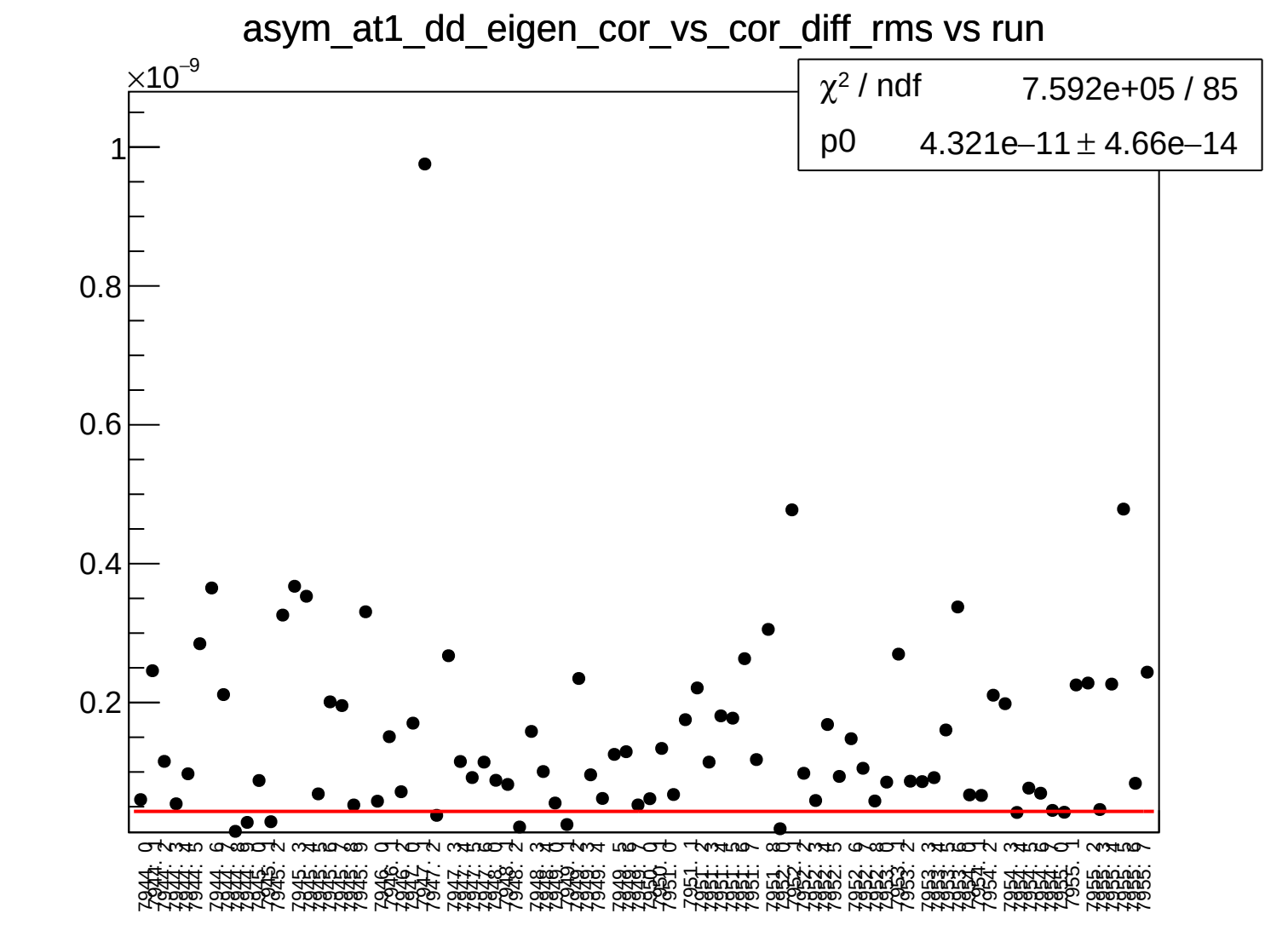

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.788e+05 / 85
p0 56.45 ± 0.04703
140
120
100
80
60
40
20

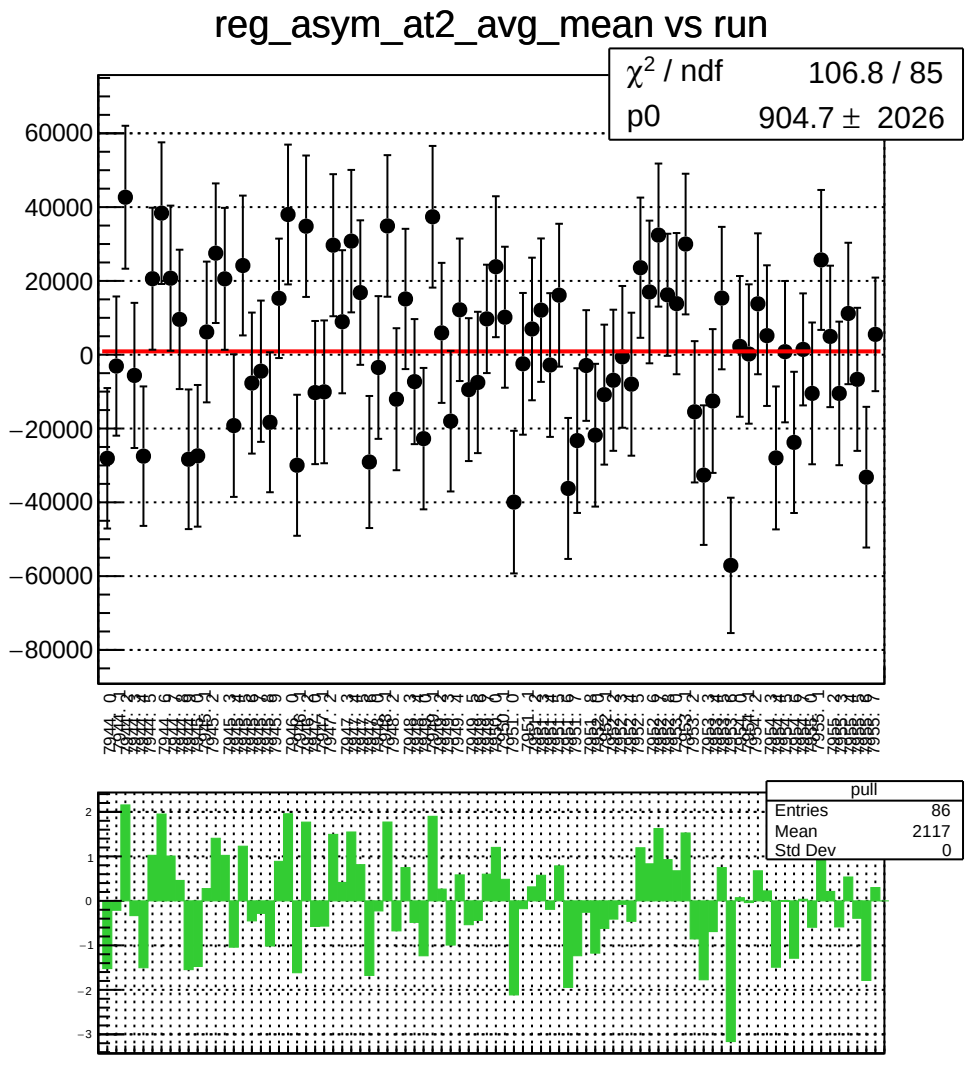

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.74 / 85
p0 −0.111 ± 0.06651
pull
Entries 86
Mean −8.037
Std Dev 0
pull1D
Entries 86
Mean −0.06981
Std Dev 0.9234

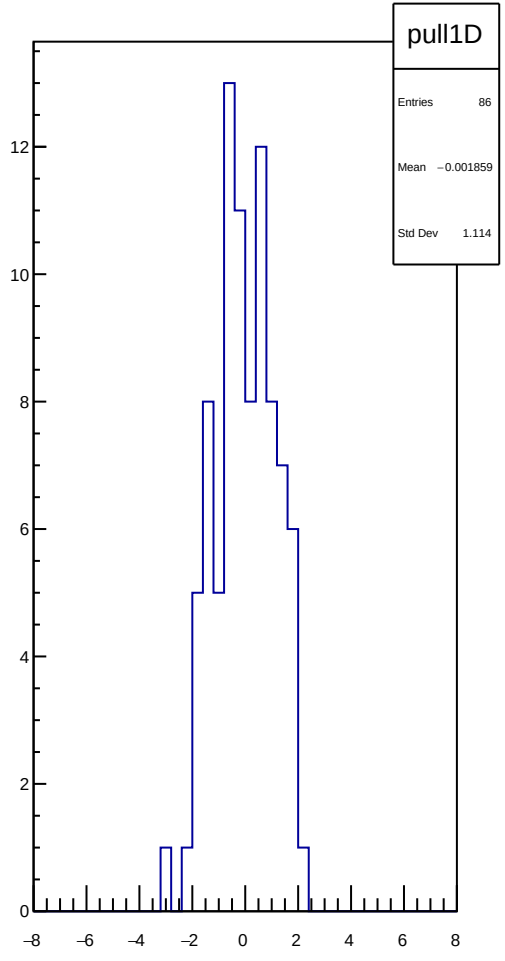

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.788e+05 / 85
p0 56.45 ± 0.04703
140
120
100
80
60
40
20

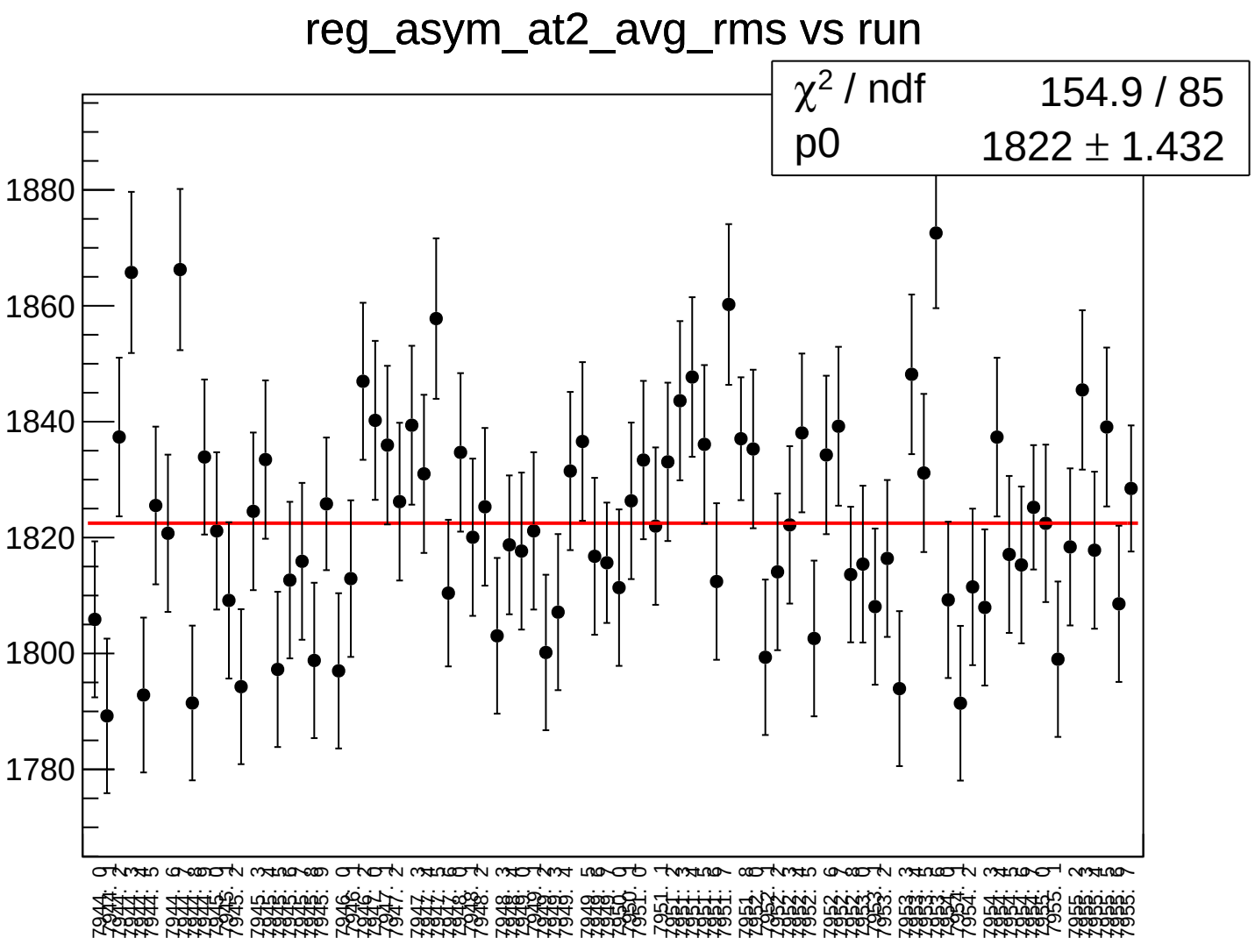

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.82 / 85
p0 −2.277e−14 ± 6.59e−14
pull
Entries 86
Mean −139.5
Std Dev 0

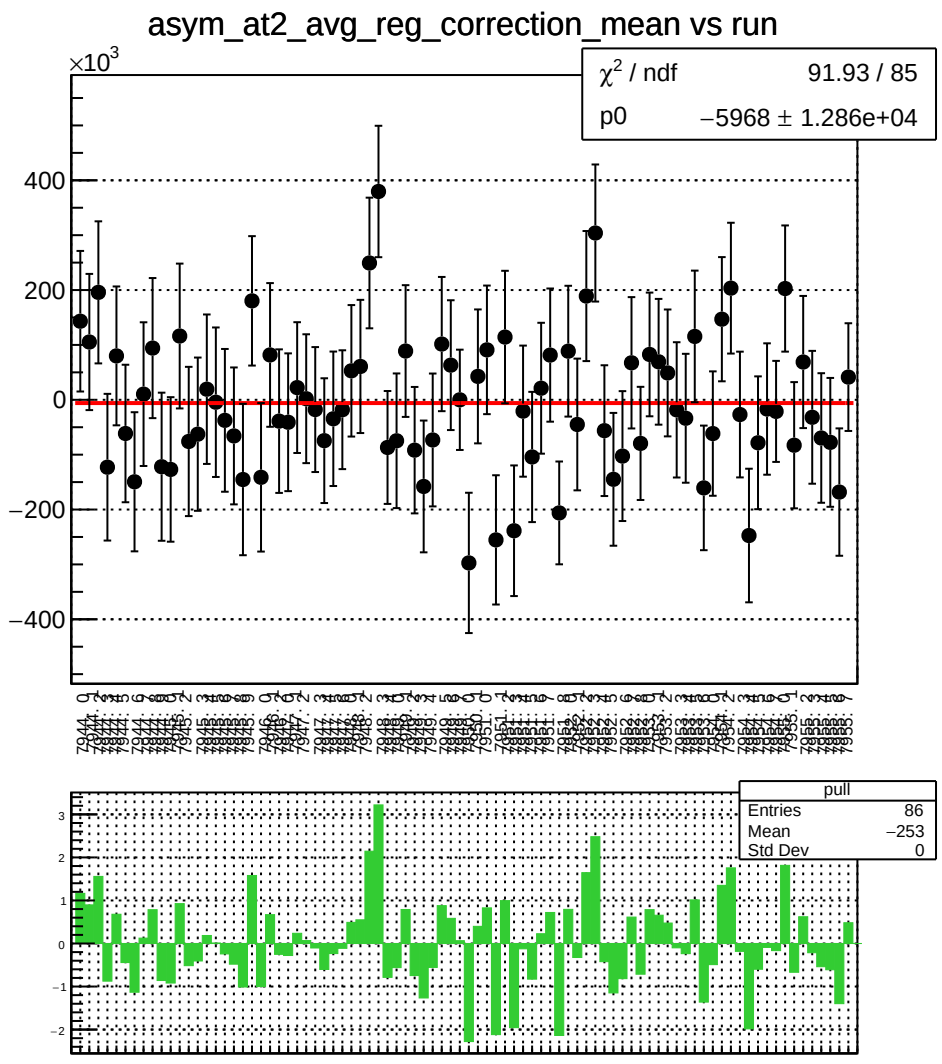

pull1D
Entries 86
Mean 0.002118
Std Dev 0.9451

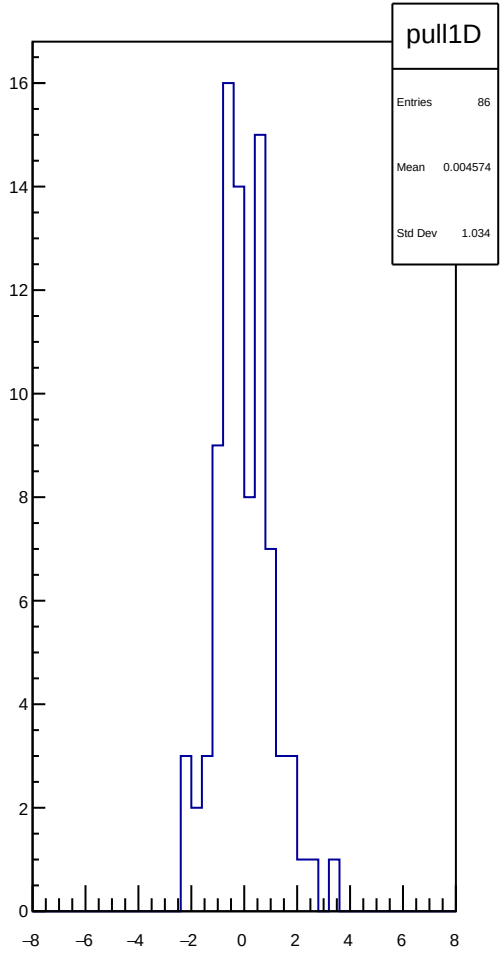

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.592e+05 / 85
p0 4.321e−11 ± 4.66e−14
1
0.8
0.6
0.4
0.2

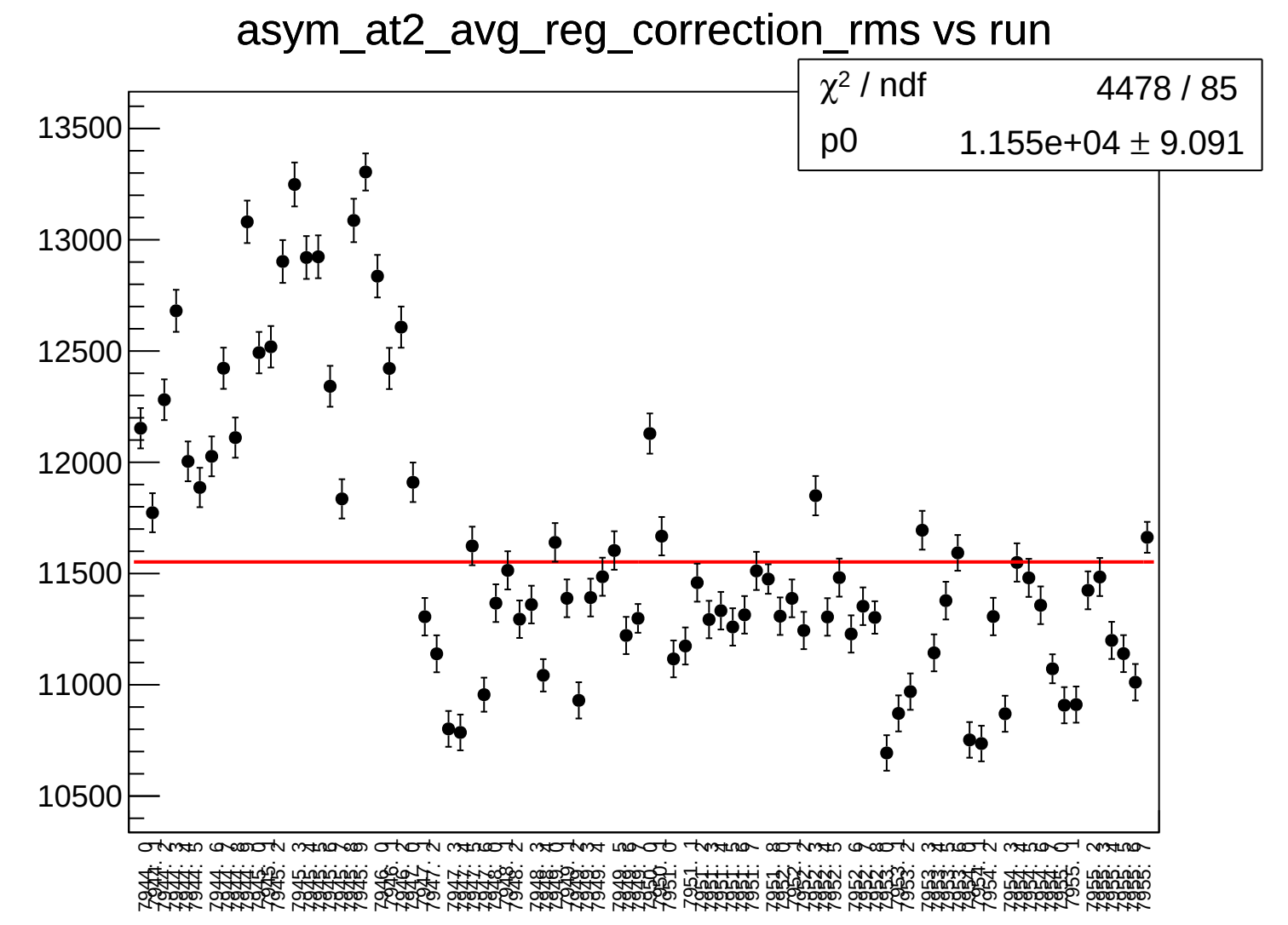

reg_asym_at2_avg_mean vs run
χ² / ndf 106.8 / 85
p0 904.7 ± 2026
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 2117
Std Dev 0
2
1
0
−1
−2
−3

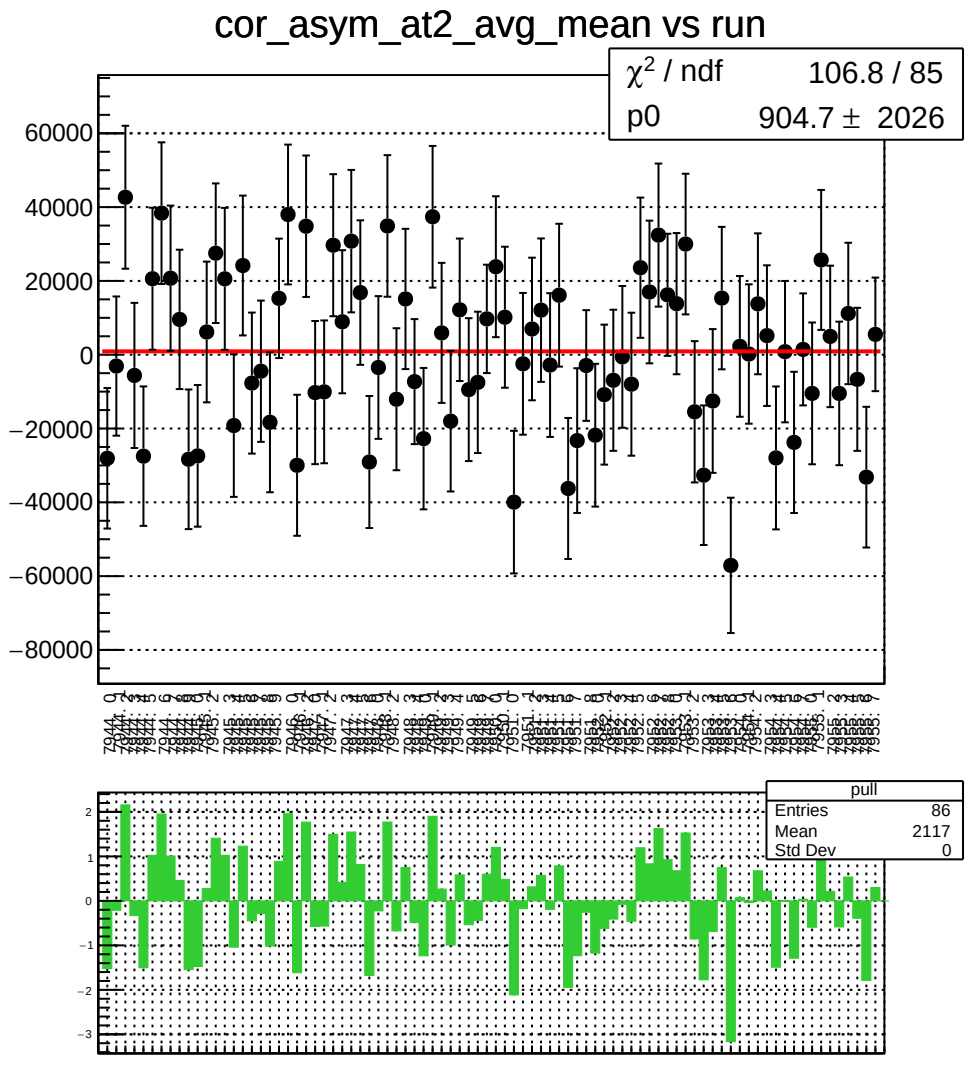

pull1D
Entries 86
Mean −0.001859
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

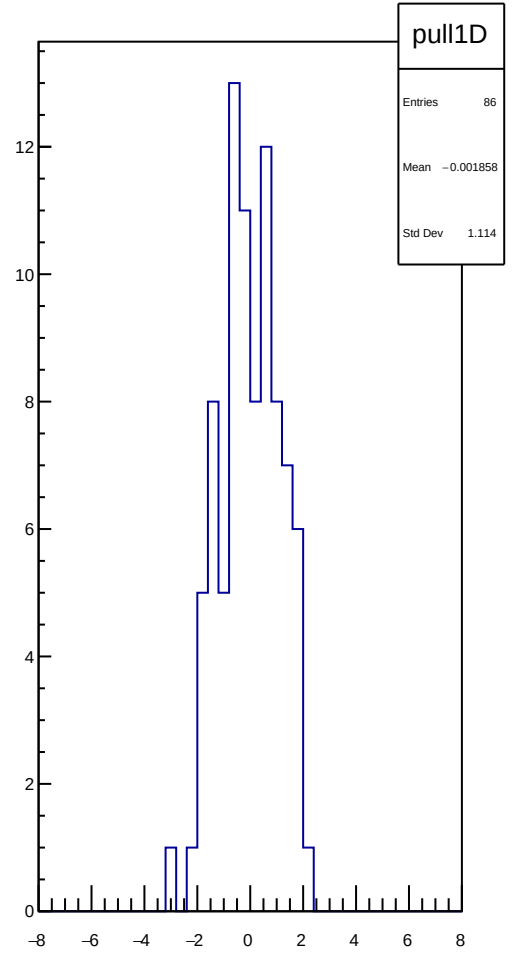

reg_asym_at2_avg_rms vs run
χ² / ndf 154.9 / 85
p0 1822 ± 1.432
1880
1860
1840
1820
1800
1780

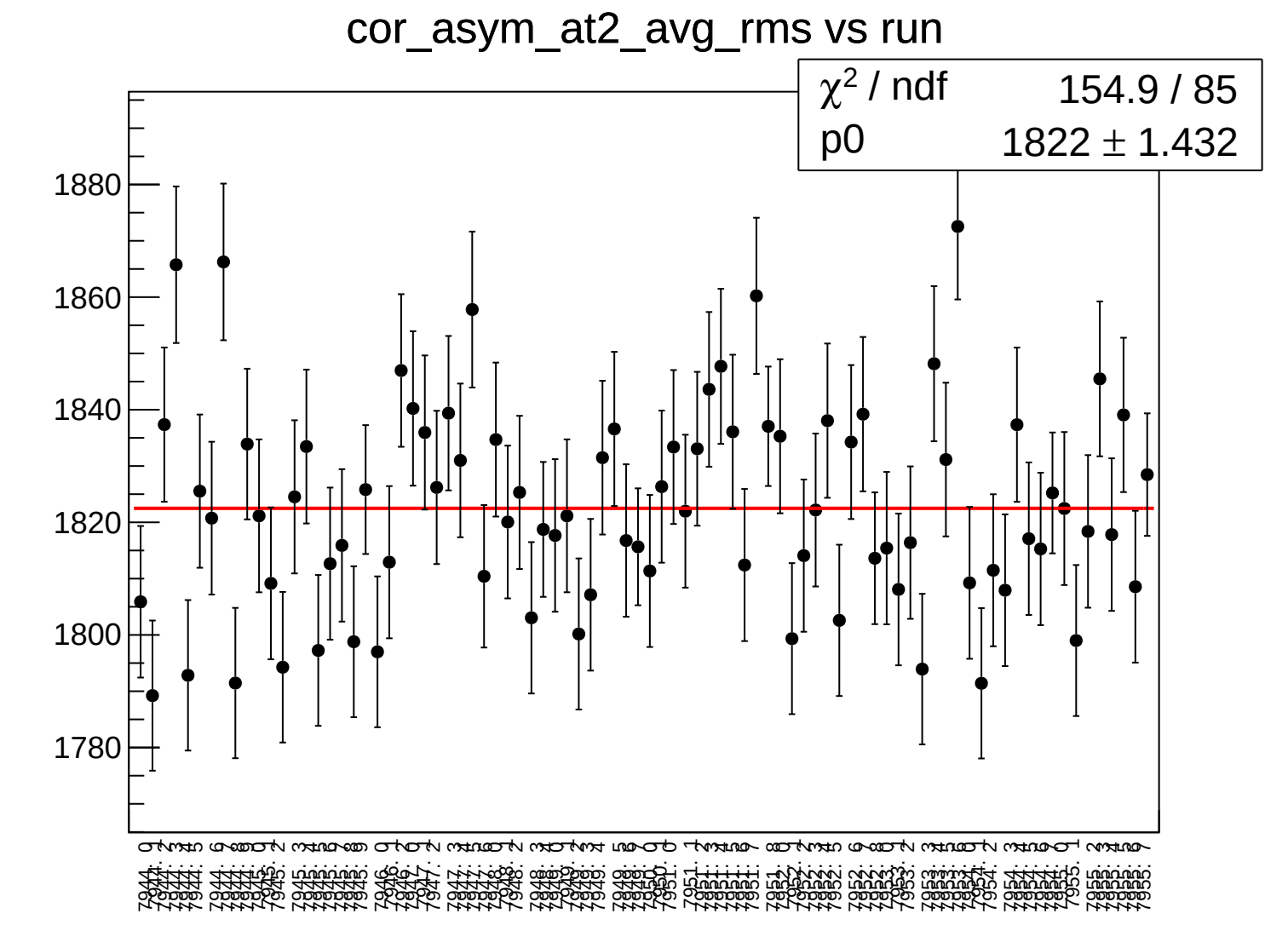

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 91.93 / 85
p0 −5968 ± 1.286e+04
400
200
0
−200
−400
pull
Entries 86
Mean −253
Std Dev 0
3
2
1
0
−1
−2

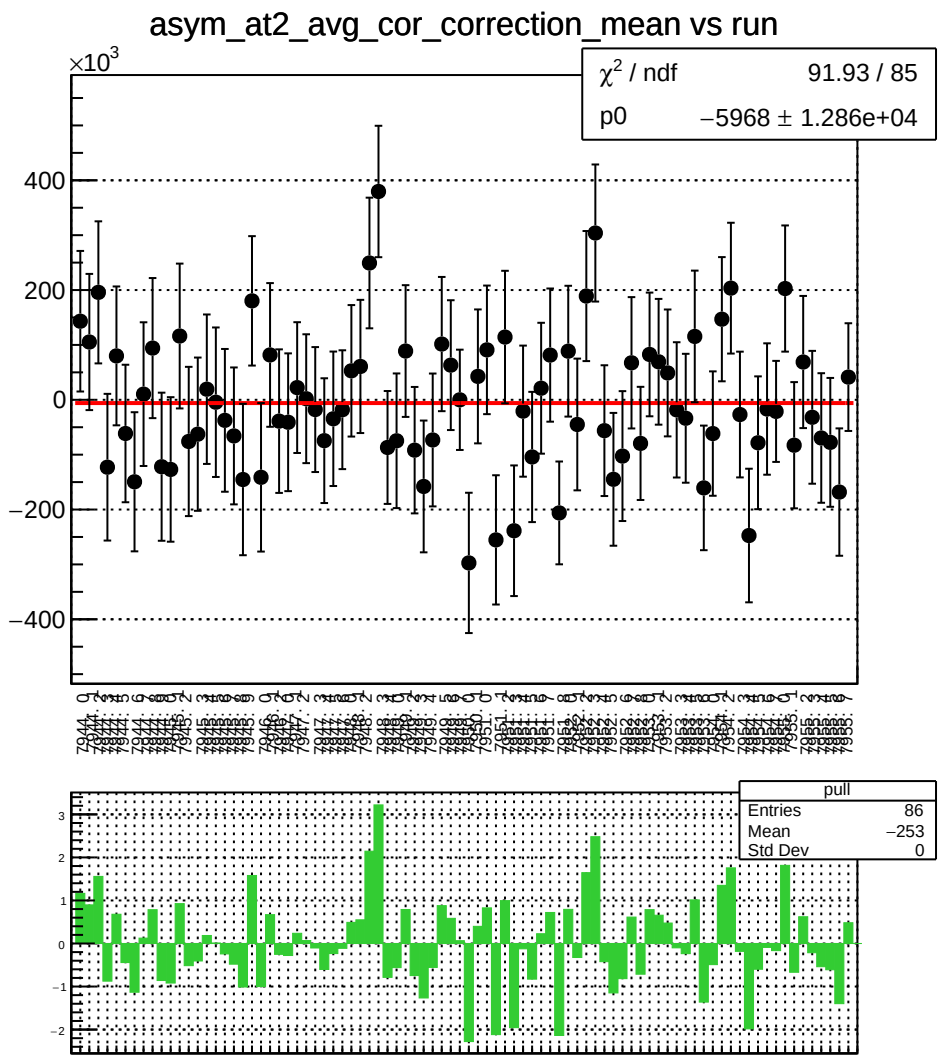

pull1D
Entries 86
Mean 0.004574
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

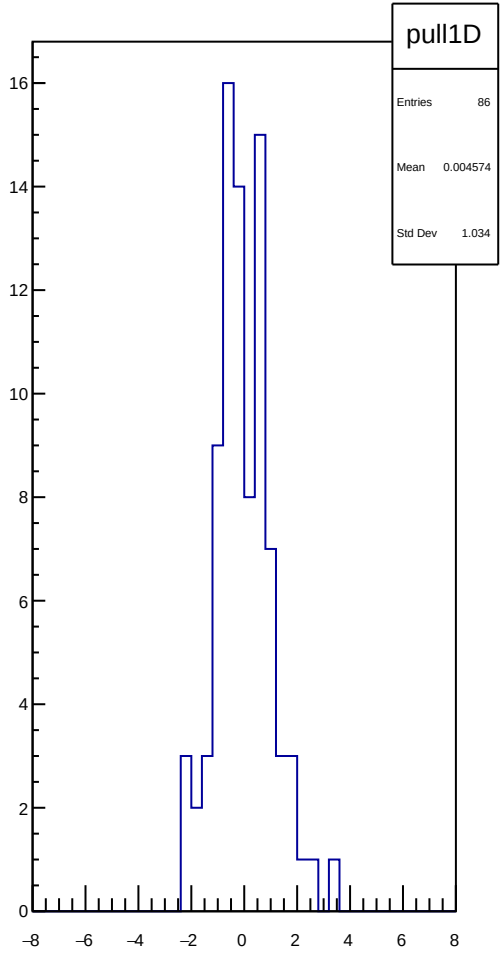

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 4478 / 85
p0 1.155e+04 ± 9.091
13500
13000
12500
12000
11500
11000
10500

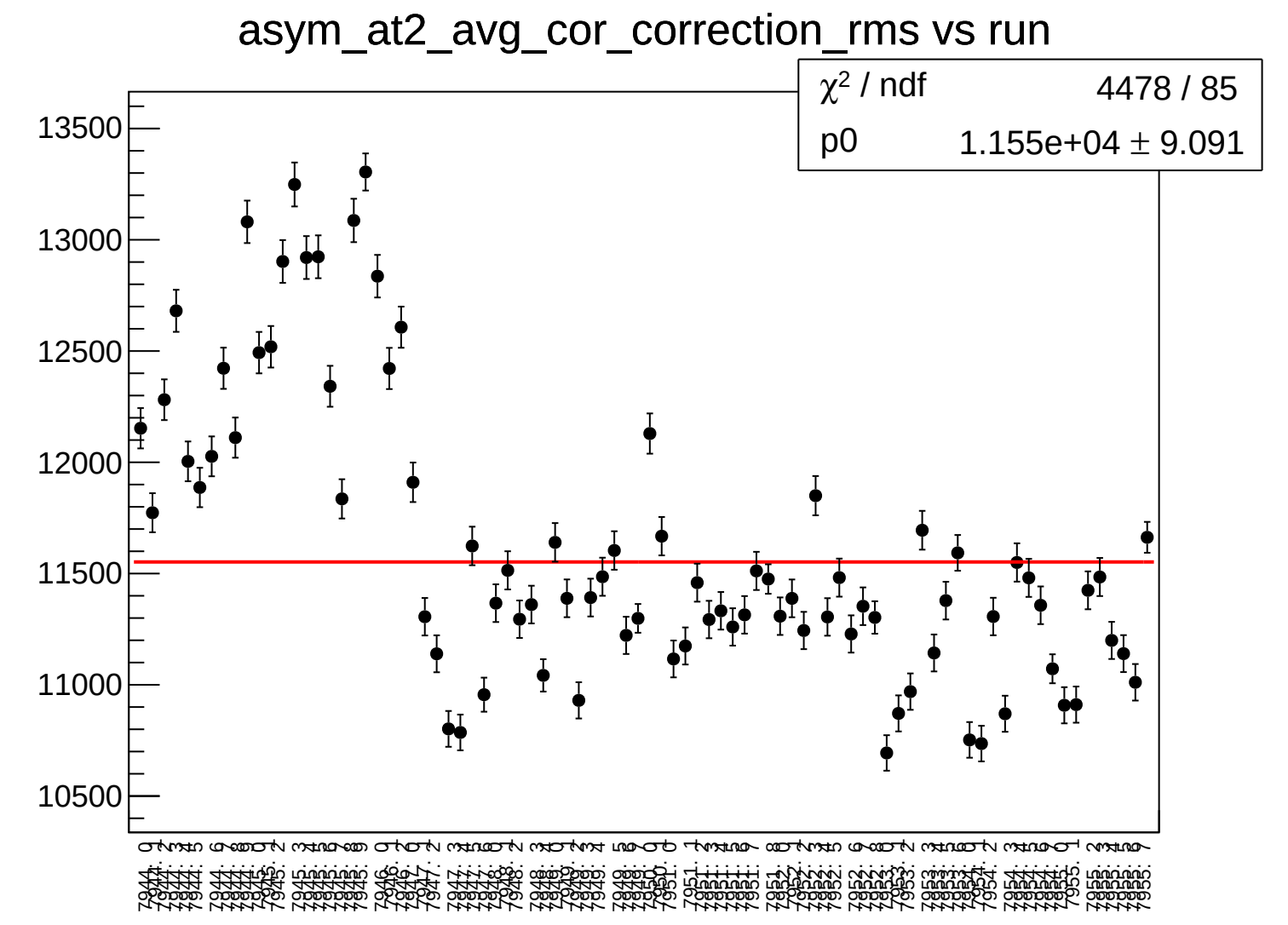

cor_asym_at2_avg_mean vs run
χ² / ndf 106.8 / 85
p0 904.7 ± 2026
pull
Entries 86
Mean 2117
Std Dev 0

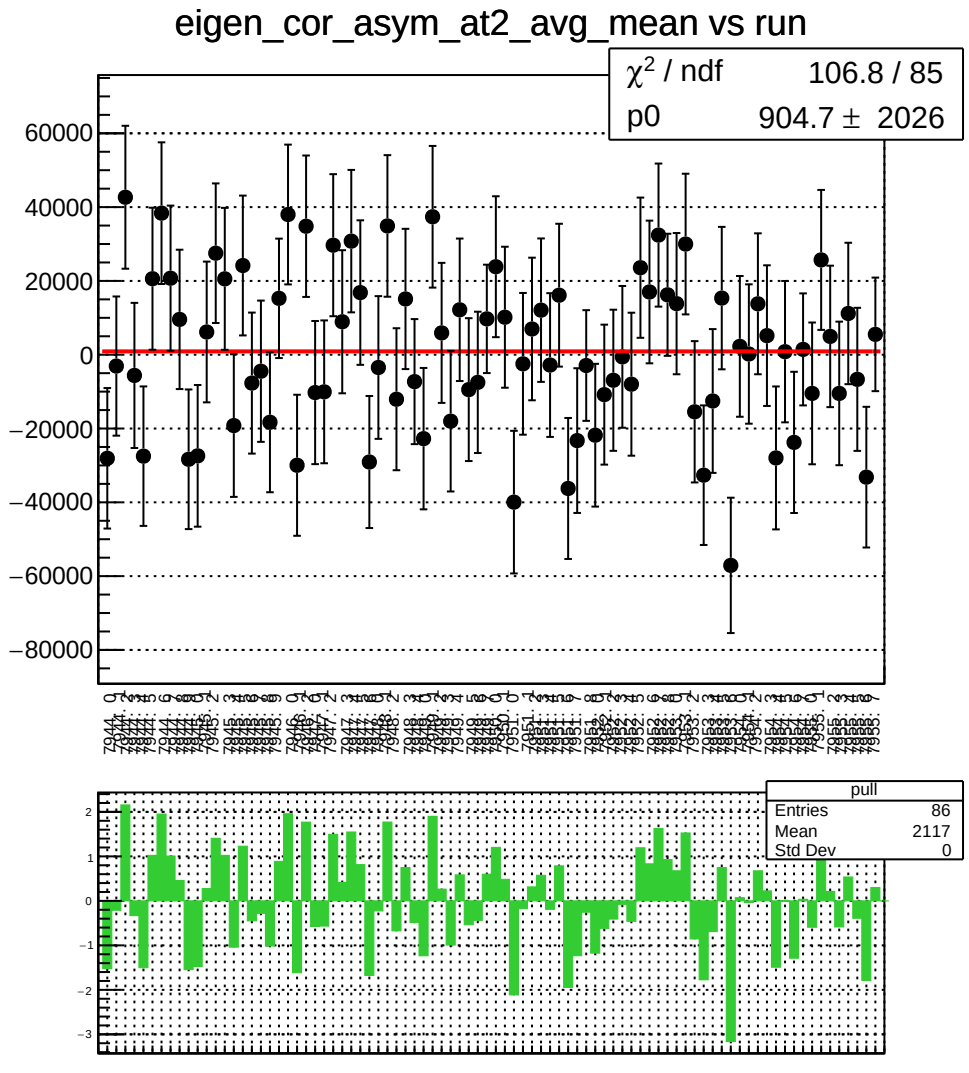

pull1D
Entries 86
Mean −0.001858
Std Dev 1.114

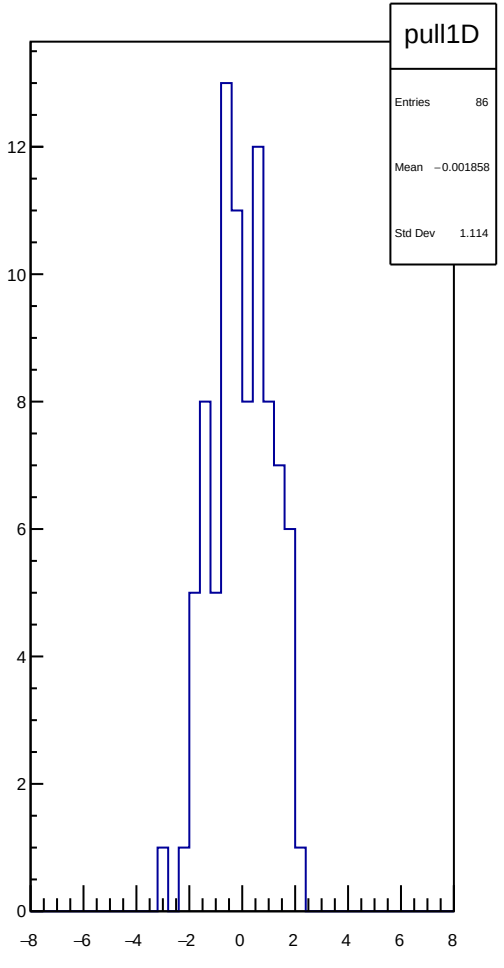

cor_asym_at2_avg_rms vs run
χ^2 / ndf 154.9 / 85
p0 1822 ± 1.432
1880
1860
1840
1820
1800
1780

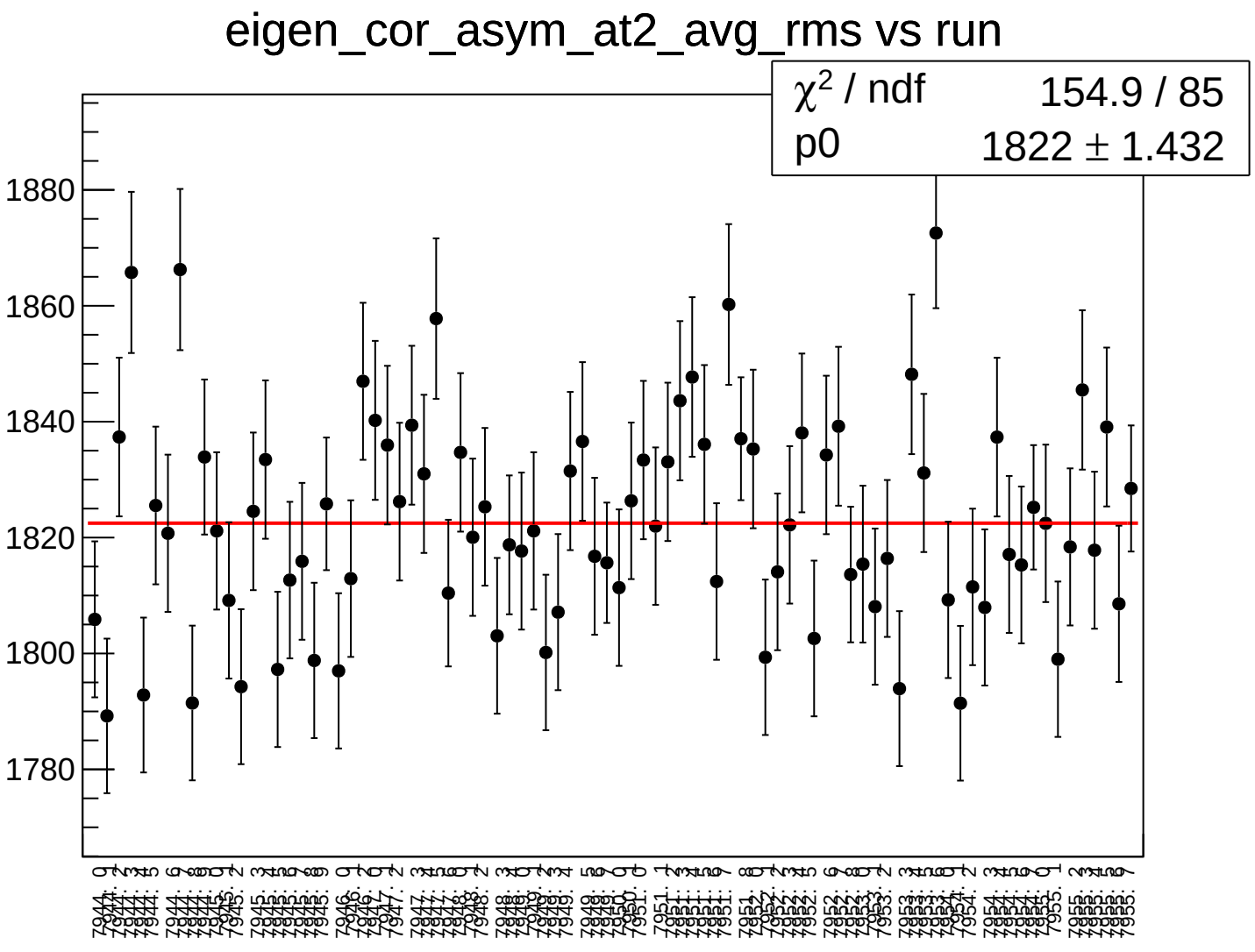

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 91.93 / 85
p0 −5968 ± 1.286e+04
400
200
0
−200
−400
pull
Entries 86
Mean −253
Std Dev 0
3
2
1
0
−1
−2

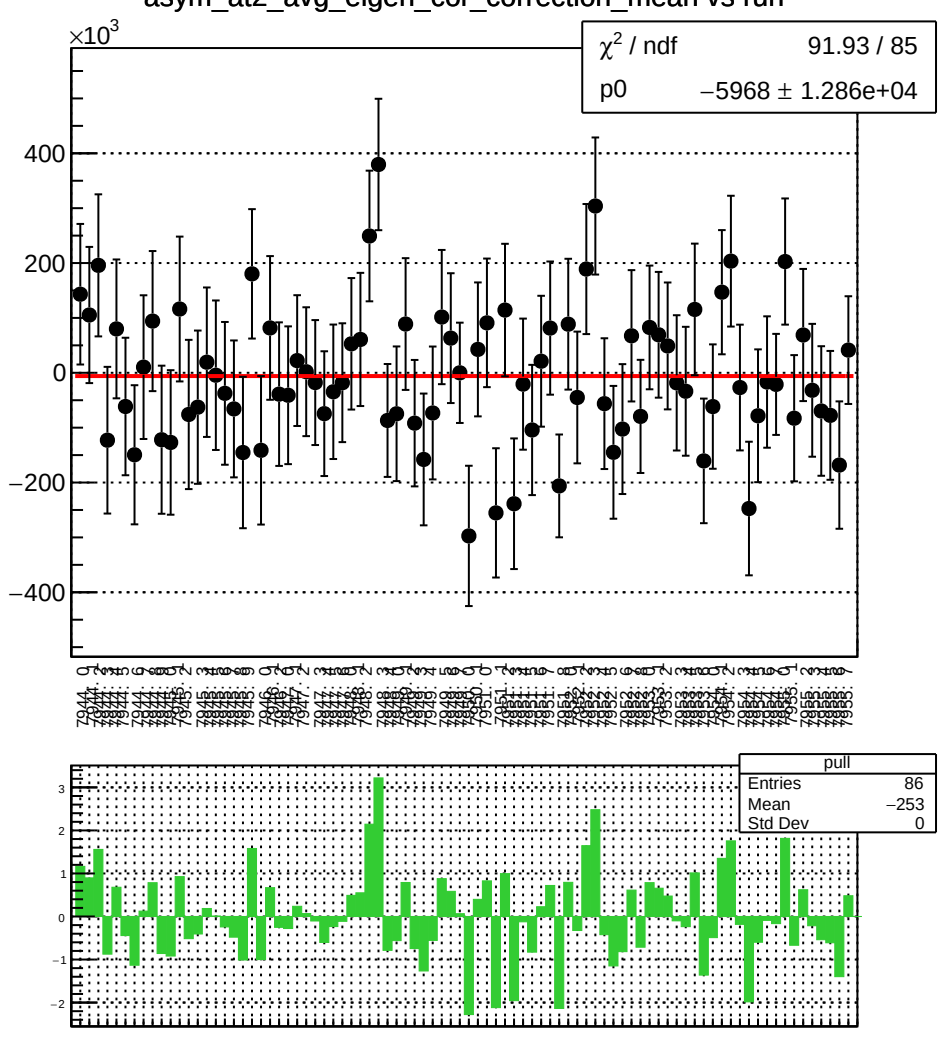

pull1D
Entries 86
Mean 0.004574
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

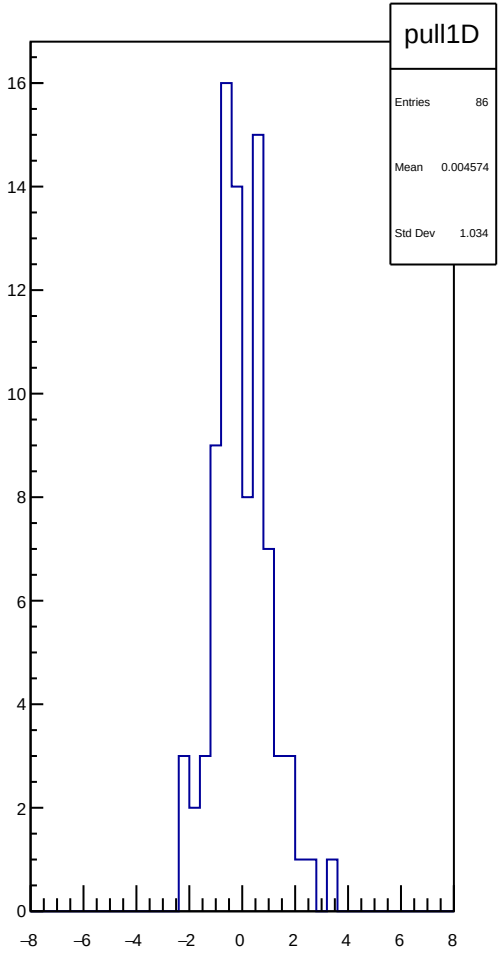

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 4478 / 85
p0 1.155e+04 ± 9.091
13500
13000
12500
12000
11500
11000
10500

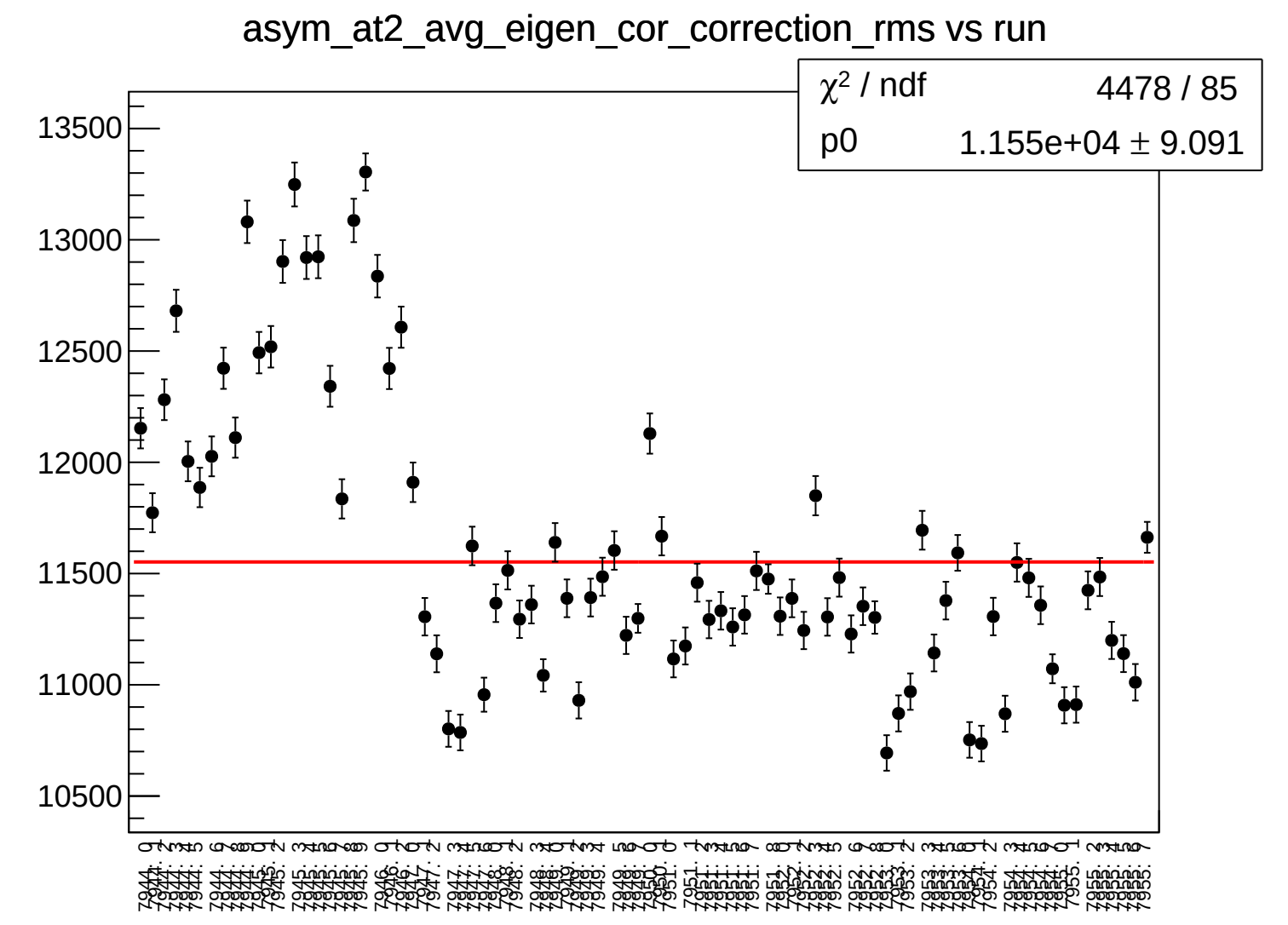

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 106.8 / 85
p0 904.7 ± 2026
pull
Entries 86
Mean 2117
Std Dev 0

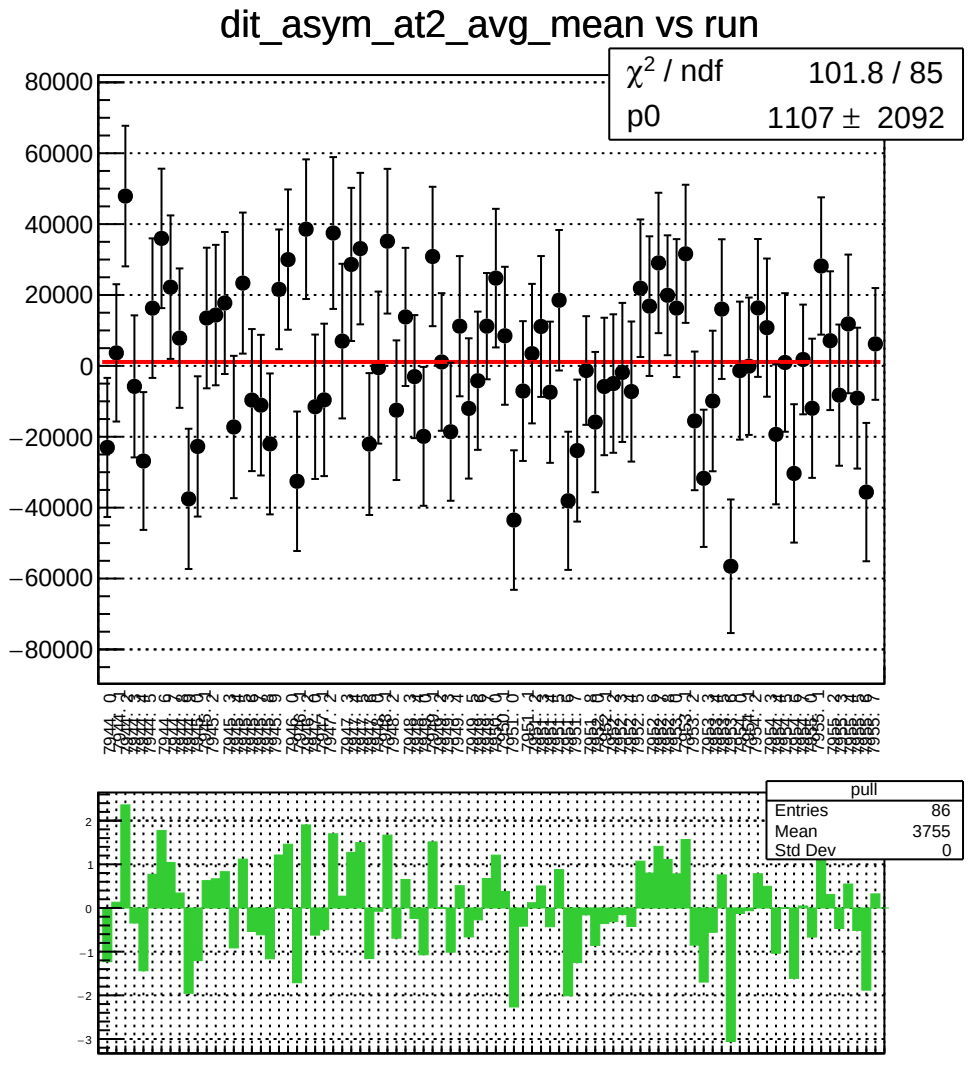

pull1D
Entries 86
Mean −0.001858
Std Dev 1.114

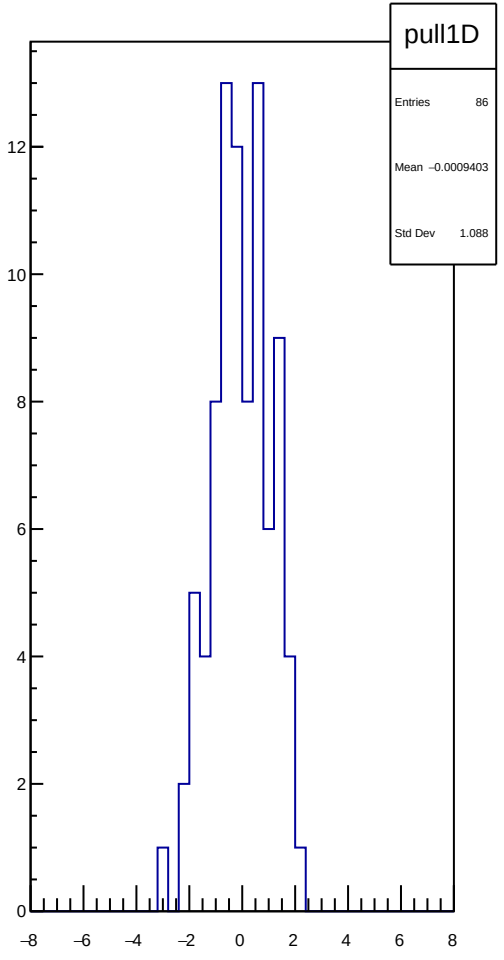

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 154.9 / 85
p0 1822 ± 1.432
1880
1860
1840
1820
1800
1780

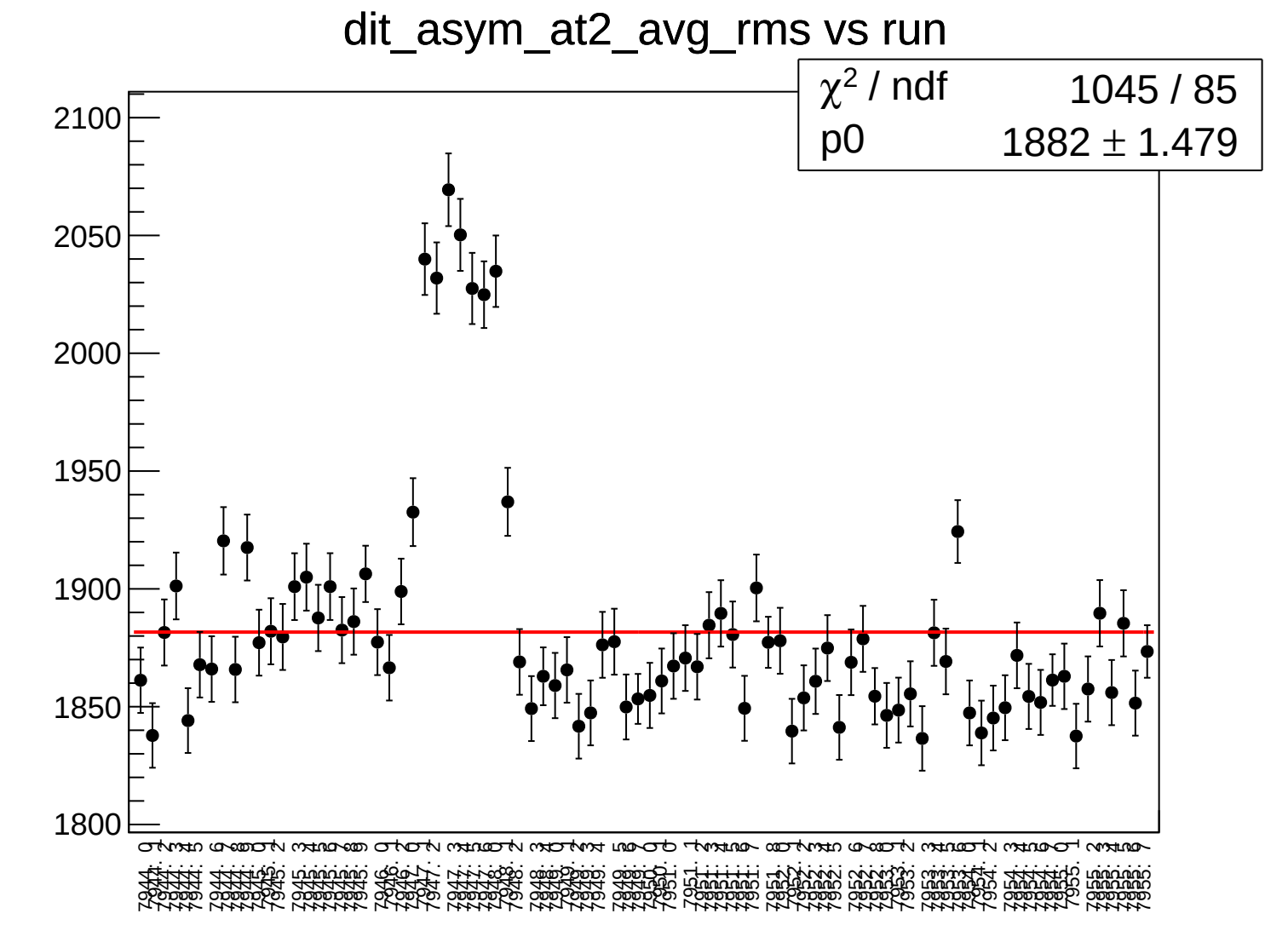

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.93 / 85
p0 −5968 ± 1.286e+04
400
200
0
−200
−400
pull
Entries 86
Mean −253
Std Dev 0
3
2
1
0
−1
−2

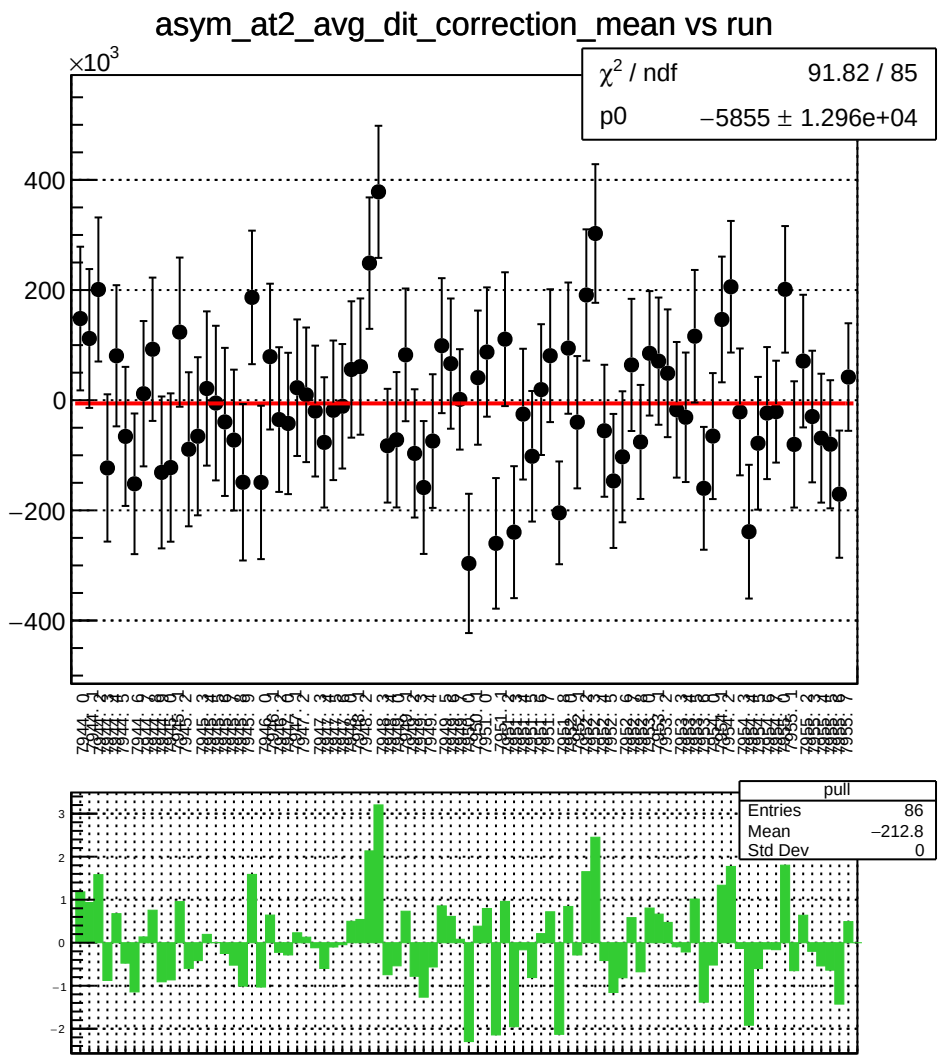

pull1D
Entries 86
Mean 0.004574
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

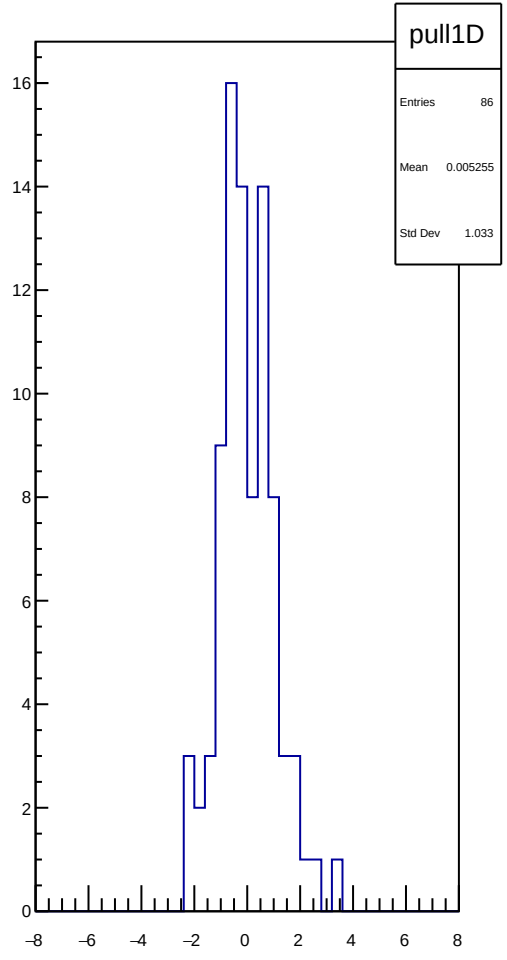

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4478 / 85
p0 1.155e+04 ± 9.091
13500
13000
12500
12000
11500
11000
10500

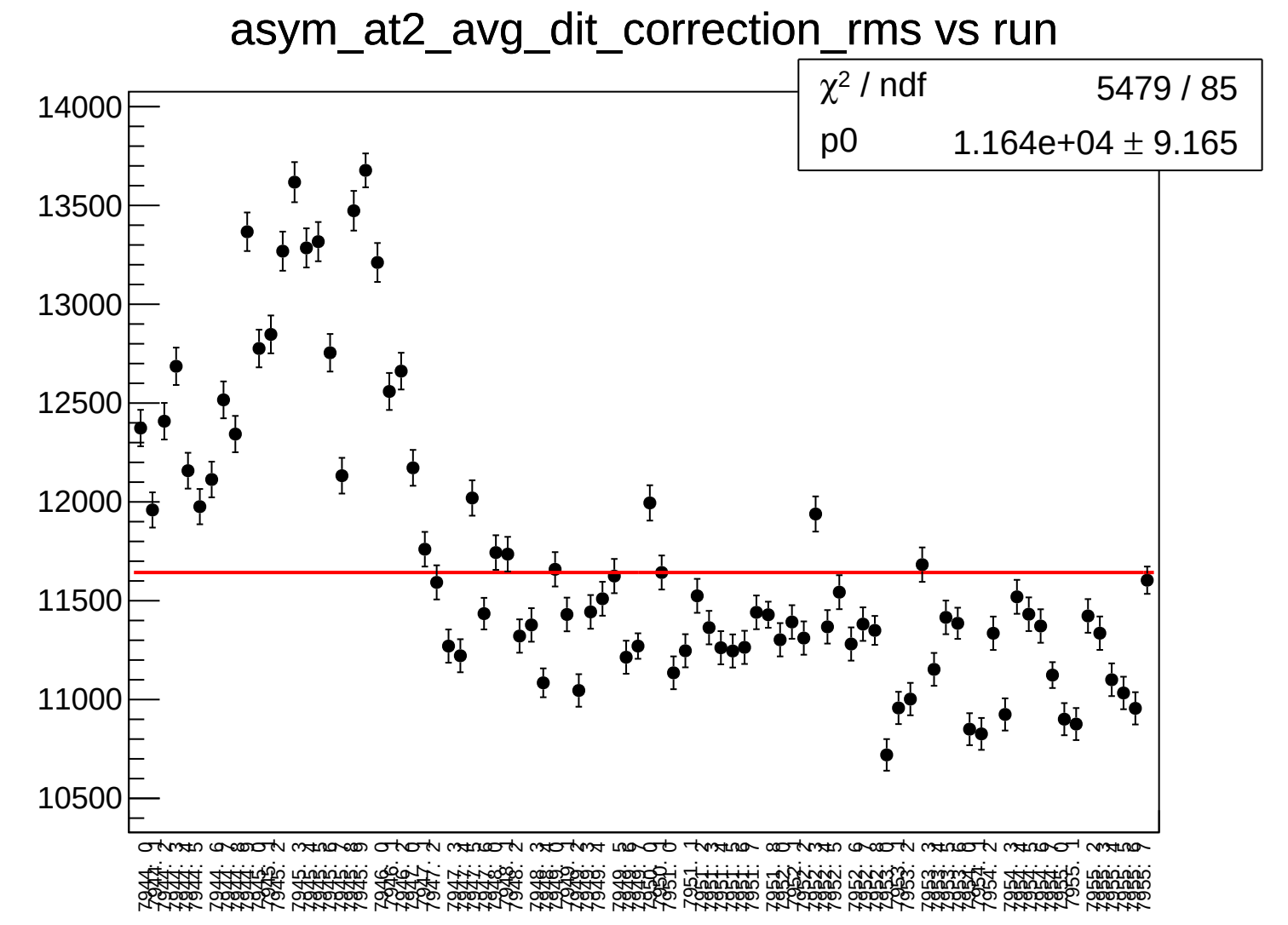

dit_asym_at2_avg_mean vs run
χ² / ndf 101.8 / 85
p0 1107 ± 2092
pull
Entries 86
Mean 3755
Std Dev 0

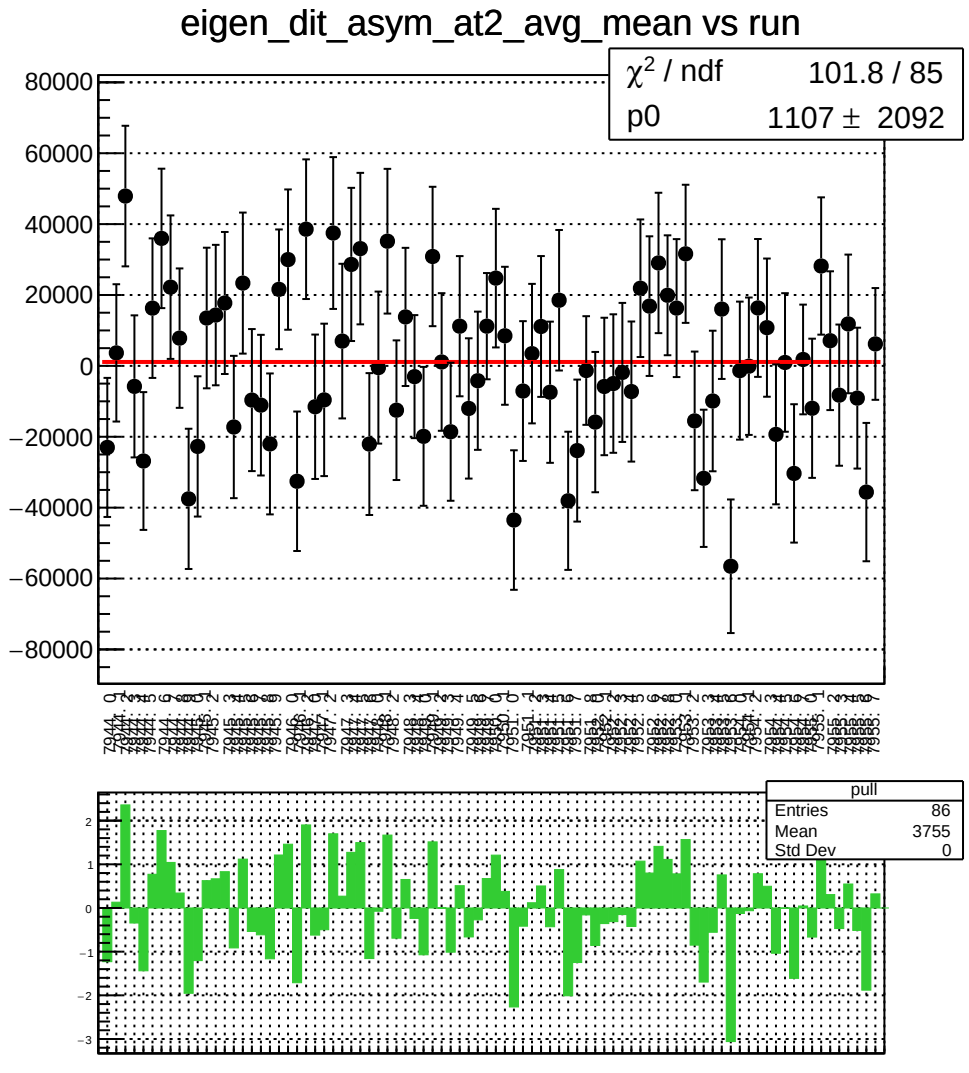

pull1D
Entries 86
Mean −0.0009403
Std Dev 1.088

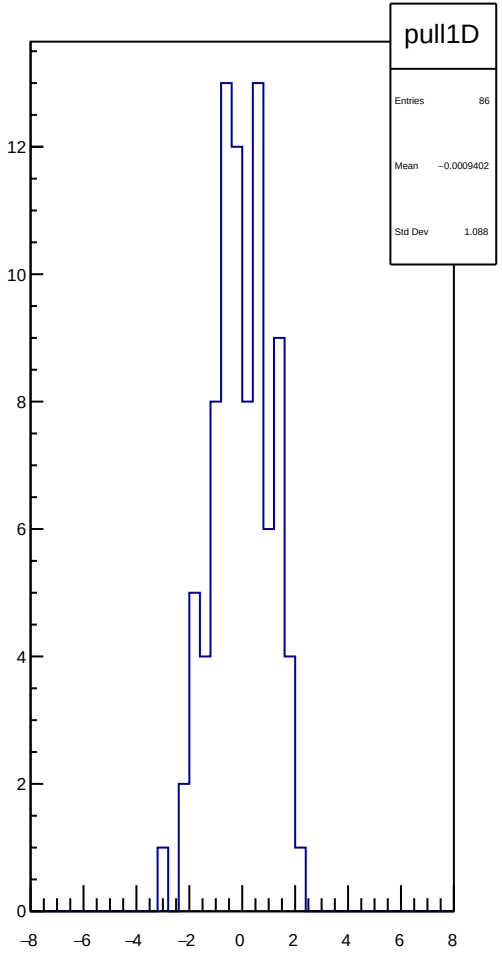

dit_asym_at2_avg_rms vs run
χ² / ndf 1045 / 85
p0 1882 ± 1.479
2100
2050
2000
1950
1900
1850
1800

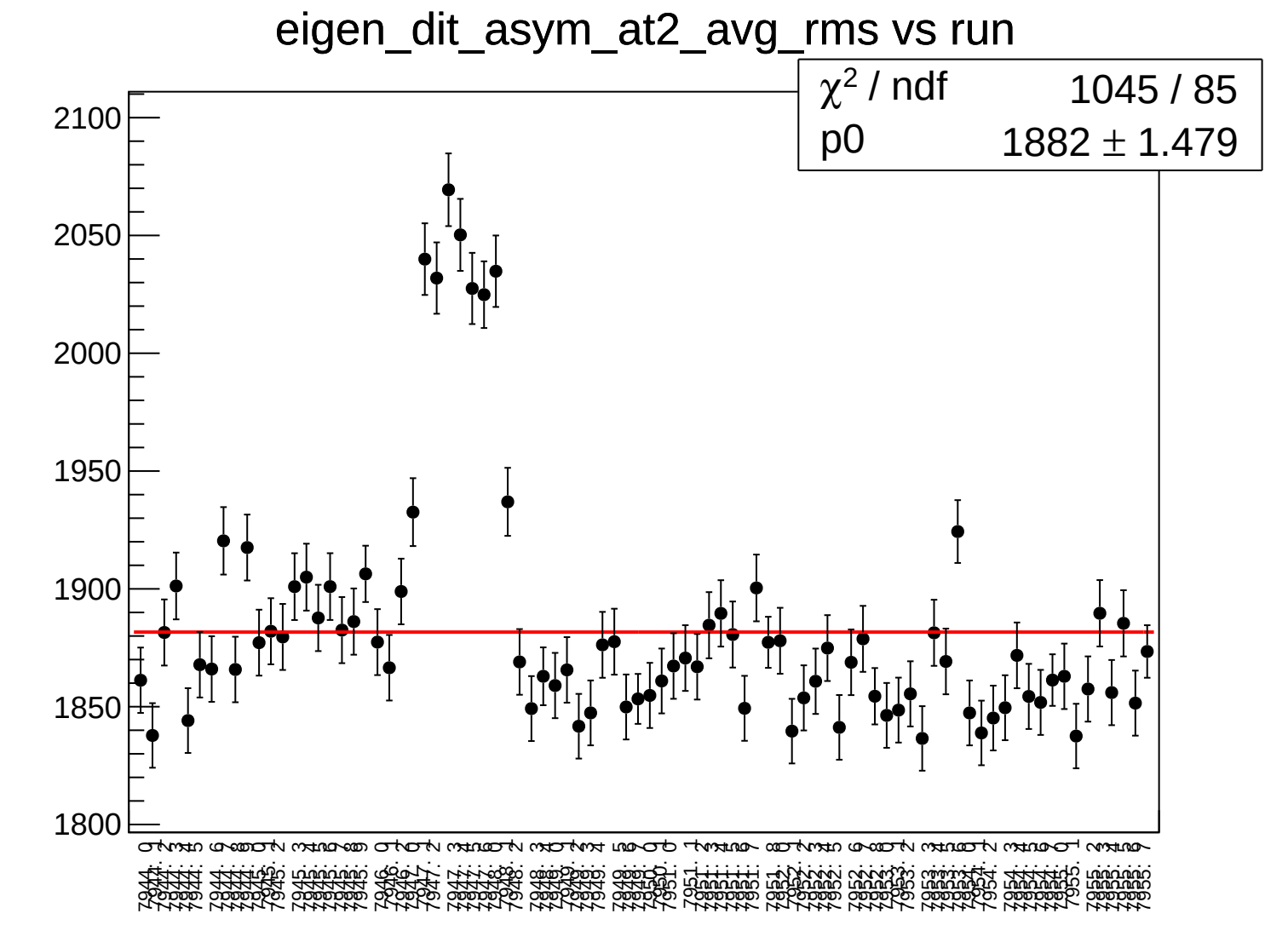

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.82 / 85
p0 −5855 ± 1.296e+04
400
200
0
−200
−400
pull
Entries 86
Mean −212.8
Std Dev 0
3
2
1
0
−1
−2

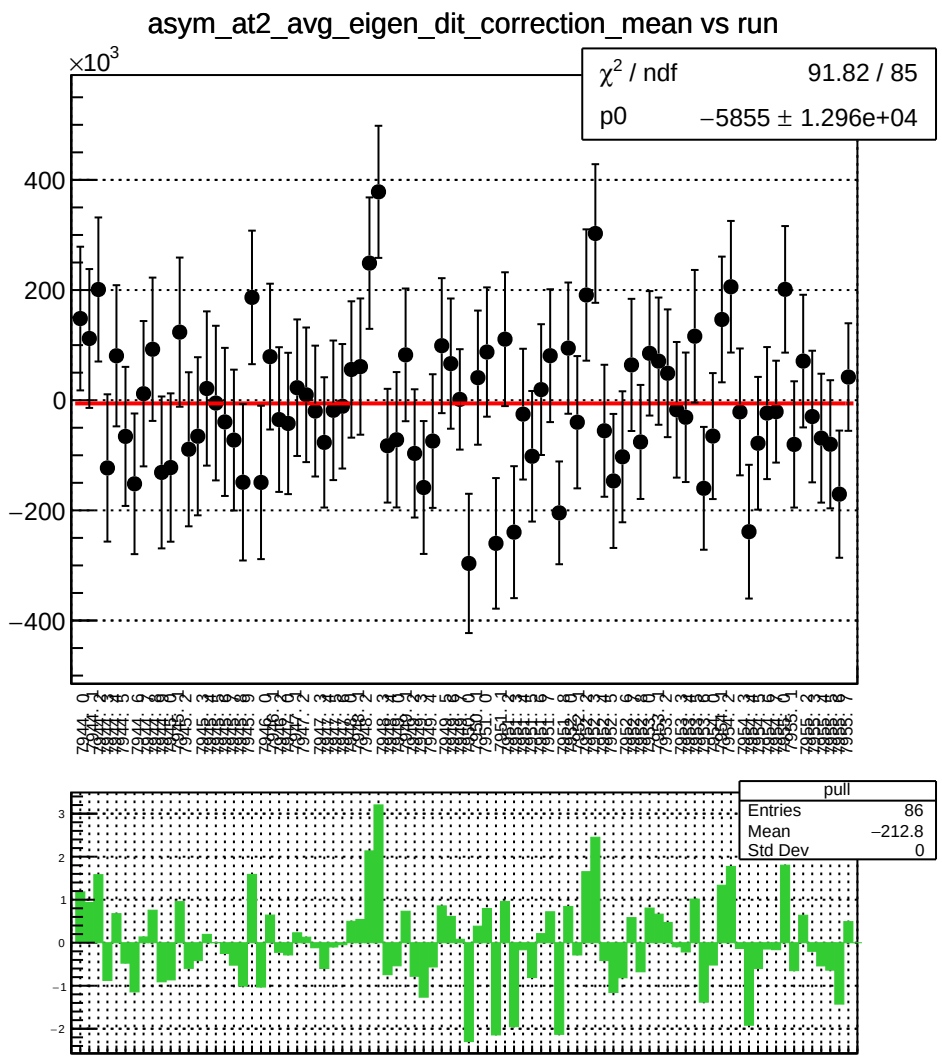

pull1D
Entries 86
Mean 0.005255
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

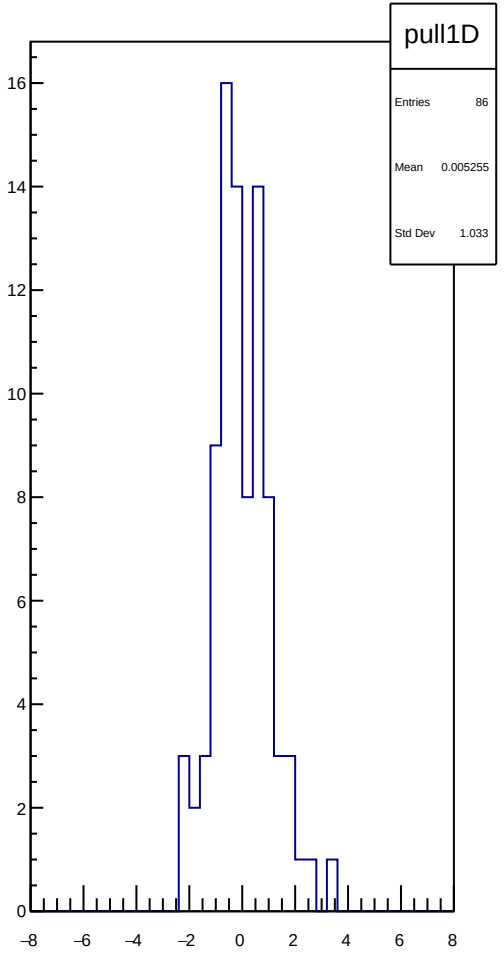

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 5479 / 85
p0 1.164e+04 ± 9.165
14000
13500
13000
12500
12000
11500
11000
10500

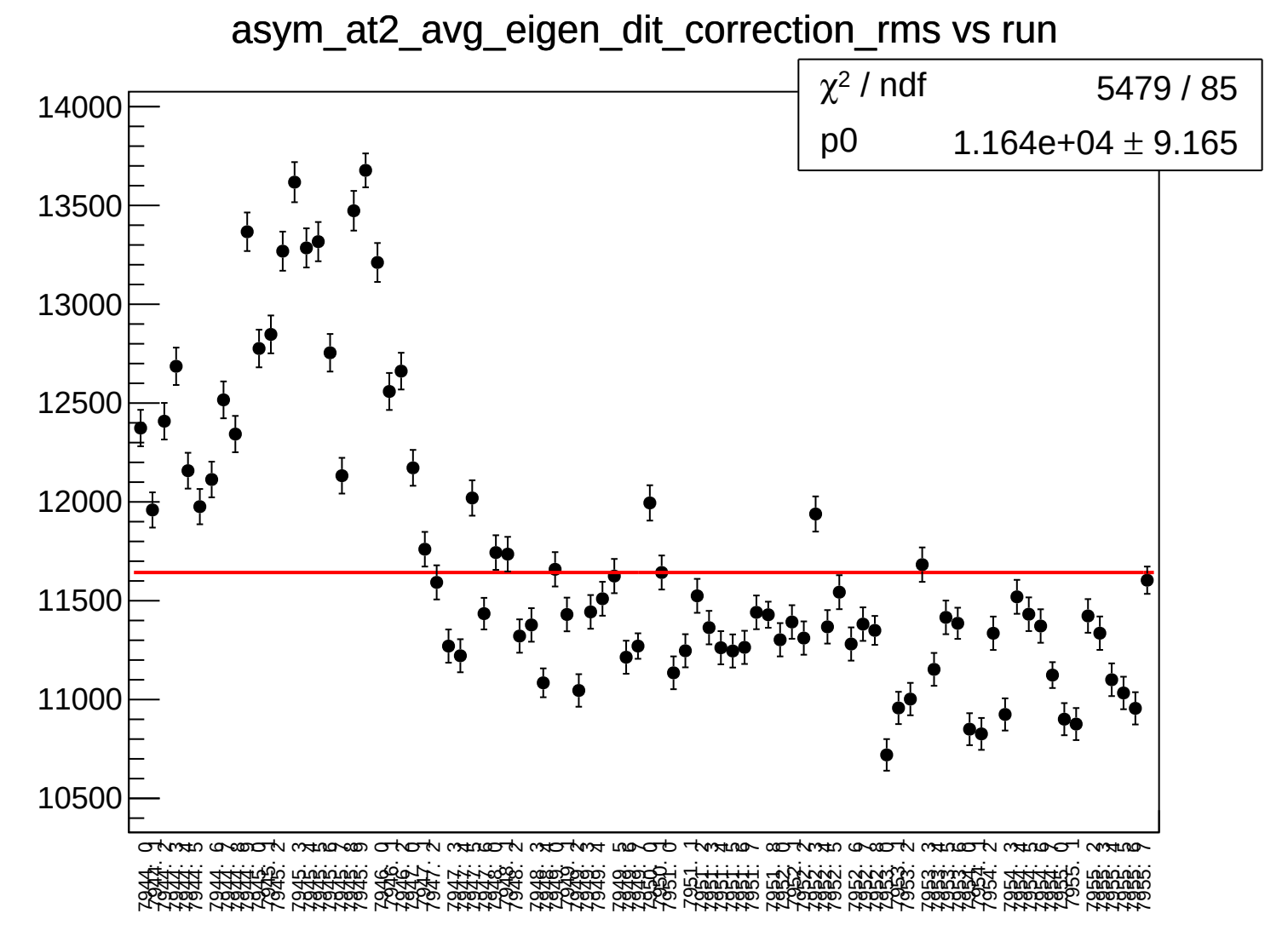

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 101.8 / 85
p0 1107 ± 2092
pull
Entries 86
Mean 3755
Std Dev 0

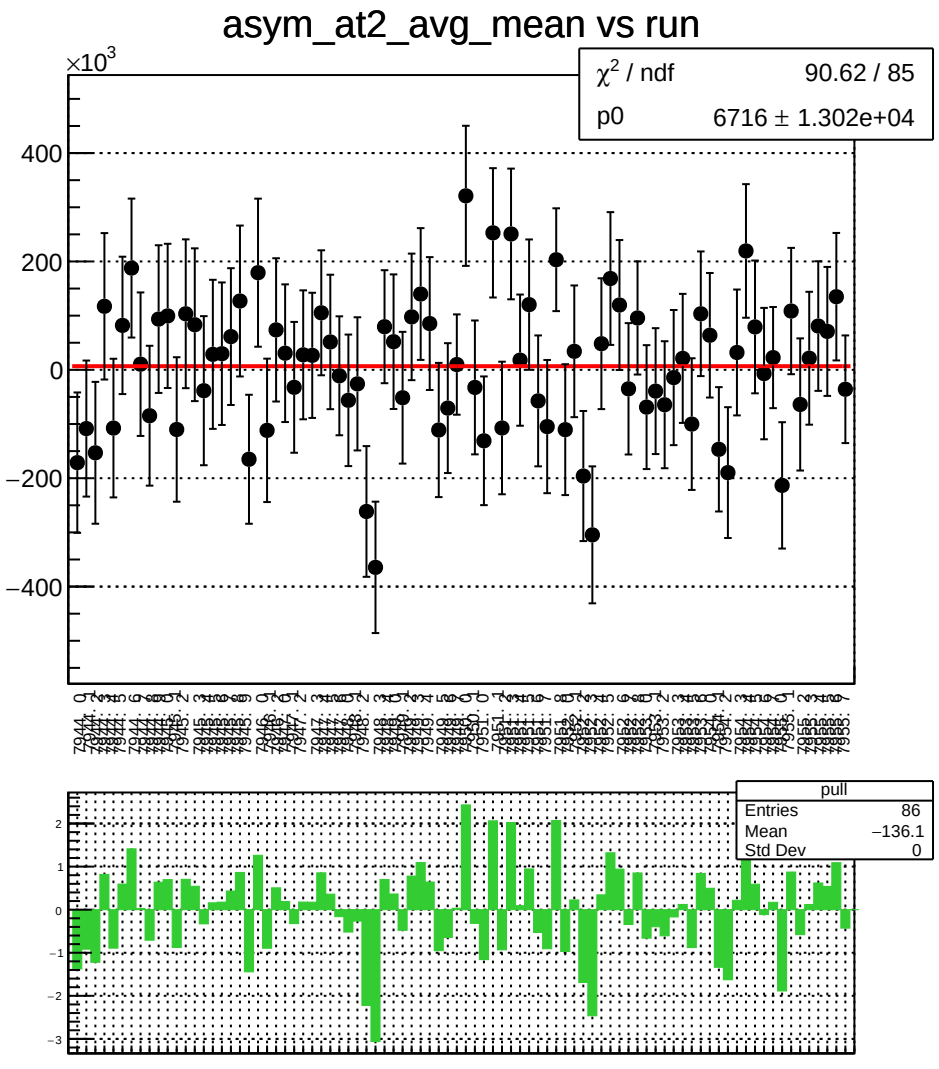

pull1D
Entries 86
Mean −0.0009402
Std Dev 1.088

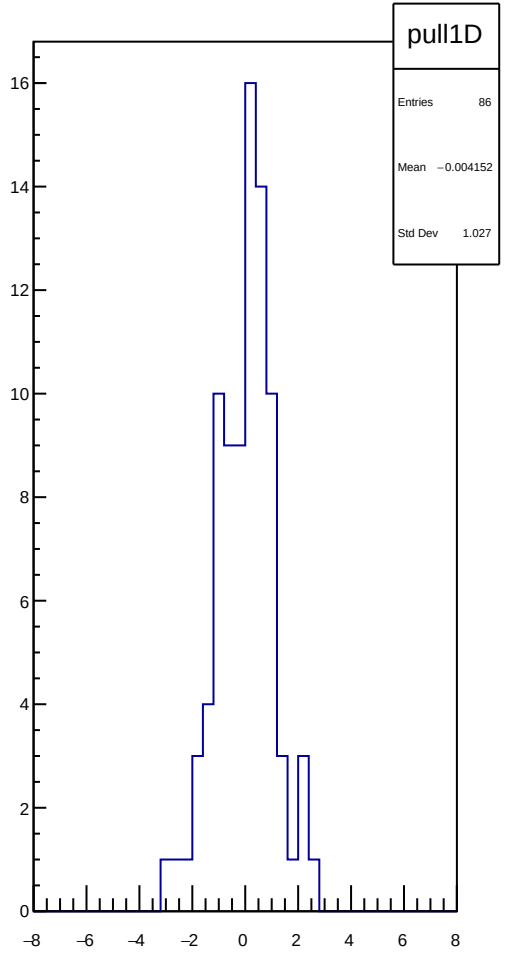

eigen_dit_asym_at2_avg_rms vs run
χ^2 / ndf 1045 / 85
p0 1882 ± 1.479
2100
2050
2000
1950
1900
1850
1800

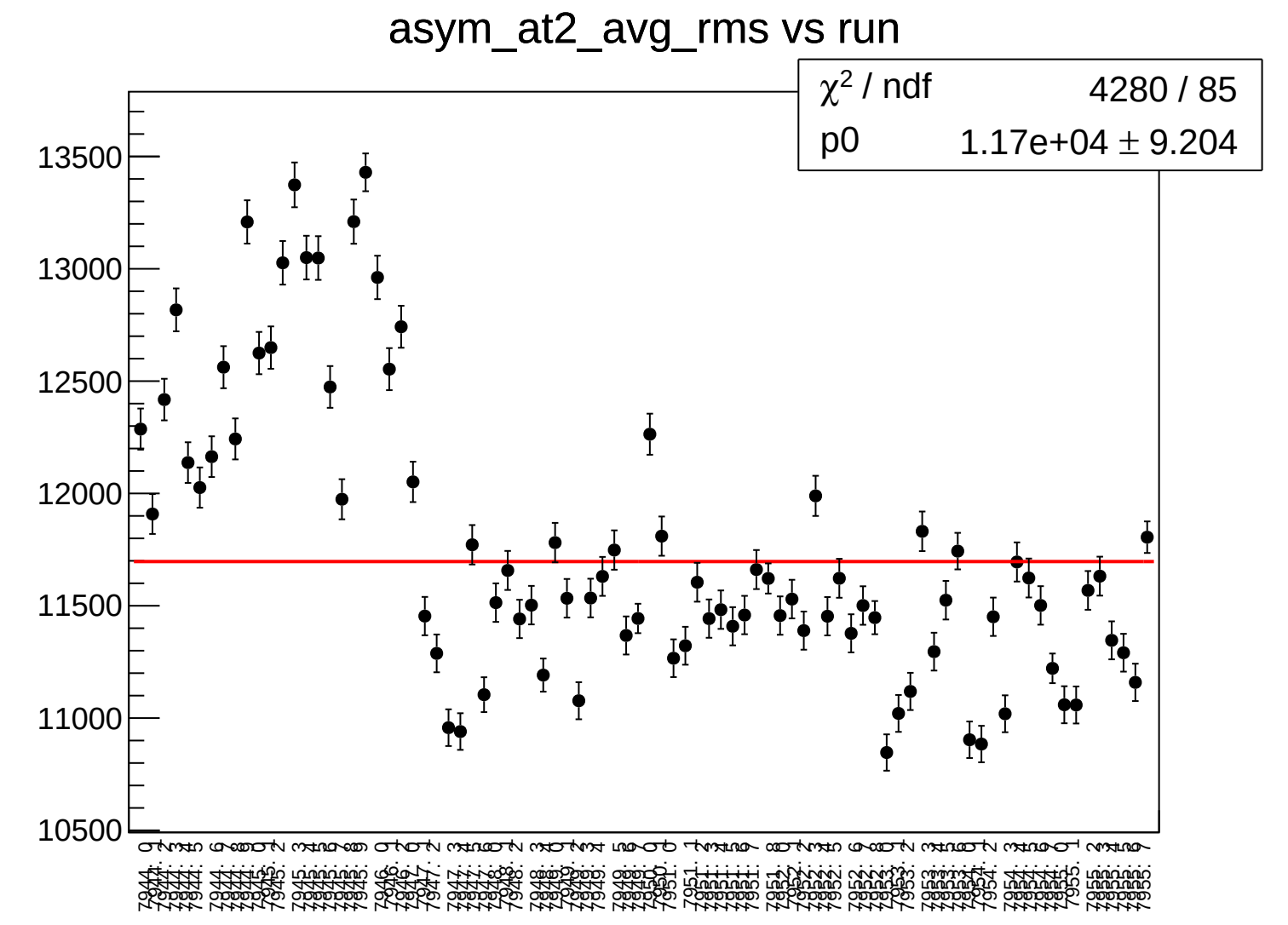

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.82 / 85
p0 −5855 ± 1.296e+04
400
200
0
−200
−400
pull
Entries 86
Mean −212.8
Std Dev 0
3
2
1
0
−1
−2

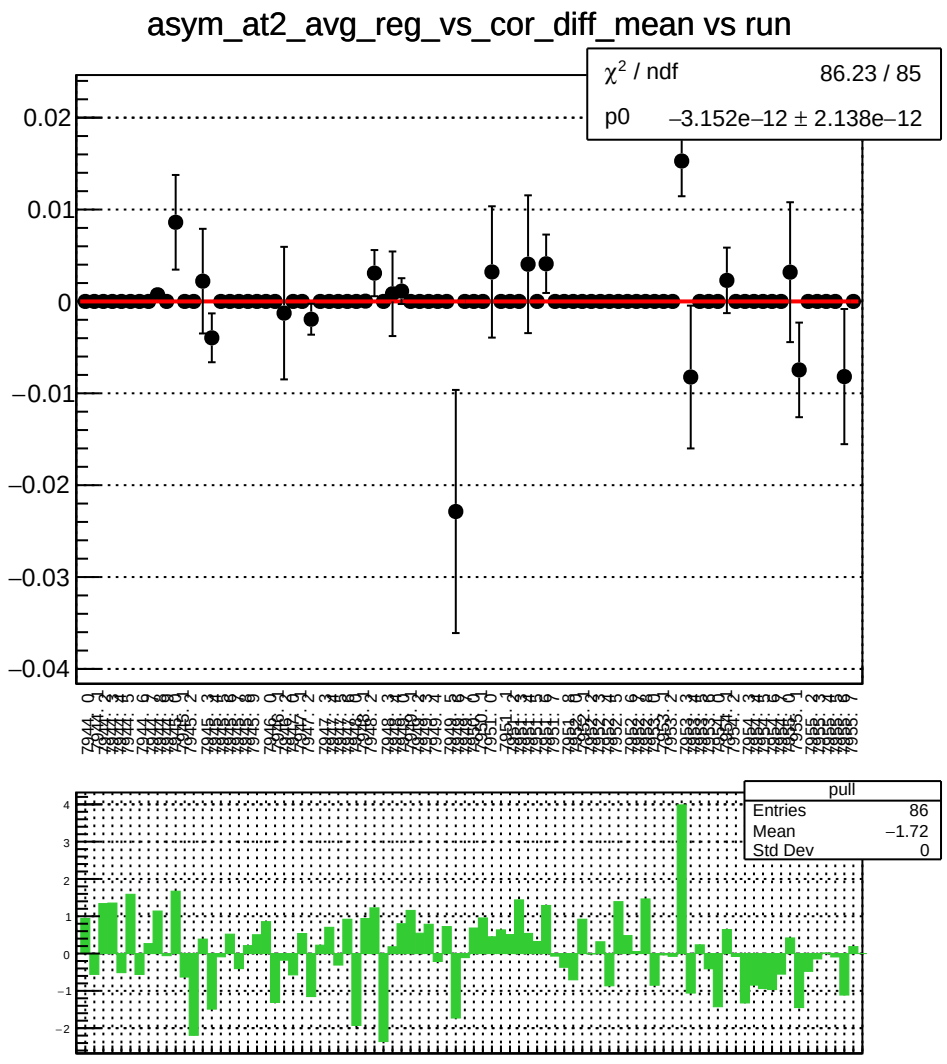

pull1D
Entries 86
Mean 0.005255
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

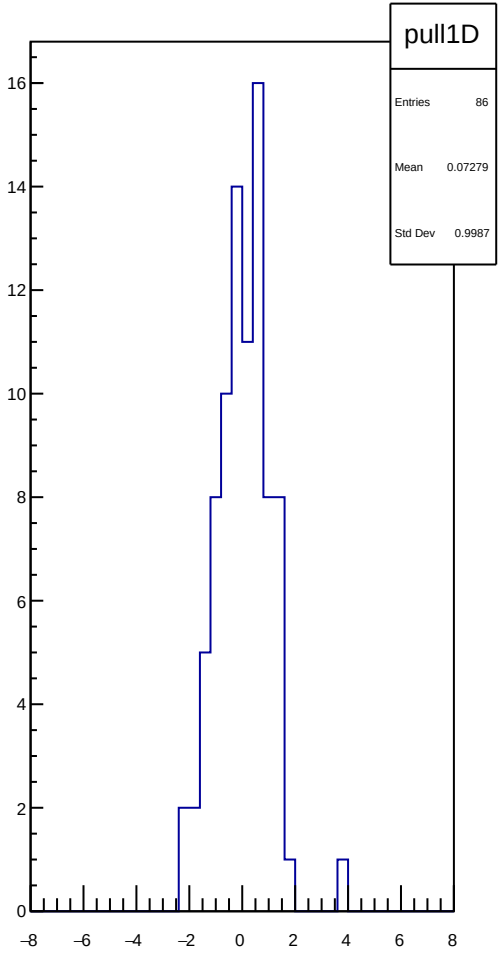

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5479 / 85
p0 1.164e+04 ± 9.165
14000
13500
13000
12500
12000
11500
11000
10500

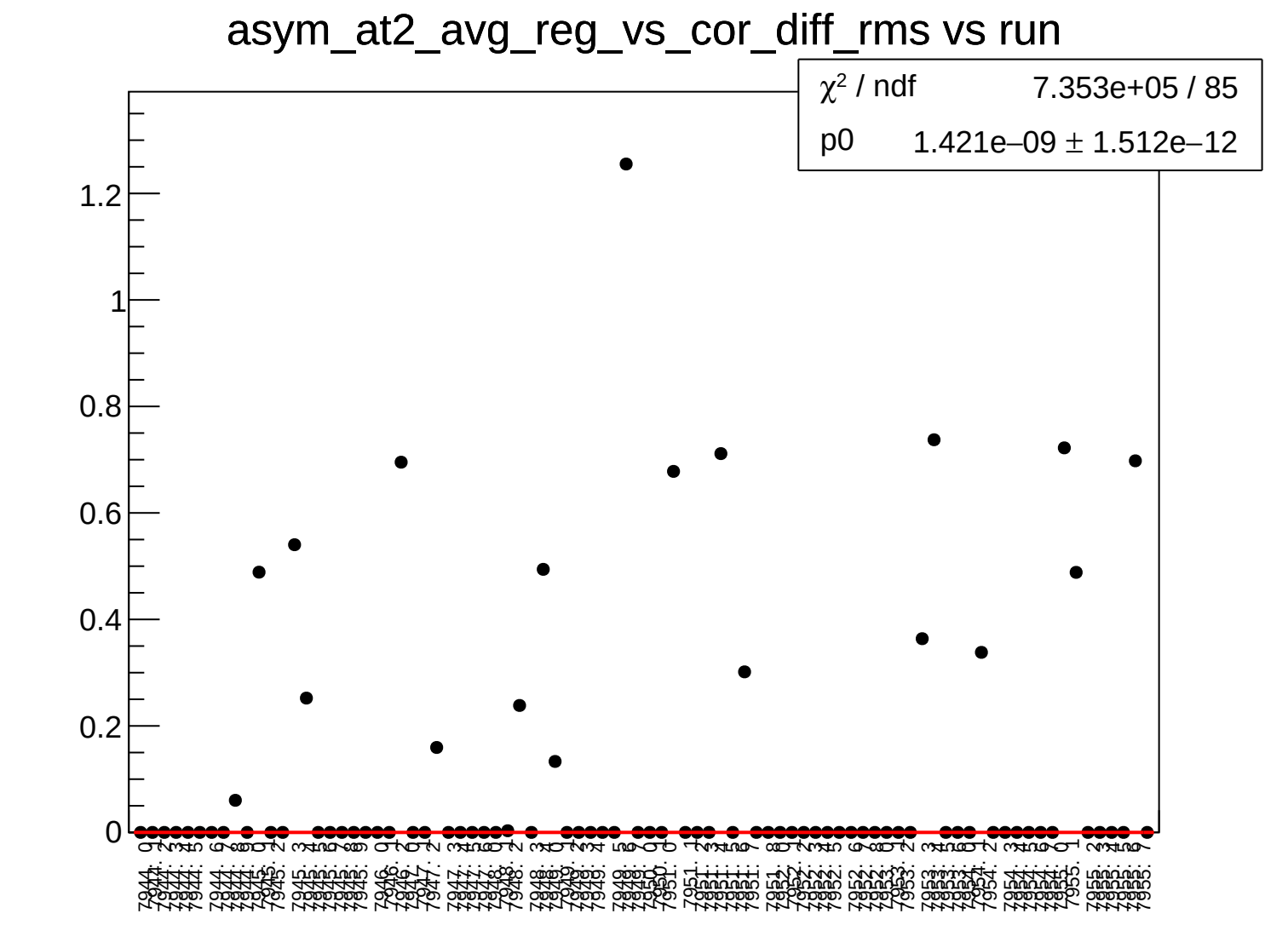

asym_at2_avg_mean vs run
×10^3
χ² / ndf 90.62 / 85
p0 6716 ± 1.302e+04
400
200
0
−200
−400
pull
Entries 86
Mean −136.1
Std Dev 0
2
1
0
−1
−2
−3

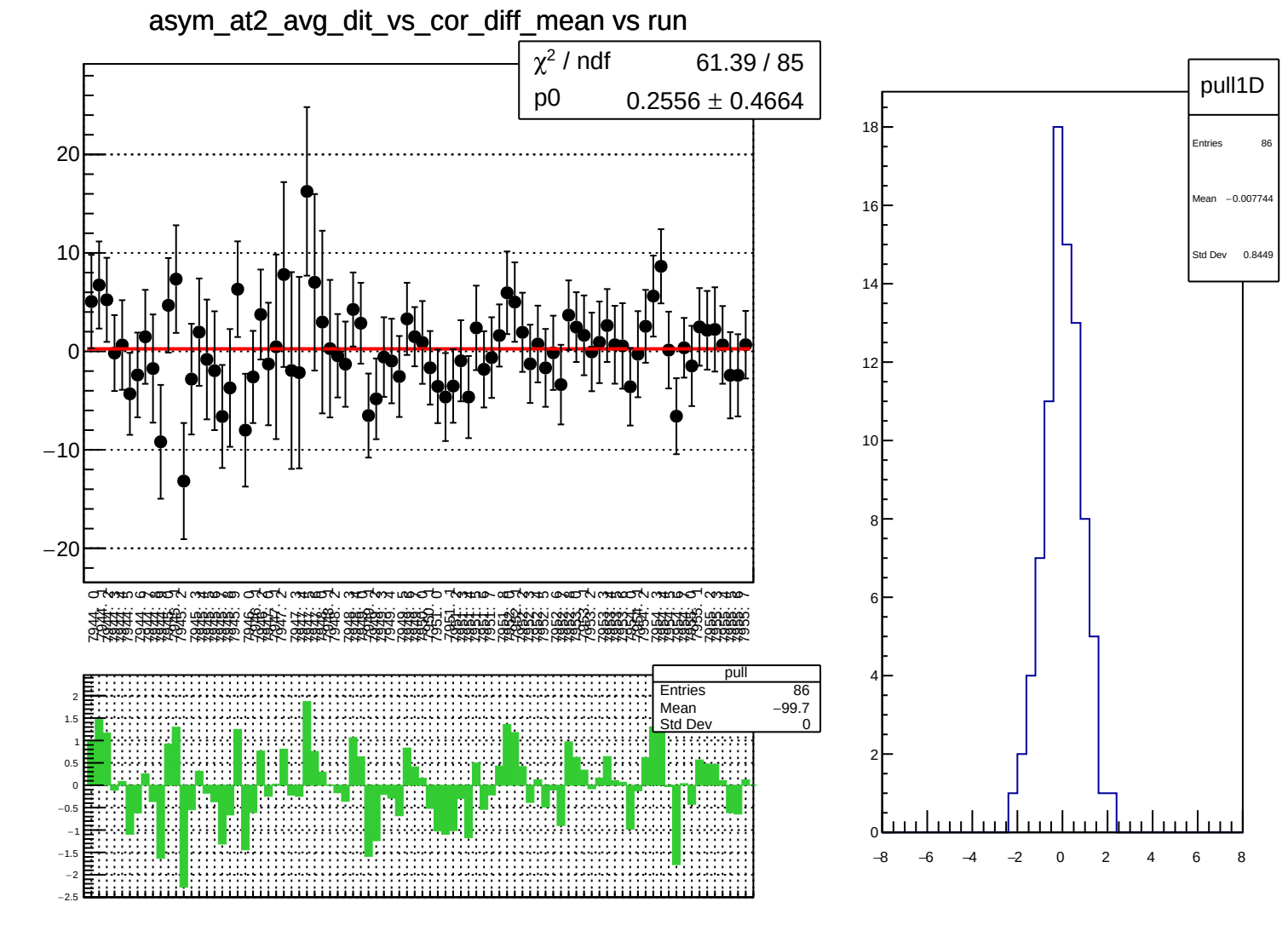

pull1D
Entries 86
Mean −0.004152
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

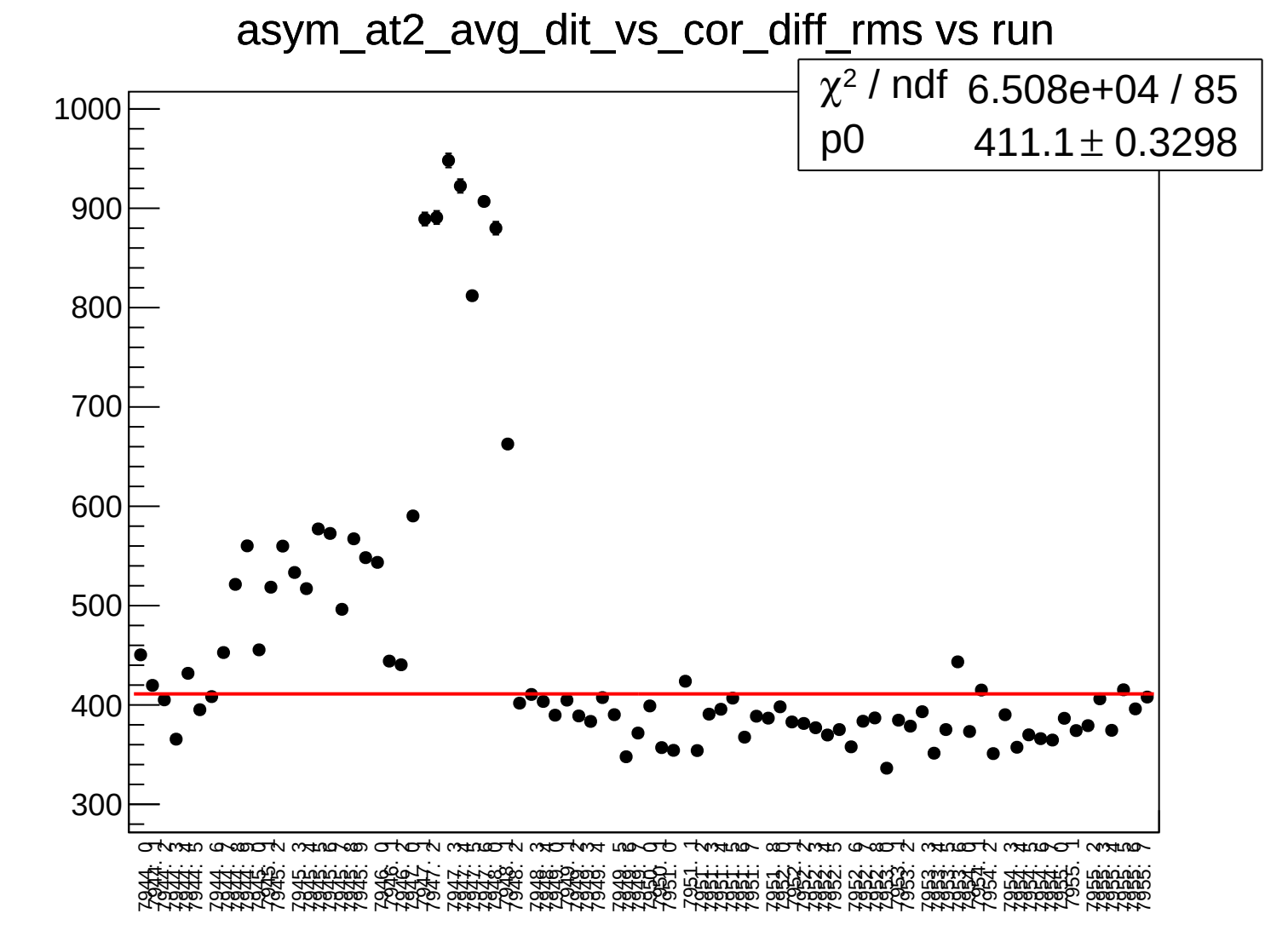

asym_at2_avg_rms vs run
χ² / ndf 4280 / 85
p0 1.17e+04 ± 9.204
13500
13000
12500
12000
11500
11000
10500

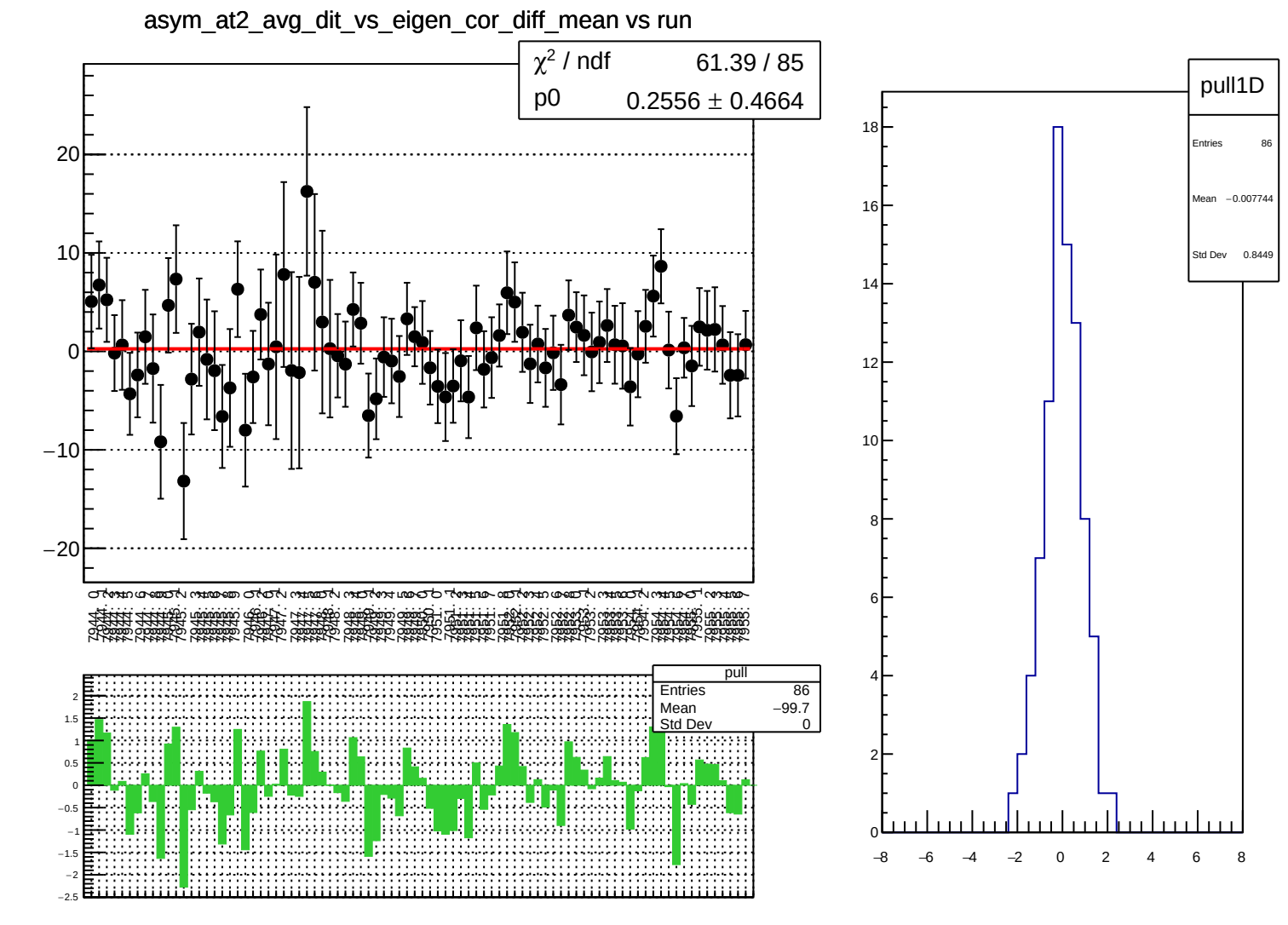

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.23 / 85
p0 −3.152e−12 ± 2.138e−12
pull
Entries 86
Mean −1.72
Std Dev 0

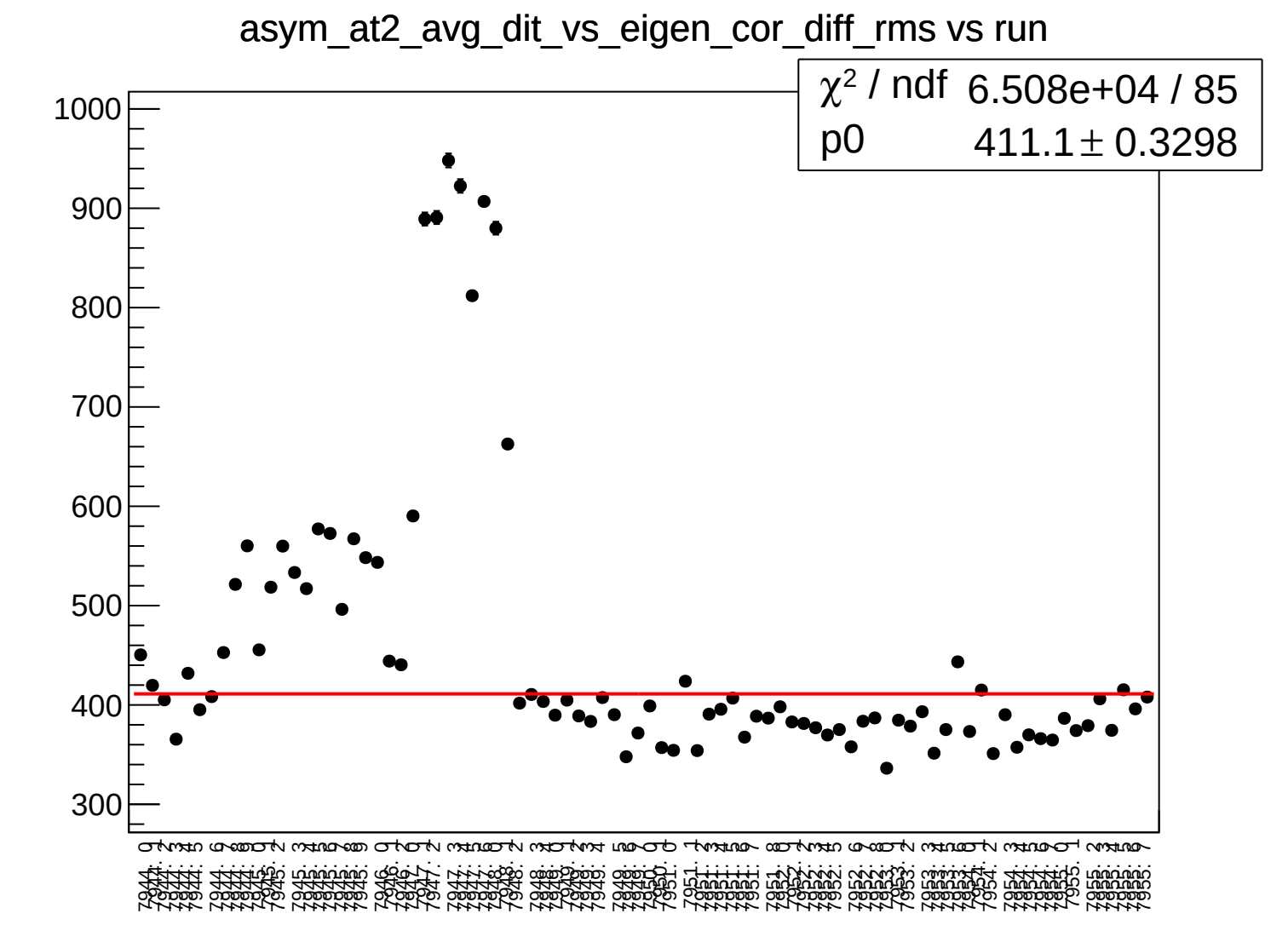

pull1D
Entries 86
Mean 0.07279
Std Dev 0.9987

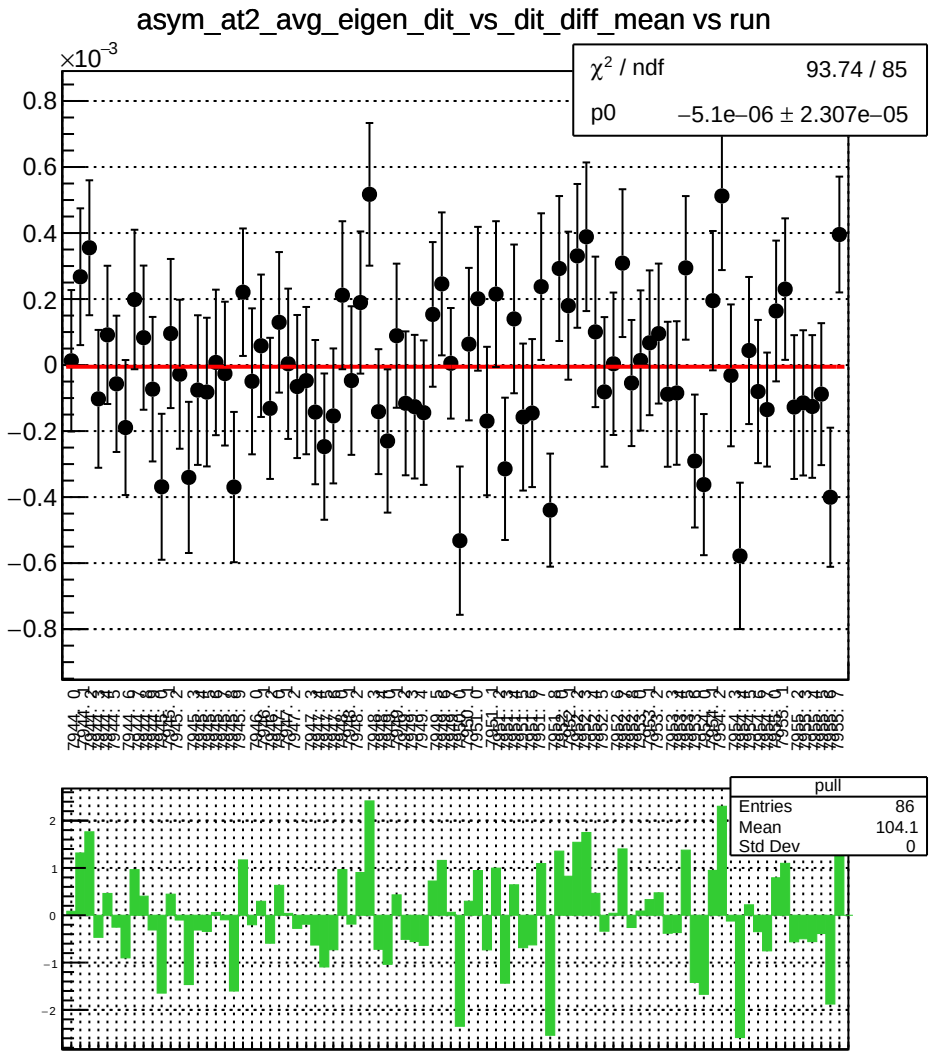

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.353e+05 / 85
p0 1.421e−09 ± 1.512e−12
1.2
1
0.8
0.6
0.4
0.2
0

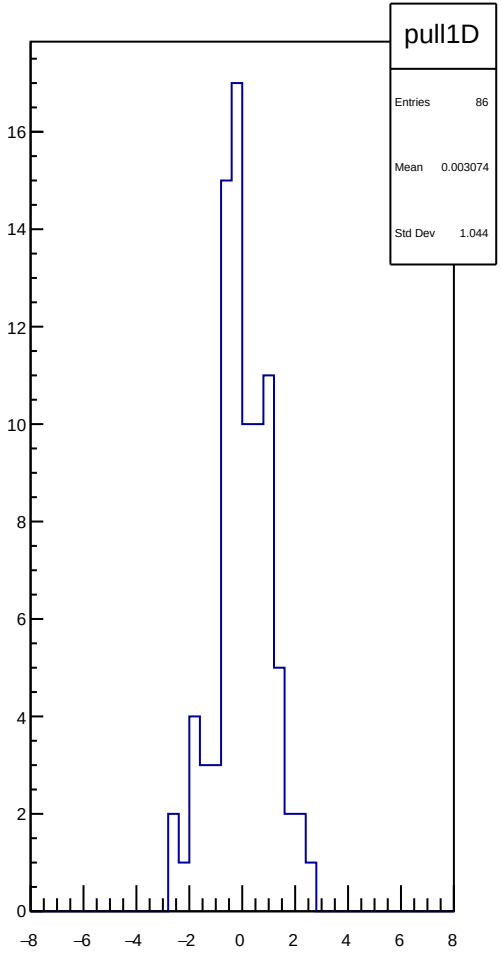

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 61.39 / 85
p0 0.2556 ± 0.4664
pull
Entries 86
Mean −99.7
Std Dev 0
pull1D
Entries 86
Mean −0.007744
Std Dev 0.8449

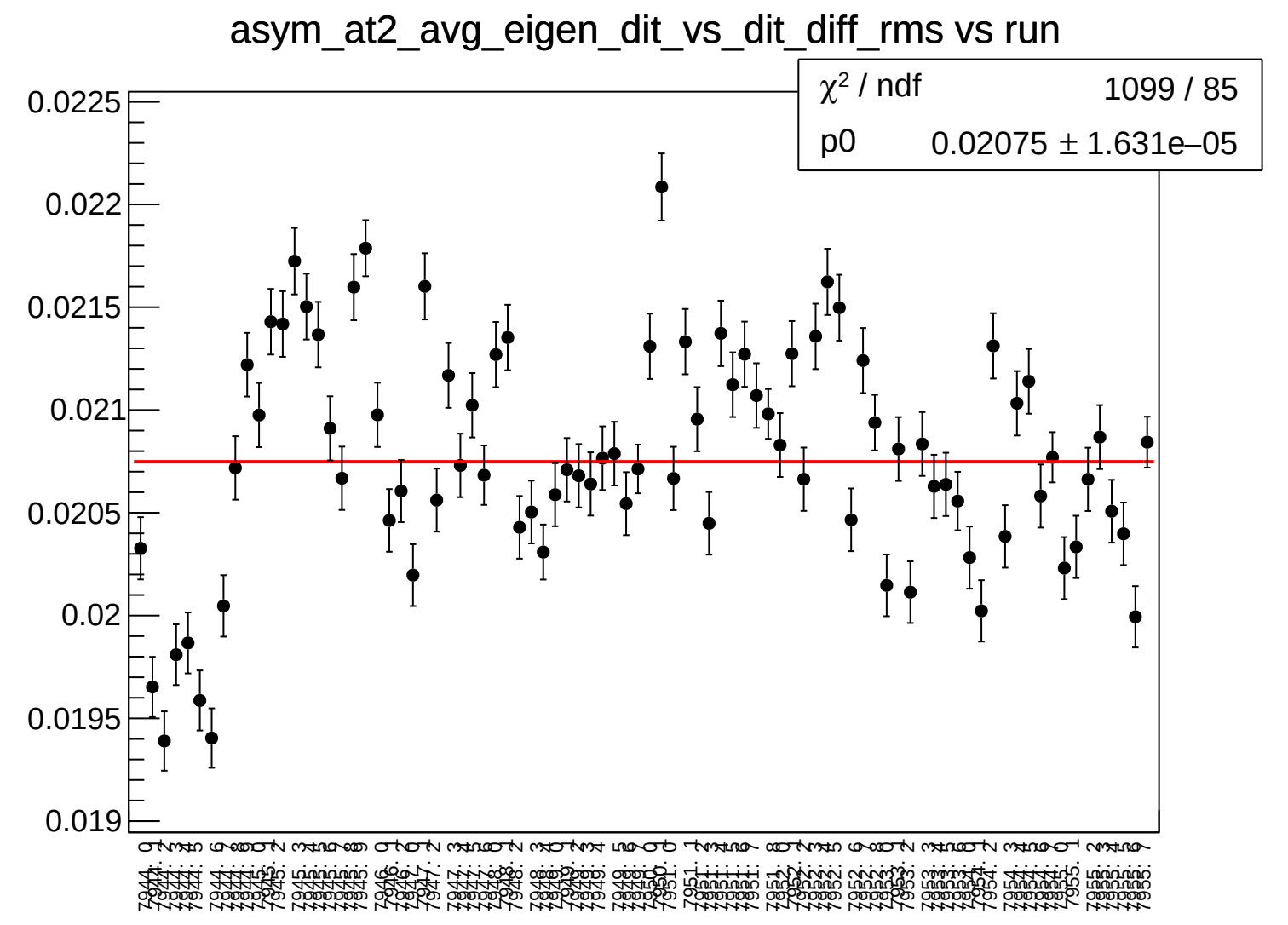

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.508e+04 / 85
p0 411.1 ± 0.3298
1000
900
800
700
600
500
400
300

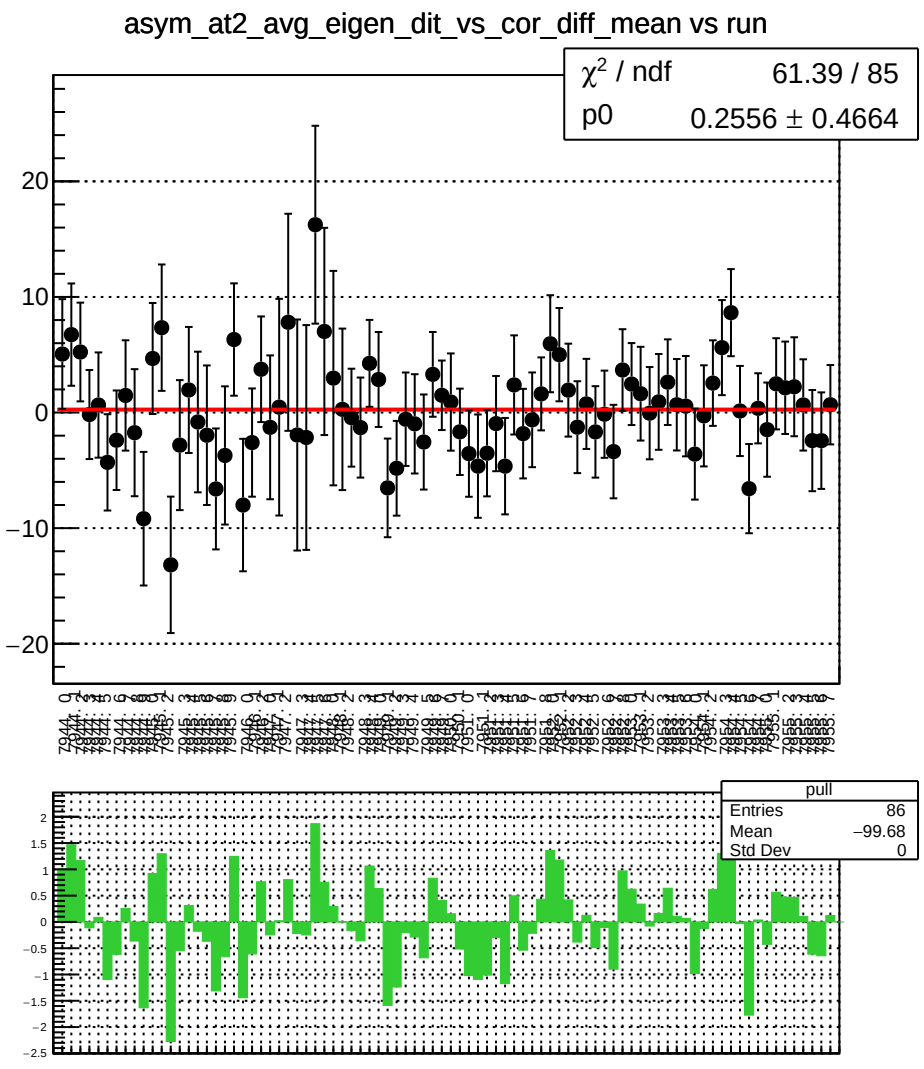

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.39 / 85
p0 0.2556 ± 0.4664
pull
Entries 86
Mean −99.7
Std Dev 0
pull1D
Entries 86
Mean −0.007744
Std Dev 0.8449

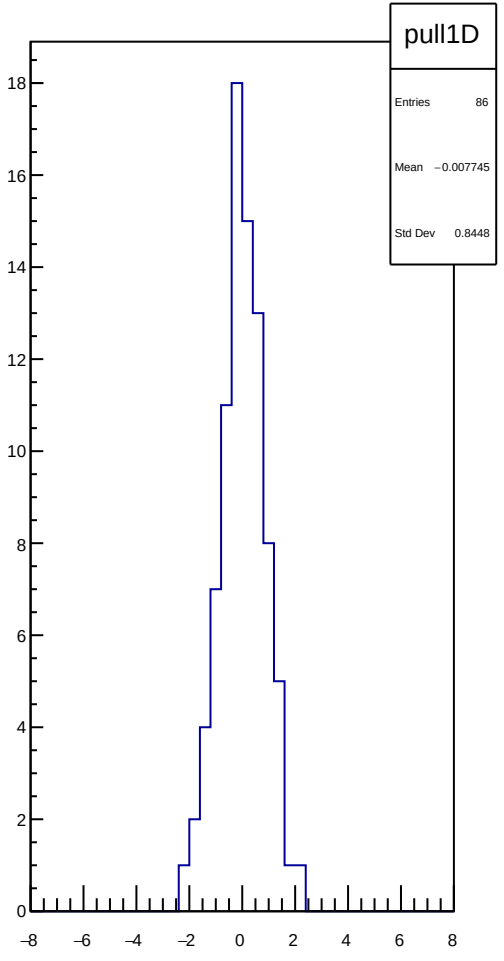

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.508e+04 / 85
p0 411.1 ± 0.3298
1000
900
800
700
600
500
400
300

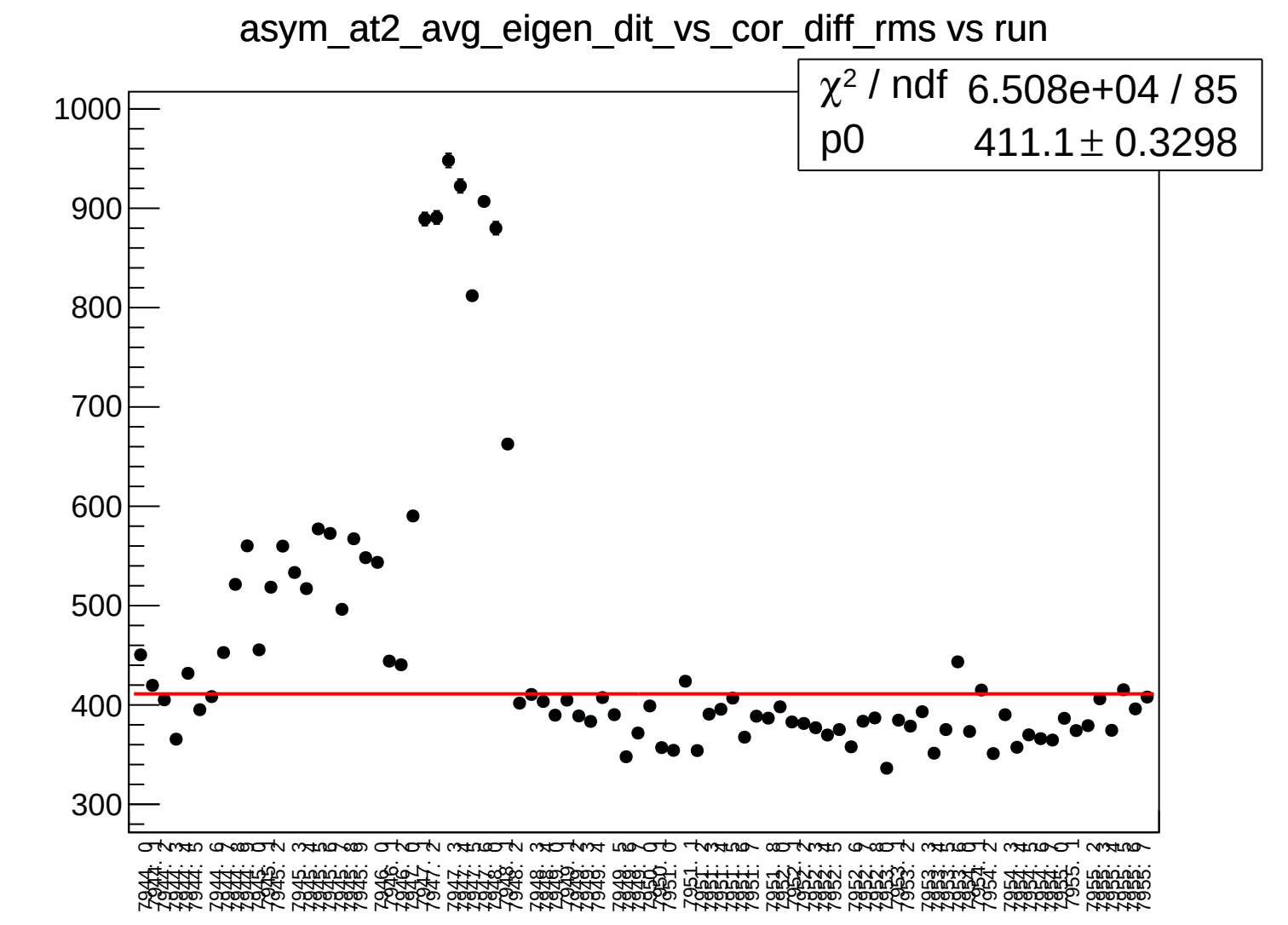

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.74 / 85
p0 −5.1e−06 ± 2.307e−05
pull
Entries 86
Mean 104.1
Std Dev 0

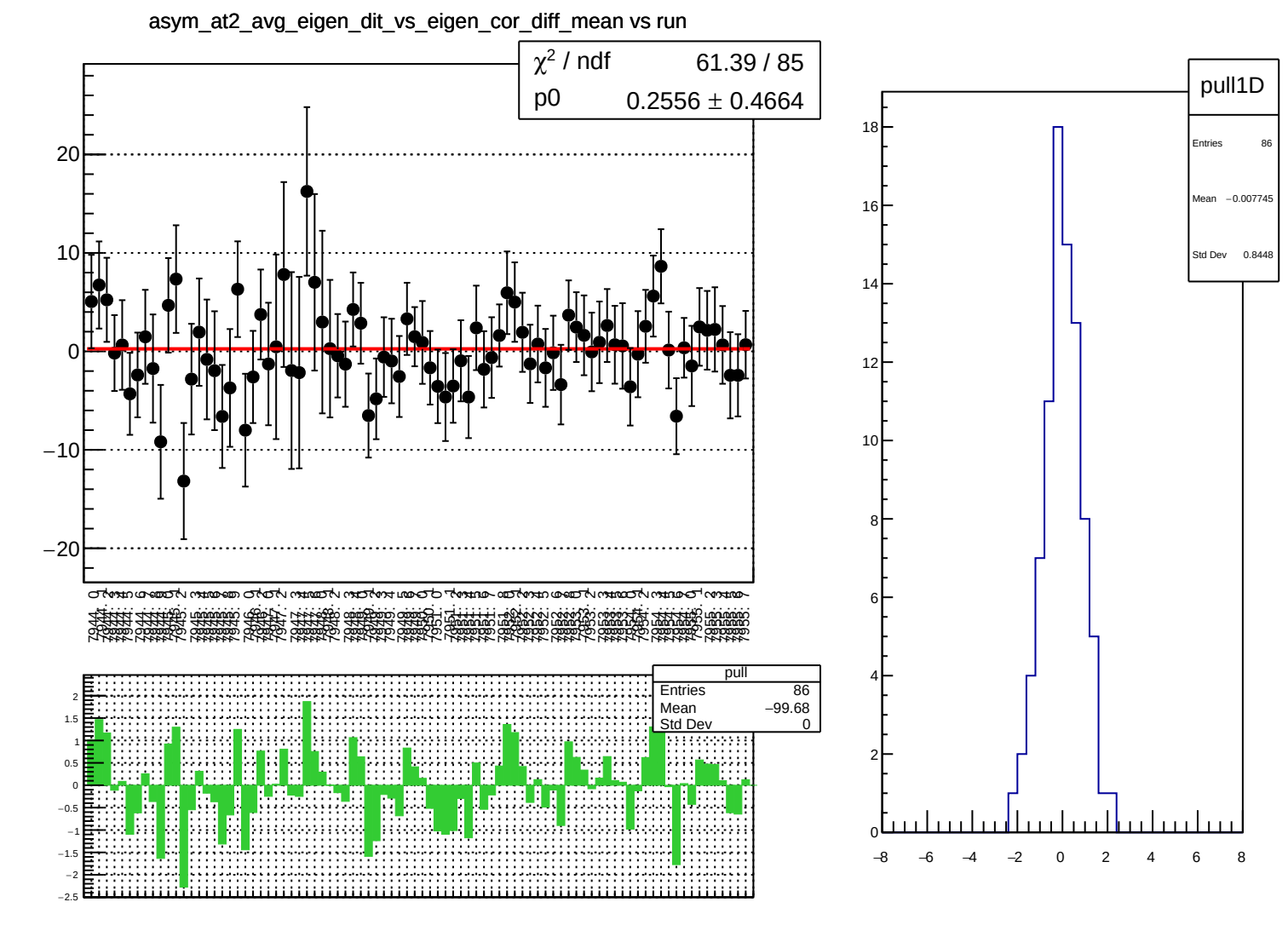

pull1D
Entries 86
Mean 0.003074
Std Dev 1.044

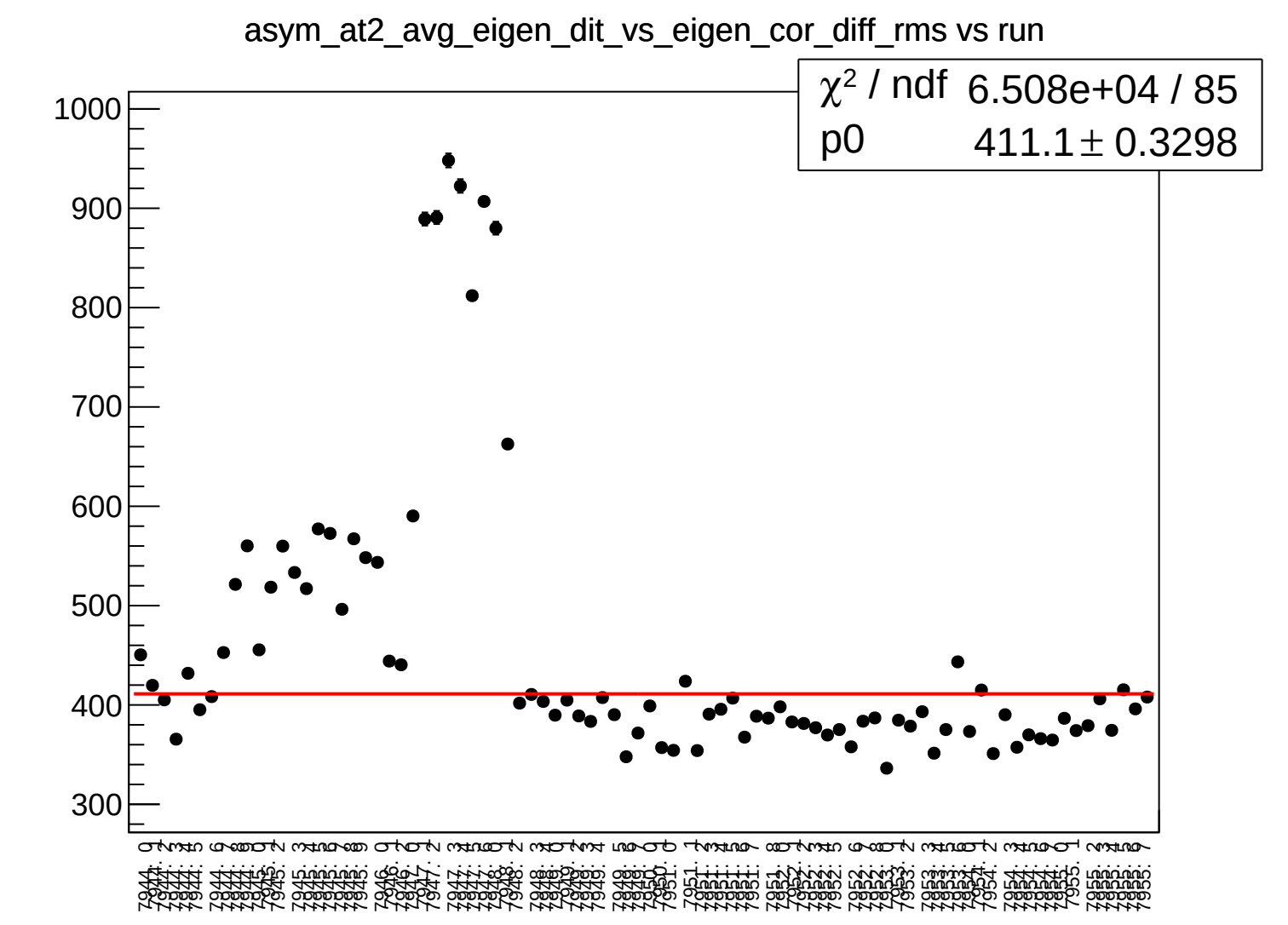

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1099 / 85
p0 0.02075 ± 1.631e−05
0.0225
0.022
0.0215
0.021
0.0205
0.02
0.0195
0.019

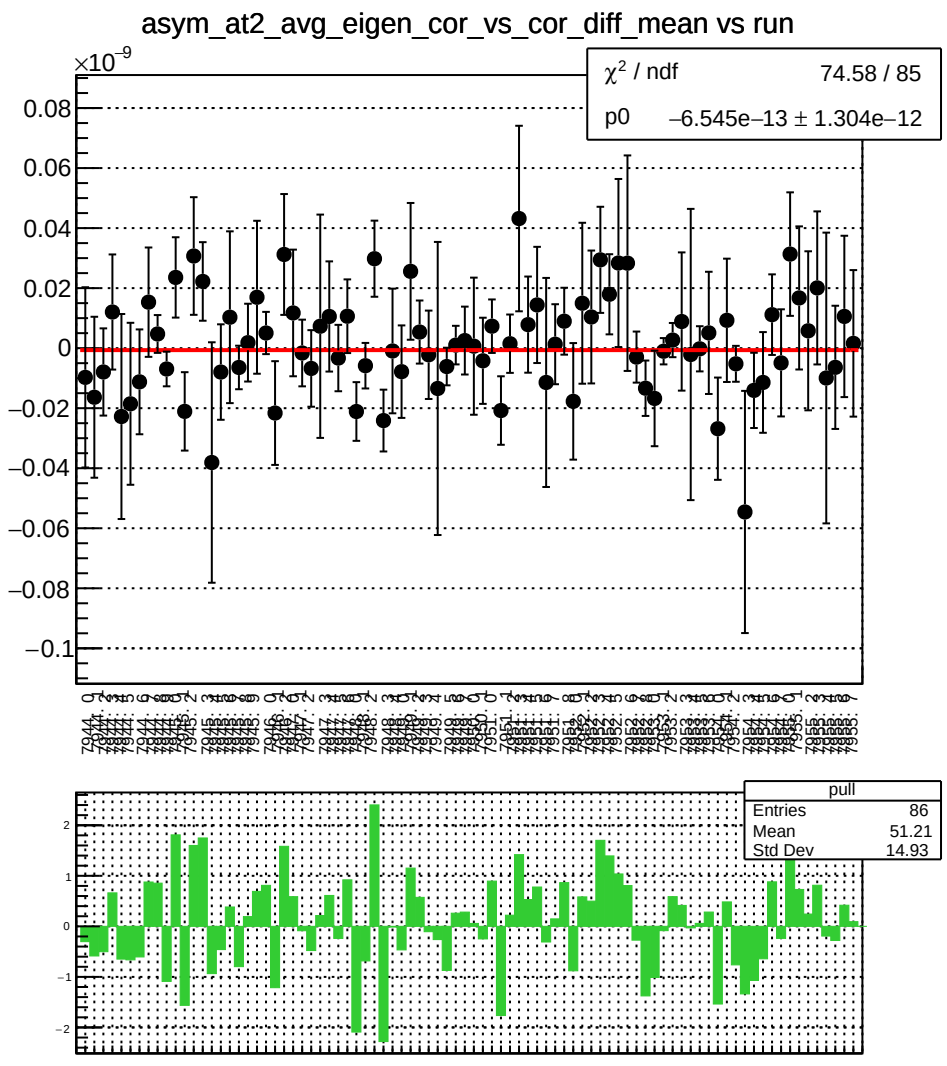

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.39 / 85
p0 0.2556 ± 0.4664
pull
Entries 86
Mean −99.68
Std Dev 0

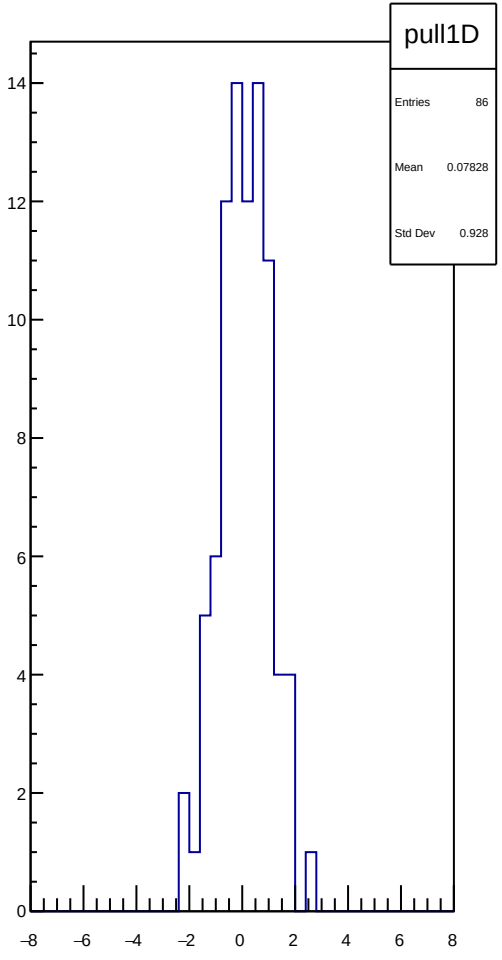

pull1D
Entries 86
Mean −0.007745
Std Dev 0.8448

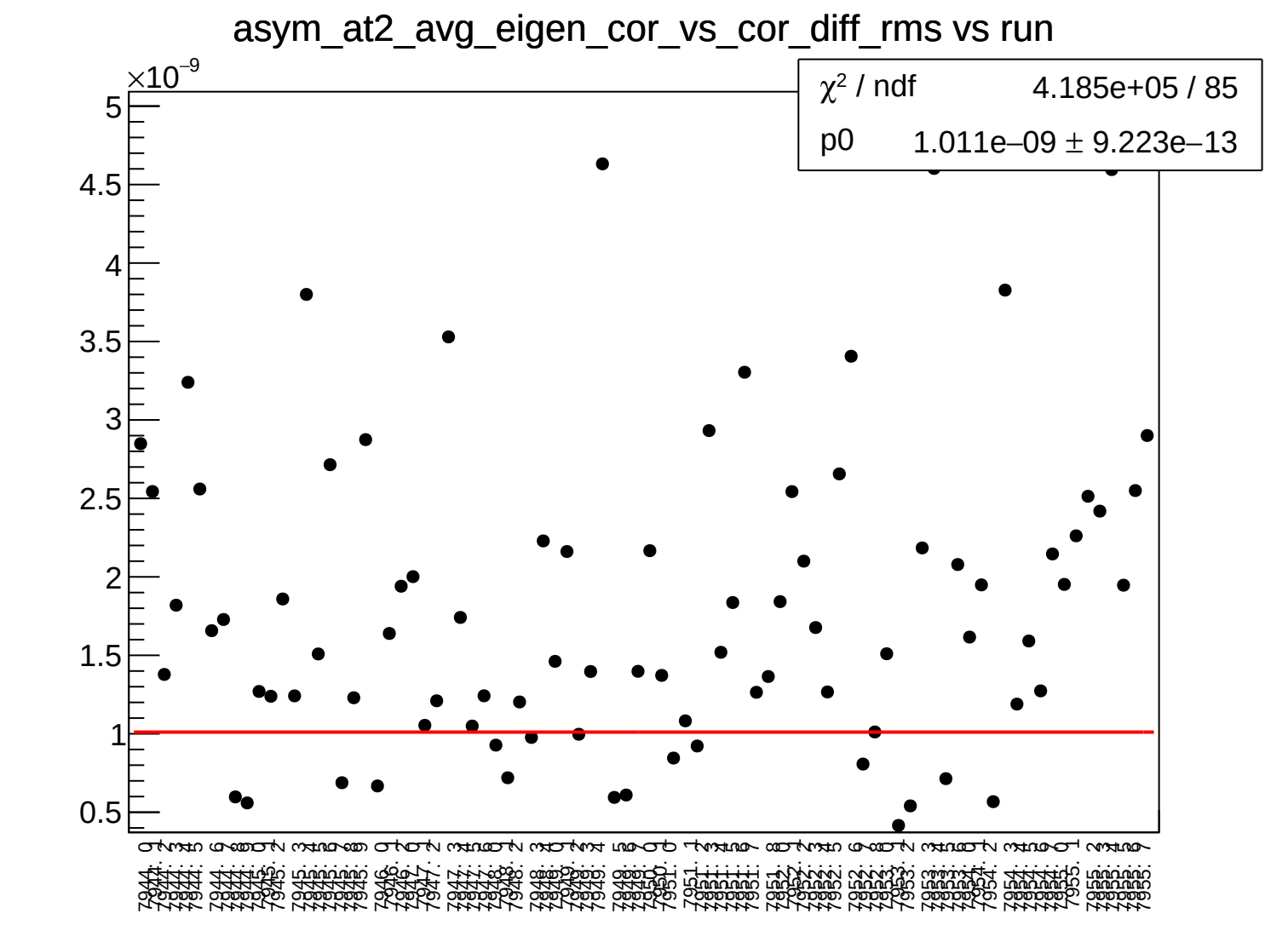

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.508e+04 / 85
p0 411.1 ± 0.3298
1000
900
800
700
600
500
400
300

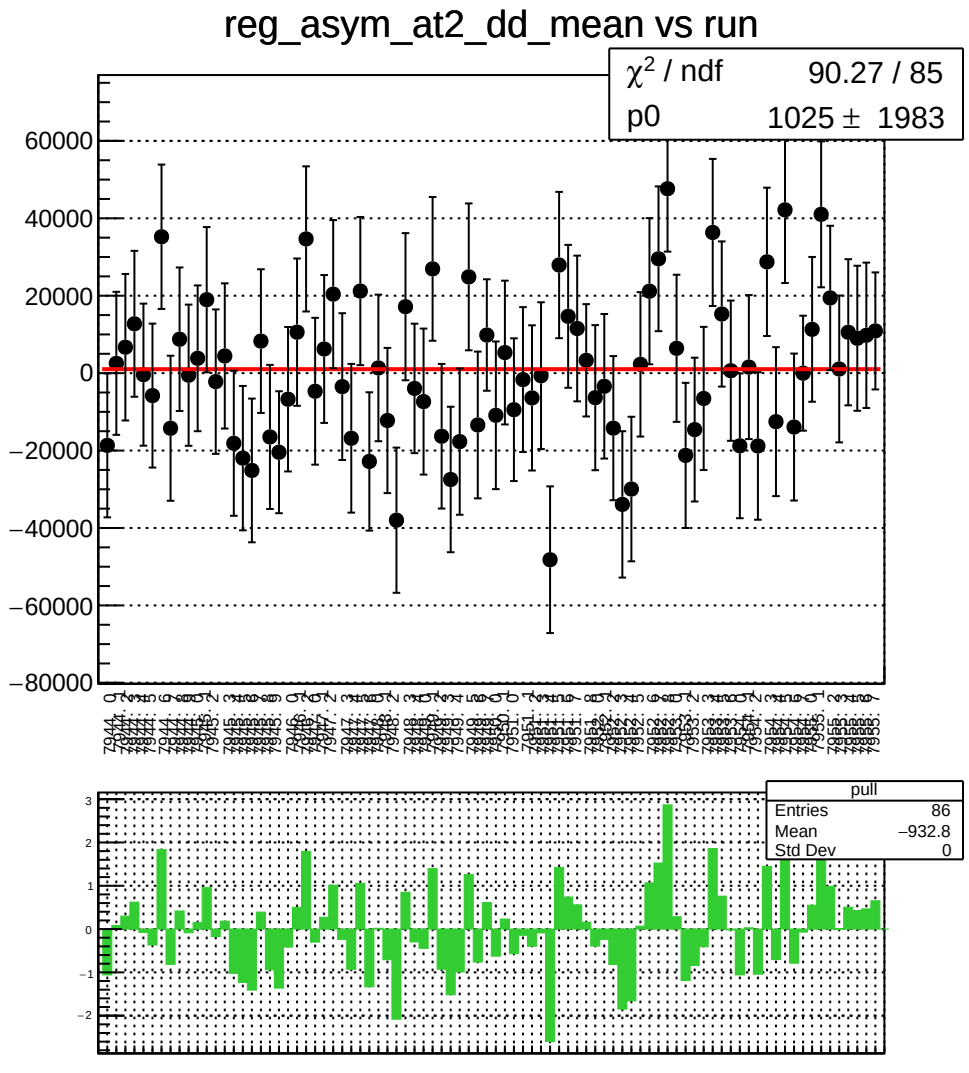

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.39 / 85
p0 0.2556 ± 0.4664
pull
Entries 86
Mean −99.68
Std Dev 0
pull1D
Entries 86
Mean −0.007745
Std Dev 0.8448

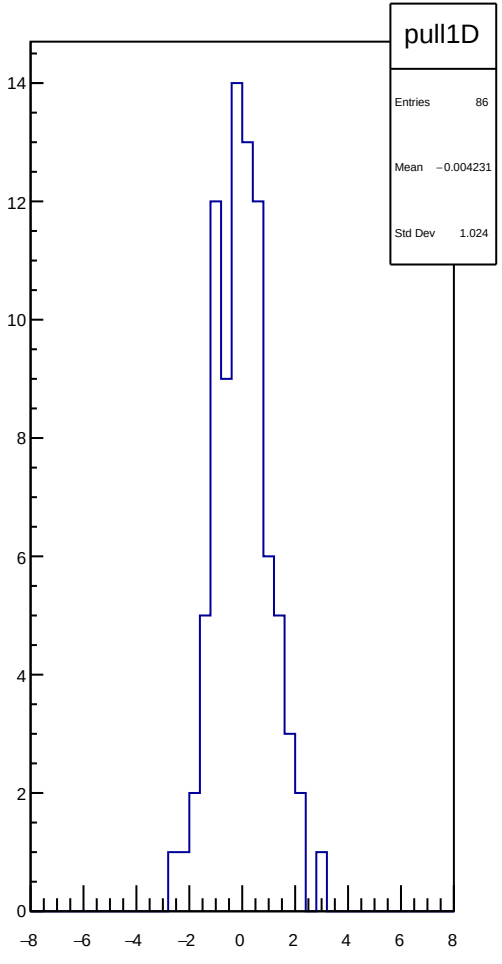

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.508e+04 / 85
p0 411.1 ± 0.3298
1000
900
800
700
600
500
400
300

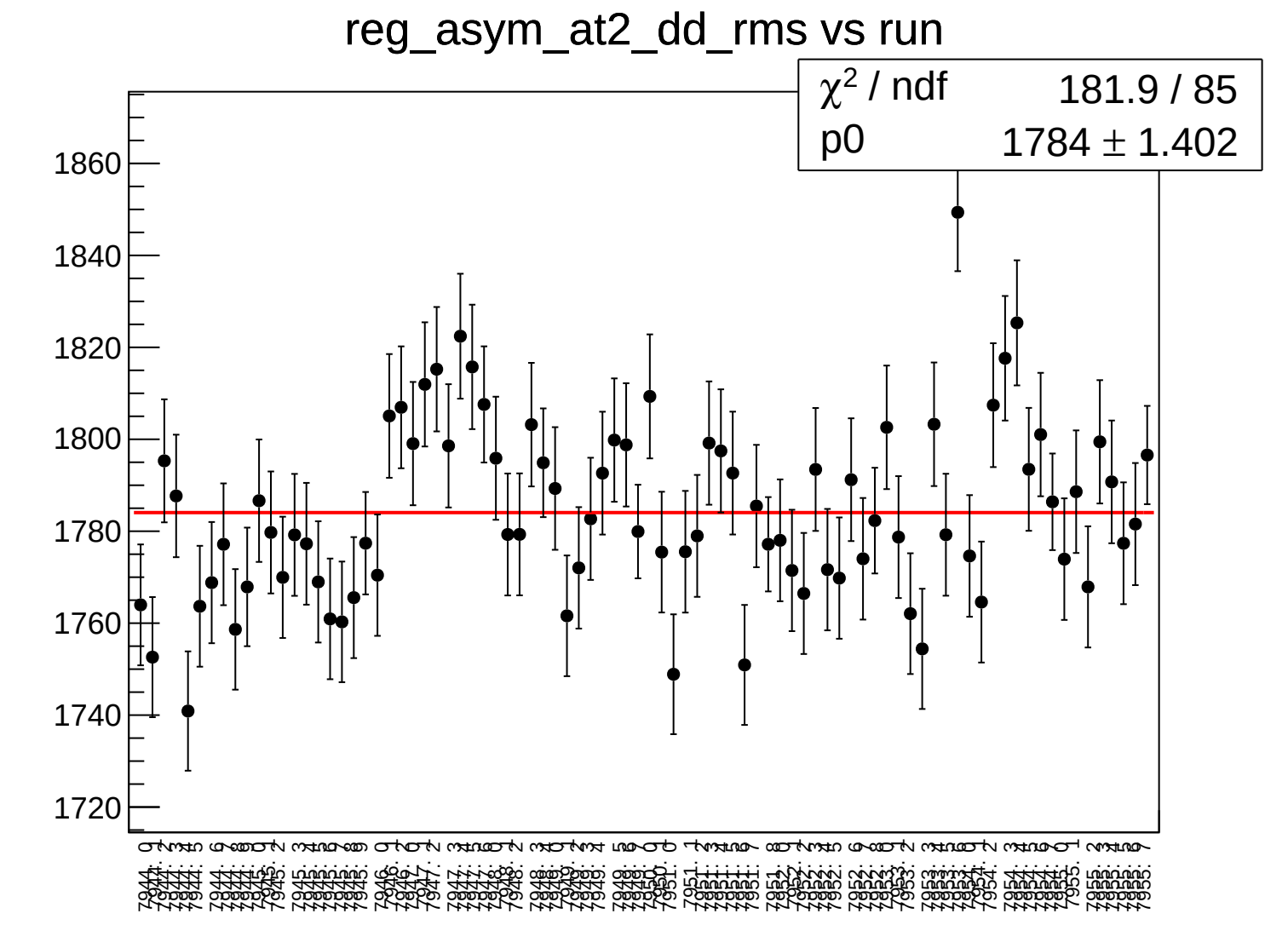

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 74.58 / 85
p0 −6.545e−13 ± 1.304e−12
pull
Entries 86
Mean 51.21
Std Dev 14.93

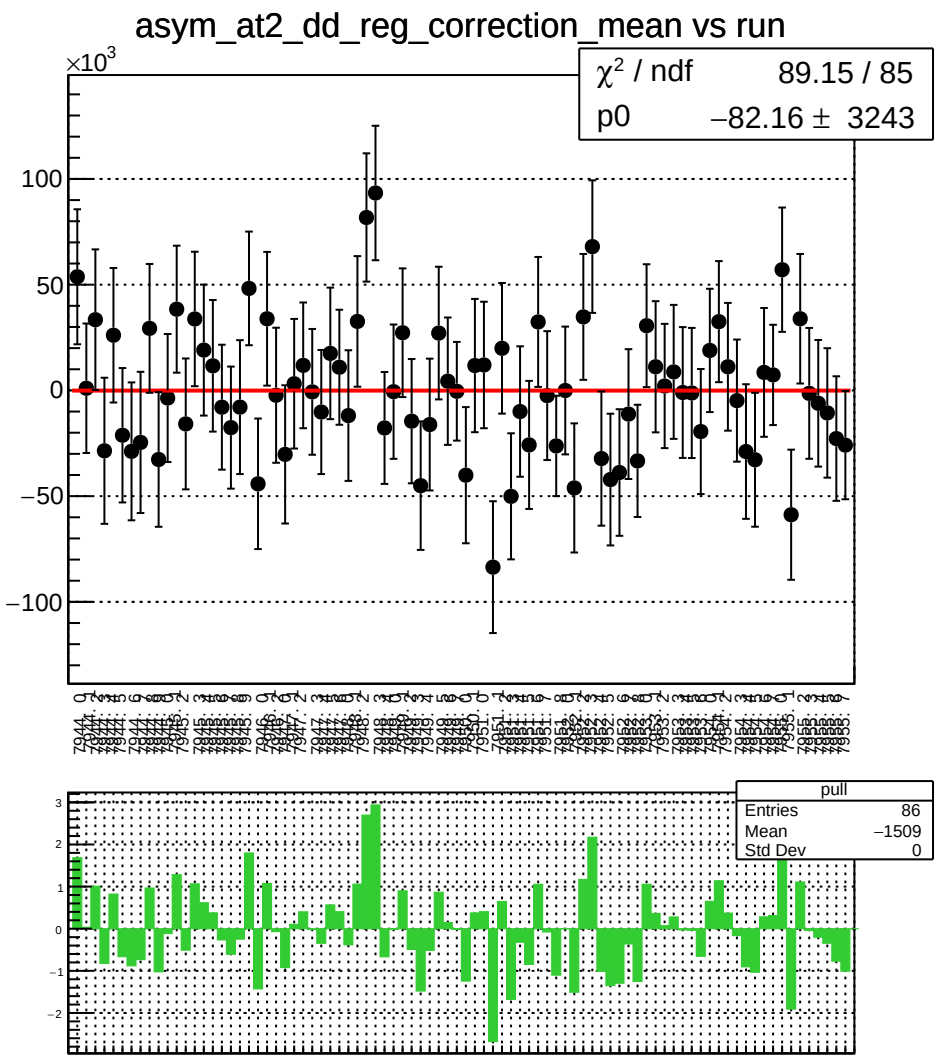

pull1D
Entries 86
Mean 0.07828
Std Dev 0.928

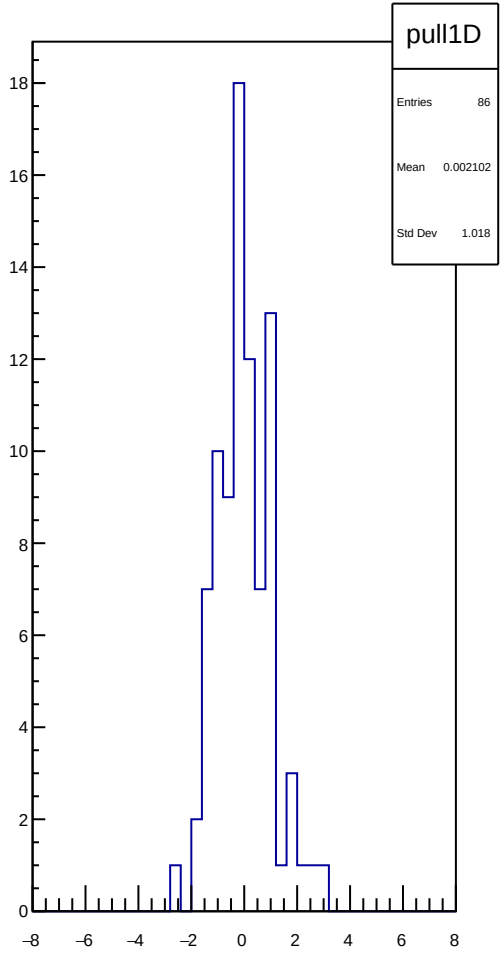

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.185e+05 / 85
p0 1.011e−09 ± 9.223e−13
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

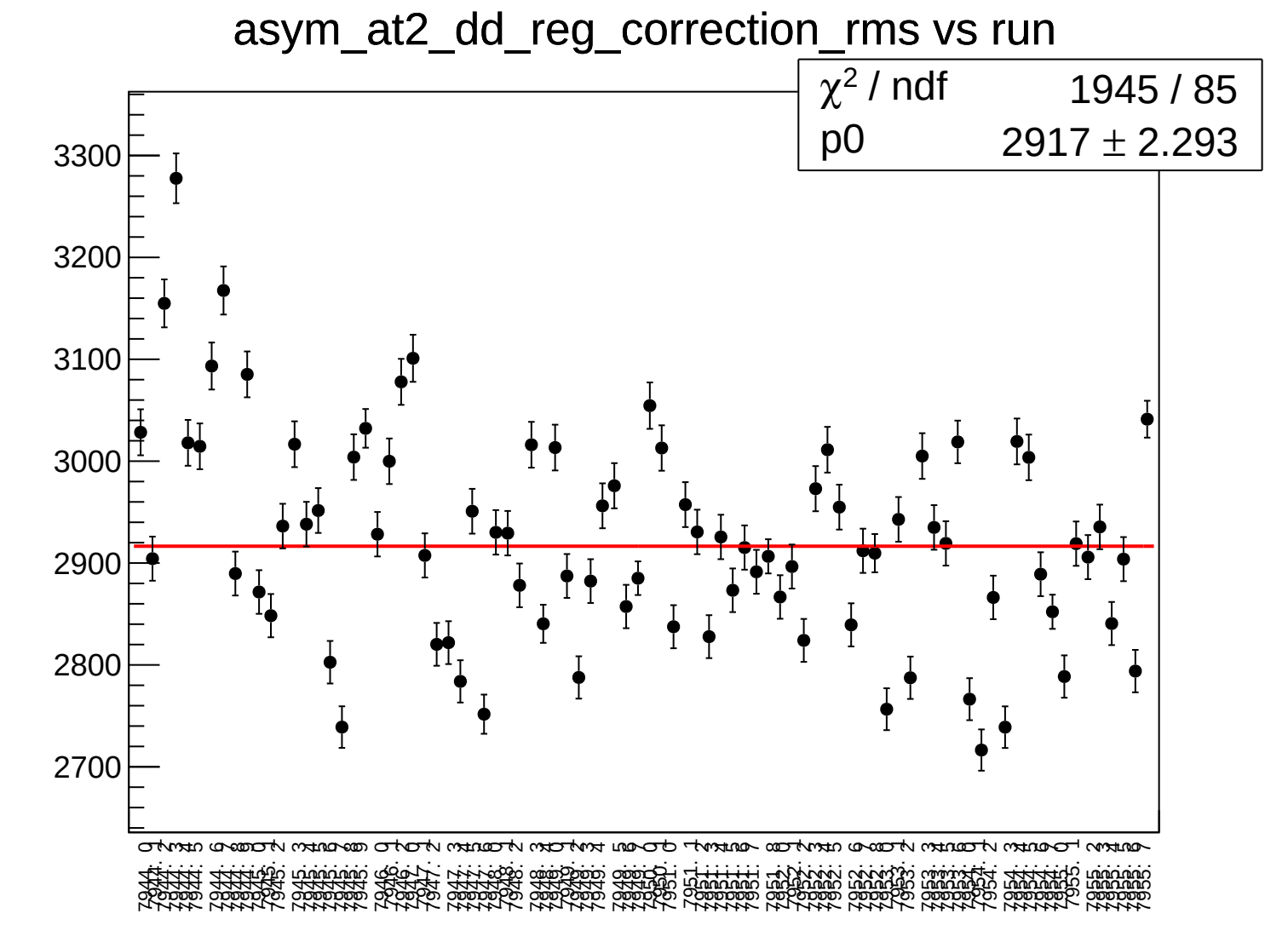

reg_asym_at2_dd_mean vs run
χ² / ndf 90.27 / 85
p0 1025 ± 1983
pull
Entries 86
Mean −932.8
Std Dev 0

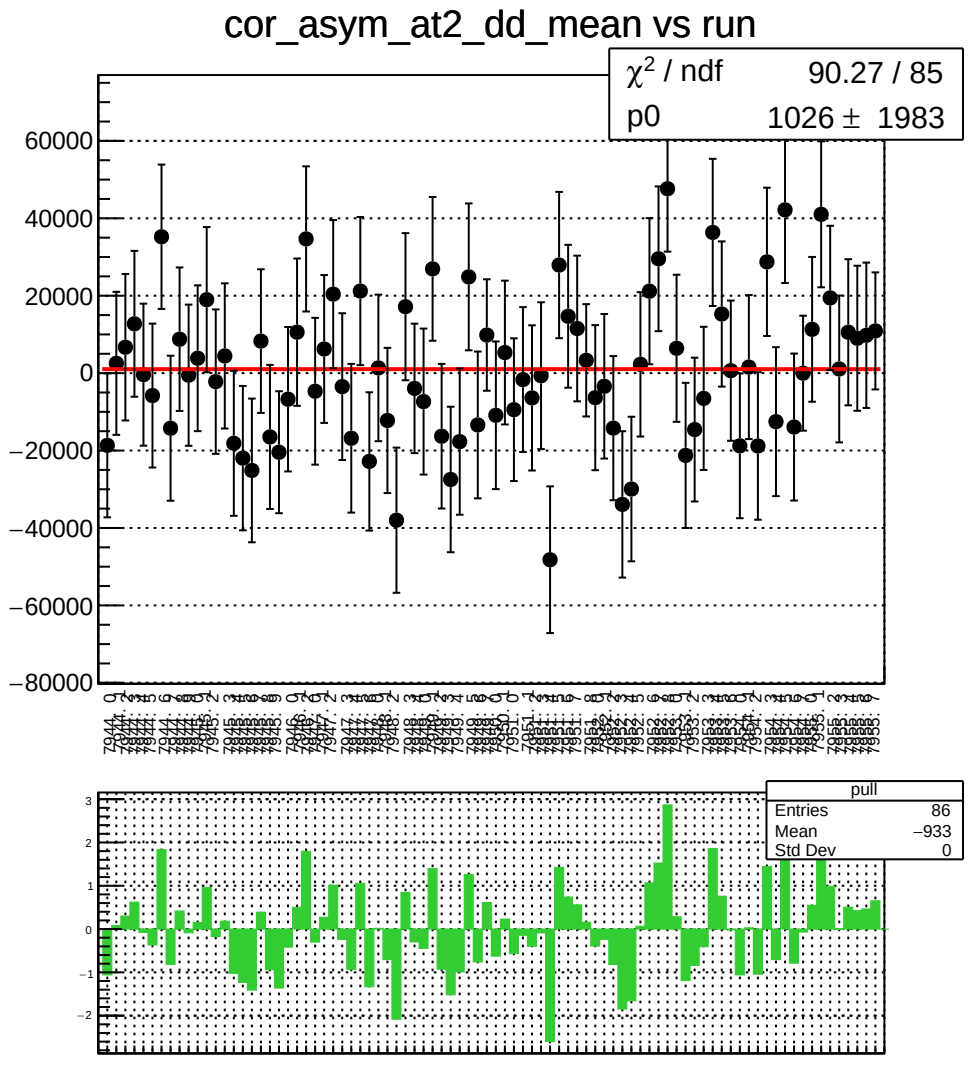

pull1D
Entries 86
Mean −0.004231
Std Dev 1.024

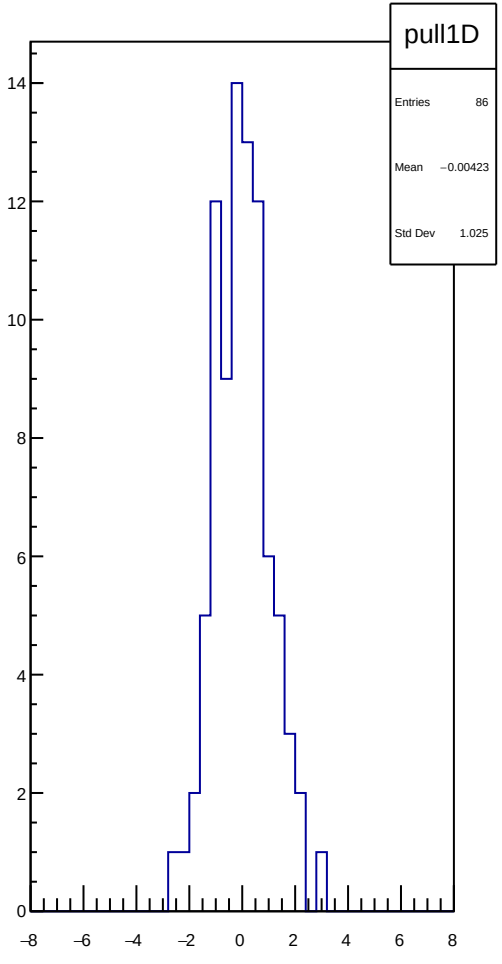

reg_asym_at2_dd_rms vs run
χ^2 / ndf 181.9 / 85
p0 1784 ± 1.402
1860
1840
1820
1800
1780
1760
1740
1720

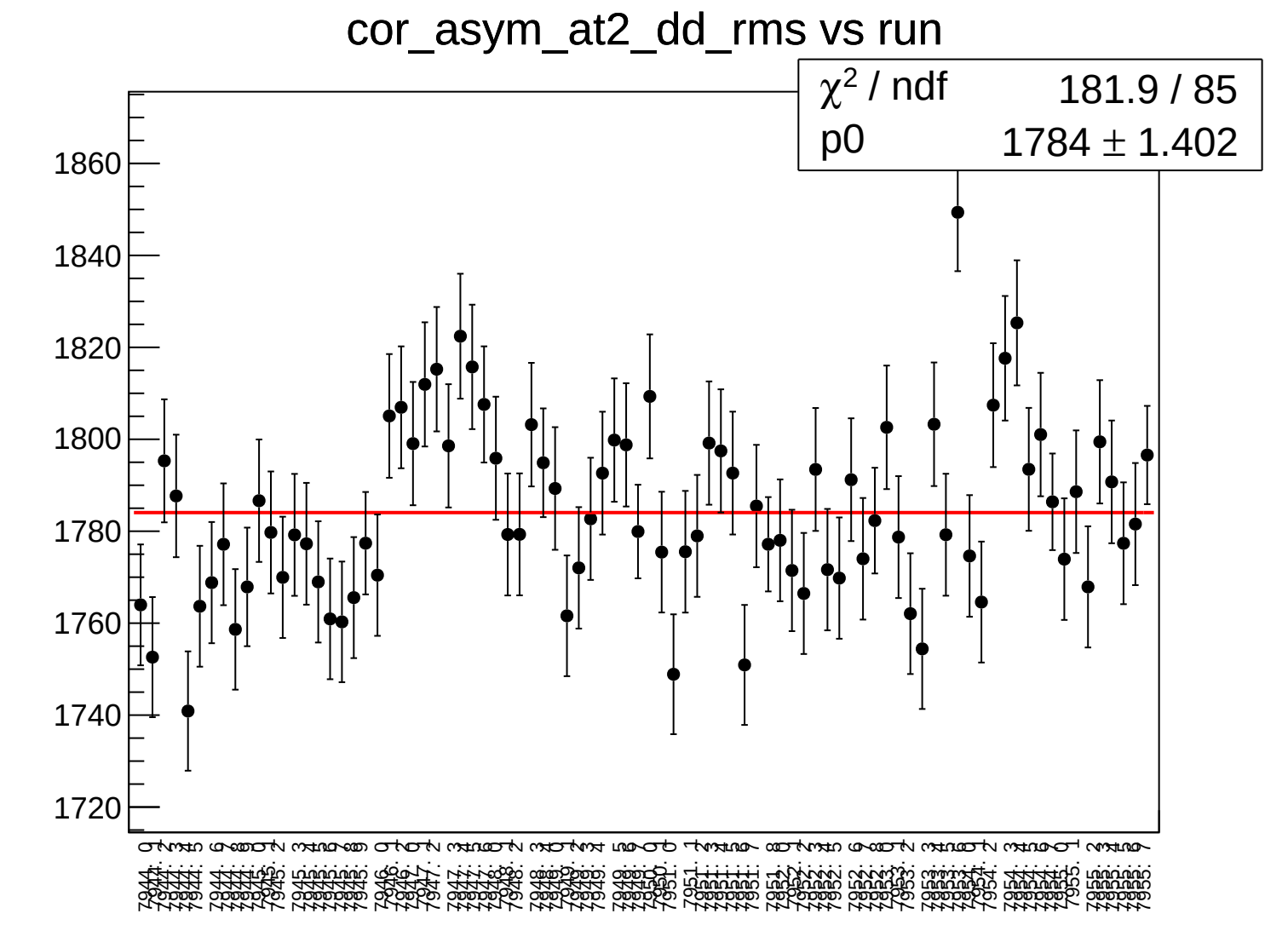

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.15 / 85
p0 −82.16 ± 3243
100
50
0
−50
−100
pull
Entries 86
Mean −1509
Std Dev 0
3
2
1
0
−1
−2

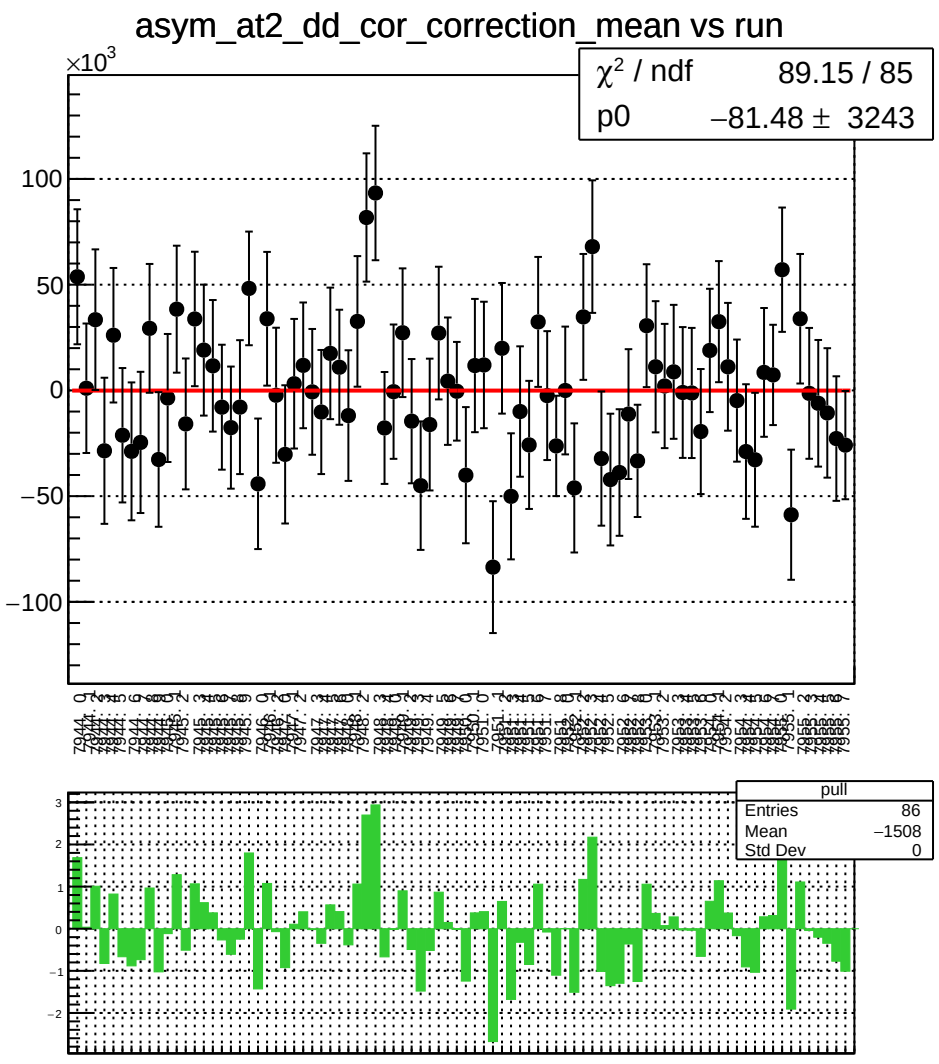

pull1D
Entries 86
Mean 0.002102
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

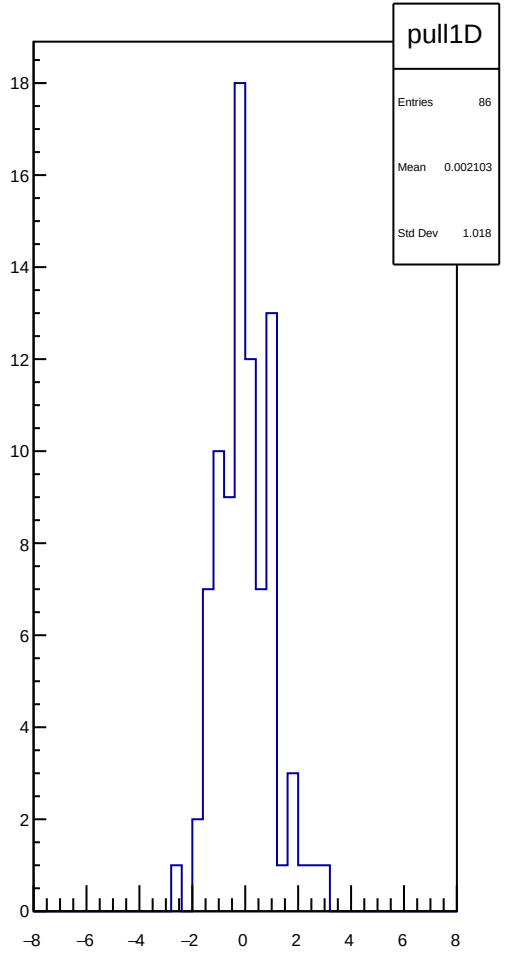

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1945 / 85
p0 2917 ± 2.293
3300
3200
3100
3000
2900
2800
2700

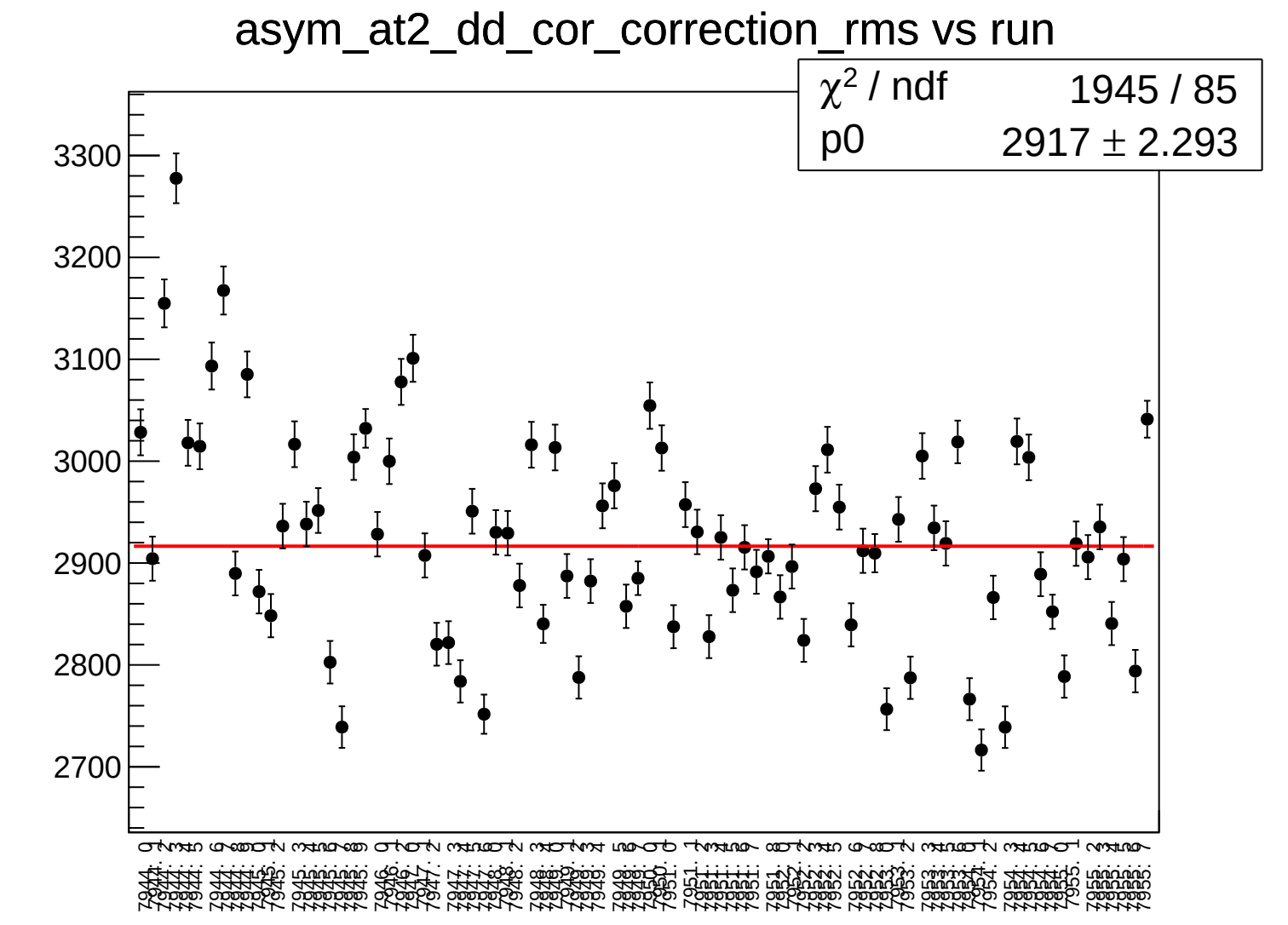

cor_asym_at2_dd_mean vs run
χ² / ndf 90.27 / 85
p0 1026 ± 1983
pull
Entries 86
Mean −933
Std Dev 0

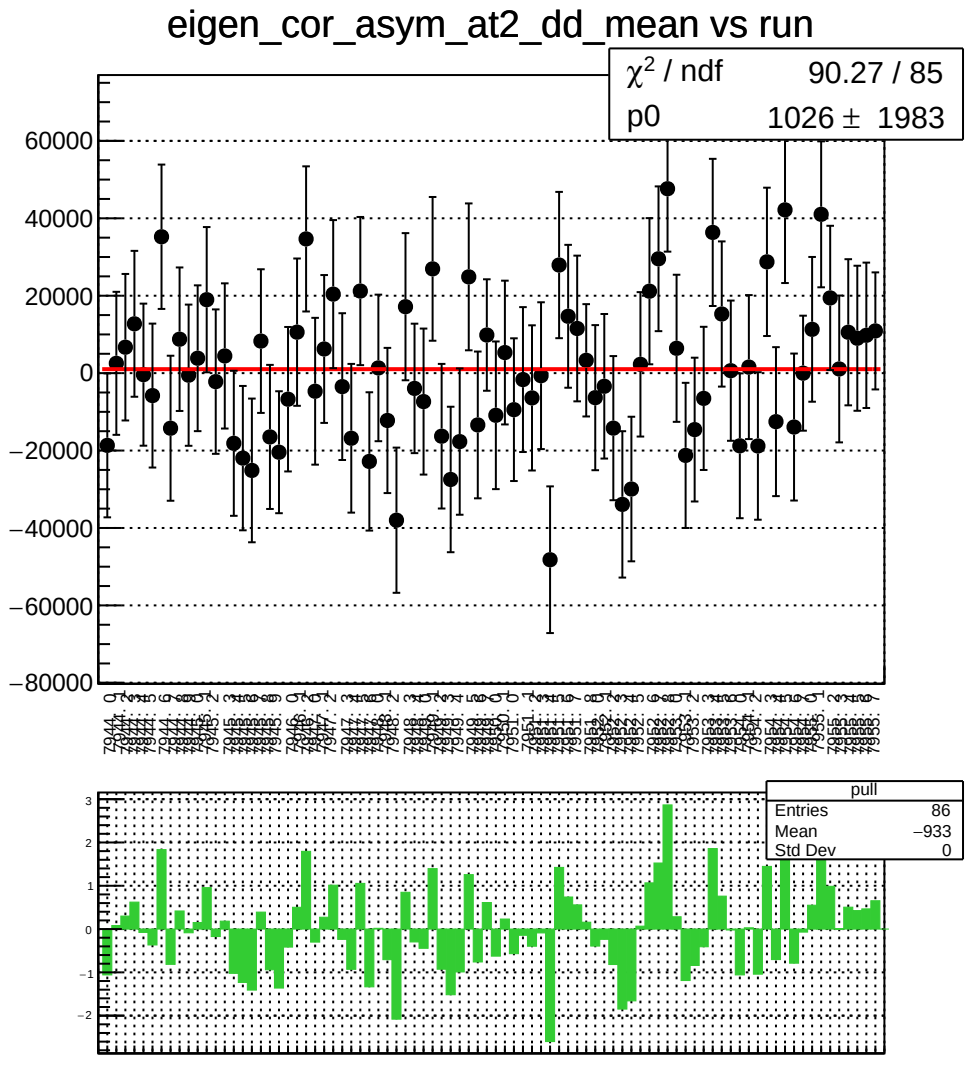

pull1D
Entries 86
Mean −0.00423
Std Dev 1.025

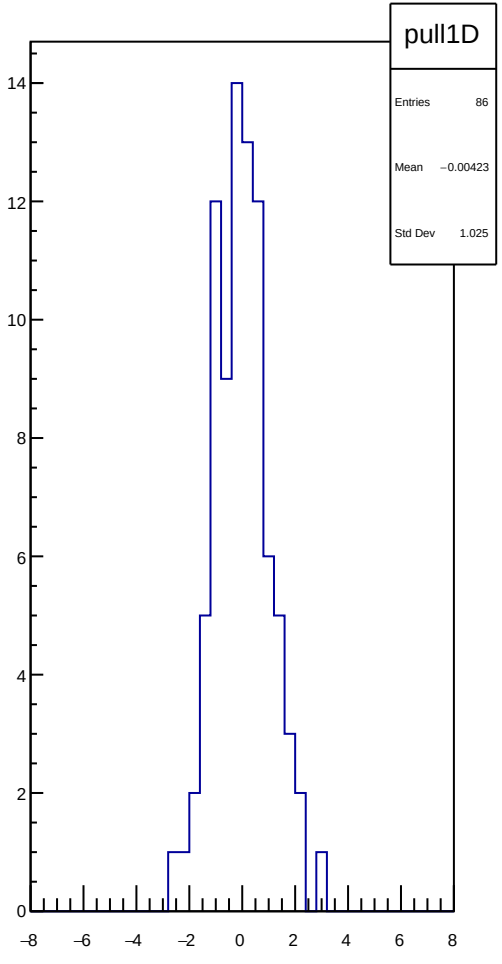

cor_asym_at2_dd_rms vs run
χ^2 / ndf 181.9 / 85
p0 1784 ± 1.402
1860
1840
1820
1800
1780
1760
1740
1720

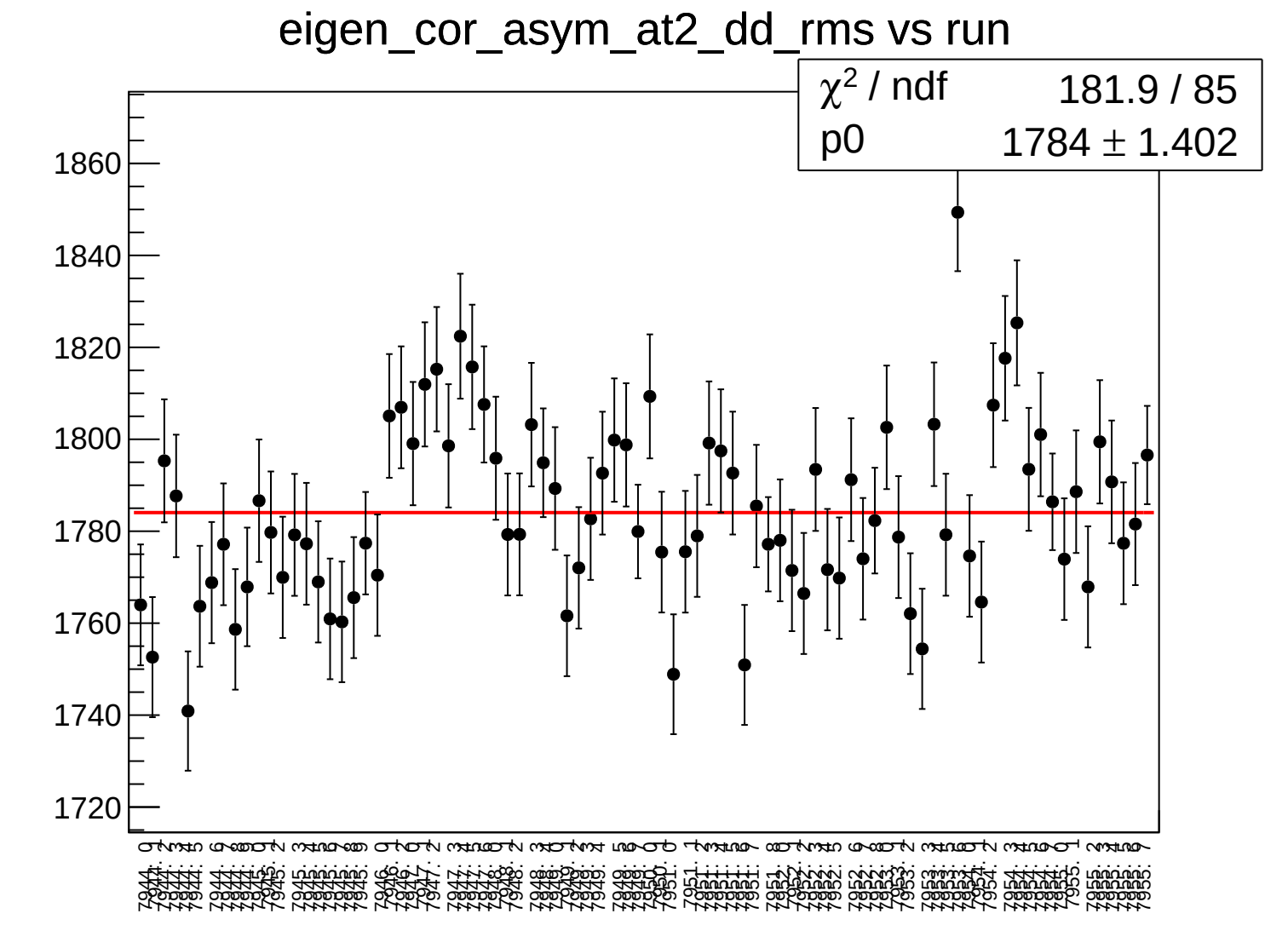

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.15 / 85
p0 −81.48 ± 3243
100
50
0
−50
−100
pull
Entries 86
Mean −1508
Std Dev 0
3
2
1
0
−1
−2

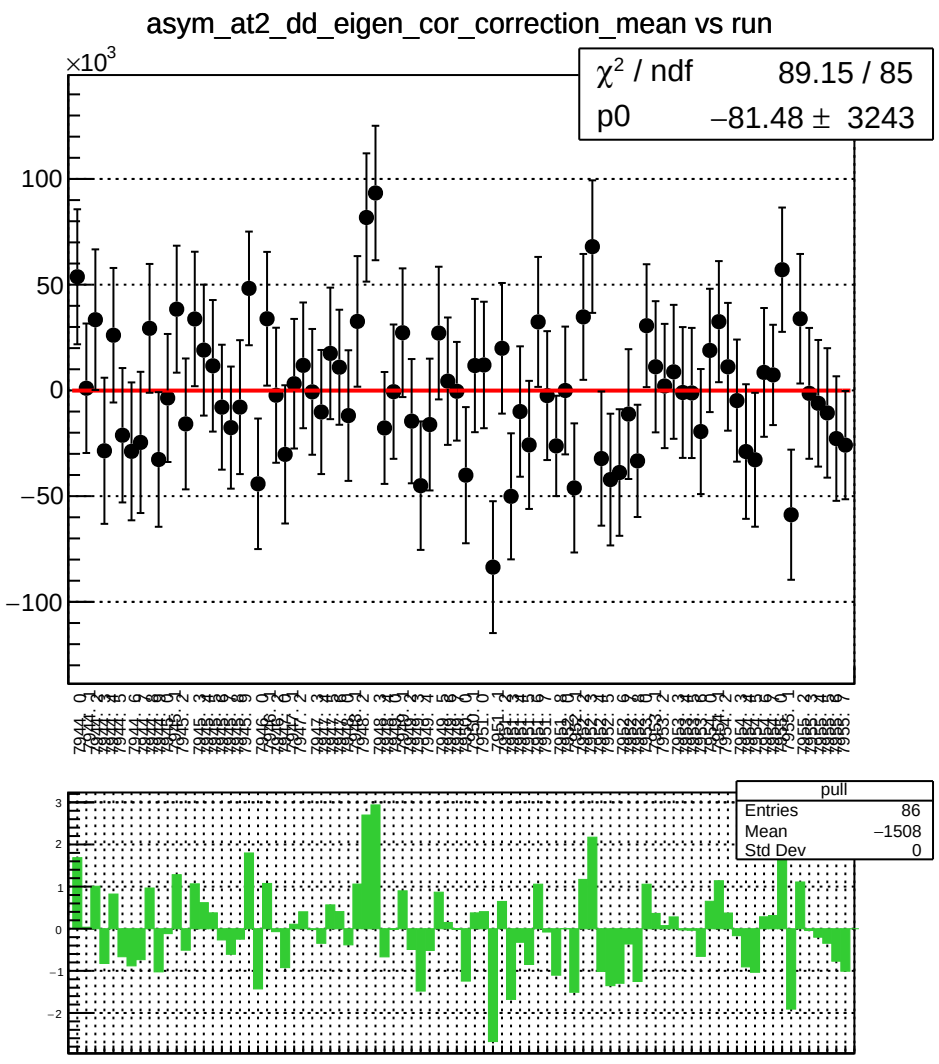

pull1D
Entries 86
Mean 0.002103
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

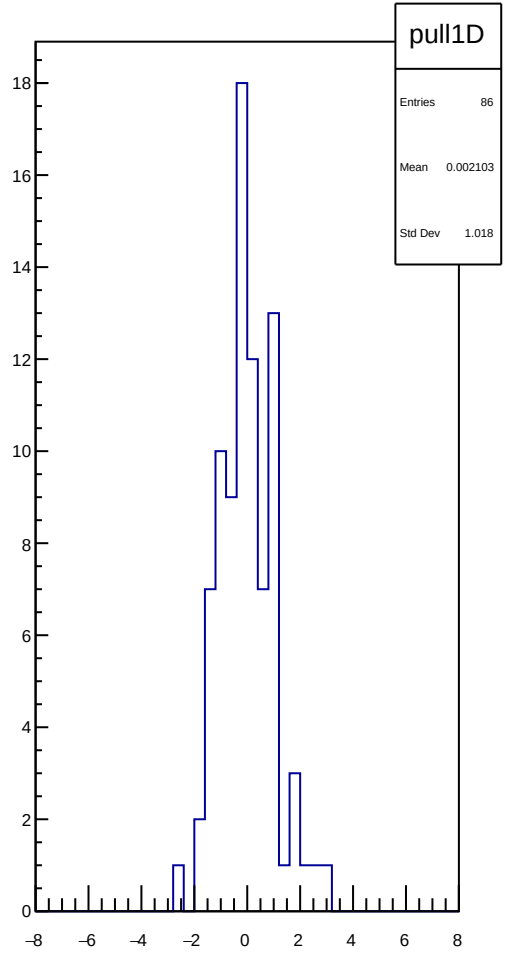

asym_at2_dd_cor_correction_rms vs run
χ^2 / ndf 1945 / 85
p0 2917 ± 2.293
3300
3200
3100
3000
2900
2800
2700

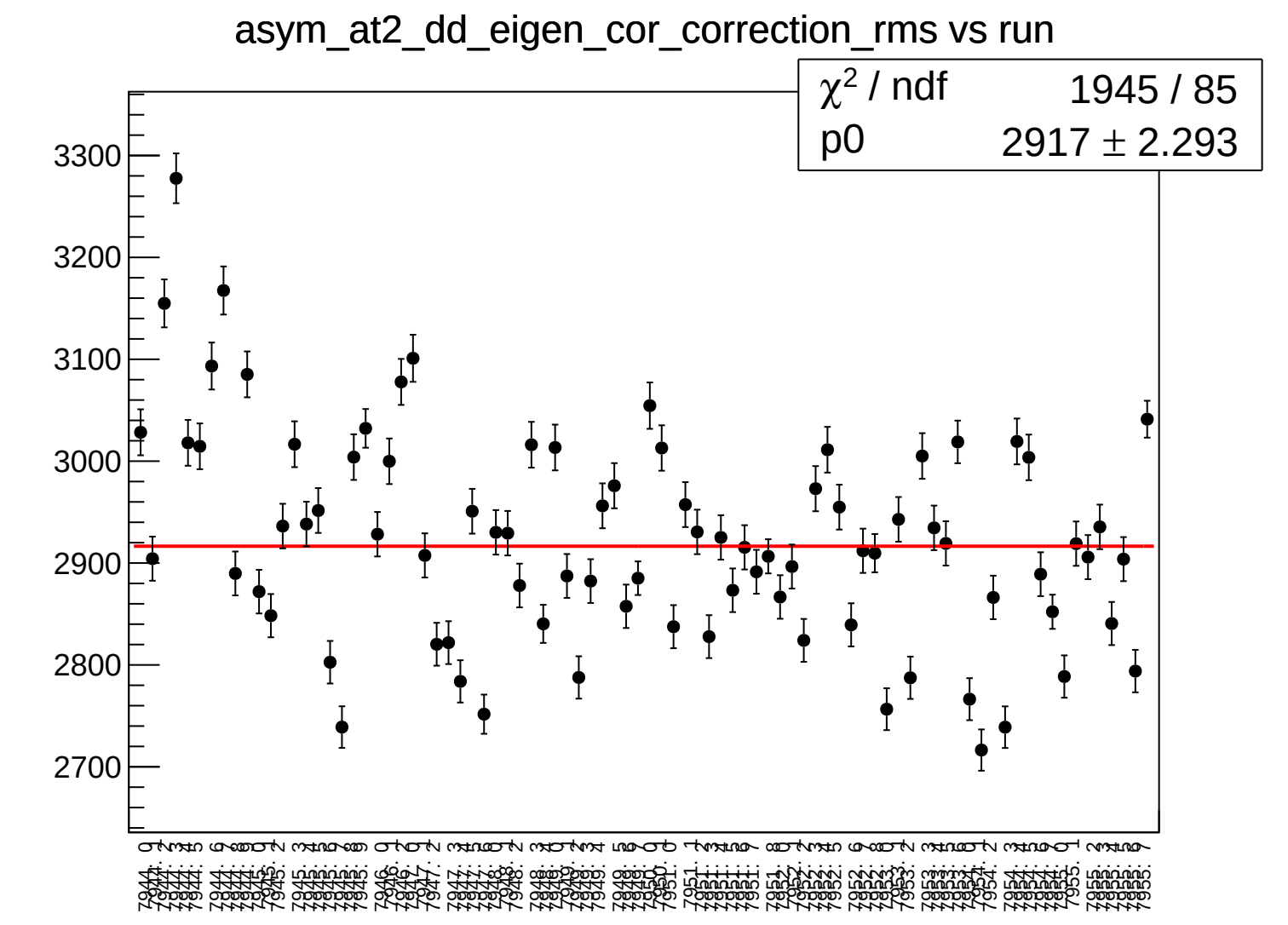

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 90.27 / 85
p0 1026 ± 1983
pull
Entries 86
Mean −933
Std Dev 0

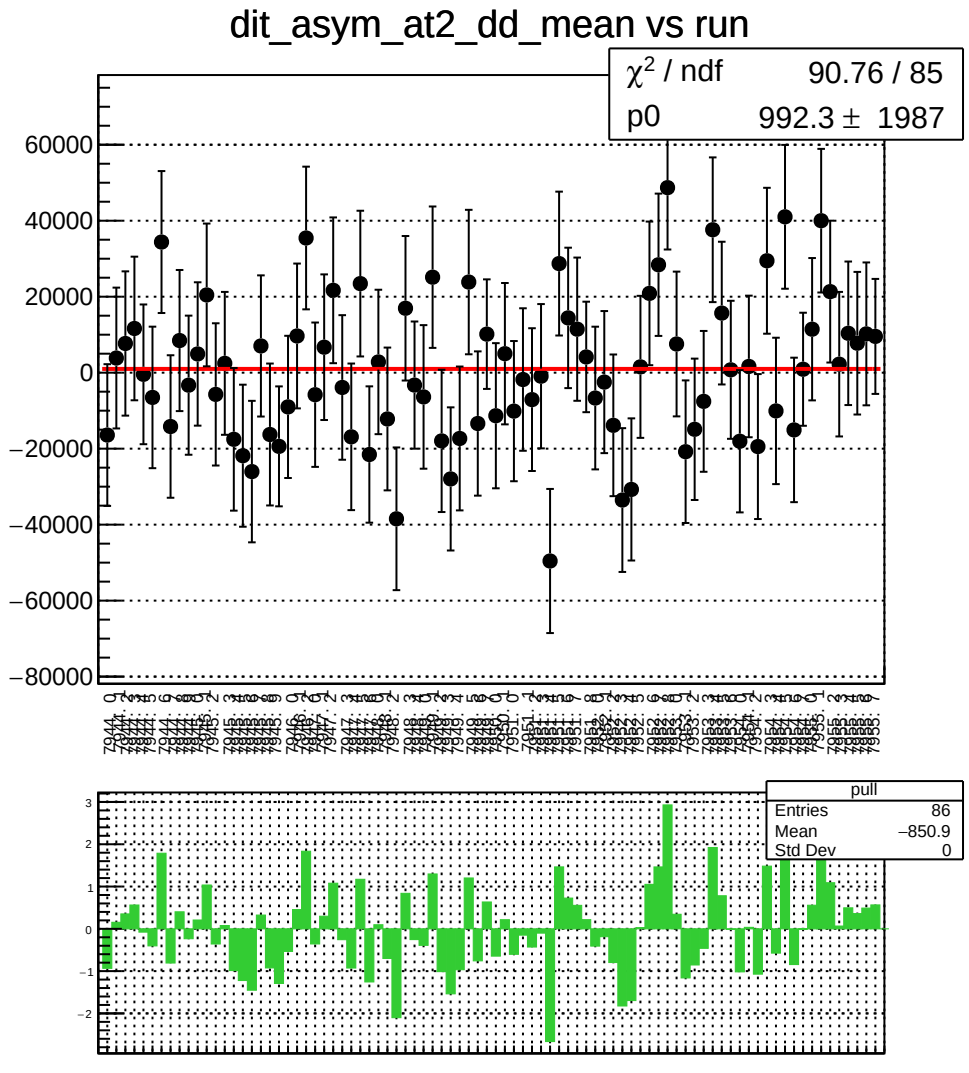

pull1D
Entries 86
Mean −0.00423
Std Dev 1.025

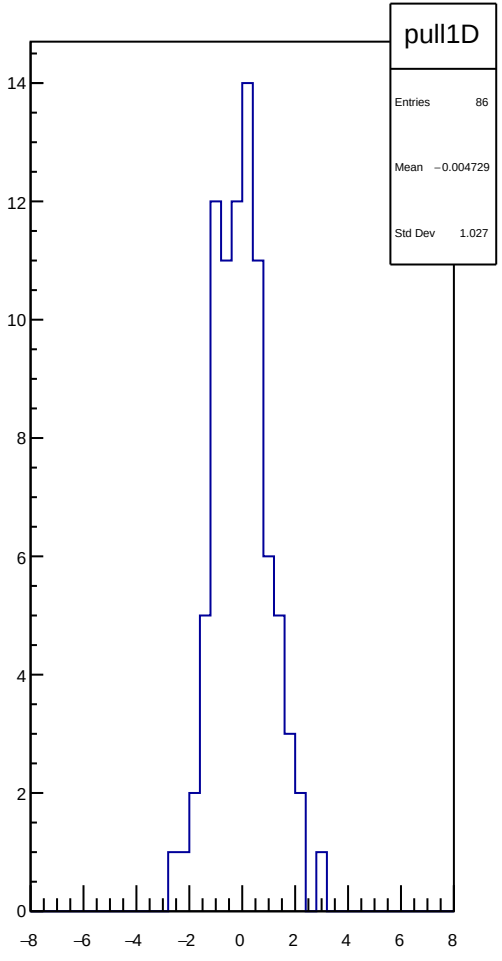

eigen_cor_asym_at2_dd_rms vs run
χ^2 / ndf 181.9 / 85
p0 1784 ± 1.402
1860
1840
1820
1800
1780
1760
1740
1720

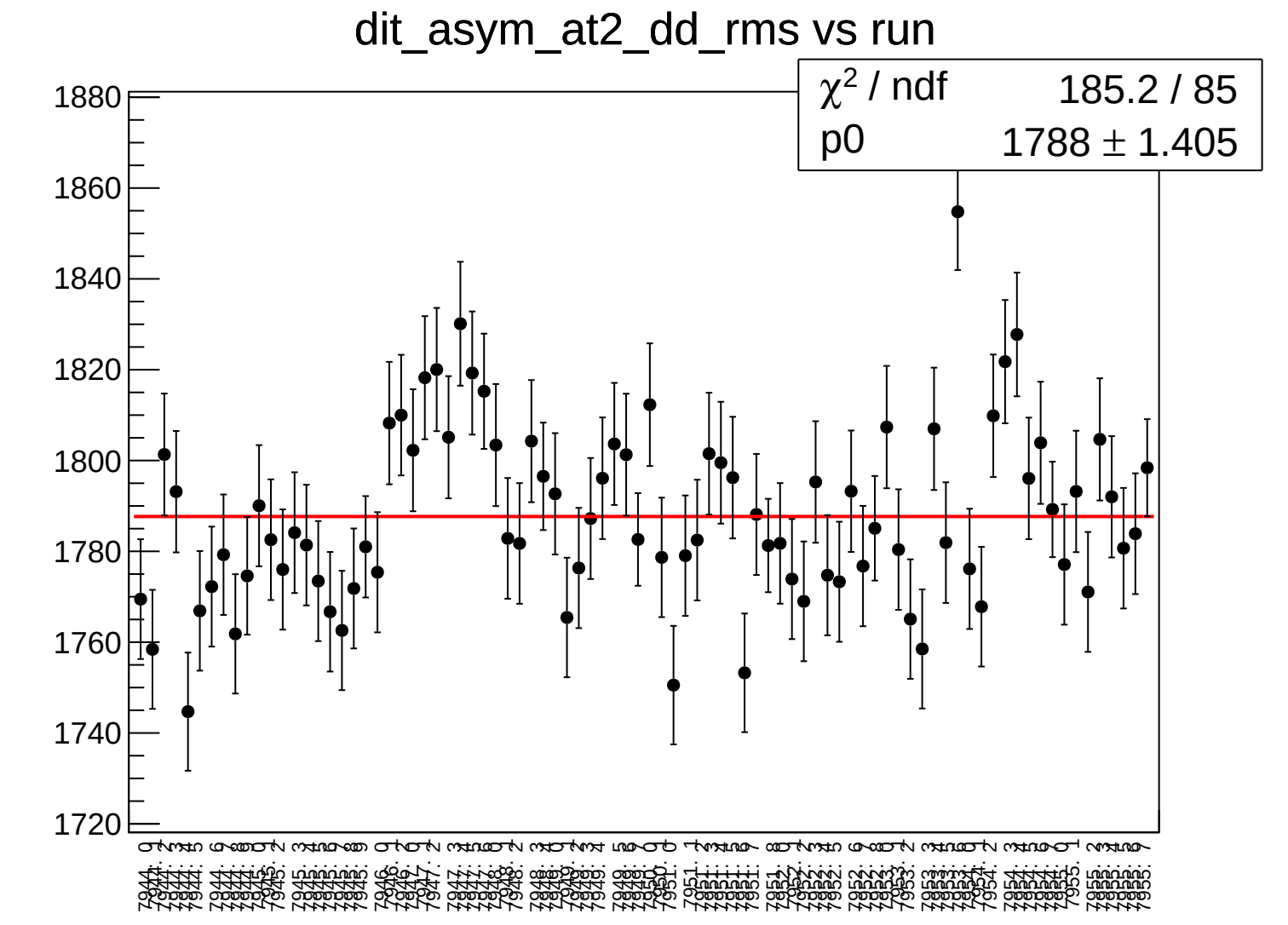

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.15 / 85
p0 −81.48 ± 3243
100
50
0
−50
−100
pull
Entries 86
Mean −1508
Std Dev 0
3
2
1
0
−1
−2

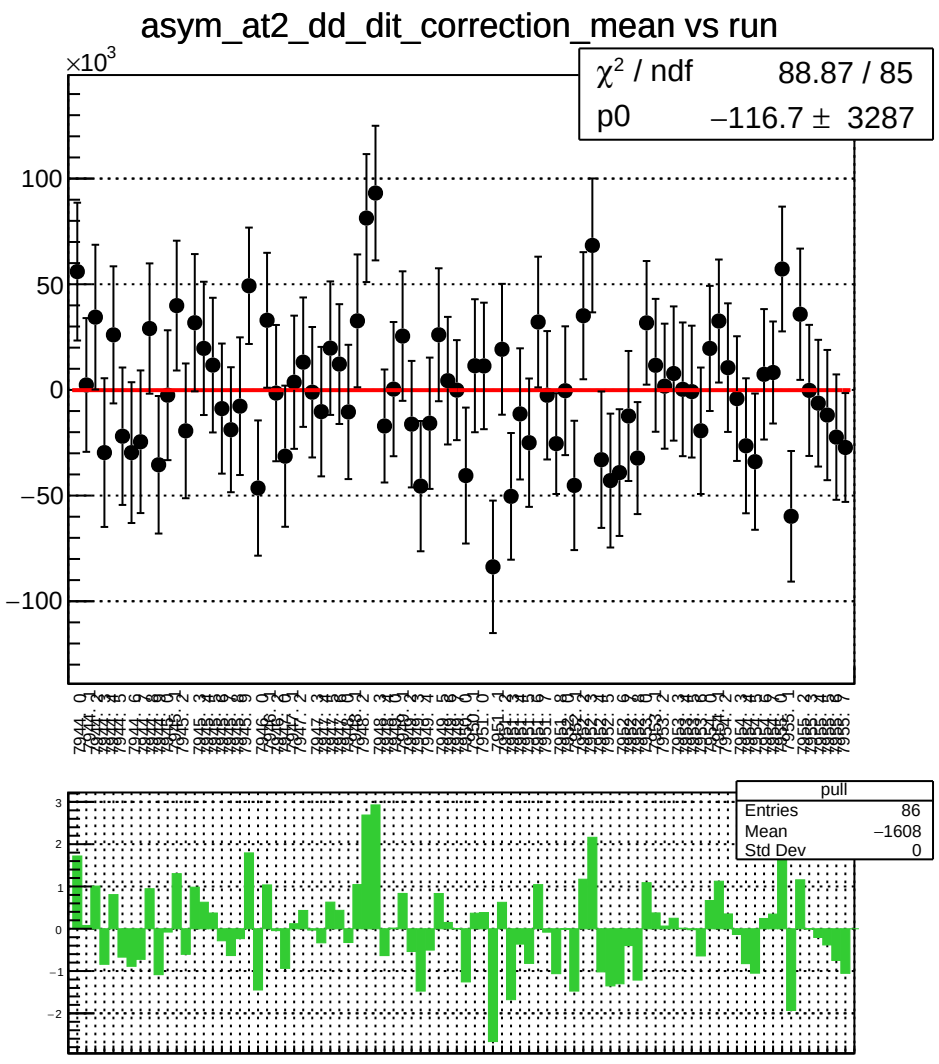

pull1D
Entries 86
Mean 0.002103
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

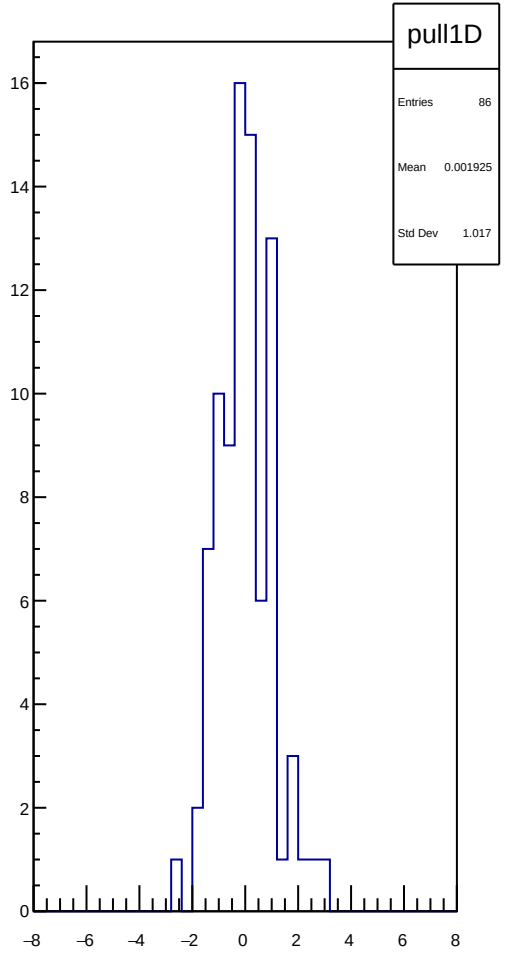

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1945 / 85
p0 2917 ± 2.293
3300
3200
3100
3000
2900
2800
2700

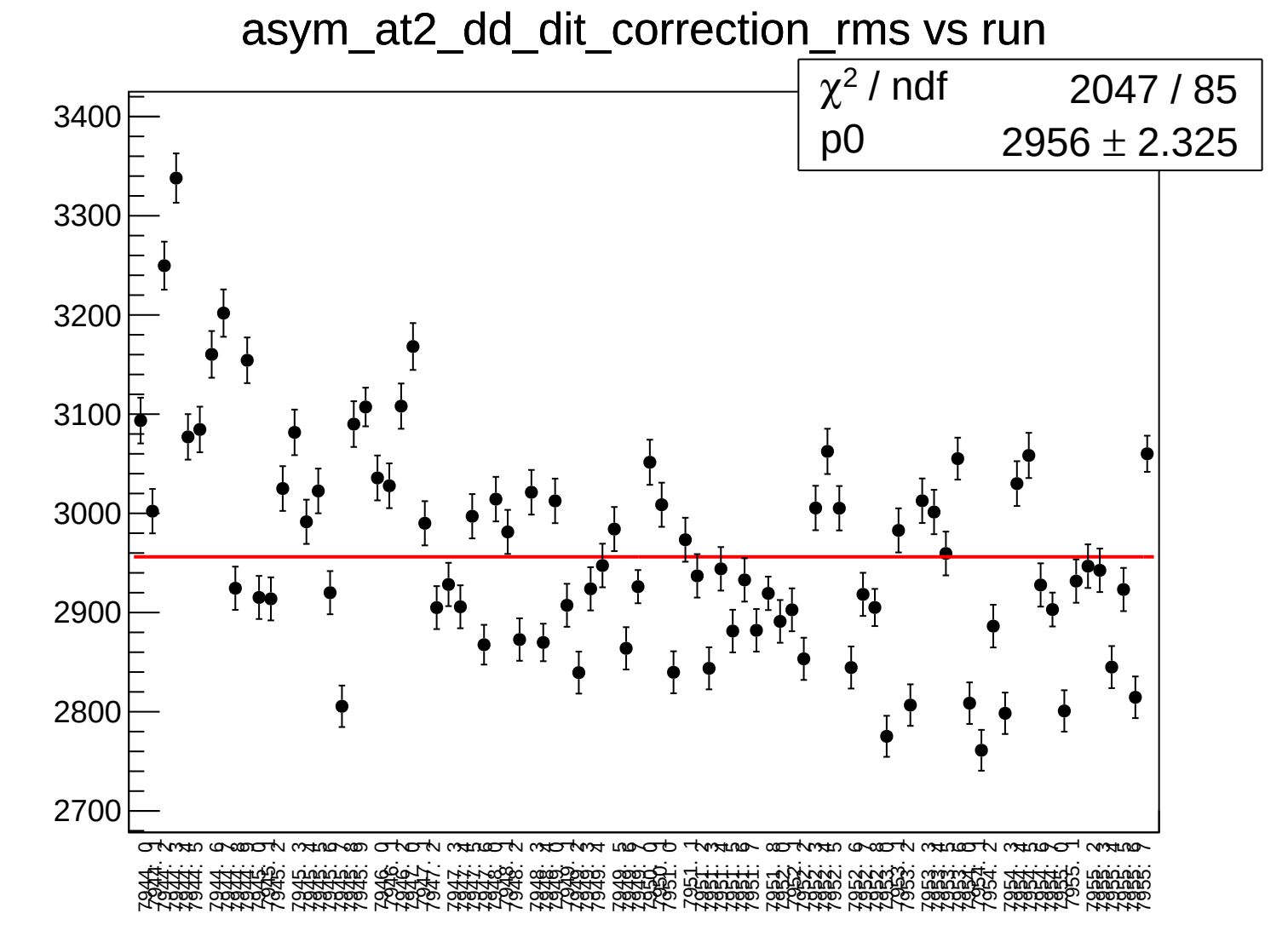

dit_asym_at2_dd_mean vs run
χ² / ndf 90.76 / 85
p0 992.3 ± 1987
pull
Entries 86
Mean −850.9
Std Dev 0

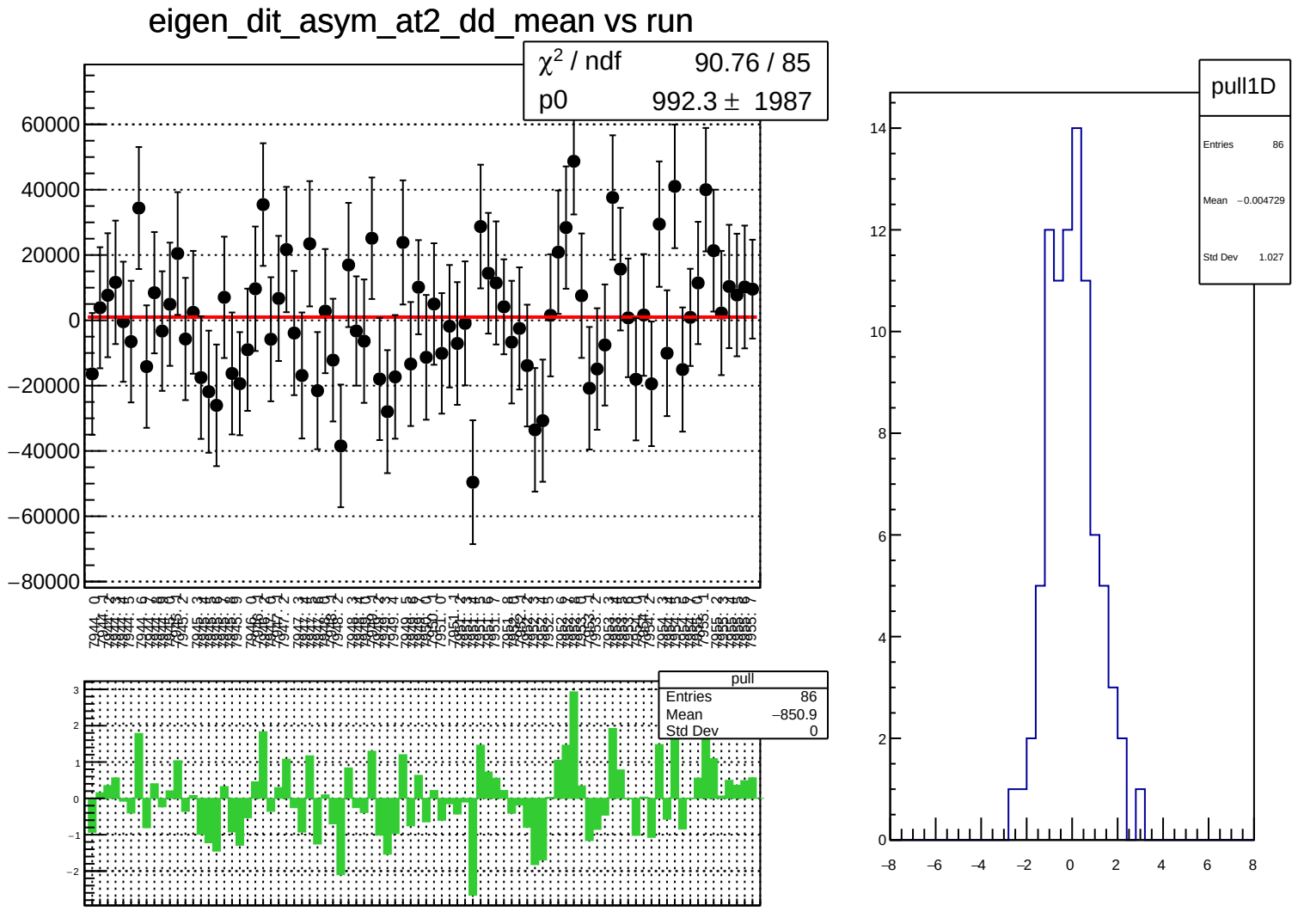

pull1D
Entries 86
Mean −0.004729
Std Dev 1.027

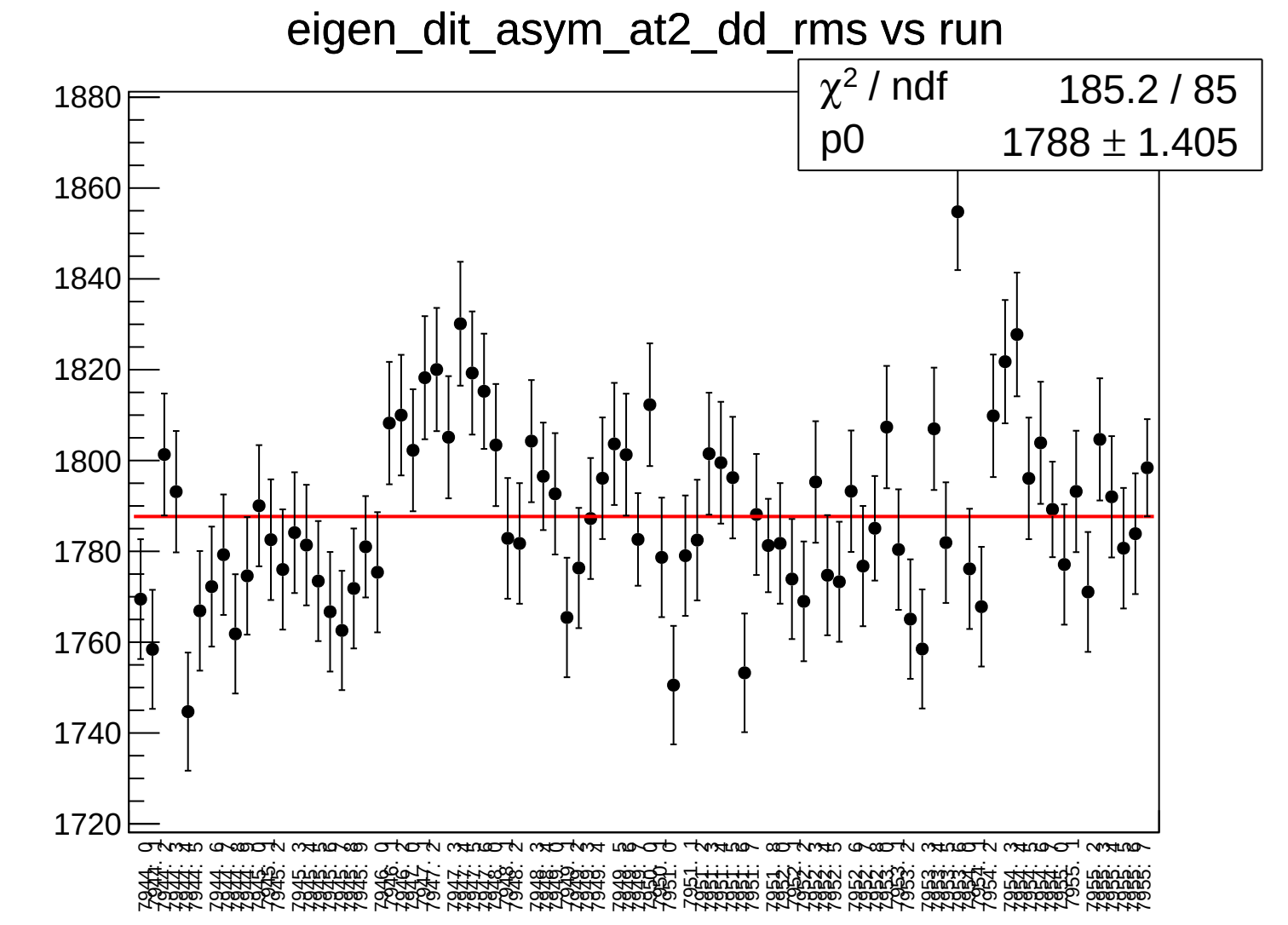

dit_asym_at2_dd_rms vs run
χ^2 / ndf 185.2 / 85
p0 1788 ± 1.405
1880
1860
1840
1820
1800
1780
1760
1740
1720

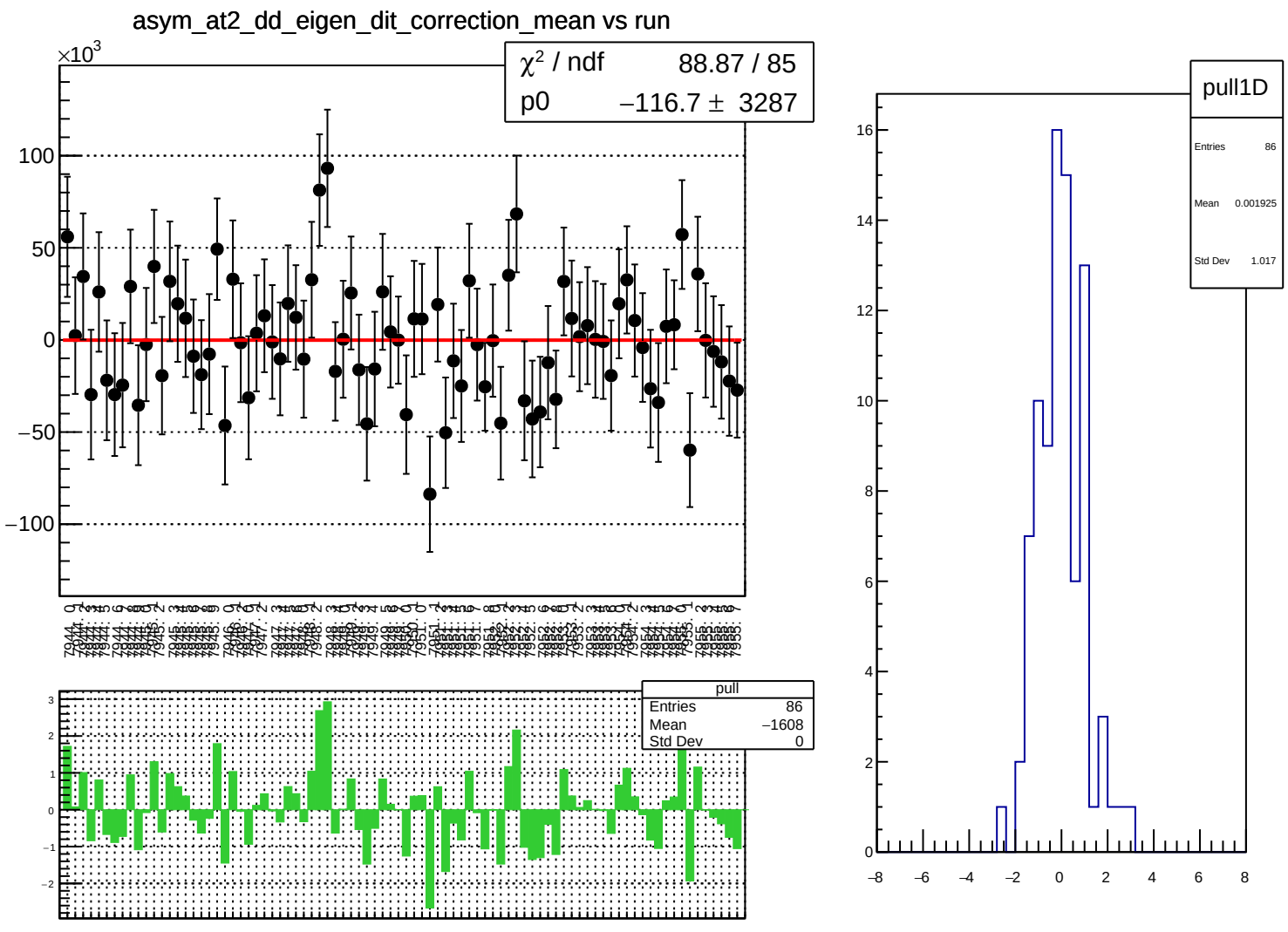

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.87 / 85
p0 −116.7 ± 3287
100
50
0
−50
−100
pull
Entries 86
Mean −1608
Std Dev 0
3
2
1
0
−1
−2

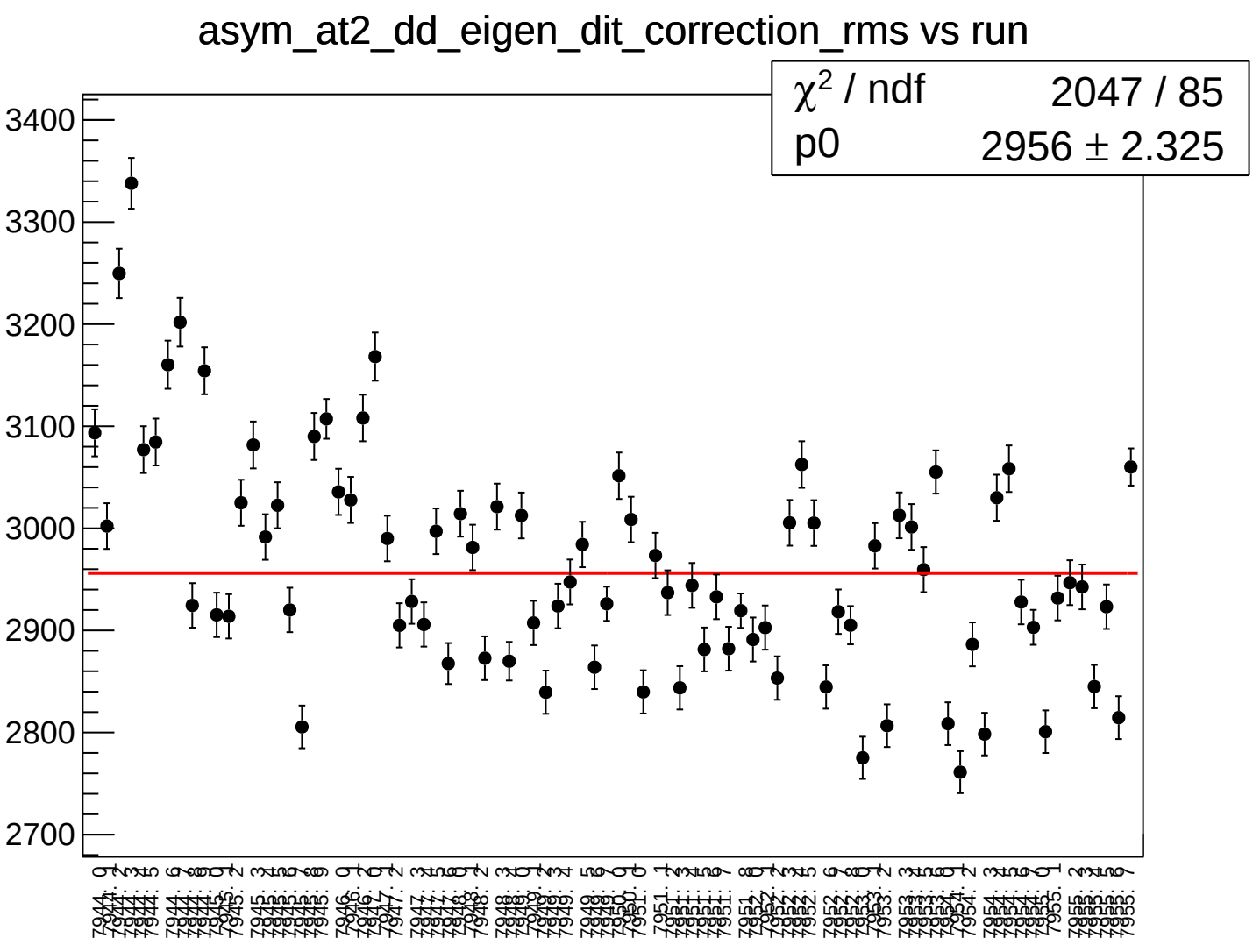

pull1D
Entries 86
Mean 0.001925
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

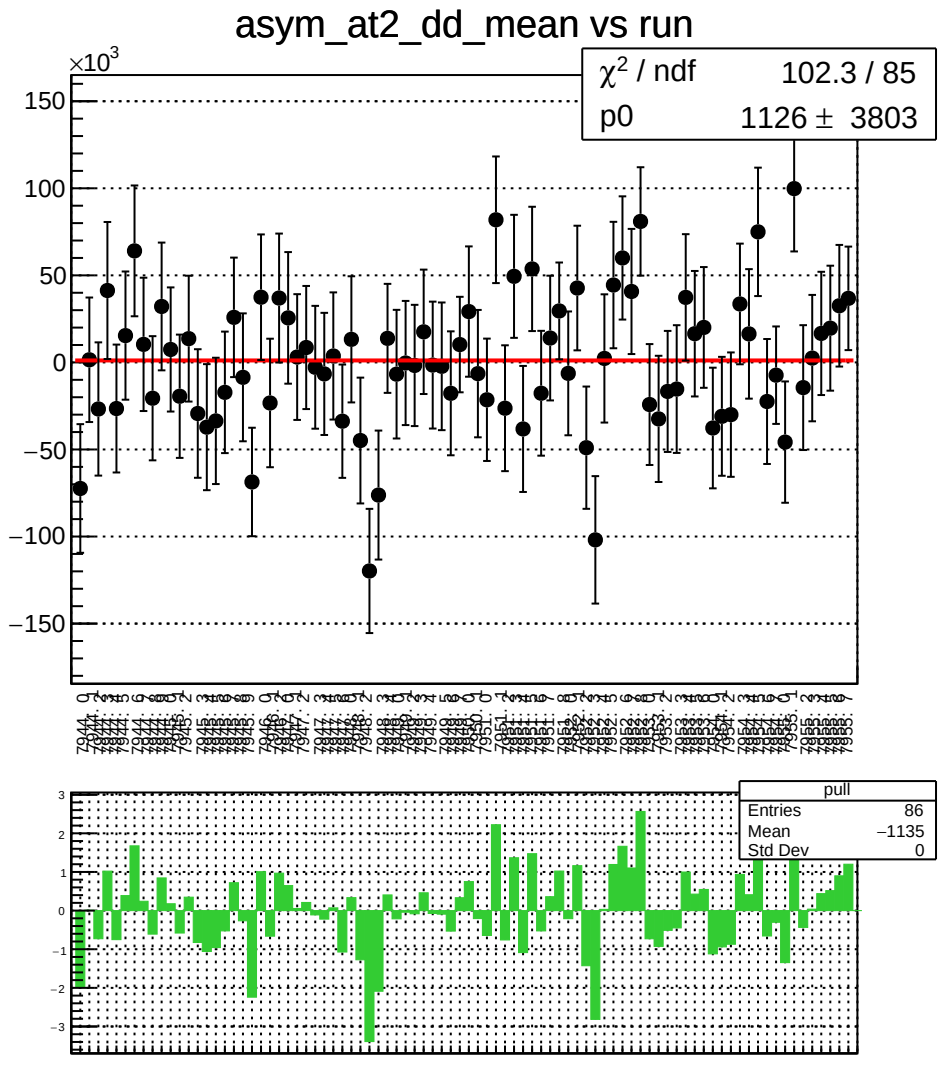

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2047 / 85
p0 2956 ± 2.325
3400
3300
3200
3100
3000
2900
2800
2700

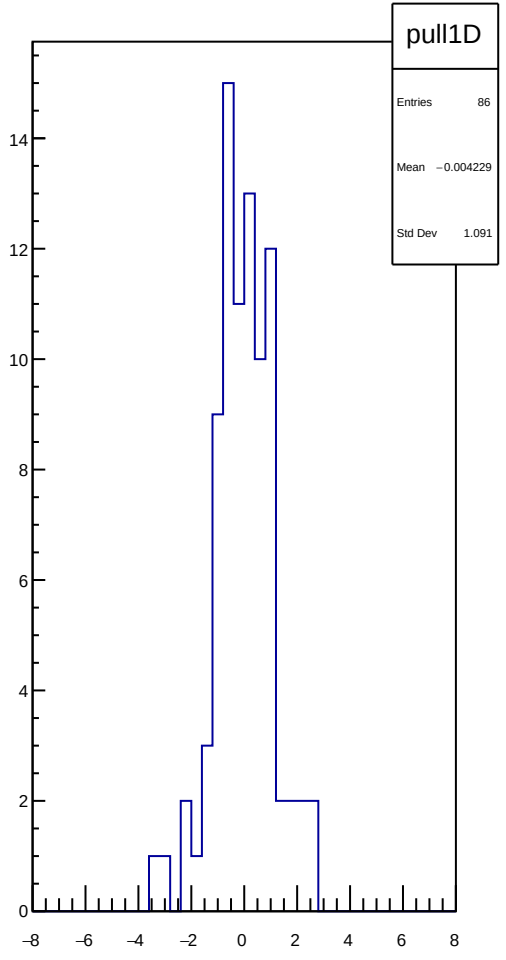

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 90.76 / 85
p0 992.3 ± 1987
pull
Entries 86
Mean −850.9
Std Dev 0
pull1D
Entries 86
Mean −0.004729
Std Dev 1.027

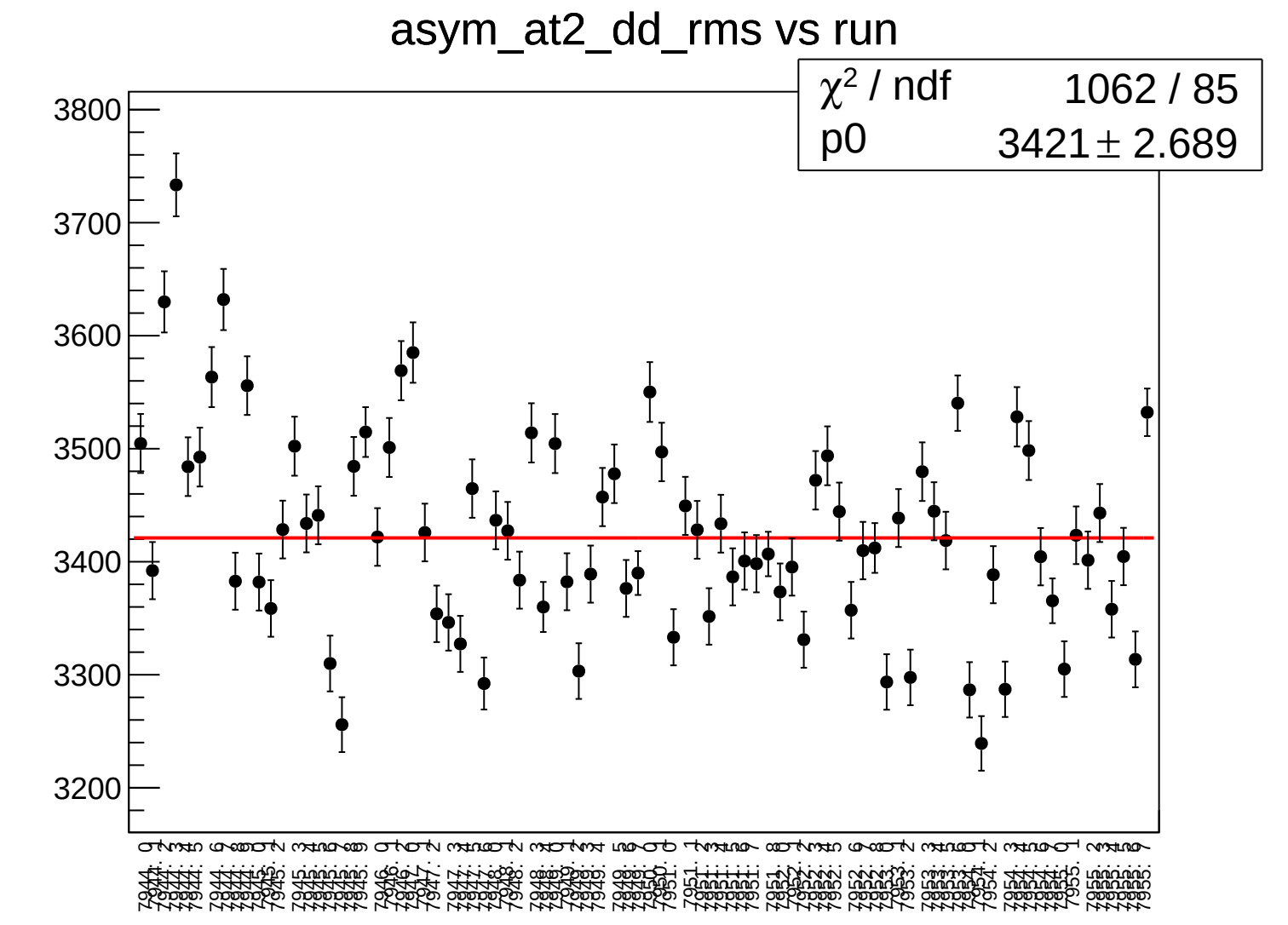

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 185.2 / 85
p0 1788 ± 1.405
1880
1860
1840
1820
1800
1780
1760
1740
1720

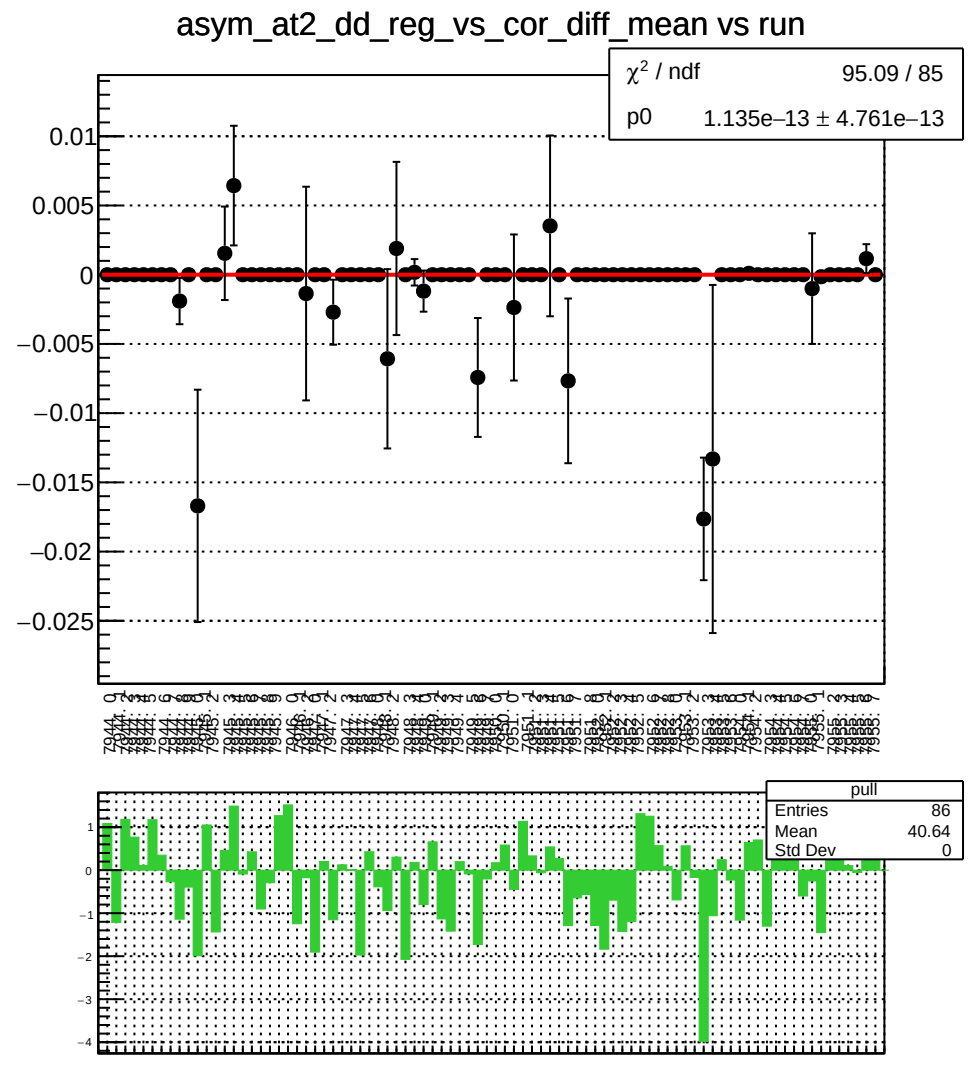

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.87 / 85
p0 −116.7 ± 3287
×10³
100
50
0
−50
−100
pull
Entries 86
Mean −1608
Std Dev 0
pull1D
Entries 86
Mean 0.001925
Std Dev 1.017

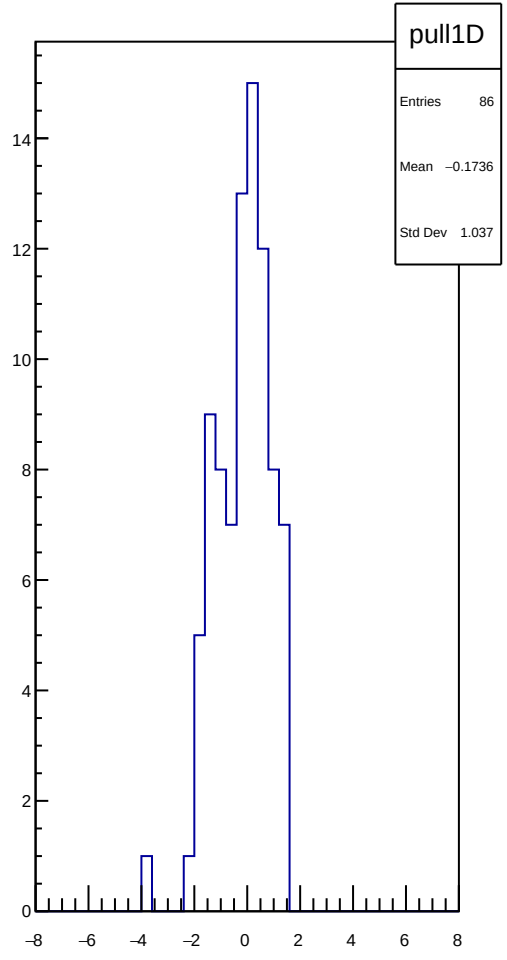

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2047 / 85
p0 2956 ± 2.325
3400
3300
3200
3100
3000
2900
2800
2700

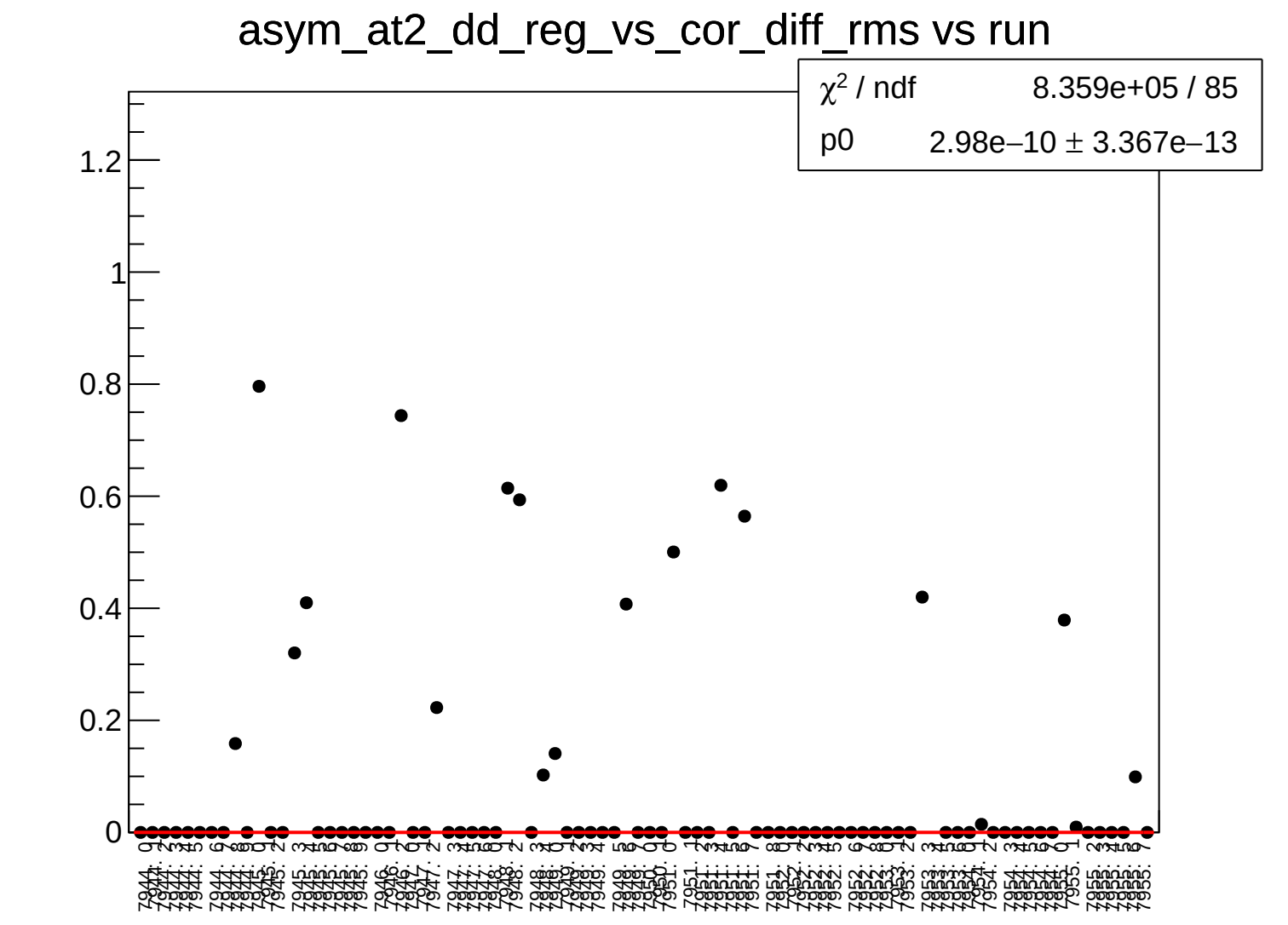

asym_at2_dd_mean vs run
×10^3
χ² / ndf 102.3 / 85
p0 1126 ± 3803
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −1135
Std Dev 0
3
2
1
0
−1
−2
−3

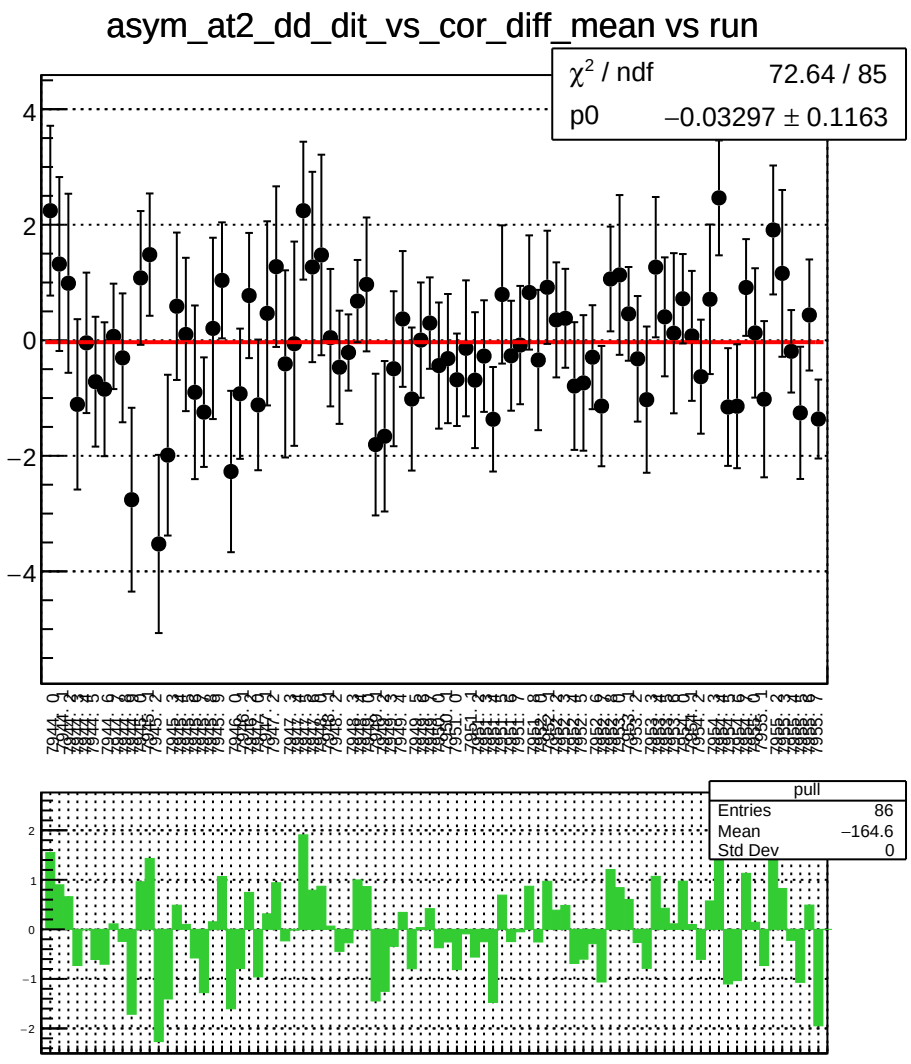

pull1D
Entries 86
Mean −0.004229
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

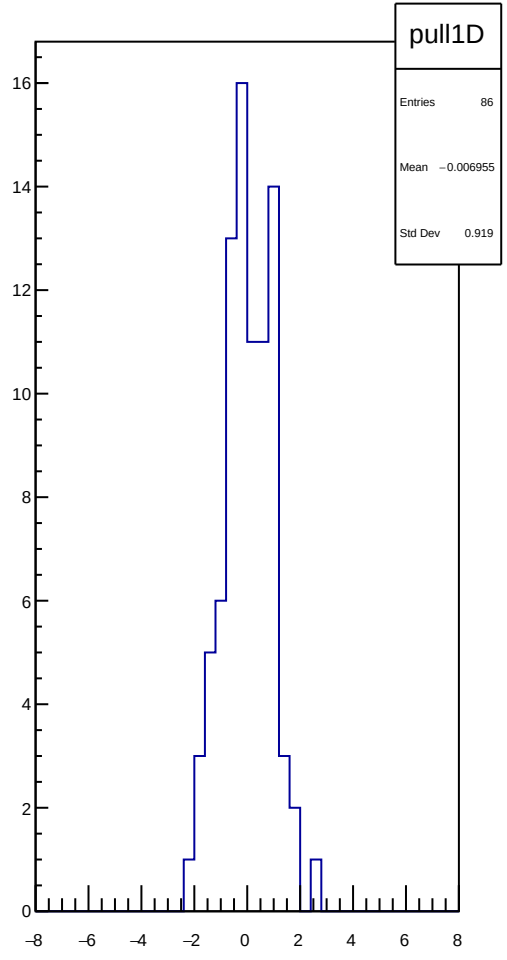

asym_at2_dd_rms vs run
χ² / ndf 1062 / 85
p0 3421 ± 2.689
3800
3700
3600
3500
3400
3300
3200

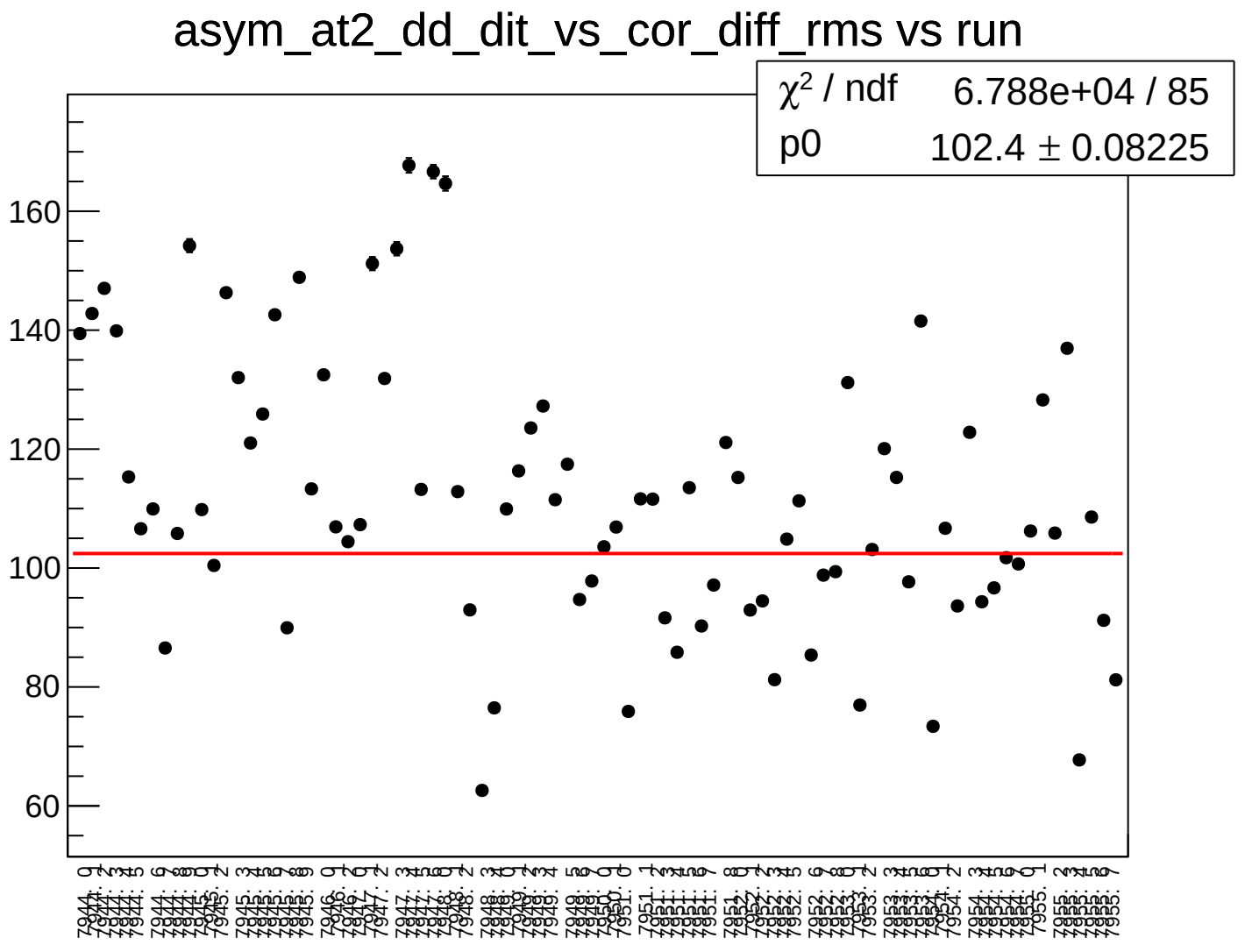

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.09 / 85
p0 1.135e−13 ± 4.761e−13
pull
Entries 86
Mean 40.64
Std Dev 0


pull1D
Entries 86
Mean −0.1736
Std Dev 1.037

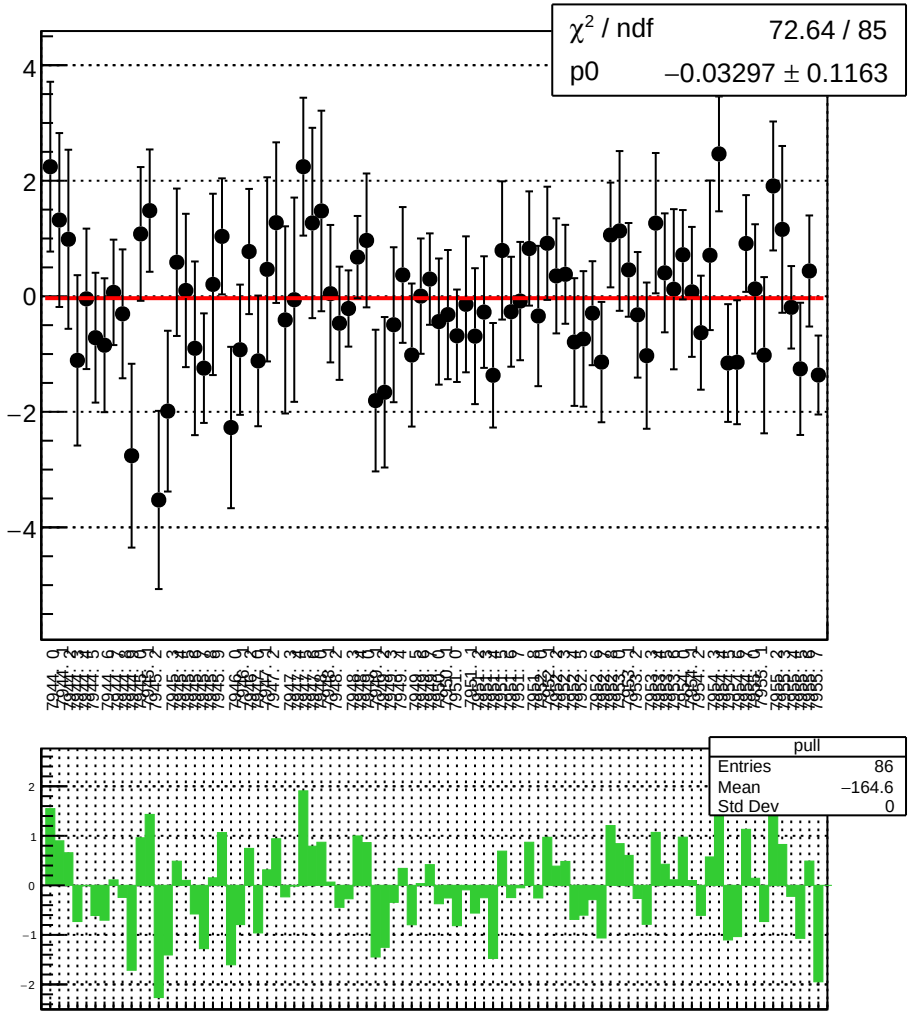

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.359e+05 / 85
p0 2.98e−10 ± 3.367e−13
1.2
1
0.8
0.6
0.4
0.2
0

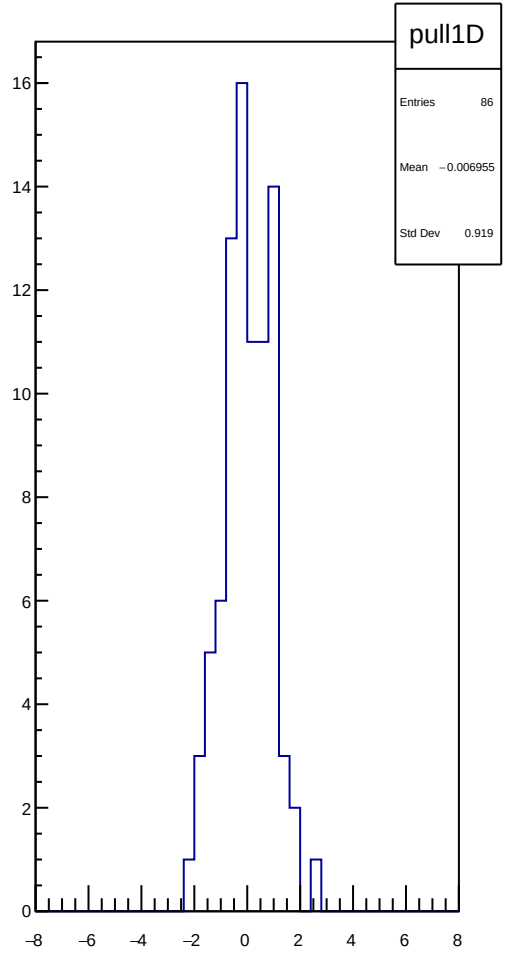

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.64 / 85
p0 −0.03297 ± 0.1163
pull
Entries 86
Mean −164.6
Std Dev 0

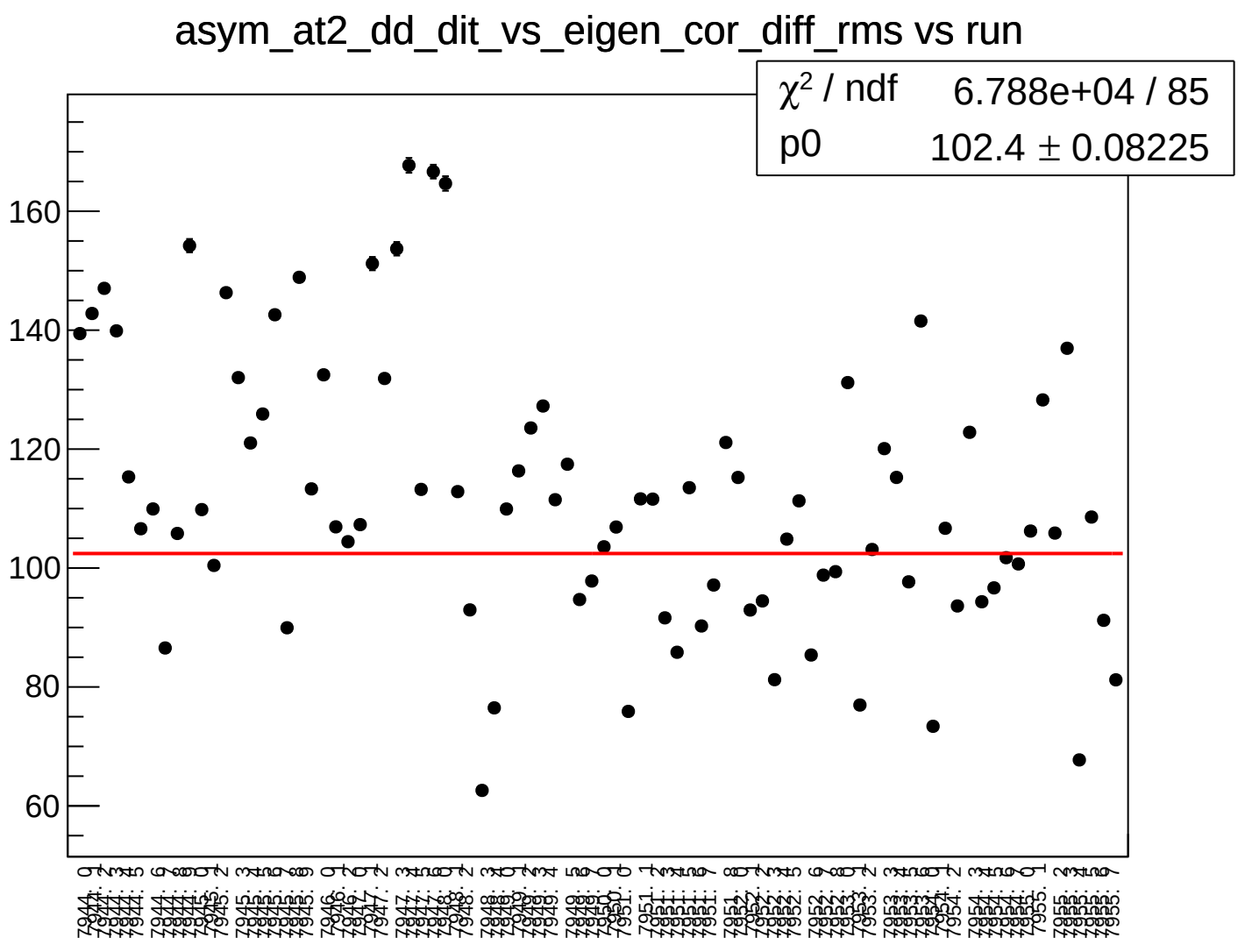

pull1D
Entries 86
Mean −0.006955
Std Dev 0.919

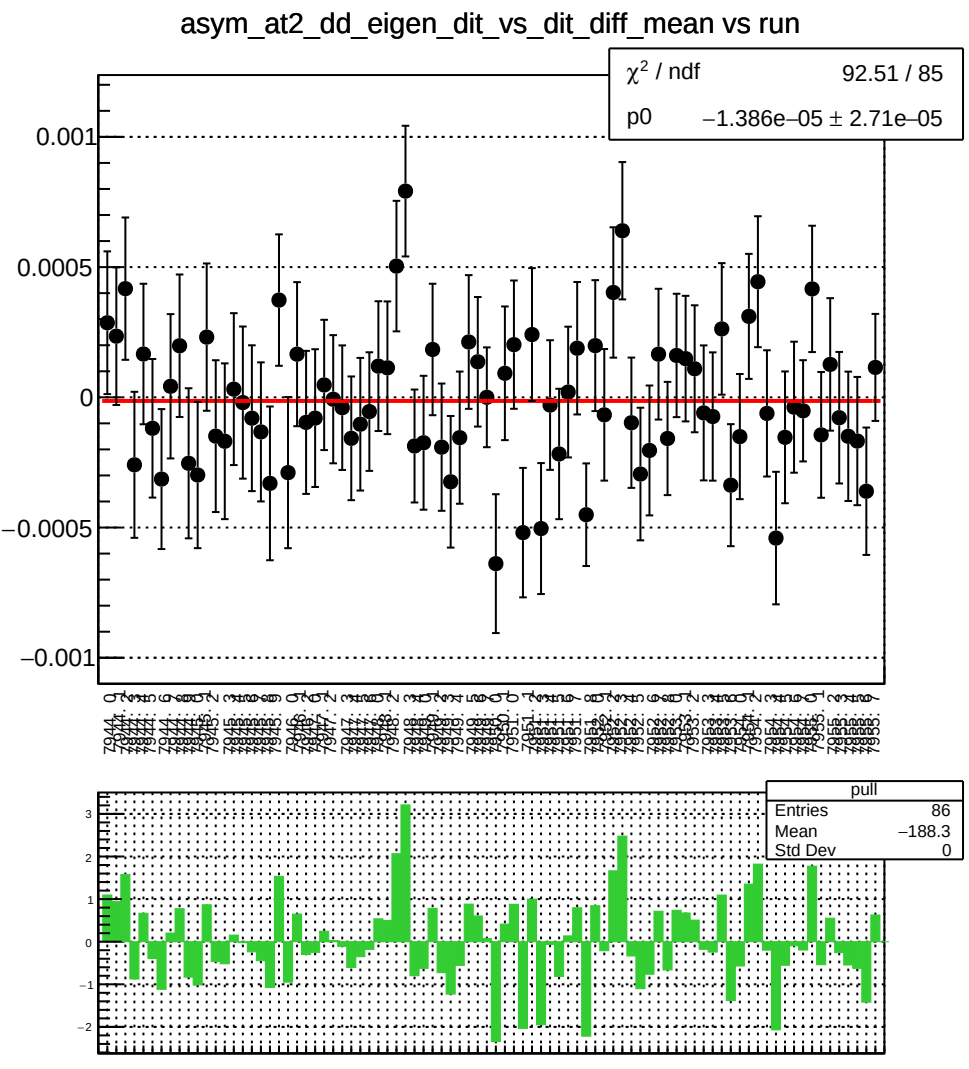

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.788e+04 / 85
p0 102.4 ± 0.08225
160
140
120
100
80
60

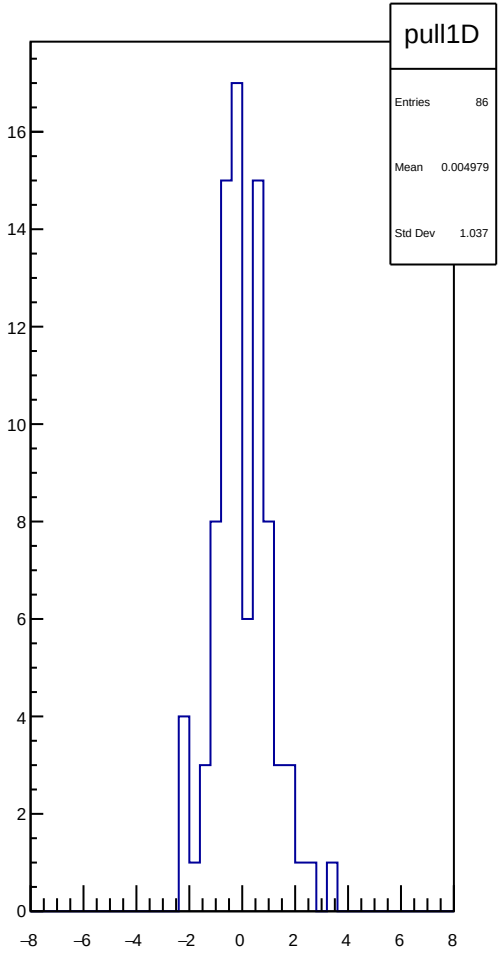
asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run

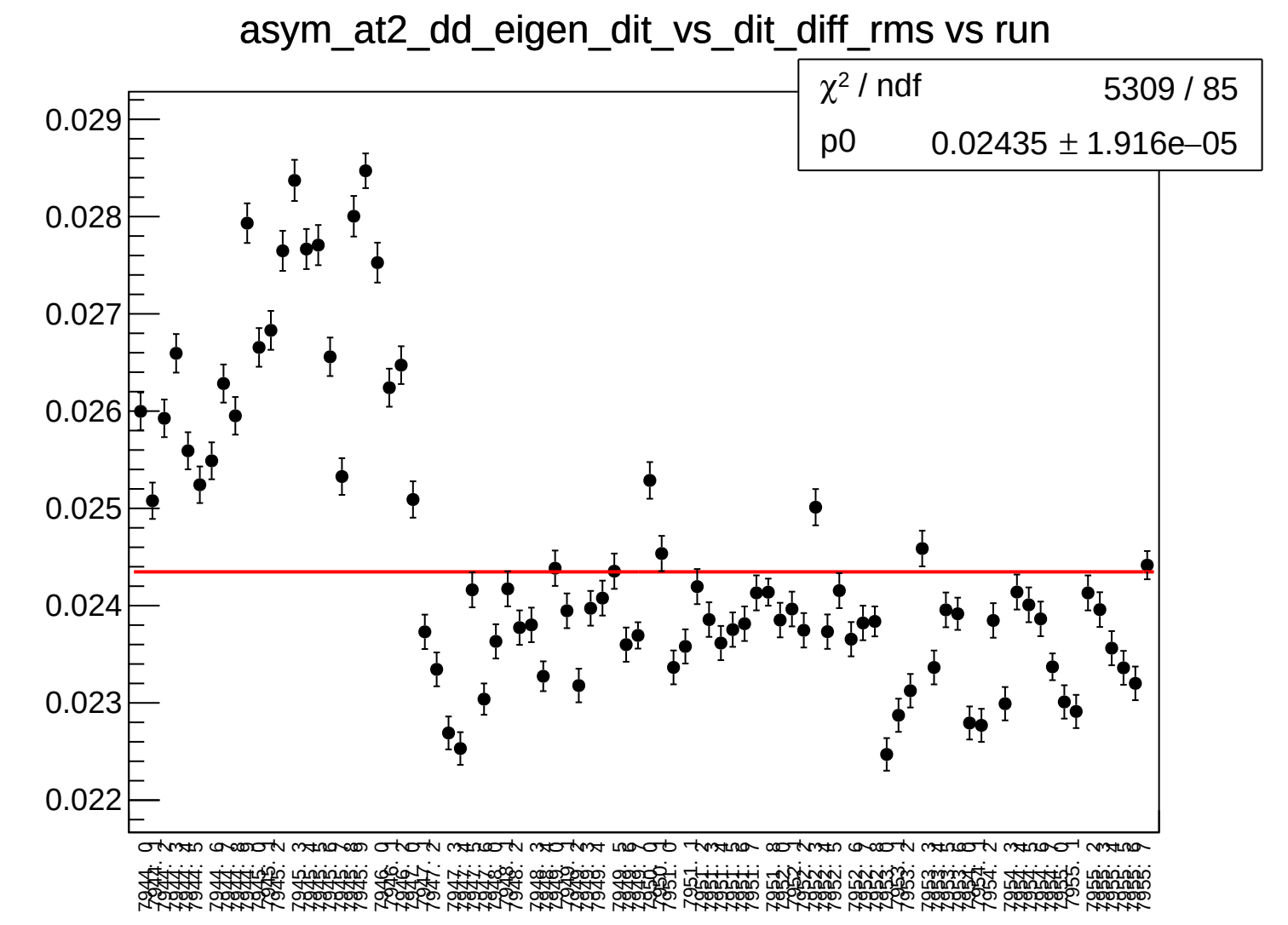




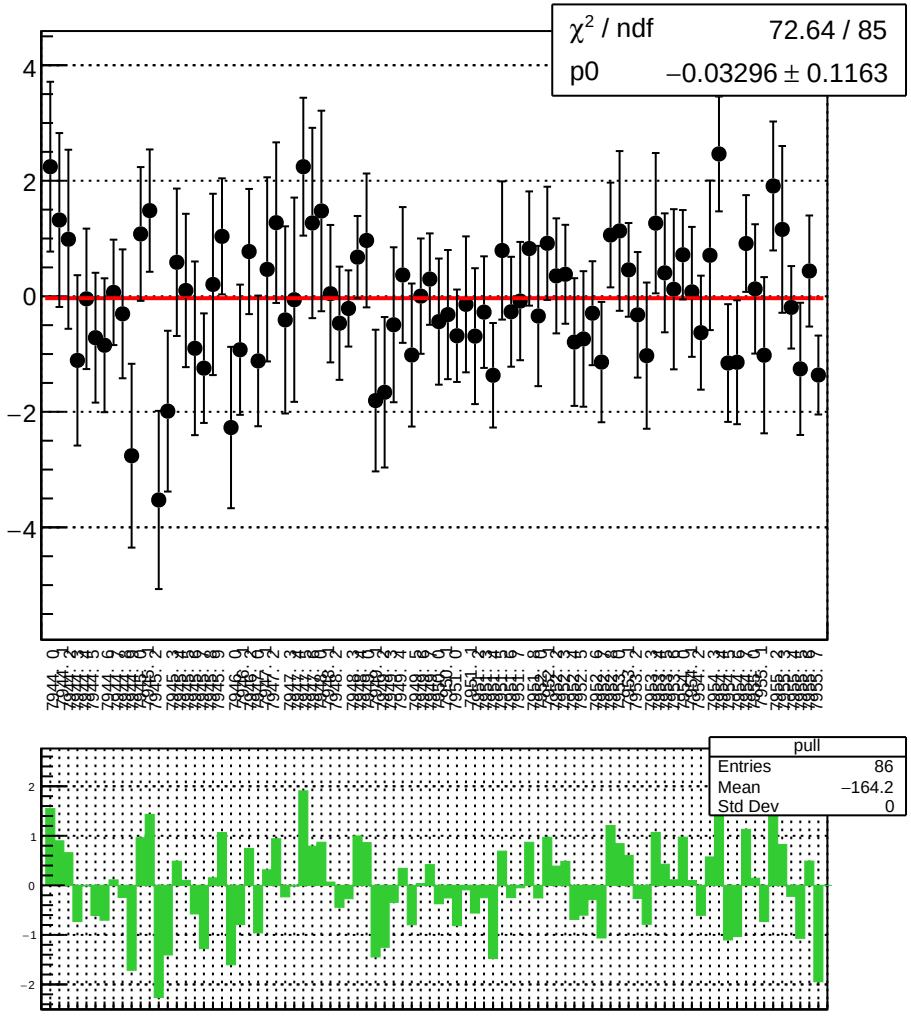

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.788e+04 / 85
p0 102.4 ± 0.08225
160
140
120
100
80
60

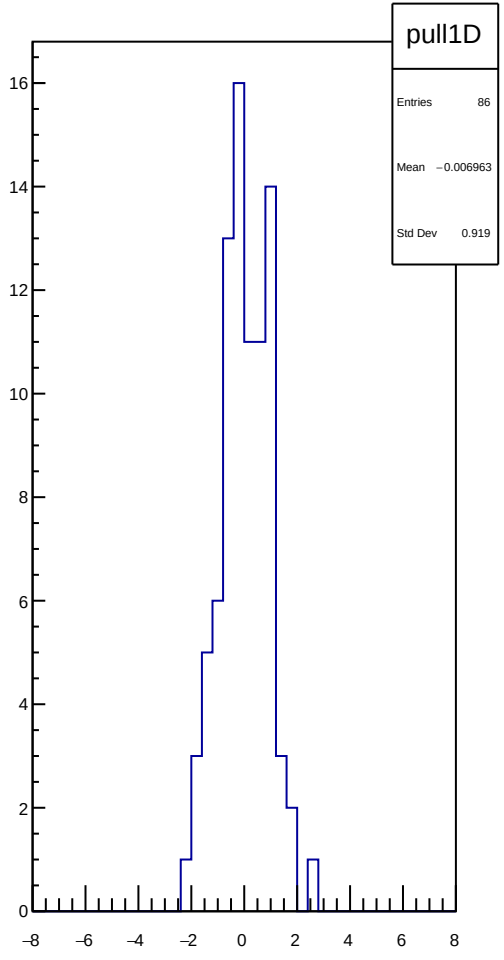

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 92.51 / 85
p0 −1.386e−05 ± 2.71e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean −188.3
Std Dev 0
3
2
1
0
−1
−2

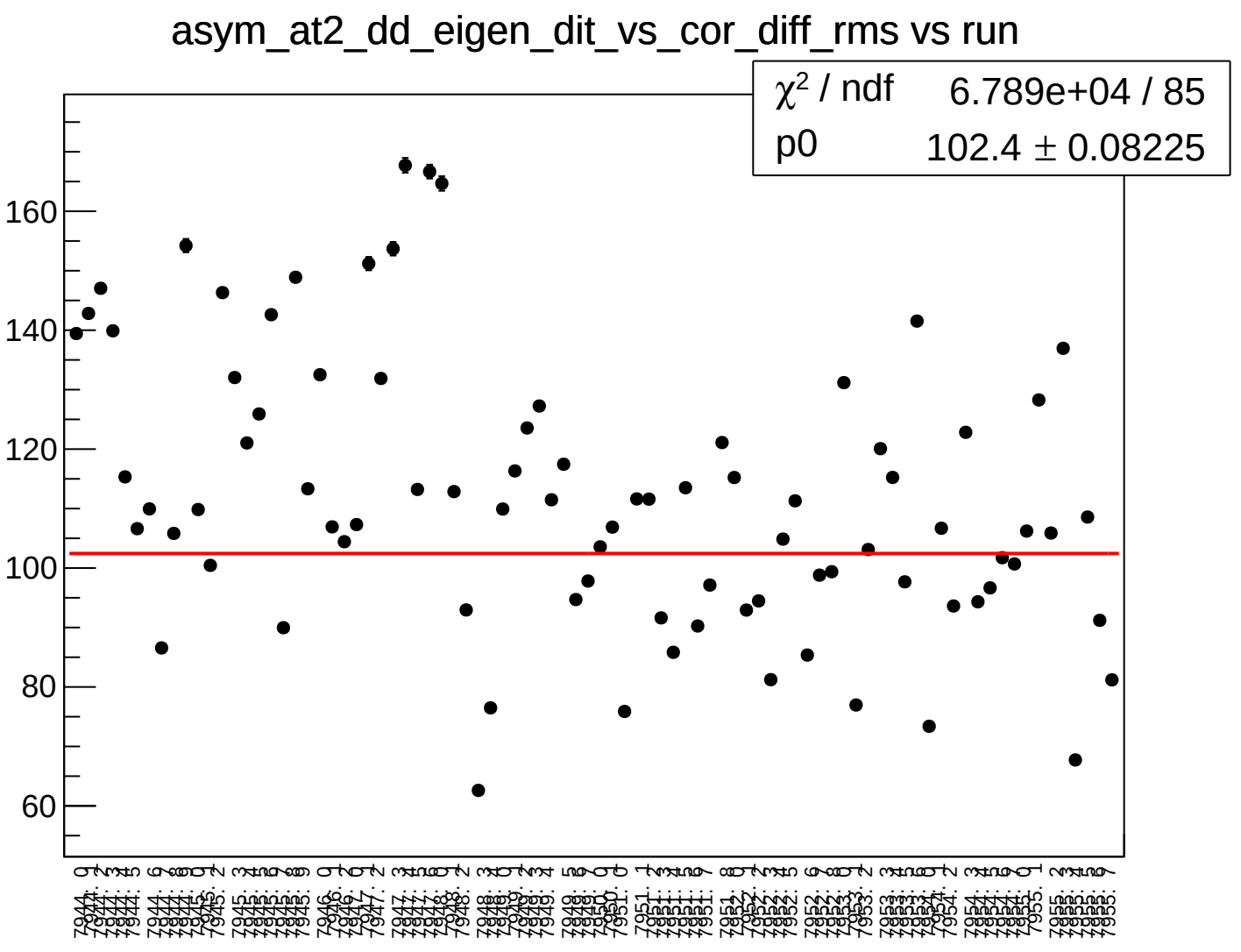

pull1D
Entries 86
Mean 0.004979
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

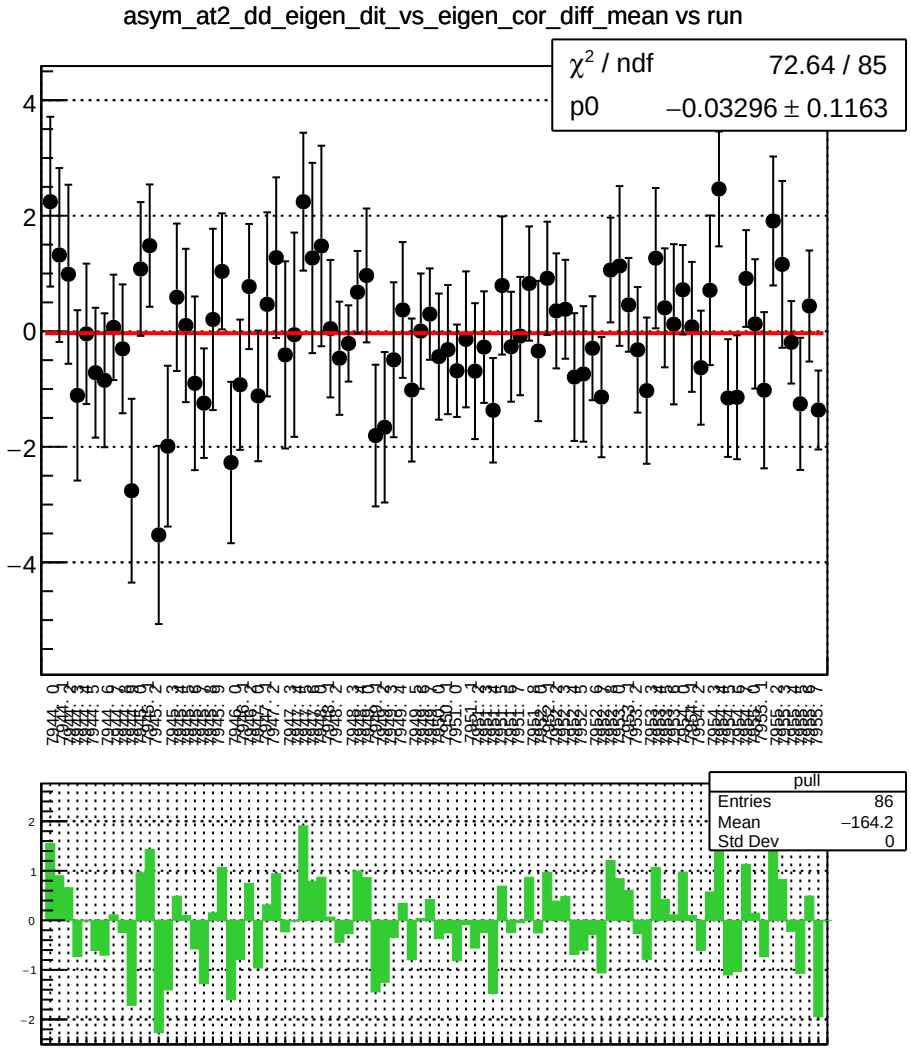

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5309 / 85
p0 0.02435 ± 1.916e−05
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022

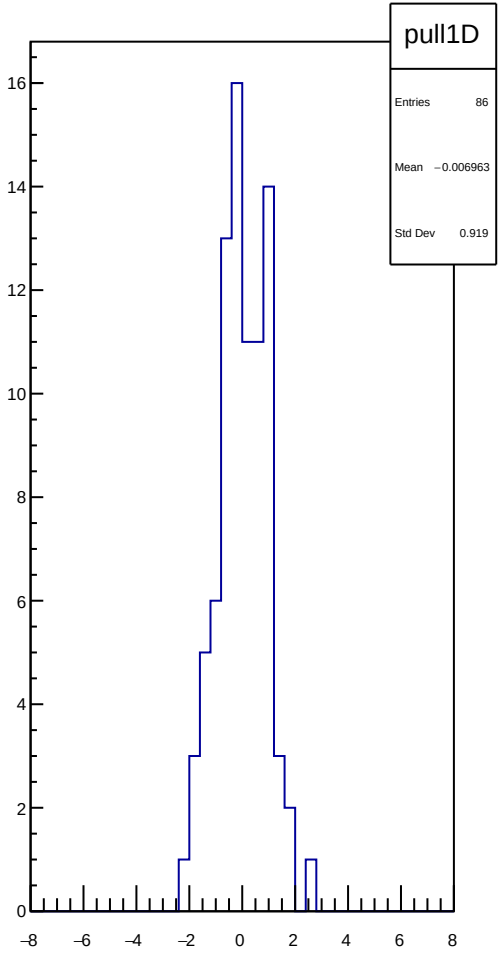
asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run

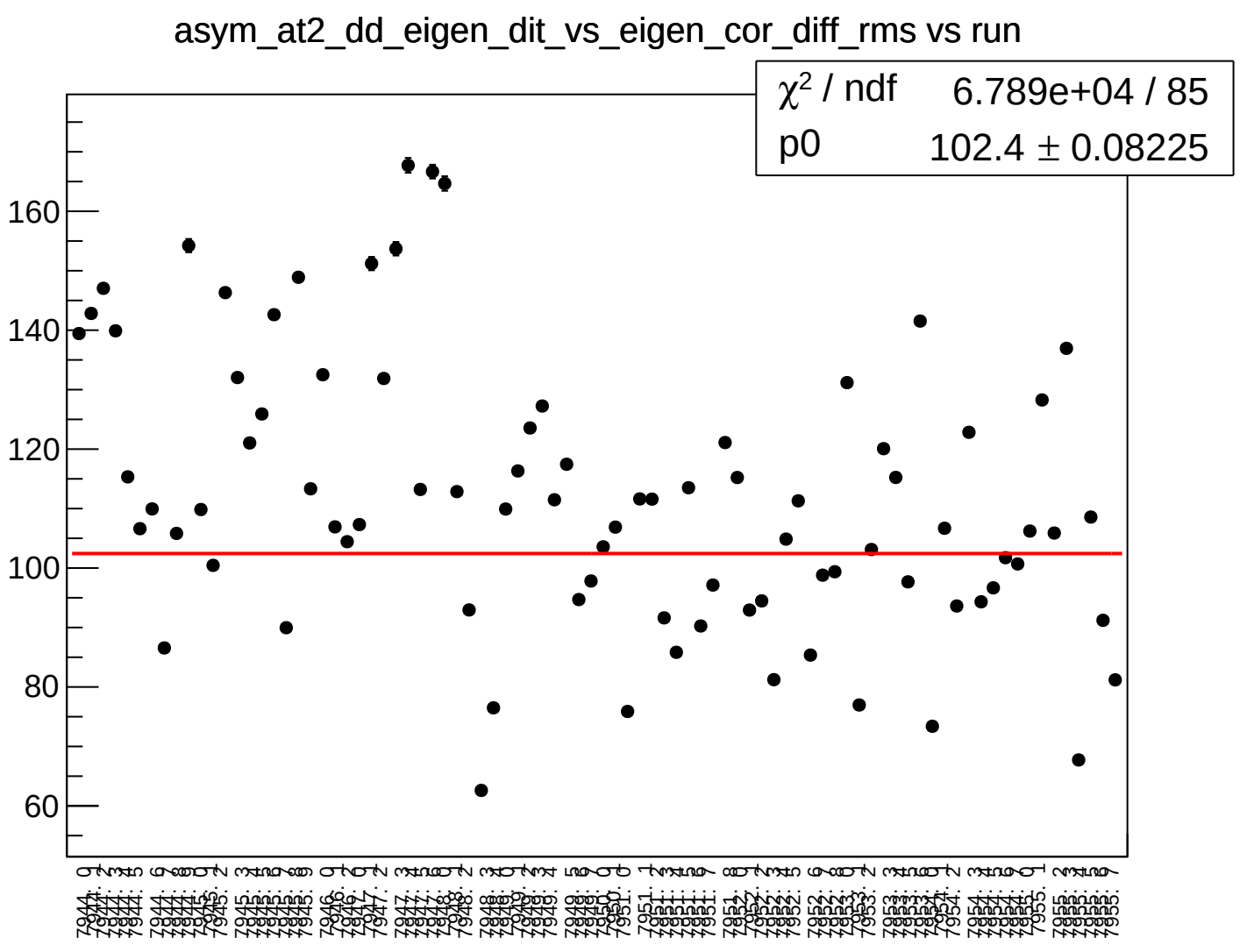


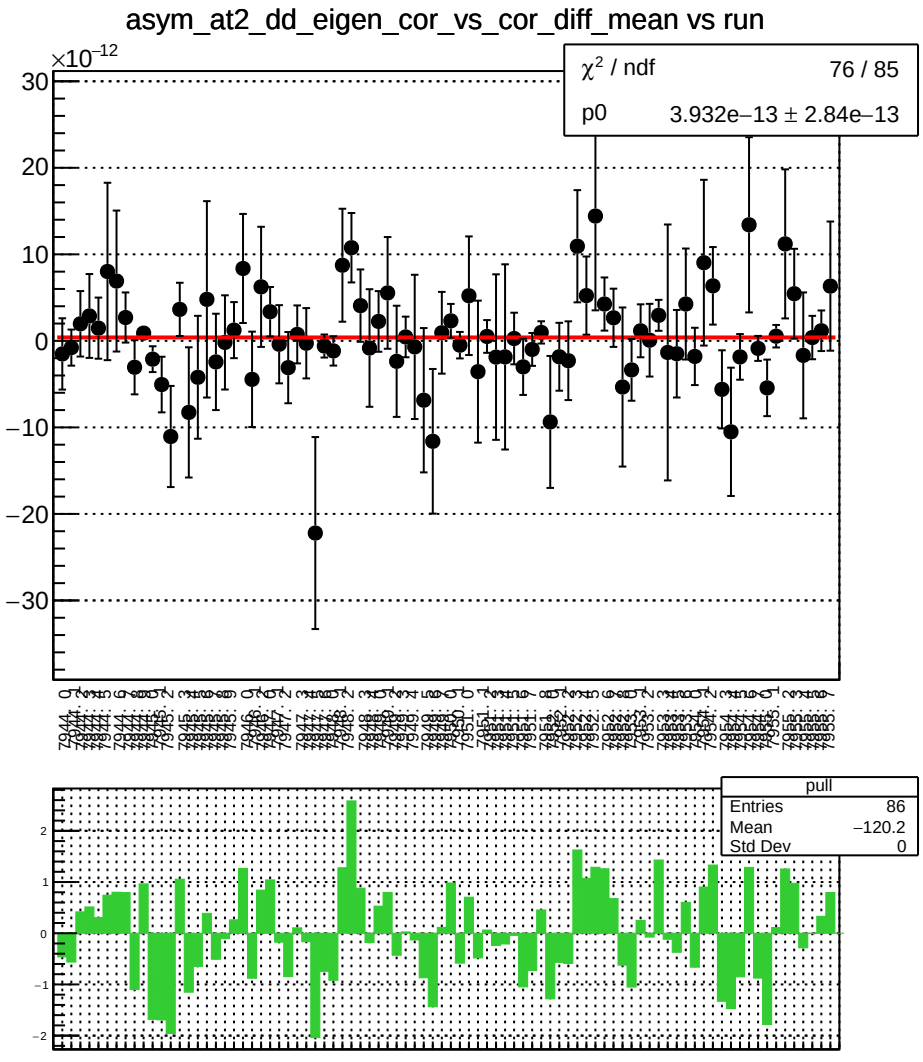


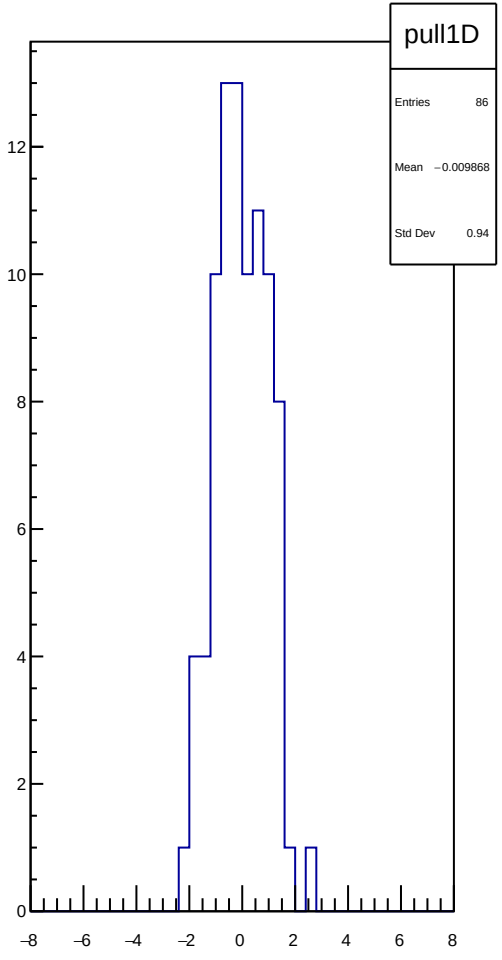

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.789e+04 / 85
p0 102.4 ± 0.08225
160
140
120
100
80
60

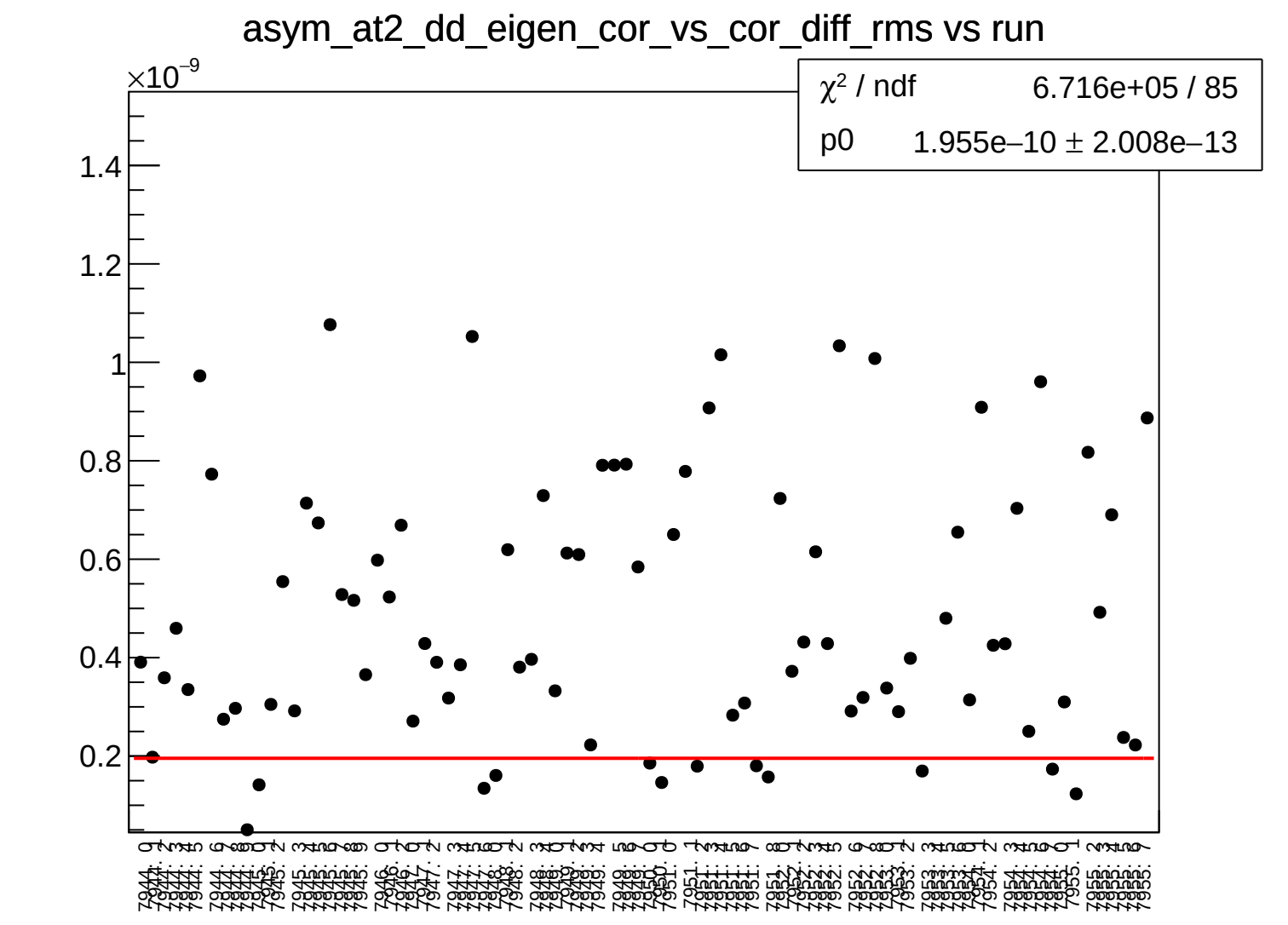

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.64 / 85
p0 −0.03296 ± 0.1163
pull
Entries 86
Mean −164.2
Std Dev 0

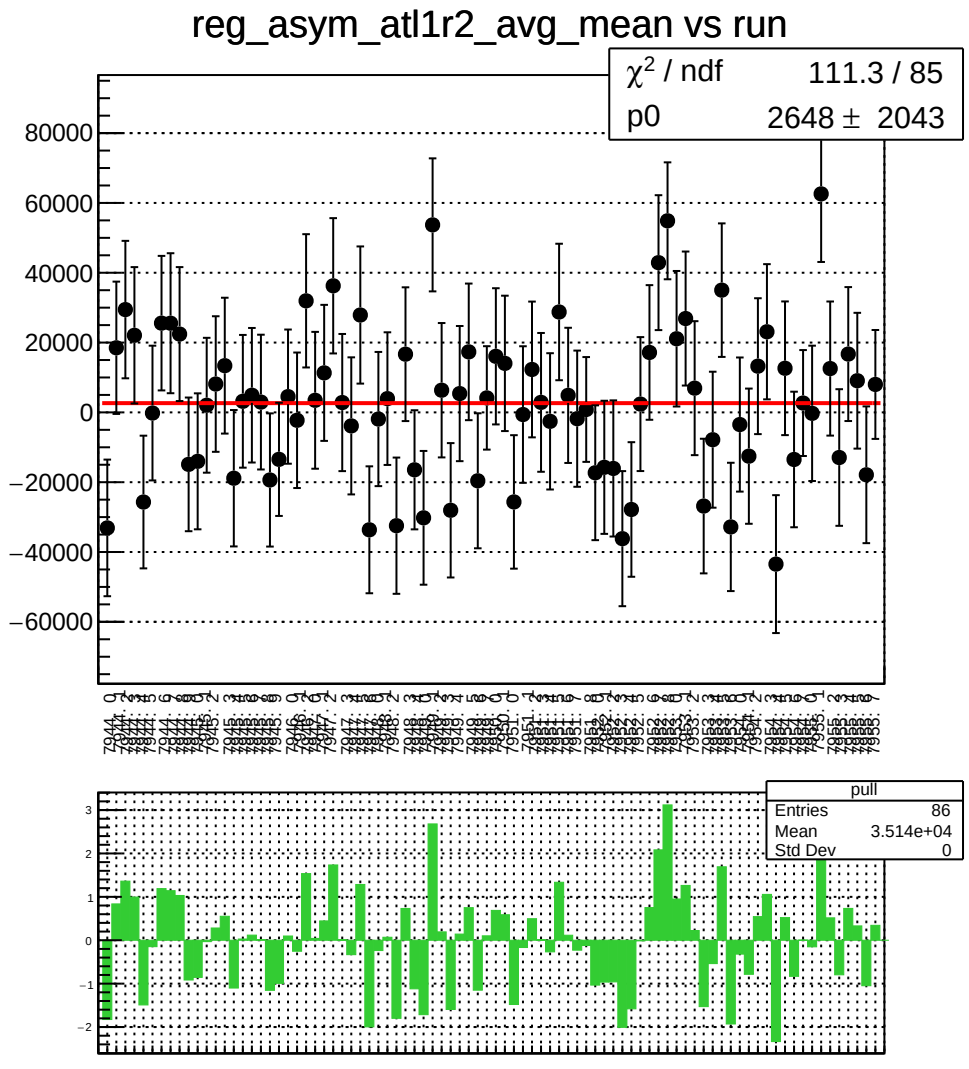

pull1D
Entries 86
Mean −0.006963
Std Dev 0.919

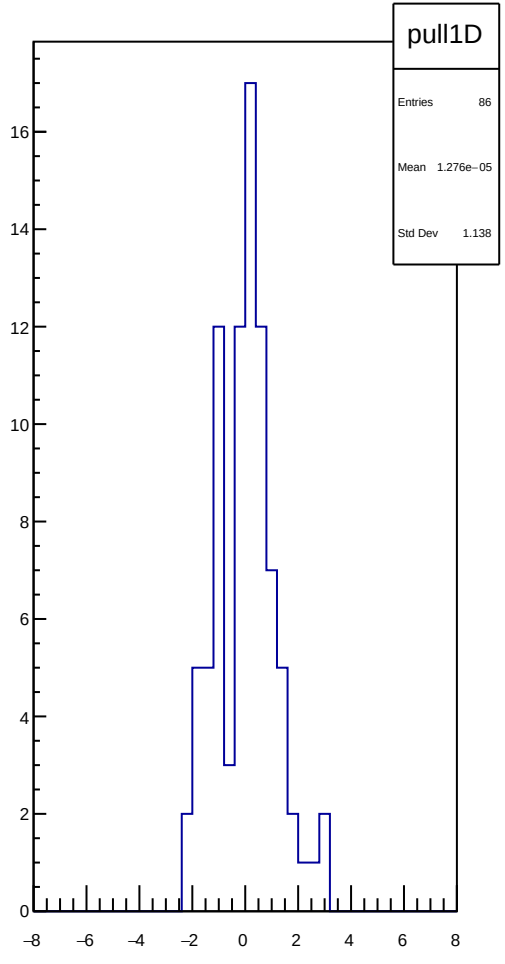

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.789e+04 / 85
p0 102.4 ± 0.08225
160
140
120
100
80
60

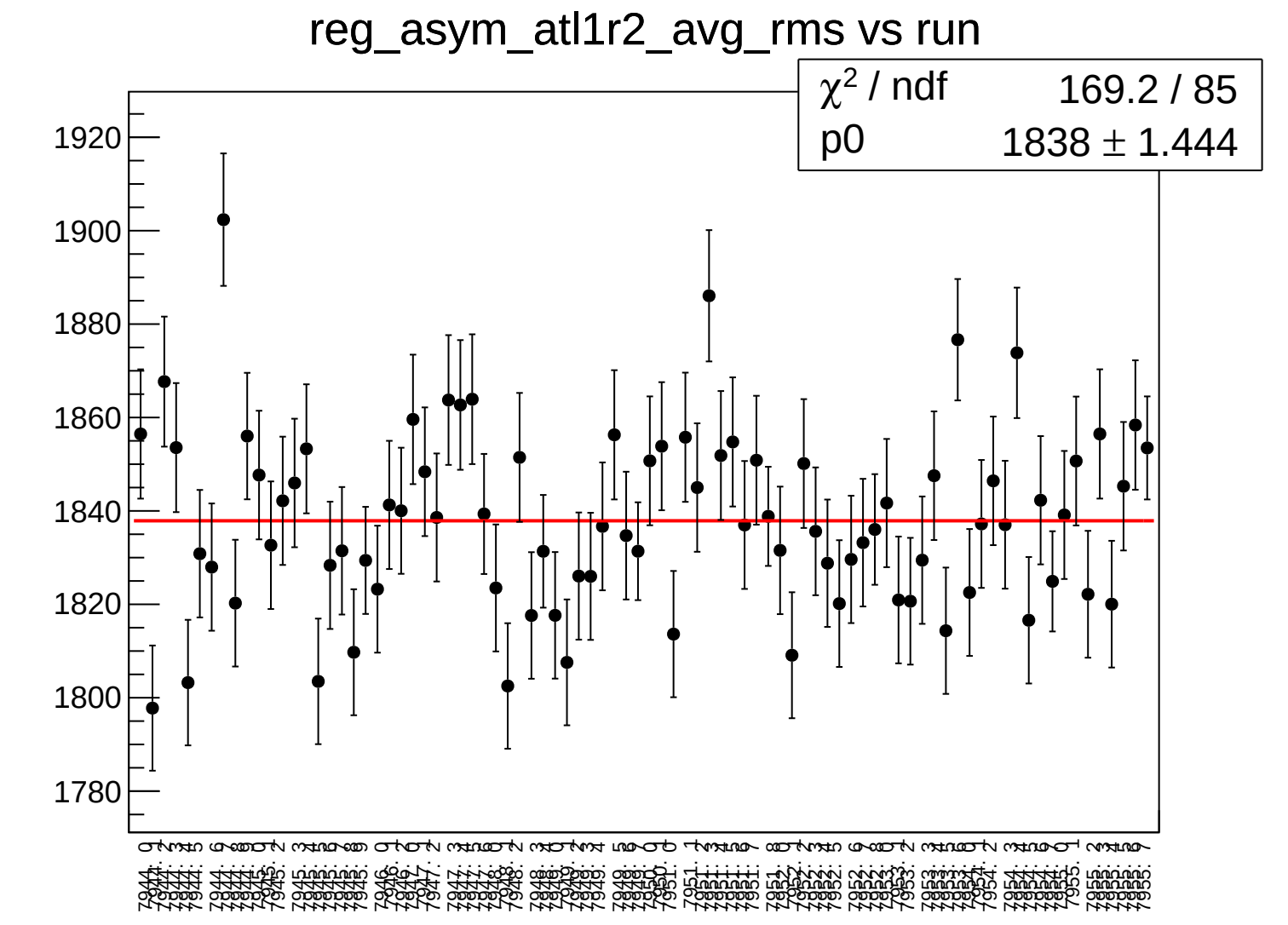

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76 / 85
p0 3.932e−13 ± 2.84e−13
pull
Entries 86
Mean −120.2
Std Dev 0

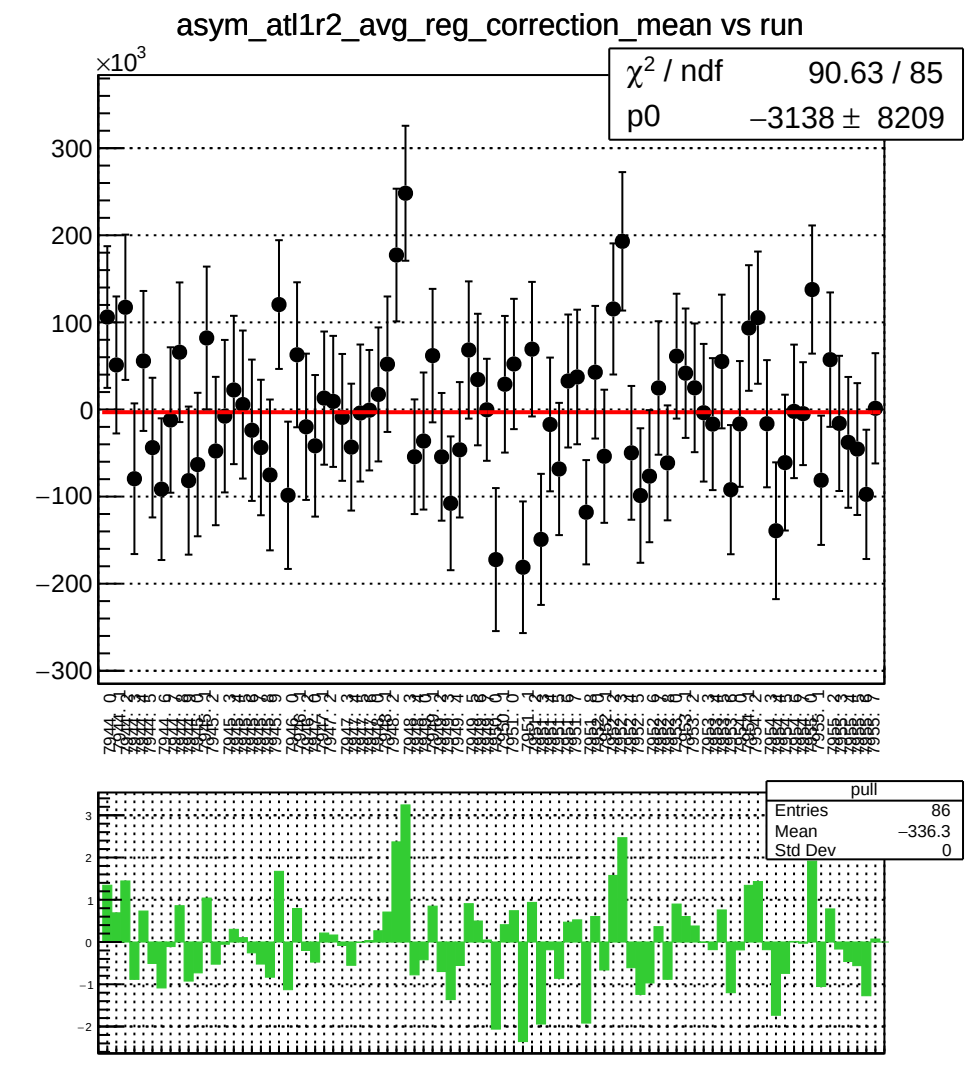

pull1D
Entries 86
Mean −0.009868
Std Dev 0.94

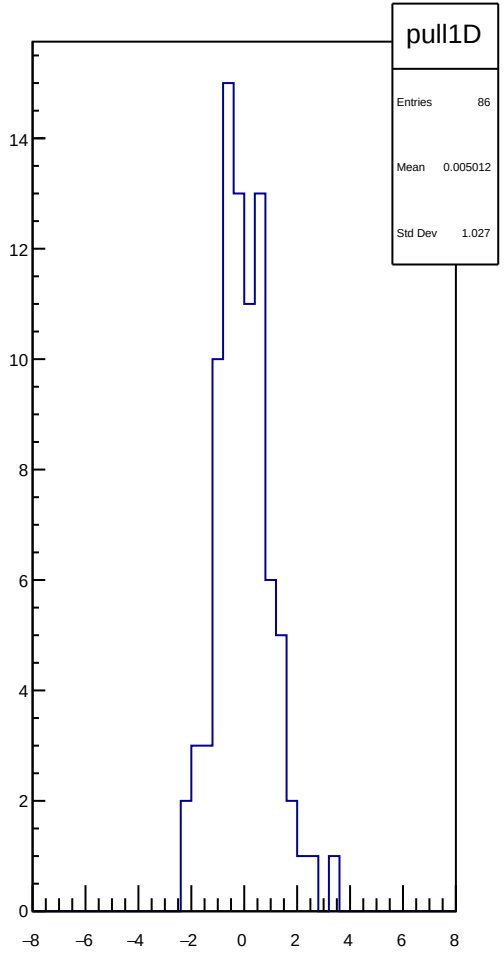

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.716e+05 / 85
p0 1.955e−10 ± 2.008e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

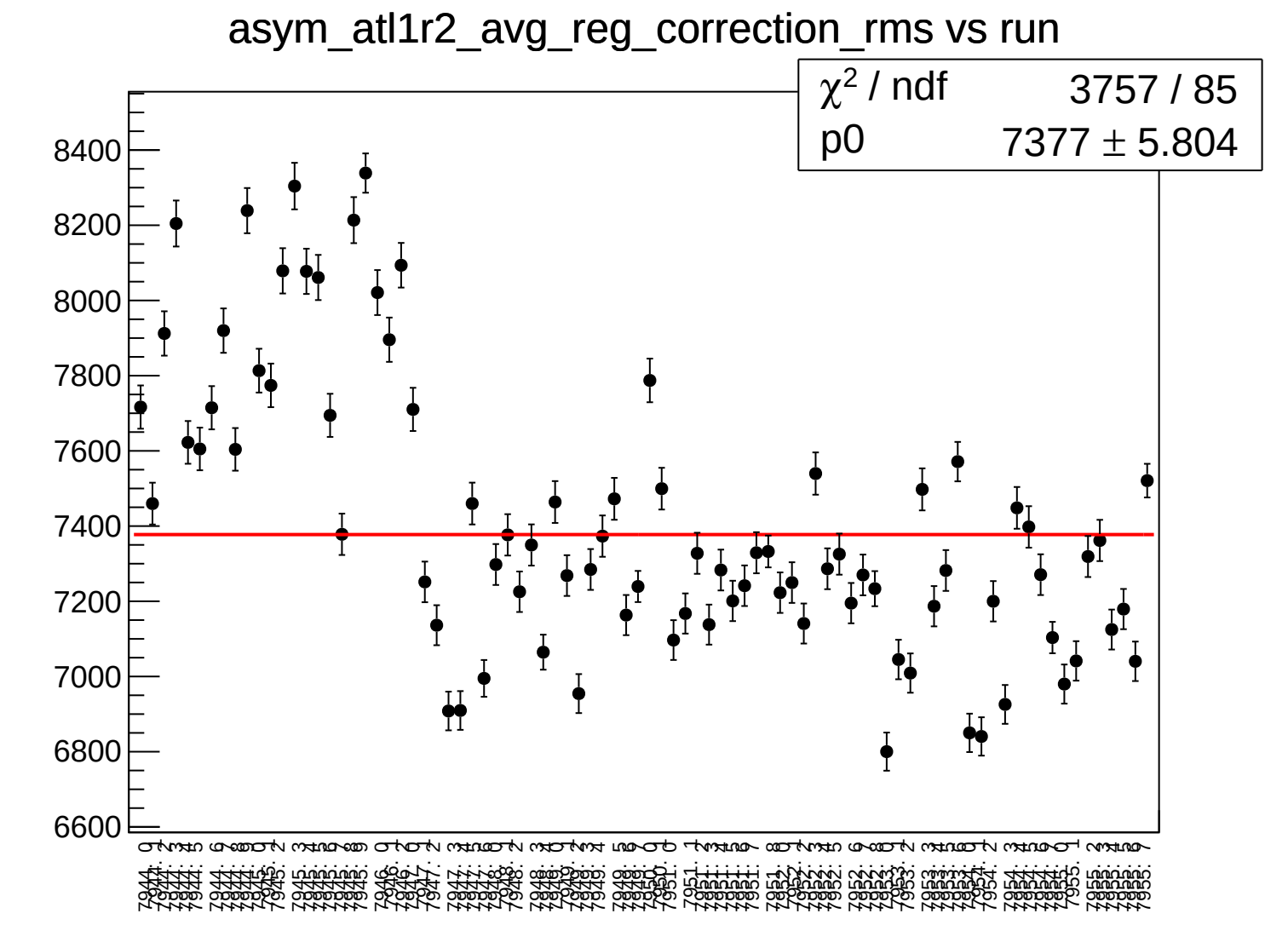

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 111.3 / 85
p0 2648 ± 2043
pull
Entries 86
Mean 3.514e+04
Std Dev 0

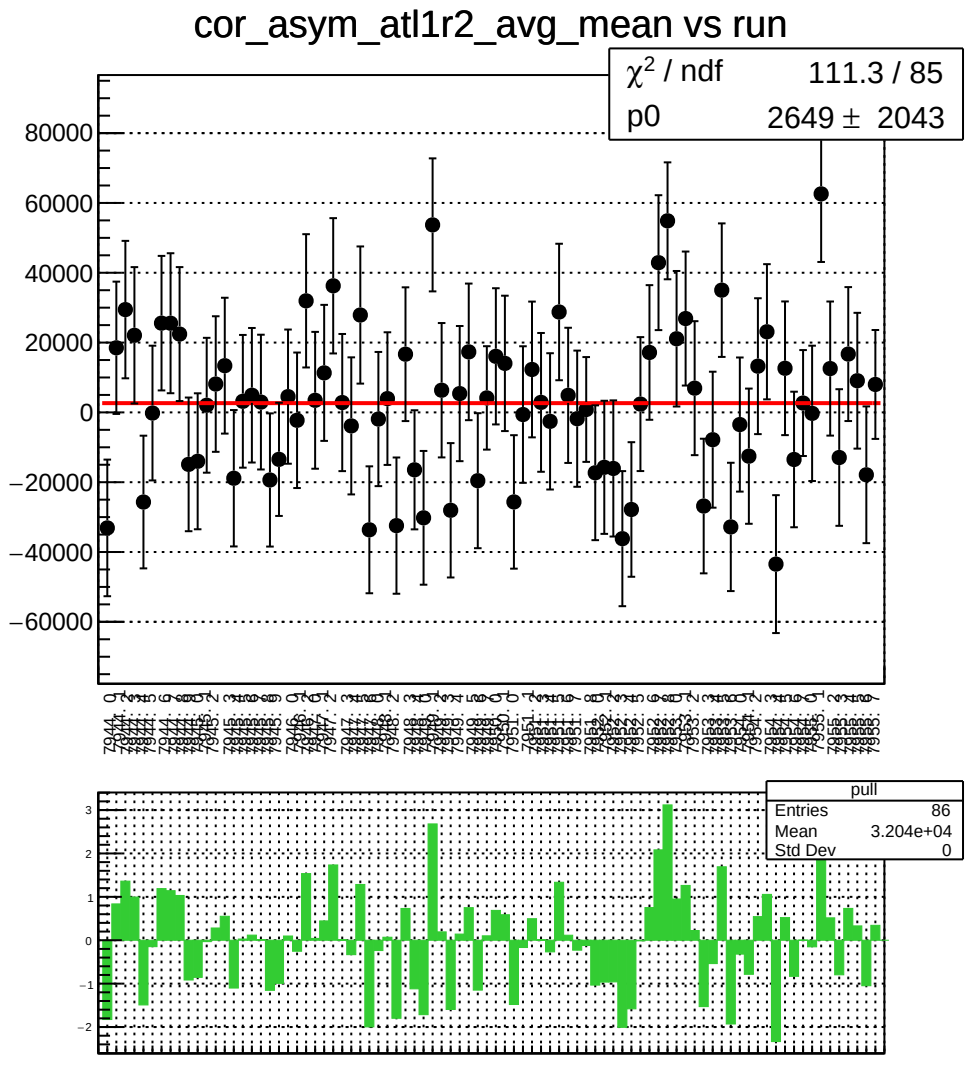

pull1D
Entries 86
Mean 1.276e−05
Std Dev 1.138

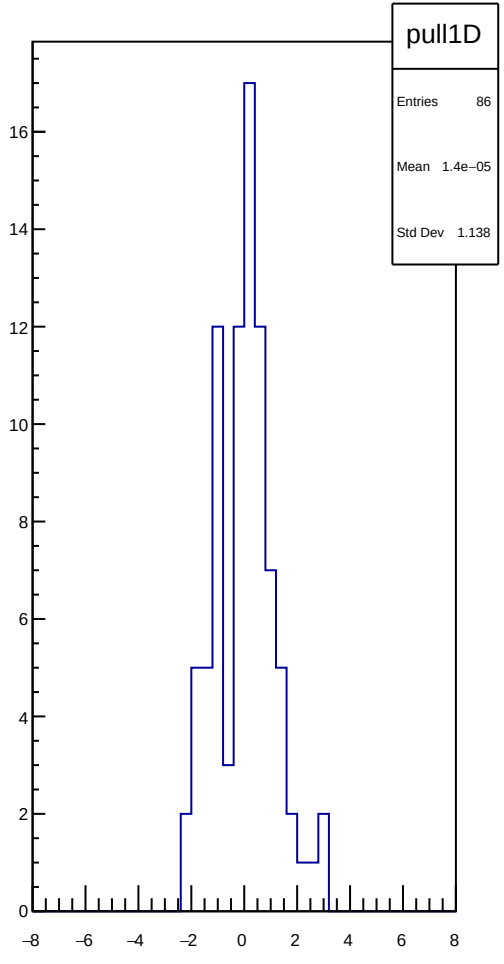

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 169.2 / 85
p0 1838 ± 1.444
1920
1900
1880
1860
1840
1820
1800
1780

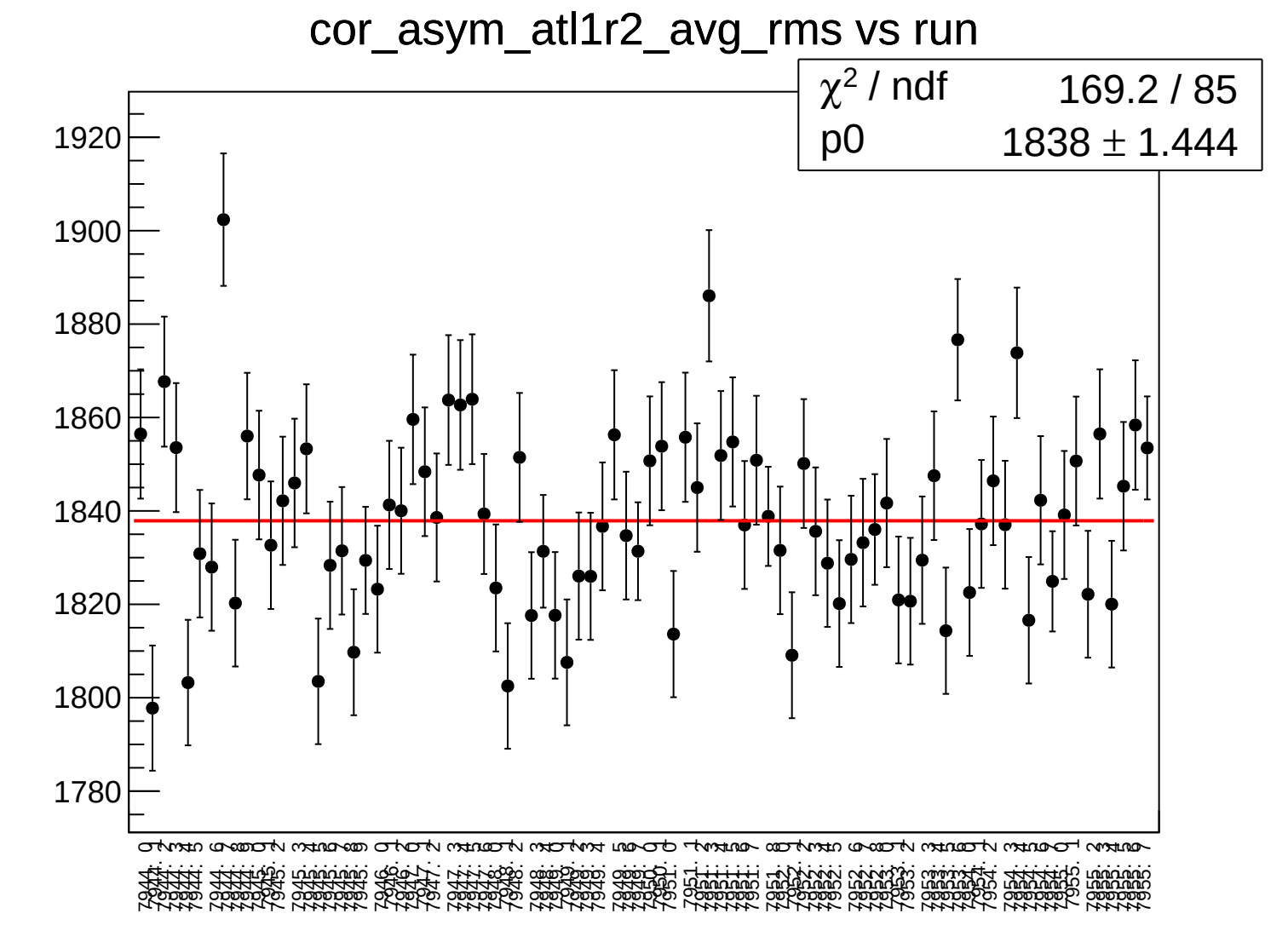

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.63 / 85
p0 −3138 ± 8209
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −336.3
Std Dev 0
3
2
1
0
−1
−2

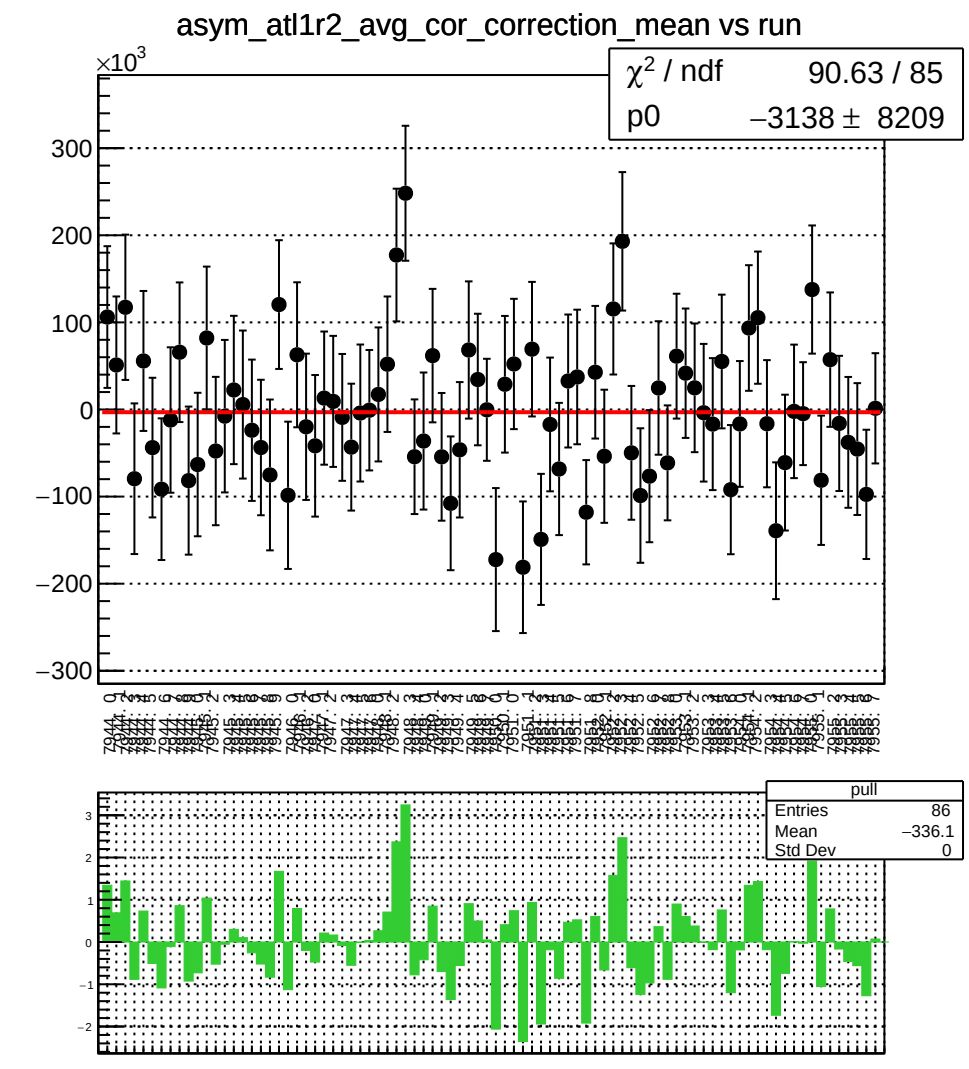

pull1D
Entries 86
Mean 0.005012
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

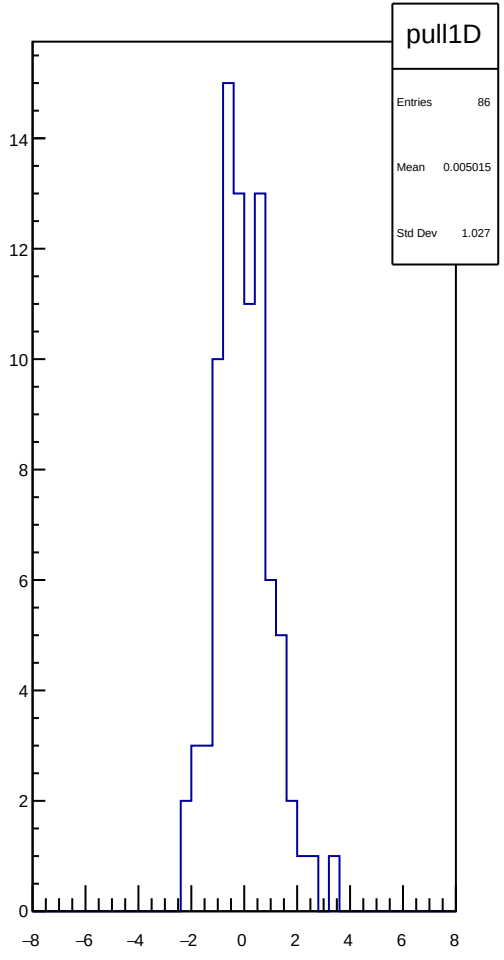

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 3757 / 85
p0 7377 ± 5.804
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

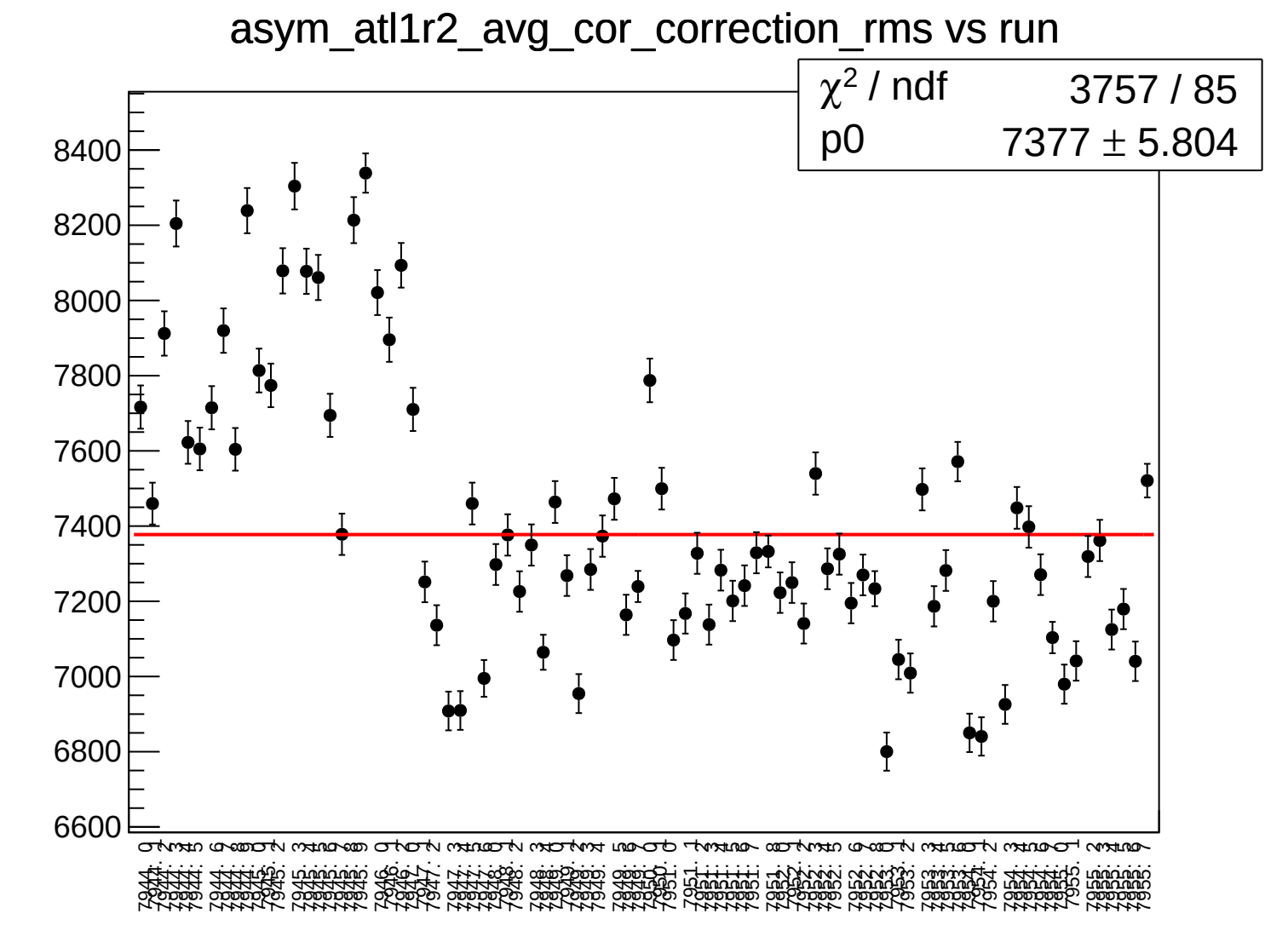

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 111.3 / 85
p0 2649 ± 2043
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 3.204e+04
Std Dev 0
3
2
1
0
−1
−2

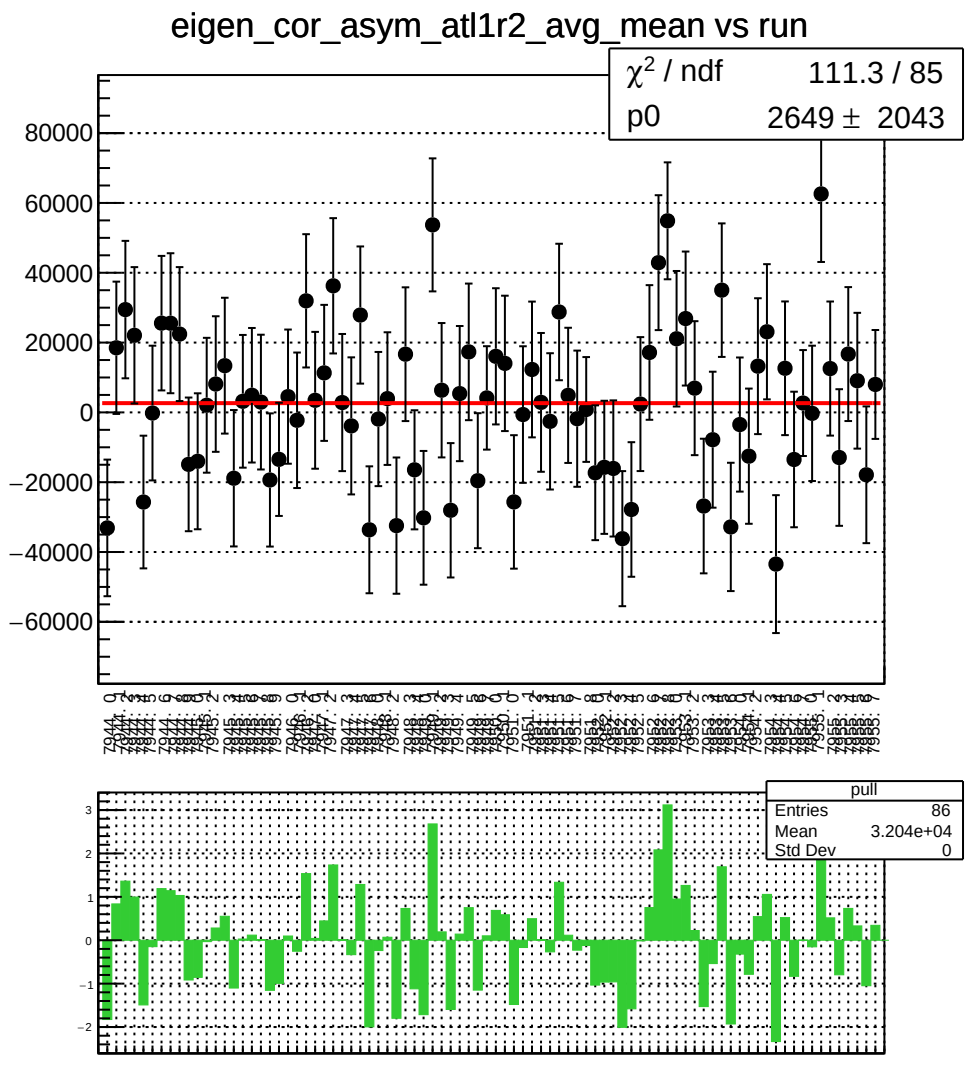

pull1D
Entries 86
Mean 1.4e−05
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

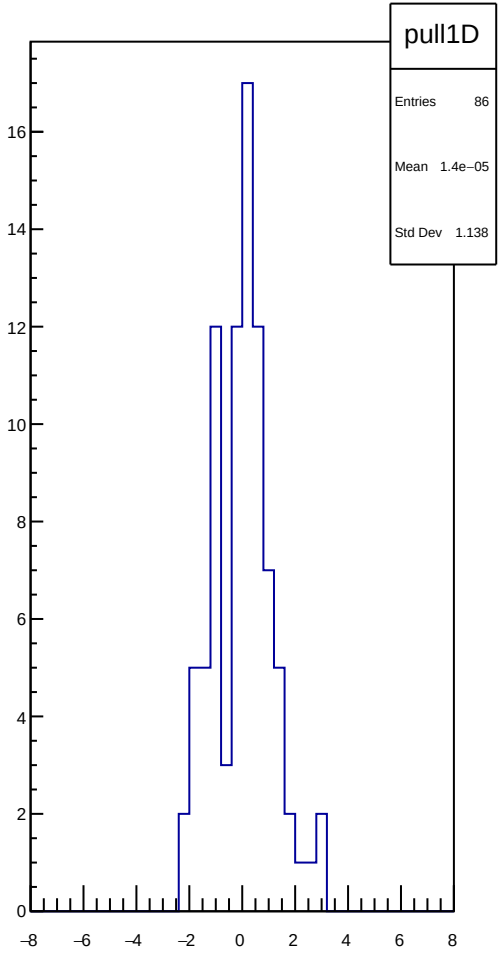

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 169.2 / 85
p0 1838 ± 1.444
1920
1900
1880
1860
1840
1820
1800
1780

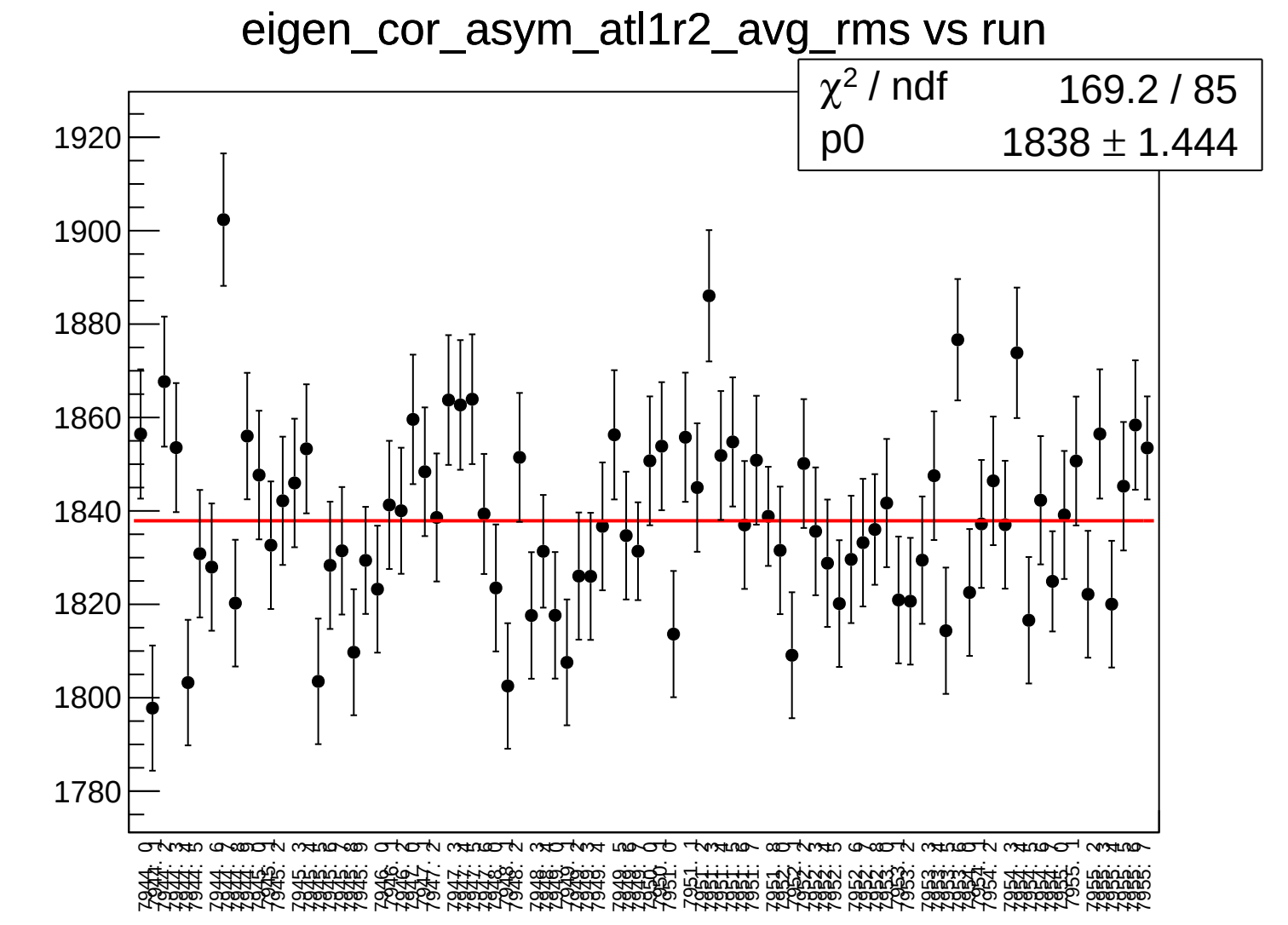

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.63 / 85
p0 −3138 ± 8209
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −336.1
Std Dev 0
3
2
1
0
−1
−2

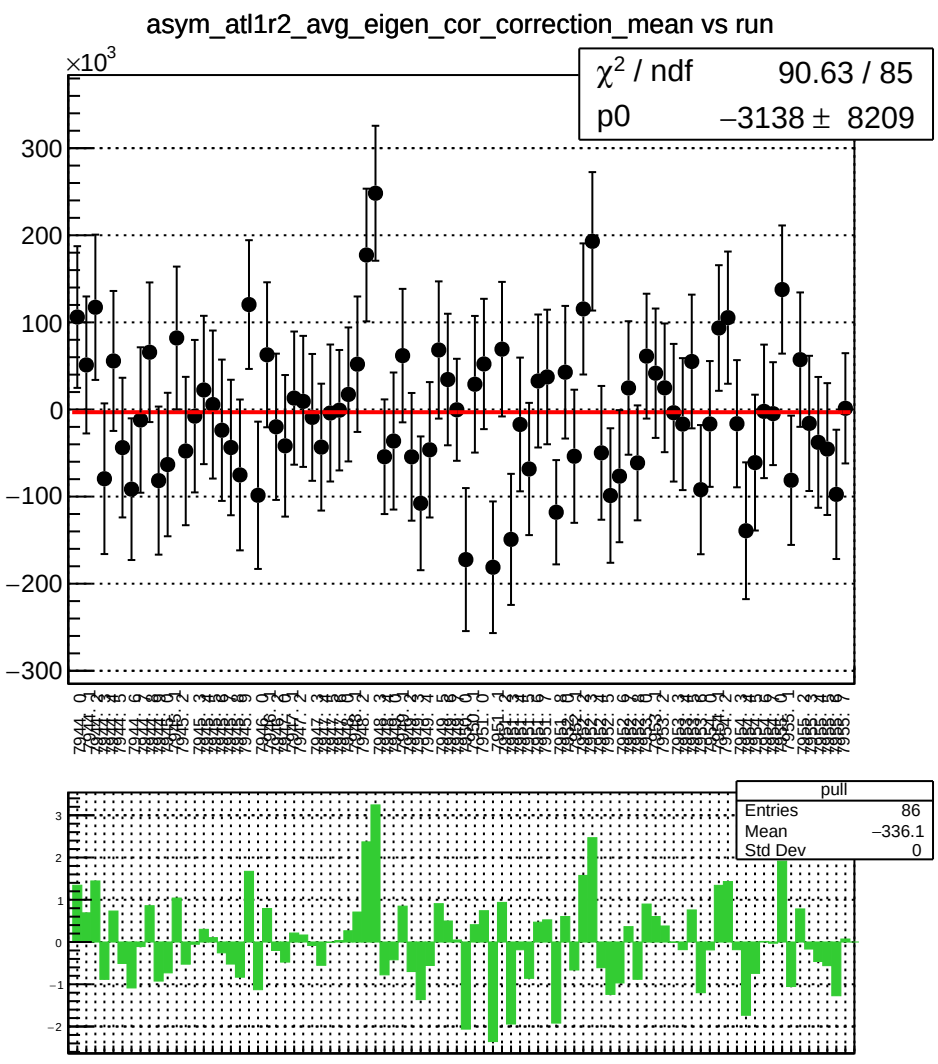

pull1D
Entries 86
Mean 0.005015
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

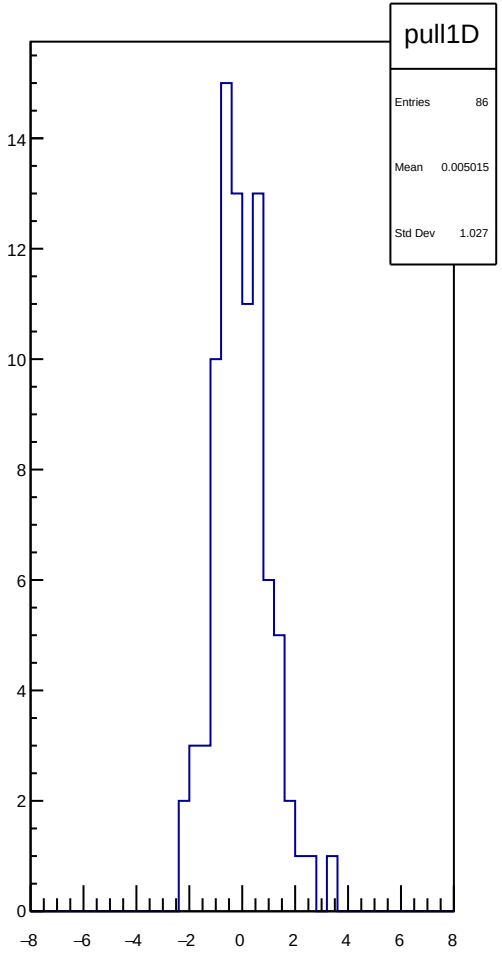

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 3757 / 85
p0 7377 ± 5.804
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

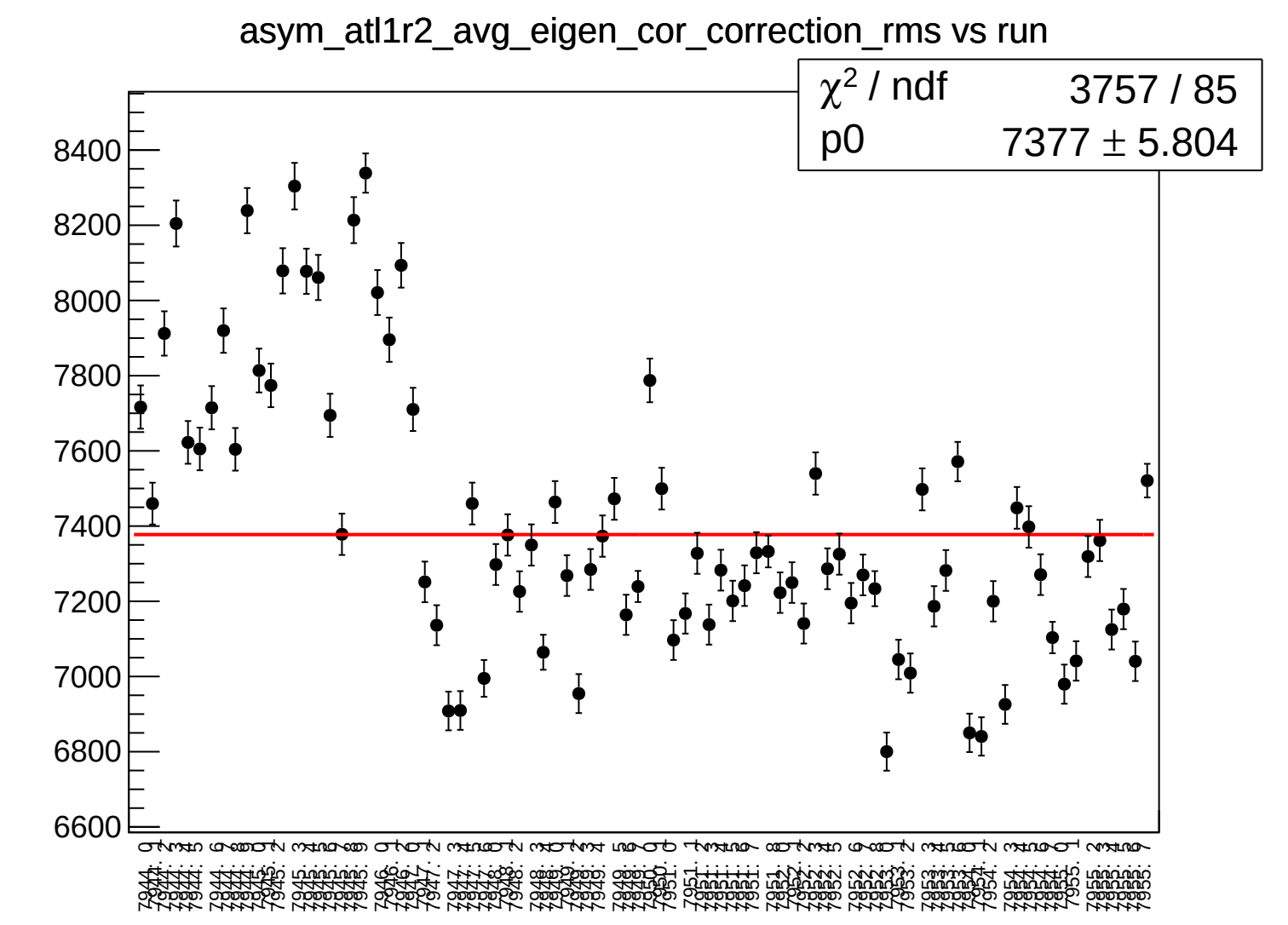

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 111.3 / 85
p0 2649 ± 2043
pull
Entries 86
Mean 3.204e+04
Std Dev 0

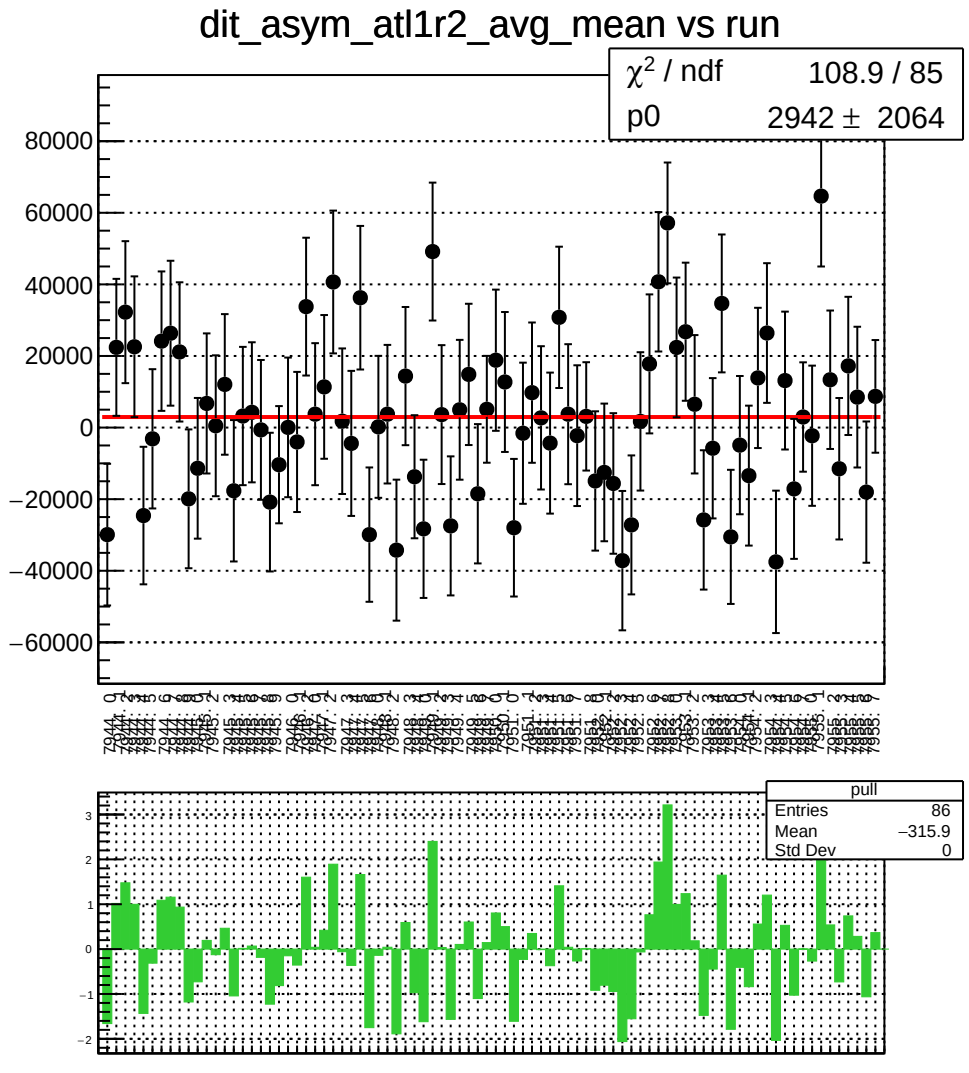

pull1D
Entries 86
Mean 1.4e−05
Std Dev 1.138

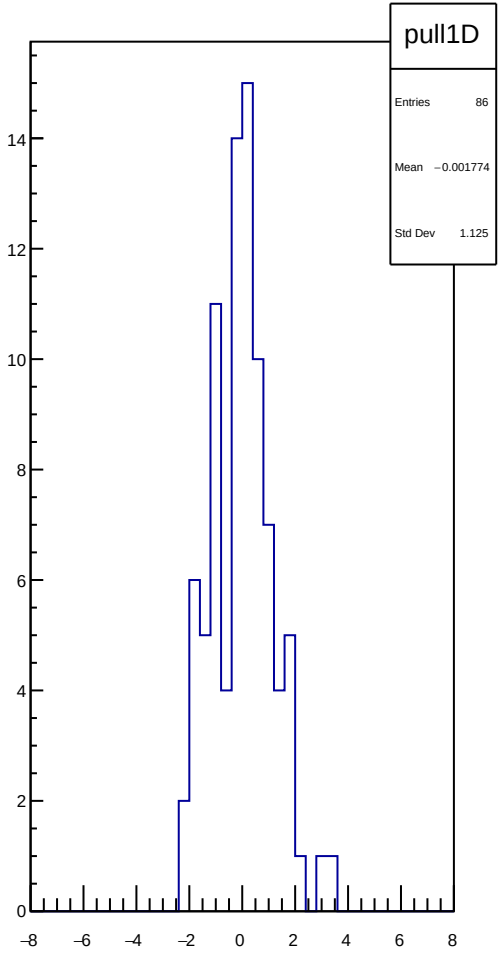

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 169.2 / 85
p0 1838 ± 1.444
1920
1900
1880
1860
1840
1820
1800
1780

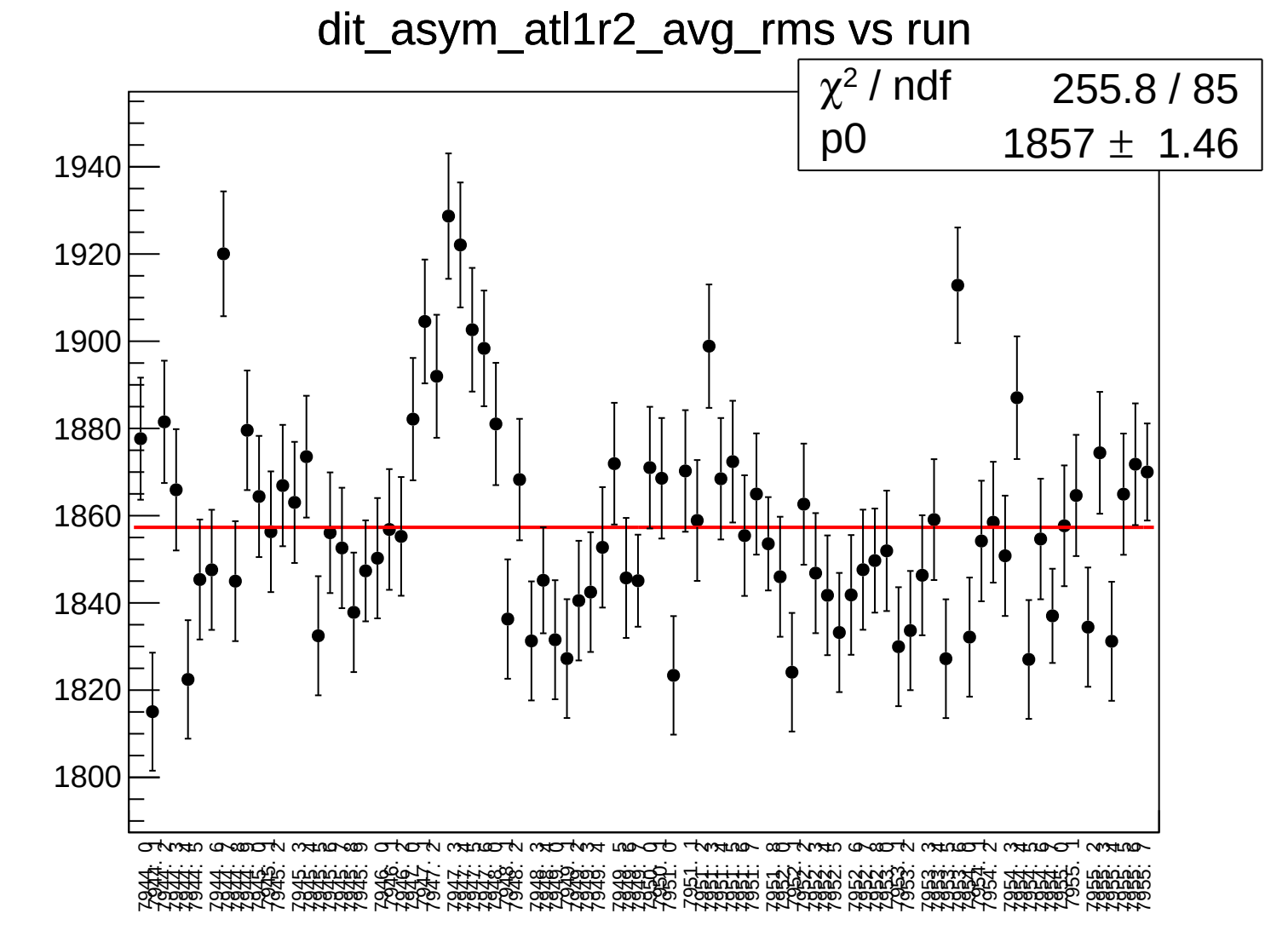

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.63 / 85
p0 −3138 ± 8209
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −336.1
Std Dev 0
3
2
1
0
−1
−2

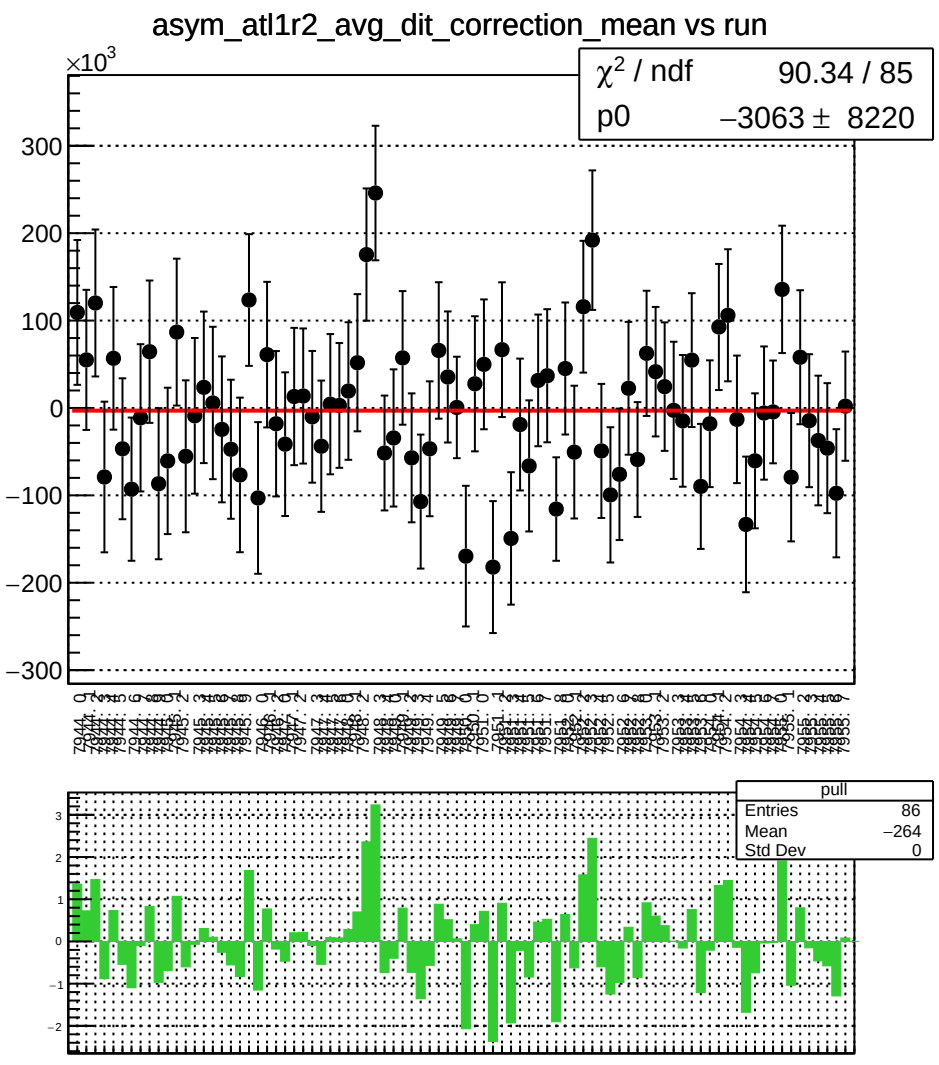

pull1D
Entries 86
Mean 0.005015
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

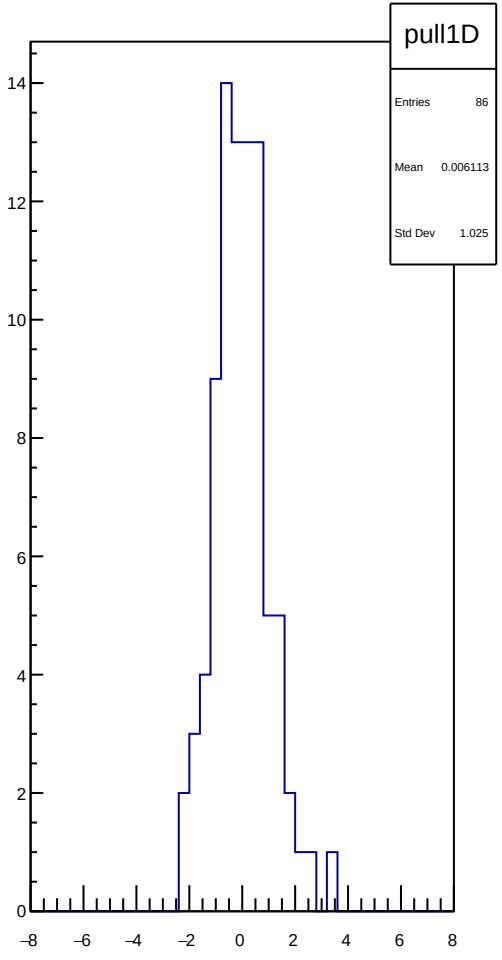

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3757 / 85
p0 7377 ± 5.804
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

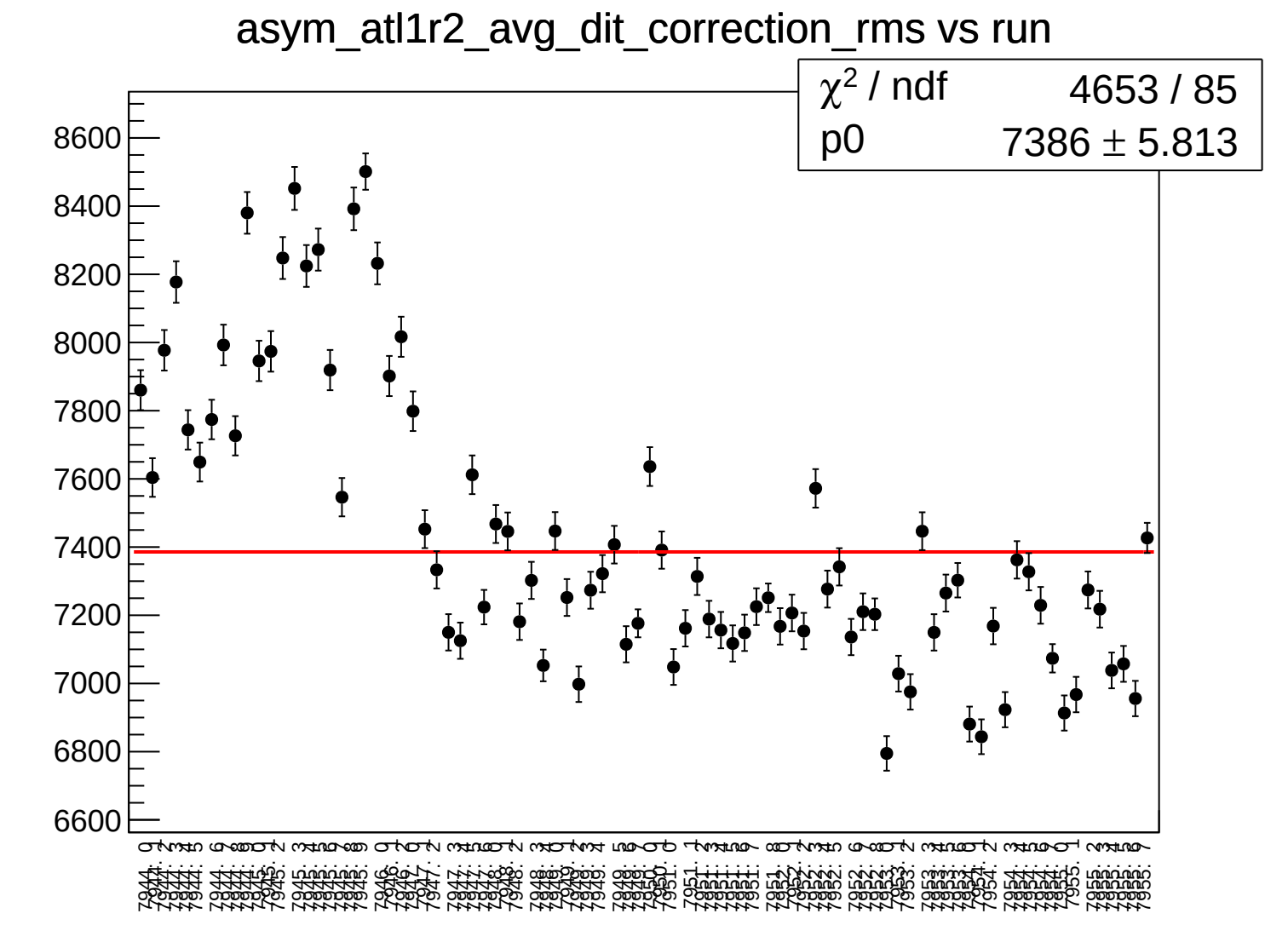

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 108.9 / 85
p0 2942 ± 2064
pull
Entries 86
Mean −315.9
Std Dev 0

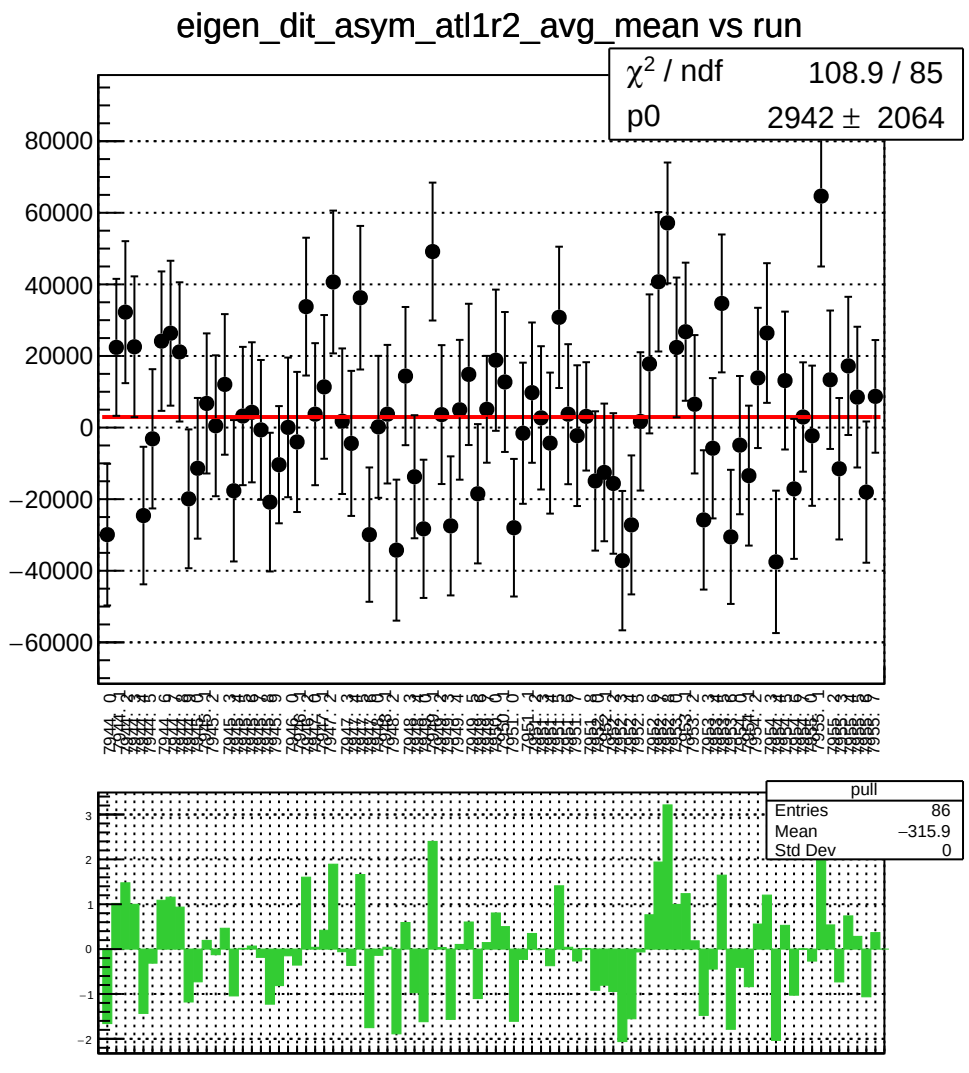

pull1D
Entries 86
Mean −0.001774
Std Dev 1.125

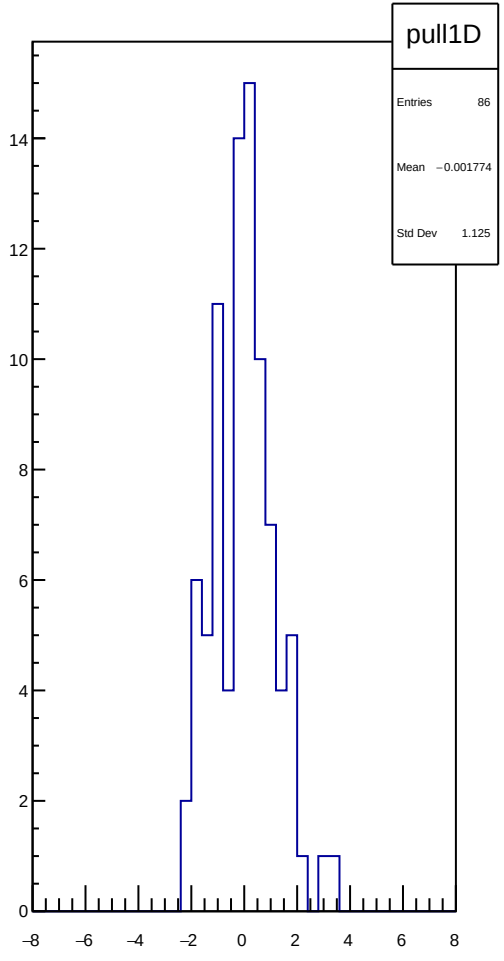

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 255.8 / 85
p0 1857 ± 1.46
1940
1920
1900
1880
1860
1840
1820
1800

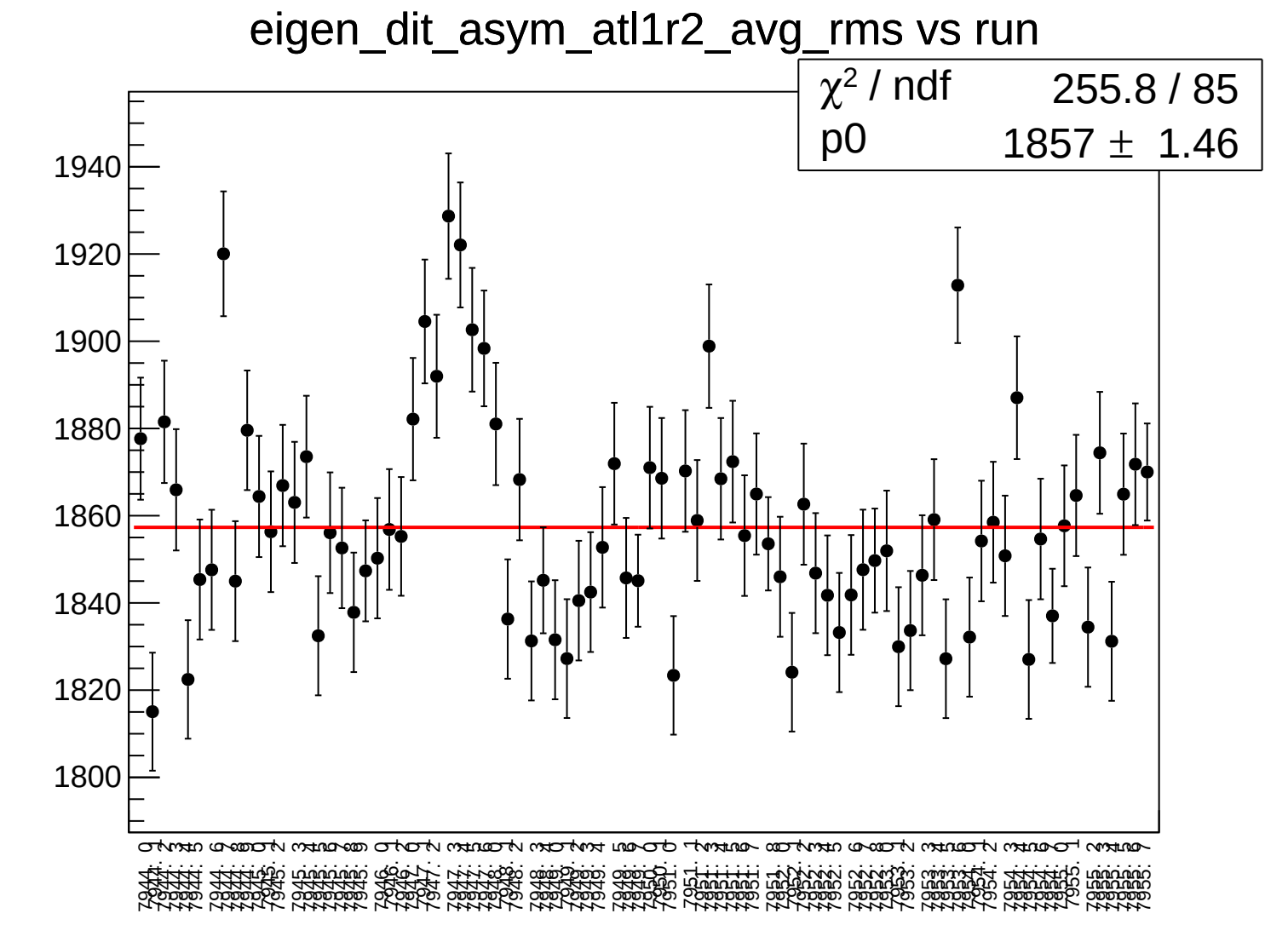

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 90.34 / 85
p0 −3063 ± 8220
×10³
pull
Entries 86
Mean −264
Std Dev 0

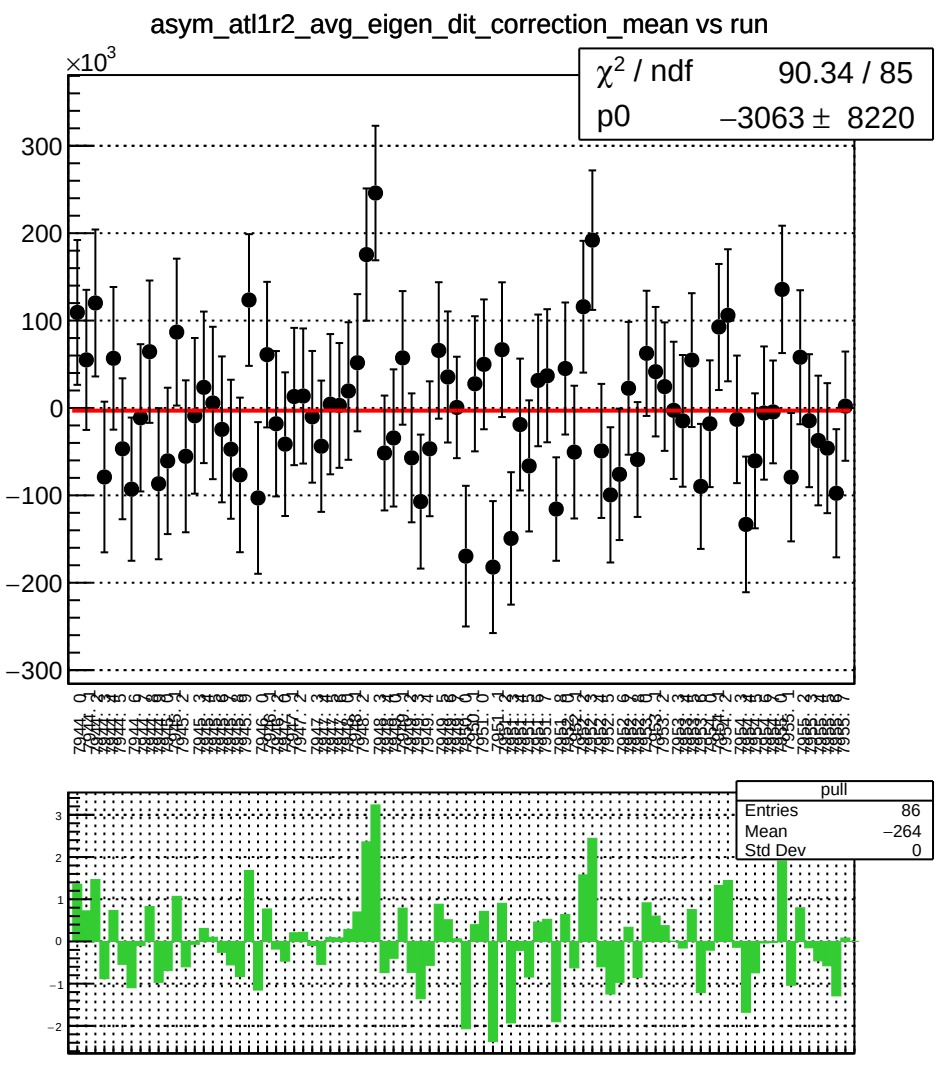

pull1D
Entries 86
Mean 0.006113
Std Dev 1.025

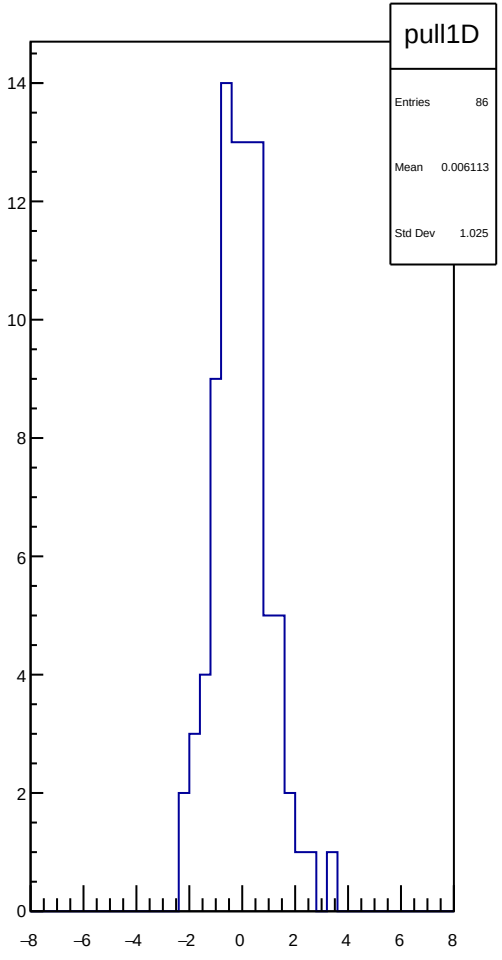

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 4653 / 85
p0 7386 ± 5.813
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

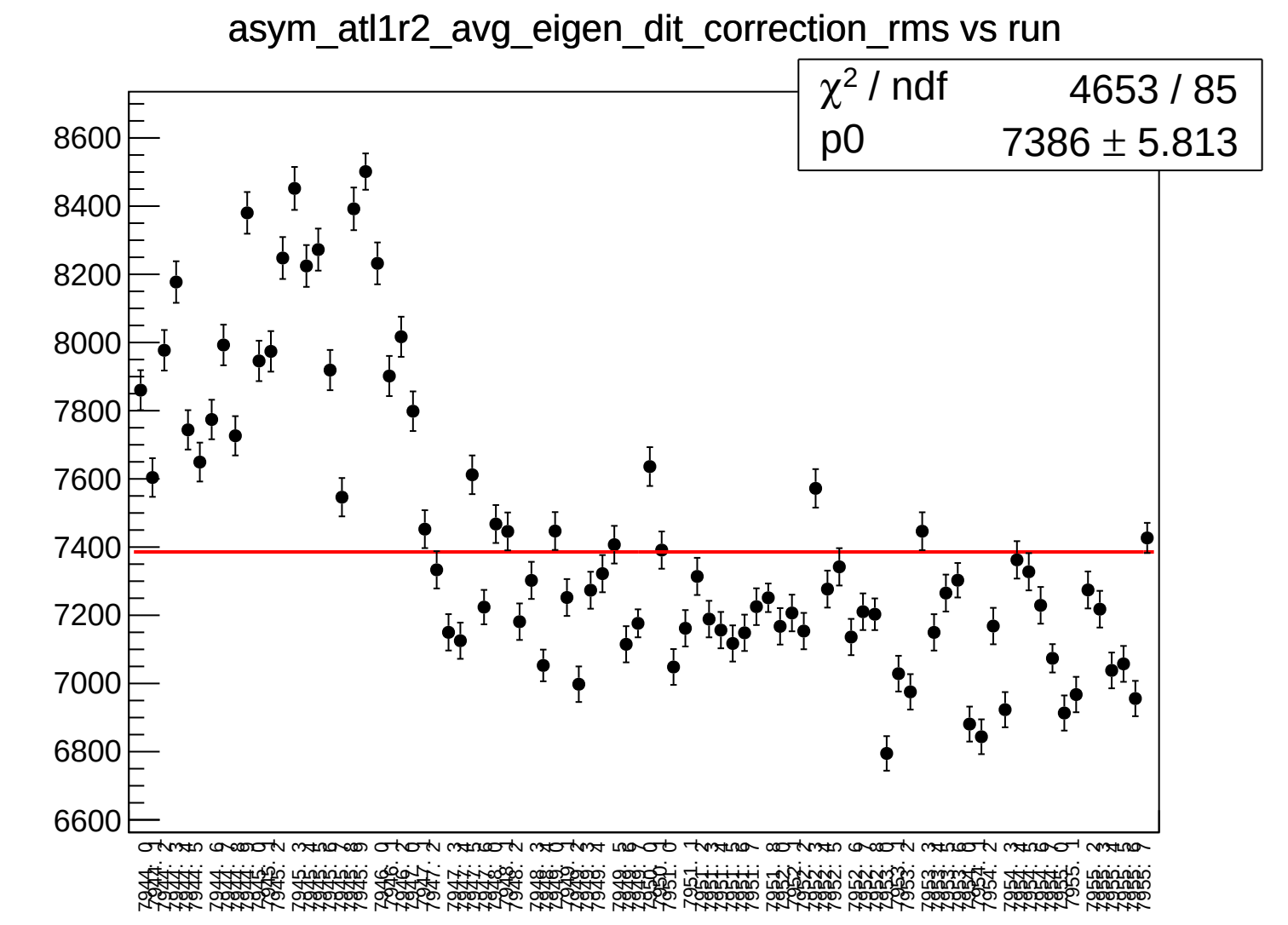

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 108.9 / 85
p0 2942 ± 2064
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −315.9
Std Dev 0
3
2
1
0
−1
−2

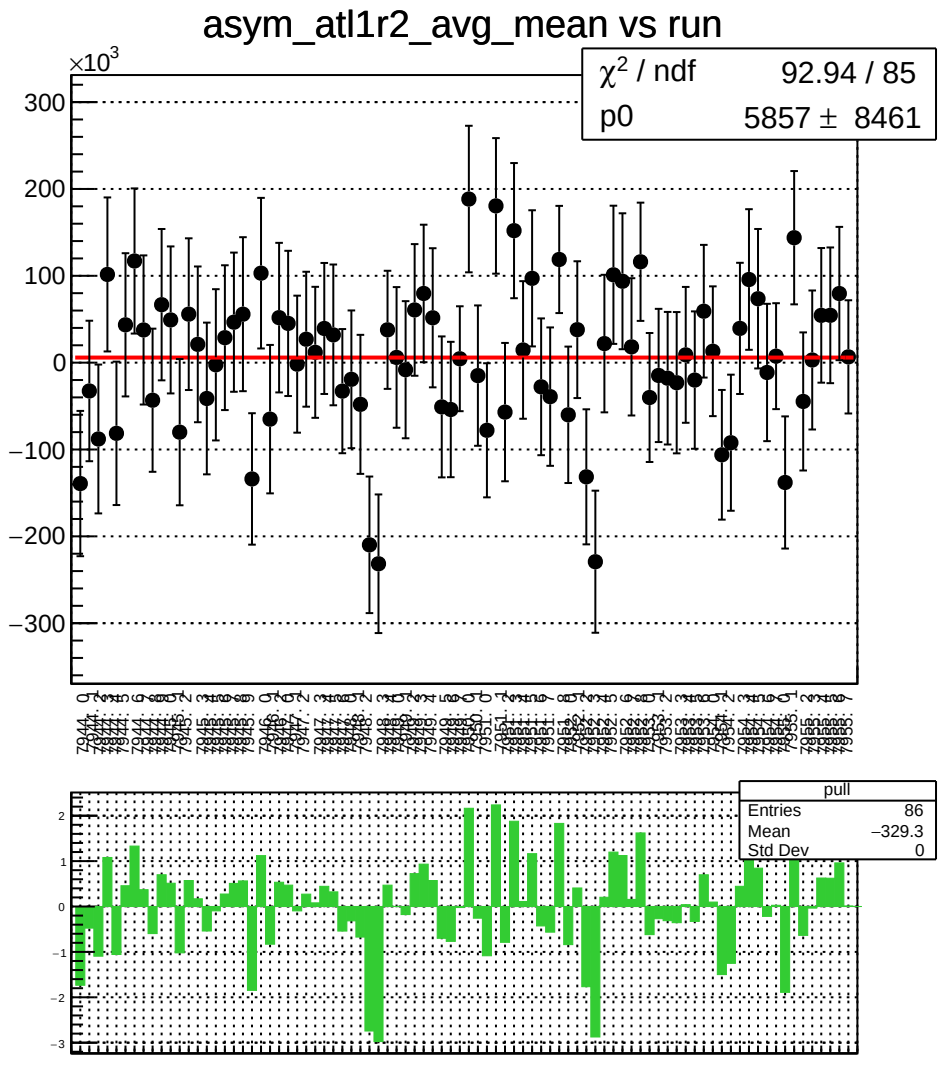

pull1D
Entries 86
Mean −0.001774
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

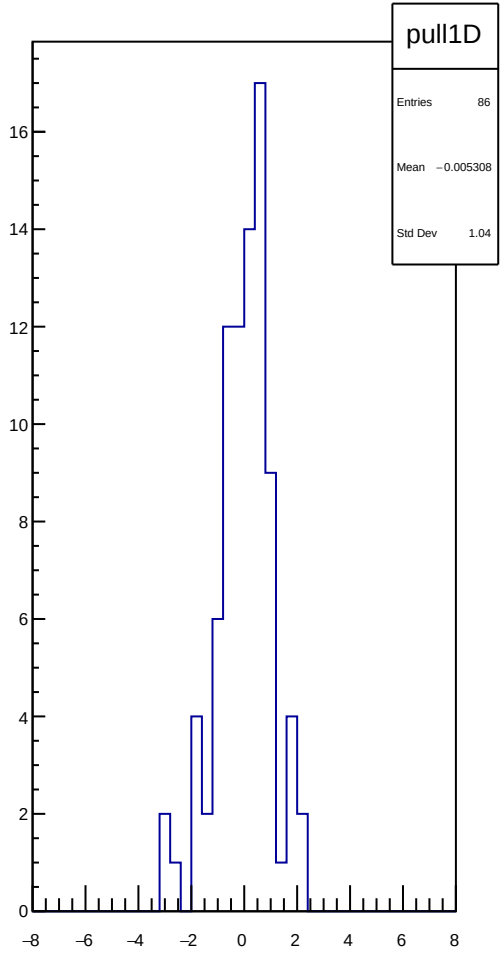

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 255.8 / 85
p0 1857 ± 1.46
1940
1920
1900
1880
1860
1840
1820
1800

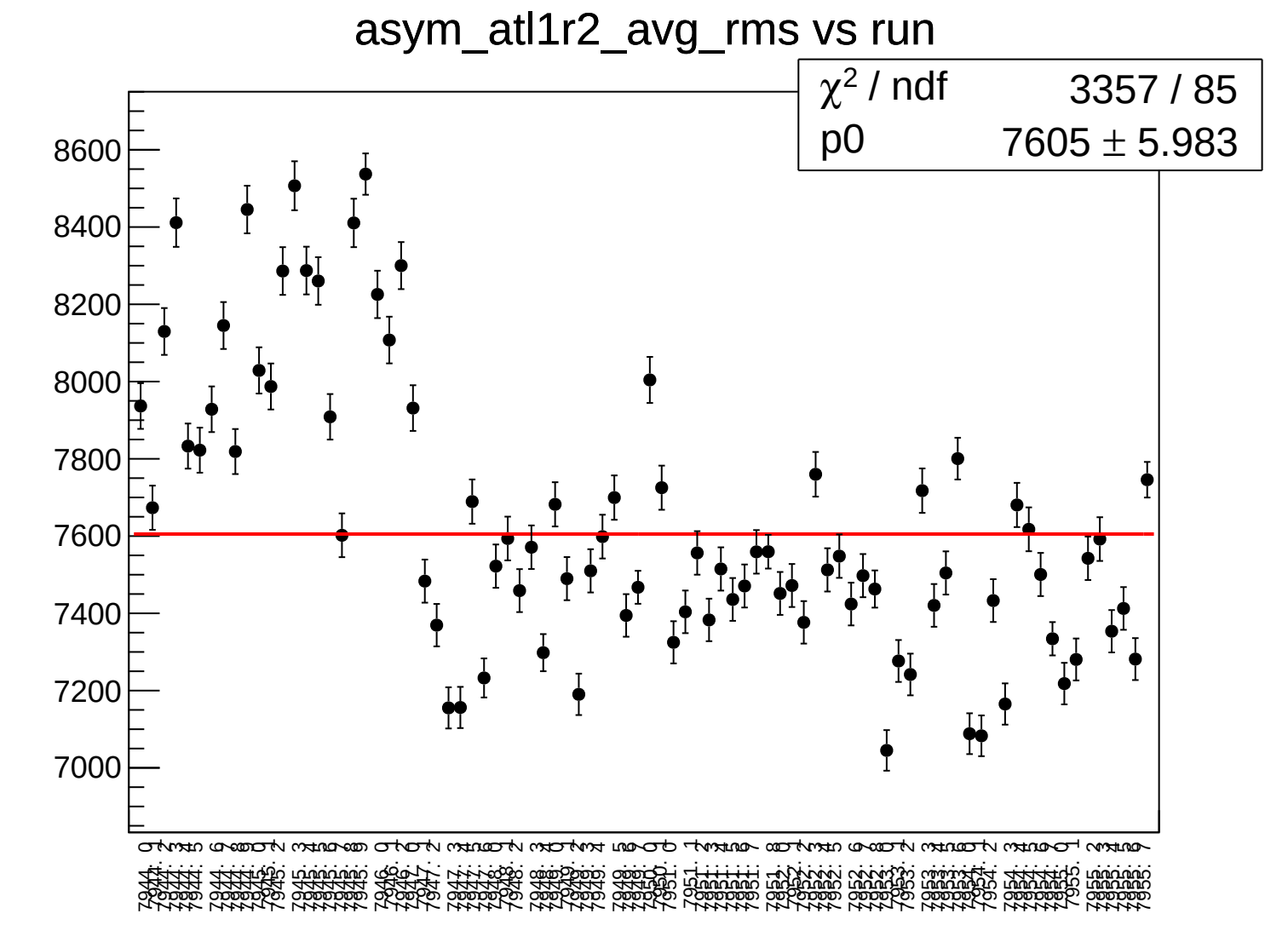

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.34 / 85
p0 −3063 ± 8220
pull
Entries 86
Mean −264
Std Dev 0

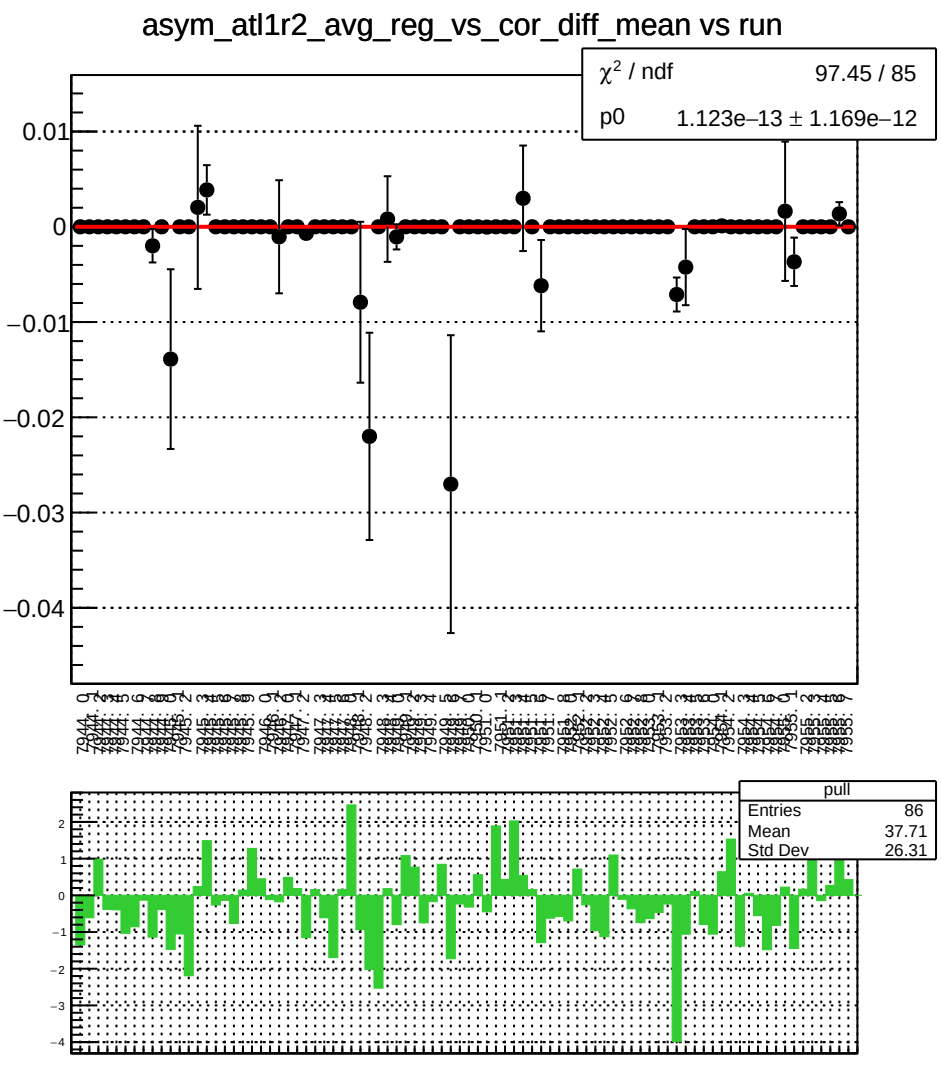

pull1D
Entries 86
Mean 0.006113
Std Dev 1.025

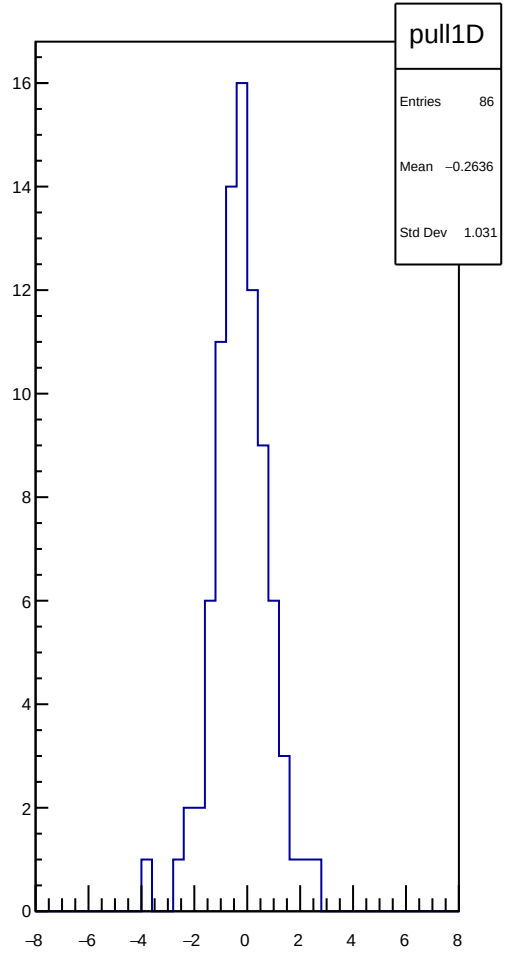

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4653 / 85
p0 7386 ± 5.813
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

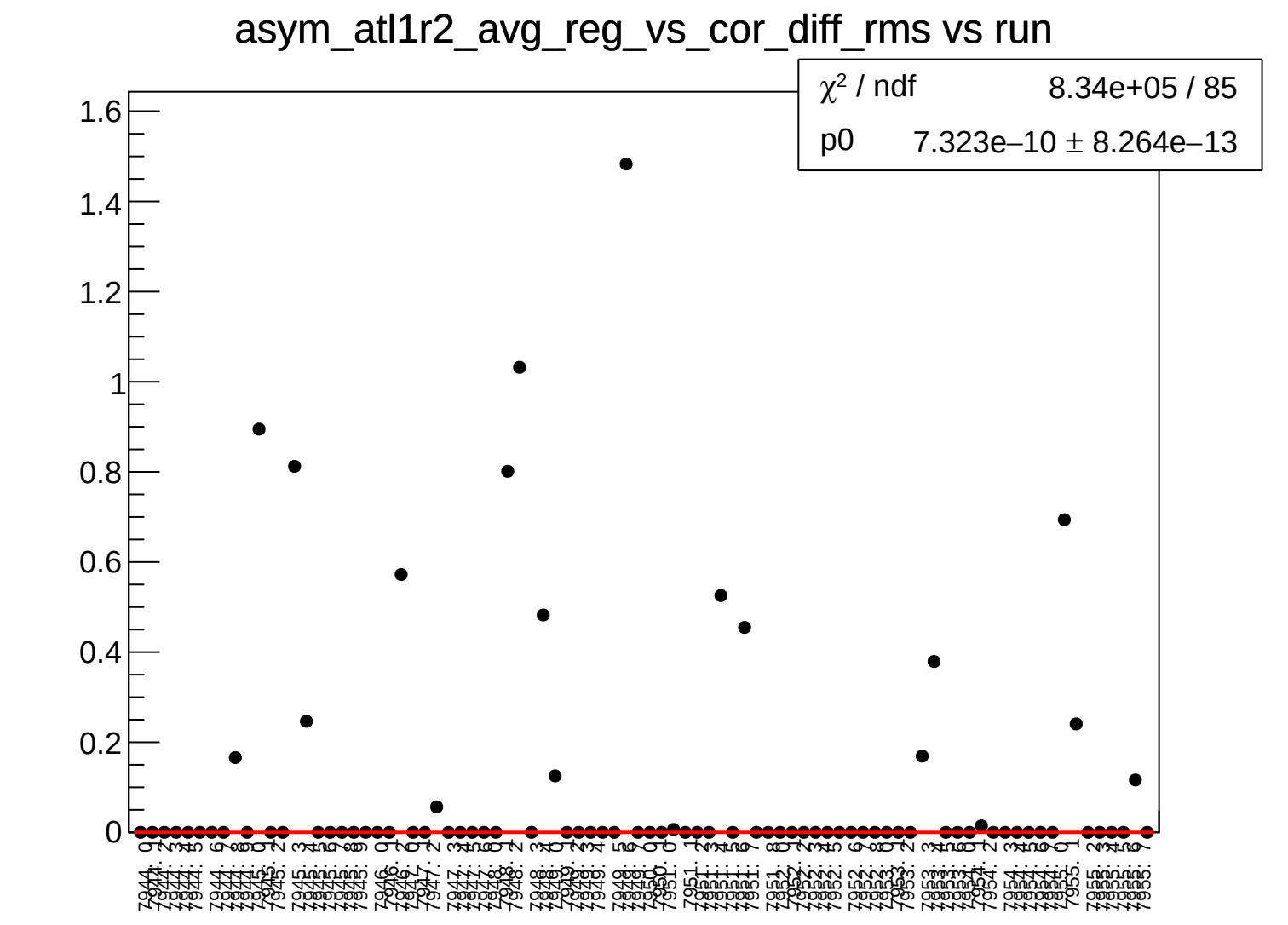

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 92.94 / 85
p0 5857 ± 8461
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −329.3
Std Dev 0
2
1
0
−1
−2
−3

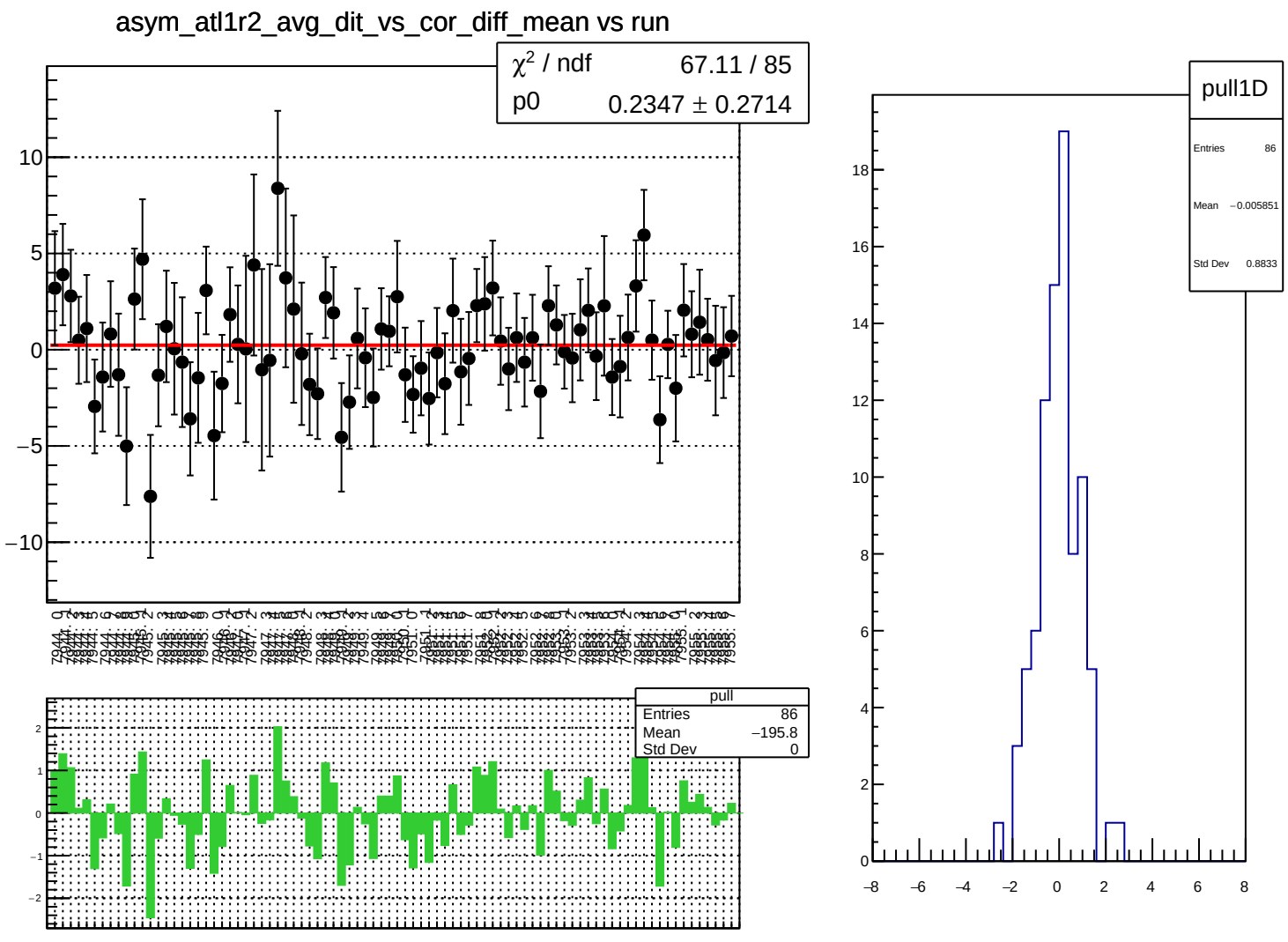

pull1D
Entries 86
Mean −0.005308
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

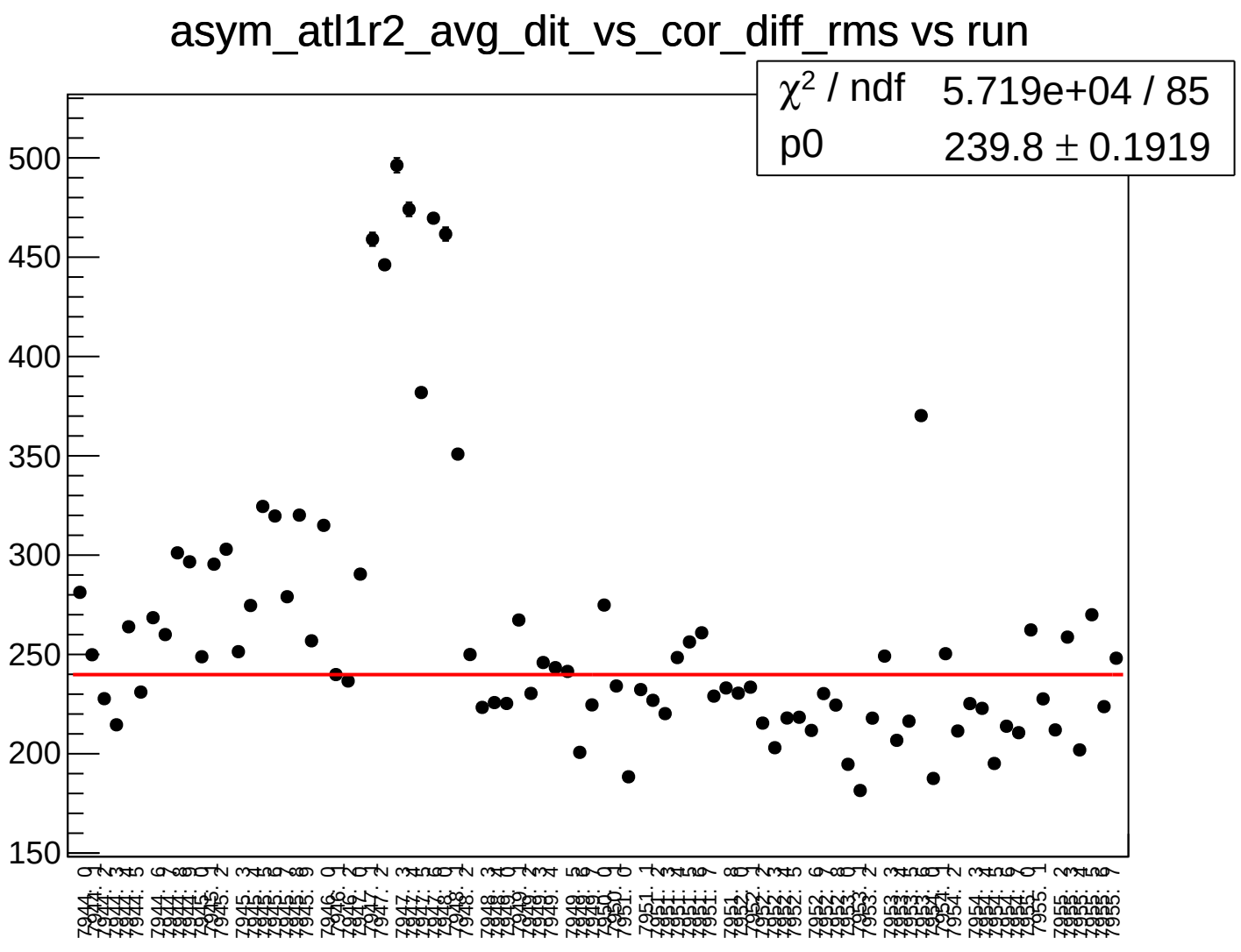

asym_atl1r2_avg_rms vs run
χ² / ndf 3357 / 85
p0 7605 ± 5.983
8600
8400
8200
8000
7800
7600
7400
7200
7000

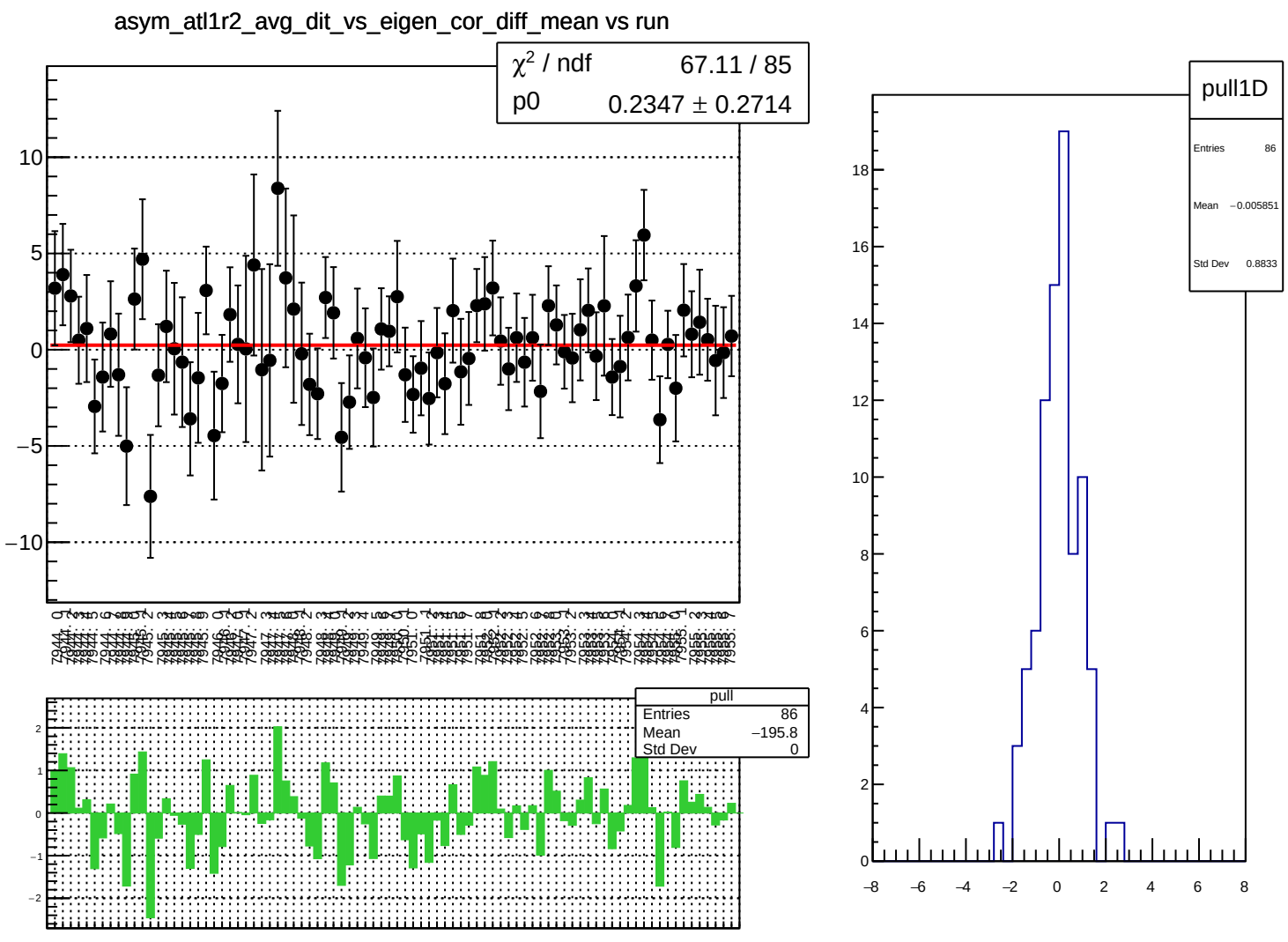

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.45 / 85
p0 1.123e−13 ± 1.169e−12
pull
Entries 86
Mean 37.71
Std Dev 26.31

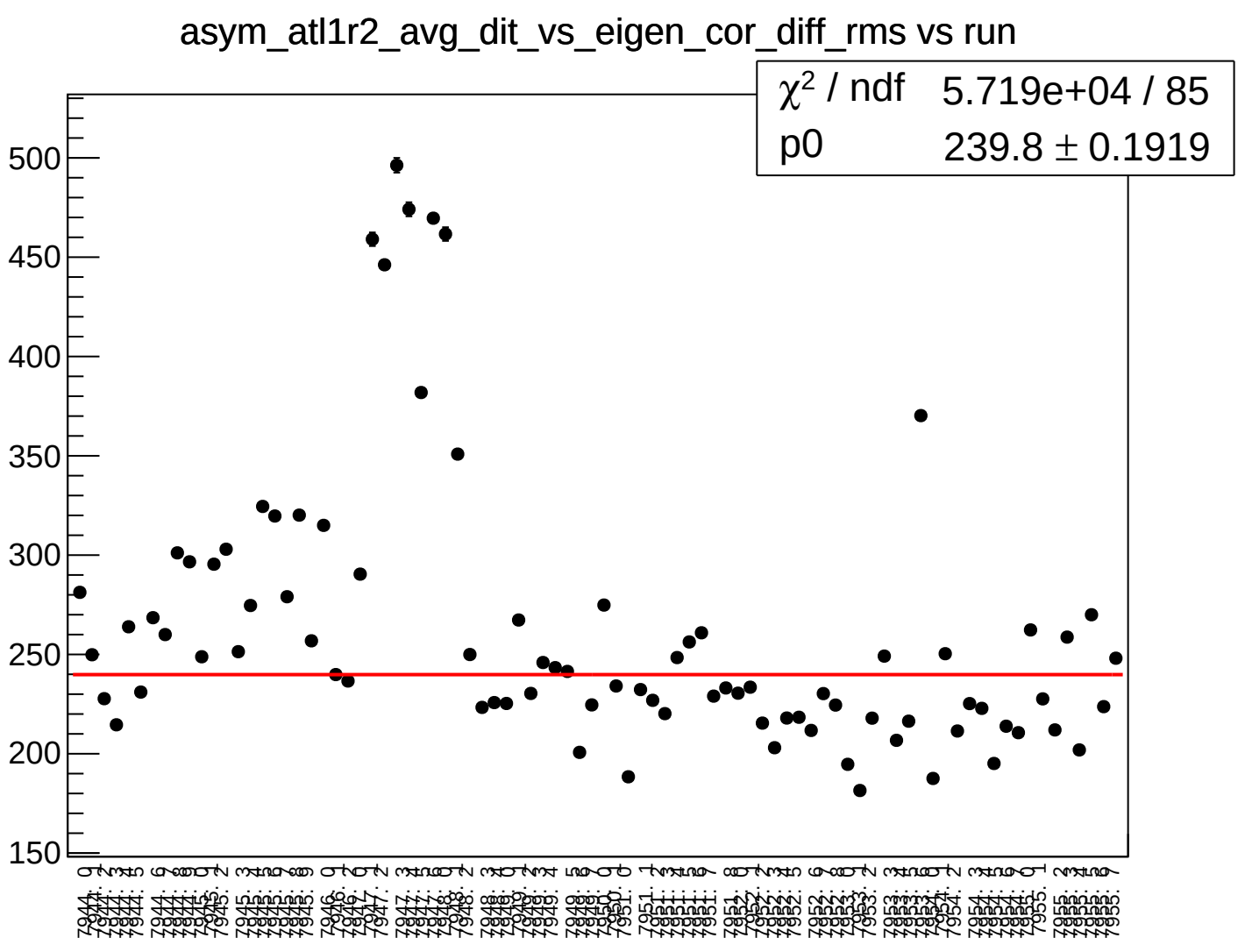

pull1D
Entries 86
Mean −0.2636
Std Dev 1.031

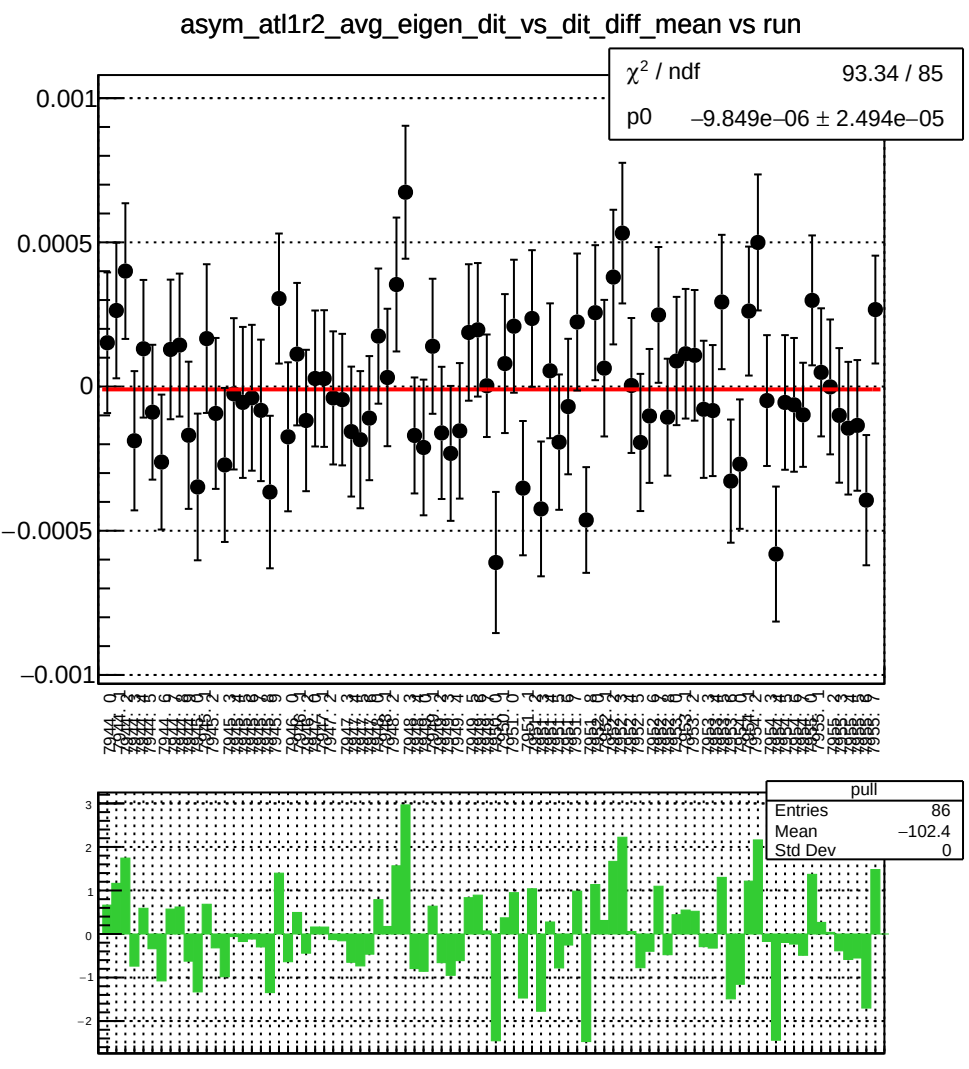

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.34e+05 / 85
p0 7.323e−10 ± 8.264e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

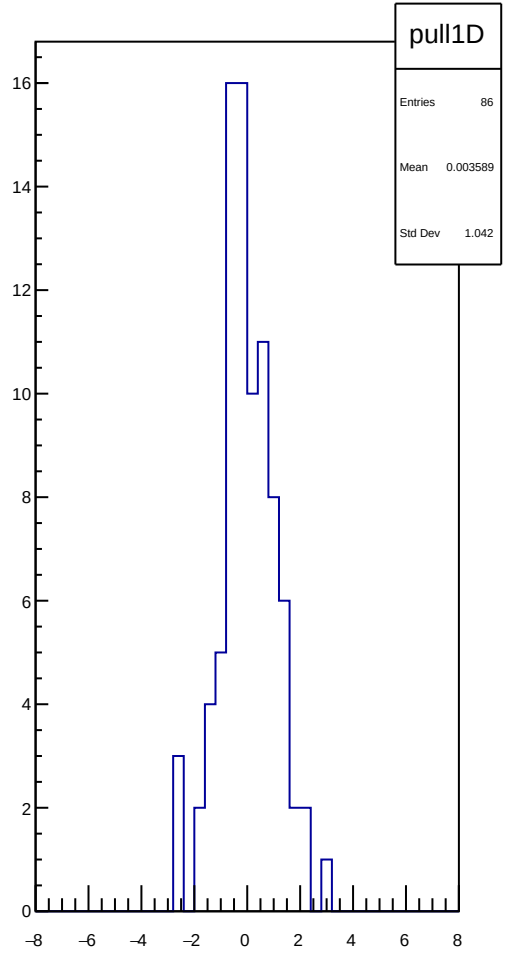

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.11 / 85
p0 0.2347 ± 0.2714
pull
Entries 86
Mean −195.8
Std Dev 0
pull1D
Entries 86
Mean −0.005851
Std Dev 0.8833

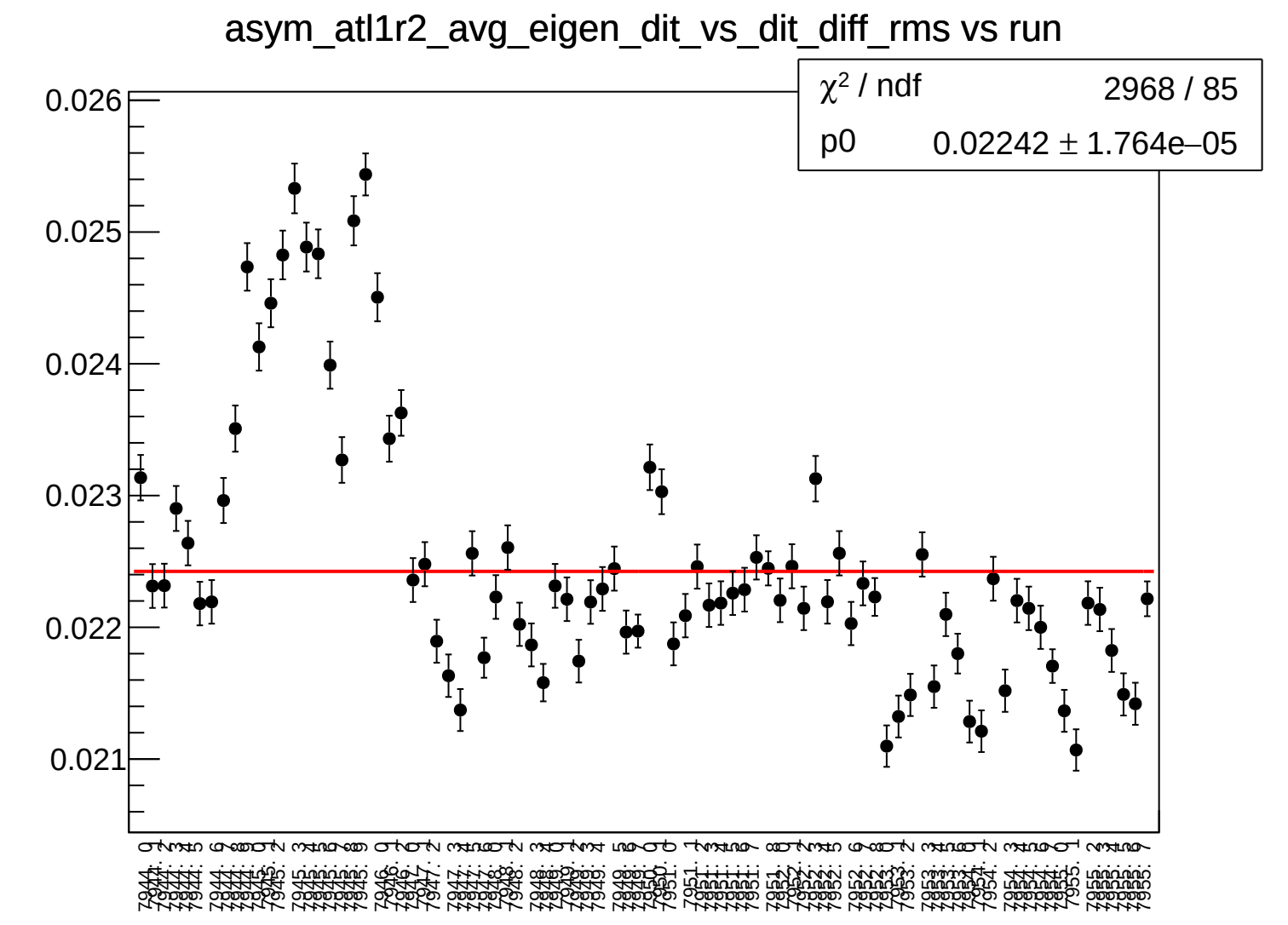

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.719e+04 / 85
p0 239.8 ± 0.1919
500
450
400
350
300
250
200
150

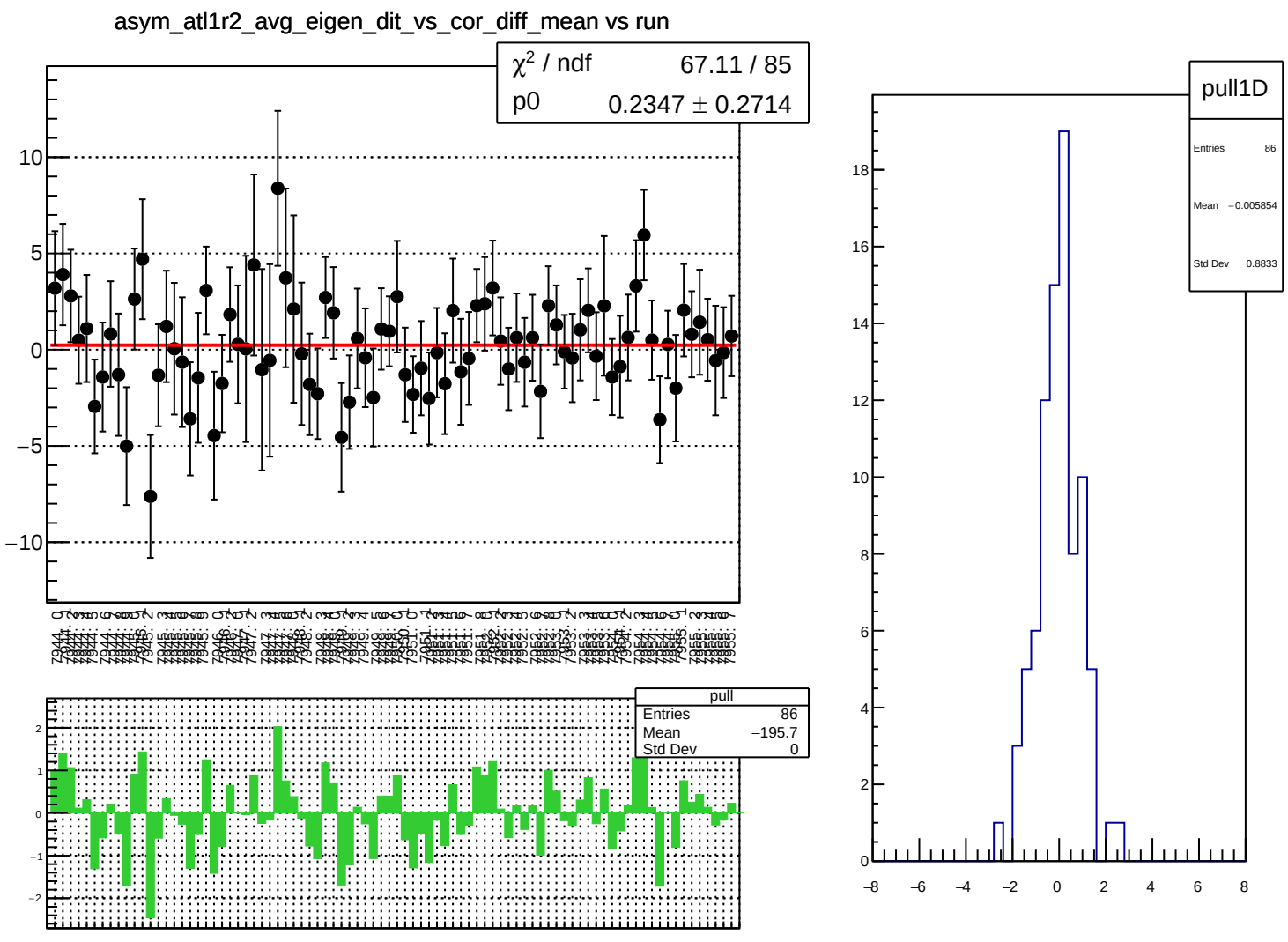

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.11 / 85
p0 0.2347 ± 0.2714
pull
Entries 86
Mean −195.8
Std Dev 0
pull1D
Entries 86
Mean −0.005851
Std Dev 0.8833

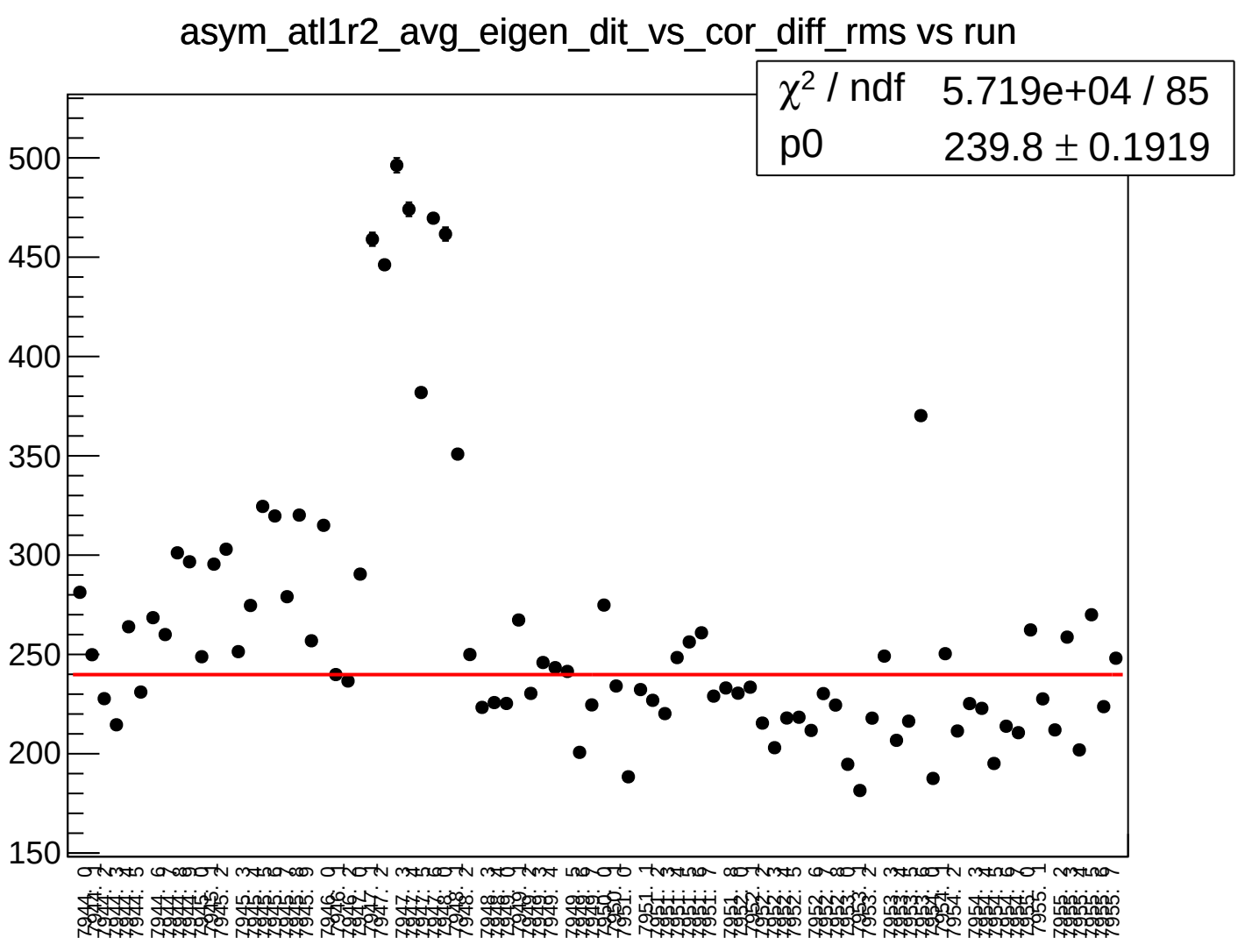

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.719e+04 / 85
p0 239.8 ± 0.1919
500
450
400
350
300
250
200
150

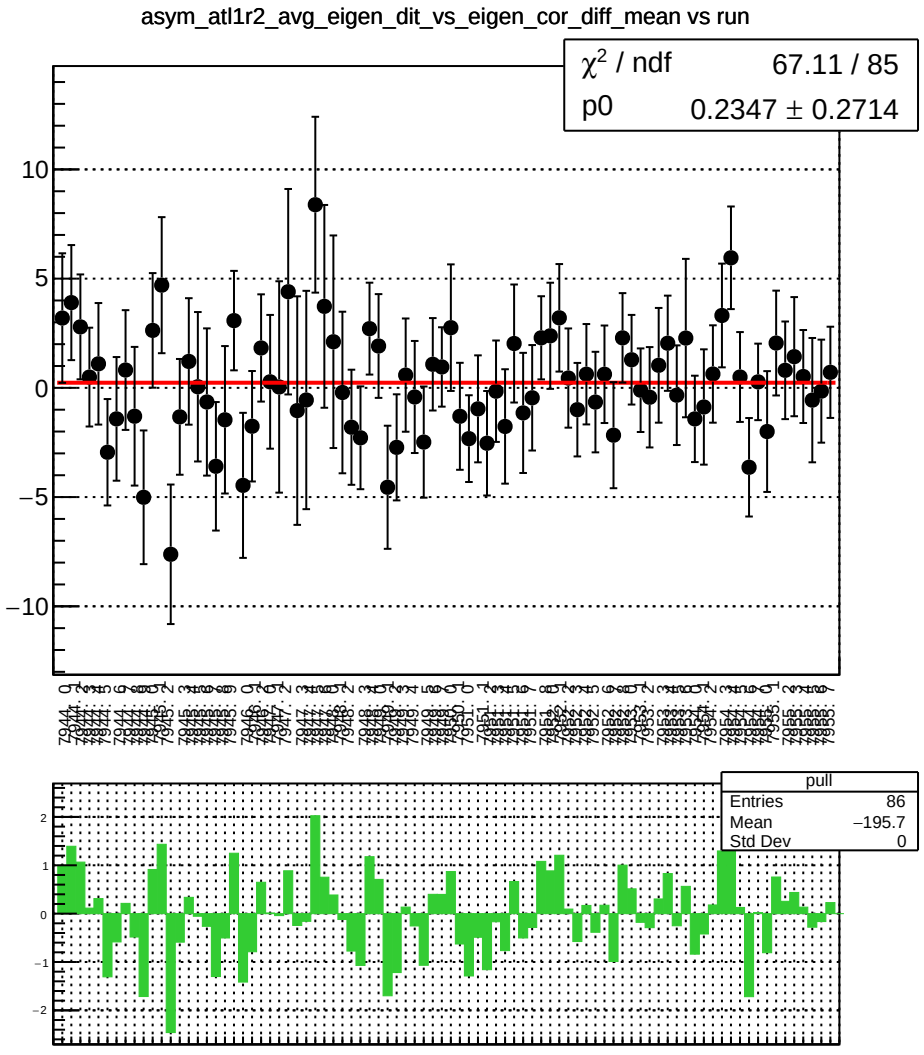

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 93.34 / 85
p0 −9.849e−06 ± 2.494e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean −102.4
Std Dev 0
3
2
1
0
−1
−2

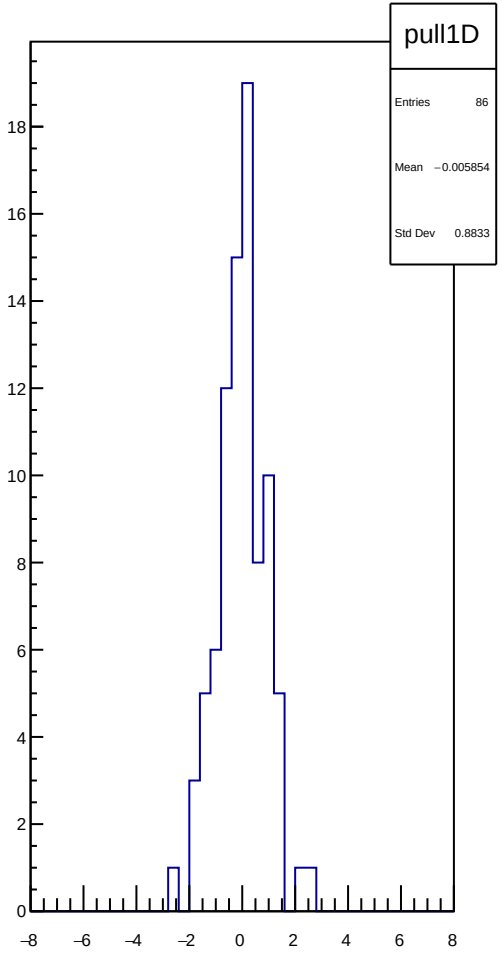

pull1D
Entries 86
Mean 0.003589
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

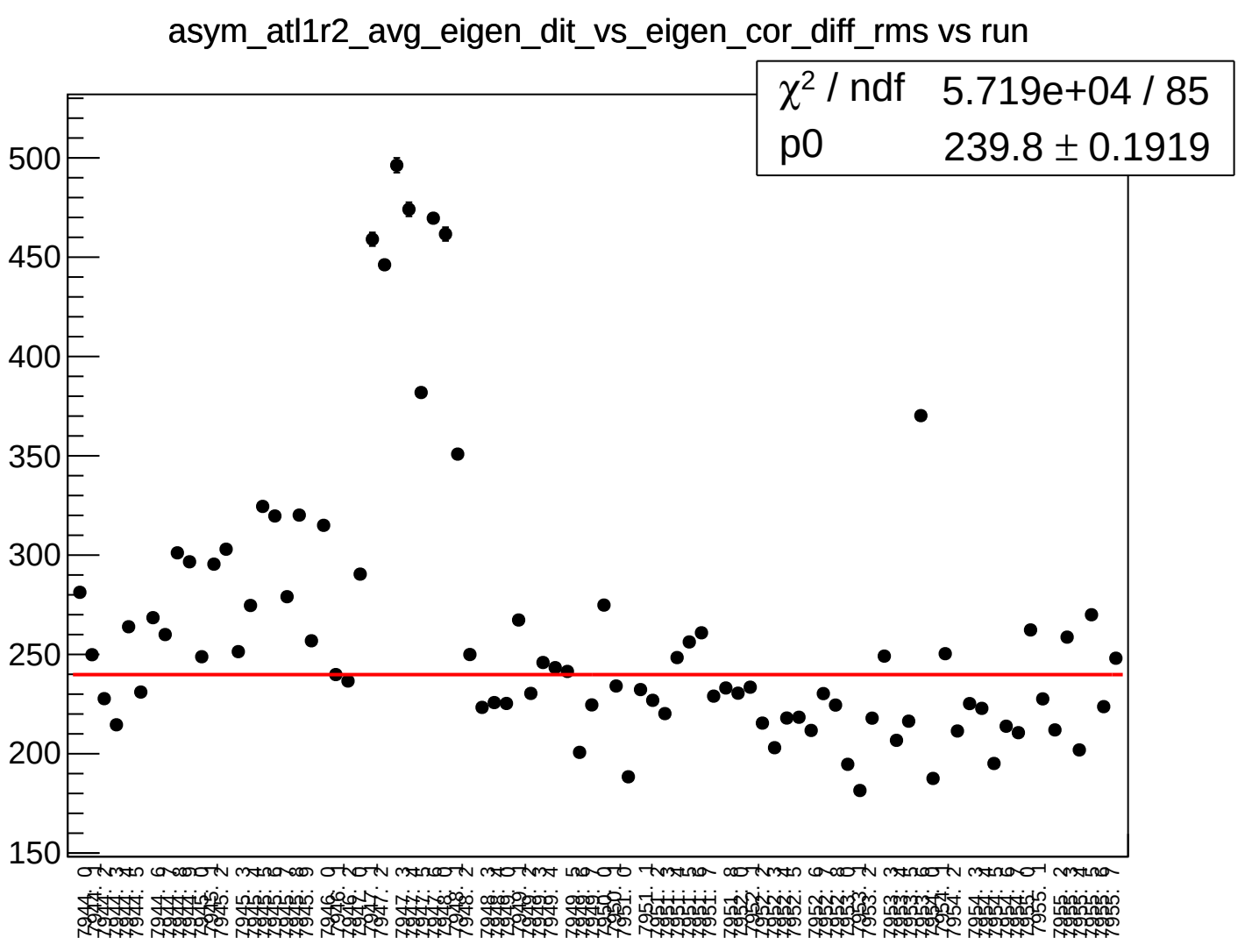

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2968 / 85
p0 0.02242 ± 1.764e−05
0.026
0.025
0.024
0.023
0.022
0.021

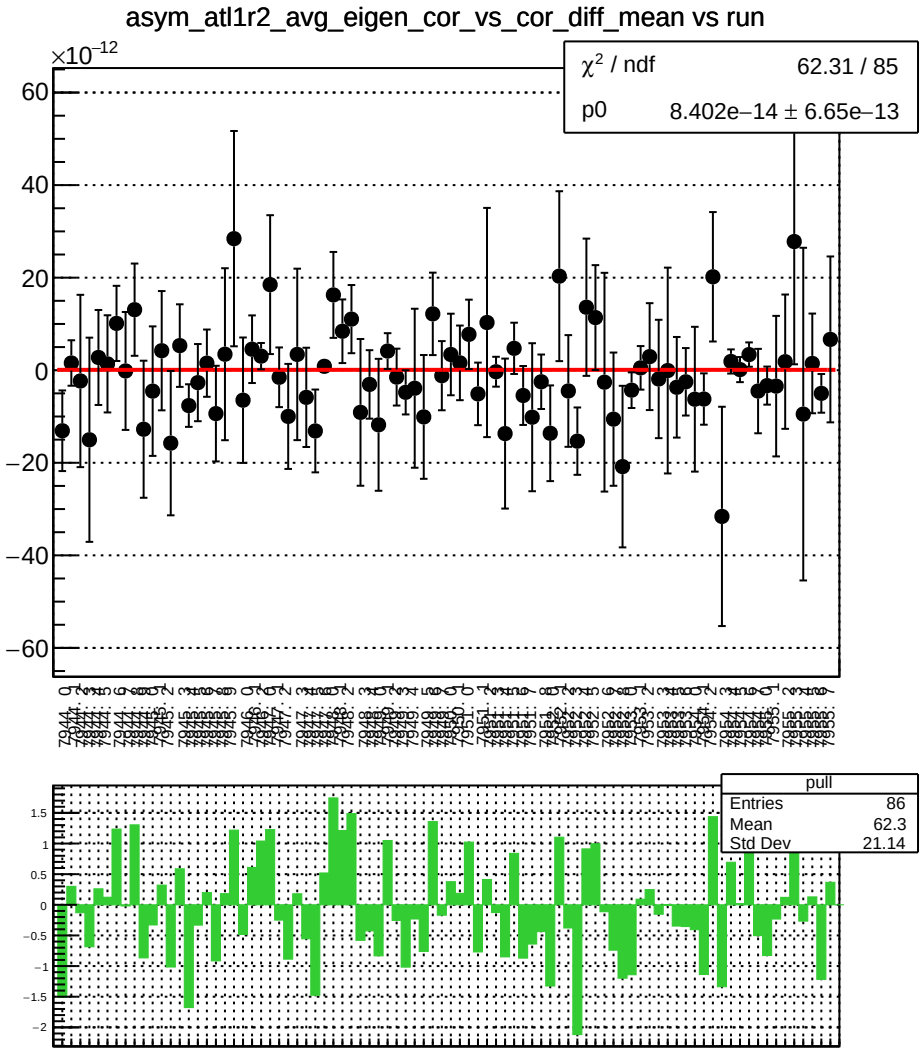

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.11 / 85
p0 0.2347 ± 0.2714
pull
Entries 86
Mean −195.7
Std Dev 0
pull1D
Entries 86
Mean −0.005854
Std Dev 0.8833

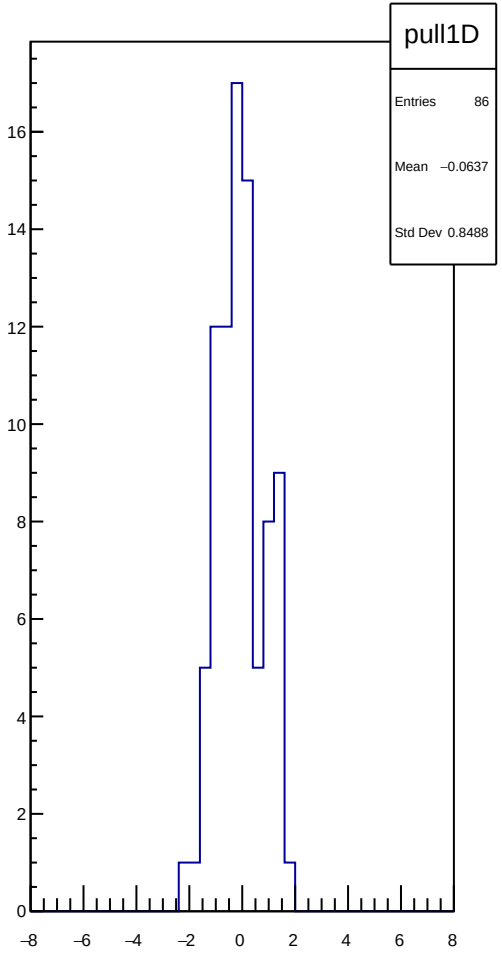

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.719e+04 / 85
p0 239.8 ± 0.1919
500
450
400
350
300
250
200
150

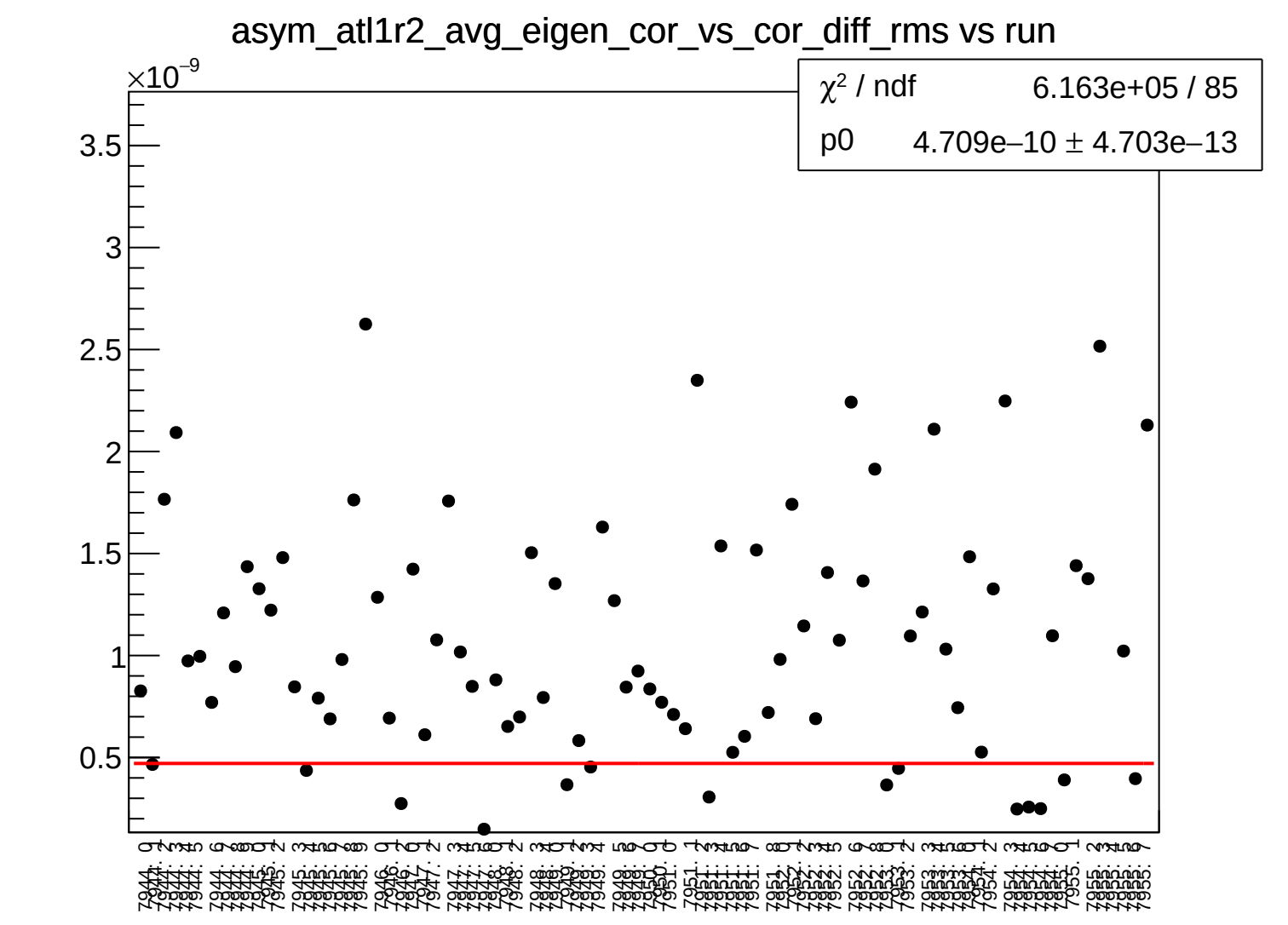

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.11 / 85
p0 0.2347 ± 0.2714
pull
Entries 86
Mean −195.7
Std Dev 0

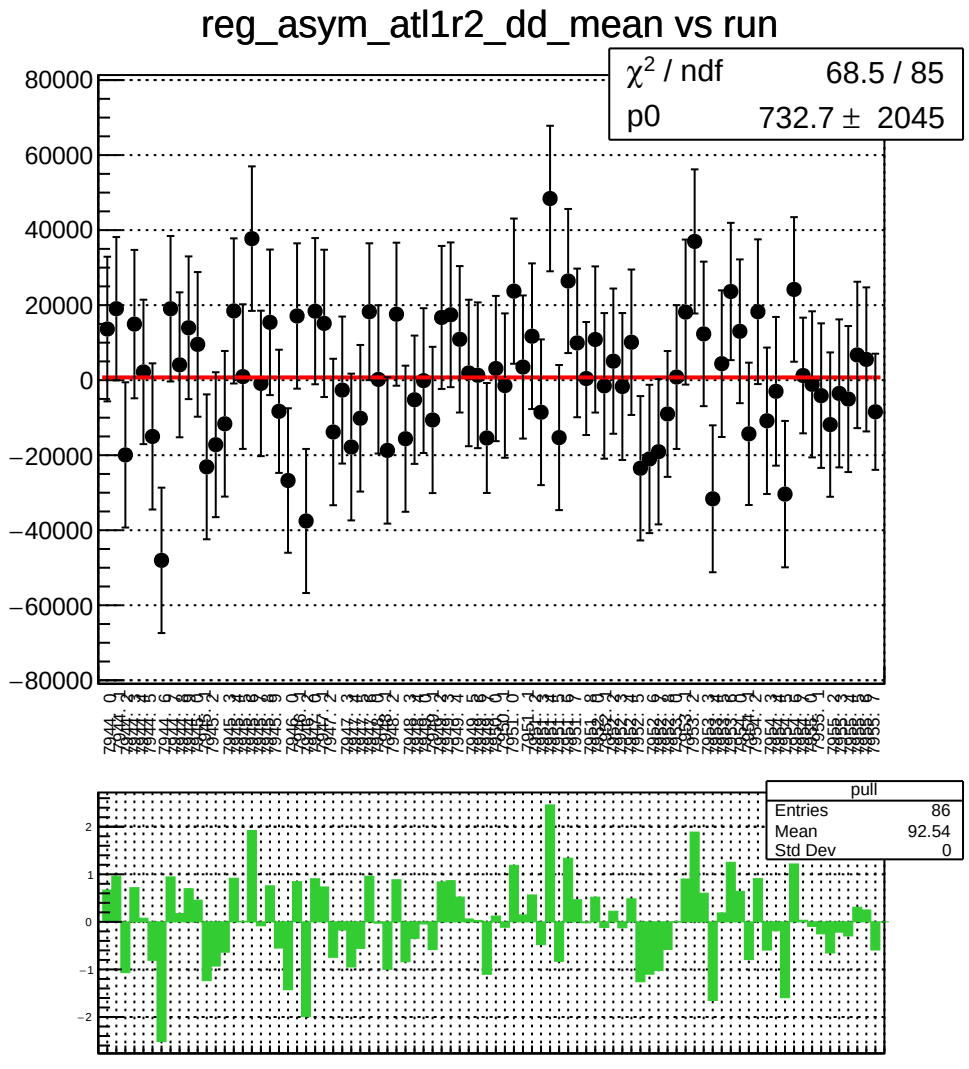

pull1D
Entries 86
Mean −0.005854
Std Dev 0.8833

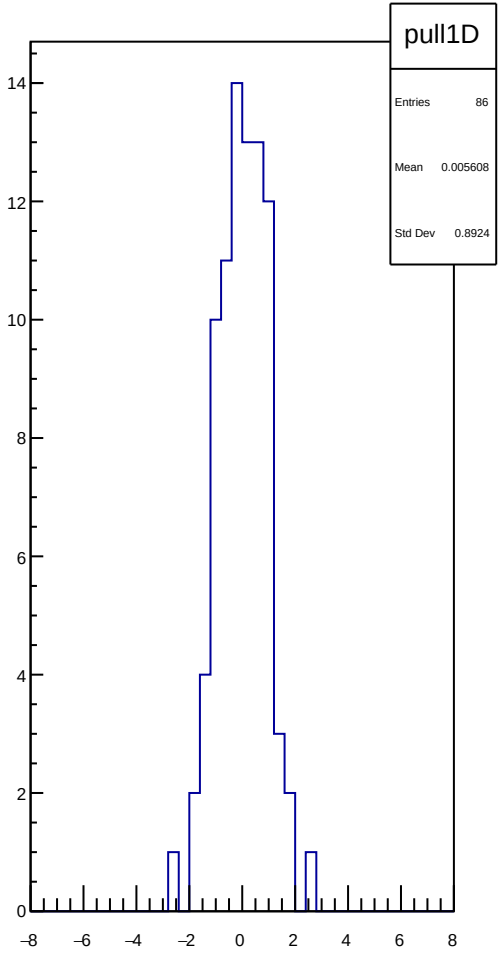

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.719e+04 / 85
p0 239.8 ± 0.1919
500
450
400
350
300
250
200
150

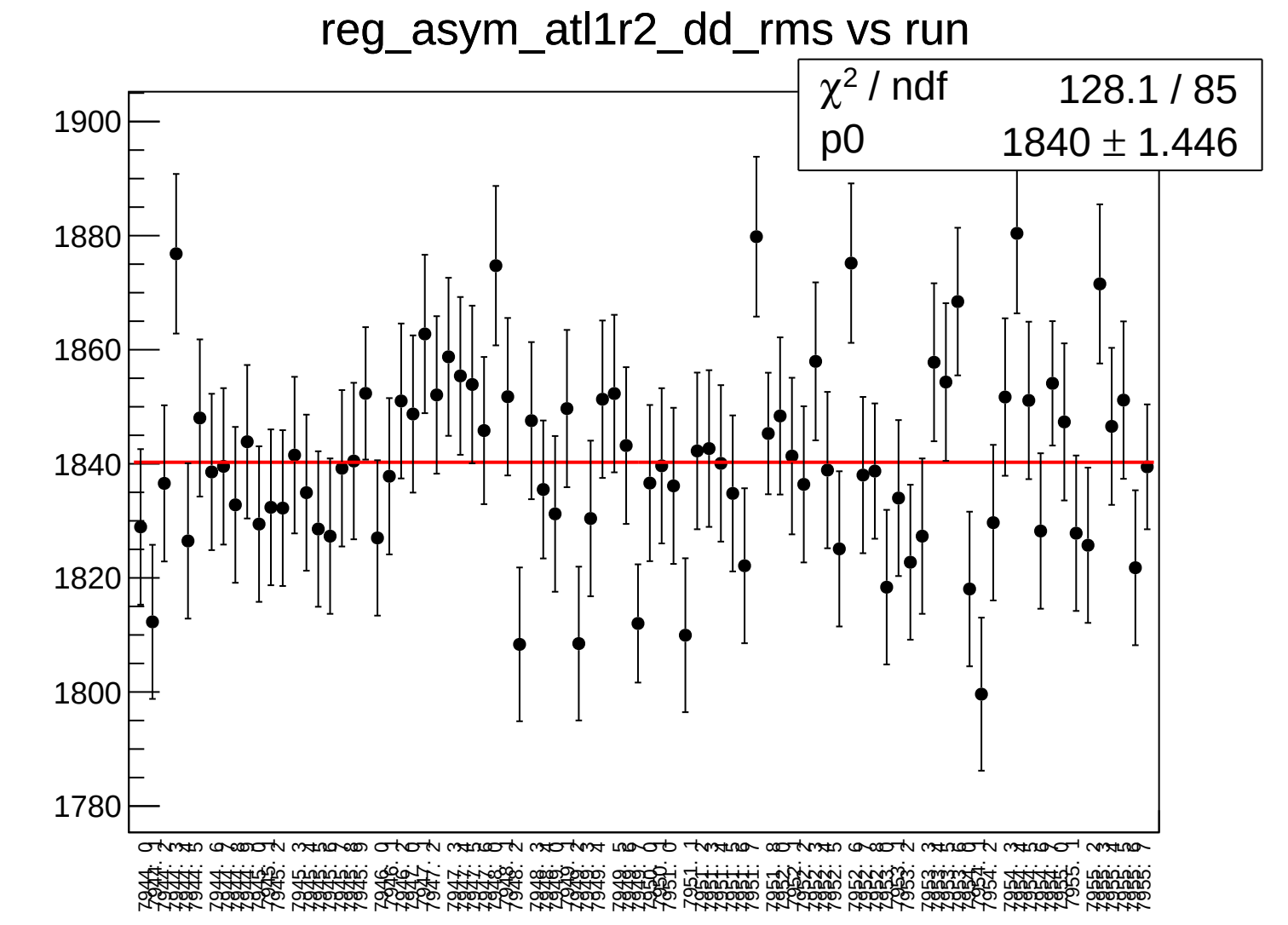

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.31 / 85
p0 8.402e−14 ± 6.65e−13
pull
Entries 86
Mean 62.3
Std Dev 21.14

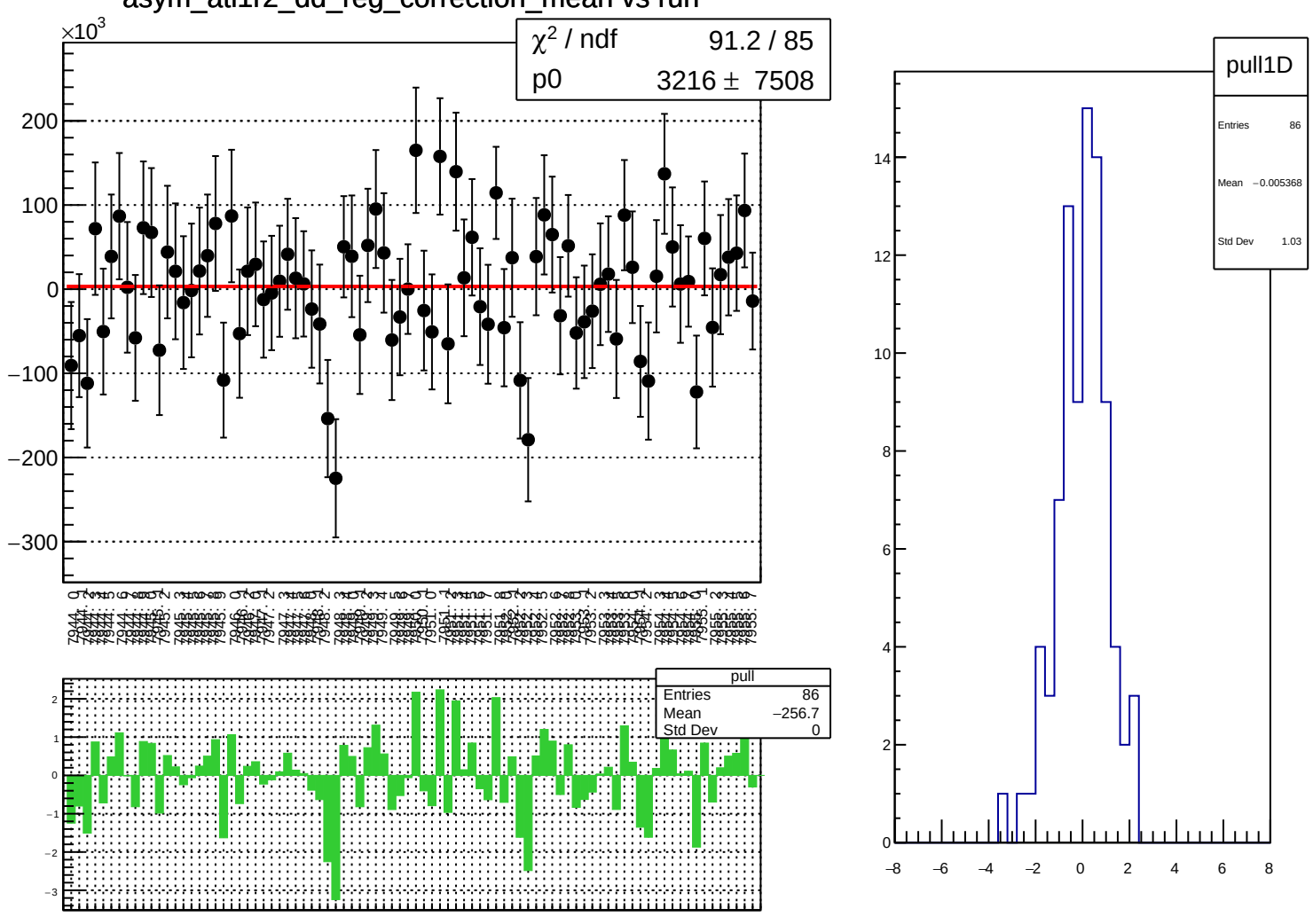

pull1D
Entries 86
Mean −0.0637
Std Dev 0.8488

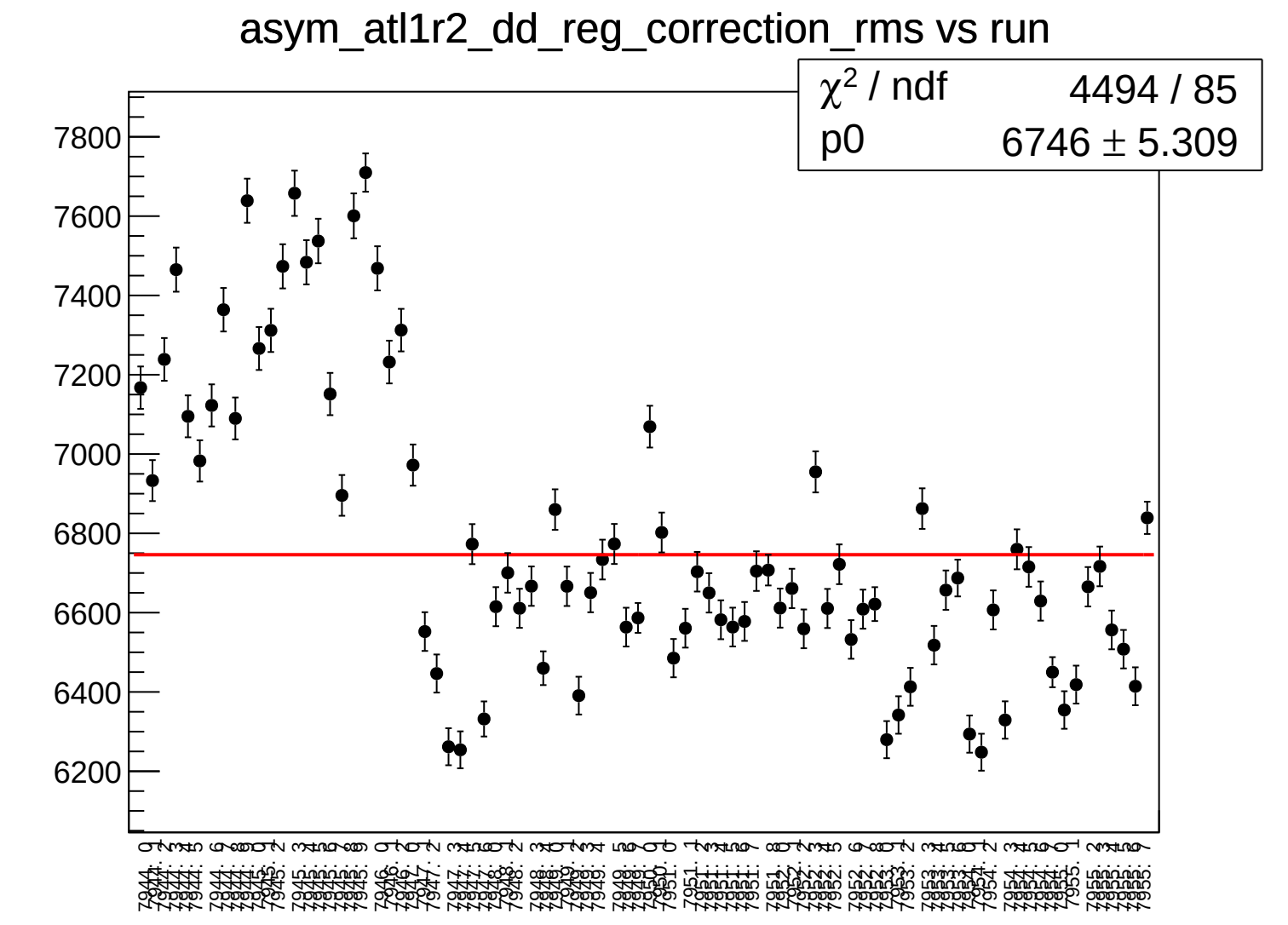

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.163e+05 / 85
p0 4.709e−10 ± 4.703e−13
3.5
3
2.5
2
1.5
1
0.5

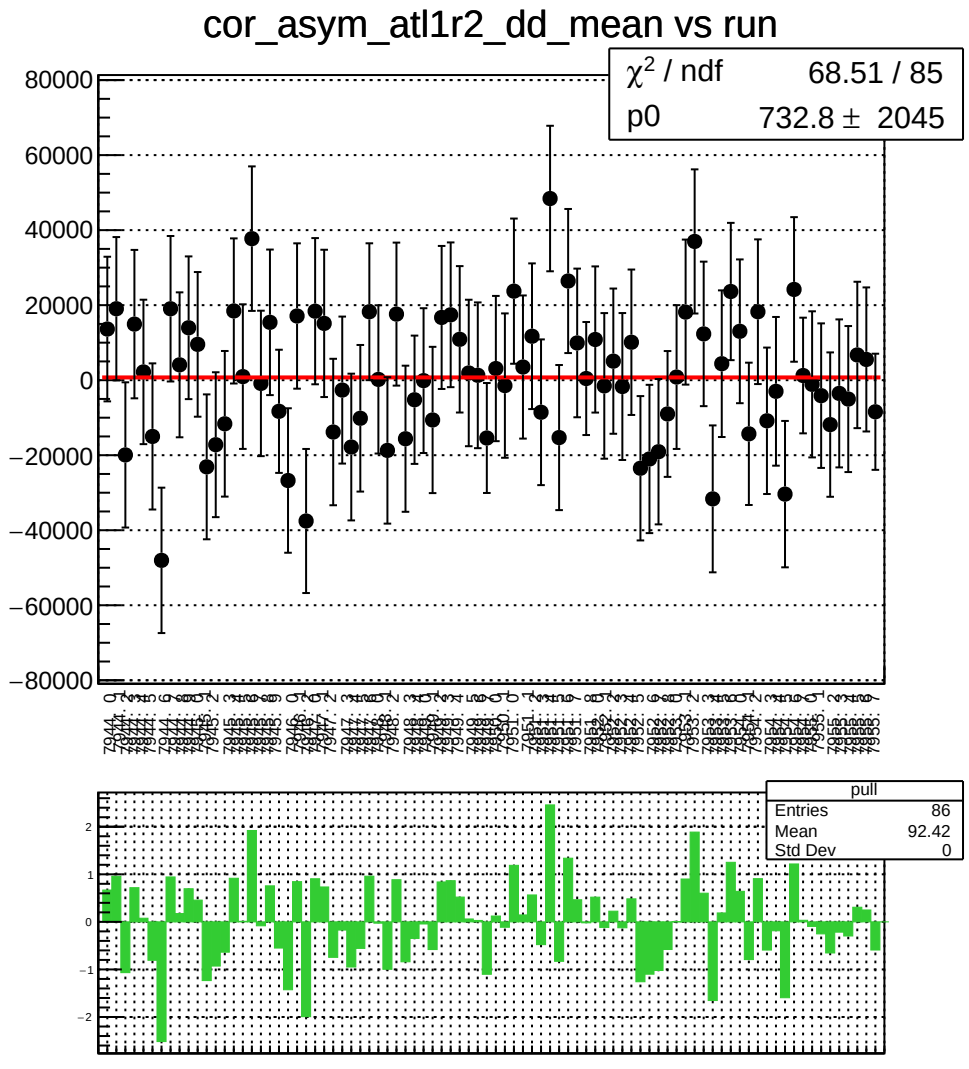

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 68.5 / 85
p0 732.7 ± 2045
pull
Entries 86
Mean 92.54
Std Dev 0

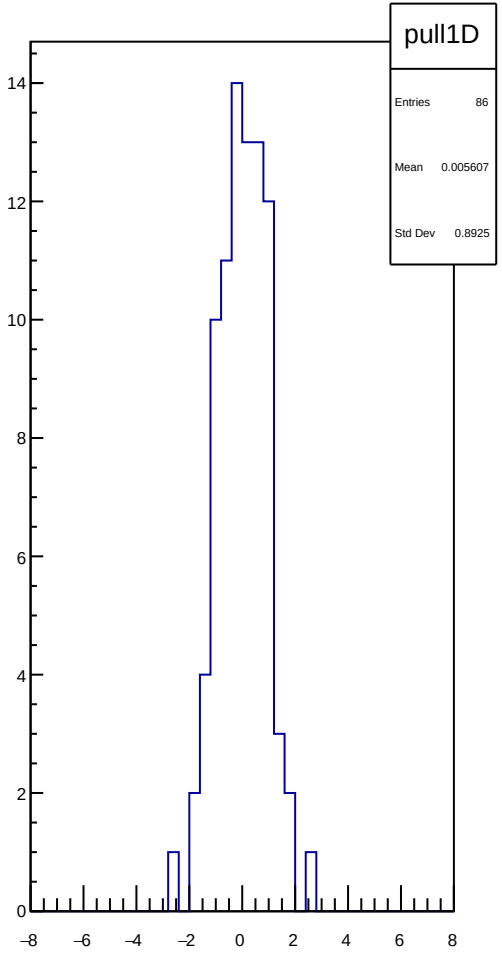

pull1D
Entries 86
Mean 0.005608
Std Dev 0.8924

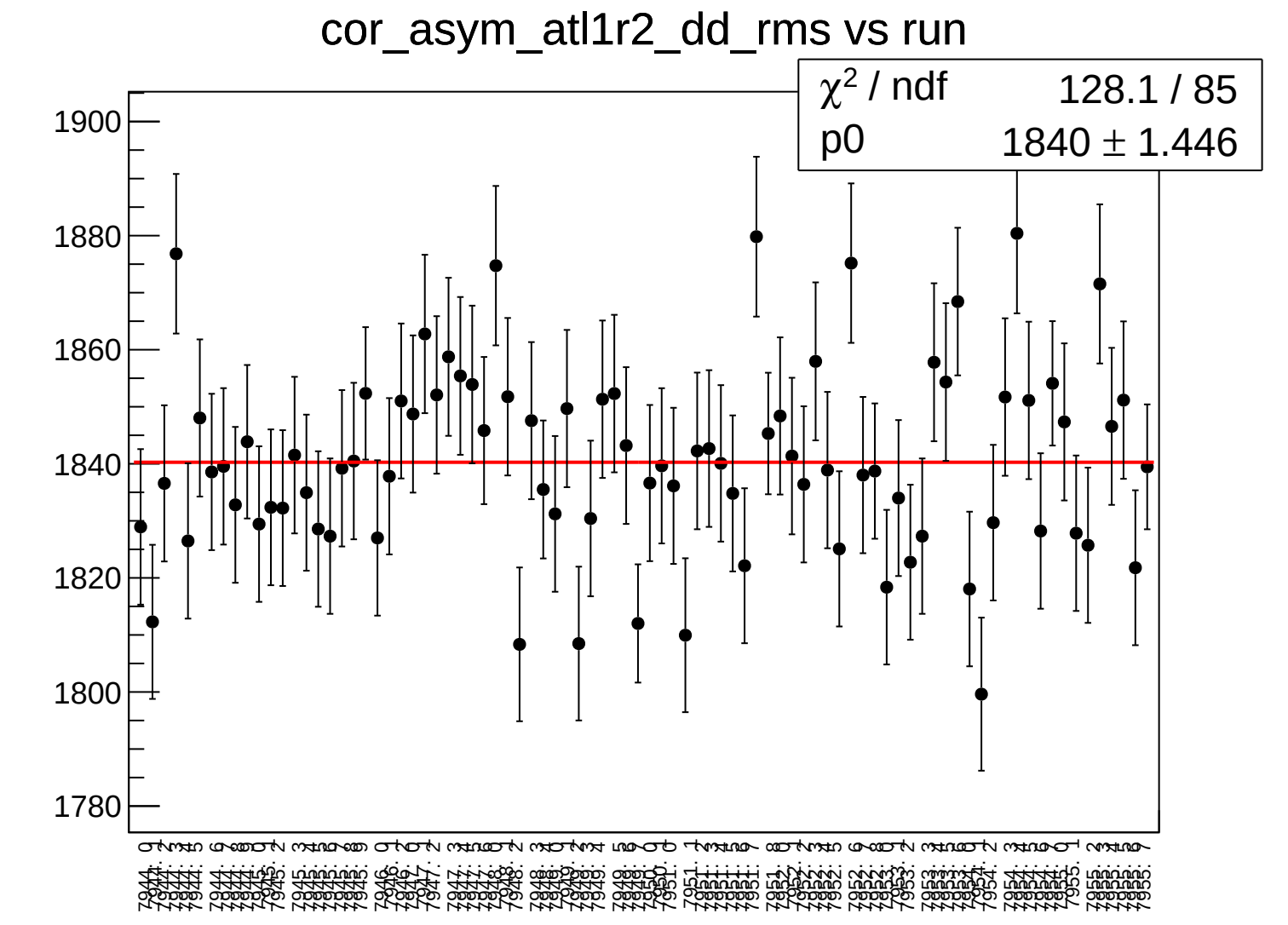

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 128.1 / 85
p0 1840 ± 1.446
1900
1880
1860
1840
1820
1800
1780

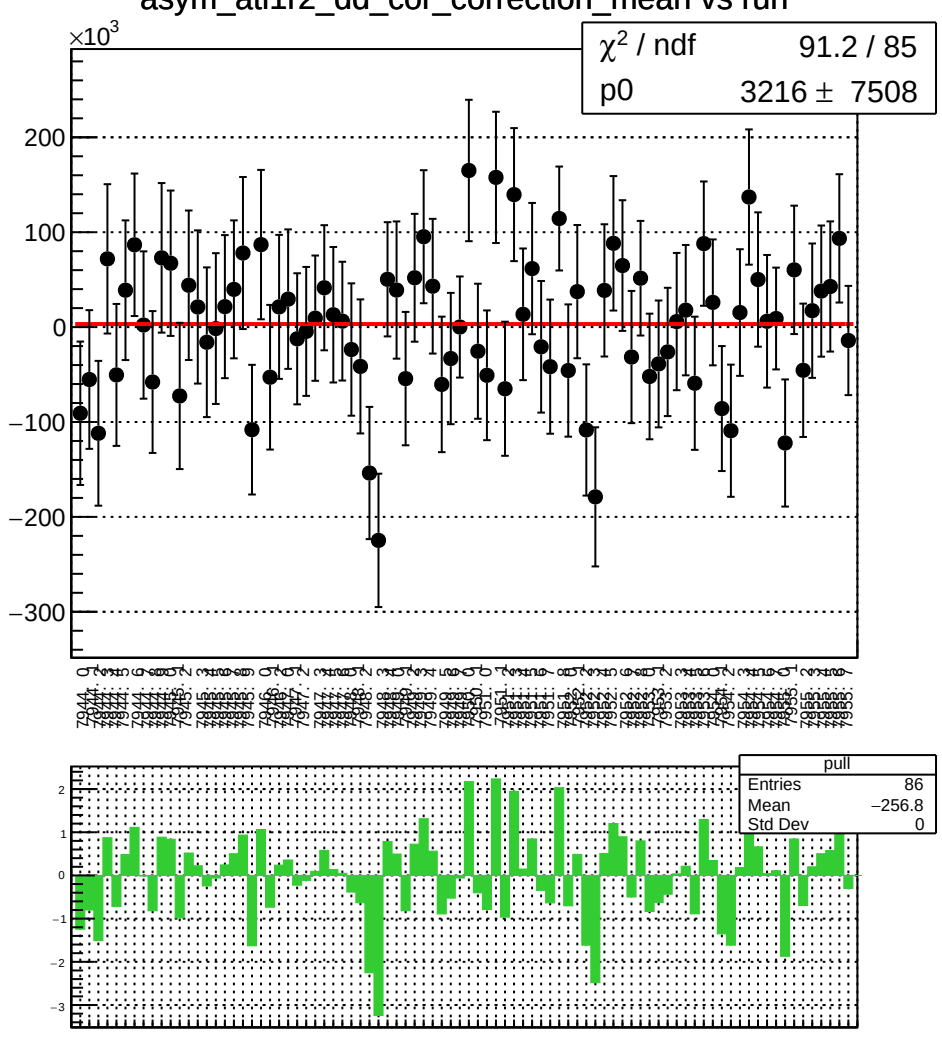

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.2 / 85
p0 3216 ± 7508
200
100
0
−100
−200
−300
pull
Entries 86
Mean −256.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.005368
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

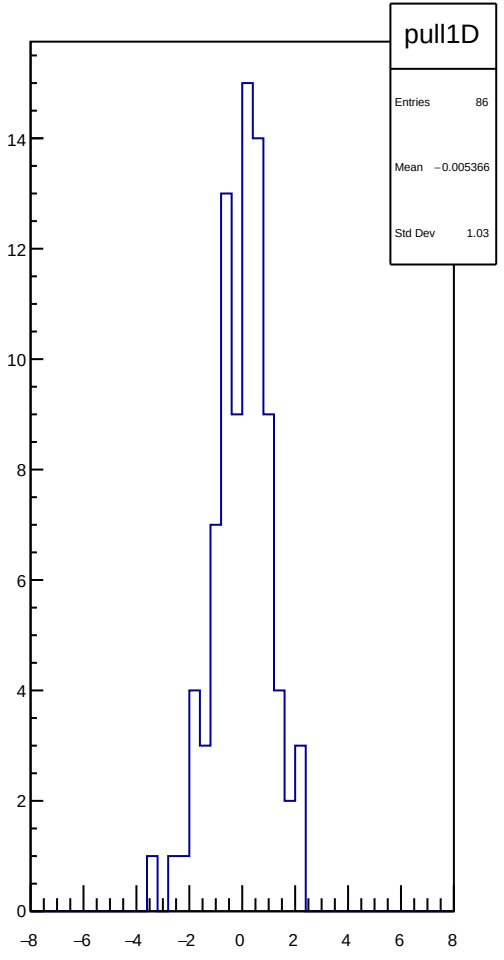

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 4494 / 85
p0 6746 ± 5.309
7800
7600
7400
7200
7000
6800
6600
6400
6200

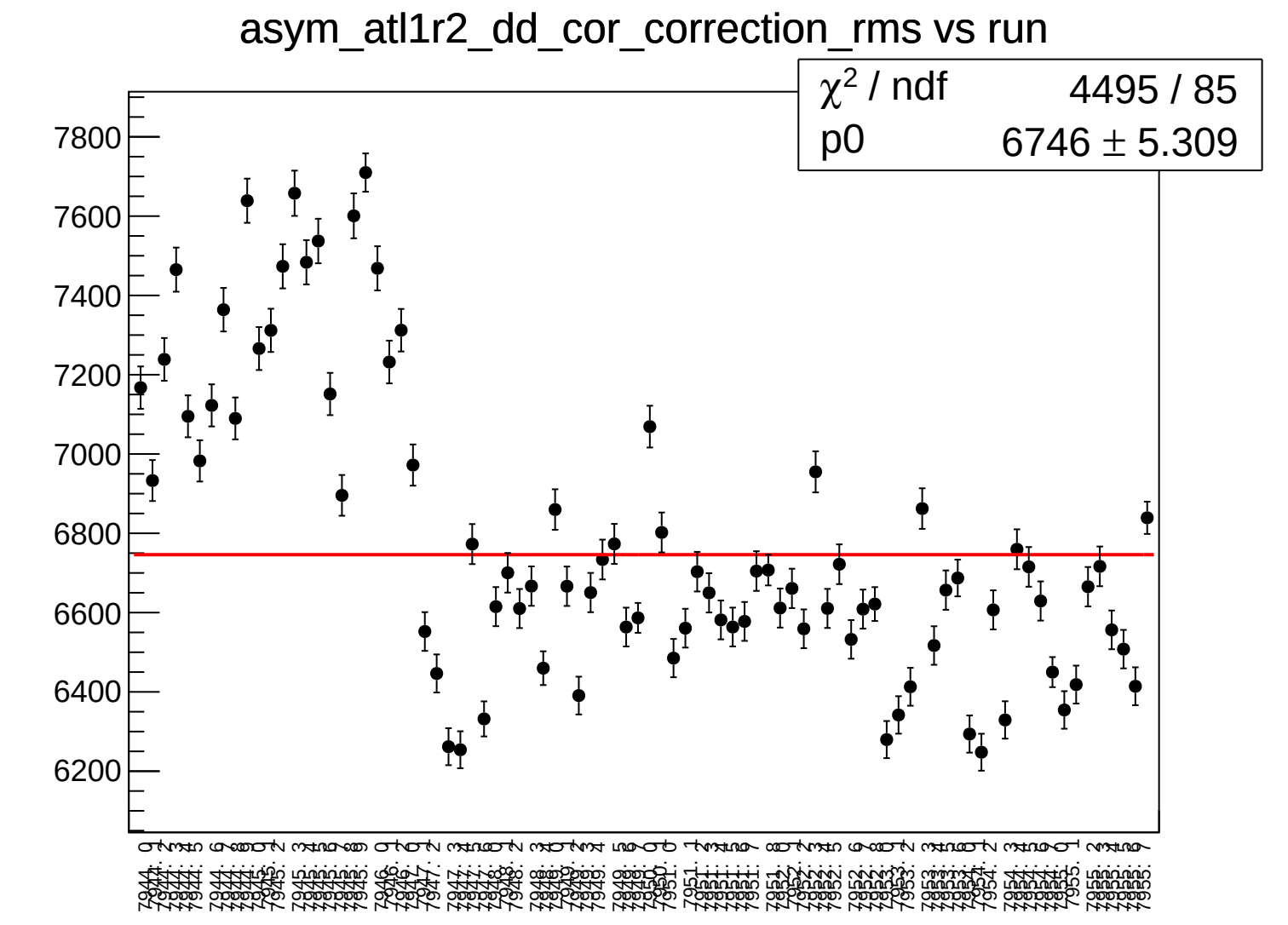

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 68.51 / 85
p0 732.8 ± 2045
pull
Entries 86
Mean 92.42
Std Dev 0

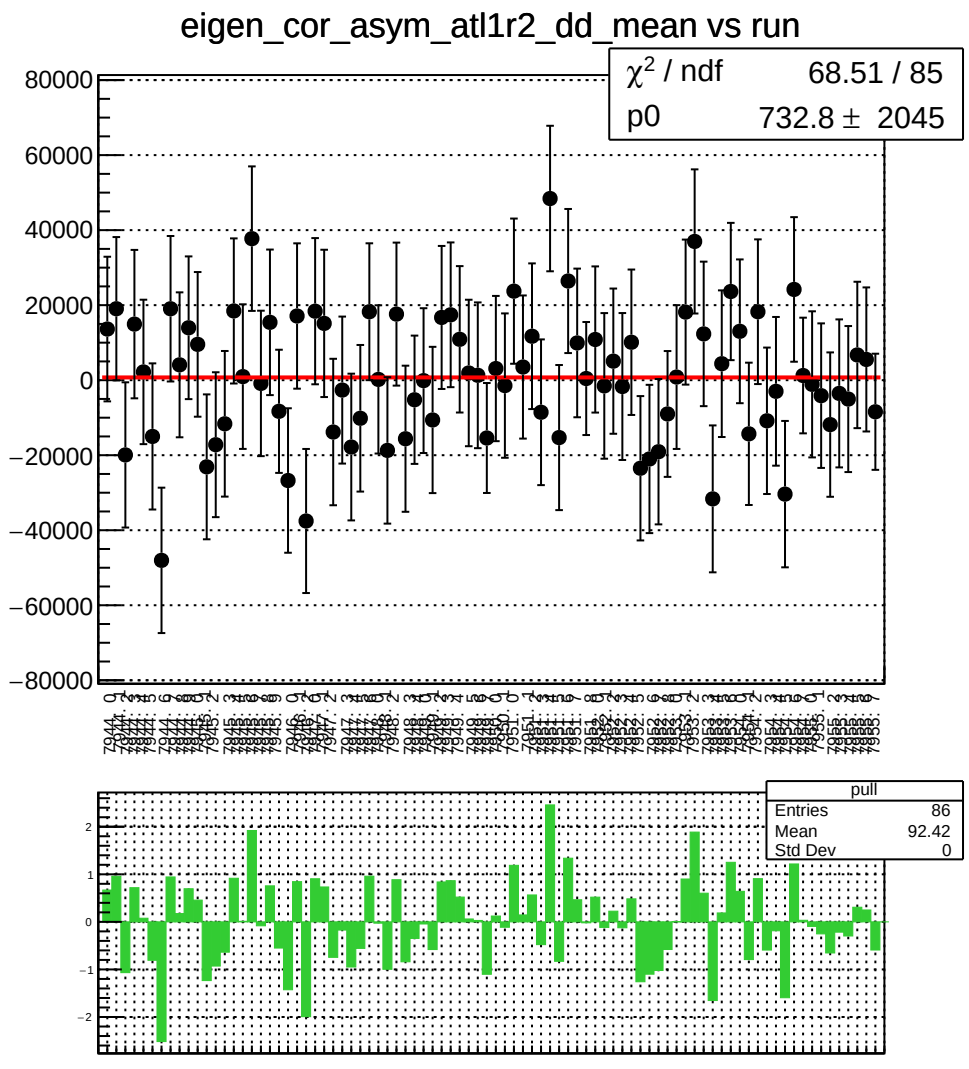

pull1D
Entries 86
Mean 0.005607
Std Dev 0.8925

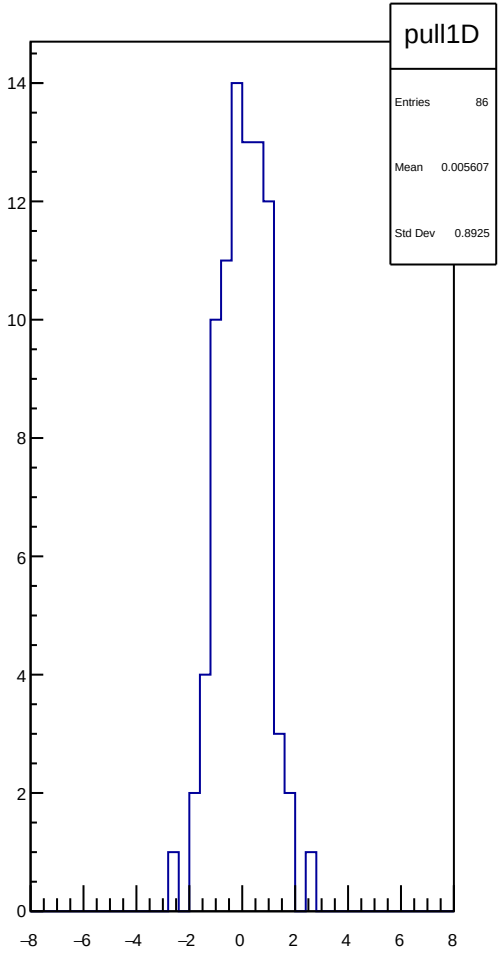

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 128.1 / 85
p0 1840 ± 1.446
1900
1880
1860
1840
1820
1800
1780

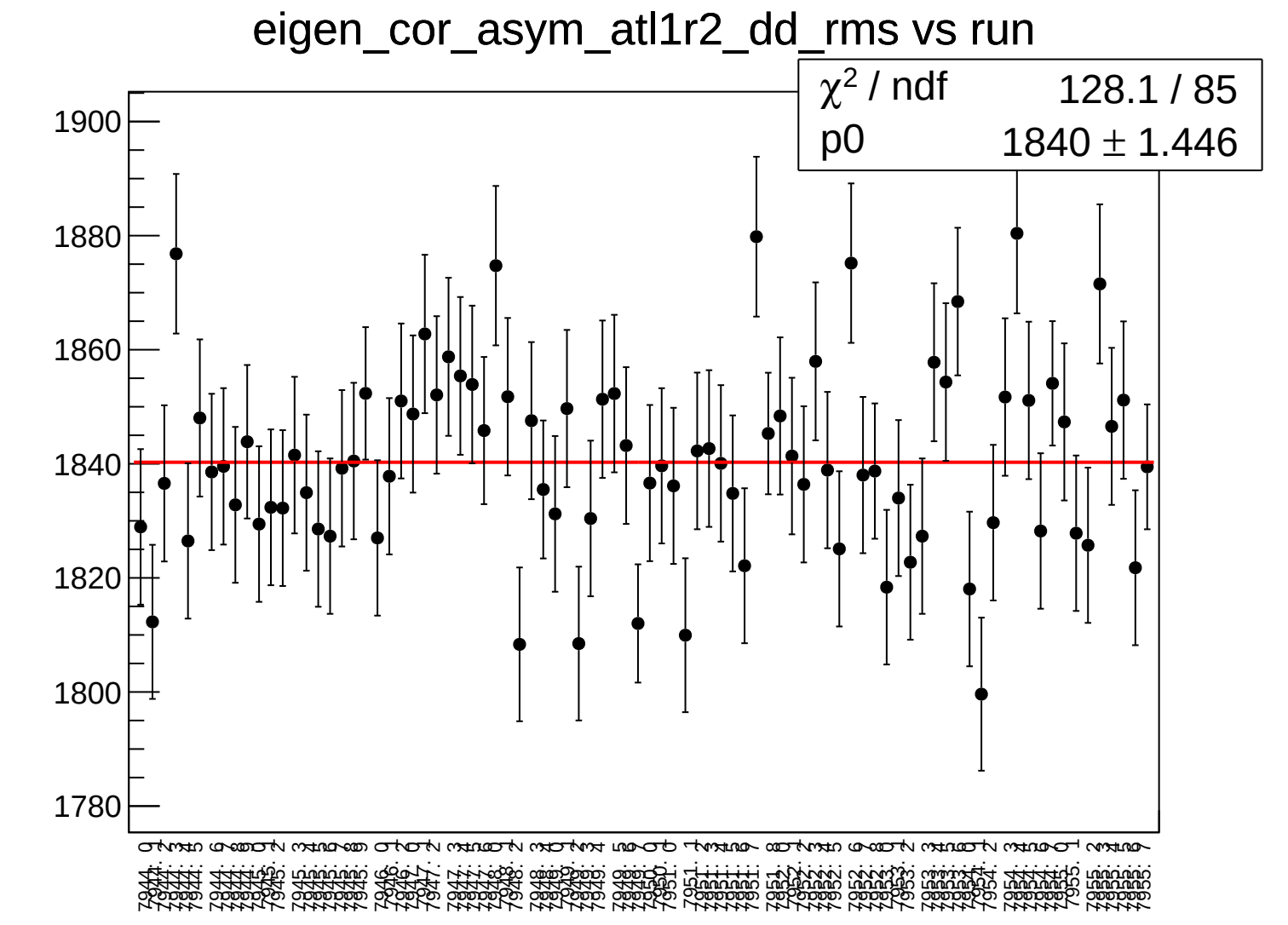

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.2 / 85
p0 3216 ± 7508
200
100
0
−100
−200
−300
pull
Entries 86
Mean −256.8
Std Dev 0
2
1
0
−1
−2
−3

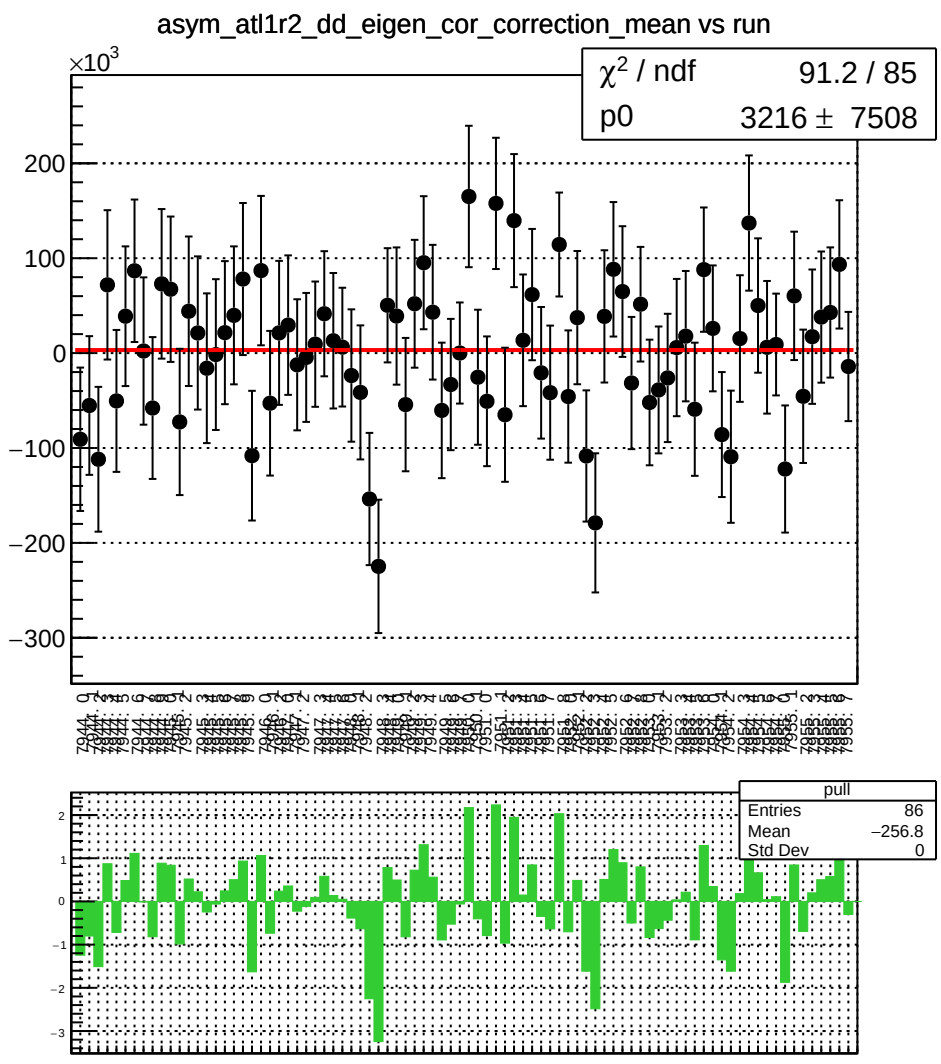

pull1D
Entries 86
Mean −0.005366
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

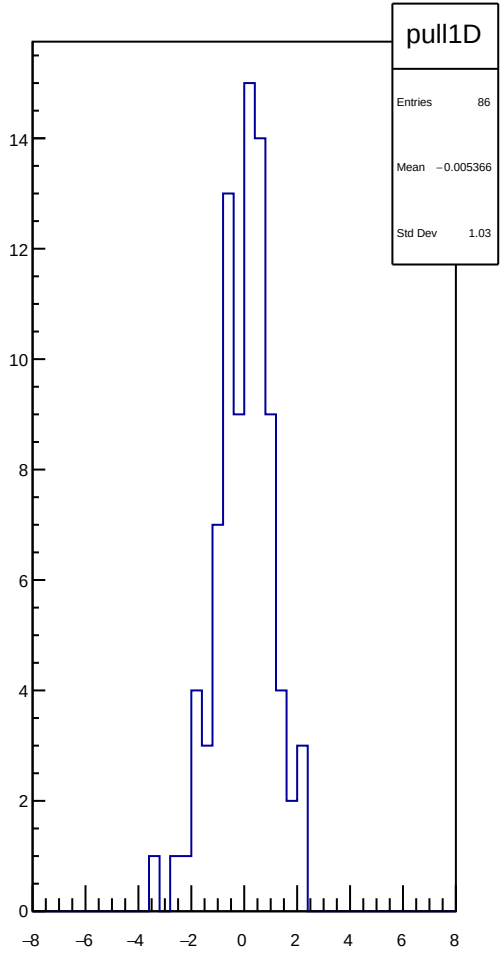

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 4495 / 85
p0 6746 ± 5.309
7800
7600
7400
7200
7000
6800
6600
6400
6200

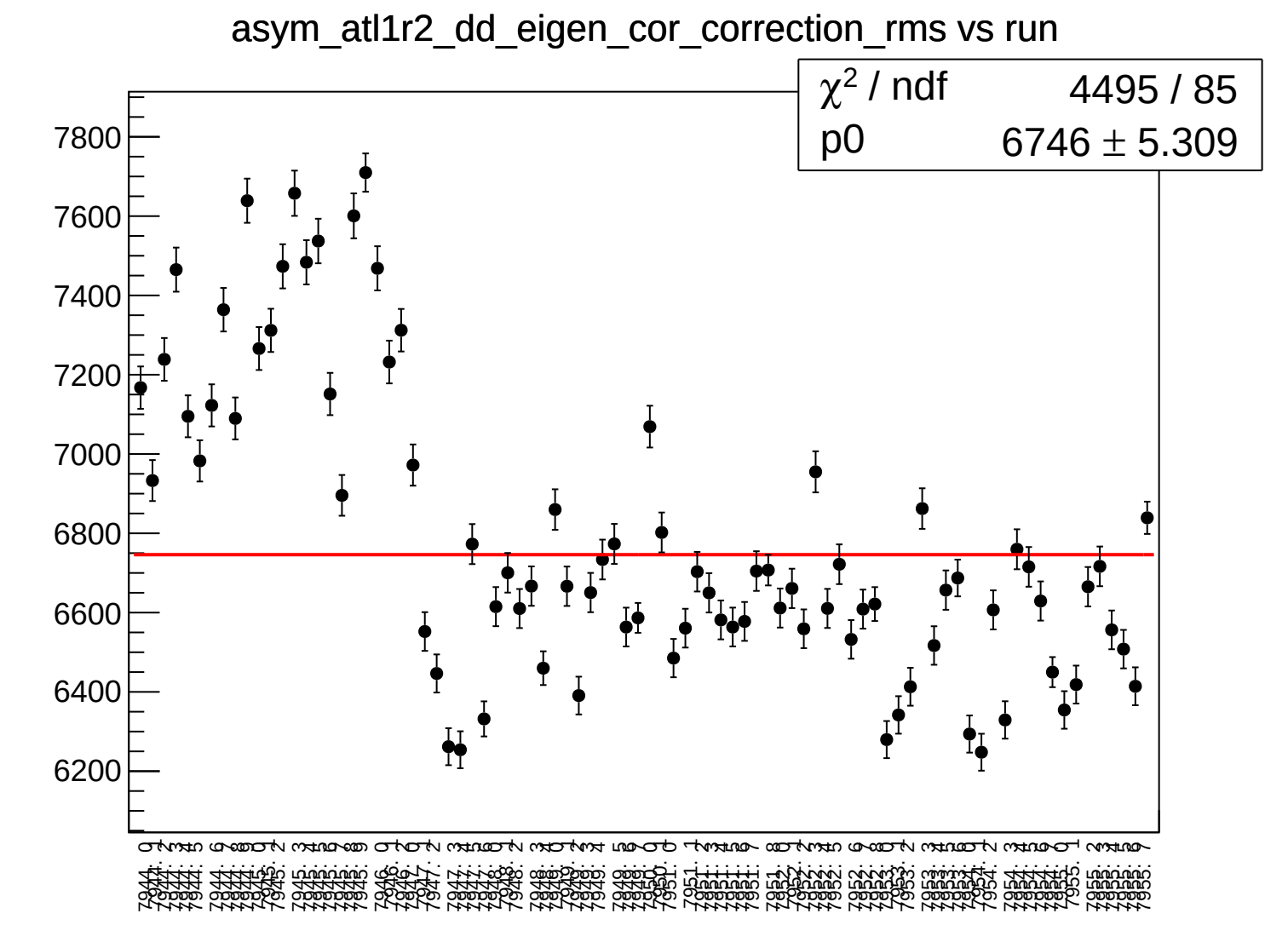

eigen_cor_asym_atl1r2_dd_mean vs run
χ^2 / ndf 68.51 / 85
p0 732.8 ± 2045
pull
Entries 86
Mean 92.42
Std Dev 0

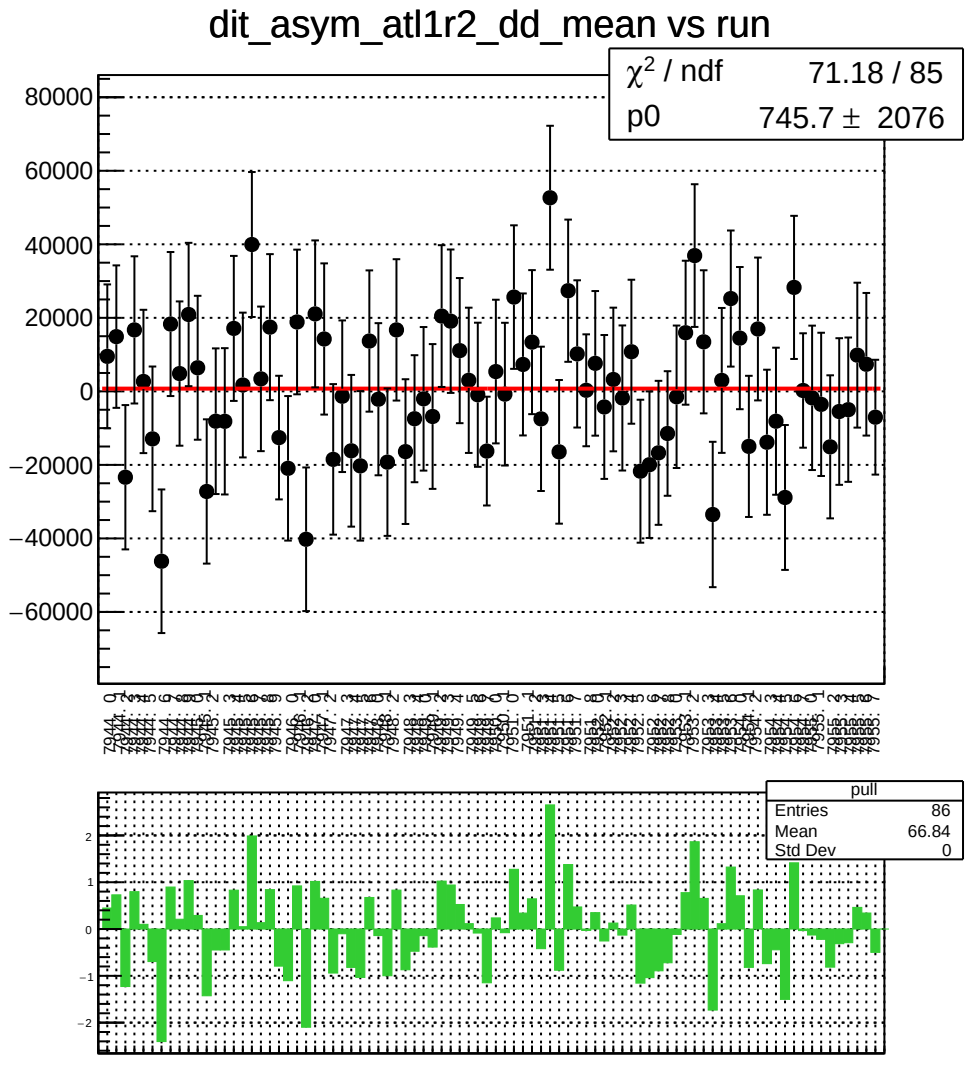

pull1D
Entries 86
Mean 0.005607
Std Dev 0.8925

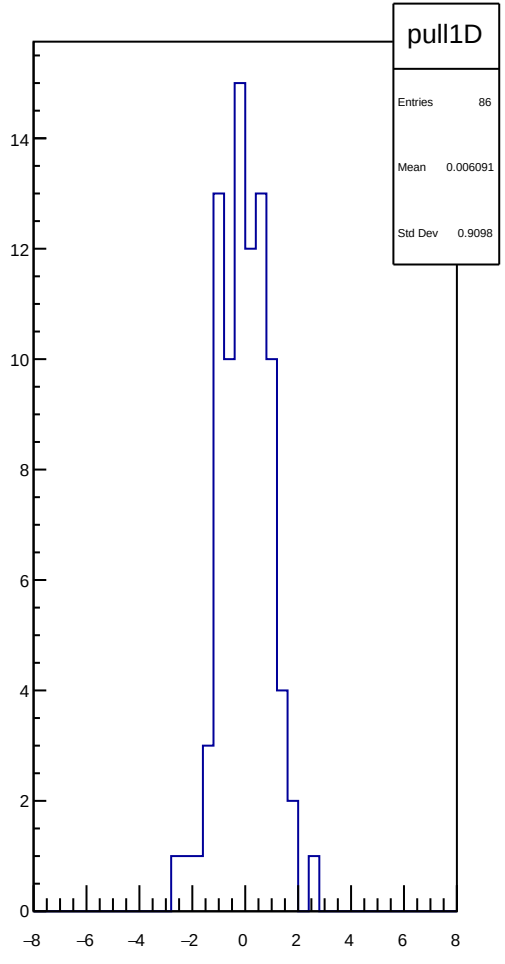

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 128.1 / 85
p0 1840 ± 1.446
1900
1880
1860
1840
1820
1800
1780

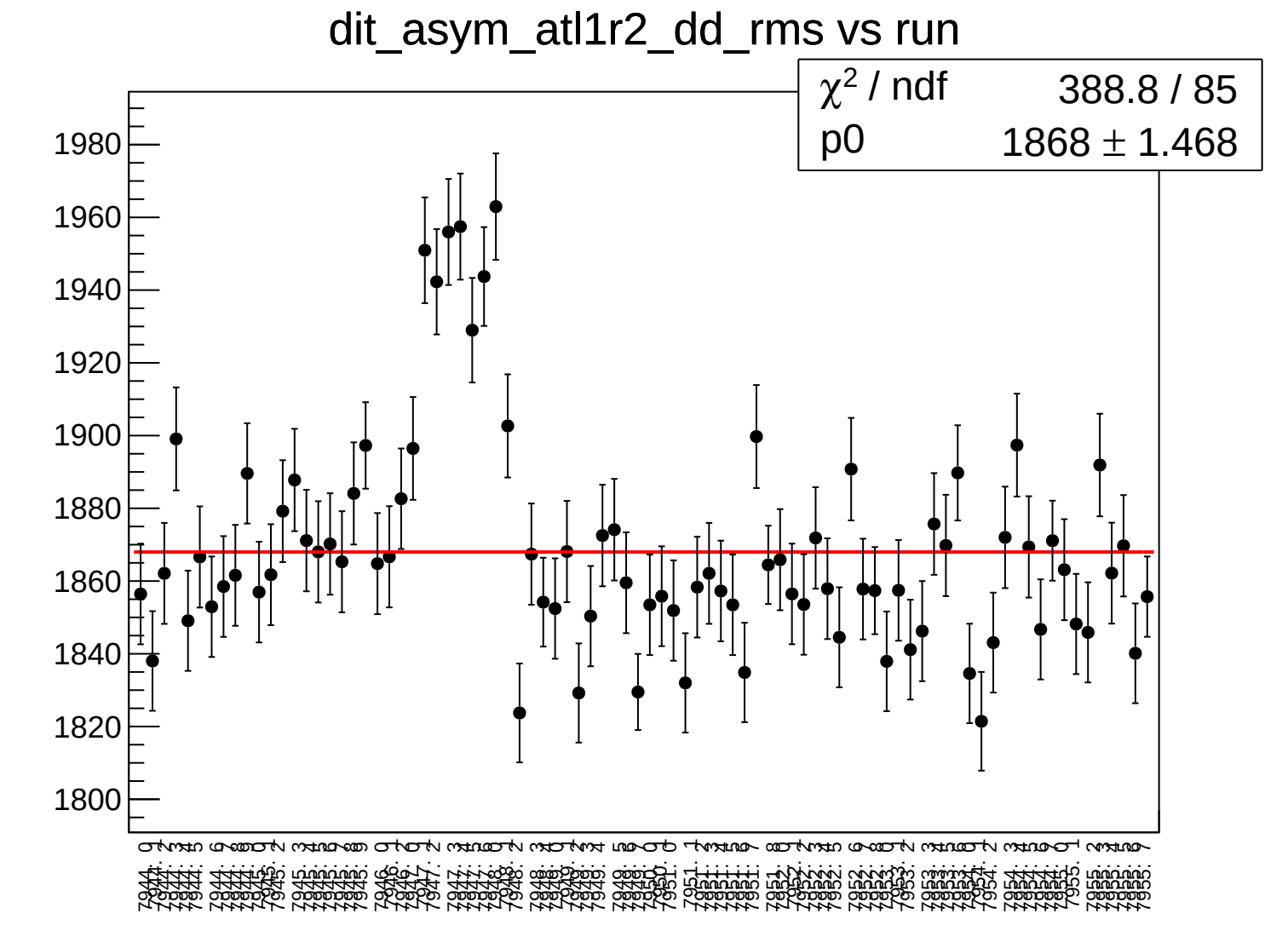

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.2 / 85
p0 3216 ± 7508
200
100
0
−100
−200
−300
pull
Entries 86
Mean −256.8
Std Dev 0
2
1
0
−1
−2
−3

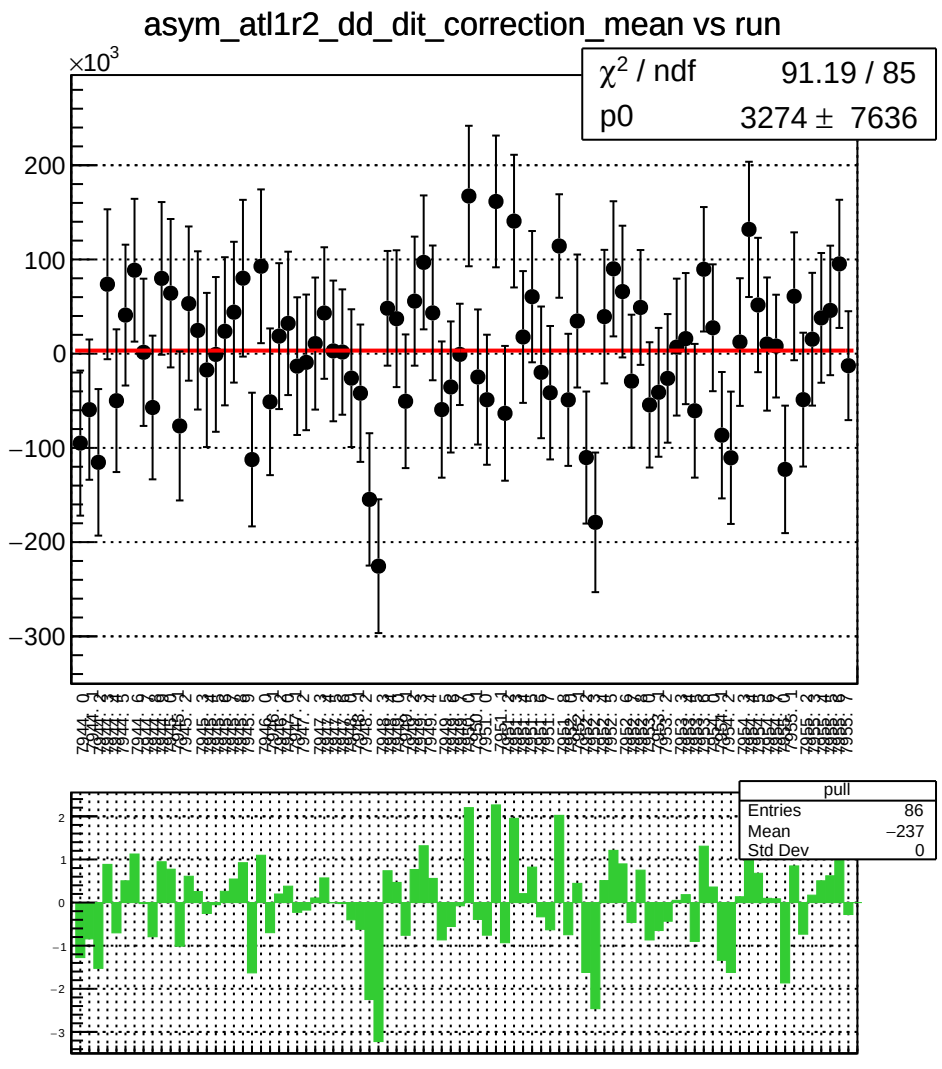

pull1D
Entries 86
Mean −0.005366
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

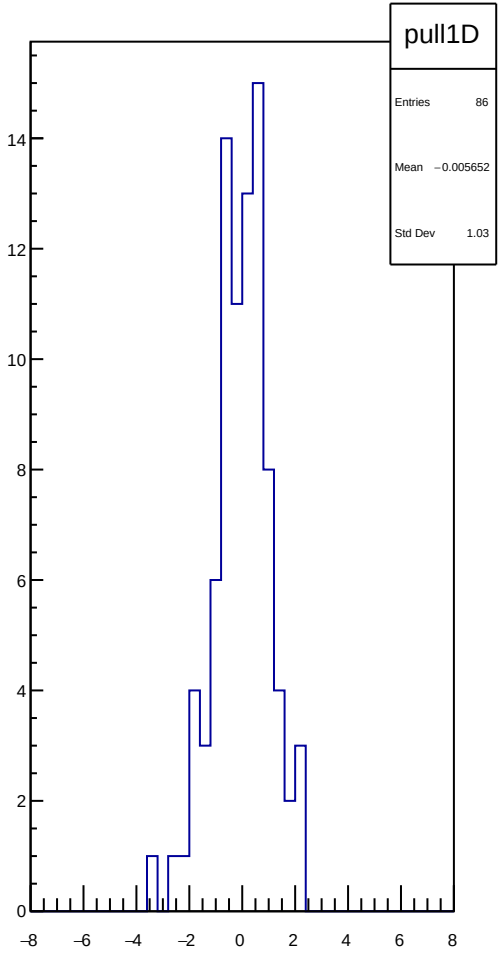

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4495 / 85
p0 6746 ± 5.309
7800
7600
7400
7200
7000
6800
6600
6400
6200

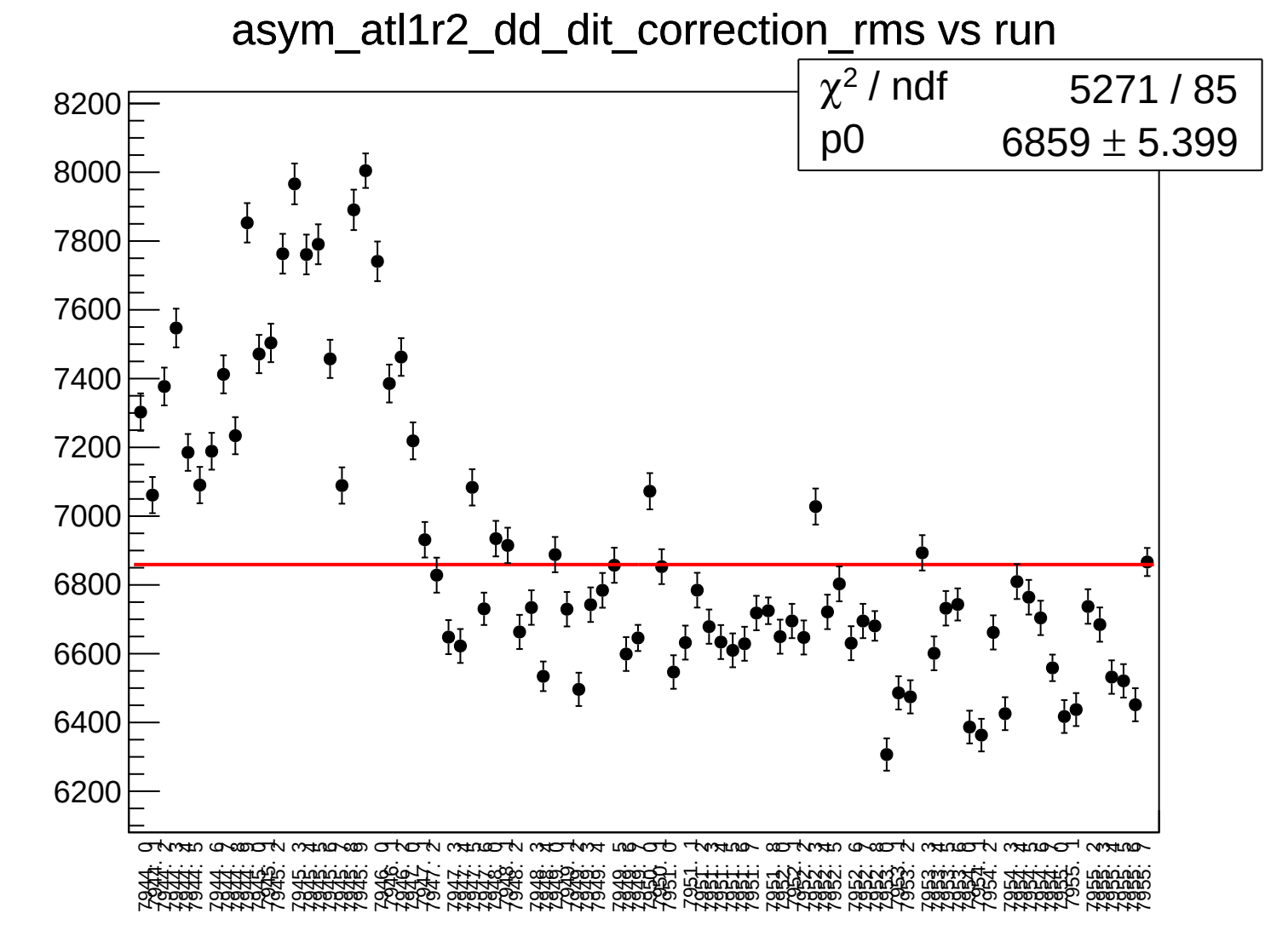

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 71.18 / 85
p0 745.7 ± 2076
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 66.84
Std Dev 0
2
1
0
−1
−2

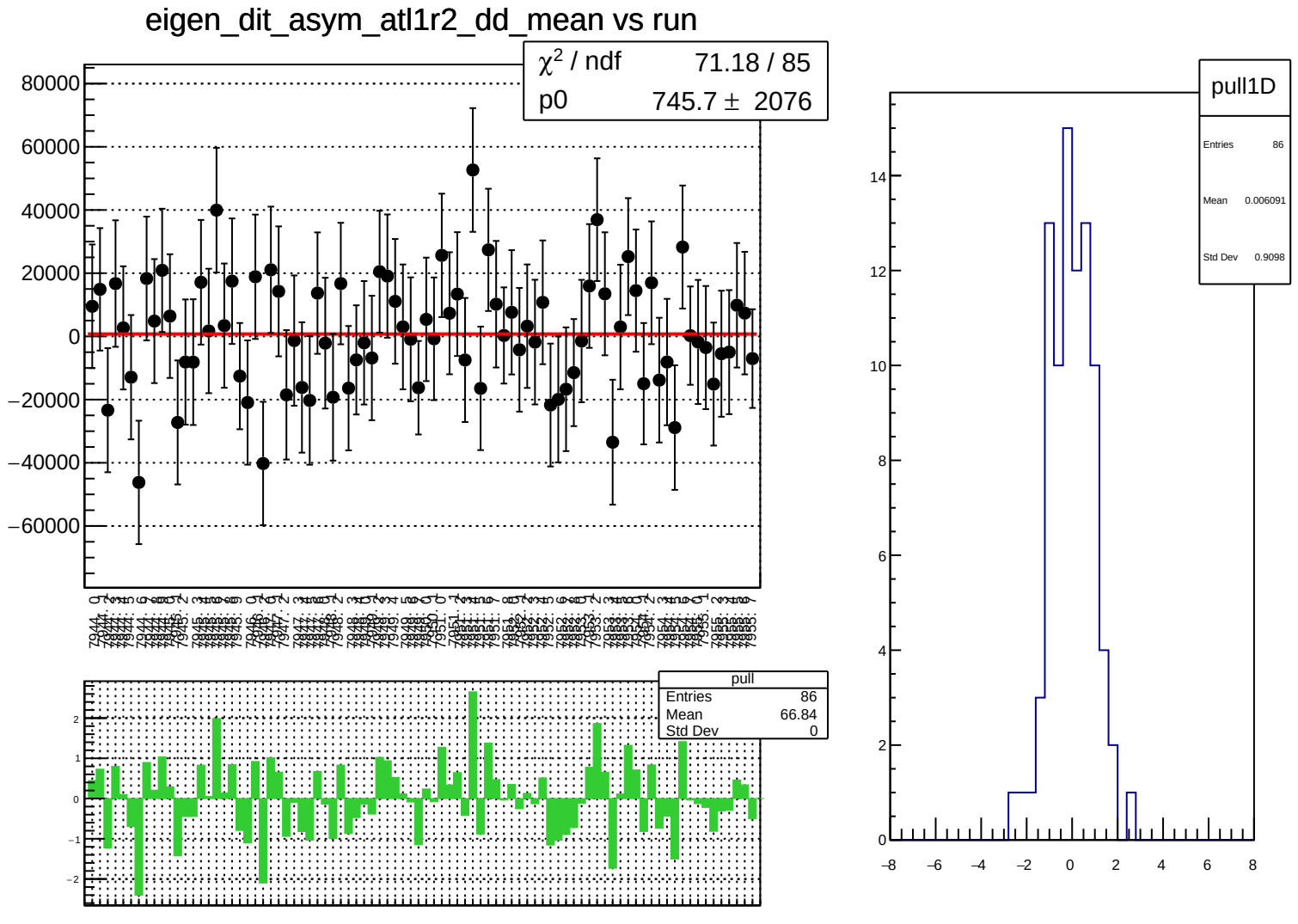

pull1D
Entries 86
Mean 0.006091
Std Dev 0.9098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

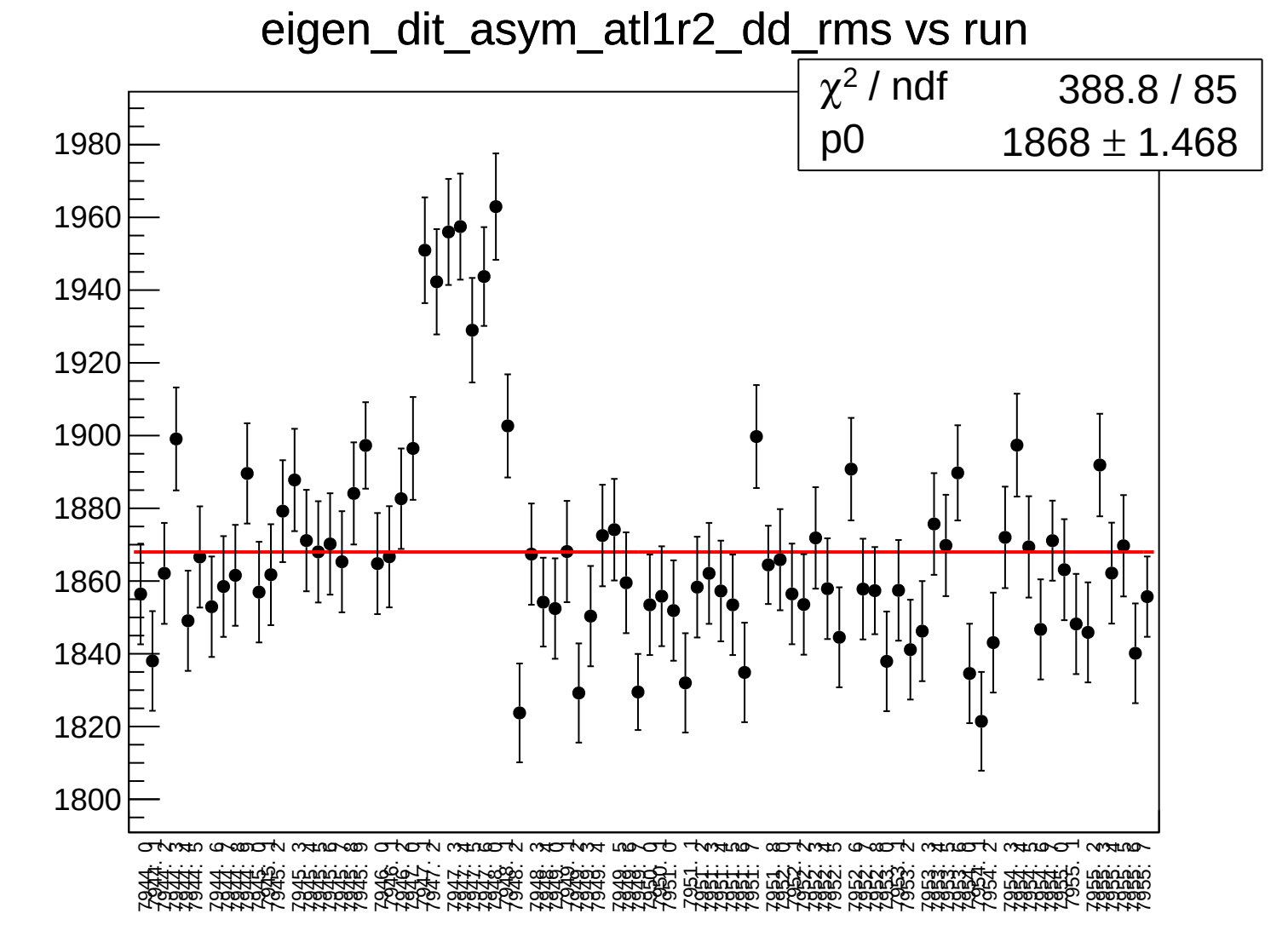

dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 388.8 / 85
p0 1868 ± 1.468
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800

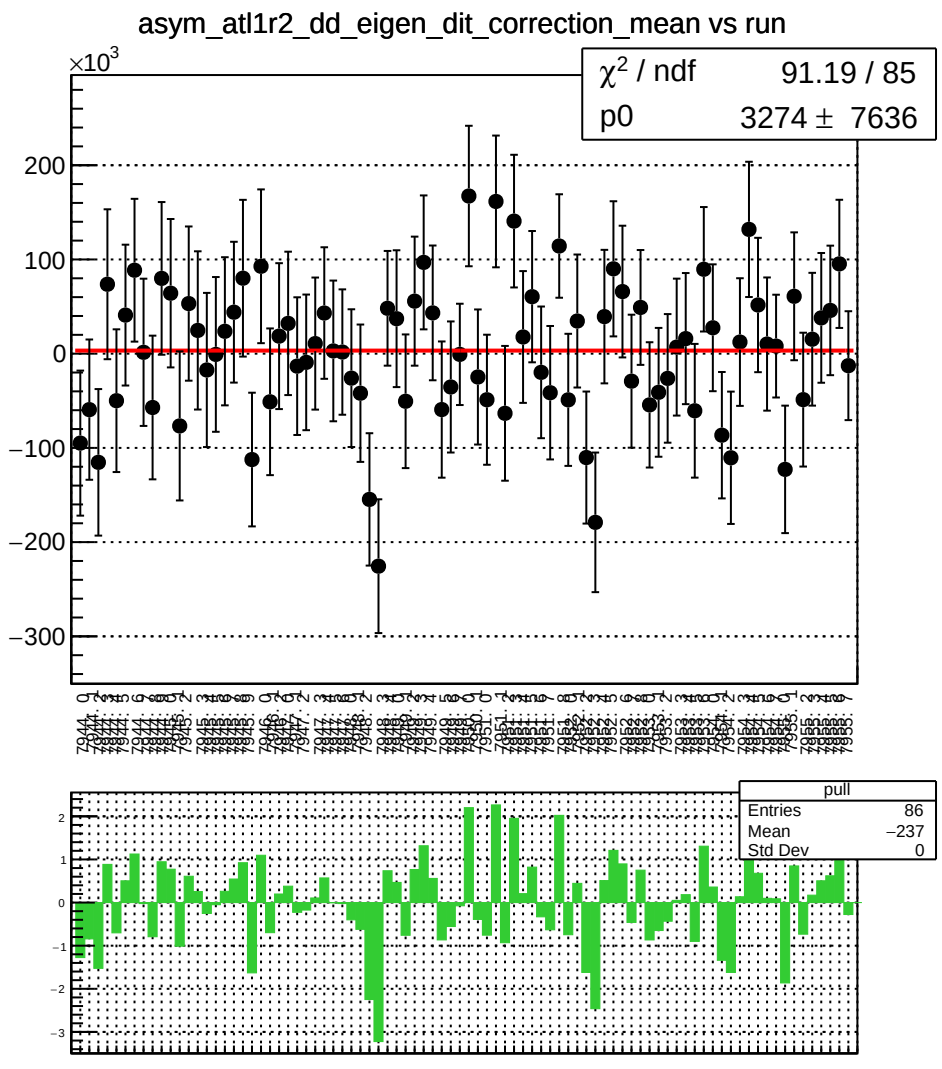

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 91.19 / 85
p0 3274 ± 7636
200
100
0
−100
−200
−300
pull
Entries 86
Mean −237
Std Dev 0
2
1
0
−1
−2
−3

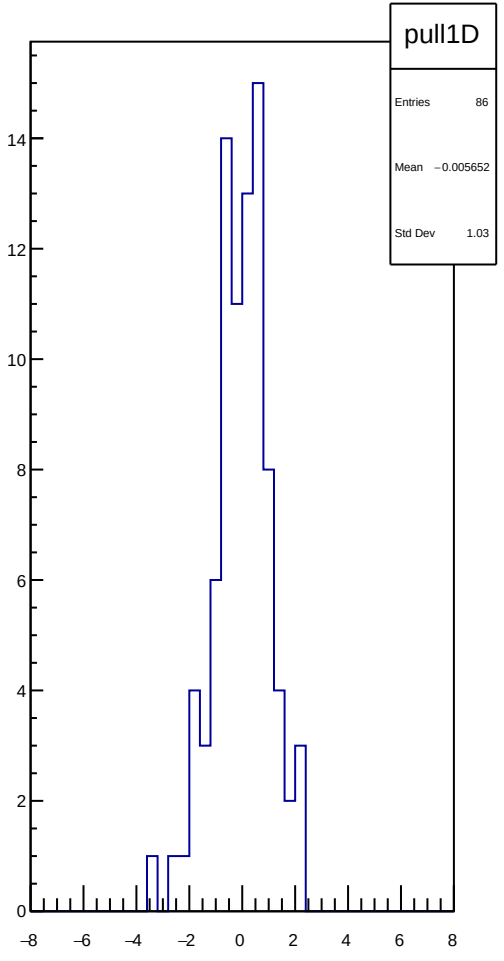

pull1D
Entries 86
Mean −0.005652
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

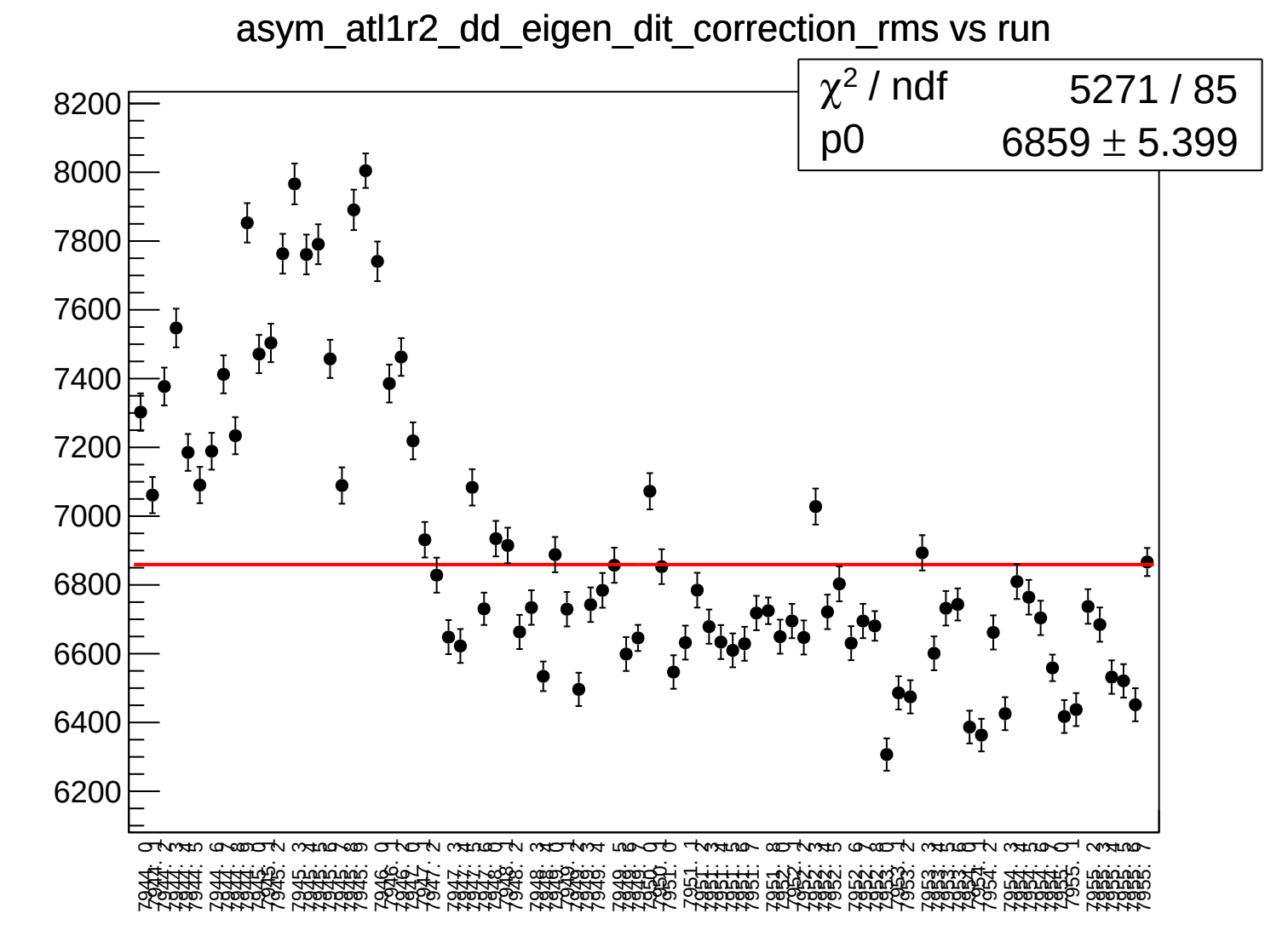

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 5271 / 85
p0 6859 ± 5.399
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

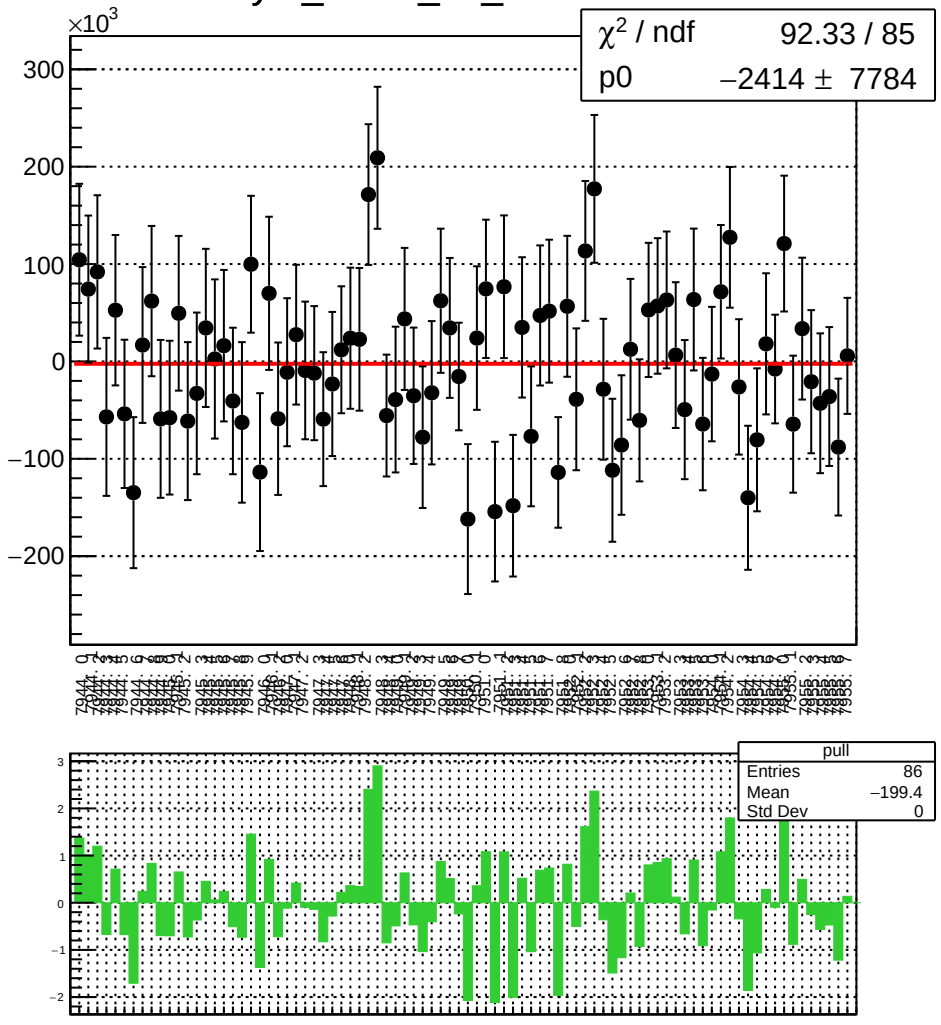

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 71.18 / 85
p0 745.7 ± 2076
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 66.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.006091
Std Dev 0.9098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

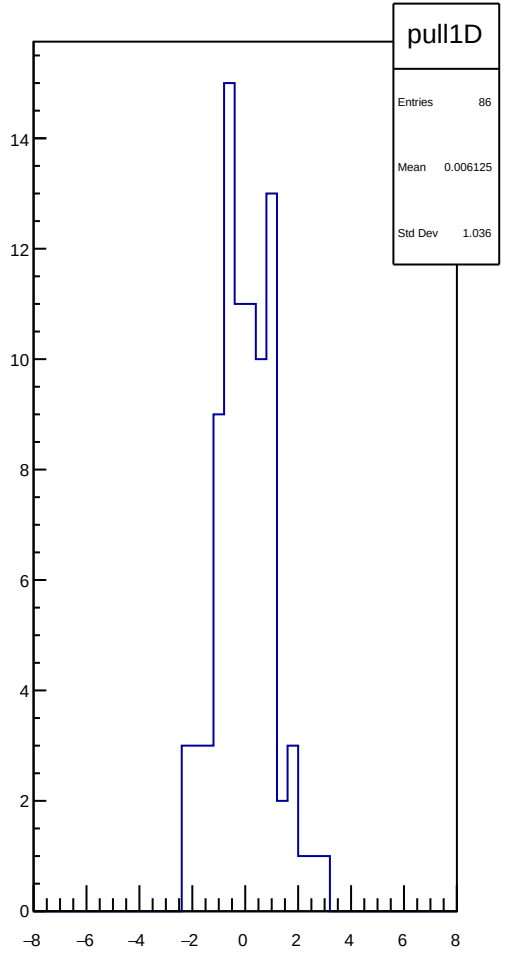

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 388.8 / 85
p0 1868 ± 1.468
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800

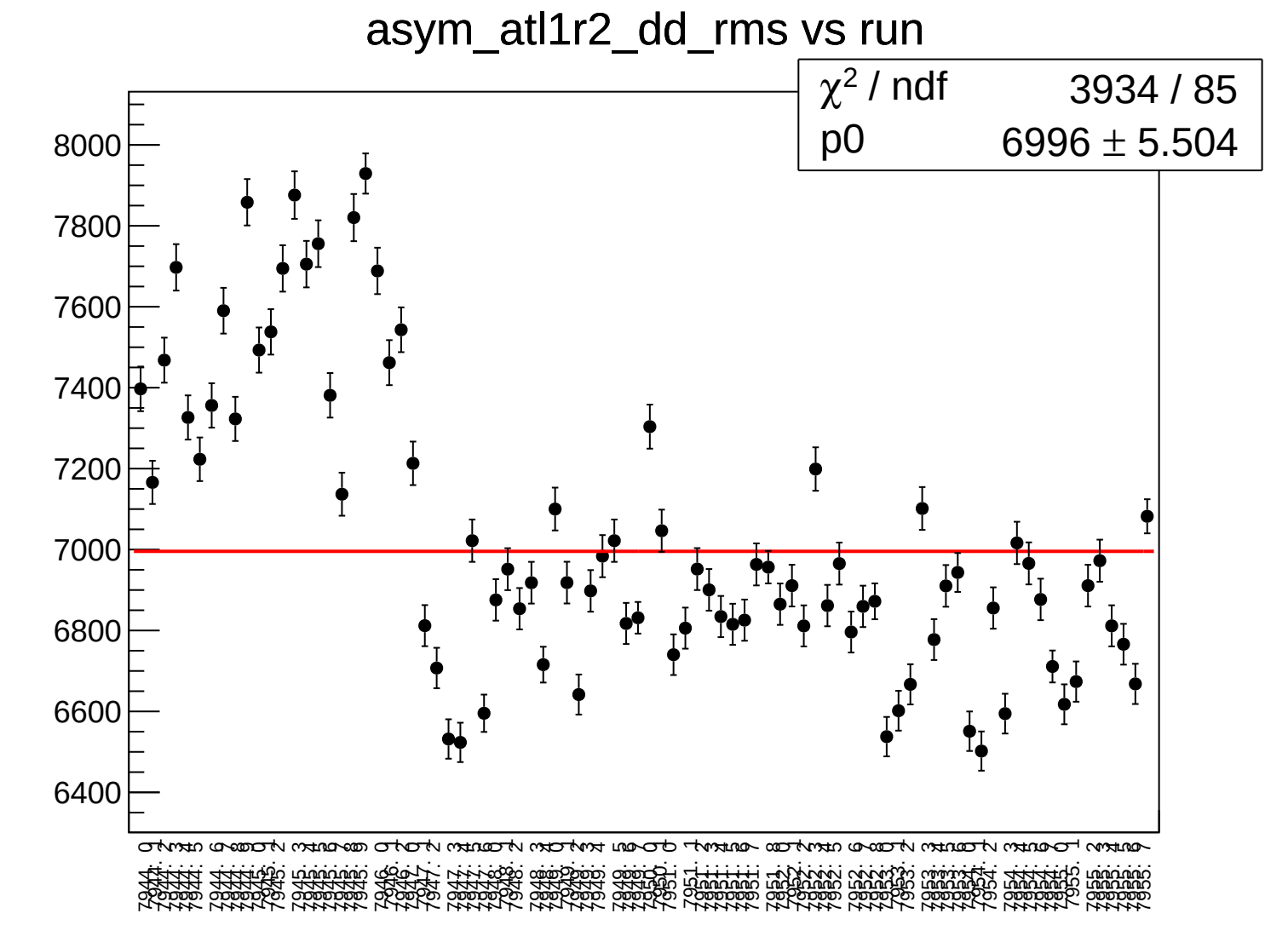

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.19 / 85
p0 3274 ± 7636
200
100
0
−100
−200
−300
pull
Entries 86
Mean −237
Std Dev 0
2
1
0
−1
−2
−3

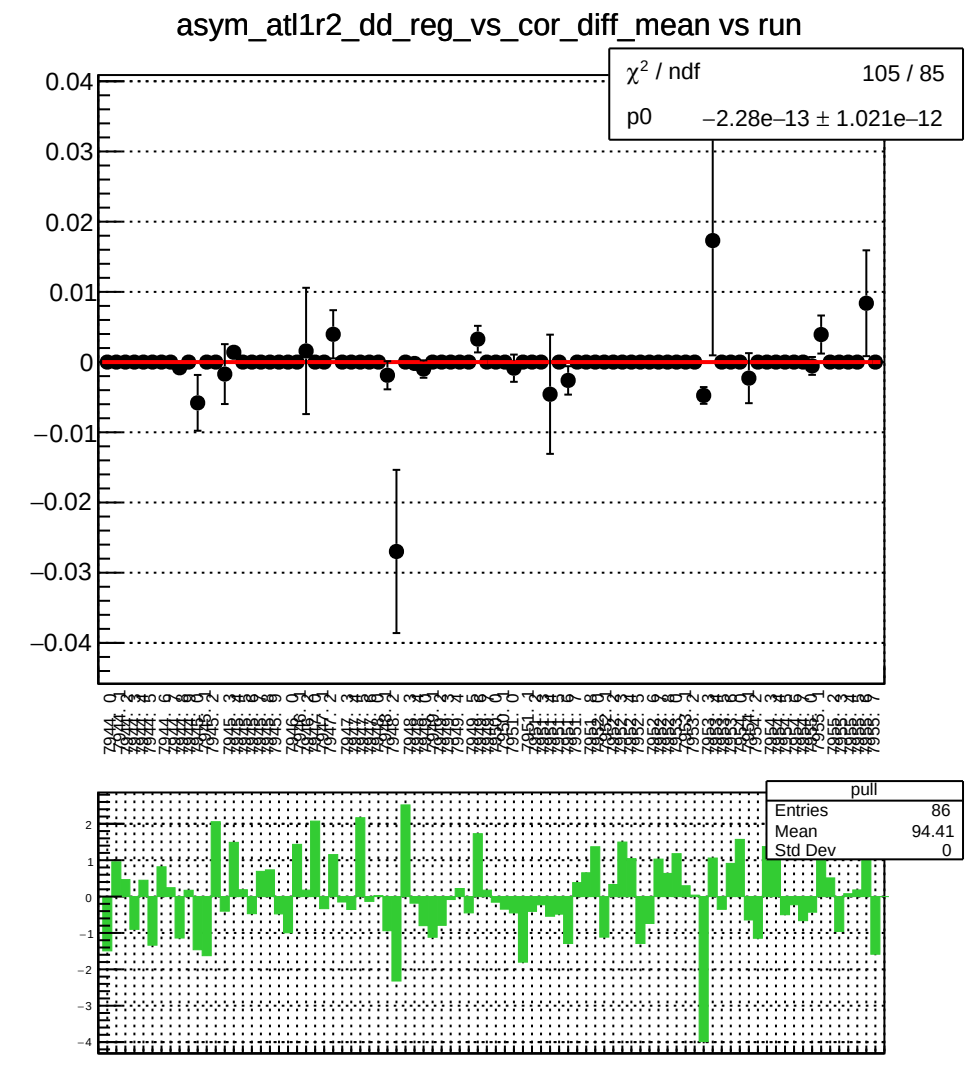

pull1D
Entries 86
Mean −0.005652
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

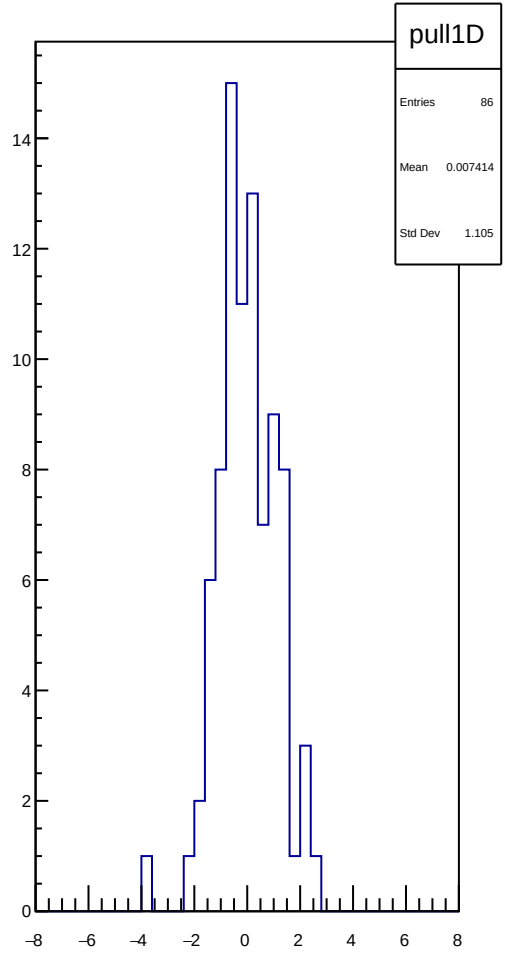

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5271 / 85
p0 6859 ± 5.399
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

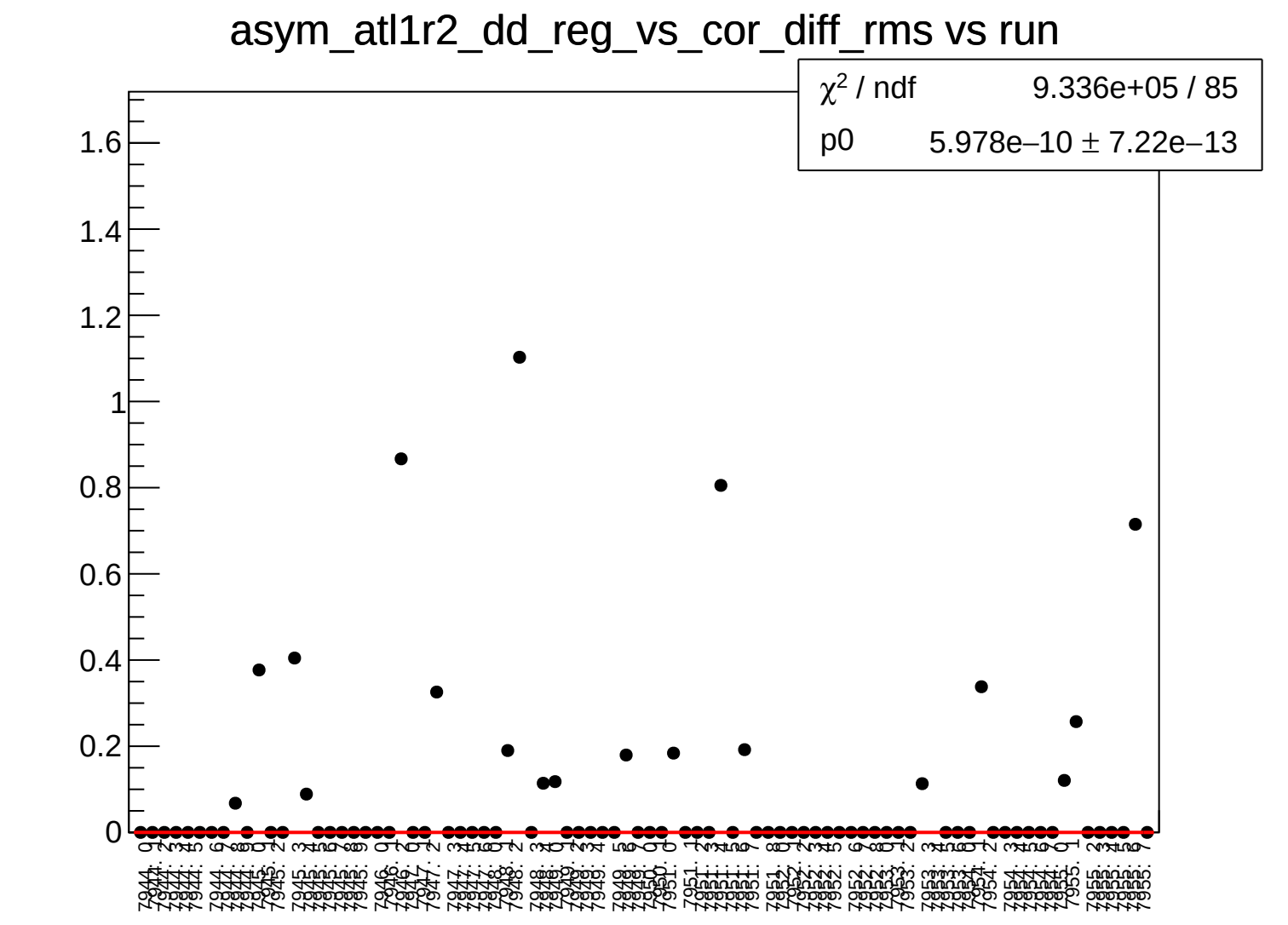

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 92.33 / 85
p0 −2414 ± 7784
300
200
100
0
−100
−200
pull
Entries 86
Mean −199.4
Std Dev 0
3
2
1
0
−1
−2

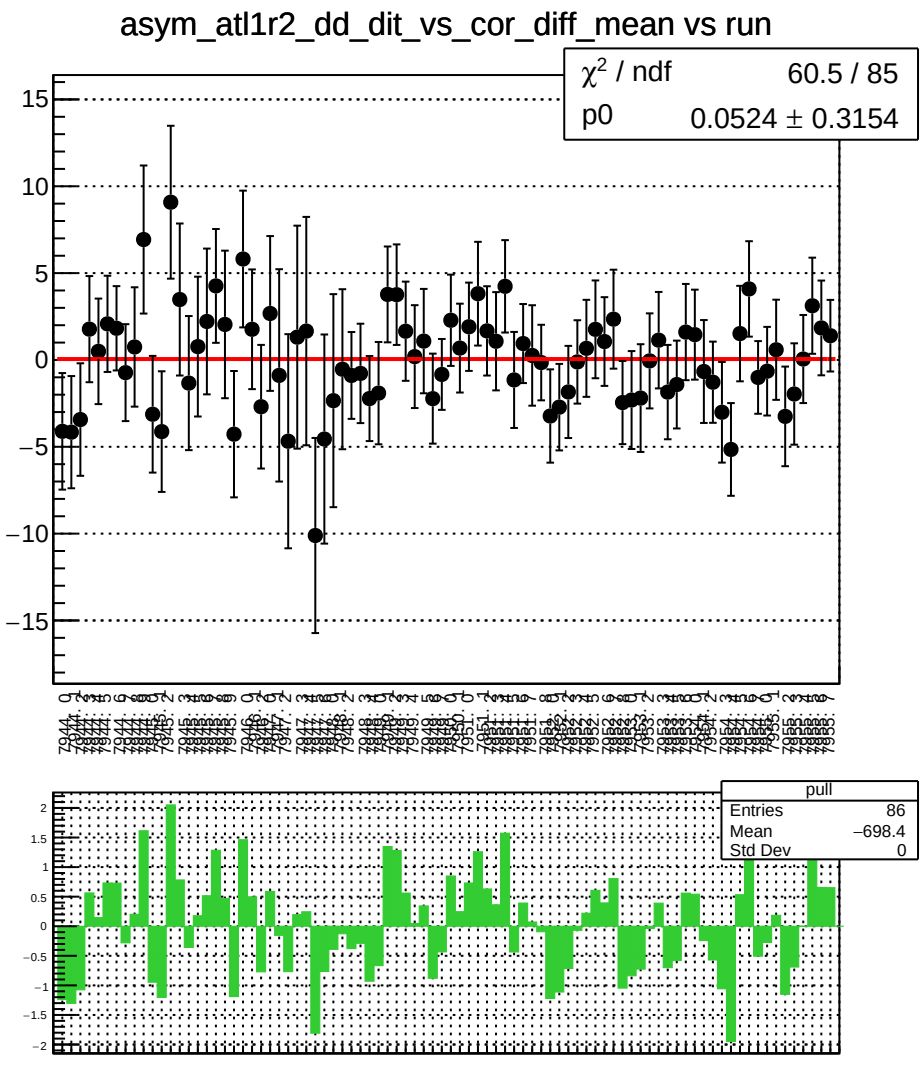

pull1D
Entries 86
Mean 0.006125
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

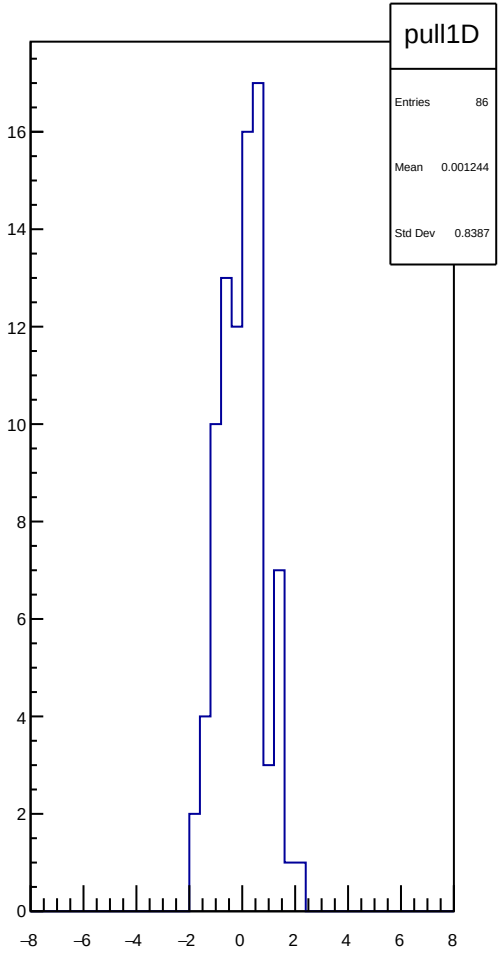

asym_atl1r2_dd_rms vs run
χ^2 / ndf 3934 / 85
p0 6996 ± 5.504
8000
7800
7600
7400
7200
7000
6800
6600
6400

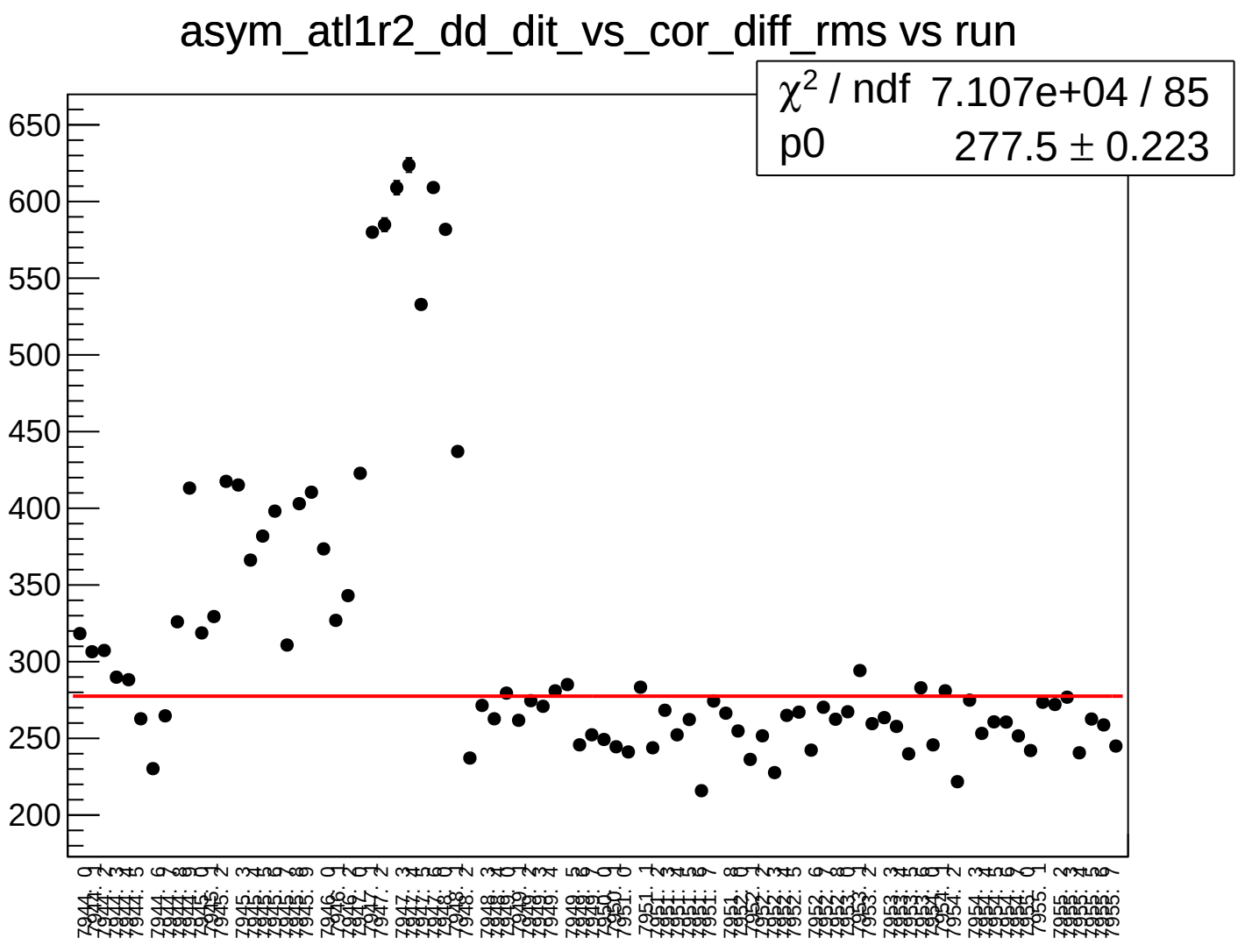

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105 / 85
p0 −2.28e−13 ± 1.021e−12
pull
Entries 86
Mean 94.41
Std Dev 0

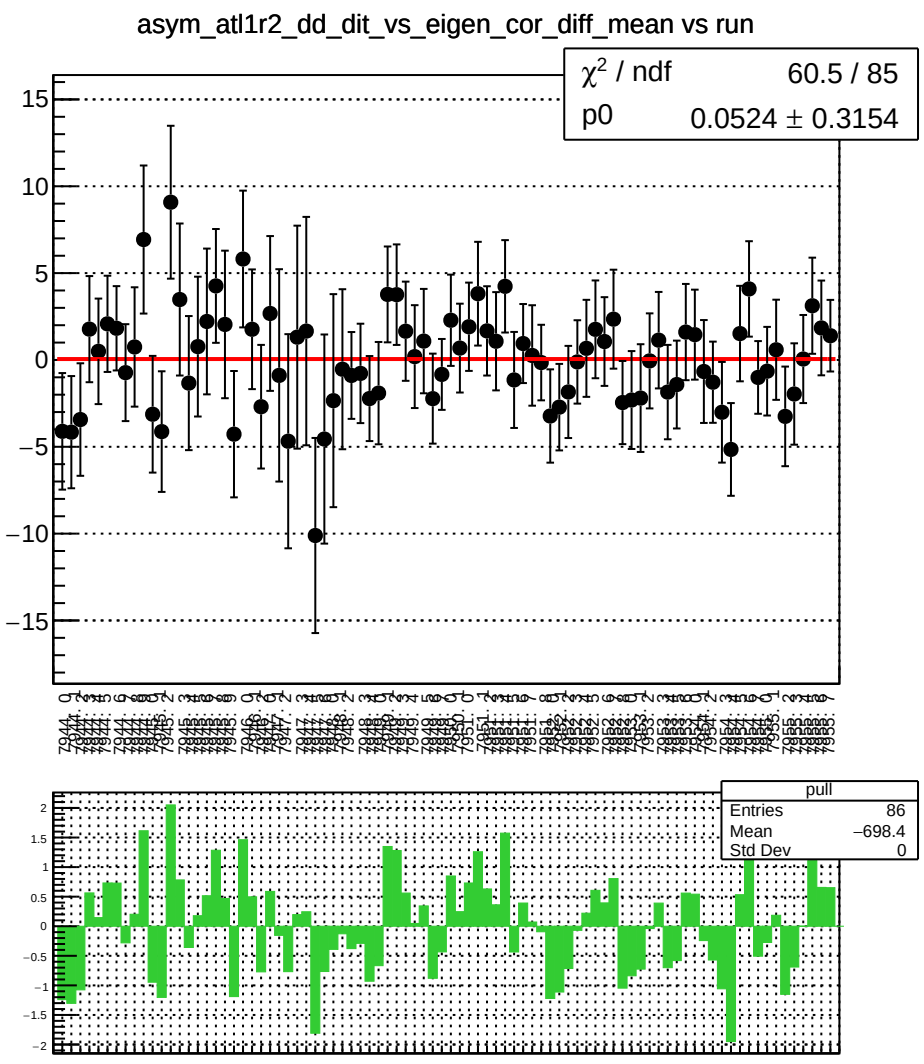

pull1D
Entries 86
Mean 0.007414
Std Dev 1.105

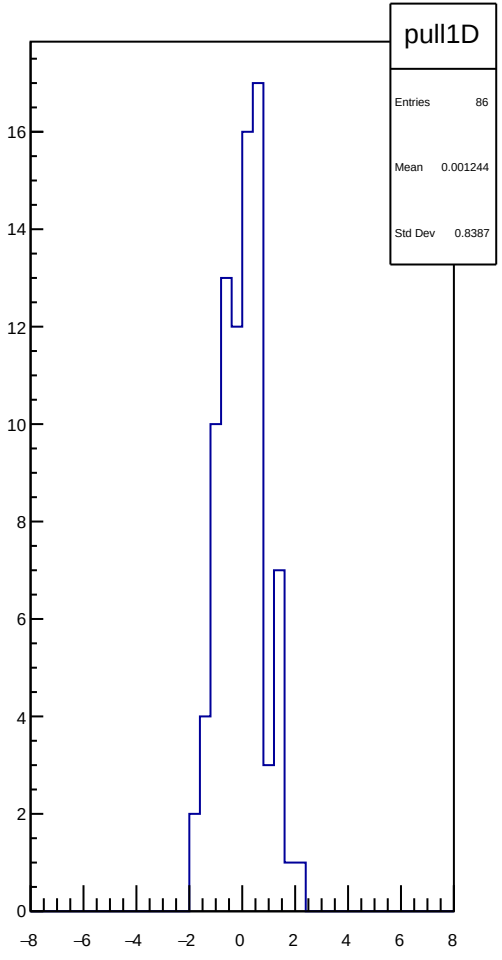

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.336e+05 / 85
p0 5.978e−10 ± 7.22e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

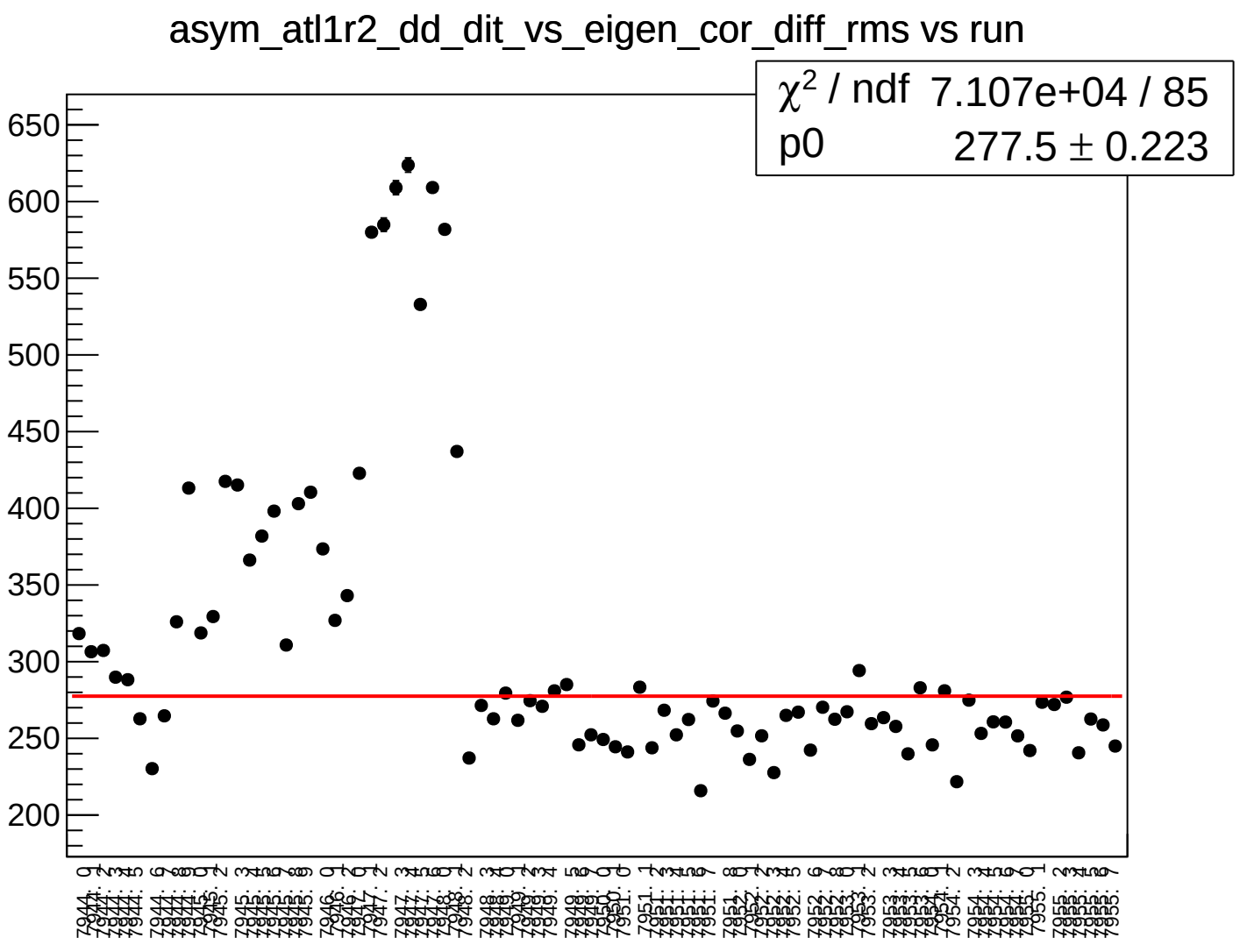

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 60.5 / 85
p0 0.0524 ± 0.3154
pull
Entries 86
Mean −698.4
Std Dev 0

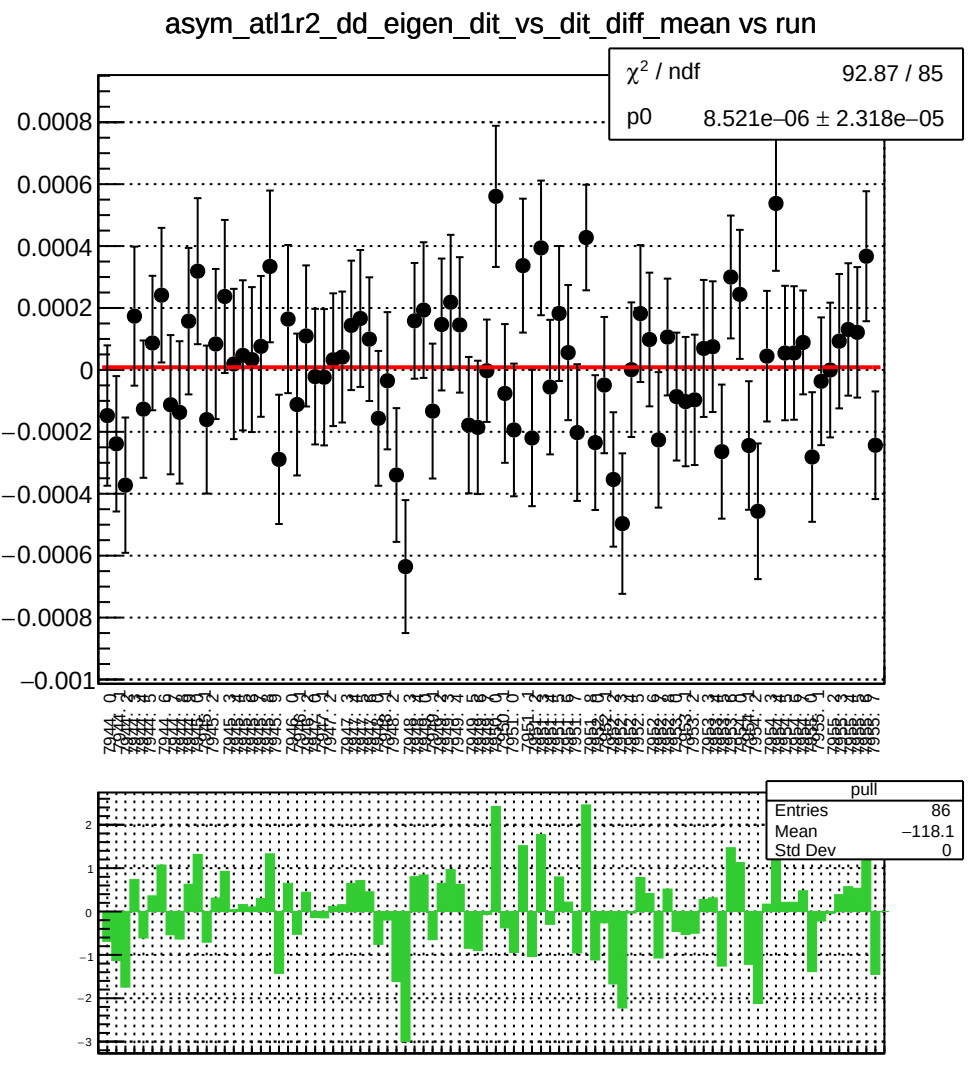

pull1D
Entries 86
Mean 0.001244
Std Dev 0.8387

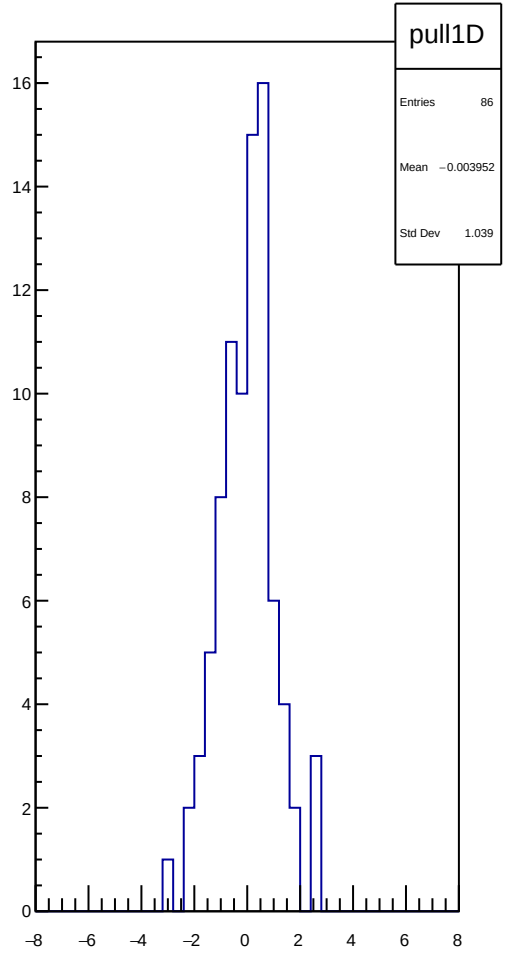

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.107e+04 / 85
p0 277.5 ± 0.223
650
600
550
500
450
400
350
300
250
200

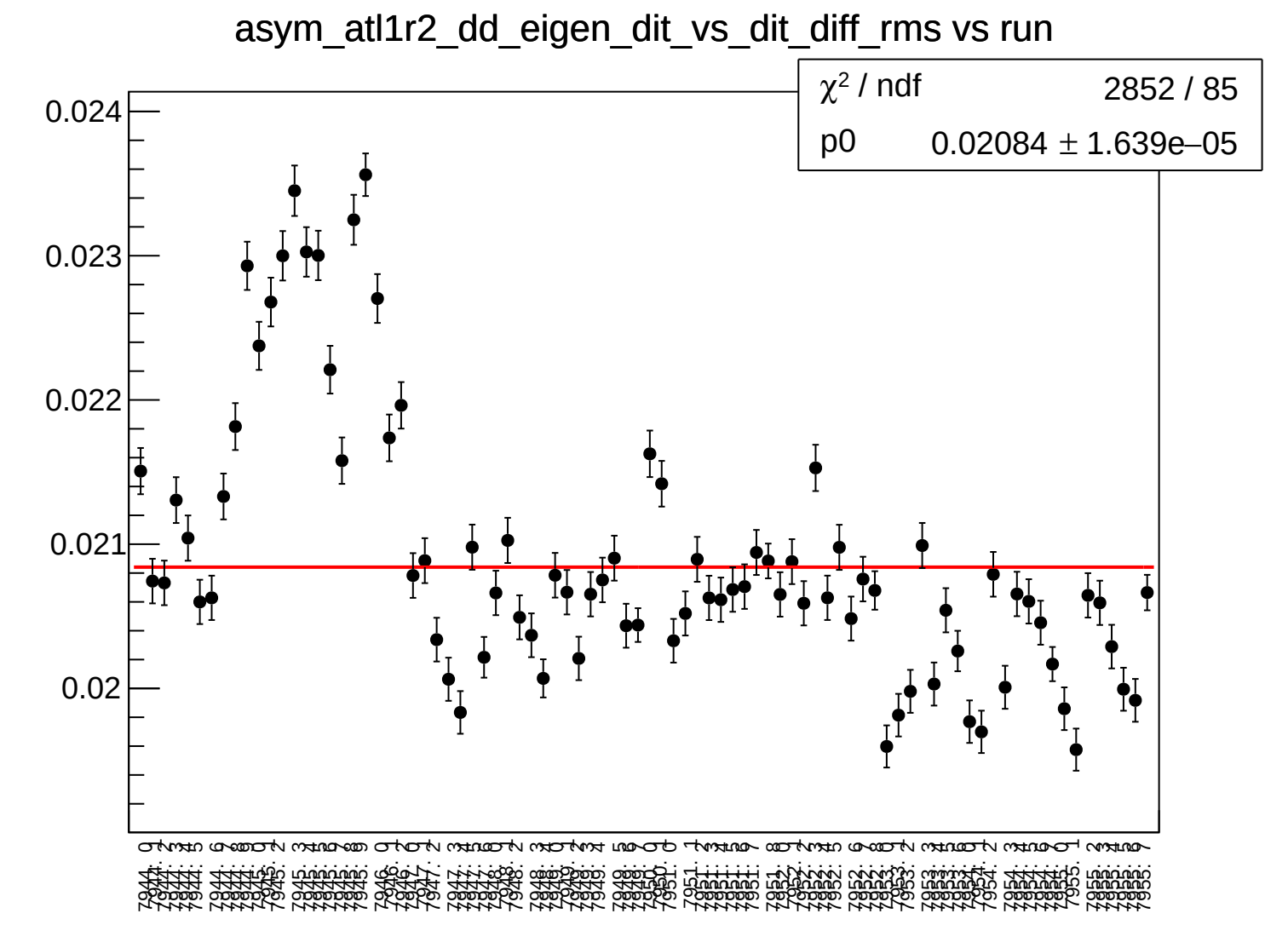

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.5 / 85
p0 0.0524 ± 0.3154
pull
Entries 86
Mean −698.4
Std Dev 0

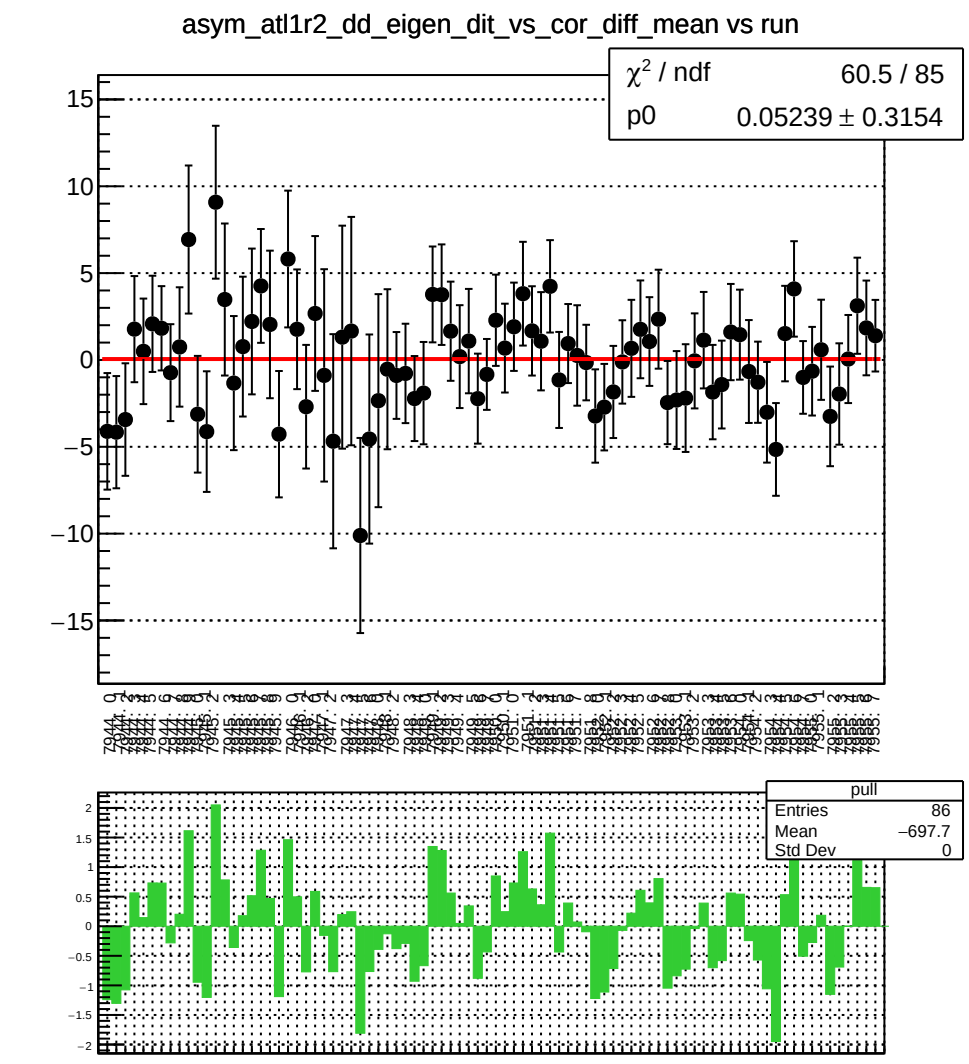

pull1D
Entries 86
Mean 0.001244
Std Dev 0.8387

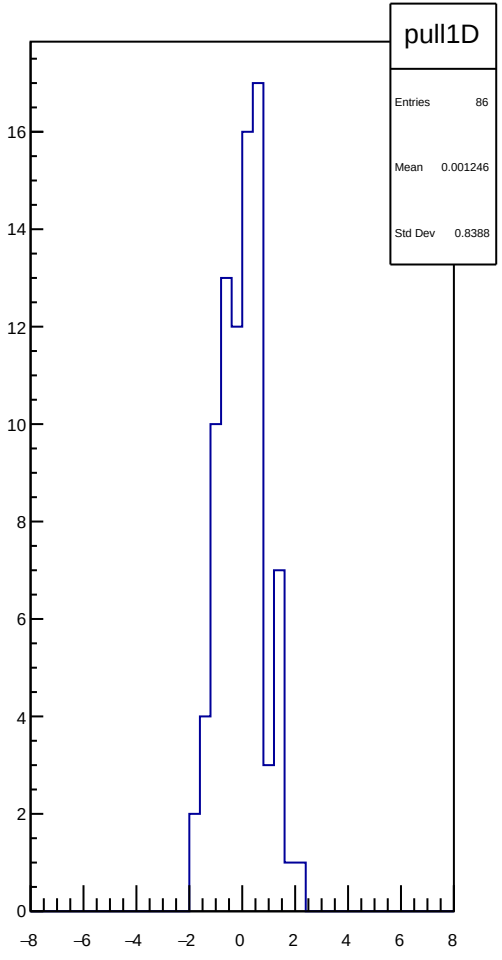

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.107e+04 / 85
p0 277.5 ± 0.223
650
600
550
500
450
400
350
300
250
200

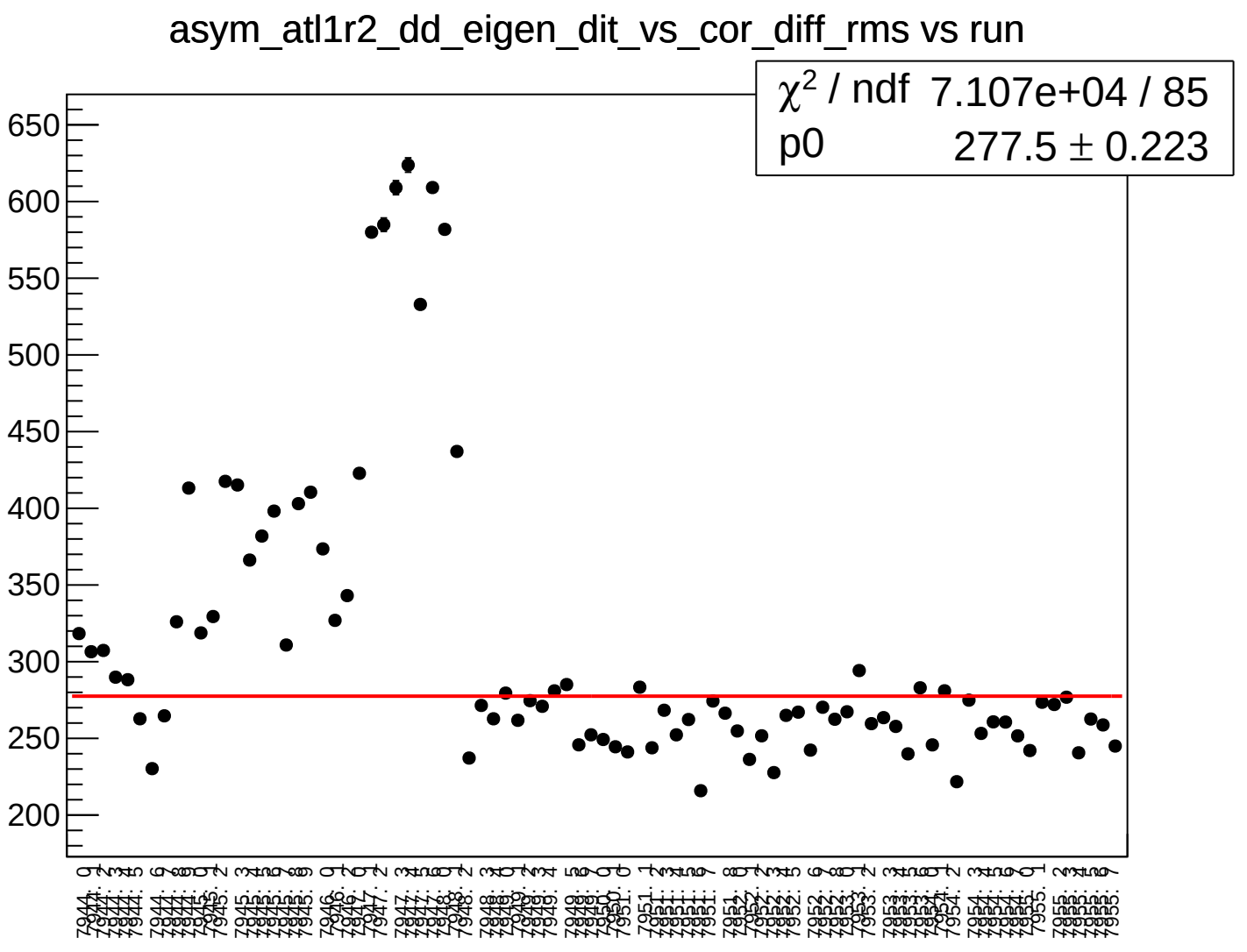

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 92.87 / 85
p0 8.521e−06 ± 2.318e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 86
Mean −118.1
Std Dev 0
2
1
0
−1
−2
−3

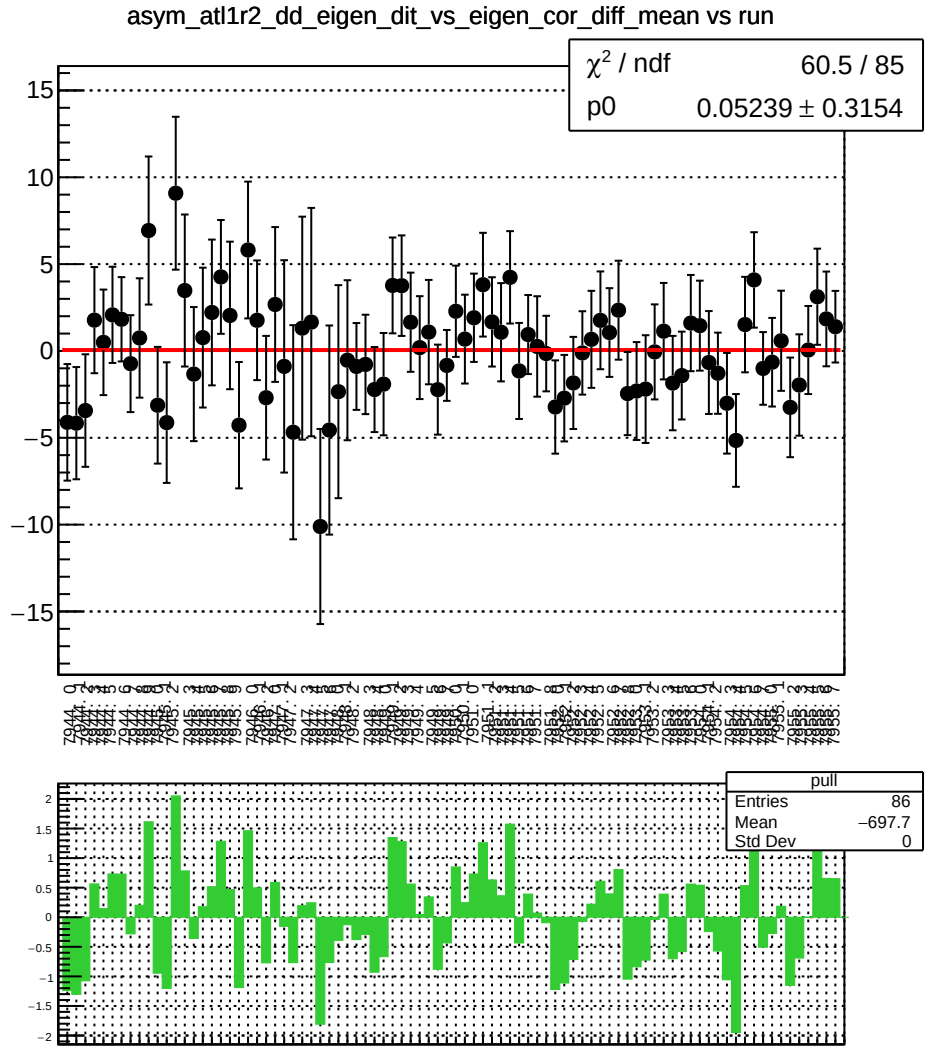

pull1D
Entries 86
Mean −0.003952
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

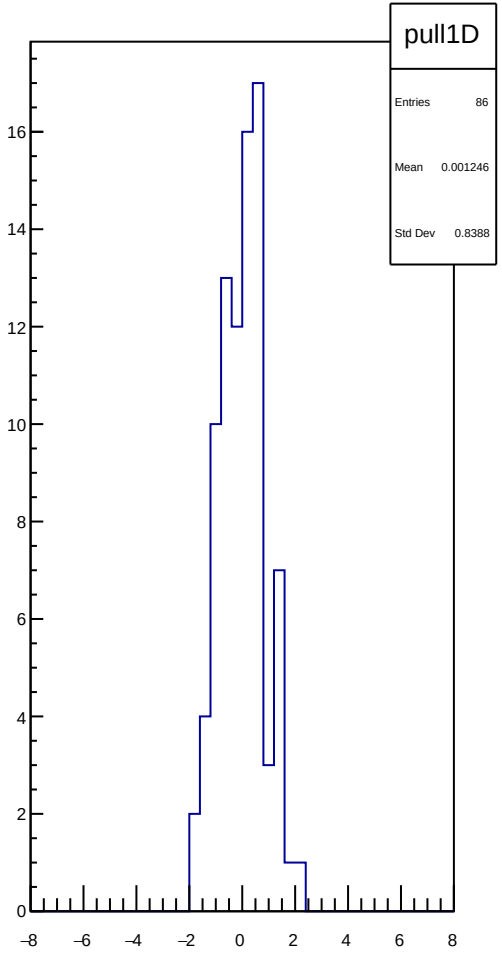

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2852 / 85
p0 0.02084 ± 1.639e−05
0.024
0.023
0.022
0.021
0.02

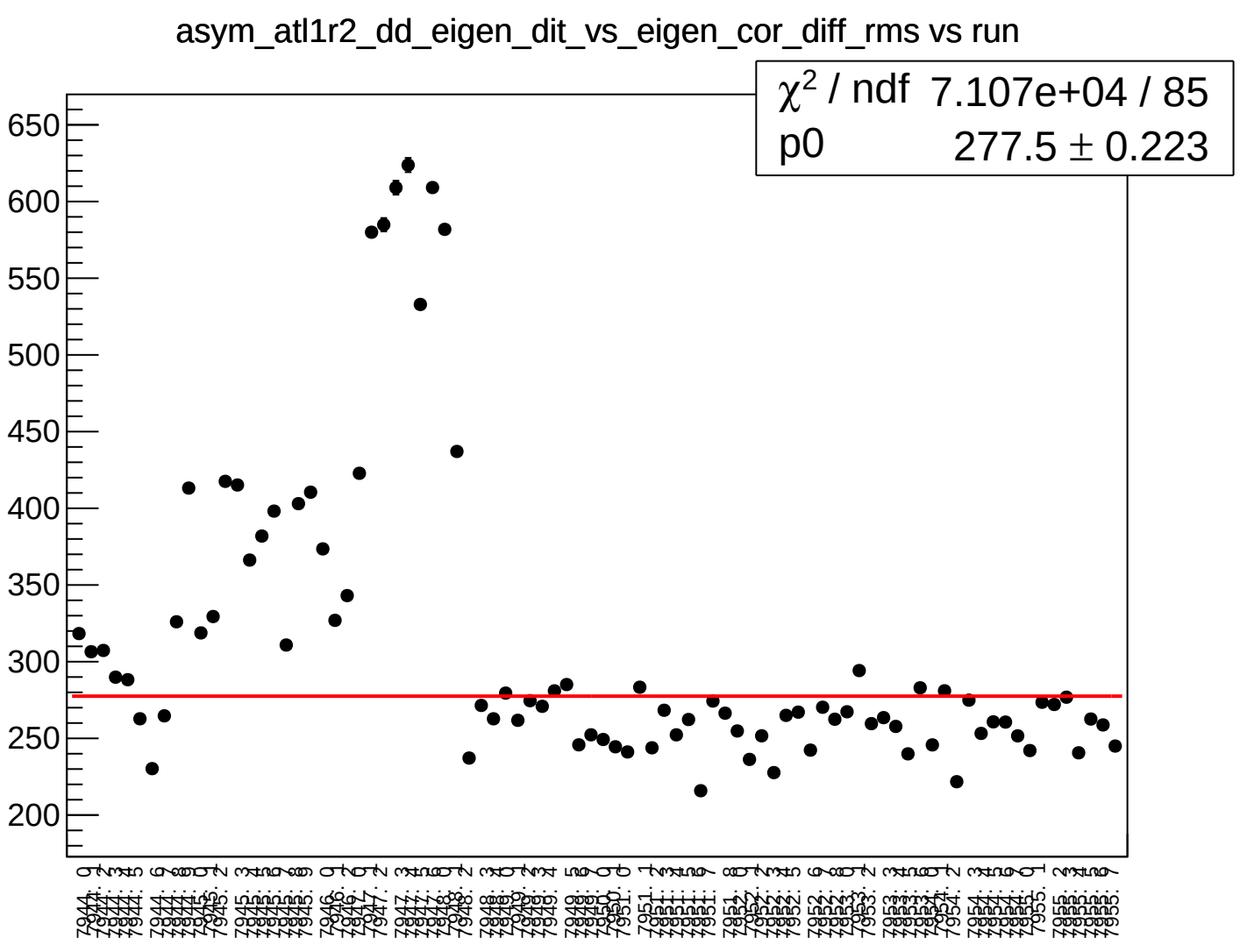

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.5 / 85
p0 0.05239 ± 0.3154
pull
Entries 86
Mean −697.7
Std Dev 0

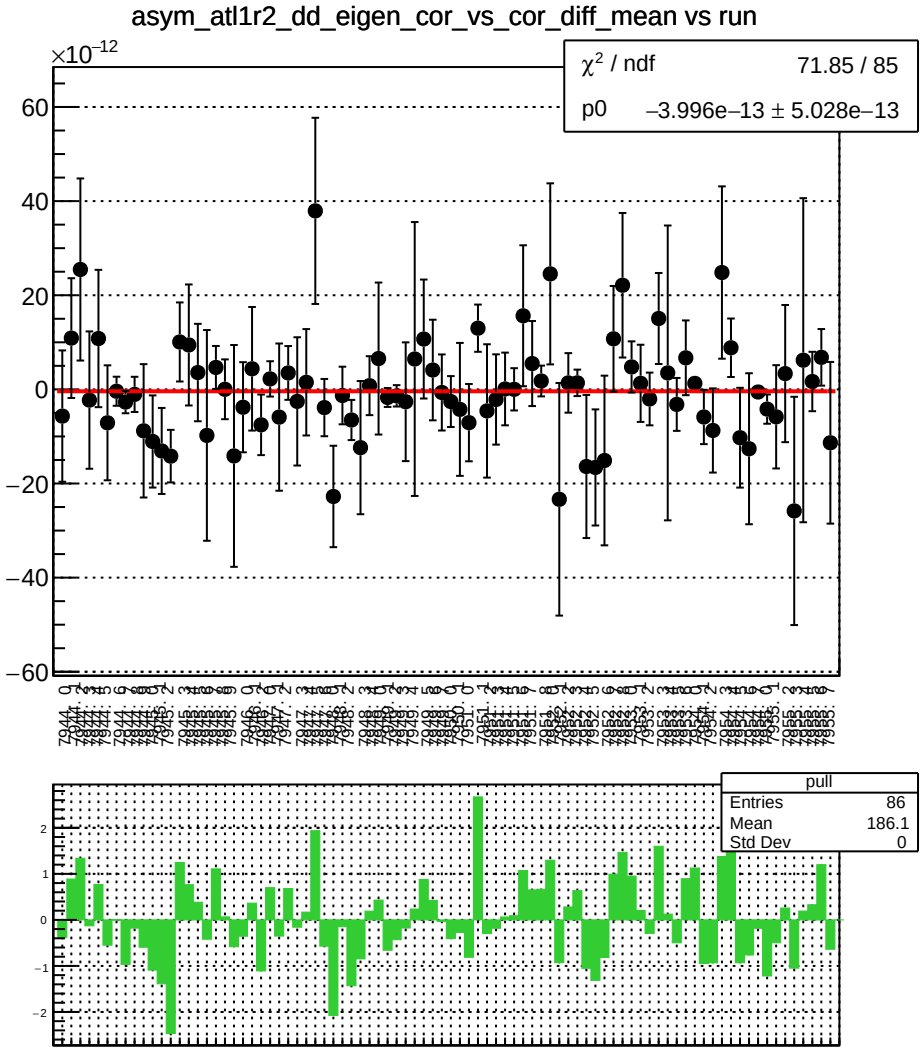

pull1D
Entries 86
Mean 0.001246
Std Dev 0.8388

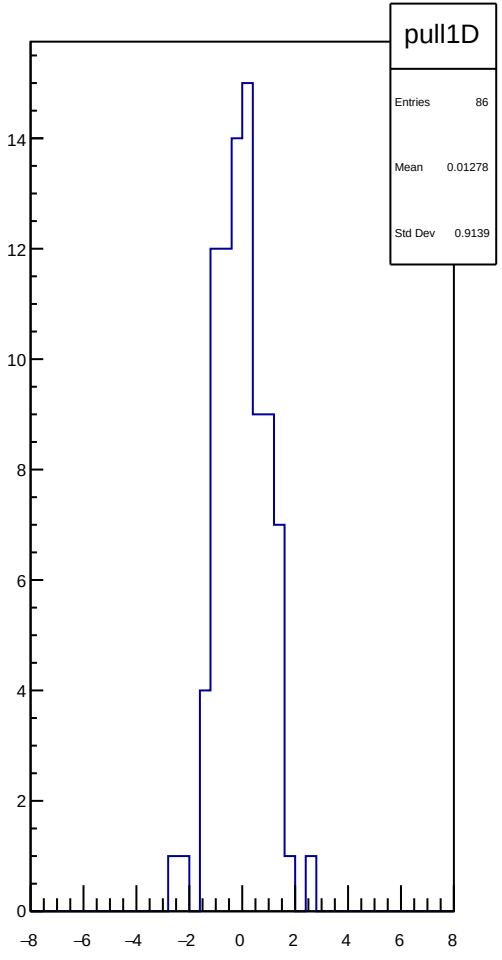

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.107e+04 / 85
p0 277.5 ± 0.223
650
600
550
500
450
400
350
300
250
200

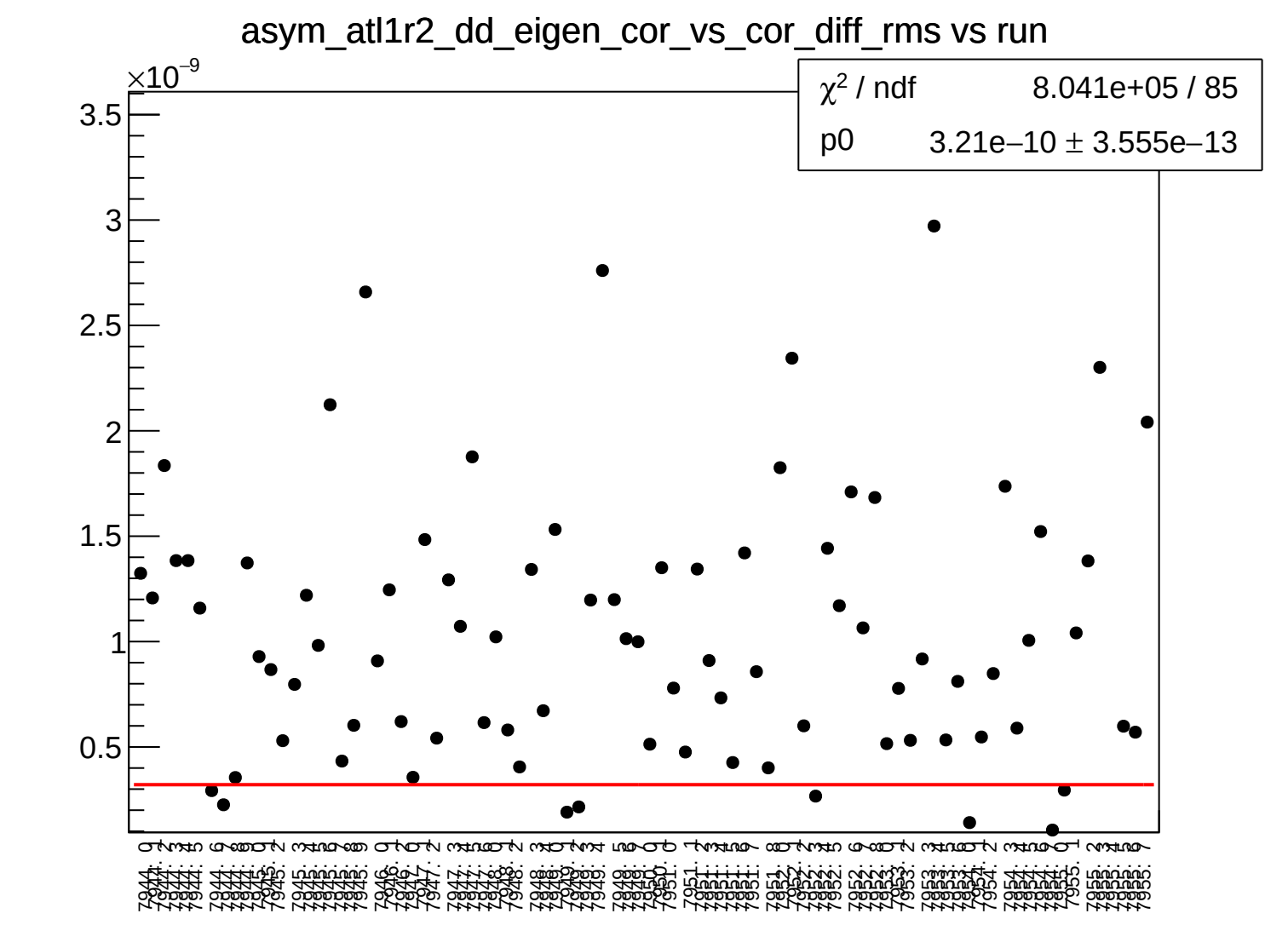

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.5 / 85
p0 0.05239 ± 0.3154
pull
Entries 86
Mean −697.7
Std Dev 0

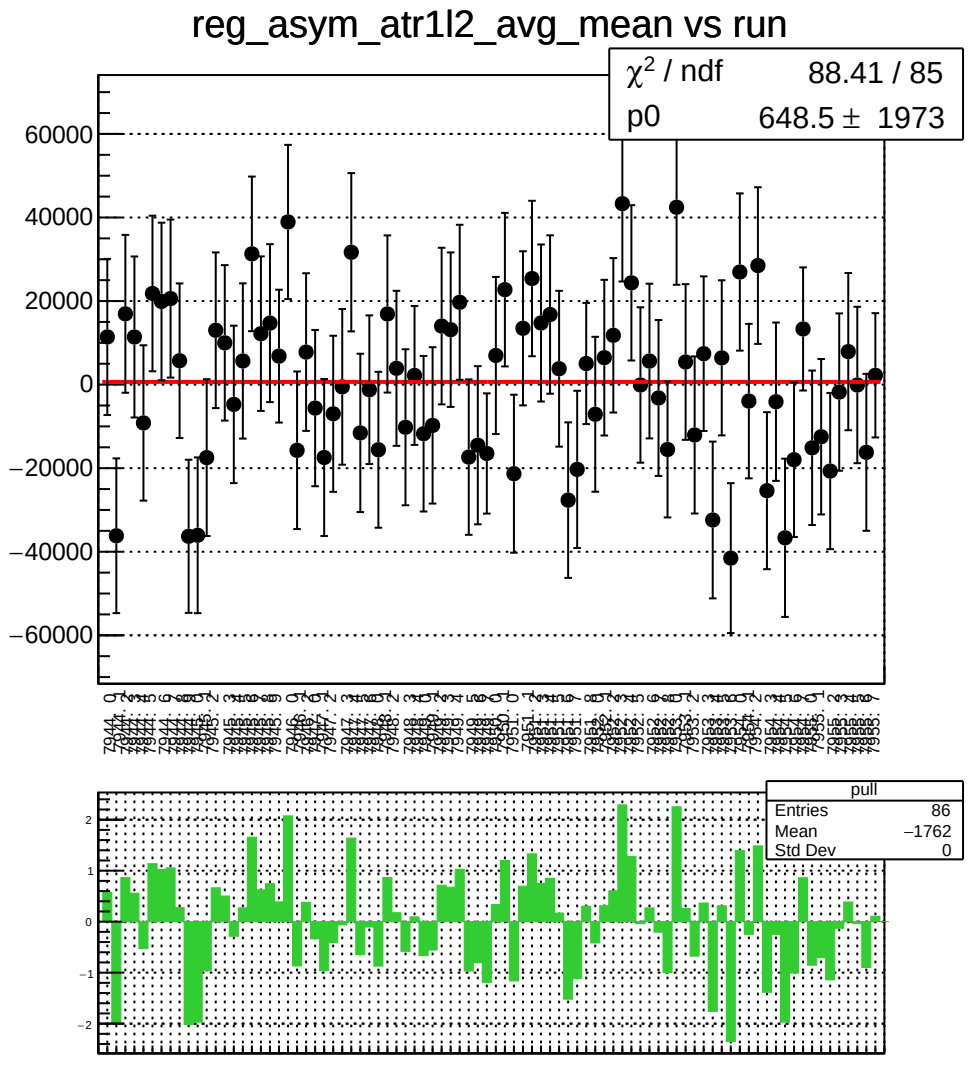

pull1D
Entries 86
Mean 0.001246
Std Dev 0.8388

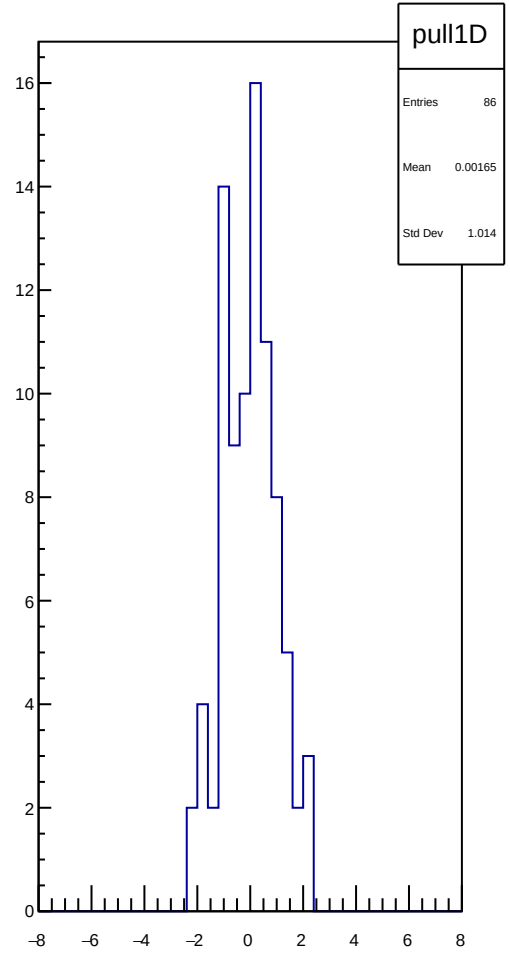

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.107e+04 / 85
p0 277.5 ± 0.223
650
600
550
500
450
400
350
300
250
200

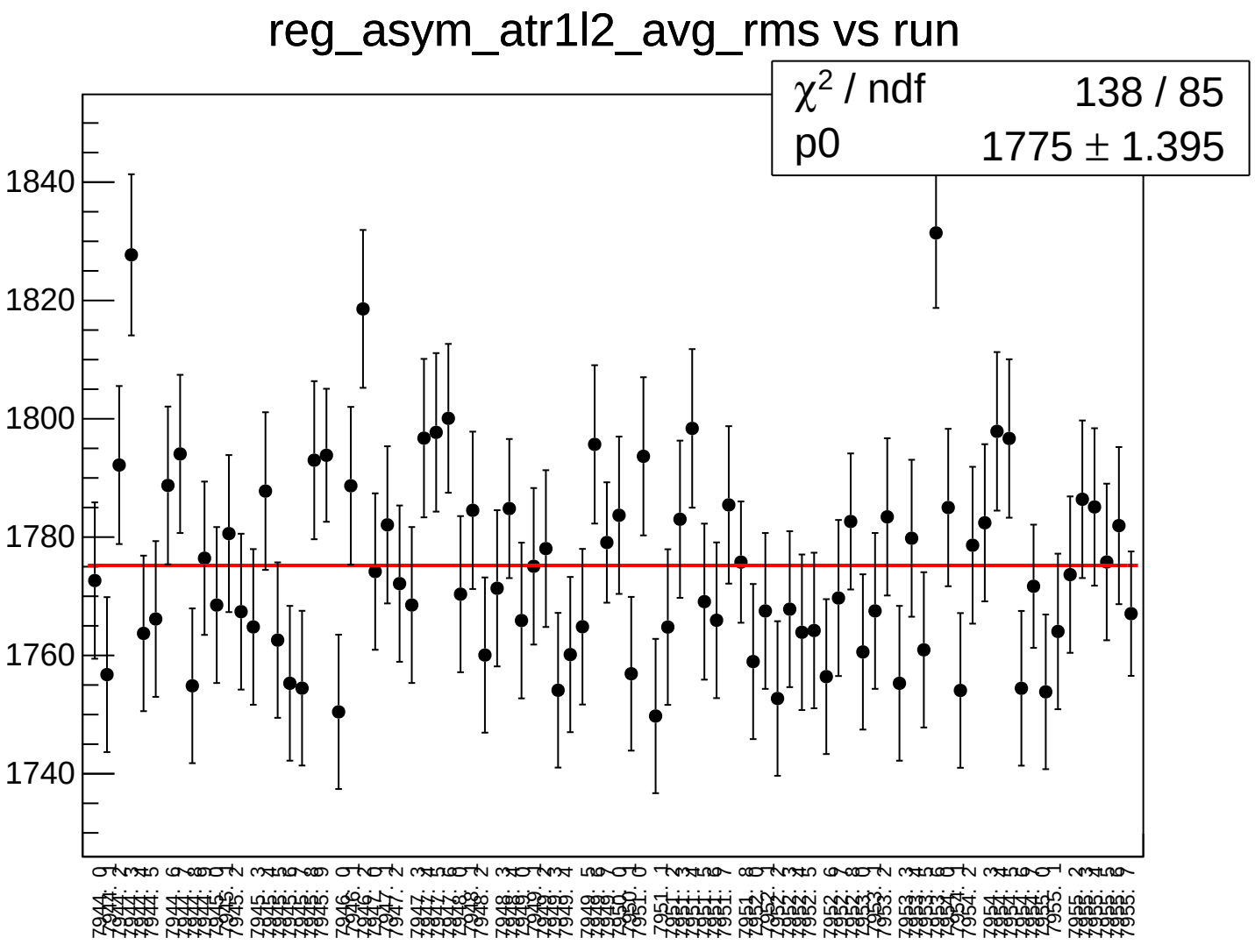

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.85 / 85
p0 −3.996e−13 ± 5.028e−13
pull
Entries 86
Mean 186.1
Std Dev 0

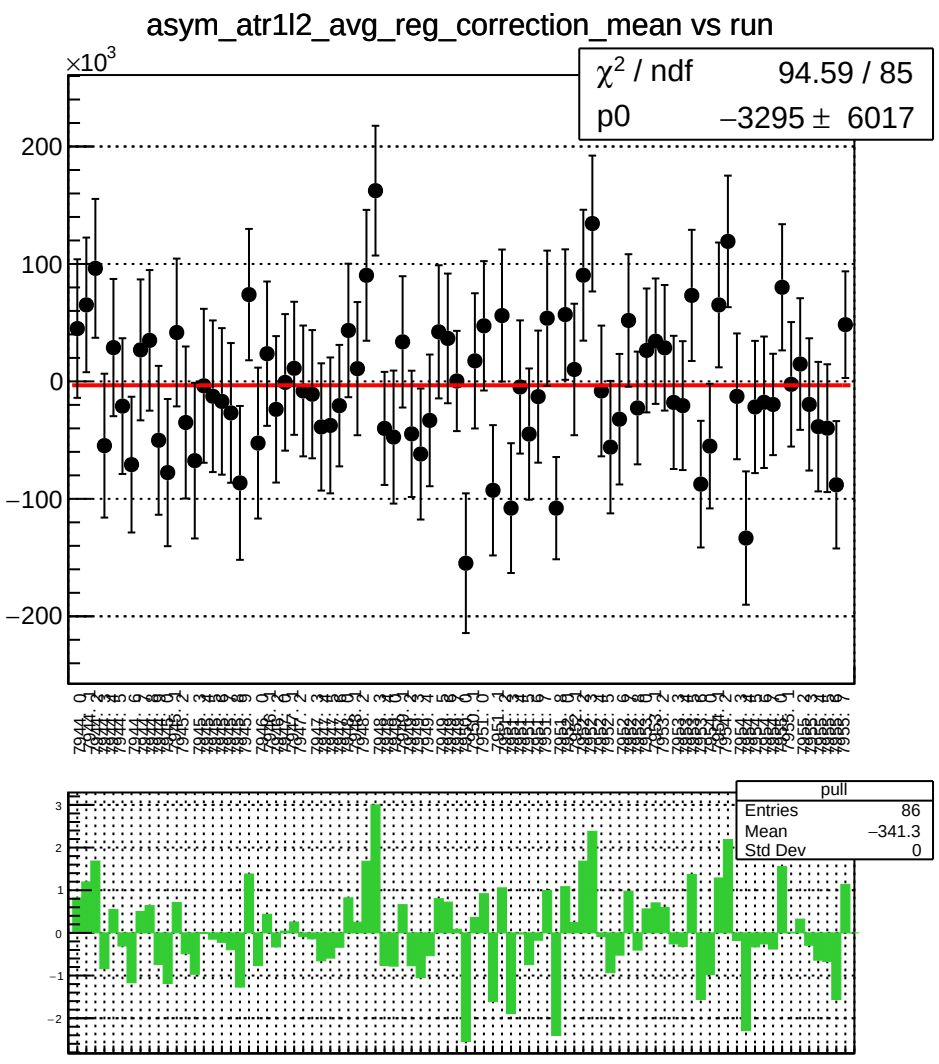

pull1D
Entries 86
Mean 0.01278
Std Dev 0.9139

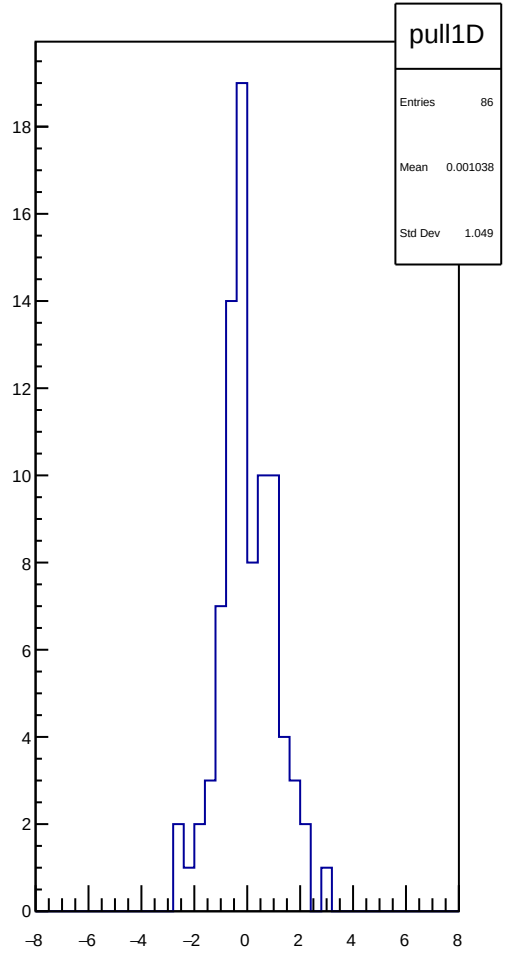

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.041e+05 / 85
p0 3.21e−10 ± 3.555e−13
3.5
3
2.5
2
1.5
1
0.5

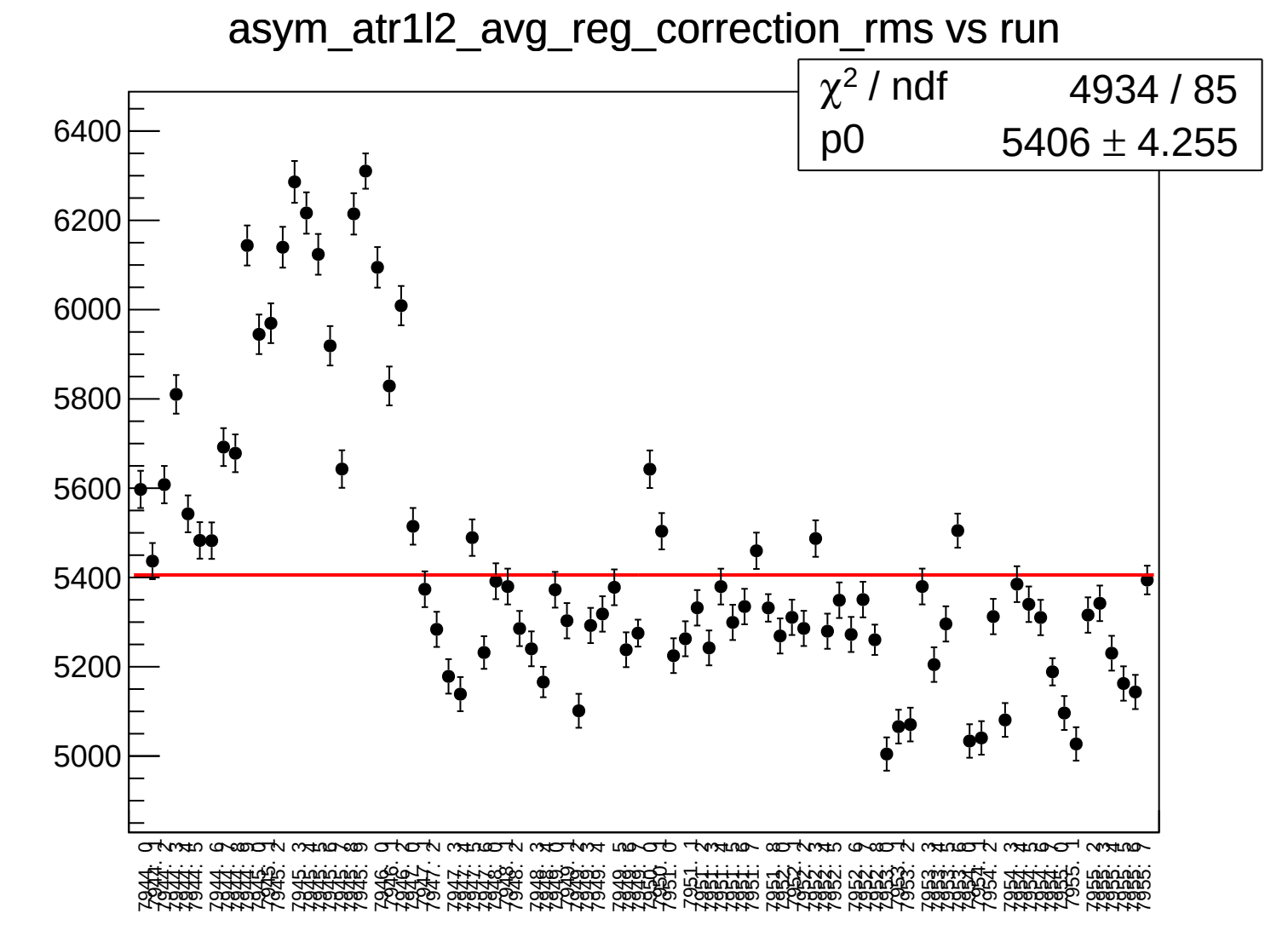

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 88.41 / 85
p0 648.5 ± 1973
pull
Entries 86
Mean −1762
Std Dev 0

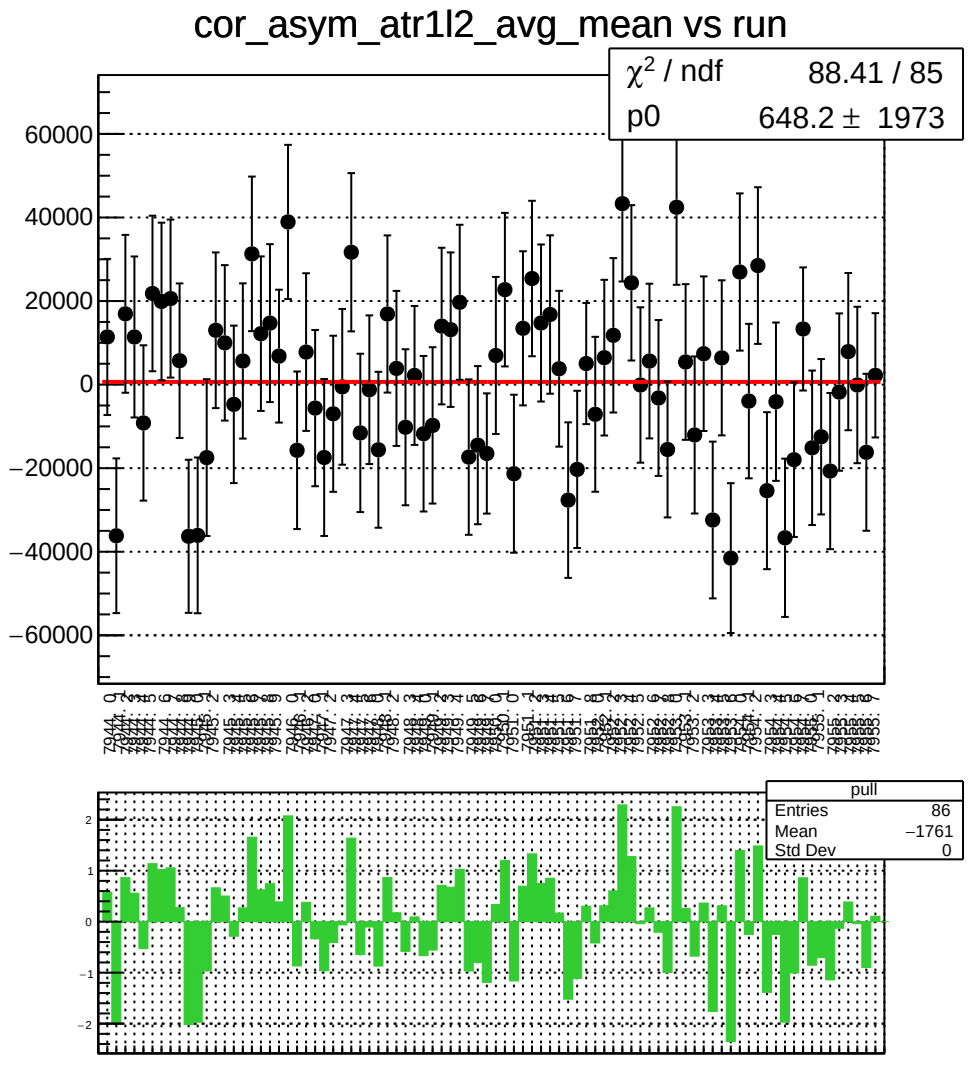

pull1D
Entries 86
Mean 0.00165
Std Dev 1.014

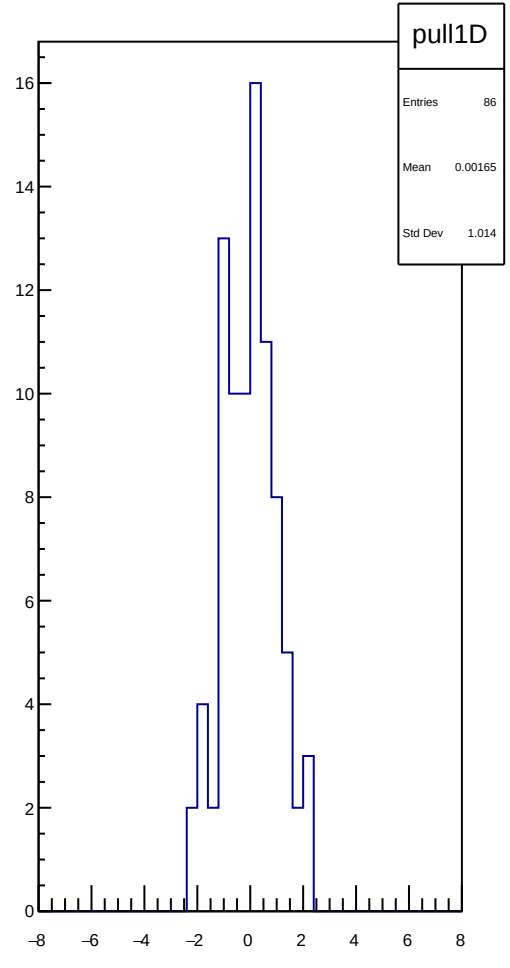

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 138 / 85
p0 1775 ± 1.395
1840
1820
1800
1780
1760
1740

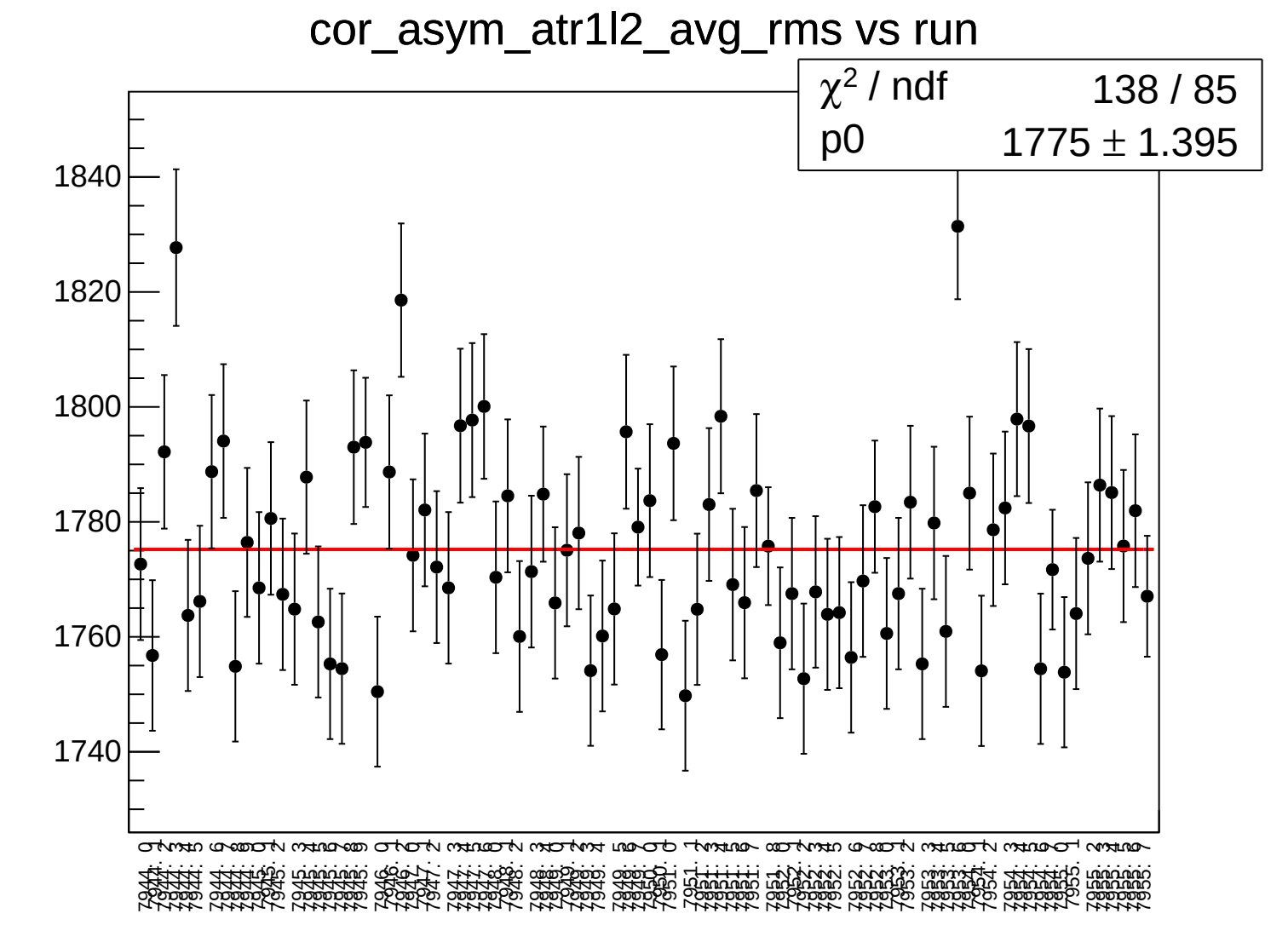

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.59 / 85
p0 −3295 ± 6017
200
100
0
−100
−200
pull
Entries 86
Mean −341.3
Std Dev 0
3
2
1
0
−1
−2

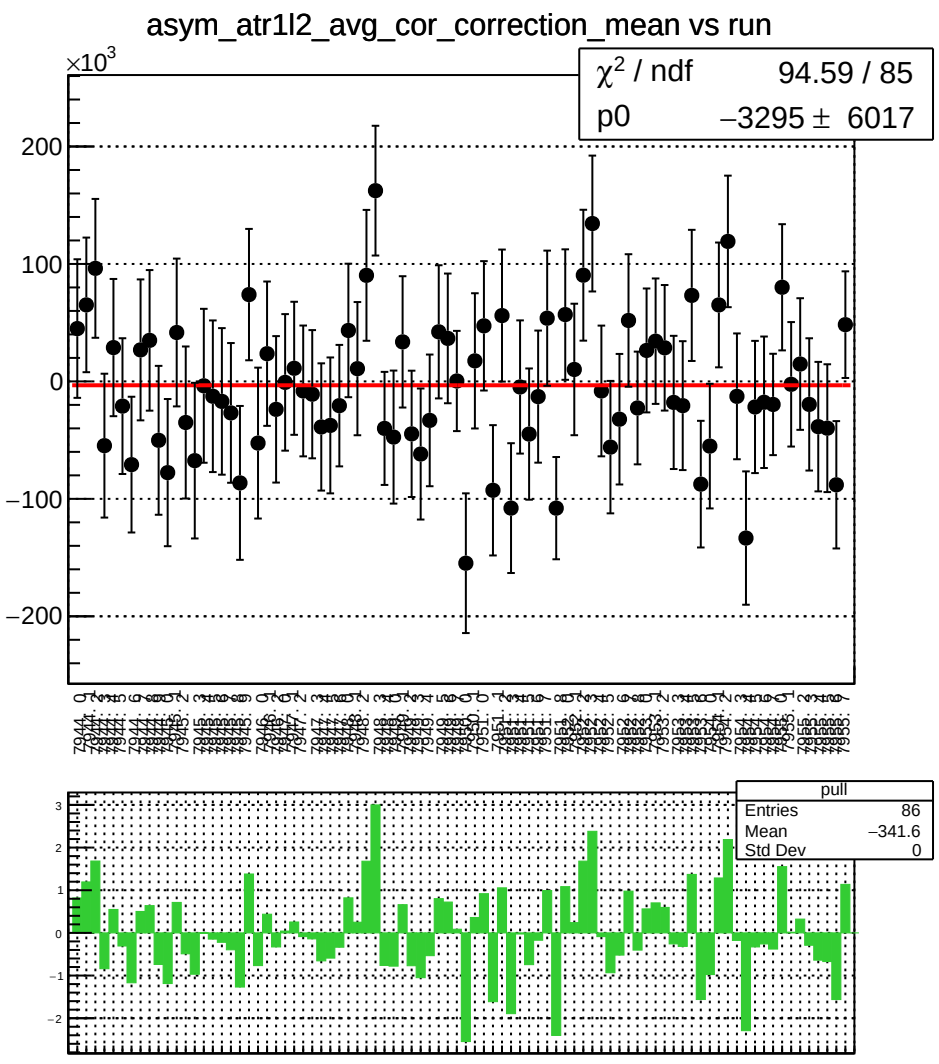

pull1D
Entries 86
Mean 0.001038
Std Dev 1.049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

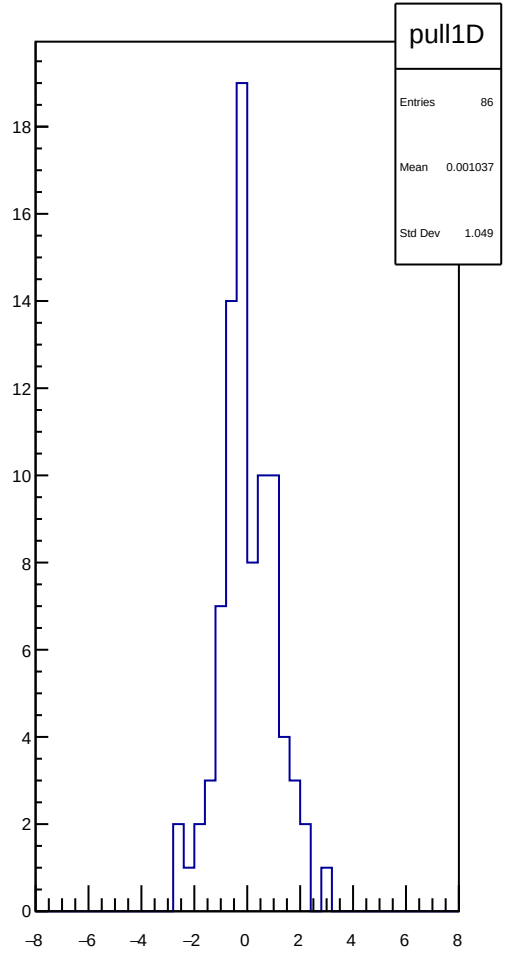

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 4934 / 85
p0 5406 ± 4.255
6400
6200
6000
5800
5600
5400
5200
5000

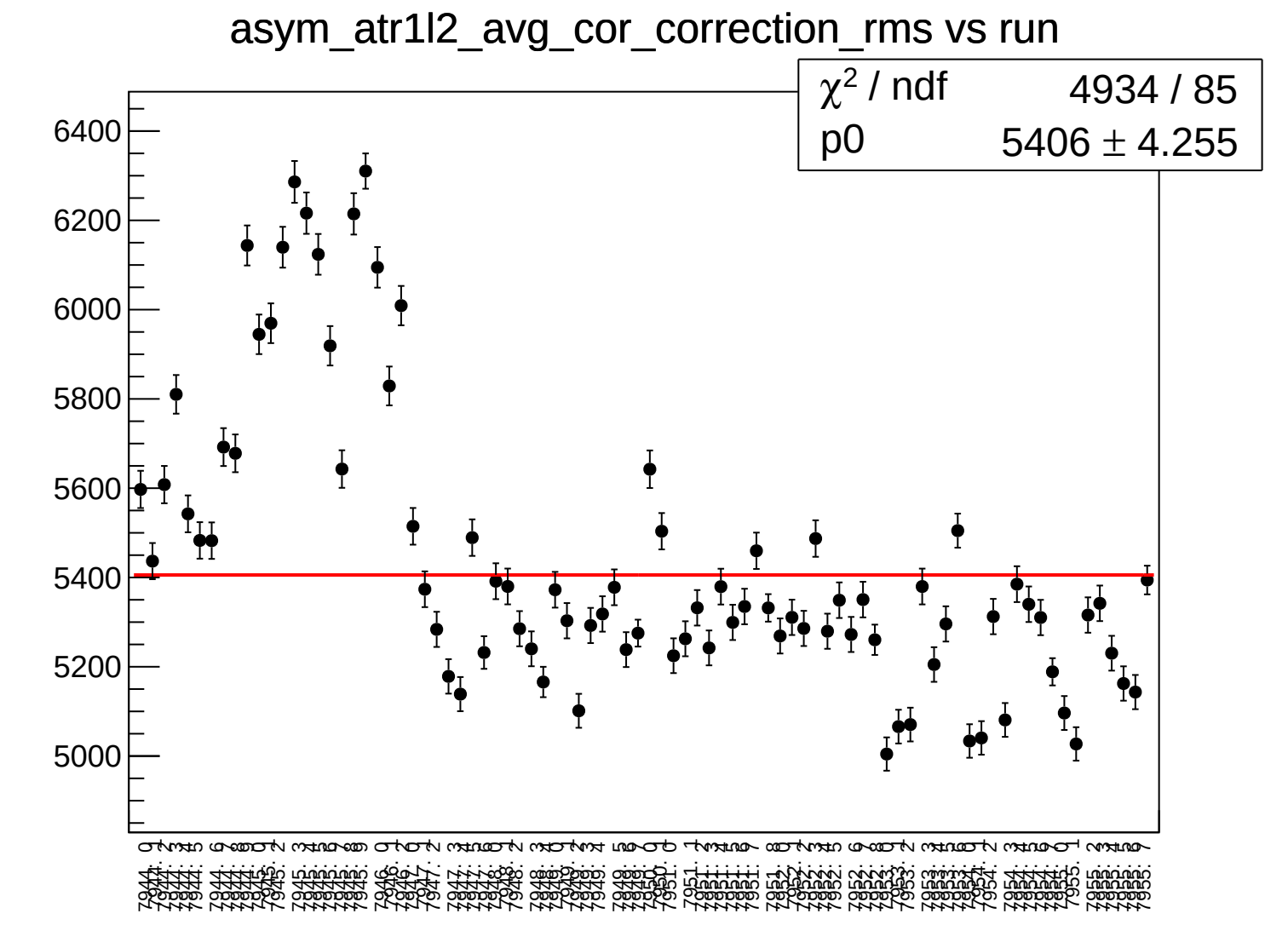

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 88.41 / 85
p0 648.2 ± 1973
pull
Entries 86
Mean −1761
Std Dev 0

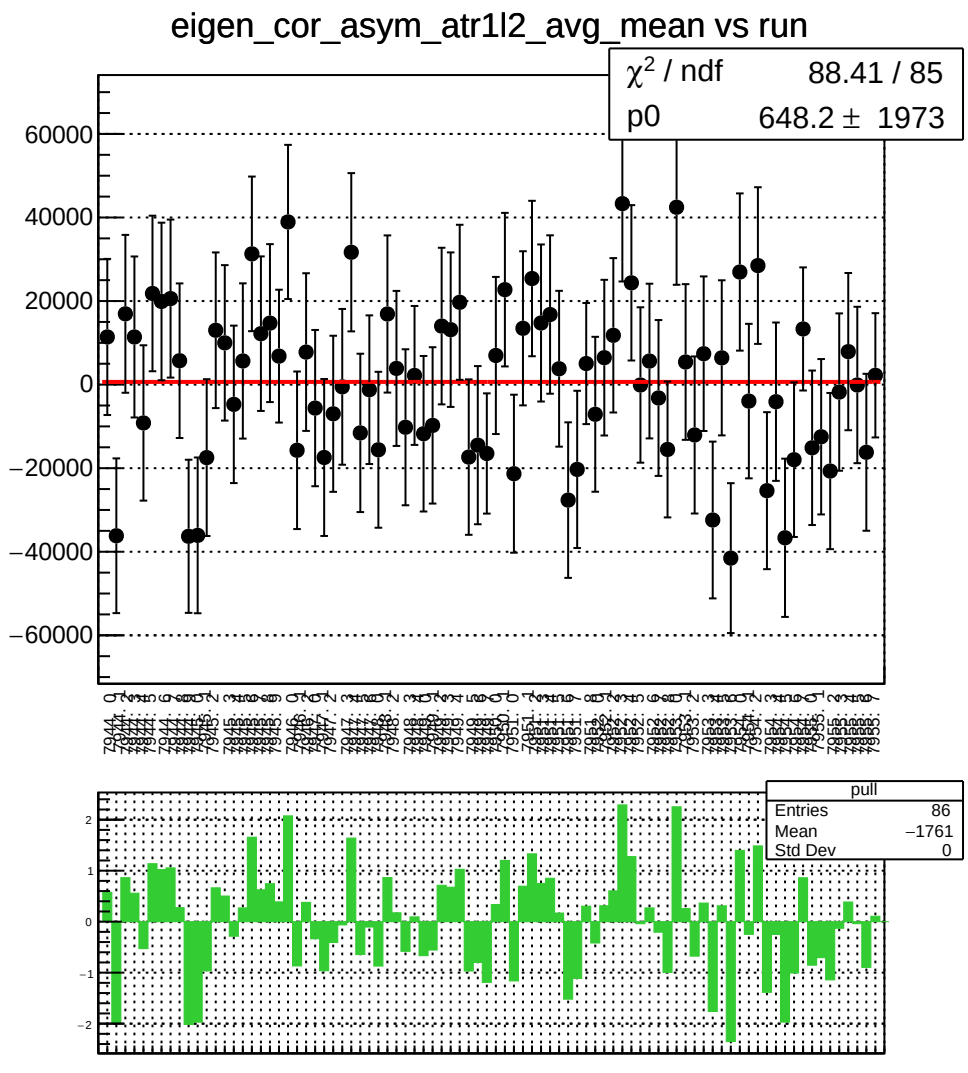

pull1D
Entries 86
Mean 0.00165
Std Dev 1.014

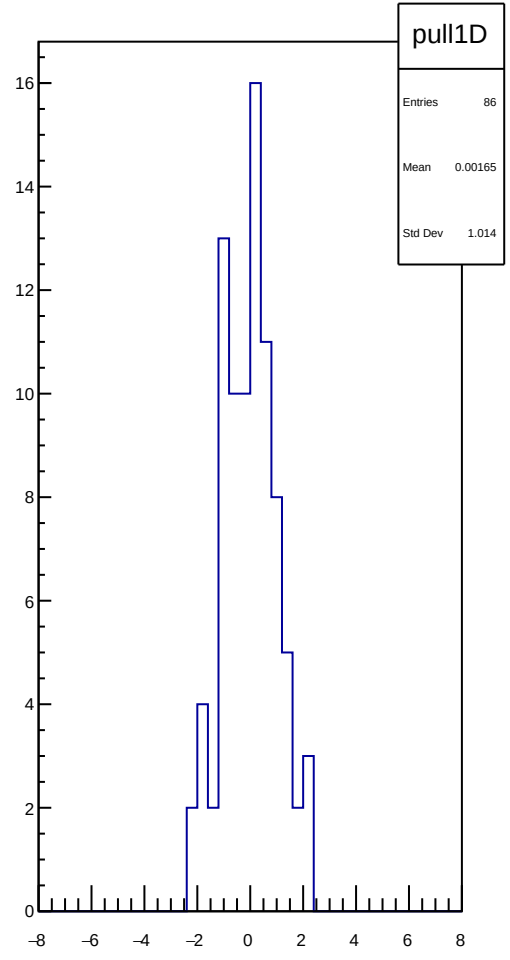

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 138 / 85
p0 1775 ± 1.395
1840
1820
1800
1780
1760
1740

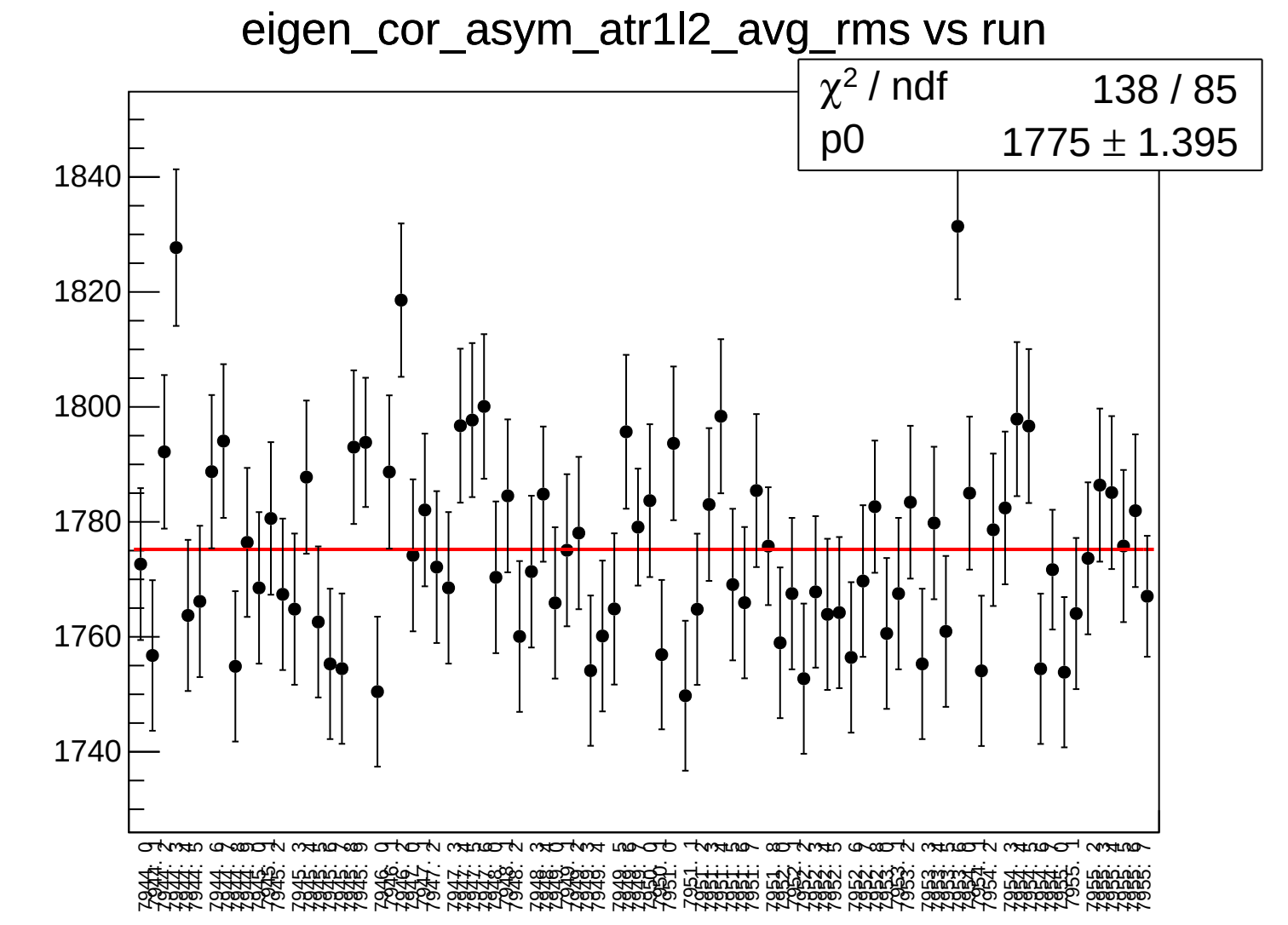

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.59 / 85
p0 −3295 ± 6017
200
100
0
−100
−200
pull
Entries 86
Mean −341.6
Std Dev 0
3
2
1
0
−1
−2

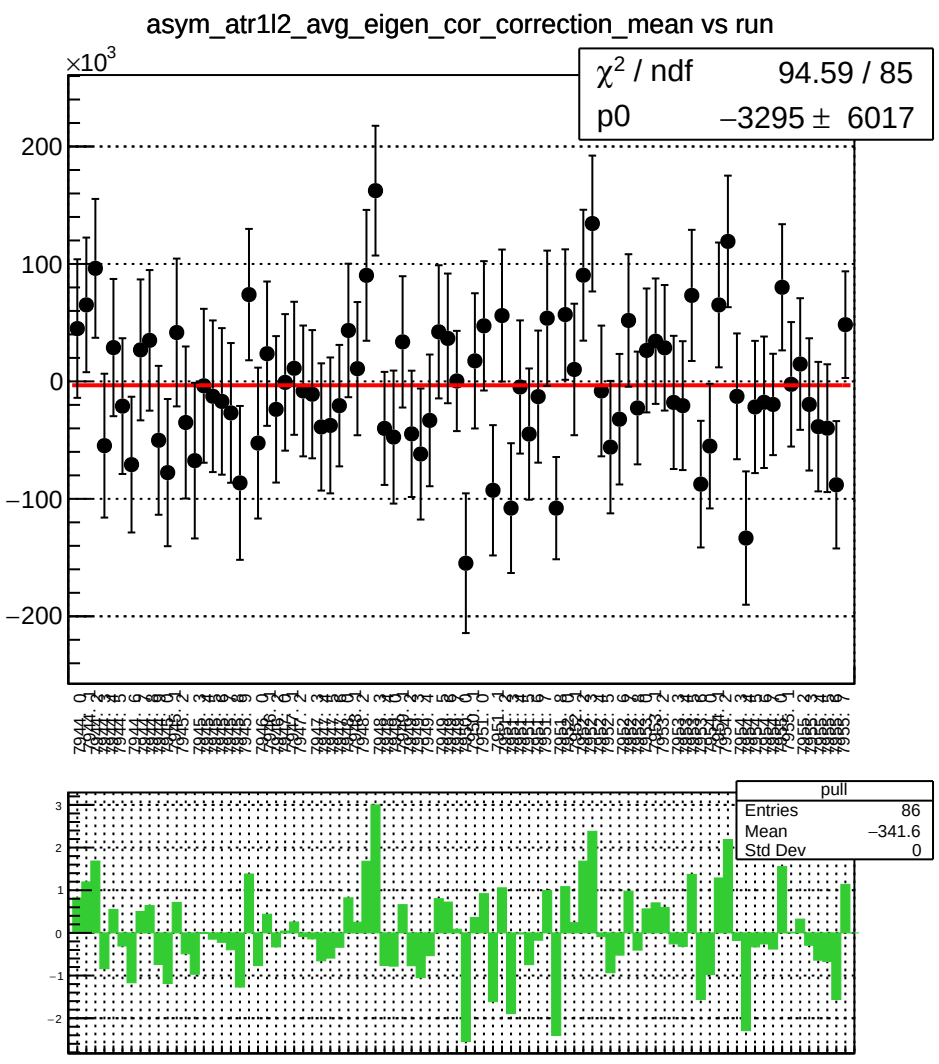

pull1D
Entries 86
Mean 0.001037
Std Dev 1.049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

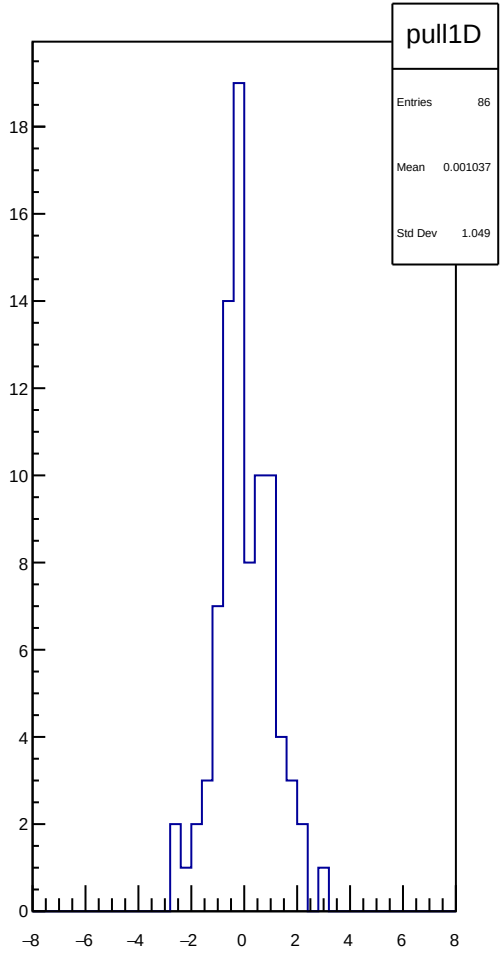

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 4934 / 85
p0 5406 ± 4.255
6400
6200
6000
5800
5600
5400
5200
5000

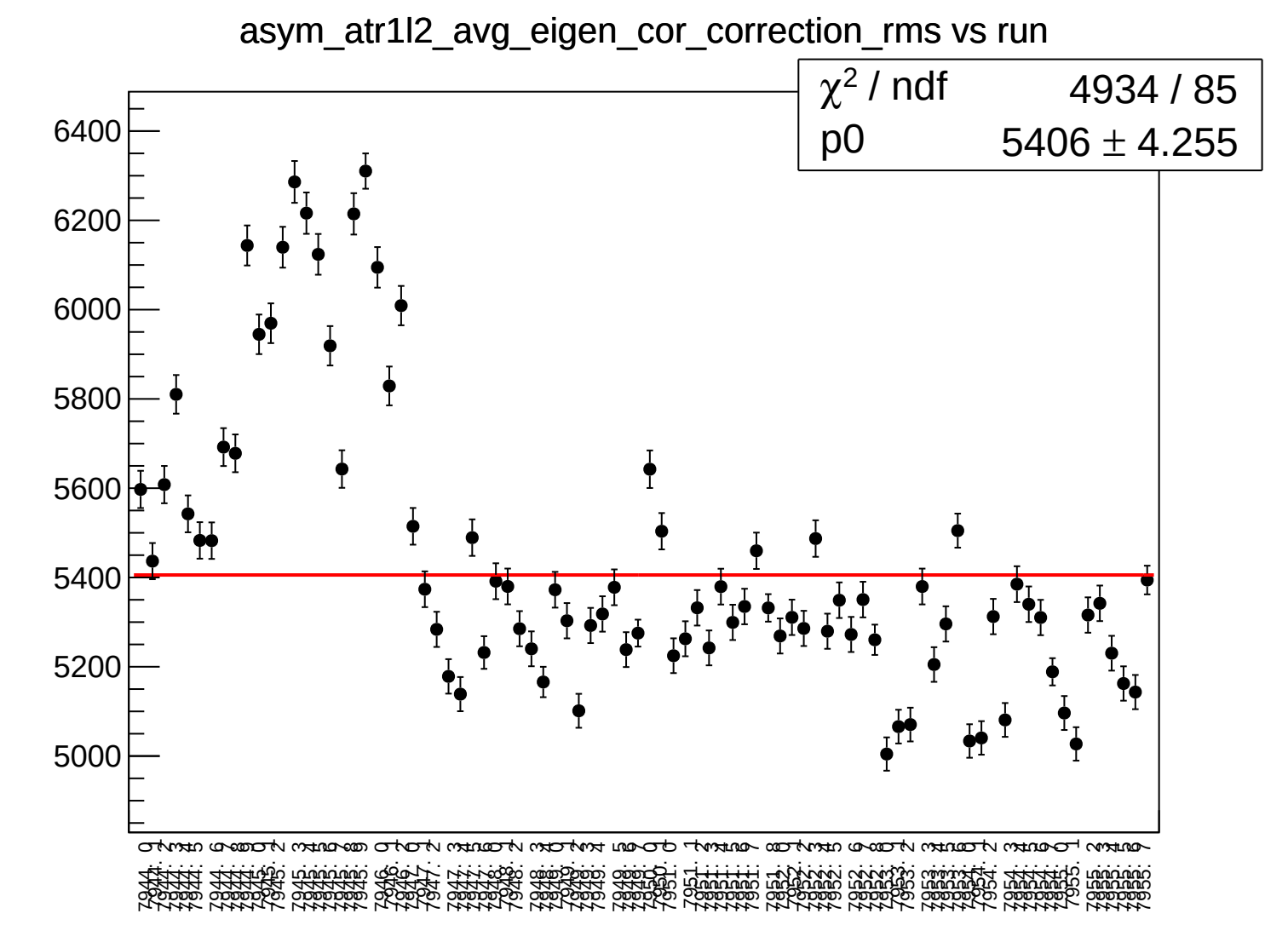

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 88.41 / 85
p0 648.2 ± 1973
pull
Entries 86
Mean −1761
Std Dev 0

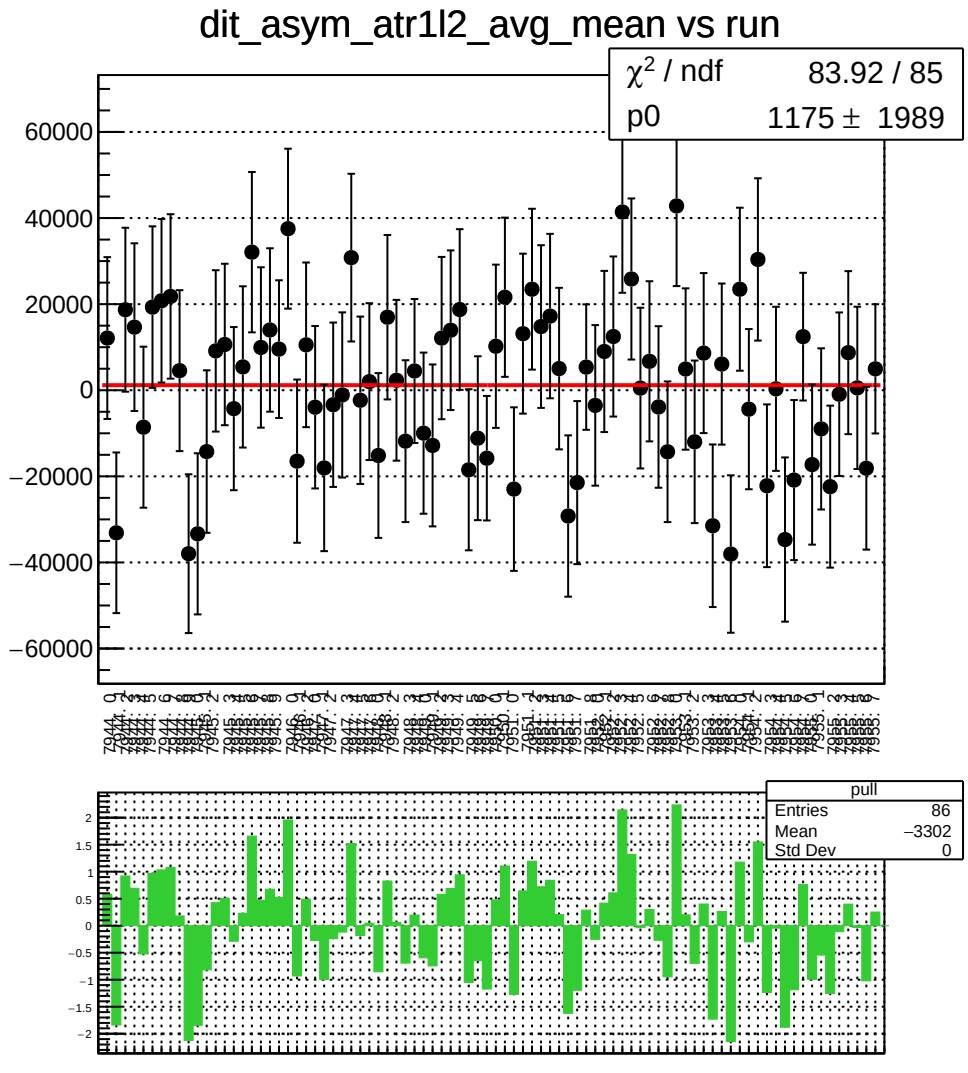

pull1D
Entries 86
Mean 0.00165
Std Dev 1.014

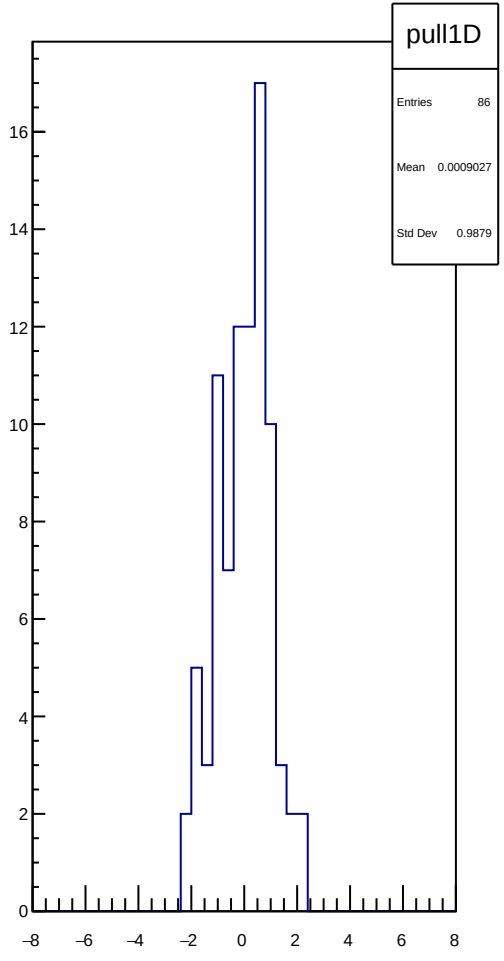

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 138 / 85
p0 1775 ± 1.395
1840
1820
1800
1780
1760
1740

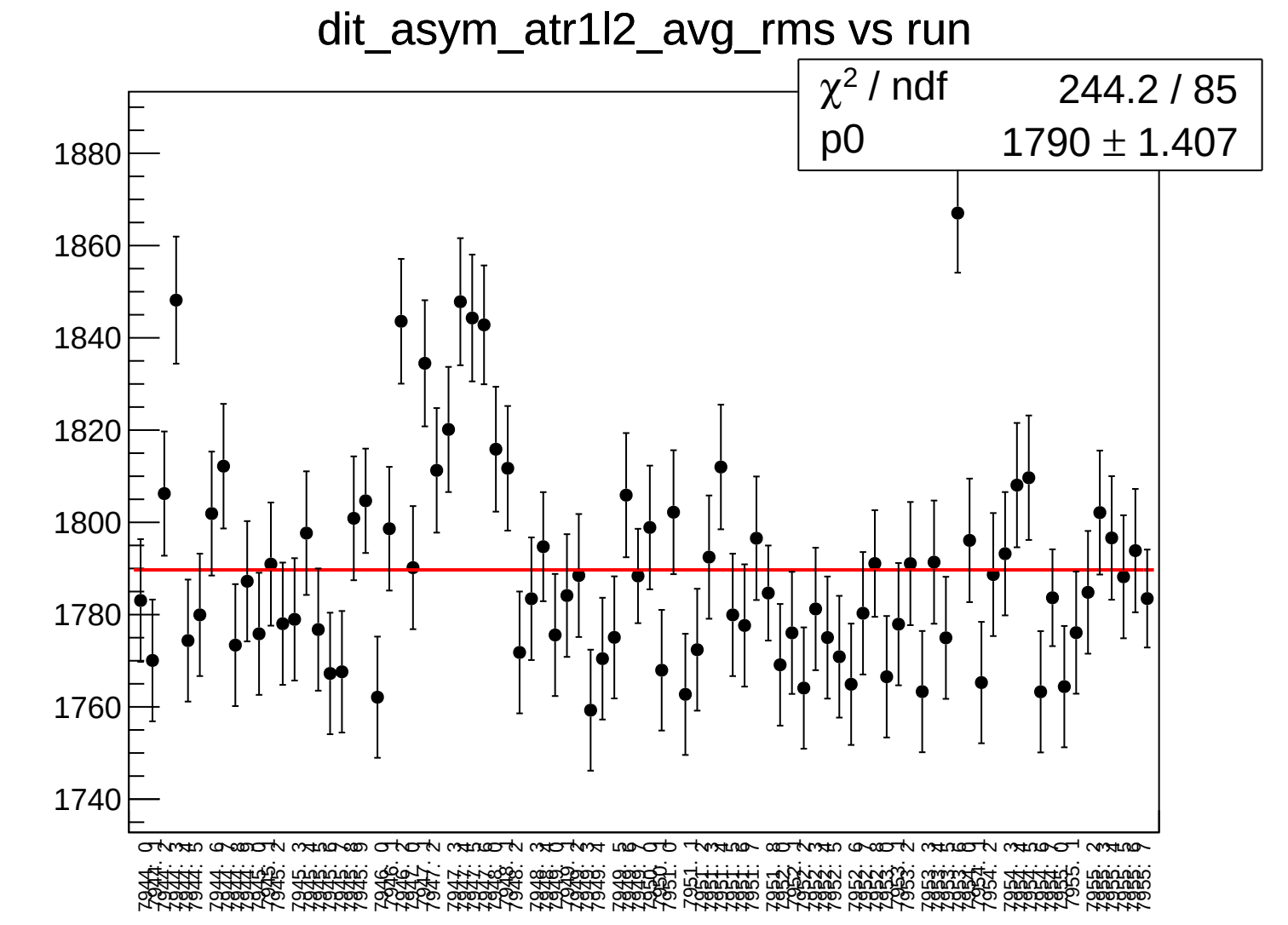

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.59 / 85
p0 −3295 ± 6017
200
100
0
−100
−200
pull
Entries 86
Mean −341.6
Std Dev 0
3
2
1
0
−1
−2

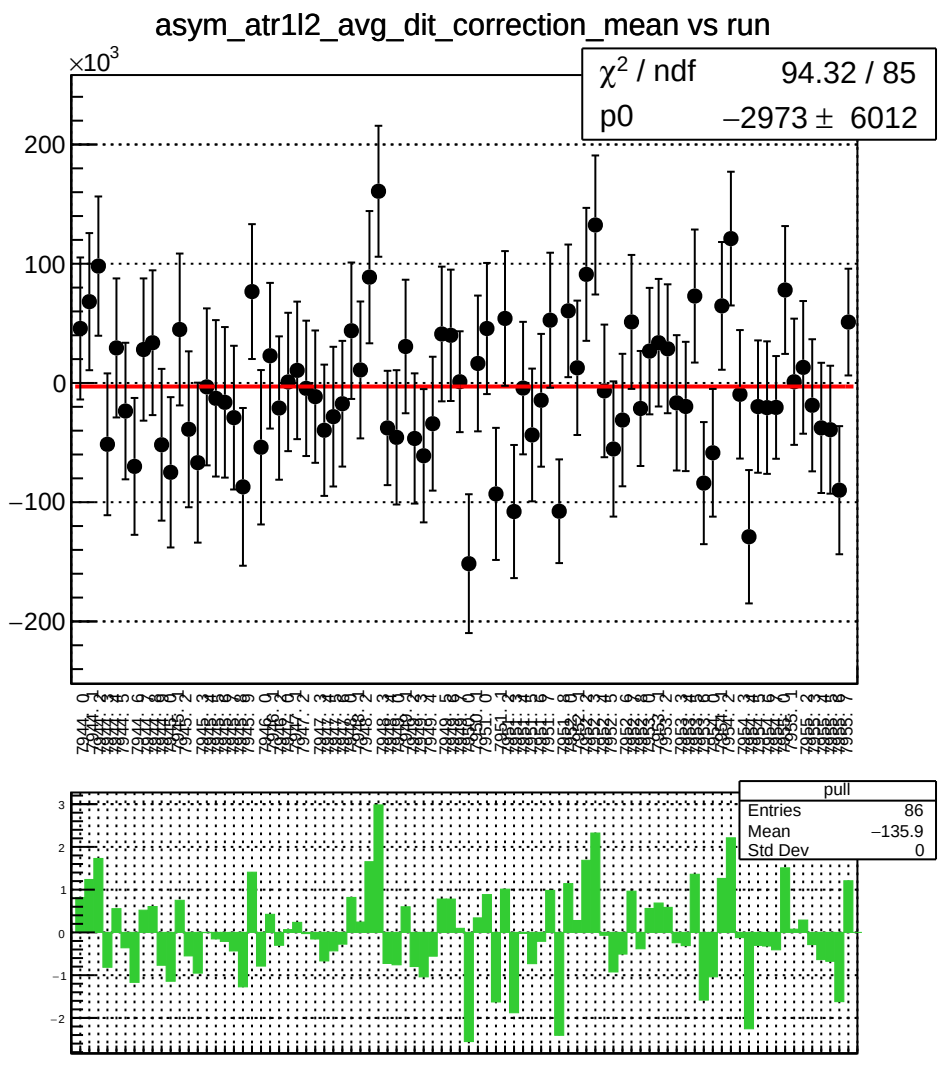

pull1D
Entries 86
Mean 0.001037
Std Dev 1.049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

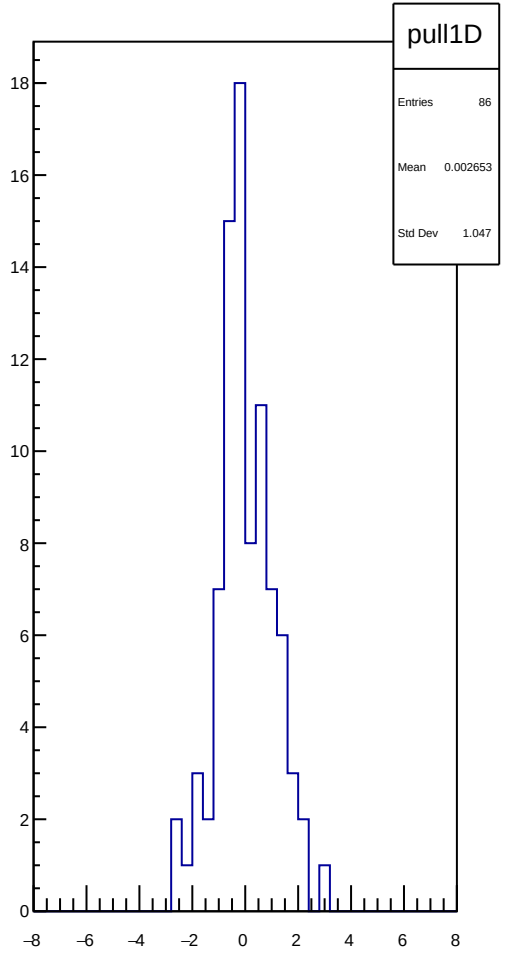

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4934 / 85
p0 5406 ± 4.255
6400
6200
6000
5800
5600
5400
5200
5000

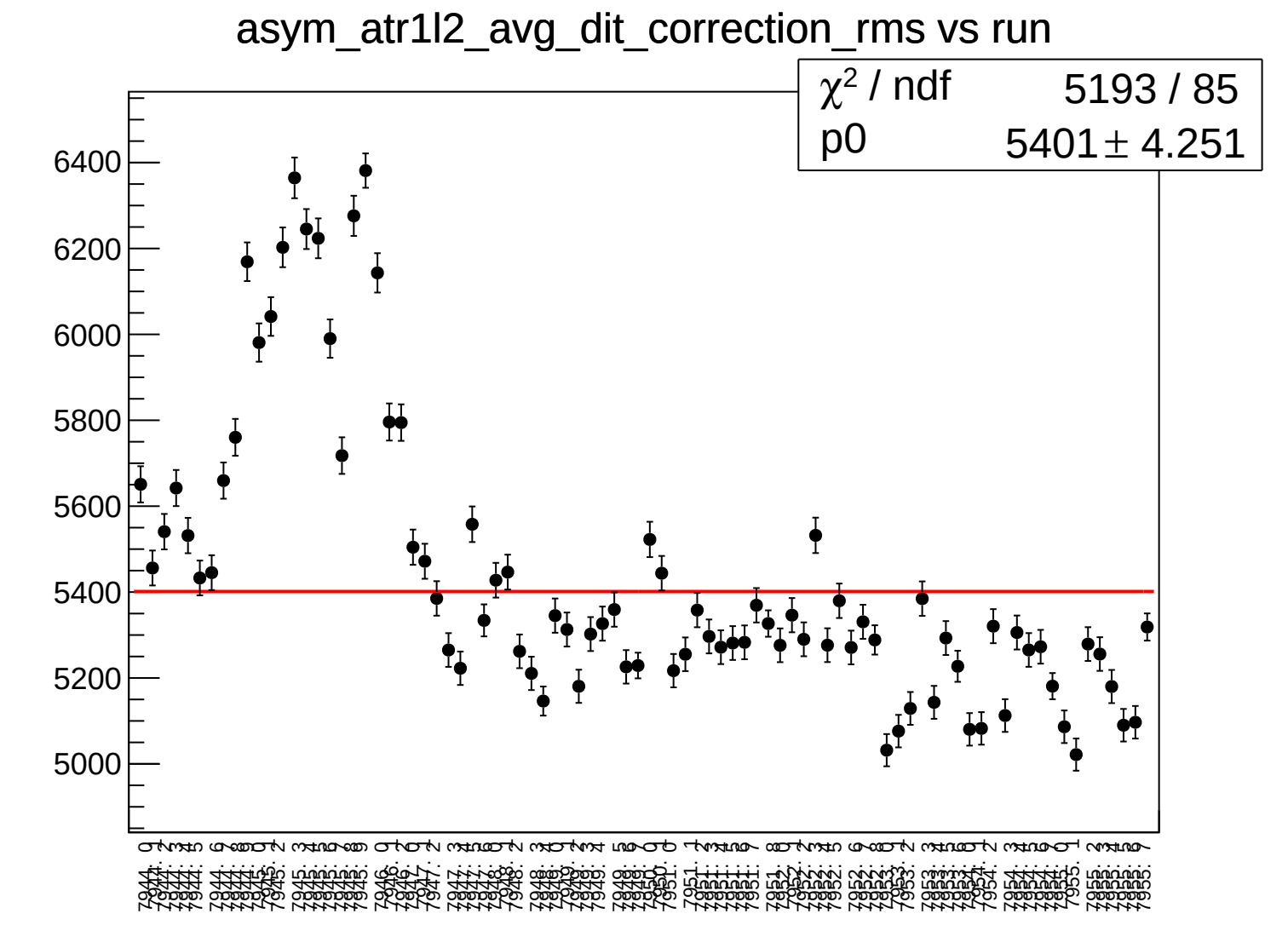

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 83.92 / 85
p0 1175 ± 1989
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −3302
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

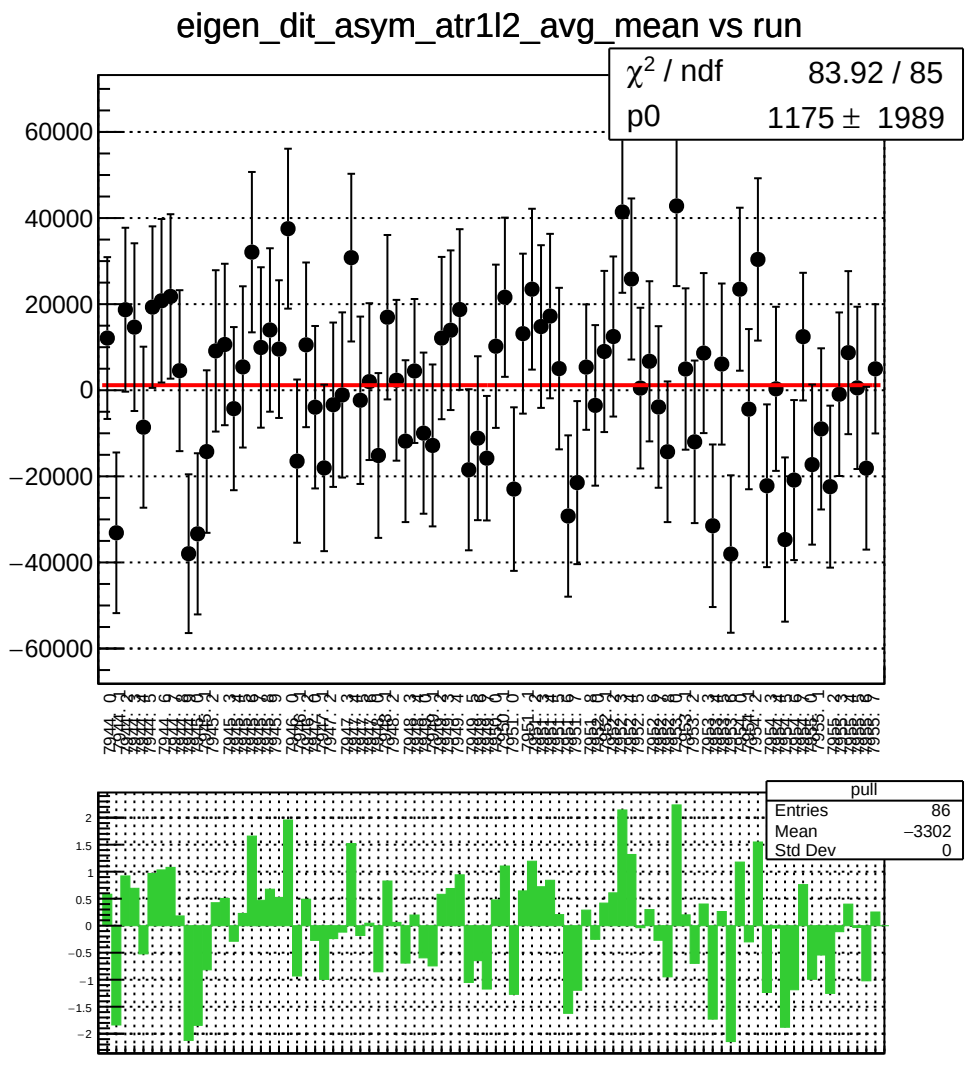

pull1D
Entries 86
Mean 0.0009027
Std Dev 0.9879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

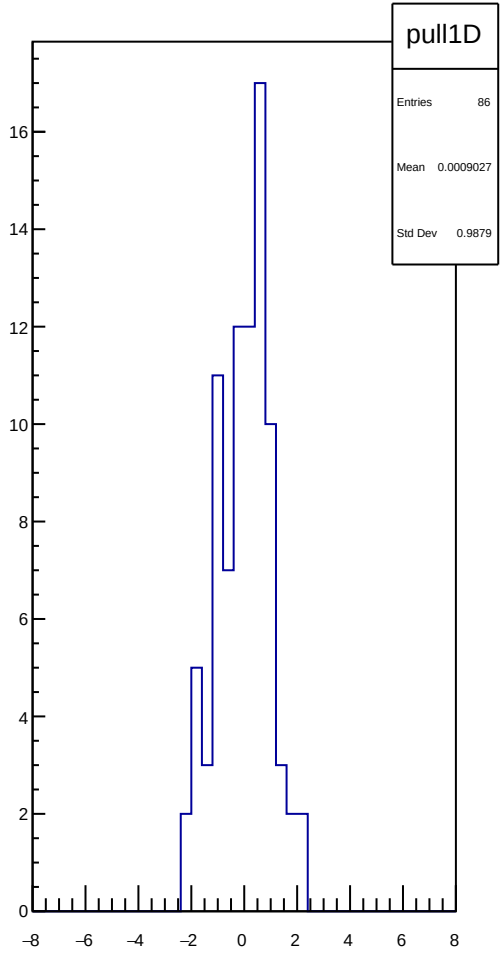

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 244.2 / 85
p0 1790 ± 1.407
1880
1860
1840
1820
1800
1780
1760
1740

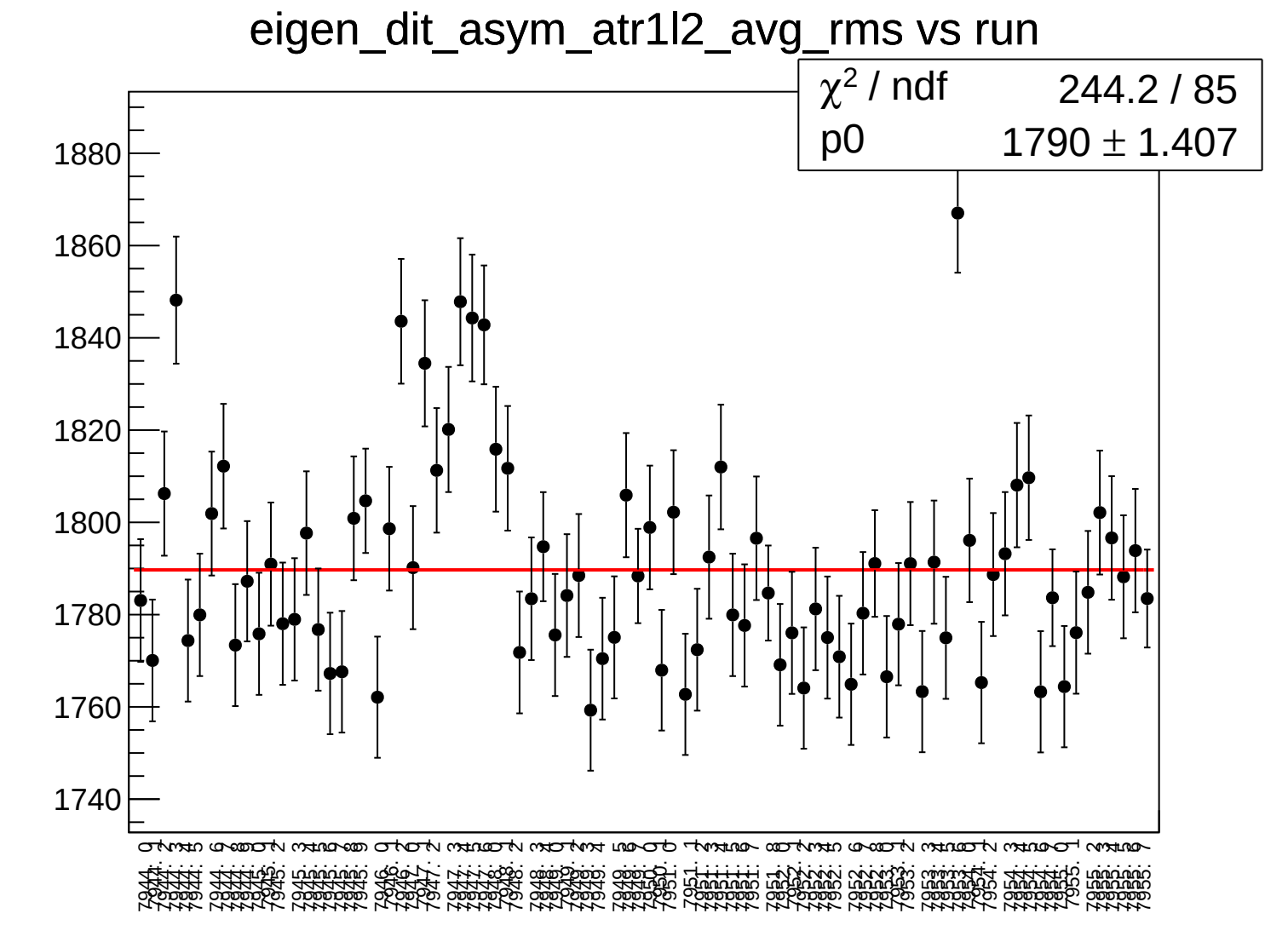

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.32 / 85
p0 −2973 ± 6012
200
100
0
−100
−200
pull
Entries 86
Mean −135.9
Std Dev 0
3
2
1
0
−1
−2

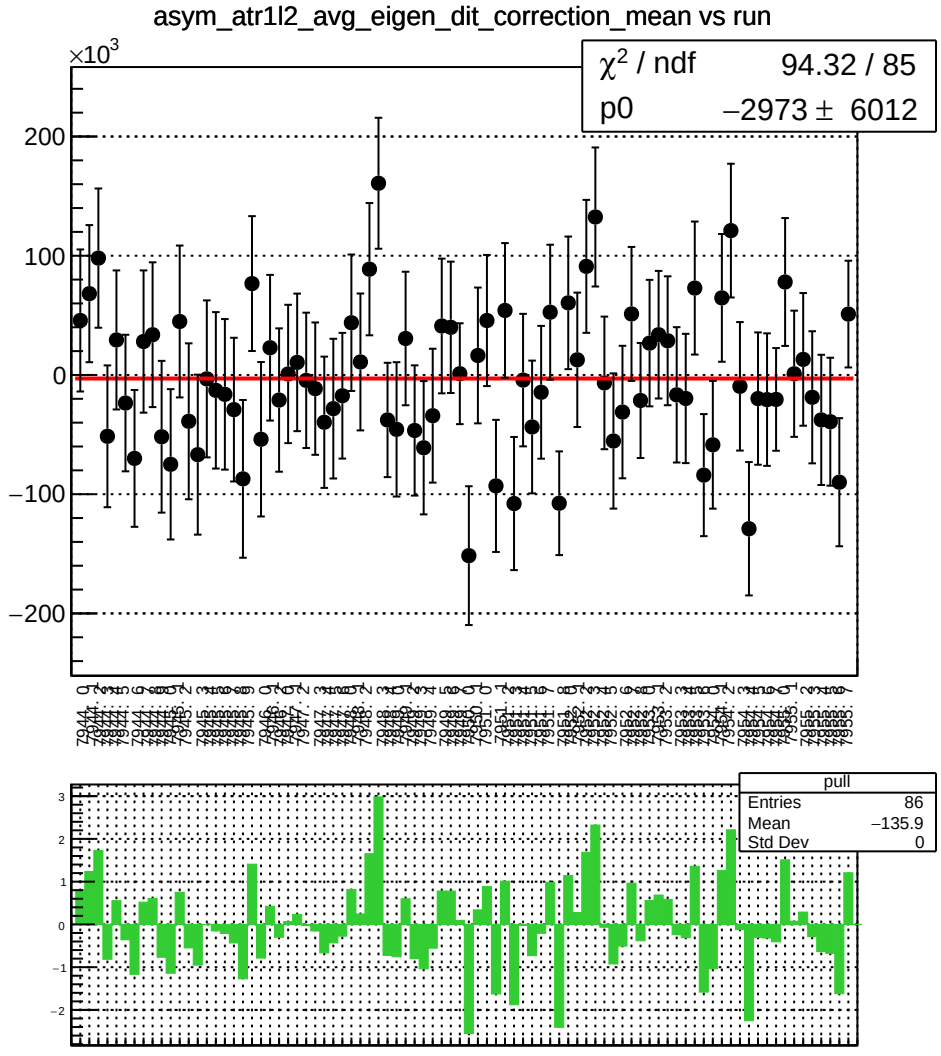

pull1D
Entries 86
Mean 0.002653
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

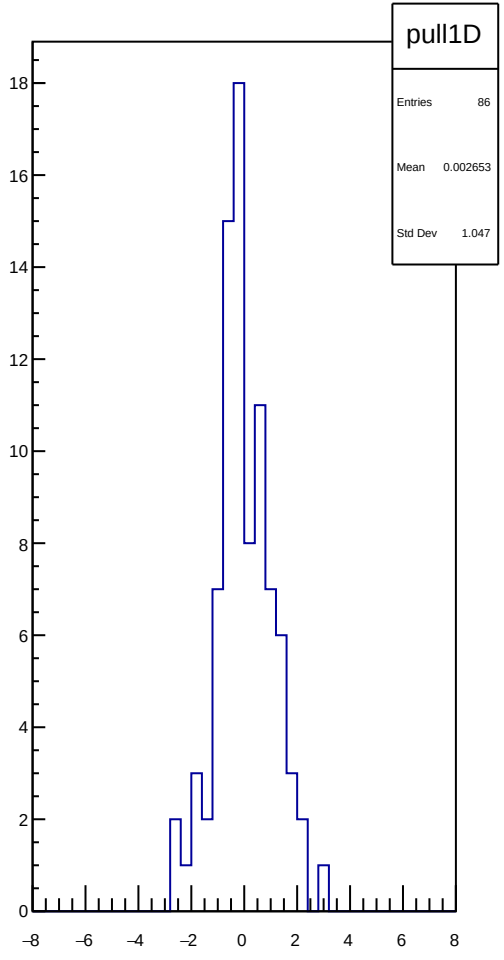

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 5193 / 85
p0 5401 ± 4.251
6400
6200
6000
5800
5600
5400
5200
5000

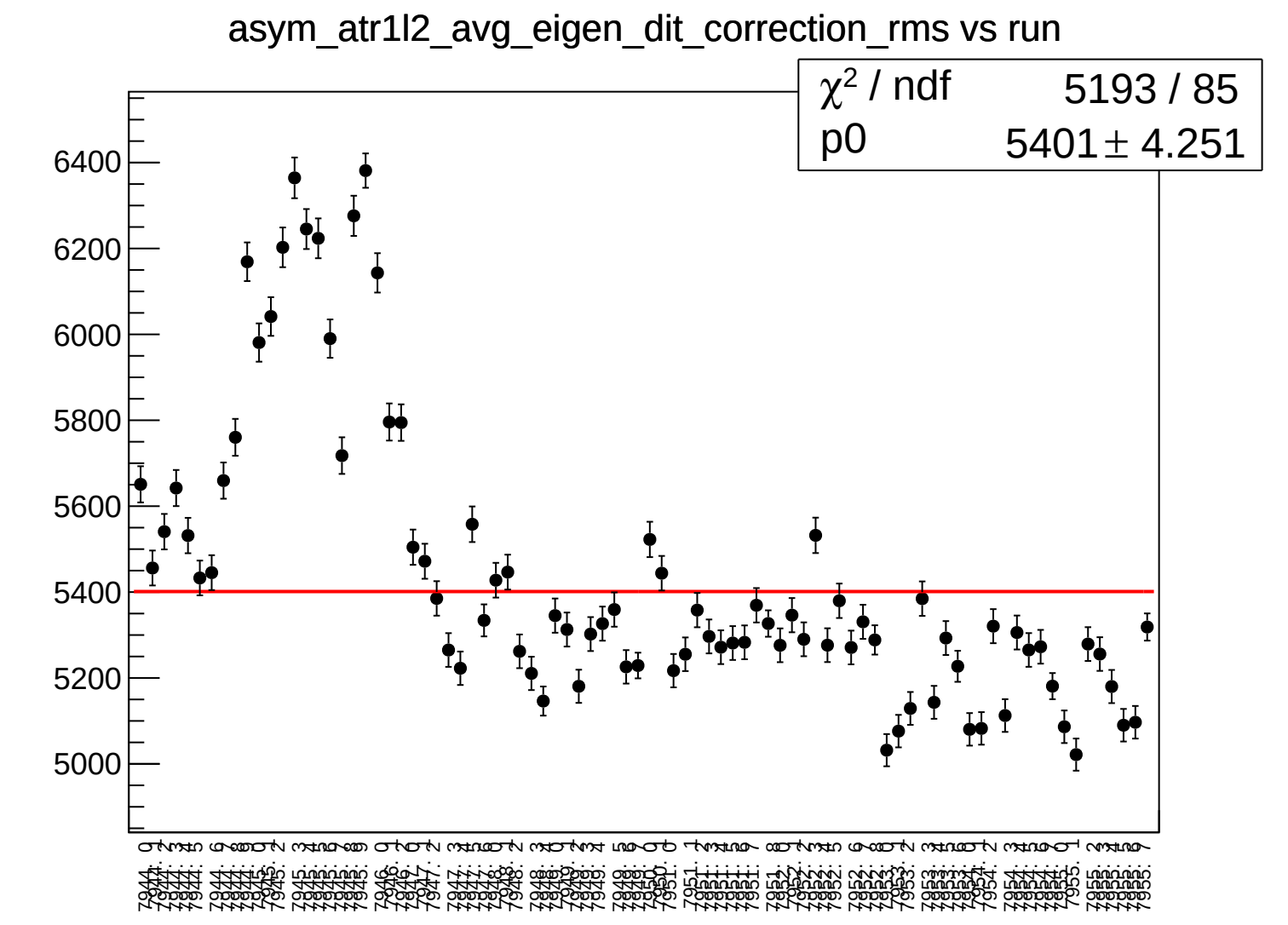

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 83.92 / 85
p0 1175 ± 1989
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −3302
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

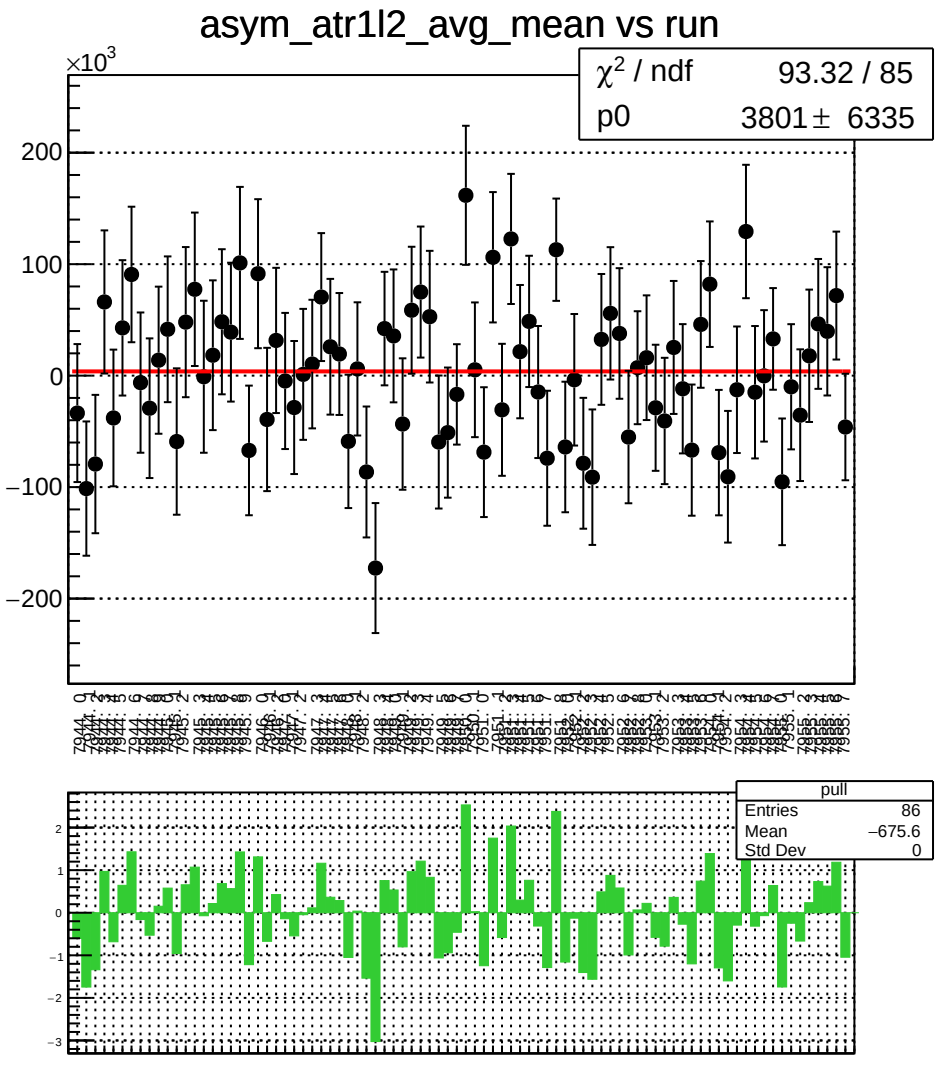

pull1D
Entries 86
Mean 0.0009027
Std Dev 0.9879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

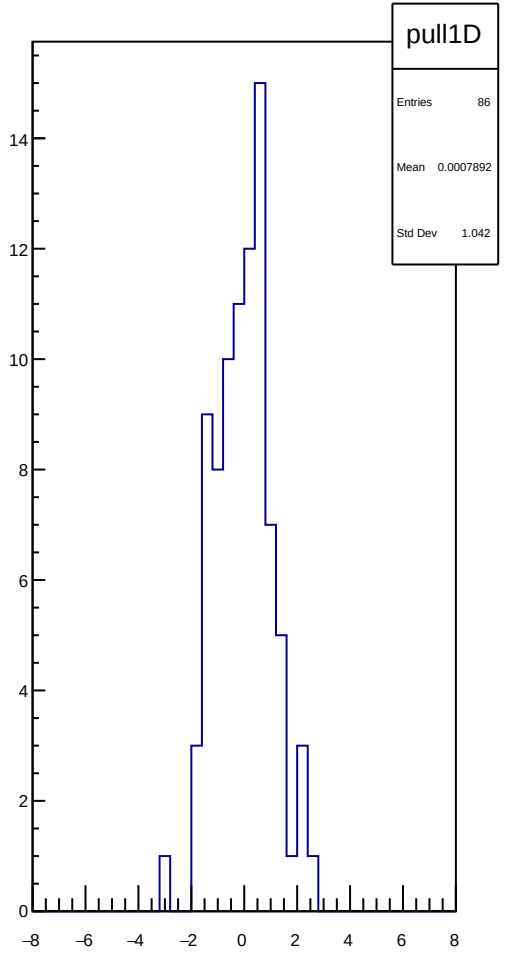

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 244.2 / 85
p0 1790 ± 1.407
1880
1860
1840
1820
1800
1780
1760
1740

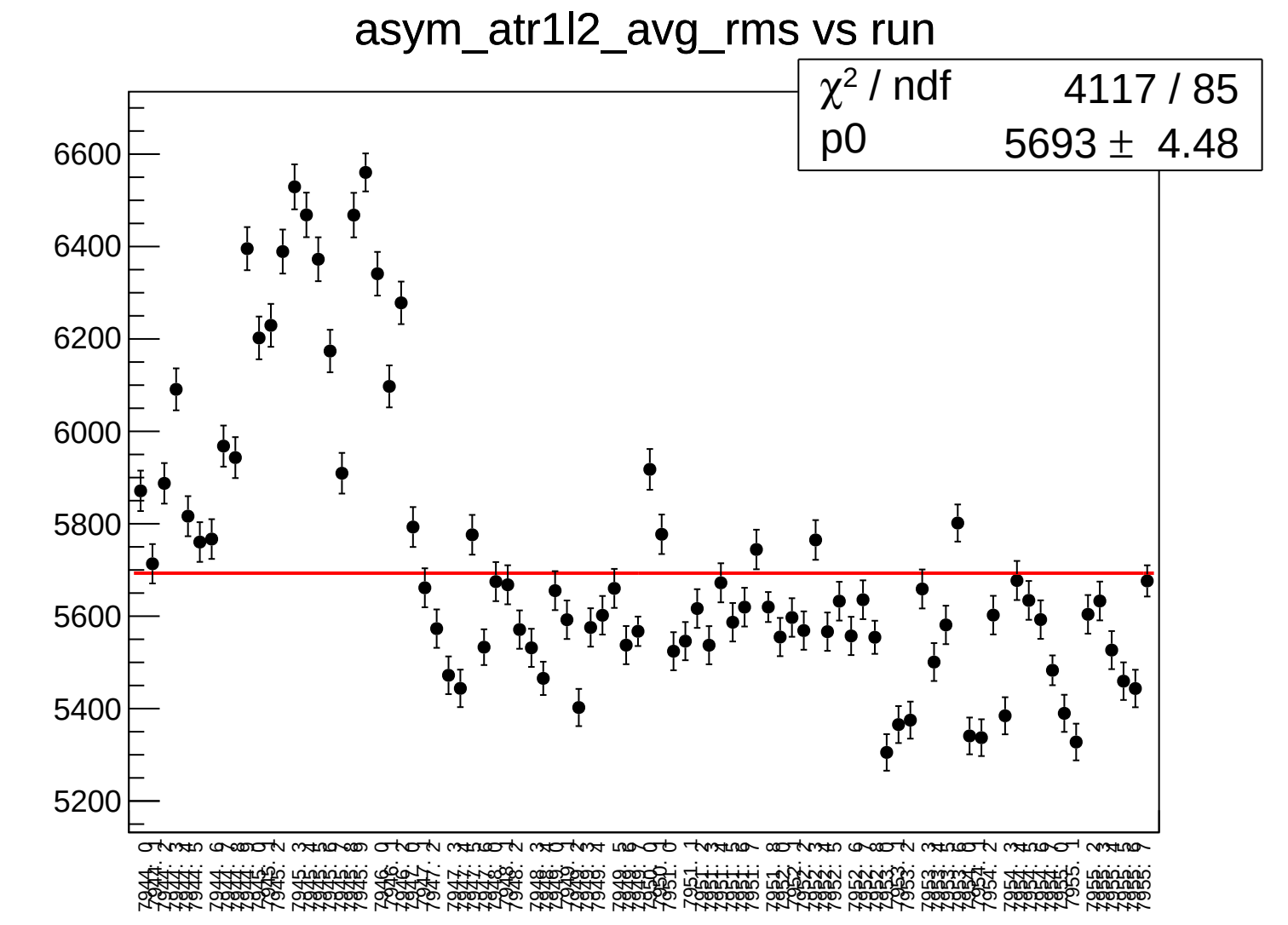

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.32 / 85
p0 −2973 ± 6012
200
100
0
−100
−200
pull
Entries 86
Mean −135.9
Std Dev 0
3
2
1
0
−1
−2

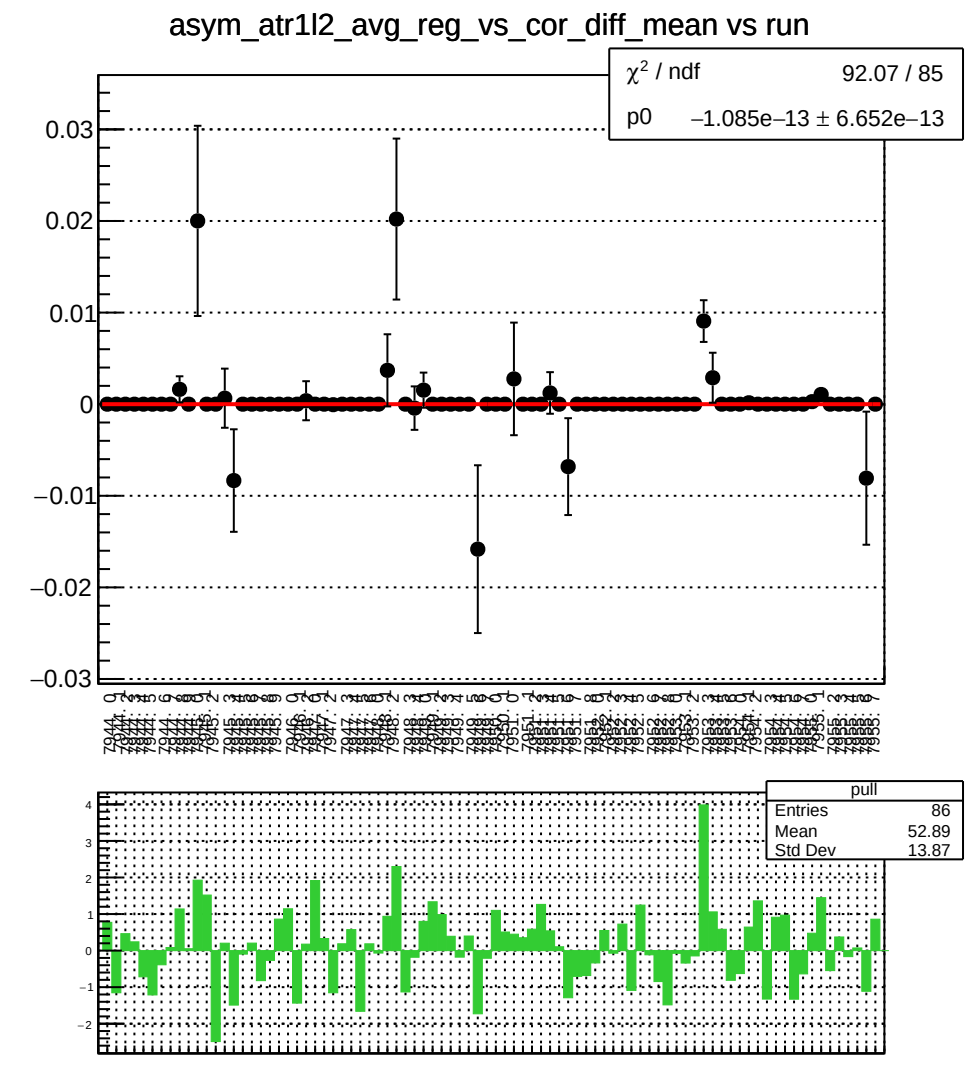

pull1D
Entries 86
Mean 0.002653
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

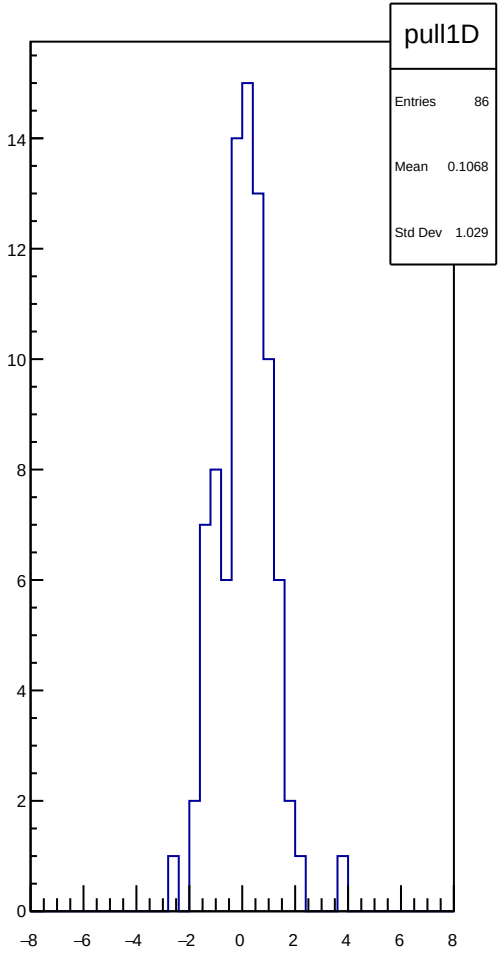

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5193 / 85
p0 5401 ± 4.251
6400
6200
6000
5800
5600
5400
5200
5000

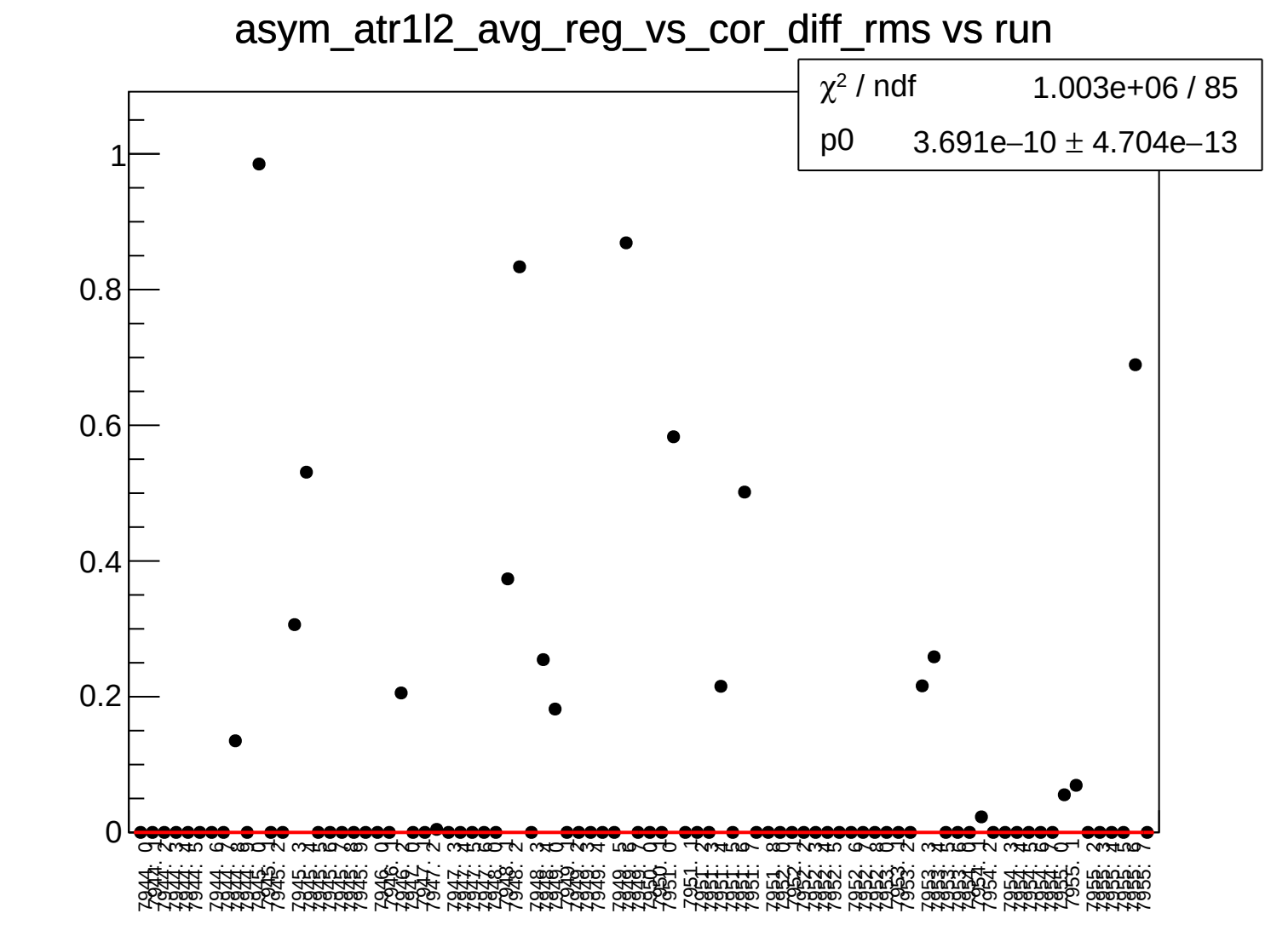

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 93.32 / 85
p0 3801 ± 6335
200
100
0
−100
−200
pull
Entries 86
Mean −675.6
Std Dev 0
2
1
0
−1
−2
−3

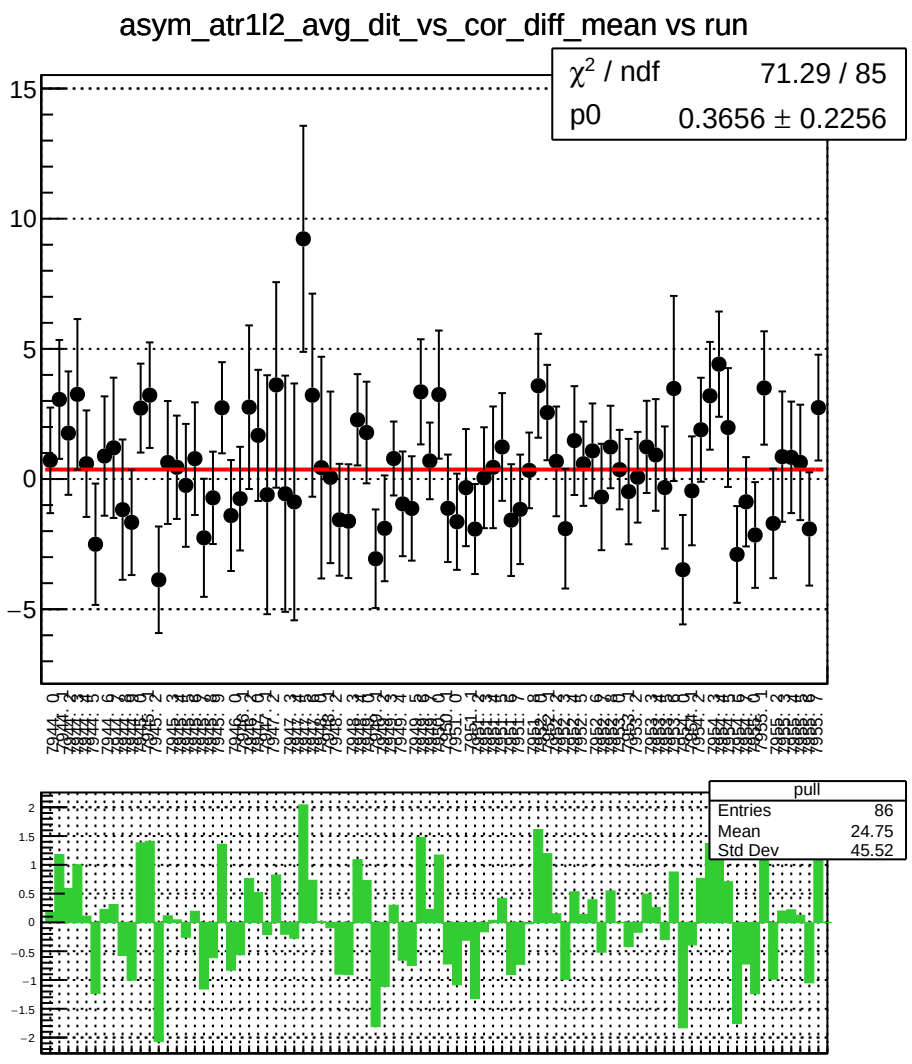

pull1D
Entries 86
Mean 0.0007892
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

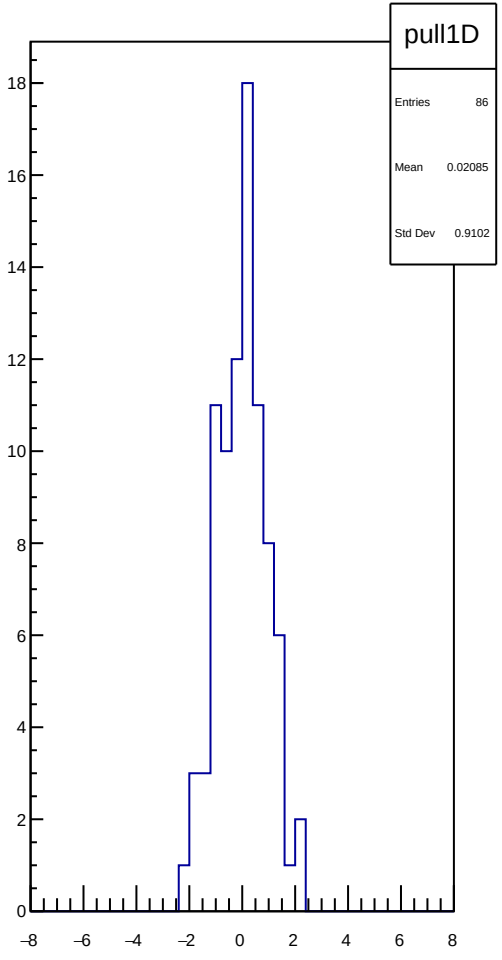

asym_atr1l2_avg_rms vs run
χ² / ndf 4117 / 85
p0 5693 ± 4.48
6600
6400
6200
6000
5800
5600
5400
5200

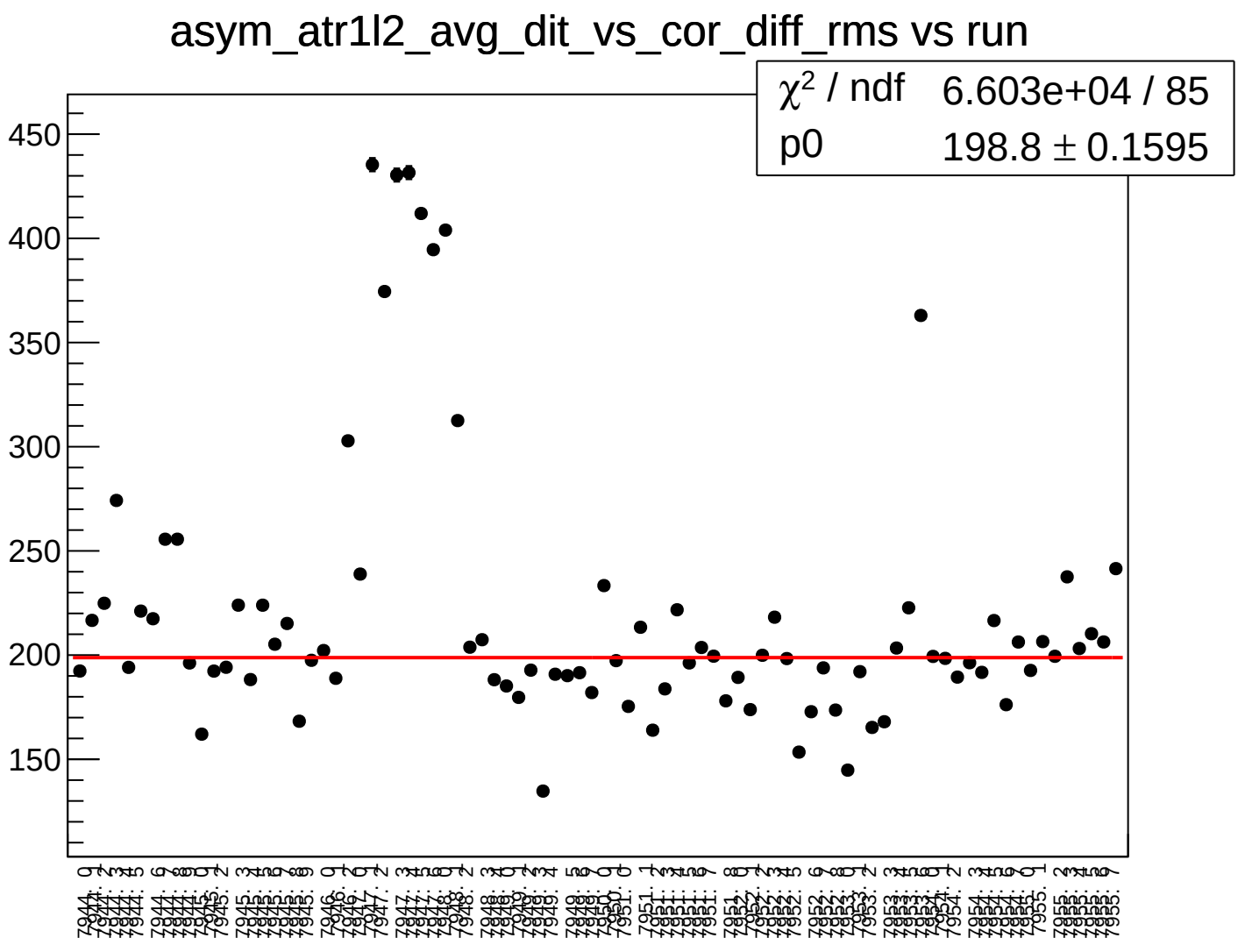

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.07 / 85
p0 −1.085e−13 ± 6.652e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 52.89
Std Dev 13.87

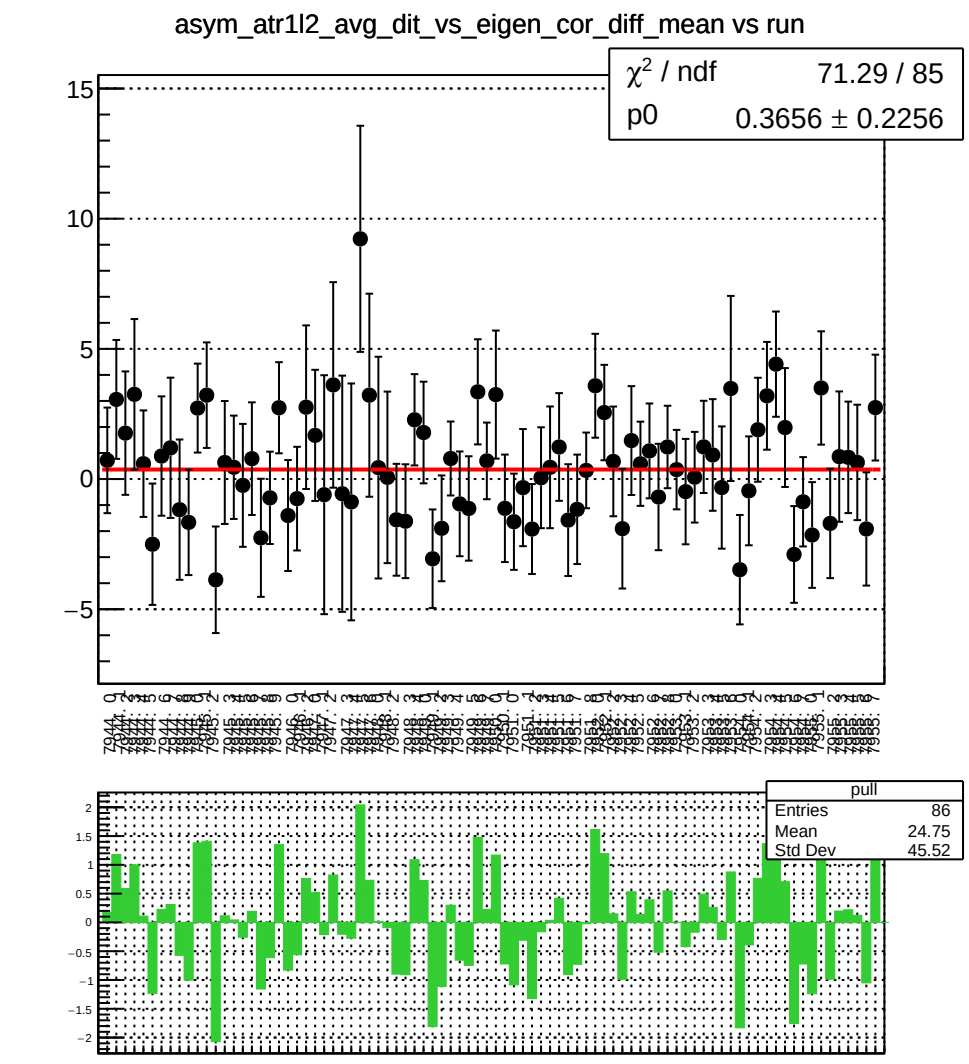

pull1D
Entries 86
Mean 0.1068
Std Dev 1.029

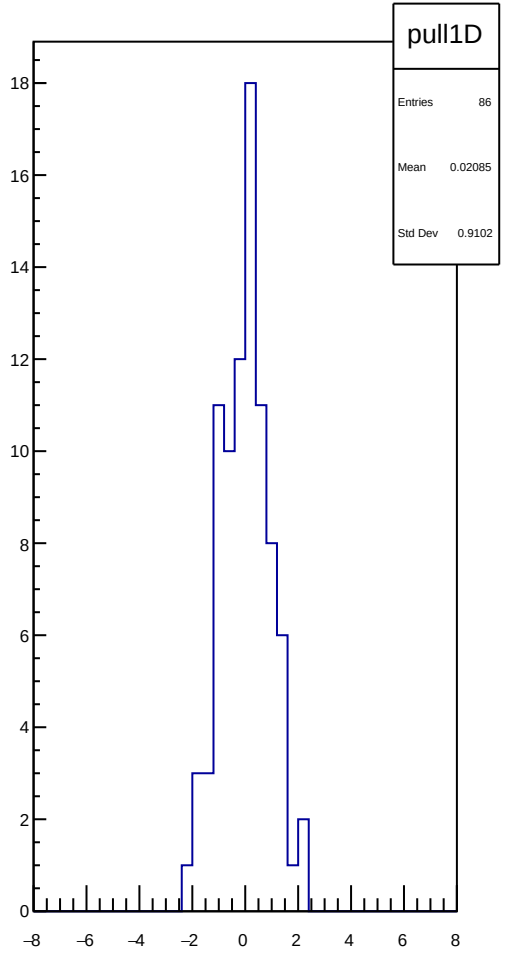

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.003e+06 / 85
p0 3.691e−10 ± 4.704e−13
1
0.8
0.6
0.4
0.2
0

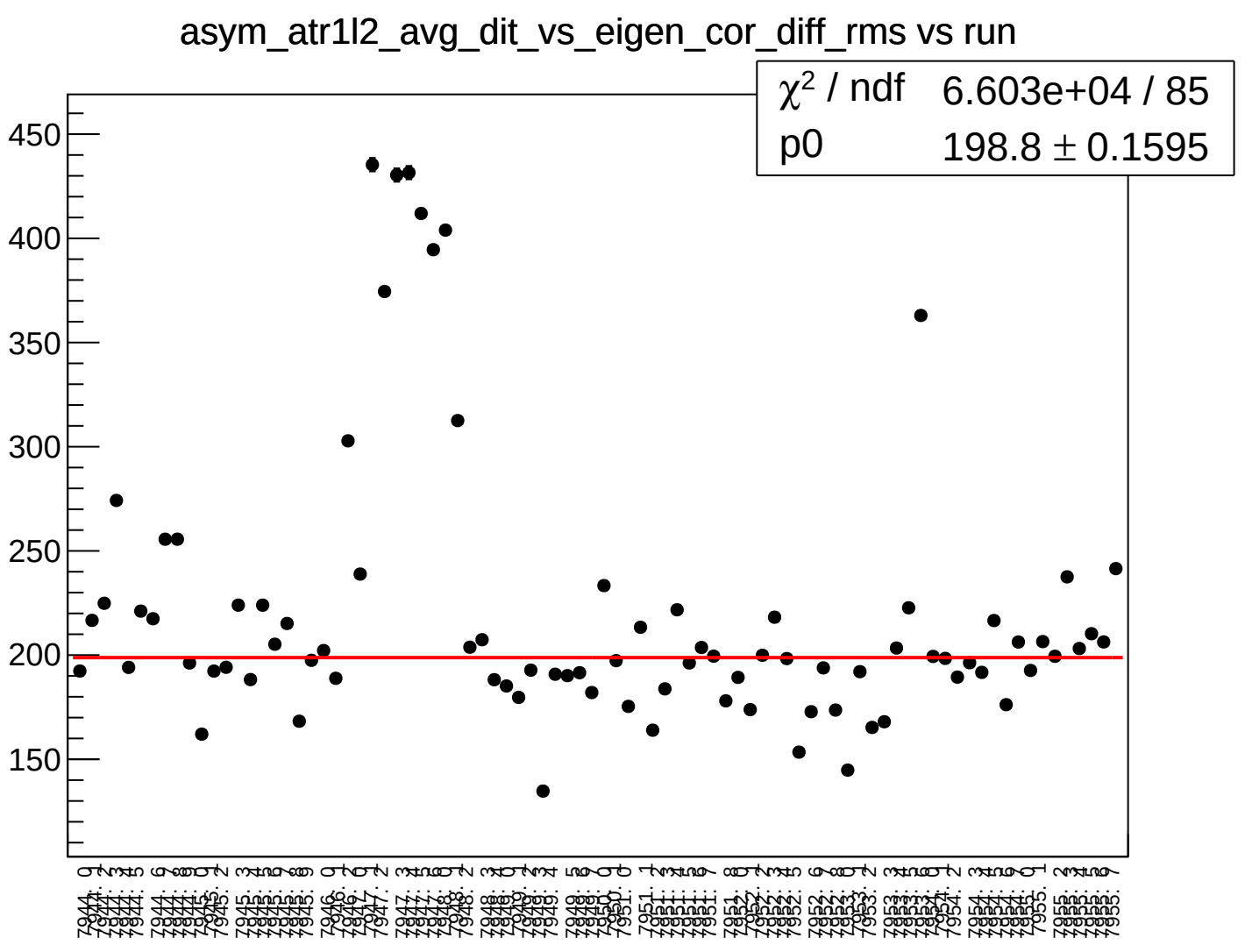

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.29 / 85
p0 0.3656 ± 0.2256
pull
Entries 86
Mean 24.75
Std Dev 45.52

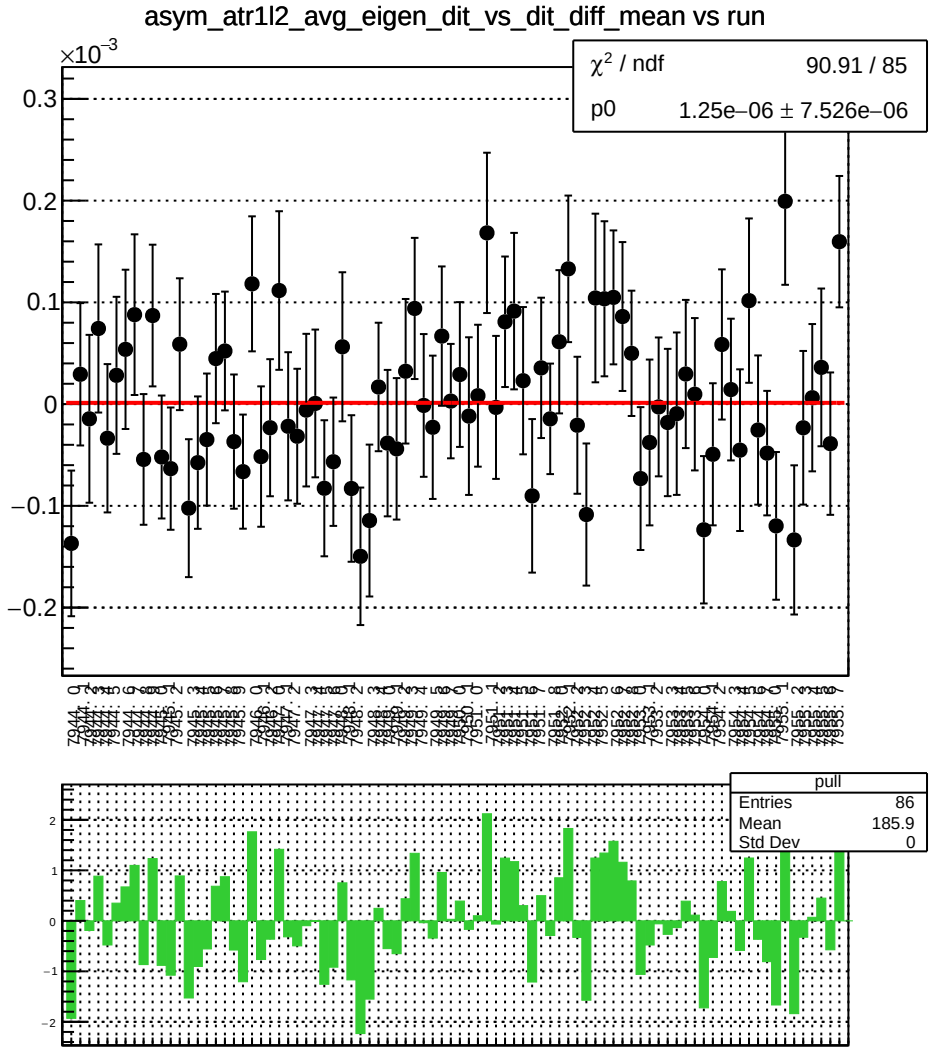

pull1D
Entries 86
Mean 0.02085
Std Dev 0.9102

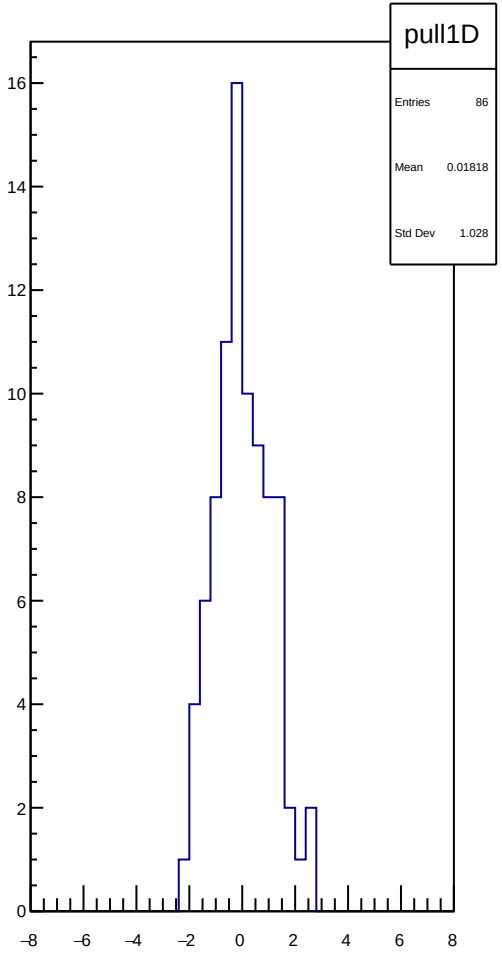

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.603e+04 / 85
p0 198.8 ± 0.1595
450
400
350
300
250
200
150

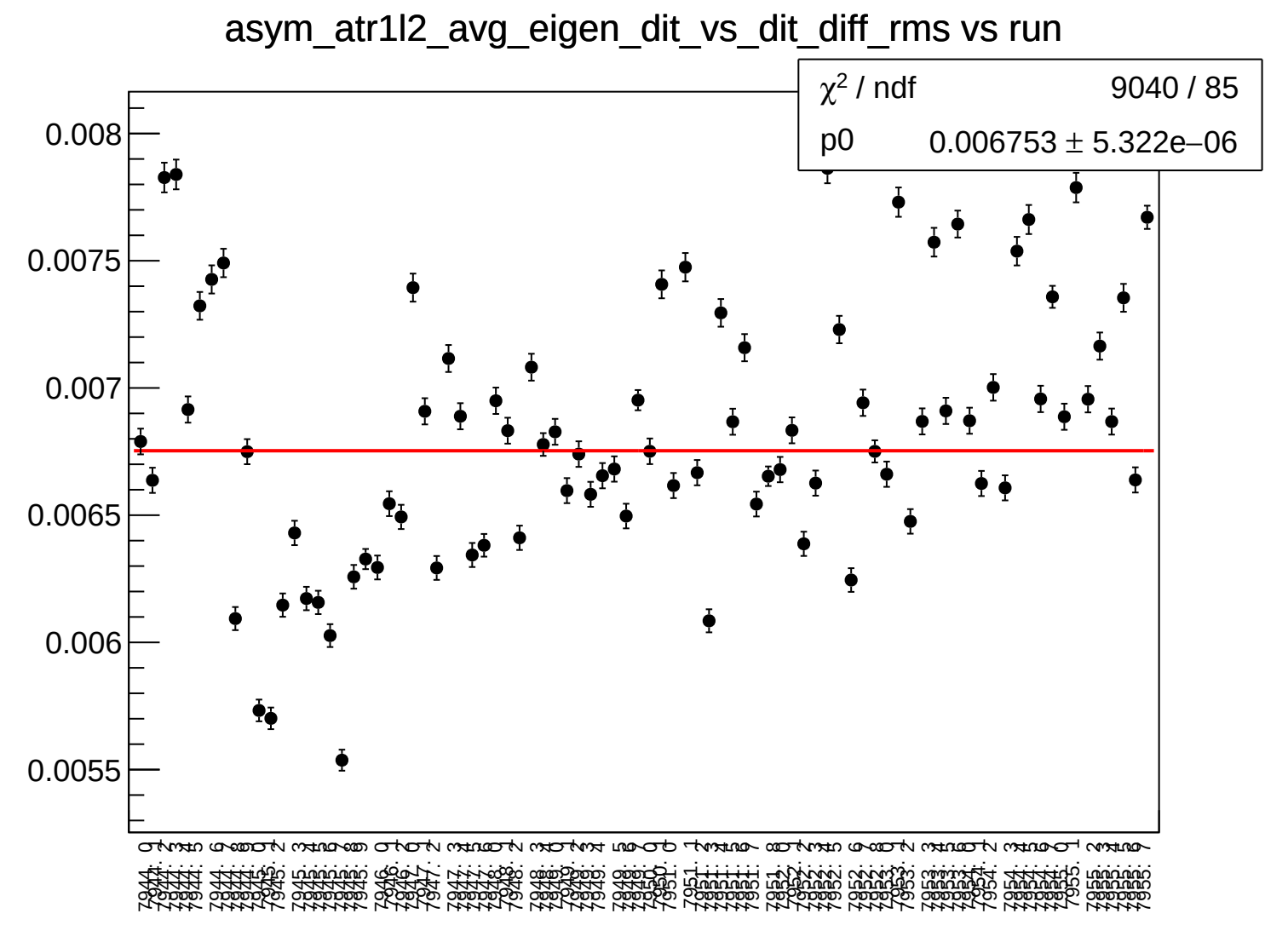

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.29 / 85
p0 0.3656 ± 0.2256
pull
Entries 86
Mean 24.75
Std Dev 45.52

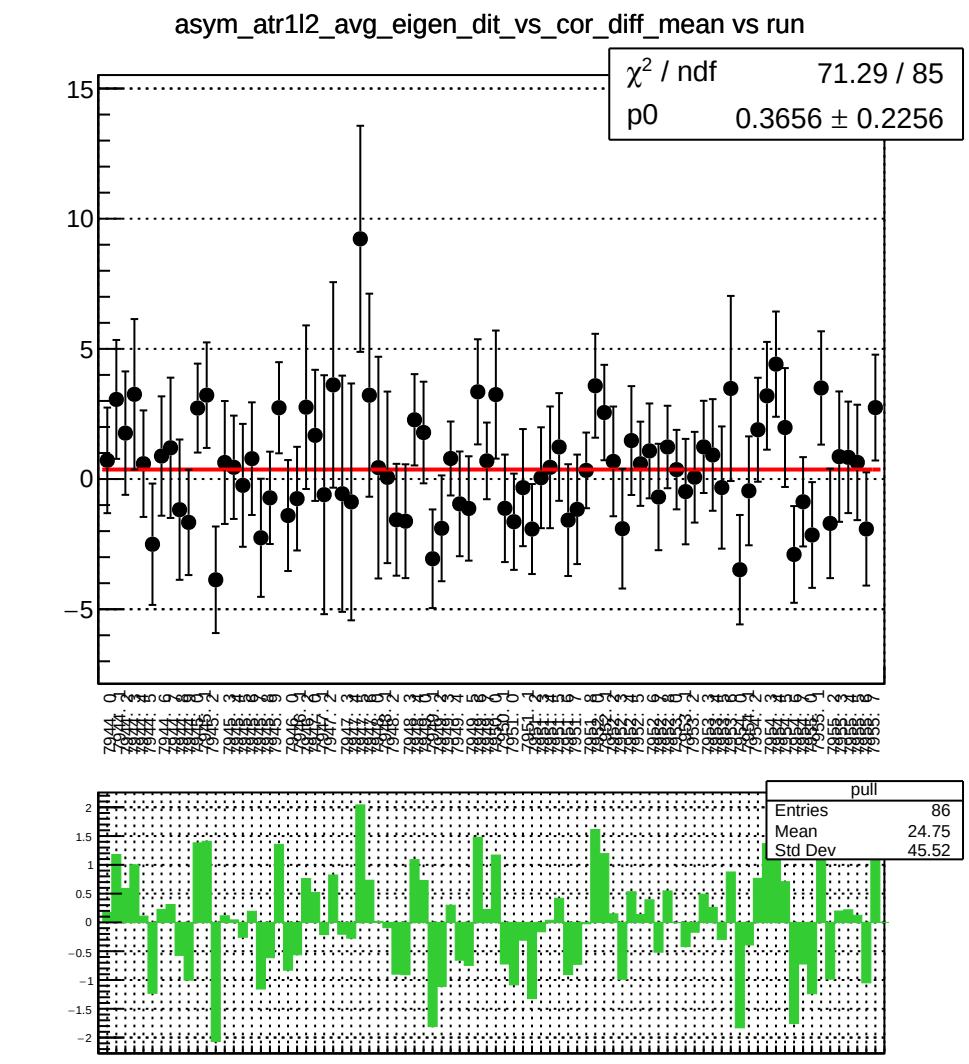

pull1D
Entries 86
Mean 0.02085
Std Dev 0.9102

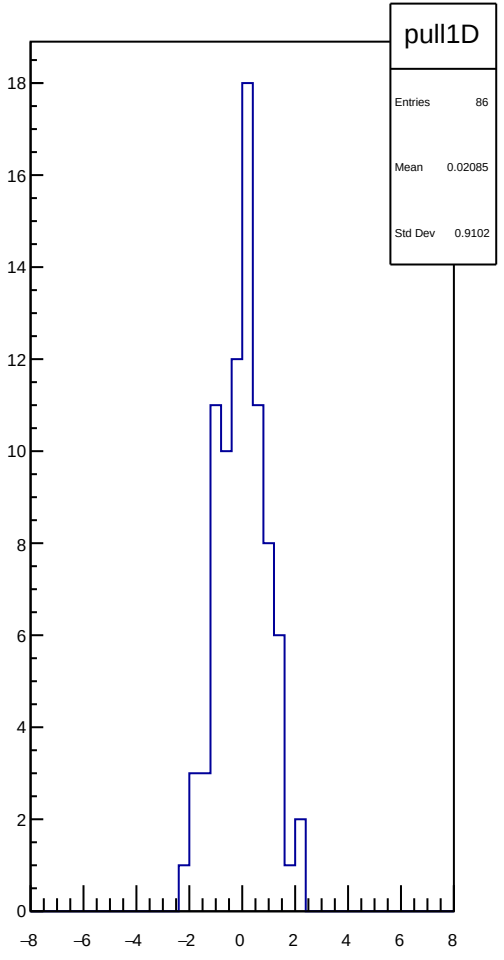

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.603e+04 / 85
p0 198.8 ± 0.1595
450
400
350
300
250
200
150

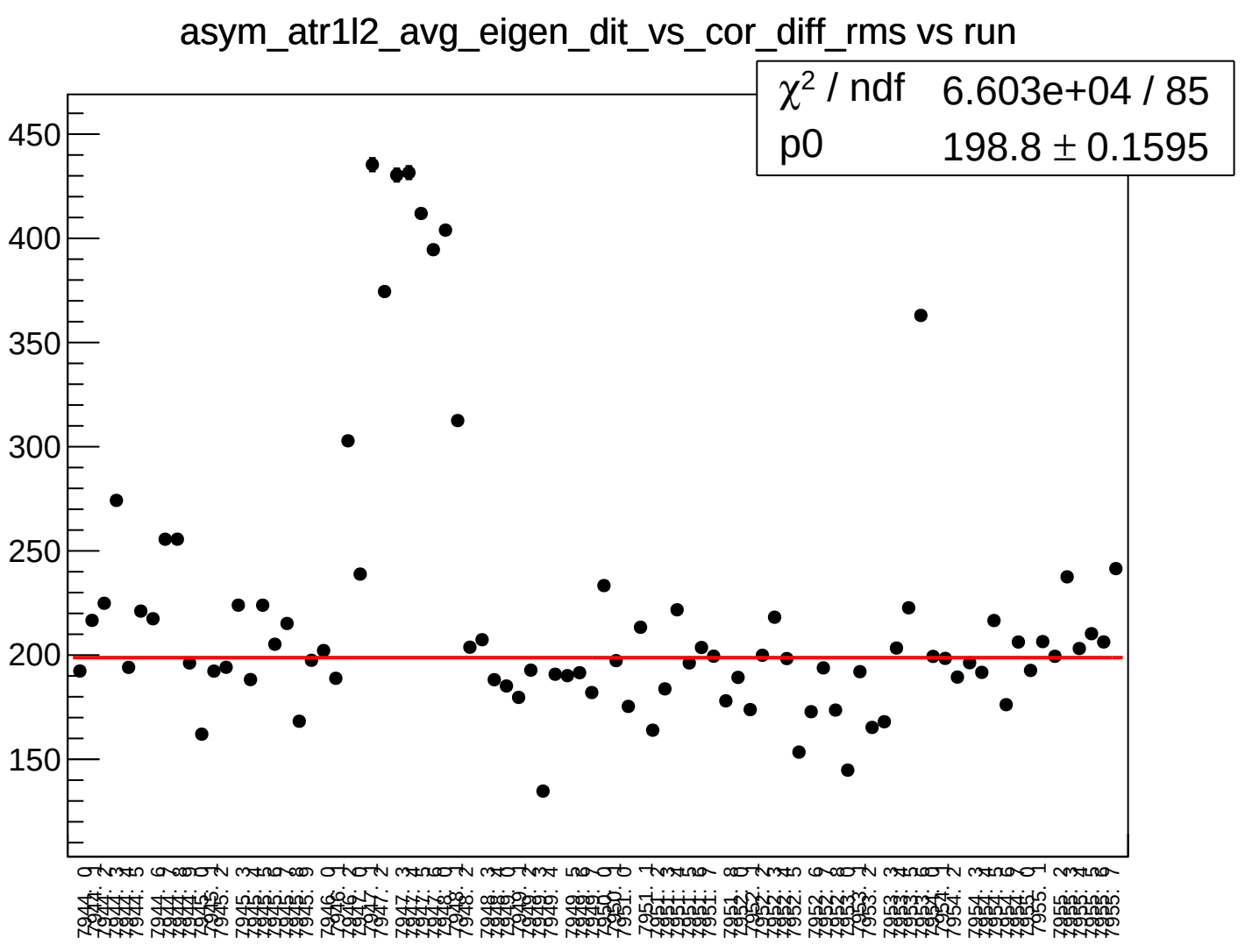

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.91 / 85
p0 1.25e−06 ± 7.526e−06
pull
Entries 86
Mean 185.9
Std Dev 0

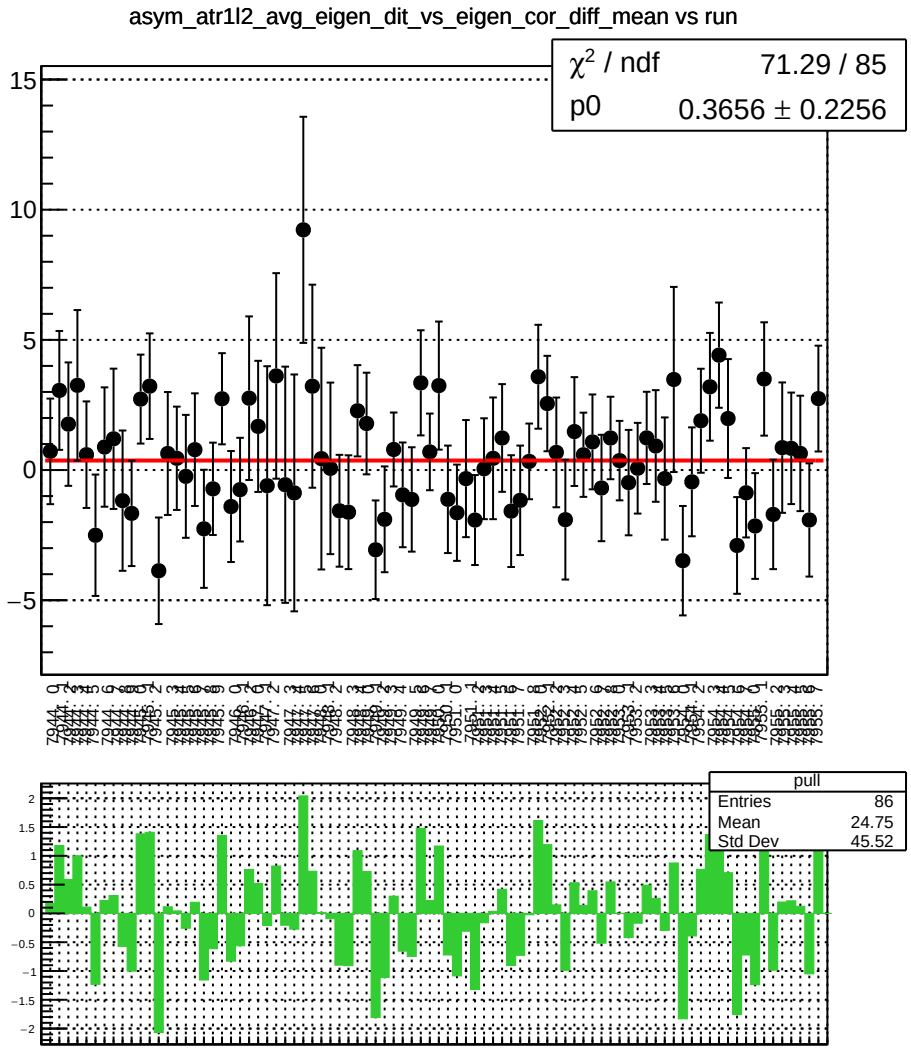

pull1D
Entries 86
Mean 0.01818
Std Dev 1.028

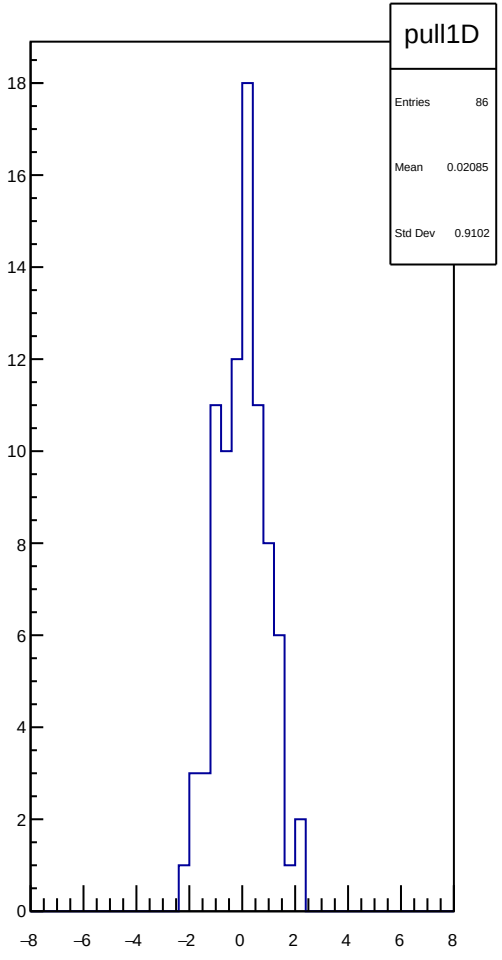

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9040 / 85
p0 0.006753 ± 5.322e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

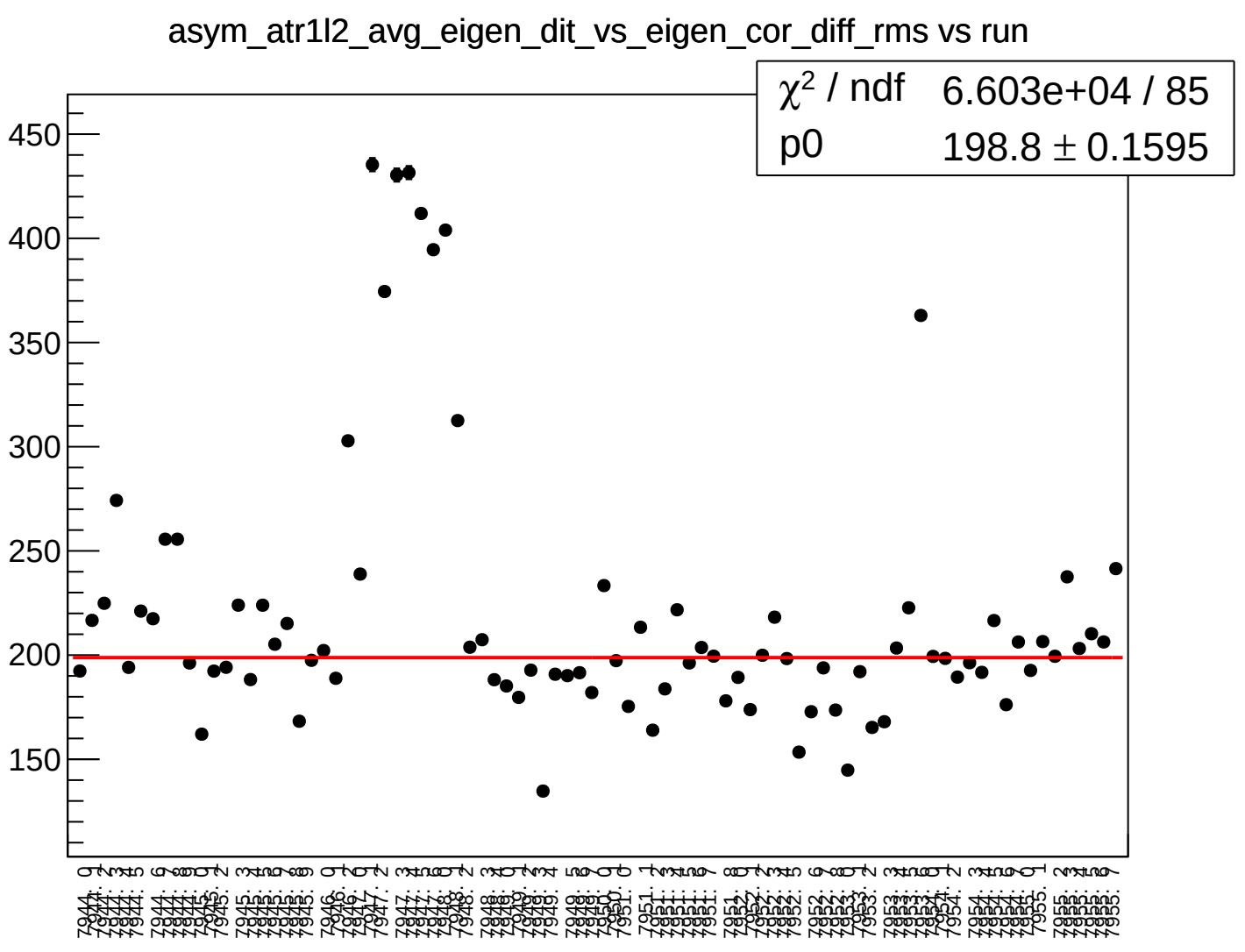

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.29 / 85
p0 0.3656 ± 0.2256
pull
Entries 86
Mean 24.75
Std Dev 45.52

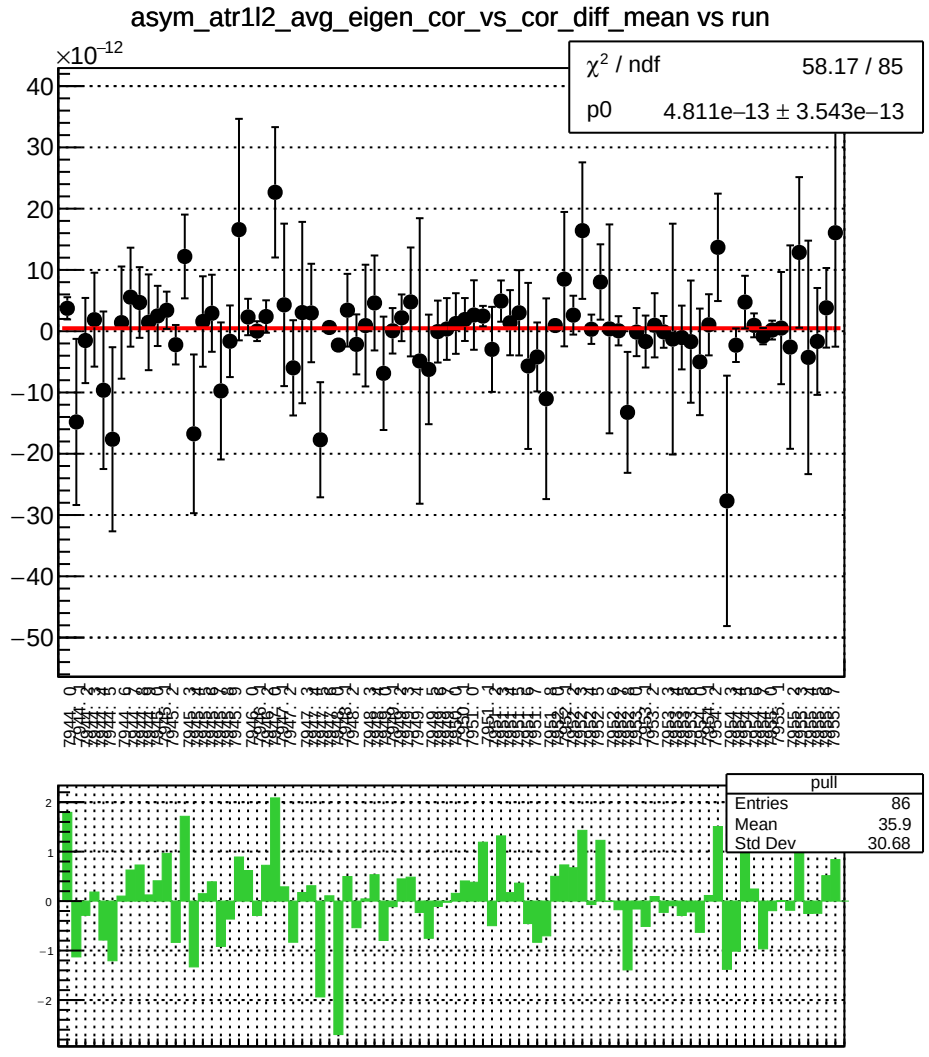

pull1D
Entries 86
Mean 0.02085
Std Dev 0.9102

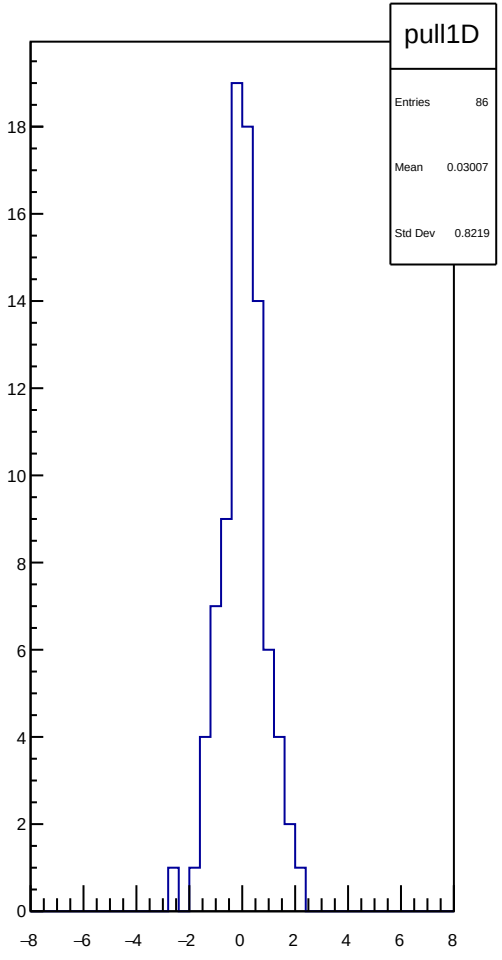

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.603e+04 / 85
p0 198.8 ± 0.1595
450
400
350
300
250
200
150

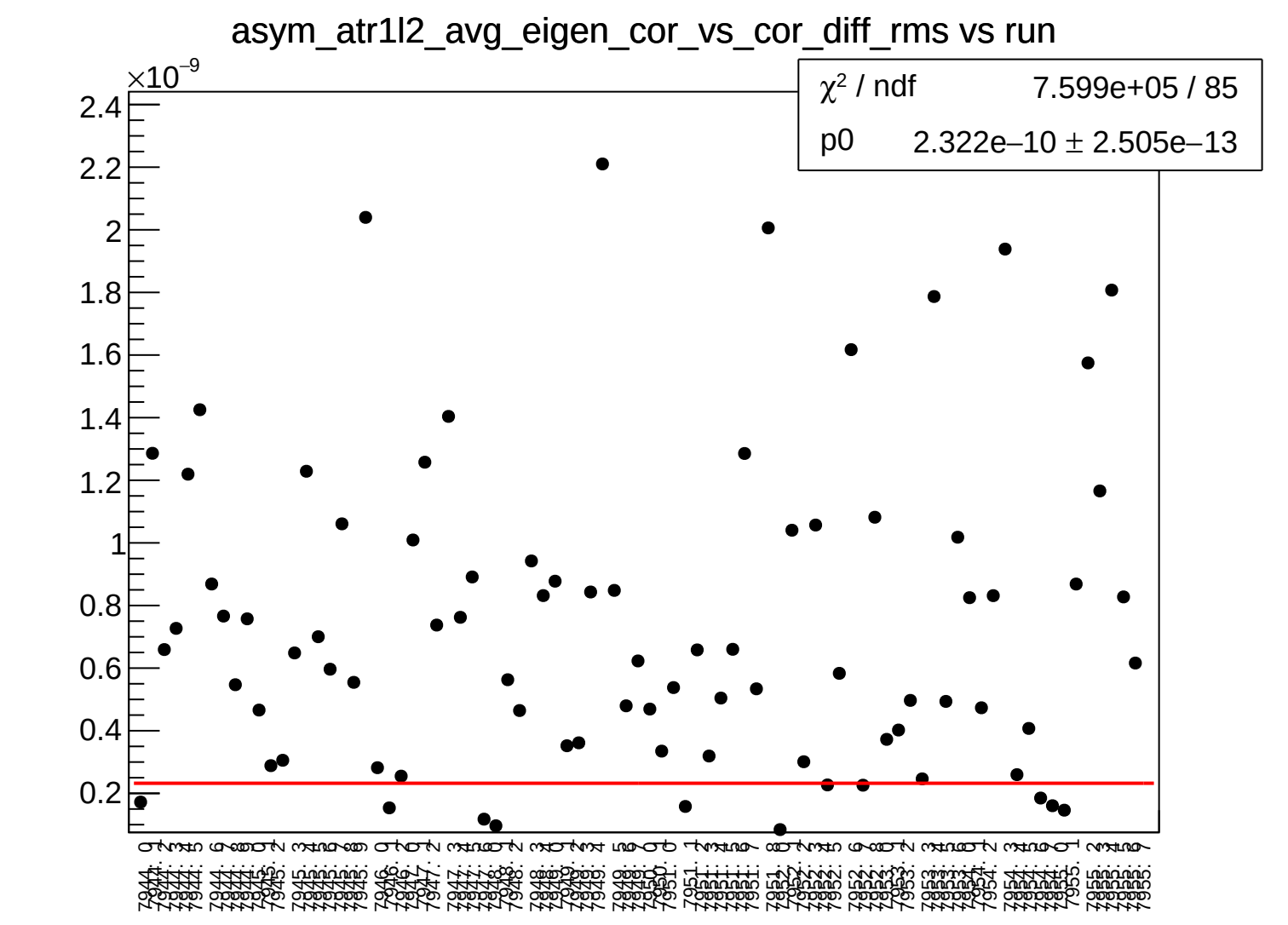

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.29 / 85
p0 0.3656 ± 0.2256
pull
Entries 86
Mean 24.75
Std Dev 45.52

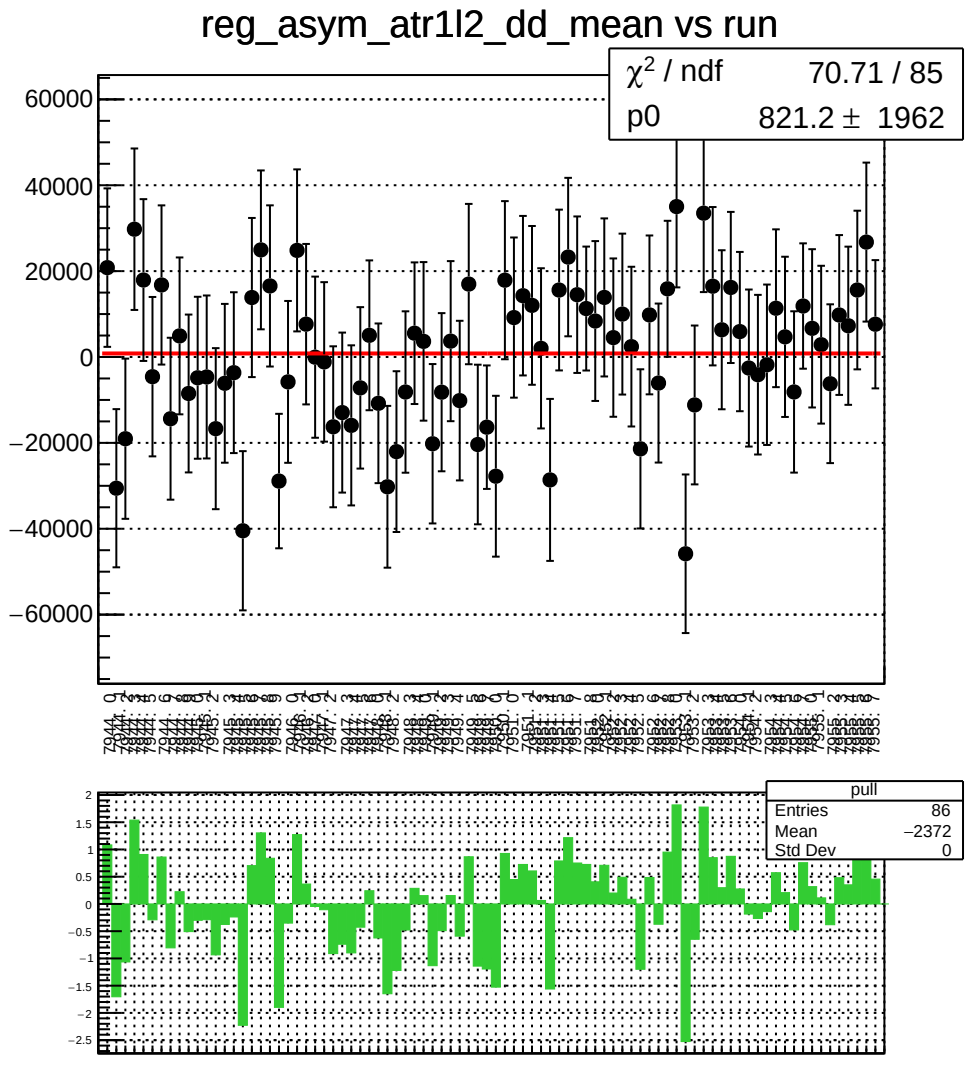

pull1D
Entries 86
Mean 0.02085
Std Dev 0.9102

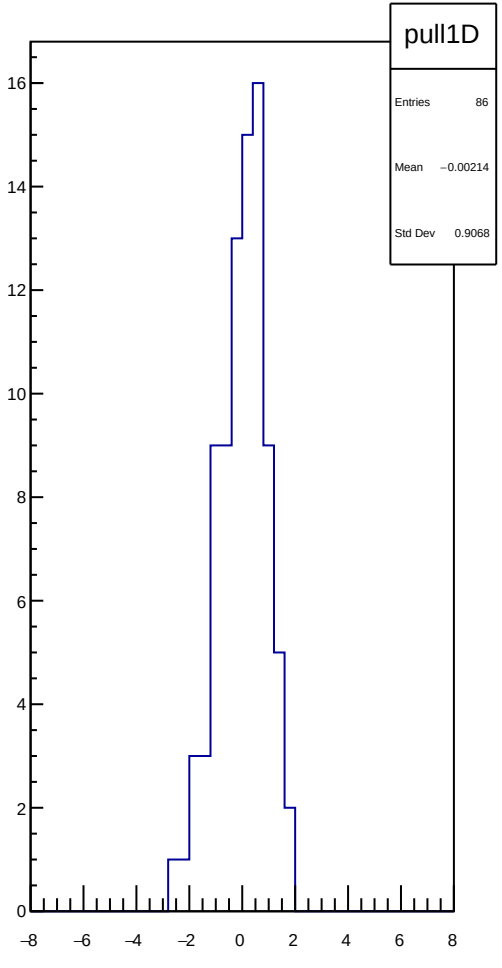

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.603e+04 / 85
p0 198.8 ± 0.1595
450
400
350
300
250
200
150

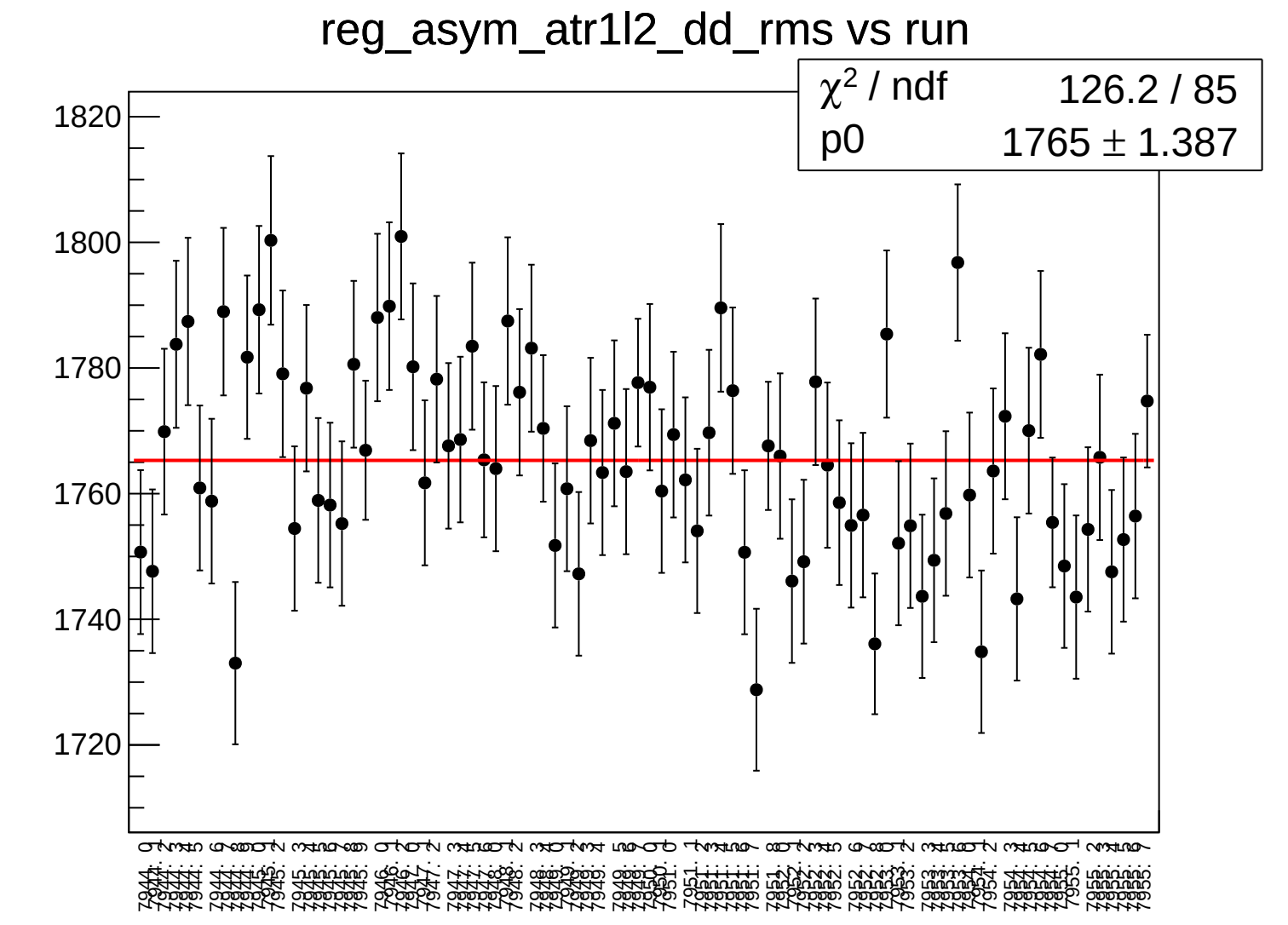

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.17 / 85
p0 4.811e−13 ± 3.543e−13
pull
Entries 86
Mean 35.9
Std Dev 30.68

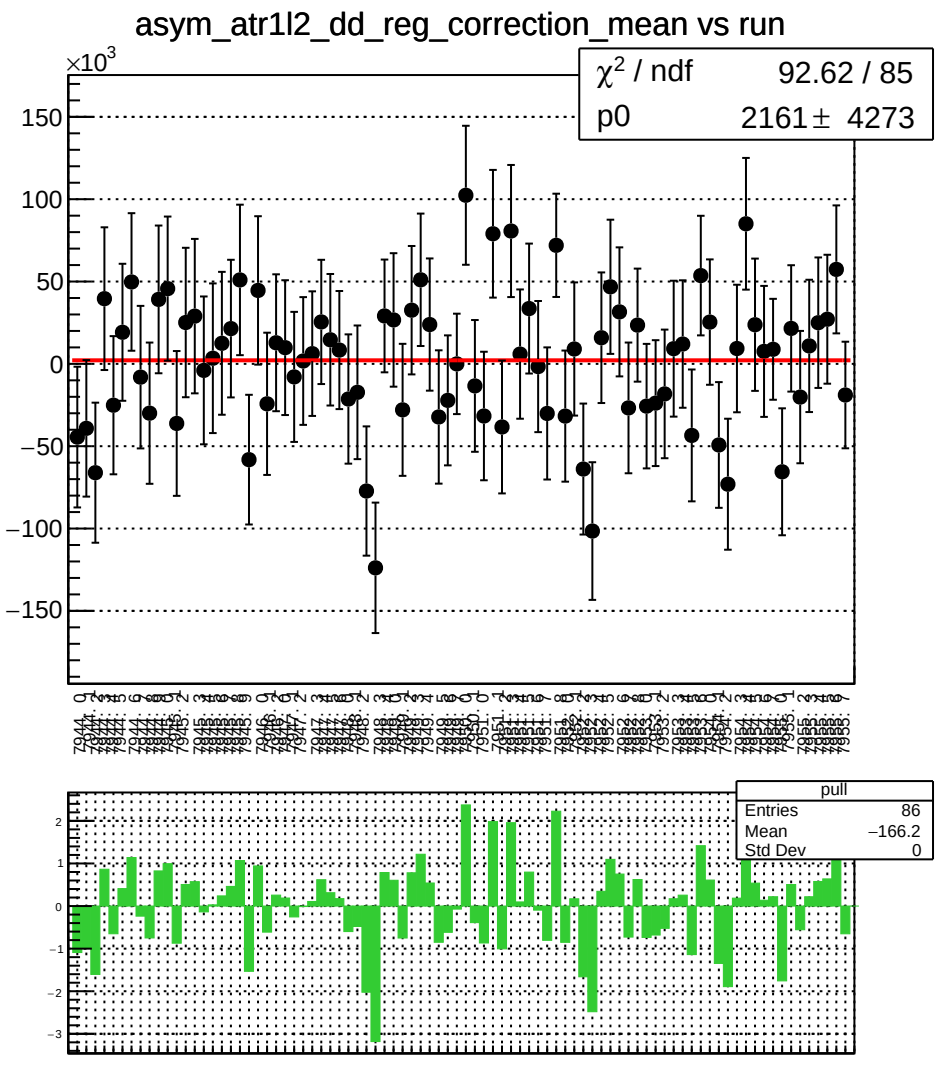

pull1D
Entries 86
Mean 0.03007
Std Dev 0.8219

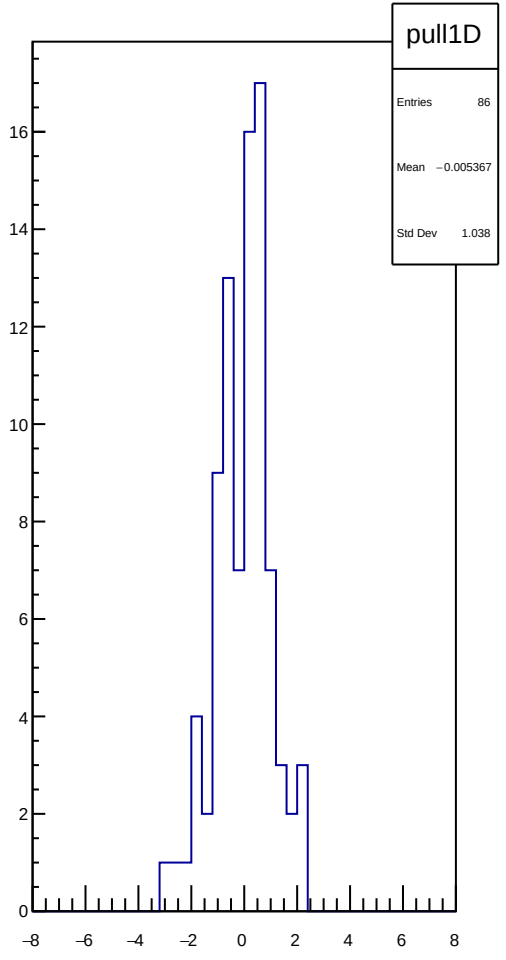

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.599e+05 / 85
p0 2.322e−10 ± 2.505e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

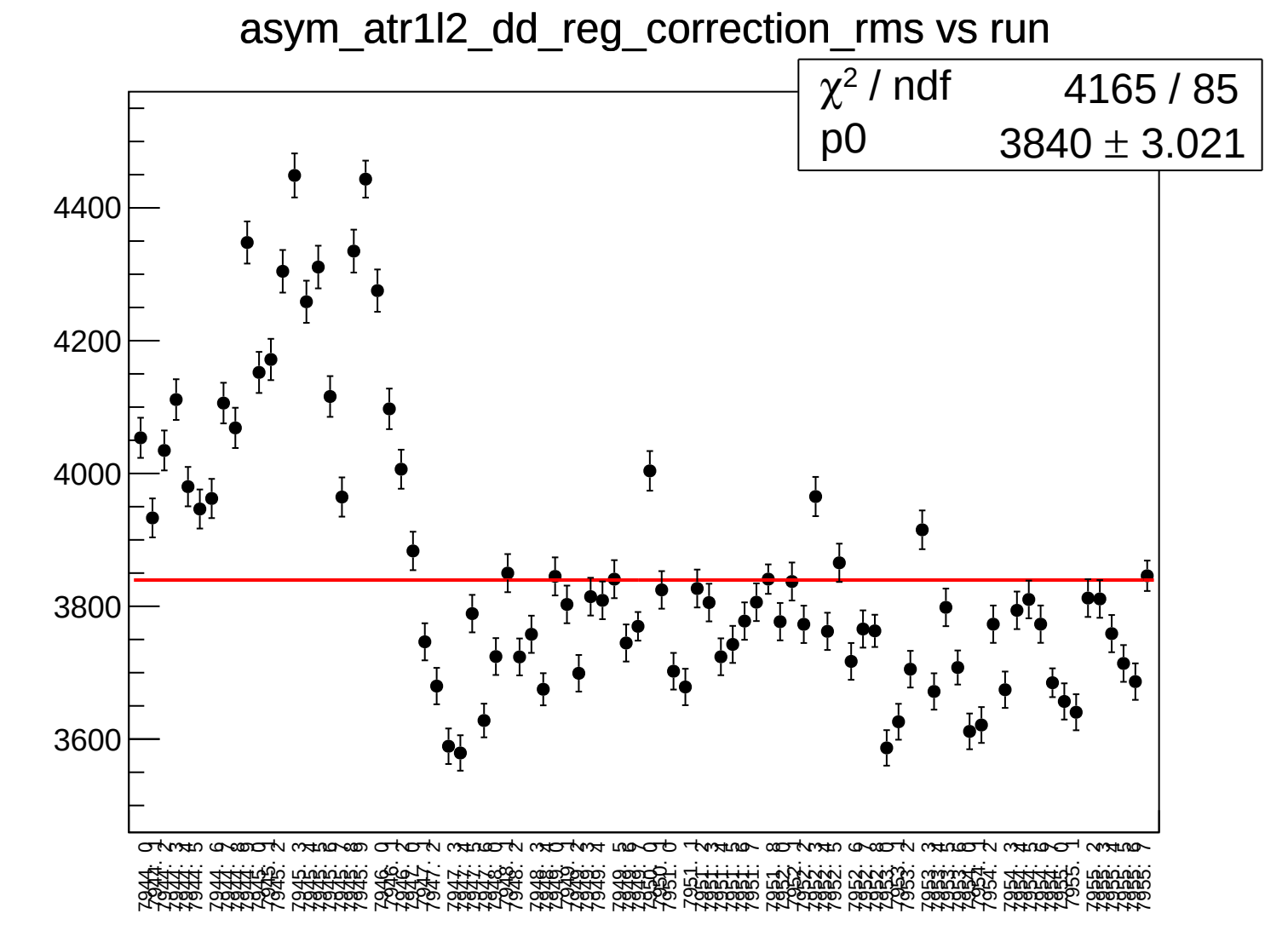

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 70.71 / 85
p0 821.2 ± 1962
pull
Entries 86
Mean −2372
Std Dev 0

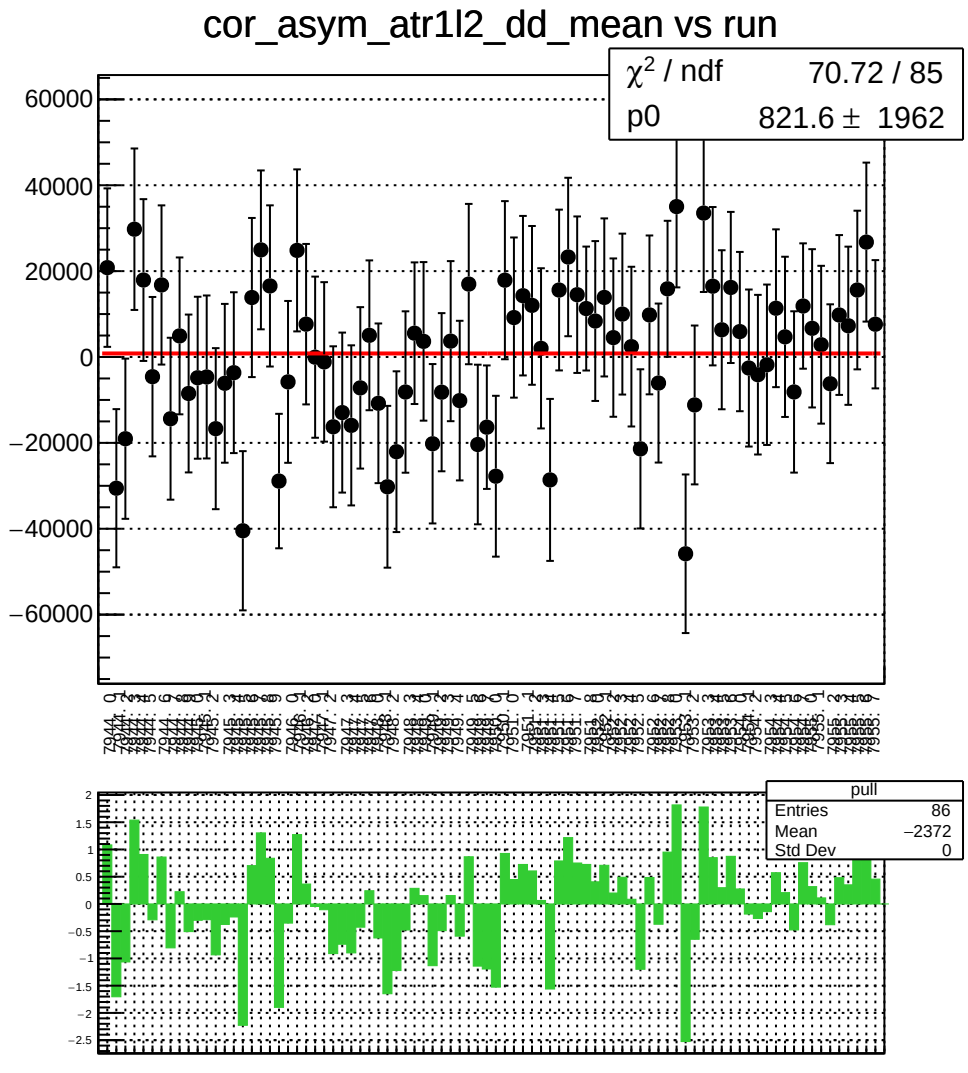

pull1D
Entries 86
Mean −0.00214
Std Dev 0.9068

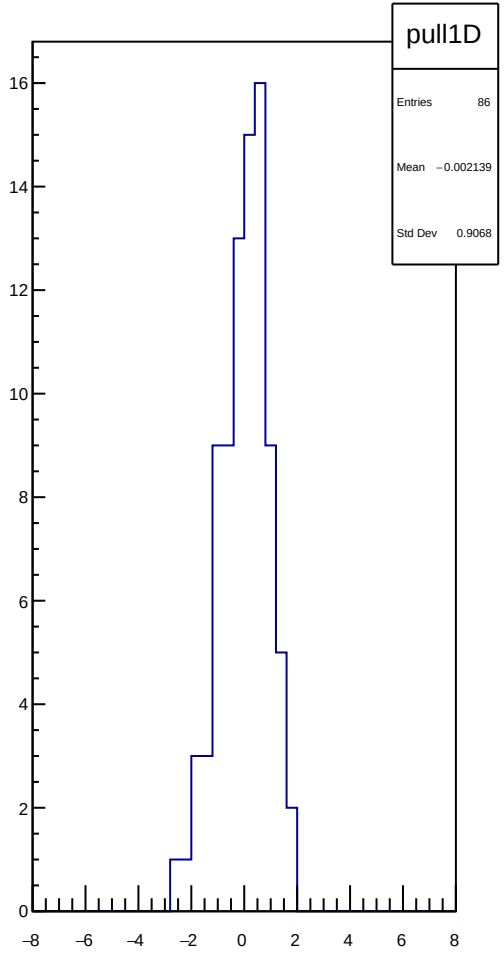

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 126.2 / 85
p0 1765 ± 1.387
1820
1800
1780
1760
1740
1720

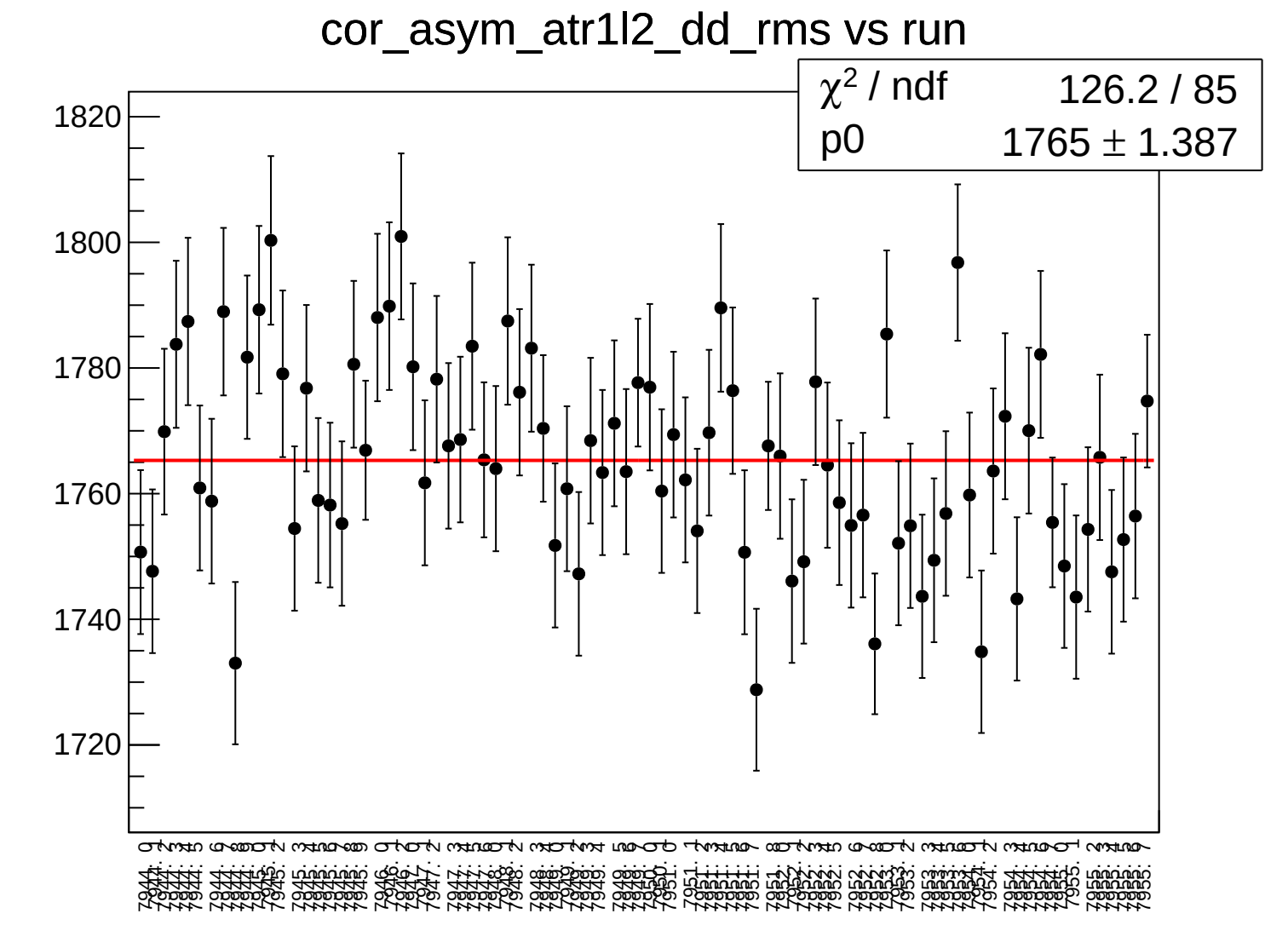

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92.62 / 85
p0 2161 ± 4273
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −166.2
Std Dev 0
2
1
0
−1
−2
−3

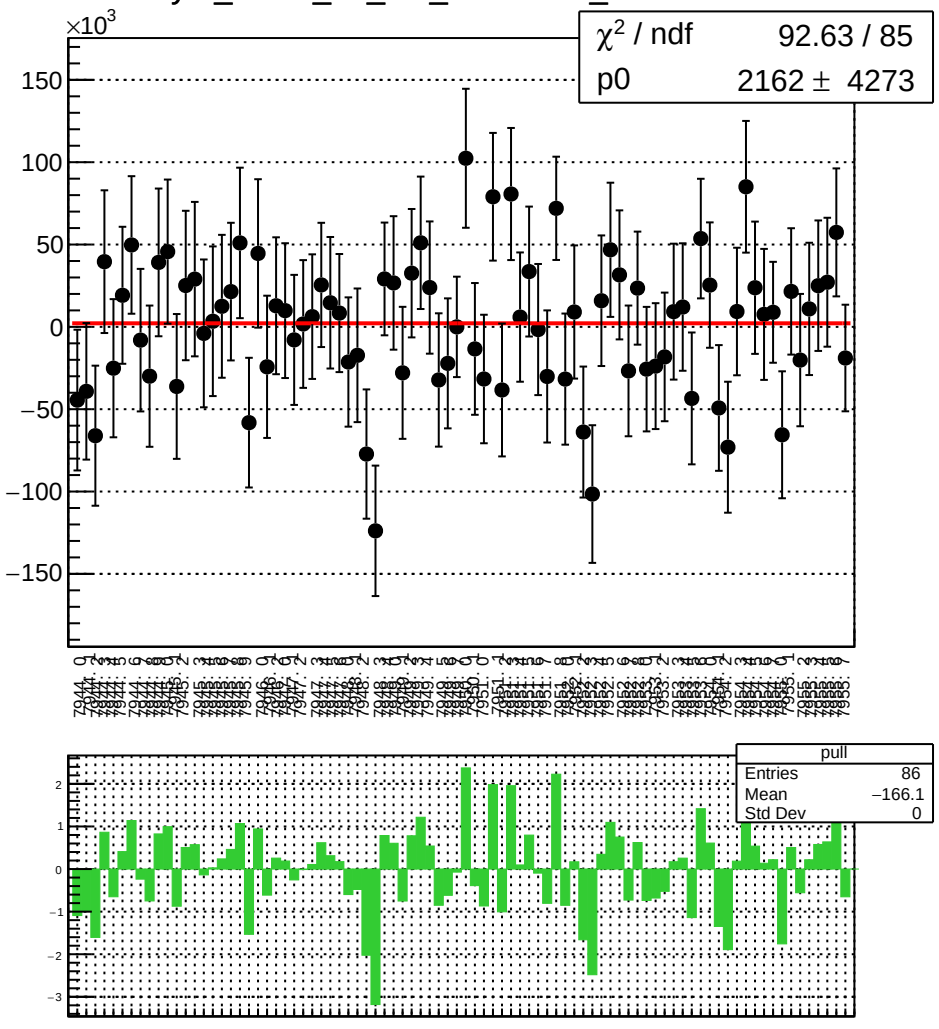

pull1D
Entries 86
Mean −0.005367
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

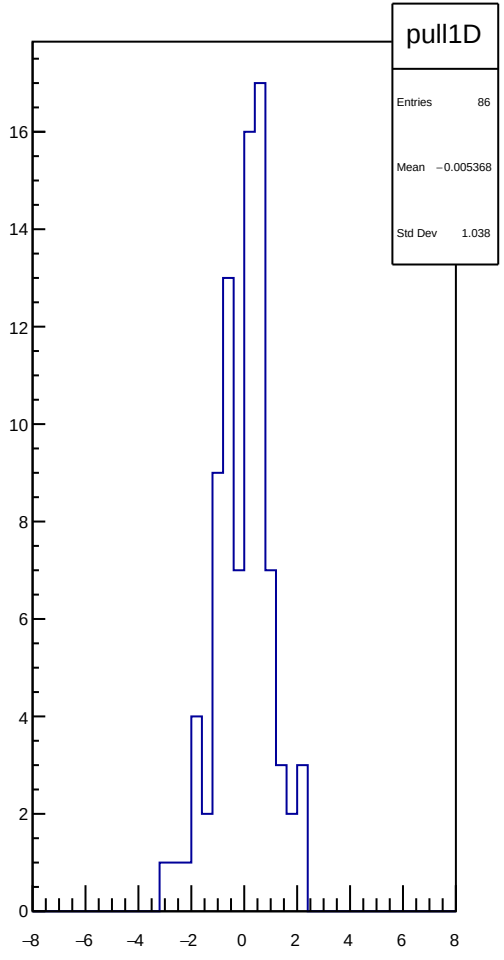

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 4165 / 85
p0 3840 ± 3.021
4400
4200
4000
3800
3600

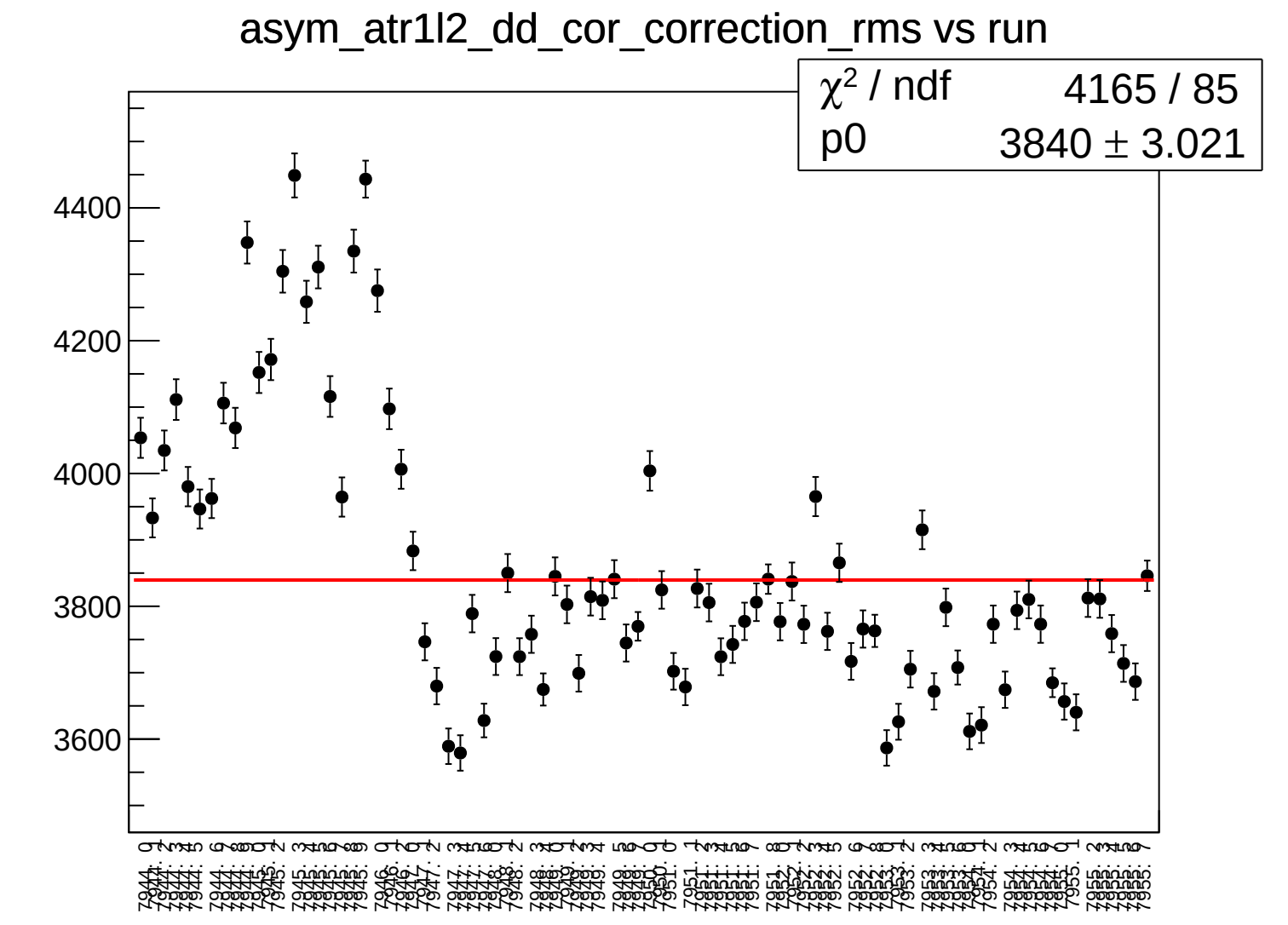

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 70.72 / 85
p0 821.6 ± 1962
pull
Entries 86
Mean −2372
Std Dev 0

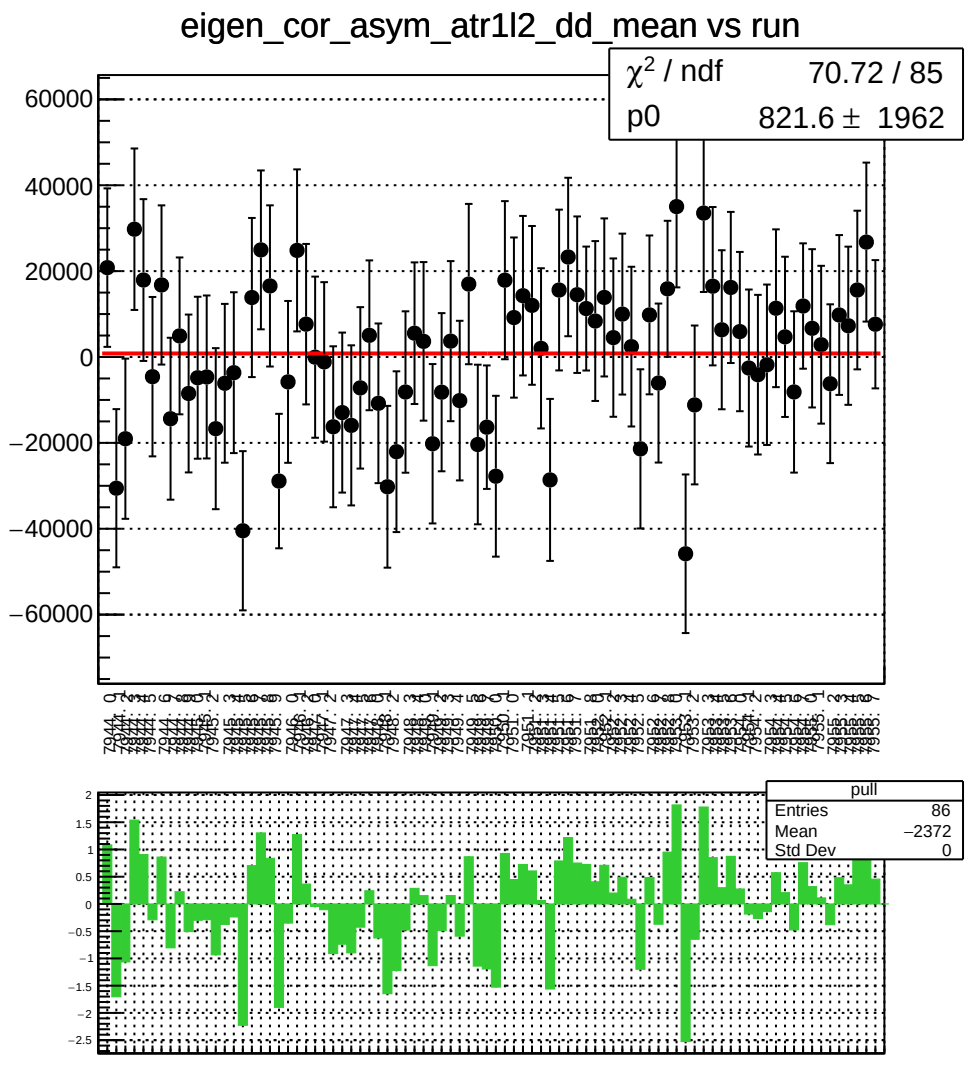

pull1D
Entries 86
Mean −0.002139
Std Dev 0.9068

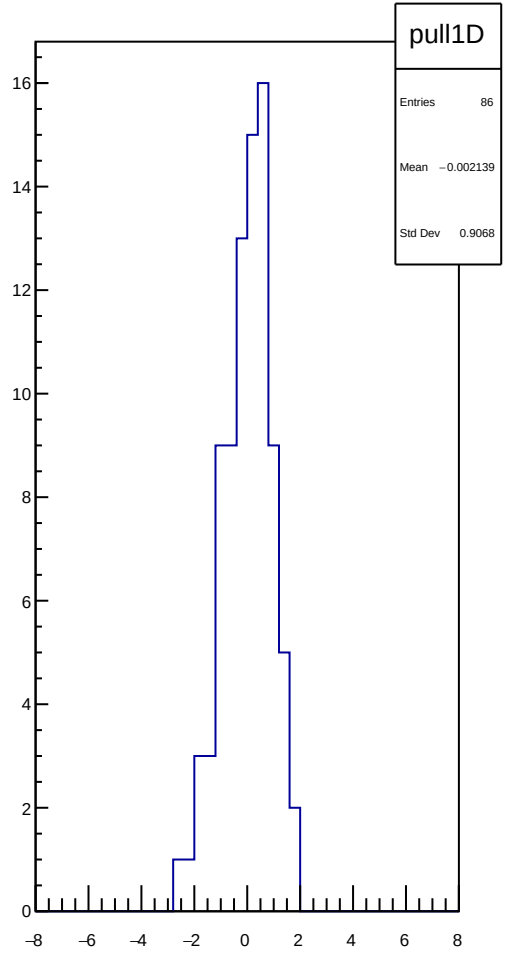

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 126.2 / 85
p0 1765 ± 1.387
1820
1800
1780
1760
1740
1720


asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.63 / 85
p0 2162 ± 4273
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −166.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.005368
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 4165 / 85
p0 3840 ± 3.021
4400
4200
4000
3800
3600


eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 70.72 / 85
p0 821.6 ± 1962
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −2372
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 86
Mean −0.002139
Std Dev 0.9068
16
14
12
10
8
6
4
2
0
−8
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−4
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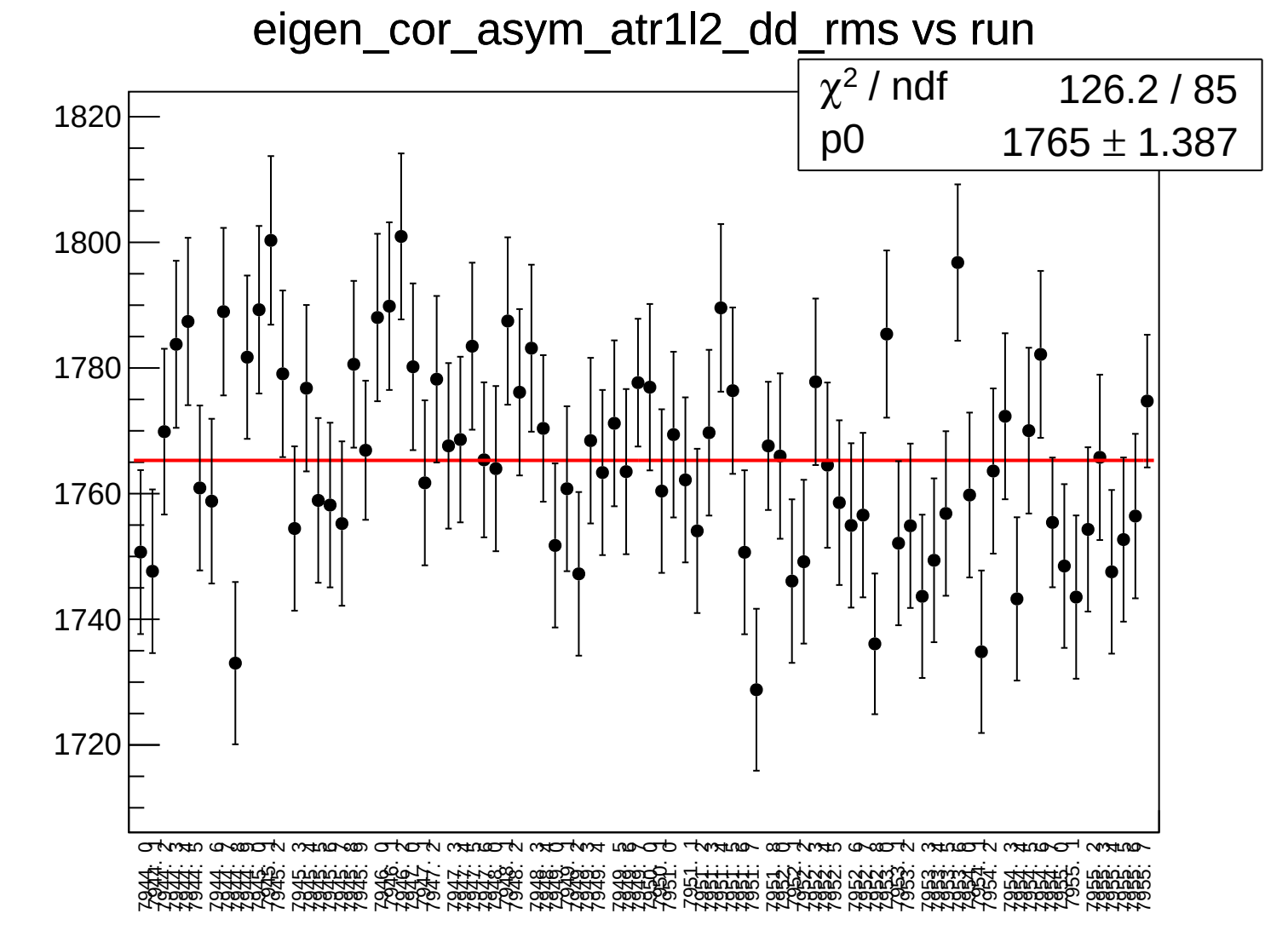
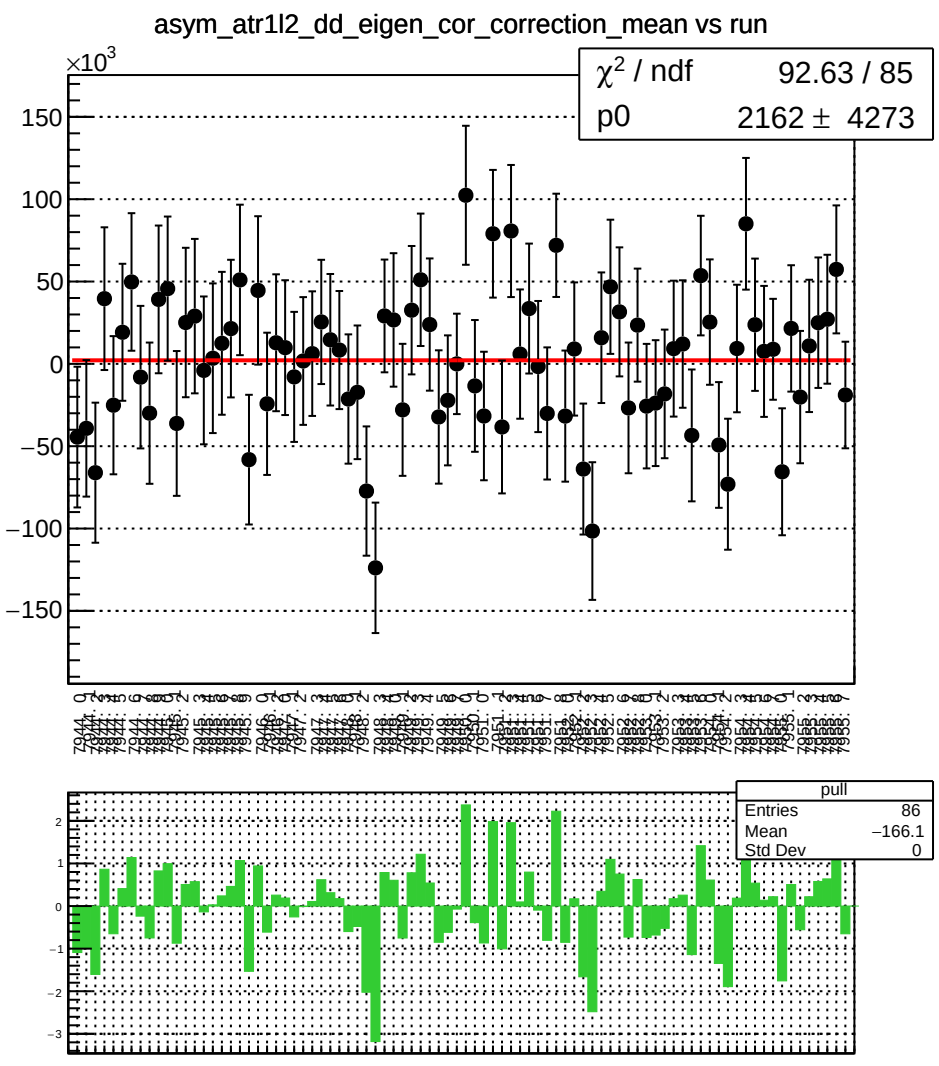
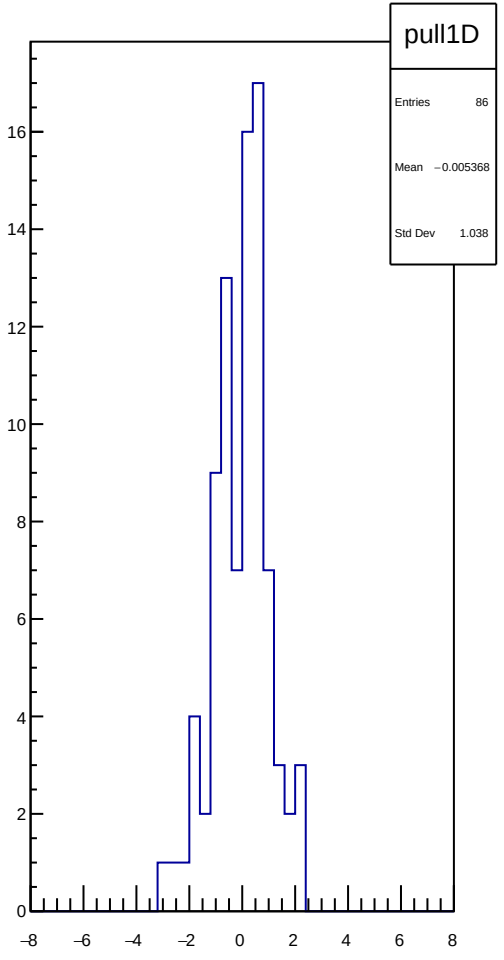
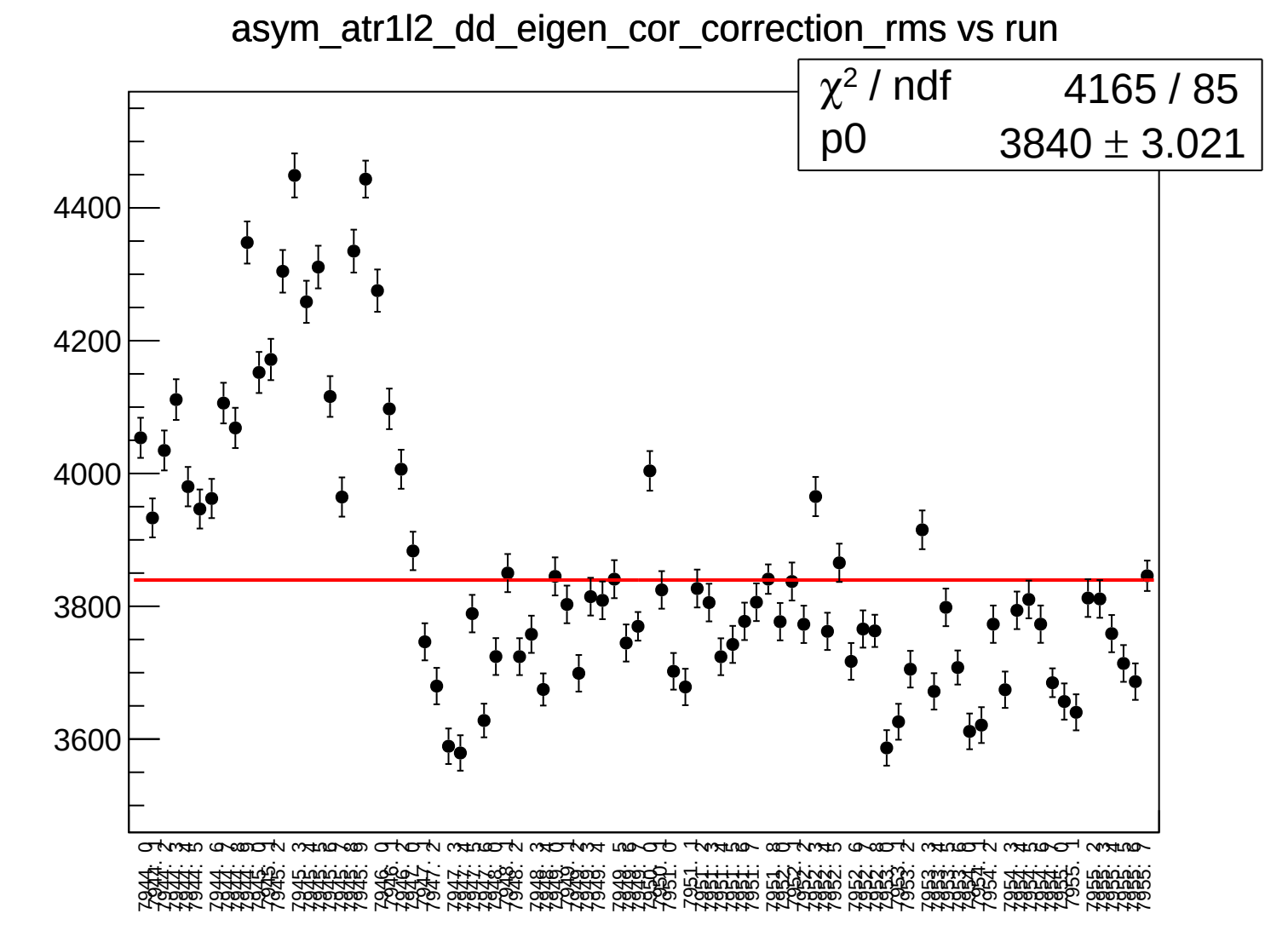
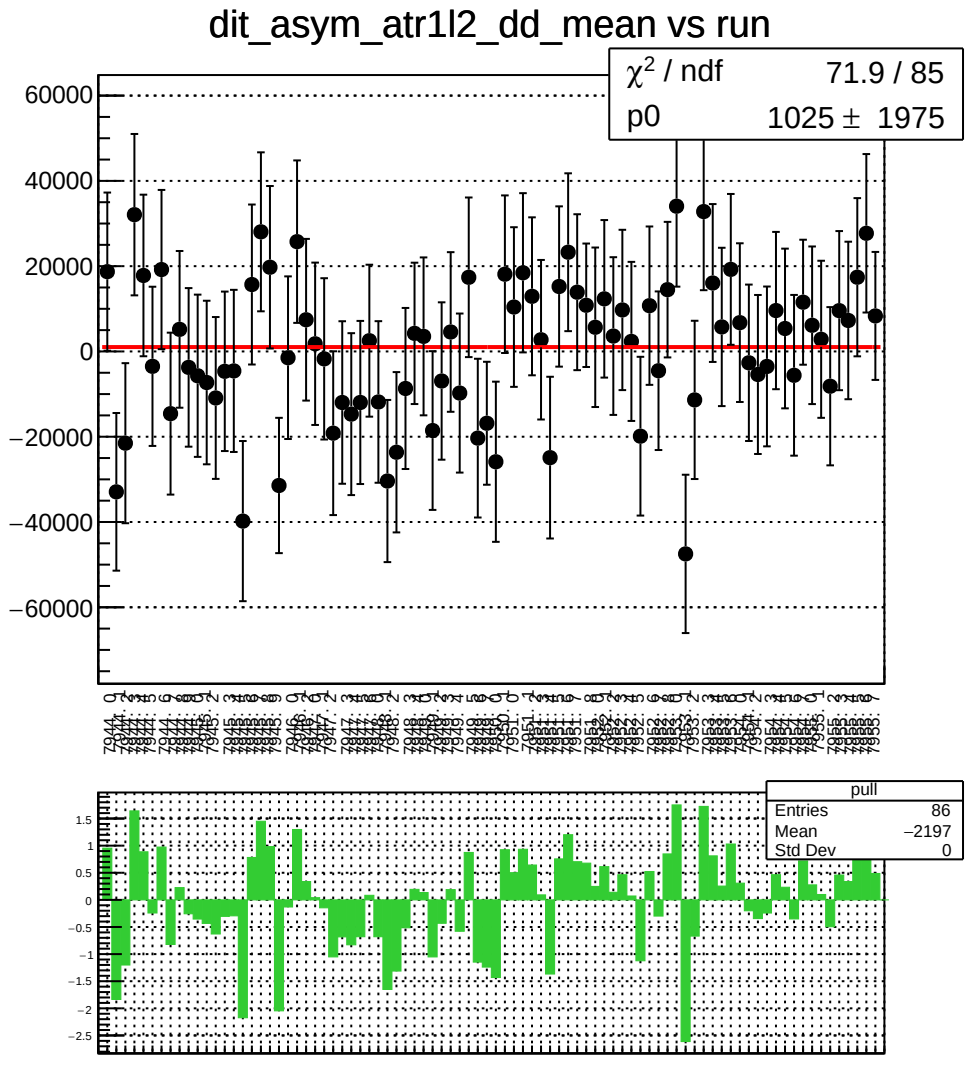
0
2
4
6
8

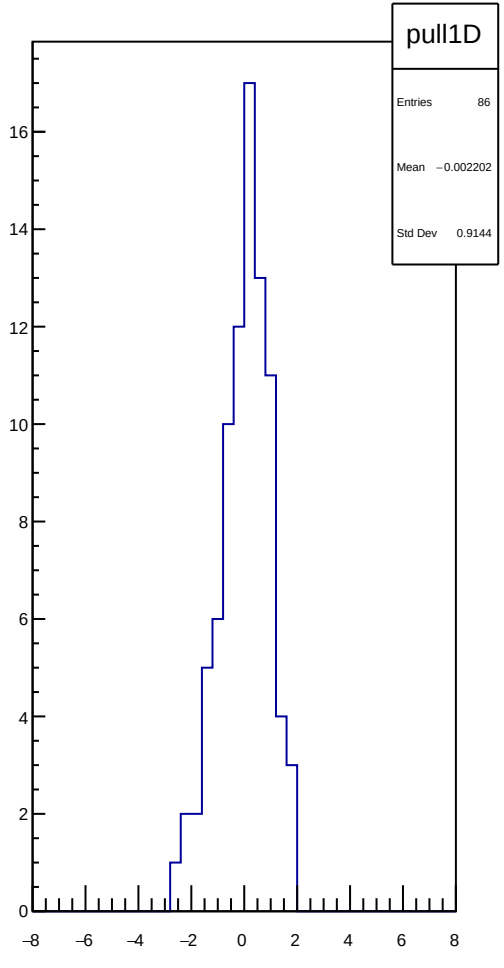

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 126.2 / 85
p0 1765 ± 1.387
1820
1800
1780
1760
1740
1720

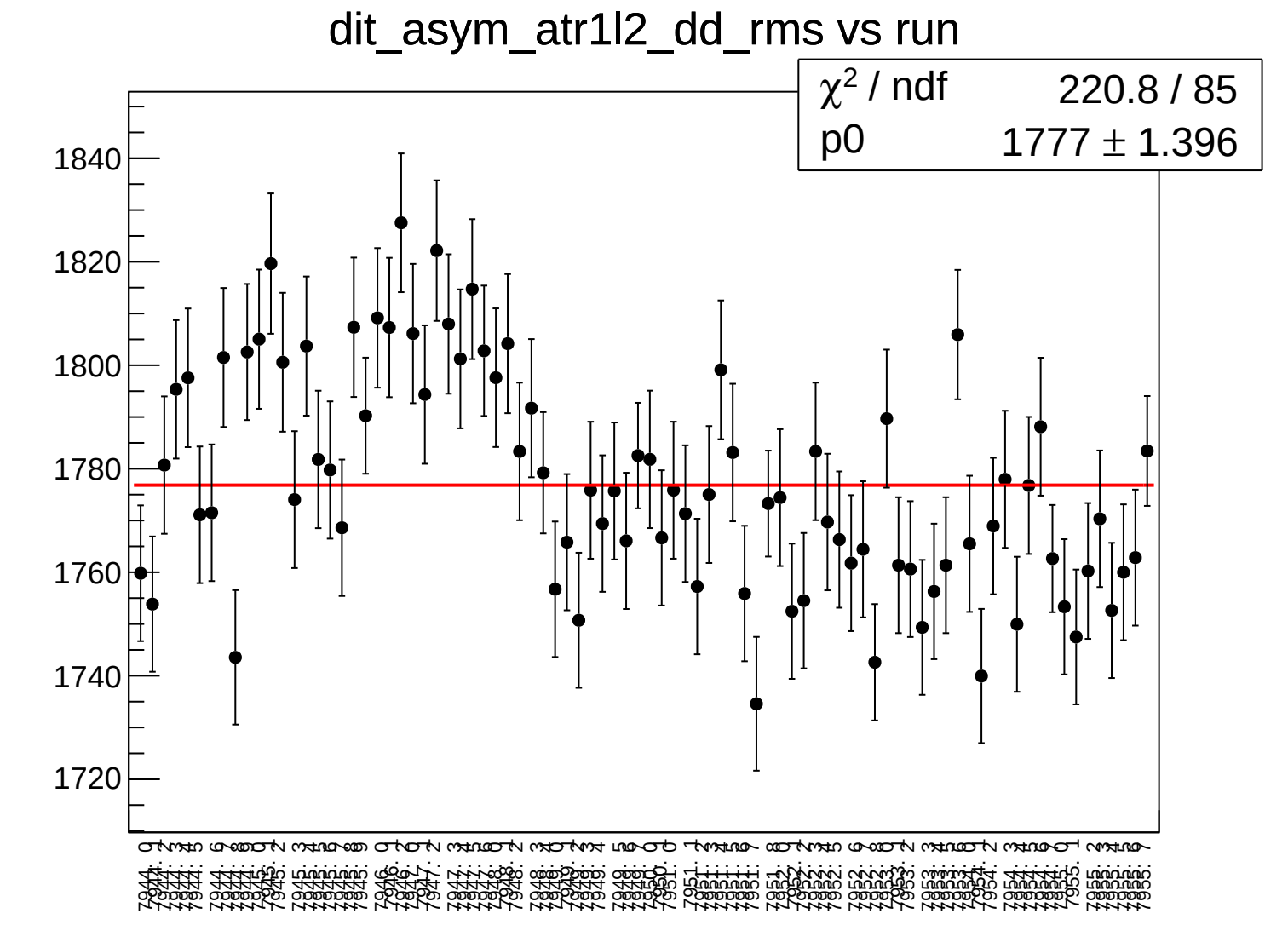

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.63 / 85
p0 2162 ± 4273
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −166.1
Std Dev 0
2
1
0
−1
−2
−3

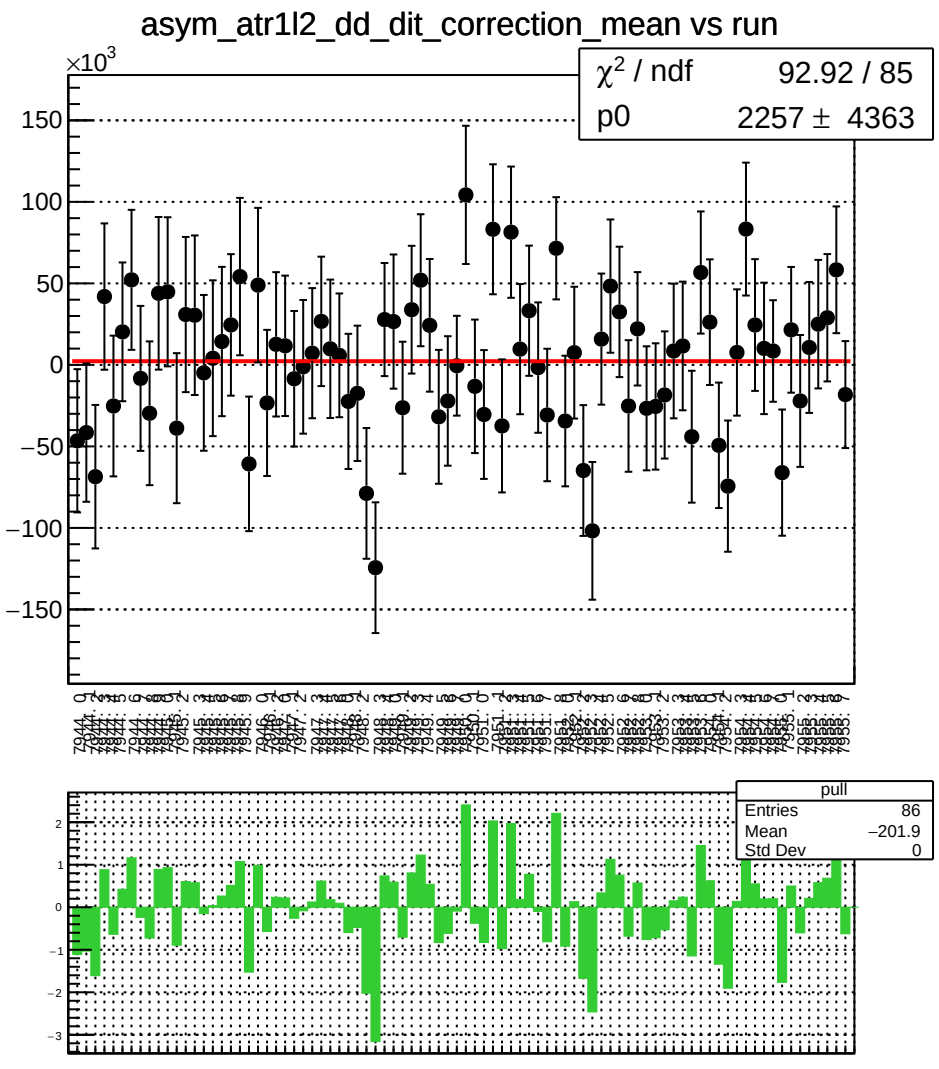

pull1D
Entries 86
Mean −0.005368
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

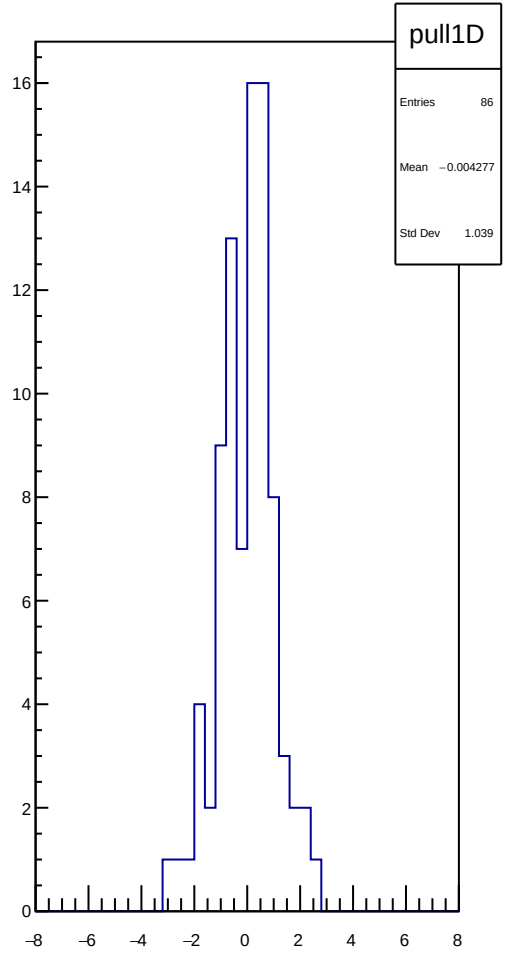

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4165 / 85
p0 3840 ± 3.021
4400
4200
4000
3800
3600

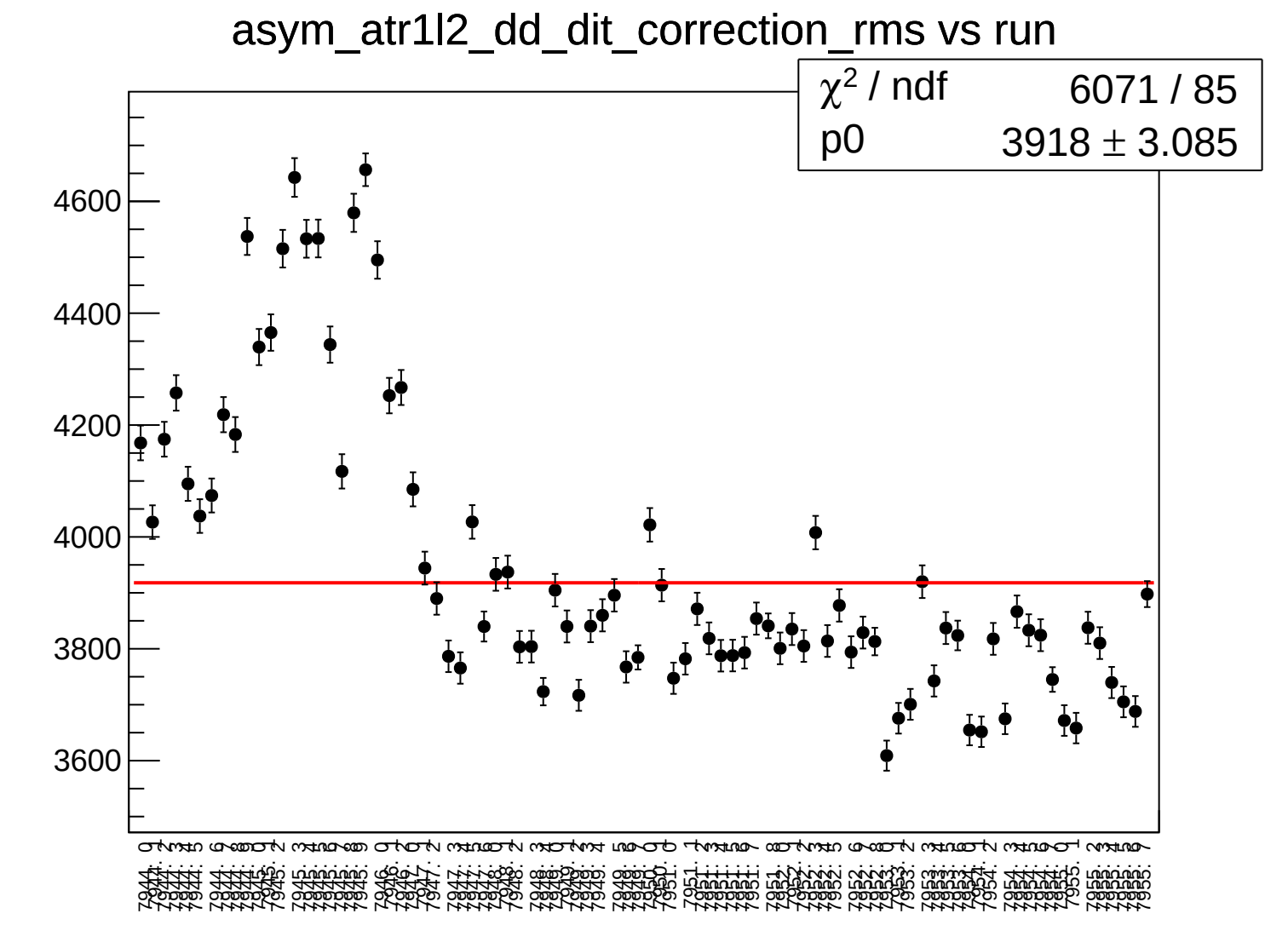

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 71.9 / 85
p0 1025 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −2197
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

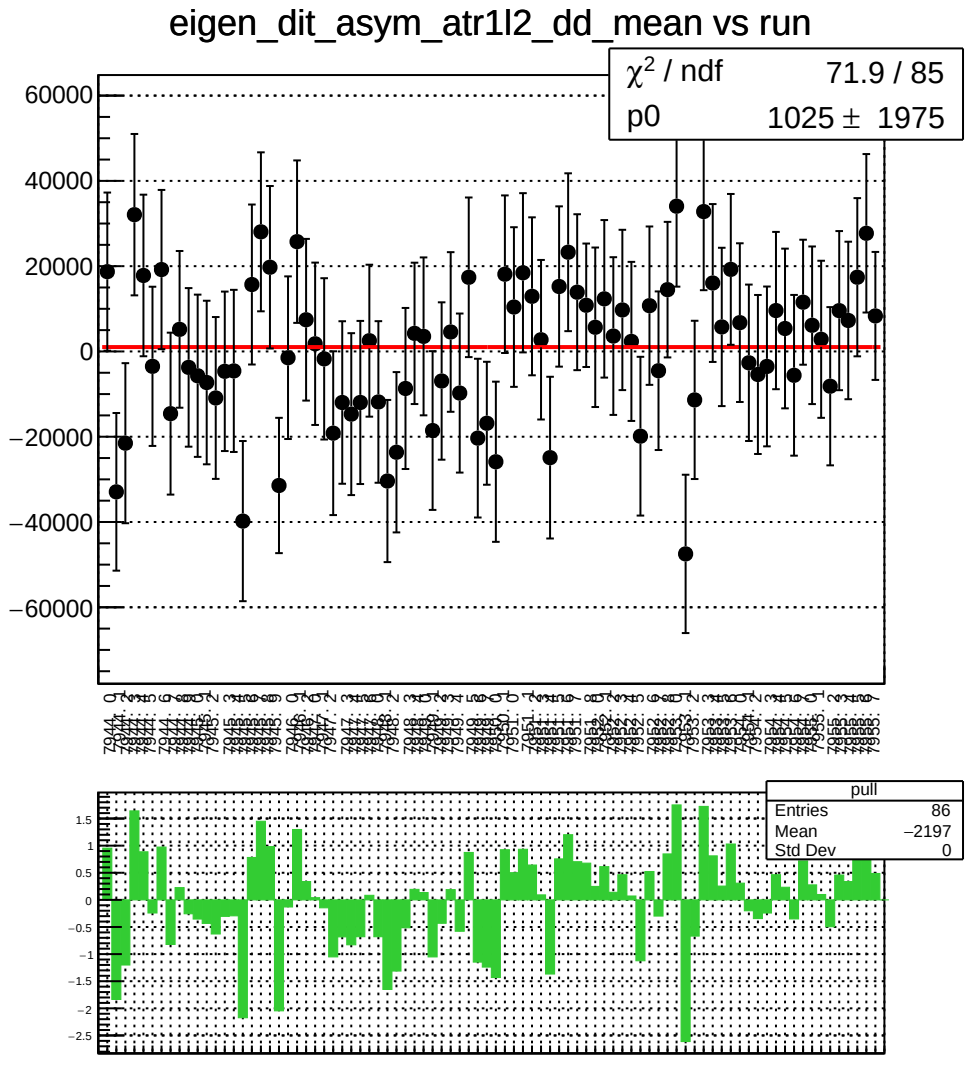

pull1D
Entries 86
Mean −0.002202
Std Dev 0.9144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

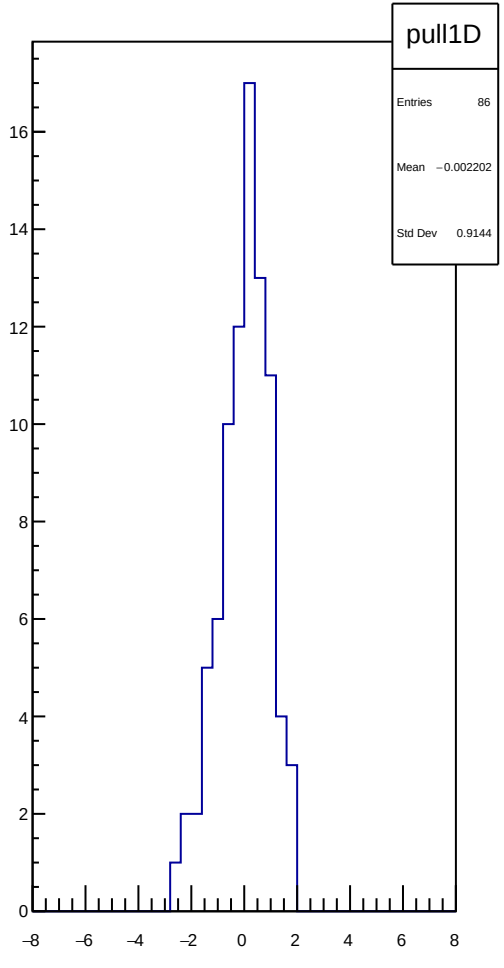

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 220.8 / 85
p0 1777 ± 1.396
1840
1820
1800
1780
1760
1740
1720

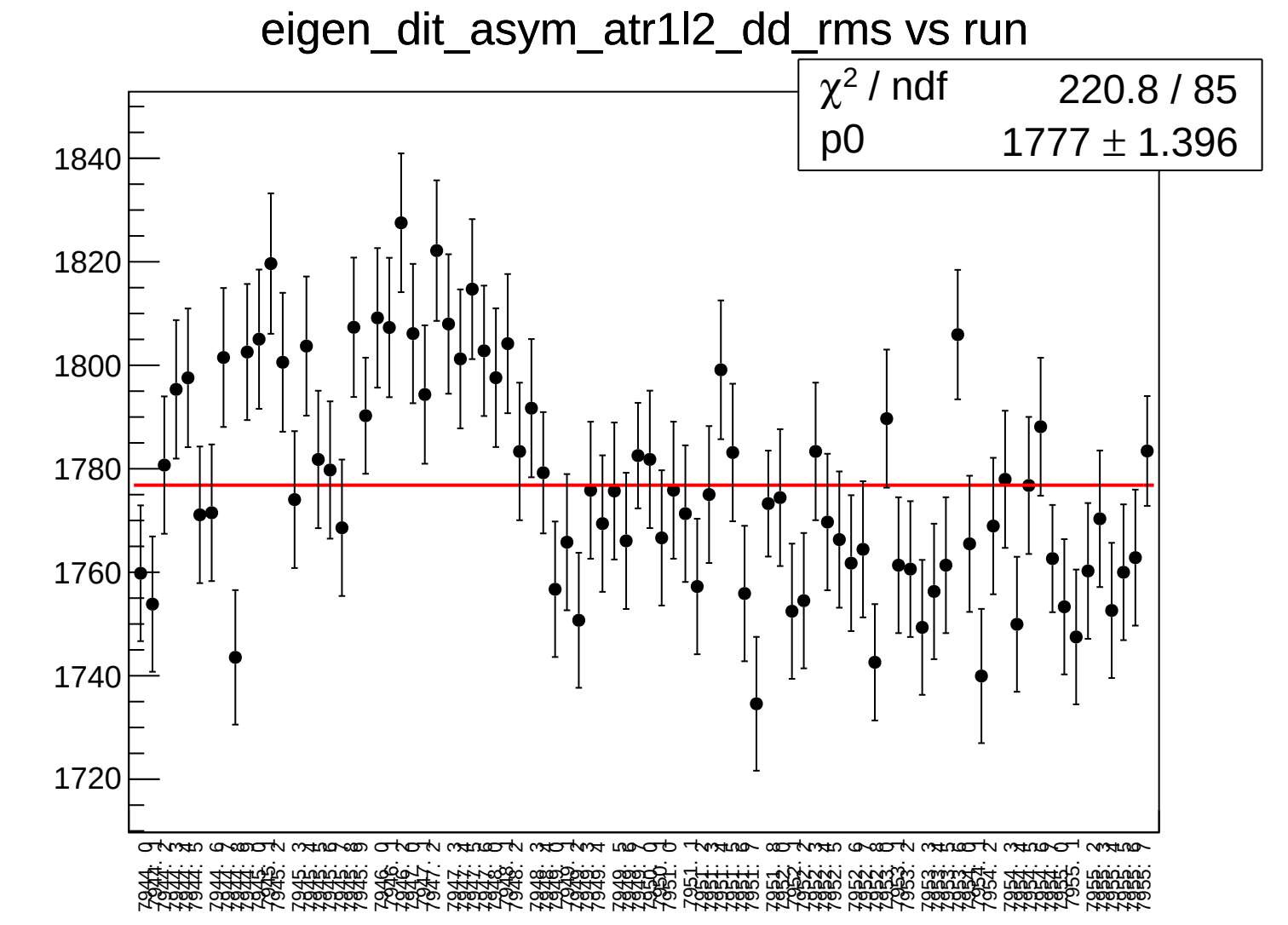

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 92.92 / 85
p0 2257 ± 4363
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −201.9
Std Dev 0
2
1
0
−1
−2
−3

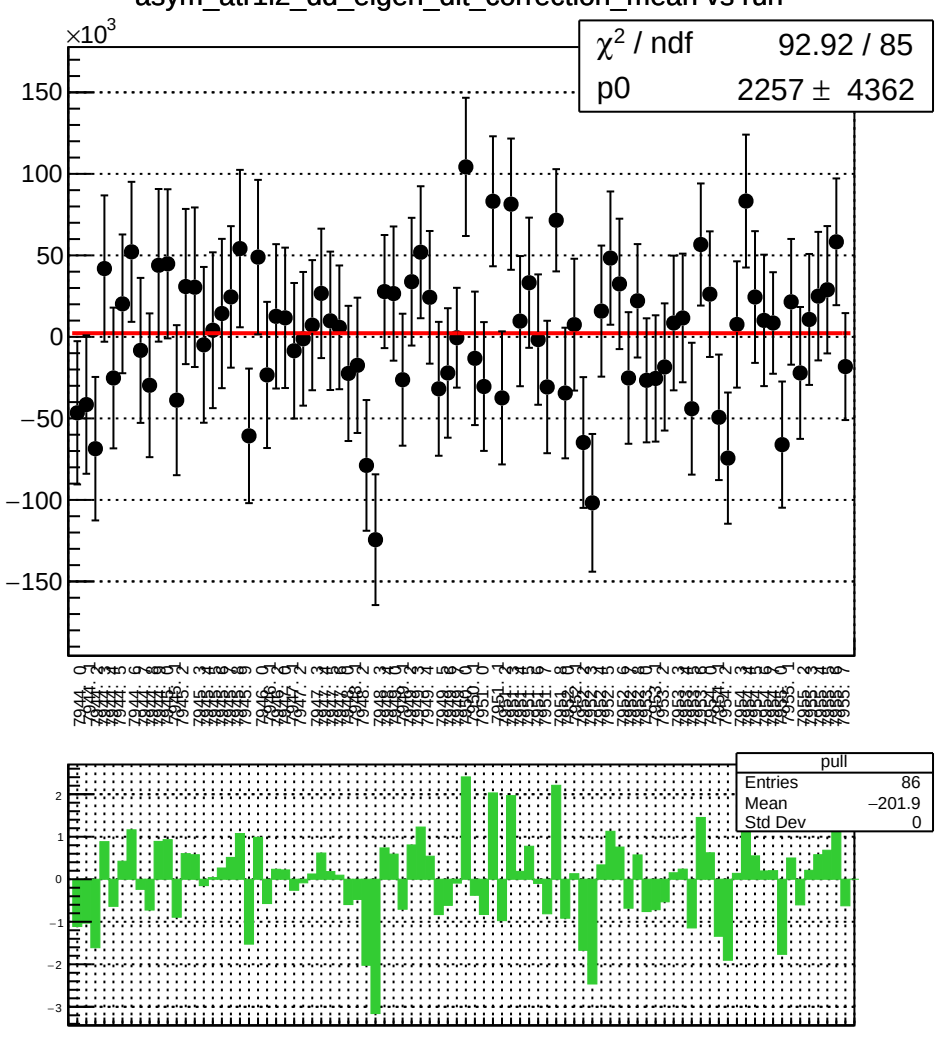

pull1D
Entries 86
Mean −0.004277
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

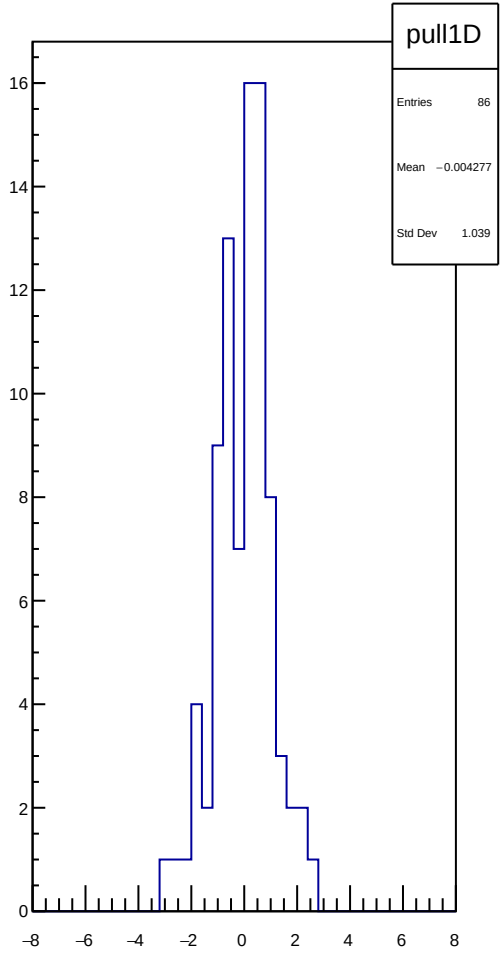

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 6071 / 85
p0 3918 ± 3.085
4600
4400
4200
4000
3800
3600

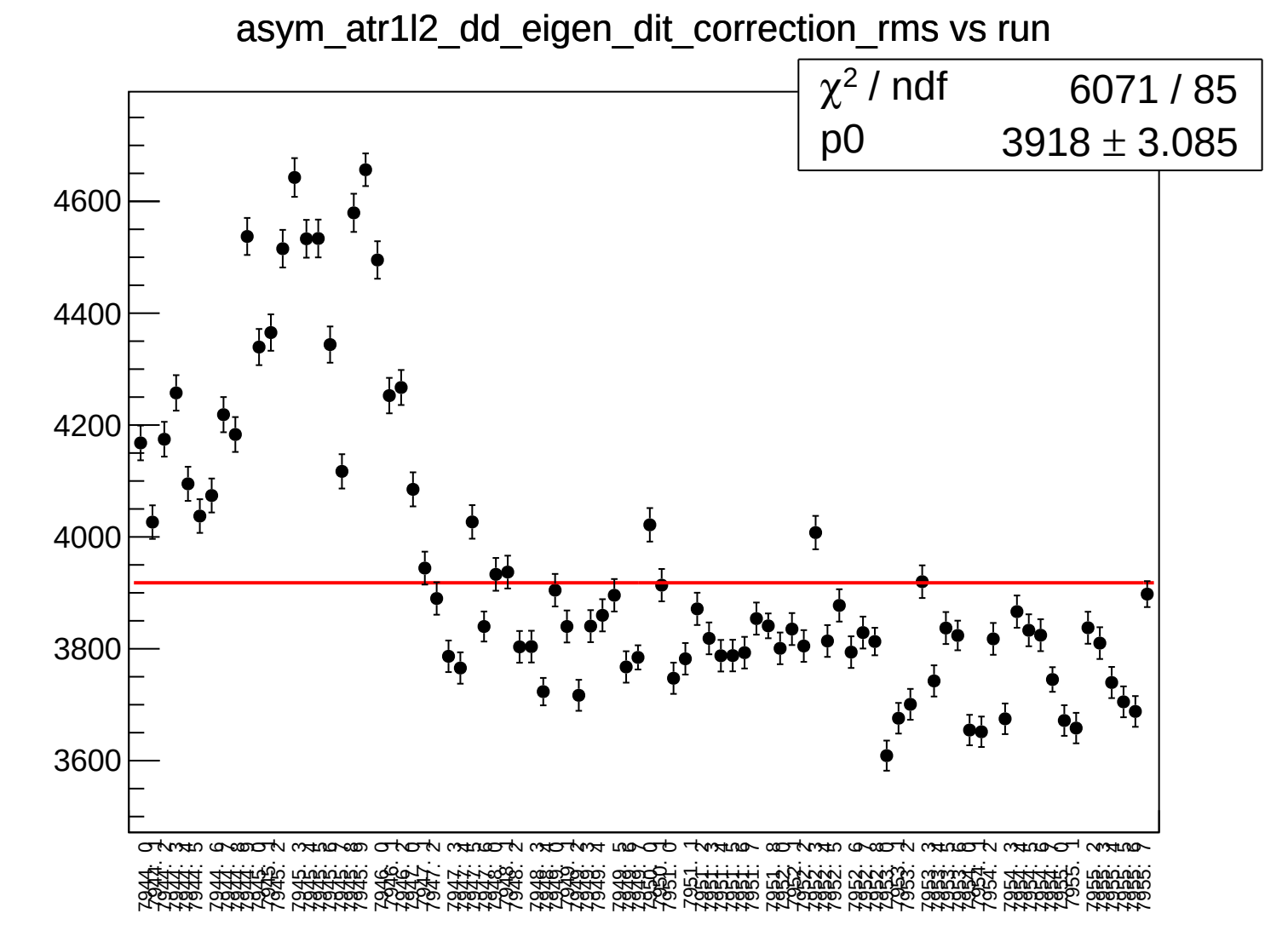

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 71.9 / 85
p0 1025 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −2197
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

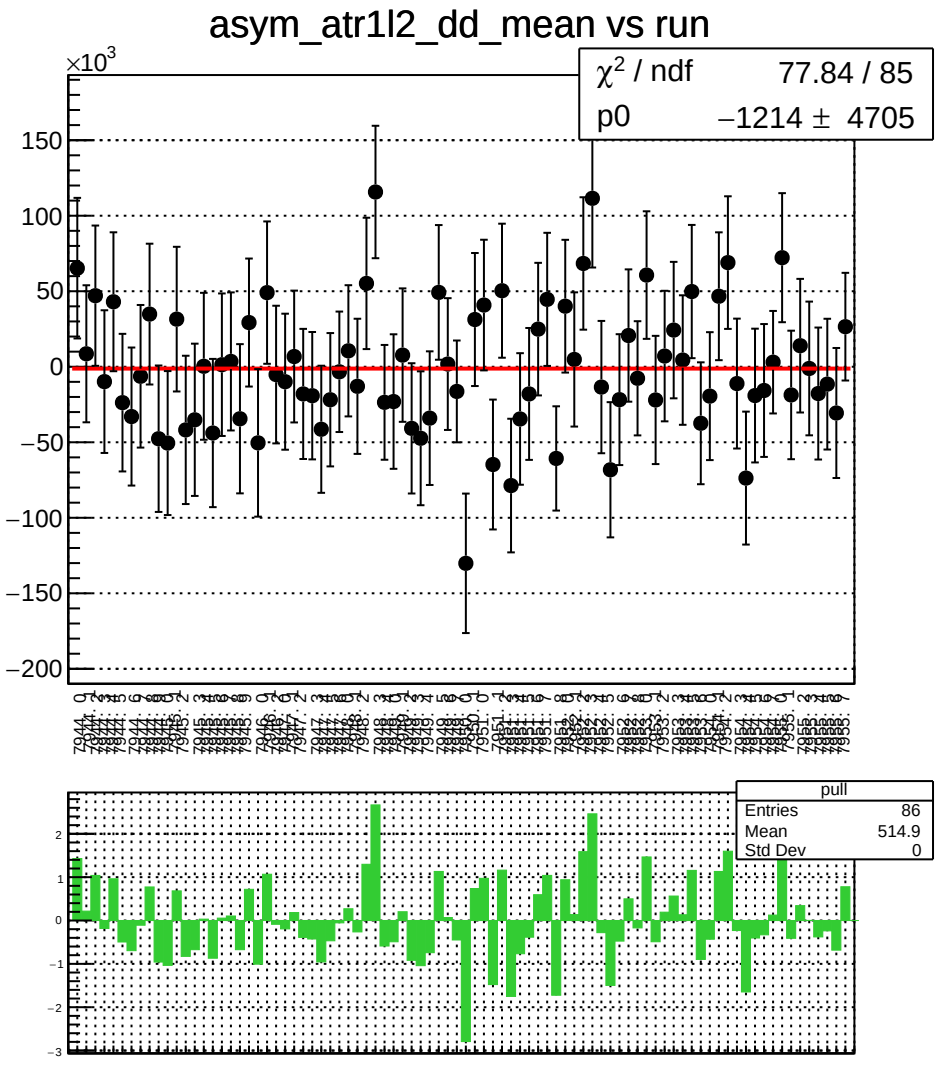

pull1D
Entries 86
Mean −0.002202
Std Dev 0.9144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

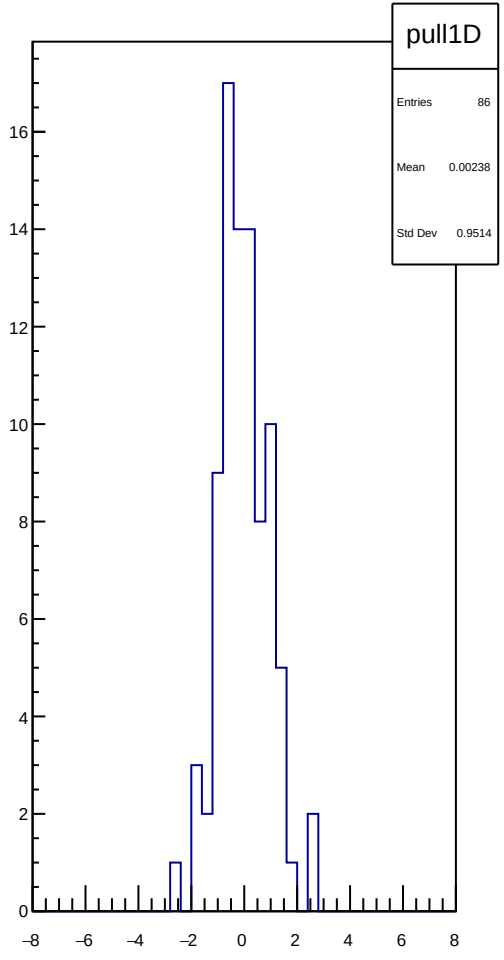

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 220.8 / 85
p0 1777 ± 1.396
1840
1820
1800
1780
1760
1740
1720


asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.92 / 85
p0 2257 ± 4362
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −201.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.004277
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6071 / 85
p0 3918 ± 3.085
4600
4400
4200
4000
3800
3600


asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 77.84 / 85
p0 −1214 ± 4705
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 514.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.00238
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
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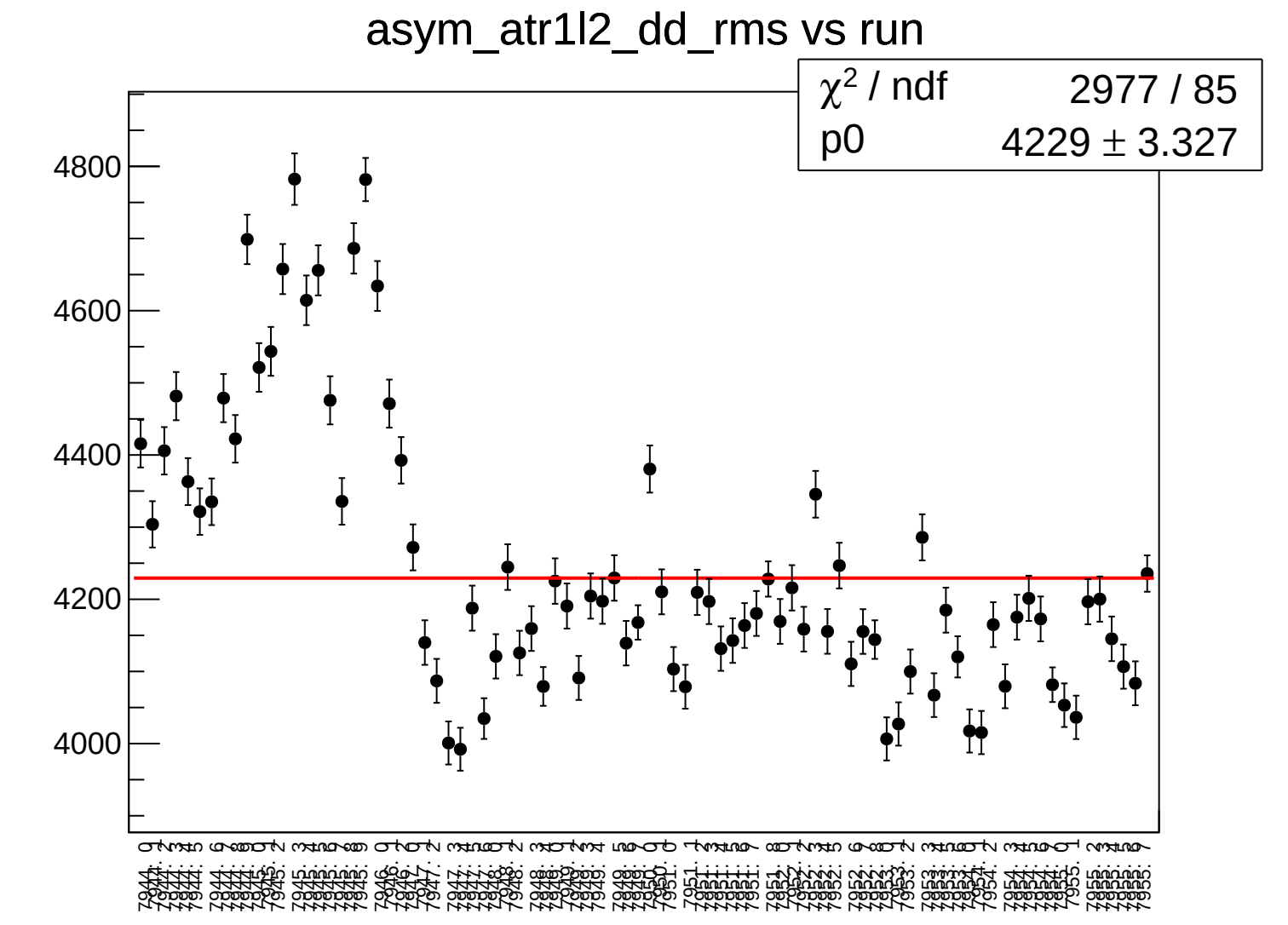
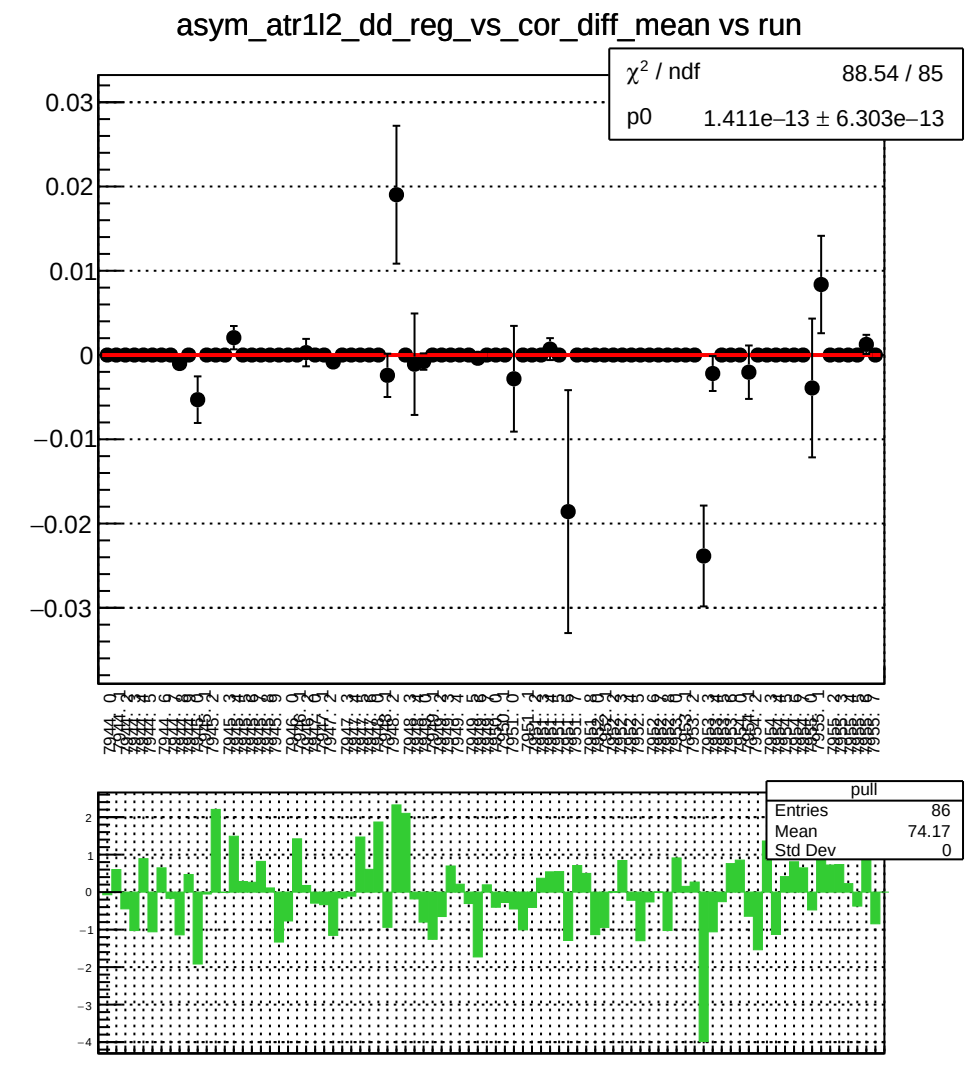
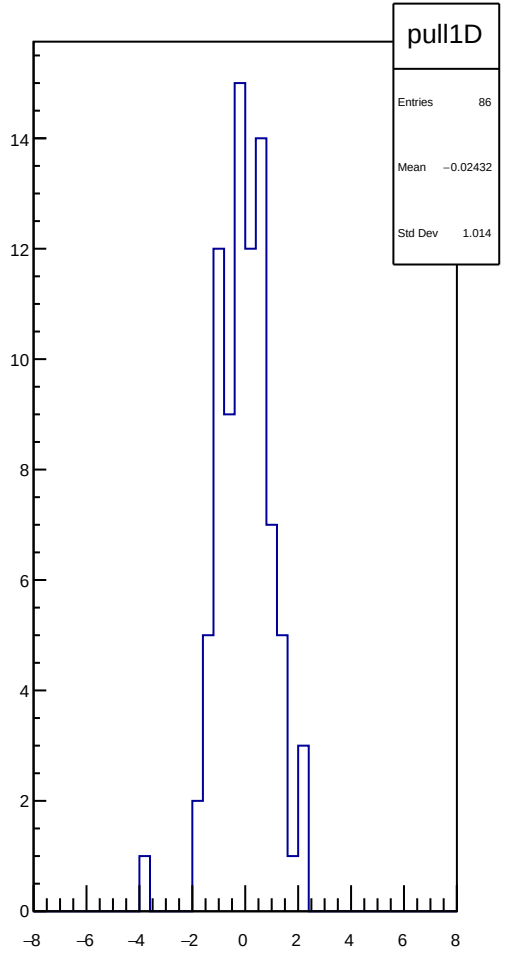
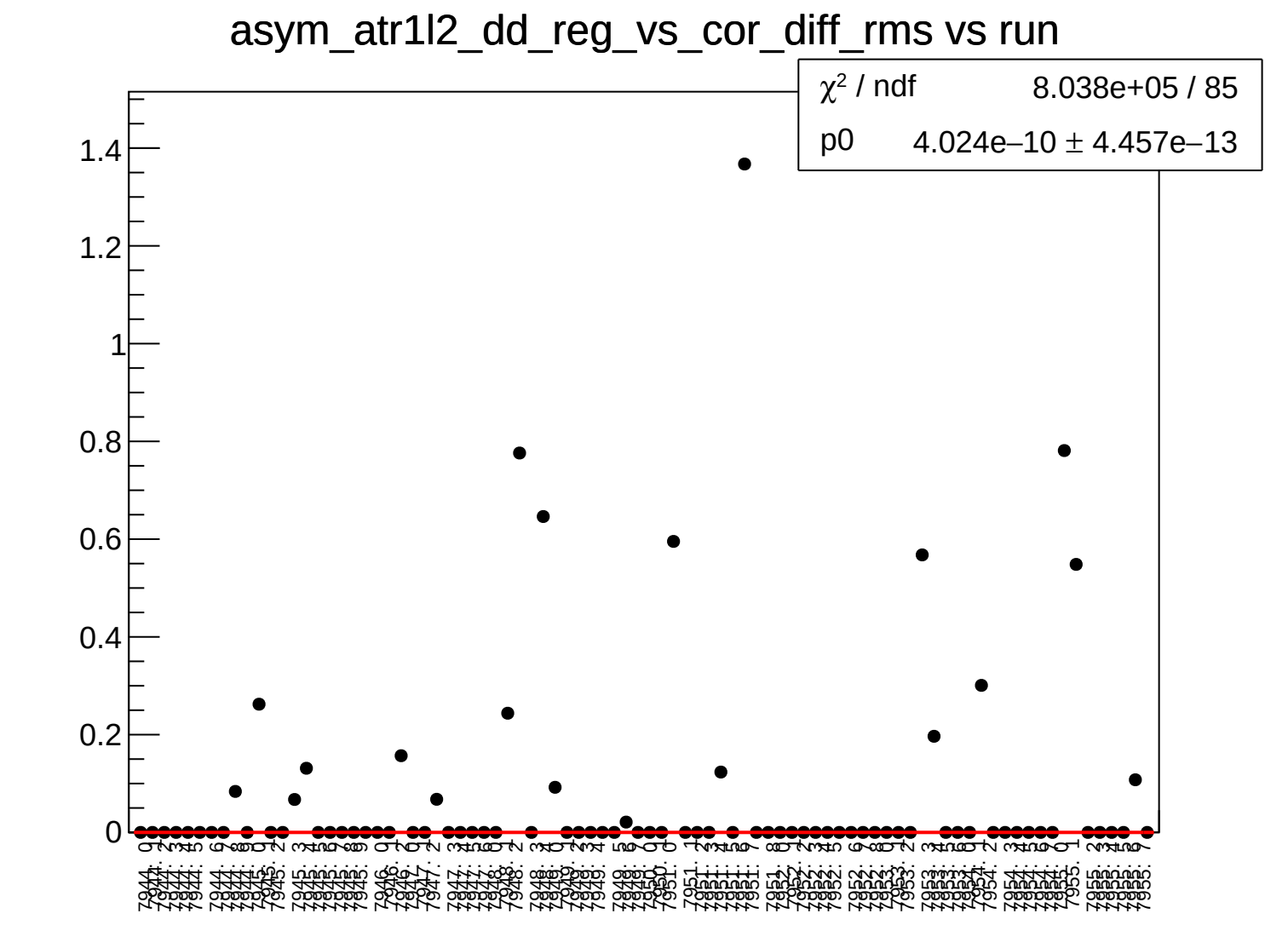
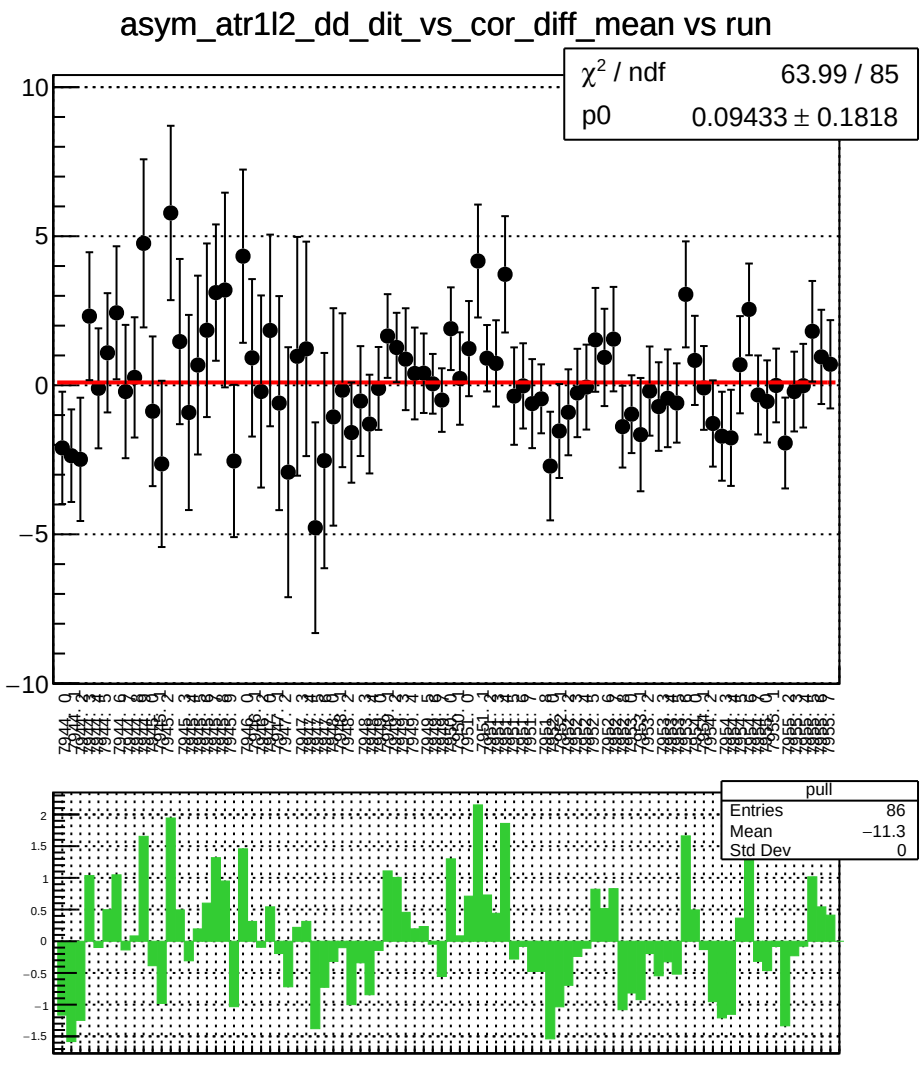
2
4
6
8

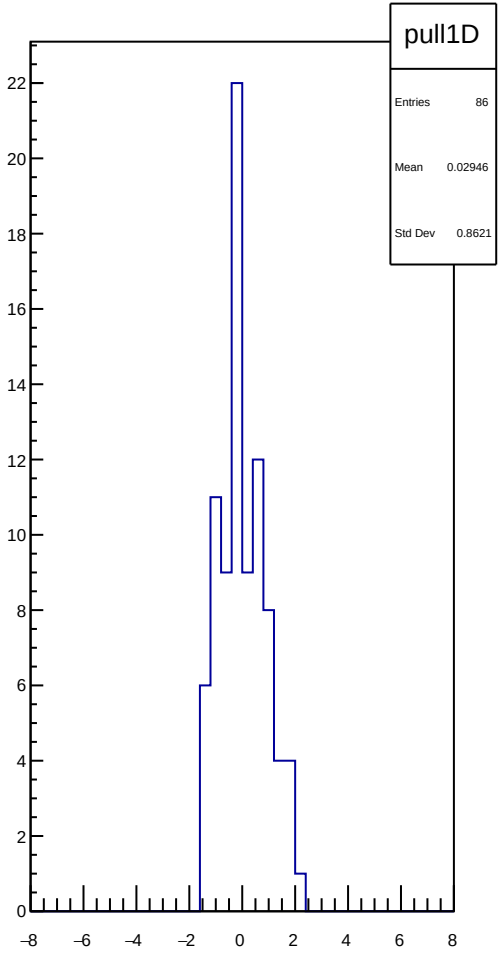

asym_atr1l2_dd_rms vs run
χ^2 / ndf 2977 / 85
p0 4229 ± 3.327
4800
4600
4400
4200
4000

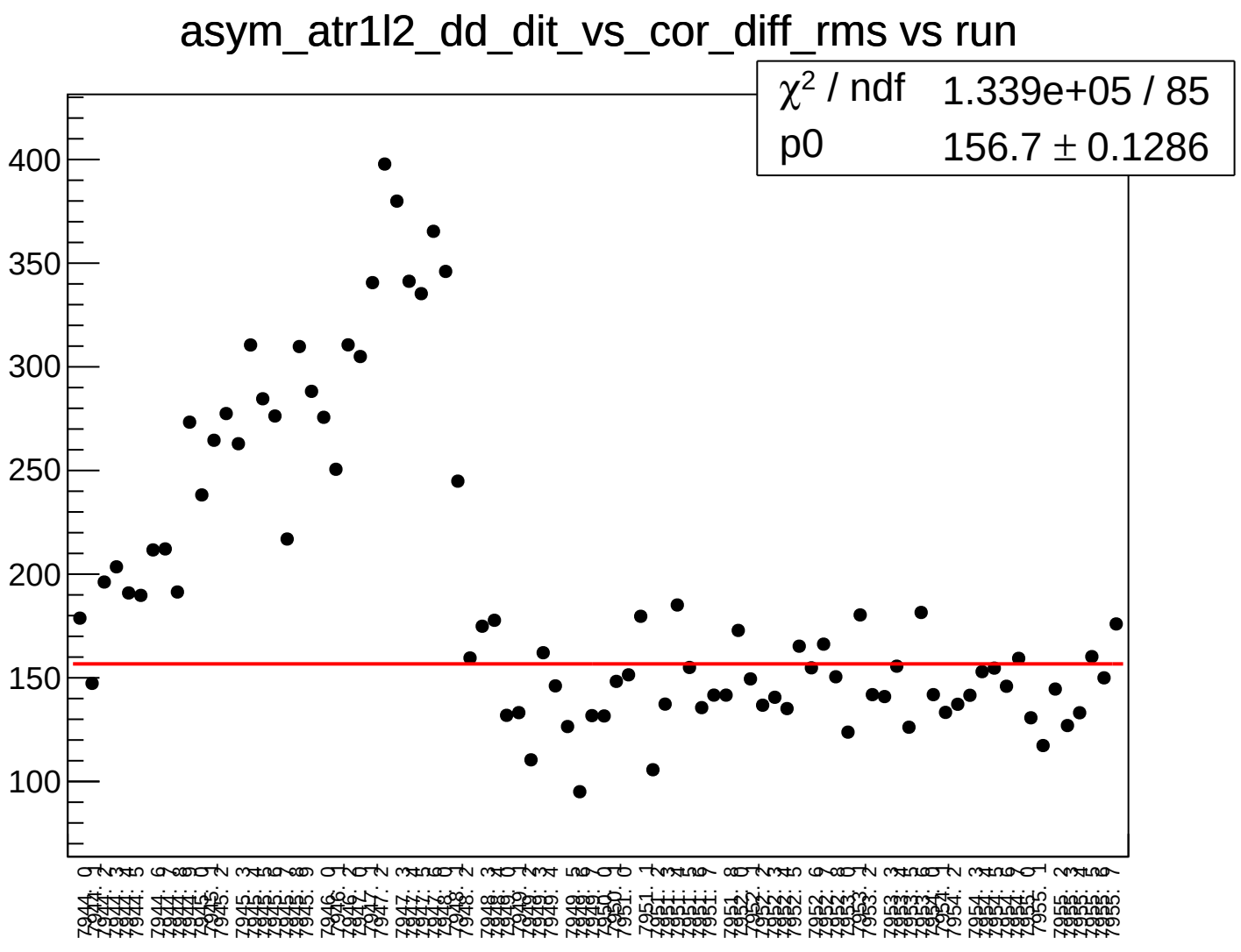

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.54 / 85
p0 1.411e−13 ± 6.303e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 74.17
Std Dev 0
2
1
0
−1
−2
−3
−4

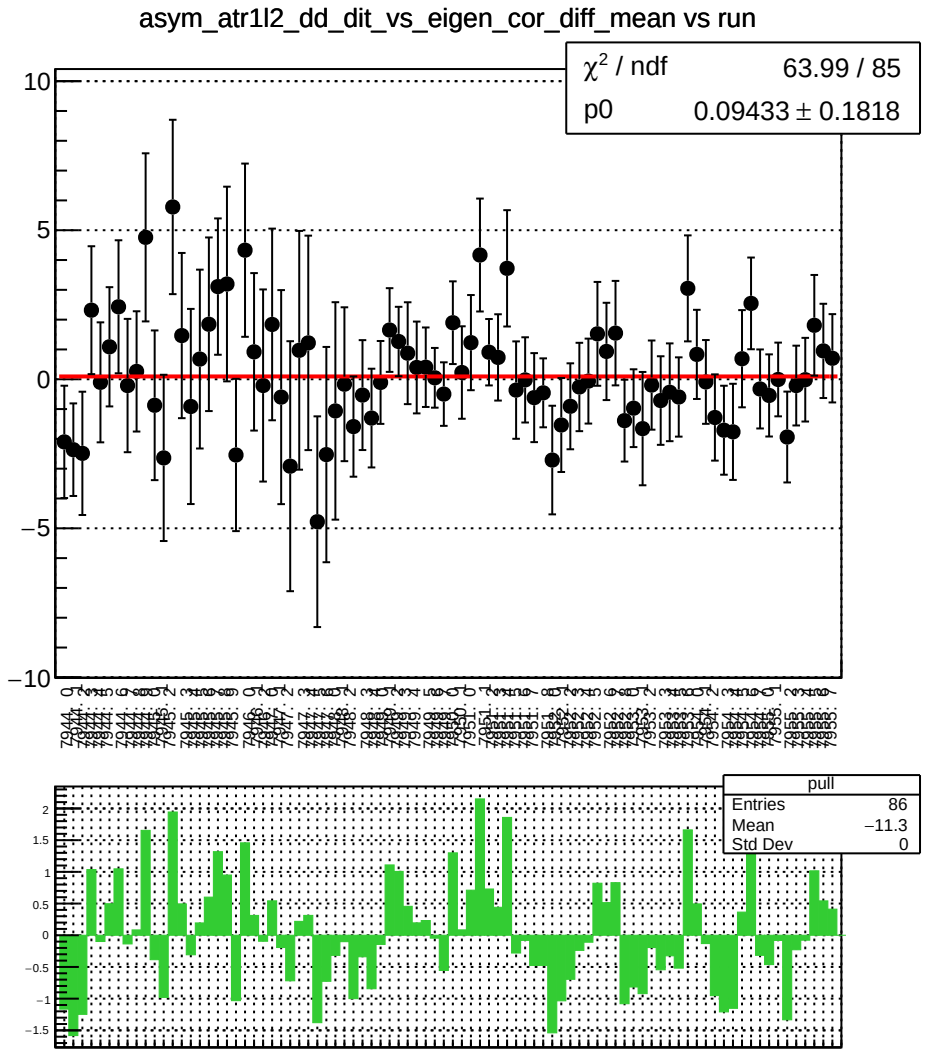

pull1D
Entries 86
Mean −0.02432
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

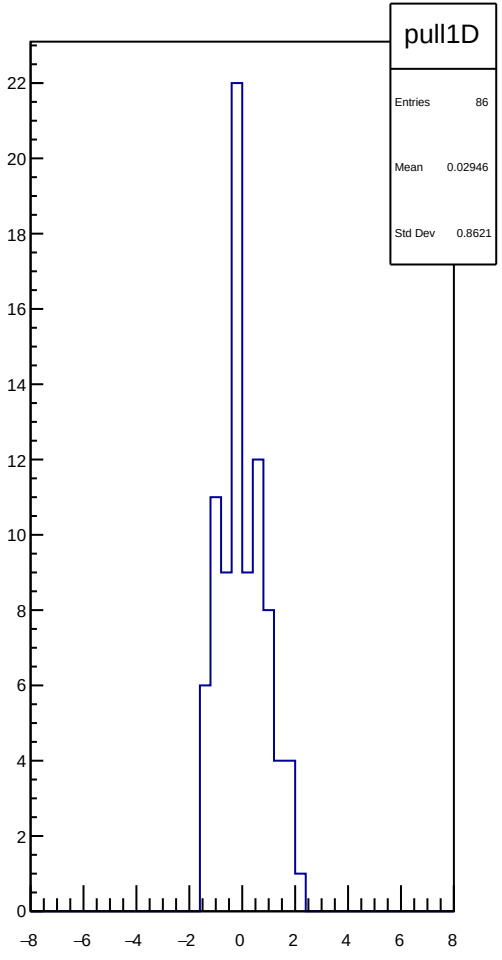

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.038e+05 / 85
p0 4.024e−10 ± 4.457e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

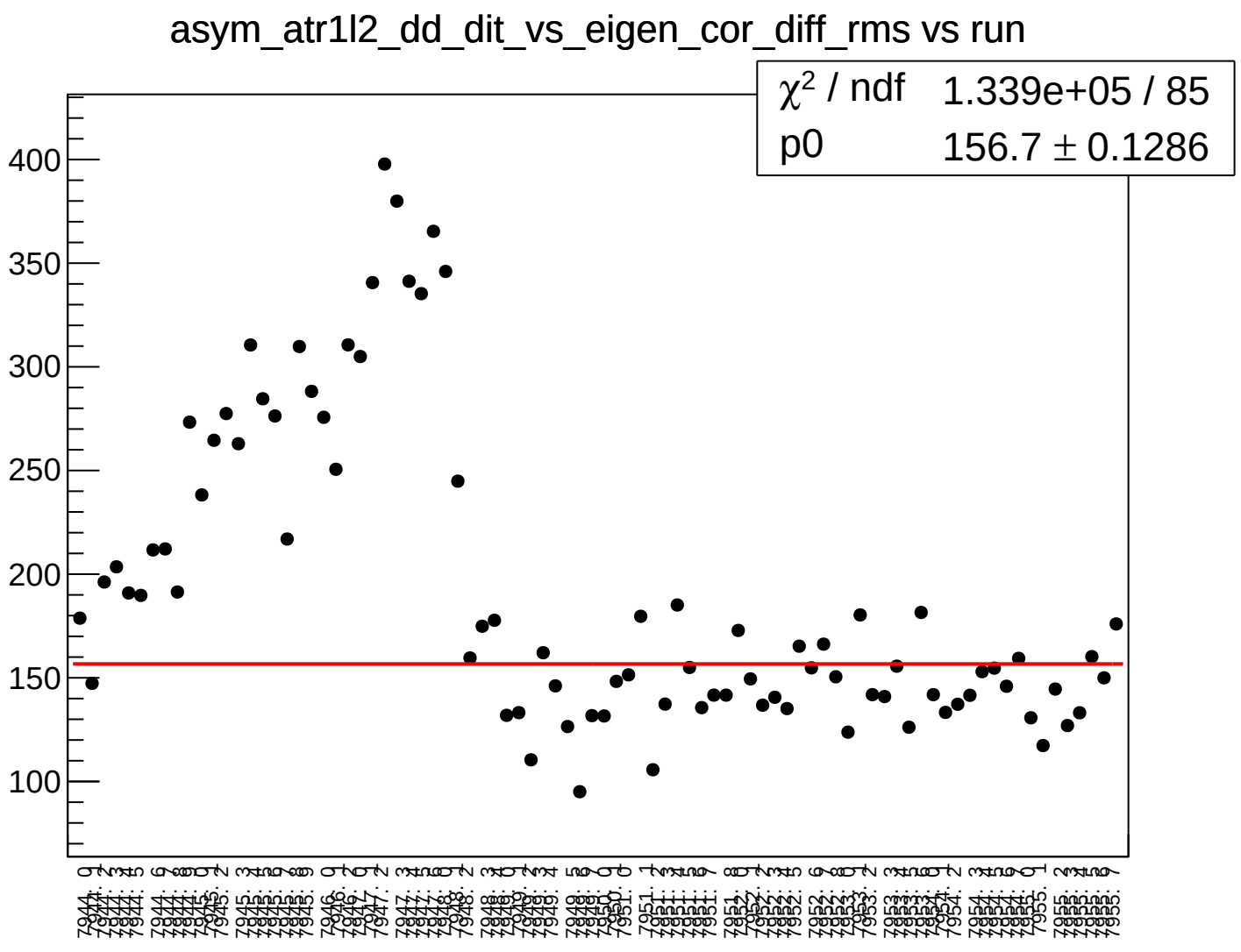

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 63.99 / 85
p0 0.09433 ± 0.1818
pull
Entries 86
Mean −11.3
Std Dev 0

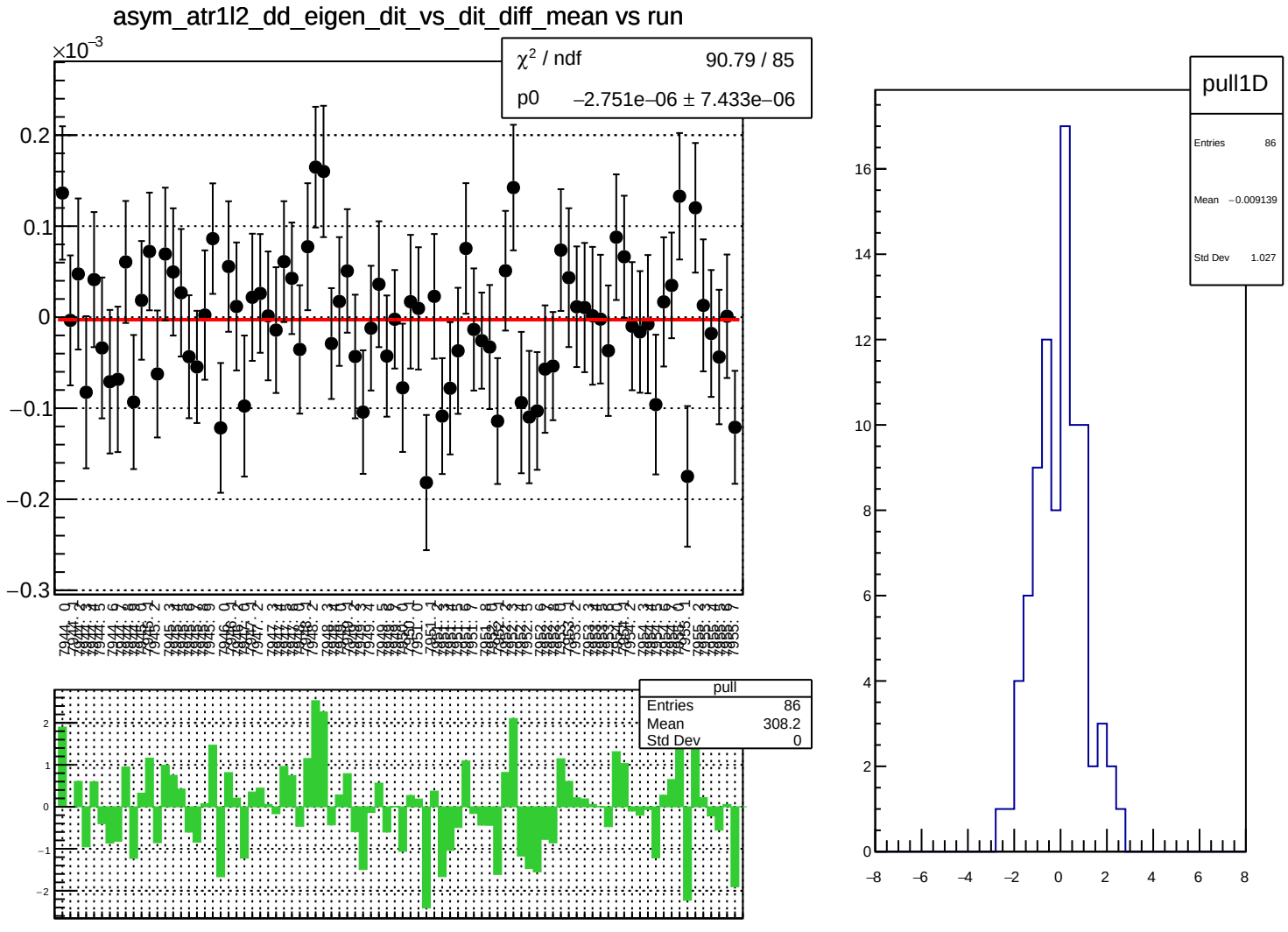

pull1D
Entries 86
Mean 0.02946
Std Dev 0.8621

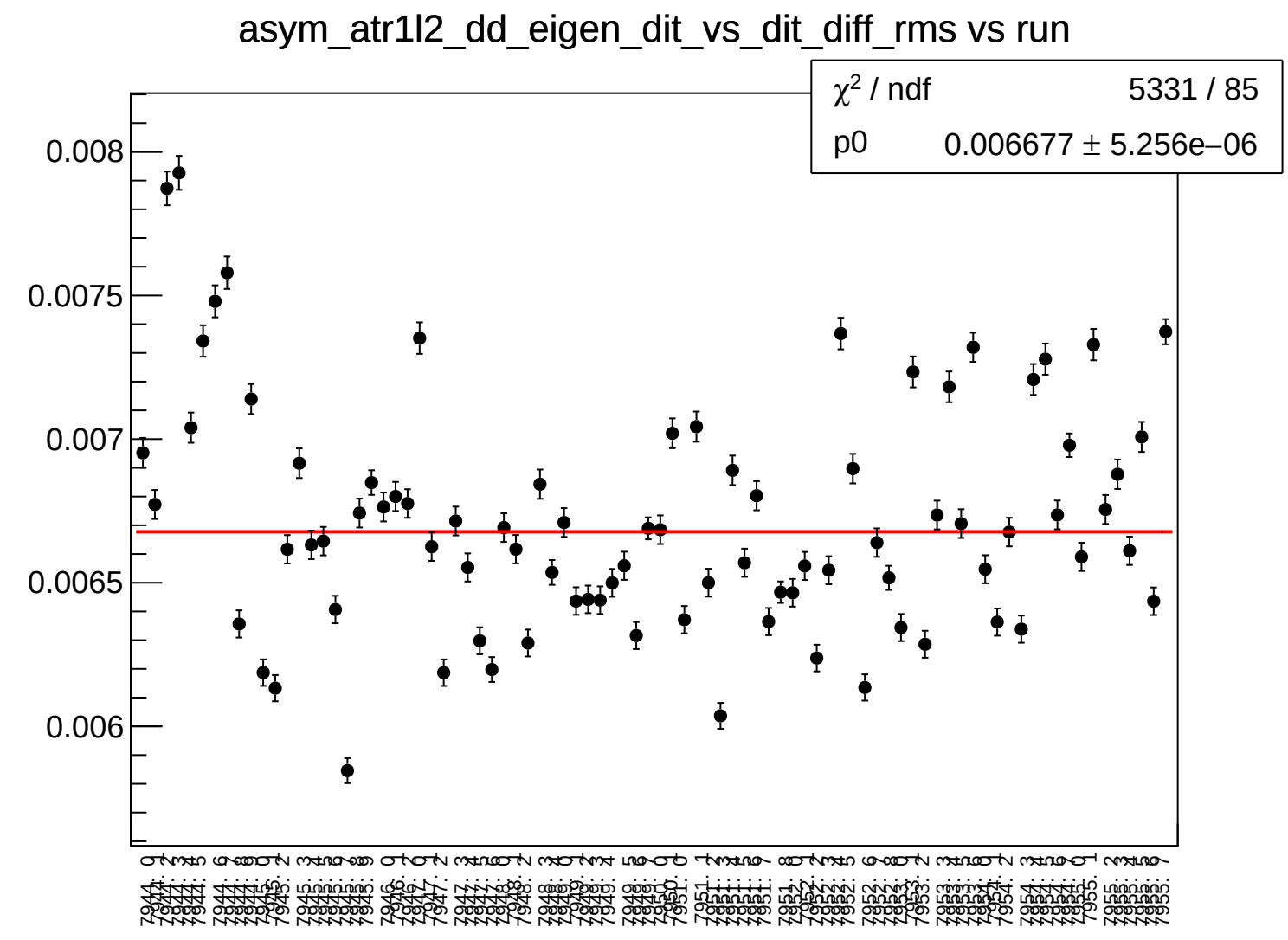

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.339e+05 / 85
p0 156.7 ± 0.1286
400
350
300
250
200
150
100

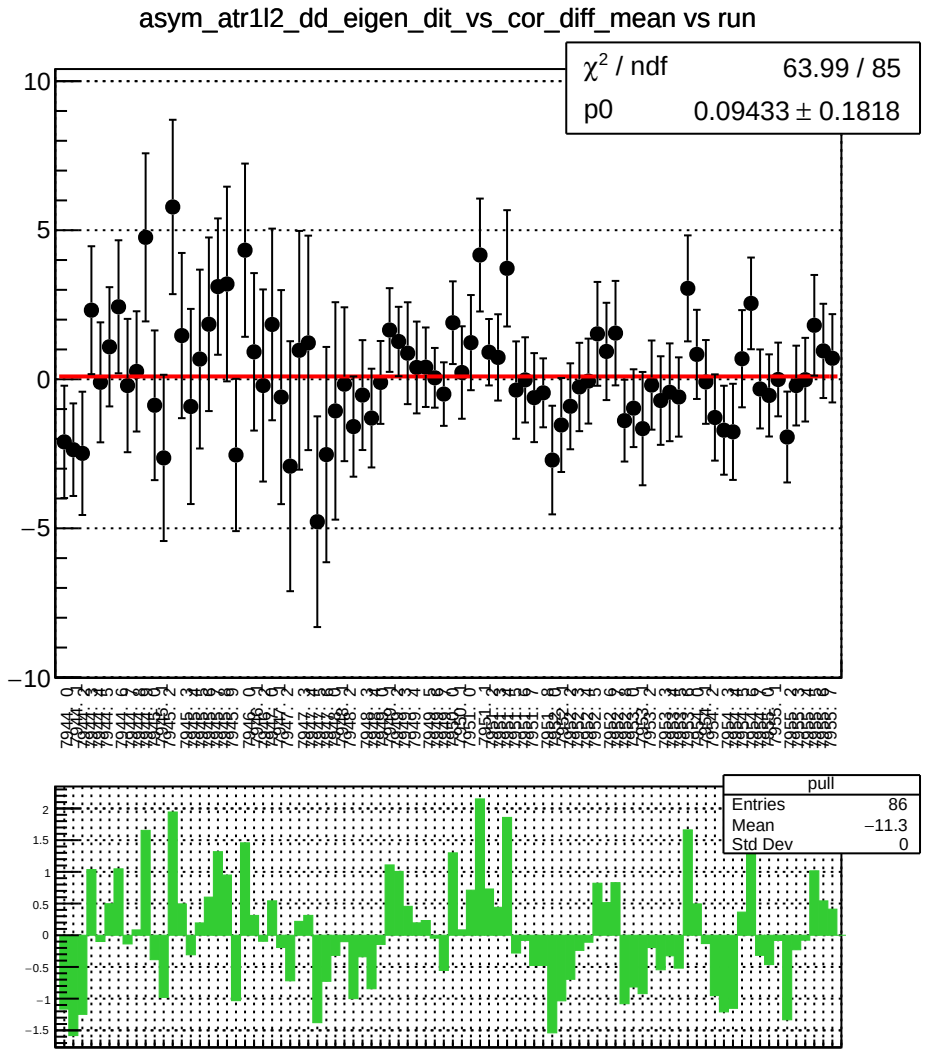

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.99 / 85
p0 0.09433 ± 0.1818
pull
Entries 86
Mean −11.3
Std Dev 0

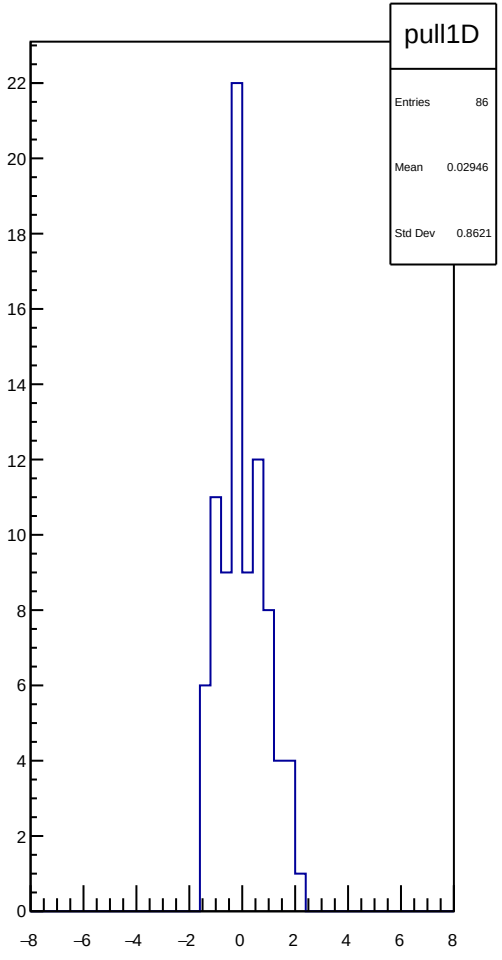

pull1D
Entries 86
Mean 0.02946
Std Dev 0.8621

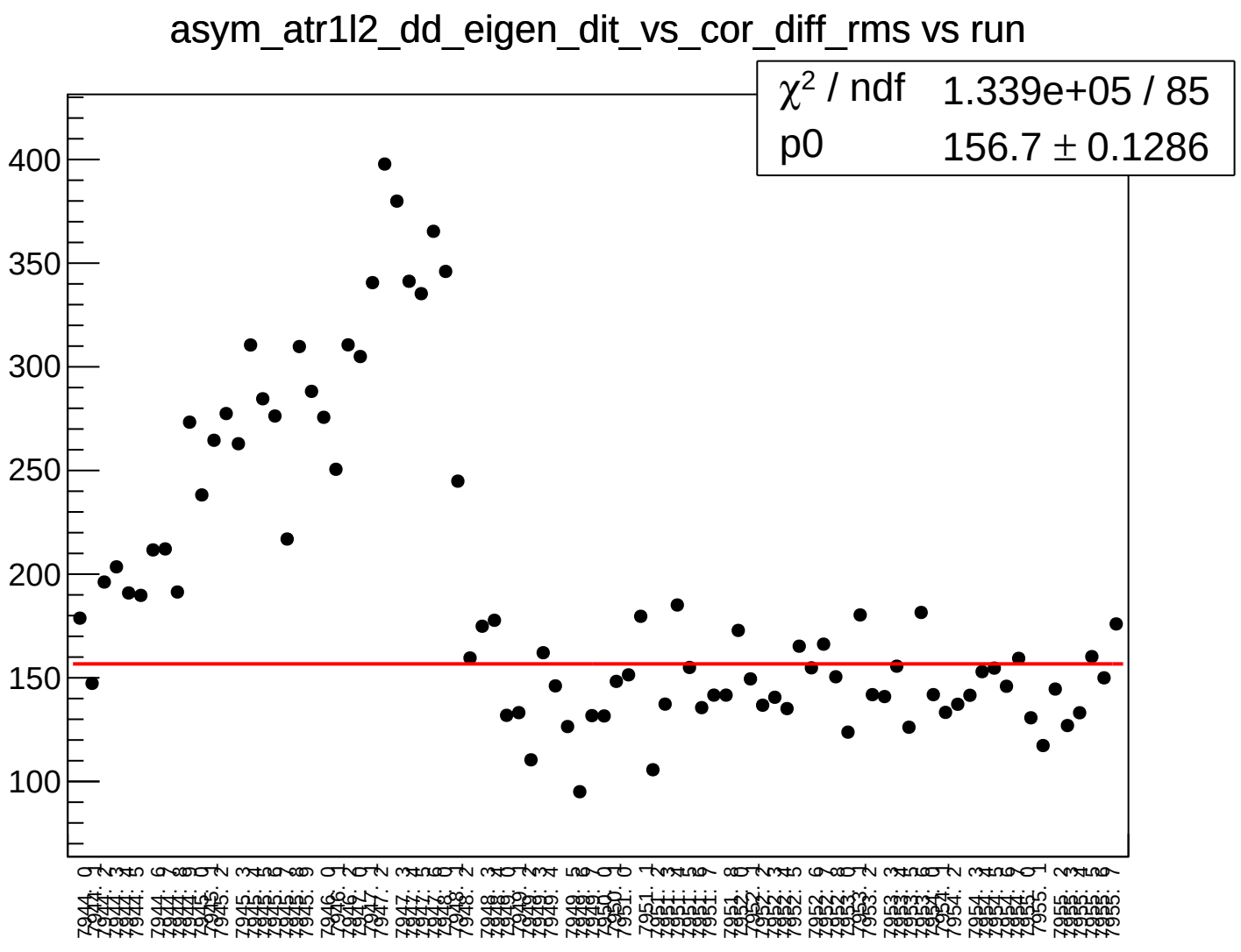

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.339e+05 / 85
p0 156.7 ± 0.1286
400
350
300
250
200
150
100

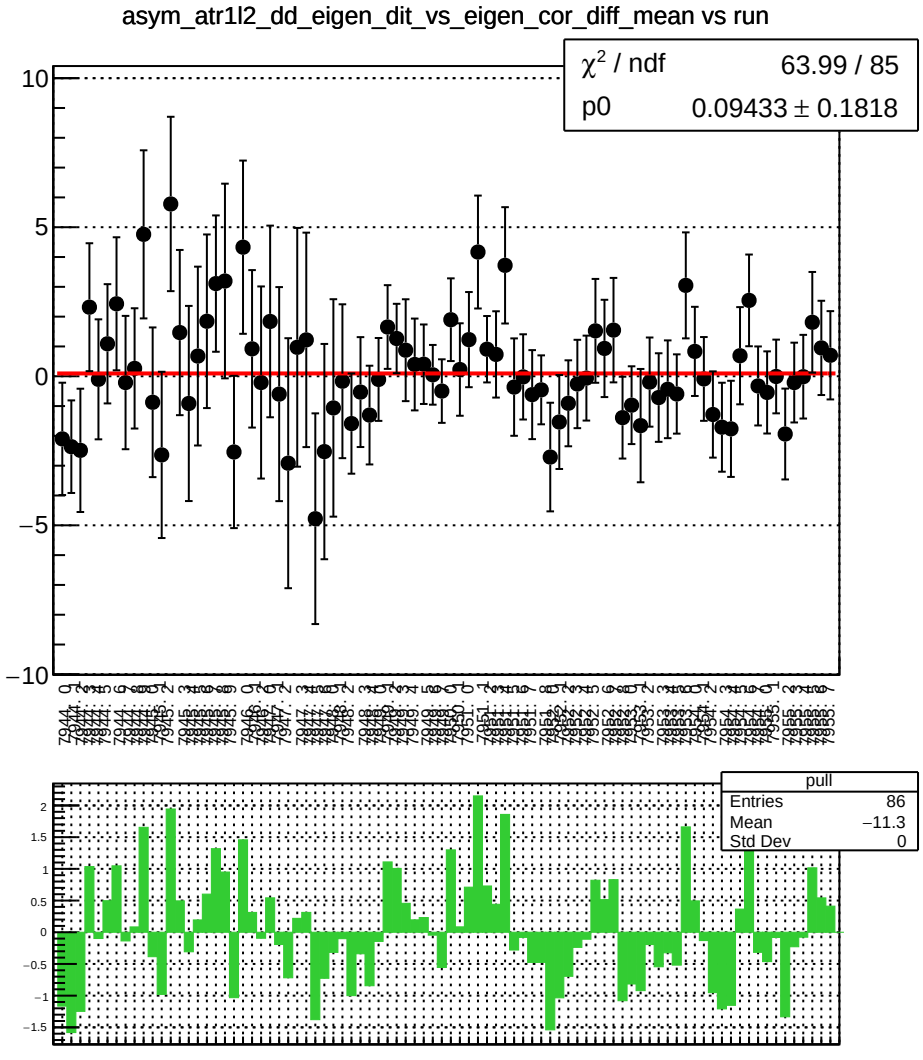

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.79 / 85
p0 −2.751e−06 ± 7.433e−06
pull
Entries 86
Mean 308.2
Std Dev 0
pull1D
Entries 86
Mean −0.009139
Std Dev 1.027

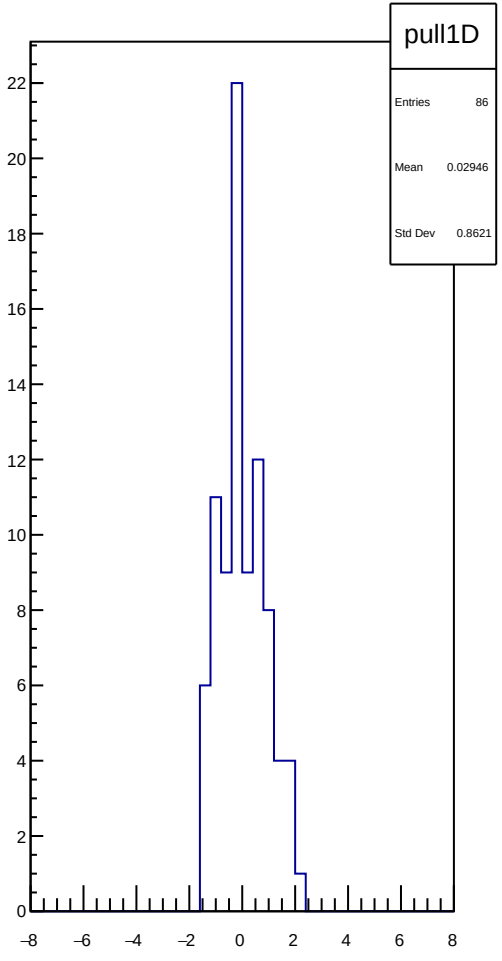

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5331 / 85
p0 0.006677 ± 5.256e−06
0.008
0.0075
0.007
0.0065
0.006

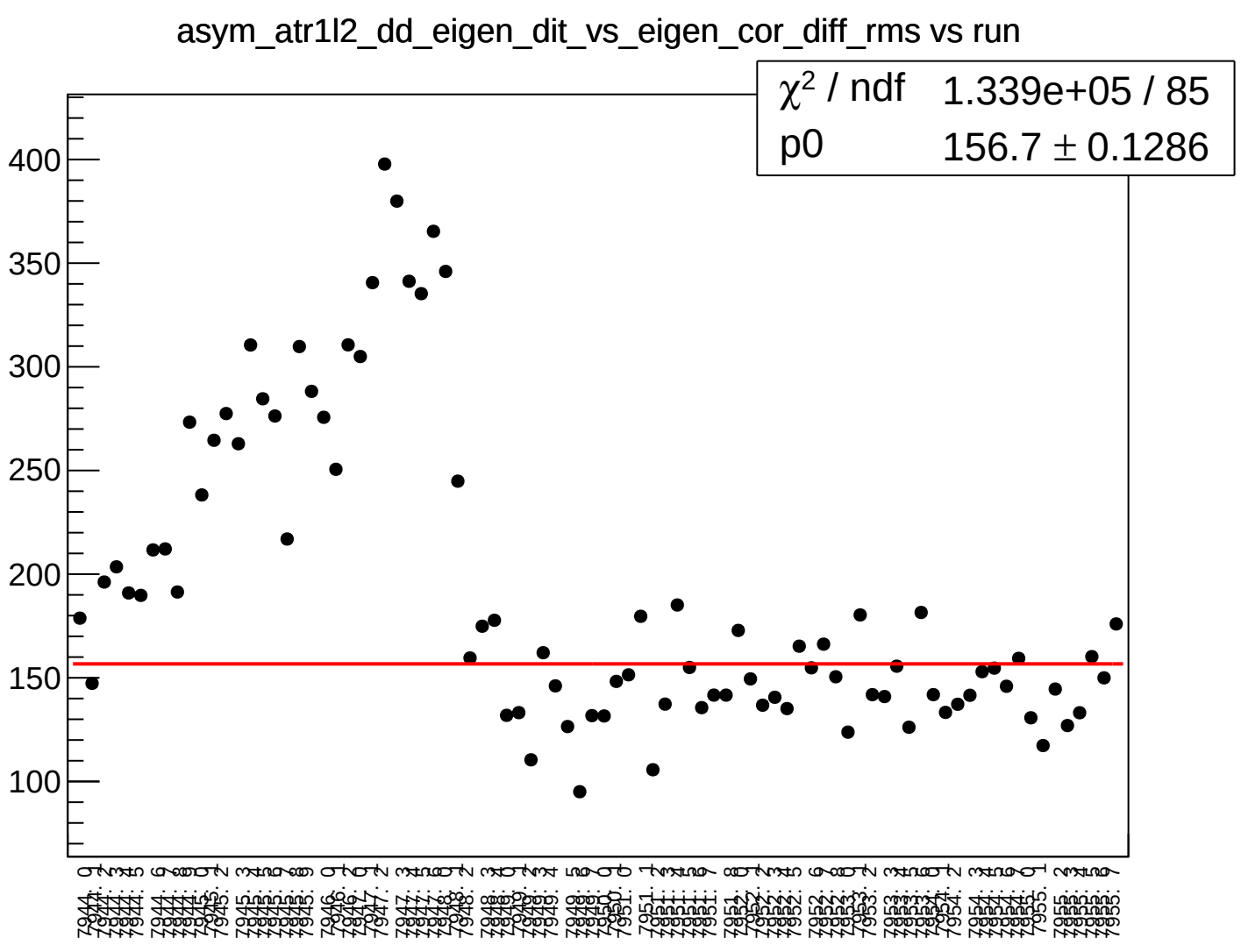

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.99 / 85
p0 0.09433 ± 0.1818
pull
Entries 86
Mean −11.3
Std Dev 0

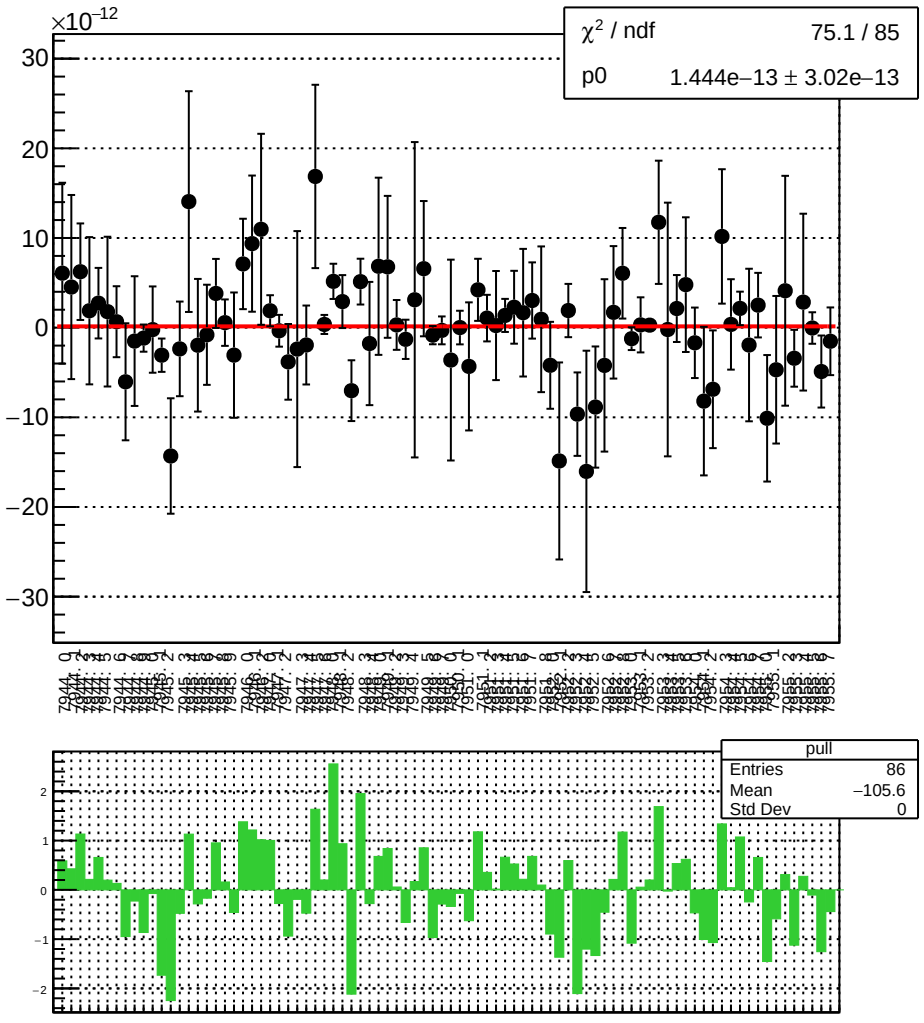

pull1D
Entries 86
Mean 0.02946
Std Dev 0.8621

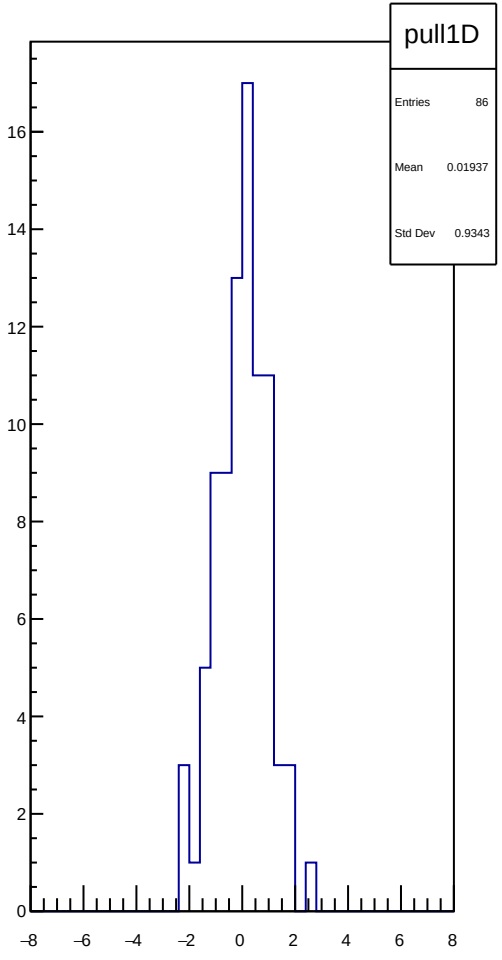

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.339e+05 / 85
p0 156.7 ± 0.1286
400
350
300
250
200
150
100

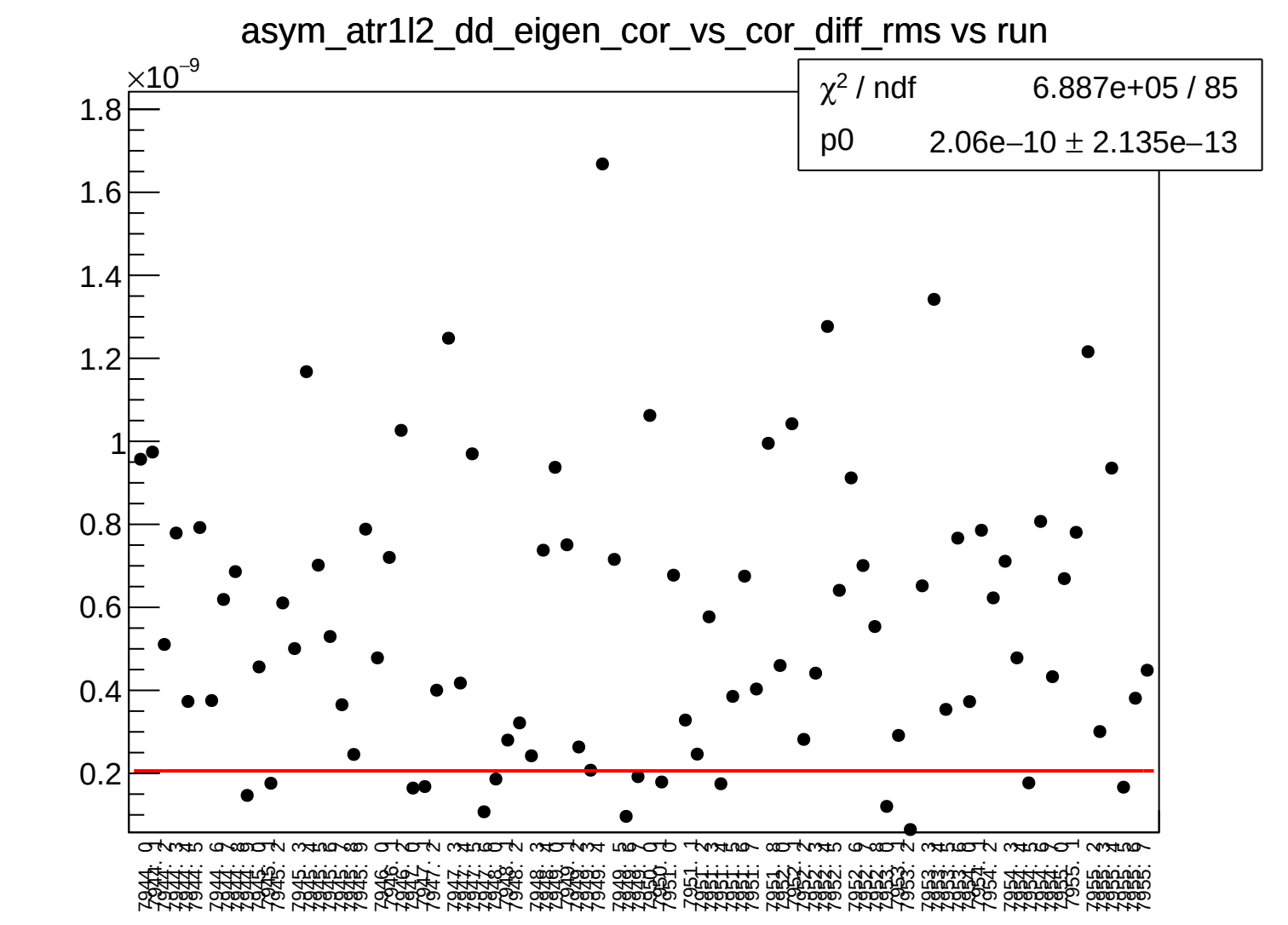

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.99 / 85
p0 0.09433 ± 0.1818
pull
Entries 86
Mean −11.3
Std Dev 0

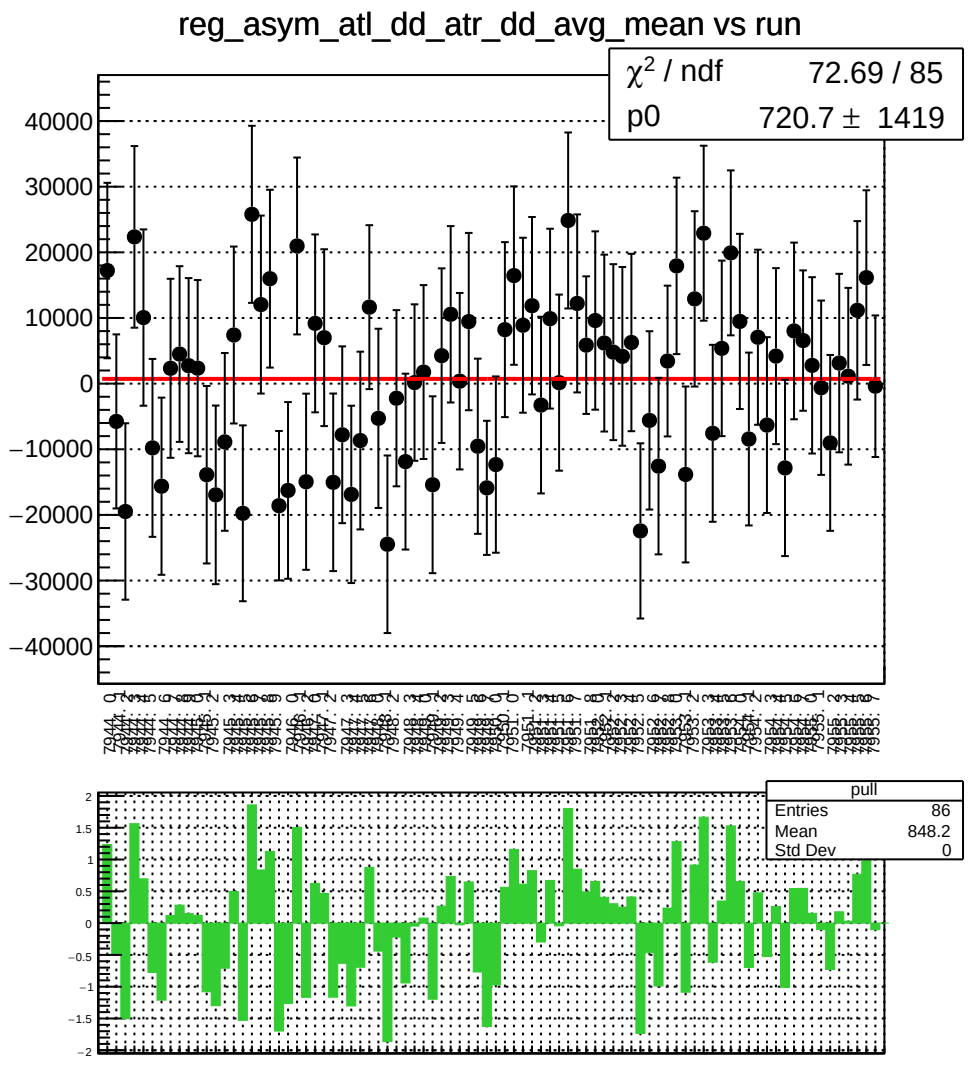

pull1D
Entries 86
Mean 0.02946
Std Dev 0.8621

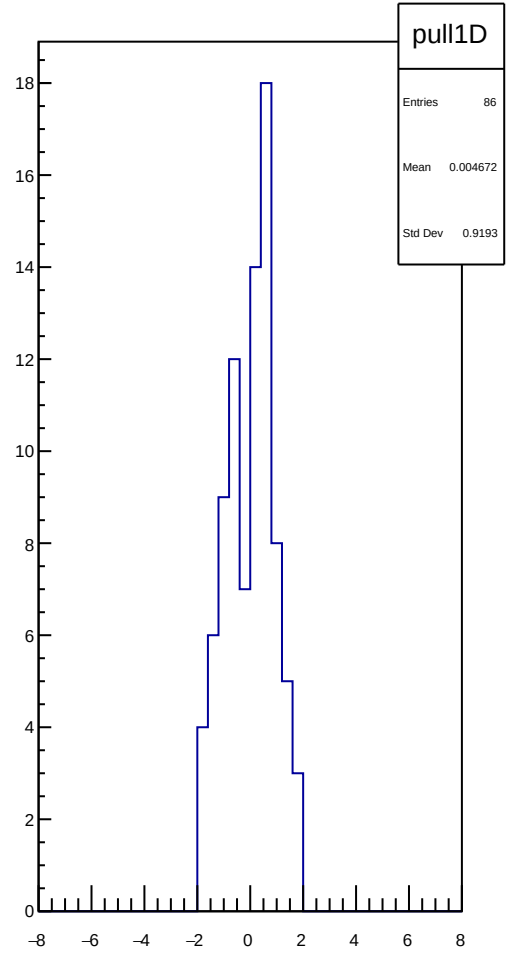

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.339e+05 / 85
p0 156.7 ± 0.1286
400
350
300
250
200
150
100

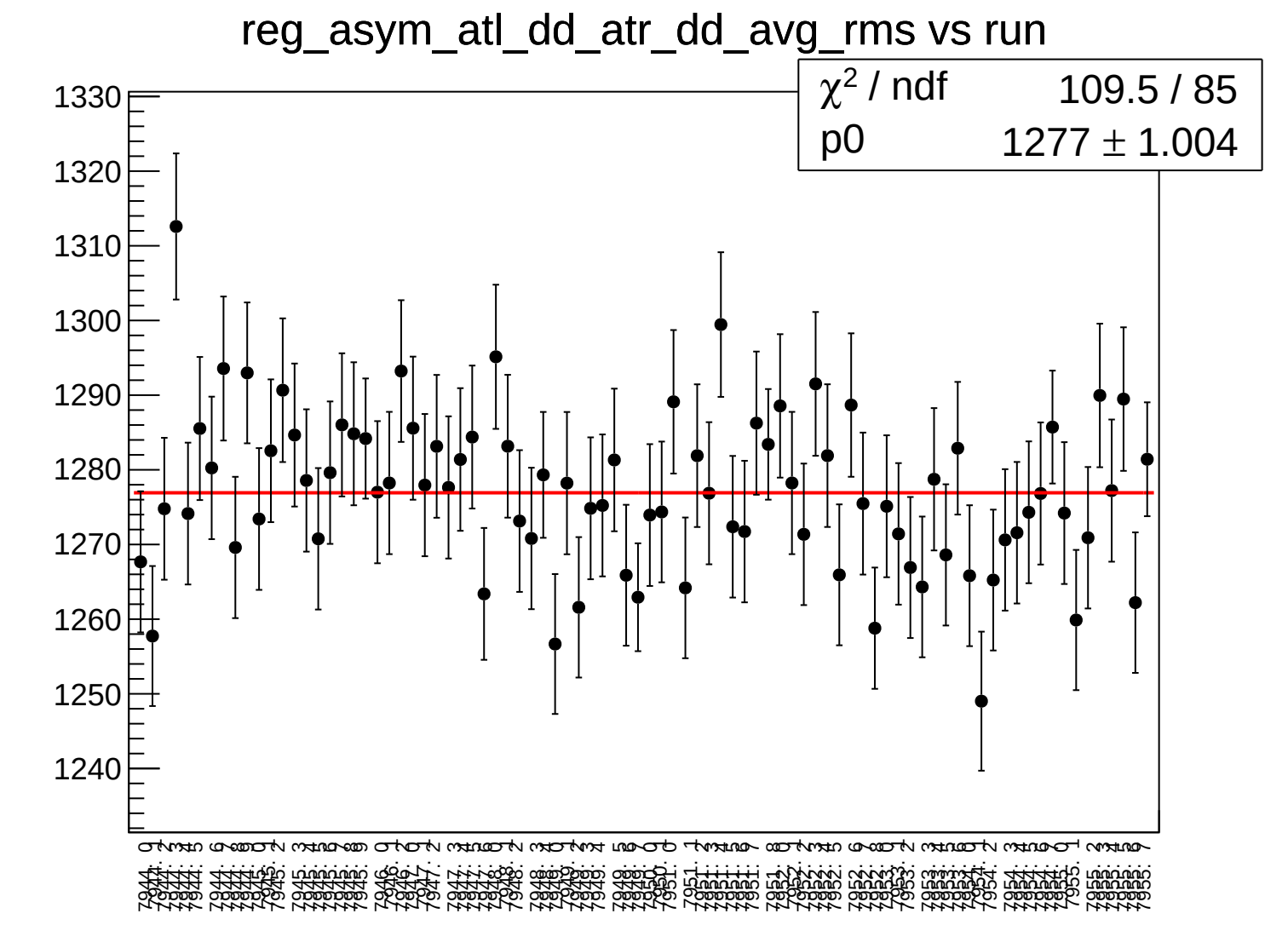

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.1 / 85
p0 1.444e−13 ± 3.02e−13
pull
Entries 86
Mean −105.6
Std Dev 0

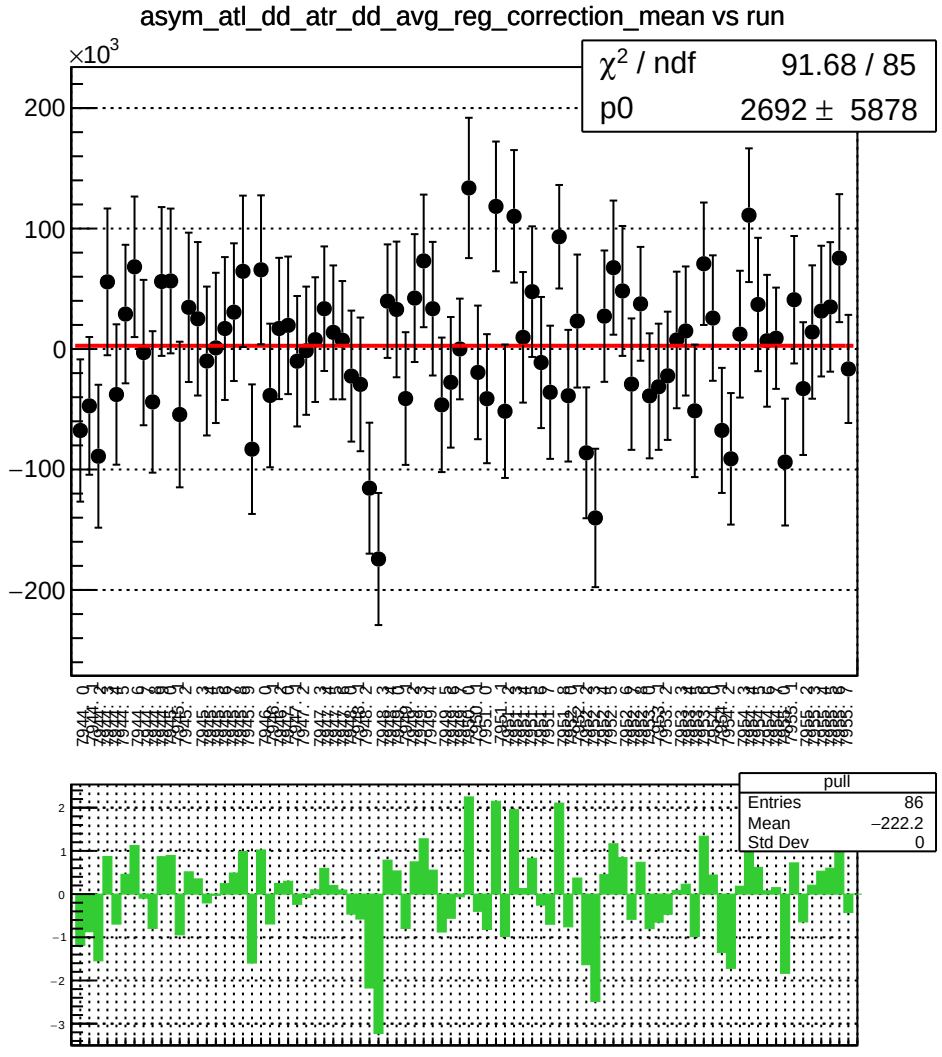

pull1D
Entries 86
Mean 0.01937
Std Dev 0.9343

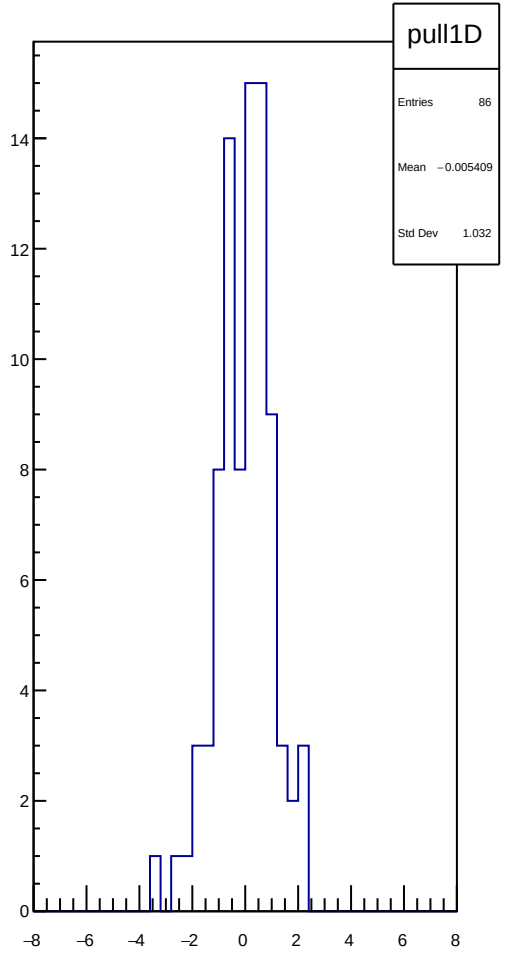

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.887e+05 / 85
p0 2.06e−10 ± 2.135e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

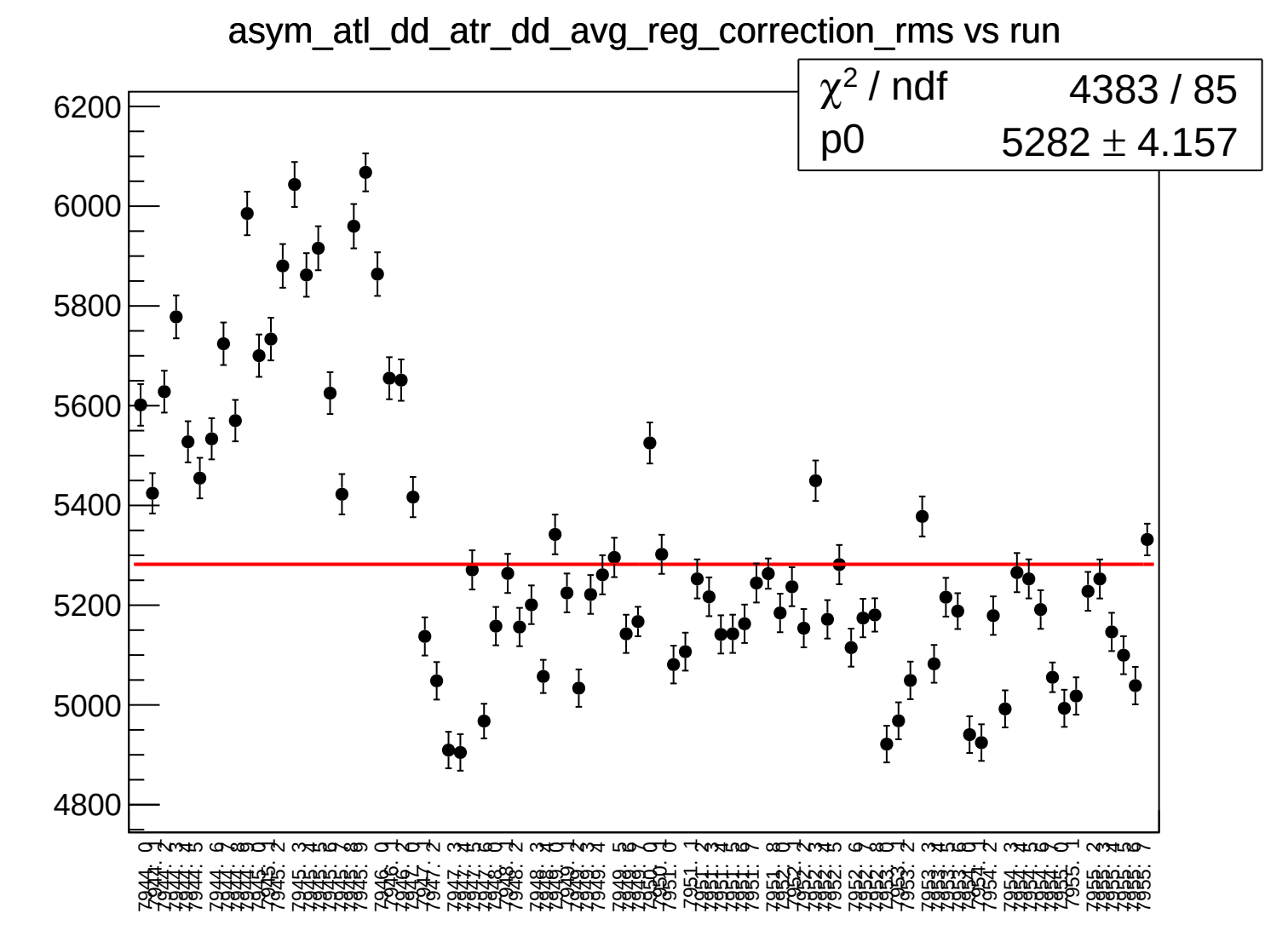

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 72.69 / 85
p0 720.7 ± 1419
pull
Entries 86
Mean 848.2
Std Dev 0

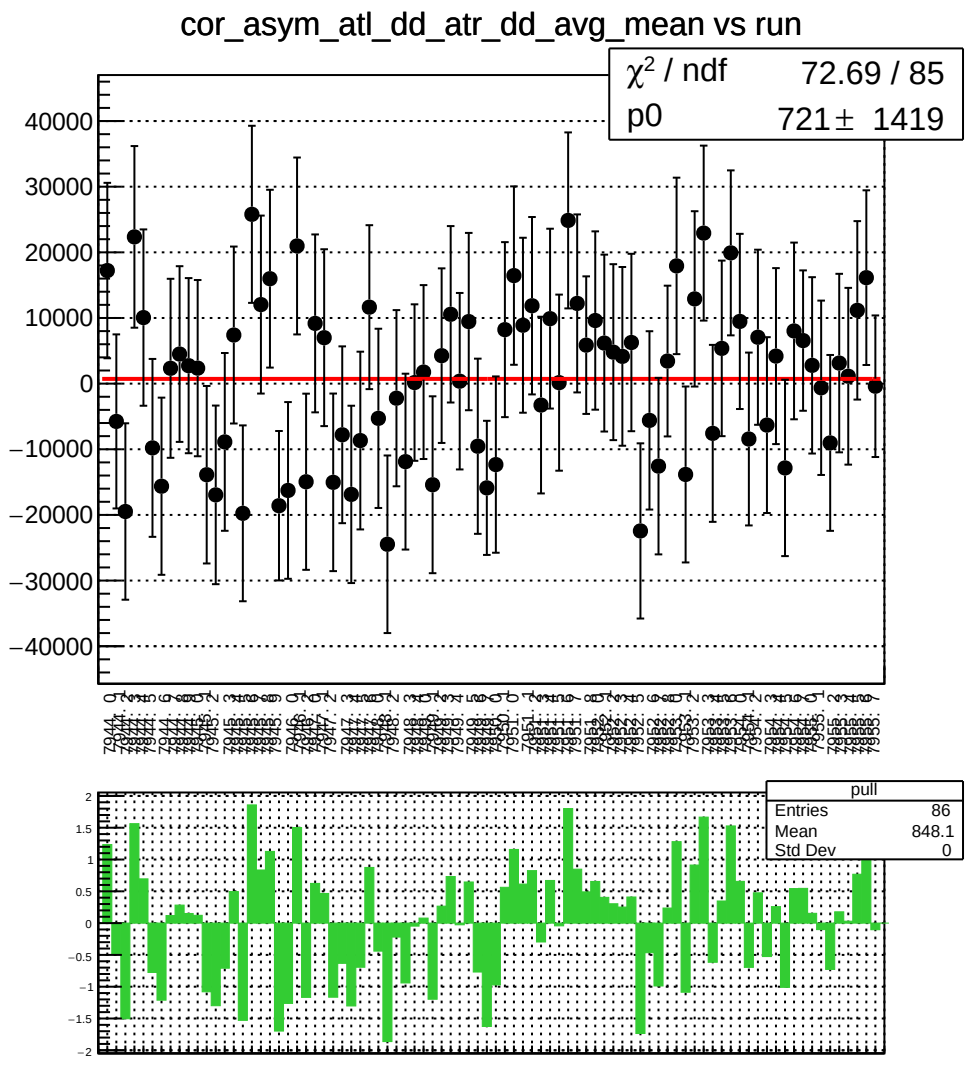

pull1D
Entries 86
Mean 0.004672
Std Dev 0.9193

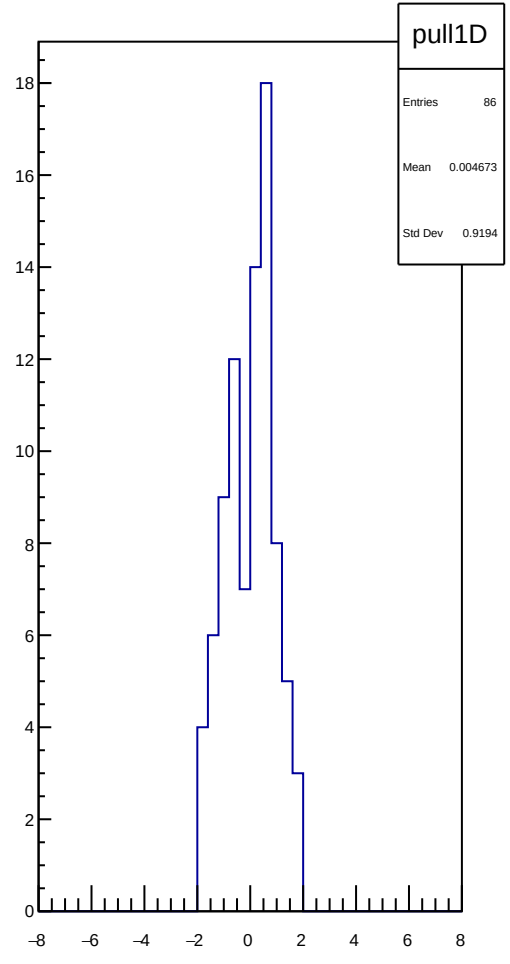

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 109.5 / 85
p0 1277 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

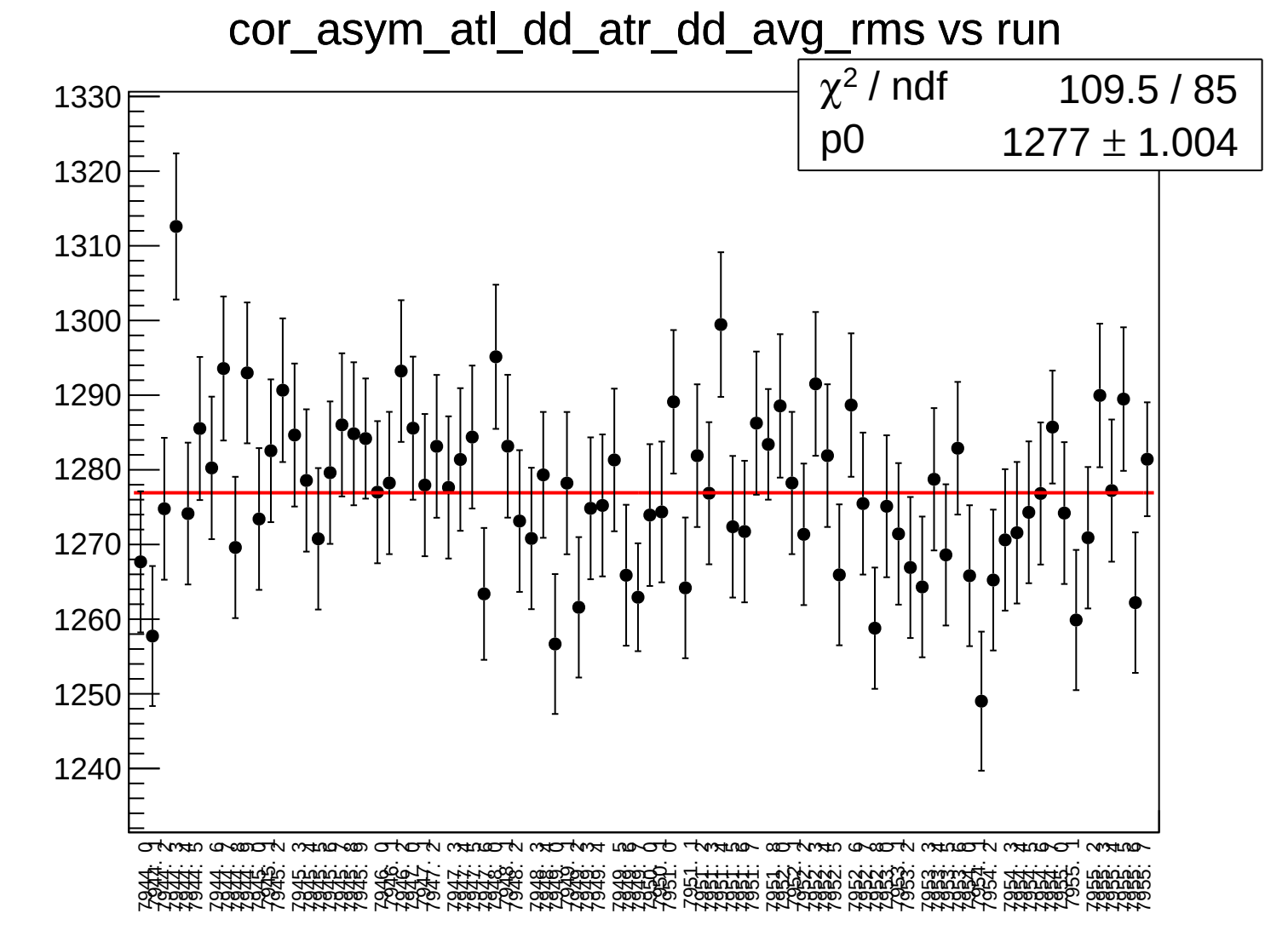

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 91.68 / 85
p0 2692 ± 5878
pull
Entries 86
Mean −222.2
Std Dev 0

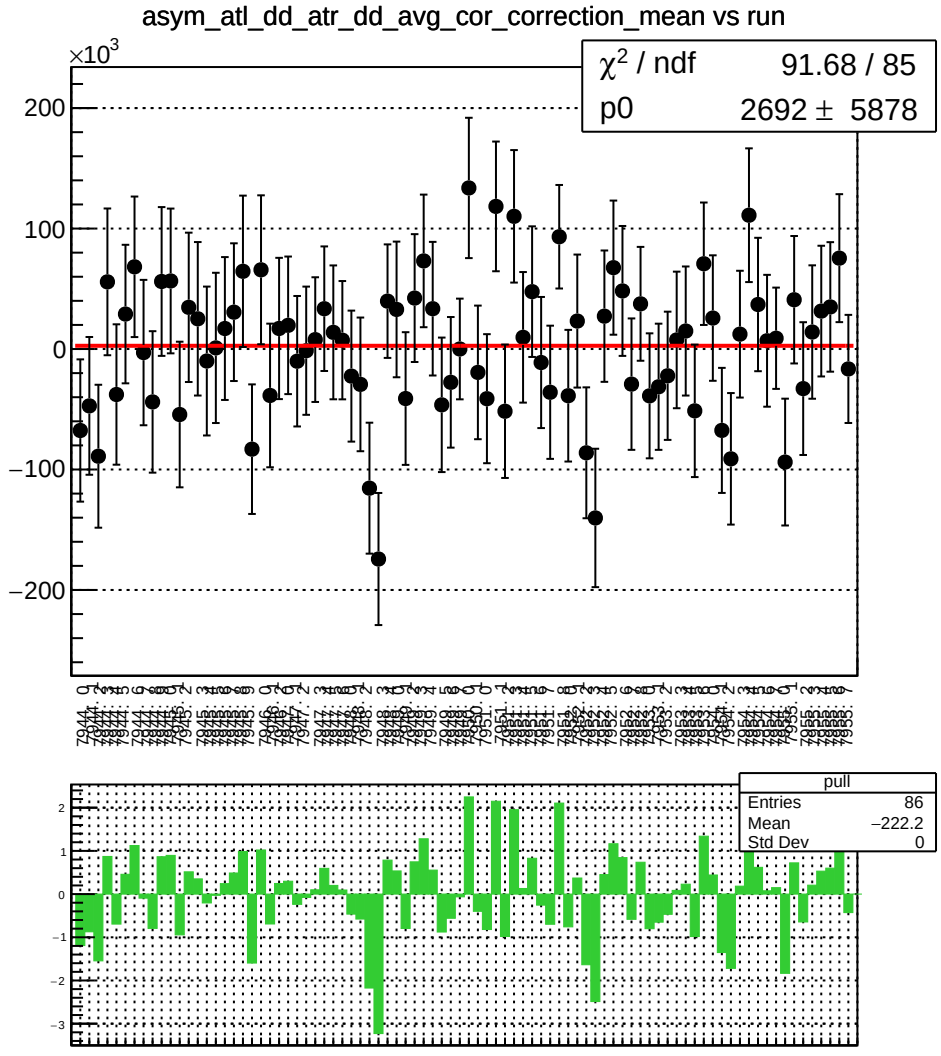

pull1D
Entries 86
Mean −0.005409
Std Dev 1.032

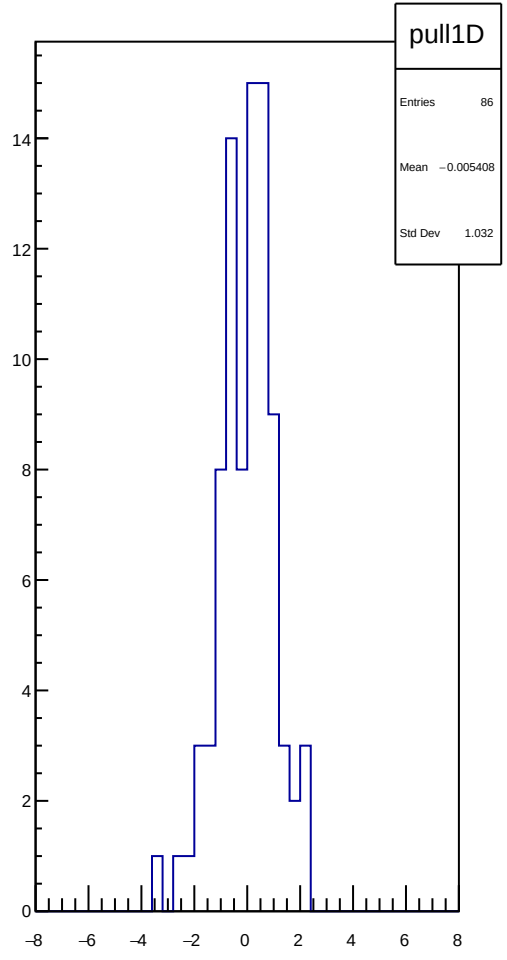

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 4383 / 85
p0 5282 ± 4.157
6200
6000
5800
5600
5400
5200
5000
4800

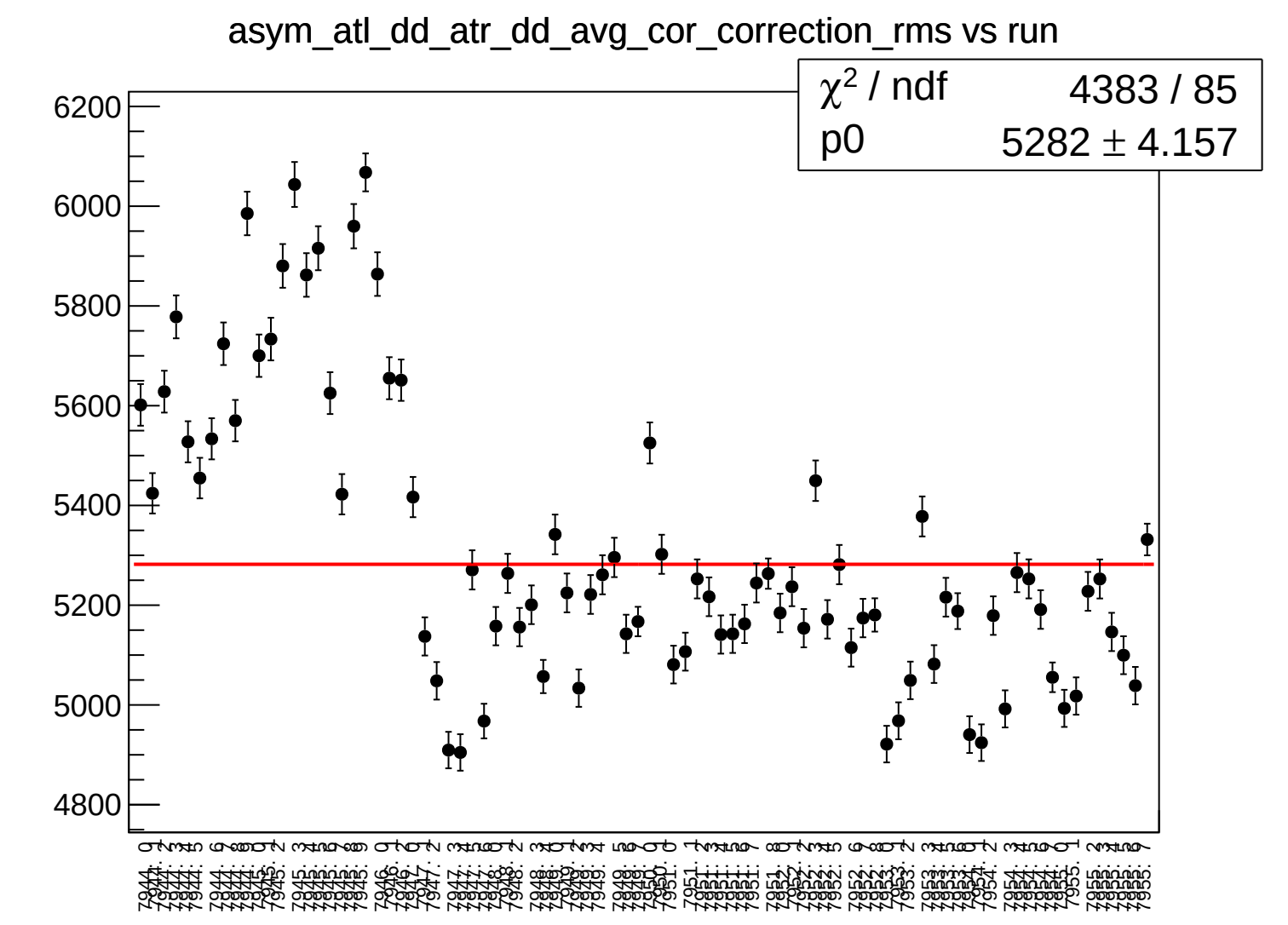

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 72.69 / 85
p0 721 ± 1419
pull
Entries 86
Mean 848.1
Std Dev 0

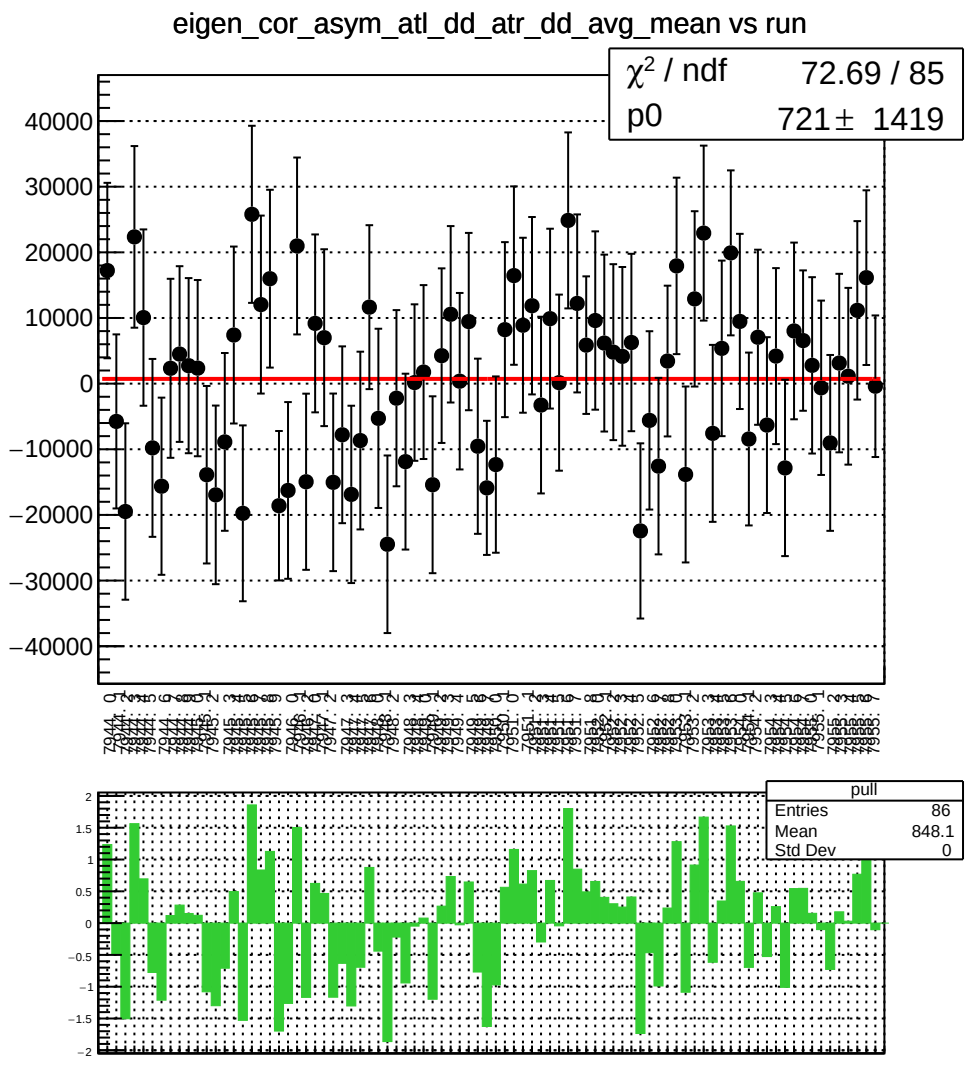

pull1D
Entries 86
Mean 0.004673
Std Dev 0.9194

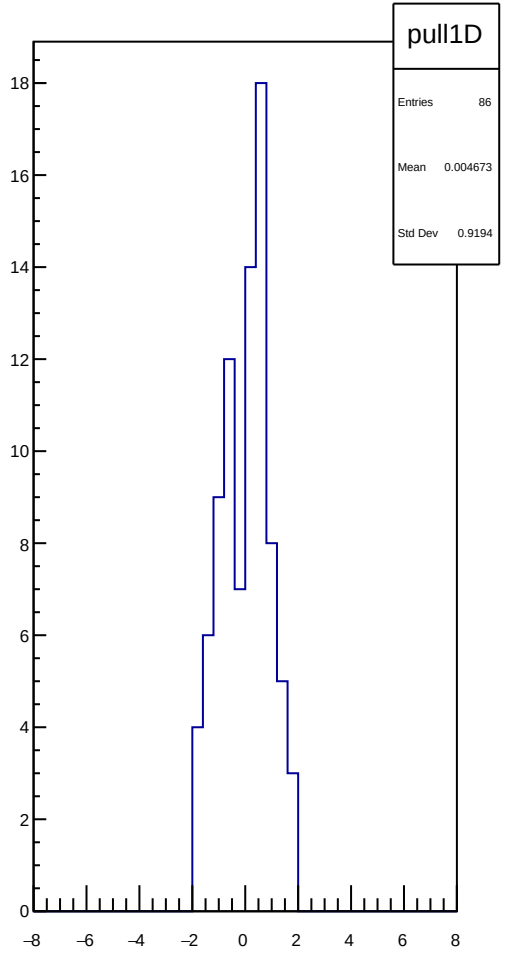

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 109.5 / 85
p0 1277 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

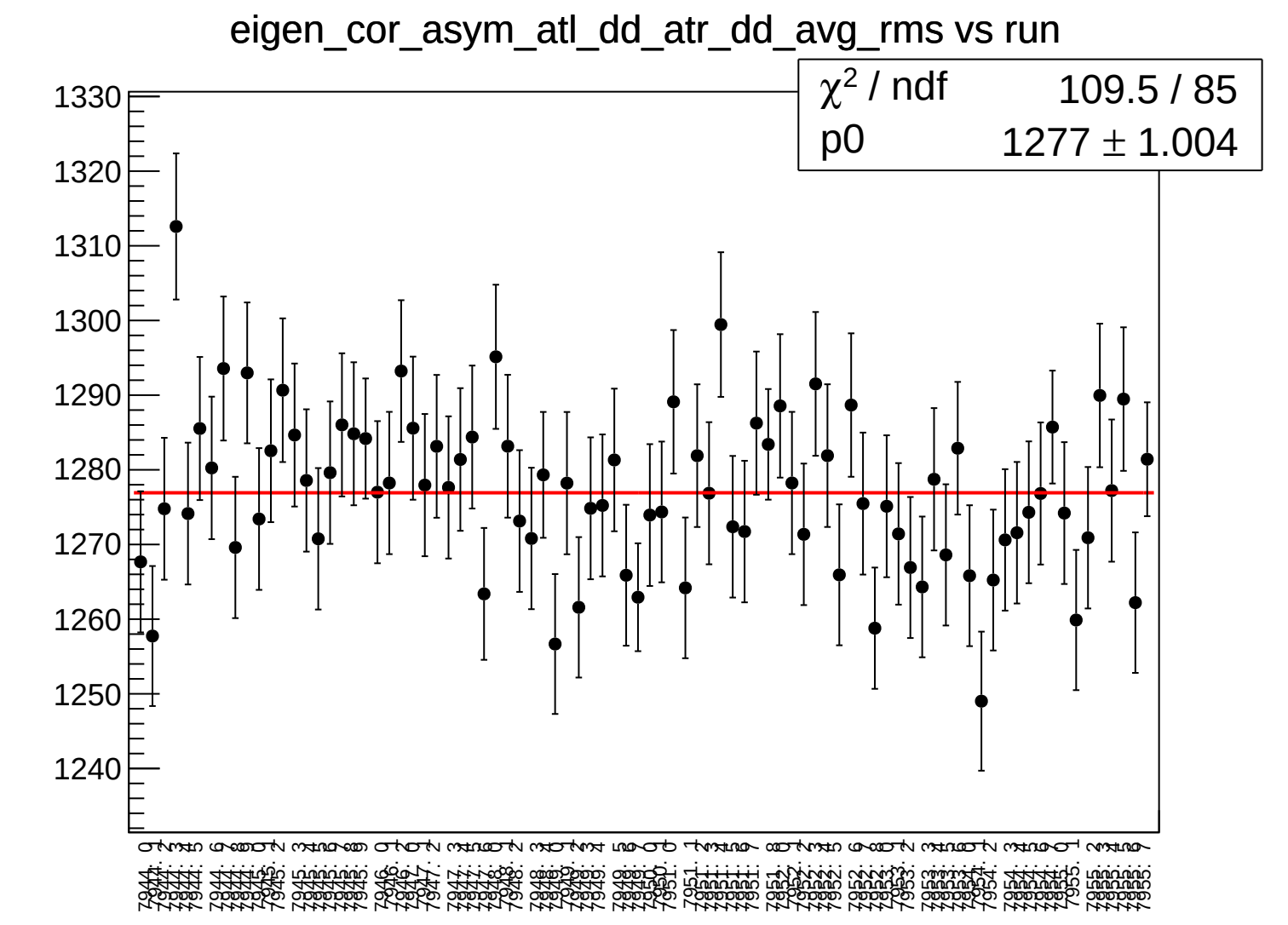

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 91.68 / 85
p0 2692 ± 5878
pull
Entries 86
Mean −222.2
Std Dev 0

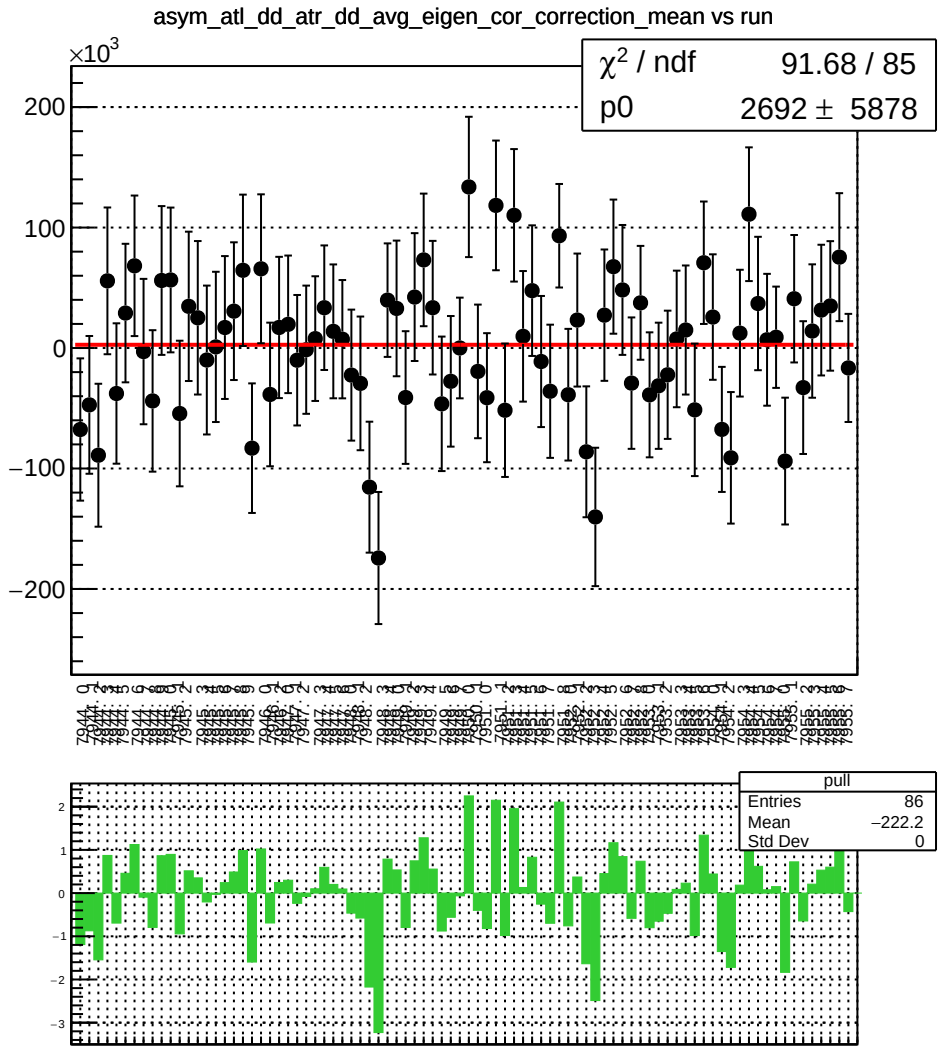

pull1D
Entries 86
Mean −0.005408
Std Dev 1.032

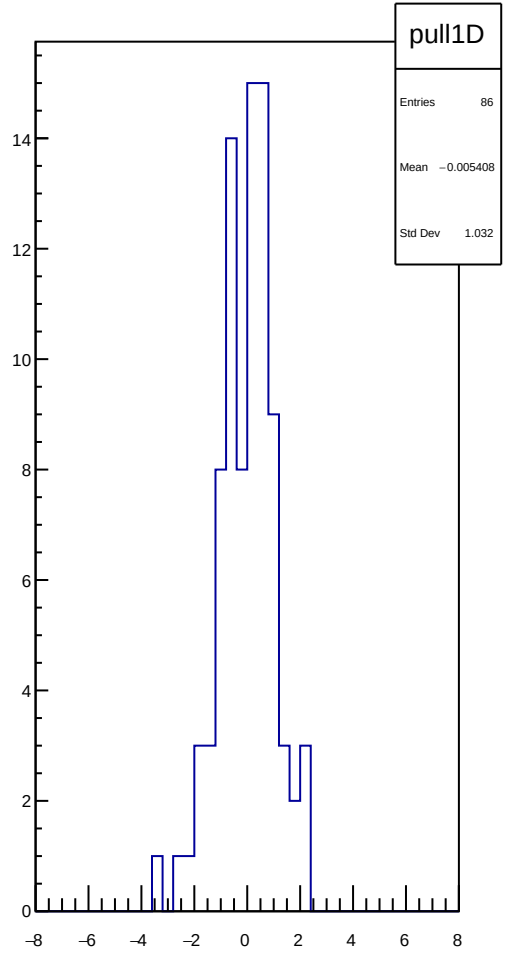

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 4383 / 85
p0 5282 ± 4.157
6200
6000
5800
5600
5400
5200
5000
4800

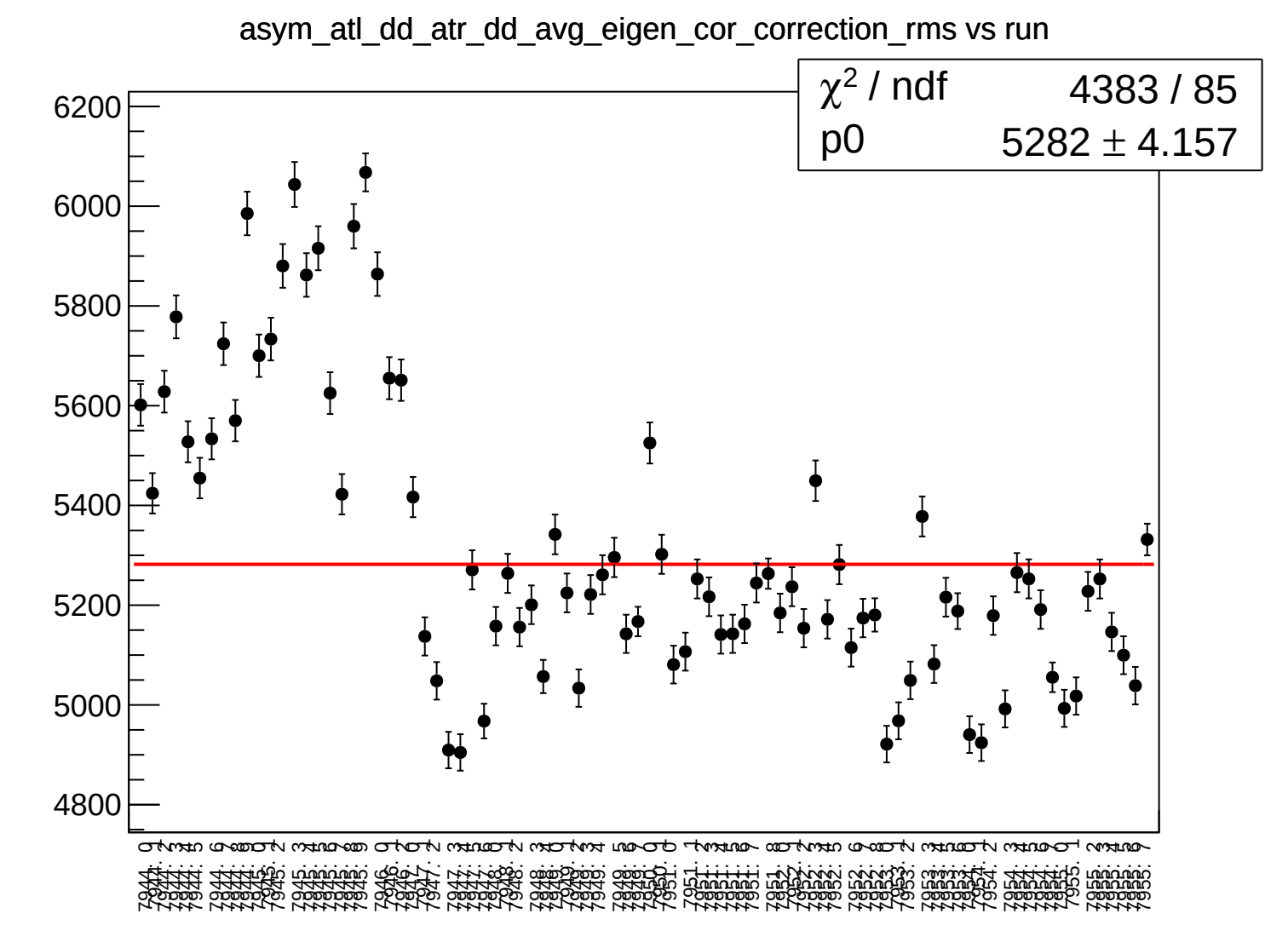

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 72.69 / 85
p0 721 ± 1419
pull
Entries 86
Mean 848.1
Std Dev 0

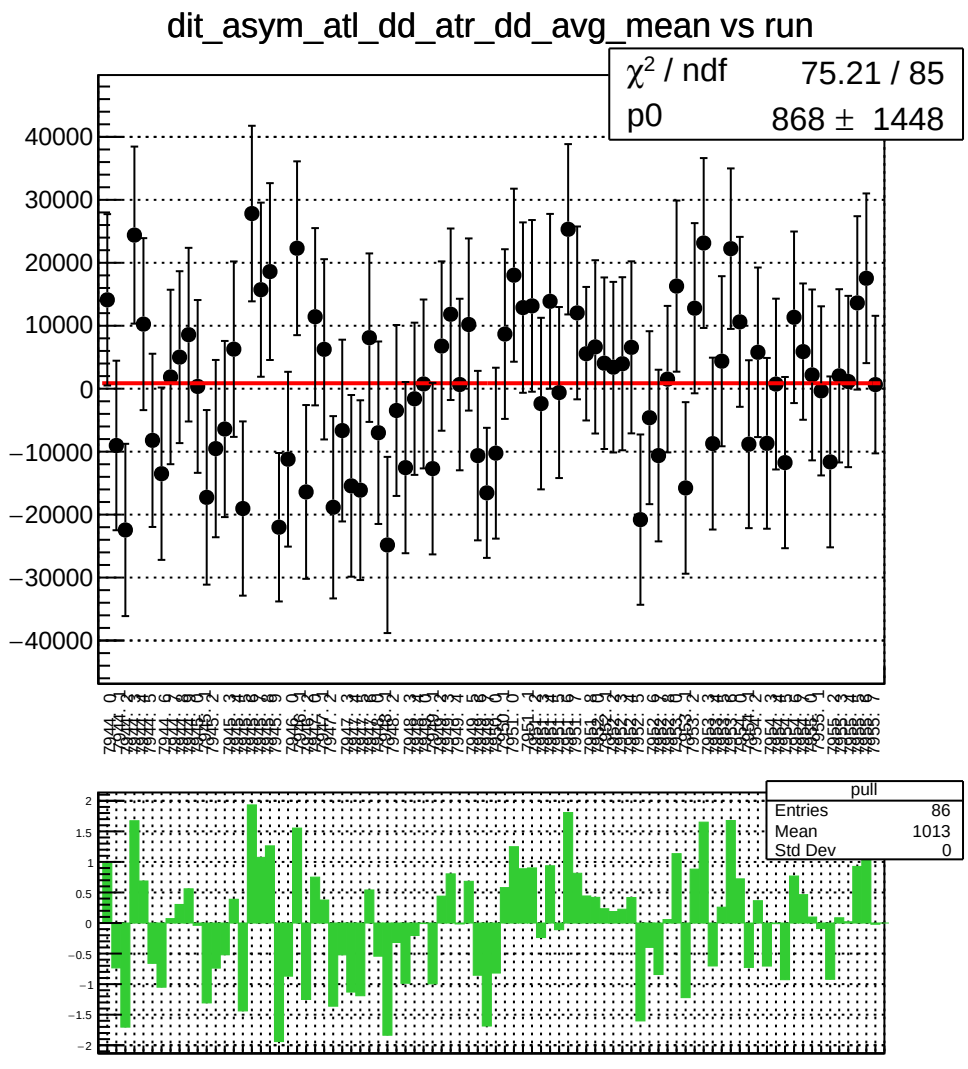

pull1D
Entries 86
Mean 0.004673
Std Dev 0.9194

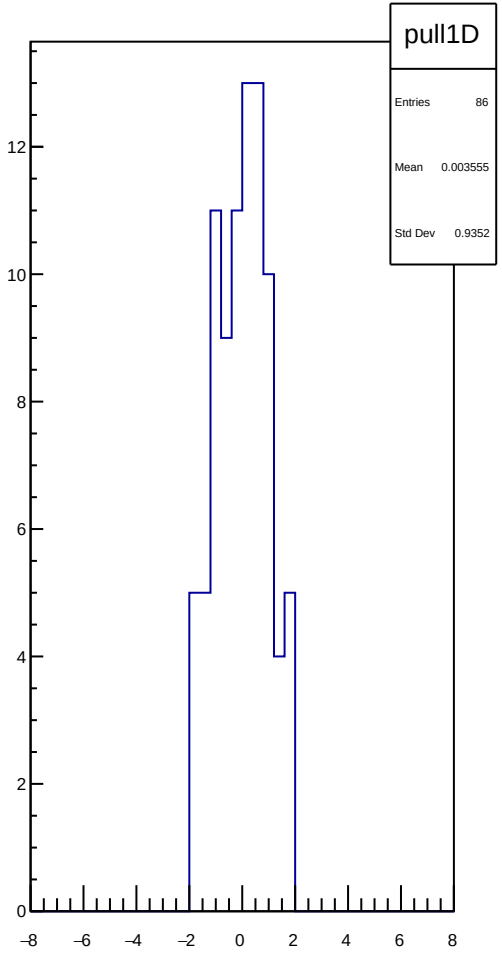

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 109.5 / 85
p0 1277 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

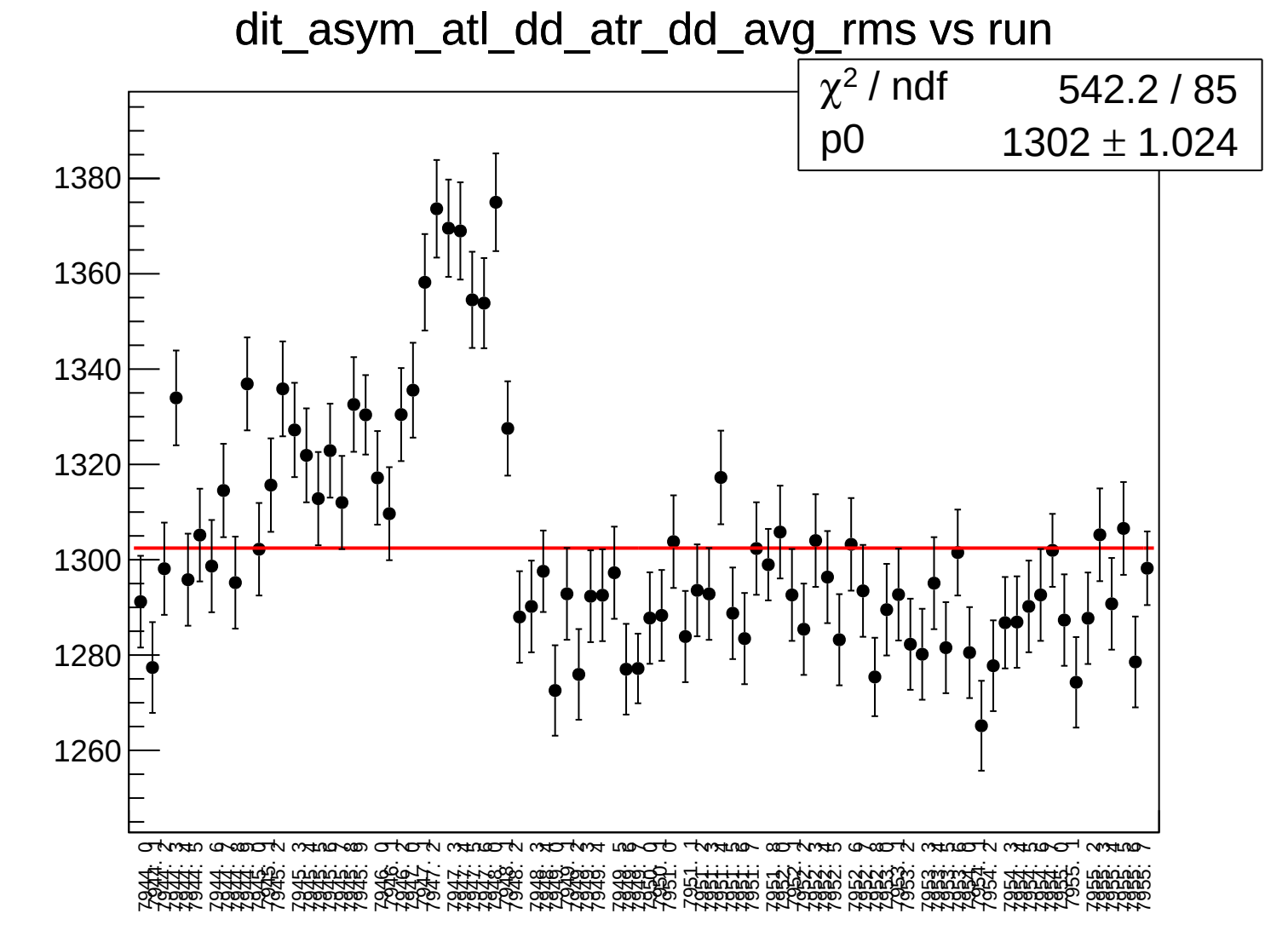

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.68 / 85
p0 2692 ± 5878
200
100
0
−100
−200
pull
Entries 86
Mean −222.2
Std Dev 0
2
1
0
−1
−2
−3

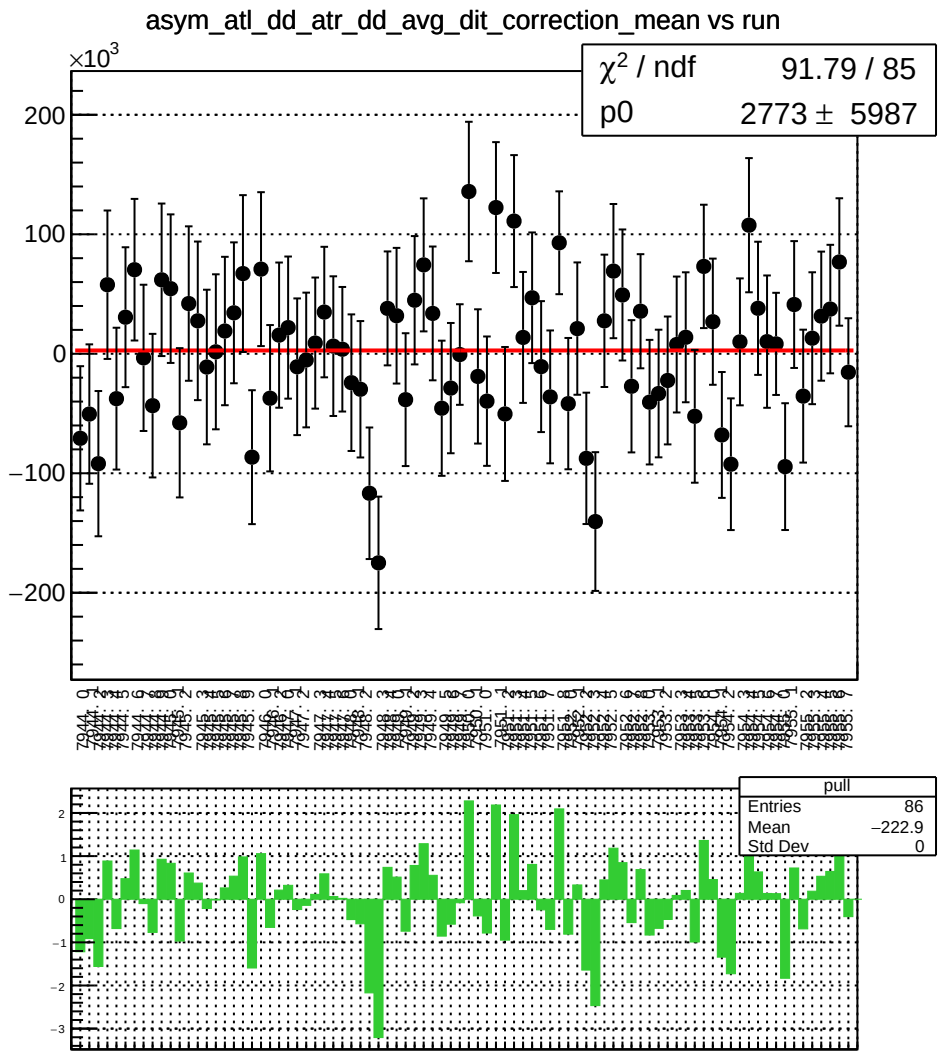

pull1D
Entries 86
Mean −0.005408
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

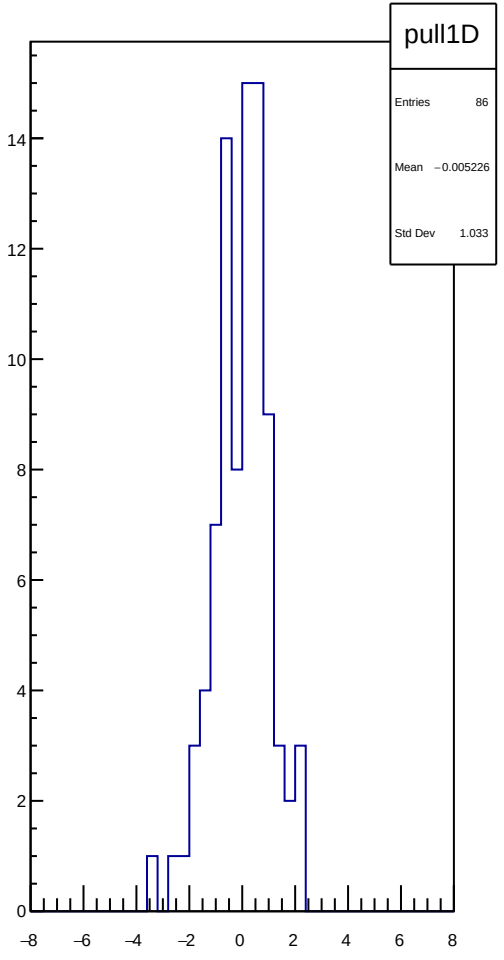

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4383 / 85
p0 5282 ± 4.157
6200
6000
5800
5600
5400
5200
5000
4800

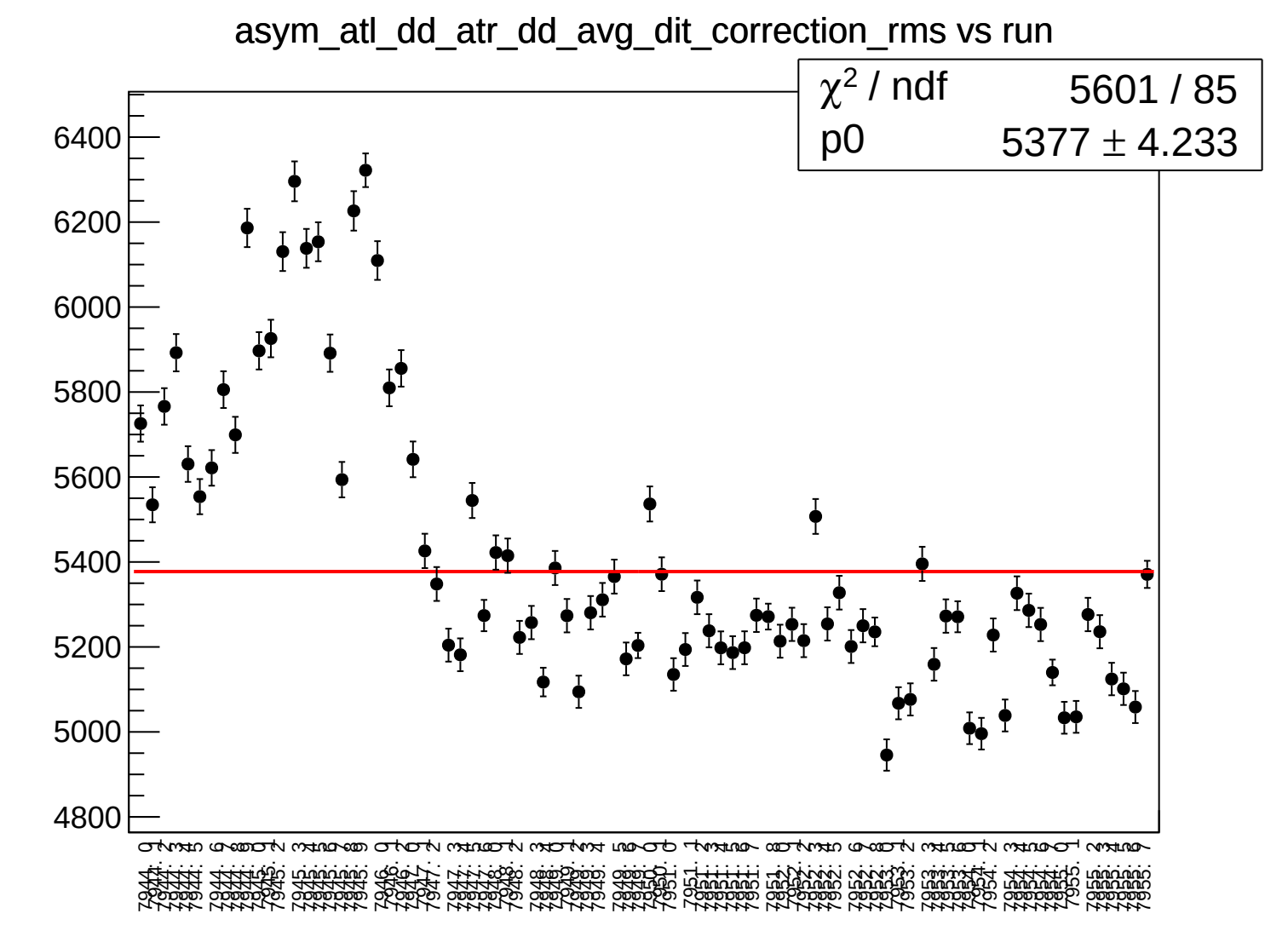

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 75.21 / 85
p0 868 ± 1448
pull
Entries 86
Mean 1013
Std Dev 0

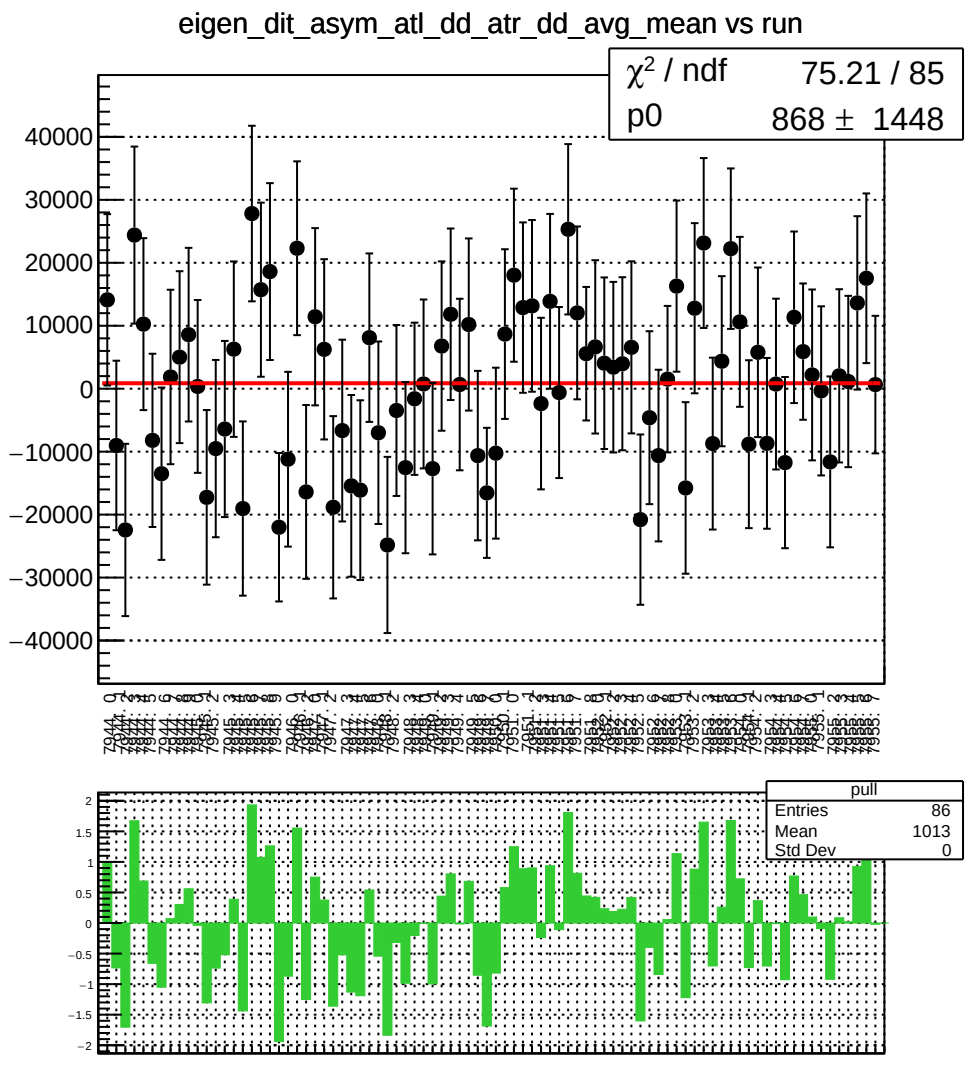

pull1D
Entries 86
Mean 0.003555
Std Dev 0.9352

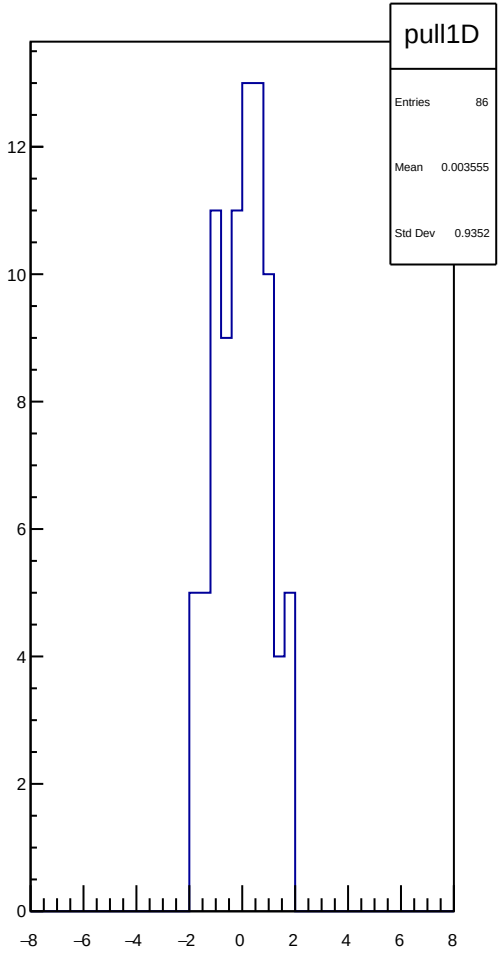

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 542.2 / 85
p0 1302 ± 1.024
1380
1360
1340
1320
1300
1280
1260

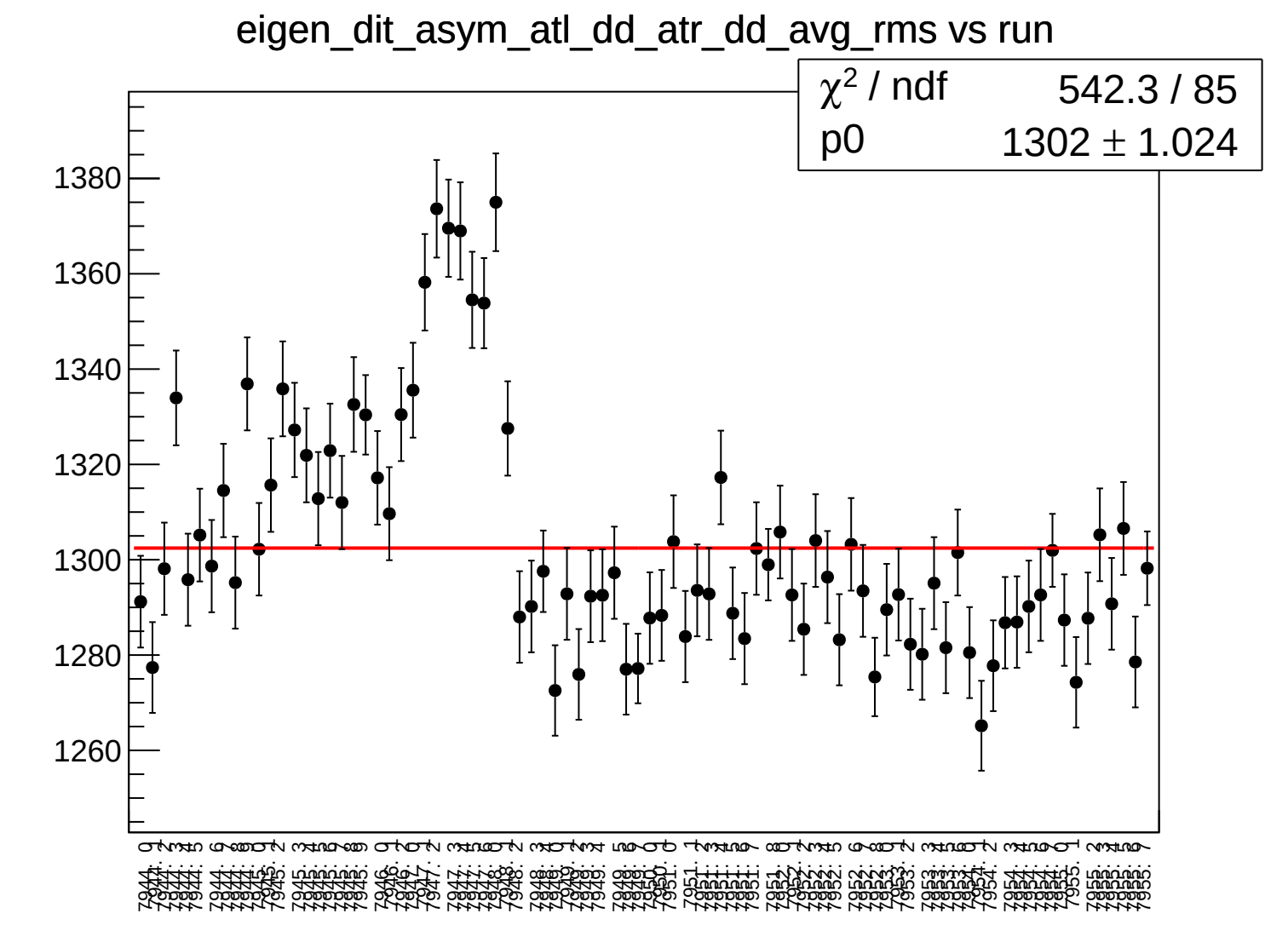

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.79 / 85
p0 2773 ± 5987
200
100
0
−100
−200
pull
Entries 86
Mean −222.9
Std Dev 0
2
1
0
−1
−2
−3

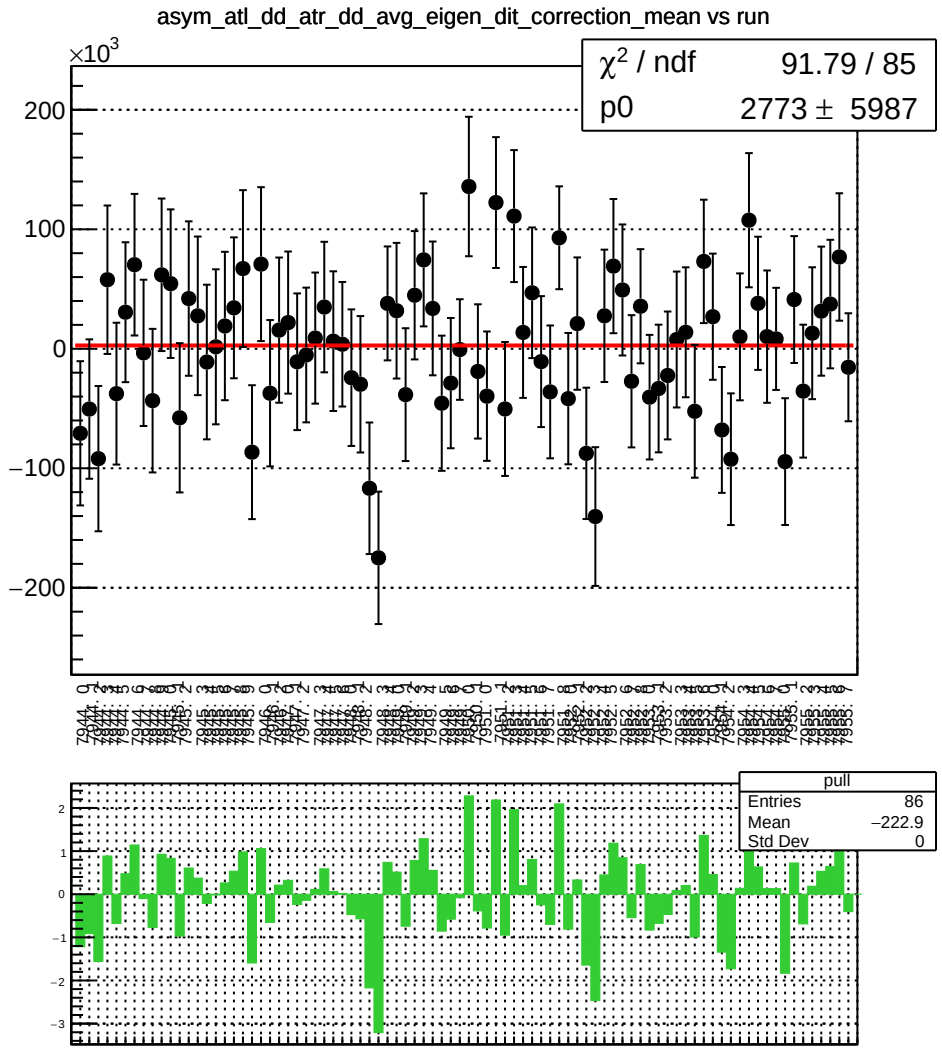

pull1D
Entries 86
Mean −0.005226
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

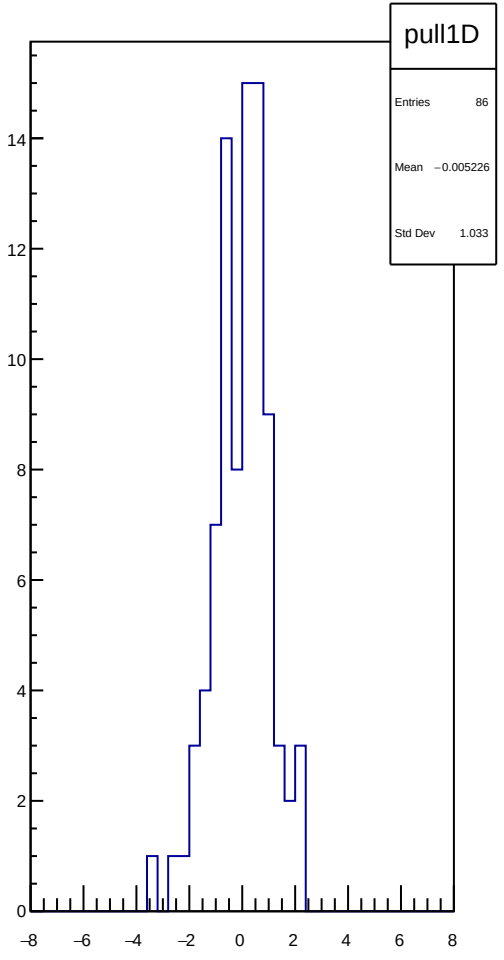

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 5601 / 85
p0 5377 ± 4.233
6400
6200
6000
5800
5600
5400
5200
5000
4800

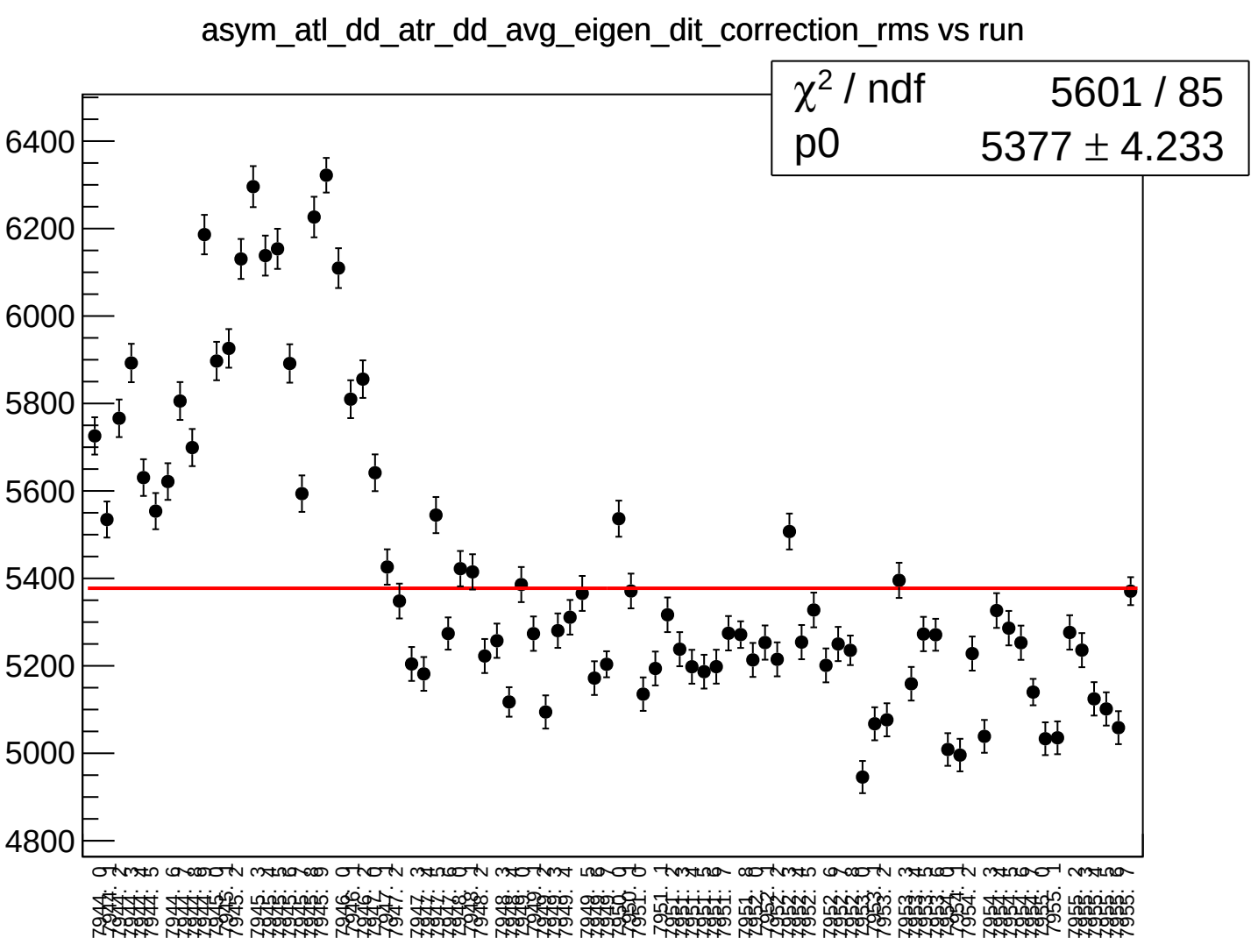

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 75.21 / 85
p0 868 ± 1448
pull
Entries 86
Mean 1013
Std Dev 0

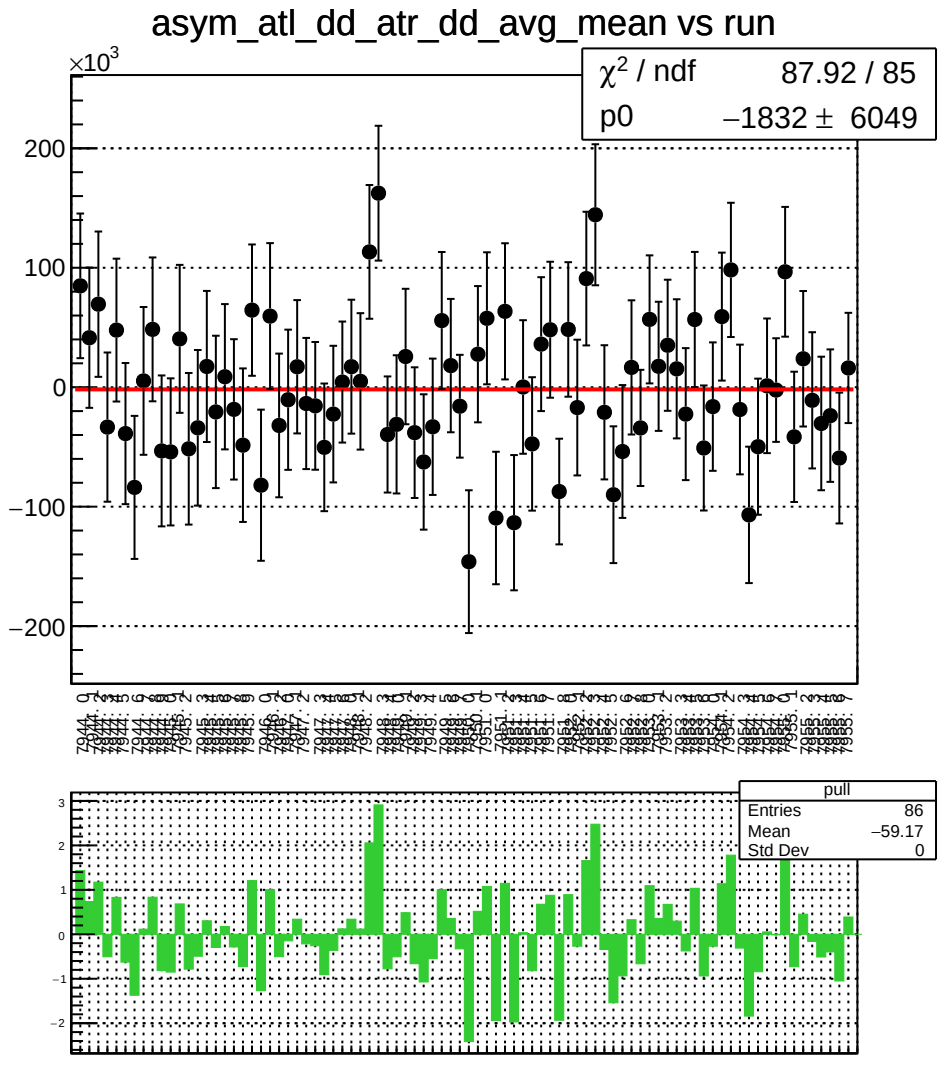

pull1D
Entries 86
Mean 0.003555
Std Dev 0.9352

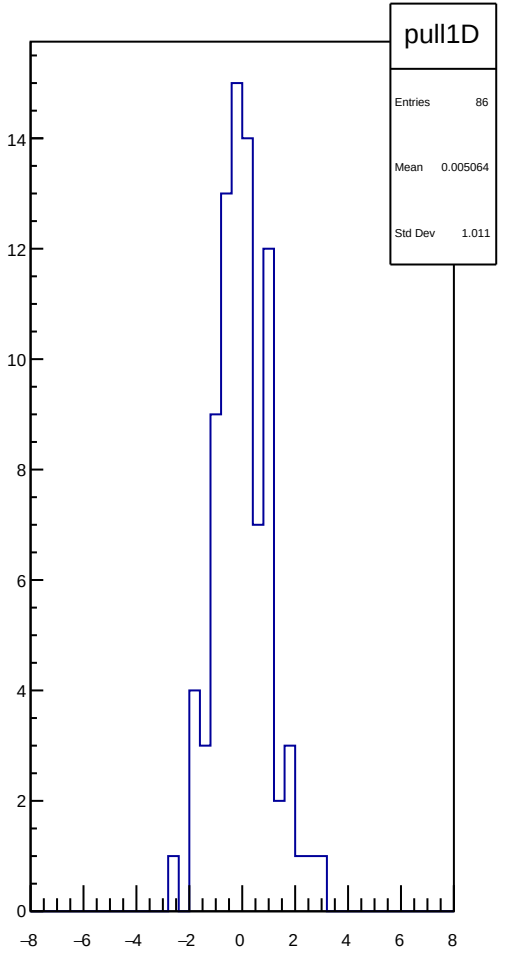

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 542.3 / 85
p0 1302 ± 1.024
1380
1360
1340
1320
1300
1280
1260

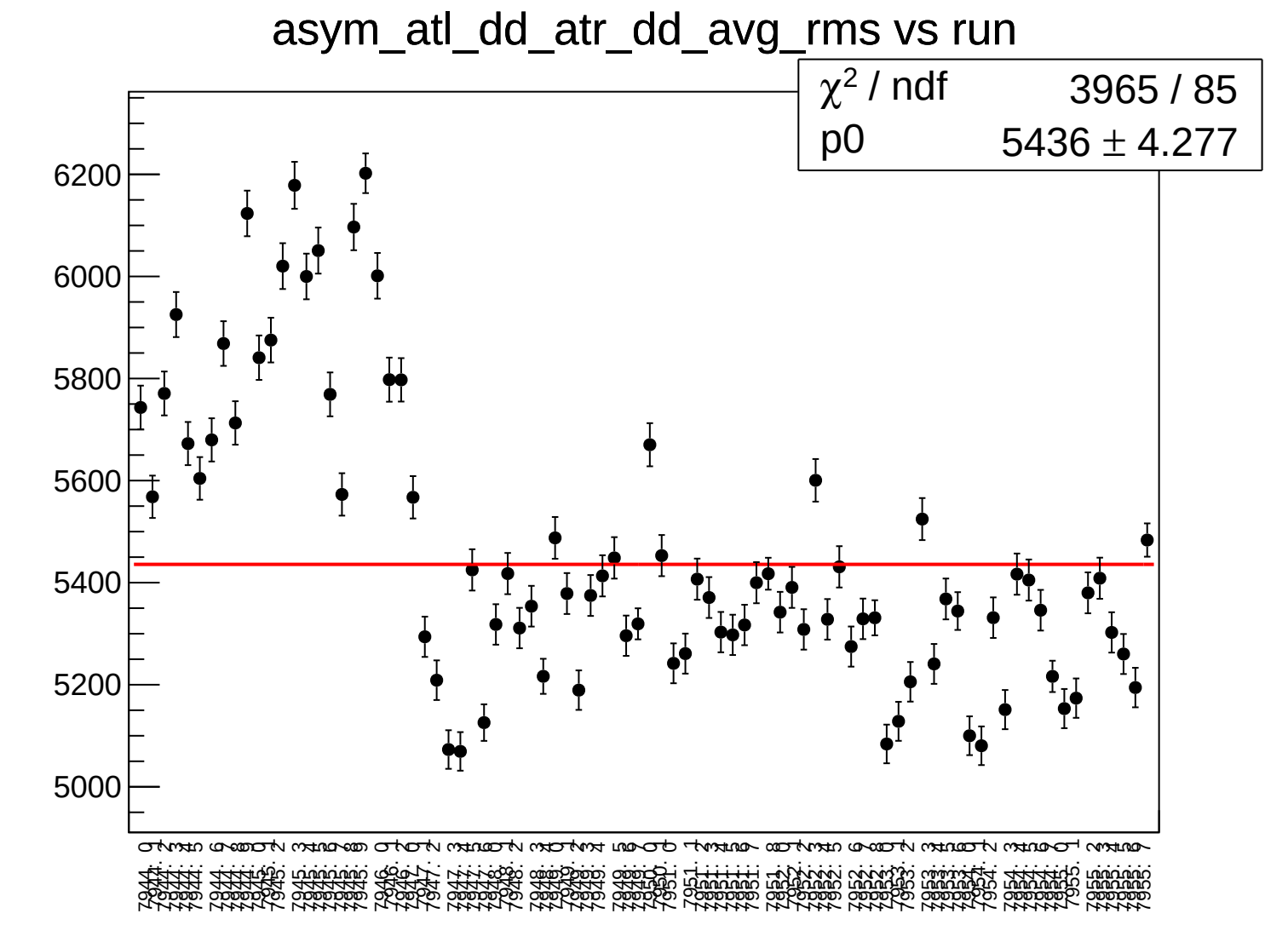

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.79 / 85
p0 2773 ± 5987
200
100
0
−100
−200
pull
Entries 86
Mean −222.9
Std Dev 0
2
1
0
−1
−2
−3

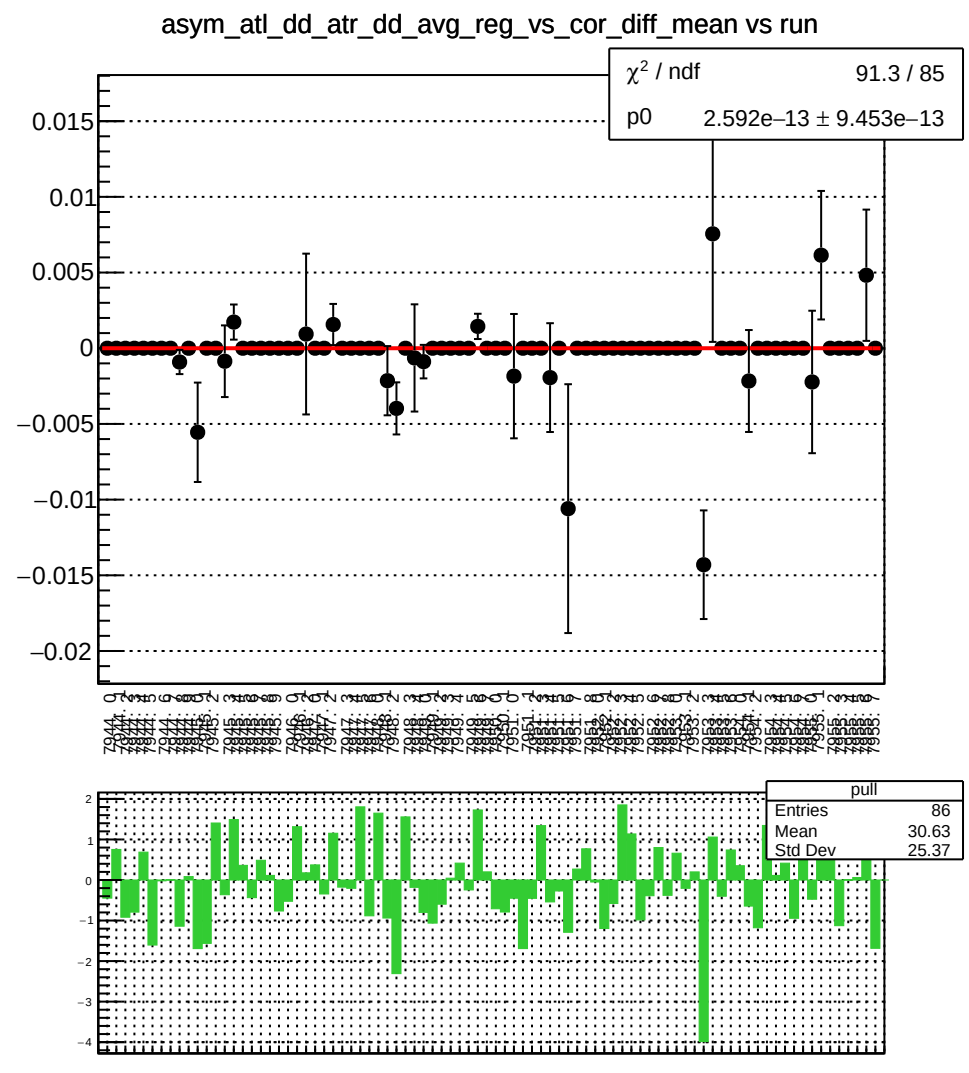

pull1D
Entries 86
Mean −0.005226
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

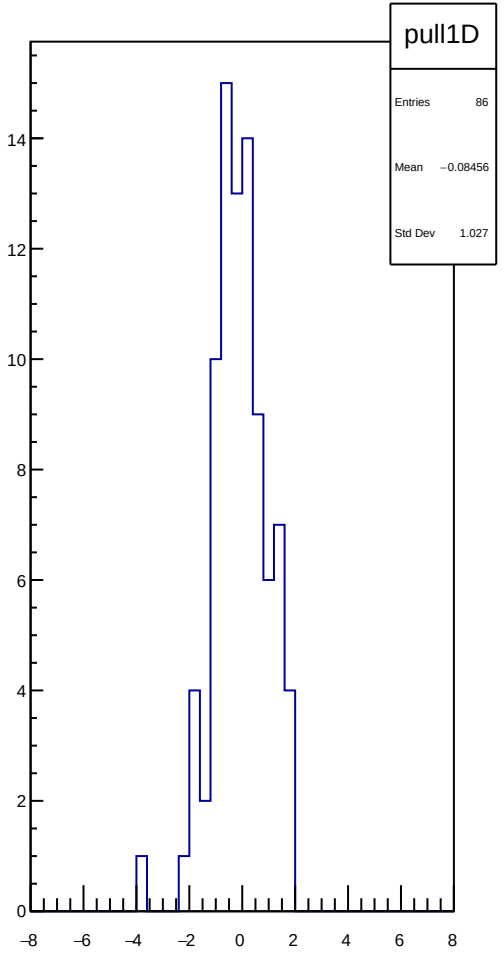

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5601 / 85
p0 5377 ± 4.233
6400
6200
6000
5800
5600
5400
5200
5000
4800

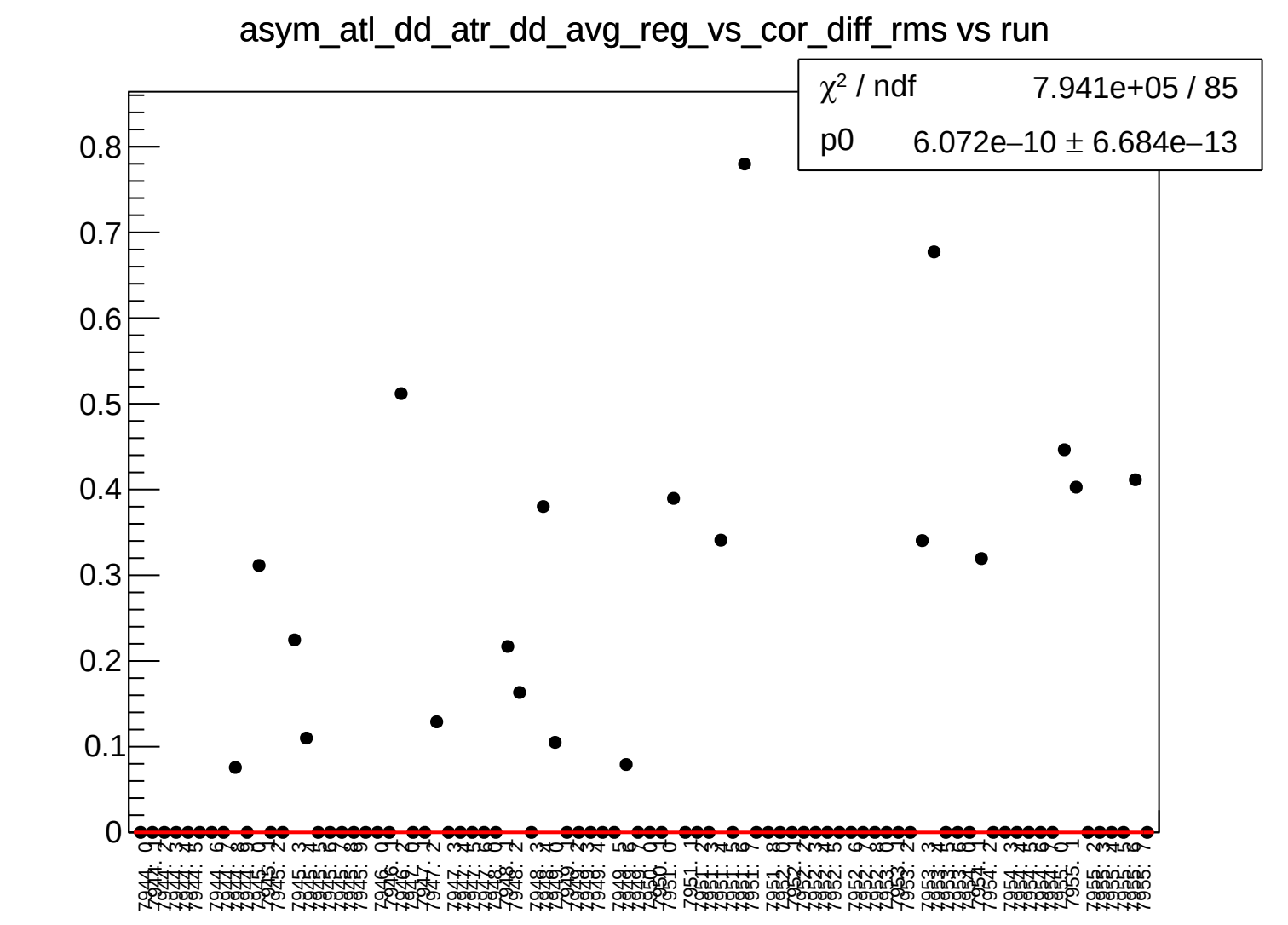

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 87.92 / 85
p0 −1832 ± 6049
200
100
0
−100
−200
pull
Entries 86
Mean −59.17
Std Dev 0
3
2
1
0
−1
−2

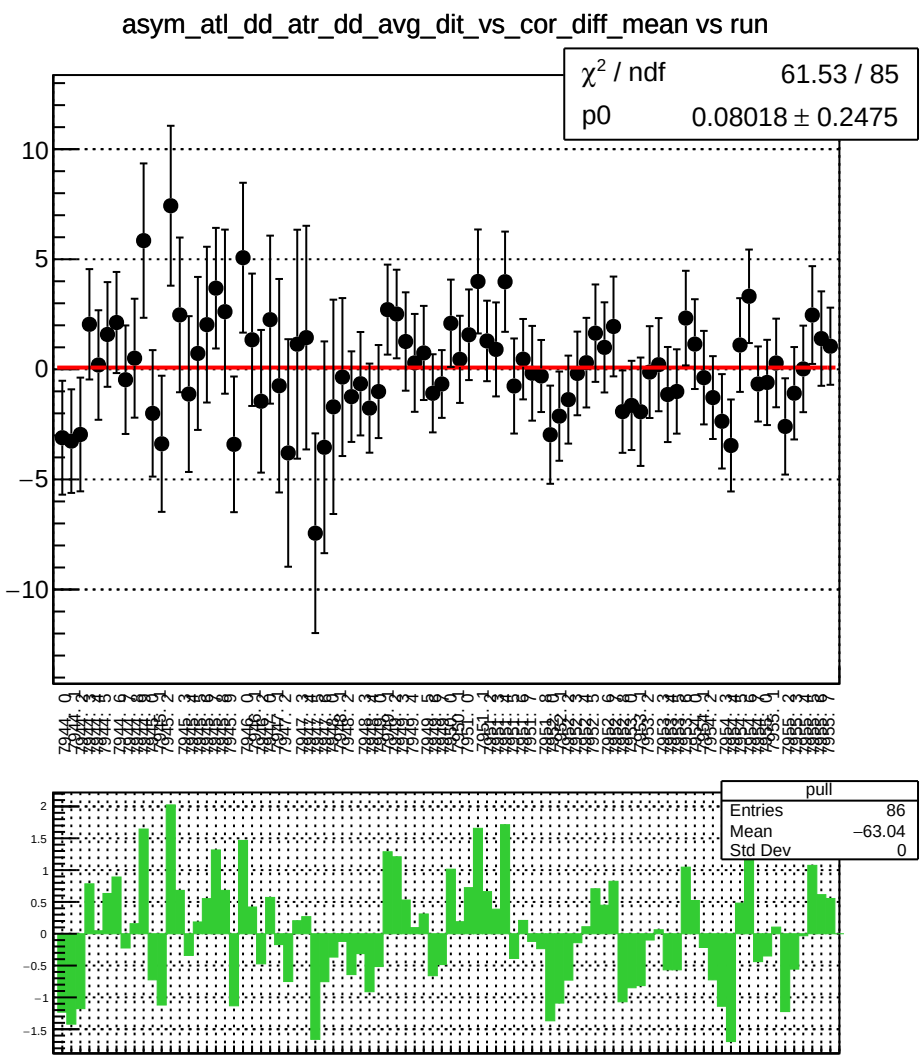

pull1D
Entries 86
Mean 0.005064
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

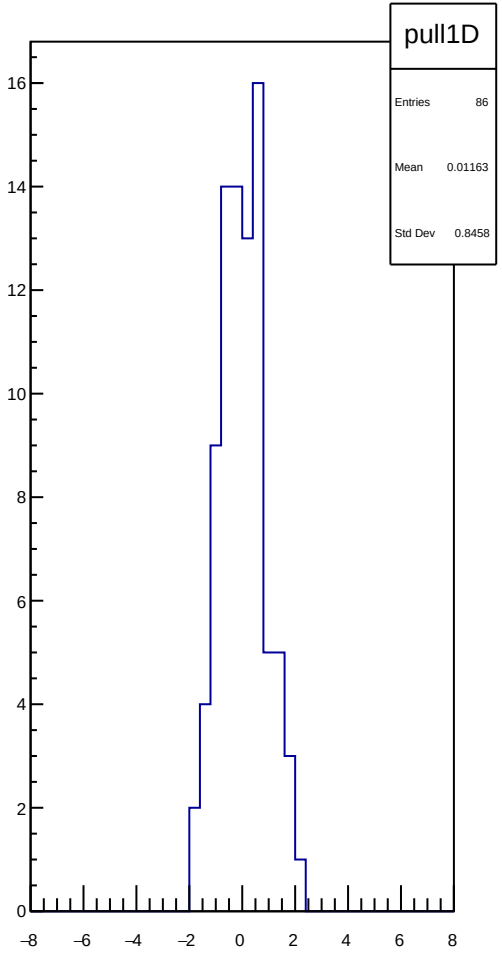

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3965 / 85
p0 5436 ± 4.277
6200
6000
5800
5600
5400
5200
5000

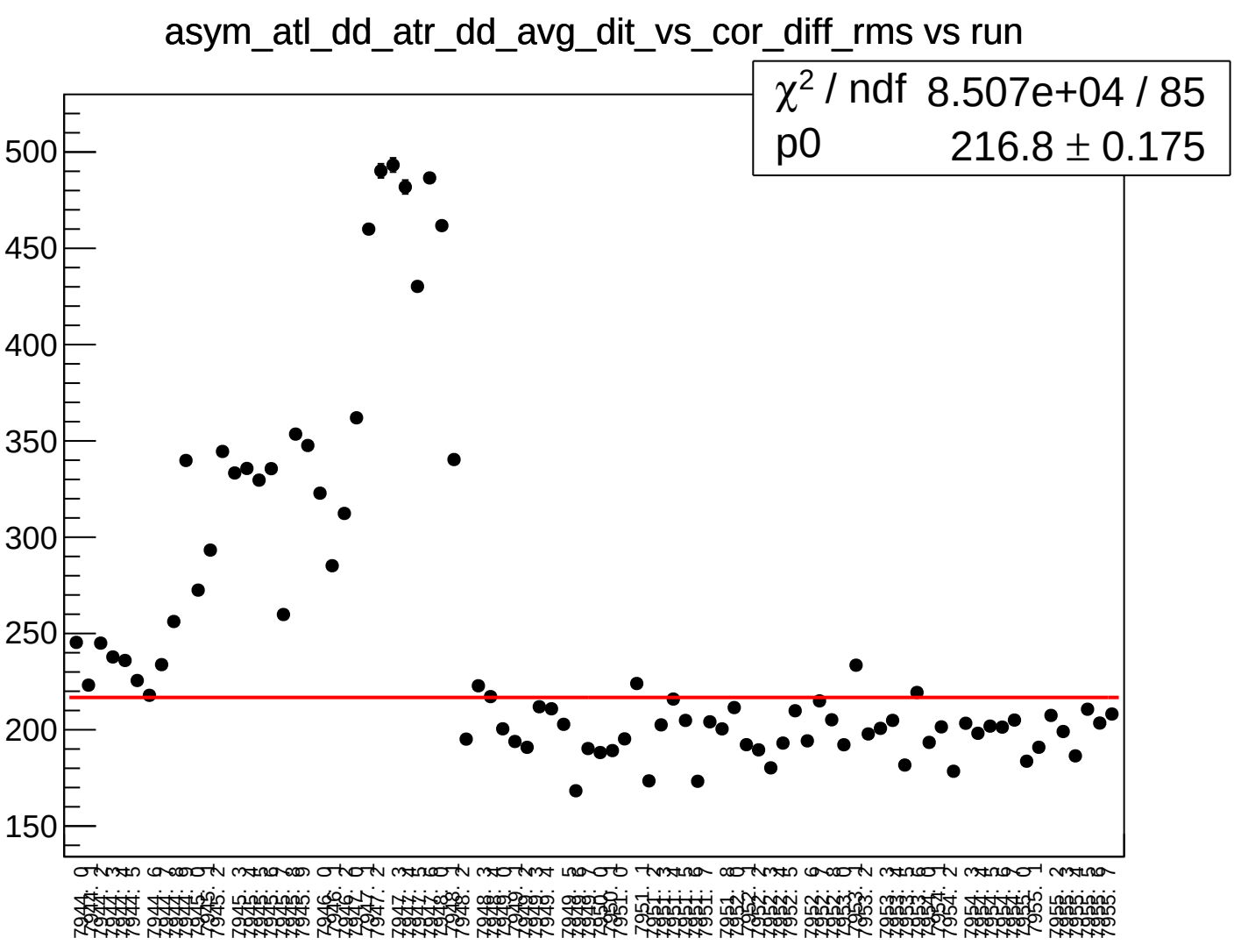

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.3 / 85
p0 2.592e−13 ± 9.453e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 86
Mean 30.63
Std Dev 25.37
2
1
0
−1
−2
−3
−4

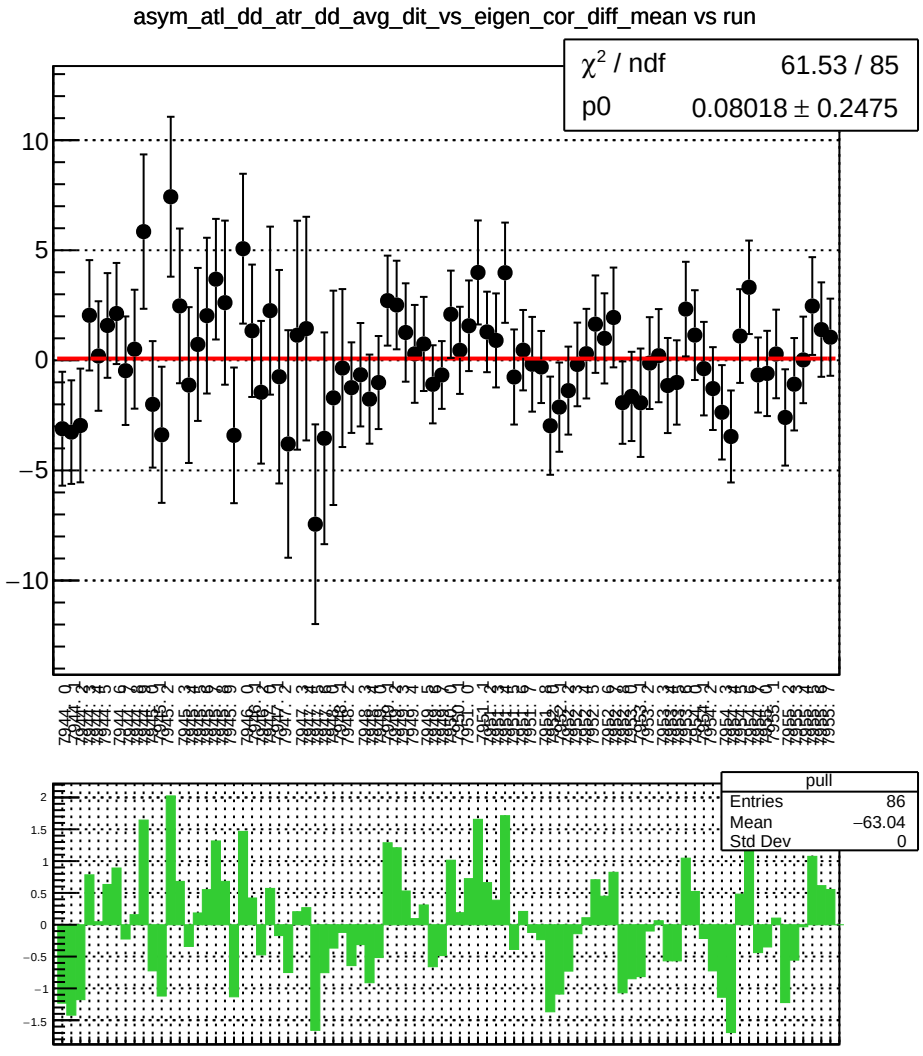

pull1D
Entries 86
Mean −0.08456
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

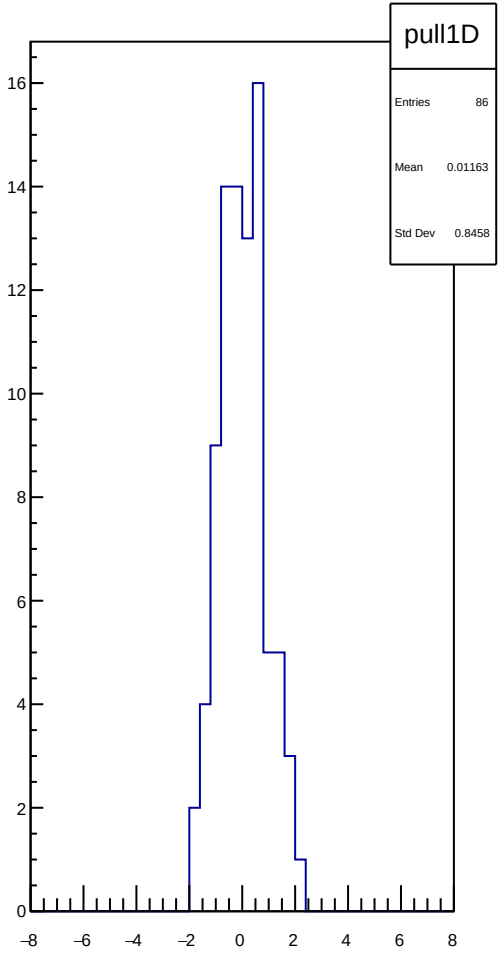

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.941e+05 / 85
p0 6.072e−10 ± 6.684e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

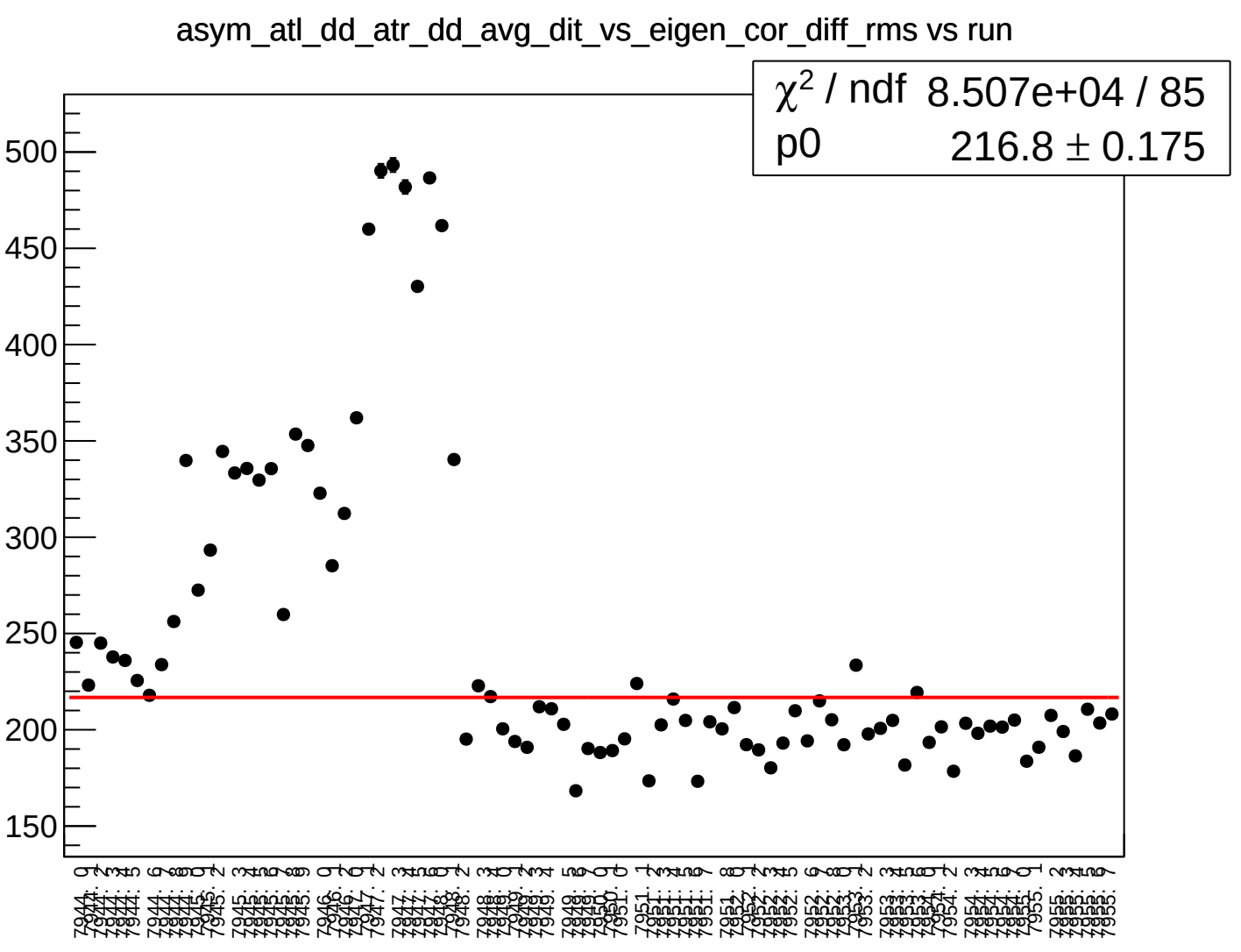

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08018 ± 0.2475
pull
Entries 86
Mean −63.04
Std Dev 0

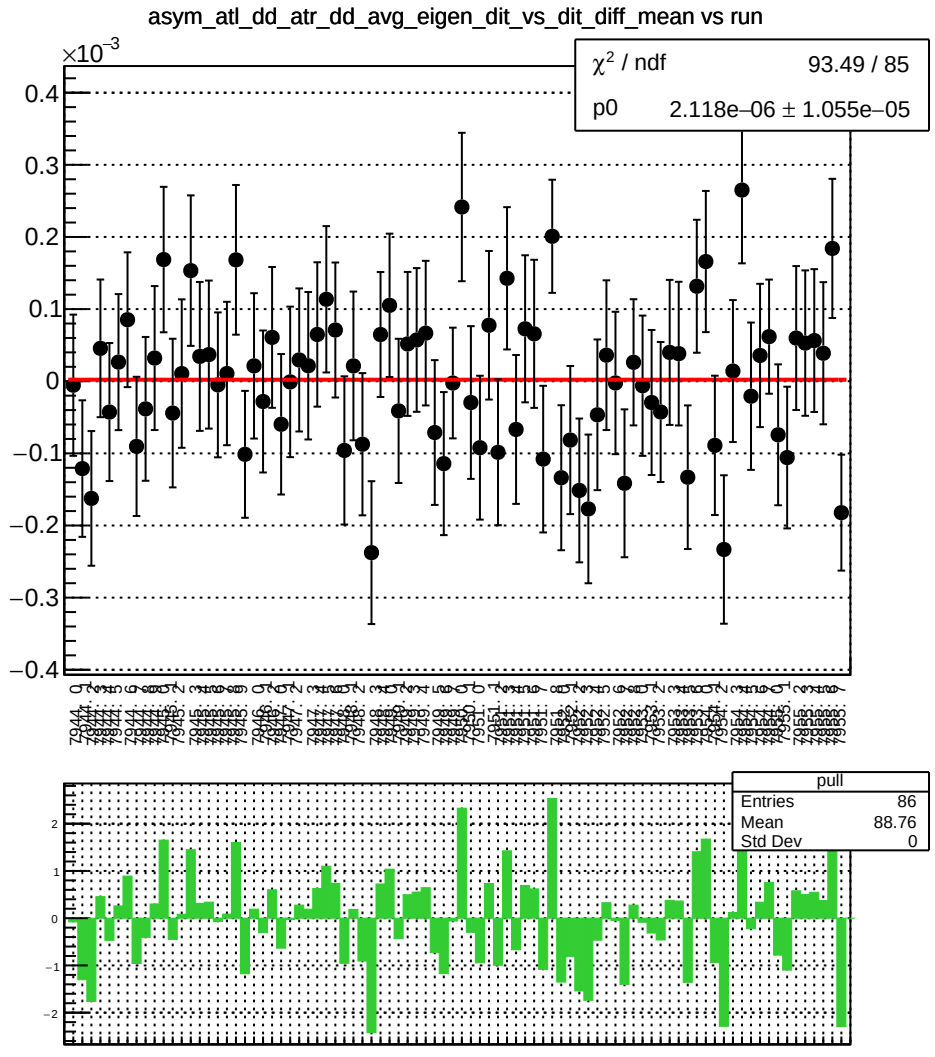

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

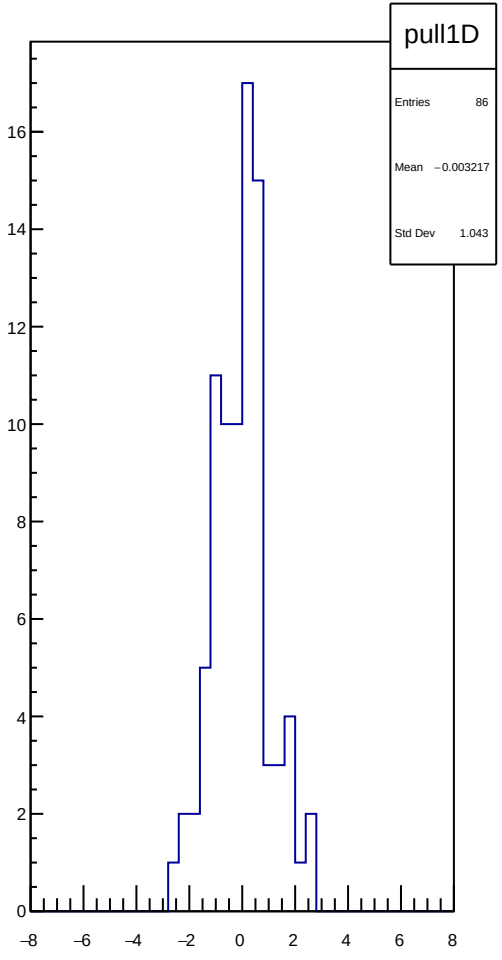

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

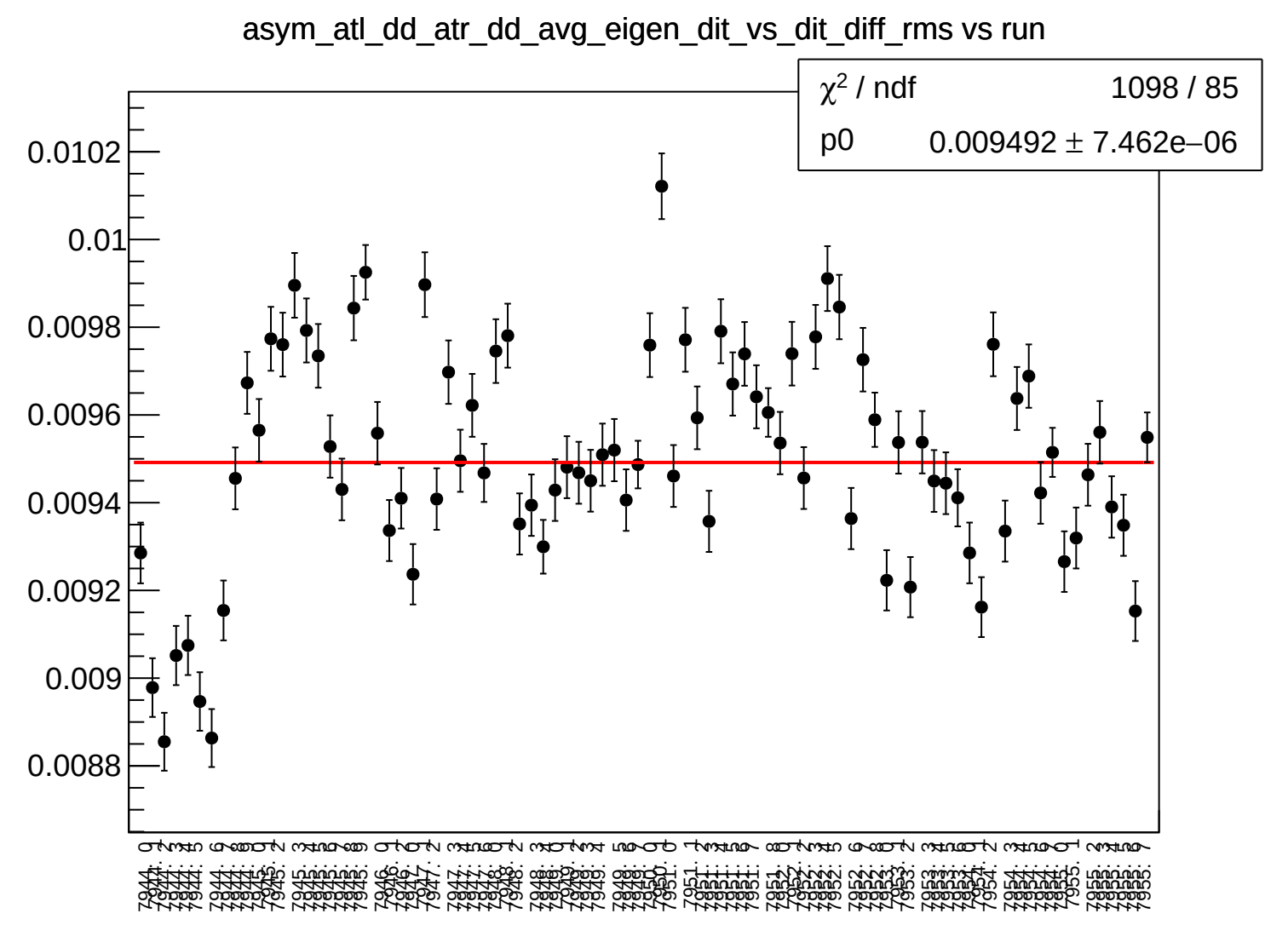

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08018 ± 0.2475
pull
Entries 86
Mean −63.04
Std Dev 0

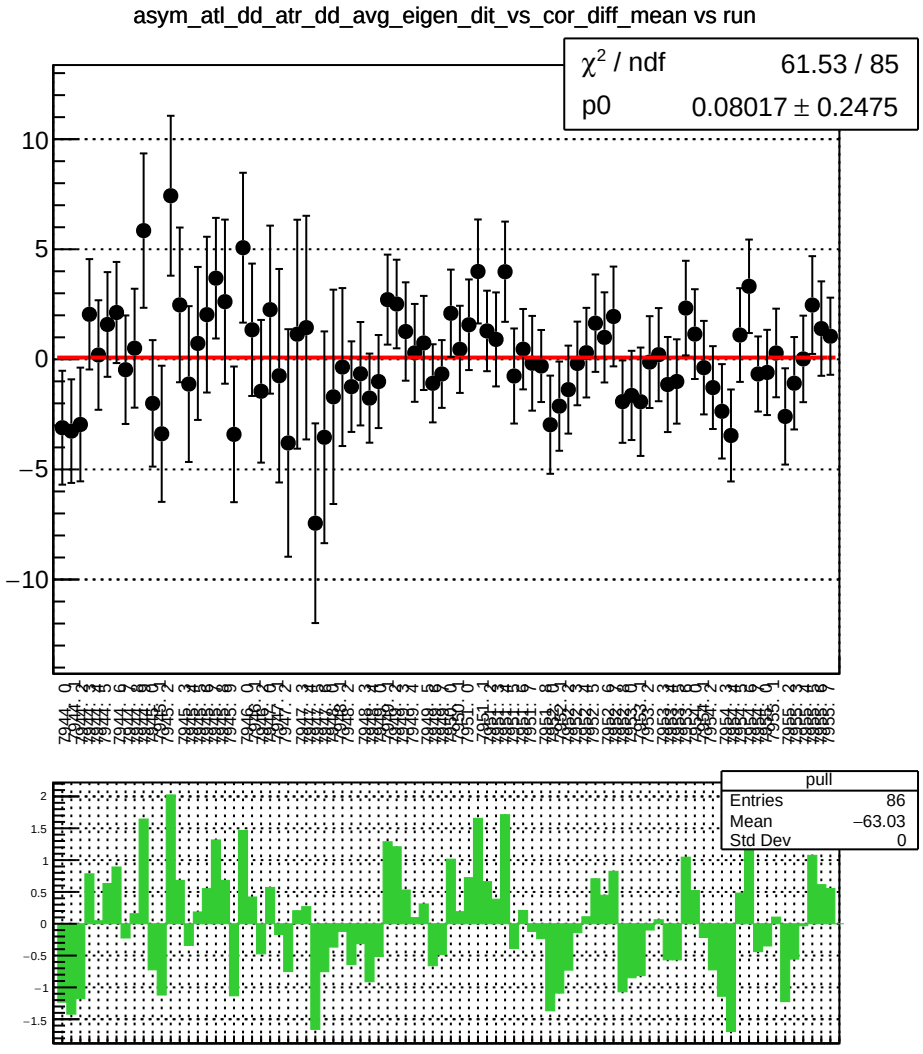

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

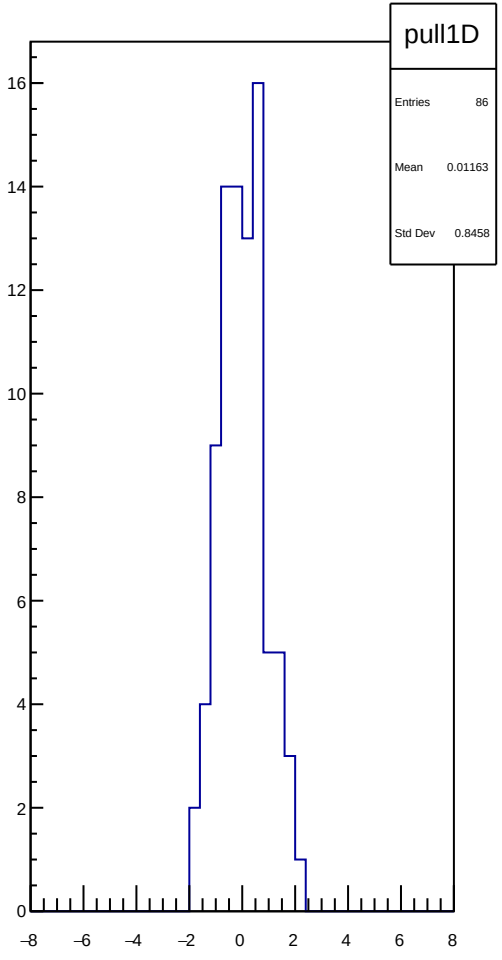

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

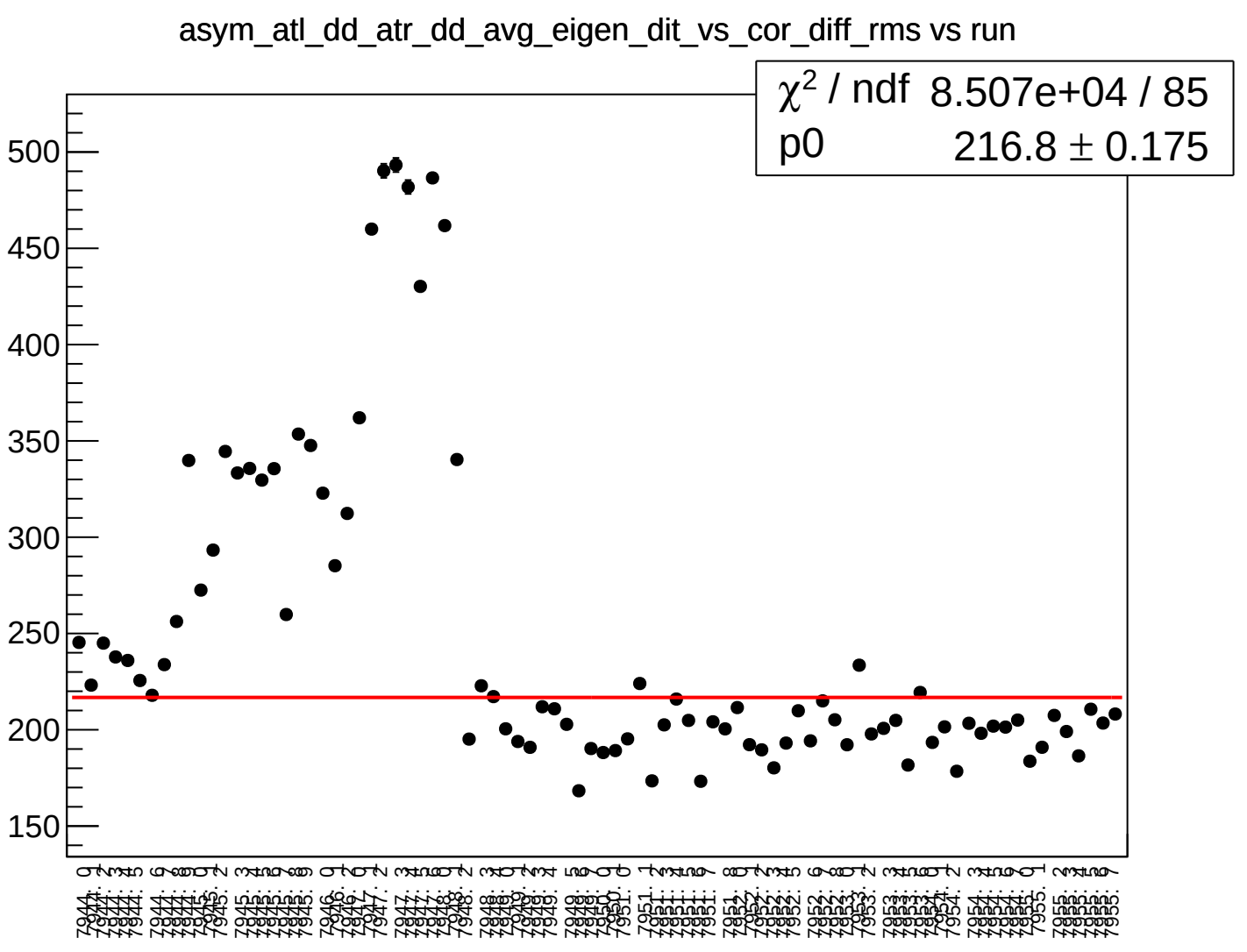

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.49 / 85
p0 2.118e−06 ± 1.055e−05
pull
Entries 86
Mean 88.76
Std Dev 0

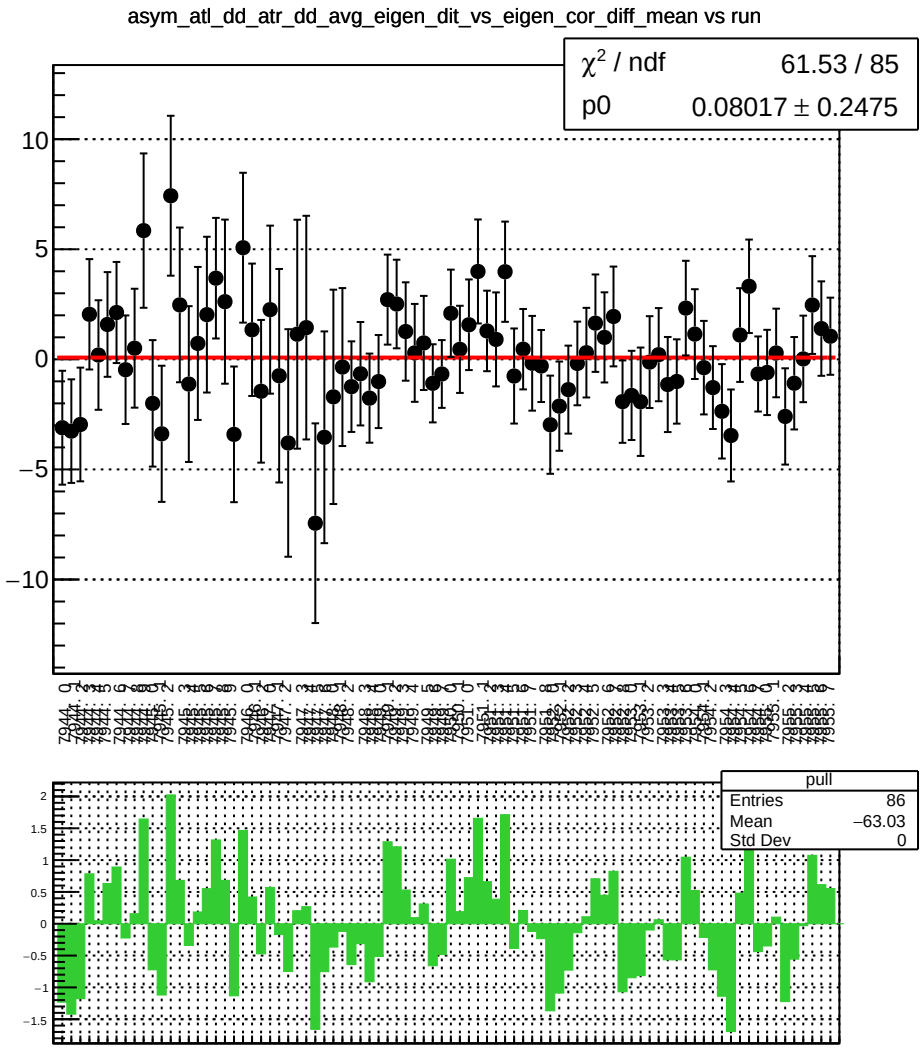

pull1D
Entries 86
Mean −0.003217
Std Dev 1.043

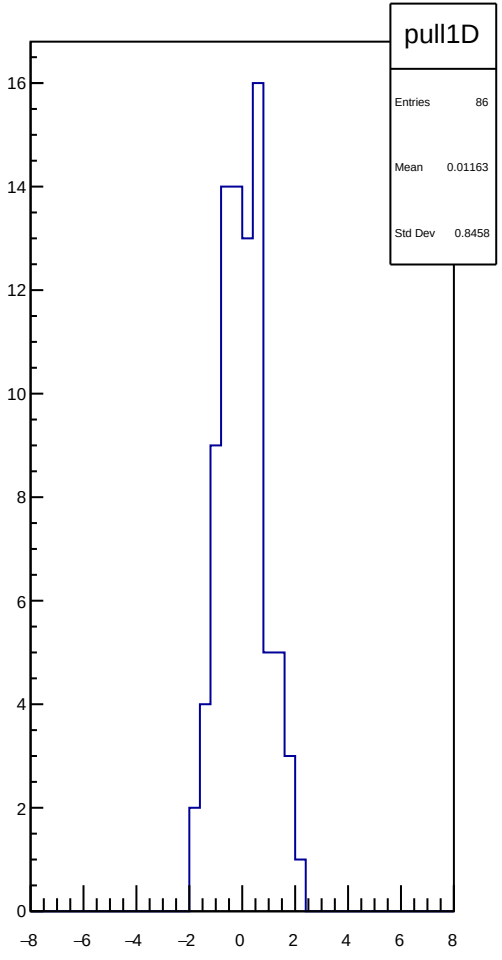

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1098 / 85
p0 0.009492 ± 7.462e−06
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088

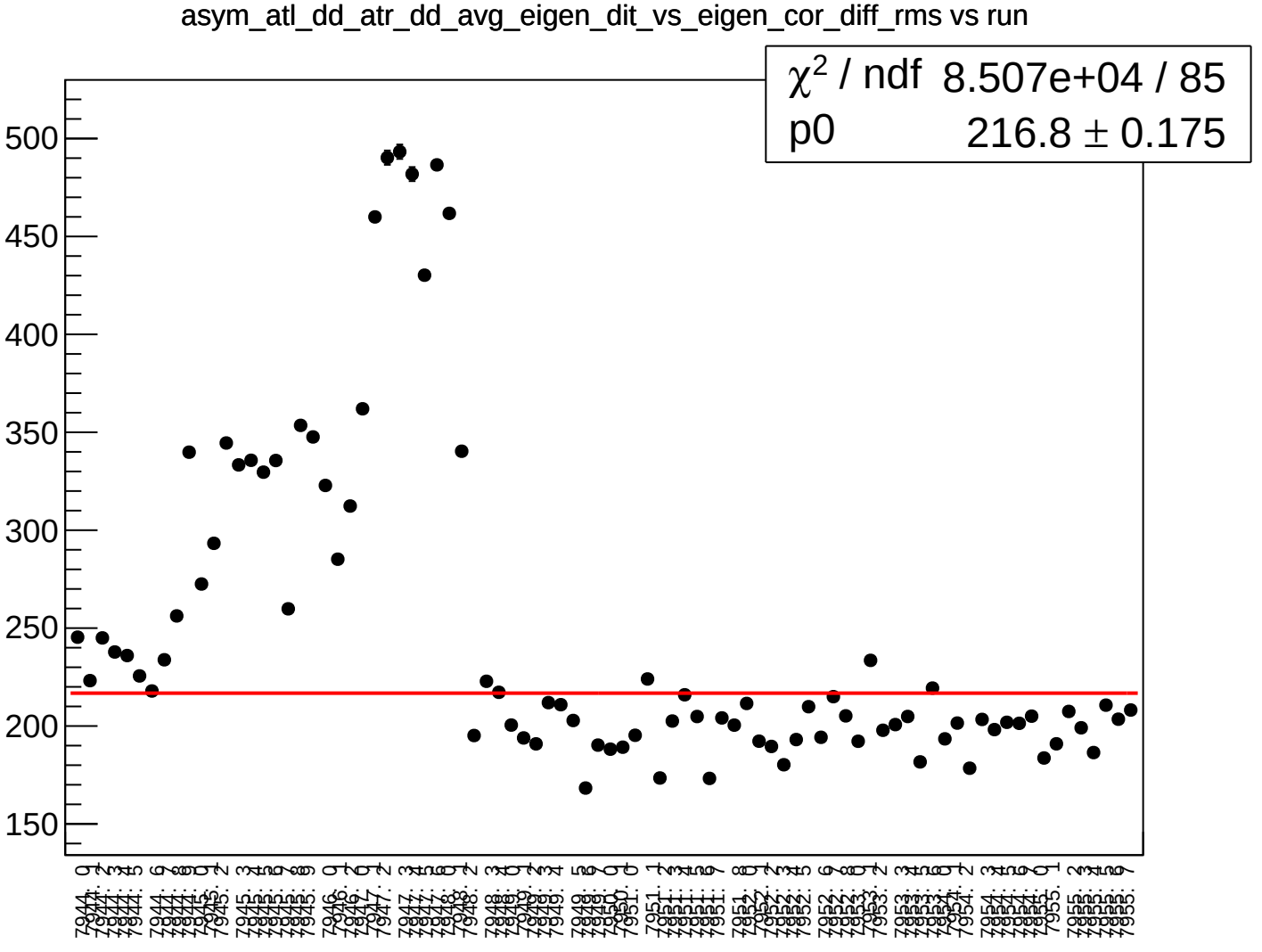

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08017 ± 0.2475
pull
Entries 86
Mean −63.03
Std Dev 0

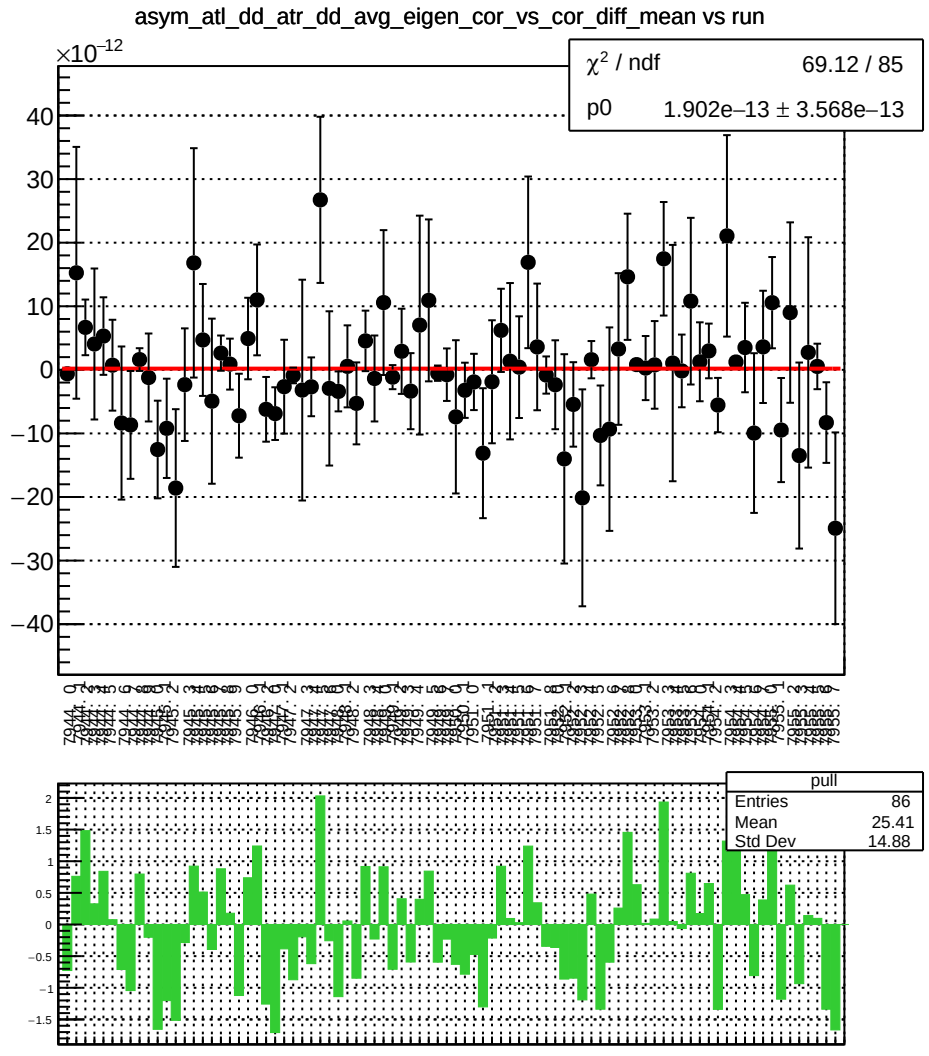

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

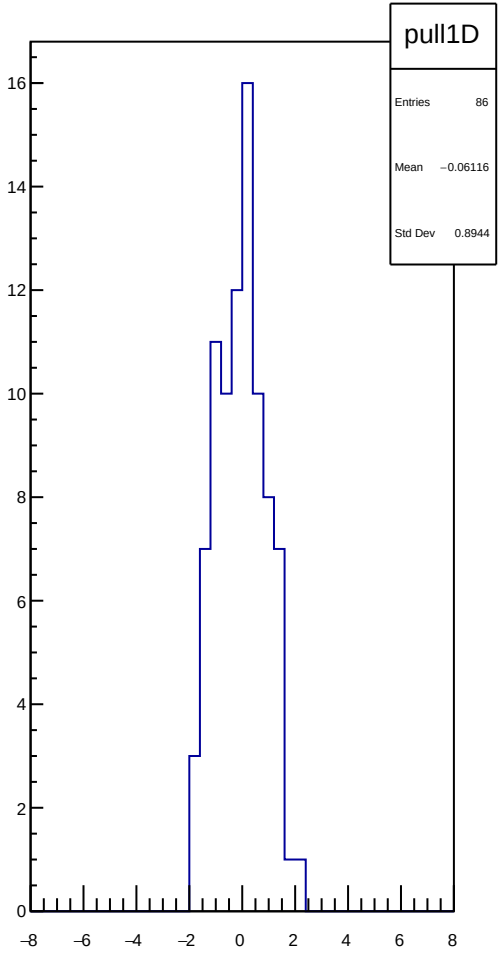

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

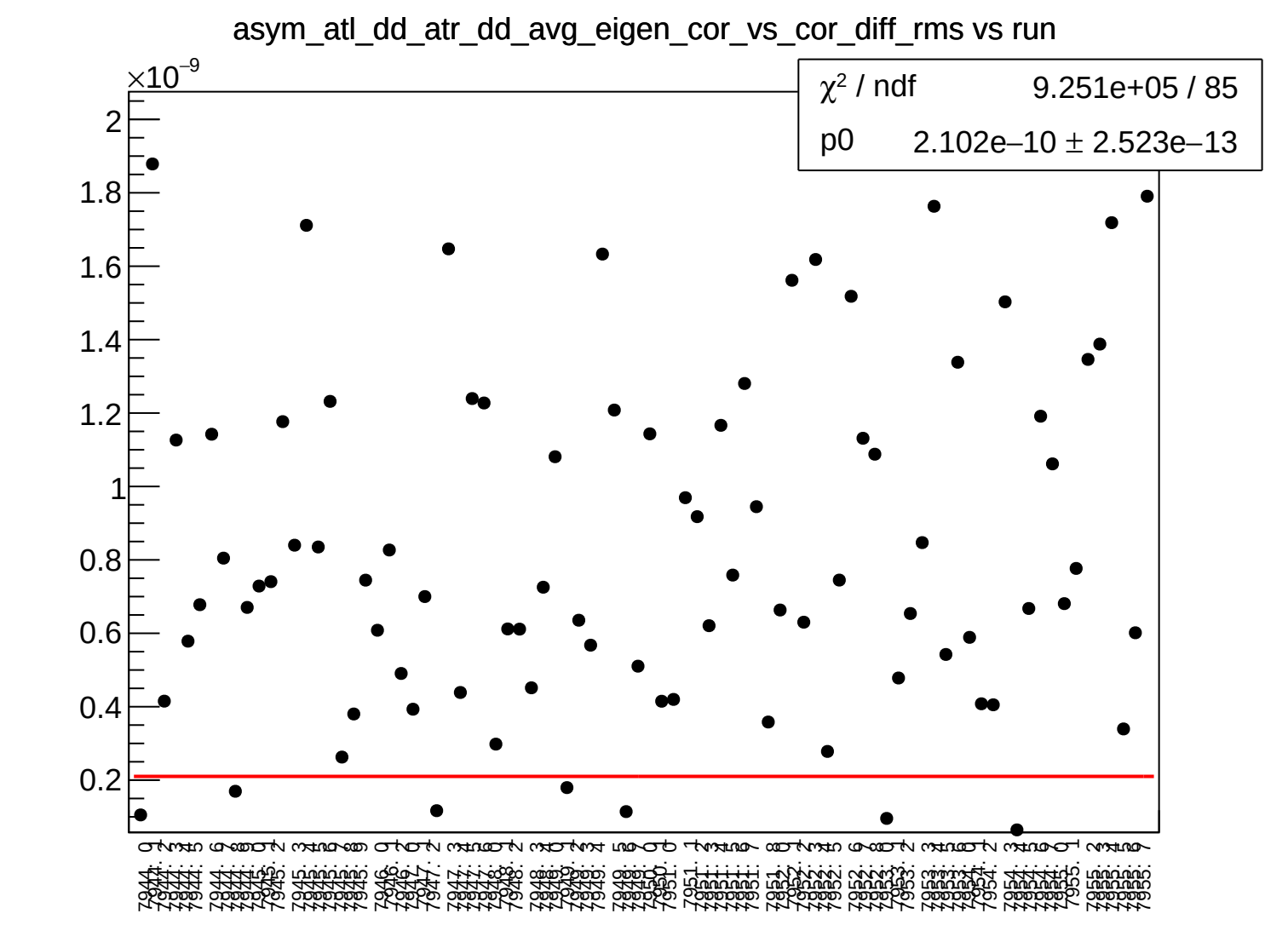

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08017 ± 0.2475
pull
Entries 86
Mean −63.03
Std Dev 0

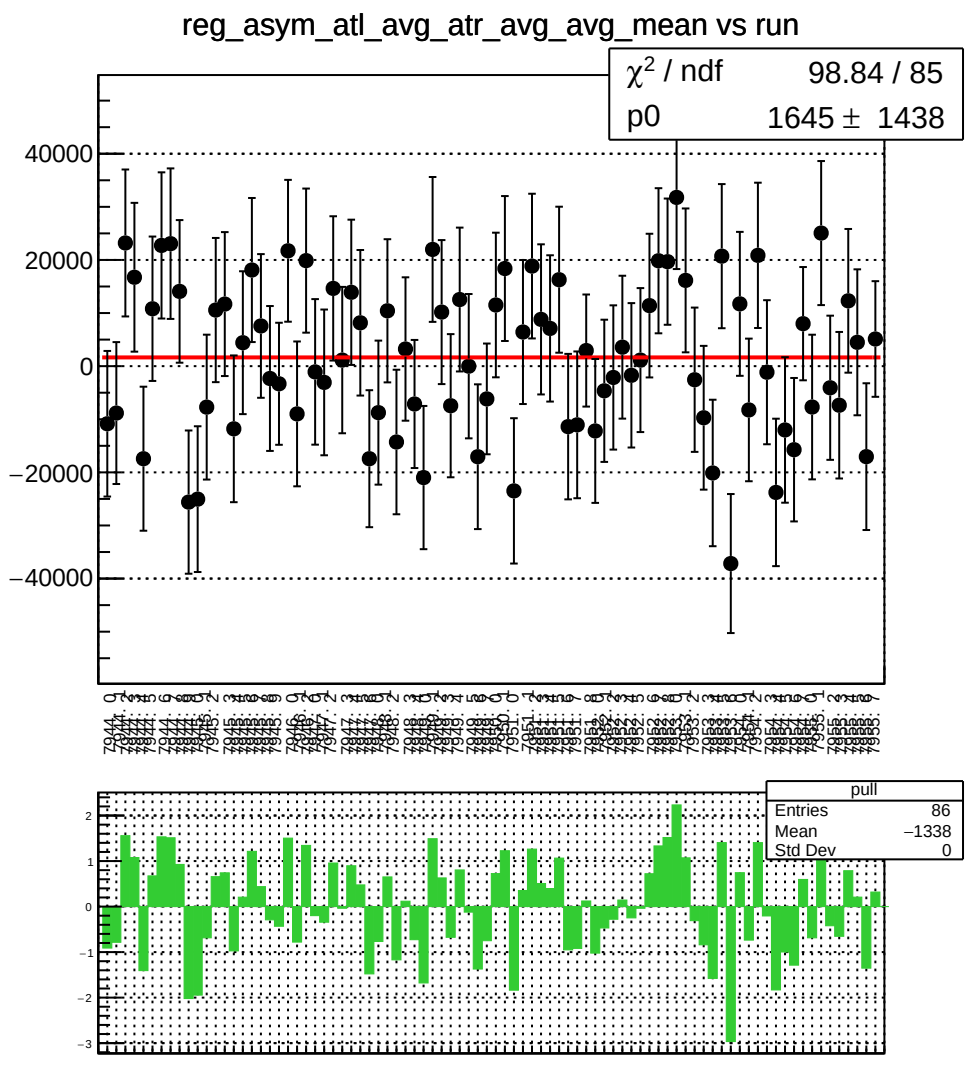

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

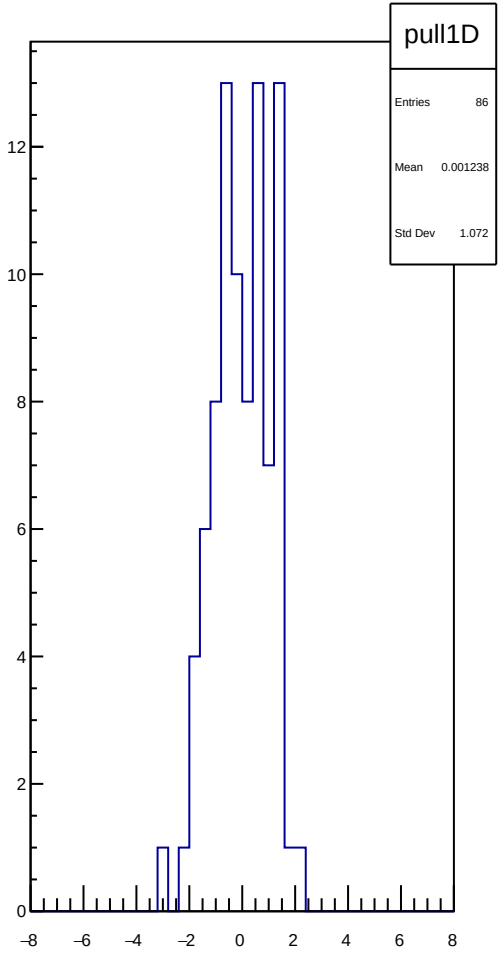

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

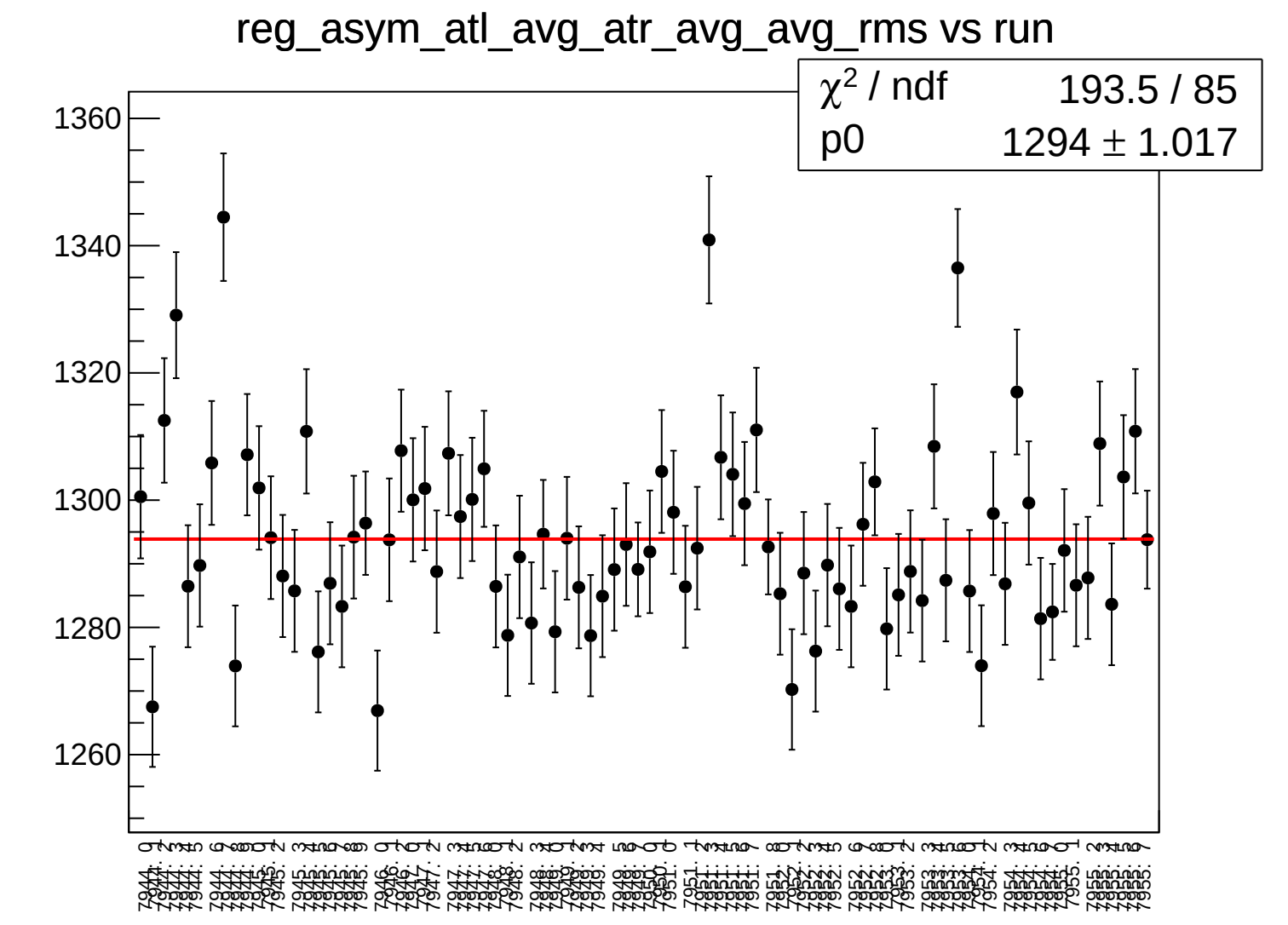

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.12 / 85
p0 1.902e−13 ± 3.568e−13
pull
Entries 86
Mean 25.41
Std Dev 14.88

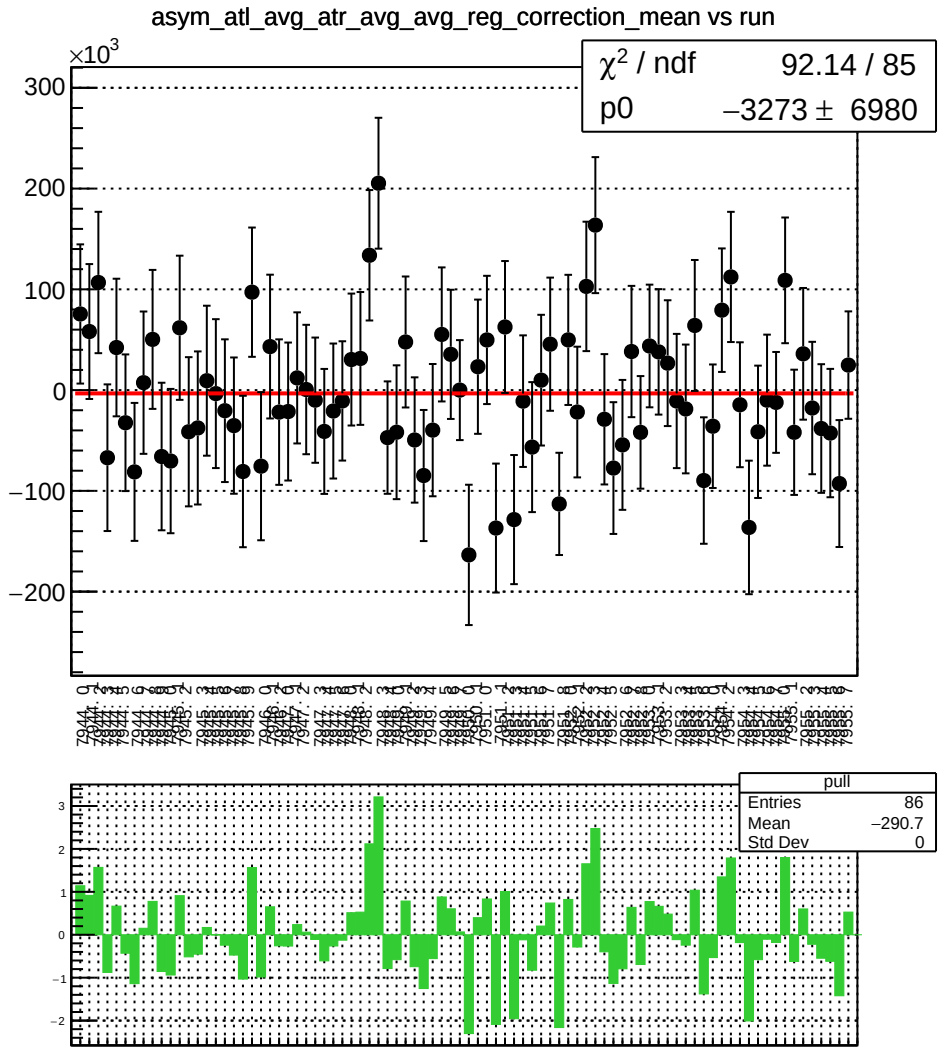

pull1D
Entries 86
Mean −0.06116
Std Dev 0.8944

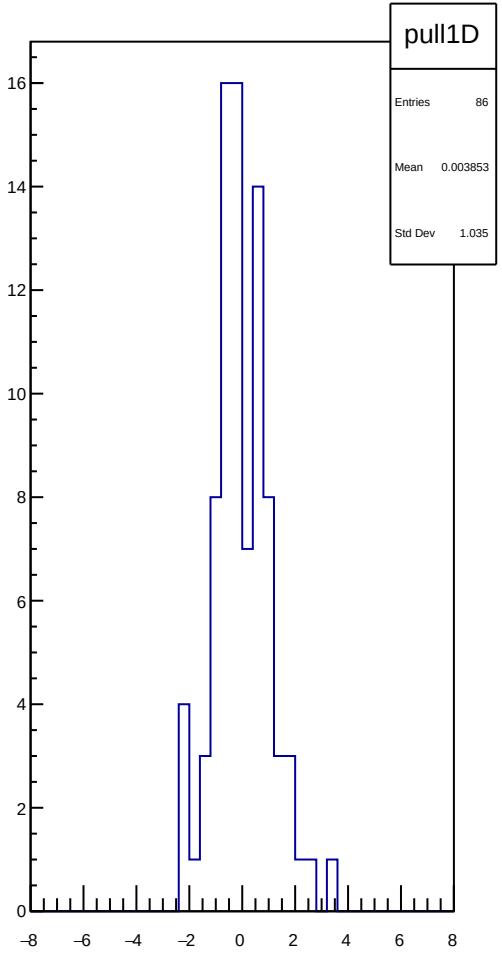

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.251e+05 / 85
p0 2.102e−10 ± 2.523e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

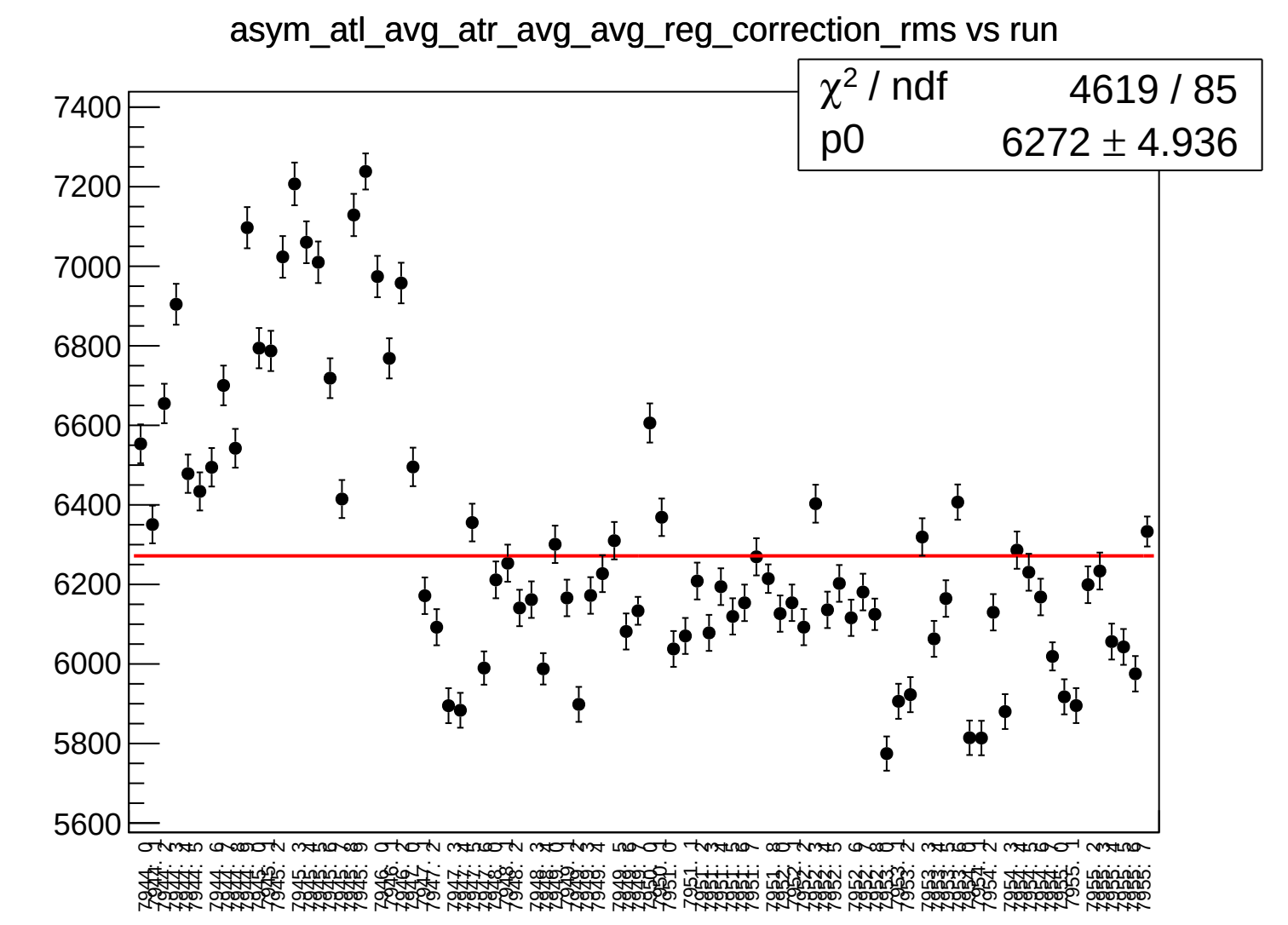

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.84 / 85
p0 1645 ± 1438
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1338
Std Dev 0
2
1
0
−1
−2
−3

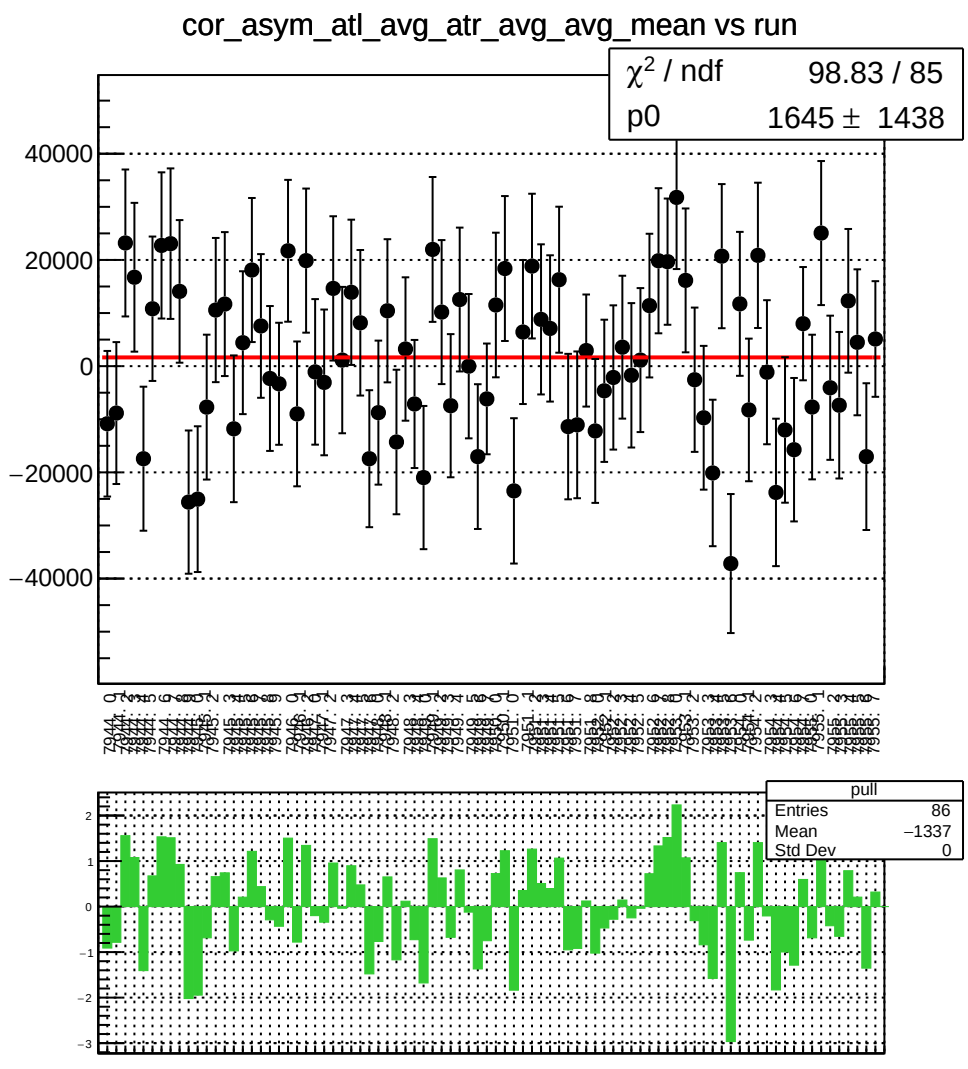

pull1D
Entries 86
Mean 0.001238
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

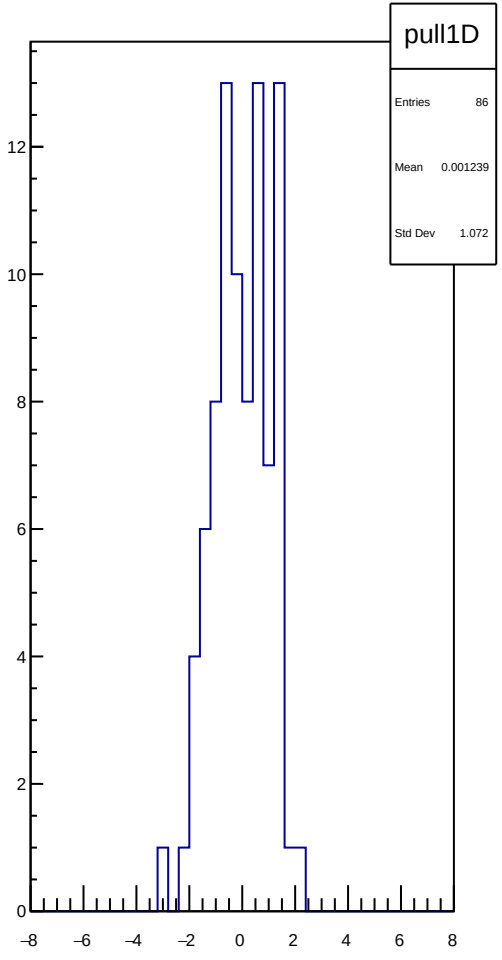

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 193.5 / 85
p0 1294 ± 1.017
1360
1340
1320
1300
1280
1260


asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.14 / 85
p0 −3273 ± 6980
300
200
100
0
−100
−200
pull
Entries 86
Mean −290.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.003853
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4619 / 85
p0 6272 ± 4.936
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600


cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.83 / 85
p0 1645 ± 1438
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1337
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.001239
Std Dev 1.072
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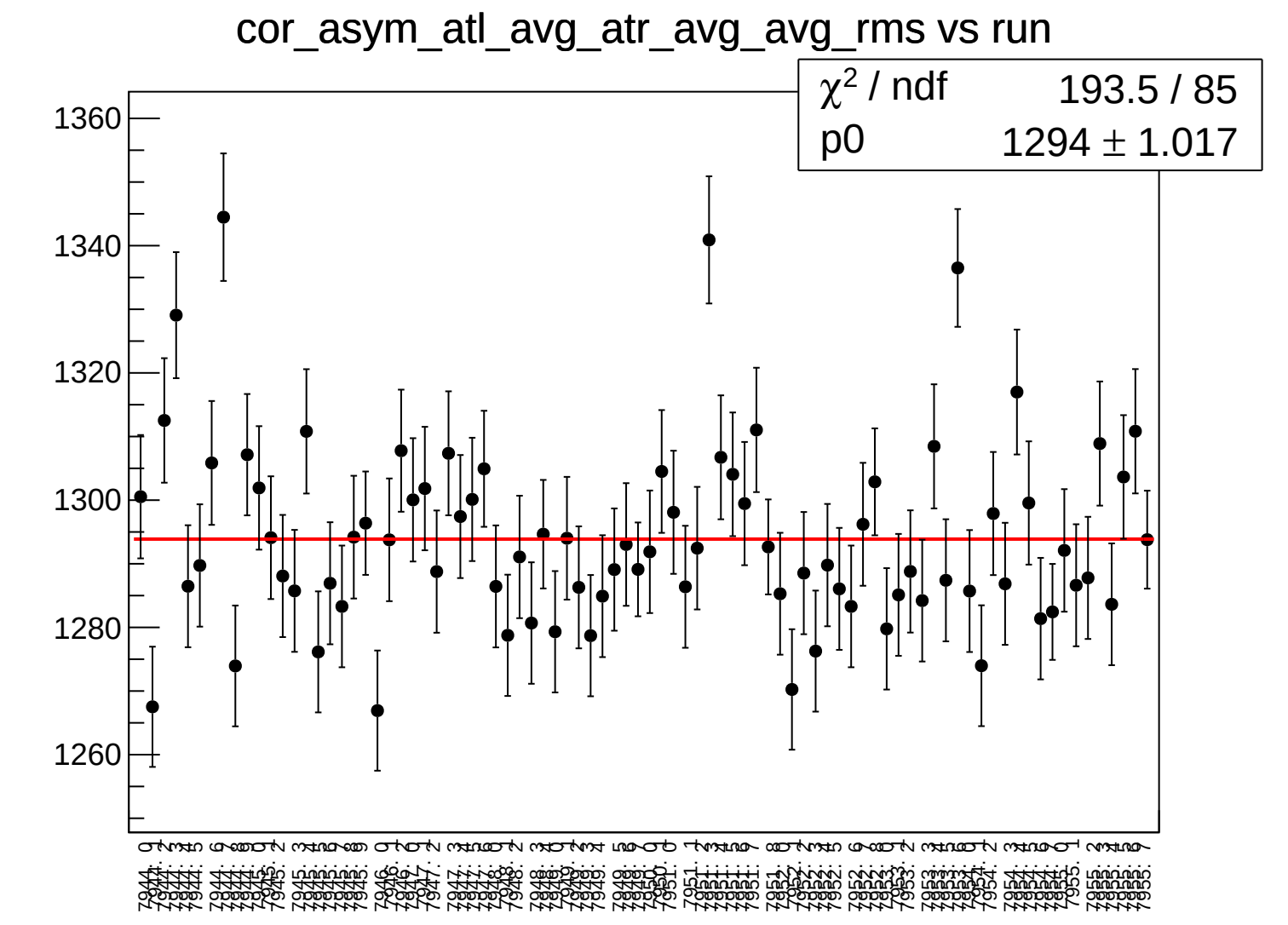
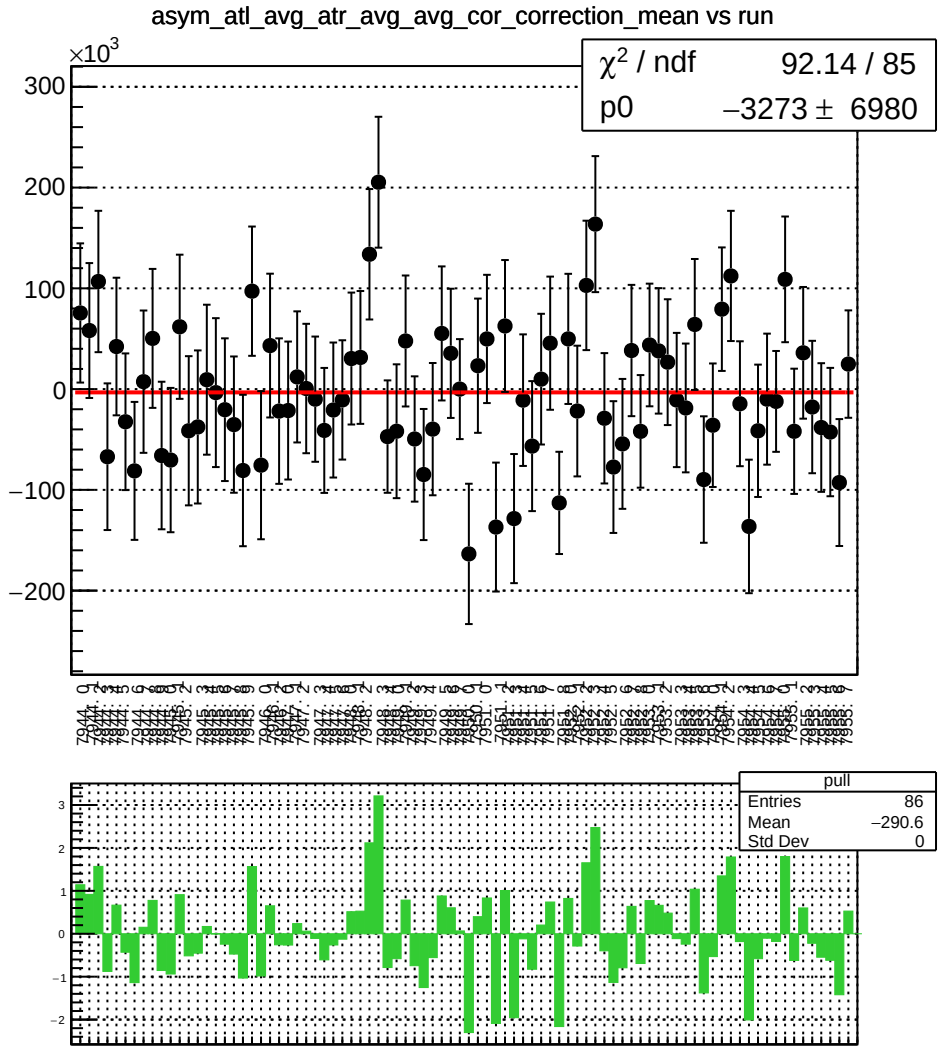
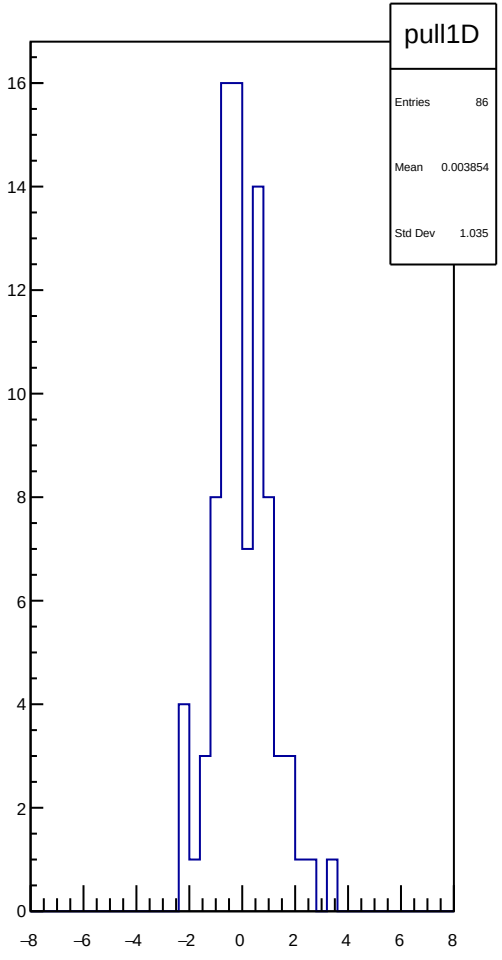
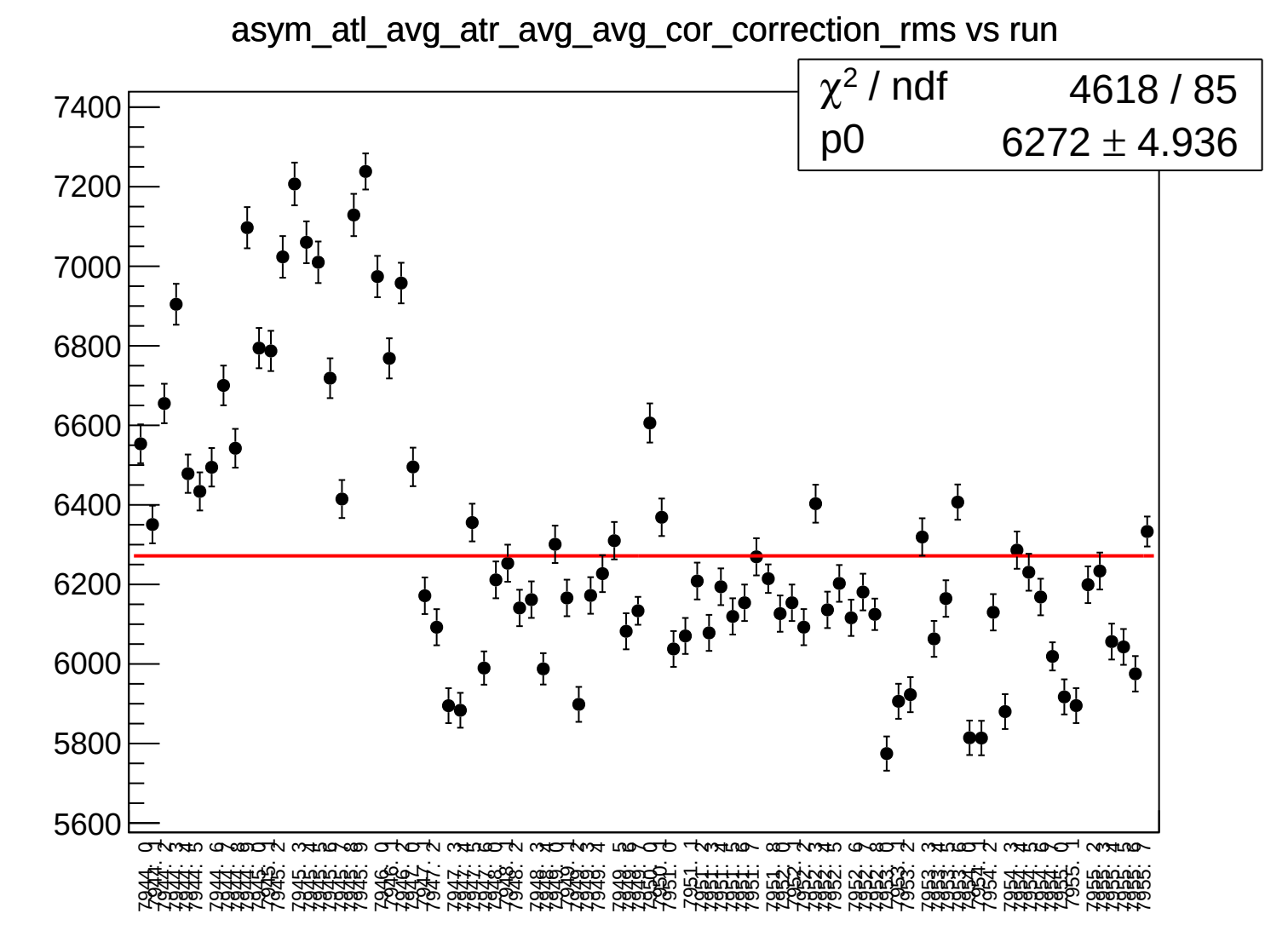
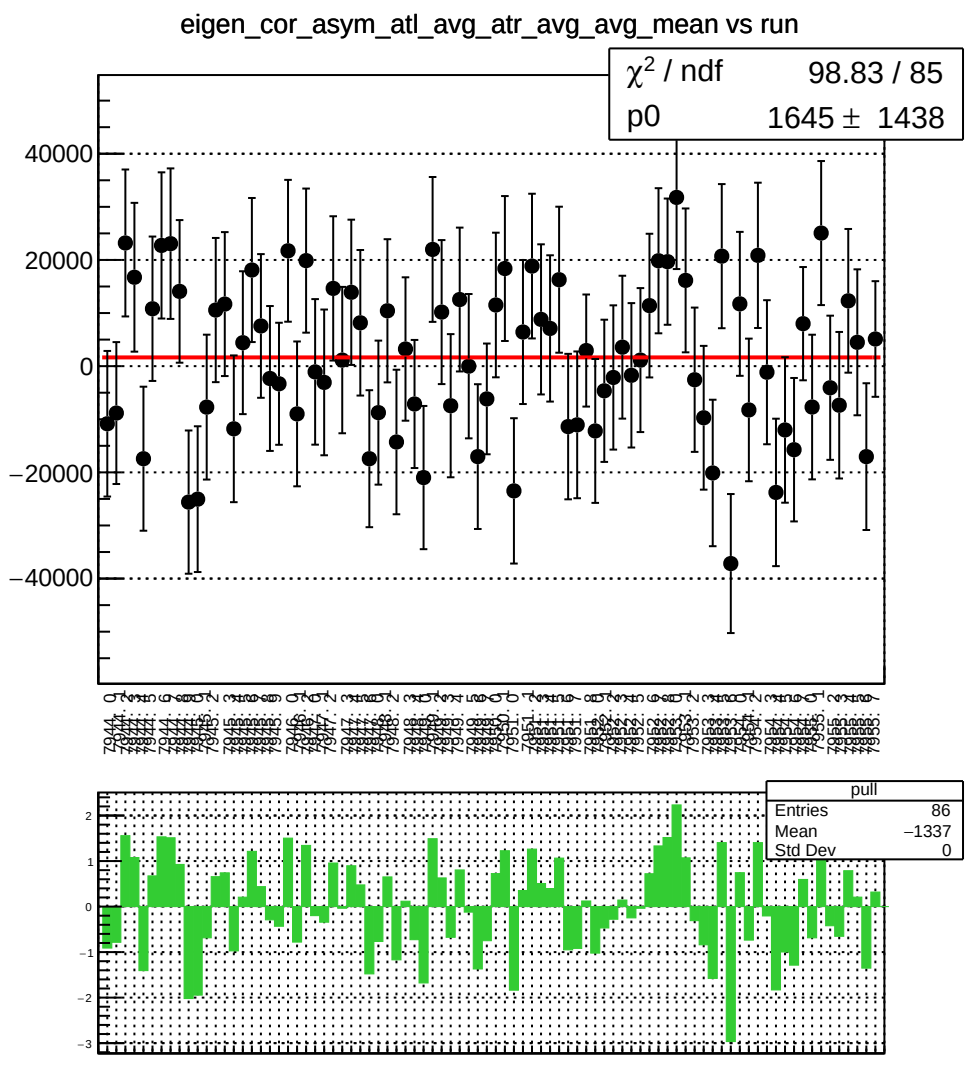
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

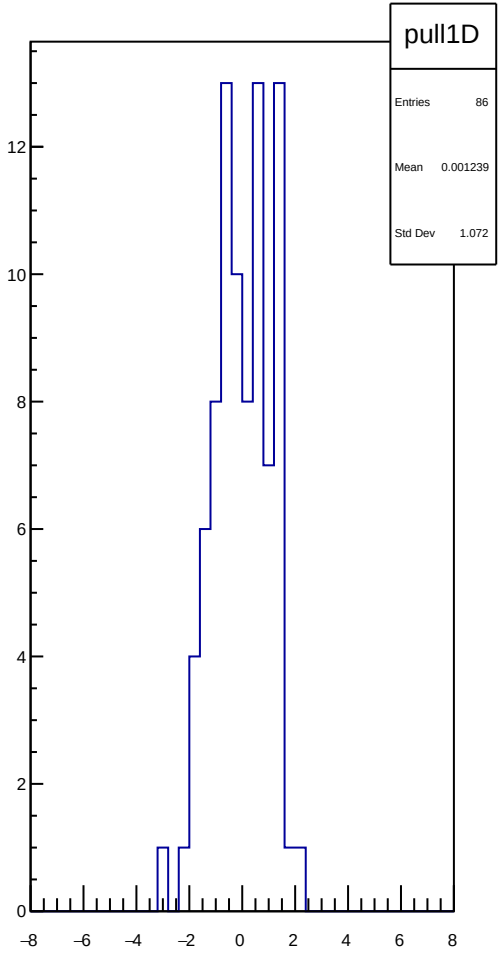

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 193.5 / 85
p0 1294 ± 1.017
1360
1340
1320
1300
1280
1260

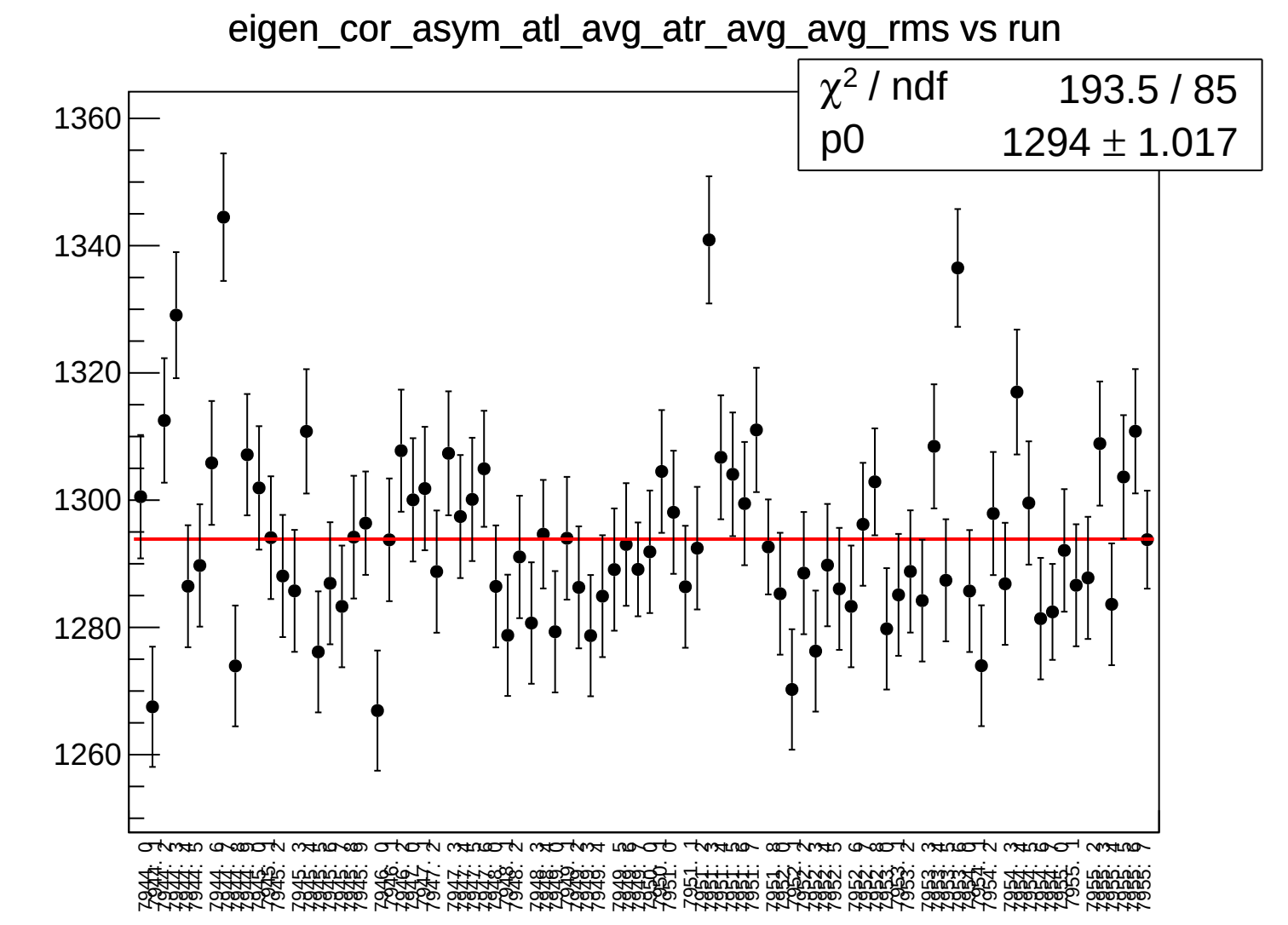

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.14 / 85
p0 −3273 ± 6980
pull
Entries 86
Mean −290.6
Std Dev 0

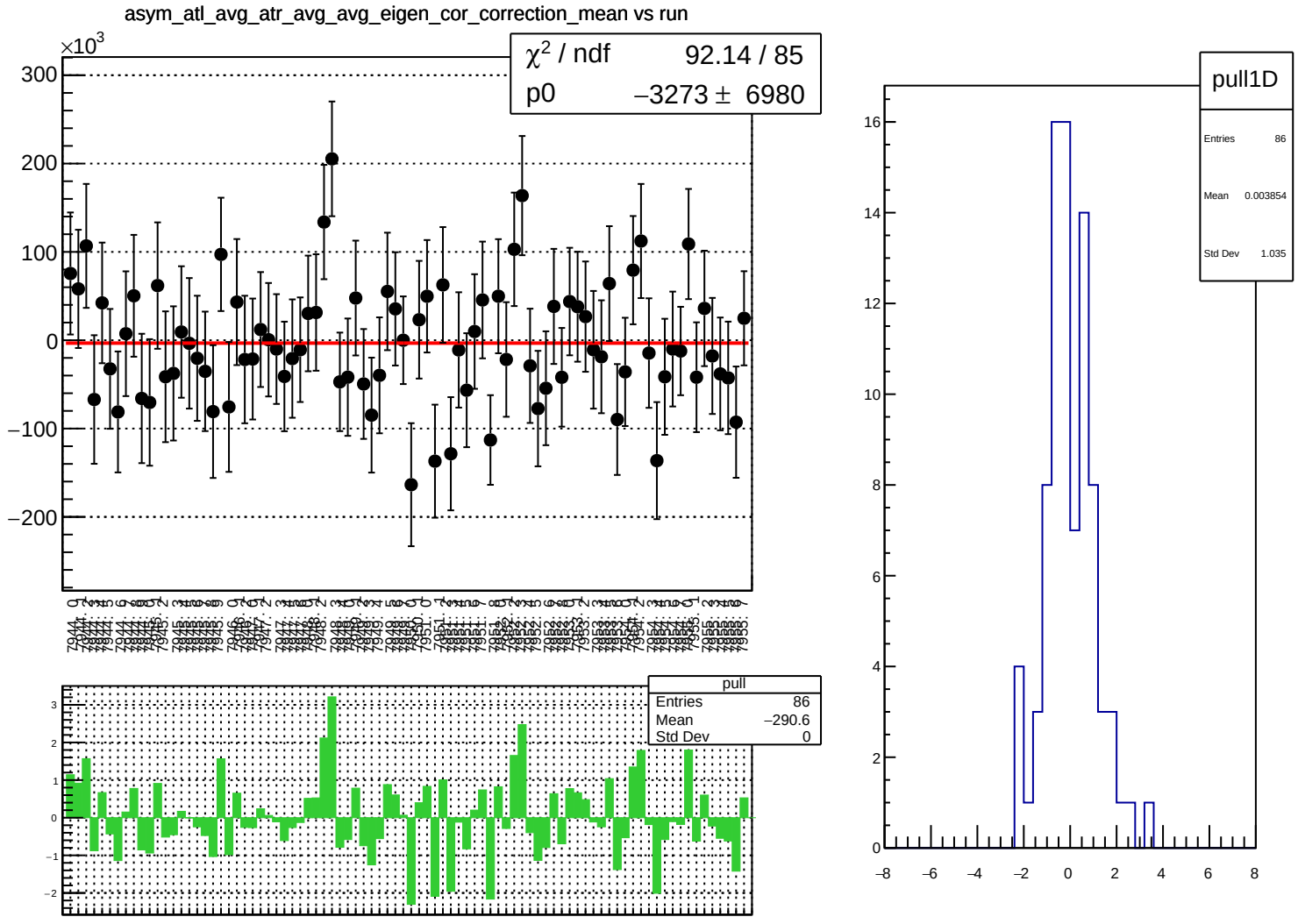

pull1D
Entries 86
Mean 0.003854
Std Dev 1.035

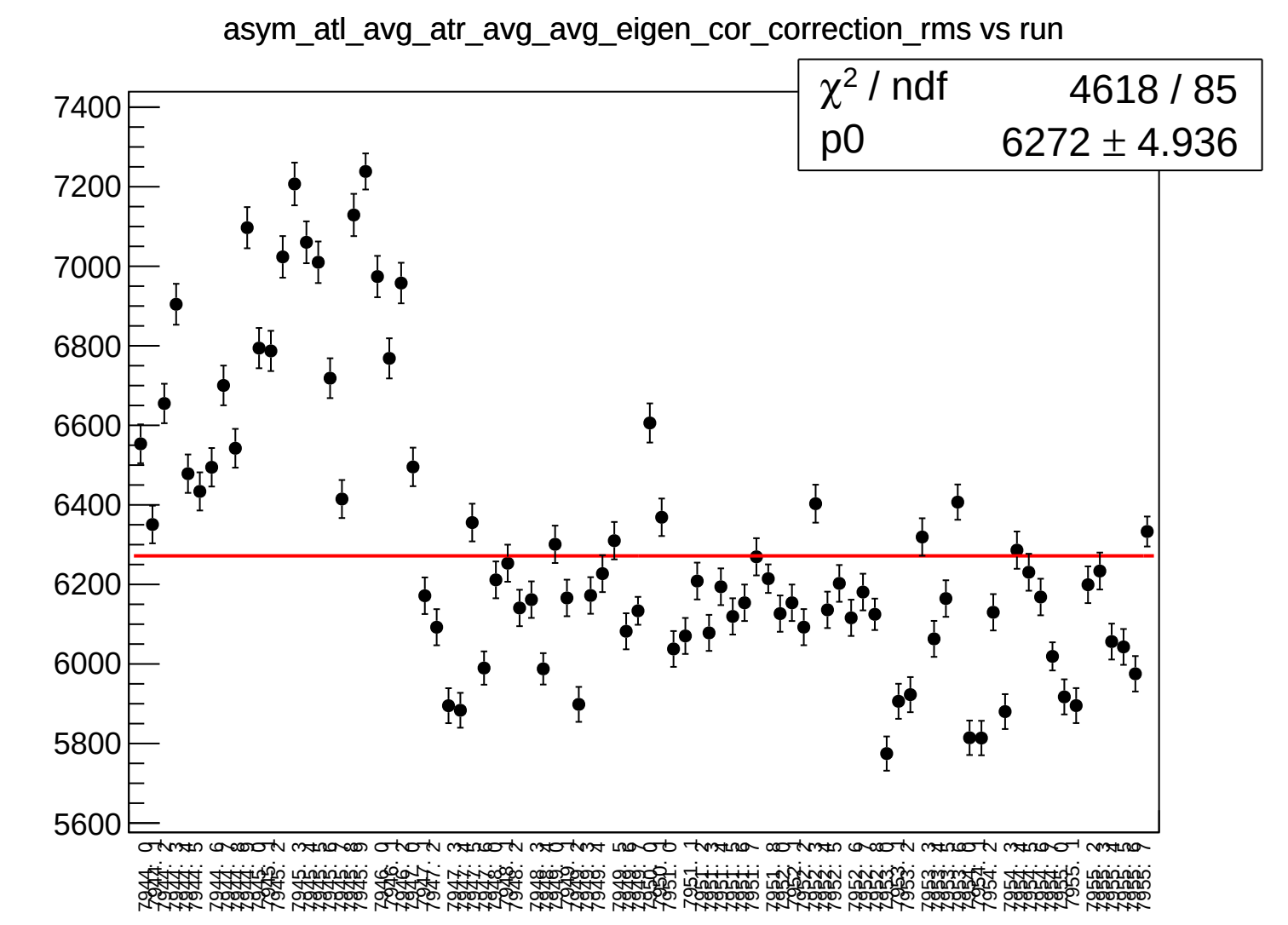

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 4618 / 85
p0 6272 ± 4.936
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

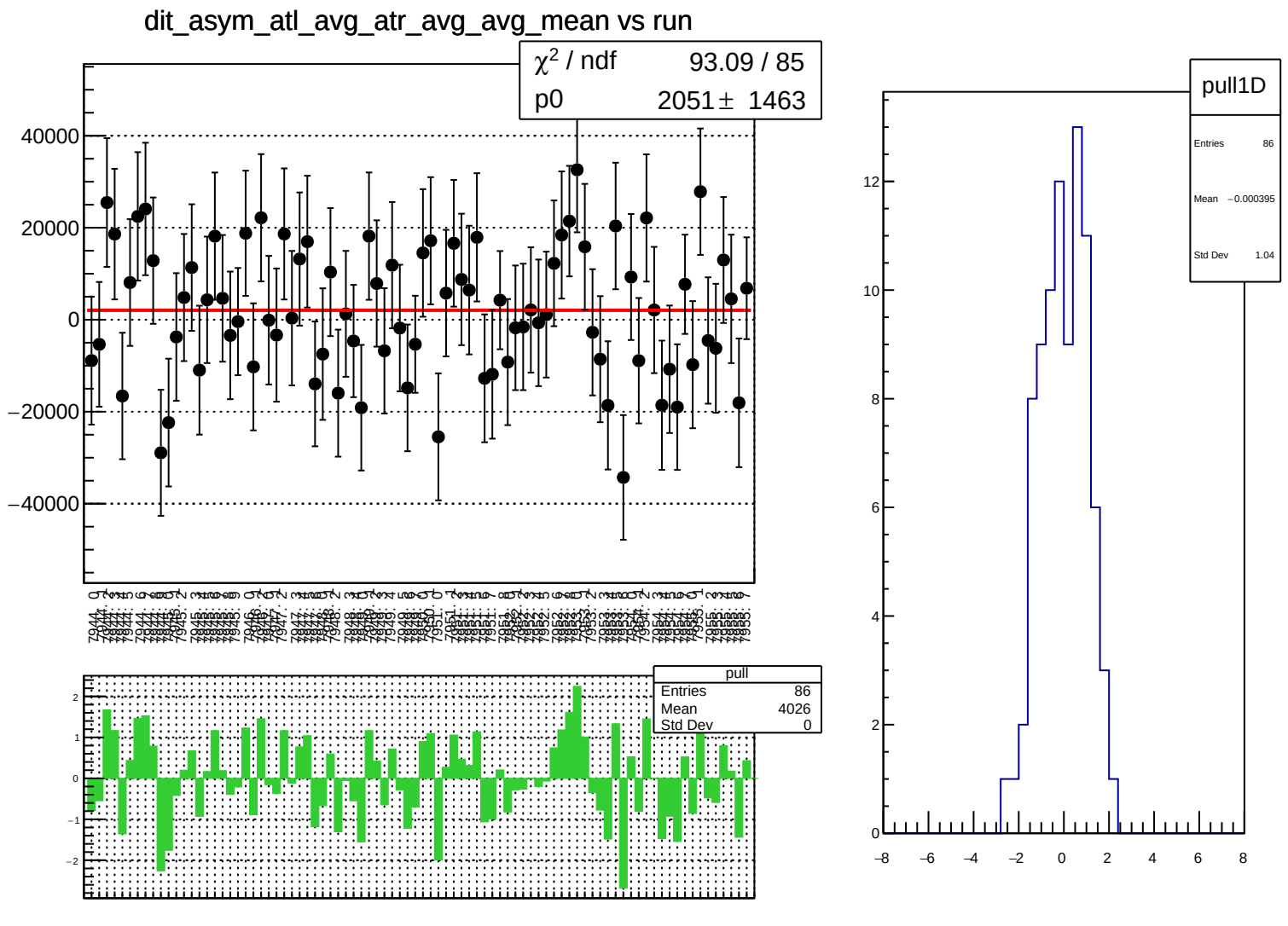

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.83 / 85
p0 1645 ± 1438
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1337
Std Dev 0
2
1
0
−1
−2
−3

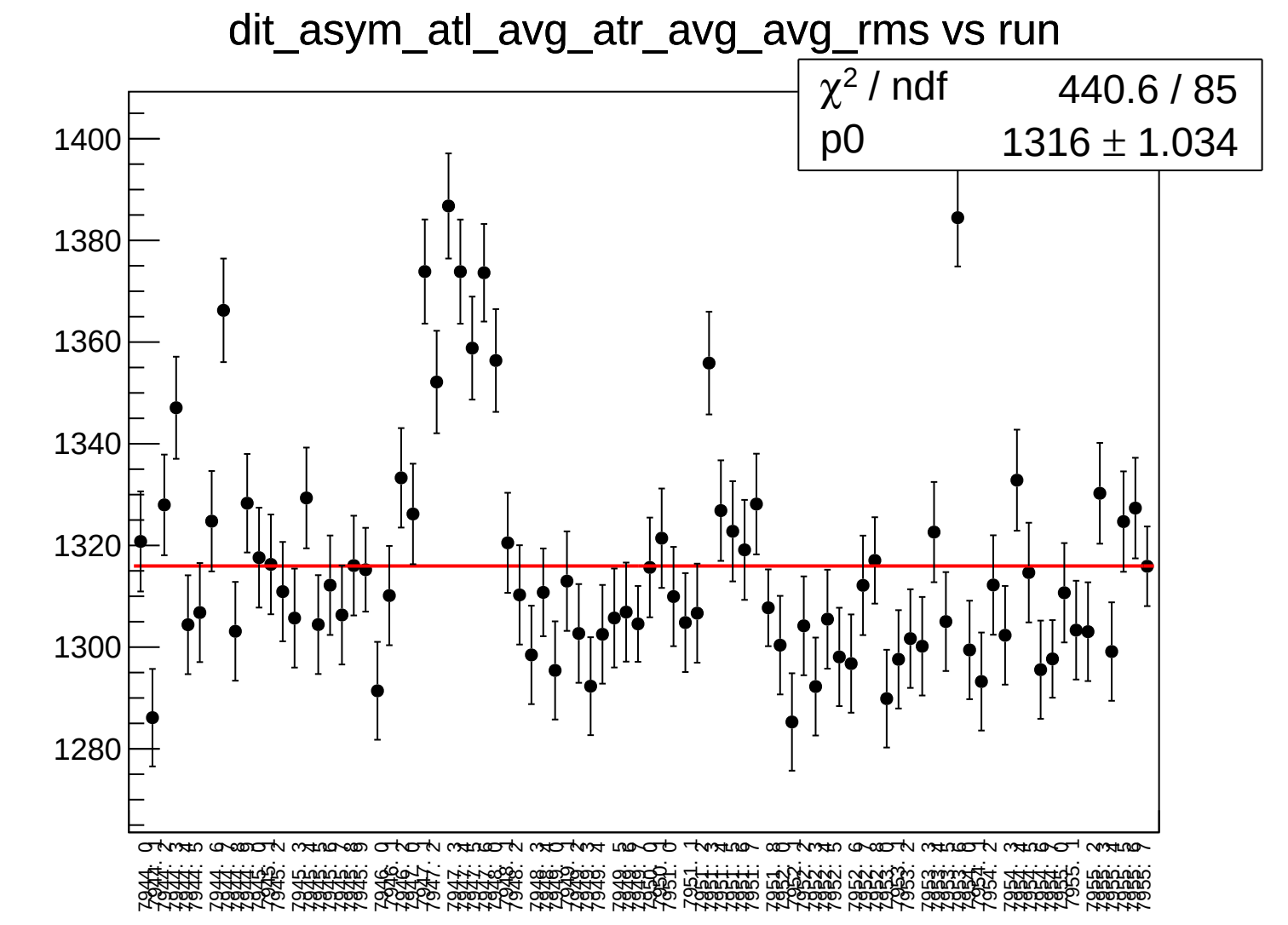

pull1D
Entries 86
Mean 0.001239
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

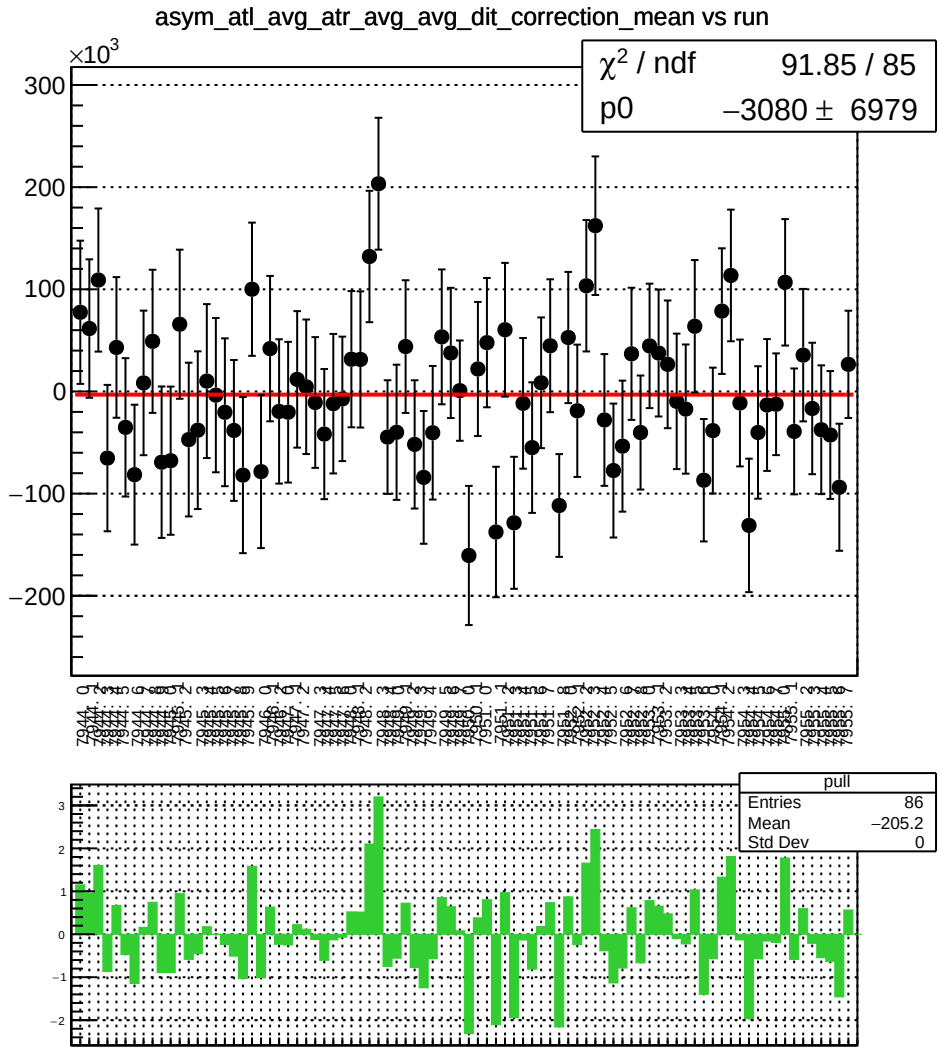

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 193.5 / 85
p0 1294 ± 1.017
1360
1340
1320
1300
1280
1260

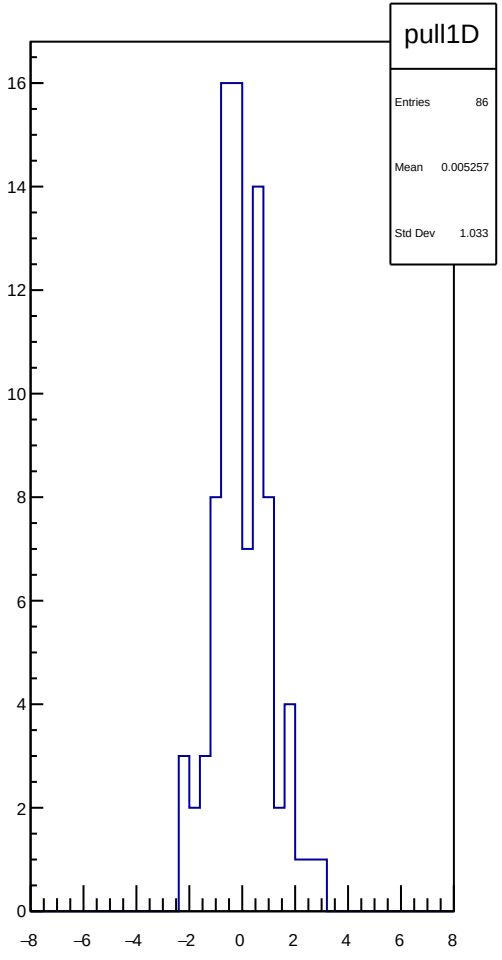

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.14 / 85
p0 −3273 ± 6980
pull
Entries 86
Mean −290.6
Std Dev 0
pull1D
Entries 86
Mean 0.003854
Std Dev 1.035

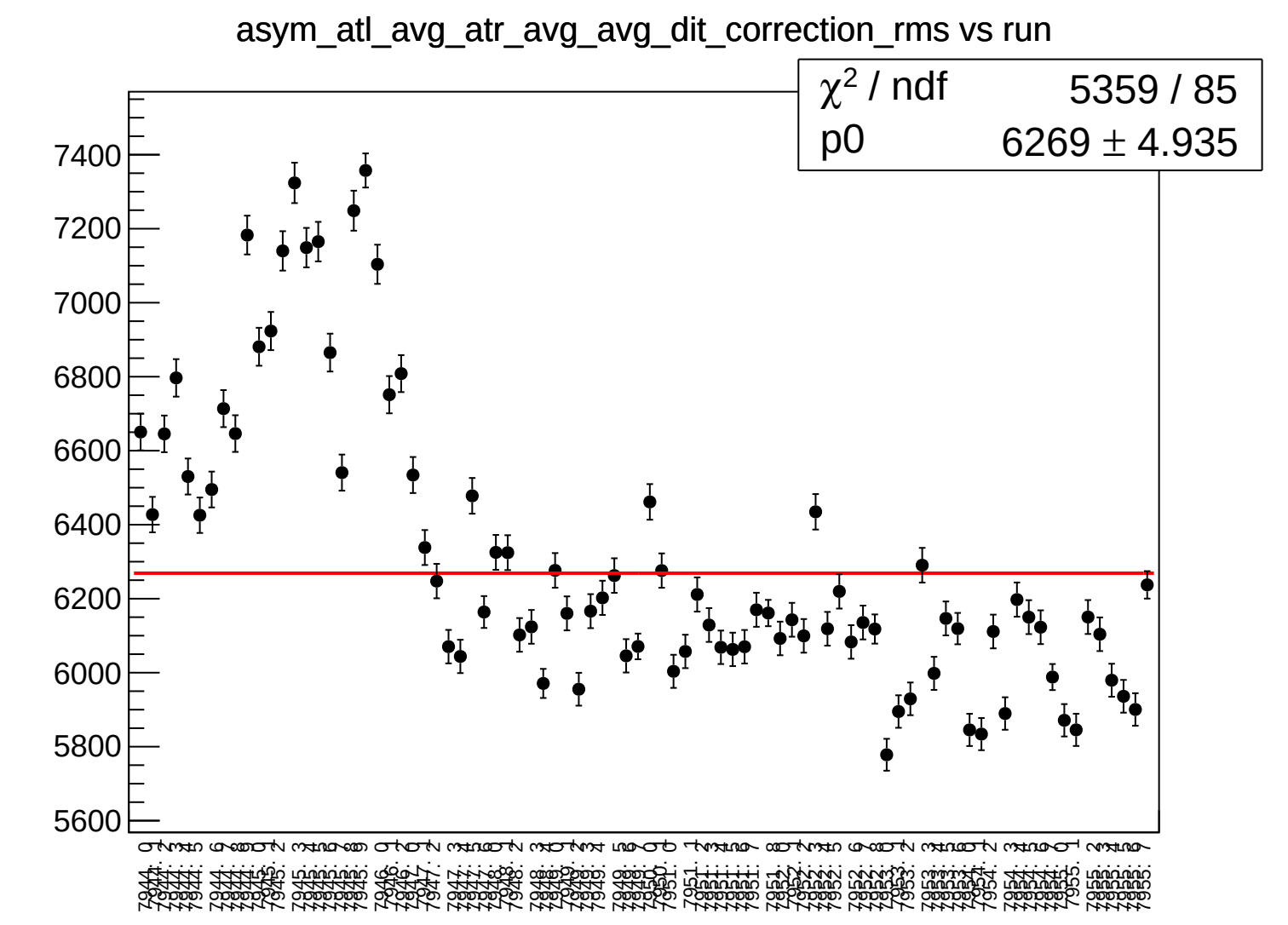

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4618 / 85
p0 6272 ± 4.936
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

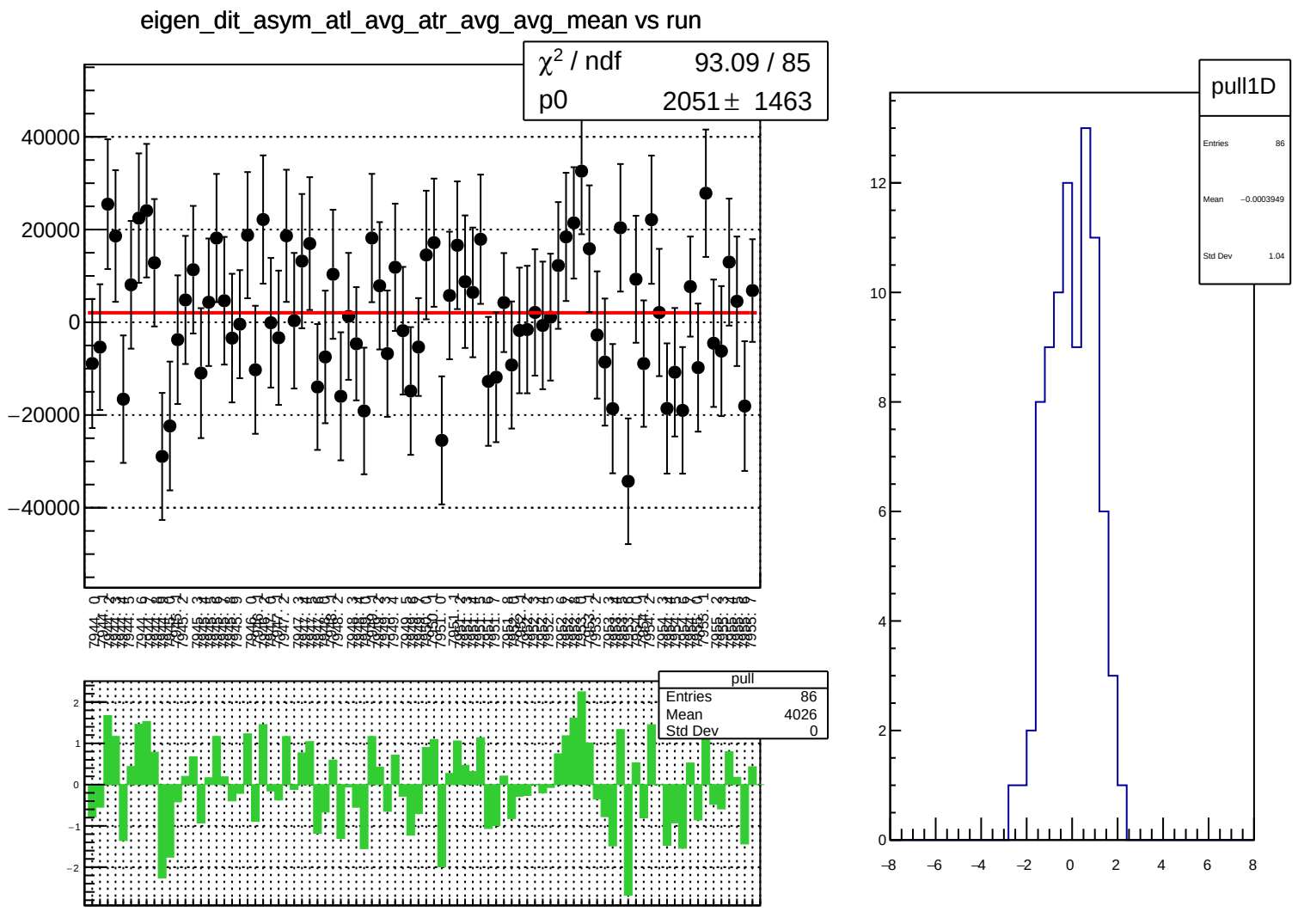

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.09 / 85
p0 2051 ± 1463
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 4026
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.000395
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

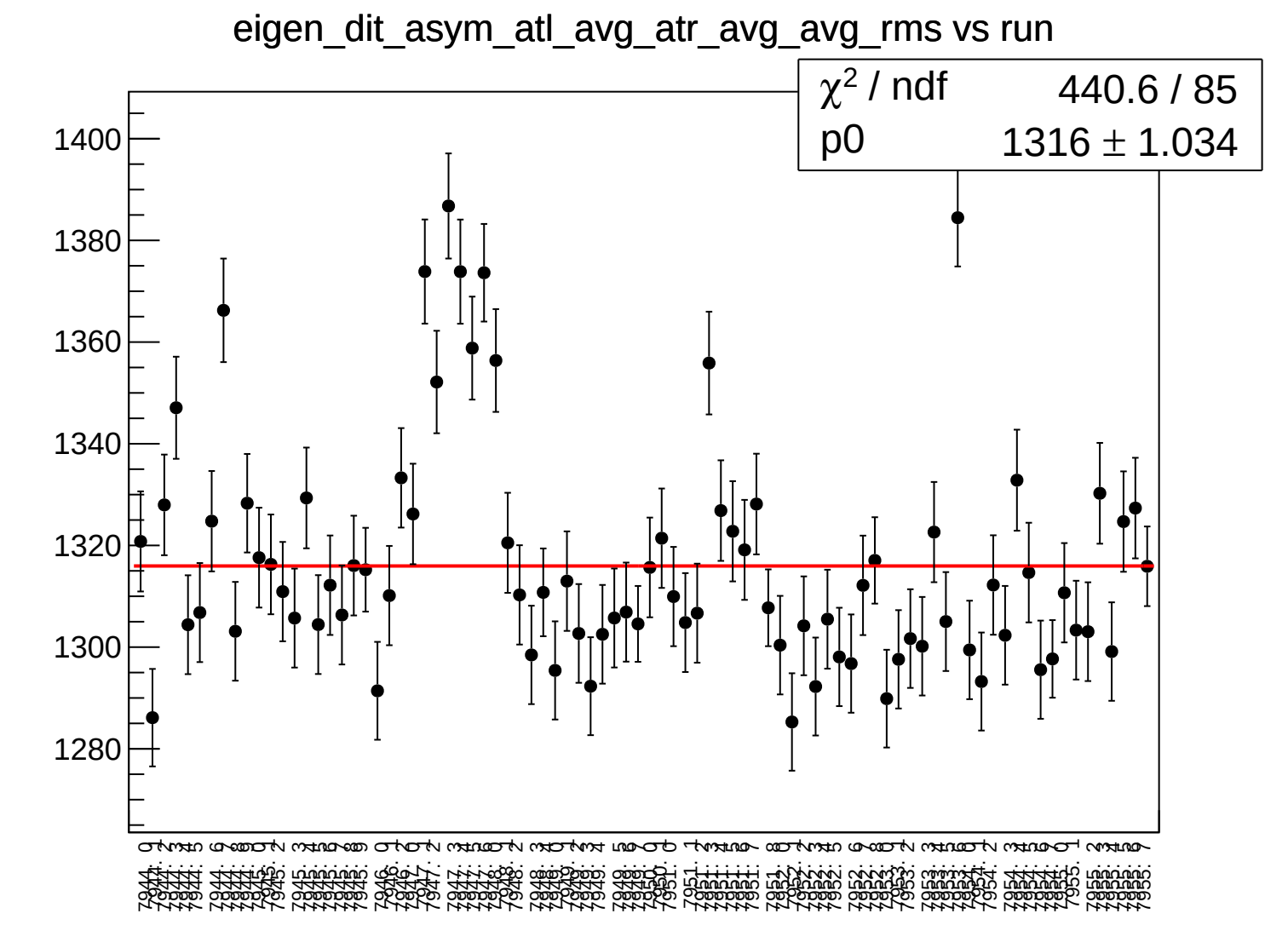

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 440.6 / 85
p0 1316 ± 1.034
1400
1380
1360
1340
1320
1300
1280

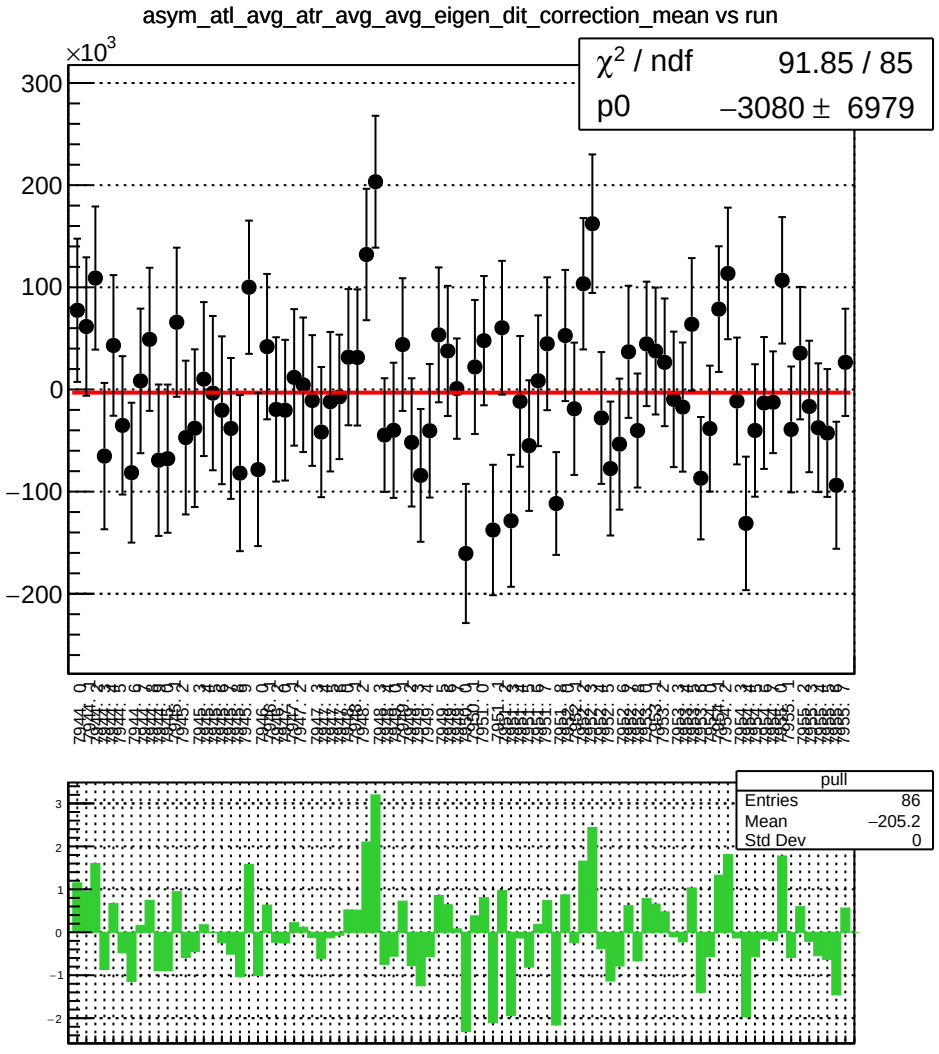

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.85 / 85
p0 −3080 ± 6979
pull
Entries 86
Mean −205.2
Std Dev 0

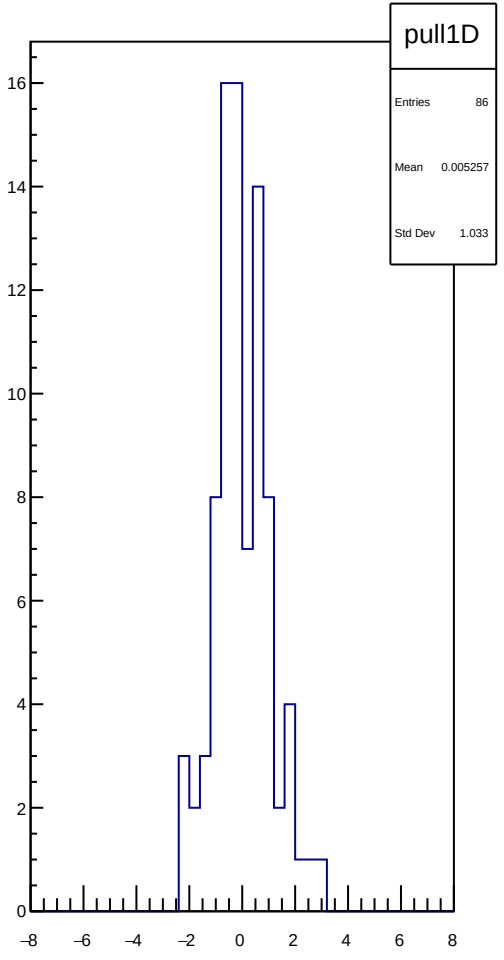

pull1D
Entries 86
Mean 0.005257
Std Dev 1.033

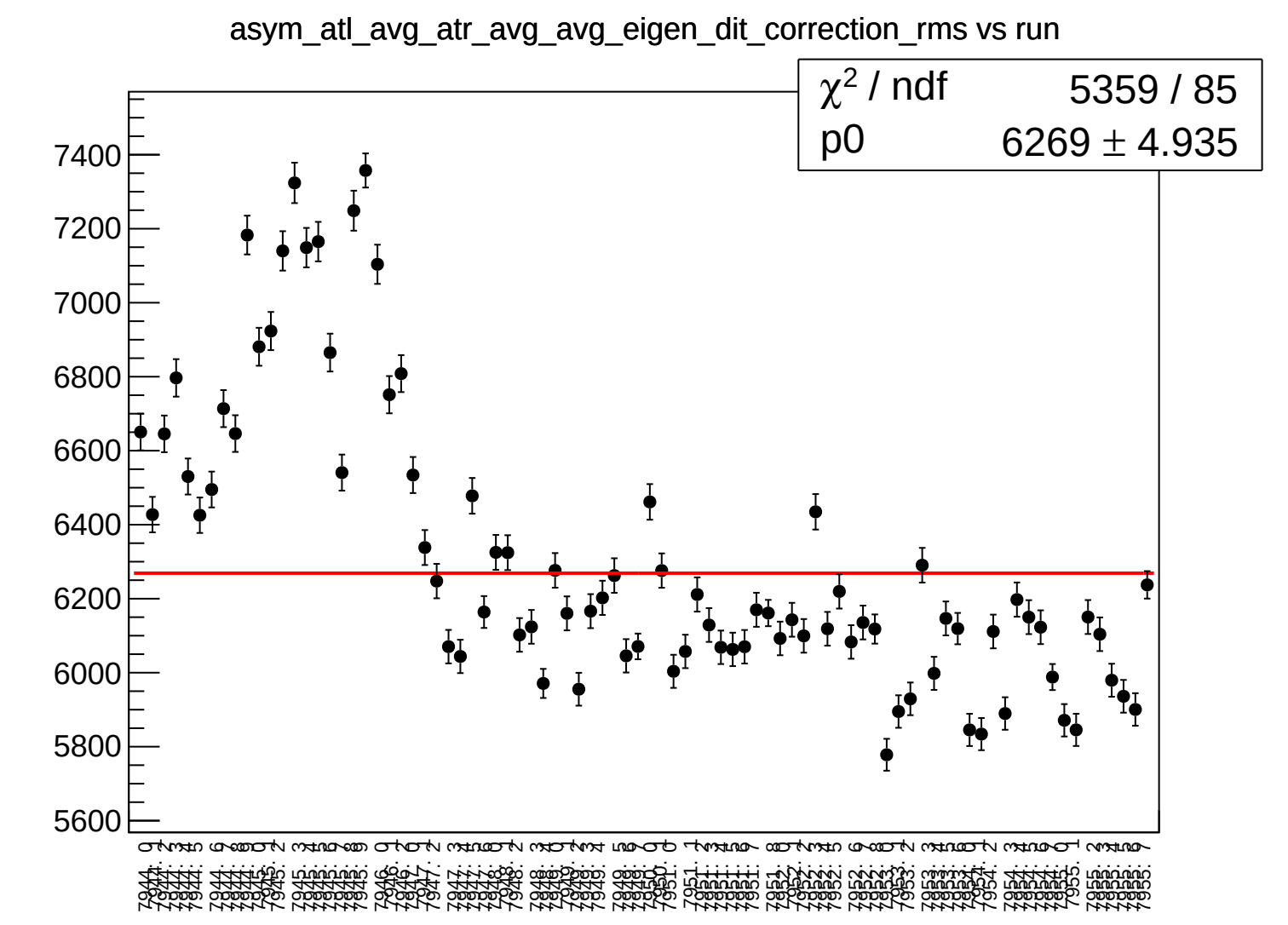

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 5359 / 85
p0 6269 ± 4.935
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

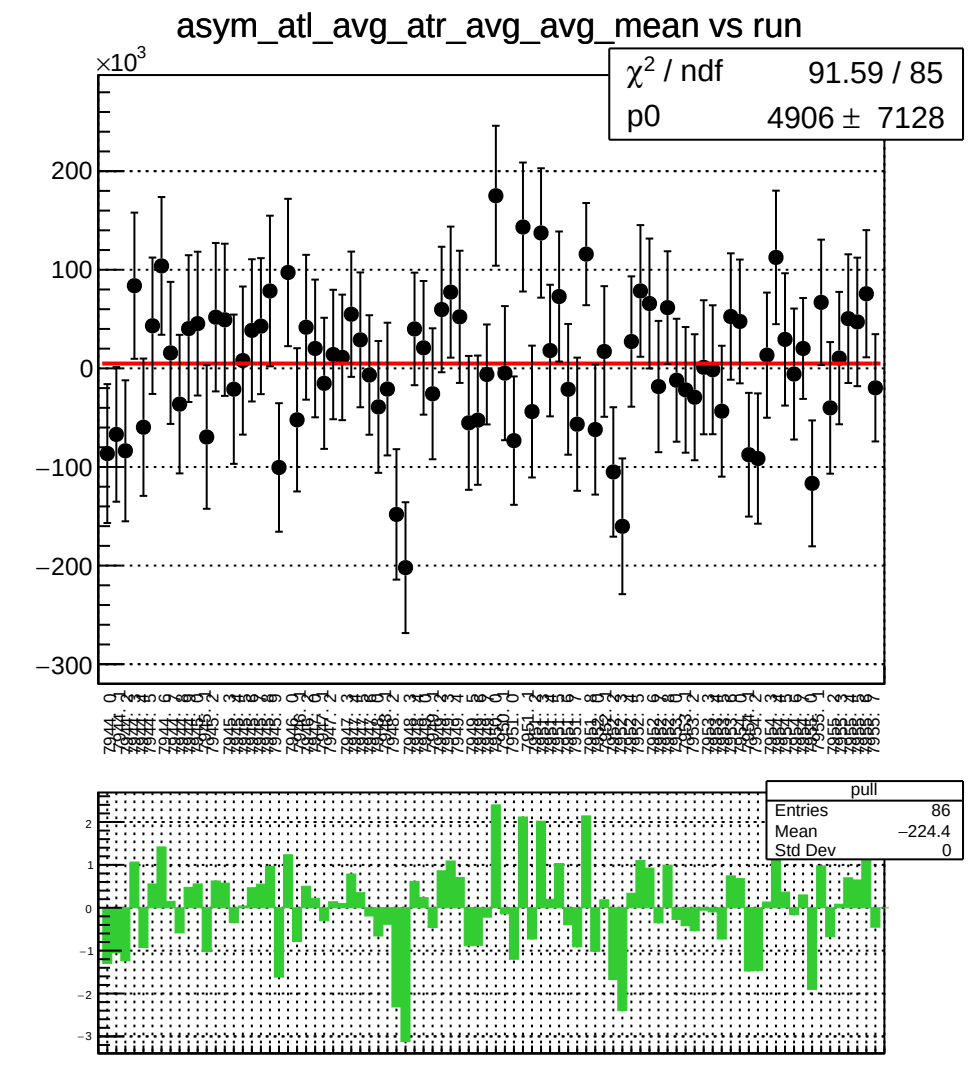

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.09 / 85
p0 2051 ± 1463
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 4026
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.0003949
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

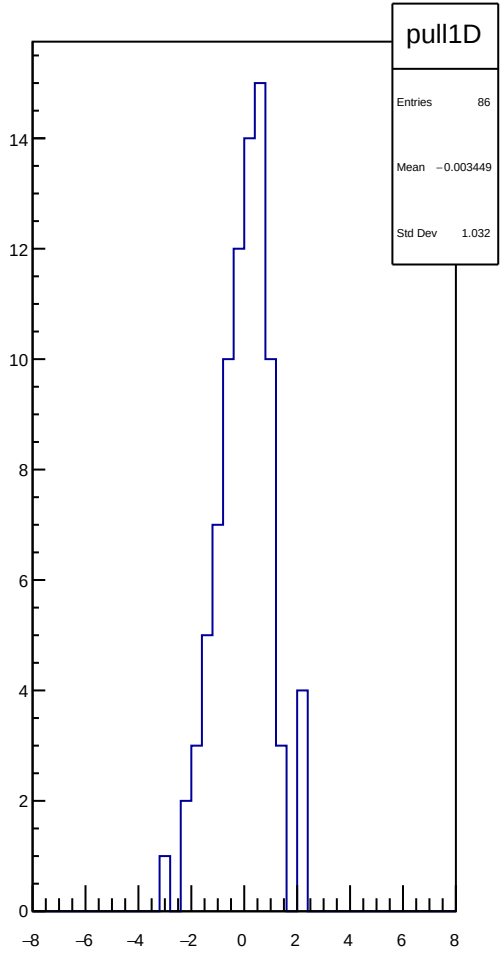

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 440.6 / 85
p0 1316 ± 1.034
1400
1380
1360
1340
1320
1300
1280

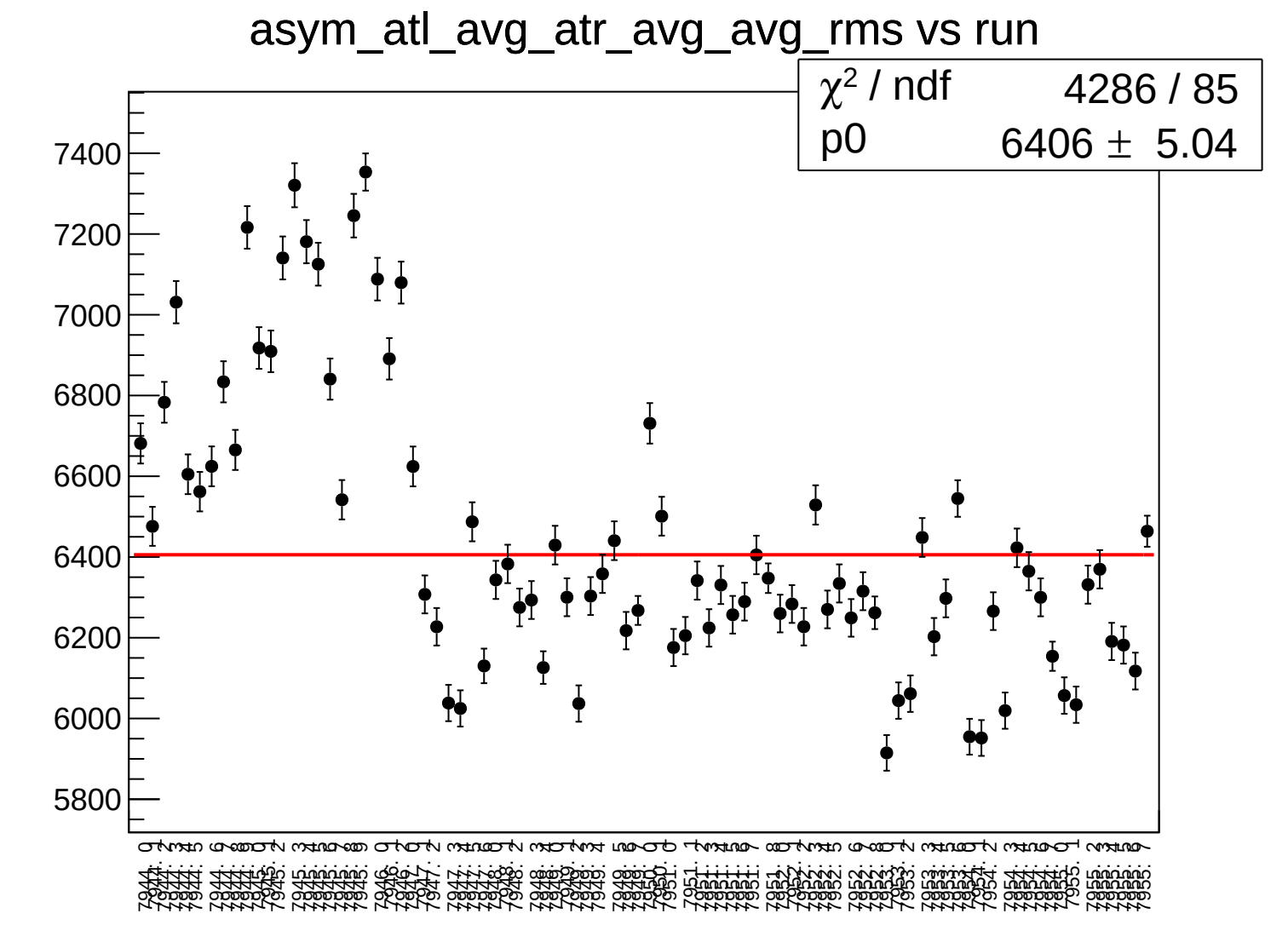

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.85 / 85
p0 −3080 ± 6979
pull
Entries 86
Mean −205.2
Std Dev 0

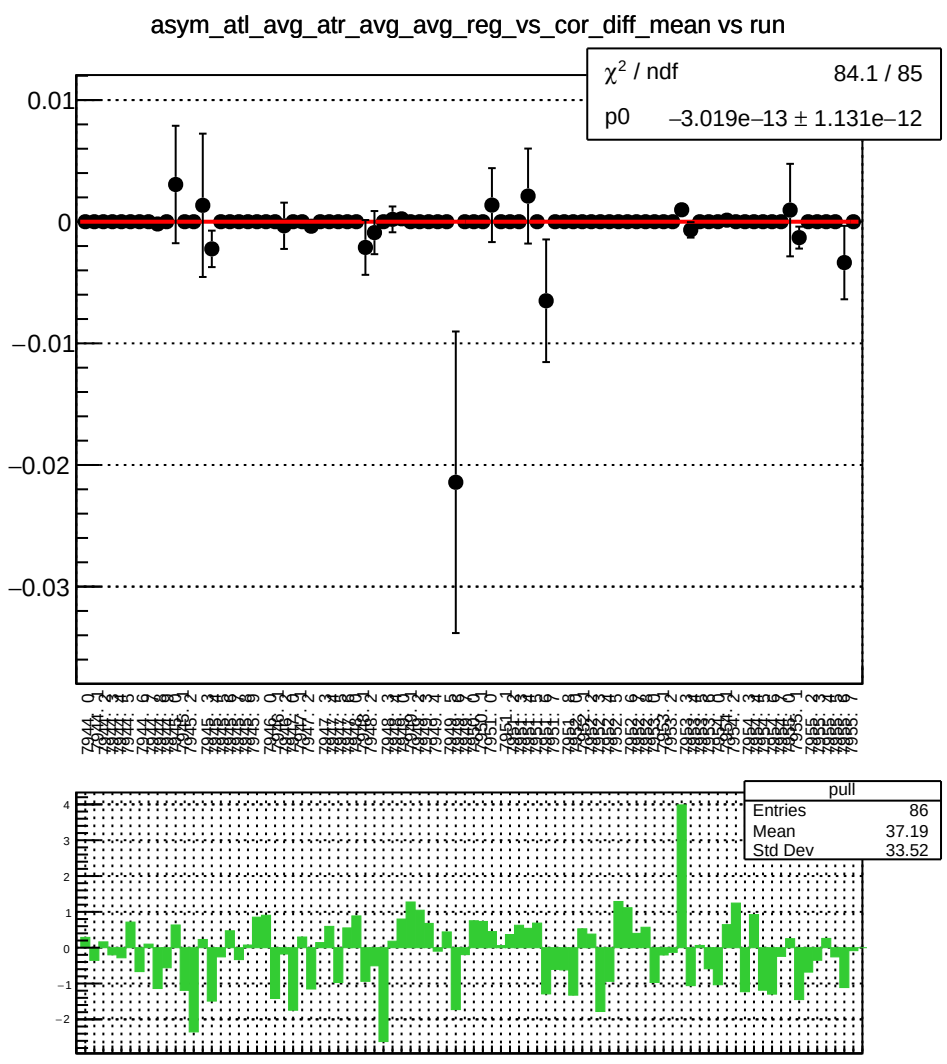

pull1D
Entries 86
Mean 0.005257
Std Dev 1.033

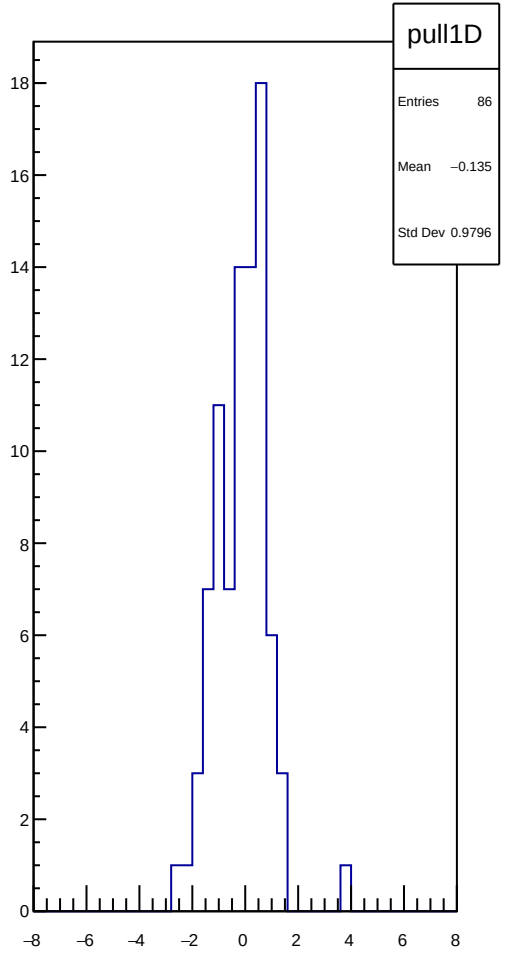

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5359 / 85
p0 6269 ± 4.935
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

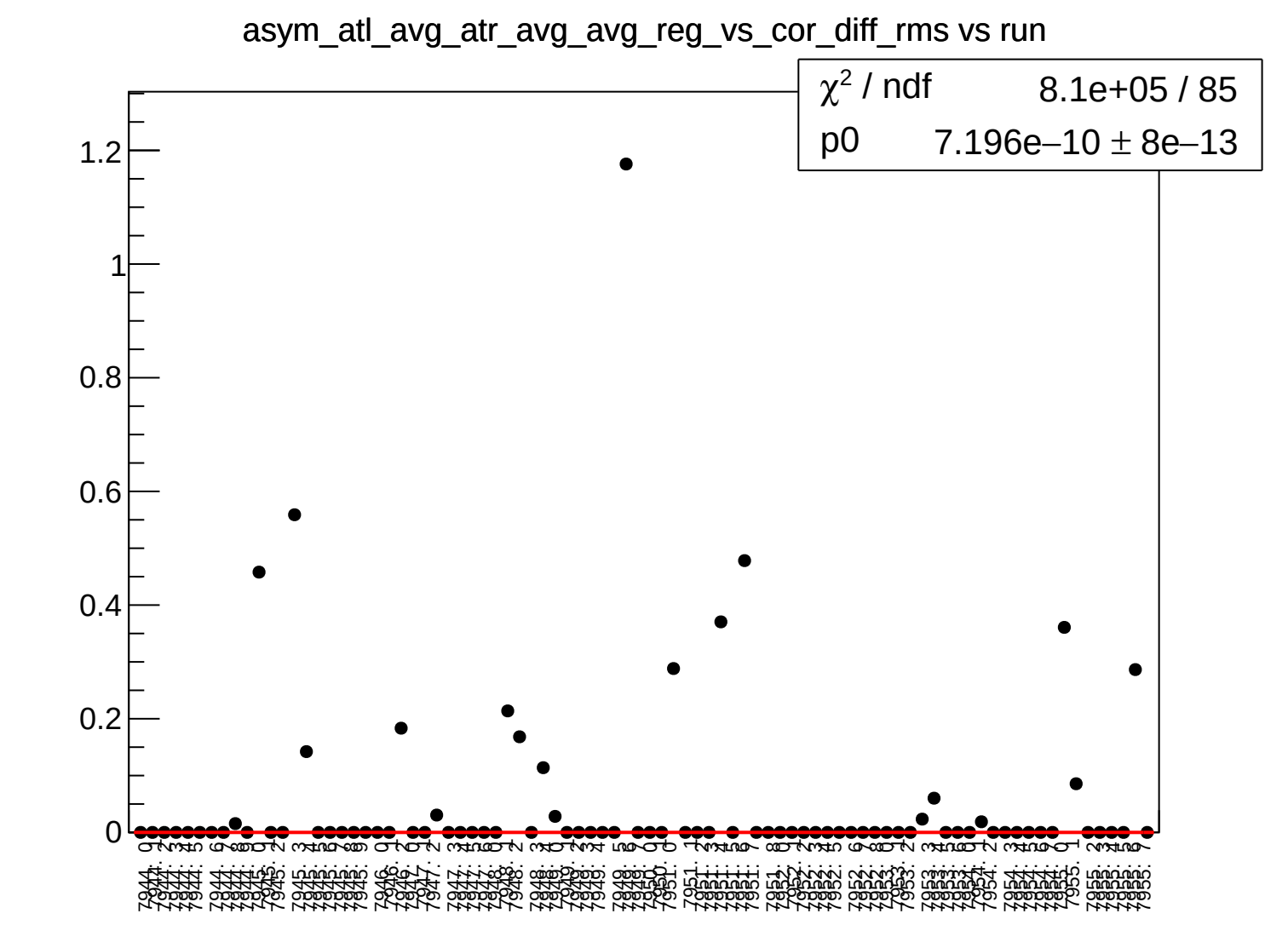

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 91.59 / 85
p0 4906 ± 7128
200
100
0
−100
−200
−300
pull
Entries 86
Mean −224.4
Std Dev 0
2
1
0
−1
−2
−3

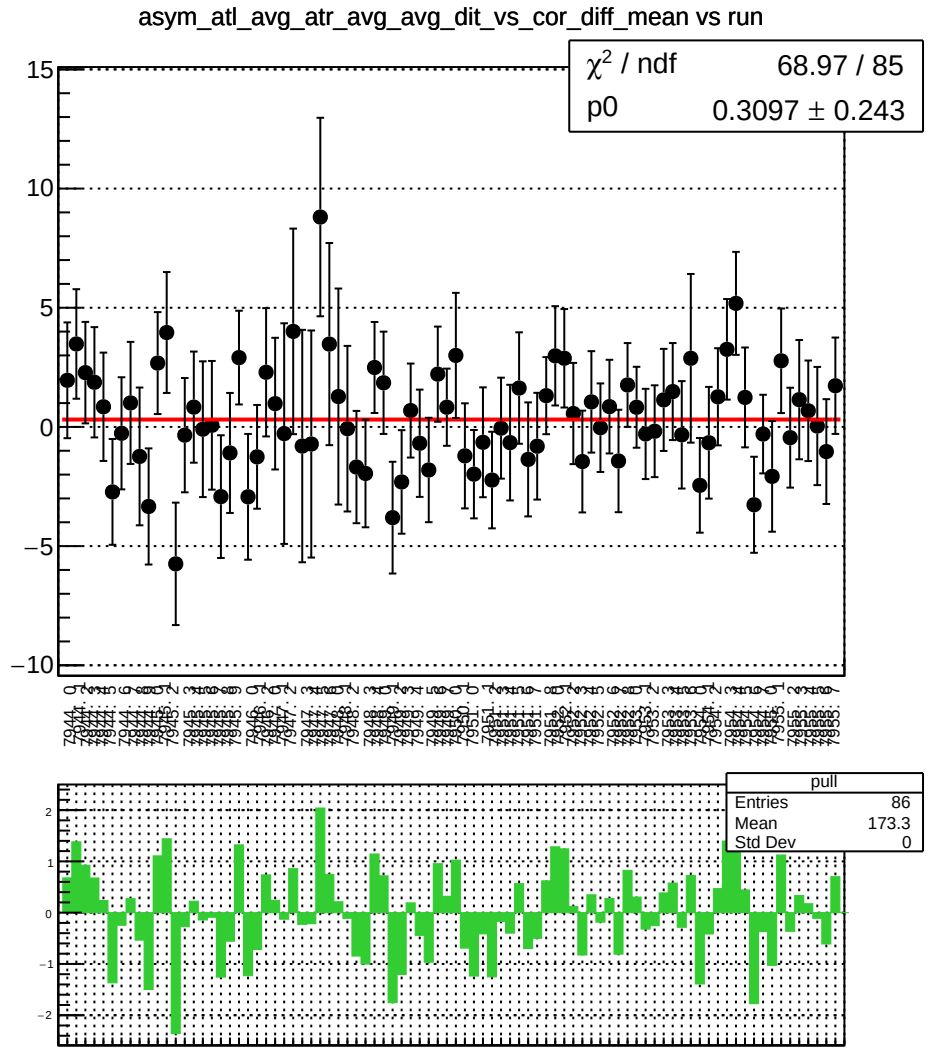

pull1D
Entries 86
Mean −0.003449
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

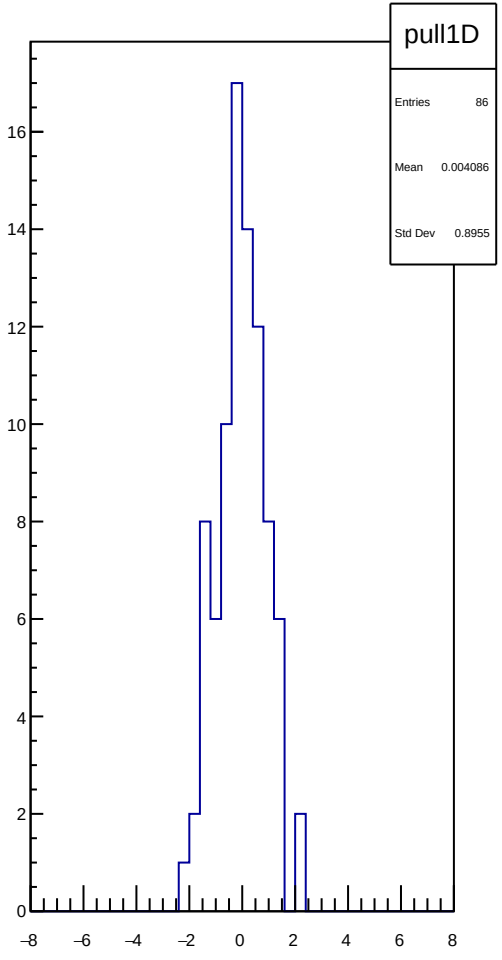

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4286 / 85
p0 6406 ± 5.04
7400
7200
7000
6800
6600
6400
6200
6000
5800

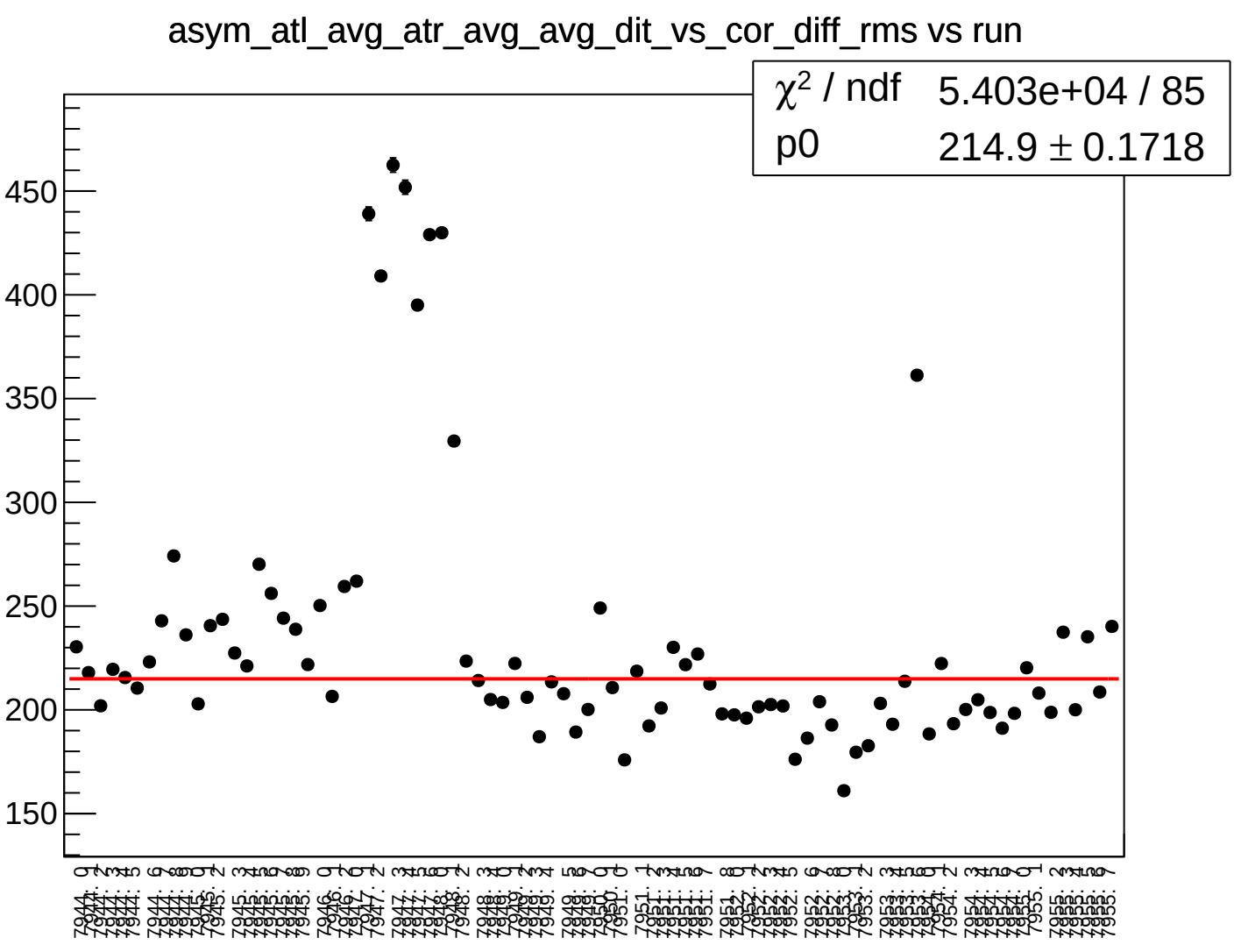

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.1 / 85
p0 −3.019e−13 ± 1.131e−12
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 37.19
Std Dev 33.52
4
3
2
1
0
−1
−2

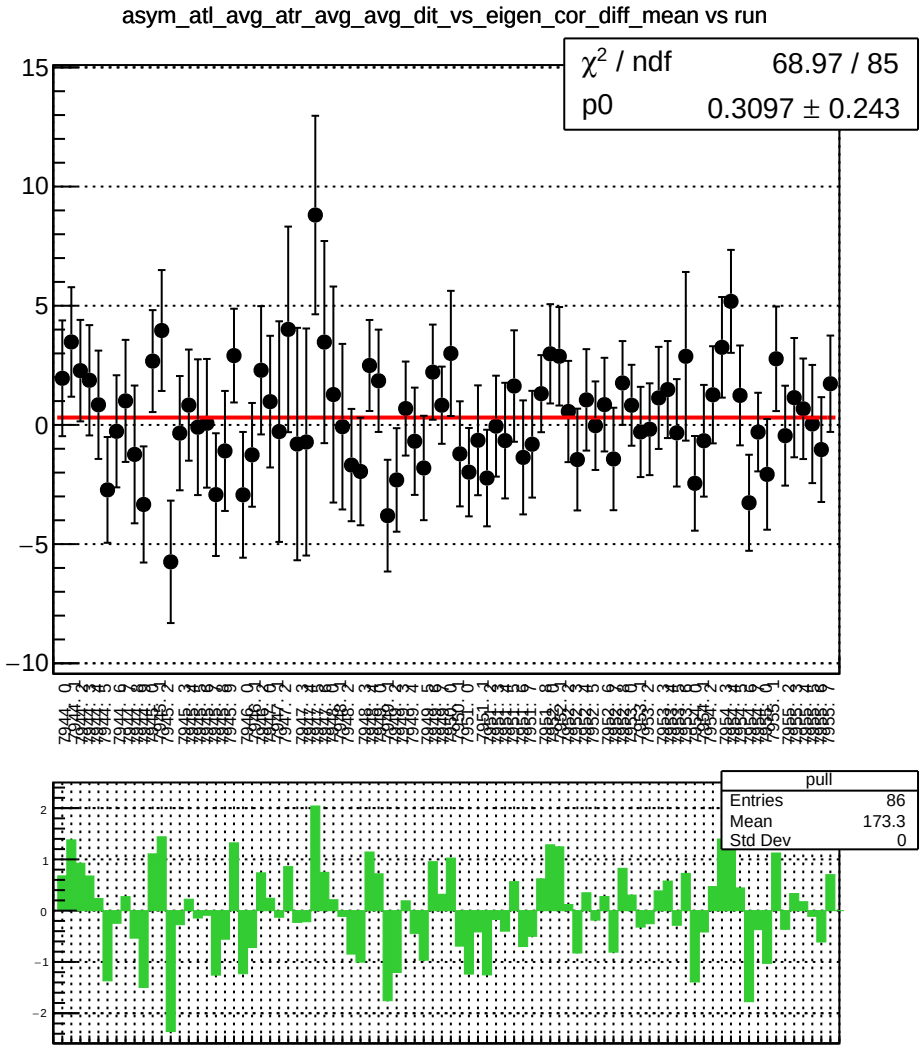

pull1D
Entries 86
Mean −0.135
Std Dev 0.9796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

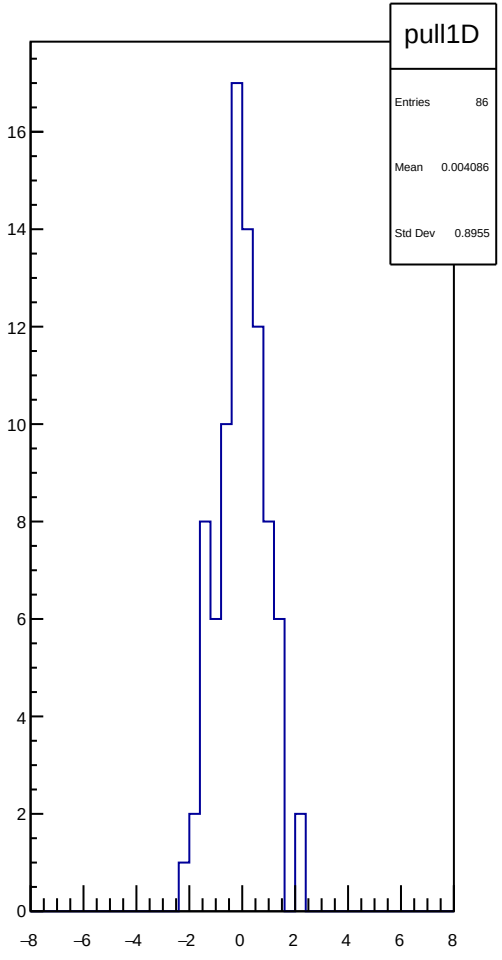

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.1e+05 / 85
p0 7.196e−10 ± 8e−13
1.2
1
0.8
0.6
0.4
0.2
0

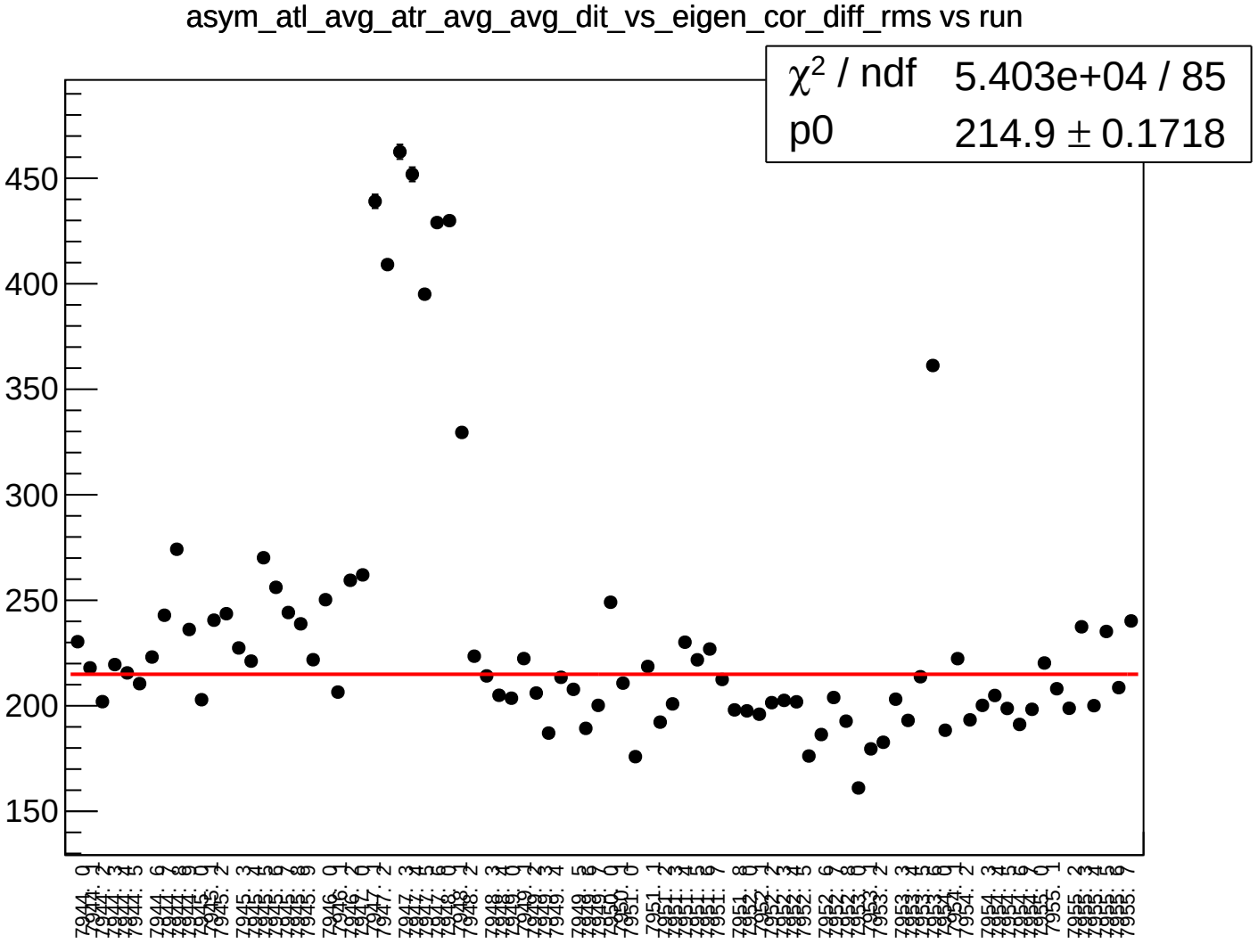

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.97 / 85
p0 0.3097 ± 0.243
pull
Entries 86
Mean 173.3
Std Dev 0

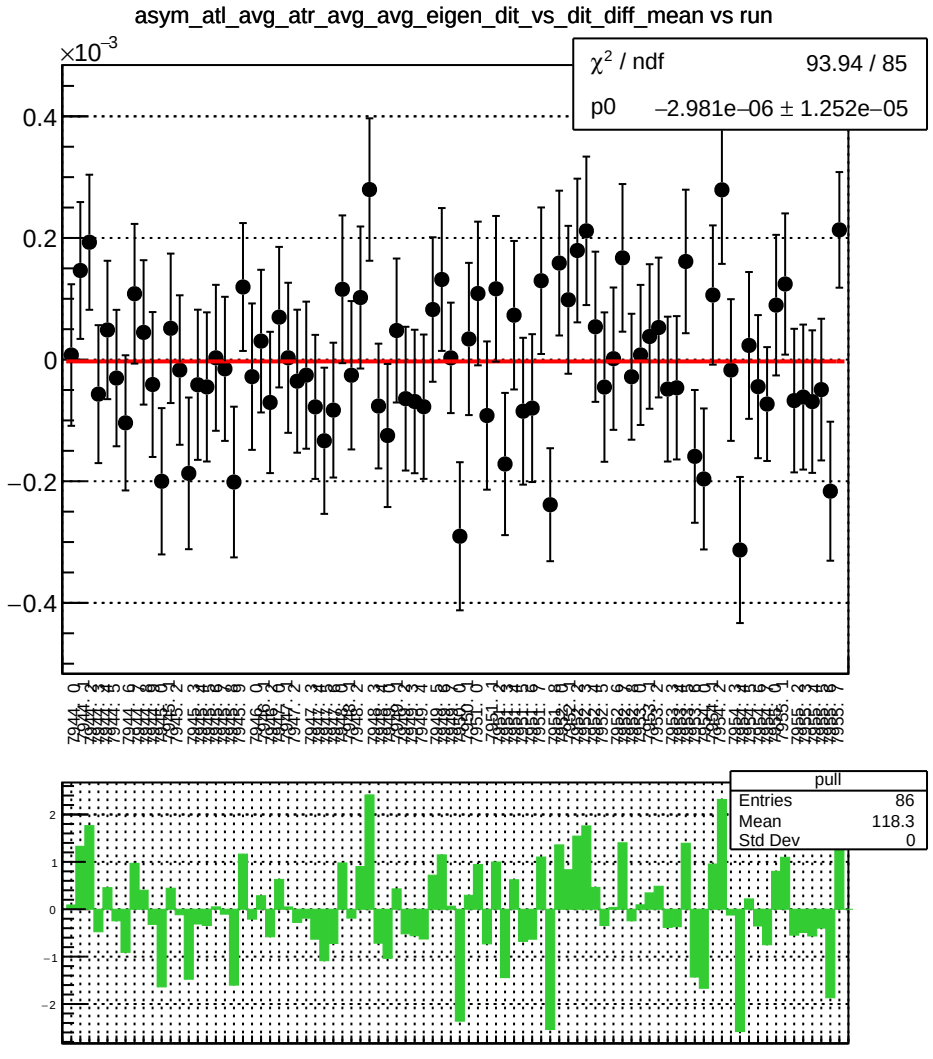

pull1D
Entries 86
Mean 0.004086
Std Dev 0.8955

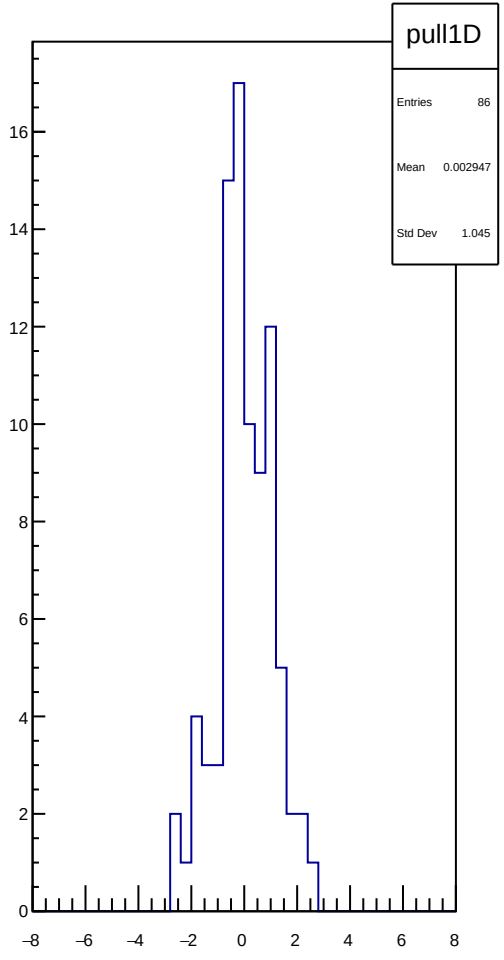

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.403e+04 / 85
p0 214.9 ± 0.1718
450
400
350
300
250
200
150

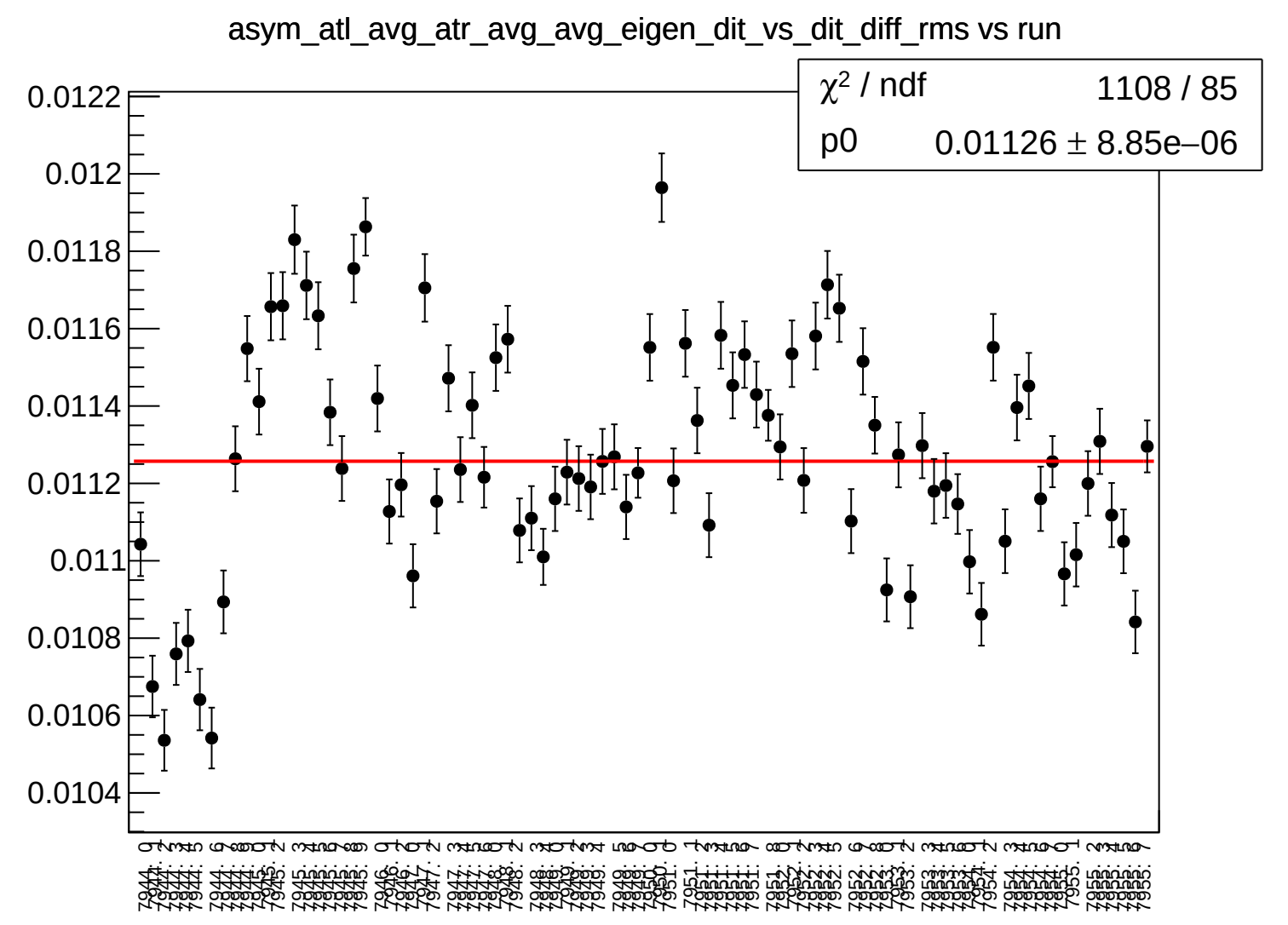

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.97 / 85
p0 0.3097 ± 0.243
pull
Entries 86
Mean 173.3
Std Dev 0

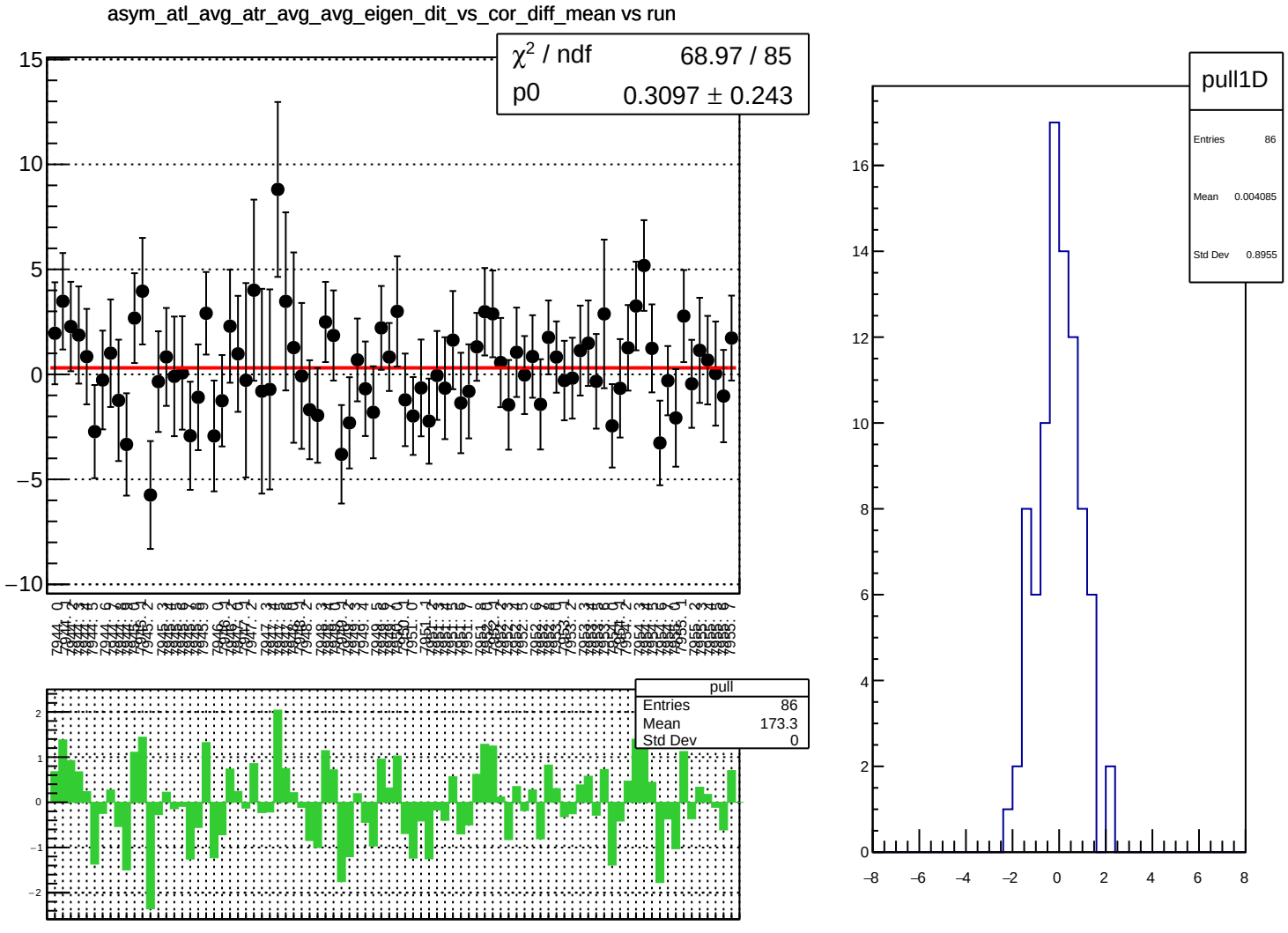

pull1D
Entries 86
Mean 0.004086
Std Dev 0.8955

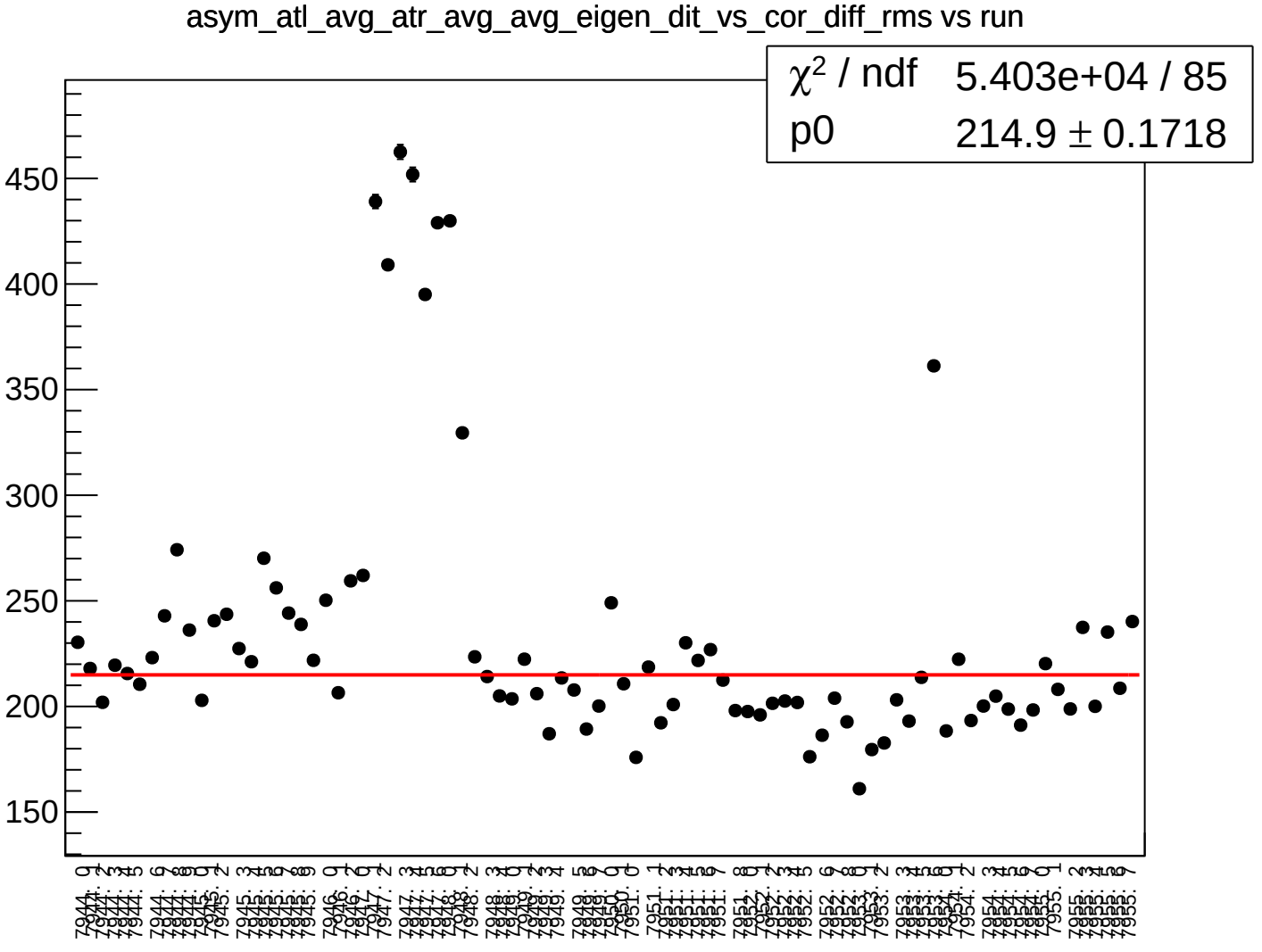

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.403e+04 / 85
p0 214.9 ± 0.1718
450
400
350
300
250
200
150

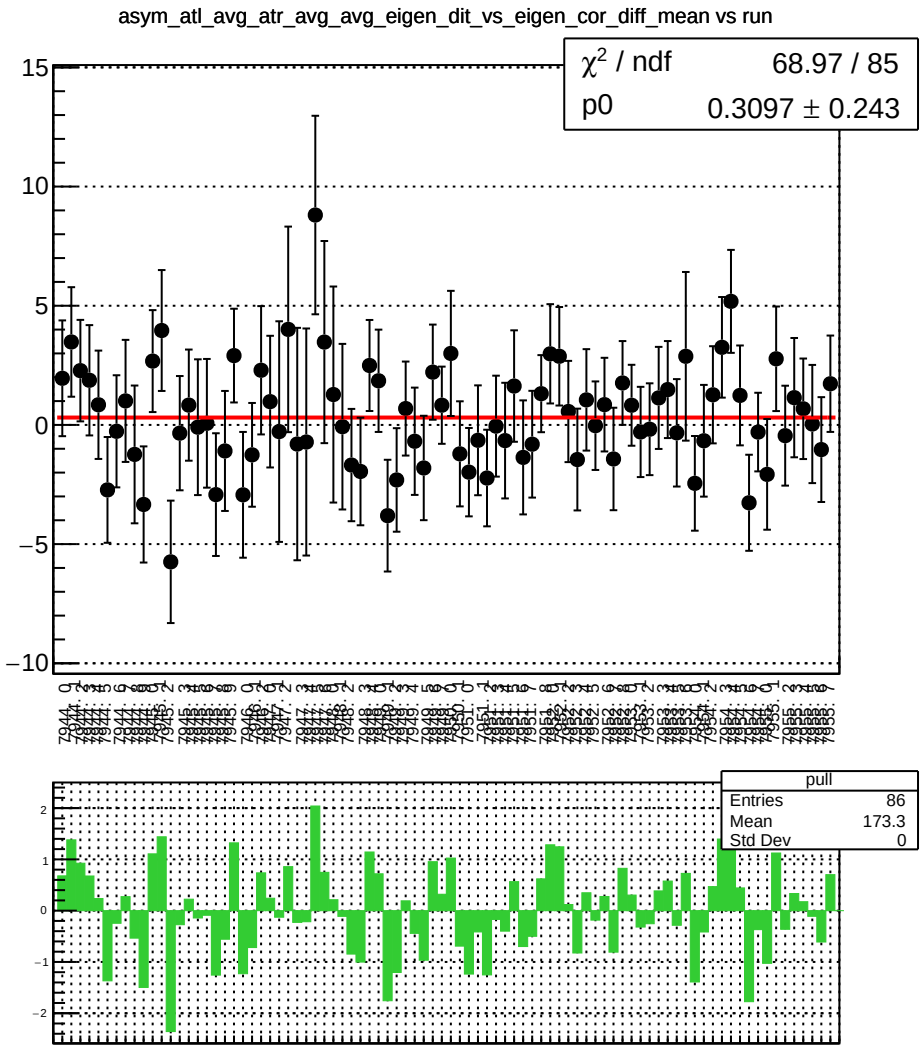

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.94 / 85
p0 −2.981e−06 ± 1.252e−05
pull
Entries 86
Mean 118.3
Std Dev 0

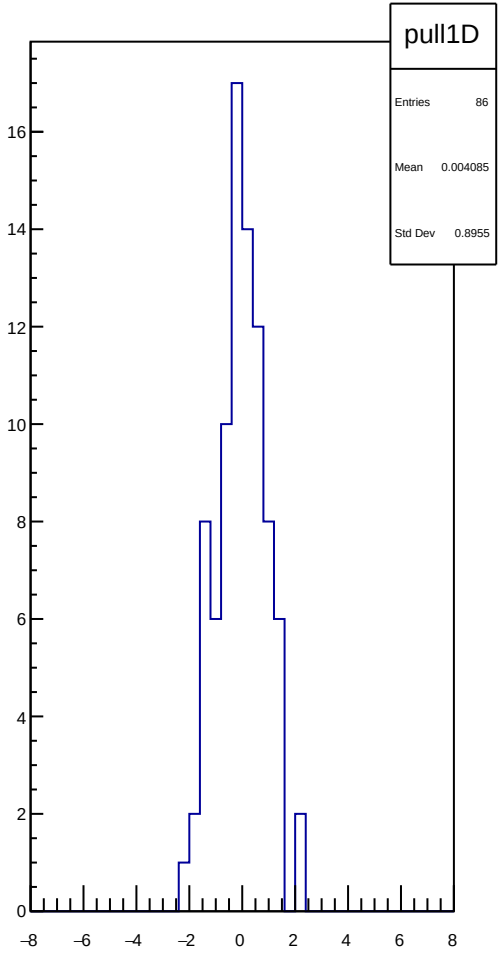

pull1D
Entries 86
Mean 0.002947
Std Dev 1.045

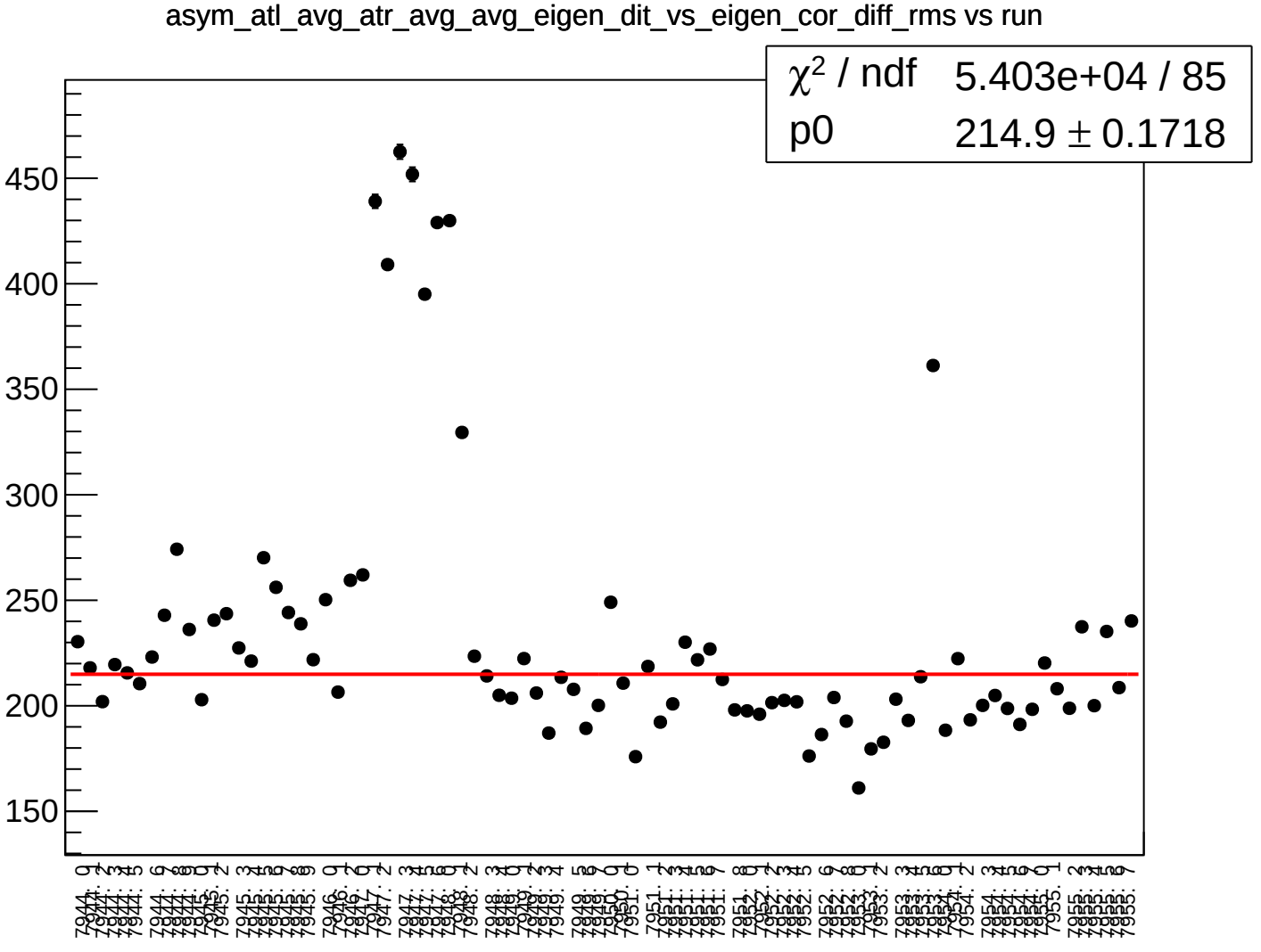

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1108 / 85
p0 0.01126 ± 8.85e−06
0.0122
0.012
0.0118
0.0116
0.0114
0.0112
0.011
0.0108
0.0106
0.0104

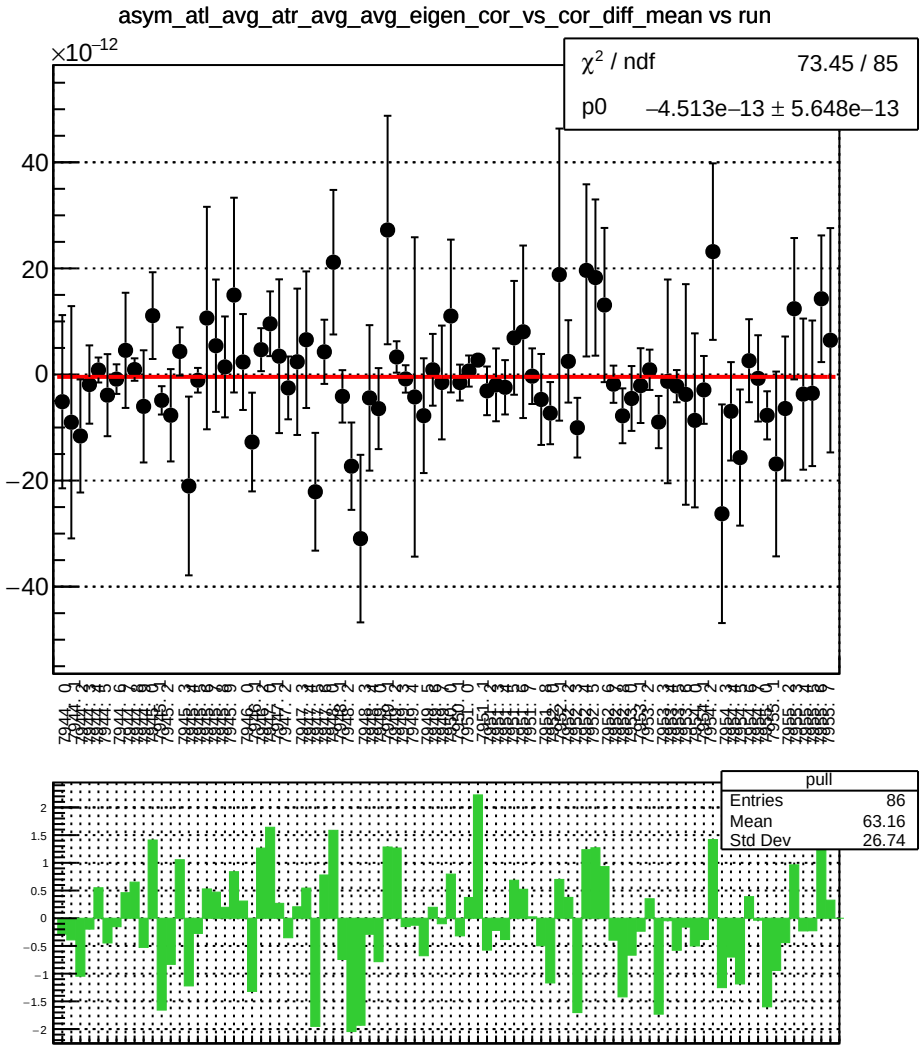

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.97 / 85
p0 0.3097 ± 0.243
pull
Entries 86
Mean 173.3
Std Dev 0
pull1D
Entries 86
Mean 0.004085
Std Dev 0.8955

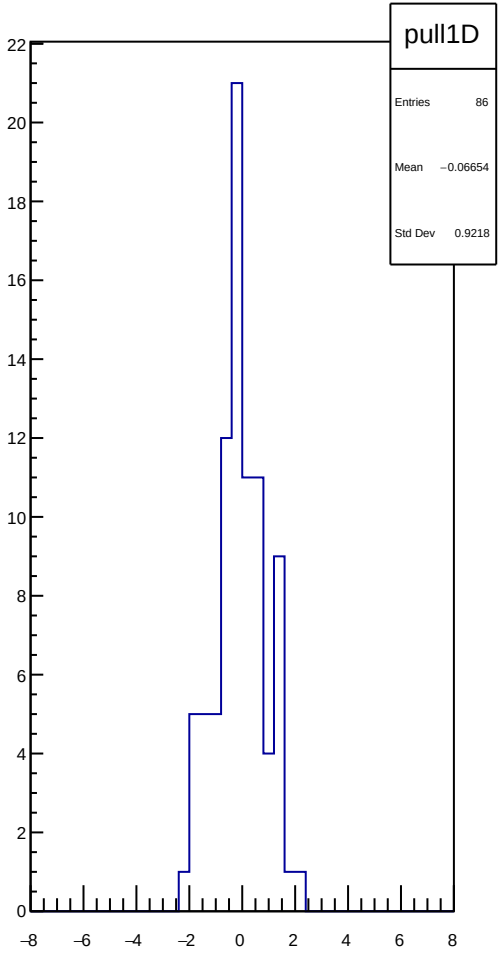

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.403e+04 / 85
p0 214.9 ± 0.1718
450
400
350
300
250
200
150

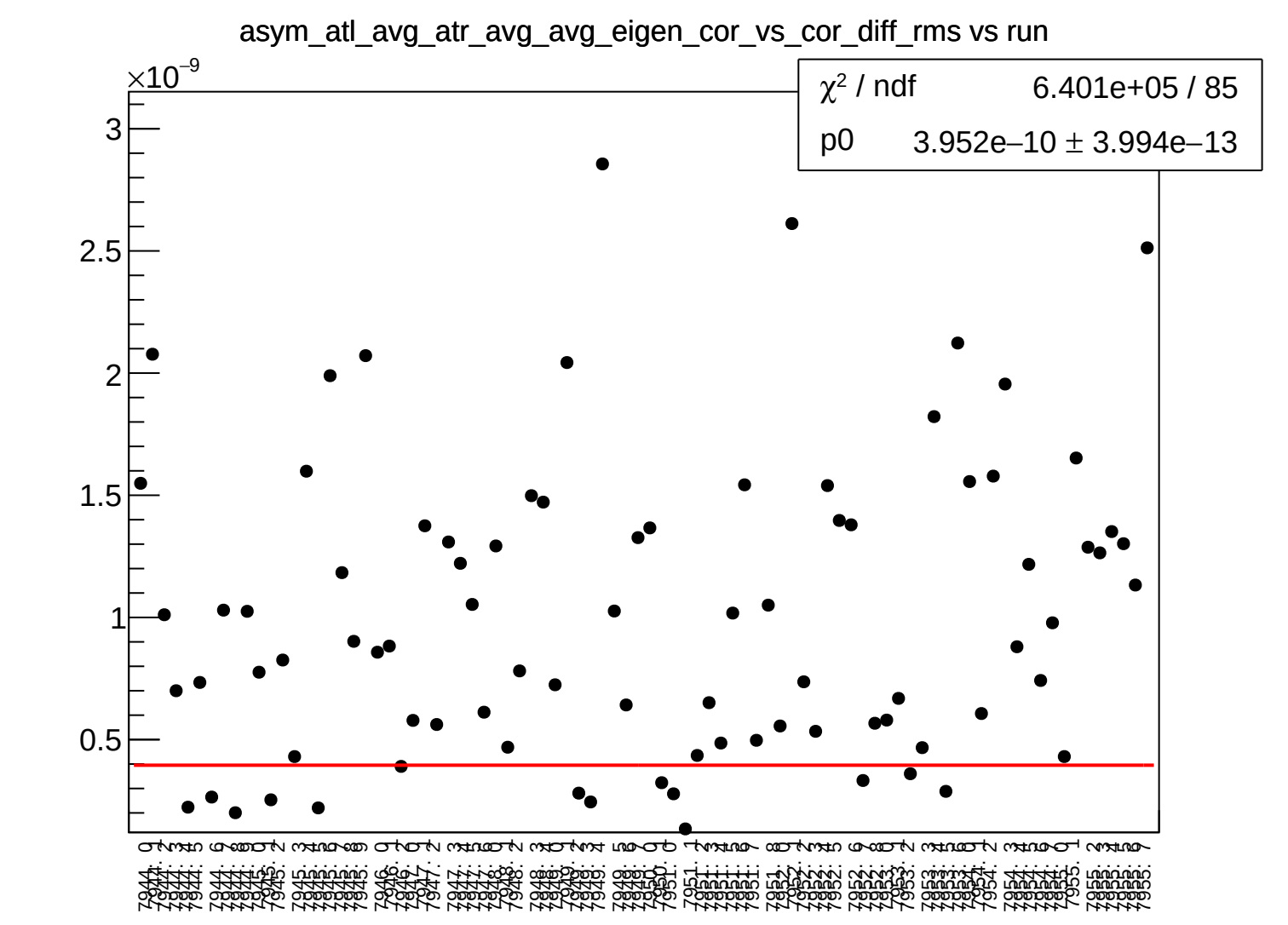

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.97 / 85
p0 0.3097 ± 0.243
pull
Entries 86
Mean 173.3
Std Dev 0

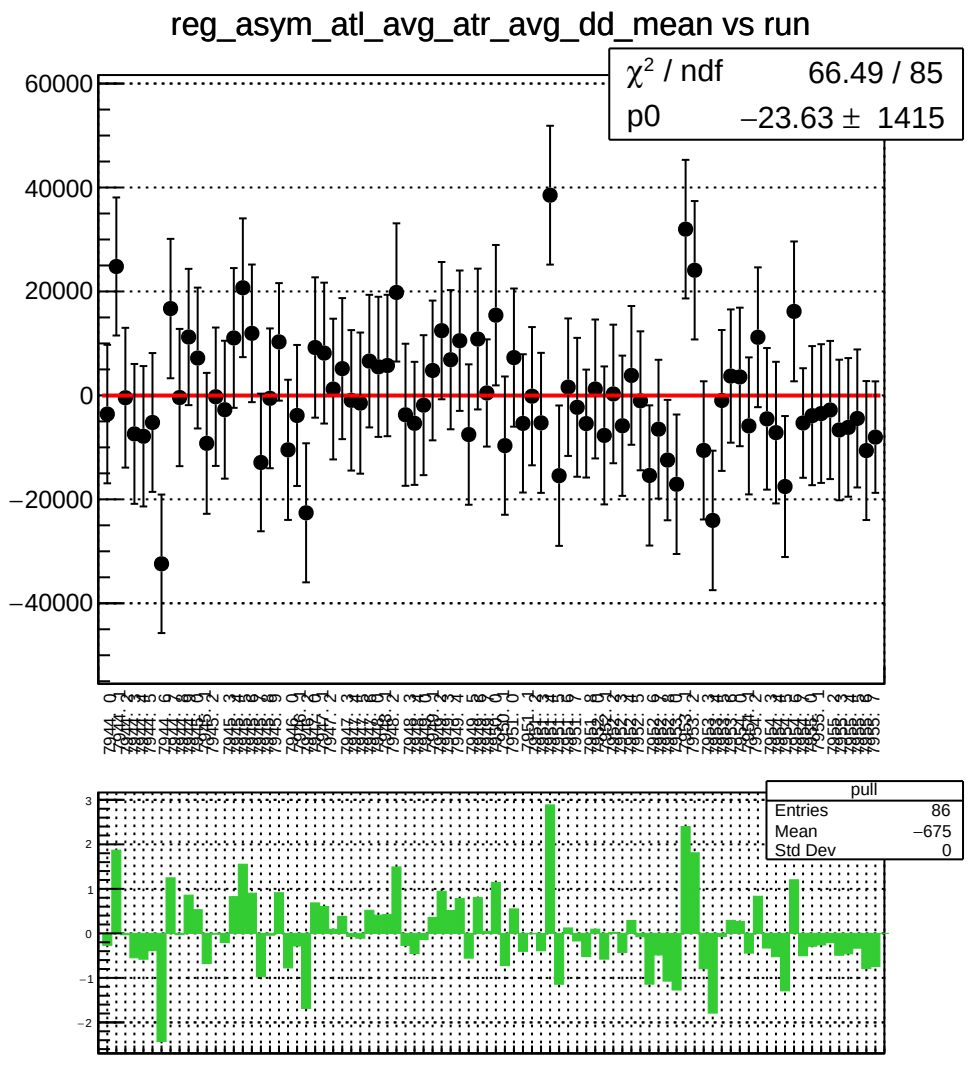

pull1D
Entries 86
Mean 0.004085
Std Dev 0.8955

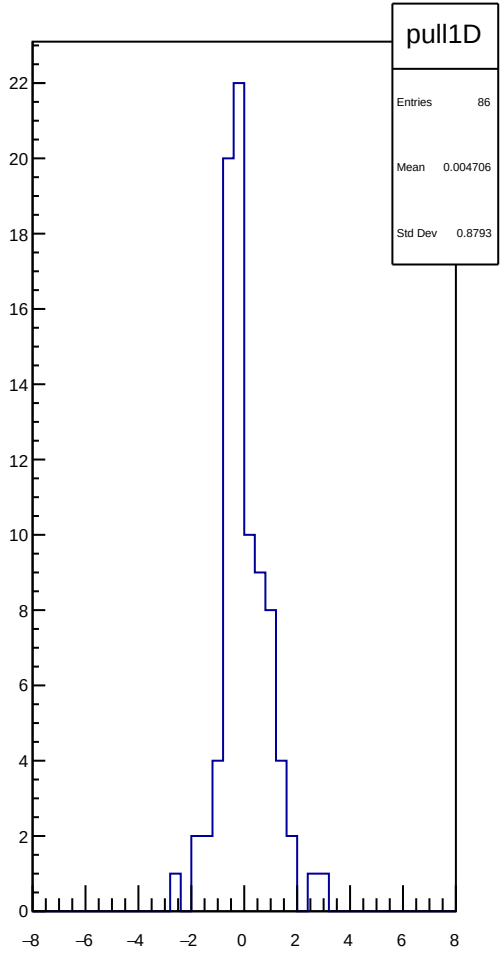

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.403e+04 / 85
p0 214.9 ± 0.1718
450
400
350
300
250
200
150

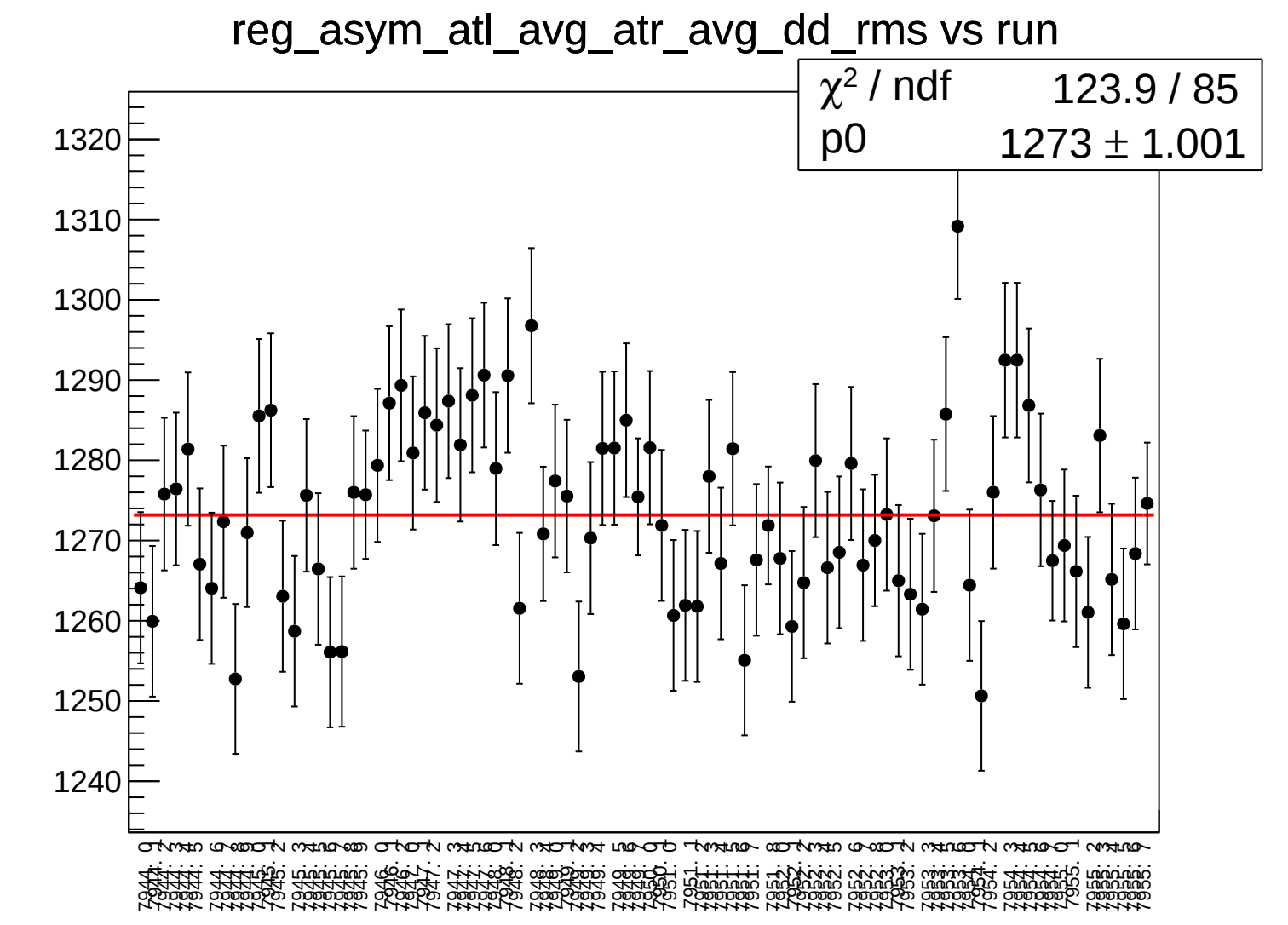

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.45 / 85
p0 −4.513e−13 ± 5.648e−13
40
20
0
−20
−40
pull
Entries 86
Mean 63.16
Std Dev 26.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

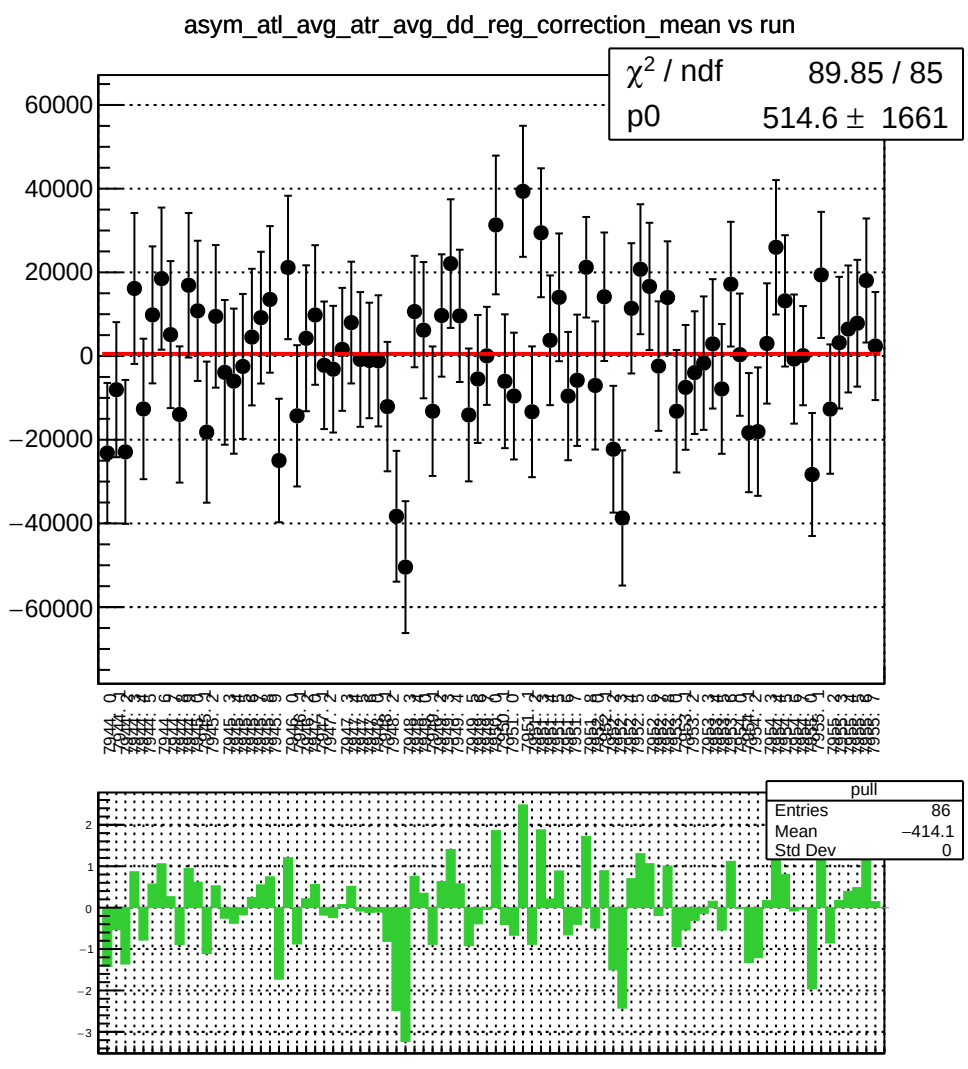

pull1D
Entries 86
Mean −0.06654
Std Dev 0.9218
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

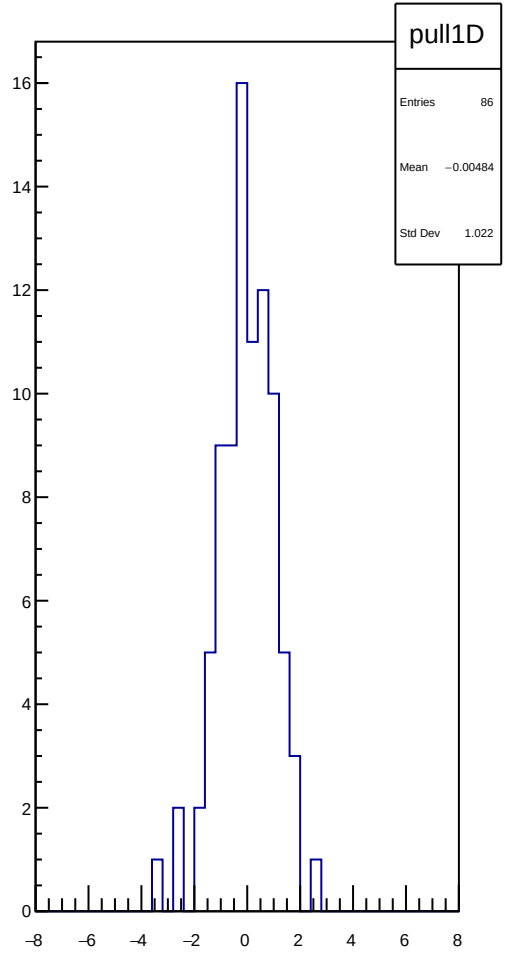

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.401e+05 / 85
p0 3.952e−10 ± 3.994e−13
3
2.5
2
1.5
1
0.5

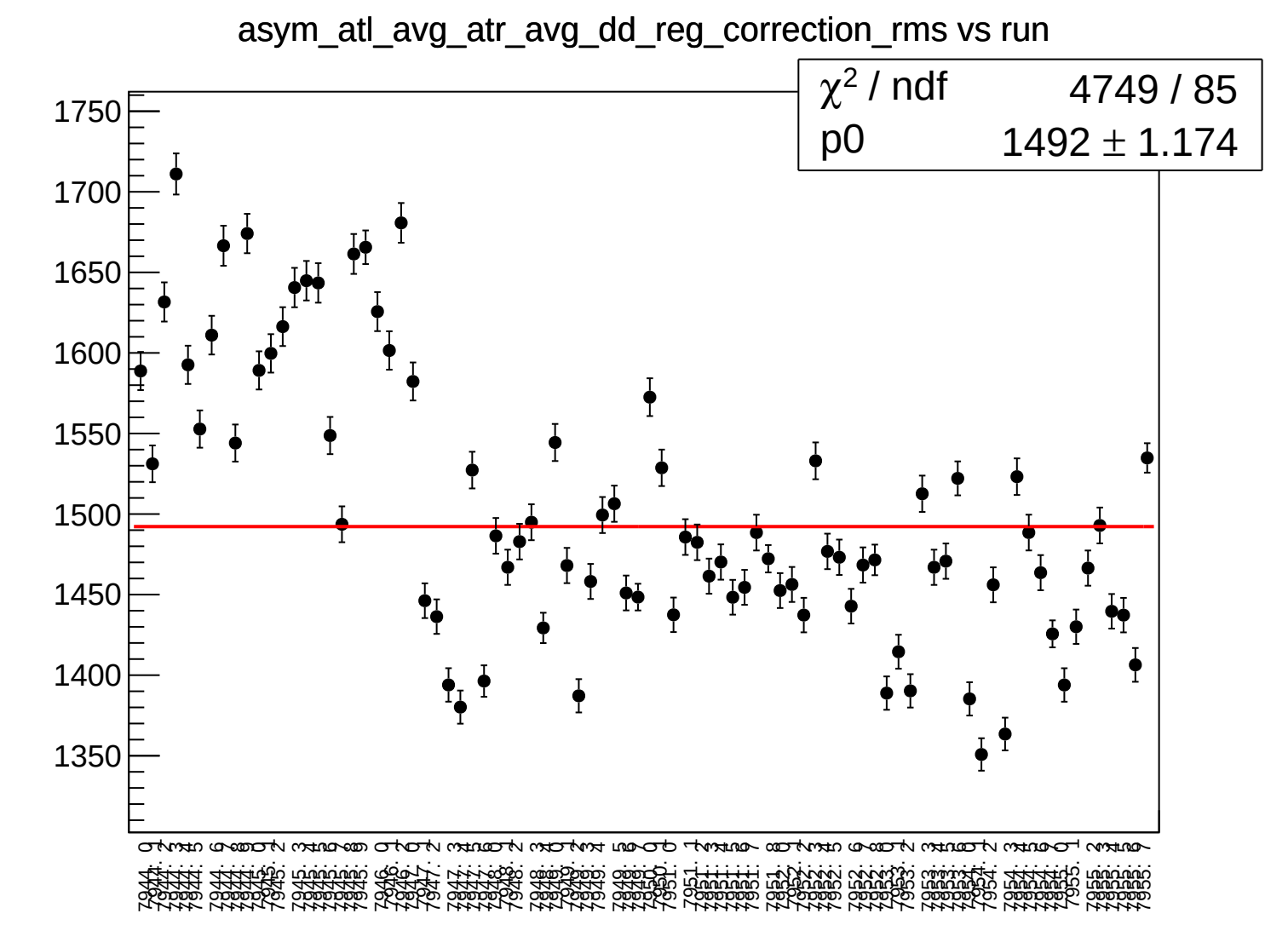

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 66.49 / 85
p0 −23.63 ± 1415
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −675
Std Dev 0
3
2
1
0
−1
−2

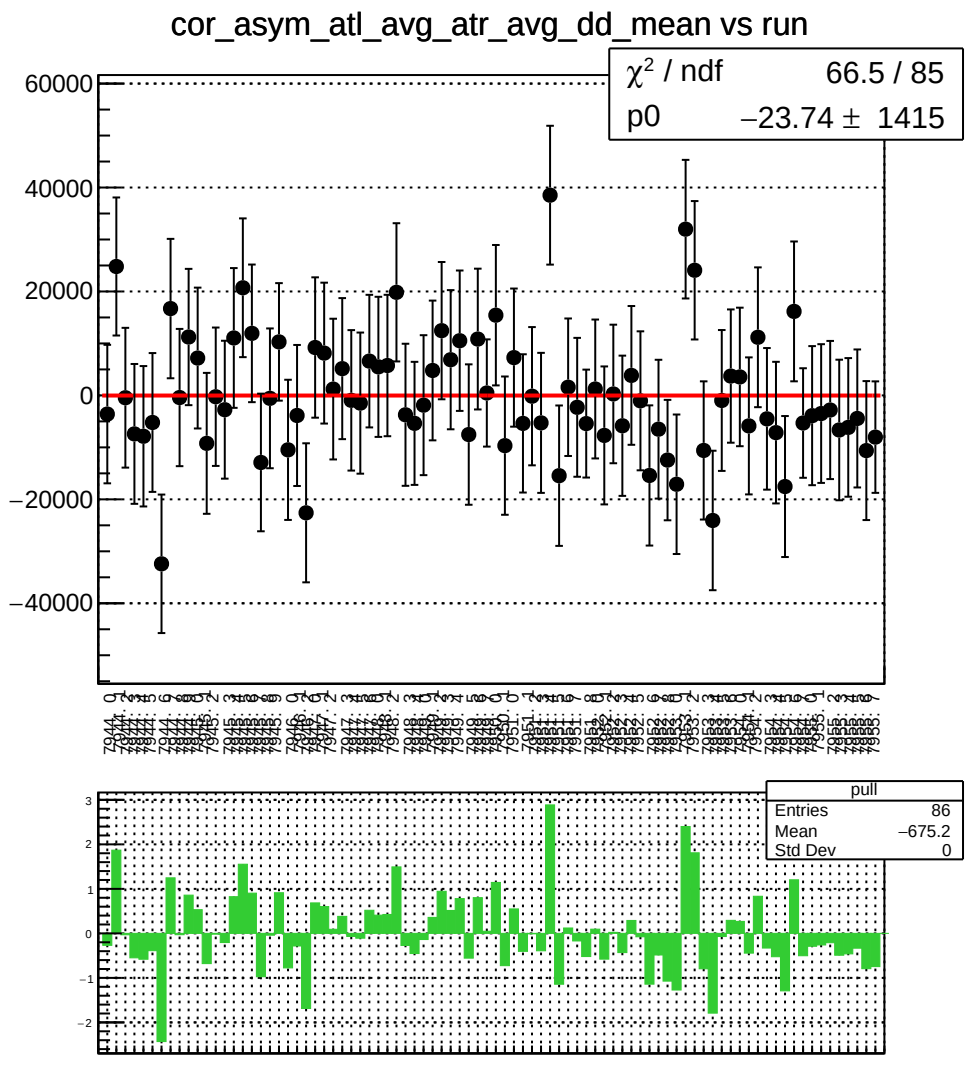

pull1D
Entries 86
Mean 0.004706
Std Dev 0.8793
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

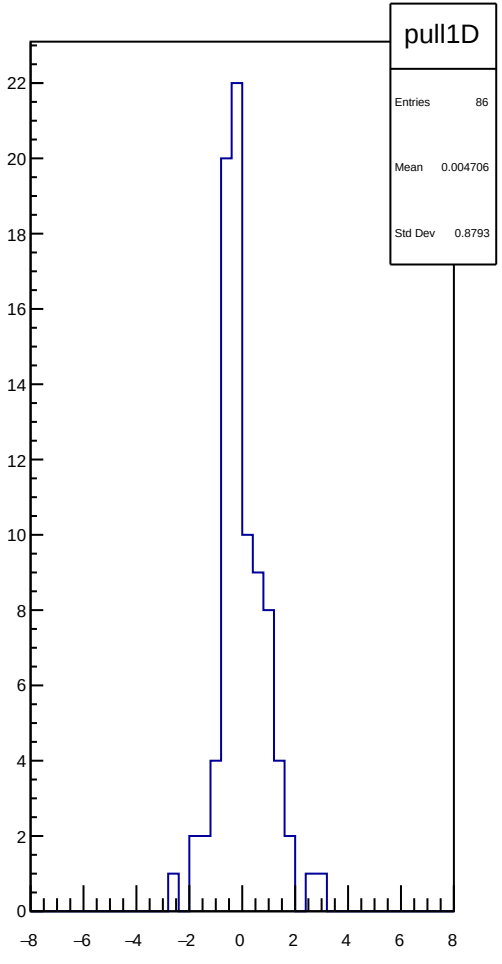

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 123.9 / 85
p0 1273 ± 1.001
1320
1310
1300
1290
1280
1270
1260
1250
1240

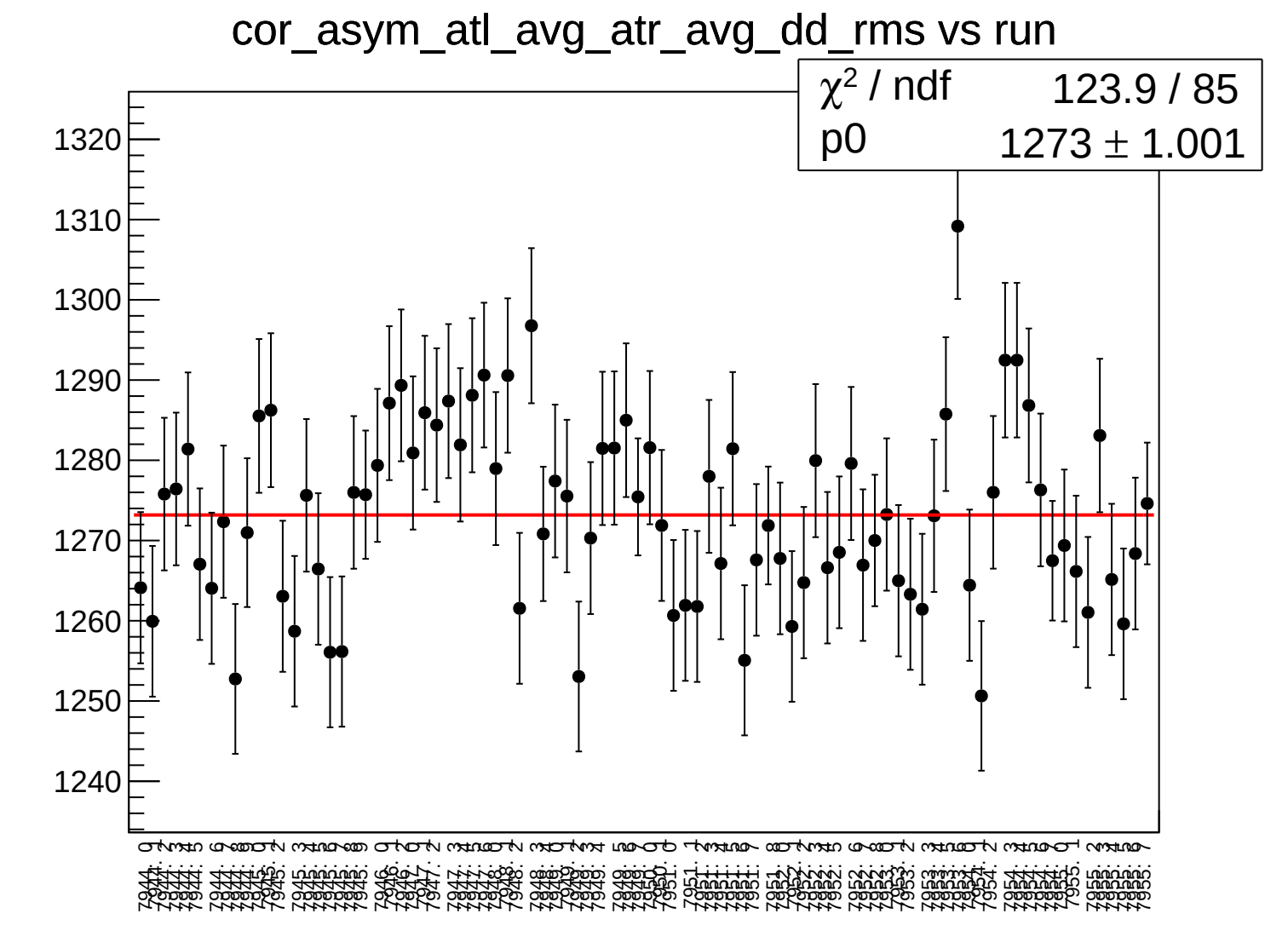

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 89.85 / 85
p0 514.6 ± 1661
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −414.1
Std Dev 0
2
1
0
−1
−2
−3

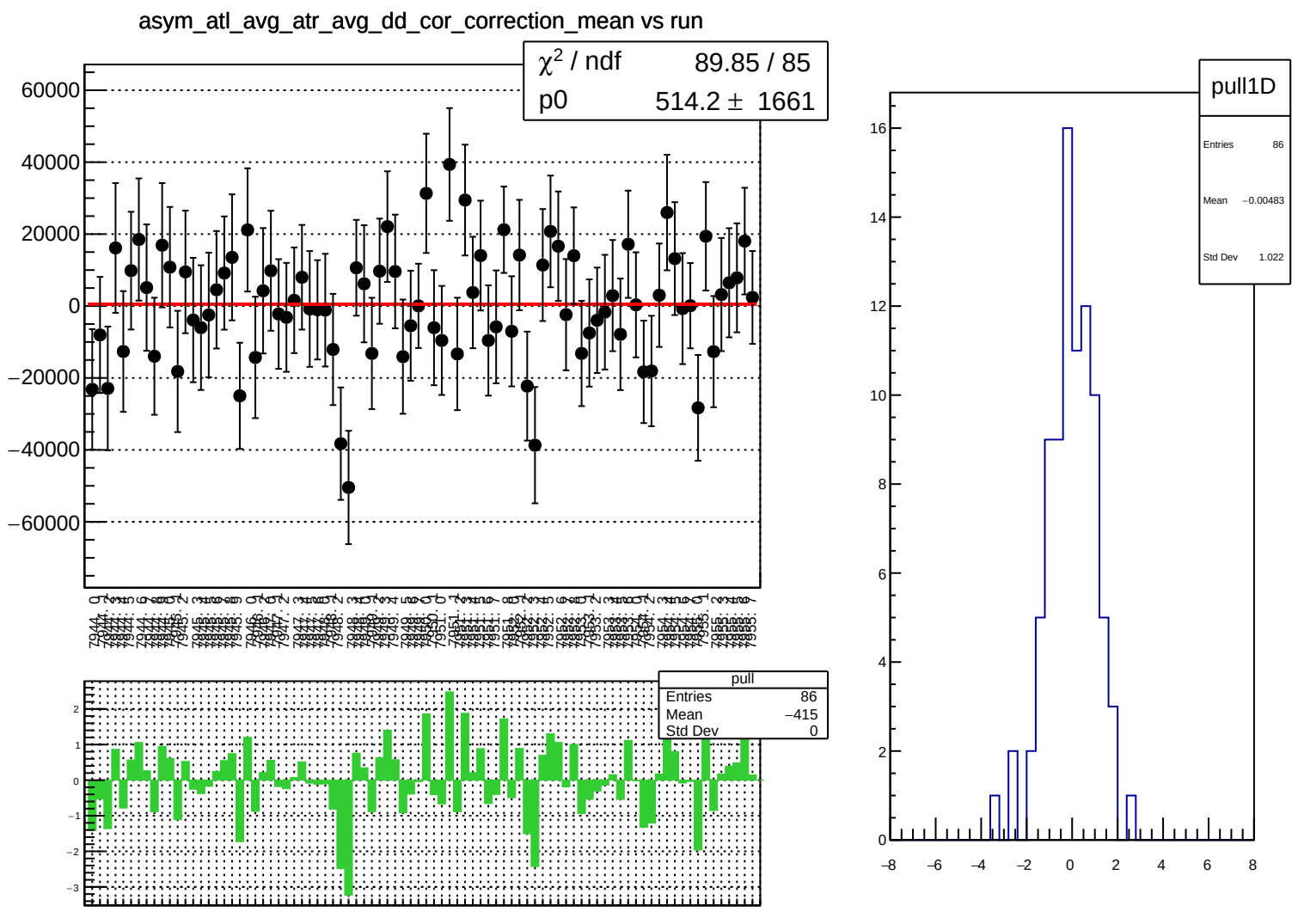

pull1D
Entries 86
Mean −0.00484
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

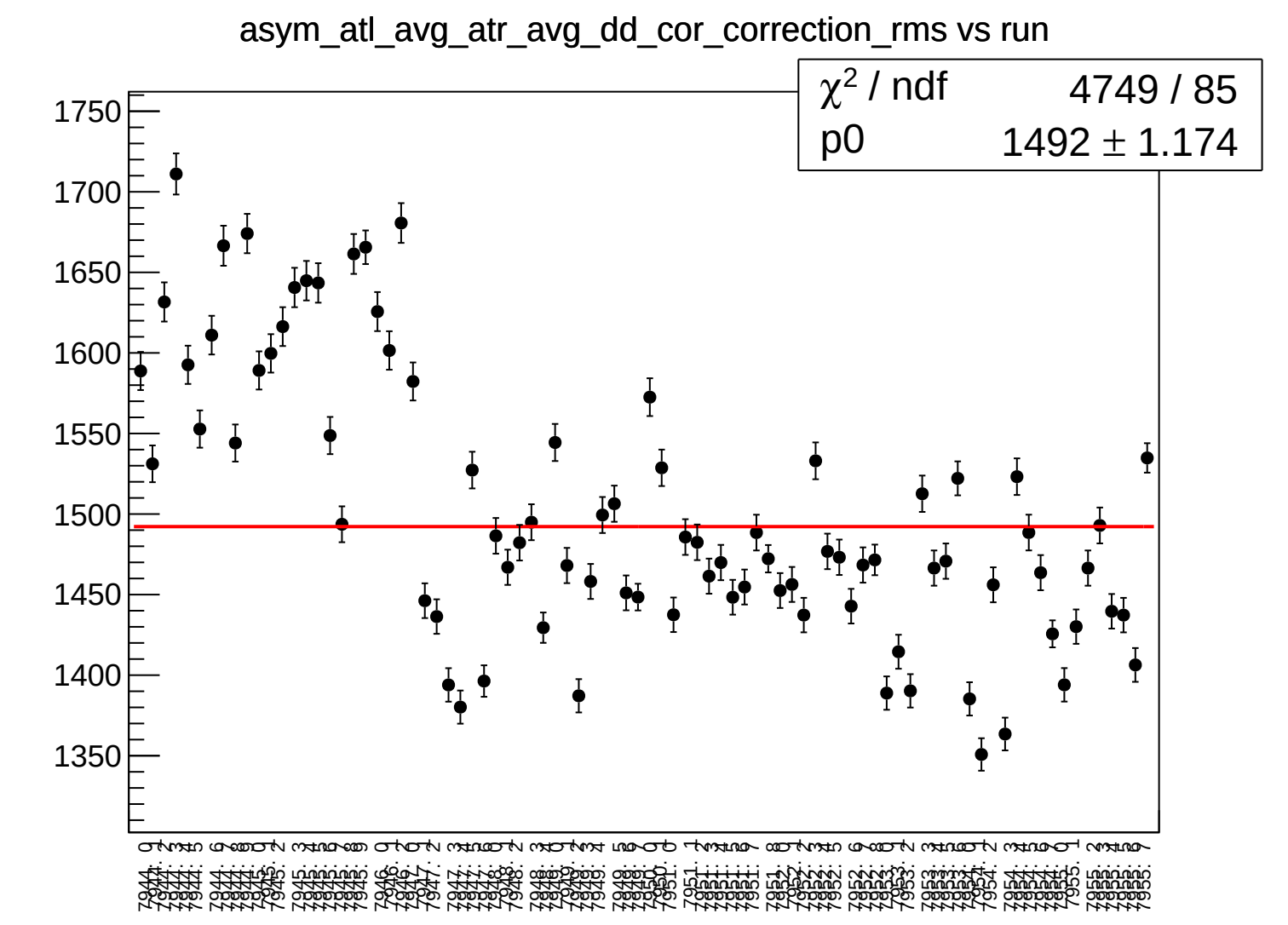

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 4749 / 85
p0 1492 ± 1.174
1750
1700
1650
1600
1550
1500
1450
1400
1350

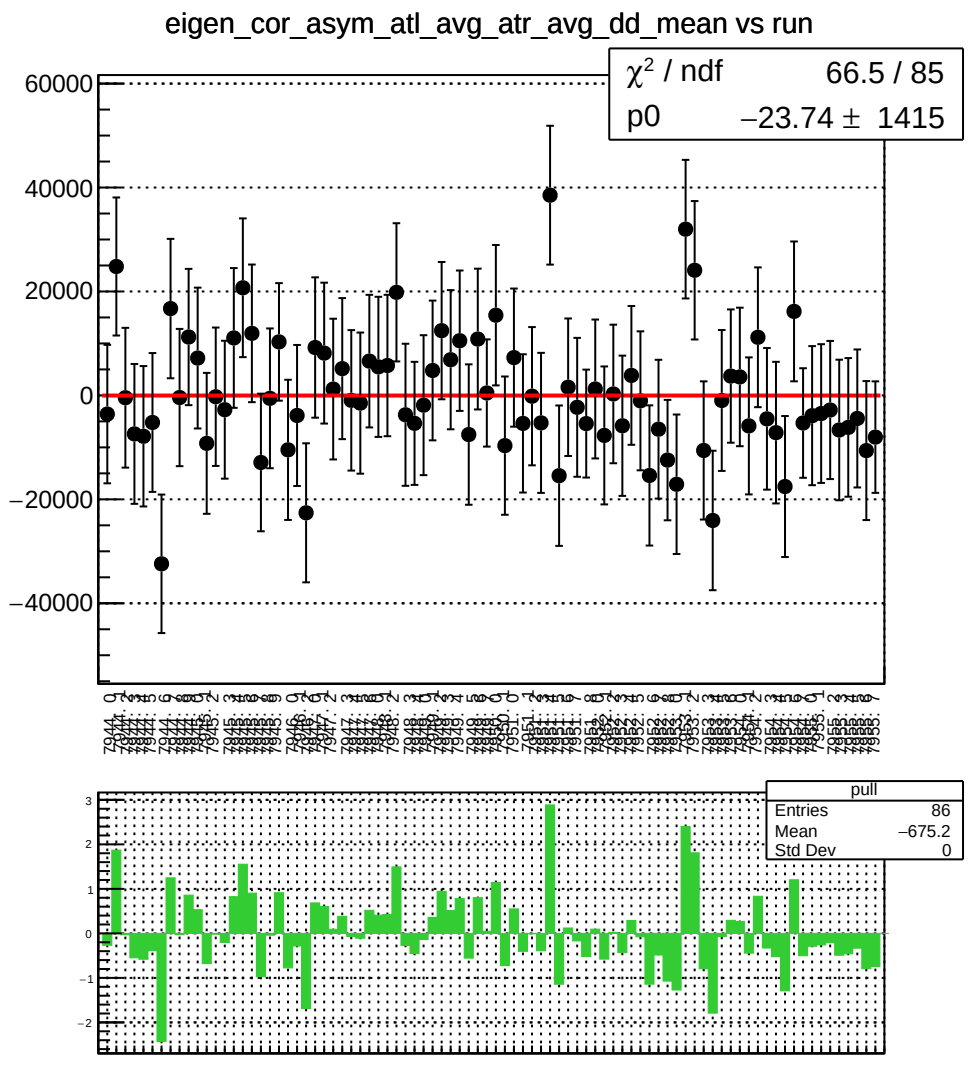

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 66.5 / 85
p0 −23.74 ± 1415
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −675.2
Std Dev 0
3
2
1
0
−1
−2

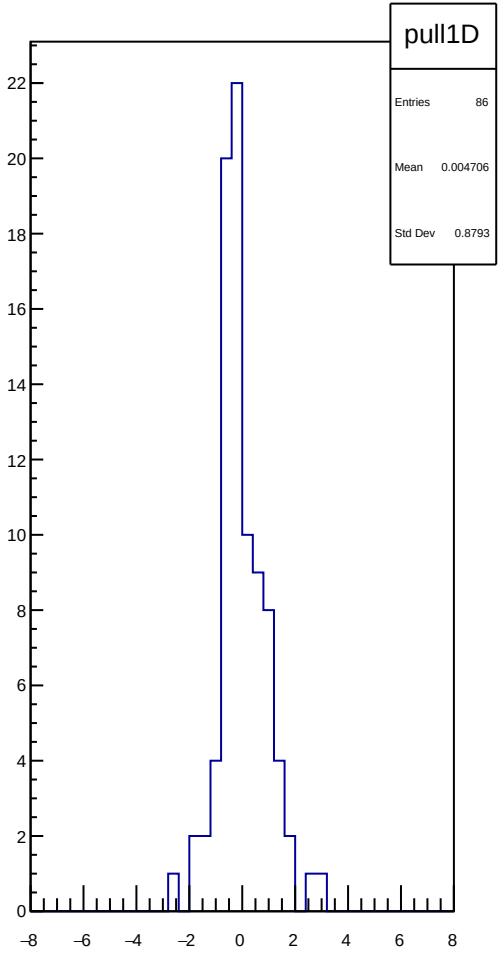

pull1D
Entries 86
Mean 0.004706
Std Dev 0.8793
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

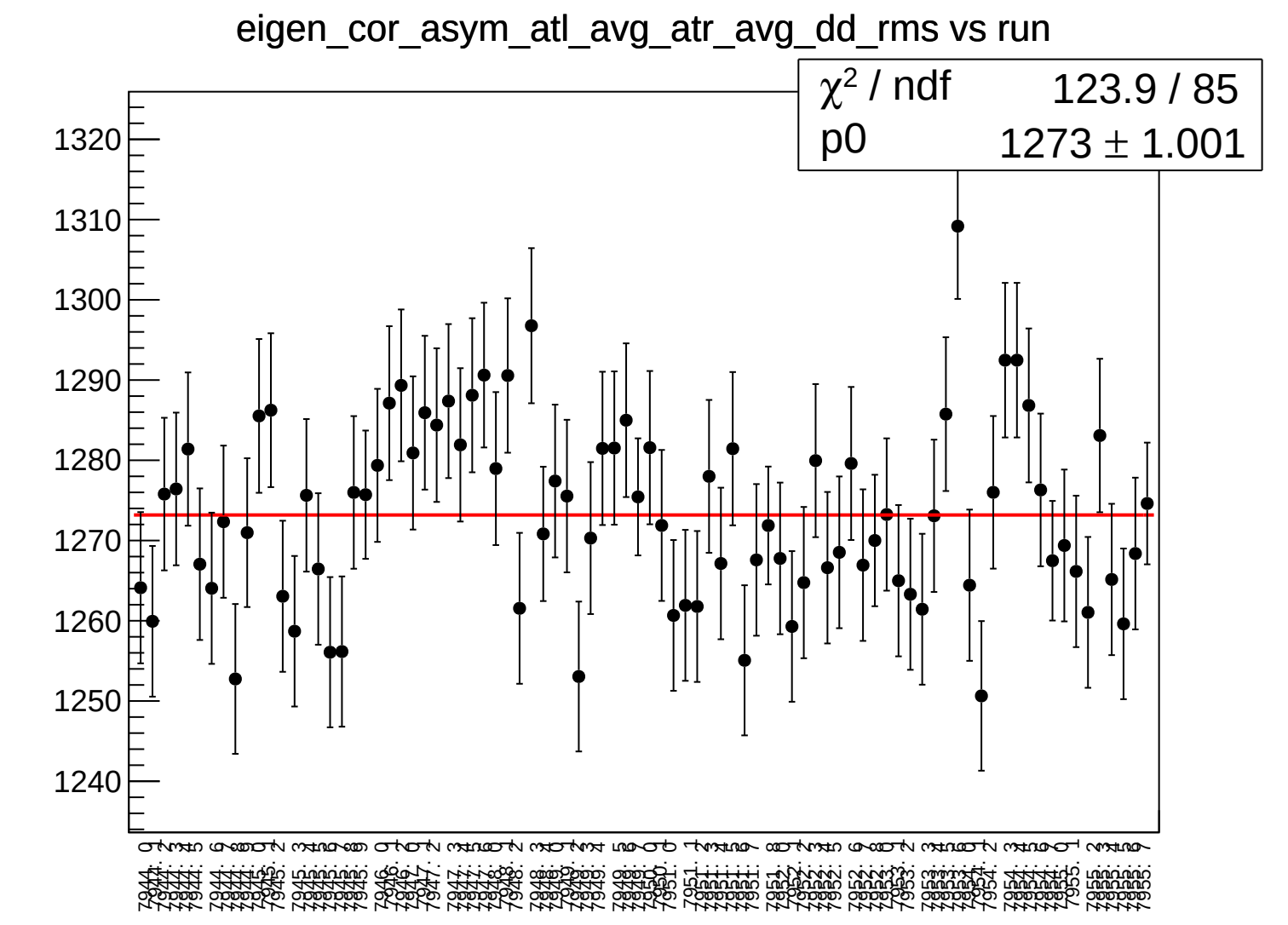

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 123.9 / 85
p0 1273 ± 1.001
1320
1310
1300
1290
1280
1270
1260
1250
1240

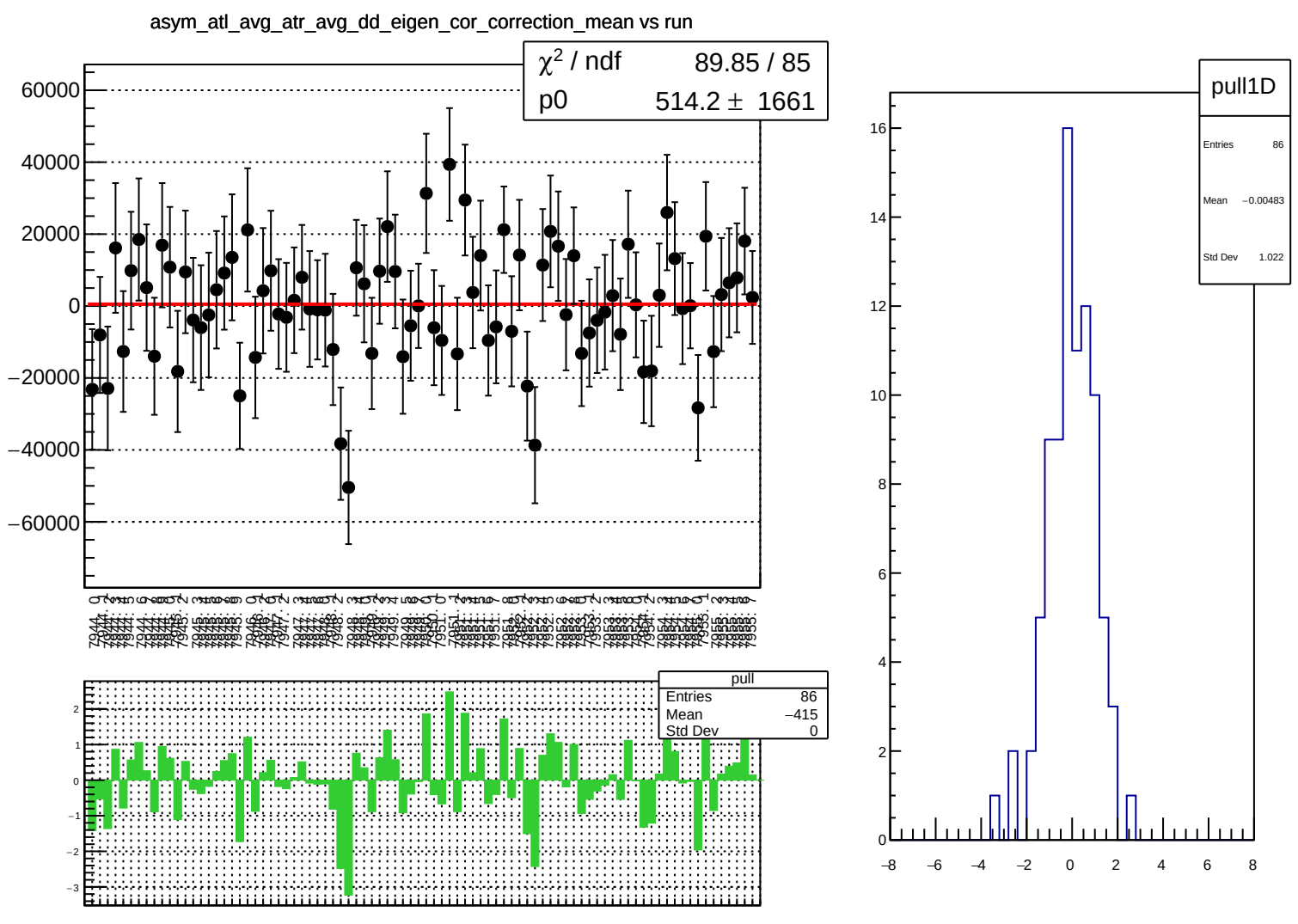

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 89.85 / 85
p0 514.2 ± 1661
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −415
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.00483
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

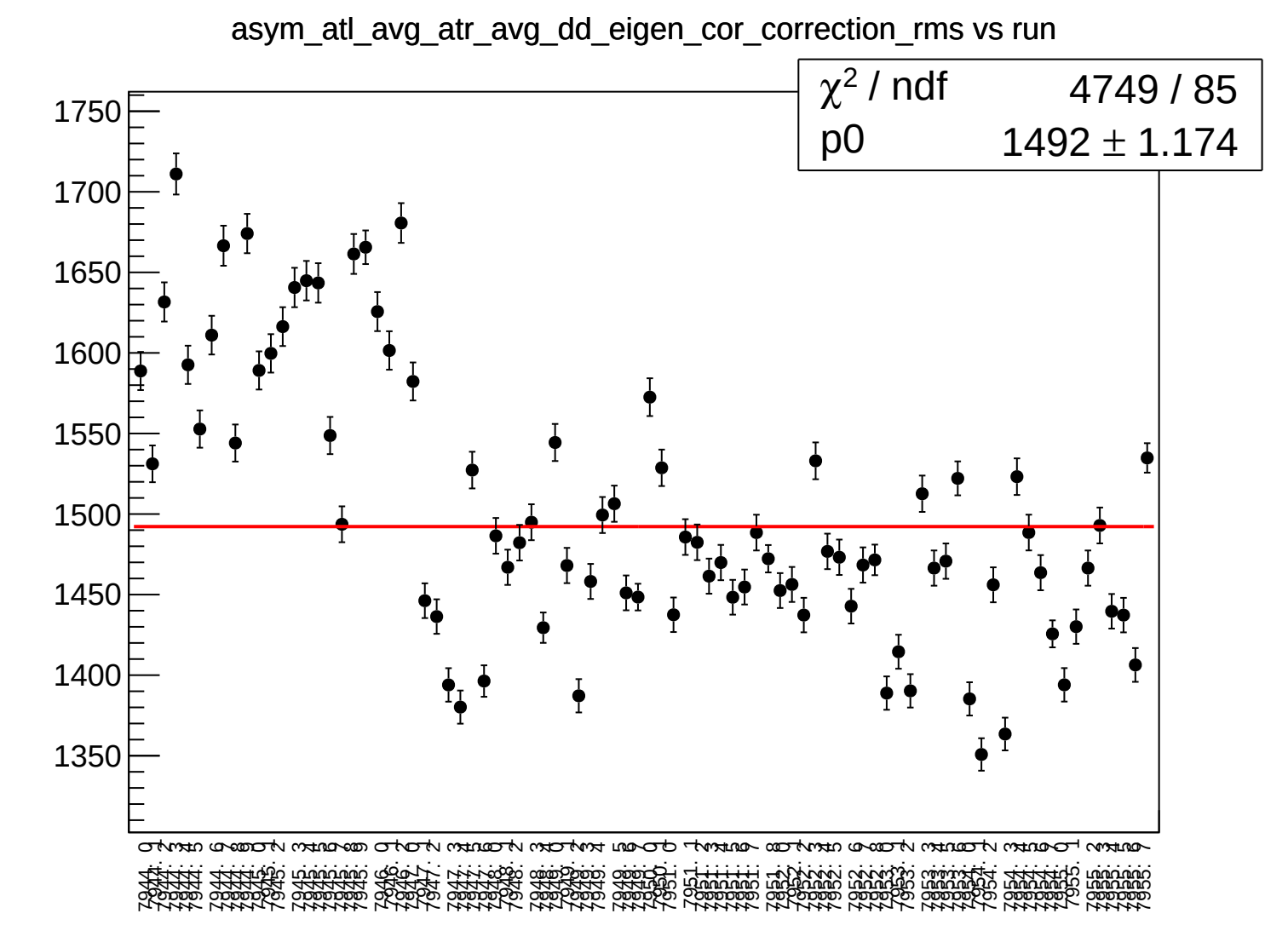

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 4749 / 85
p0 1492 ± 1.174
1750
1700
1650
1600
1550
1500
1450
1400
1350

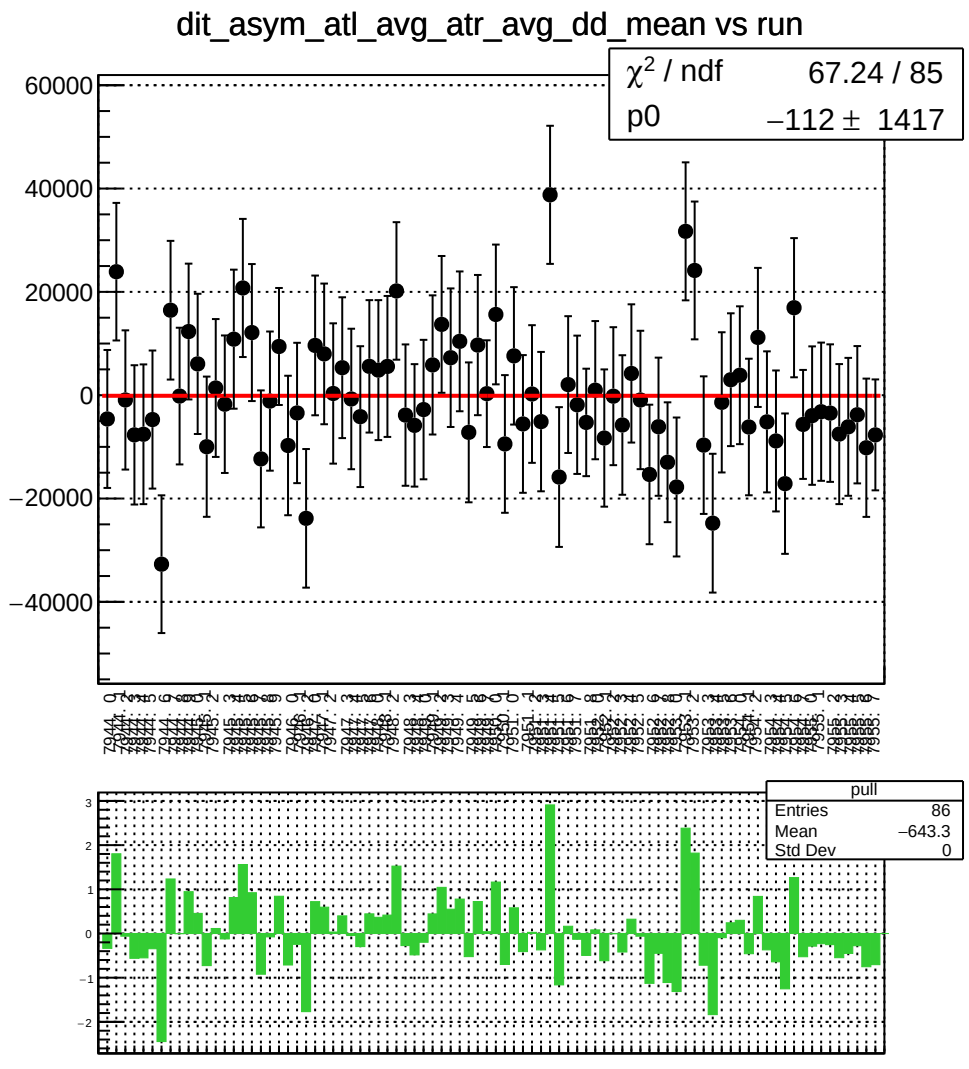

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 66.5 / 85
p0 −23.74 ± 1415
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −675.2
Std Dev 0
3
2
1
0
−1
−2

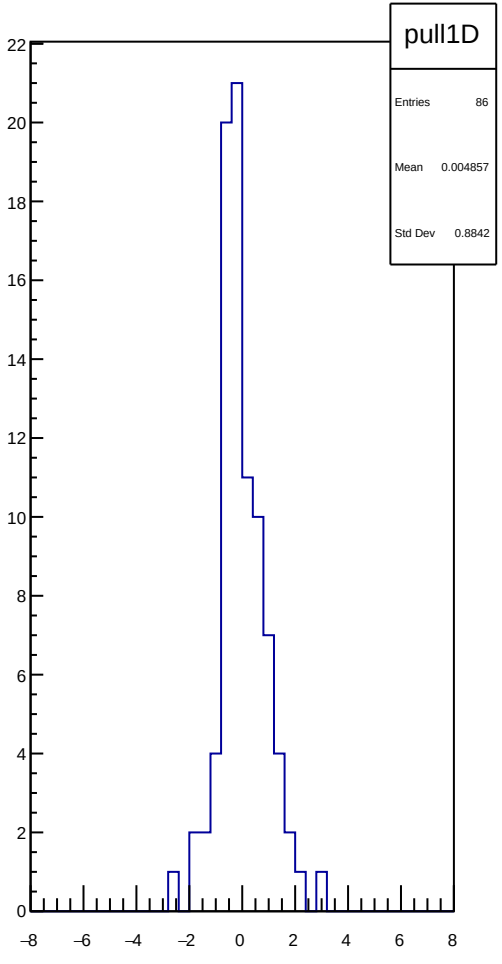

pull1D
Entries 86
Mean 0.004706
Std Dev 0.8793
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

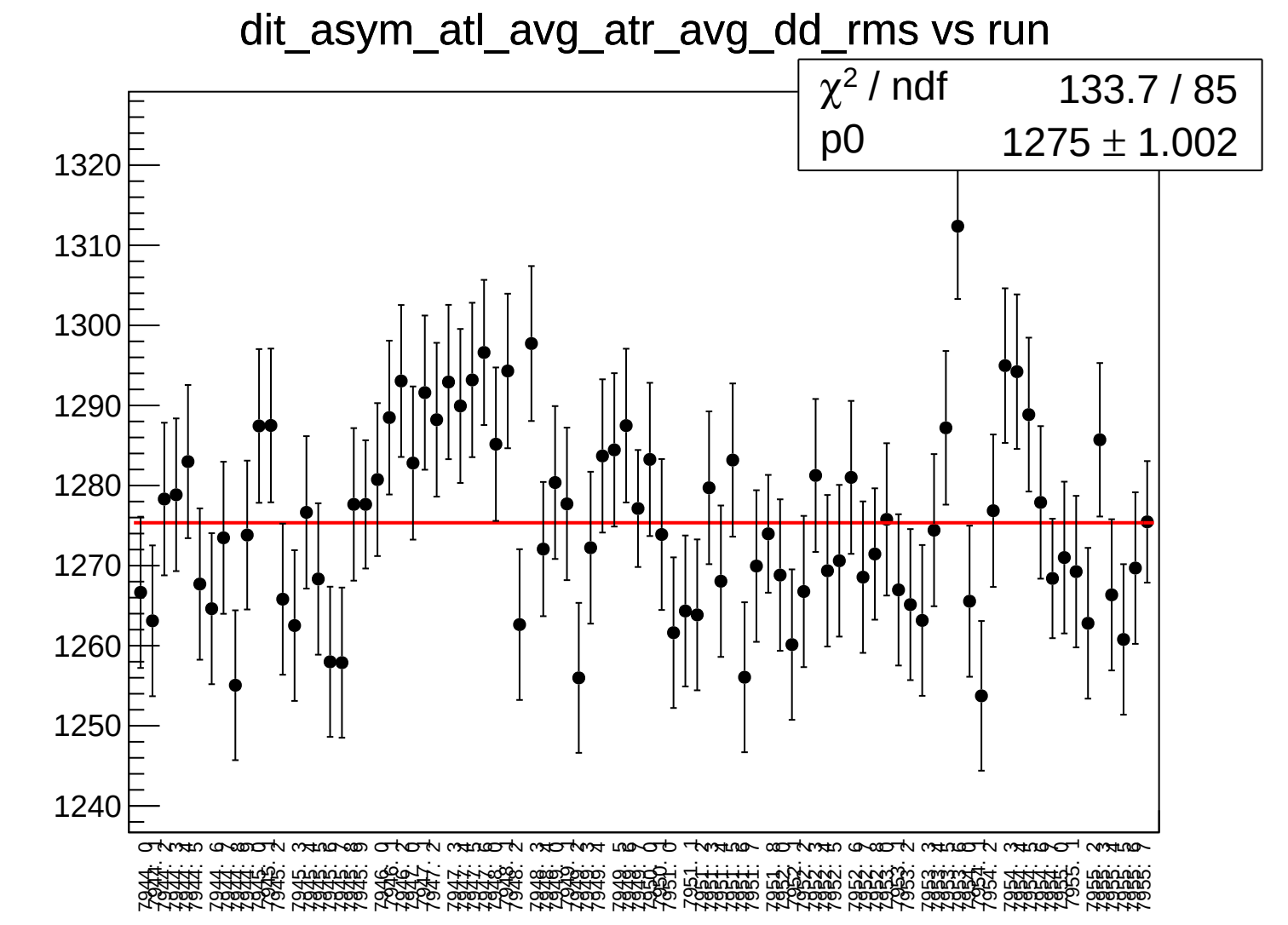

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 123.9 / 85
p0 1273 ± 1.001
1320
1310
1300
1290
1280
1270
1260
1250
1240

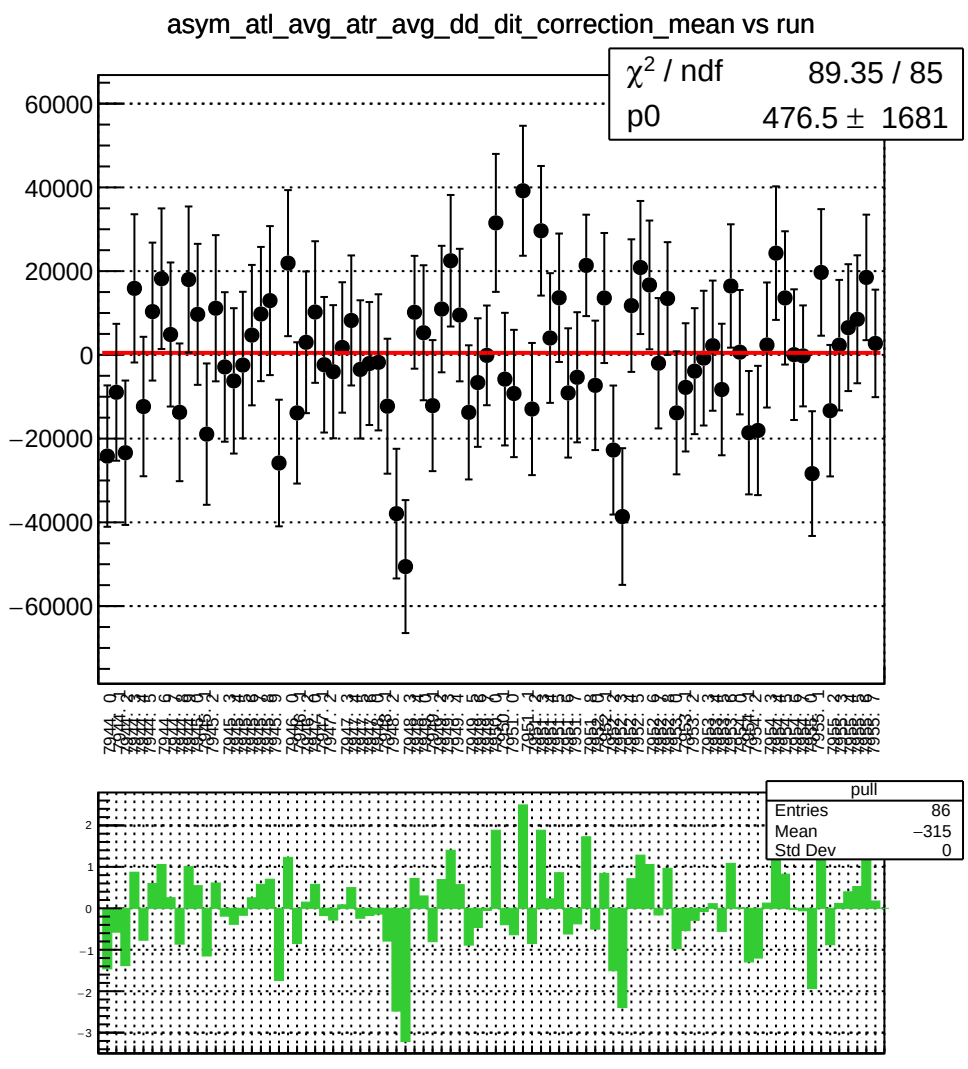

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.85 / 85
p0 514.2 ± 1661
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −415
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.00483
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

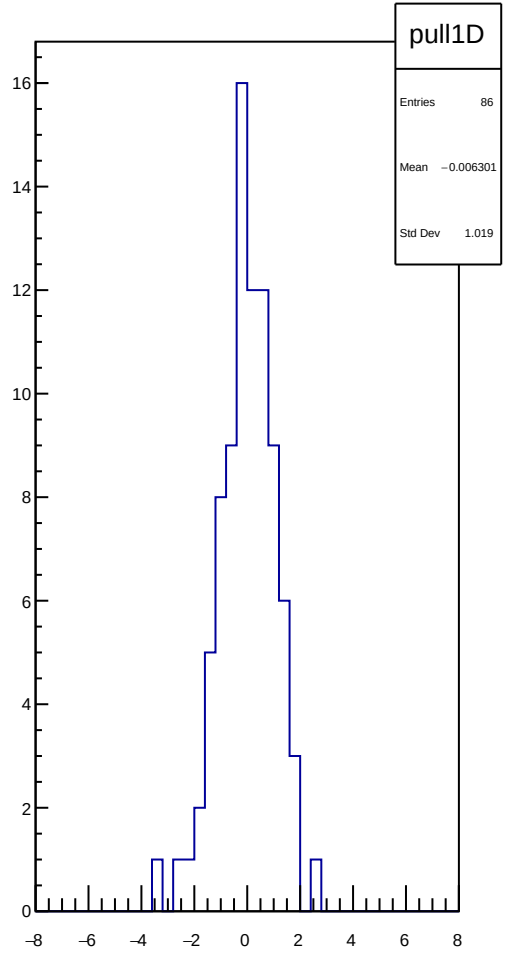

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4749 / 85
p0 1492 ± 1.174
1750
1700
1650
1600
1550
1500
1450
1400
1350

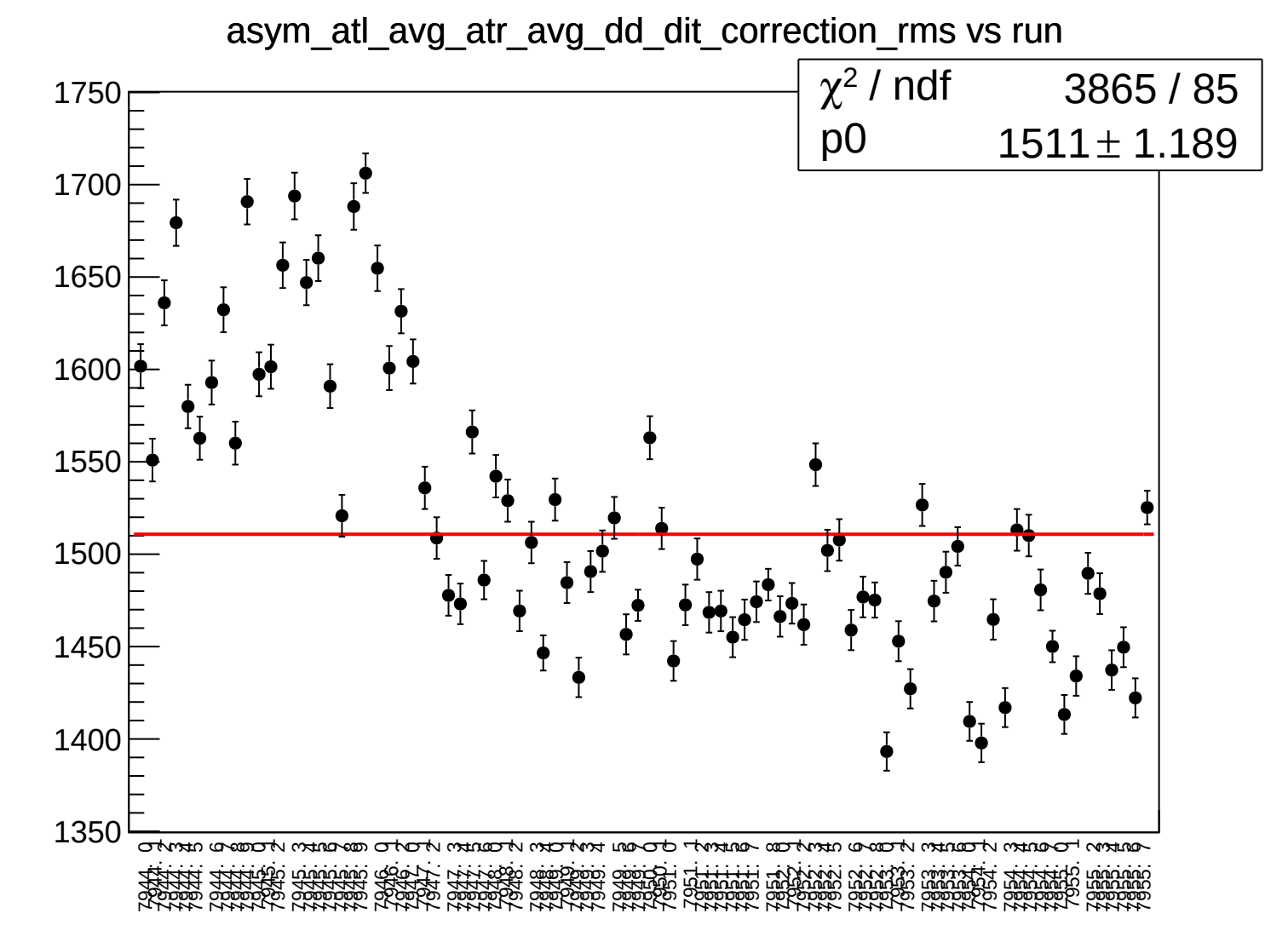

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 67.24 / 85
p0 −112 ± 1417
pull
Entries 86
Mean −643.3
Std Dev 0

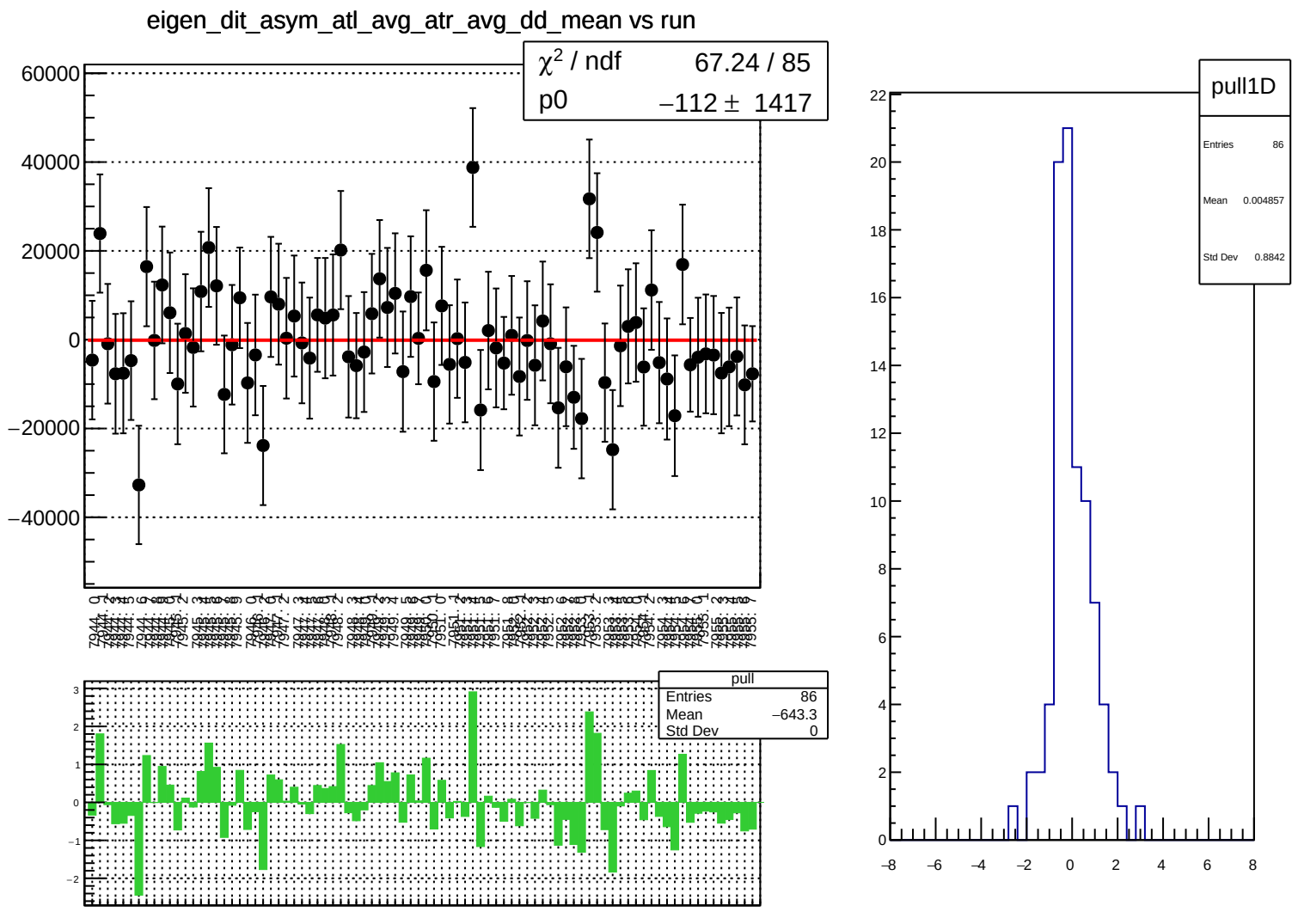

pull1D
Entries 86
Mean 0.004857
Std Dev 0.8842

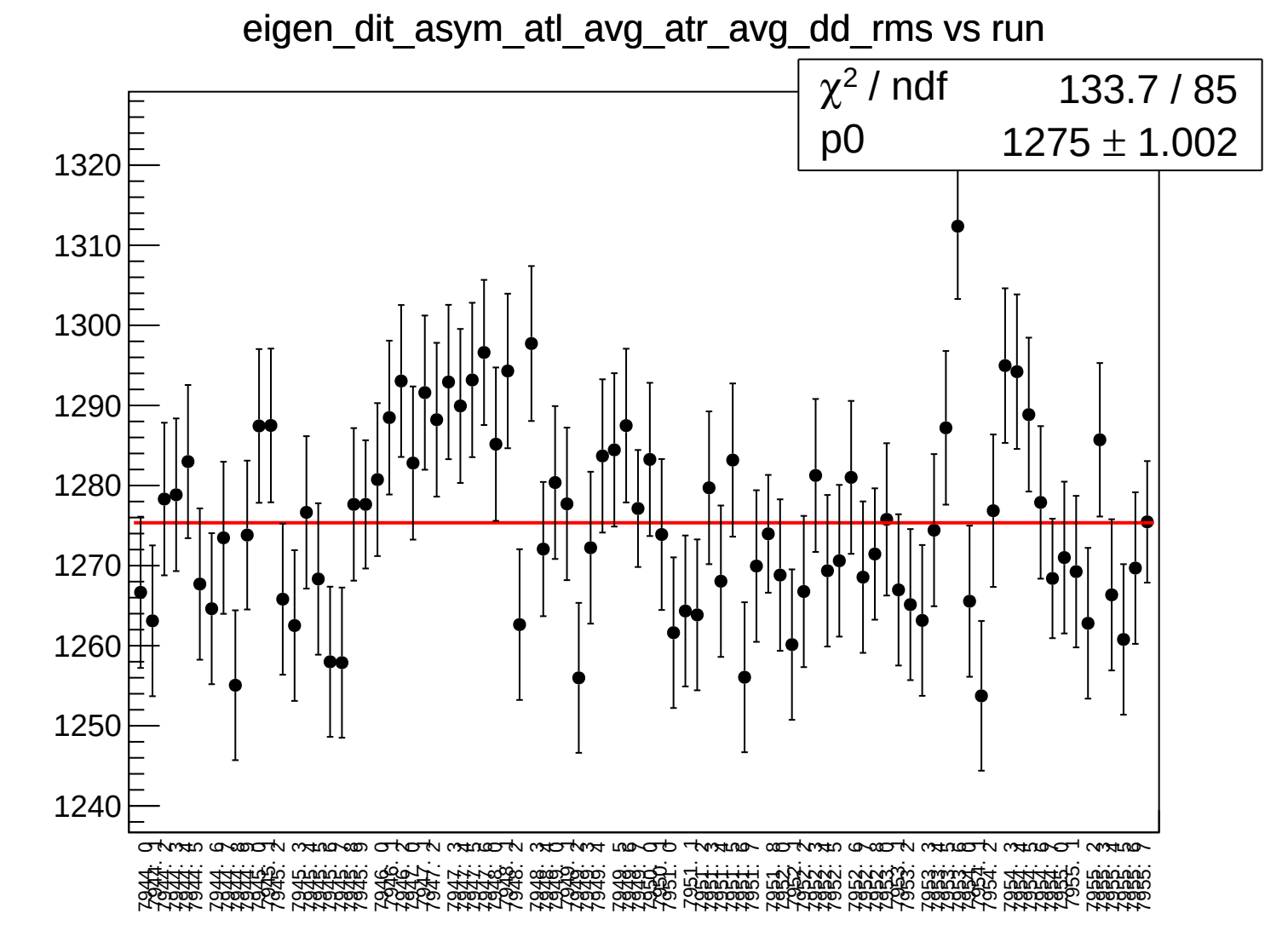

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 133.7 / 85
p0 1275 ± 1.002
1320
1310
1300
1290
1280
1270
1260
1250
1240

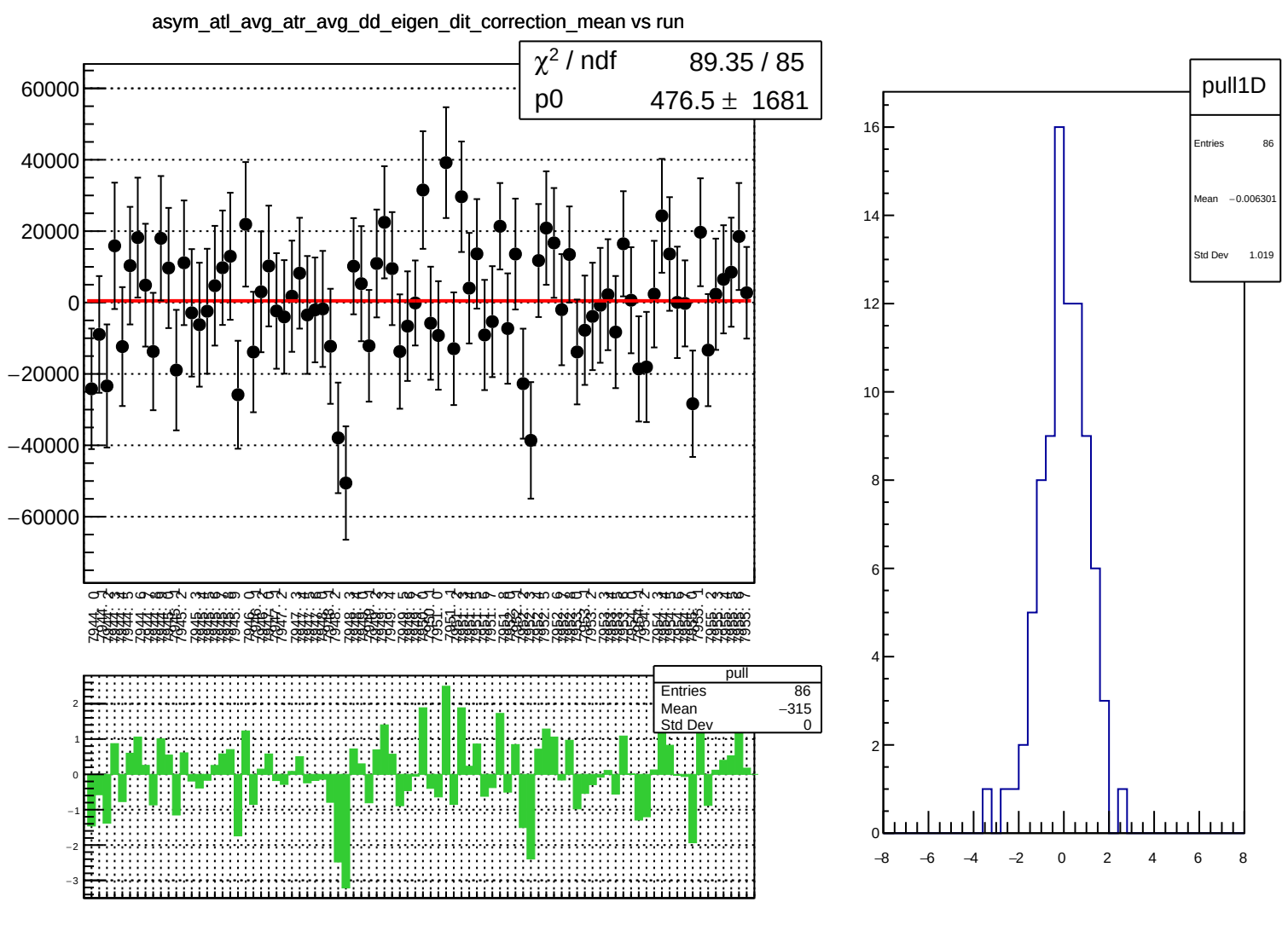

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 89.35 / 85
p0 476.5 ± 1681
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −315
Std Dev 0
2
1
0
−1
−2
−3

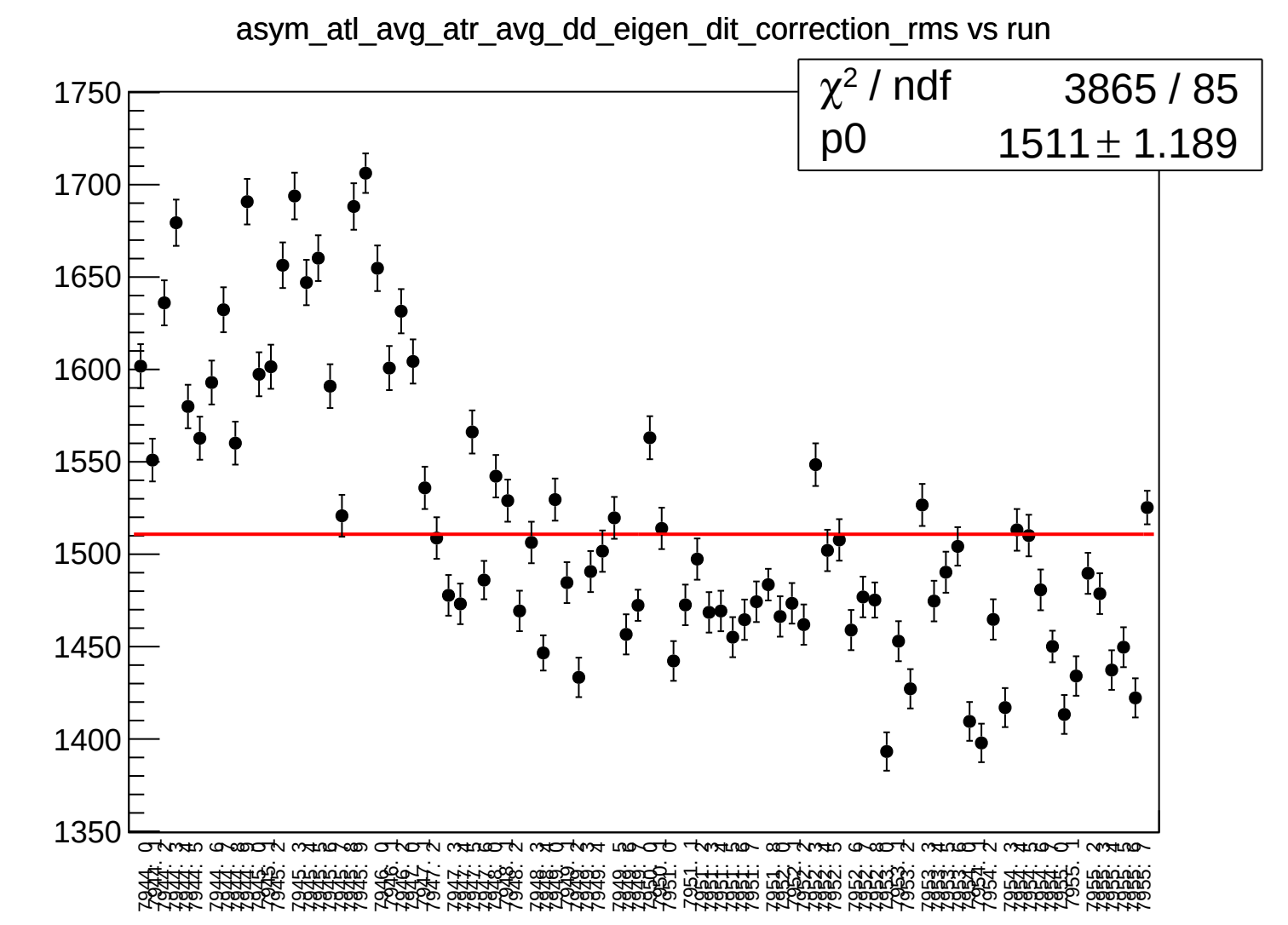

pull1D
Entries 86
Mean −0.006301
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

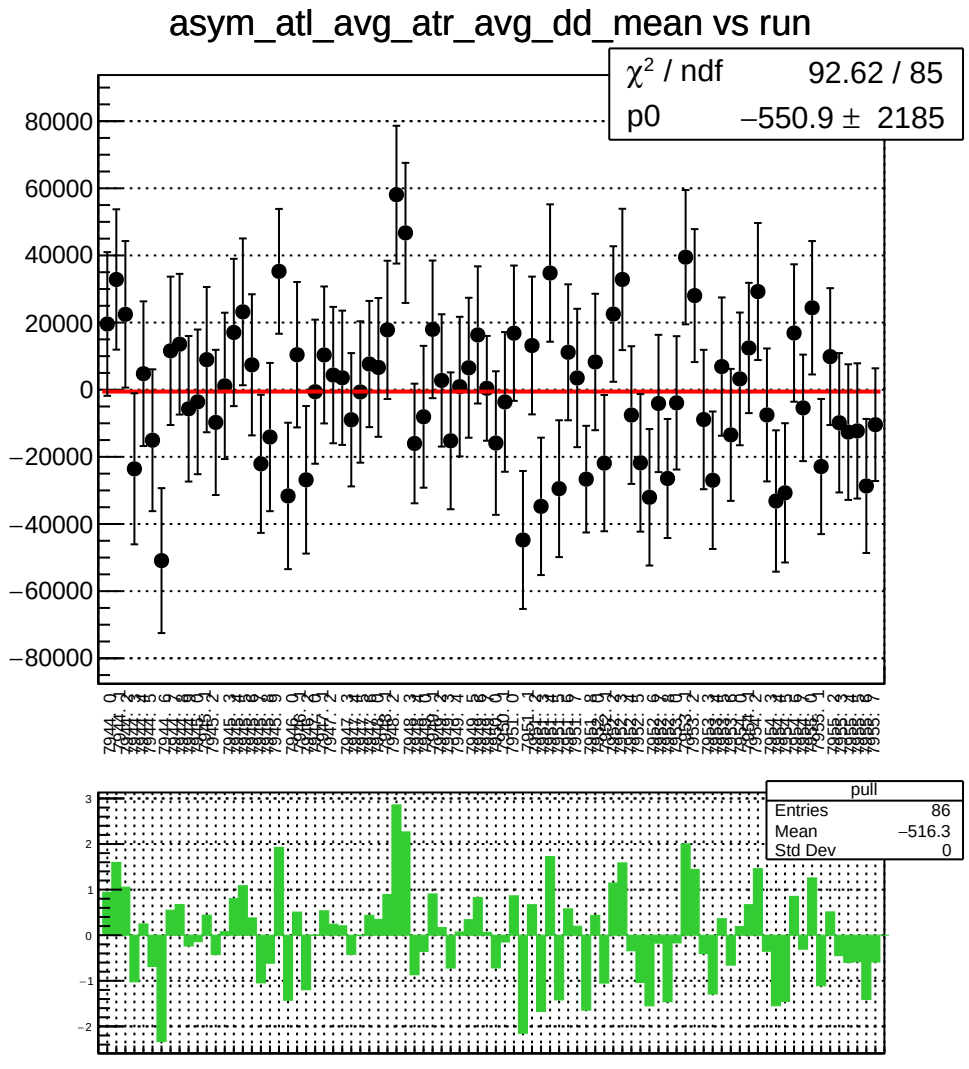

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 3865 / 85
p0 1511 ± 1.189
1750
1700
1650
1600
1550
1500
1450
1400
1350

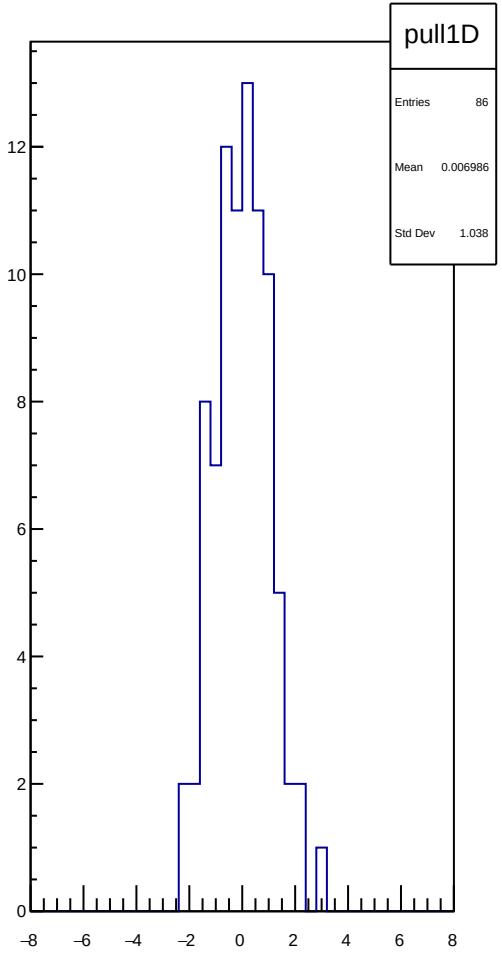

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 67.24 / 85
p0 −112 ± 1417
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −643.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.004857
Std Dev 0.8842
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

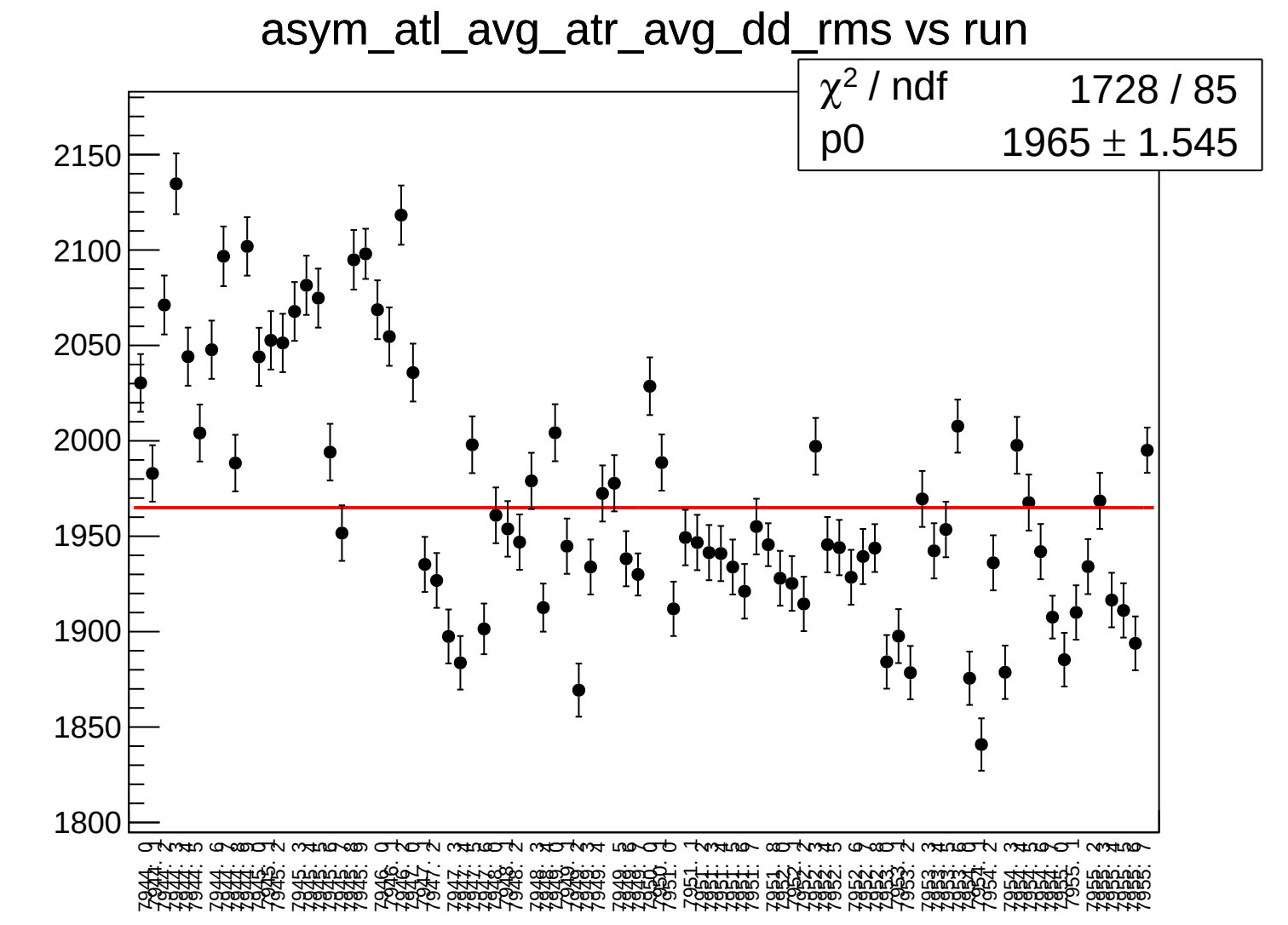

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 133.7 / 85
p0 1275 ± 1.002
1320
1310
1300
1290
1280
1270
1260
1250
1240

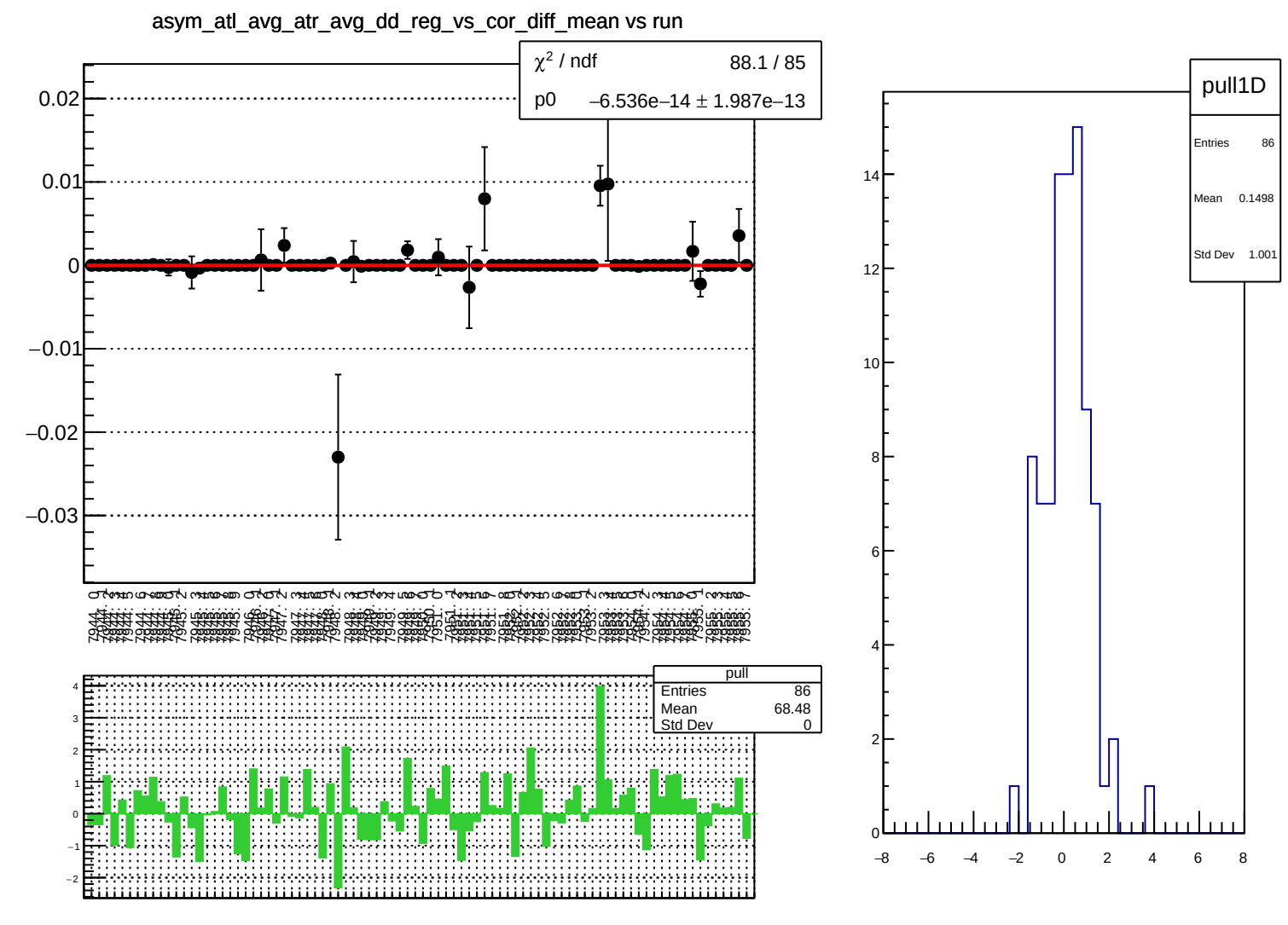

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.35 / 85
p0 476.5 ± 1681
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −315
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.006301
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

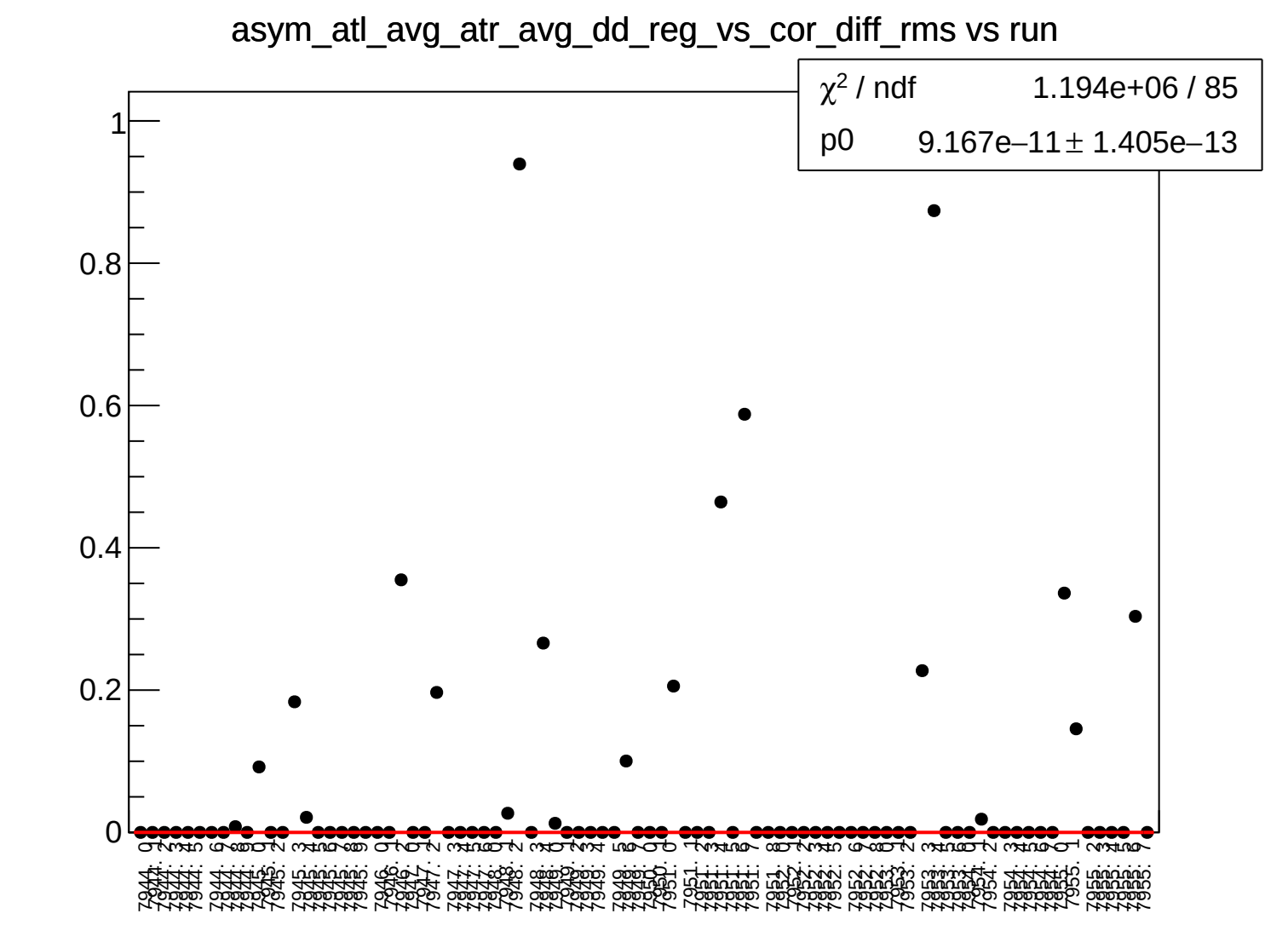

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3865 / 85
p0 1511 ± 1.189
1750
1700
1650
1600
1550
1500
1450
1400
1350

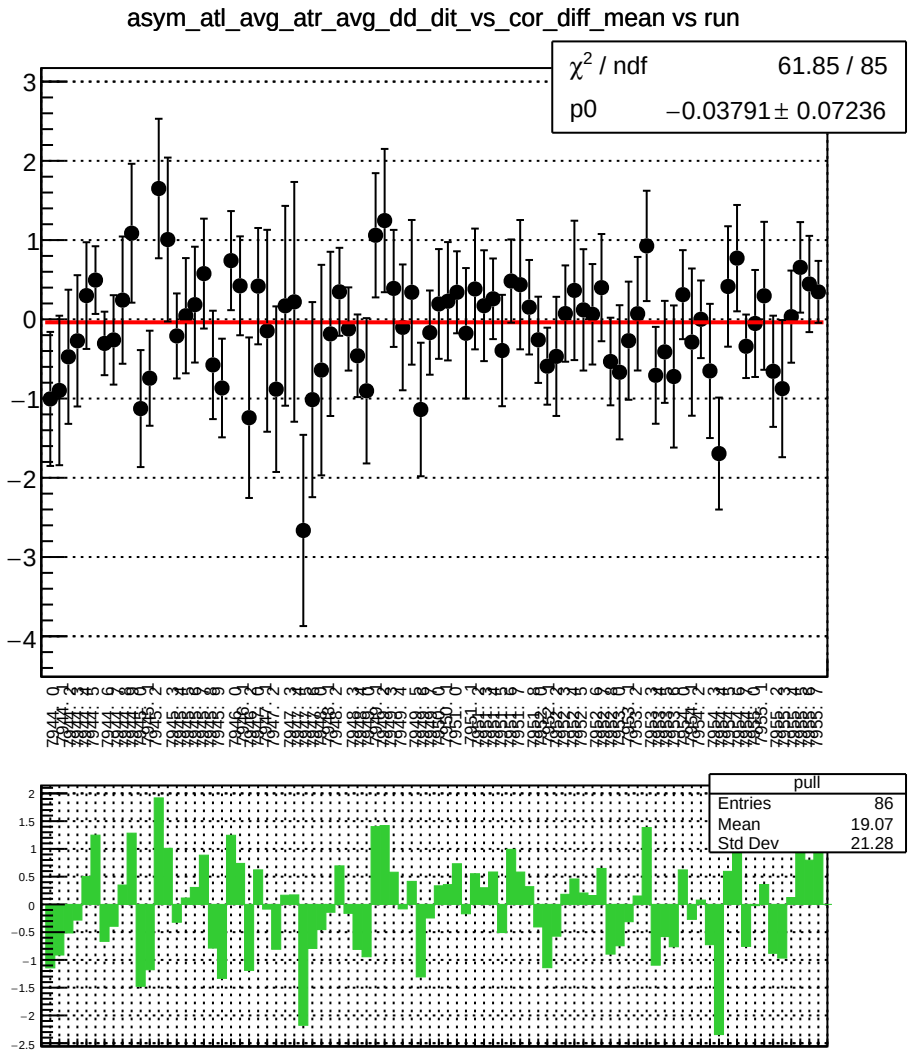

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.62 / 85
p0 −550.9 ± 2185
pull
Entries 86
Mean −516.3
Std Dev 0

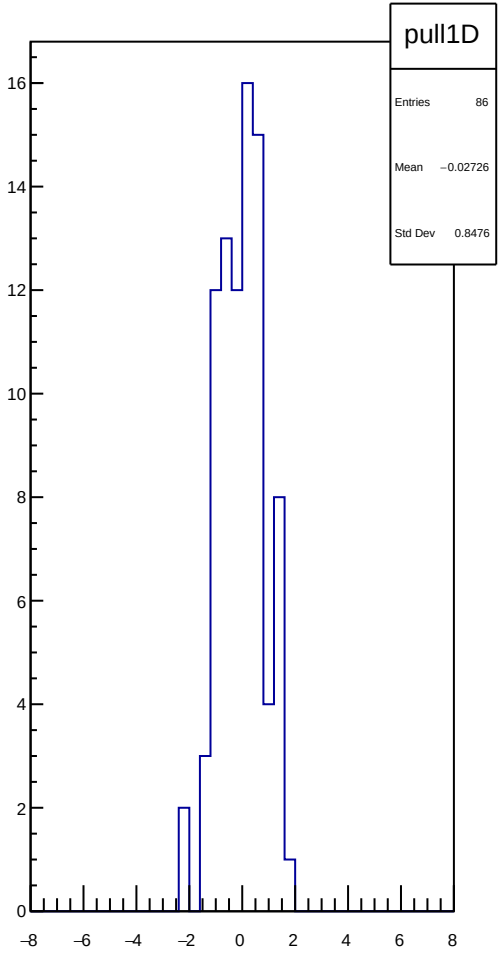

pull1D
Entries 86
Mean 0.006986
Std Dev 1.038

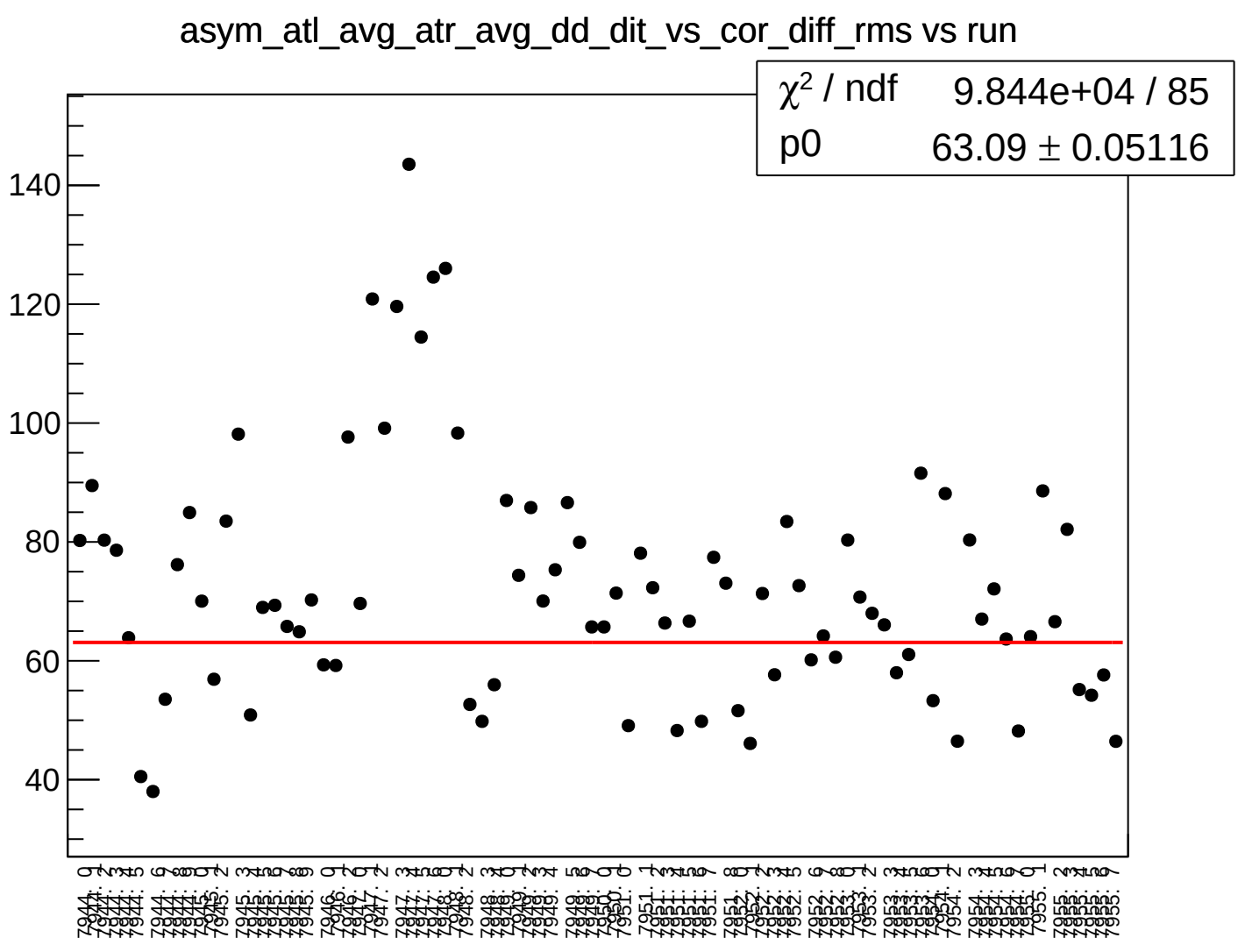

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1728 / 85
p0 1965 ± 1.545
2150
2100
2050
2000
1950
1900
1850
1800

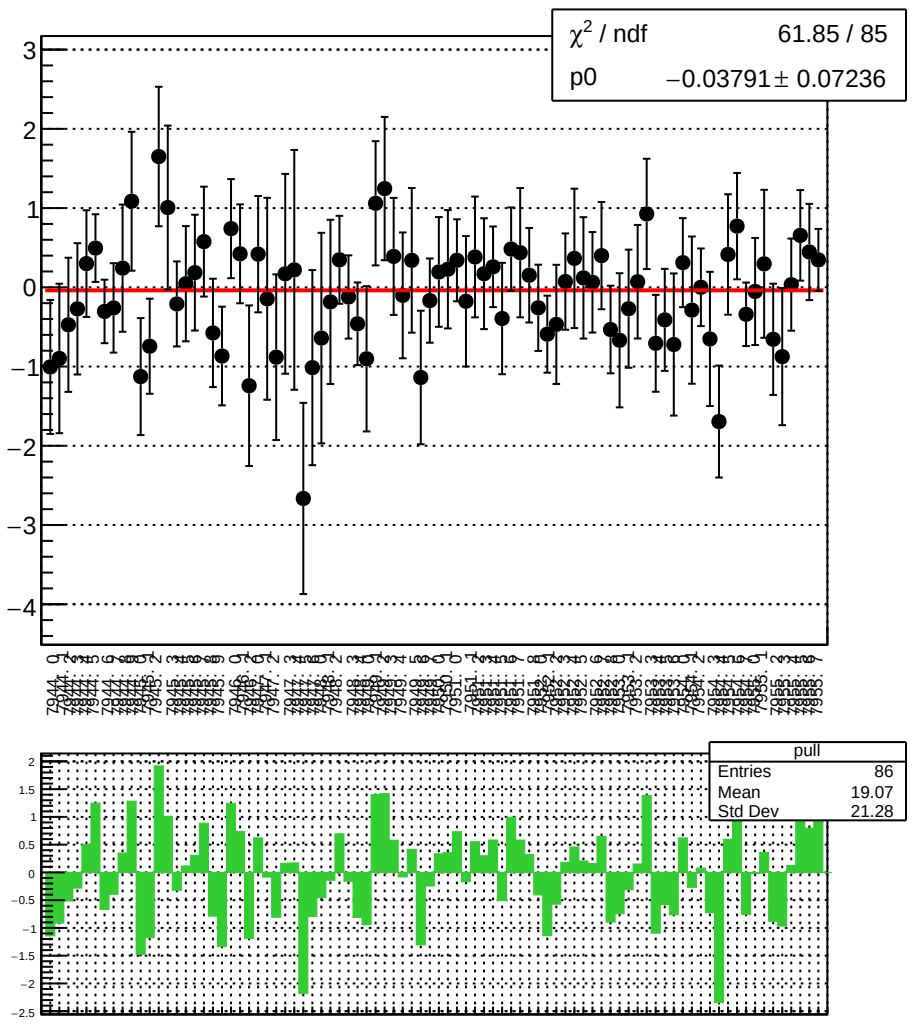

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.1 / 85
p0 −6.536e−14 ± 1.987e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 68.48
Std Dev 0
pull1D
Entries 86
Mean 0.1498
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

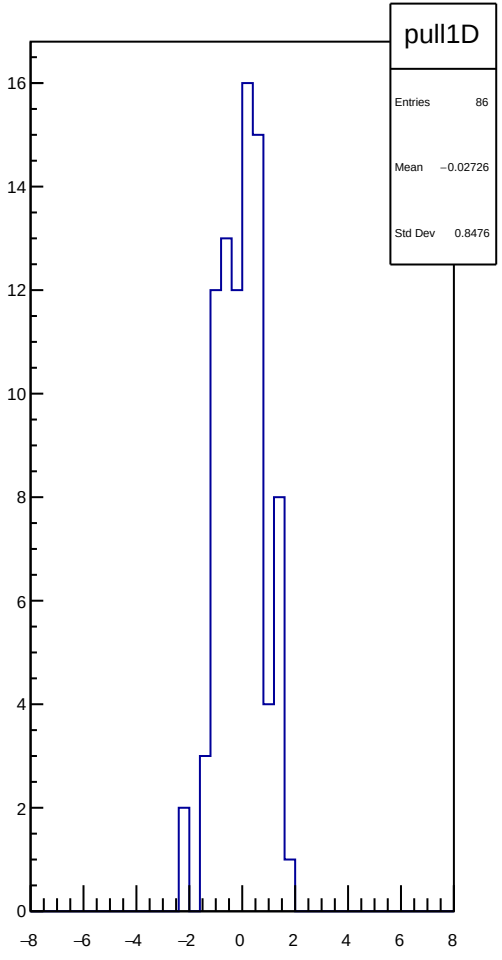

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.194e+06 / 85
p0 9.167e−11 ± 1.405e−13
1
0.8
0.6
0.4
0.2
0

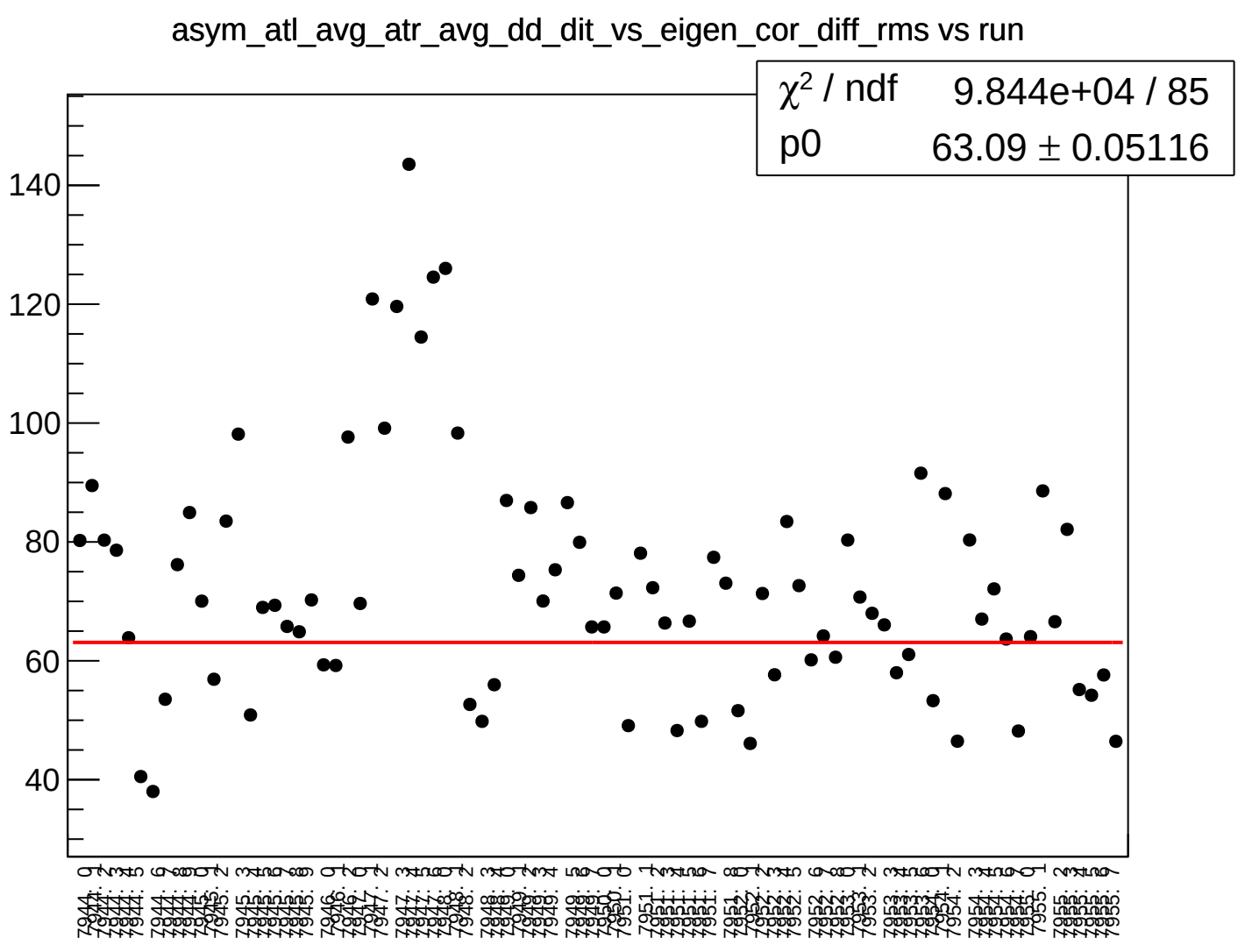

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.85 / 85
p0 −0.03791 ± 0.07236
pull
Entries 86
Mean 19.07
Std Dev 21.28

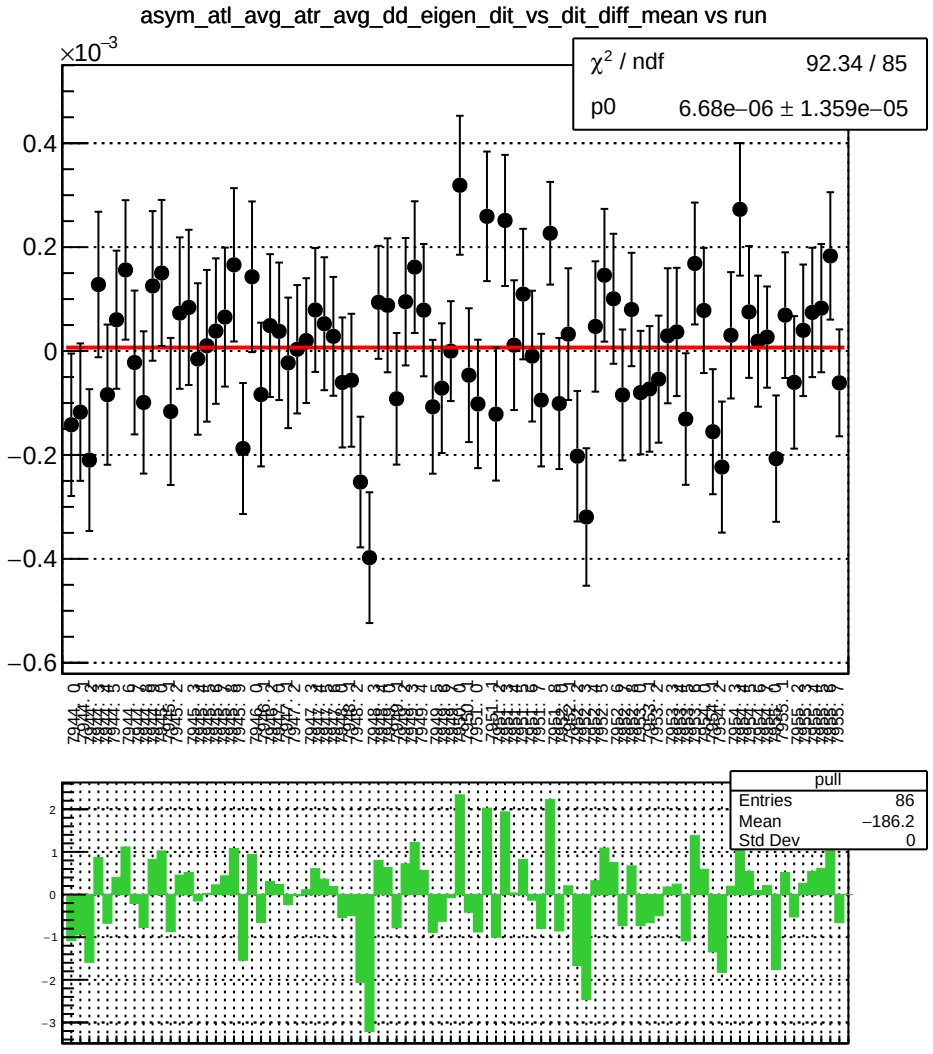

pull1D
Entries 86
Mean −0.02726
Std Dev 0.8476

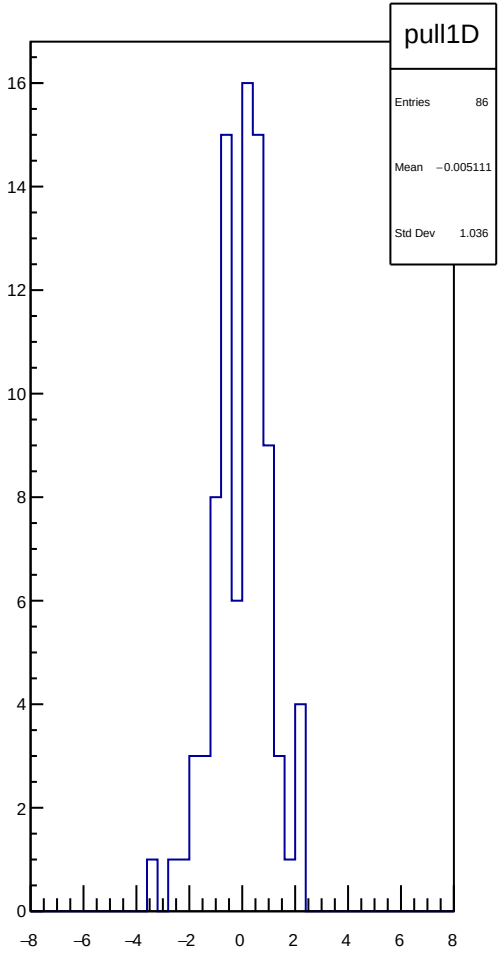

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.844e+04 / 85
p0 63.09 ± 0.05116
140
120
100
80
60
40

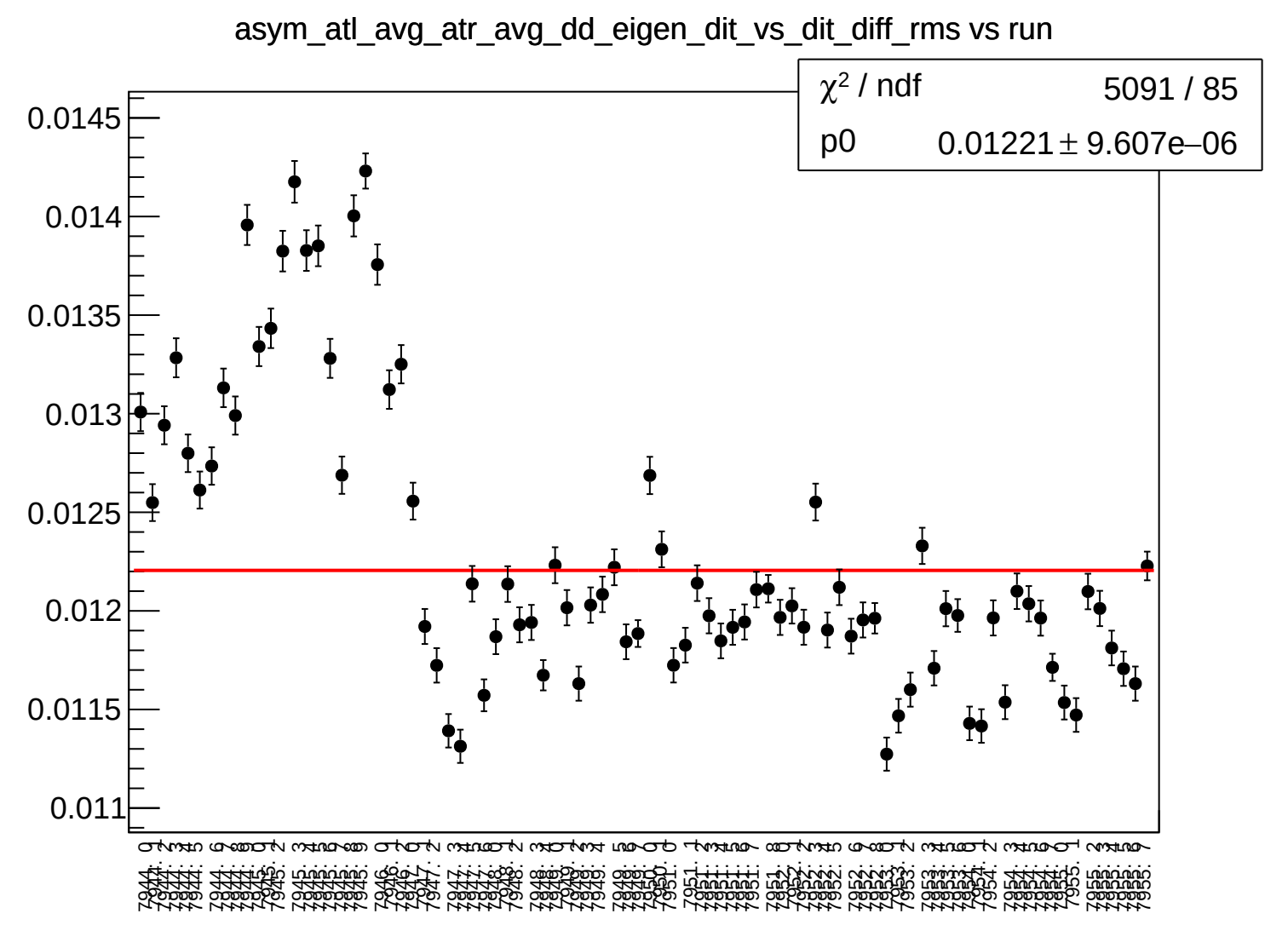

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.85 / 85
p0 −0.03791 ± 0.07236
pull
Entries 86
Mean 19.07
Std Dev 21.28

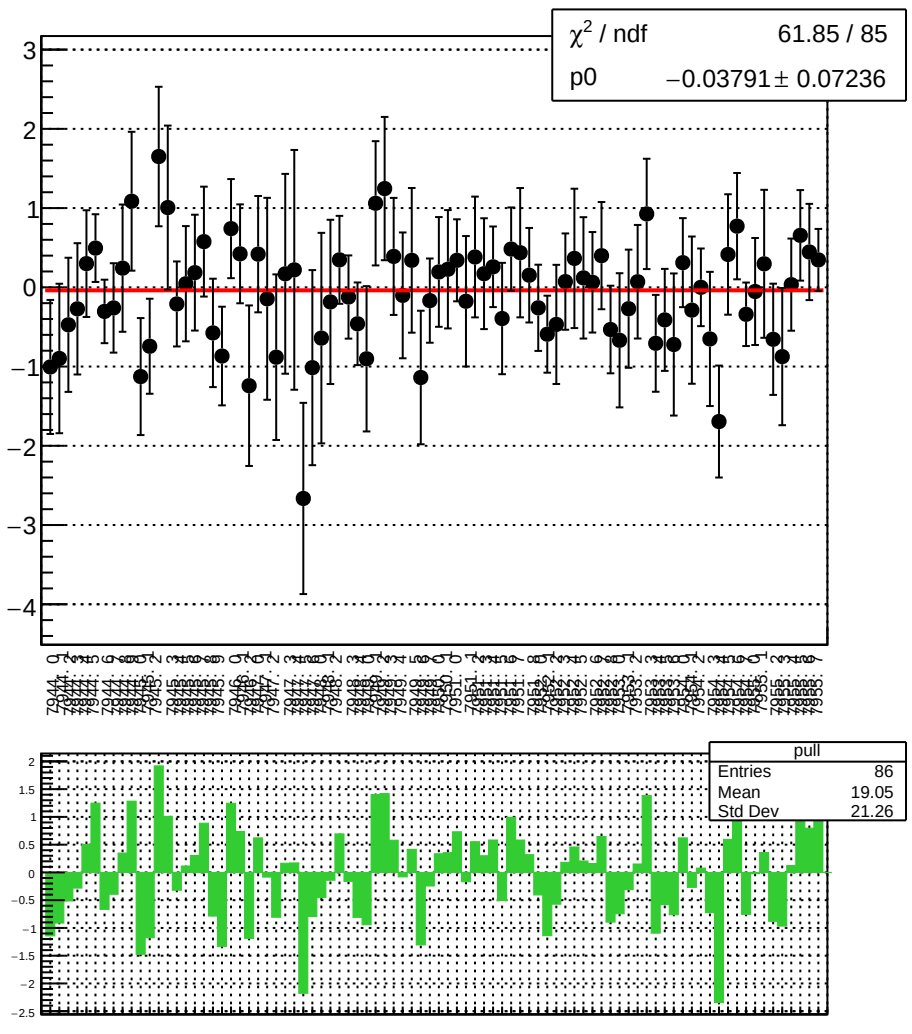

pull1D
Entries 86
Mean −0.02726
Std Dev 0.8476

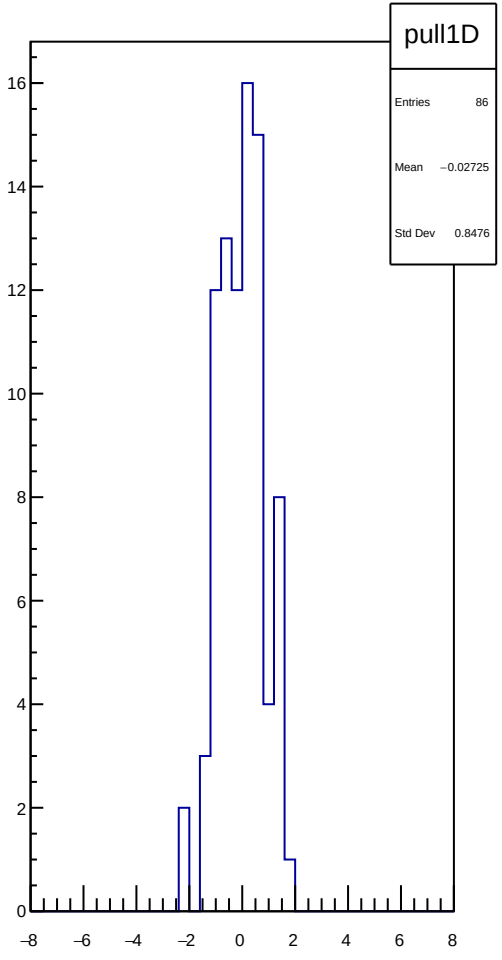

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.844e+04 / 85
p0 63.09 ± 0.05116
140
120
100
80
60
40

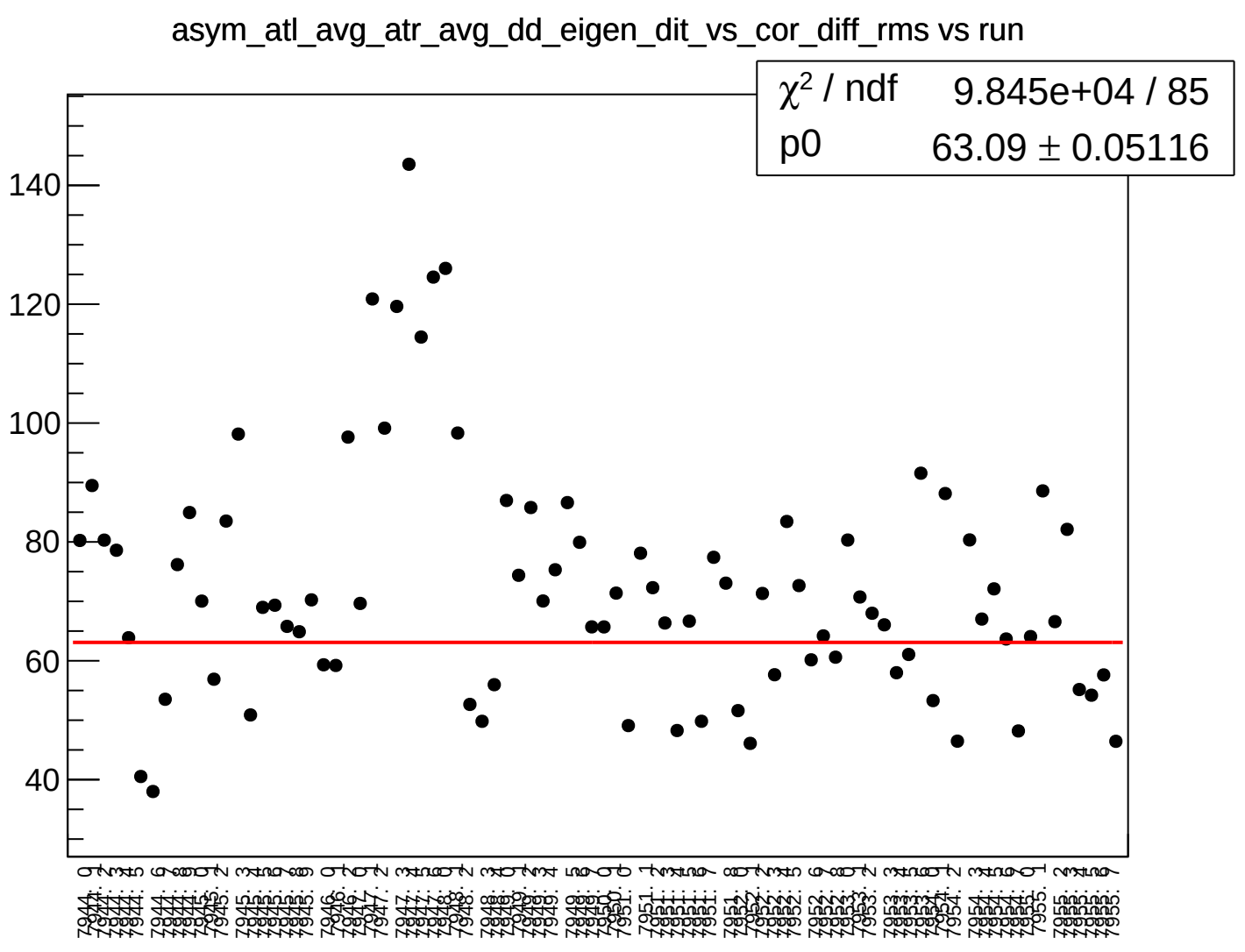

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.34 / 85
p0 6.68e−06 ± 1.359e−05
pull
Entries 86
Mean −186.2
Std Dev 0

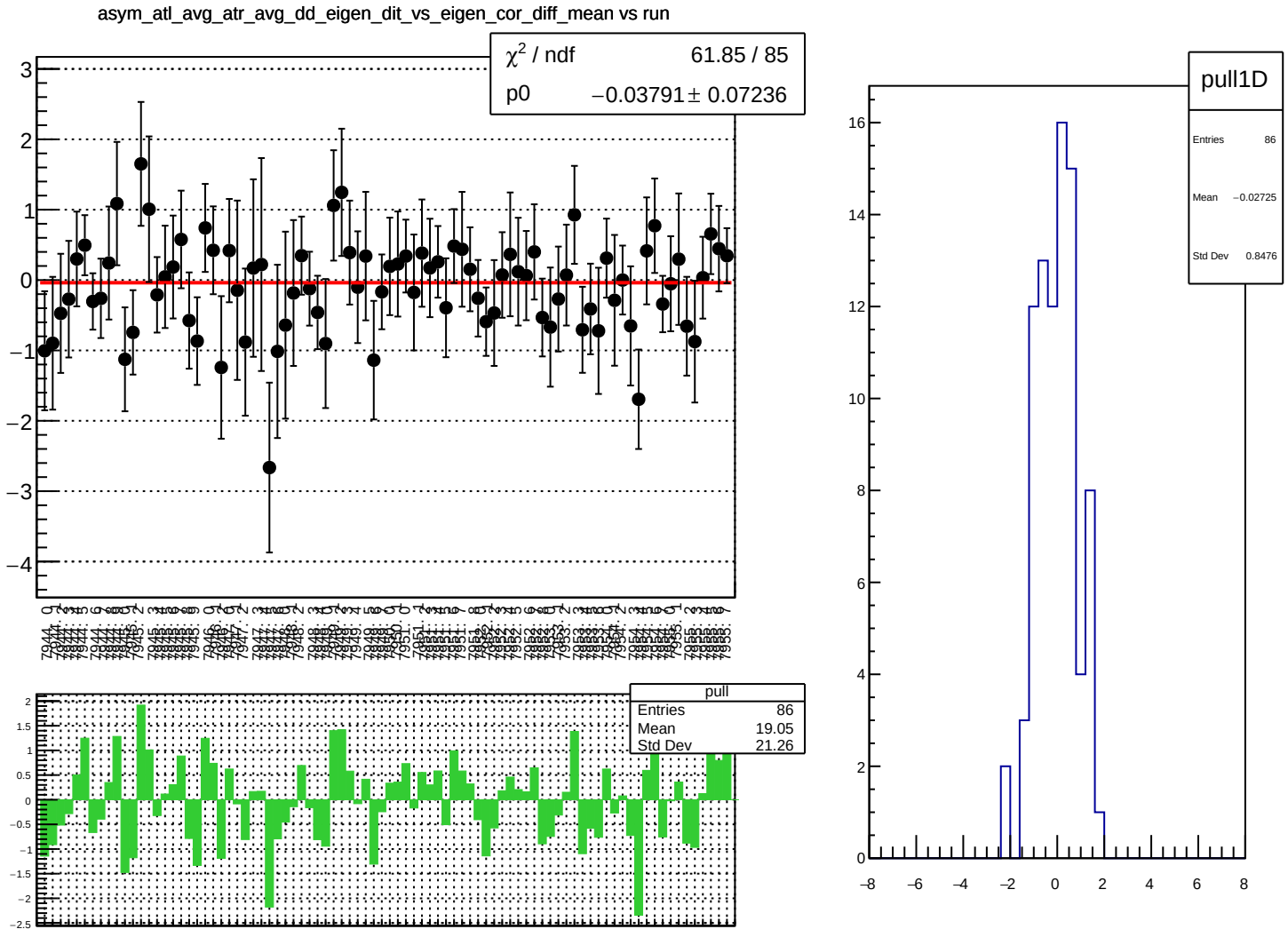

pull1D
Entries 86
Mean −0.005111
Std Dev 1.036

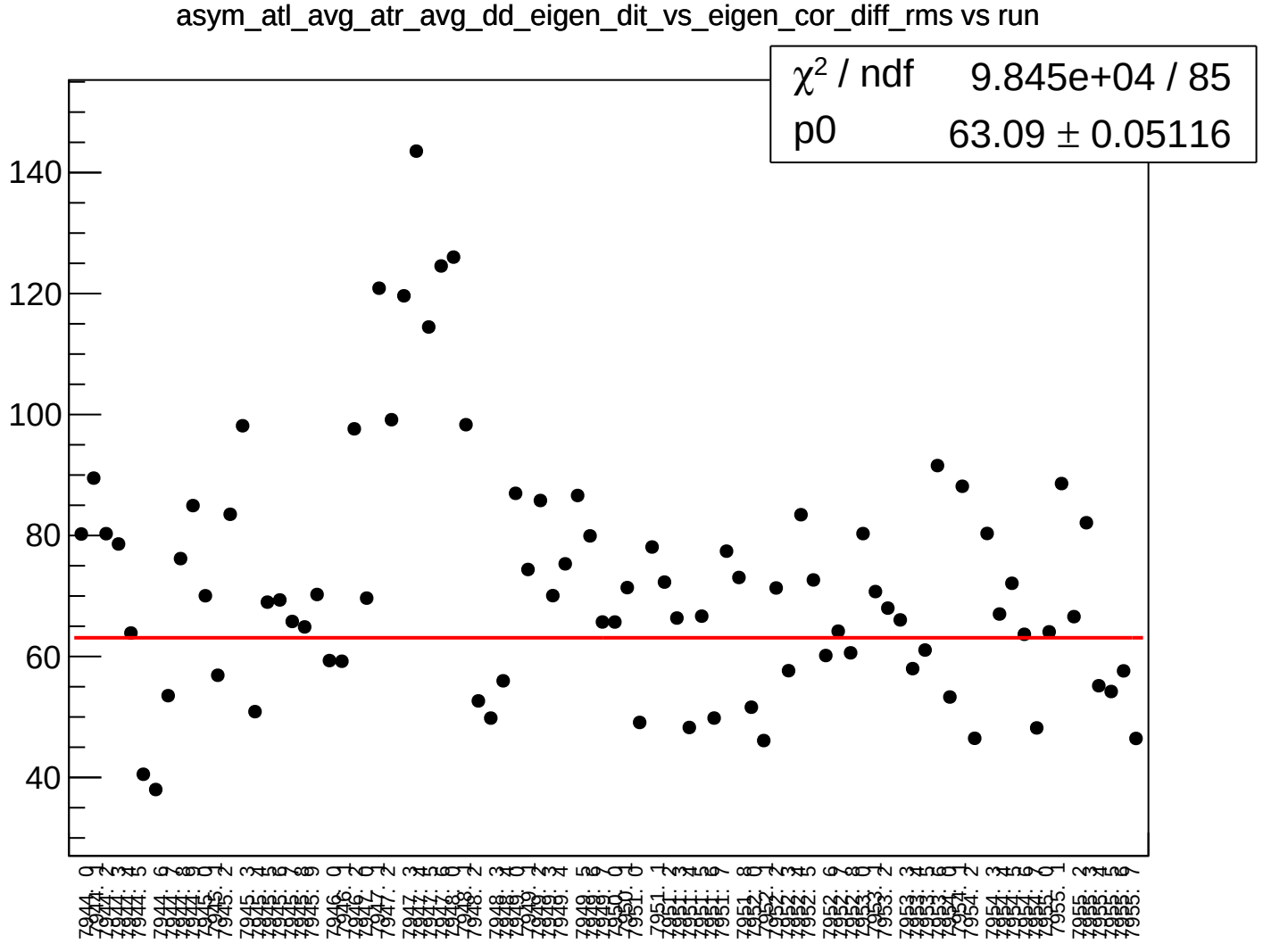

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5091 / 85
p0 0.01221 ± 9.607e−06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011

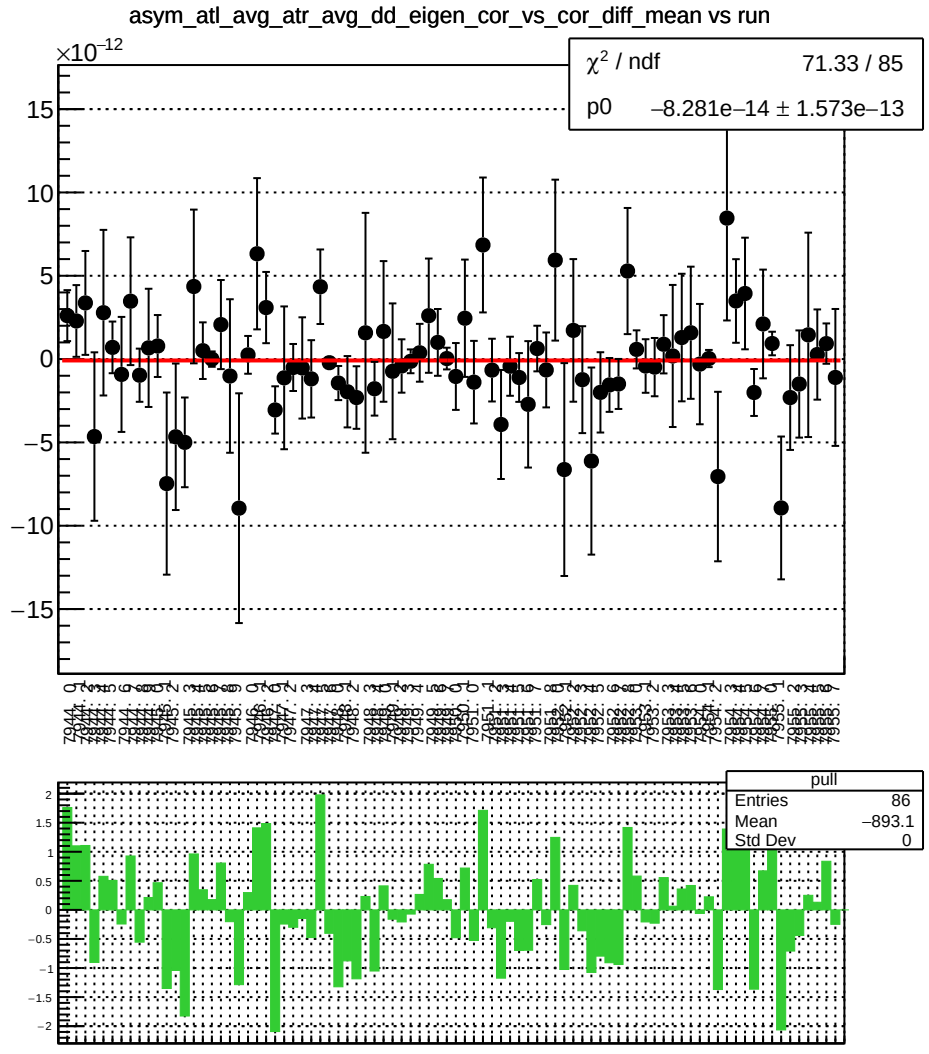

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.85 / 85
p0 −0.03791 ± 0.07236
pull
Entries 86
Mean 19.05
Std Dev 21.26

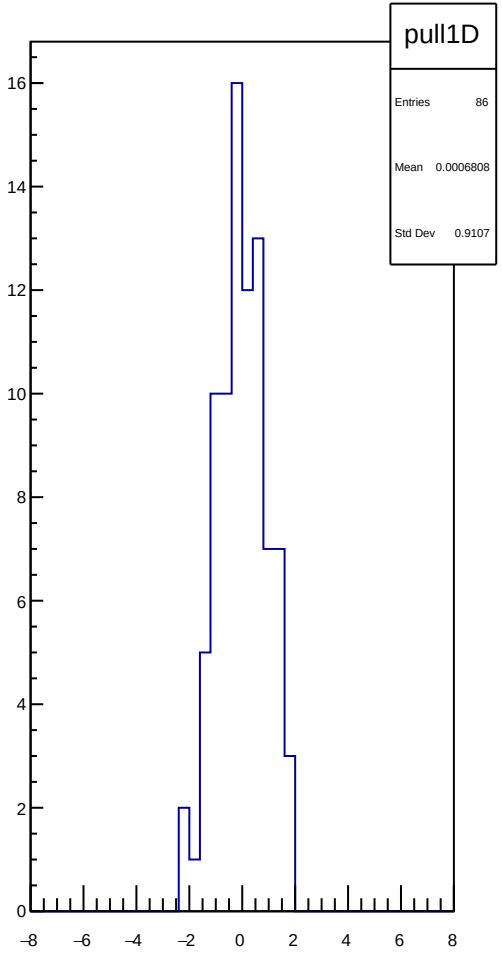

pull1D
Entries 86
Mean −0.02725
Std Dev 0.8476

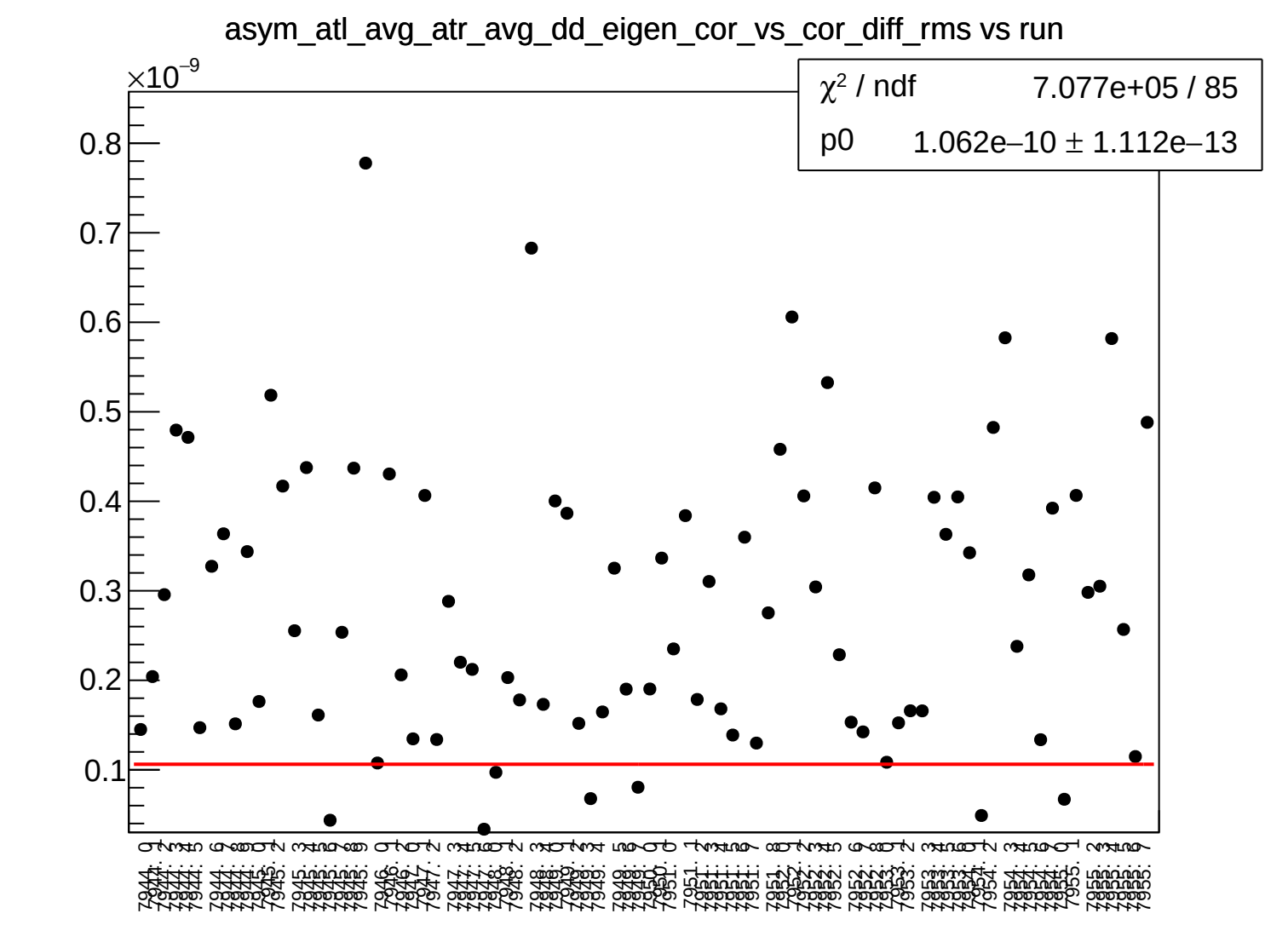

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.845e+04 / 85
p0 63.09 ± 0.05116
140
120
100
80
60
40

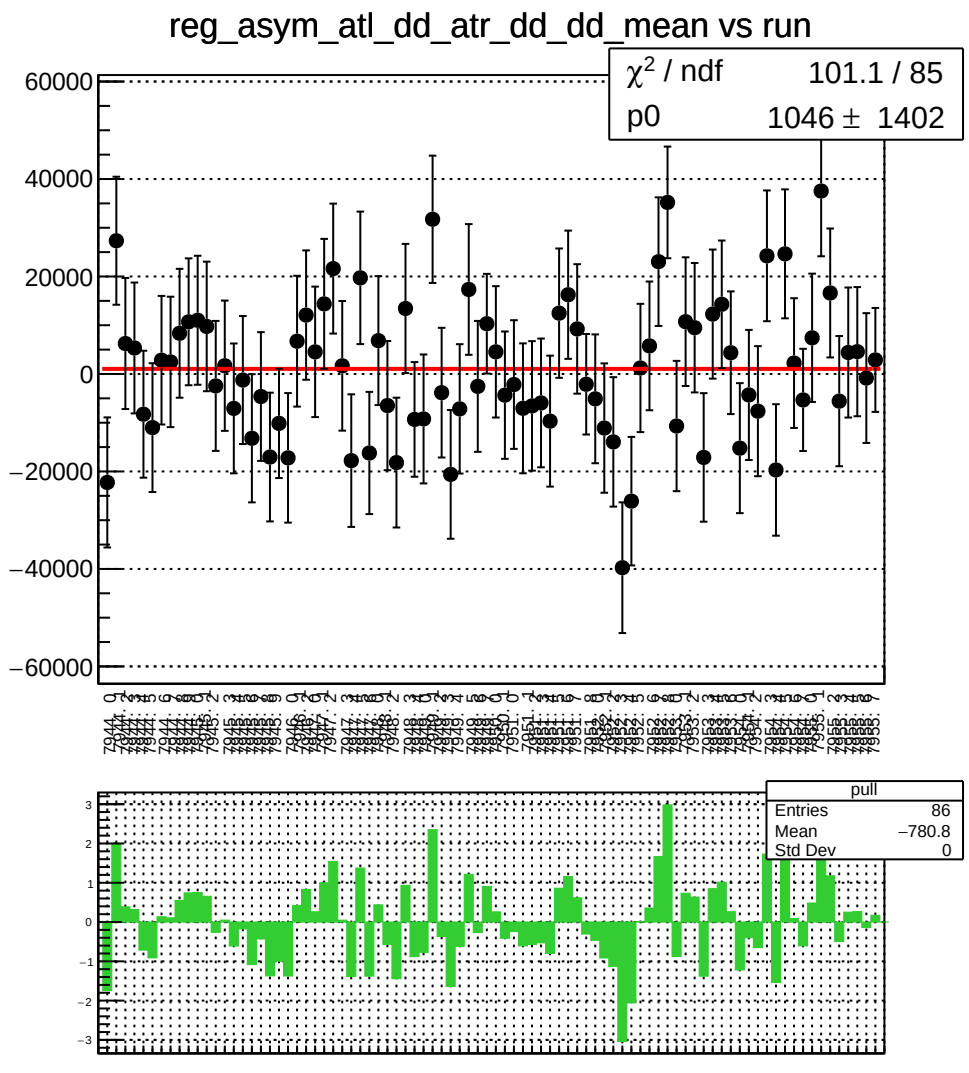

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.85 / 85
p0 −0.03791 ± 0.07236
pull
Entries 86
Mean 19.05
Std Dev 21.26
pull1D
Entries 86
Mean −0.02725
Std Dev 0.8476

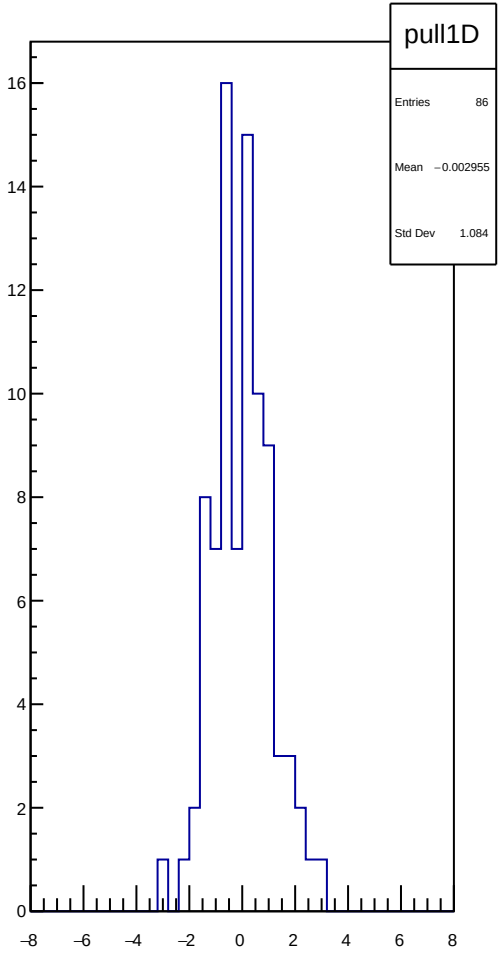

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.845e+04 / 85
p0 63.09 ± 0.05116
140
120
100
80
60
40

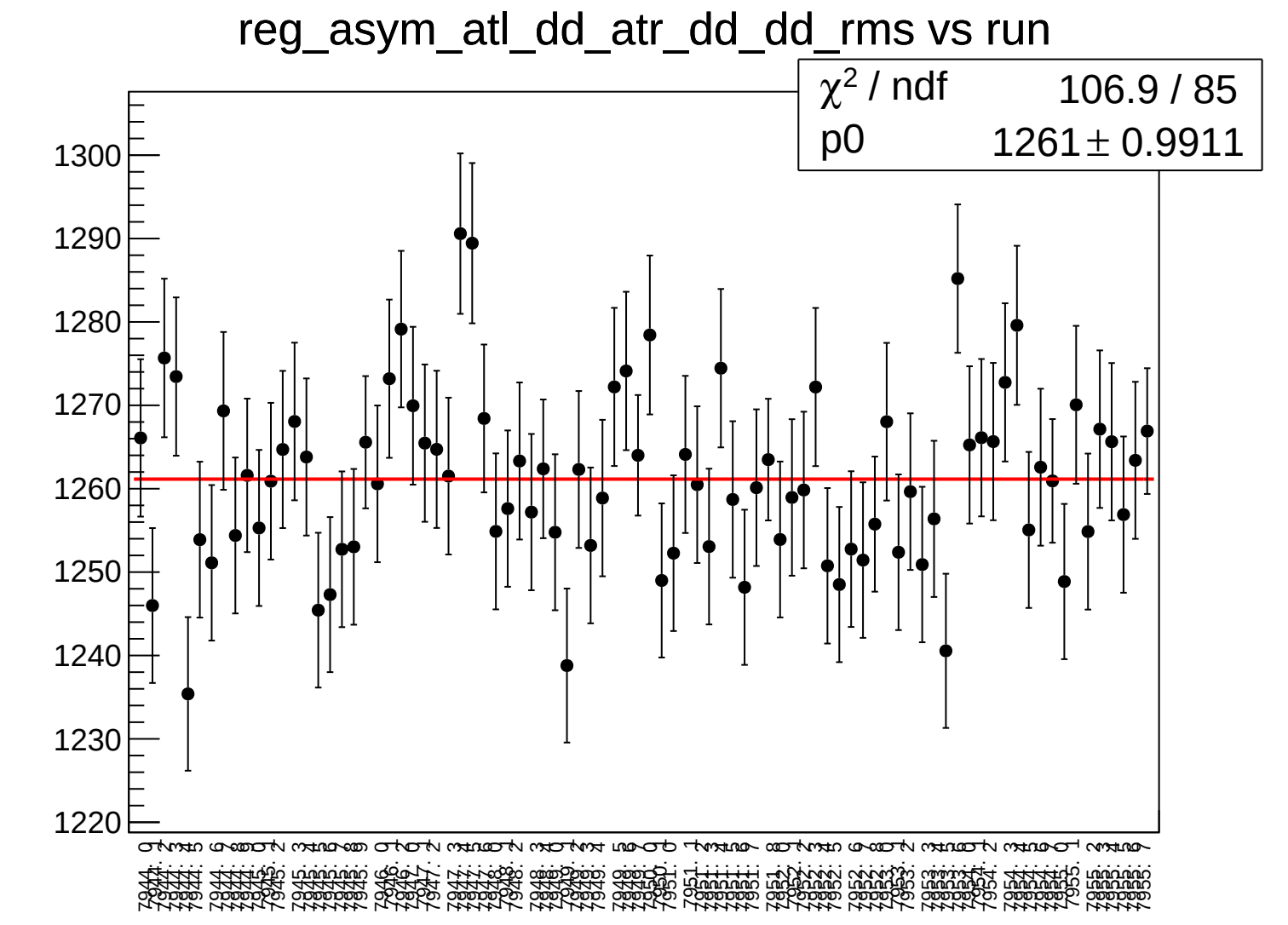

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.33 / 85
p0 −8.281e−14 ± 1.573e−13
pull
Entries 86
Mean −893.1
Std Dev 0

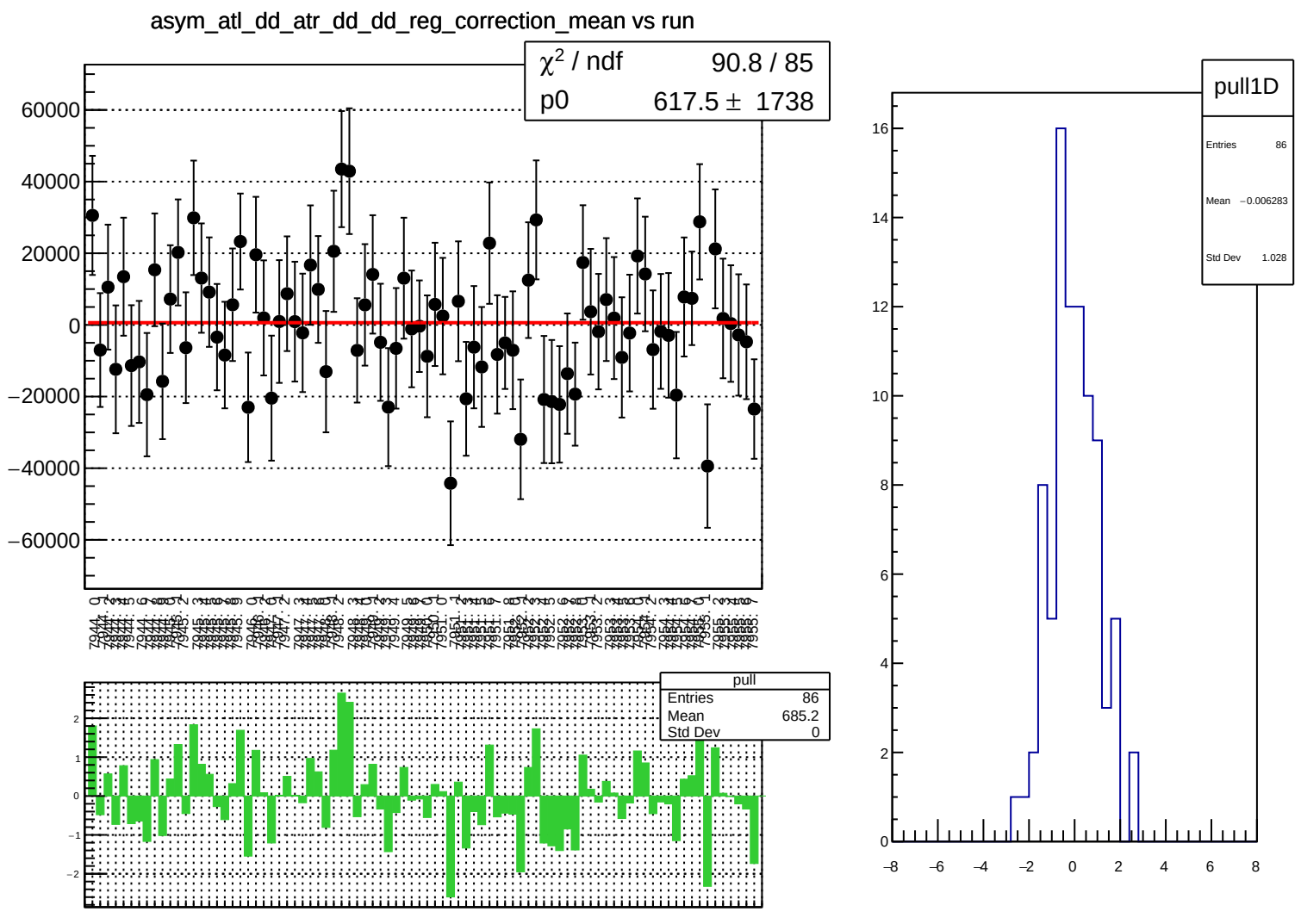

pull1D
Entries 86
Mean 0.0006808
Std Dev 0.9107

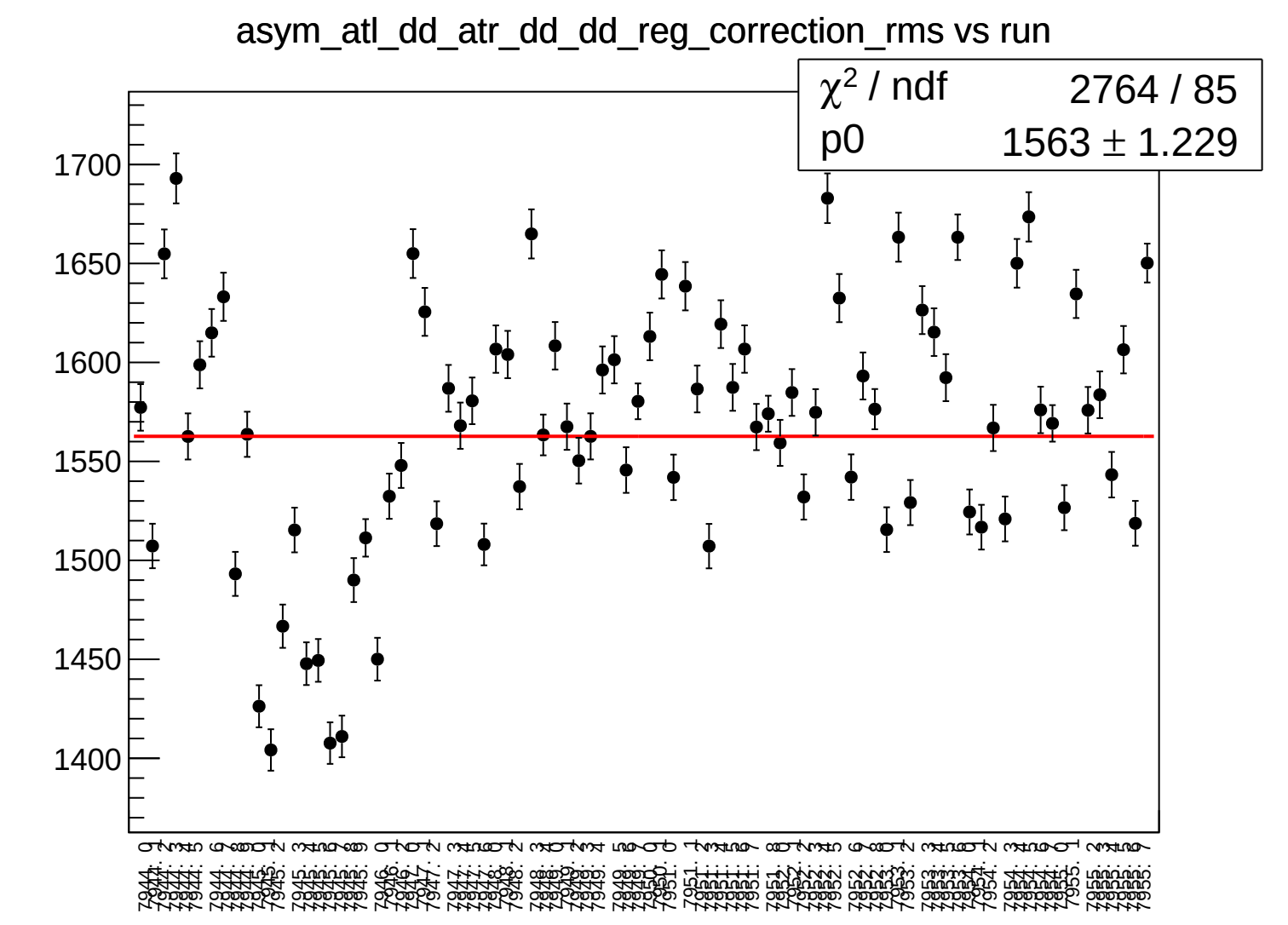

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.077e+05 / 85
p0 1.062e−10 ± 1.112e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

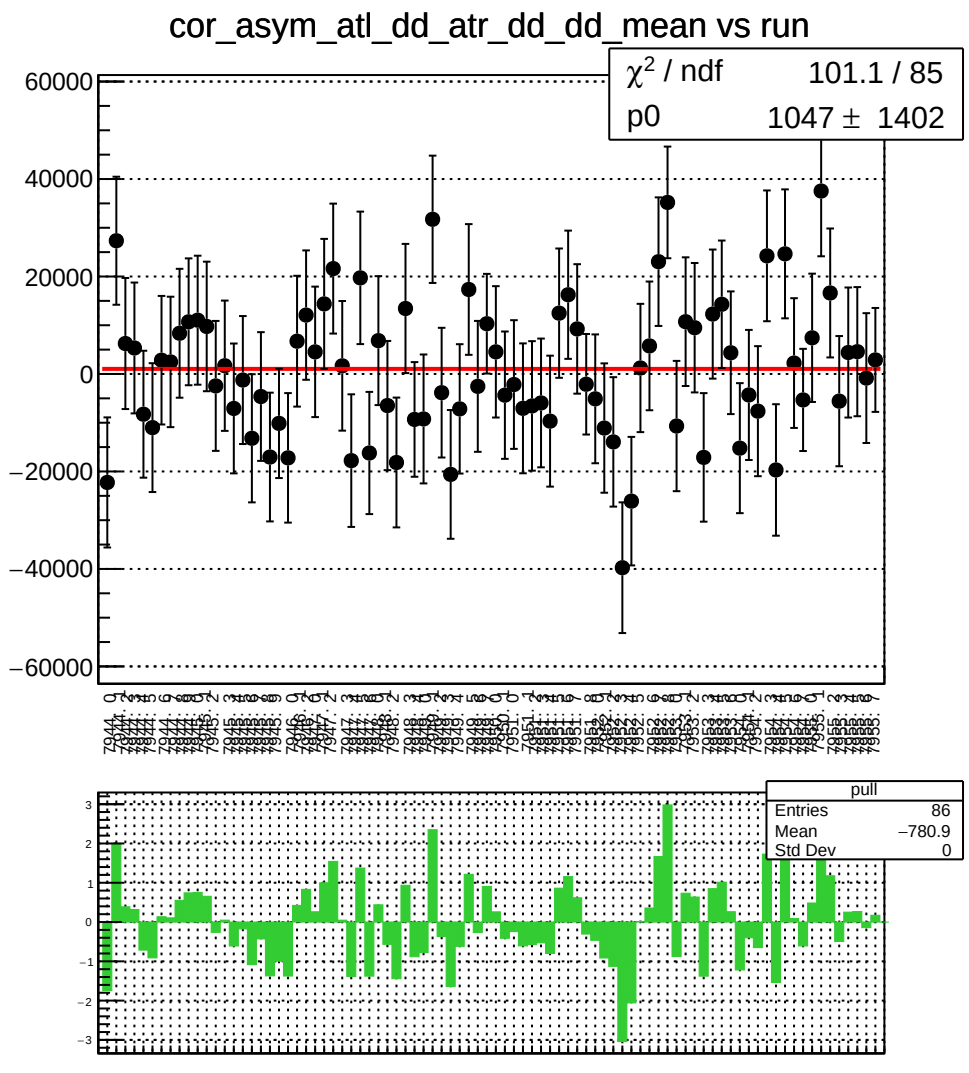

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 101.1 / 85
p0 1046 ± 1402
pull
Entries 86
Mean −780.8
Std Dev 0

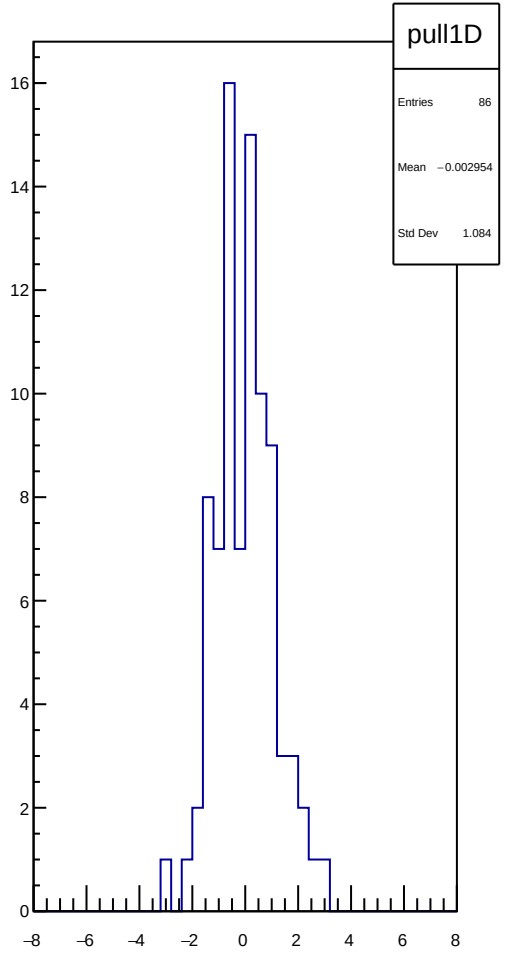

pull1D
Entries 86
Mean −0.002955
Std Dev 1.084

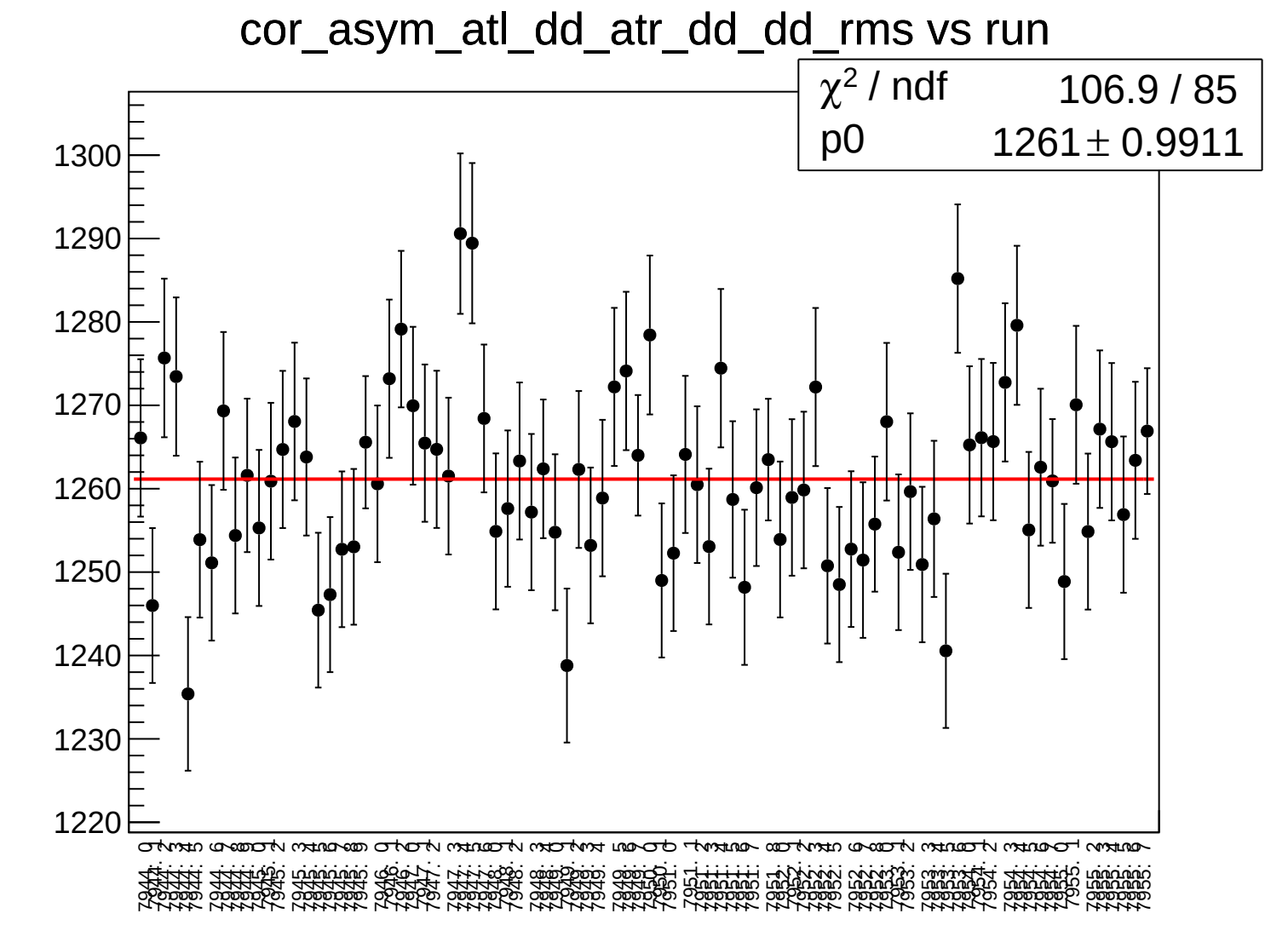

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 106.9 / 85
p0 1261 ± 0.9911
1300
1290
1280
1270
1260
1250
1240
1230
1220

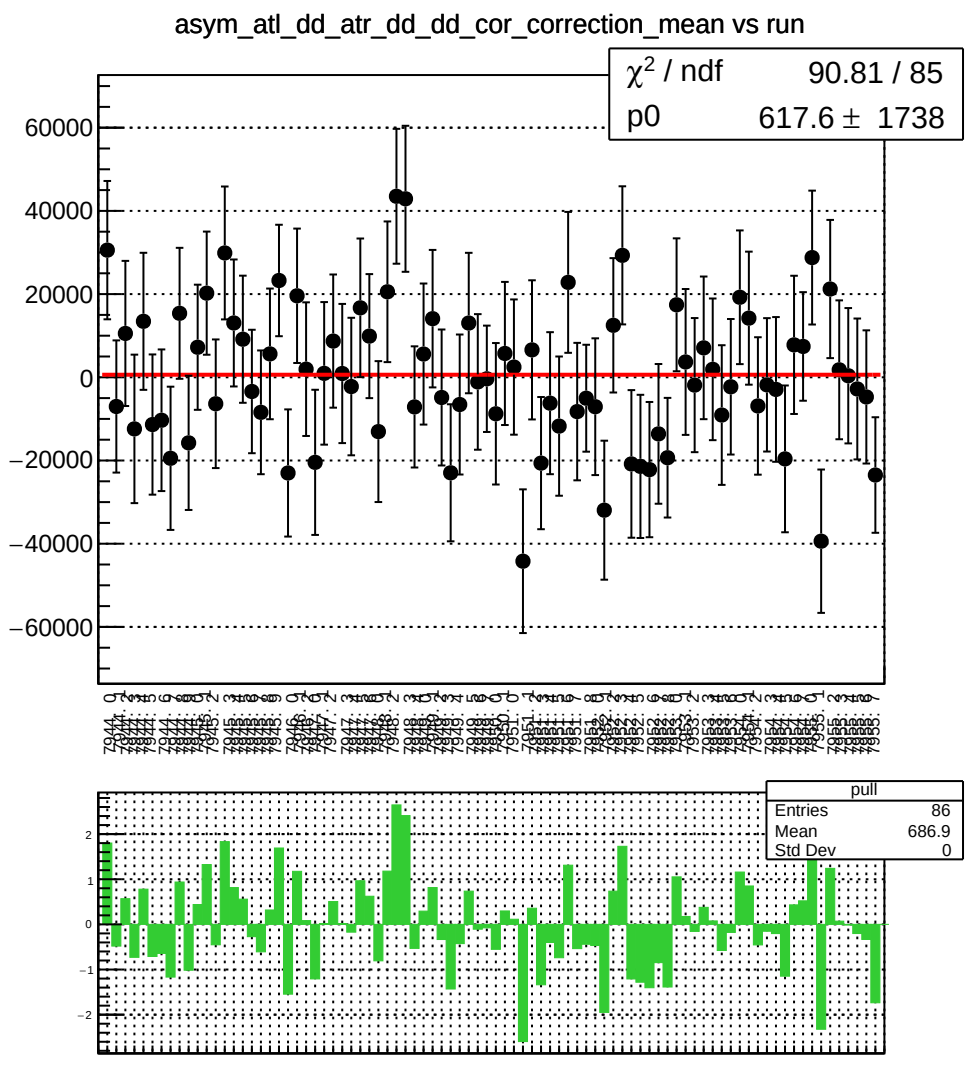

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 90.8 / 85
p0 617.5 ± 1738
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 685.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.006283
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

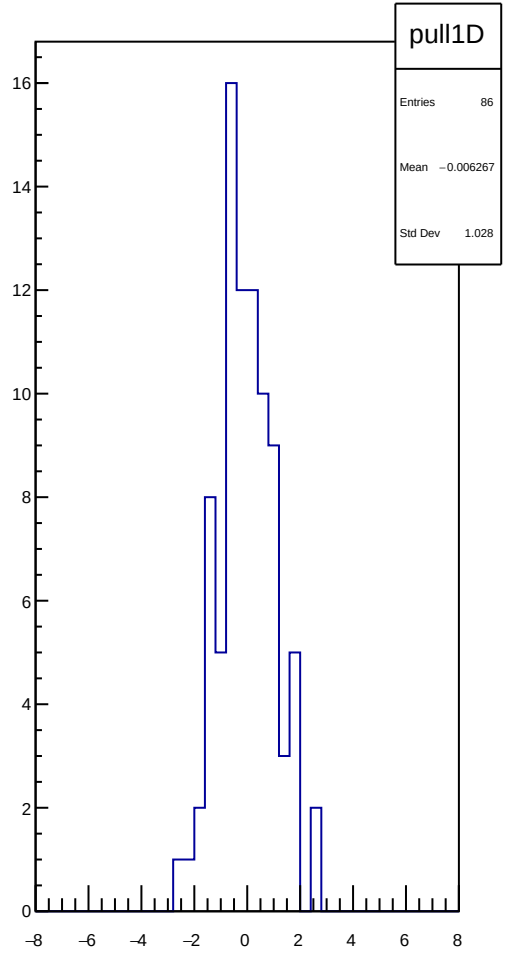

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2764 / 85
p0 1563 ± 1.229
1700
1650
1600
1550
1500
1450
1400

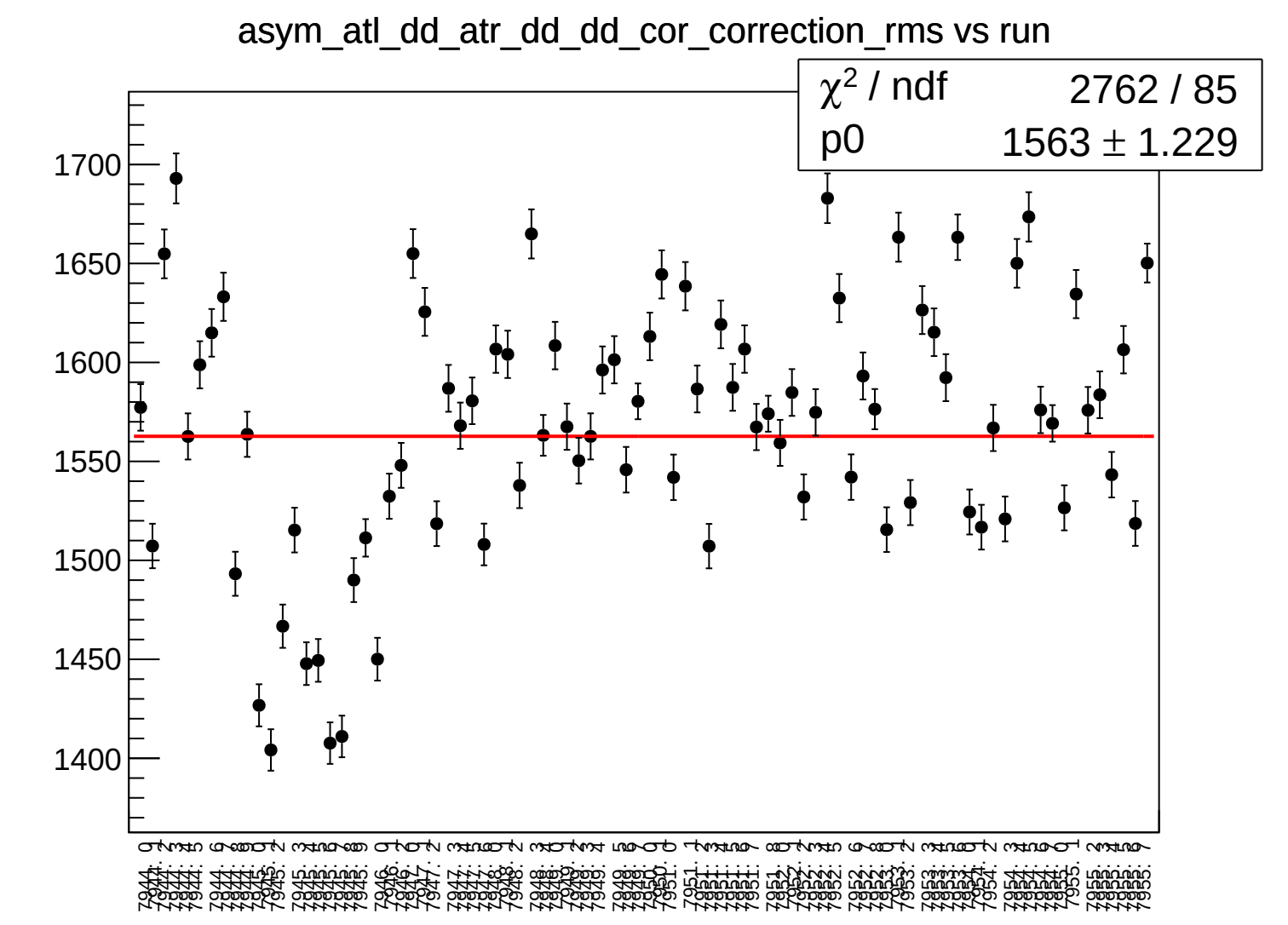

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 101.1 / 85
p0 1047 ± 1402
pull
Entries 86
Mean −780.9
Std Dev 0

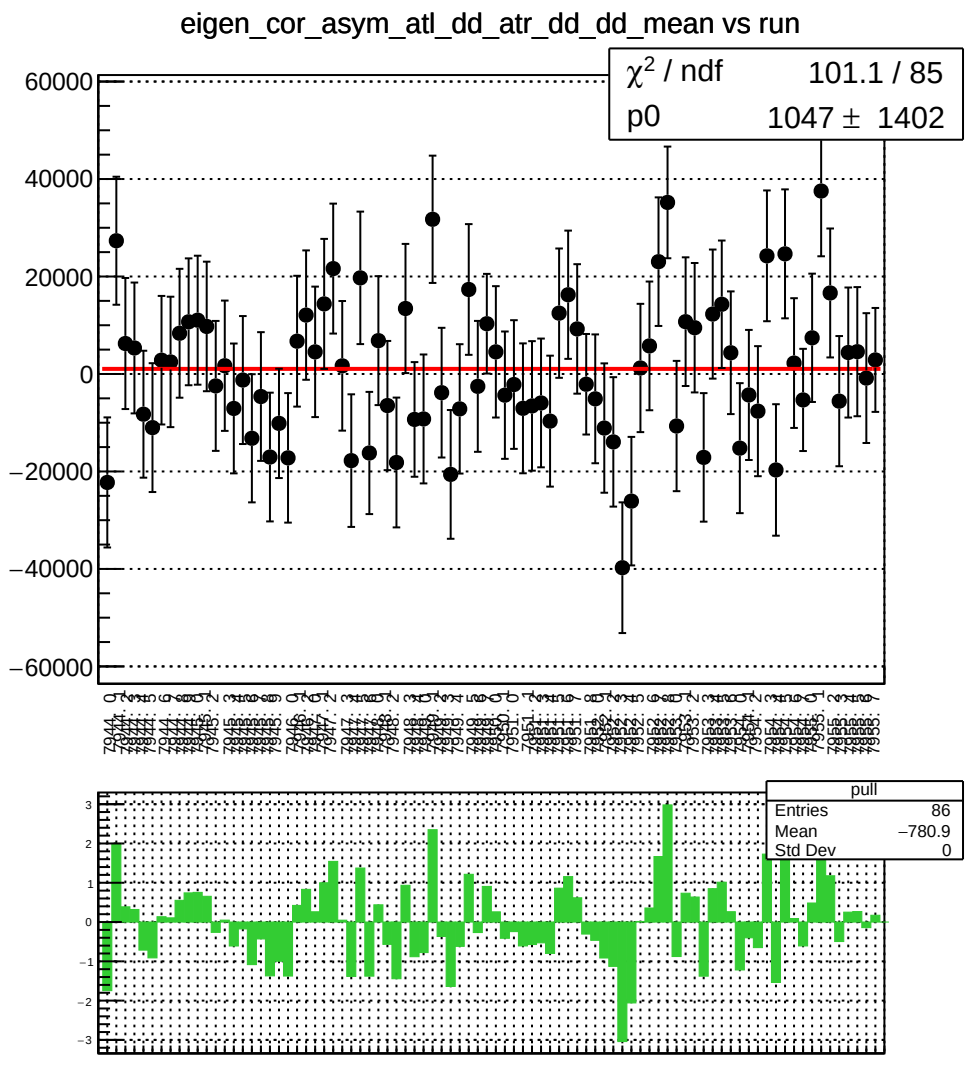

pull1D
Entries 86
Mean −0.002954
Std Dev 1.084

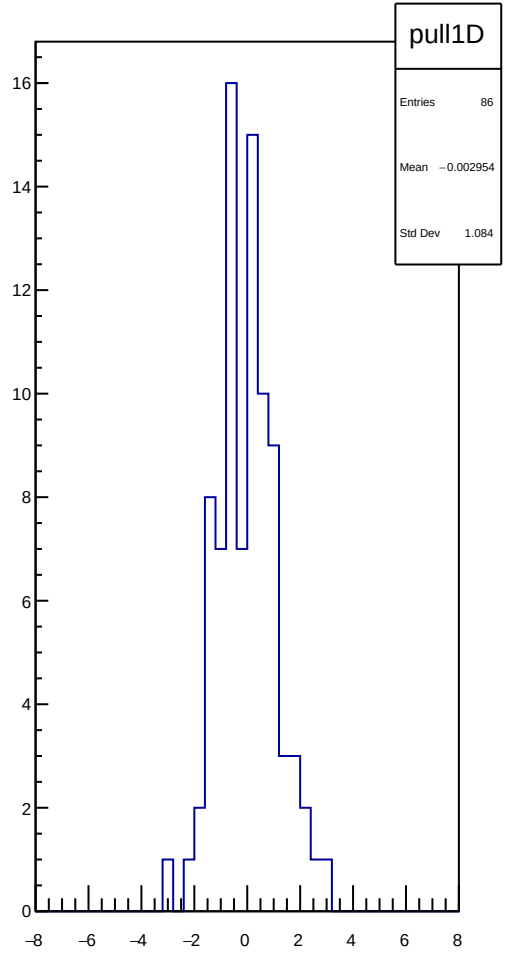

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 106.9 / 85
p0 1261 ± 0.9911
1300
1290
1280
1270
1260
1250
1240
1230
1220

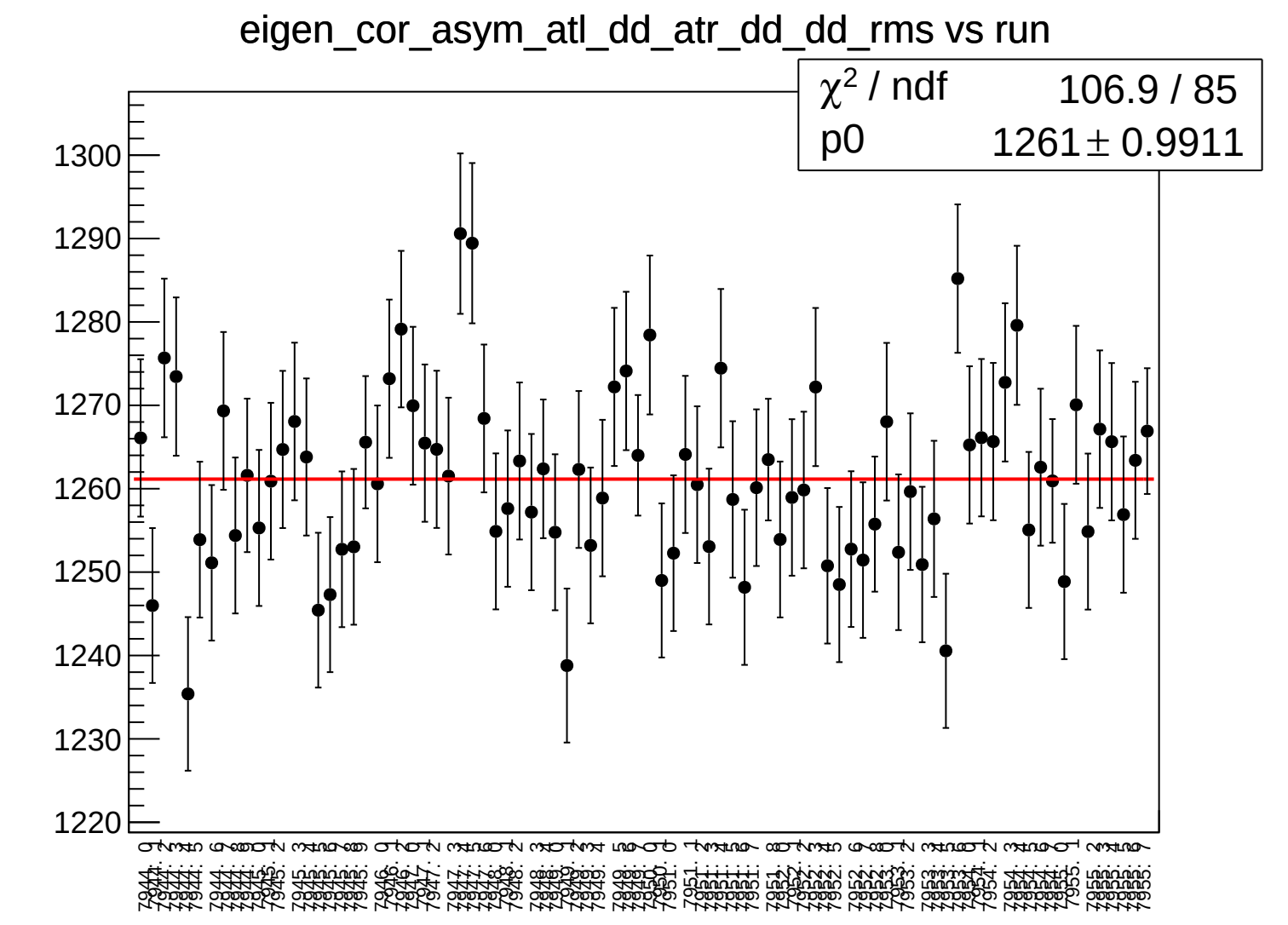

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 90.81 / 85
p0 617.6 ± 1738
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 686.9
Std Dev 0
2
1
0
−1
−2

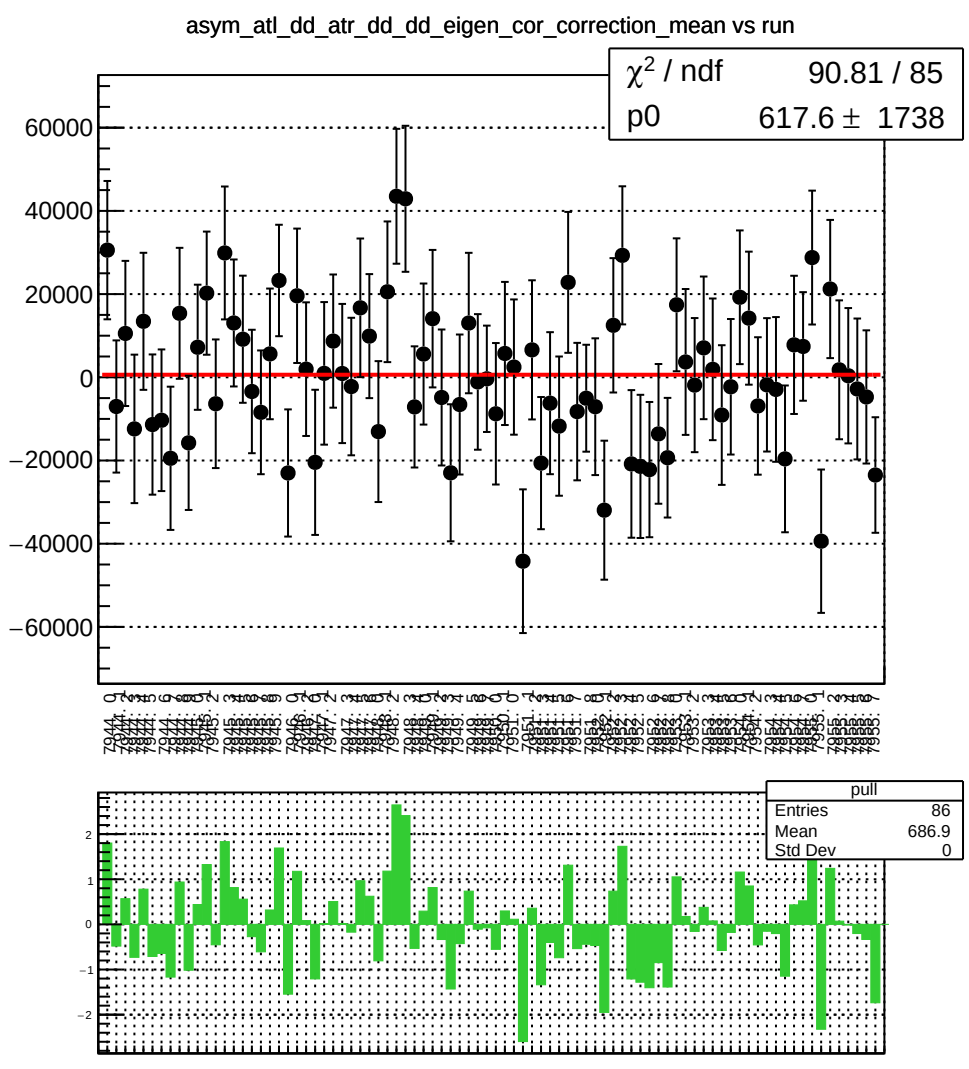

pull1D
Entries 86
Mean −0.006267
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

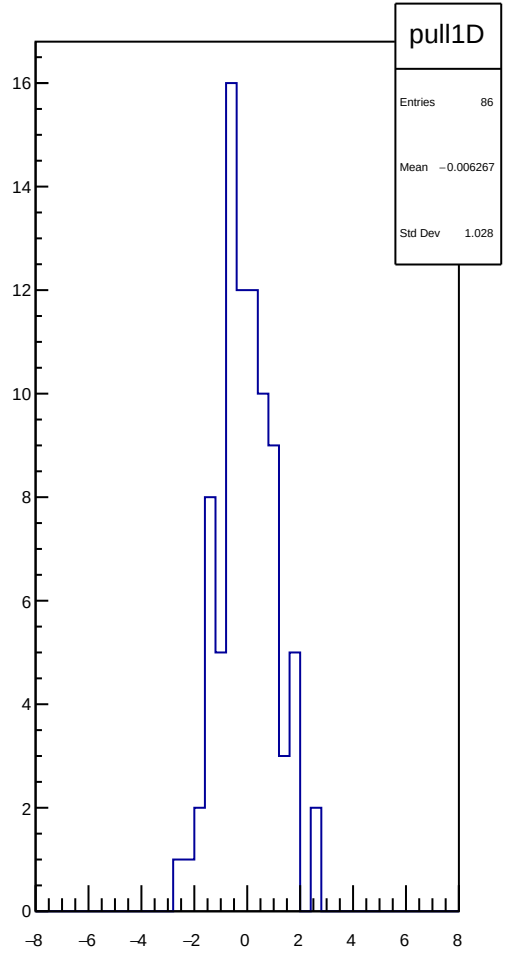

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2762 / 85
p0 1563 ± 1.229
1700
1650
1600
1550
1500
1450
1400

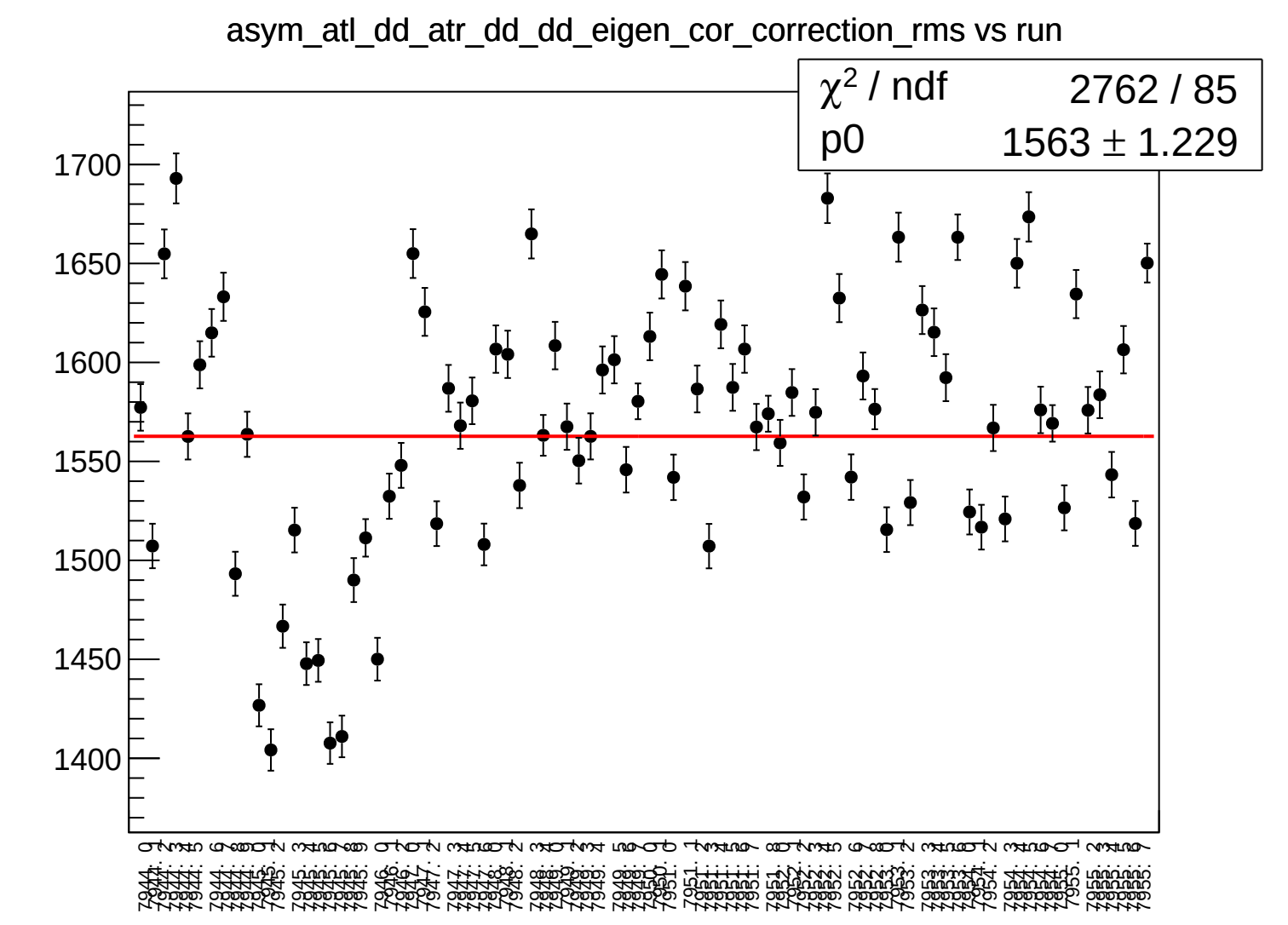

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 101.1 / 85
p0 1047 ± 1402
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −780.9
Std Dev 0
3
2
1
0
−1
−2
−3

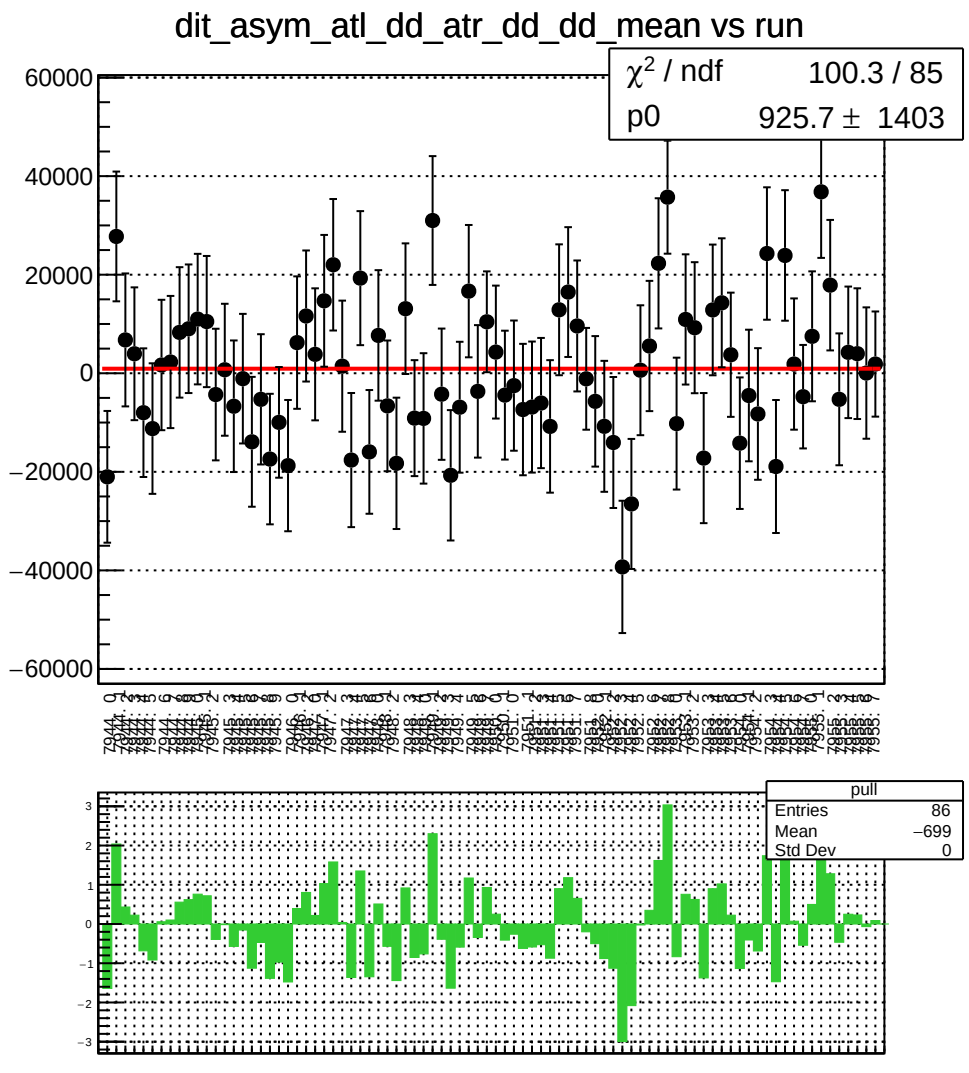

pull1D
Entries 86
Mean −0.002954
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

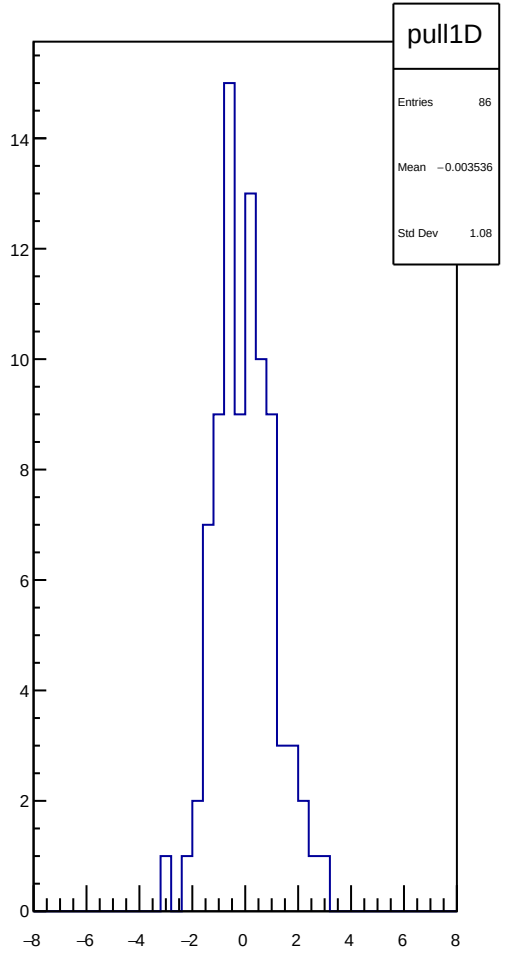

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 106.9 / 85
p0 1261 ± 0.9911
1300
1290
1280
1270
1260
1250
1240
1230
1220

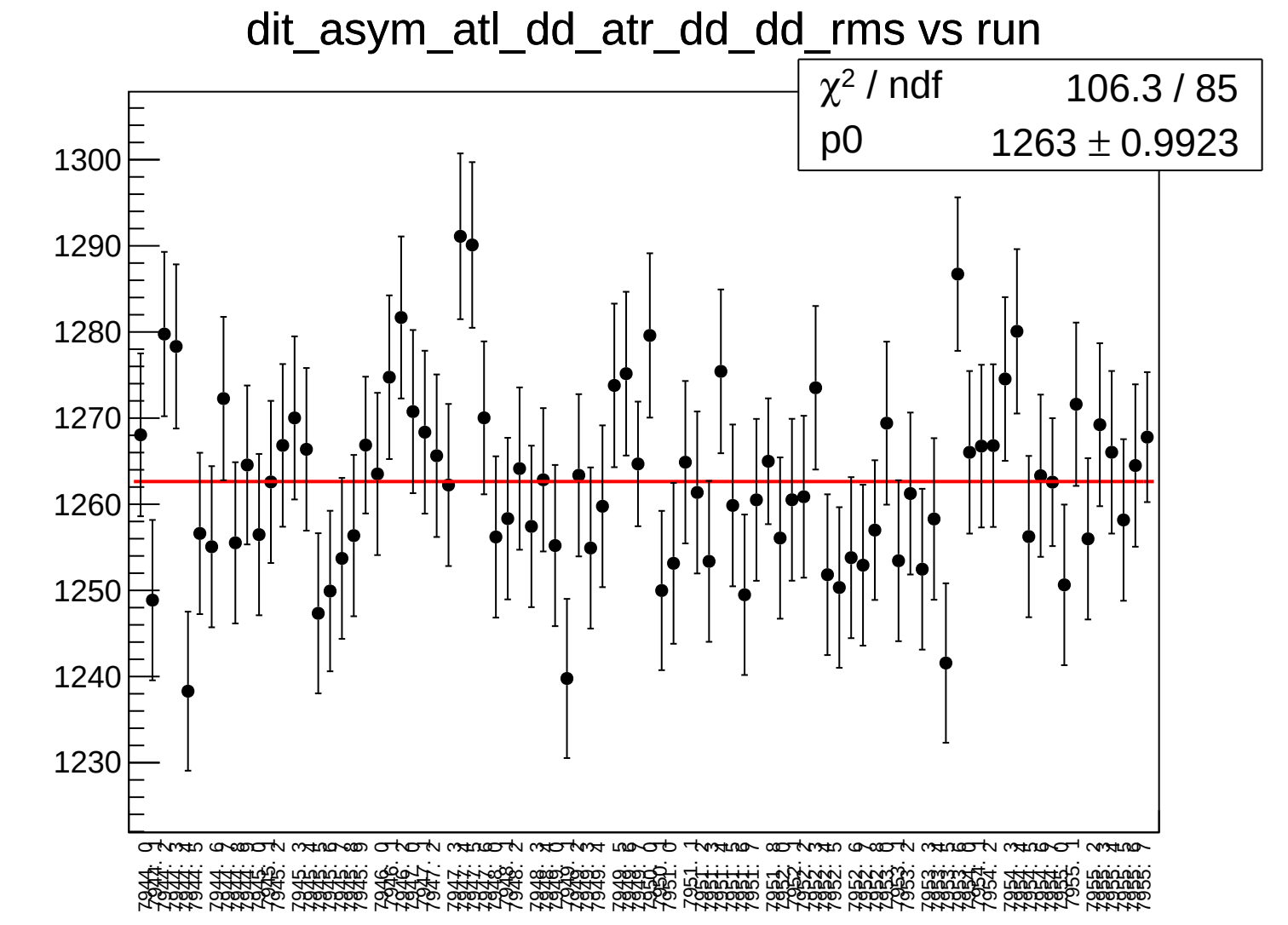

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.81 / 85
p0 617.6 ± 1738
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 686.9
Std Dev 0
2
1
0
−1
−2

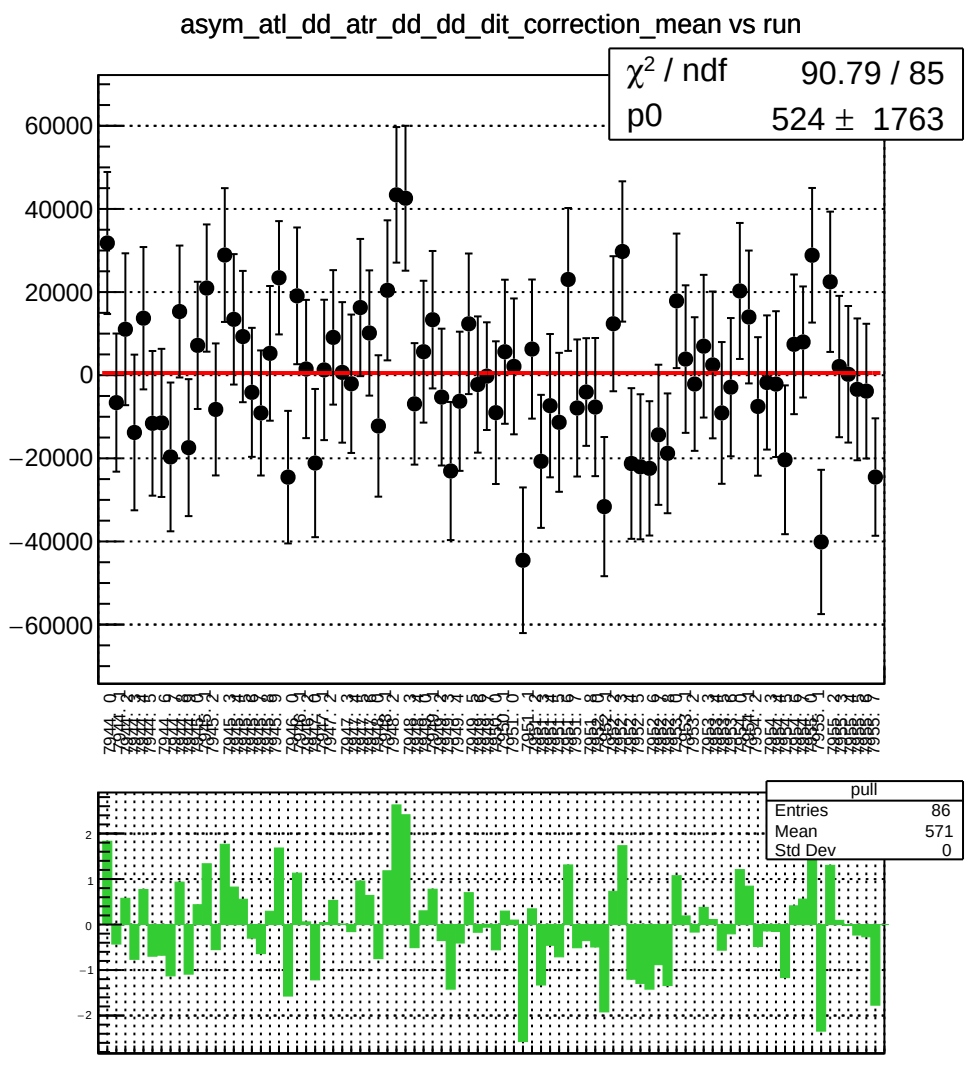

pull1D
Entries 86
Mean −0.006267
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

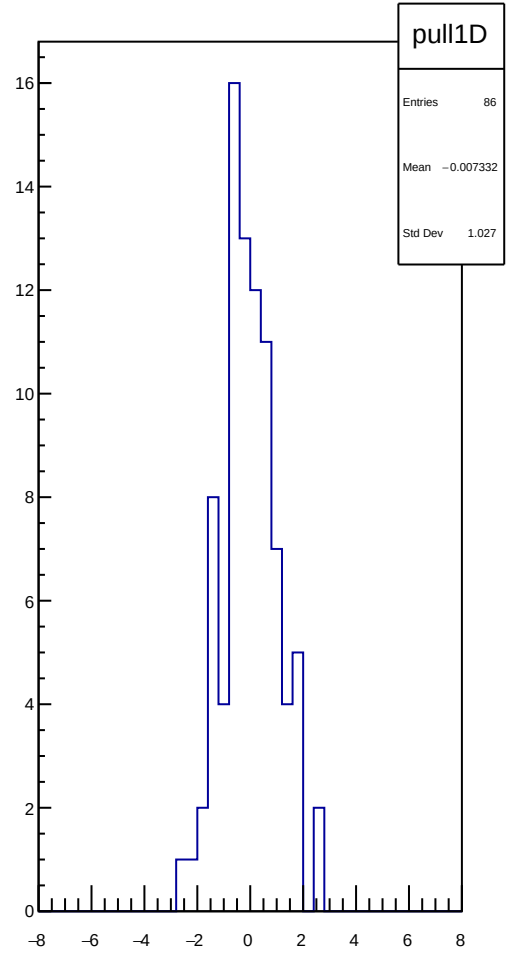

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2762 / 85
p0 1563 ± 1.229
1700
1650
1600
1550
1500
1450
1400

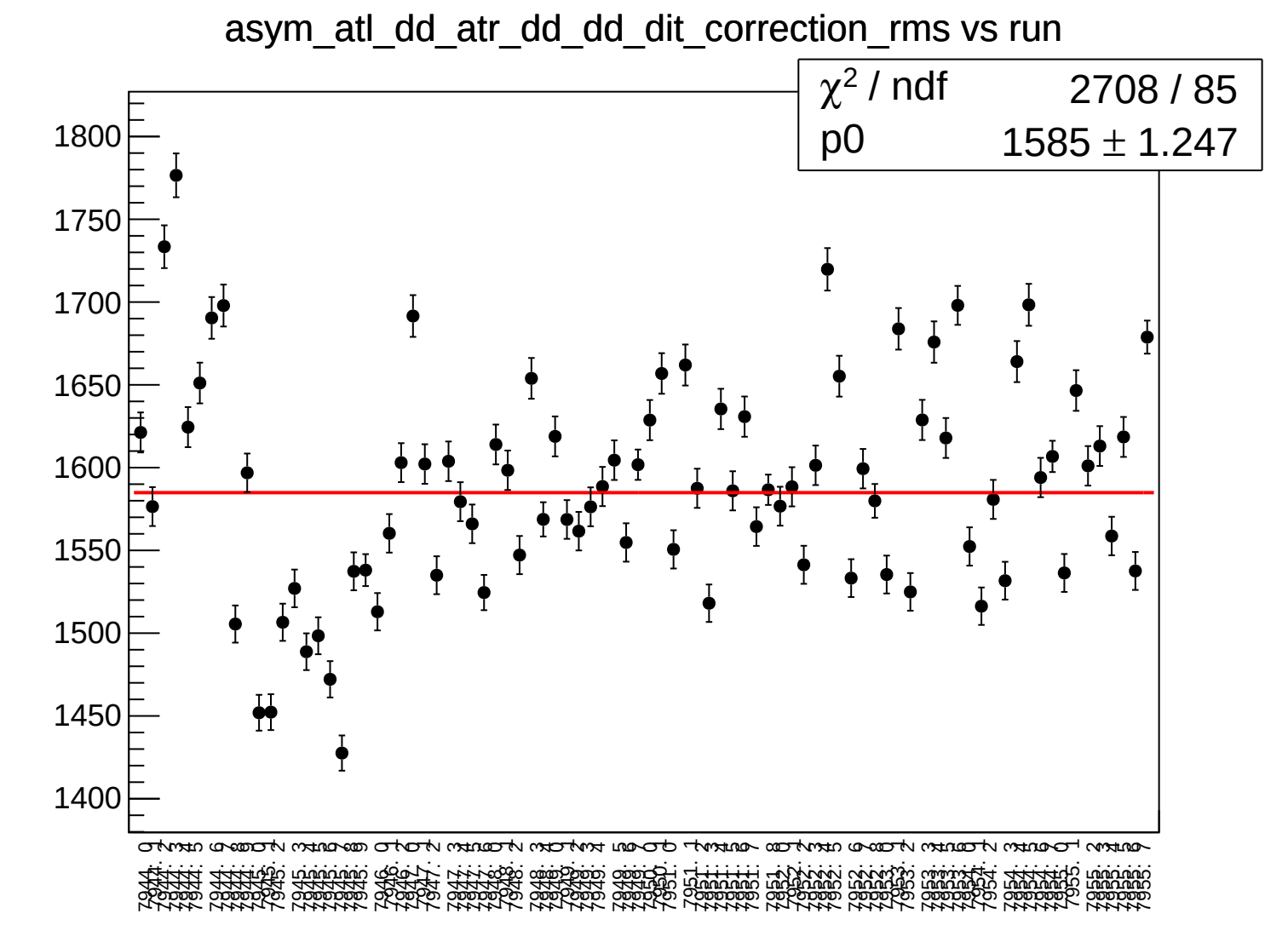

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 100.3 / 85
p0 925.7 ± 1403
pull
Entries 86
Mean −699
Std Dev 0

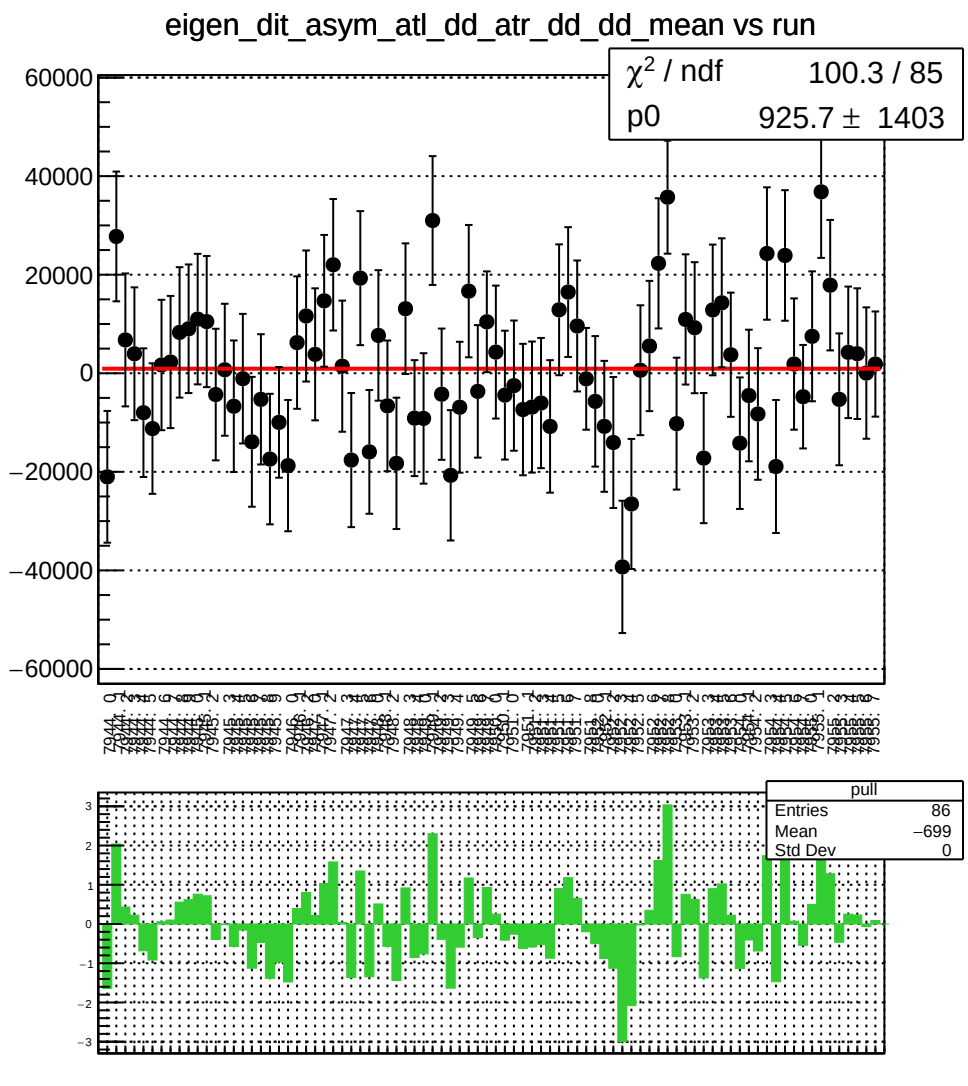

pull1D
Entries 86
Mean −0.003536
Std Dev 1.08

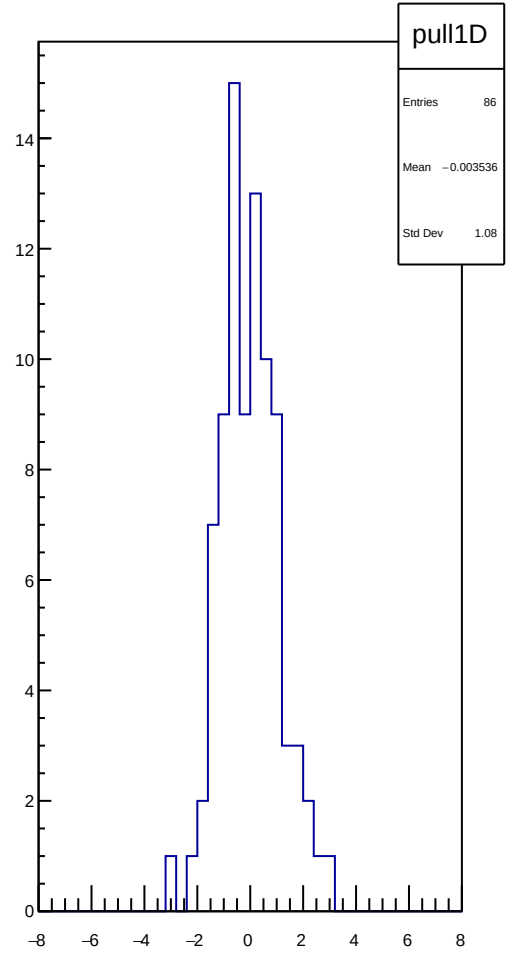

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 106.3 / 85
p0 1263 ± 0.9923
1300
1290
1280
1270
1260
1250
1240
1230

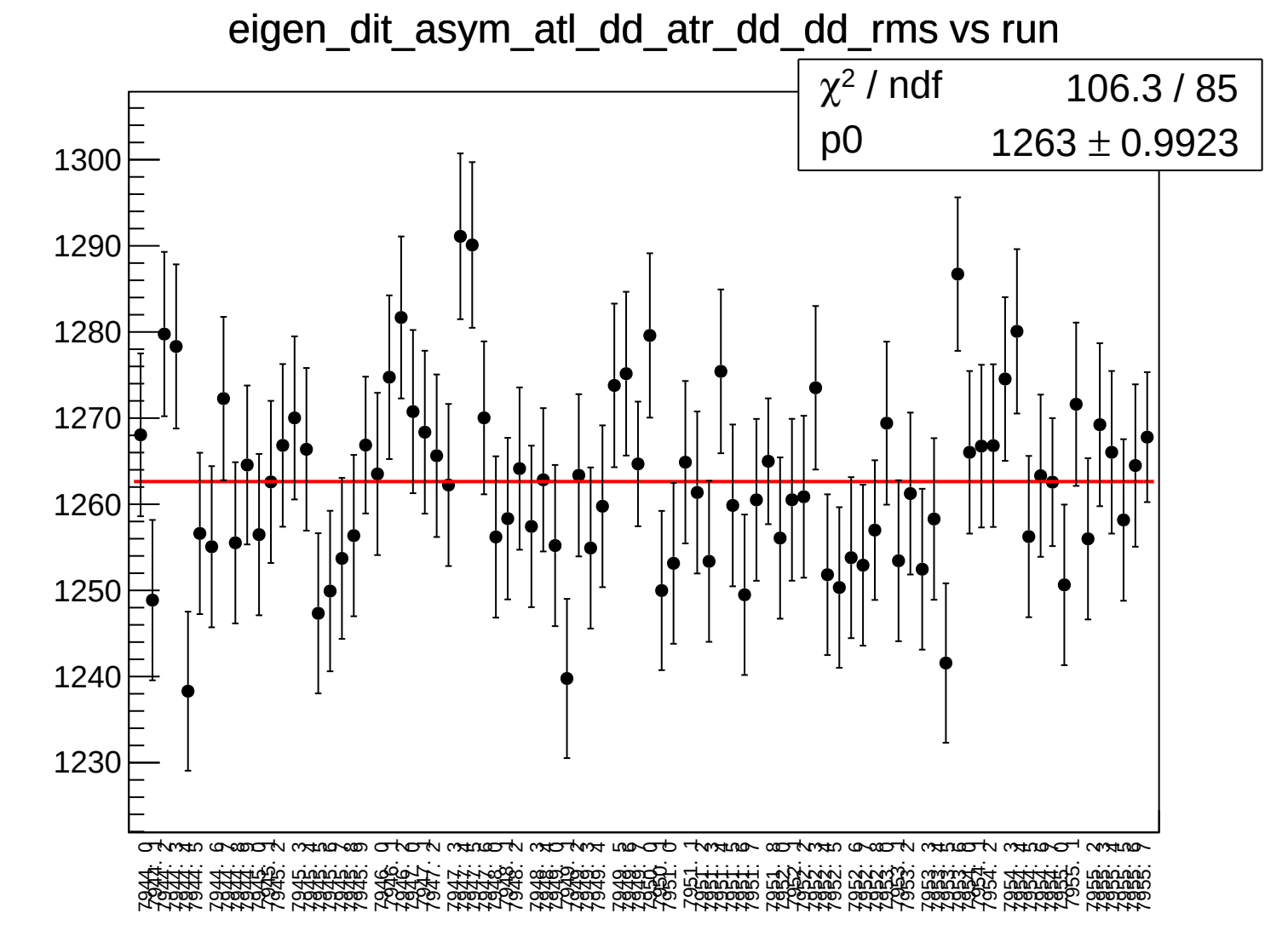

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 90.79 / 85
p0 524 ± 1763
pull
Entries 86
Mean 571
Std Dev 0

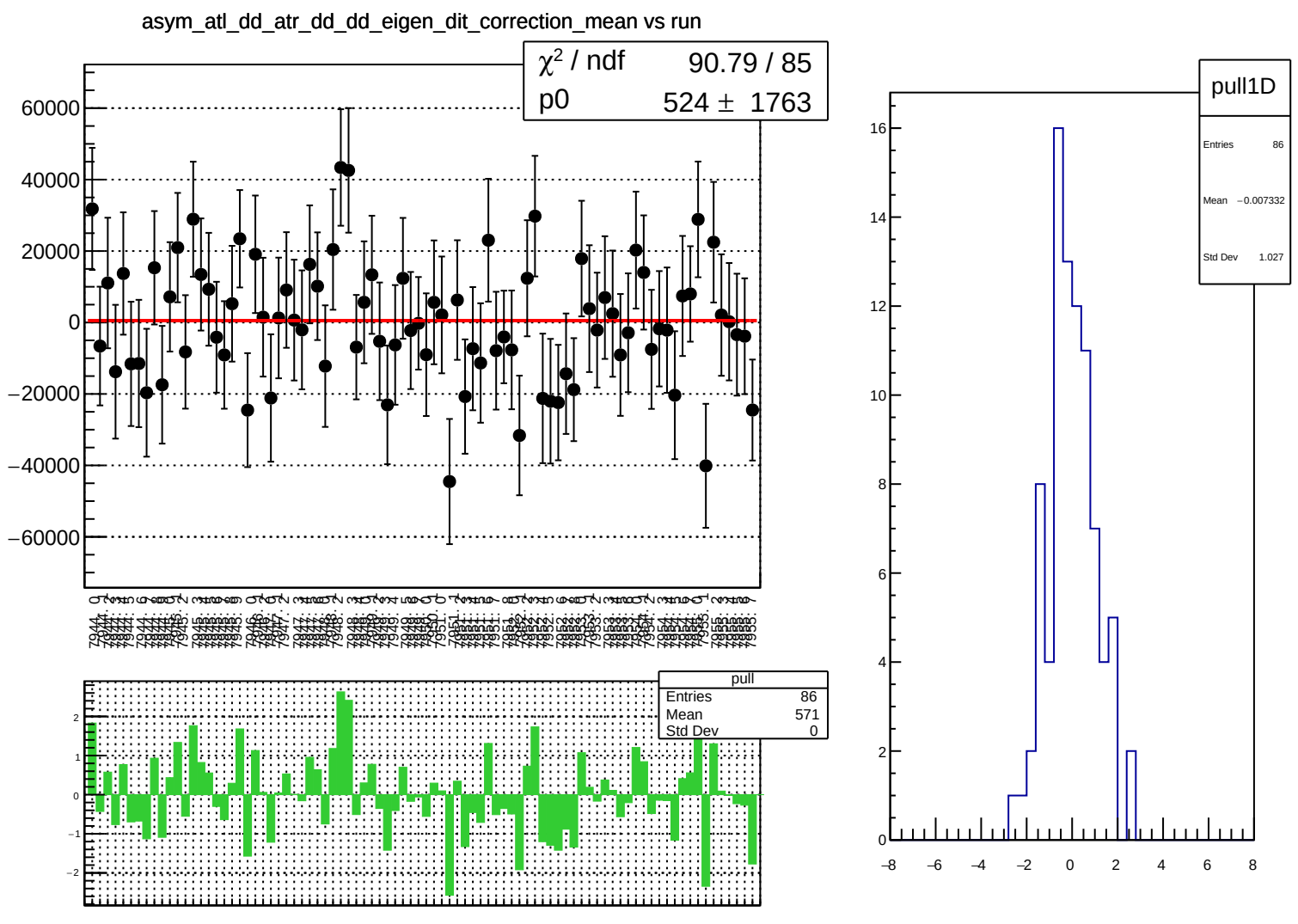

pull1D
Entries 86
Mean −0.007332
Std Dev 1.027

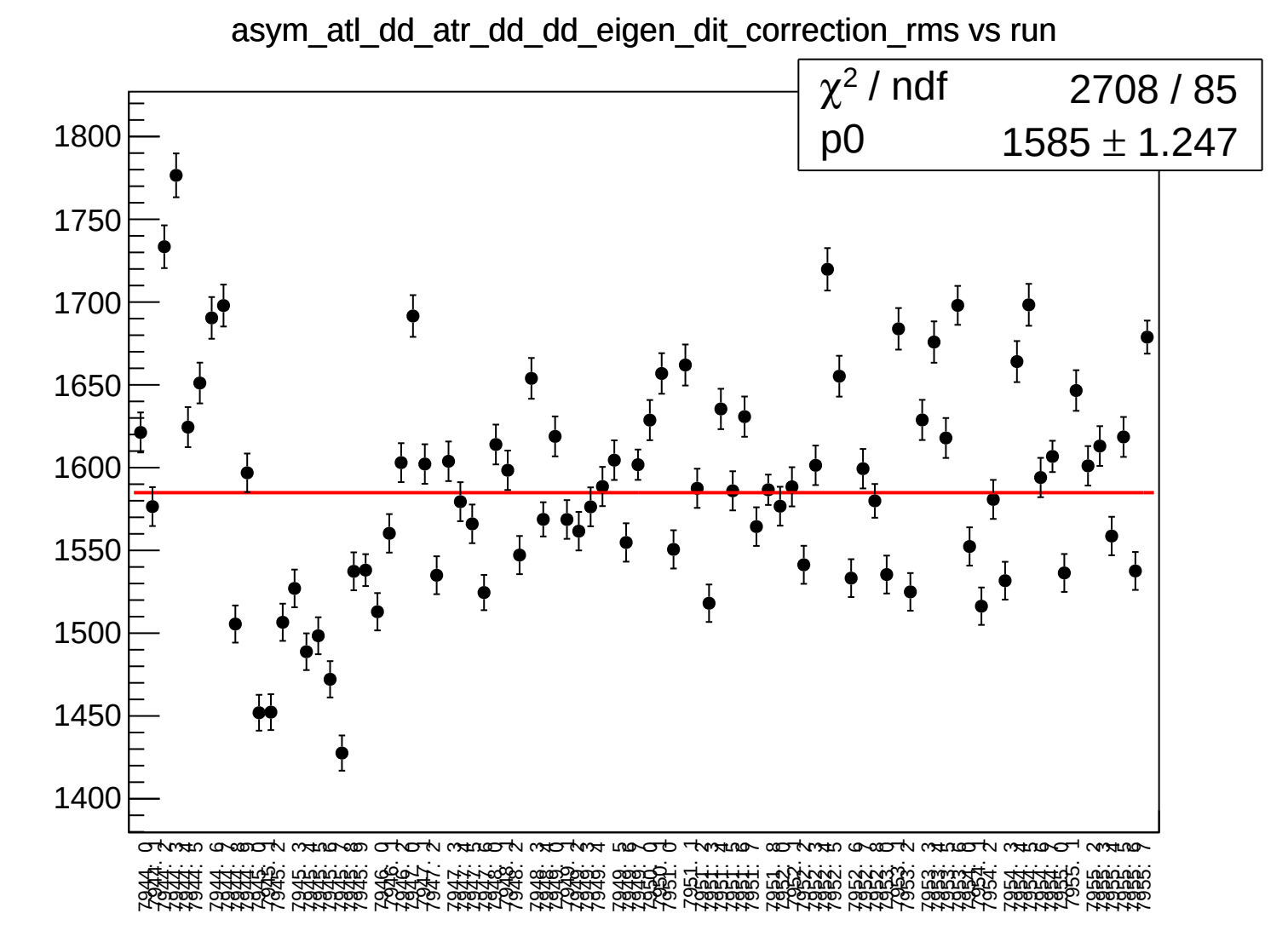

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2708 / 85
p0 1585 ± 1.247
1800
1750
1700
1650
1600
1550
1500
1450
1400

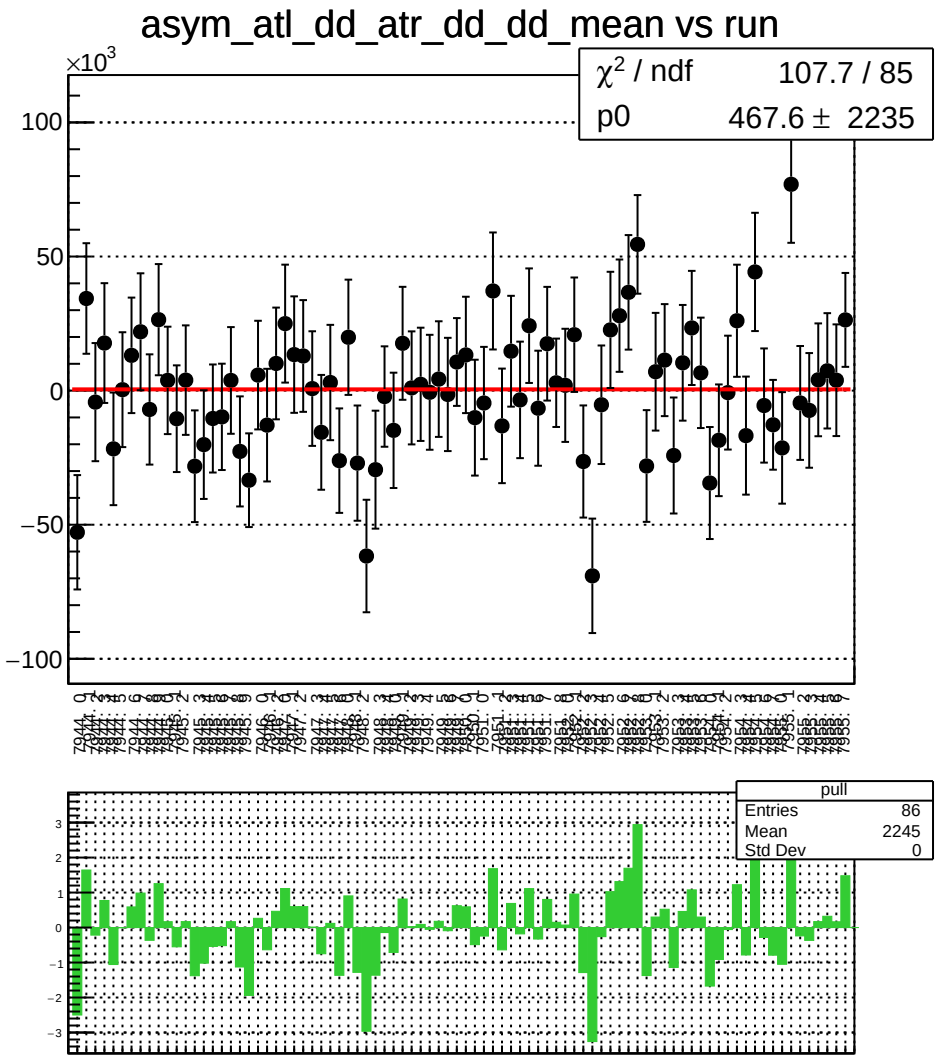

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 100.3 / 85
p0 925.7 ± 1403
pull
Entries 86
Mean −699
Std Dev 0

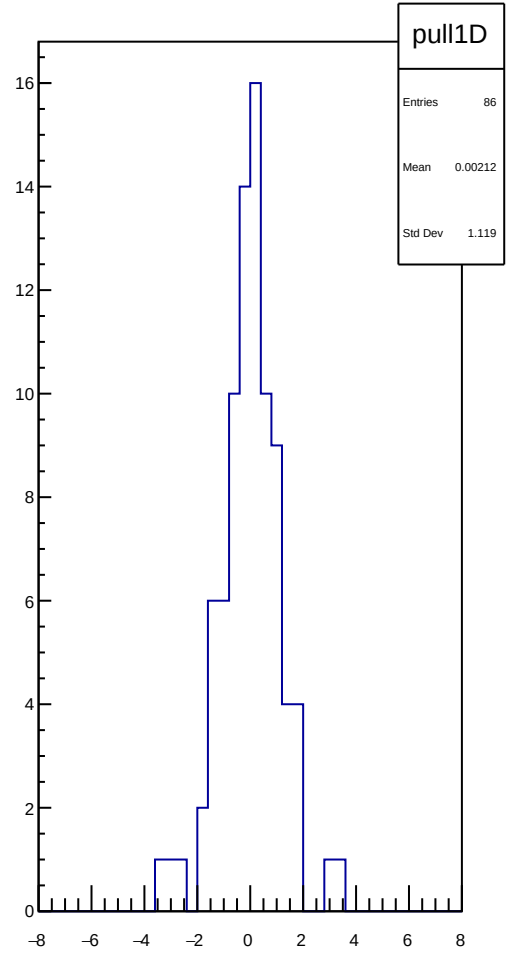

pull1D
Entries 86
Mean −0.003536
Std Dev 1.08

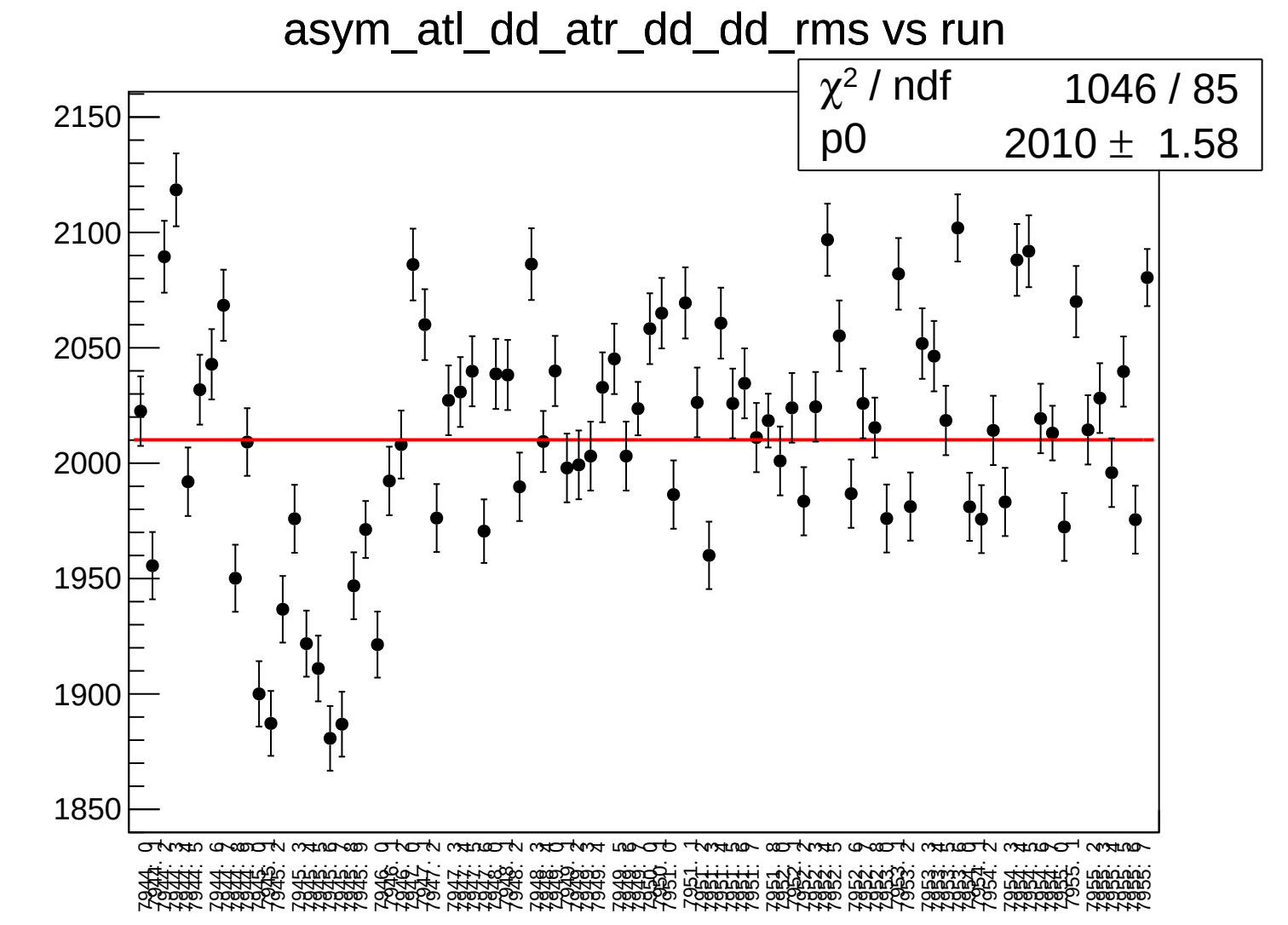

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 106.3 / 85
p0 1263 ± 0.9923
1300
1290
1280
1270
1260
1250
1240
1230

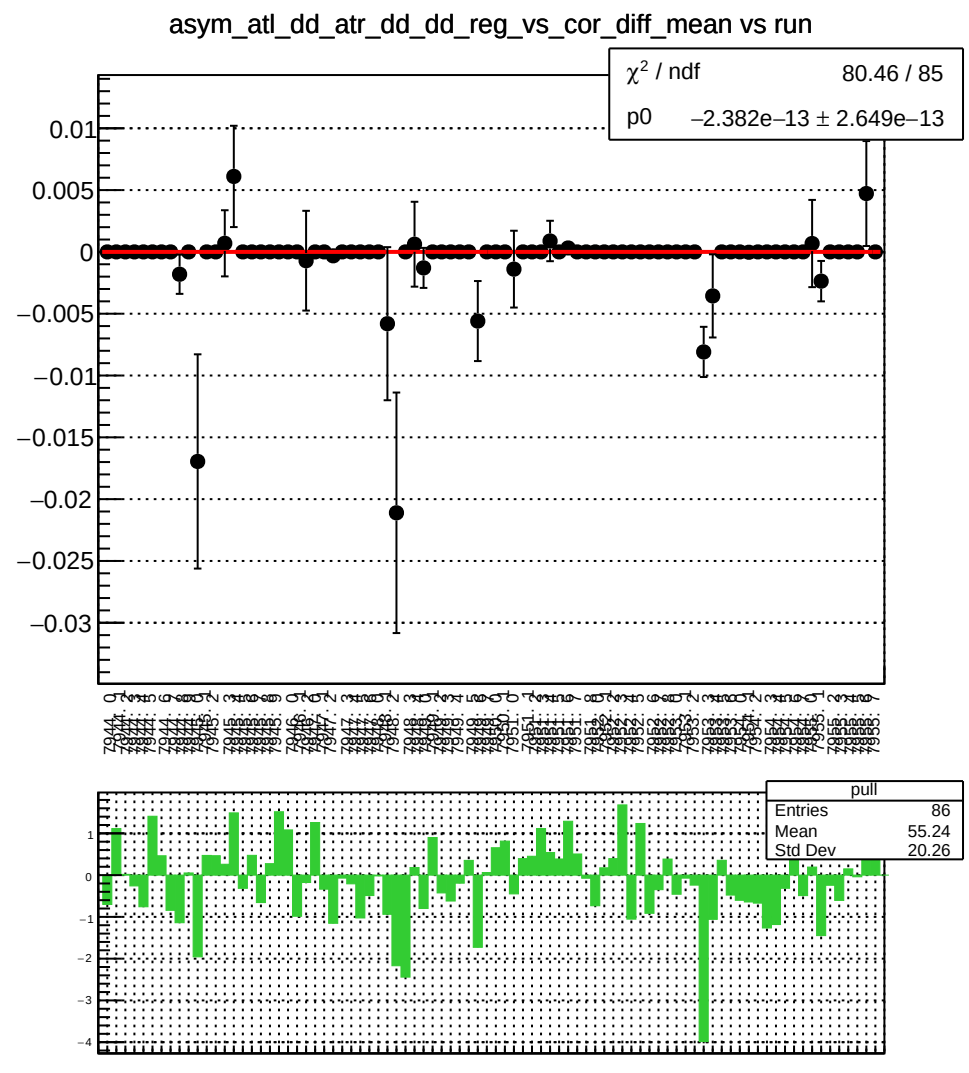

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.79 / 85
p0 524 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 571
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.007332
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

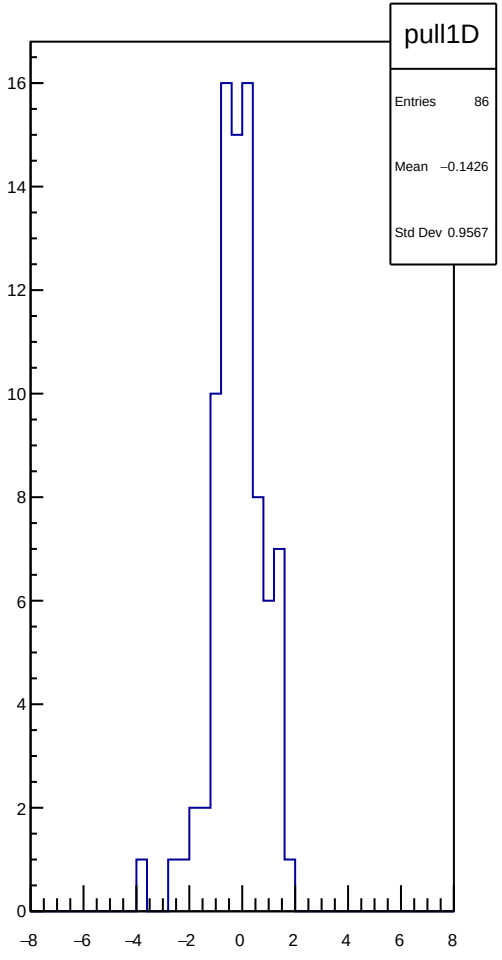

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2708 / 85
p0 1585 ± 1.247
1800
1750
1700
1650
1600
1550
1500
1450
1400

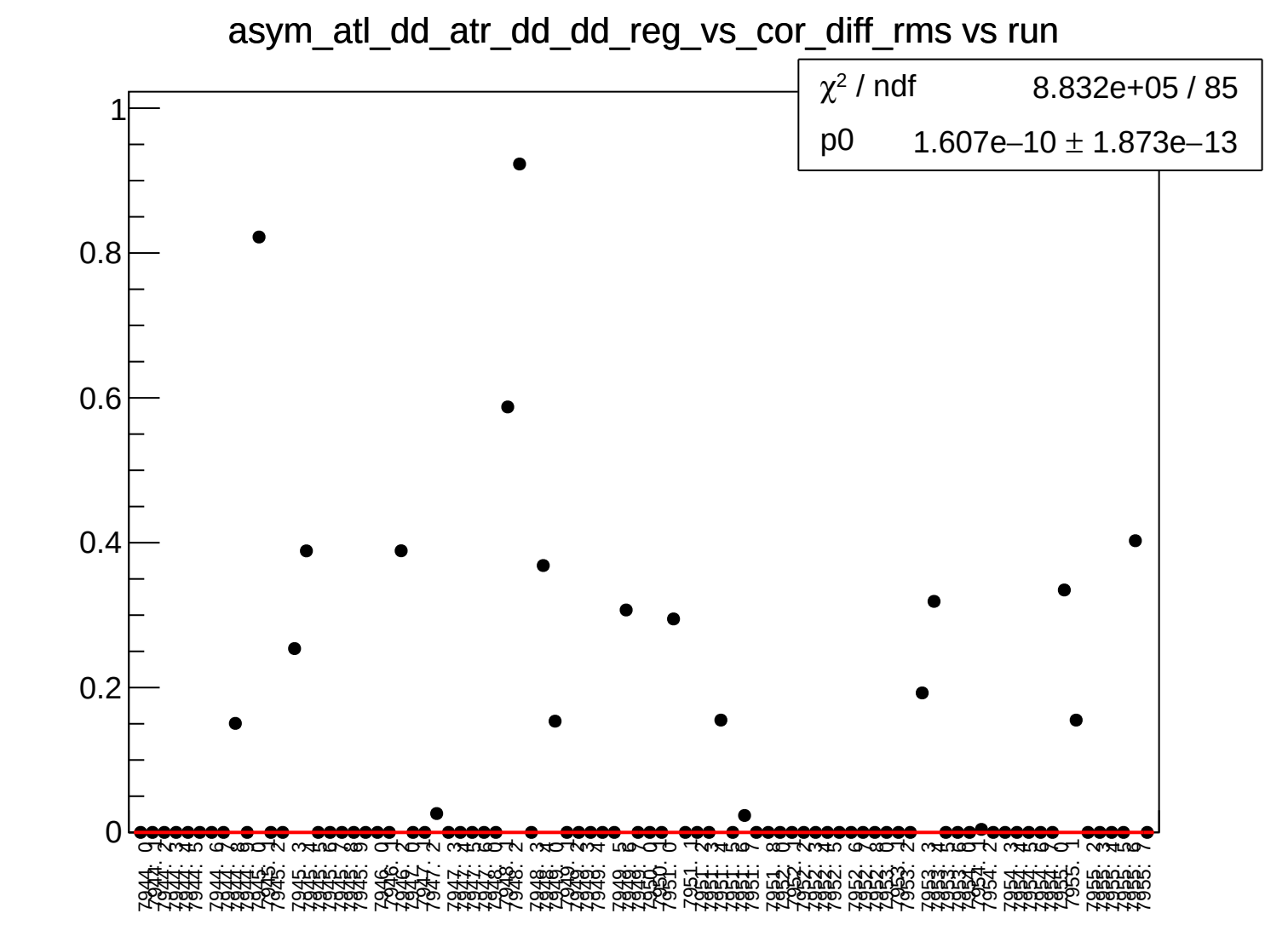

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 107.7 / 85
p0 467.6 ± 2235
100
50
0
−50
−100
pull
Entries 86
Mean 2245
Std Dev 0
3
2
1
0
−1
−2
−3

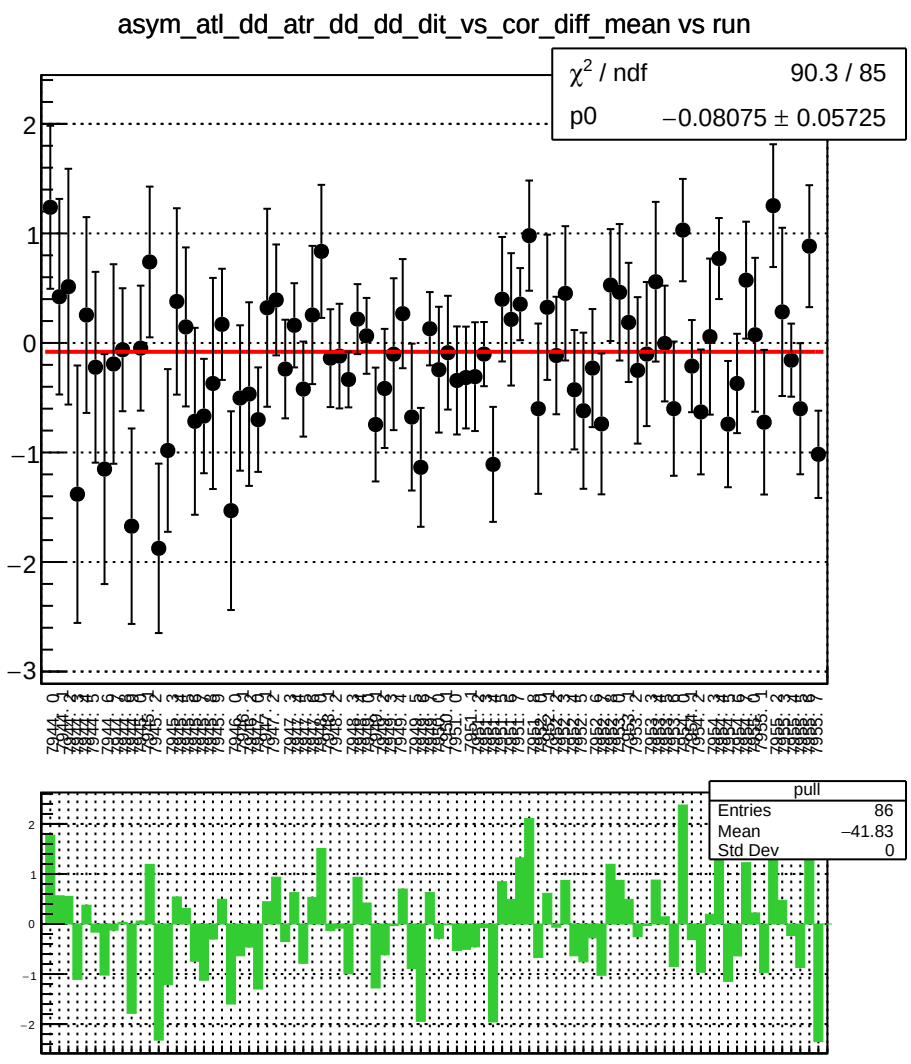

pull1D
Entries 86
Mean 0.00212
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

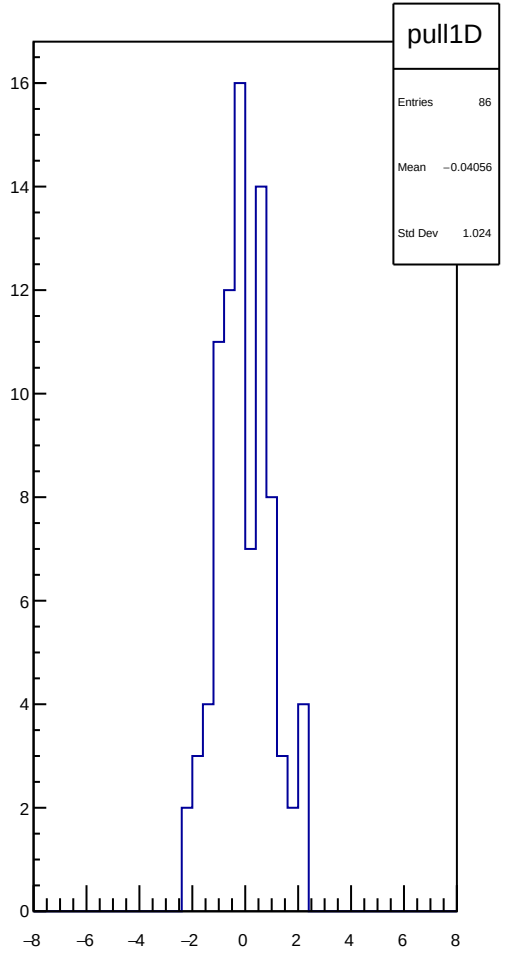

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1046 / 85
p0 2010 ± 1.58
2150
2100
2050
2000
1950
1900
1850

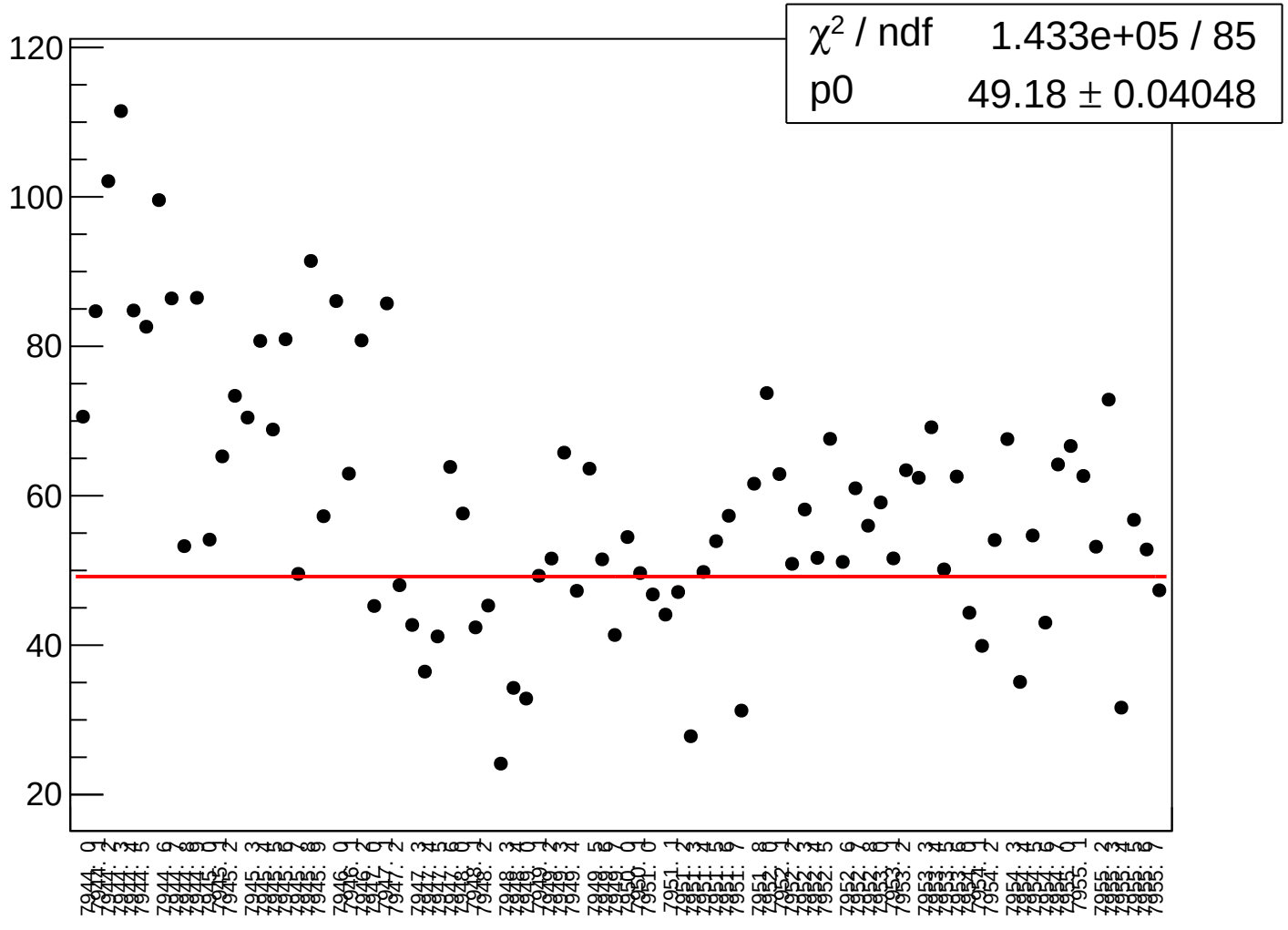

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.46 / 85
p0 −2.382e−13 ± 2.649e−13
pull
Entries 86
Mean 55.24
Std Dev 20.26

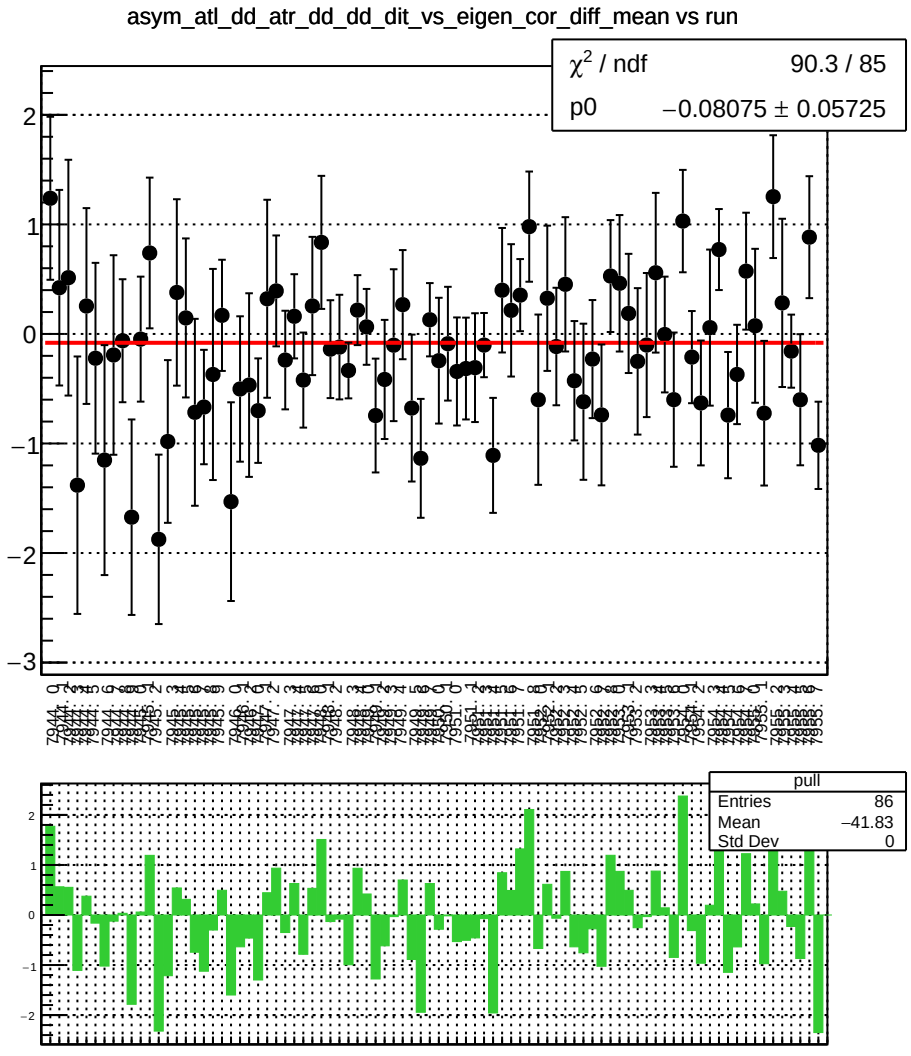

pull1D
Entries 86
Mean −0.1426
Std Dev 0.9567

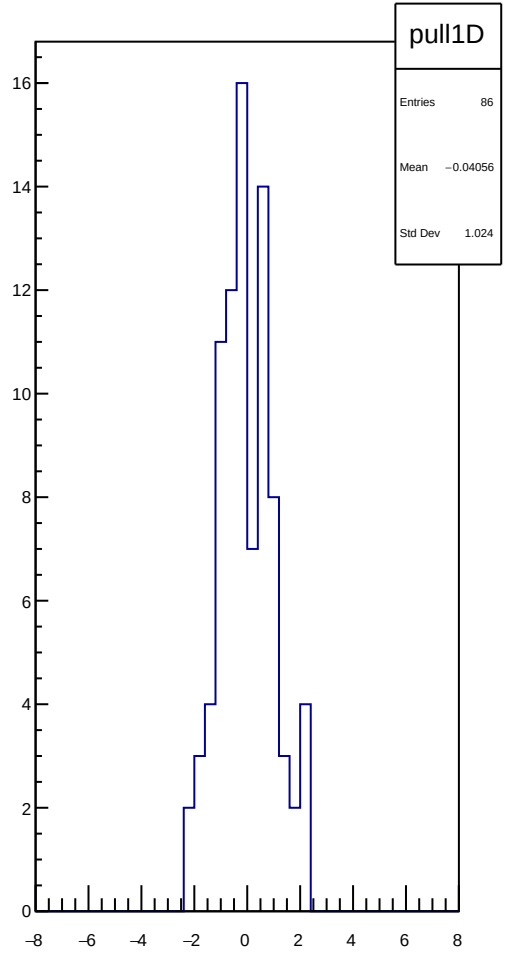

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.832e+05 / 85
p0 1.607e−10 ± 1.873e−13
1
0.8
0.6
0.4
0.2
0

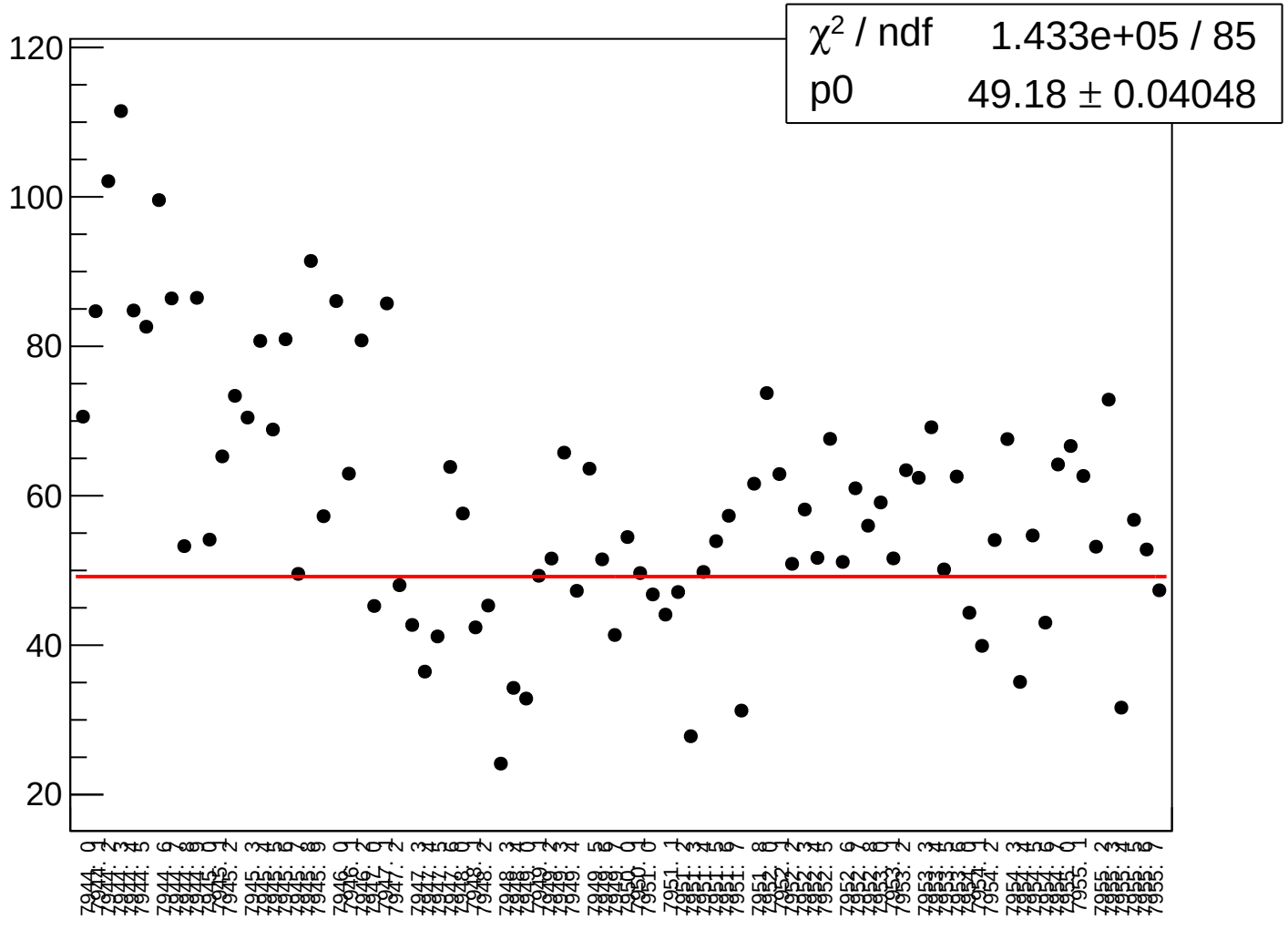

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.3 / 85
p0 −0.08075 ± 0.05725
pull
Entries 86
Mean −41.83
Std Dev 0

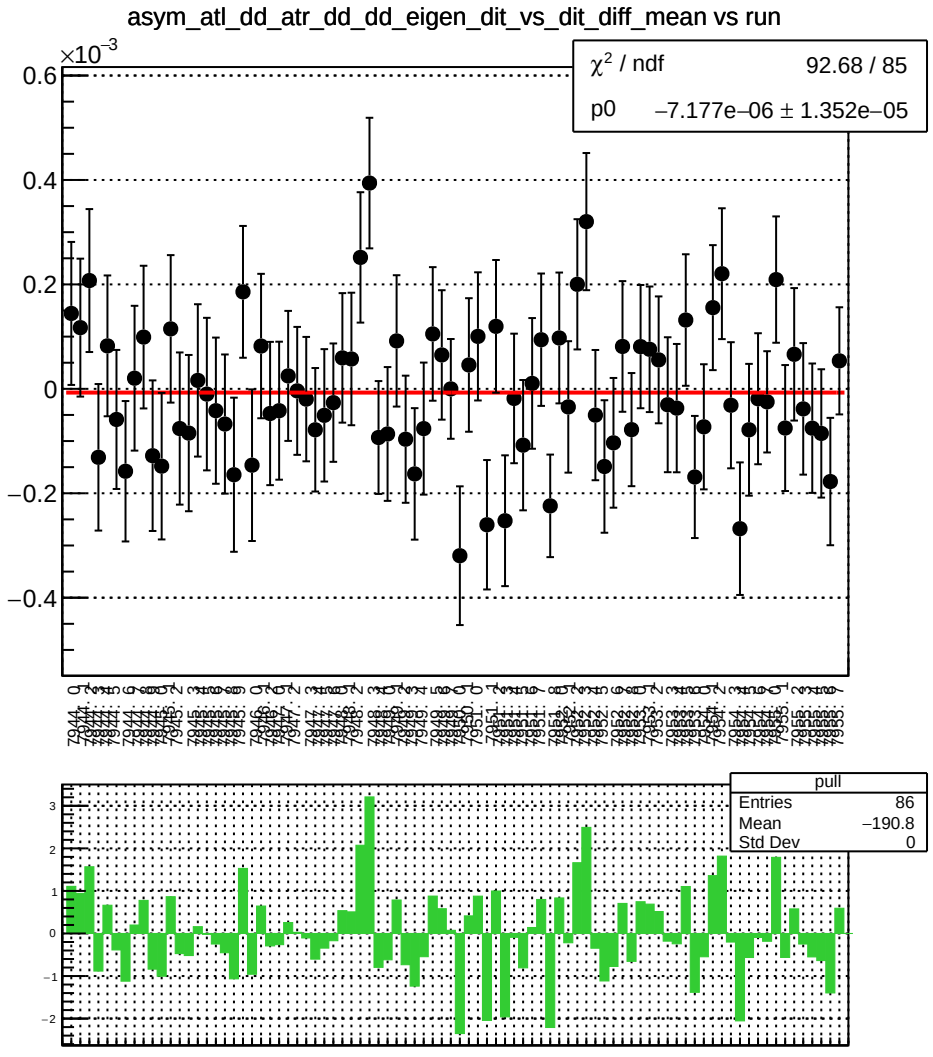

pull1D
Entries 86
Mean −0.04056
Std Dev 1.024

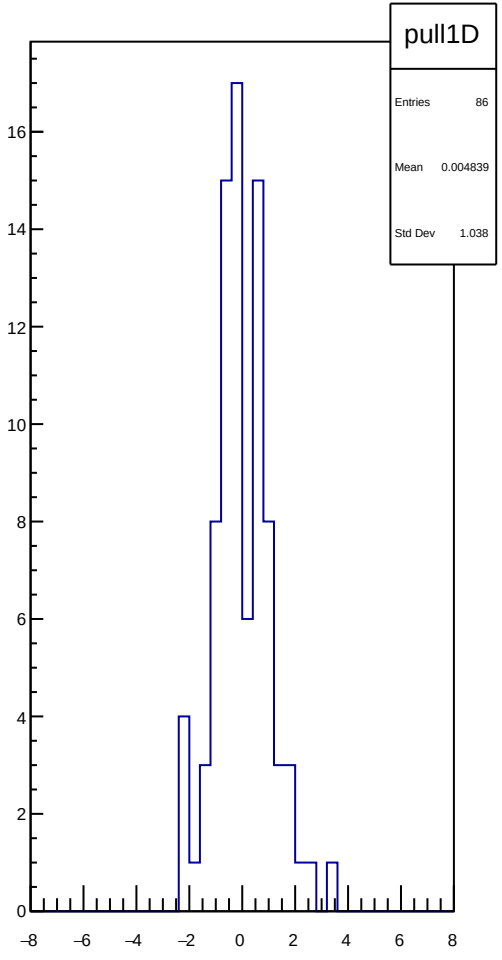

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.433e+05 / 85
p0 49.18 ± 0.04048
120
100
80
60
40
20

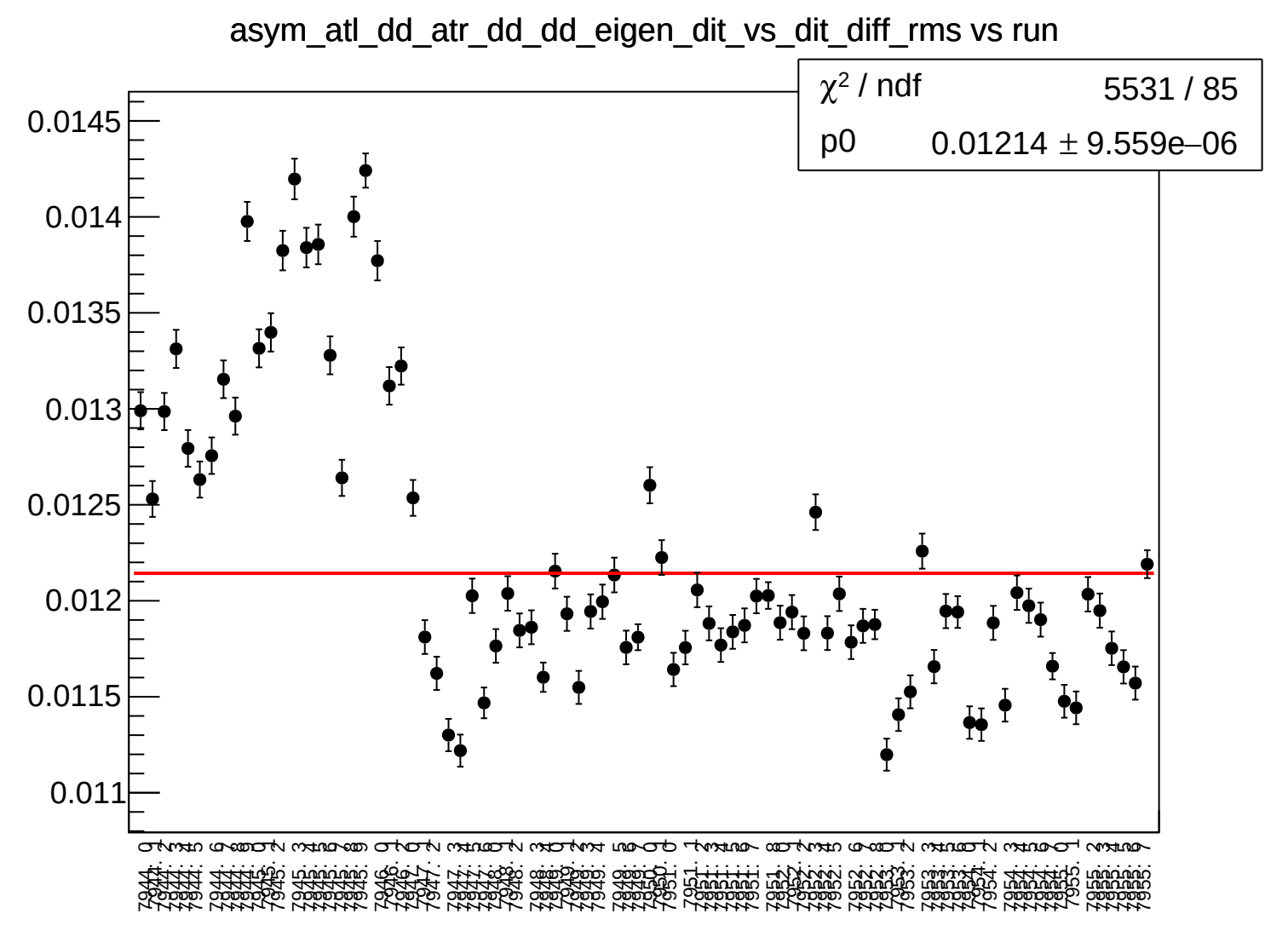

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.3 / 85
p0 −0.08075 ± 0.05725
pull
Entries 86
Mean −41.83
Std Dev 0

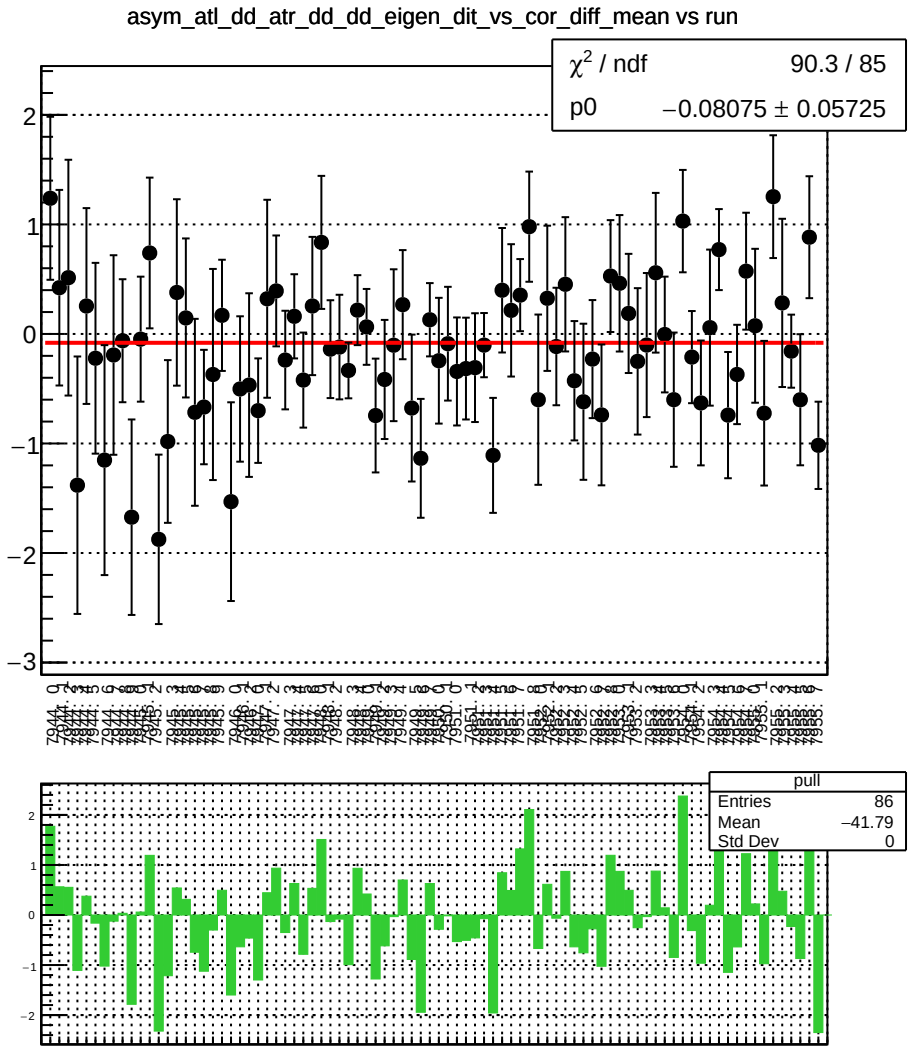

pull1D
Entries 86
Mean −0.04056
Std Dev 1.024

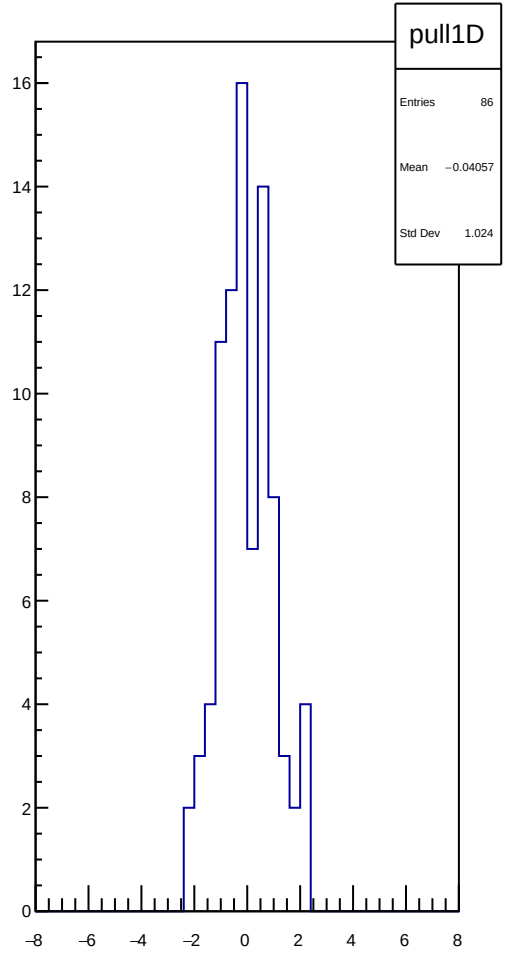

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.433e+05 / 85
p0 49.18 ± 0.04048
120
100
80
60
40
20

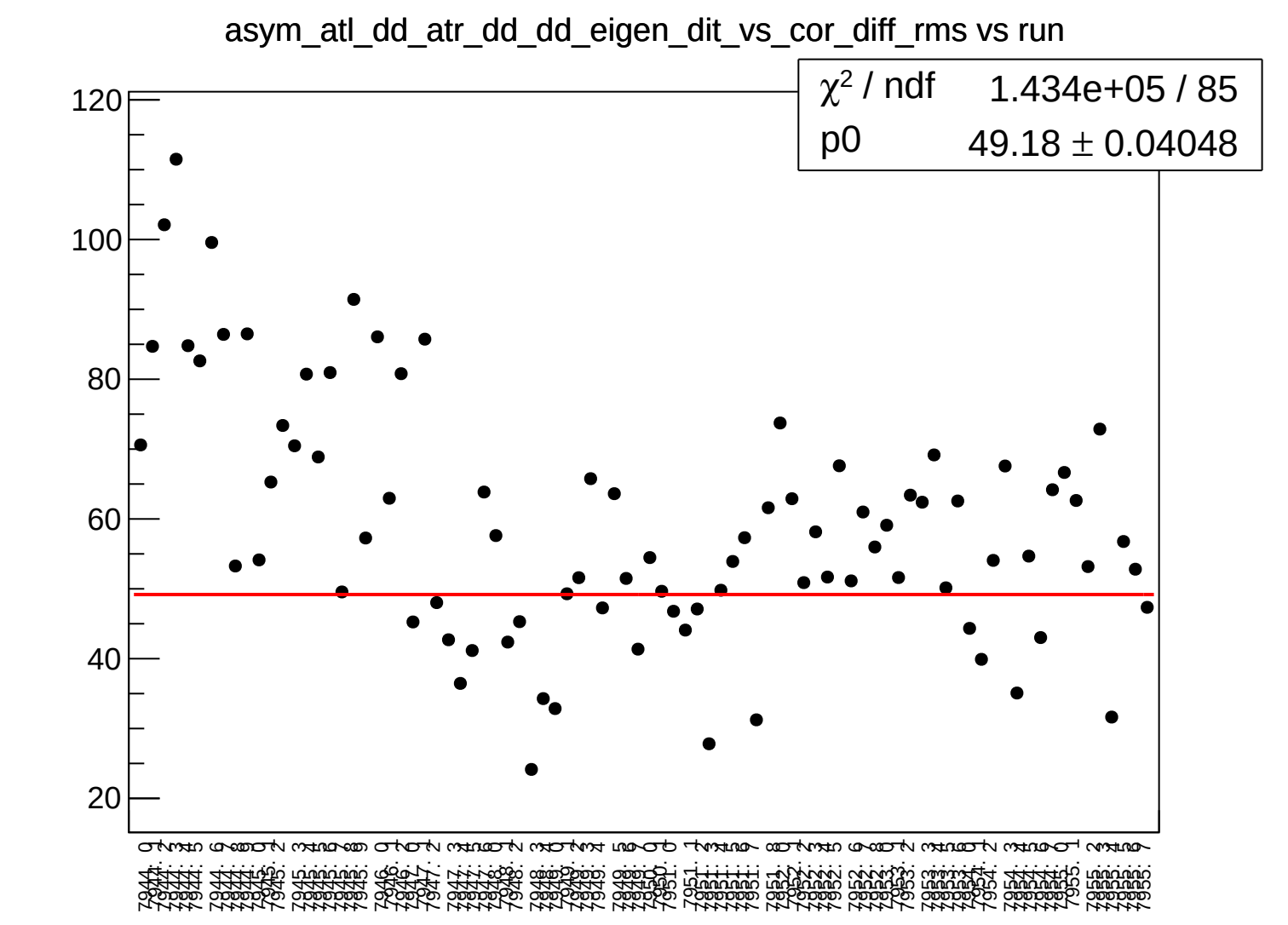

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.68 / 85
p0 −7.177e−06 ± 1.352e−05
pull
Entries 86
Mean −190.8
Std Dev 0

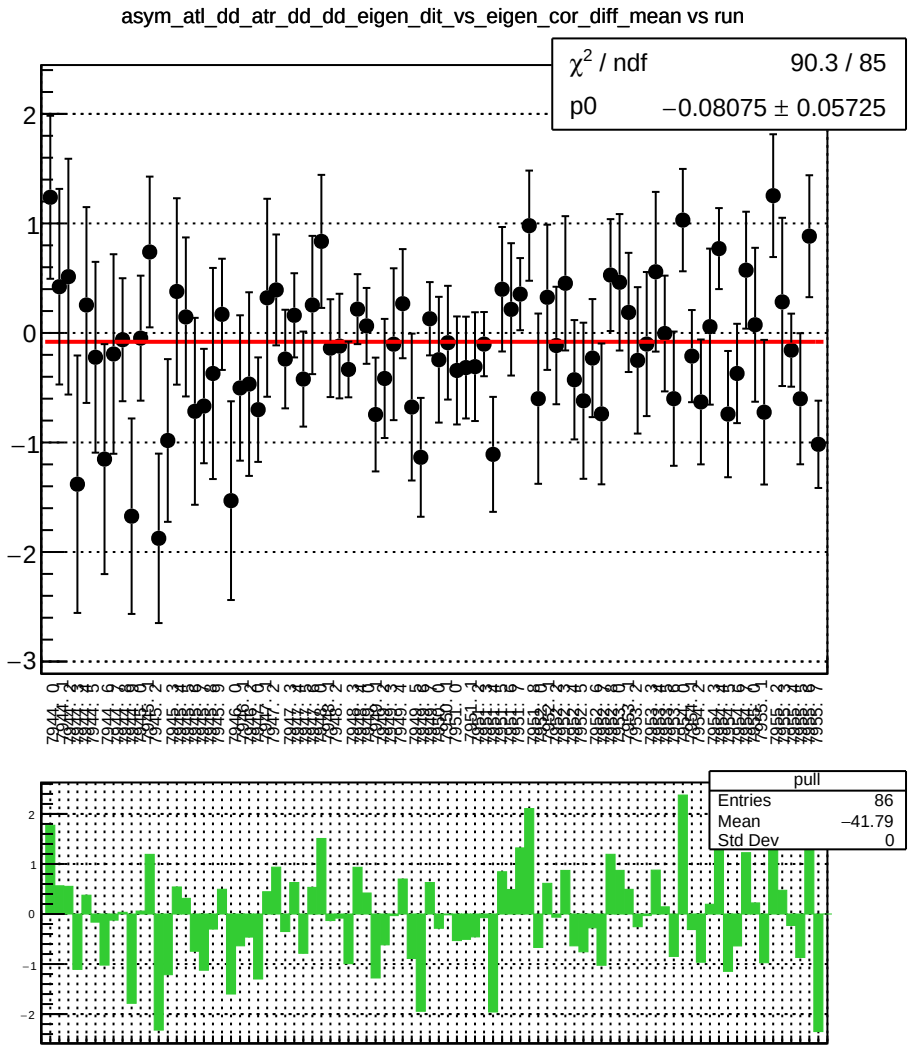

pull1D
Entries 86
Mean 0.004839
Std Dev 1.038

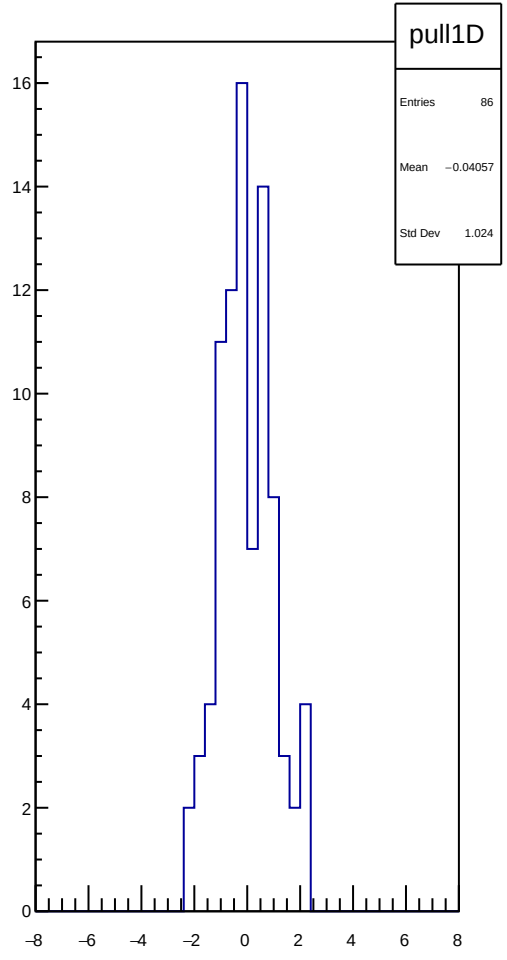

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5531 / 85
p0 0.01214 ± 9.559e−06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011

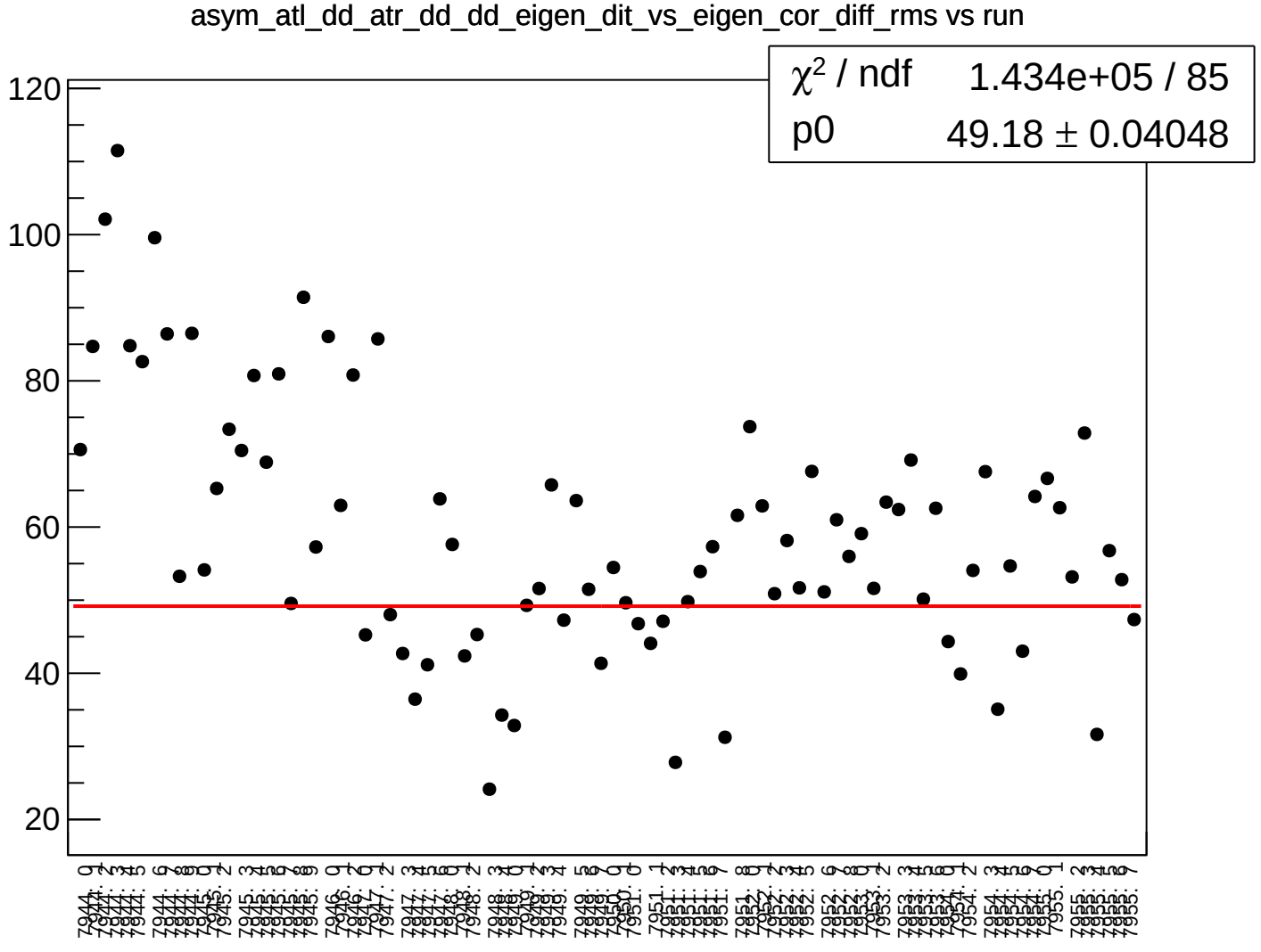

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.3 / 85
p0 −0.08075 ± 0.05725
pull
Entries 86
Mean −41.79
Std Dev 0

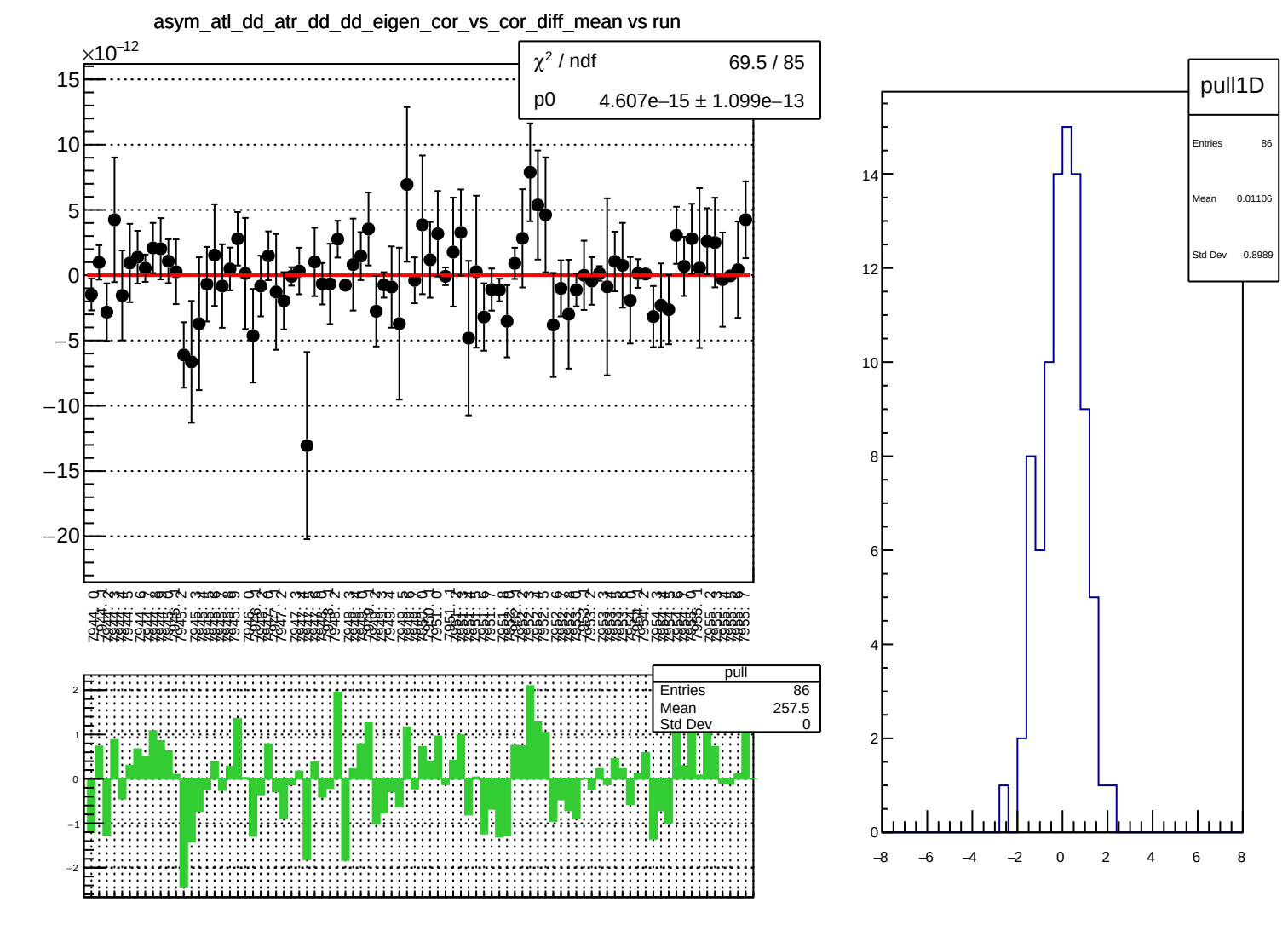

pull1D
Entries 86
Mean −0.04057
Std Dev 1.024

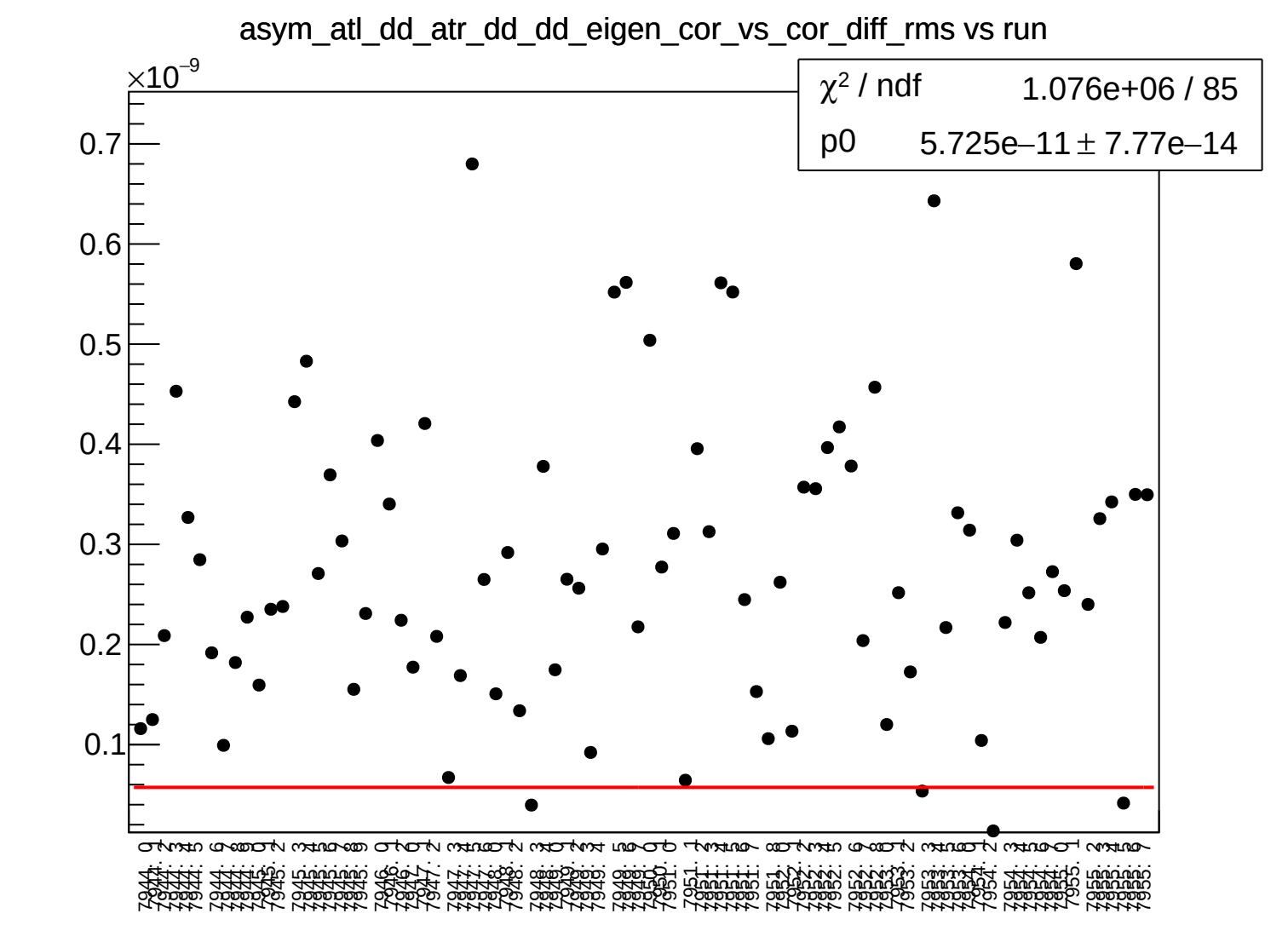

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.434e+05 / 85
p0 49.18 ± 0.04048
120
100
80
60
40
20

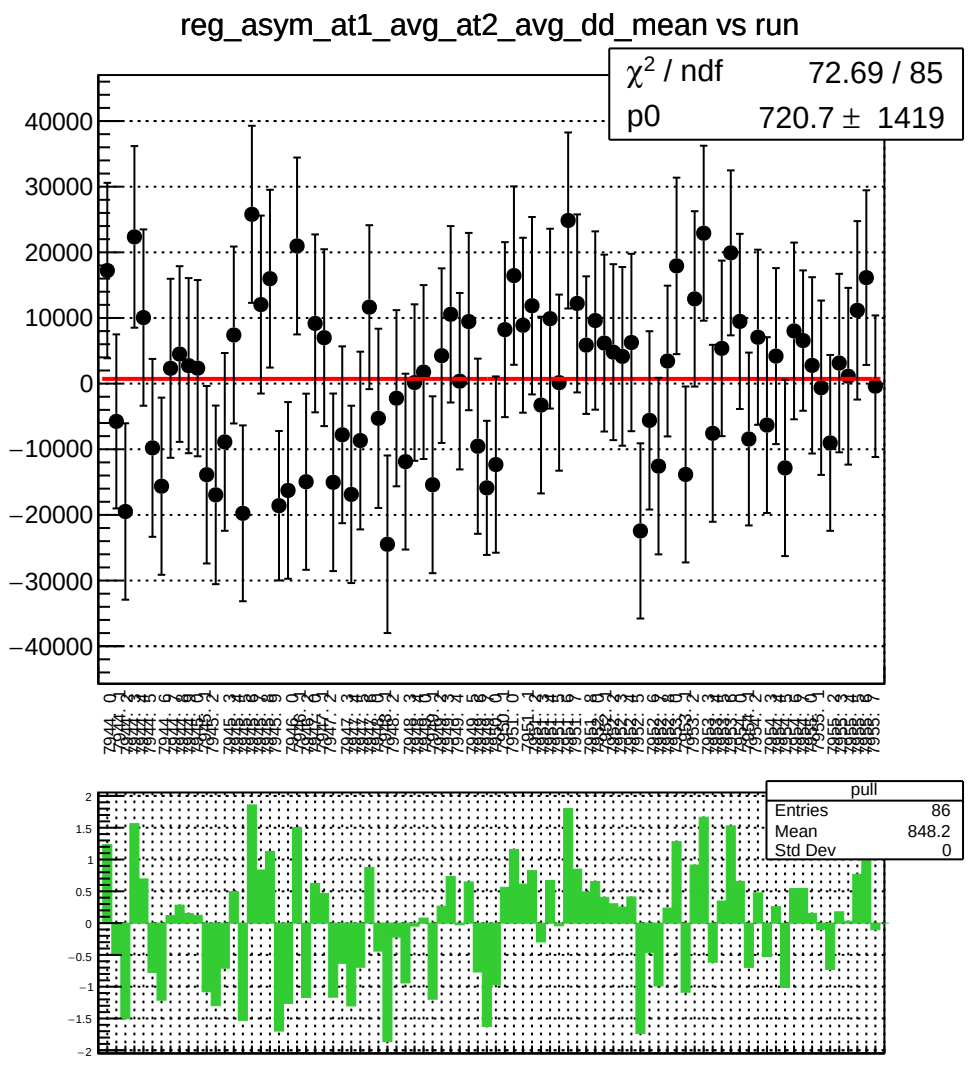

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.3 / 85
p0 −0.08075 ± 0.05725
pull
Entries 86
Mean −41.79
Std Dev 0

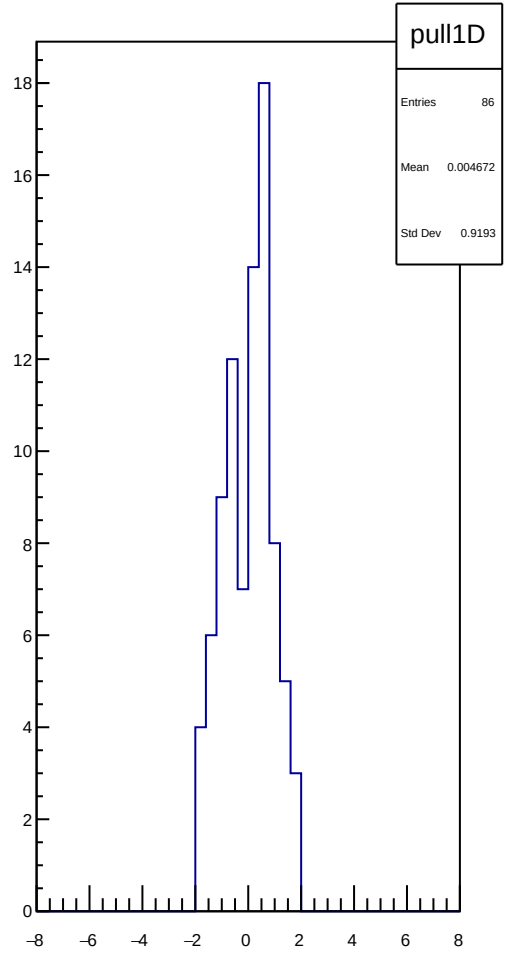

pull1D
Entries 86
Mean −0.04057
Std Dev 1.024

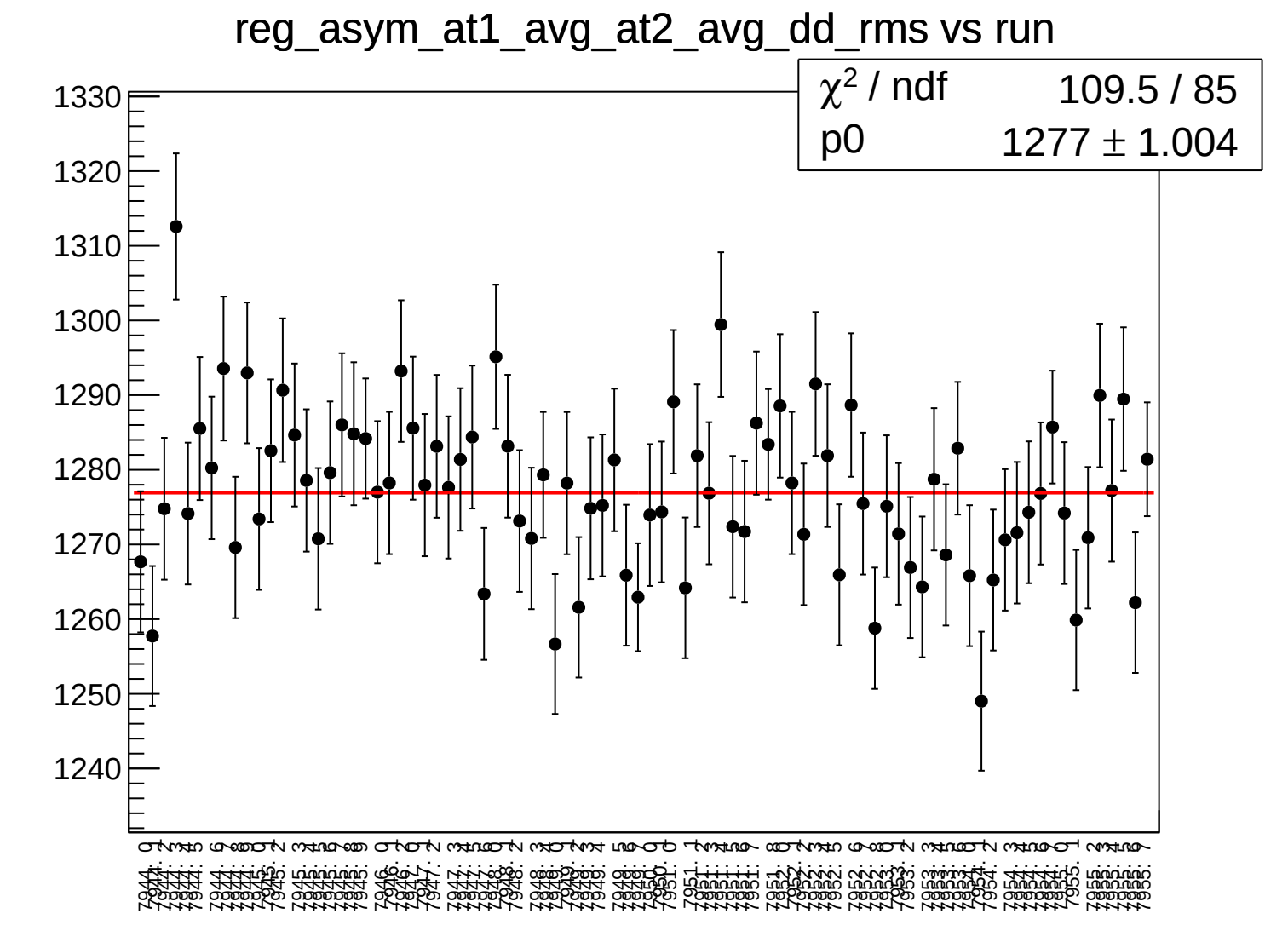

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.434e+05 / 85
p0 49.18 ± 0.04048
120
100
80
60
40
20

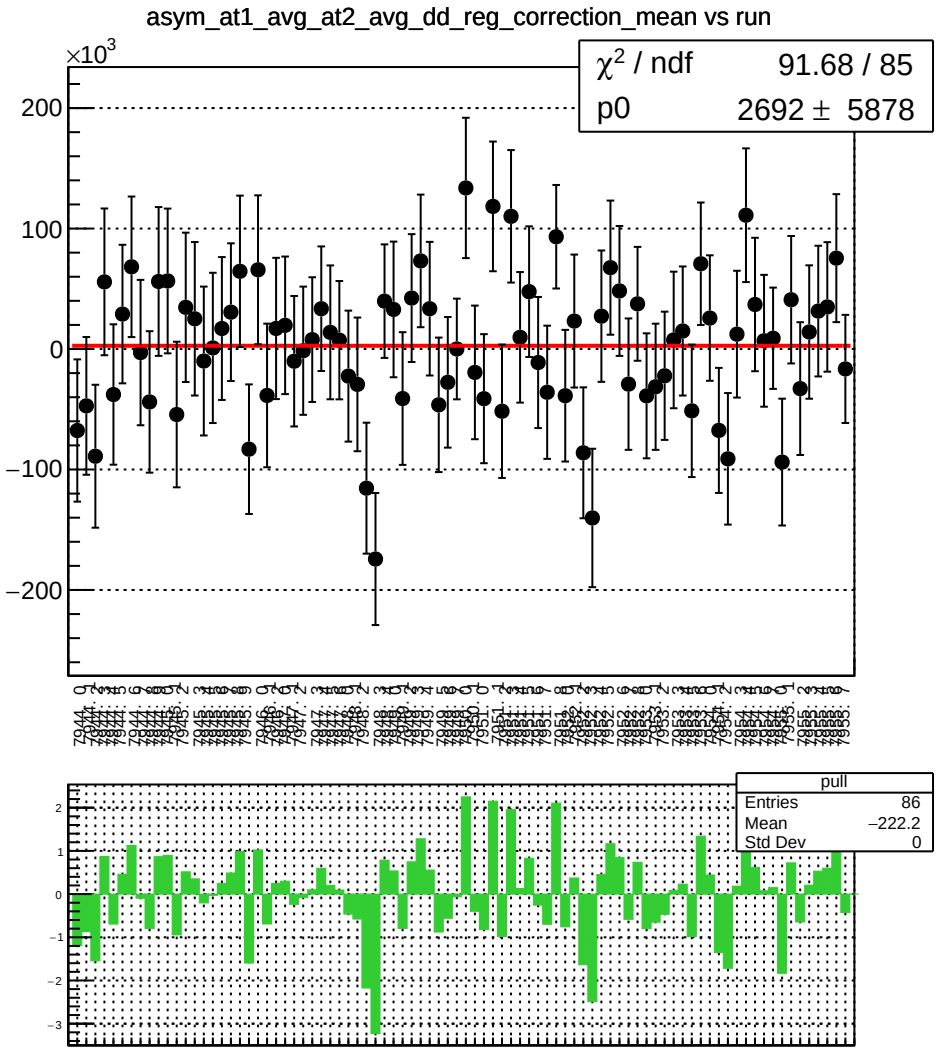

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.5 / 85
p0 4.607e−15 ± 1.099e−13
pull
Entries 86
Mean 257.5
Std Dev 0
pull1D
Entries 86
Mean 0.01106
Std Dev 0.8989

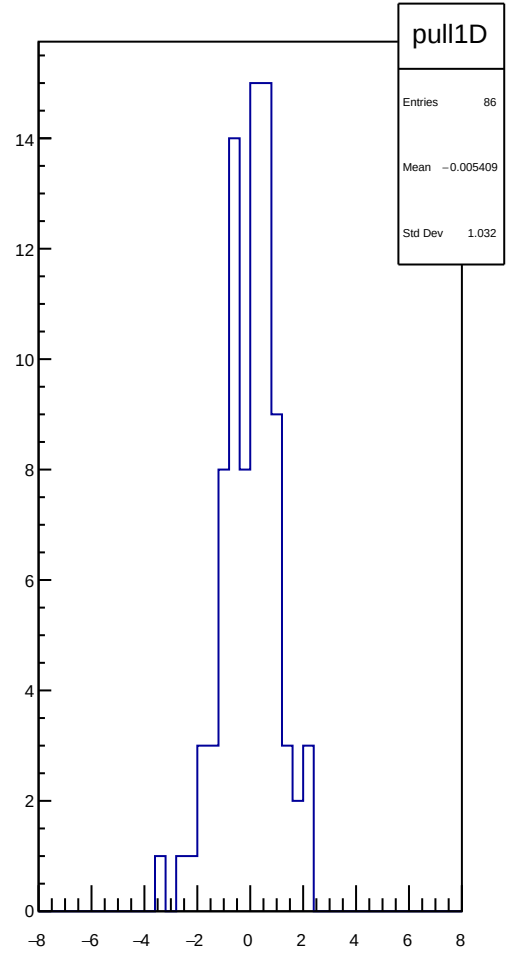

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.076e+06 / 85
p0 5.725e−11 ± 7.77e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

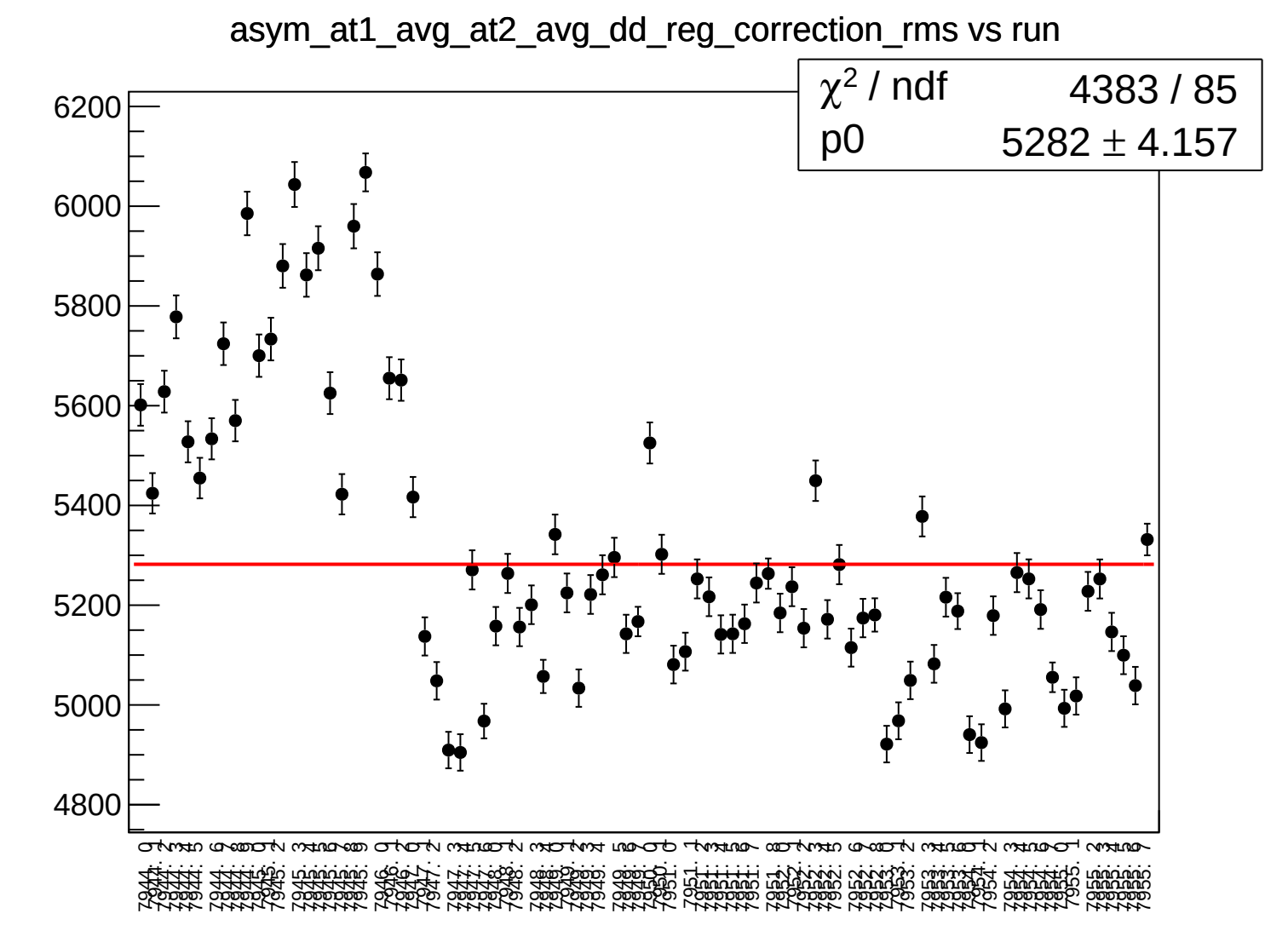

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 72.69 / 85
p0 720.7 ± 1419
pull
Entries 86
Mean 848.2
Std Dev 0

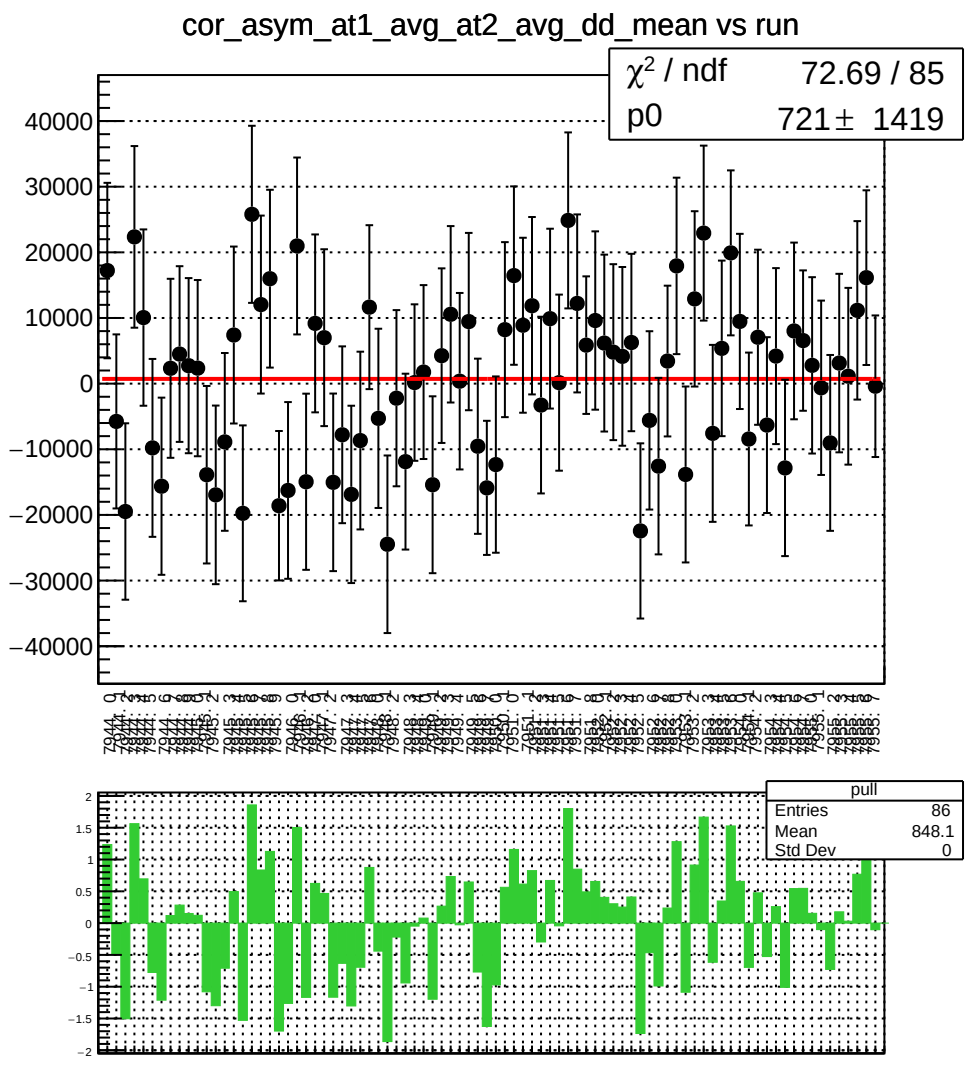

pull1D
Entries 86
Mean 0.004672
Std Dev 0.9193

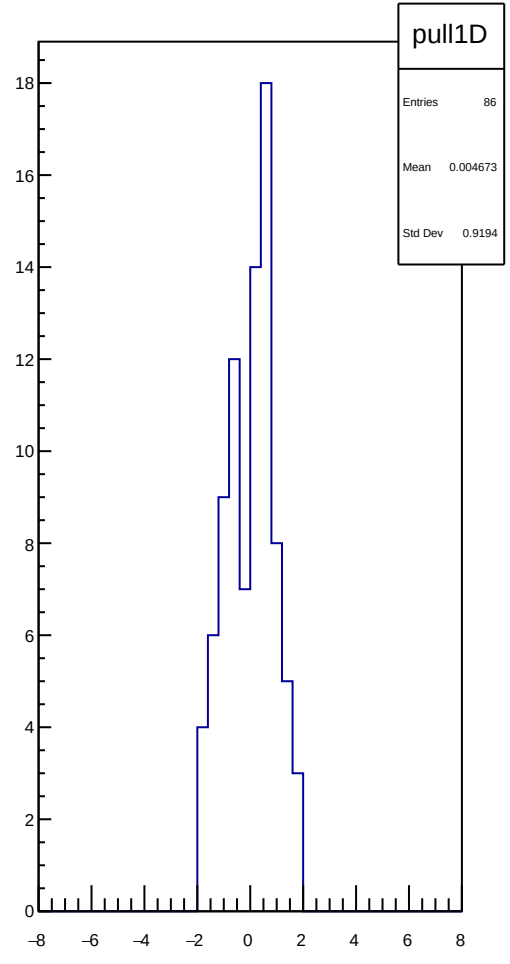

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 109.5 / 85
p0 1277 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

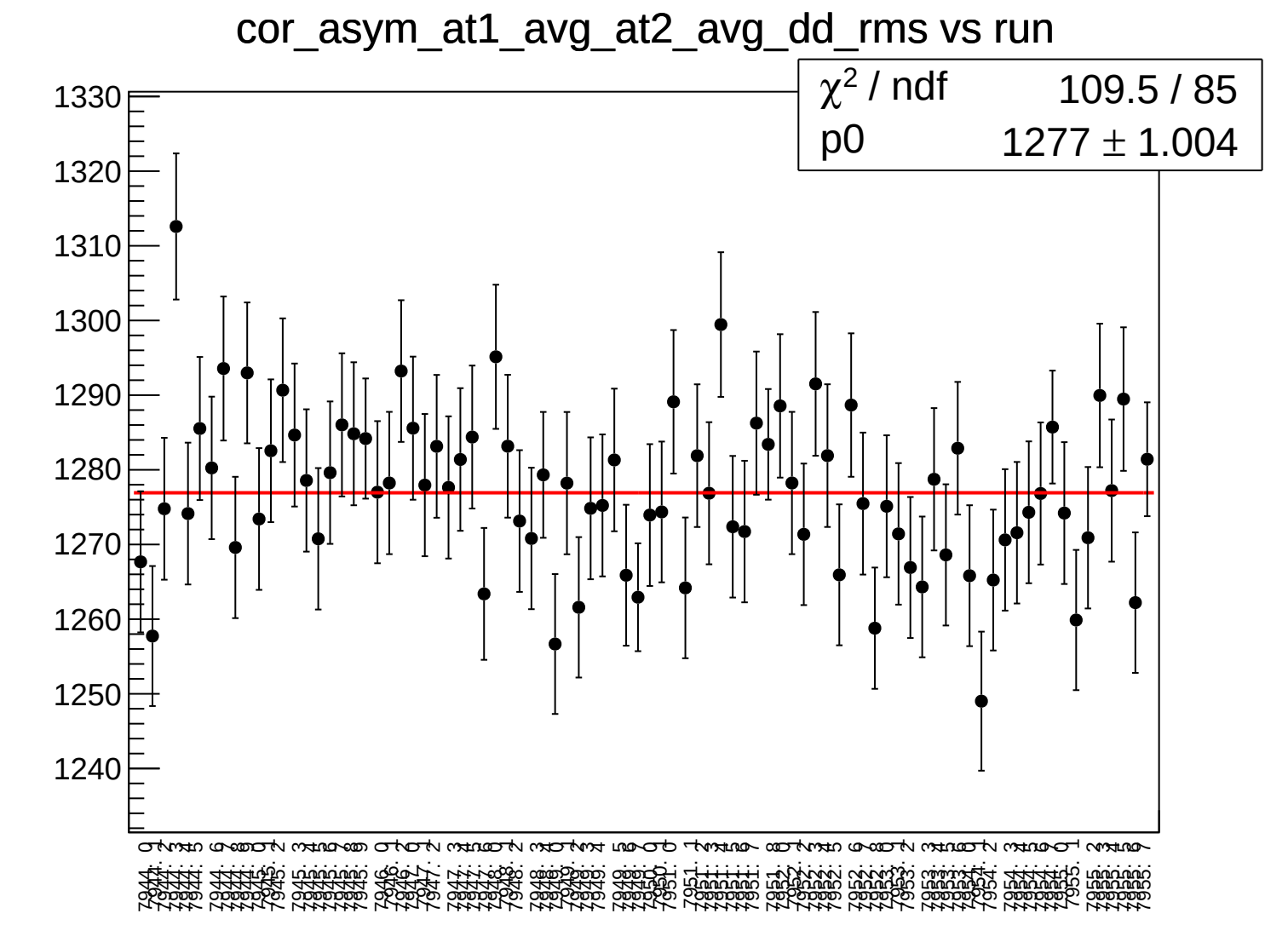

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.68 / 85
p0 2692 ± 5878
200
100
0
−100
−200
pull
Entries 86
Mean −222.2
Std Dev 0
2
1
0
−1
−2
−3

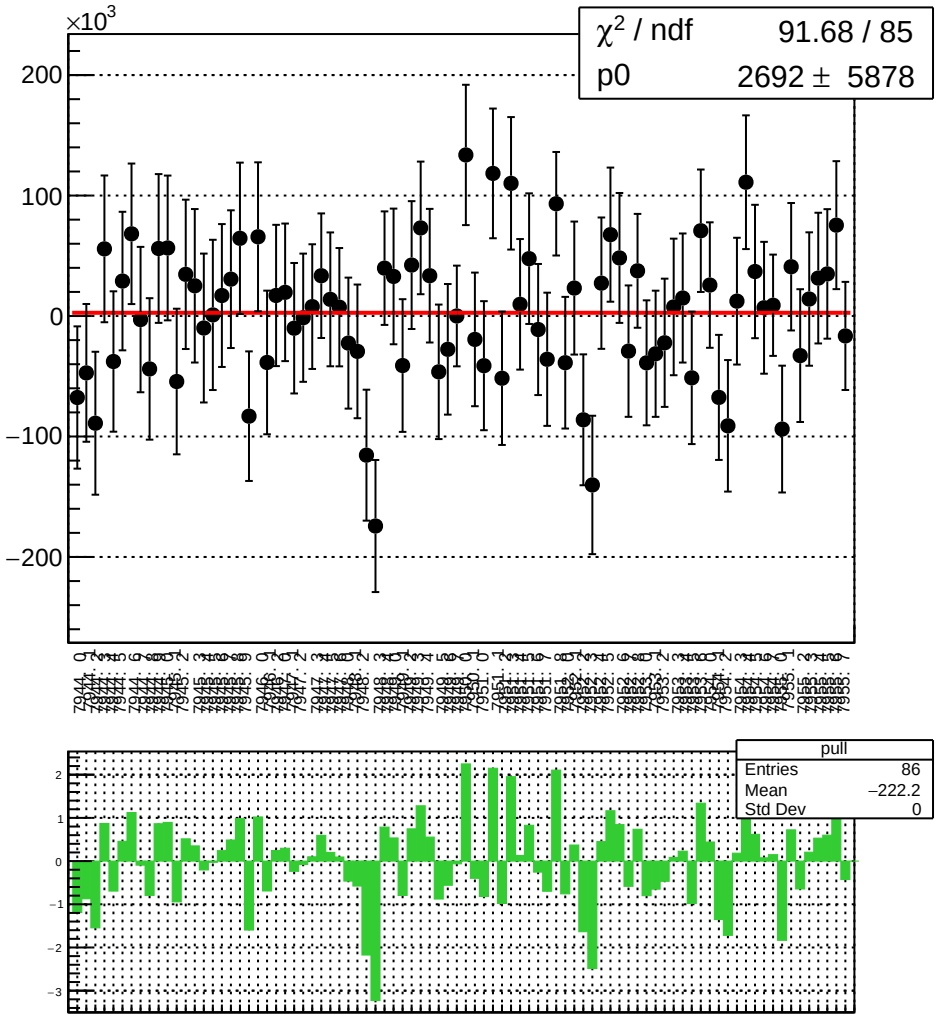

pull1D
Entries 86
Mean −0.005409
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

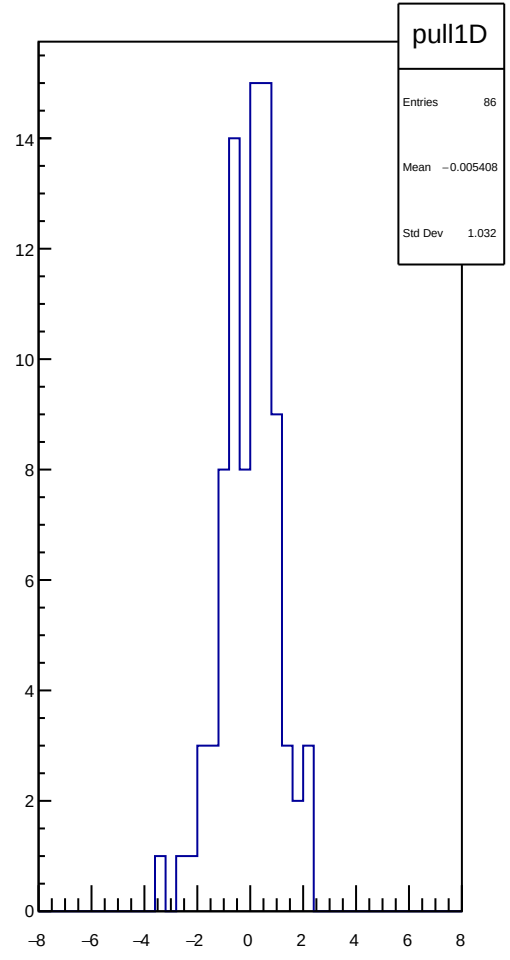

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 4383 / 85
p0 5282 ± 4.157
6200
6000
5800
5600
5400
5200
5000
4800

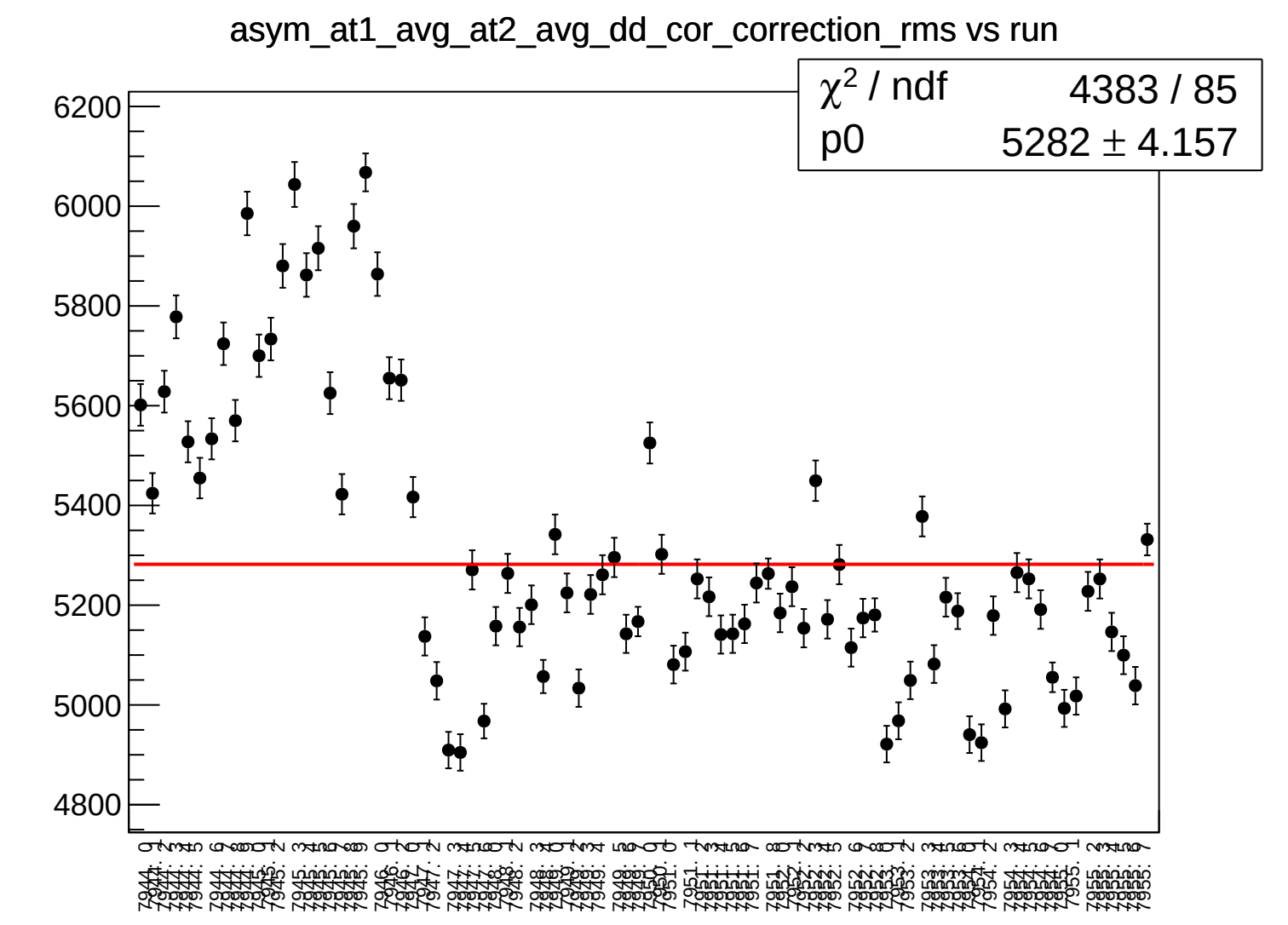

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 72.69 / 85
p0 721 ± 1419
pull
Entries 86
Mean 848.1
Std Dev 0

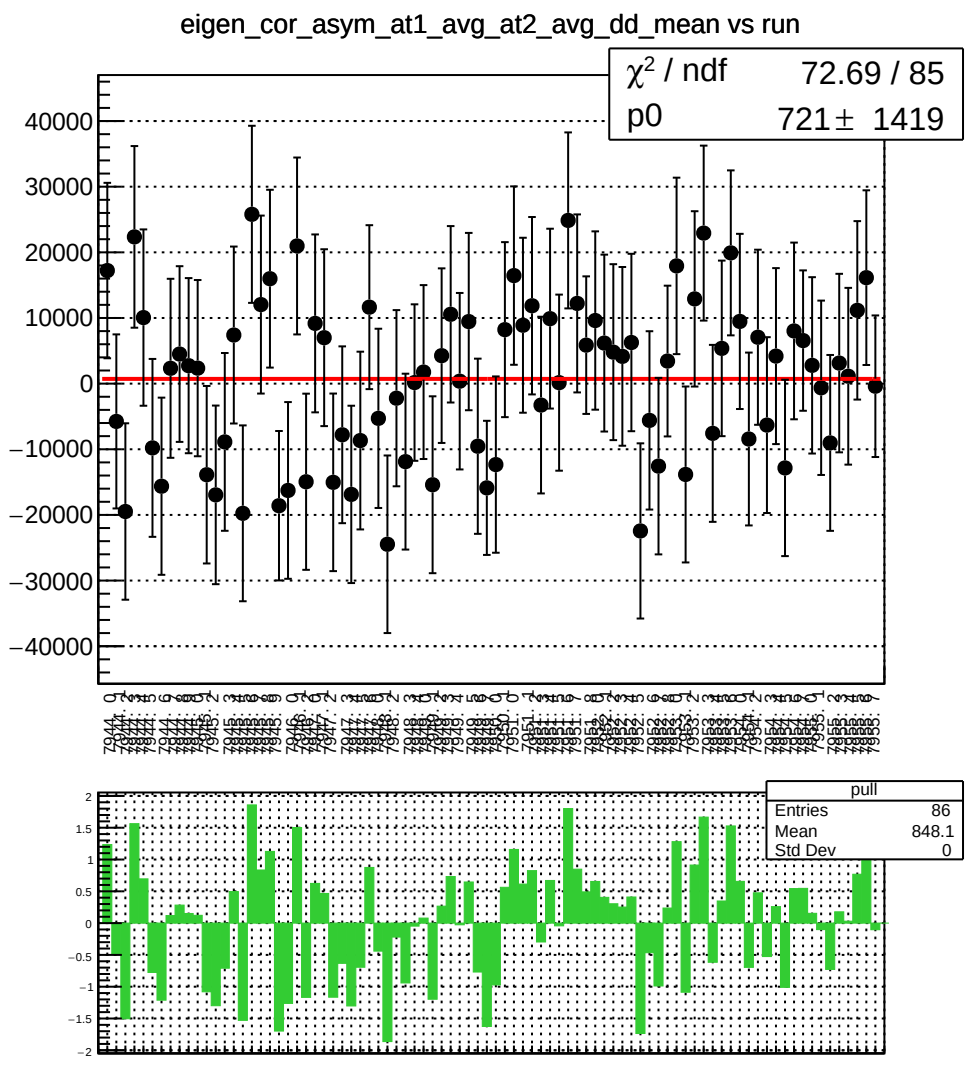

pull1D
Entries 86
Mean 0.004673
Std Dev 0.9194

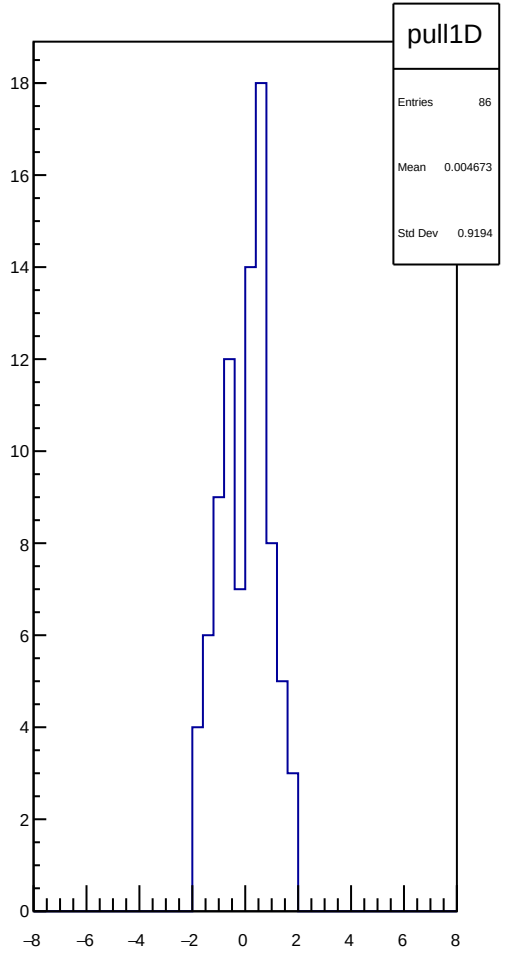

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 109.5 / 85
p0 1277 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

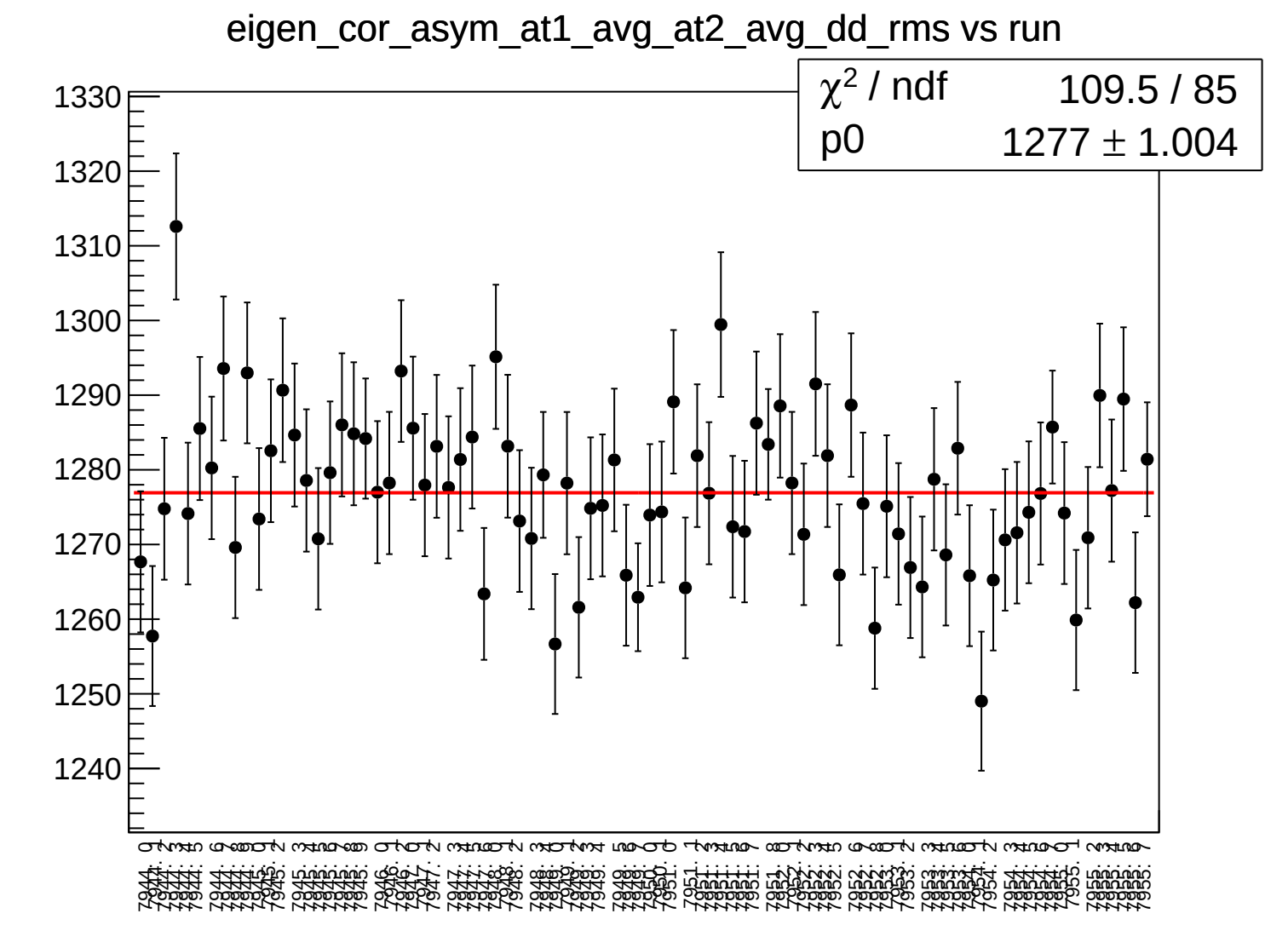

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.68 / 85
p0 2692 ± 5878
200
100
0
−100
−200
pull
Entries 86
Mean −222.2
Std Dev 0
2
1
0
−1
−2
−3

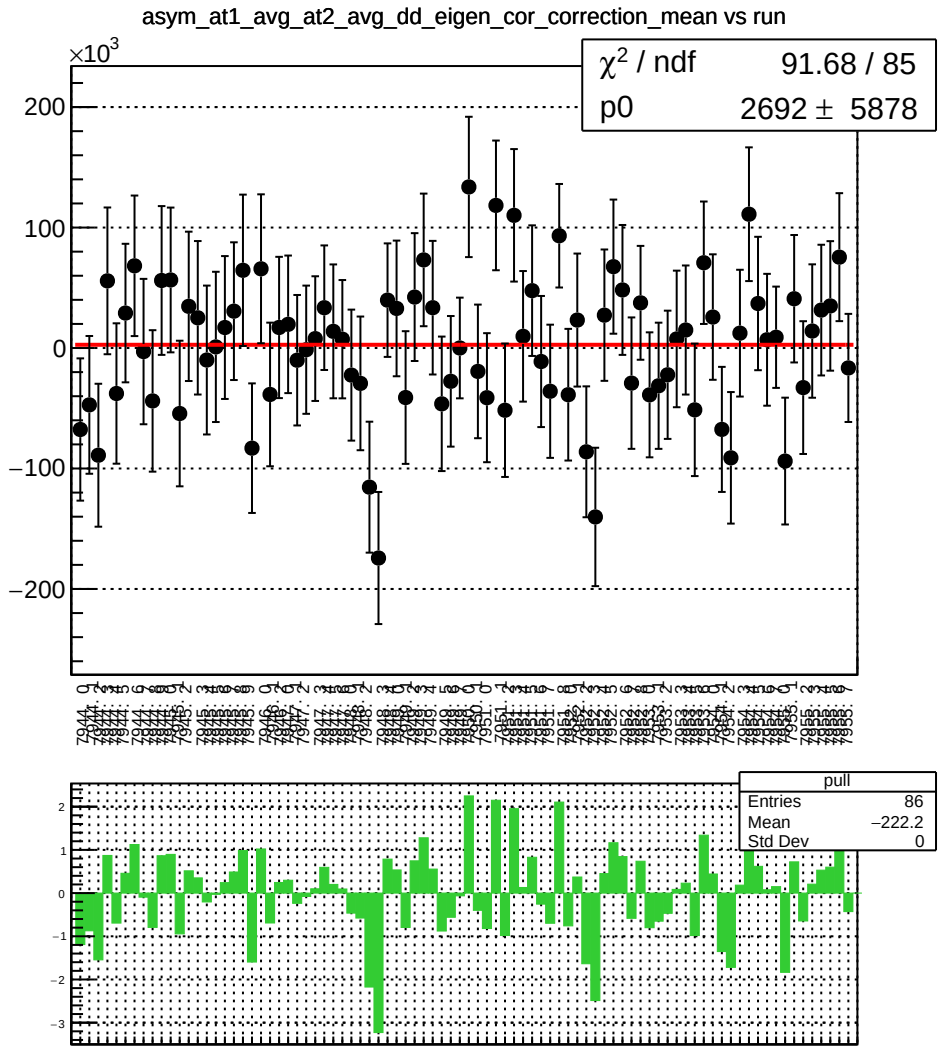

pull1D
Entries 86
Mean −0.005408
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

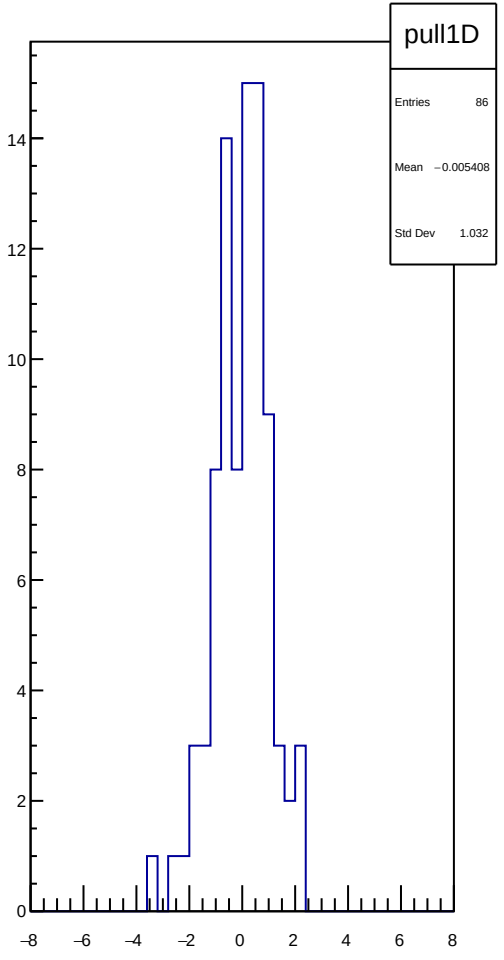

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 4383 / 85
p0 5282 ± 4.157
6200
6000
5800
5600
5400
5200
5000
4800

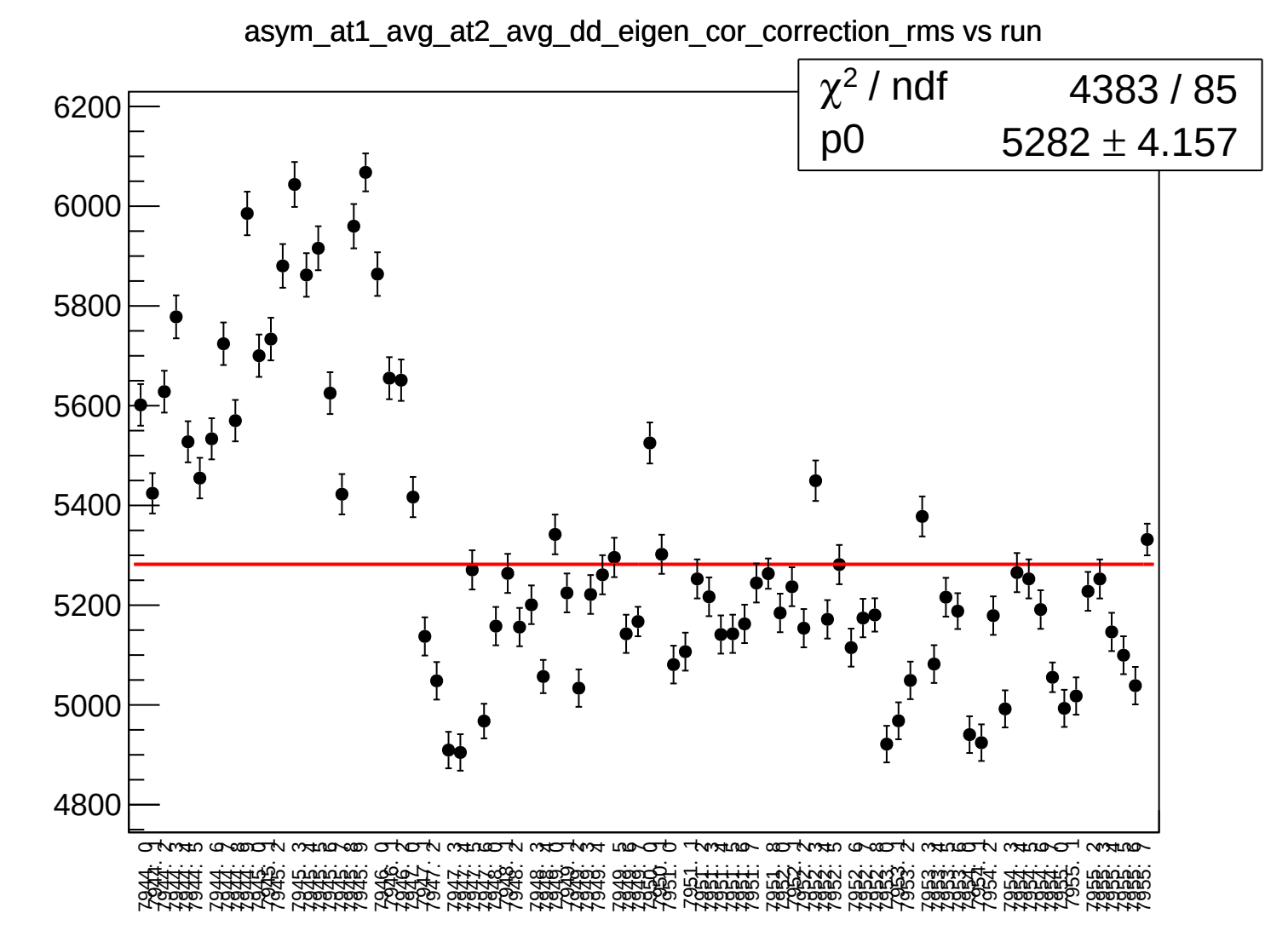

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 72.69 / 85
p0 721 ± 1419
pull
Entries 86
Mean 848.1
Std Dev 0

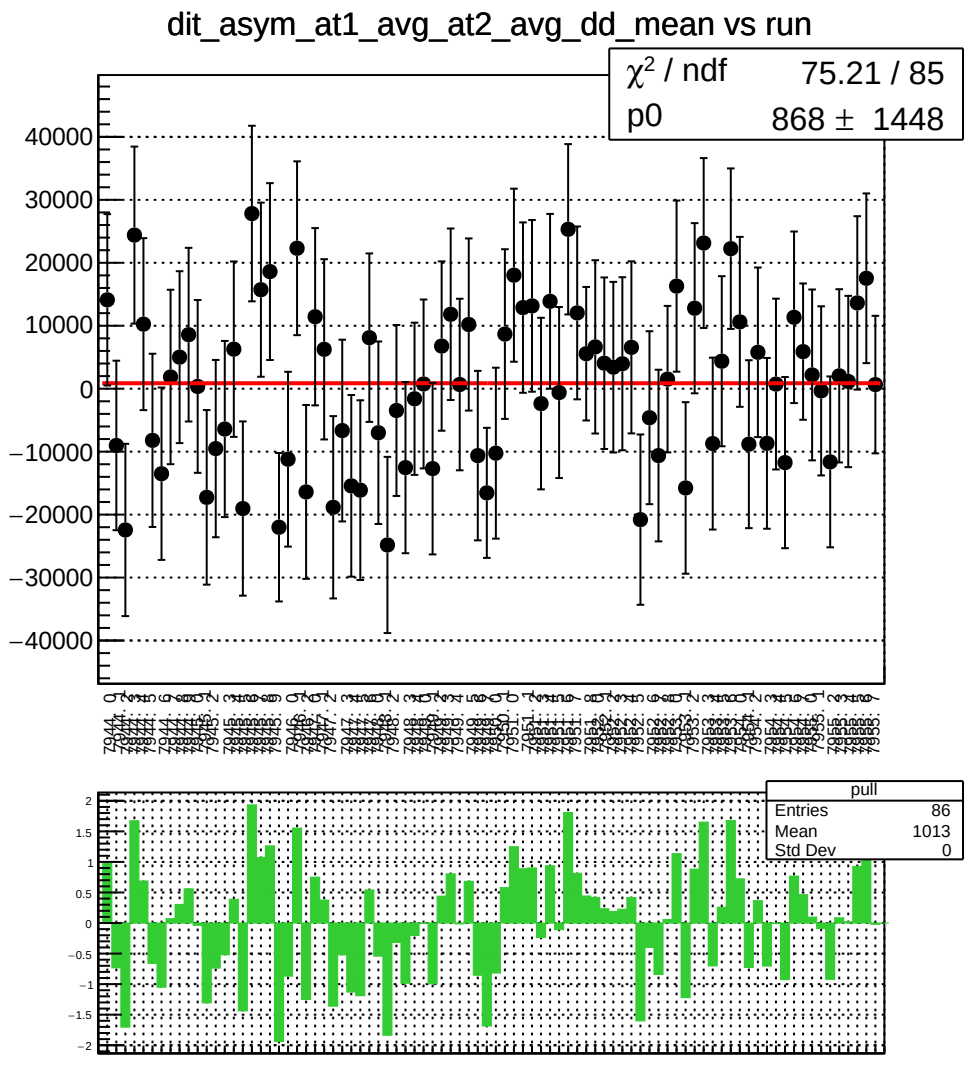

pull1D
Entries 86
Mean 0.004673
Std Dev 0.9194

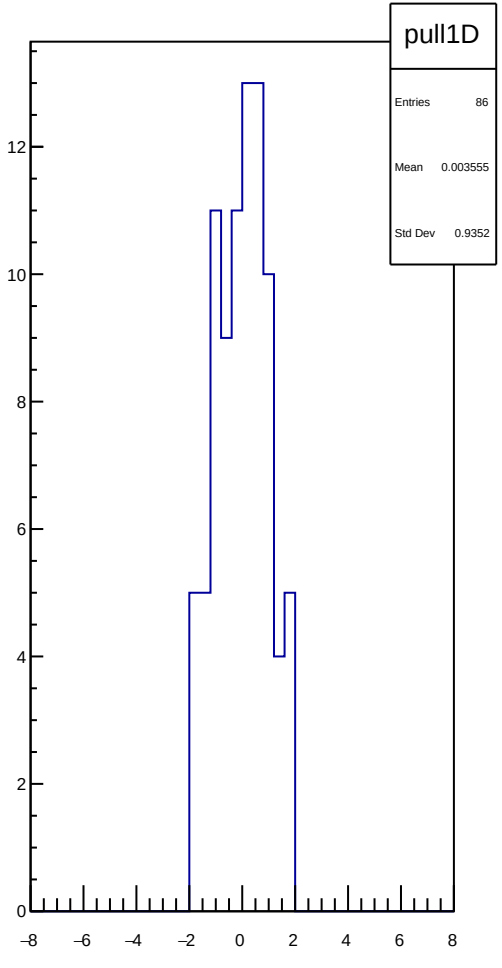

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 109.5 / 85
p0 1277 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

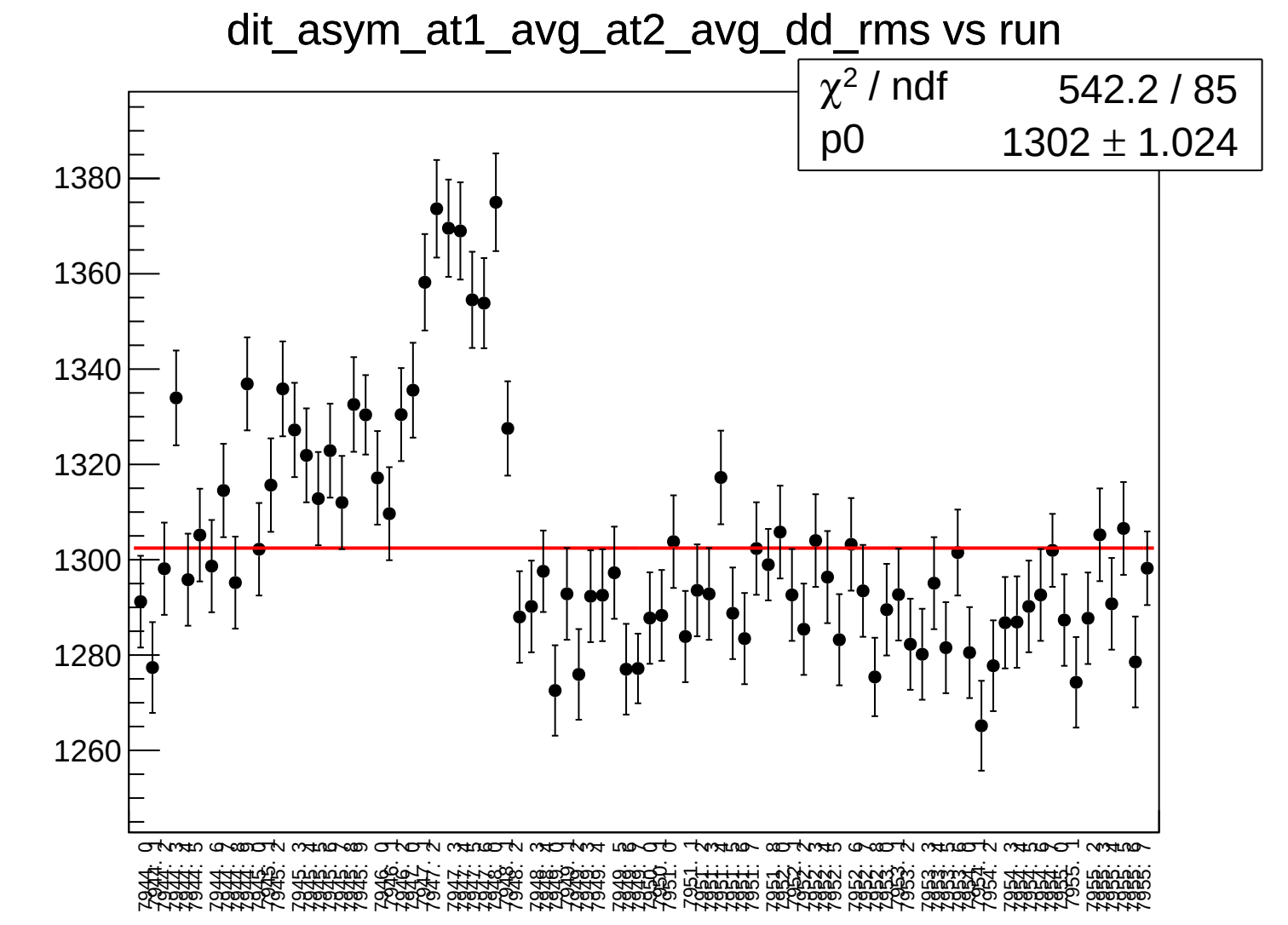

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.68 / 85
p0 2692 ± 5878
200
100
0
−100
−200
pull
Entries 86
Mean −222.2
Std Dev 0
2
1
0
−1
−2
−3

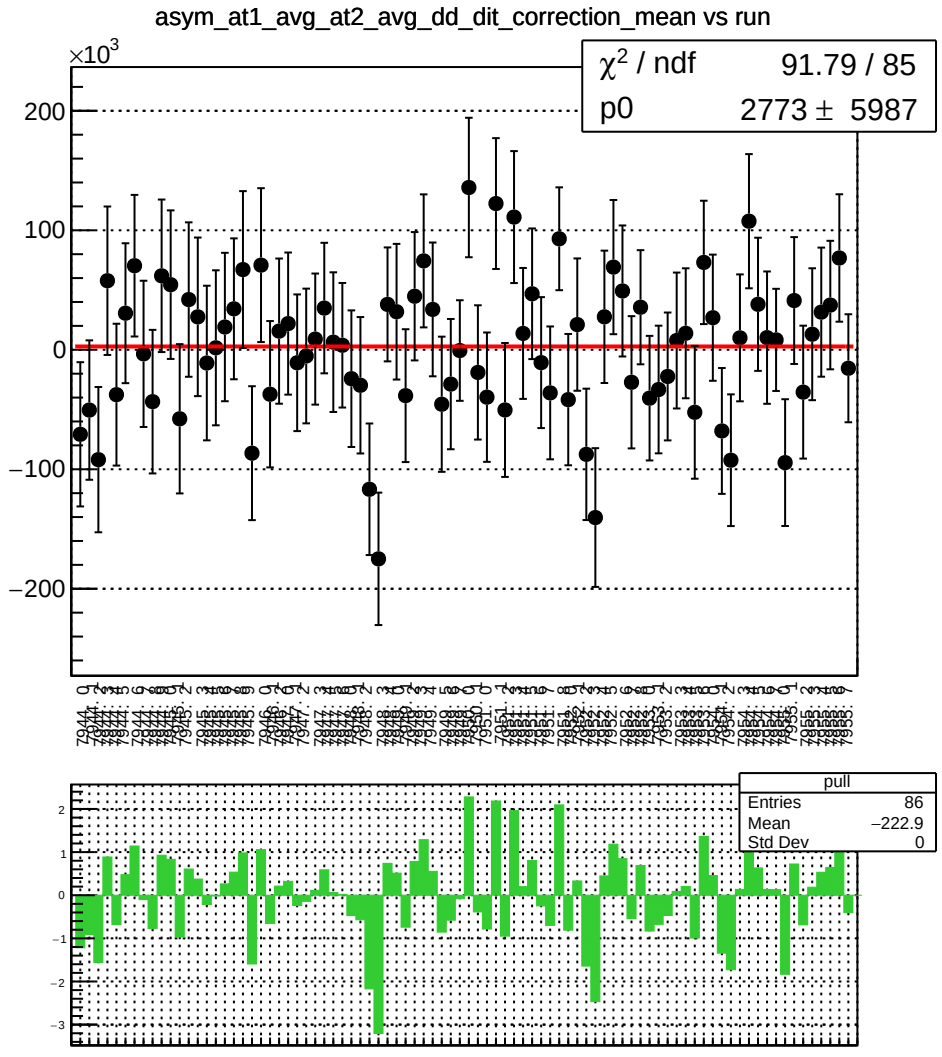

pull1D
Entries 86
Mean −0.005408
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

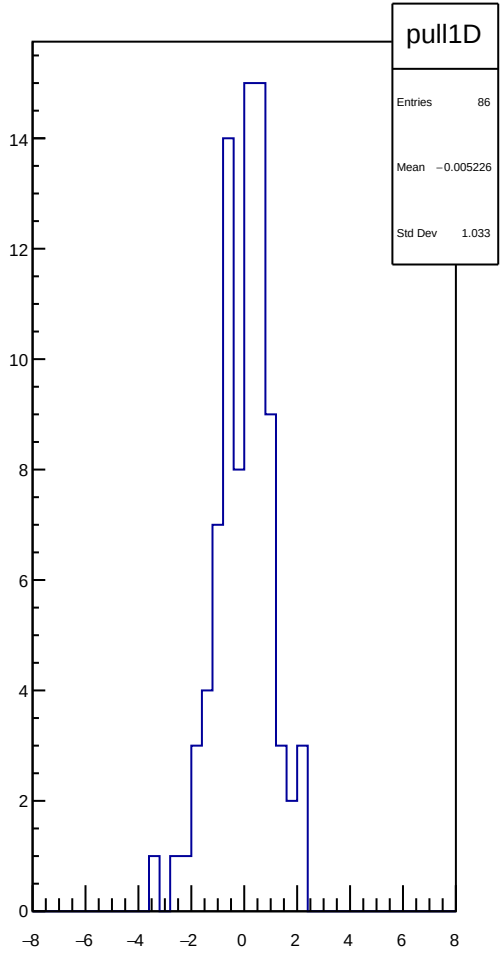

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4383 / 85
p0 5282 ± 4.157
6200
6000
5800
5600
5400
5200
5000
4800

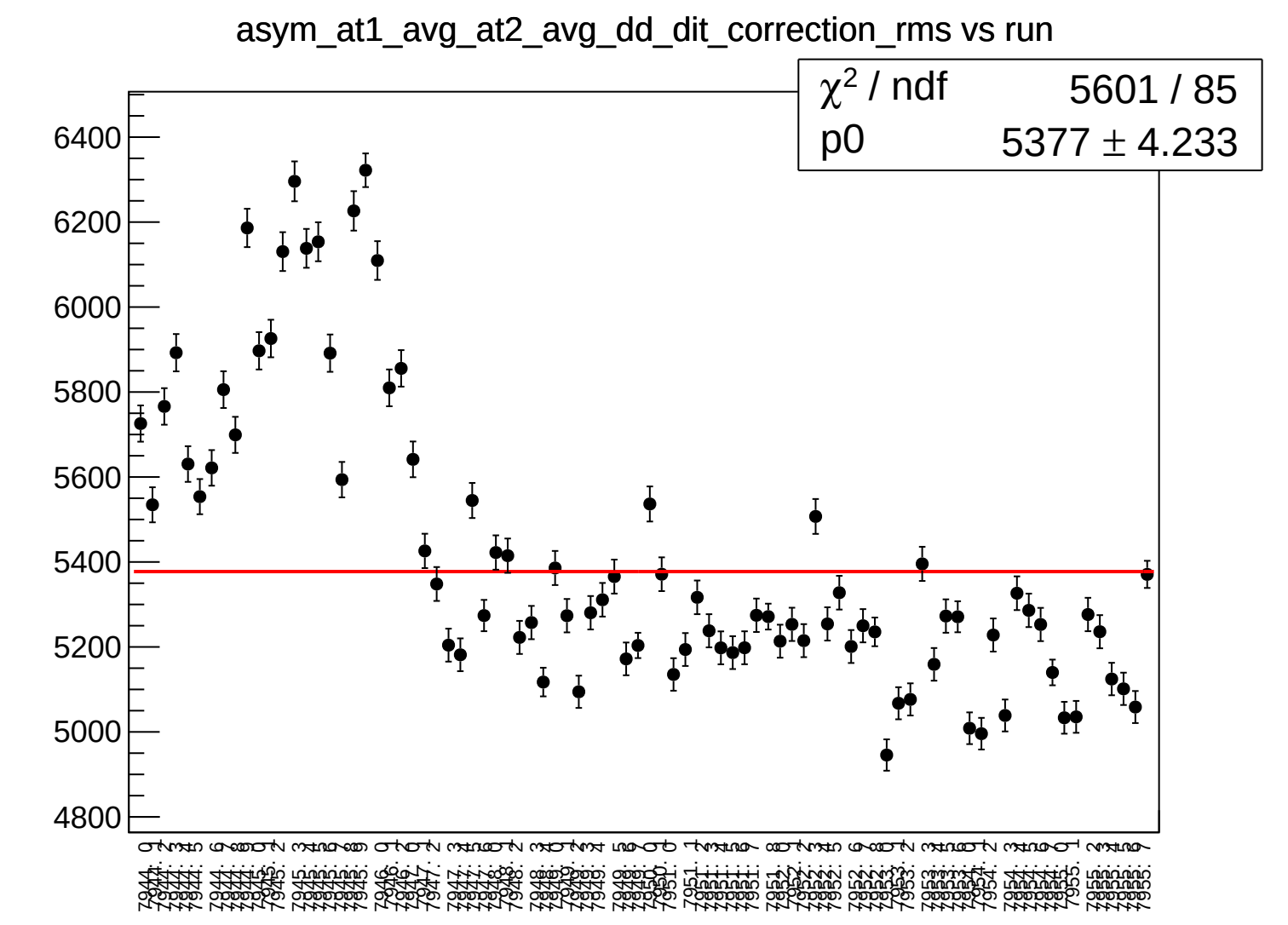

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 75.21 / 85
p0 868 ± 1448
pull
Entries 86
Mean 1013
Std Dev 0

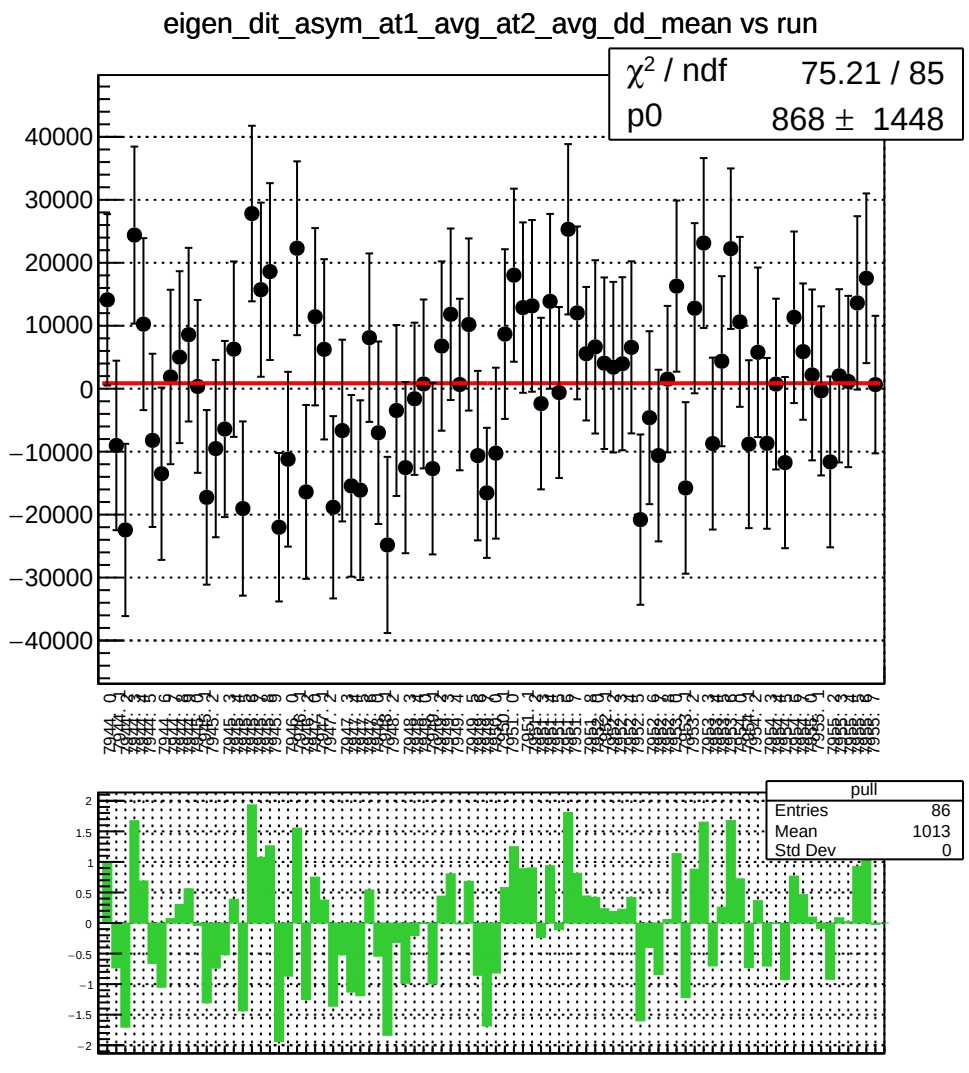

pull1D
Entries 86
Mean 0.003555
Std Dev 0.9352

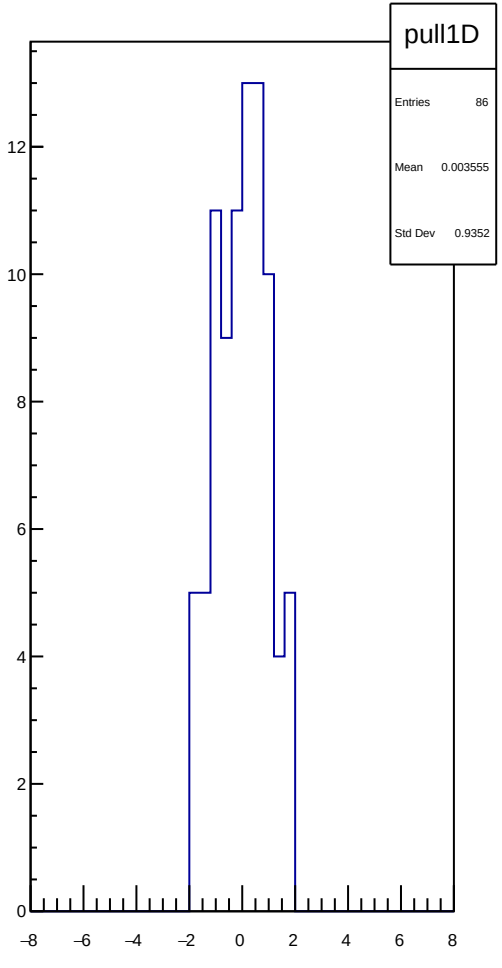

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 542.2 / 85
p0 1302 ± 1.024
1380
1360
1340
1320
1300
1280
1260

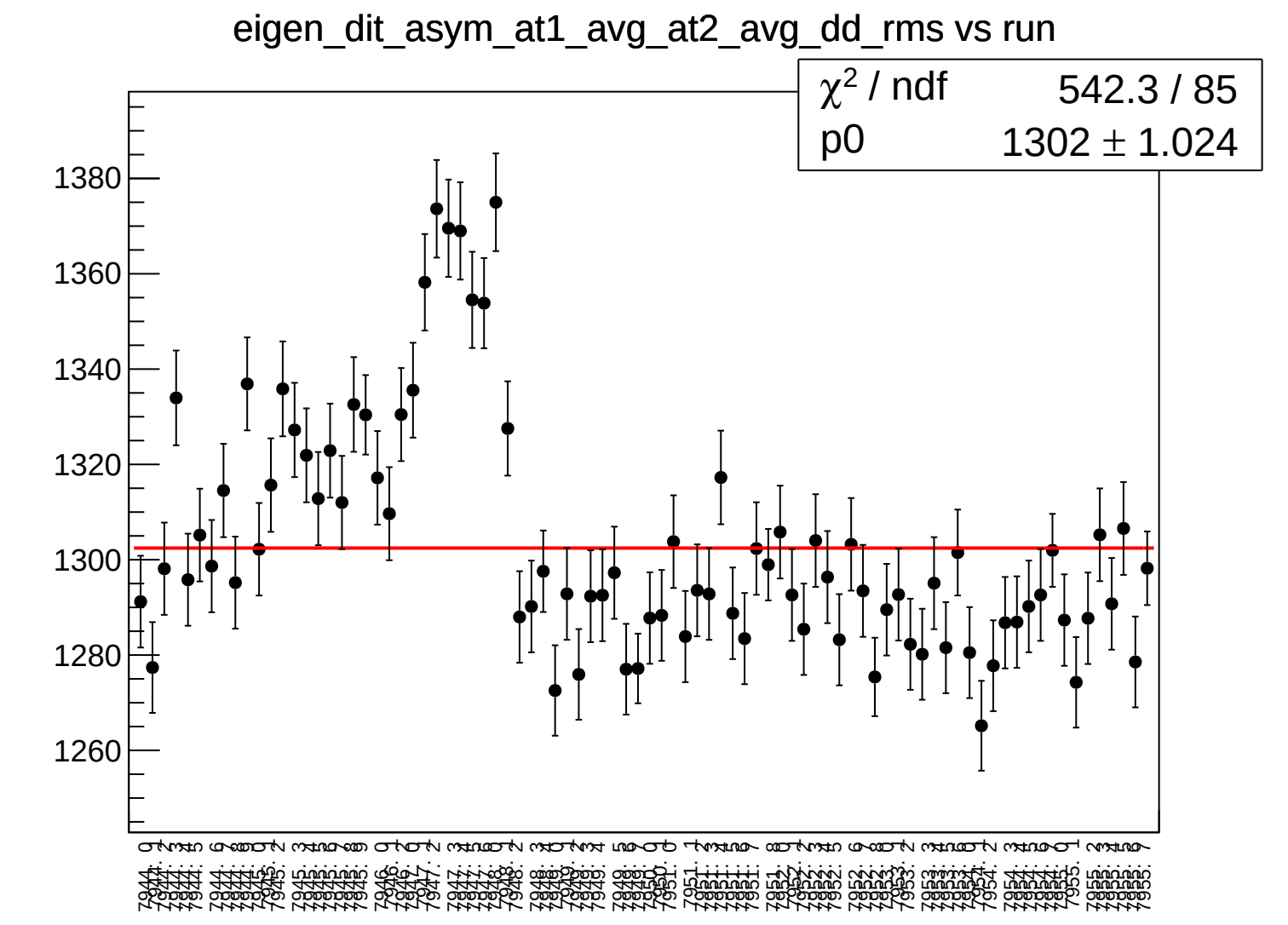

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 91.79 / 85
p0 2773 ± 5987
200
100
0
−100
−200
pull
Entries 86
Mean −222.9
Std Dev 0
2
1
0
−1
−2
−3

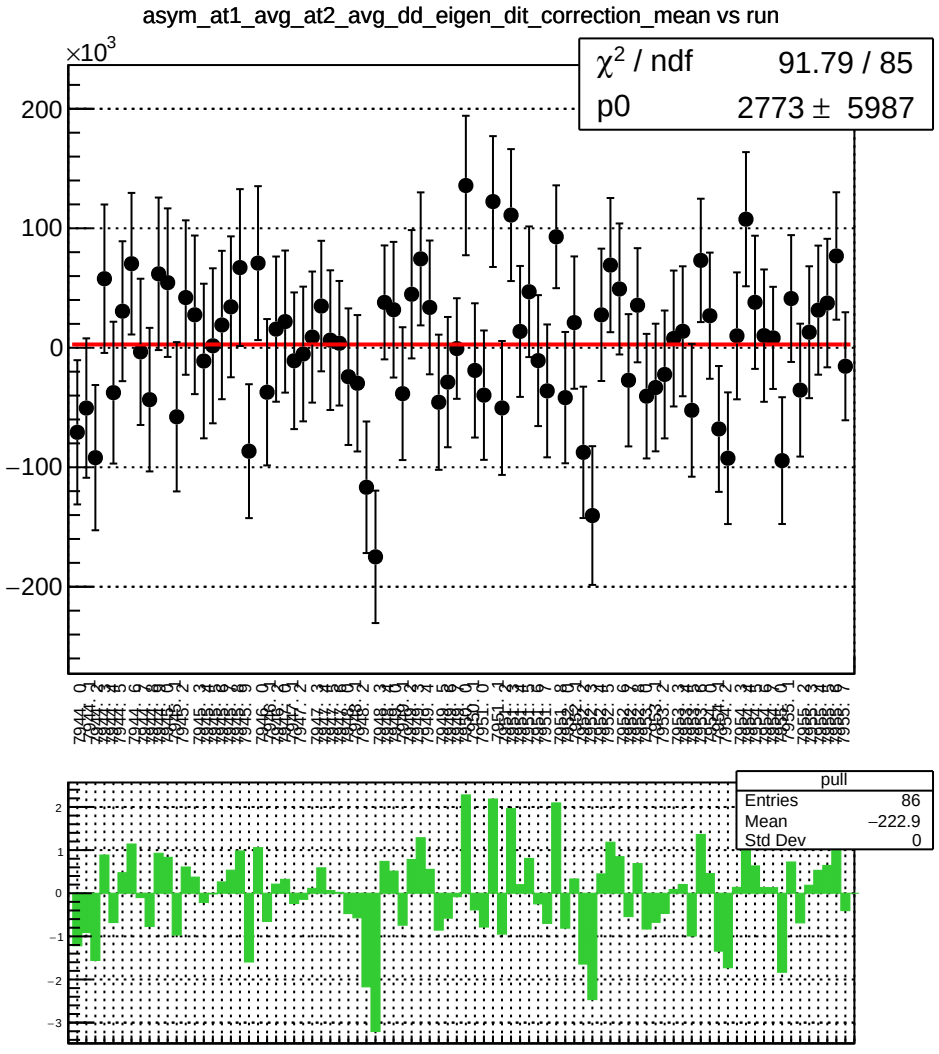

pull1D
Entries 86
Mean −0.005226
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

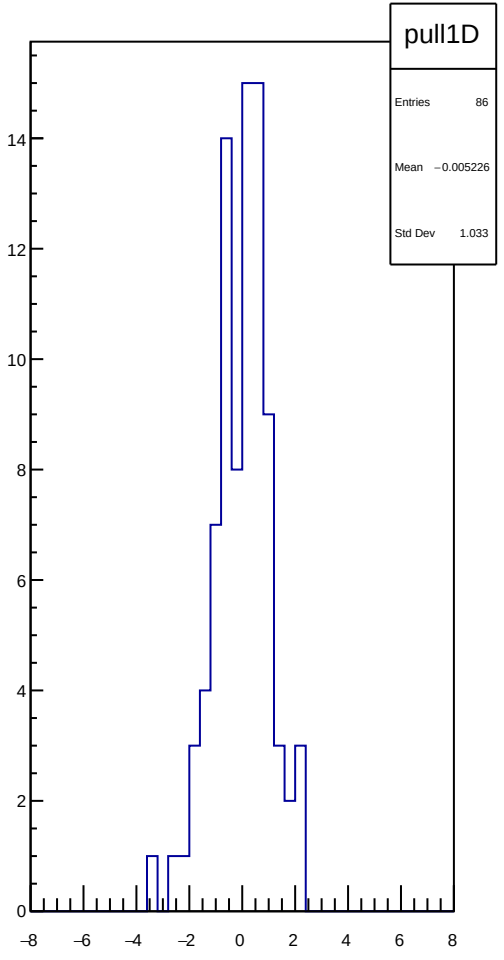

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 5601 / 85
p0 5377 ± 4.233
6400
6200
6000
5800
5600
5400
5200
5000
4800

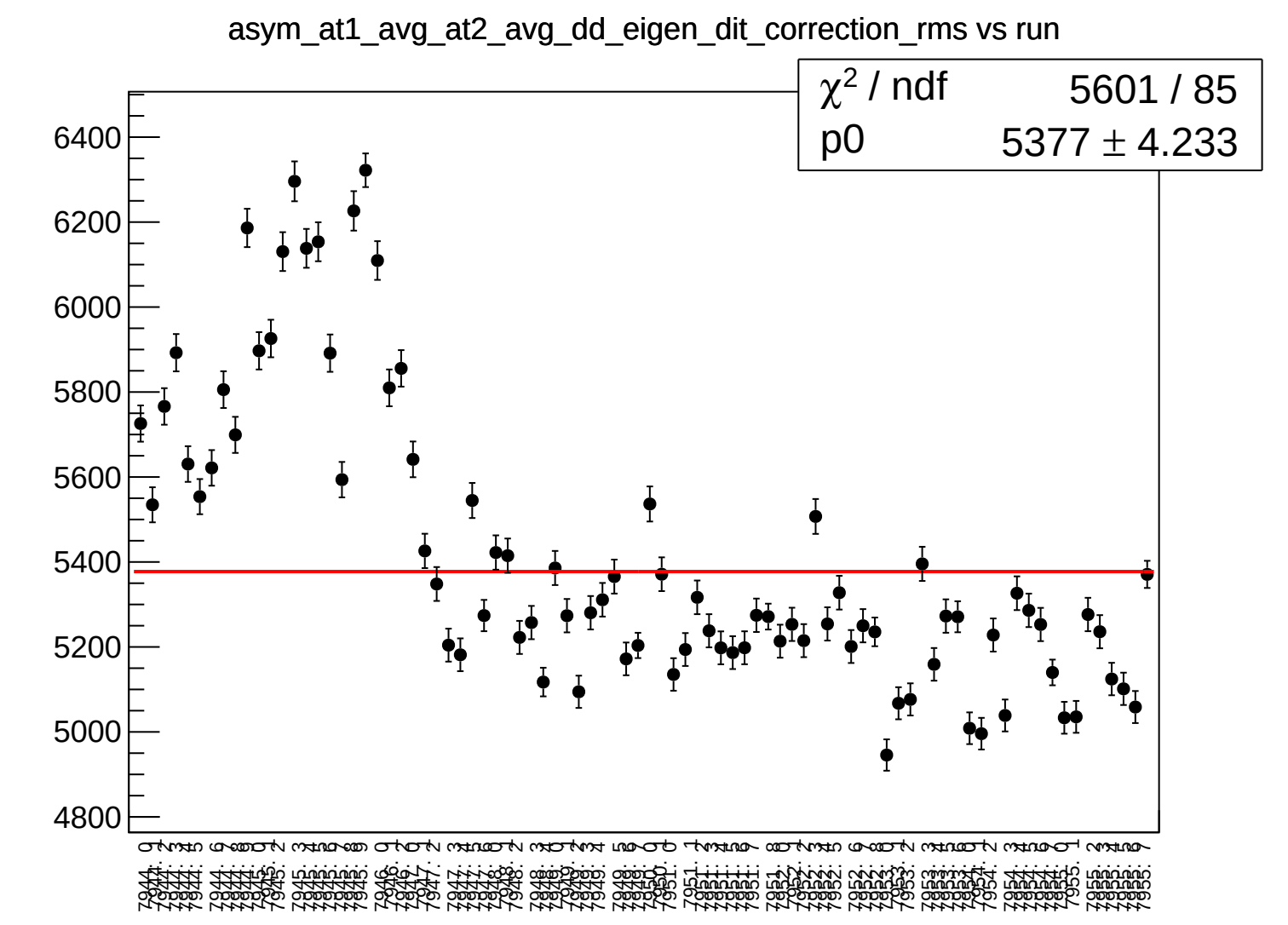

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 75.21 / 85
p0 868 ± 1448
pull
Entries 86
Mean 1013
Std Dev 0

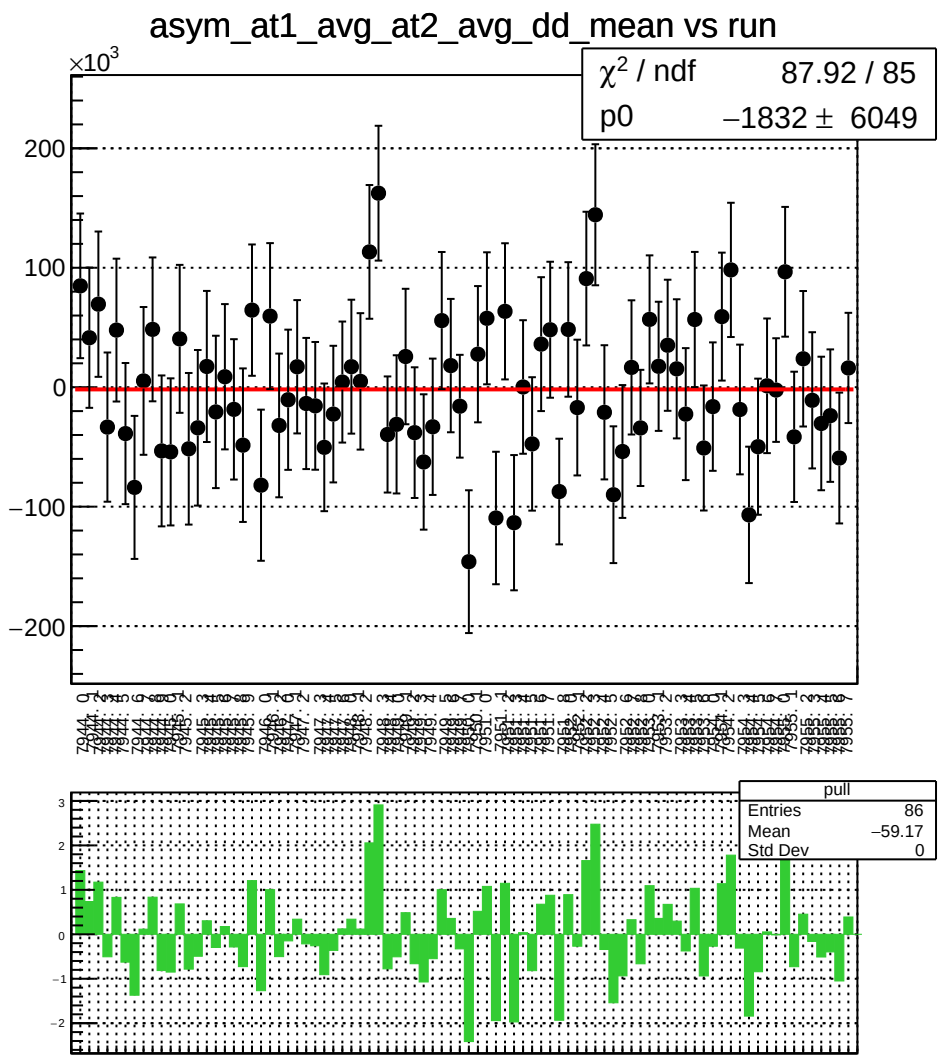

pull1D
Entries 86
Mean 0.003555
Std Dev 0.9352

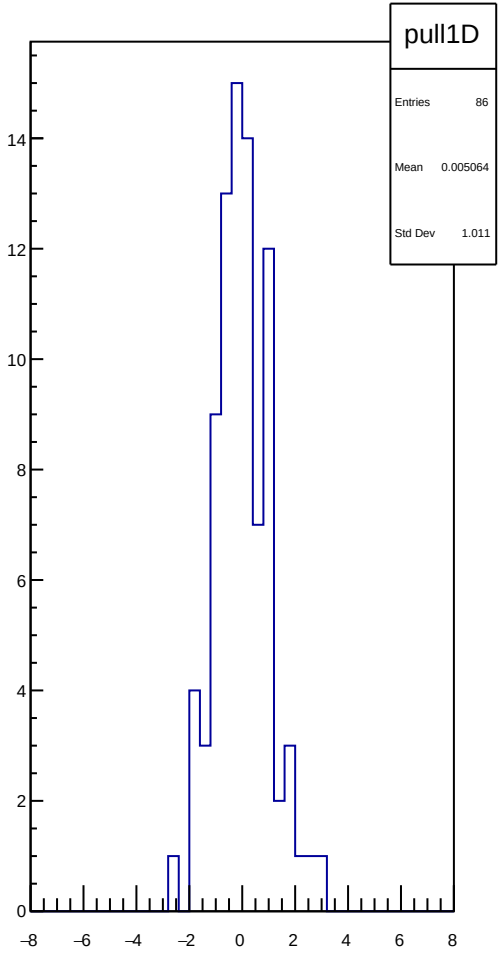

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 542.3 / 85
p0 1302 ± 1.024
1380
1360
1340
1320
1300
1280
1260

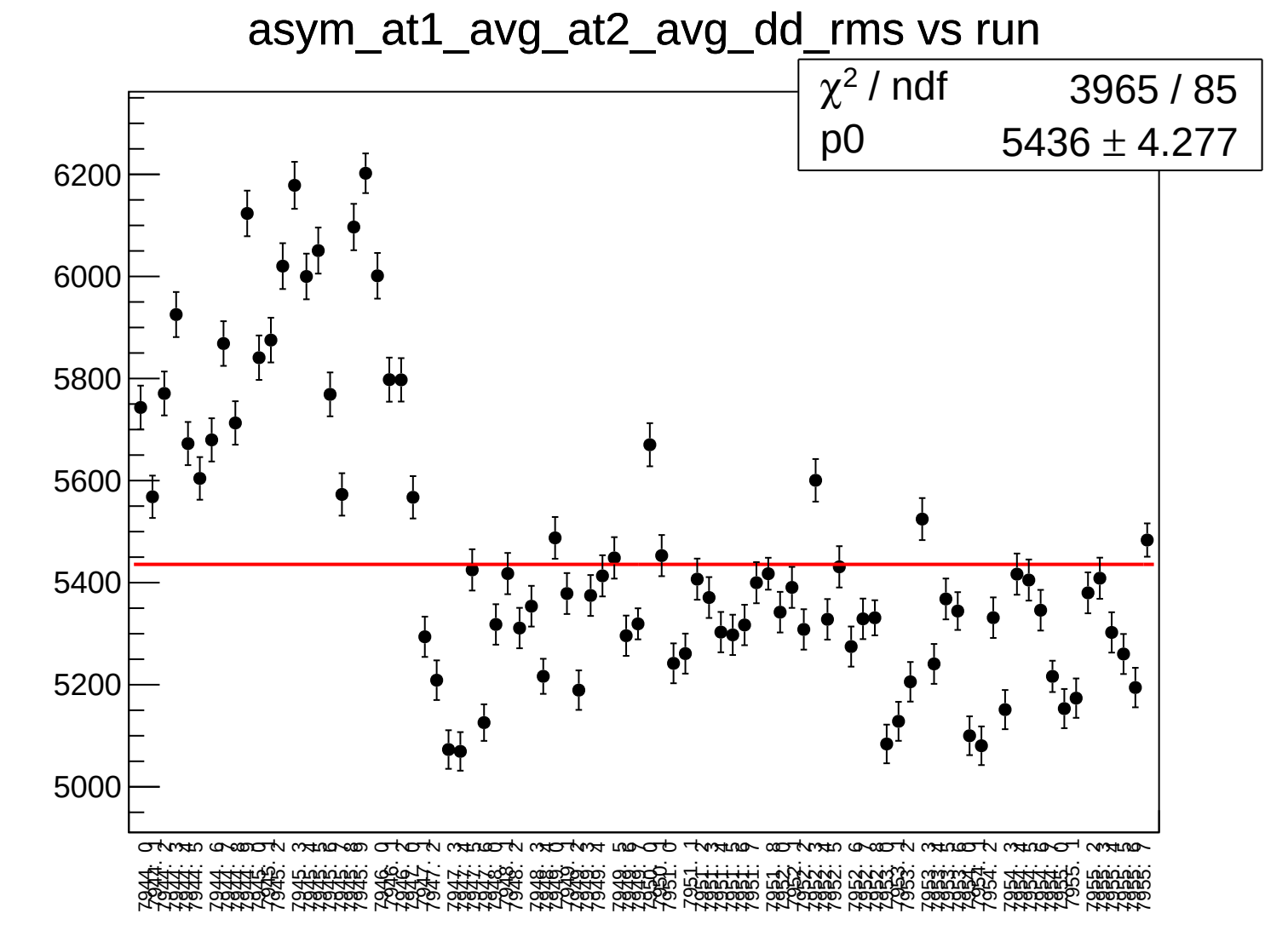

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.79 / 85
p0 2773 ± 5987
200
100
0
−100
−200
pull
Entries 86
Mean −222.9
Std Dev 0
2
1
0
−1
−2
−3

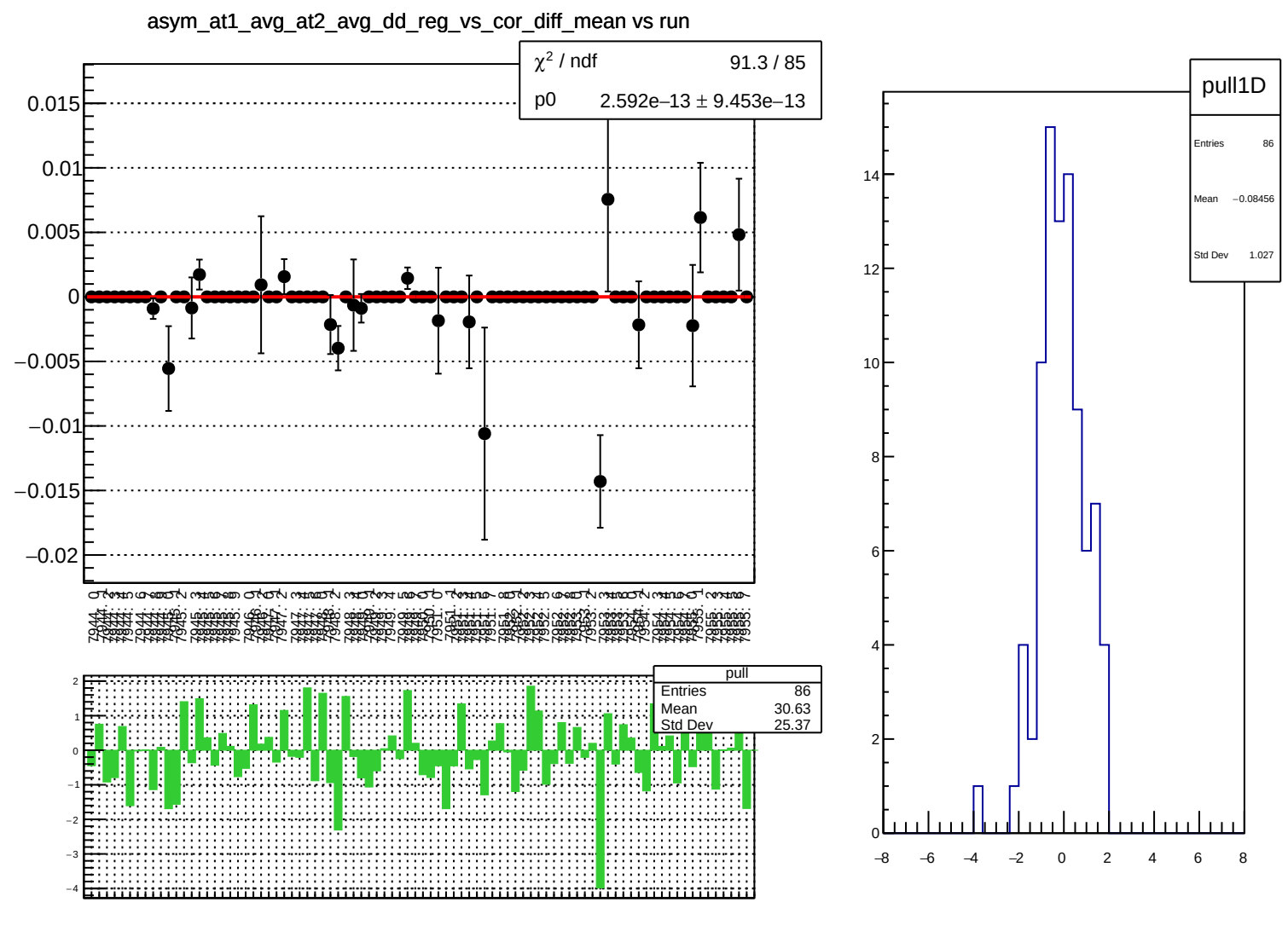

pull1D
Entries 86
Mean −0.005226
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

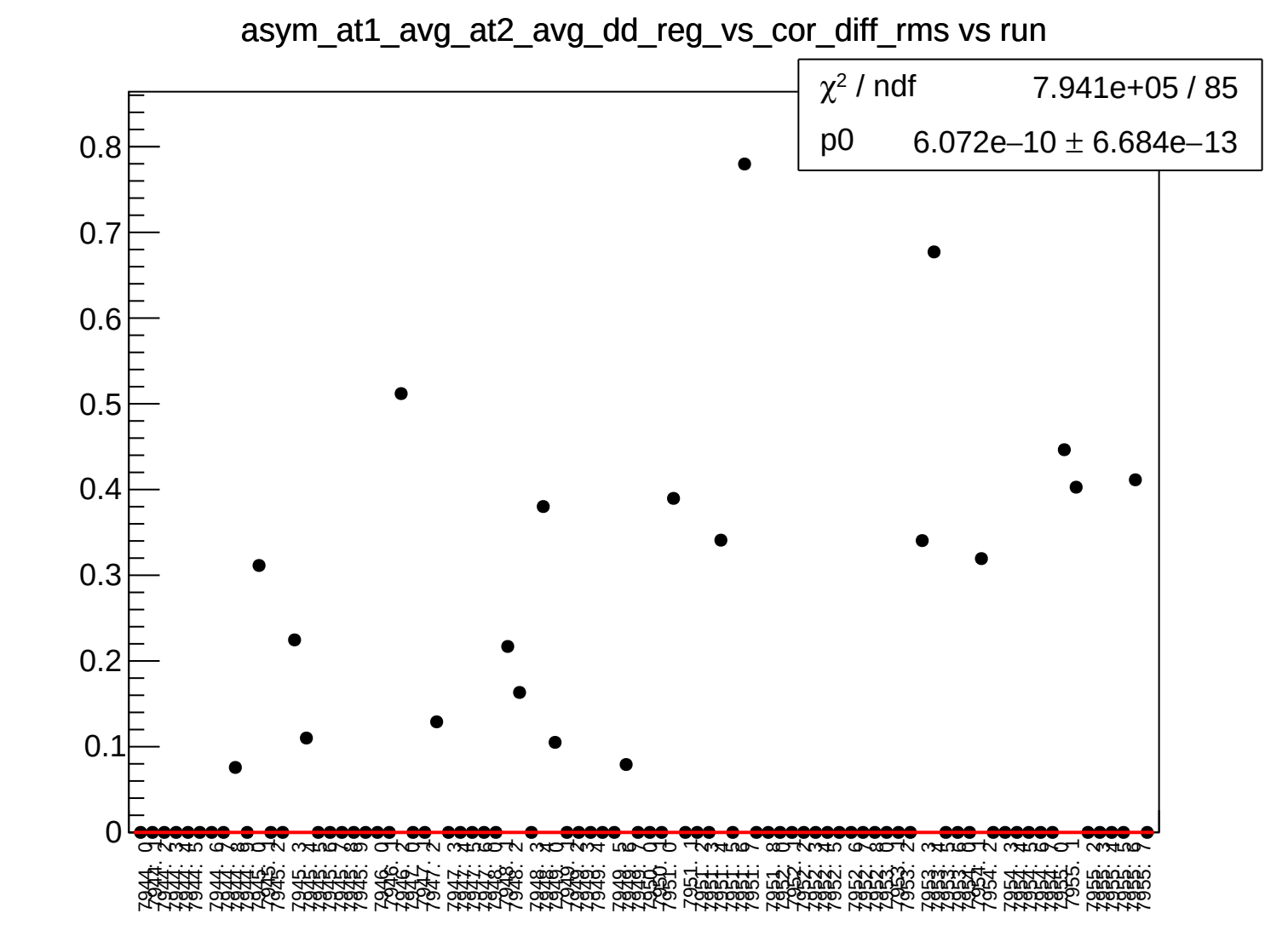

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5601 / 85
p0 5377 ± 4.233
6400
6200
6000
5800
5600
5400
5200
5000
4800

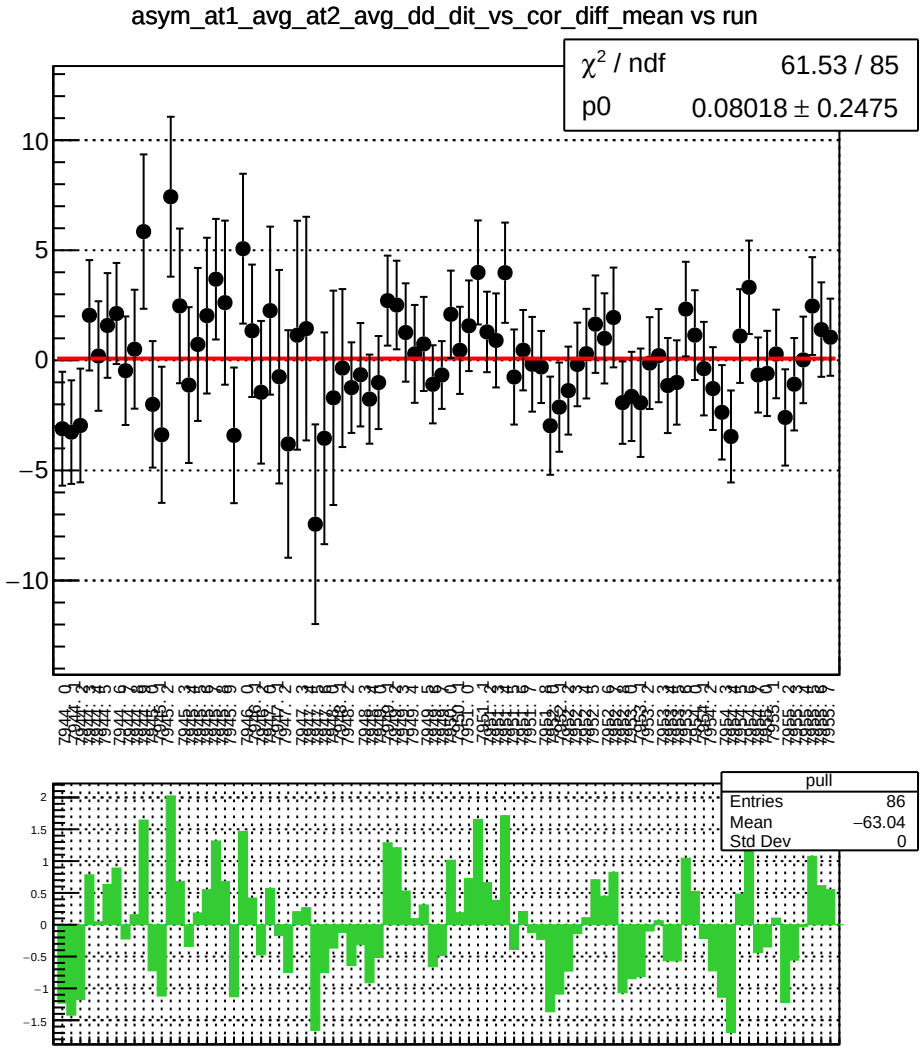

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 87.92 / 85
p0 −1832 ± 6049
200
100
0
−100
−200
pull
Entries 86
Mean −59.17
Std Dev 0
3
2
1
0
−1
−2

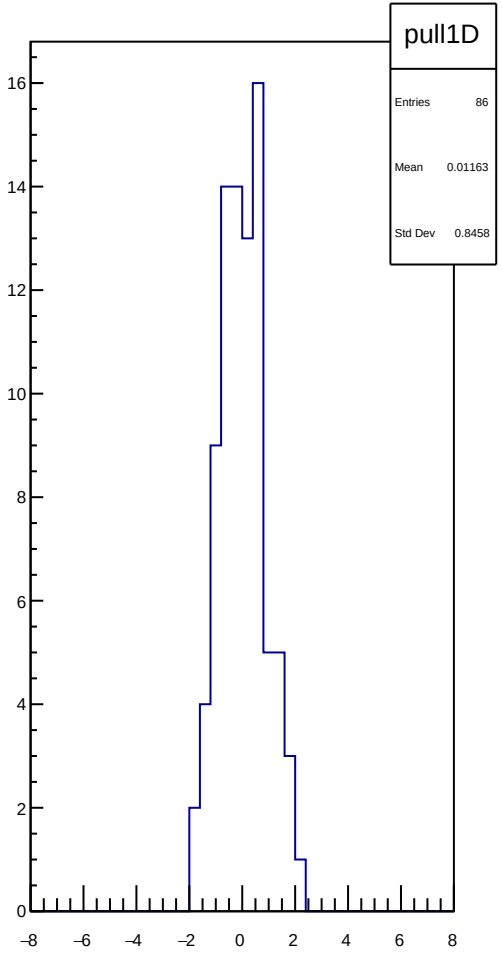

pull1D
Entries 86
Mean 0.005064
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

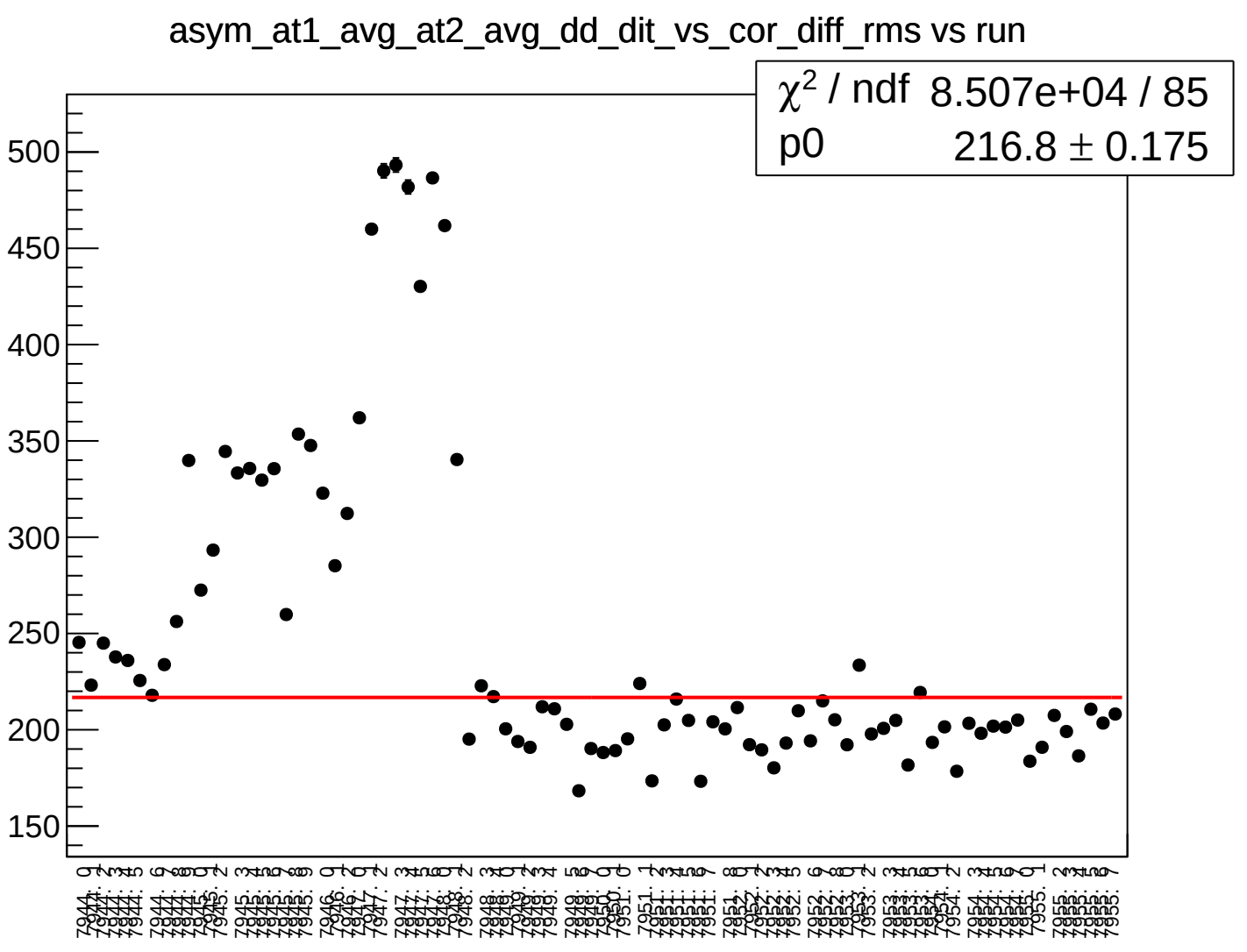

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3965 / 85
p0 5436 ± 4.277
6200
6000
5800
5600
5400
5200
5000

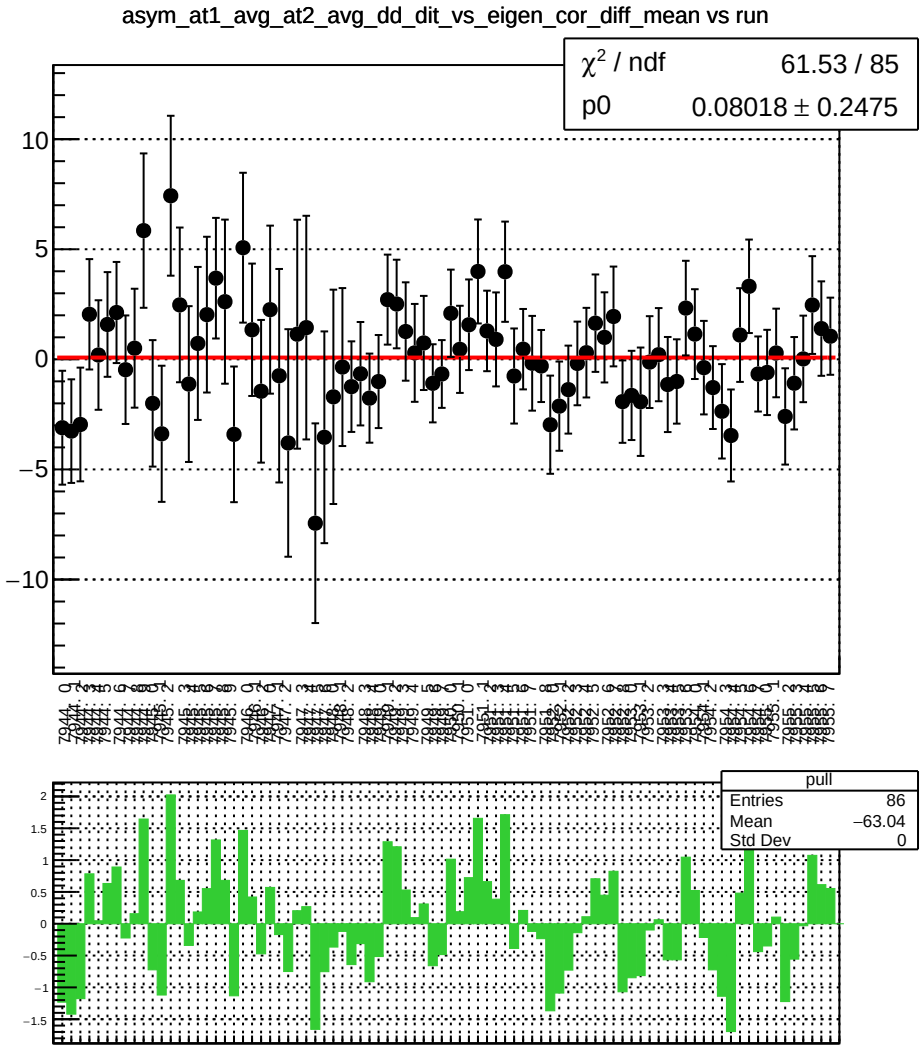

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.3 / 85
p0 2.592e−13 ± 9.453e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 86
Mean 30.63
Std Dev 25.37
2
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean −0.08456
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

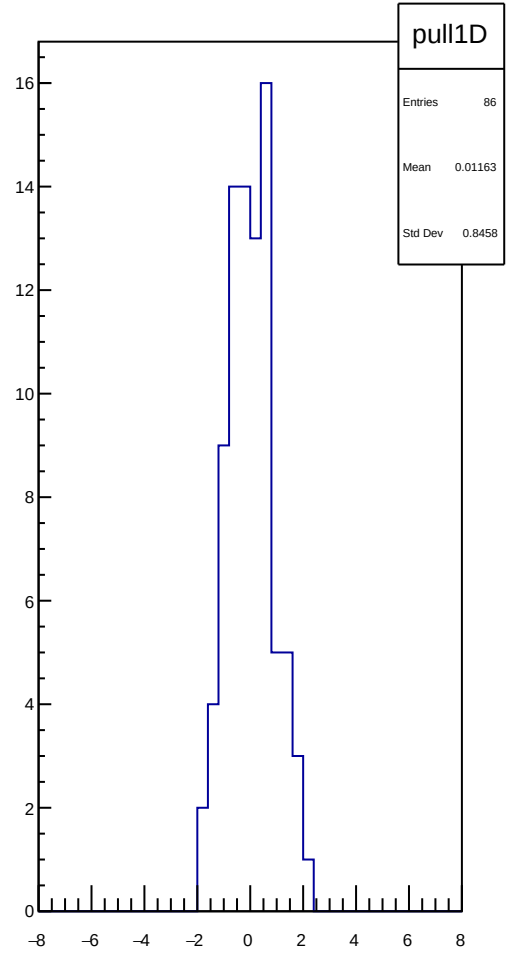

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.941e+05 / 85
p0 6.072e−10 ± 6.684e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

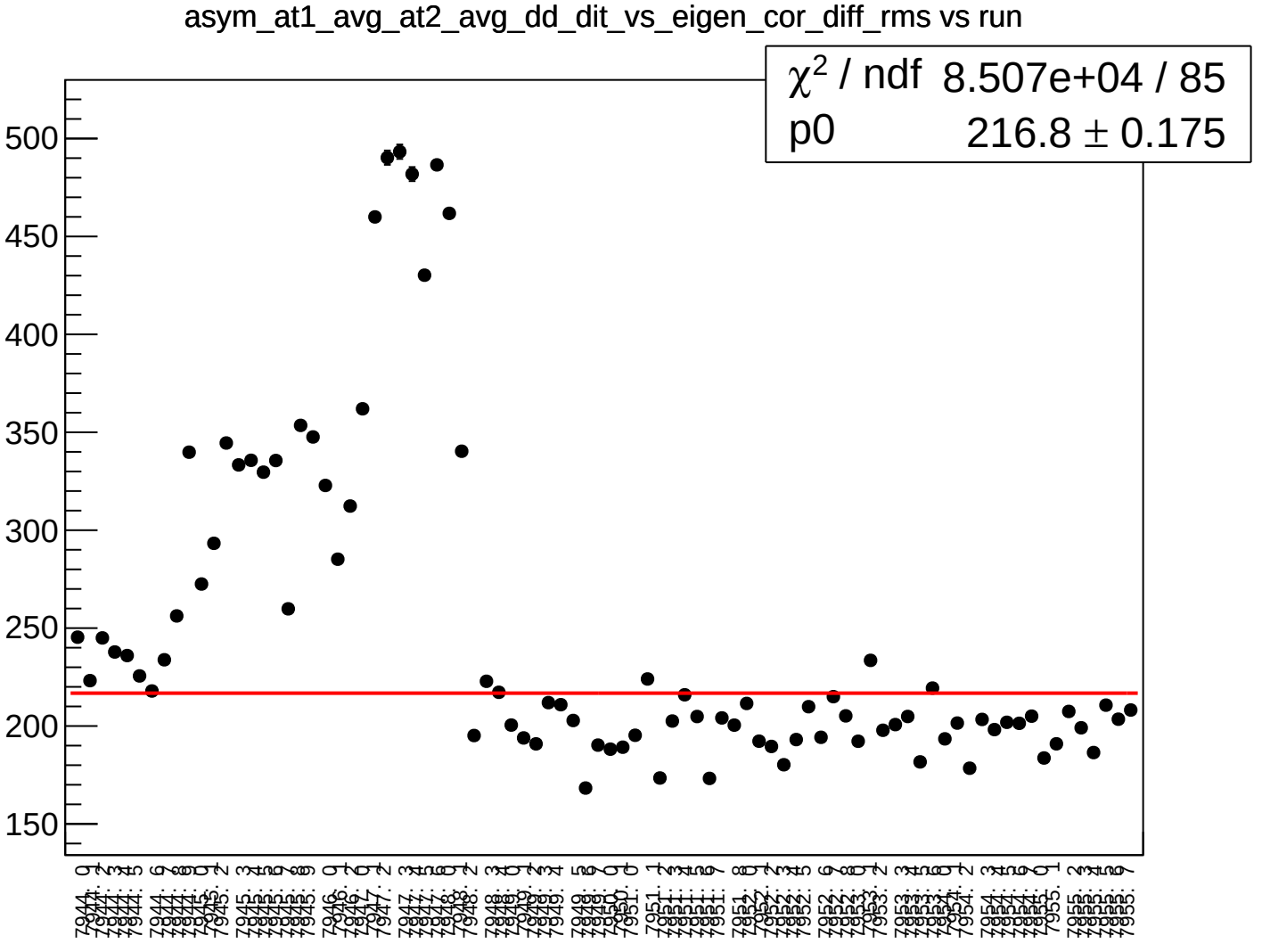

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08018 ± 0.2475
pull
Entries 86
Mean −63.04
Std Dev 0

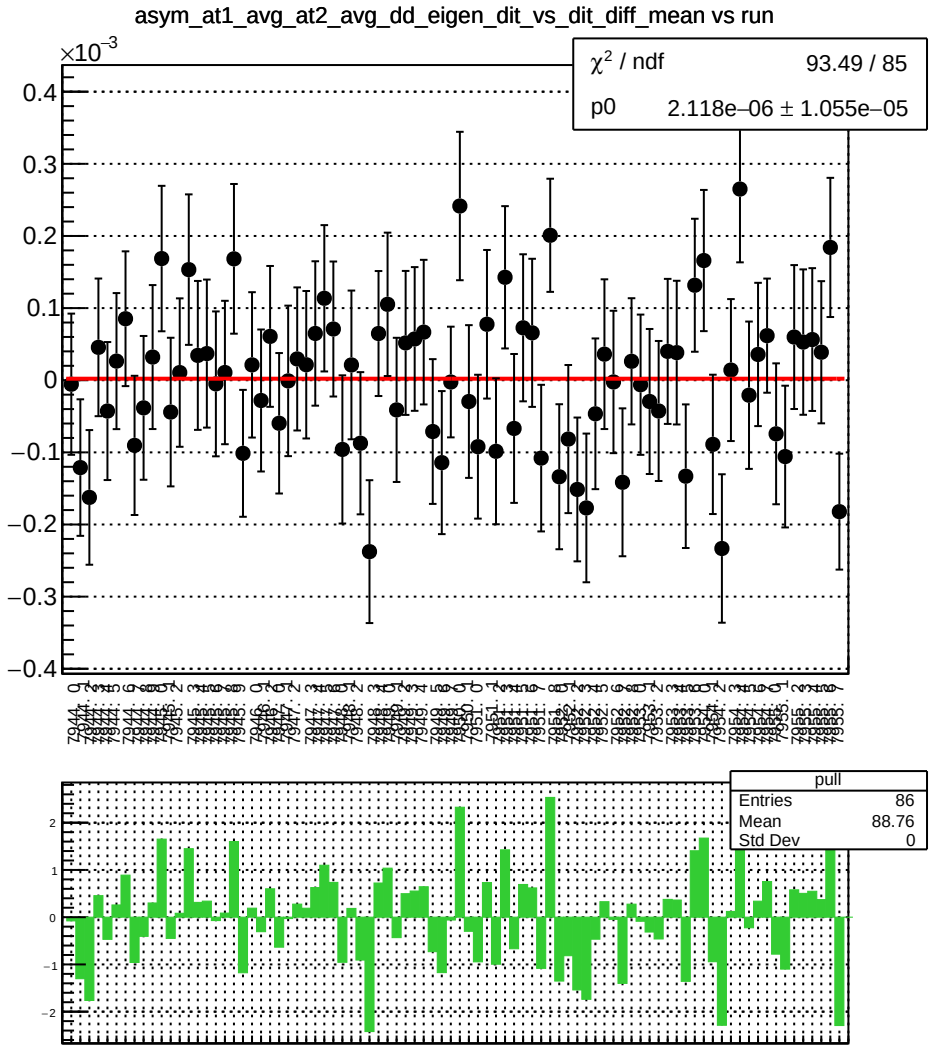

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

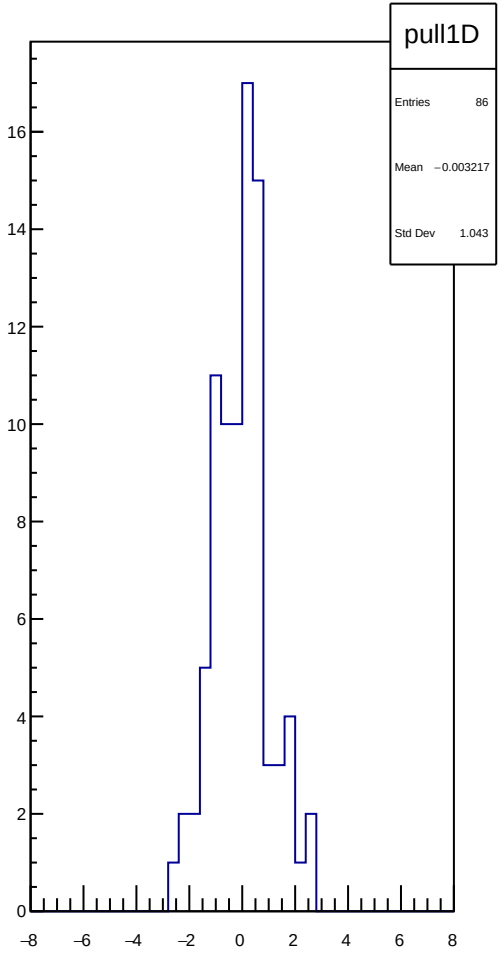

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

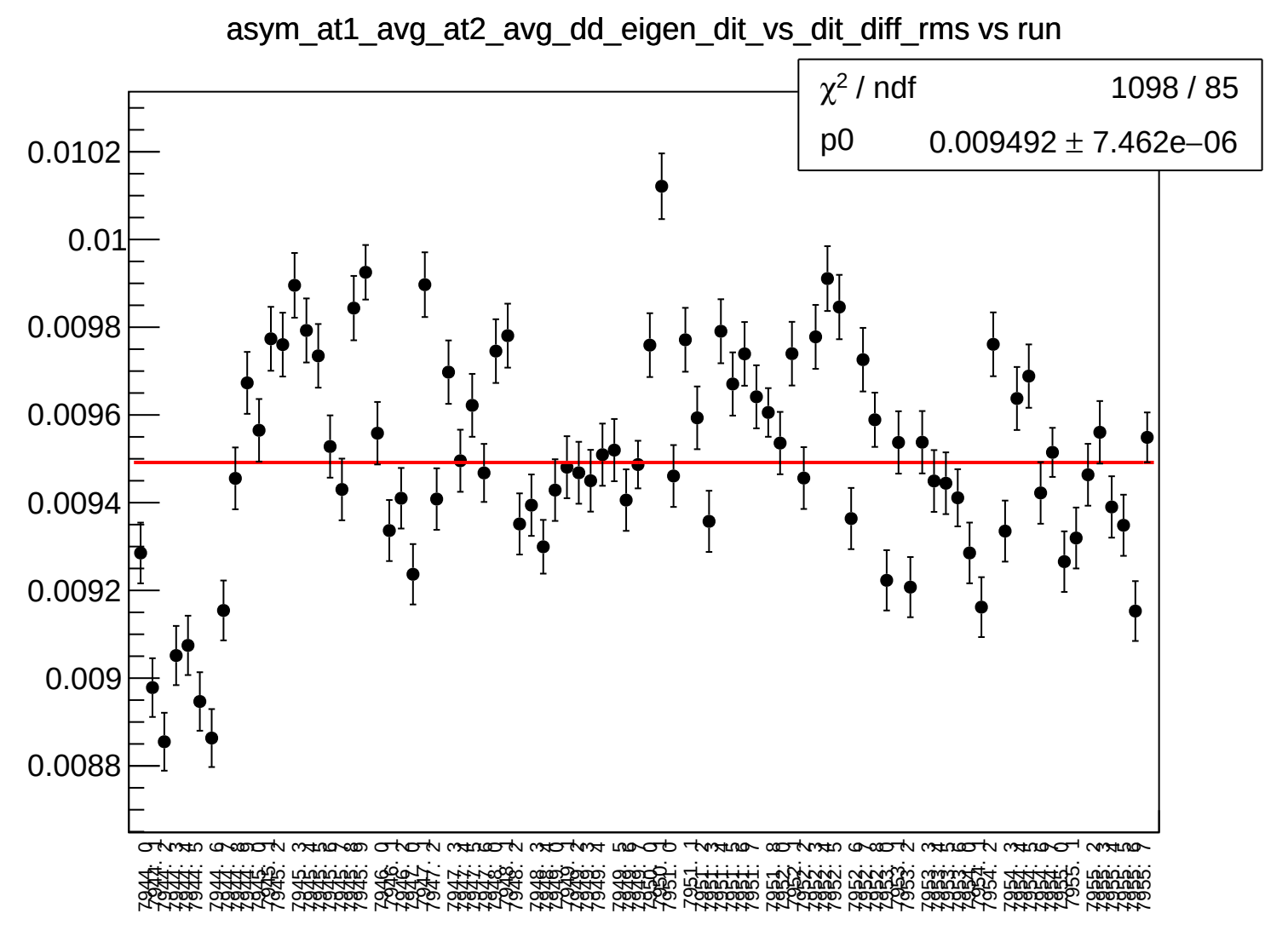

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08018 ± 0.2475
pull
Entries 86
Mean −63.04
Std Dev 0

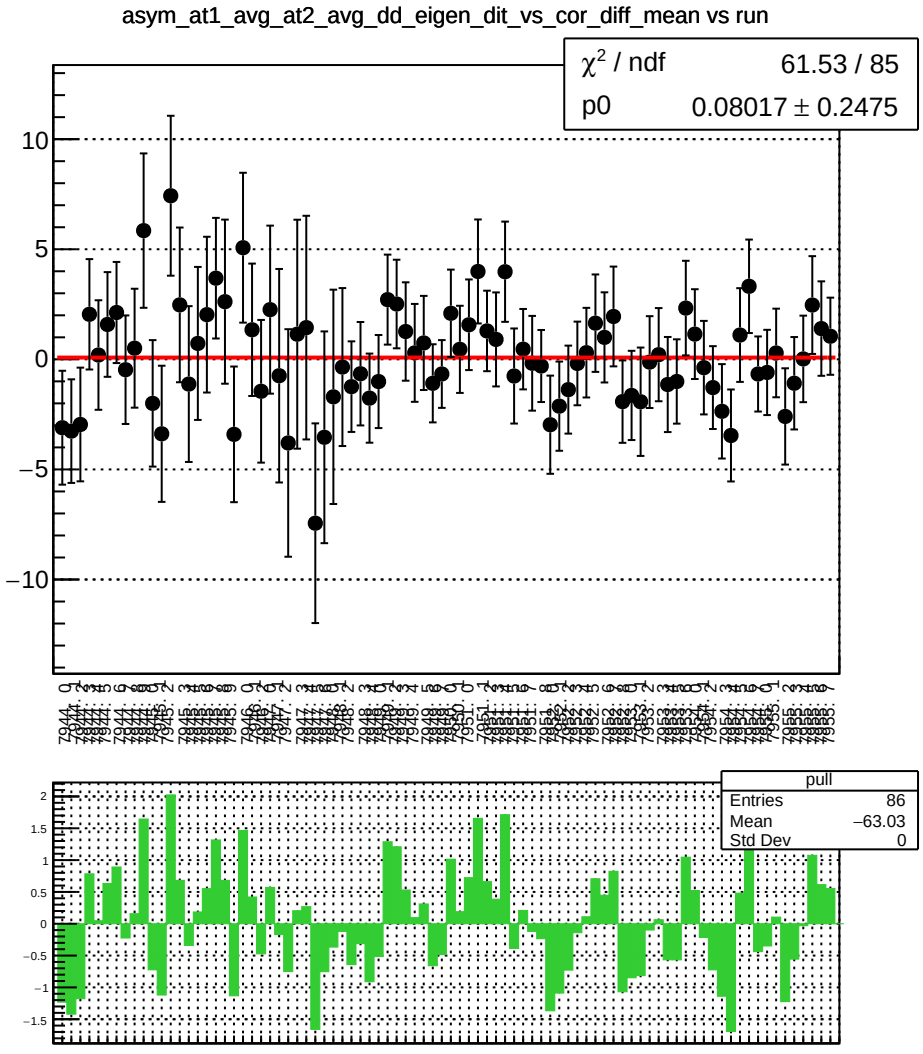

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

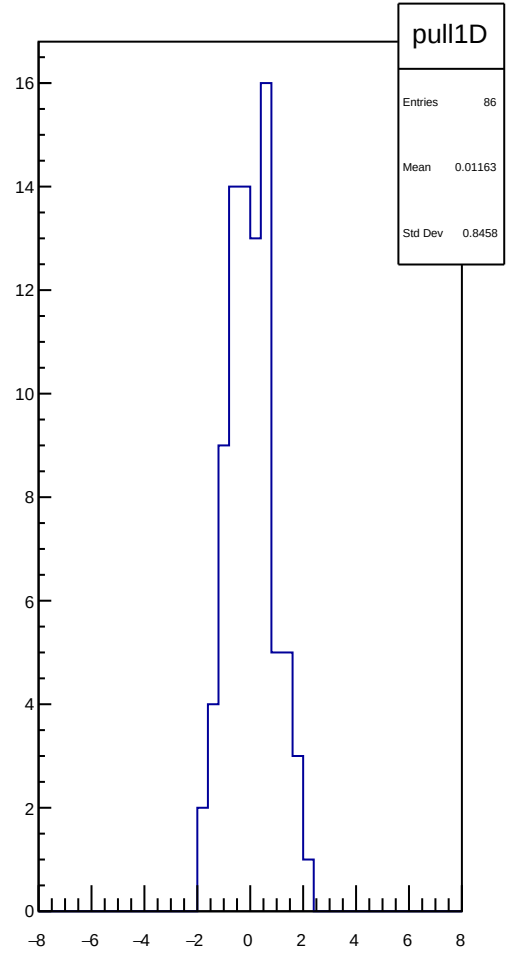

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

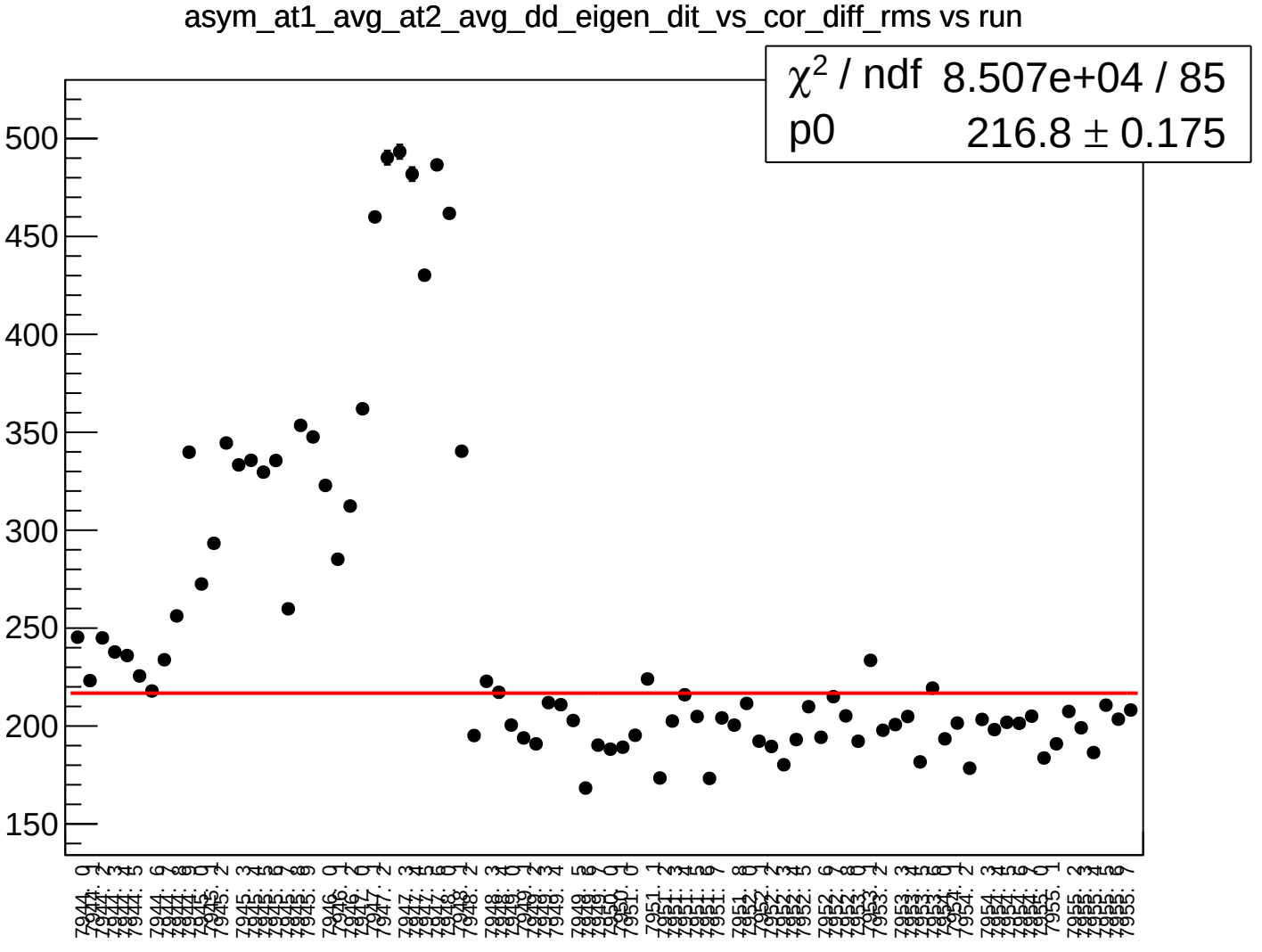

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.49 / 85
p0 2.118e−06 ± 1.055e−05
pull
Entries 86
Mean 88.76
Std Dev 0

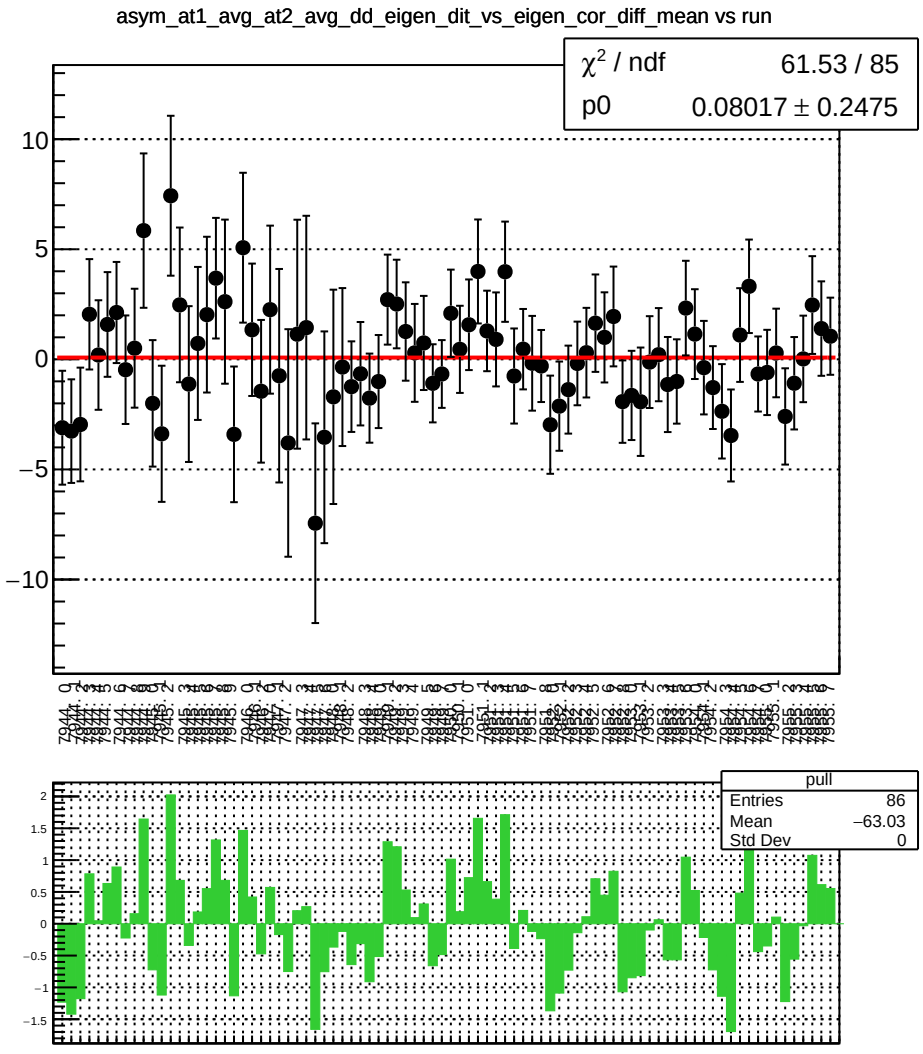

pull1D
Entries 86
Mean −0.003217
Std Dev 1.043

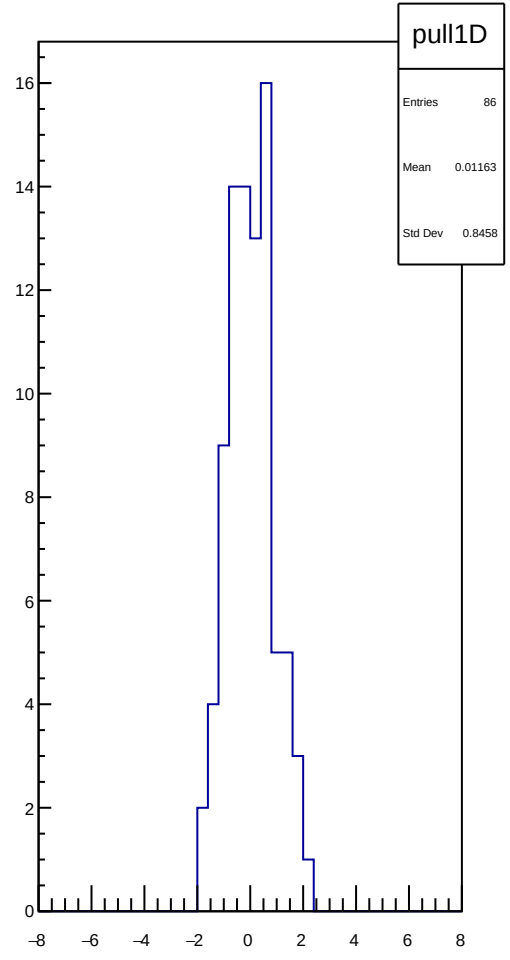

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1098 / 85
p0 0.009492 ± 7.462e−06
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088

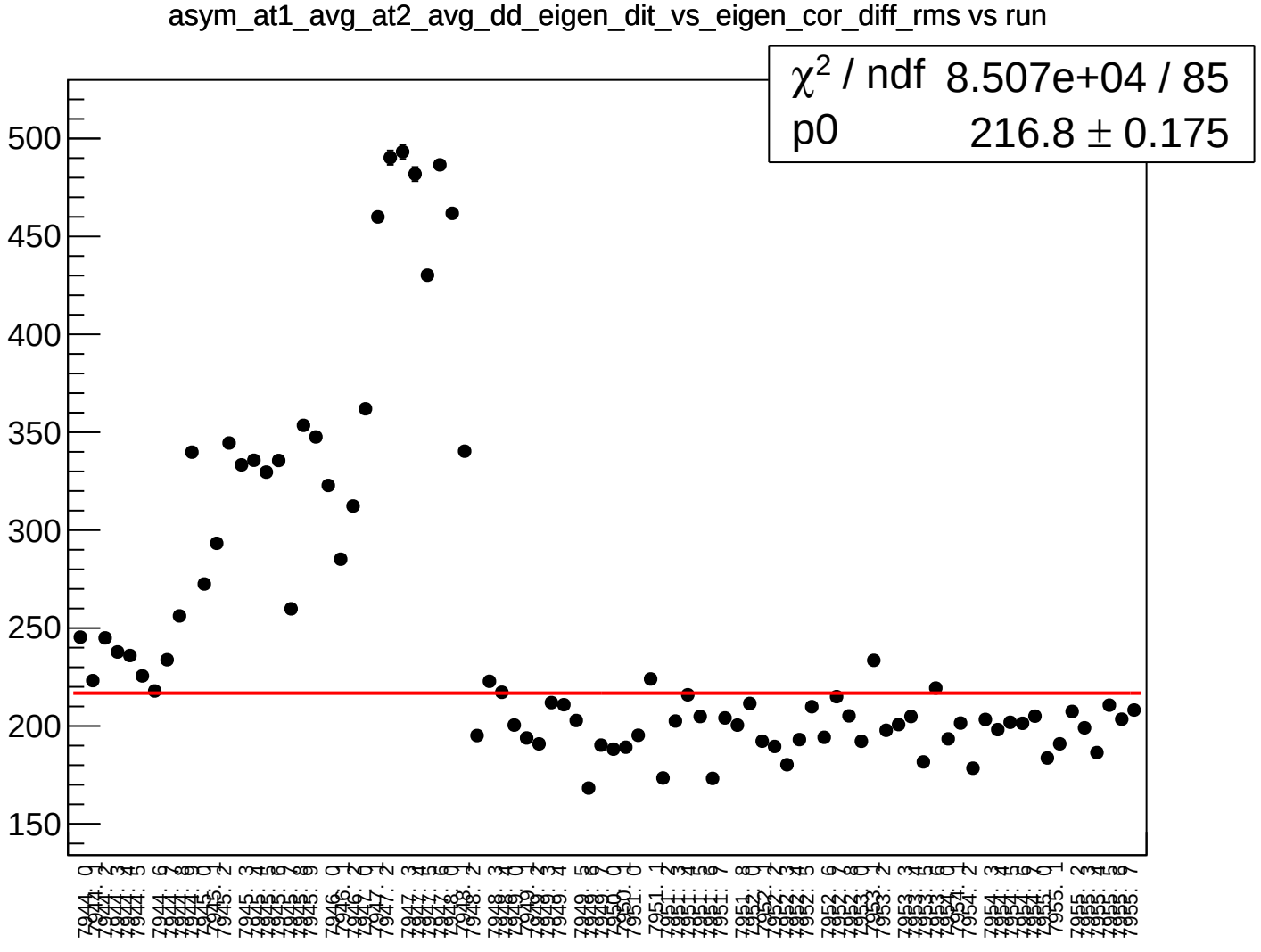

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08017 ± 0.2475
pull
Entries 86
Mean −63.03
Std Dev 0

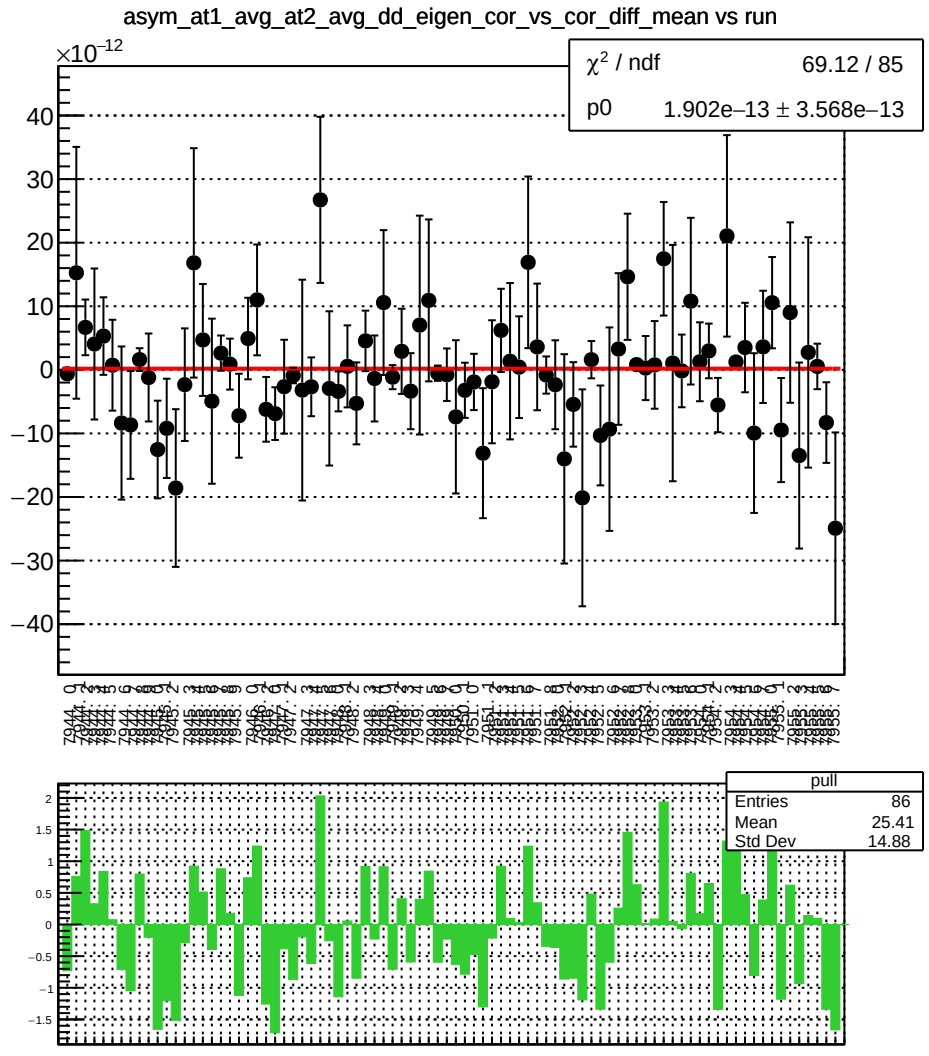

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

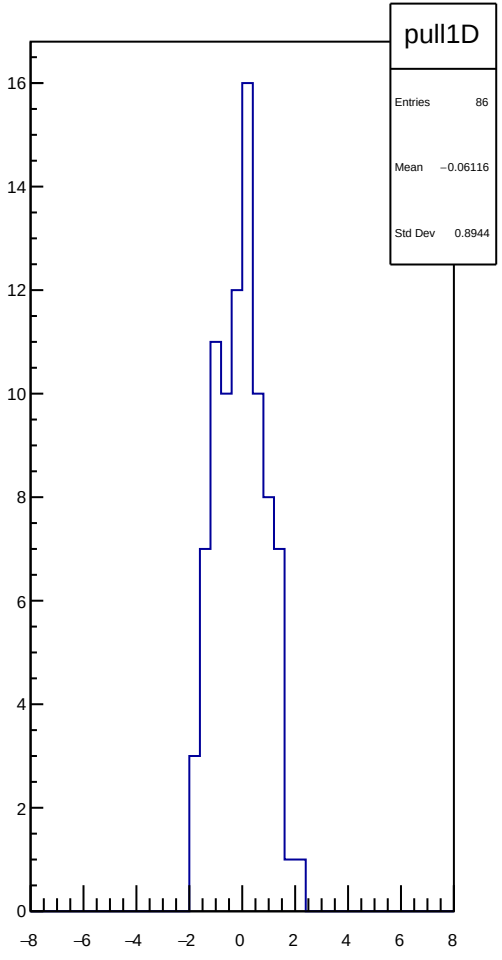

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

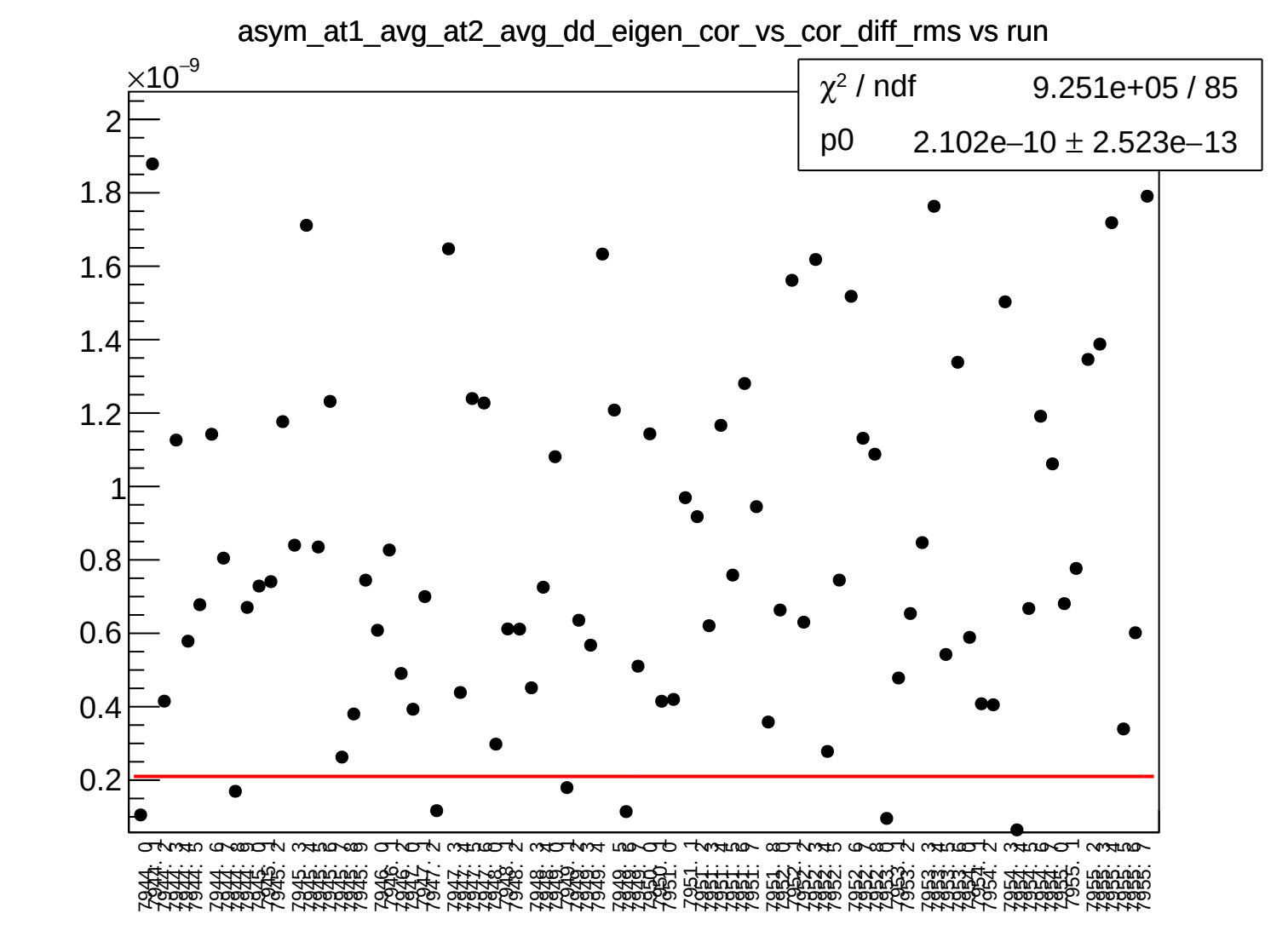

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08017 ± 0.2475
pull
Entries 86
Mean −63.03
Std Dev 0

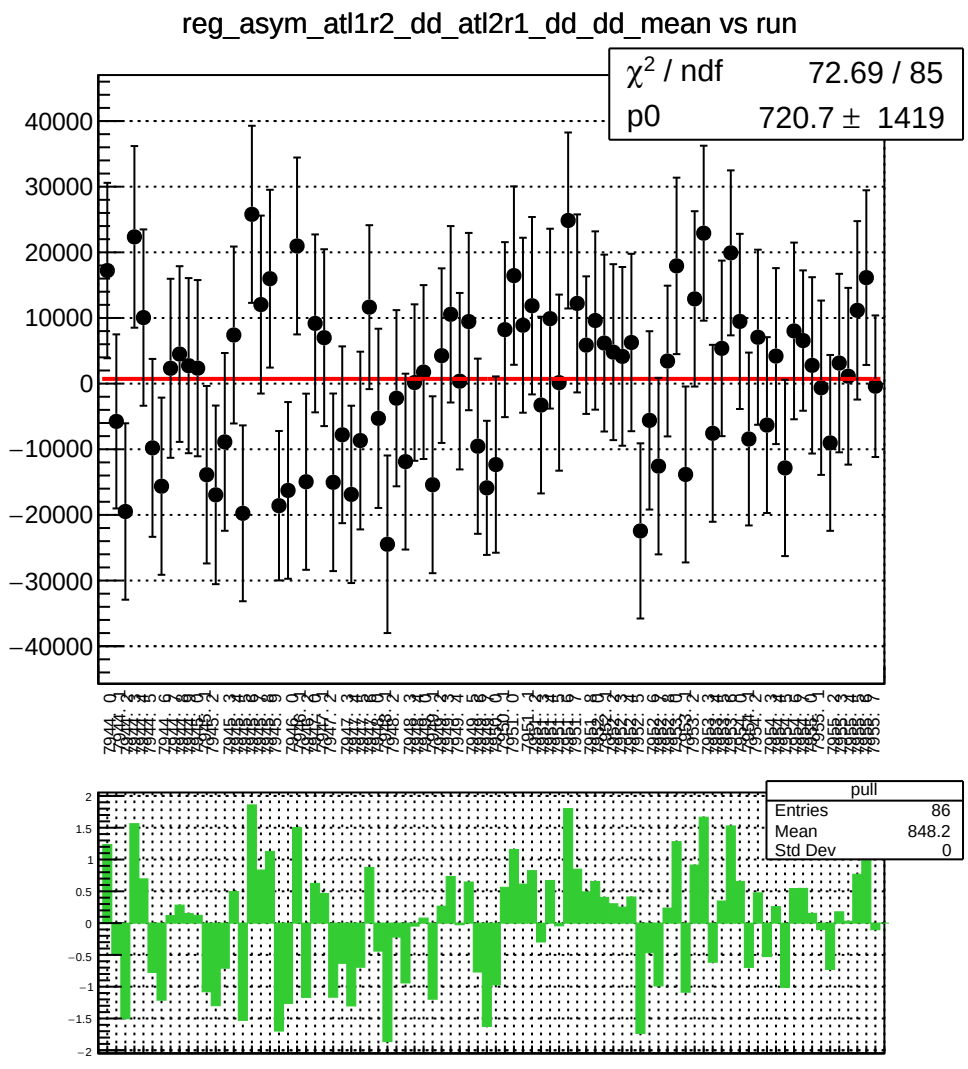

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

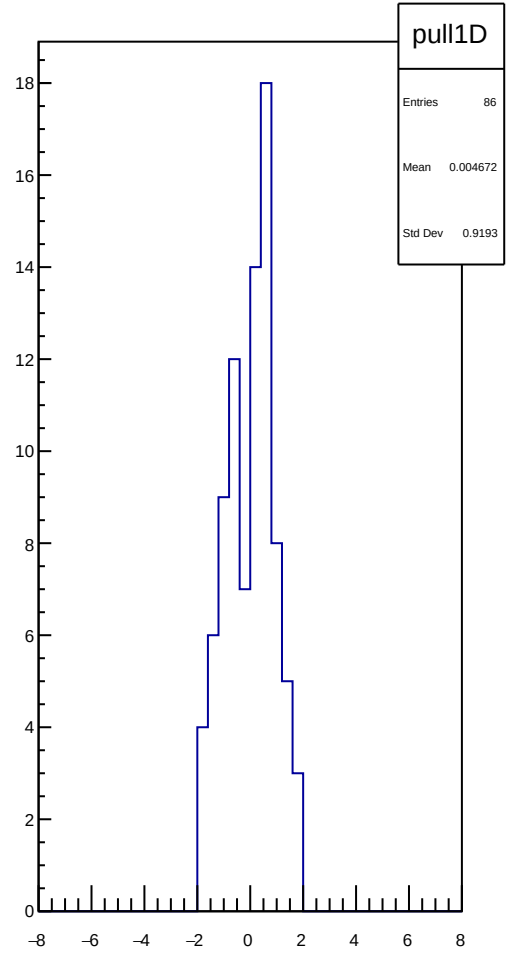

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

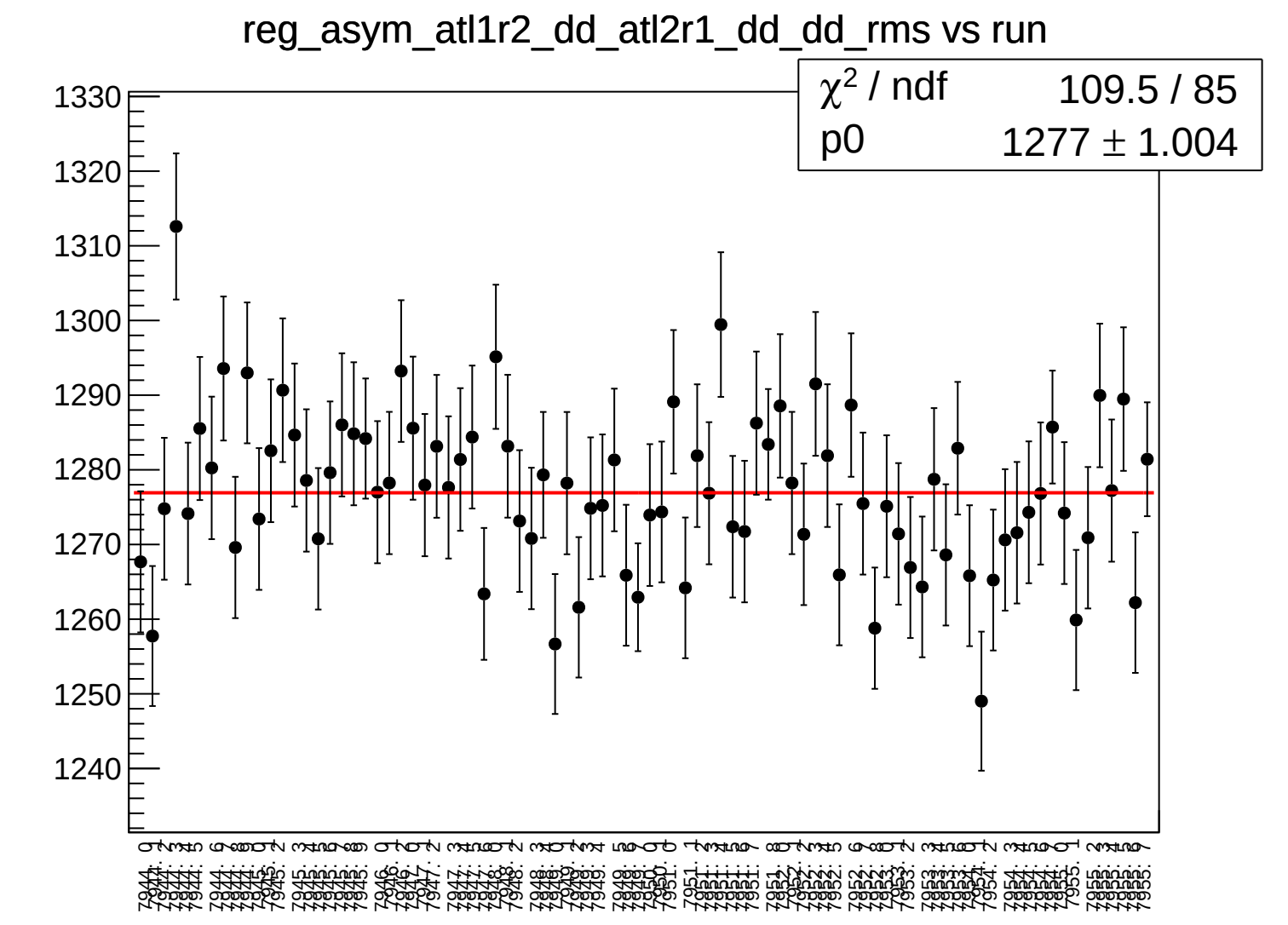

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.12 / 85
p0 1.902e−13 ± 3.568e−13
pull
Entries 86
Mean 25.41
Std Dev 14.88

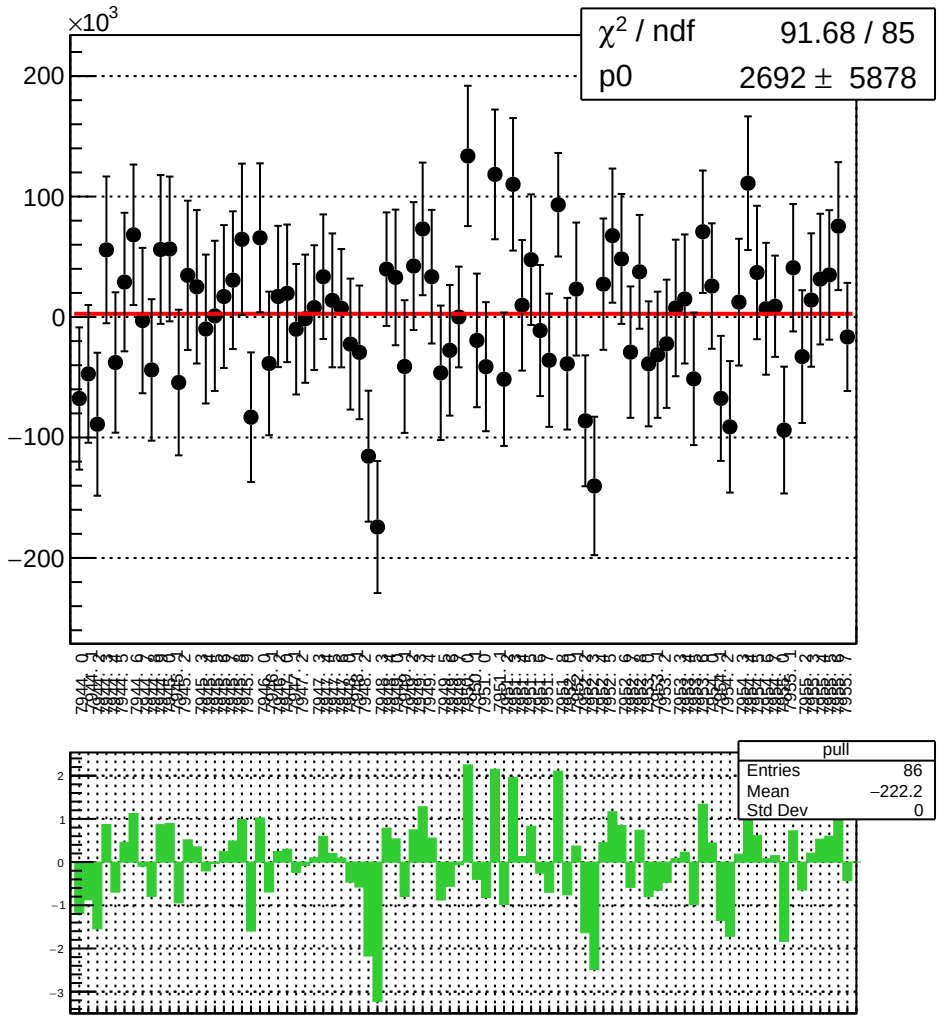

pull1D
Entries 86
Mean −0.06116
Std Dev 0.8944

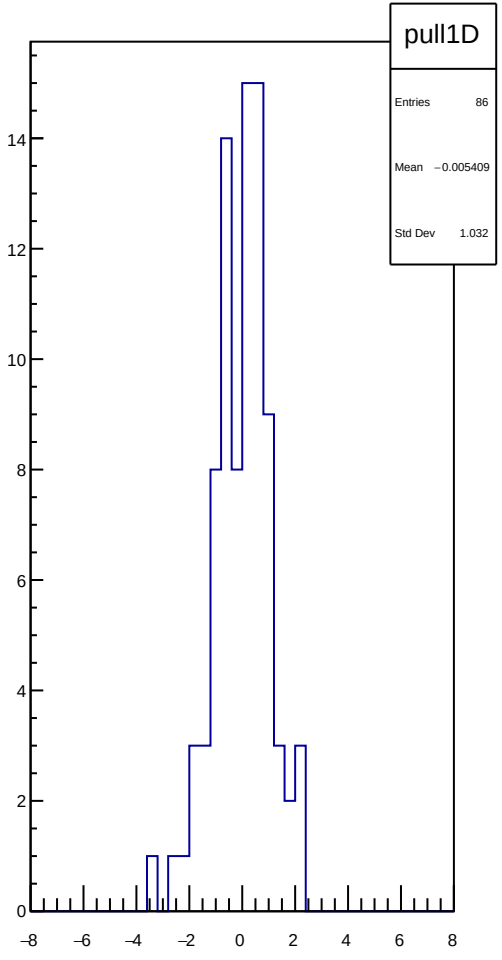

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.251e+05 / 85
p0 2.102e−10 ± 2.523e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

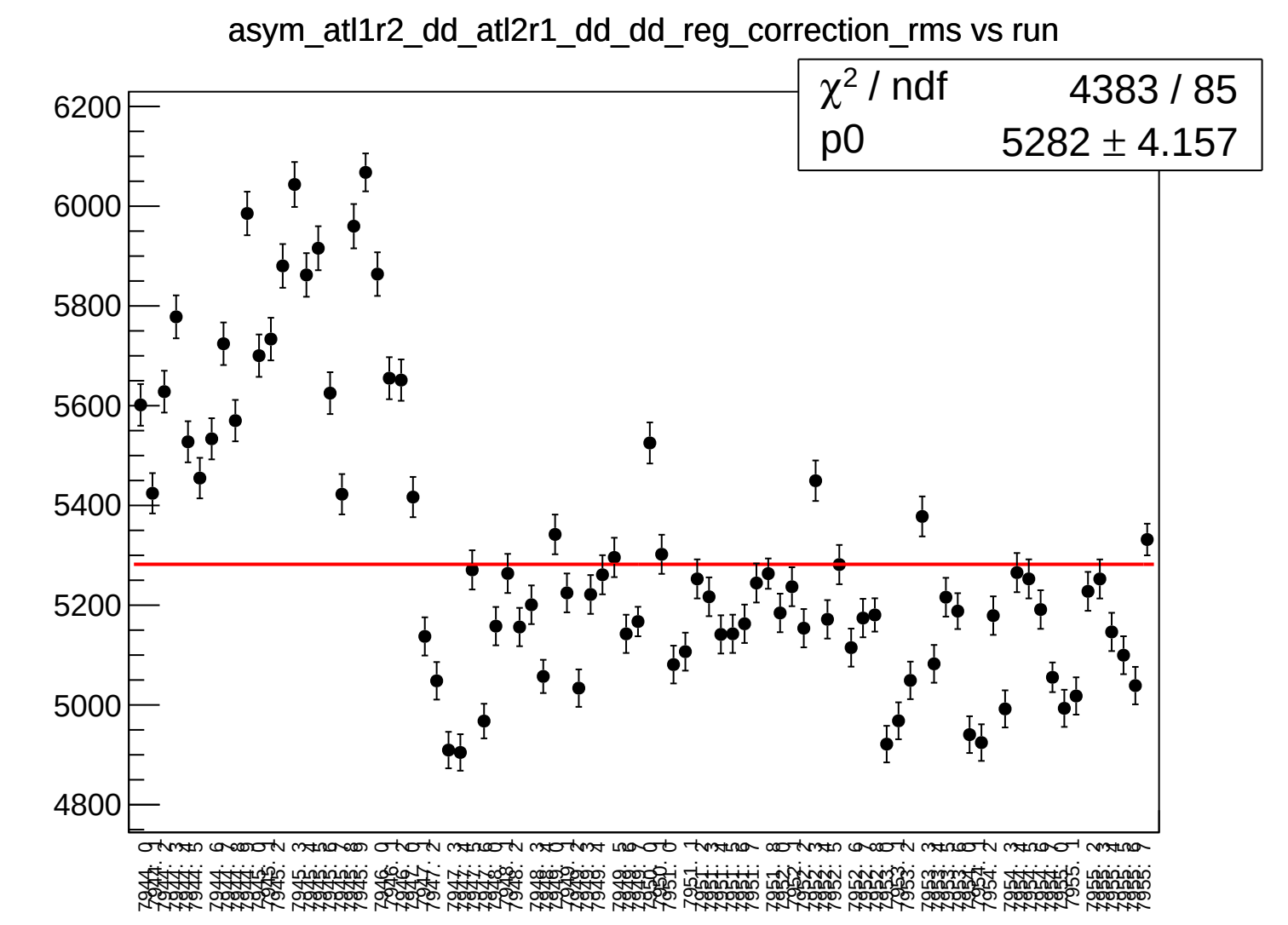

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 72.69 / 85
p0 720.7 ± 1419
pull
Entries 86
Mean 848.2
Std Dev 0

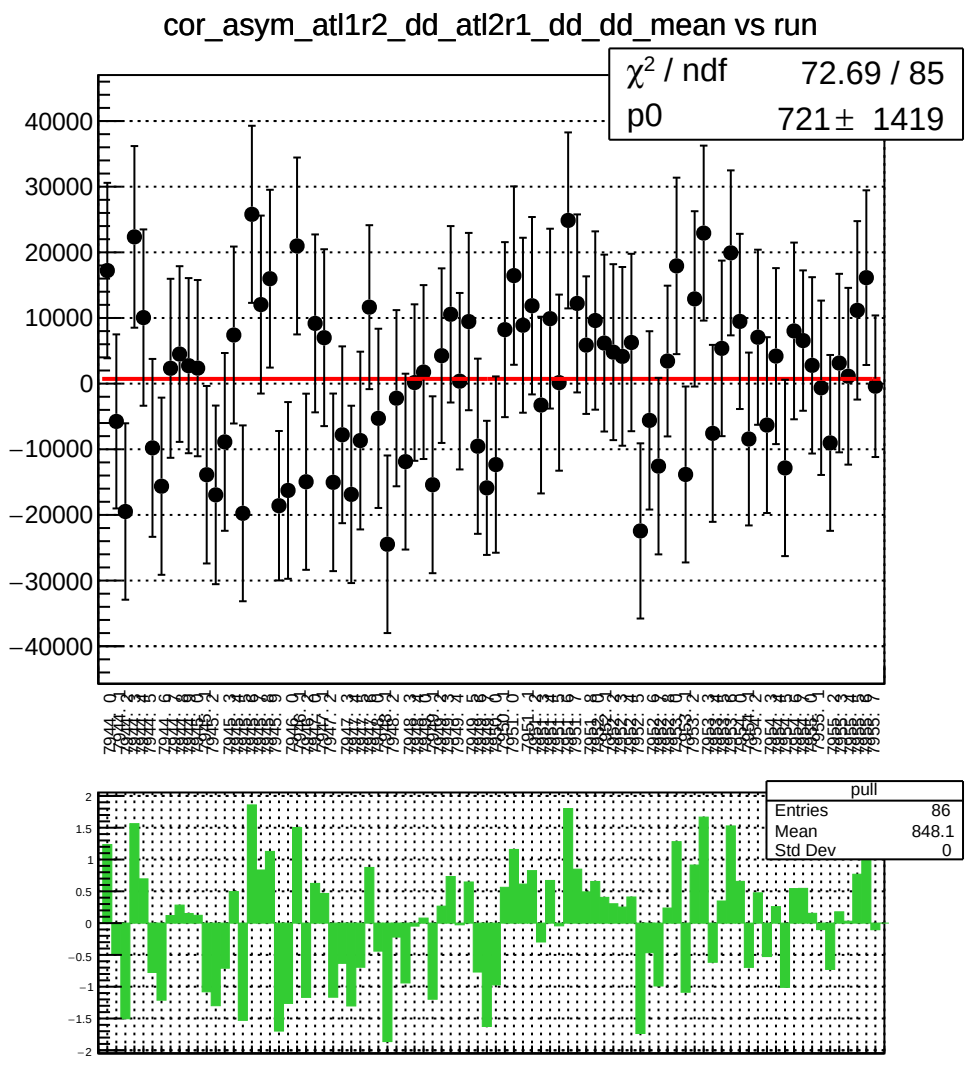

pull1D
Entries 86
Mean 0.004672
Std Dev 0.9193

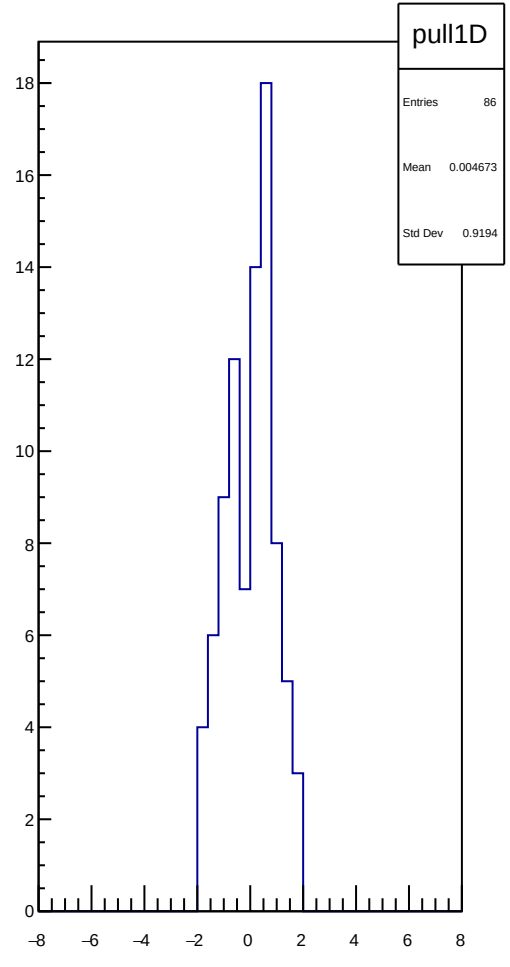

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 109.5 / 85
p0 1277 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

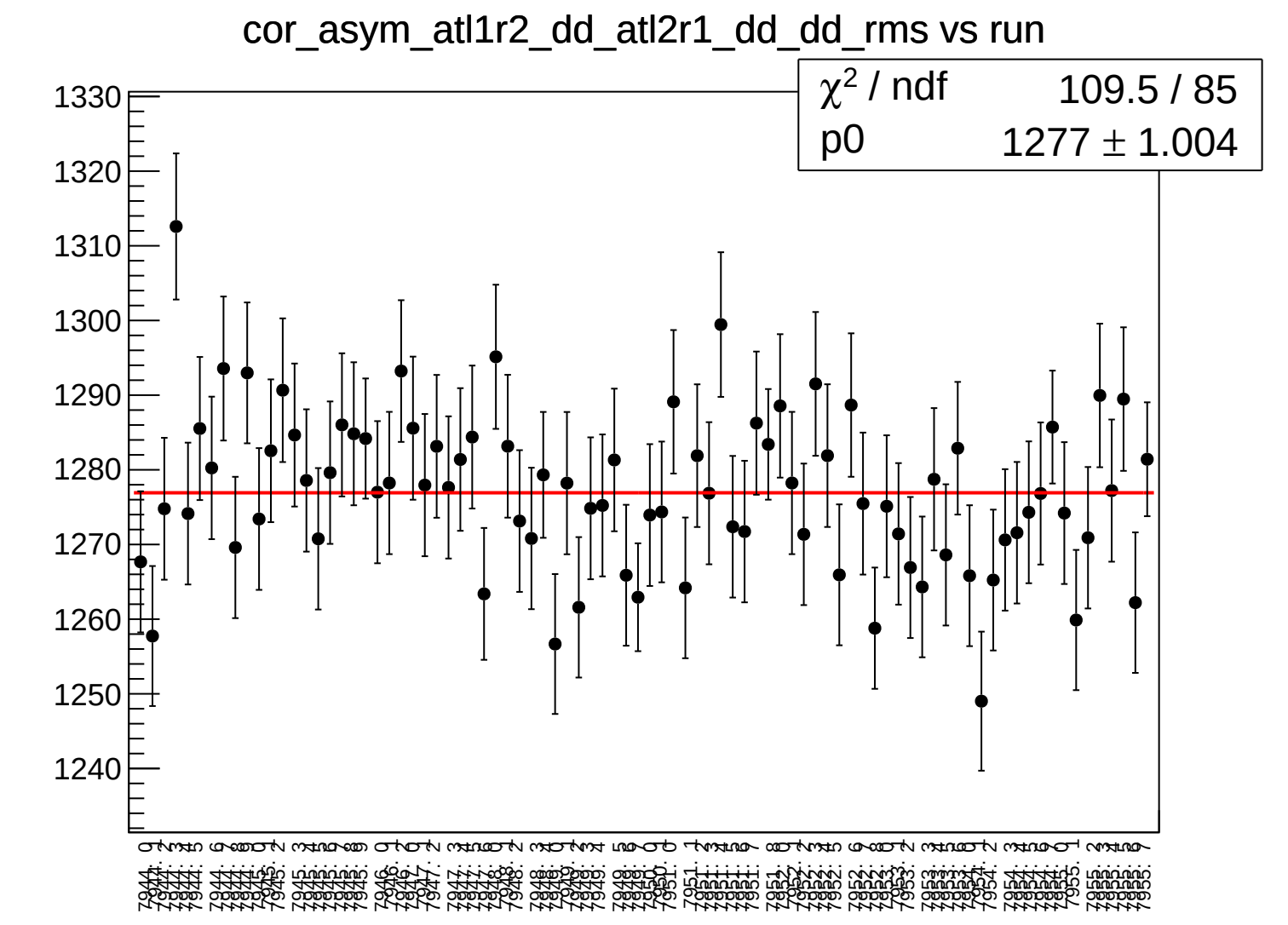

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.68 / 85
p0 2692 ± 5878
200
100
0
−100
−200
pull
Entries 86
Mean −222.2
Std Dev 0
2
1
0
−1
−2
−3

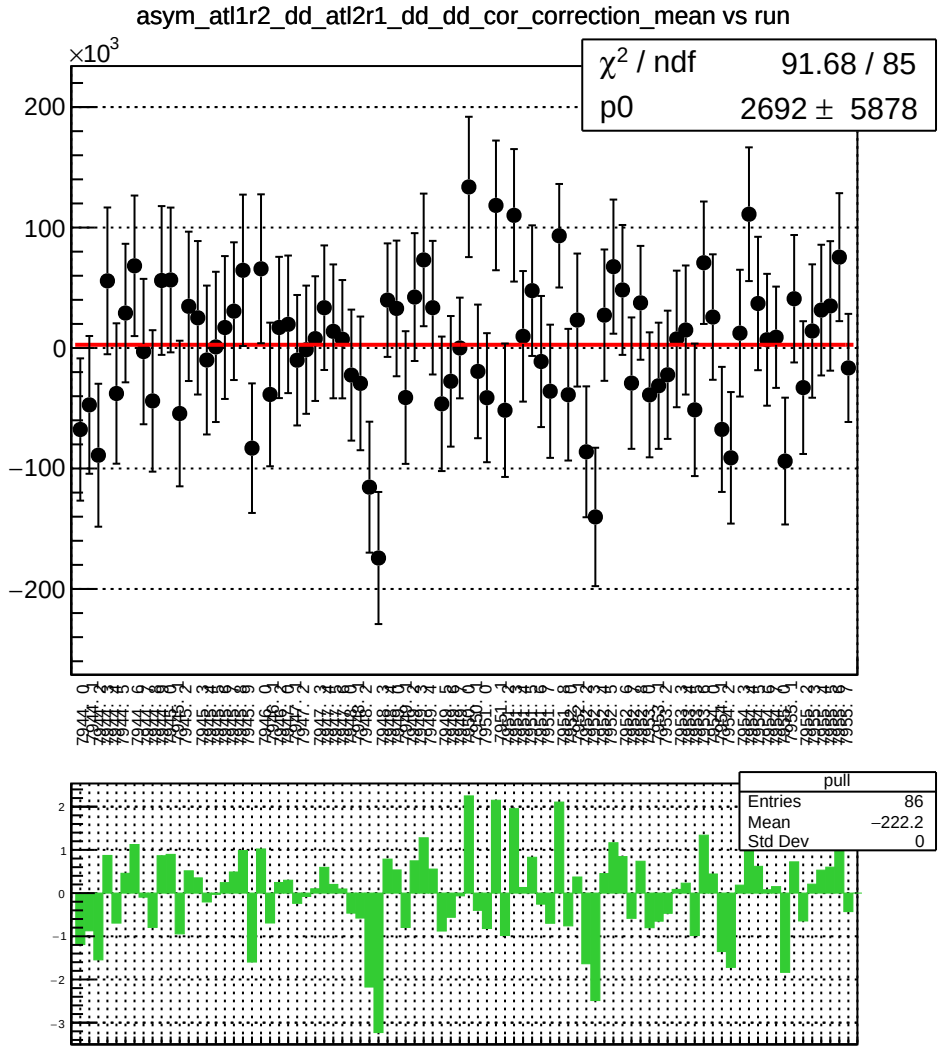

pull1D
Entries 86
Mean −0.005409
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

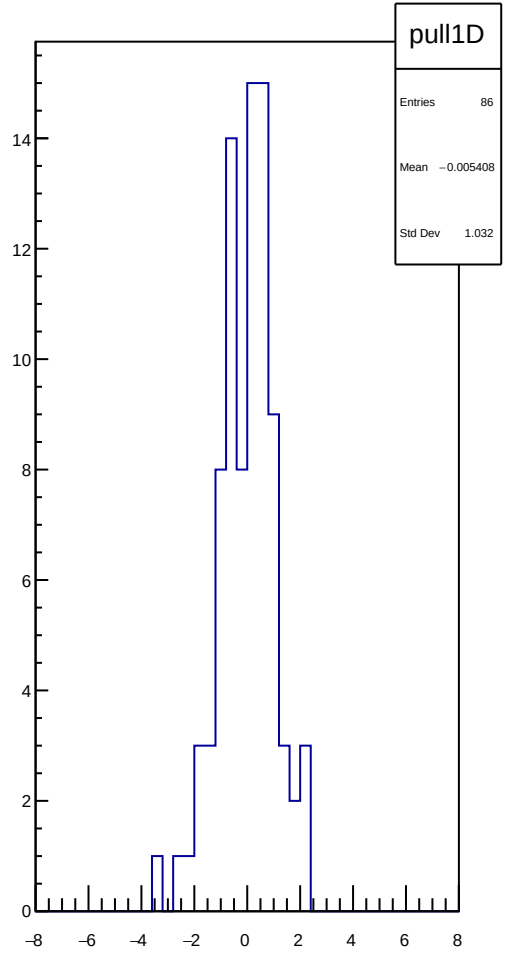

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 4383 / 85
p0 5282 ± 4.157
6200
6000
5800
5600
5400
5200
5000
4800

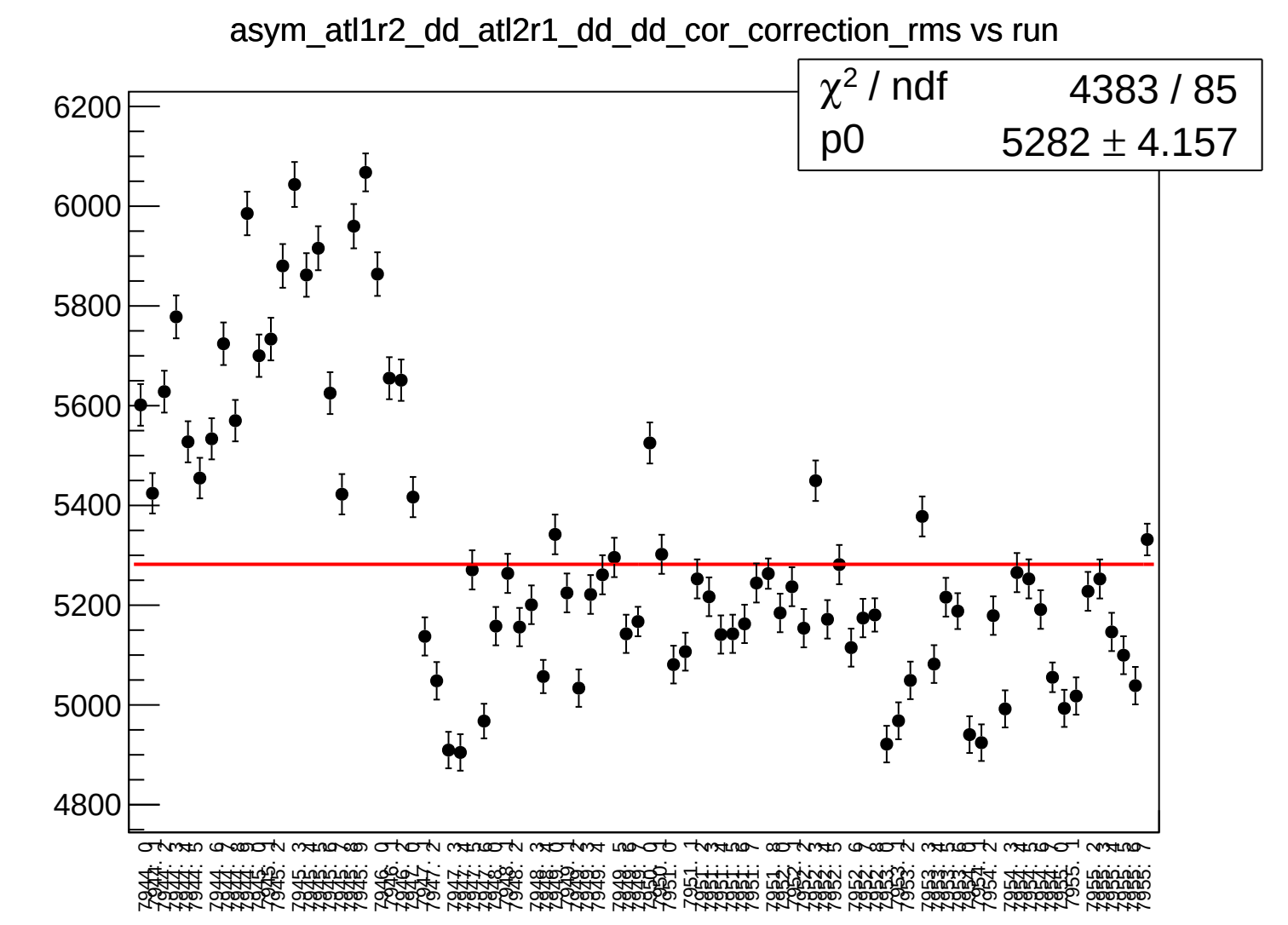

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 72.69 / 85
p0 721 ± 1419
pull
Entries 86
Mean 848.1
Std Dev 0

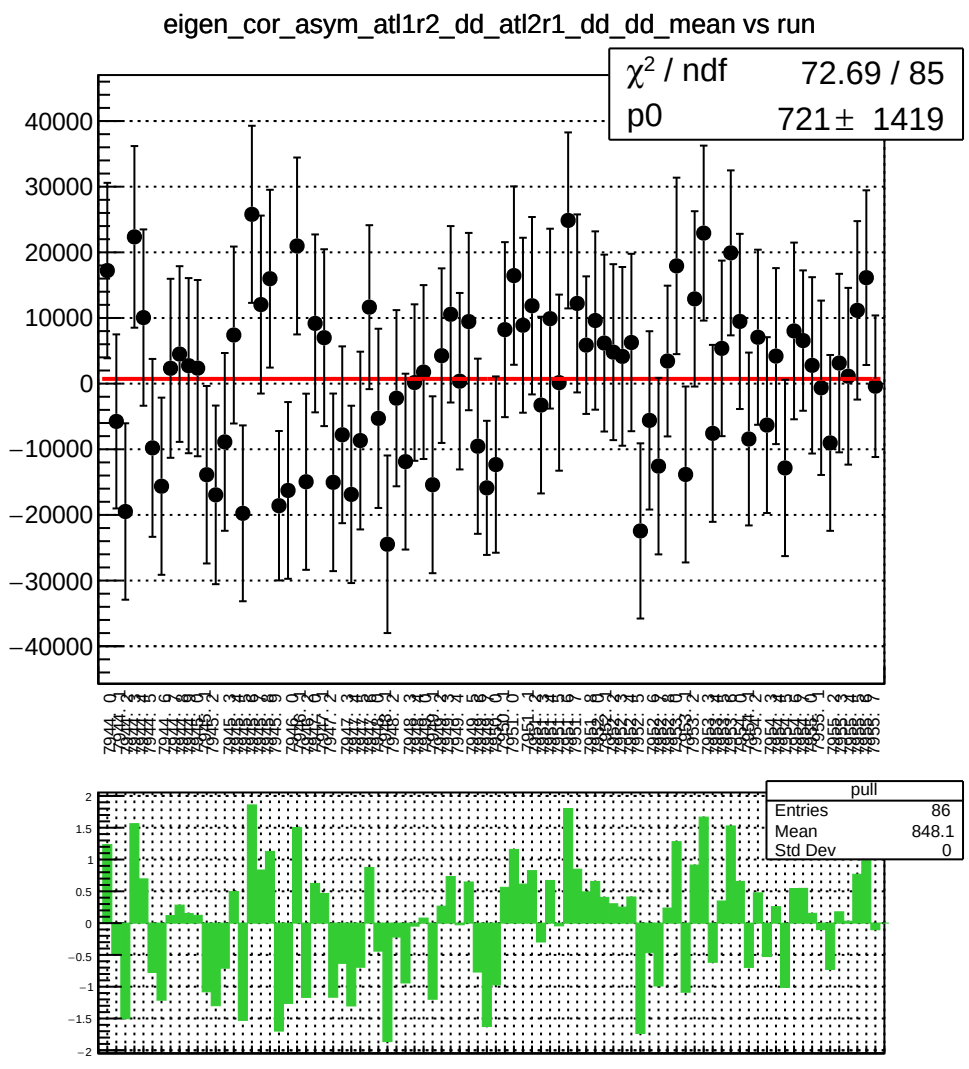

pull1D
Entries 86
Mean 0.004673
Std Dev 0.9194

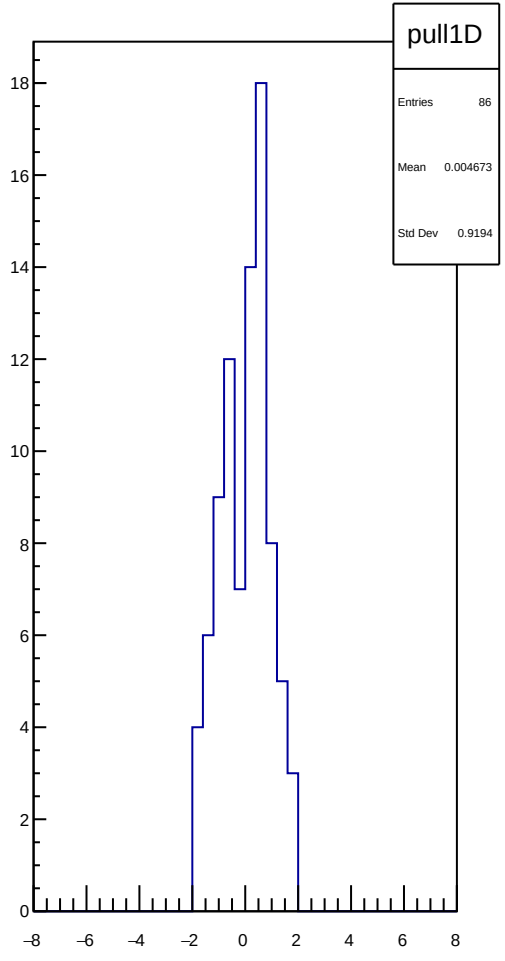

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 109.5 / 85
p0 1277 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

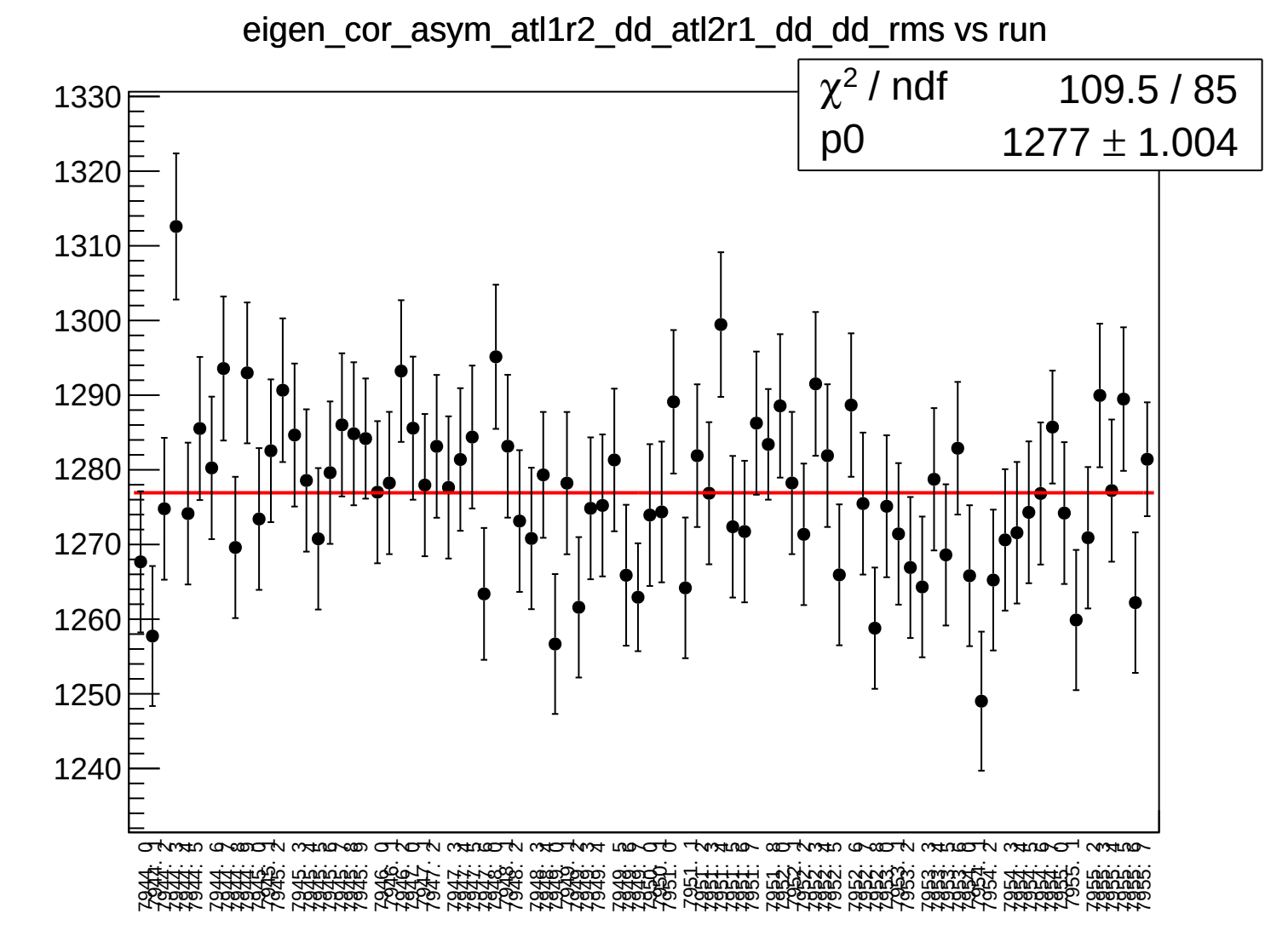

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.68 / 85
p0 2692 ± 5878
200
100
0
−100
−200
pull
Entries 86
Mean −222.2
Std Dev 0
2
1
0
−1
−2
−3

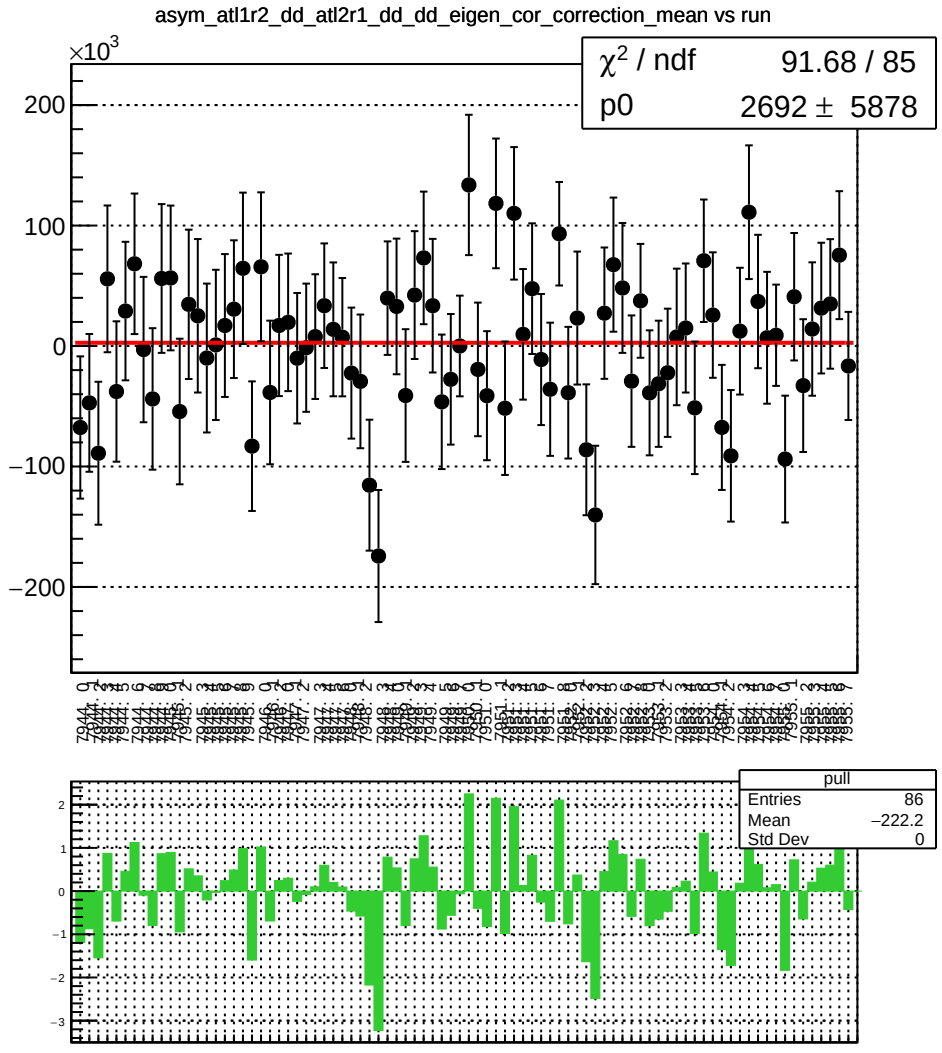

pull1D
Entries 86
Mean −0.005408
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

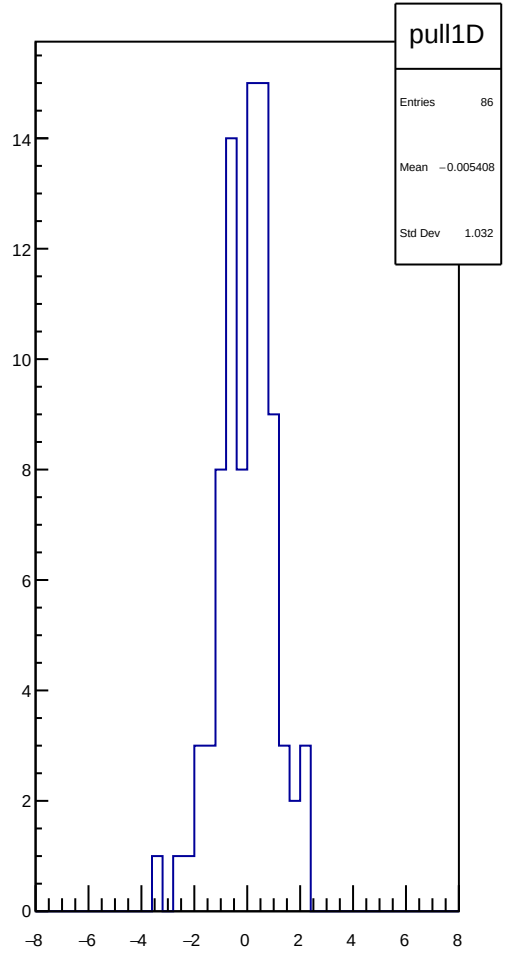

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 4383 / 85
p0 5282 ± 4.157
6200
6000
5800
5600
5400
5200
5000
4800

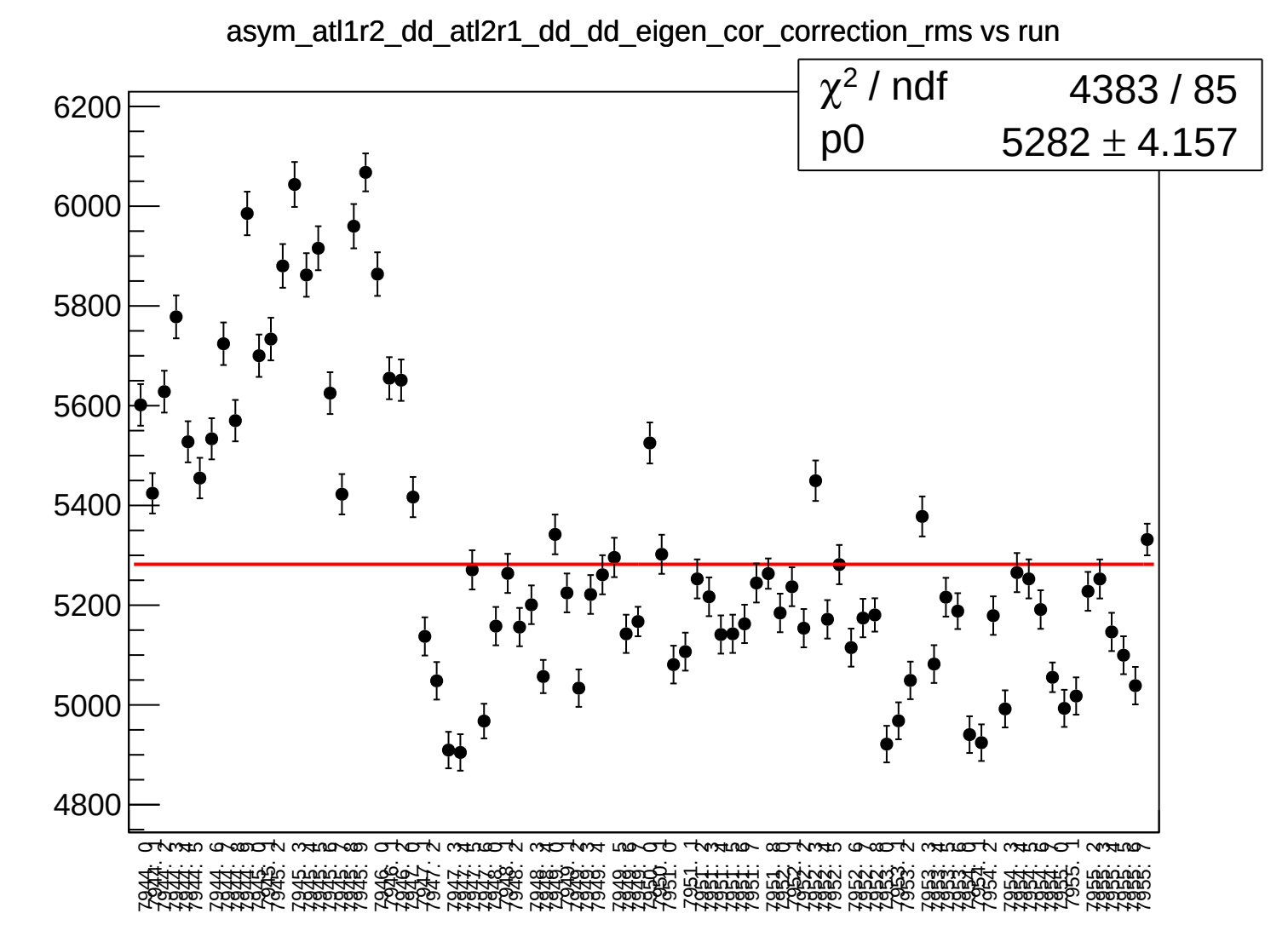

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 72.69 / 85
p0 721 ± 1419
pull
Entries 86
Mean 848.1
Std Dev 0

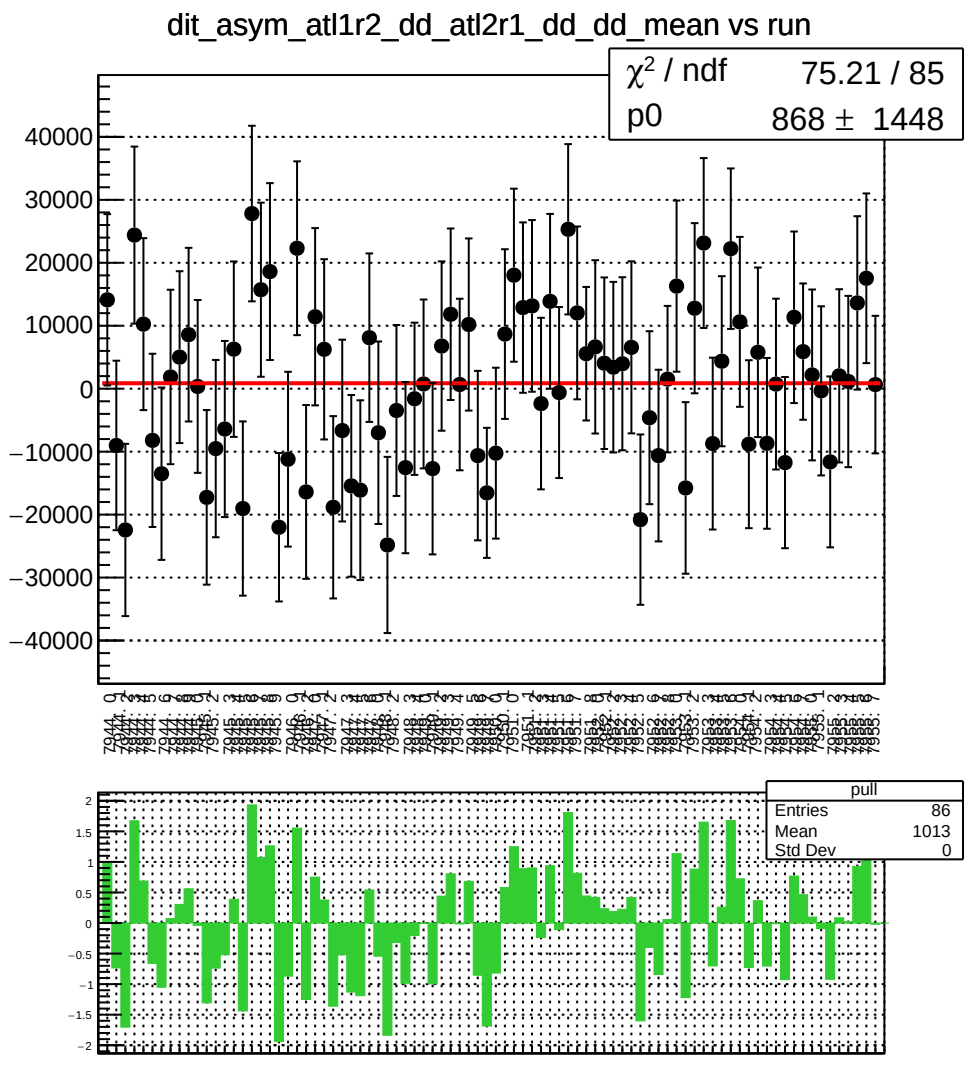

pull1D
Entries 86
Mean 0.004673
Std Dev 0.9194

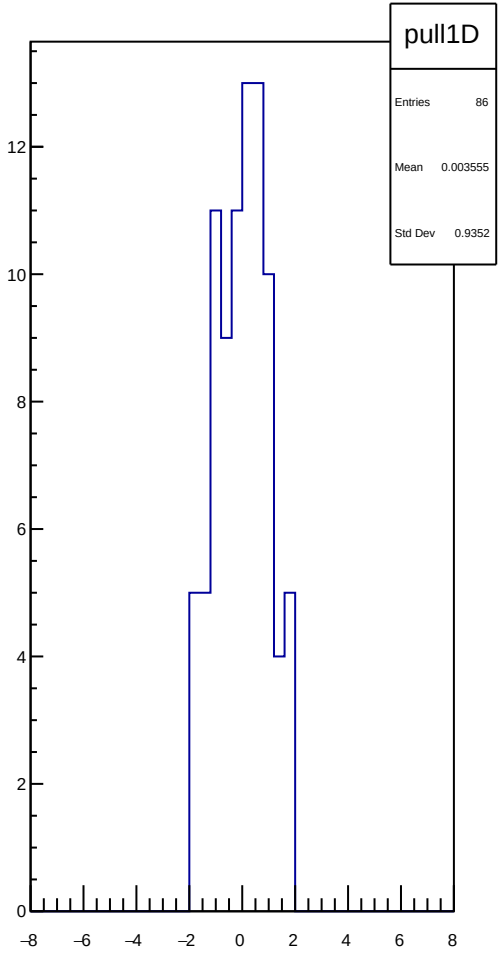

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 109.5 / 85
p0 1277 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

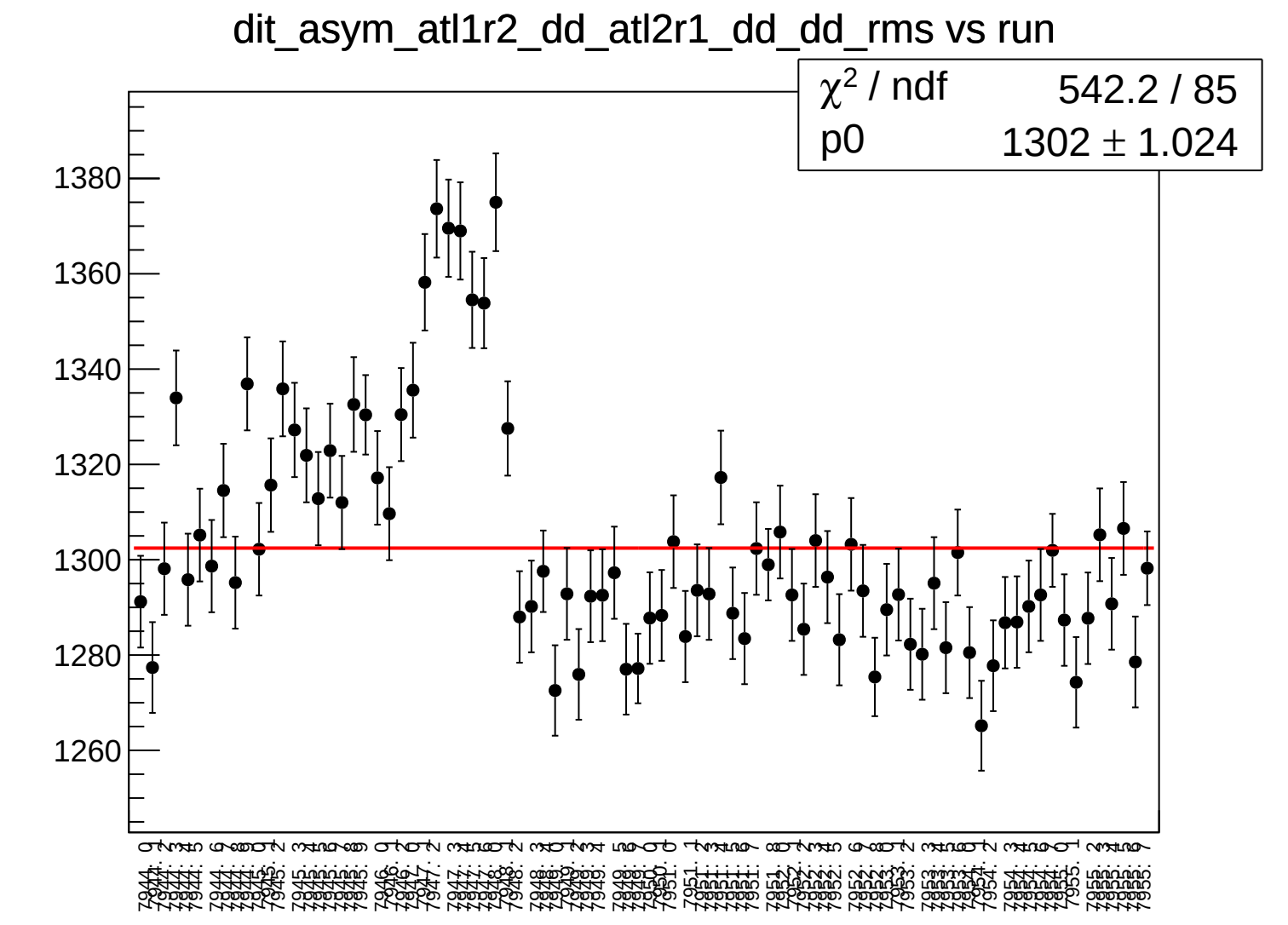

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.68 / 85
p0 2692 ± 5878
200
100
0
−100
−200
pull
Entries 86
Mean −222.2
Std Dev 0
2
1
0
−1
−2
−3

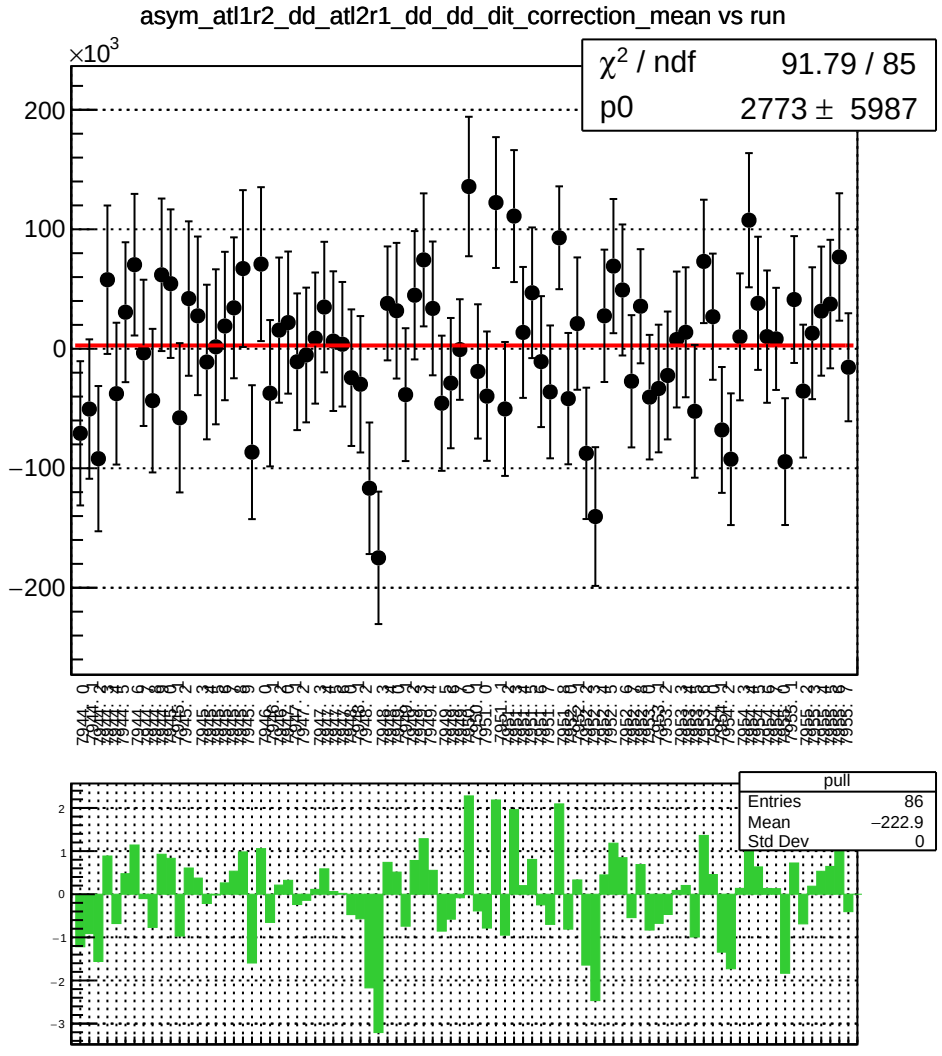

pull1D
Entries 86
Mean −0.005408
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

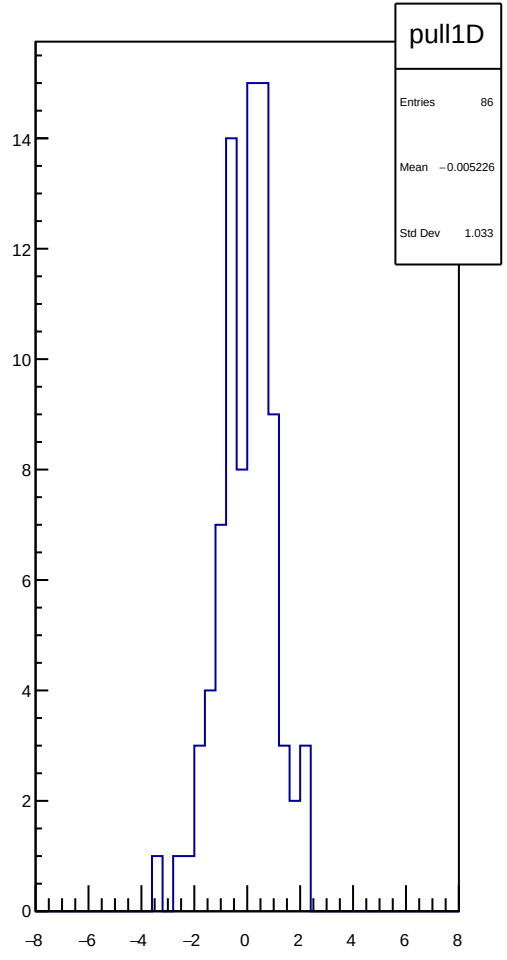

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4383 / 85
p0 5282 ± 4.157
6200
6000
5800
5600
5400
5200
5000
4800

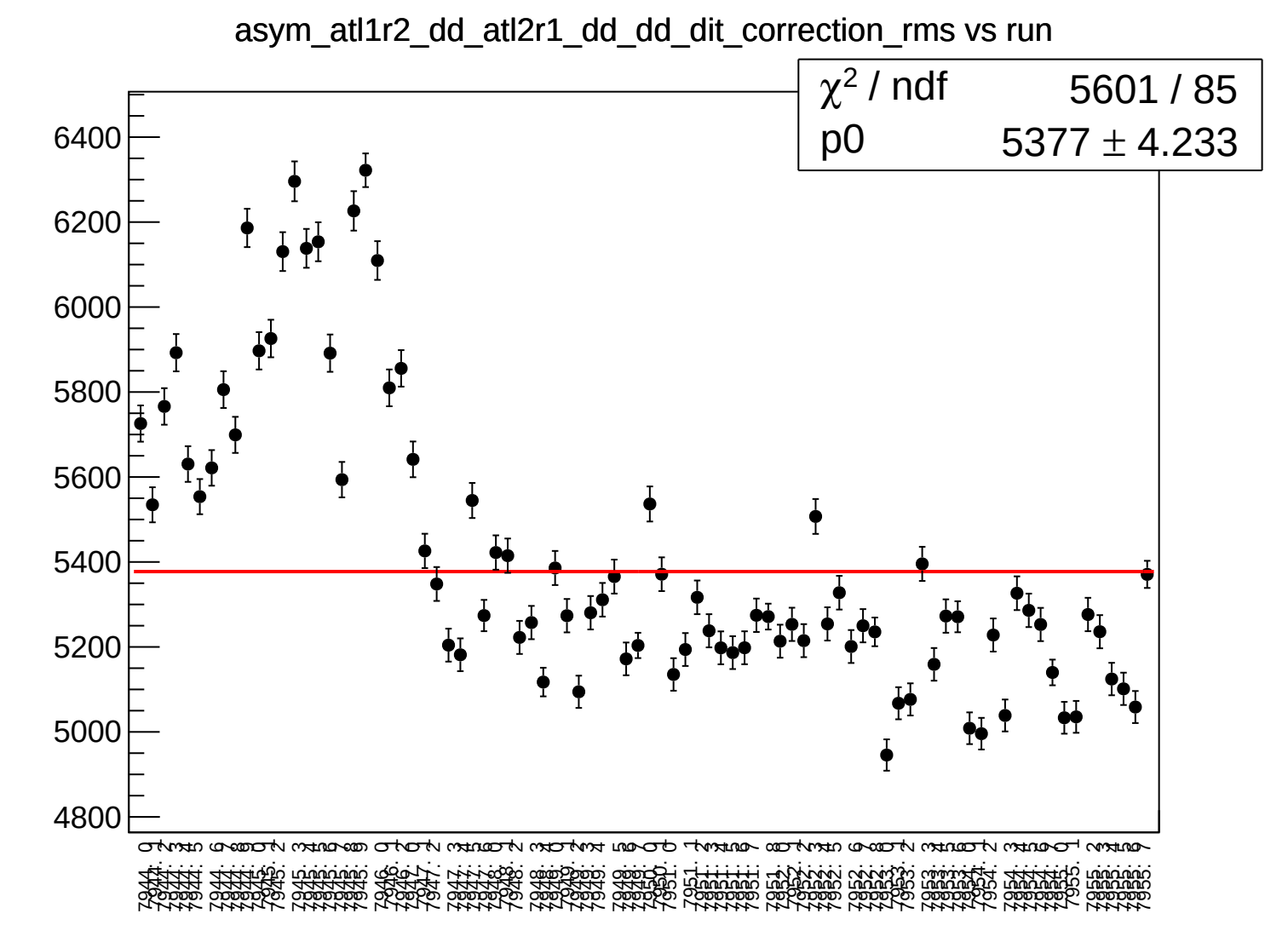

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 75.21 / 85
p0 868 ± 1448
pull
Entries 86
Mean 1013
Std Dev 0

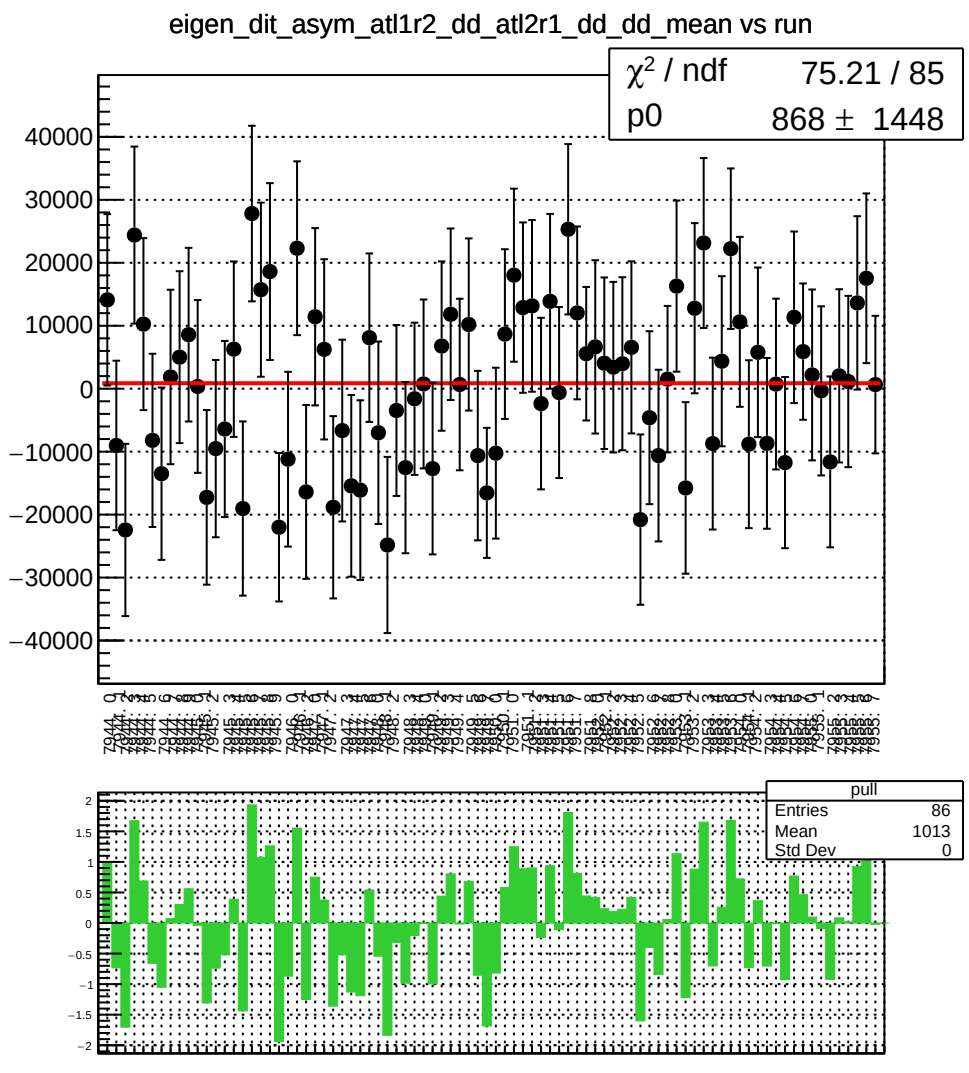

pull1D
Entries 86
Mean 0.003555
Std Dev 0.9352

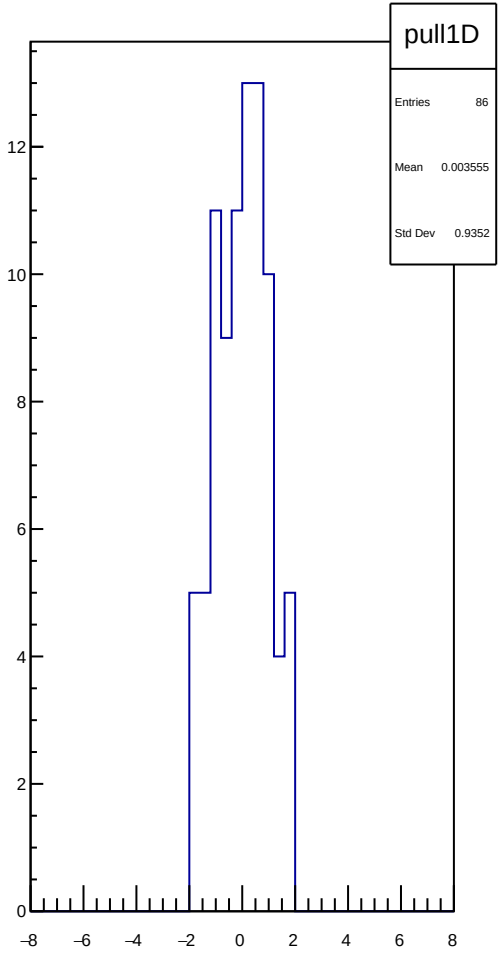

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 542.2 / 85
p0 1302 ± 1.024
1380
1360
1340
1320
1300
1280
1260

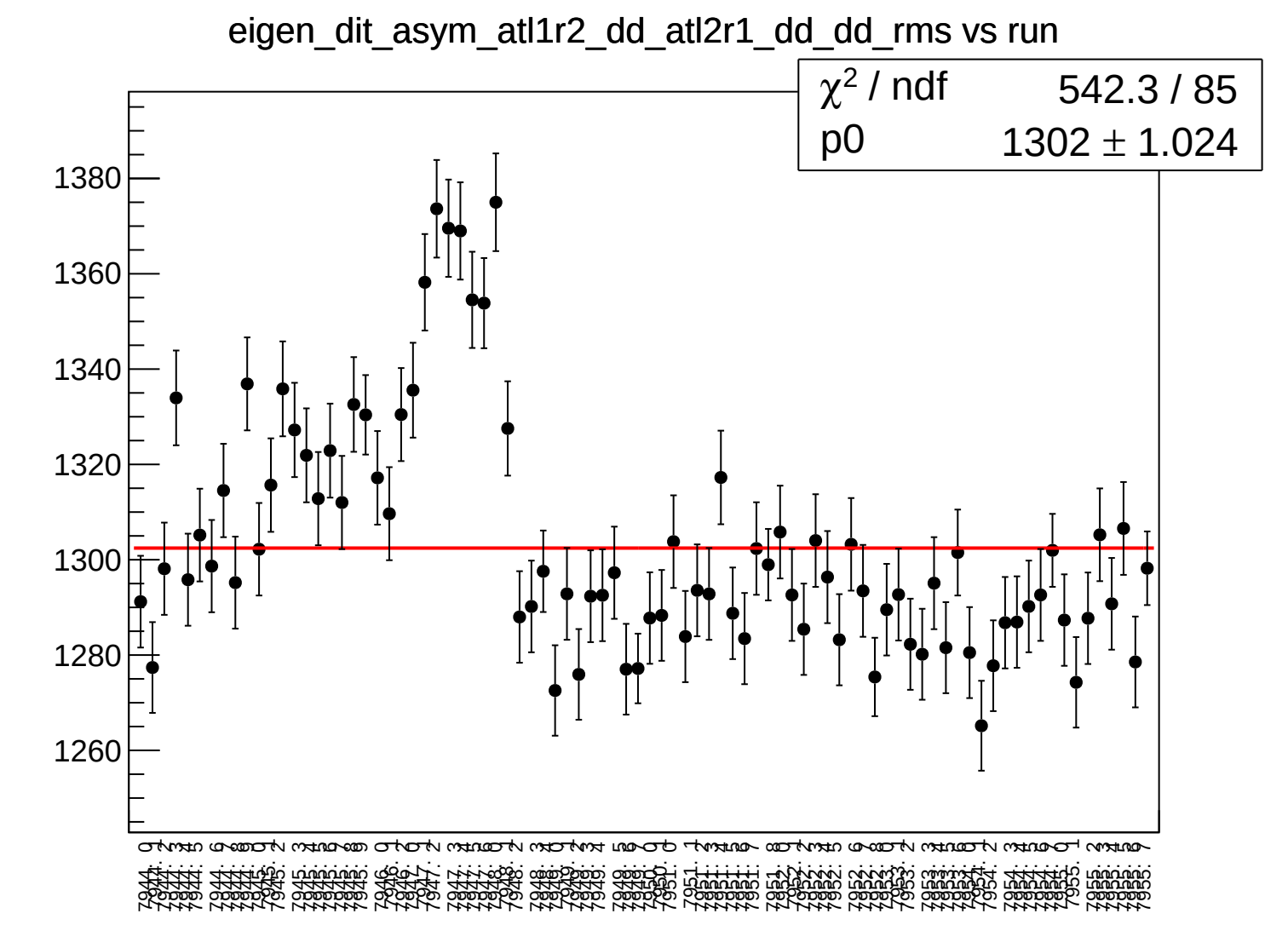

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 91.79 / 85
p0 2773 ± 5987
200
100
0
−100
−200
pull
Entries 86
Mean −222.9
Std Dev 0
2
1
0
−1
−2
−3

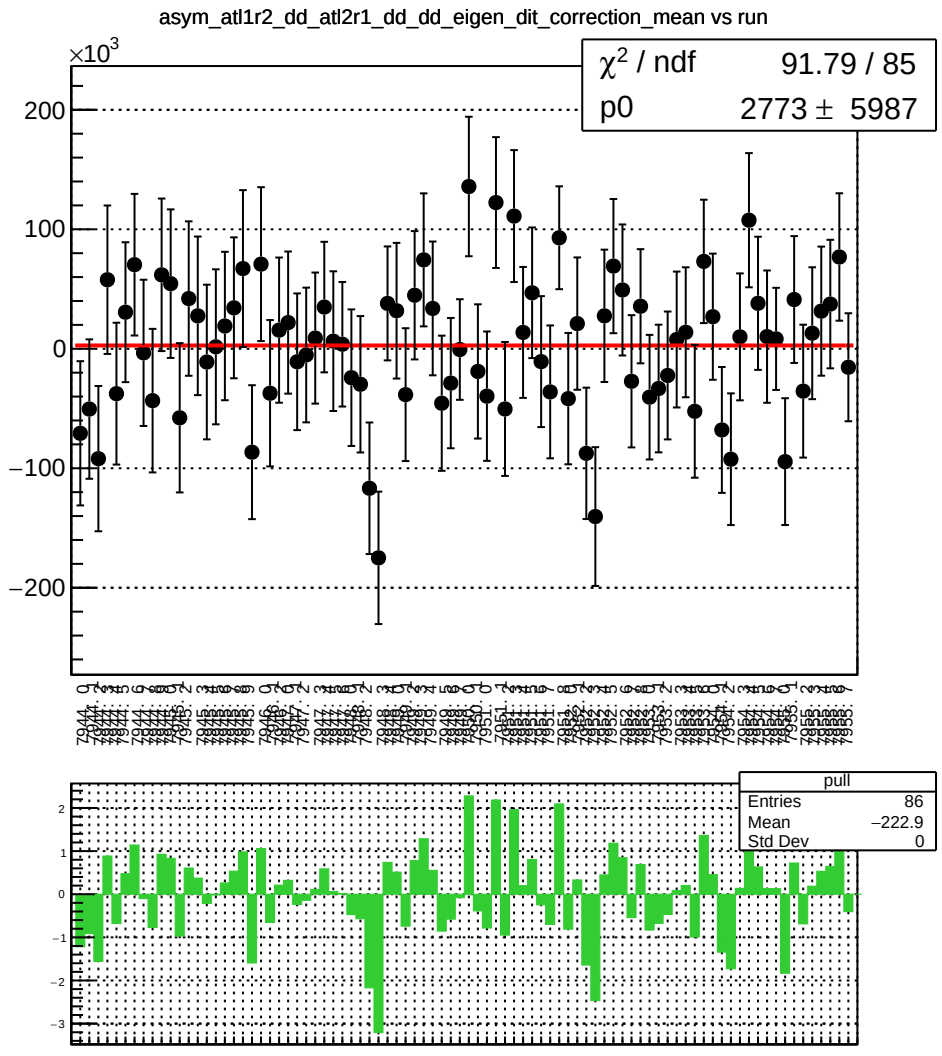

pull1D
Entries 86
Mean −0.005226
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

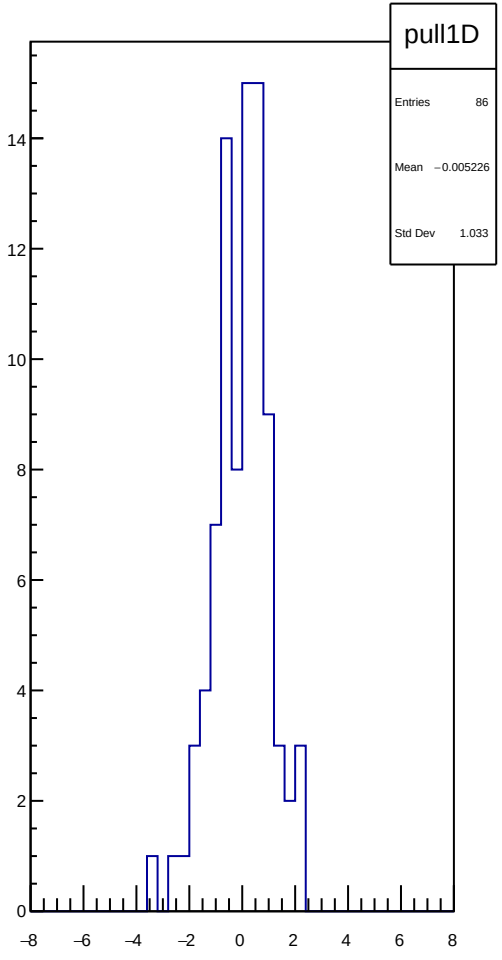

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 5601 / 85
p0 5377 ± 4.233
6400
6200
6000
5800
5600
5400
5200
5000
4800

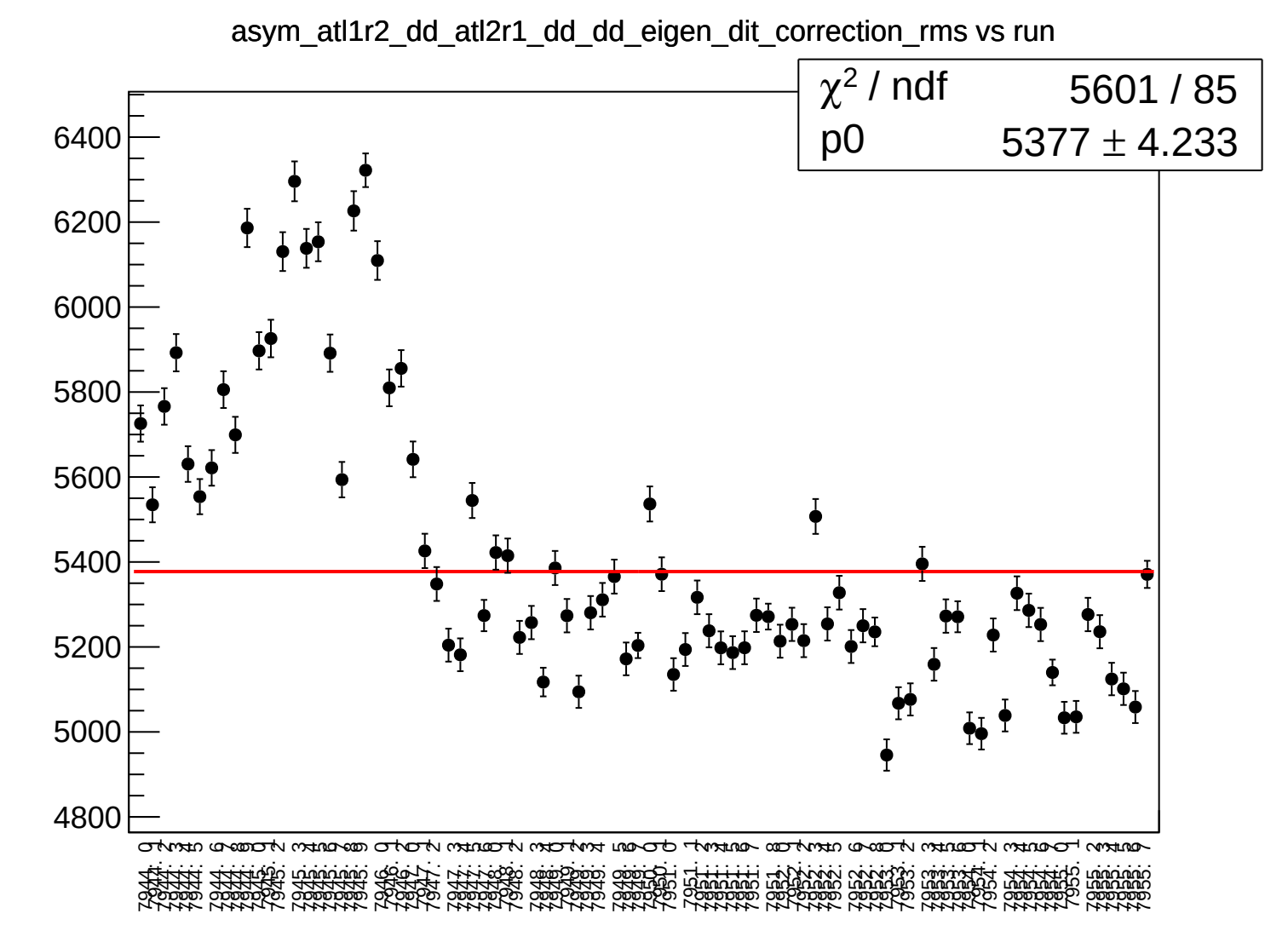

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 75.21 / 85
p0 868 ± 1448
pull
Entries 86
Mean 1013
Std Dev 0

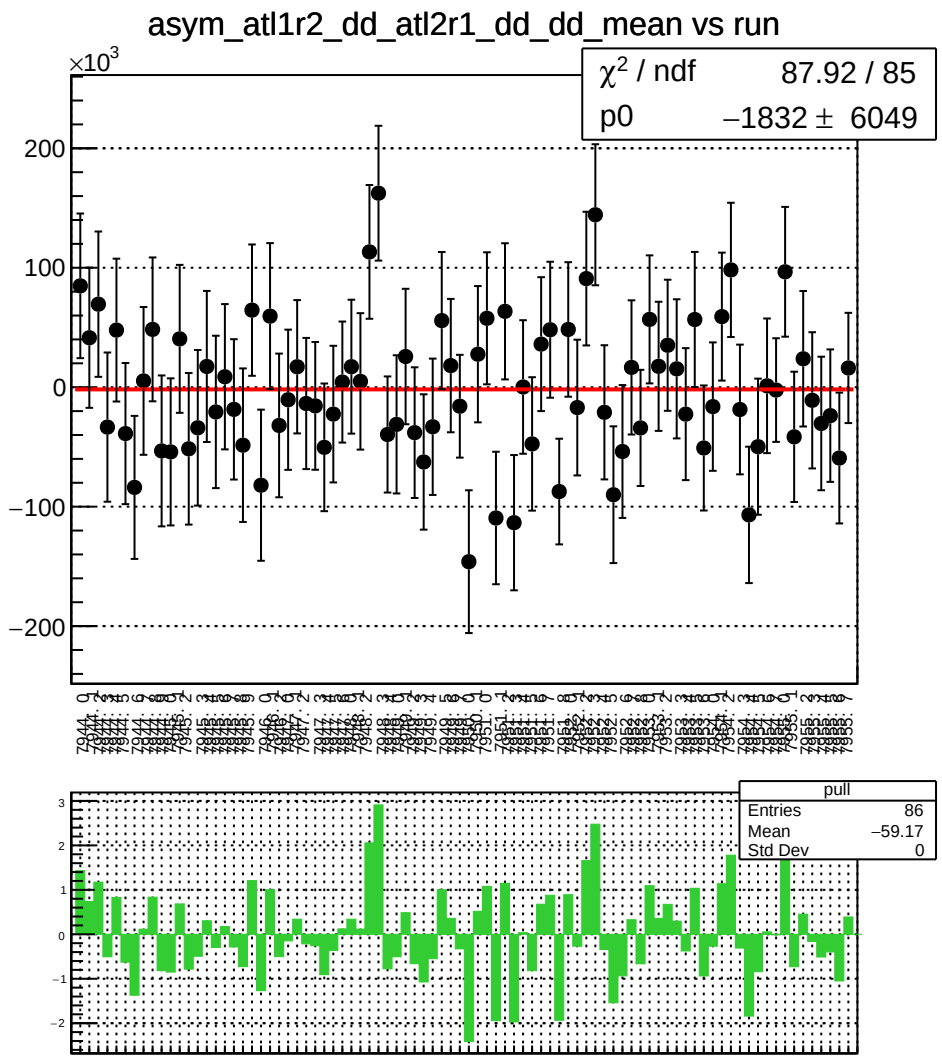

pull1D
Entries 86
Mean 0.003555
Std Dev 0.9352

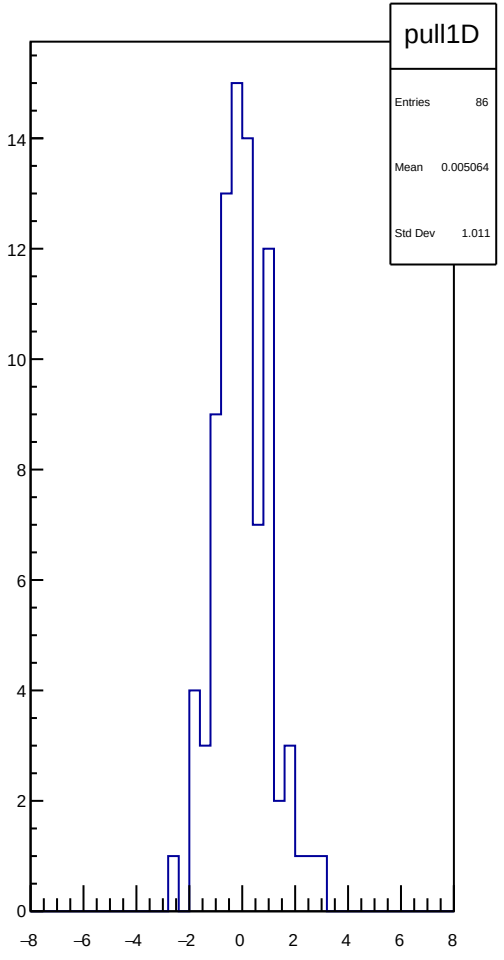

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 542.3 / 85
p0 1302 ± 1.024
1380
1360
1340
1320
1300
1280
1260

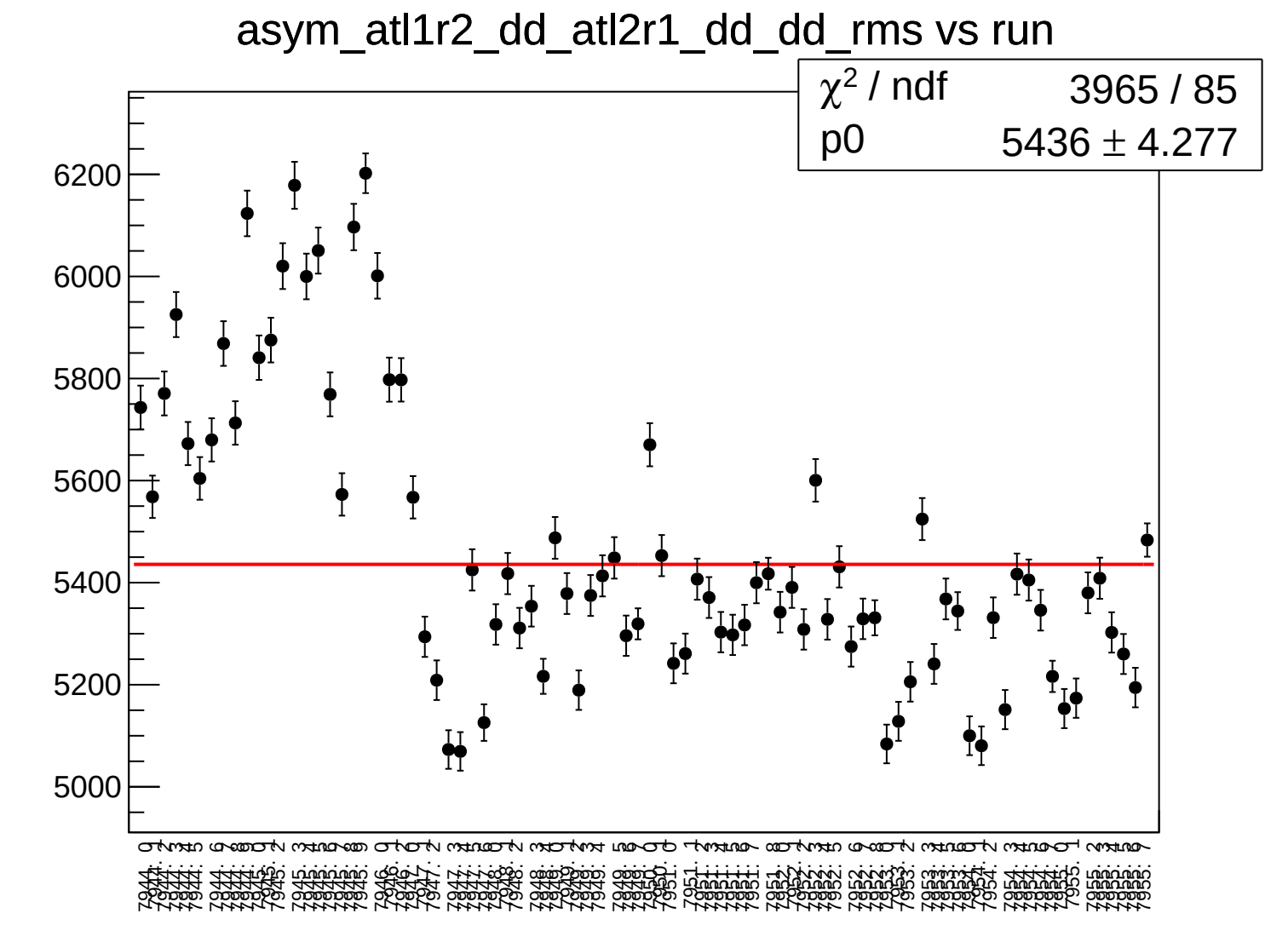

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.79 / 85
p0 2773 ± 5987
200
100
0
−100
−200
pull
Entries 86
Mean −222.9
Std Dev 0
2
1
0
−1
−2
−3

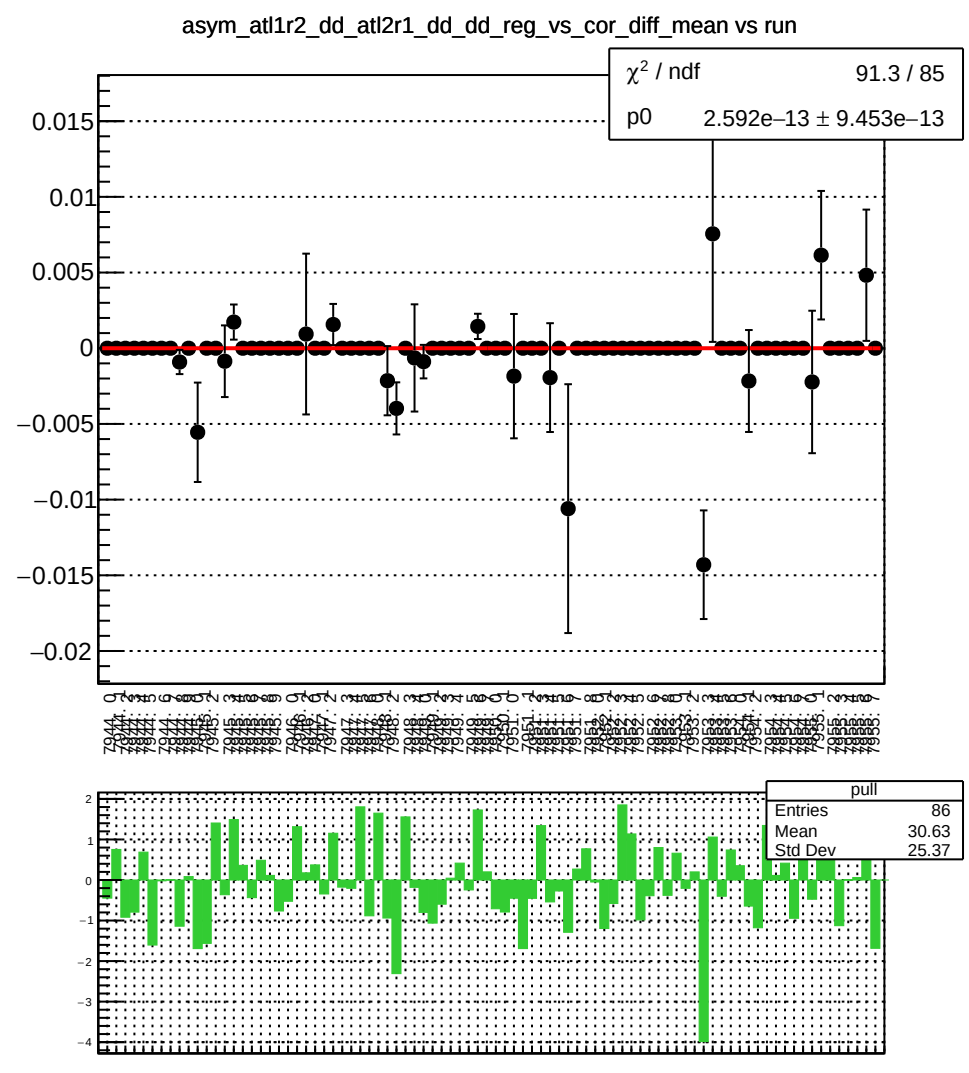

pull1D
Entries 86
Mean −0.005226
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

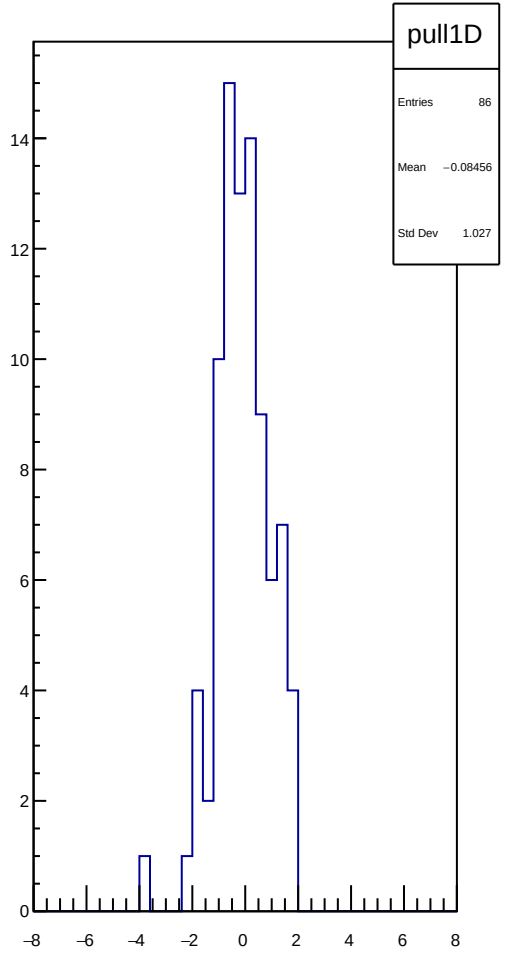

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5601 / 85
p0 5377 ± 4.233
6400
6200
6000
5800
5600
5400
5200
5000
4800

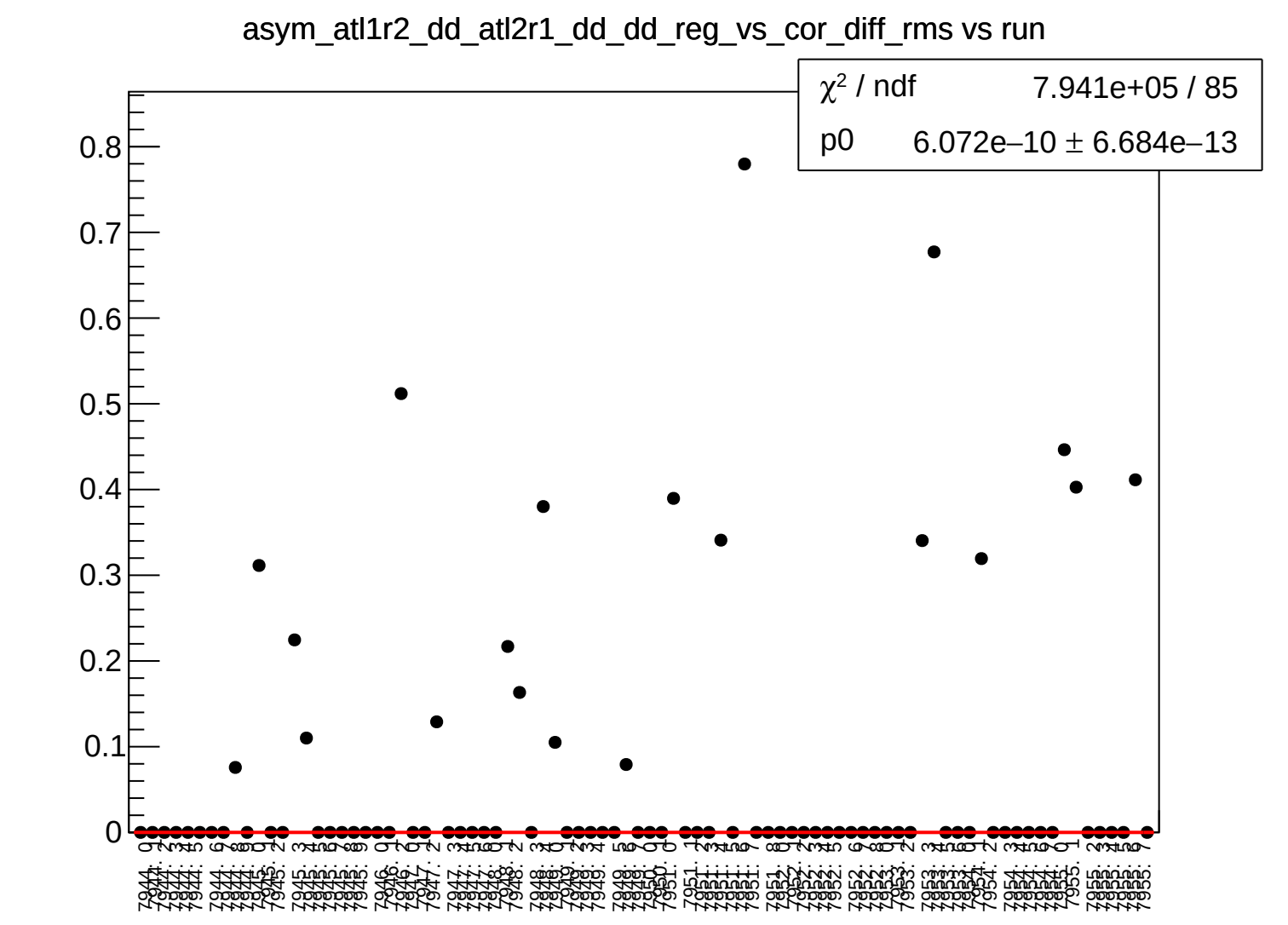

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 87.92 / 85
p0 −1832 ± 6049
200
100
0
−100
−200
pull
Entries 86
Mean −59.17
Std Dev 0
3
2
1
0
−1
−2

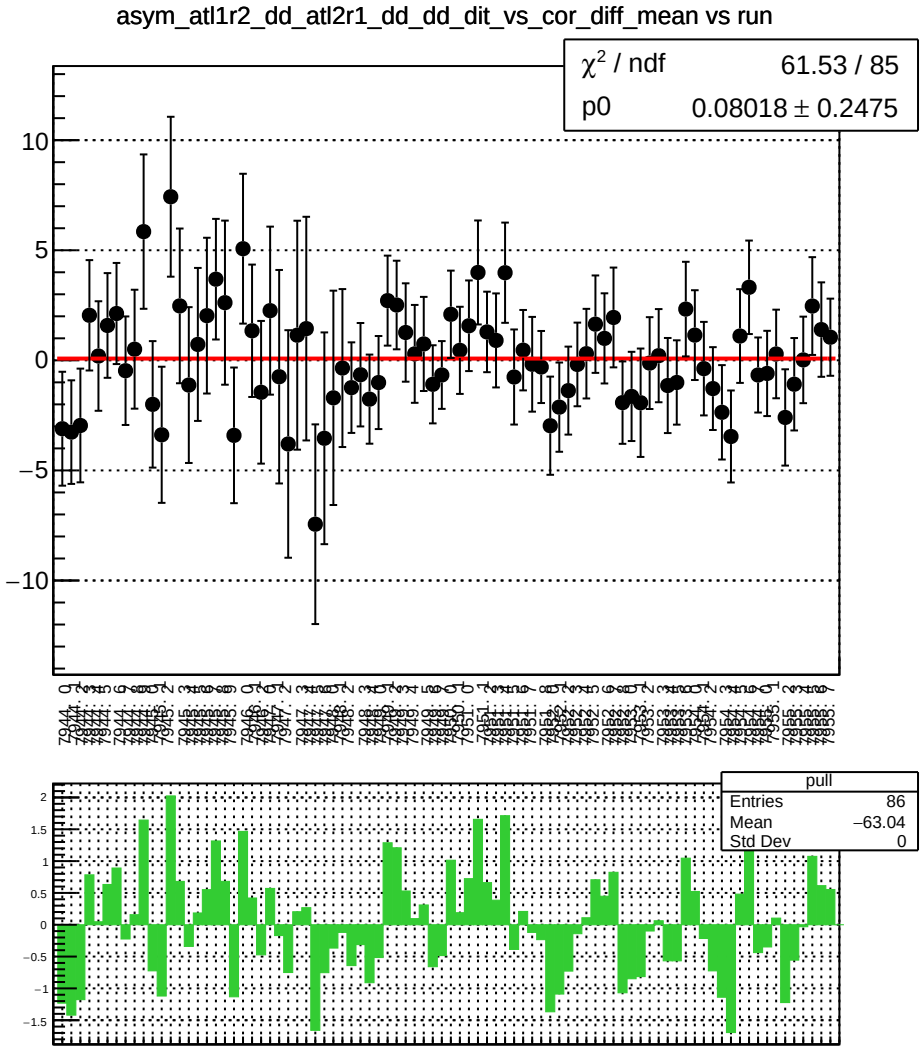

pull1D
Entries 86
Mean 0.005064
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

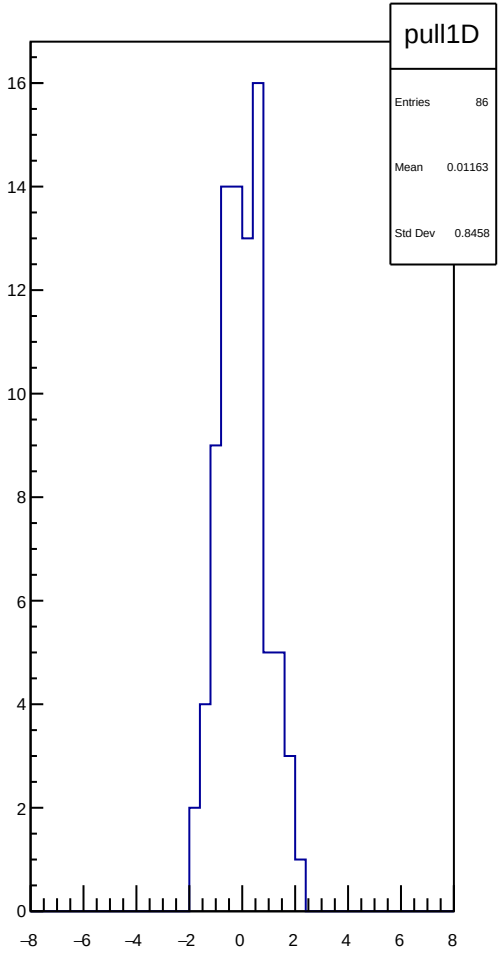

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3965 / 85
p0 5436 ± 4.277
6200
6000
5800
5600
5400
5200
5000

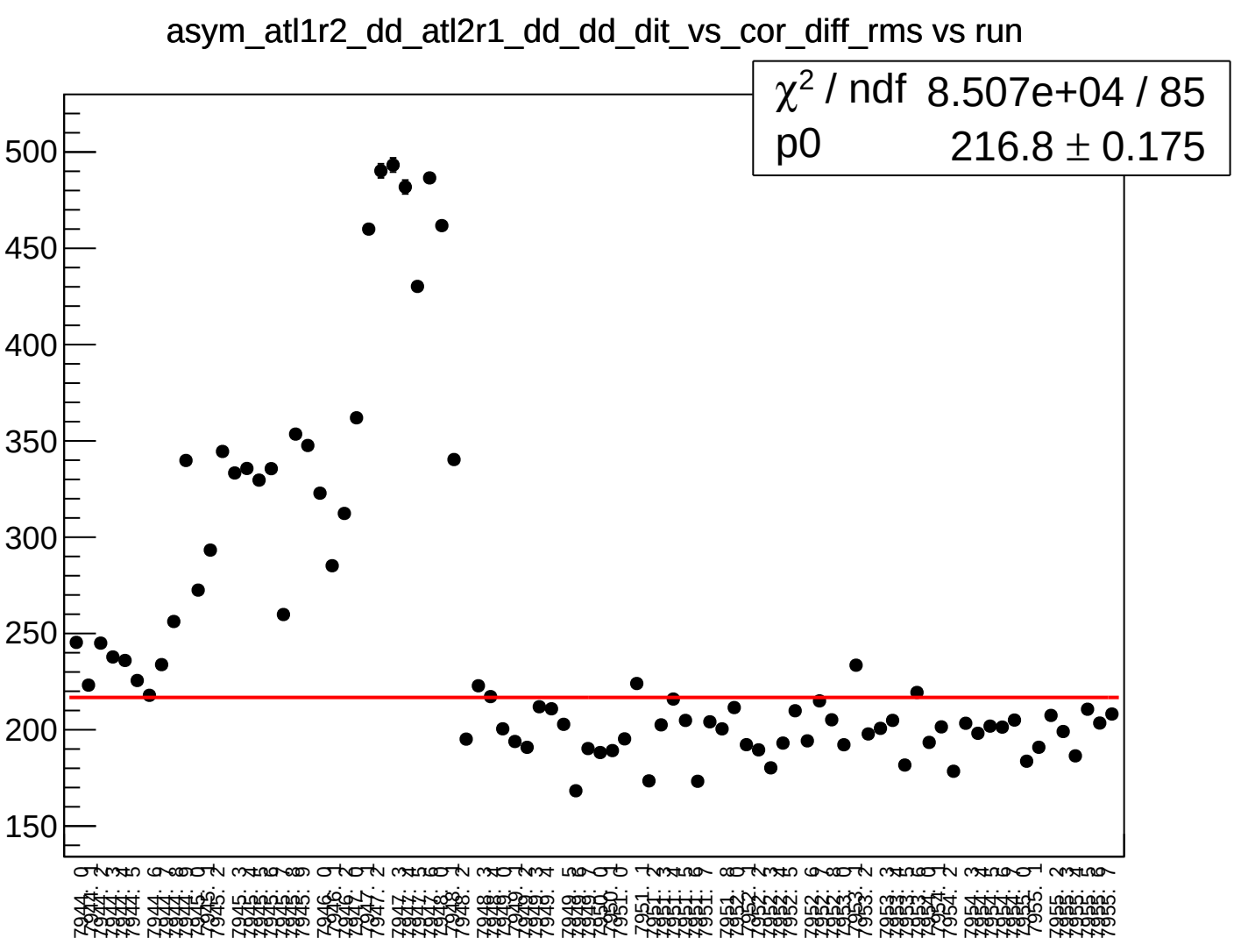

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.3 / 85
p0 2.592e−13 ± 9.453e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 86
Mean 30.63
Std Dev 25.37
2
1
0
−1
−2
−3
−4

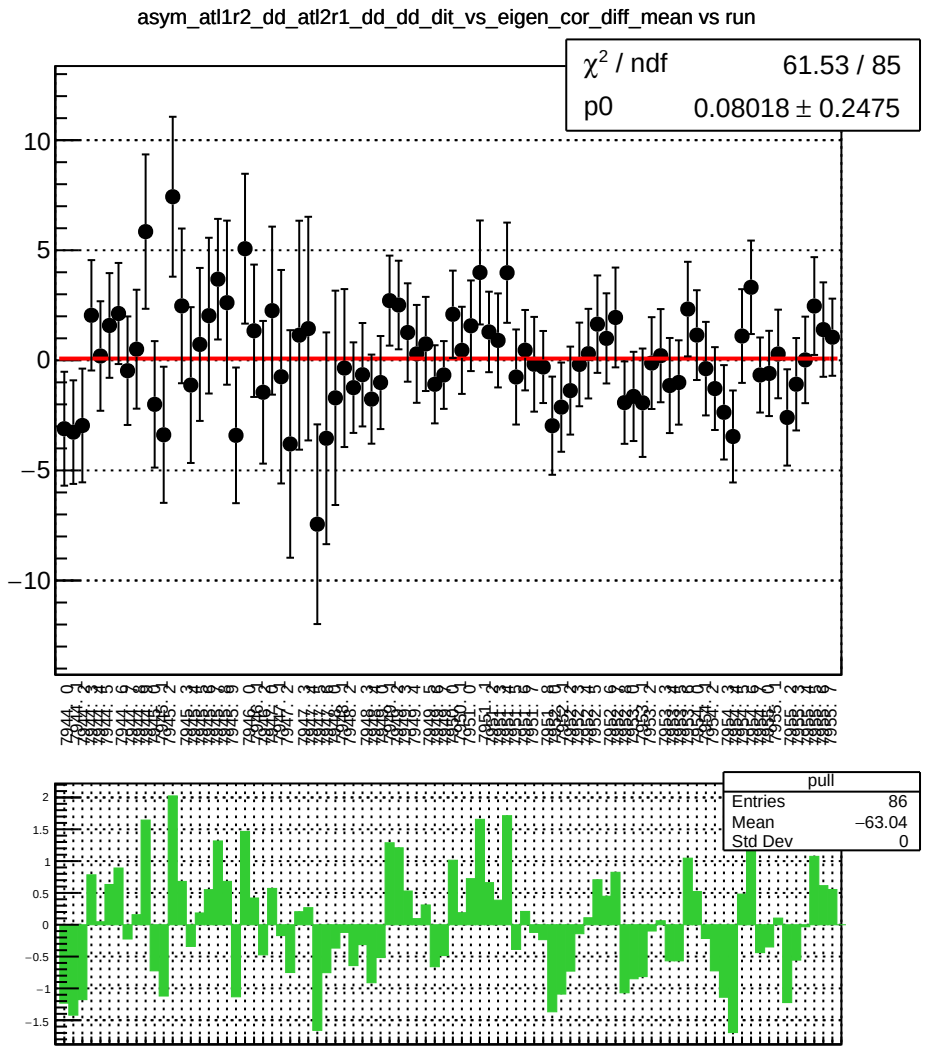

pull1D
Entries 86
Mean −0.08456
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

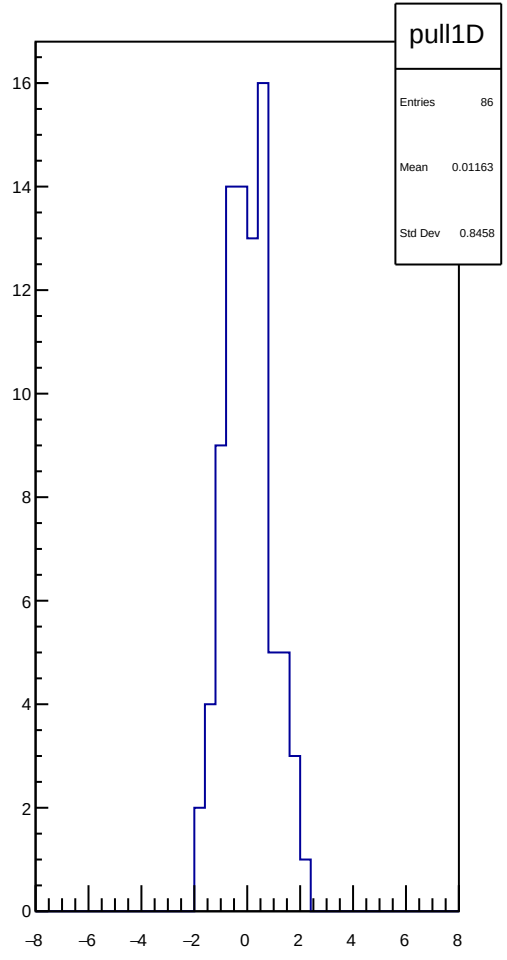

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.941e+05 / 85
p0 6.072e−10 ± 6.684e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

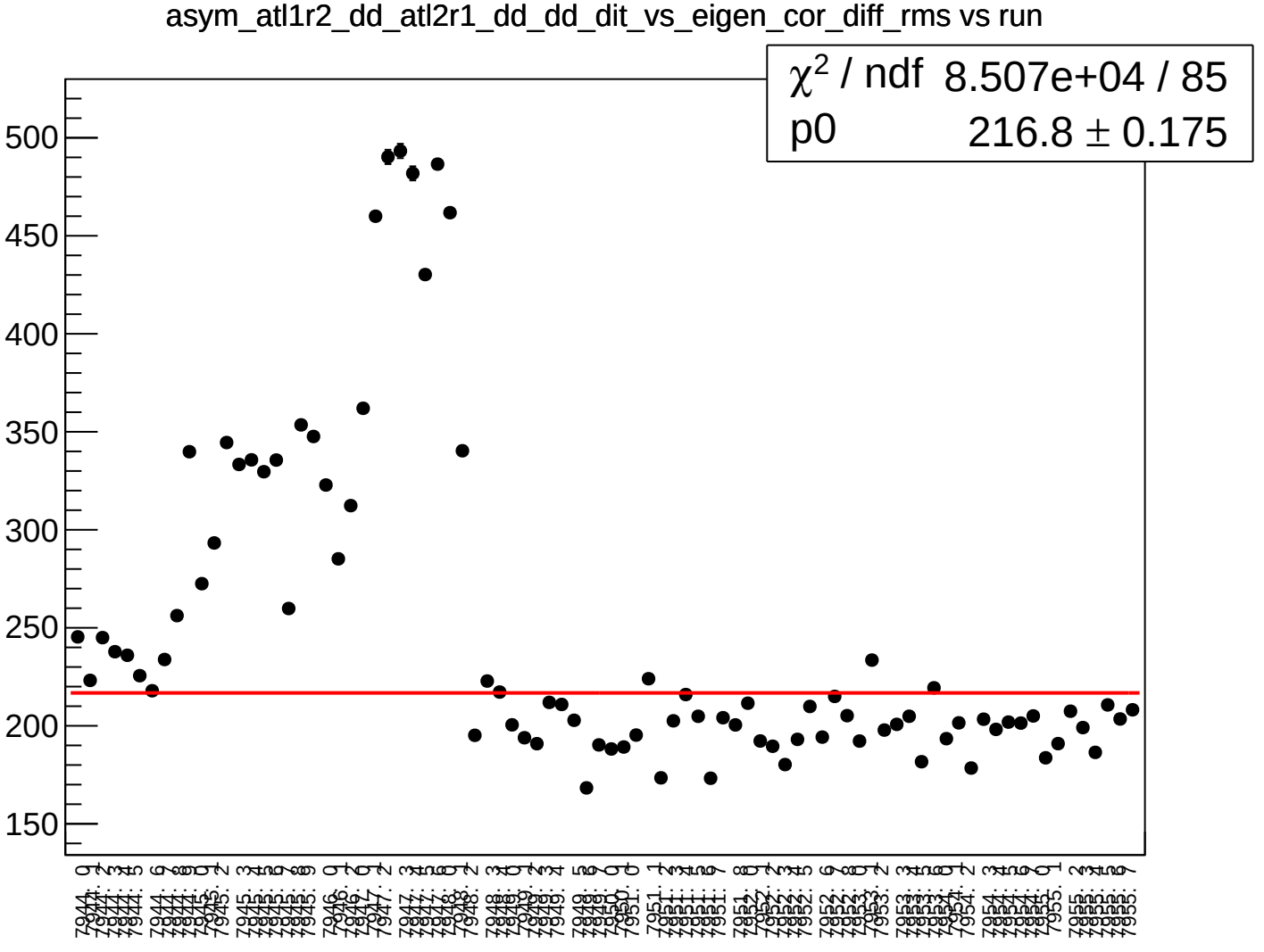

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08018 ± 0.2475
pull
Entries 86
Mean −63.04
Std Dev 0

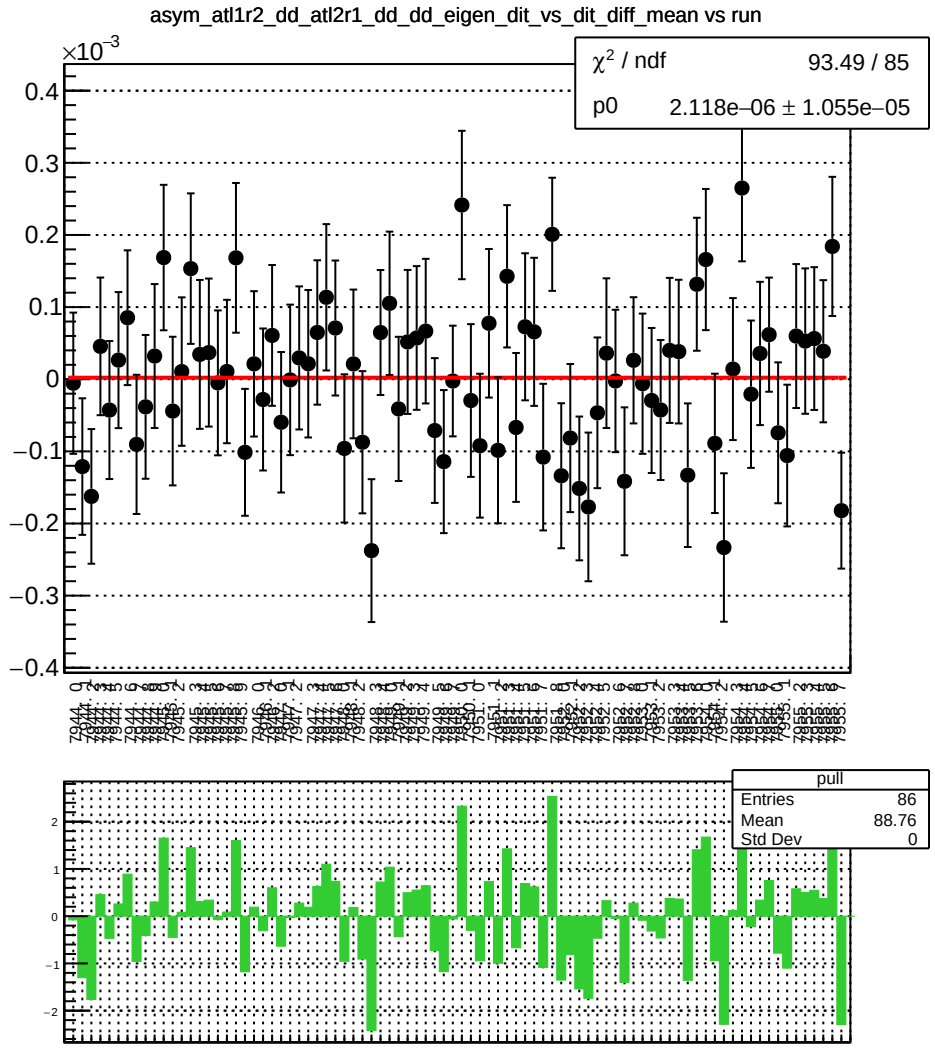

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

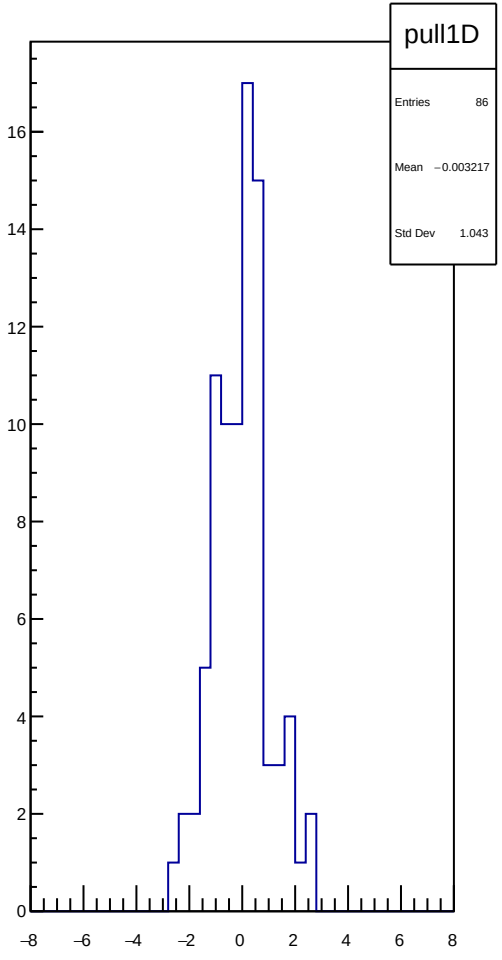

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

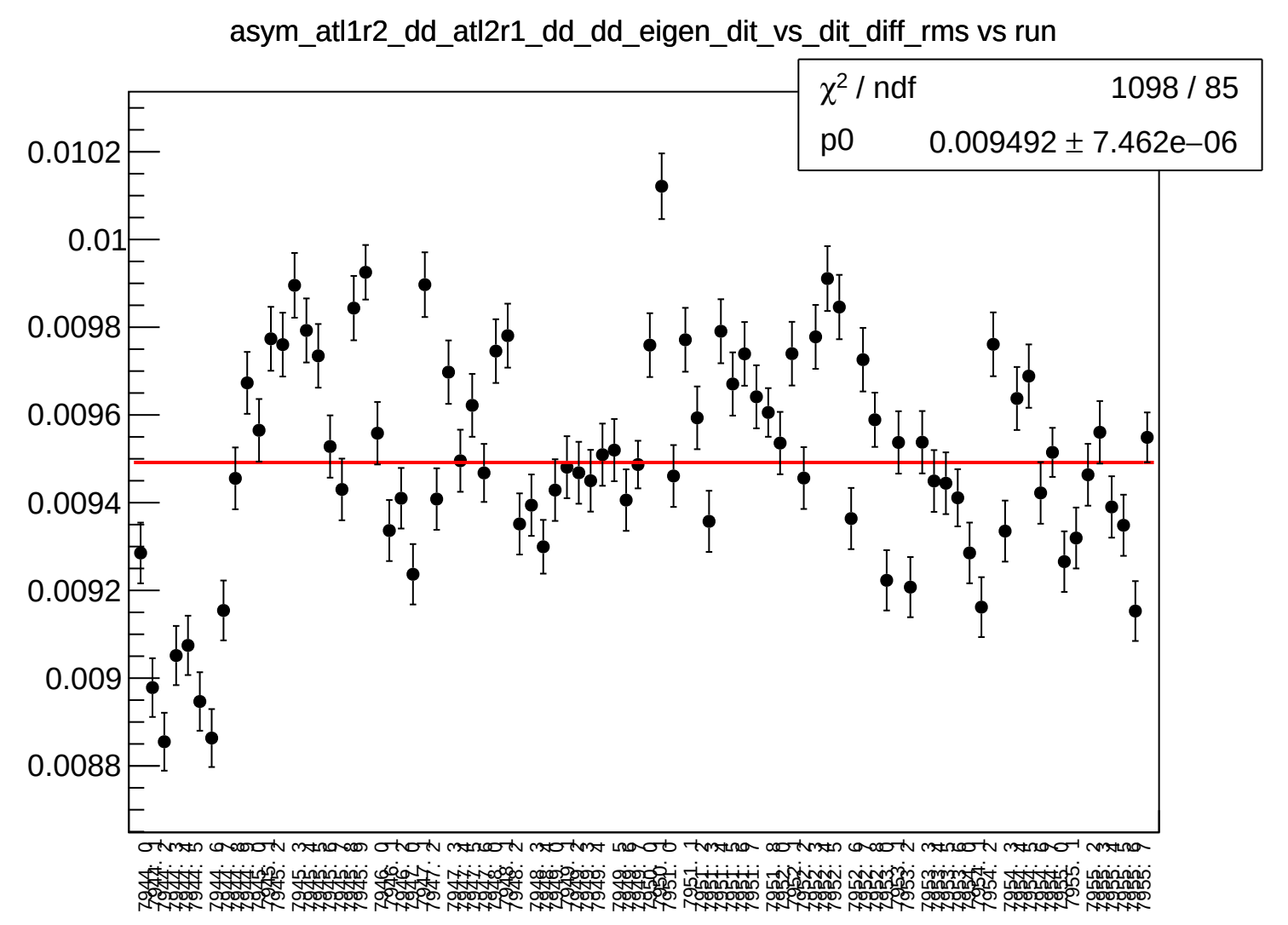

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08018 ± 0.2475
pull
Entries 86
Mean −63.04
Std Dev 0

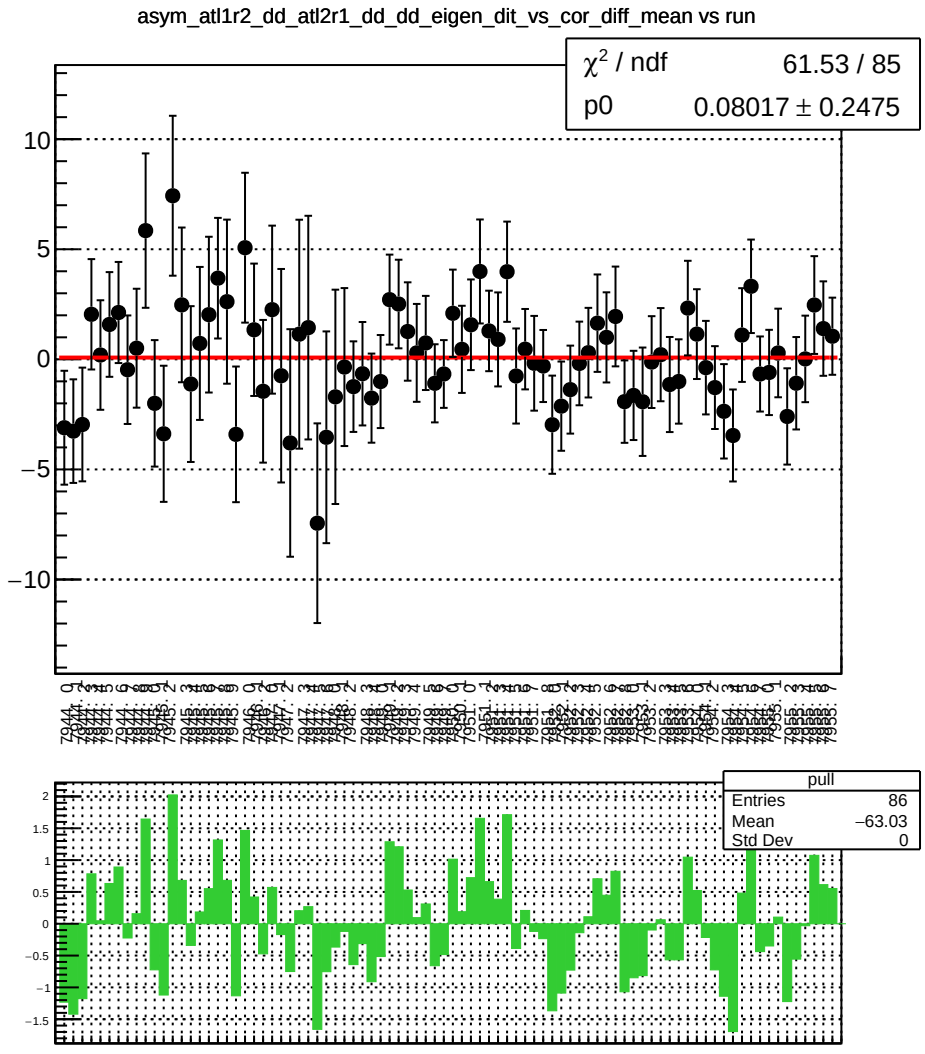

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

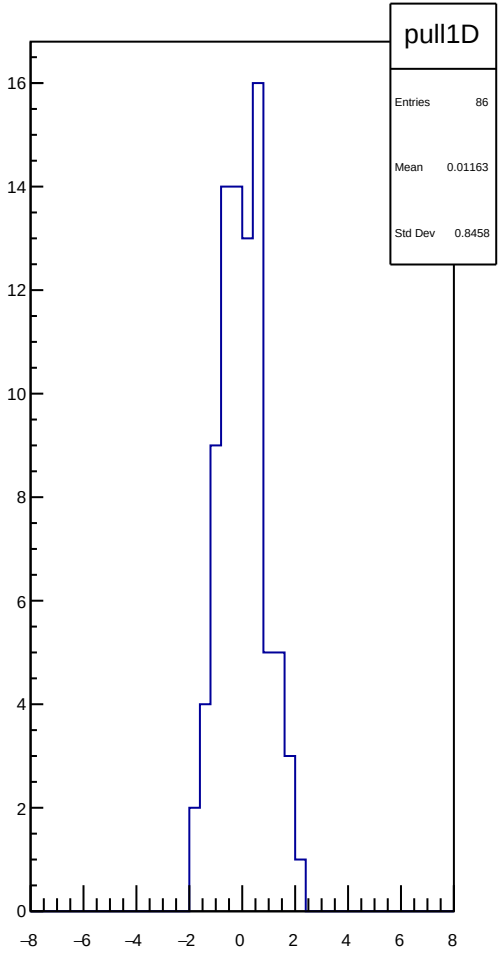

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

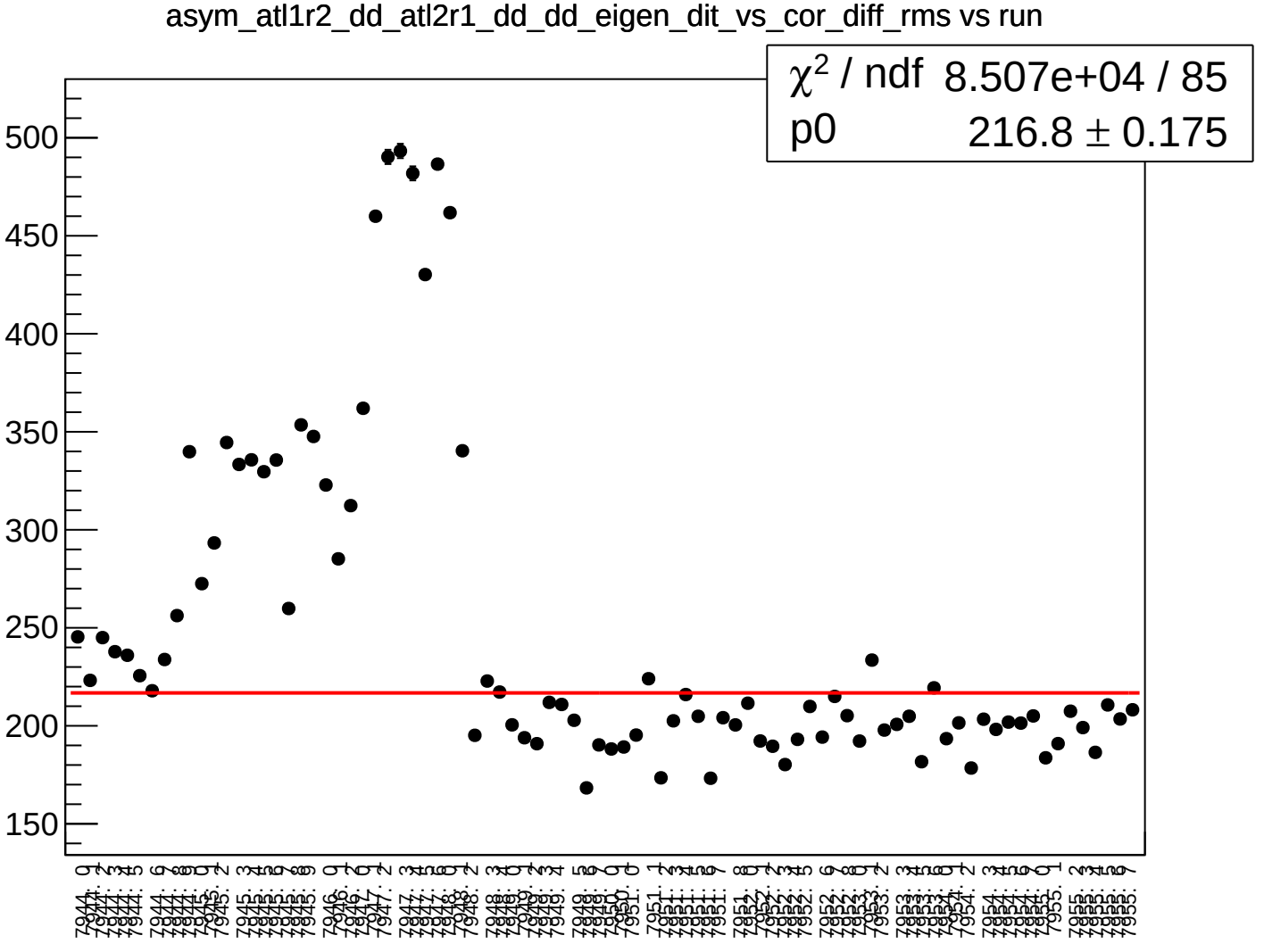

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 93.49 / 85
p0 2.118e−06 ± 1.055e−05
pull
Entries 86
Mean 88.76
Std Dev 0

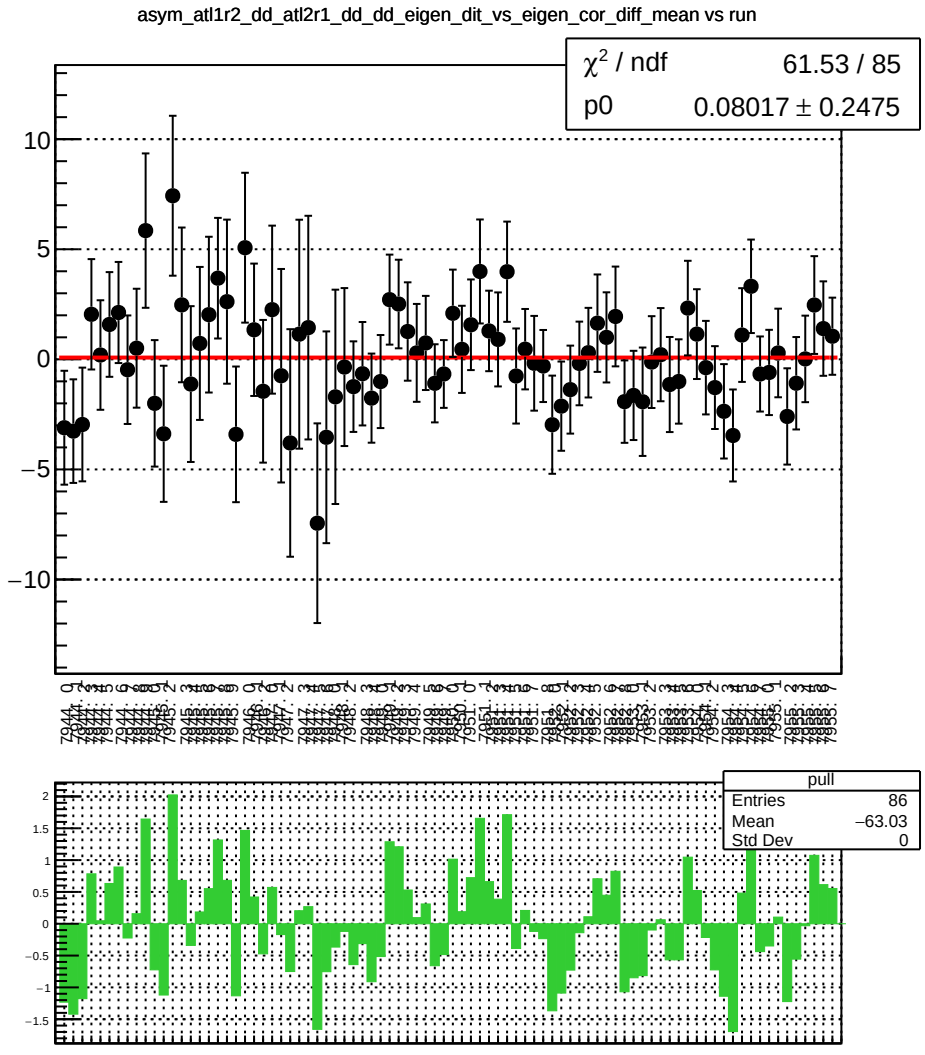

pull1D
Entries 86
Mean −0.003217
Std Dev 1.043

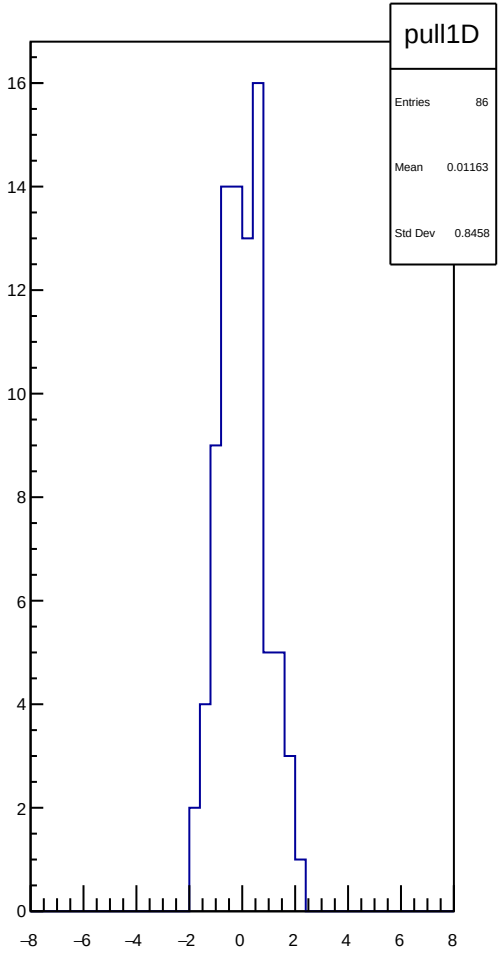

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1098 / 85
p0 0.009492 ± 7.462e−06
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088

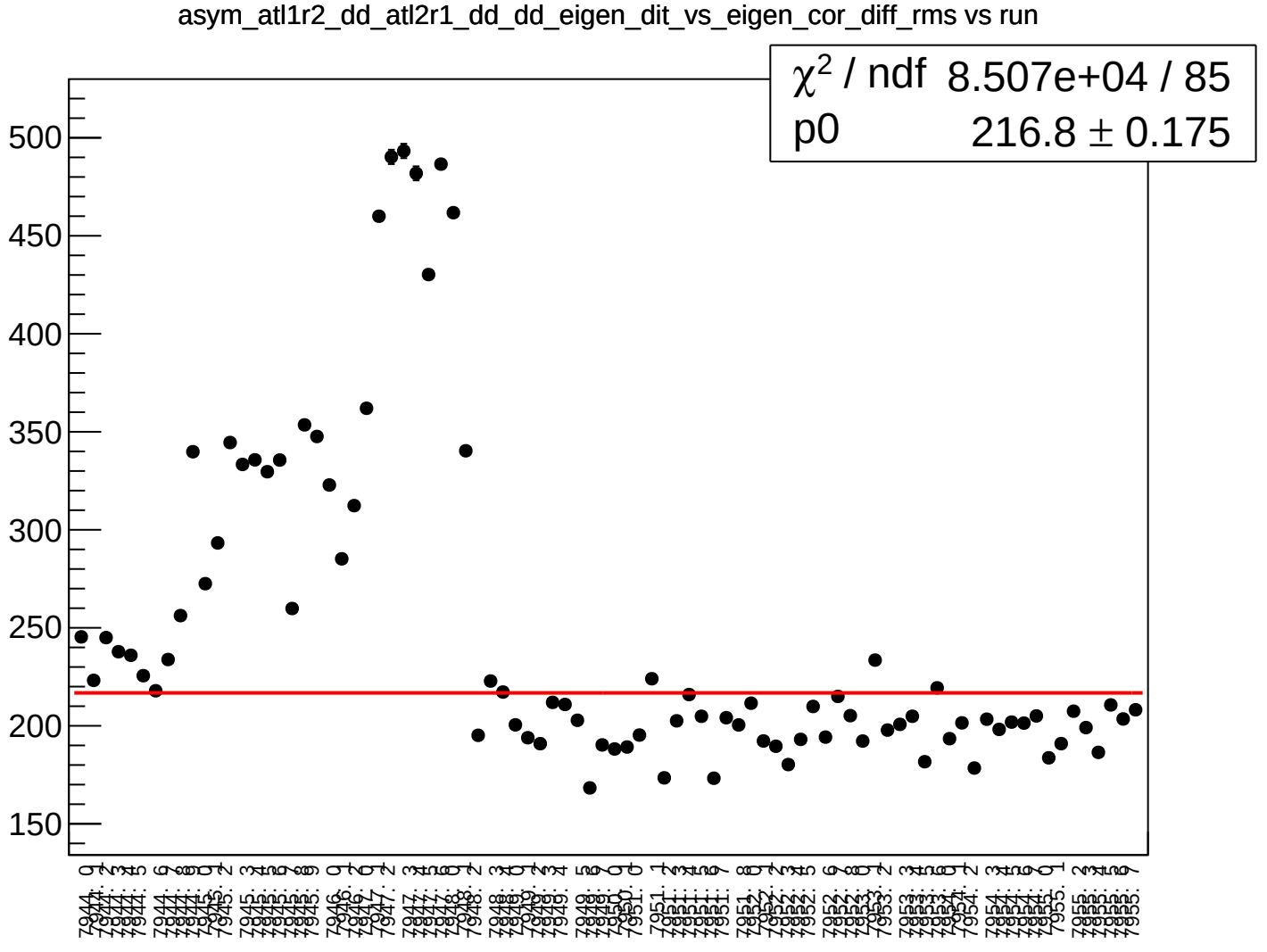

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08017 ± 0.2475
pull
Entries 86
Mean −63.03
Std Dev 0

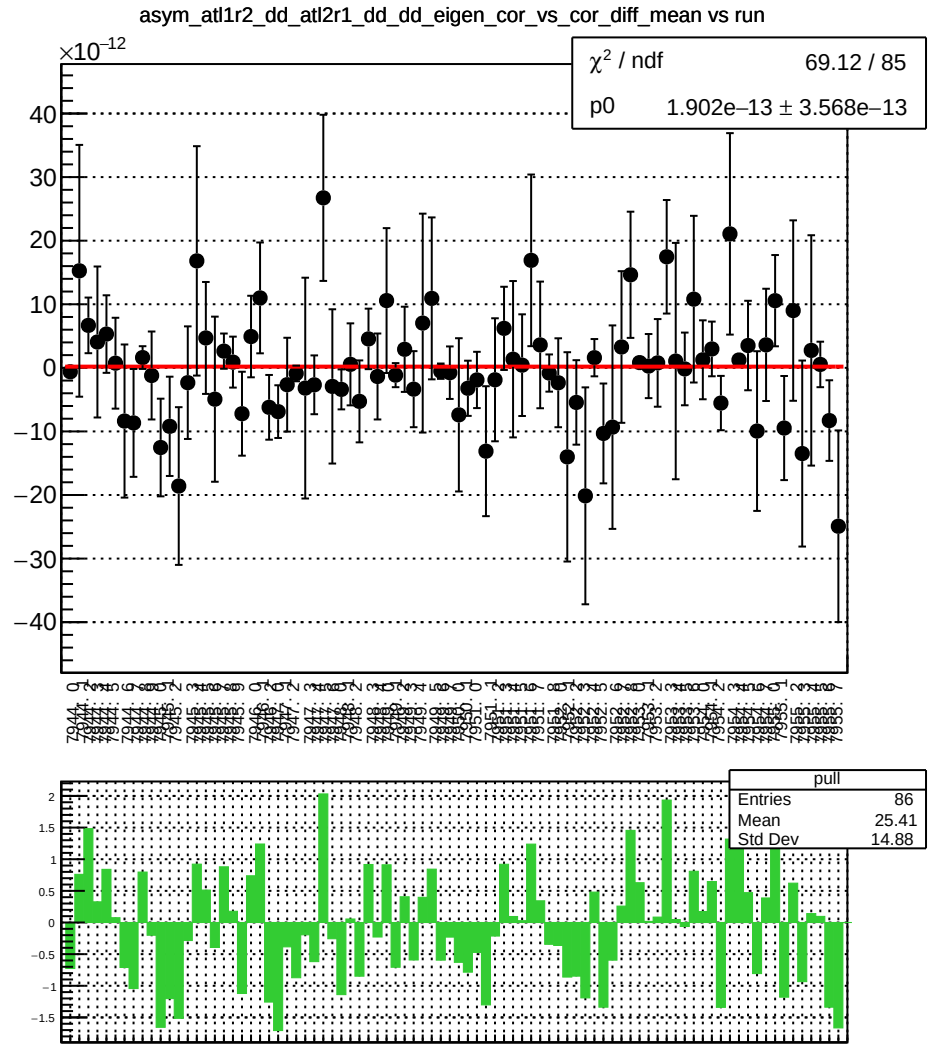

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

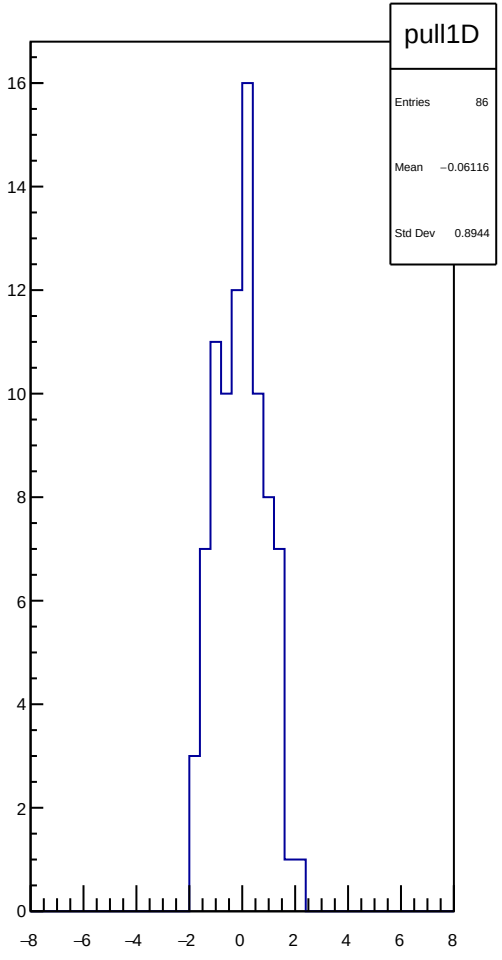

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

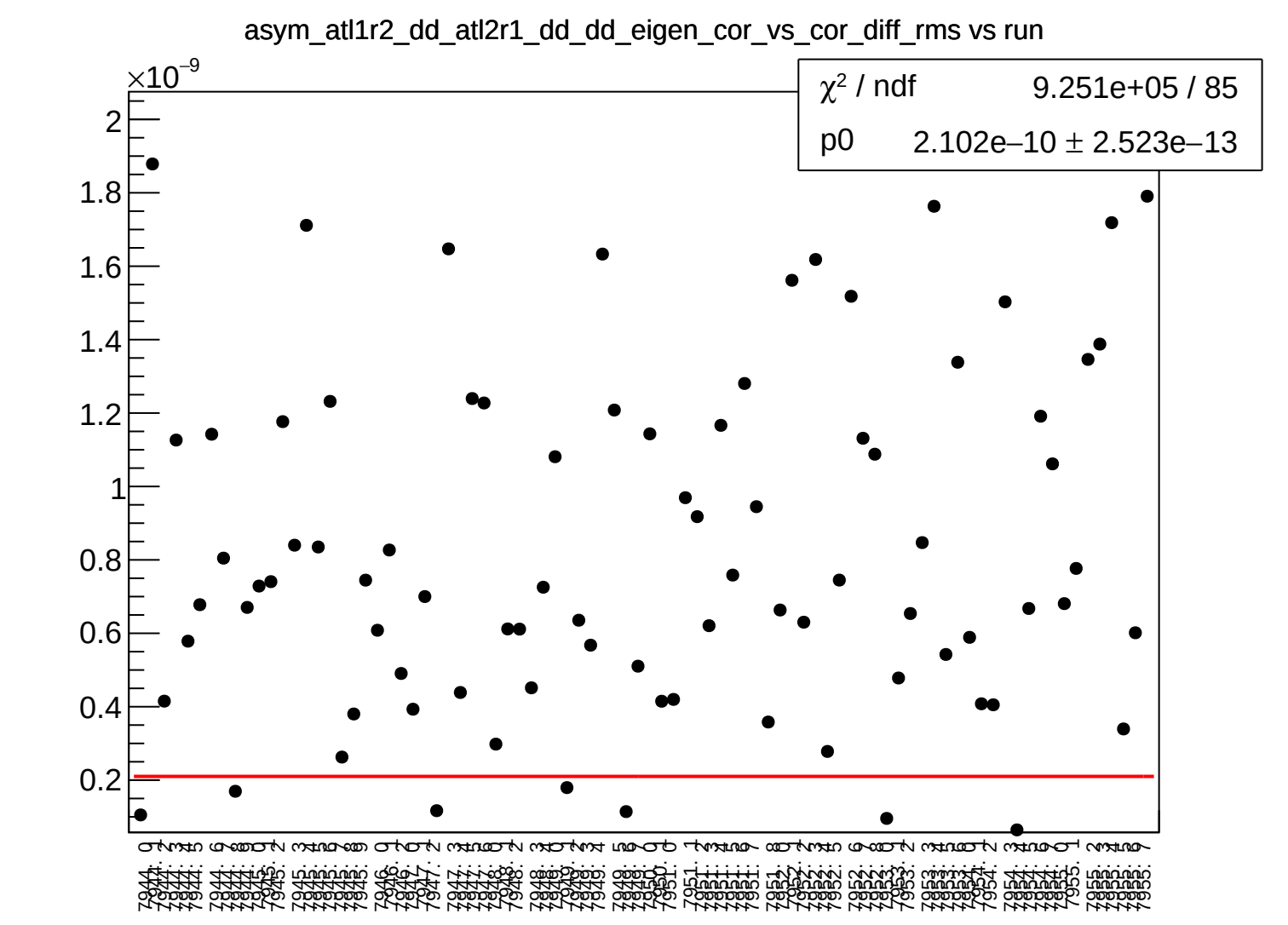

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.53 / 85
p0 0.08017 ± 0.2475
pull
Entries 86
Mean −63.03
Std Dev 0

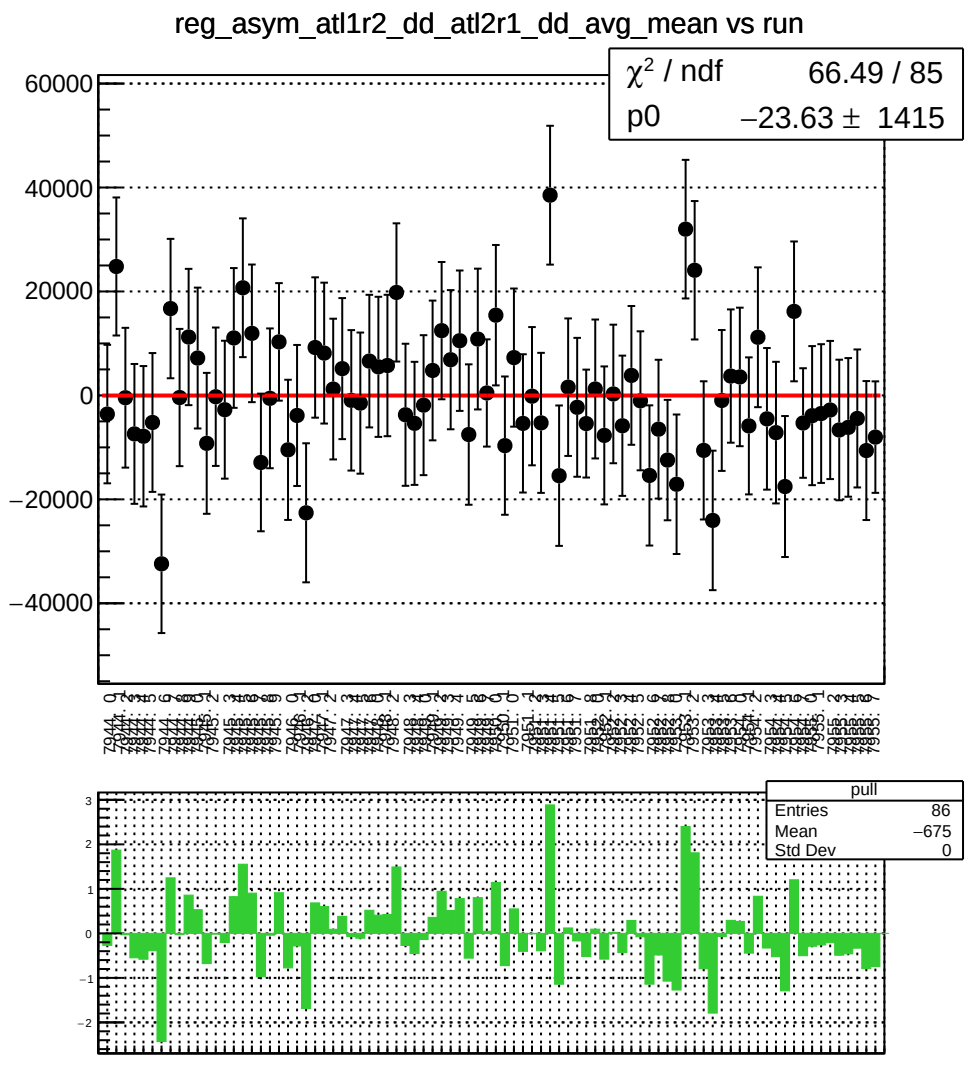

pull1D
Entries 86
Mean 0.01163
Std Dev 0.8458

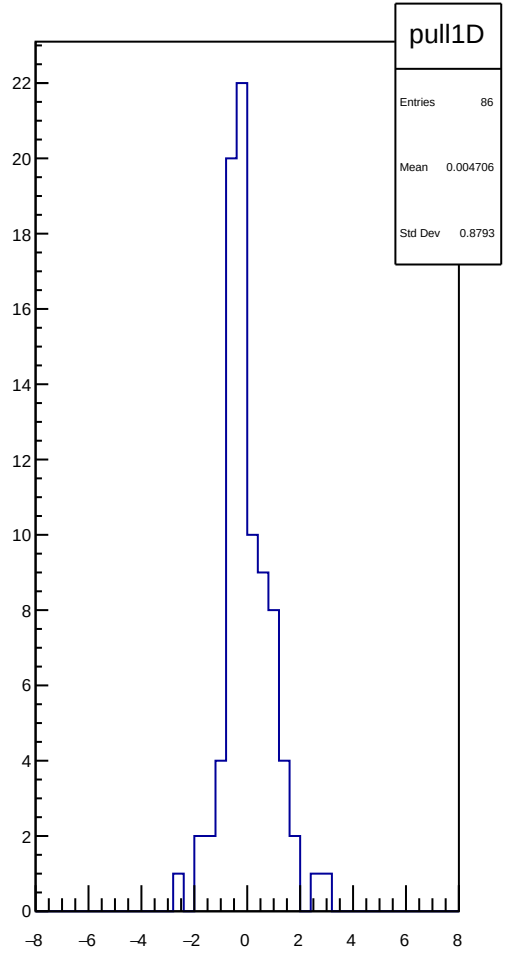

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.507e+04 / 85
p0 216.8 ± 0.175
500
450
400
350
300
250
200
150

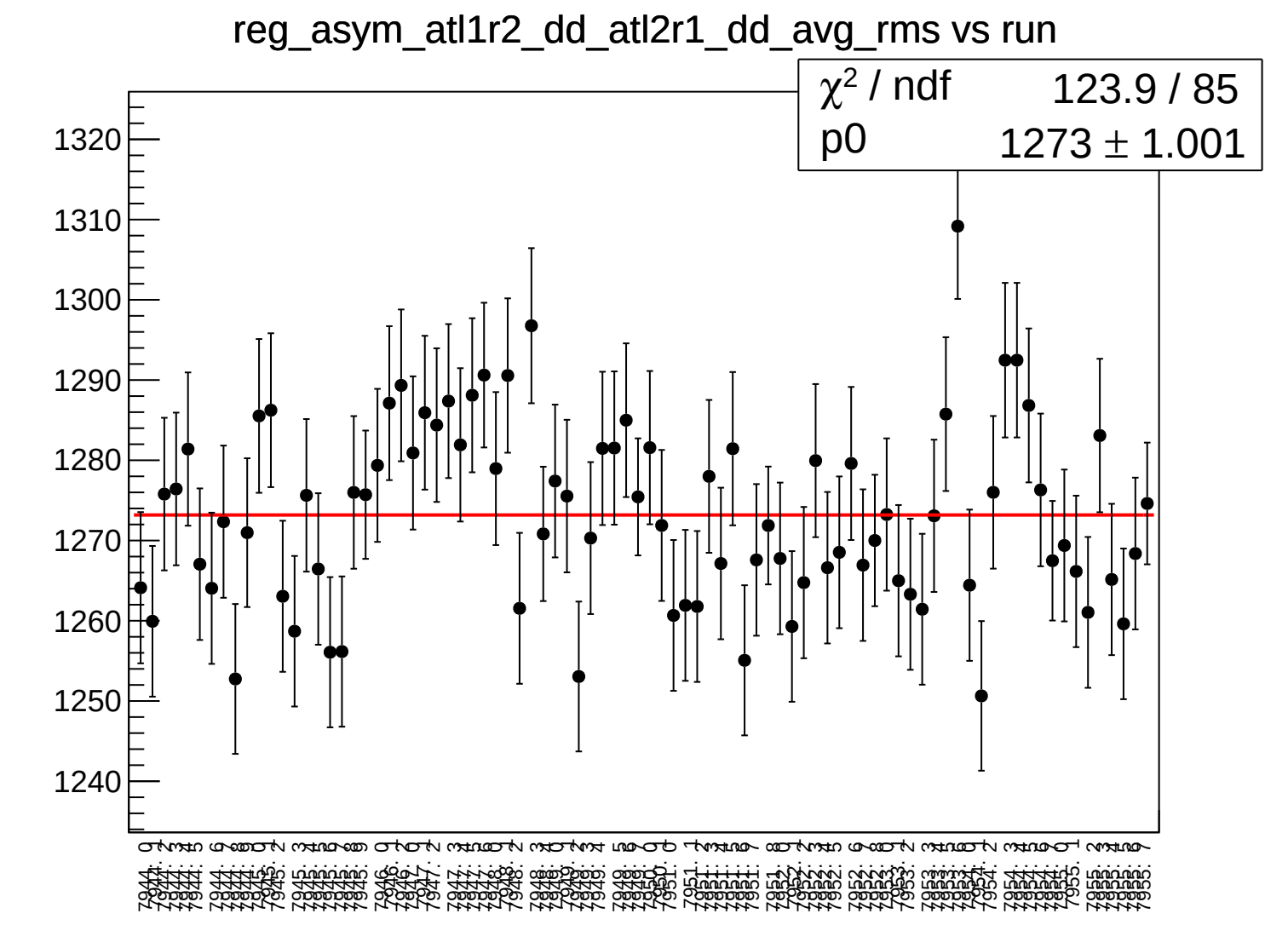

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.12 / 85
p0 1.902e−13 ± 3.568e−13
pull
Entries 86
Mean 25.41
Std Dev 14.88

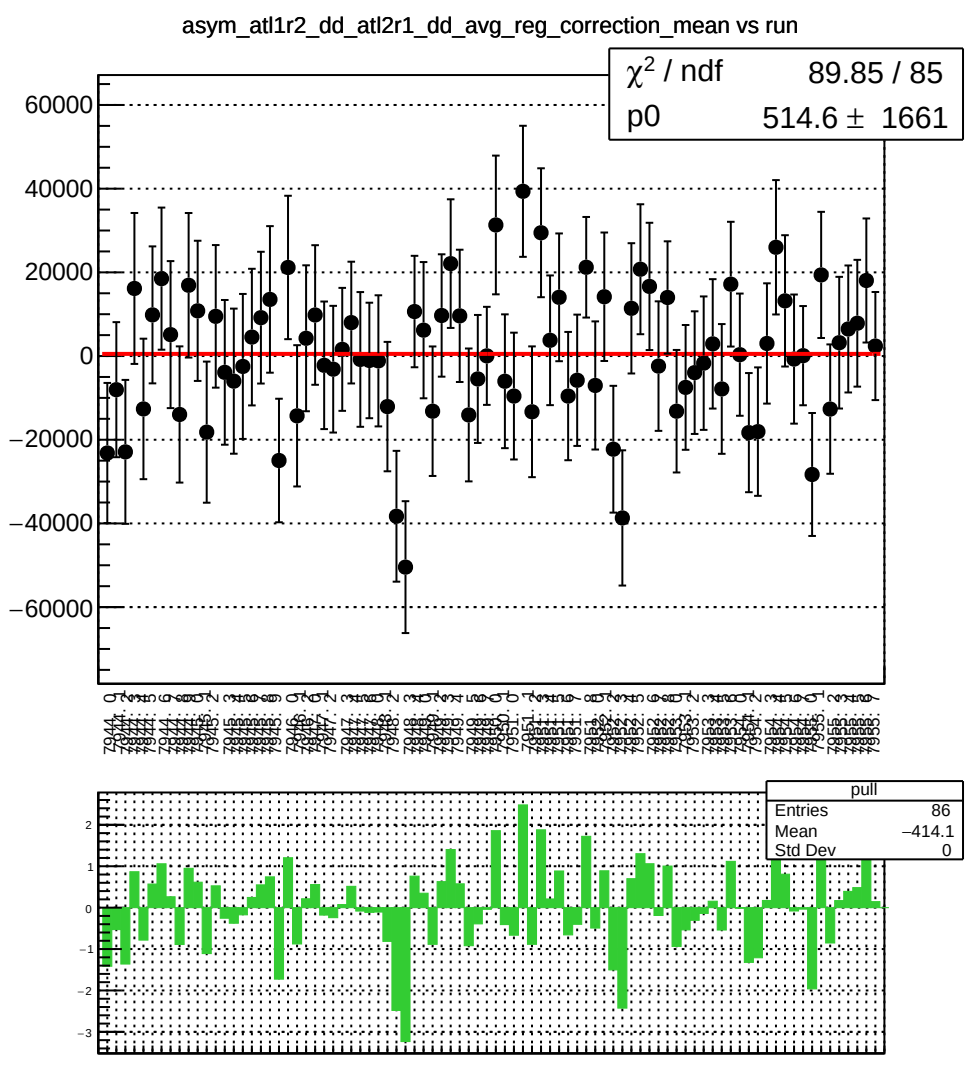

pull1D
Entries 86
Mean −0.06116
Std Dev 0.8944

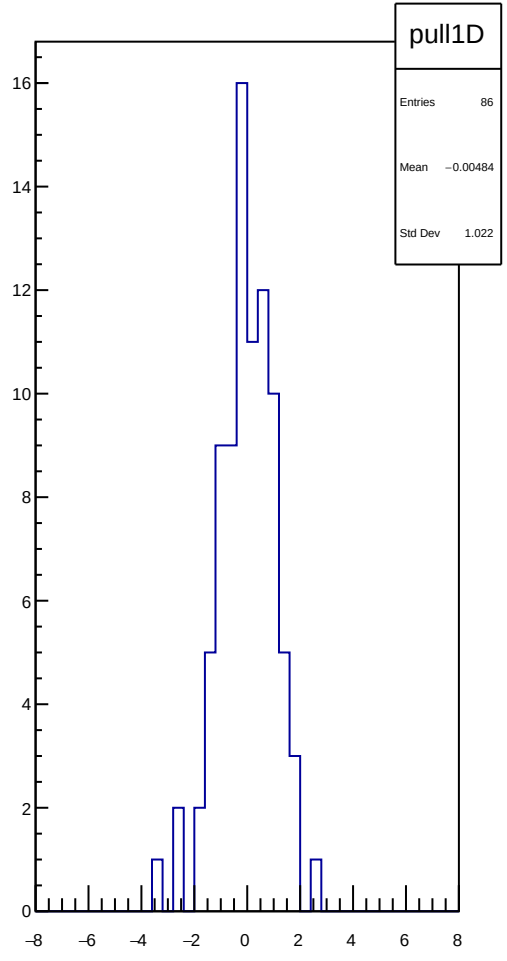

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.251e+05 / 85
p0 2.102e−10 ± 2.523e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

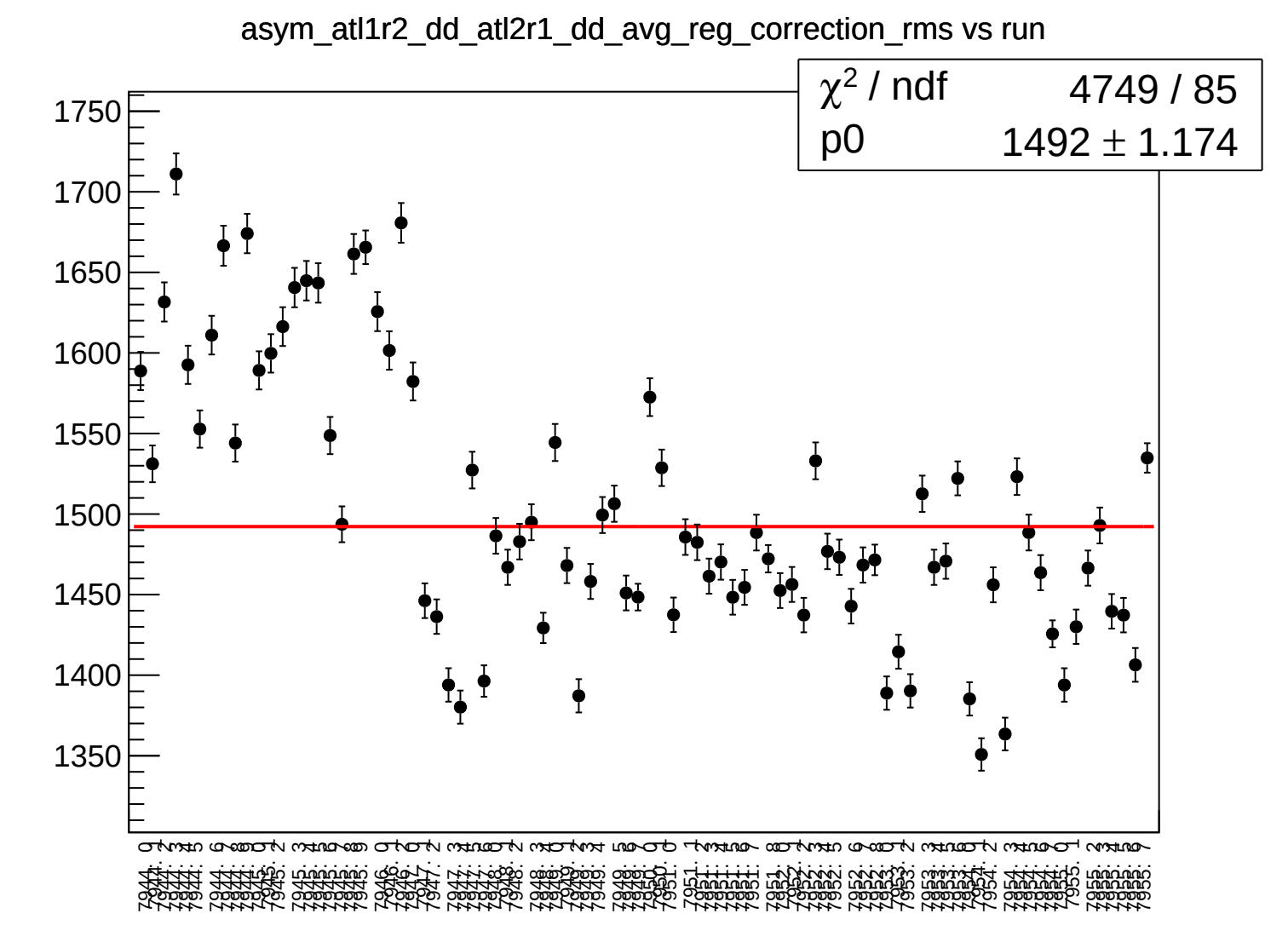

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 66.49 / 85
p0 −23.63 ± 1415
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −675
Std Dev 0
3
2
1
0
−1
−2

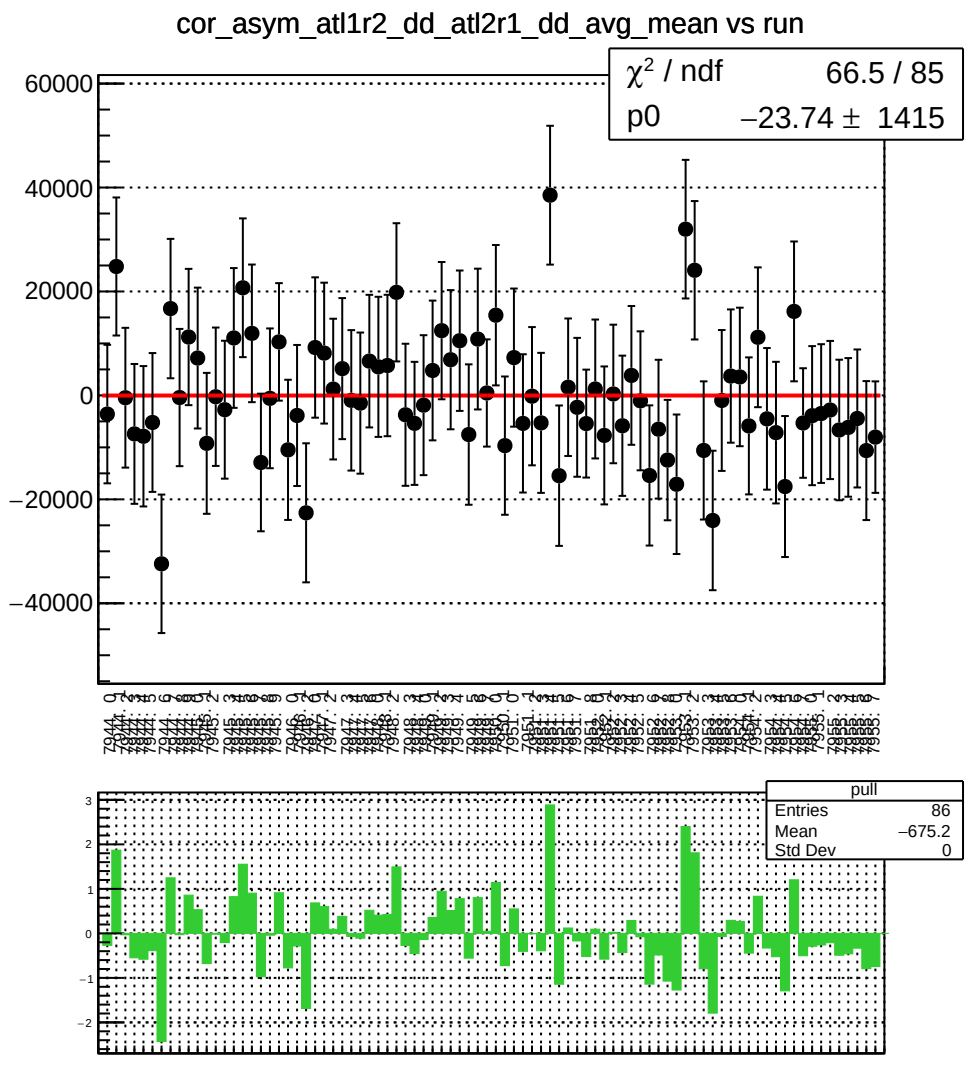

pull1D
Entries 86
Mean 0.004706
Std Dev 0.8793
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

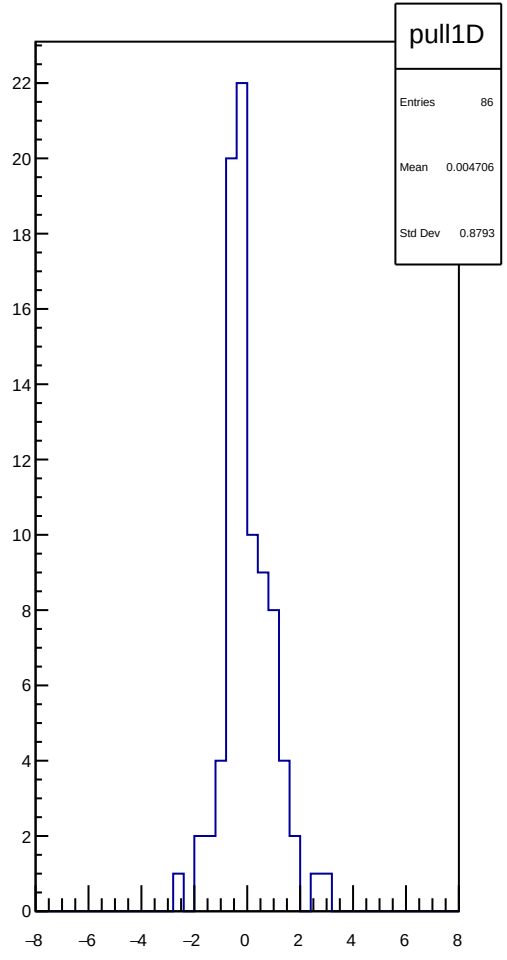

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 123.9 / 85
p0 1273 ± 1.001
1320
1310
1300
1290
1280
1270
1260
1250
1240

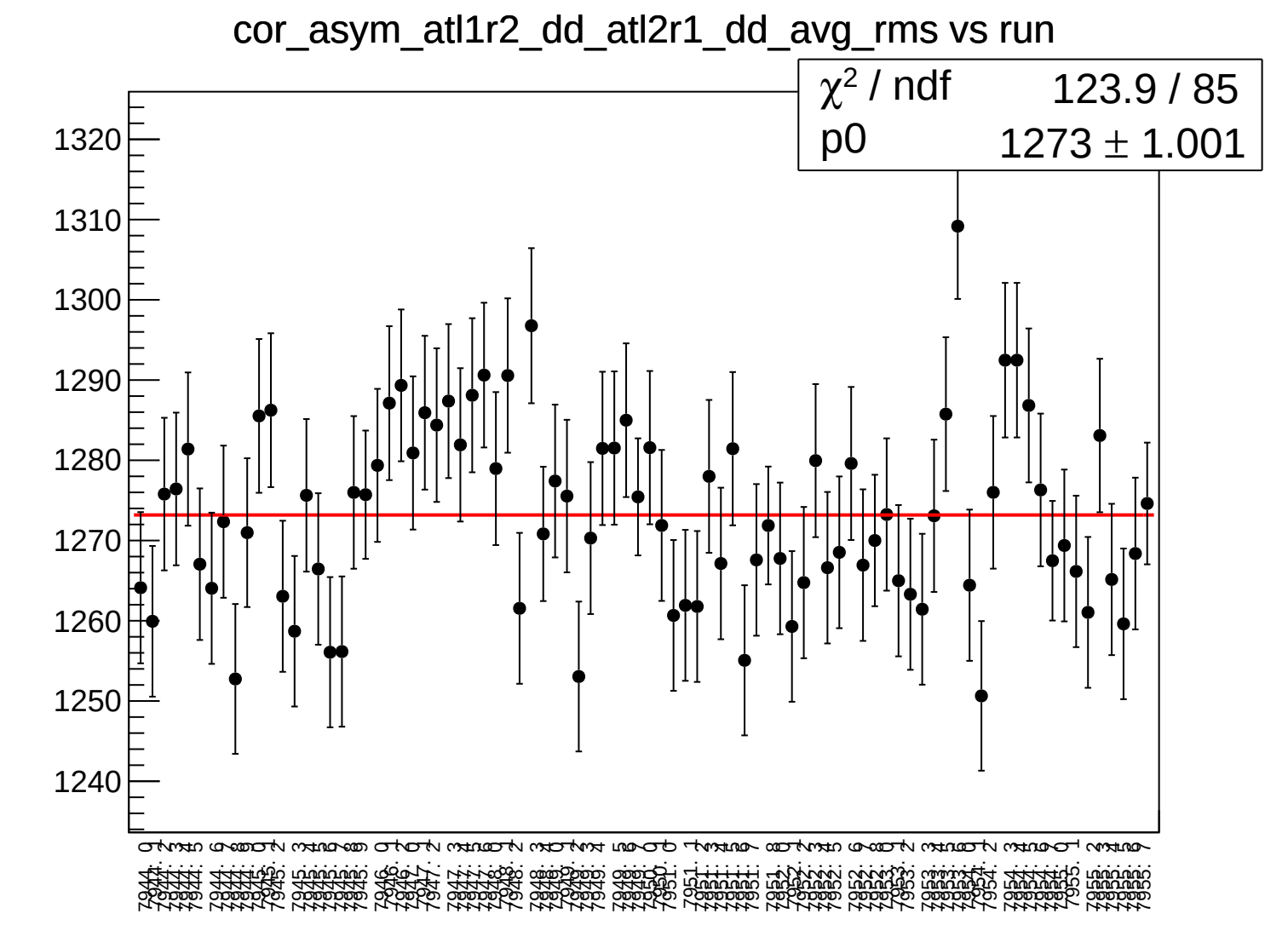

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 89.85 / 85
p0 514.6 ± 1661
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −414.1
Std Dev 0
2
1
0
−1
−2
−3

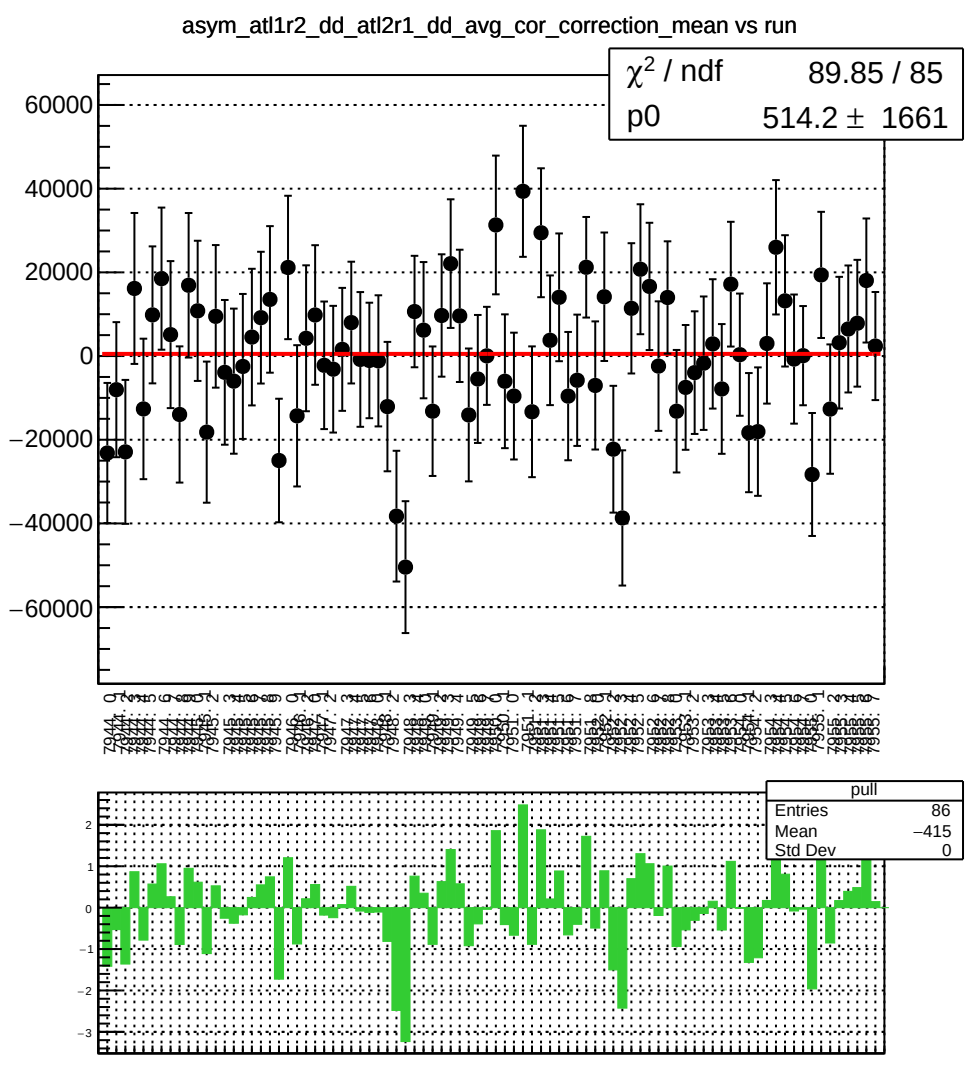

pull1D
Entries 86
Mean −0.00484
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

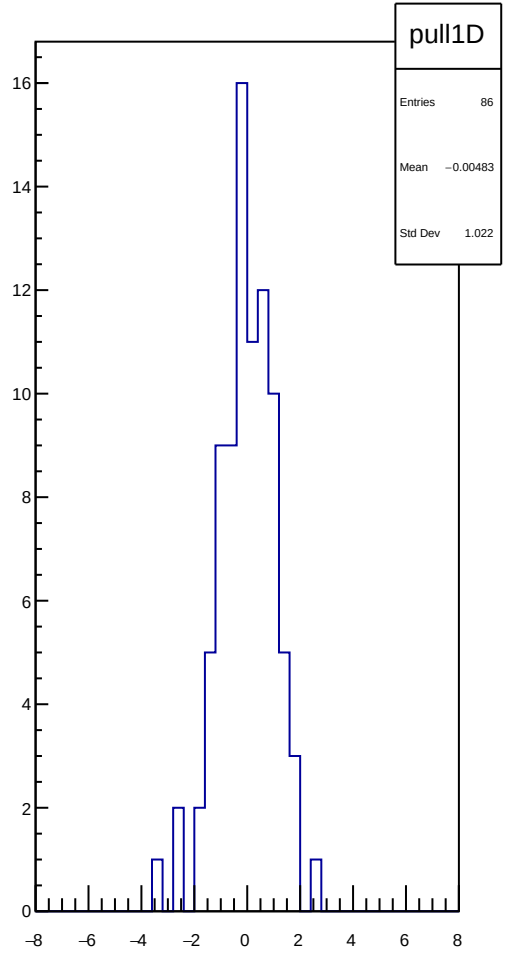

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 4749 / 85
p0 1492 ± 1.174
1750
1700
1650
1600
1550
1500
1450
1400
1350

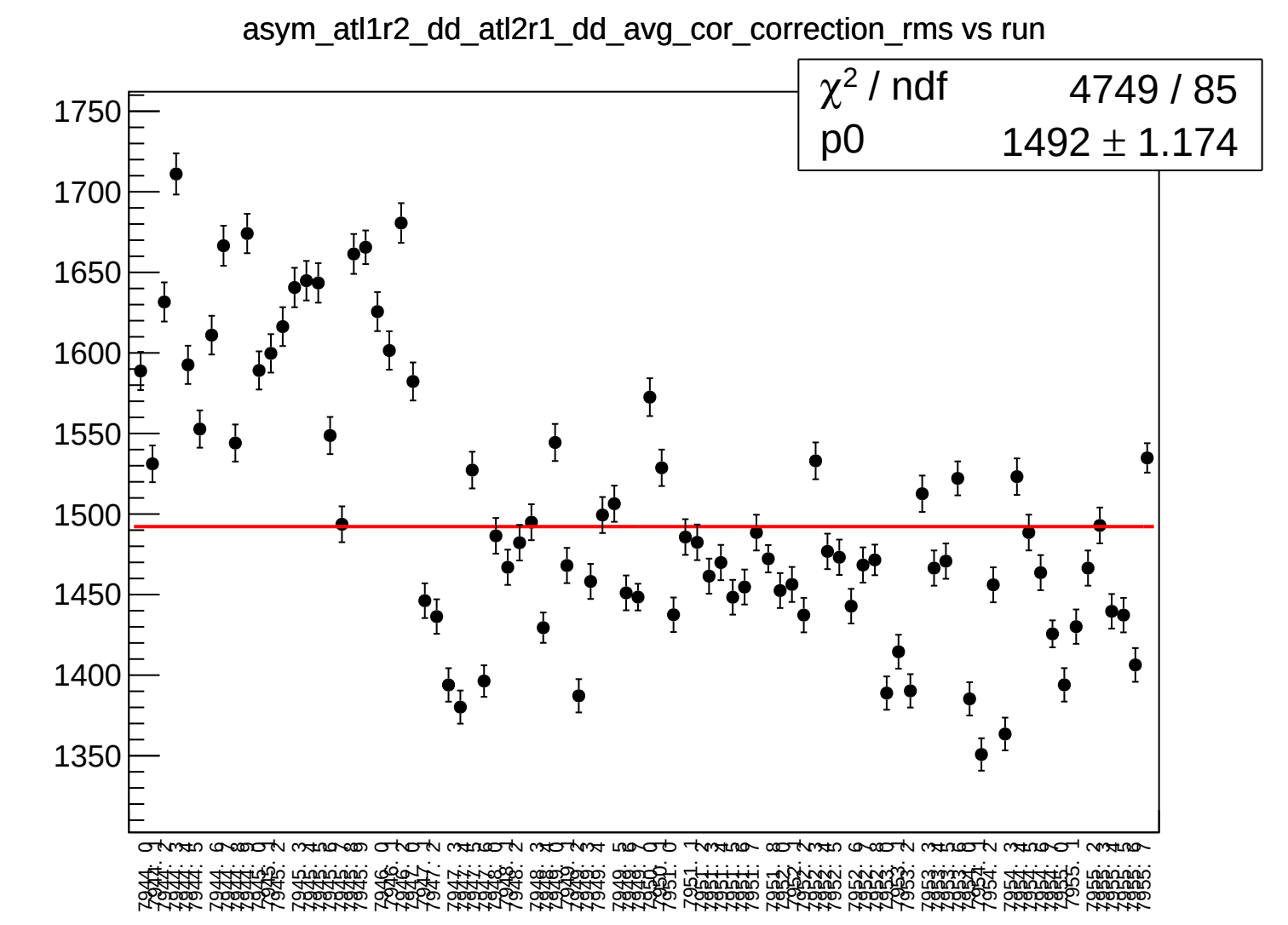

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 66.5 / 85
p0 −23.74 ± 1415
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −675.2
Std Dev 0
3
2
1
0
−1
−2

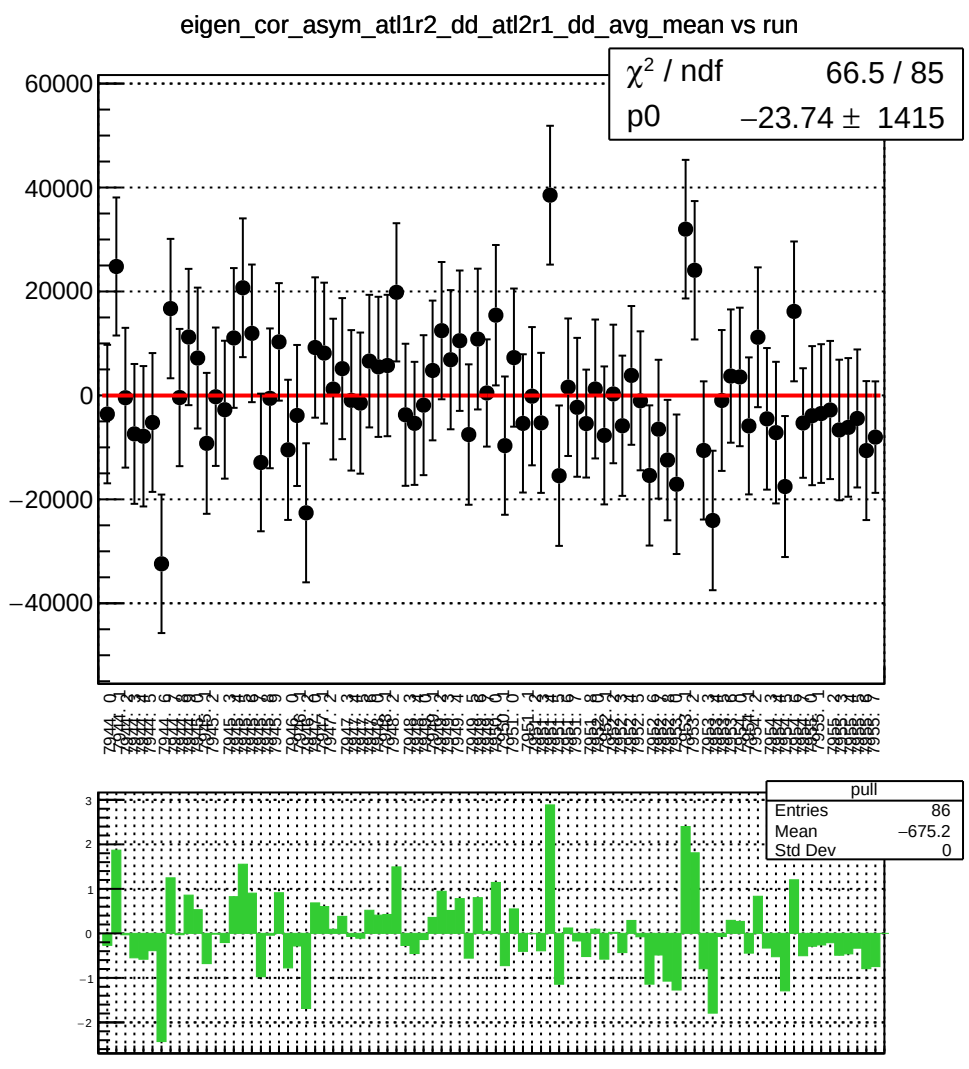

pull1D
Entries 86
Mean 0.004706
Std Dev 0.8793
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

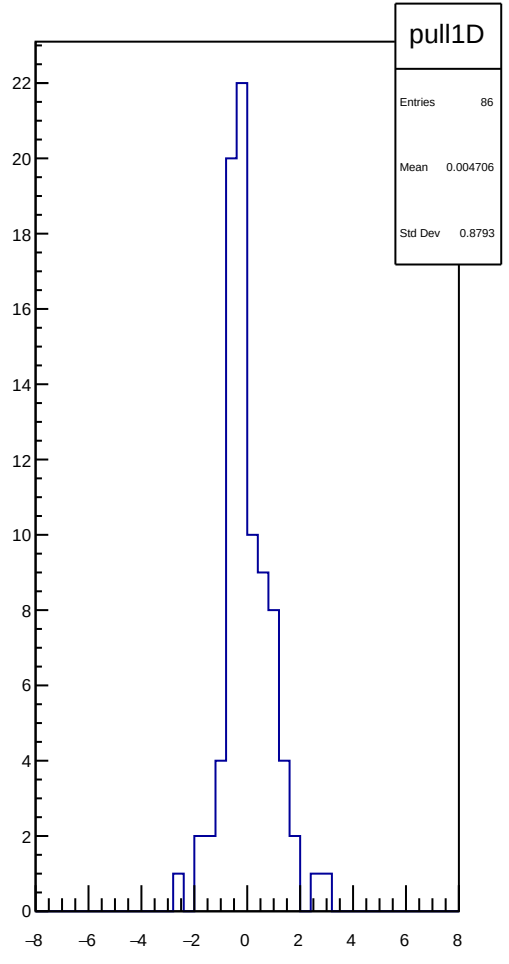

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 123.9 / 85
p0 1273 ± 1.001
1320
1310
1300
1290
1280
1270
1260
1250
1240

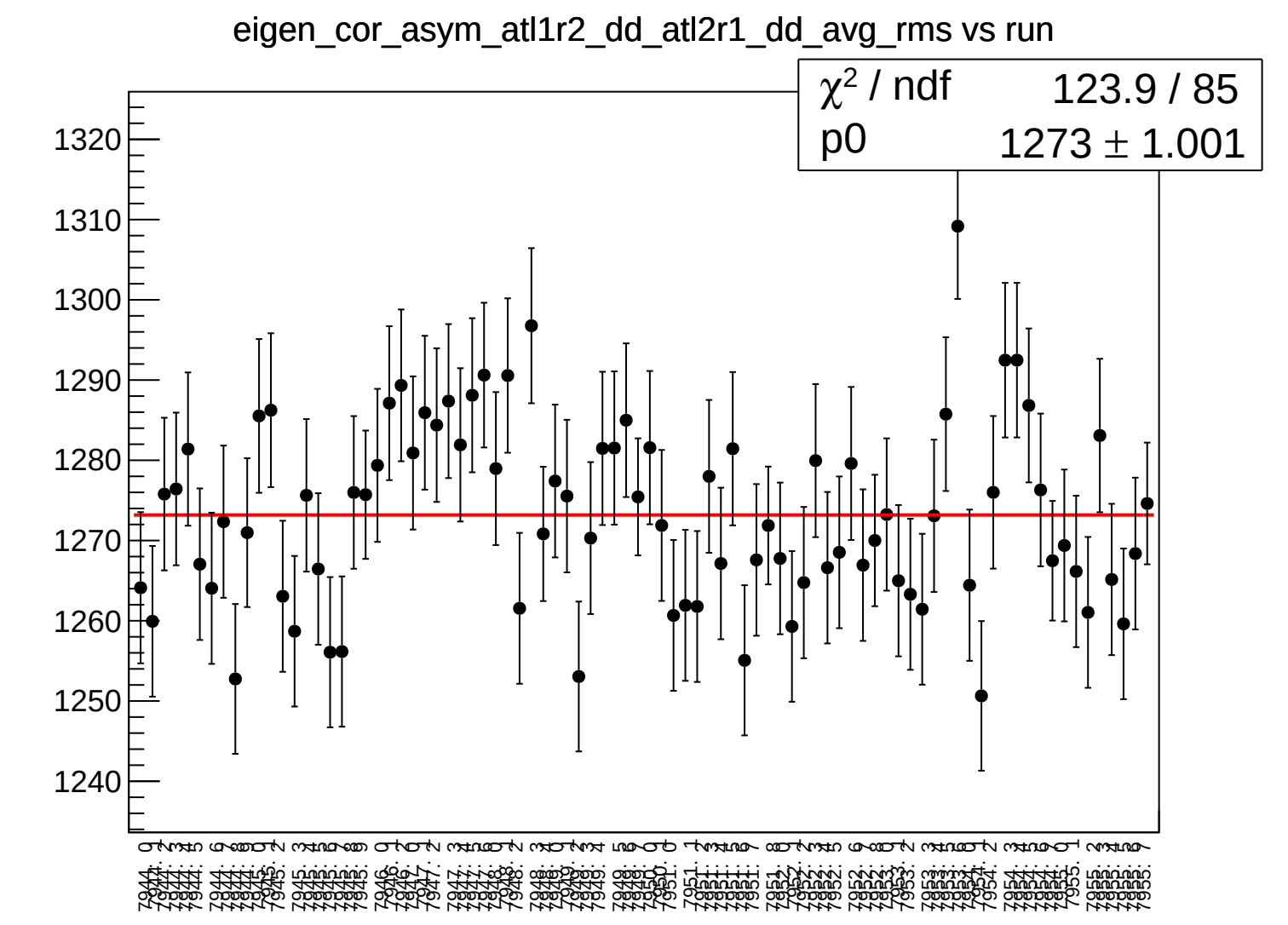

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 89.85 / 85
p0 514.2 ± 1661
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −415
Std Dev 0
2
1
0
−1
−2
−3

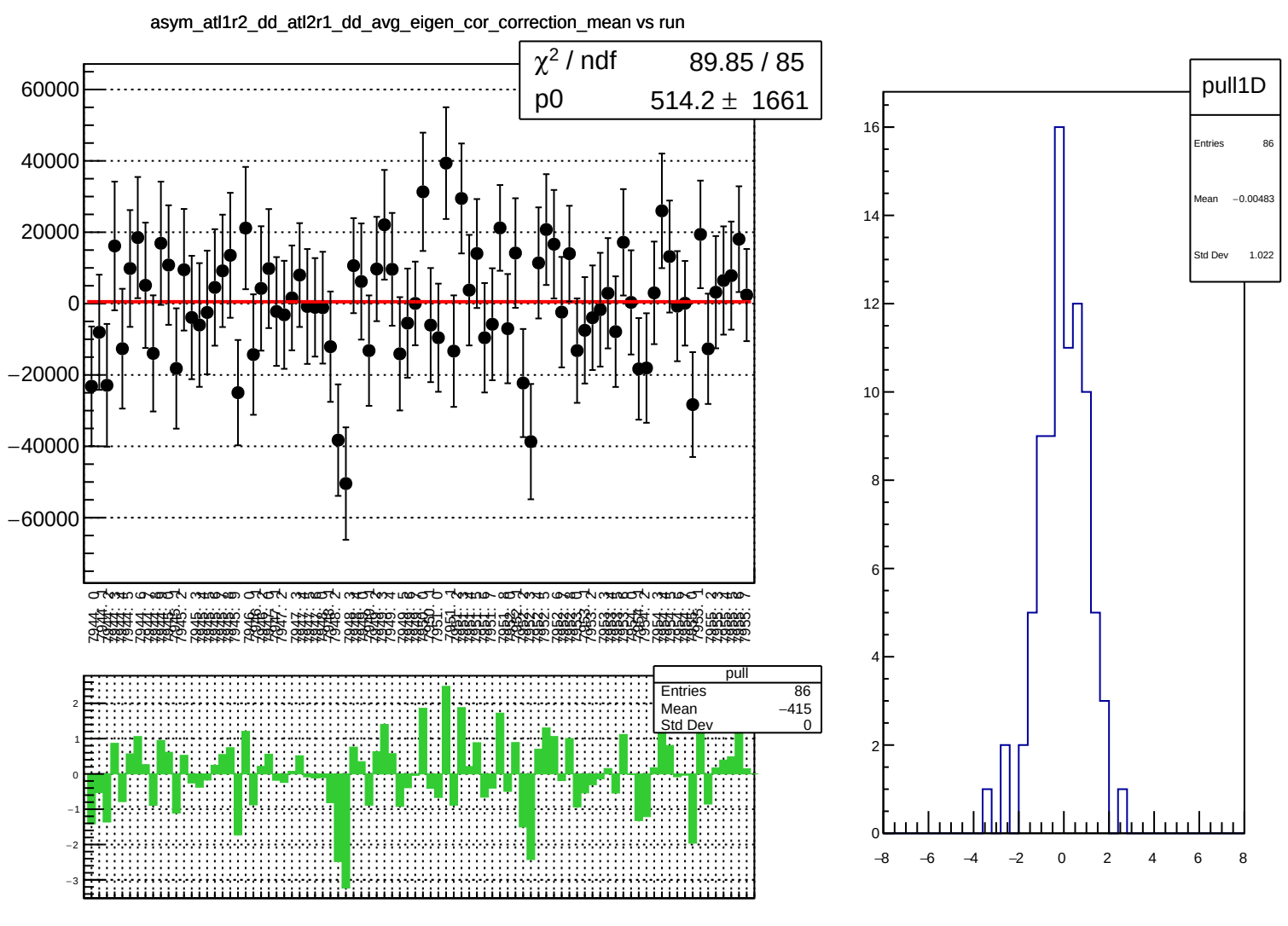

pull1D
Entries 86
Mean −0.00483
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

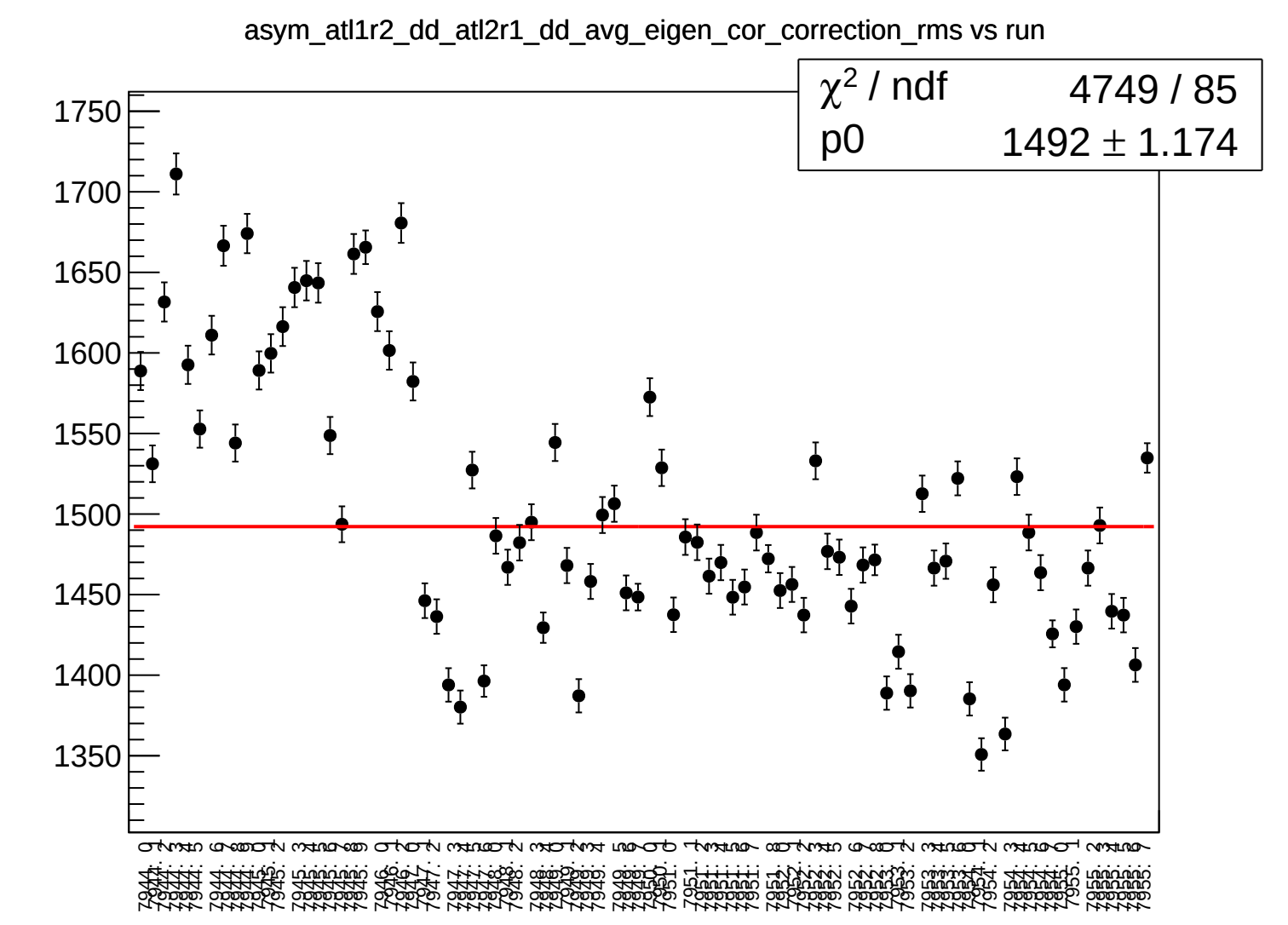

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 4749 / 85
p0 1492 ± 1.174
1750
1700
1650
1600
1550
1500
1450
1400
1350

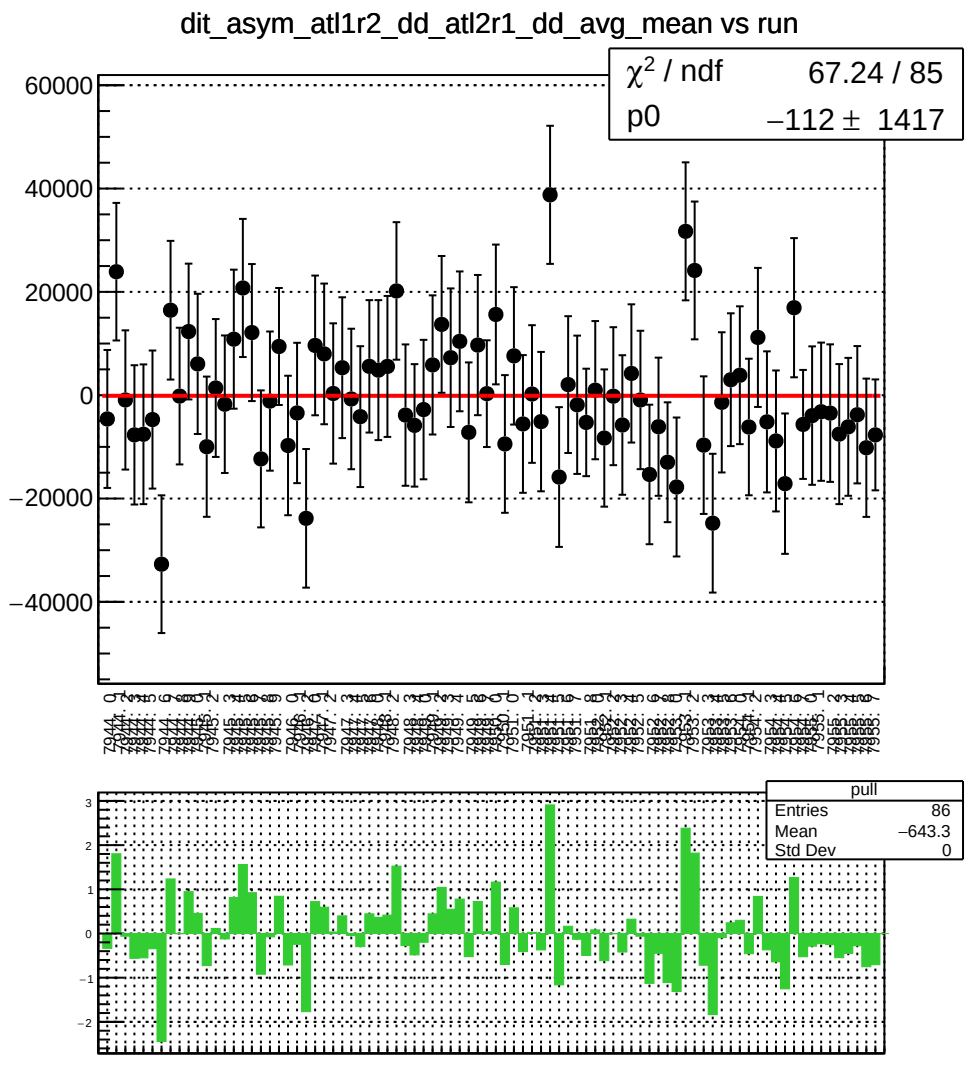

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 66.5 / 85
p0 −23.74 ± 1415
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −675.2
Std Dev 0
3
2
1
0
−1
−2

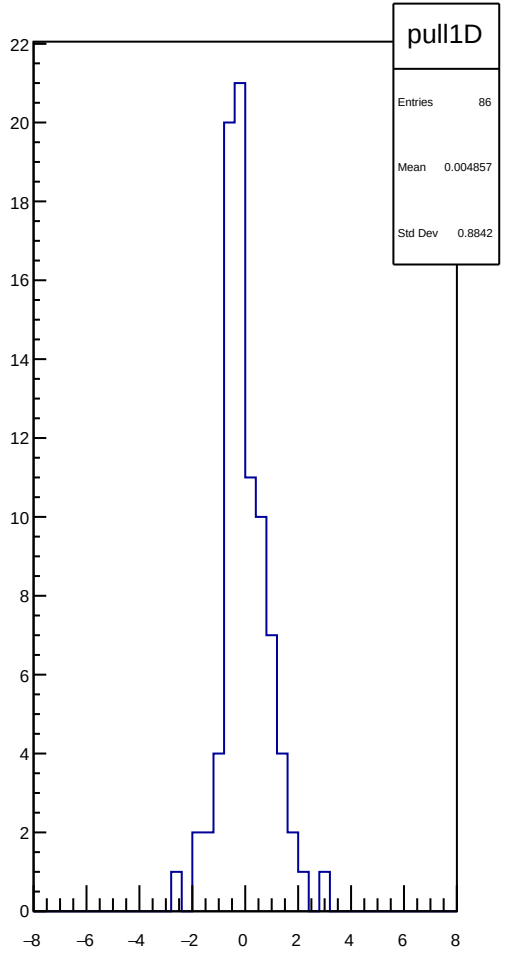

pull1D
Entries 86
Mean 0.004706
Std Dev 0.8793
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

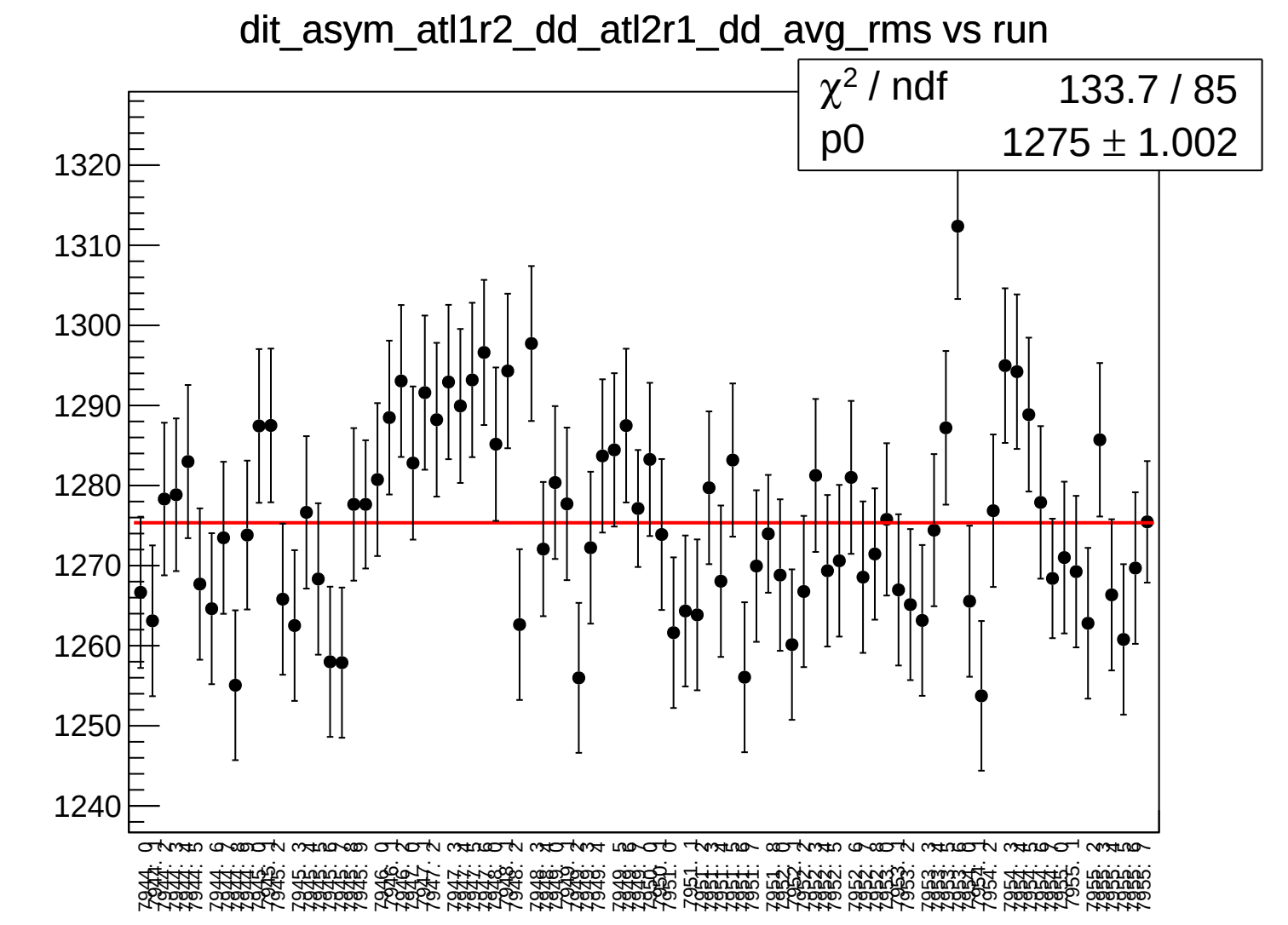

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 123.9 / 85
p0 1273 ± 1.001
1320
1310
1300
1290
1280
1270
1260
1250
1240

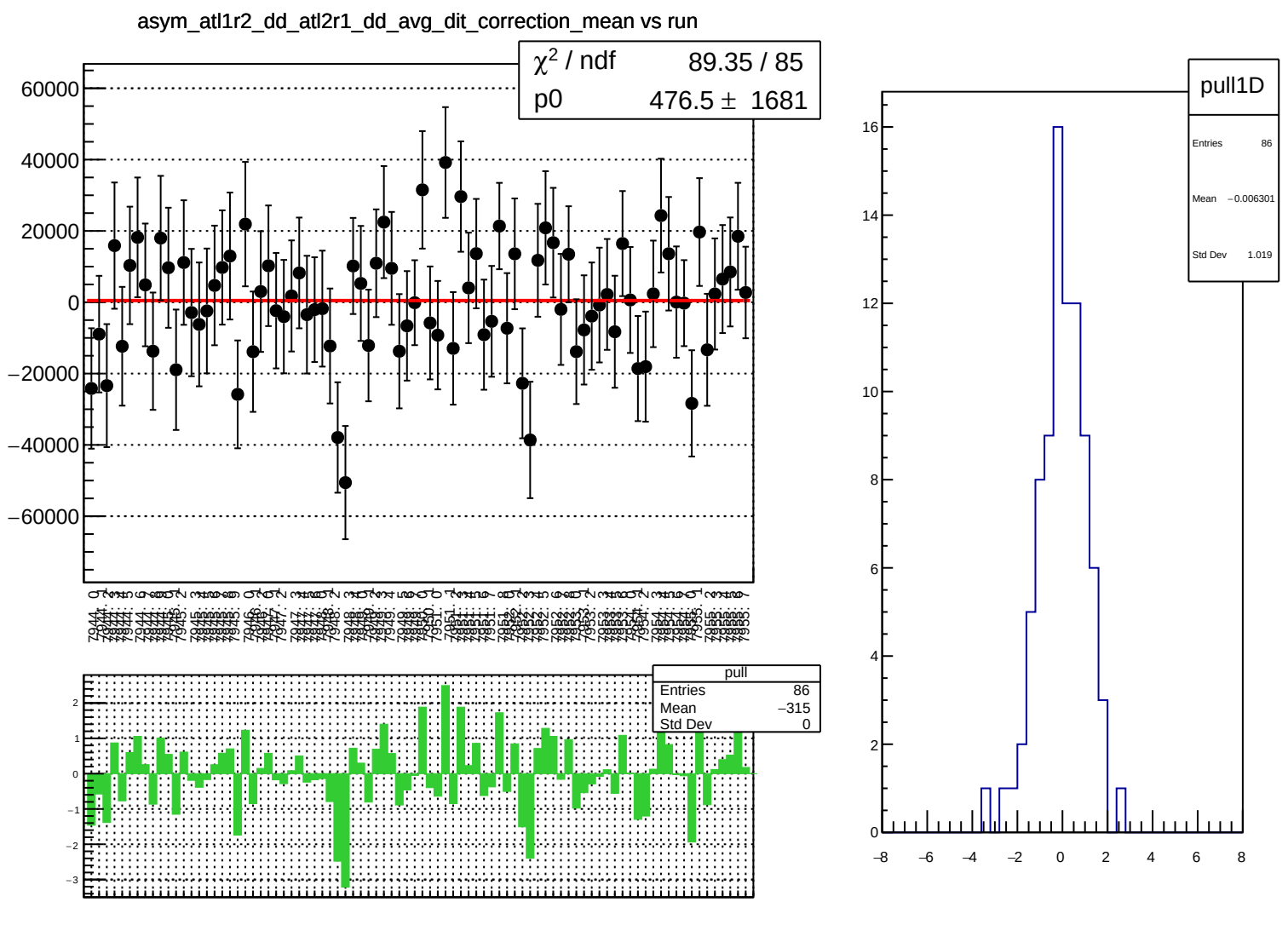

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.85 / 85
p0 514.2 ± 1661
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −415
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.00483
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

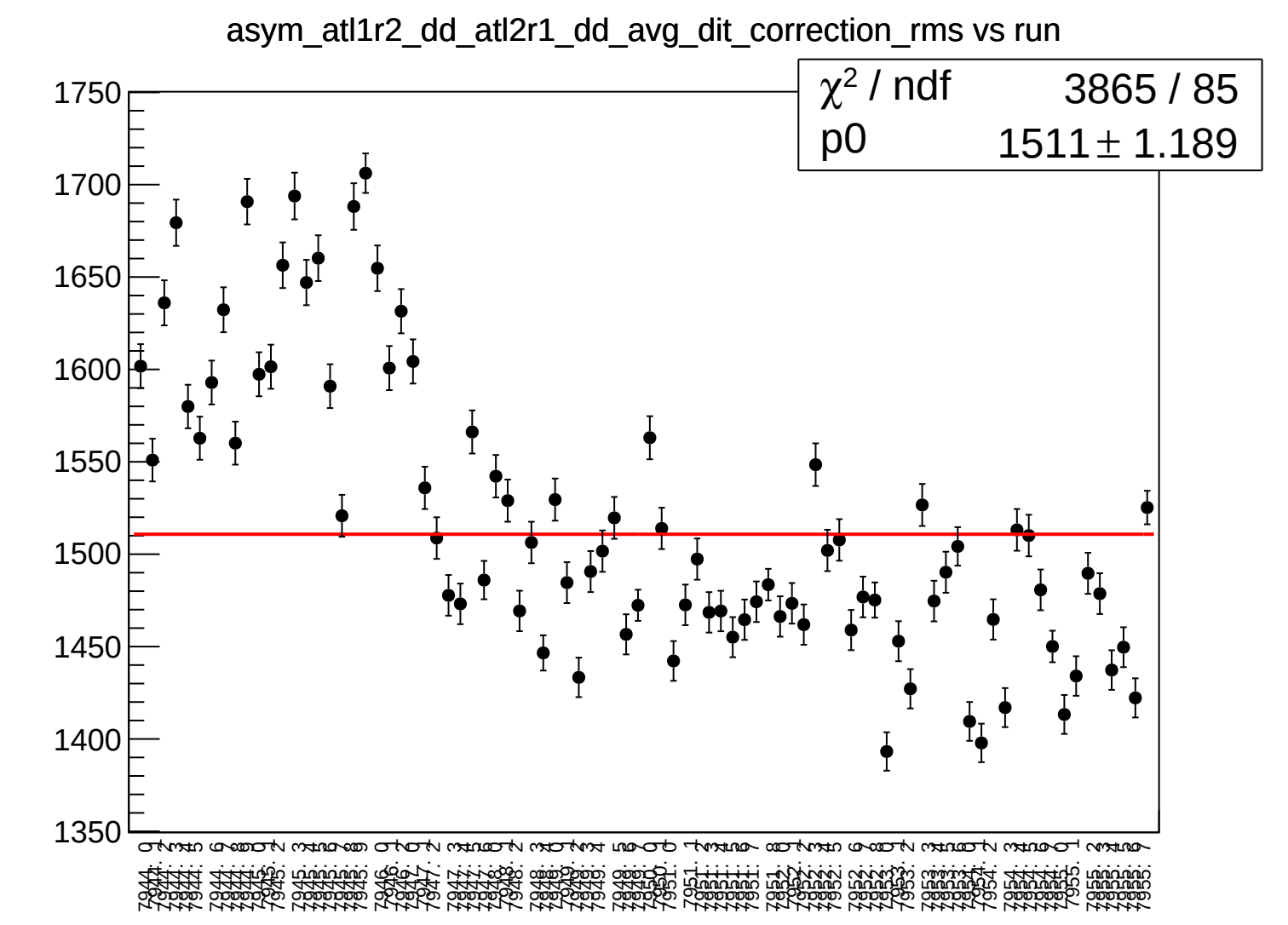

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4749 / 85
p0 1492 ± 1.174
1750
1700
1650
1600
1550
1500
1450
1400
1350

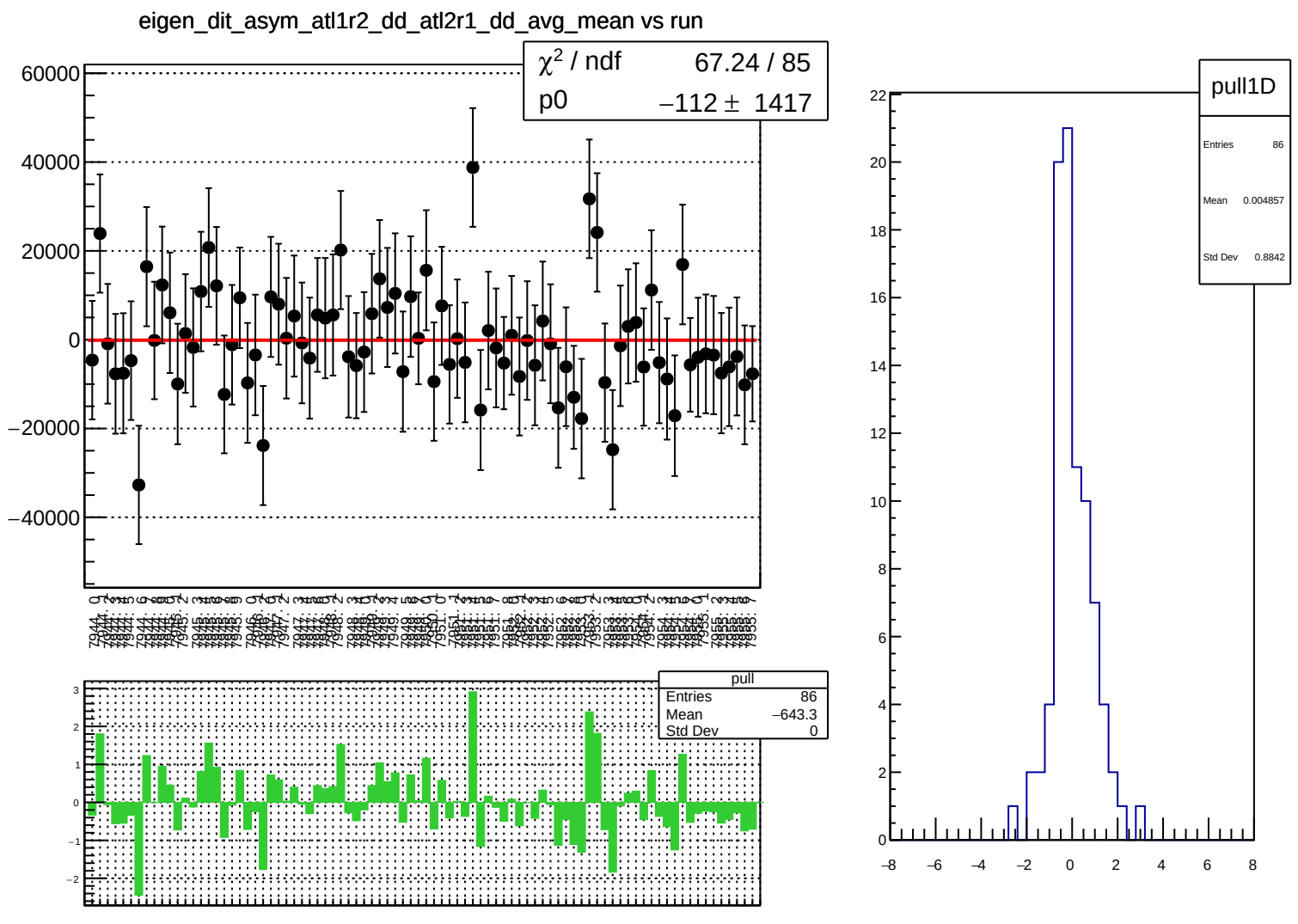

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 67.24 / 85
p0 −112 ± 1417
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −643.3
Std Dev 0
3
2
1
0
−1
−2

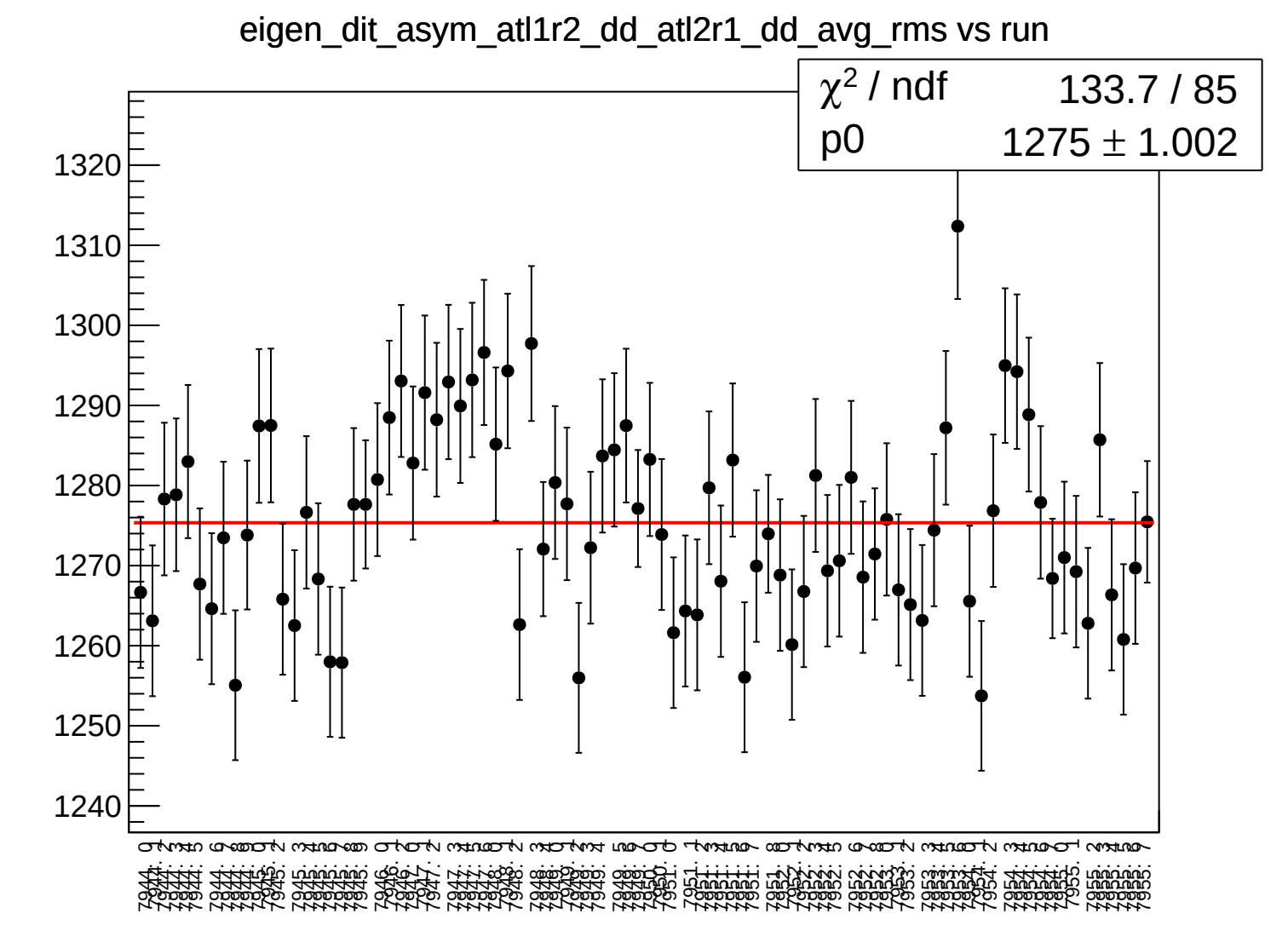

pull1D
Entries 86
Mean 0.004857
Std Dev 0.8842
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

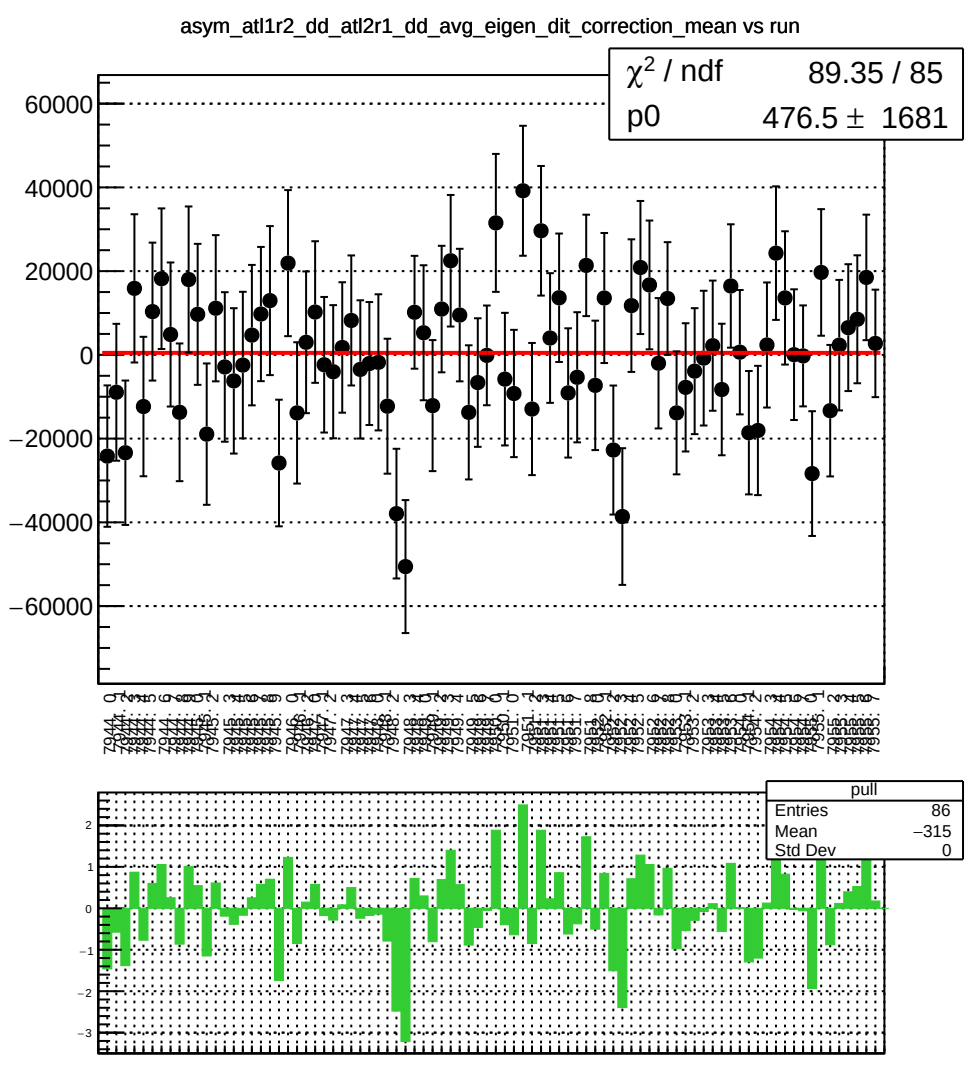

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 133.7 / 85
p0 1275 ± 1.002
1320
1310
1300
1290
1280
1270
1260
1250
1240

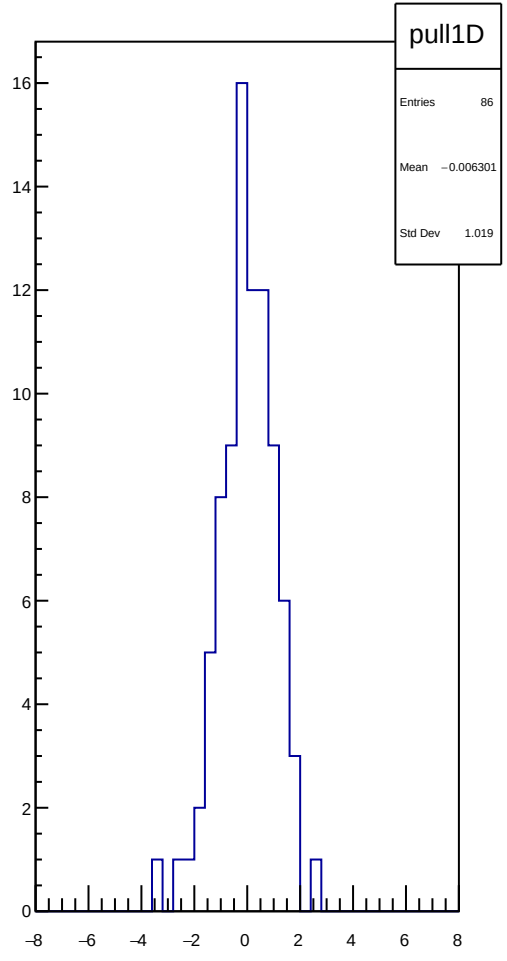

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 89.35 / 85
p0 476.5 ± 1681
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −315
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.006301
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

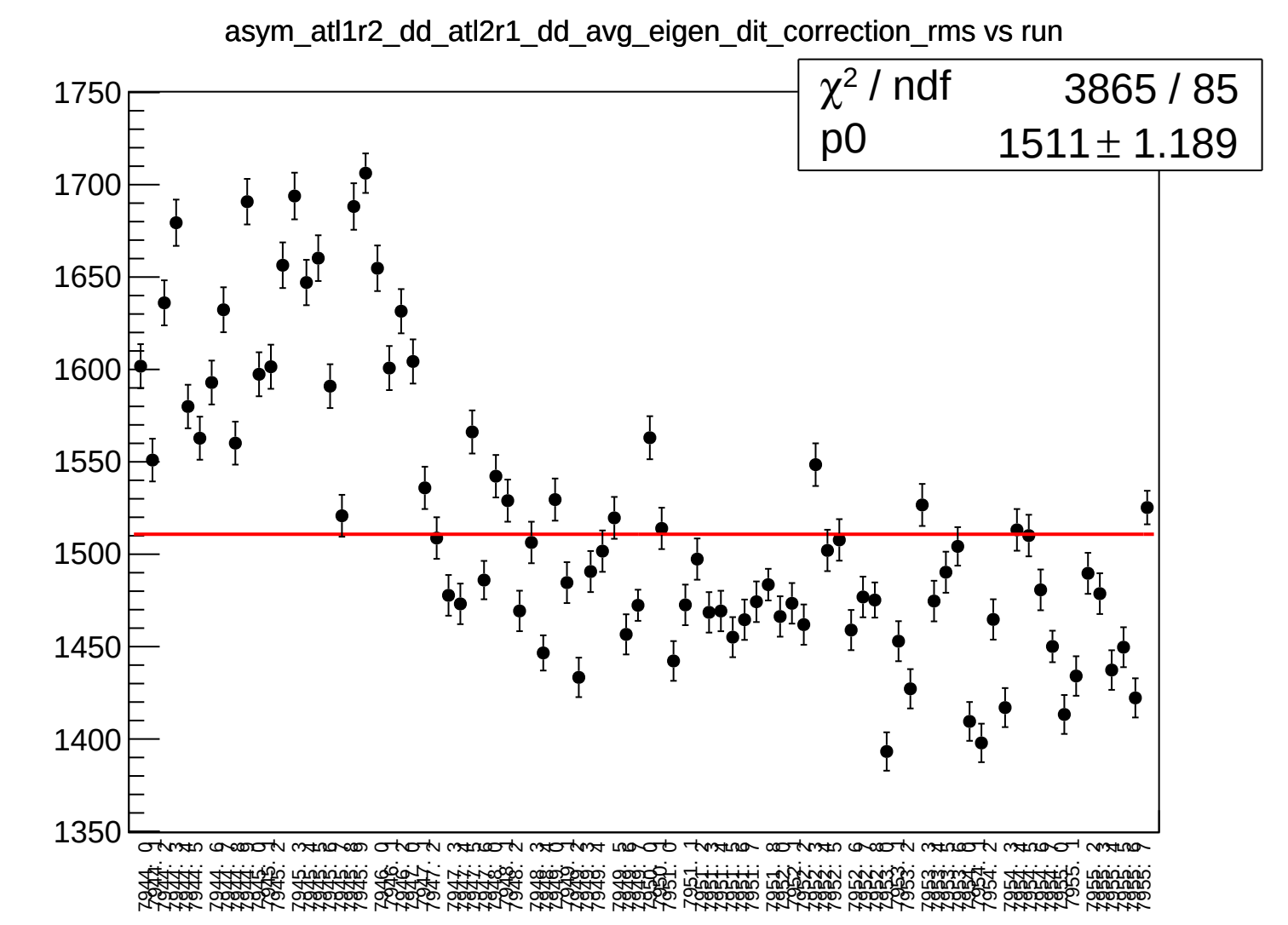

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 3865 / 85
p0 1511 ± 1.189
1750
1700
1650
1600
1550
1500
1450
1400
1350

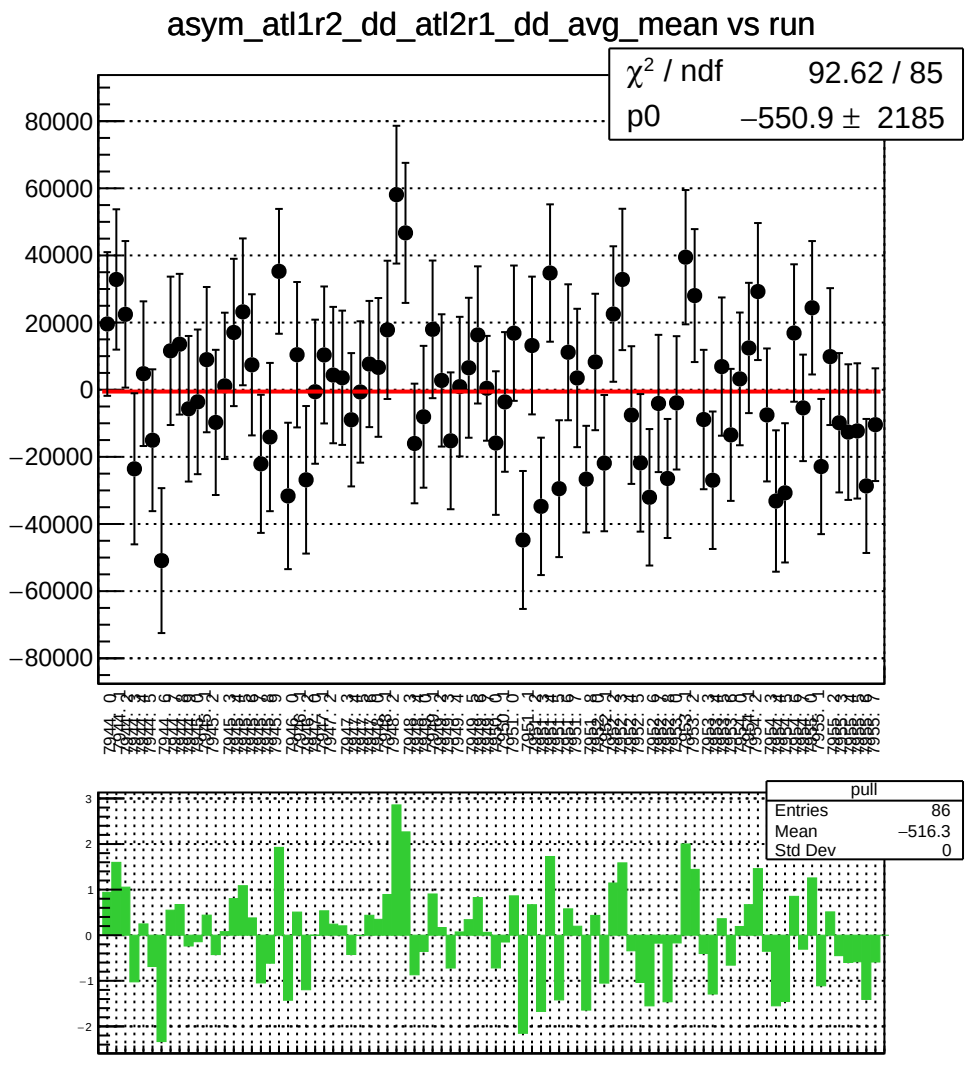

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 67.24 / 85
p0 −112 ± 1417
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −643.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.004857
Std Dev 0.8842
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

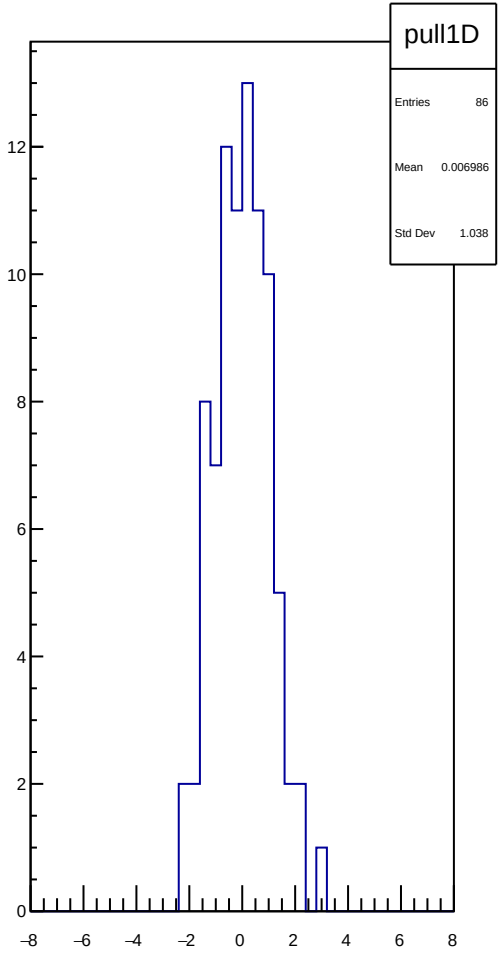

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 133.7 / 85
p0 1275 ± 1.002
1320
1310
1300
1290
1280
1270
1260
1250
1240

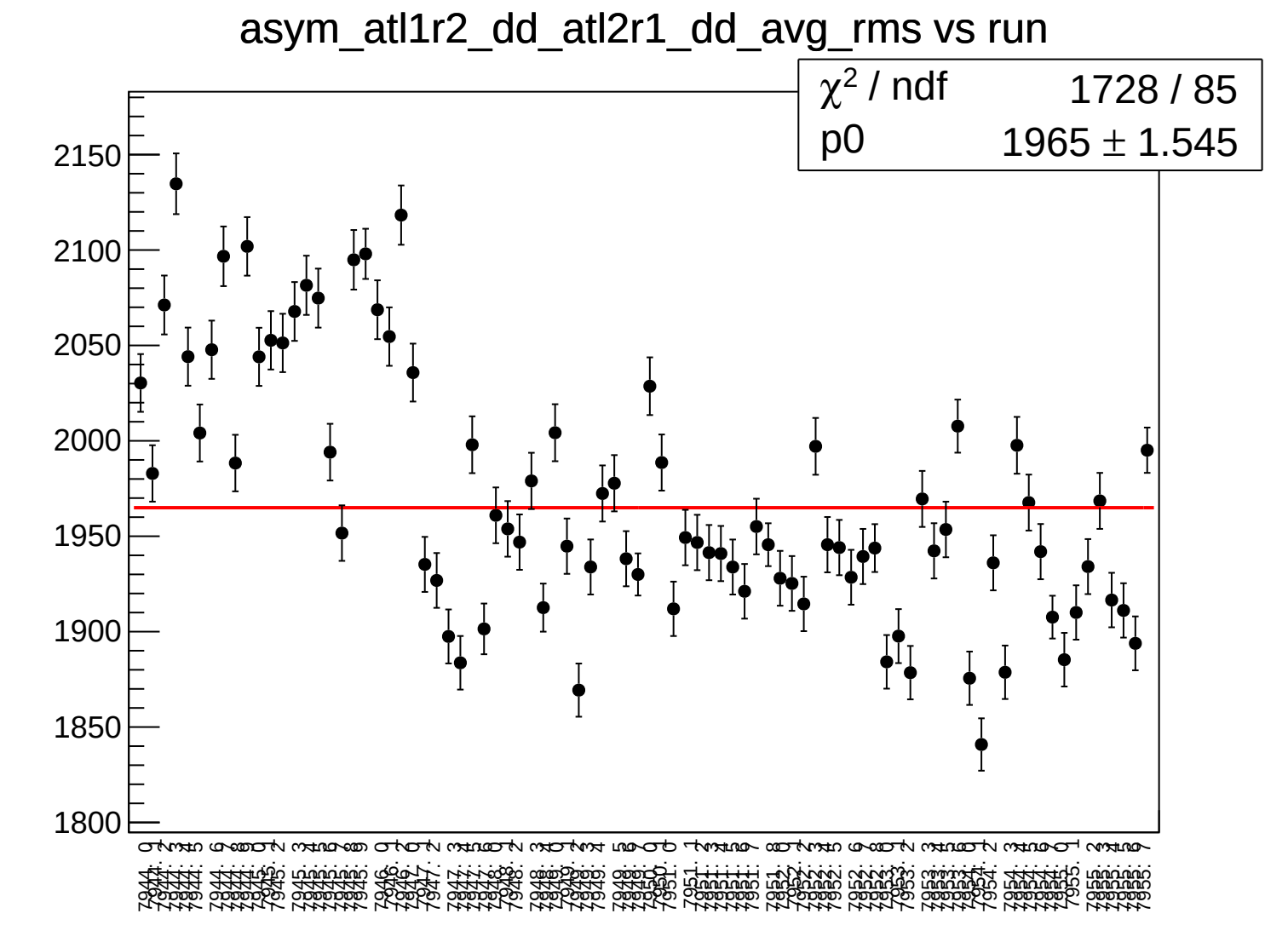

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.35 / 85
p0 476.5 ± 1681
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −315
Std Dev 0
2
1
0
−1
−2
−3

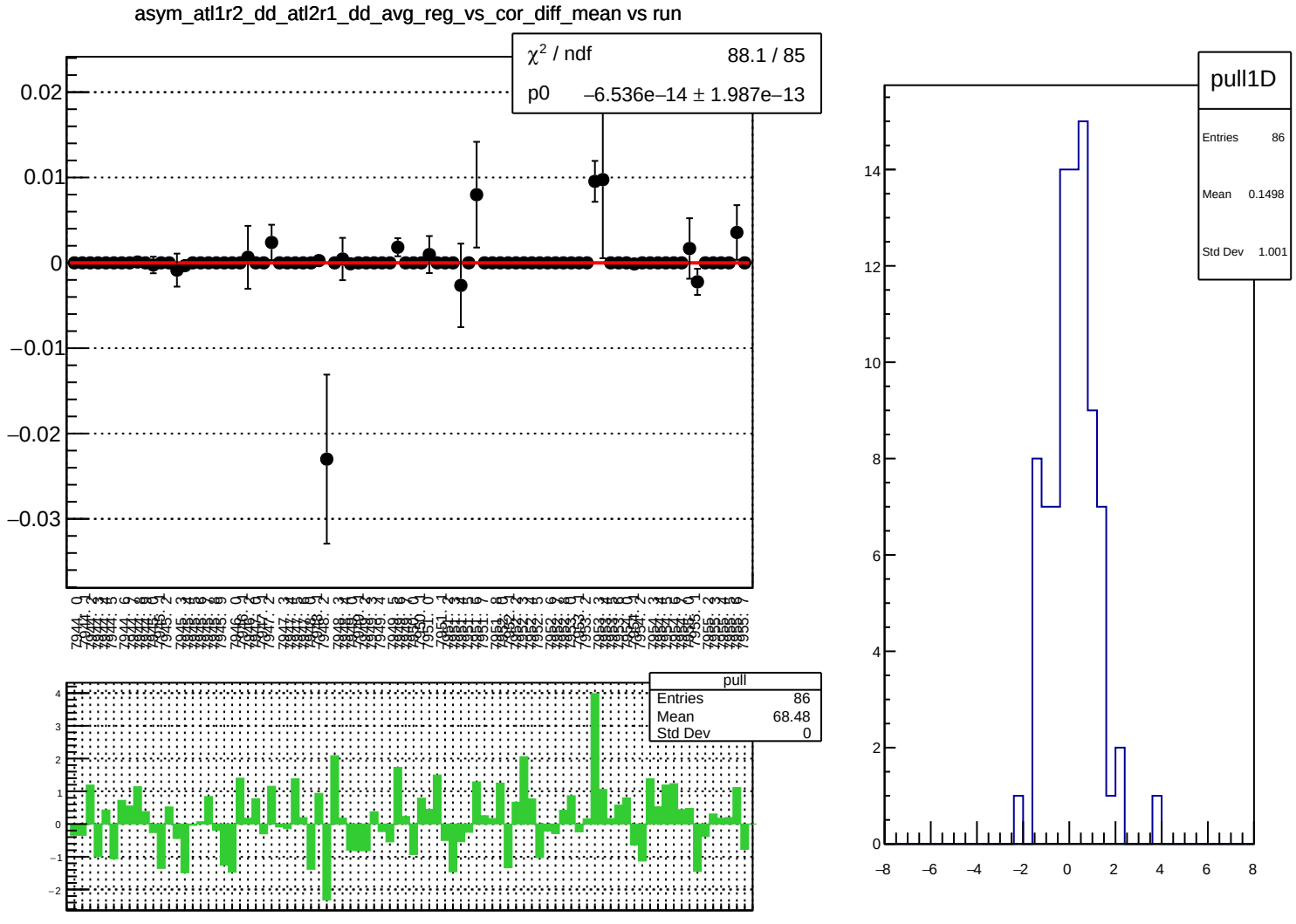

pull1D
Entries 86
Mean −0.006301
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

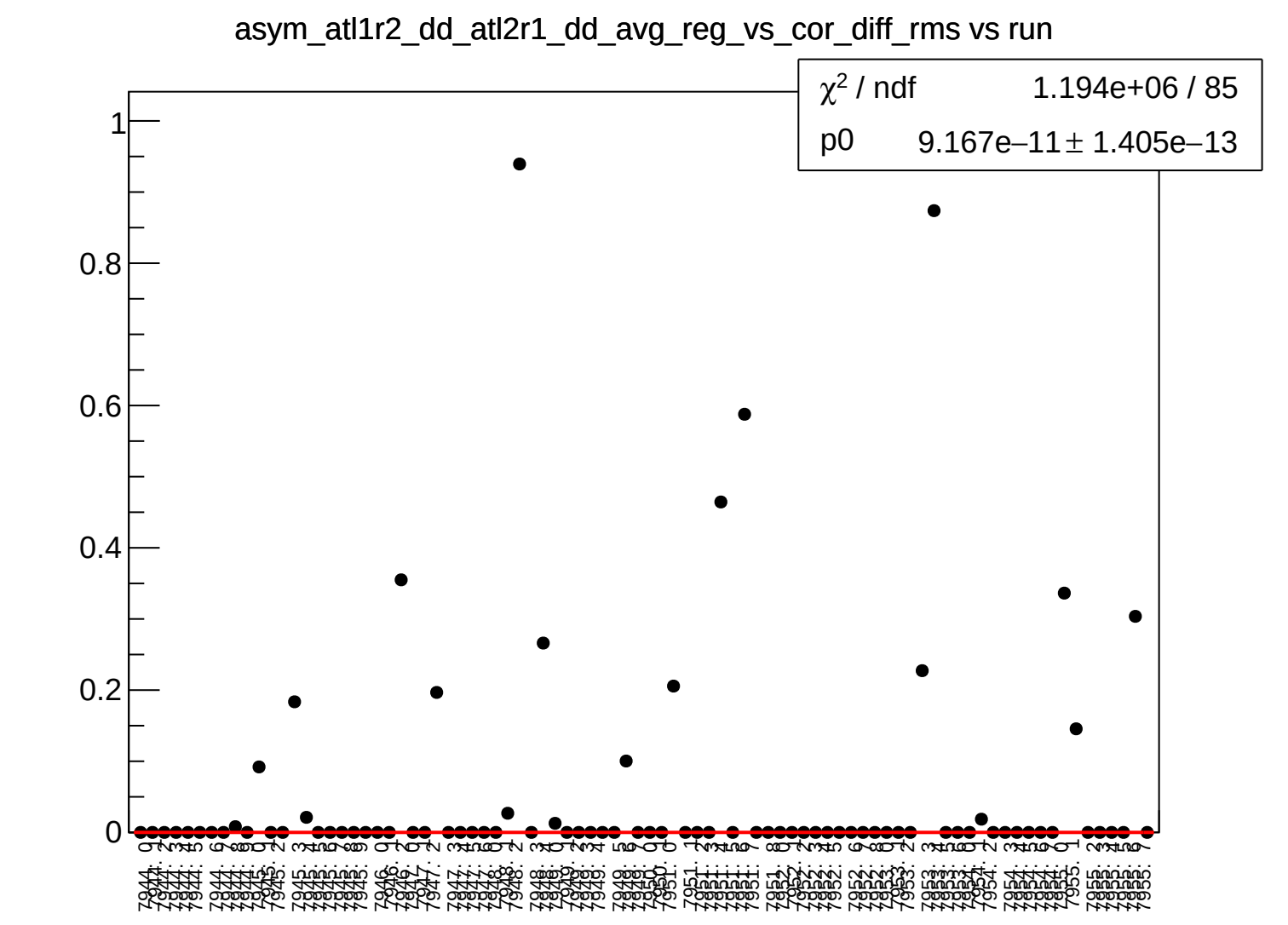

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3865 / 85
p0 1511 ± 1.189
1750
1700
1650
1600
1550
1500
1450
1400
1350

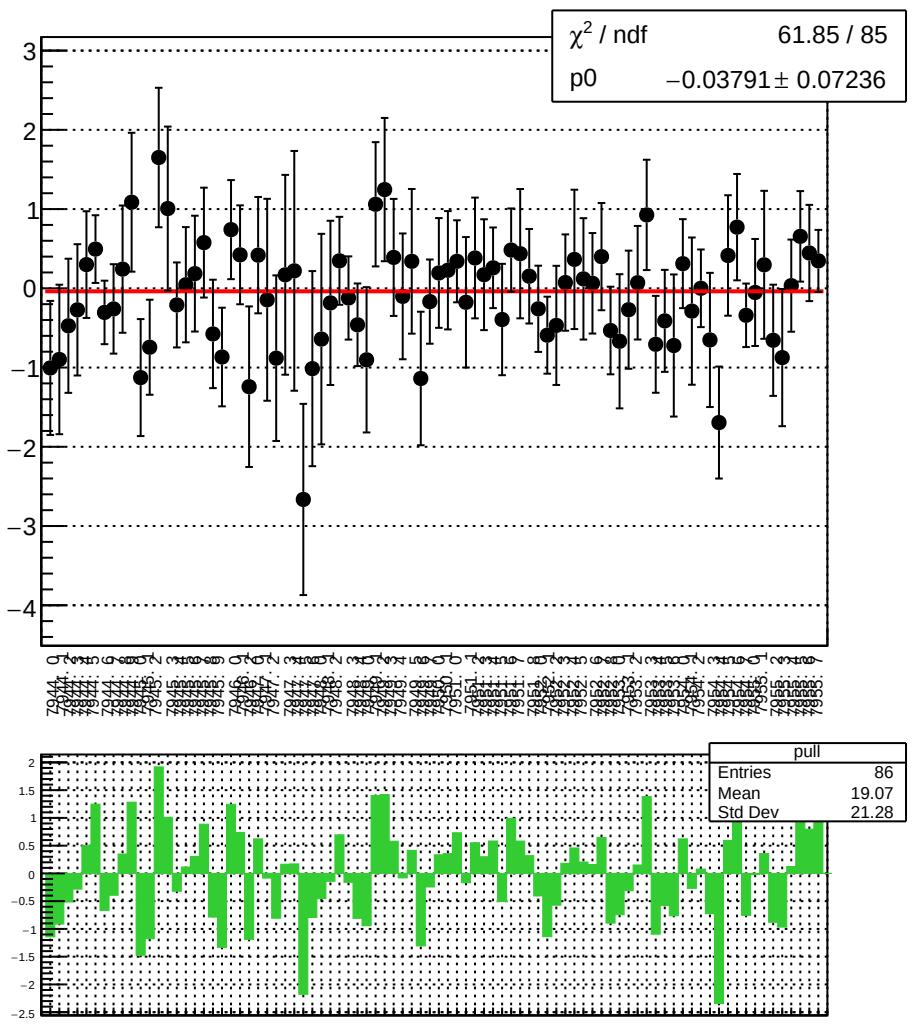

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 92.62 / 85
p0 −550.9 ± 2185
pull
Entries 86
Mean −516.3
Std Dev 0

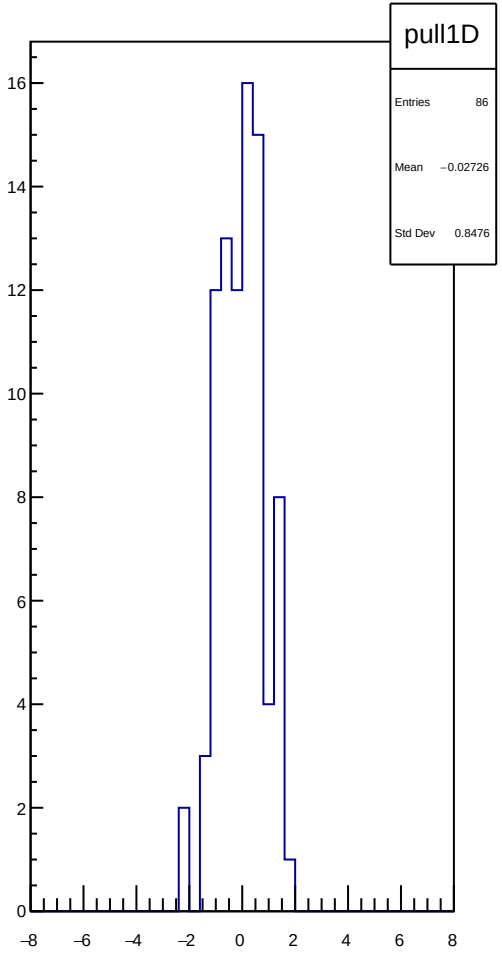

pull1D
Entries 86
Mean 0.006986
Std Dev 1.038

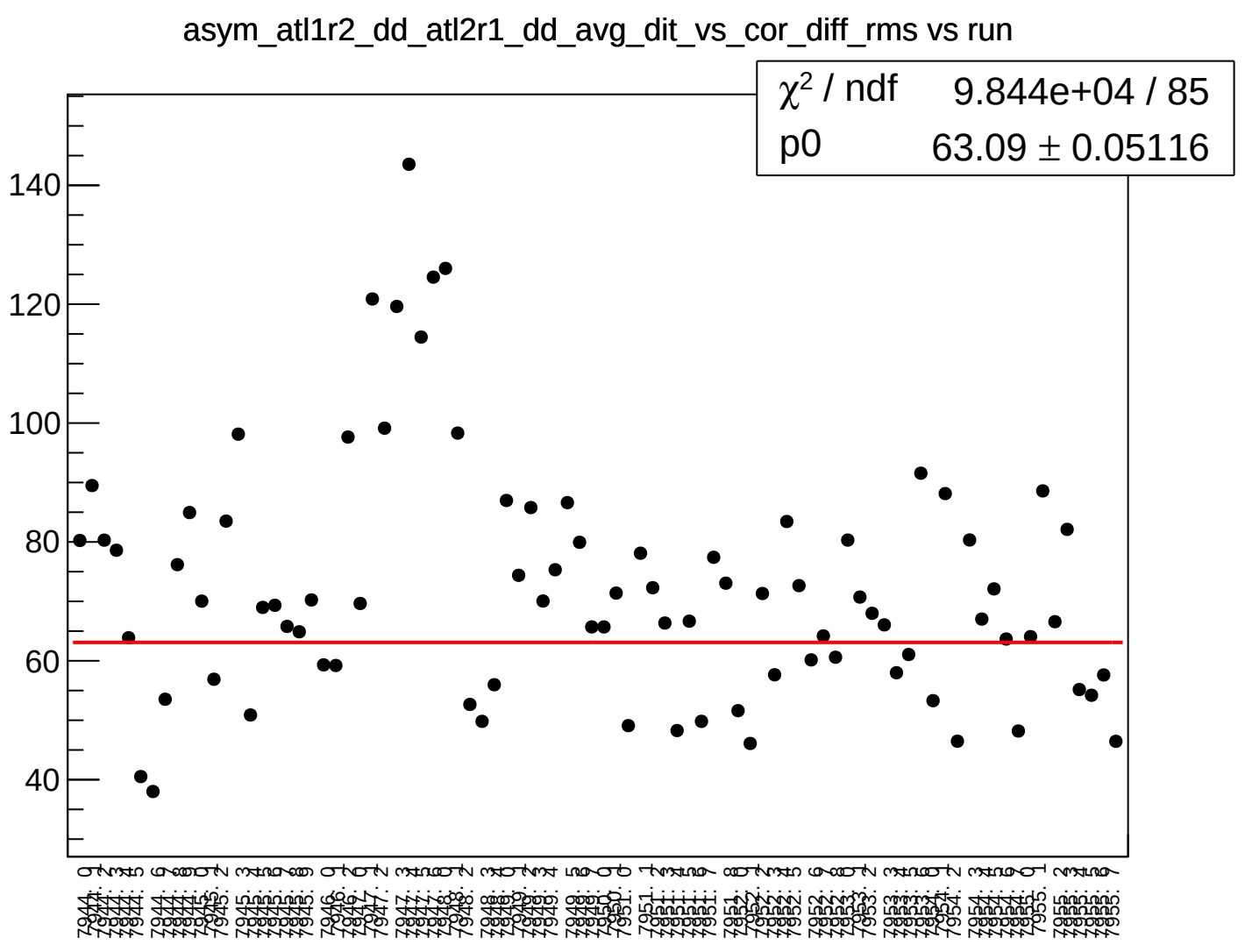

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 1728 / 85
p0 1965 ± 1.545
2150
2100
2050
2000
1950
1900
1850
1800

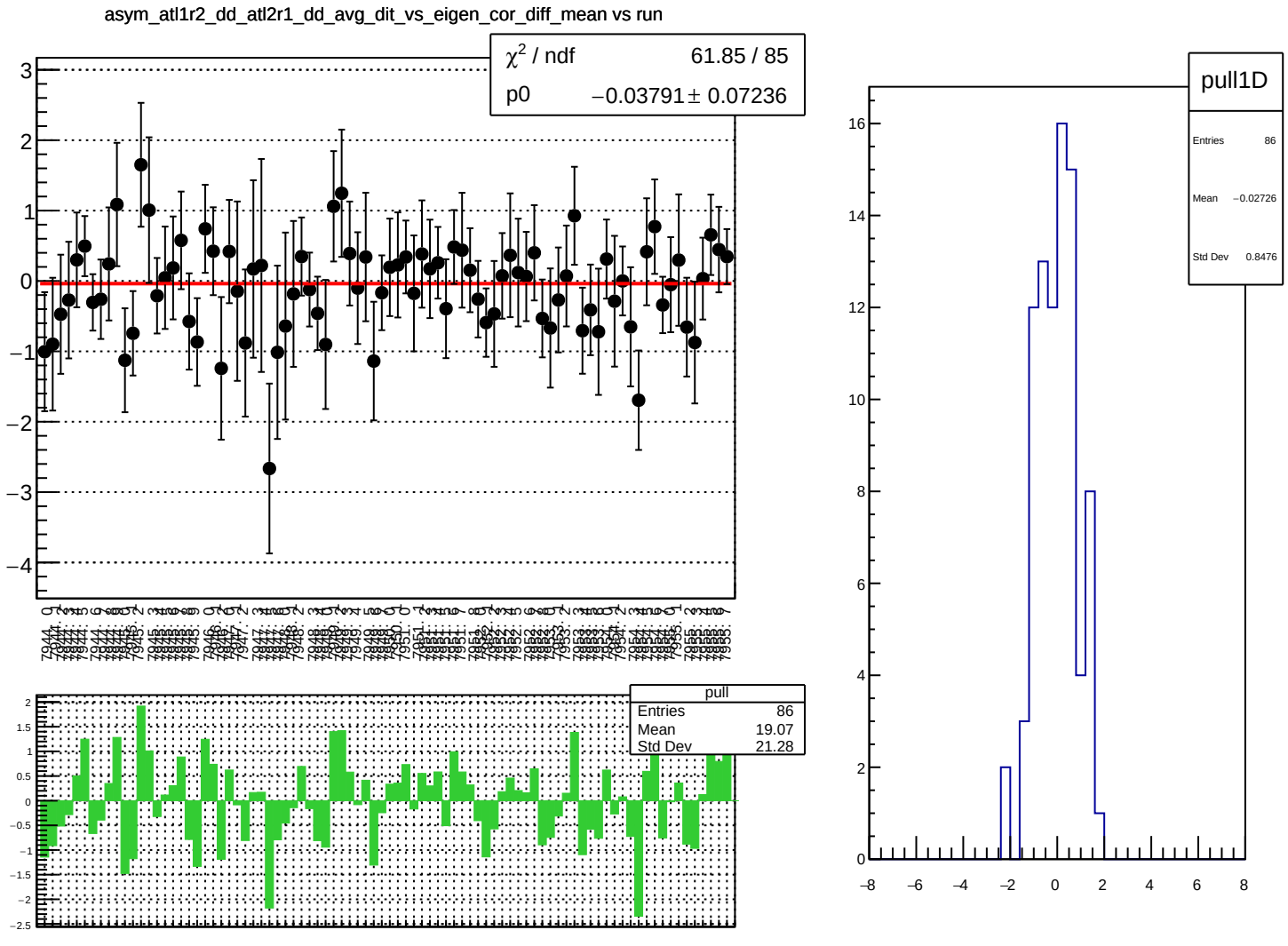

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.1 / 85
p0 −6.536e−14 ± 1.987e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 68.48
Std Dev 0
pull1D
Entries 86
Mean 0.1498
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

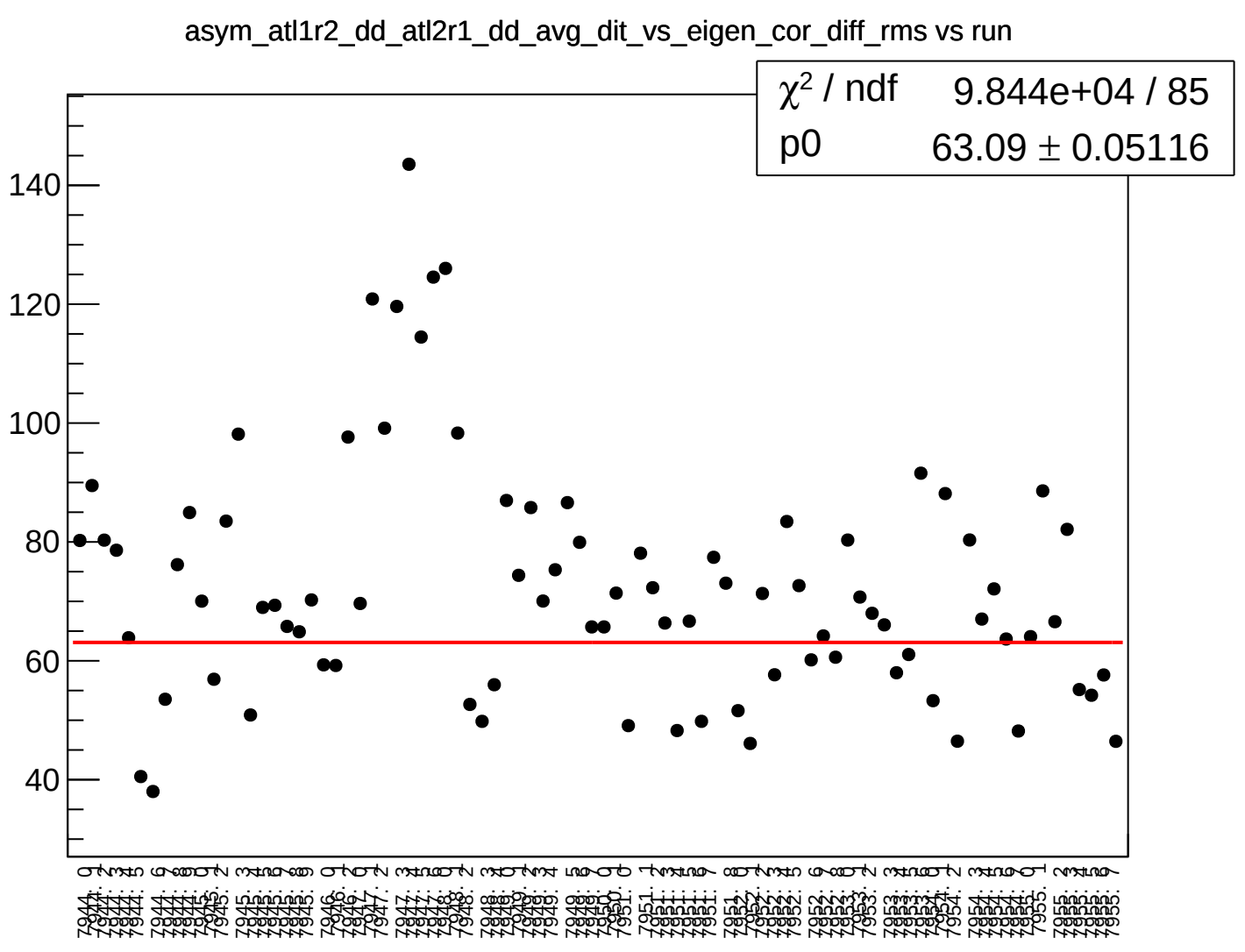

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.194e+06 / 85
p0 9.167e−11 ± 1.405e−13
1
0.8
0.6
0.4
0.2
0

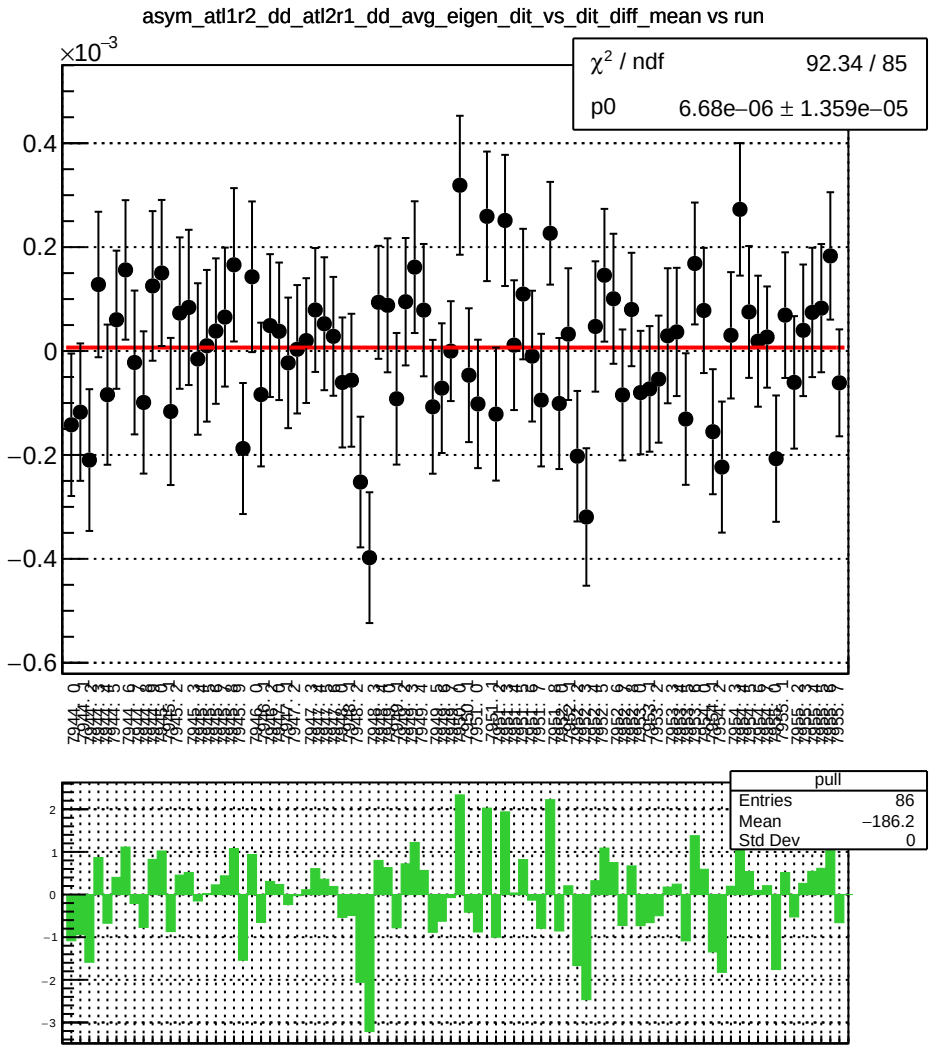

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 61.85 / 85
p0 −0.03791 ± 0.07236
pull
Entries 86
Mean 19.07
Std Dev 21.28

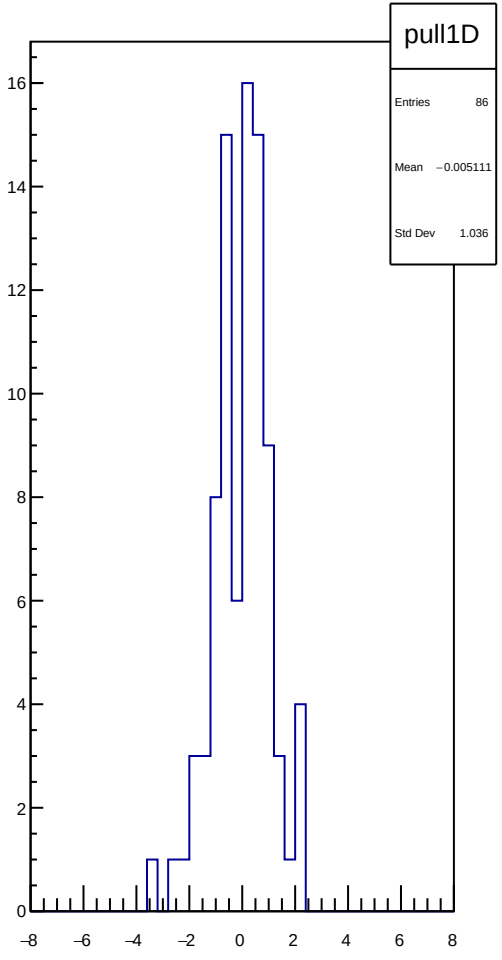

pull1D
Entries 86
Mean −0.02726
Std Dev 0.8476

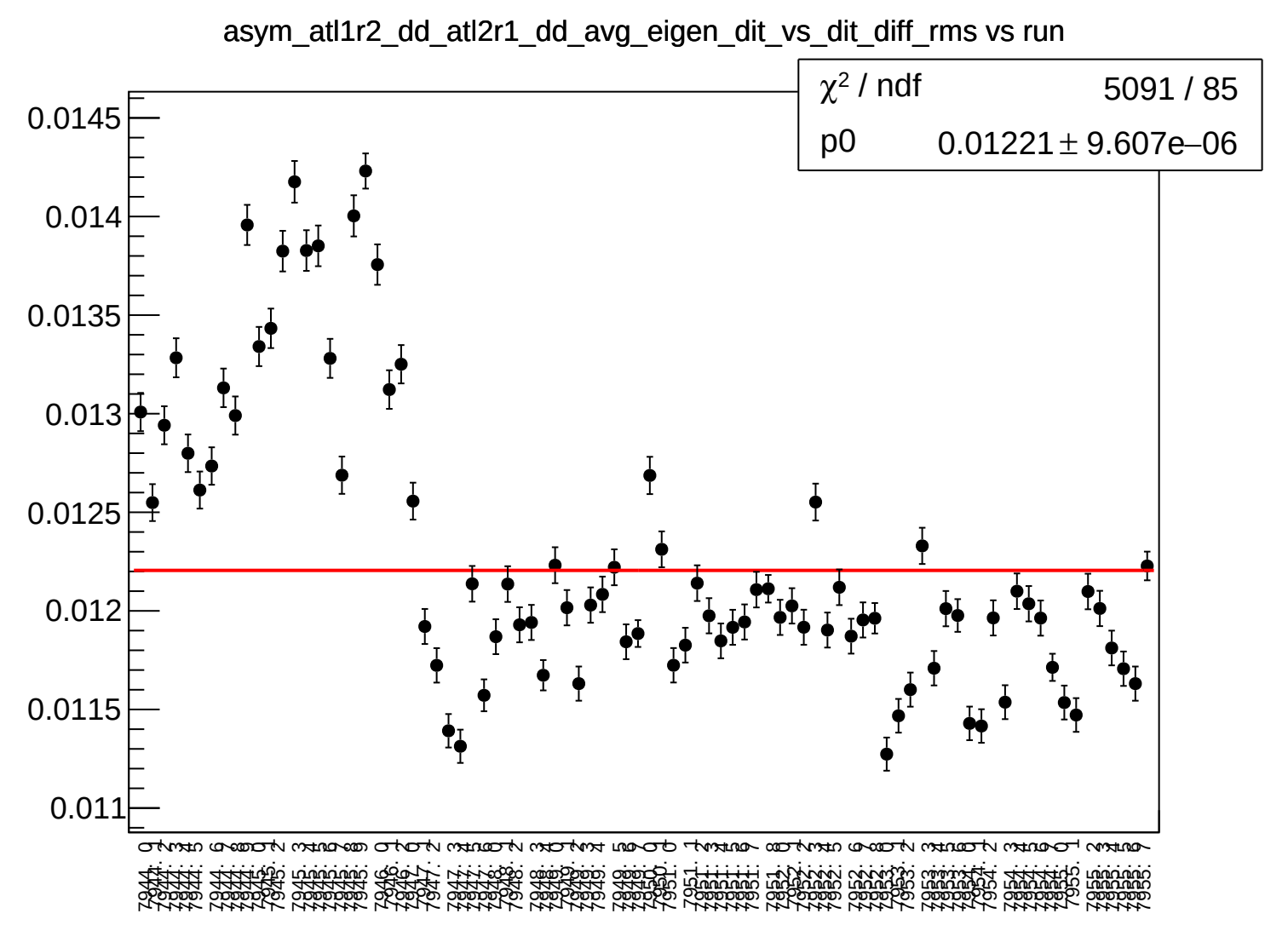

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.844e+04 / 85
p0 63.09 ± 0.05116
140
120
100
80
60
40

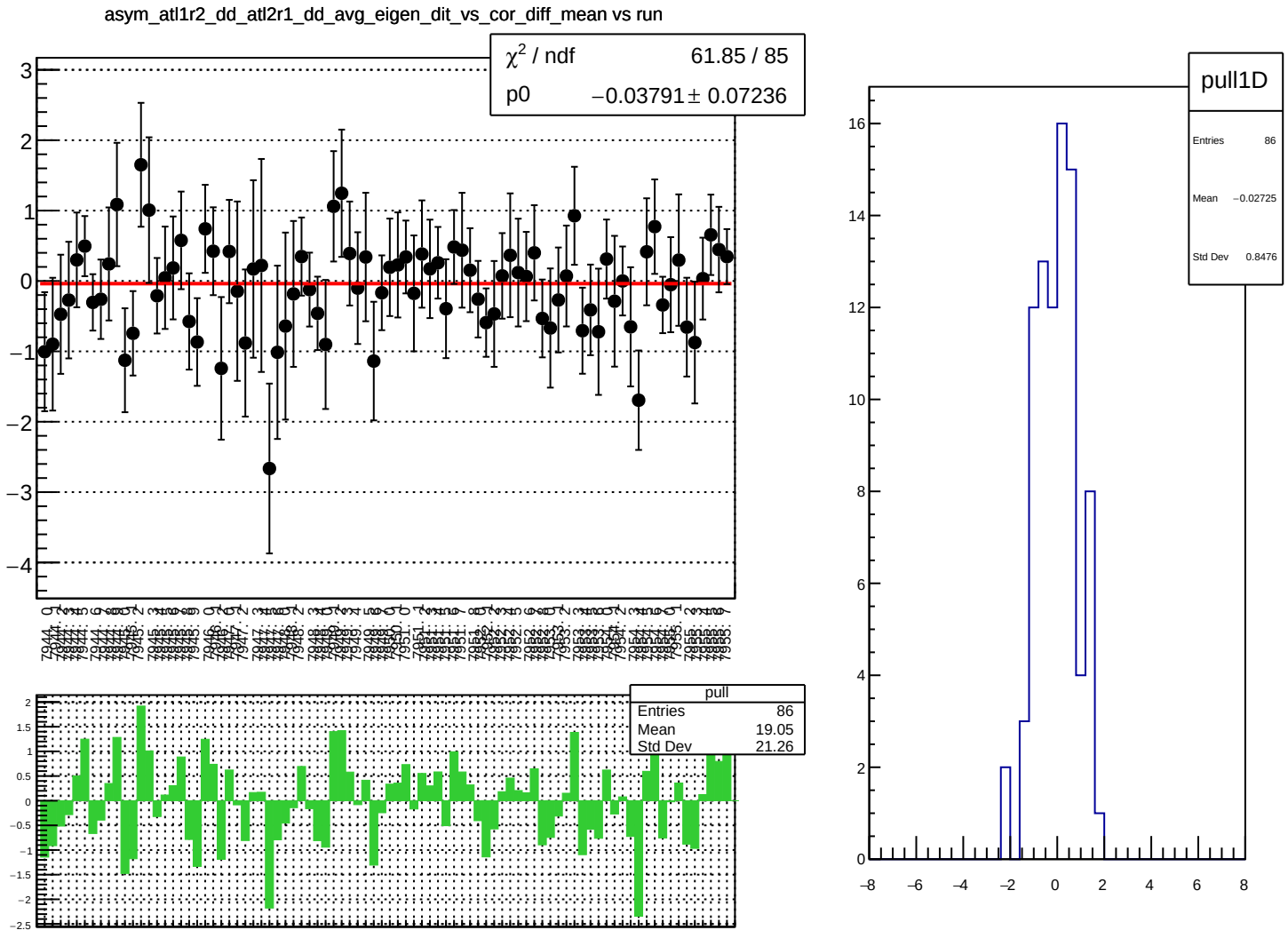

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.85 / 85
p0 −0.03791 ± 0.07236
pull
Entries 86
Mean 19.07
Std Dev 21.28
pull1D
Entries 86
Mean −0.02726
Std Dev 0.8476

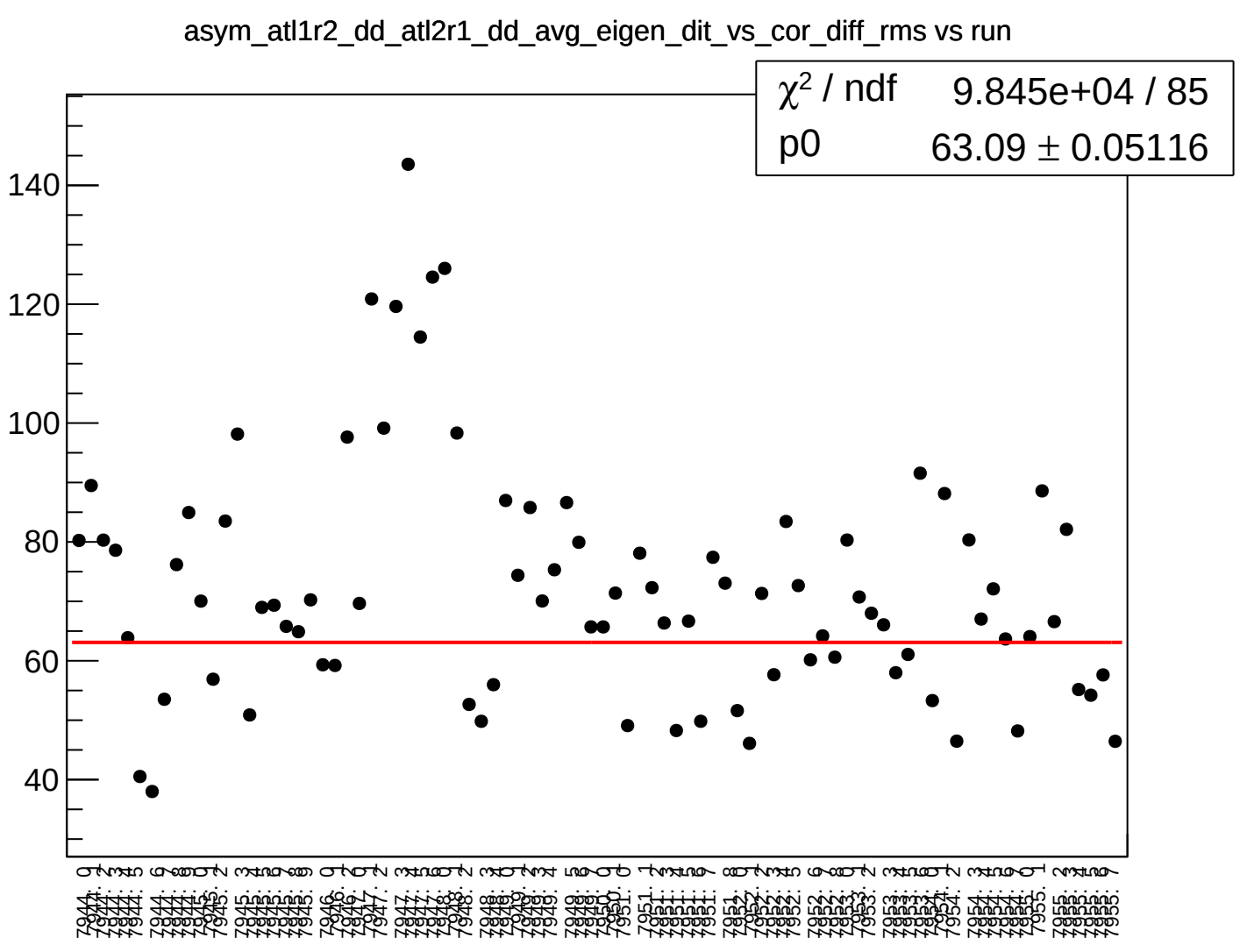

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.844e+04 / 85
p0 63.09 ± 0.05116
140
120
100
80
60
40

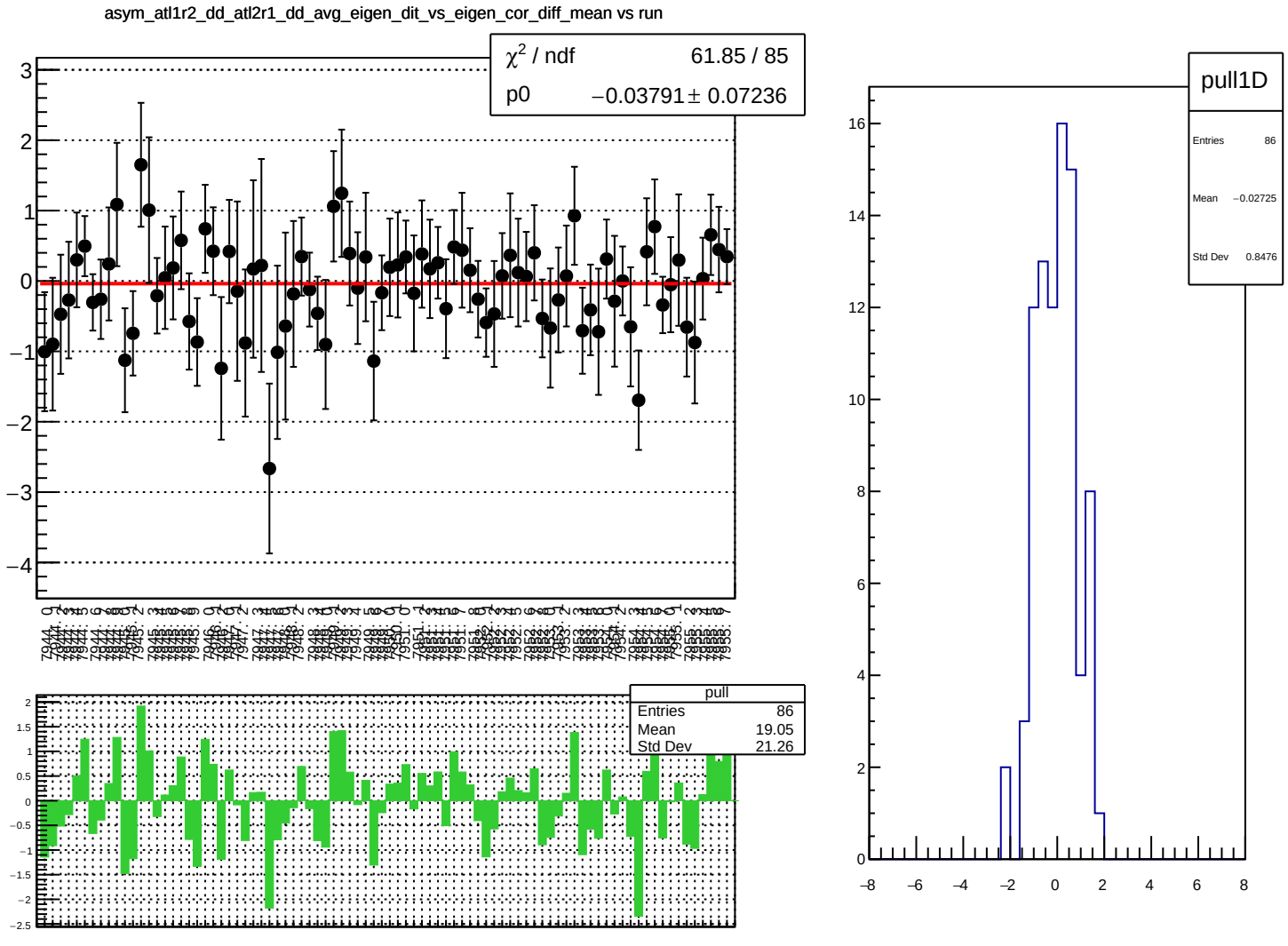

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 92.34 / 85
p0 6.68e−06 ± 1.359e−05
pull
Entries 86
Mean −186.2
Std Dev 0

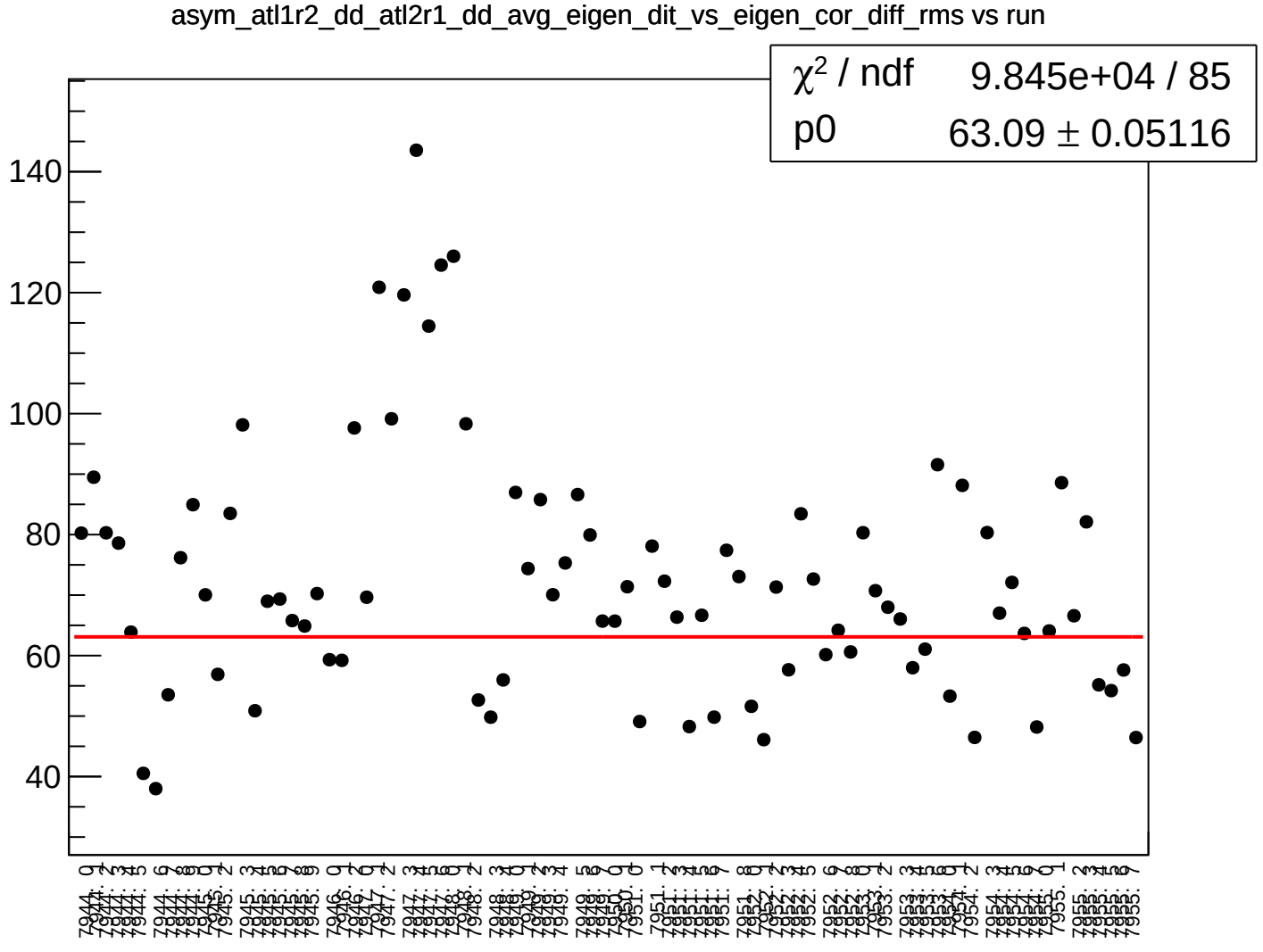

pull1D
Entries 86
Mean −0.005111
Std Dev 1.036

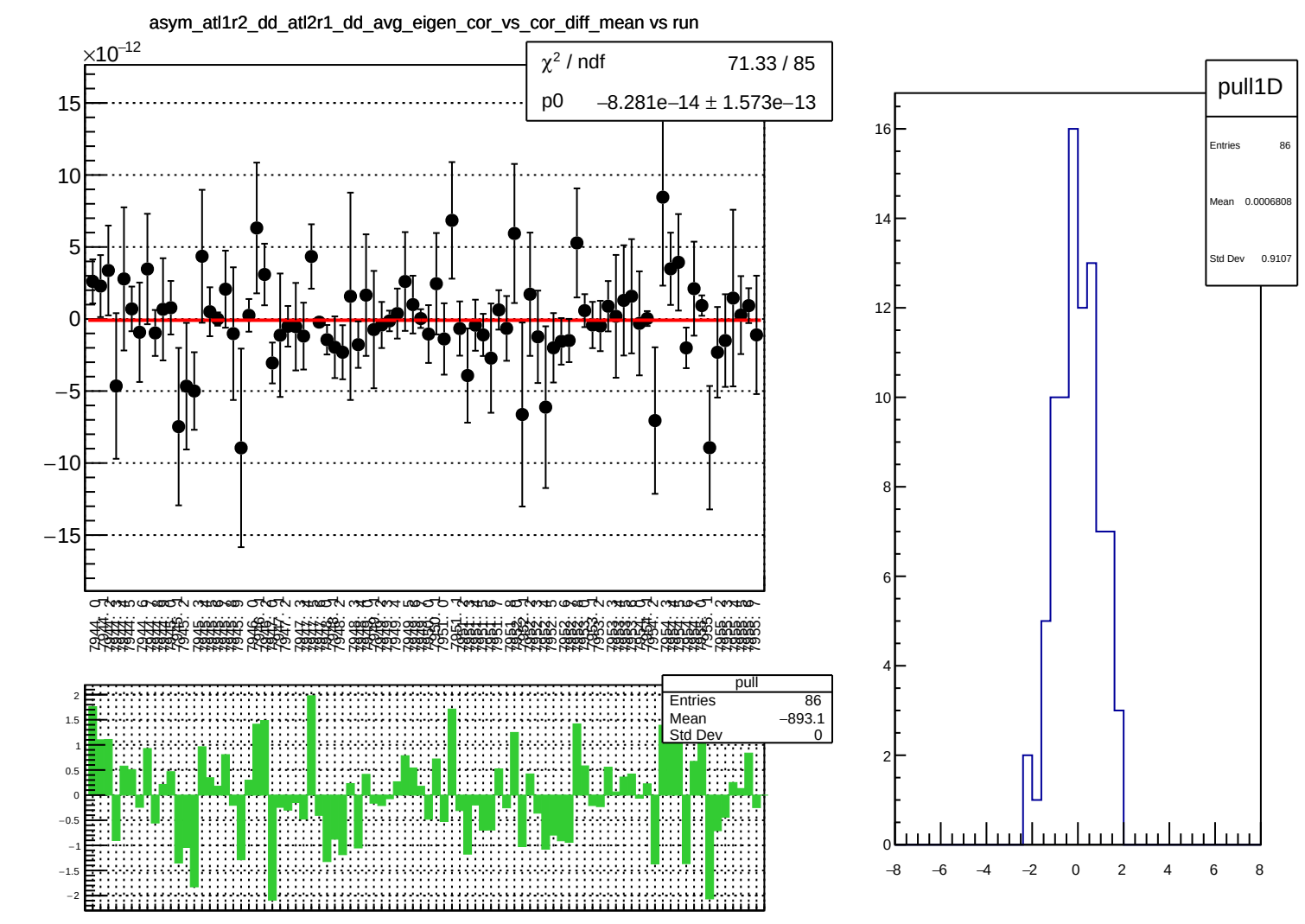

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5091 / 85
p0 0.01221 ± 9.607e−06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011

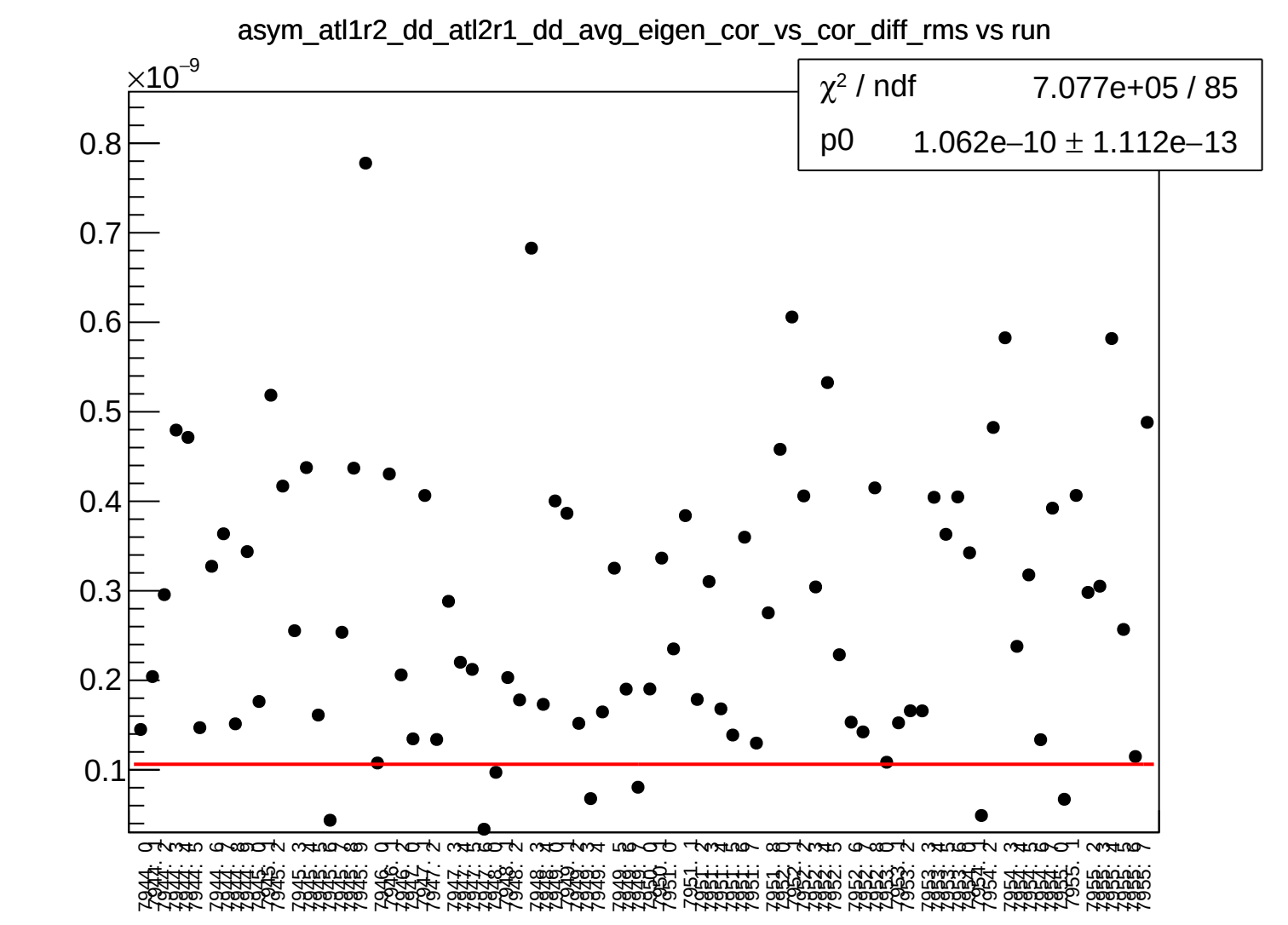

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.85 / 85
p0 −0.03791 ± 0.07236
pull
Entries 86
Mean 19.05
Std Dev 21.26
pull1D
Entries 86
Mean −0.02725
Std Dev 0.8476

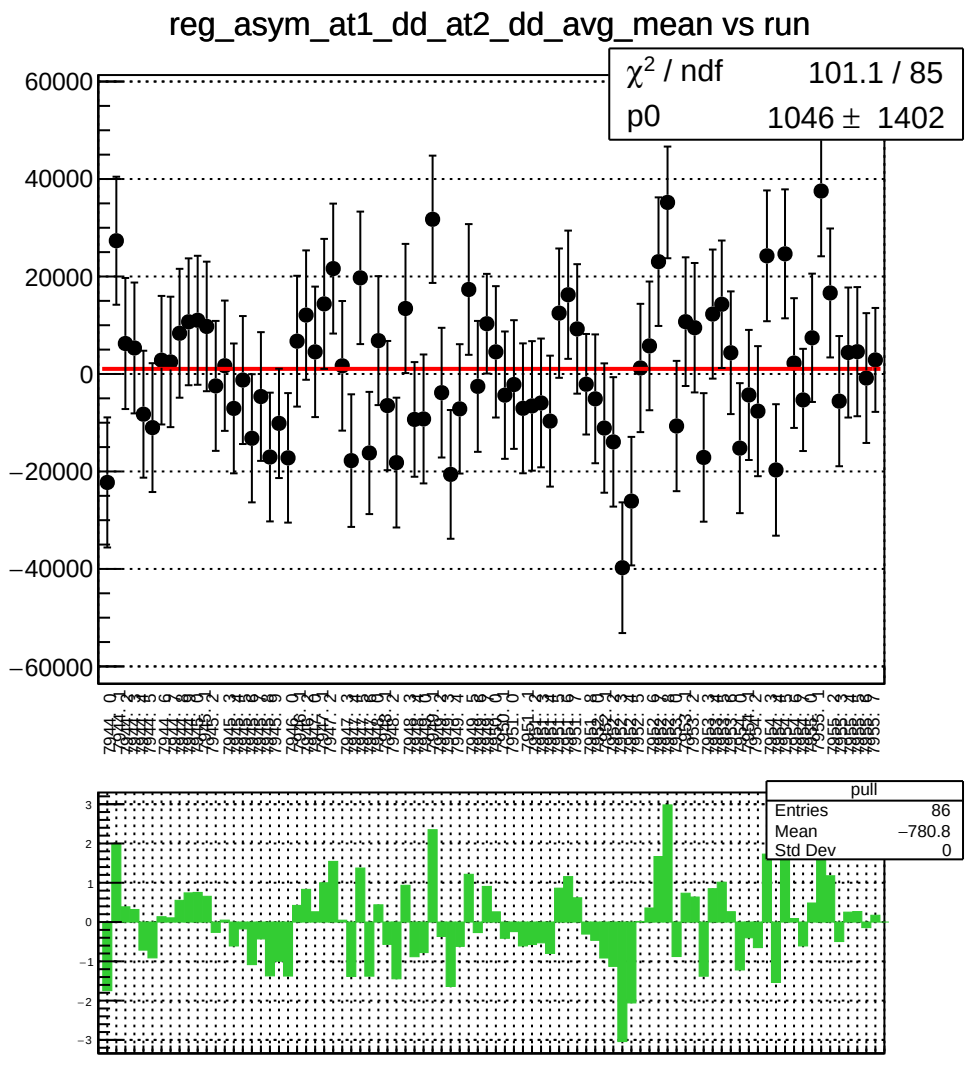

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.845e+04 / 85
p0 63.09 ± 0.05116
140
120
100
80
60
40

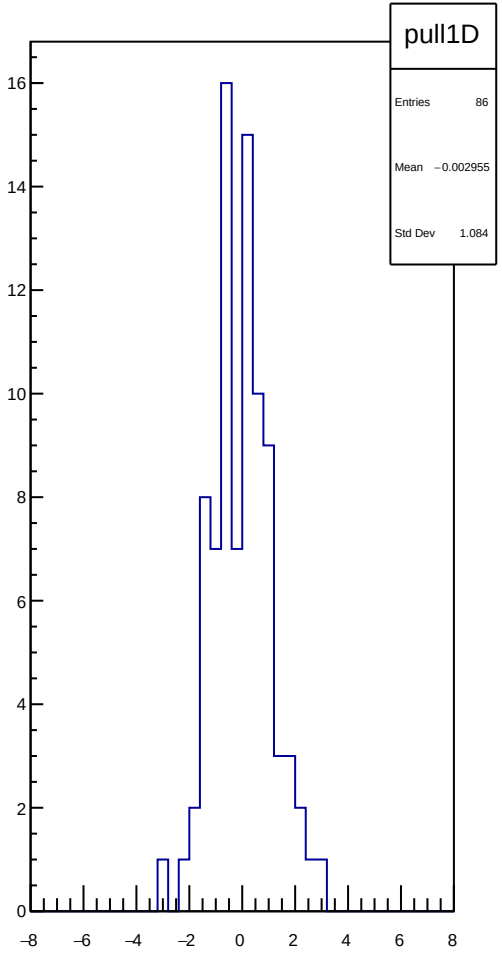

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.85 / 85
p0 −0.03791 ± 0.07236
pull
Entries 86
Mean 19.05
Std Dev 21.26
pull1D
Entries 86
Mean −0.02725
Std Dev 0.8476

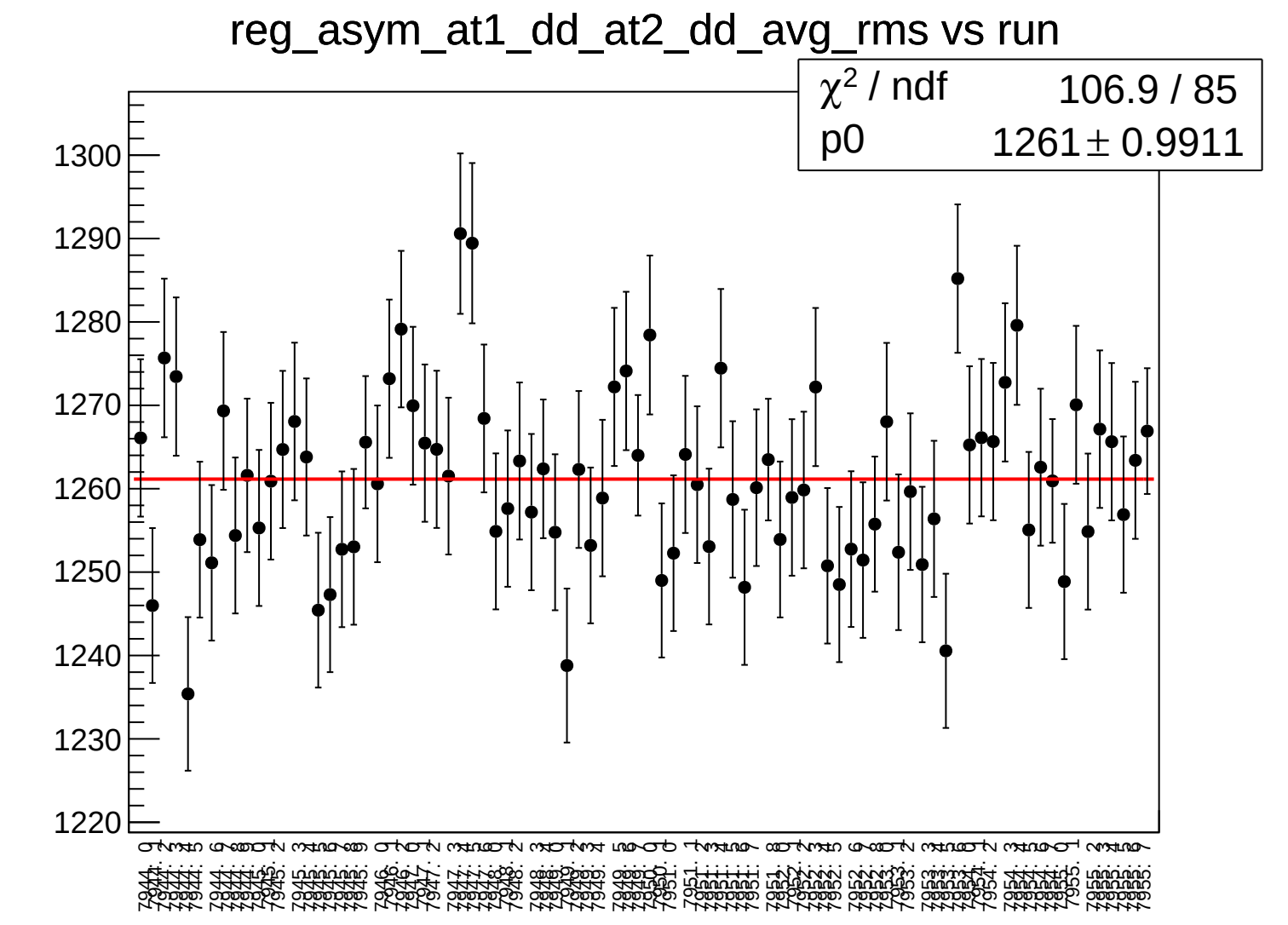

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.845e+04 / 85
p0 63.09 ± 0.05116
140
120
100
80
60
40

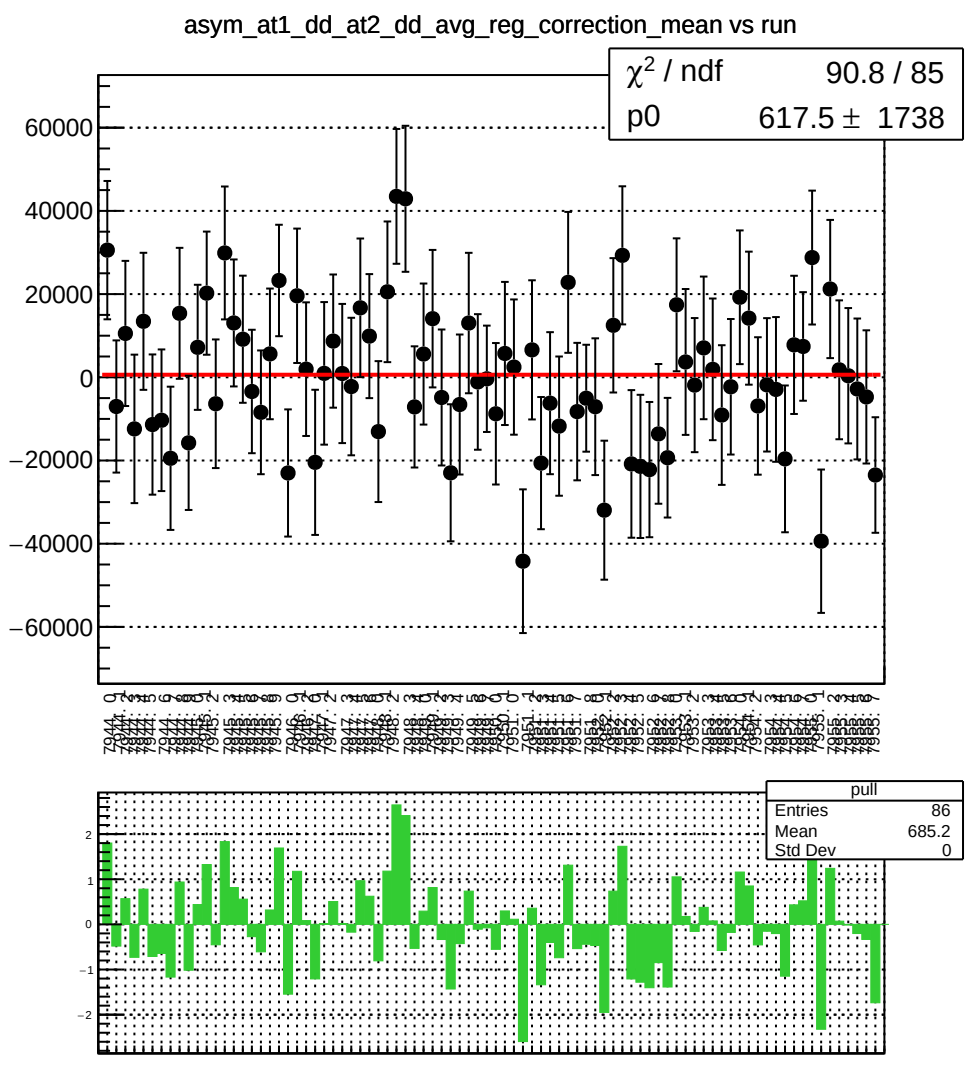

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.33 / 85
p0 −8.281e−14 ± 1.573e−13
pull
Entries 86
Mean −893.1
Std Dev 0
pull1D
Entries 86
Mean 0.0006808
Std Dev 0.9107

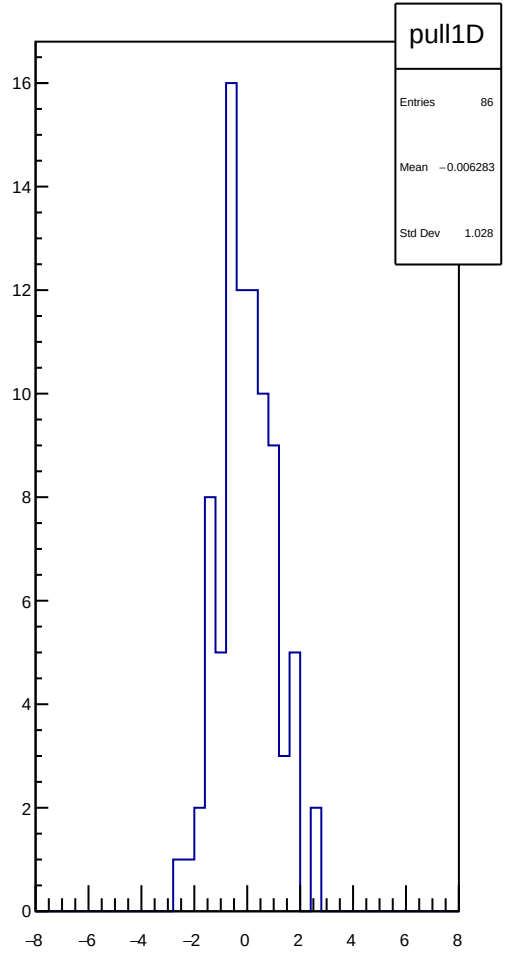

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.077e+05 / 85
p0 1.062e−10 ± 1.112e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

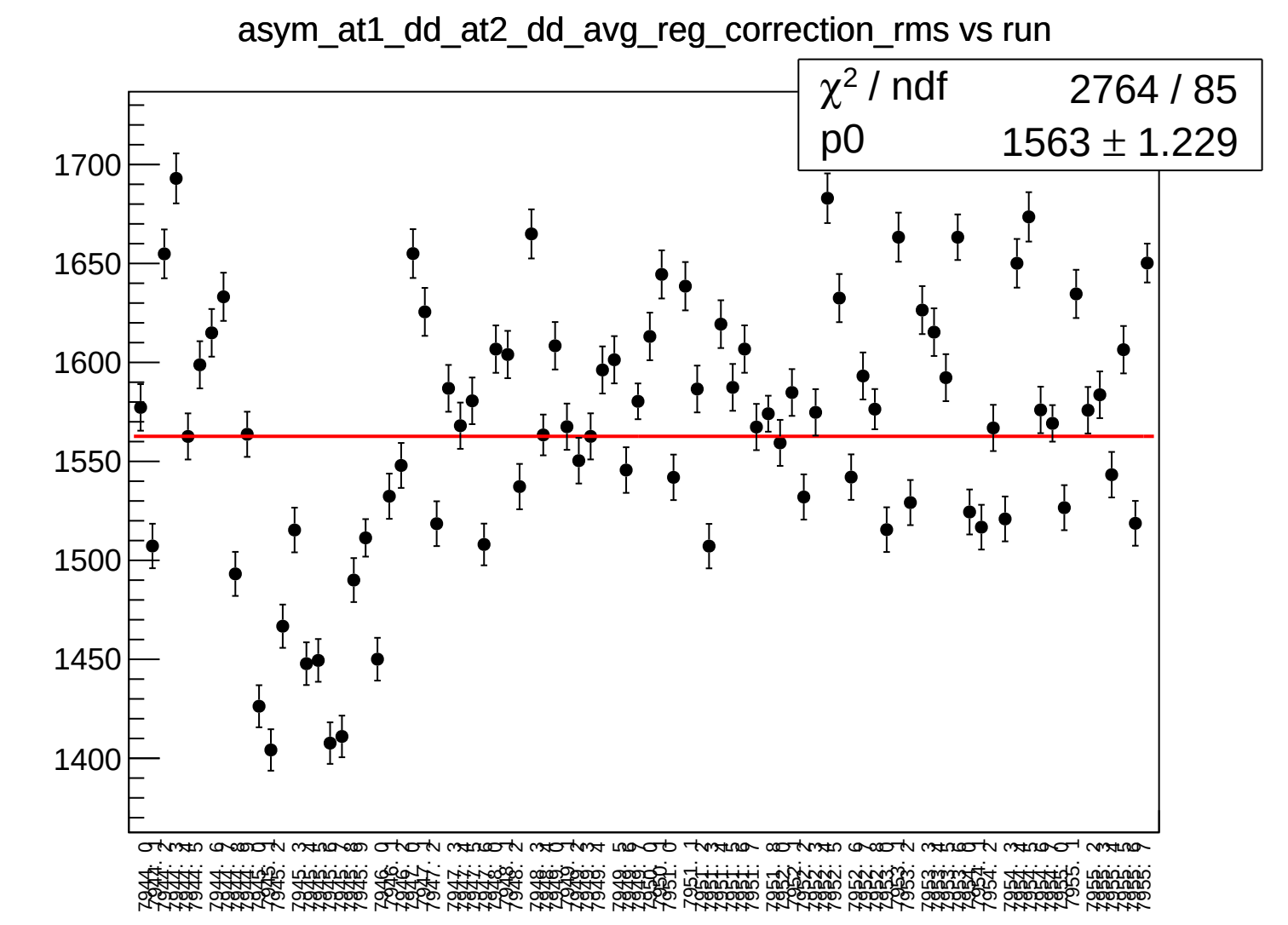

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 101.1 / 85
p0 1046 ± 1402
pull
Entries 86
Mean −780.8
Std Dev 0

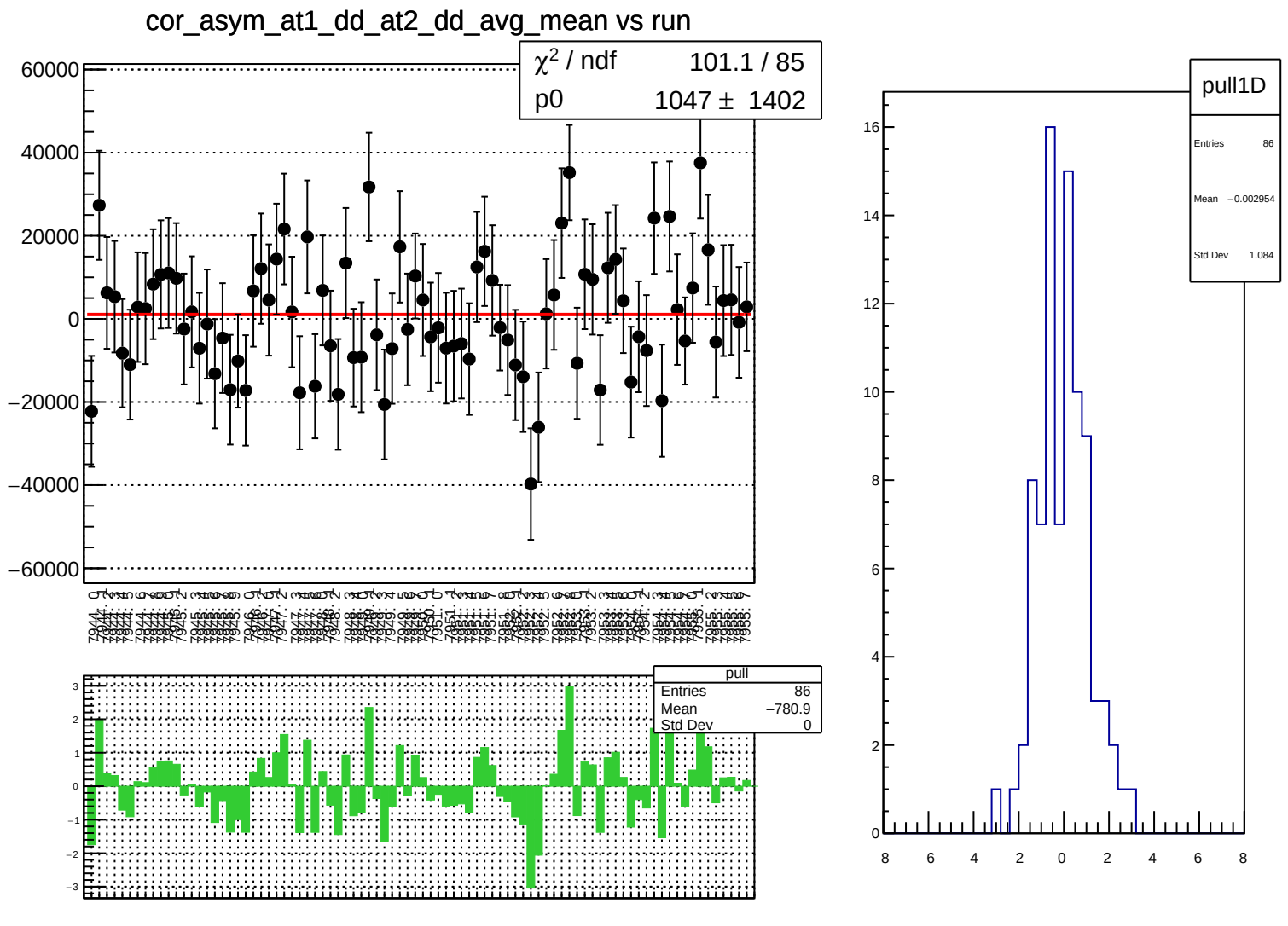

pull1D
Entries 86
Mean −0.002955
Std Dev 1.084

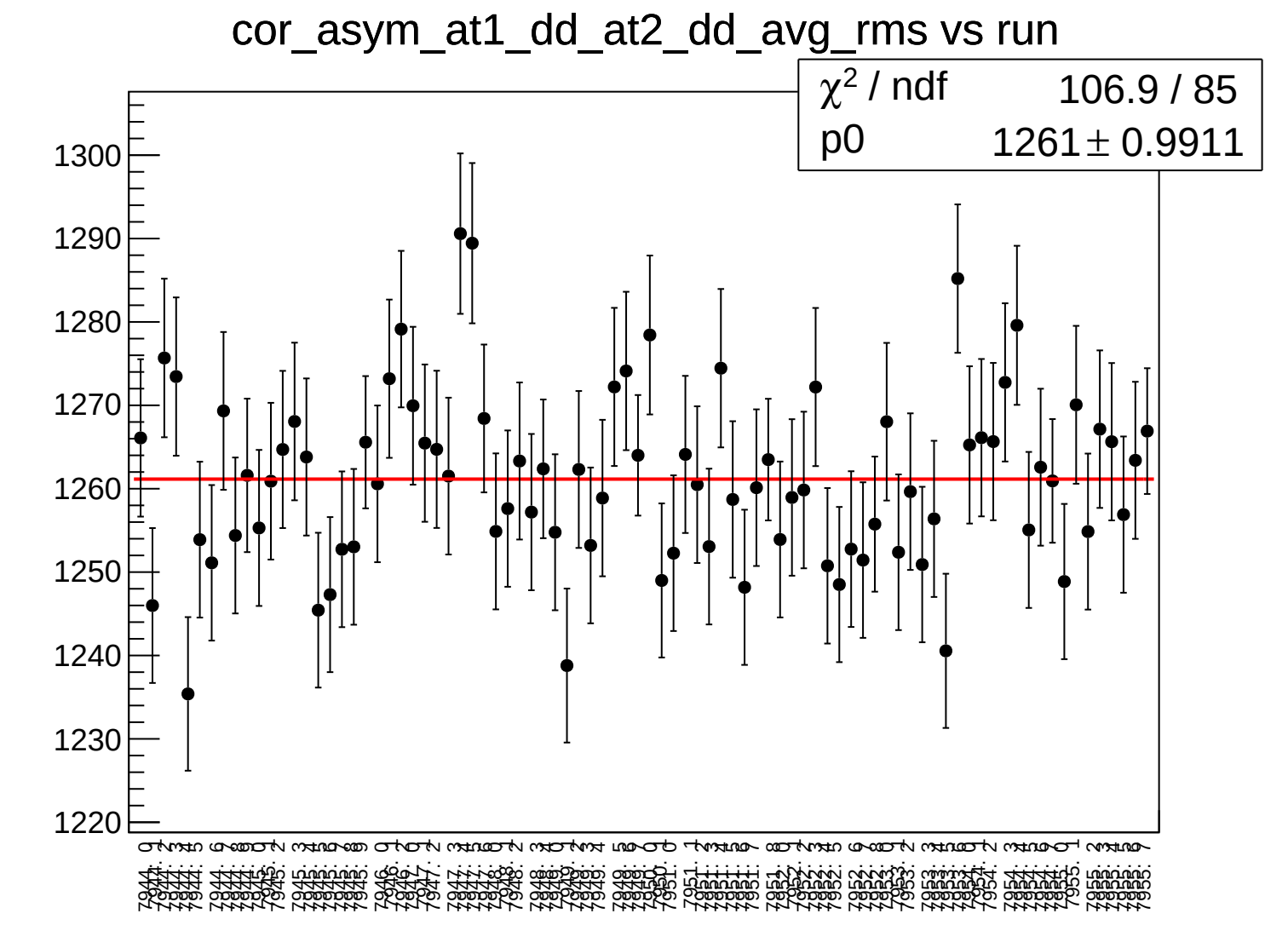

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 106.9 / 85
p0 1261 ± 0.9911
1300
1290
1280
1270
1260
1250
1240
1230
1220

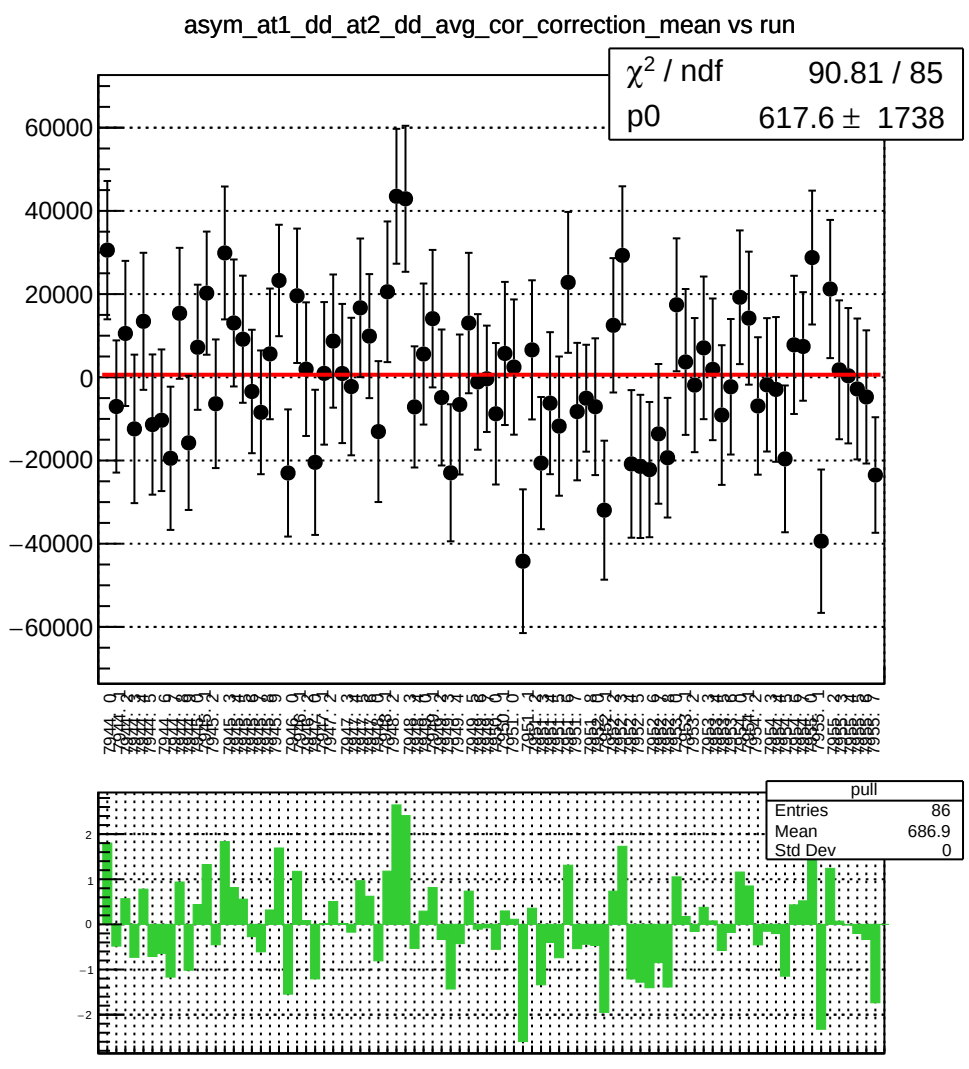

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 90.8 / 85
p0 617.5 ± 1738
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 685.2
Std Dev 0
2
1
0
−1
−2

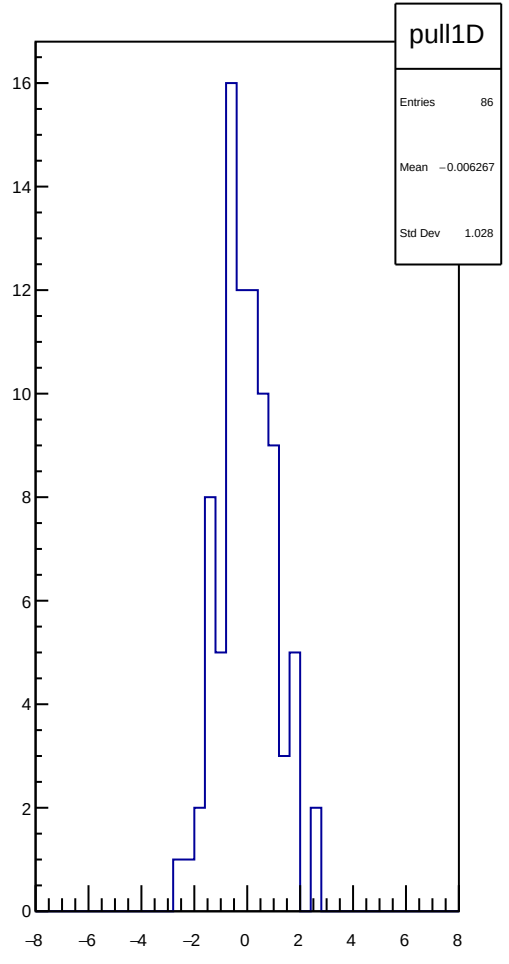

pull1D
Entries 86
Mean −0.006283
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

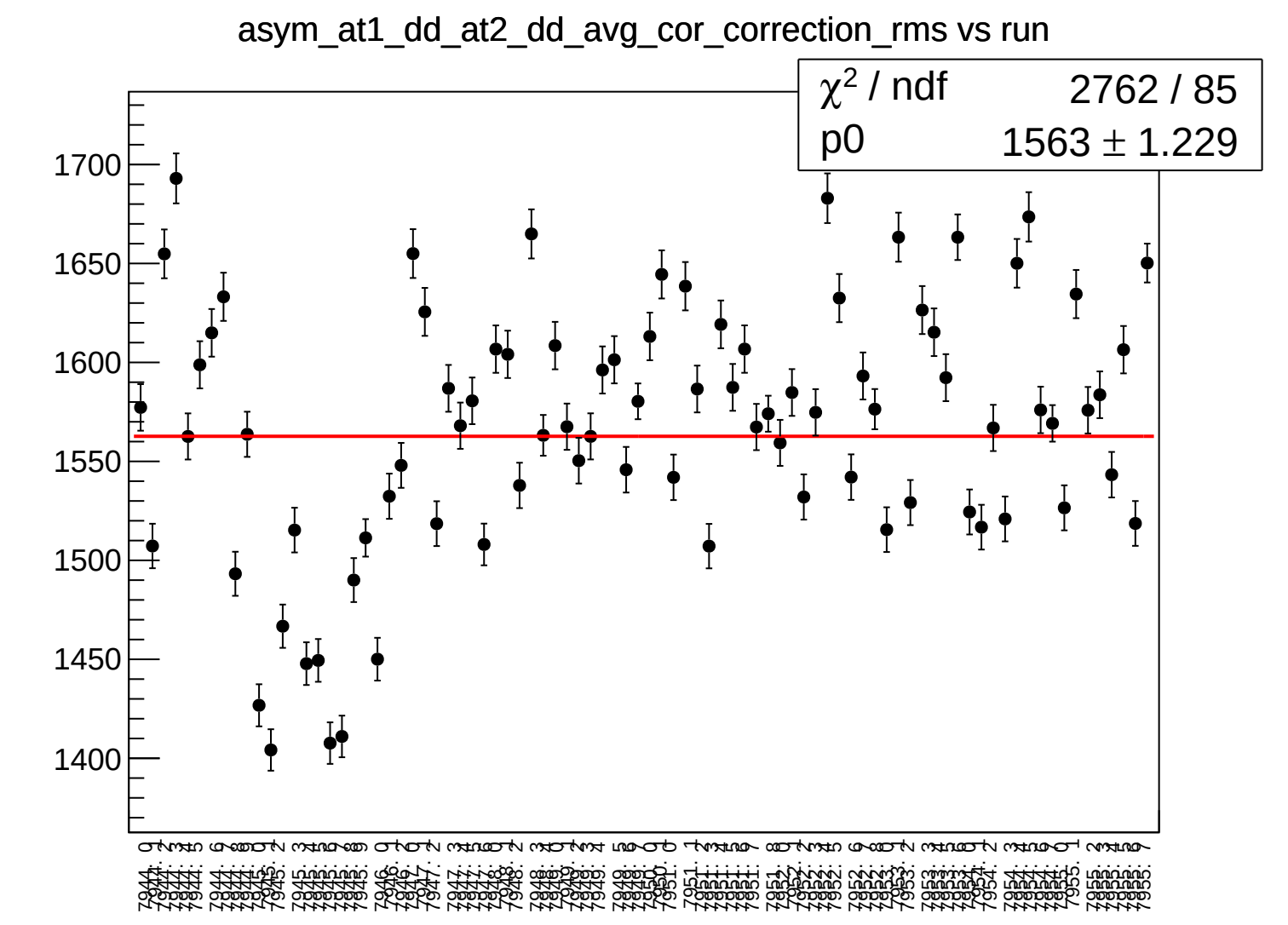

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2764 / 85
p0 1563 ± 1.229
1700
1650
1600
1550
1500
1450
1400

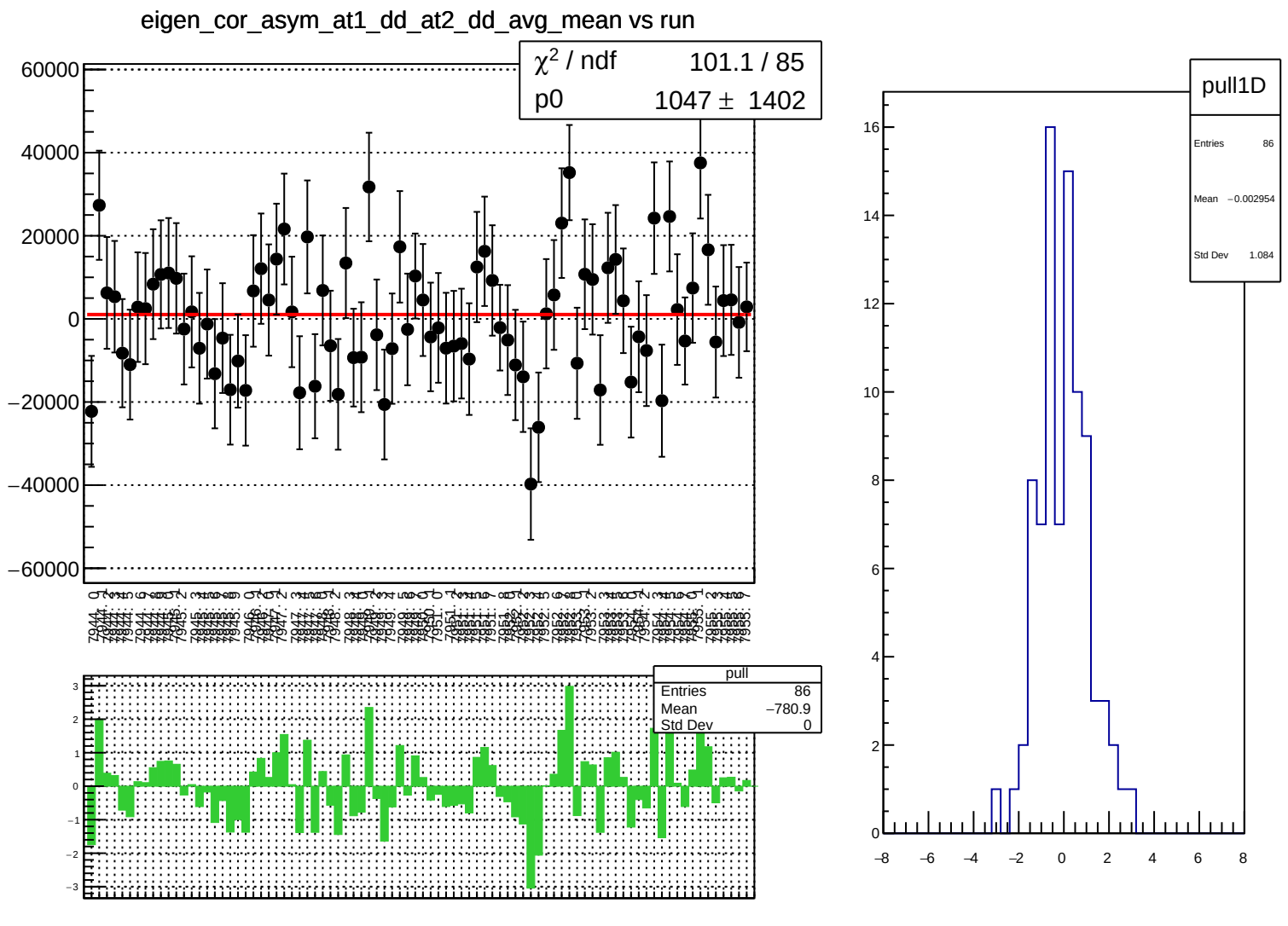

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 101.1 / 85
p0 1047 ± 1402
pull
Entries 86
Mean −780.9
Std Dev 0
pull1D
Entries 86
Mean −0.002954
Std Dev 1.084

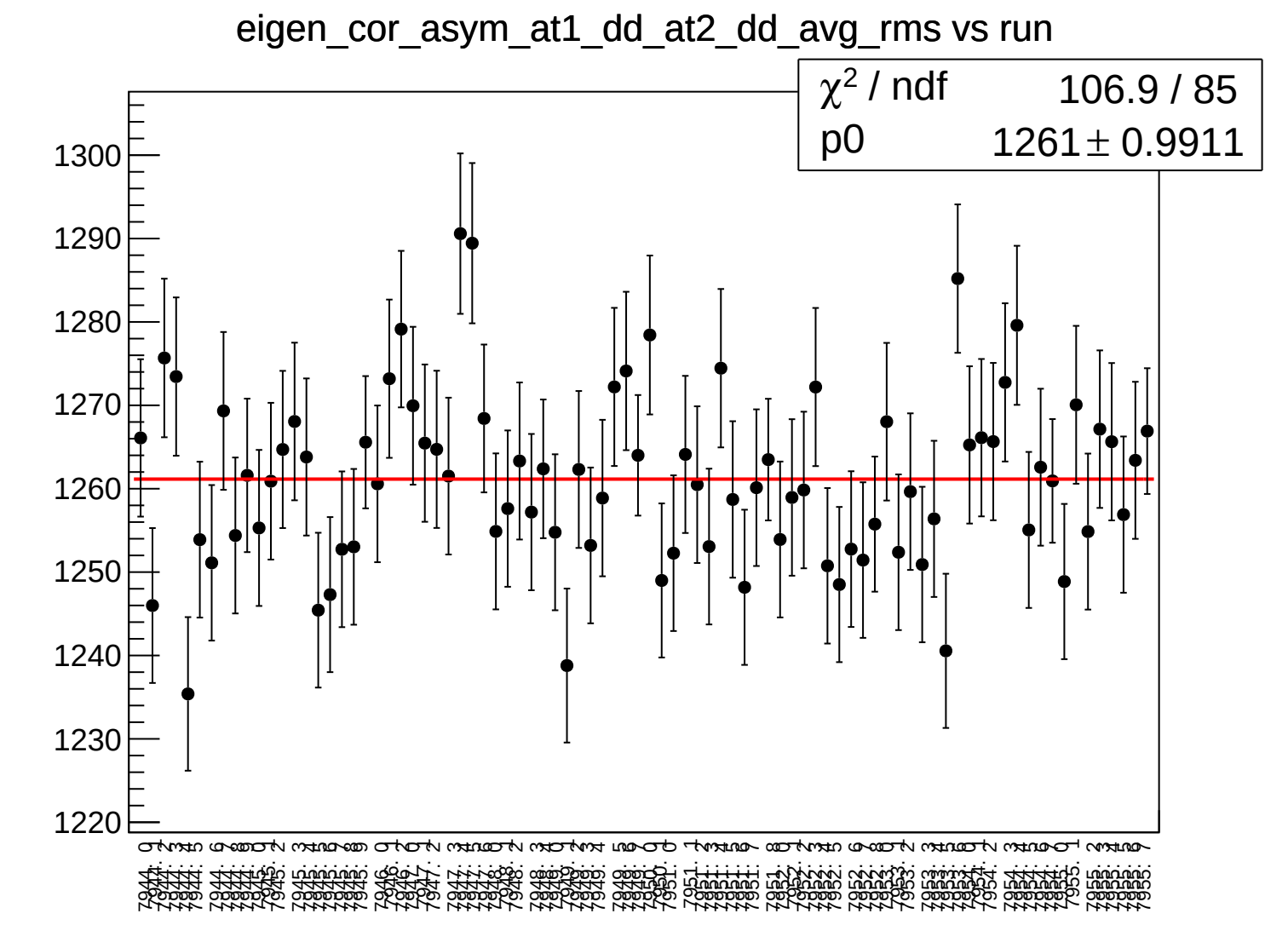

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 106.9 / 85
p0 1261 ± 0.9911
1300
1290
1280
1270
1260
1250
1240
1230
1220

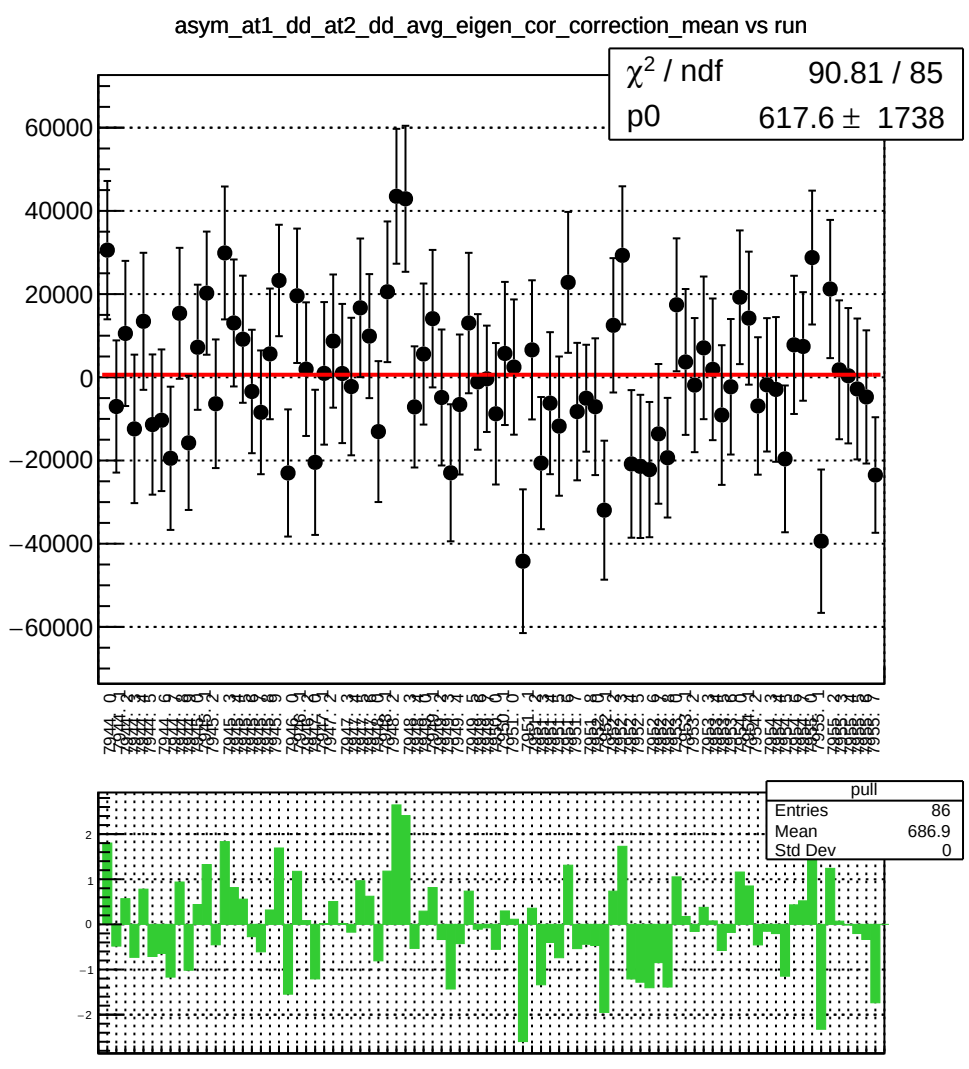

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 90.81 / 85
p0 617.6 ± 1738
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 686.9
Std Dev 0
2
1
0
−1
−2

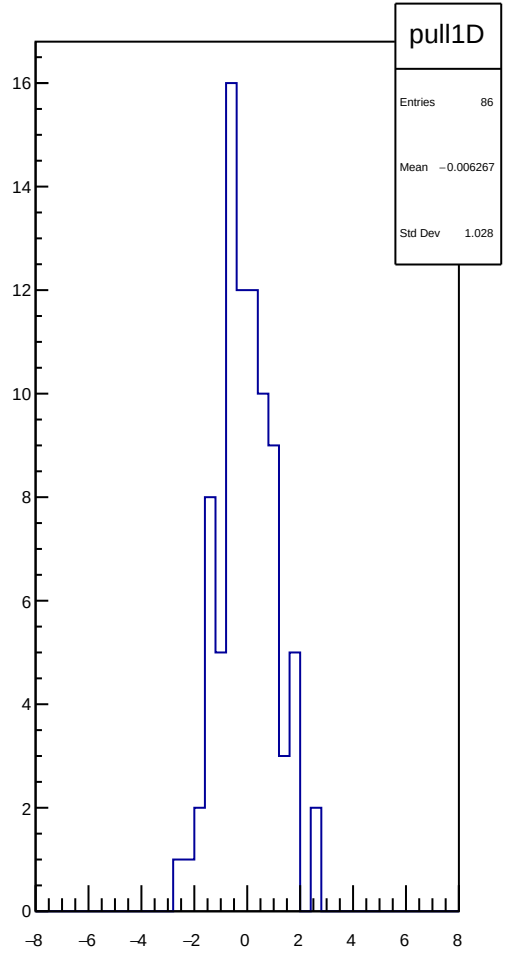

pull1D
Entries 86
Mean −0.006267
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

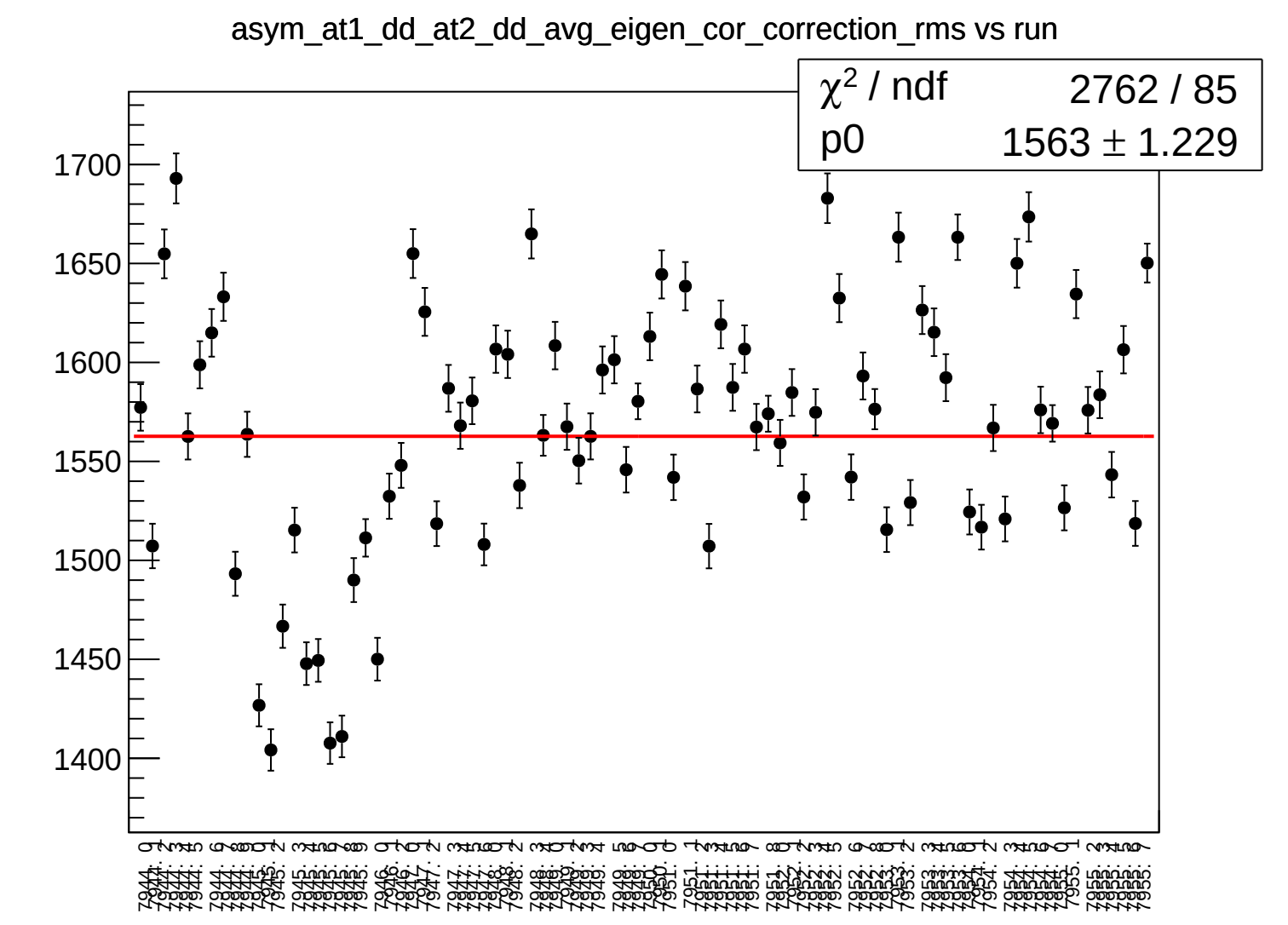

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 2762 / 85
p0 1563 ± 1.229
1700
1650
1600
1550
1500
1450
1400

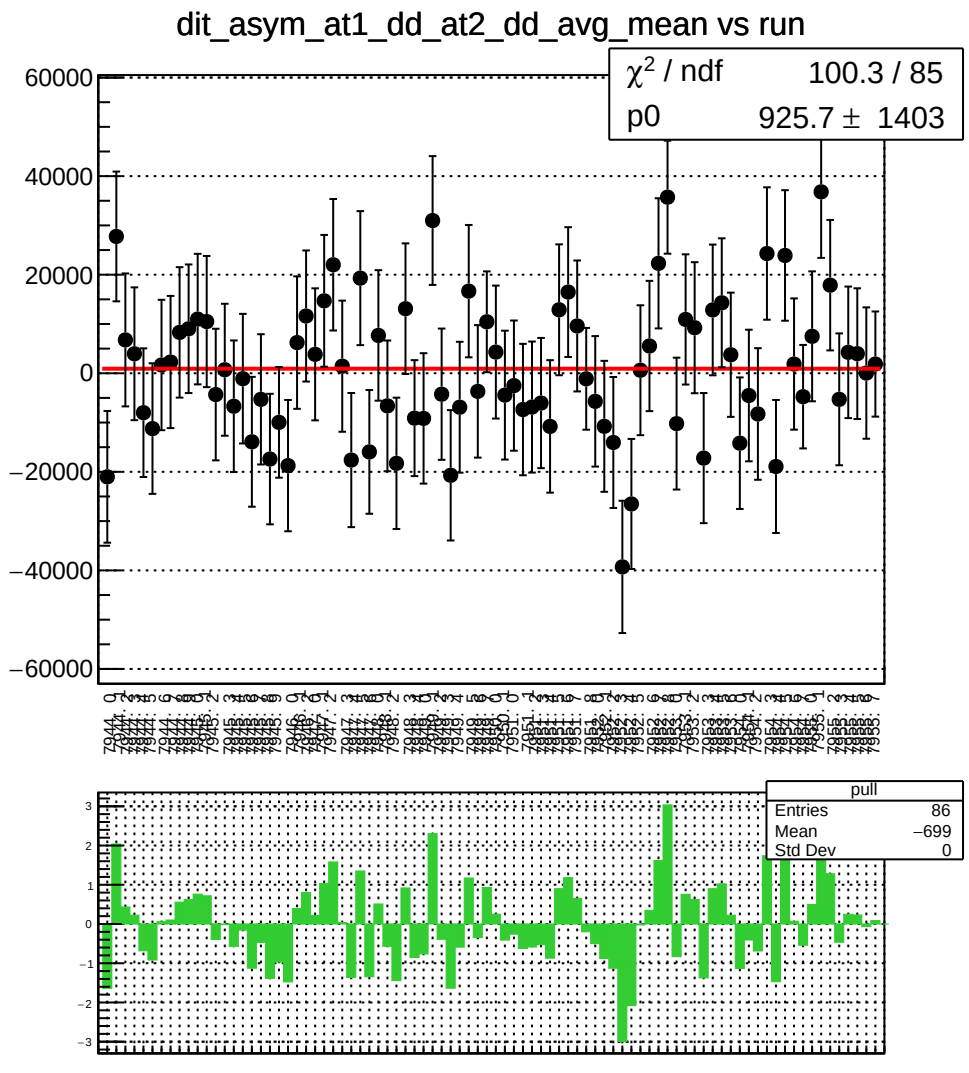

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 101.1 / 85
p0 1047 ± 1402
pull
Entries 86
Mean −780.9
Std Dev 0
pull1D
Entries 86
Mean −0.002954
Std Dev 1.084

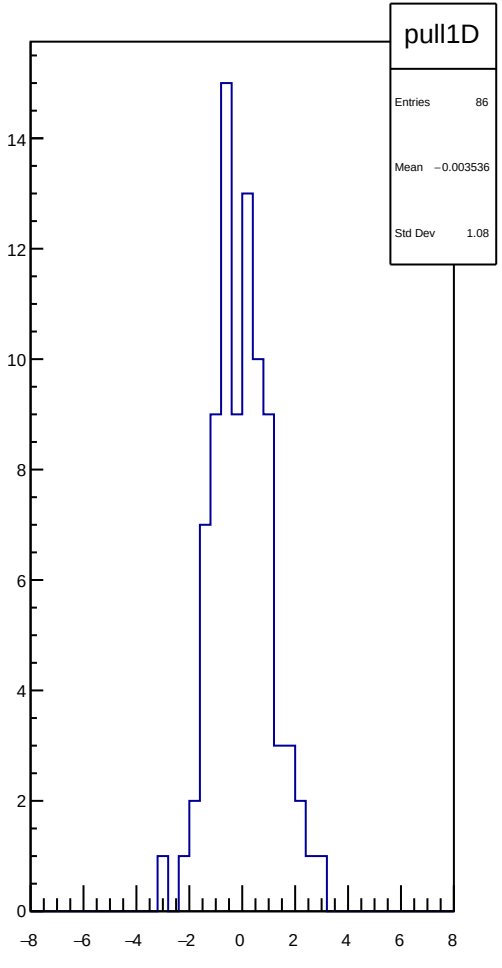

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 106.9 / 85
p0 1261 ± 0.9911
1300
1290
1280
1270
1260
1250
1240
1230
1220

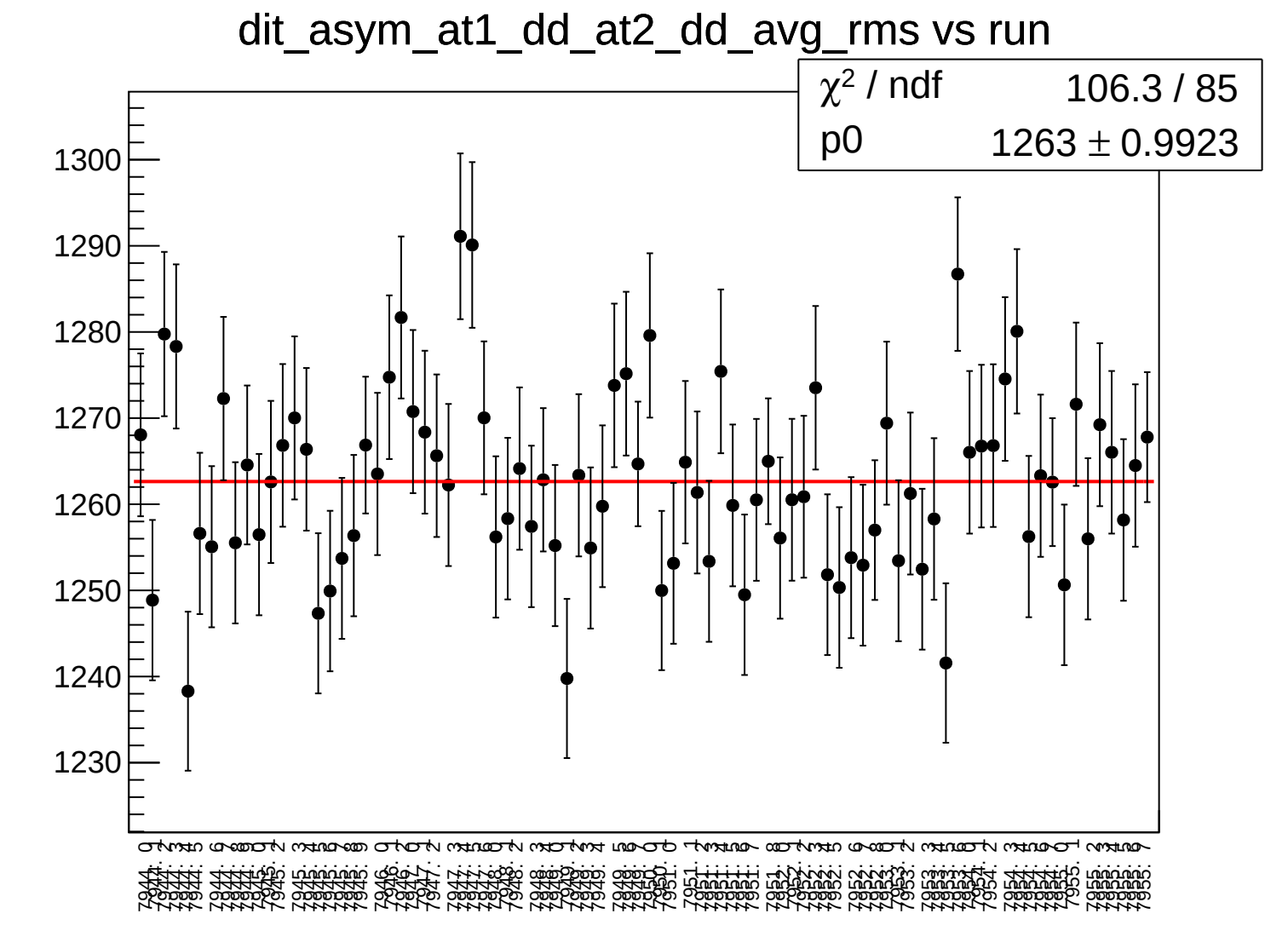

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.81 / 85
p0 617.6 ± 1738
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 686.9
Std Dev 0
2
1
0
−1
−2

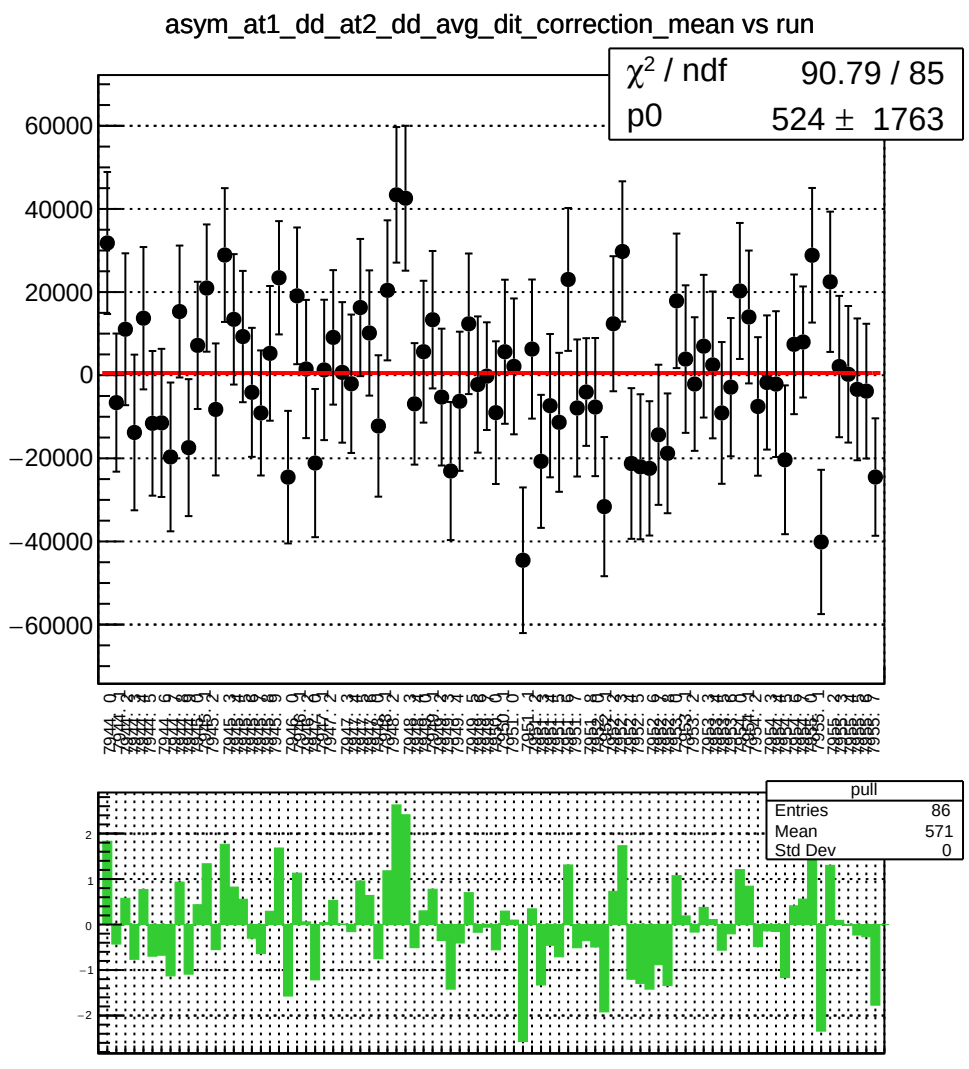

pull1D
Entries 86
Mean −0.006267
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

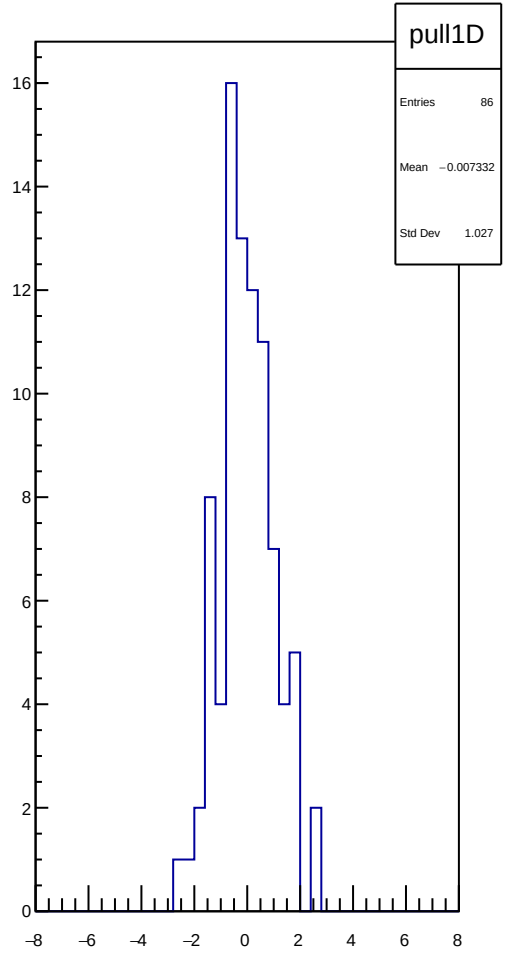

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2762 / 85
p0 1563 ± 1.229
1700
1650
1600
1550
1500
1450
1400

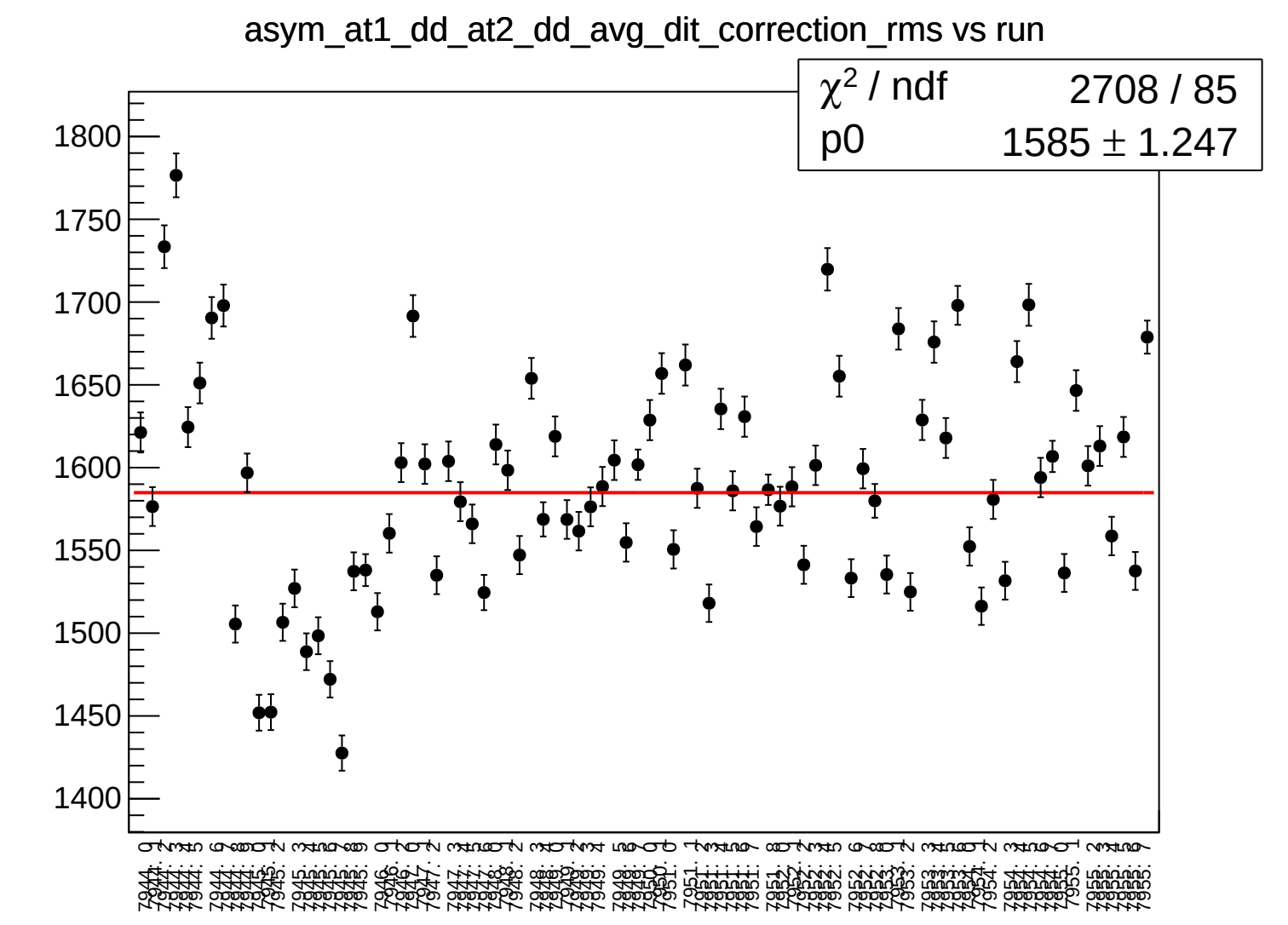

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 100.3 / 85
p0 925.7 ± 1403
pull
Entries 86
Mean −699
Std Dev 0

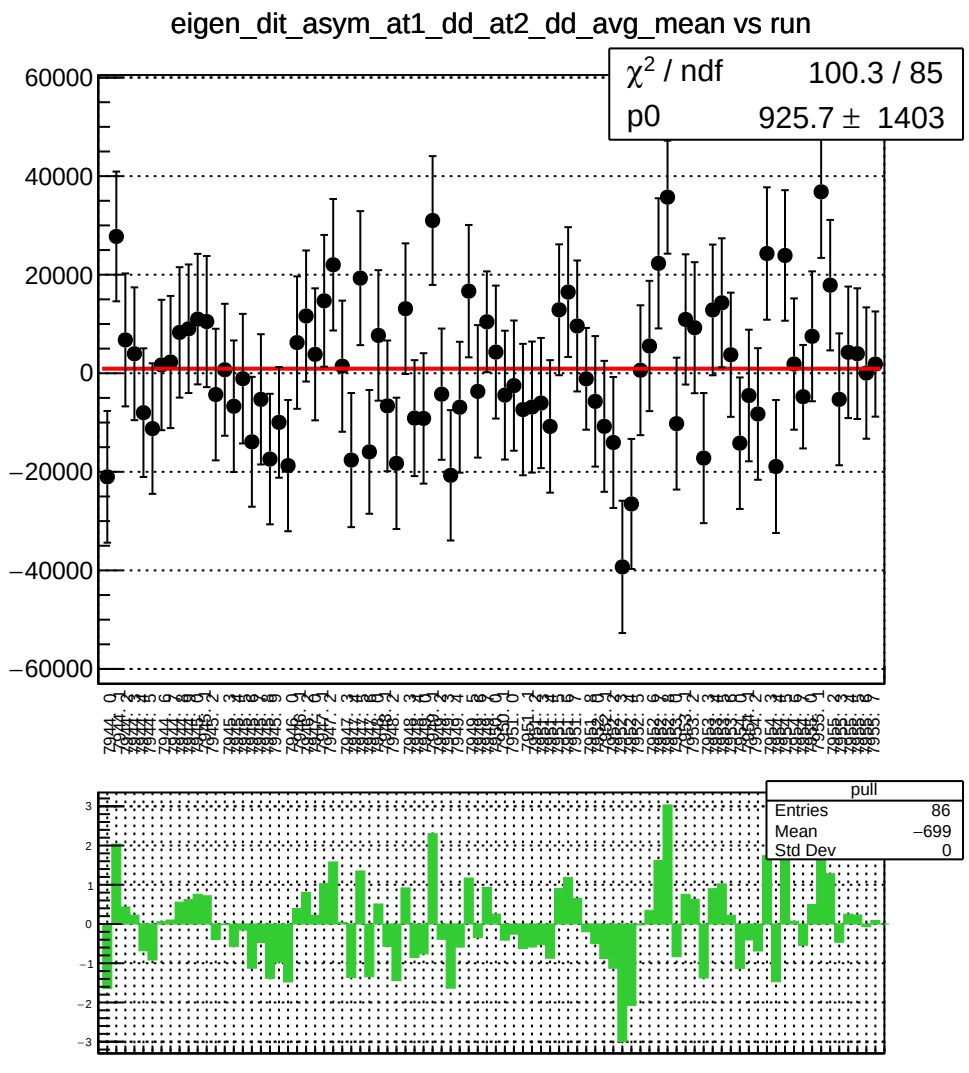

pull1D
Entries 86
Mean −0.003536
Std Dev 1.08

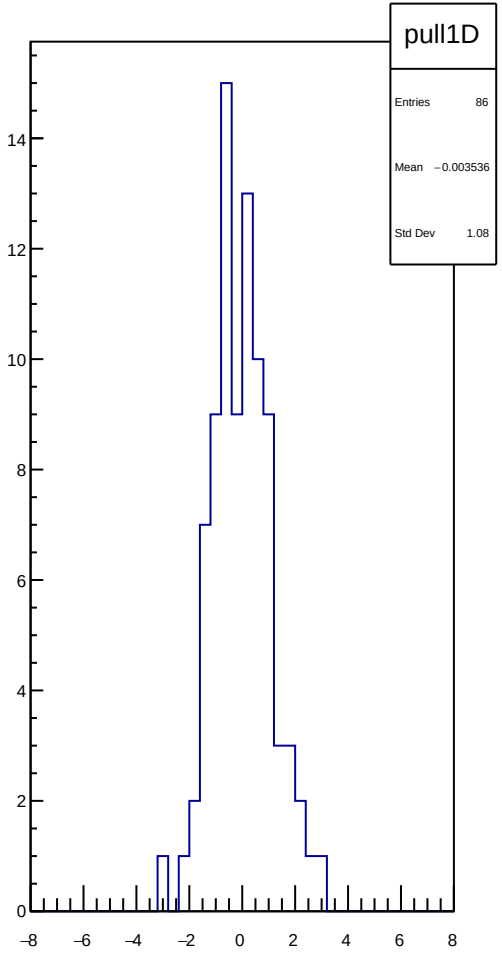

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 106.3 / 85
p0 1263 ± 0.9923
1300
1290
1280
1270
1260
1250
1240
1230

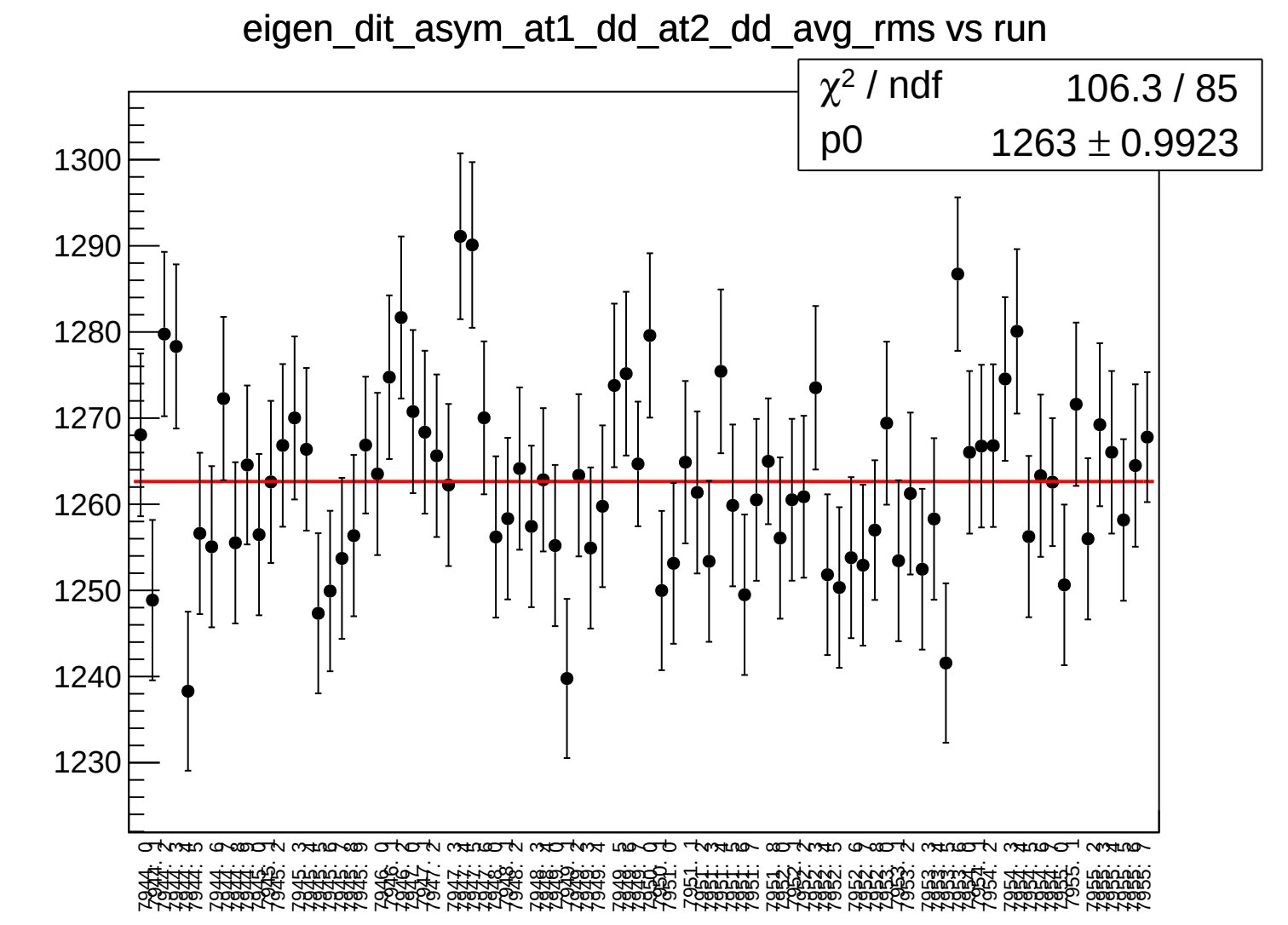

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 90.79 / 85
p0 524 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 571
Std Dev 0
2
1
0
−1
−2

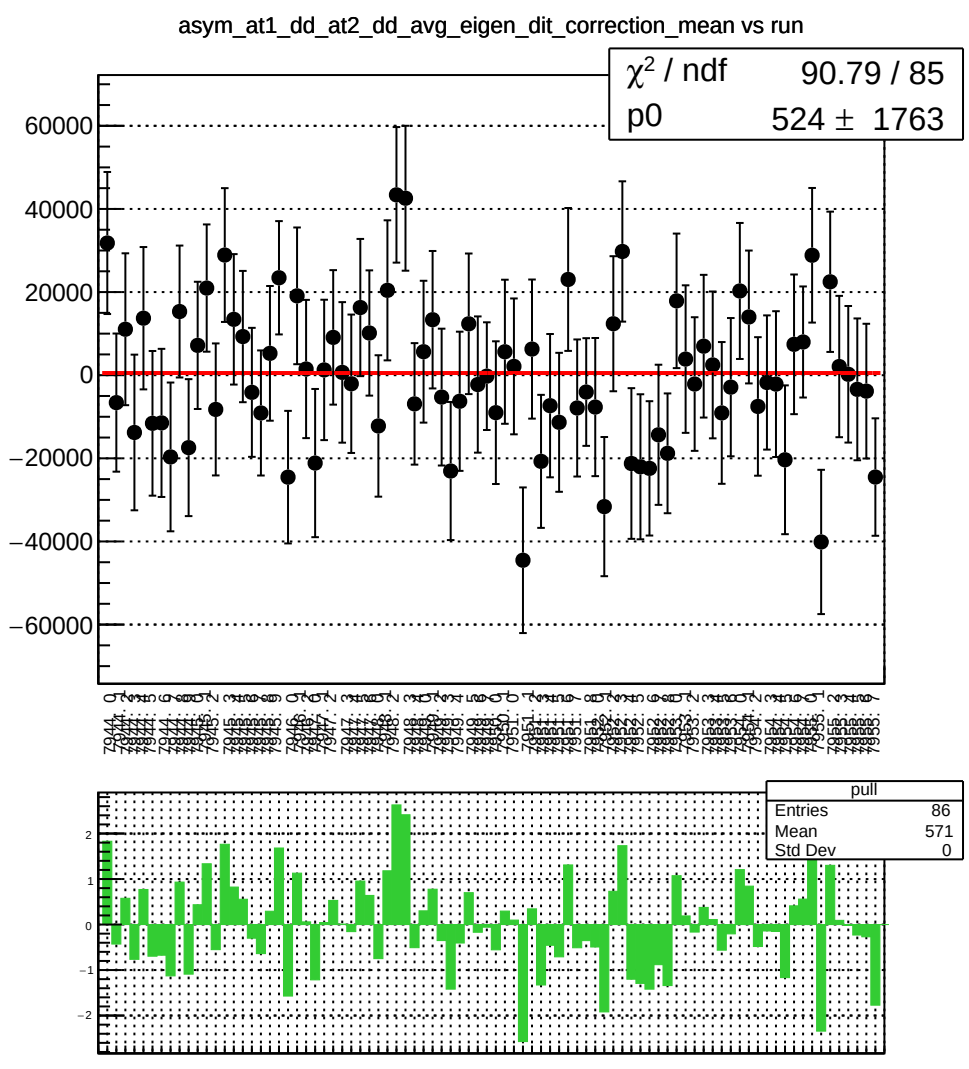

pull1D
Entries 86
Mean −0.007332
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

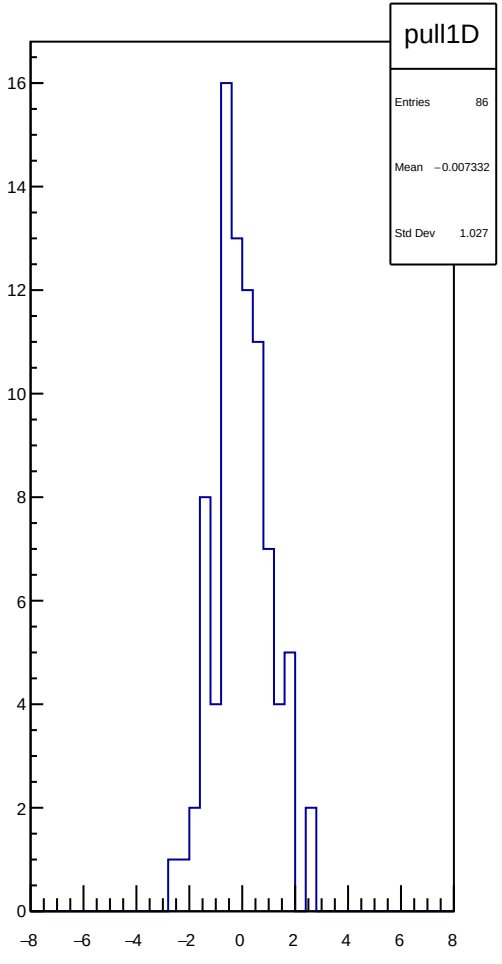

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2708 / 85
p0 1585 ± 1.247
1800
1750
1700
1650
1600
1550
1500
1450
1400

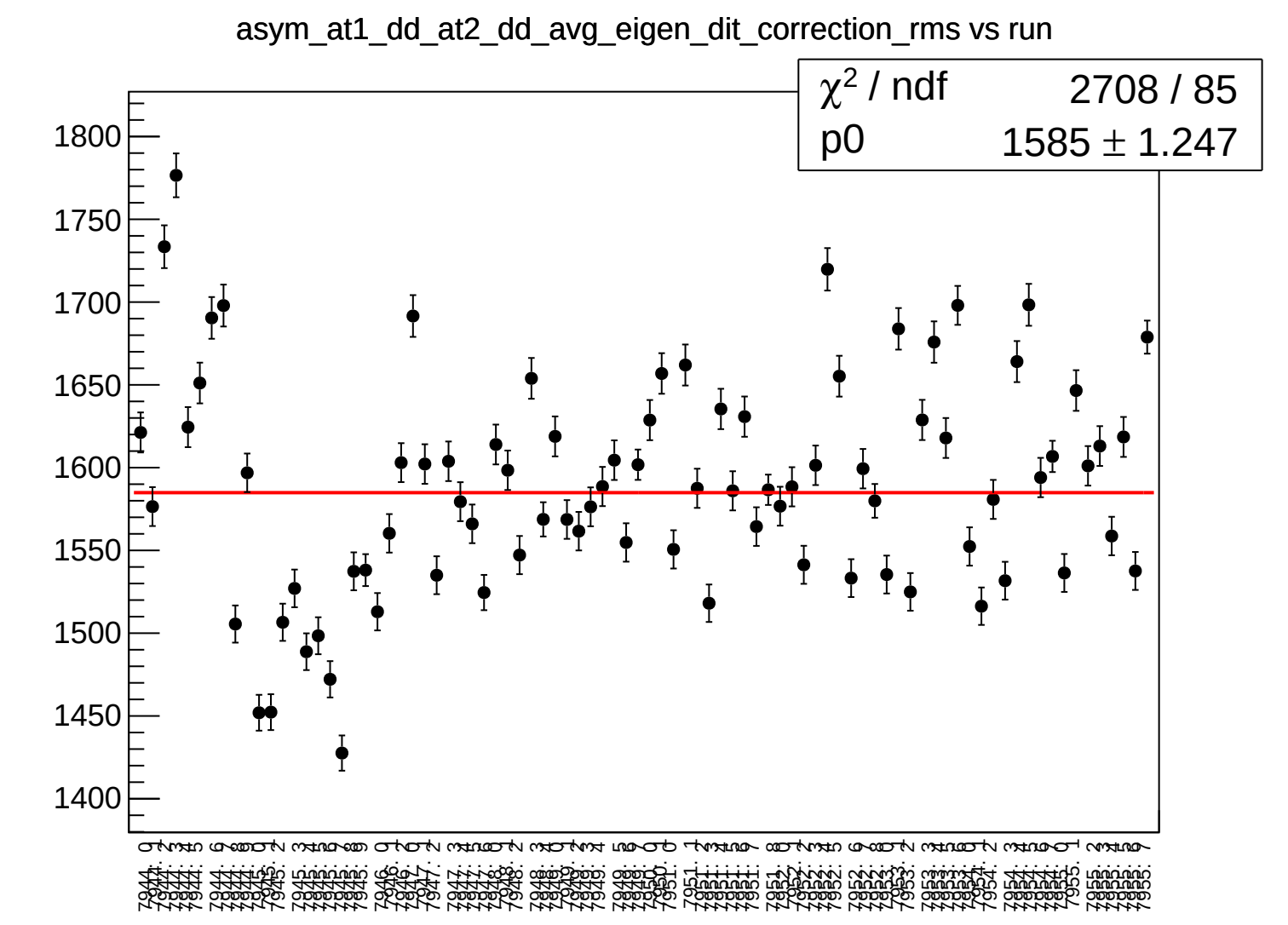

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 100.3 / 85
p0 925.7 ± 1403
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −699
Std Dev 0
3
2
1
0
−1
−2
−3

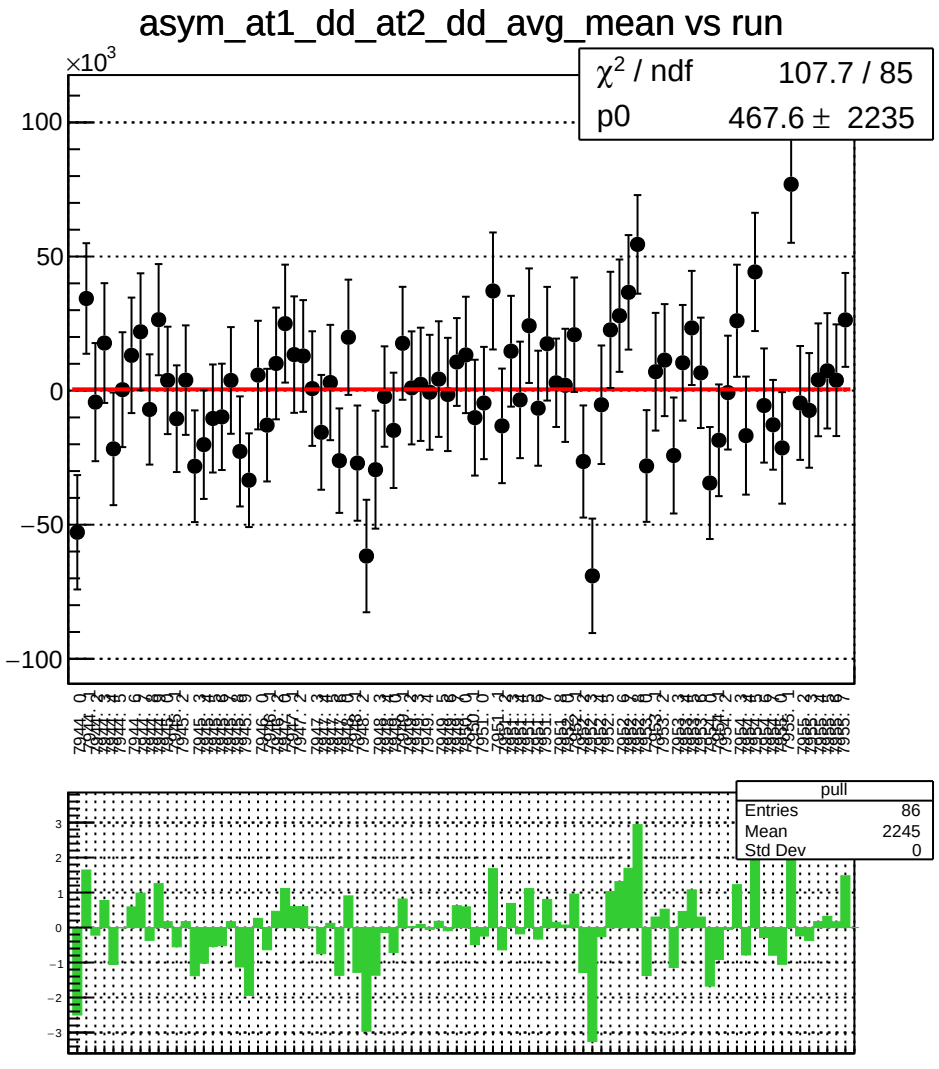

pull1D
Entries 86
Mean −0.003536
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

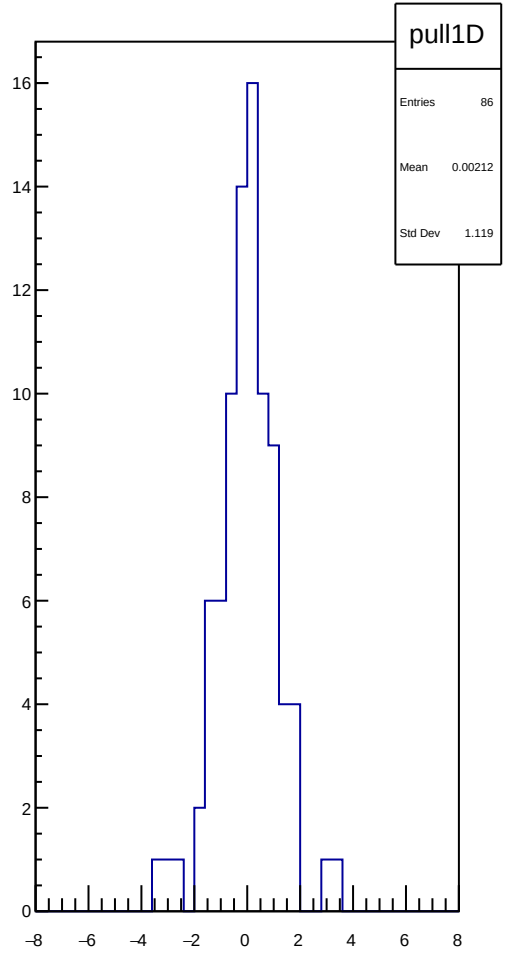

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 106.3 / 85
p0 1263 ± 0.9923
1300
1290
1280
1270
1260
1250
1240
1230

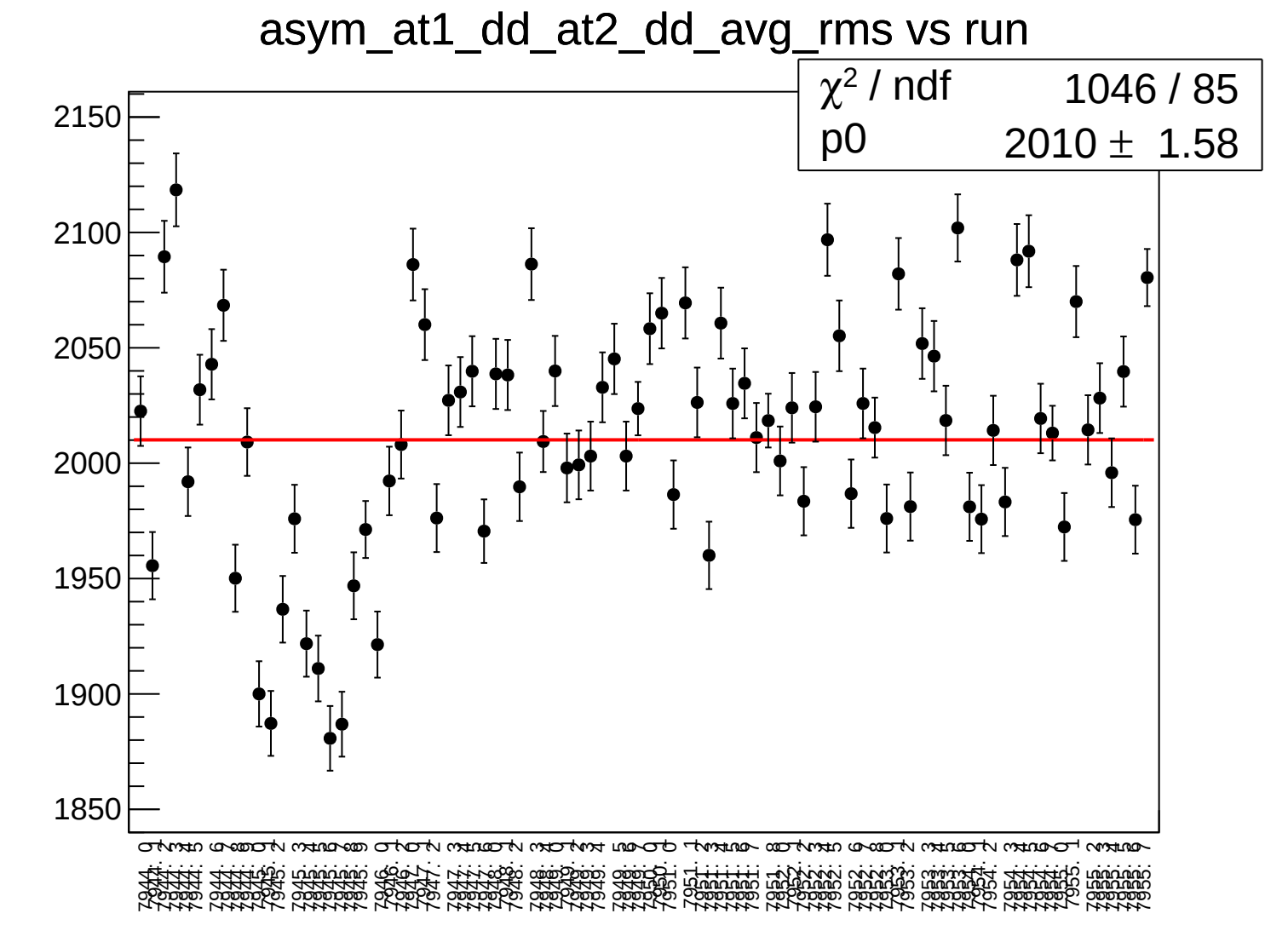

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.79 / 85
p0 524 ± 1763
pull
Entries 86
Mean 571
Std Dev 0

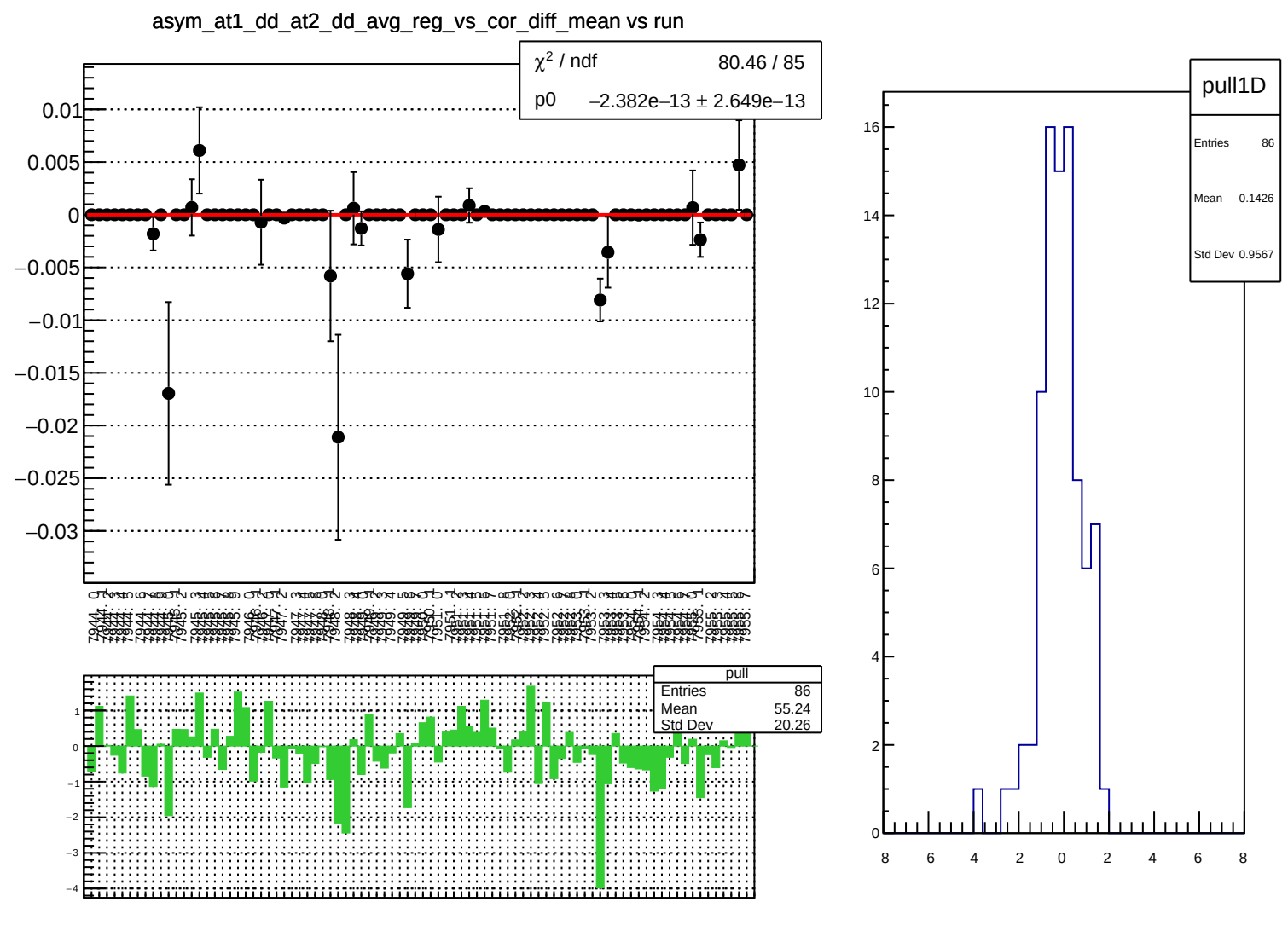

pull1D
Entries 86
Mean −0.007332
Std Dev 1.027

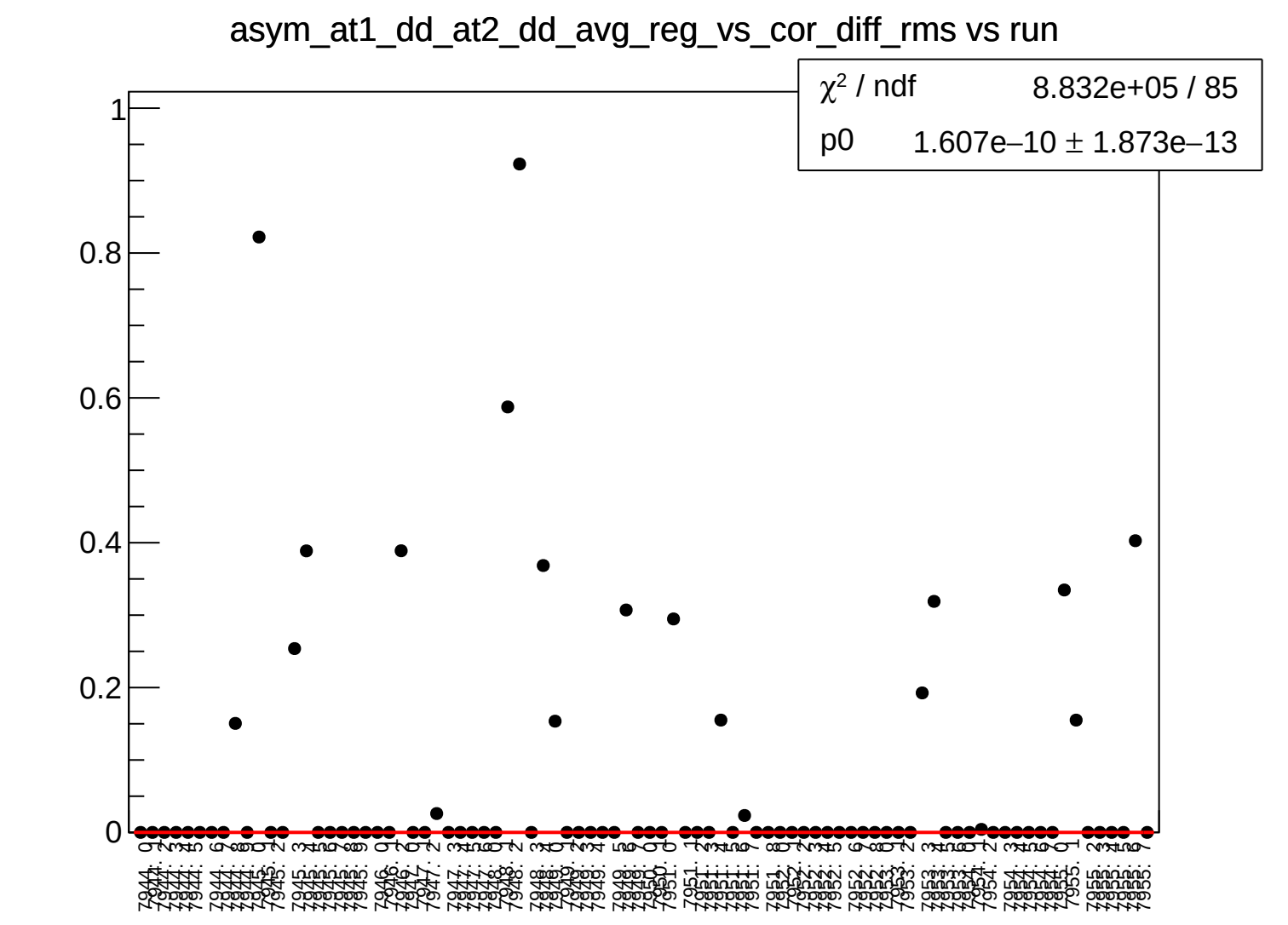

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2708 / 85
p0 1585 ± 1.247
1800
1750
1700
1650
1600
1550
1500
1450
1400

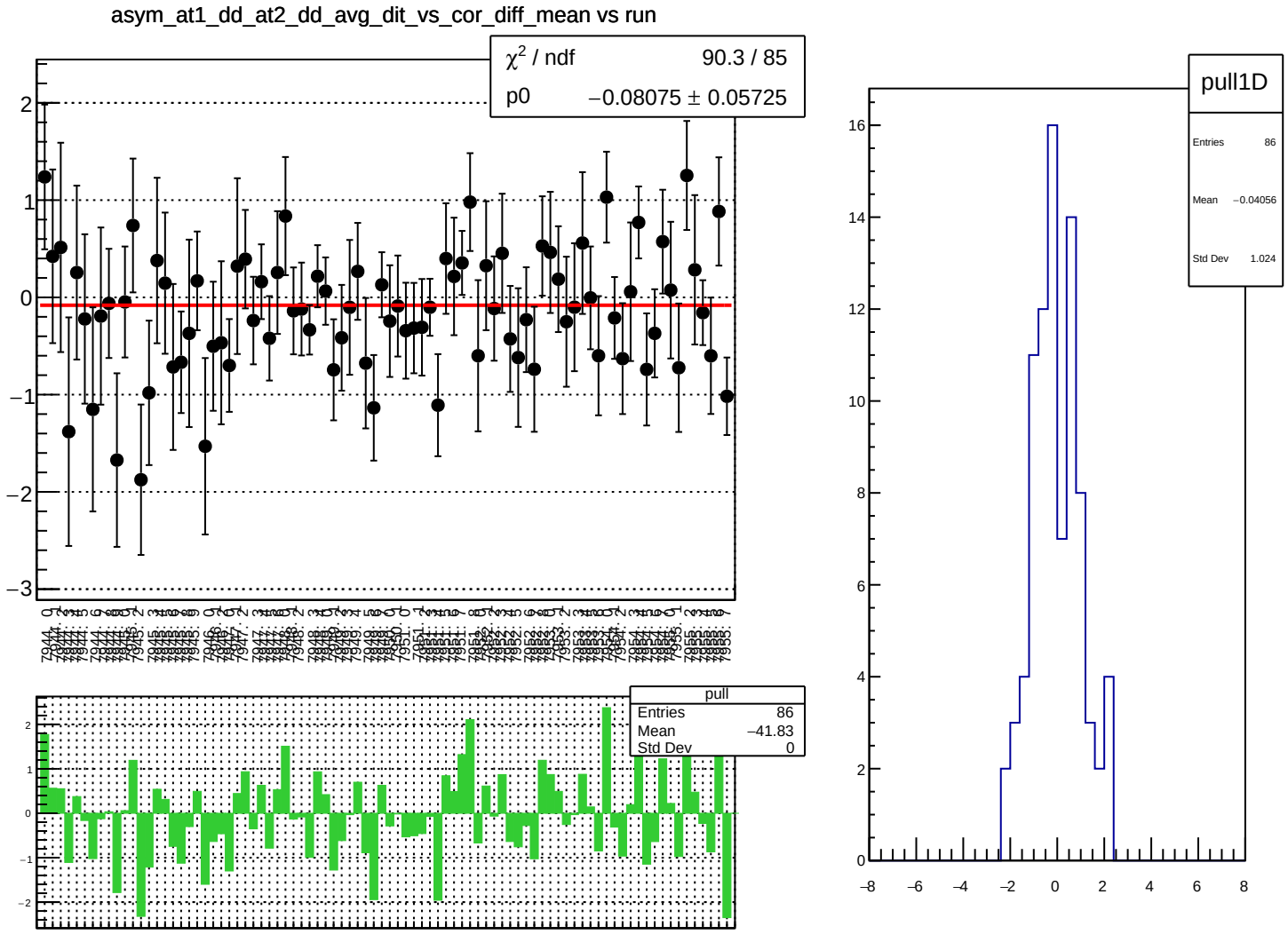

asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 107.7 / 85
p0 467.6 ± 2235
100
50
0
−50
−100
pull
Entries 86
Mean 2245
Std Dev 0
3
2
1
0
−1
−2
−3

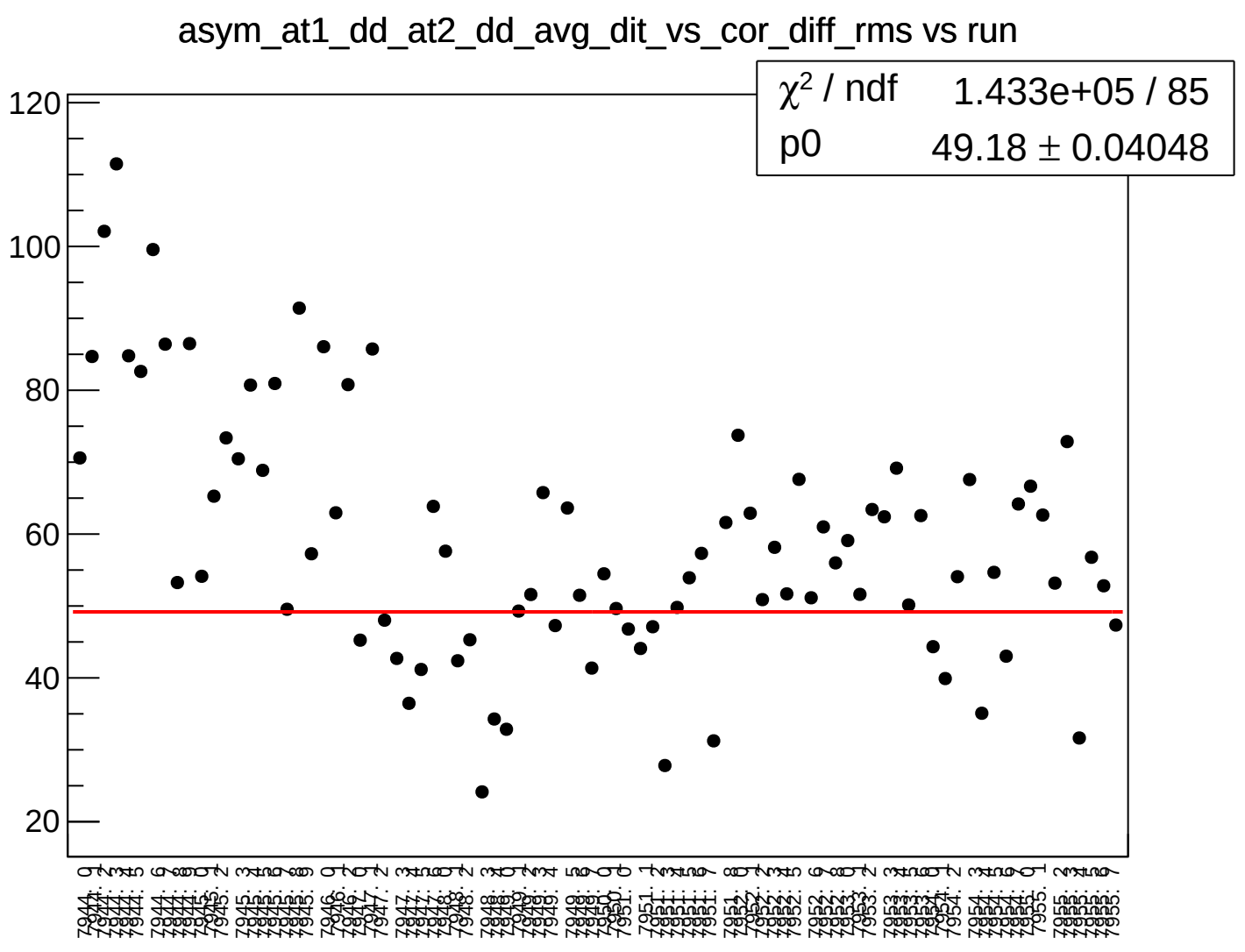

pull1D
Entries 86
Mean 0.00212
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

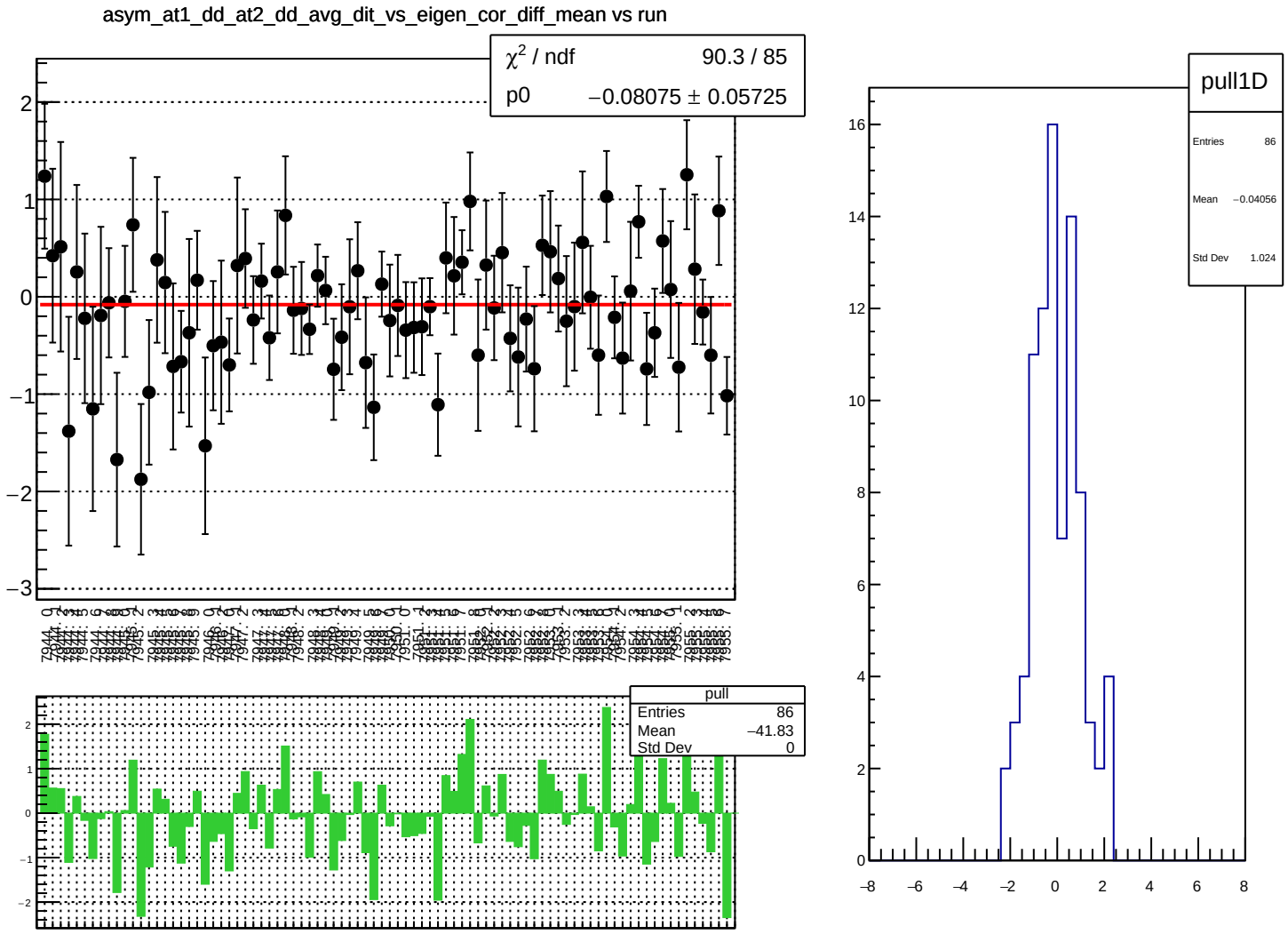

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1046 / 85
p0 2010 ± 1.58
2150
2100
2050
2000
1950
1900
1850

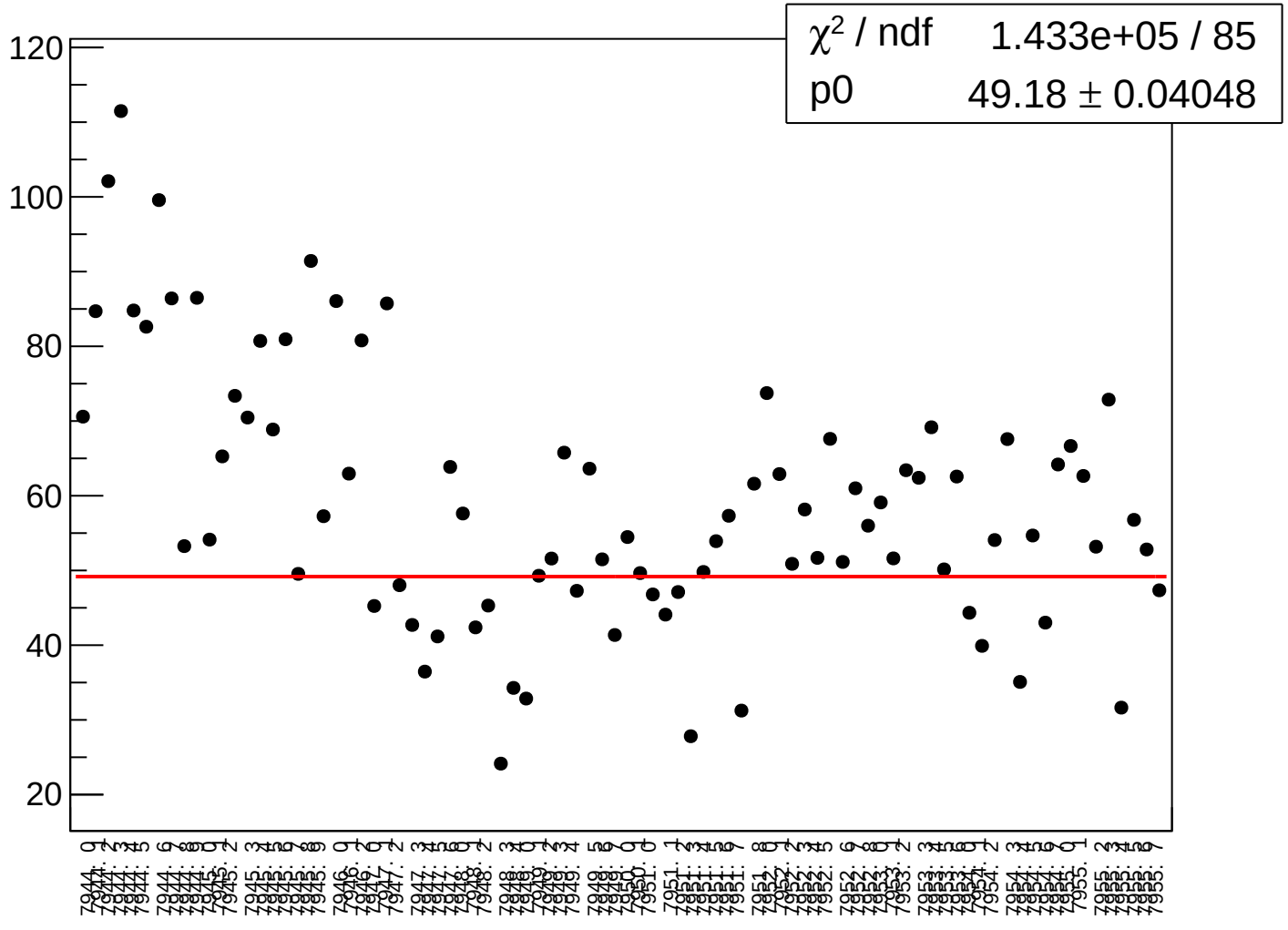

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.46 / 85
p0 −2.382e−13 ± 2.649e−13
pull
Entries 86
Mean 55.24
Std Dev 20.26
pull1D
Entries 86
Mean −0.1426
Std Dev 0.9567

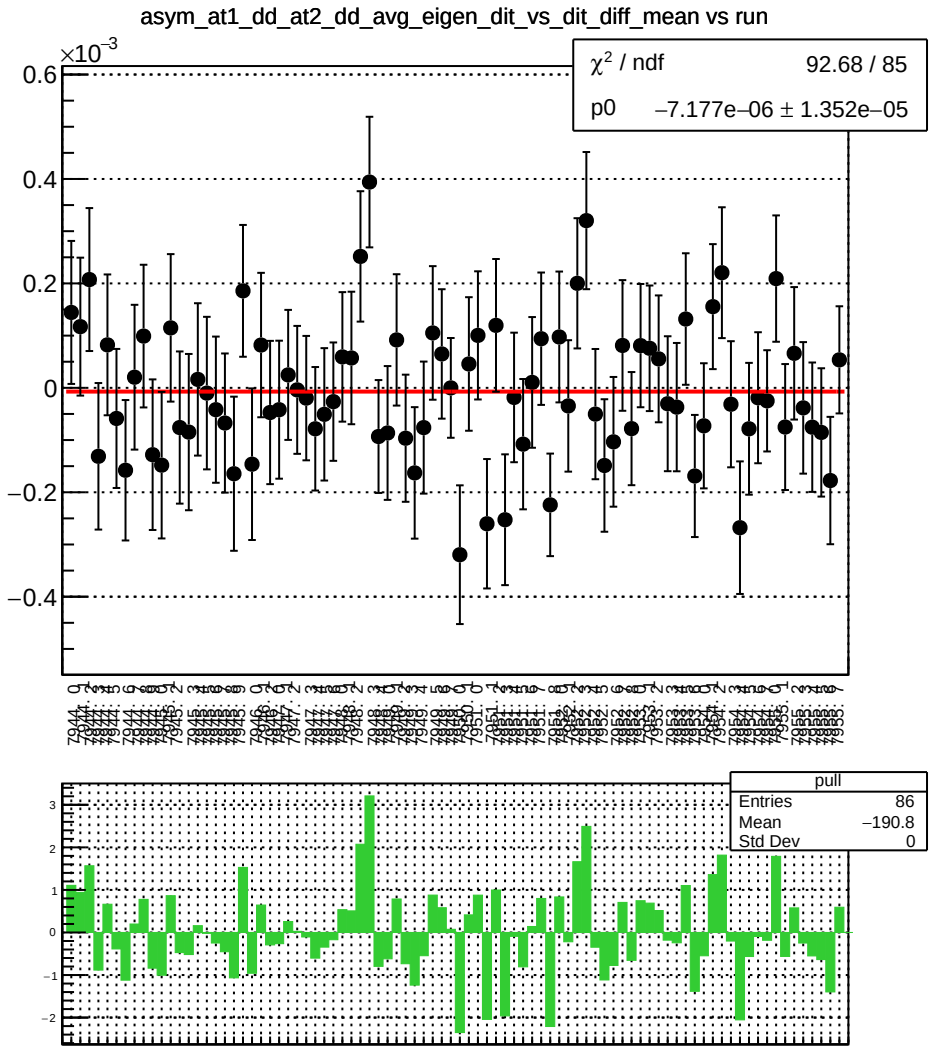

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.832e+05 / 85
p0 1.607e−10 ± 1.873e−13
1
0.8
0.6
0.4
0.2
0

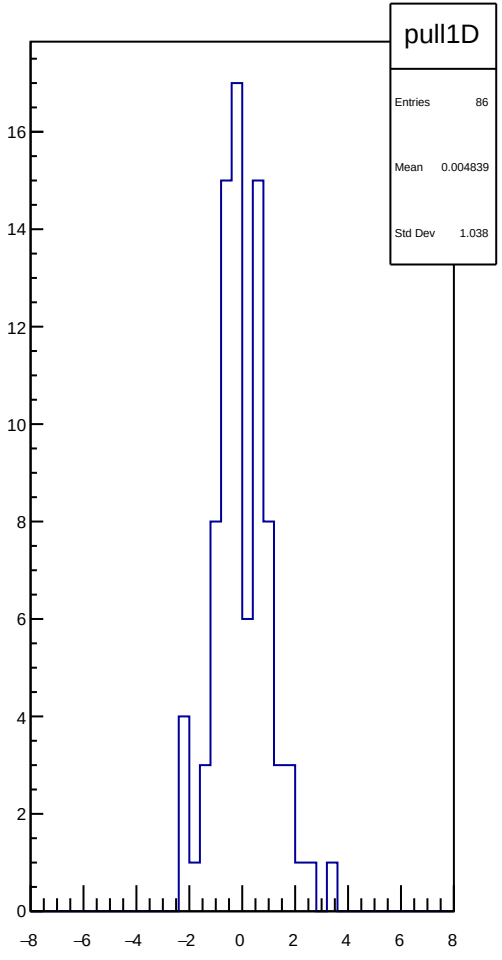

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.3 / 85
p0 −0.08075 ± 0.05725
pull
Entries 86
Mean −41.83
Std Dev 0
pull1D
Entries 86
Mean −0.04056
Std Dev 1.024

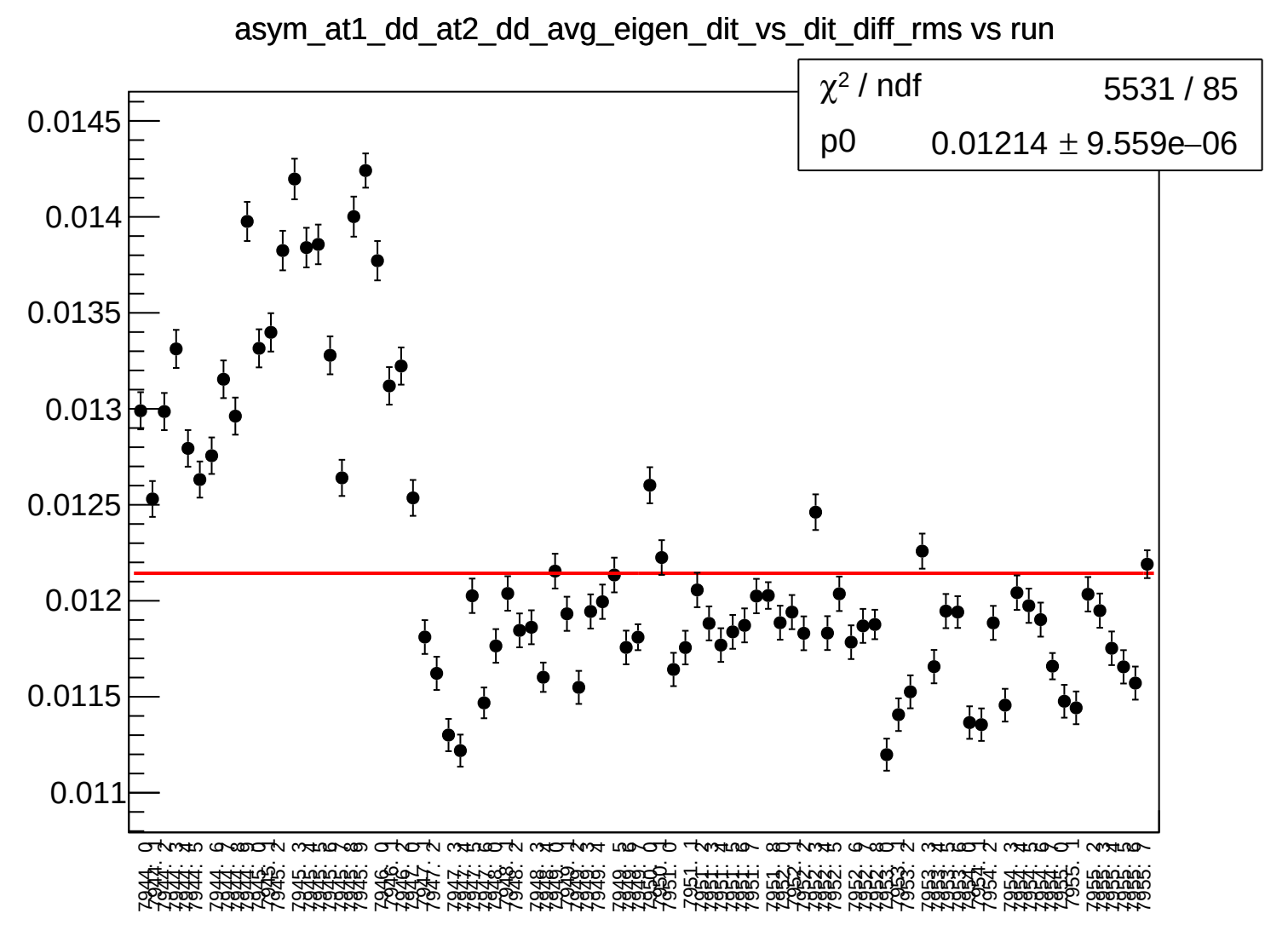

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.433e+05 / 85
p0 49.18 ± 0.04048
120
100
80
60
40
20

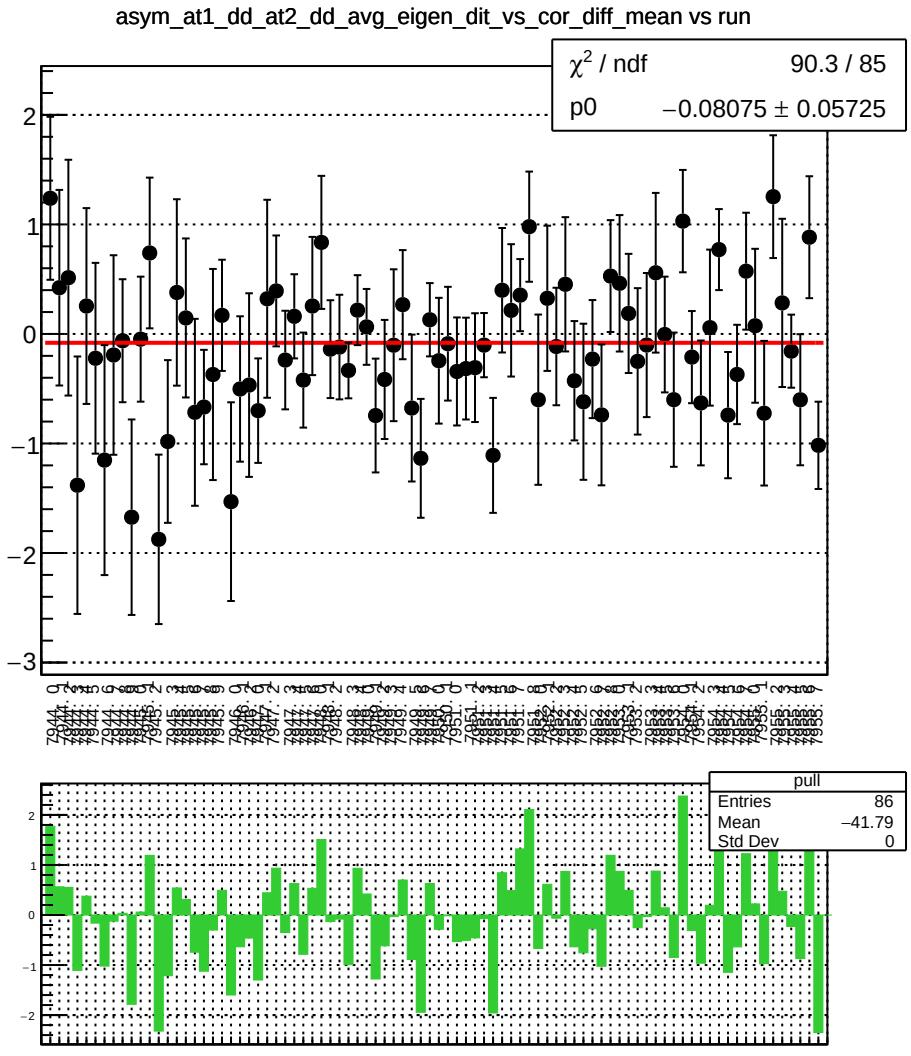

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.3 / 85
p0 −0.08075 ± 0.05725
pull
Entries 86
Mean −41.83
Std Dev 0
pull1D
Entries 86
Mean −0.04056
Std Dev 1.024

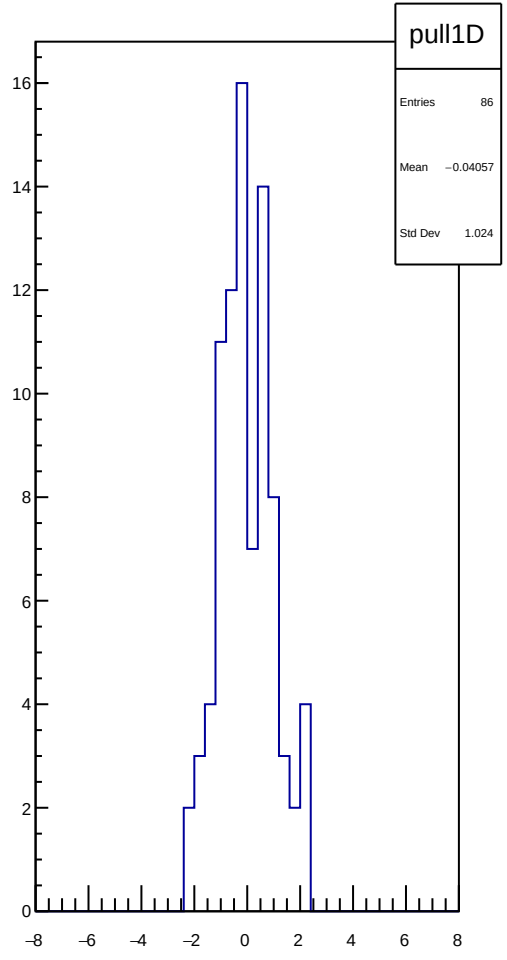

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.433e+05 / 85
p0 49.18 ± 0.04048
120
100
80
60
40
20

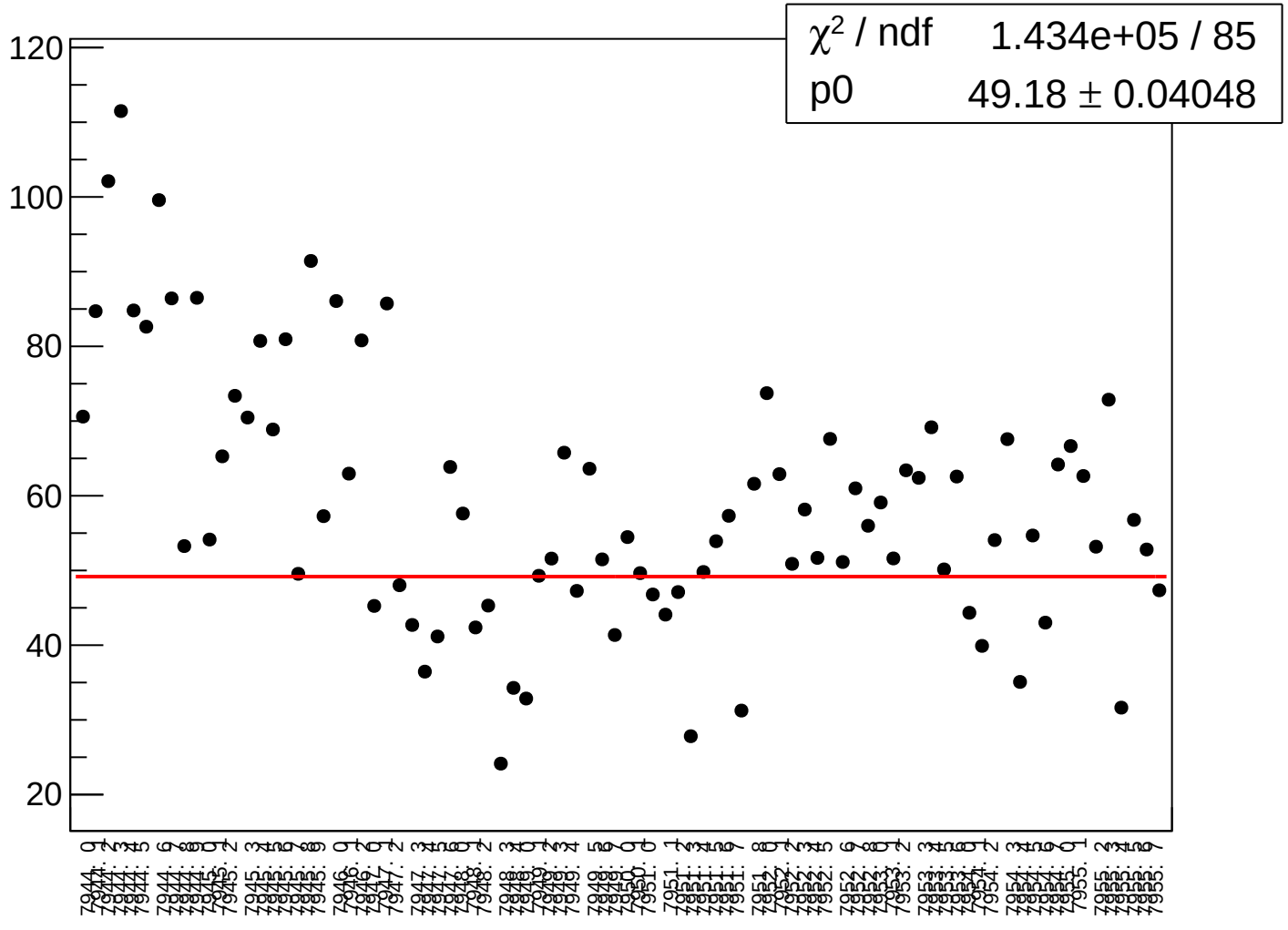

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 92.68 / 85
p0 −7.177e−06 ± 1.352e−05
pull
Entries 86
Mean −190.8
Std Dev 0

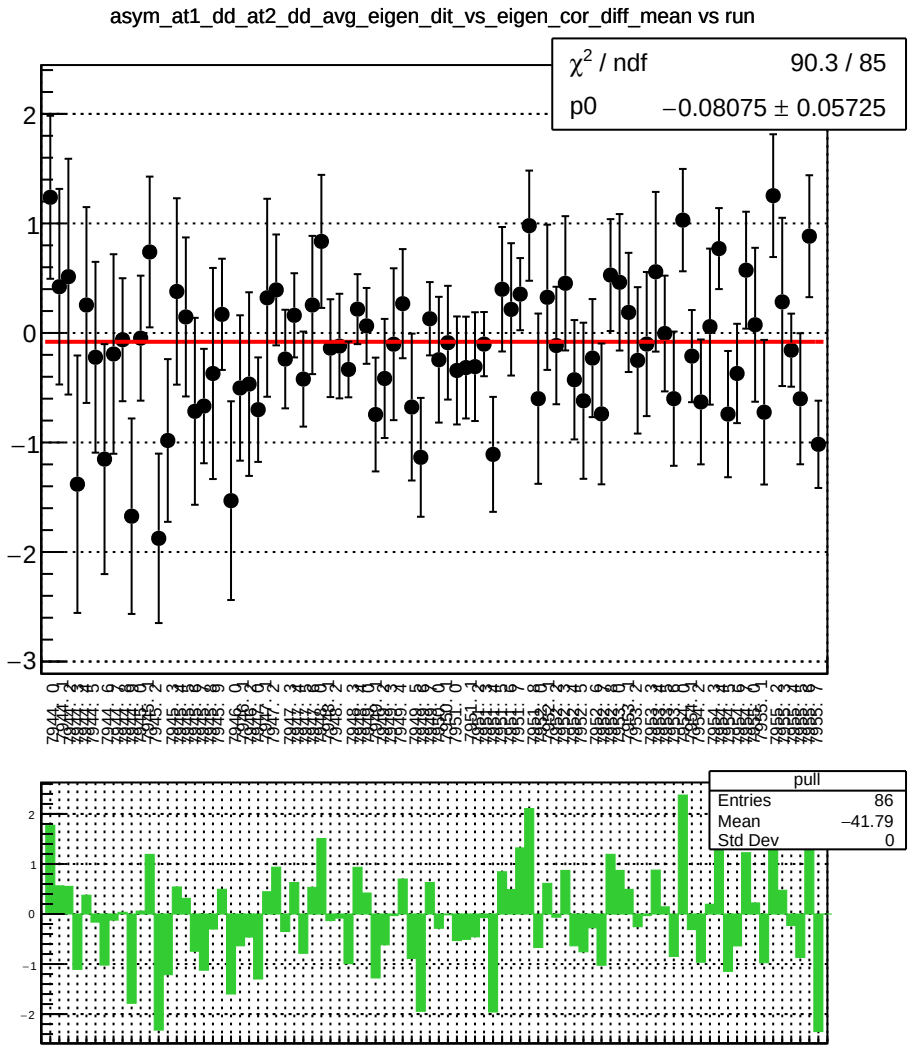

pull1D
Entries 86
Mean 0.004839
Std Dev 1.038

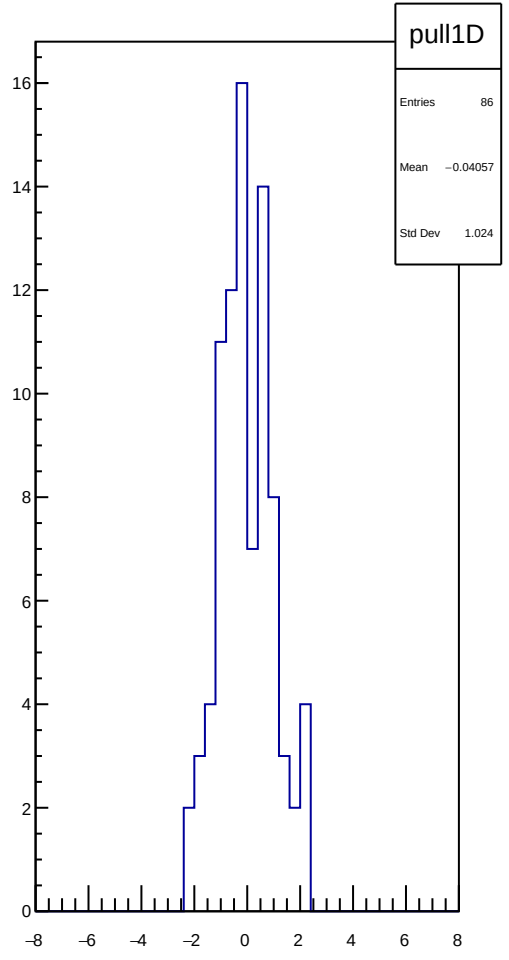

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5531 / 85
p0 0.01214 ± 9.559e−06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011

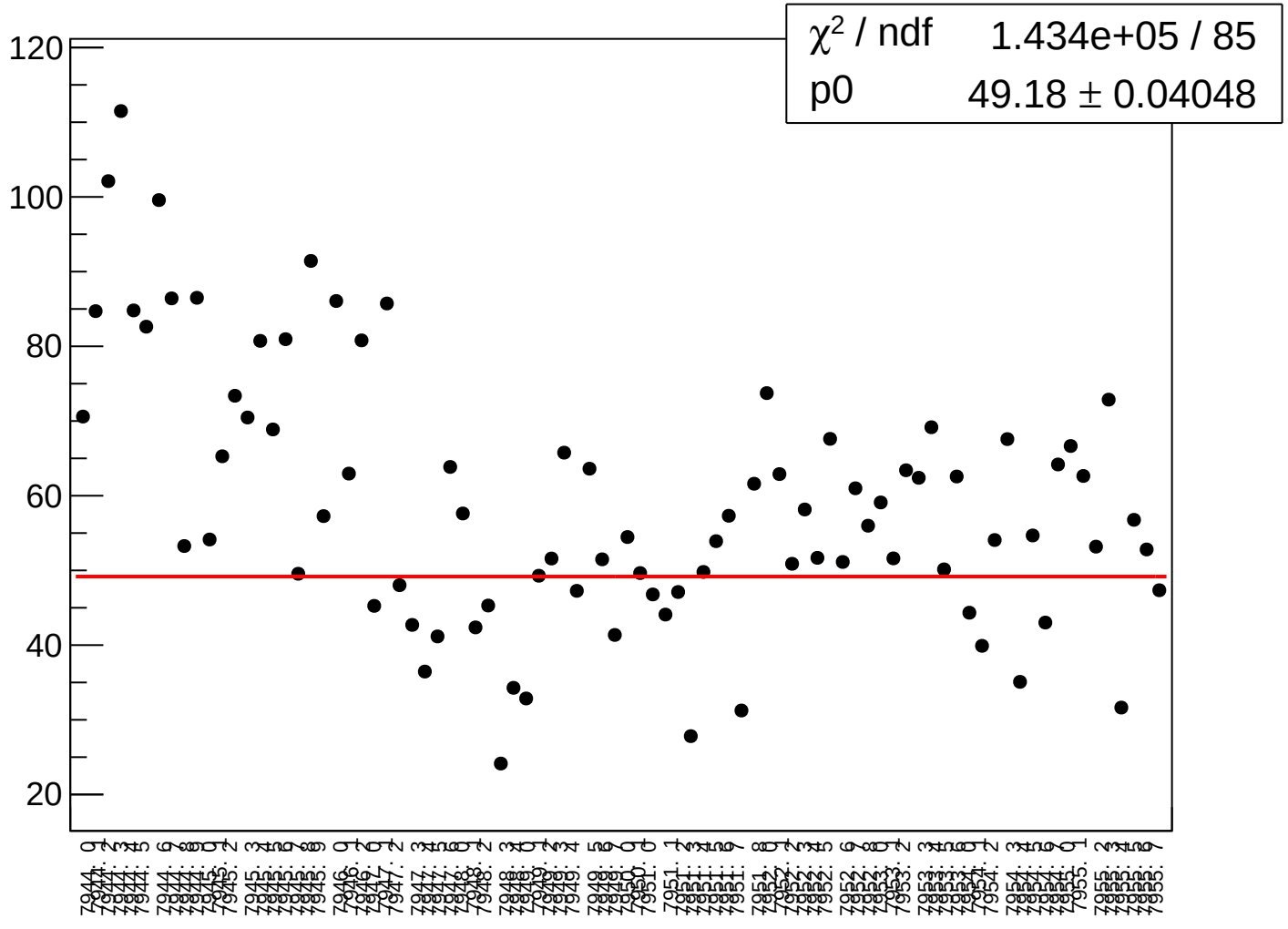

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.3 / 85
p0 −0.08075 ± 0.05725
pull
Entries 86
Mean −41.79
Std Dev 0

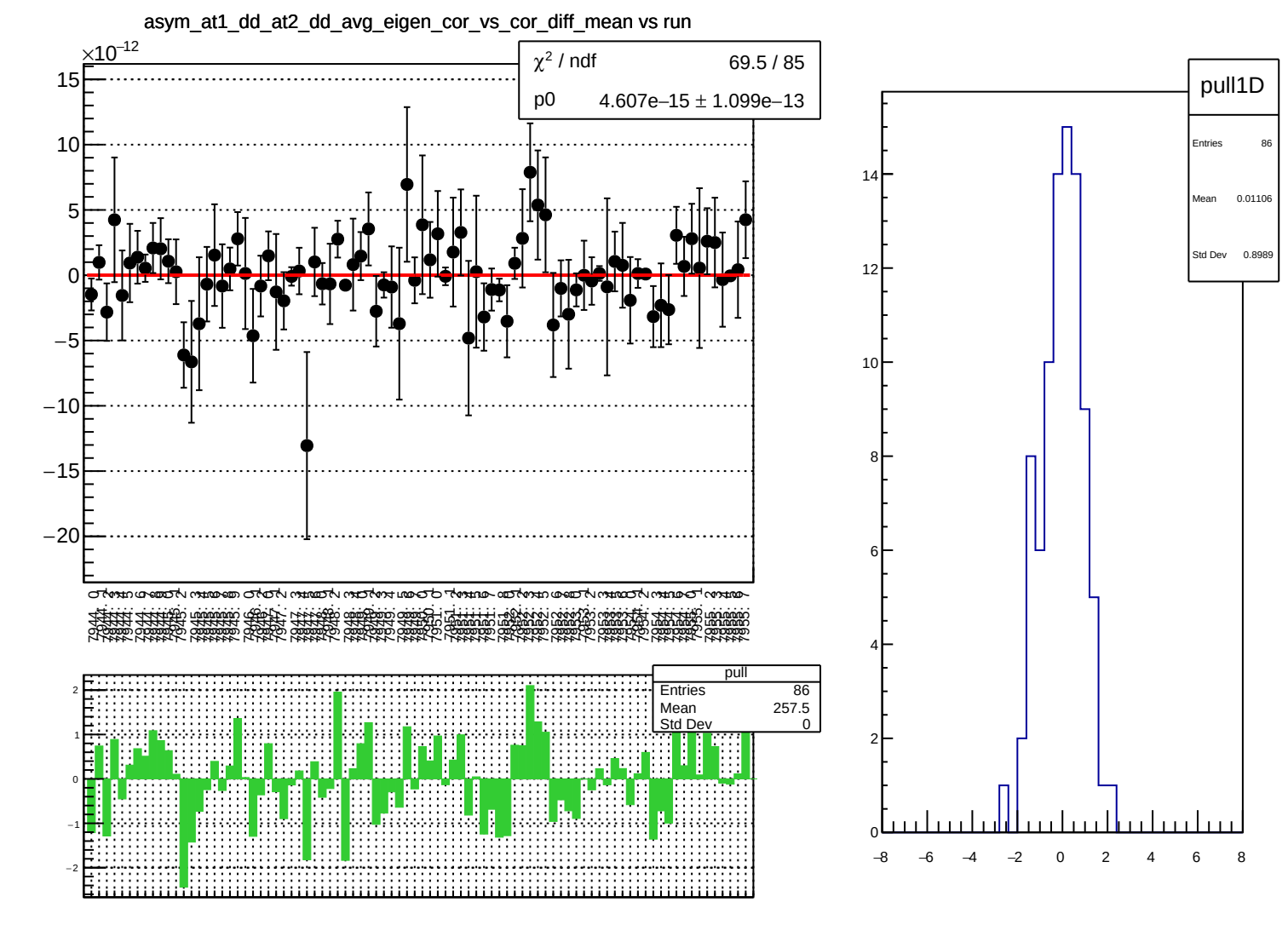

pull1D
Entries 86
Mean −0.04057
Std Dev 1.024

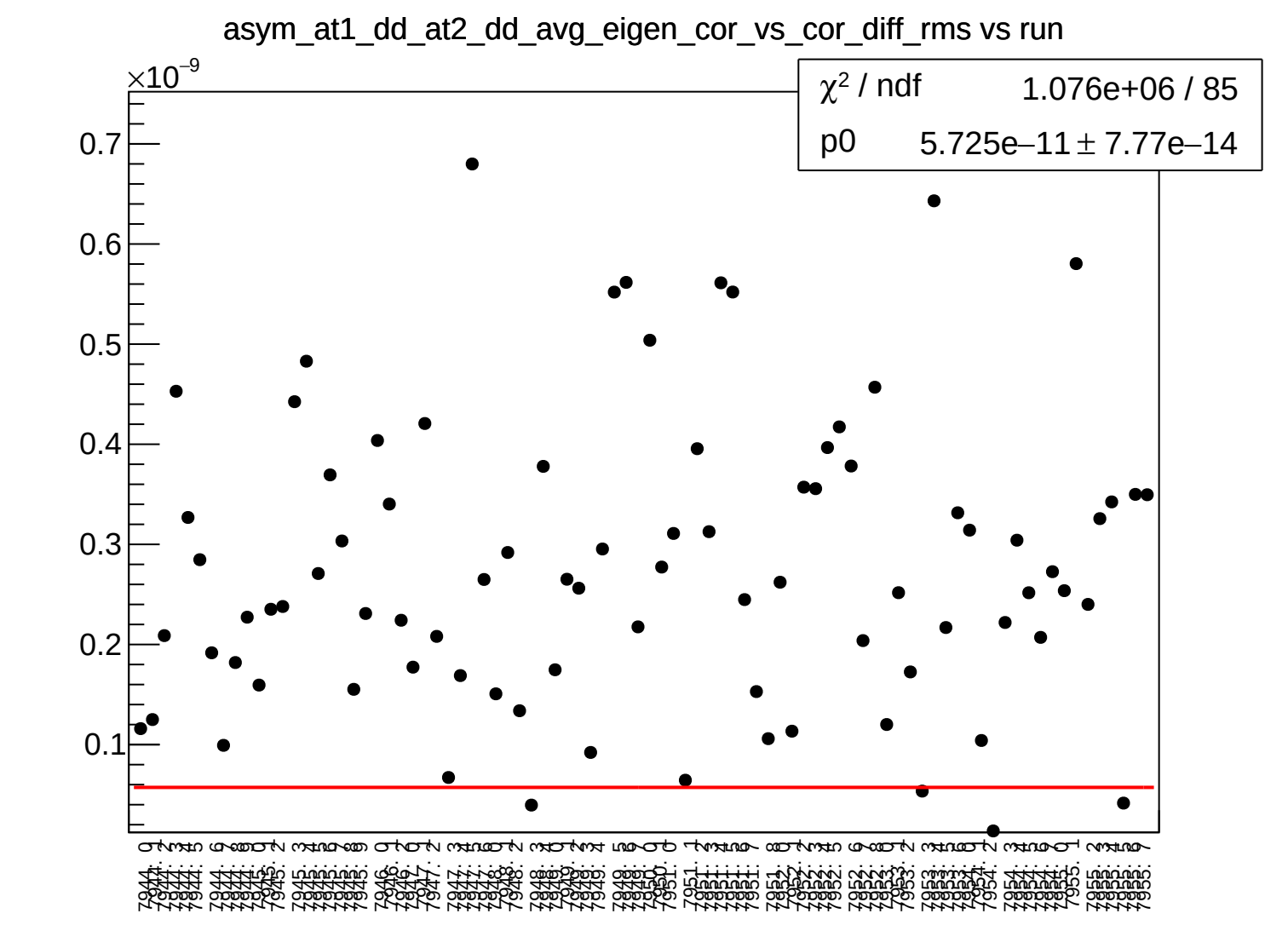

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.434e+05 / 85
p0 49.18 ± 0.04048
120
100
80
60
40
20

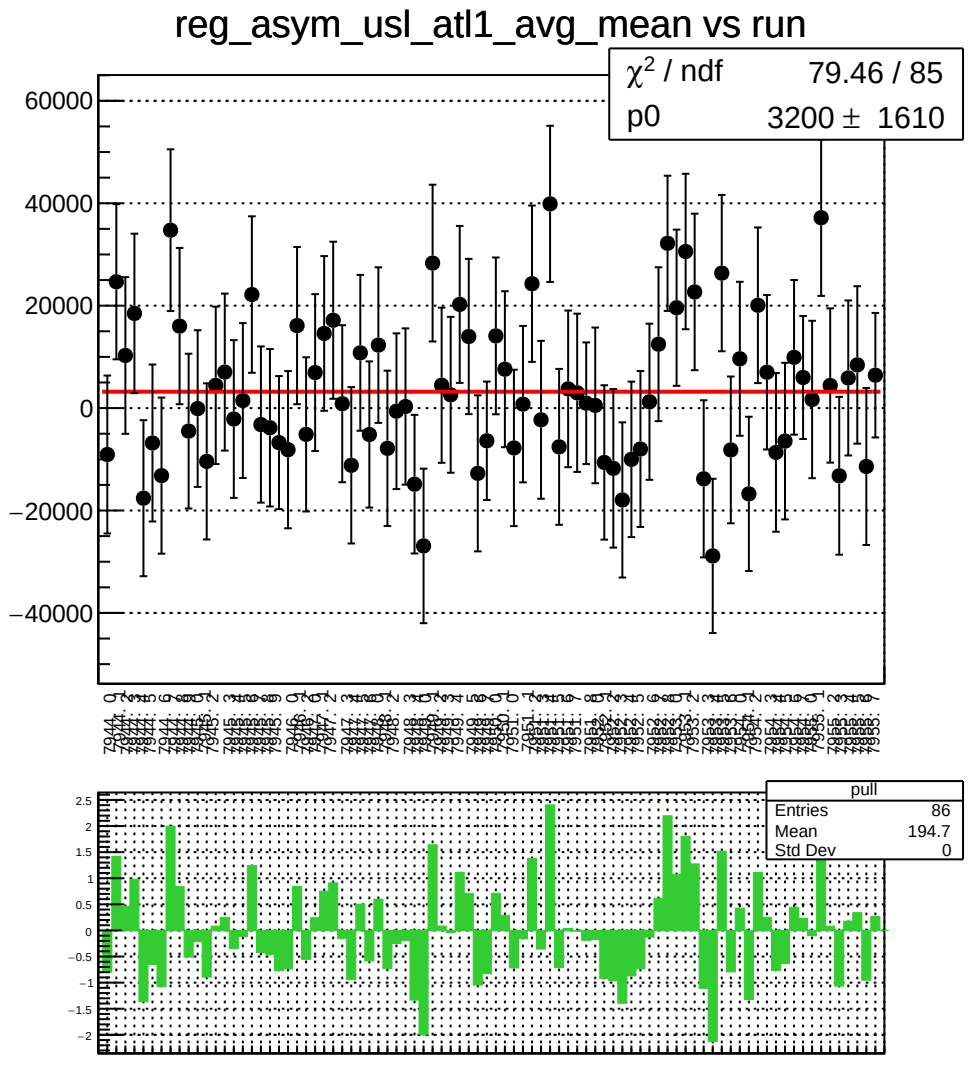

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.3 / 85
p0 −0.08075 ± 0.05725
pull
Entries 86
Mean −41.79
Std Dev 0

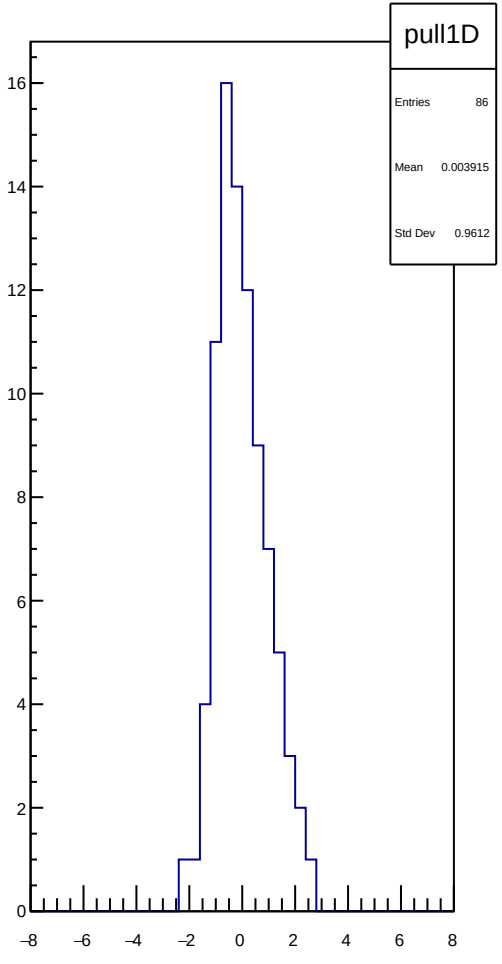

pull1D
Entries 86
Mean −0.04057
Std Dev 1.024

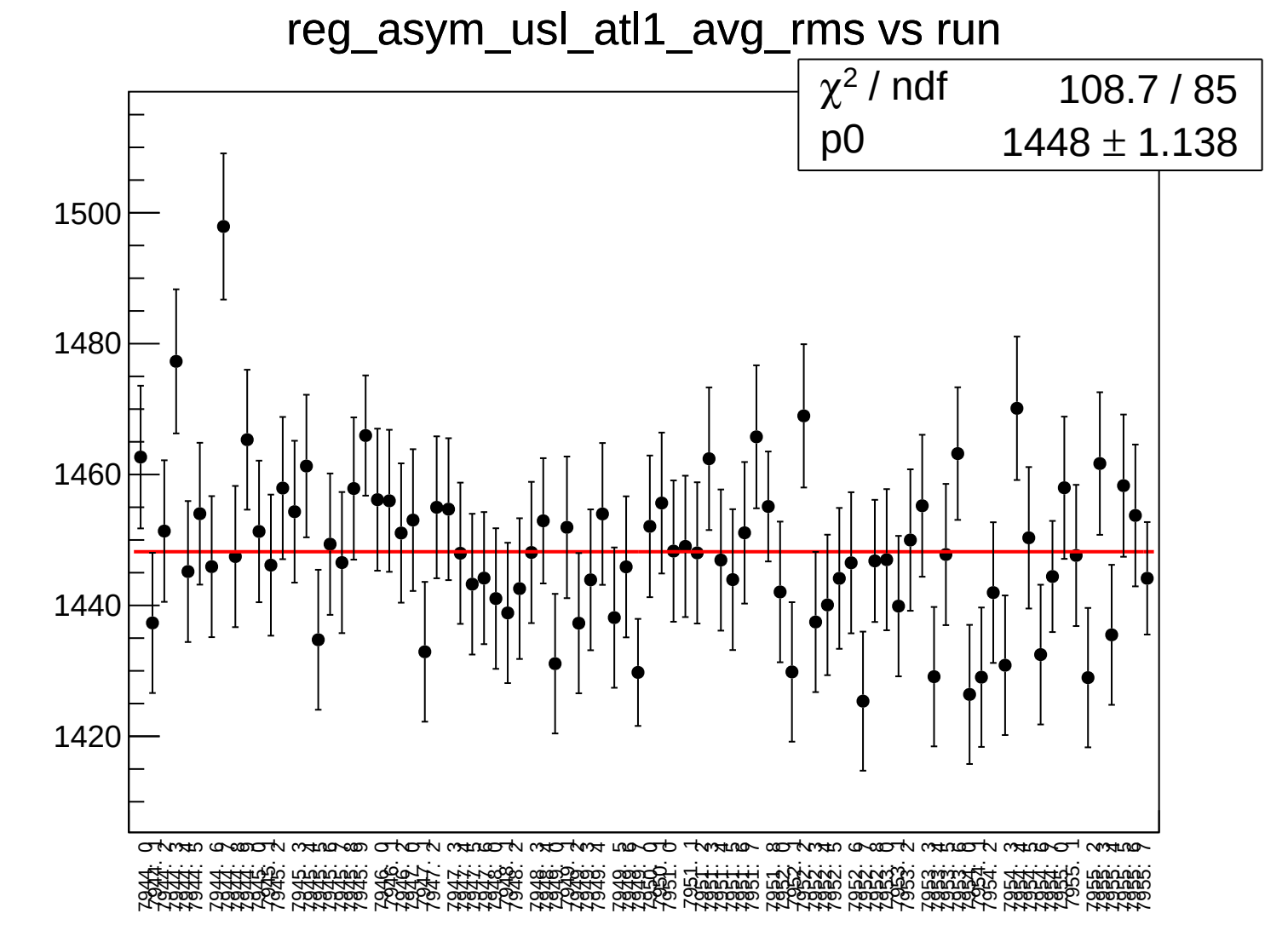

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.434e+05 / 85
p0 49.18 ± 0.04048
120
100
80
60
40
20

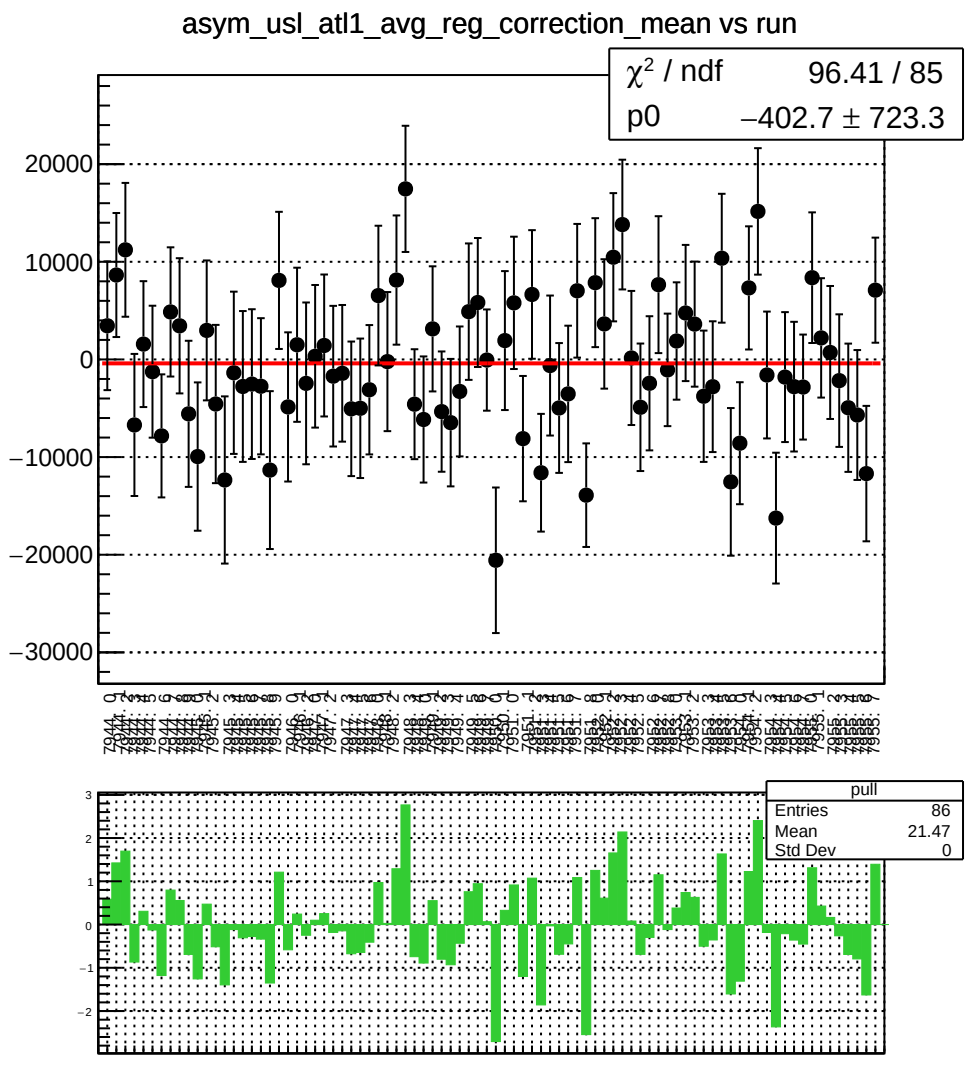

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.5 / 85
p0 4.607e−15 ± 1.099e−13
pull
Entries 86
Mean 257.5
Std Dev 0
pull1D
Entries 86
Mean 0.01106
Std Dev 0.8989

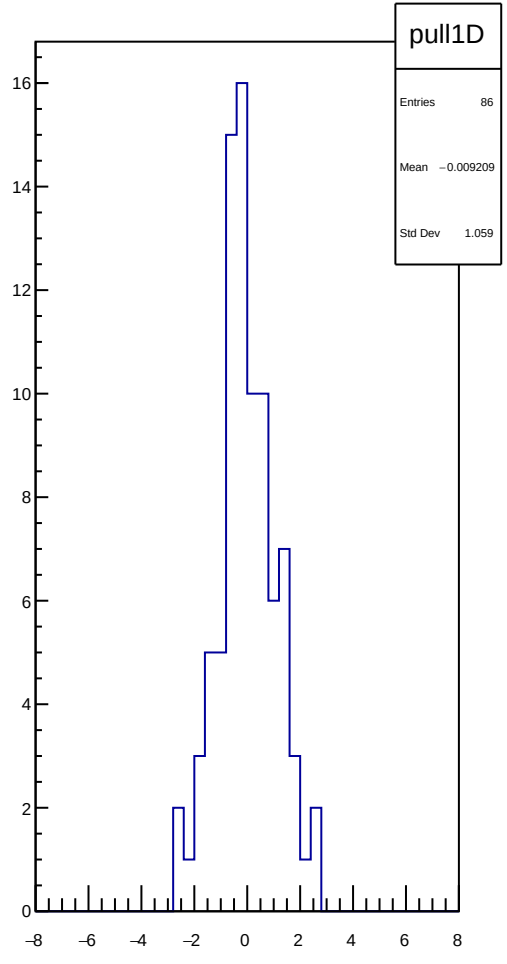

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.076e+06 / 85
p0 5.725e−11 ± 7.77e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

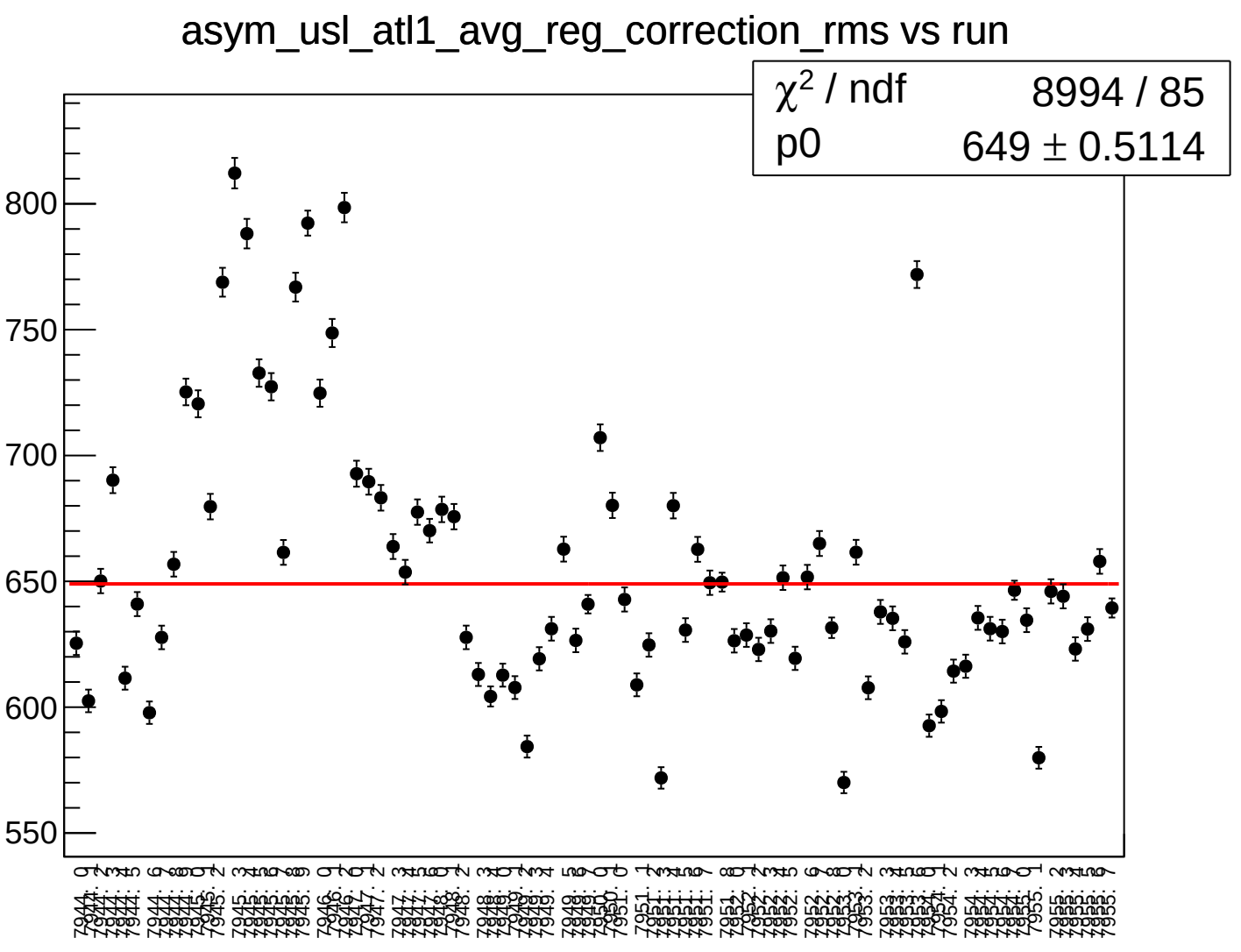

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.46 / 85
p0 3200 ± 1610
pull
Entries 86
Mean 194.7
Std Dev 0

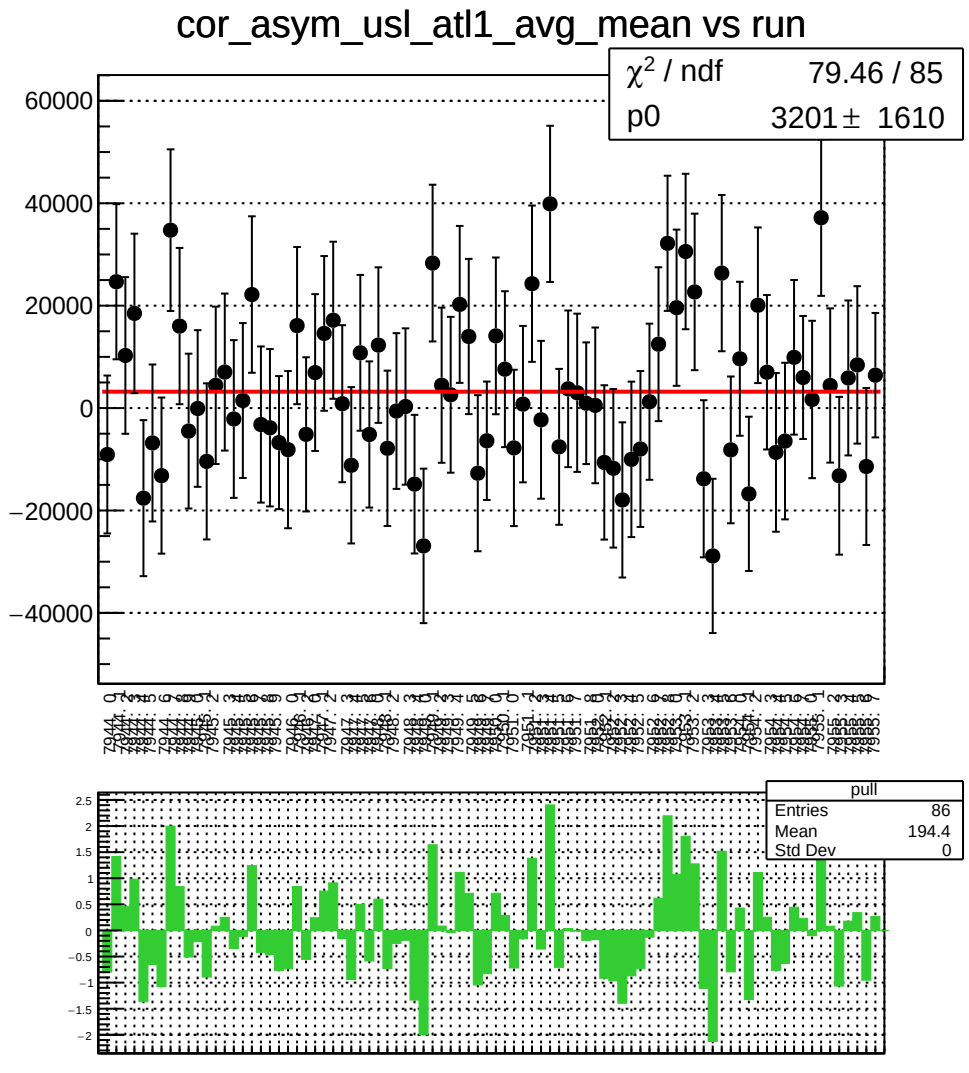

pull1D
Entries 86
Mean 0.003915
Std Dev 0.9612

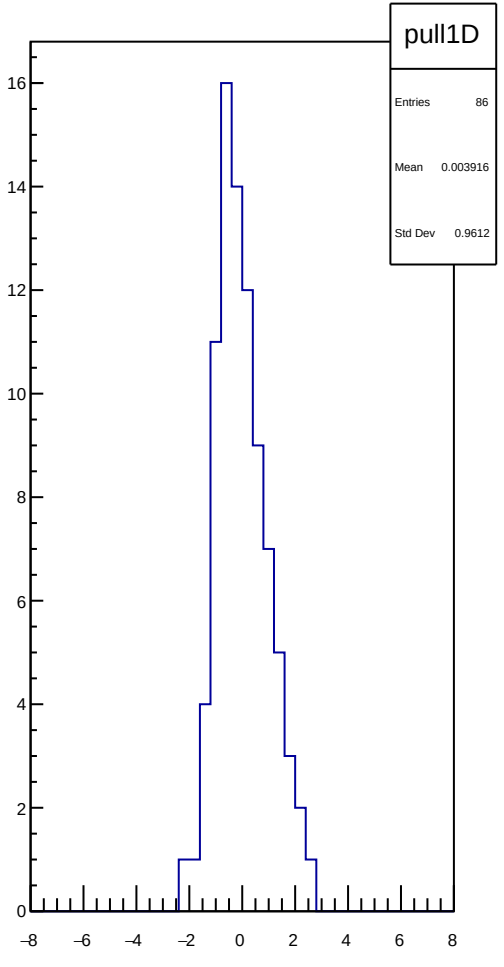

reg_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 108.7 / 85
p0 1448 ± 1.138
1500
1480
1460
1440
1420

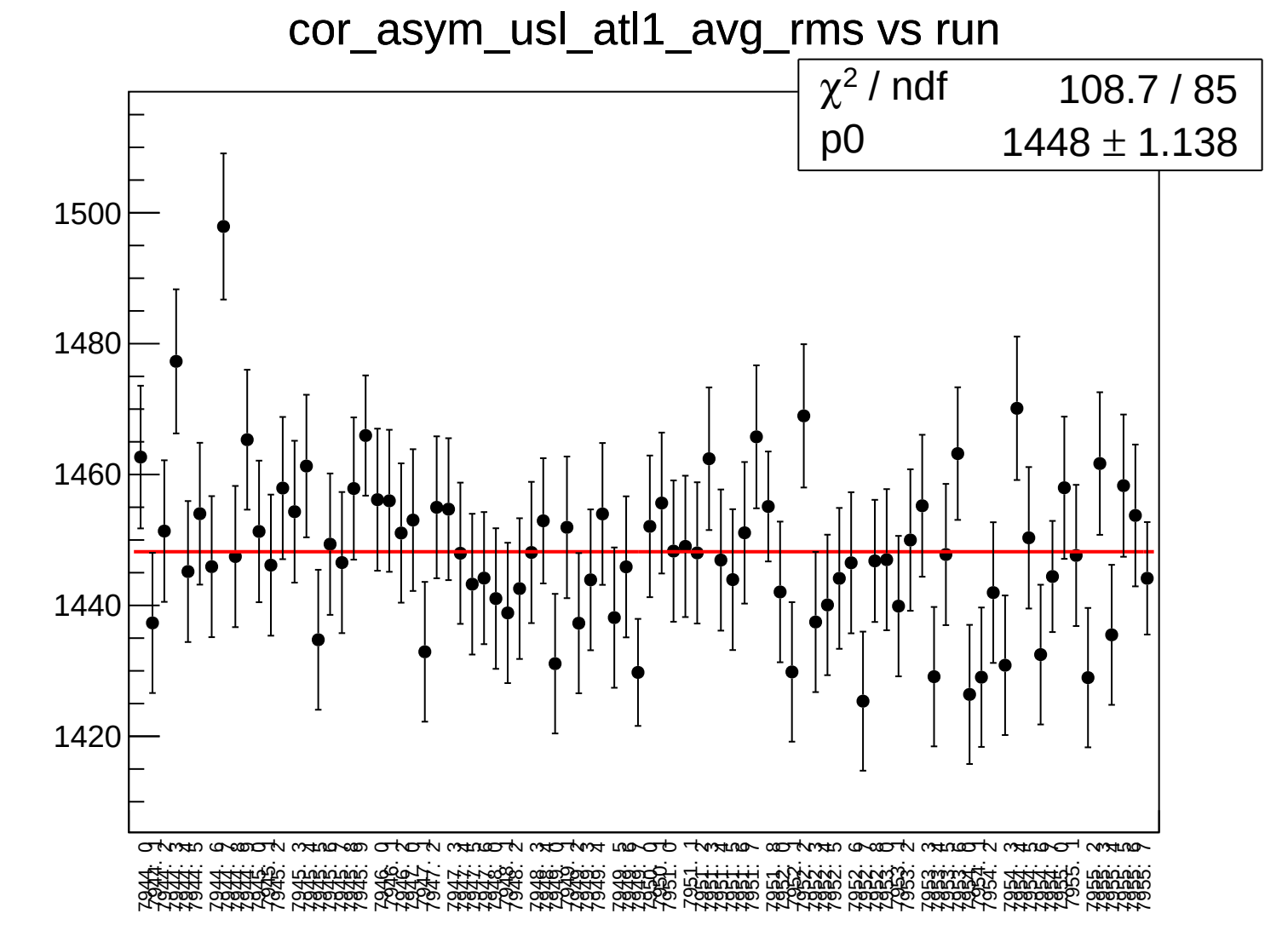

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 96.41 / 85
p0 −402.7 ± 723.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 21.47
Std Dev 0
3
2
1
0
−1
−2

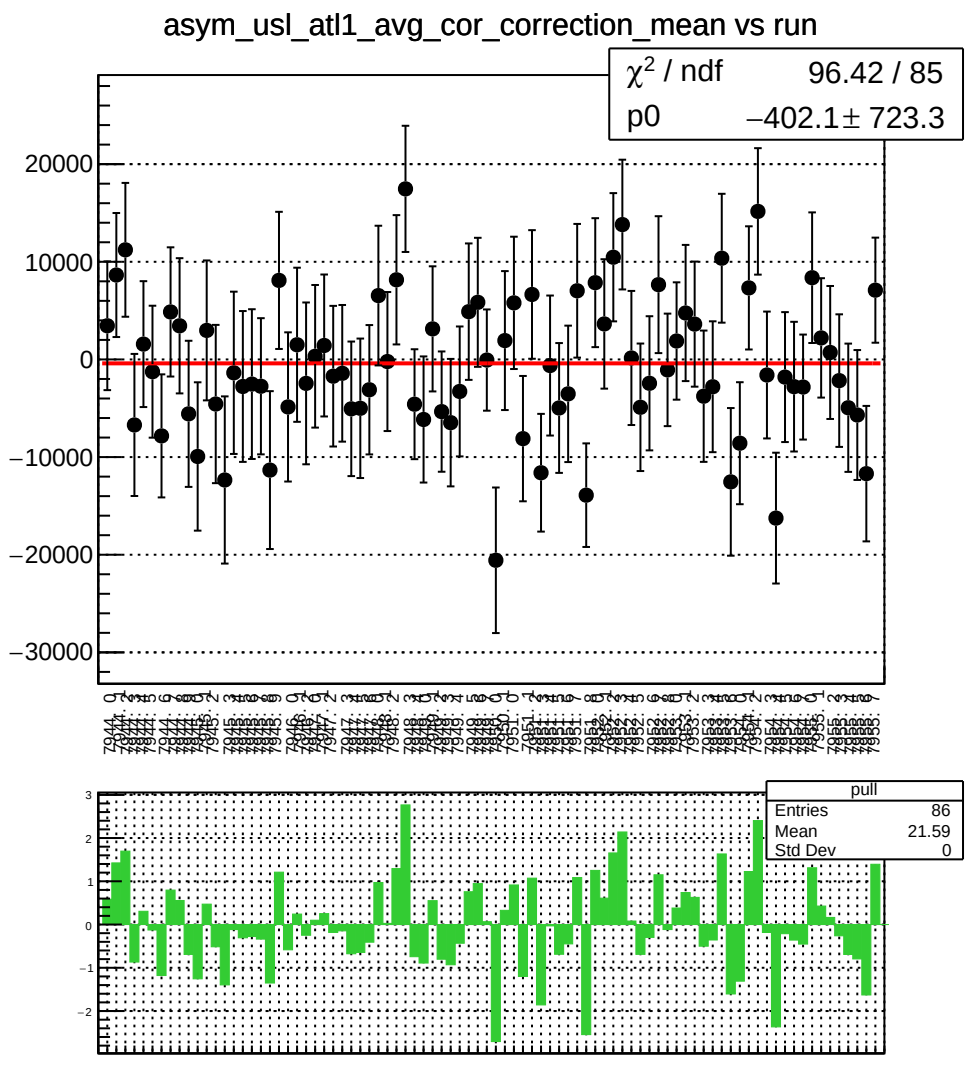

pull1D
Entries 86
Mean −0.009209
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

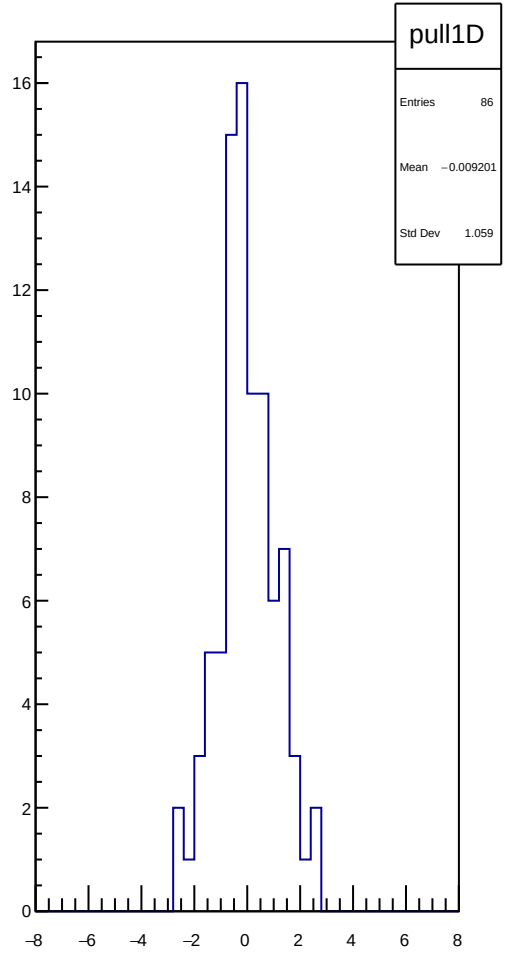

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 8994 / 85
p0 649 ± 0.5114
800
750
700
650
600
550

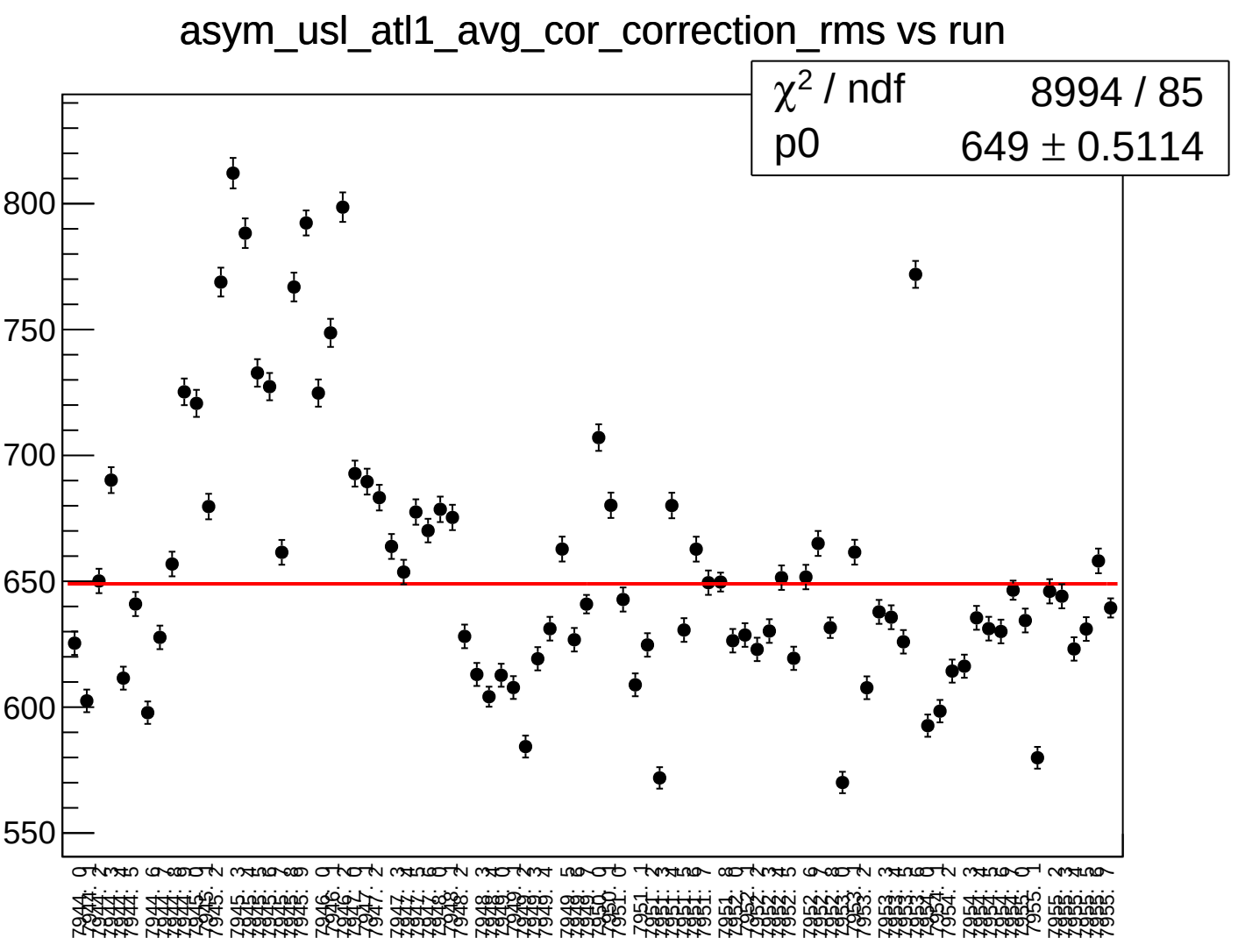

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.46 / 85
p0 3201 ± 1610
pull
Entries 86
Mean 194.4
Std Dev 0

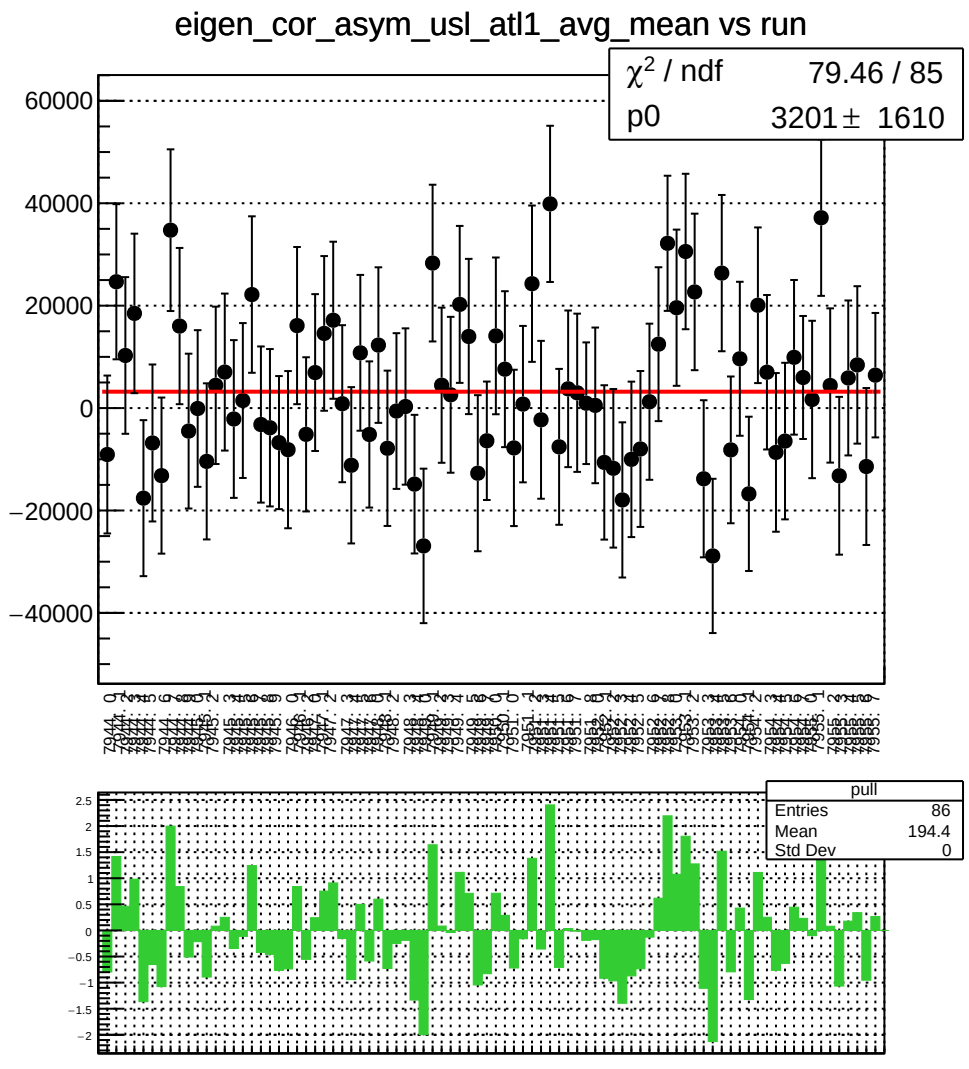

pull1D
Entries 86
Mean 0.003916
Std Dev 0.9612

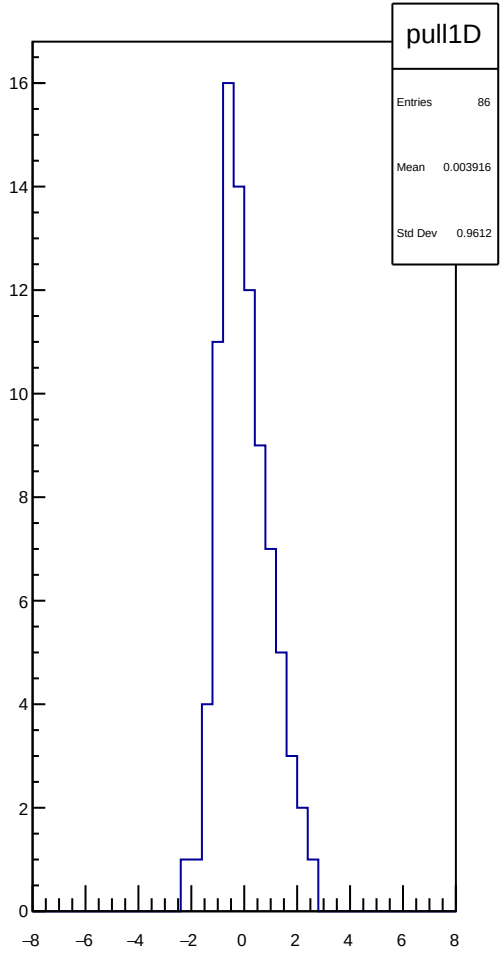

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 108.7 / 85
p0 1448 ± 1.138
1500
1480
1460
1440
1420

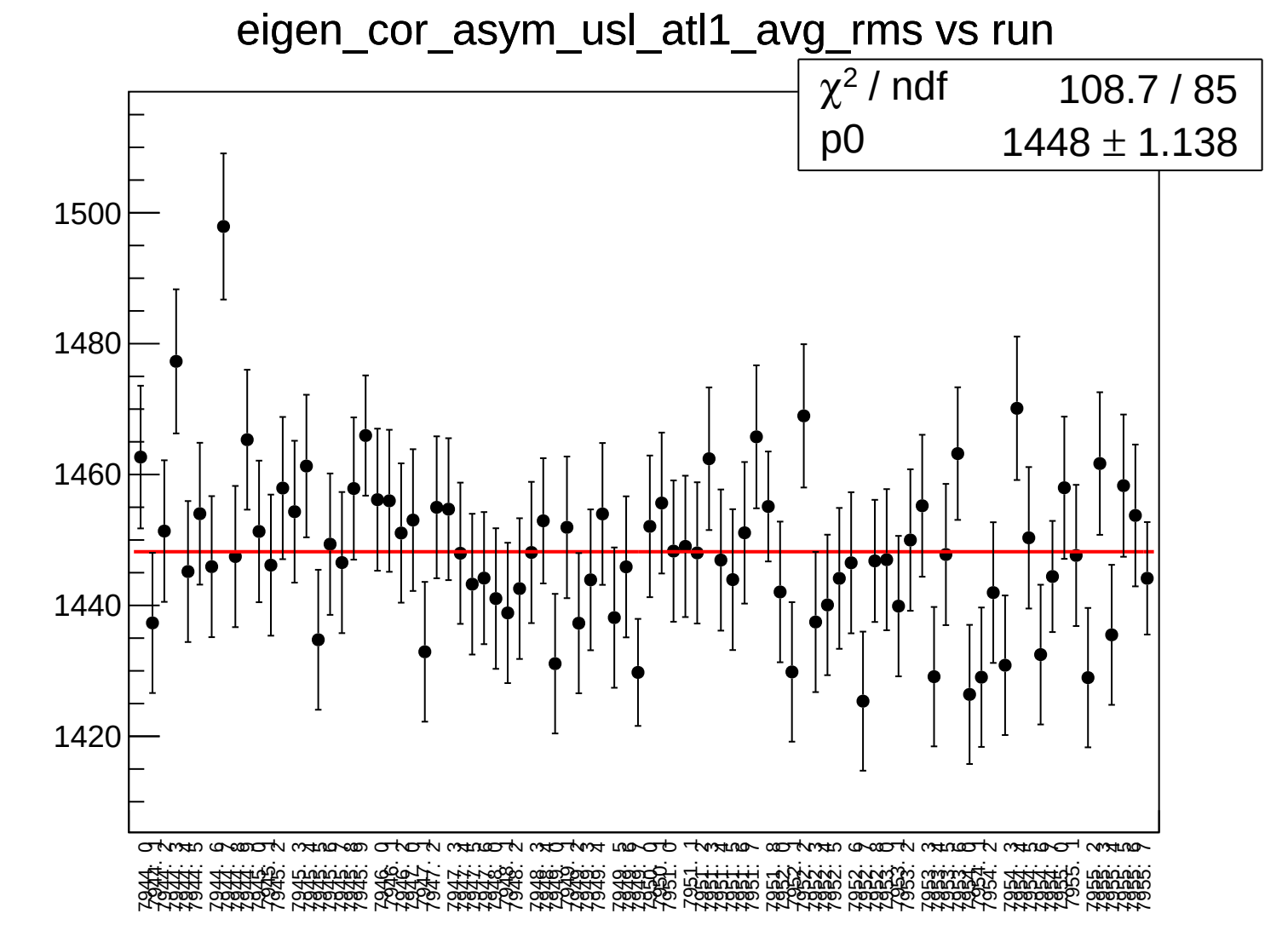

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 96.42 / 85
p0 −402.1± 723.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 21.59
Std Dev 0
3
2
1
0
−1
−2

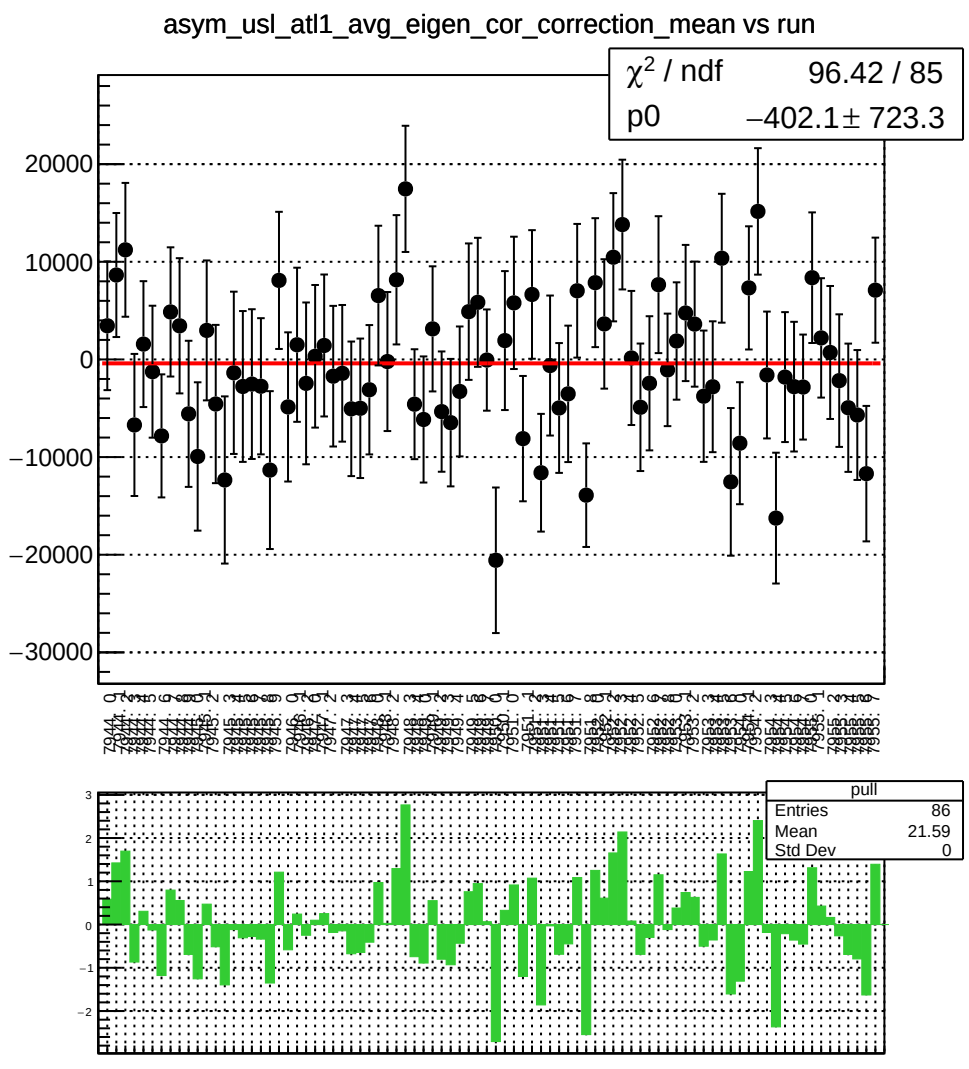

pull1D
Entries 86
Mean −0.009201
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

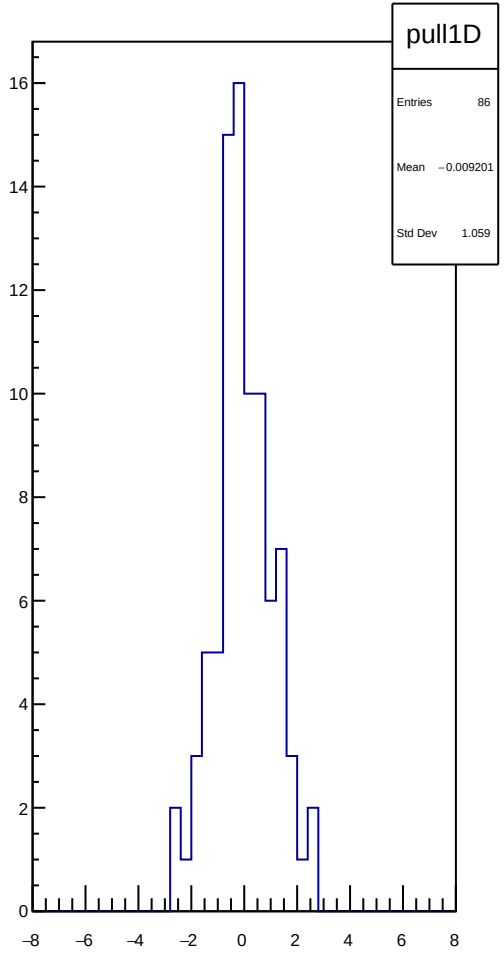

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 8994 / 85
p0 649 ± 0.5114
800
750
700
650
600
550

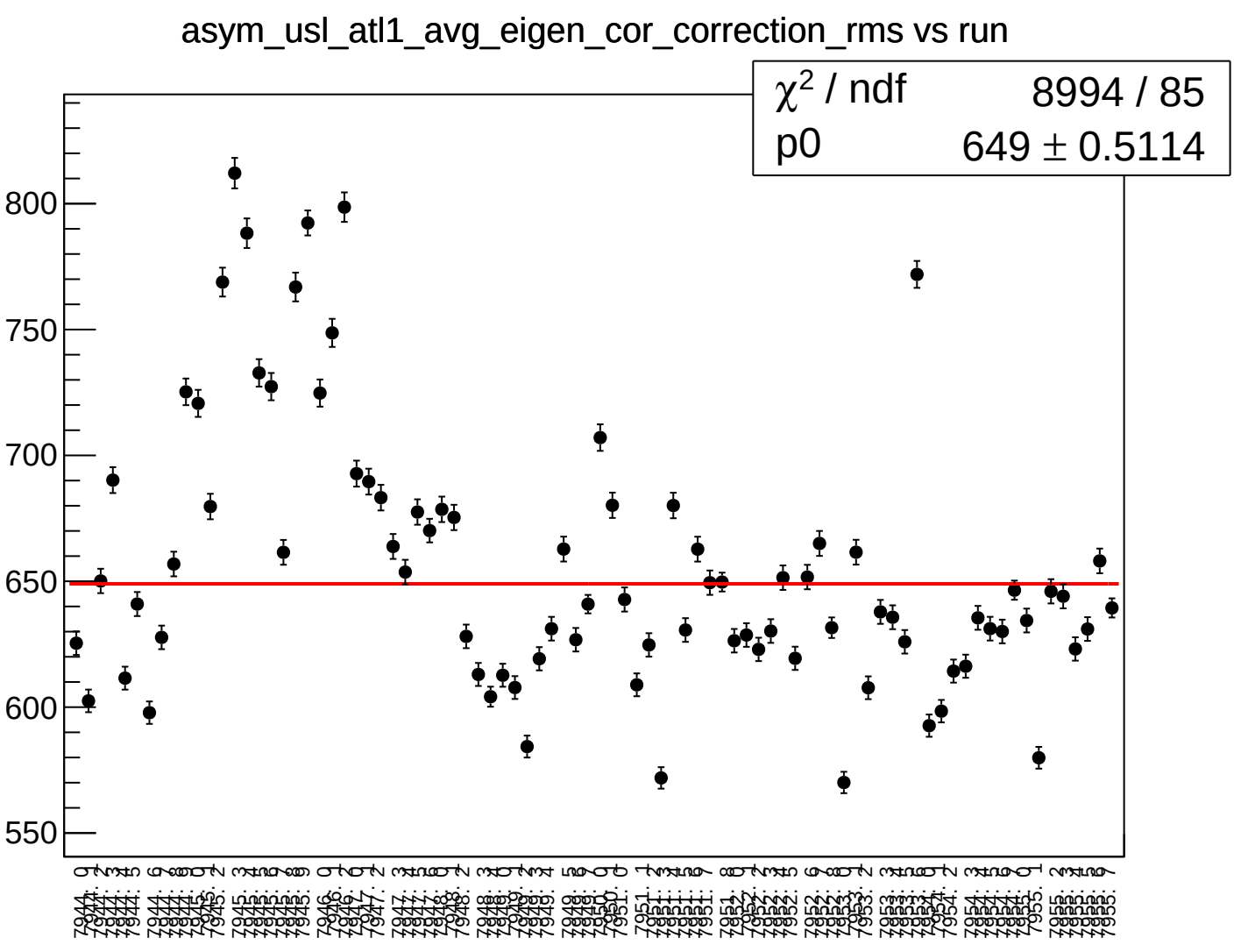

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.46 / 85
p0 3201 ± 1610
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 194.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

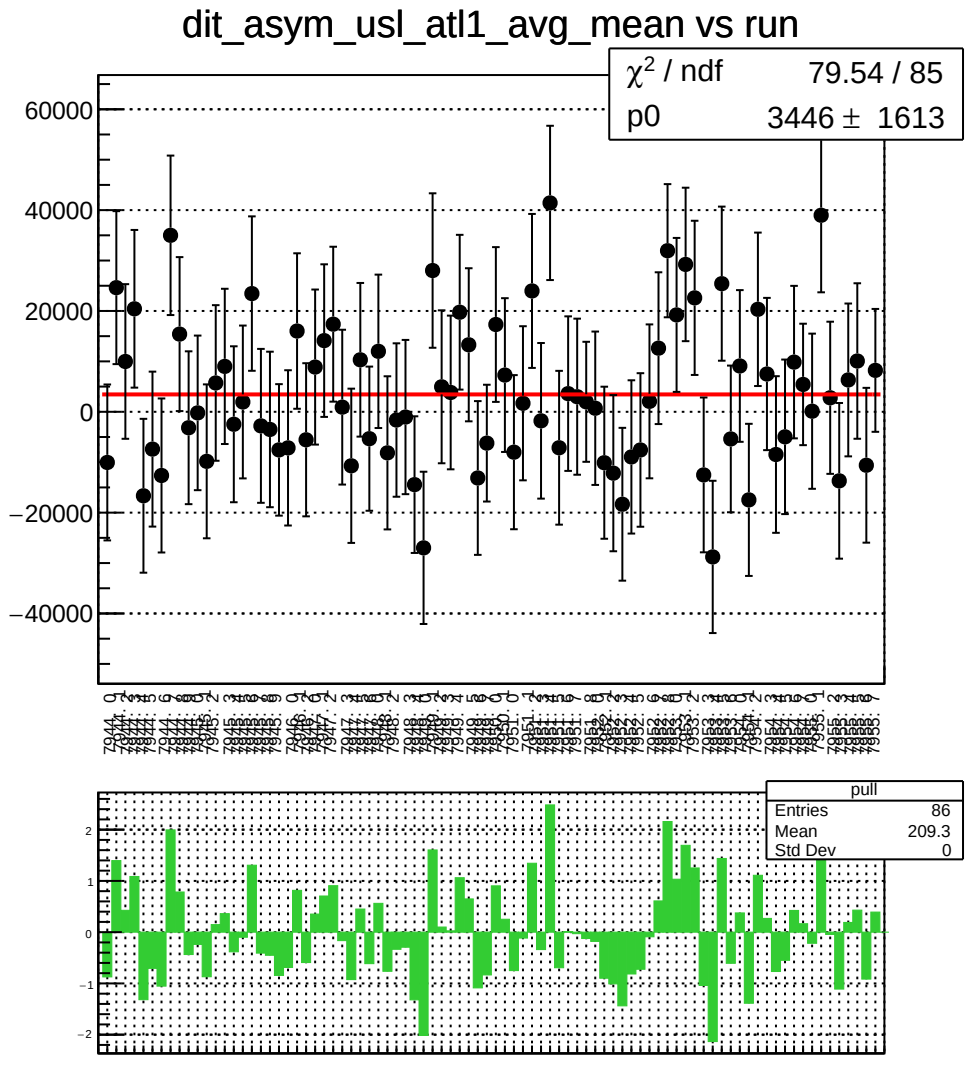

pull1D
Entries 86
Mean 0.003916
Std Dev 0.9612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

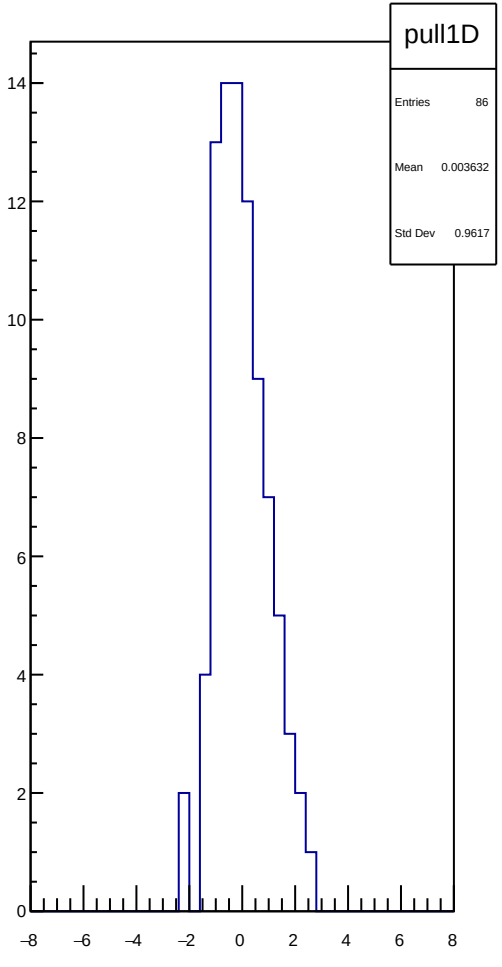

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 108.7 / 85
p0 1448 ± 1.138
1500
1480
1460
1440
1420

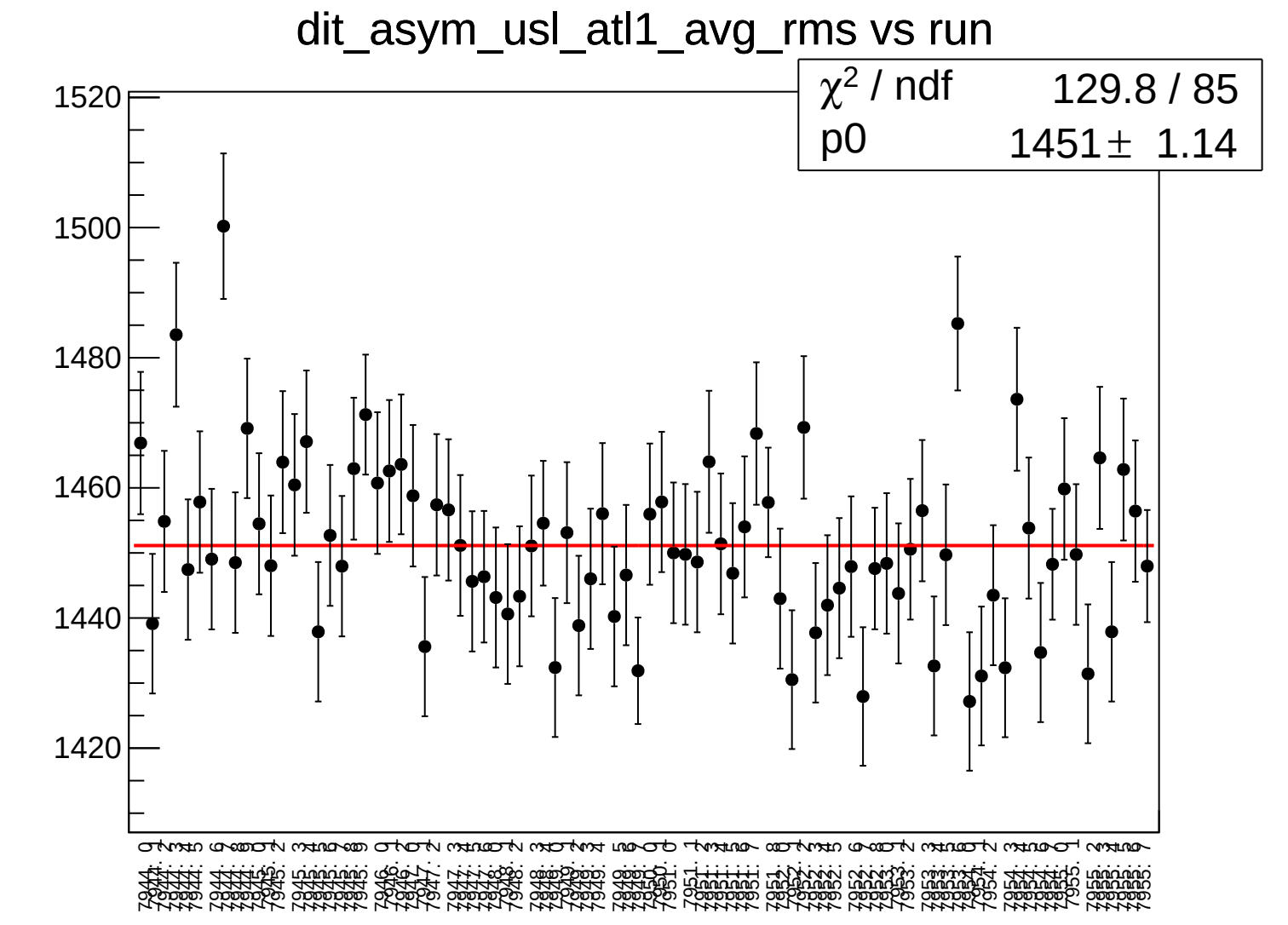

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.42 / 85
p0 −402.1± 723.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 21.59
Std Dev 0
3
2
1
0
−1
−2

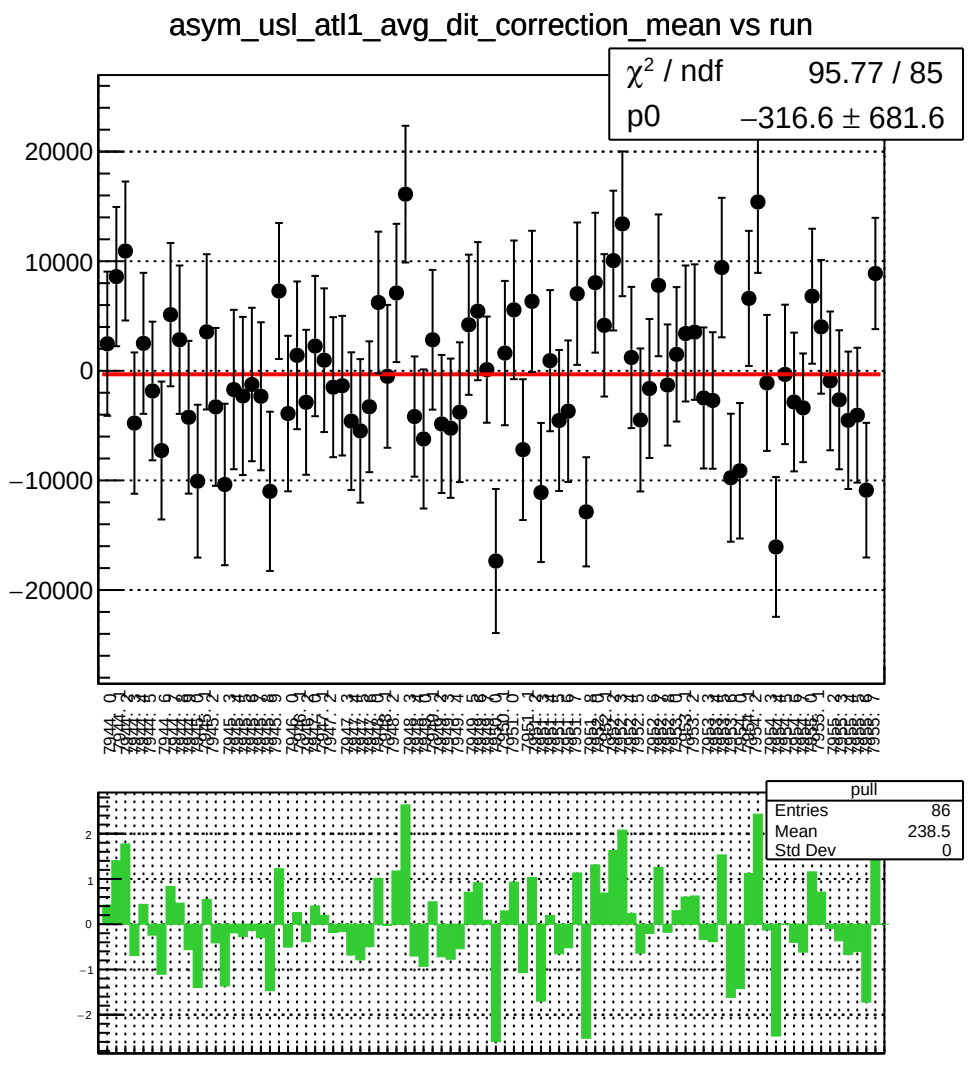

pull1D
Entries 86
Mean −0.009201
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

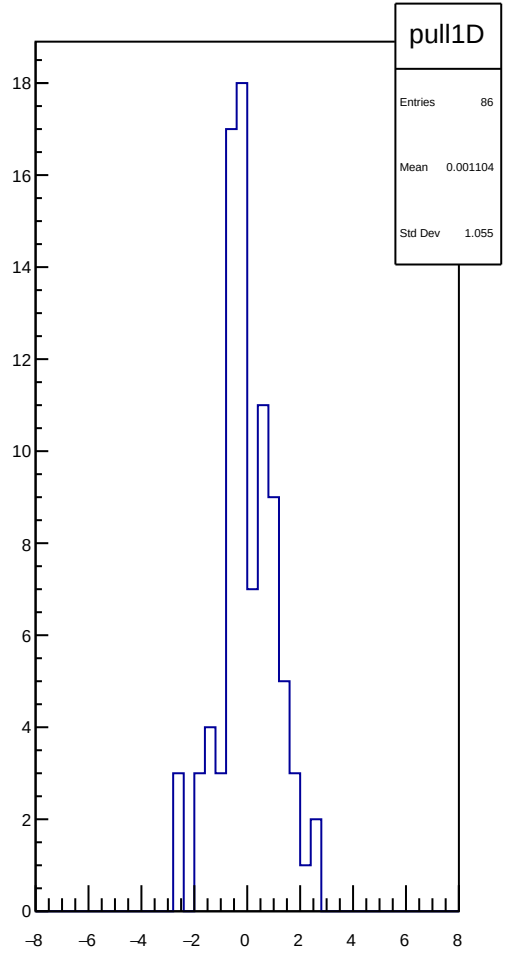

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8994 / 85
p0 649 ± 0.5114
800
750
700
650
600
550

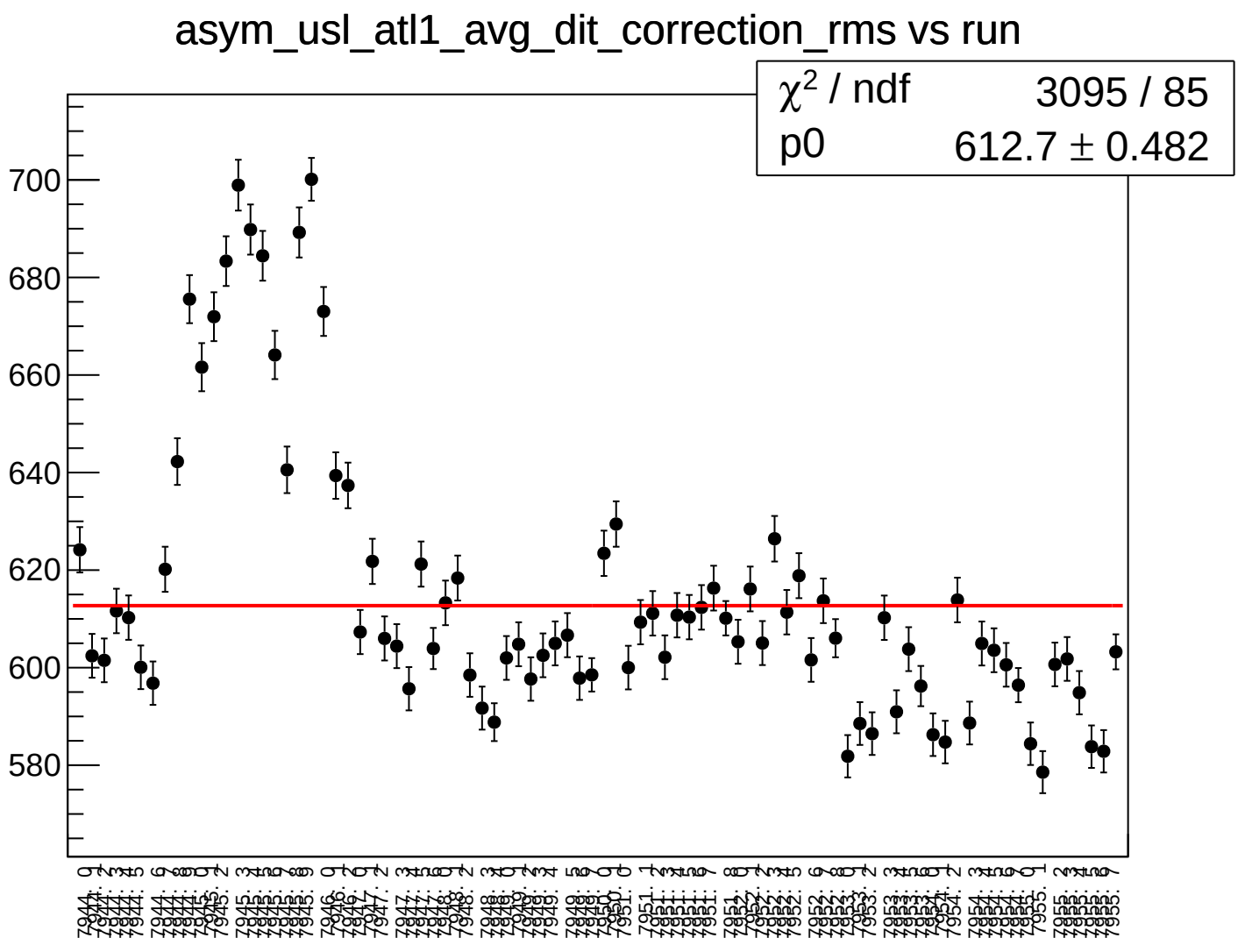

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.54 / 85
p0 3446 ± 1613
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 209.3
Std Dev 0
2
1
0
−1
−2

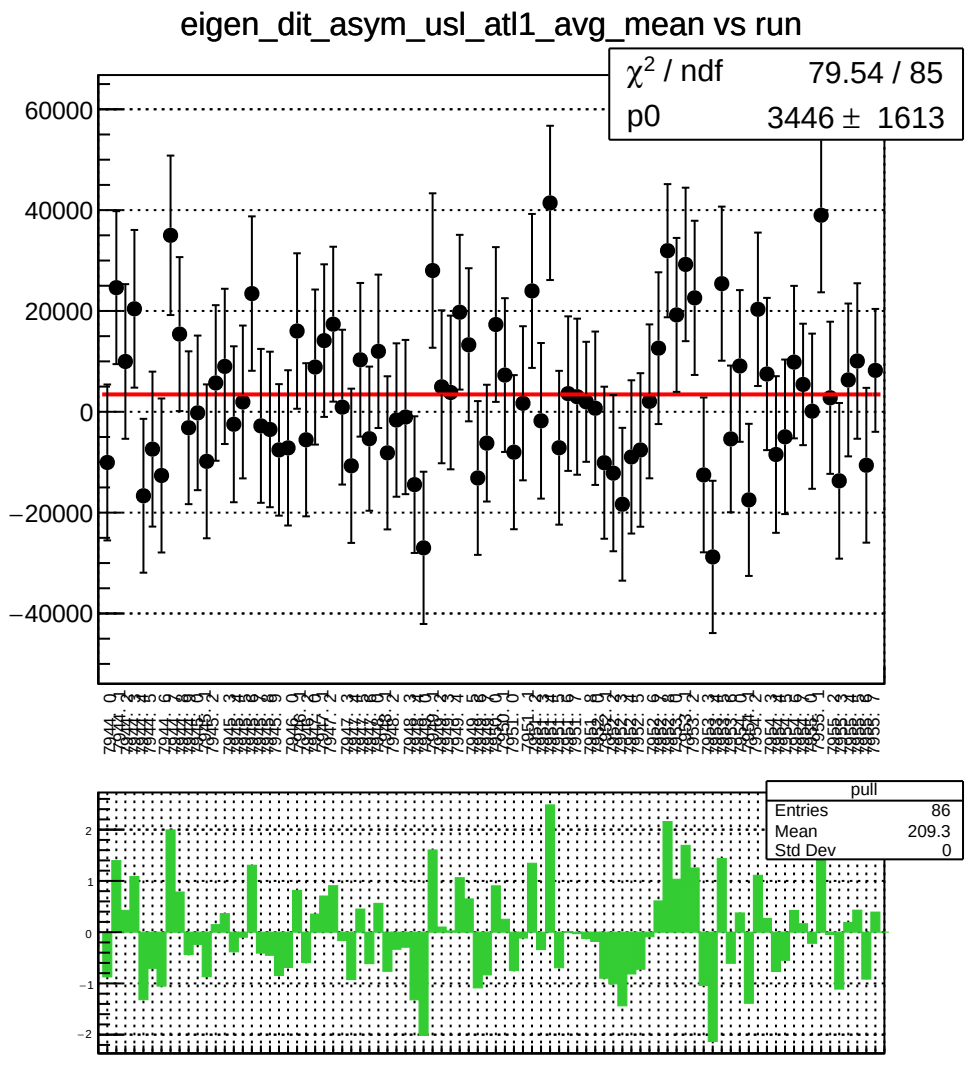

pull1D
Entries 86
Mean 0.003632
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

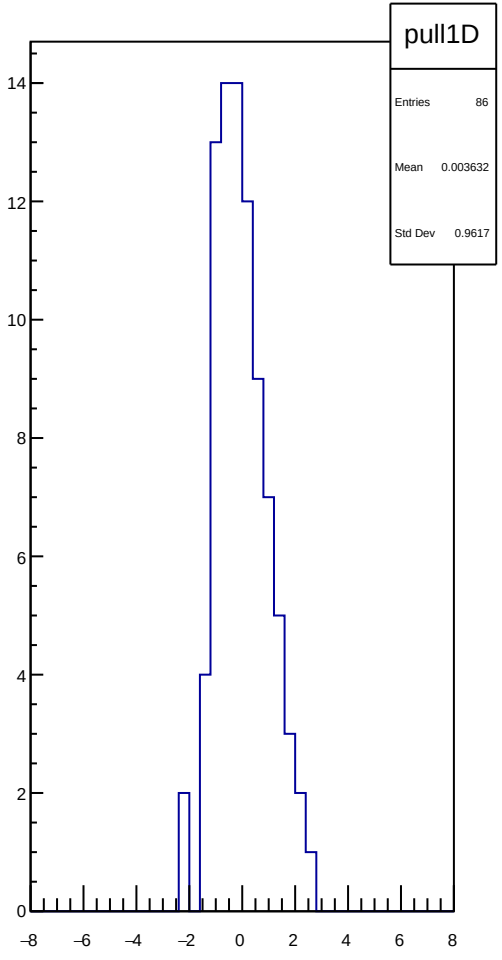

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 129.8 / 85
p0 1451 ± 1.14
1520
1500
1480
1460
1440
1420

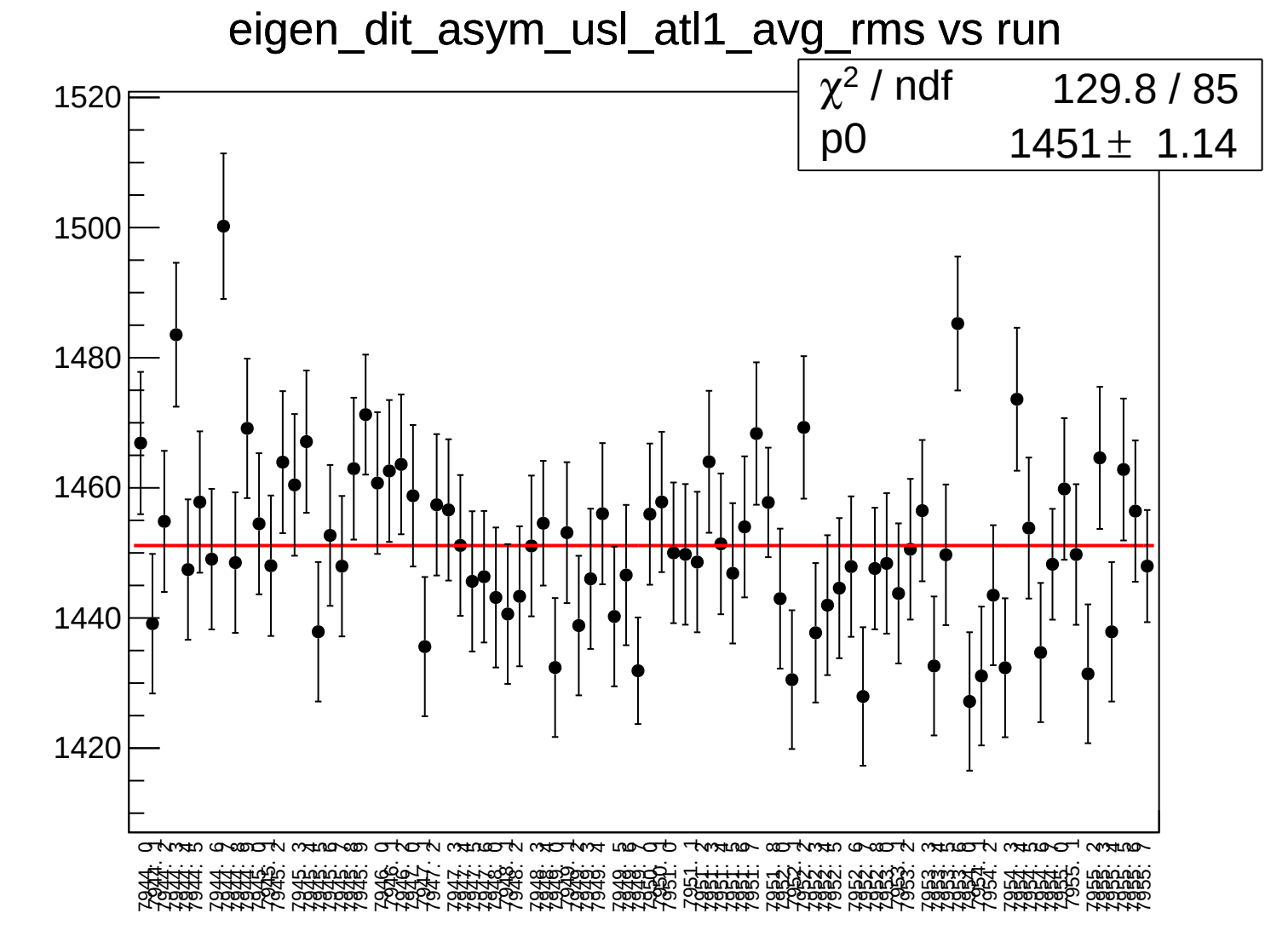

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 95.77 / 85
p0 −316.6 ± 681.6
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 238.5
Std Dev 0
2
1
0
−1
−2

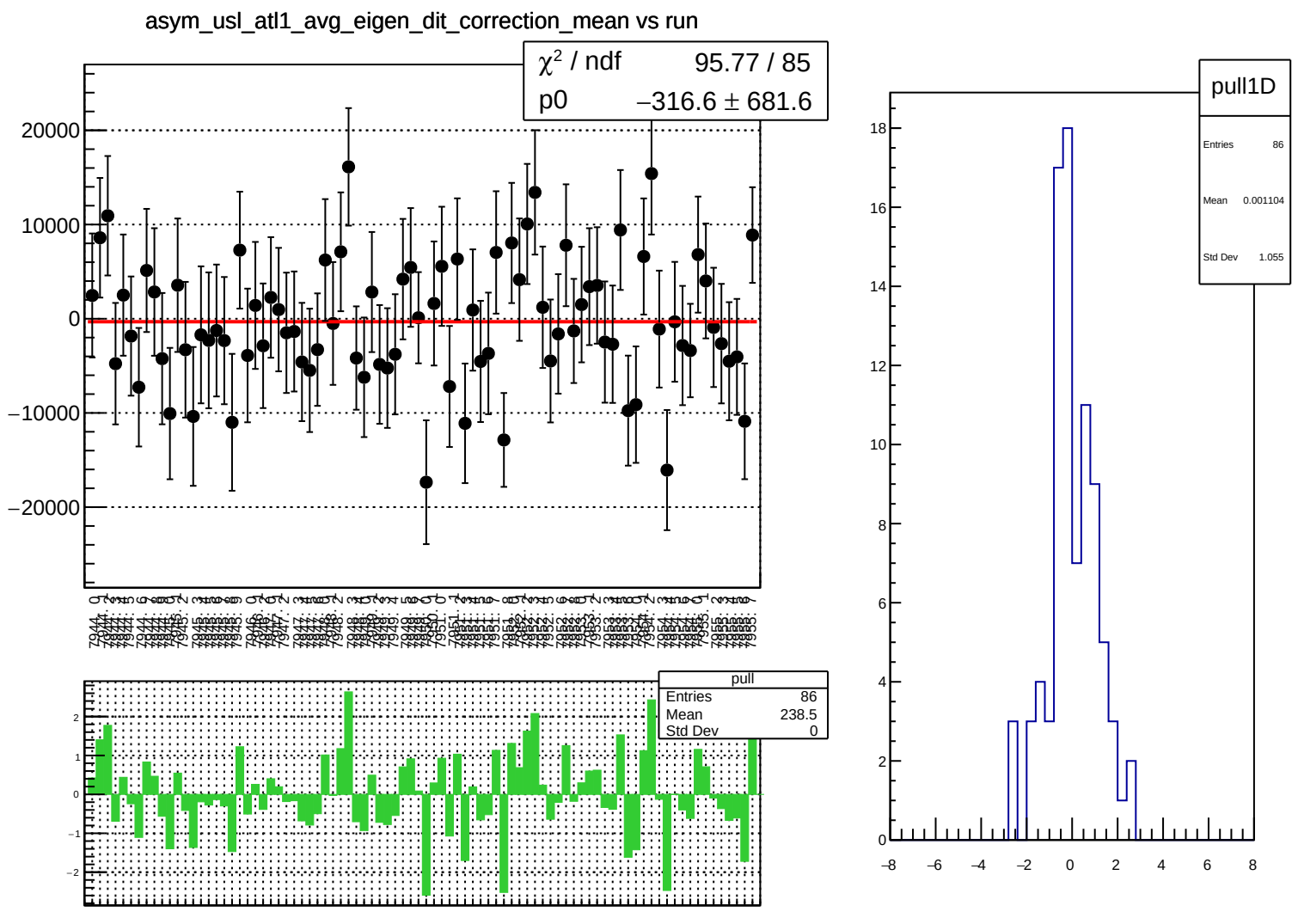

pull1D
Entries 86
Mean 0.001104
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

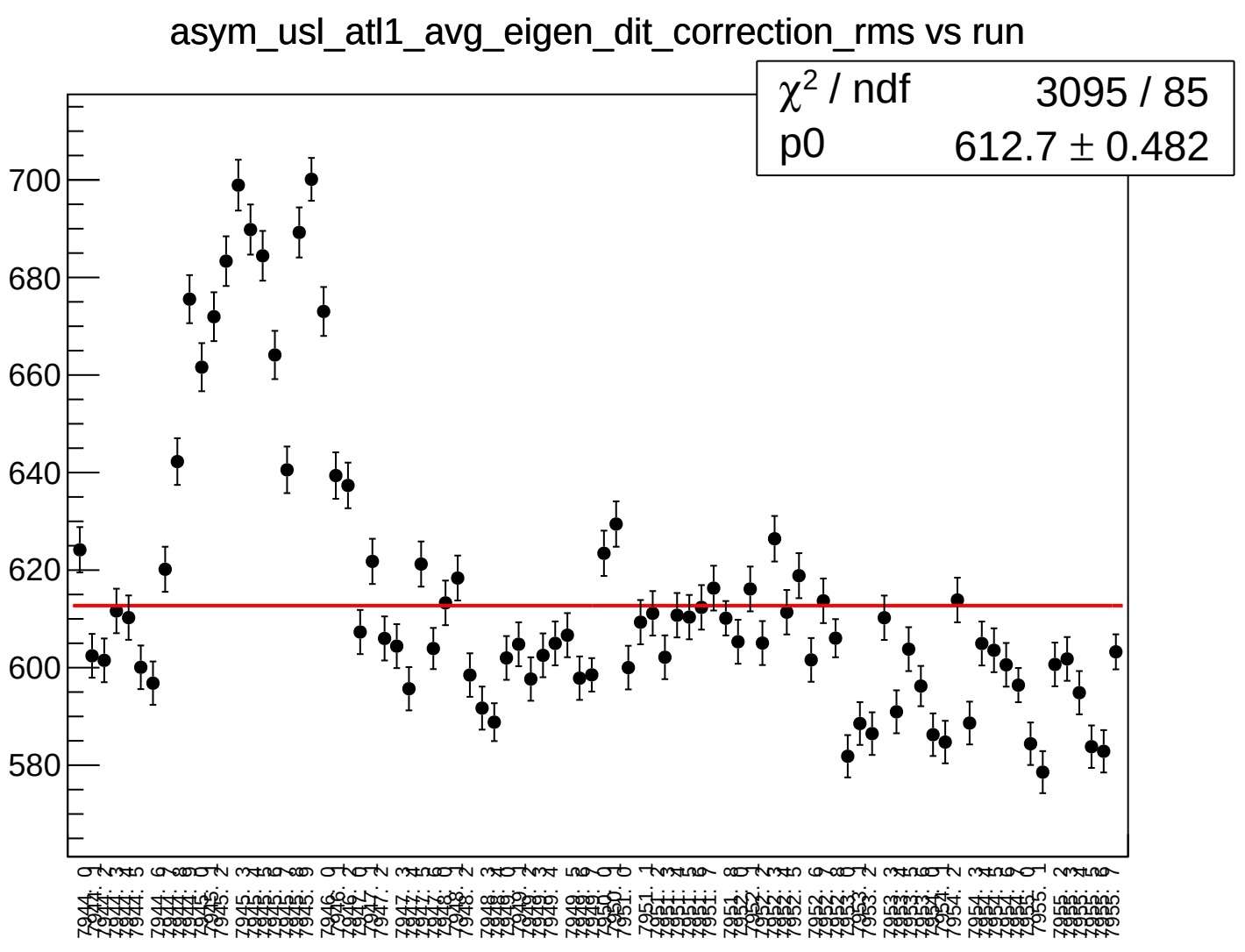

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 3095 / 85
p0 612.7 ± 0.482
700
680
660
640
620
600
580

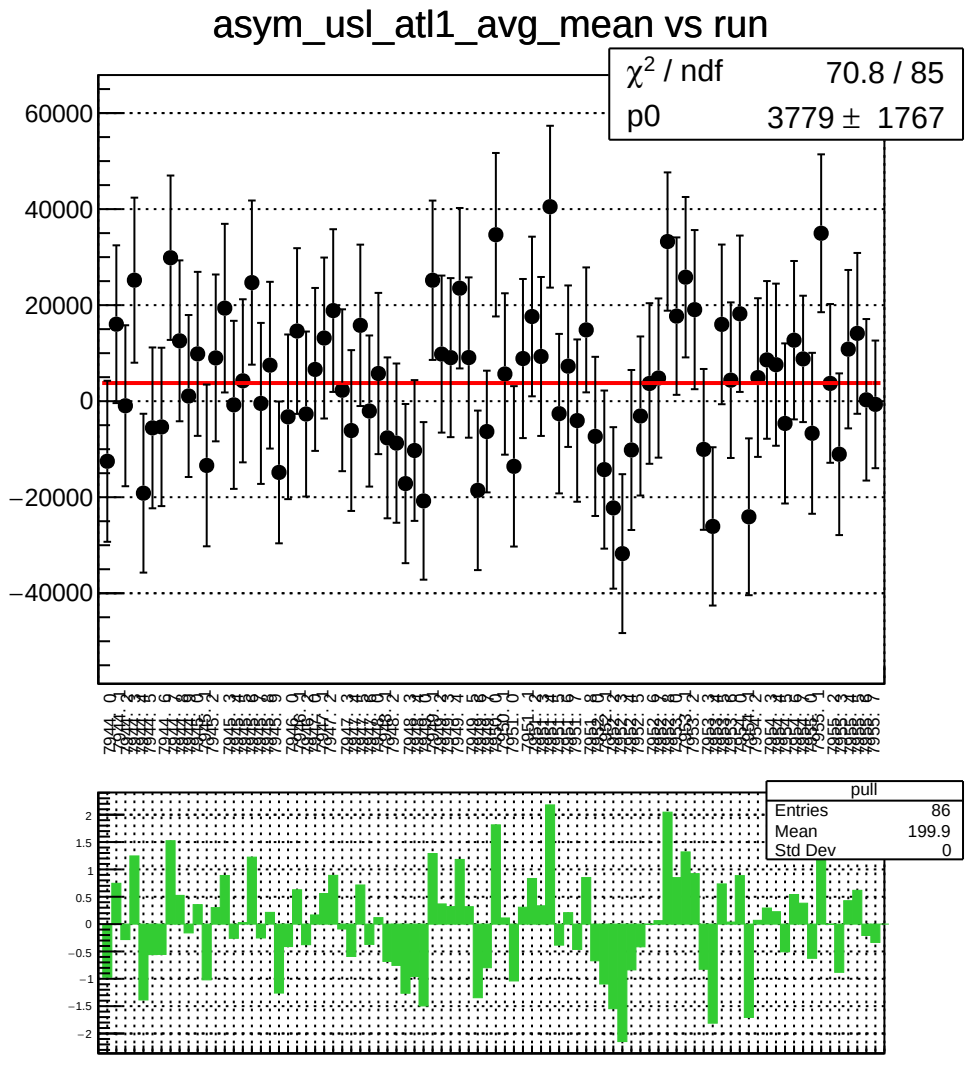

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.54 / 85
p0 3446 ± 1613
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 209.3
Std Dev 0
2
1
0
−1
−2

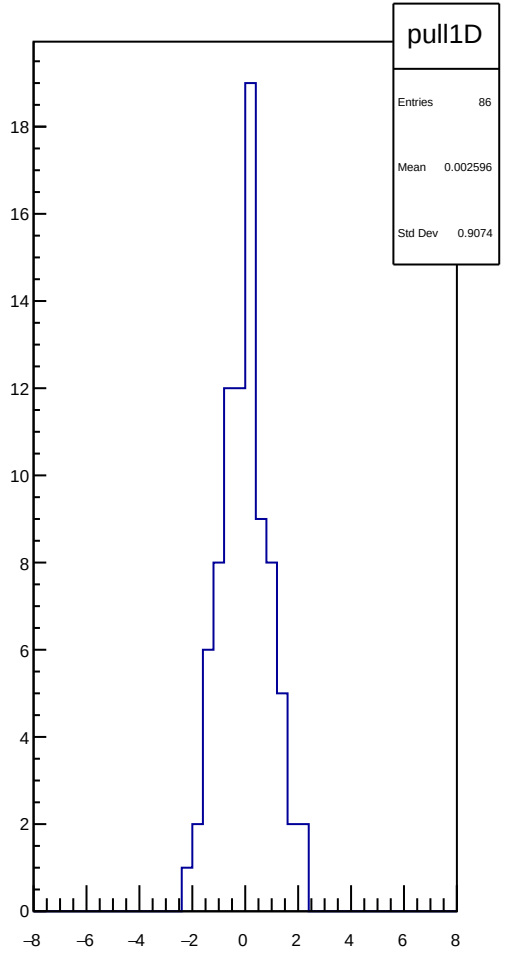

pull1D
Entries 86
Mean 0.003632
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

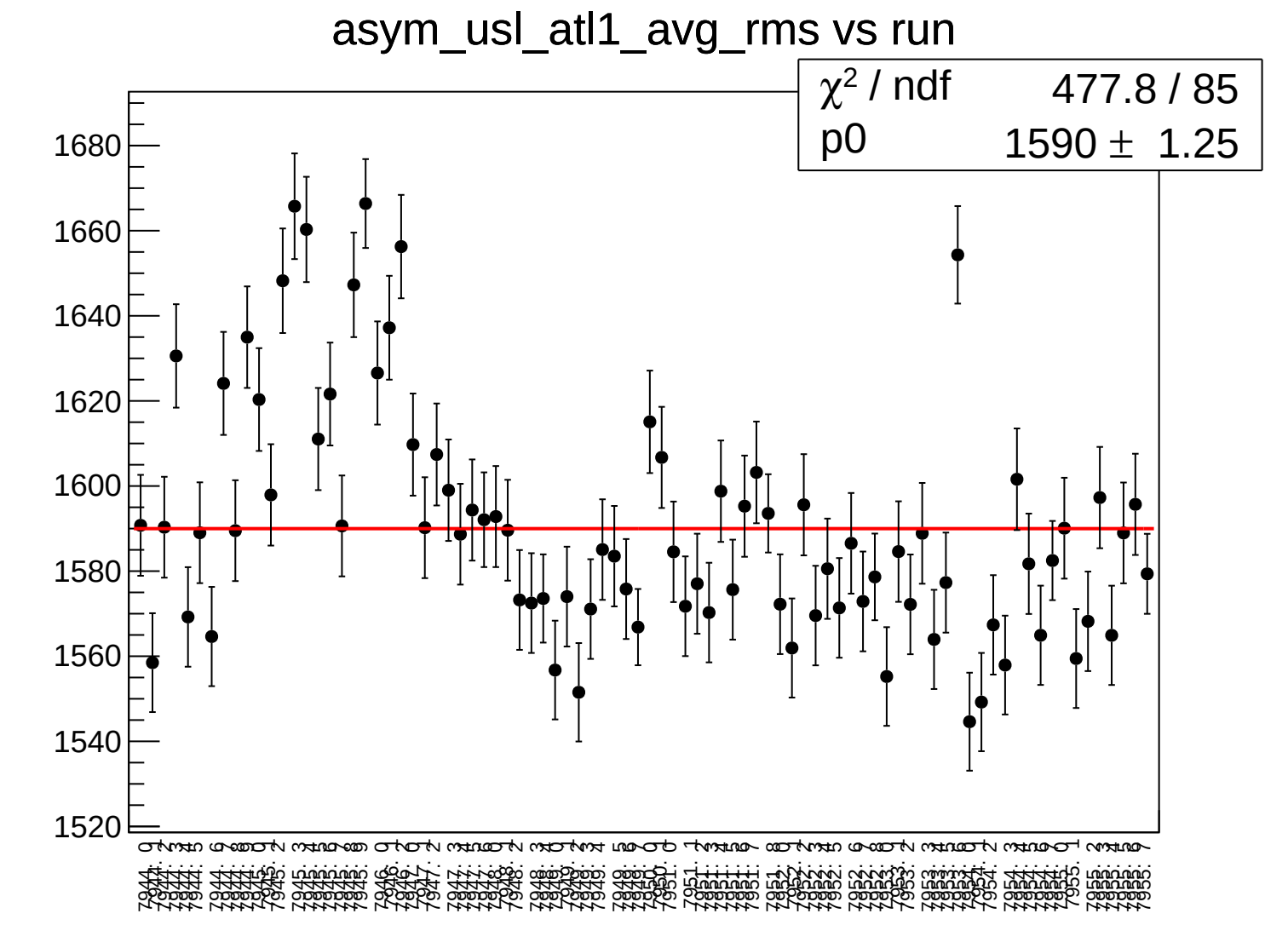

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 129.8 / 85
p0 1451 ± 1.14
1520
1500
1480
1460
1440
1420

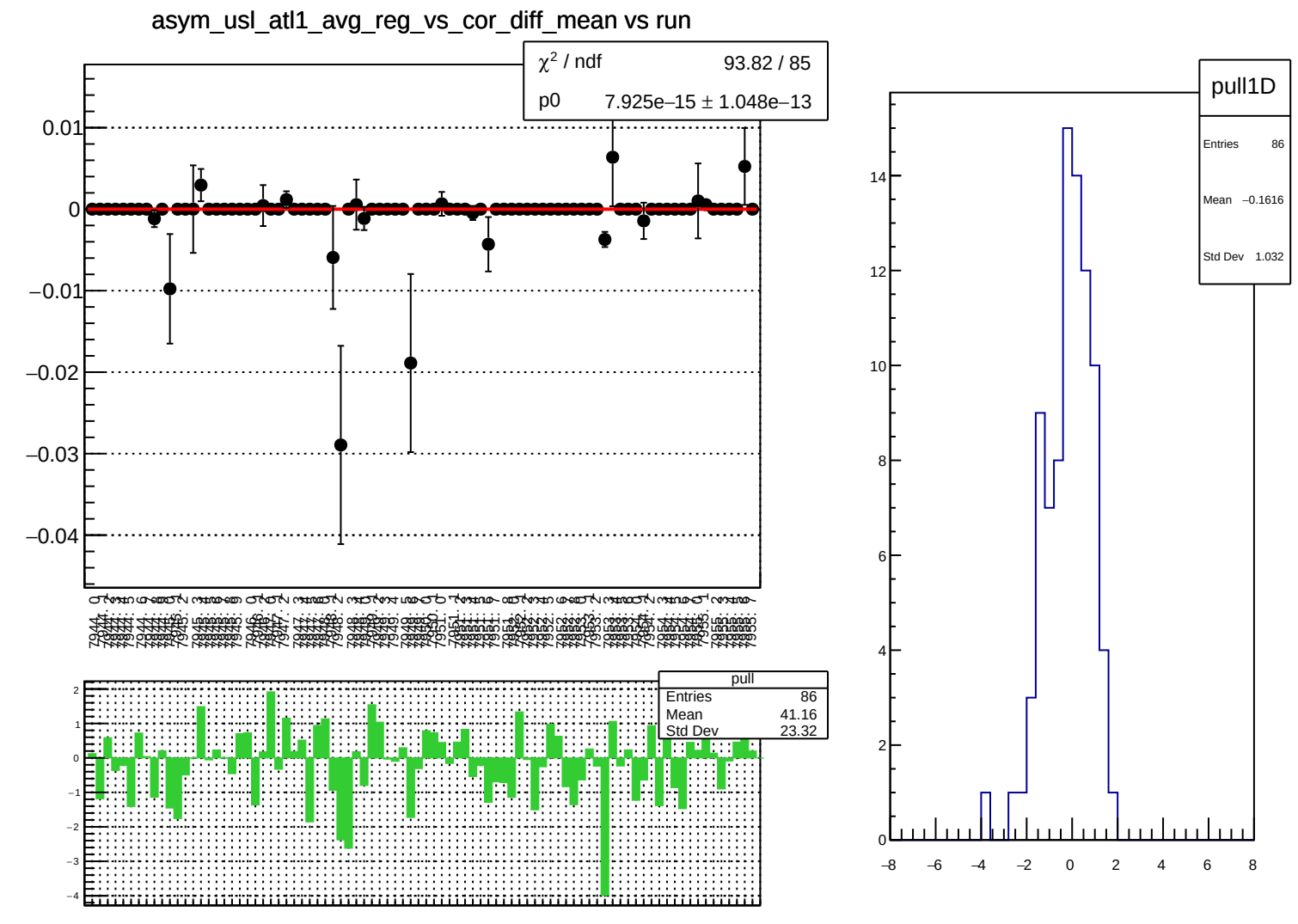

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.77 / 85
p0 −316.6 ± 681.6
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 238.5
Std Dev 0
pull1D
Entries 86
Mean 0.001104
Std Dev 1.055

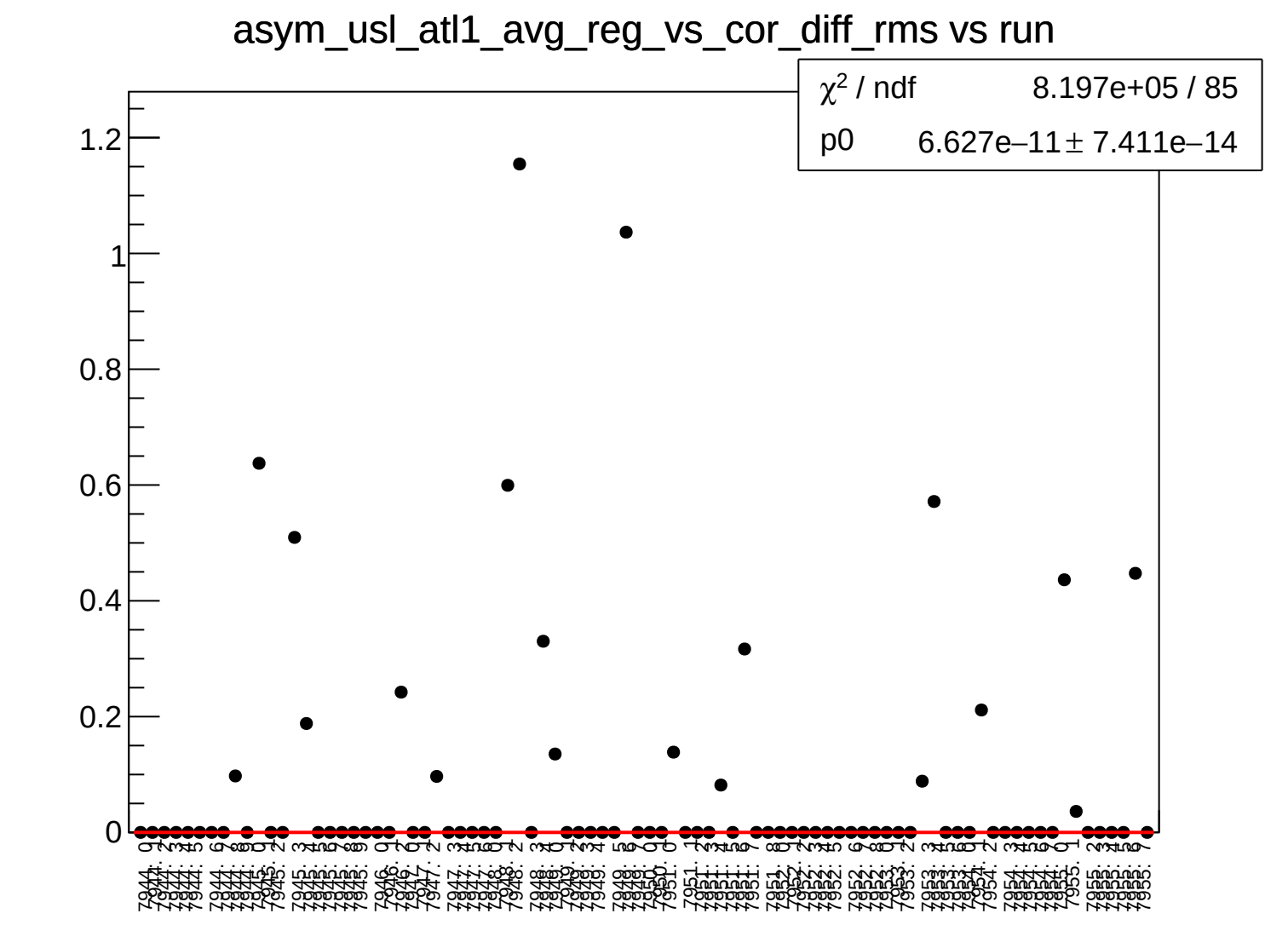

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3095 / 85
p0 612.7 ± 0.482
700
680
660
640
620
600
580

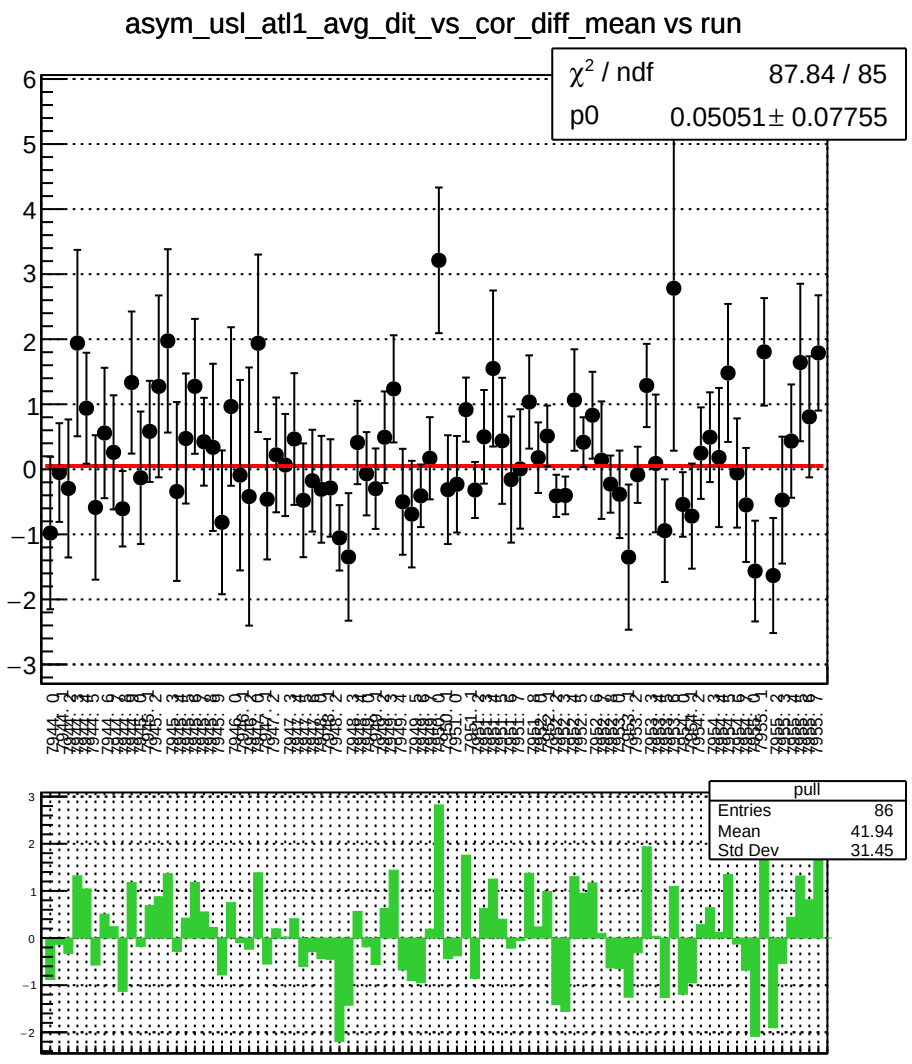

asym_usl_atl1_avg_mean vs run
χ² / ndf 70.8 / 85
p0 3779 ± 1767
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 199.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

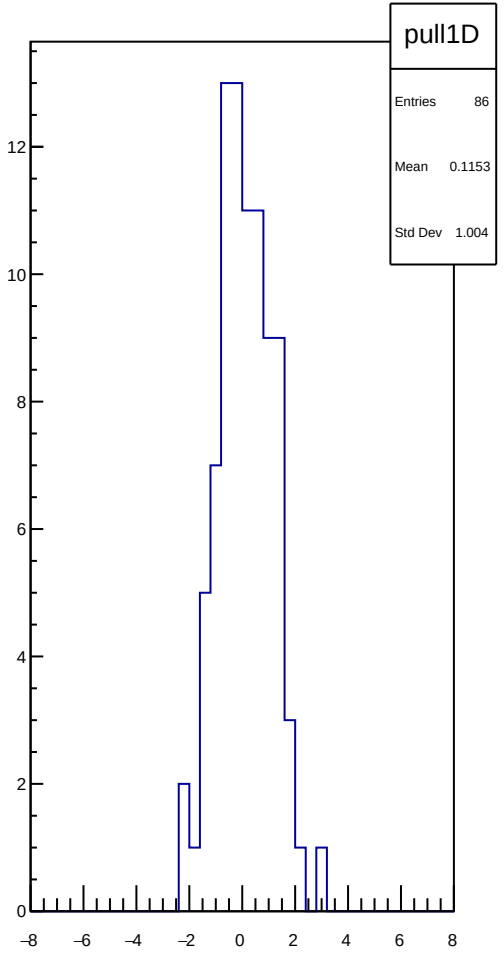

pull1D
Entries 86
Mean 0.002596
Std Dev 0.9074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

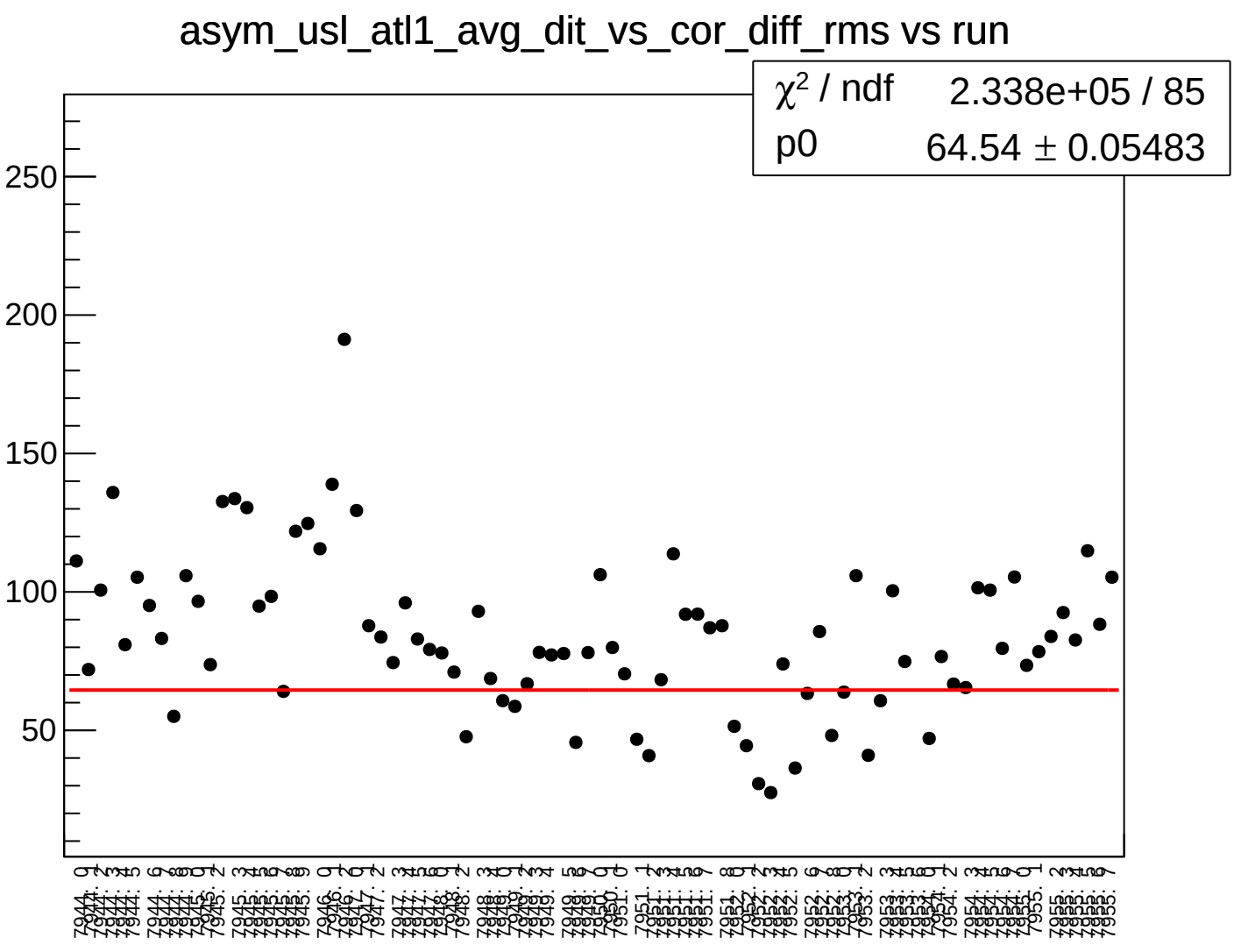

asym_usl_atl1_avg_rms vs run
χ² / ndf 477.8 / 85
p0 1590 ± 1.25
1680
1660
1640
1620
1600
1580
1560
1540
1520

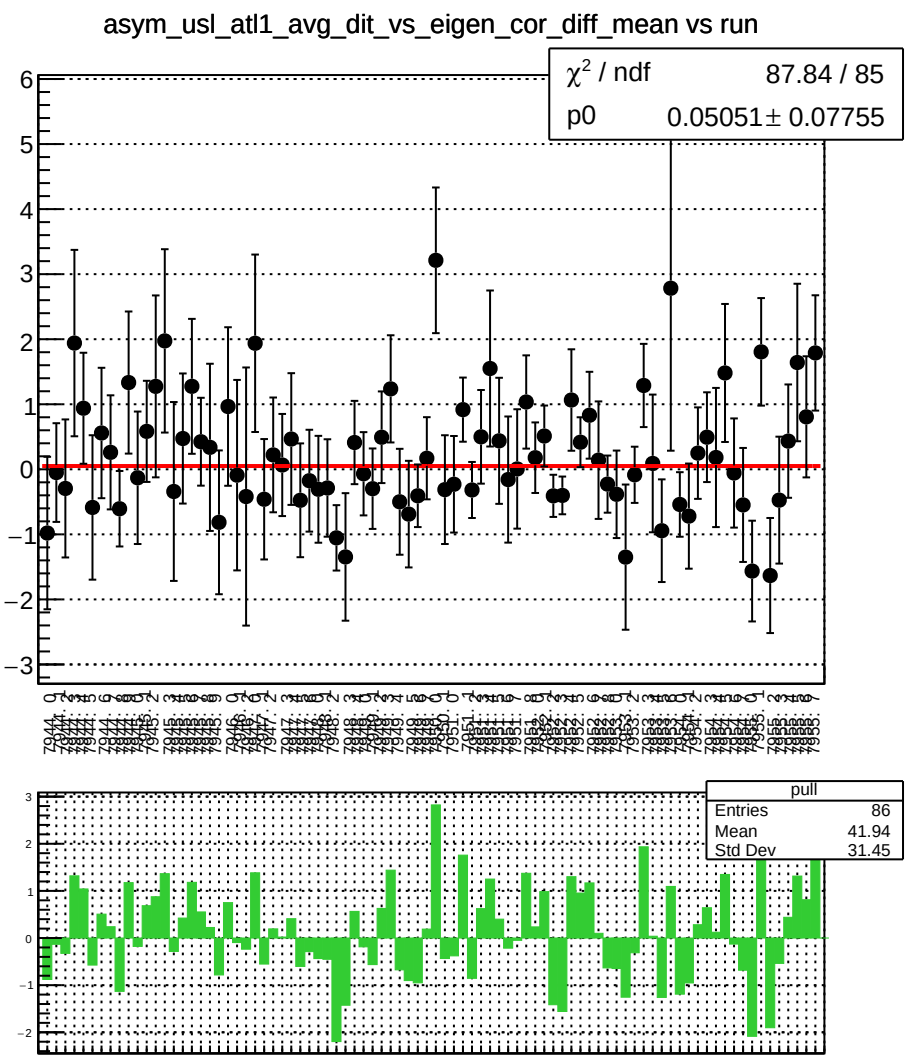

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.82 / 85
p0 7.925e−15 ± 1.048e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 86
Mean 41.16
Std Dev 23.32
pull1D
Entries 86
Mean −0.1616
Std Dev 1.032

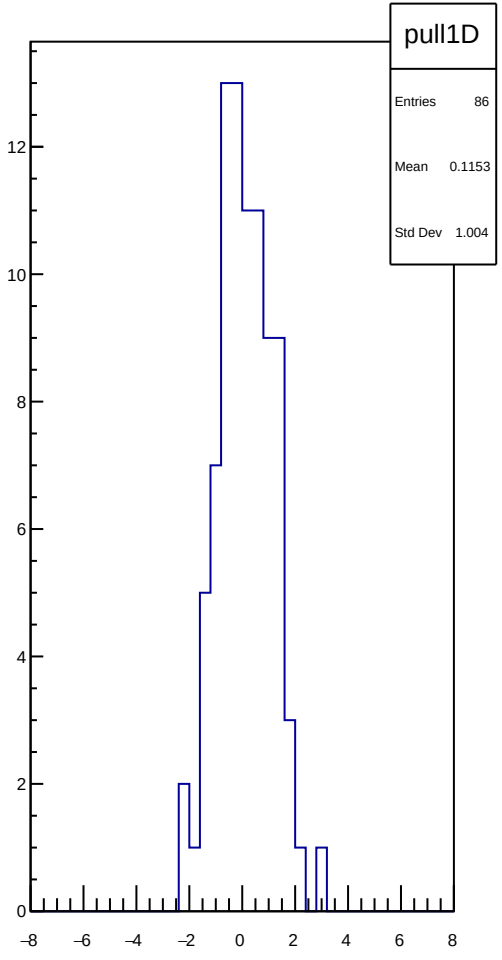

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.197e+05 / 85
p0 6.627e−11 ± 7.411e−14
1.2
1
0.8
0.6
0.4
0.2
0

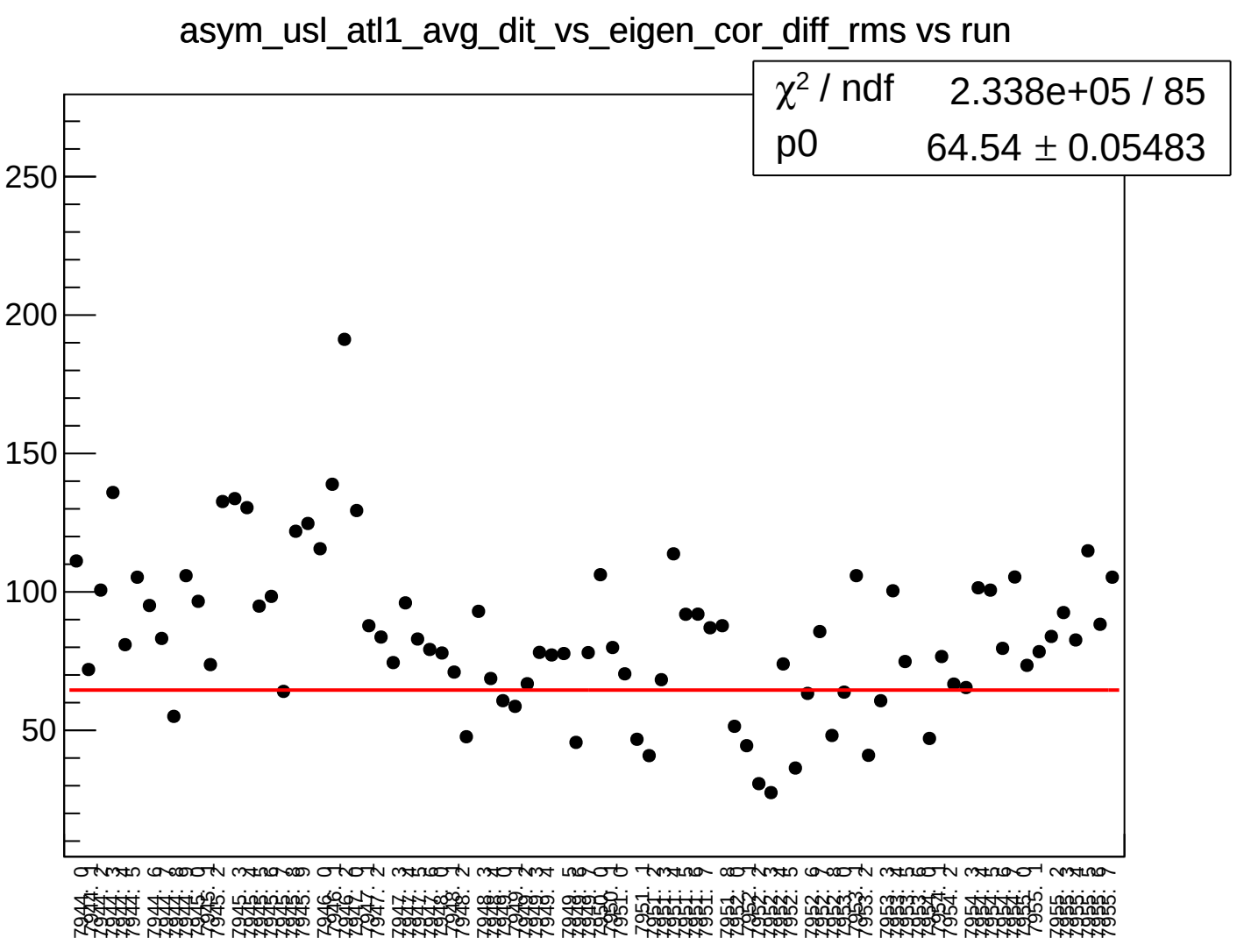

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.84 / 85
p0 0.05051 ± 0.07755
pull
Entries 86
Mean 41.94
Std Dev 31.45

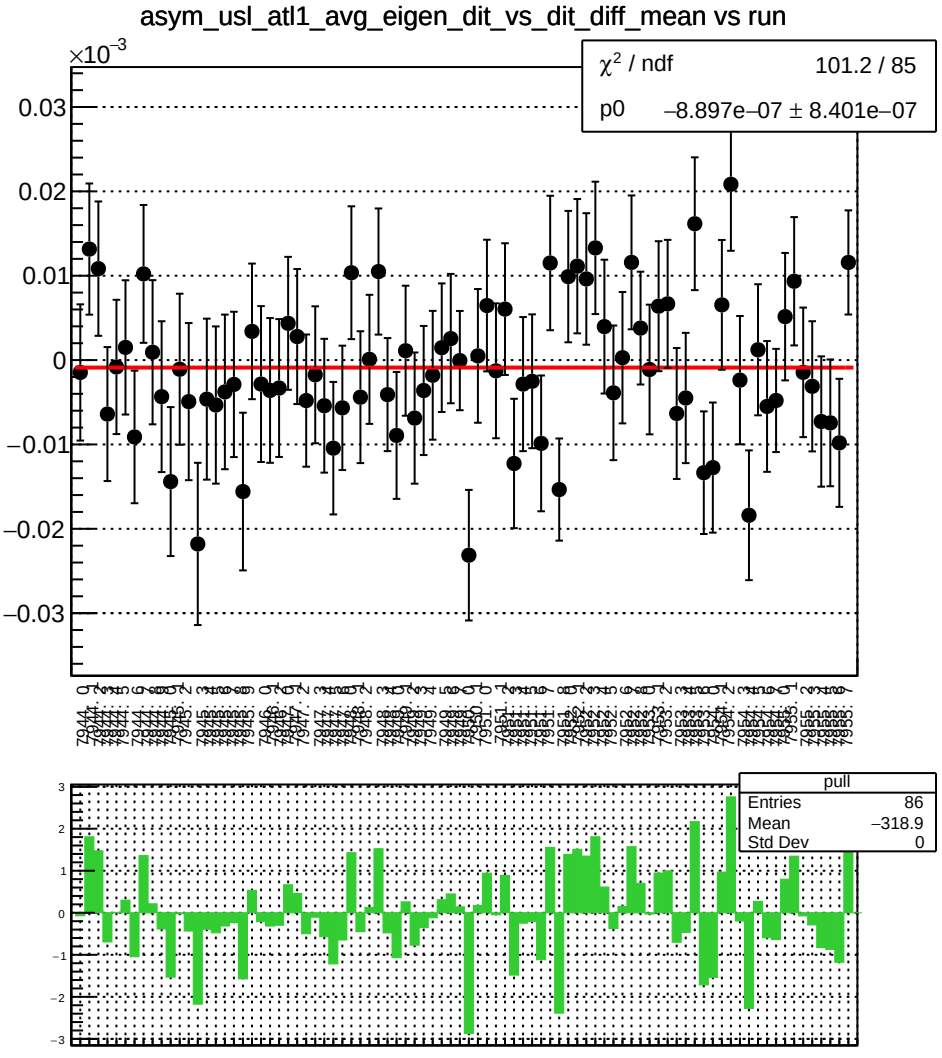

pull1D
Entries 86
Mean 0.1153
Std Dev 1.004

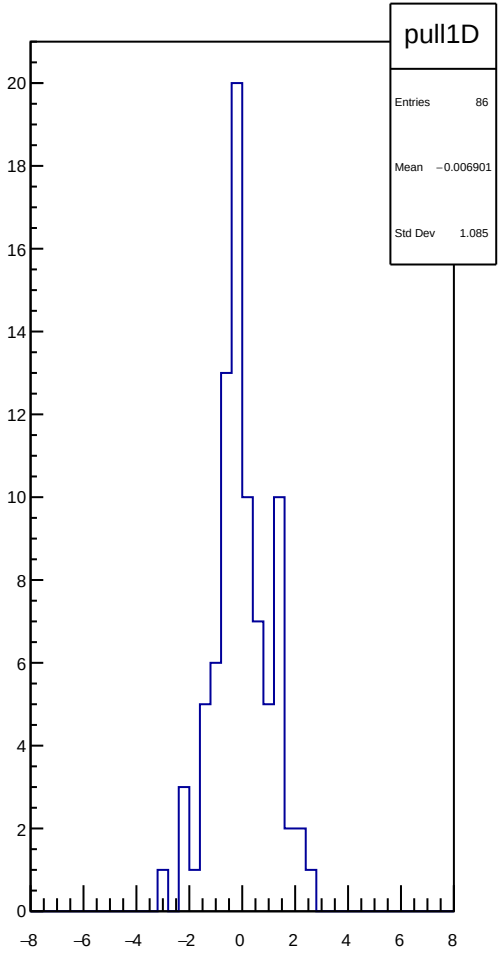

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.338e+05 / 85
p0 64.54 ± 0.05483
250
200
150
100
50

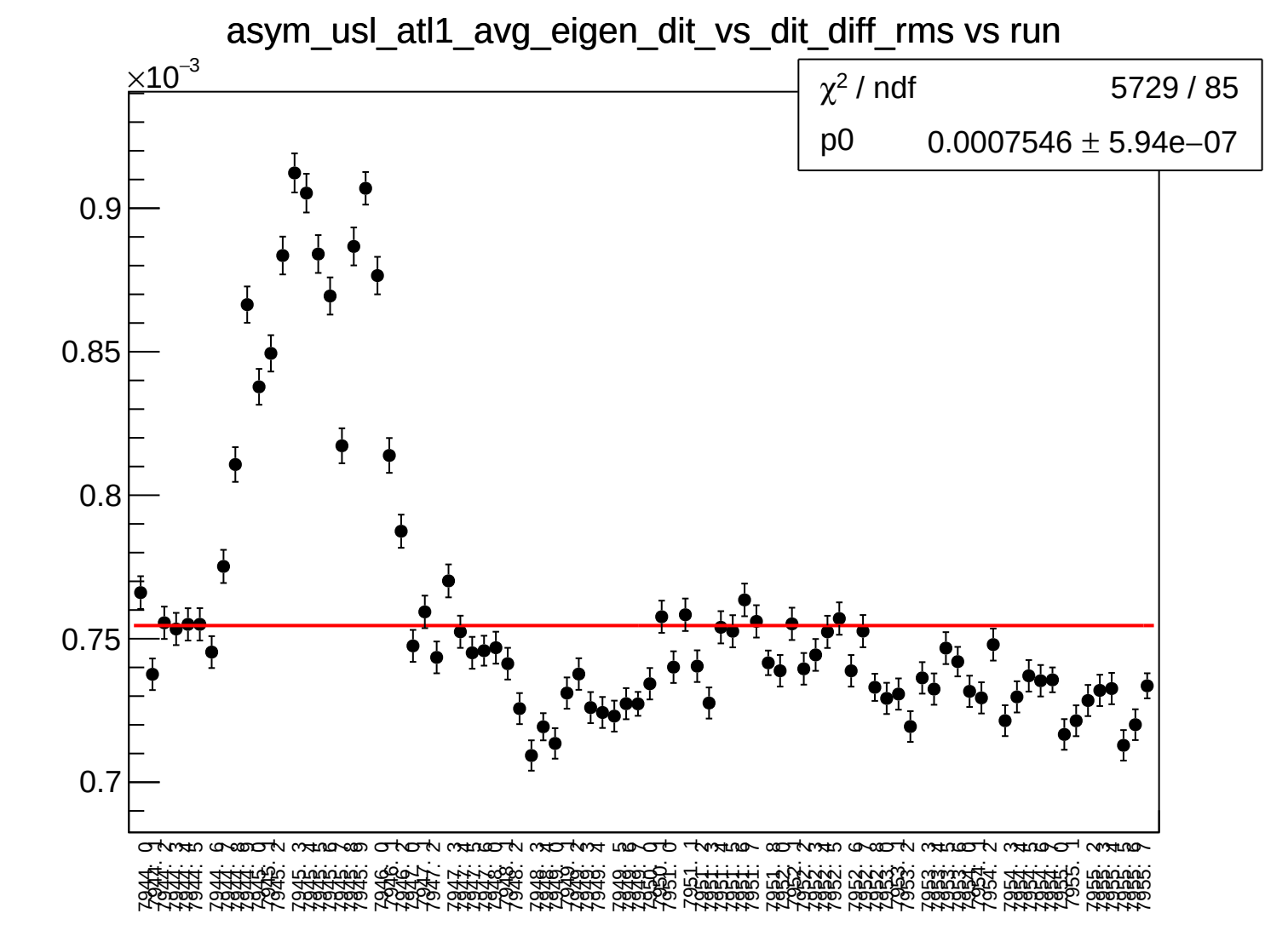

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.84 / 85
p0 0.05051 ± 0.07755
pull
Entries 86
Mean 41.94
Std Dev 31.45

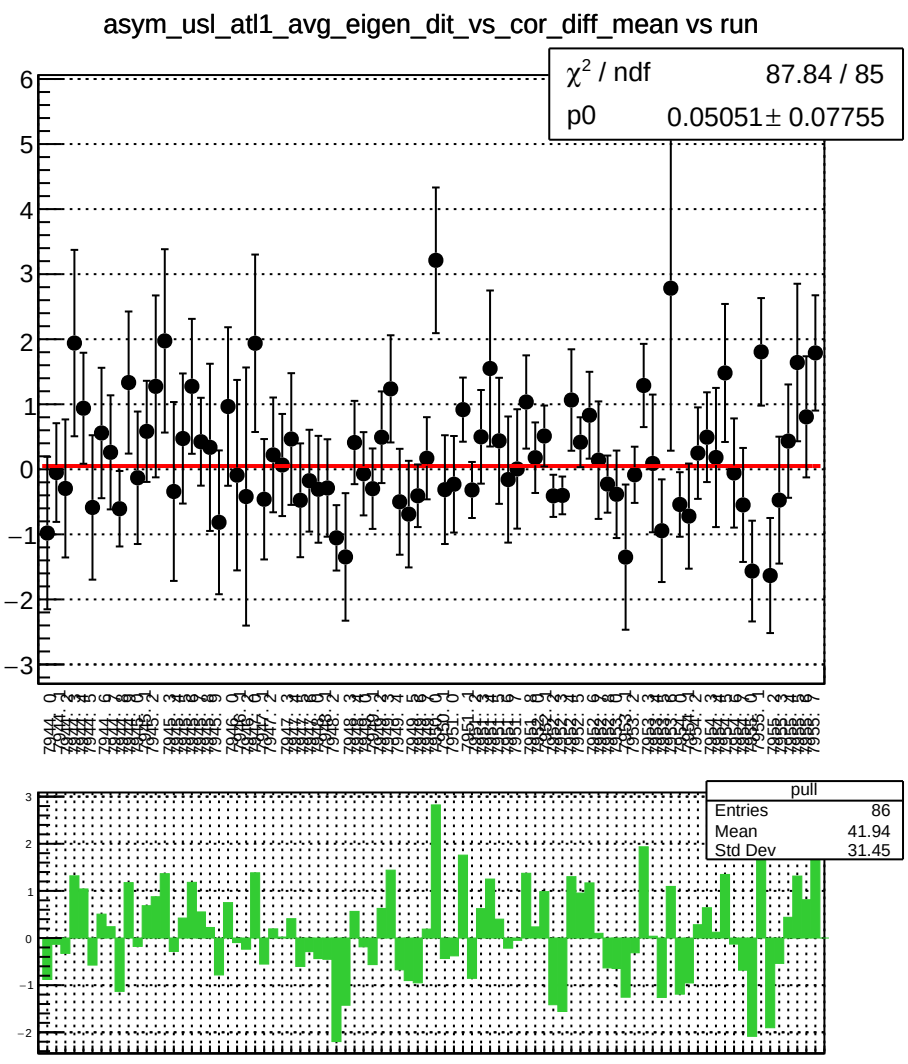

pull1D
Entries 86
Mean 0.1153
Std Dev 1.004

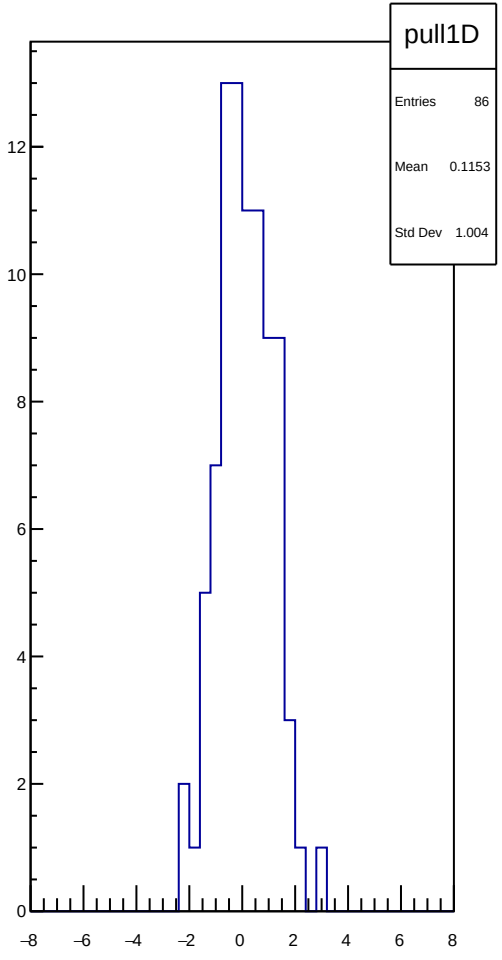

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.338e+05 / 85
p0 64.54 ± 0.05483
250
200
150
100
50

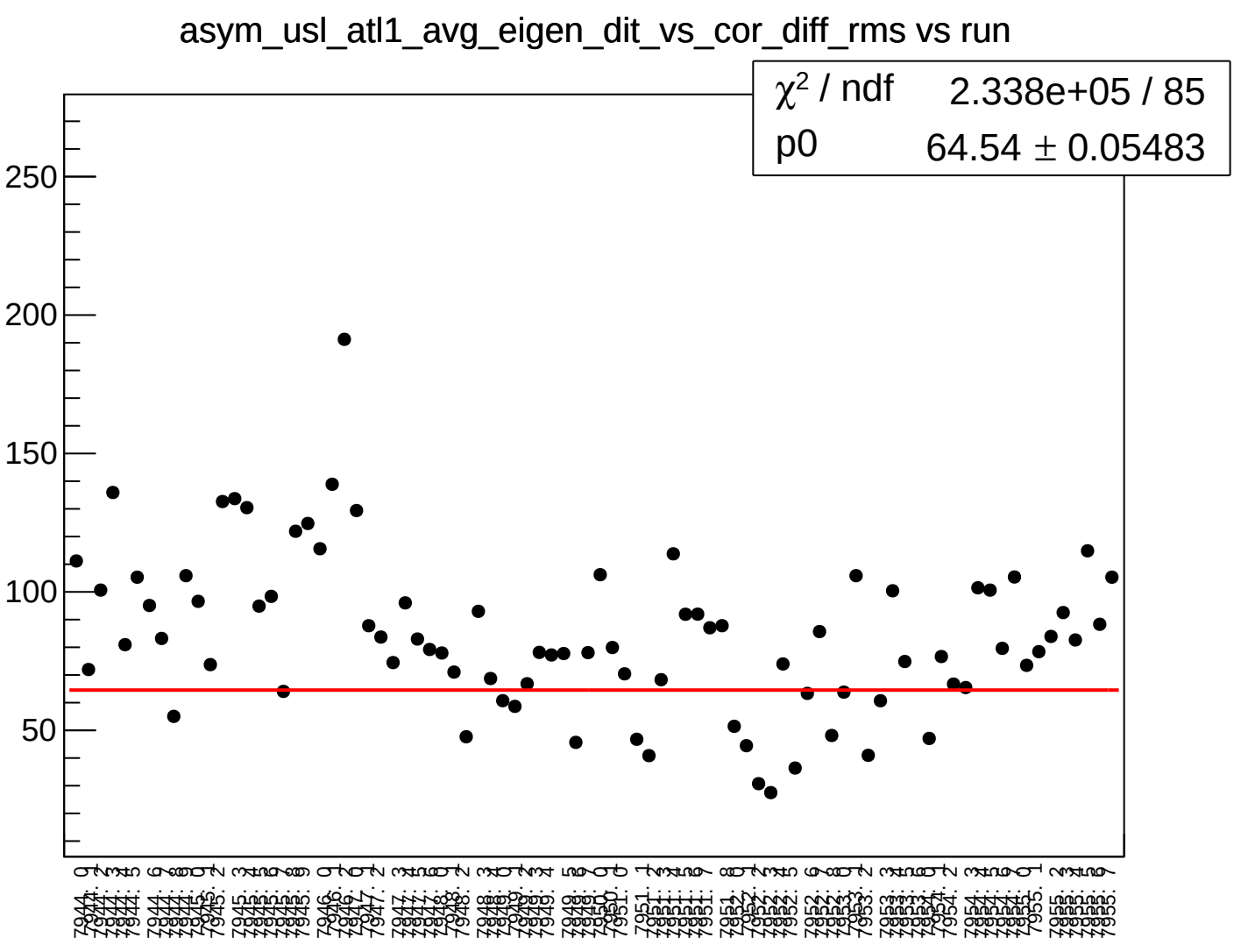

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 101.2 / 85
p0 −8.897e−07 ± 8.401e−07
pull
Entries 86
Mean −318.9
Std Dev 0

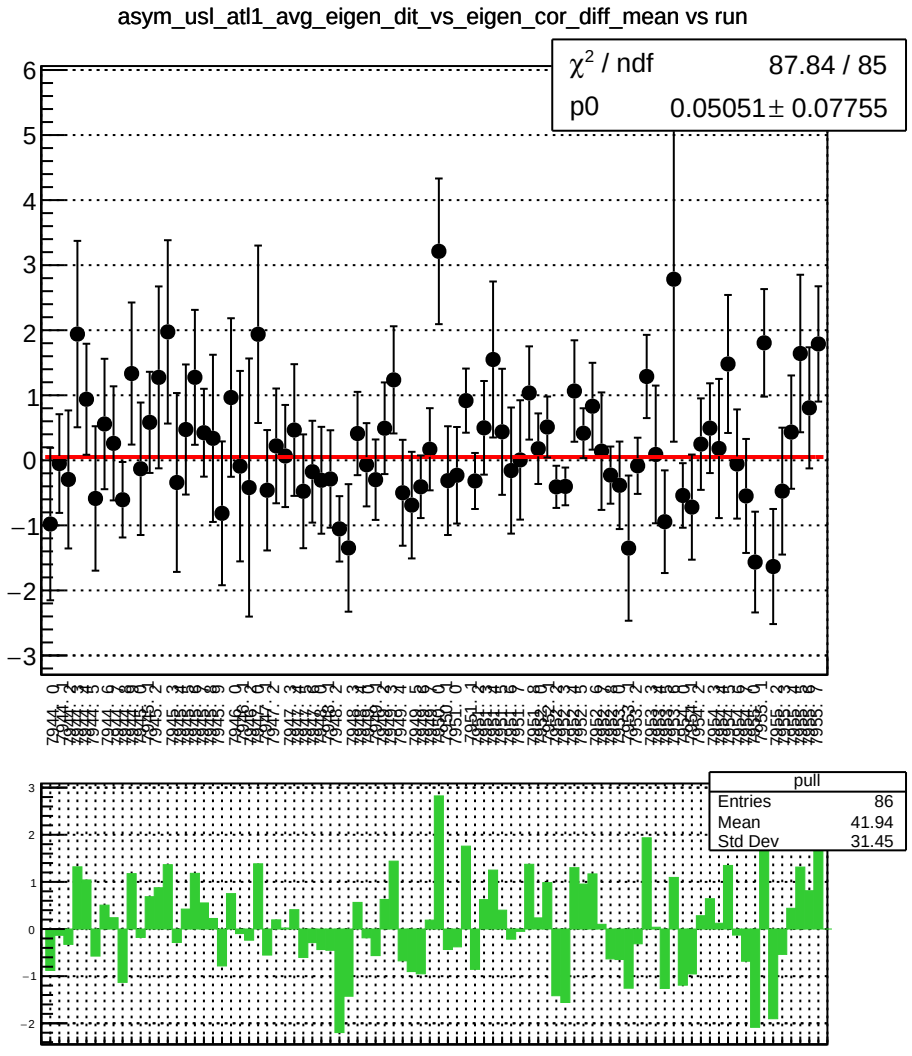

pull1D
Entries 86
Mean −0.006901
Std Dev 1.085

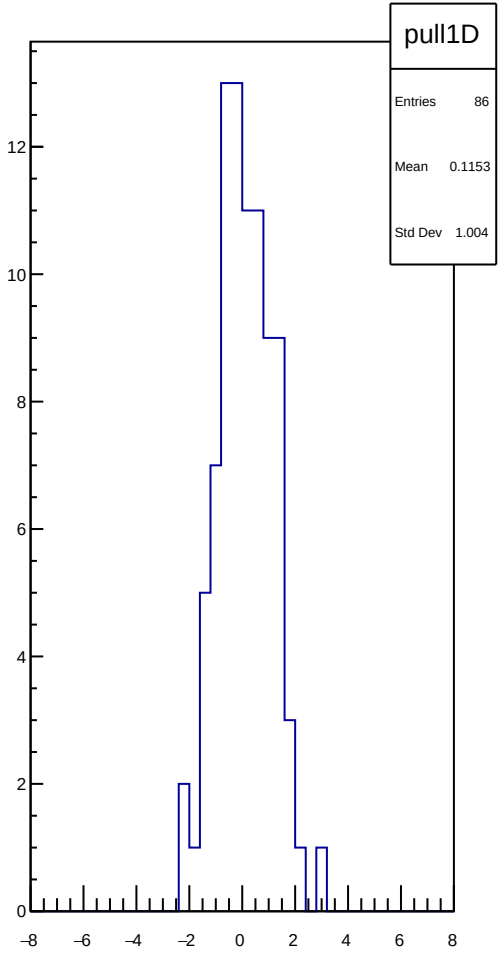

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 5729 / 85
p0 0.0007546 ± 5.94e−07
0.9
0.85
0.8
0.75
0.7

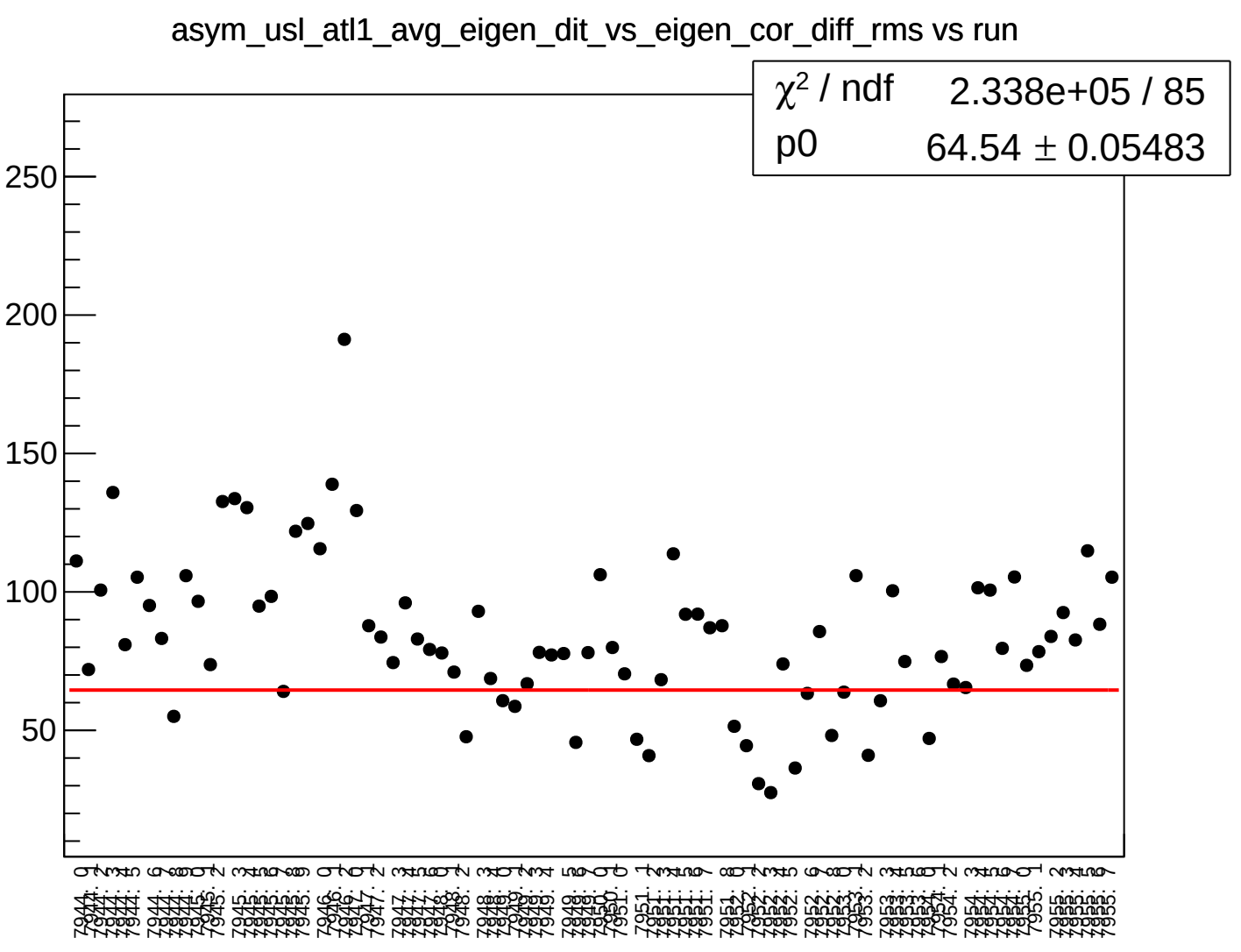

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.84 / 85
p0 0.05051 ± 0.07755
pull
Entries 86
Mean 41.94
Std Dev 31.45

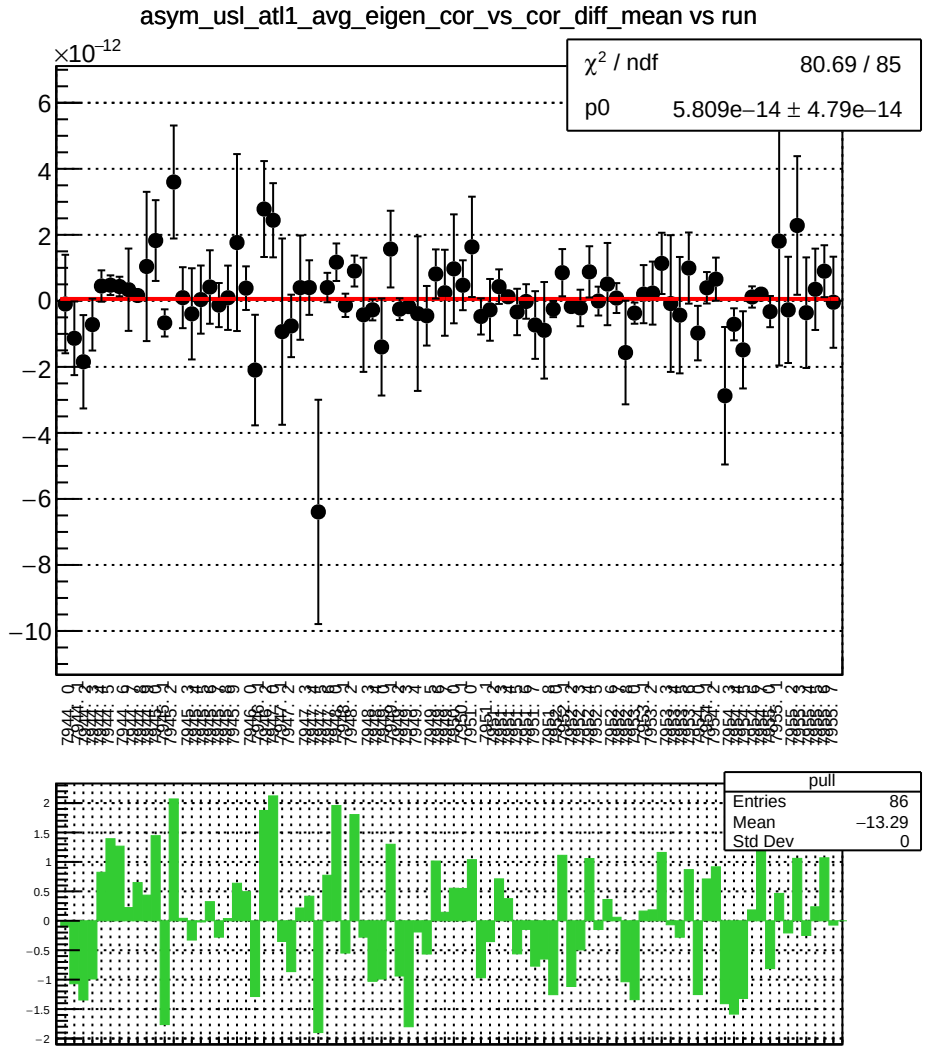

pull1D
Entries 86
Mean 0.1153
Std Dev 1.004

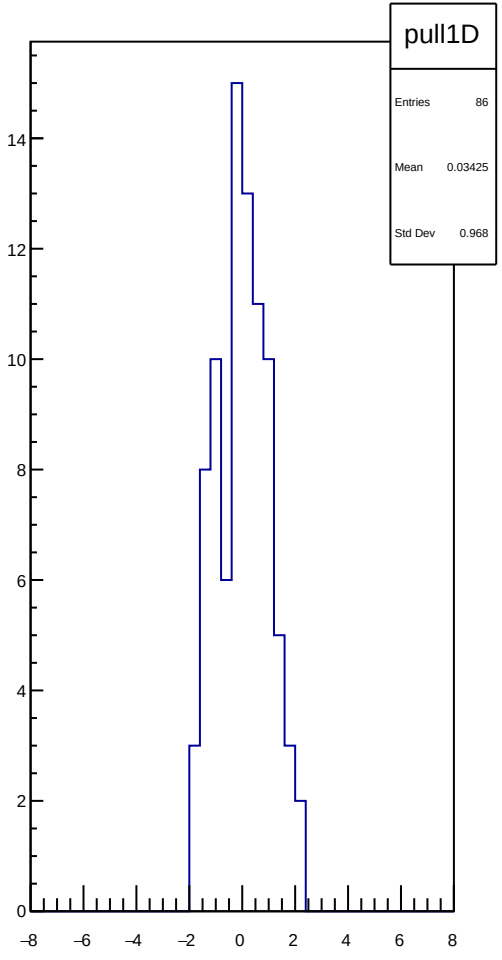

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.338e+05 / 85
p0 64.54 ± 0.05483
250
200
150
100
50

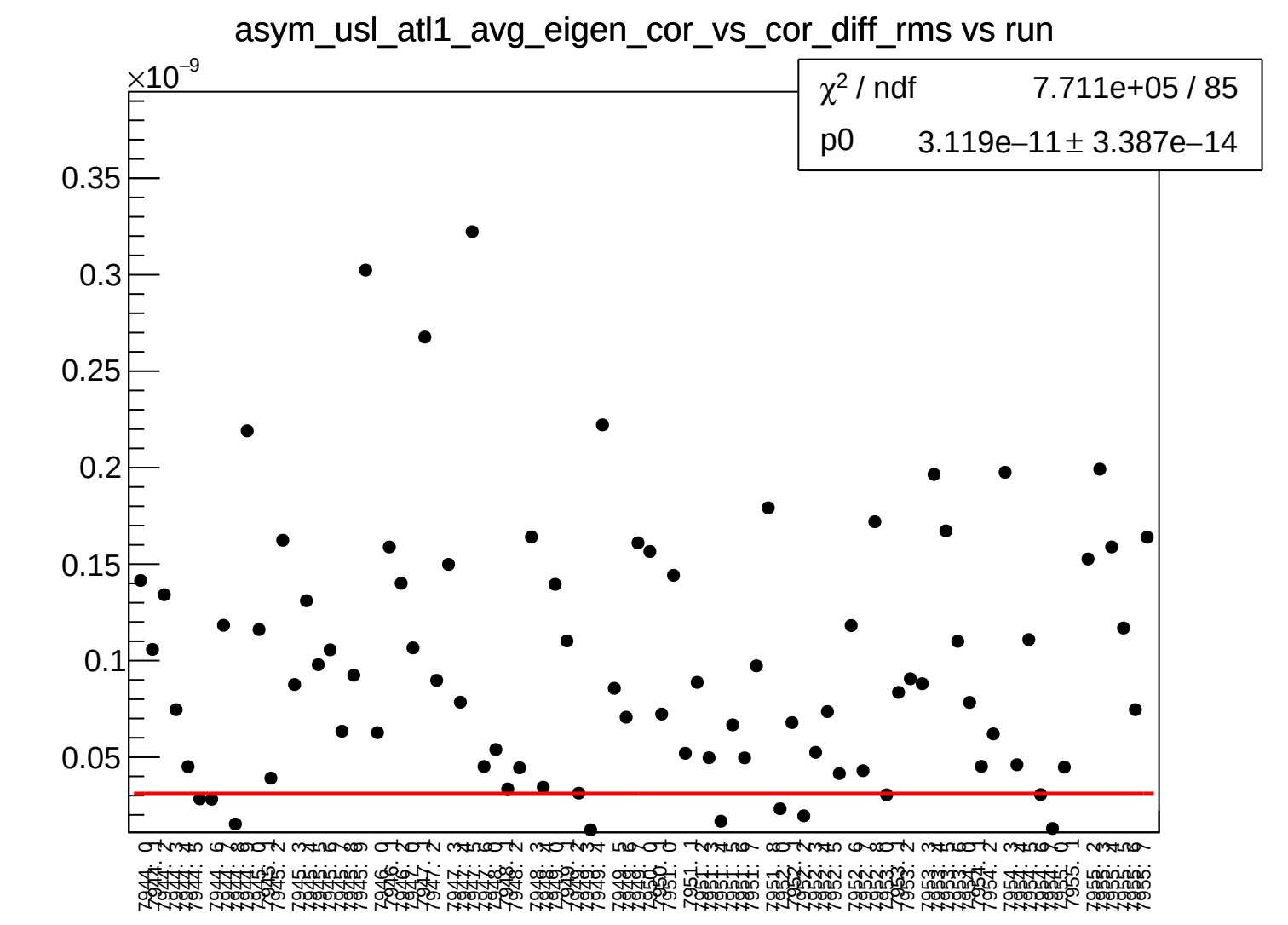

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.84 / 85
p0 0.05051 ± 0.07755
pull
Entries 86
Mean 41.94
Std Dev 31.45

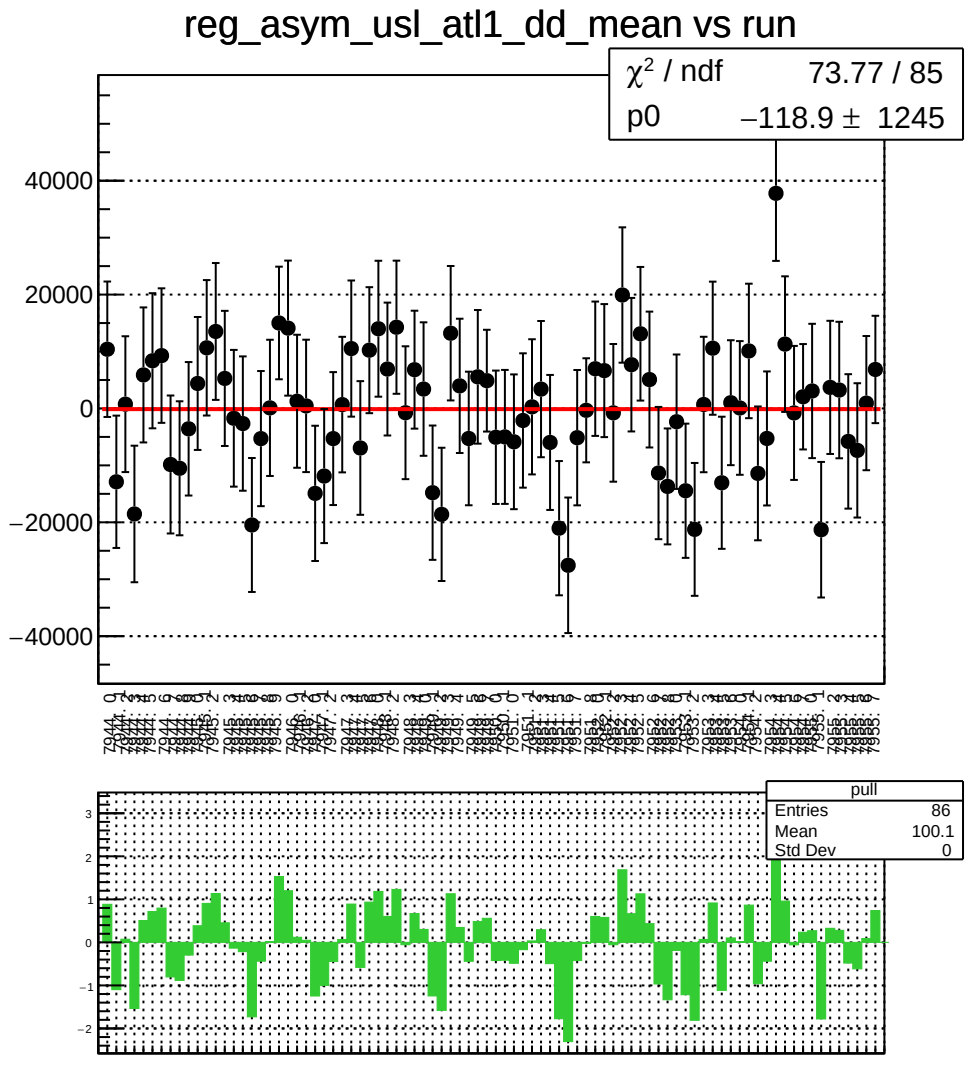

pull1D
Entries 86
Mean 0.1153
Std Dev 1.004

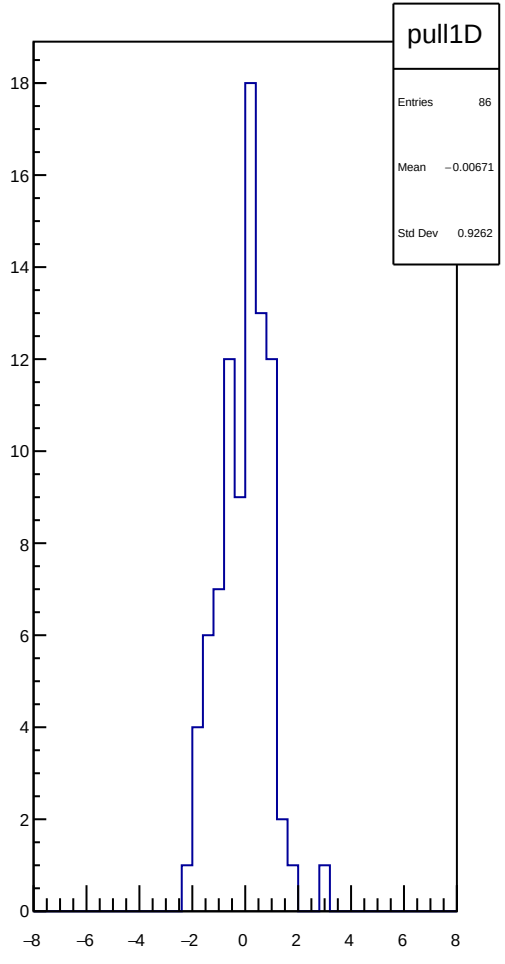

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.338e+05 / 85
p0 64.54 ± 0.05483
250
200
150
100
50

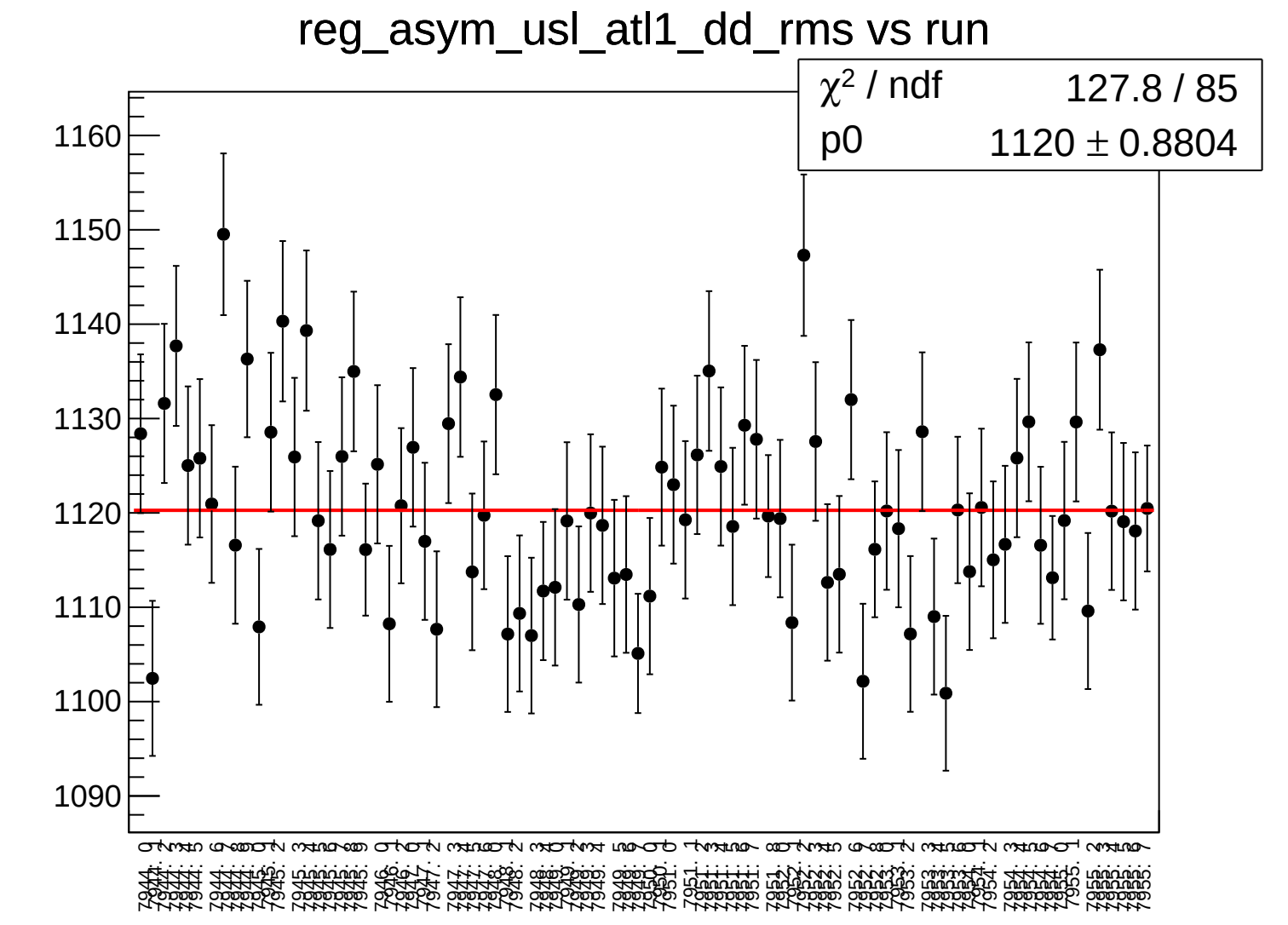

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.69 / 85
p0 5.809e−14 ± 4.79e−14
pull
Entries 86
Mean −13.29
Std Dev 0

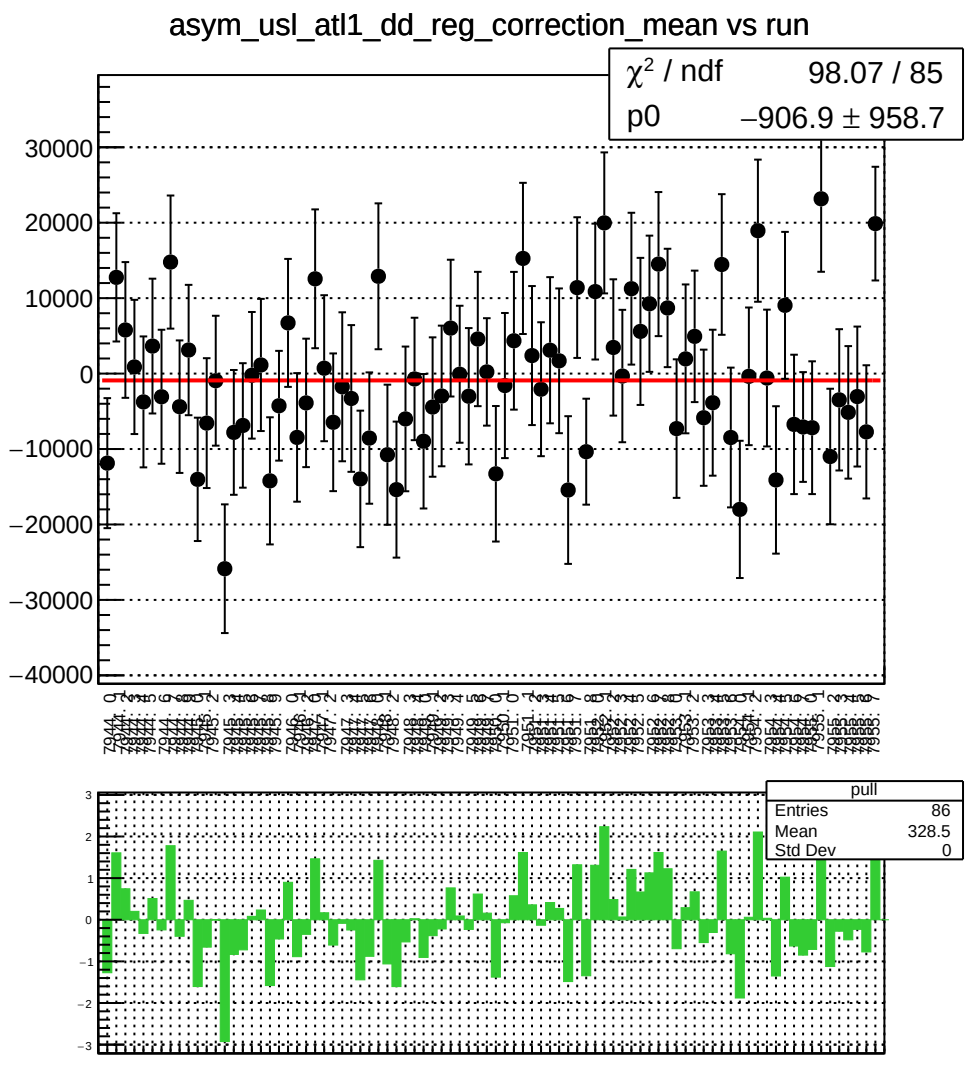

pull1D
Entries 86
Mean 0.03425
Std Dev 0.968

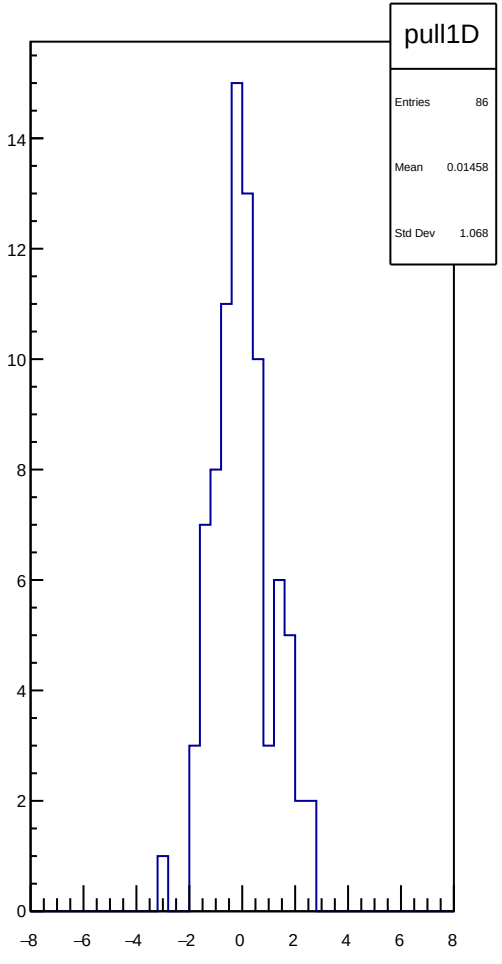

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.711e+05 / 85
p0 3.119e−11 ± 3.387e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

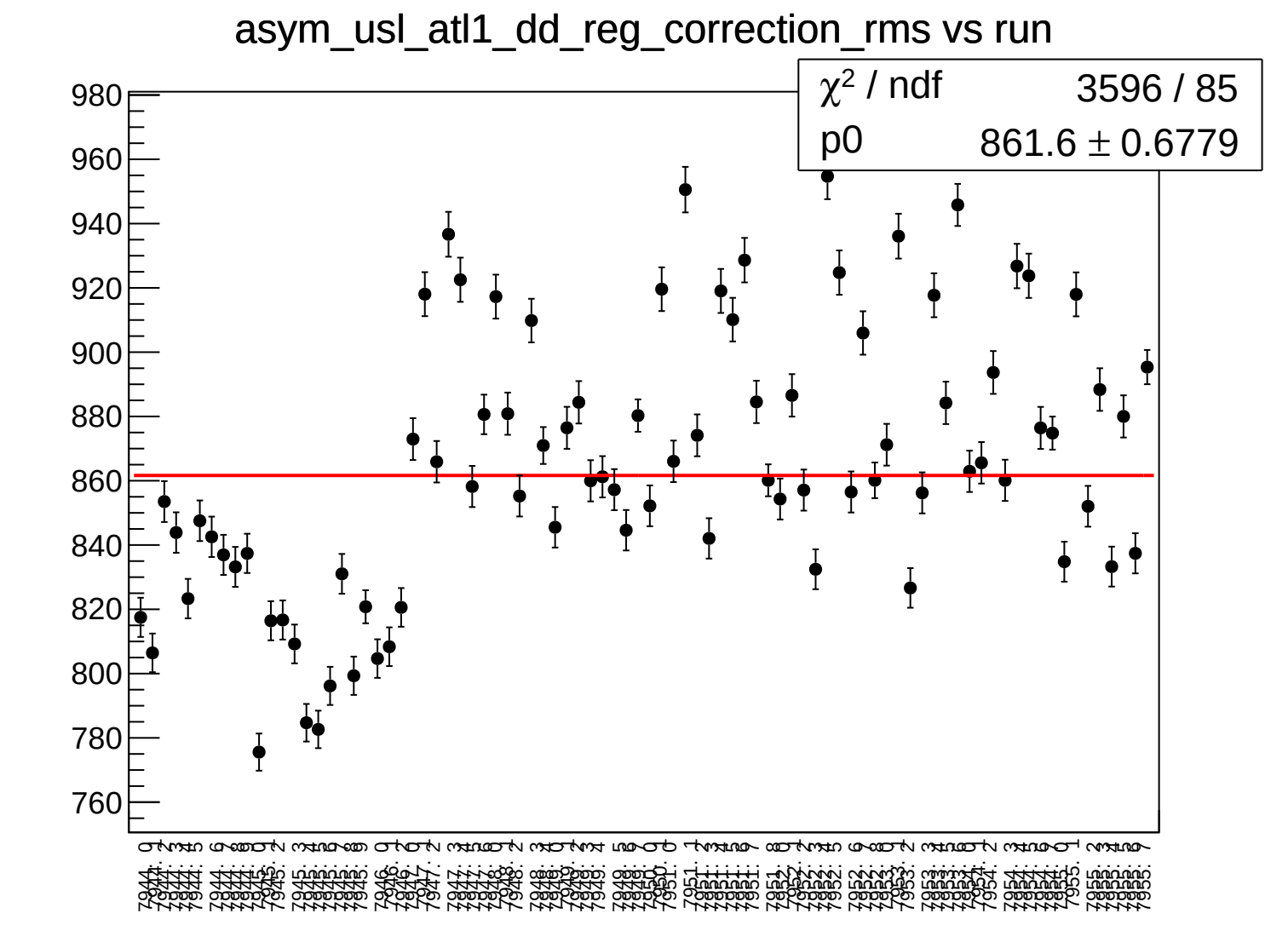

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 73.77 / 85
p0 −118.9 ± 1245
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 100.1
Std Dev 0
3
2
1
0
−1
−2

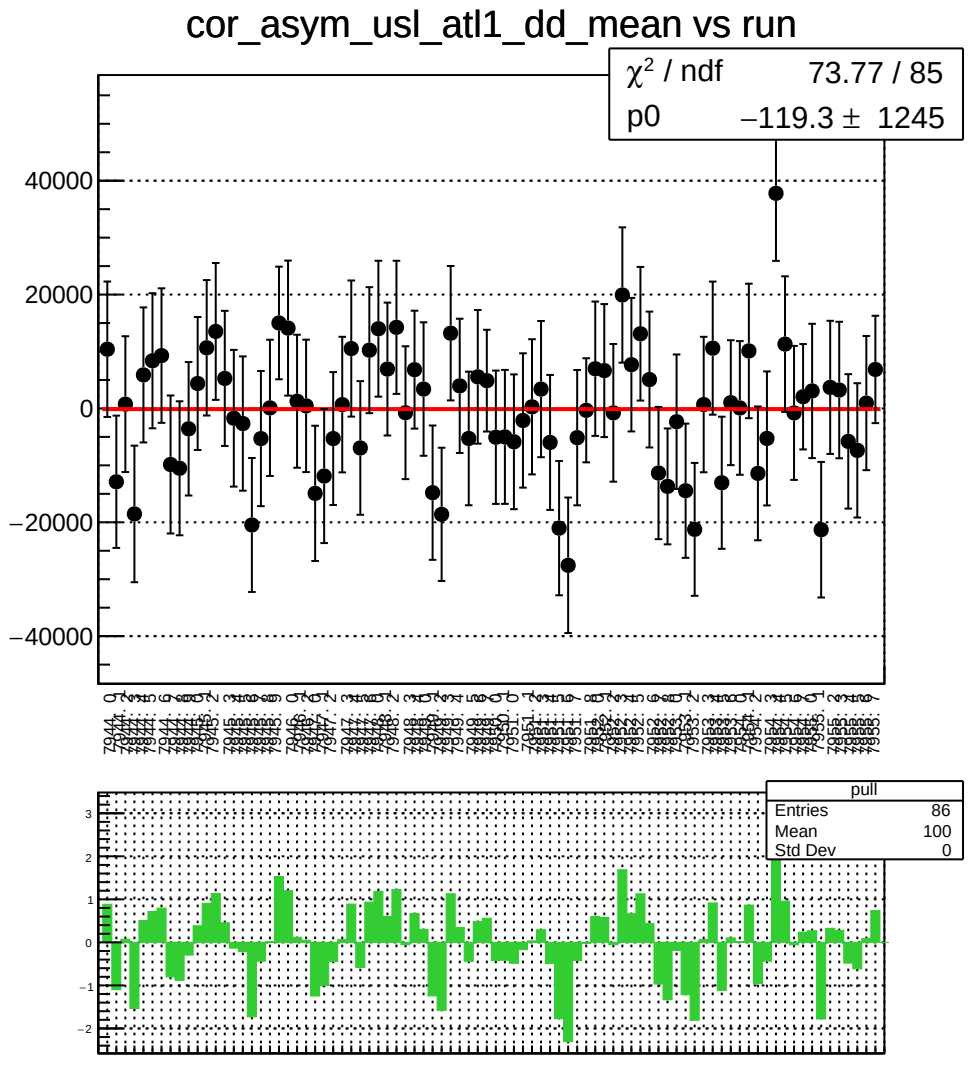

pull1D
Entries 86
Mean −0.00671
Std Dev 0.9262
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

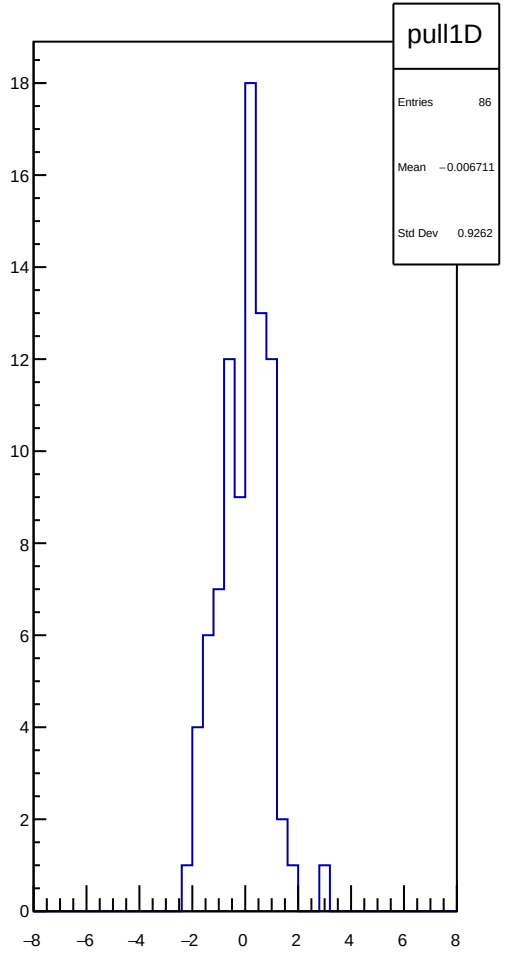

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 127.8 / 85
p0 1120 ± 0.8804
1160
1150
1140
1130
1120
1110
1100
1090

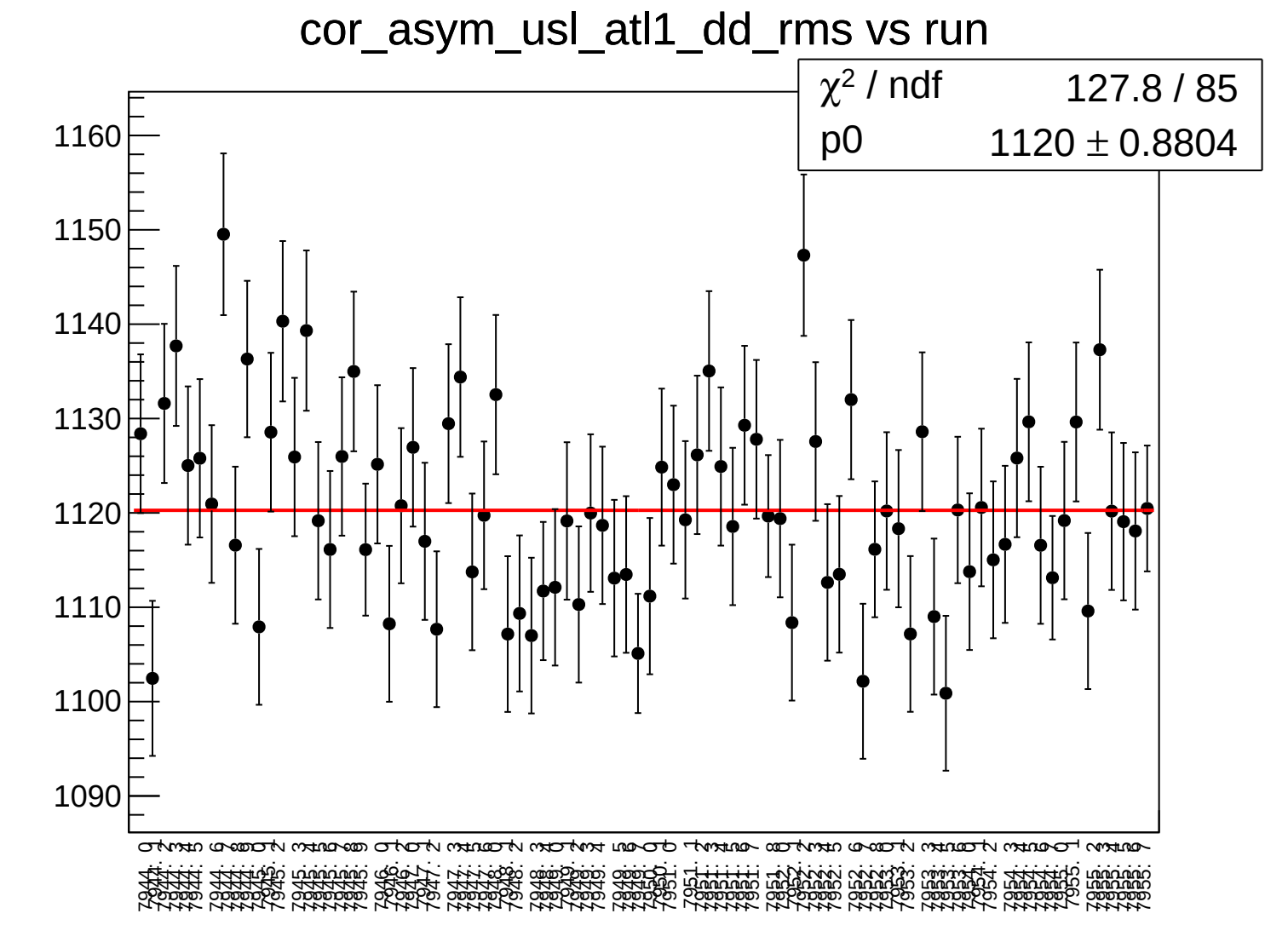

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 98.07 / 85
p0 −906.9 ± 958.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 328.5
Std Dev 0
3
2
1
0
−1
−2
−3

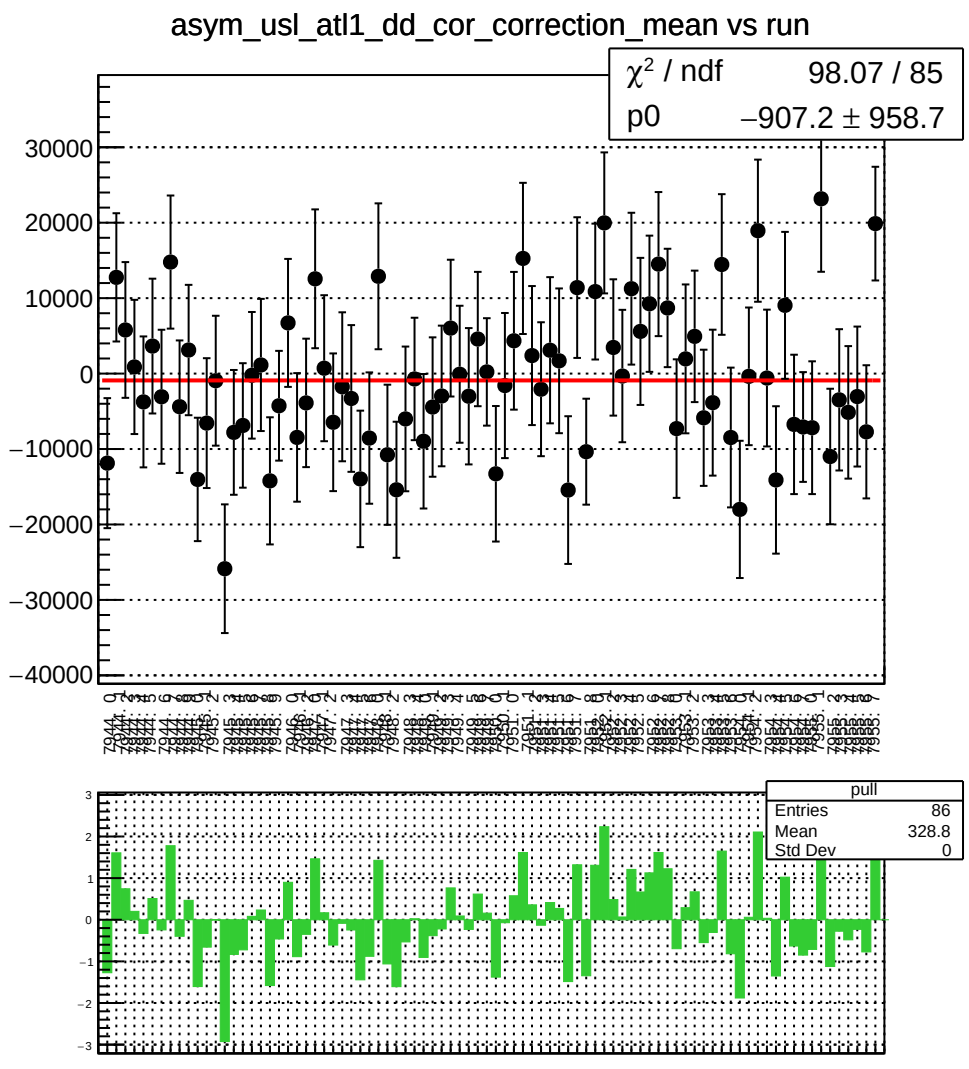

pull1D
Entries 86
Mean 0.01458
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

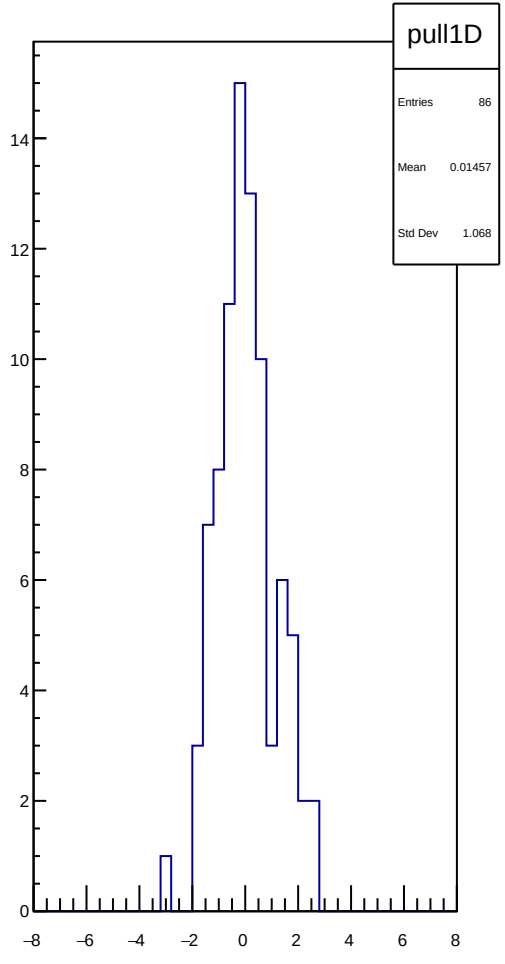

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 3596 / 85
p0 861.6 ± 0.6779
980
960
940
920
900
880
860
840
820
800
780
760

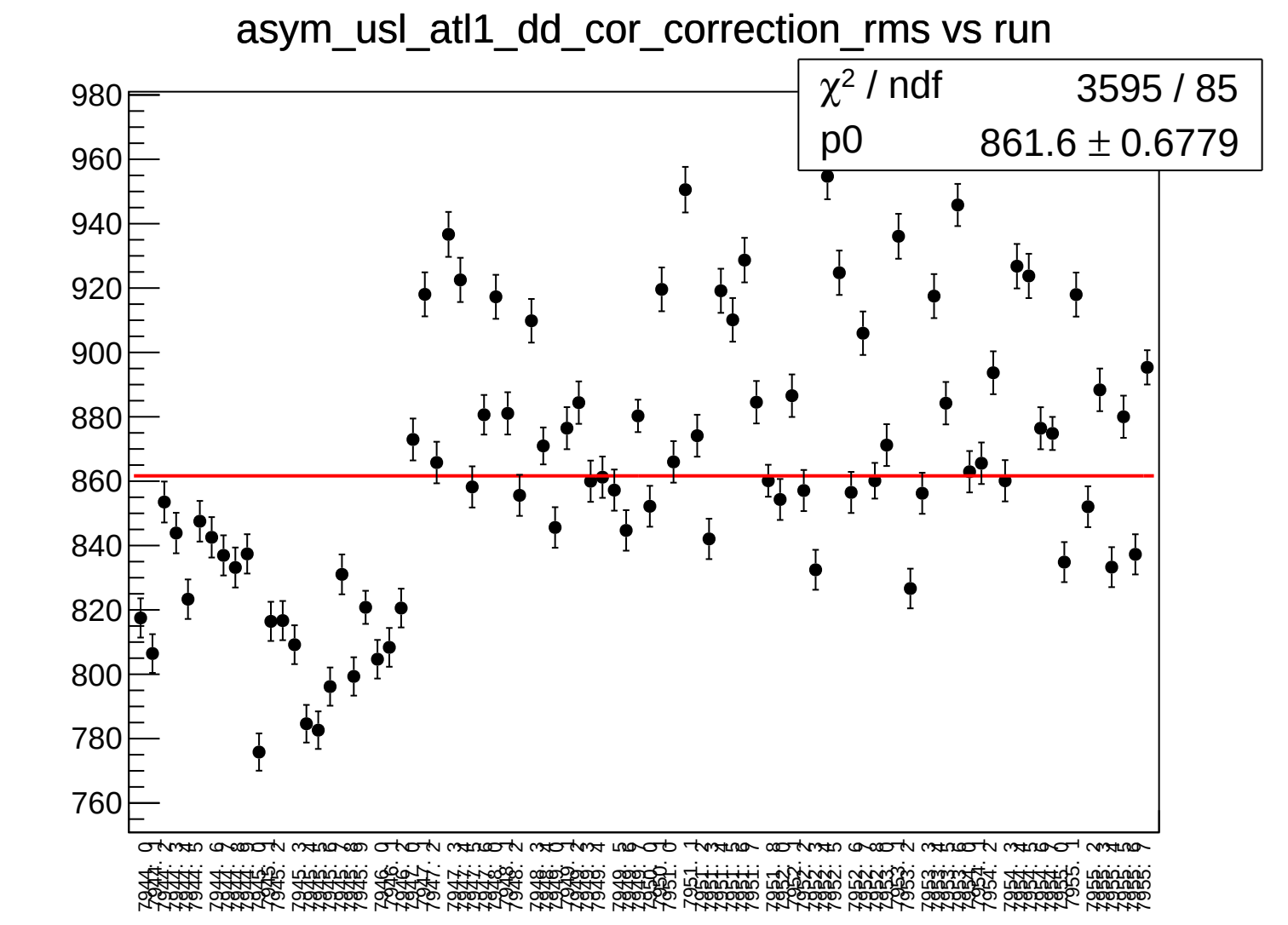

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 73.77 / 85
p0 −119.3 ± 1245
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 100
Std Dev 0
3
2
1
0
−1
−2

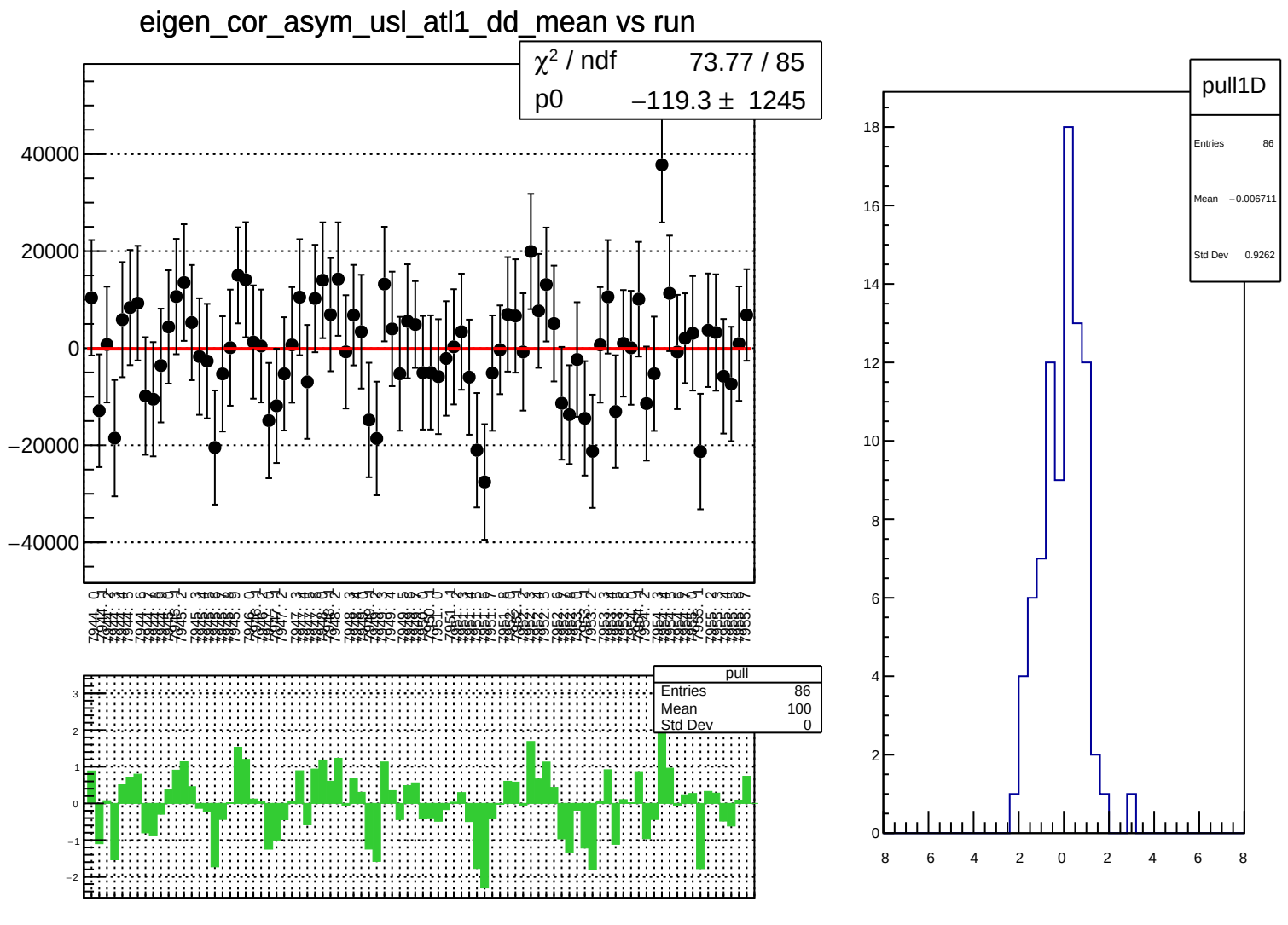

pull1D
Entries 86
Mean −0.006711
Std Dev 0.9262
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

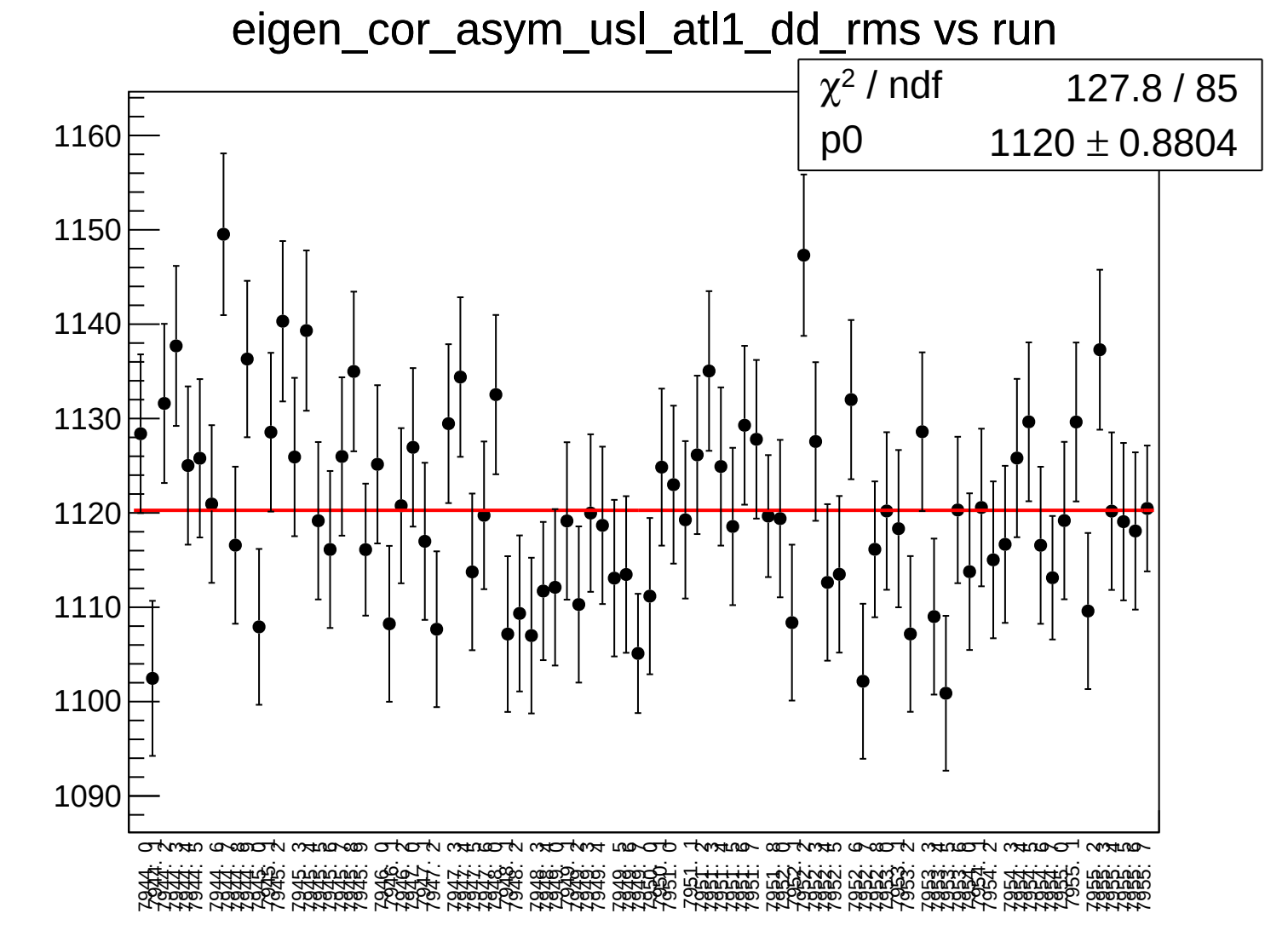

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 127.8 / 85
p0 1120 ± 0.8804
1160
1150
1140
1130
1120
1110
1100
1090

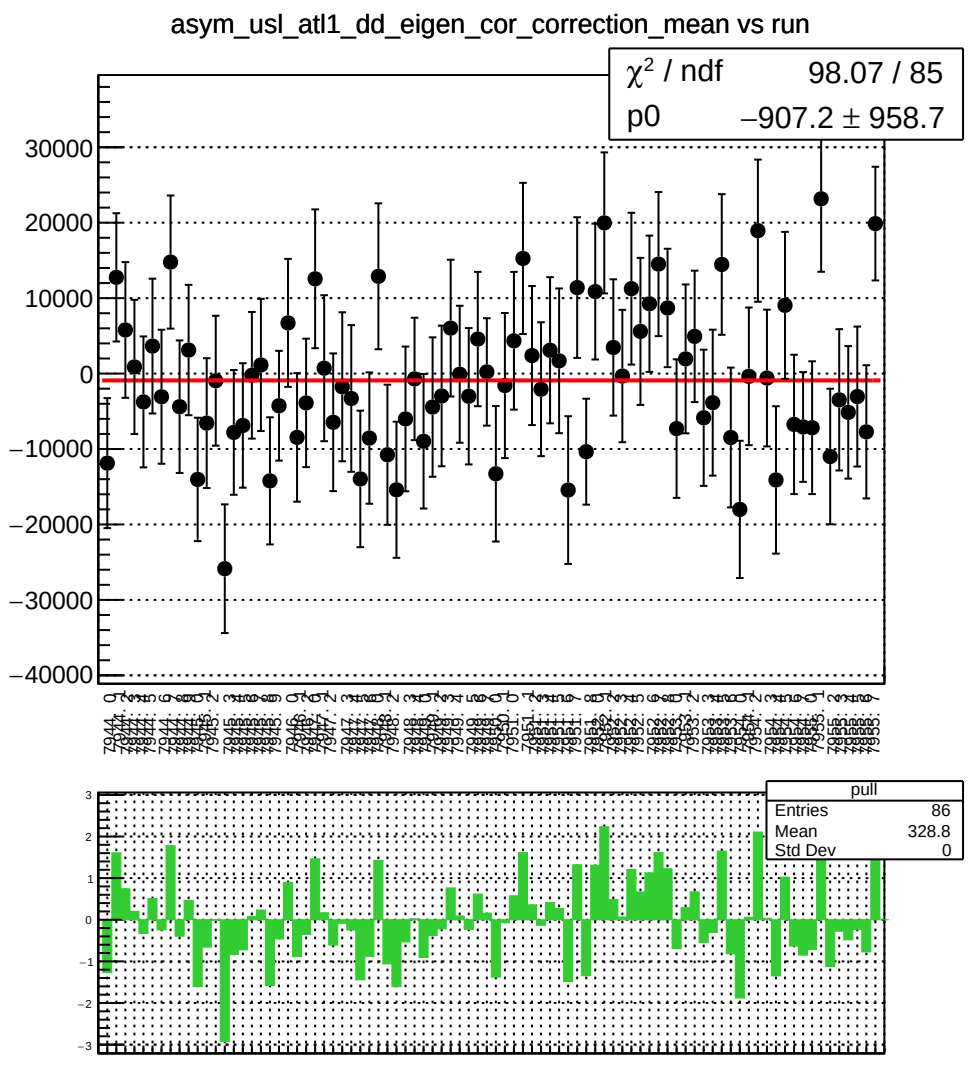

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 98.07 / 85
p0 −907.2 ± 958.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 328.8
Std Dev 0
3
2
1
0
−1
−2
−3

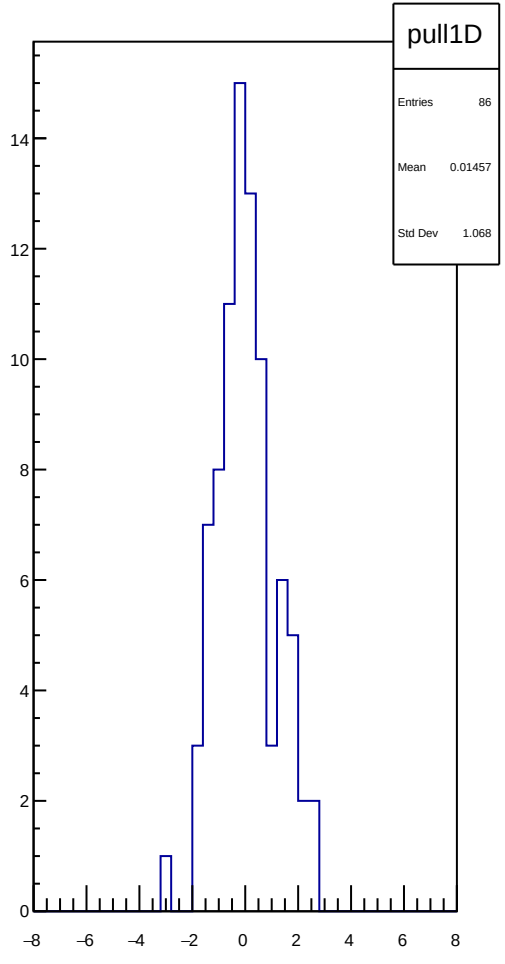

pull1D
Entries 86
Mean 0.01457
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

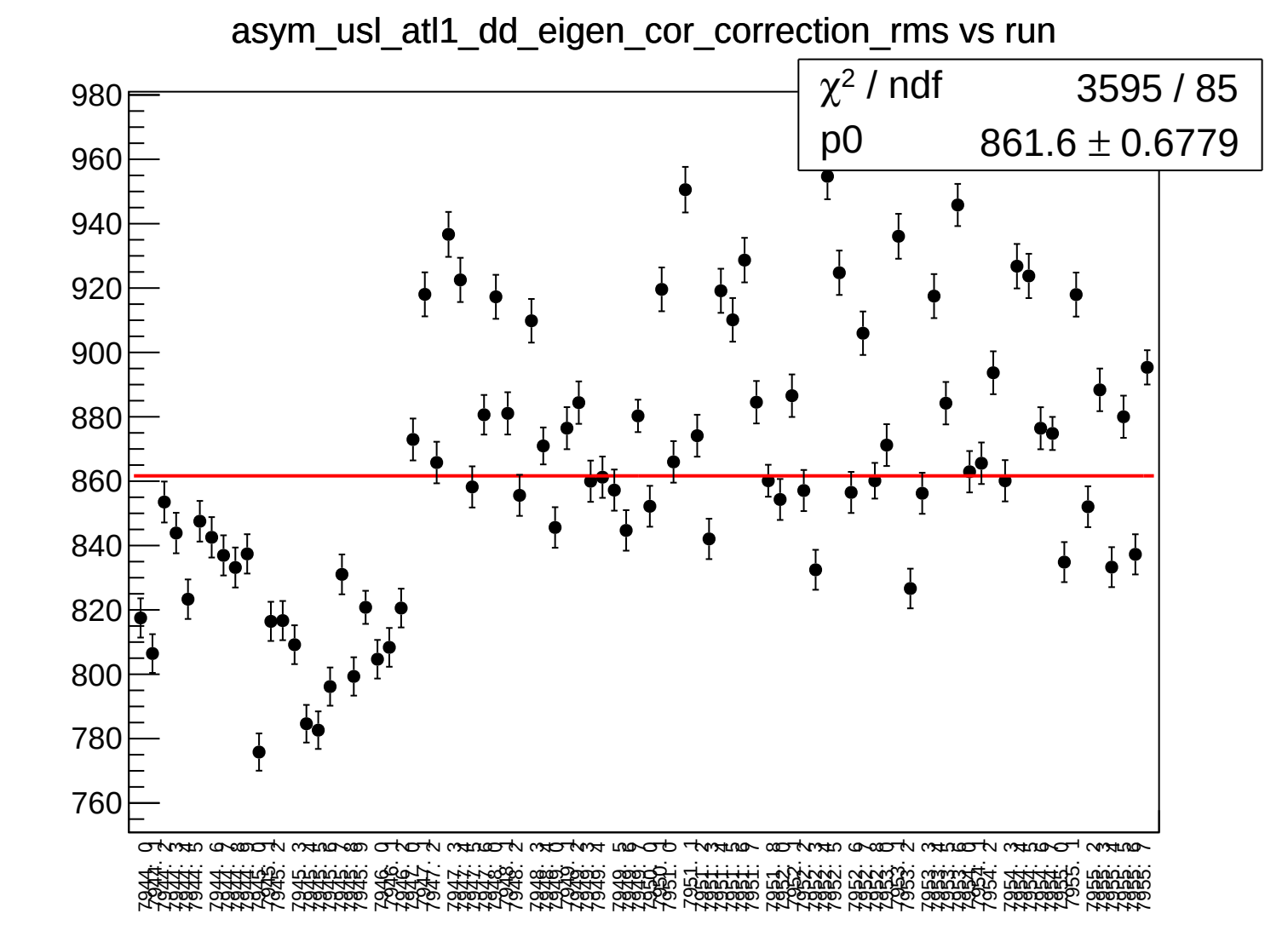

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 3595 / 85
p0 861.6 ± 0.6779
980
960
940
920
900
880
860
840
820
800
780
760

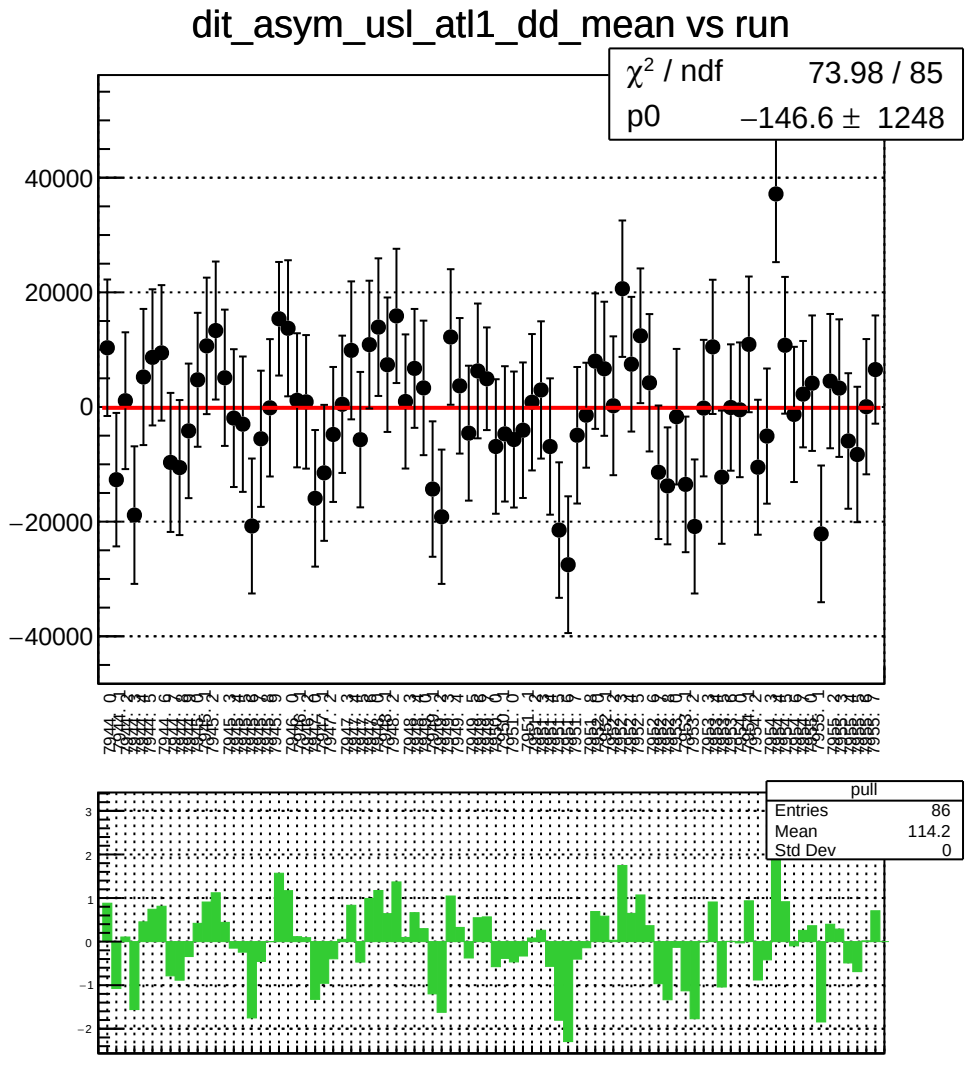

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 73.77 / 85
p0 −119.3 ± 1245
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 100
Std Dev 0
pull1D
Entries 86
Mean −0.006711
Std Dev 0.9262

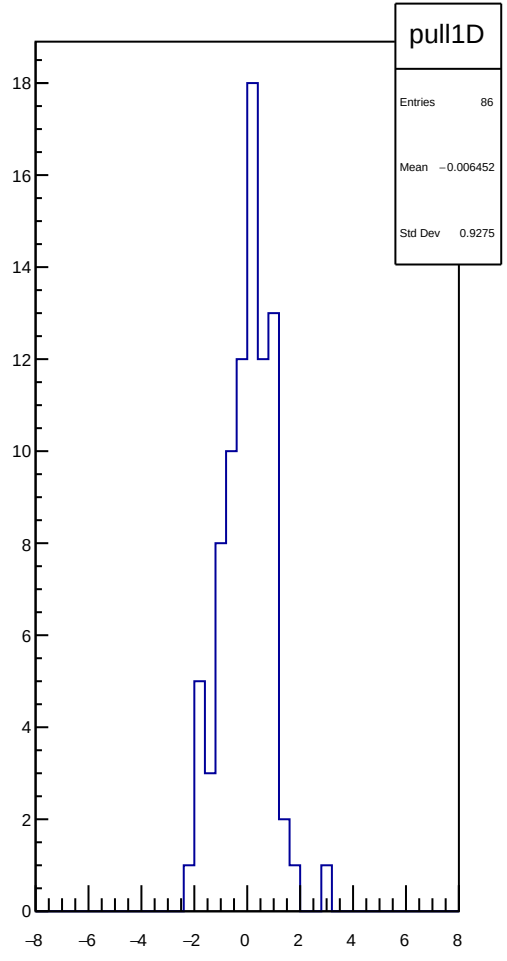

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 127.8 / 85
p0 1120 ± 0.8804
1160
1150
1140
1130
1120
1110
1100
1090

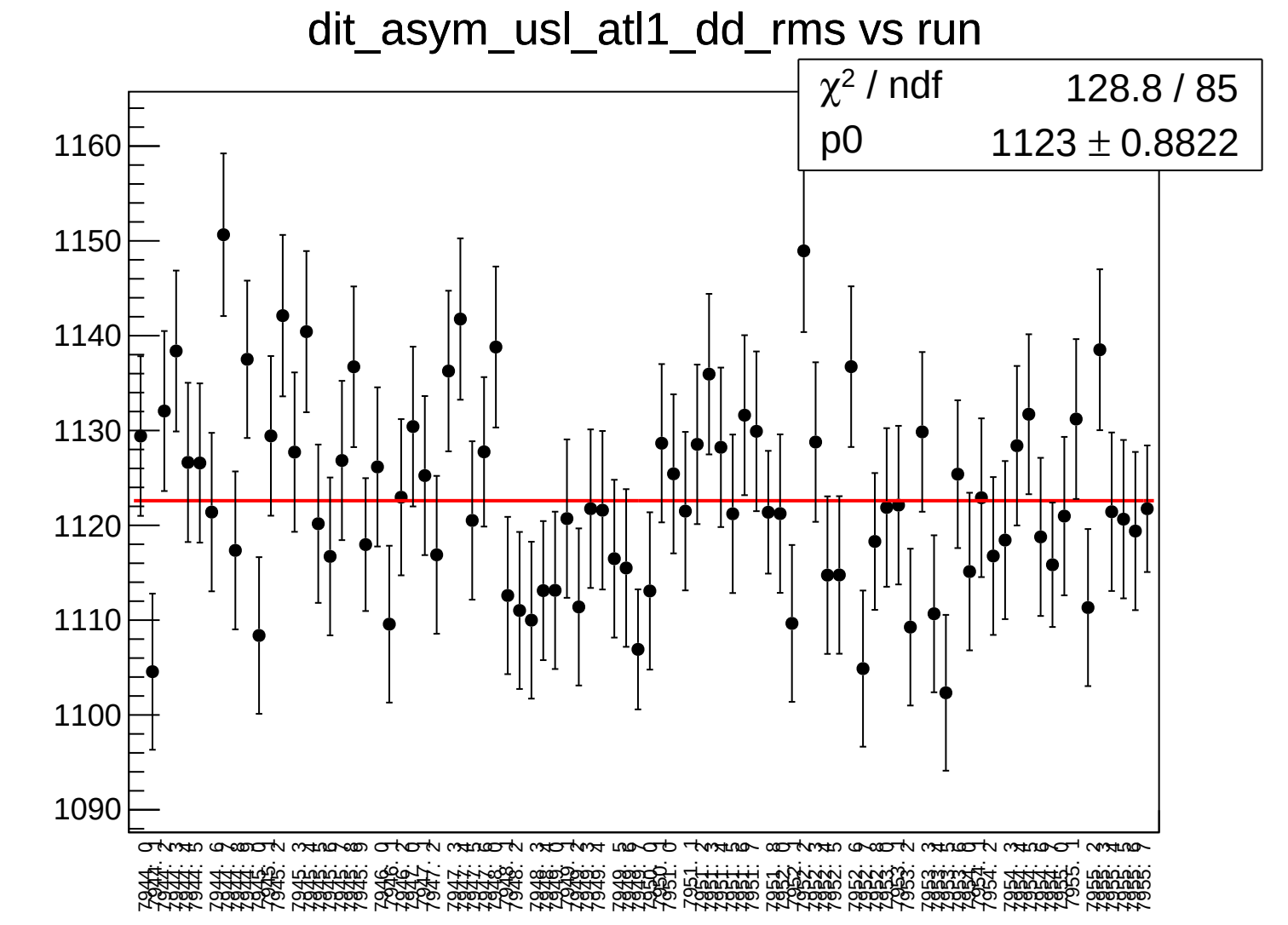

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.07 / 85
p0 −907.2 ± 958.7
pull
Entries 86
Mean 328.8
Std Dev 0

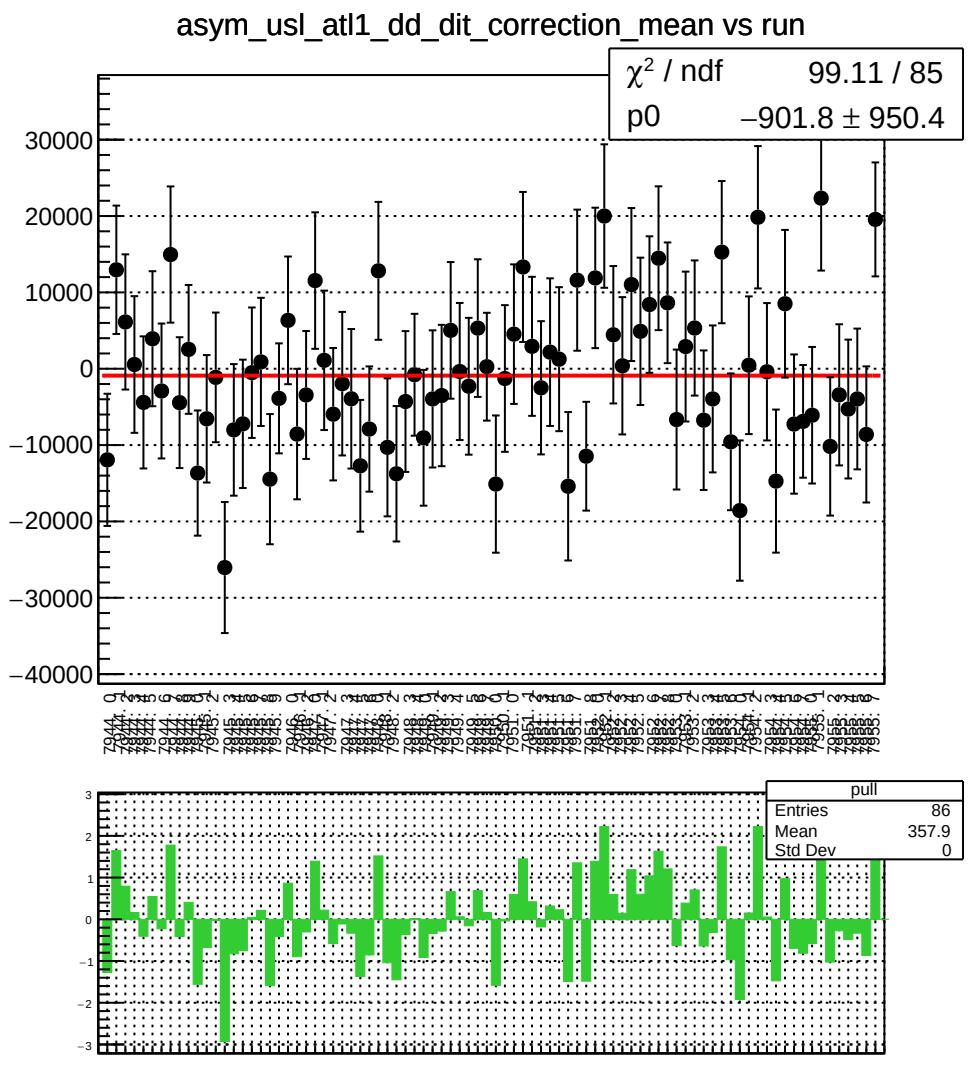

pull1D
Entries 86
Mean 0.01457
Std Dev 1.068

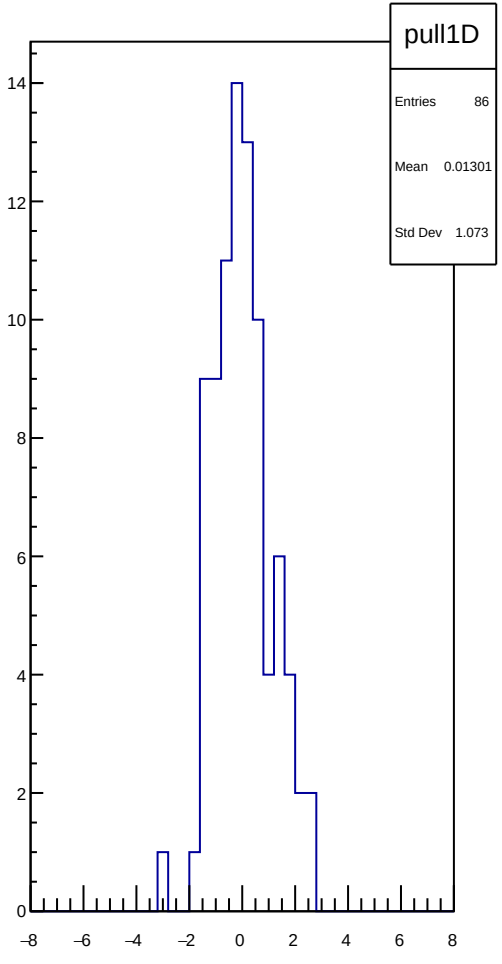

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3595 / 85
p0 861.6 ± 0.6779
980
960
940
920
900
880
860
840
820
800
780
760

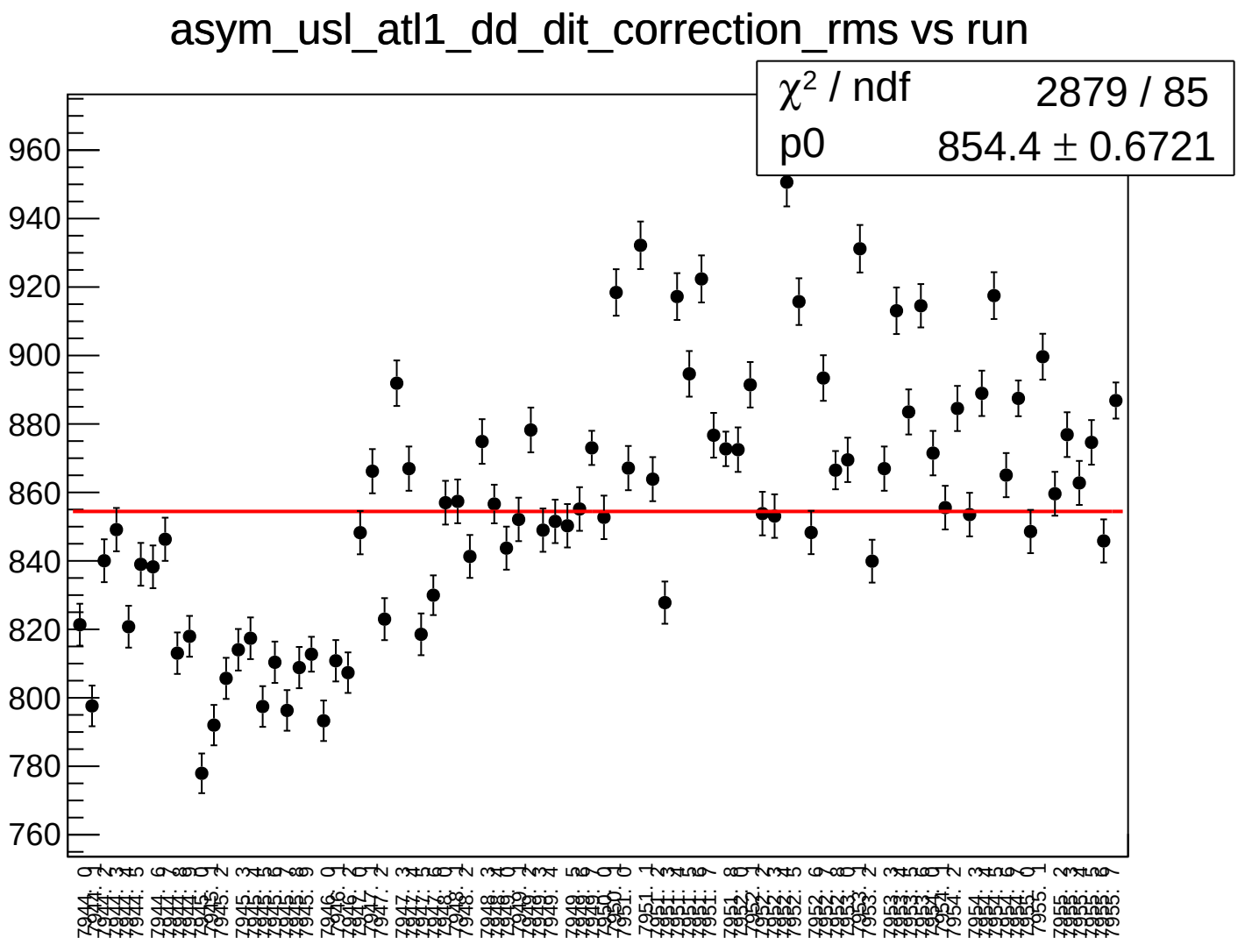

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 73.98 / 85
p0 −146.6 ± 1248
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 114.2
Std Dev 0
3
2
1
0
−1
−2

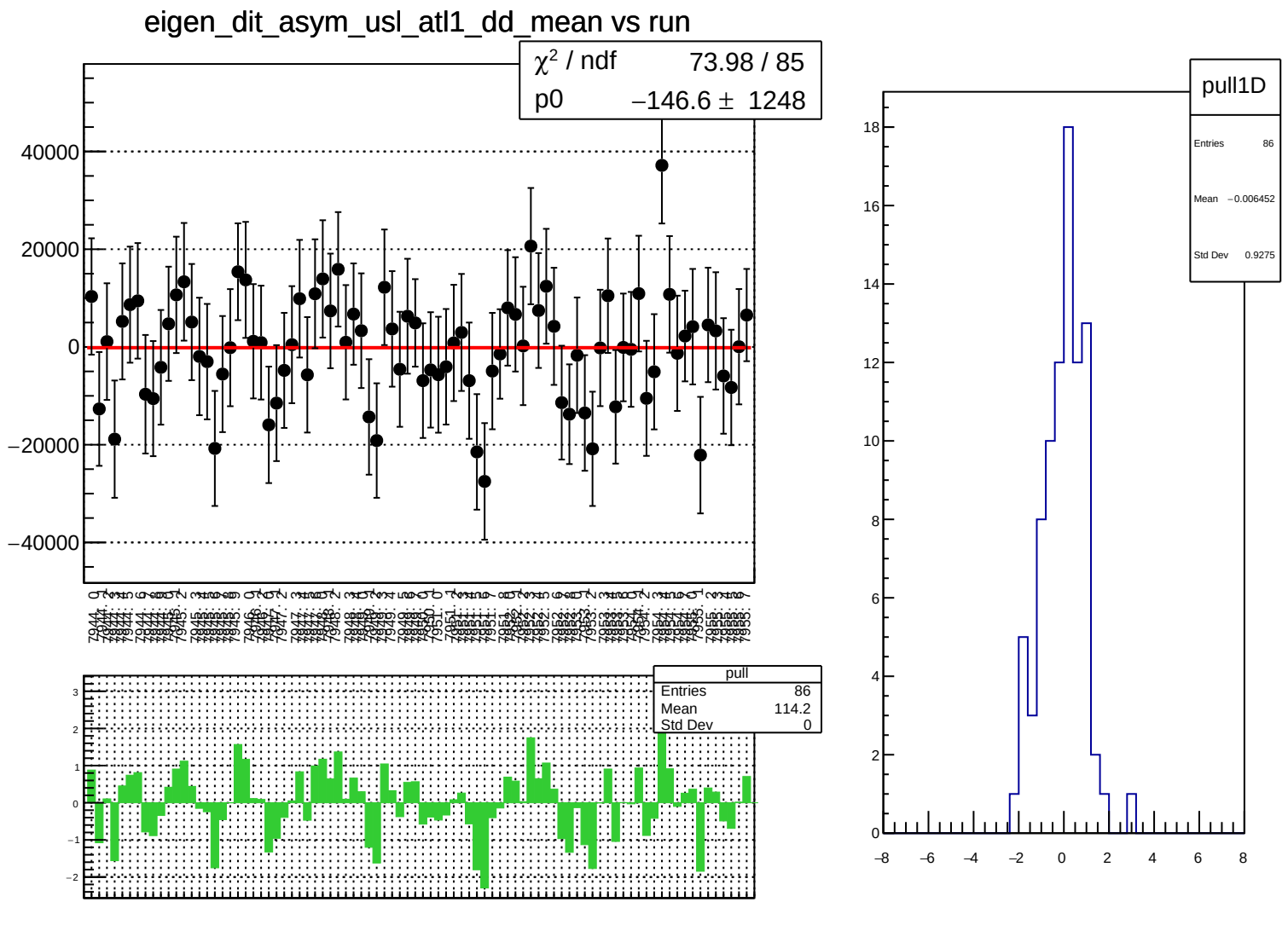

pull1D
Entries 86
Mean −0.006452
Std Dev 0.9275
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

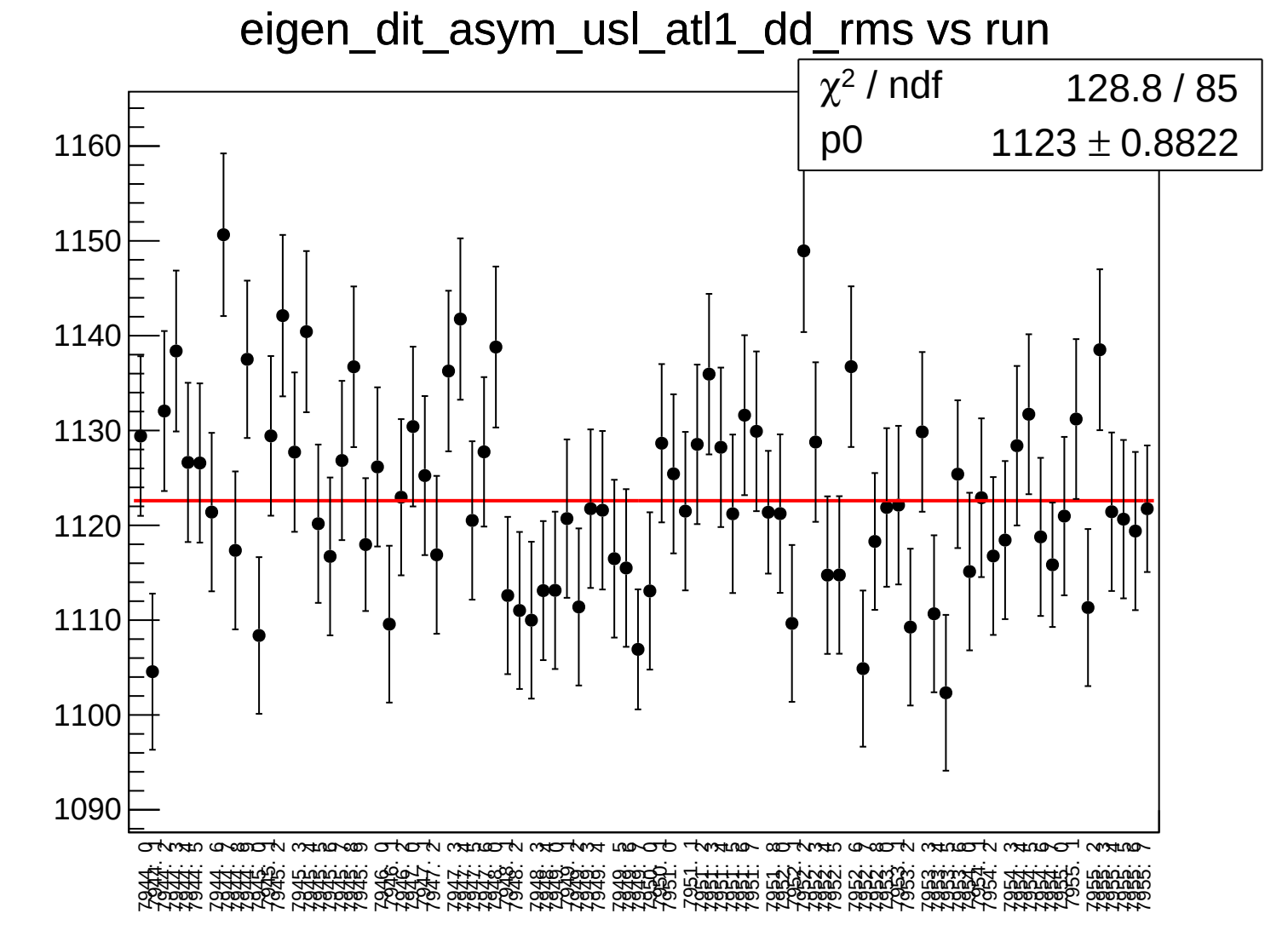

dit_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 128.8 / 85
p0 1123 ± 0.8822
1160
1150
1140
1130
1120
1110
1100
1090

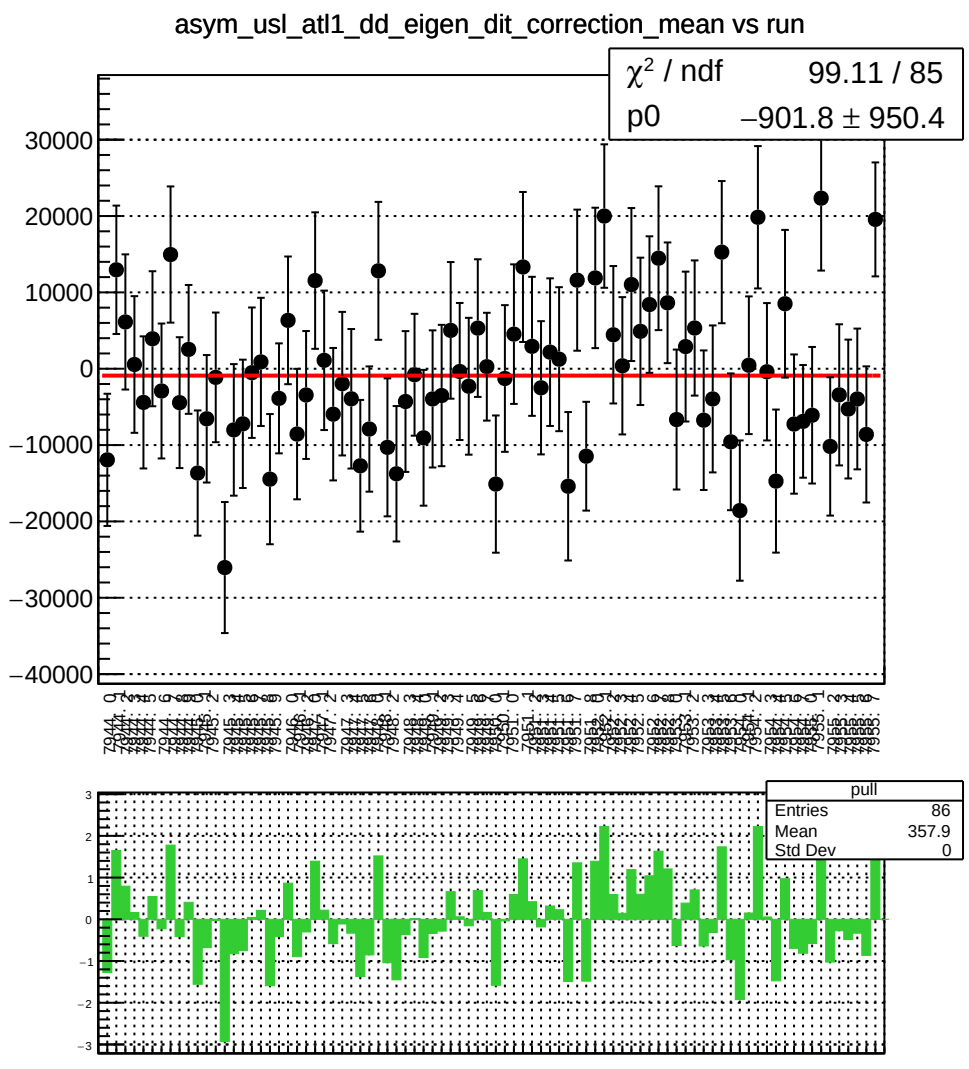

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 99.11 / 85
p0 −901.8 ± 950.4
pull
Entries 86
Mean 357.9
Std Dev 0

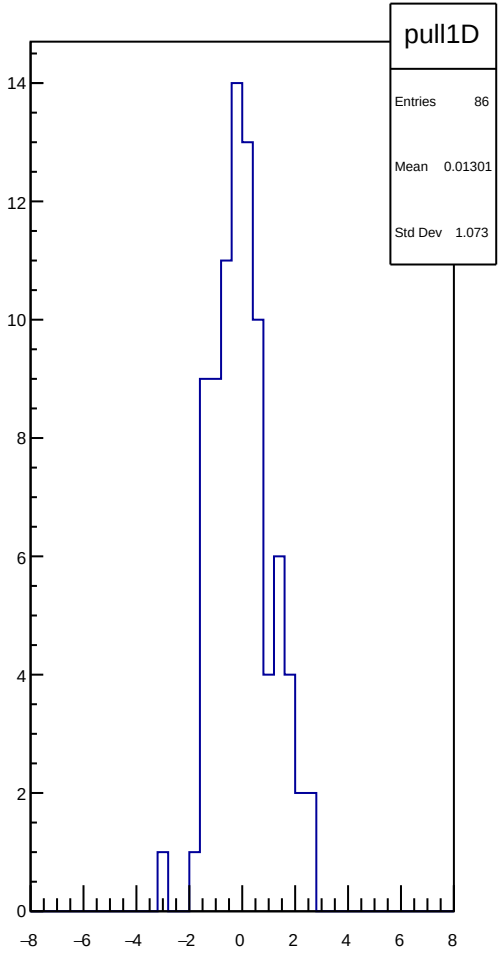

pull1D
Entries 86
Mean 0.01301
Std Dev 1.073

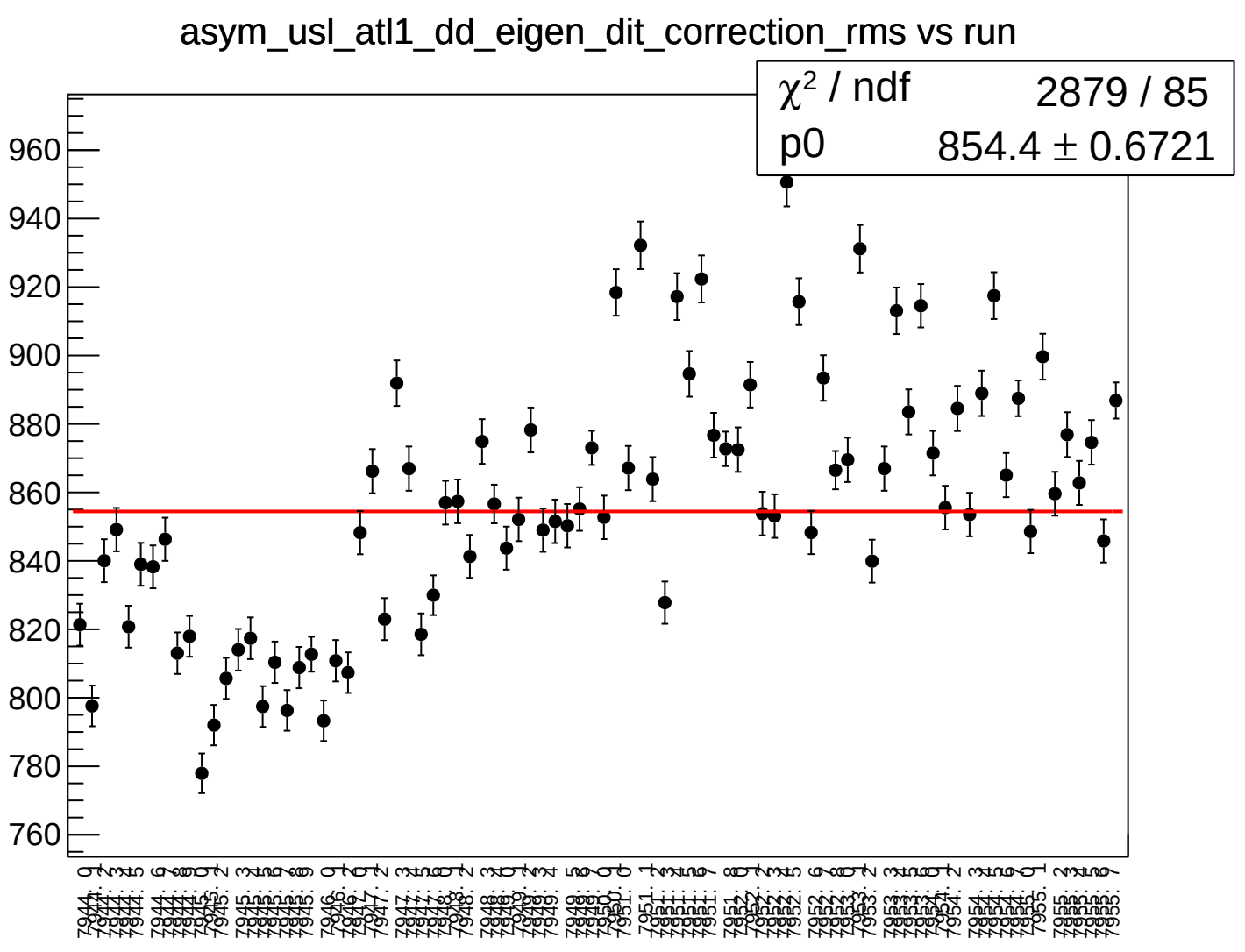

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 2879 / 85
p0 854.4 ± 0.6721
960
940
920
900
880
860
840
820
800
780
760

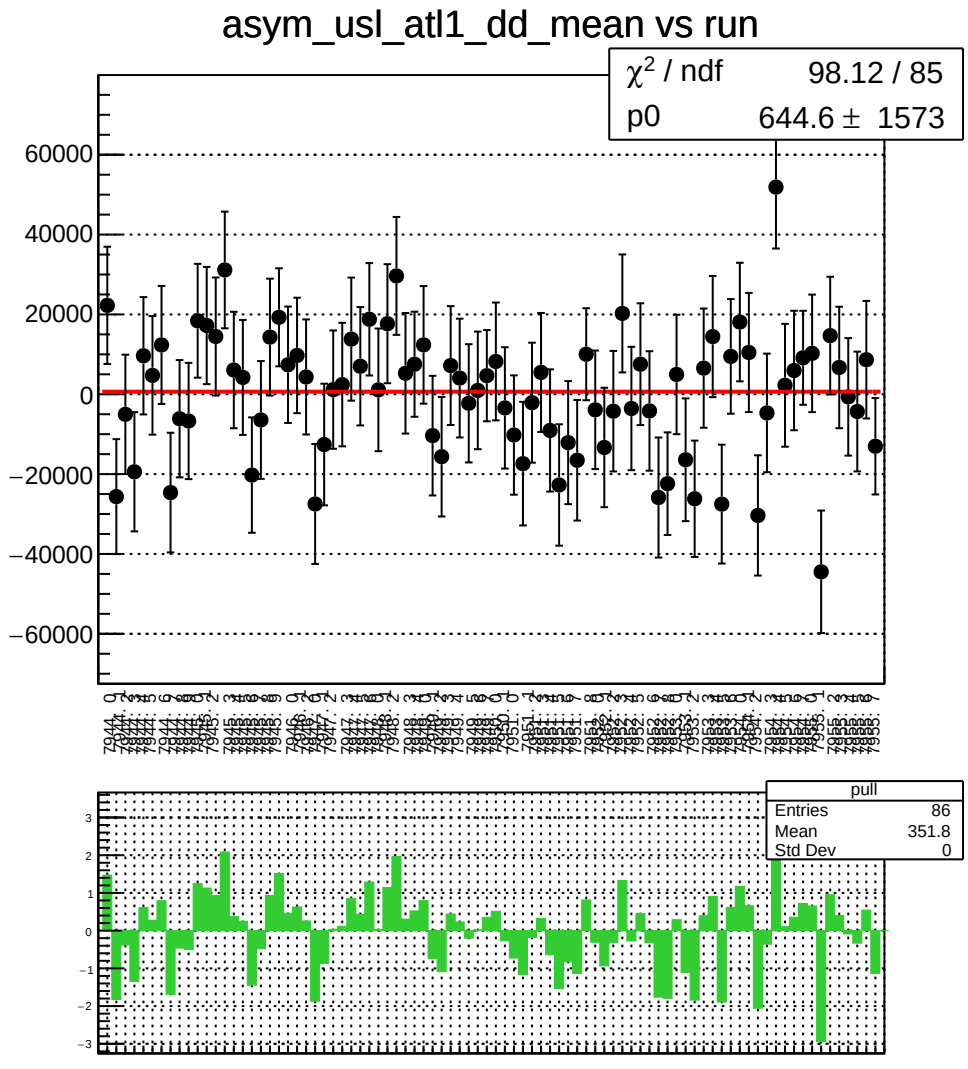

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 73.98 / 85
p0 −146.6 ± 1248
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 114.2
Std Dev 0
pull1D
Entries 86
Mean −0.006452
Std Dev 0.9275

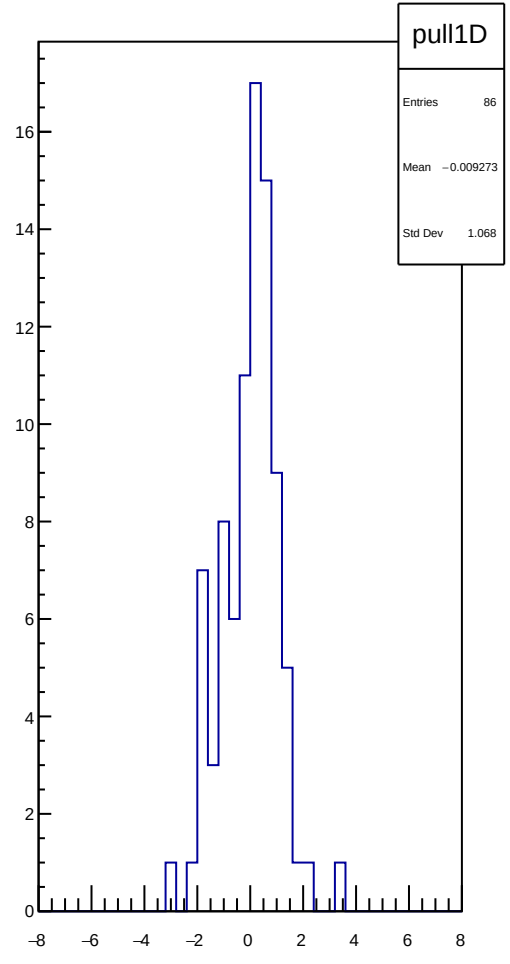

eigen_dit_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 128.8 / 85
p0 1123 ± 0.8822
1160
1150
1140
1130
1120
1110
1100
1090

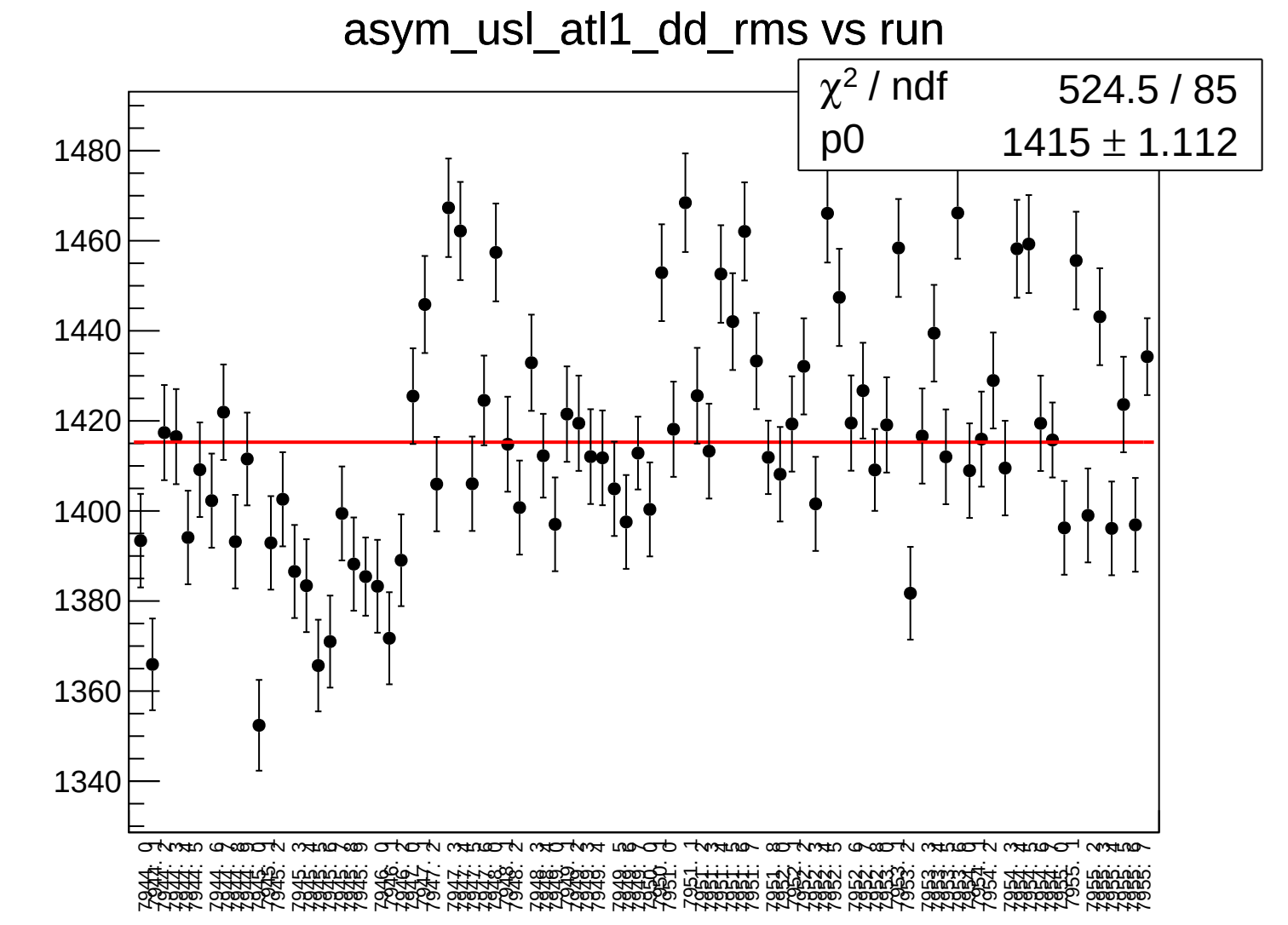

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.11 / 85
p0 −901.8 ± 950.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 357.9
Std Dev 0
3
2
1
0
−1
−2
−3

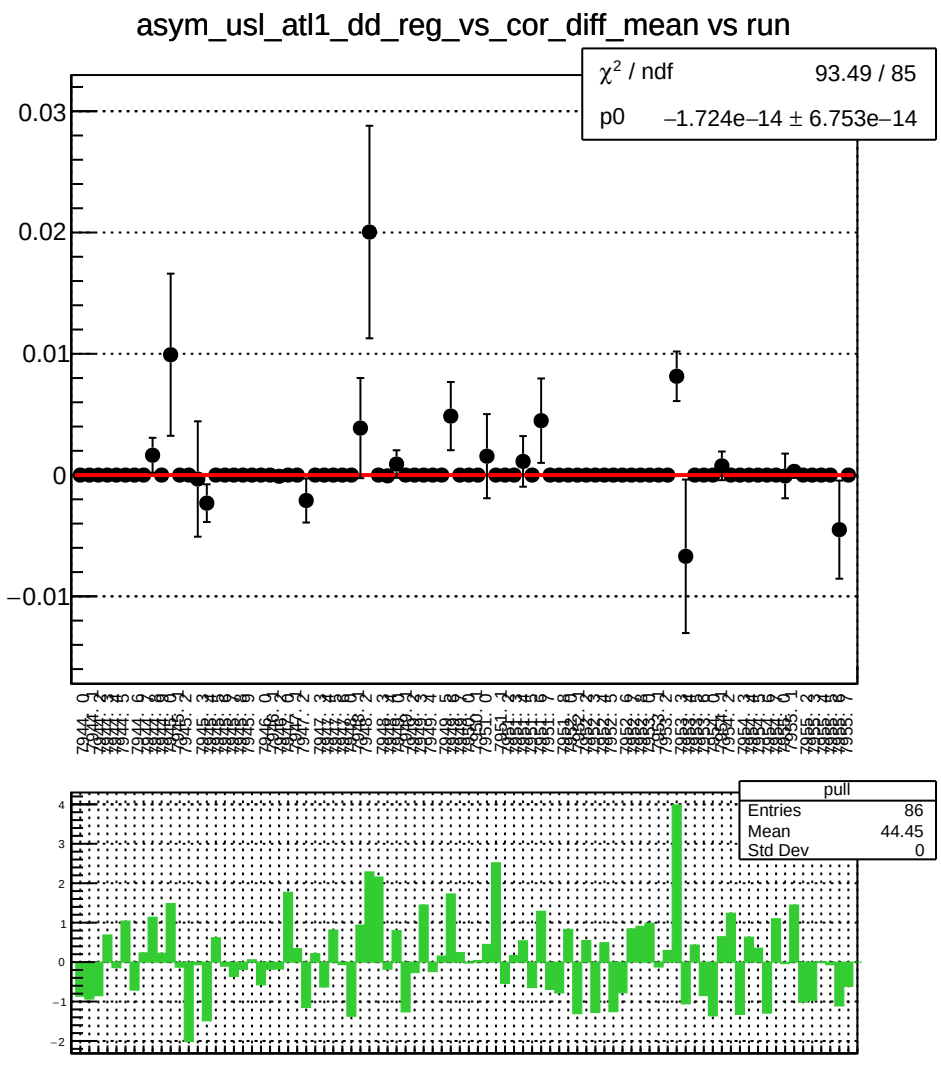

pull1D
Entries 86
Mean 0.01301
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

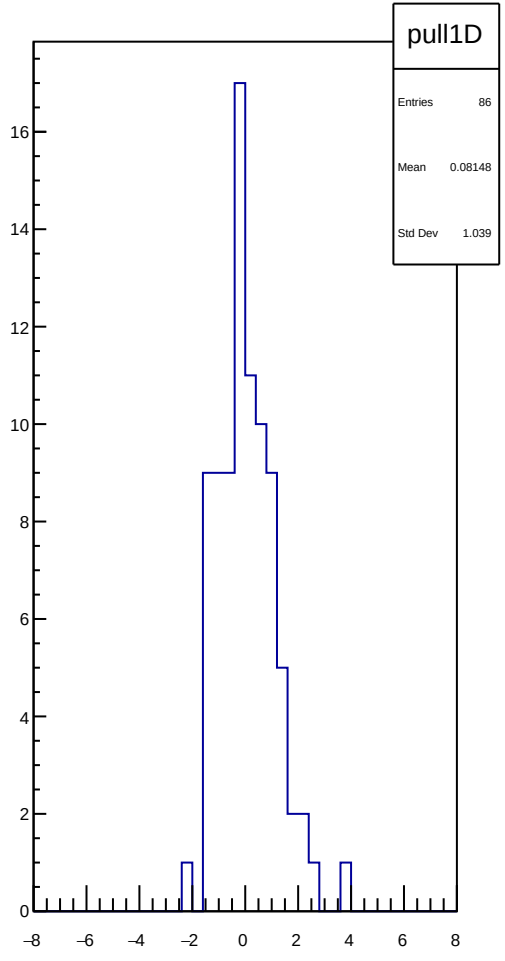

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2879 / 85
p0 854.4 ± 0.6721
960
940
920
900
880
860
840
820
800
780
760

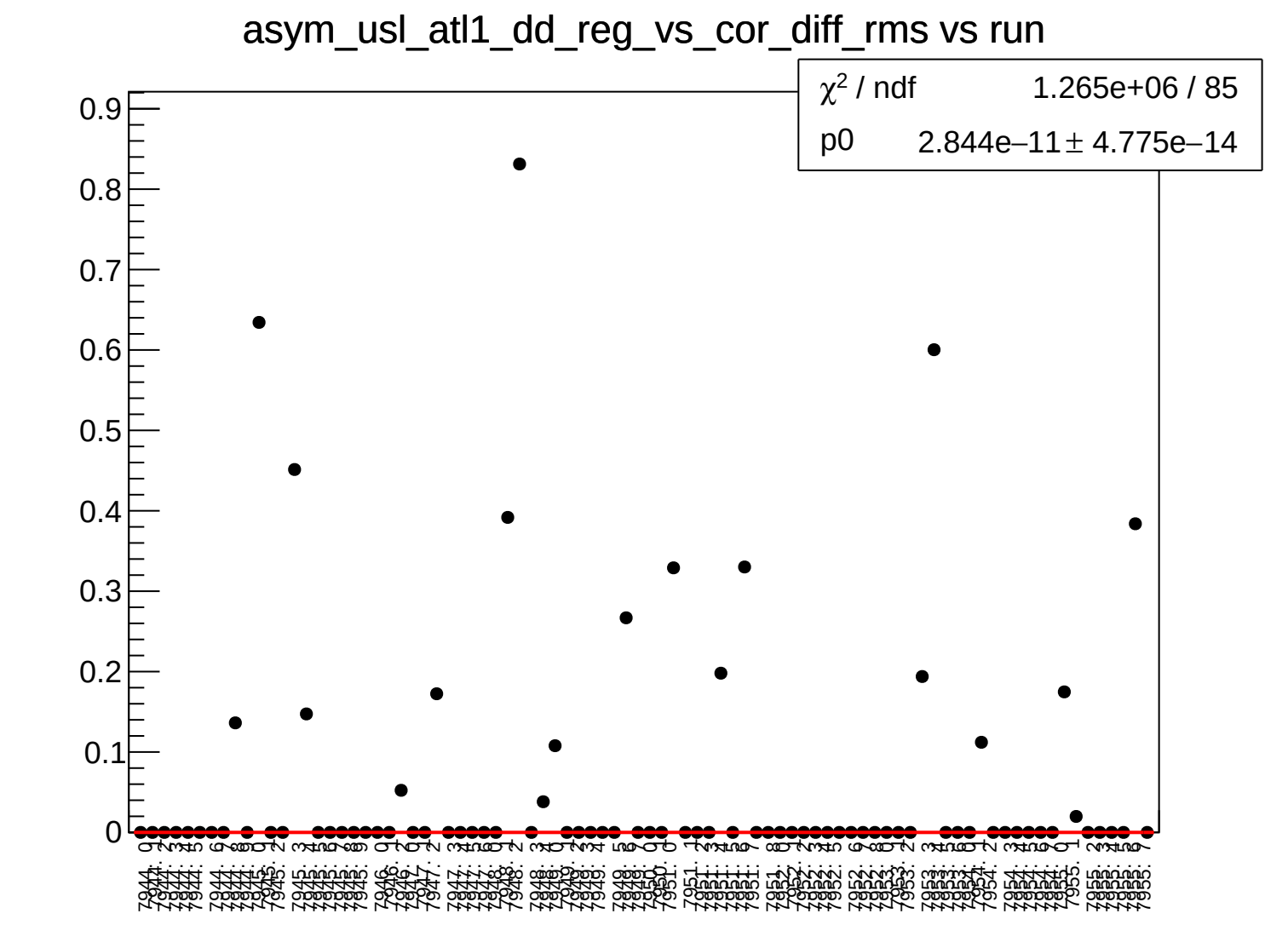

asym_usl_atl1_dd_mean vs run
χ² / ndf 98.12 / 85
p0 644.6 ± 1573
pull
Entries 86
Mean 351.8
Std Dev 0

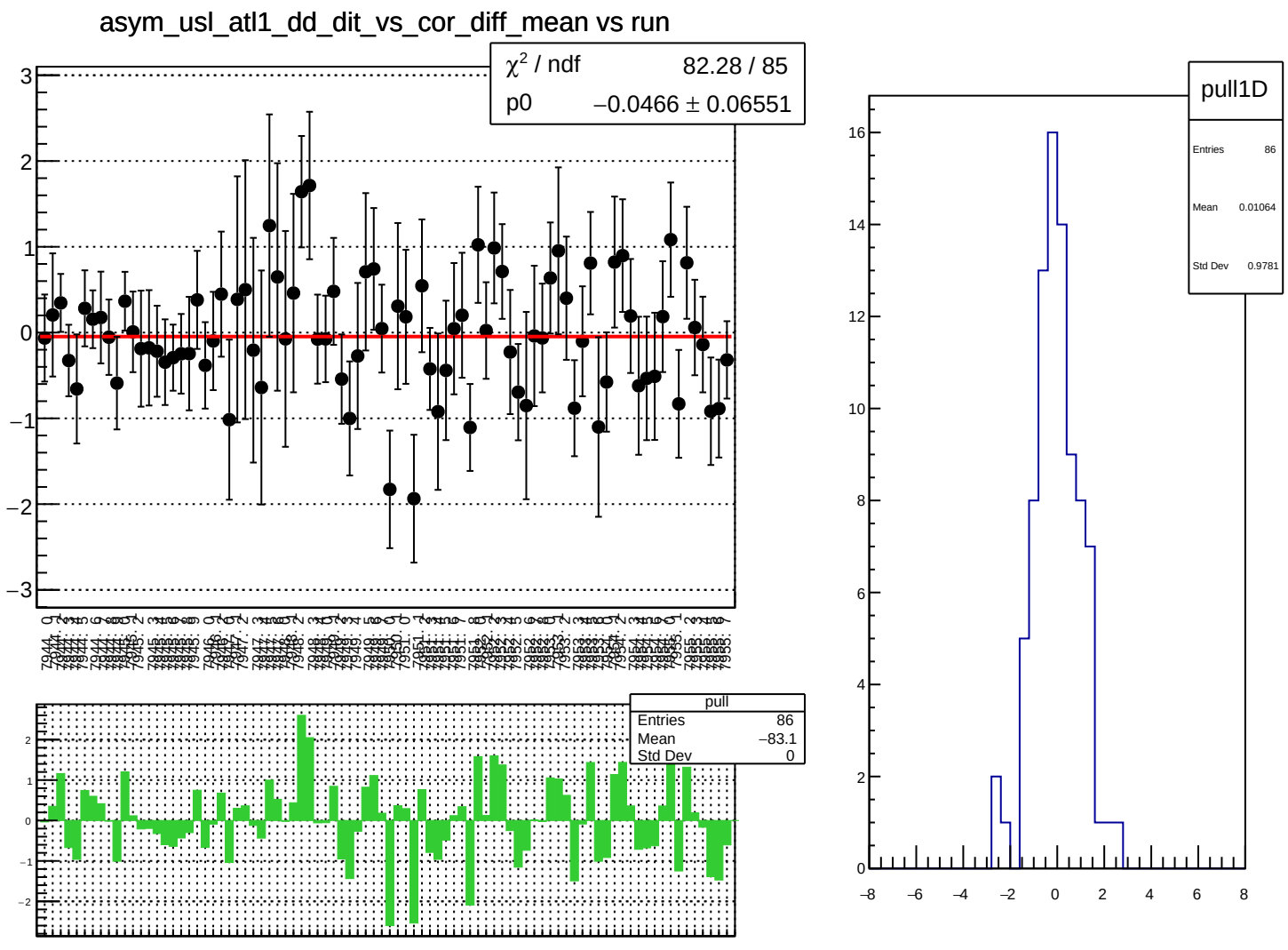

pull1D
Entries 86
Mean −0.009273
Std Dev 1.068

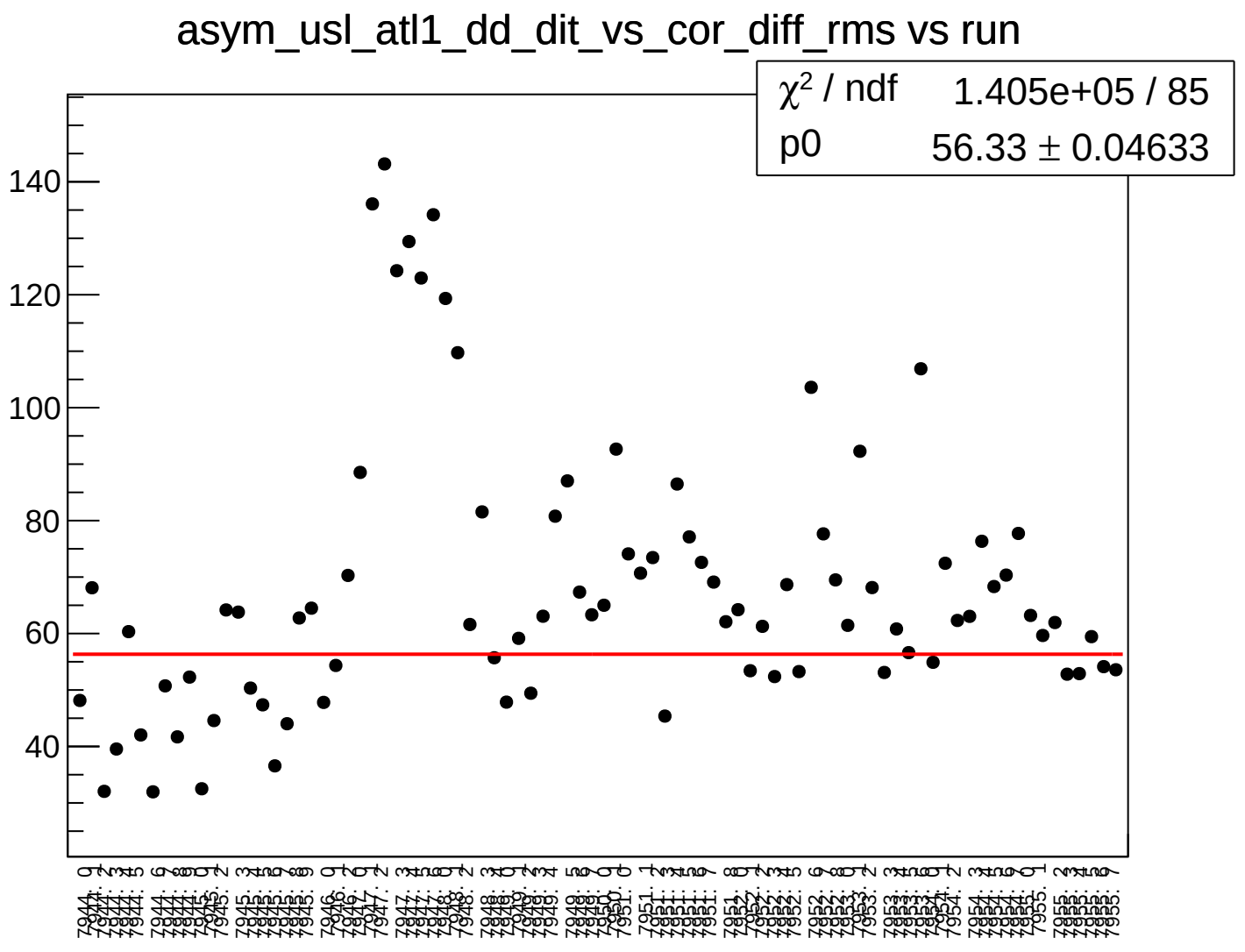

asym_usl_atl1_dd_rms vs run
χ² / ndf 524.5 / 85
p0 1415 ± 1.112
1480
1460
1440
1420
1400
1380
1360
1340

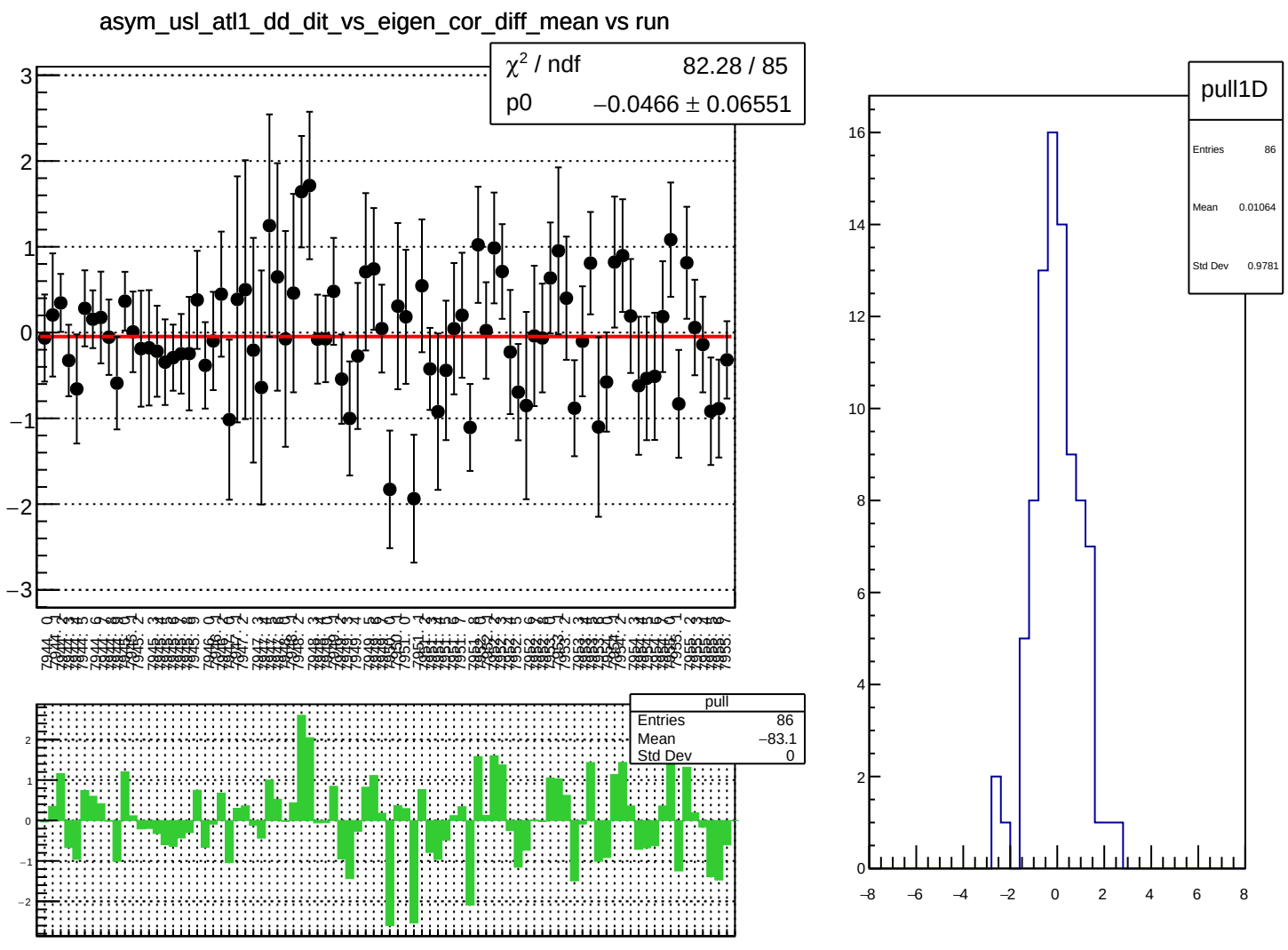

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.49 / 85
p0 −1.724e−14 ± 6.753e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 86
Mean 44.45
Std Dev 0
4
3
2
1
0
−1
−2

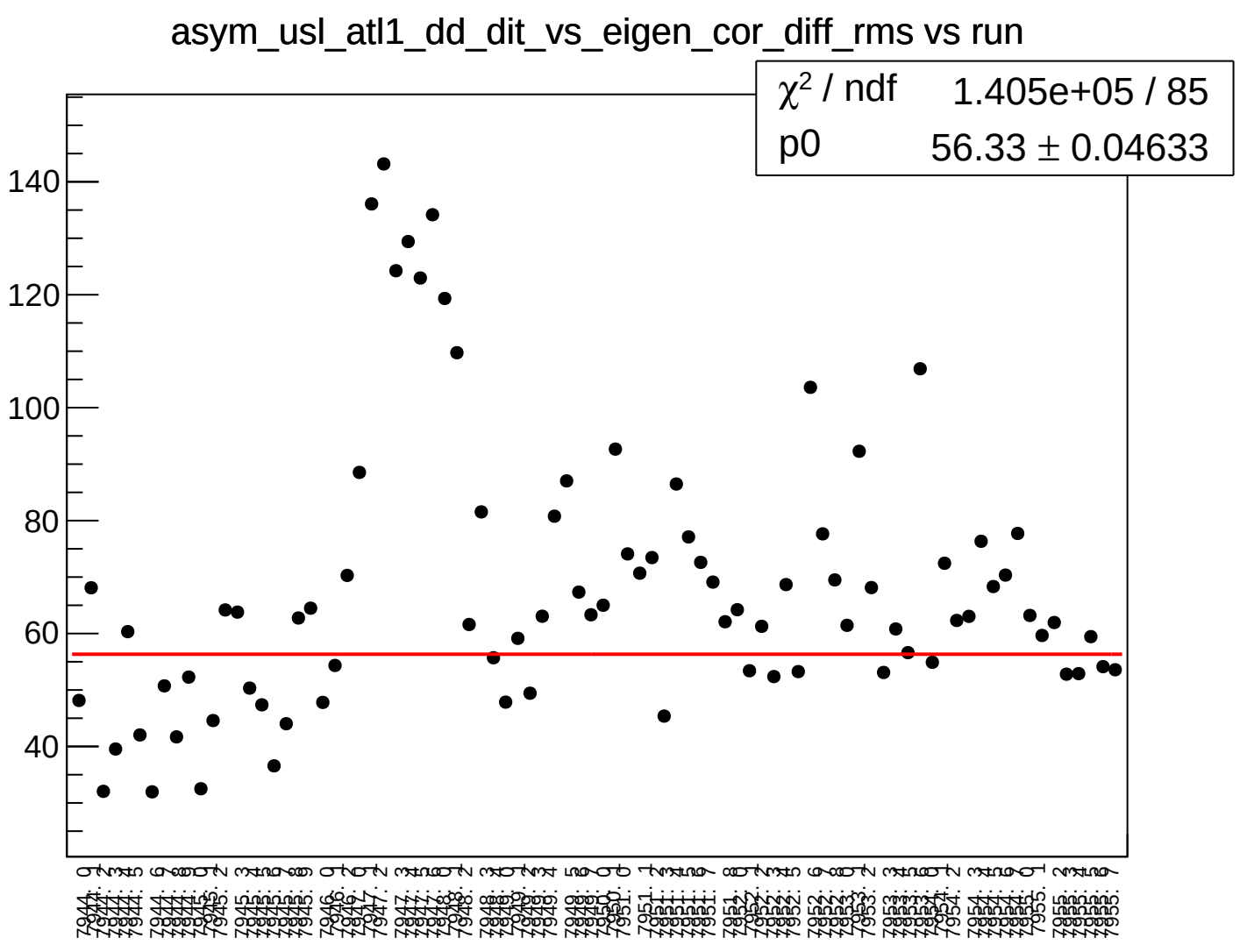

pull1D
Entries 86
Mean 0.08148
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

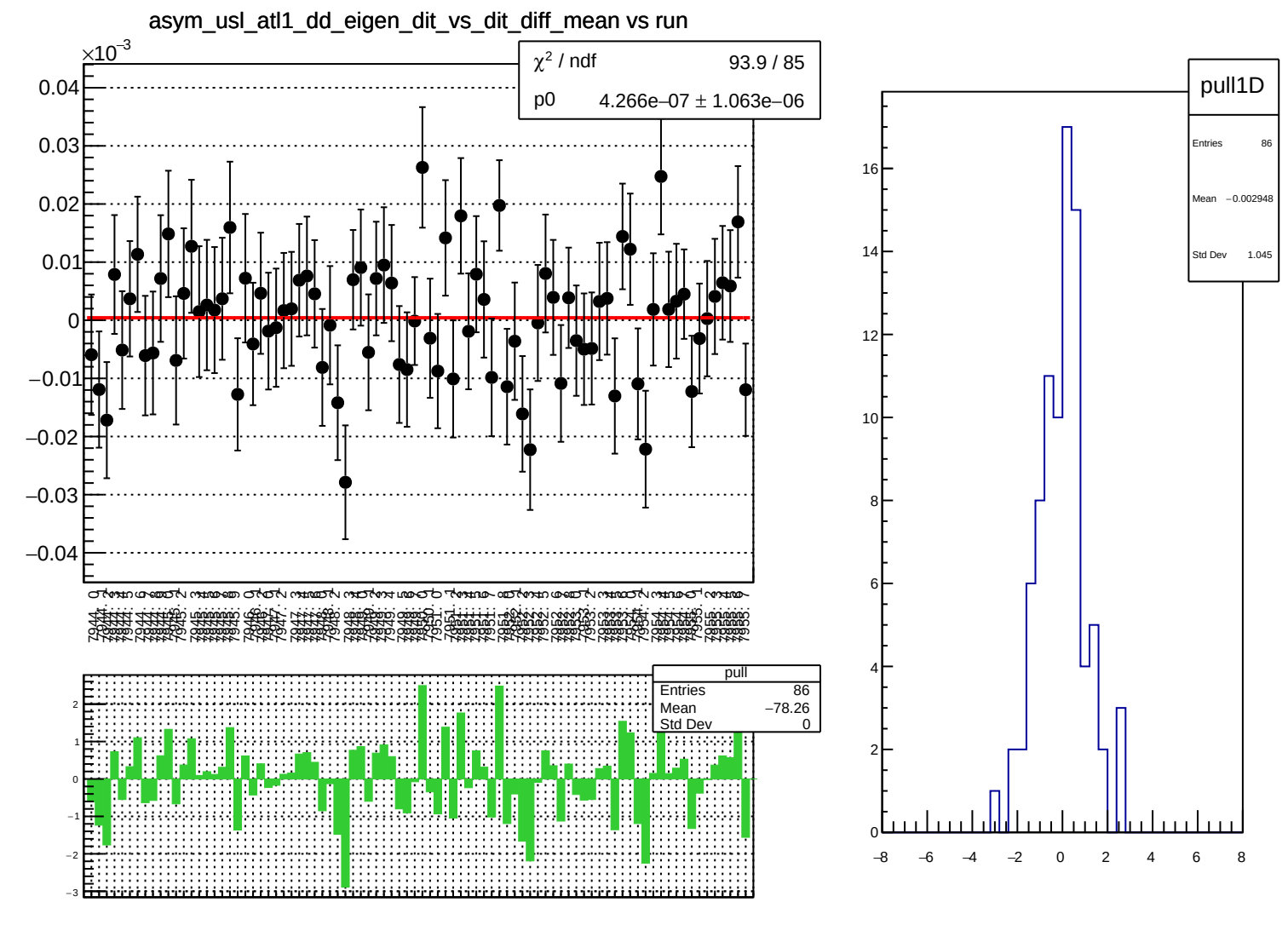

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.265e+06 / 85
p0 2.844e−11 ± 4.775e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

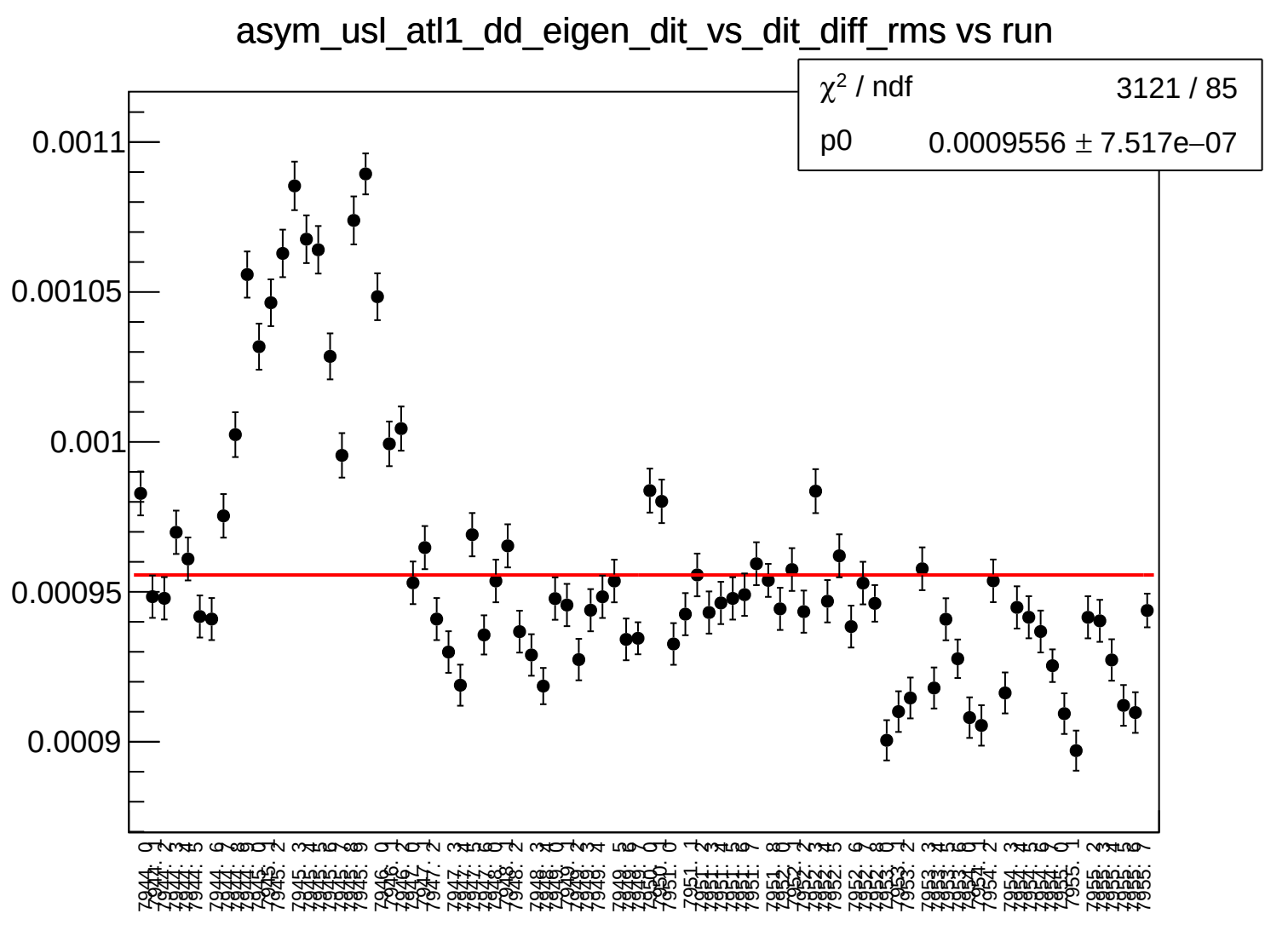

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.28 / 85
p0 −0.0466 ± 0.06551
pull
Entries 86
Mean −83.1
Std Dev 0
pull1D
Entries 86
Mean 0.01064
Std Dev 0.9781

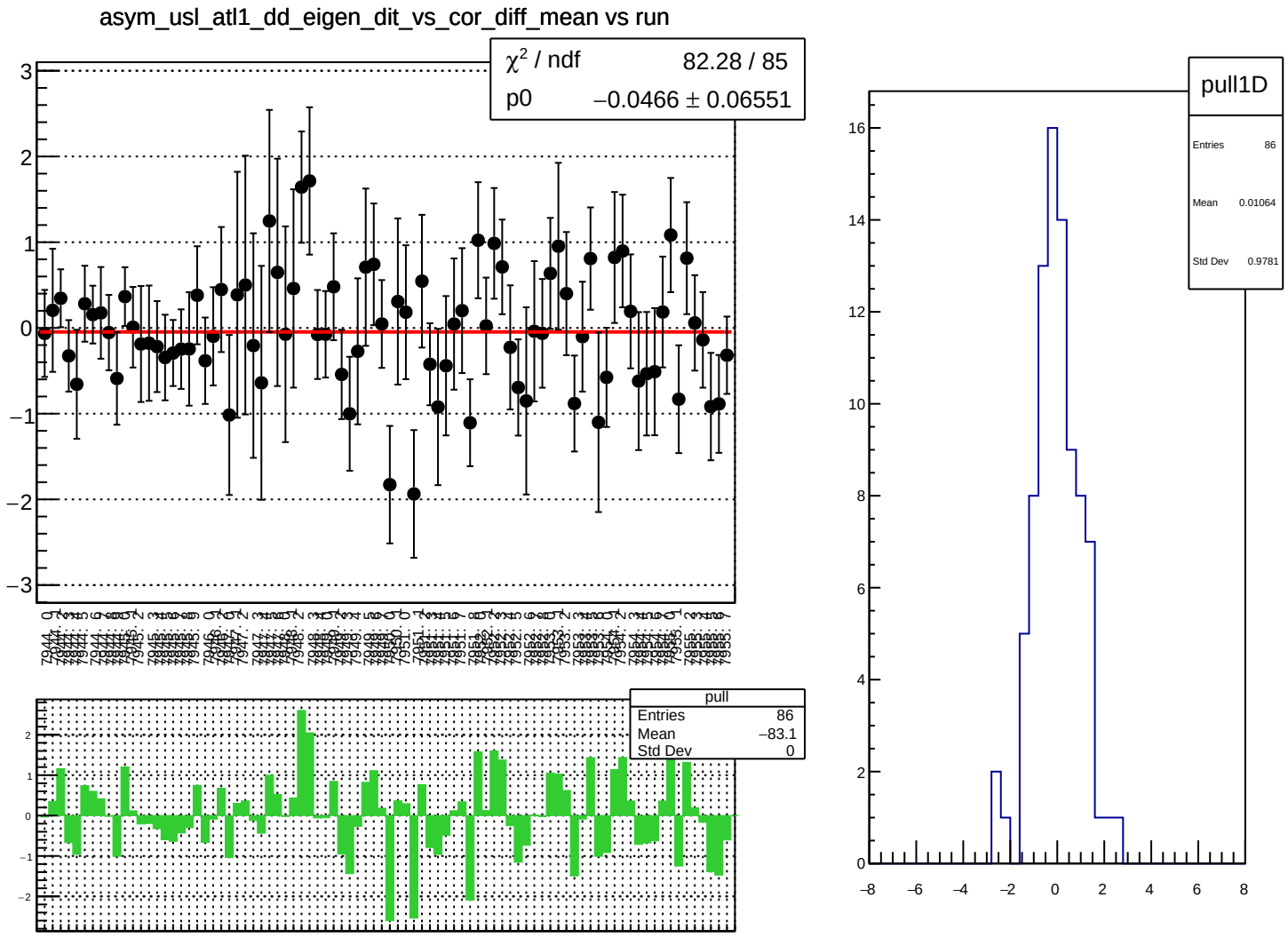

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.405e+05 / 85
p0 56.33 ± 0.04633
140
120
100
80
60
40

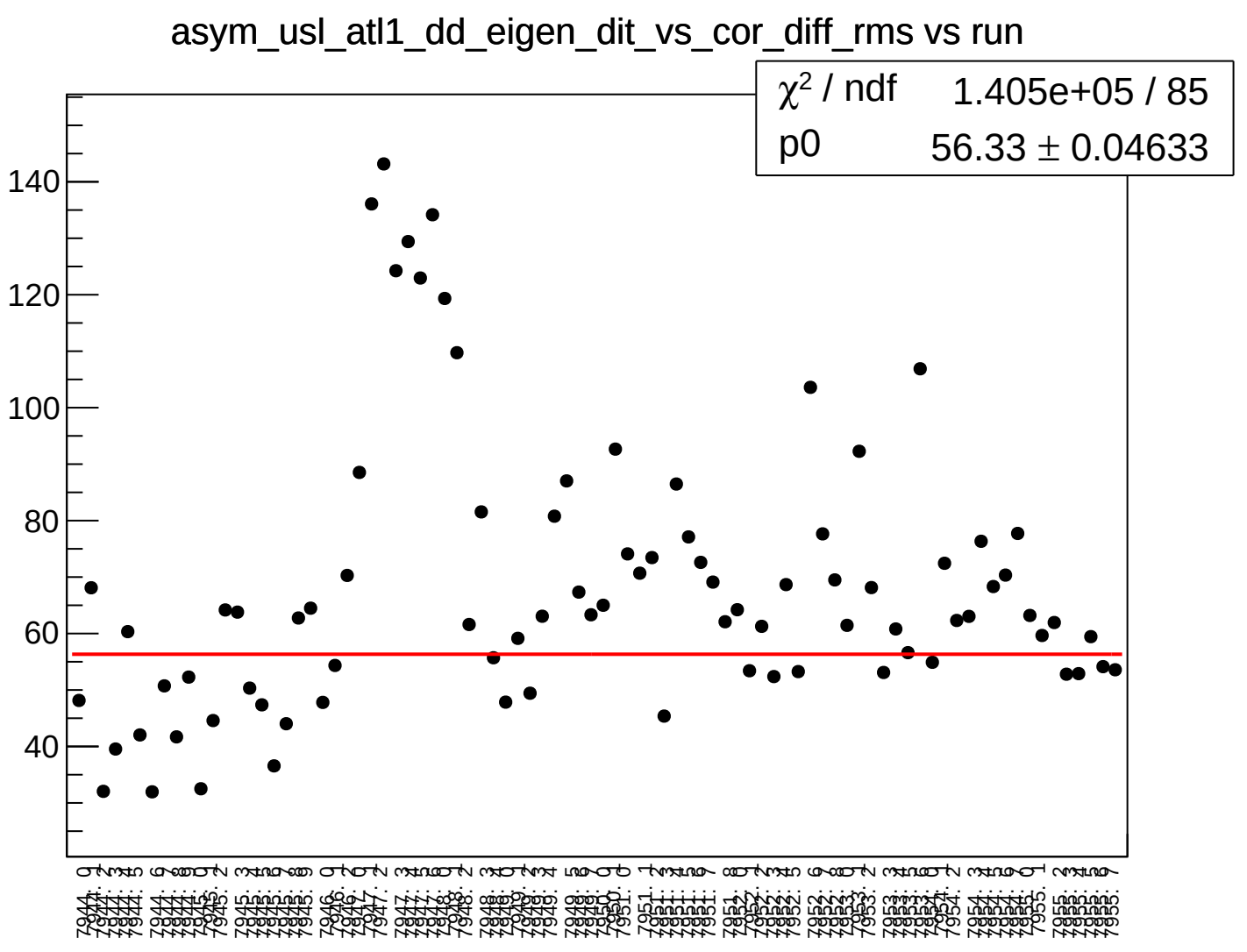

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.28 / 85
p0 −0.0466 ± 0.06551
pull
Entries 86
Mean −83.1
Std Dev 0
pull1D
Entries 86
Mean 0.01064
Std Dev 0.9781

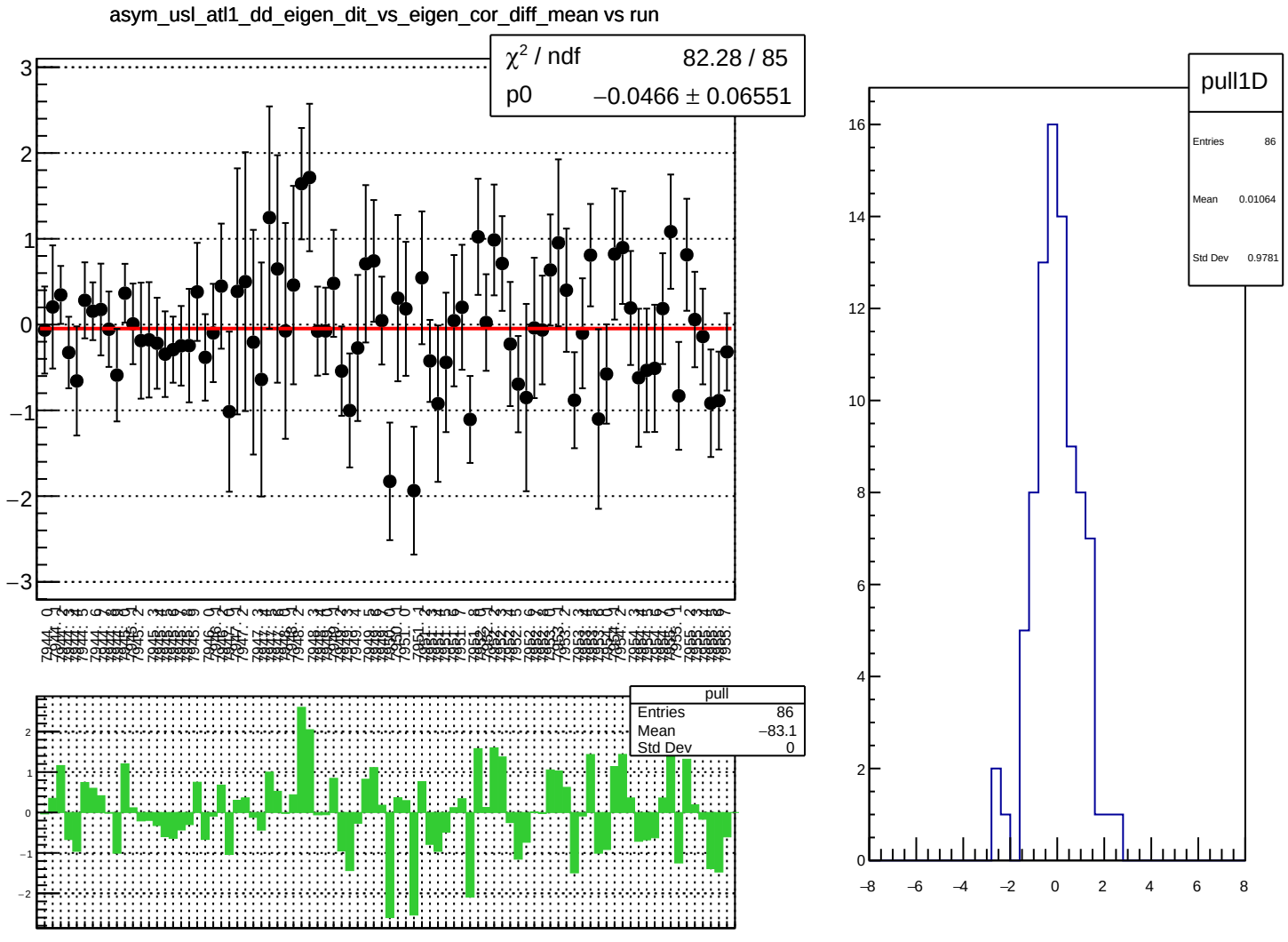

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.405e+05 / 85
p0 56.33 ± 0.04633
140
120
100
80
60
40

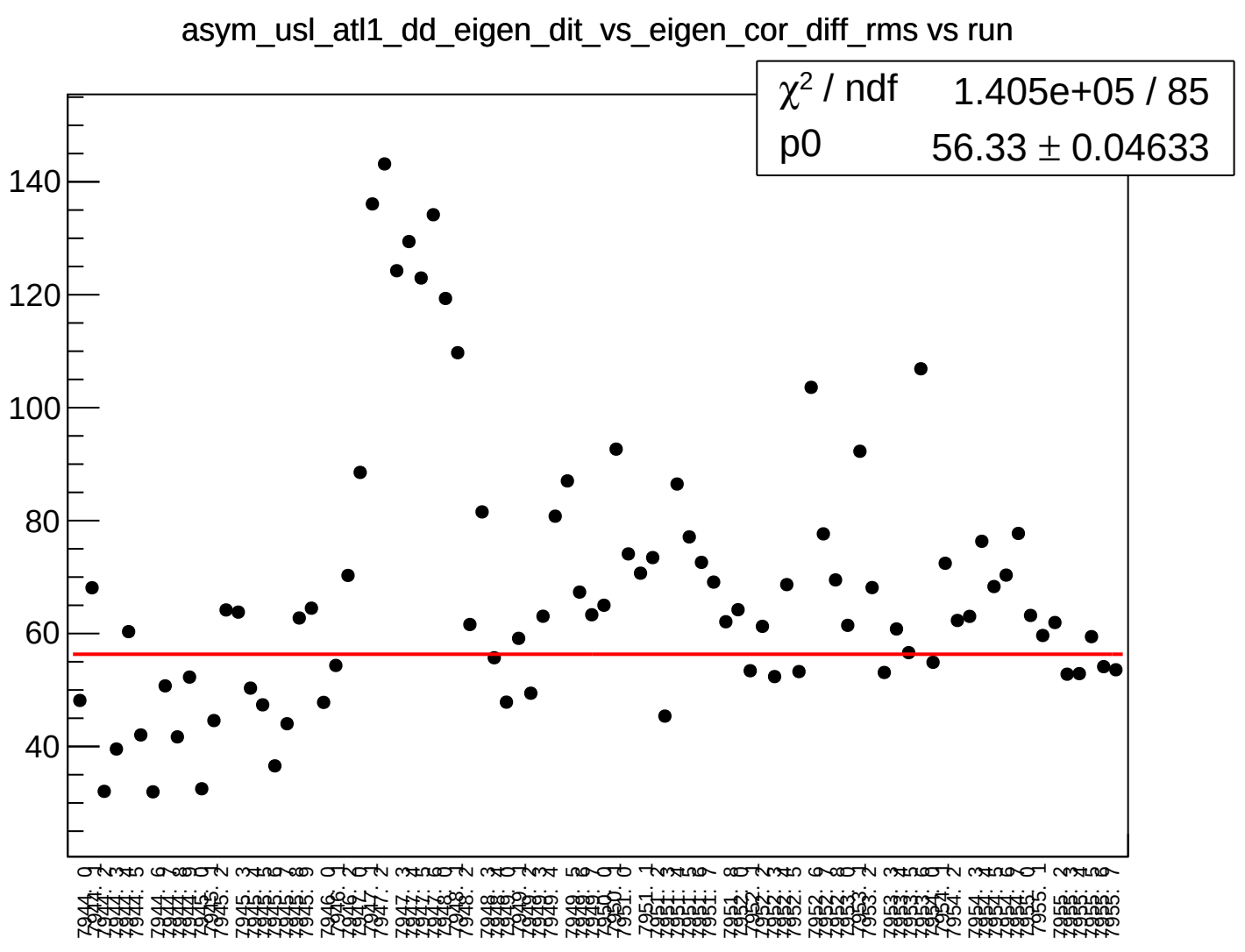

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.9 / 85
p0 4.266e−07 ± 1.063e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 86
Mean −78.26
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.002948
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

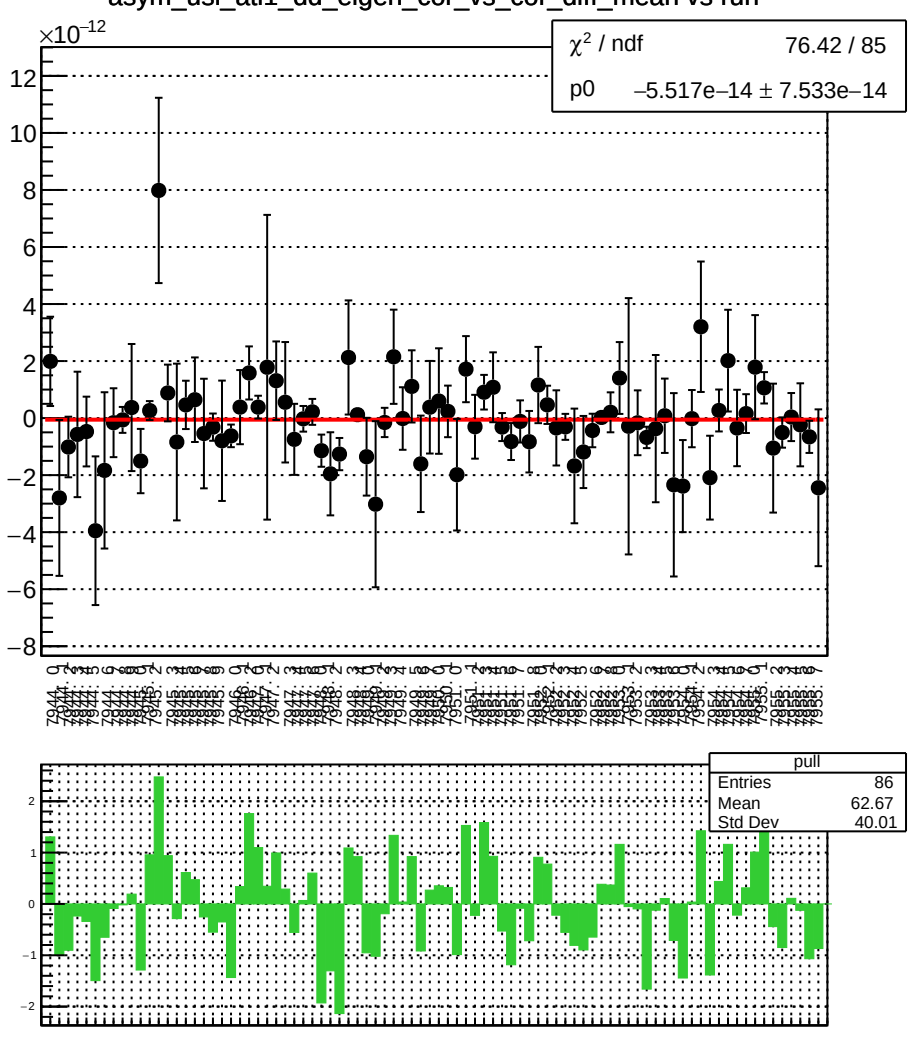

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3121 / 85
p0 0.0009556 ± 7.517e−07
0.0011
0.00105
0.001
0.00095
0.0009

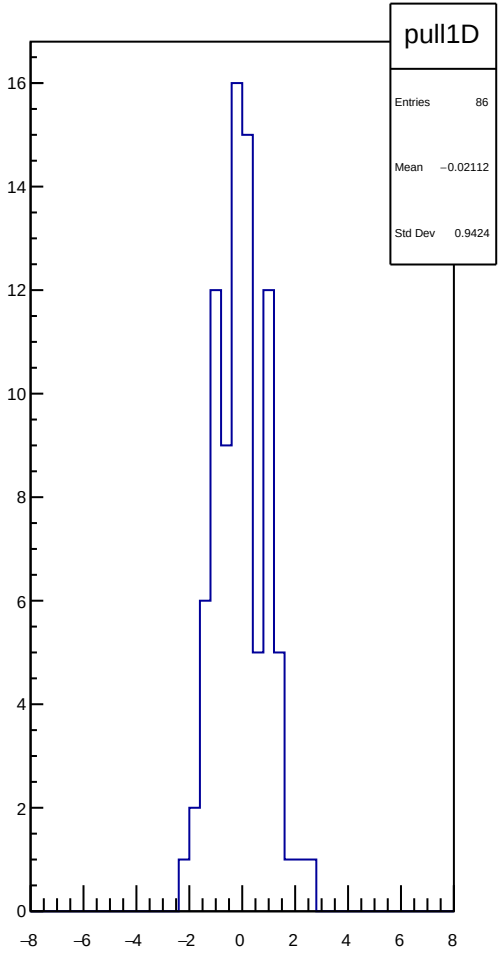

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.28 / 85
p0 −0.0466 ± 0.06551
pull
Entries 86
Mean −83.1
Std Dev 0
pull1D
Entries 86
Mean 0.01064
Std Dev 0.9781

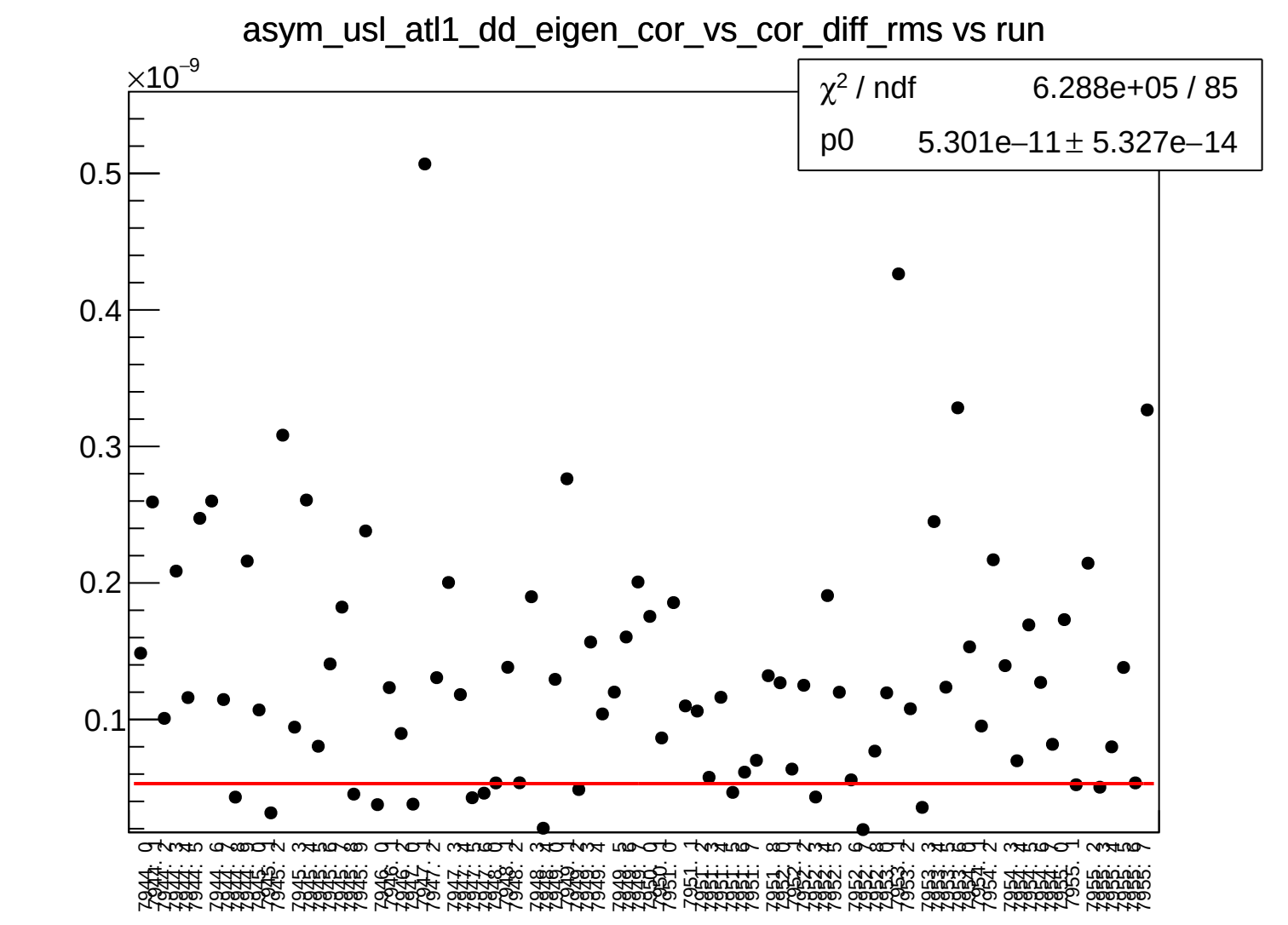

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.405e+05 / 85
p0 56.33 ± 0.04633
140
120
100
80
60
40

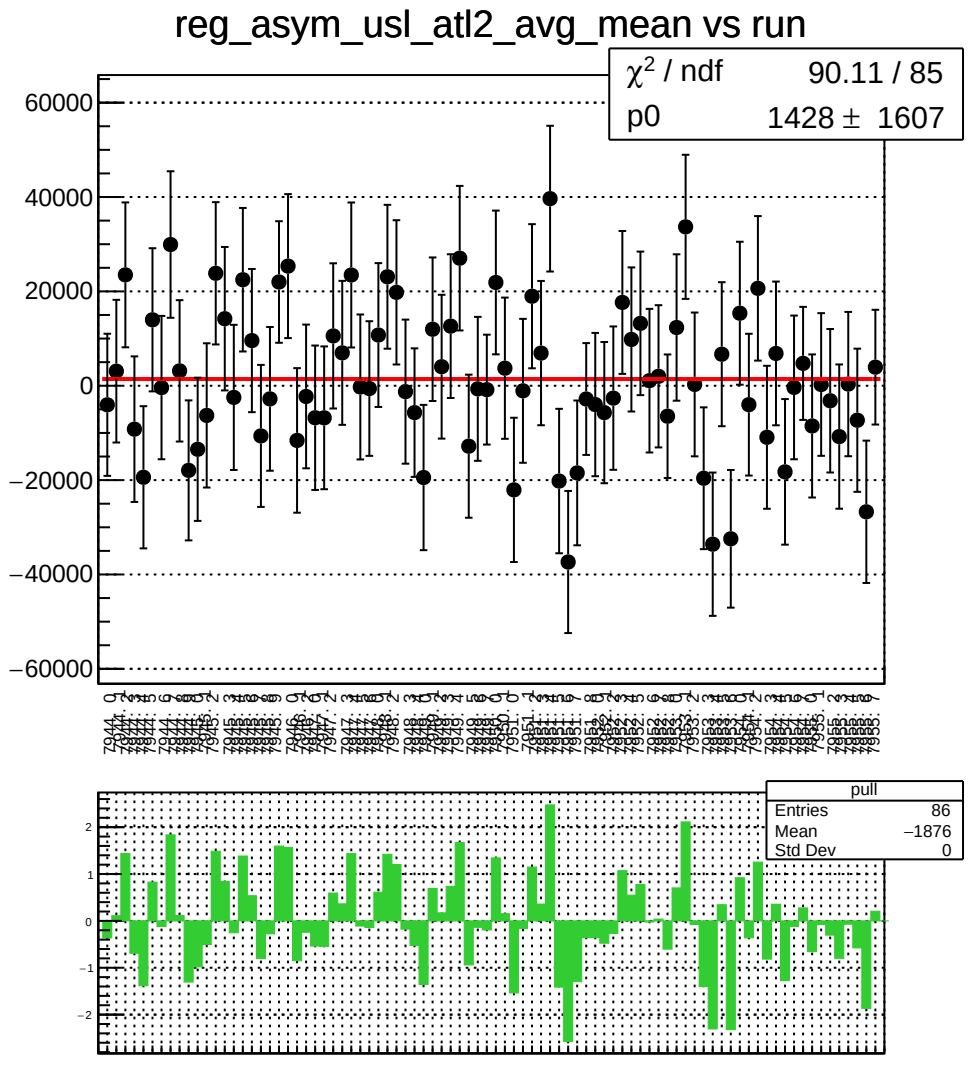

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.28 / 85
p0 −0.0466 ± 0.06551
pull
Entries 86
Mean −83.1
Std Dev 0
pull1D
Entries 86
Mean 0.01064
Std Dev 0.9781

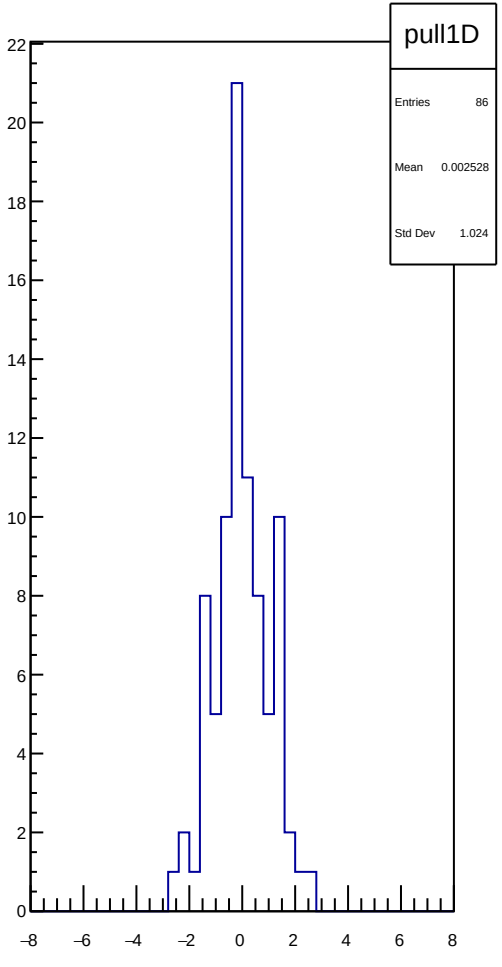

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.405e+05 / 85
p0 56.33 ± 0.04633
140
120
100
80
60
40

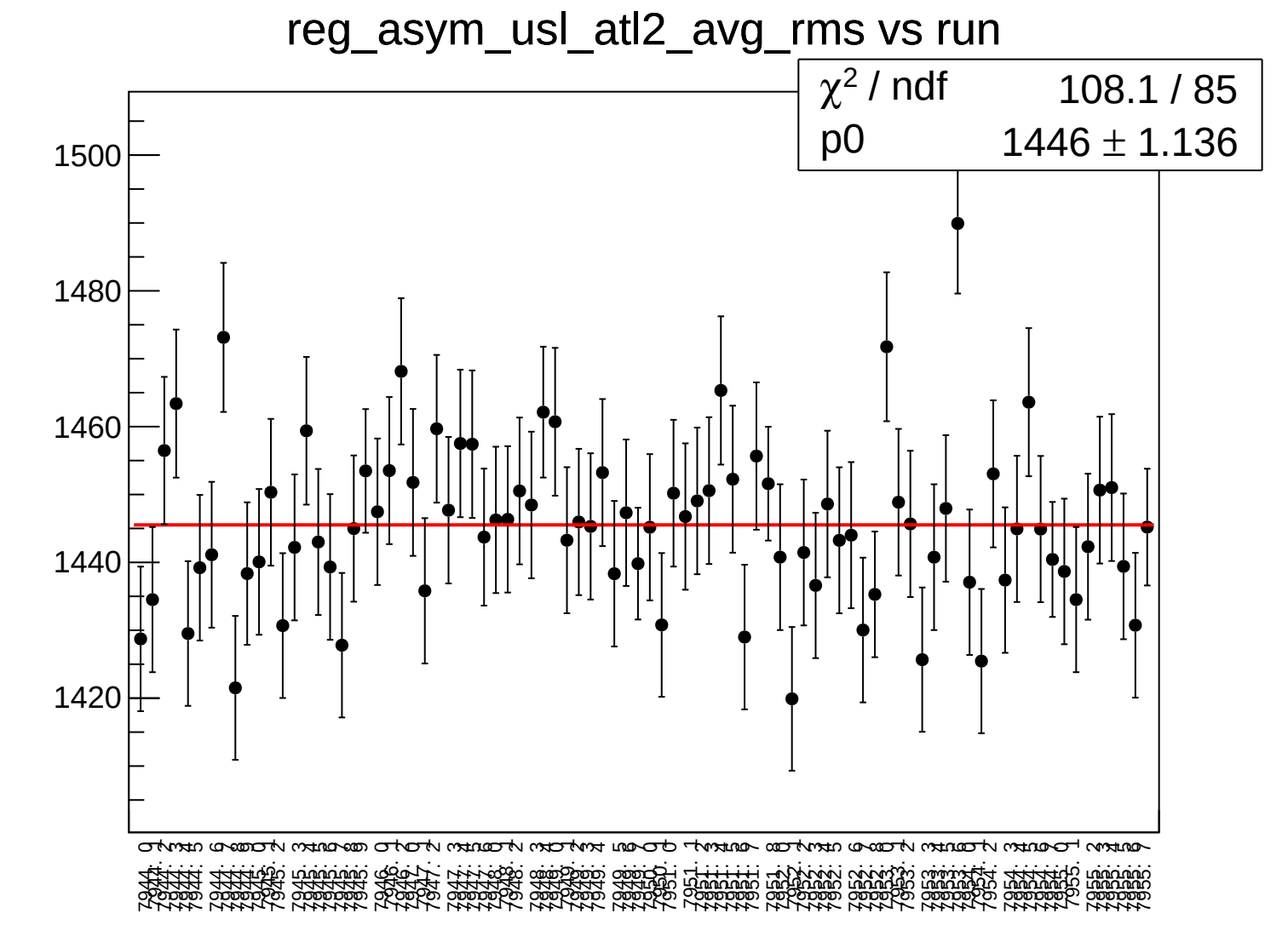

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.42 / 85
p0 −5.517e−14 ± 7.533e−14
pull
Entries 86
Mean 62.67
Std Dev 40.01

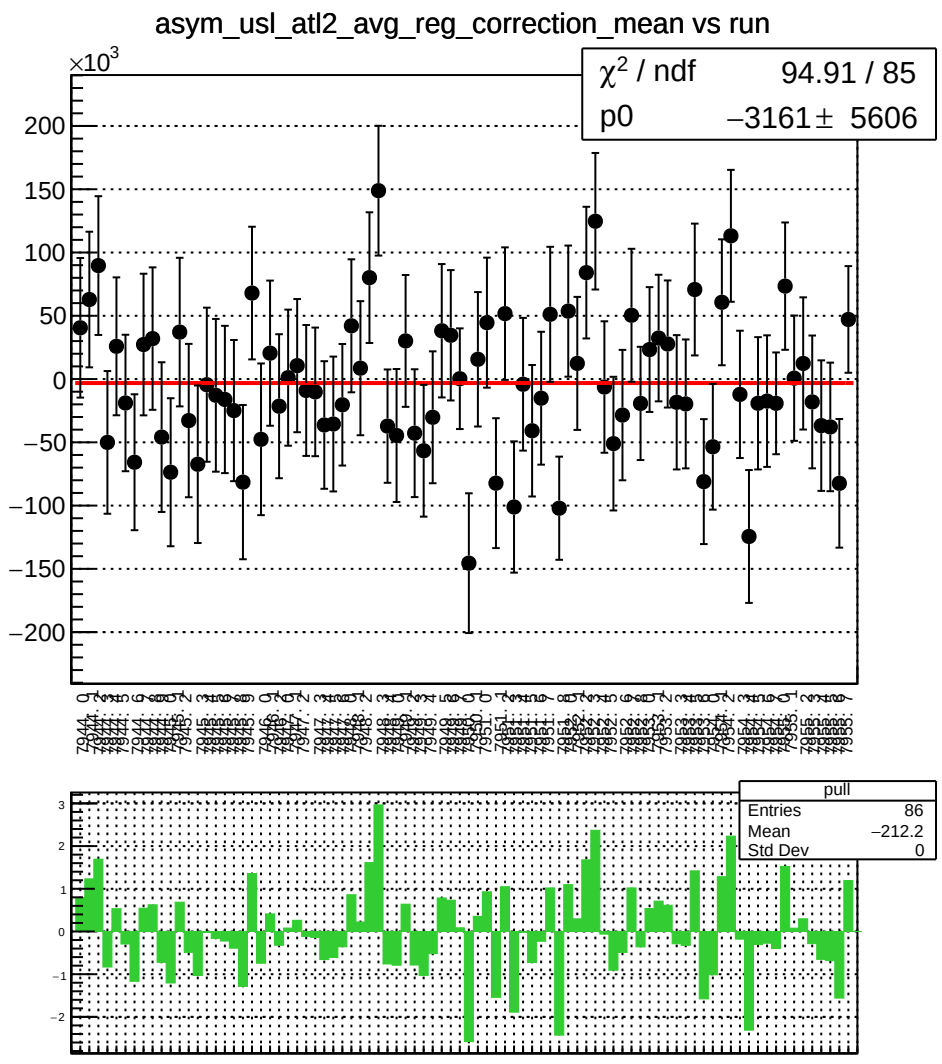

pull1D
Entries 86
Mean −0.02112
Std Dev 0.9424

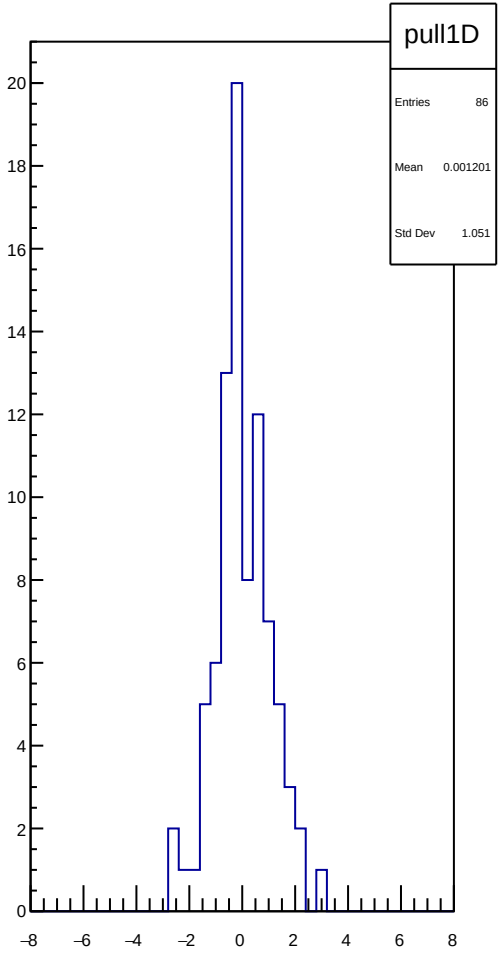

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.288e+05 / 85
p0 5.301e−11 ± 5.327e−14
0.5
0.4
0.3
0.2
0.1

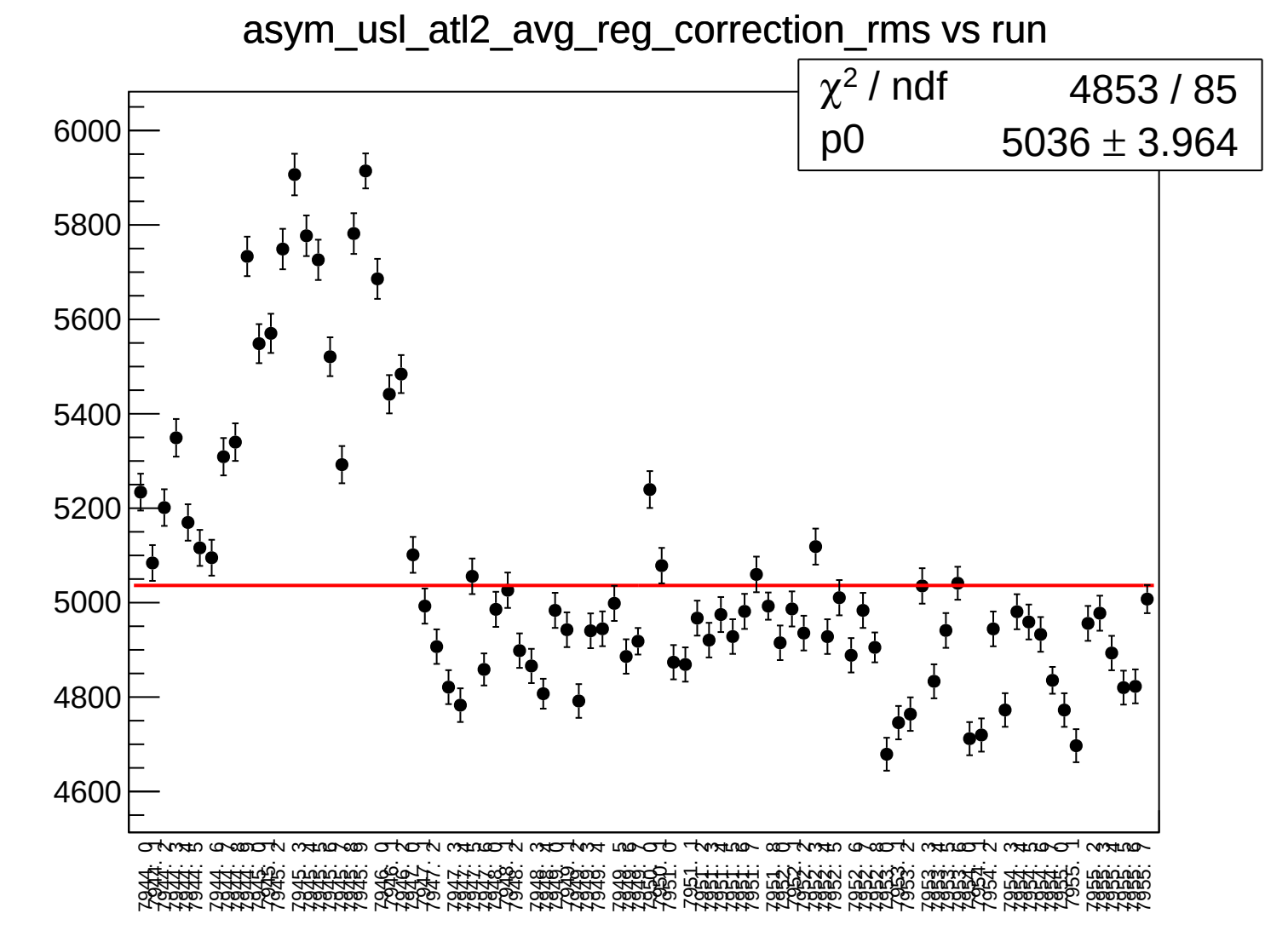

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.11 / 85
p0 1428 ± 1607
pull
Entries 86
Mean −1876
Std Dev 0

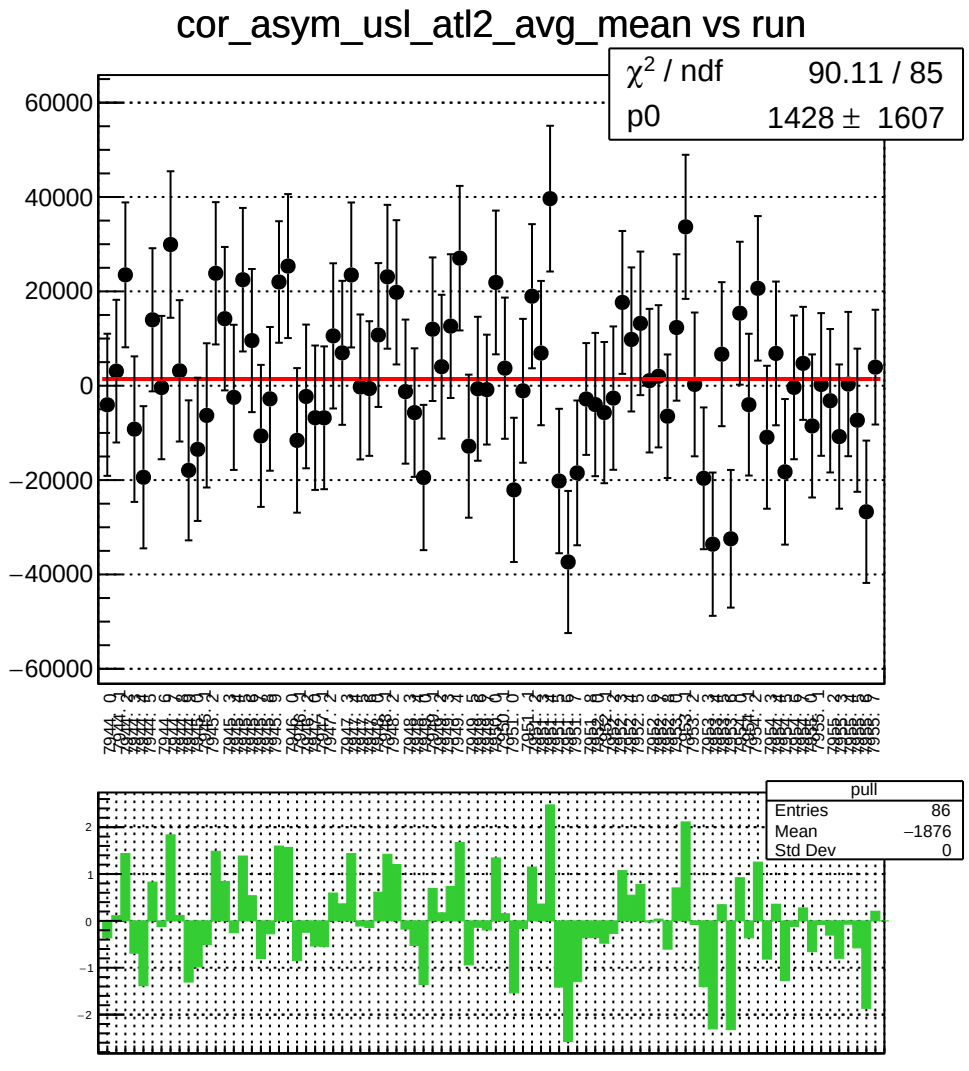

pull1D
Entries 86
Mean 0.002528
Std Dev 1.024

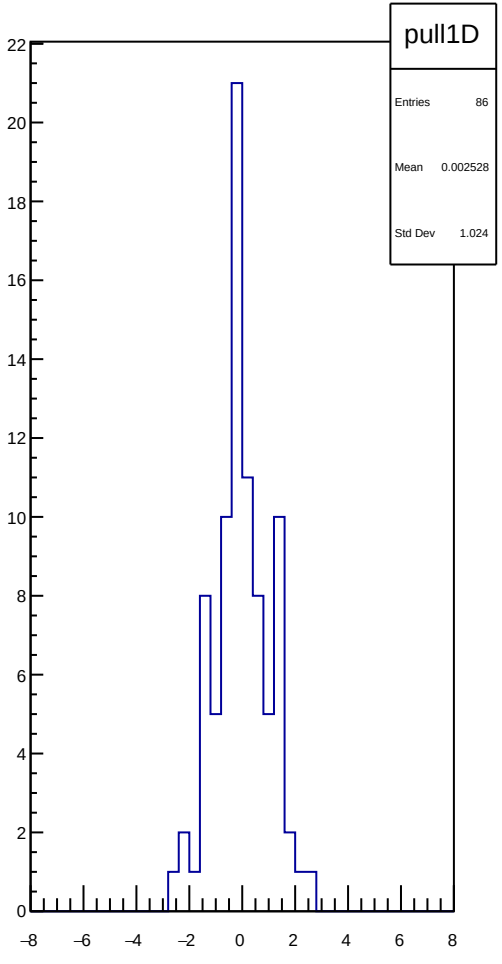

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 108.1 / 85
p0 1446 ± 1.136
1500
1480
1460
1440
1420

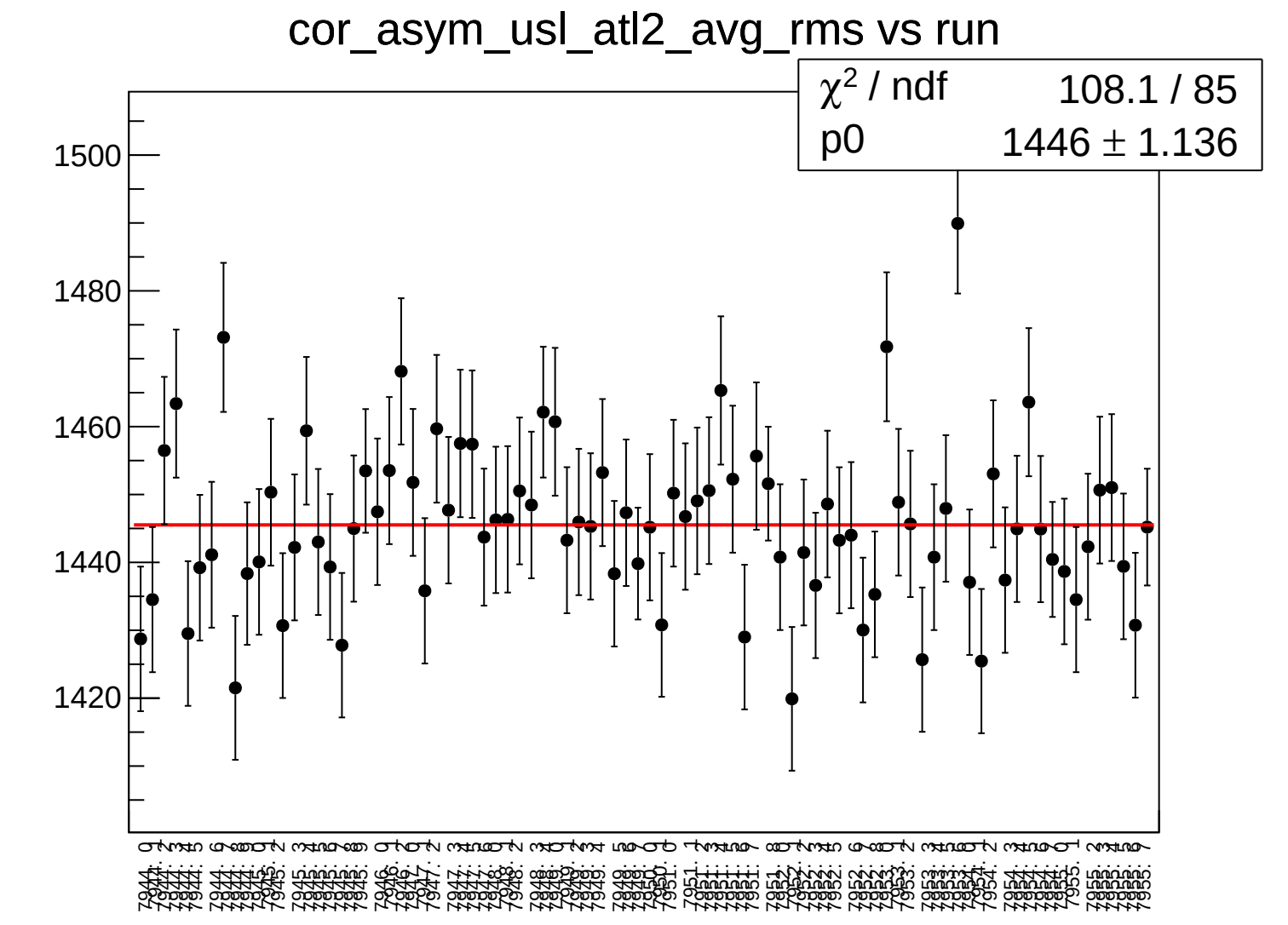

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.91 / 85
p0 −3161 ± 5606
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −212.2
Std Dev 0
3
2
1
0
−1
−2

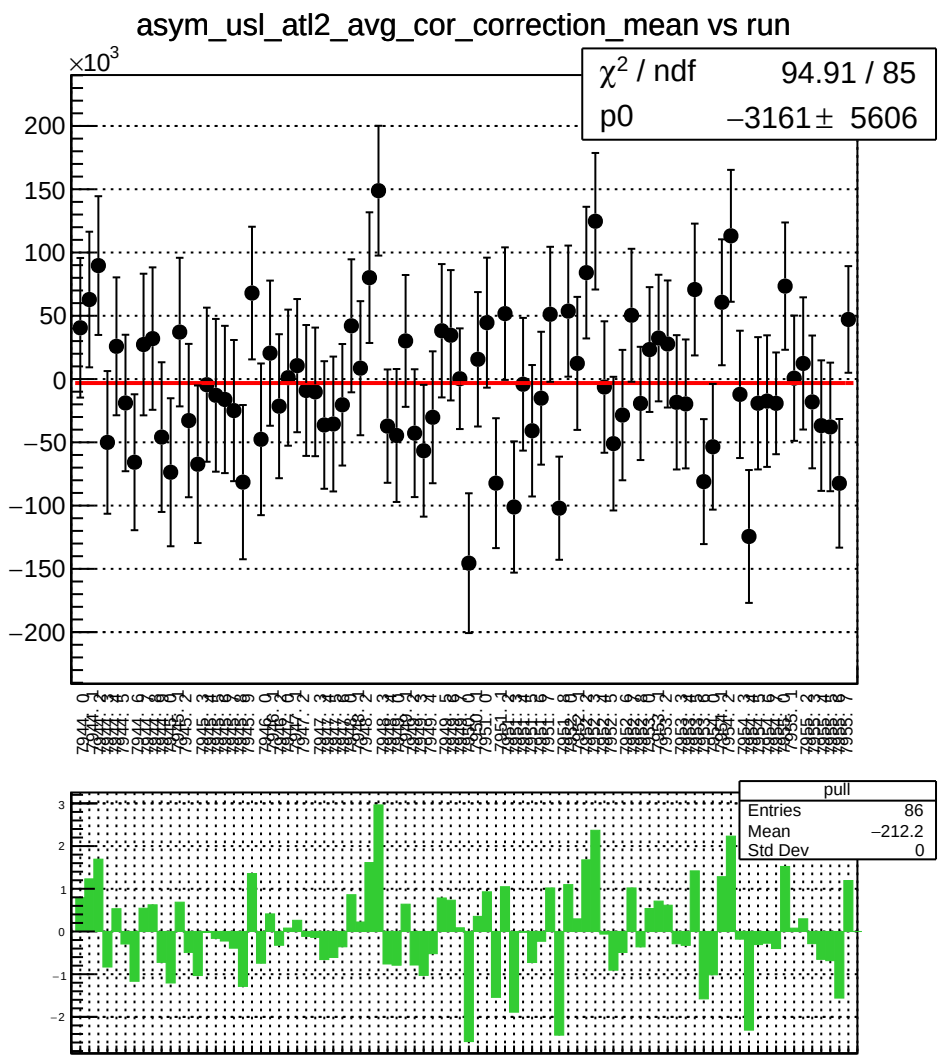

pull1D
Entries 86
Mean 0.001201
Std Dev 1.051
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

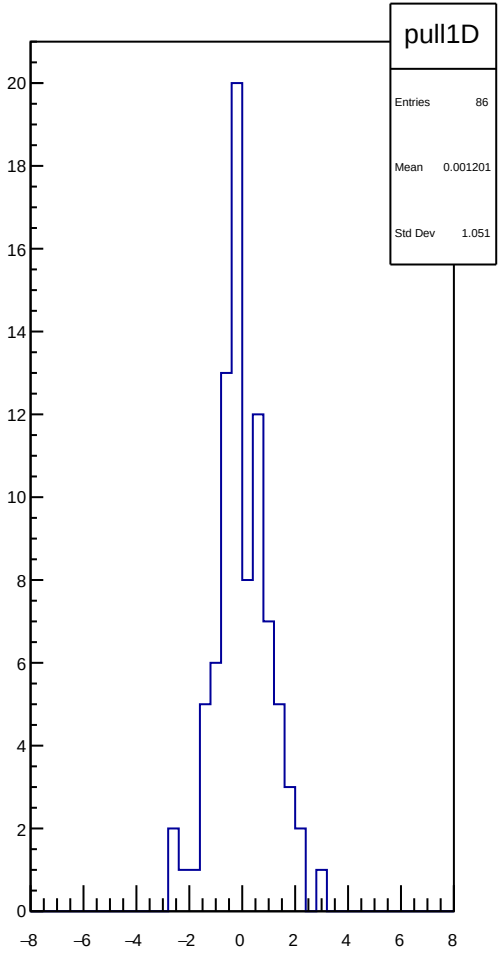

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 4853 / 85
p0 5036 ± 3.964
6000
5800
5600
5400
5200
5000
4800
4600

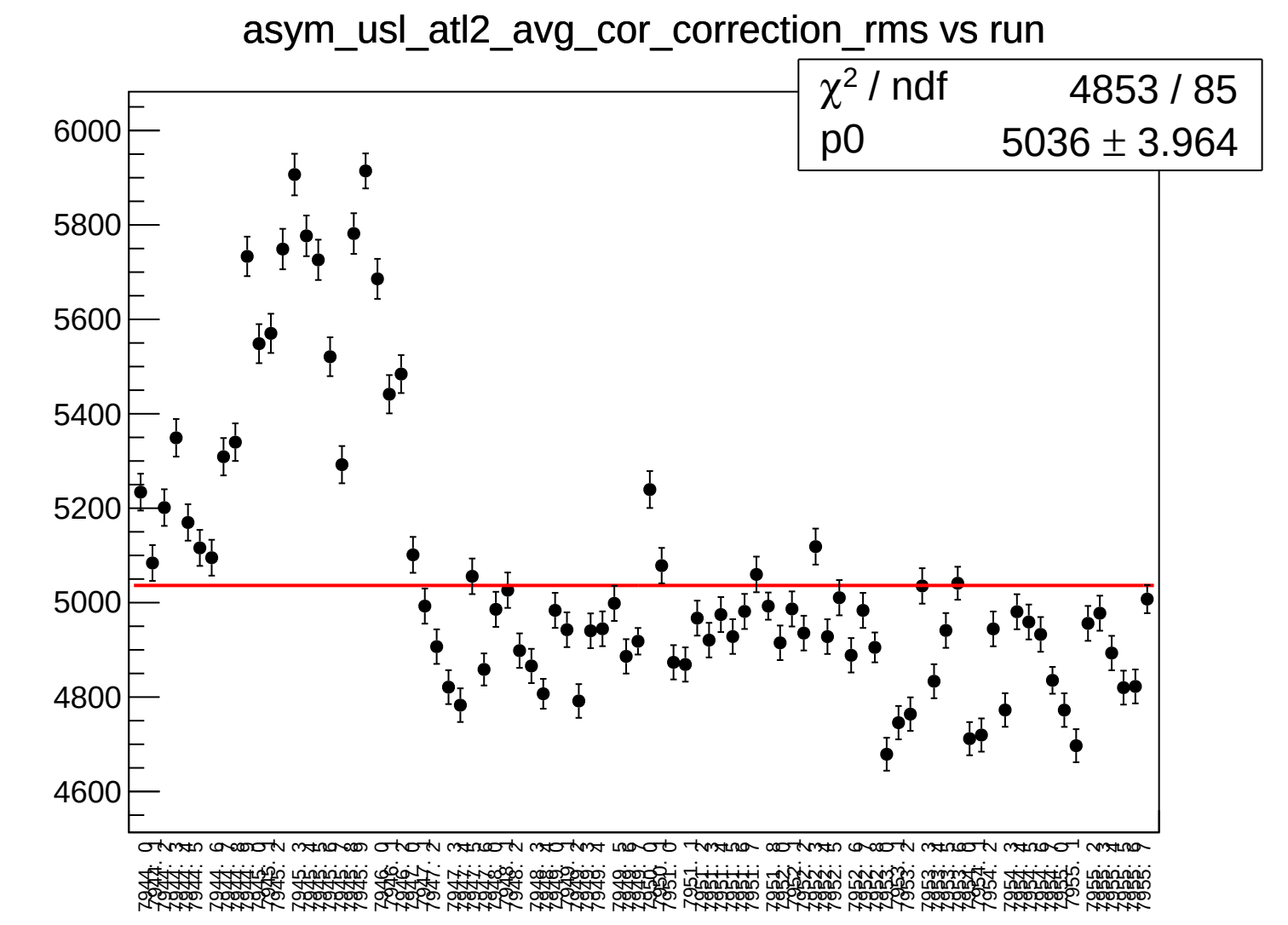

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.11 / 85
p0 1428 ± 1607
pull
Entries 86
Mean −1876
Std Dev 0

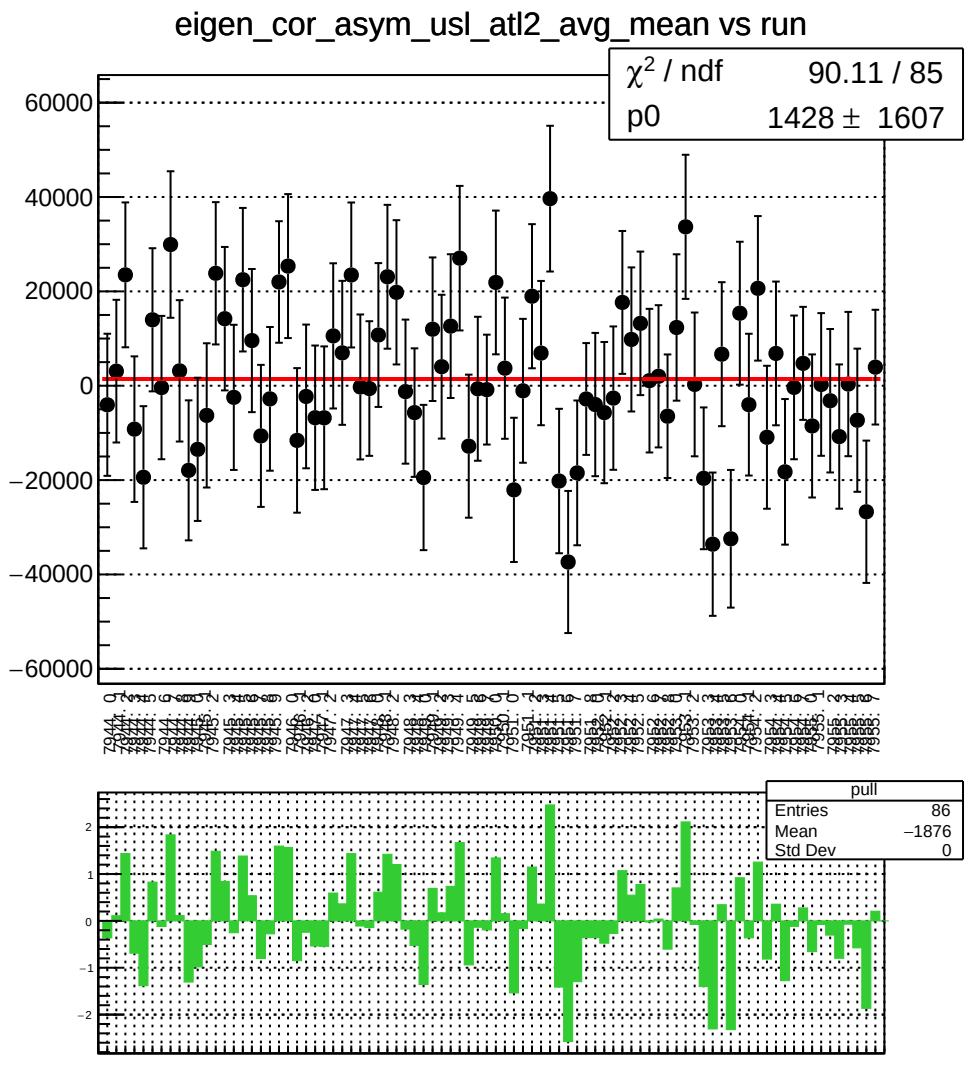

pull1D
Entries 86
Mean 0.002528
Std Dev 1.024

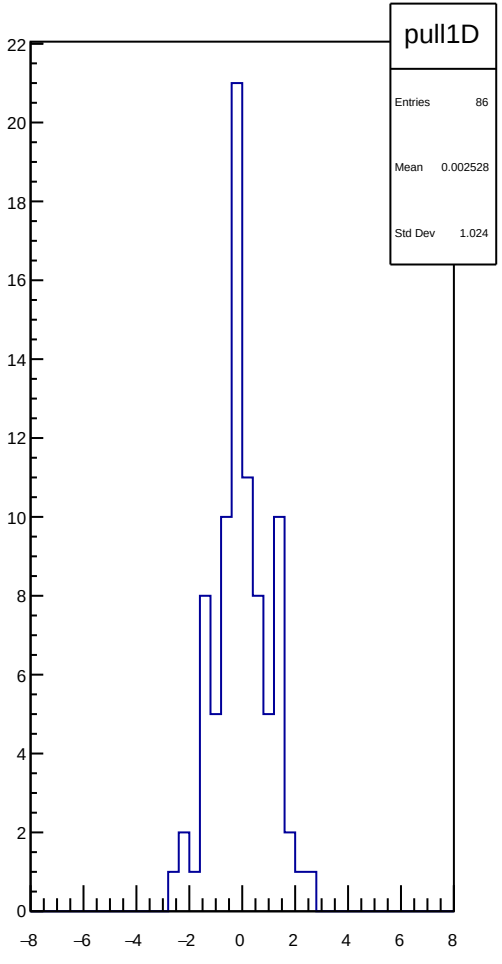

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 108.1 / 85
p0 1446 ± 1.136
1500
1480
1460
1440
1420

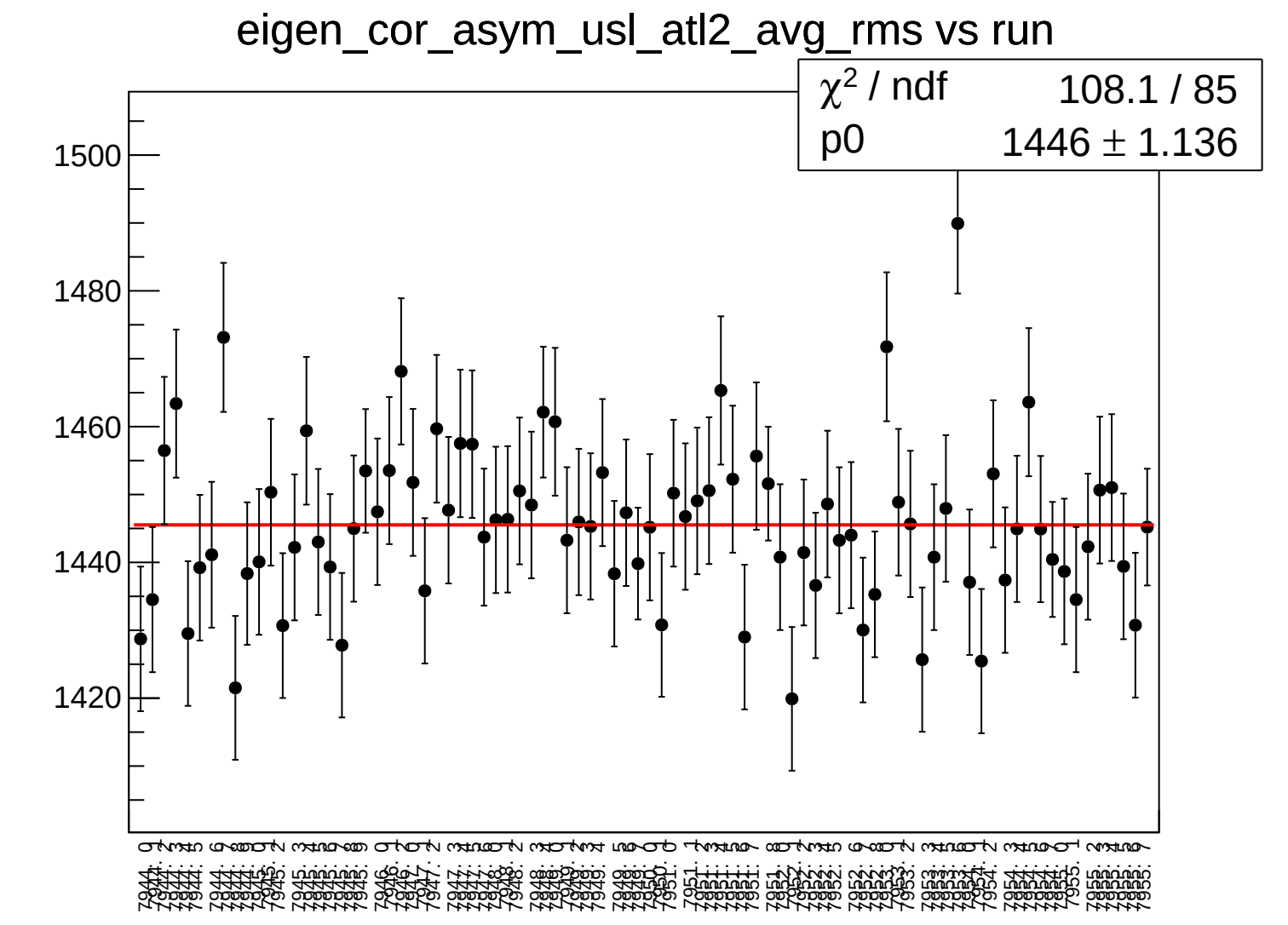

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.91 / 85
p0 −3161 ± 5606
pull
Entries 86
Mean −212.2
Std Dev 0

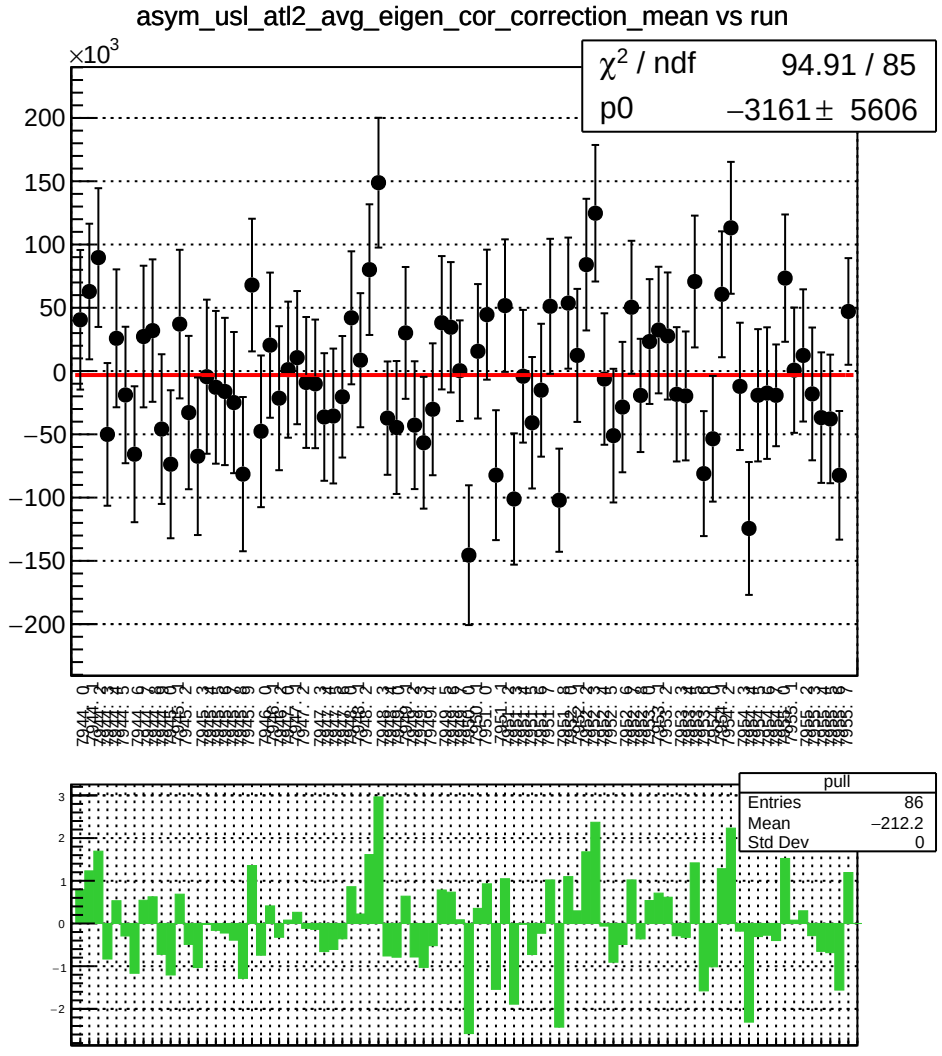

pull1D
Entries 86
Mean 0.001201
Std Dev 1.051

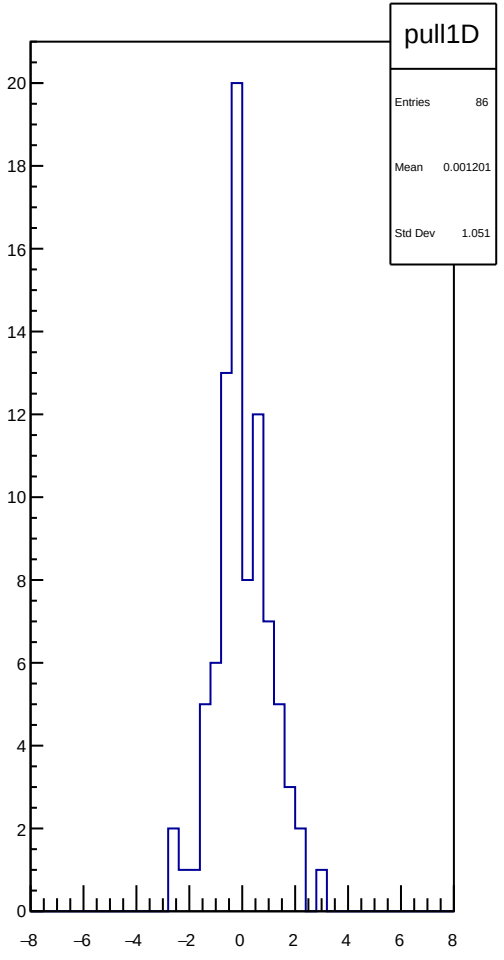

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 4853 / 85
p0 5036 ± 3.964
6000
5800
5600
5400
5200
5000
4800
4600

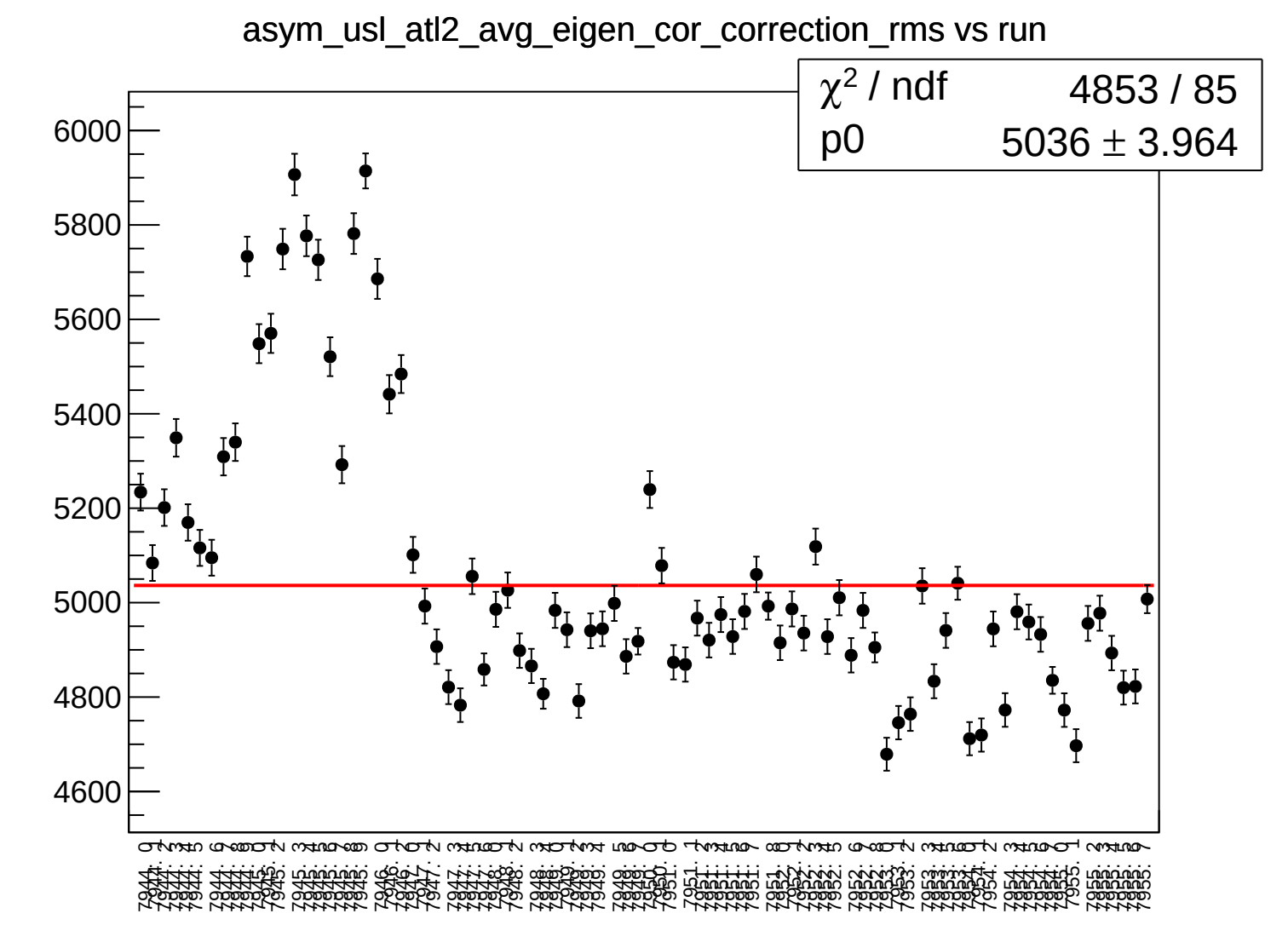

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.11 / 85
p0 1428 ± 1607
pull
Entries 86
Mean −1876
Std Dev 0

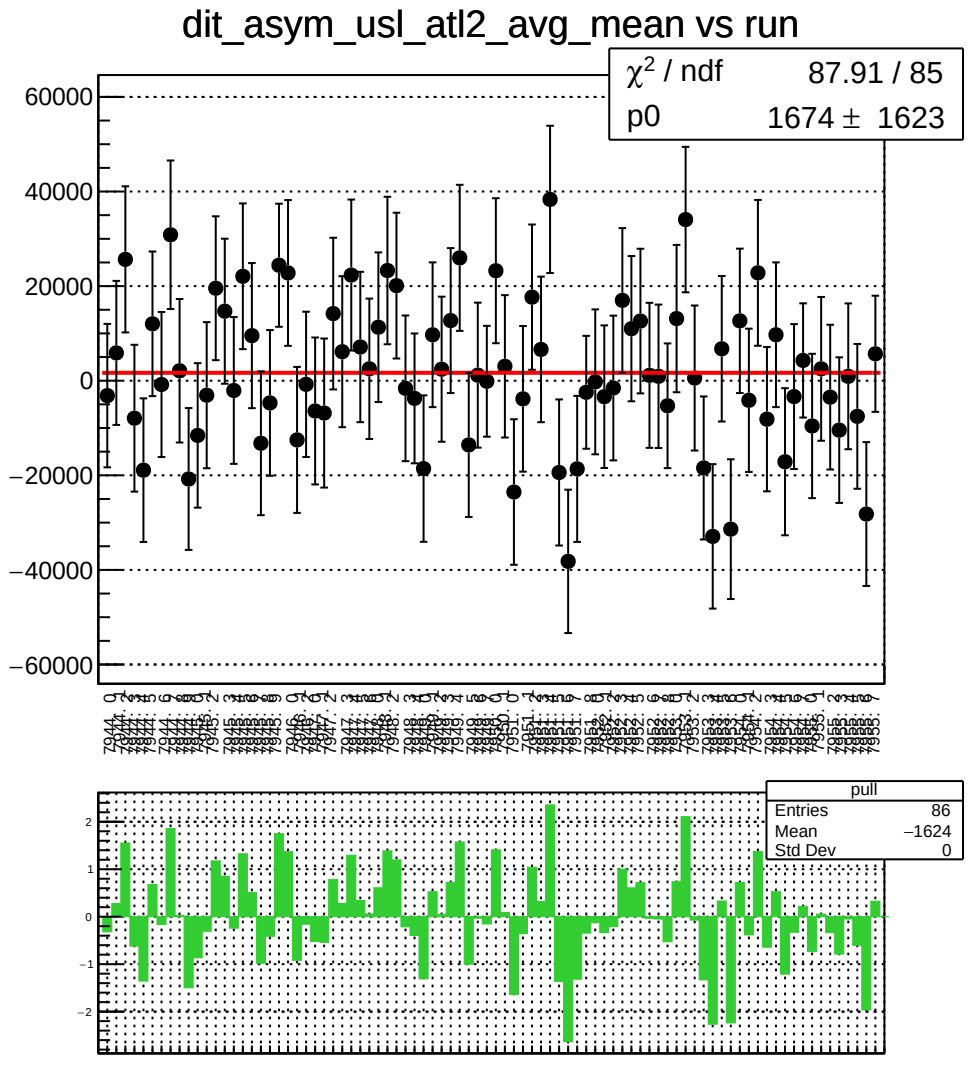

pull1D
Entries 86
Mean 0.002528
Std Dev 1.024

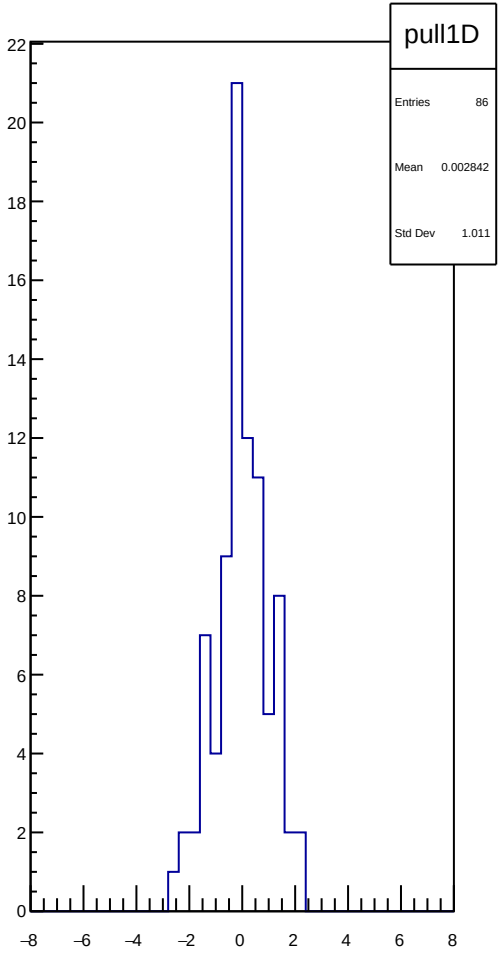

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 108.1 / 85
p0 1446 ± 1.136
1500
1480
1460
1440
1420

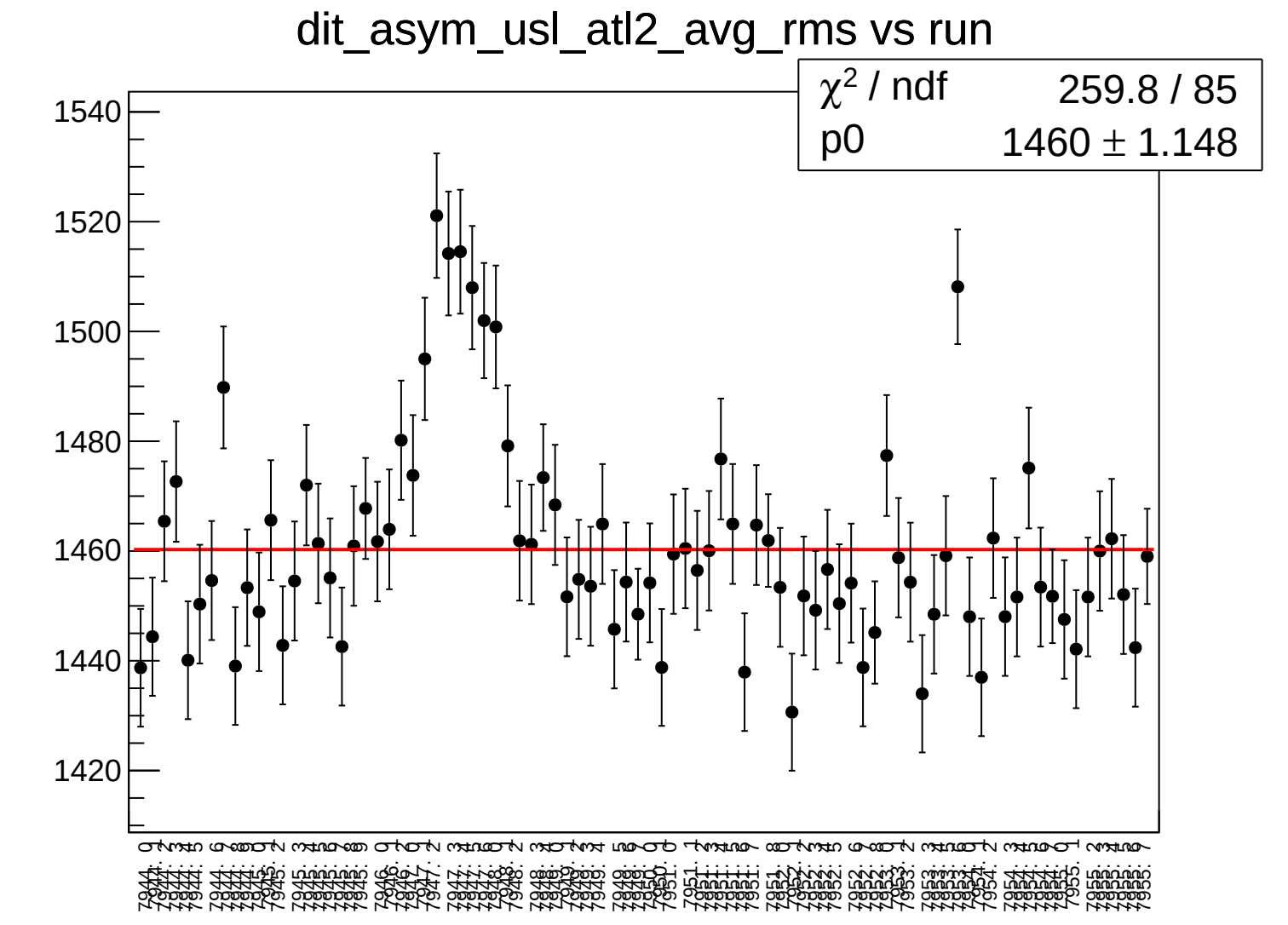

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.91 / 85
p0 −3161 ± 5606
pull
Entries 86
Mean −212.2
Std Dev 0

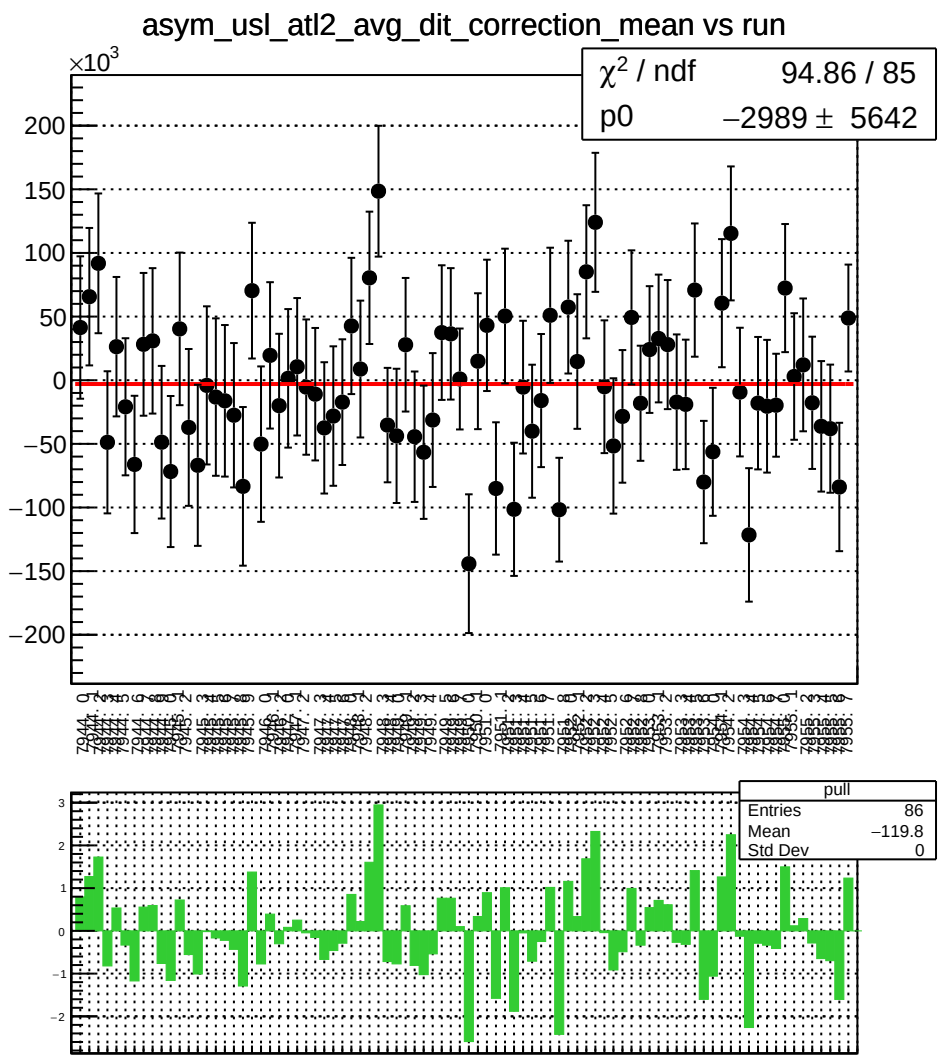

pull1D
Entries 86
Mean 0.001201
Std Dev 1.051

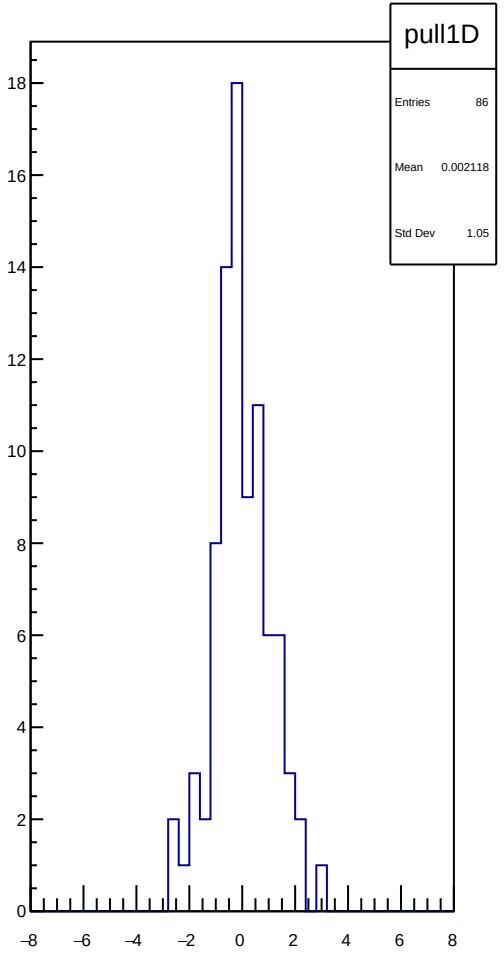

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4853 / 85
p0 5036 ± 3.964
6000
5800
5600
5400
5200
5000
4800
4600

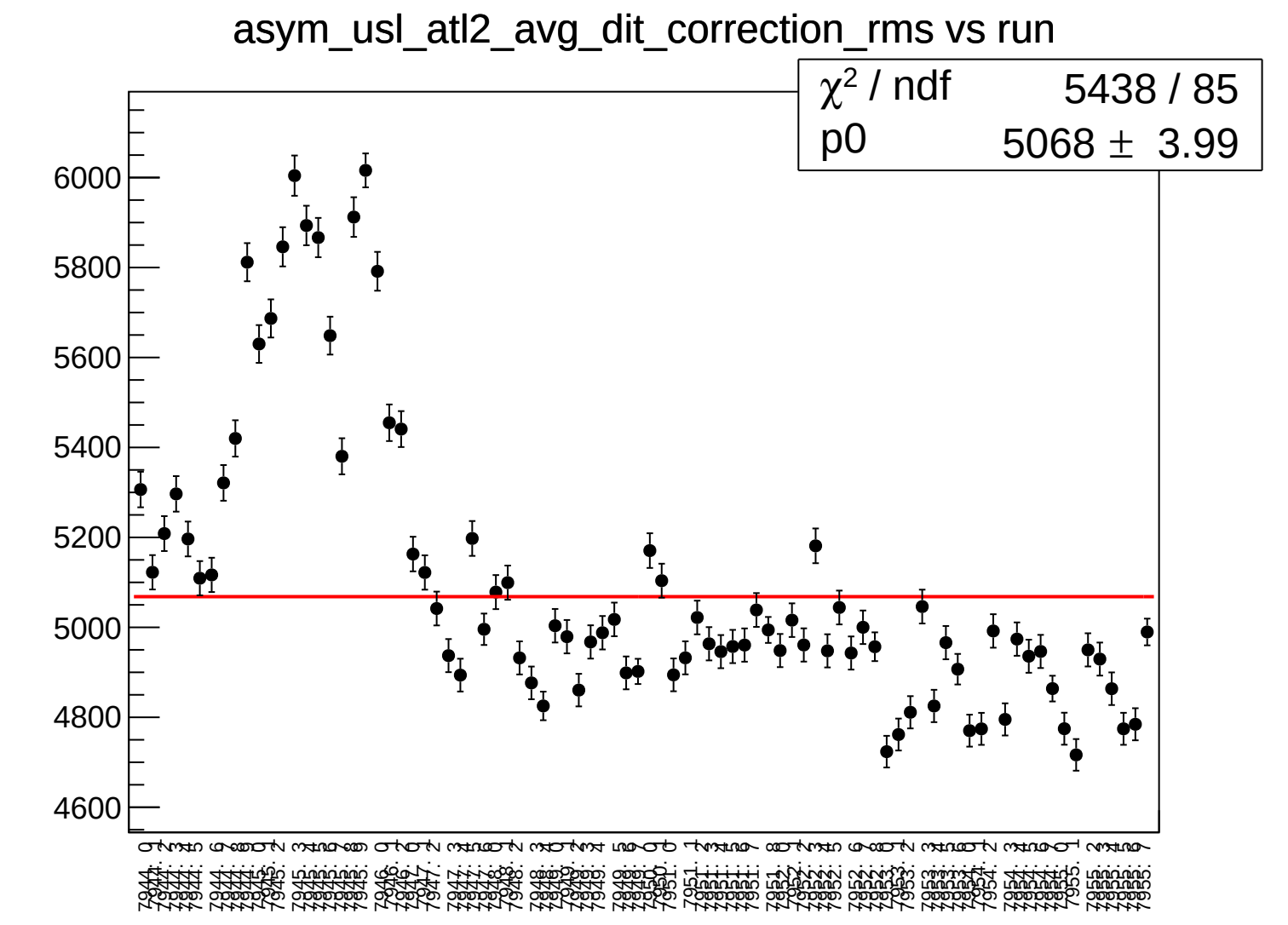

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 87.91 / 85
p0 1674 ± 1623
pull
Entries 86
Mean −1624
Std Dev 0

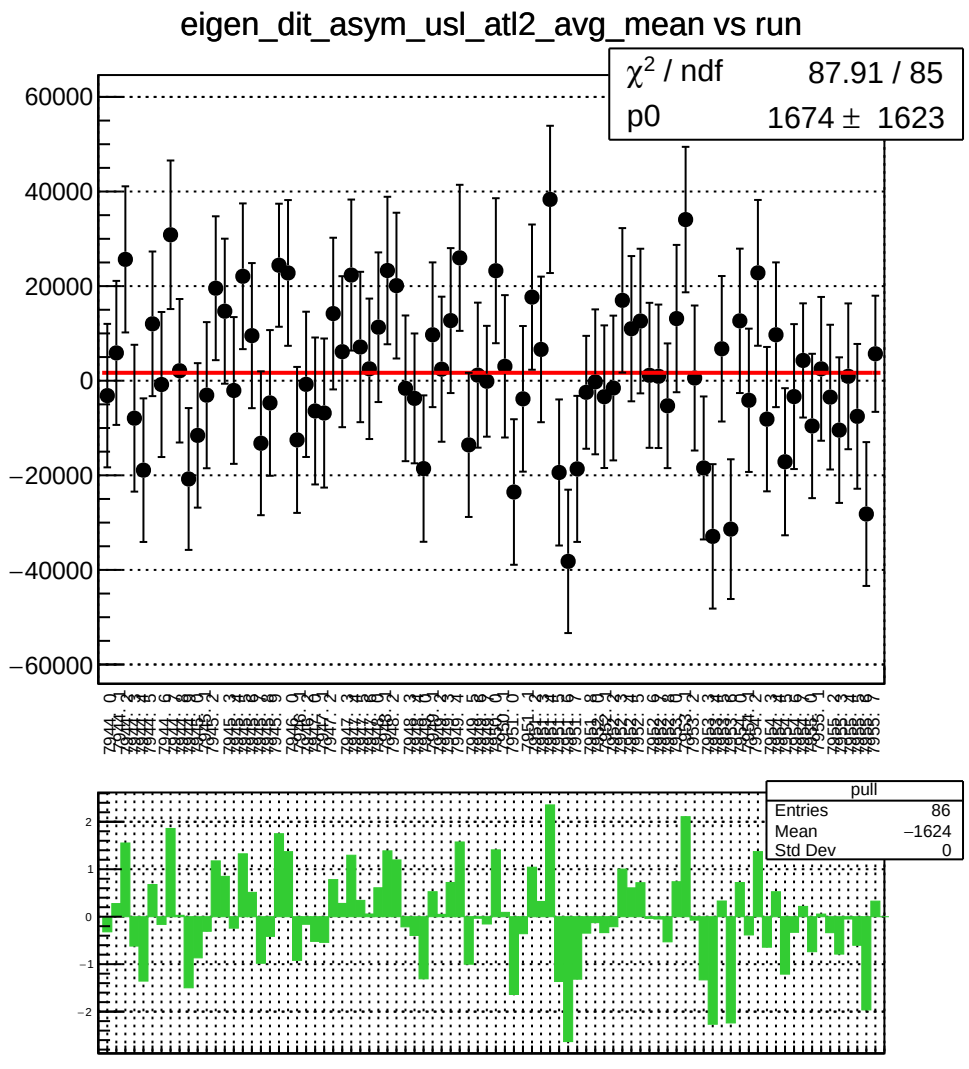

pull1D
Entries 86
Mean 0.002842
Std Dev 1.011

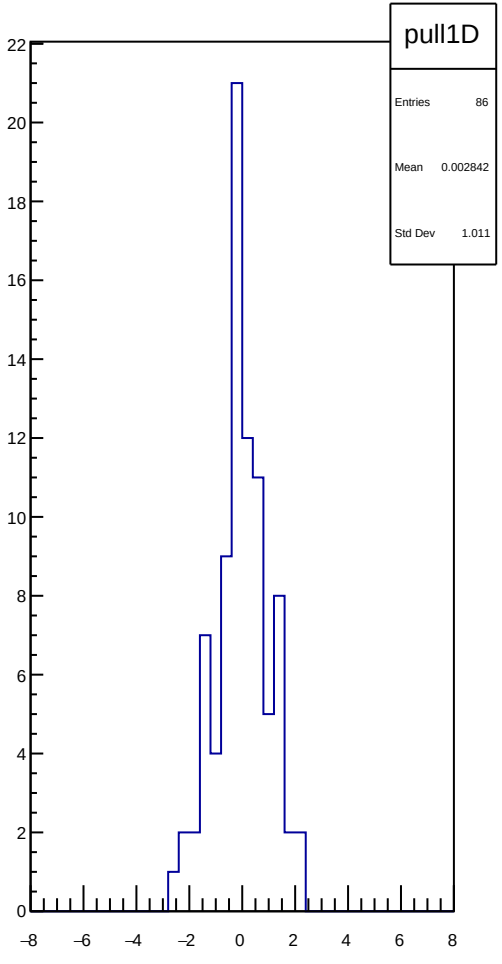

dit_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 259.8 / 85
p0 1460 ± 1.148
1540
1520
1500
1480
1460
1440
1420

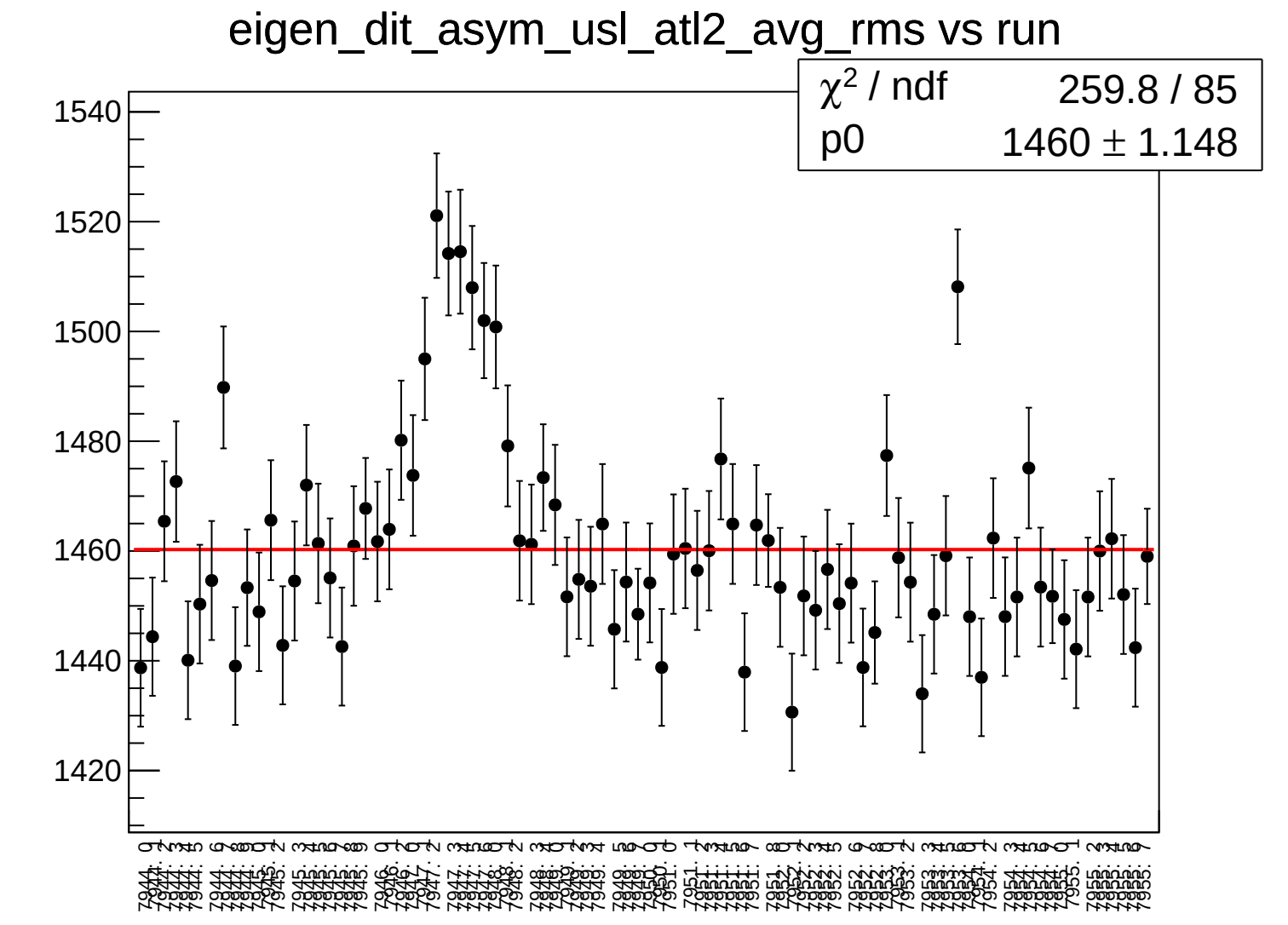

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.86 / 85
p0 −2989 ± 5642
pull
Entries 86
Mean −119.8
Std Dev 0

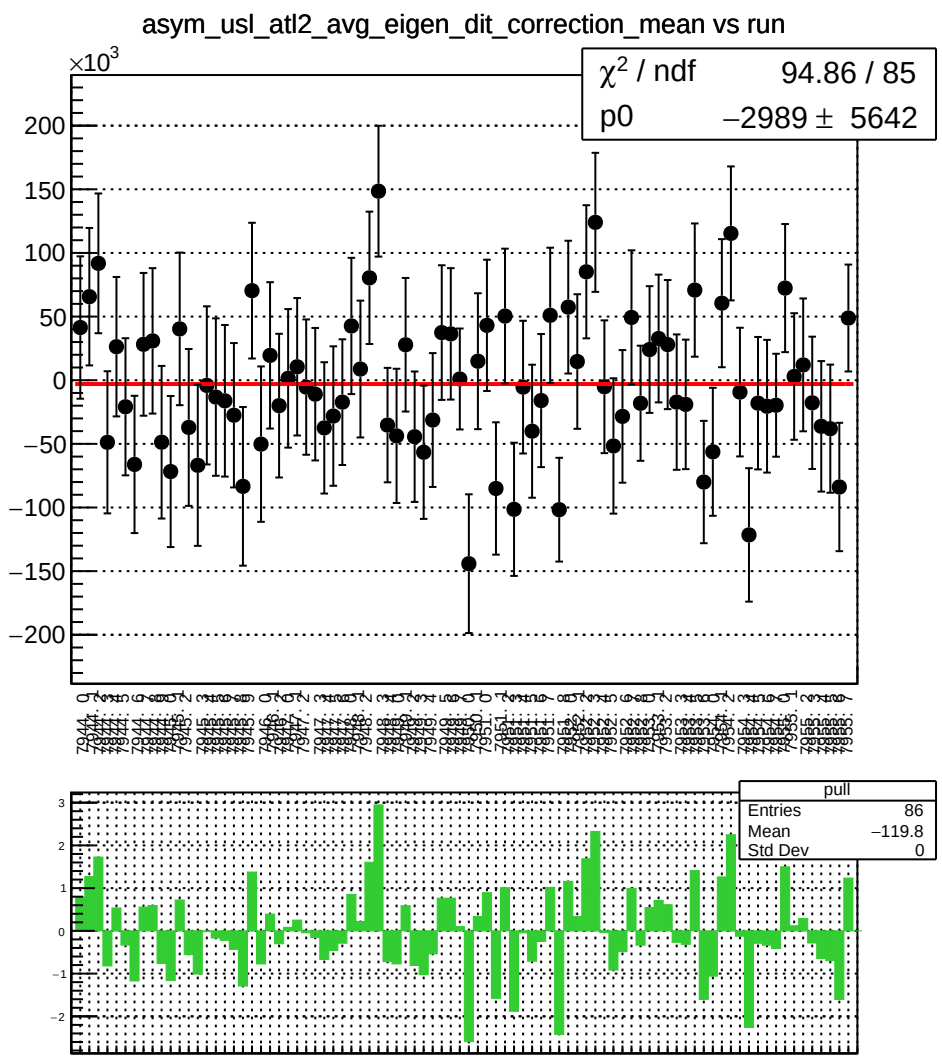

pull1D
Entries 86
Mean 0.002118
Std Dev 1.05

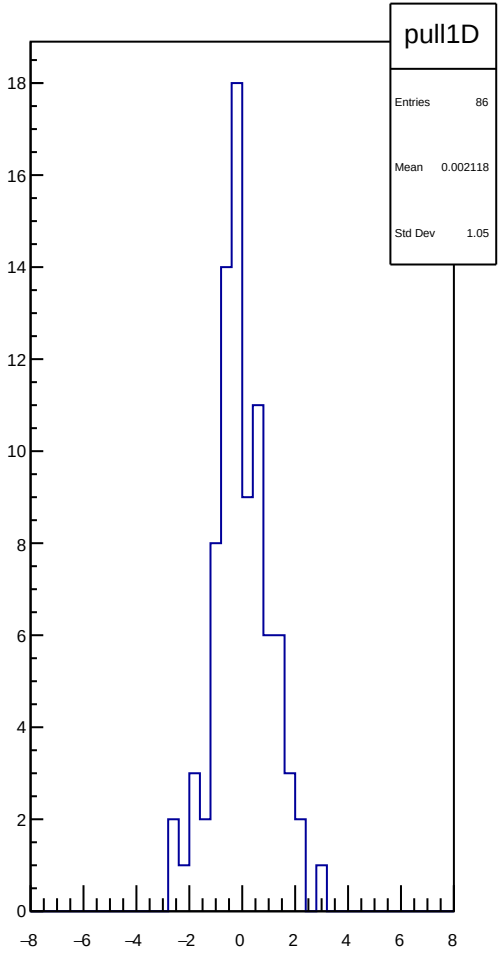

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 5438 / 85
p0 5068 ± 3.99
6000
5800
5600
5400
5200
5000
4800
4600

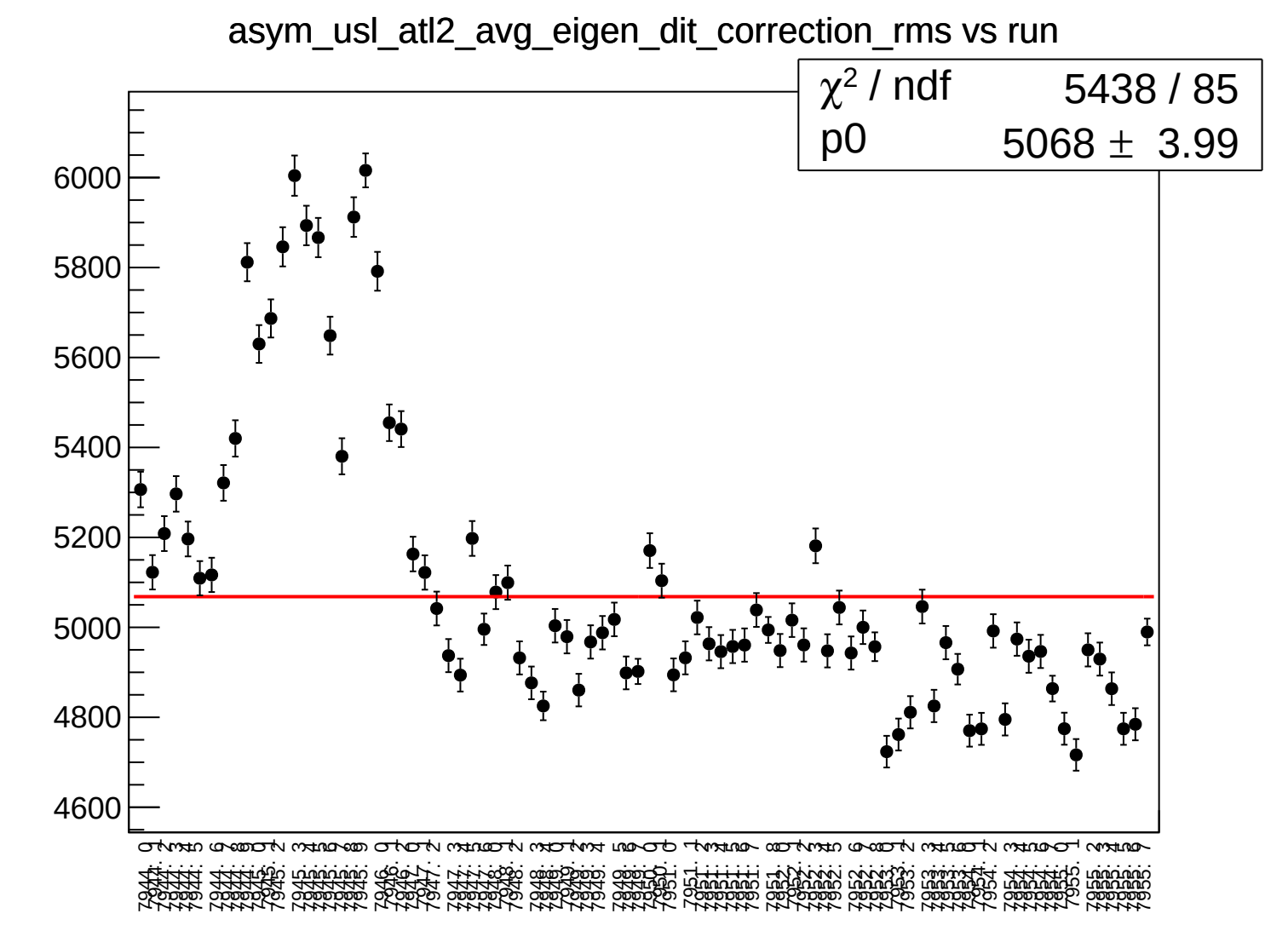

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 87.91 / 85
p0 1674 ± 1623
pull
Entries 86
Mean −1624
Std Dev 0

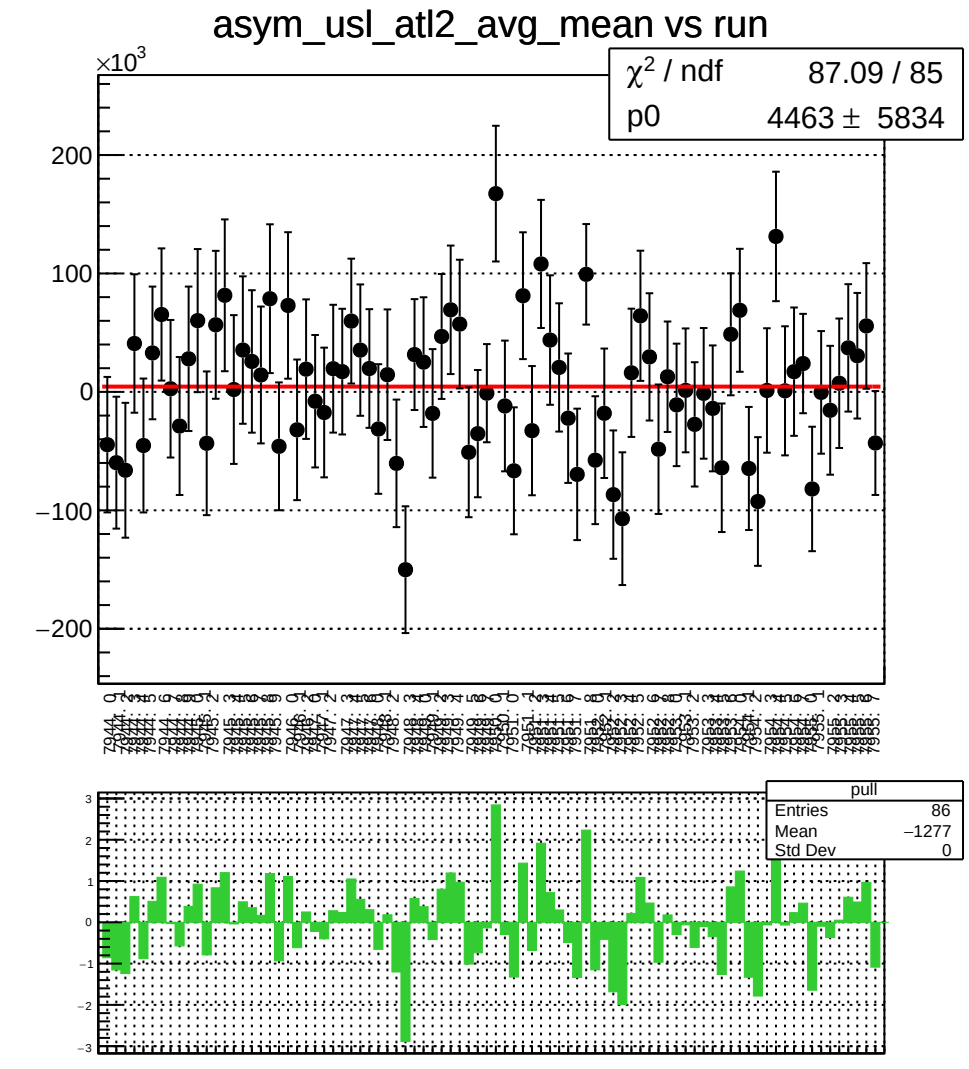

pull1D
Entries 86
Mean 0.002842
Std Dev 1.011

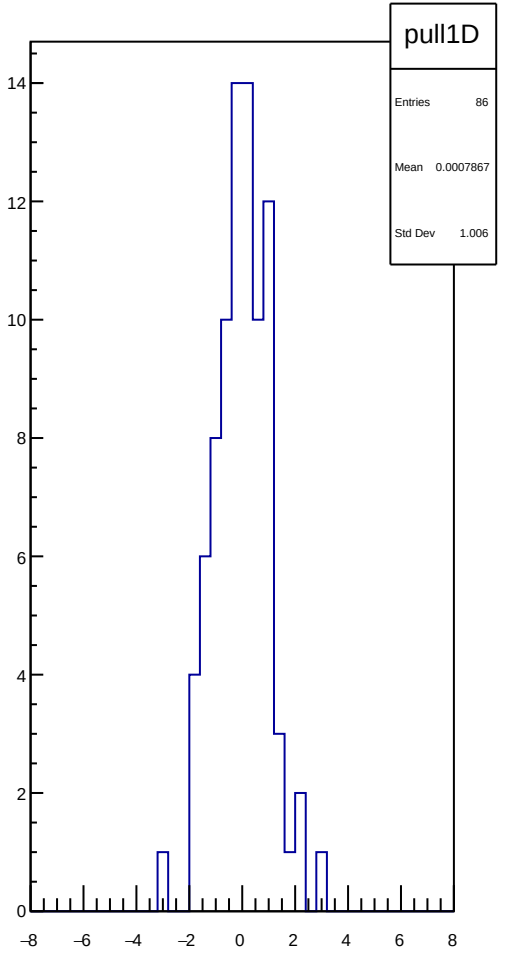

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 259.8 / 85
p0 1460 ± 1.148
1540
1520
1500
1480
1460
1440
1420

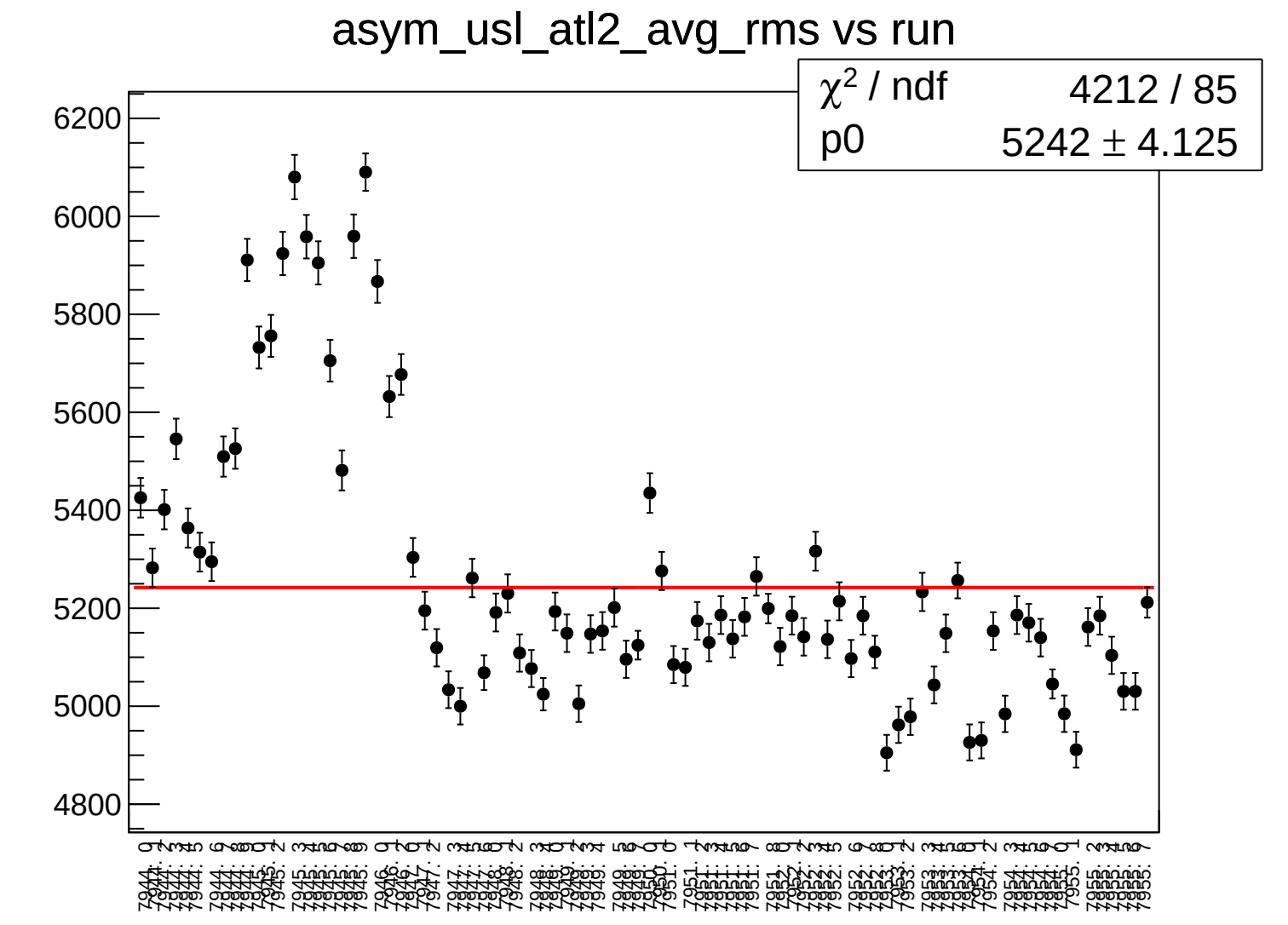

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.86 / 85
p0 −2989 ± 5642
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −119.8
Std Dev 0
3
2
1
0
−1
−2

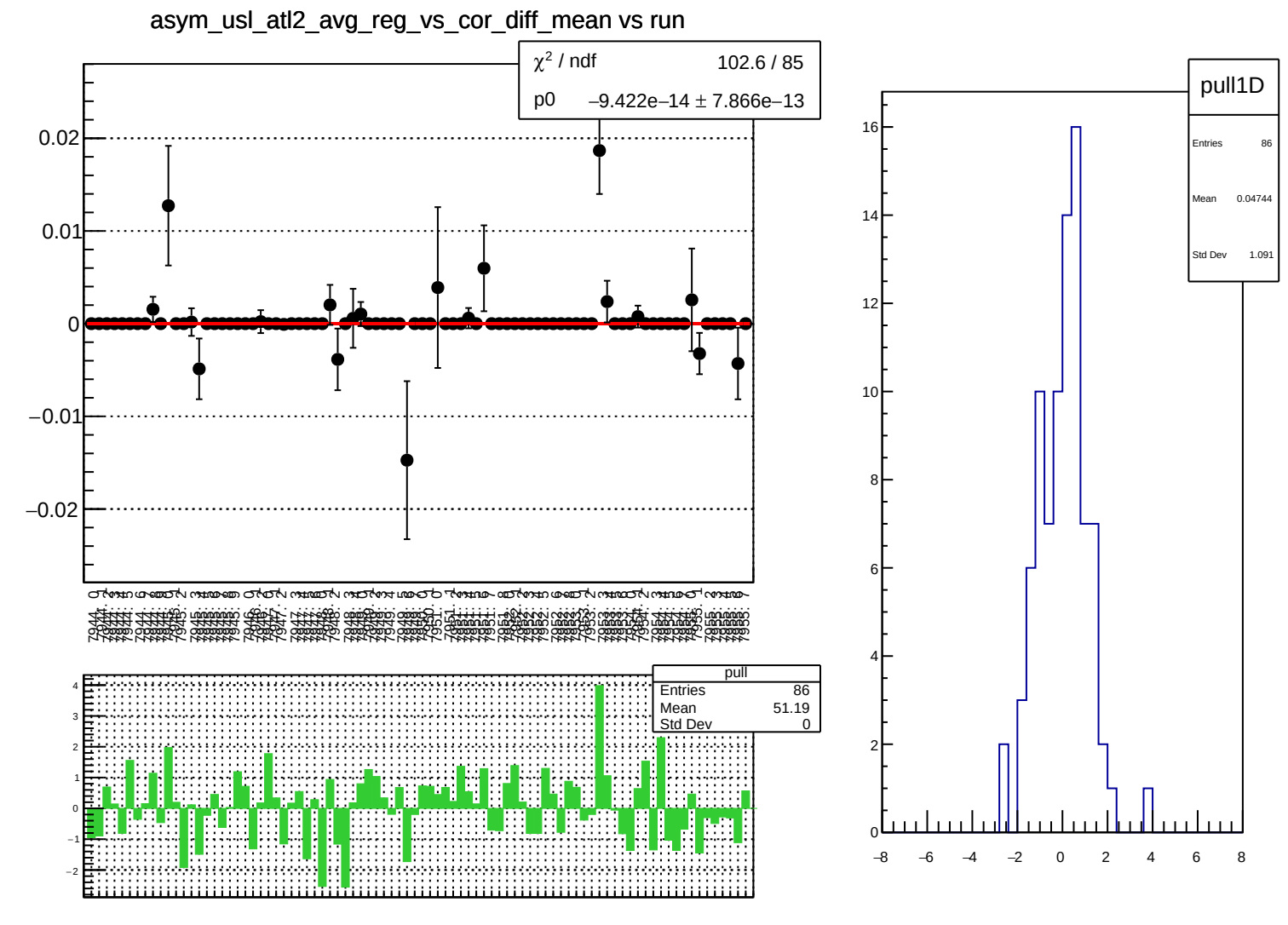

pull1D
Entries 86
Mean 0.002118
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

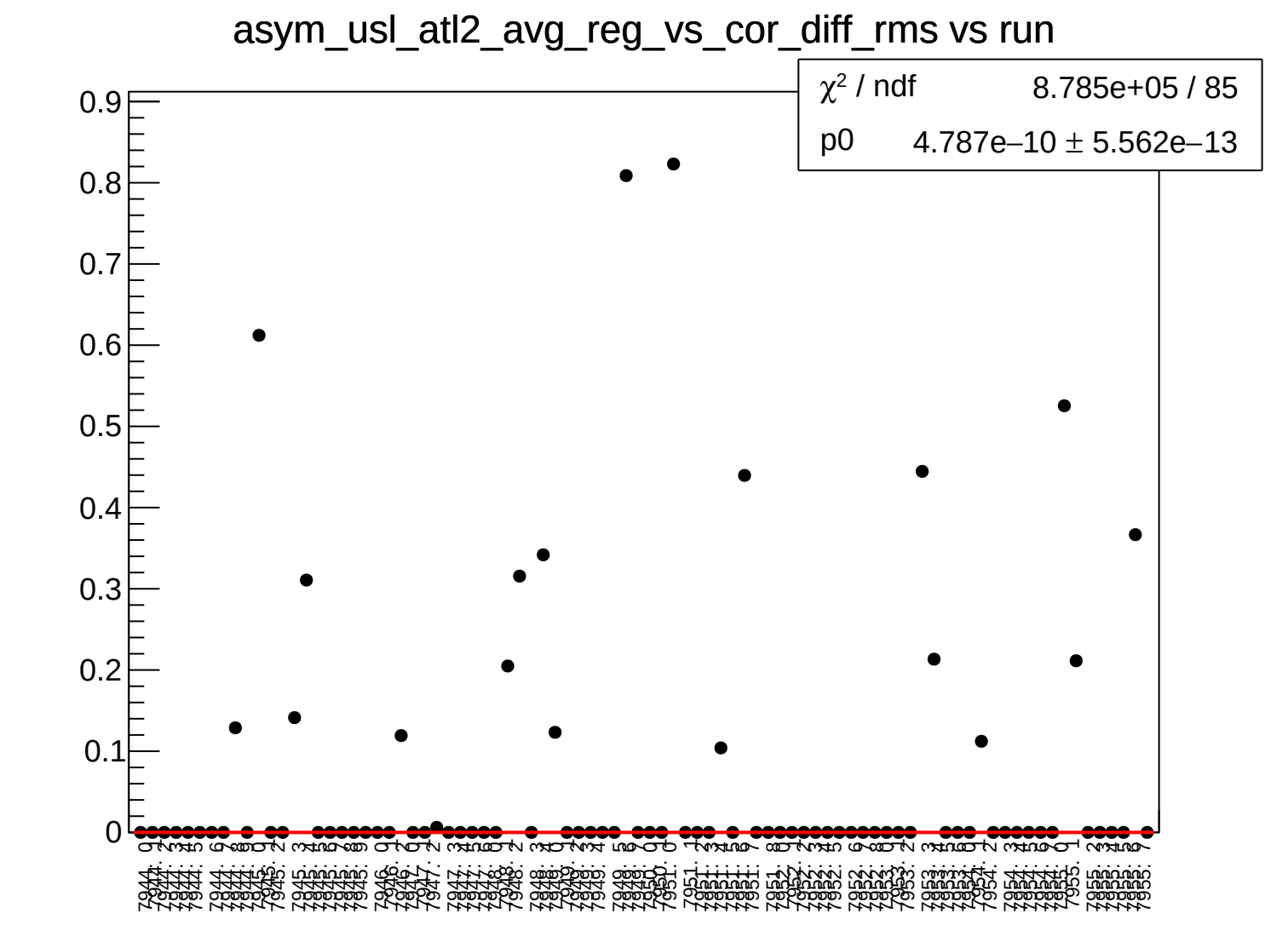

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5438 / 85
p0 5068 ± 3.99
6000
5800
5600
5400
5200
5000
4800
4600

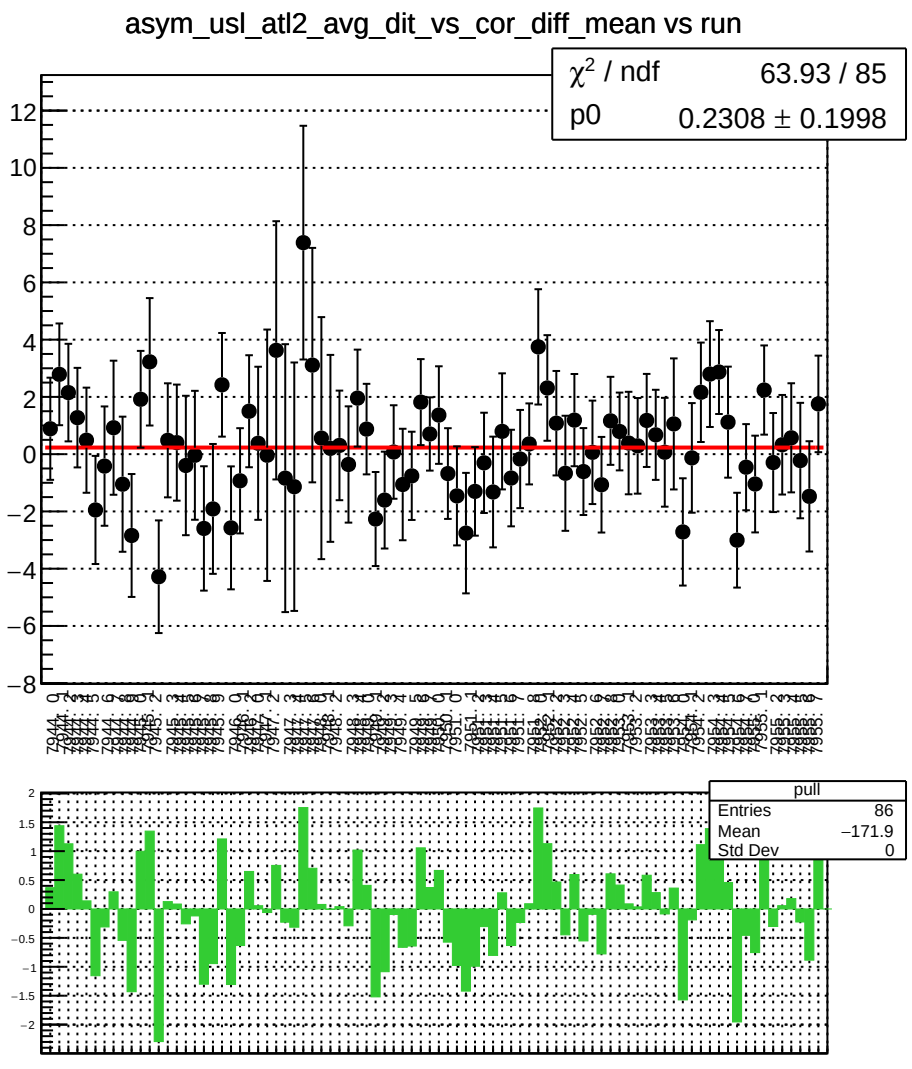

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 87.09 / 85
p0 4463 ± 5834
200
100
0
−100
−200
pull
Entries 86
Mean −1277
Std Dev 0
3
2
1
0
−1
−2
−3

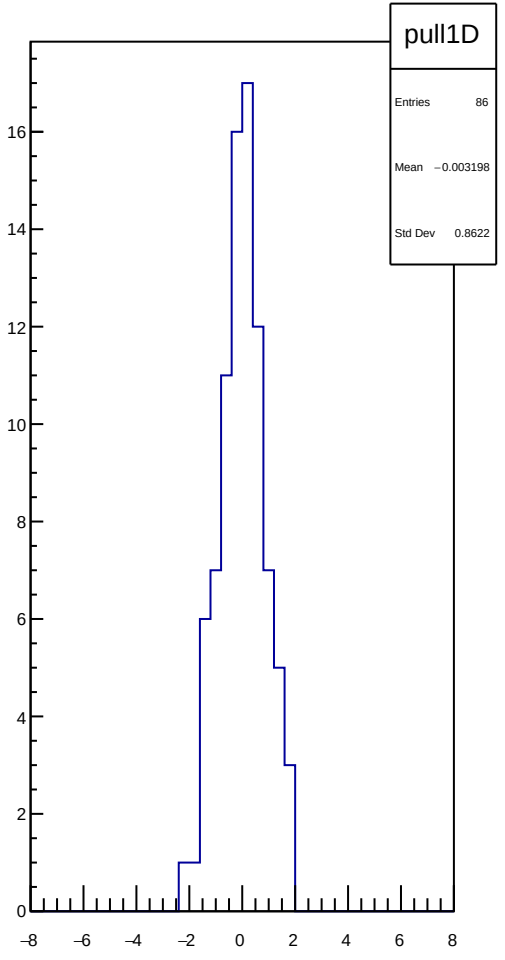

pull1D
Entries 86
Mean 0.0007867
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

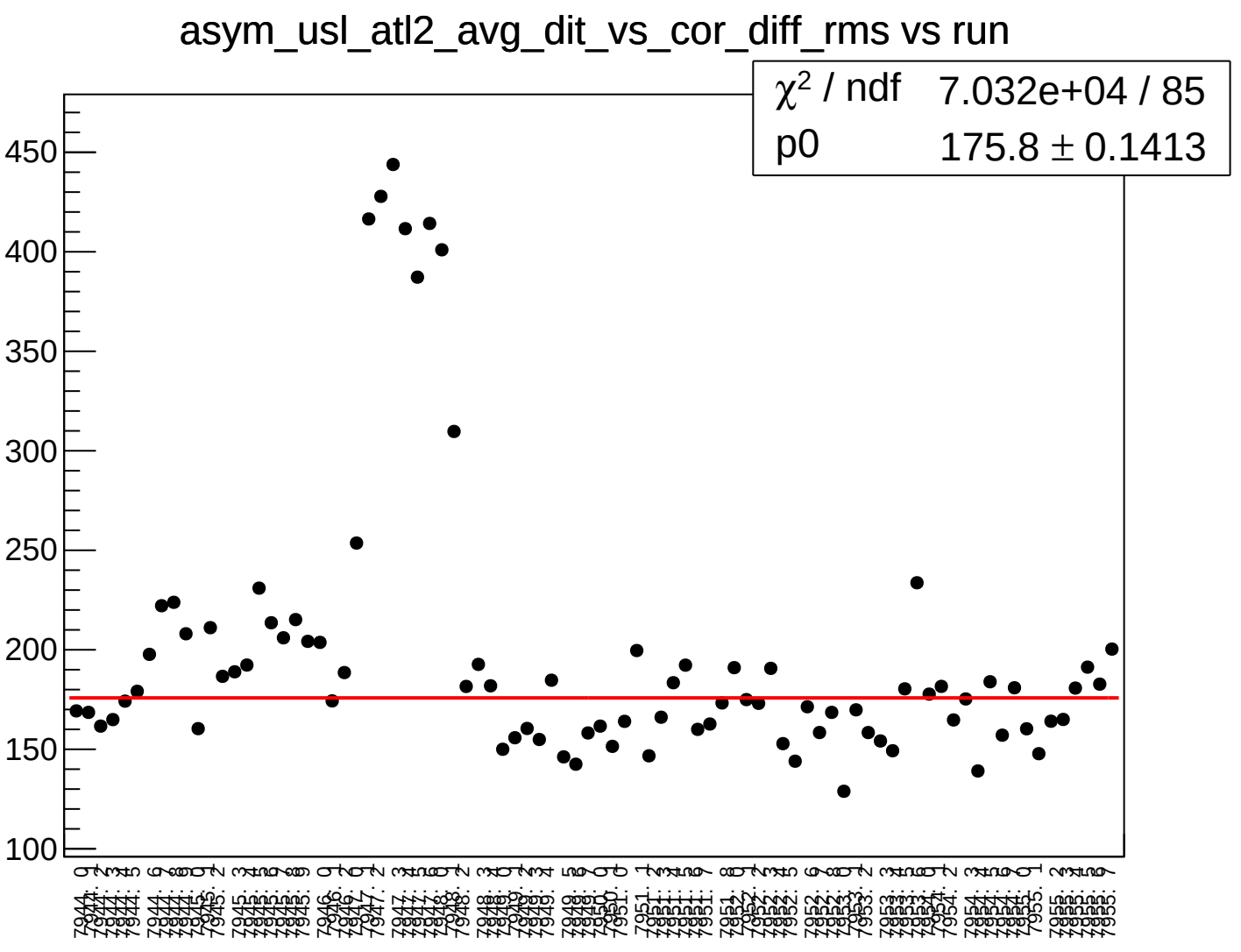

asym_usl_atl2_avg_rms vs run
χ² / ndf 4212 / 85
p0 5242 ± 4.125
6200
6000
5800
5600
5400
5200
5000
4800

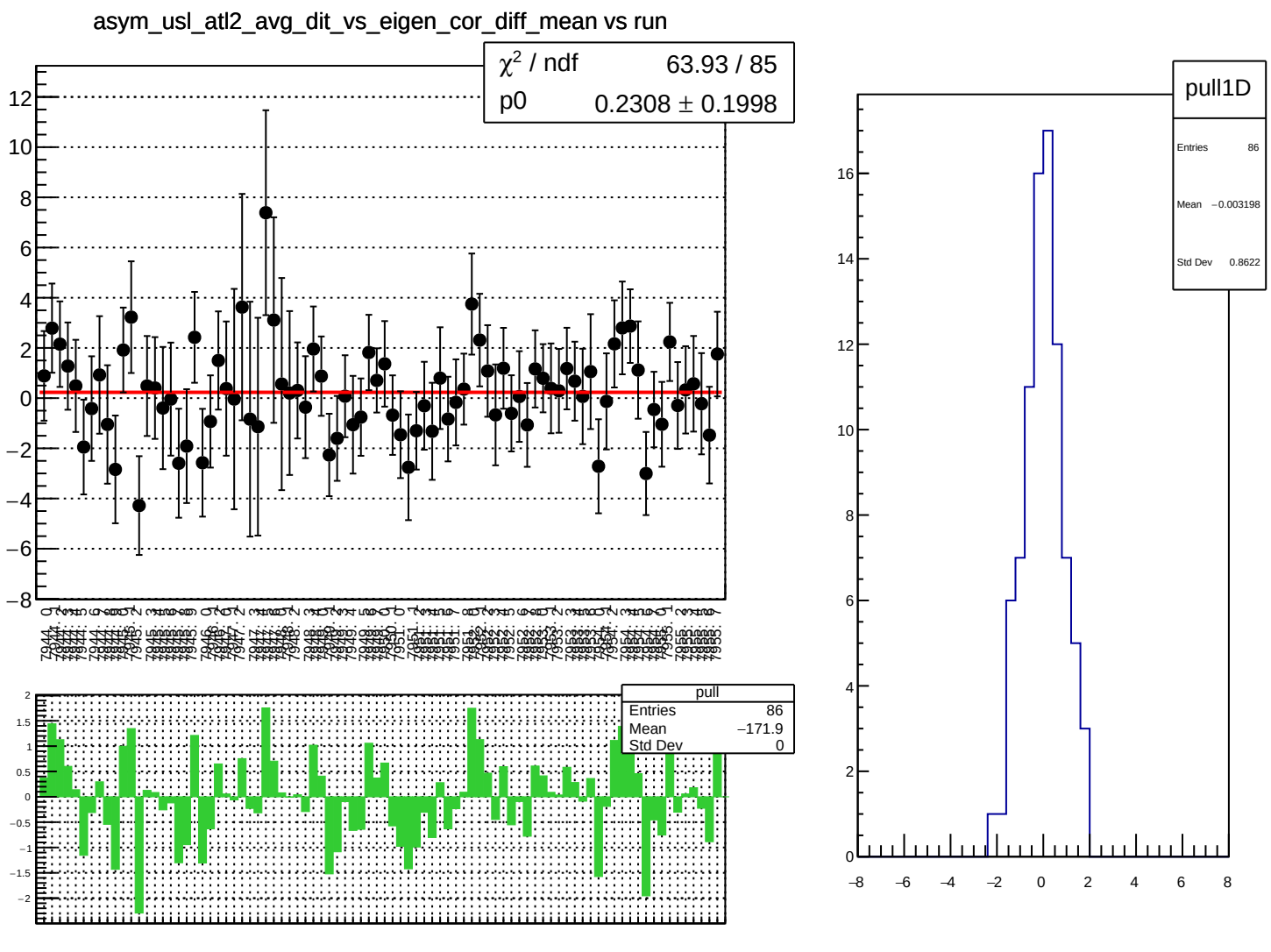

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 85
p0 −9.422e−14 ± 7.866e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 51.19
Std Dev 0
pull1D
Entries 86
Mean 0.04744
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

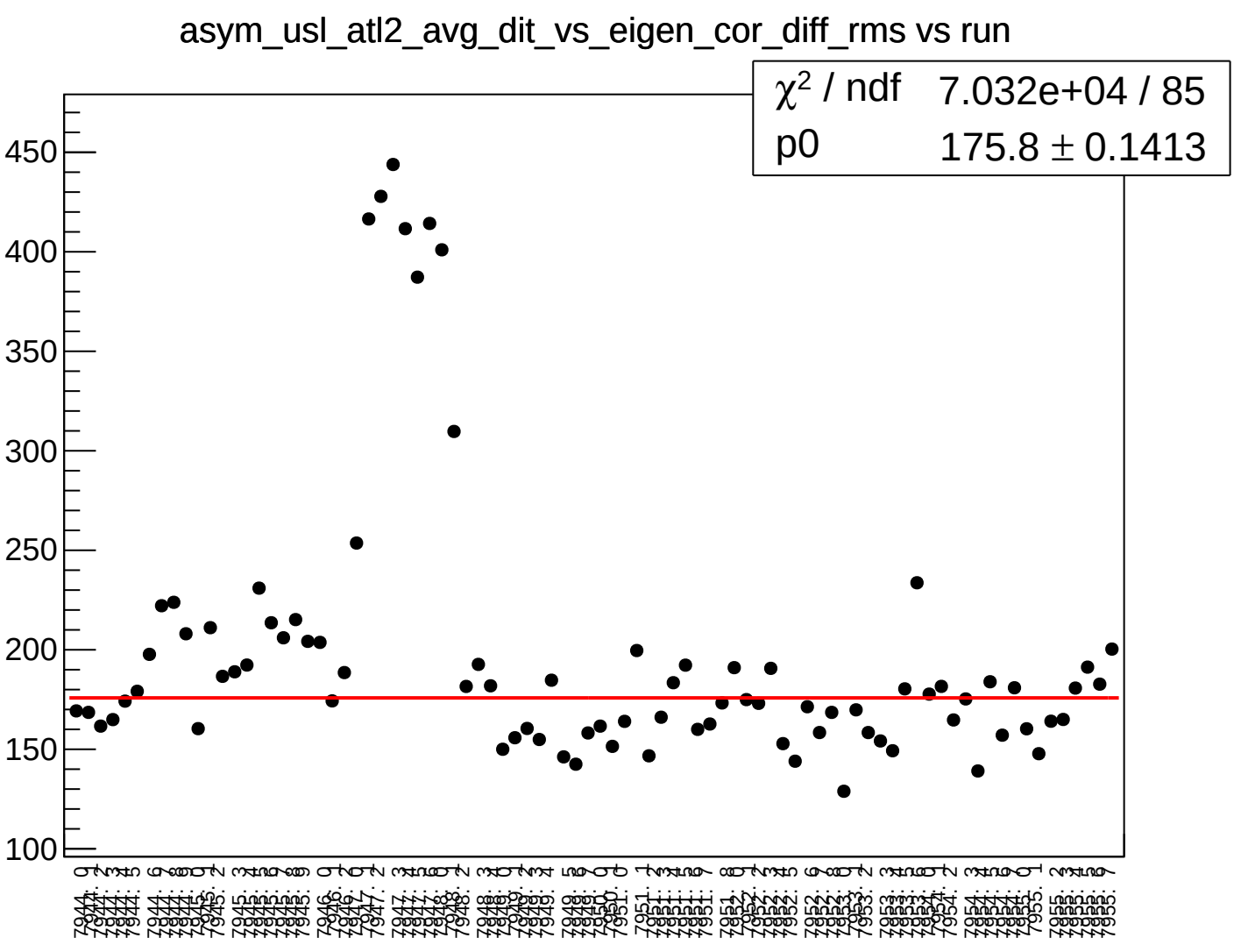

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.785e+05 / 85
p0 4.787e−10 ± 5.562e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

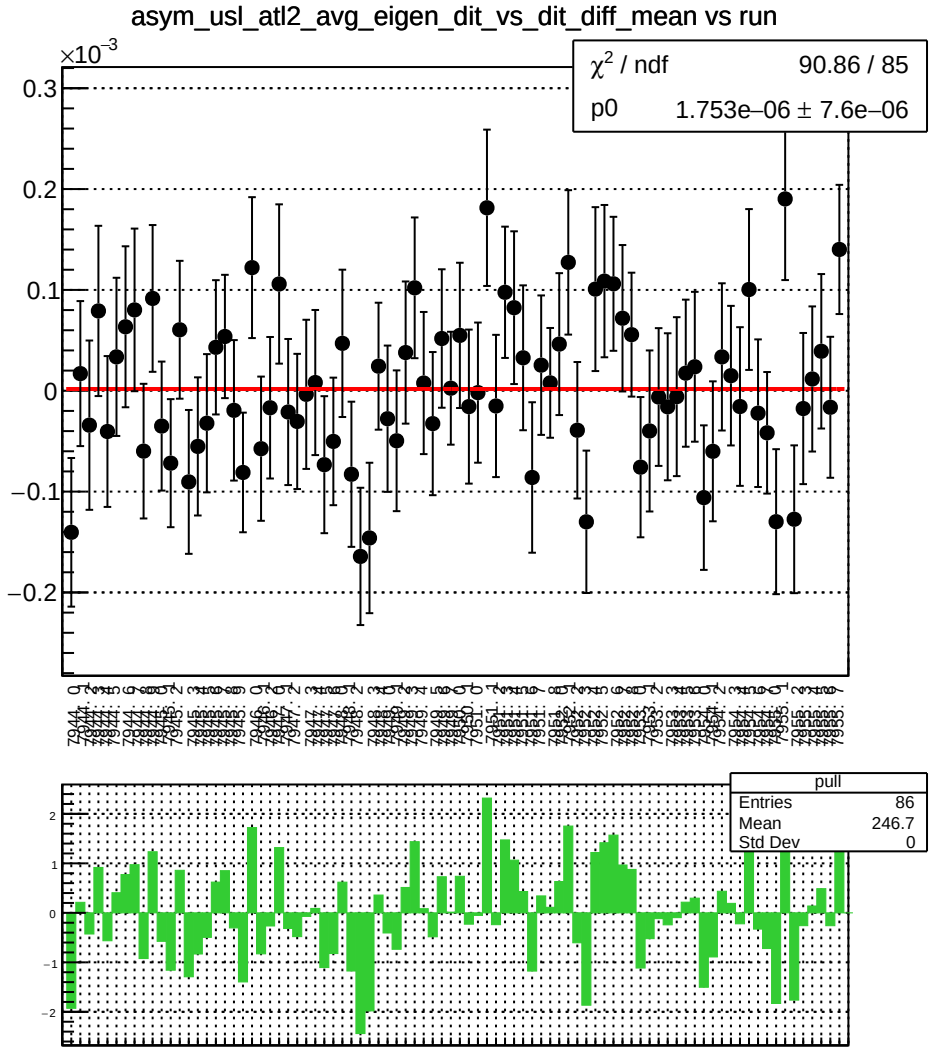

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 63.93 / 85
p0 0.2308 ± 0.1998
pull
Entries 86
Mean −171.9
Std Dev 0

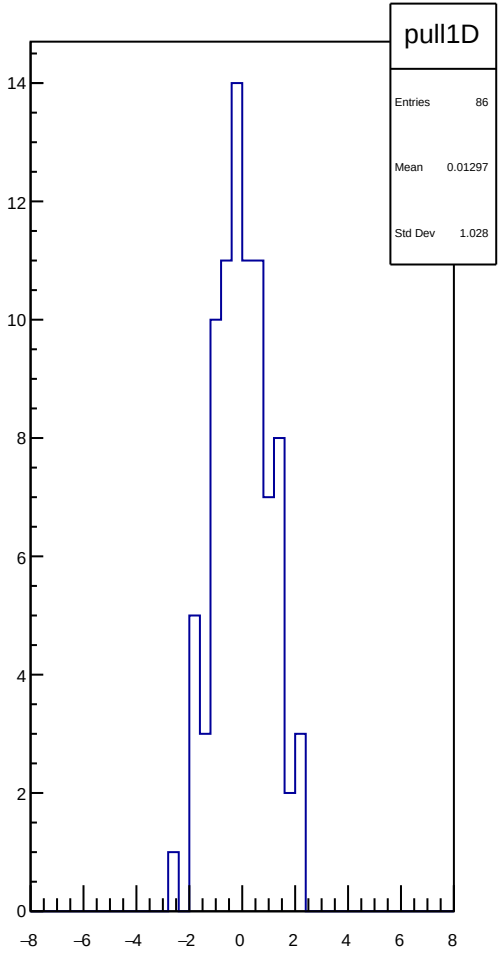

pull1D
Entries 86
Mean −0.003198
Std Dev 0.8622

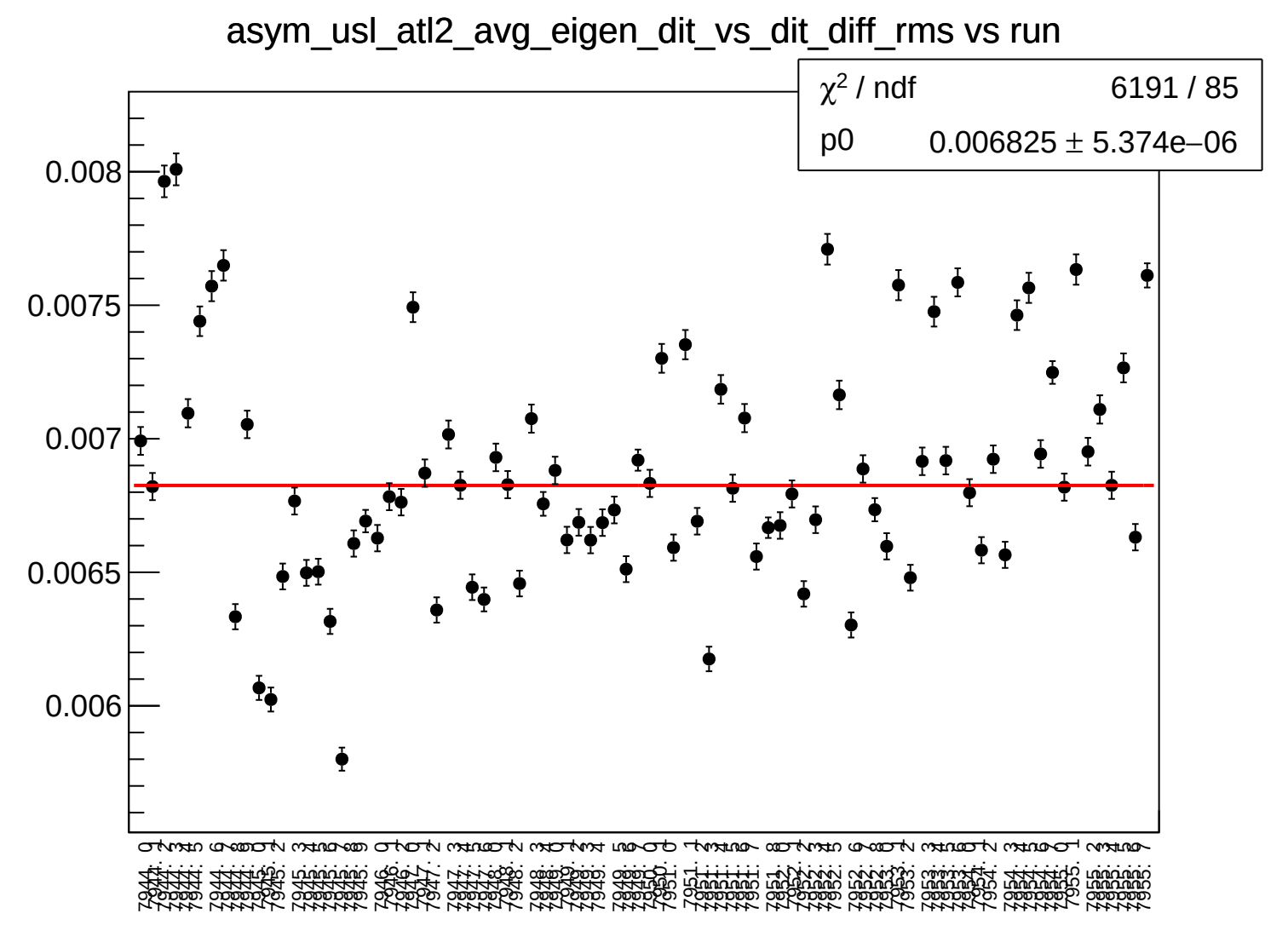

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.032e+04 / 85
p0 175.8 ± 0.1413
450
400
350
300
250
200
150
100

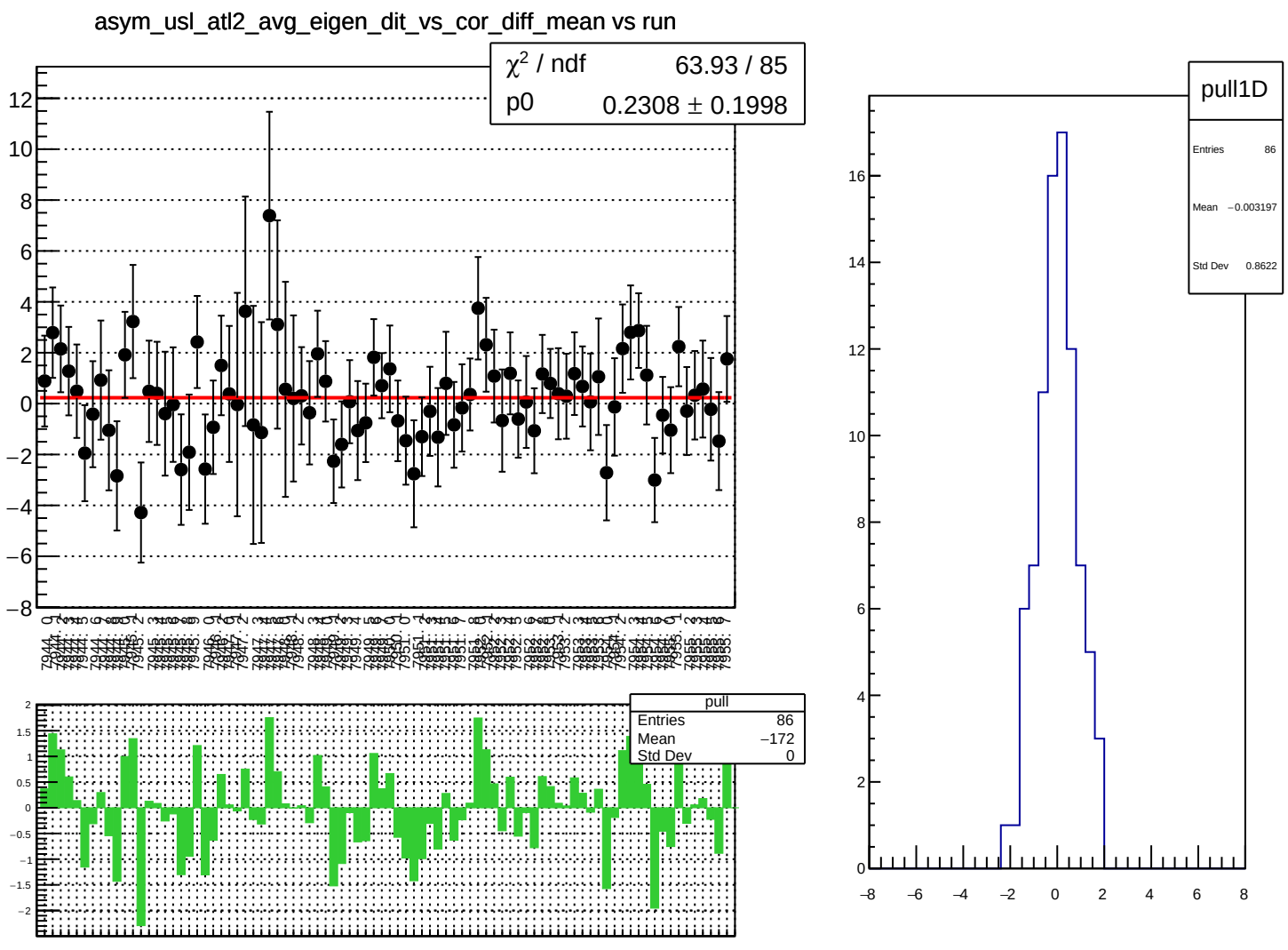

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.93 / 85
p0 0.2308 ± 0.1998
pull
Entries 86
Mean −171.9
Std Dev 0
pull1D
Entries 86
Mean −0.003198
Std Dev 0.8622

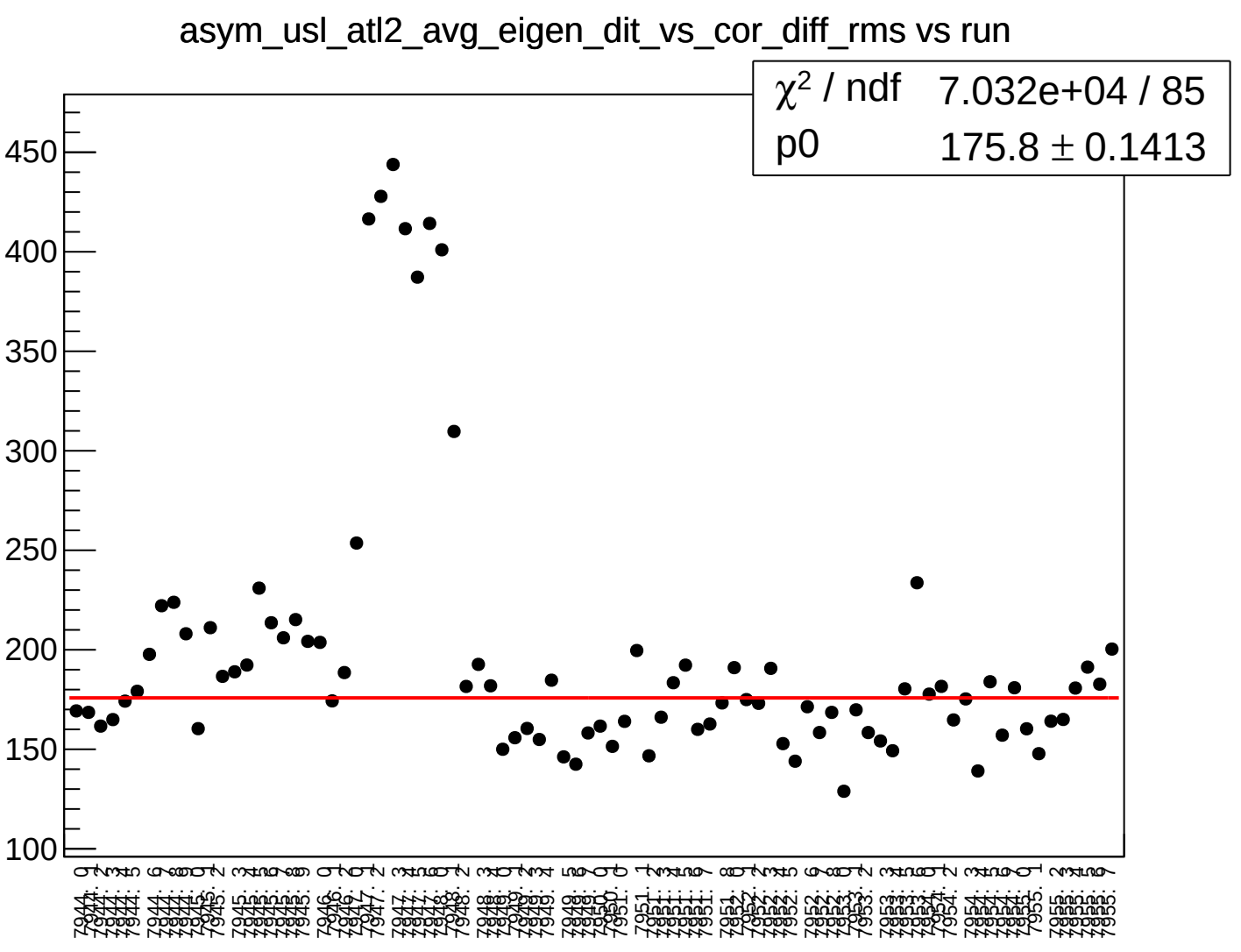

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.032e+04 / 85
p0 175.8 ± 0.1413
450
400
350
300
250
200
150
100

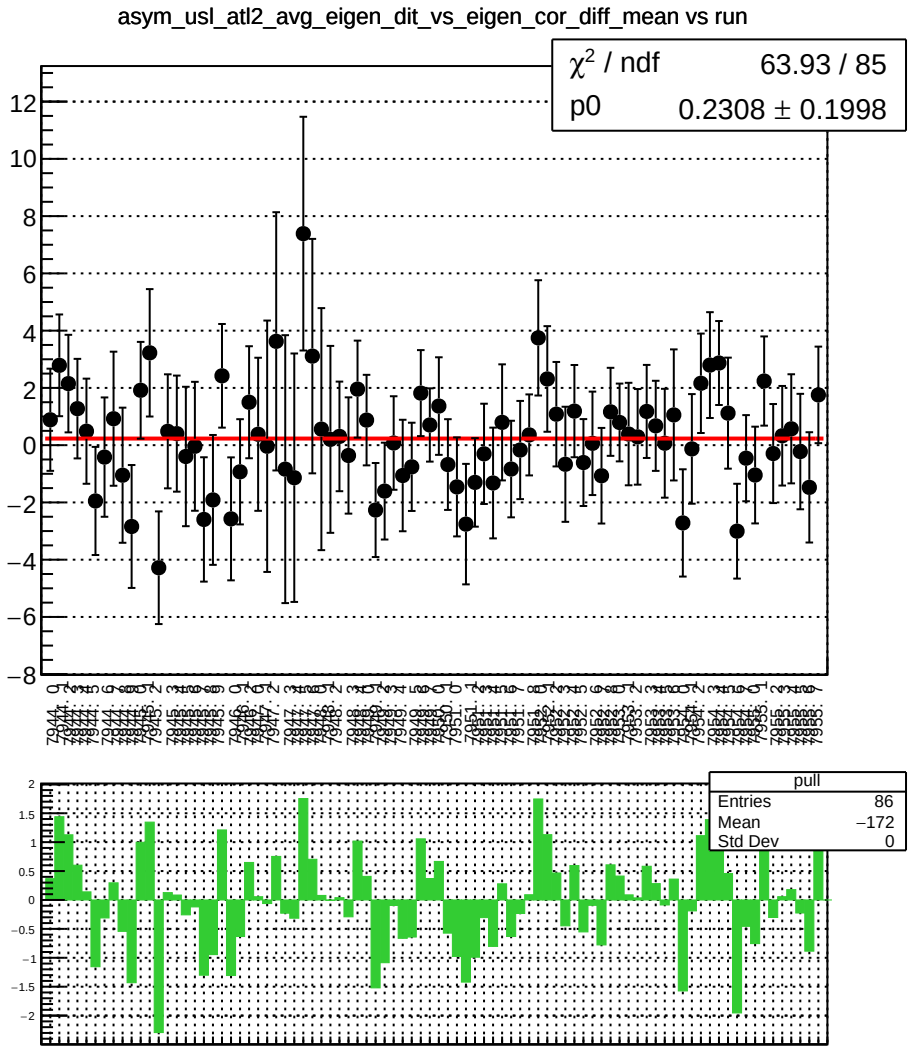

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.86 / 85
p0 1.753e−06 ± 7.6e−06
pull
Entries 86
Mean 246.7
Std Dev 0

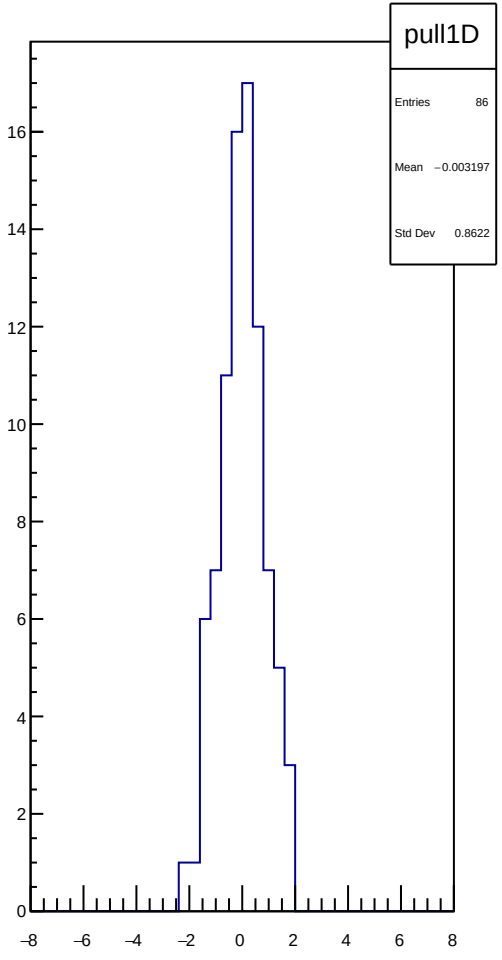

pull1D
Entries 86
Mean 0.01297
Std Dev 1.028

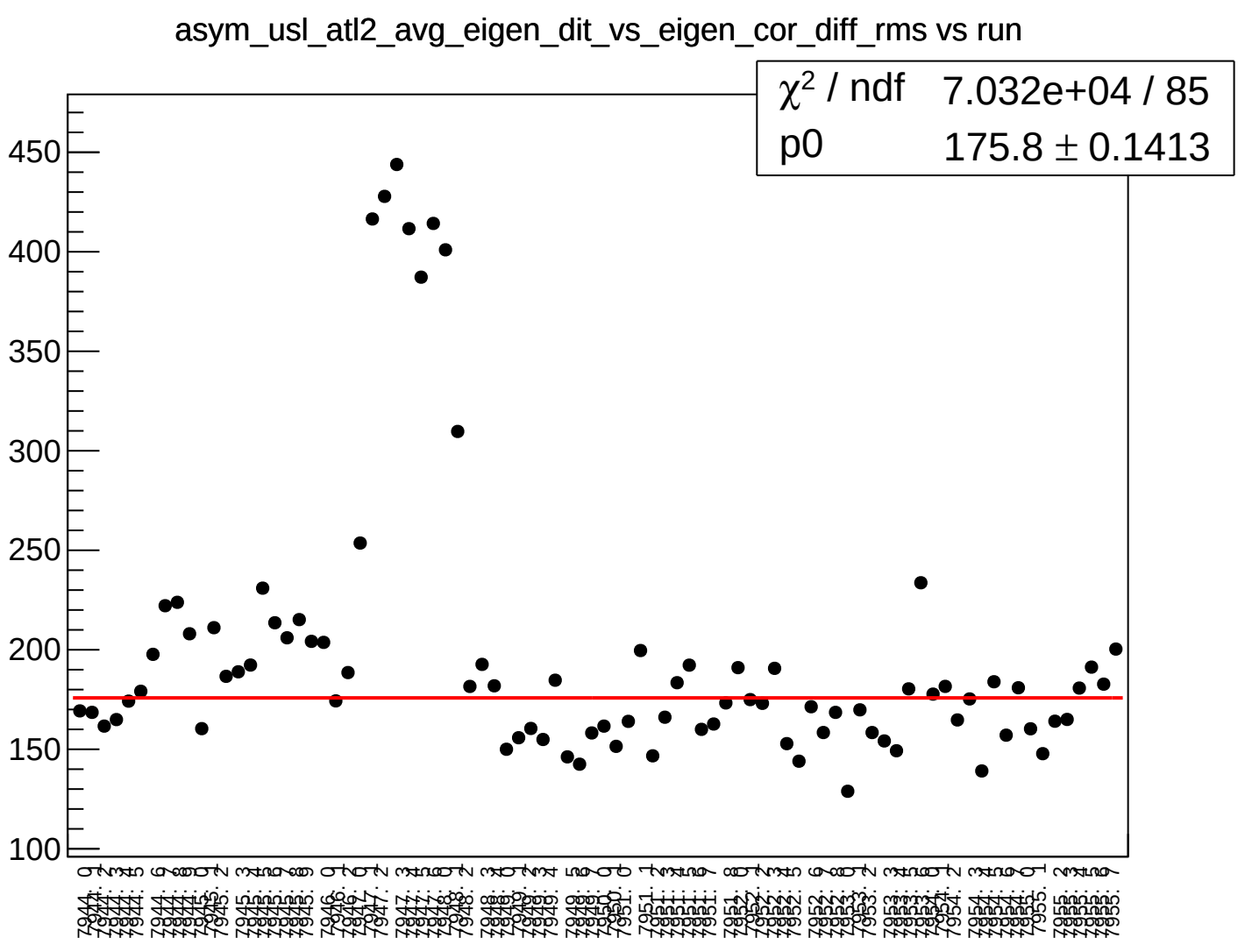

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6191 / 85
p0 0.006825 ± 5.374e−06
0.008
0.0075
0.007
0.0065
0.006

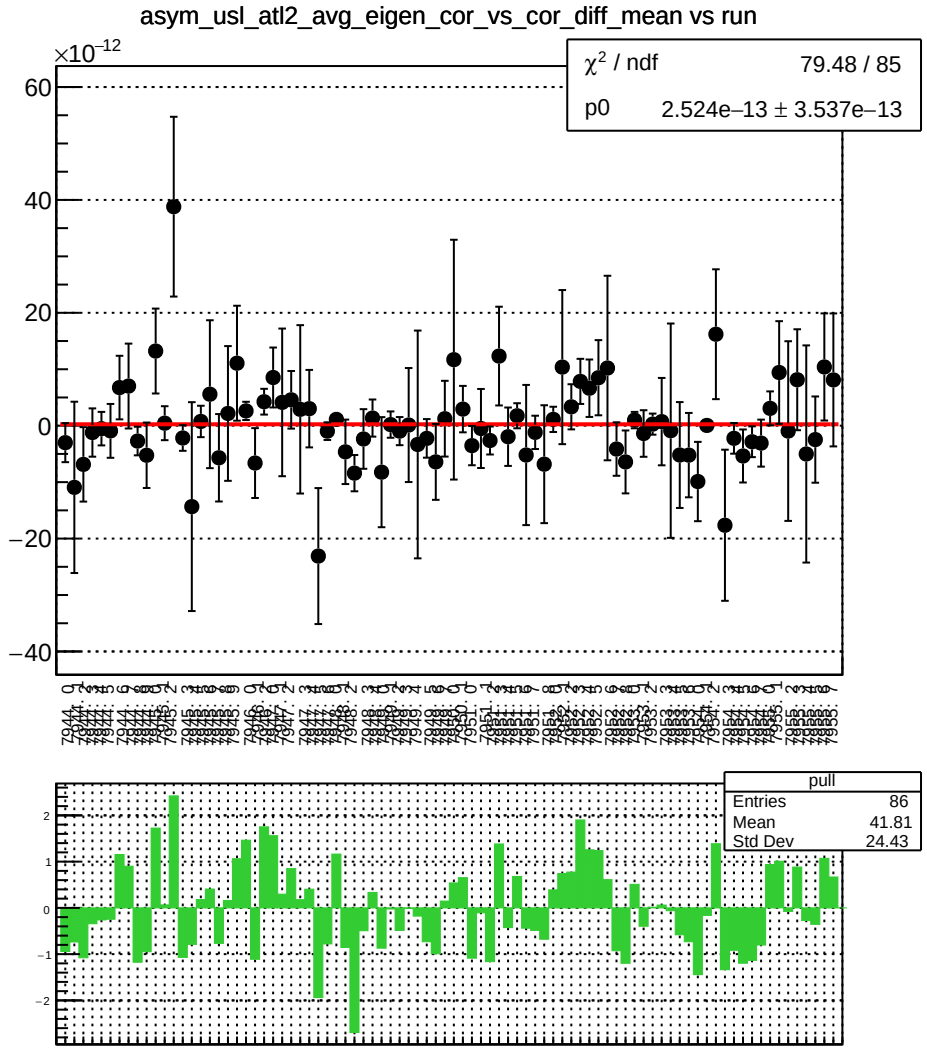

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.93 / 85
p0 0.2308 ± 0.1998
pull
Entries 86
Mean −172
Std Dev 0
pull1D
Entries 86
Mean −0.003197
Std Dev 0.8622

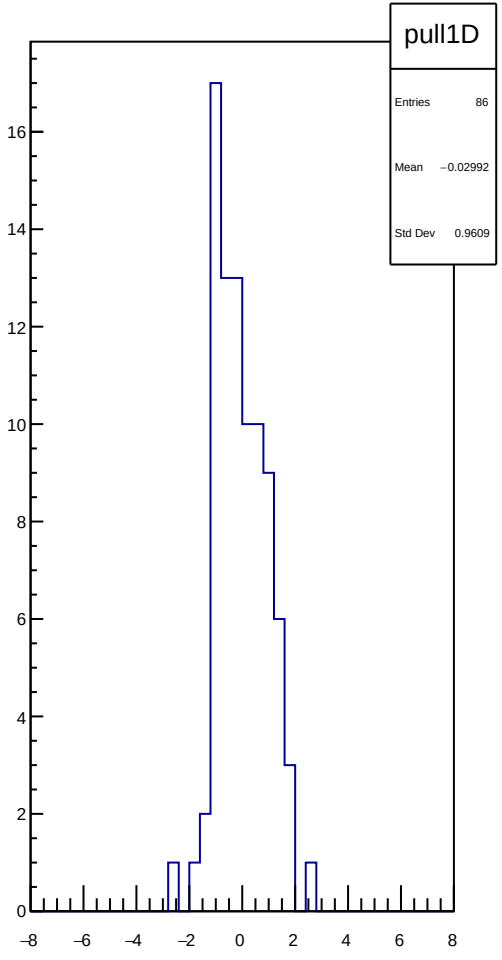

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.032e+04 / 85
p0 175.8 ± 0.1413
450
400
350
300
250
200
150
100

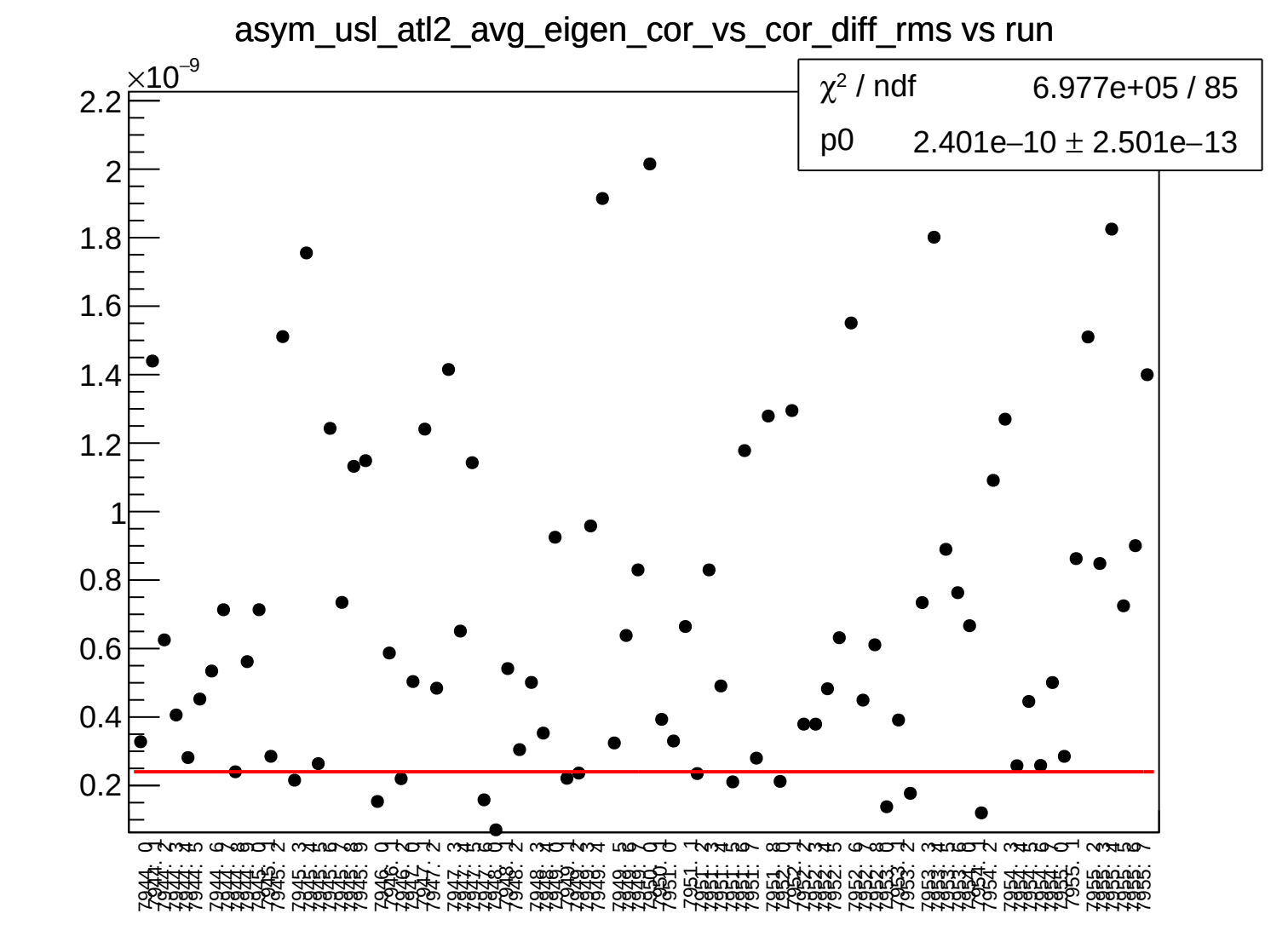

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.93 / 85
p0 0.2308 ± 0.1998
pull
Entries 86
Mean −172
Std Dev 0

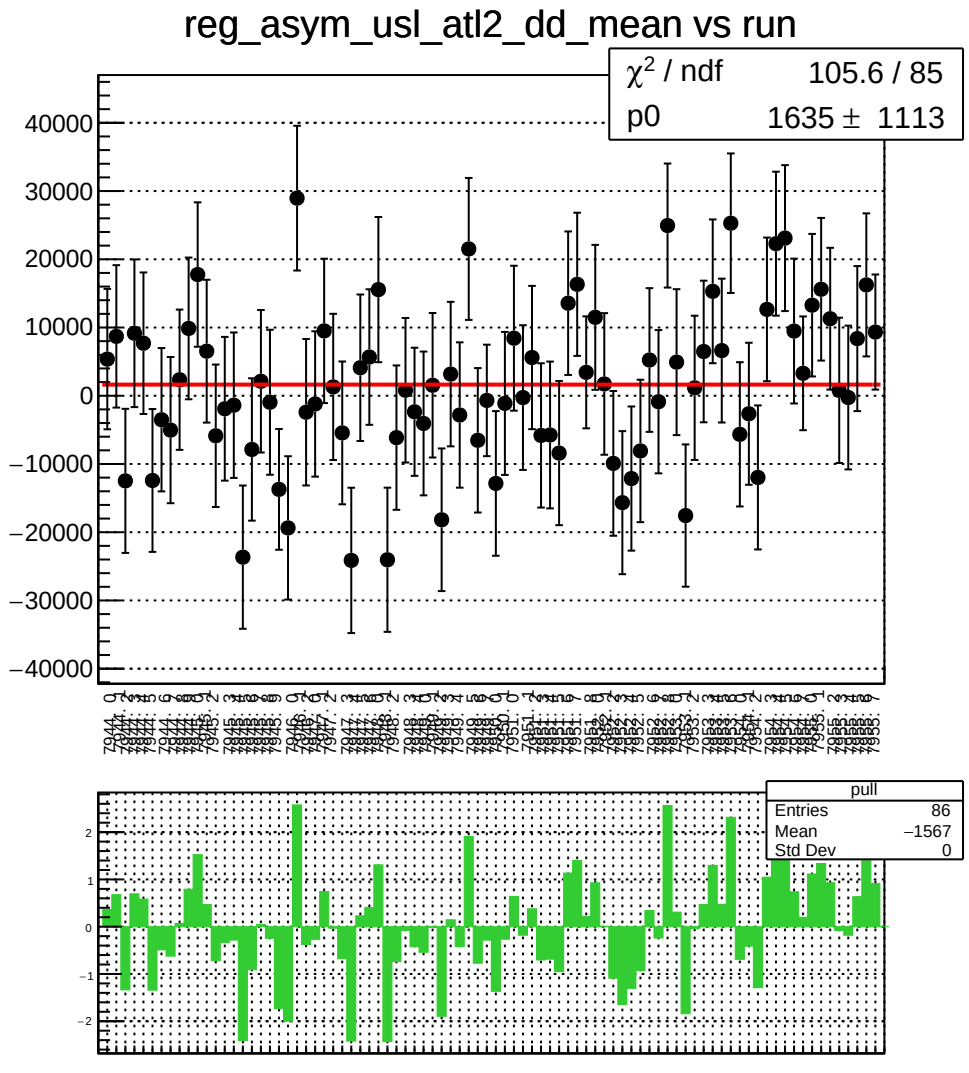

pull1D
Entries 86
Mean −0.003197
Std Dev 0.8622

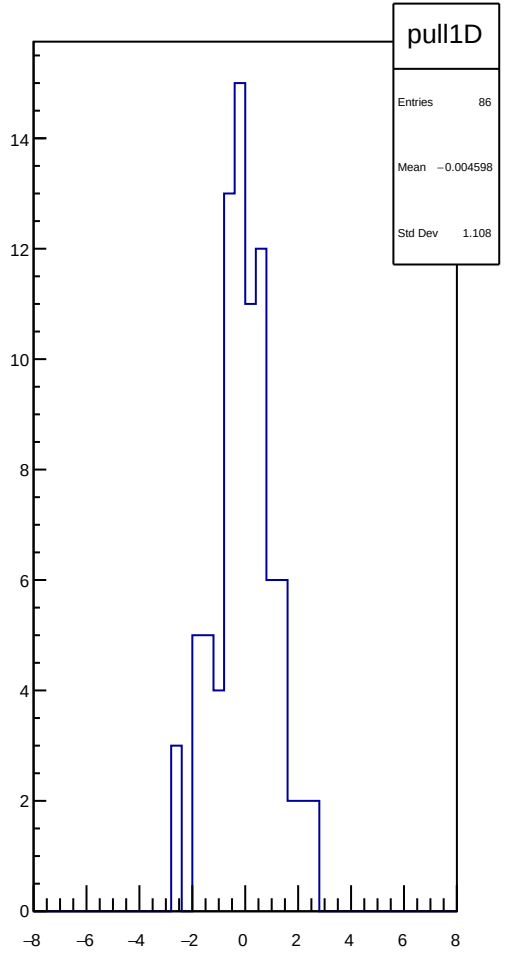

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.032e+04 / 85
p0 175.8 ± 0.1413
450
400
350
300
250
200
150
100

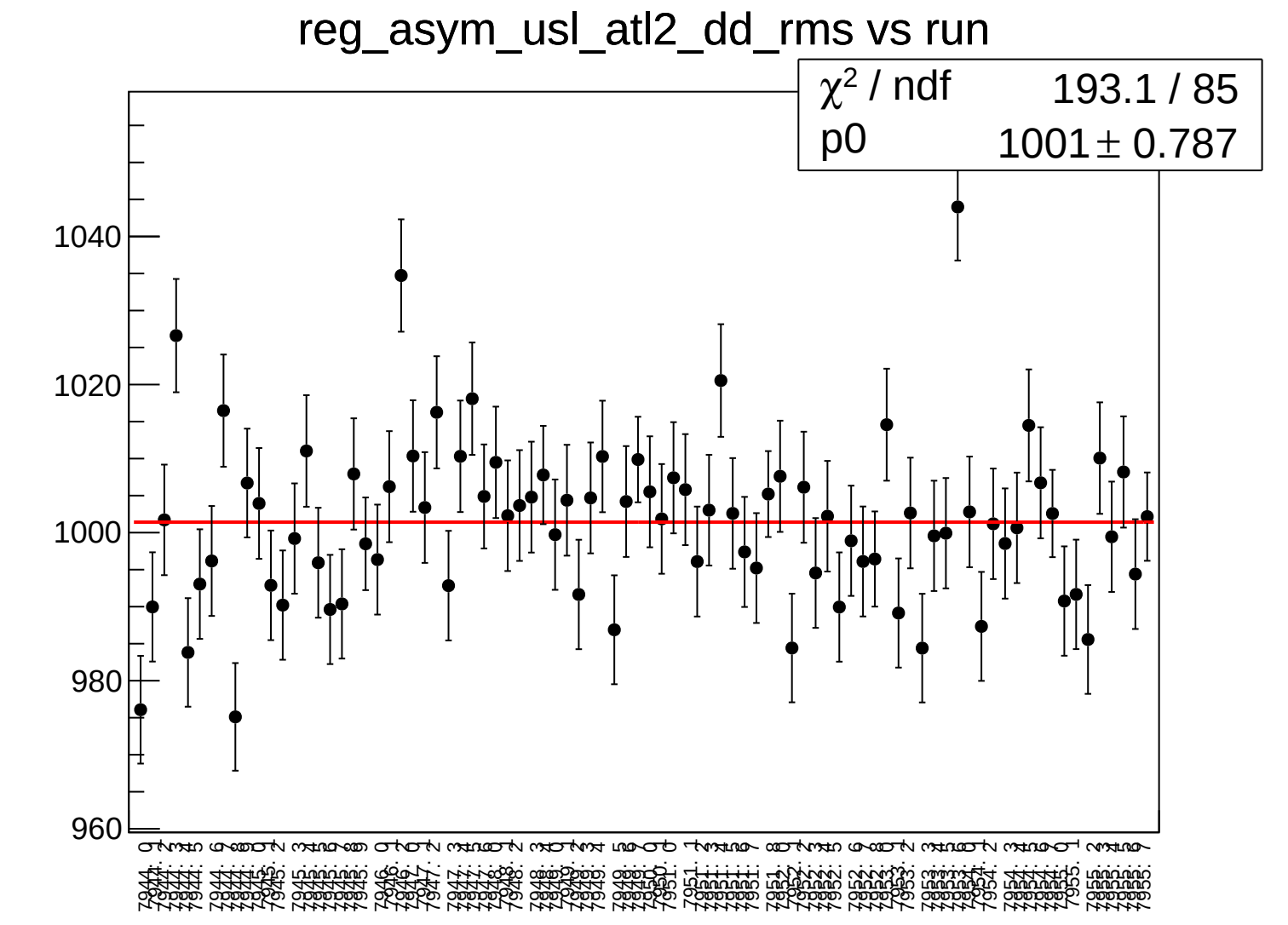

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.48 / 85
p0 2.524e−13 ± 3.537e−13
pull
Entries 86
Mean 41.81
Std Dev 24.43

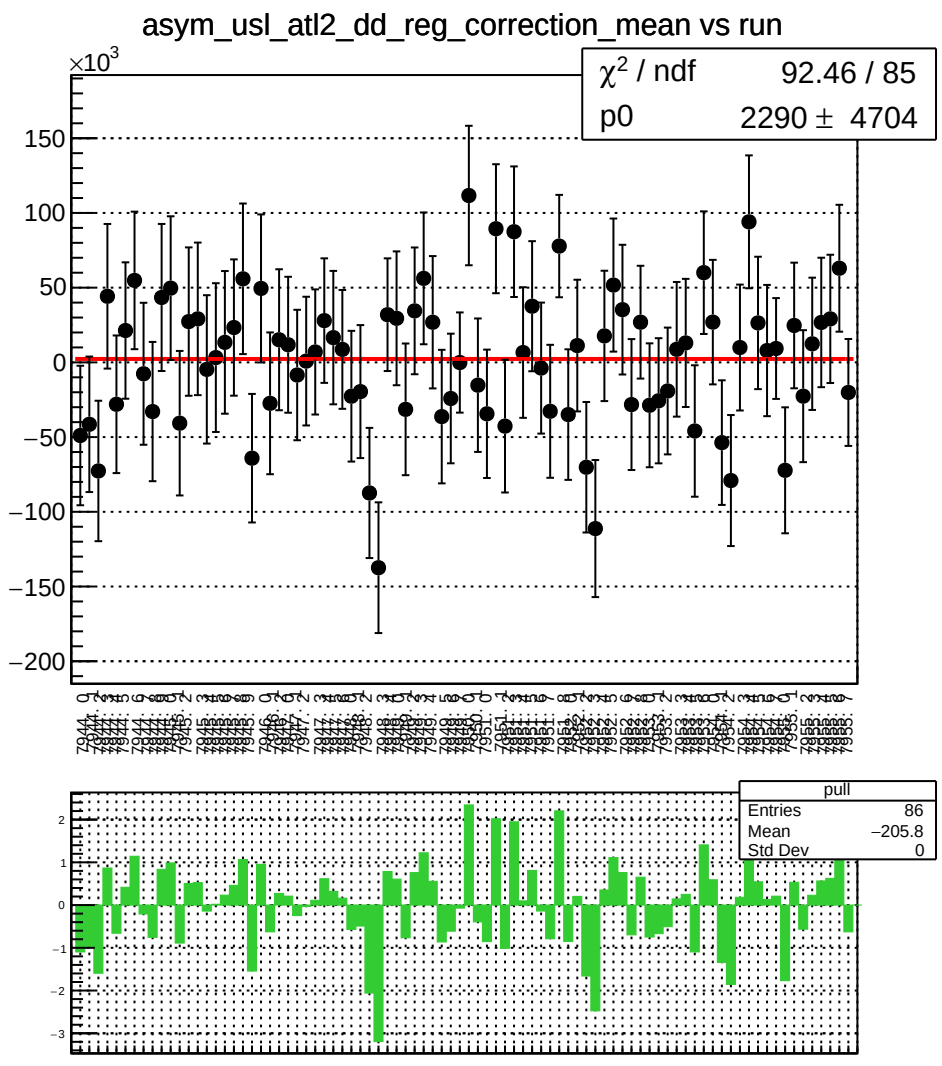

pull1D
Entries 86
Mean −0.02992
Std Dev 0.9609

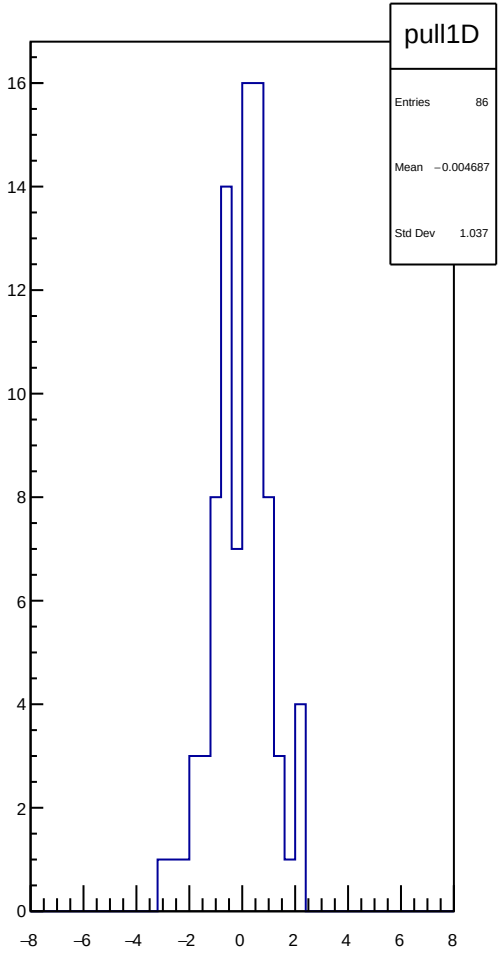

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.977e+05 / 85
p0 2.401e−10 ± 2.501e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

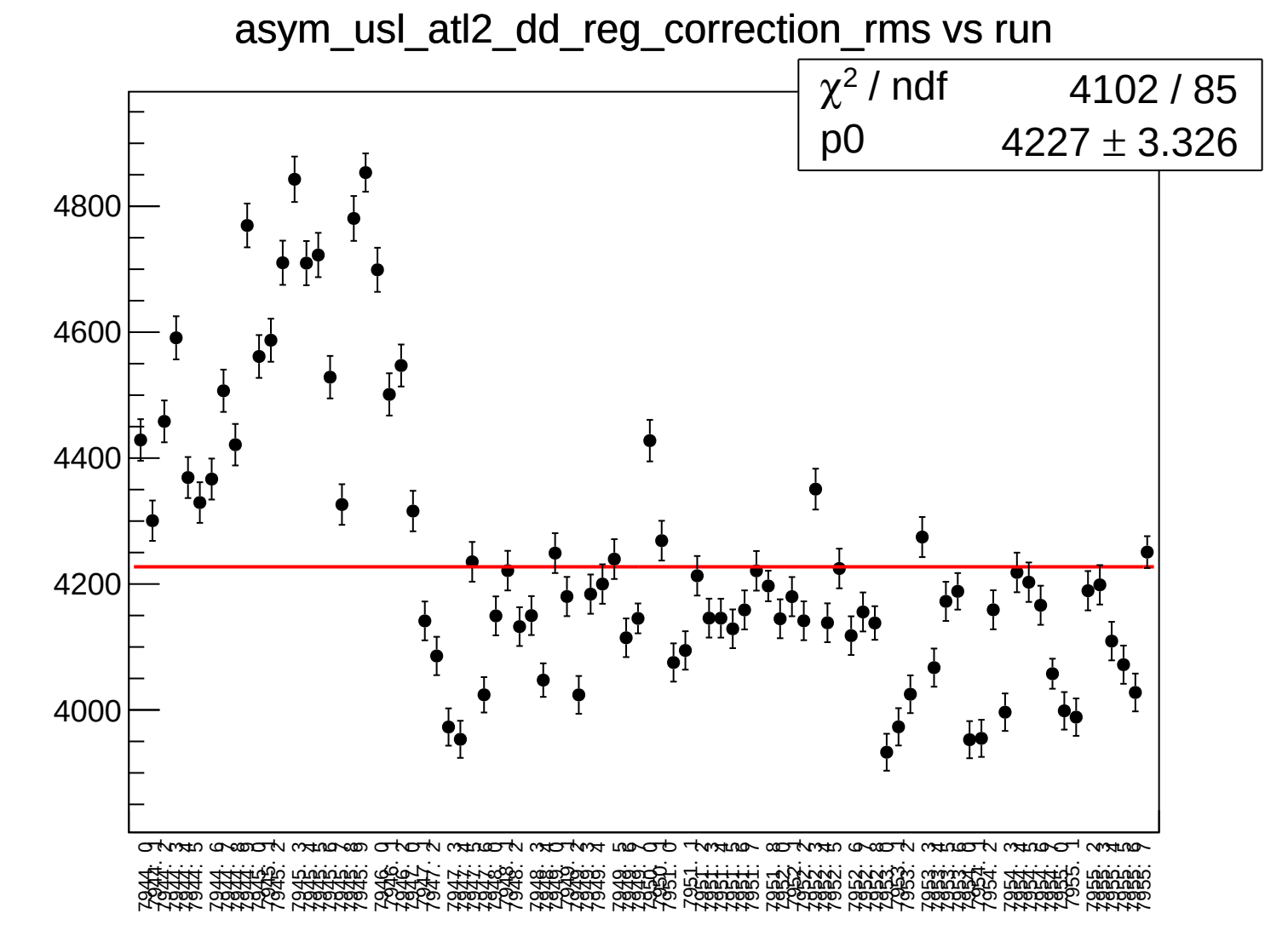

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 105.6 / 85
p0 1635 ± 1113
pull
Entries 86
Mean −1567
Std Dev 0

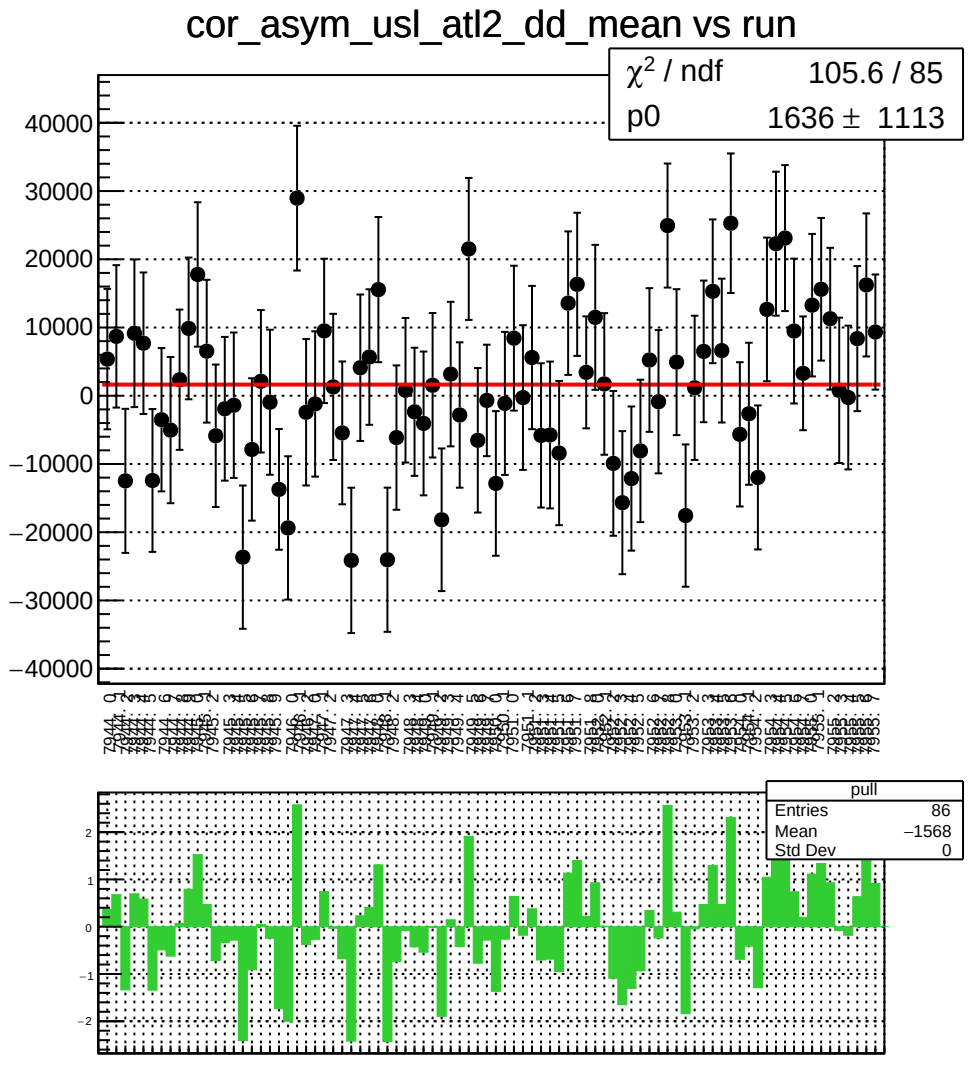

pull1D
Entries 86
Mean −0.004598
Std Dev 1.108

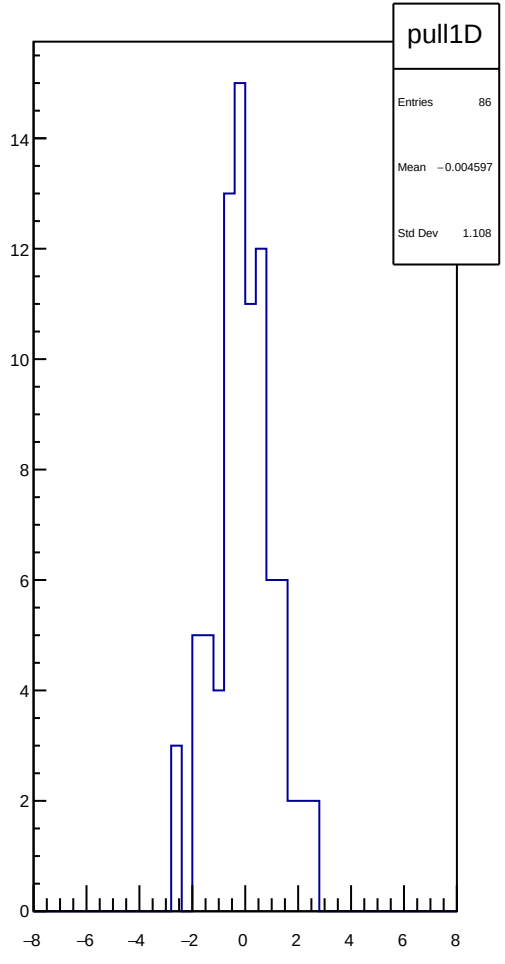

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 193.1 / 85
p0 1001 ± 0.787
1040
1020
1000
980
960

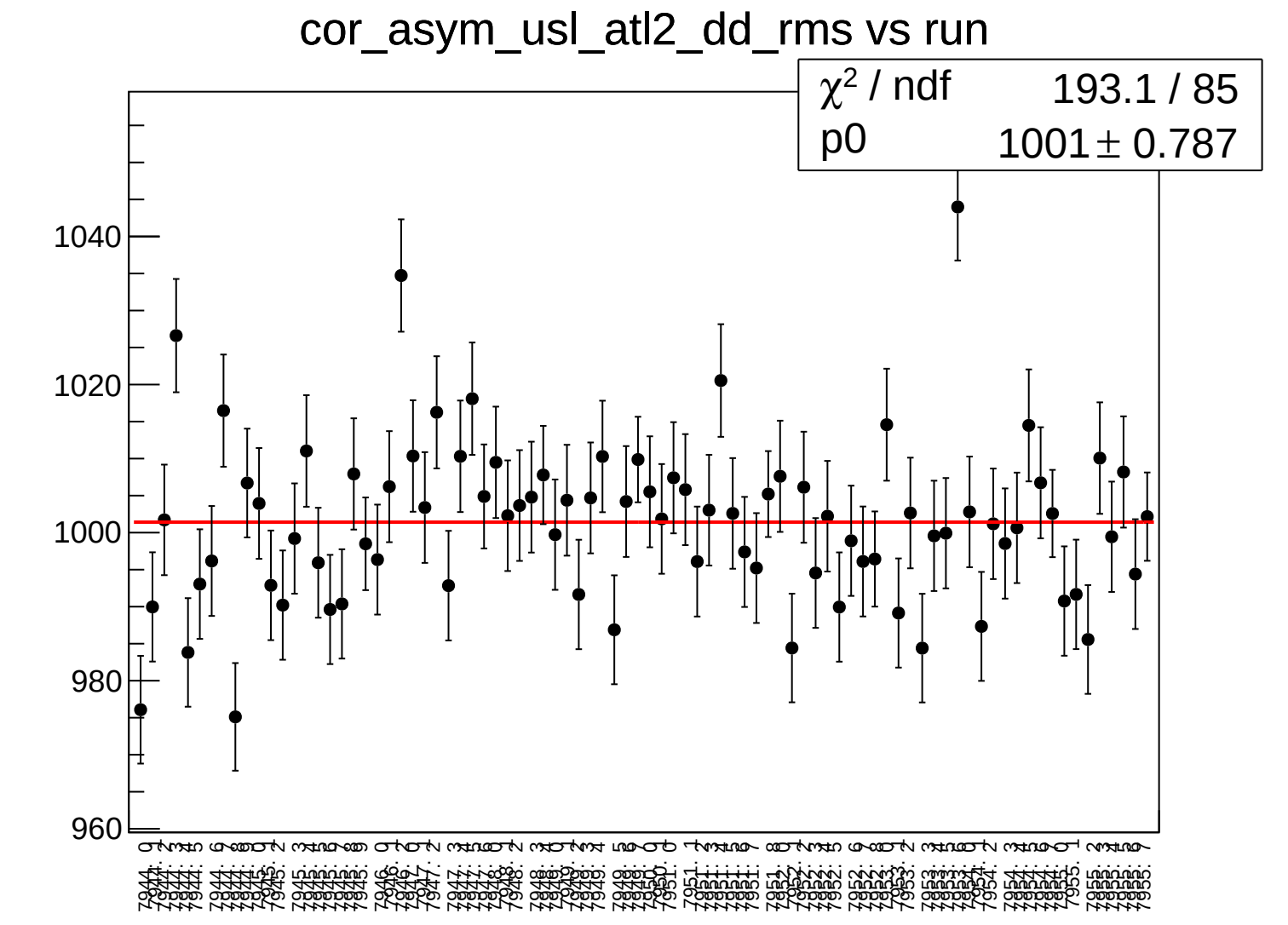

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92.46 / 85
p0 2290 ± 4704
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −205.8
Std Dev 0
2
1
0
−1
−2
−3

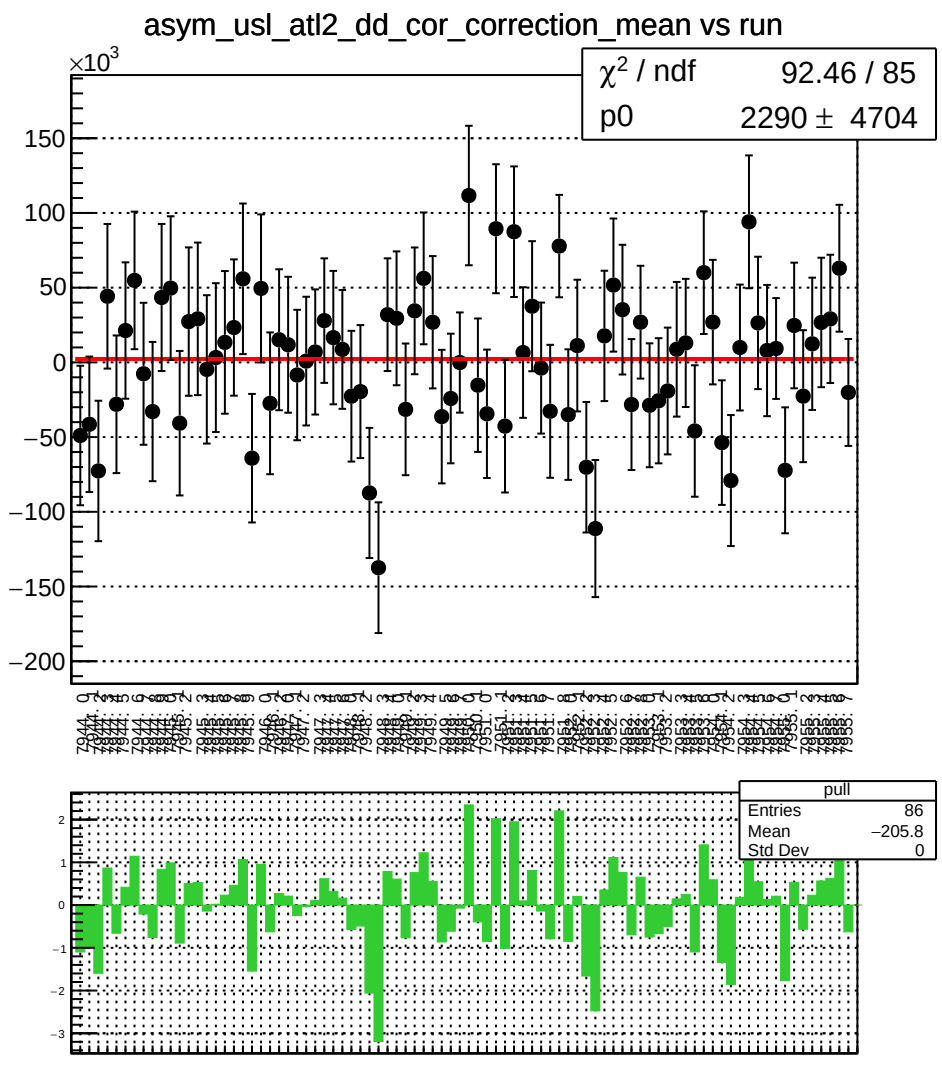

pull1D
Entries 86
Mean −0.004687
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

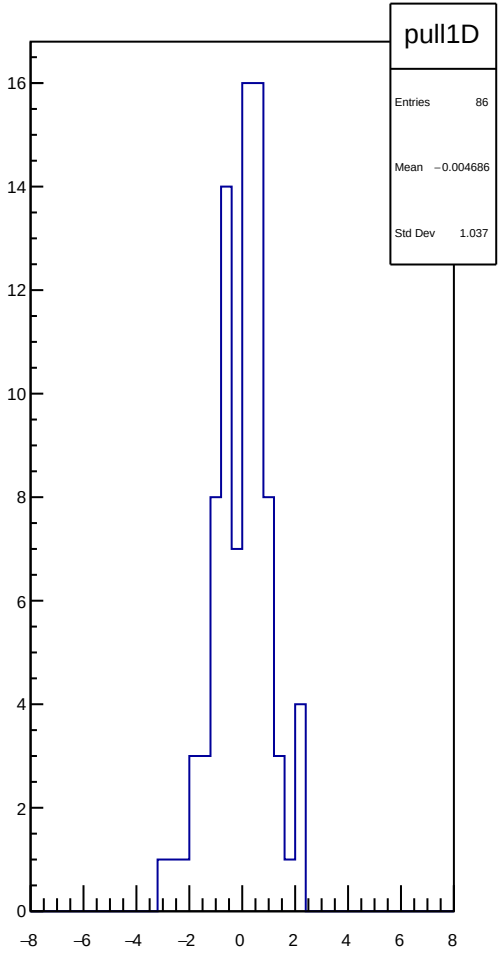

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 4102 / 85
p0 4227 ± 3.326
4800
4600
4400
4200
4000

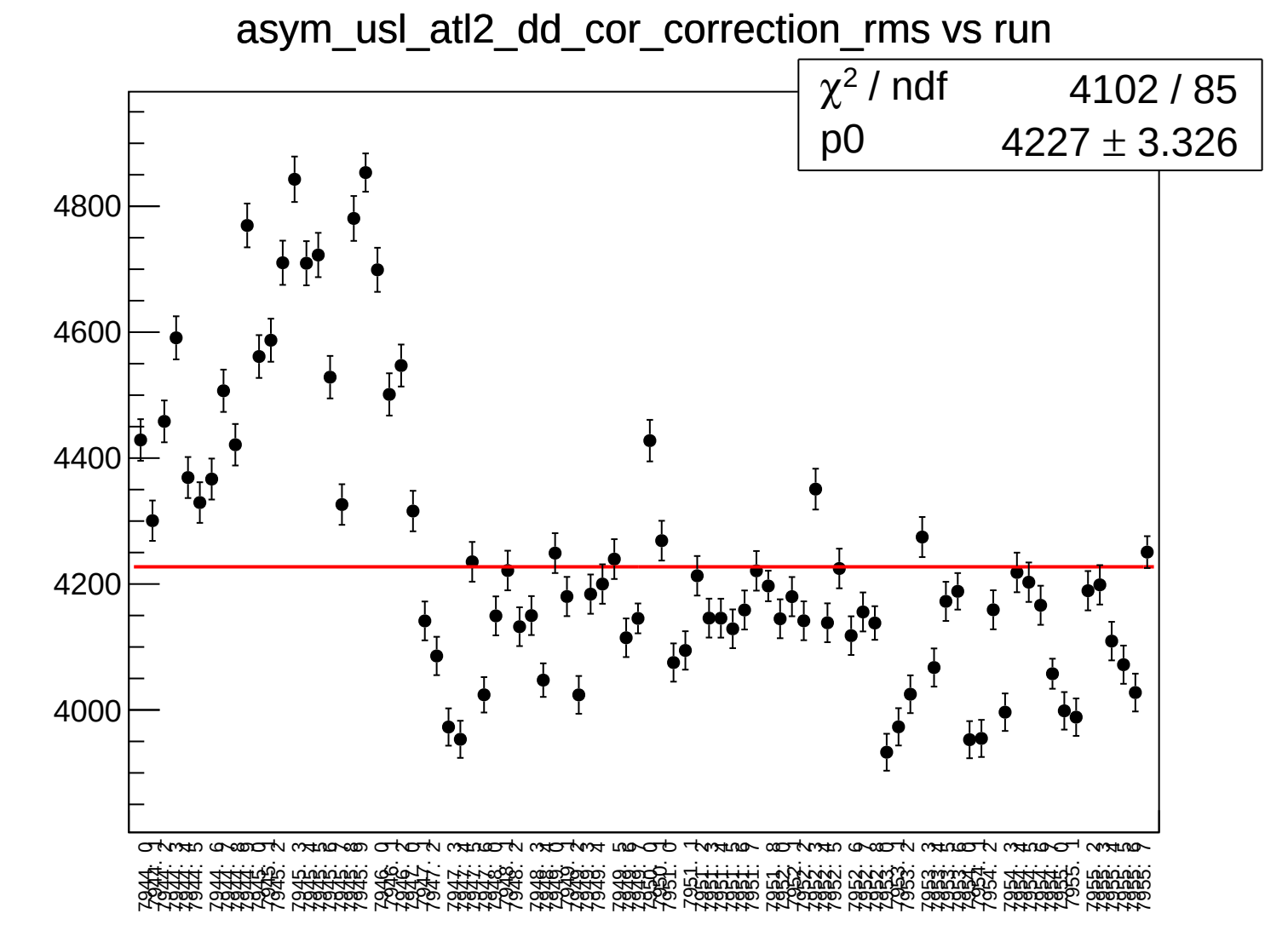

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 105.6 / 85
p0 1636 ± 1113
pull
Entries 86
Mean −1568
Std Dev 0

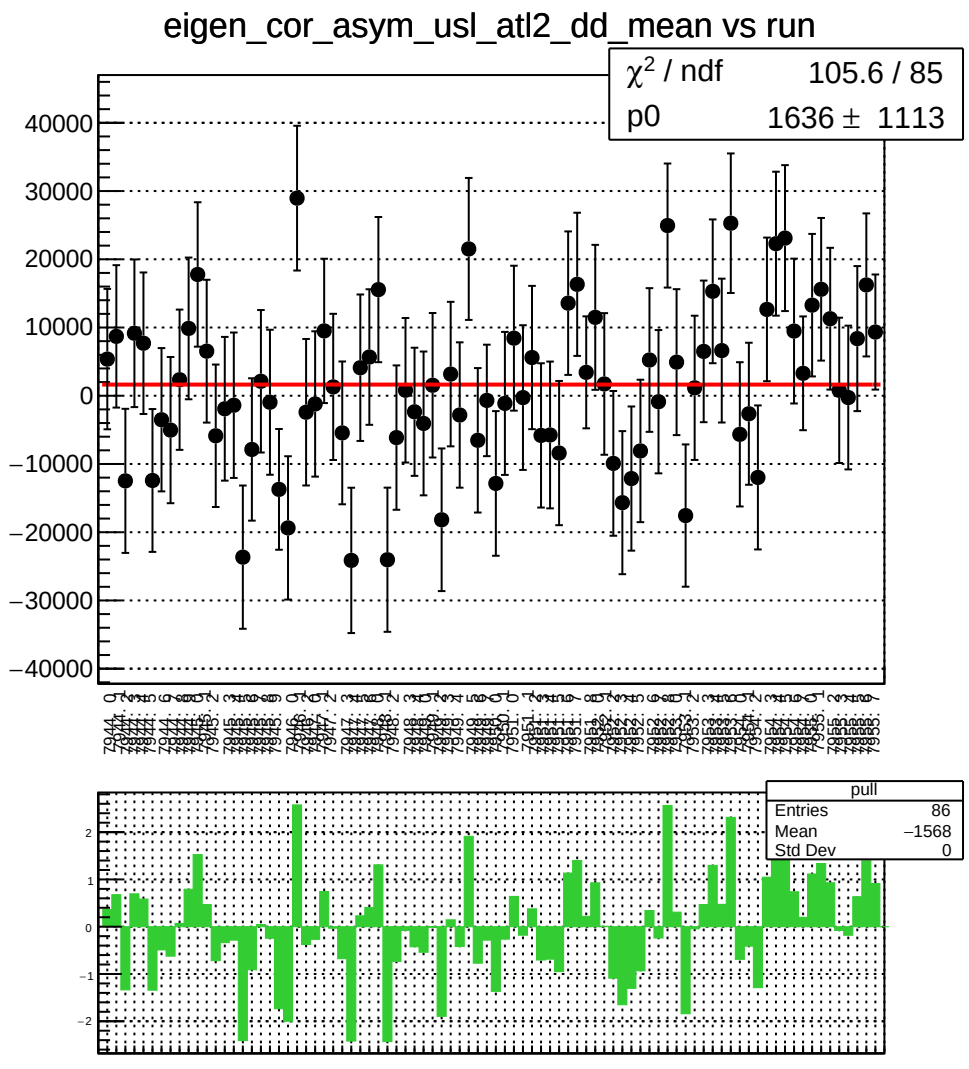

pull1D
Entries 86
Mean −0.004597
Std Dev 1.108

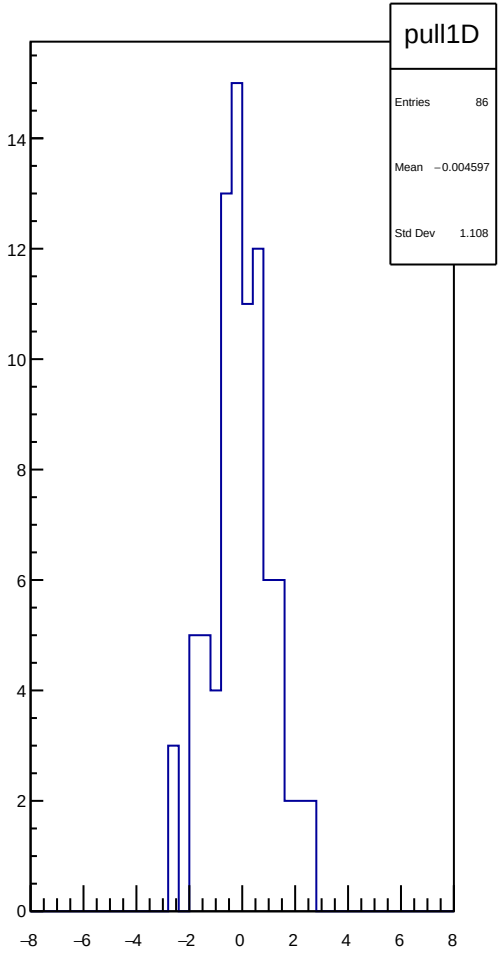

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 193.1 / 85
p0 1001 ± 0.787
1040
1020
1000
980
960

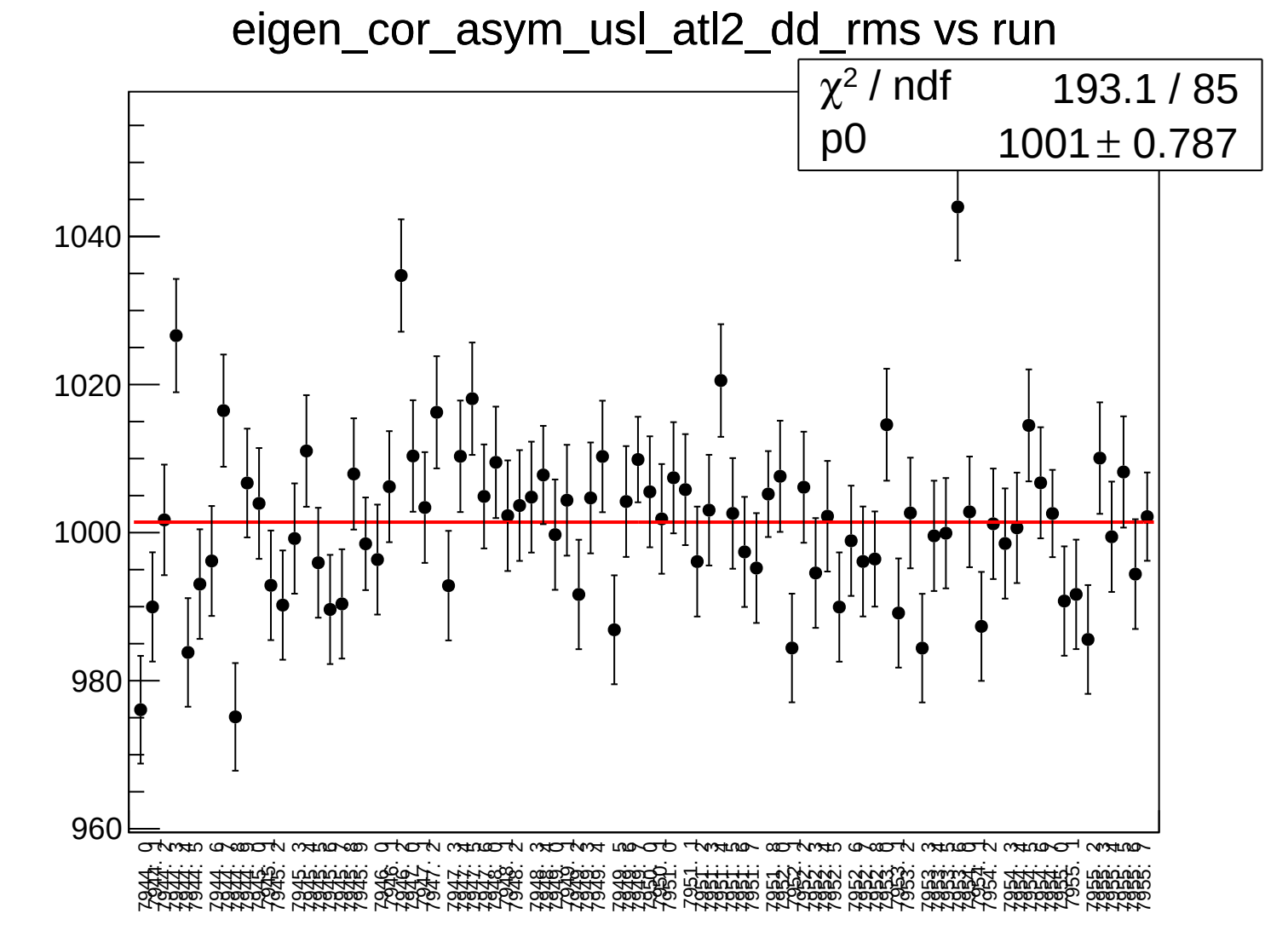

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.46 / 85
p0 2290 ± 4704
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −205.8
Std Dev 0
2
1
0
−1
−2
−3

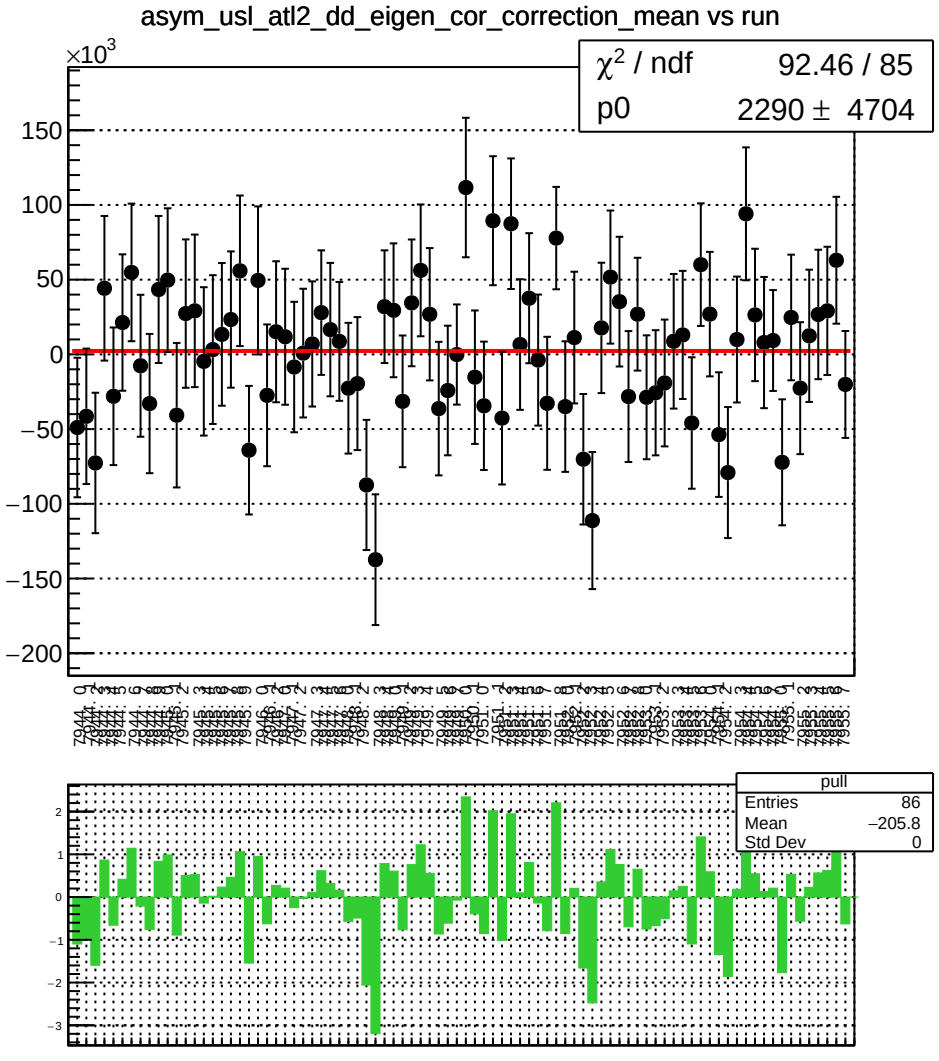

pull1D
Entries 86
Mean −0.004686
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

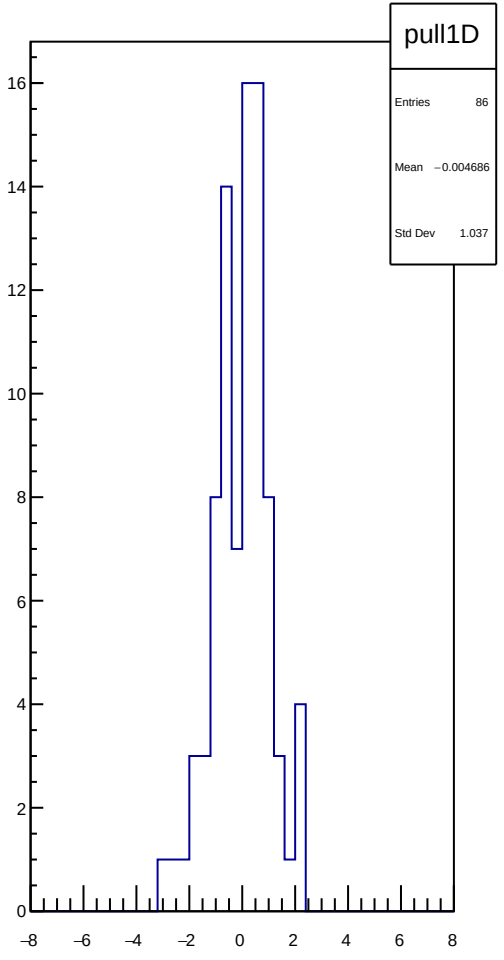

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 4102 / 85
p0 4227 ± 3.326
4800
4600
4400
4200
4000

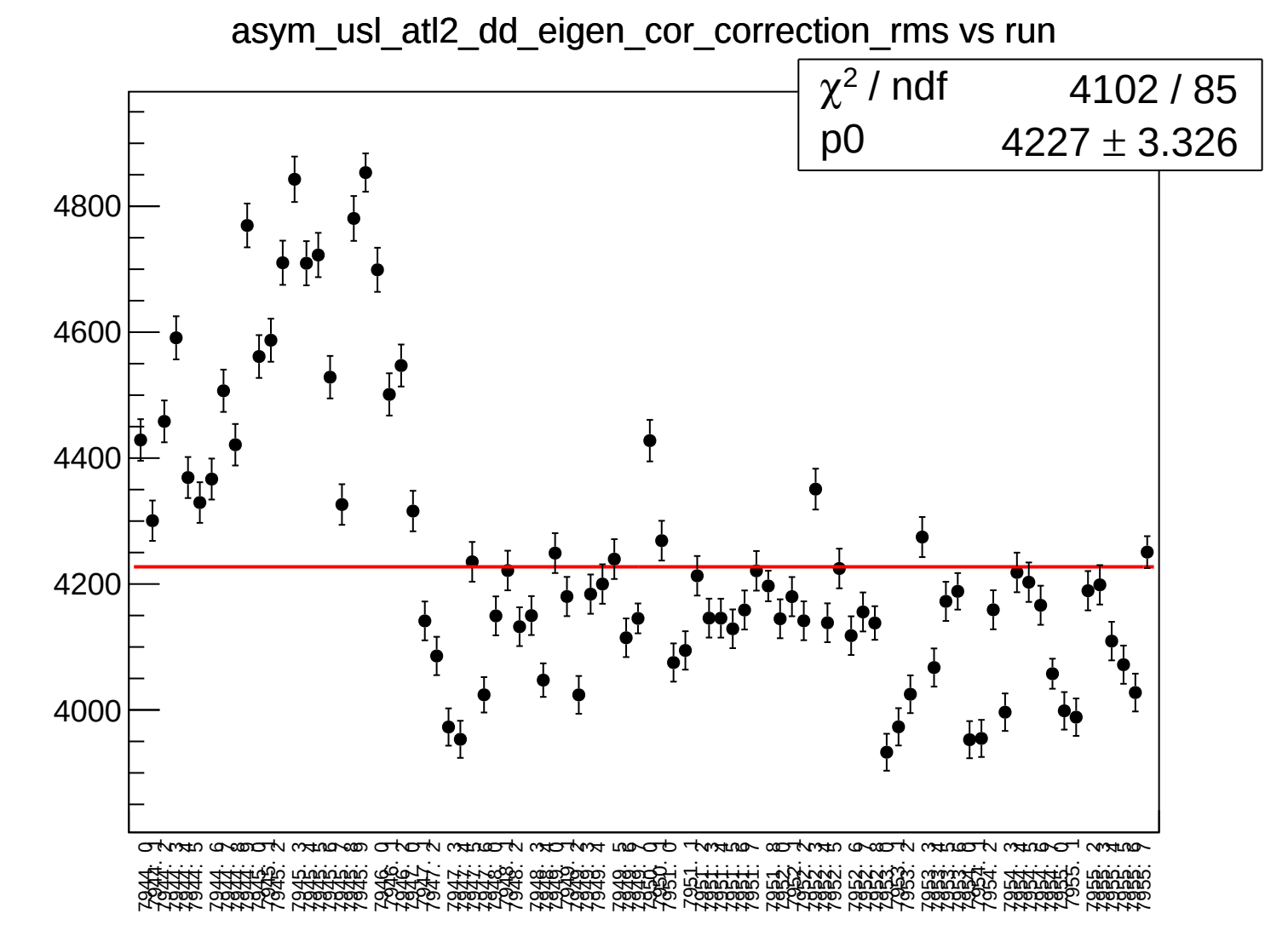

eigen_cor_asym_usl_atl2_dd_mean vs run
χ^2 / ndf 105.6 / 85
p0 1636 ± 1113
pull
Entries 86
Mean −1568
Std Dev 0

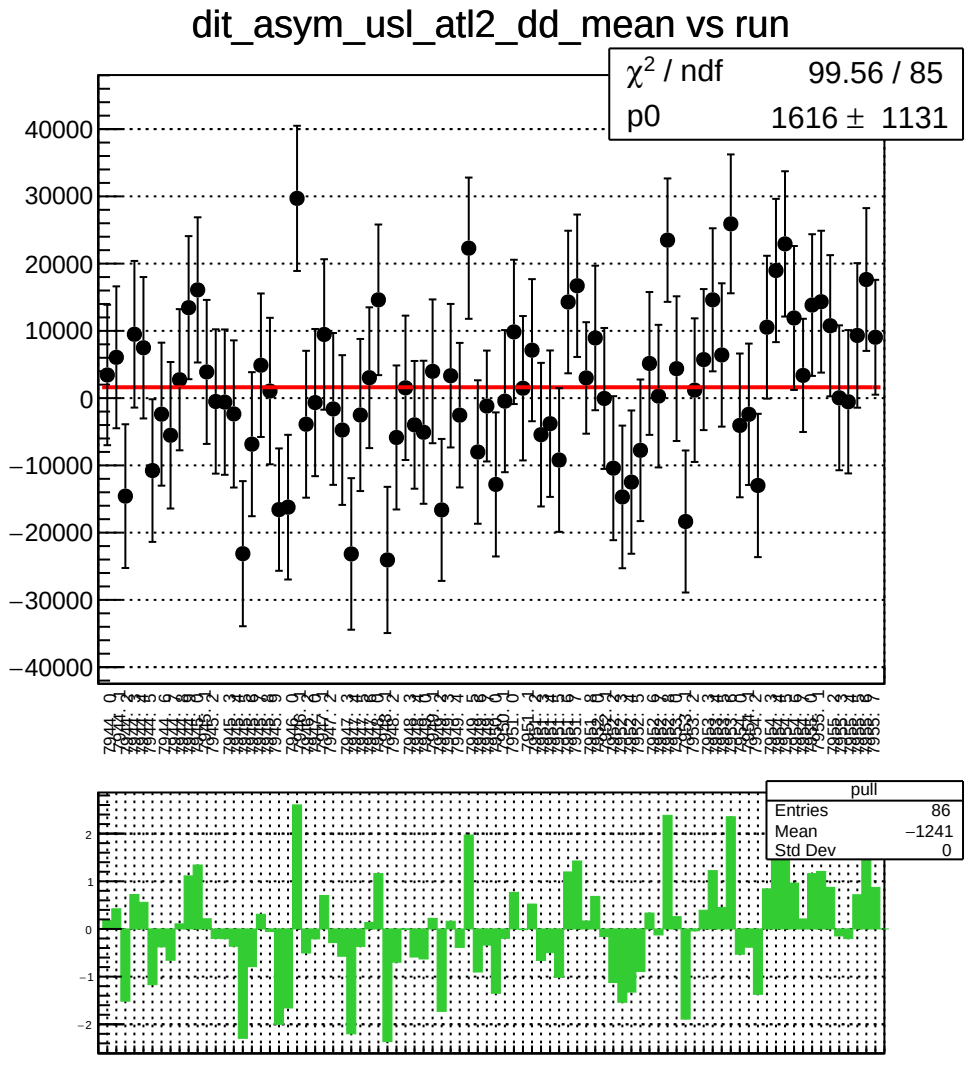

pull1D
Entries 86
Mean −0.004597
Std Dev 1.108

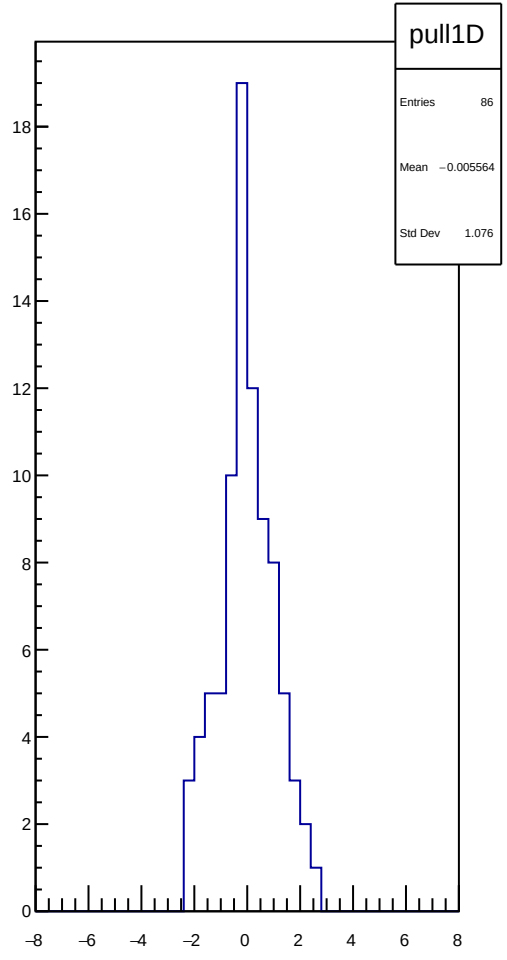

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 193.1 / 85
p0 1001 ± 0.787
1040
1020
1000
980
960

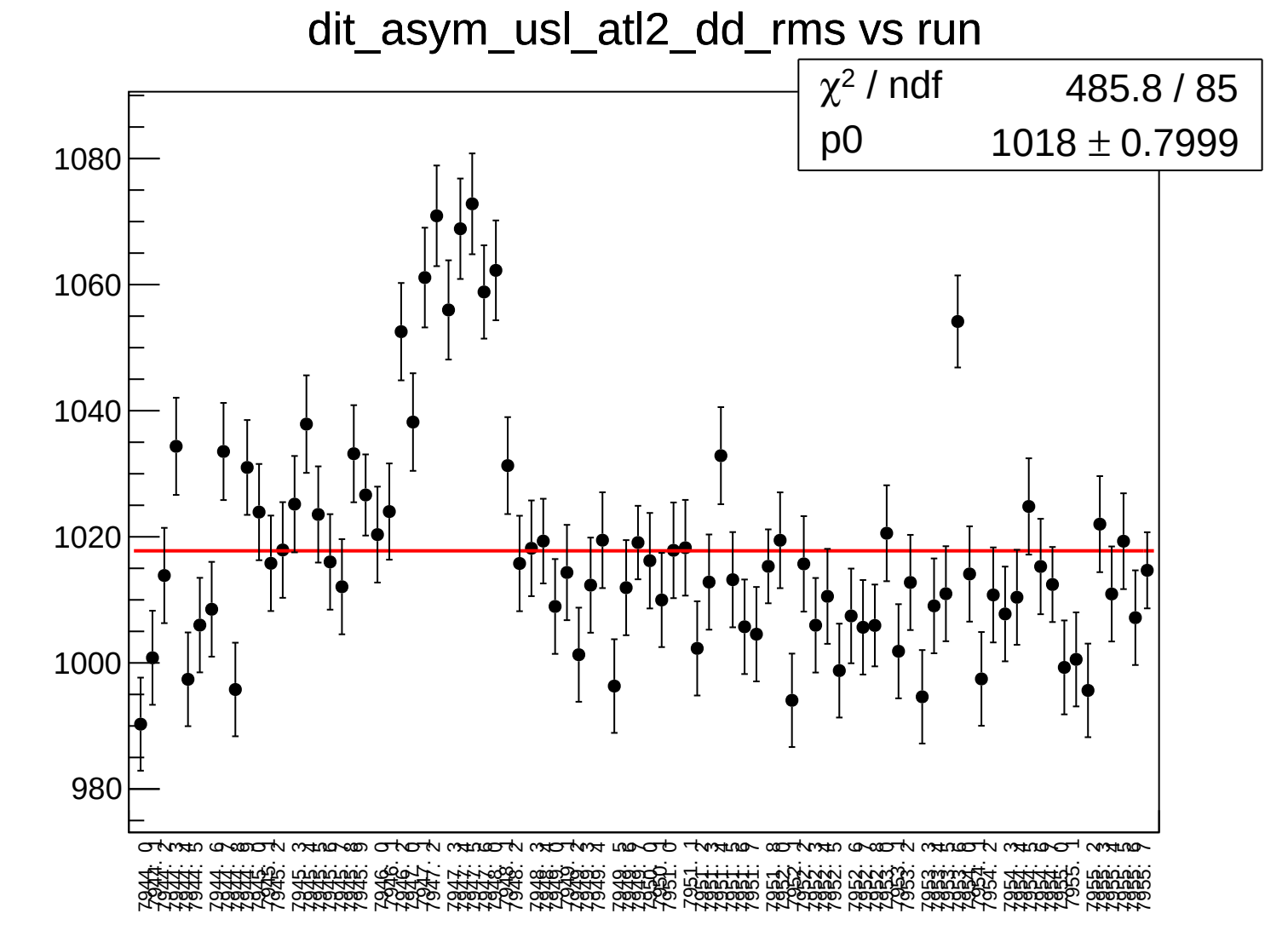

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.46 / 85
p0 2290 ± 4704
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −205.8
Std Dev 0
2
1
0
−1
−2
−3

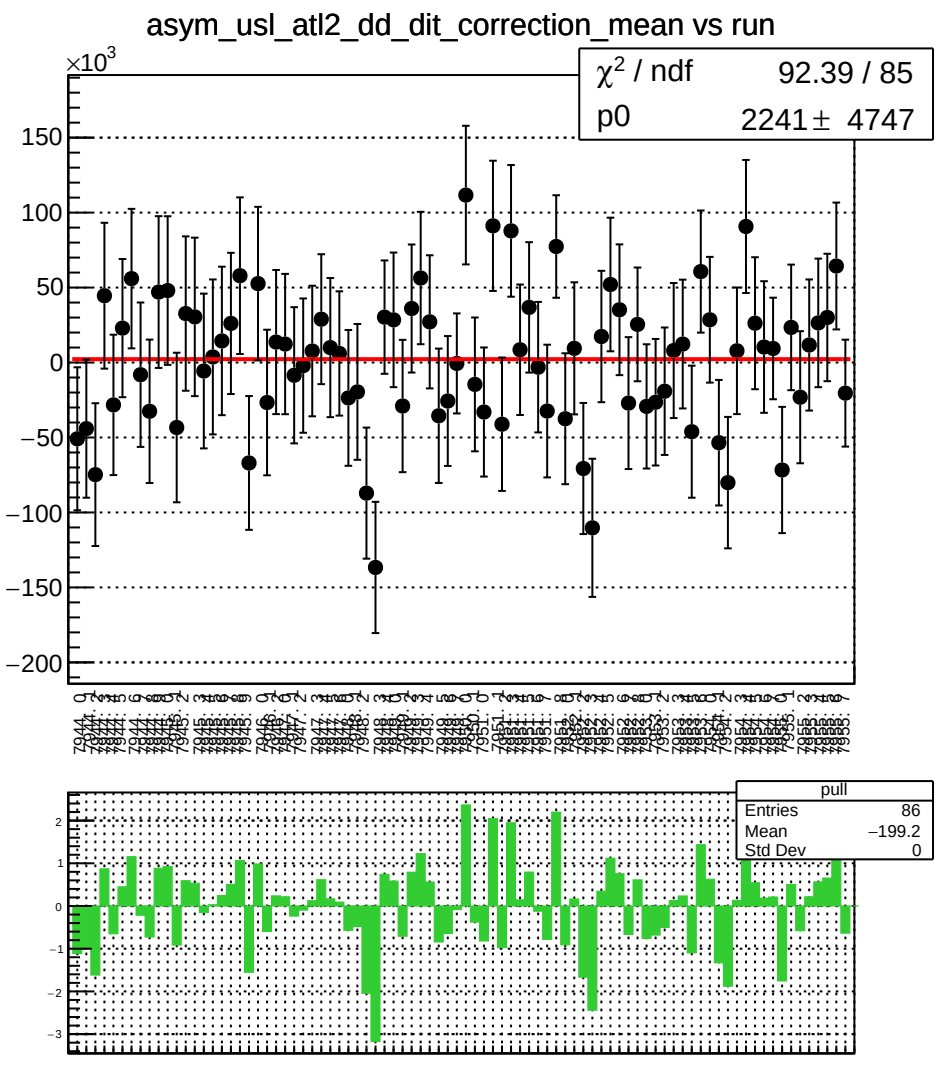

pull1D
Entries 86
Mean −0.004686
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

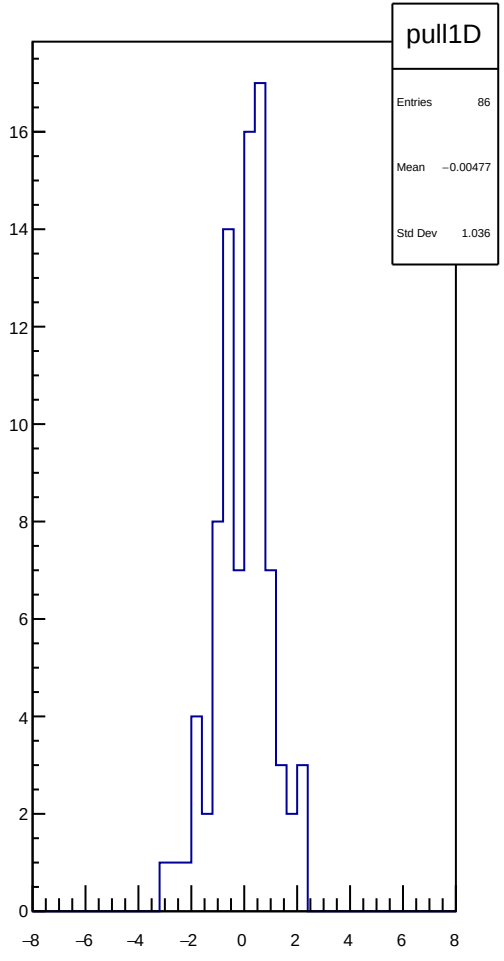

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4102 / 85
p0 4227 ± 3.326
4800
4600
4400
4200
4000

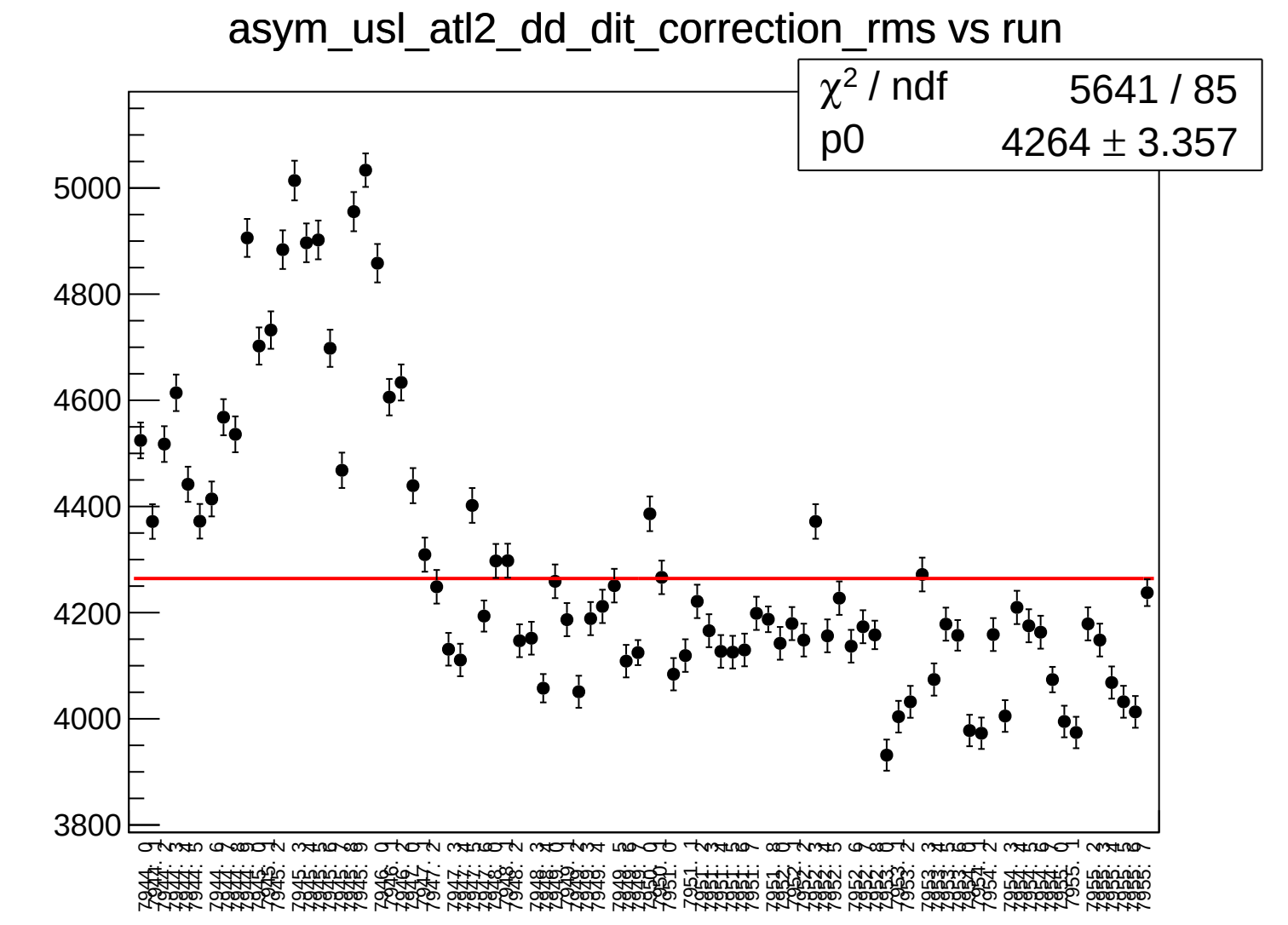

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 99.56 / 85
p0 1616 ± 1131
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −1241
Std Dev 0
2
1
0
−1
−2

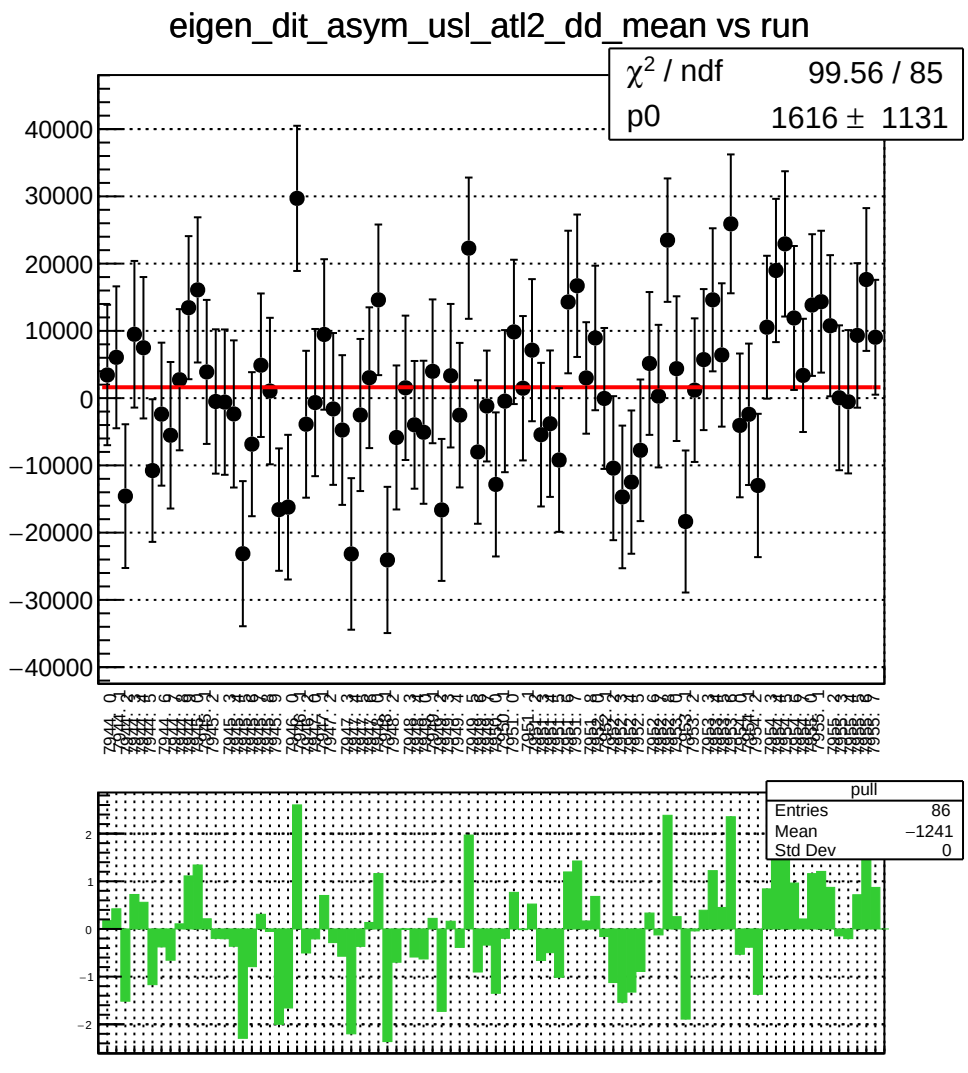

pull1D
Entries 86
Mean −0.005564
Std Dev 1.076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

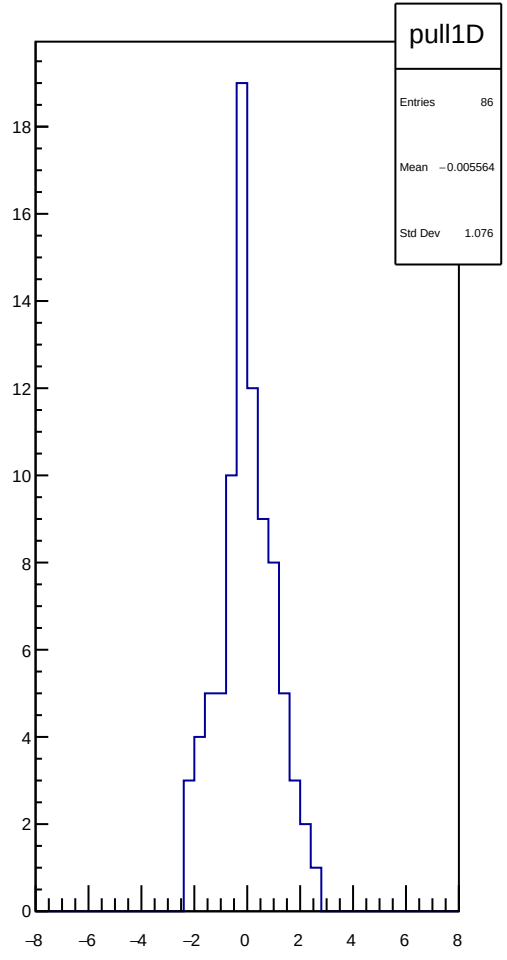

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 485.8 / 85
p0 1018 ± 0.7999
1080
1060
1040
1020
1000
980

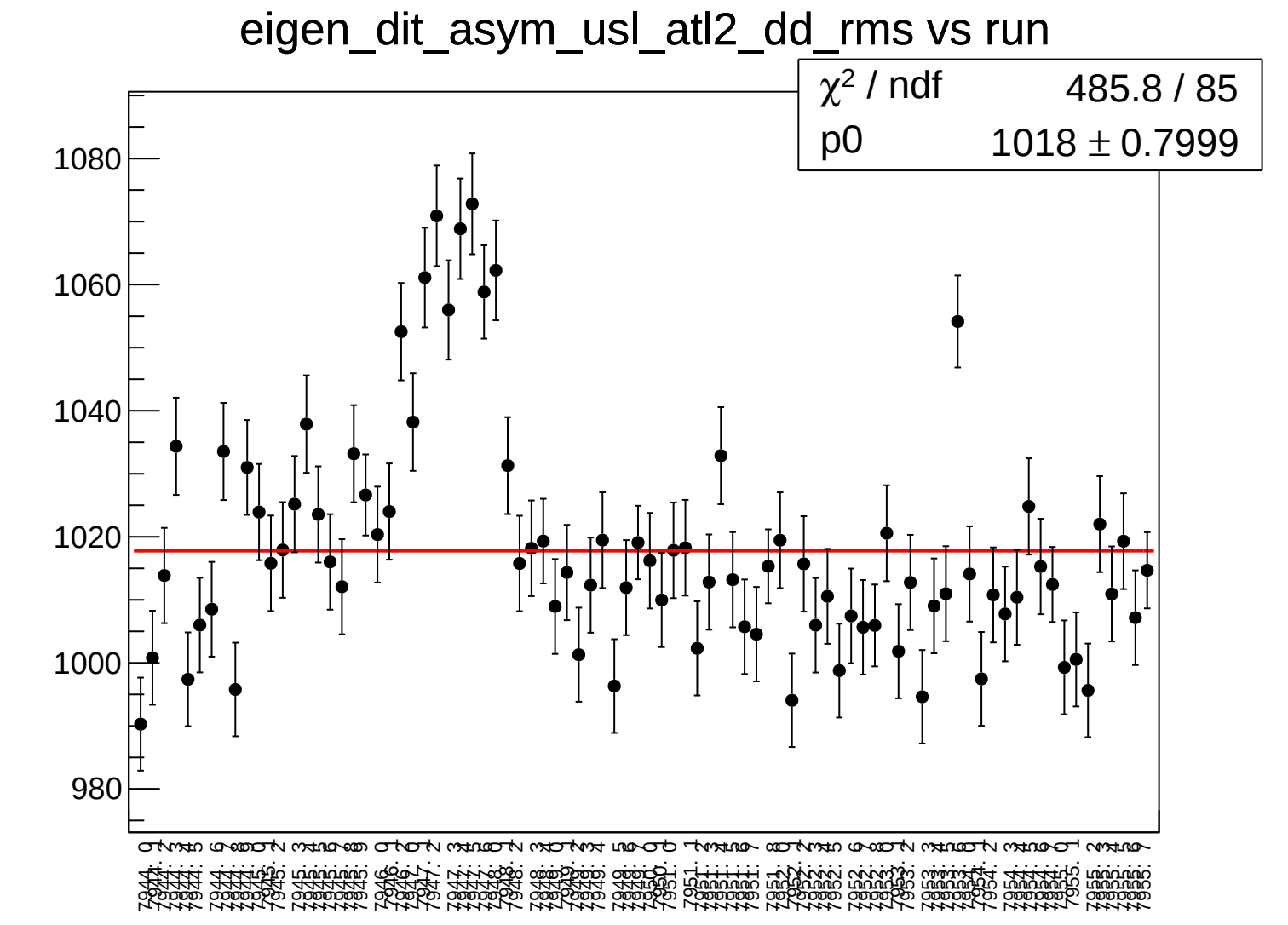

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 92.39 / 85
p0 2241 ± 4747
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −199.2
Std Dev 0
2
1
0
−1
−2
−3

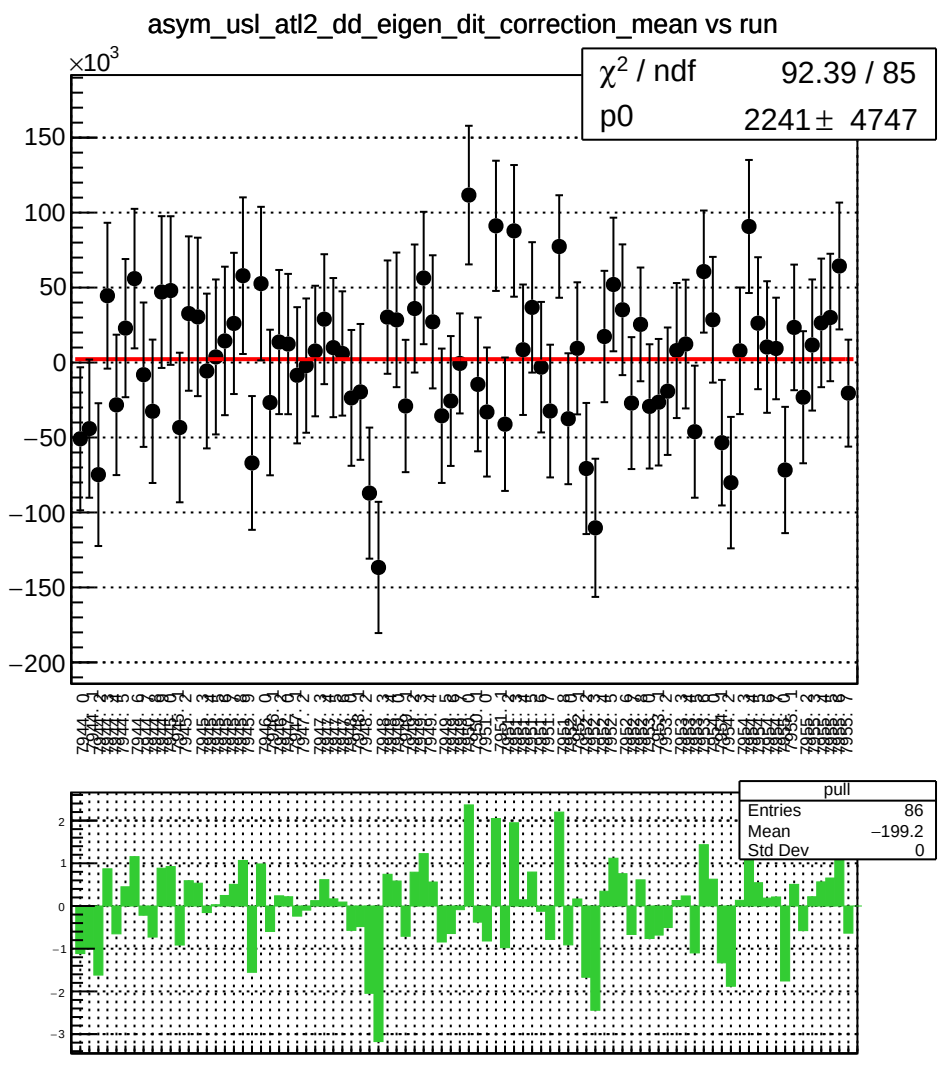

pull1D
Entries 86
Mean −0.00477
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

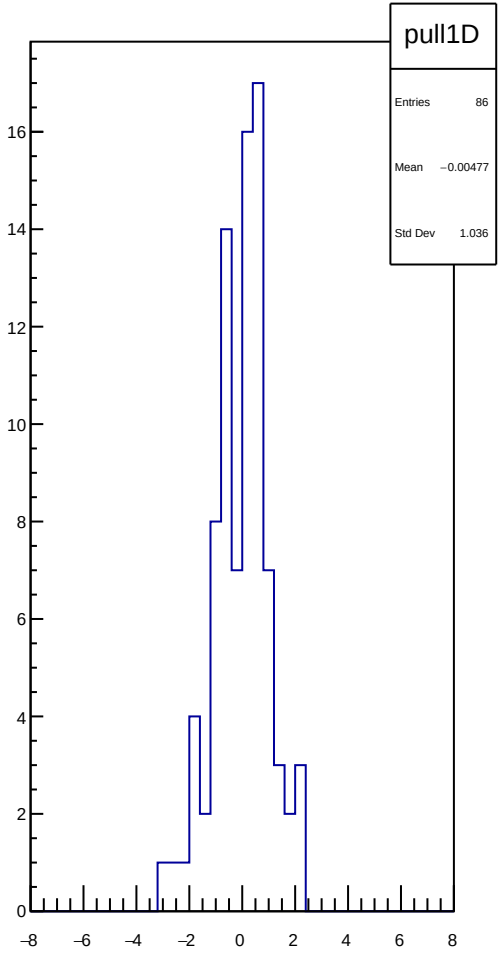

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 5641 / 85
p0 4264 ± 3.357
5000
4800
4600
4400
4200
4000
3800

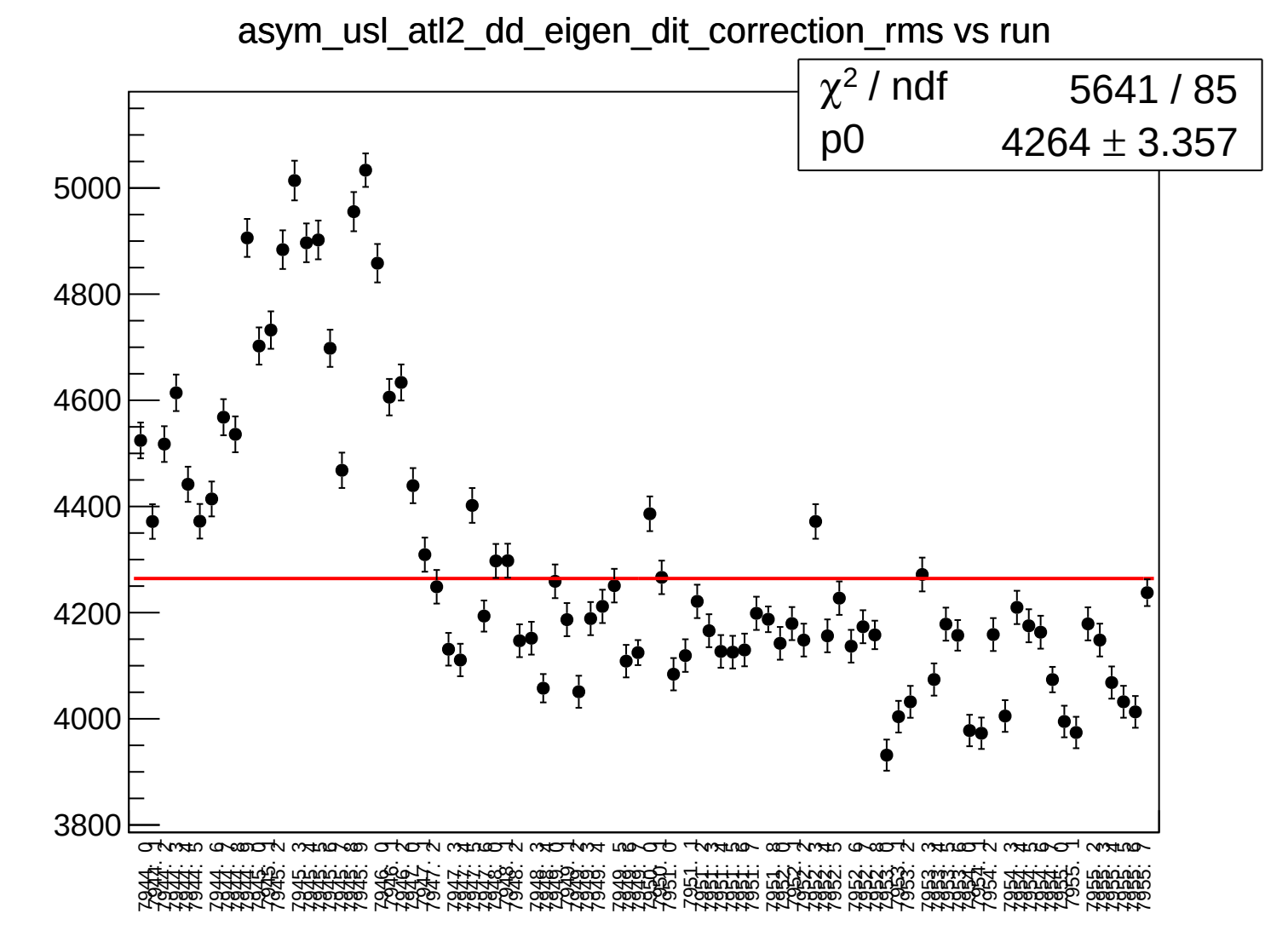

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 99.56 / 85
p0 1616 ± 1131
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −1241
Std Dev 0
2
1
0
−1
−2

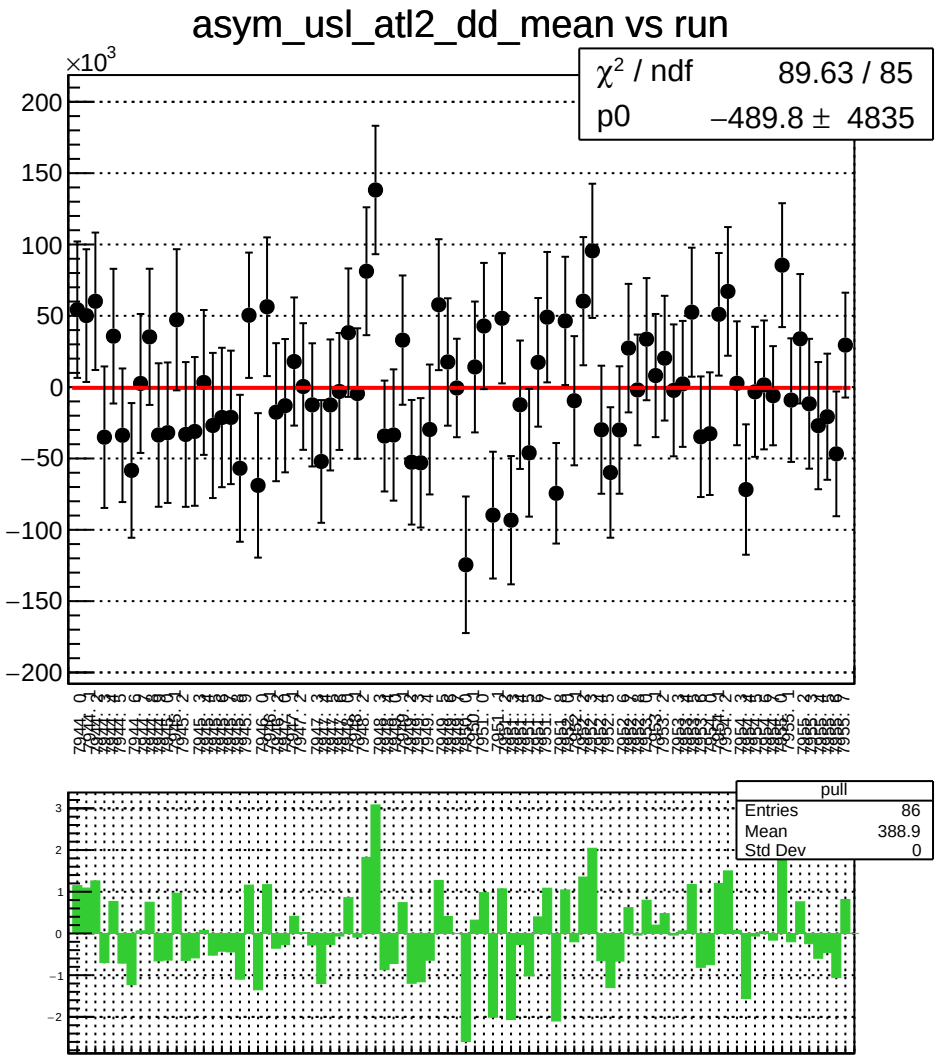

pull1D
Entries 86
Mean −0.005564
Std Dev 1.076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

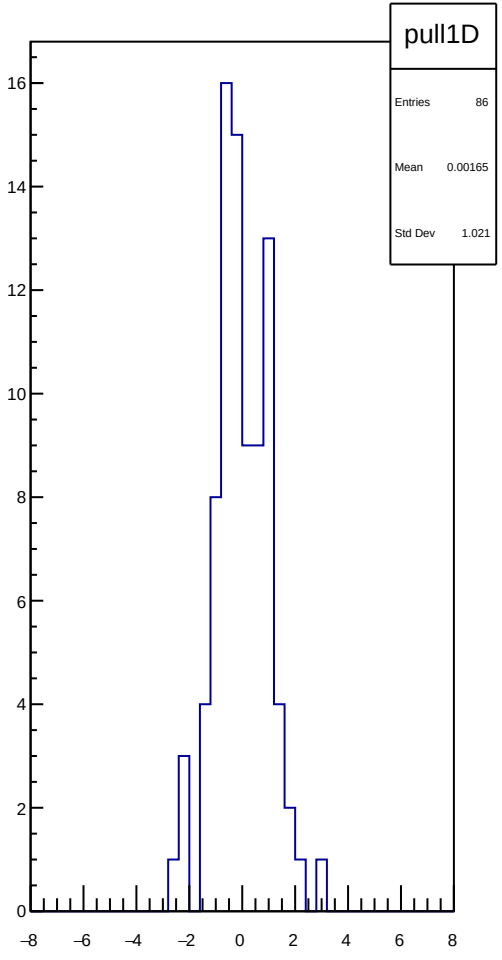

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 485.8 / 85
p0 1018 ± 0.7999
1080
1060
1040
1020
1000
980

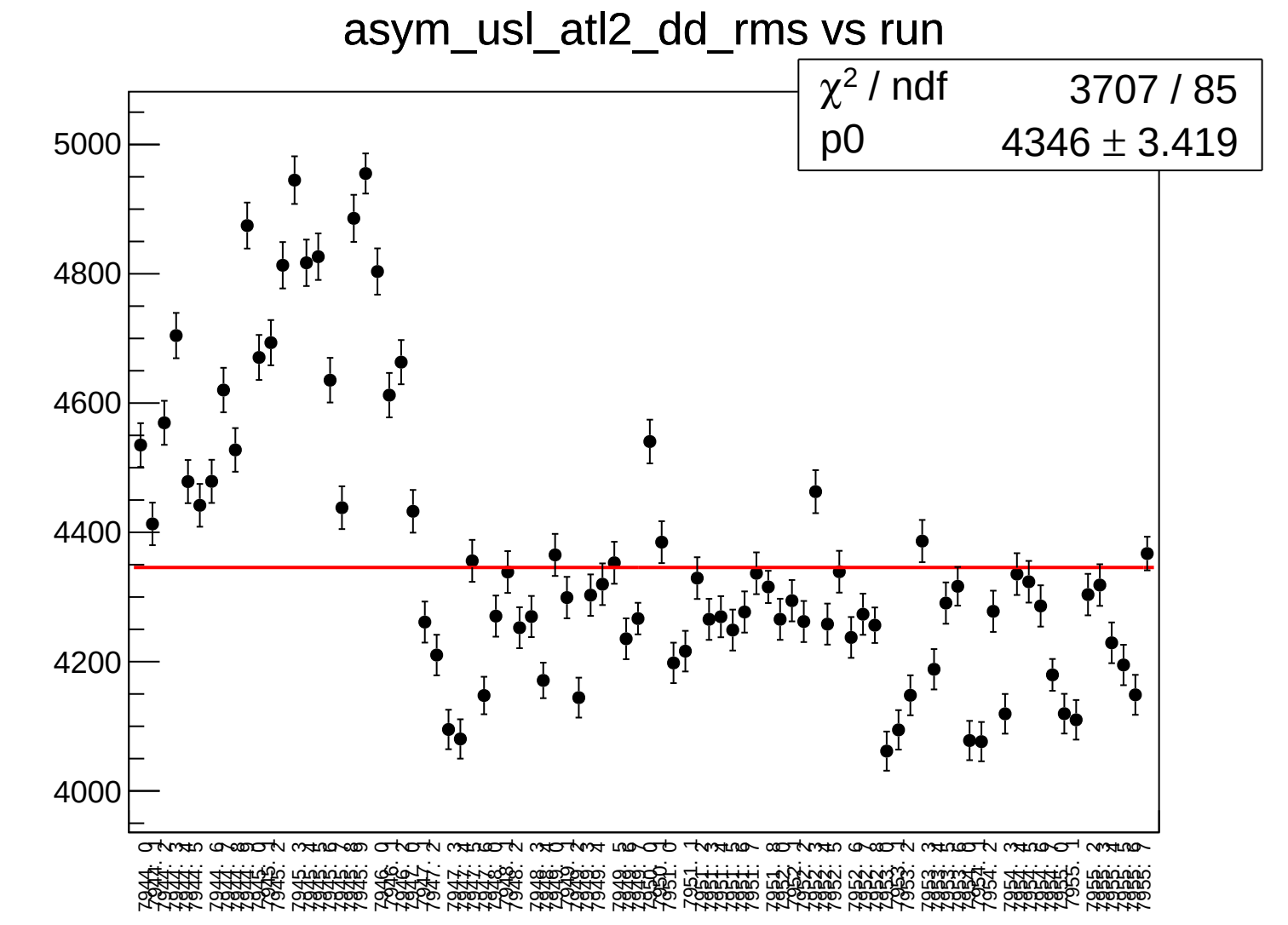

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 92.39 / 85
p0 2241 ± 4747
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −199.2
Std Dev 0
2
1
0
−1
−2
−3

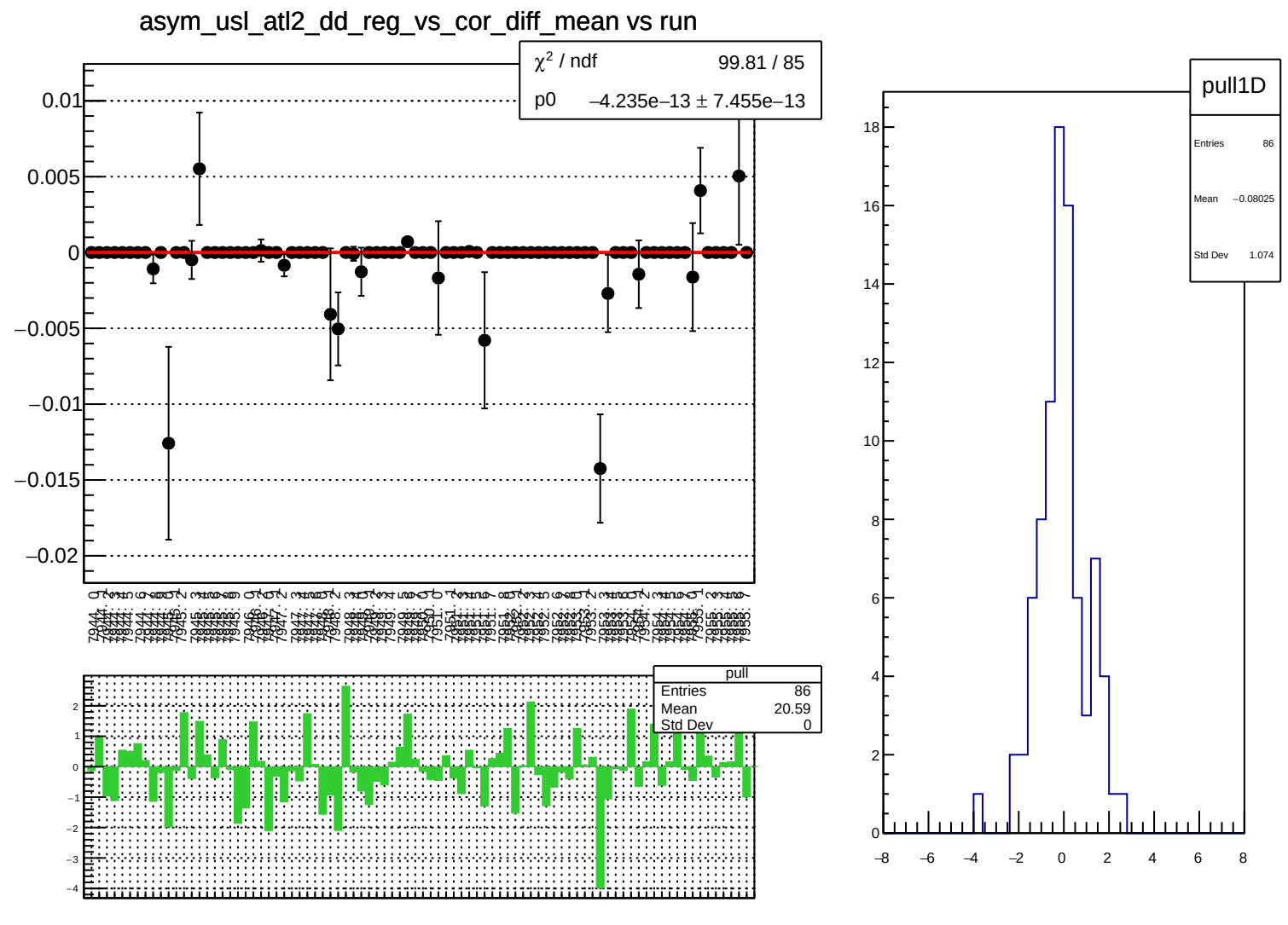

pull1D
Entries 86
Mean −0.00477
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

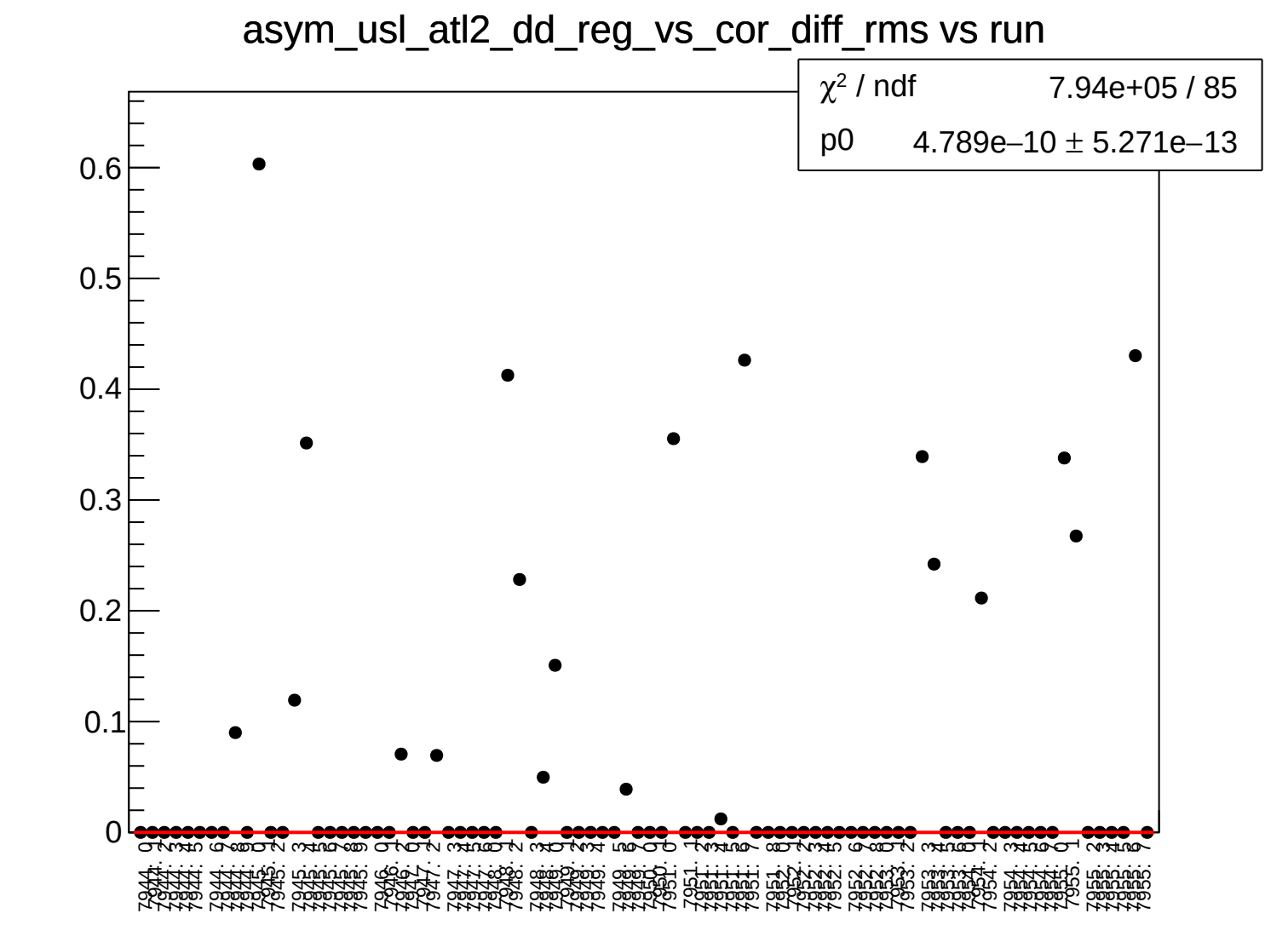

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5641 / 85
p0 4264 ± 3.357
5000
4800
4600
4400
4200
4000
3800

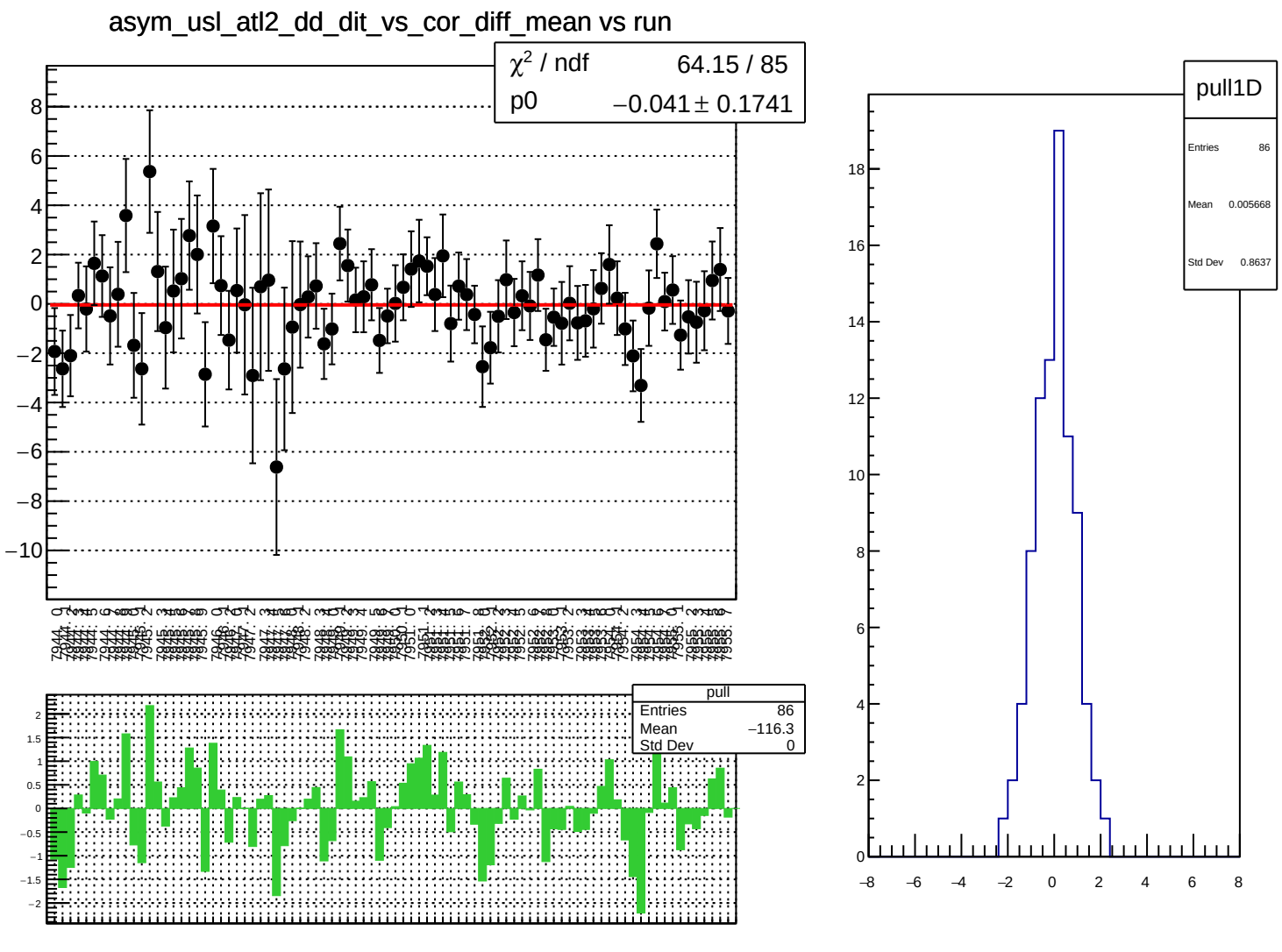

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 89.63 / 85
p0 −489.8 ± 4835
pull
Entries 86
Mean 388.9
Std Dev 0

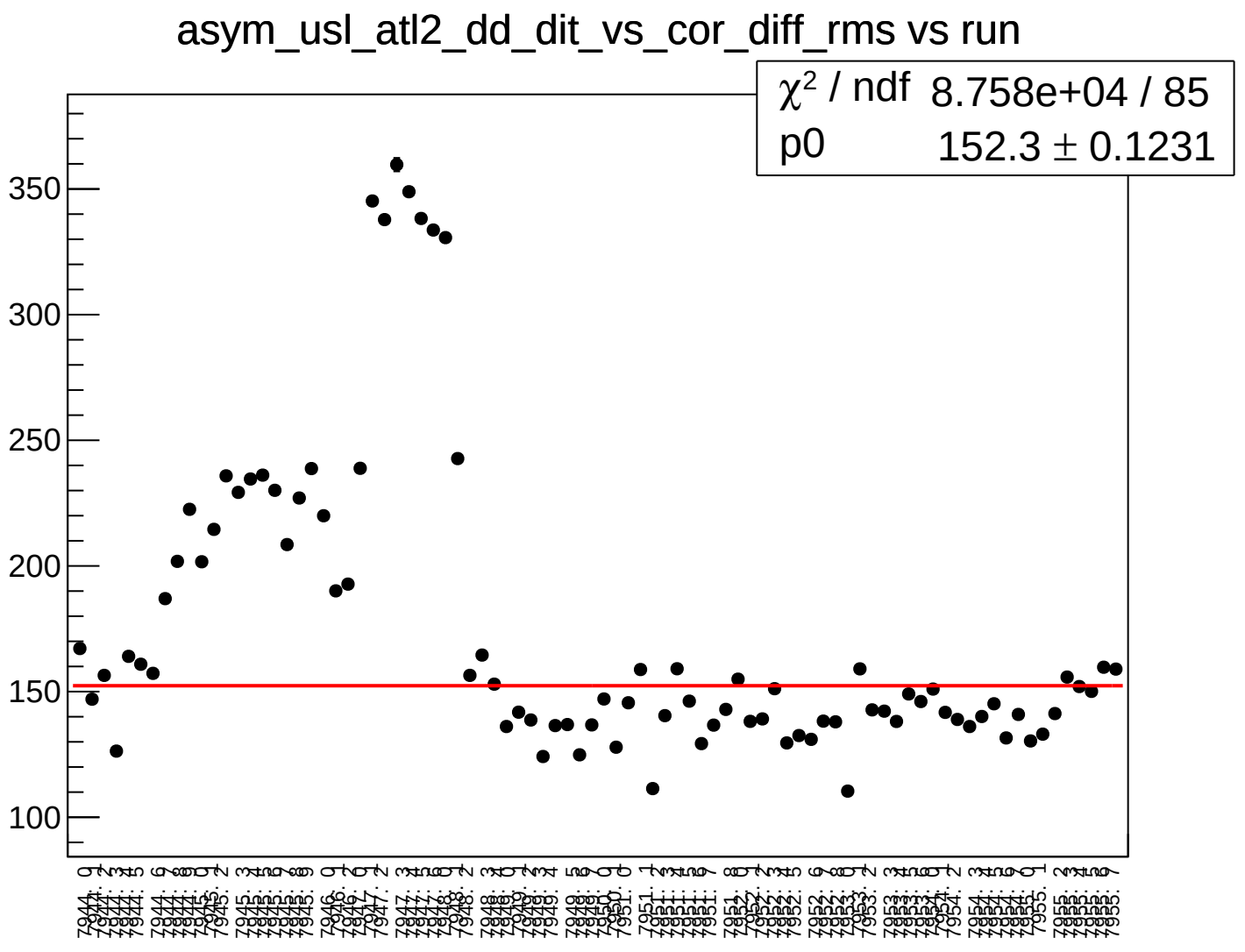

pull1D
Entries 86
Mean 0.00165
Std Dev 1.021

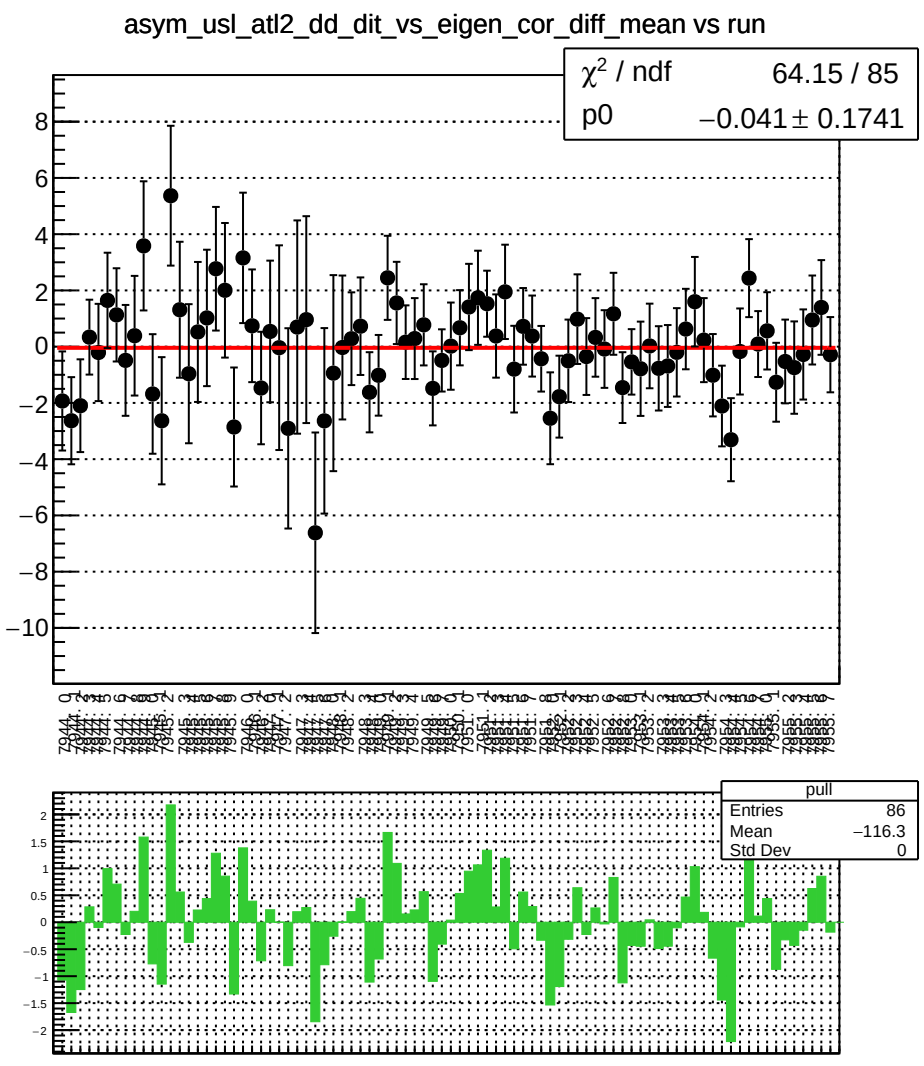

asym_usl_atl2_dd_rms vs run
χ² / ndf 3707 / 85
p0 4346 ± 3.419
5000
4800
4600
4400
4200
4000

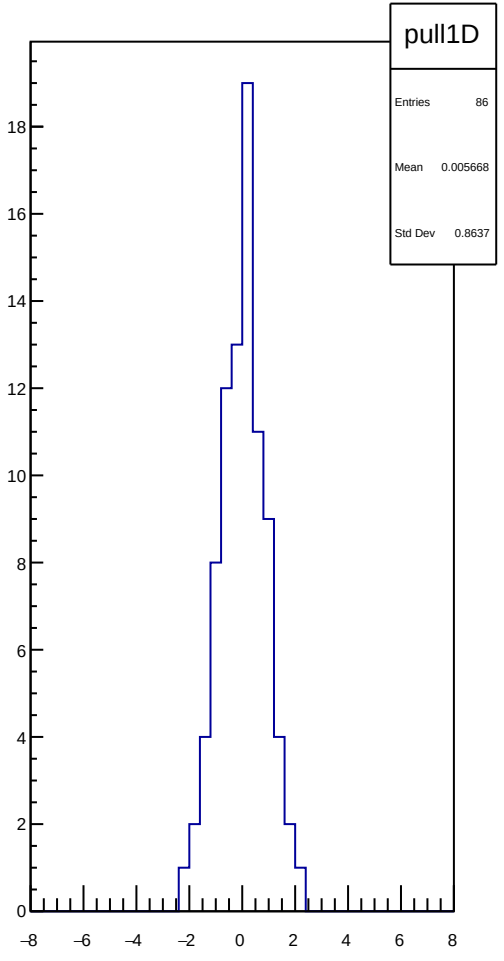

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.81 / 85
p0 −4.235e−13 ± 7.455e−13
pull
Entries 86
Mean 20.59
Std Dev 0
pull1D
Entries 86
Mean −0.08025
Std Dev 1.074

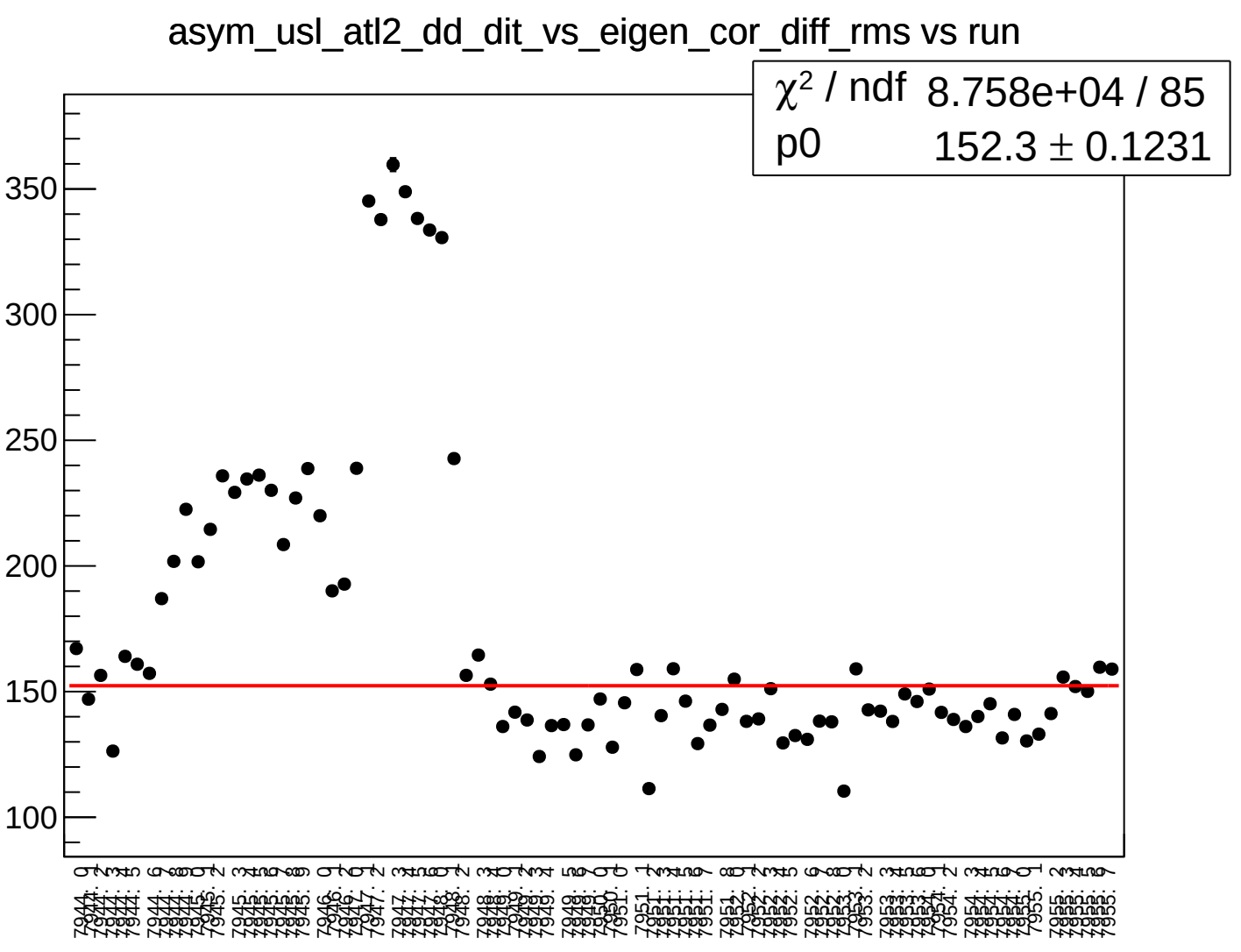

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.94e+05 / 85
p0 4.789e−10 ± 5.271e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

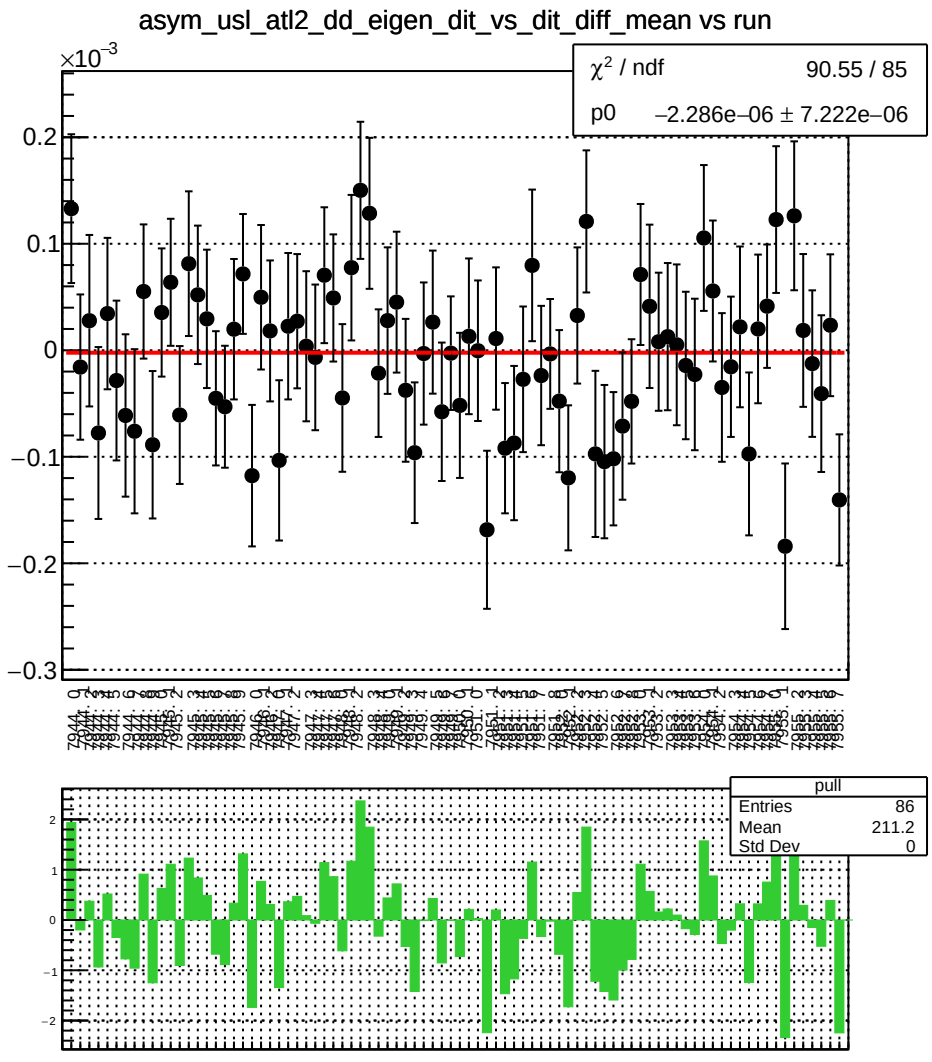

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.15 / 85
p0 −0.041 ± 0.1741
pull
Entries 86
Mean −116.3
Std Dev 0
pull1D
Entries 86
Mean 0.005668
Std Dev 0.8637

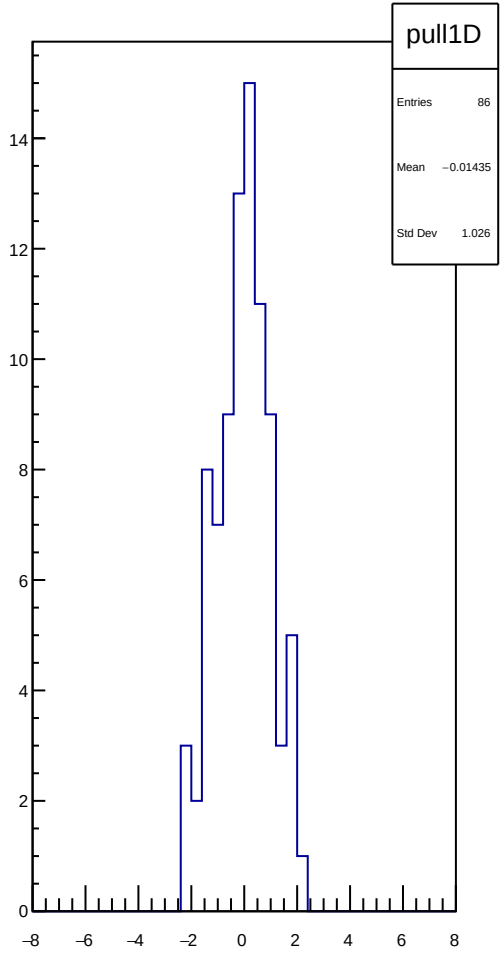

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.758e+04 / 85
p0 152.3 ± 0.1231
350
300
250
200
150
100

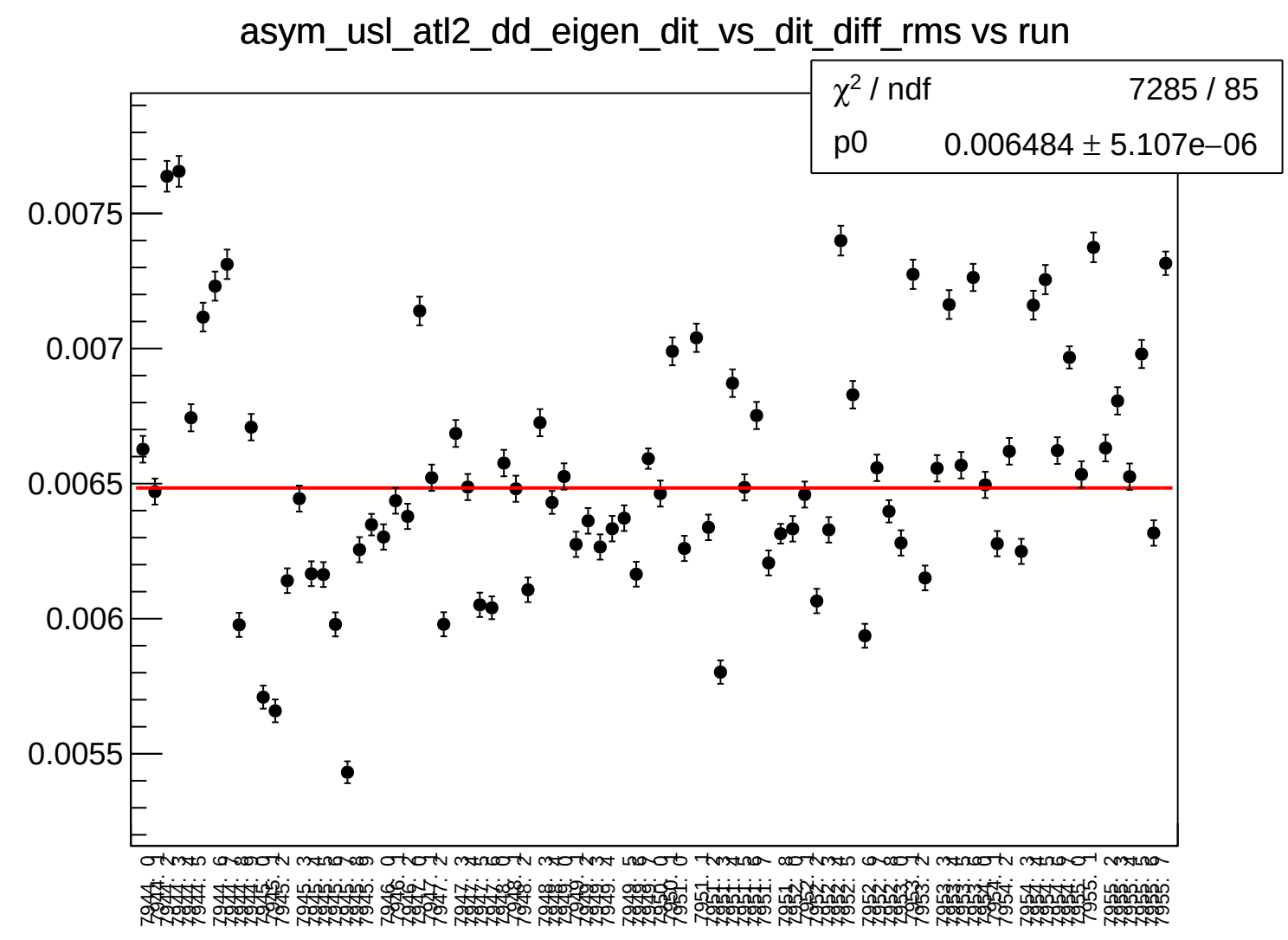

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.15 / 85
p0 −0.041 ± 0.1741
pull
Entries 86
Mean −116.3
Std Dev 0

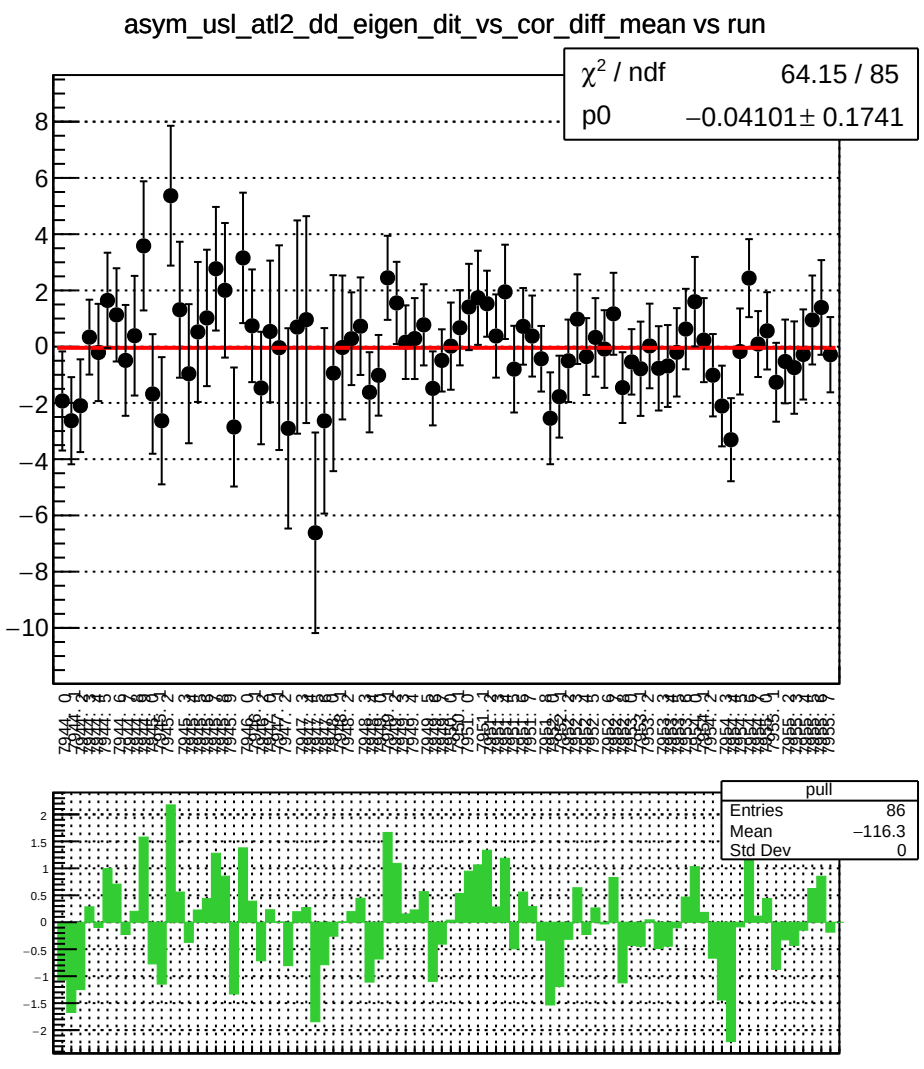

pull1D
Entries 86
Mean 0.005668
Std Dev 0.8637

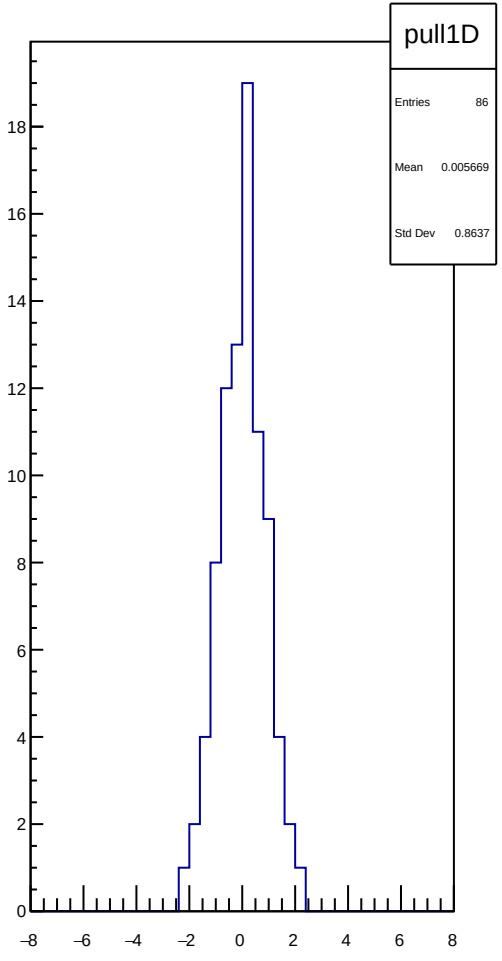

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.758e+04 / 85
p0 152.3 ± 0.1231
350
300
250
200
150
100

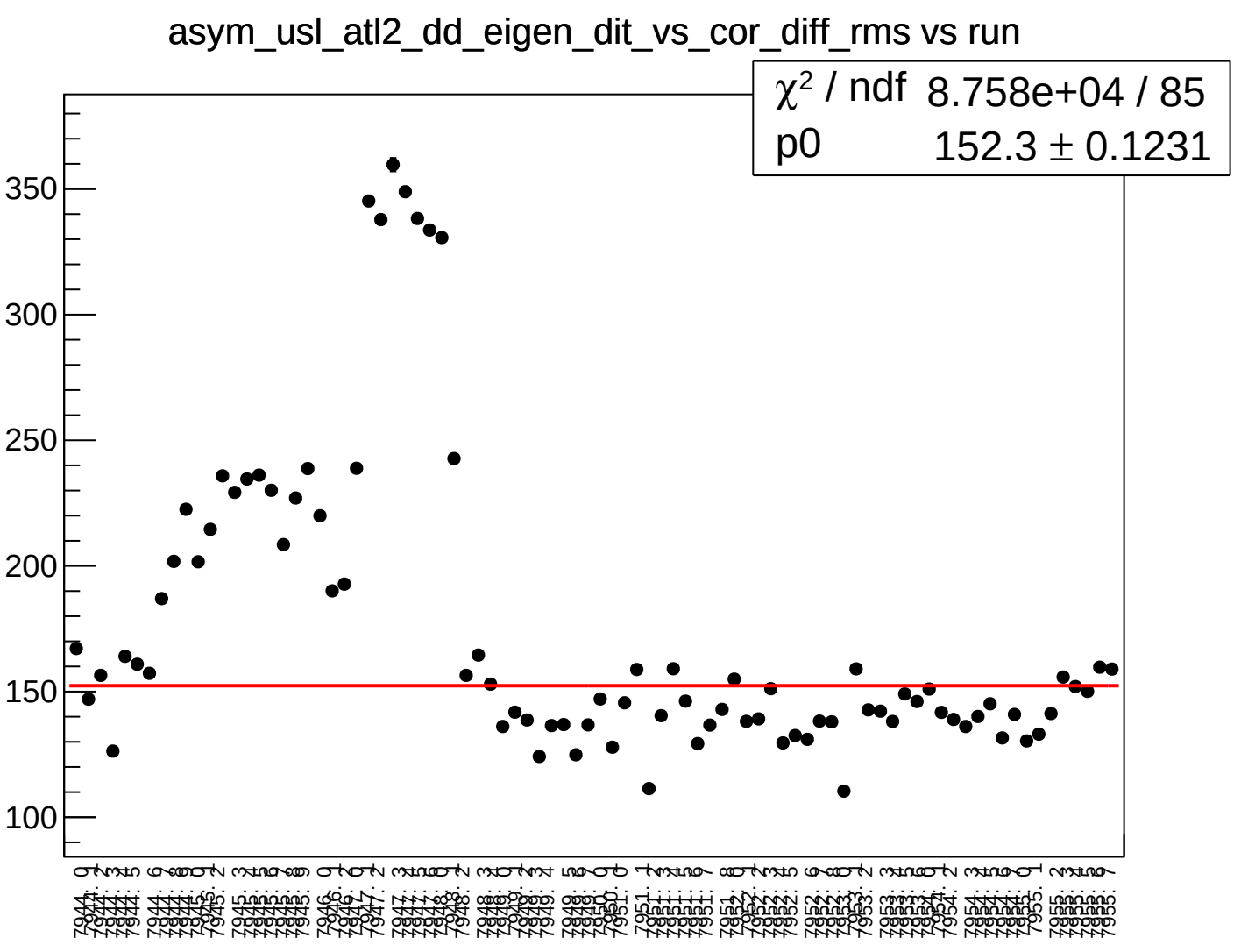

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.55 / 85
p0 −2.286e−06 ± 7.222e−06
pull
Entries 86
Mean 211.2
Std Dev 0

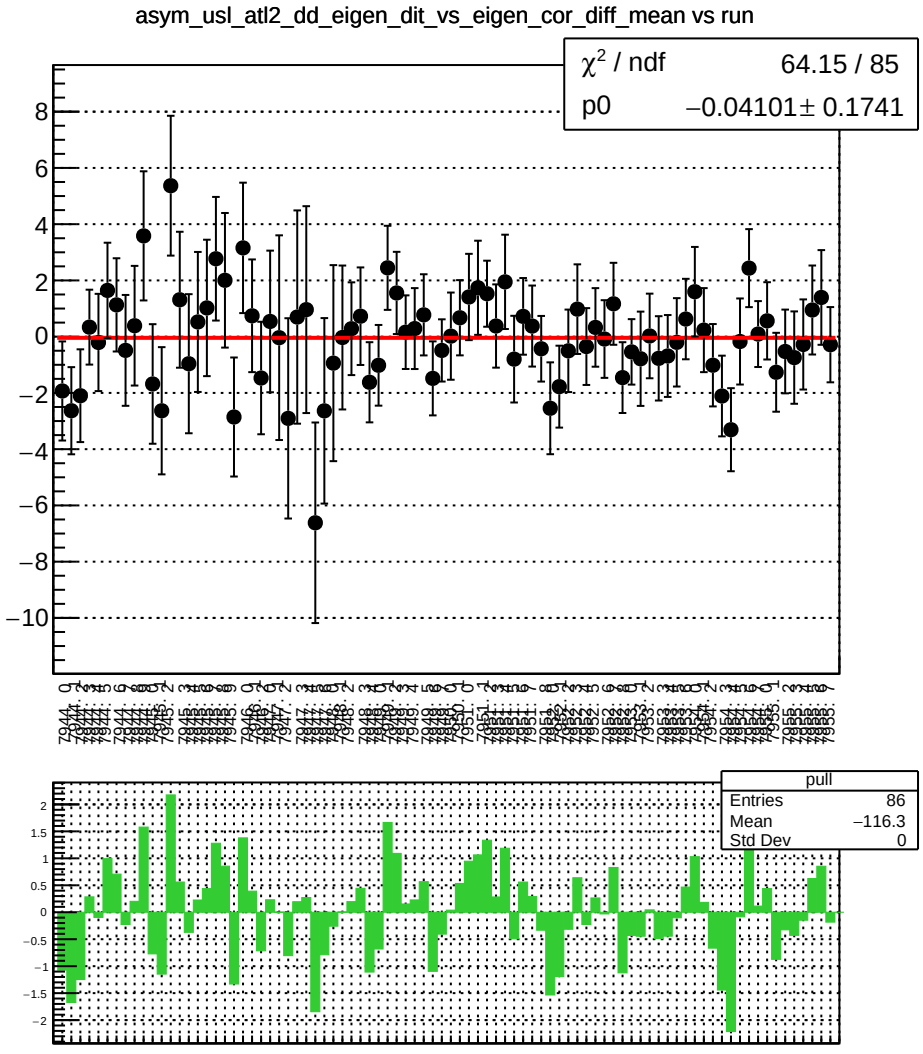

pull1D
Entries 86
Mean −0.01435
Std Dev 1.026

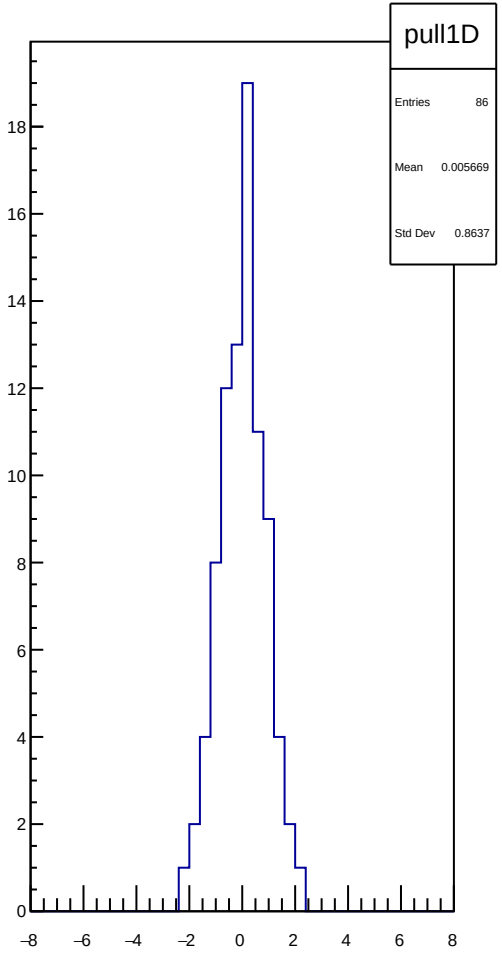

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7285 / 85
p0 0.006484 ± 5.107e−06
0.0075
0.007
0.0065
0.006
0.0055

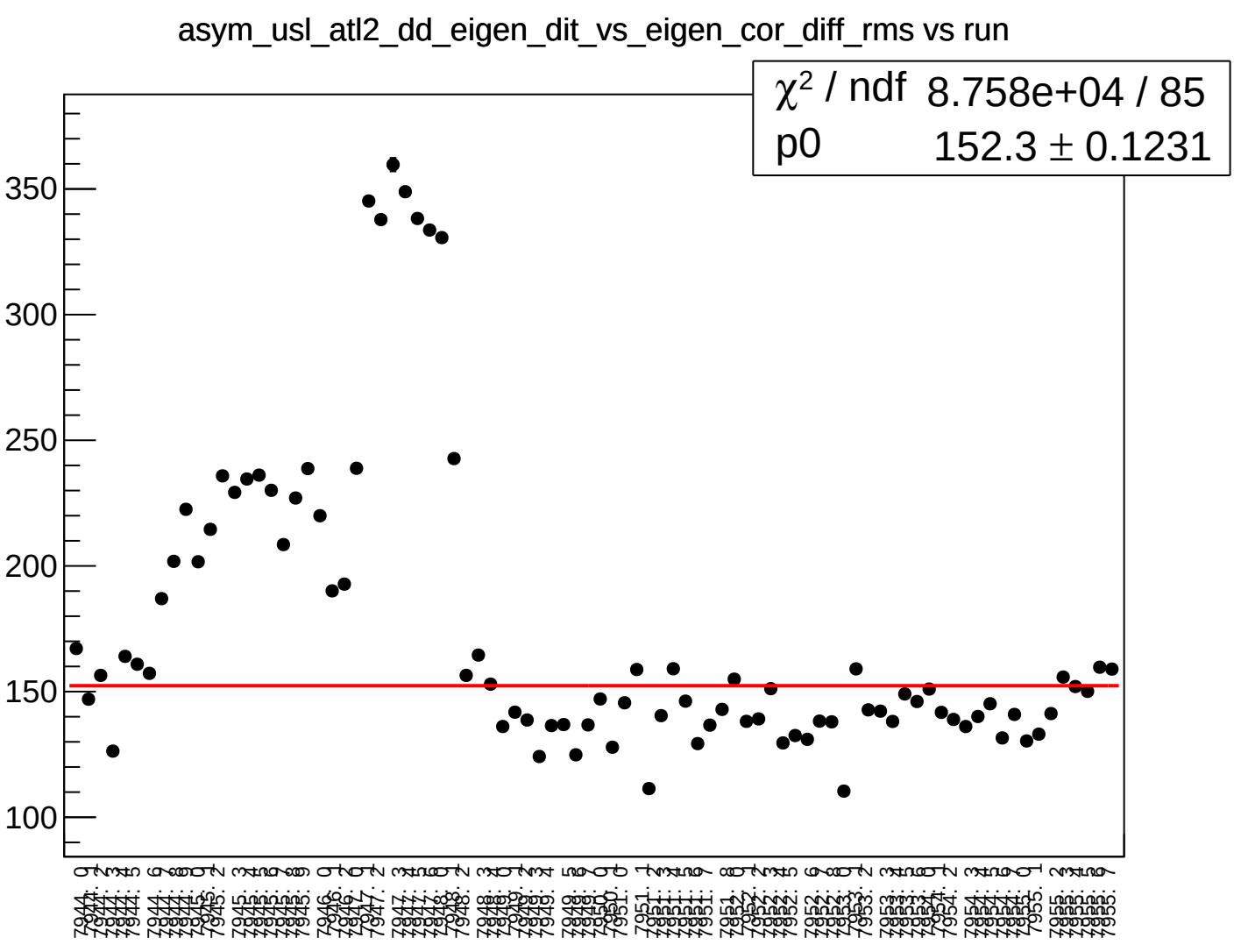

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.15 / 85
p0 −0.04101 ± 0.1741
pull
Entries 86
Mean −116.3
Std Dev 0

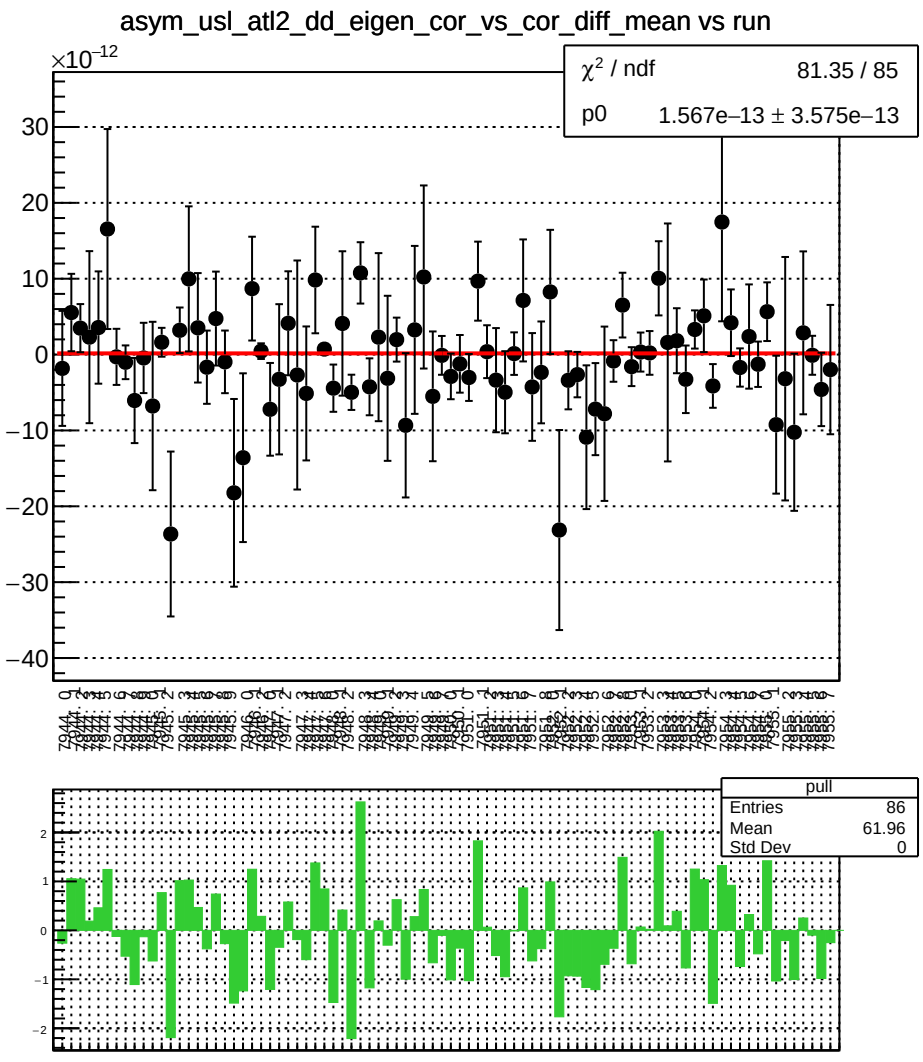

pull1D
Entries 86
Mean 0.005669
Std Dev 0.8637

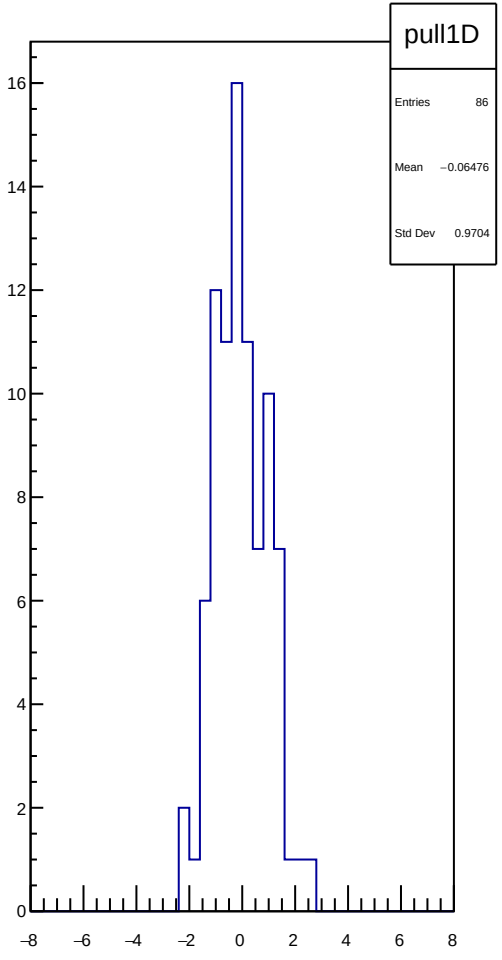

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.758e+04 / 85
p0 152.3 ± 0.1231
350
300
250
200
150
100

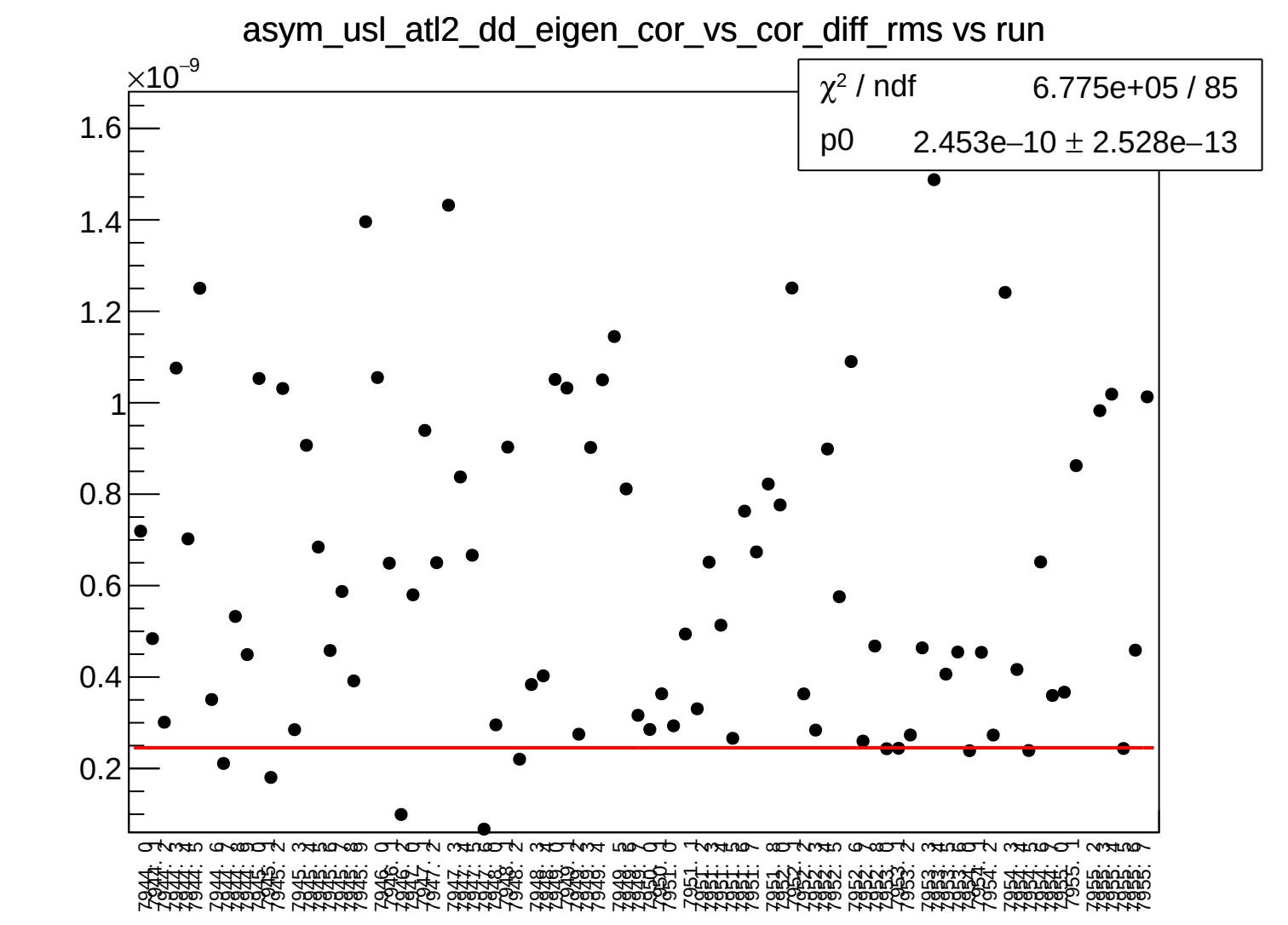

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.15 / 85
p0 −0.04101 ± 0.1741
pull
Entries 86
Mean −116.3
Std Dev 0

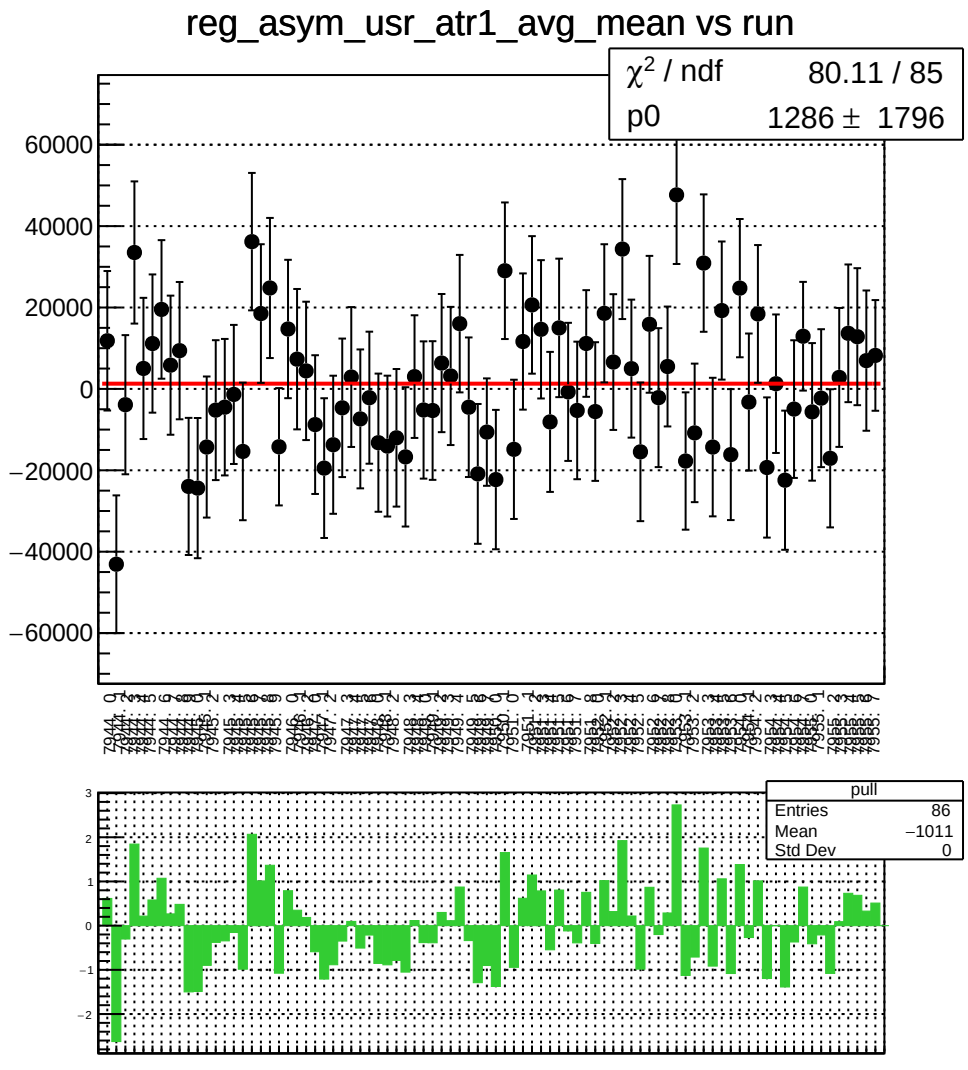

pull1D
Entries 86
Mean 0.005669
Std Dev 0.8637

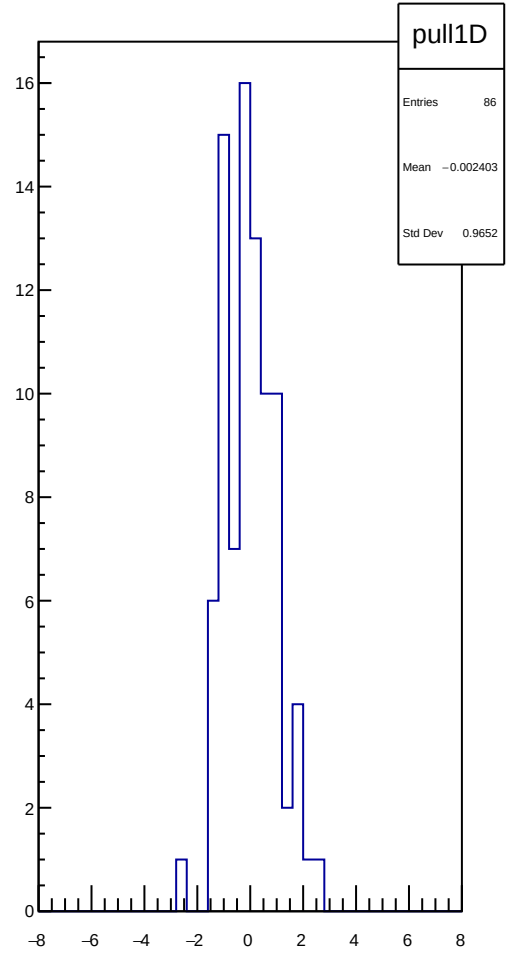

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.758e+04 / 85
p0 152.3 ± 0.1231
350
300
250
200
150
100

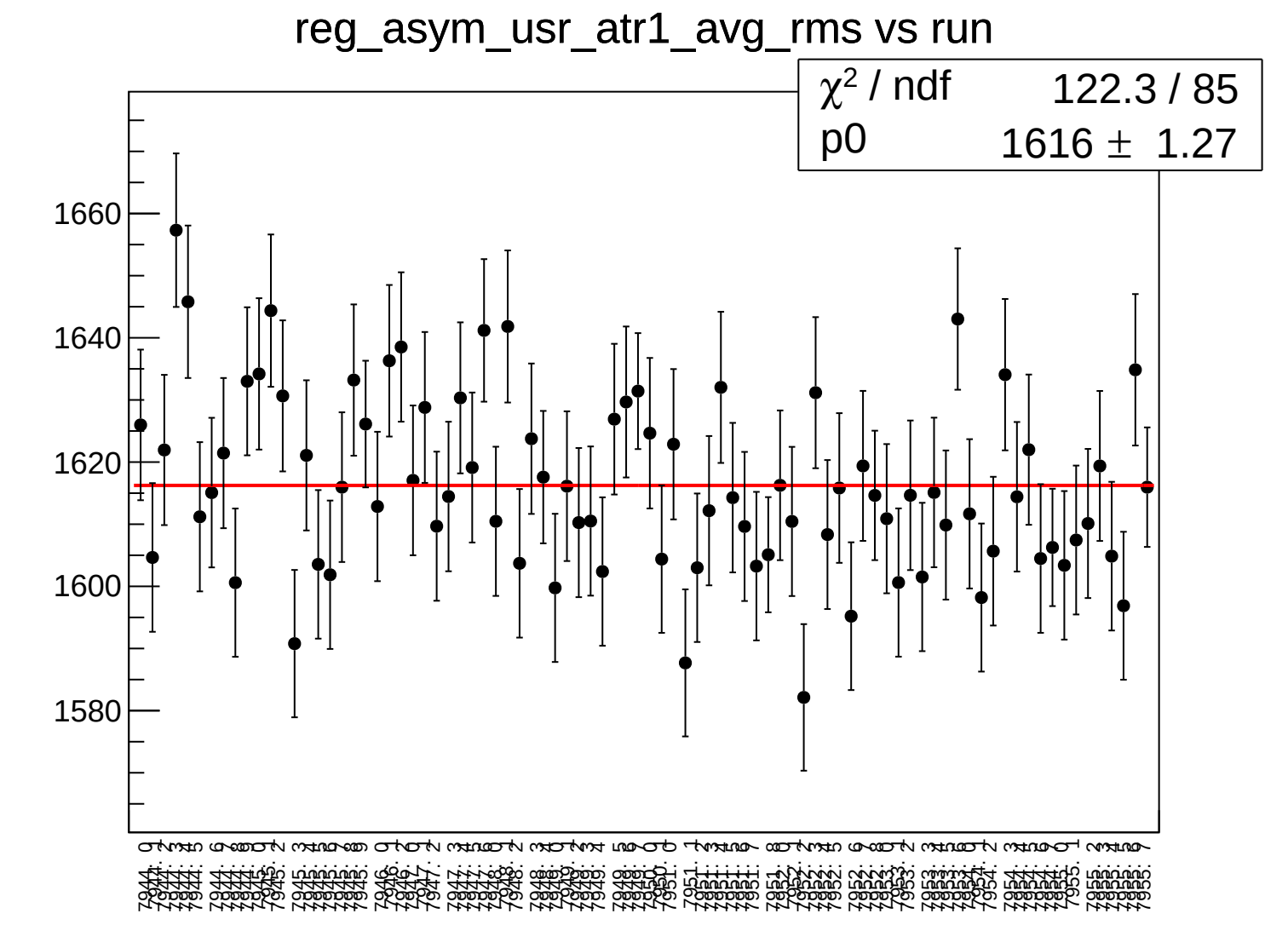

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.35 / 85
p0 1.567e−13 ± 3.575e−13
pull
Entries 86
Mean 61.96
Std Dev 0

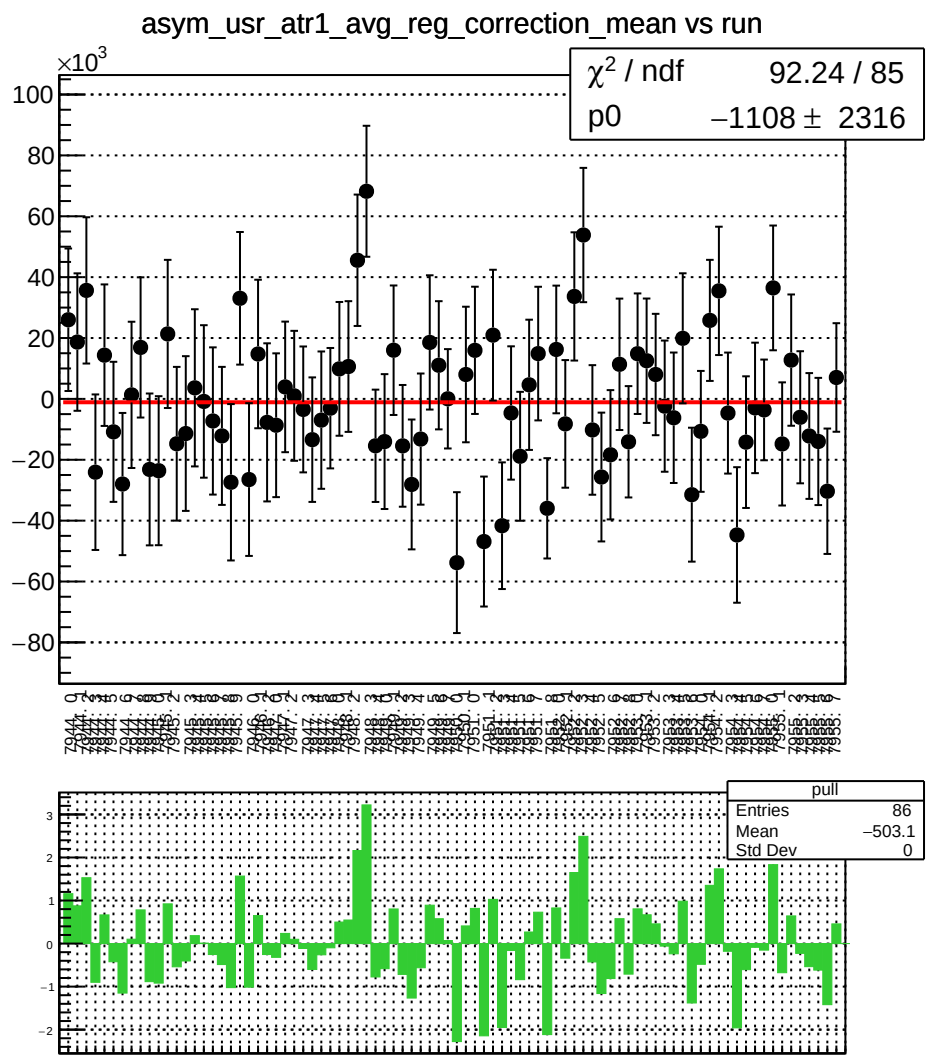

pull1D
Entries 86
Mean −0.06476
Std Dev 0.9704

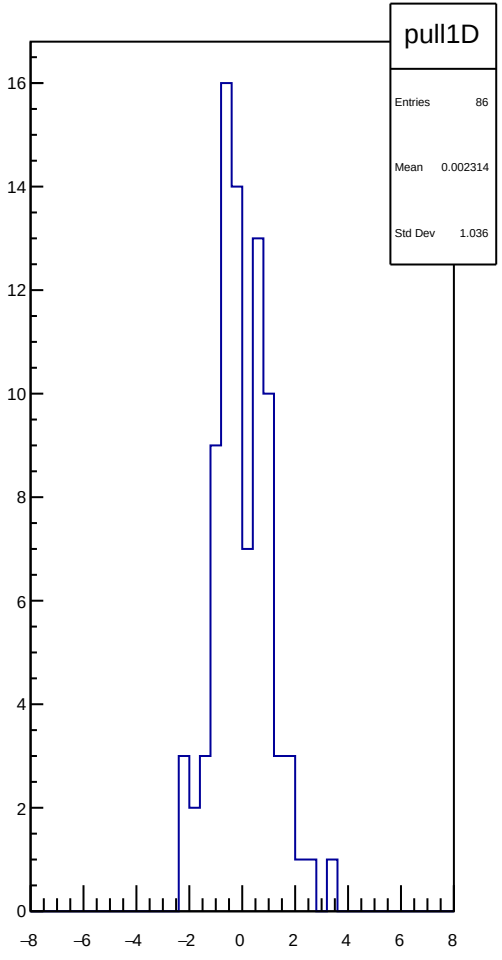

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.775e+05 / 85
p0 2.453e−10 ± 2.528e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

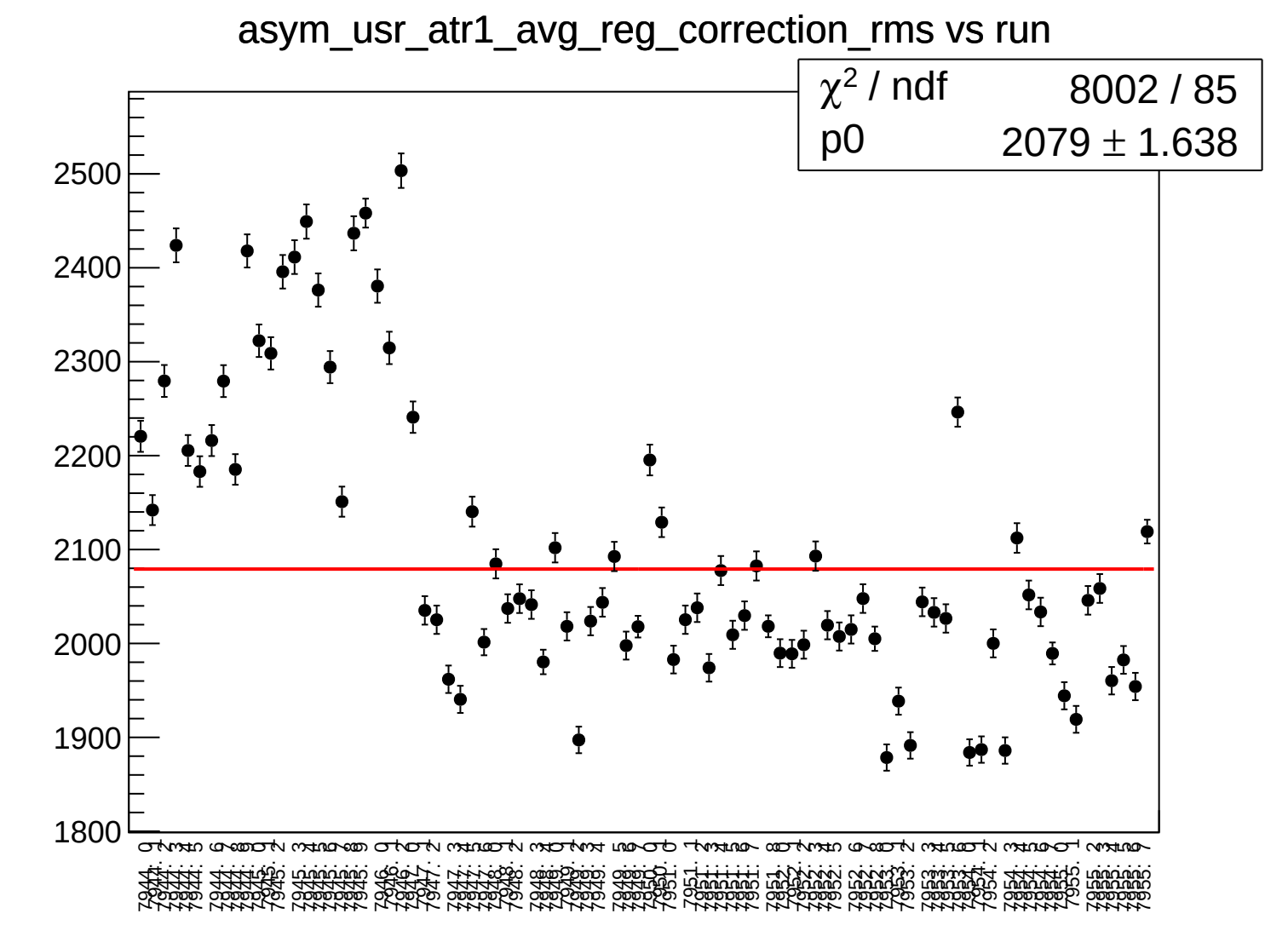

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 80.11 / 85
p0 1286 ± 1796
pull
Entries 86
Mean −1011
Std Dev 0

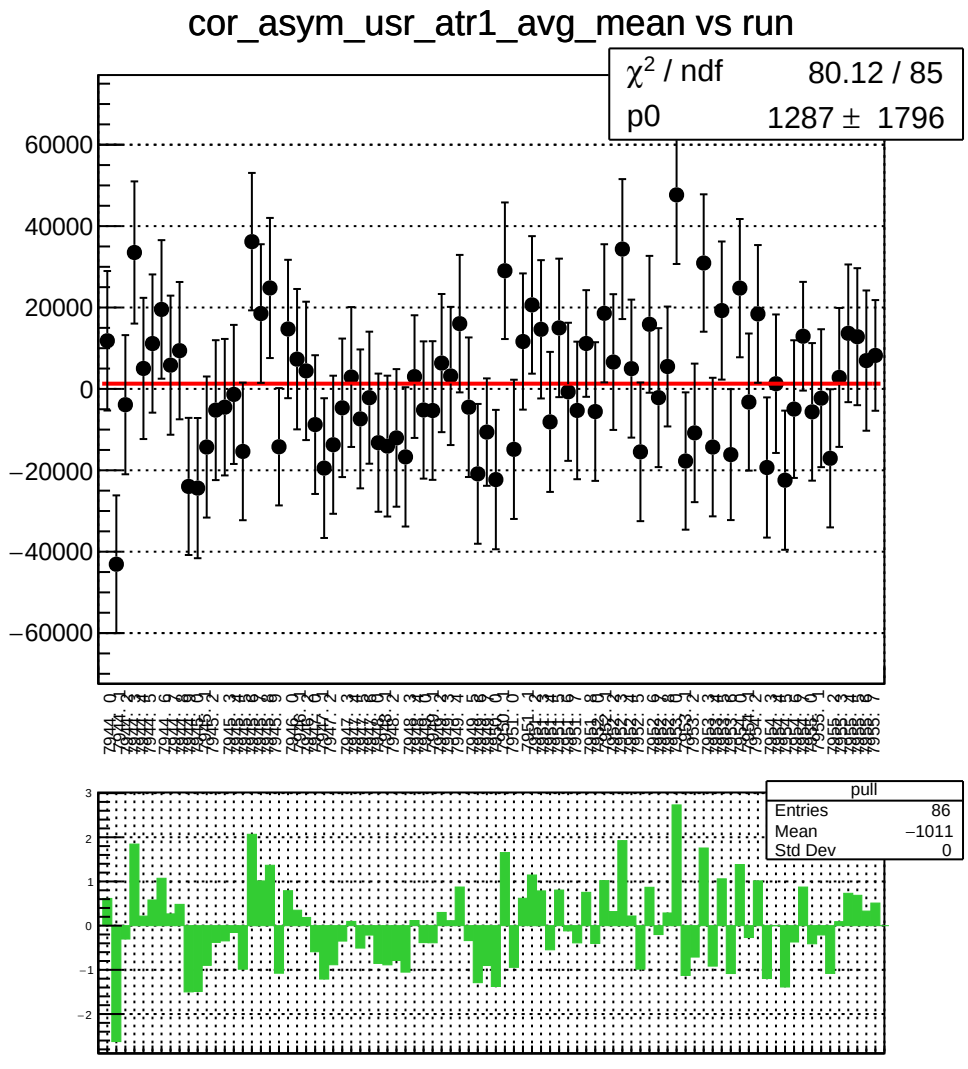

pull1D
Entries 86
Mean −0.002403
Std Dev 0.9652

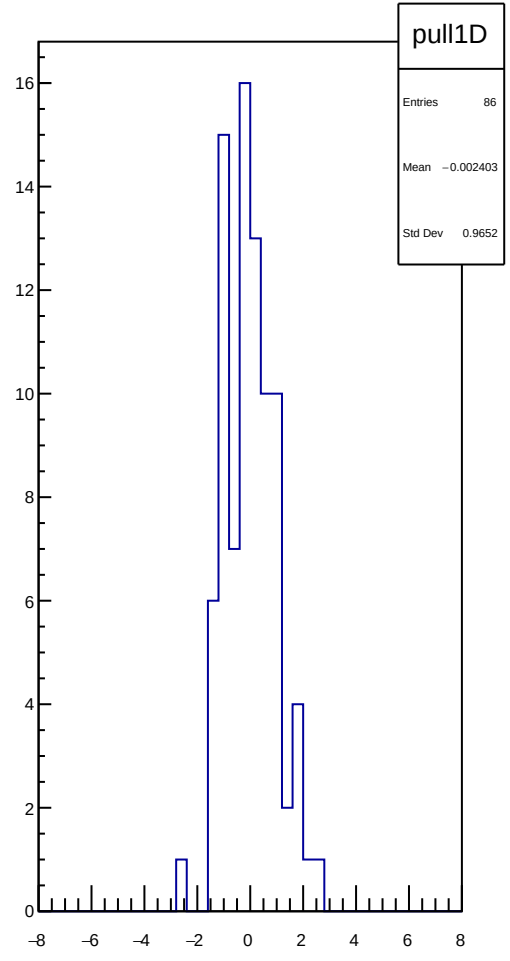

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 122.3 / 85
p0 1616 ± 1.27
1660
1640
1620
1600
1580

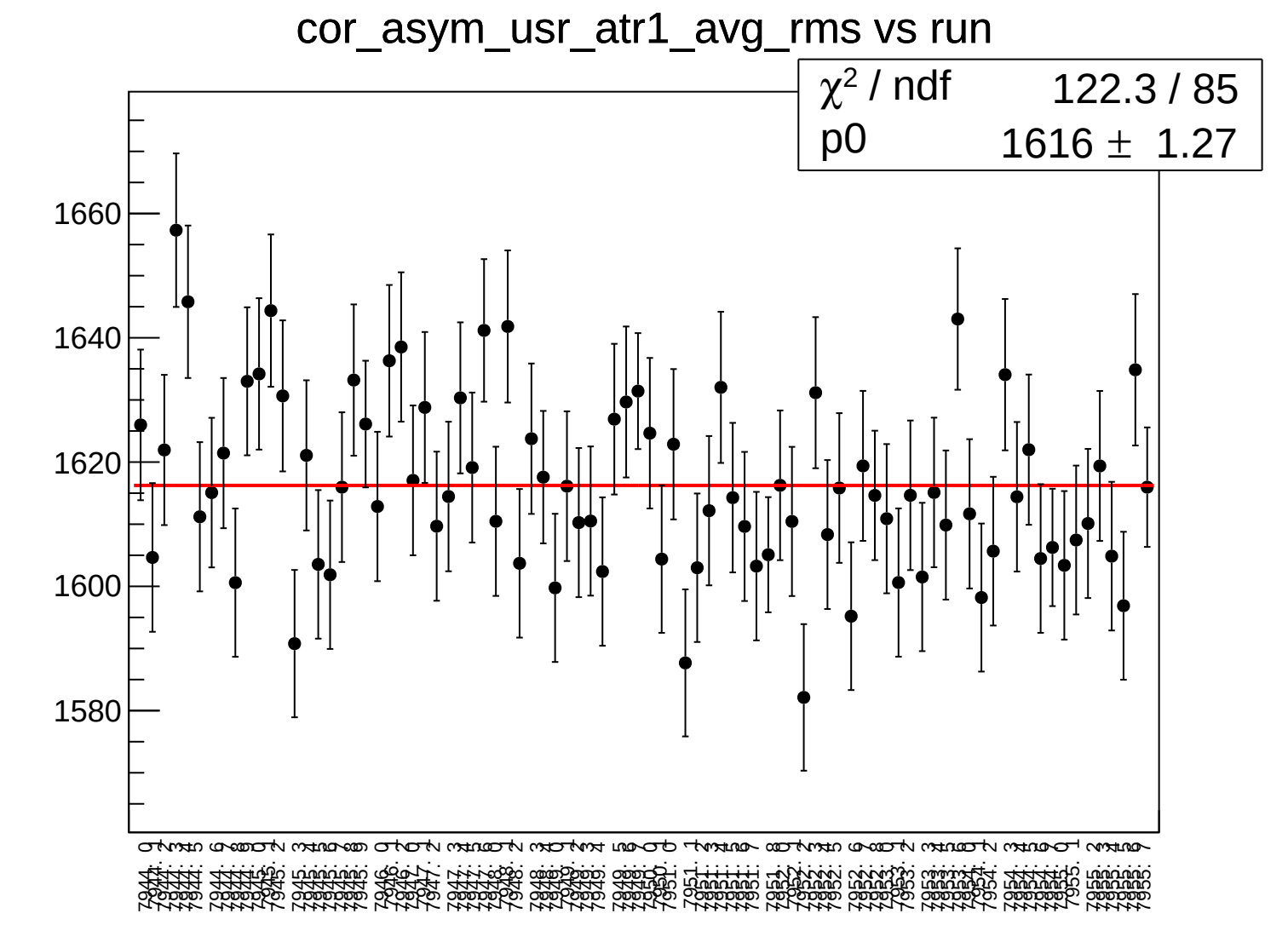

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 92.24 / 85
p0 −1108 ± 2316
×10³
pull
Entries 86
Mean −503.1
Std Dev 0

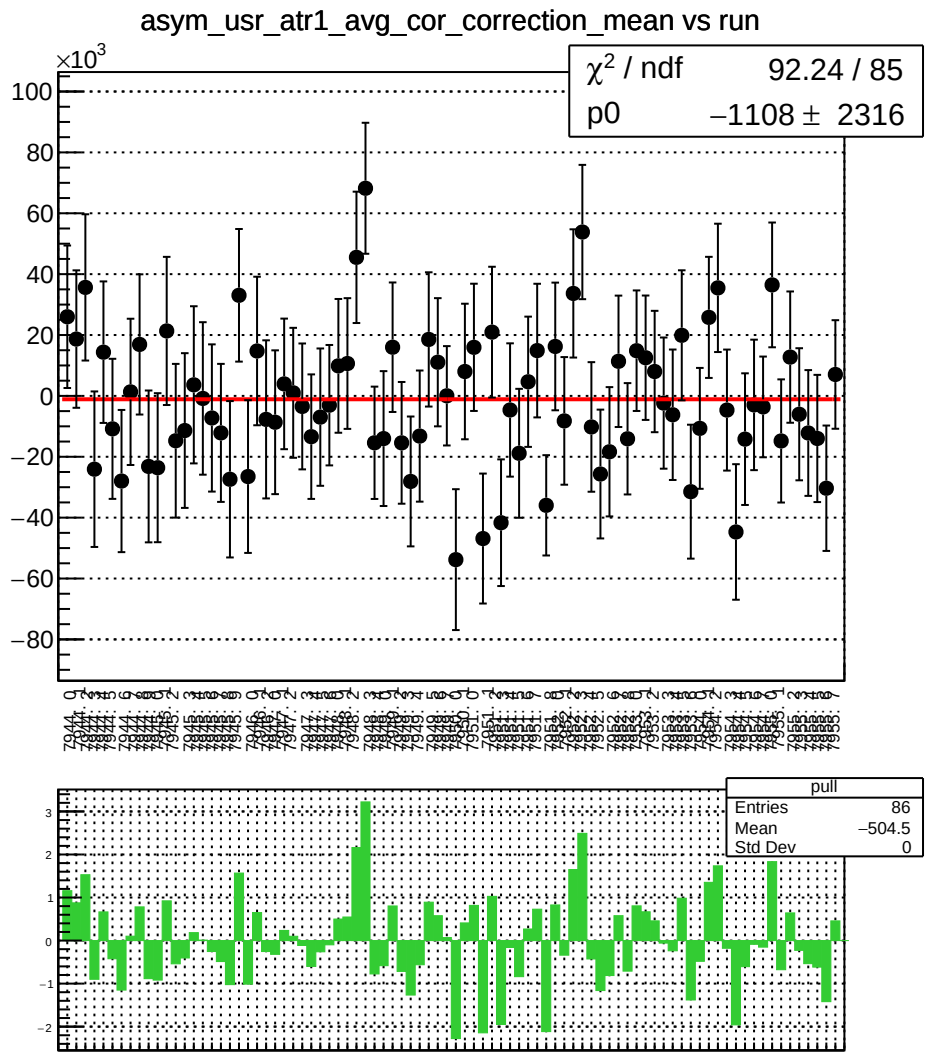

pull1D
Entries 86
Mean 0.002314
Std Dev 1.036

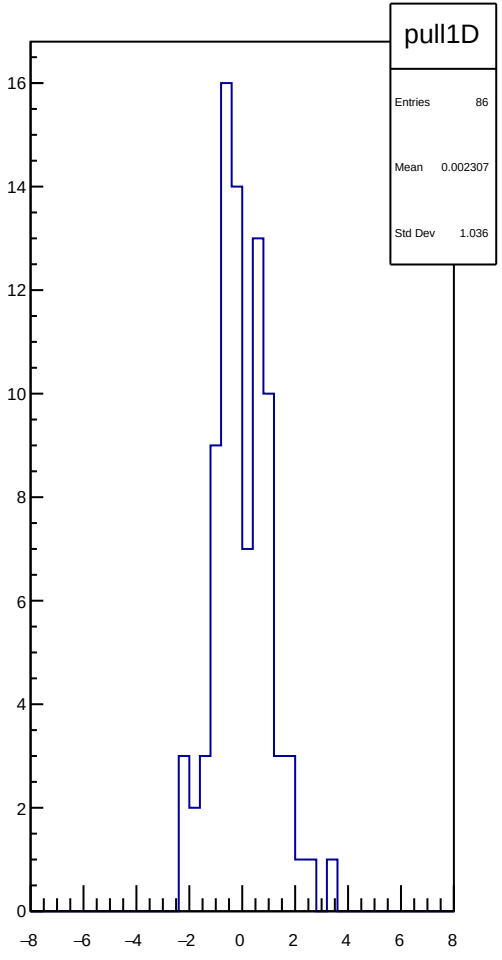

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 8002 / 85
p0 2079 ± 1.638
2500
2400
2300
2200
2100
2000
1900
1800

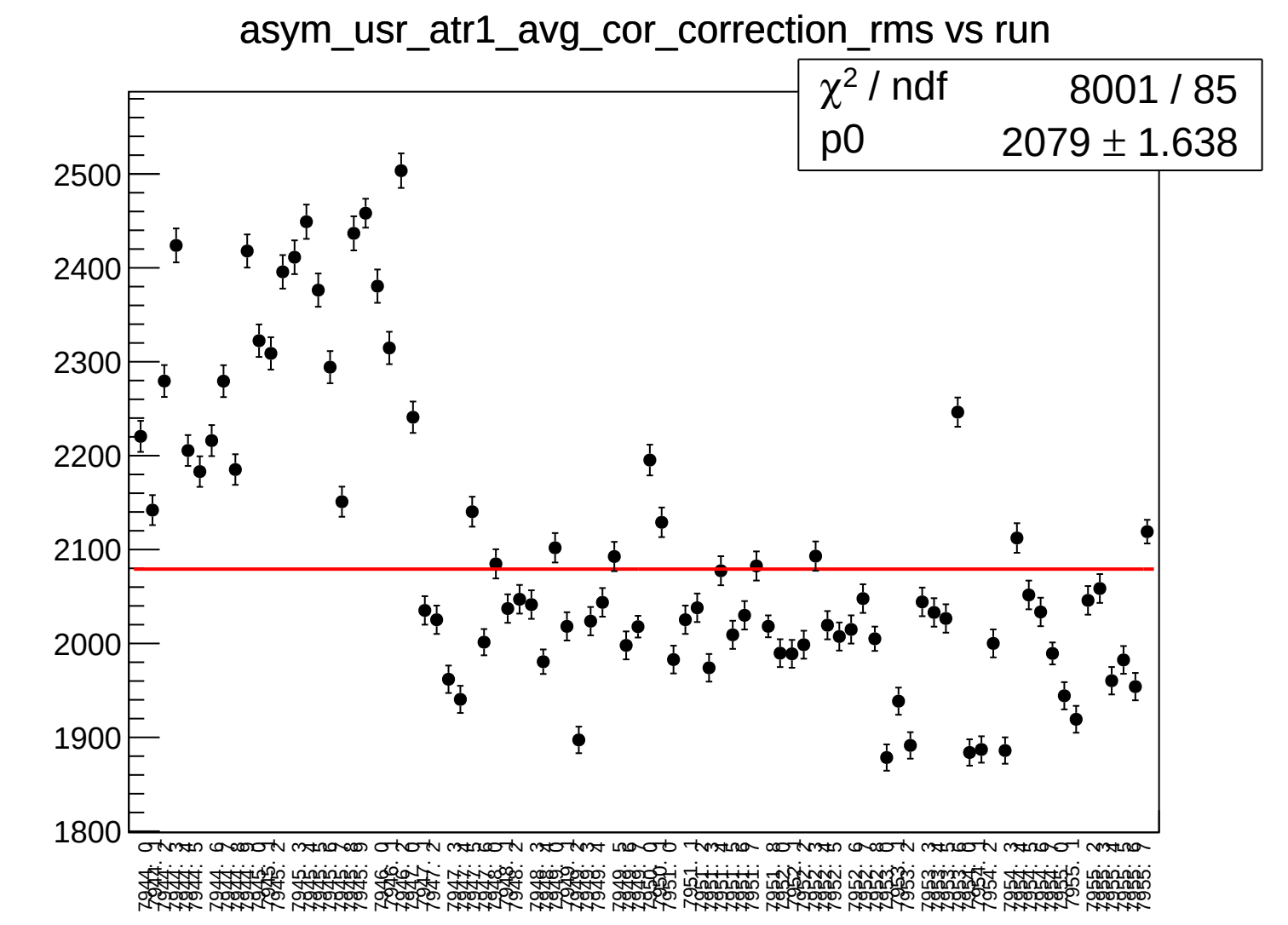

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 80.12 / 85
p0 1287 ± 1796
pull
Entries 86
Mean −1011
Std Dev 0

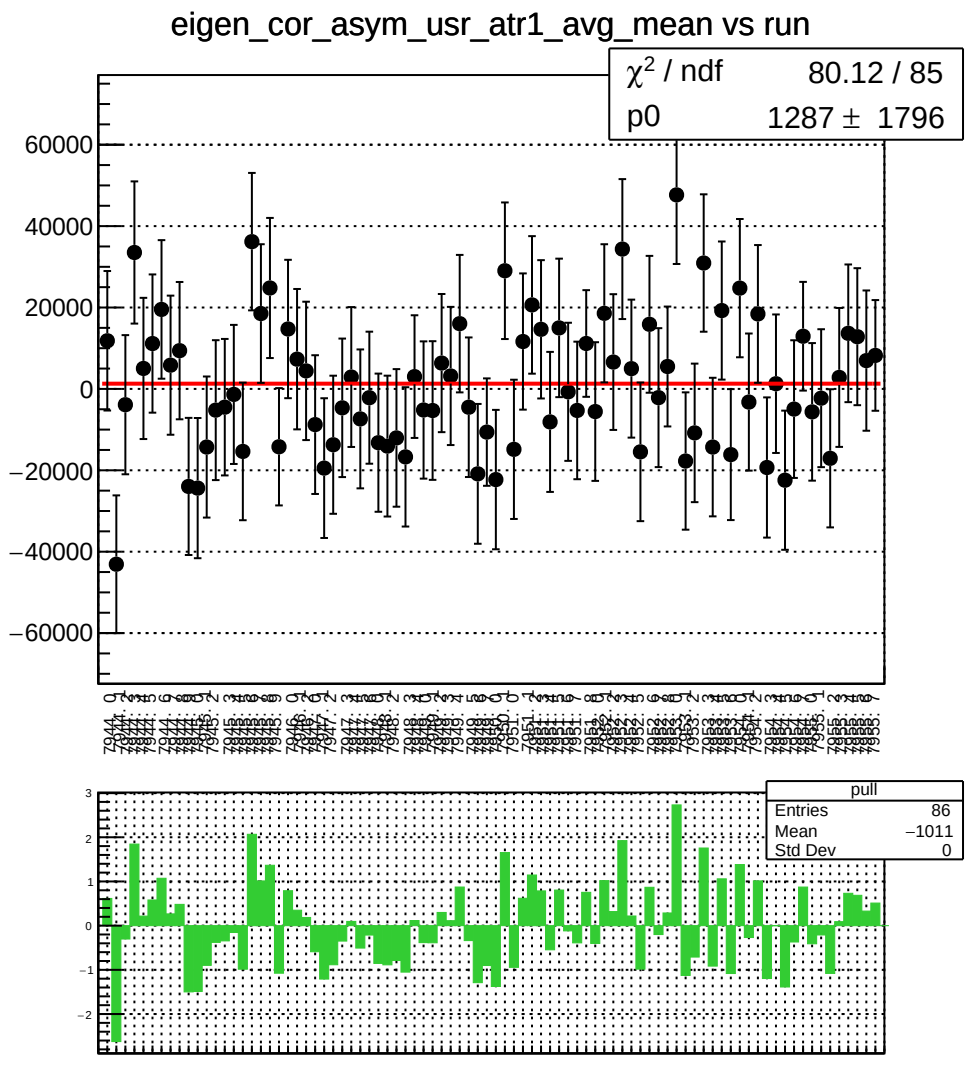

pull1D
Entries 86
Mean −0.002403
Std Dev 0.9652

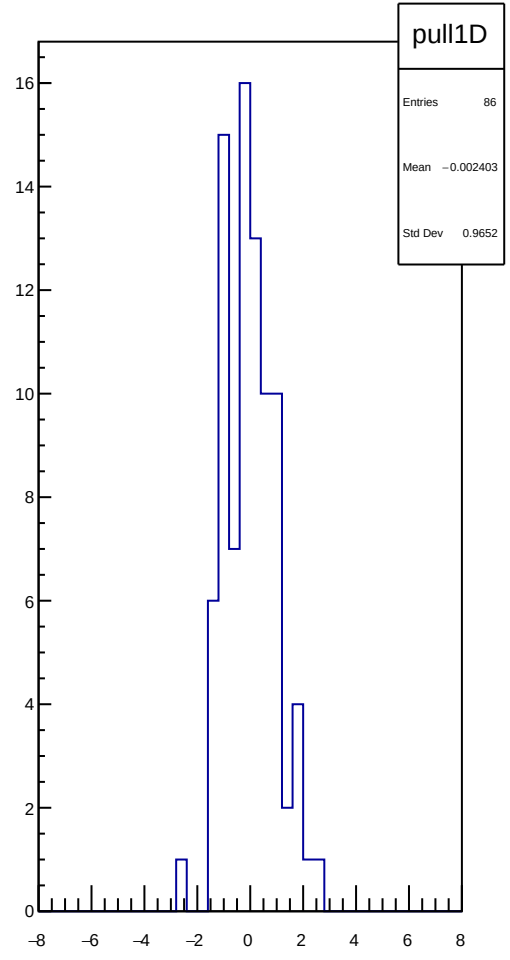

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 122.3 / 85
p0 1616 ± 1.27
1660
1640
1620
1600
1580

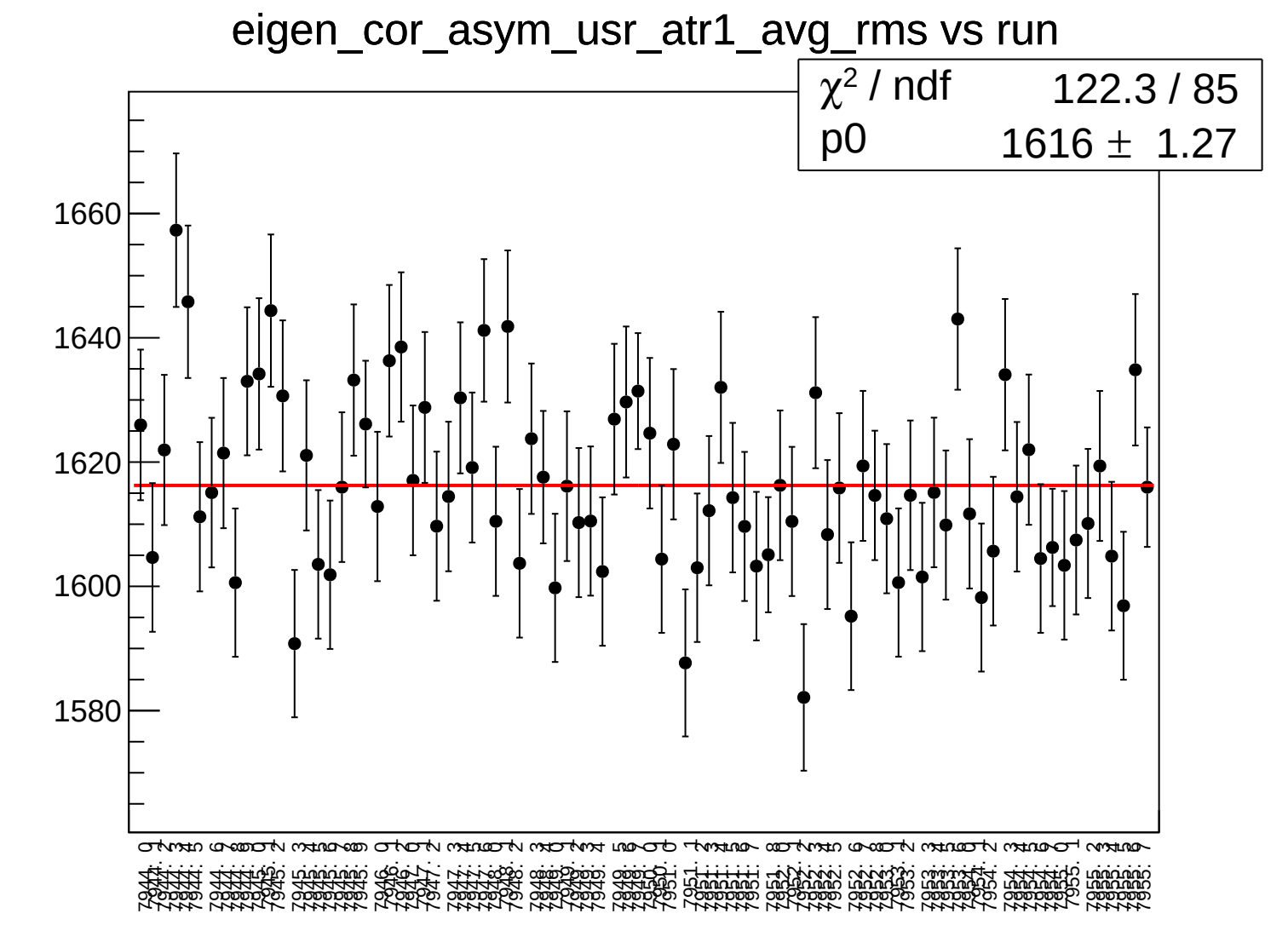

asym_usr_atr1_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.24 / 85
p0 −1108 ± 2316
pull
Entries 86
Mean −504.5
Std Dev 0

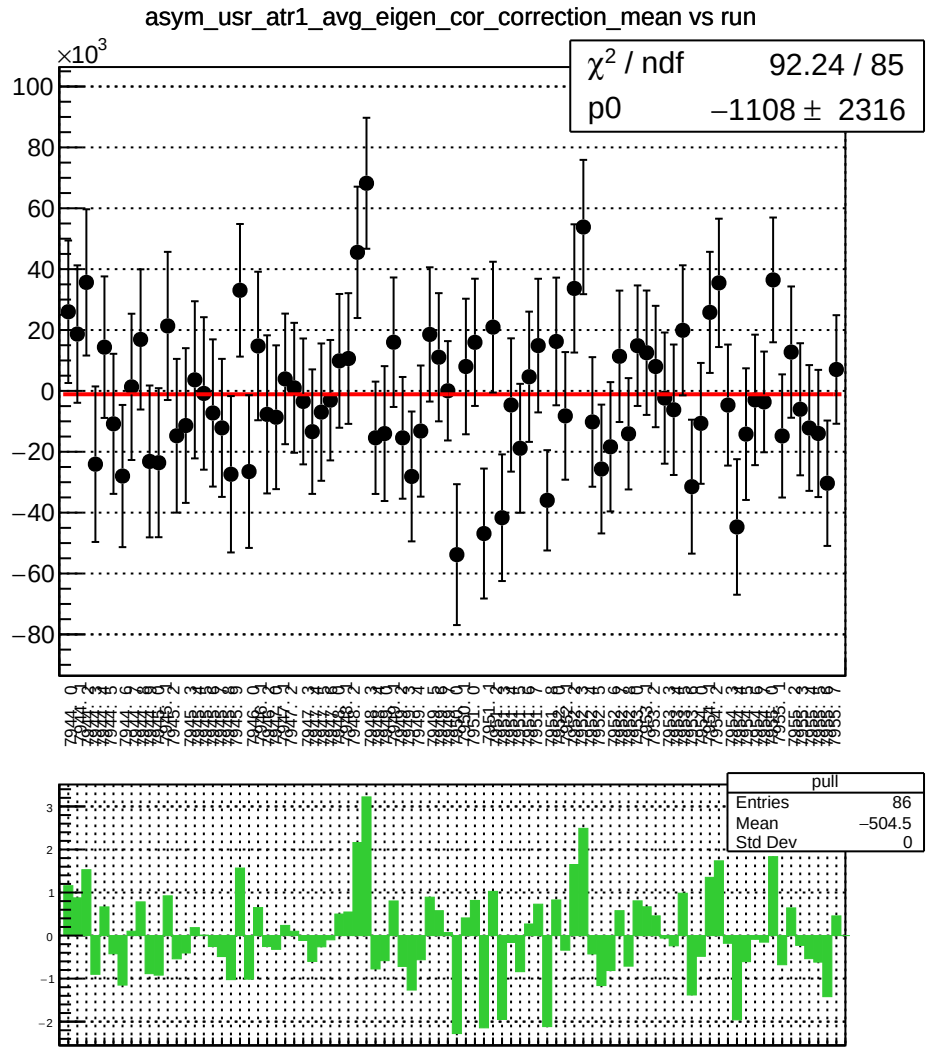

pull1D
Entries 86
Mean 0.002307
Std Dev 1.036

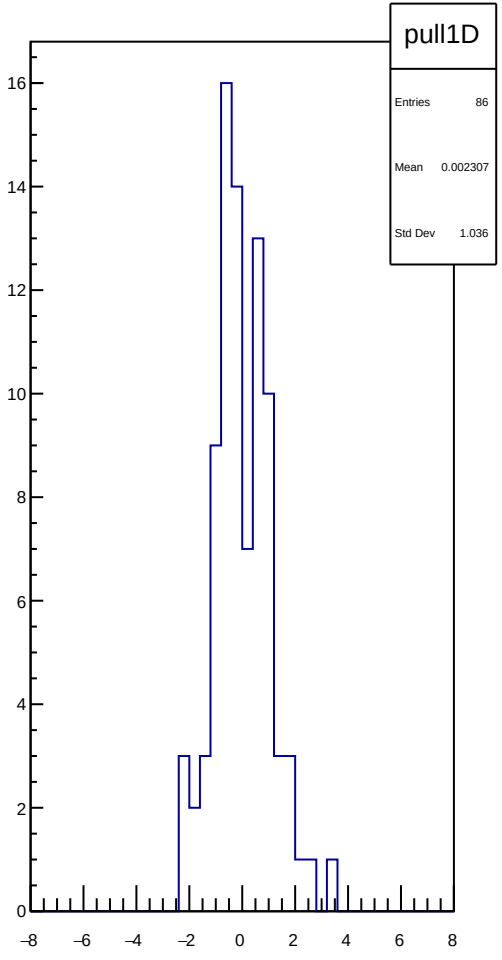

asym_usr_atr1_avg_cor_correction_rms vs run
χ^2 / ndf 8001 / 85
p0 2079 ± 1.638
2500
2400
2300
2200
2100
2000
1900
1800

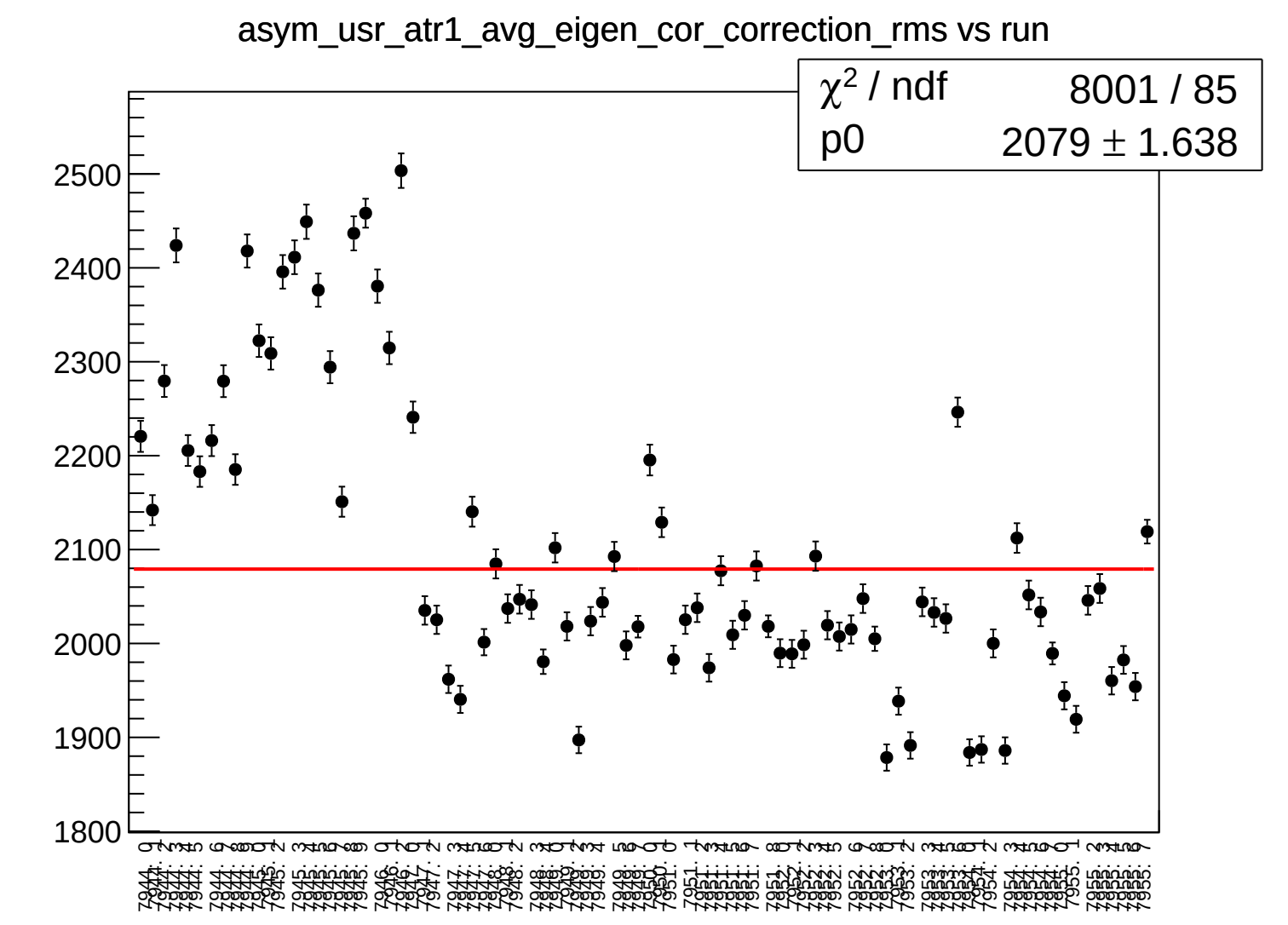

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 80.12 / 85
p0 1287 ± 1796
pull
Entries 86
Mean −1011
Std Dev 0

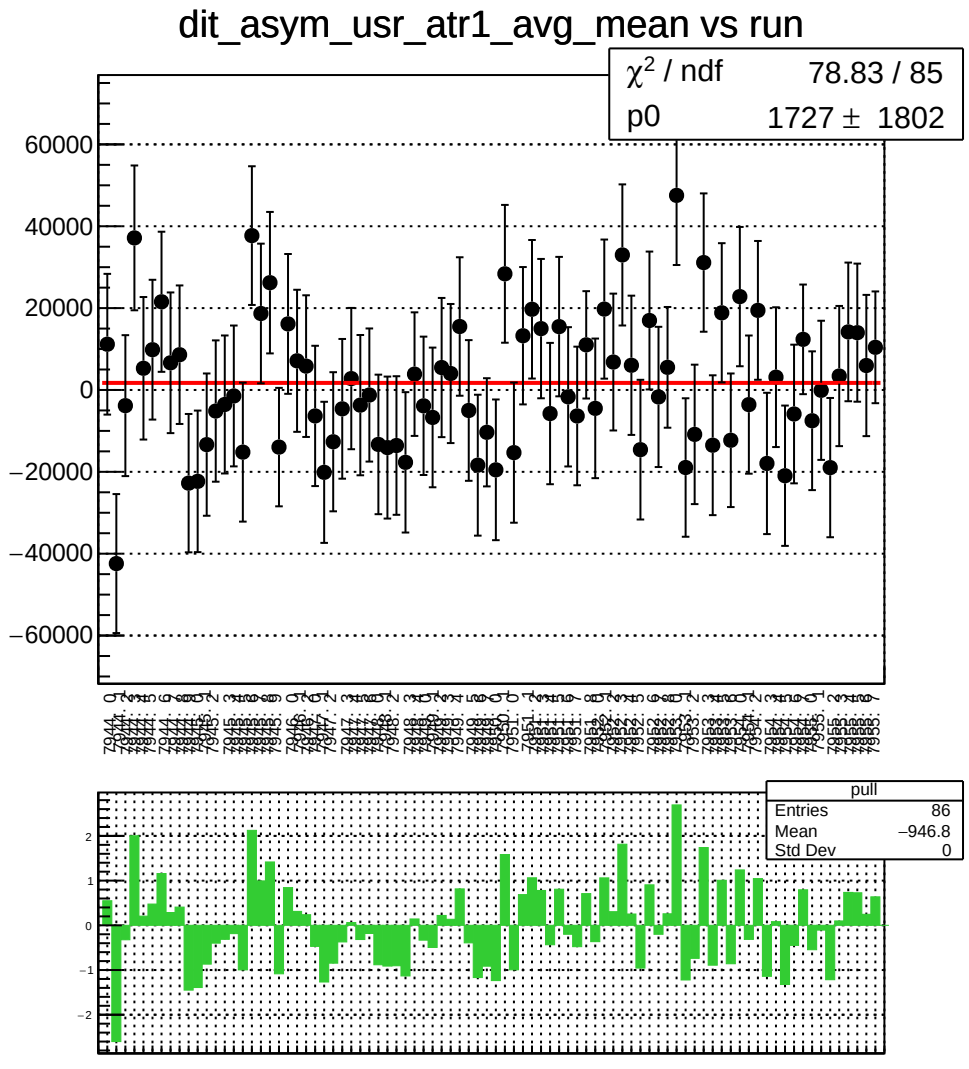

pull1D
Entries 86
Mean −0.002403
Std Dev 0.9652

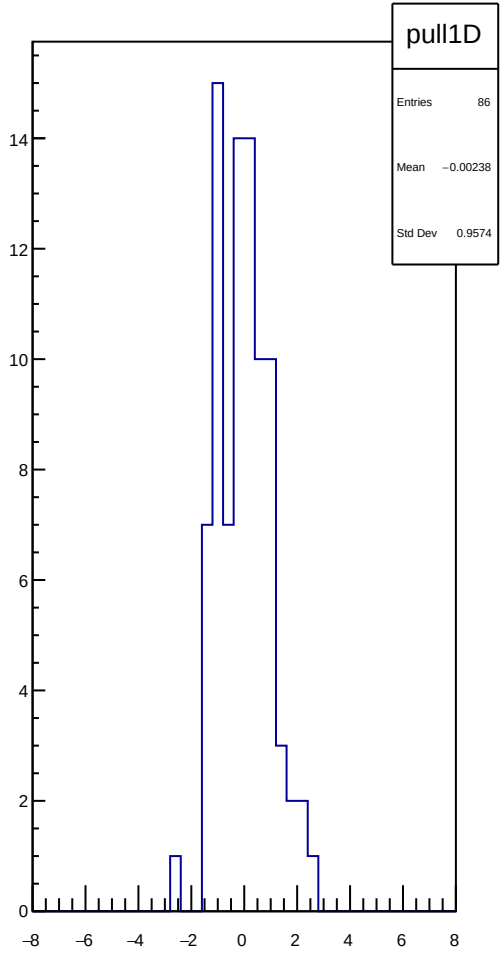

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 122.3 / 85
p0 1616 ± 1.27
1660
1640
1620
1600
1580

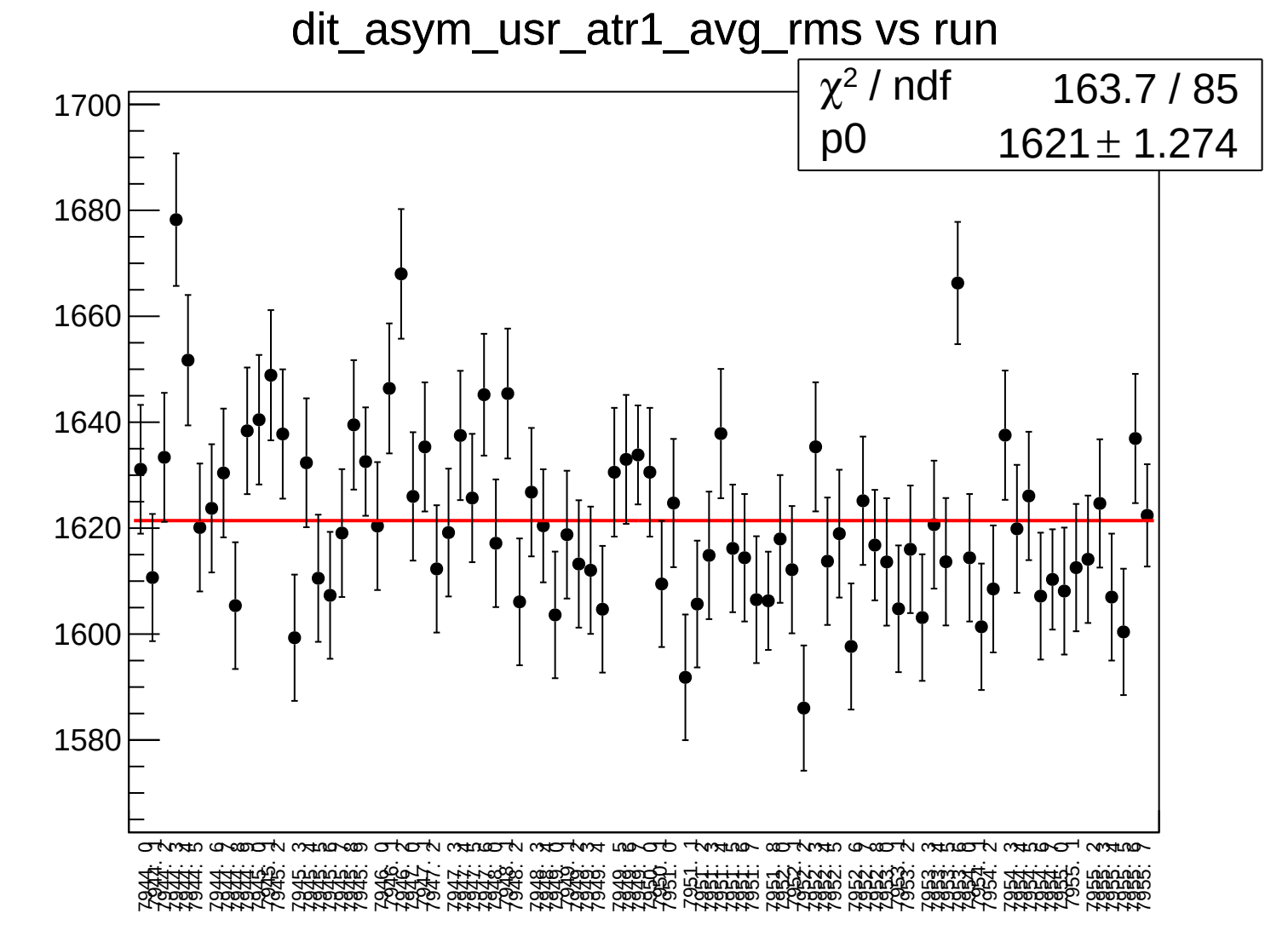

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.24 / 85
p0 −1108 ± 2316
pull
Entries 86
Mean −504.5
Std Dev 0

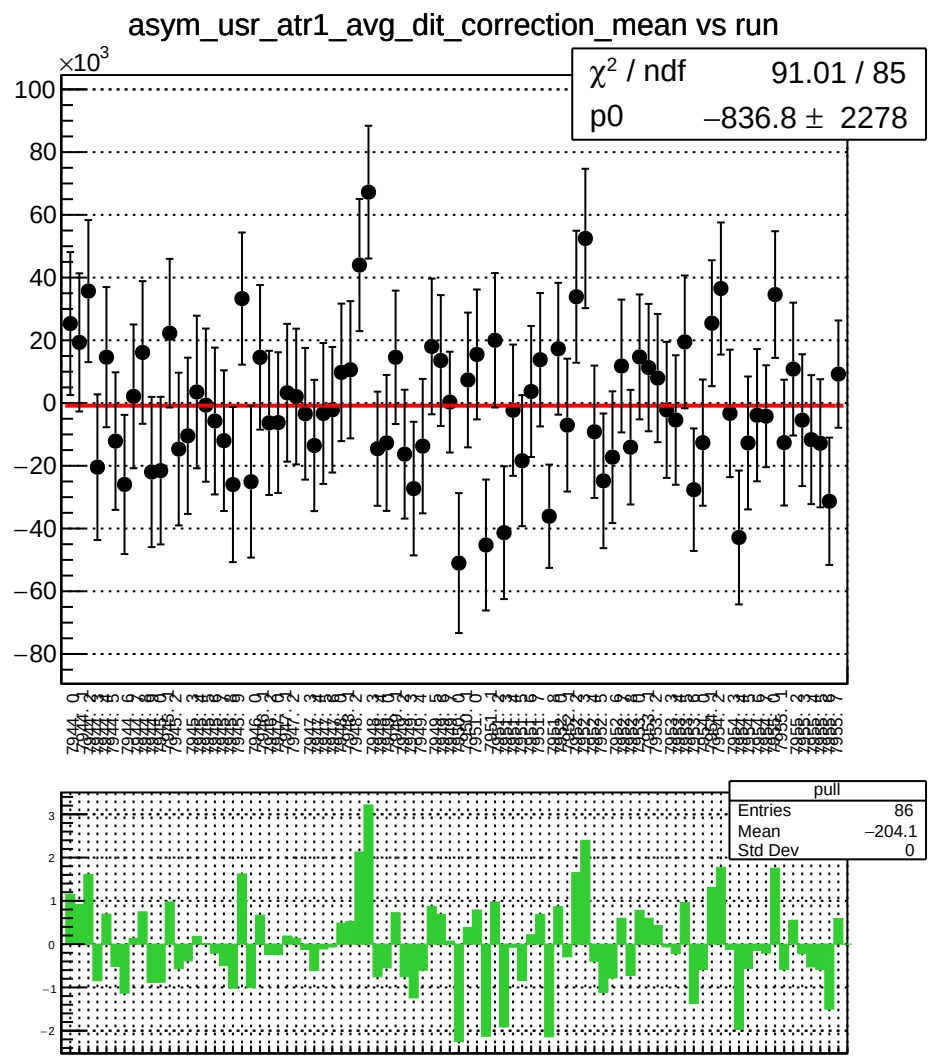

pull1D
Entries 86
Mean 0.002307
Std Dev 1.036

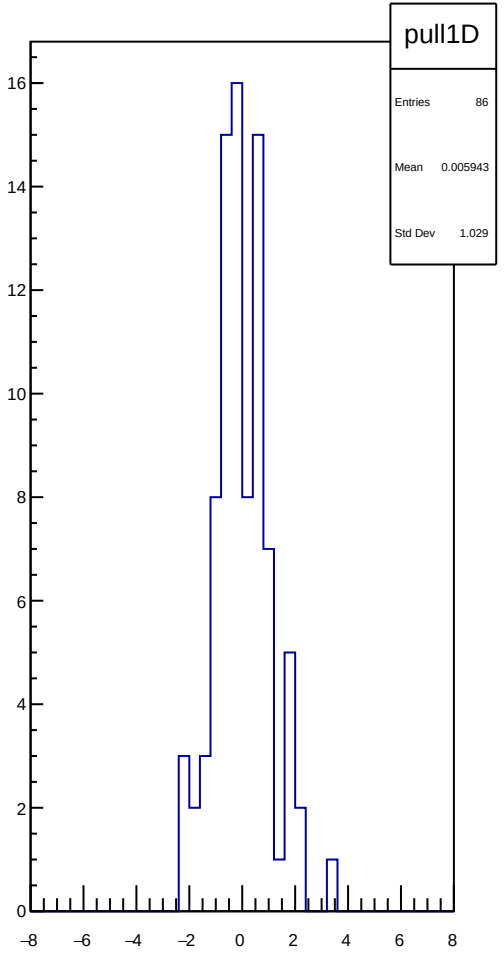

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8001 / 85
p0 2079 ± 1.638
2500
2400
2300
2200
2100
2000
1900
1800

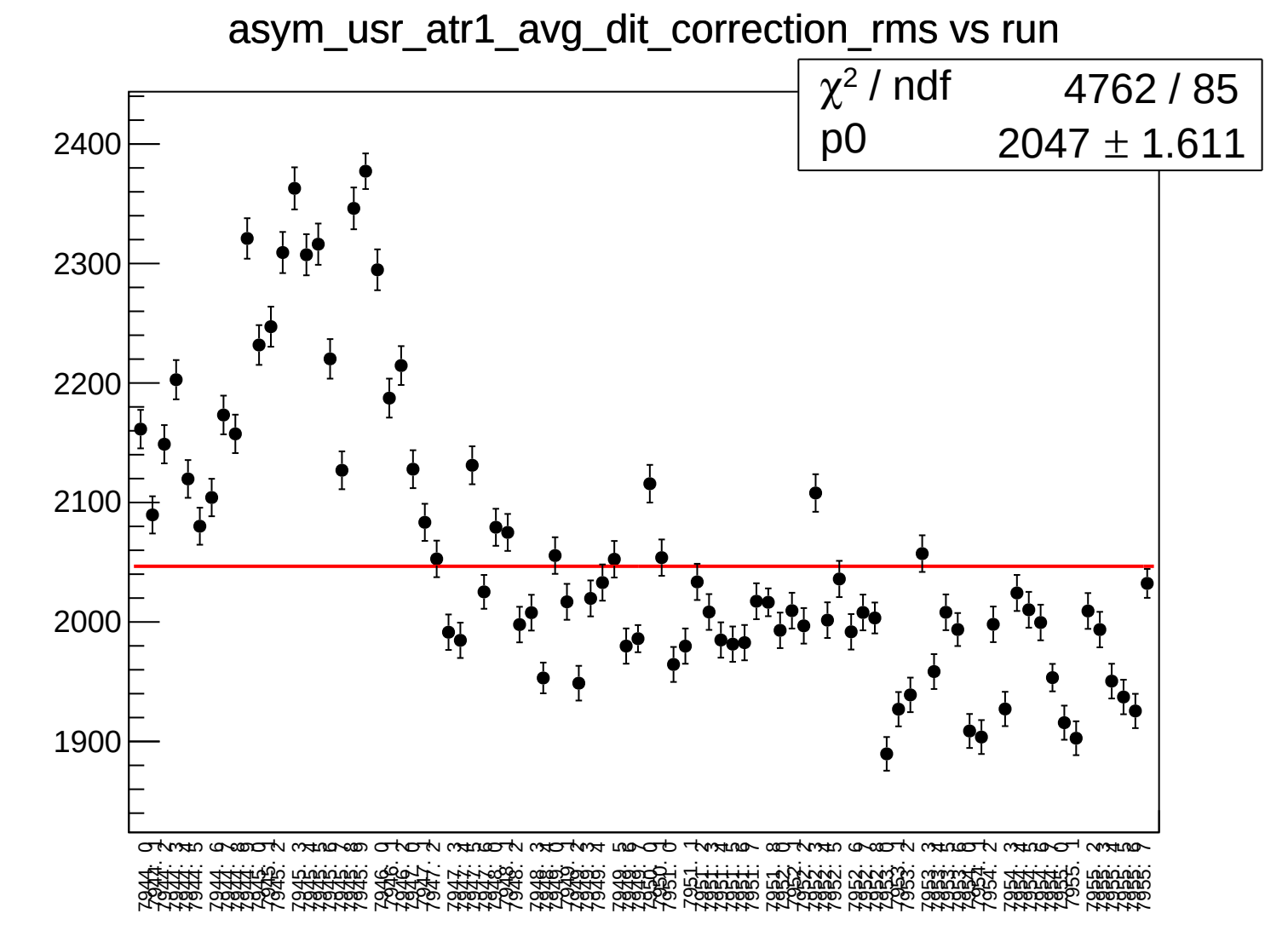

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 78.83 / 85
p0 1727 ± 1802
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −946.8
Std Dev 0
2
1
0
−1
−2

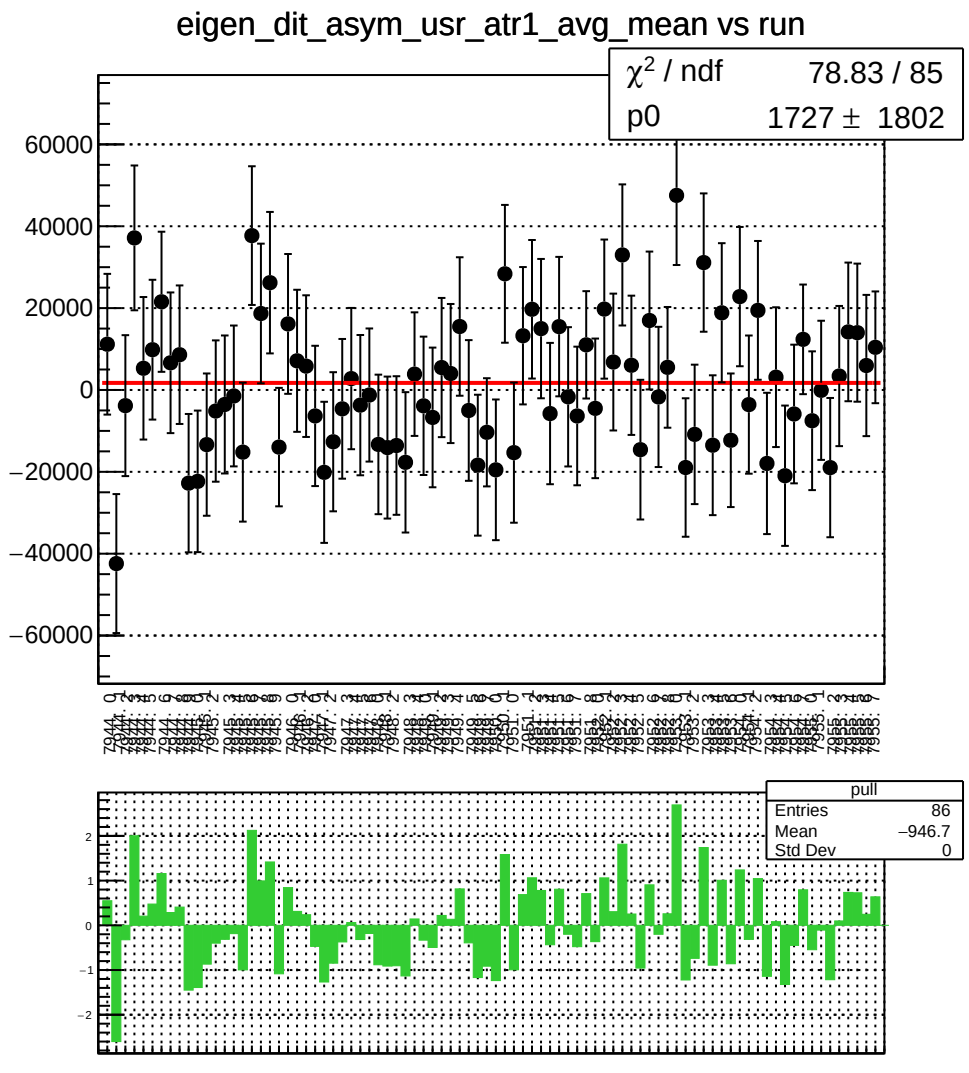

pull1D
Entries 86
Mean −0.00238
Std Dev 0.9574
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

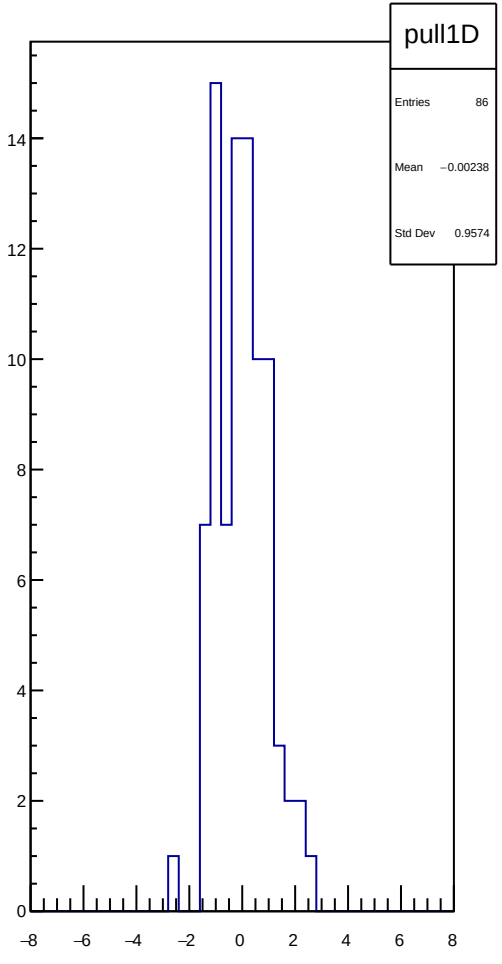

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 163.7 / 85
p0 1621 ± 1.274
1700
1680
1660
1640
1620
1600
1580

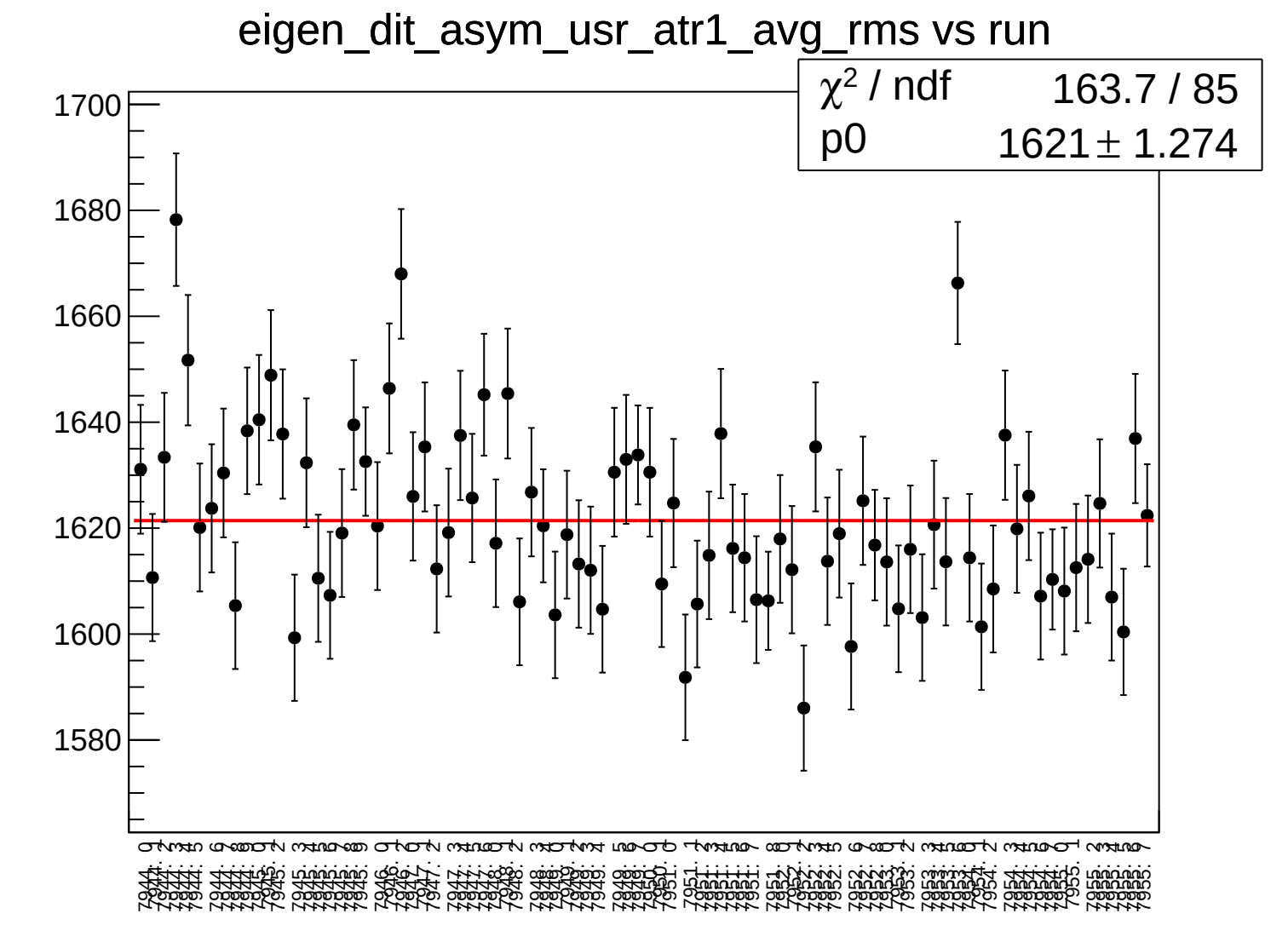

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.01 / 85
p0 −836.8 ± 2278
pull
Entries 86
Mean −204.1
Std Dev 0

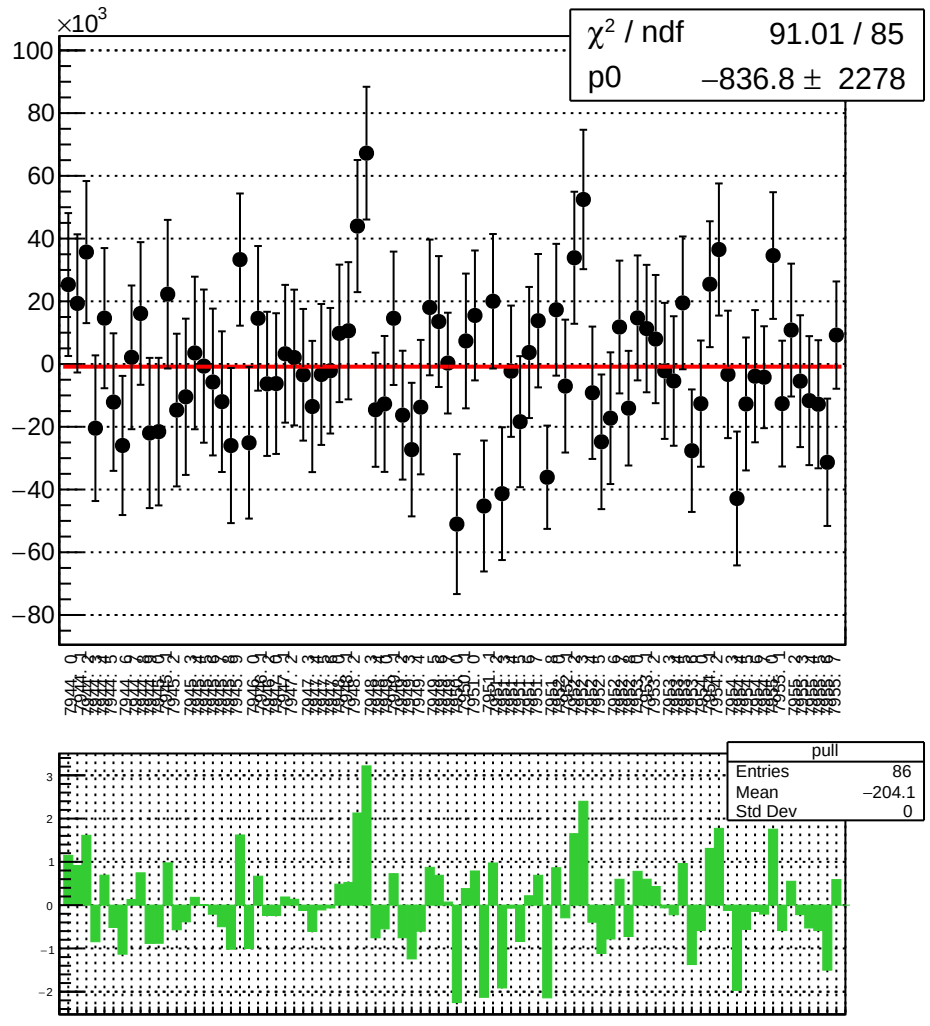

pull1D
Entries 86
Mean 0.005943
Std Dev 1.029

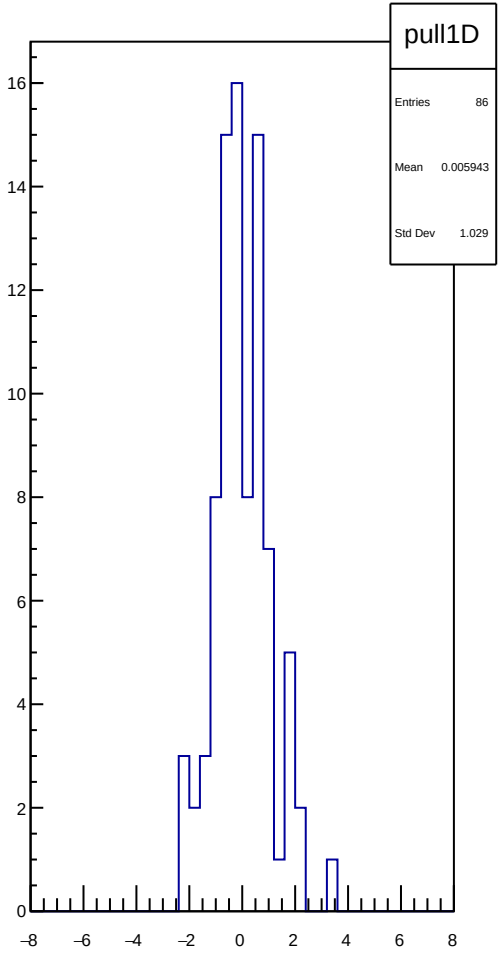

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 4762 / 85
p0 2047 ± 1.611
2400
2300
2200
2100
2000
1900

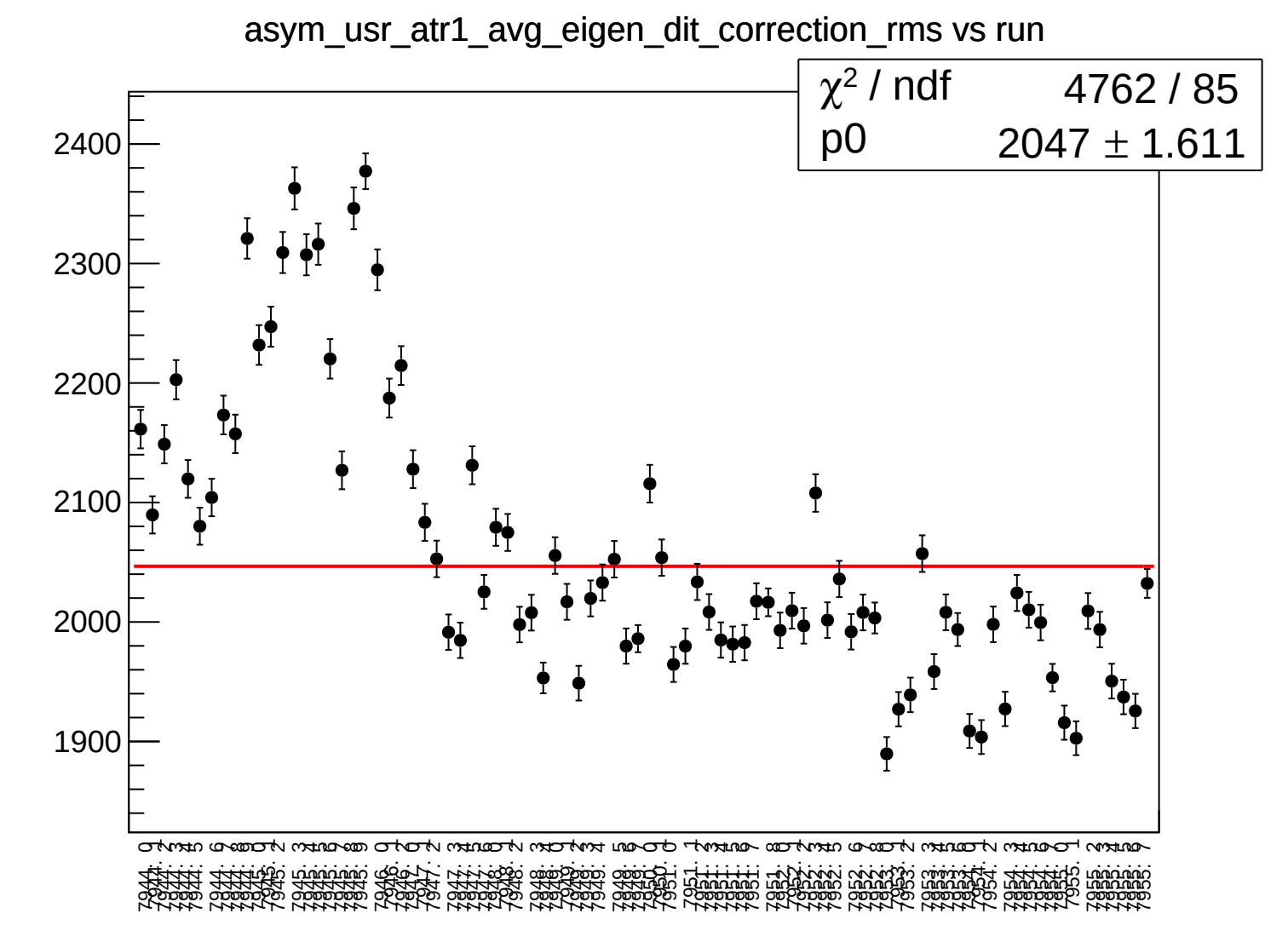

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 78.83 / 85
p0 1727 ± 1802
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −946.7
Std Dev 0
2
1
0
−1
−2

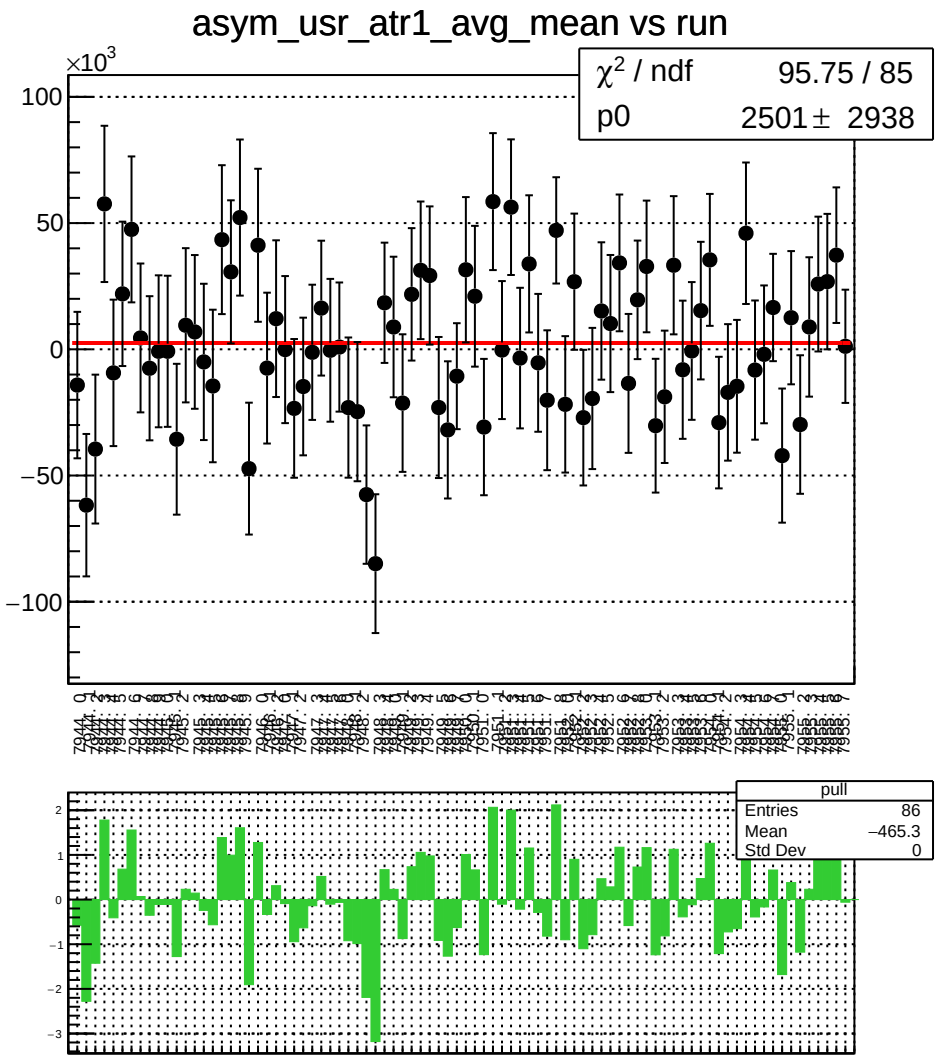

pull1D
Entries 86
Mean −0.00238
Std Dev 0.9574
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

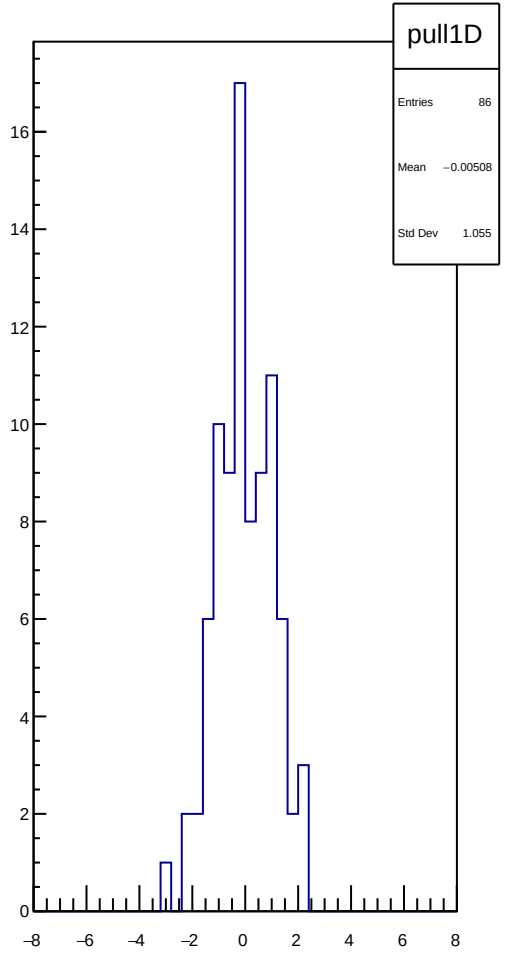

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 163.7 / 85
p0 1621 ± 1.274
1700
1680
1660
1640
1620
1600
1580

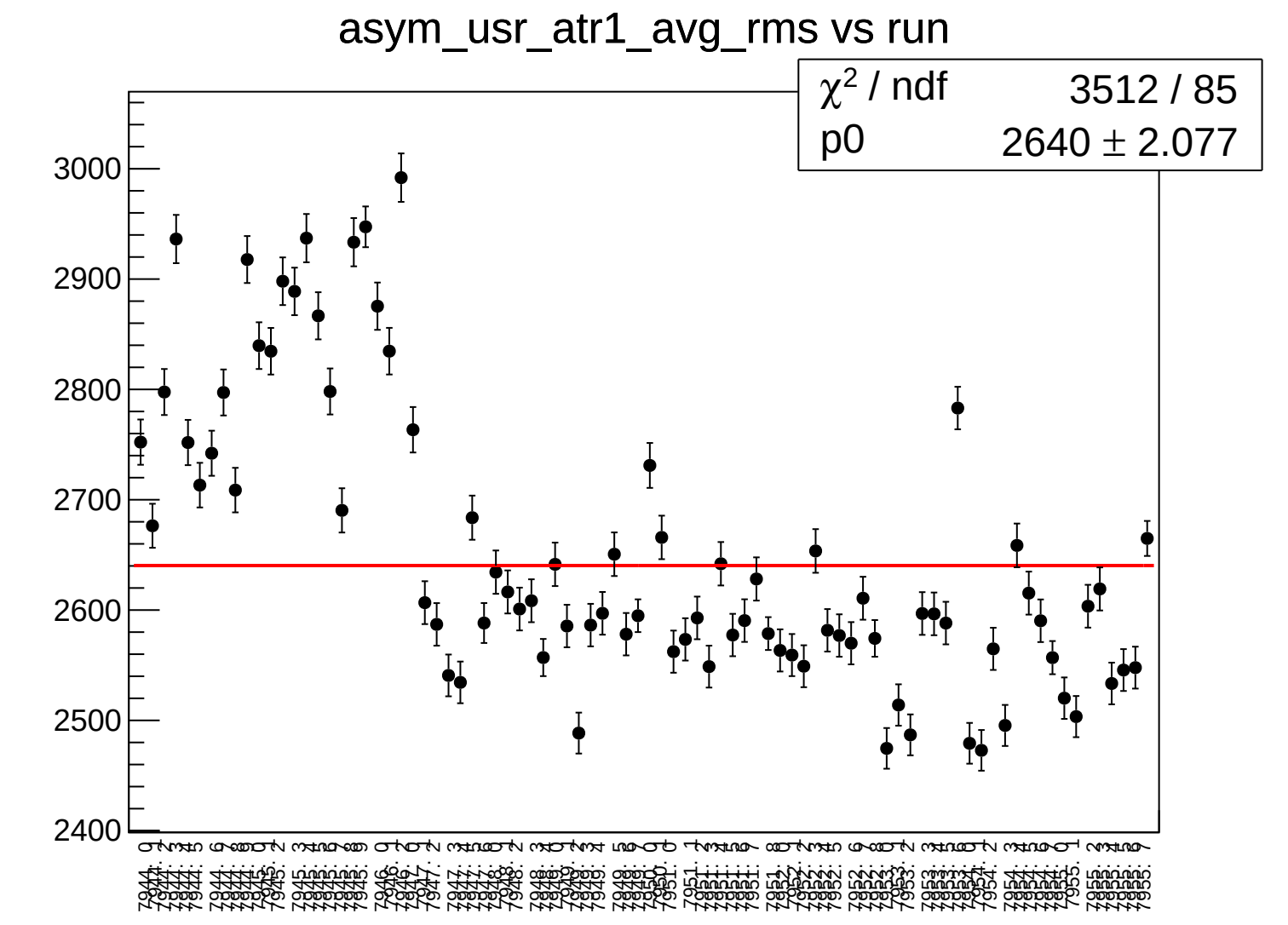

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.01 / 85
p0 −836.8 ± 2278
pull
Entries 86
Mean −204.1
Std Dev 0

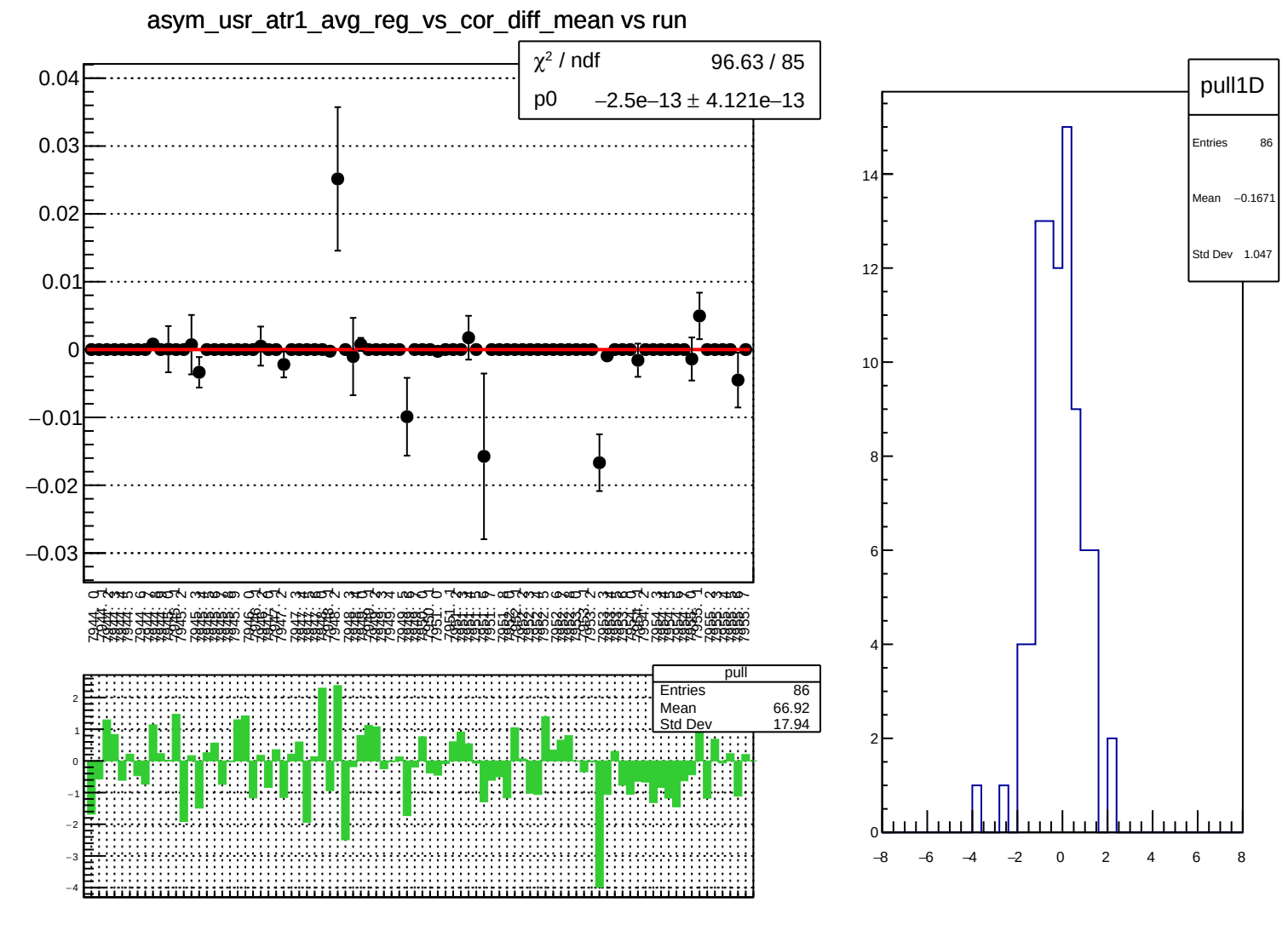

pull1D
Entries 86
Mean 0.005943
Std Dev 1.029

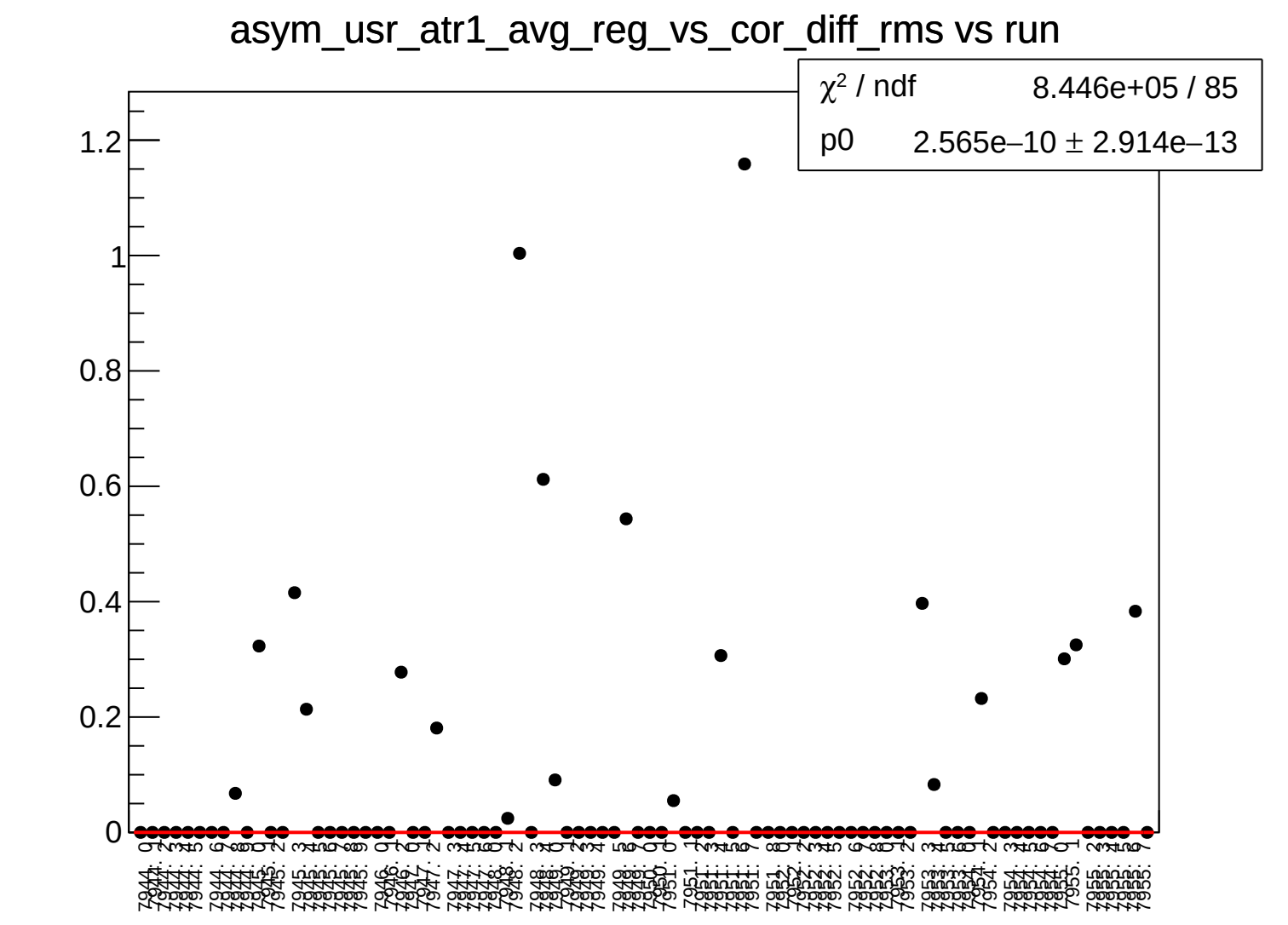

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4762 / 85
p0 2047 ± 1.611
2400
2300
2200
2100
2000
1900

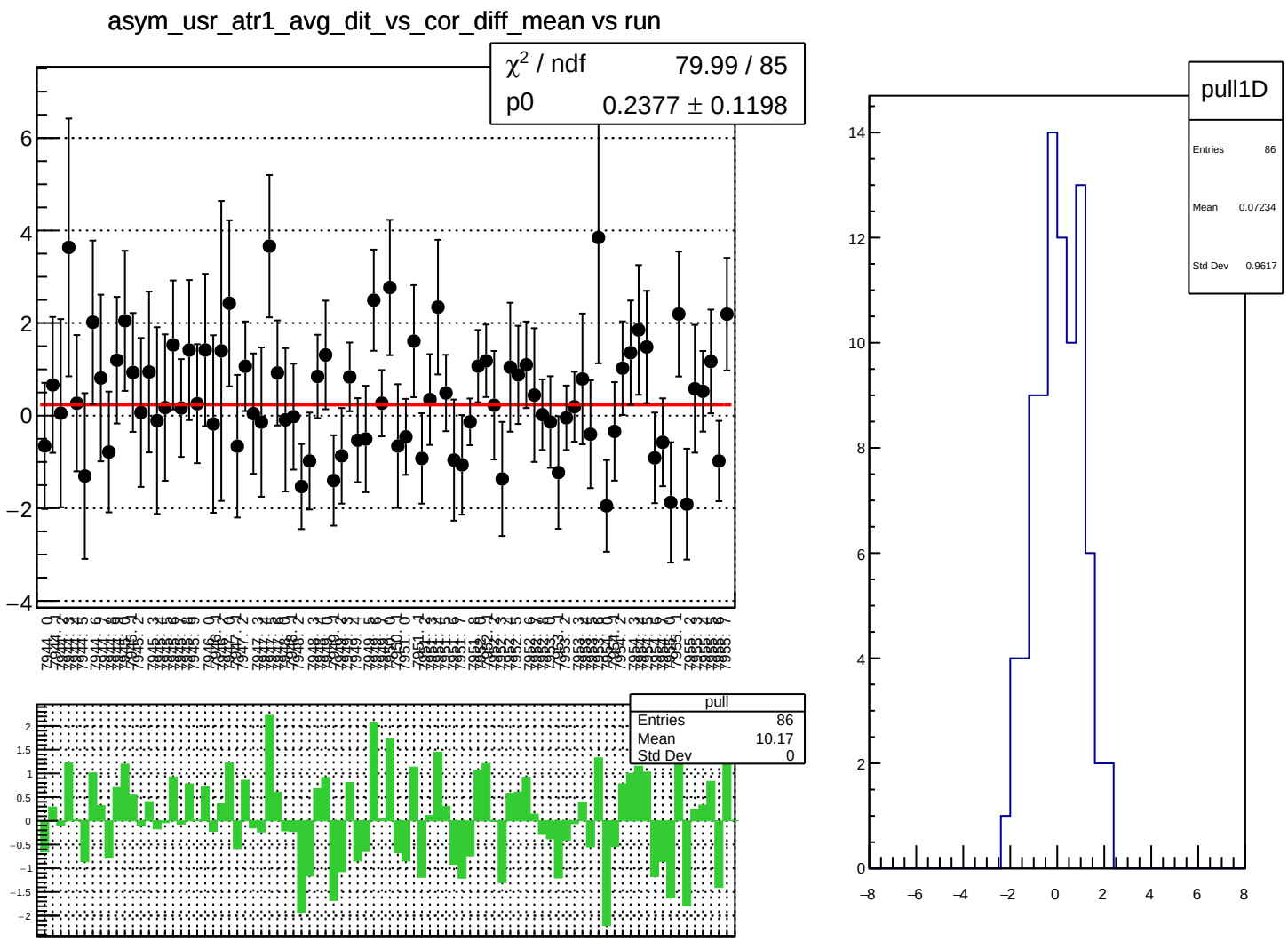

asym_usr_atr1_avg_mean vs run
×10^3
χ^2 / ndf 95.75 / 85
p0 2501 ± 2938
100
50
0
−50
−100
pull
Entries 86
Mean −465.3
Std Dev 0
2
1
0
−1
−2
−3

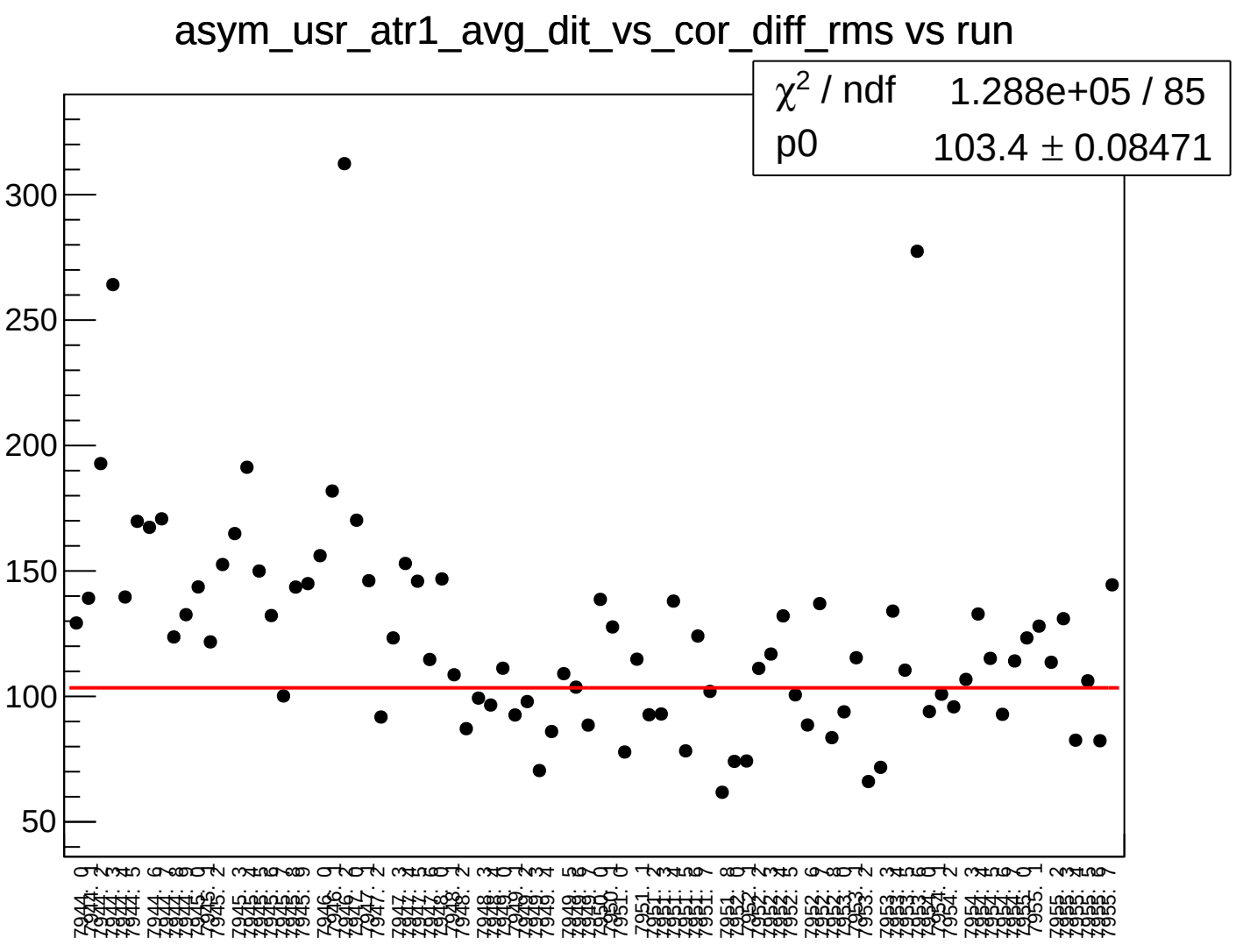

pull1D
Entries 86
Mean −0.00508
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

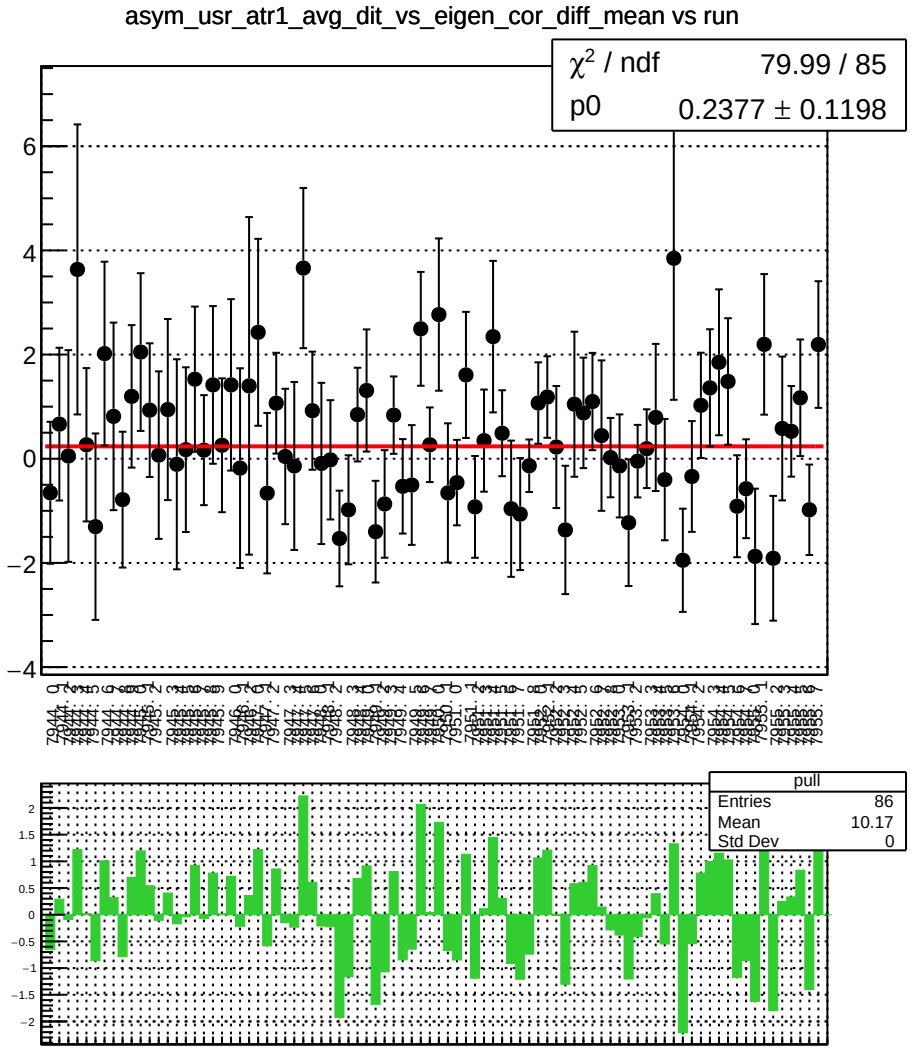

asym_usr_atr1_avg_rms vs run
χ² / ndf 3512 / 85
p0 2640 ± 2.077
3000
2900
2800
2700
2600
2500
2400

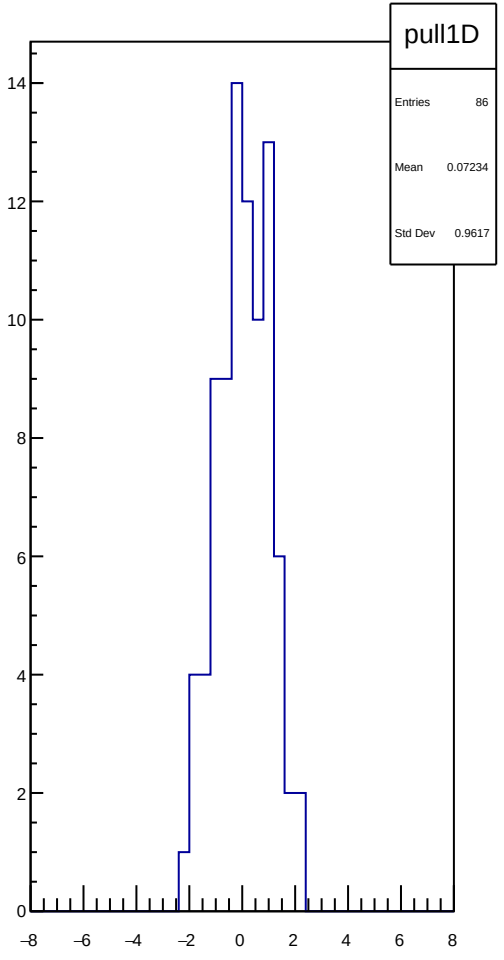

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.63 / 85
p0 −2.5e−13 ± 4.121e−13
pull
Entries 86
Mean 66.92
Std Dev 17.94
pull1D
Entries 86
Mean −0.1671
Std Dev 1.047

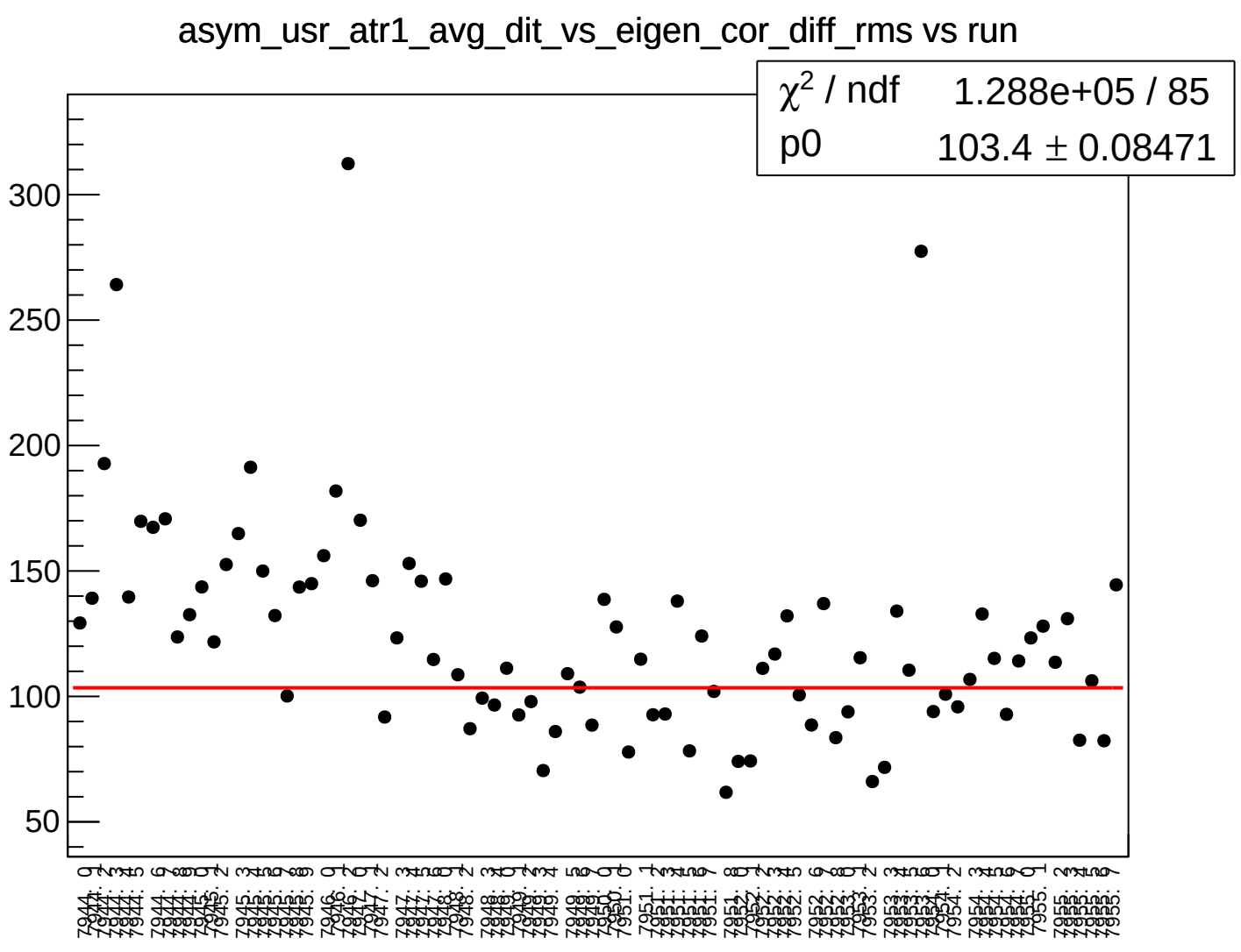

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.446e+05 / 85
p0 2.565e−10 ± 2.914e−13
1.2
1
0.8
0.6
0.4
0.2
0

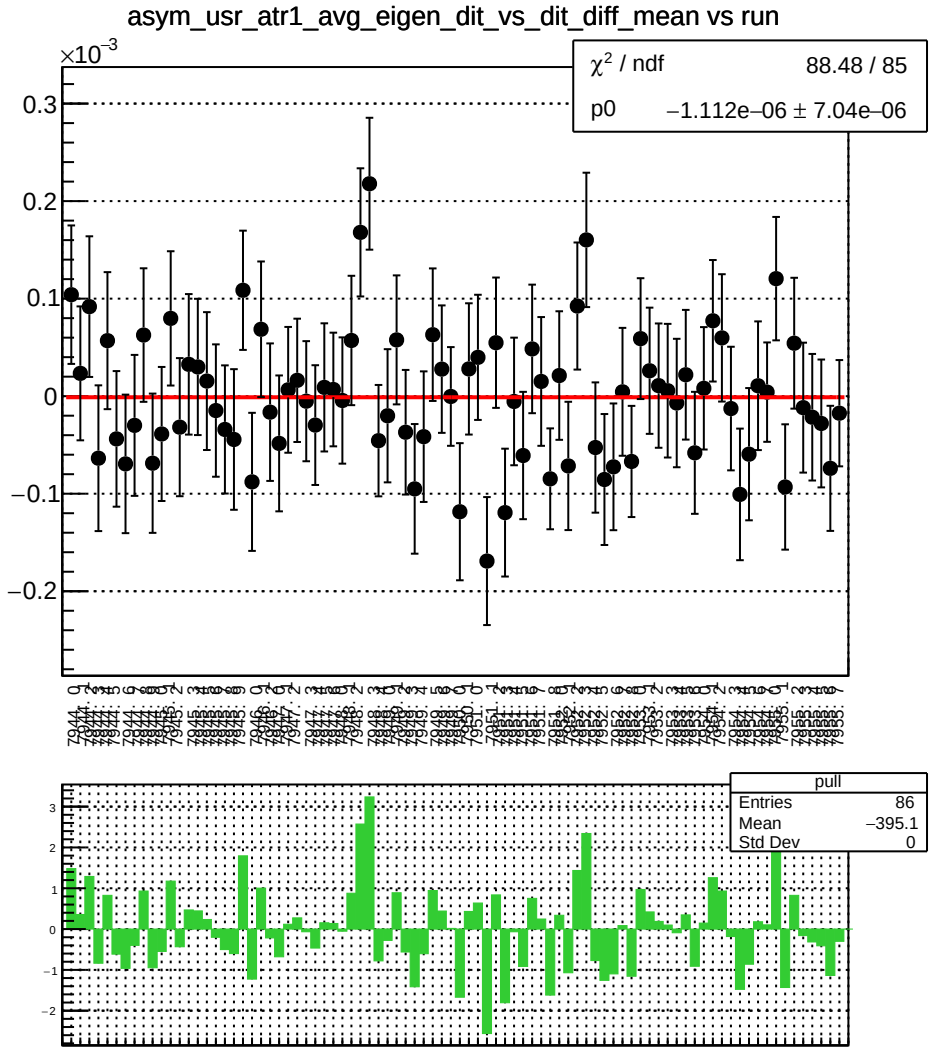

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.99 / 85
p0 0.2377 ± 0.1198
pull
Entries 86
Mean 10.17
Std Dev 0
pull1D
Entries 86
Mean 0.07234
Std Dev 0.9617

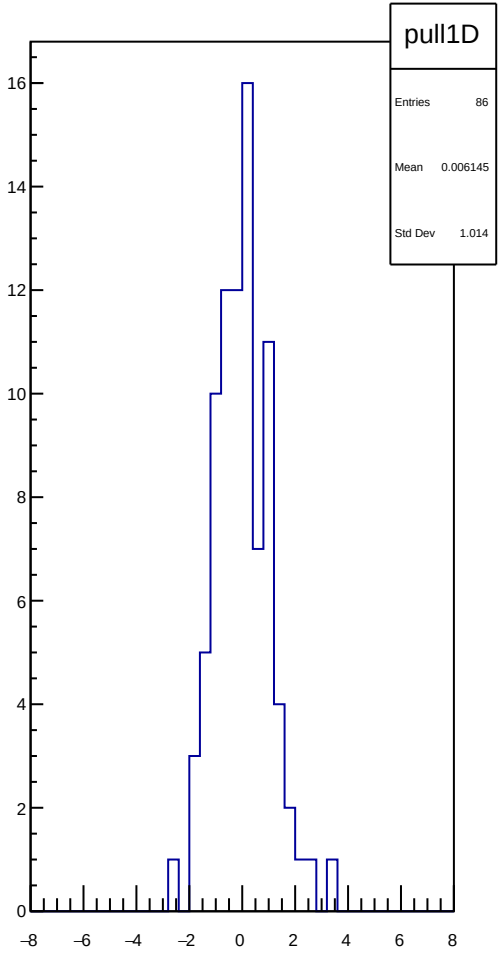

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.288e+05 / 85
p0 103.4 ± 0.08471
300
250
200
150
100
50

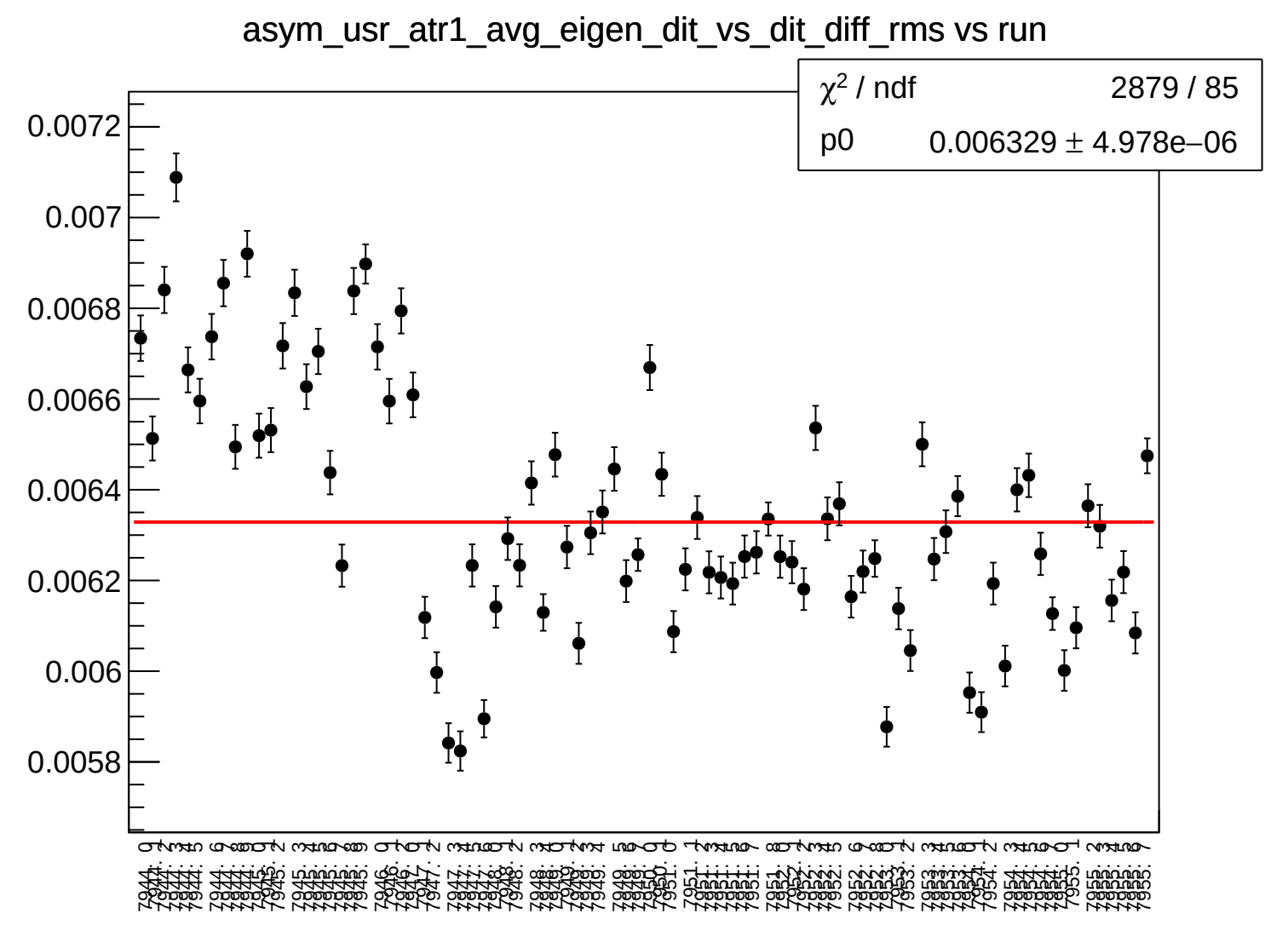

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.99 / 85
p0 0.2377 ± 0.1198
pull
Entries 86
Mean 10.17
Std Dev 0

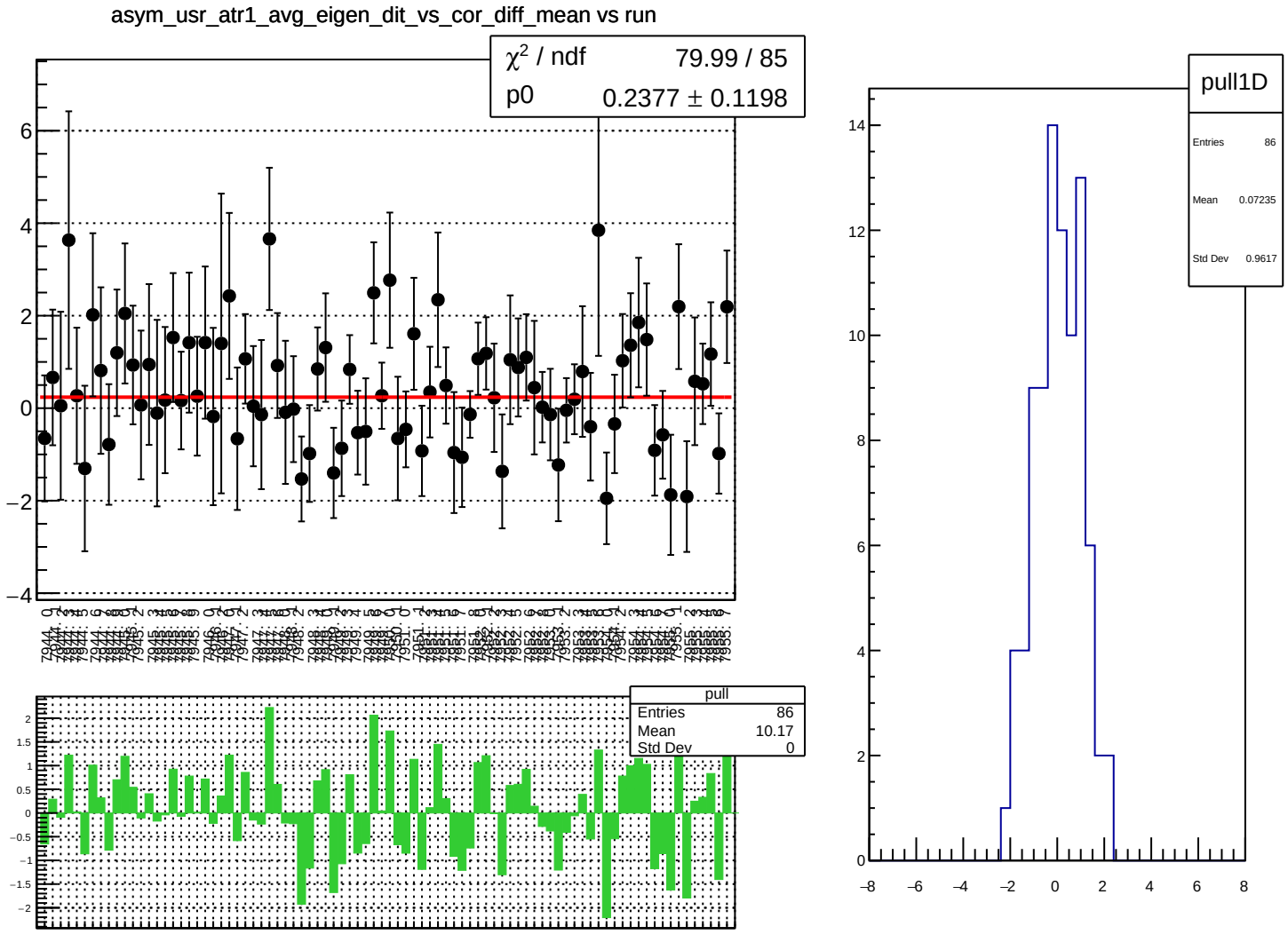

pull1D
Entries 86
Mean 0.07234
Std Dev 0.9617

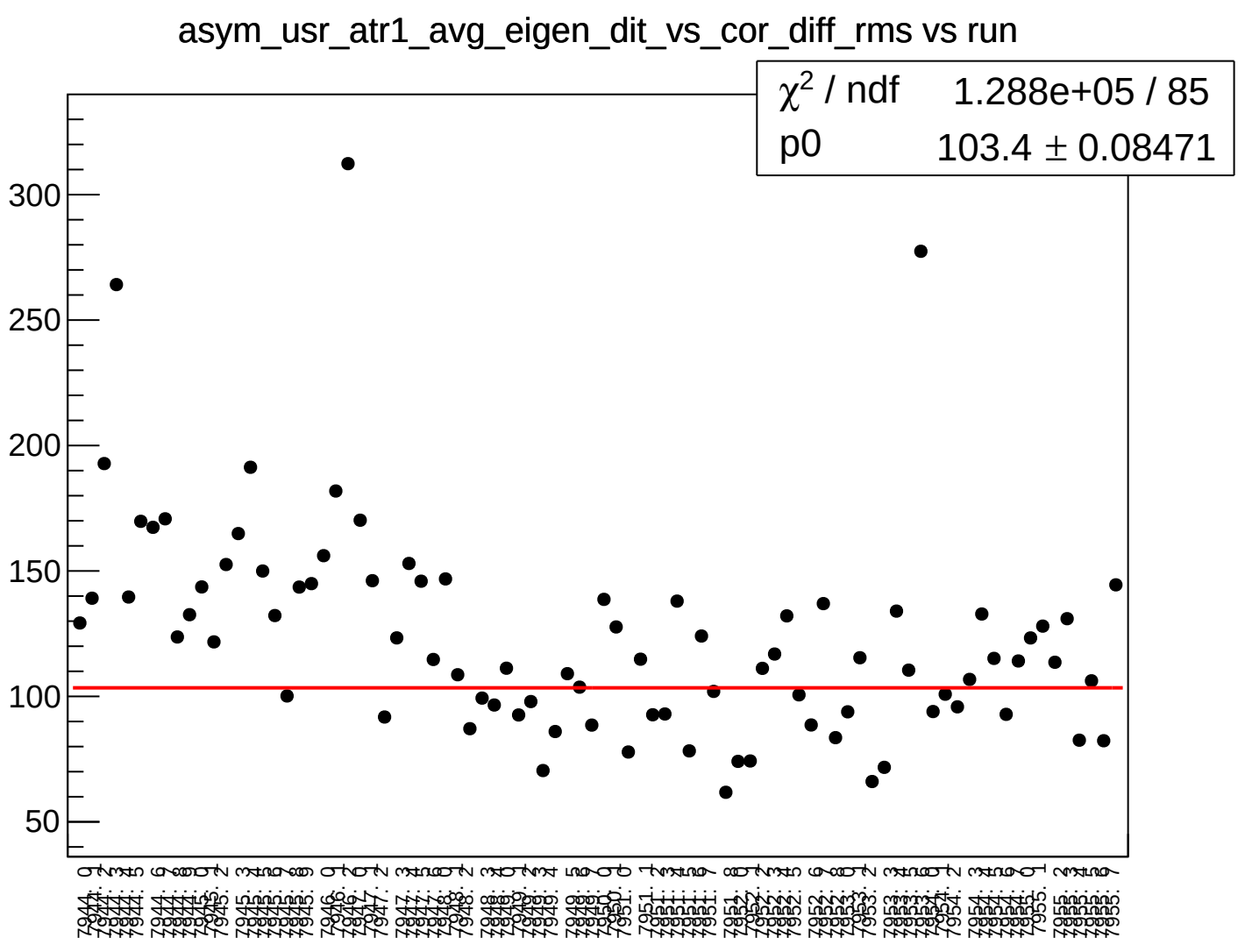

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.288e+05 / 85
p0 103.4 ± 0.08471
300
250
200
150
100
50

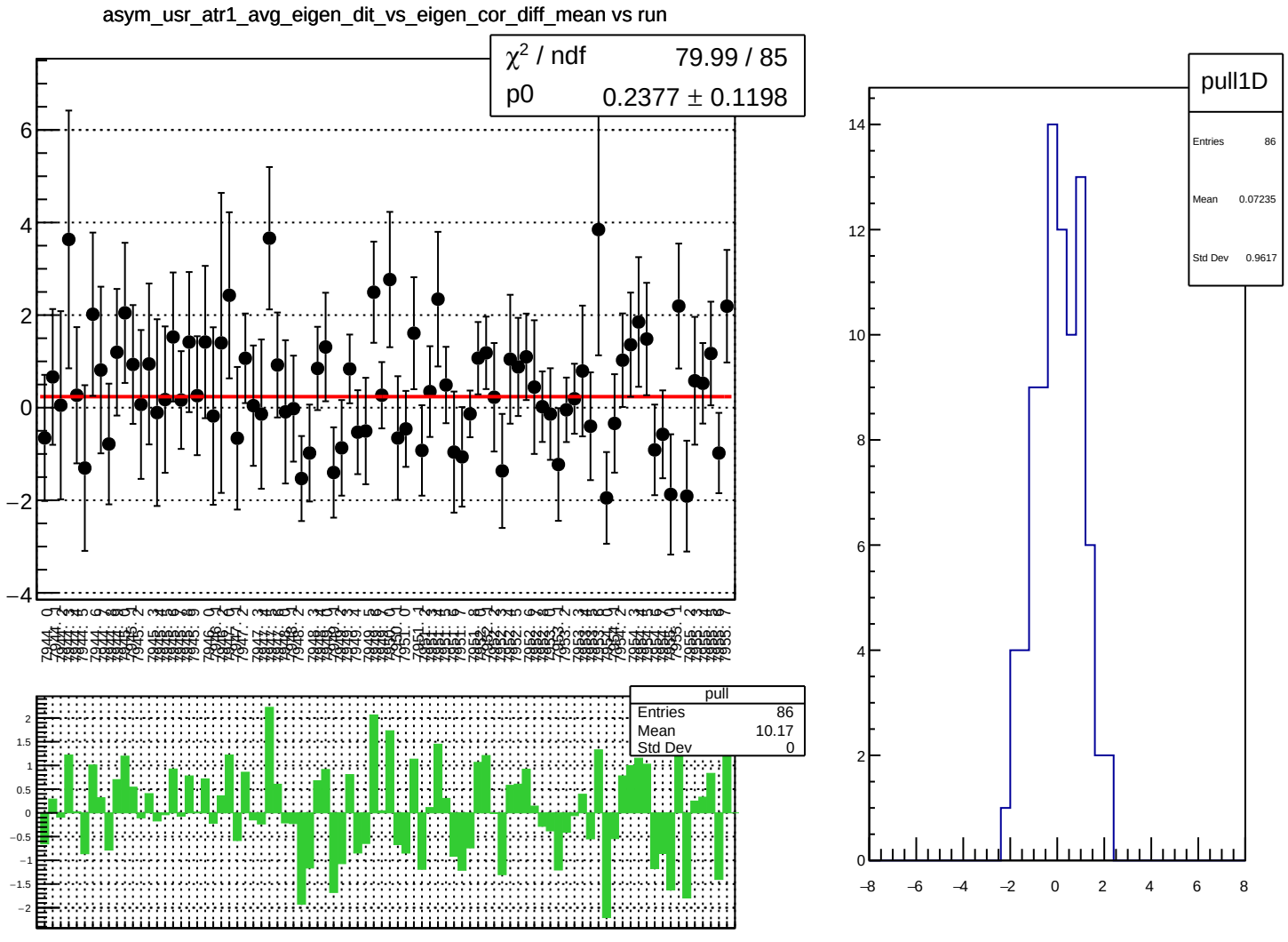

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.48 / 85
p0 −1.112e−06 ± 7.04e−06
pull
Entries 86
Mean −395.1
Std Dev 0

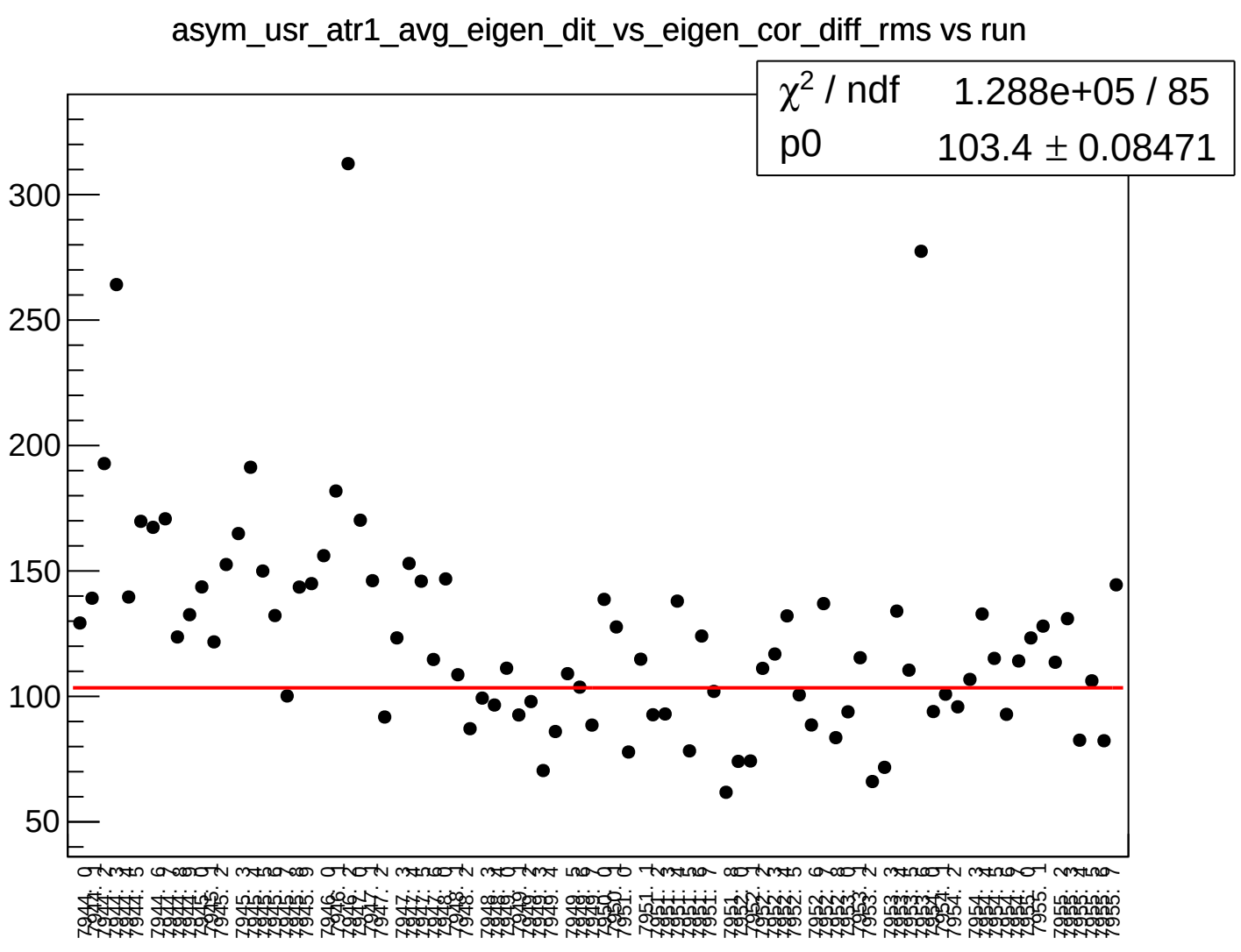

pull1D
Entries 86
Mean 0.006145
Std Dev 1.014

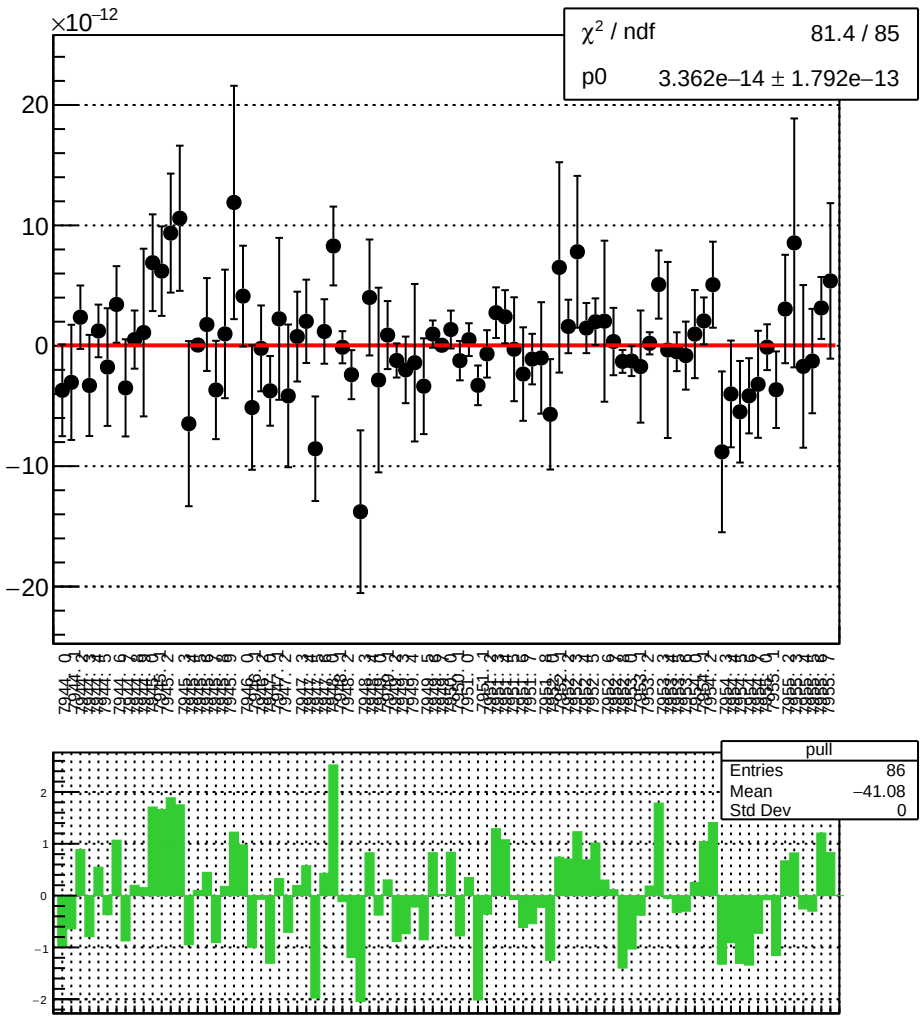

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2879 / 85
p0 0.006329 ± 4.978e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058

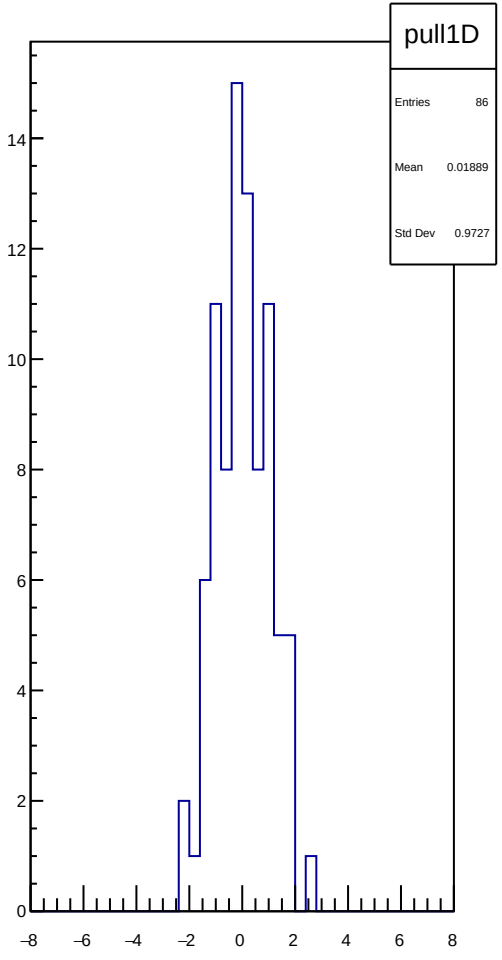

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.99 / 85
p0 0.2377 ± 0.1198
pull
Entries 86
Mean 10.17
Std Dev 0
pull1D
Entries 86
Mean 0.07235
Std Dev 0.9617

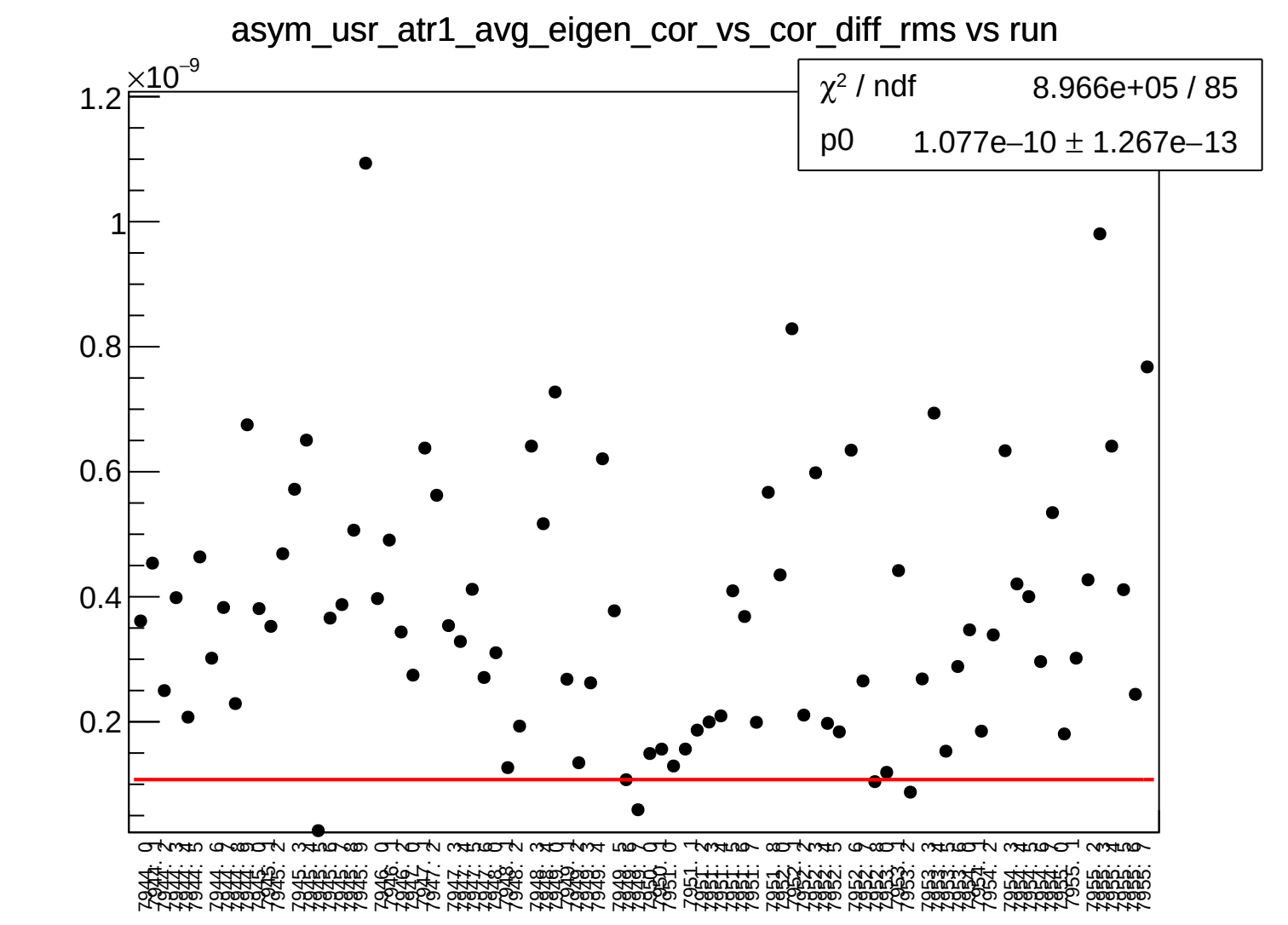

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.288e+05 / 85
p0 103.4 ± 0.08471
300
250
200
150
100
50

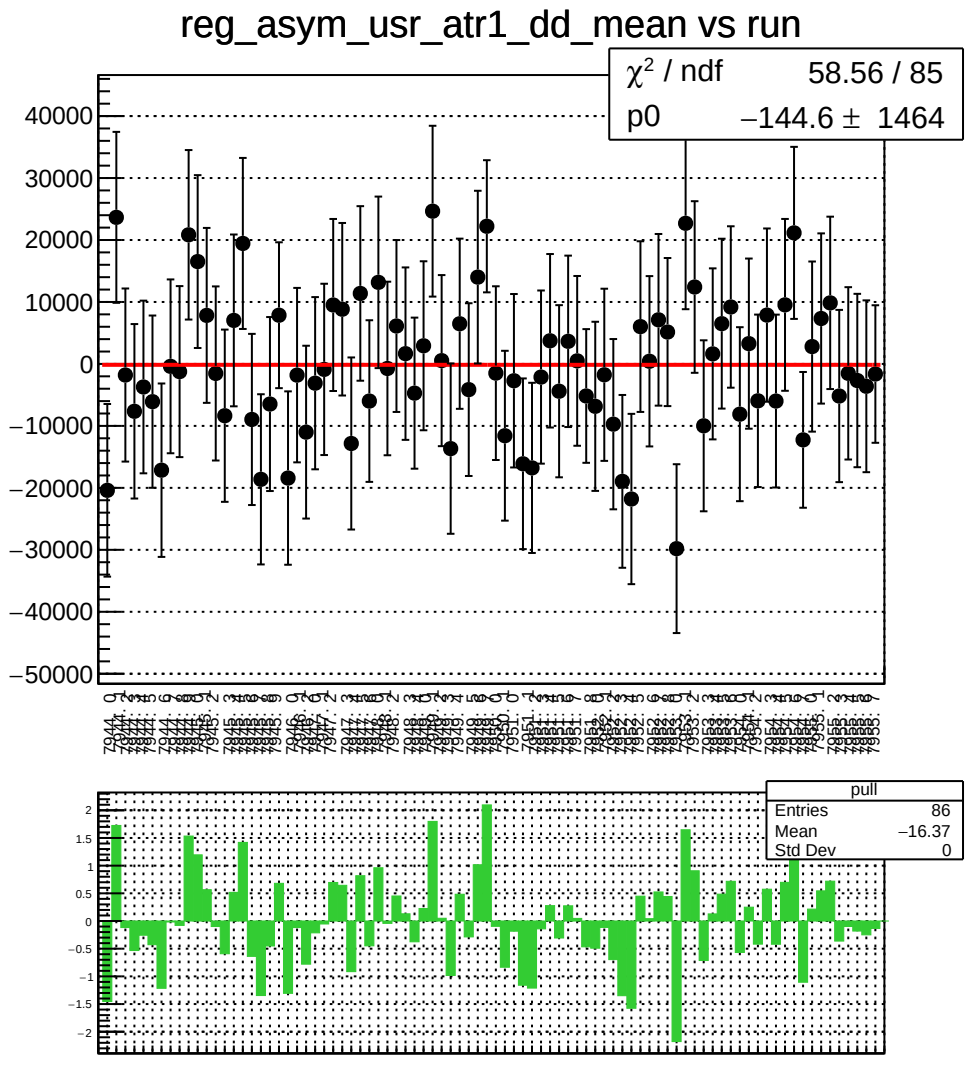

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.99 / 85
p0 0.2377 ± 0.1198
pull
Entries 86
Mean 10.17
Std Dev 0
pull1D
Entries 86
Mean 0.07235
Std Dev 0.9617

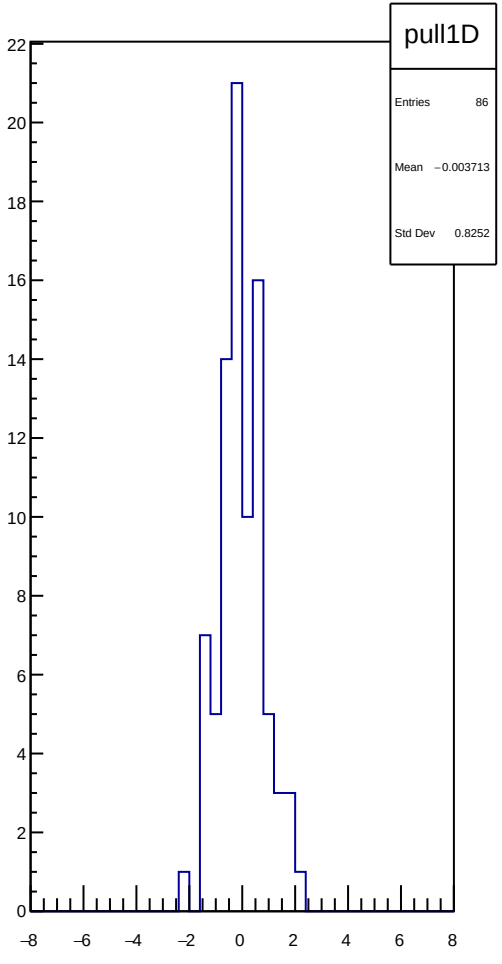

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.288e+05 / 85
p0 103.4 ± 0.08471
300
250
200
150
100
50

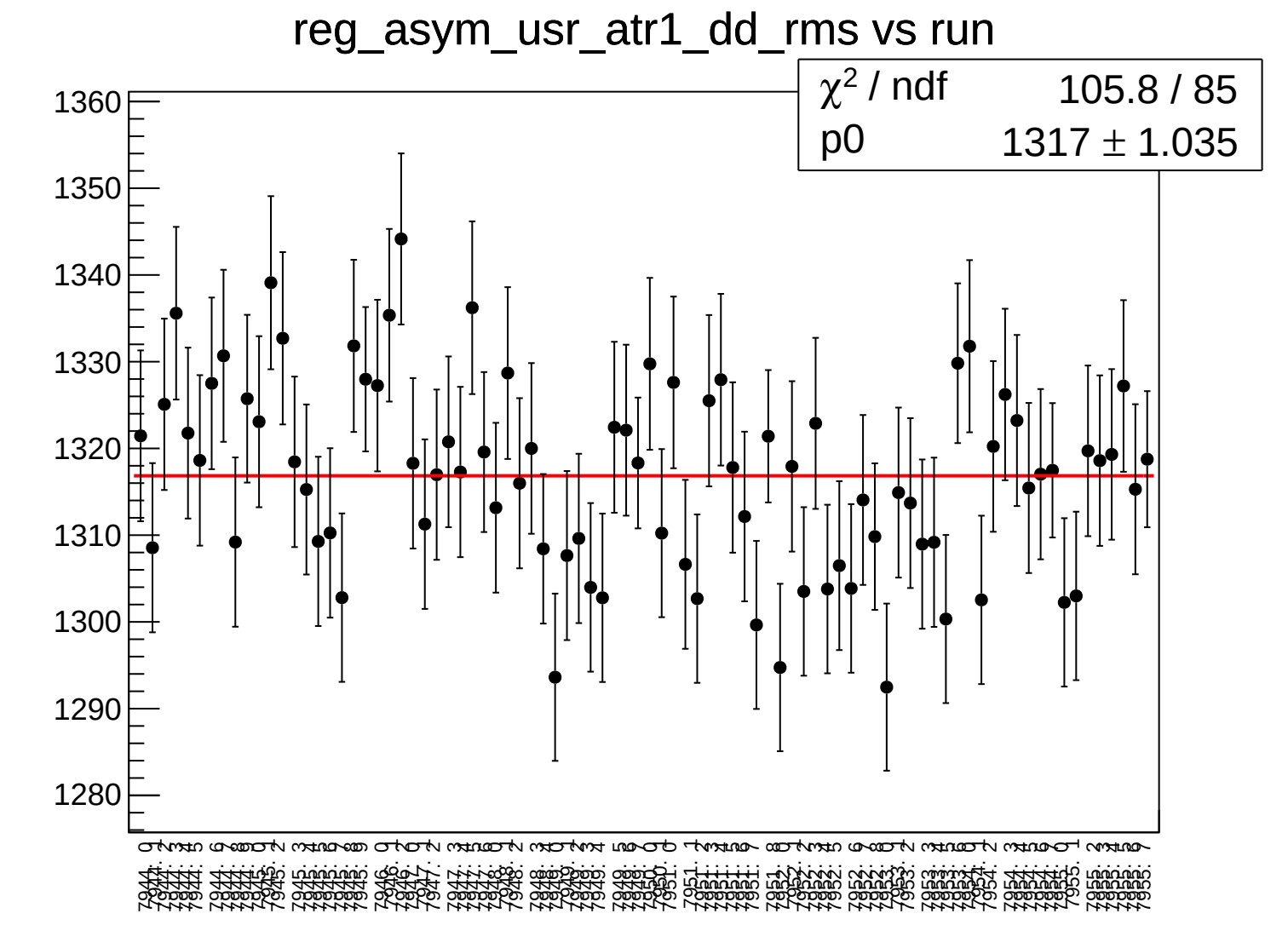

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.4 / 85
p0 3.362e−14 ± 1.792e−13
pull
Entries 86
Mean −41.08
Std Dev 0

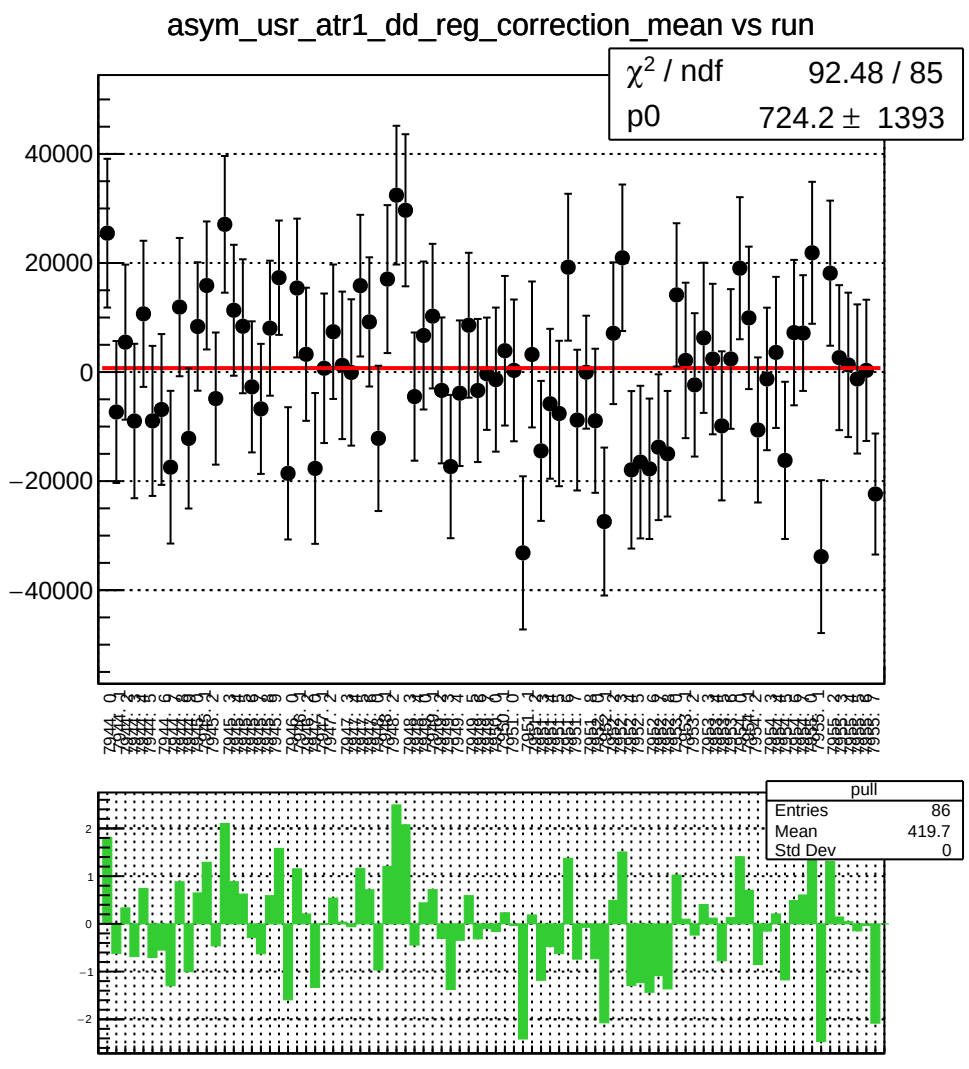

pull1D
Entries 86
Mean 0.01889
Std Dev 0.9727

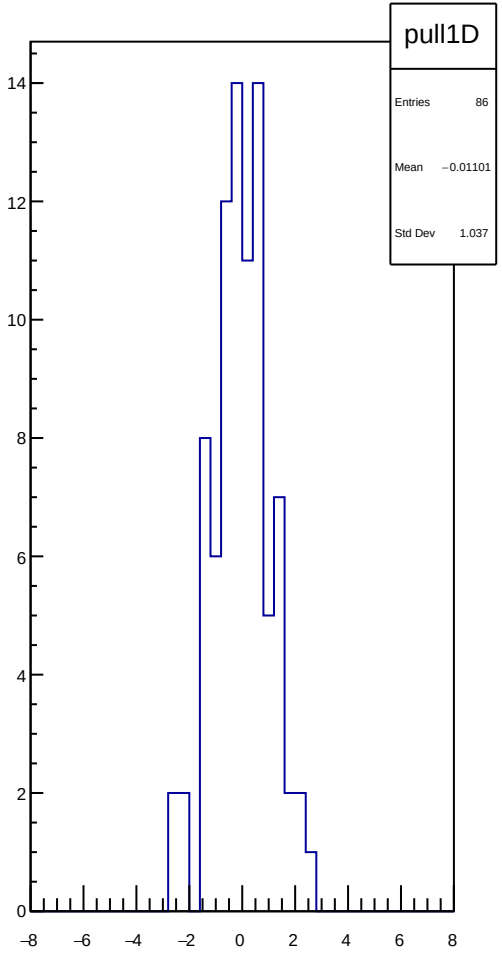

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.966e+05 / 85
p0 1.077e−10 ± 1.267e−13
1.2
1
0.8
0.6
0.4
0.2

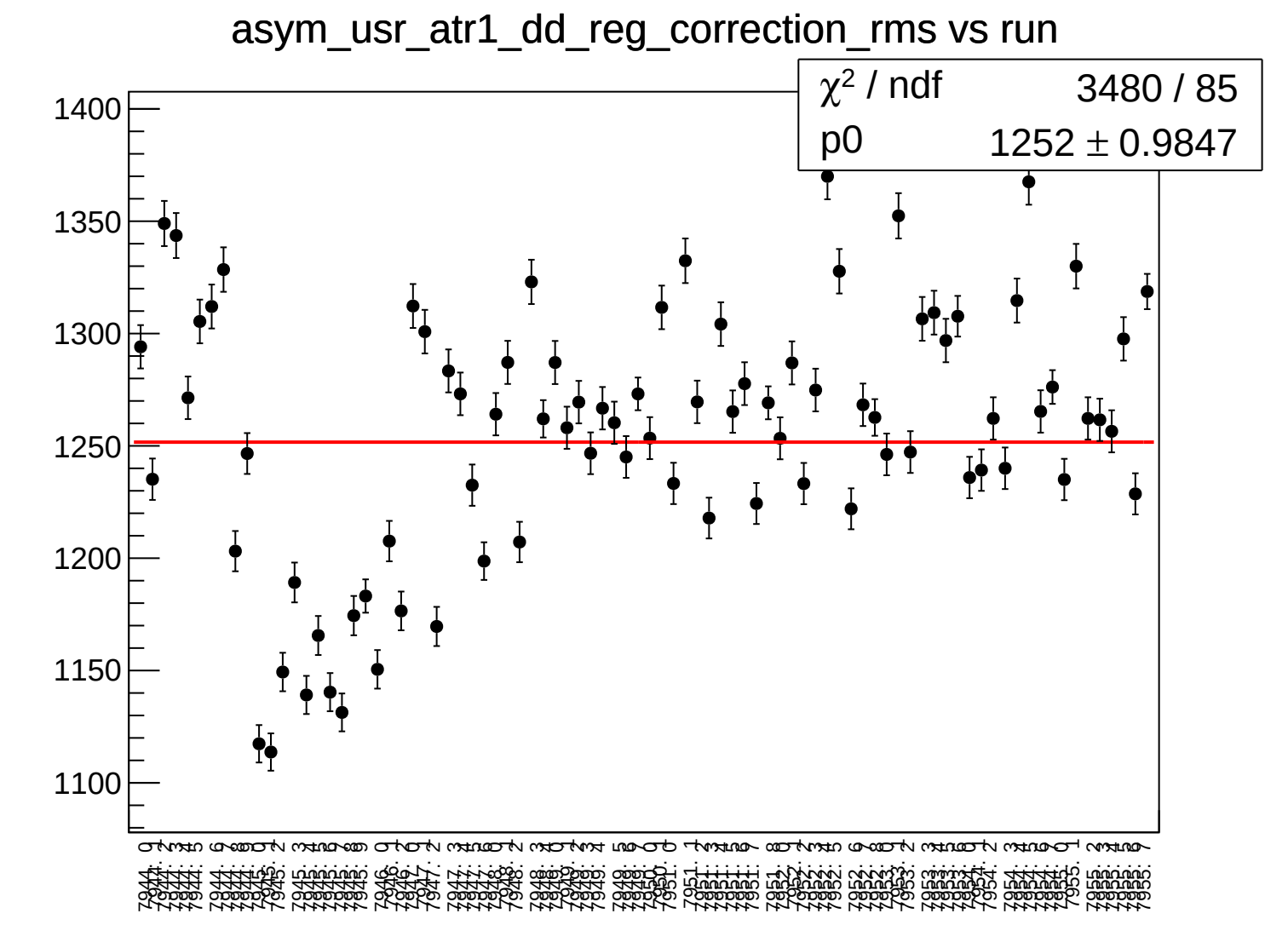

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 58.56 / 85
p0 −144.6 ± 1464
pull
Entries 86
Mean −16.37
Std Dev 0

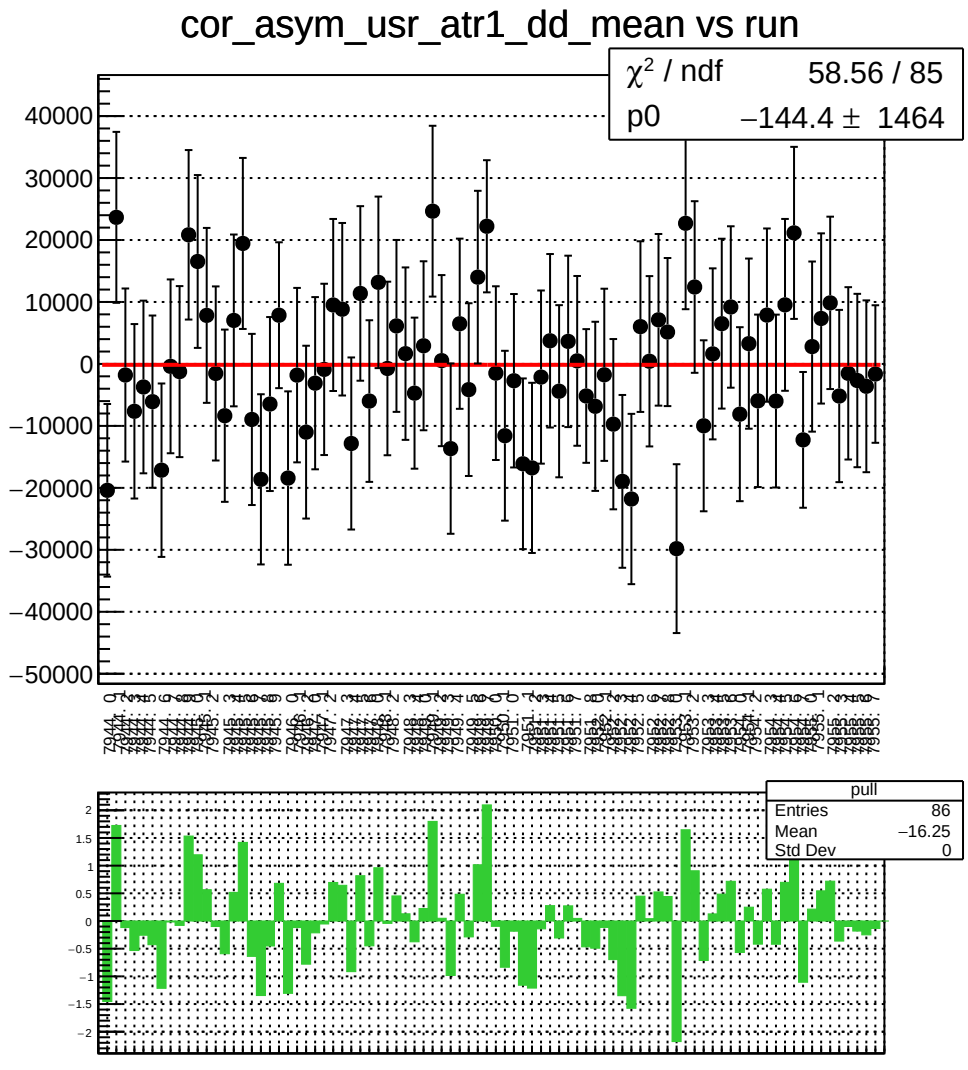

pull1D
Entries 86
Mean −0.003713
Std Dev 0.8252

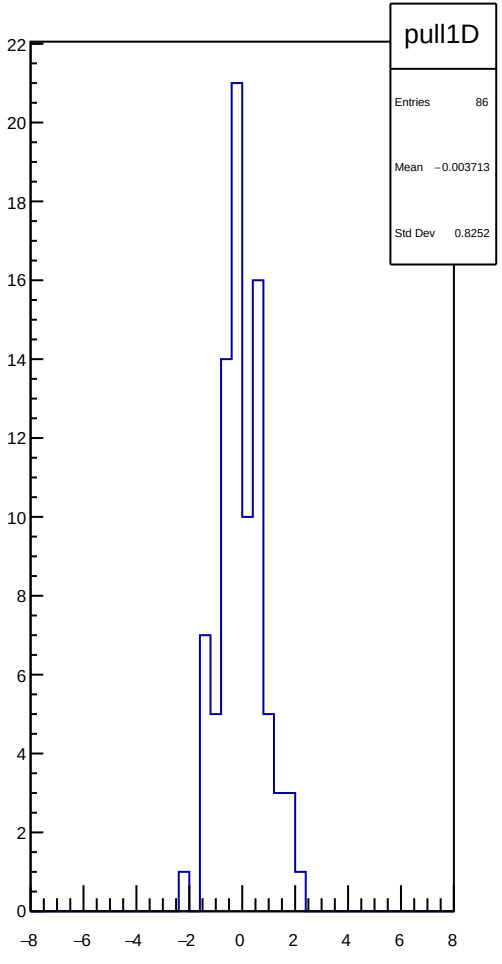

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 105.8 / 85
p0 1317 ± 1.035
1360
1350
1340
1330
1320
1310
1300
1290
1280

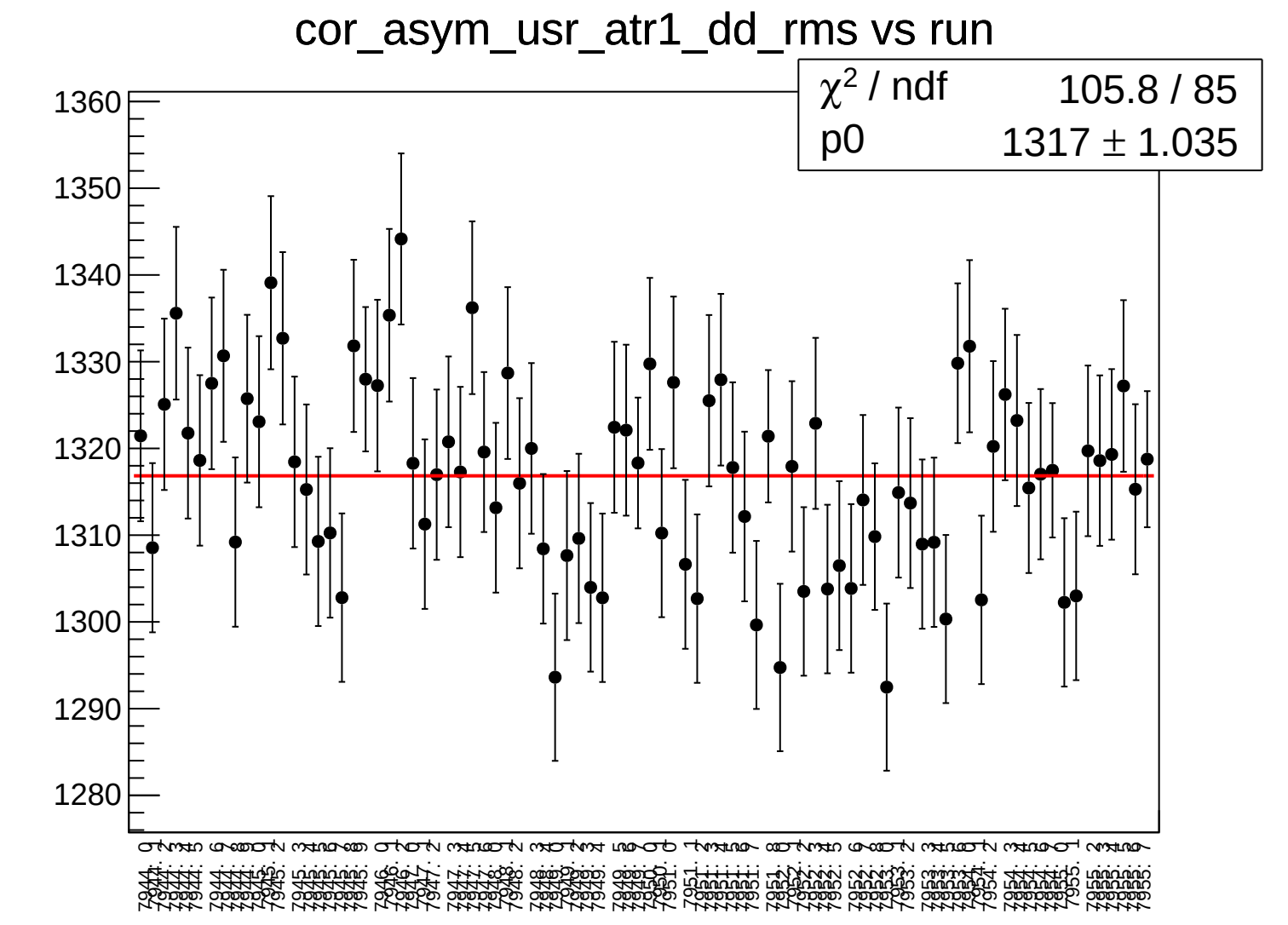

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 92.48 / 85
p0 724.2 ± 1393
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 419.7
Std Dev 0
2
1
0
−1
−2

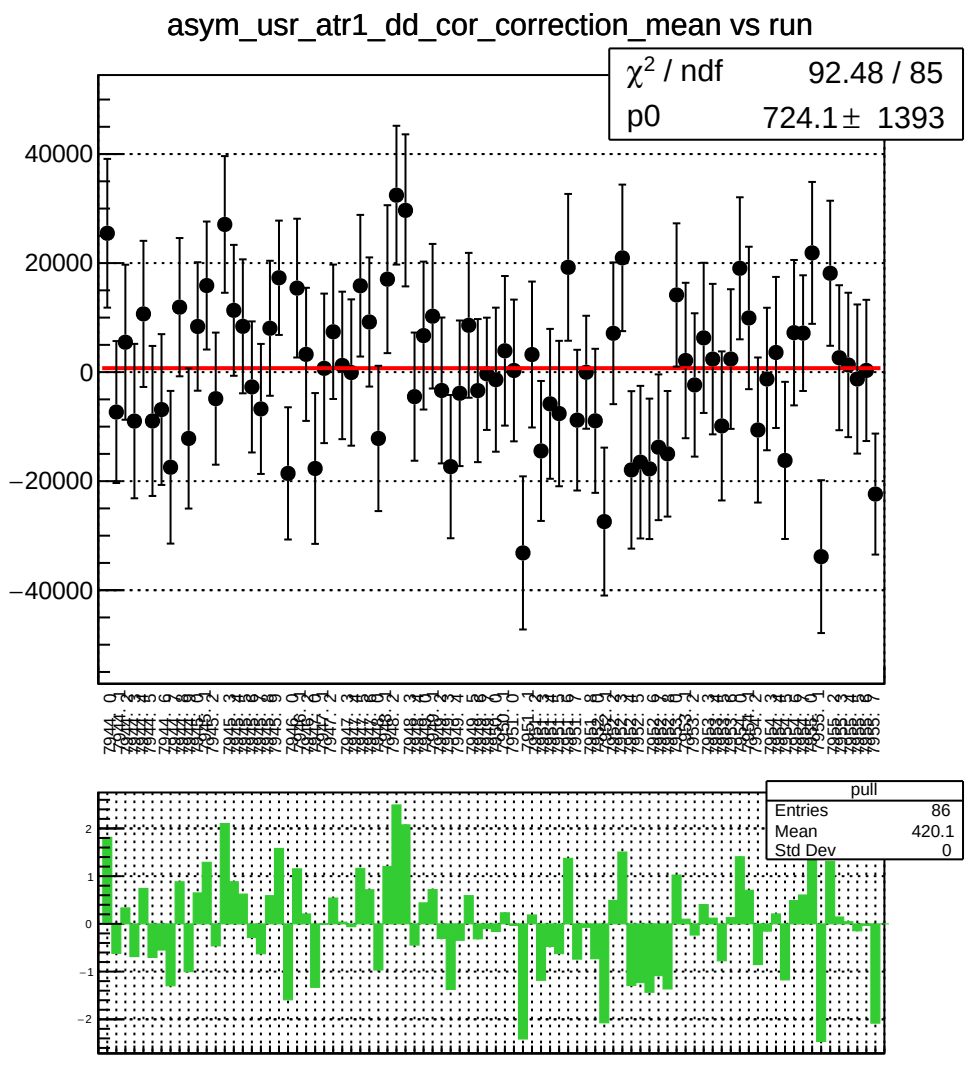

pull1D
Entries 86
Mean −0.01101
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

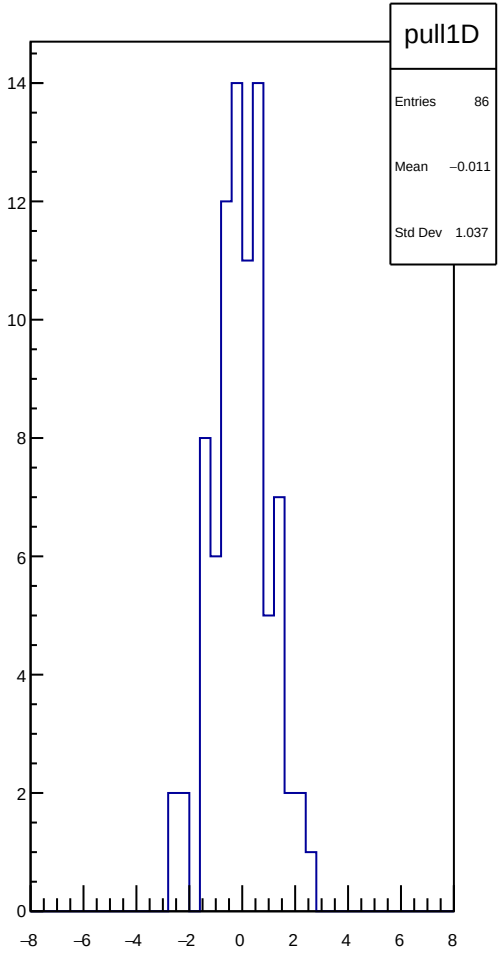

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 3480 / 85
p0 1252 ± 0.9847
1400
1350
1300
1250
1200
1150
1100

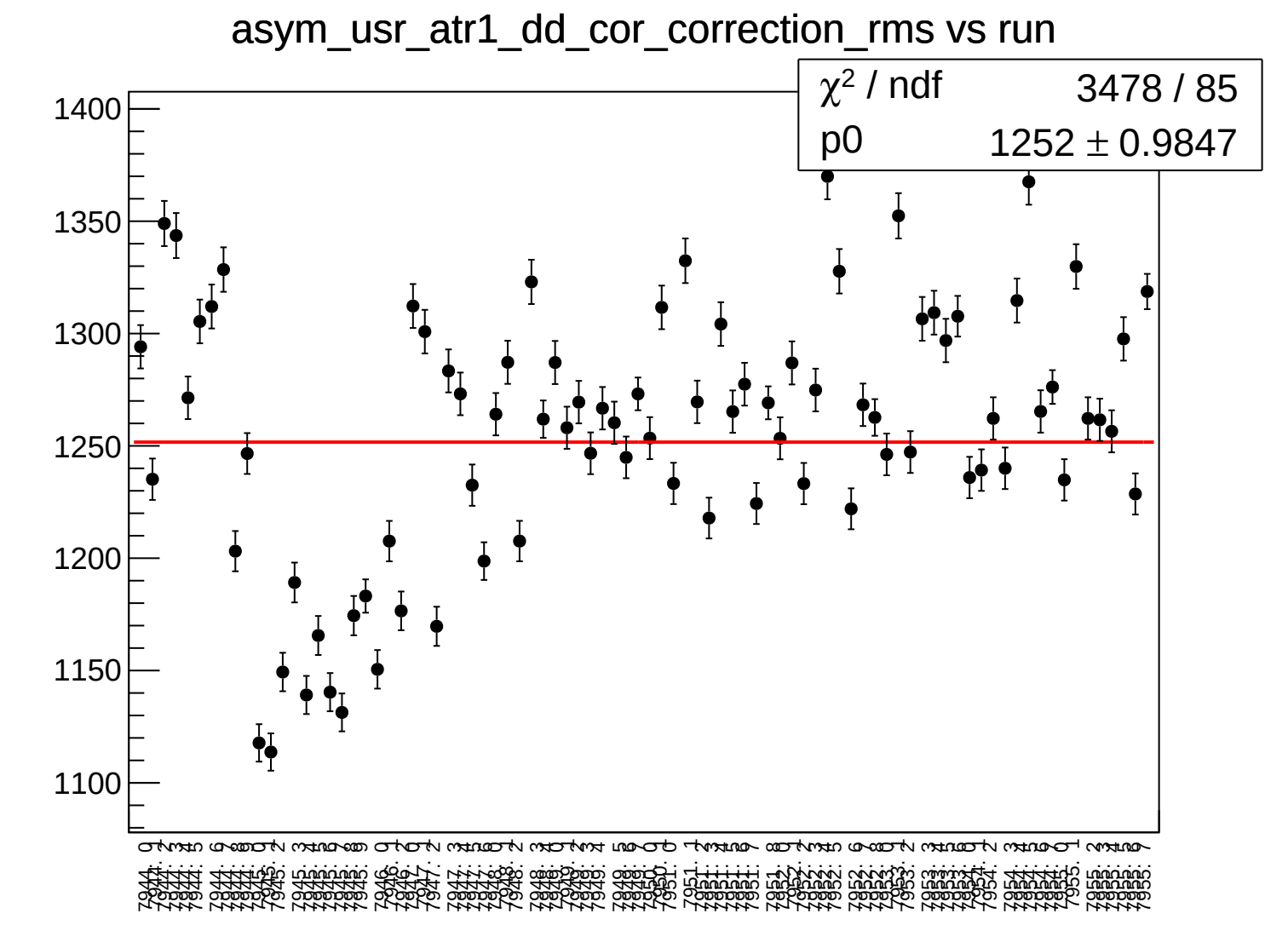

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 58.56 / 85
p0 −144.4 ± 1464
pull
Entries 86
Mean −16.25
Std Dev 0

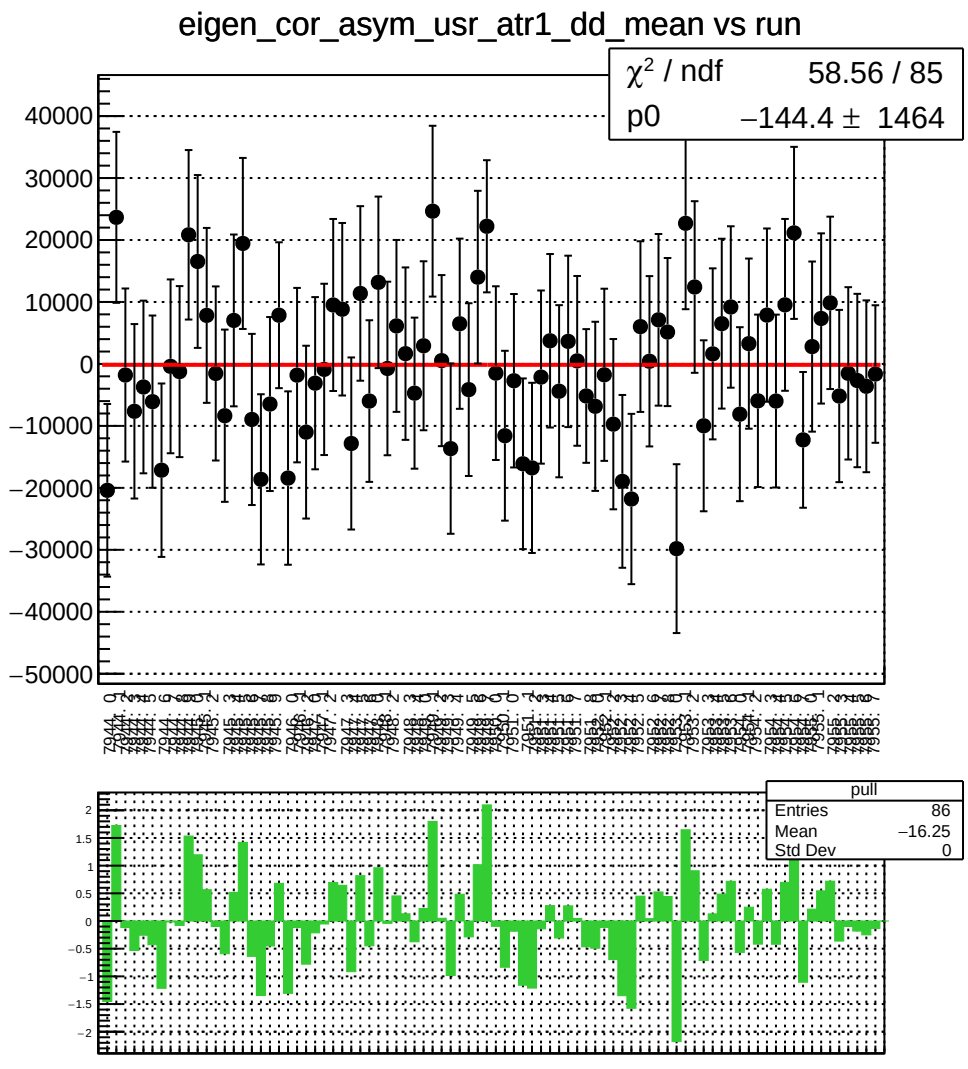

pull1D
Entries 86
Mean −0.003713
Std Dev 0.8252

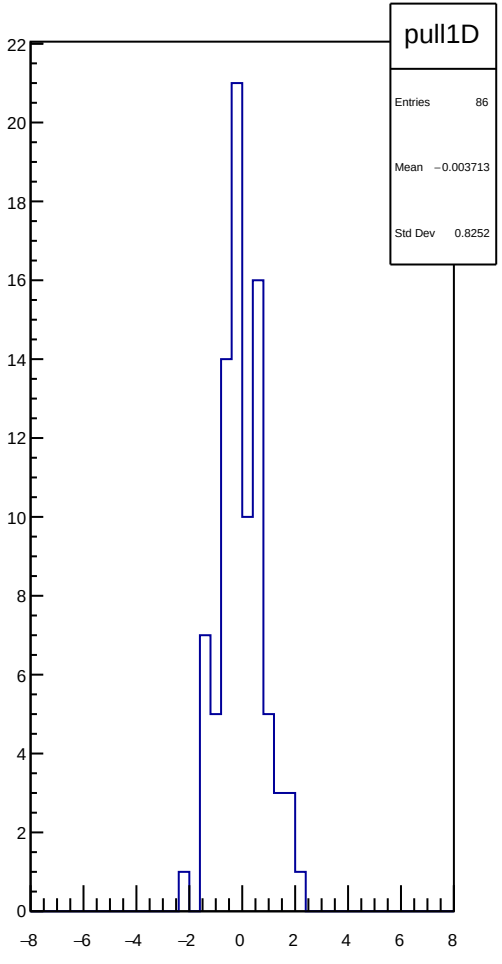

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 105.8 / 85
p0 1317 ± 1.035
1360
1350
1340
1330
1320
1310
1300
1290
1280

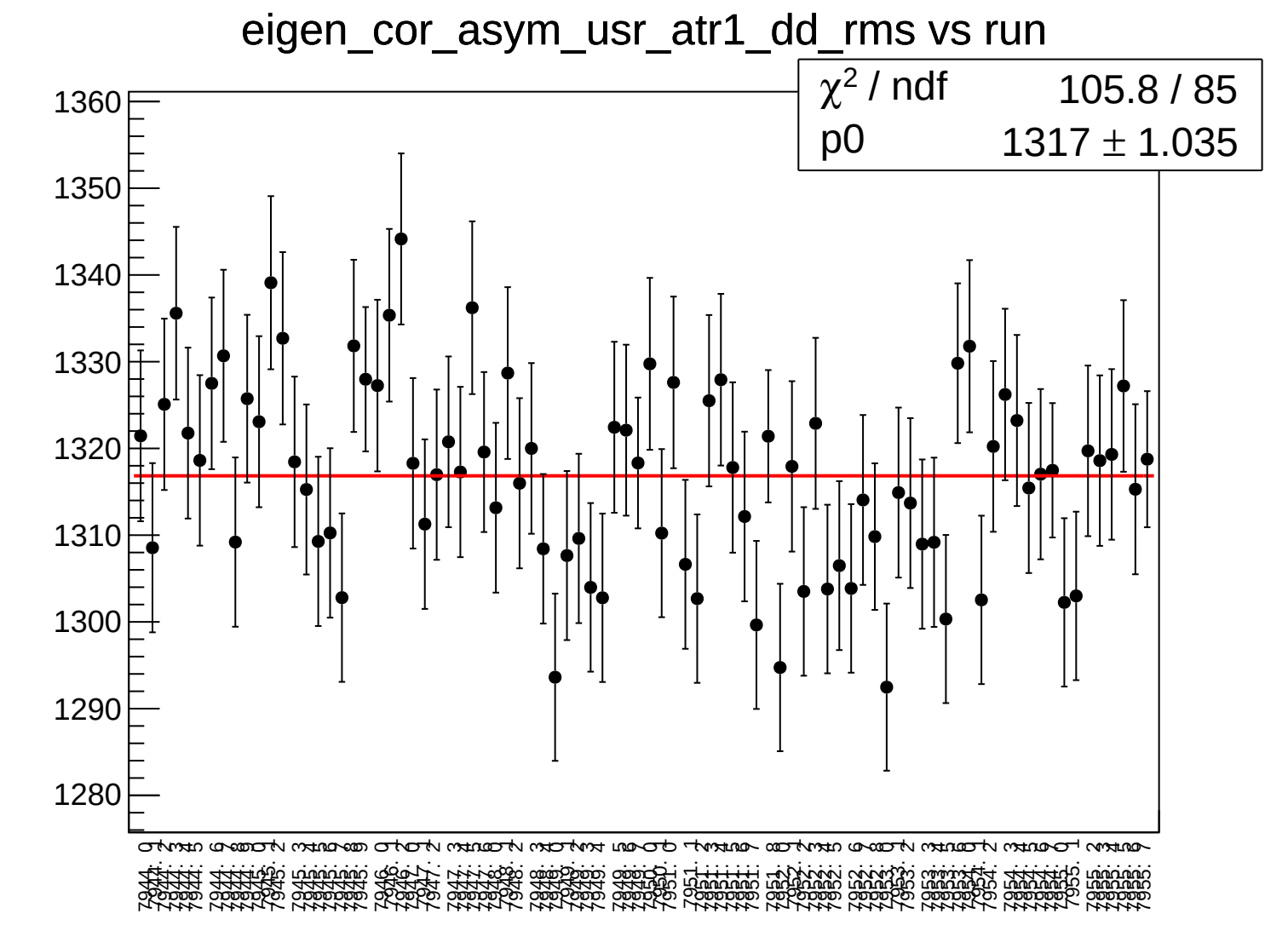

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 92.48 / 85
p0 724.1 ± 1393
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 420.1
Std Dev 0
2
1
0
−1
−2

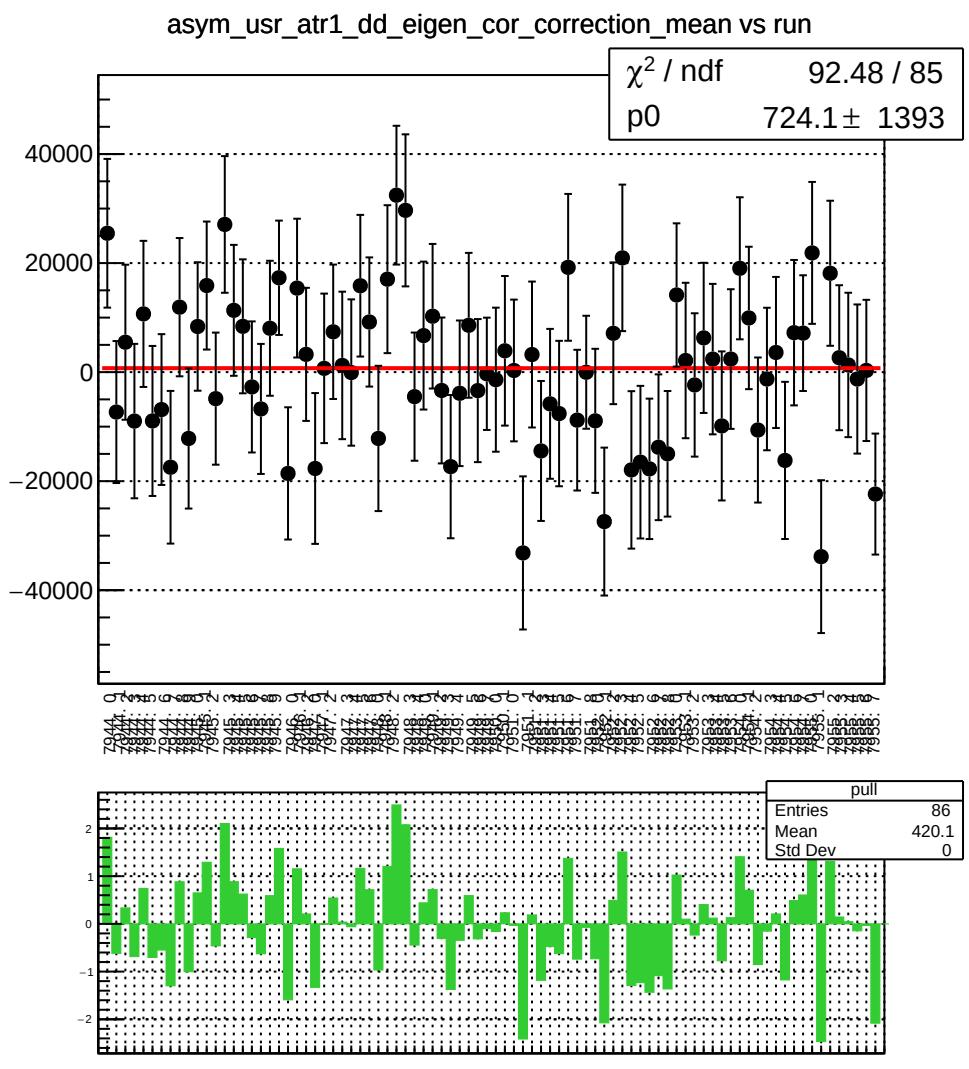

pull1D
Entries 86
Mean −0.011
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

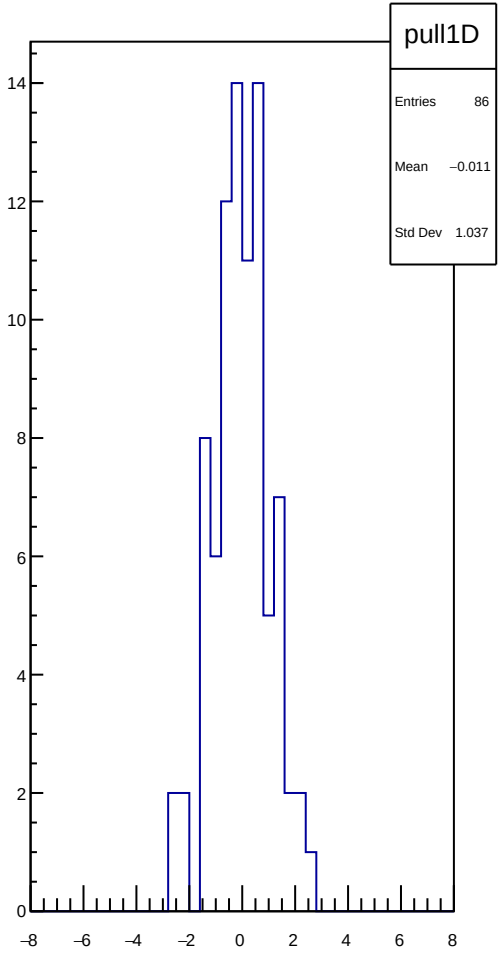

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 3478 / 85
p0 1252 ± 0.9847
1400
1350
1300
1250
1200
1150
1100

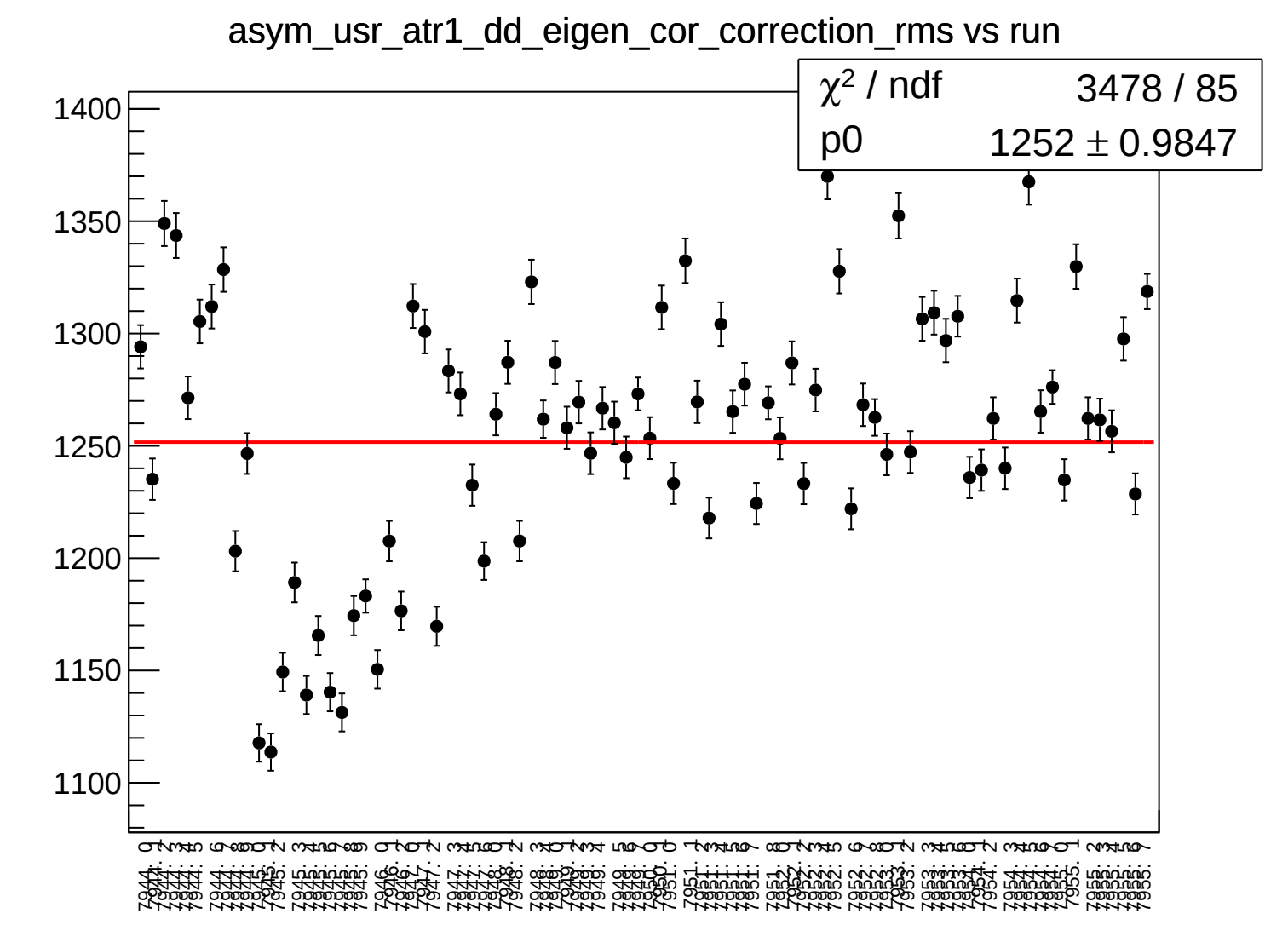

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 58.56 / 85
p0 −144.4 ± 1464
pull
Entries 86
Mean −16.25
Std Dev 0

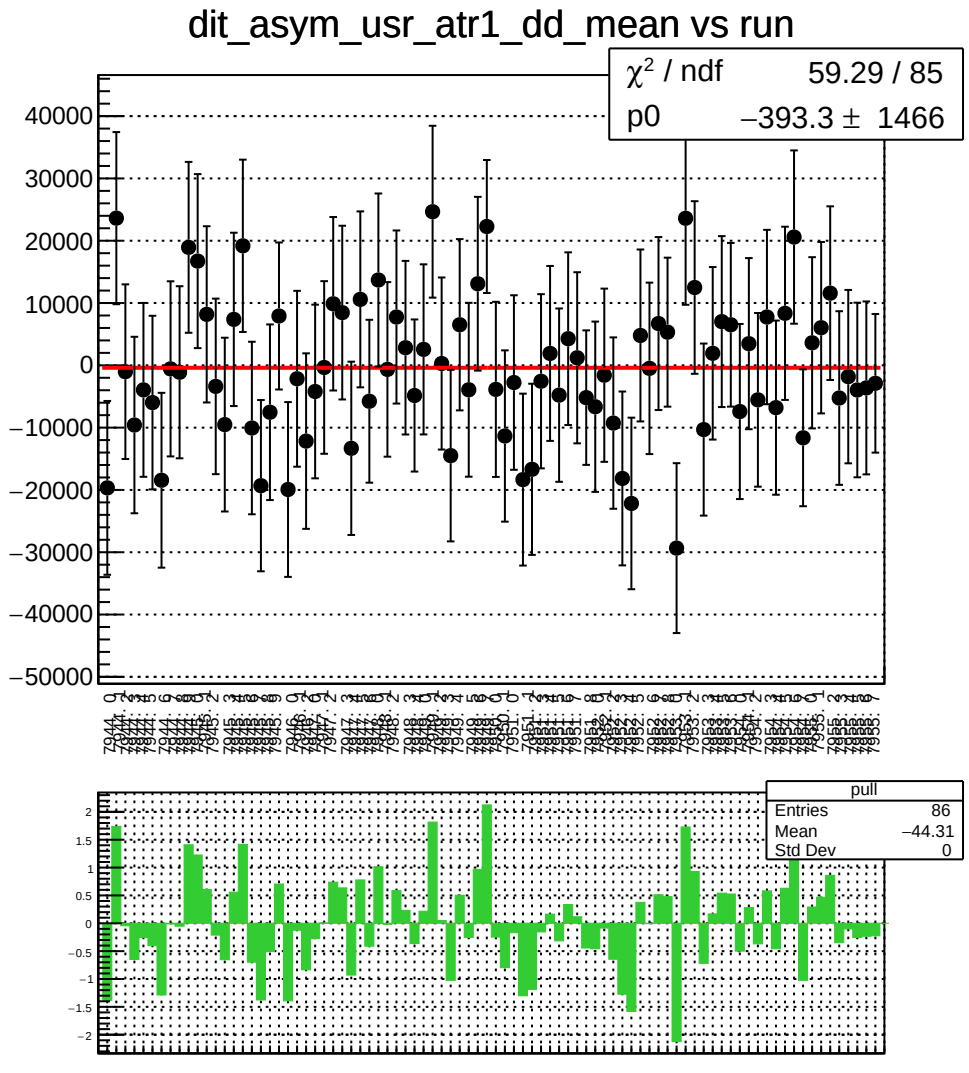

pull1D
Entries 86
Mean −0.003713
Std Dev 0.8252

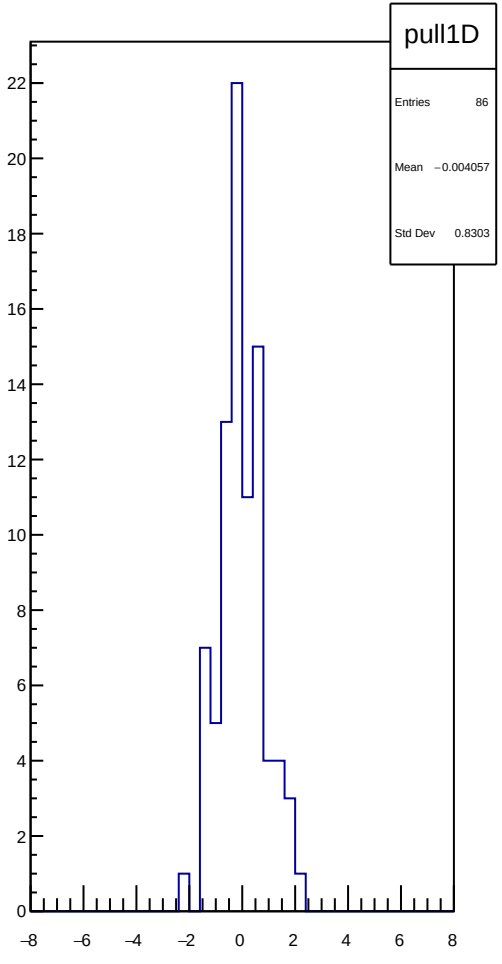

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 105.8 / 85
p0 1317 ± 1.035
1360
1350
1340
1330
1320
1310
1300
1290
1280

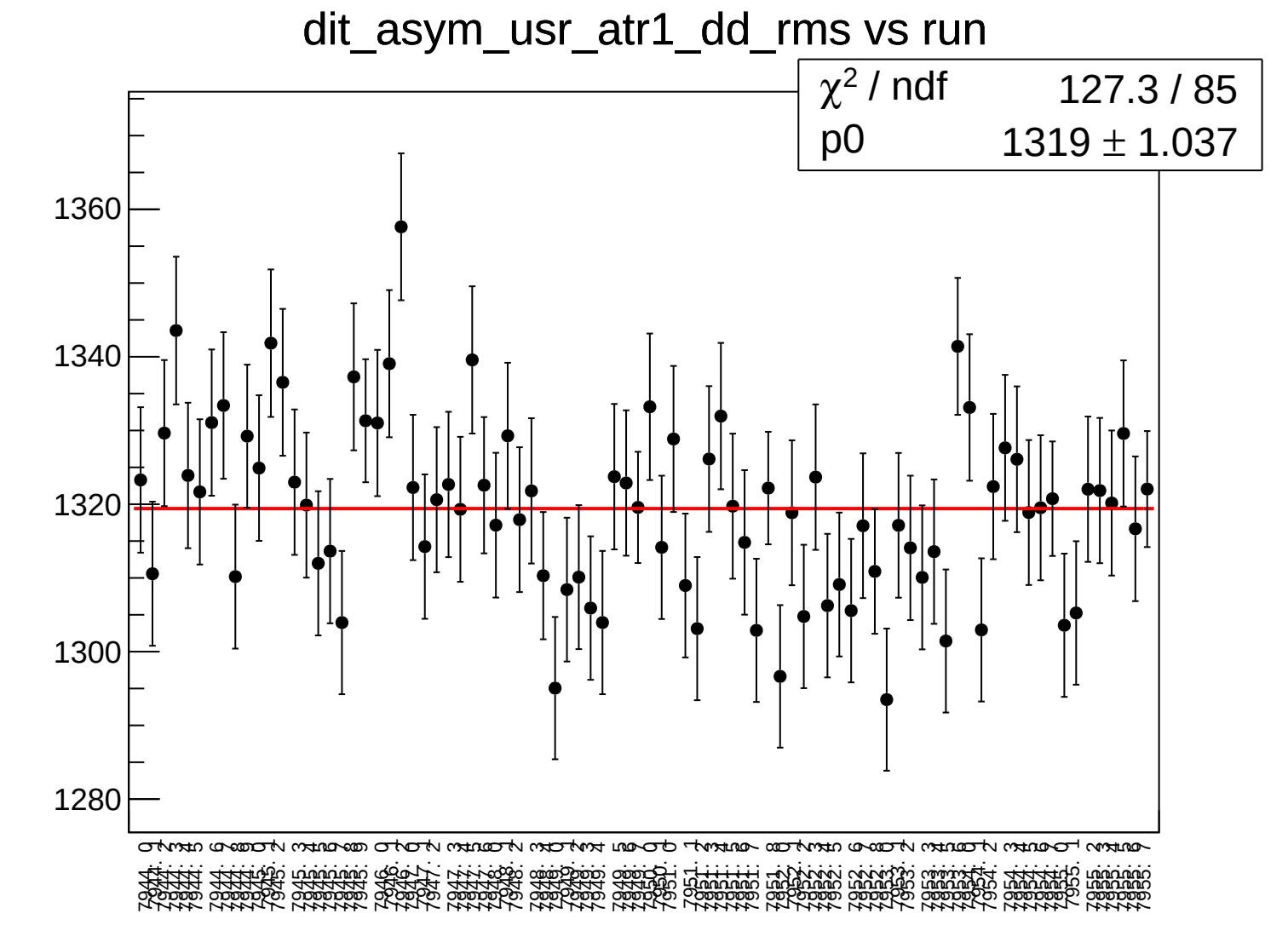

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.48 / 85
p0 724.1 ± 1393
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 420.1
Std Dev 0
2
1
0
−1
−2

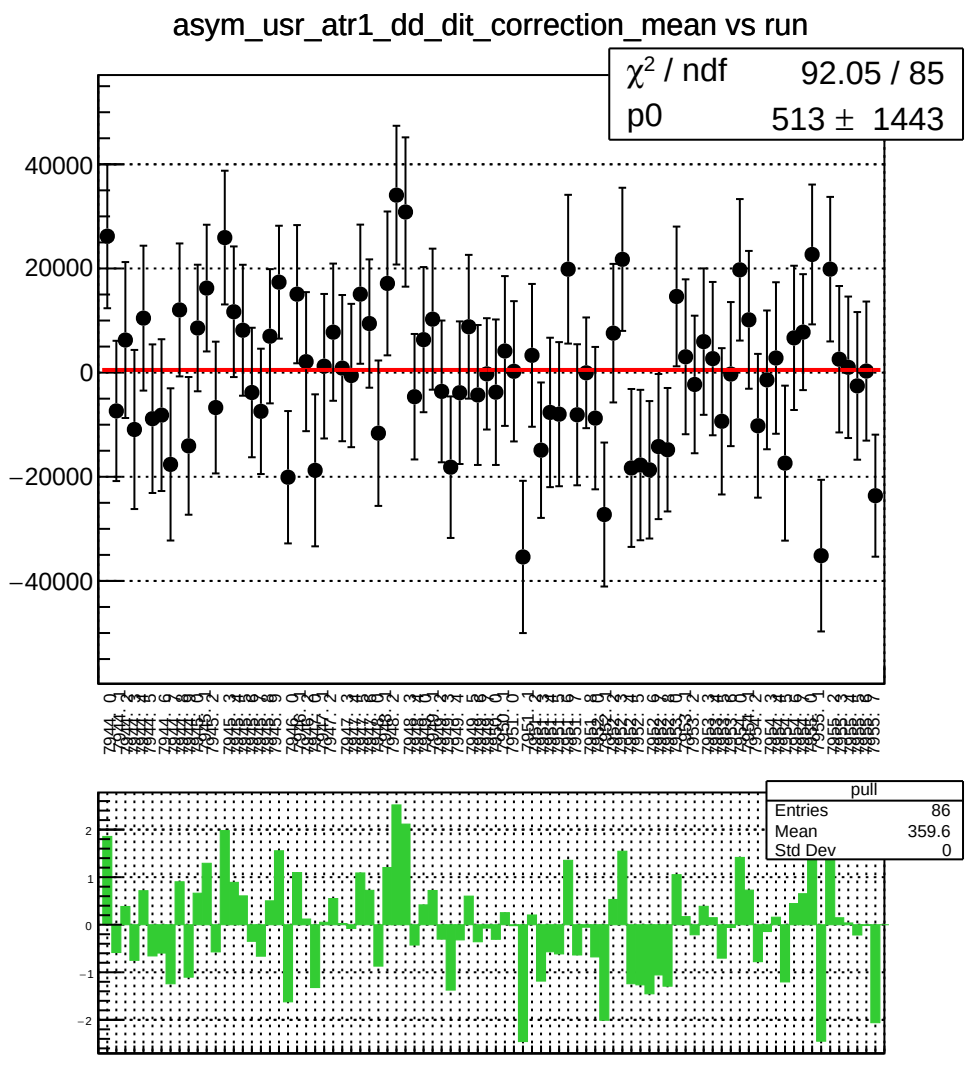

pull1D
Entries 86
Mean −0.011
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

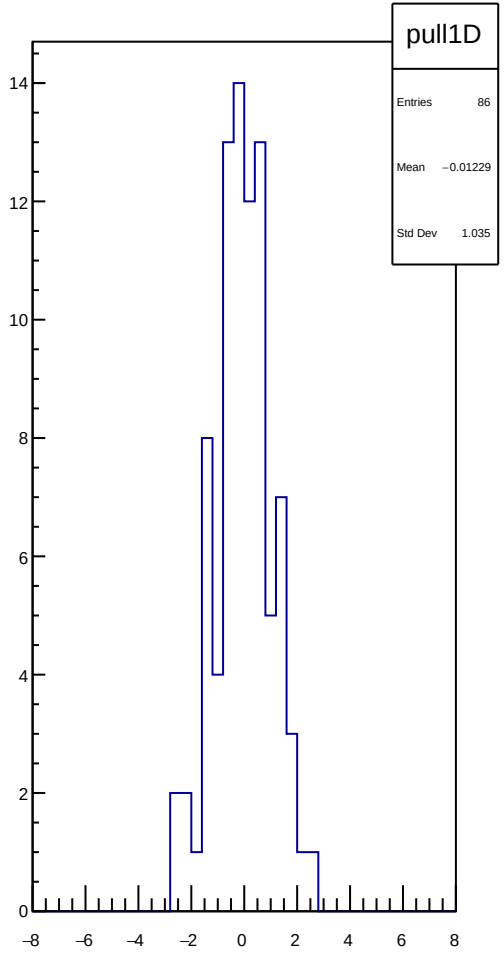

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3478 / 85
p0 1252 ± 0.9847
1400
1350
1300
1250
1200
1150
1100

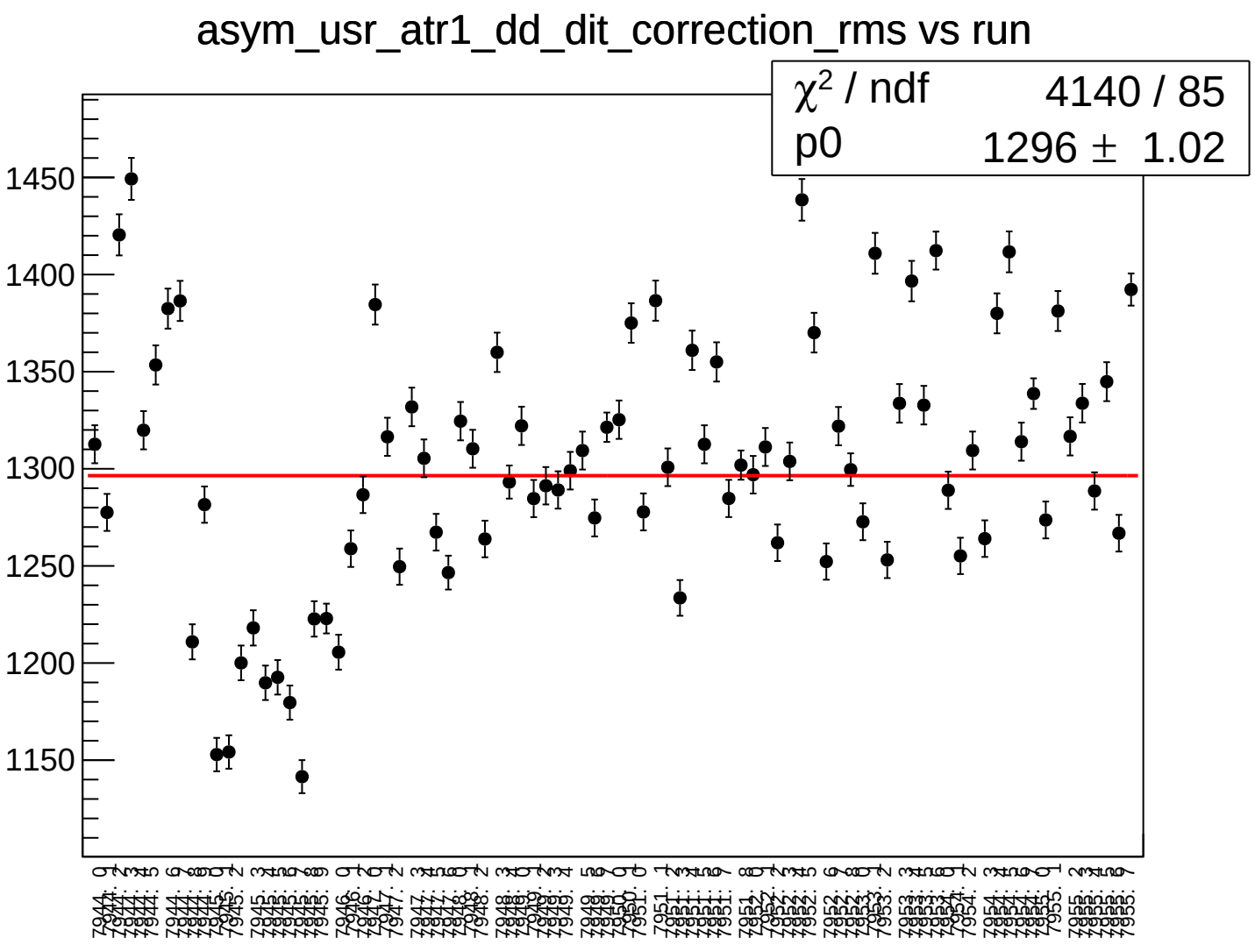

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 59.29 / 85
p0 −393.3 ± 1466
pull
Entries 86
Mean −44.31
Std Dev 0

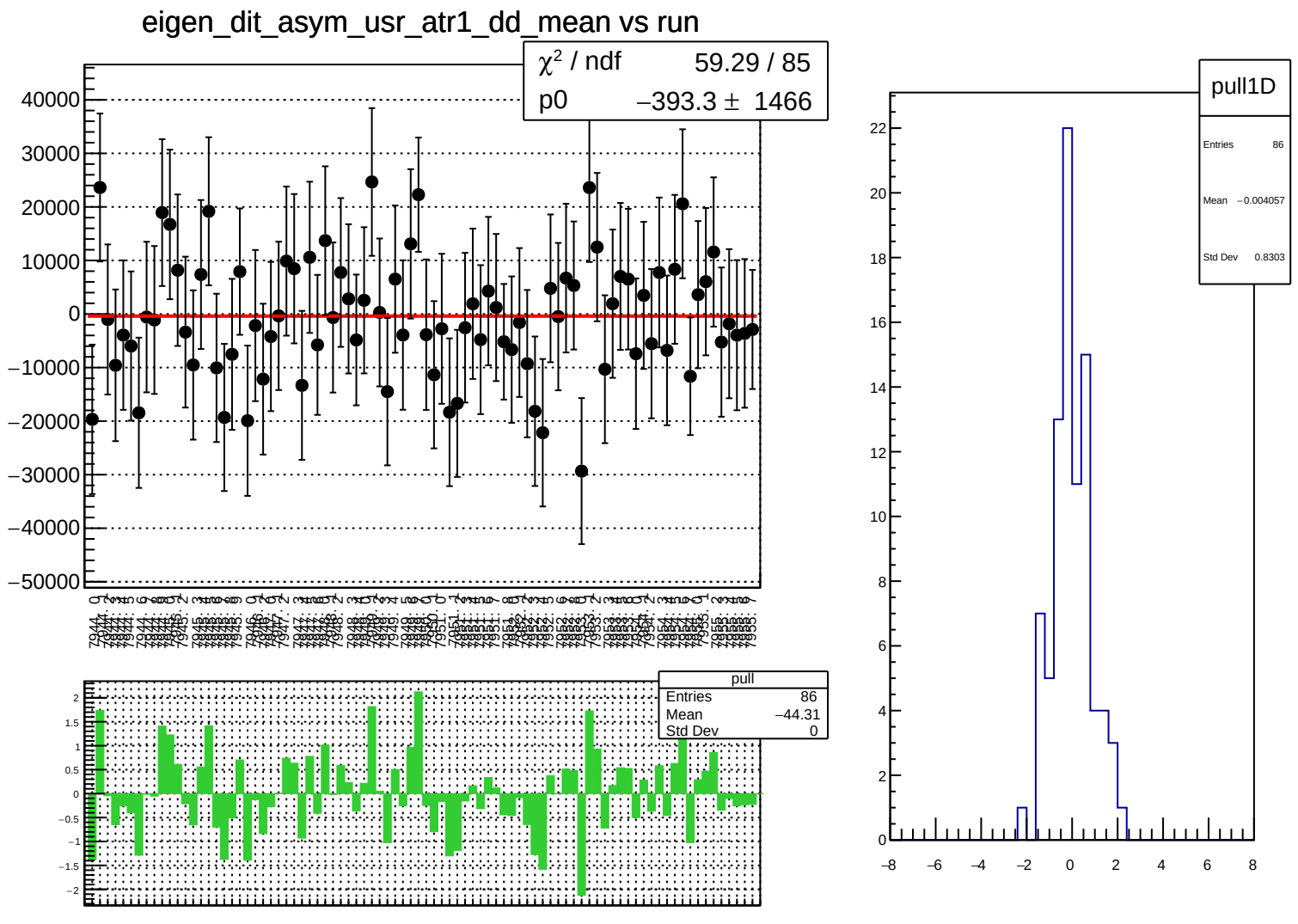

pull1D
Entries 86
Mean −0.004057
Std Dev 0.8303

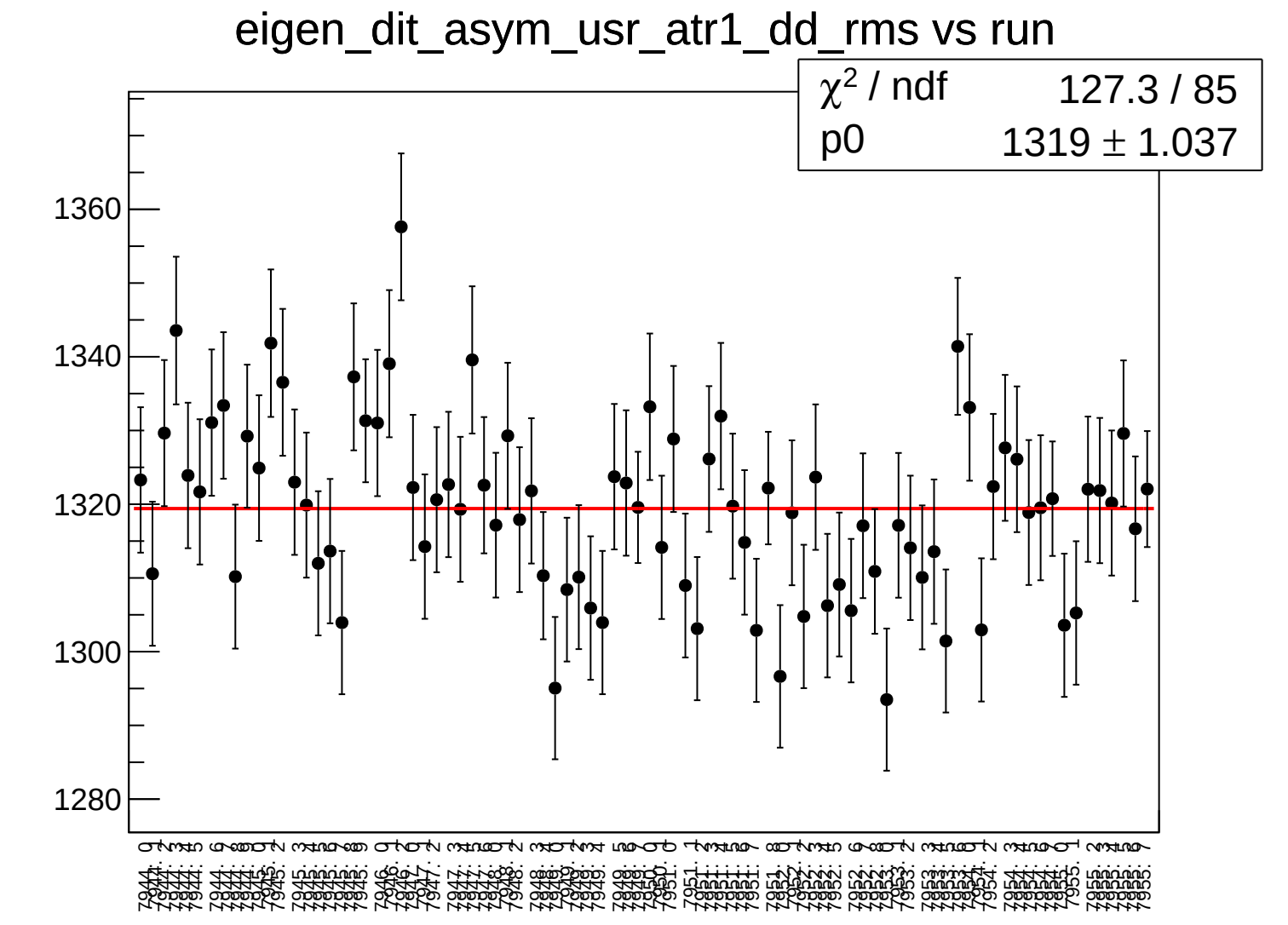

dit_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 127.3 / 85
p0 1319 ± 1.037
1360
1340
1320
1300
1280

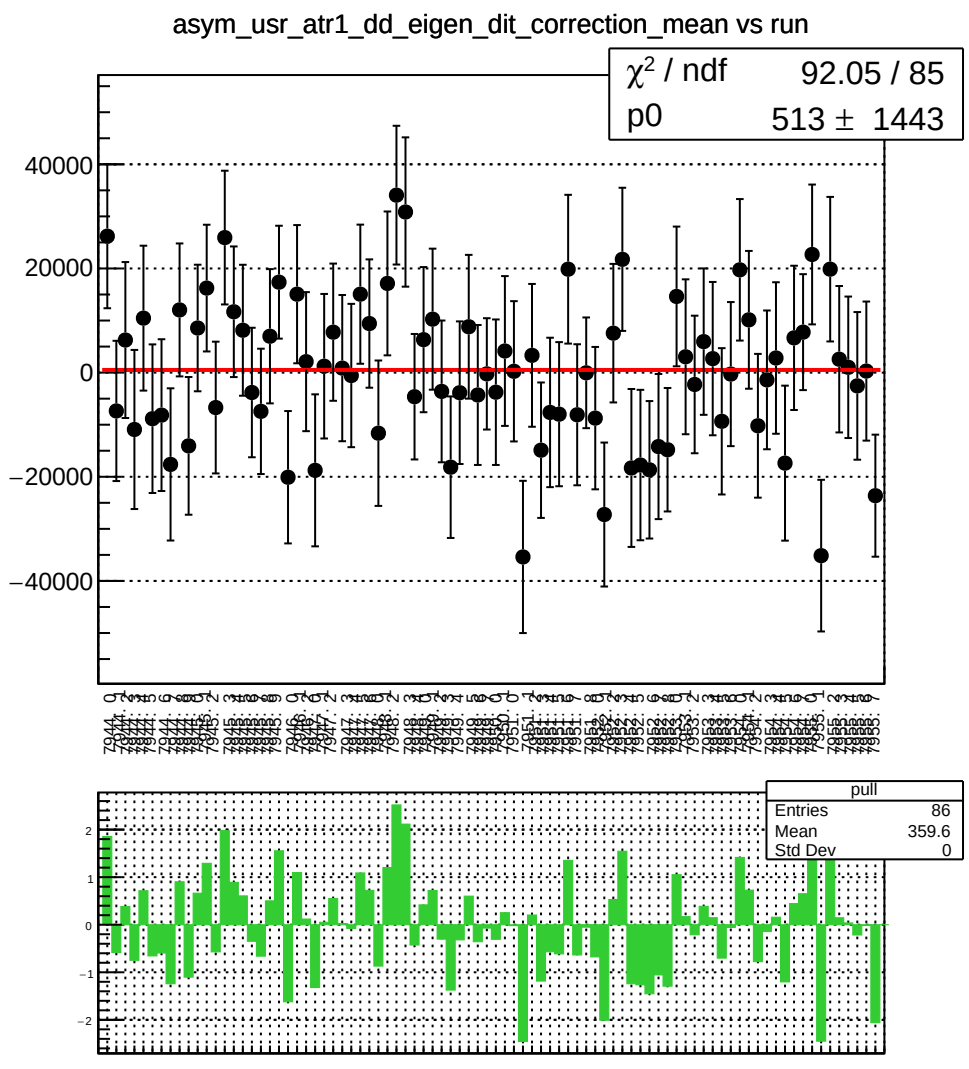

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 92.05 / 85
p0 513 ± 1443
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 359.6
Std Dev 0
2
1
0
−1
−2

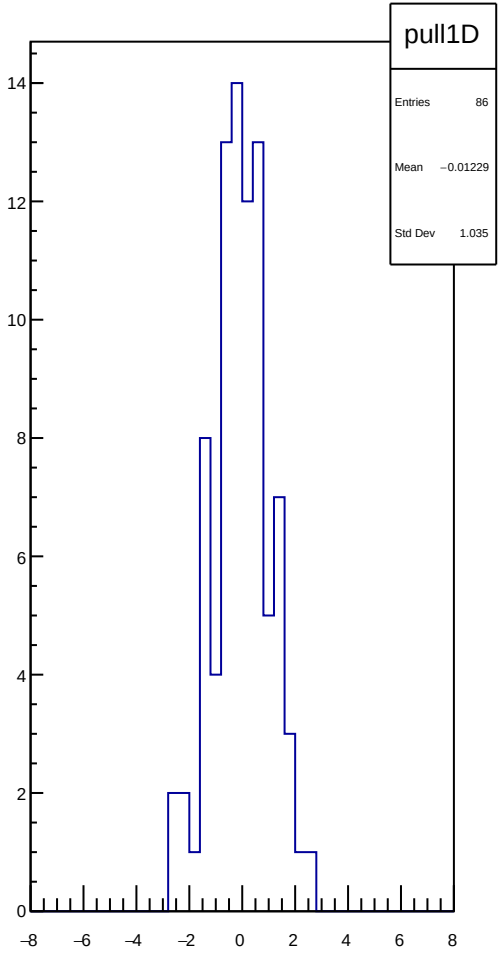

pull1D
Entries 86
Mean −0.01229
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

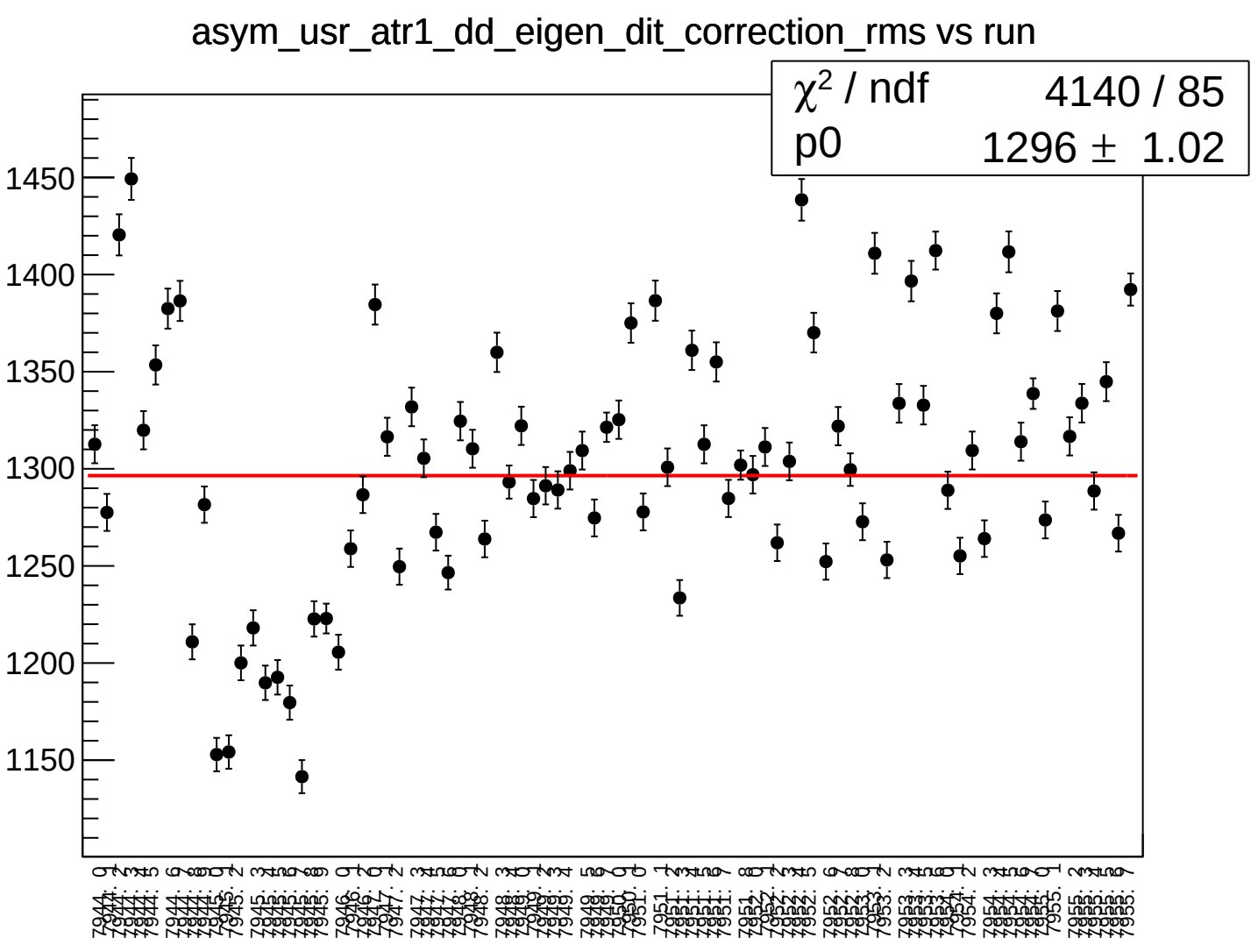

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 4140 / 85
p0 1296 ± 1.02
1450
1400
1350
1300
1250
1200
1150

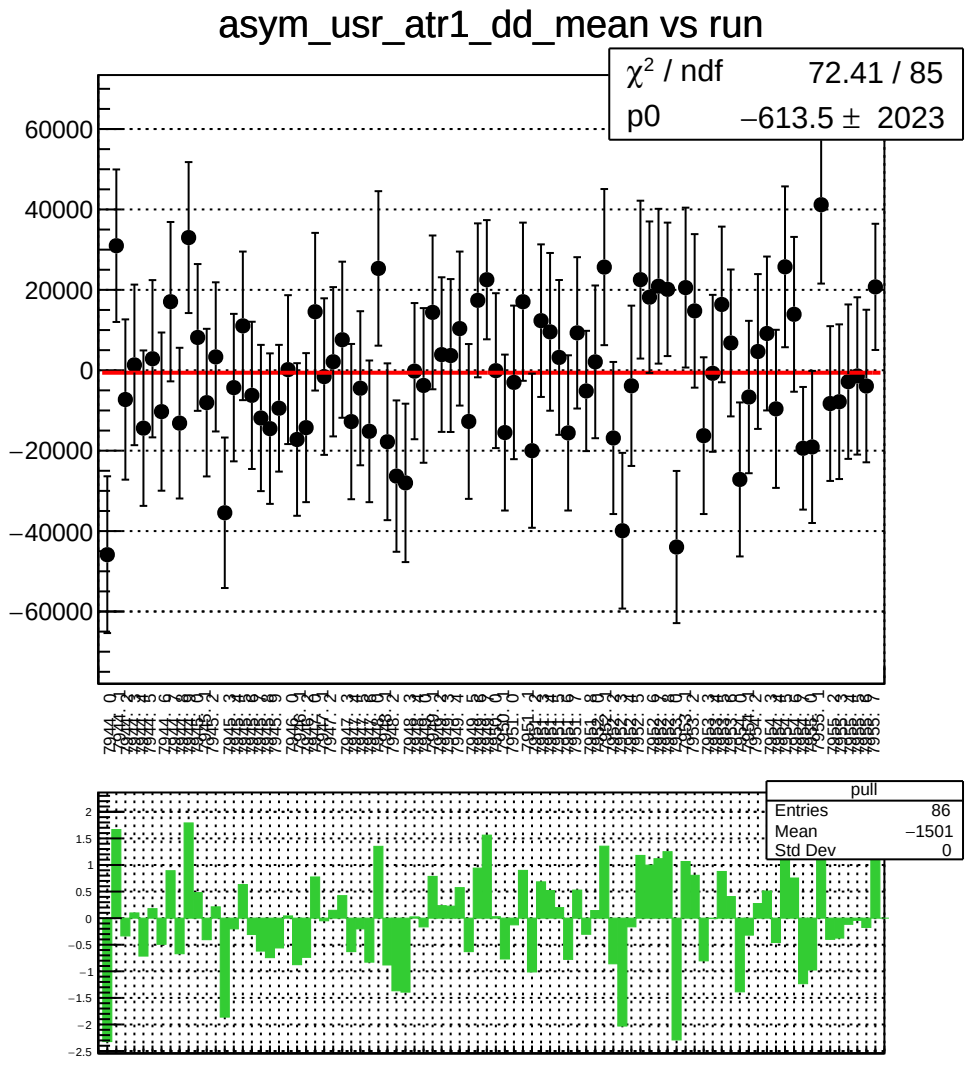

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 59.29 / 85
p0 −393.3 ± 1466
pull
Entries 86
Mean −44.31
Std Dev 0
pull1D
Entries 86
Mean −0.004057
Std Dev 0.8303

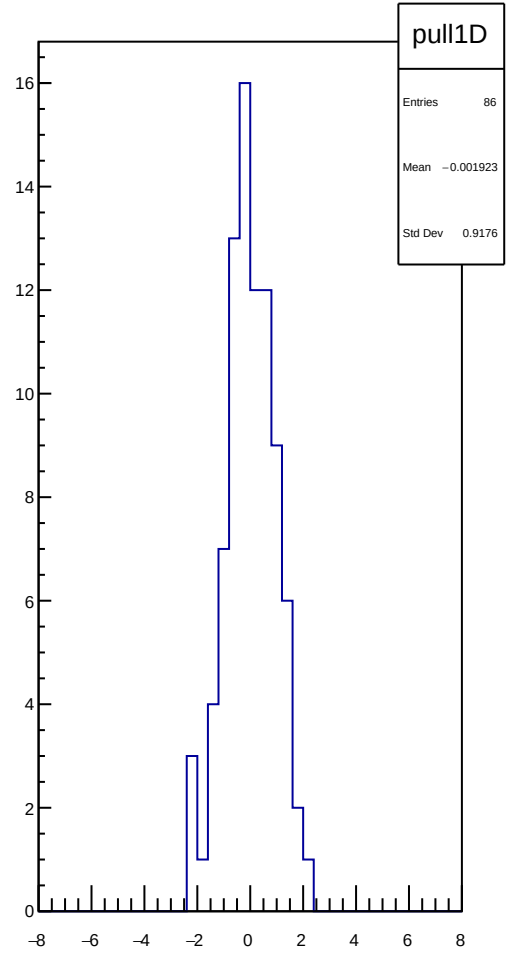

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 127.3 / 85
p0 1319 ± 1.037
1360
1340
1320
1300
1280

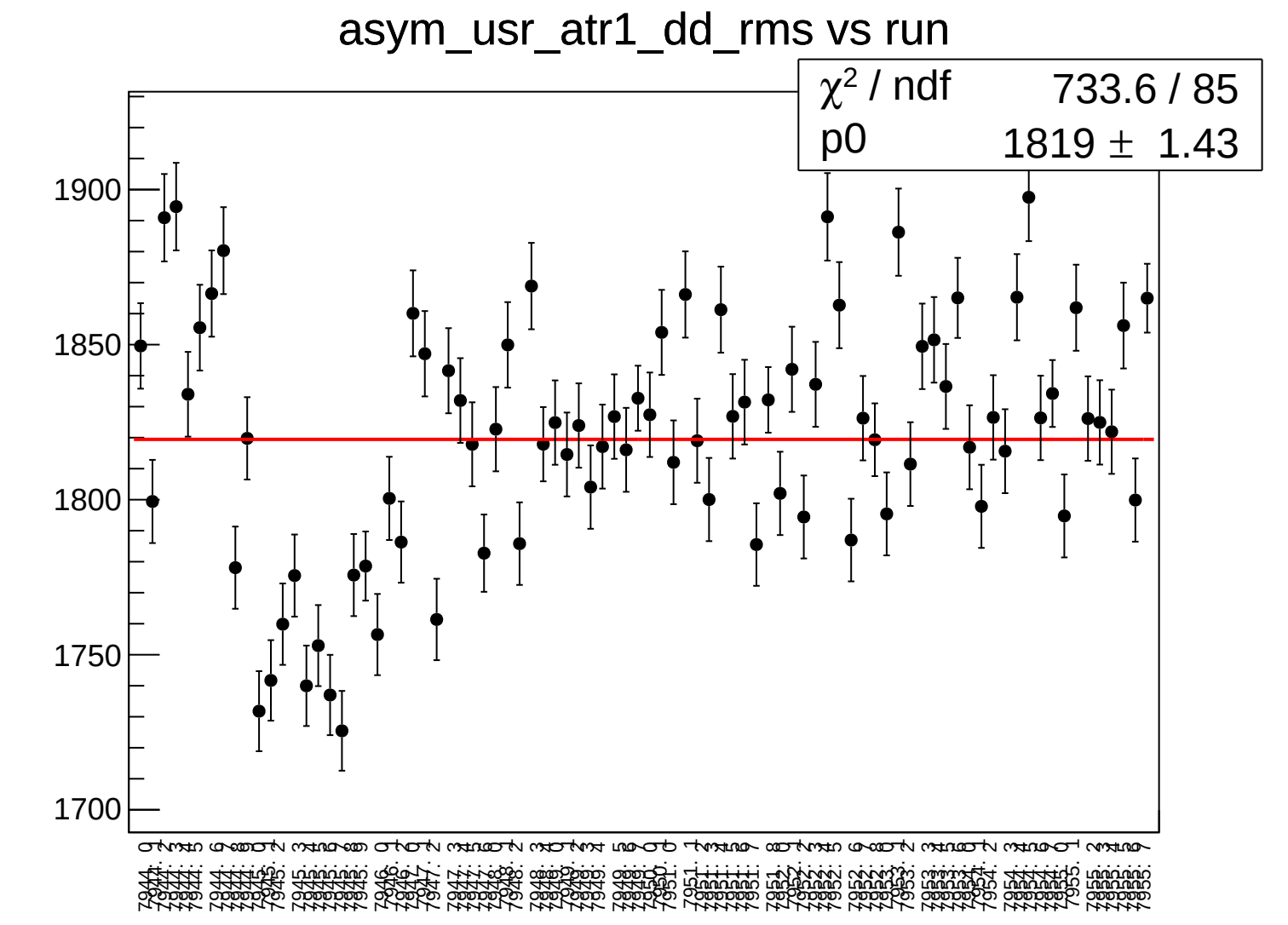

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.05 / 85
p0 513 ± 1443
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 359.6
Std Dev 0
2
1
0
−1
−2

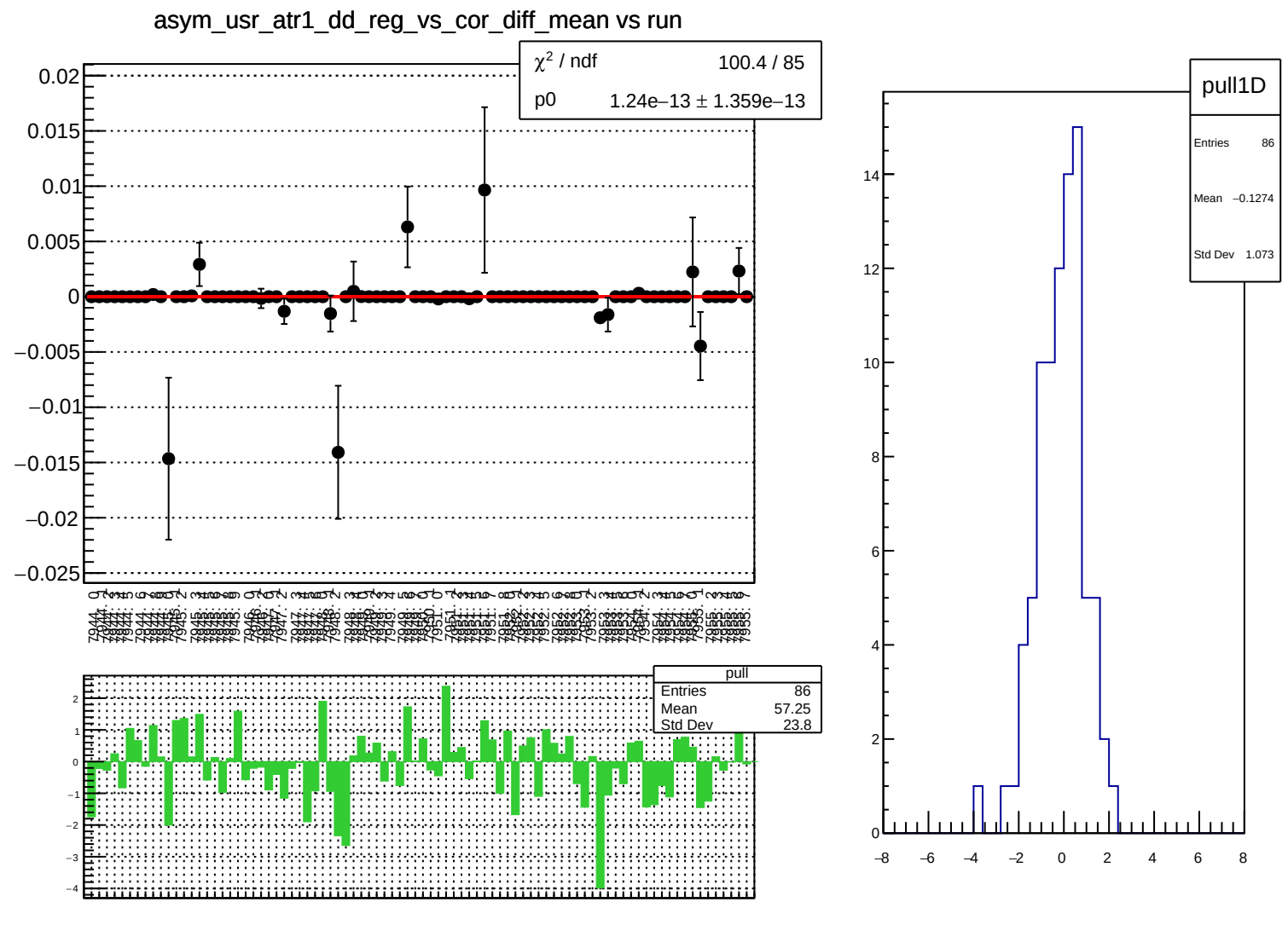

pull1D
Entries 86
Mean −0.01229
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

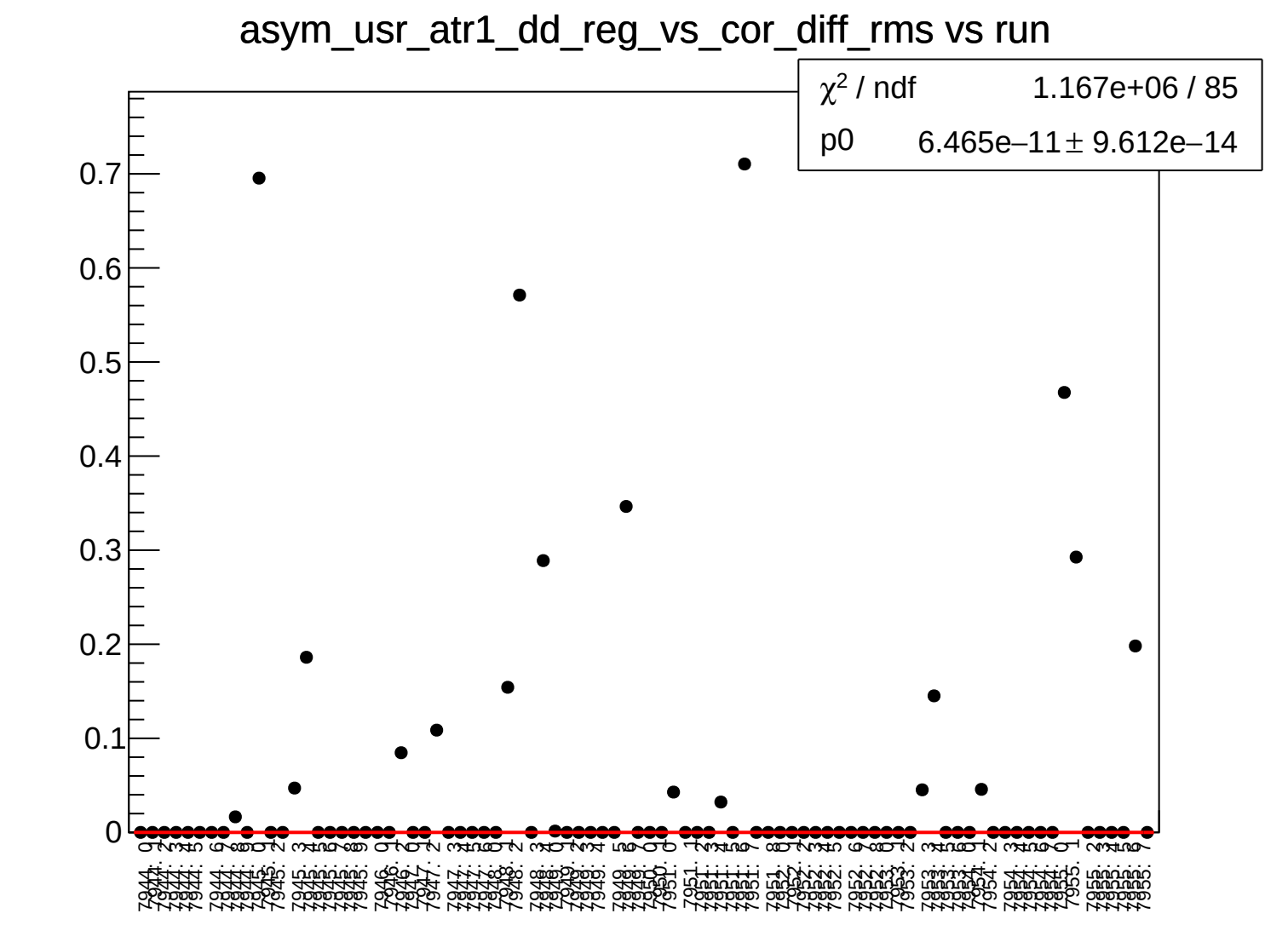

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4140 / 85
p0 1296 ± 1.02
1450
1400
1350
1300
1250
1200
1150

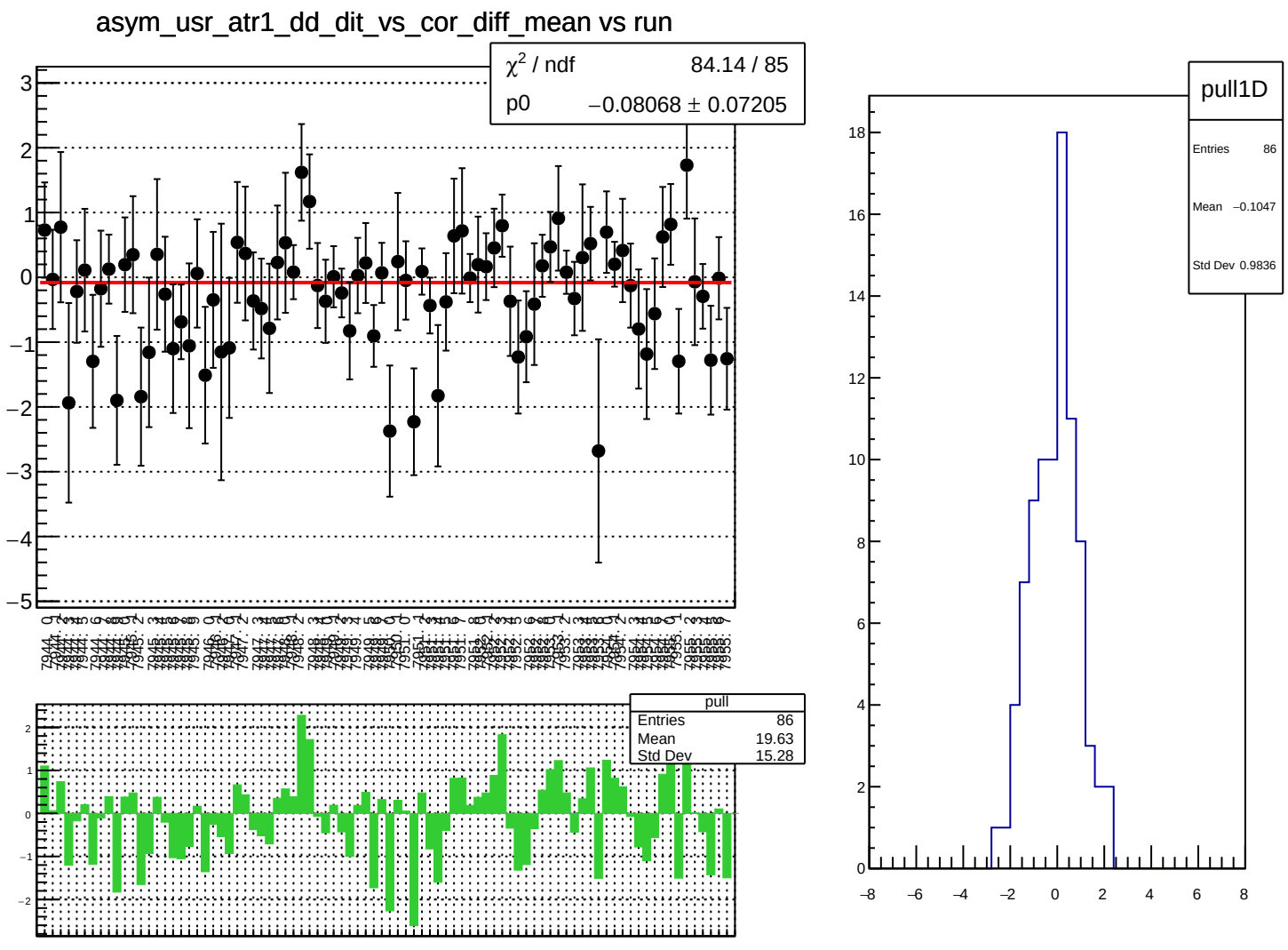

asym_usr_atr1_dd_mean vs run
χ² / ndf 72.41 / 85
p0 −613.5 ± 2023
pull
Entries 86
Mean −1501
Std Dev 0

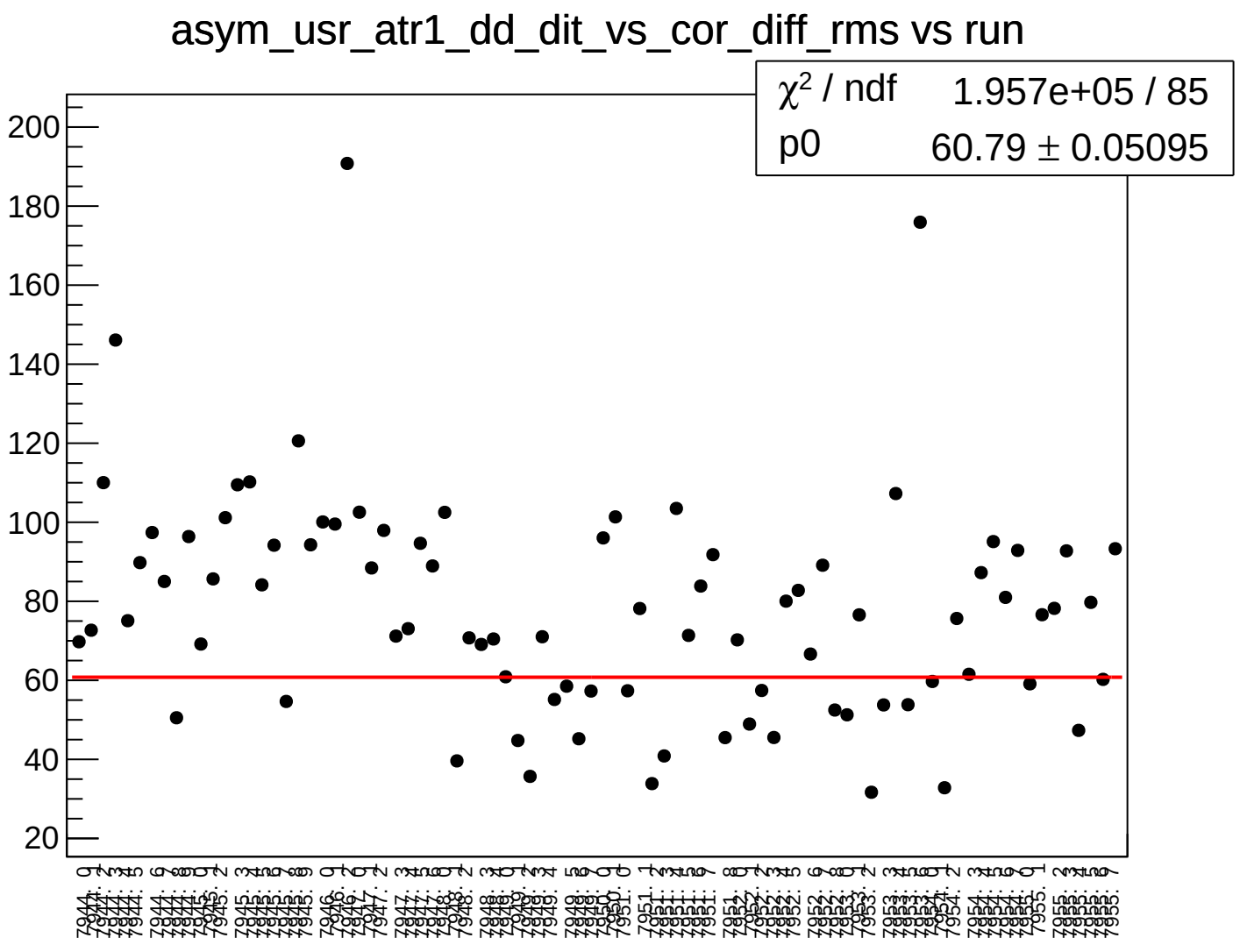

pull1D
Entries 86
Mean −0.001923
Std Dev 0.9176

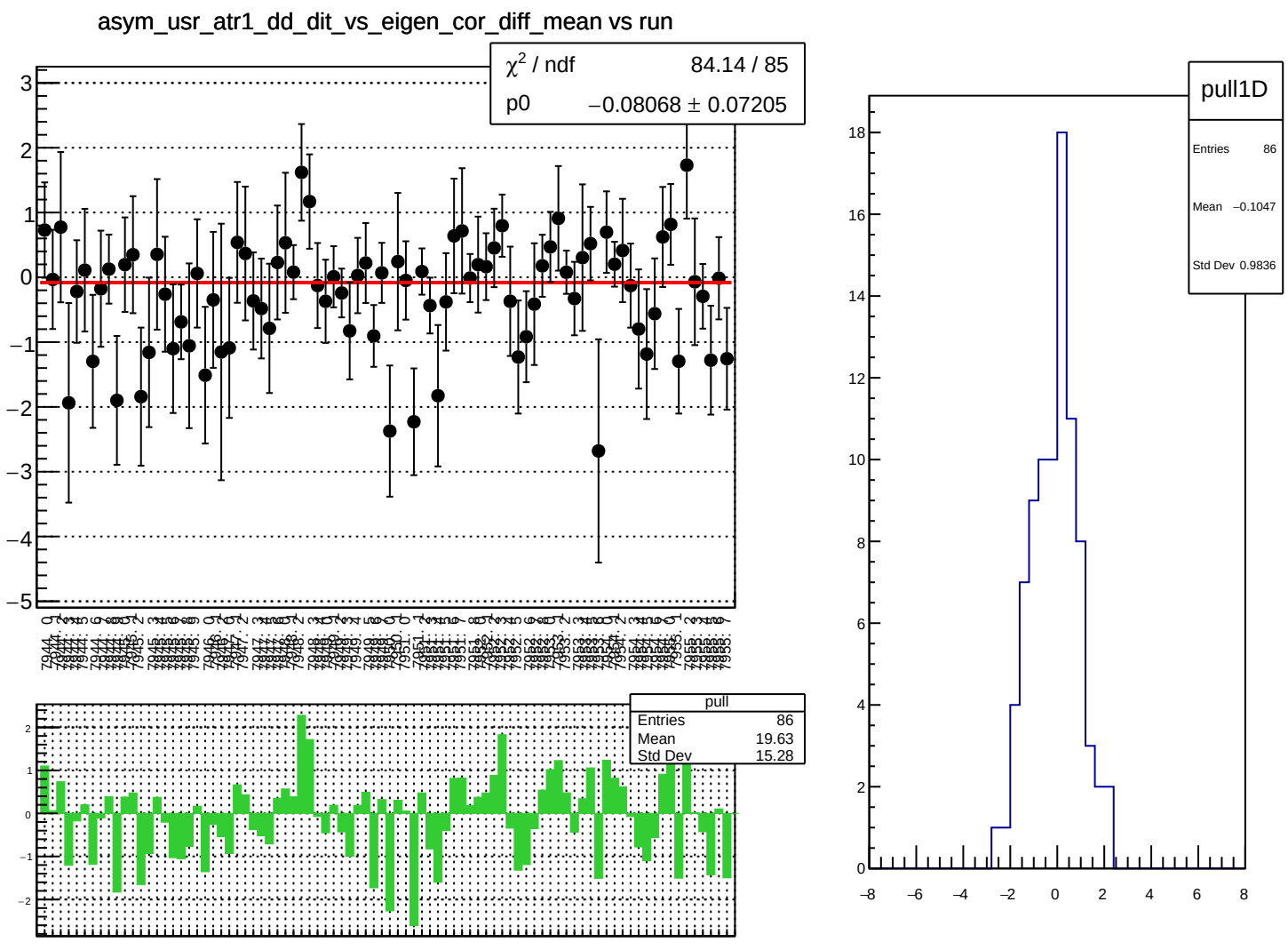

asym_usr_atr1_dd_rms vs run
χ² / ndf 733.6 / 85
p0 1819 ± 1.43
1900
1850
1800
1750
1700

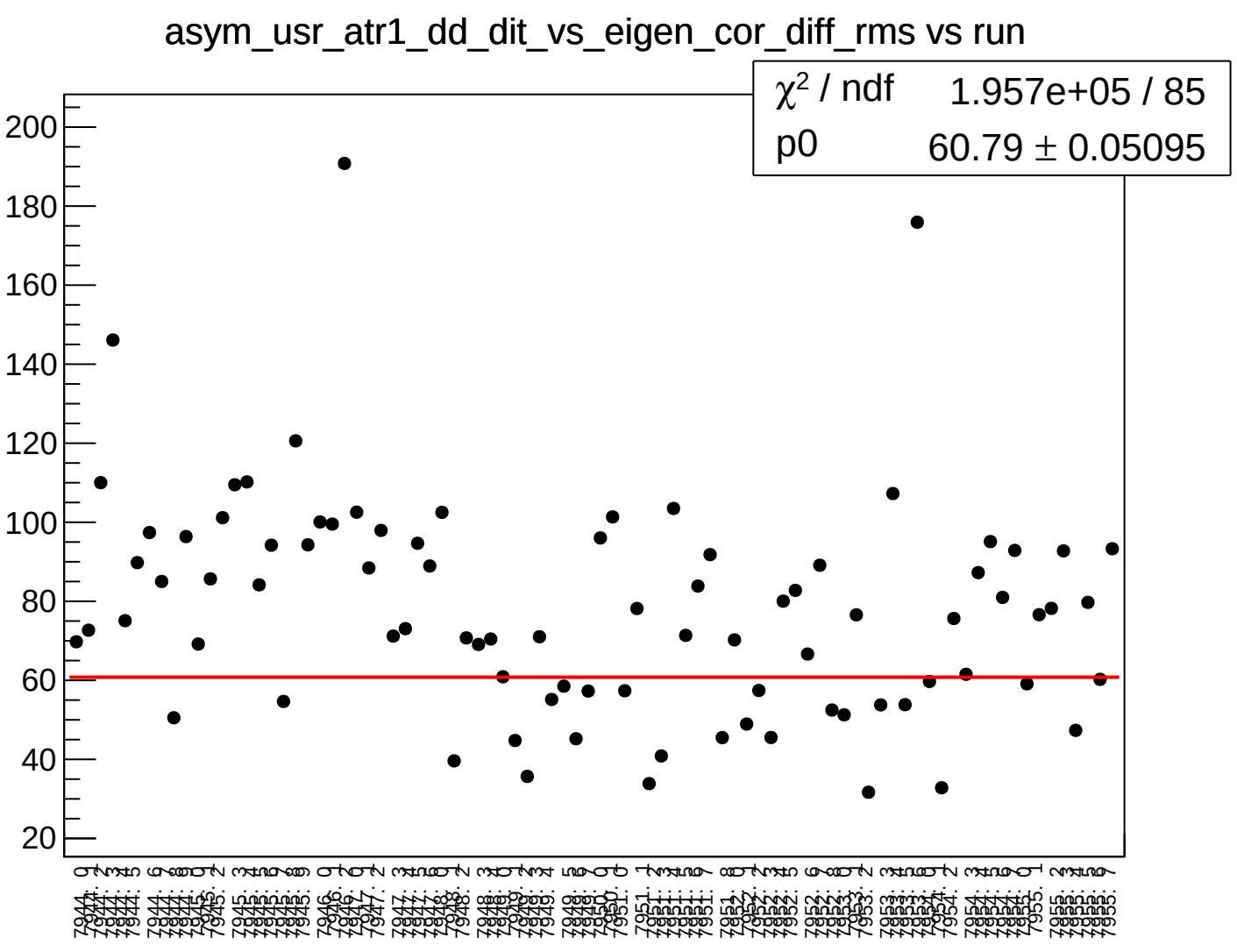

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 85
p0 1.24e−13 ± 1.359e−13
pull
Entries 86
Mean 57.25
Std Dev 23.8
pull1D
Entries 86
Mean −0.1274
Std Dev 1.073

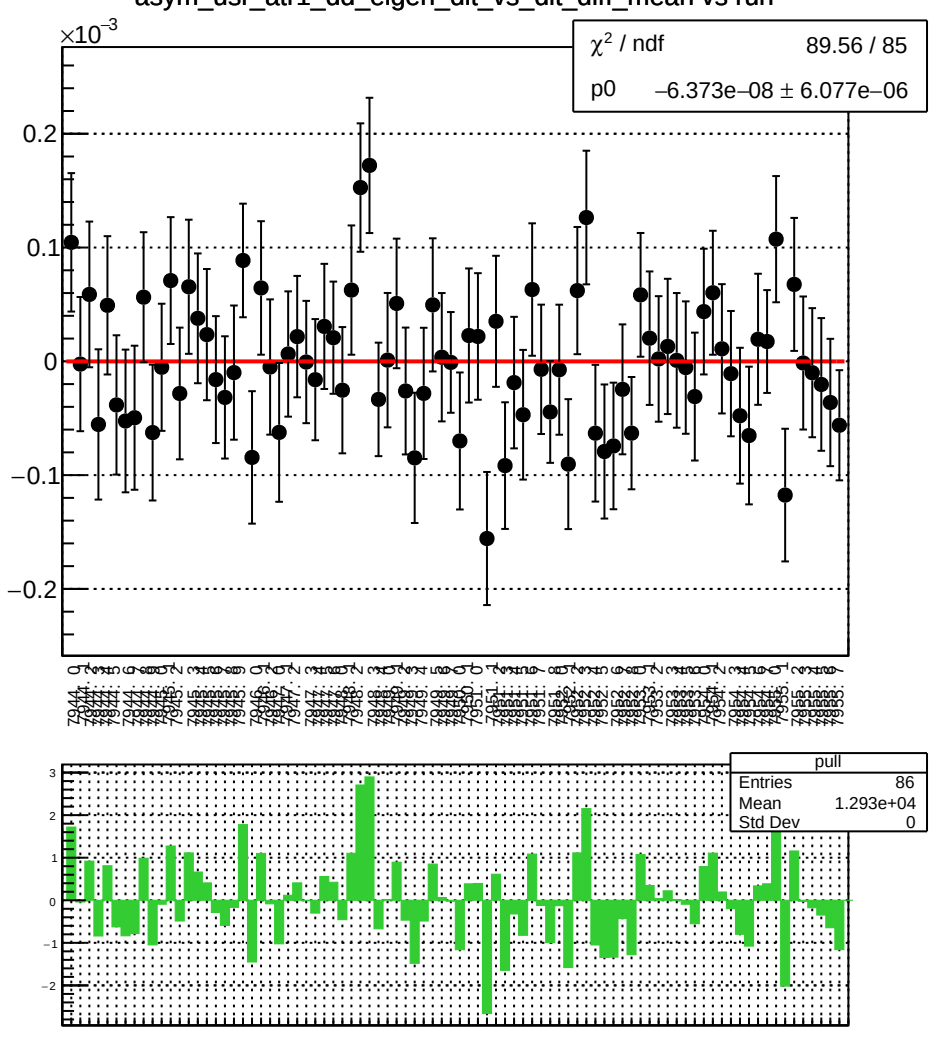

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.167e+06 / 85
p0 6.465e−11 ± 9.612e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

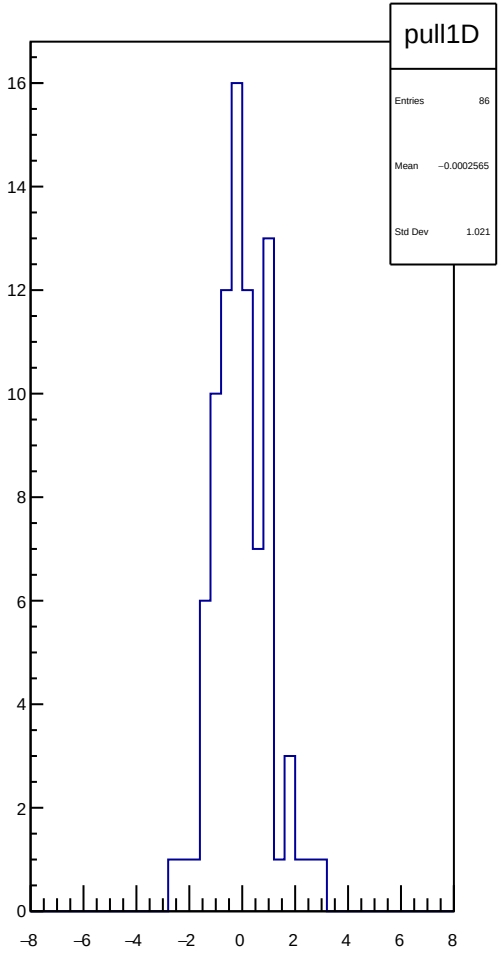

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.14 / 85
p0 −0.08068 ± 0.07205
pull
Entries 86
Mean 19.63
Std Dev 15.28
pull1D
Entries 86
Mean −0.1047
Std Dev 0.9836

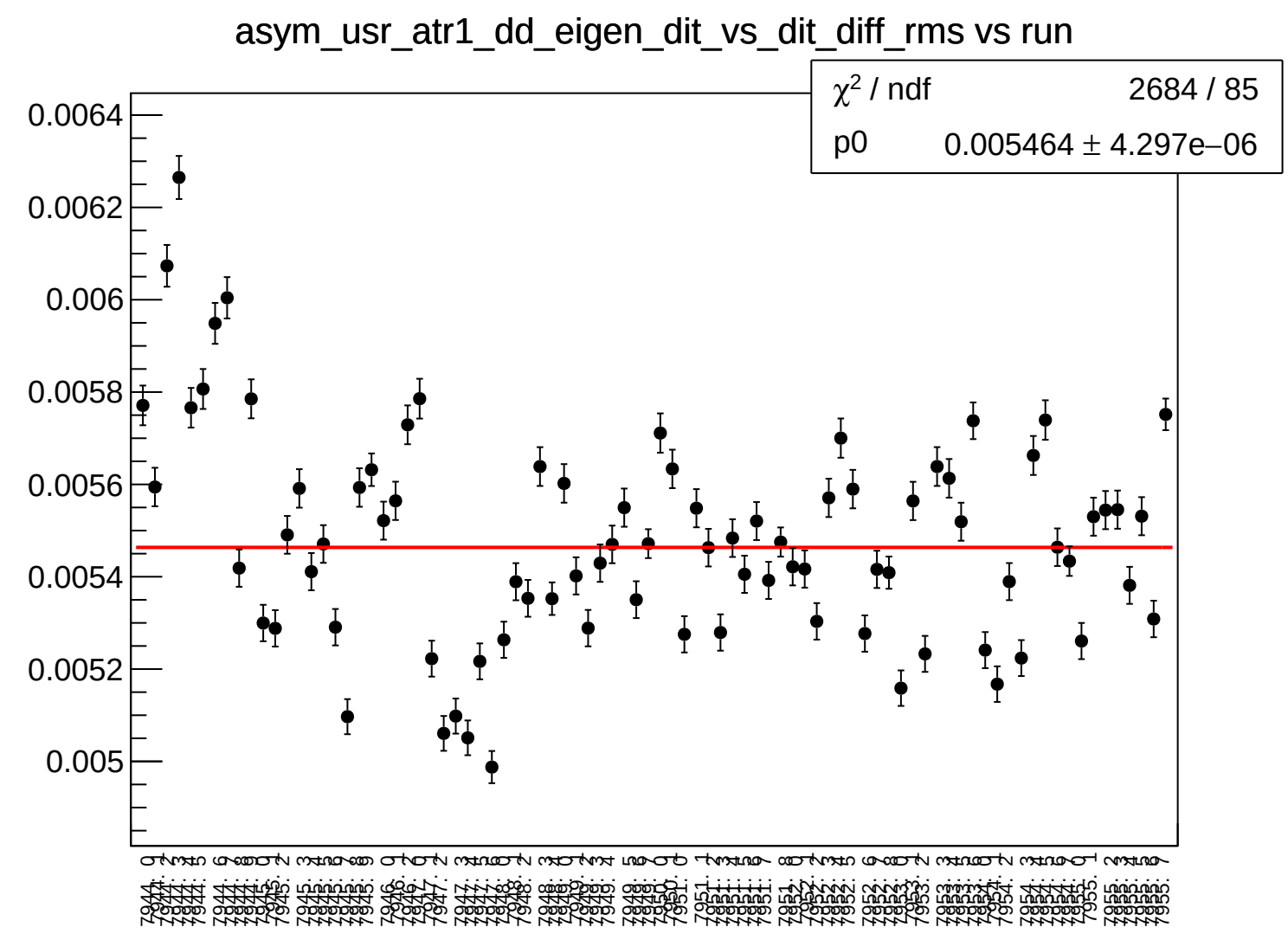

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.957e+05 / 85
p0 60.79 ± 0.05095
200
180
160
140
120
100
80
60
40
20

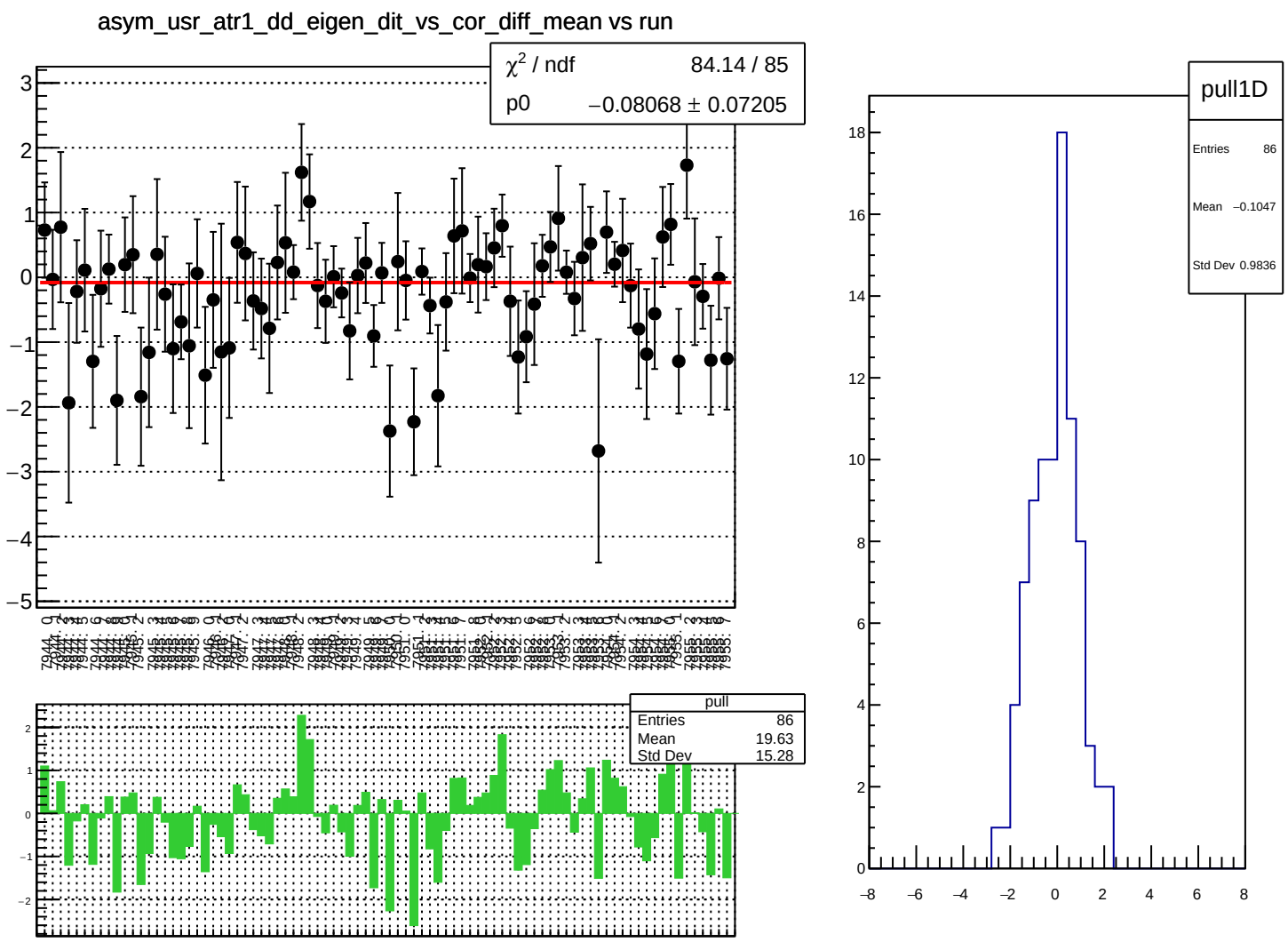

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.14 / 85
p0 −0.08068 ± 0.07205
pull
Entries 86
Mean 19.63
Std Dev 15.28
pull1D
Entries 86
Mean −0.1047
Std Dev 0.9836

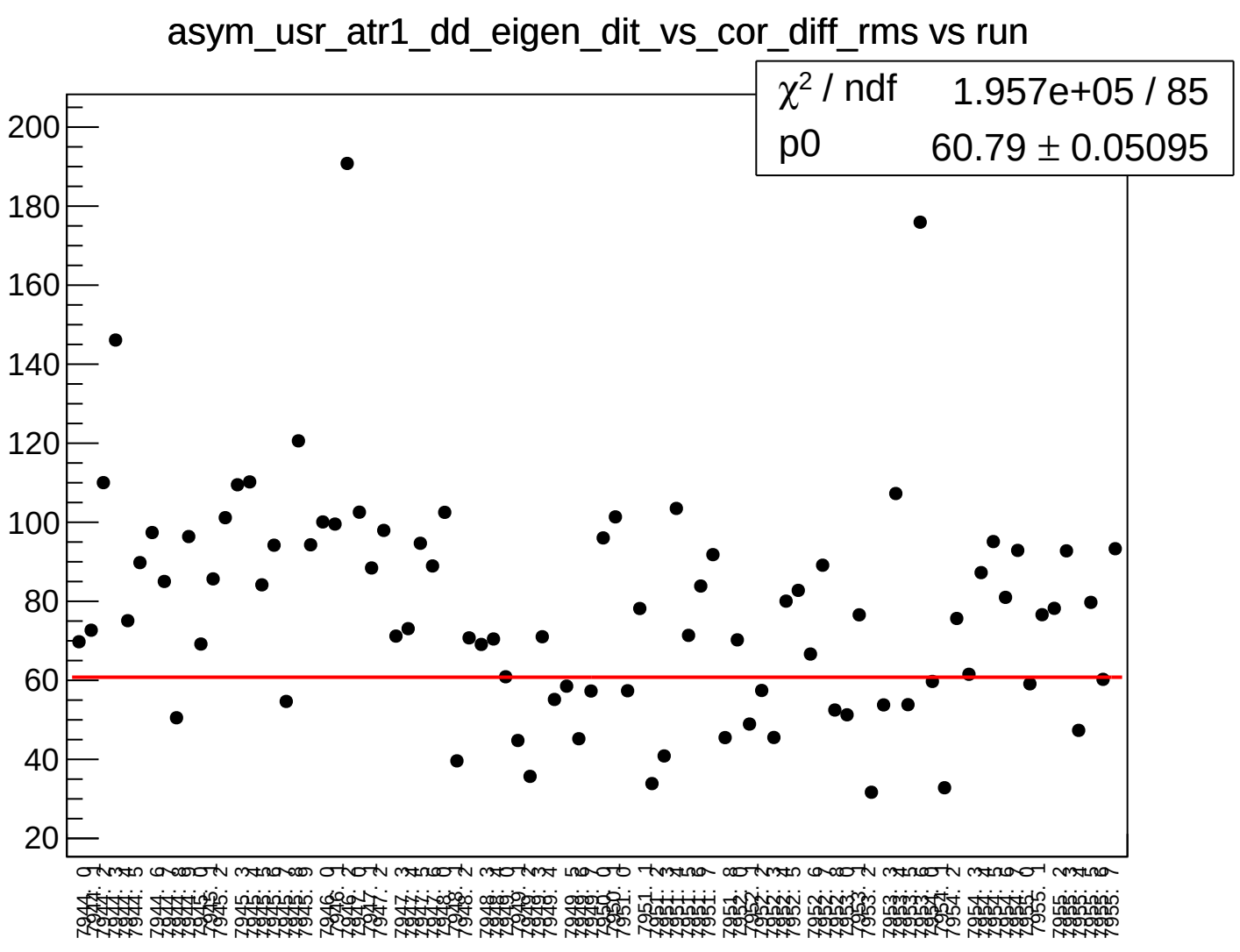

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.957e+05 / 85
p0 60.79 ± 0.05095
200
180
160
140
120
100
80
60
40
20

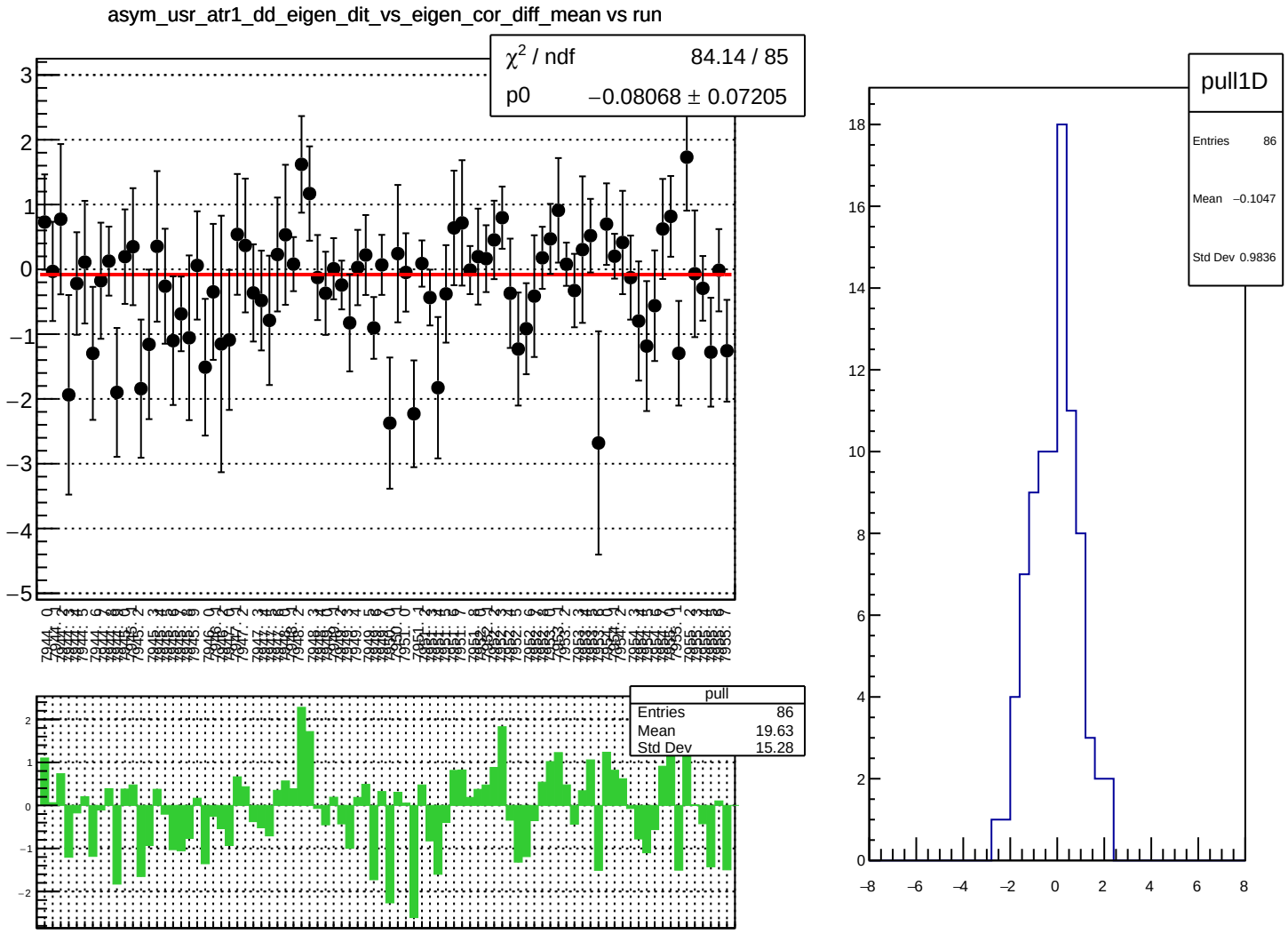

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.56 / 85
p0 −6.373e−08 ± 6.077e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean 1.293e+04
Std Dev 0
3
2
1
0
−1
−2

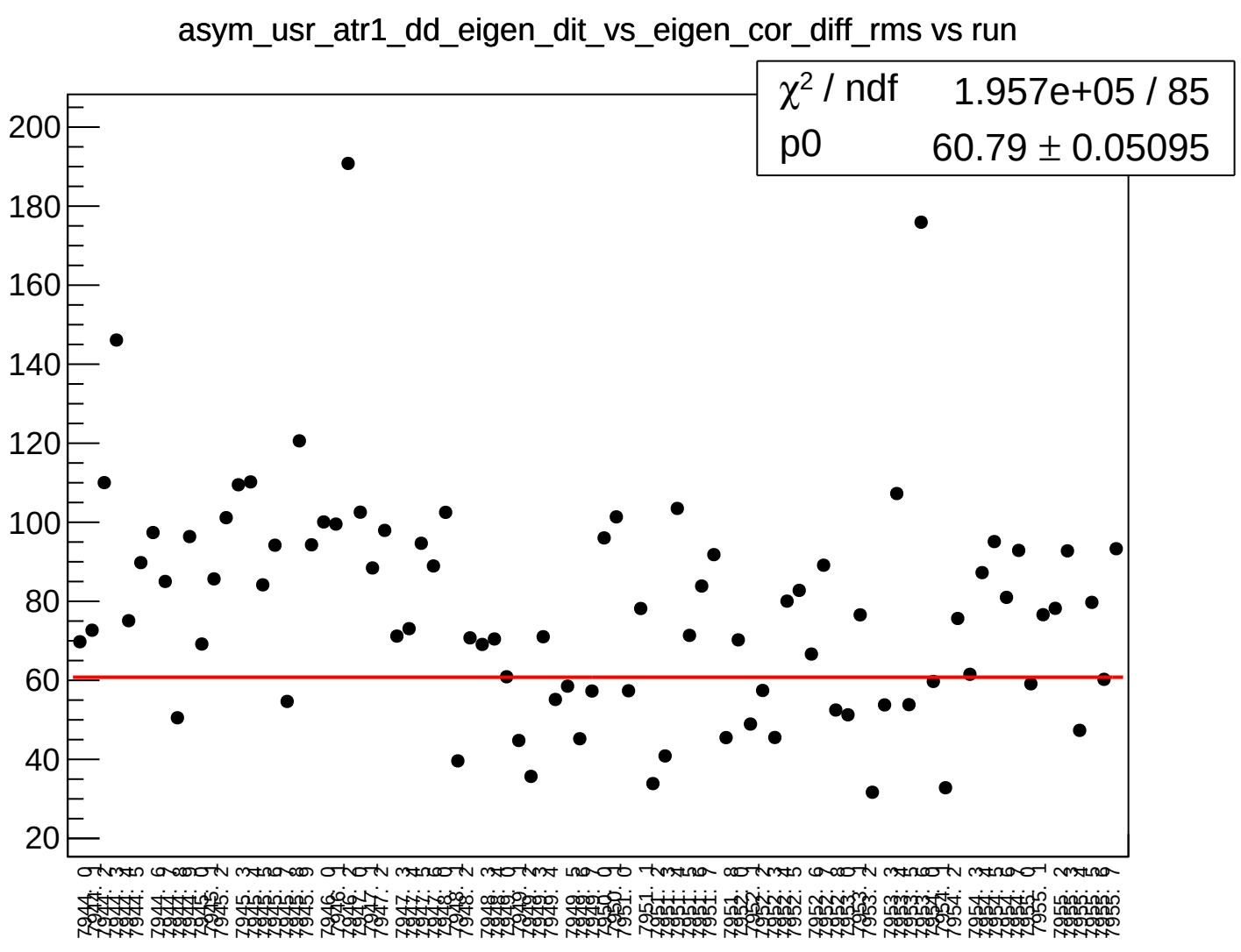

pull1D
Entries 86
Mean −0.0002565
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

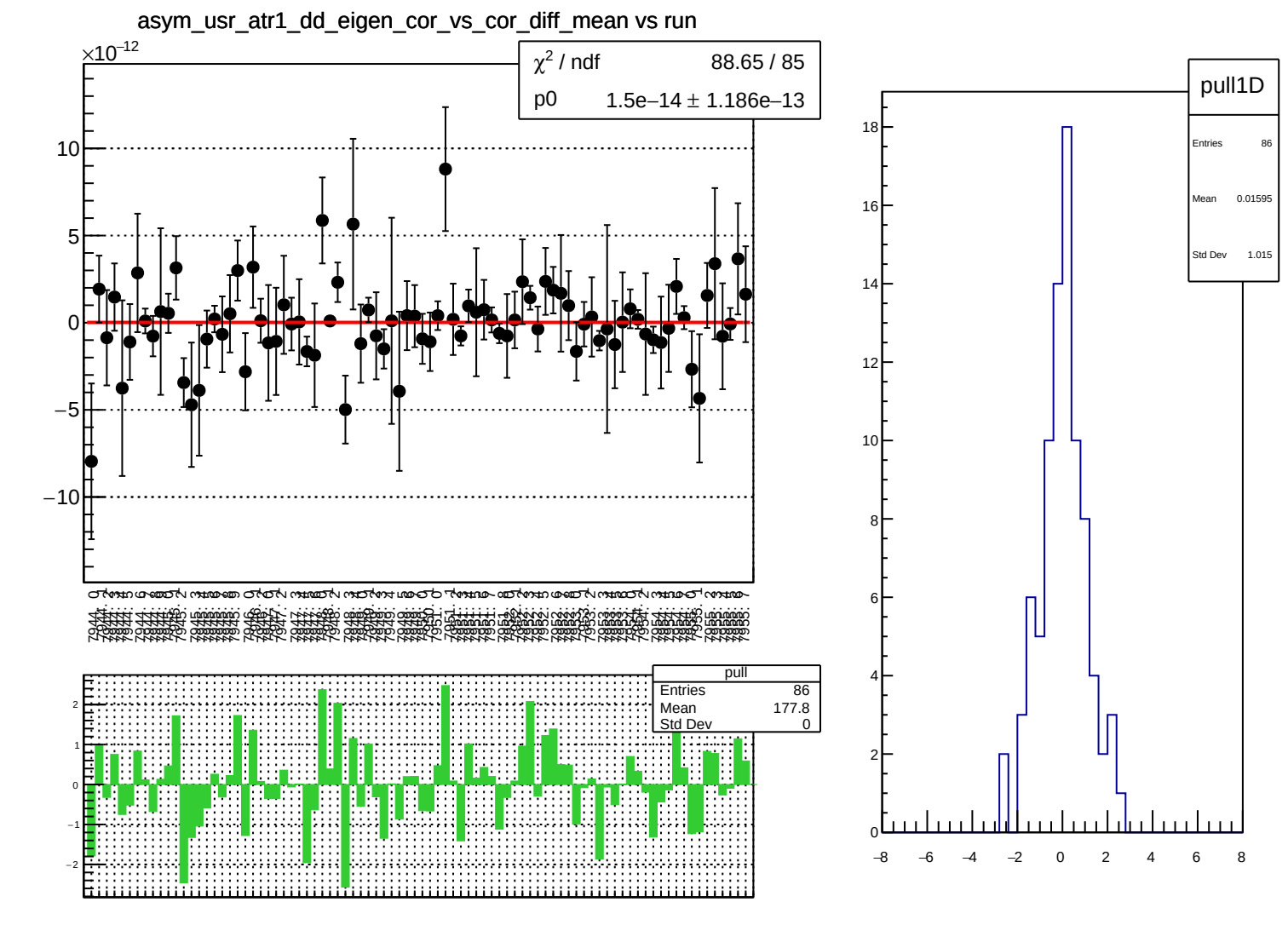

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2684 / 85
p0 0.005464 ± 4.297e−06
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005

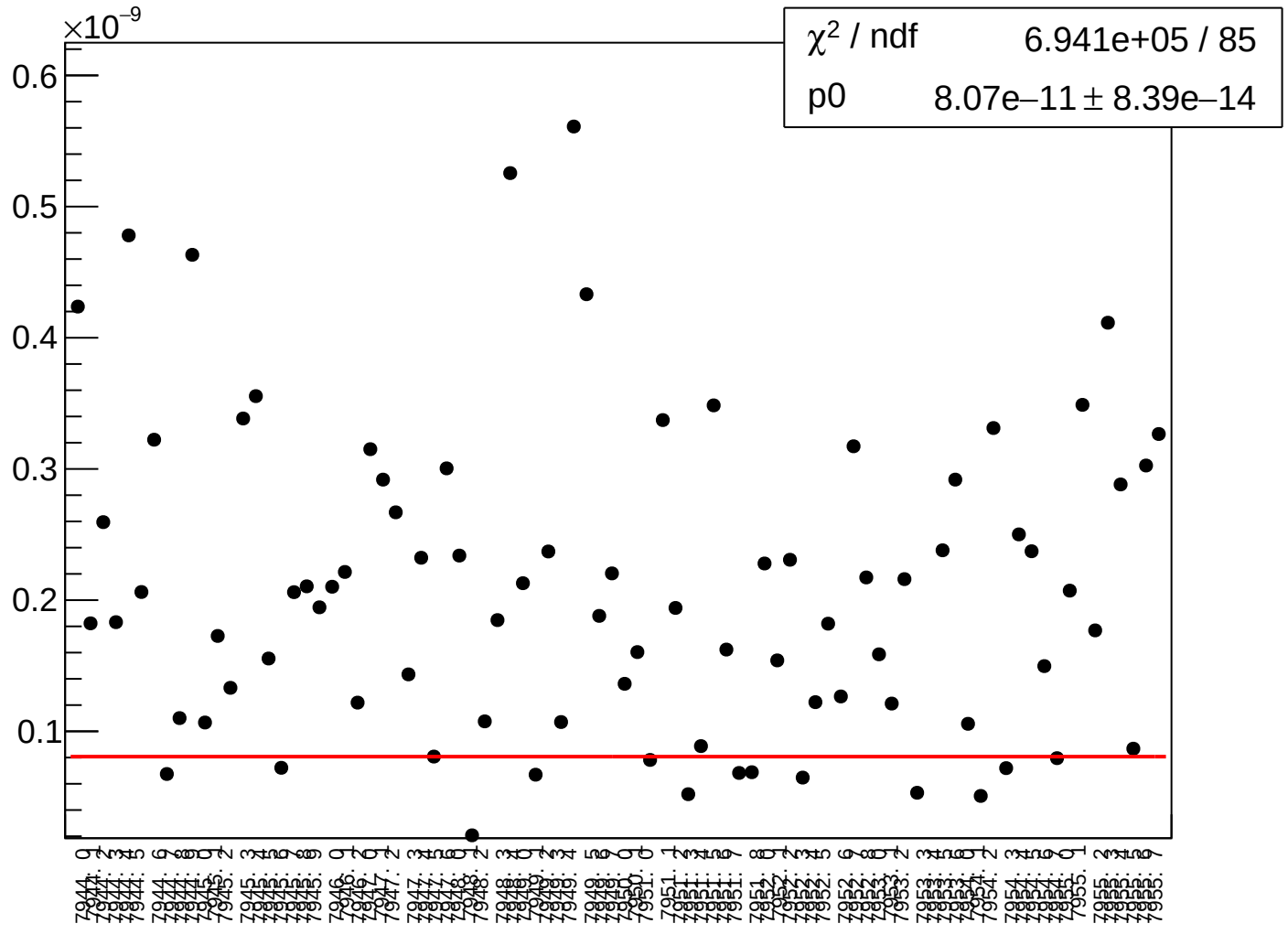

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.14 / 85
p0 −0.08068 ± 0.07205
pull
Entries 86
Mean 19.63
Std Dev 15.28
pull1D
Entries 86
Mean −0.1047
Std Dev 0.9836

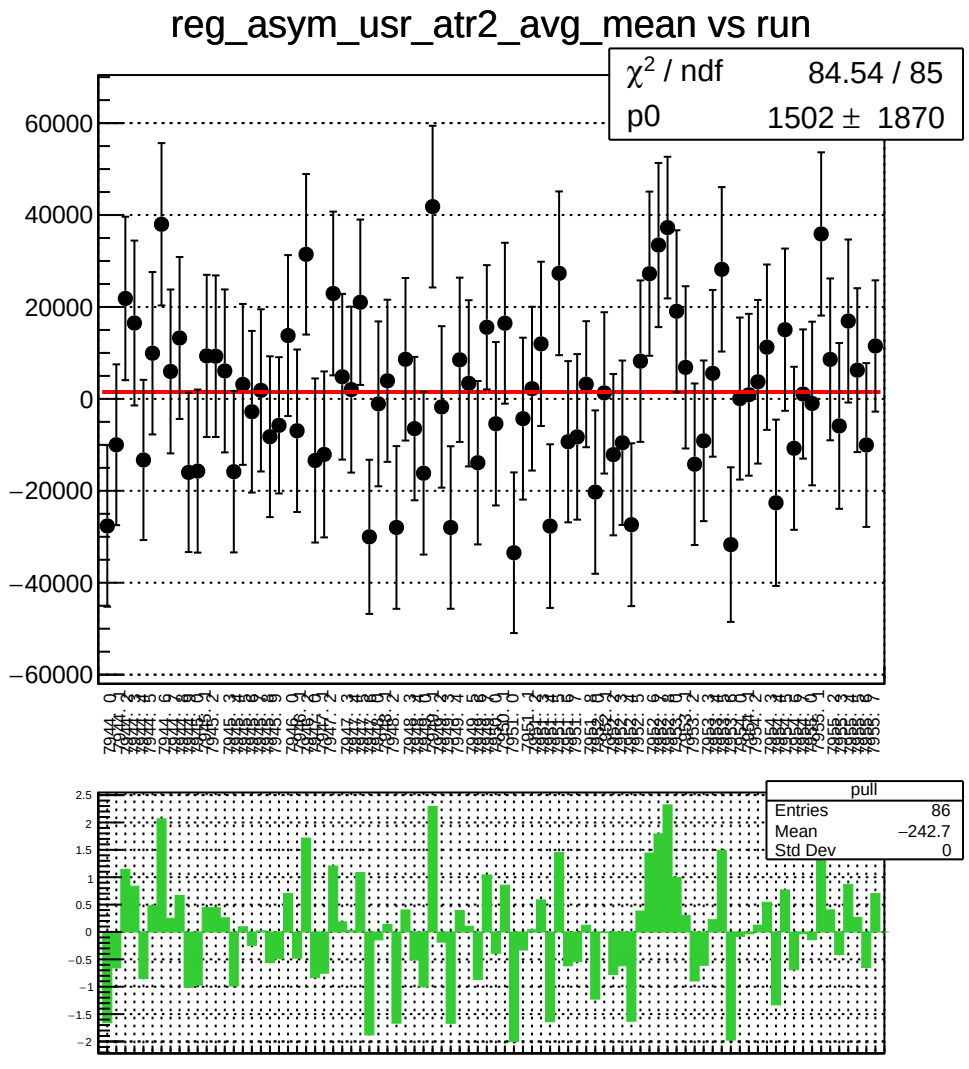

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.957e+05 / 85
p0 60.79 ± 0.05095
200
180
160
140
120
100
80
60
40
20

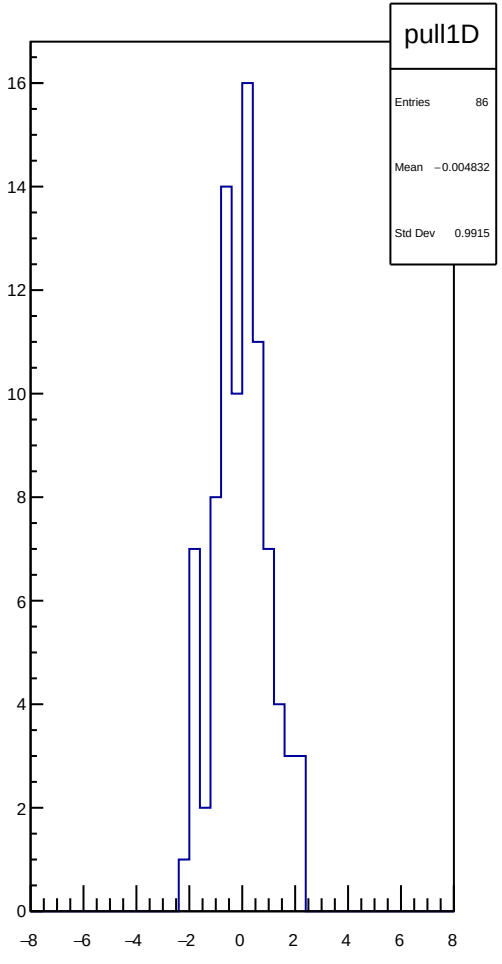

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.14 / 85
p0 −0.08068 ± 0.07205
pull
Entries 86
Mean 19.63
Std Dev 15.28
pull1D
Entries 86
Mean −0.1047
Std Dev 0.9836

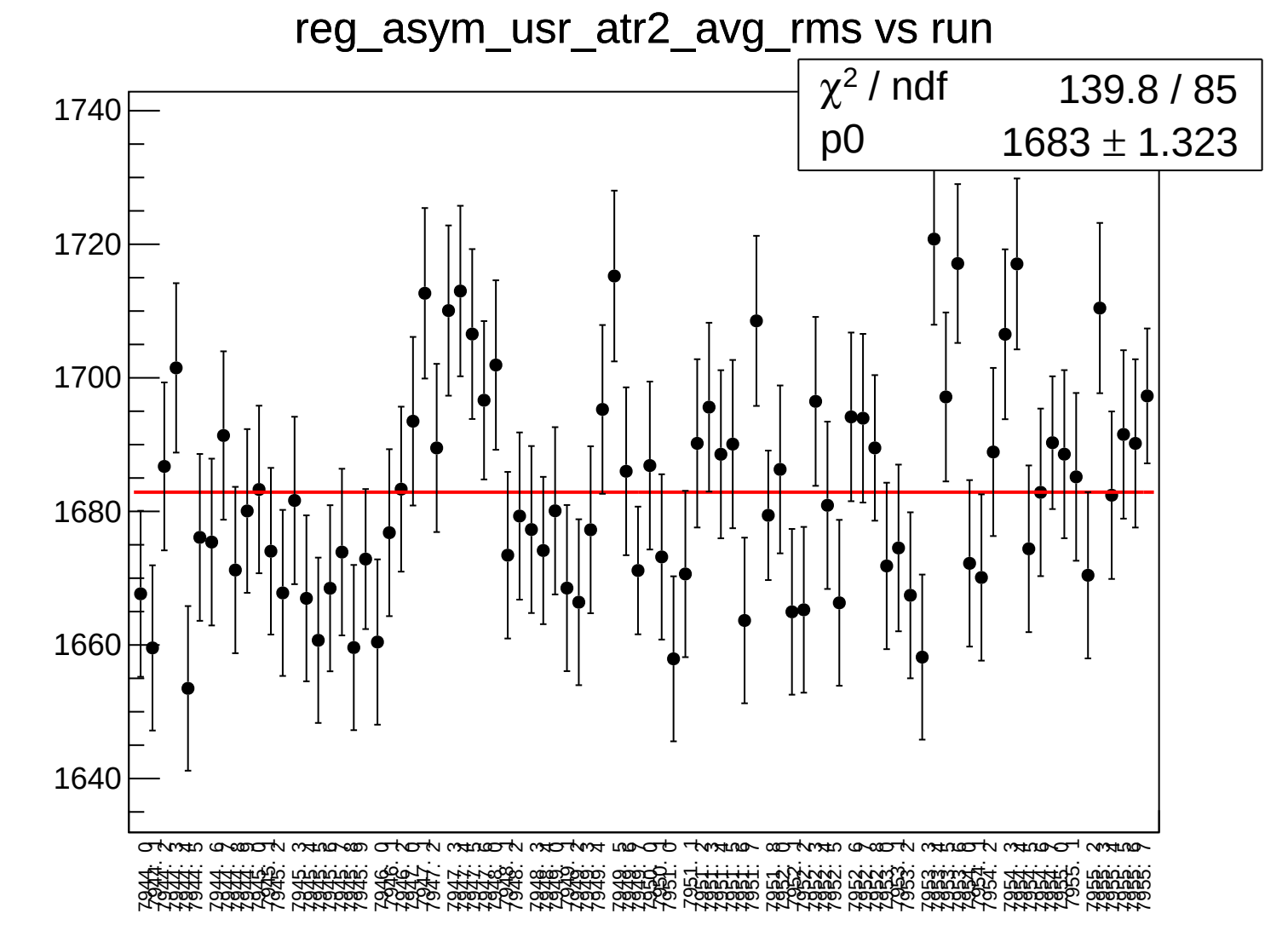

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.957e+05 / 85
p0 60.79 ± 0.05095
200
180
160
140
120
100
80
60
40
20

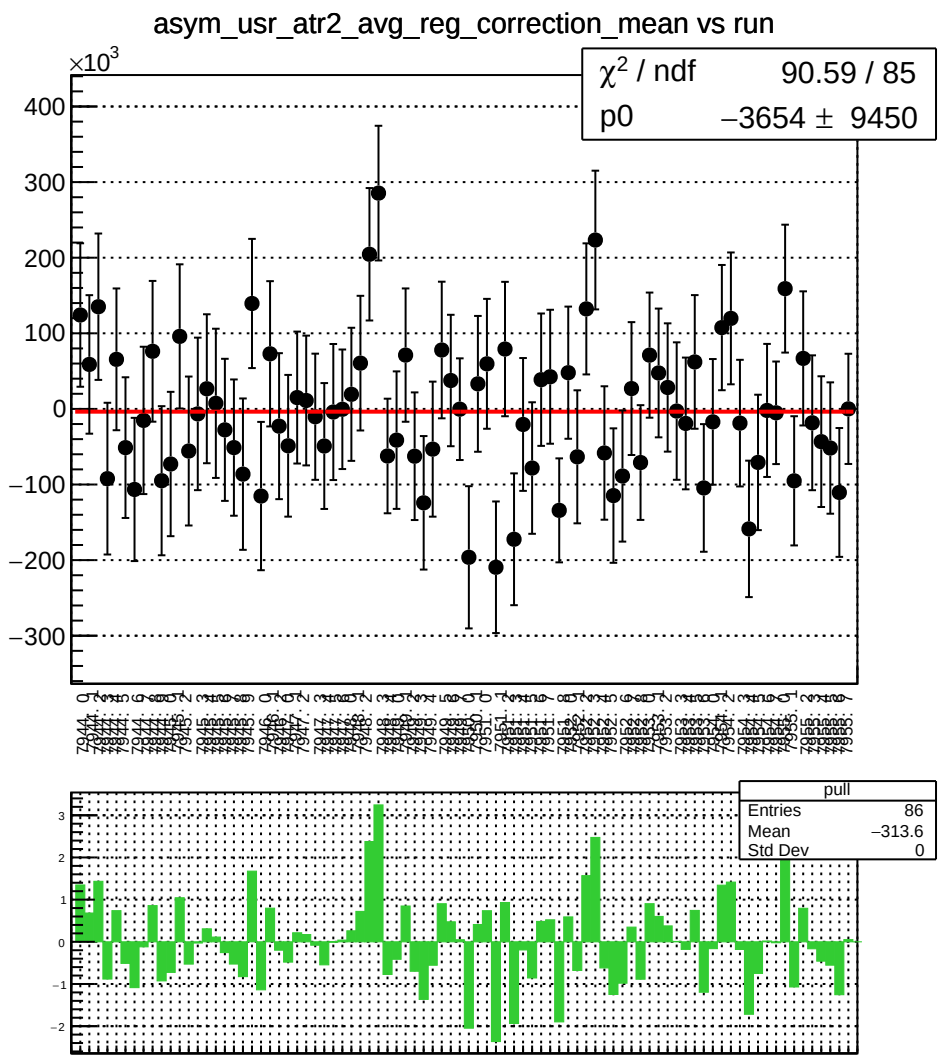

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 88.65 / 85
p0 1.5e−14 ± 1.186e−13
pull
Entries 86
Mean 177.8
Std Dev 0
pull1D
Entries 86
Mean 0.01595
Std Dev 1.015

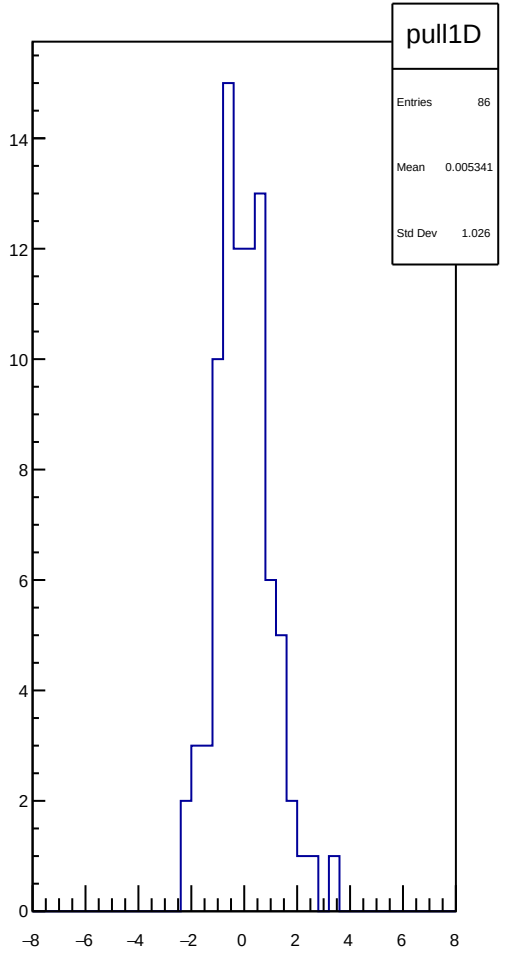

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.941e+05 / 85
p0 8.07e−11 ± 8.39e−14
0.6
0.5
0.4
0.3
0.2
0.1

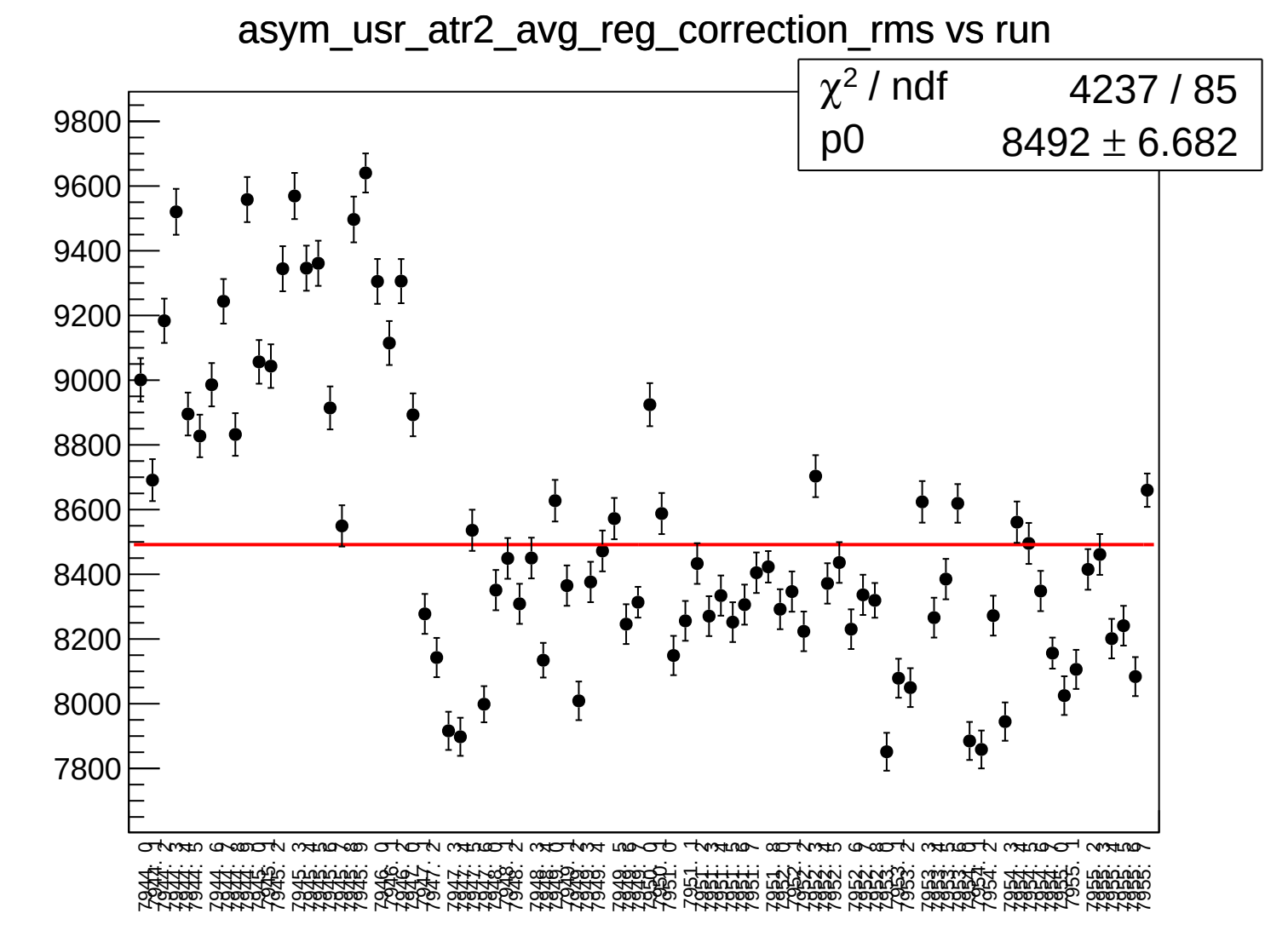

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.54 / 85
p0 1502 ± 1870
pull
Entries 86
Mean −242.7
Std Dev 0

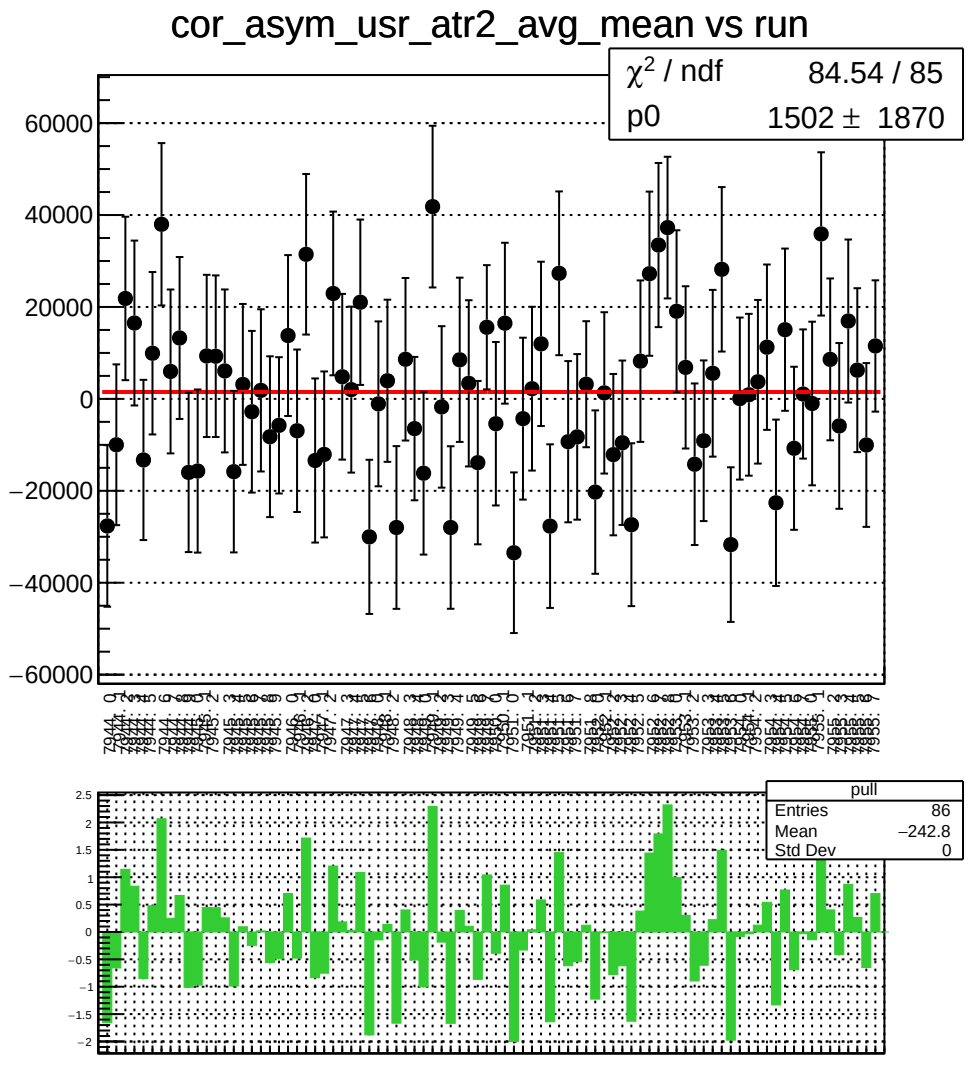

pull1D
Entries 86
Mean −0.004832
Std Dev 0.9915

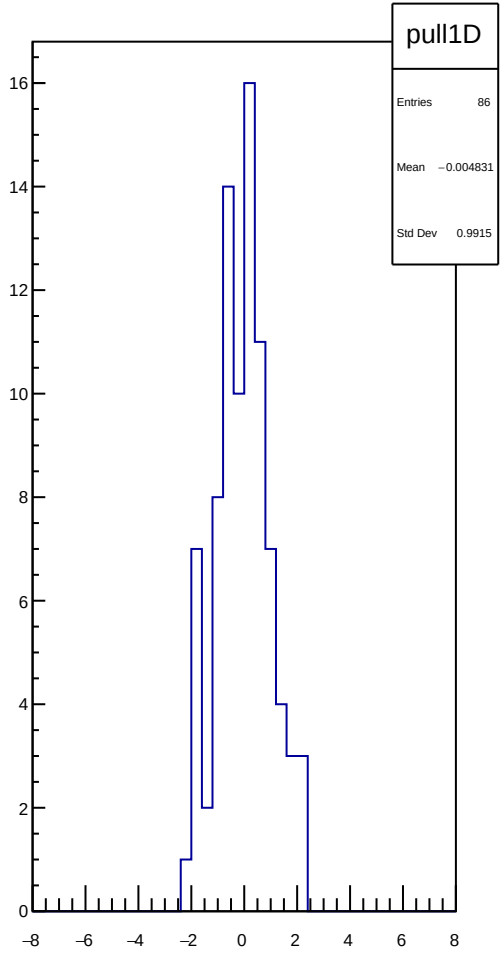

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 139.8 / 85
p0 1683 ± 1.323
1740
1720
1700
1680
1660
1640

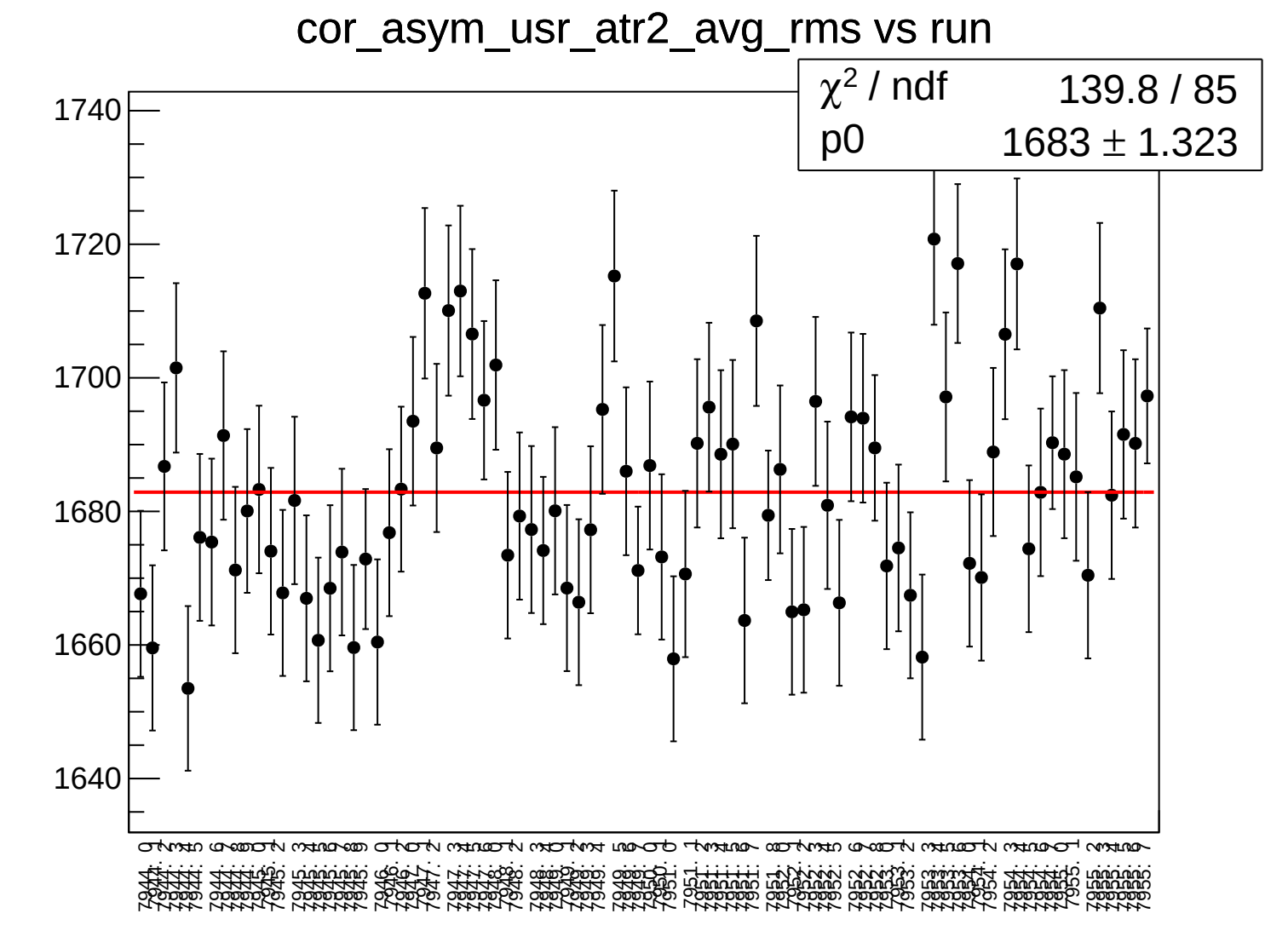

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.59 / 85
p0 −3654 ± 9450
pull
Entries 86
Mean −313.6
Std Dev 0

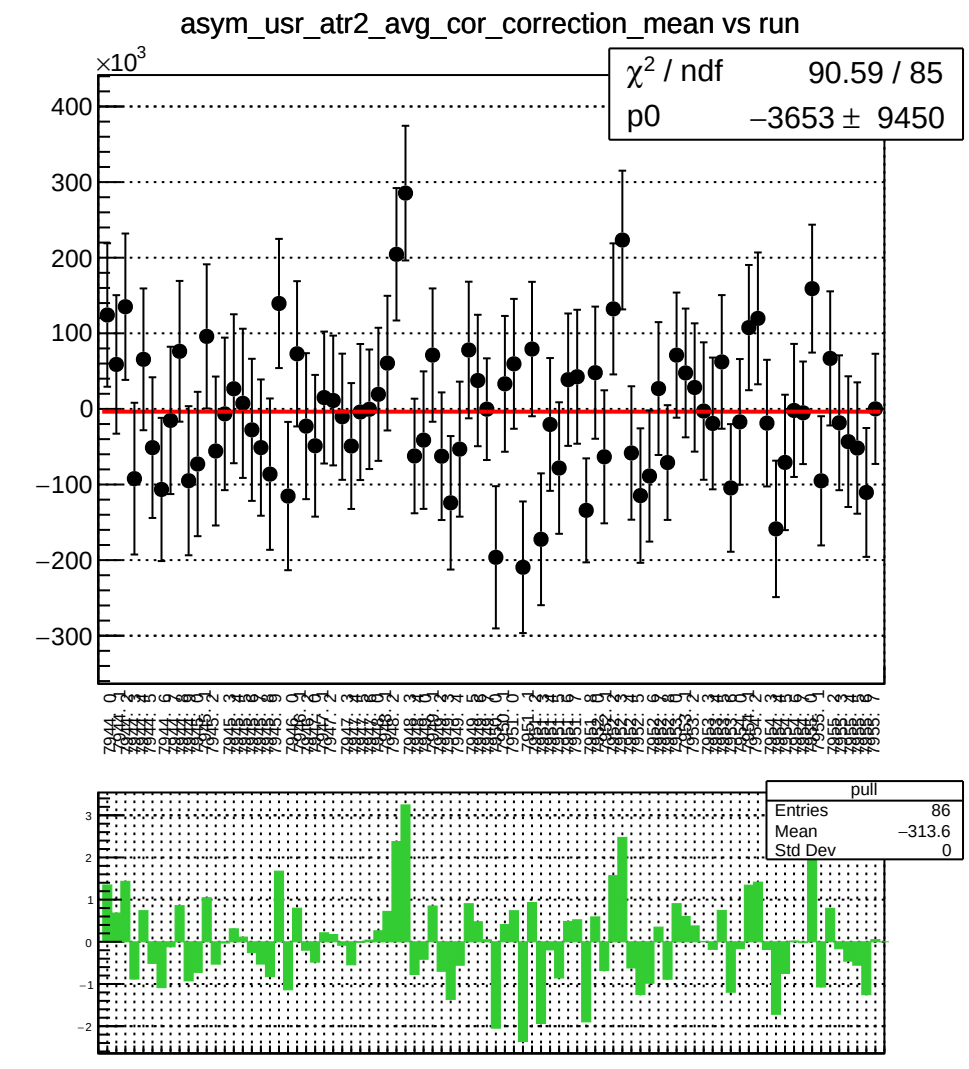

pull1D
Entries 86
Mean 0.005341
Std Dev 1.026

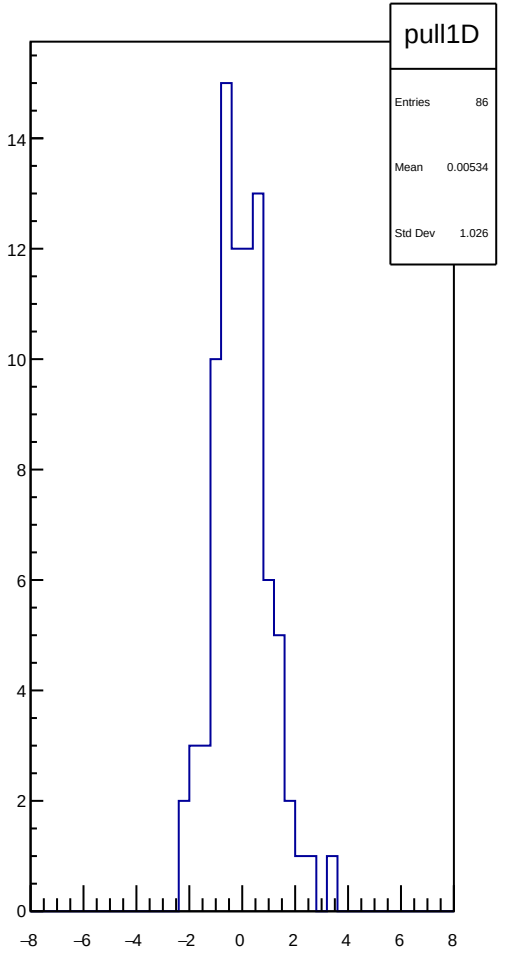

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 4237 / 85
p0 8492 ± 6.682
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

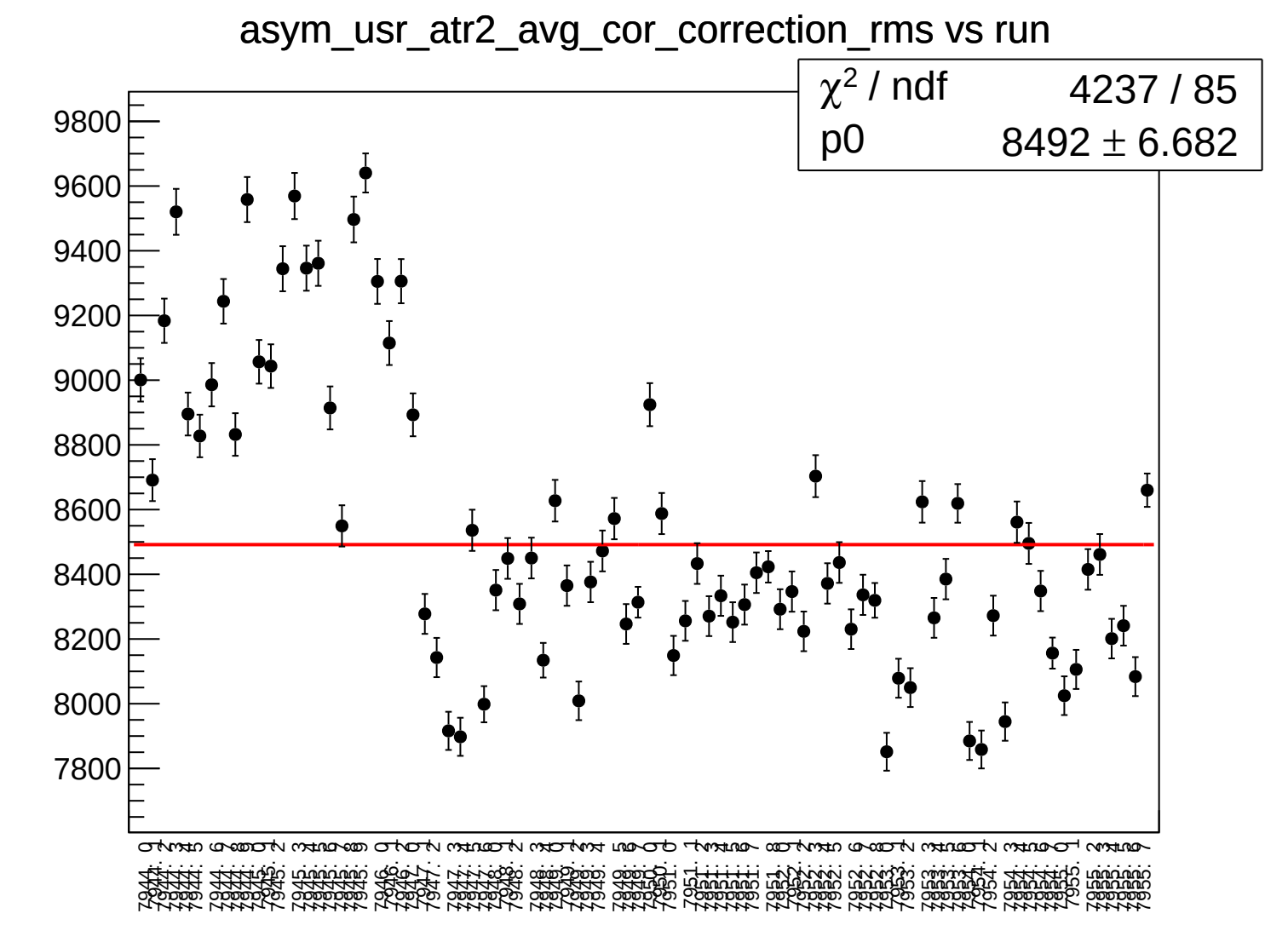

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.54 / 85
p0 1502 ± 1870
pull
Entries 86
Mean −242.8
Std Dev 0

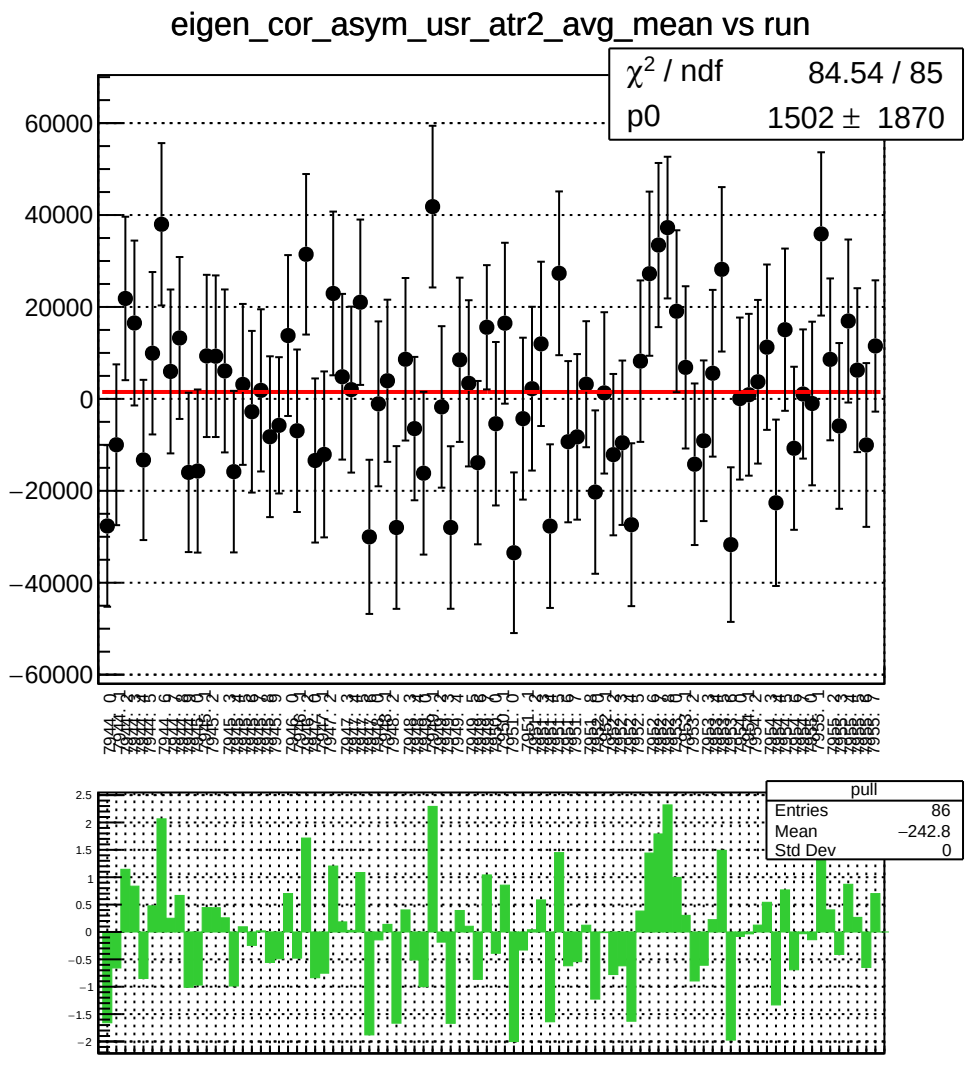

pull1D
Entries 86
Mean −0.004831
Std Dev 0.9915

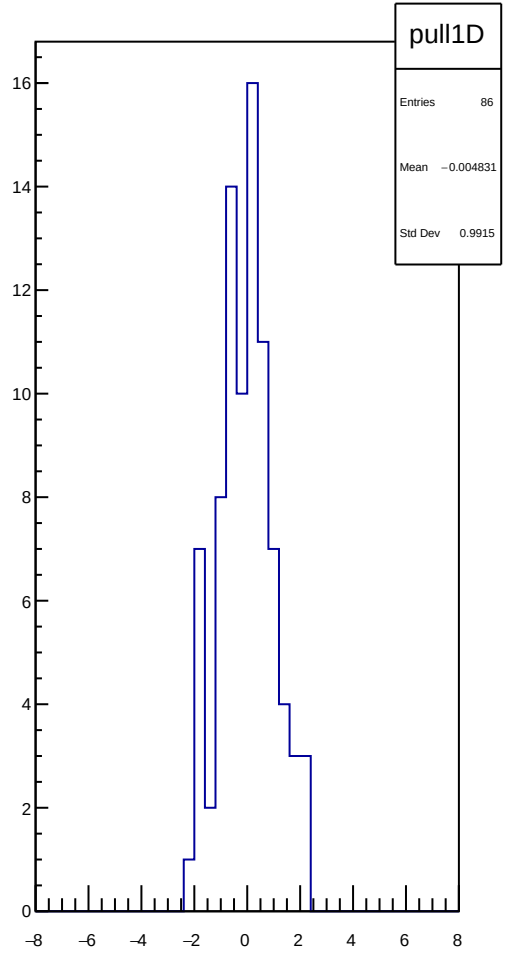

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 139.8 / 85
p0 1683 ± 1.323
1740
1720
1700
1680
1660
1640

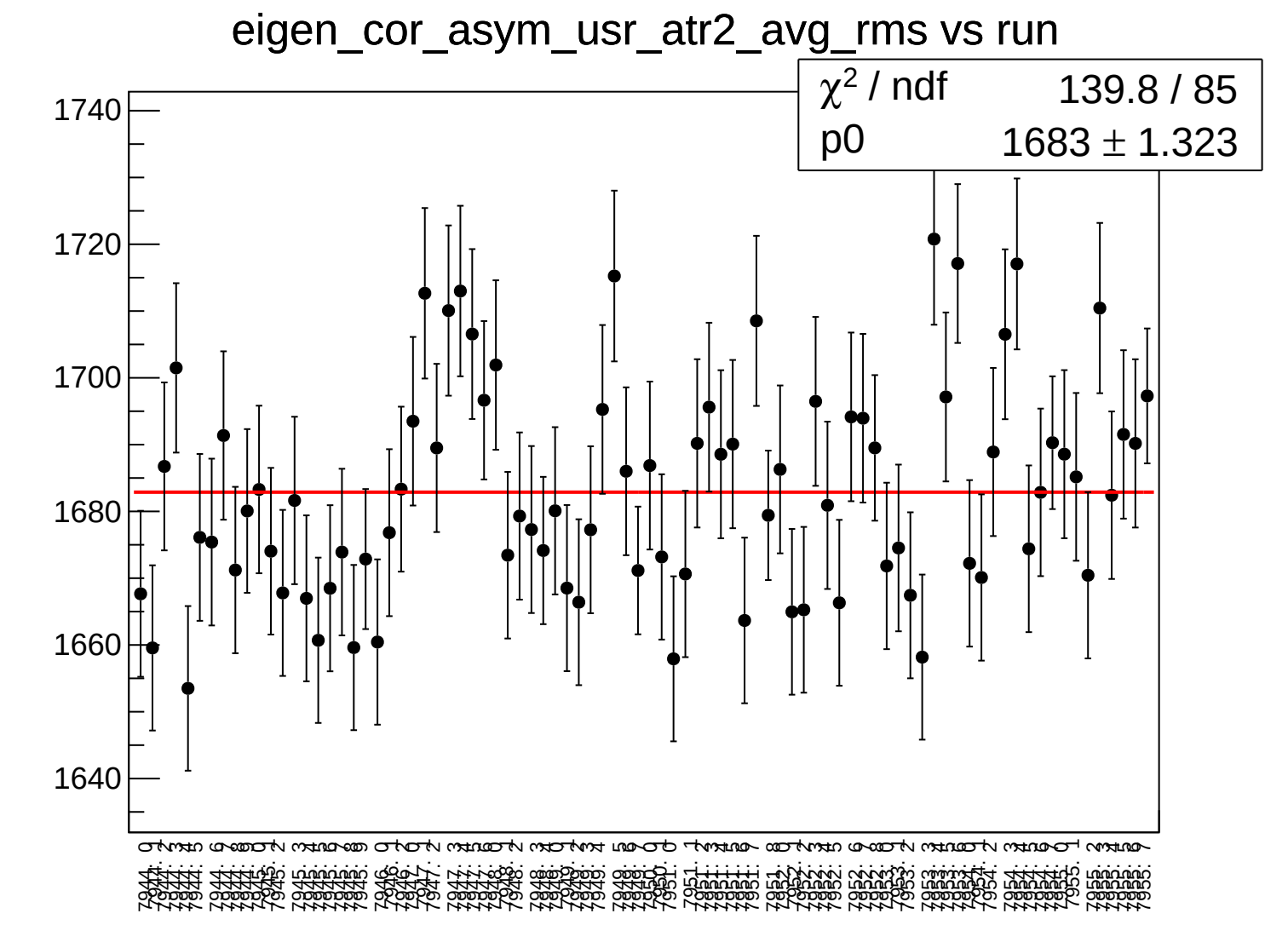

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.59 / 85
p0 −3653 ± 9450
400
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −313.6
Std Dev 0
3
2
1
0
−1
−2

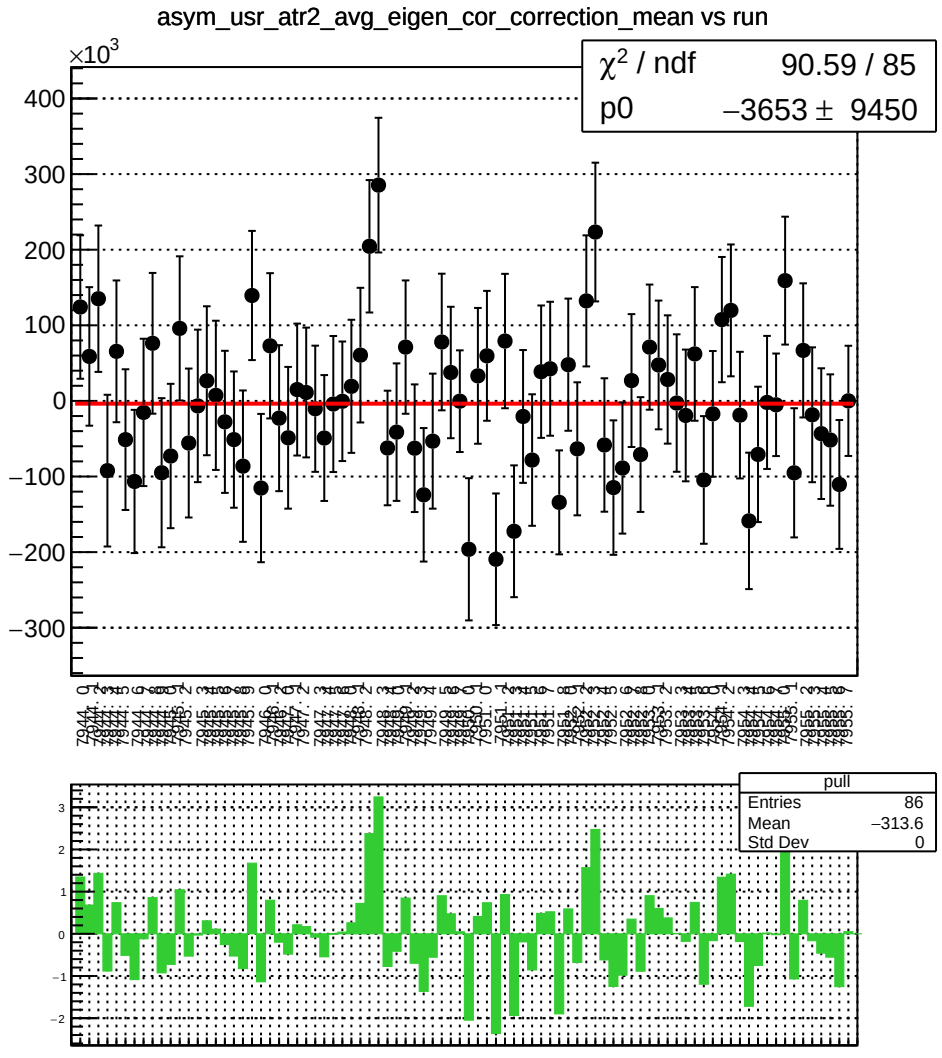

pull1D
Entries 86
Mean 0.00534
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

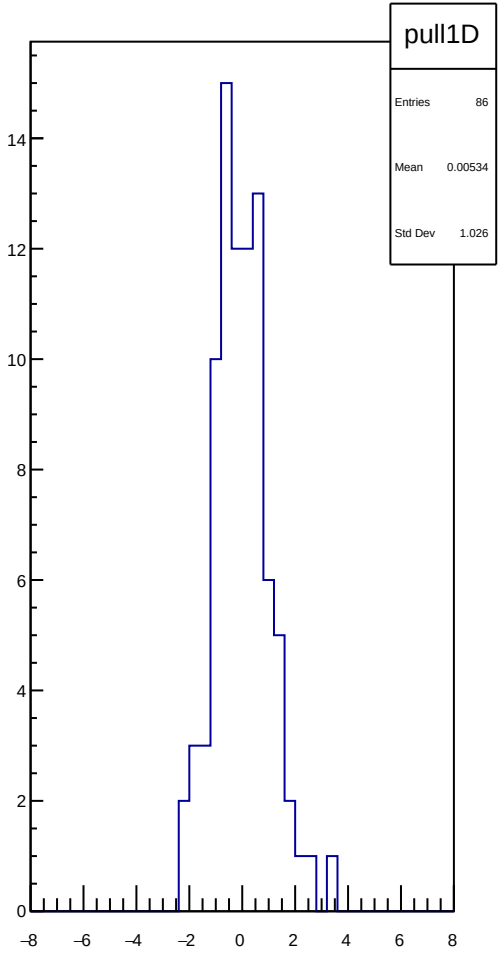

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 4237 / 85
p0 8492 ± 6.682
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

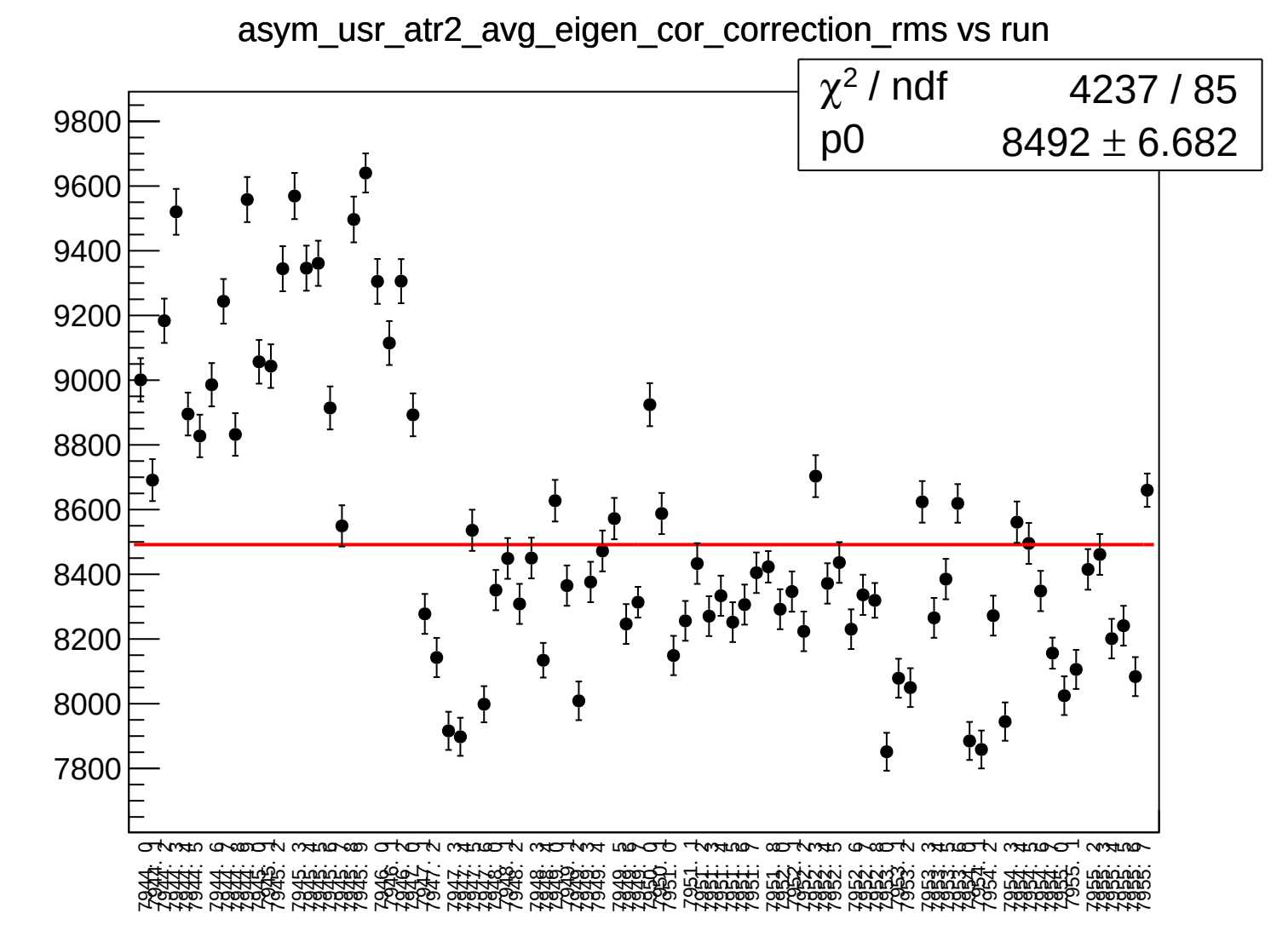

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.54 / 85
p0 1502 ± 1870
pull
Entries 86
Mean −242.8
Std Dev 0

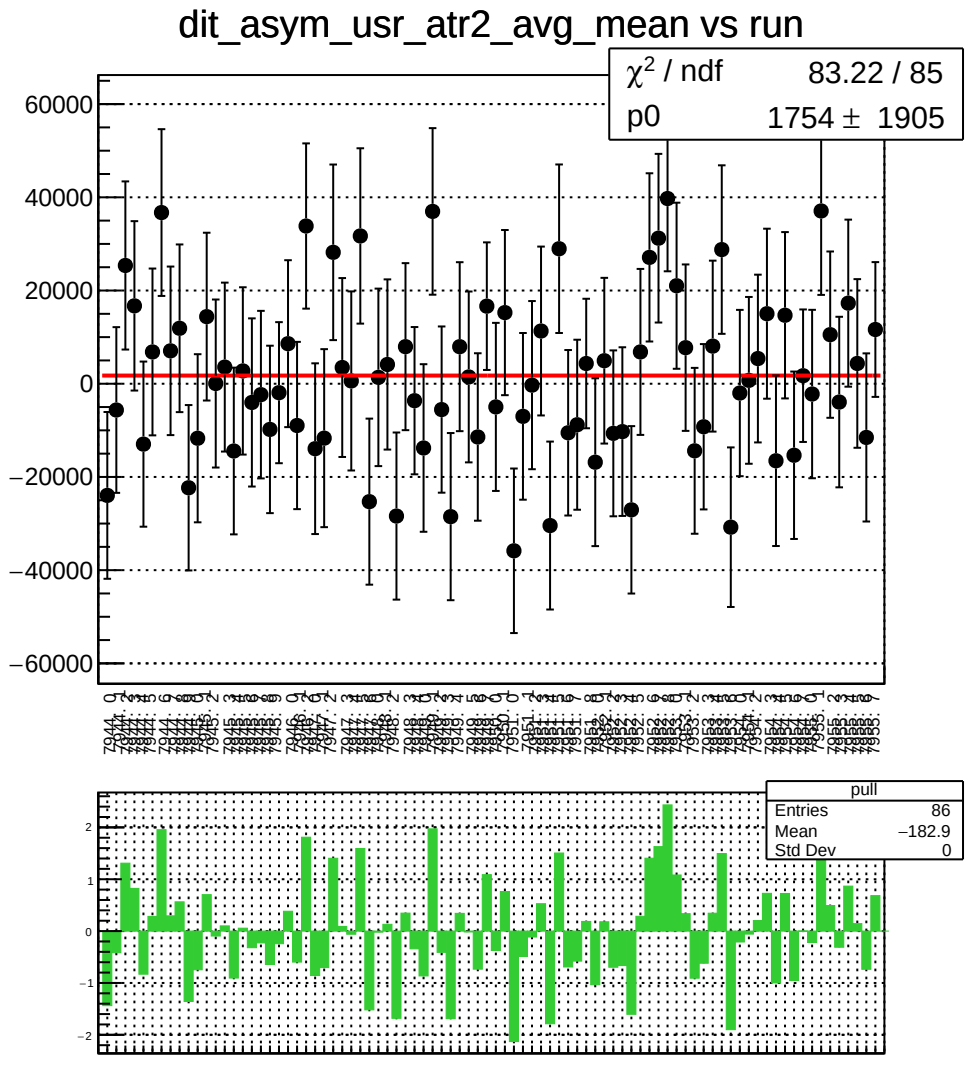

pull1D
Entries 86
Mean −0.004831
Std Dev 0.9915

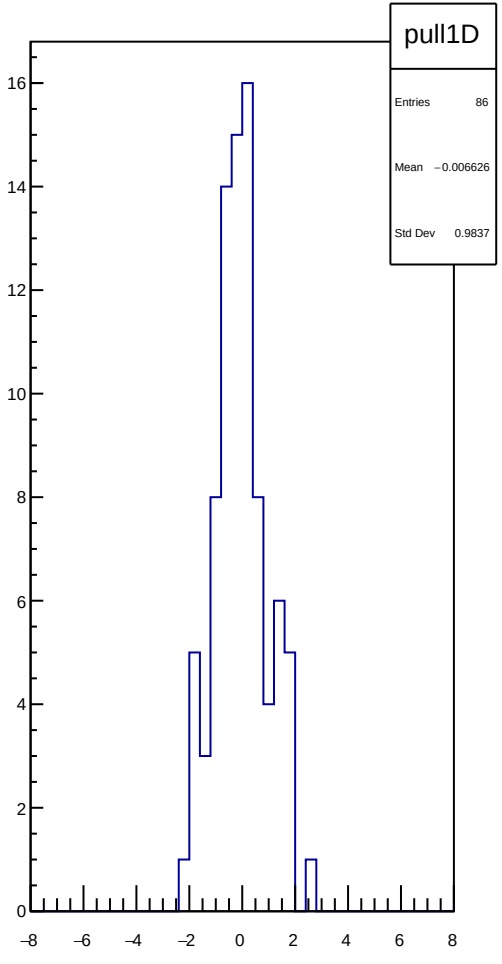

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 139.8 / 85
p0 1683 ± 1.323
1740
1720
1700
1680
1660
1640

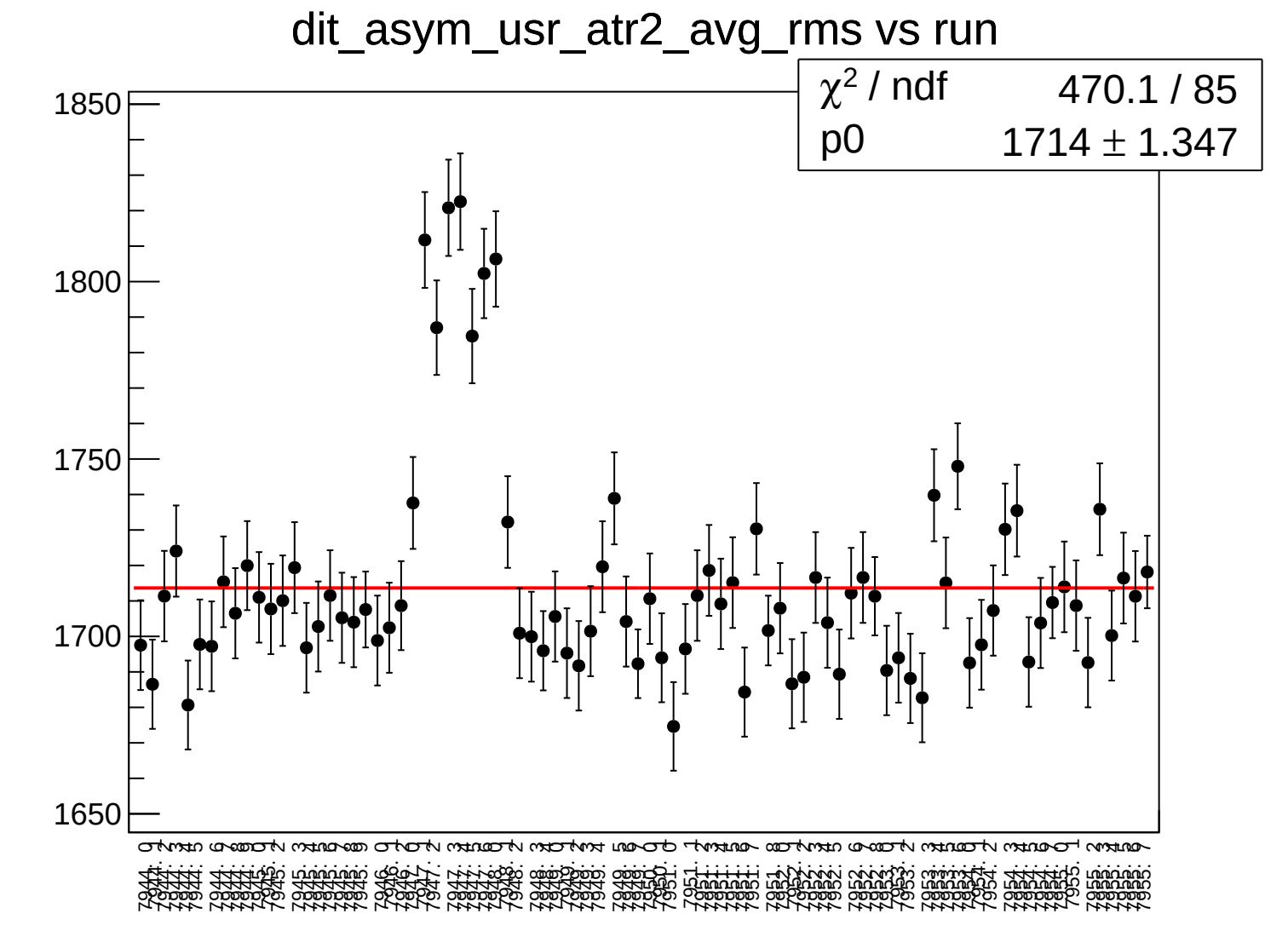

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.59 / 85
p0 −3653 ± 9450
pull
Entries 86
Mean −313.6
Std Dev 0

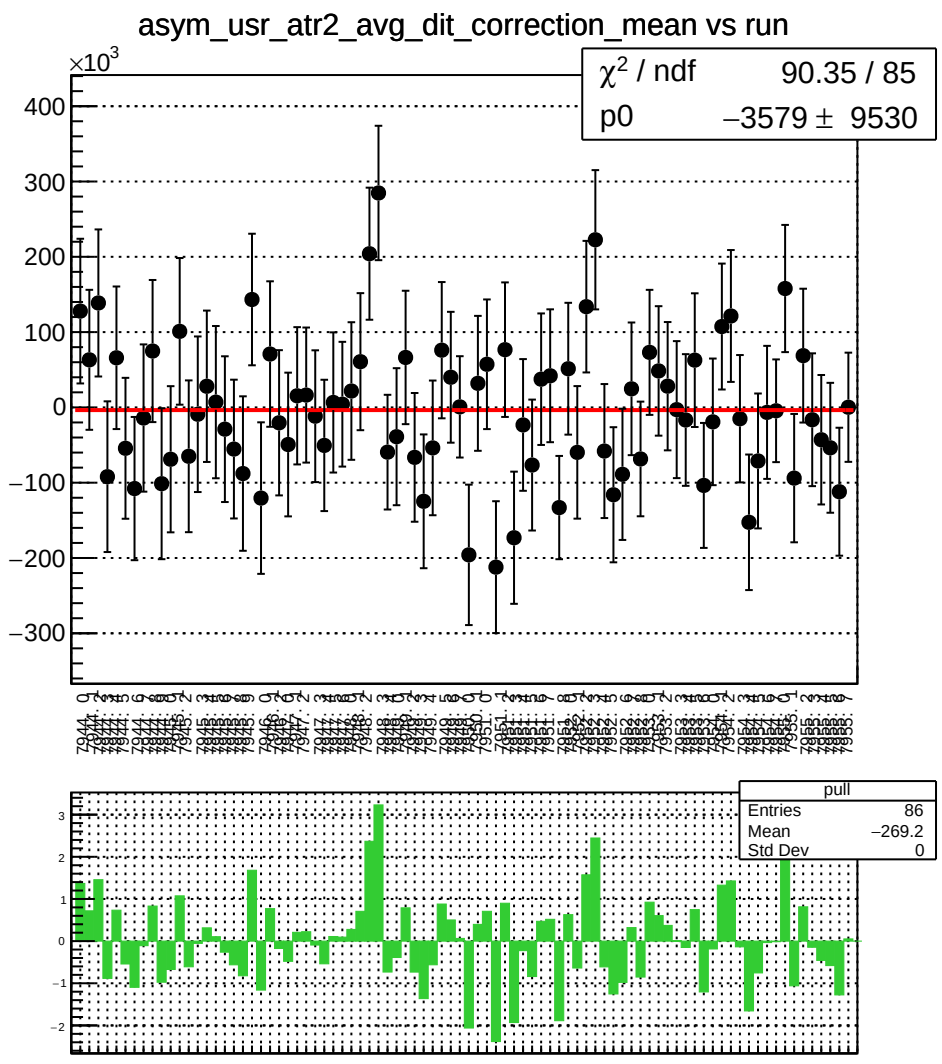

pull1D
Entries 86
Mean 0.00534
Std Dev 1.026

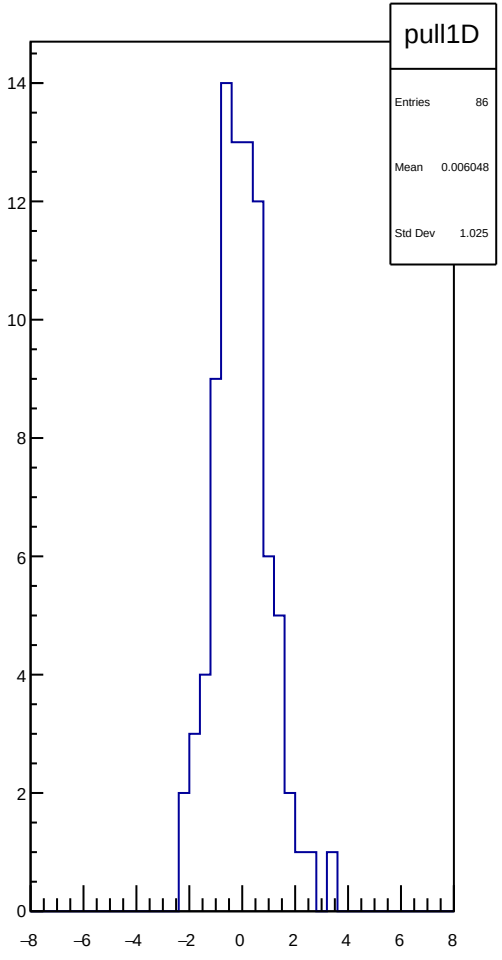

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4237 / 85
p0 8492 ± 6.682
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

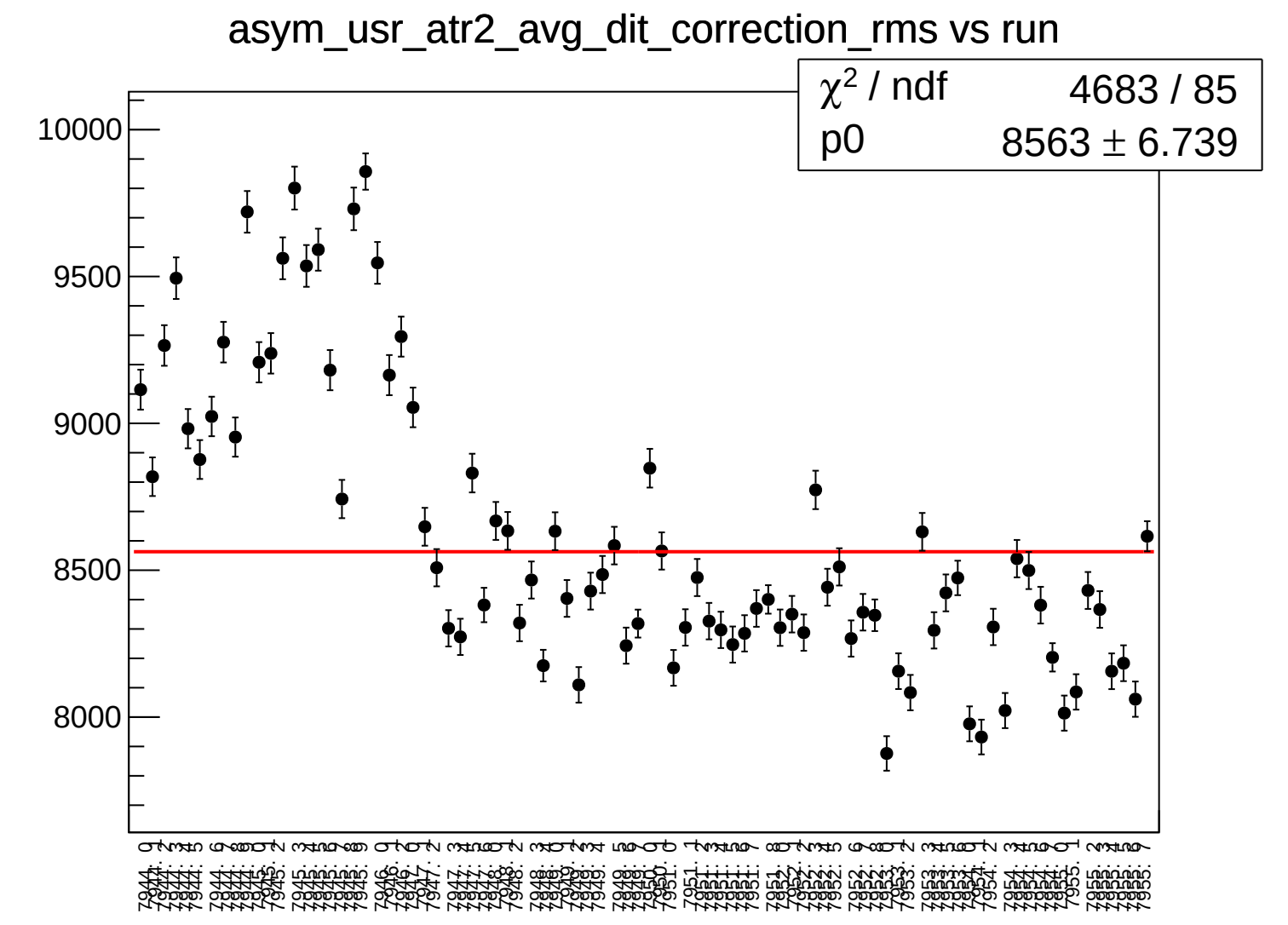

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 83.22 / 85
p0 1754 ± 1905
pull
Entries 86
Mean −182.9
Std Dev 0

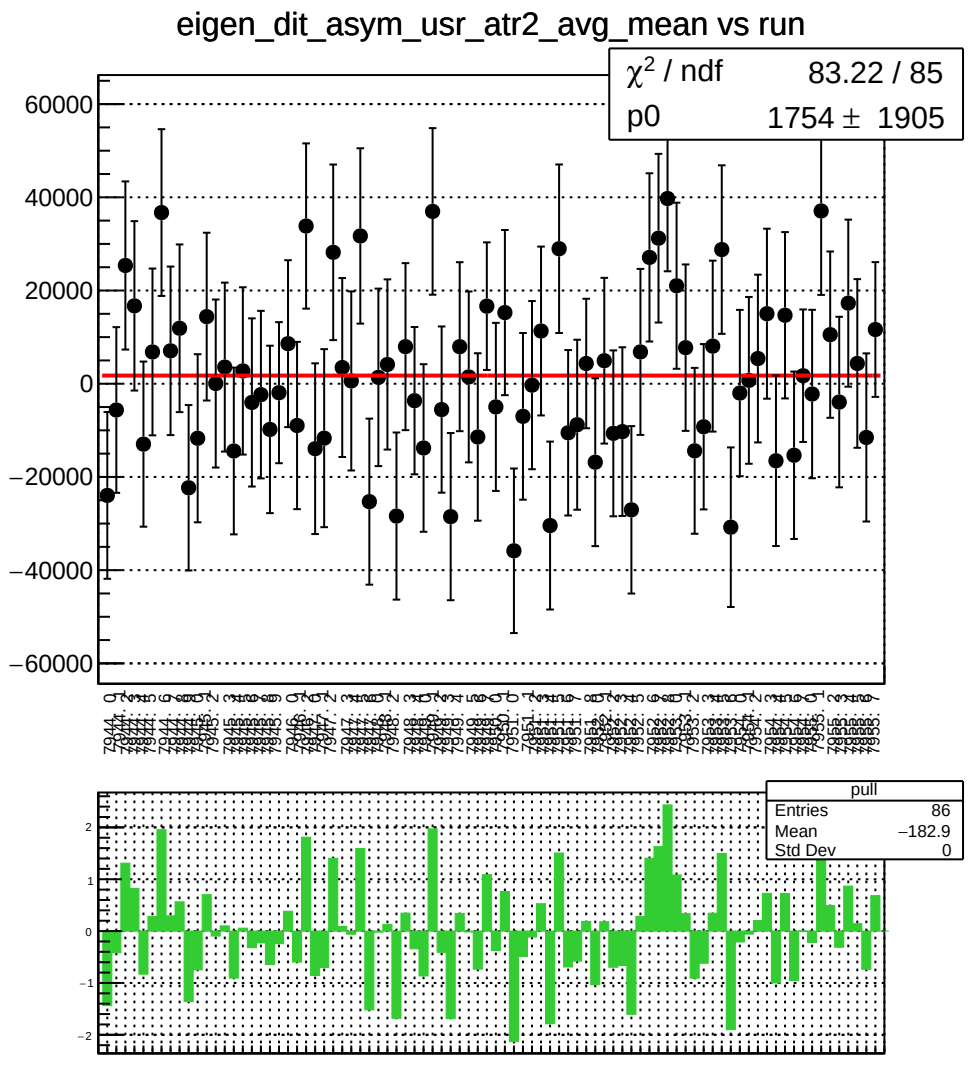

pull1D
Entries 86
Mean −0.006626
Std Dev 0.9837

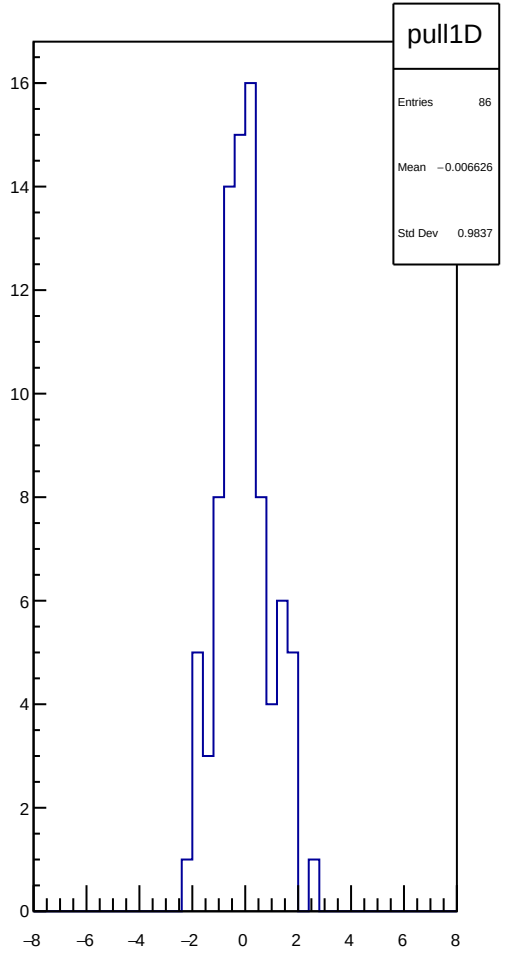

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 470.1 / 85
p0 1714 ± 1.347
1850
1800
1750
1700
1650

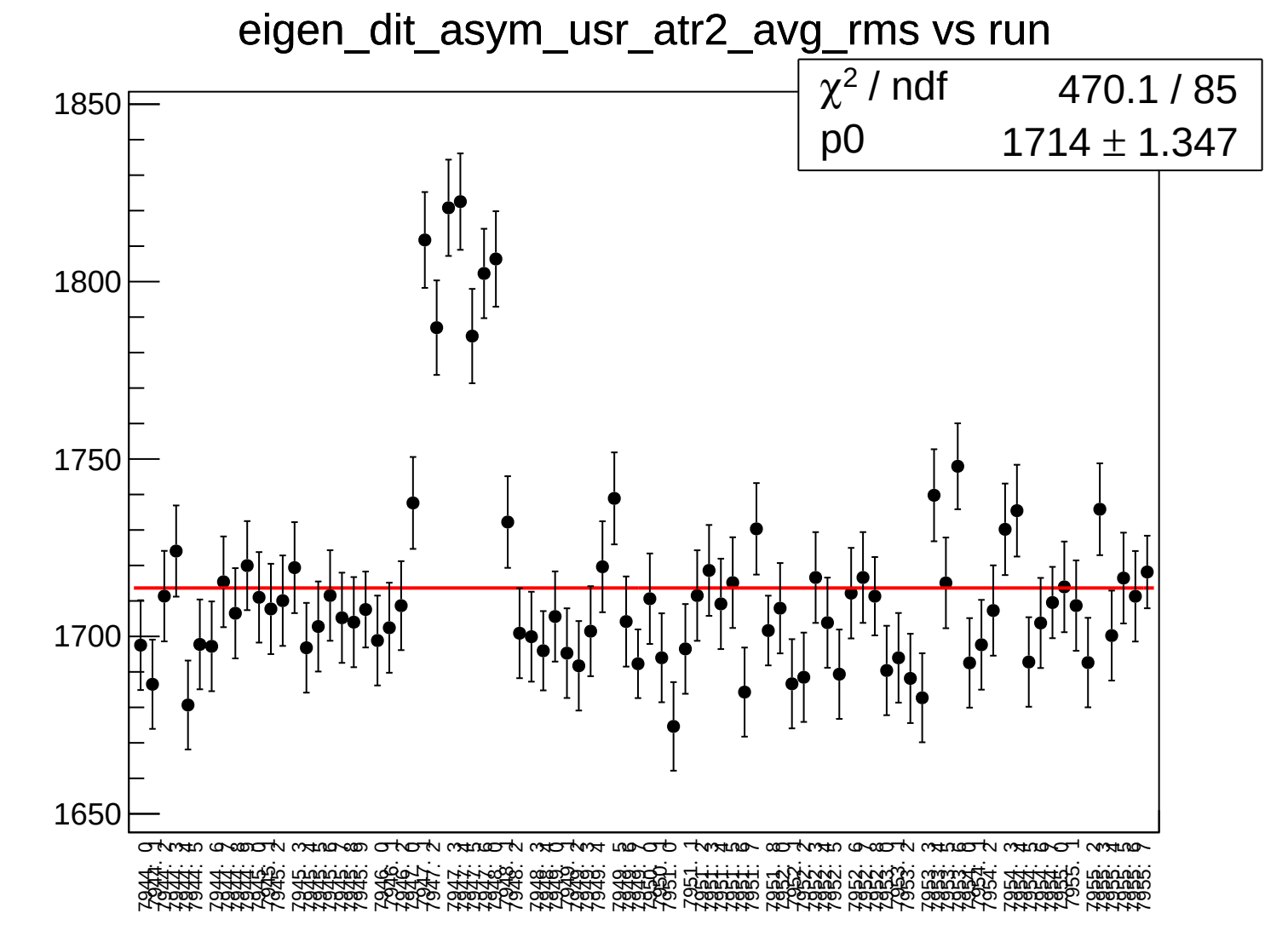

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.35 / 85
p0 −3579 ± 9530
pull
Entries 86
Mean −269.2
Std Dev 0

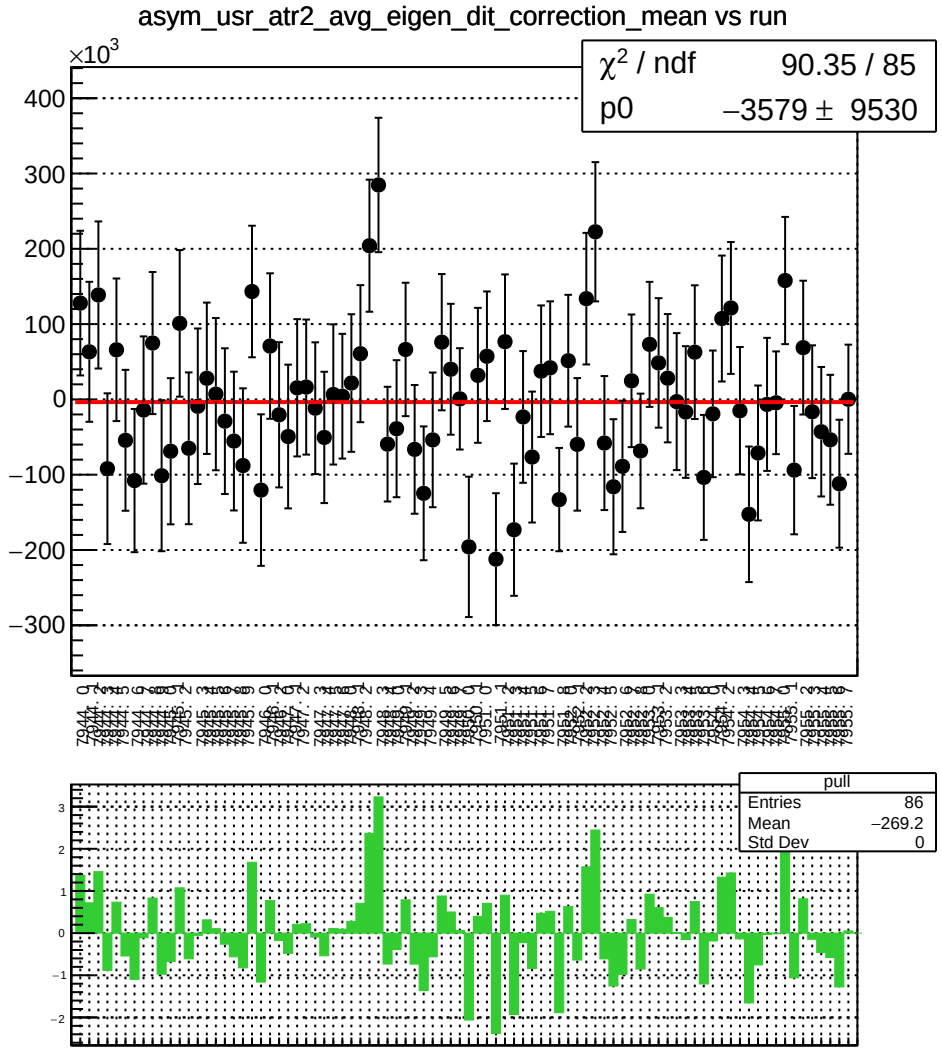

pull1D
Entries 86
Mean 0.006048
Std Dev 1.025

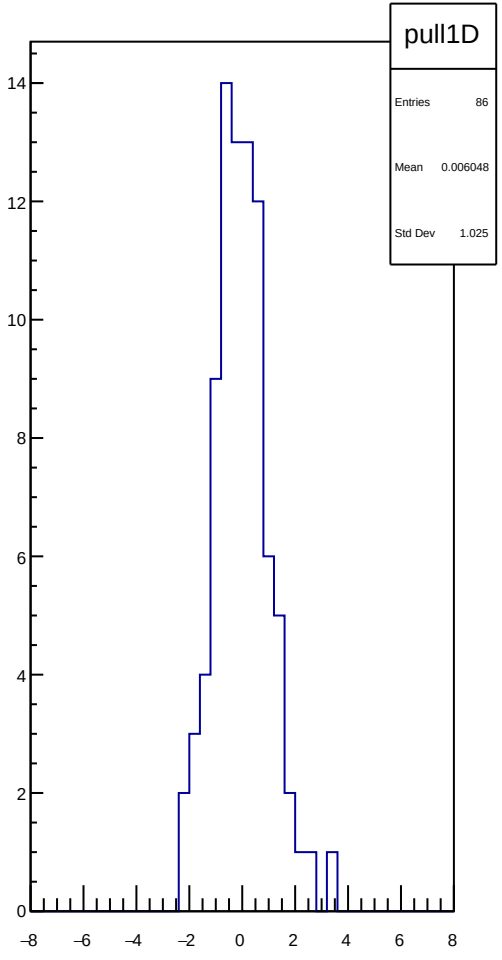

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 4683 / 85
p0 8563 ± 6.739
10000
9500
9000
8500
8000

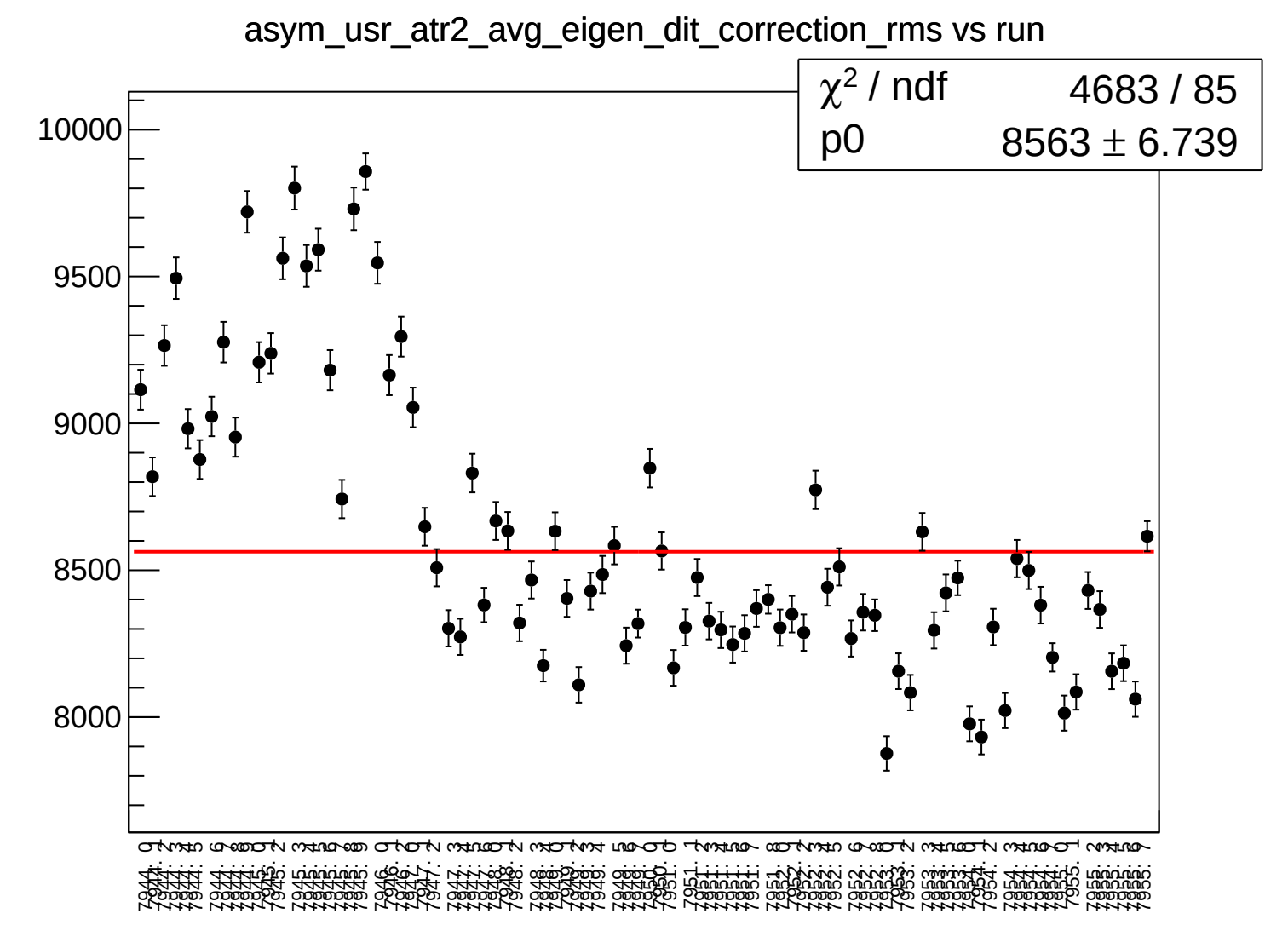

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 83.22 / 85
p0 1754 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −182.9
Std Dev 0
2
1
0
−1
−2

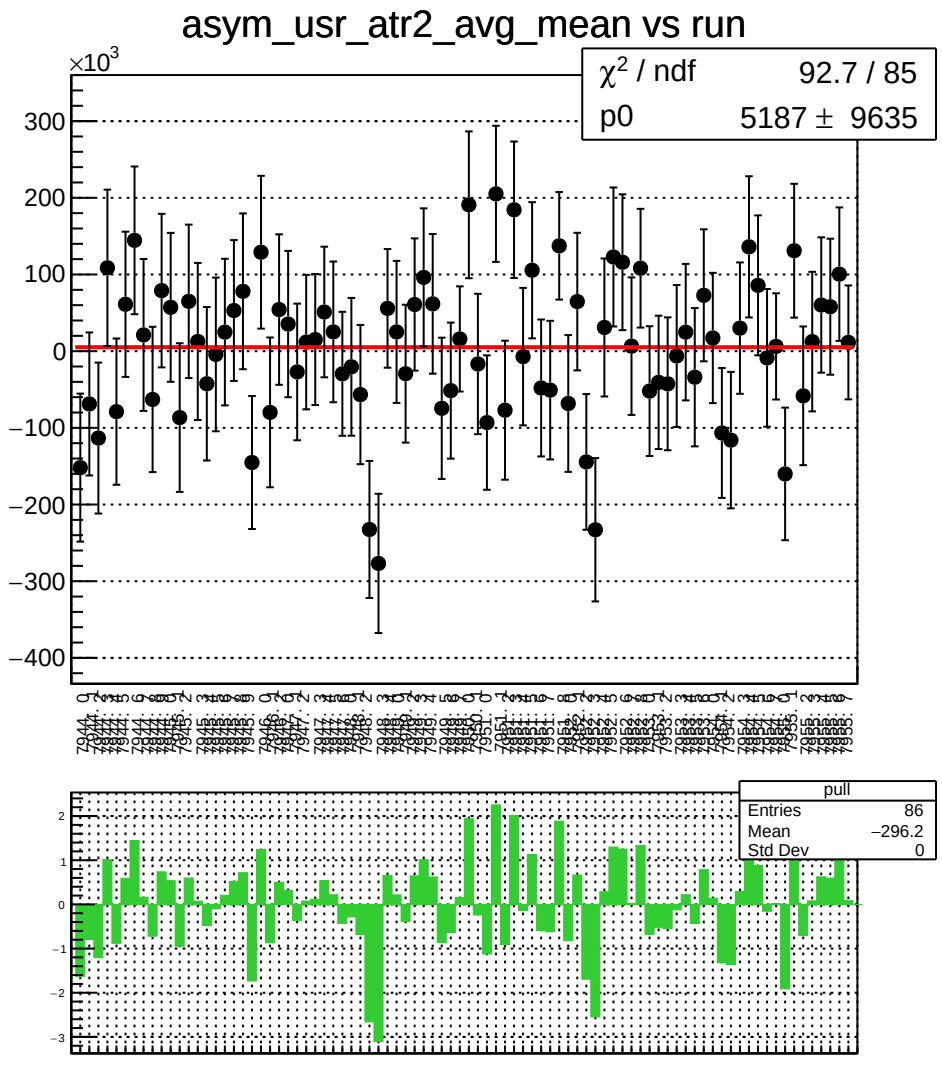

pull1D
Entries 86
Mean −0.006626
Std Dev 0.9837
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

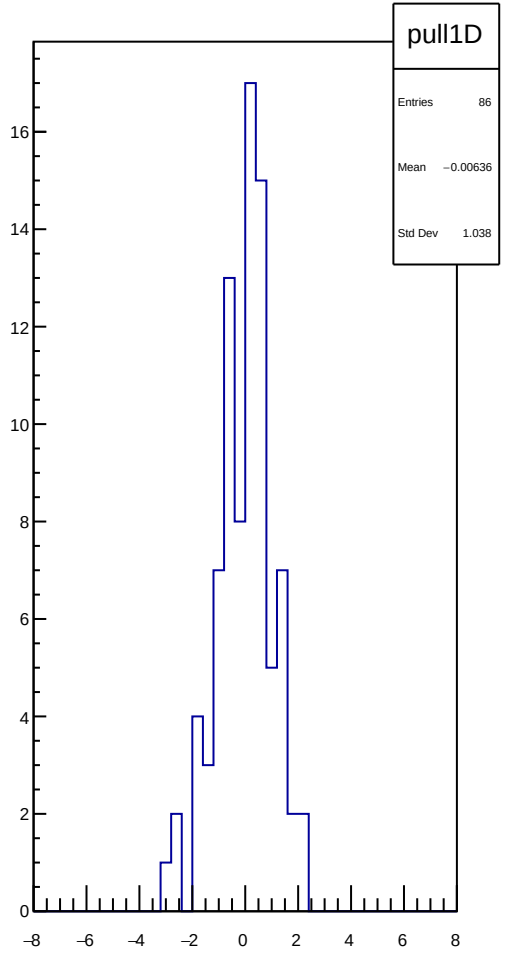

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 470.1 / 85
p0 1714 ± 1.347
1850
1800
1750
1700
1650

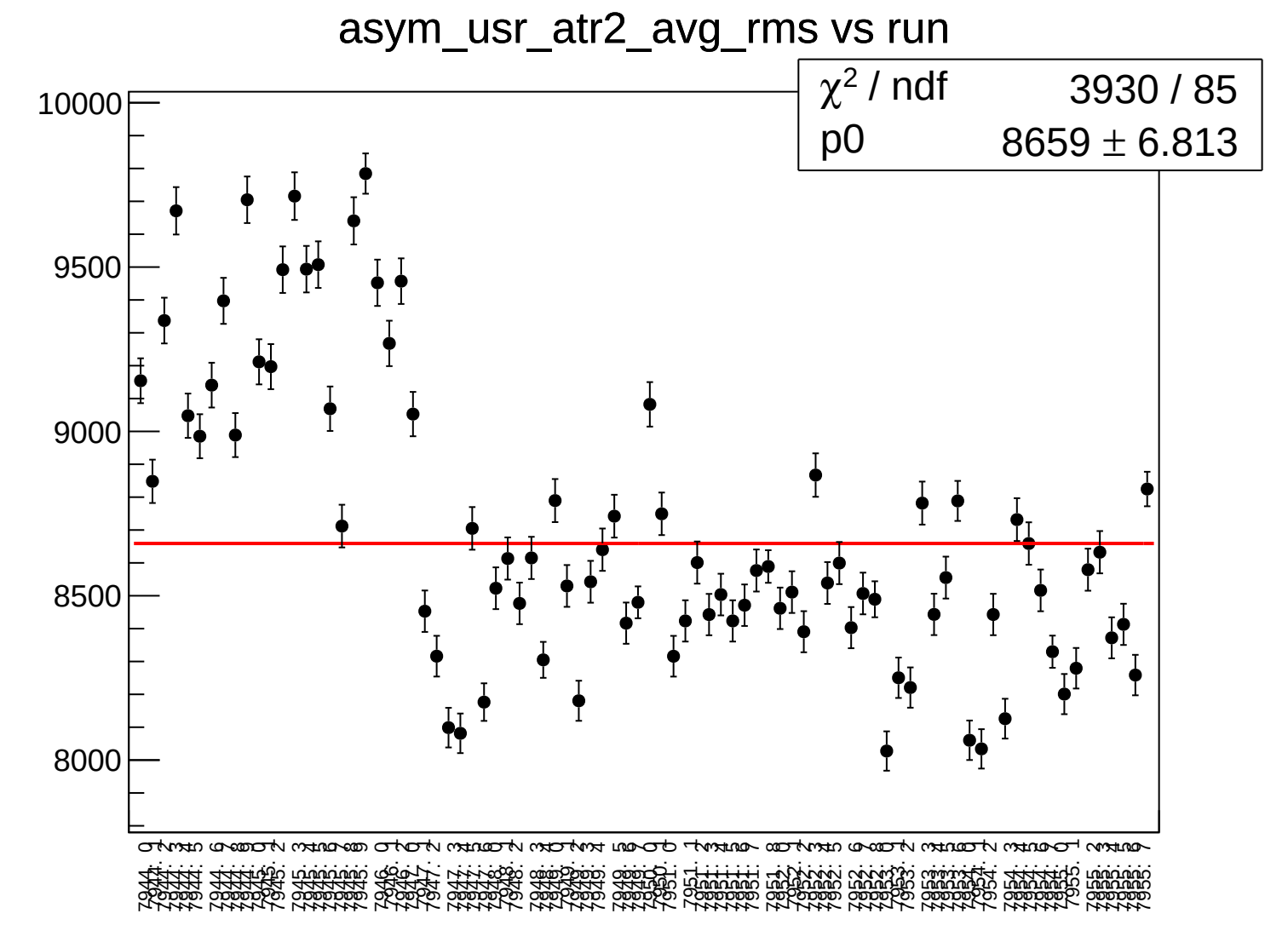

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.35 / 85
p0 −3579 ± 9530
pull
Entries 86
Mean −269.2
Std Dev 0

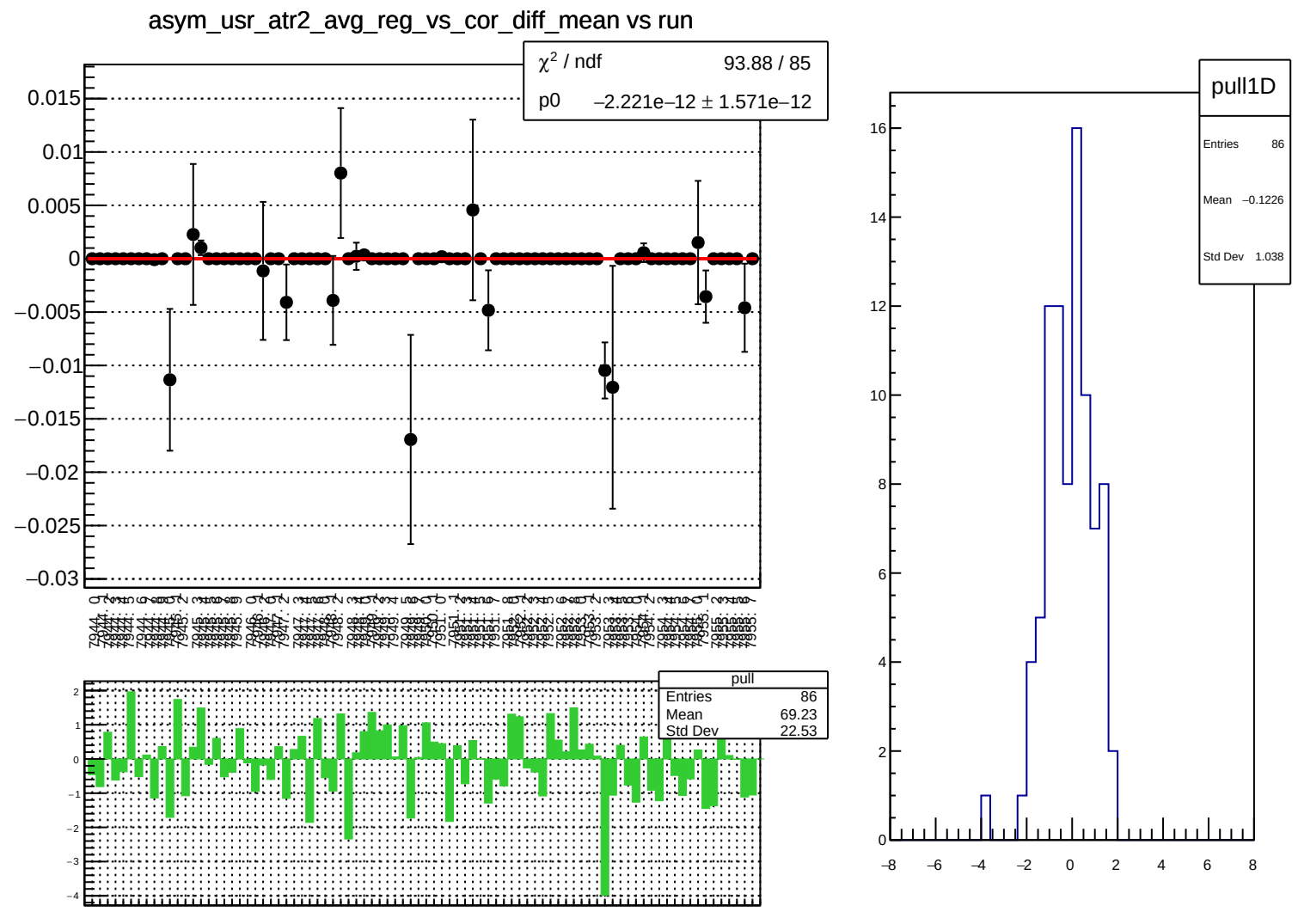

pull1D
Entries 86
Mean 0.006048
Std Dev 1.025

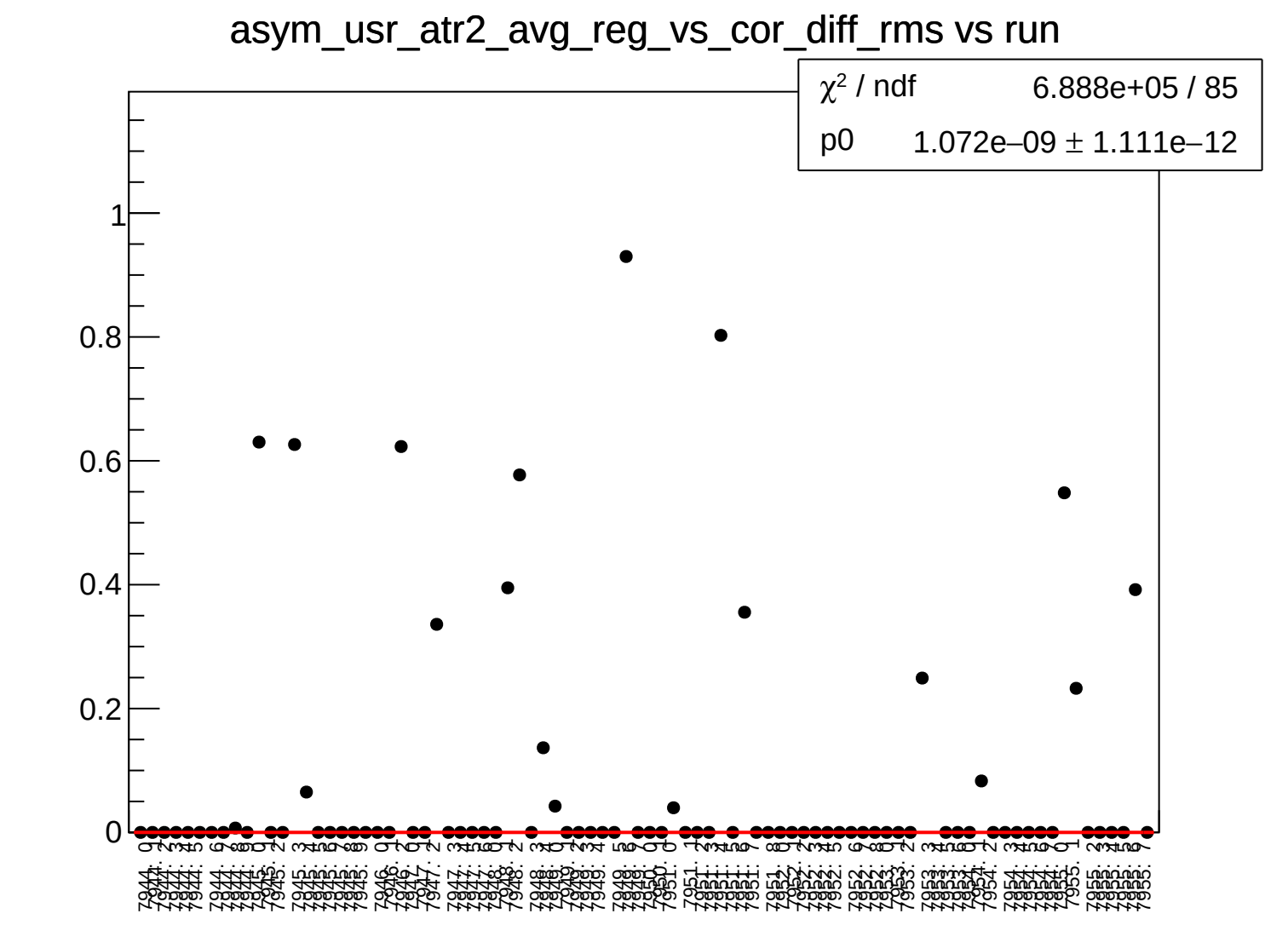

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4683 / 85
p0 8563 ± 6.739
10000
9500
9000
8500
8000

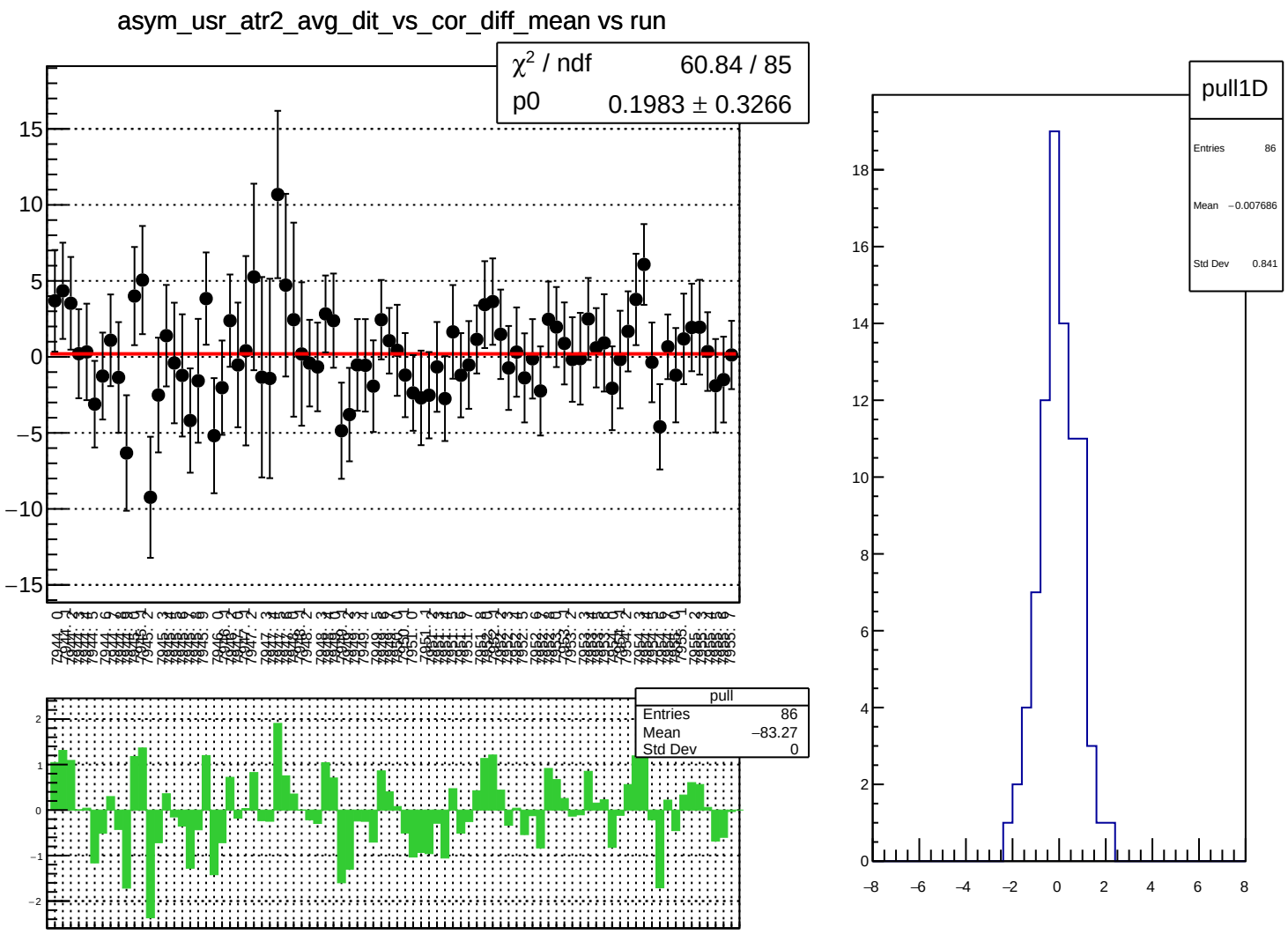

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 92.7 / 85
p0 5187 ± 9635
300
200
100
0
−100
−200
−300
−400
pull
Entries 86
Mean −296.2
Std Dev 0
2
1
0
−1
−2
−3

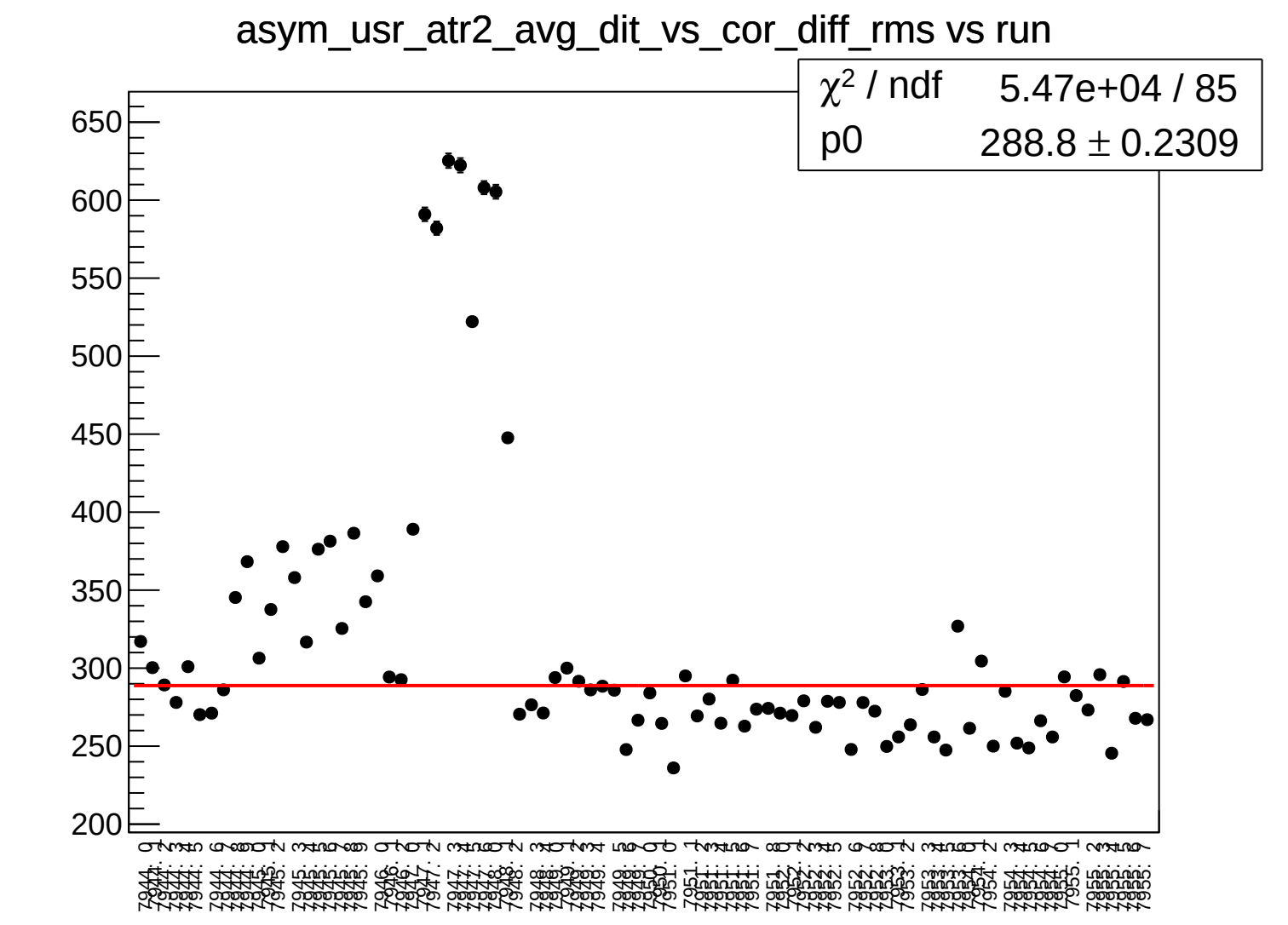

pull1D
Entries 86
Mean −0.00636
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

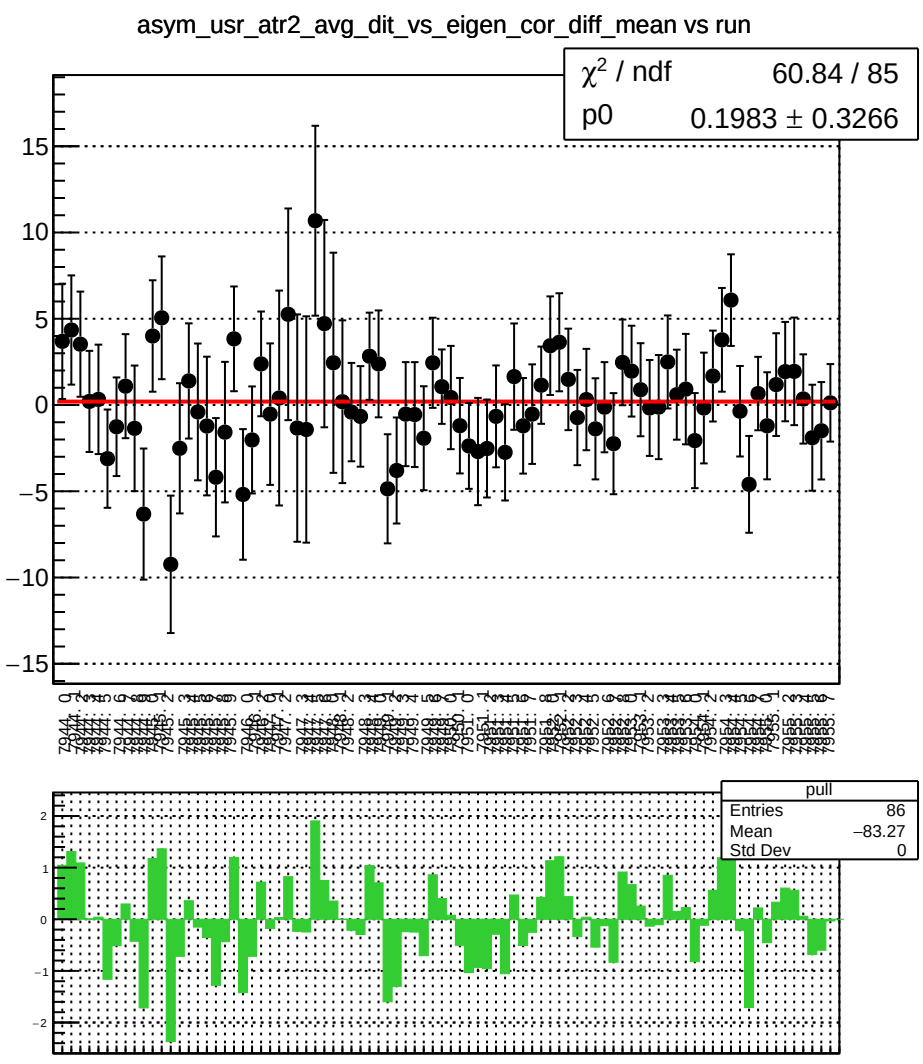

asym_usr_atr2_avg_rms vs run
χ² / ndf 3930 / 85
p0 8659 ± 6.813
10000
9500
9000
8500
8000

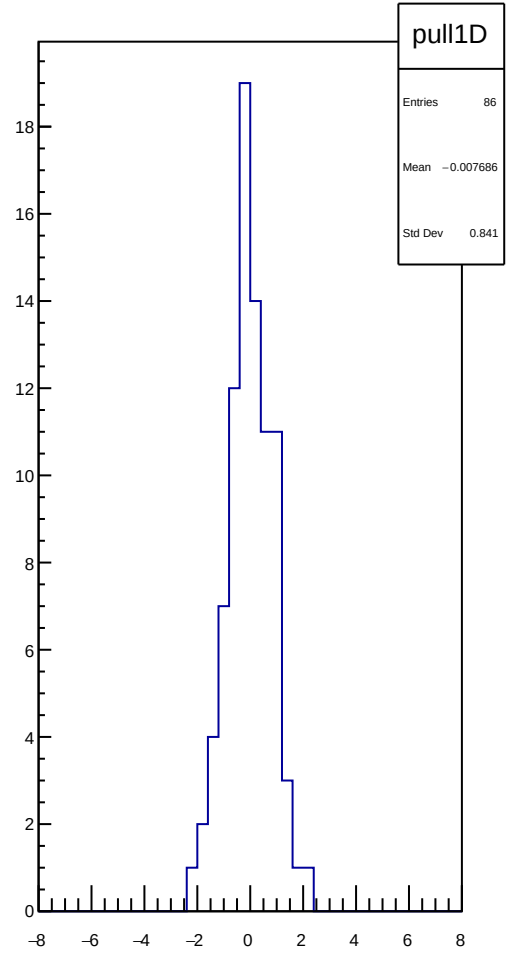

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.88 / 85
p0 −2.221e−12 ± 1.571e−12
pull
Entries 86
Mean 69.23
Std Dev 22.53
pull1D
Entries 86
Mean −0.1226
Std Dev 1.038

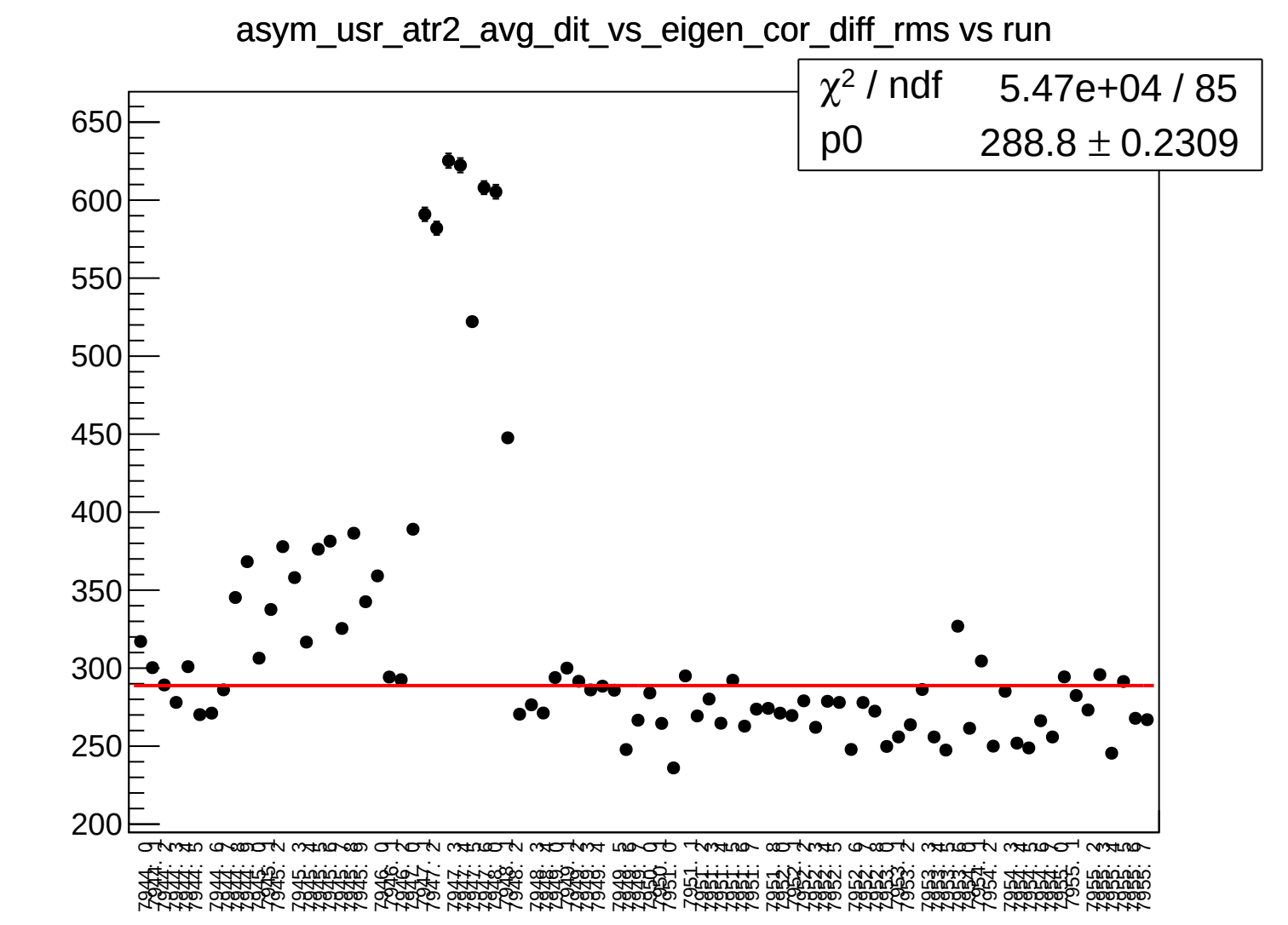

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.888e+05 / 85
p0 1.072e−09 ± 1.111e−12
1
0.8
0.6
0.4
0.2
0

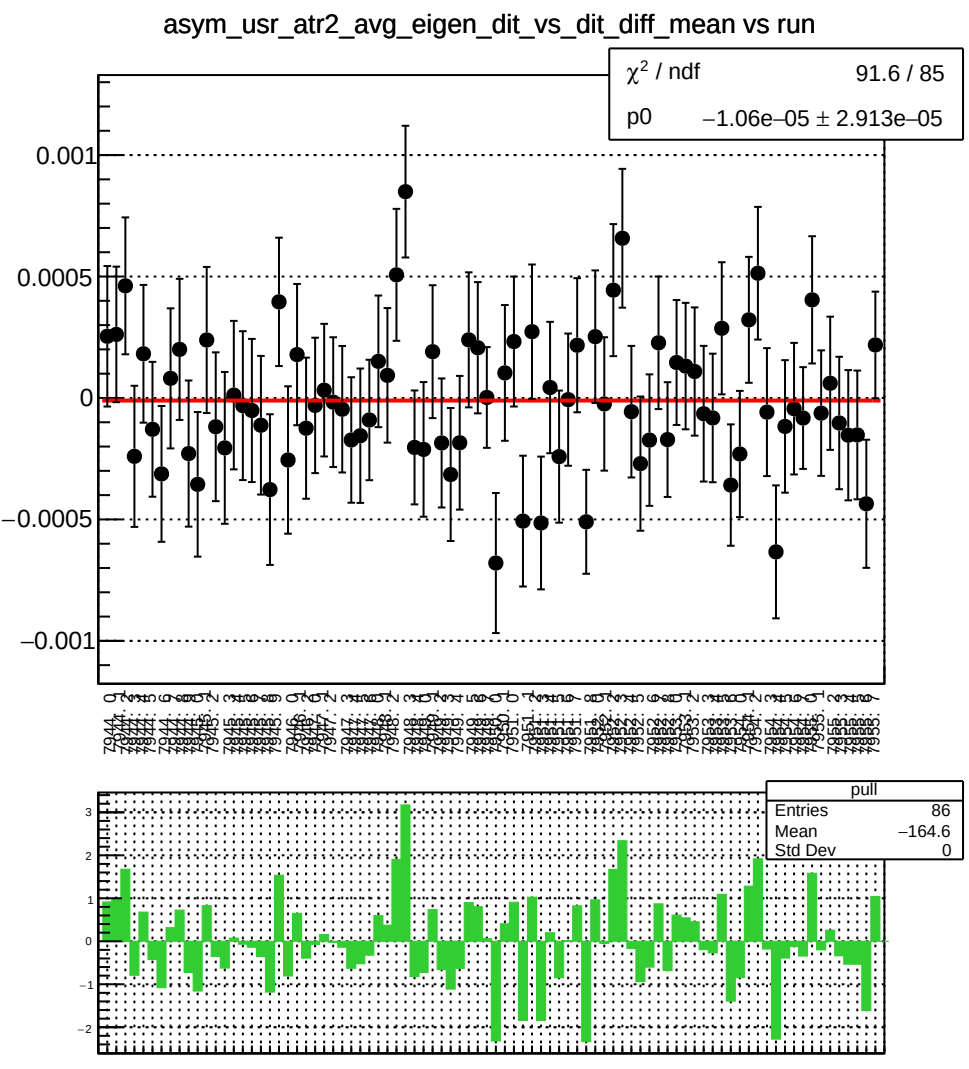

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 60.84 / 85
p0 0.1983 ± 0.3266
pull
Entries 86
Mean −83.27
Std Dev 0
pull1D
Entries 86
Mean −0.007686
Std Dev 0.841

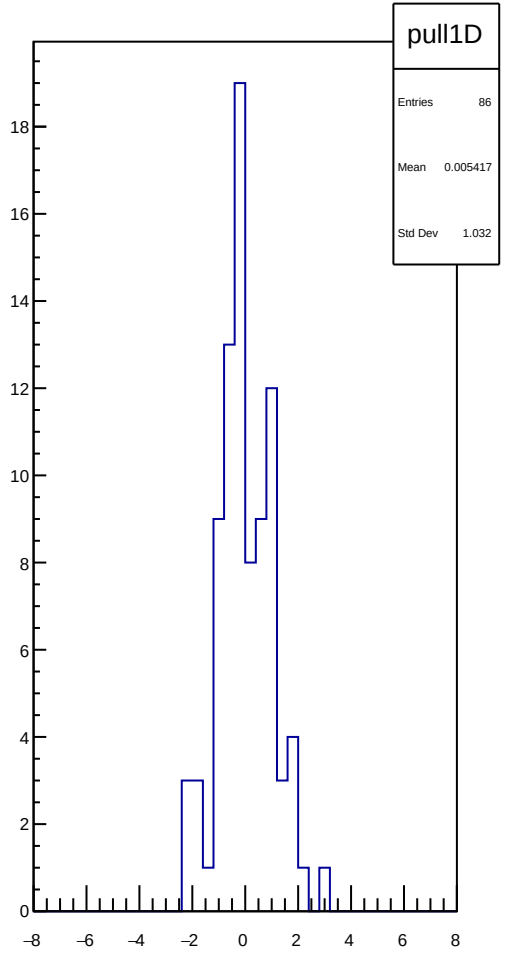

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.47e+04 / 85
p0 288.8 ± 0.2309
650
600
550
500
450
400
350
300
250
200

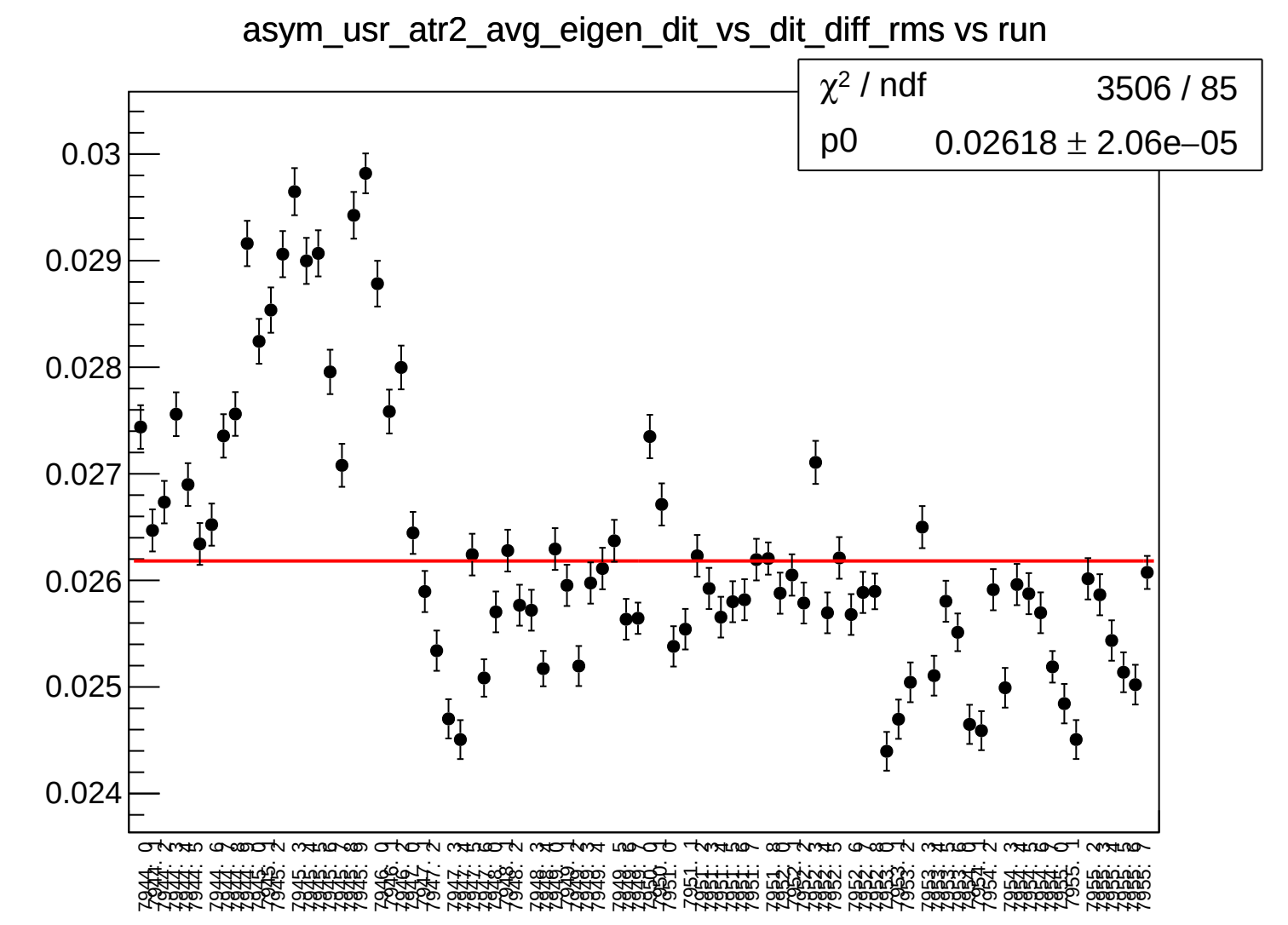

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.84 / 85
p0 0.1983 ± 0.3266
pull
Entries 86
Mean −83.27
Std Dev 0

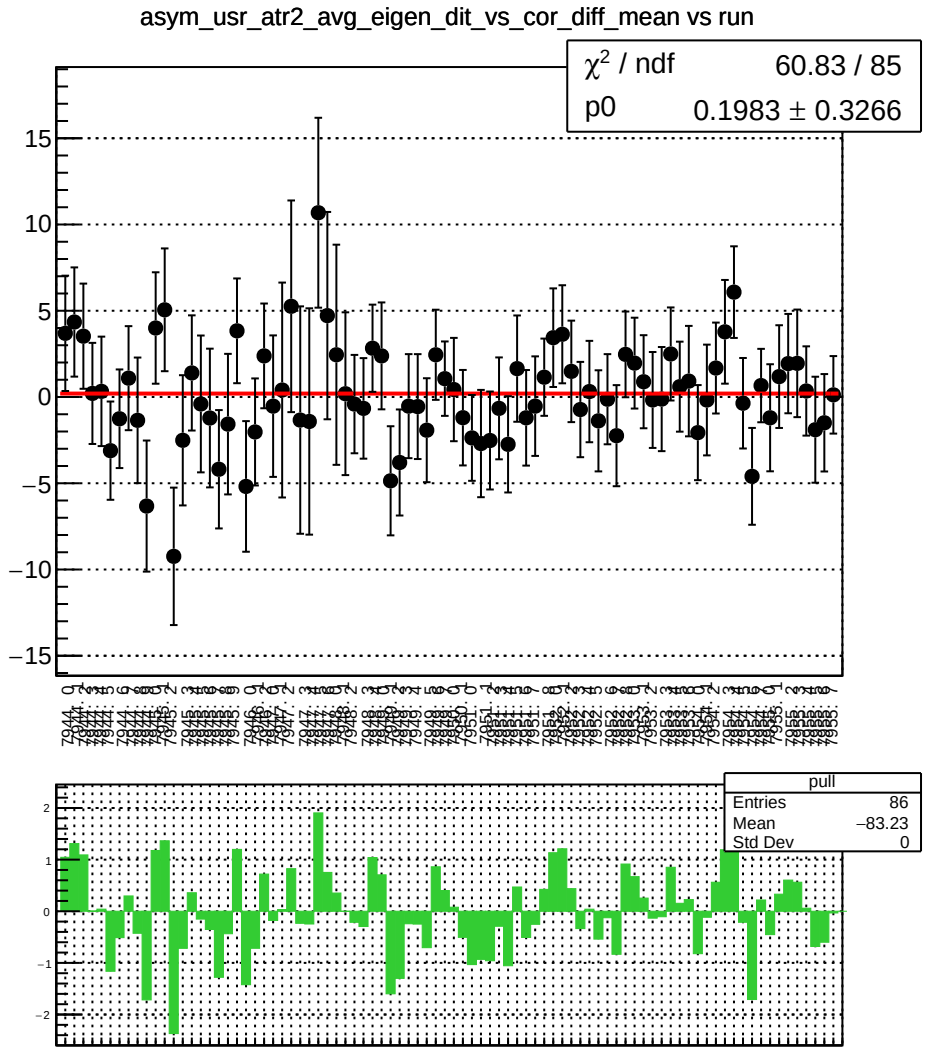

pull1D
Entries 86
Mean −0.007686
Std Dev 0.841

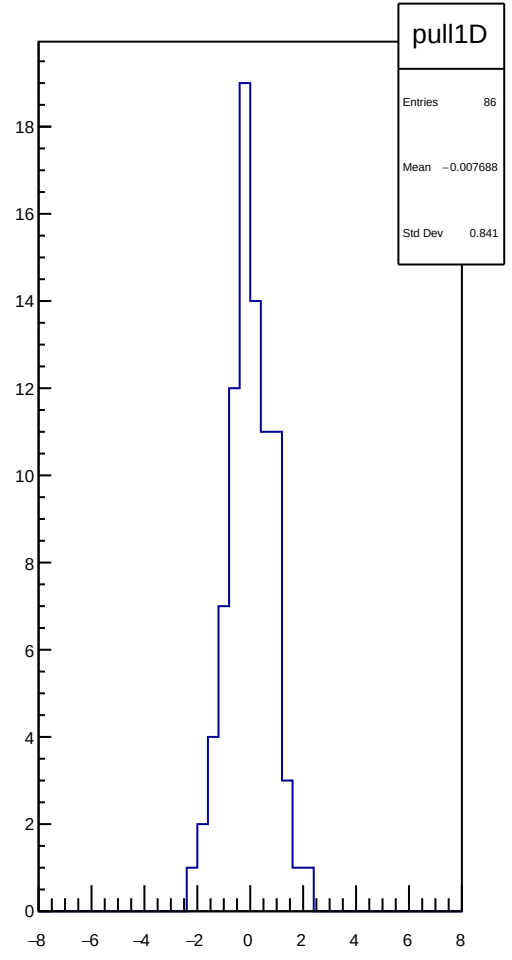

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.47e+04 / 85
p0 288.8 ± 0.2309
650
600
550
500
450
400
350
300
250
200

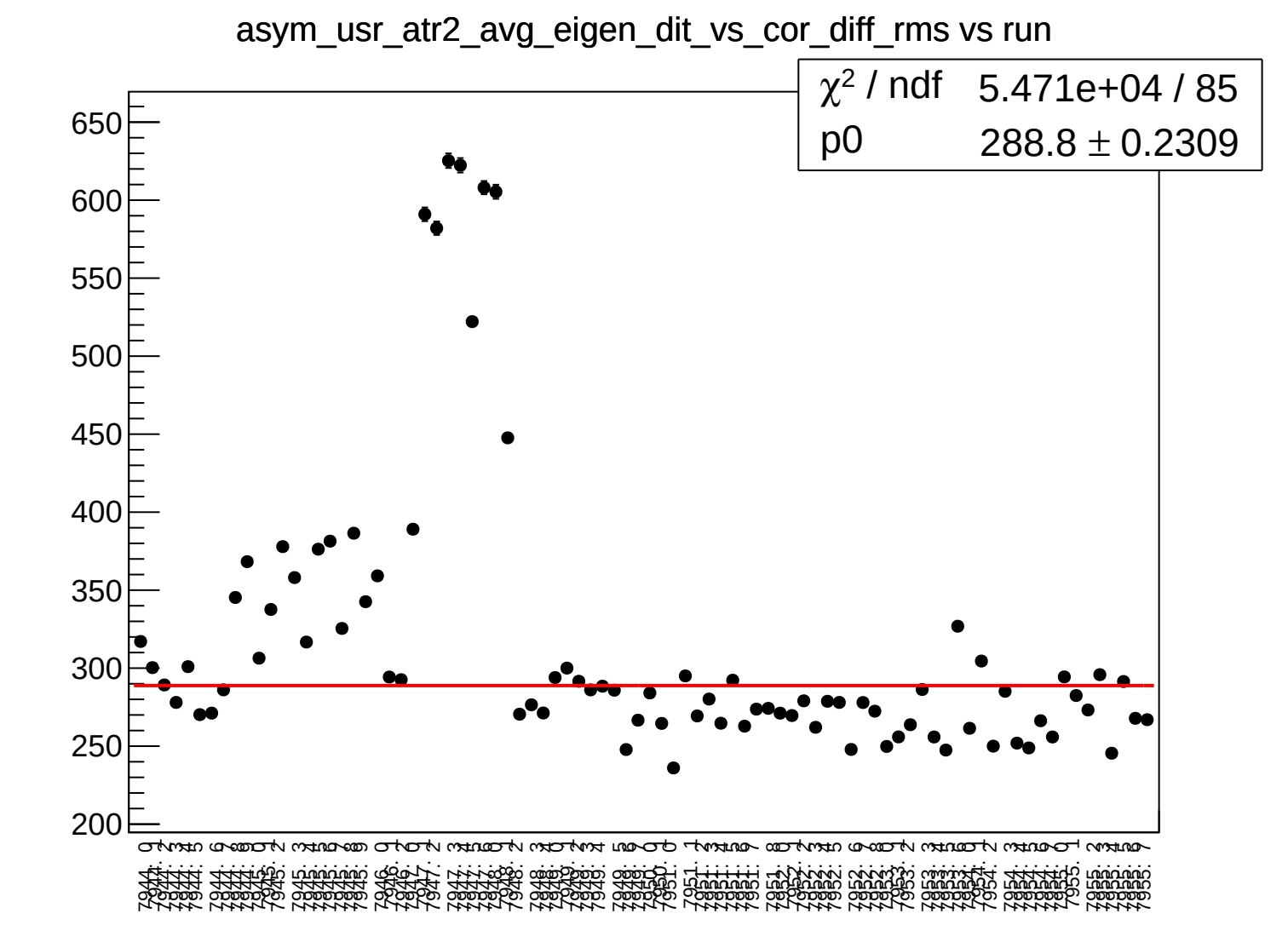

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 91.6 / 85
p0 −1.06e−05 ± 2.913e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean −164.6
Std Dev 0
3
2
1
0
−1
−2

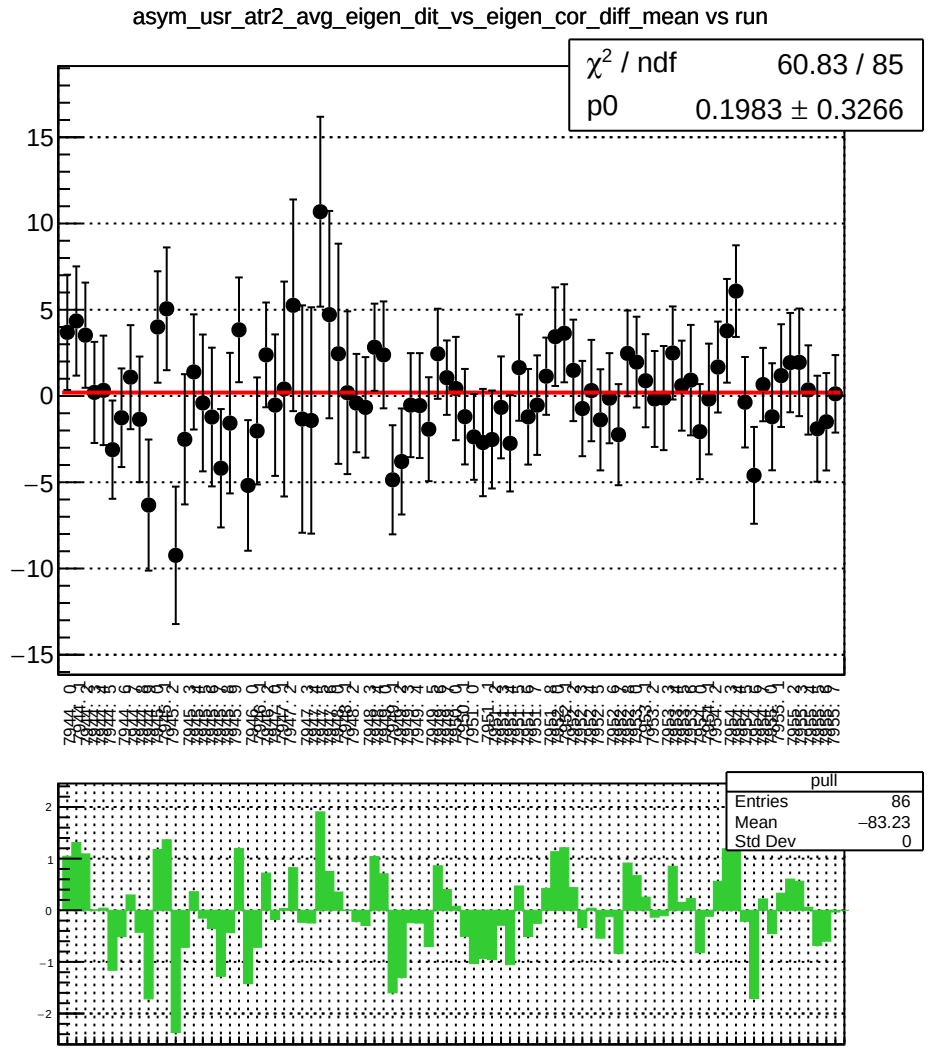

pull1D
Entries 86
Mean 0.005417
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

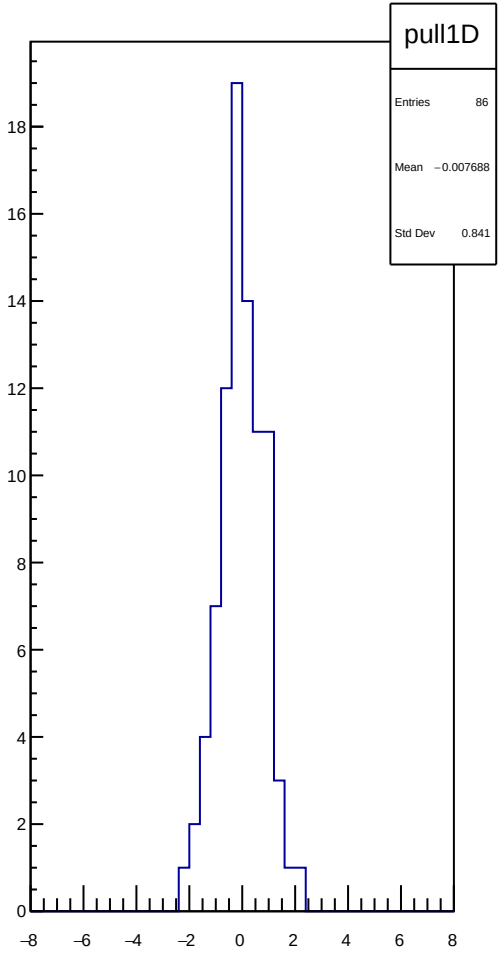

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3506 / 85
p0 0.02618 ± 2.06e−05
0.03
0.029
0.028
0.027
0.026
0.025
0.024

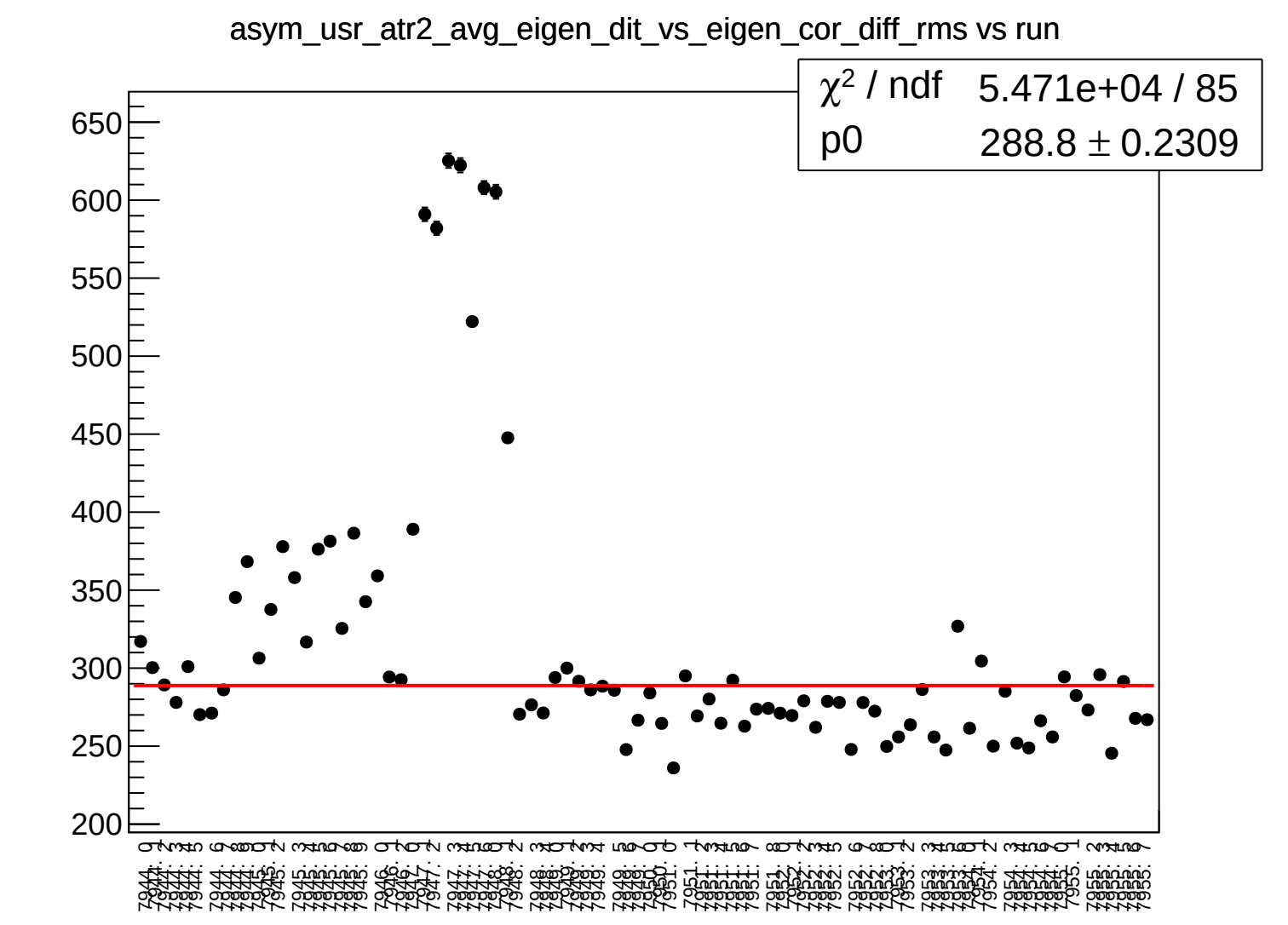

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.83 / 85
p0 0.1983 ± 0.3266
pull
Entries 86
Mean −83.23
Std Dev 0

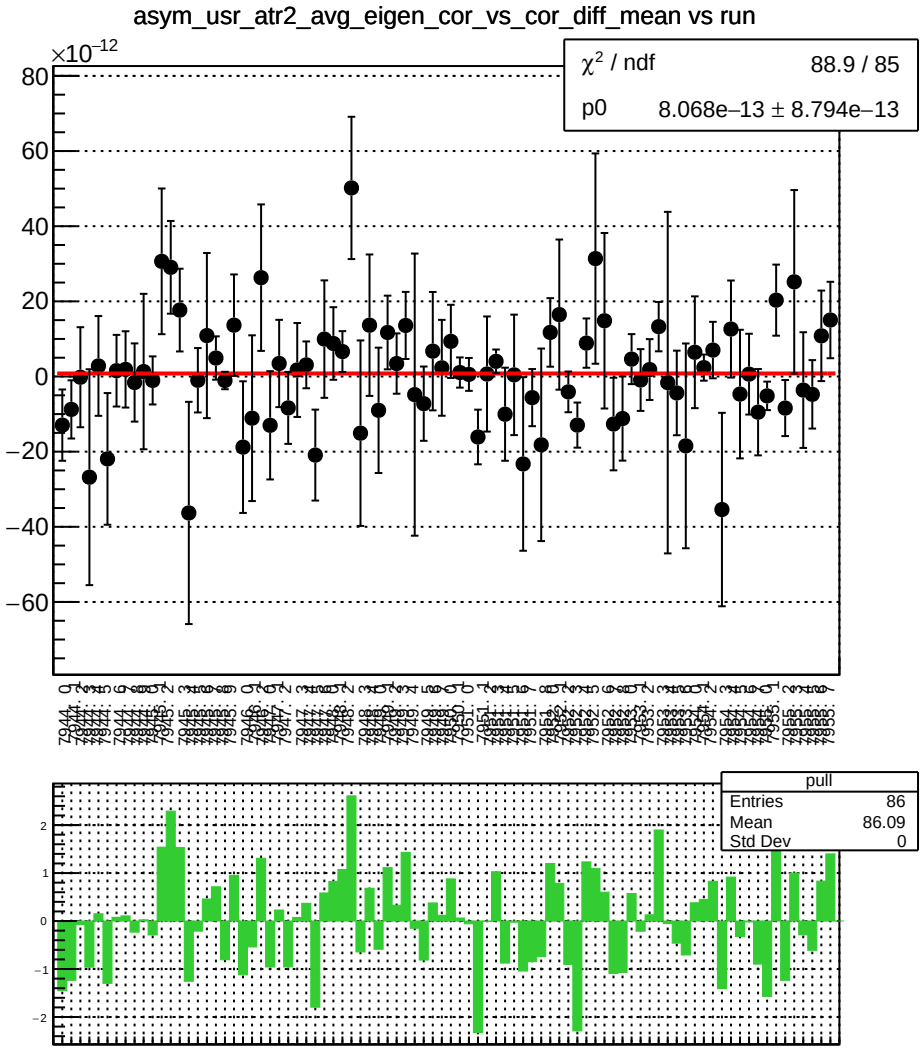

pull1D
Entries 86
Mean −0.007688
Std Dev 0.841

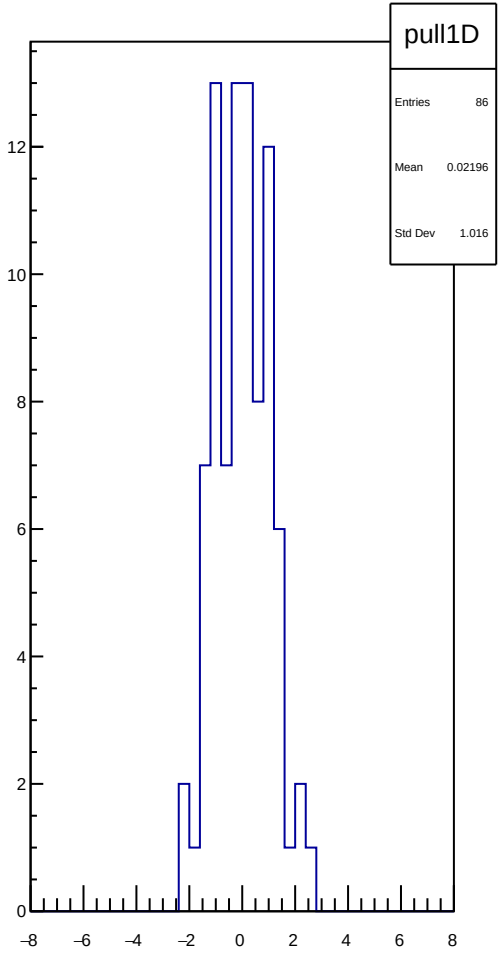

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.471e+04 / 85
p0 288.8 ± 0.2309
650
600
550
500
450
400
350
300
250
200

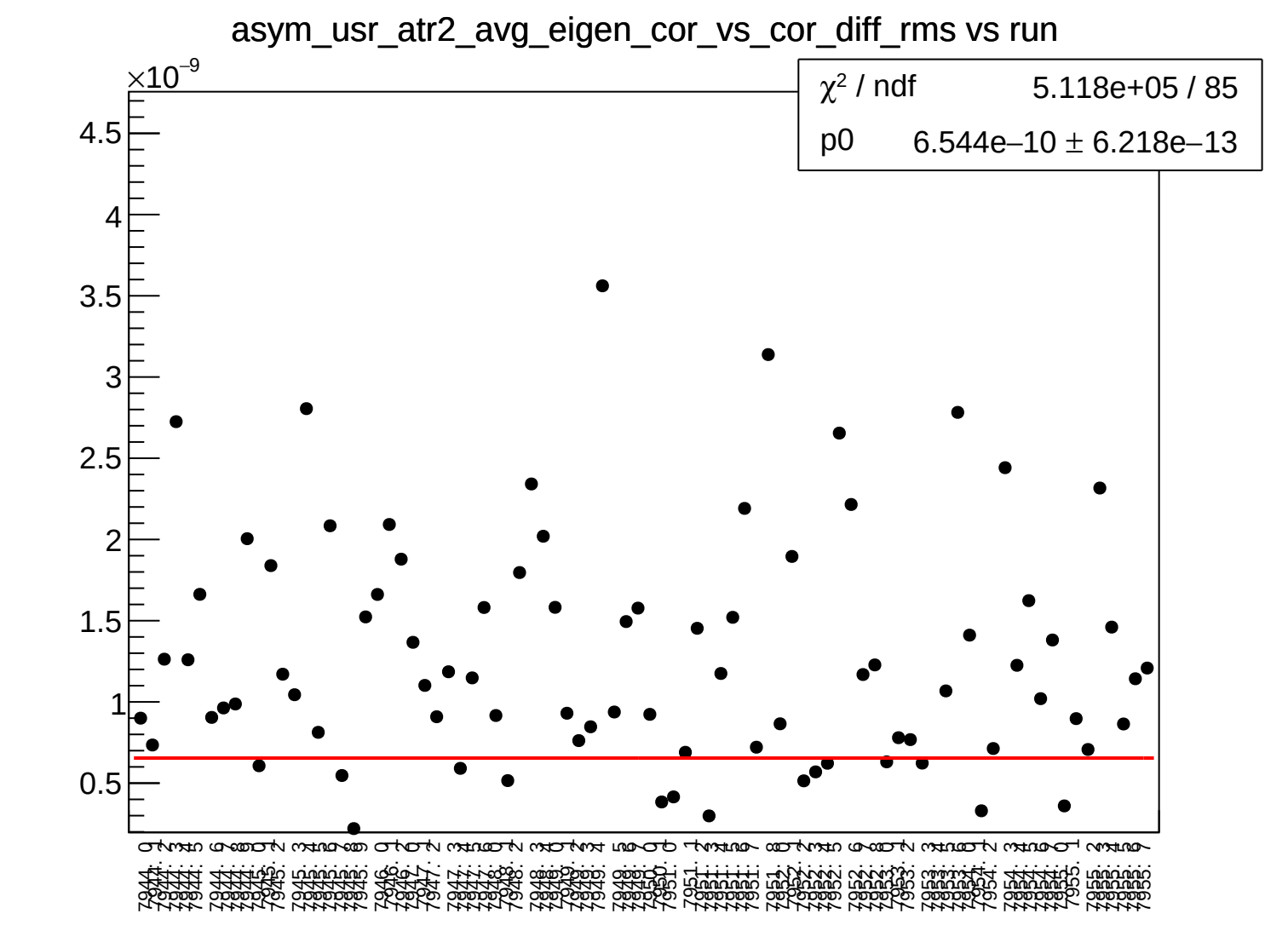

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.83 / 85
p0 0.1983 ± 0.3266
pull
Entries 86
Mean −83.23
Std Dev 0

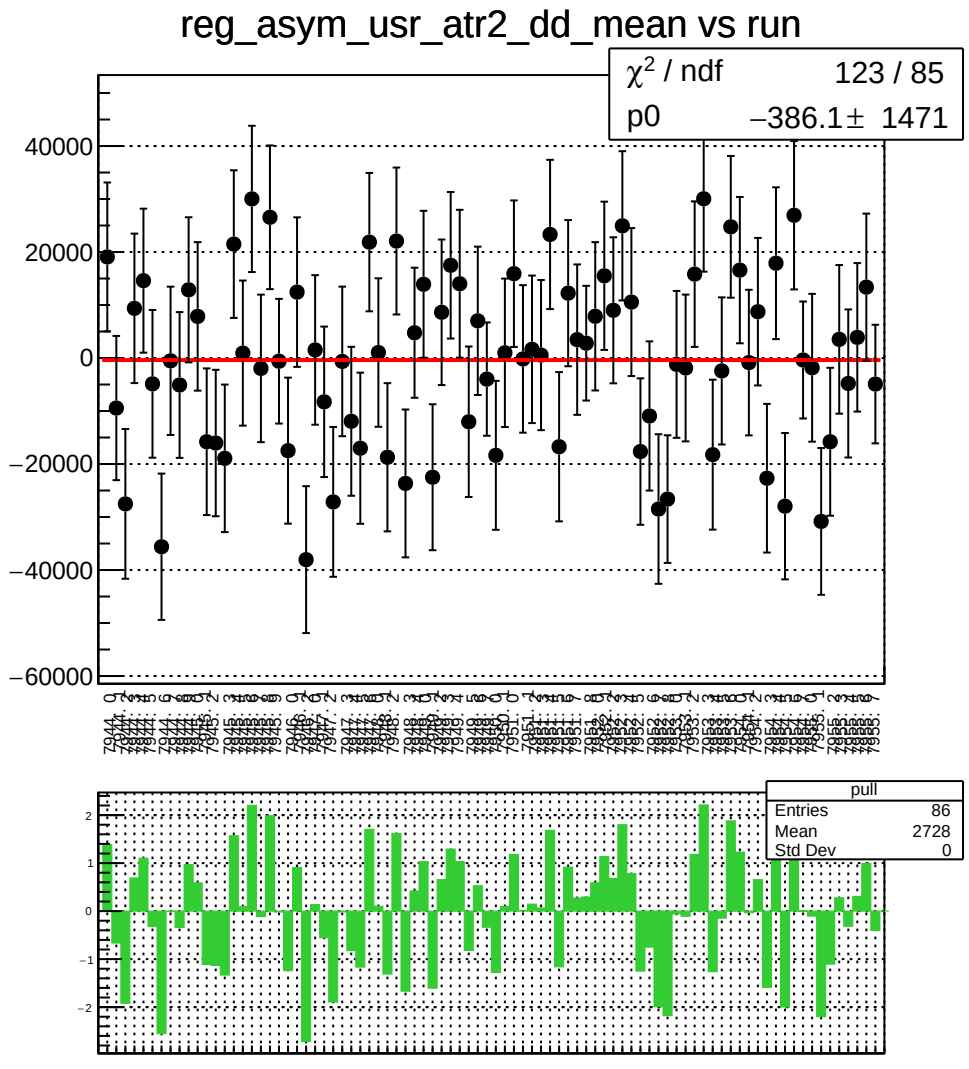

pull1D
Entries 86
Mean −0.007688
Std Dev 0.841

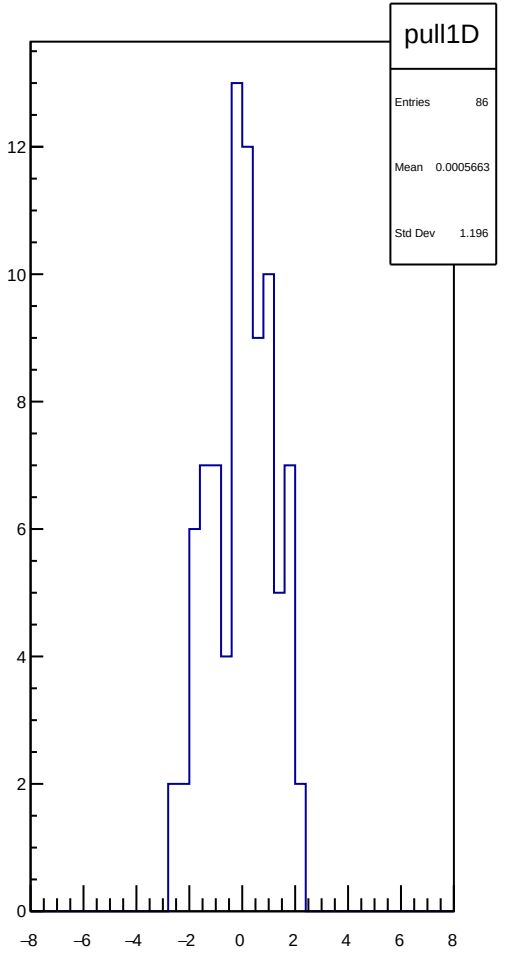

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.471e+04 / 85
p0 288.8 ± 0.2309
650
600
550
500
450
400
350
300
250
200

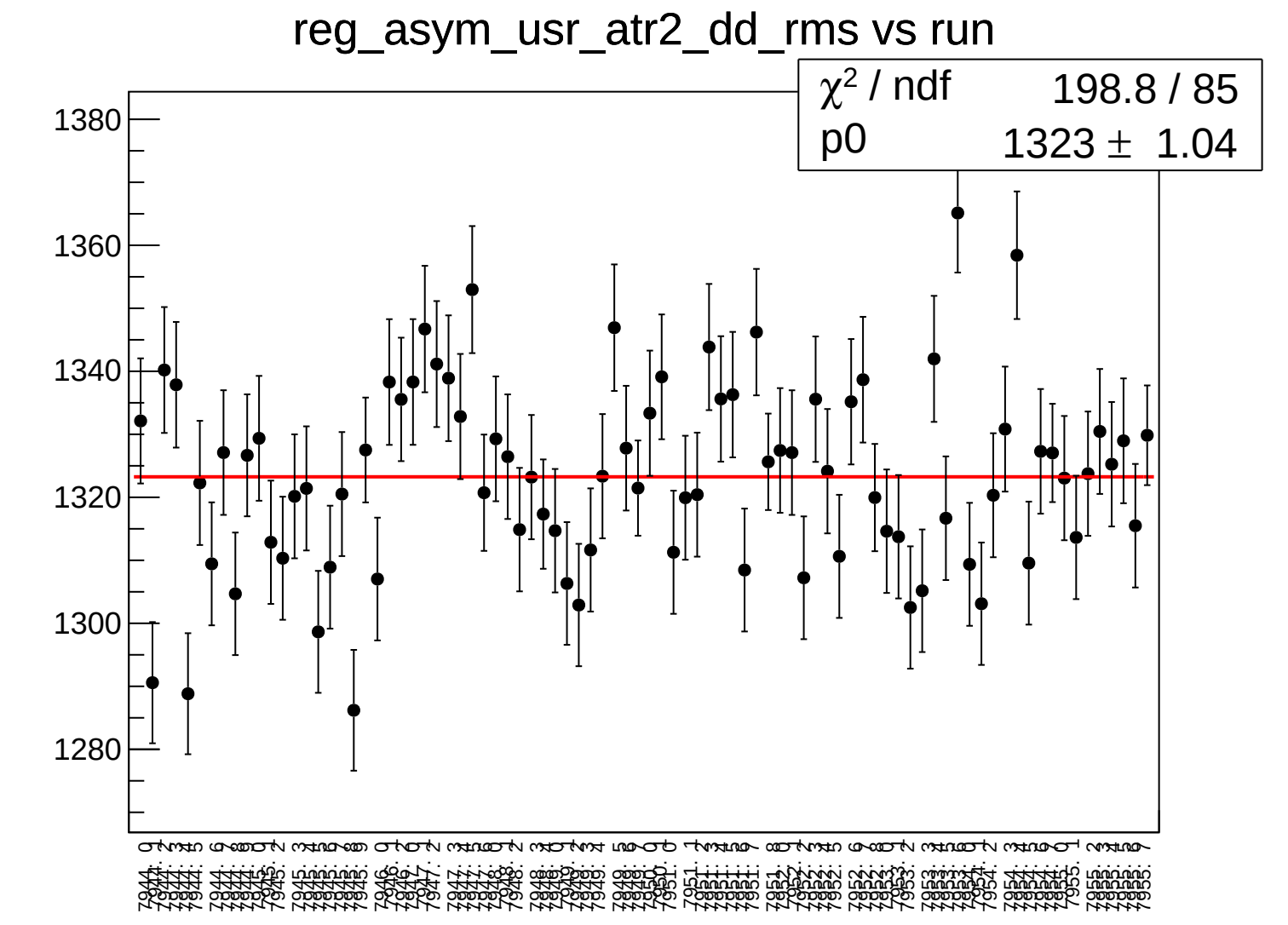

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.9 / 85
p0 8.068e−13 ± 8.794e−13
pull
Entries 86
Mean 86.09
Std Dev 0

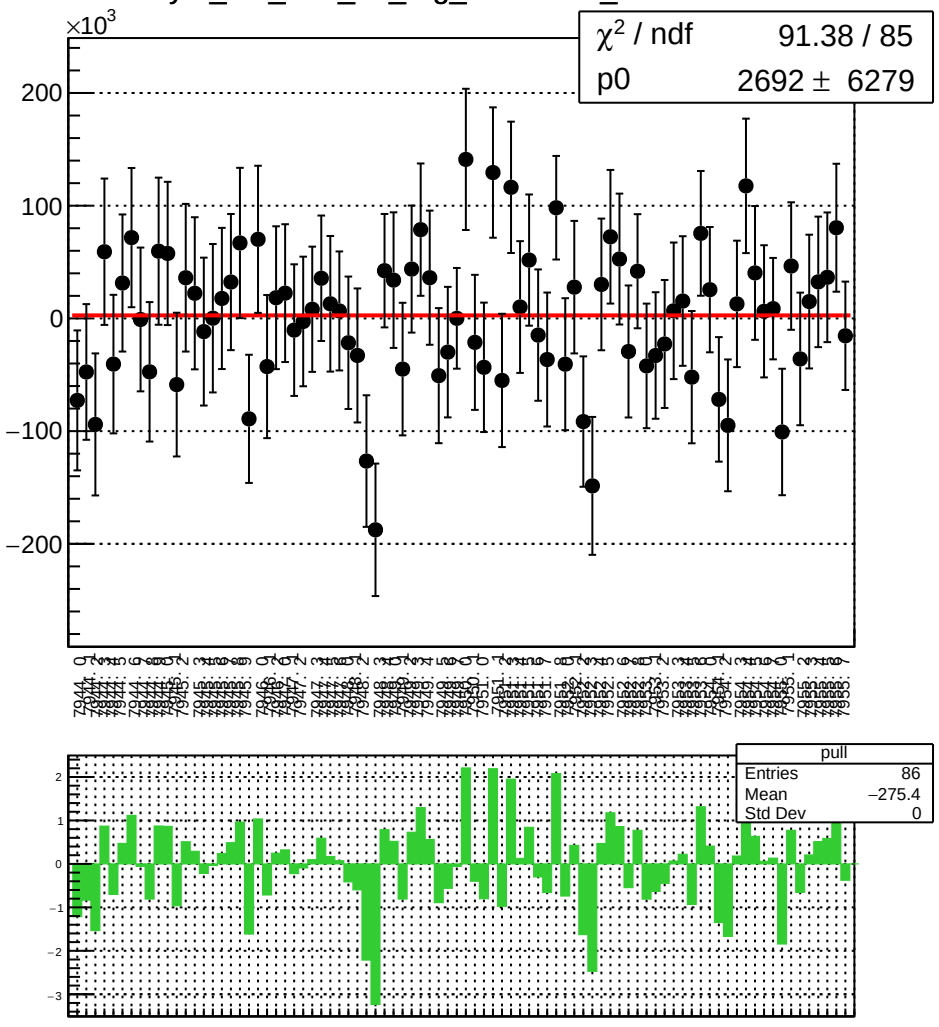

pull1D
Entries 86
Mean 0.02196
Std Dev 1.016

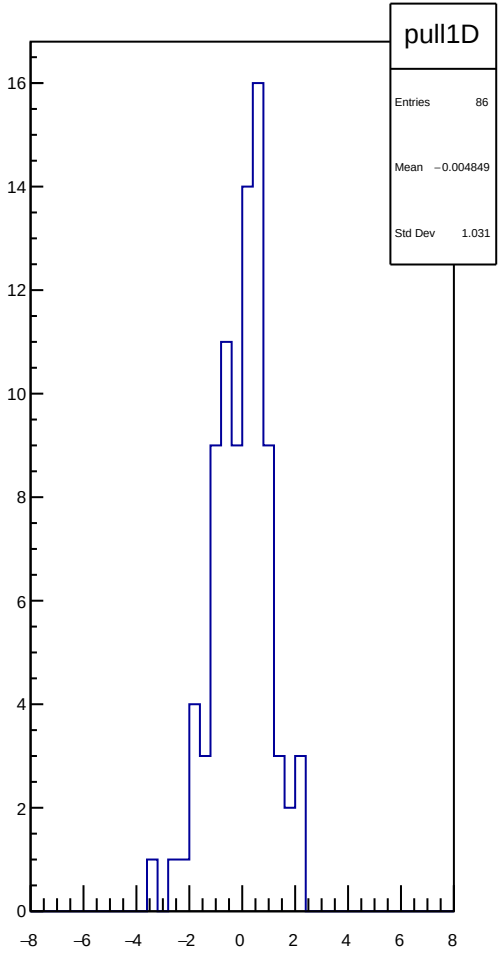

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.118e+05 / 85
p0 6.544e−10 ± 6.218e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

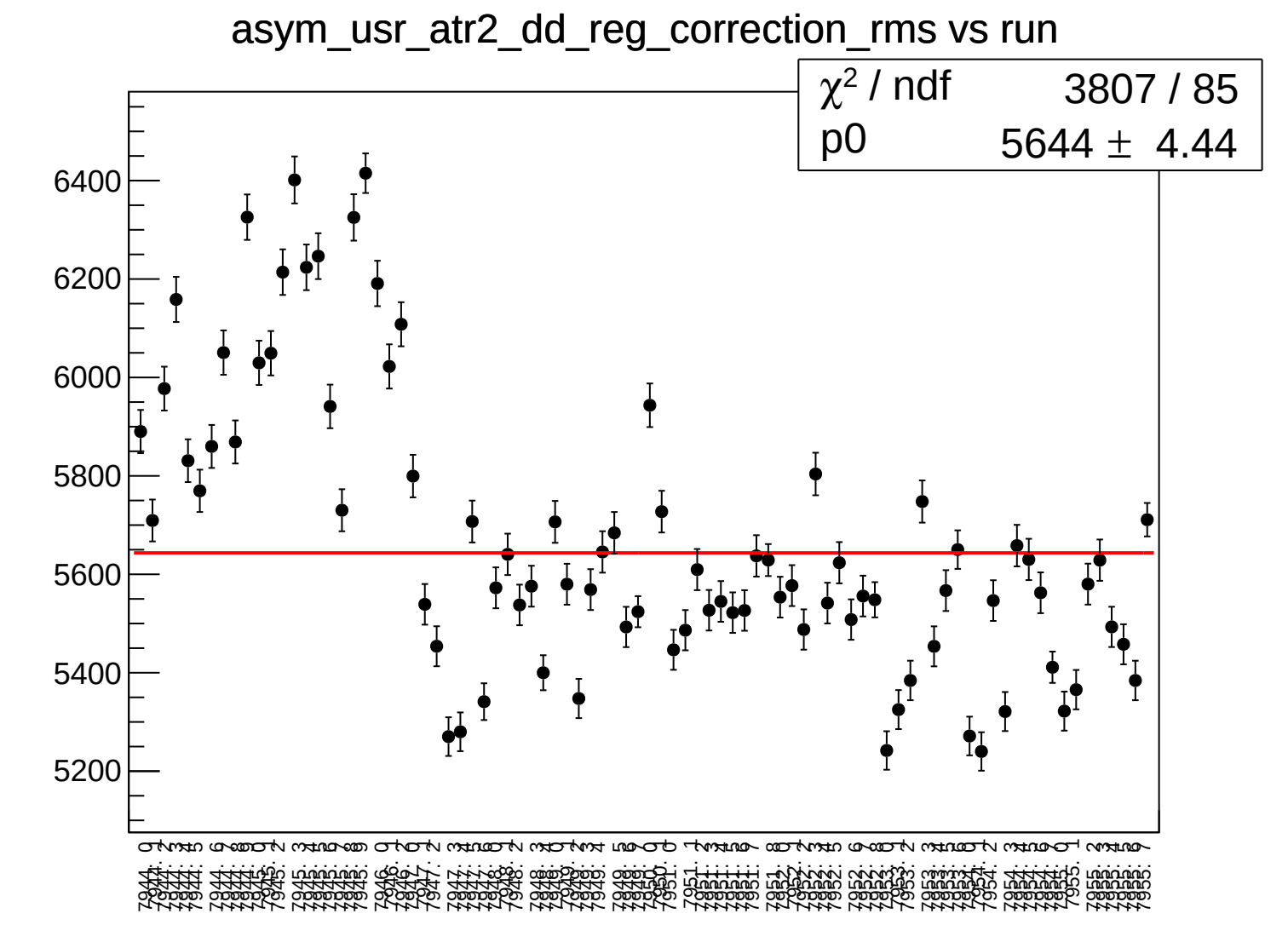

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 123 / 85
p0 −386.1± 1471
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2728
Std Dev 0
2
1
0
−1
−2

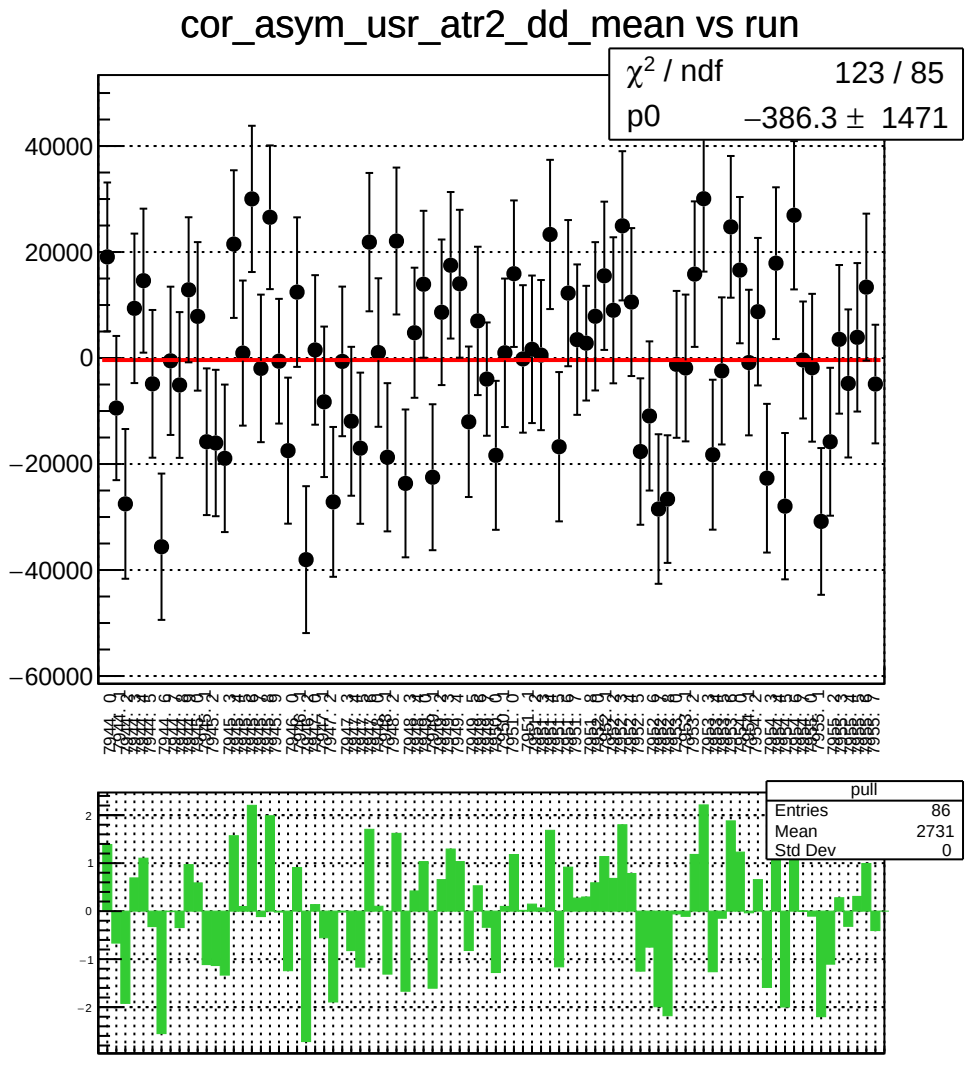

pull1D
Entries 86
Mean 0.0005663
Std Dev 1.196
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

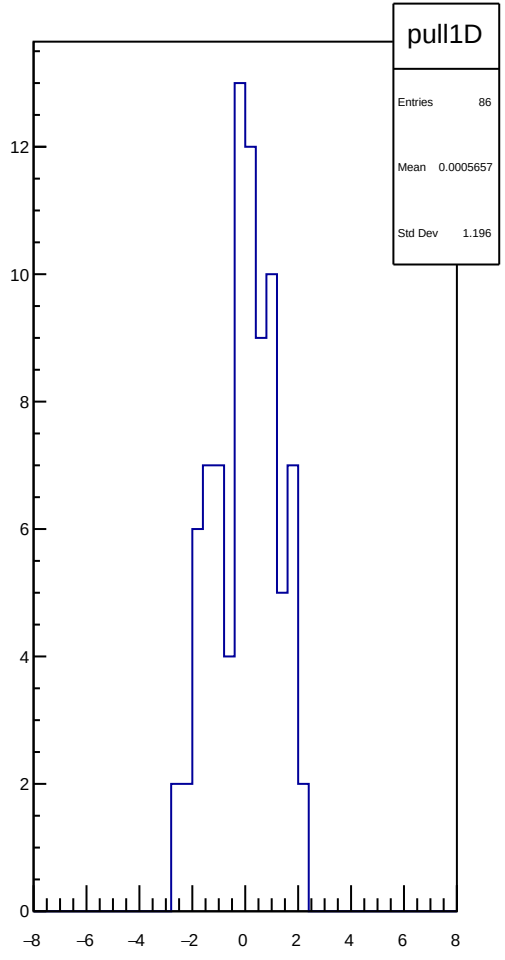

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 198.8 / 85
p0 1323 ± 1.04
1380
1360
1340
1320
1300
1280

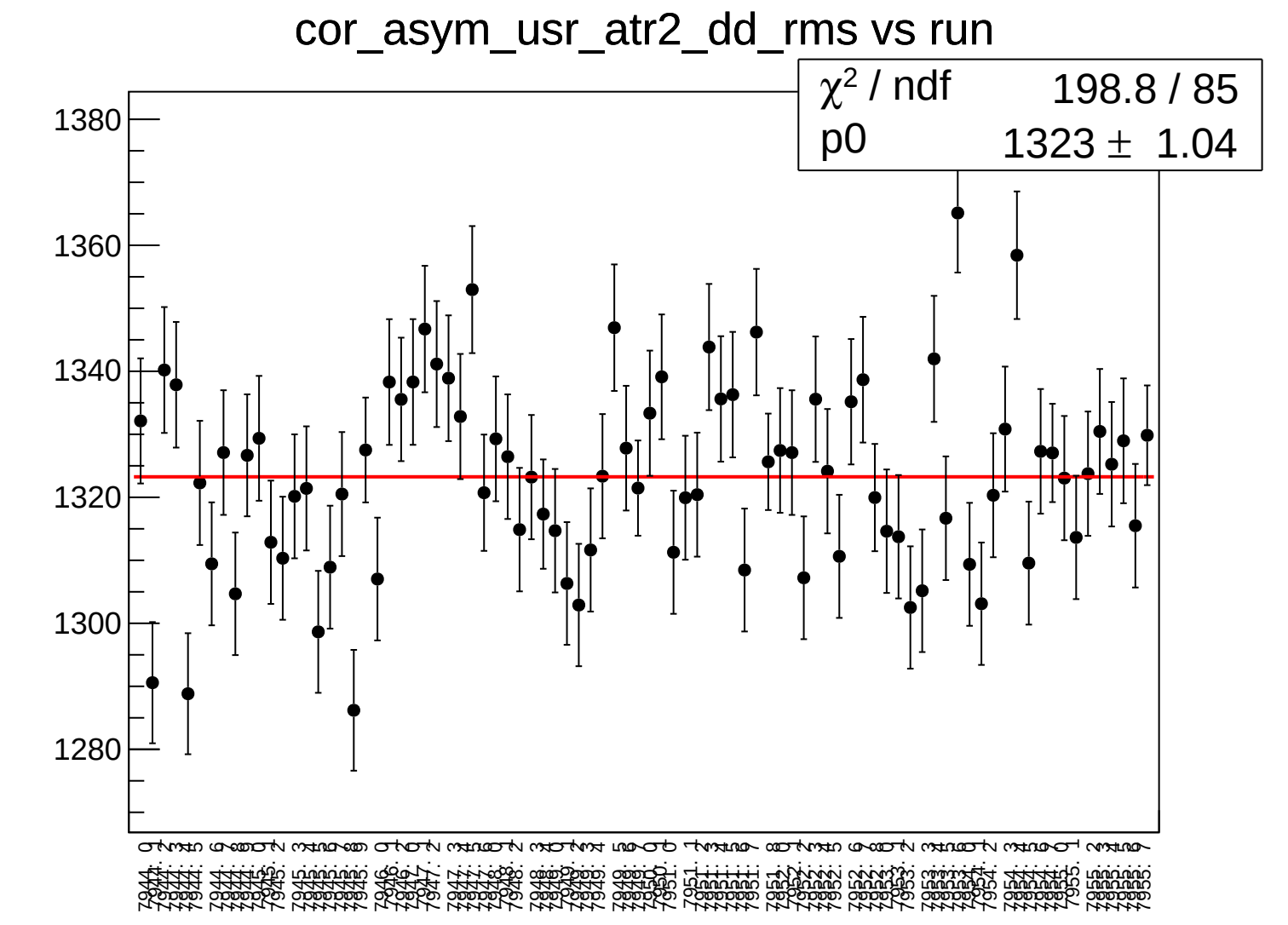

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.38 / 85
p0 2692 ± 6279
200
100
0
−100
−200
pull
Entries 86
Mean −275.4
Std Dev 0
2
1
0
−1
−2
−3

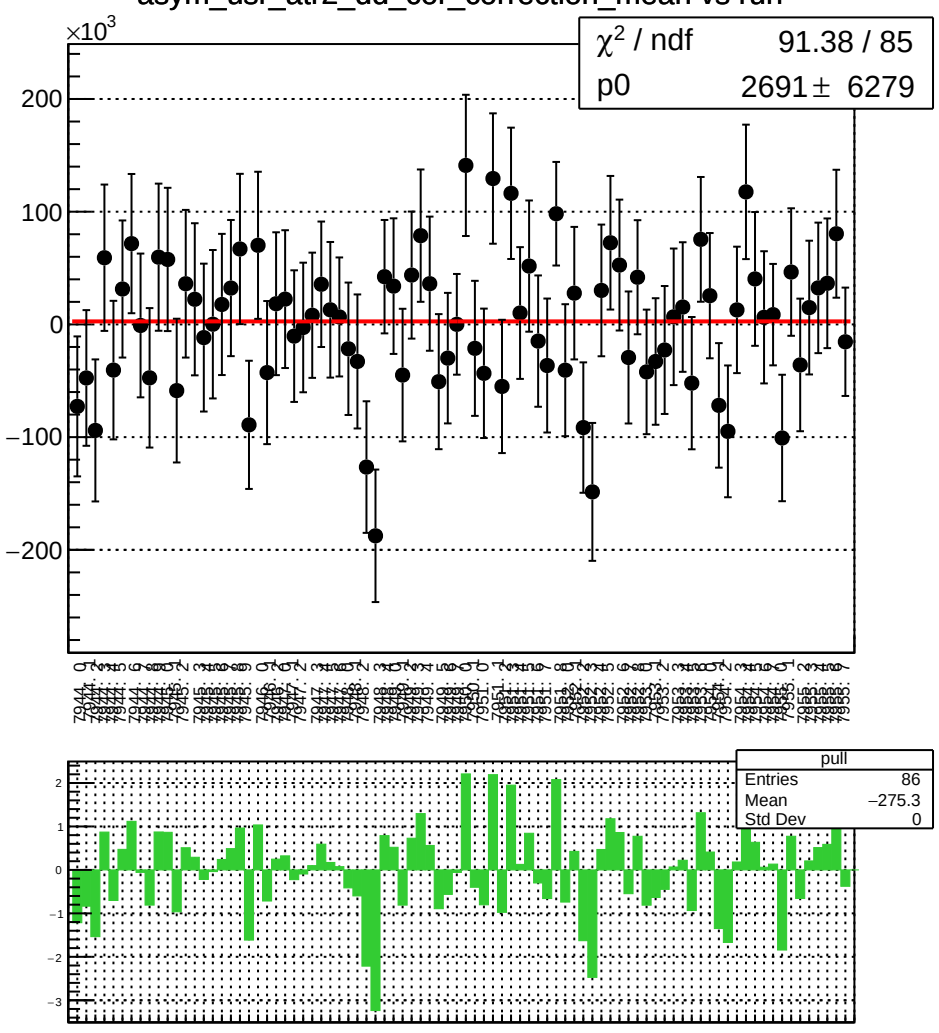

pull1D
Entries 86
Mean −0.004849
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

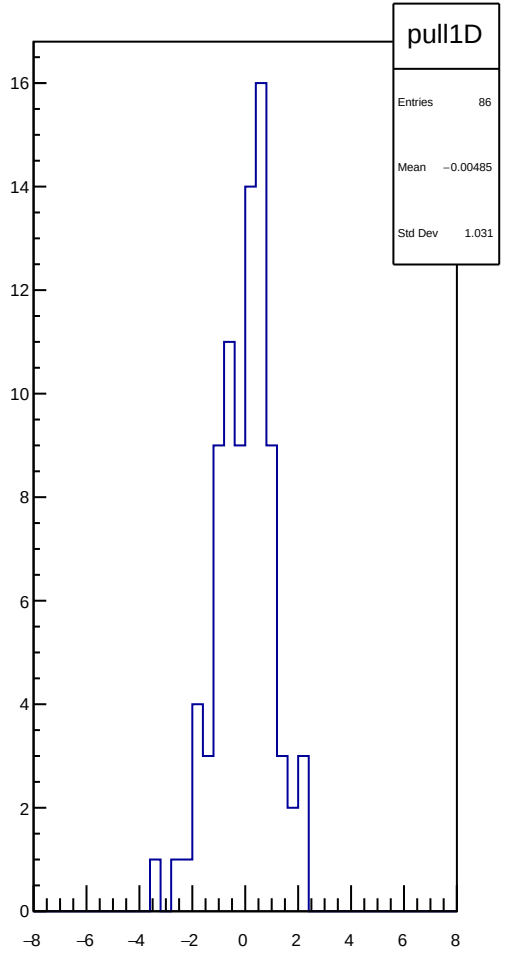

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3807 / 85
p0 5644 ± 4.44
6400
6200
6000
5800
5600
5400
5200

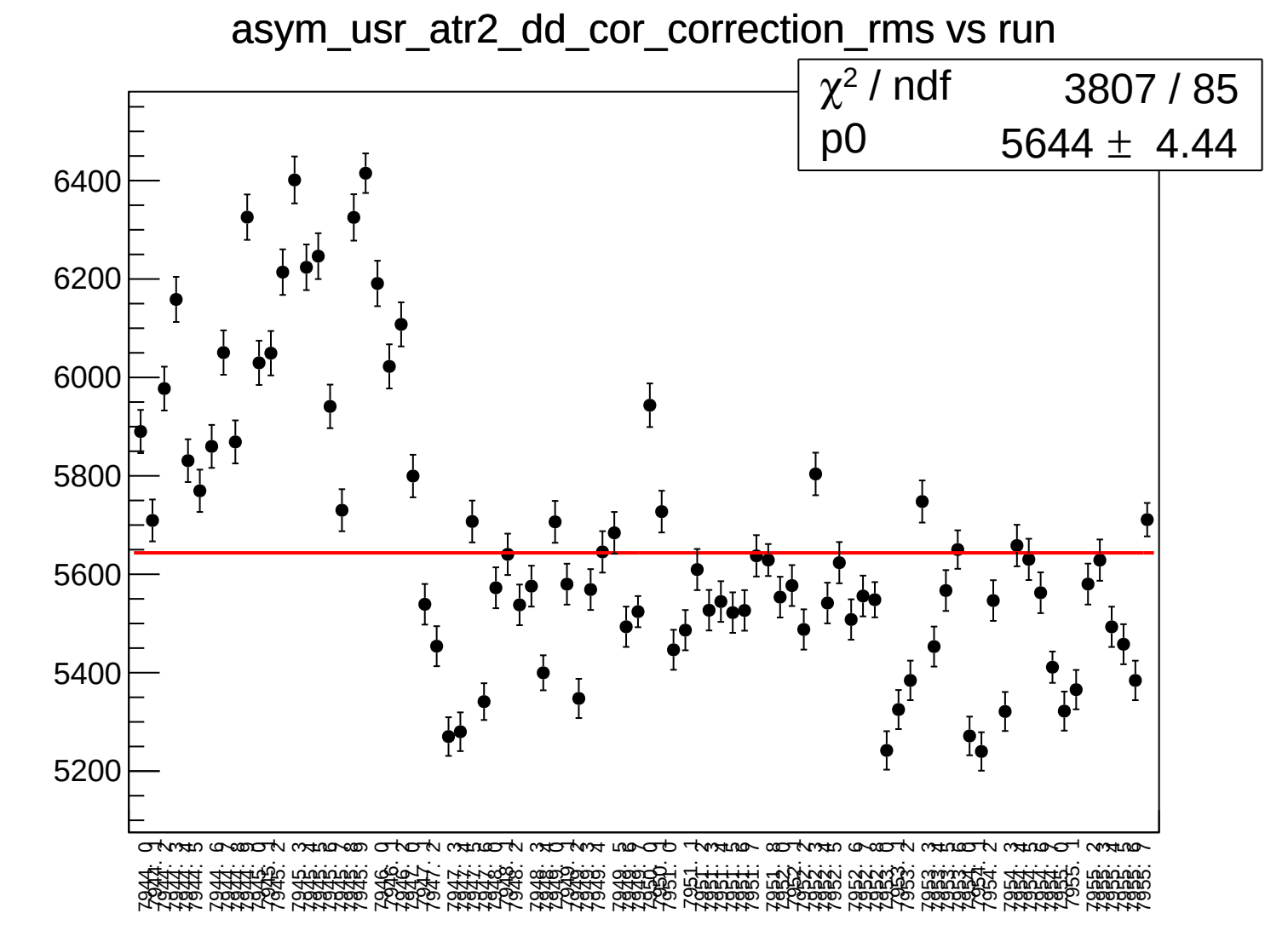

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 123 / 85
p0 −386.3 ± 1471
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2731
Std Dev 0
2
1
0
−1
−2

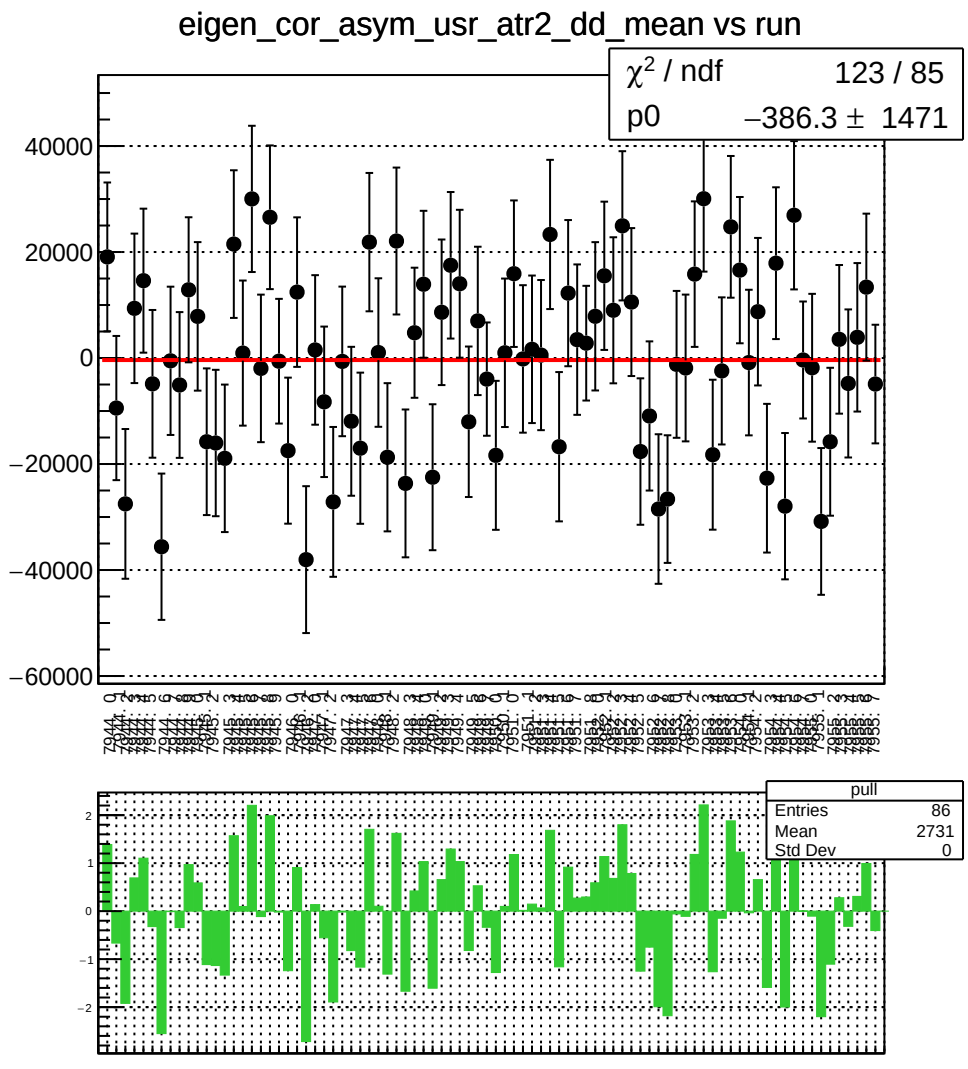

pull1D
Entries 86
Mean 0.0005657
Std Dev 1.196
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

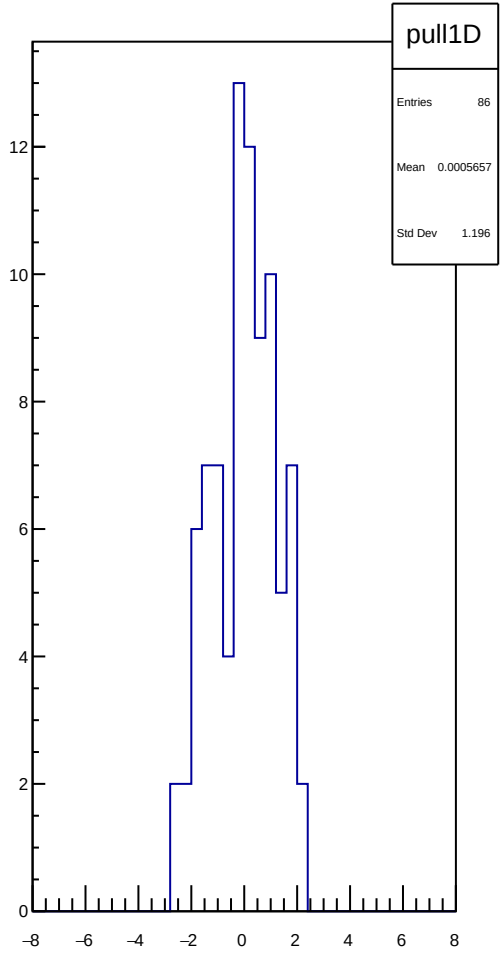

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 198.8 / 85
p0 1323 ± 1.04
1380
1360
1340
1320
1300
1280

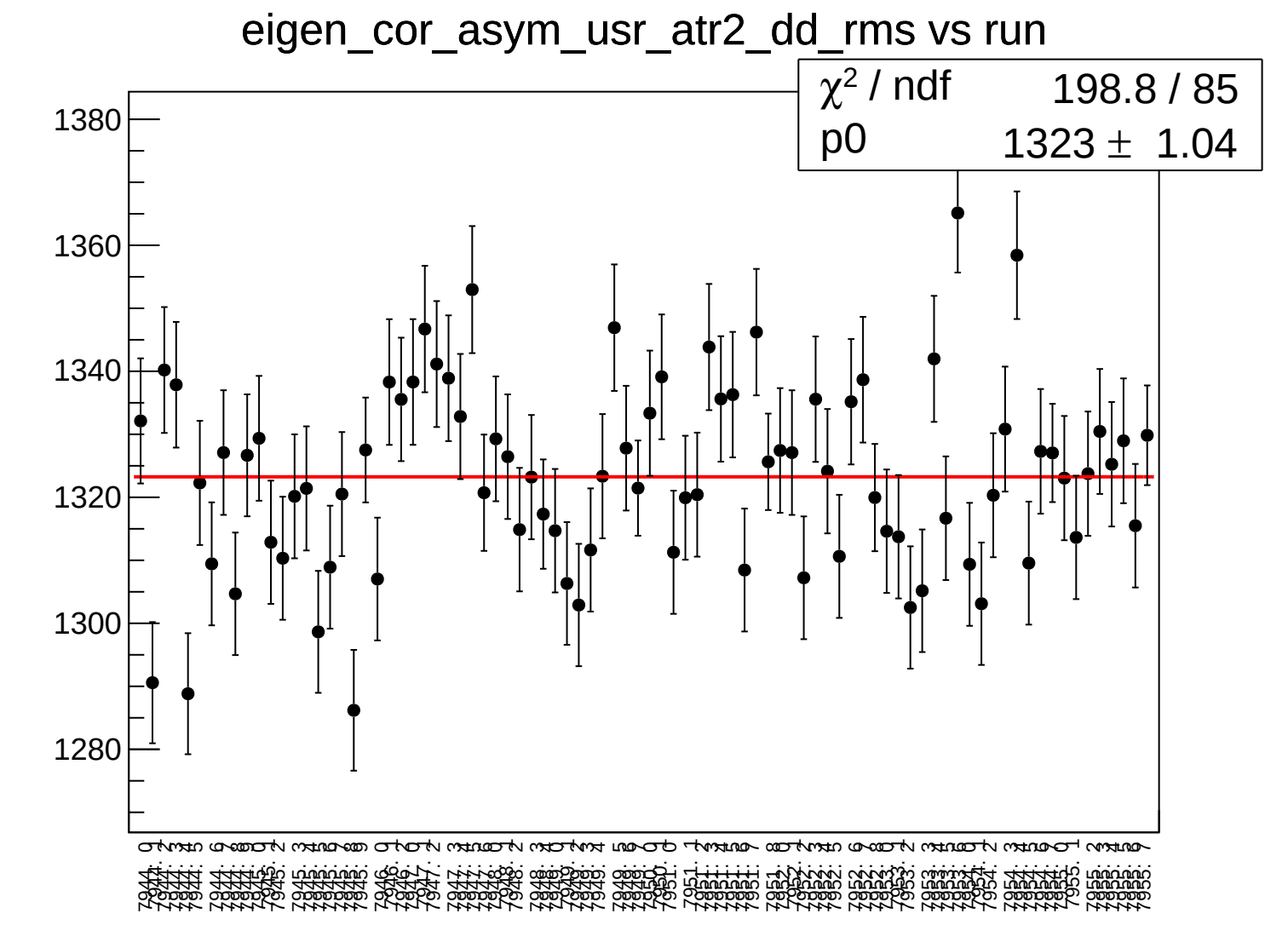

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.38 / 85
p0 2691 ± 6279
200
100
0
−100
−200
pull
Entries 86
Mean −275.3
Std Dev 0
2
1
0
−1
−2
−3

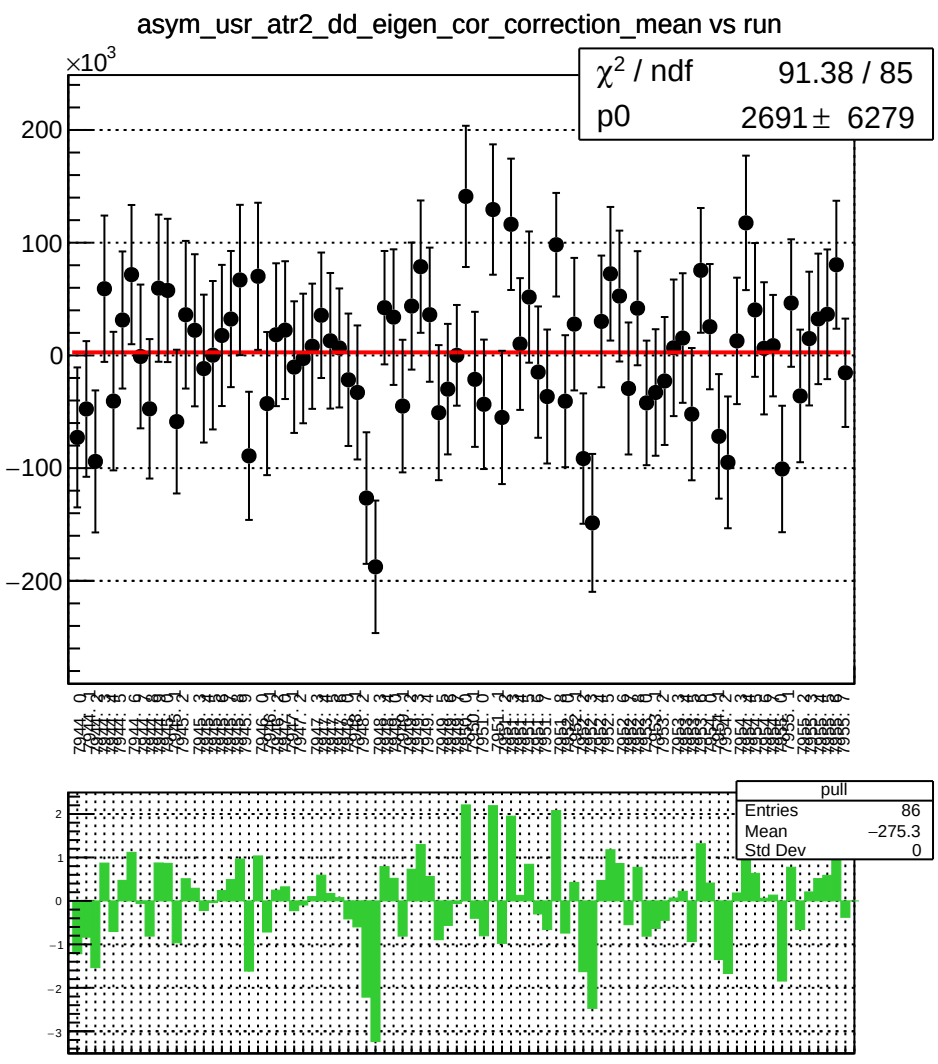

pull1D
Entries 86
Mean −0.00485
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

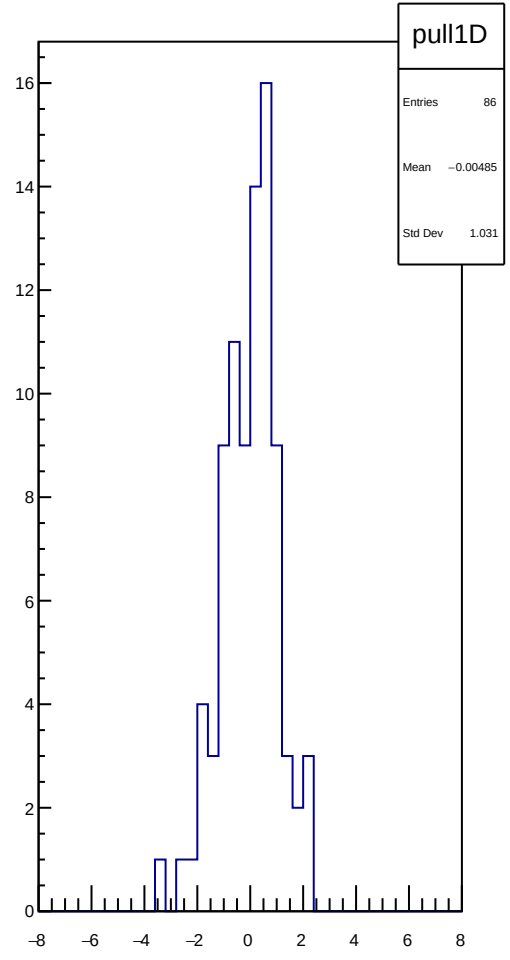

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 3807 / 85
p0 5644 ± 4.44
6400
6200
6000
5800
5600
5400
5200

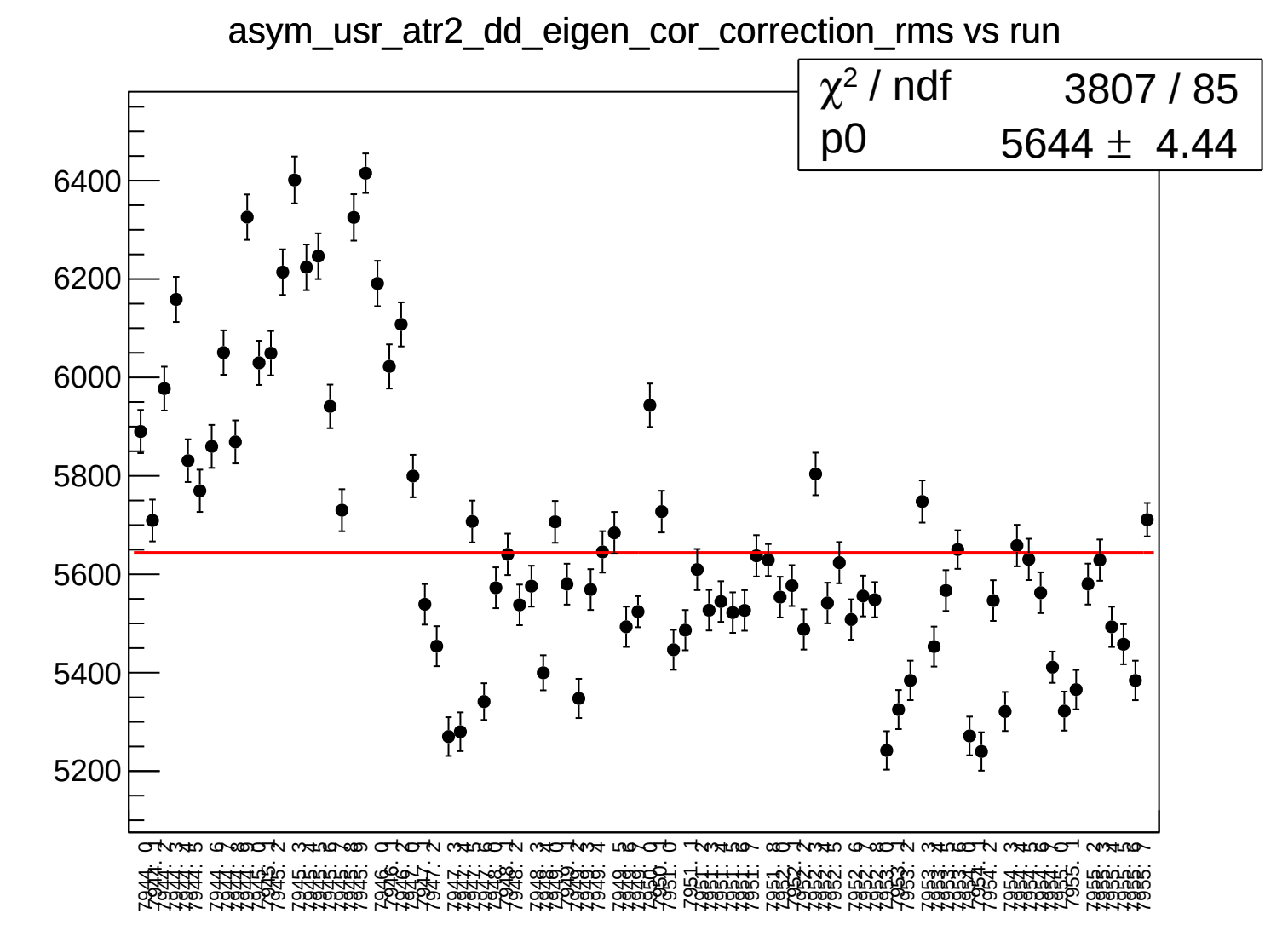

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 123 / 85
p0 −386.3 ± 1471
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2731
Std Dev 0
2
1
0
−1
−2

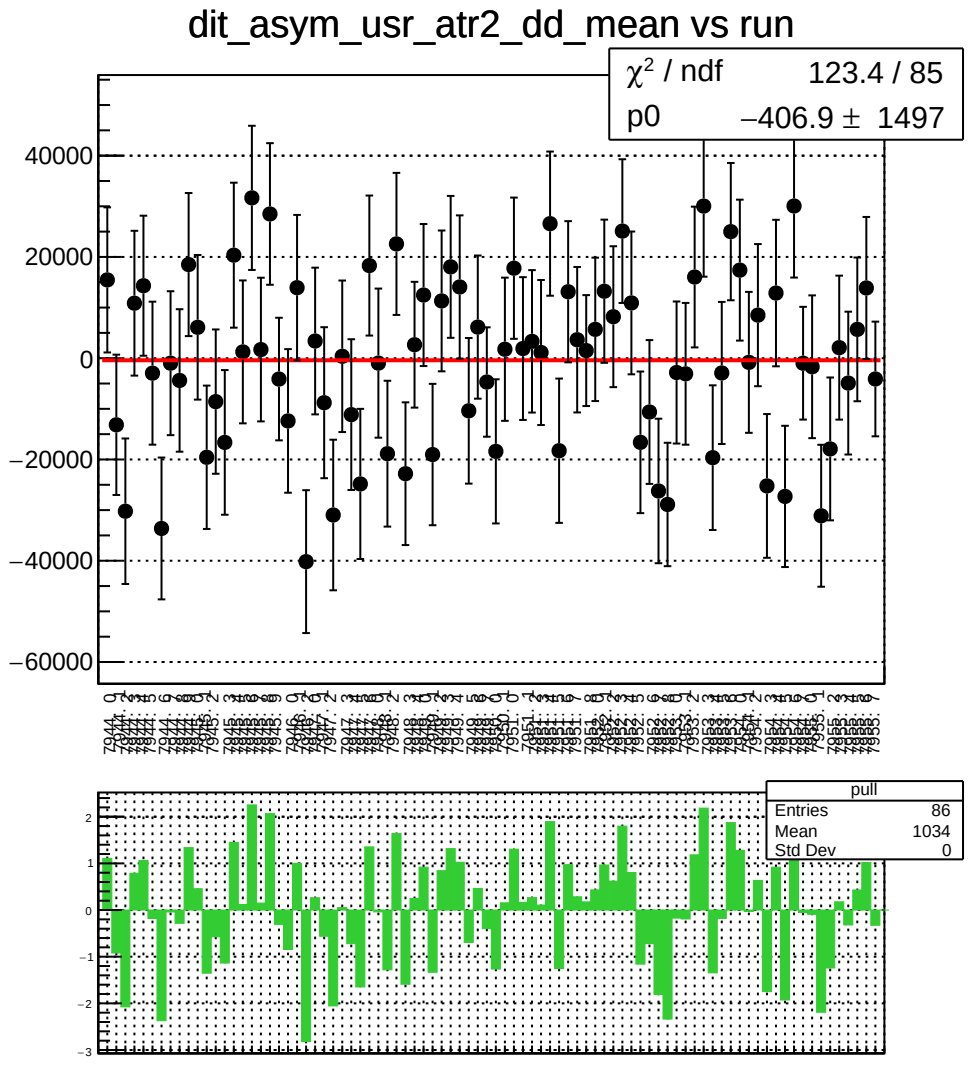

pull1D
Entries 86
Mean 0.0005657
Std Dev 1.196
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

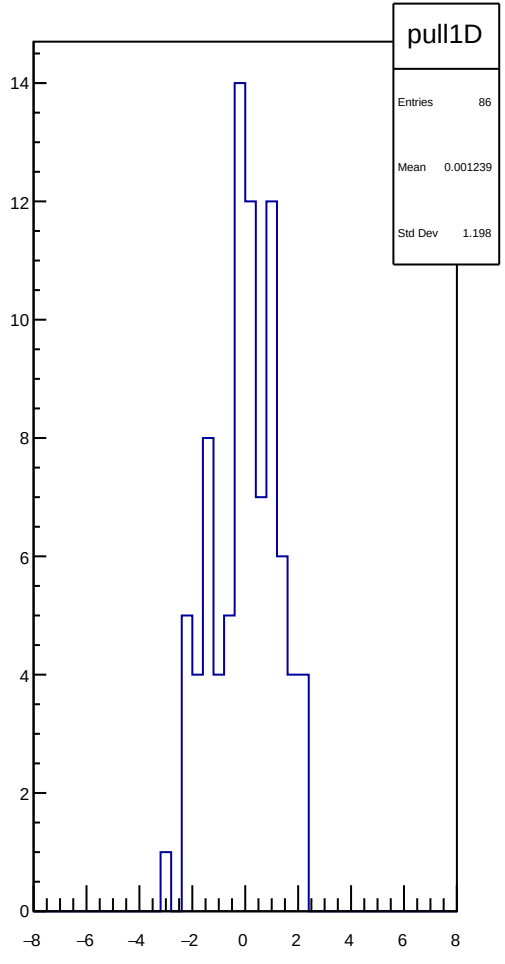

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 198.8 / 85
p0 1323 ± 1.04
1380
1360
1340
1320
1300
1280

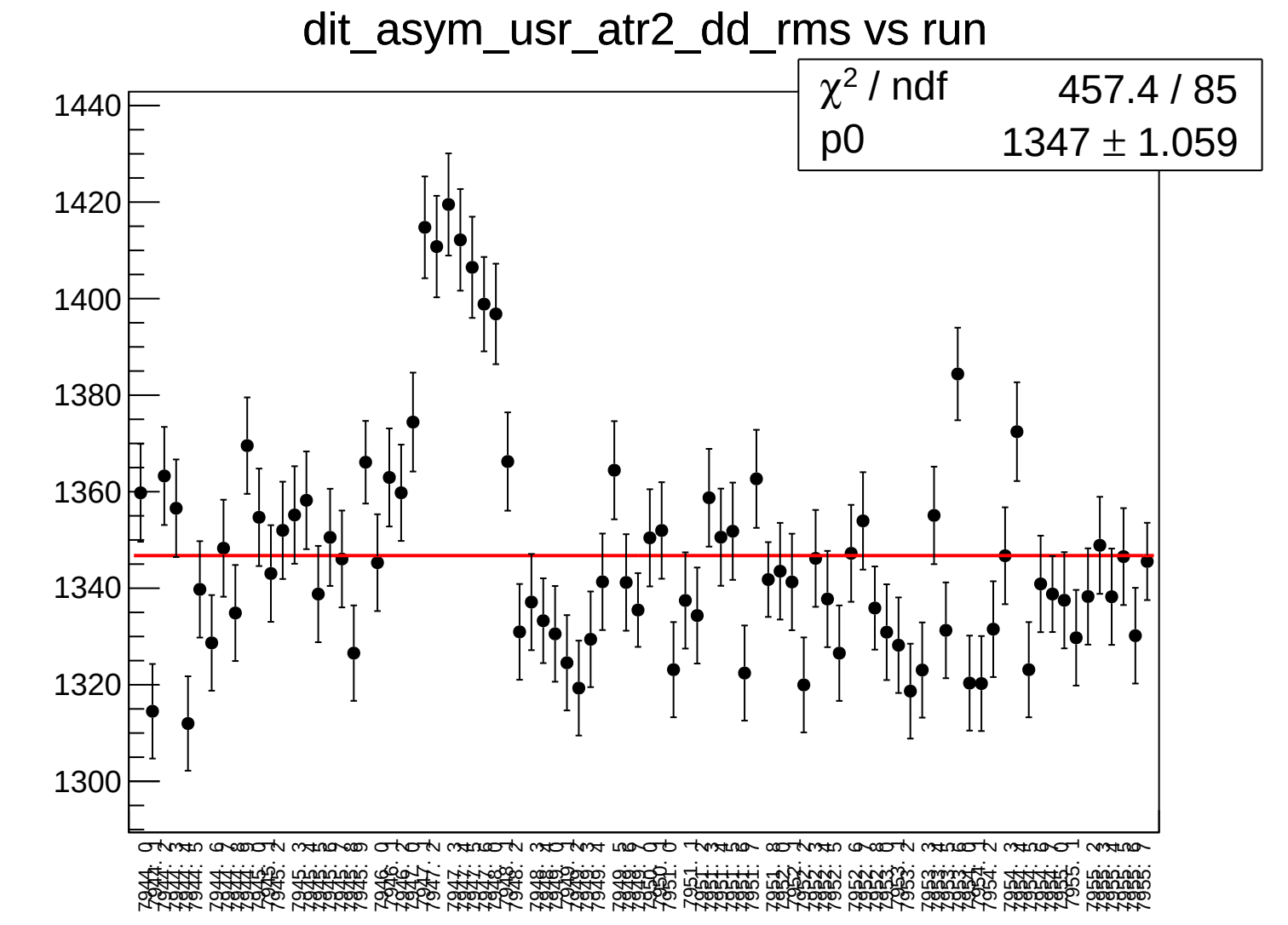

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.38 / 85
p0 2691 ± 6279
200
100
0
−100
−200
pull
Entries 86
Mean −275.3
Std Dev 0
2
1
0
−1
−2
−3

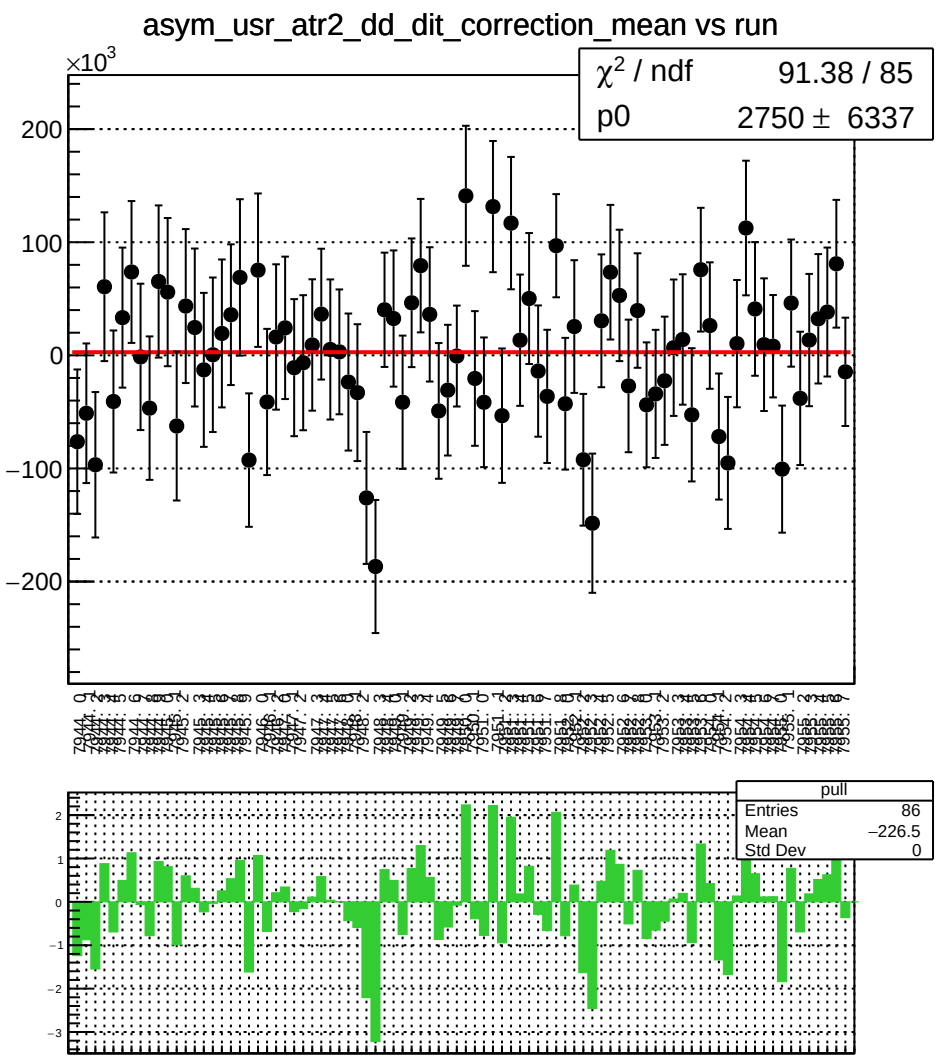

pull1D
Entries 86
Mean −0.00485
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

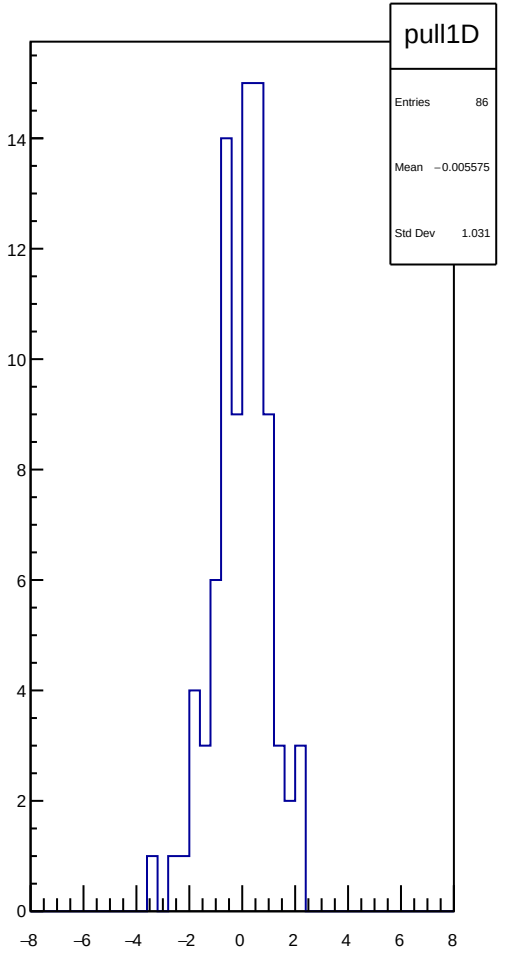

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3807 / 85
p0 5644 ± 4.44
6400
6200
6000
5800
5600
5400
5200

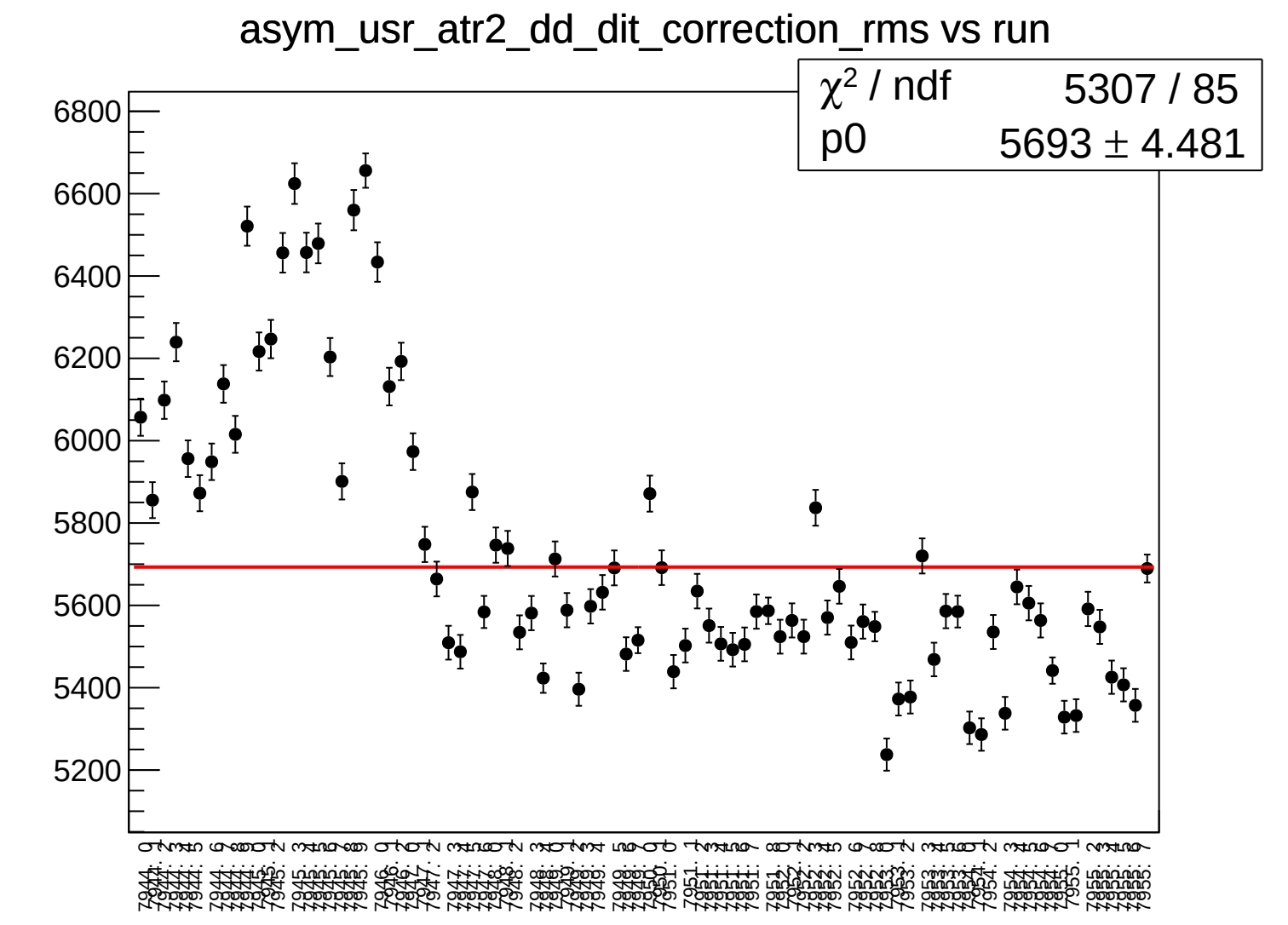

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 123.4 / 85
p0 −406.9 ± 1497
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1034
Std Dev 0
2
1
0
−1
−2
−3

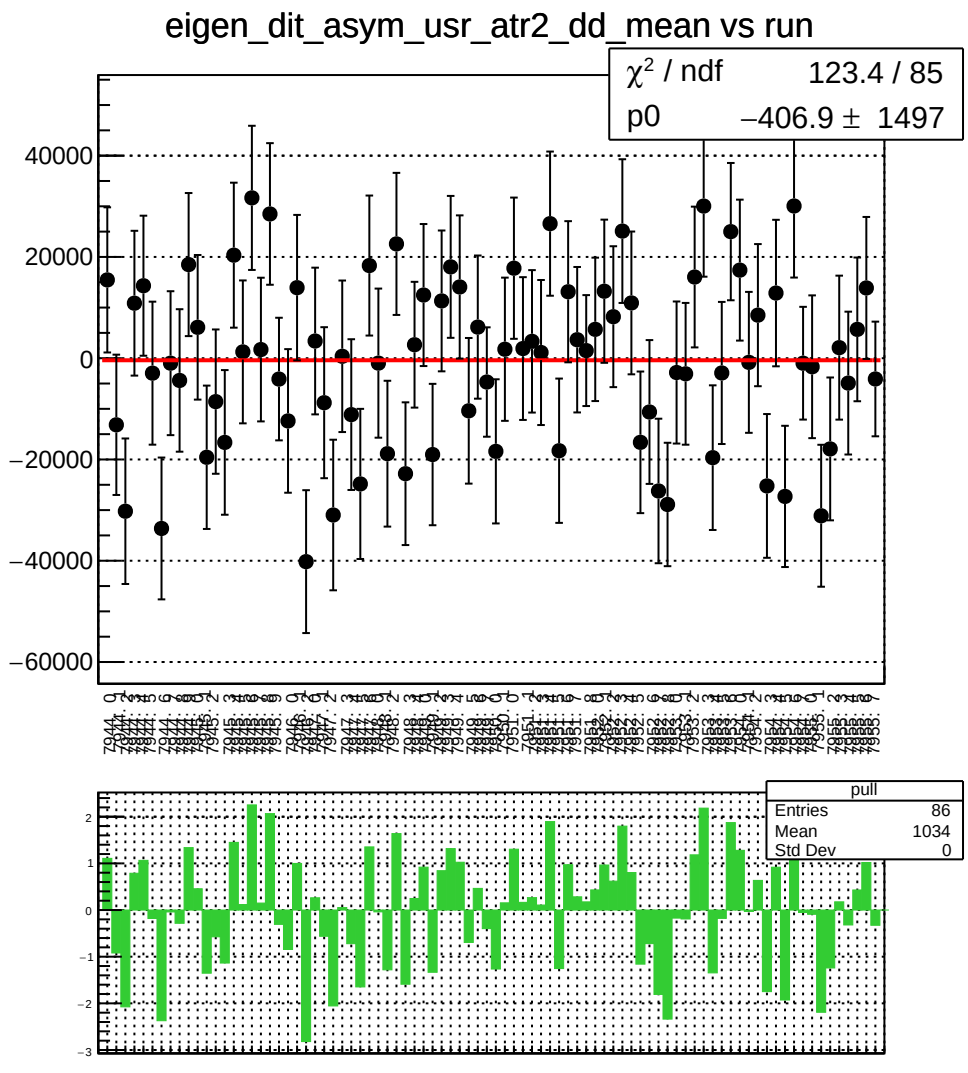

pull1D
Entries 86
Mean 0.001239
Std Dev 1.198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

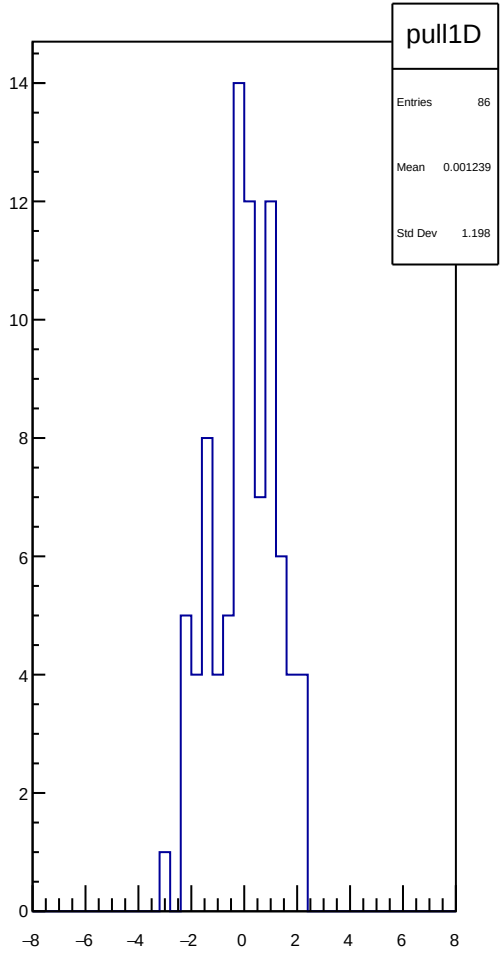

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 457.4 / 85
p0 1347 ± 1.059
1440
1420
1400
1380
1360
1340
1320
1300

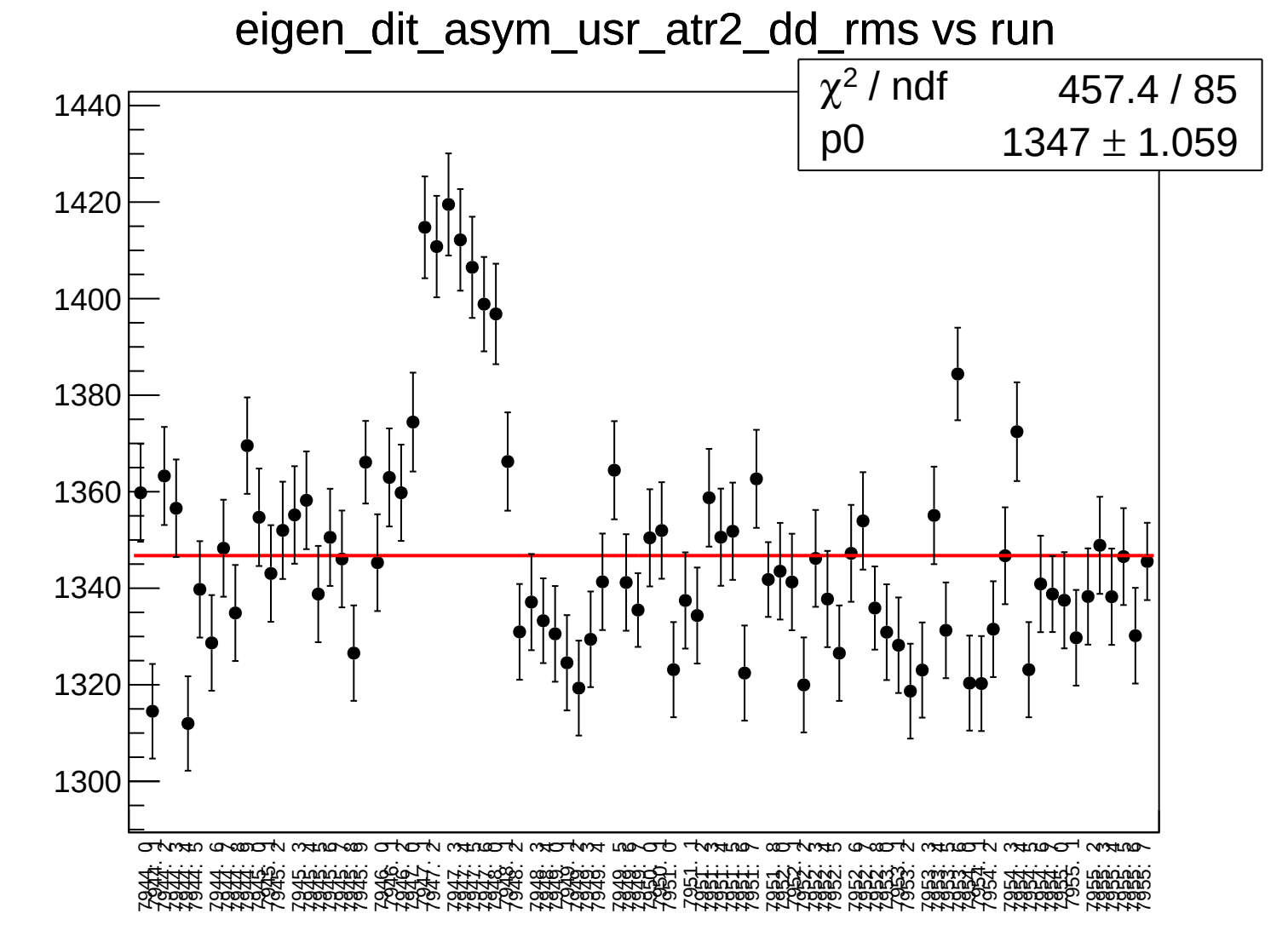

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 91.38 / 85
p0 2750 ± 6337
200
100
0
−100
−200
pull
Entries 86
Mean −226.5
Std Dev 0
2
1
0
−1
−2
−3

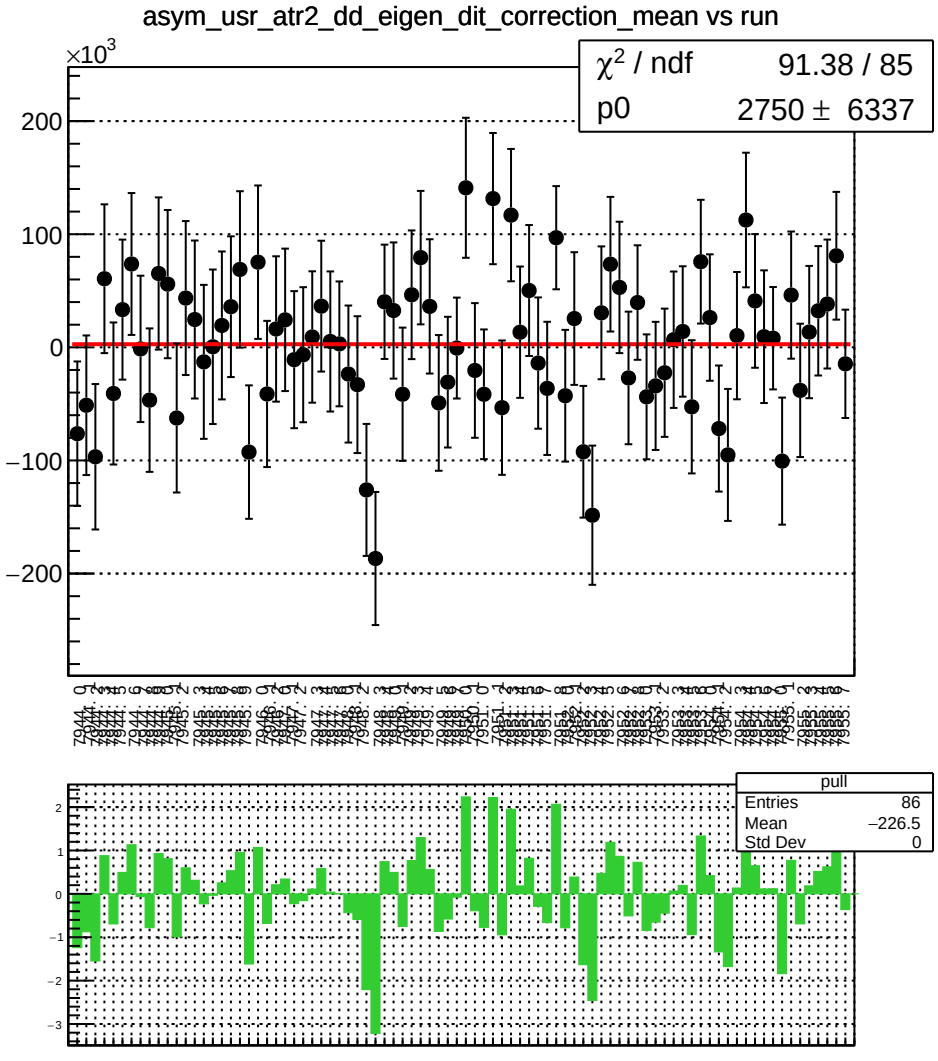

pull1D
Entries 86
Mean −0.005575
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

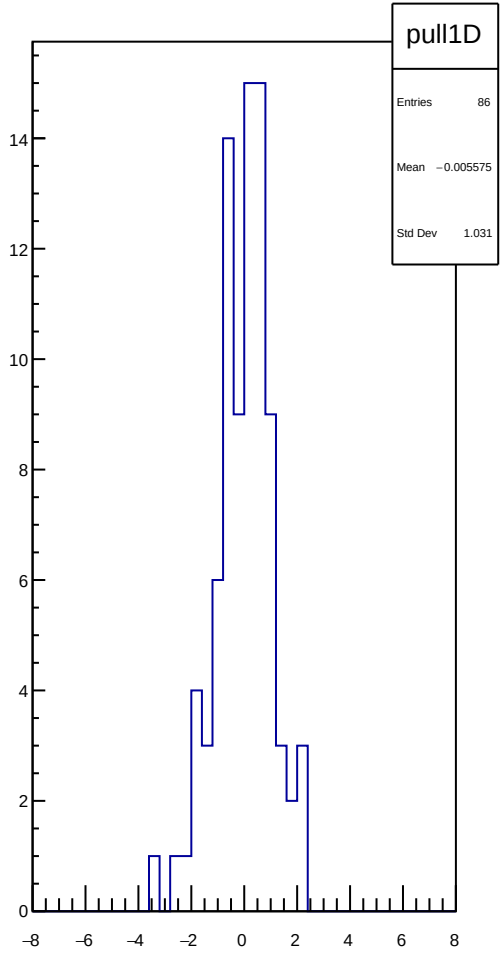

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 5307 / 85
p0 5693 ± 4.481
6800
6600
6400
6200
6000
5800
5600
5400
5200

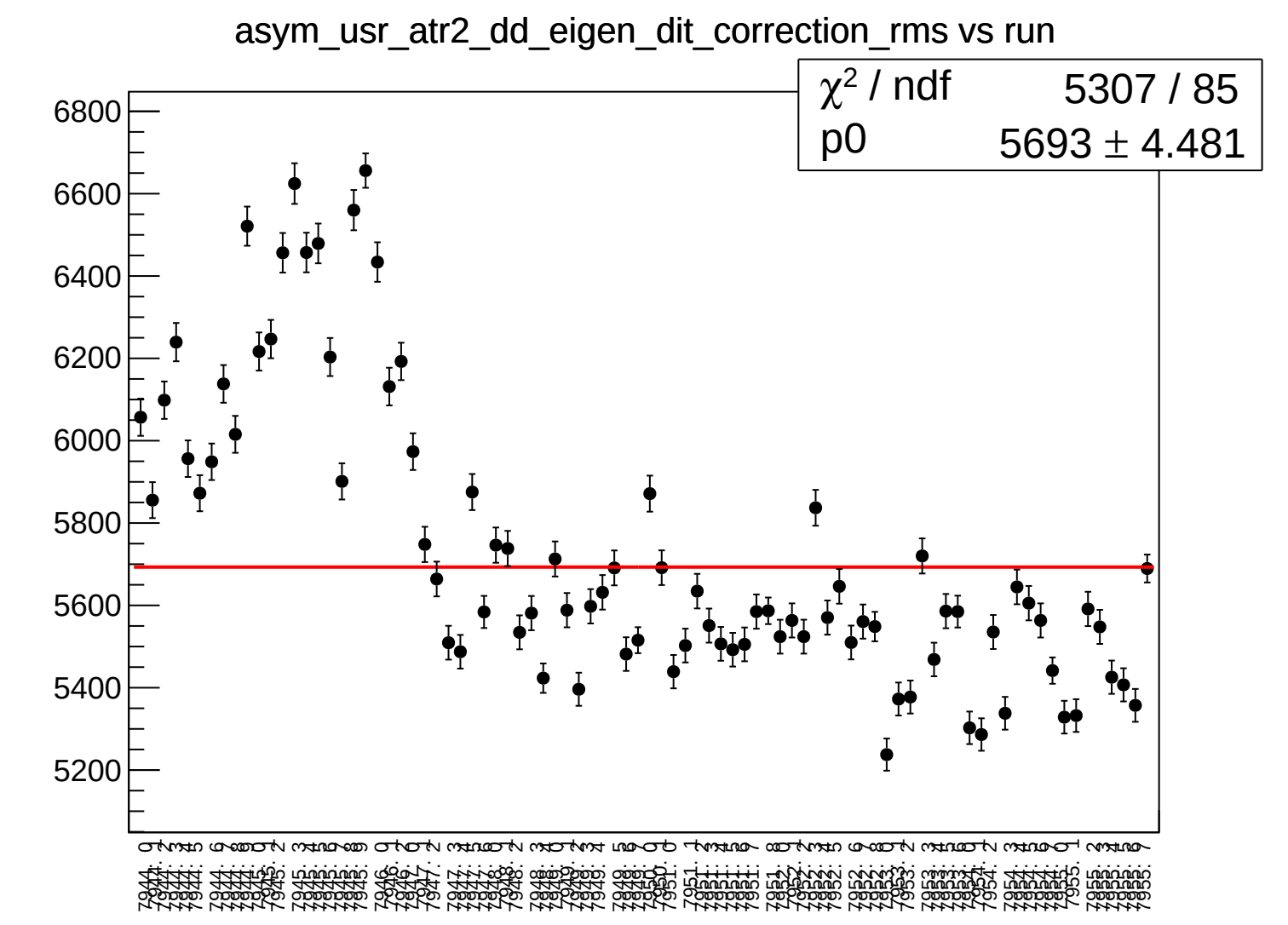

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 123.4 / 85
p0 −406.9 ± 1497
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1034
Std Dev 0
2
1
0
−1
−2
−3

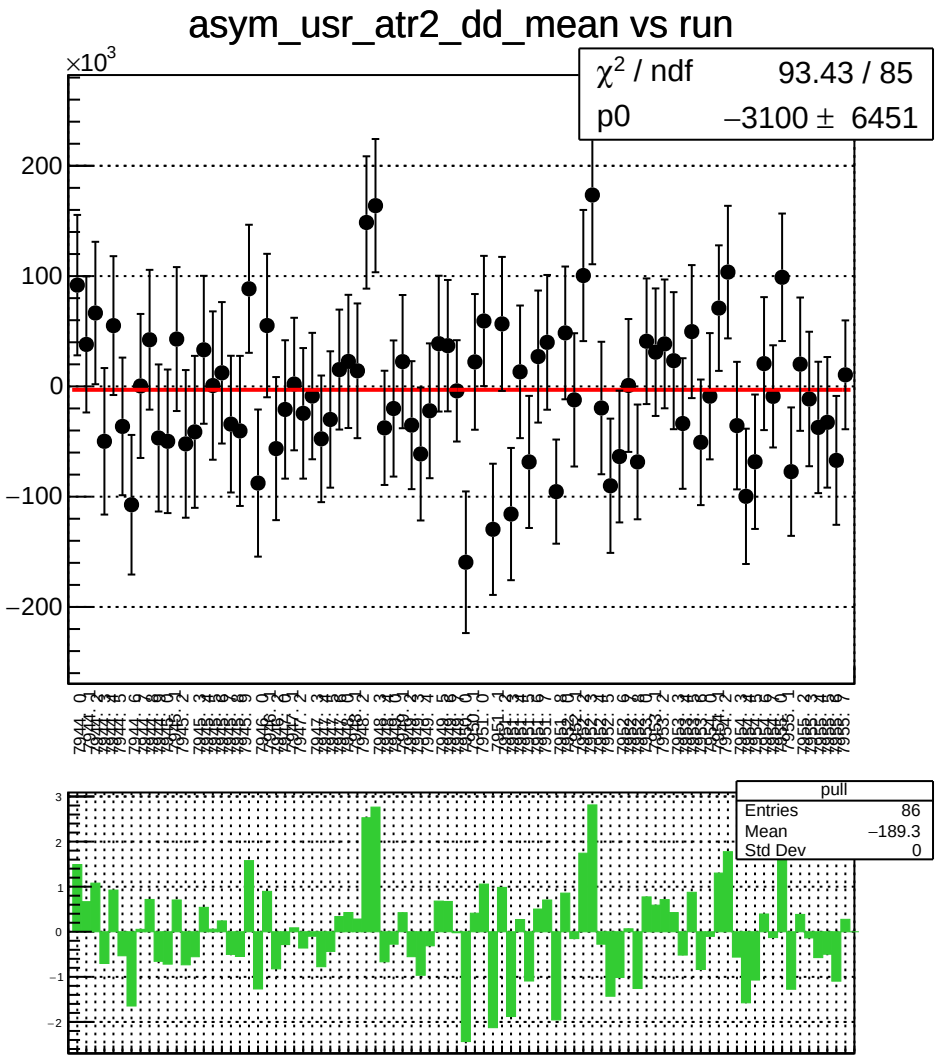

pull1D
Entries 86
Mean 0.001239
Std Dev 1.198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

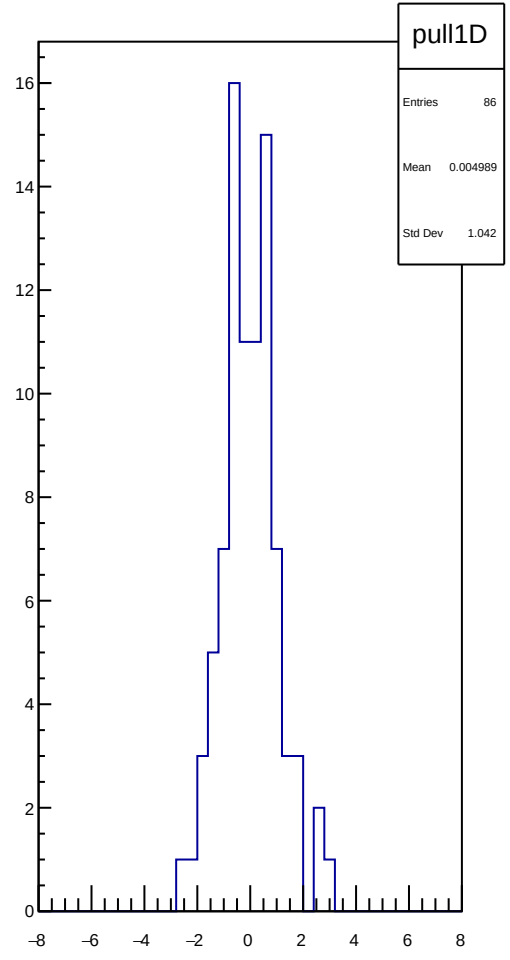

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 457.4 / 85
p0 1347 ± 1.059
1440
1420
1400
1380
1360
1340
1320
1300

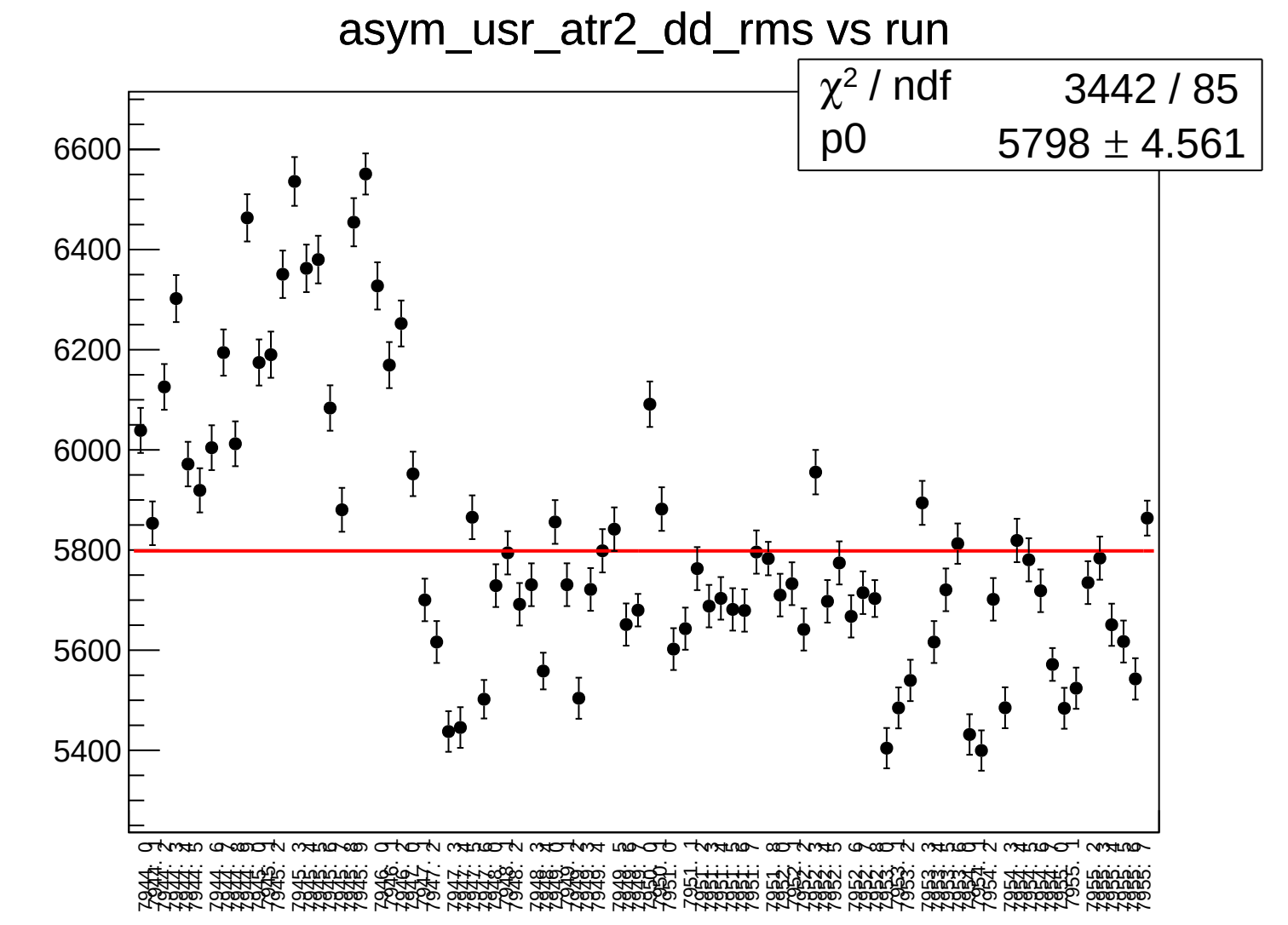

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.38 / 85
p0 2750 ± 6337
200
100
0
−100
−200
pull
Entries 86
Mean −226.5
Std Dev 0
2
1
0
−1
−2
−3

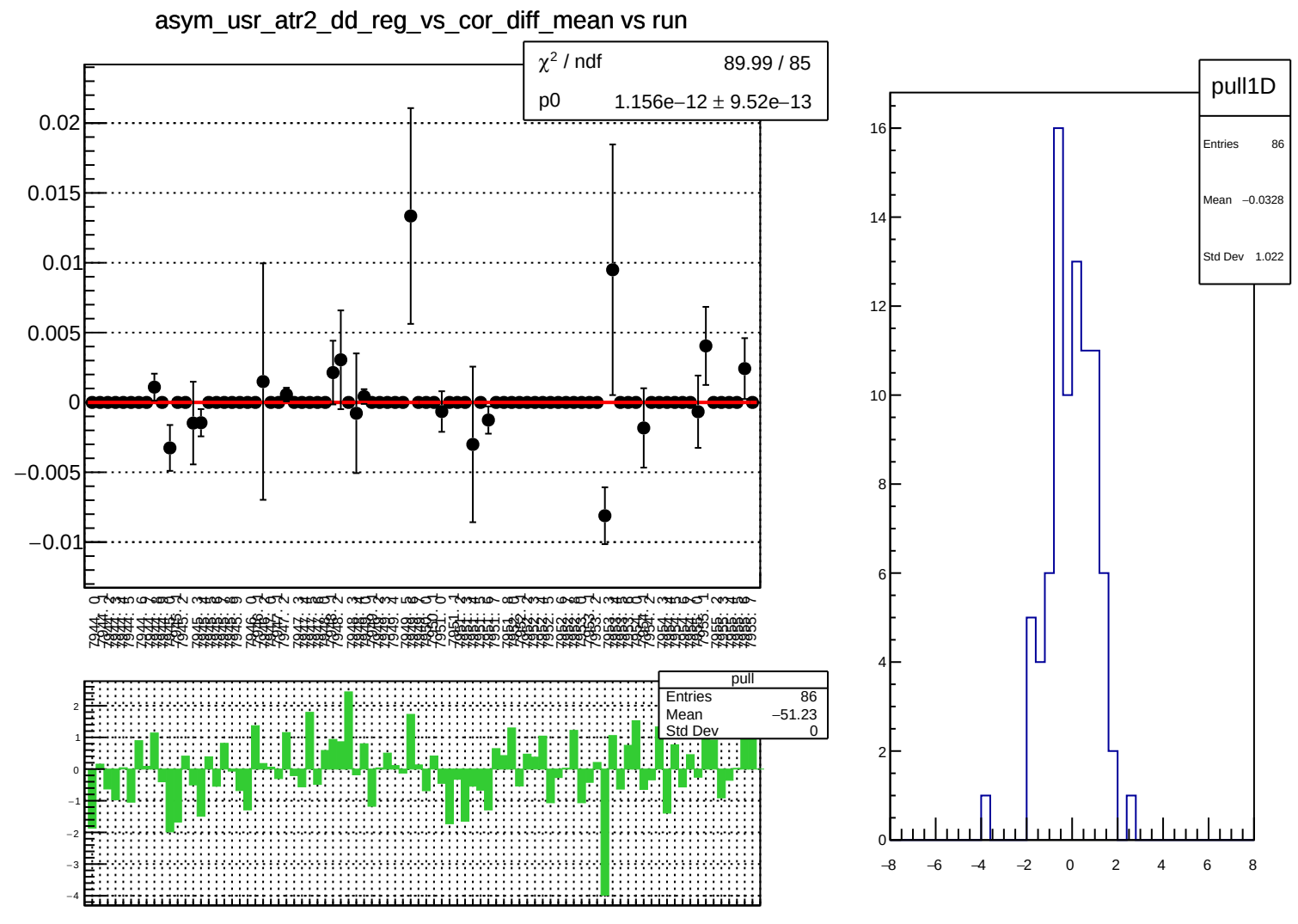

pull1D
Entries 86
Mean −0.005575
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

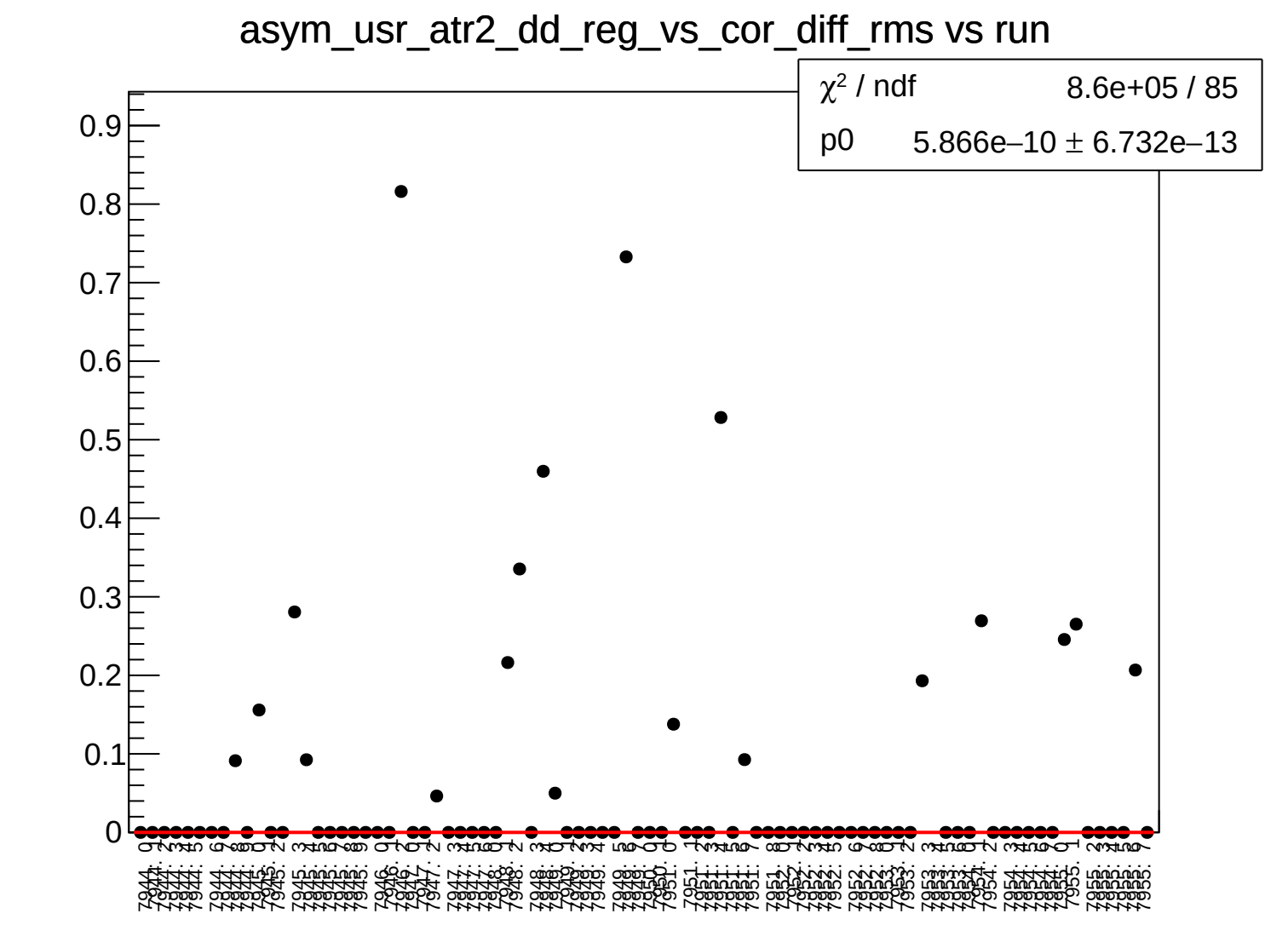

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5307 / 85
p0 5693 ± 4.481
6800
6600
6400
6200
6000
5800
5600
5400
5200

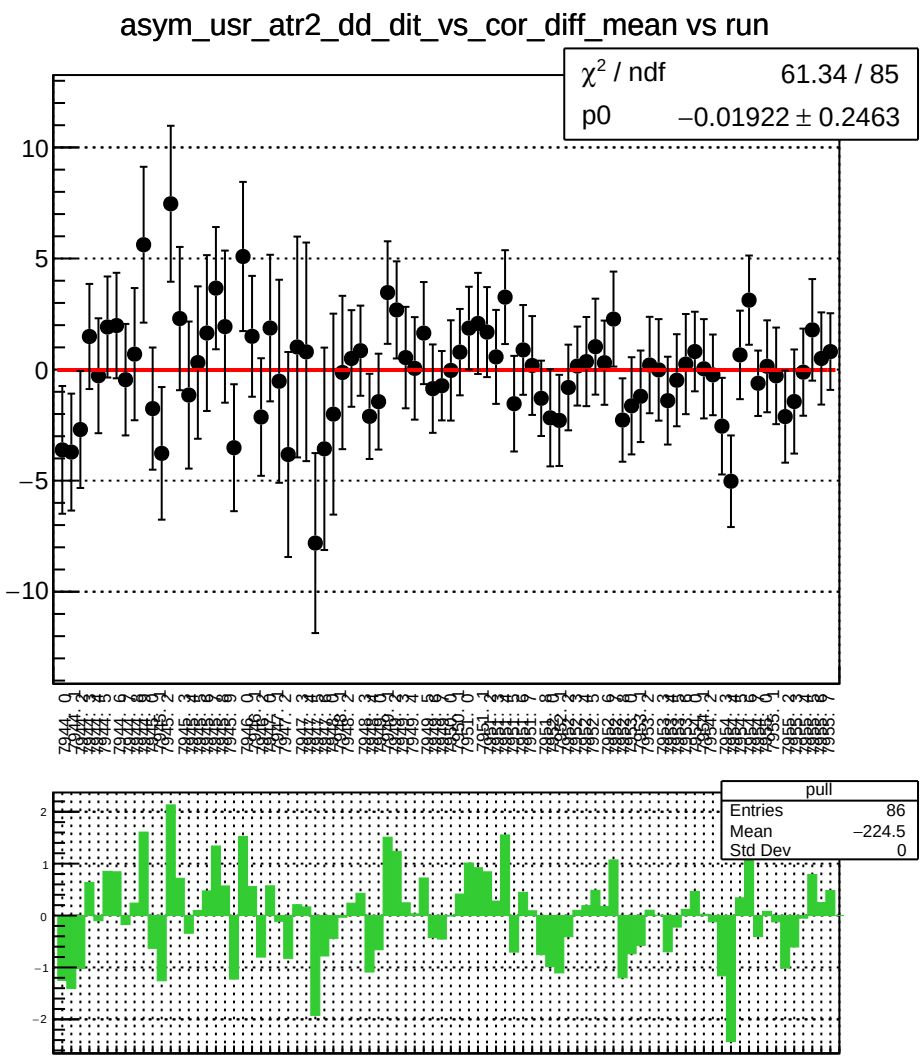

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 93.43 / 85
p0 −3100 ± 6451
200
100
0
−100
−200
pull
Entries 86
Mean −189.3
Std Dev 0
3
2
1
0
−1
−2

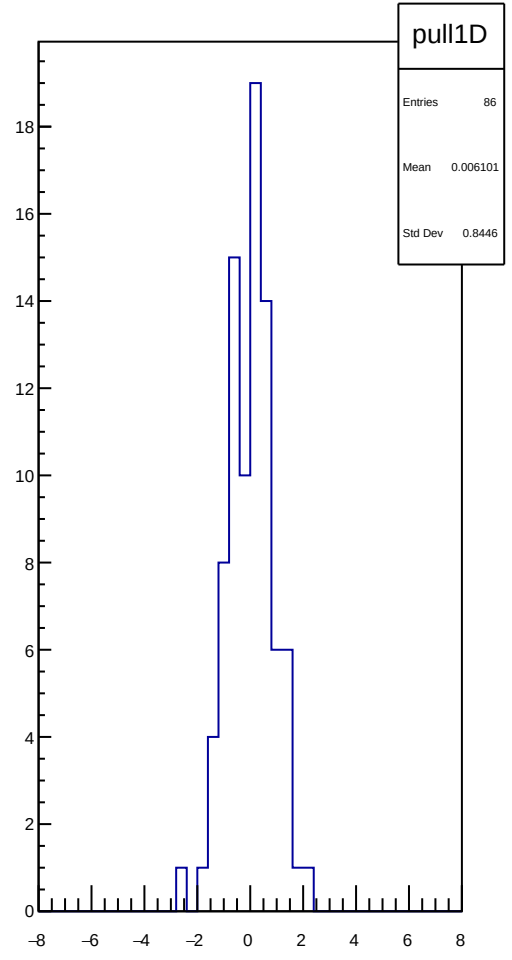

pull1D
Entries 86
Mean 0.004989
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

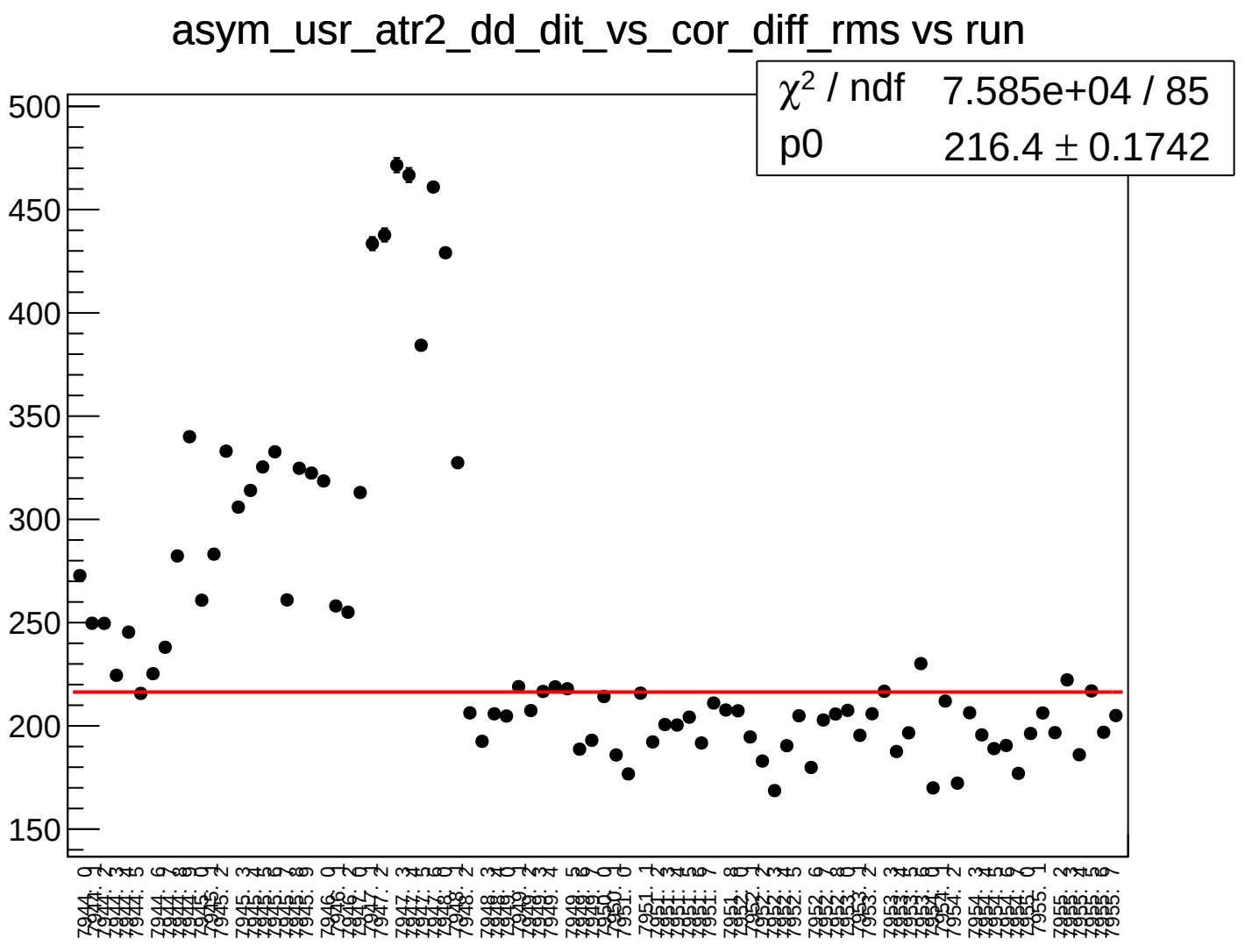

asym_usr_atr2_dd_rms vs run
χ² / ndf 3442 / 85
p0 5798 ± 4.561
6600
6400
6200
6000
5800
5600
5400

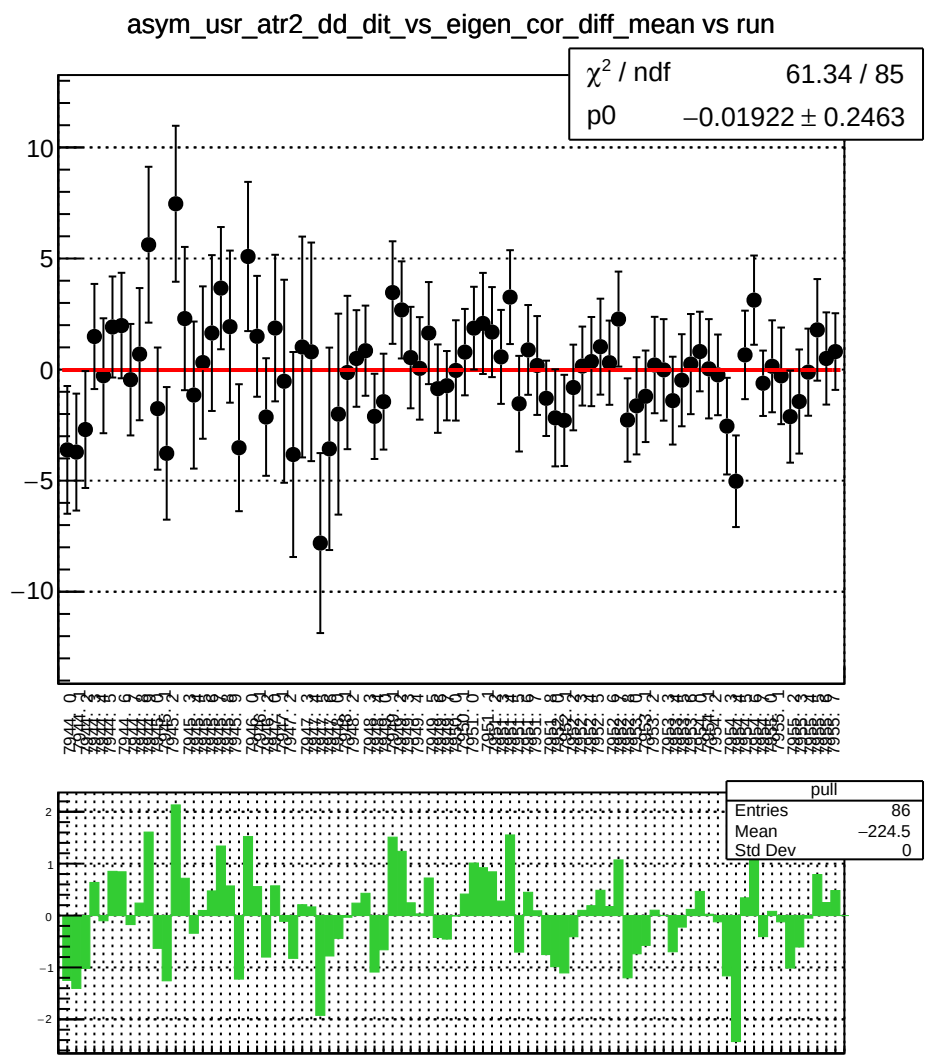

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.99 / 85
p0 1.156e−12 ± 9.52e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean −51.23
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean −0.0328
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

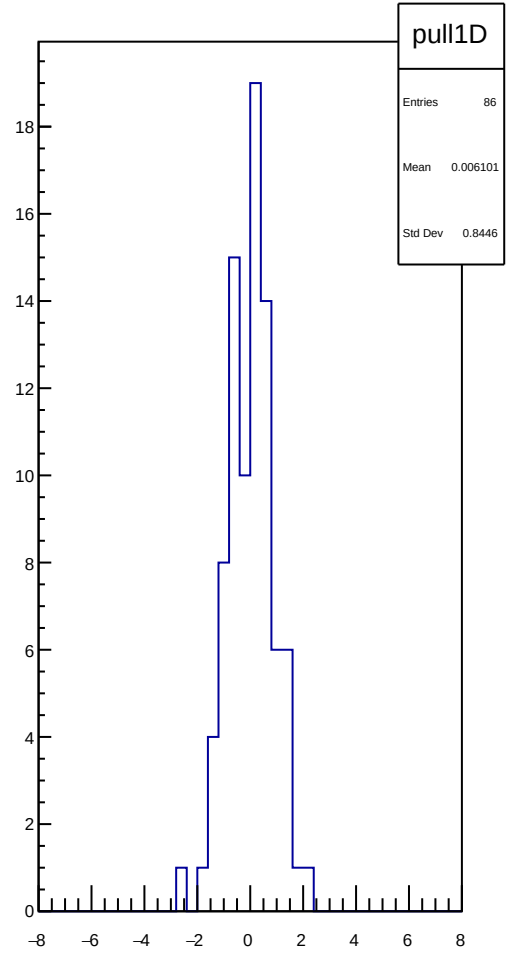

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.6e+05 / 85
p0 5.866e−10 ± 6.732e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

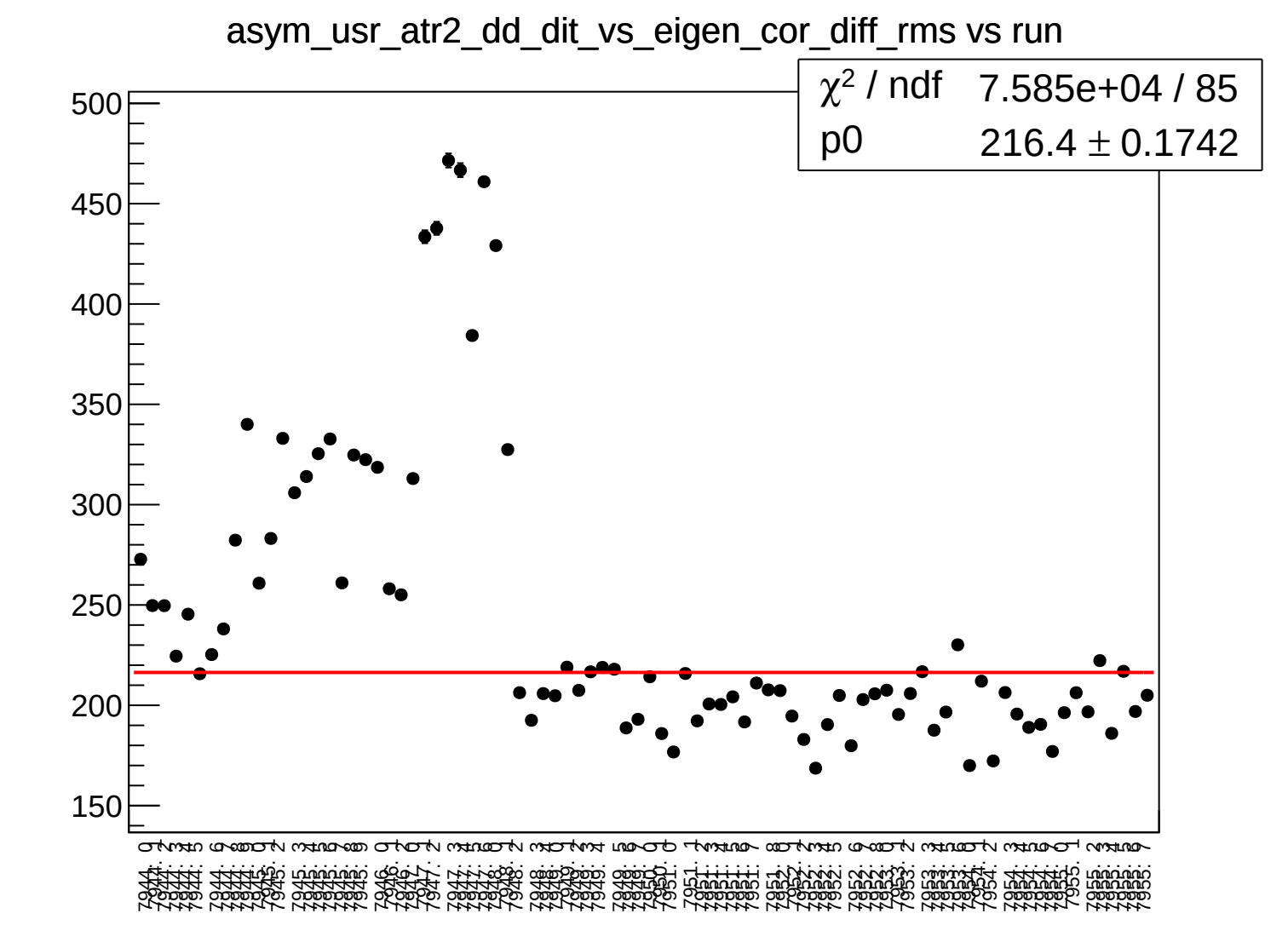

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.34 / 85
p0 −0.01922 ± 0.2463
pull
Entries 86
Mean −224.5
Std Dev 0

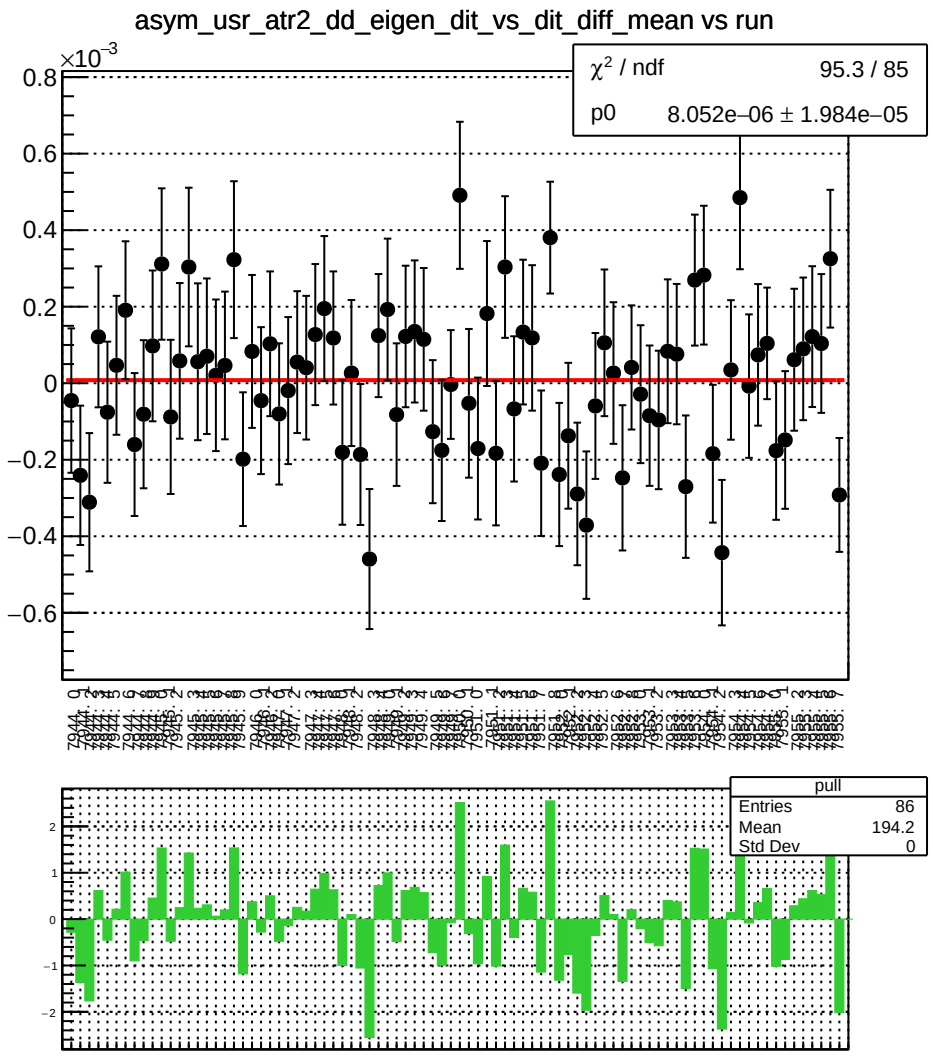

pull1D
Entries 86
Mean 0.006101
Std Dev 0.8446

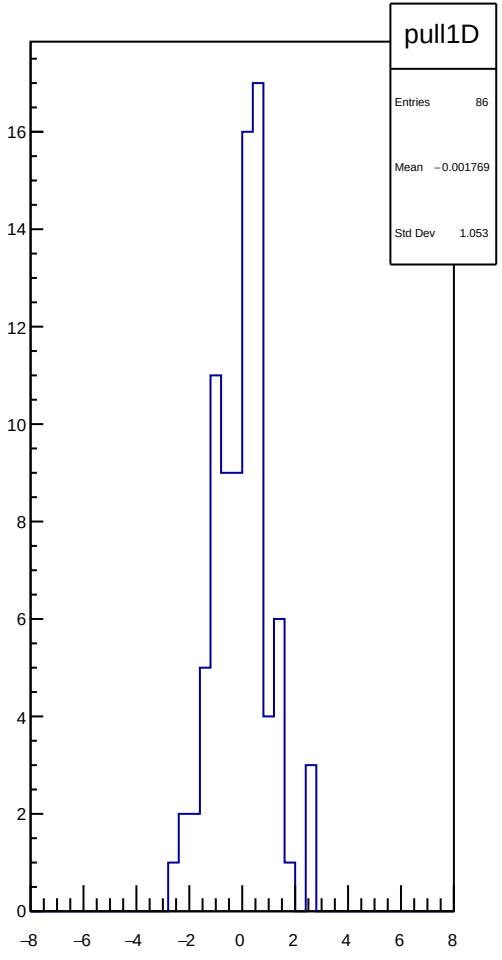

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.585e+04 / 85
p0 216.4 ± 0.1742
500
450
400
350
300
250
200
150

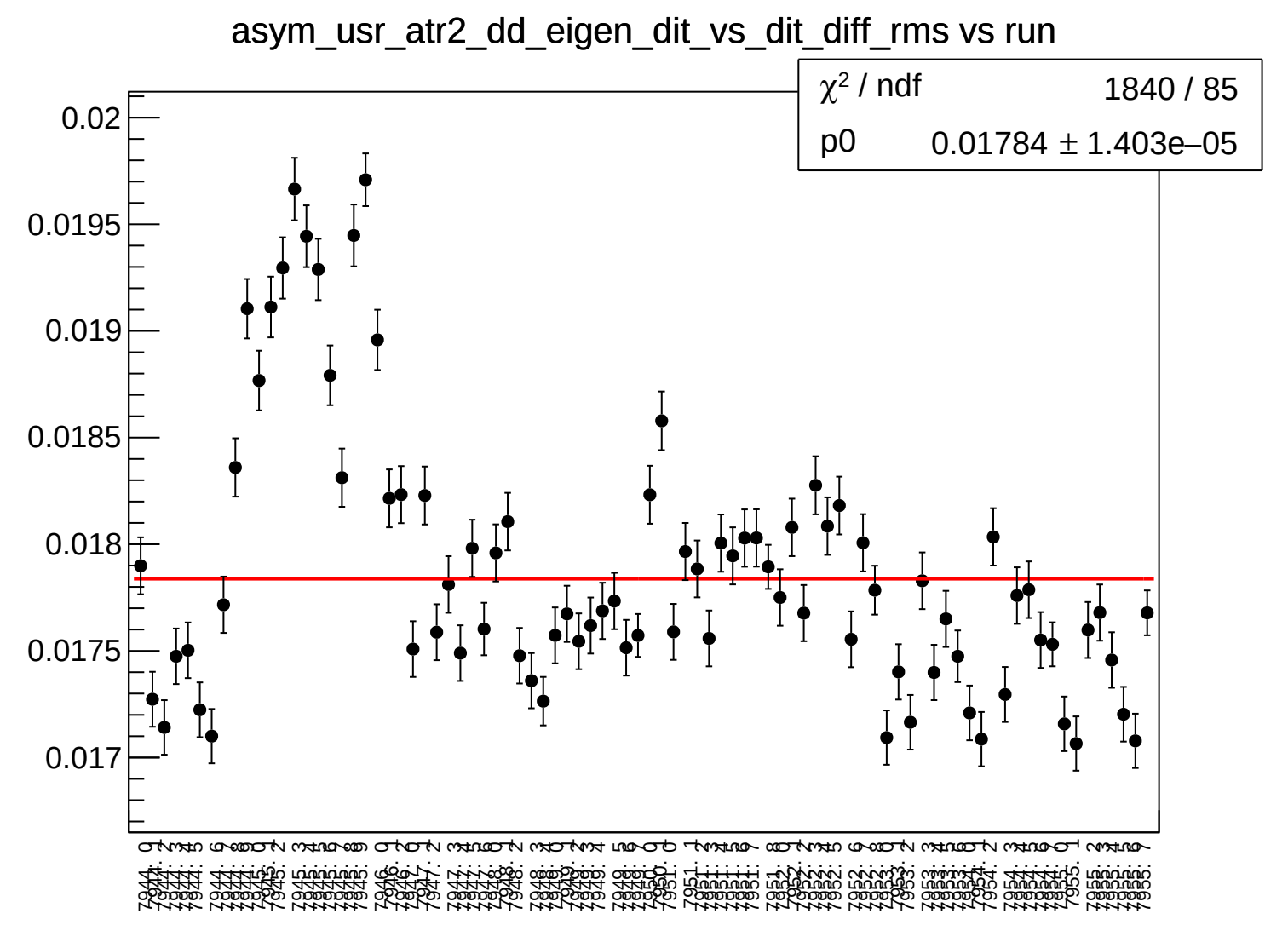

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.34 / 85
p0 −0.01922 ± 0.2463
pull
Entries 86
Mean −224.5
Std Dev 0

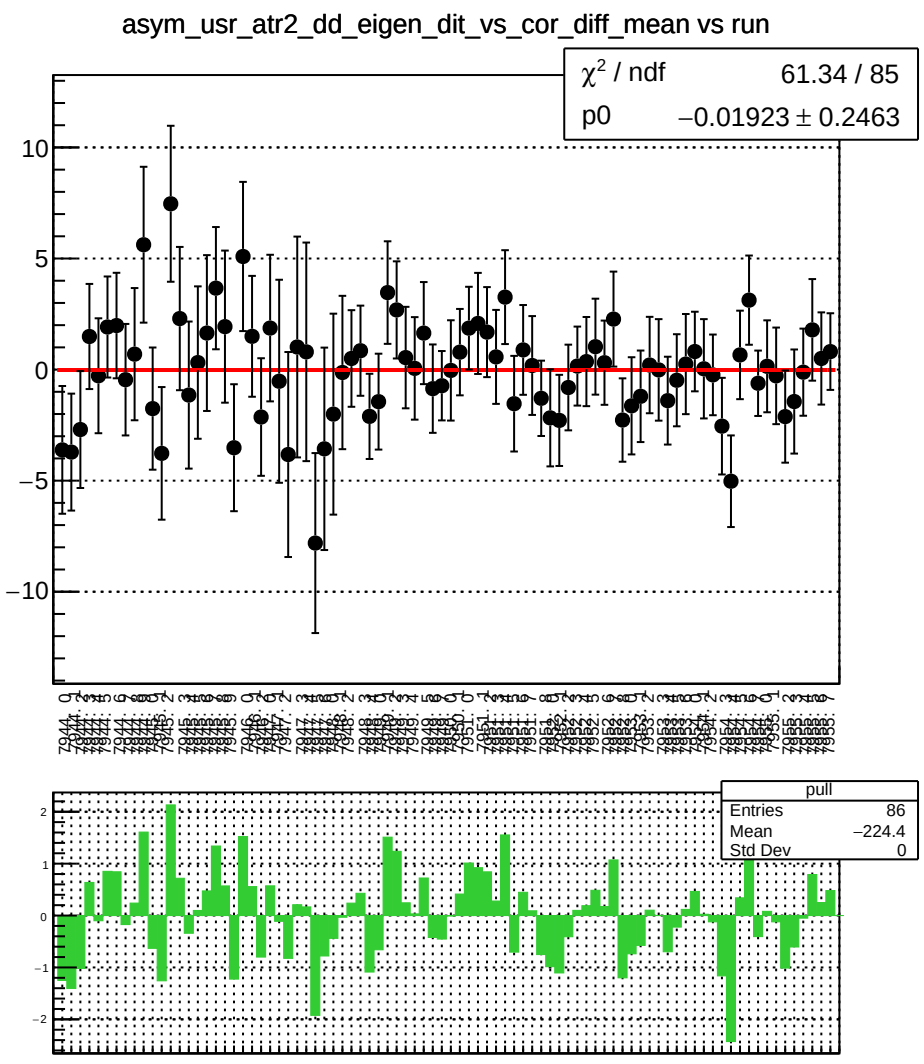

pull1D
Entries 86
Mean 0.006101
Std Dev 0.8446

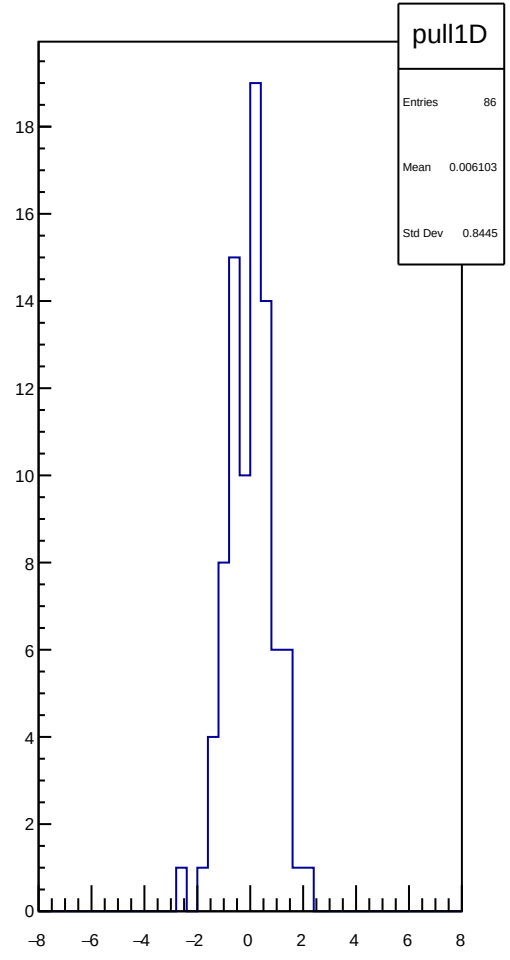

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.585e+04 / 85
p0 216.4 ± 0.1742
500
450
400
350
300
250
200
150

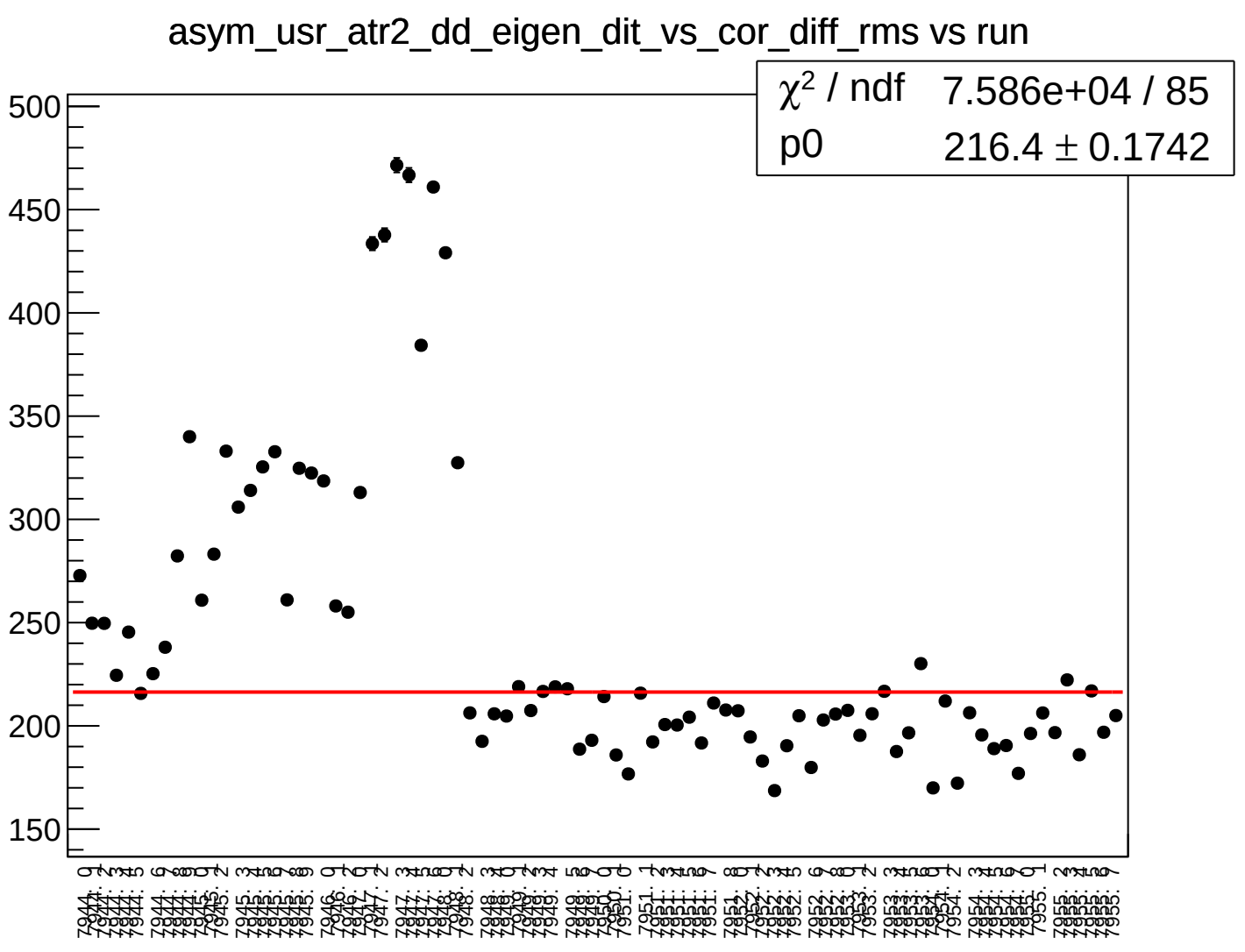

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.3 / 85
p0 8.052e−06 ± 1.984e−05
pull
Entries 86
Mean 194.2
Std Dev 0

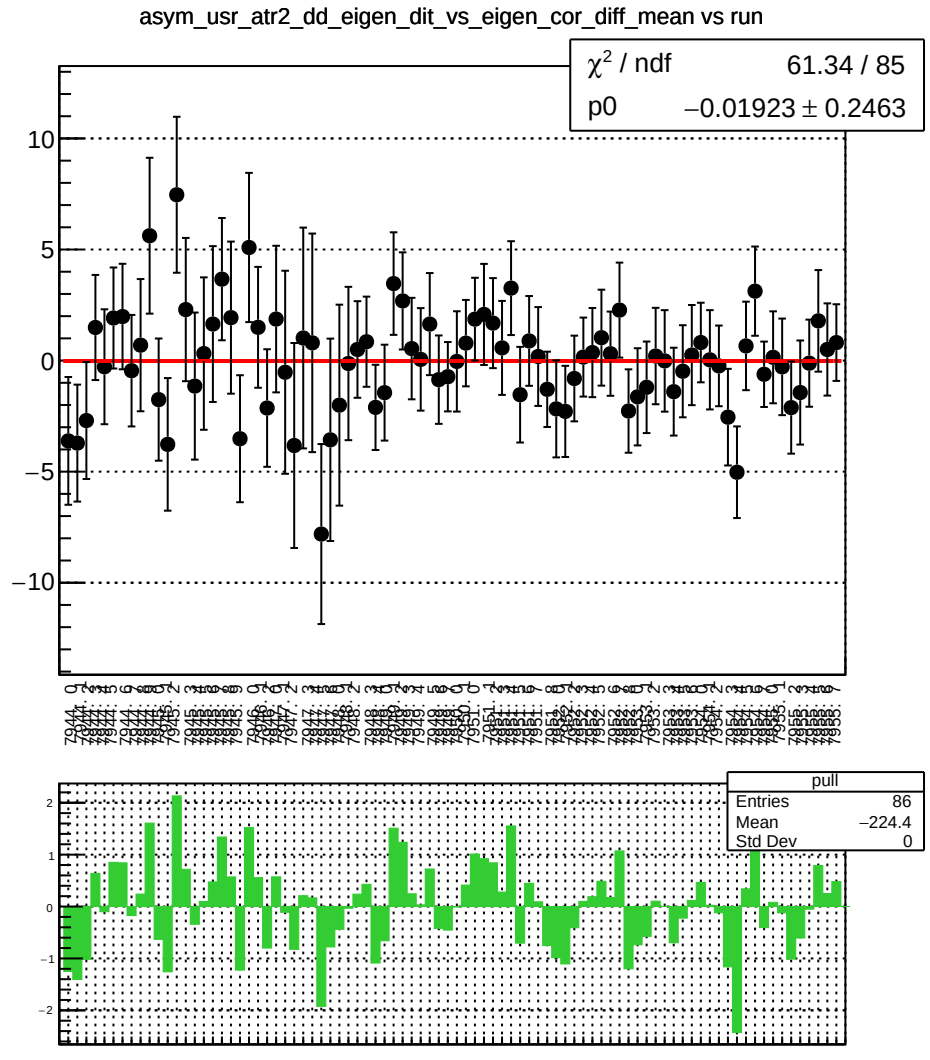

pull1D
Entries 86
Mean −0.001769
Std Dev 1.053

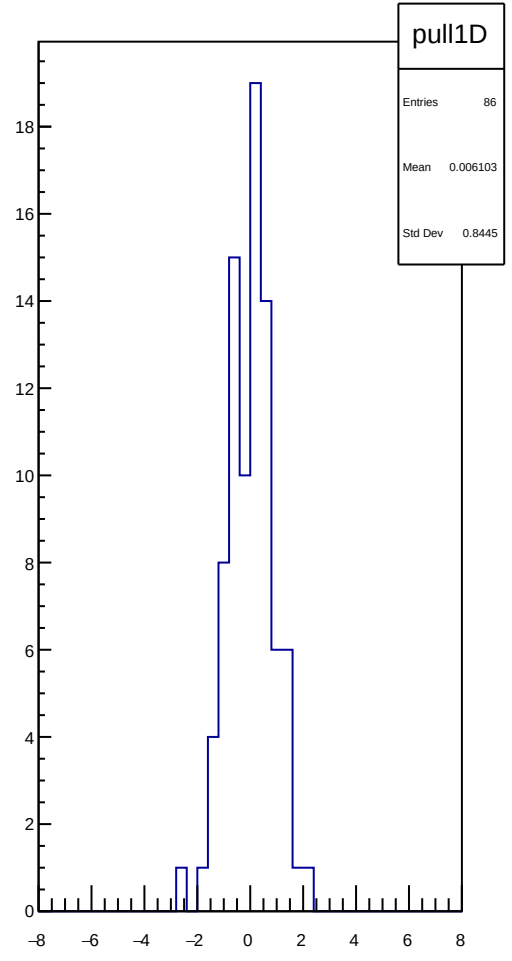

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1840 / 85
p0 0.01784 ± 1.403e−05
0.02
0.0195
0.019
0.0185
0.018
0.0175
0.017

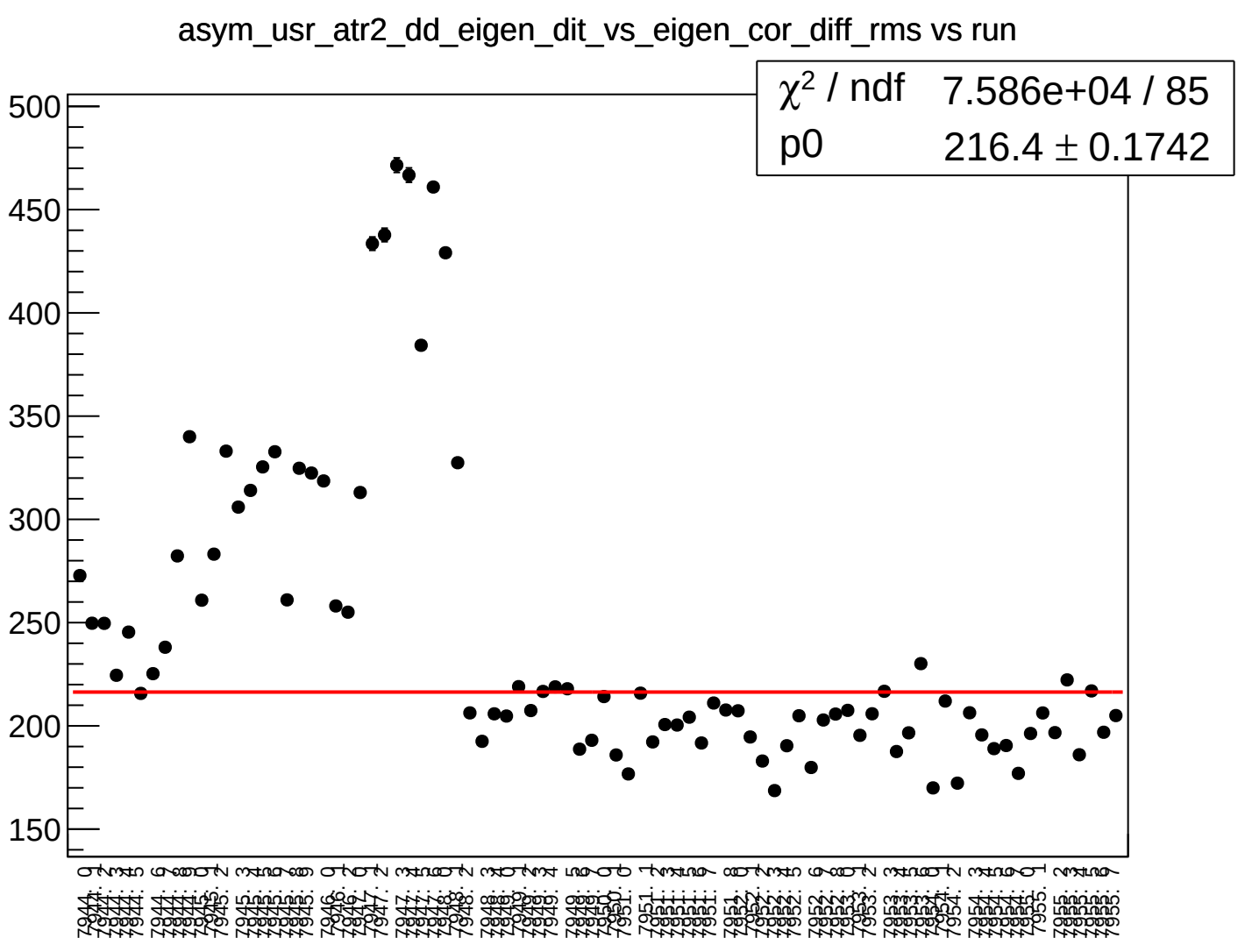

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.34 / 85
p0 −0.01923 ± 0.2463
pull
Entries 86
Mean −224.4
Std Dev 0

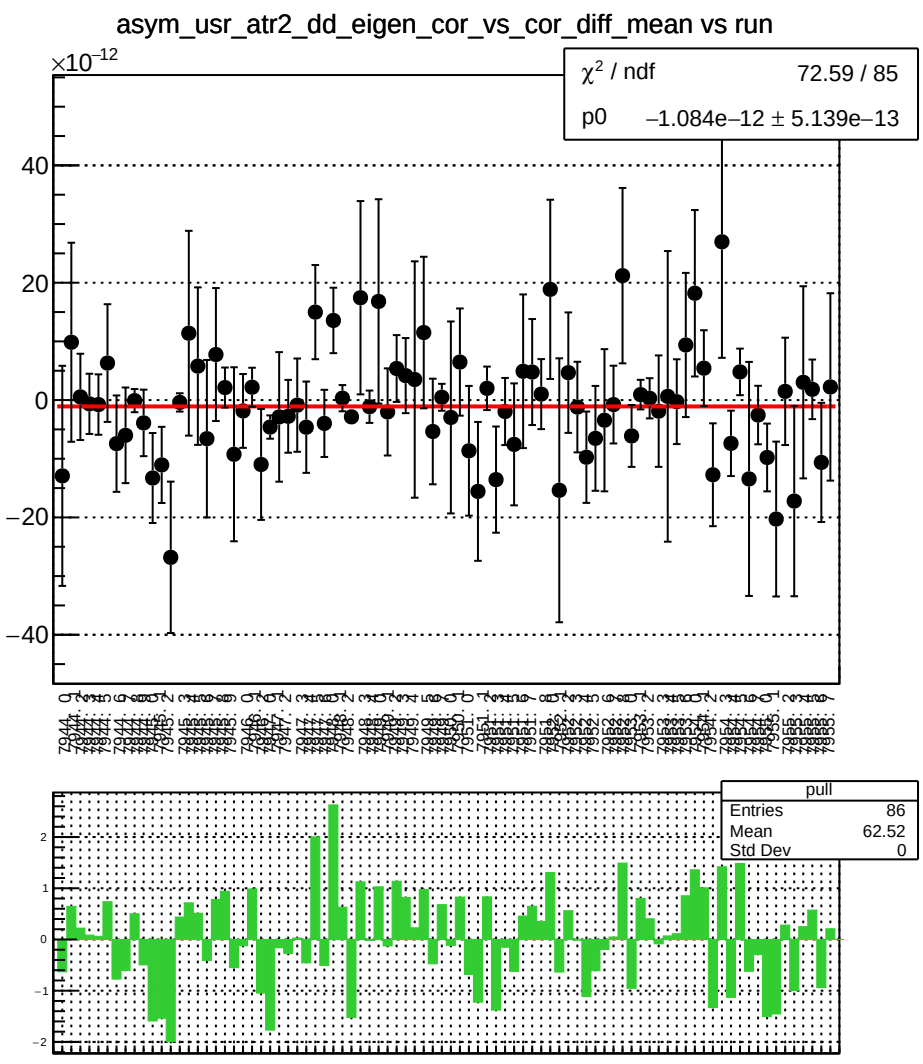

pull1D
Entries 86
Mean 0.006103
Std Dev 0.8445

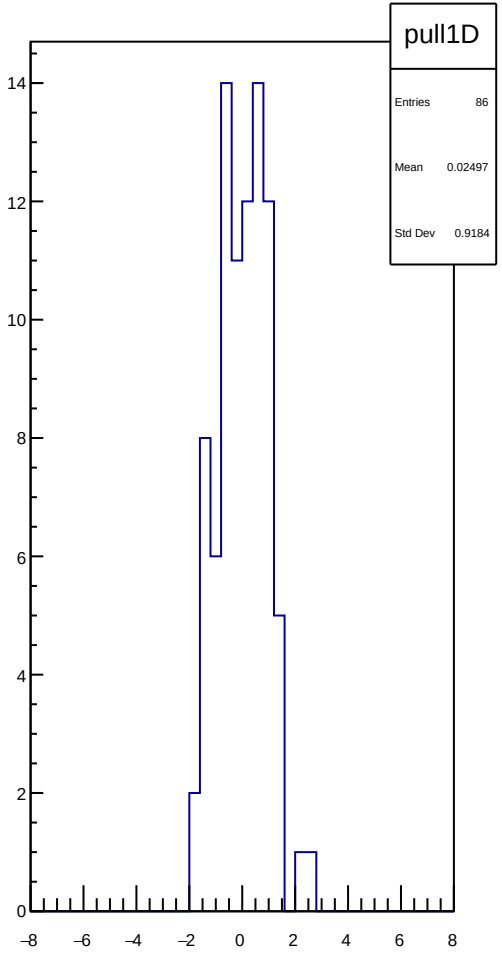

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.586e+04 / 85
p0 216.4 ± 0.1742
500
450
400
350
300
250
200
150

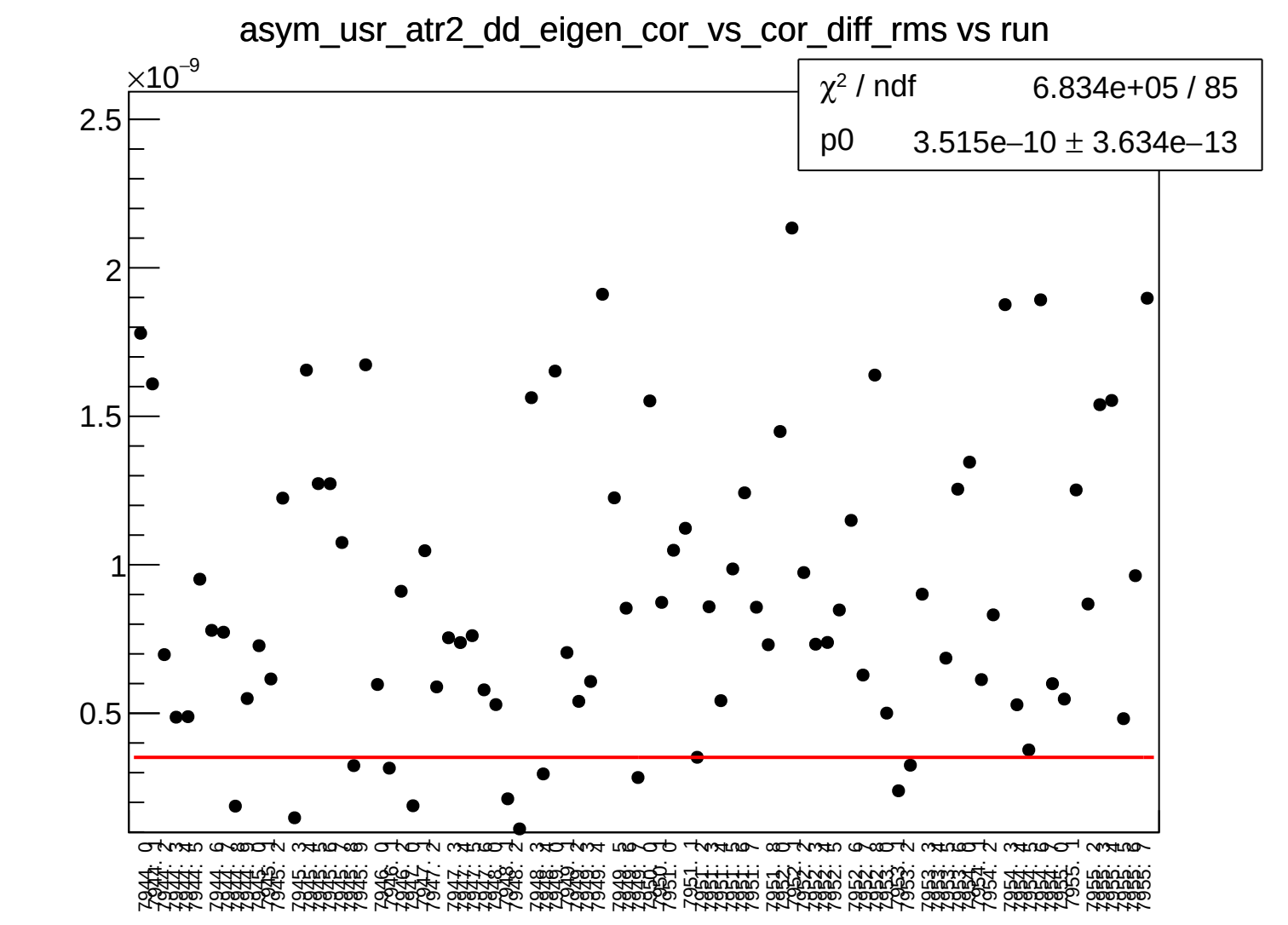

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.34 / 85
p0 −0.01923 ± 0.2463
pull
Entries 86
Mean −224.4
Std Dev 0

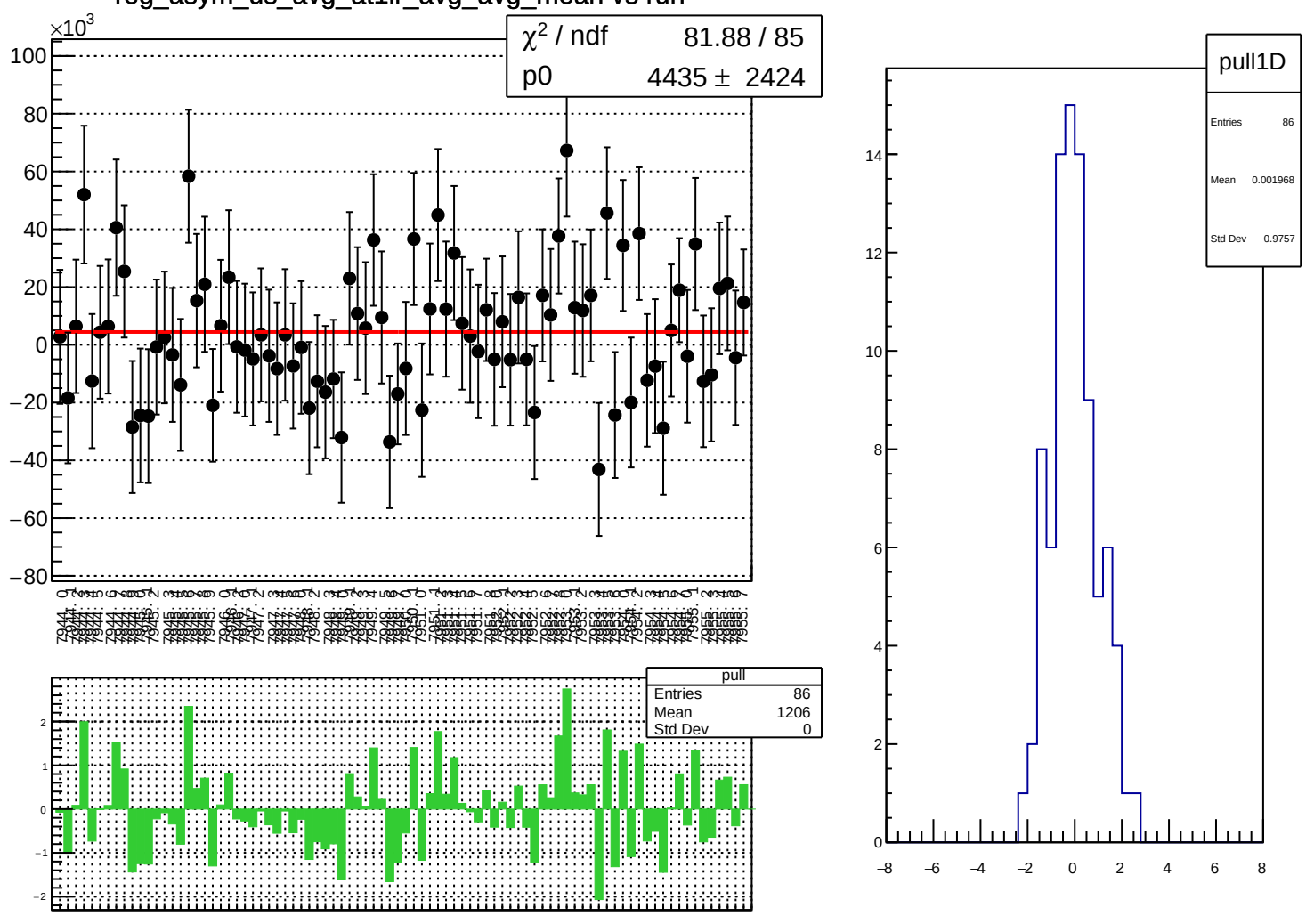

pull1D
Entries 86
Mean 0.006103
Std Dev 0.8445

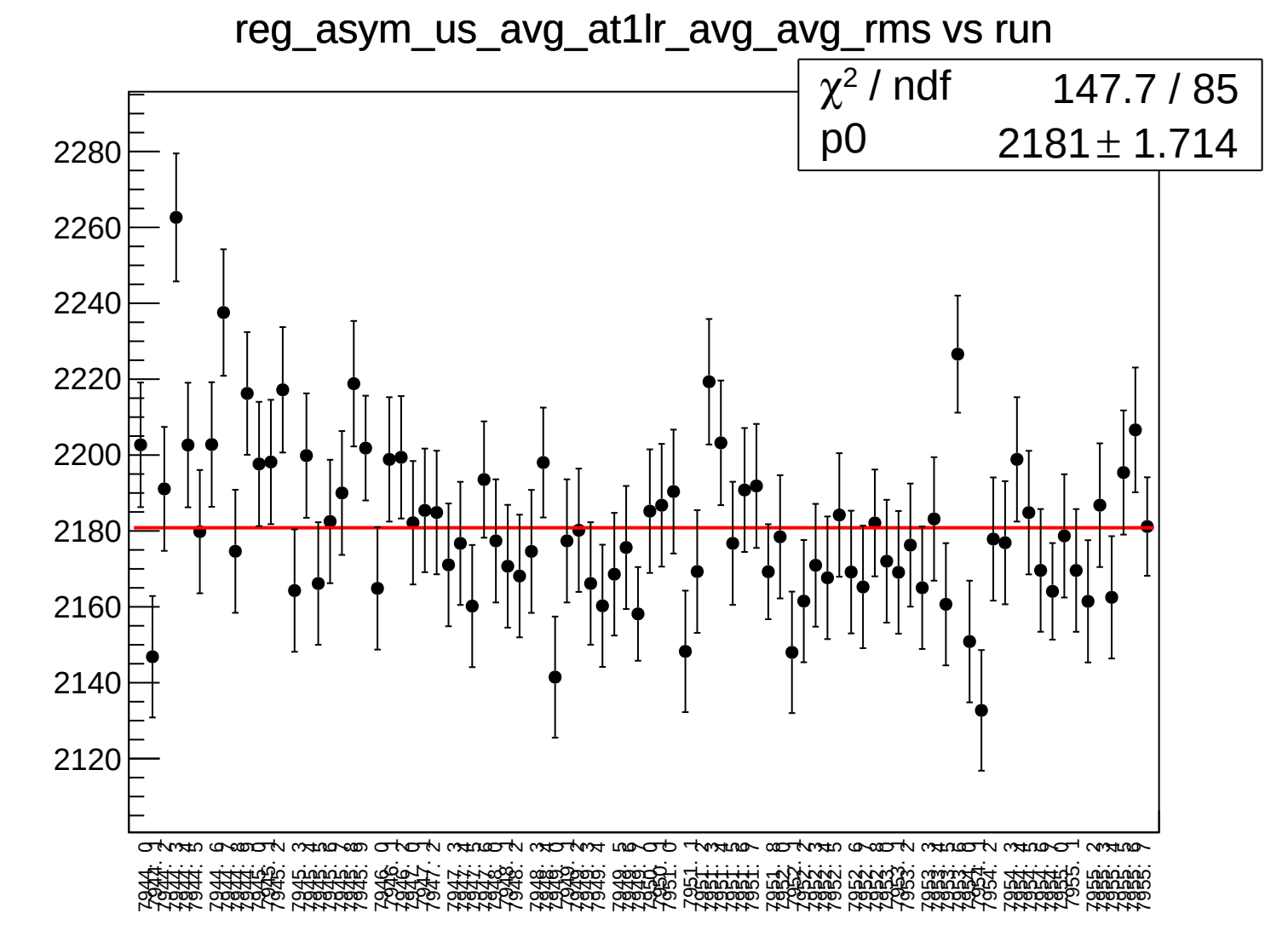

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.586e+04 / 85
p0 216.4 ± 0.1742
500
450
400
350
300
250
200
150

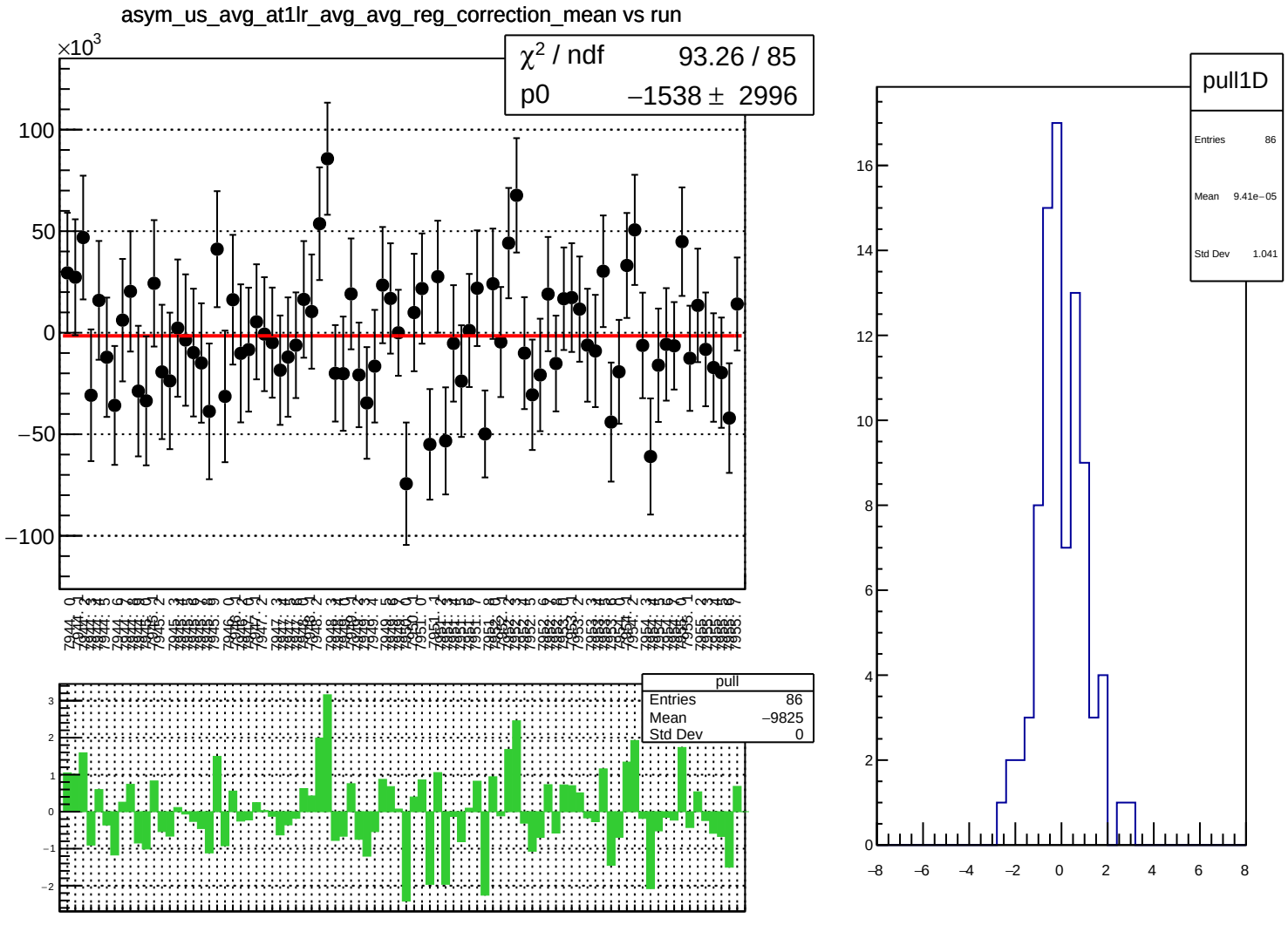

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.59 / 85
p0 −1.084e−12 ± 5.139e−13
40
20
0
−20
−40
pull
Entries 86
Mean 62.52
Std Dev 0
2
1
0
−1
−2

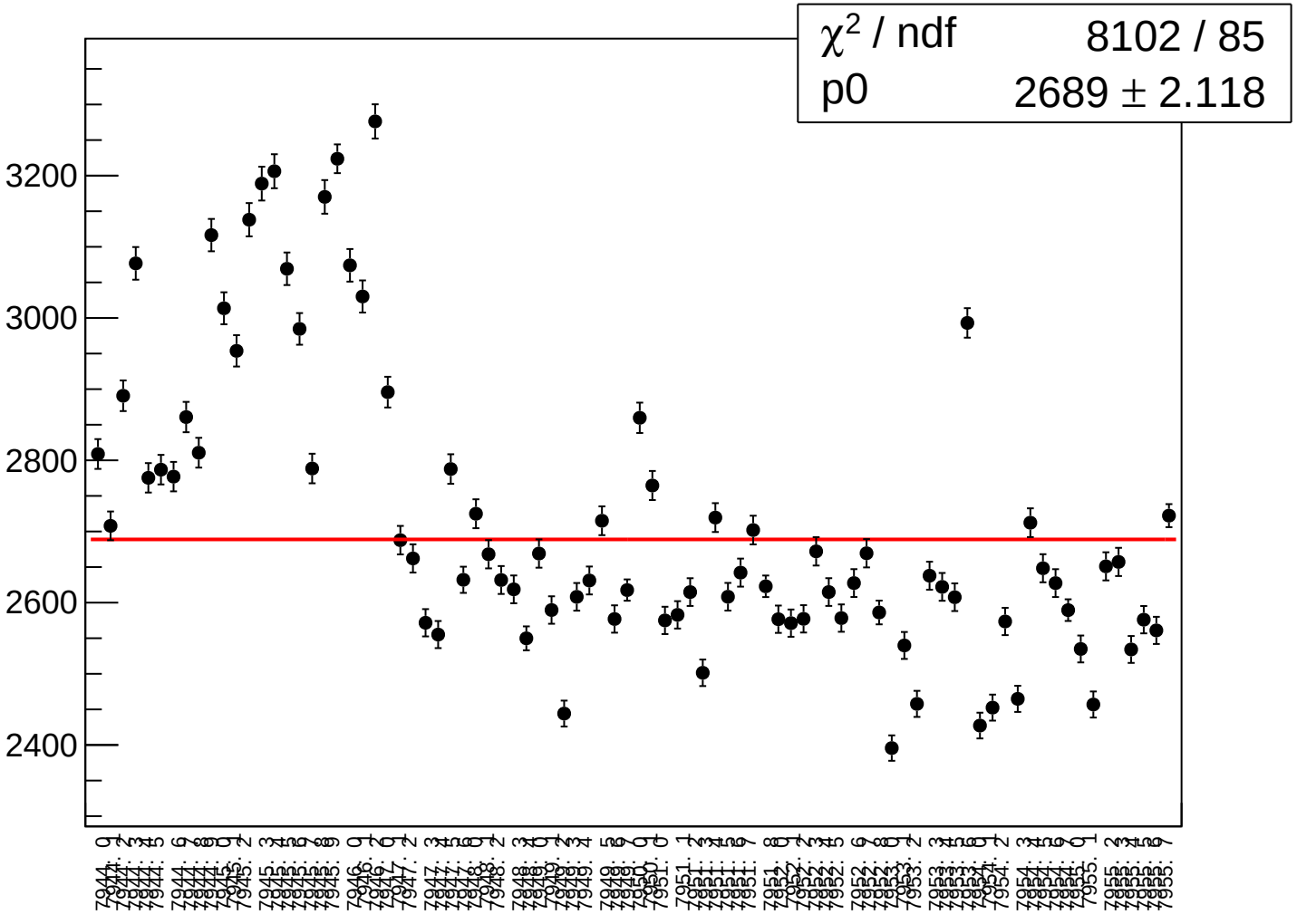

pull1D
Entries 86
Mean 0.02497
Std Dev 0.9184
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

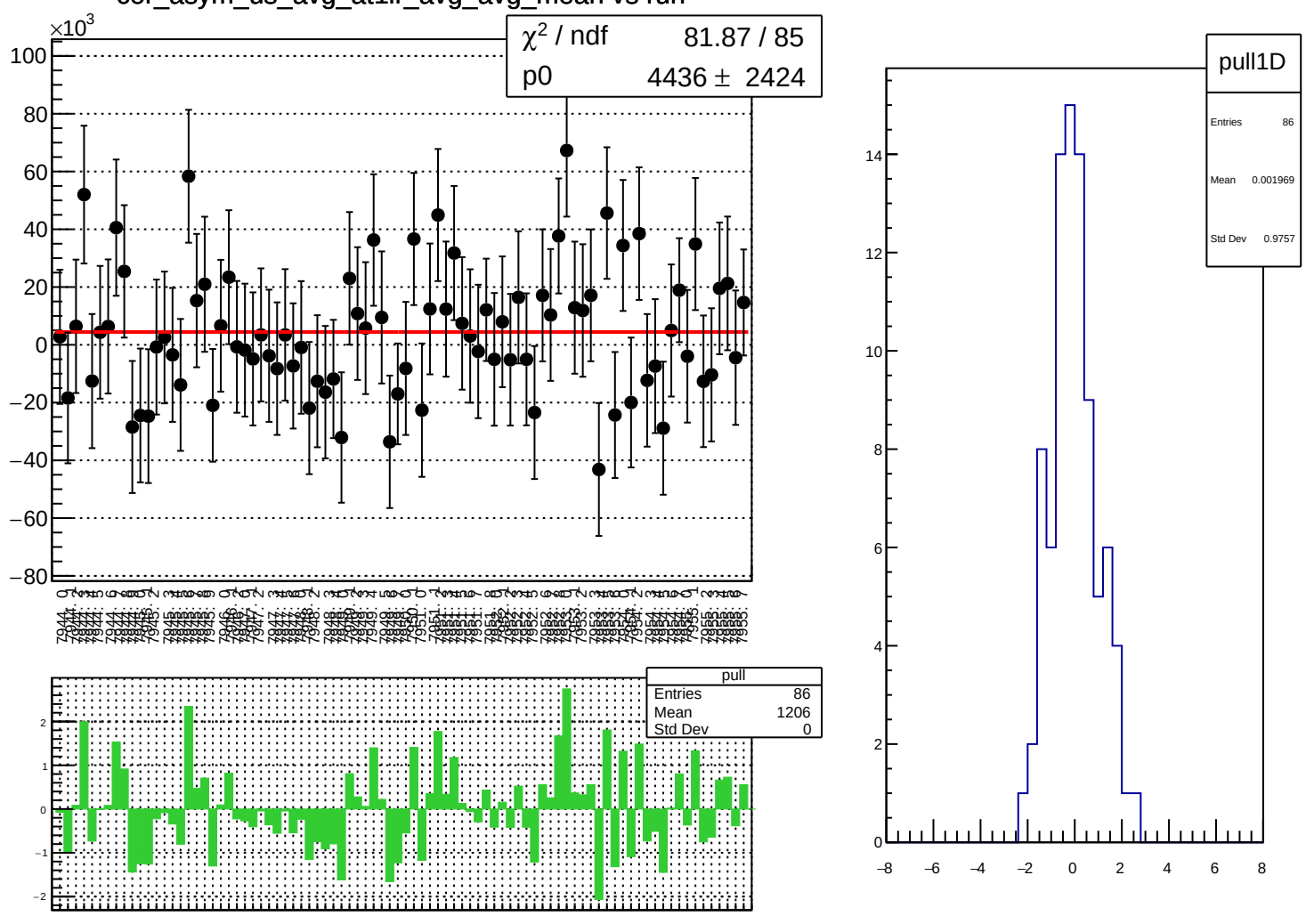

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.834e+05 / 85
p0 3.515e−10 ± 3.634e−13
2.5
2
1.5
1
0.5

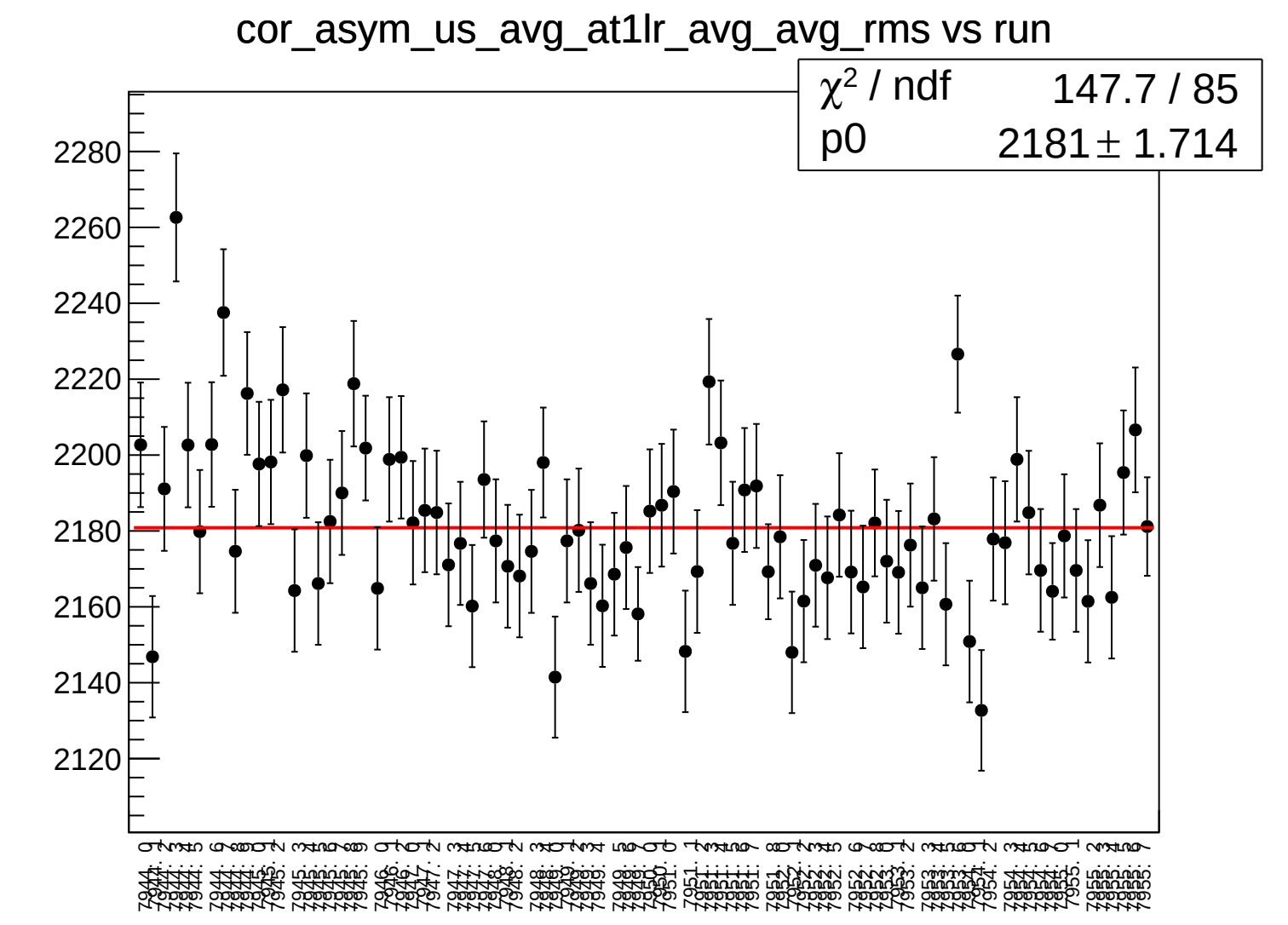

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 81.88 / 85
p0 4435 ± 2424
×10³
pull
Entries 86
Mean 1206
Std Dev 0
pull1D
Entries 86
Mean 0.001968
Std Dev 0.9757

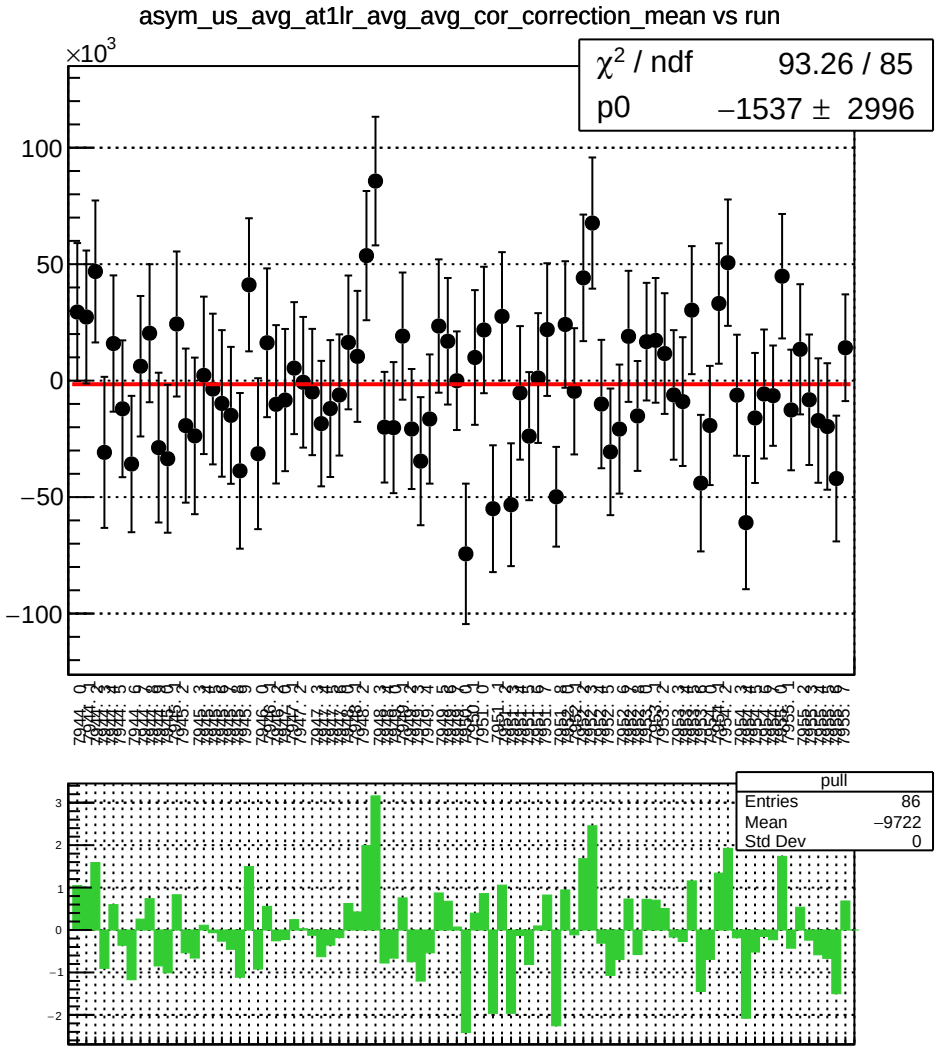

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 147.7 / 85
p0 2181 ± 1.714
2280
2260
2240
2220
2200
2180
2160
2140
2120

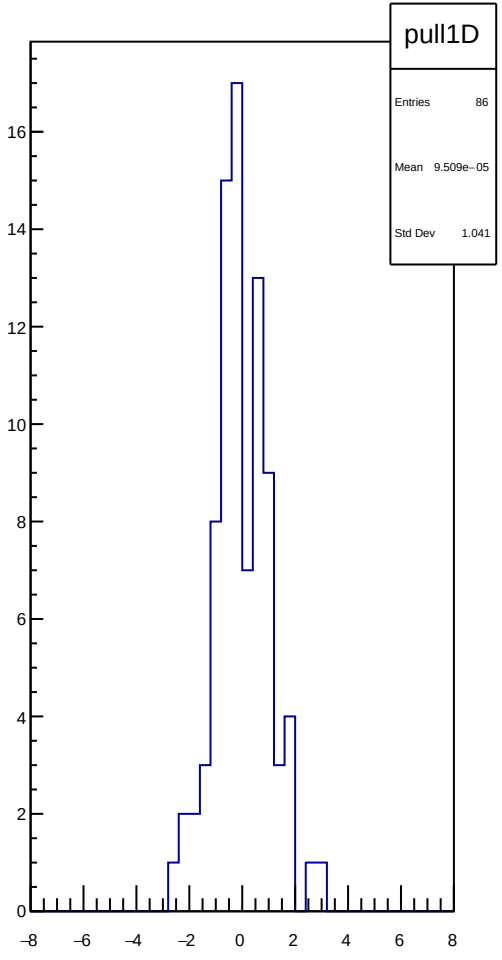

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 93.26 / 85
p0 −1538 ± 2996
100
50
0
−50
−100
pull
Entries 86
Mean −9825
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 9.41e−05
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 8102 / 85
p0 2689 ± 2.118
3200
3000
2800
2600
2400


cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 81.87 / 85
p0 4436 ± 2424
pull
Entries 86
Mean 1206
Std Dev 0
pull1D
Entries 86
Mean 0.001969
Std Dev 0.9757


cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 147.7 / 85
p0 2181 ± 1.714
2280
2260
2240
2220
2200
2180
2160
2140
2120


asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 93.26 / 85
p0 −1537 ± 2996
100
50
0
−50
−100
pull
Entries 86
Mean −9722
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 9.509e−05
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
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−4
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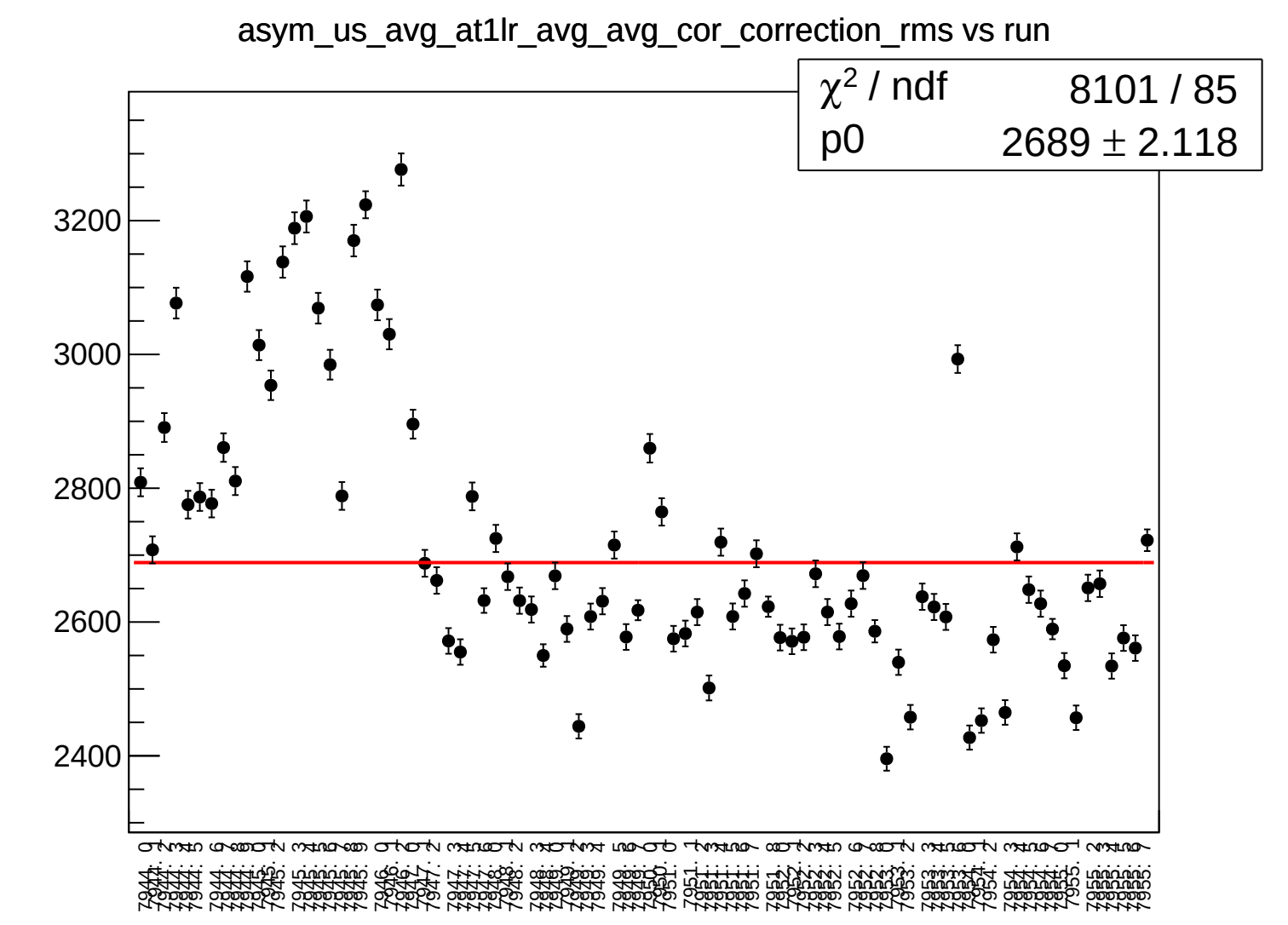
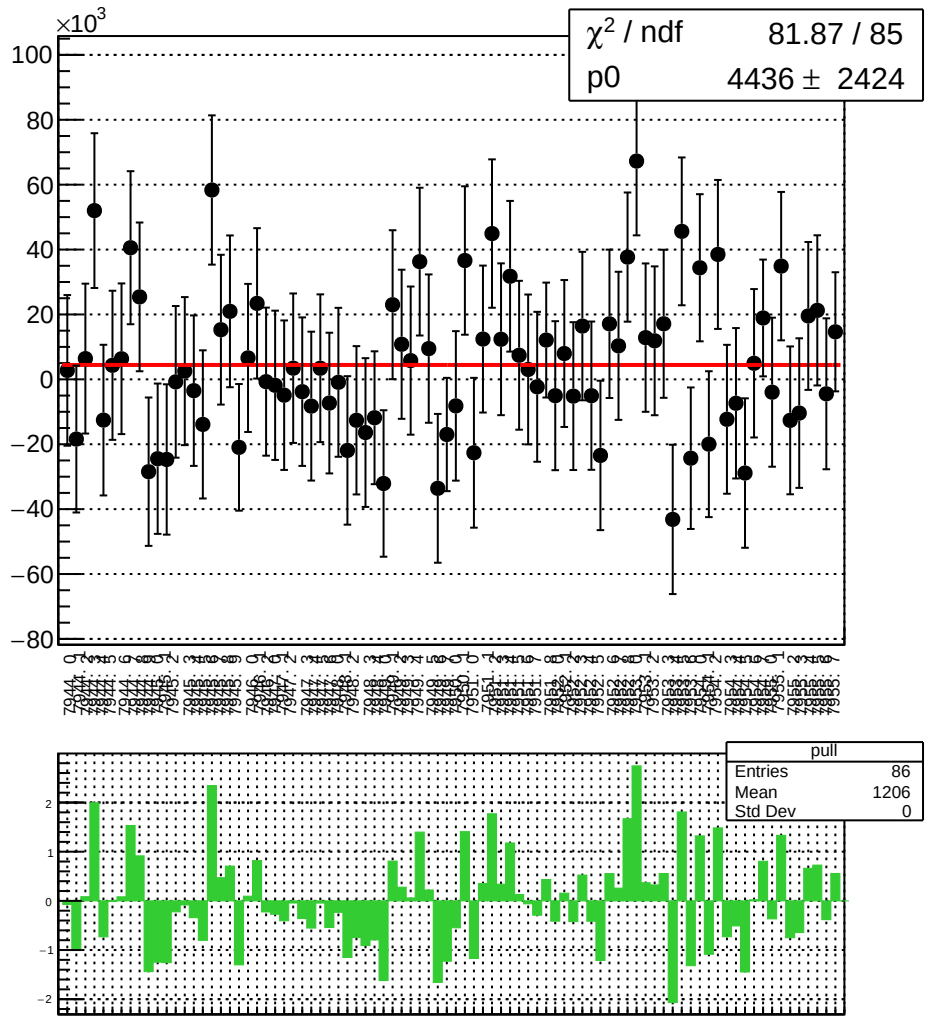
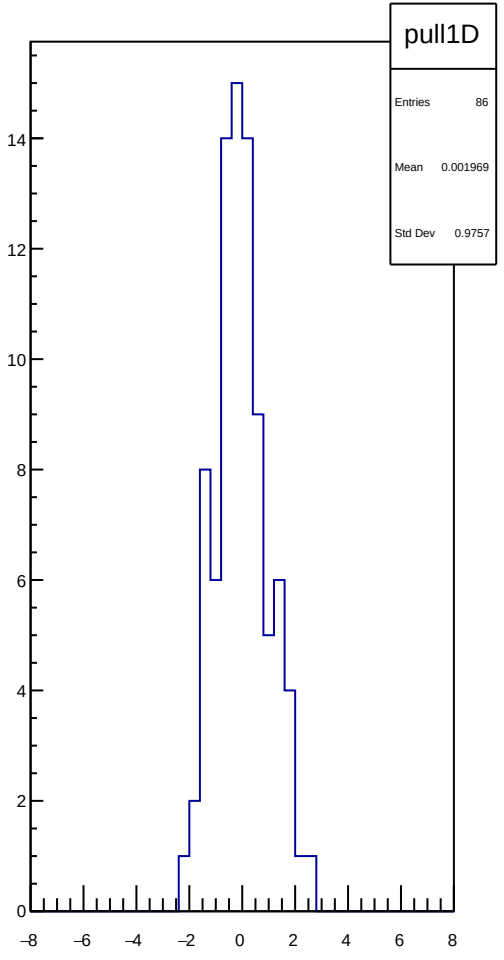
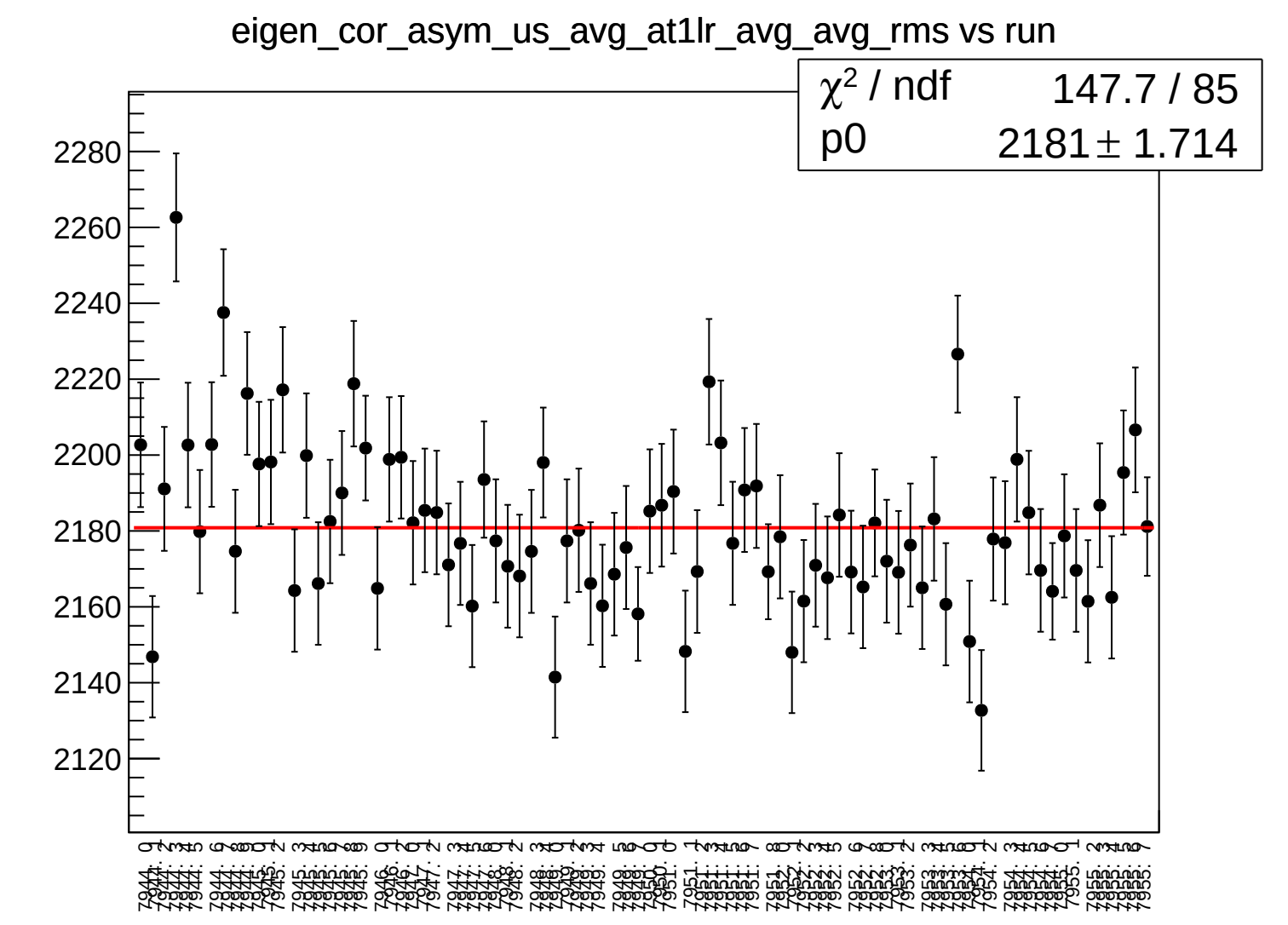
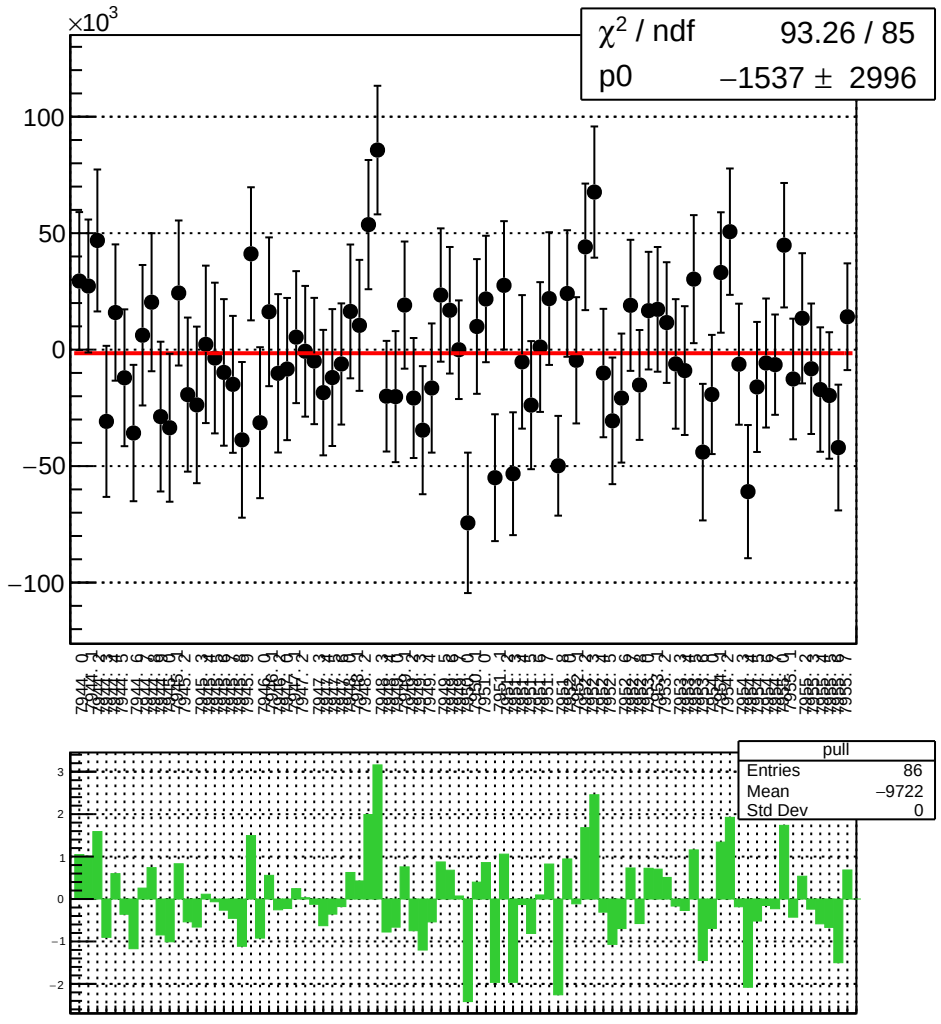
0
2
4
6
8

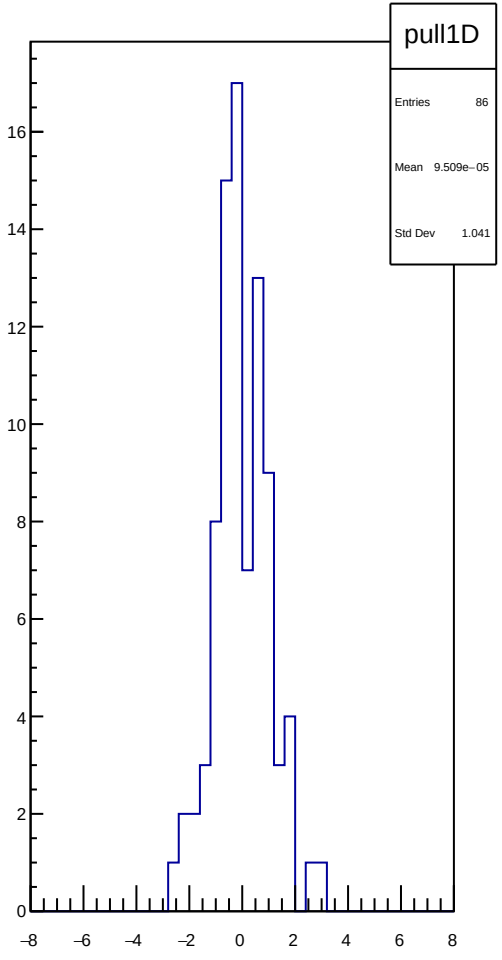

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 8101 / 85
p0 2689 ± 2.118
3200
3000
2800
2600
2400

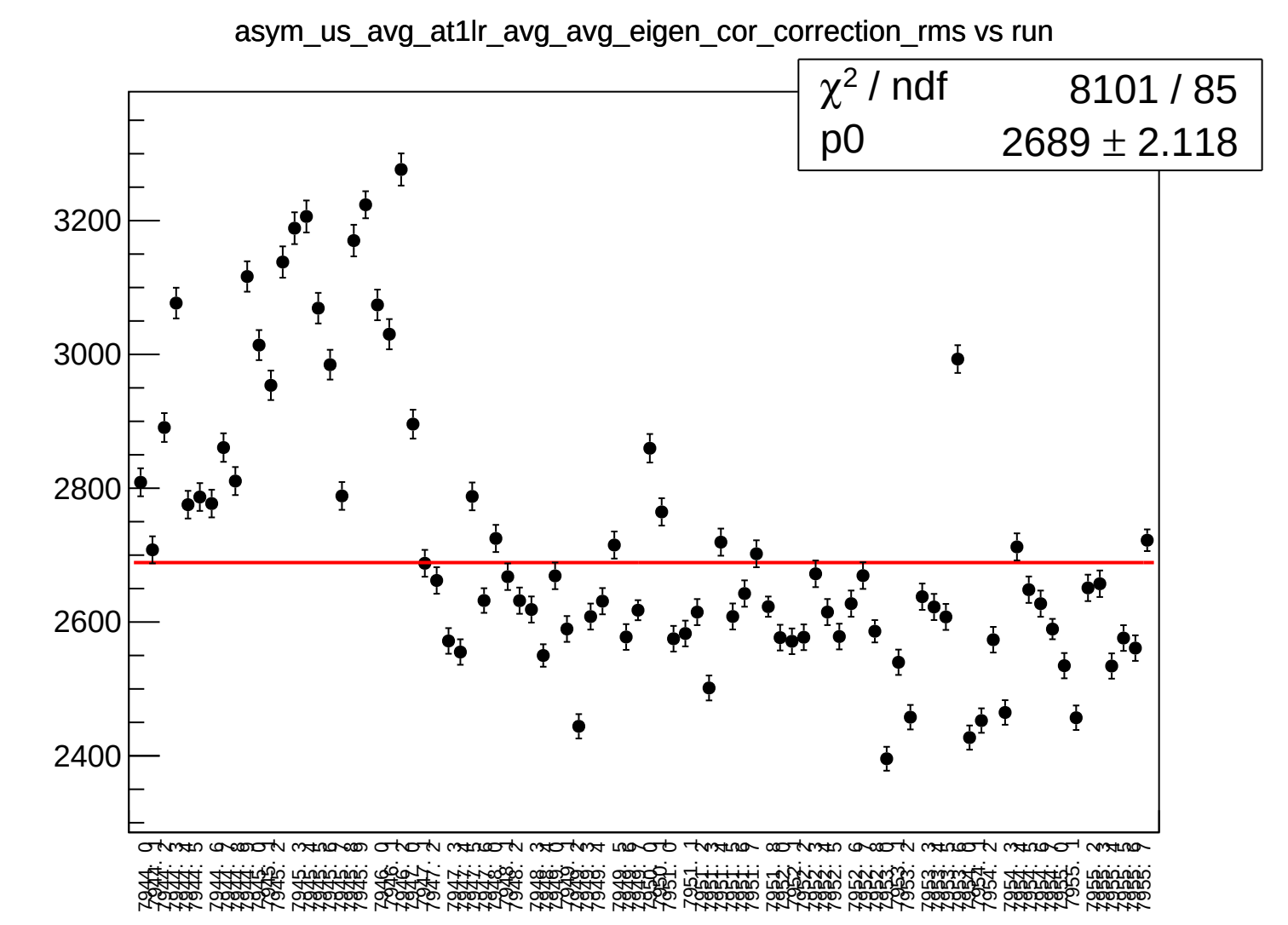

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 81.87 / 85
p0 4436 ± 2424
pull
Entries 86
Mean 1206
Std Dev 0

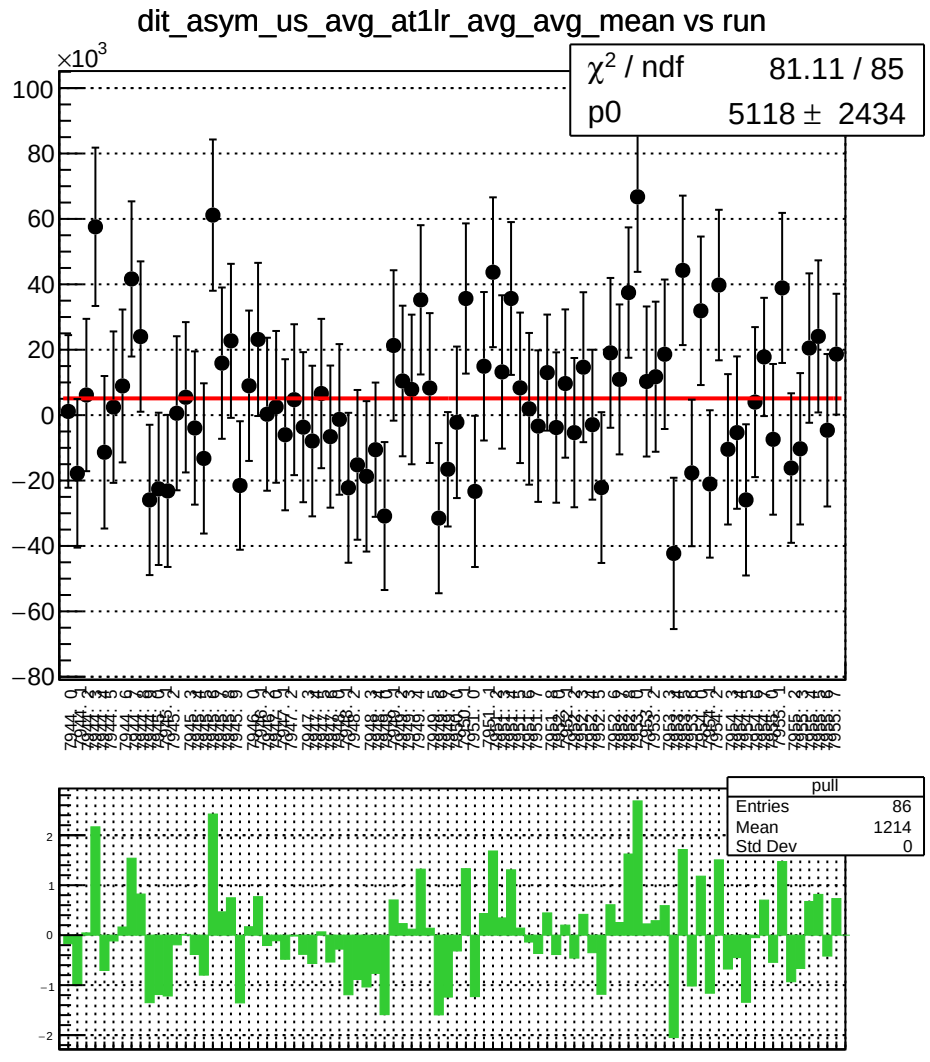

pull1D
Entries 86
Mean 0.001969
Std Dev 0.9757

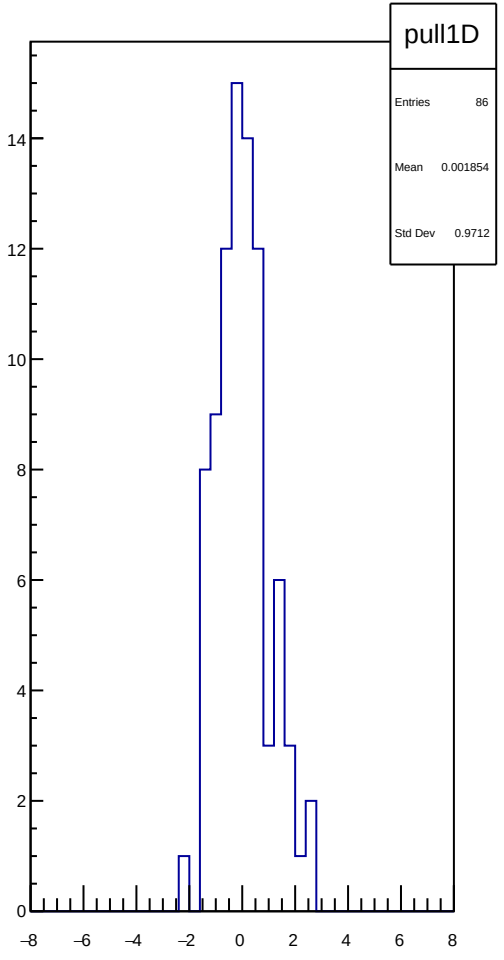

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 147.7 / 85
p0 2181 ± 1.714
2280
2260
2240
2220
2200
2180
2160
2140
2120

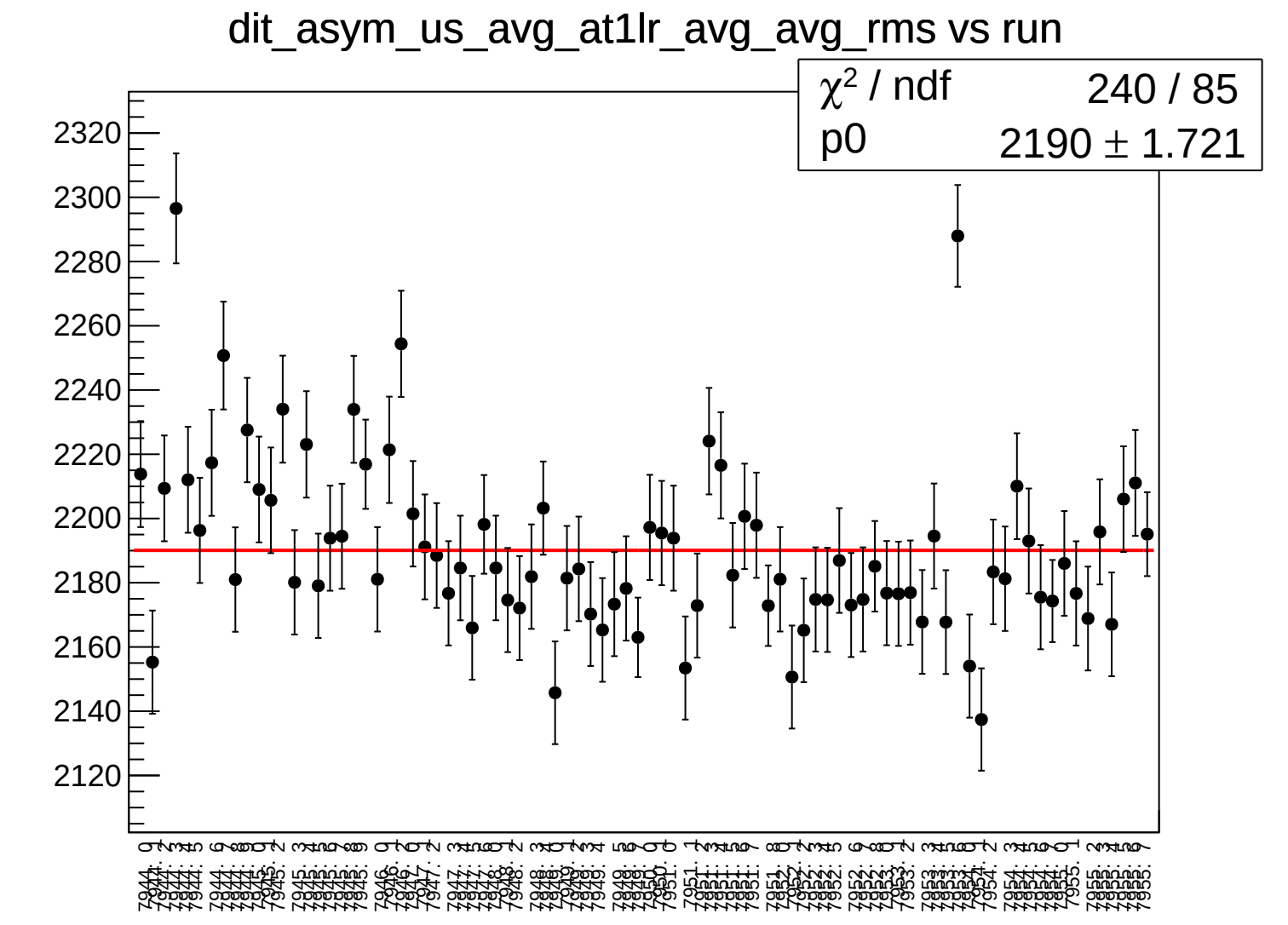

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 93.26 / 85
p0 −1537 ± 2996
100
50
0
−50
−100
pull
Entries 86
Mean −9722
Std Dev 0
3
2
1
0
−1
−2

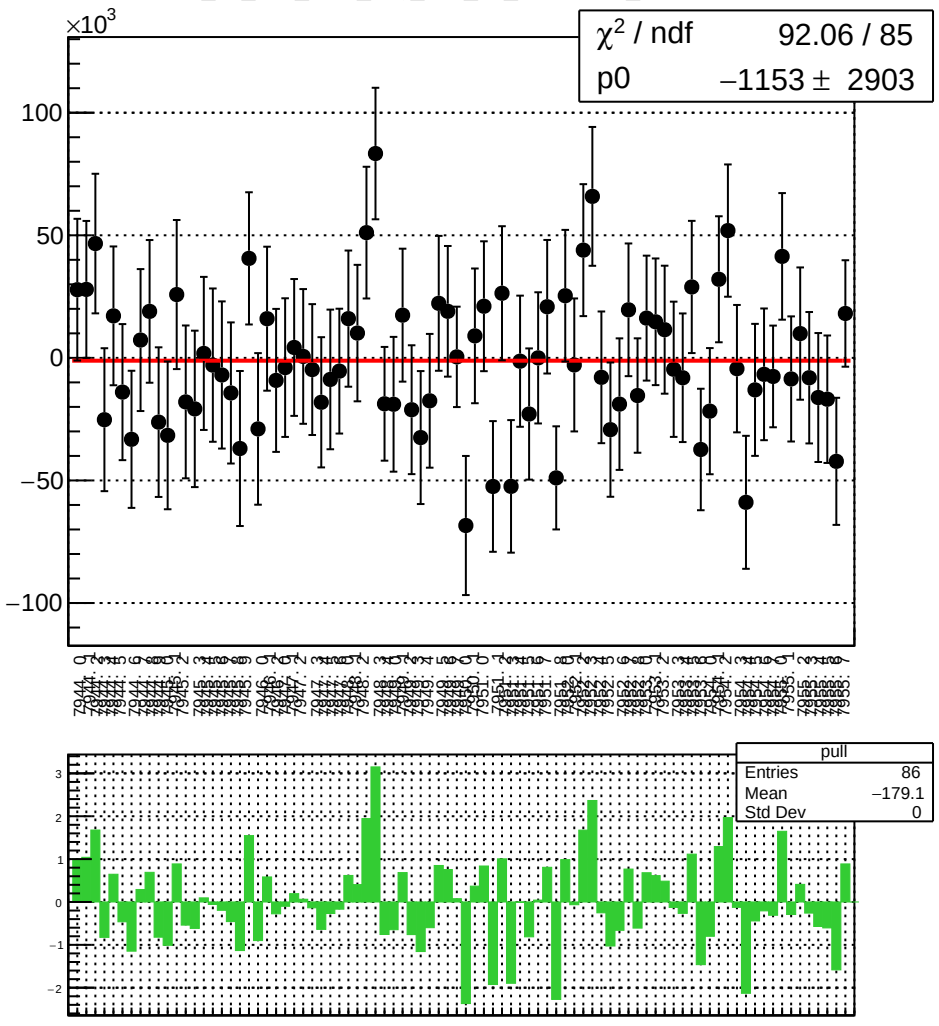

pull1D
Entries 86
Mean 9.509e−05
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

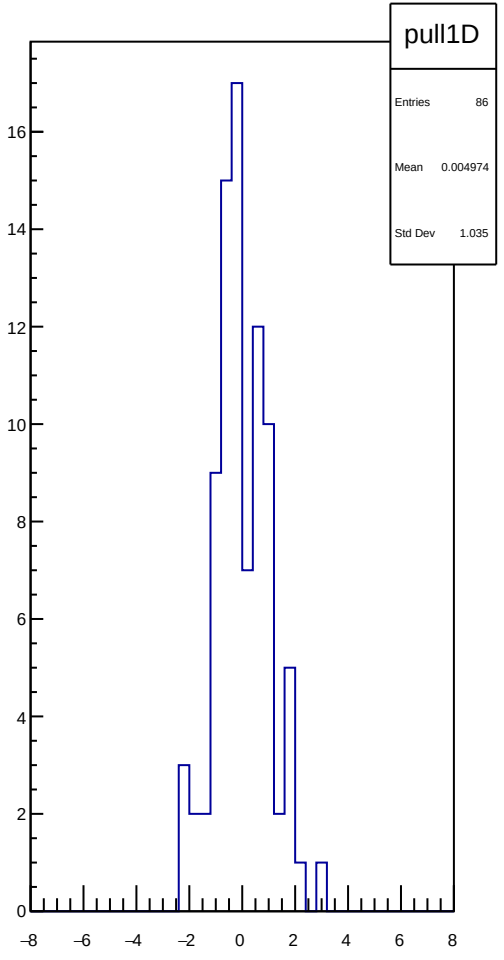

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 8101 / 85
p0 2689 ± 2.118
3200
3000
2800
2600
2400

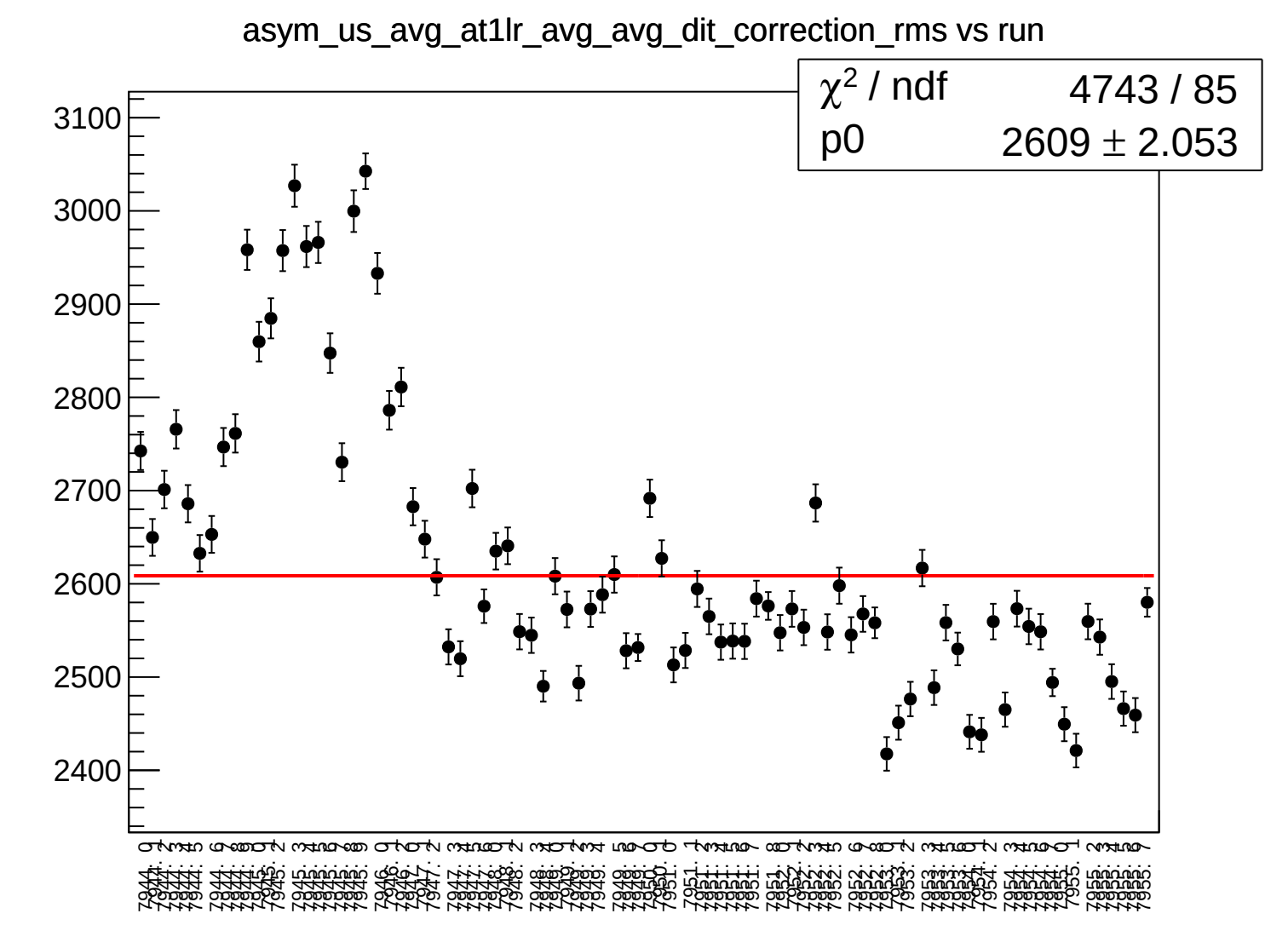

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 81.11 / 85
p0 5118 ± 2434
pull
Entries 86
Mean 1214
Std Dev 0

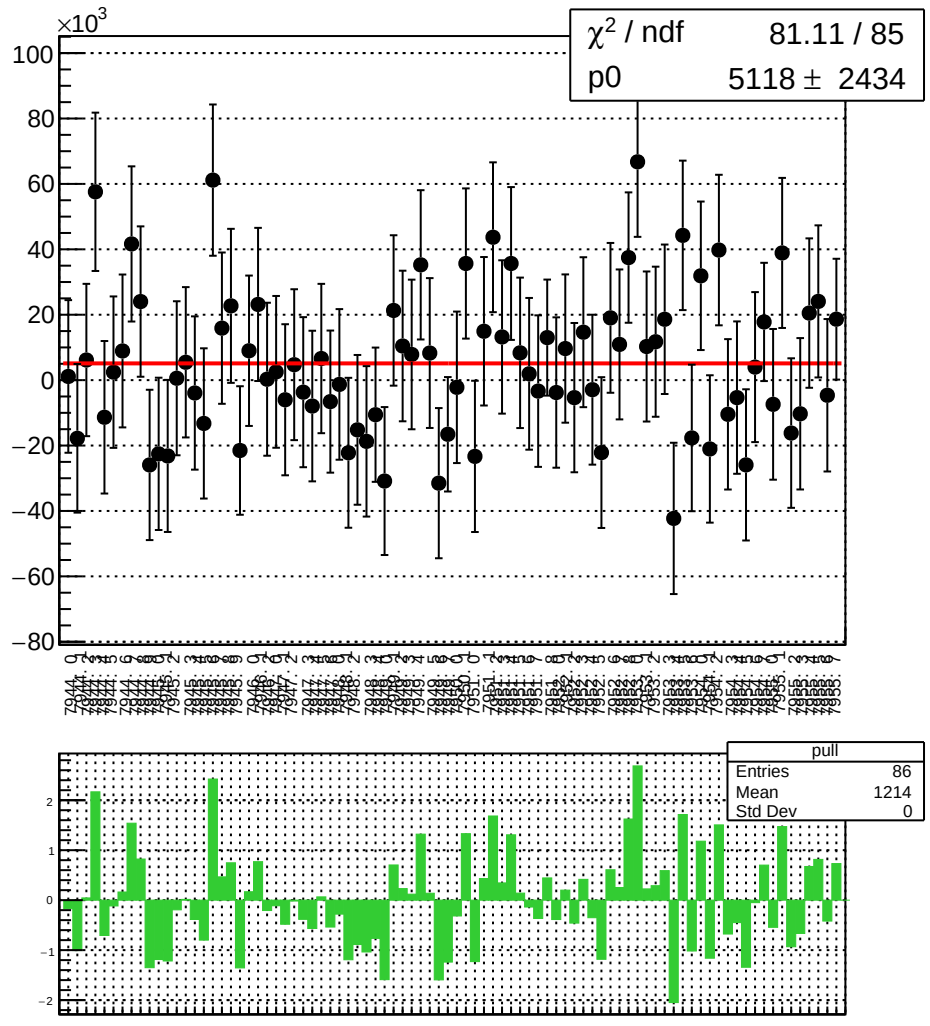

pull1D
Entries 86
Mean 0.001854
Std Dev 0.9712

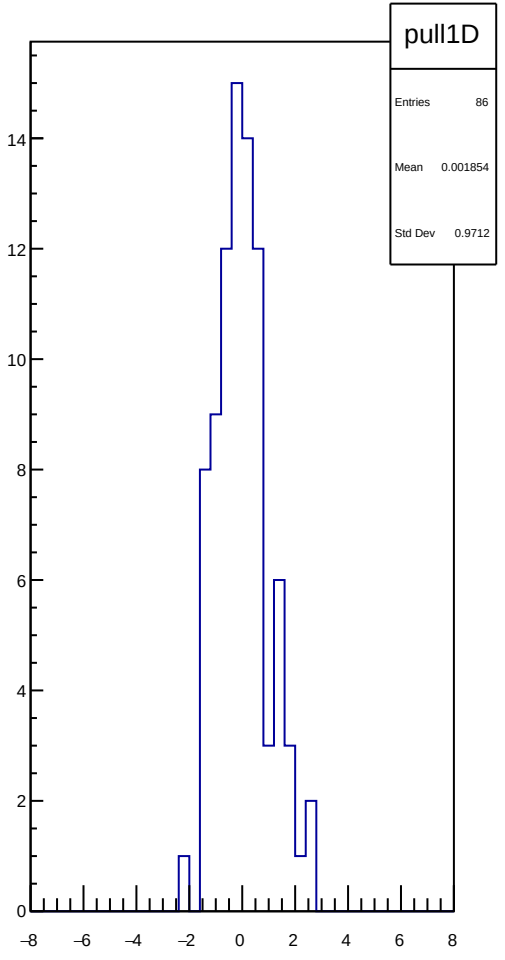

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 240 / 85
p0 2190 ± 1.721
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

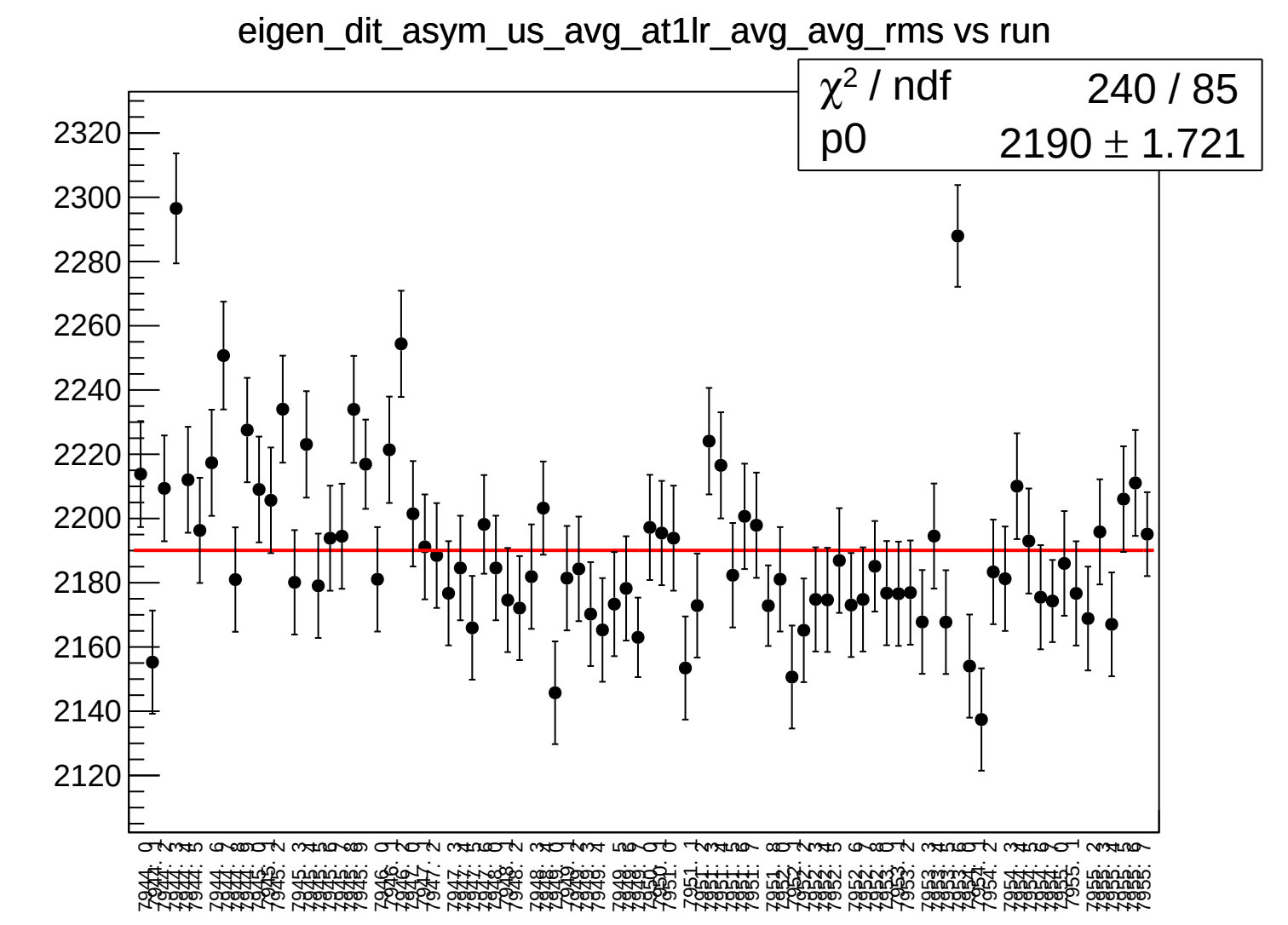

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 92.06 / 85
p0 −1153 ± 2903
100
50
0
−50
−100
pull
Entries 86
Mean −179.1
Std Dev 0
3
2
1
0
−1
−2

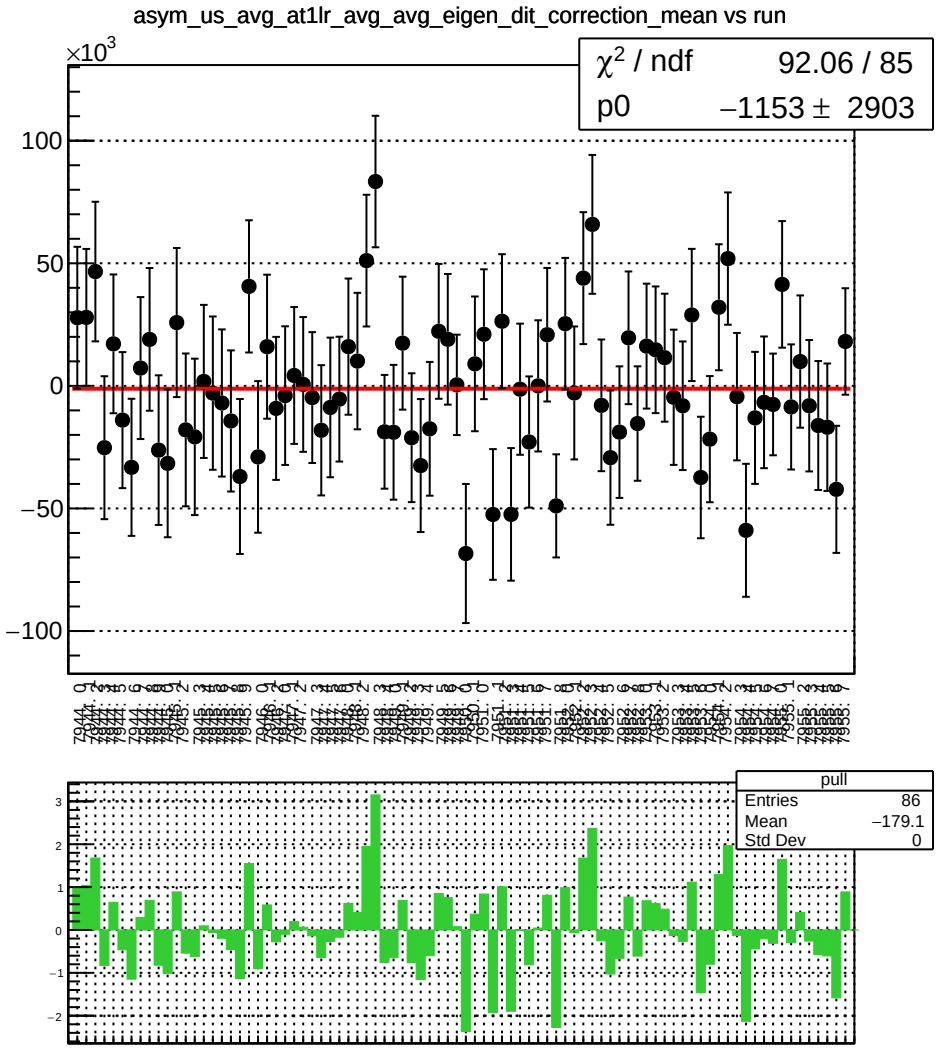

pull1D
Entries 86
Mean 0.004974
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

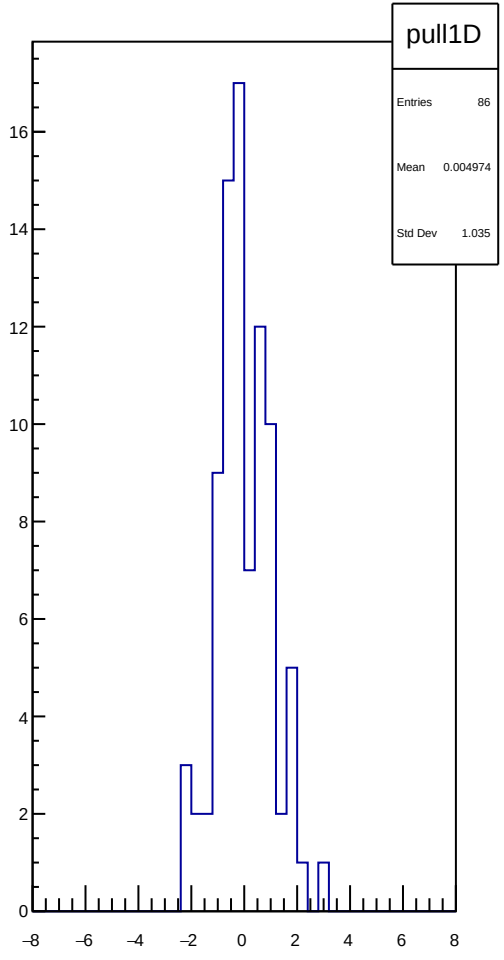

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 4743 / 85
p0 2609 ± 2.053
3100
3000
2900
2800
2700
2600
2500
2400

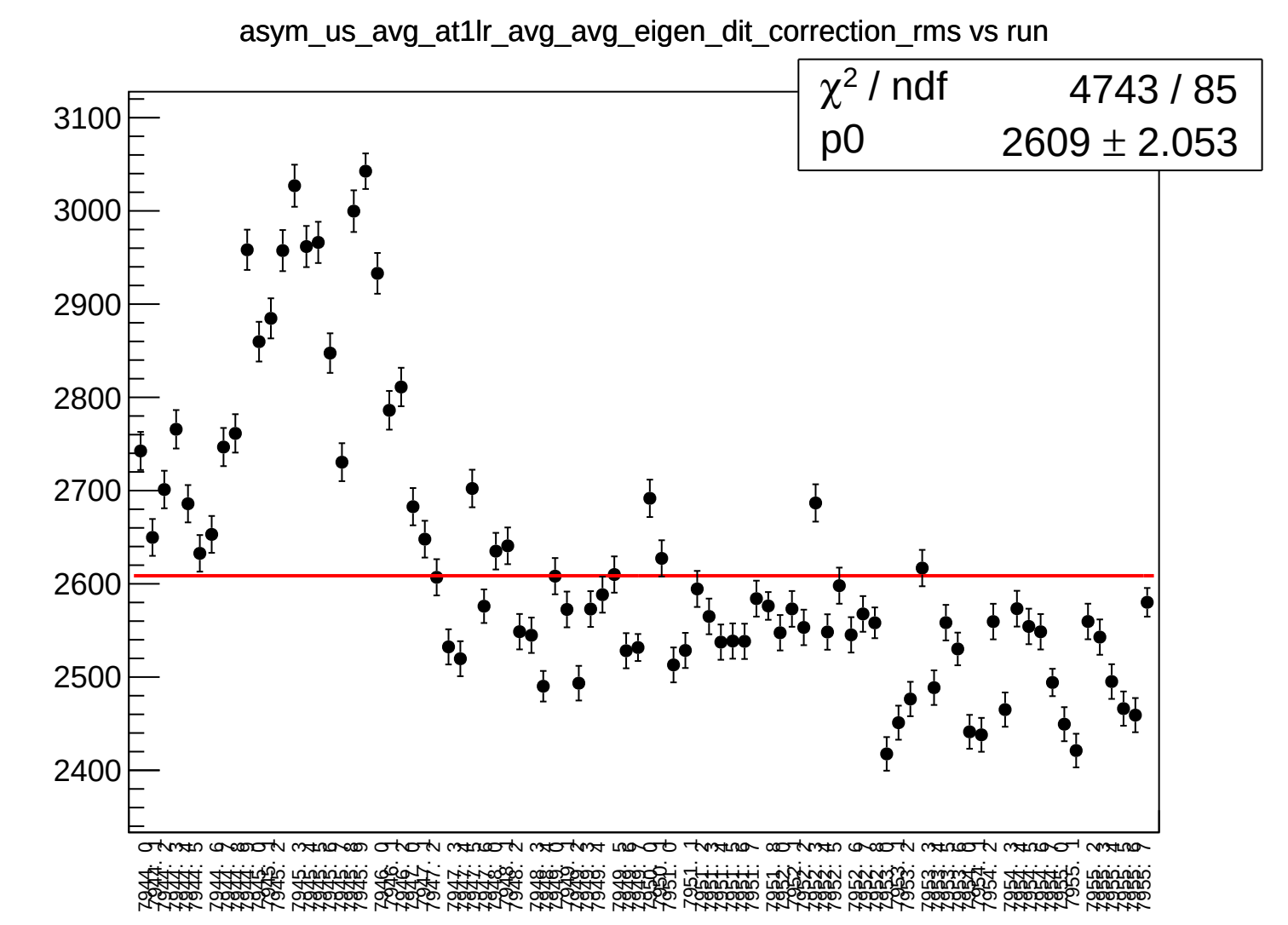

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 81.11 / 85
p0 5118 ± 2434
pull
Entries 86
Mean 1214
Std Dev 0

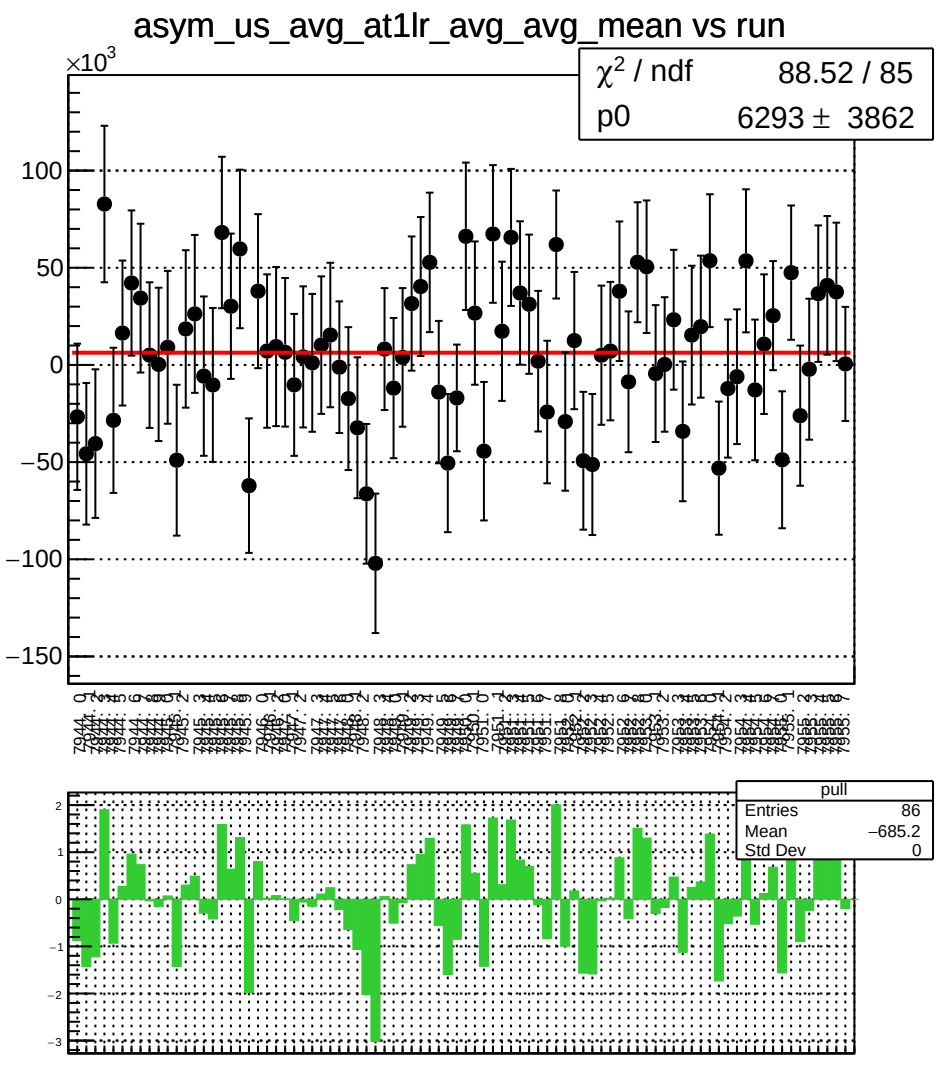

pull1D
Entries 86
Mean 0.001854
Std Dev 0.9712

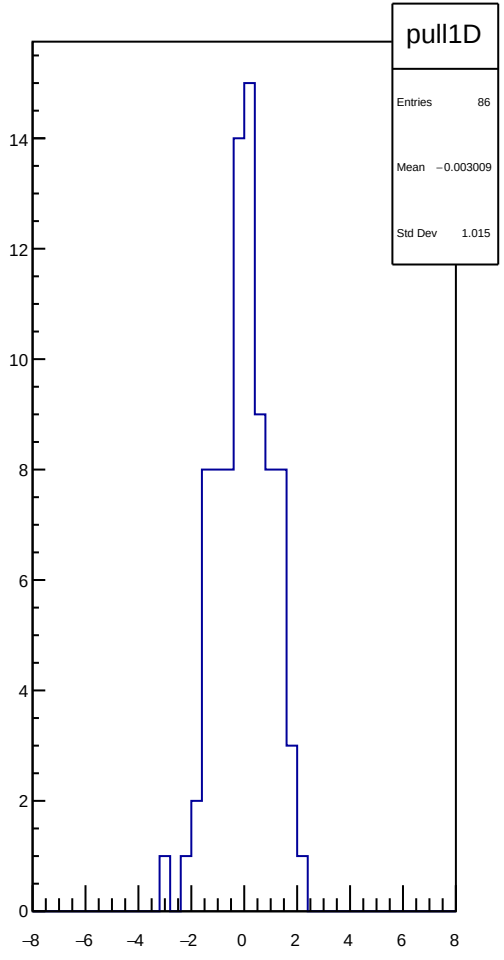

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 240 / 85
p0 2190 ± 1.721
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

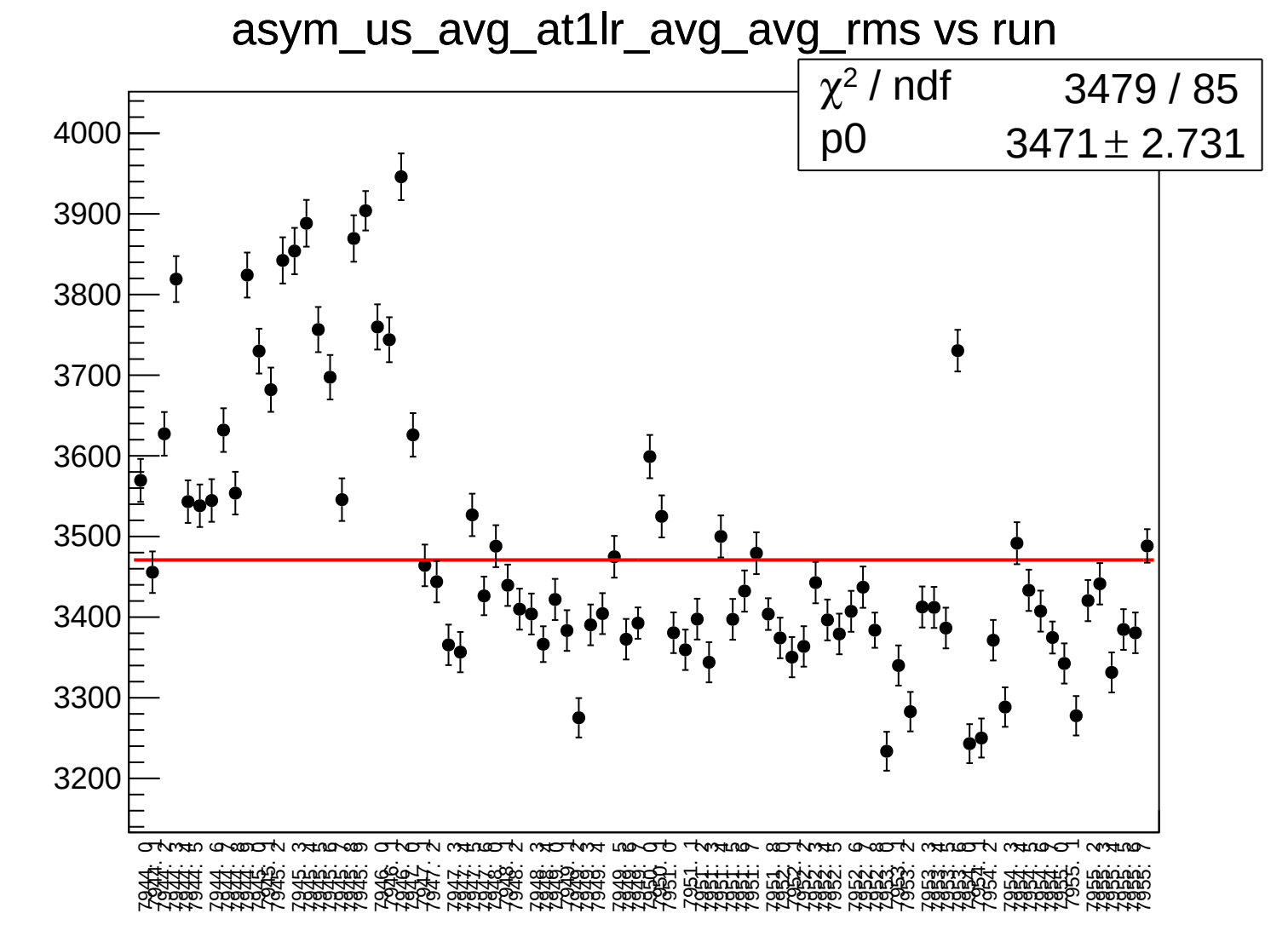

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.06 / 85
p0 −1153 ± 2903
100
50
0
−50
−100
pull
Entries 86
Mean −179.1
Std Dev 0
3
2
1
0
−1
−2

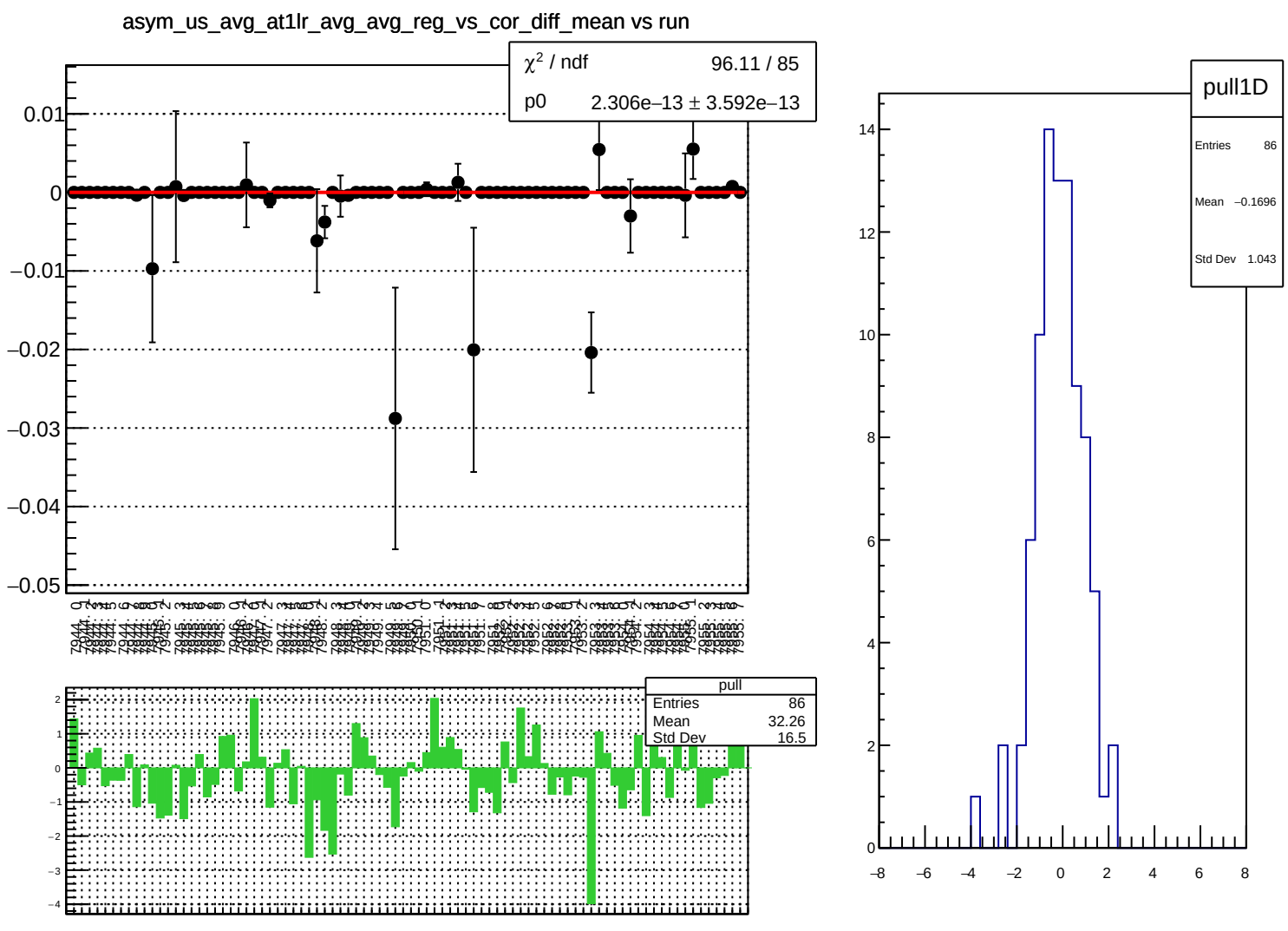

pull1D
Entries 86
Mean 0.004974
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

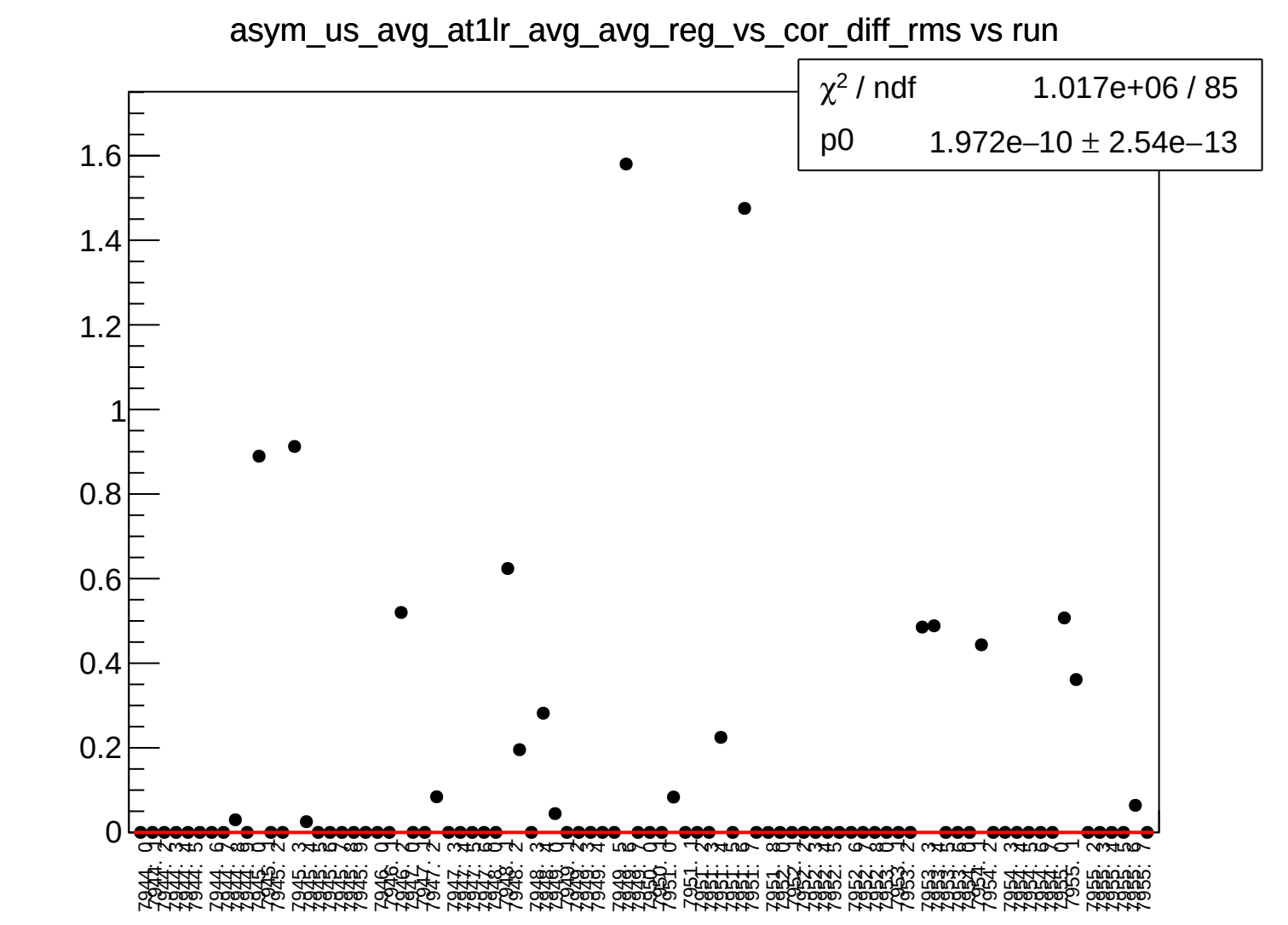

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4743 / 85
p0 2609 ± 2.053
3100
3000
2900
2800
2700
2600
2500
2400

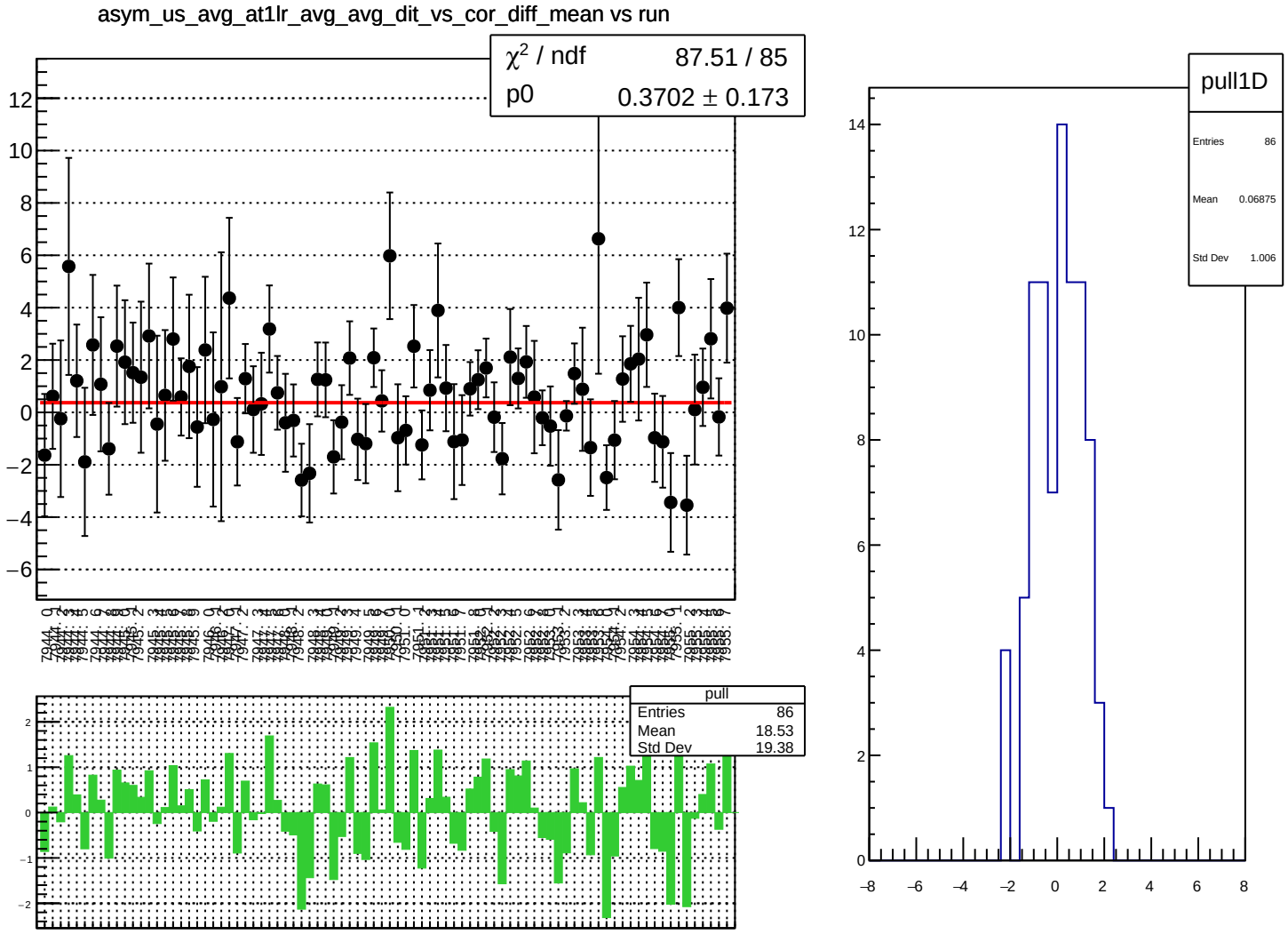

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 88.52 / 85
p0 6293 ± 3862
100
50
0
−50
−100
−150
pull
Entries 86
Mean −685.2
Std Dev 0
2
1
0
−1
−2
−3

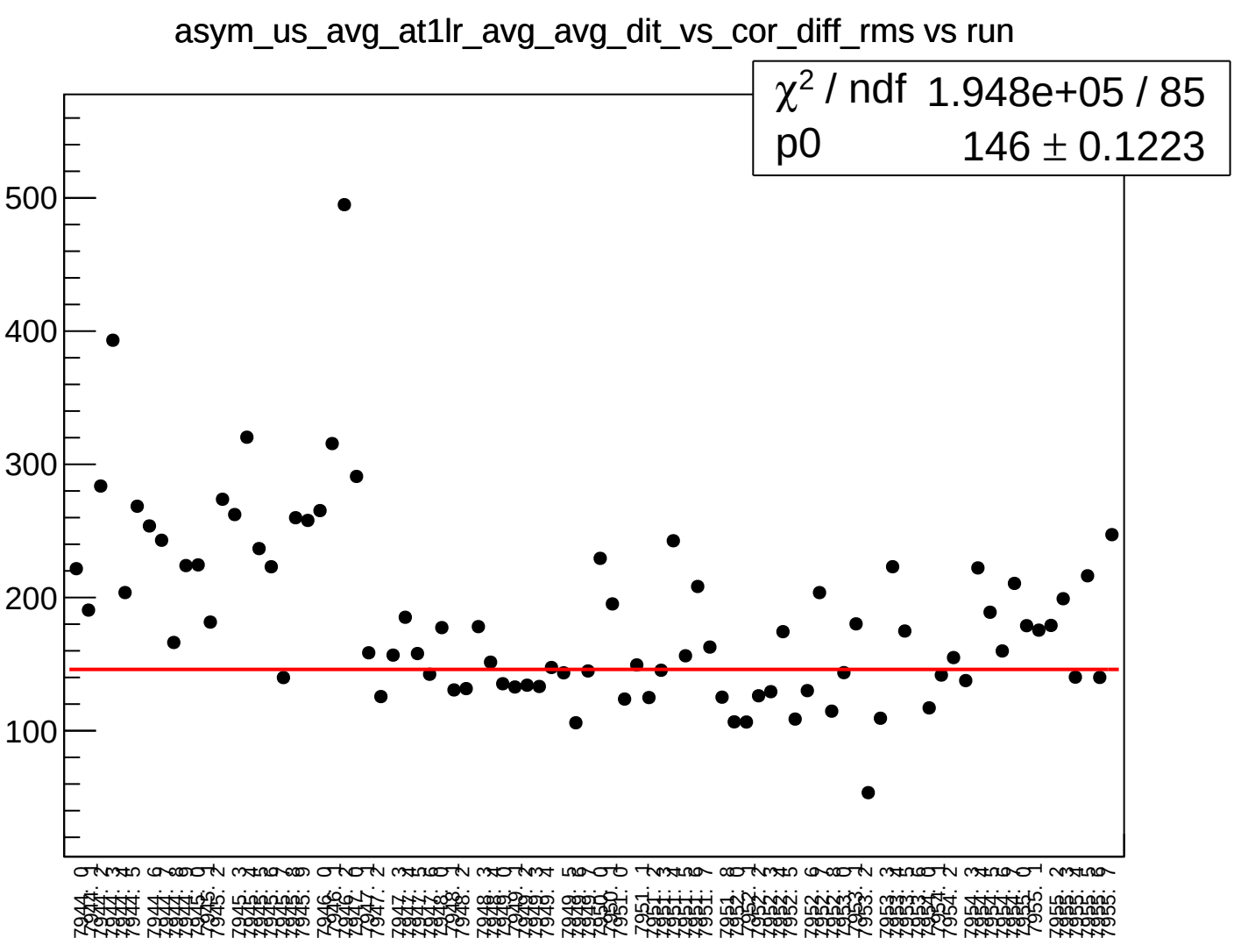

pull1D
Entries 86
Mean −0.003009
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

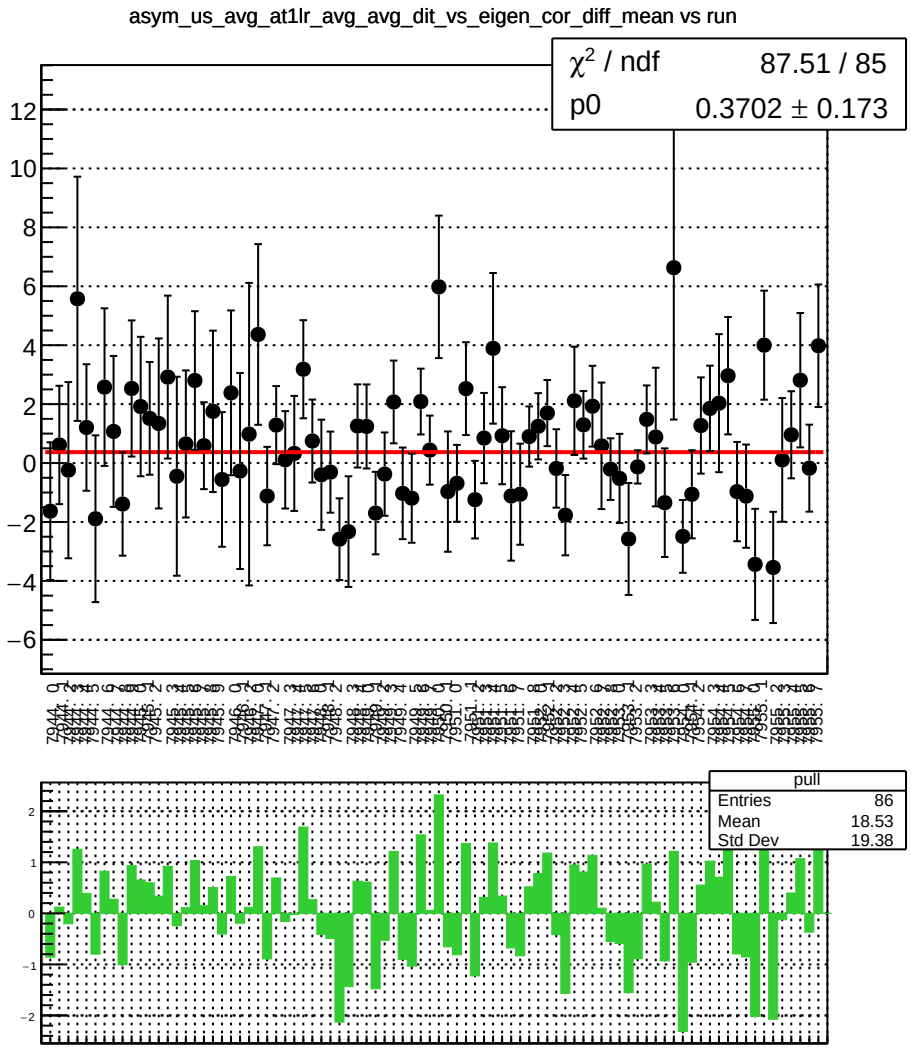

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 3479 / 85
p0 3471 ± 2.731
4000
3900
3800
3700
3600
3500
3400
3300
3200

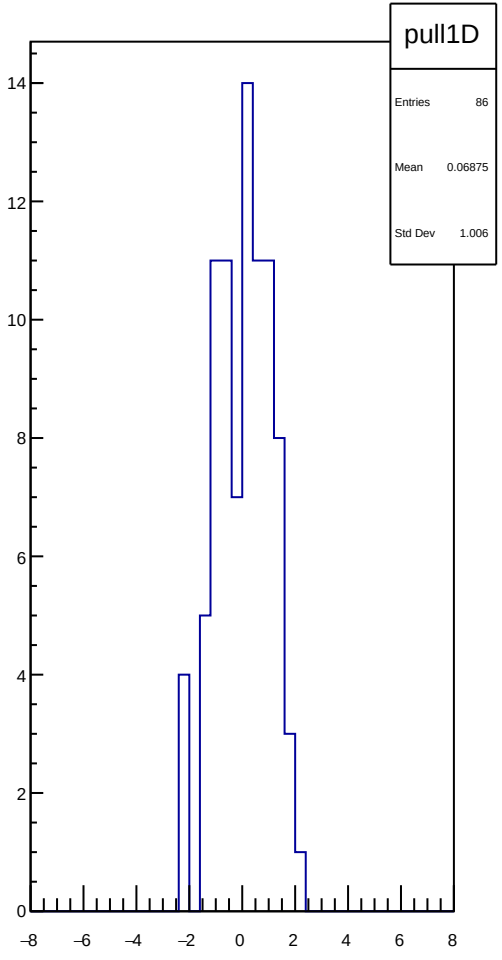

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.11 / 85
p0 2.306e−13 ± 3.592e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 86
Mean 32.26
Std Dev 16.5
pull1D
Entries 86
Mean −0.1696
Std Dev 1.043

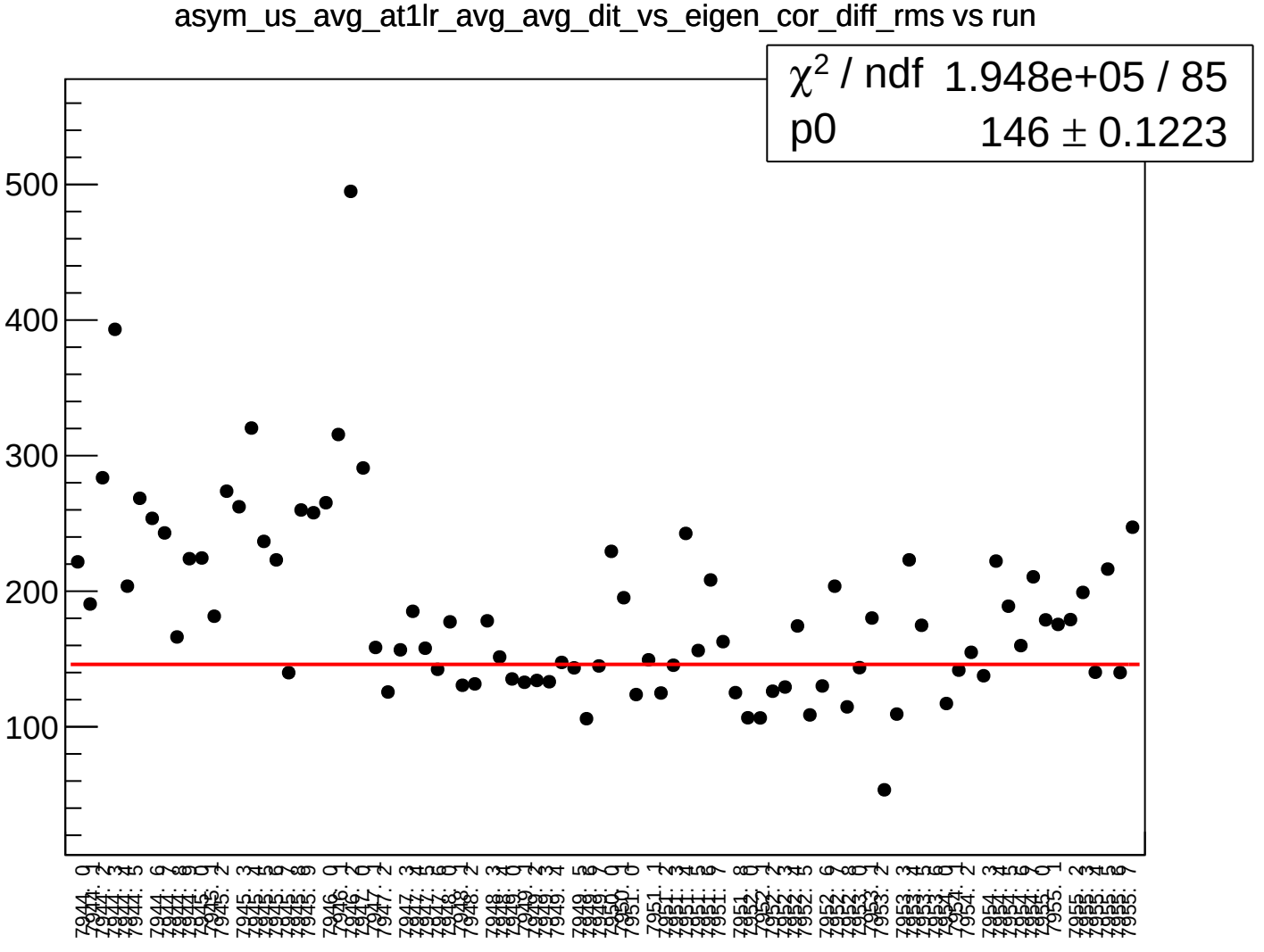

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.017e+06 / 85
p0 1.972e−10 ± 2.54e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

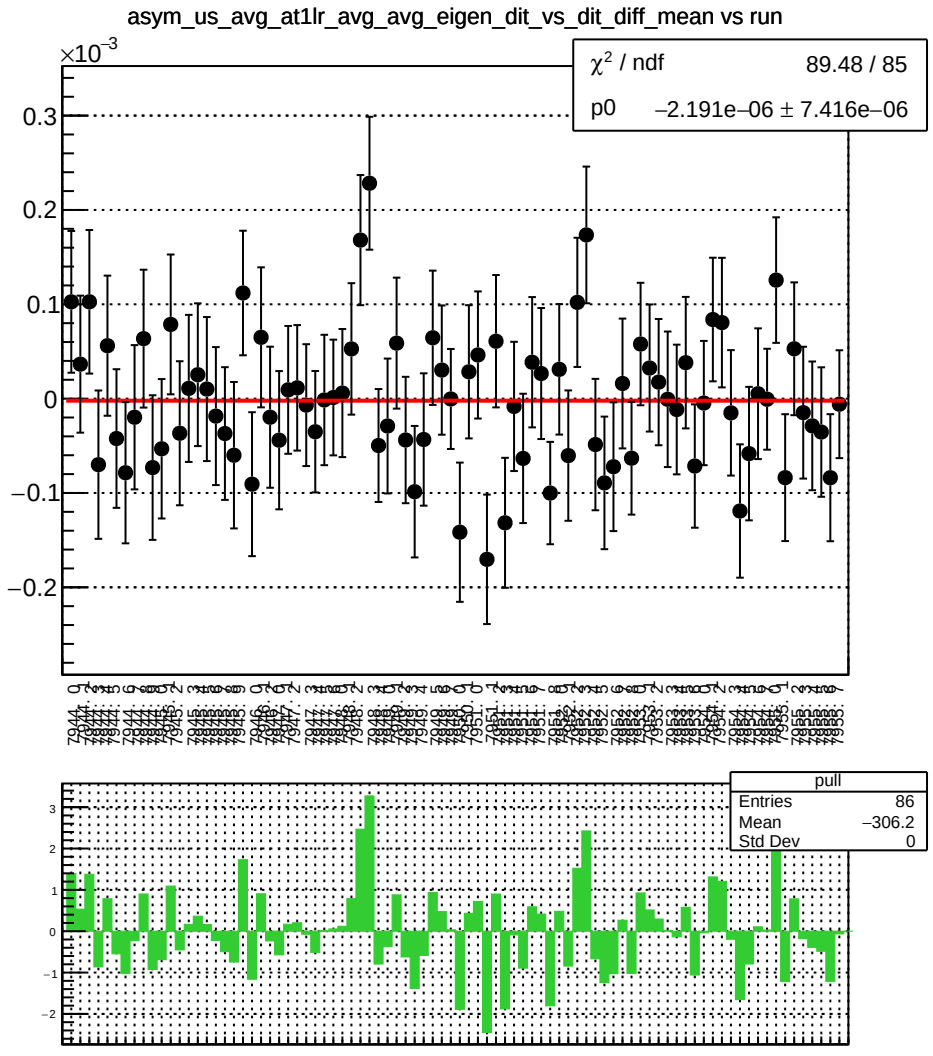

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.51 / 85
p0 0.3702 ± 0.173
pull
Entries 86
Mean 18.53
Std Dev 19.38
pull1D
Entries 86
Mean 0.06875
Std Dev 1.006

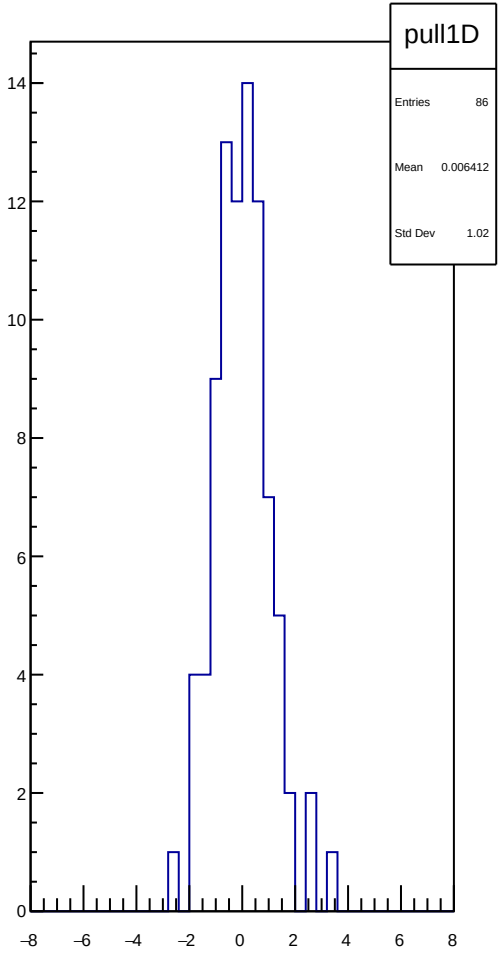

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.948e+05 / 85
p0 146 ± 0.1223
500
400
300
200
100

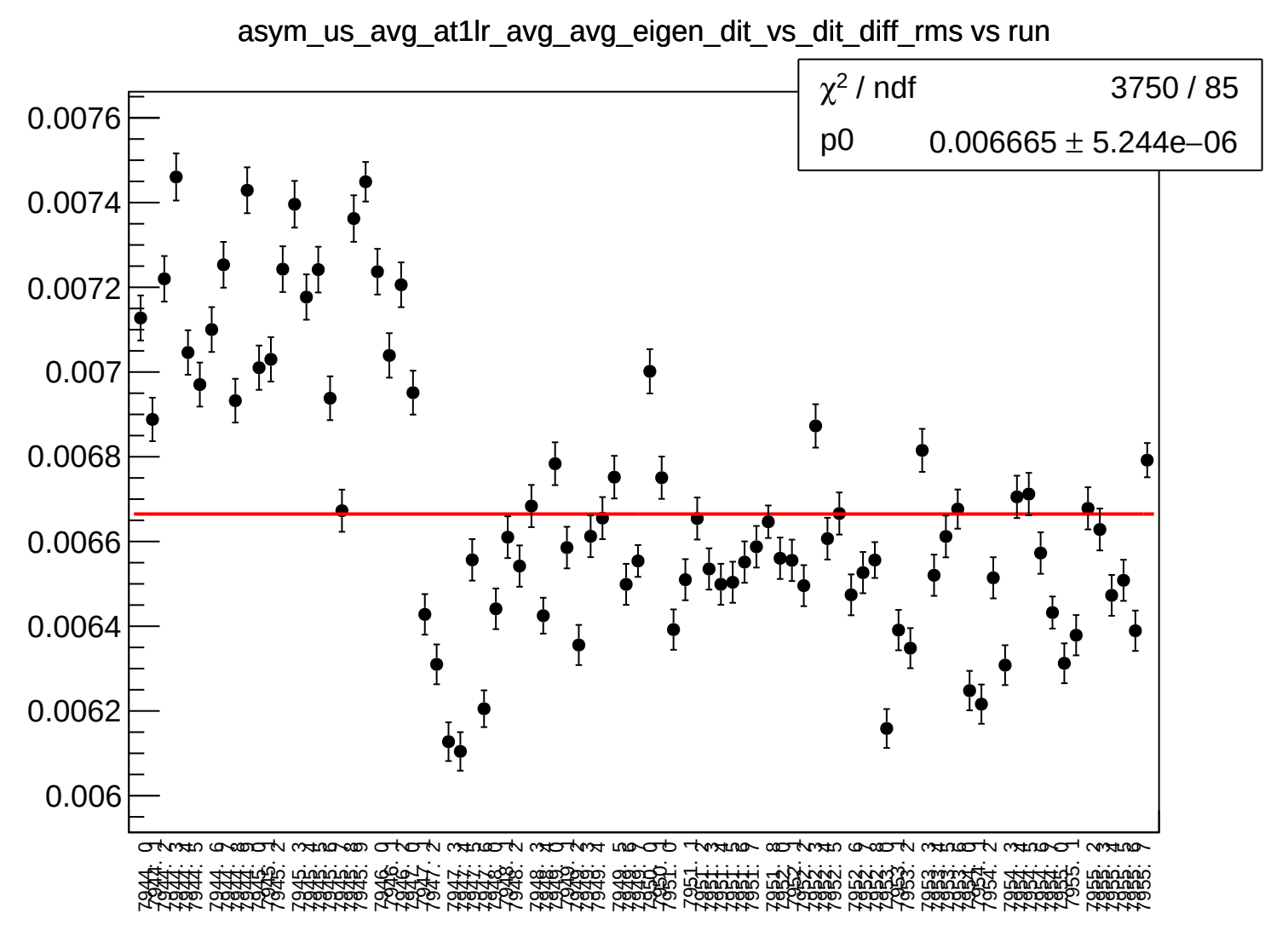

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.51 / 85
p0 0.3702 ± 0.173
pull
Entries 86
Mean 18.53
Std Dev 19.38

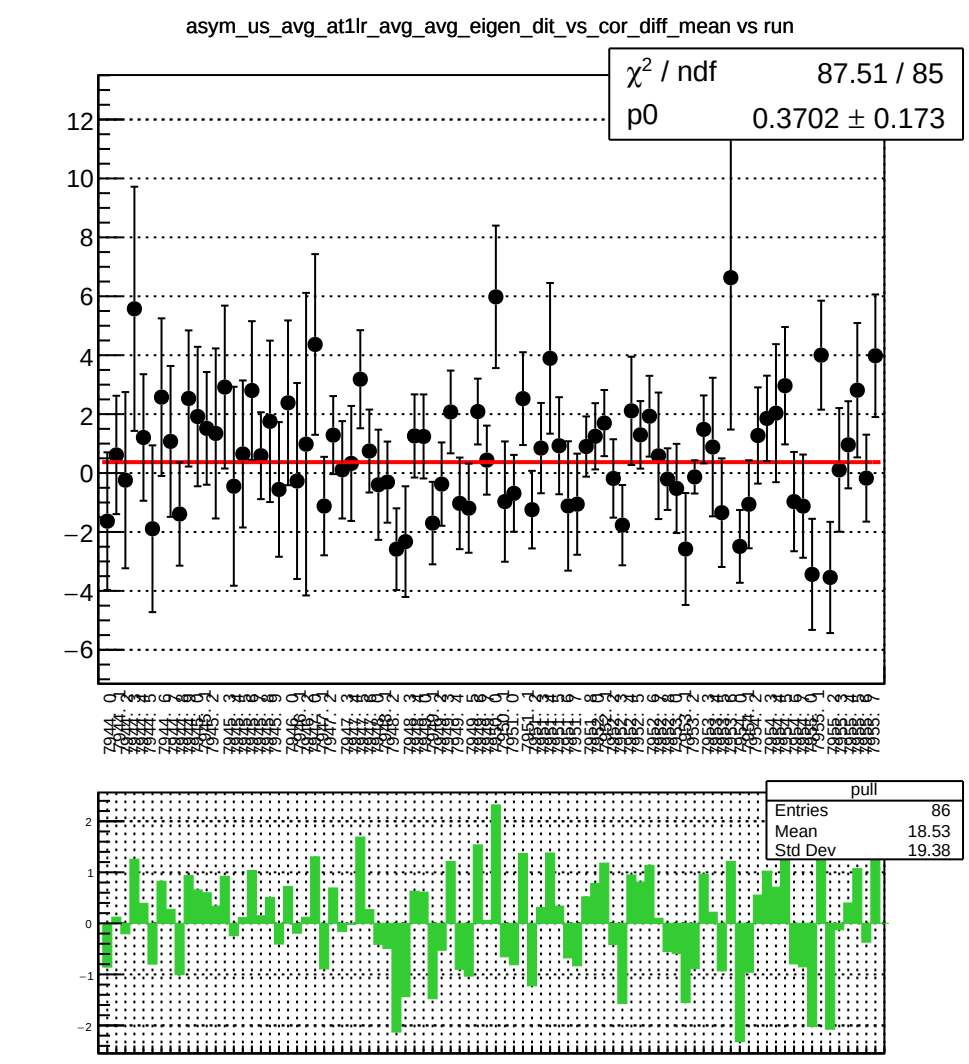

pull1D
Entries 86
Mean 0.06875
Std Dev 1.006

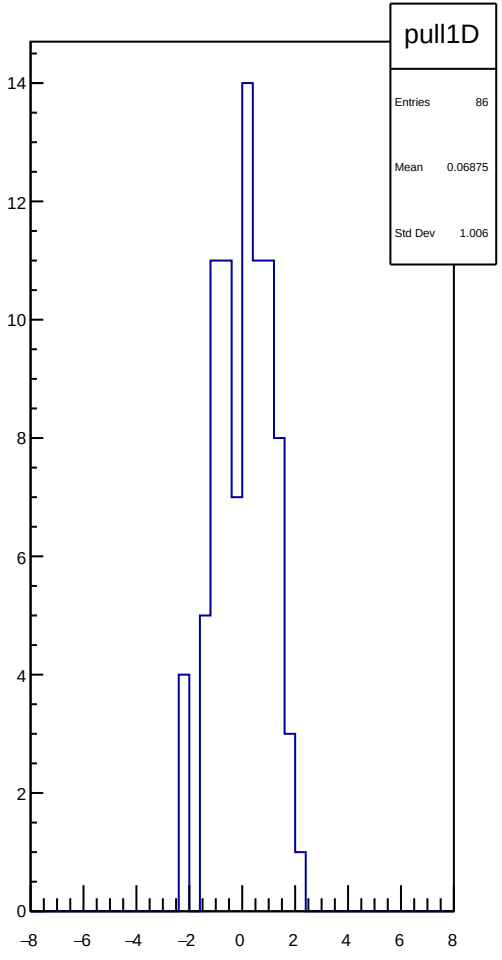

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.948e+05 / 85
p0 146 ± 0.1223
500
400
300
200
100

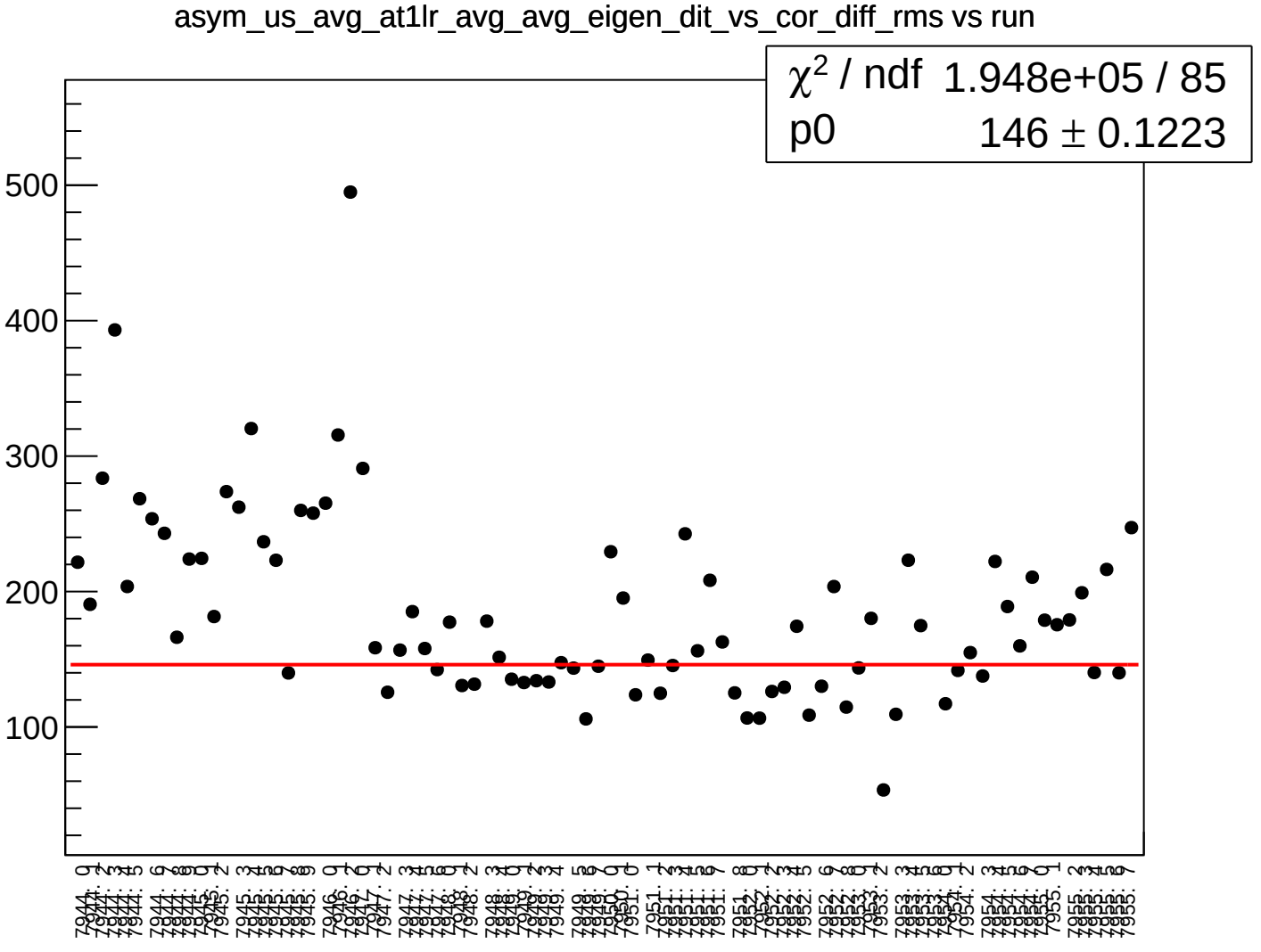

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.48 / 85
p0 −2.191e−06 ± 7.416e−06
pull
Entries 86
Mean −306.2
Std Dev 0

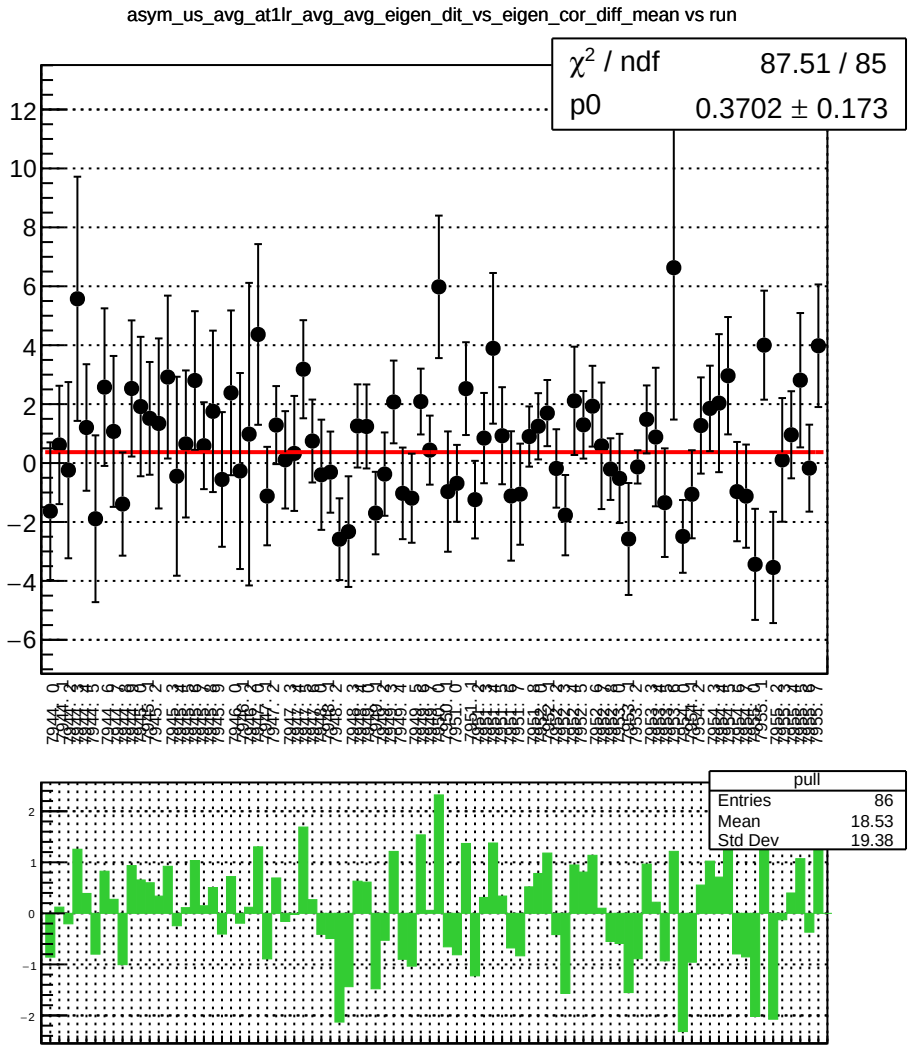

pull1D
Entries 86
Mean 0.006412
Std Dev 1.02

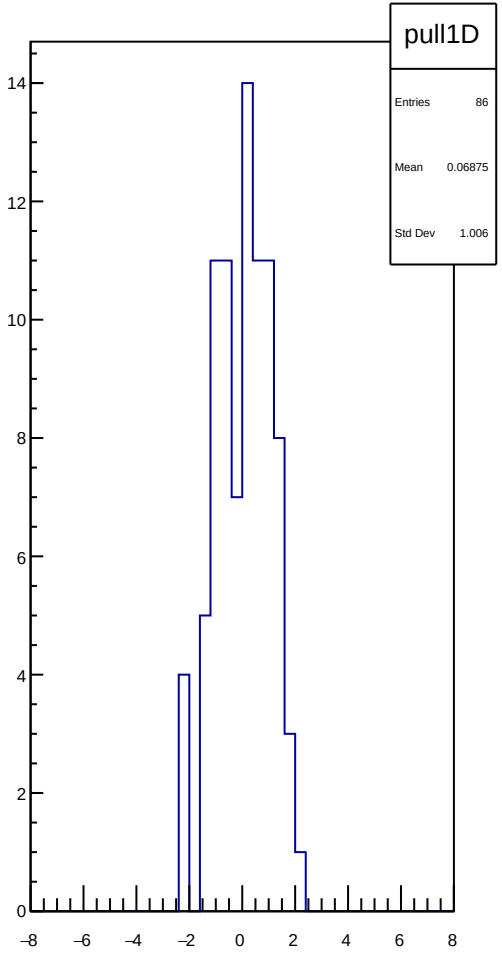

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3750 / 85
p0 0.006665 ± 5.244e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

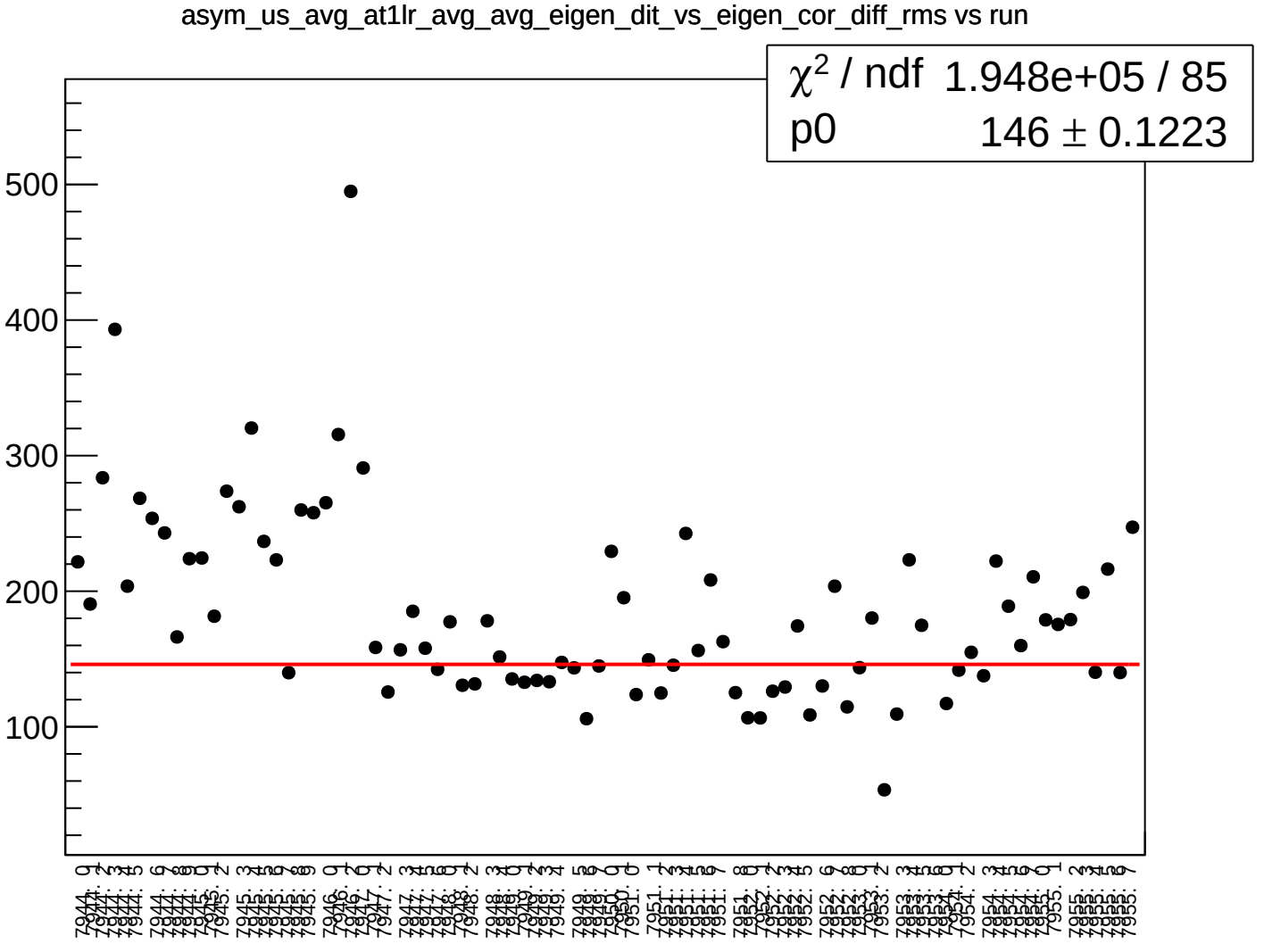

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.51 / 85
p0 0.3702 ± 0.173
pull
Entries 86
Mean 18.53
Std Dev 19.38

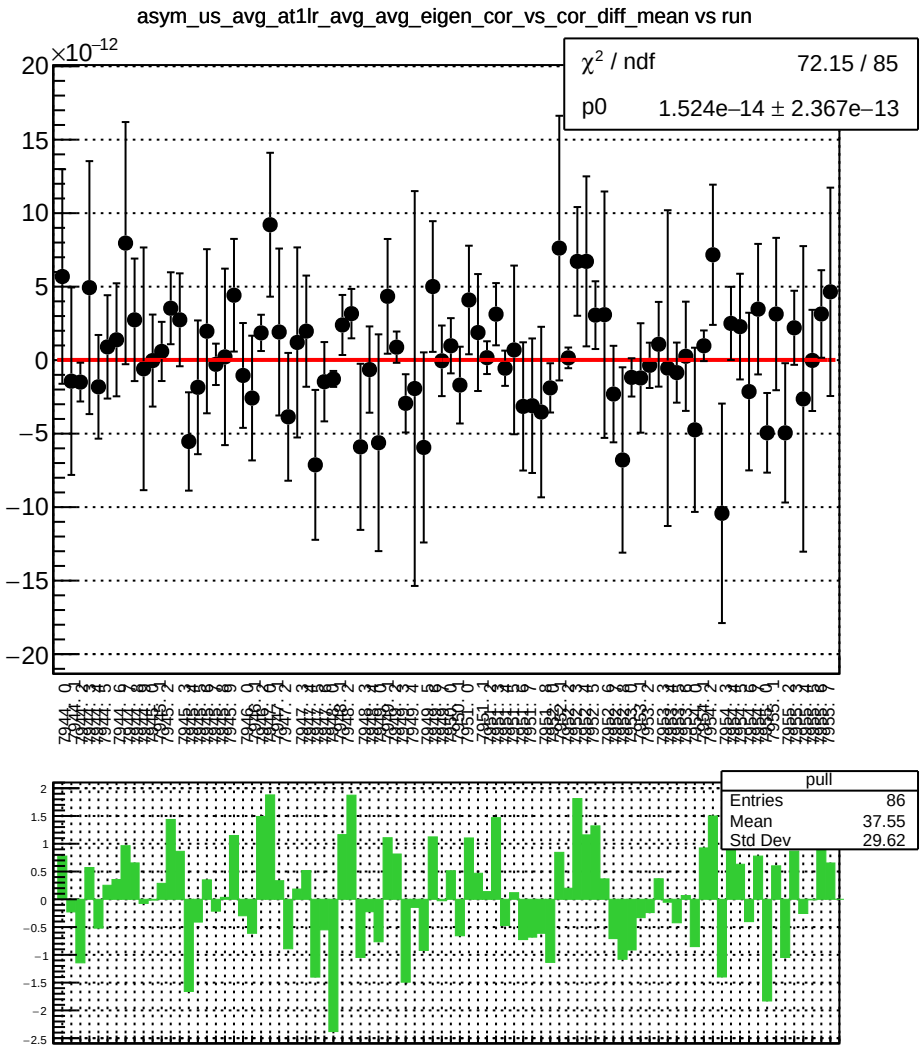

pull1D
Entries 86
Mean 0.06875
Std Dev 1.006

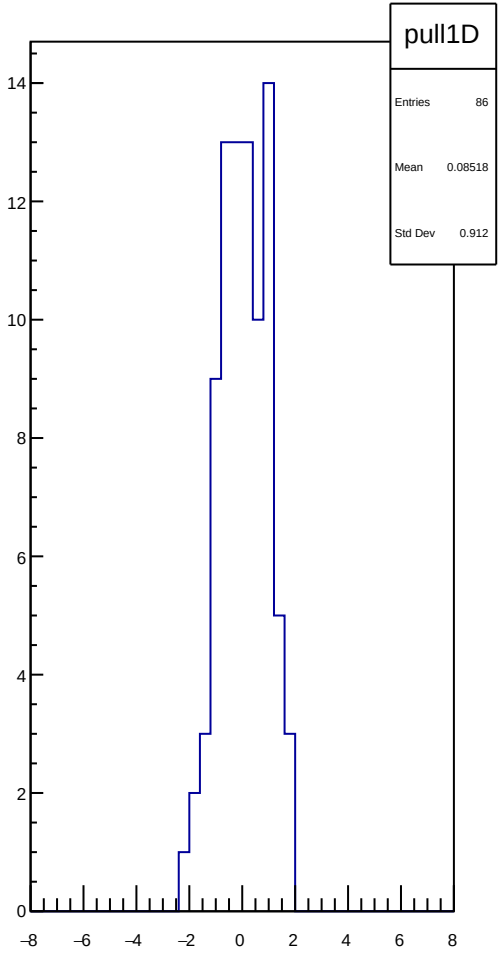

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.948e+05 / 85
p0 146 ± 0.1223
500
400
300
200
100

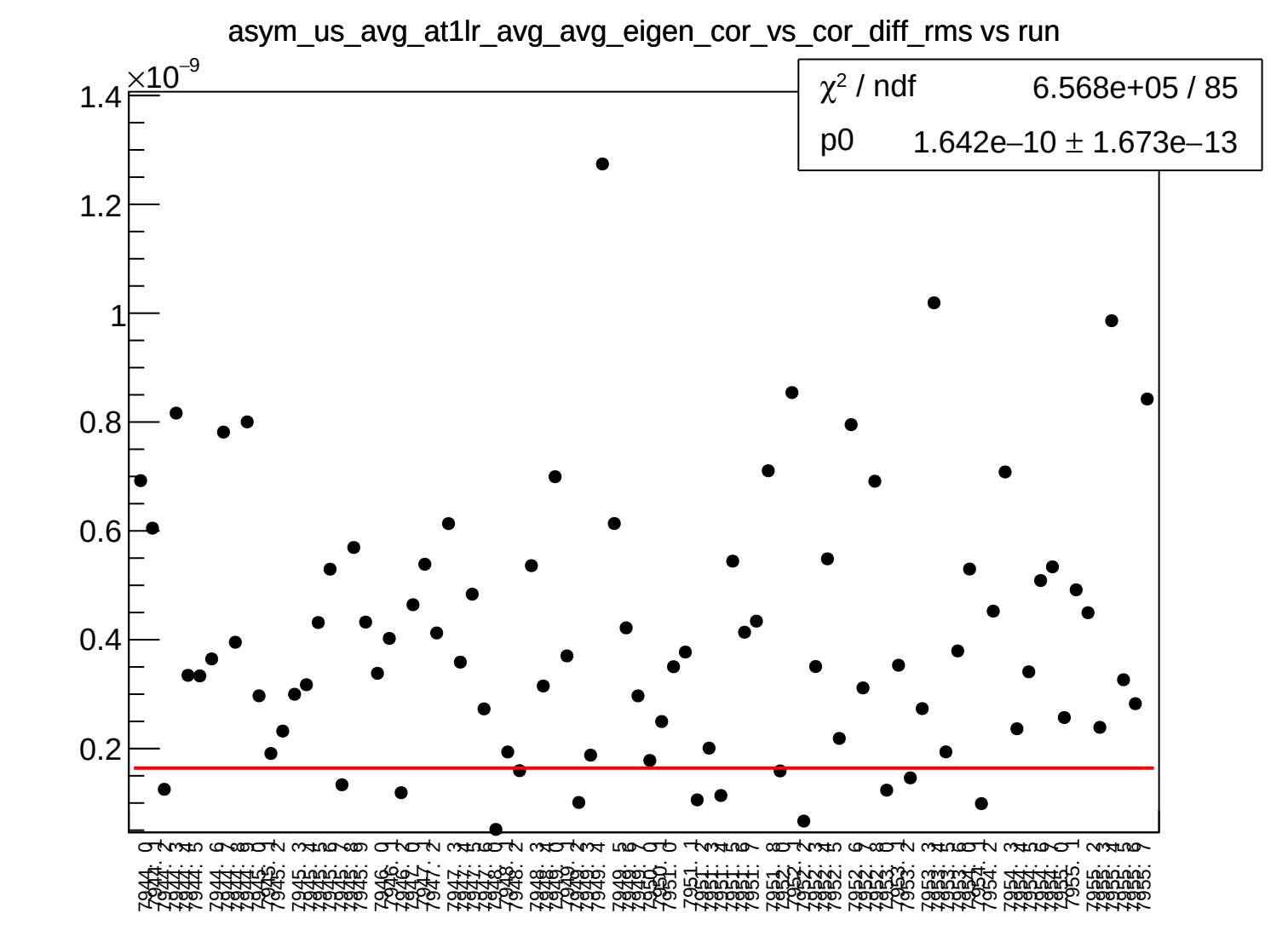

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.51 / 85
p0 0.3702 ± 0.173
pull
Entries 86
Mean 18.53
Std Dev 19.38

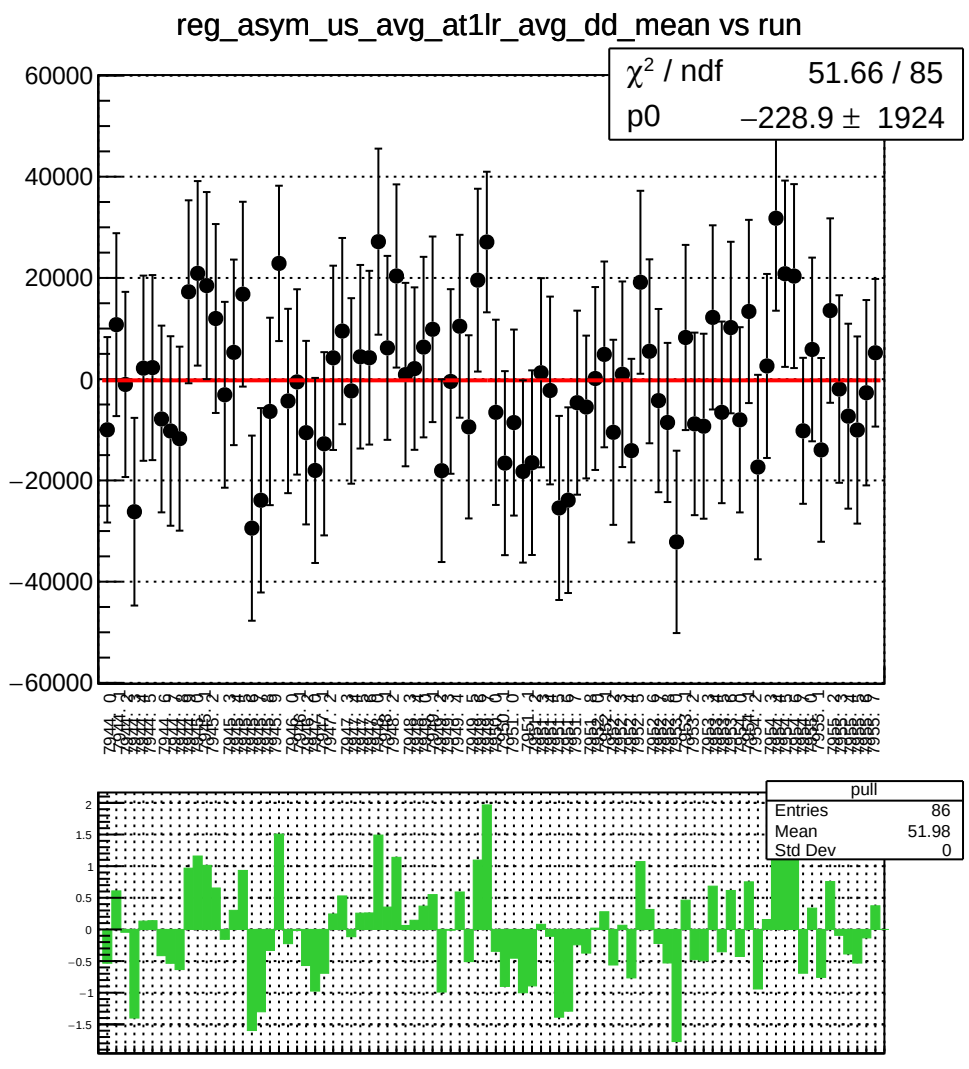

pull1D
Entries 86
Mean 0.06875
Std Dev 1.006

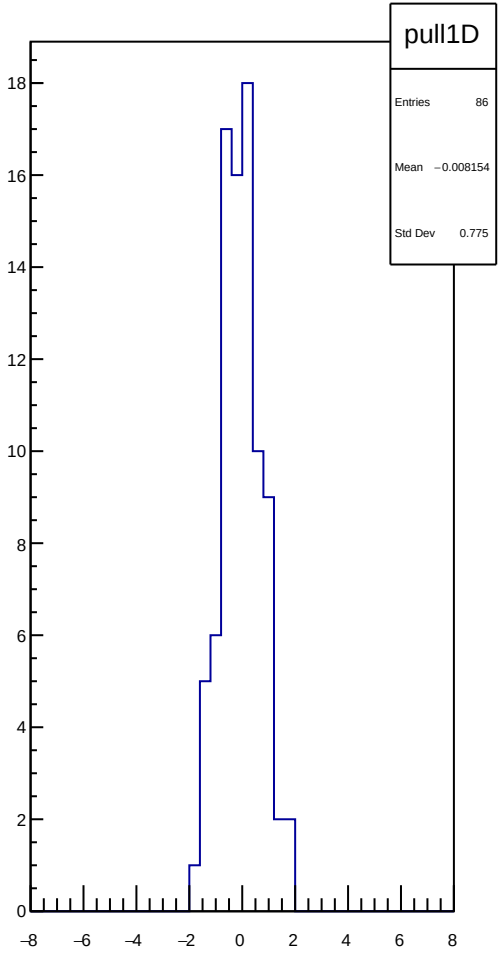

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.948e+05 / 85
p0 146 ± 0.1223
500
400
300
200
100

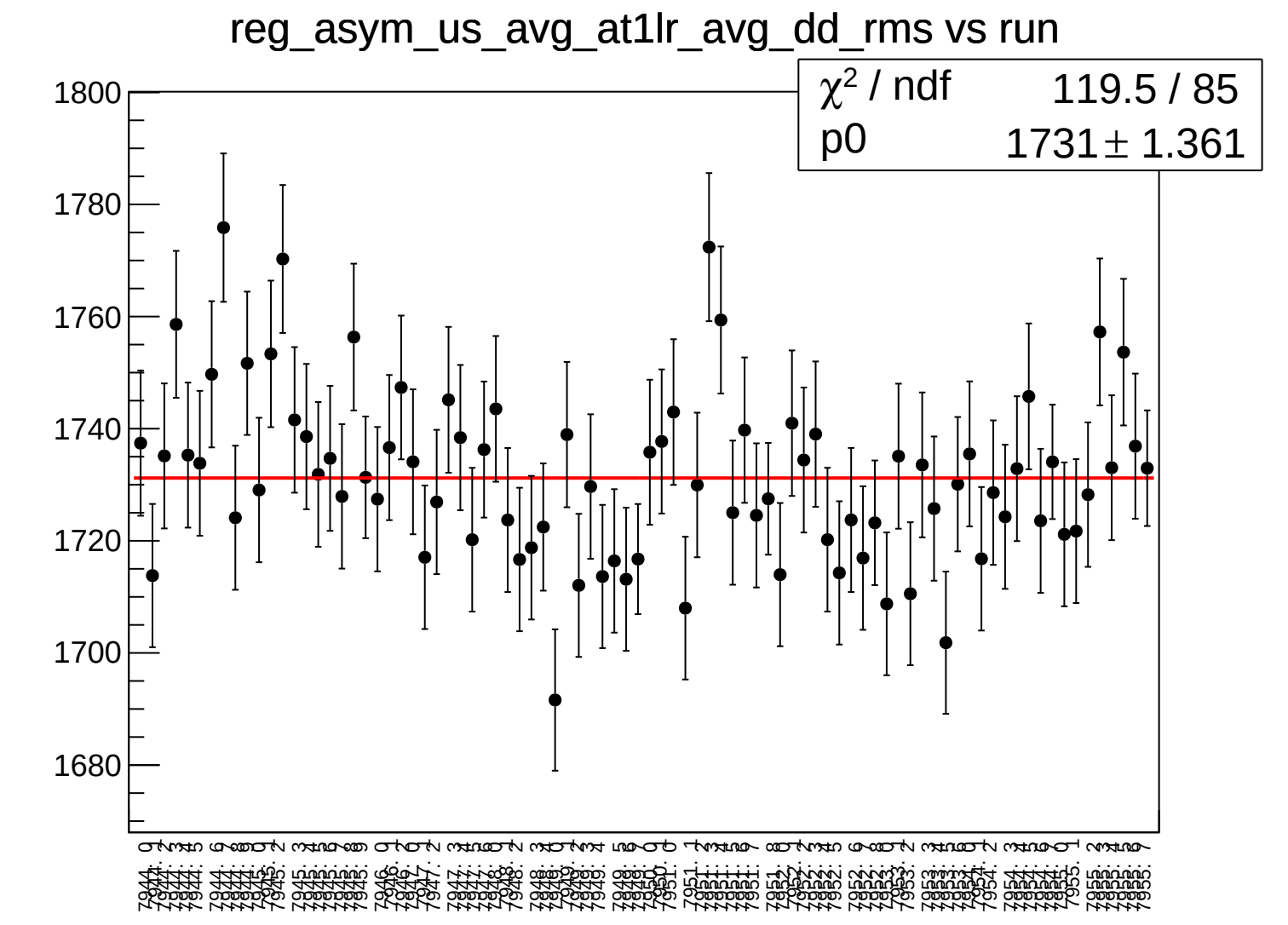

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.15 / 85
p0 1.524e−14 ± 2.367e−13
pull
Entries 86
Mean 37.55
Std Dev 29.62

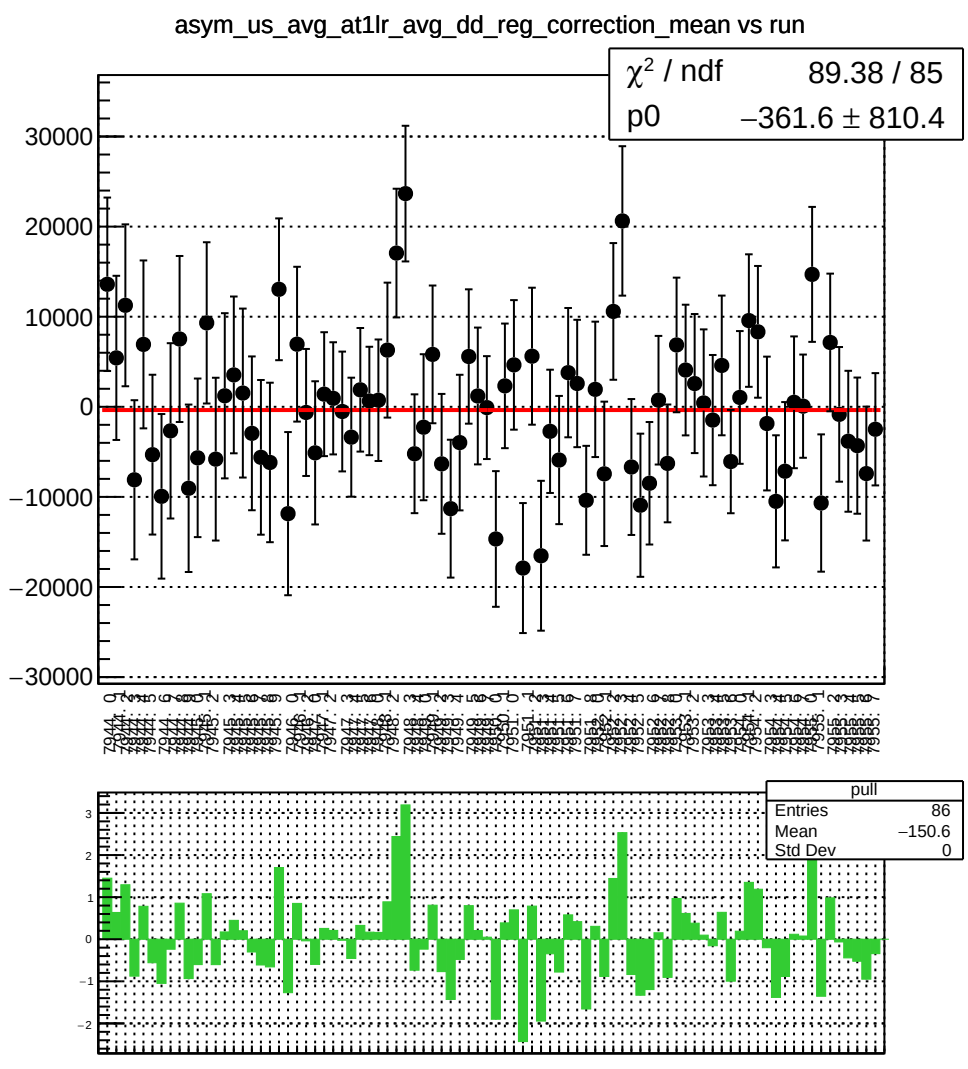

pull1D
Entries 86
Mean 0.08518
Std Dev 0.912

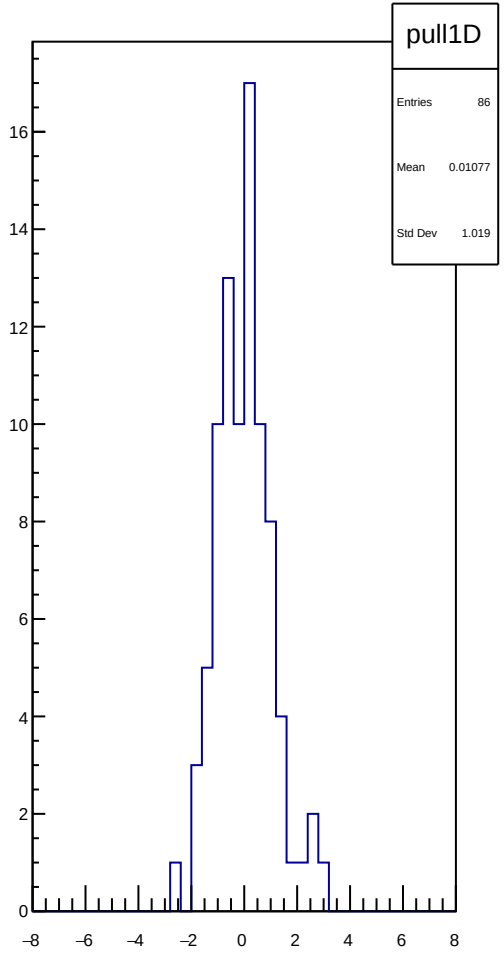

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 6.568e+05 / 85
p0 1.642e−10 ± 1.673e−13

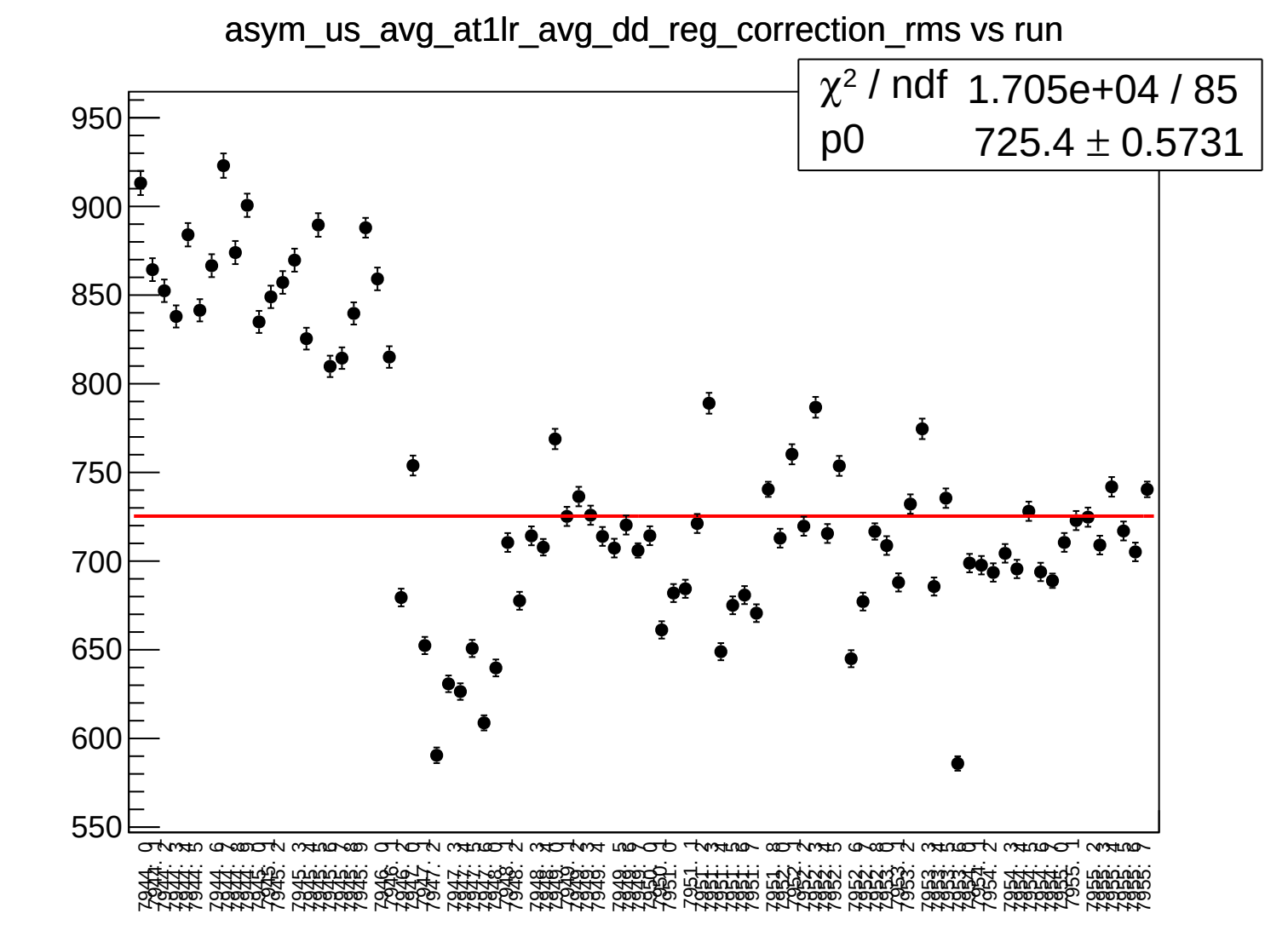

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 51.66 / 85
p0 −228.9 ± 1924
pull
Entries 86
Mean 51.98
Std Dev 0

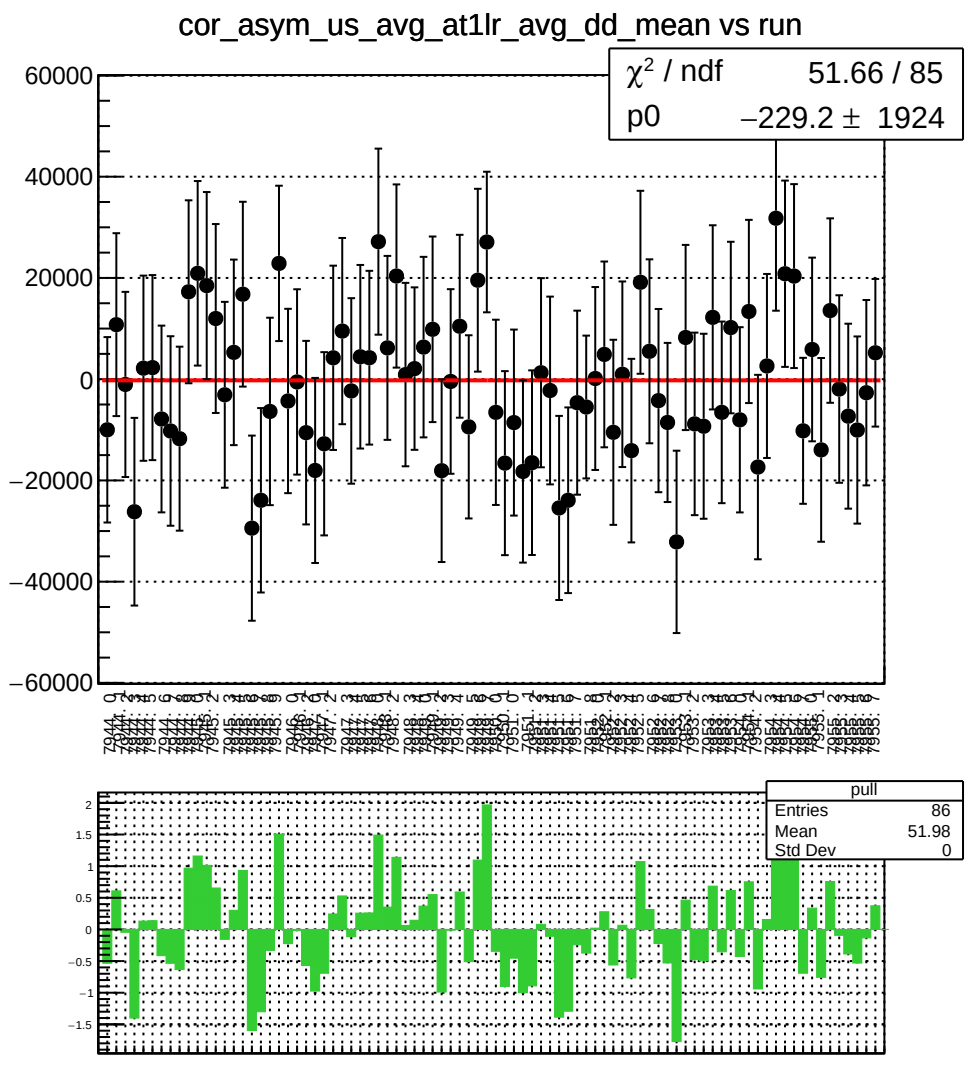

pull1D
Entries 86
Mean −0.008154
Std Dev 0.775

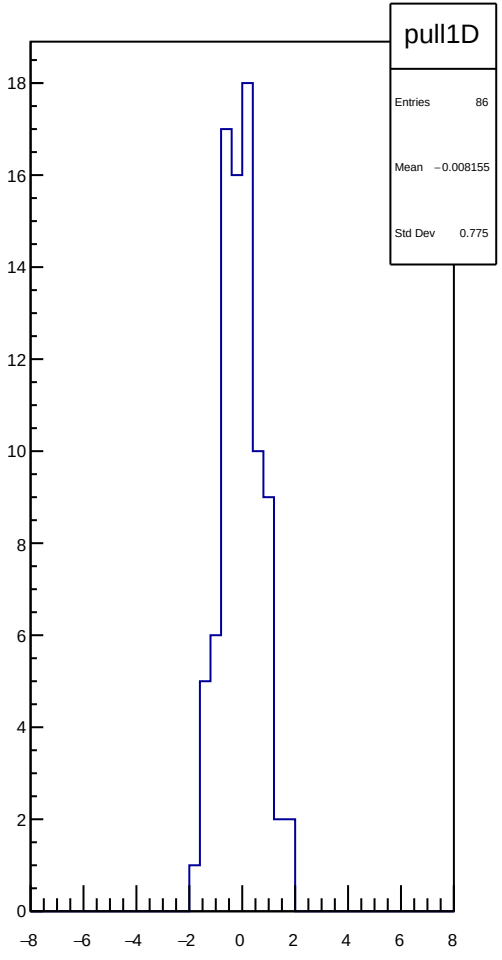

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 119.5 / 85
p0 1731 ± 1.361
1800
1780
1760
1740
1720
1700
1680

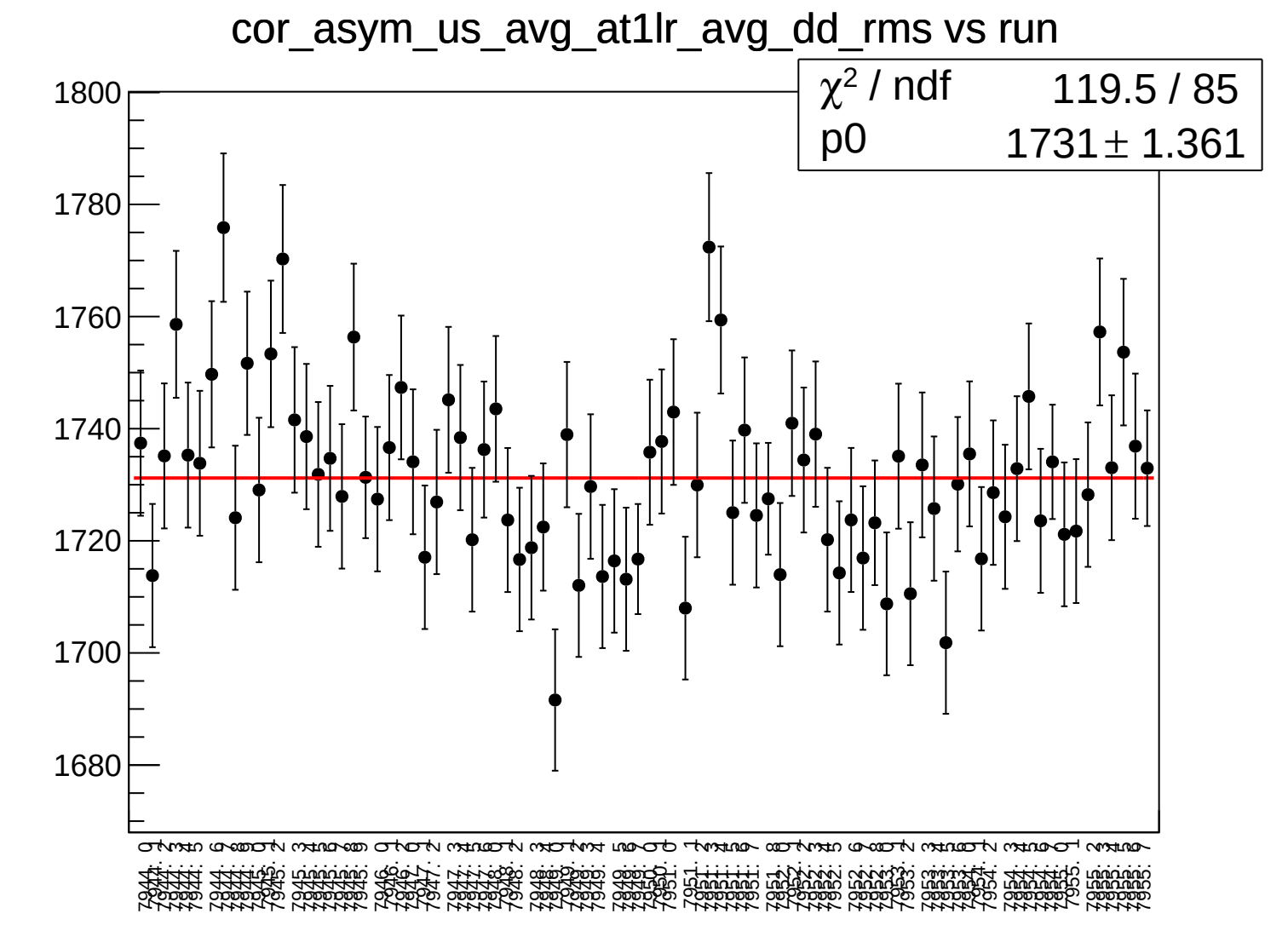

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 89.38 / 85
p0 −361.6 ± 810.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −150.6
Std Dev 0
3
2
1
0
−1
−2

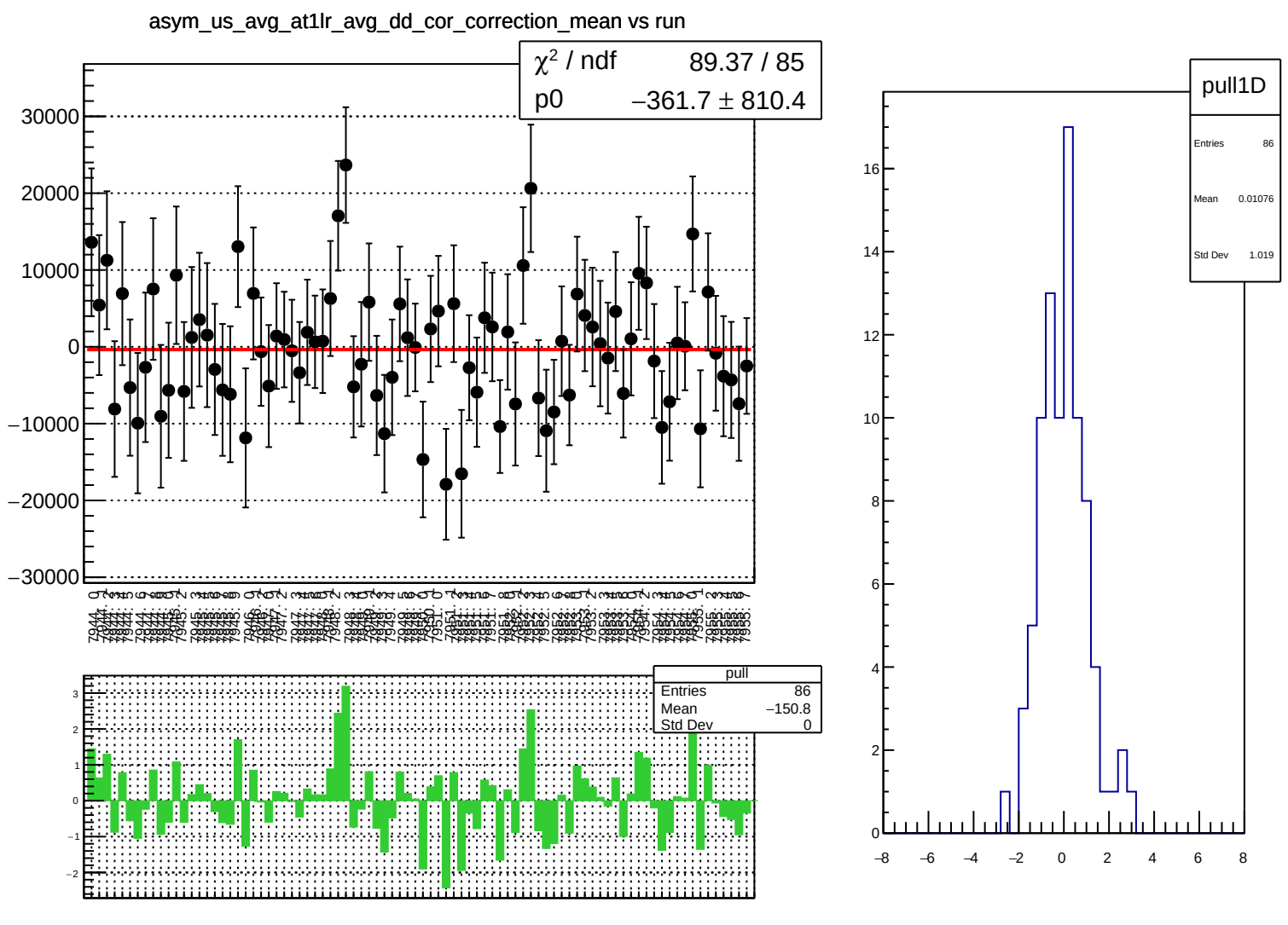

pull1D
Entries 86
Mean 0.01077
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

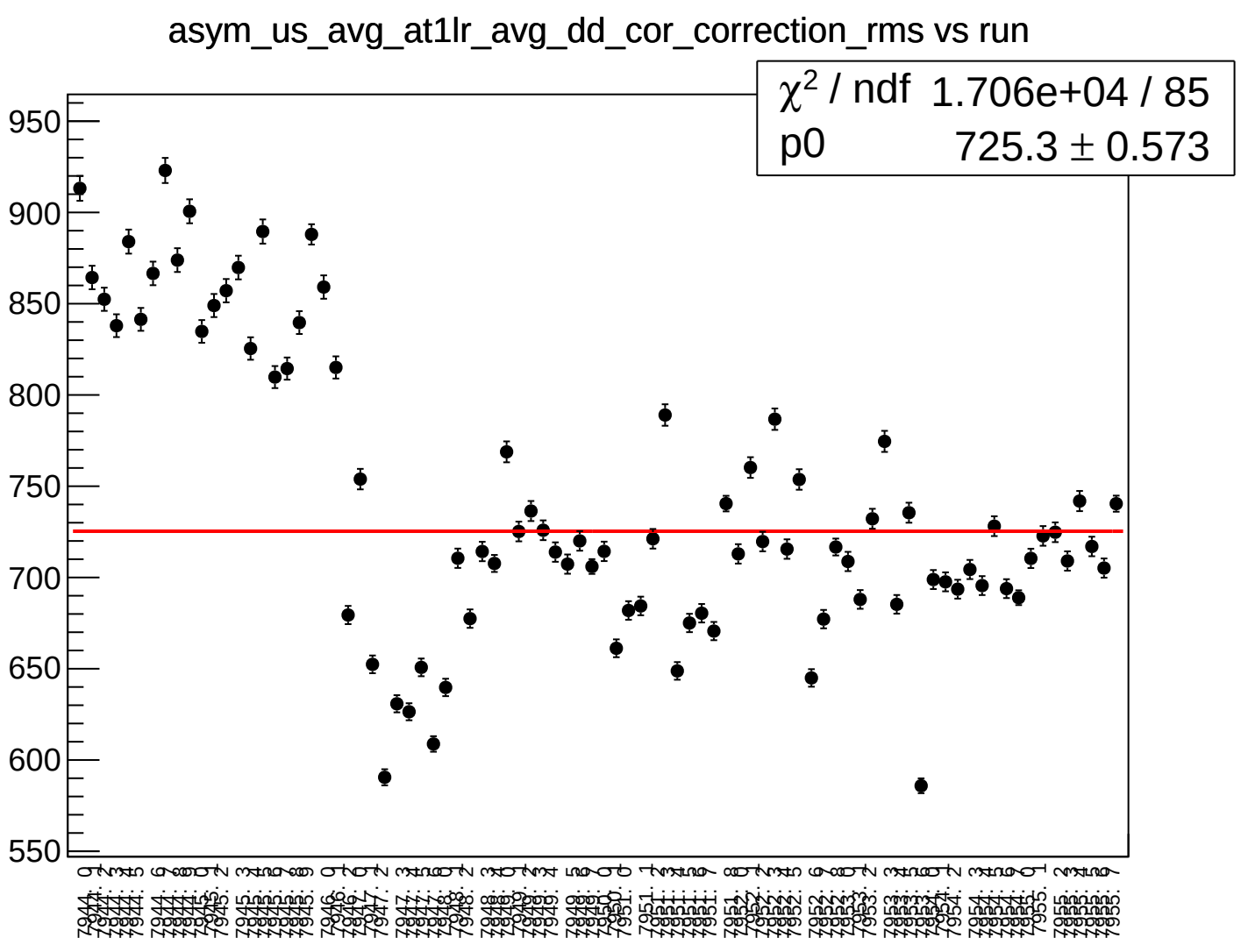

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.705e+04 / 85
p0 725.4 ± 0.5731
950
900
850
800
750
700
650
600
550

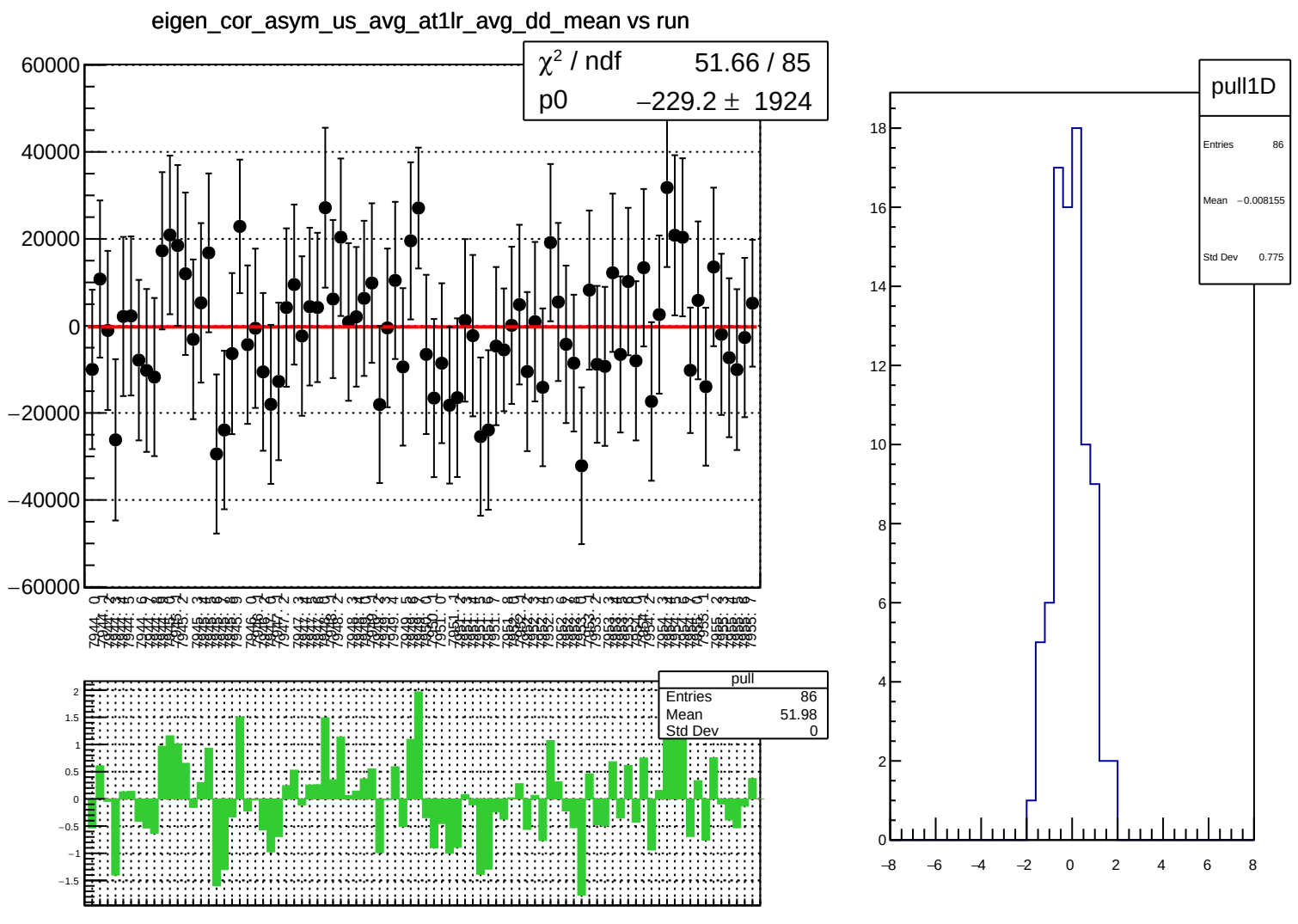

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 51.66 / 85
p0 −229.2 ± 1924
pull
Entries 86
Mean 51.98
Std Dev 0

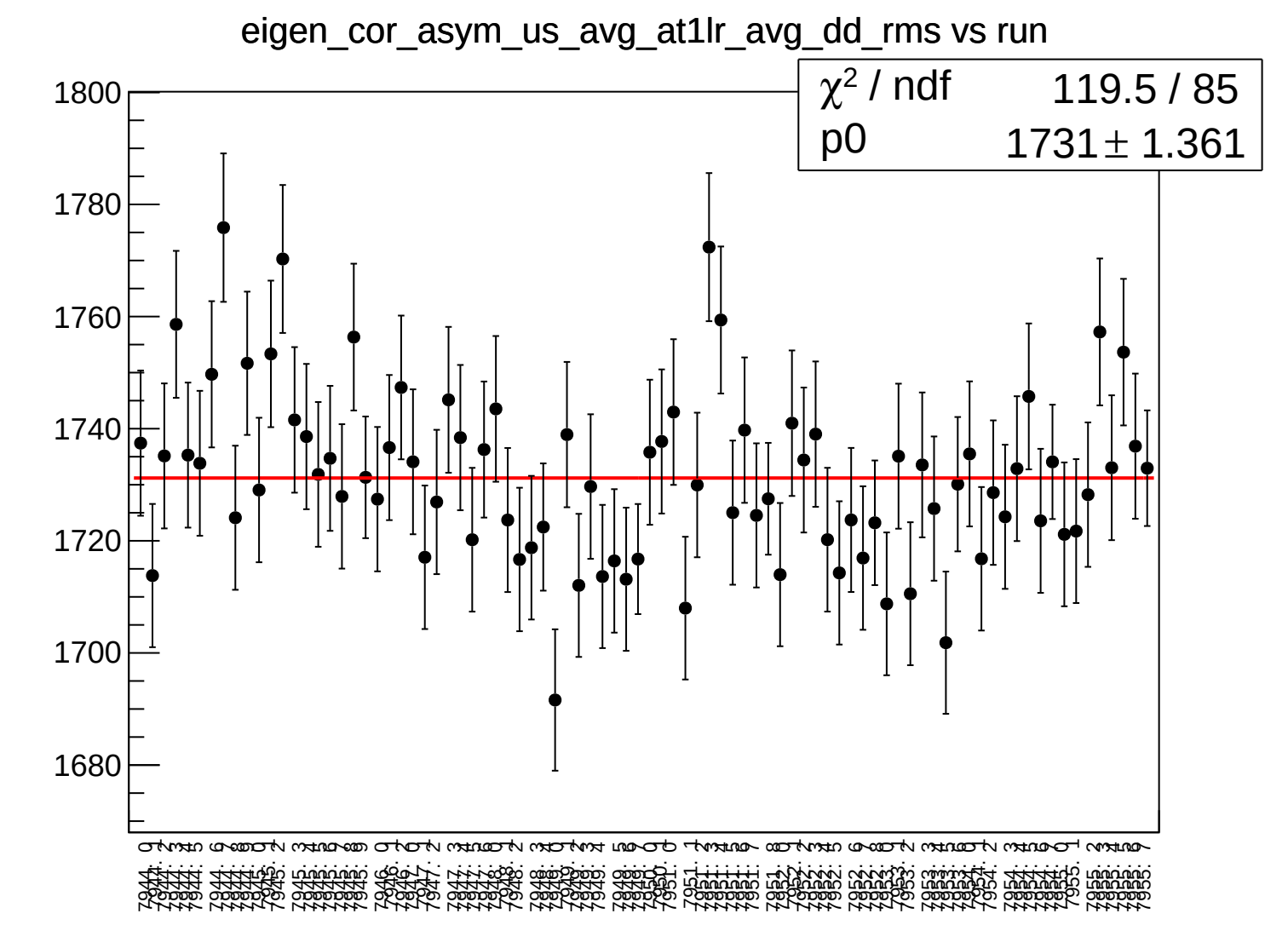

pull1D
Entries 86
Mean −0.008155
Std Dev 0.775

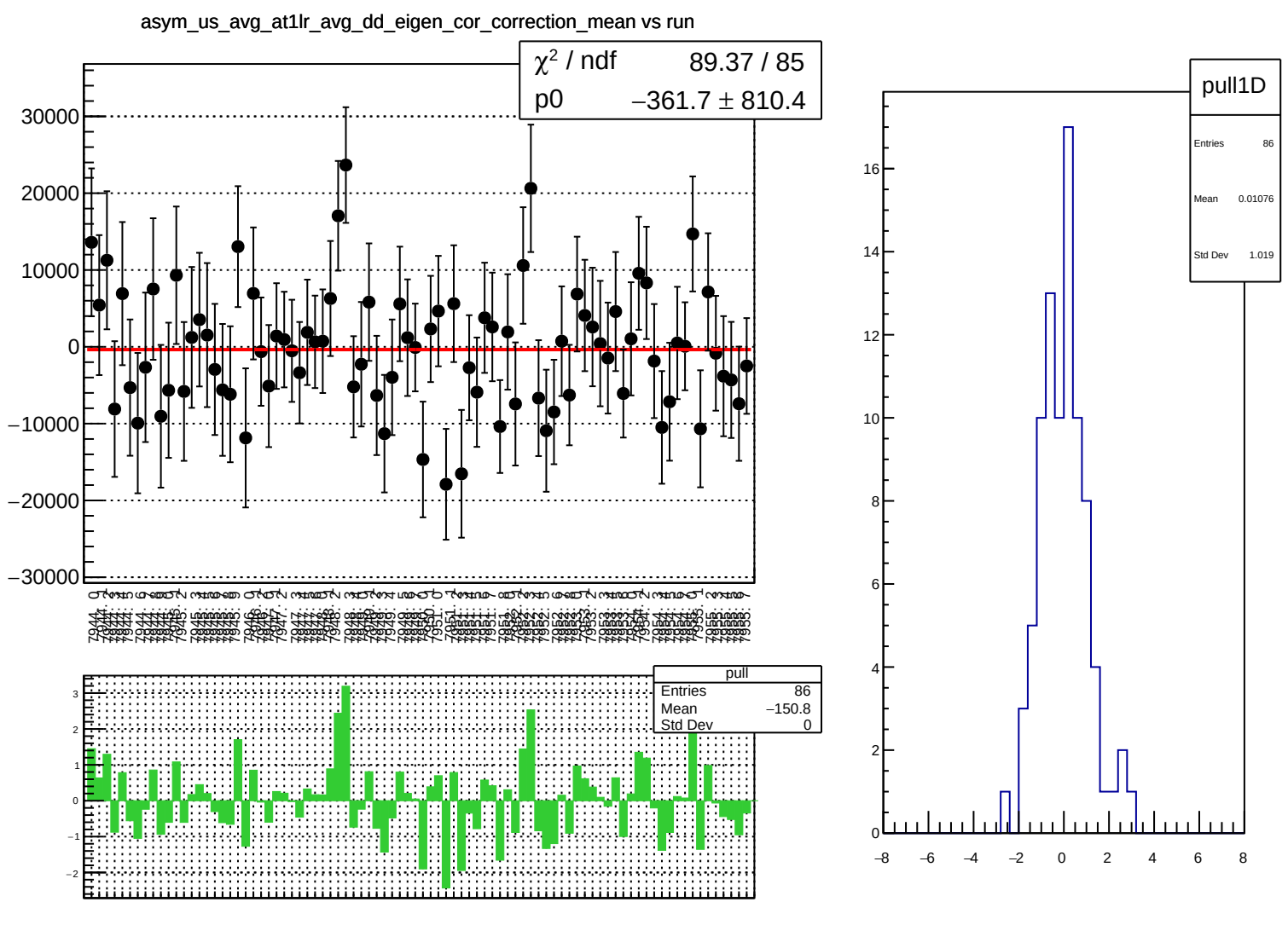

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 119.5 / 85
p0 1731 ± 1.361
1800
1780
1760
1740
1720
1700
1680

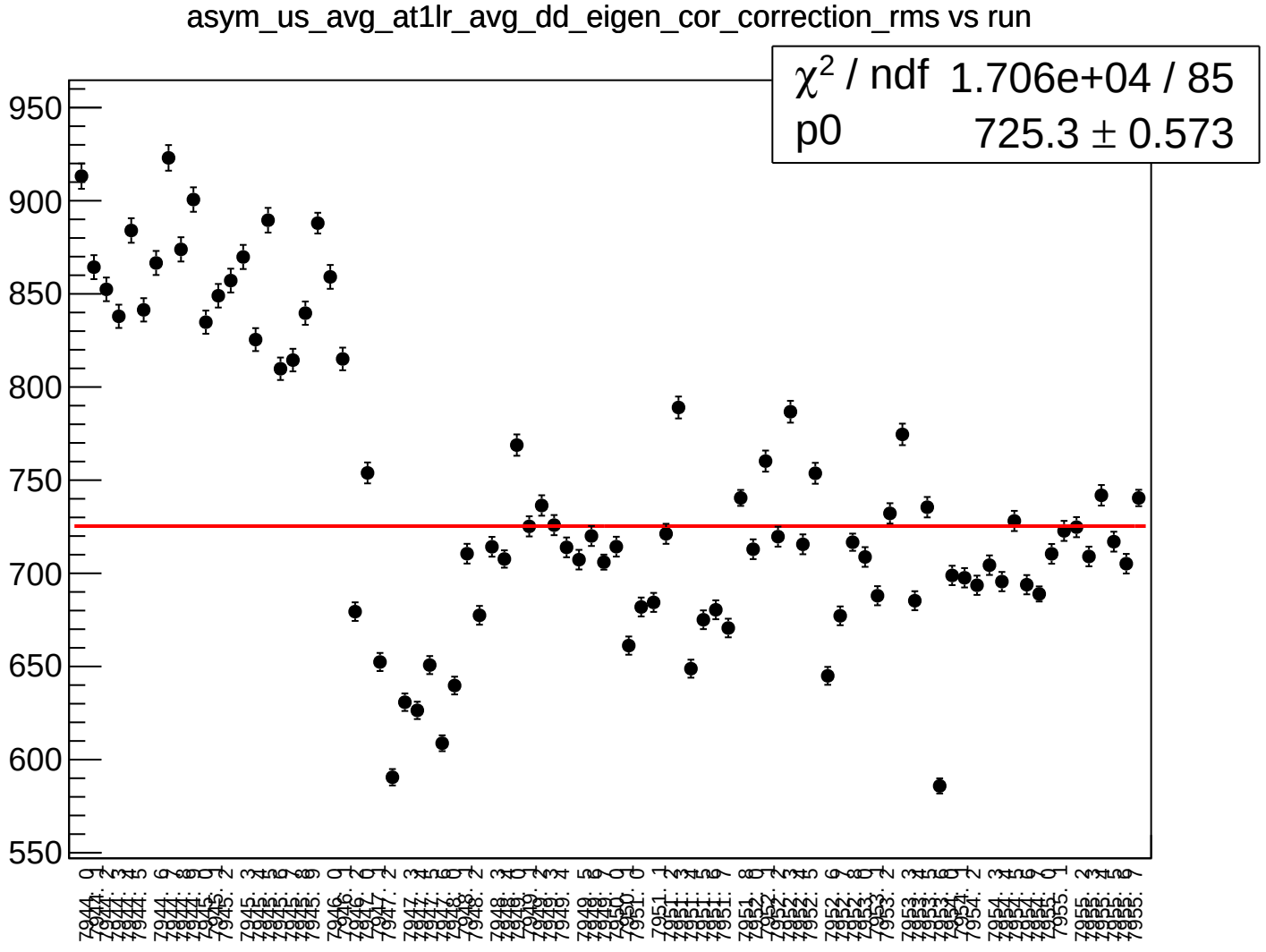

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 89.37 / 85
p0 −361.7 ± 810.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −150.8
Std Dev 0
pull1D
Entries 86
Mean 0.01076
Std Dev 1.019

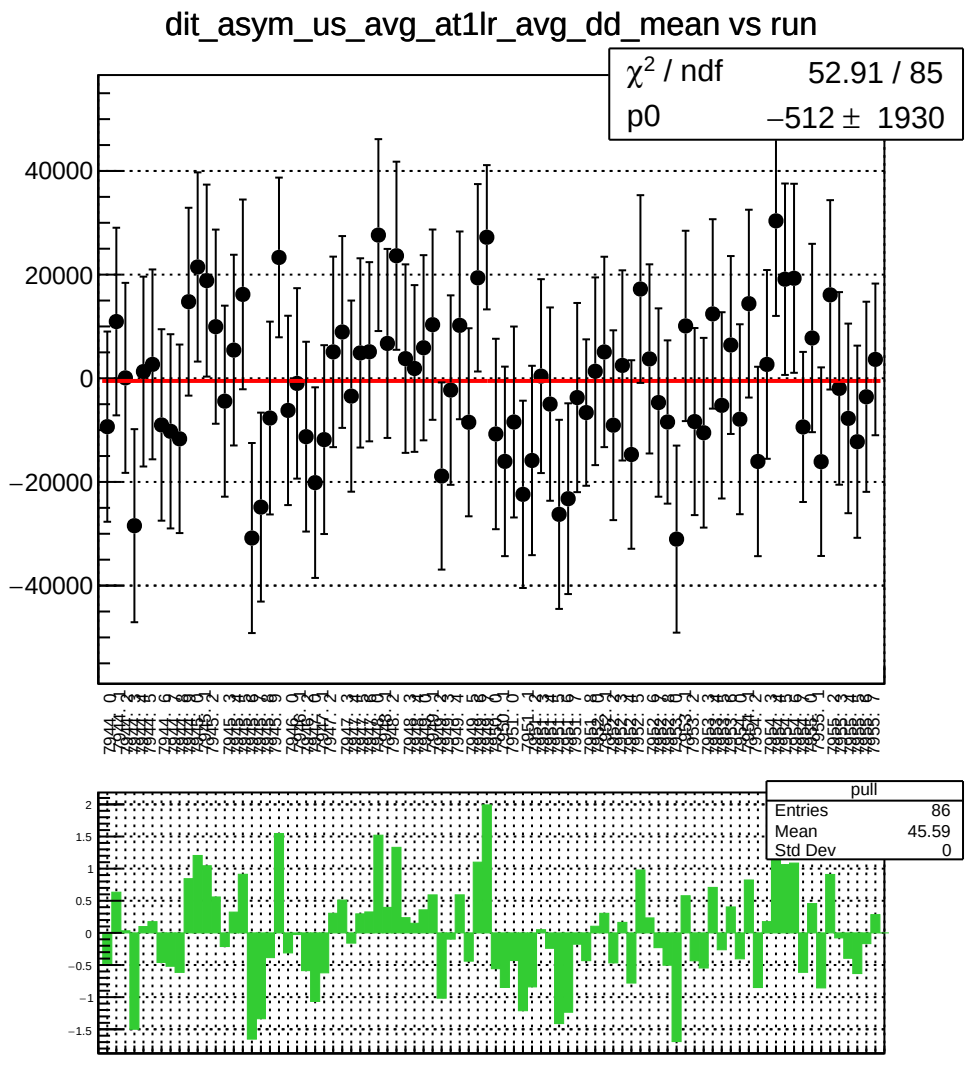

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.706e+04 / 85
p0 725.3 ± 0.573
950
900
850
800
750
700
650
600
550

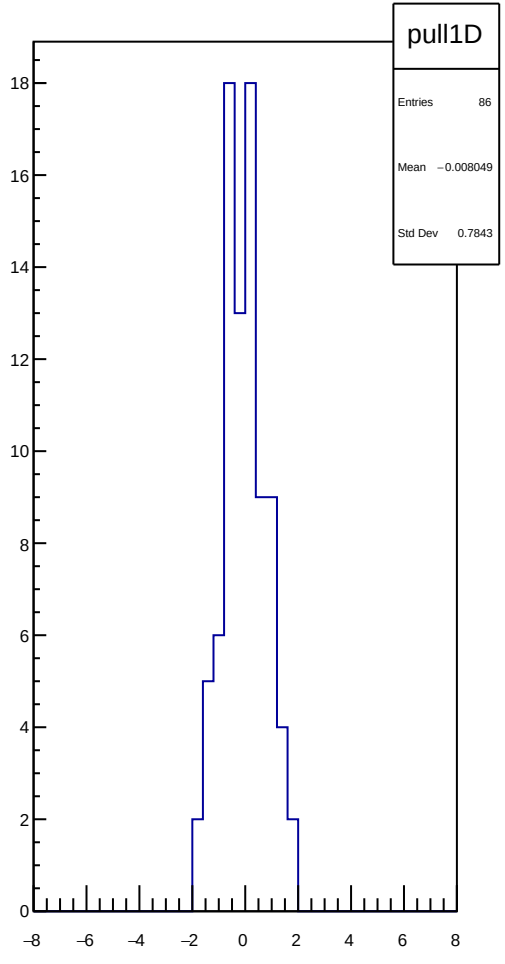

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 51.66 / 85
p0 −229.2 ± 1924
pull
Entries 86
Mean 51.98
Std Dev 0
pull1D
Entries 86
Mean −0.008155
Std Dev 0.775

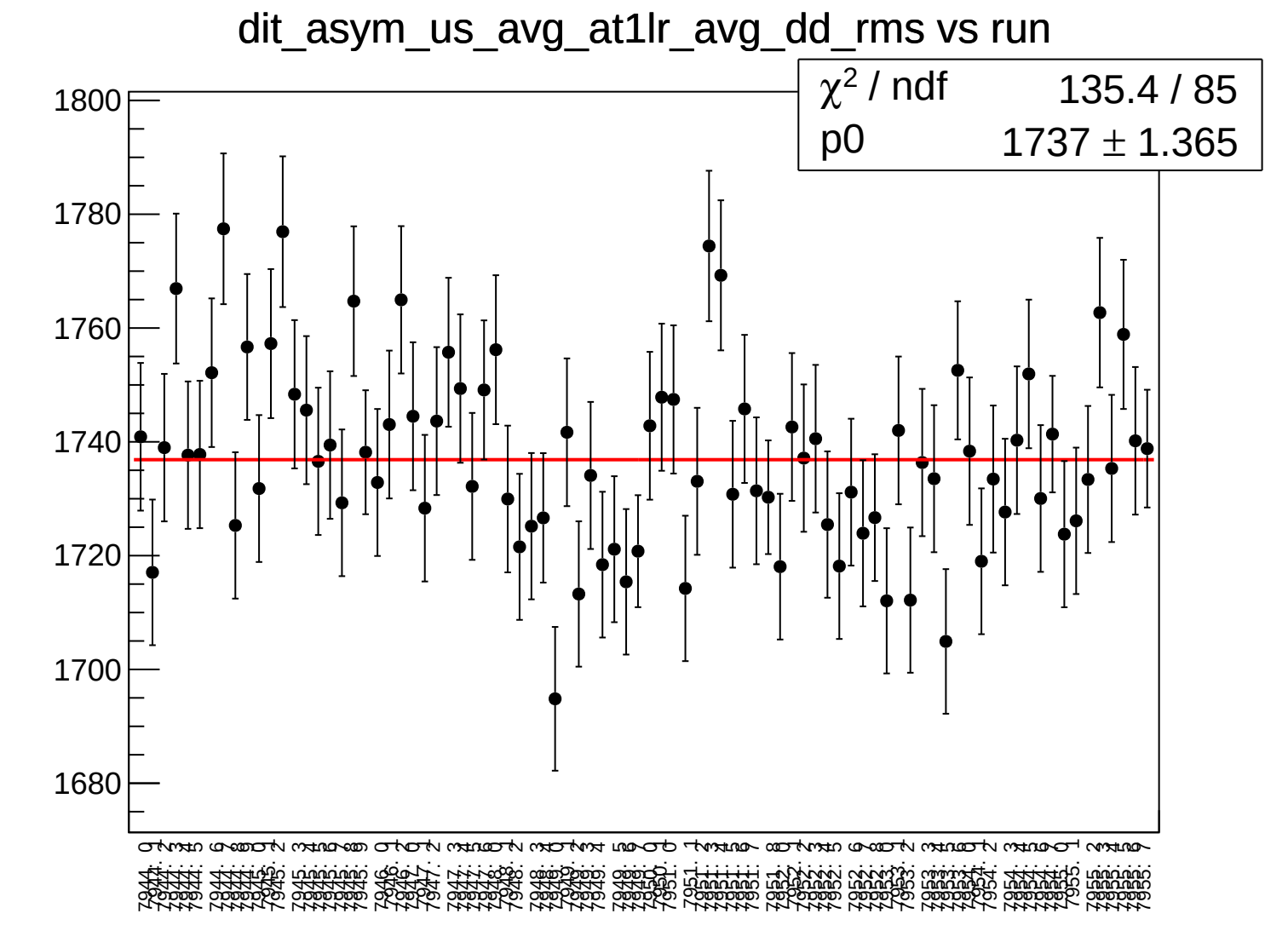

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 119.5 / 85
p0 1731 ± 1.361
1800
1780
1760
1740
1720
1700
1680

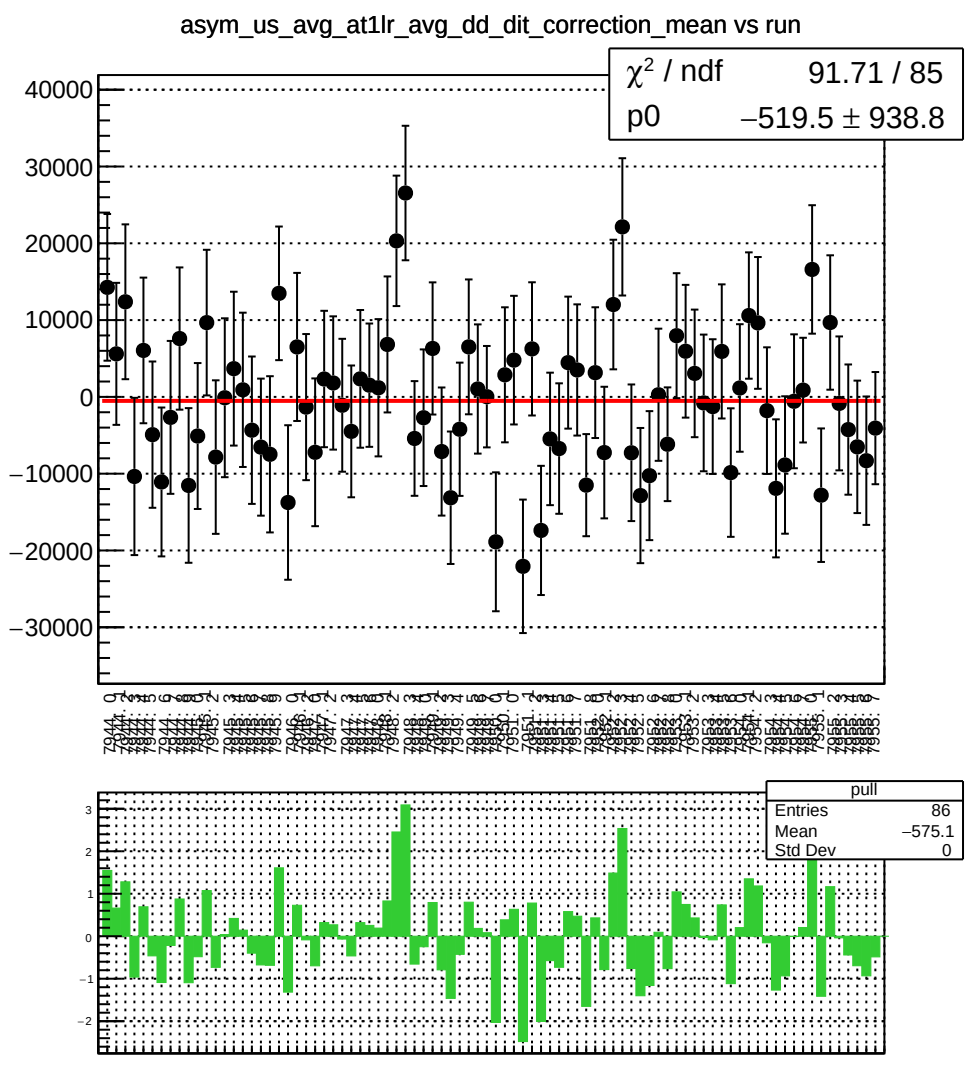

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.37 / 85
p0 −361.7 ± 810.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −150.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01076
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

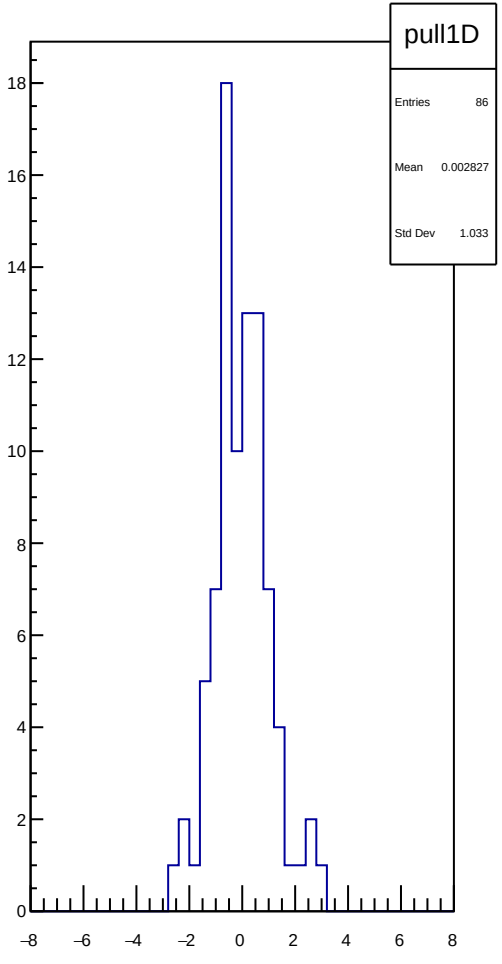

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.706e+04 / 85
p0 725.3 ± 0.573
950
900
850
800
750
700
650
600
550

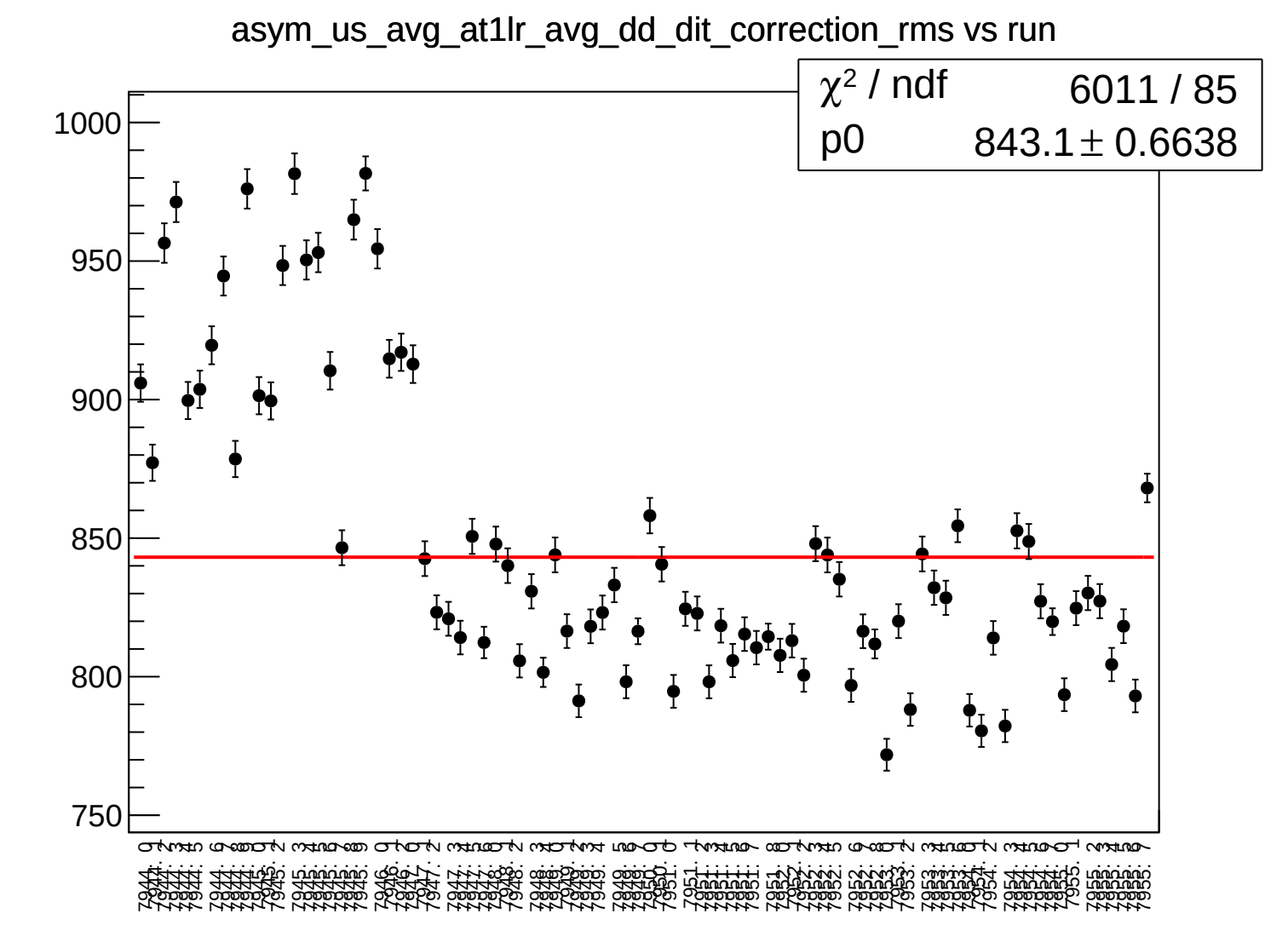

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 52.91 / 85
p0 −512 ± 1930
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 45.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

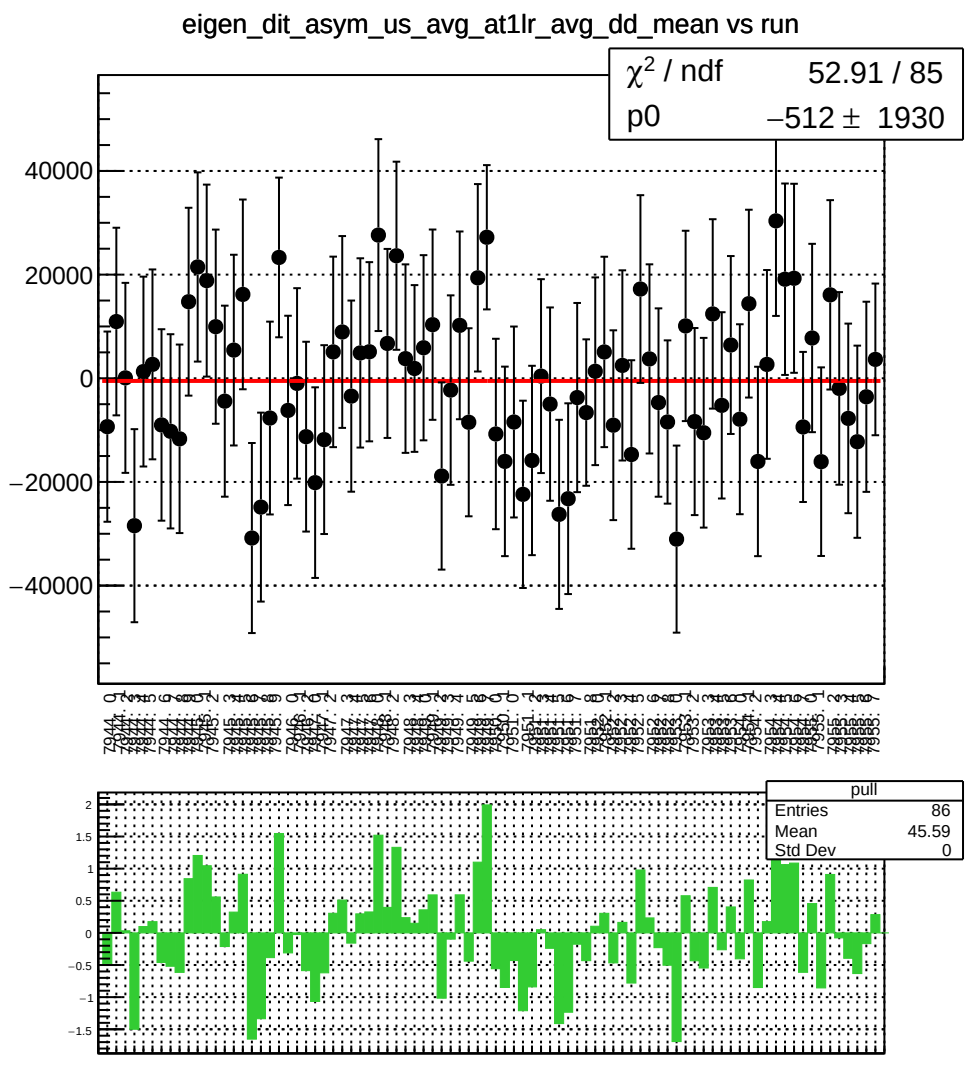

pull1D
Entries 86
Mean −0.008049
Std Dev 0.7843
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

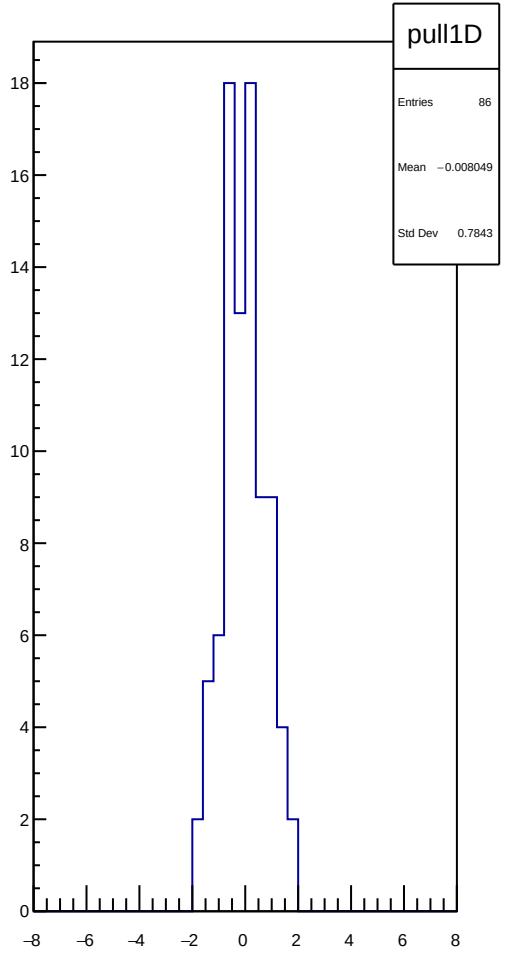

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 135.4 / 85
p0 1737 ± 1.365
1800
1780
1760
1740
1720
1700
1680

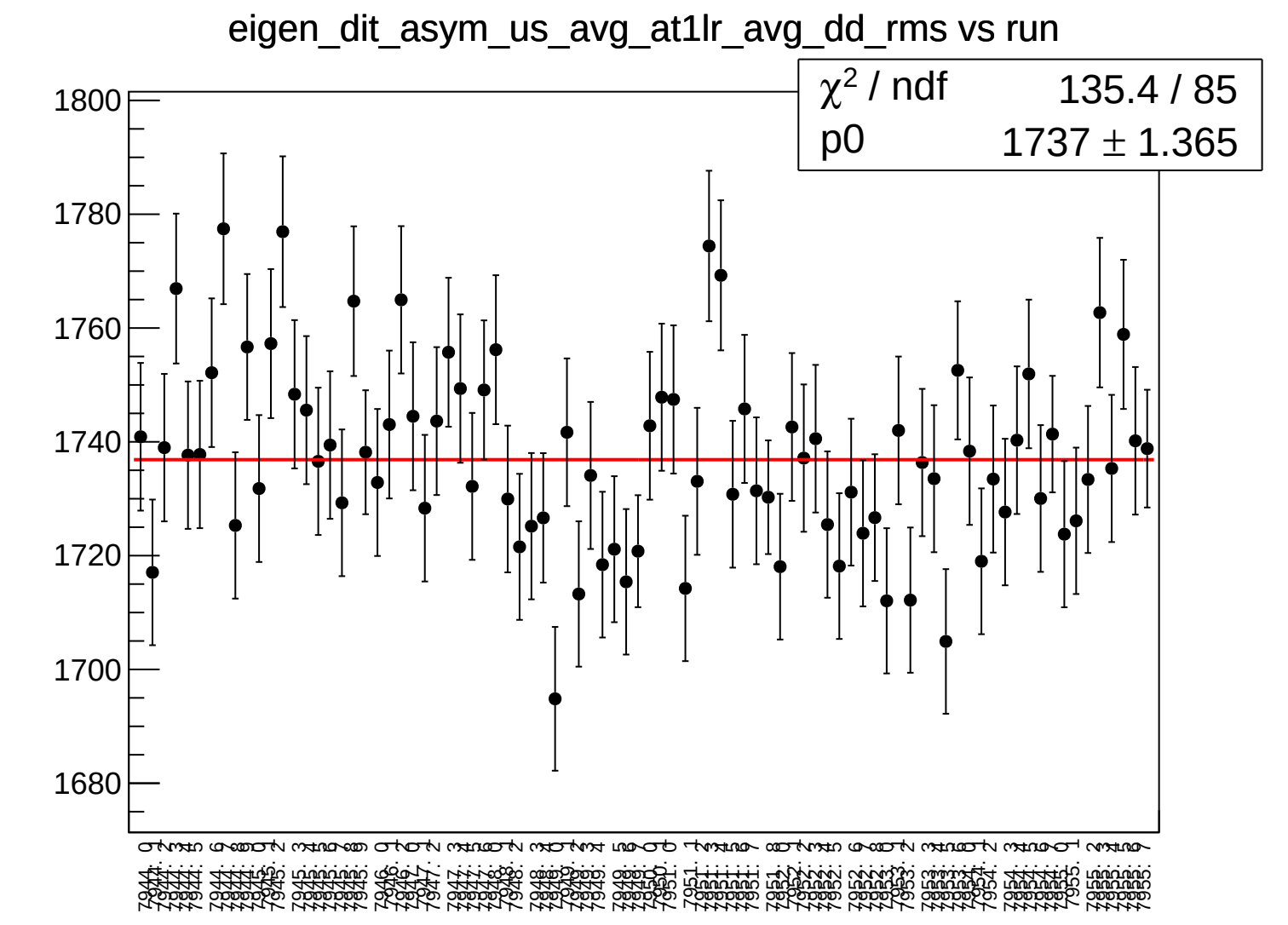

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 91.71 / 85
p0 −519.5 ± 938.8
pull
Entries 86
Mean −575.1
Std Dev 0

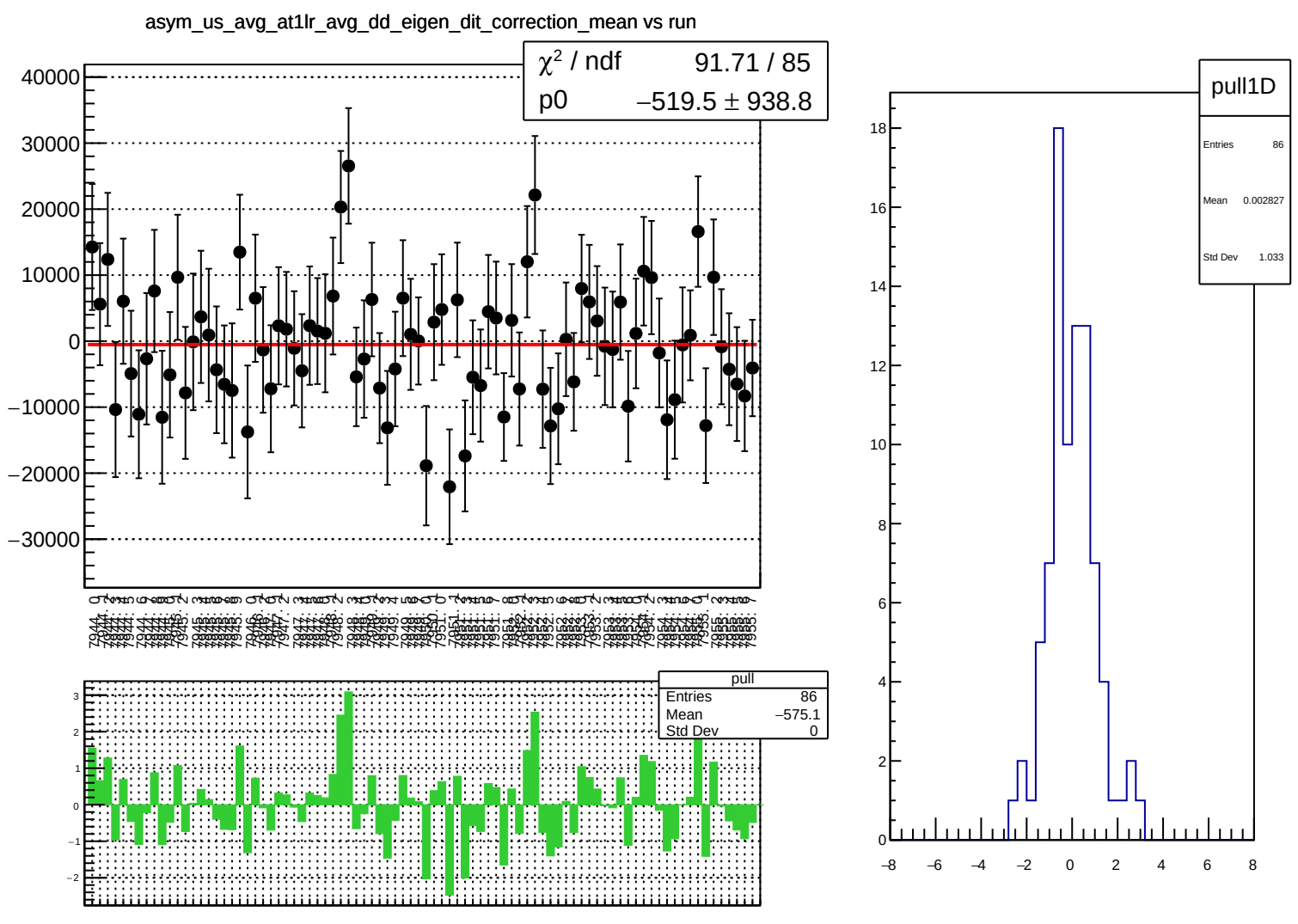

pull1D
Entries 86
Mean 0.002827
Std Dev 1.033

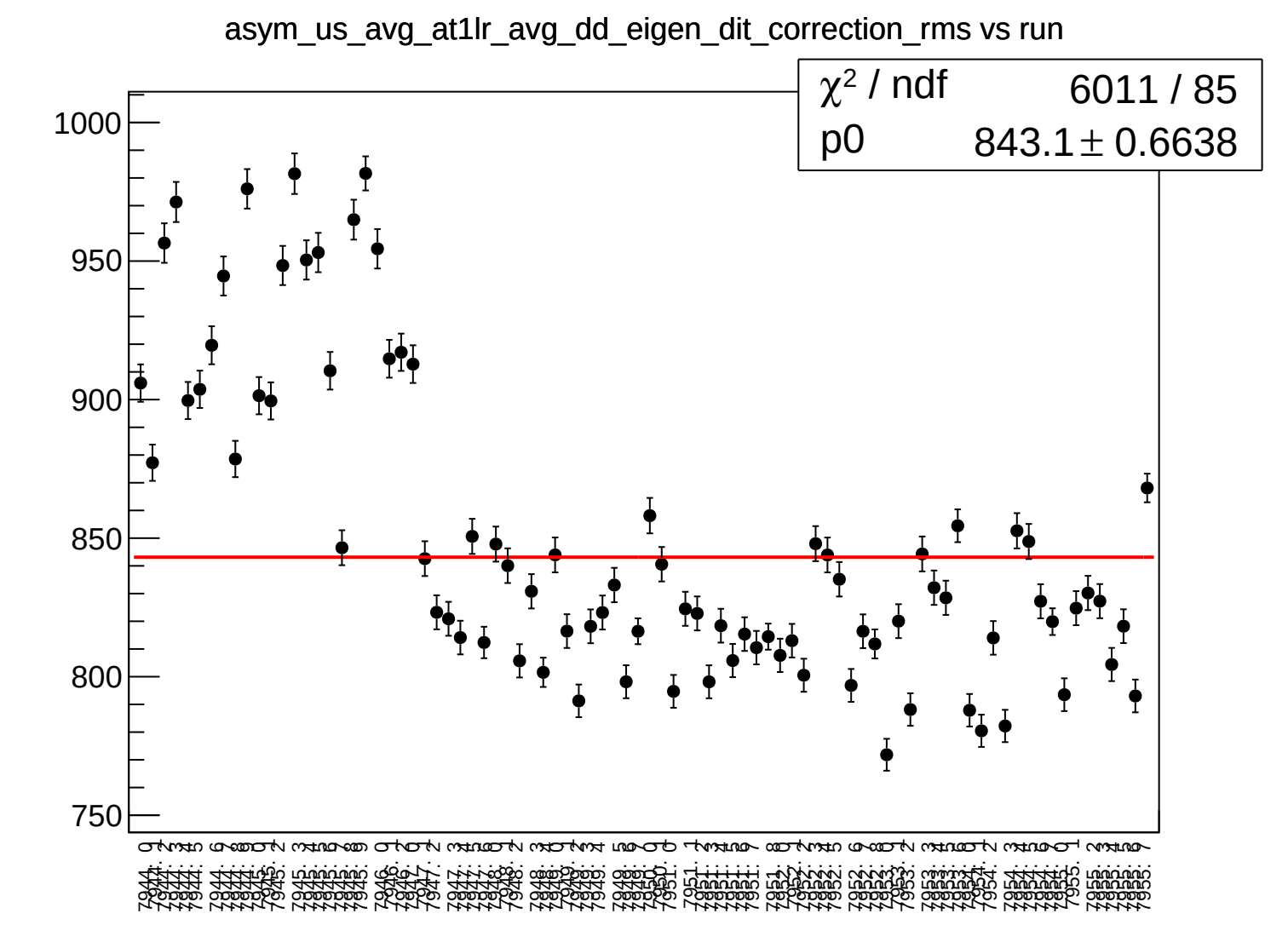

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6011 / 85
p0 843.1 ± 0.6638
1000
950
900
850
800
750

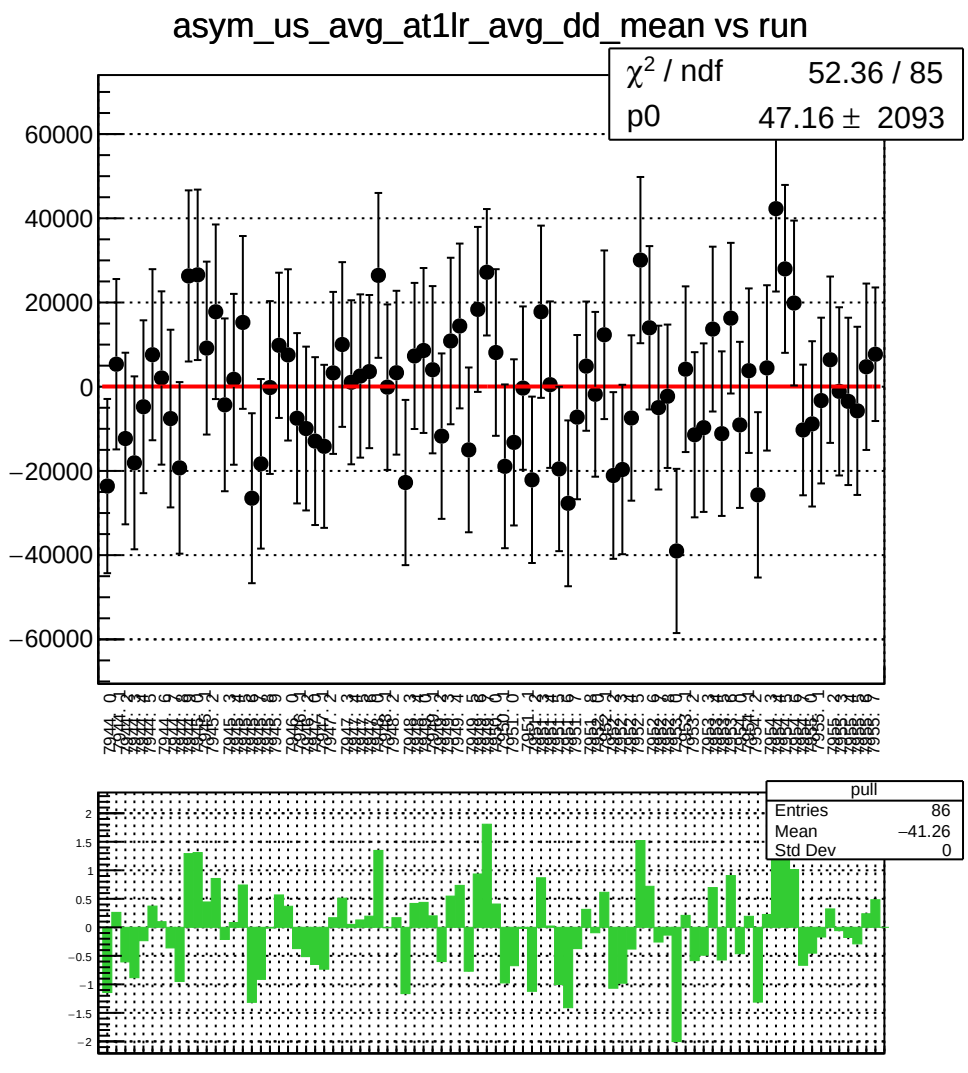

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 52.91 / 85
p0 −512 ± 1930
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 45.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

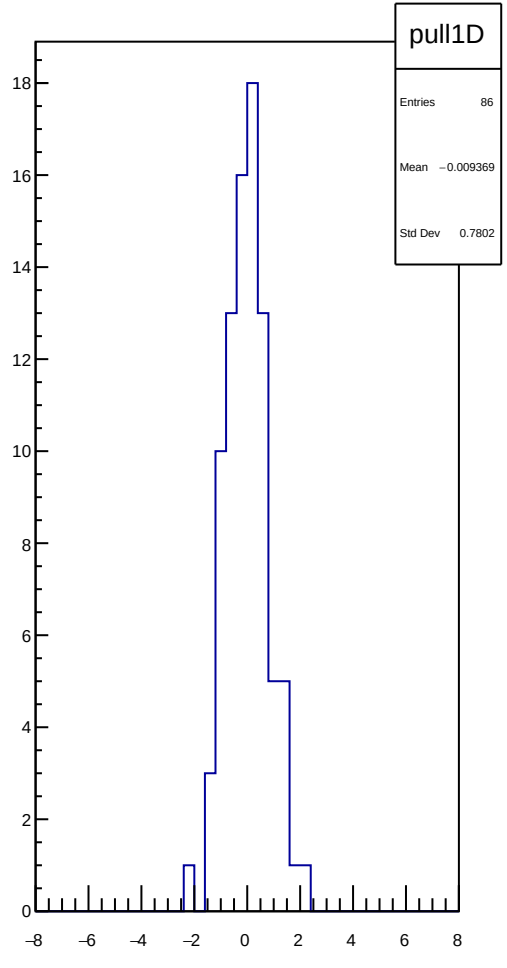

pull1D
Entries 86
Mean −0.008049
Std Dev 0.7843
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

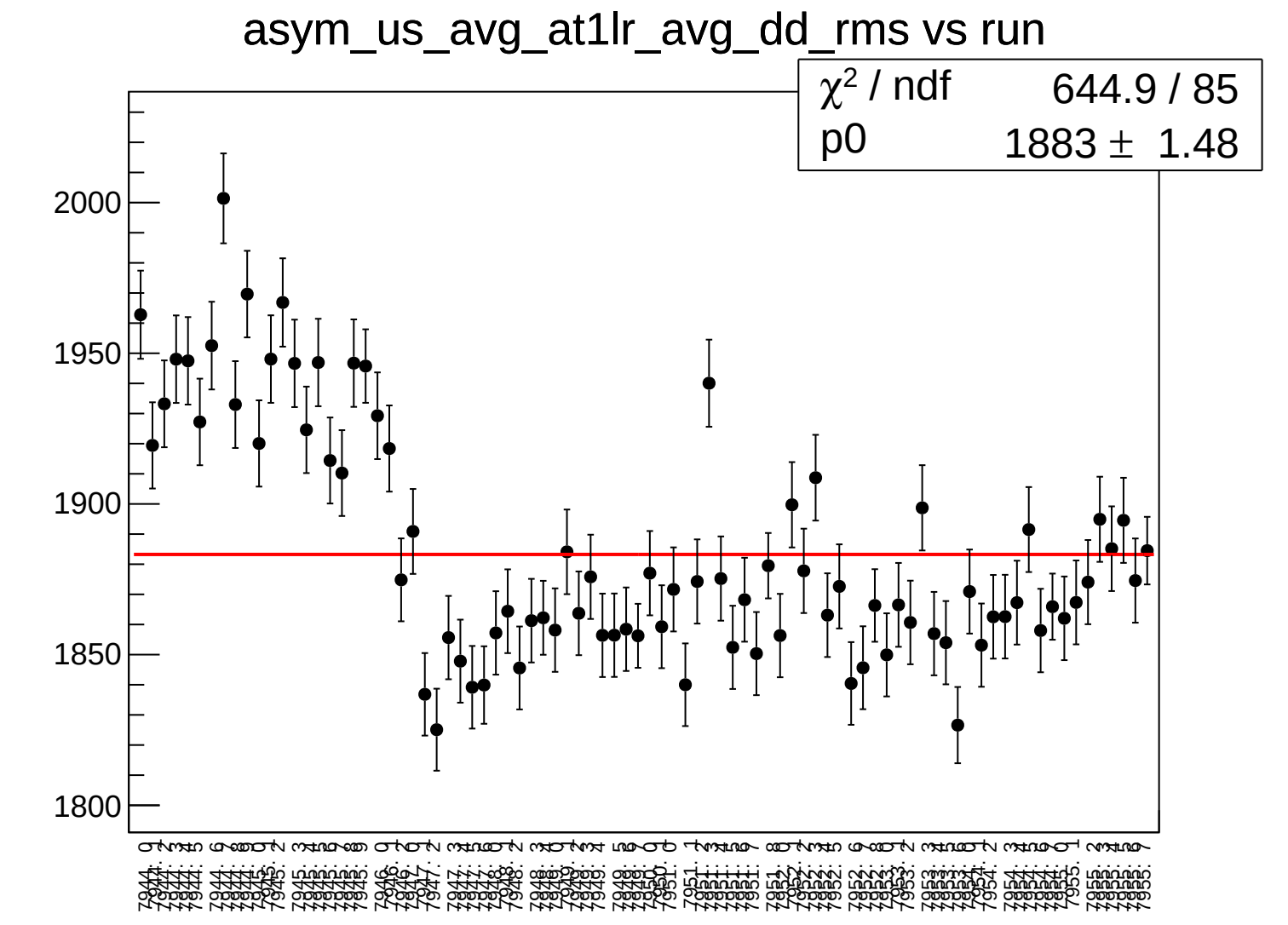

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 135.4 / 85
p0 1737 ± 1.365
1800
1780
1760
1740
1720
1700
1680

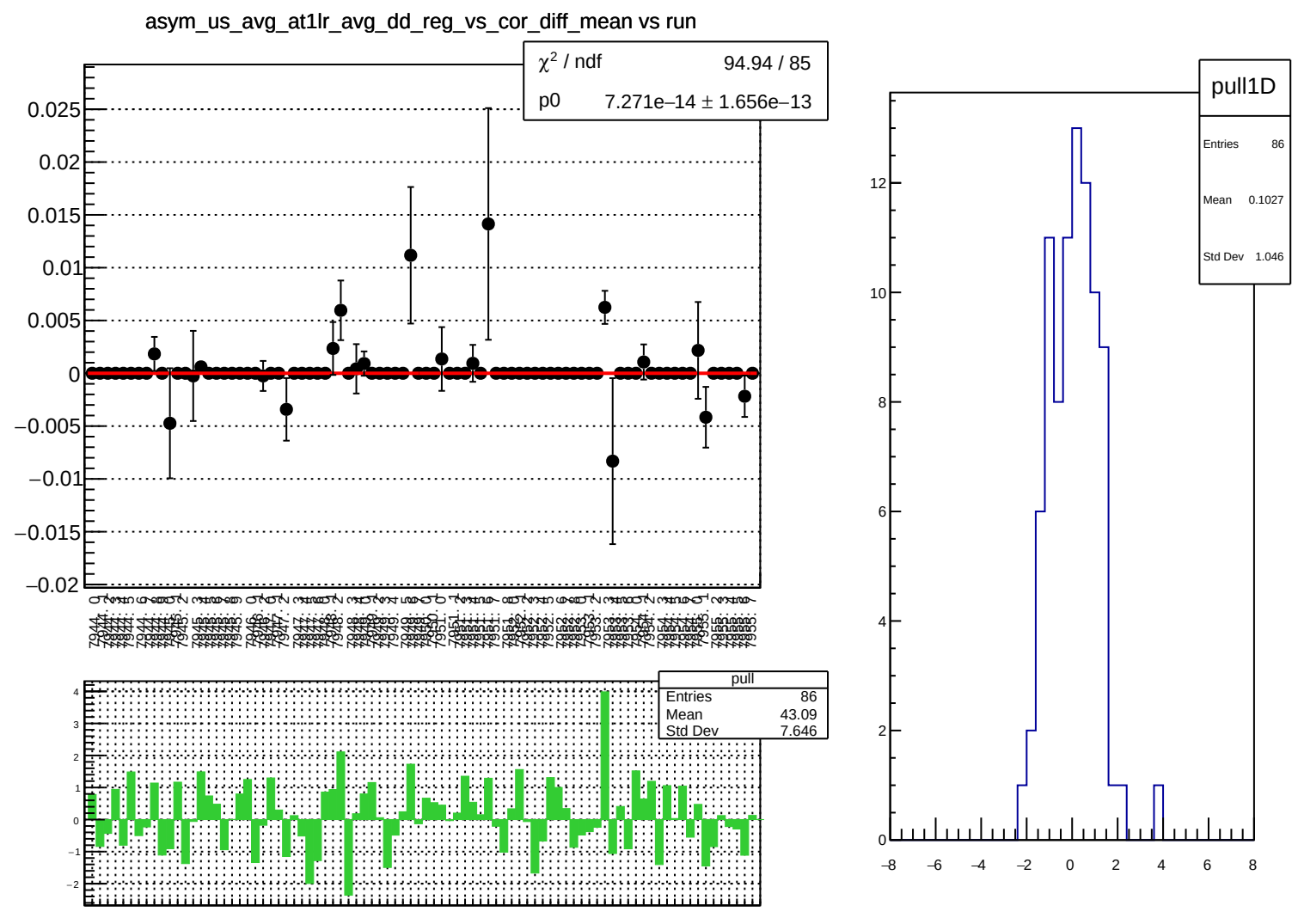

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.71 / 85
p0 −519.5 ± 938.8
pull
Entries 86
Mean −575.1
Std Dev 0
pull1D
Entries 86
Mean 0.002827
Std Dev 1.033

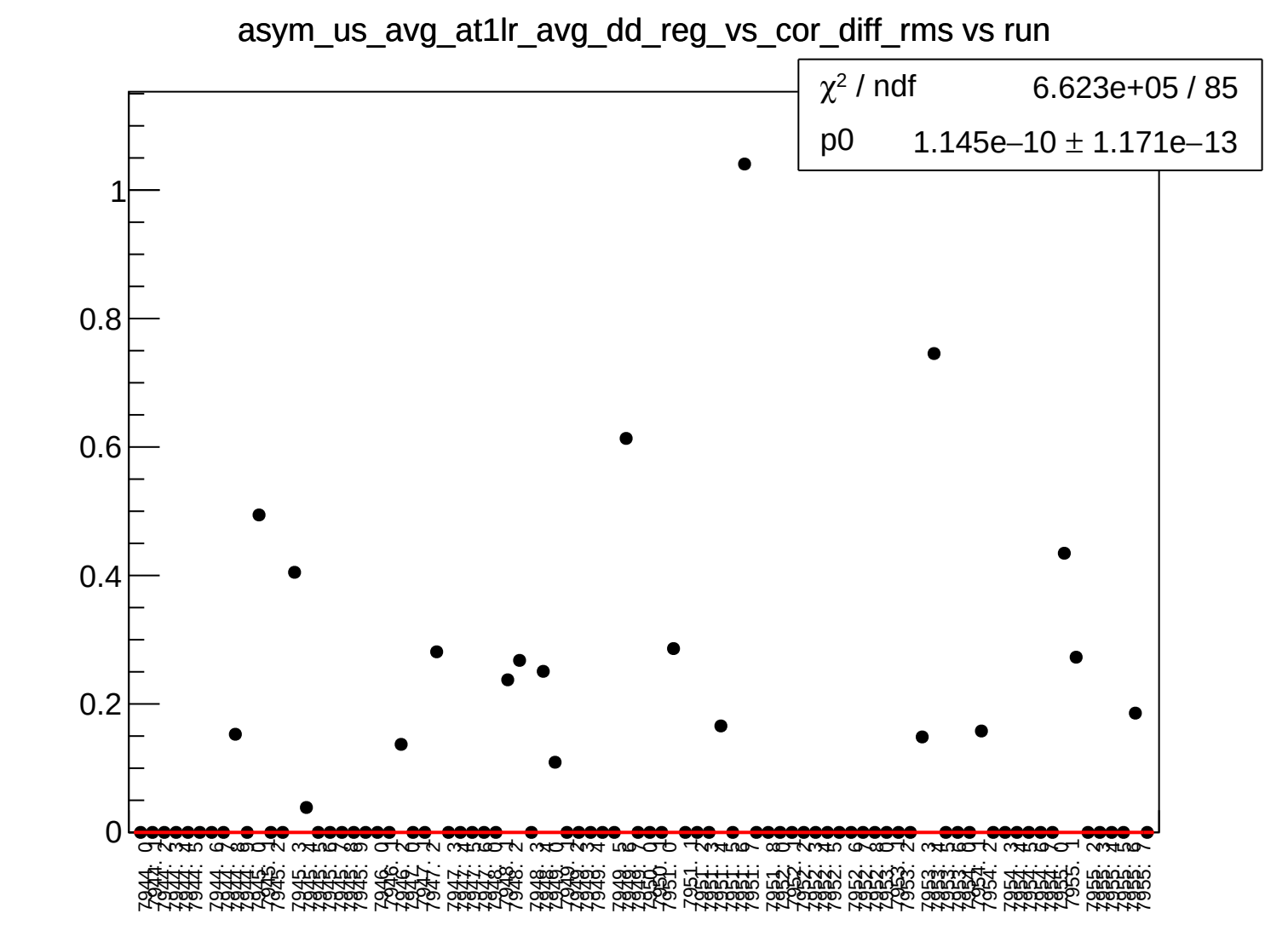

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6011 / 85
p0 843.1 ± 0.6638
1000
950
900
850
800
750

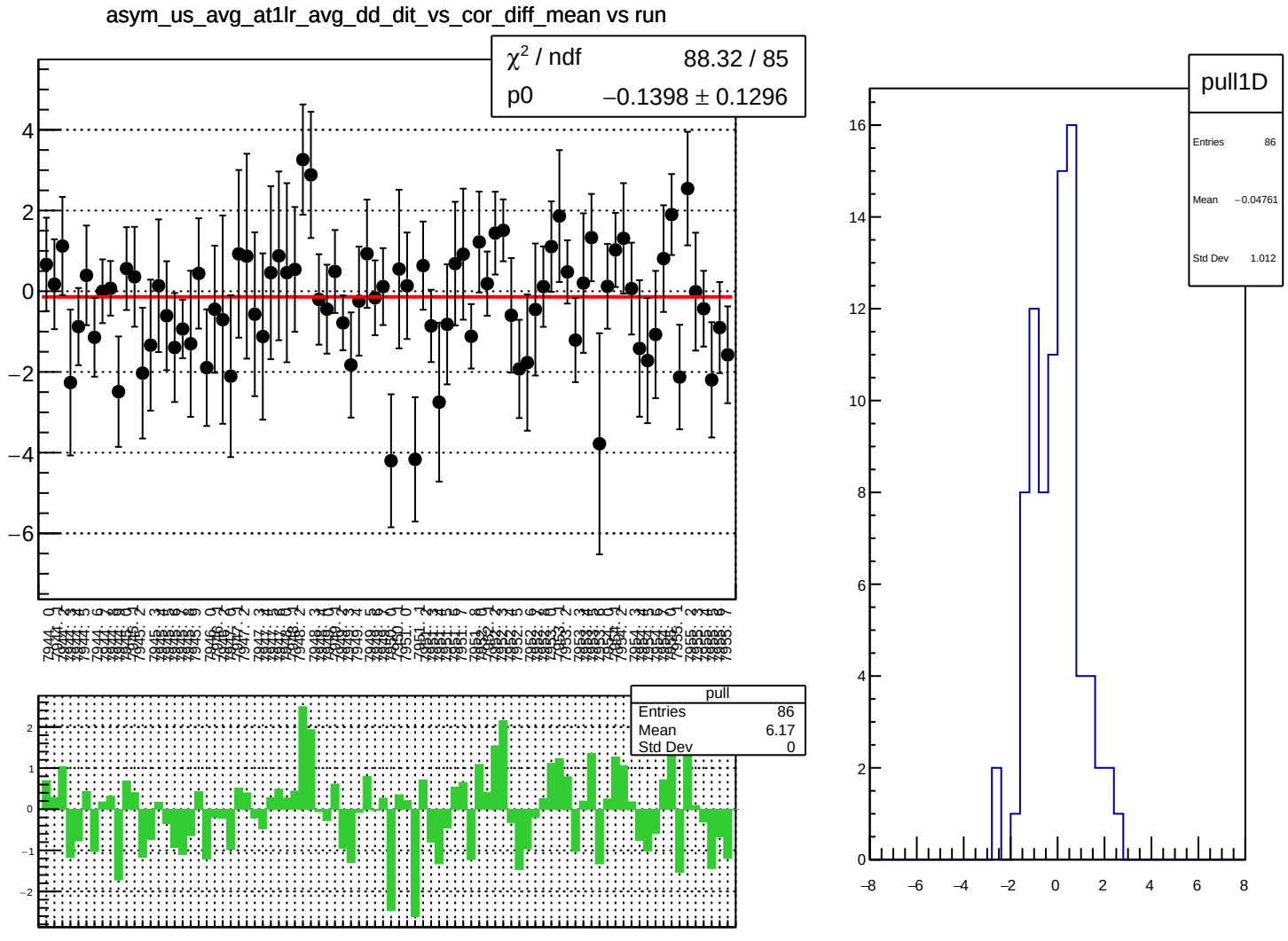

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 52.36 / 85
p0 47.16 ± 2093
pull
Entries 86
Mean −41.26
Std Dev 0

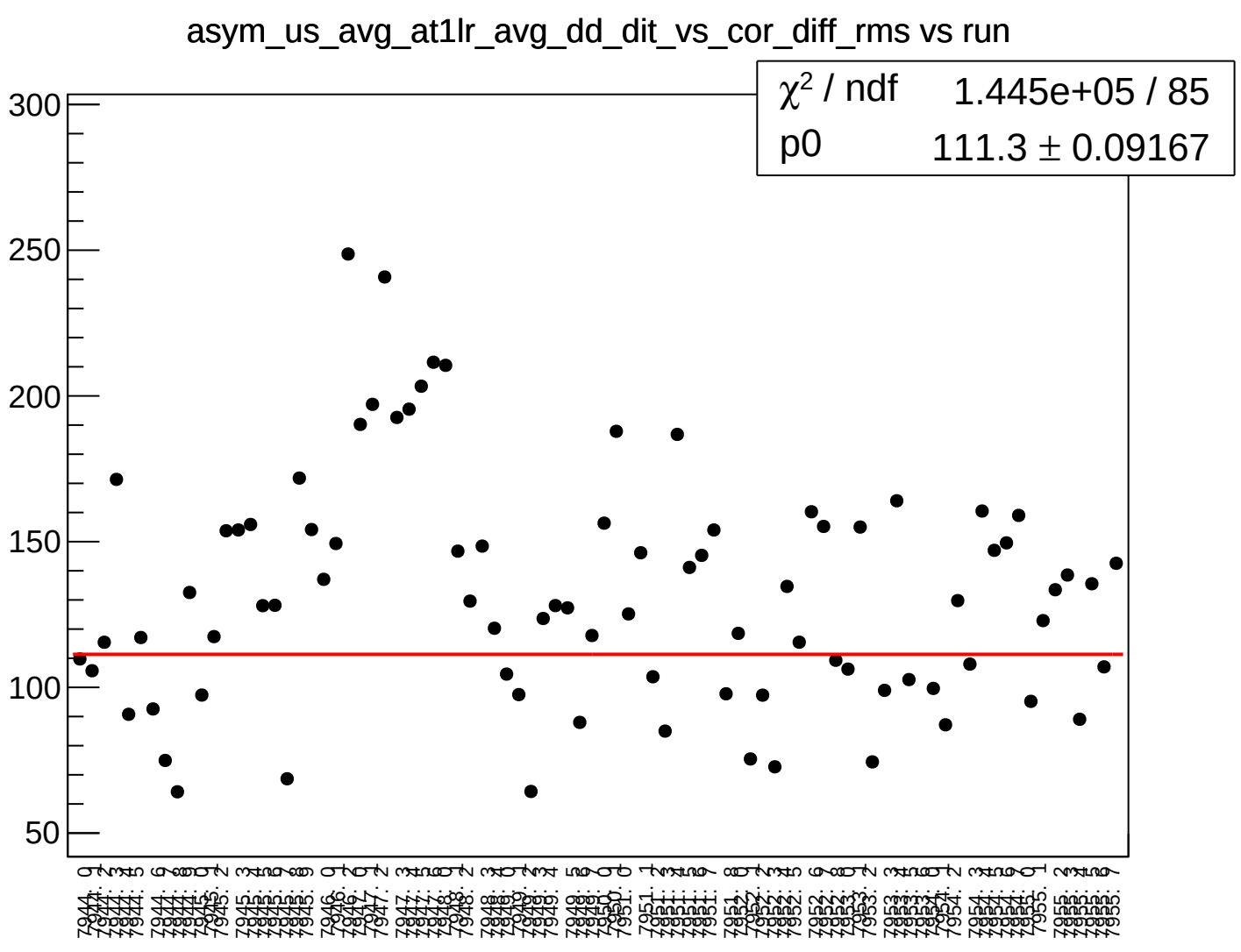

pull1D
Entries 86
Mean −0.009369
Std Dev 0.7802

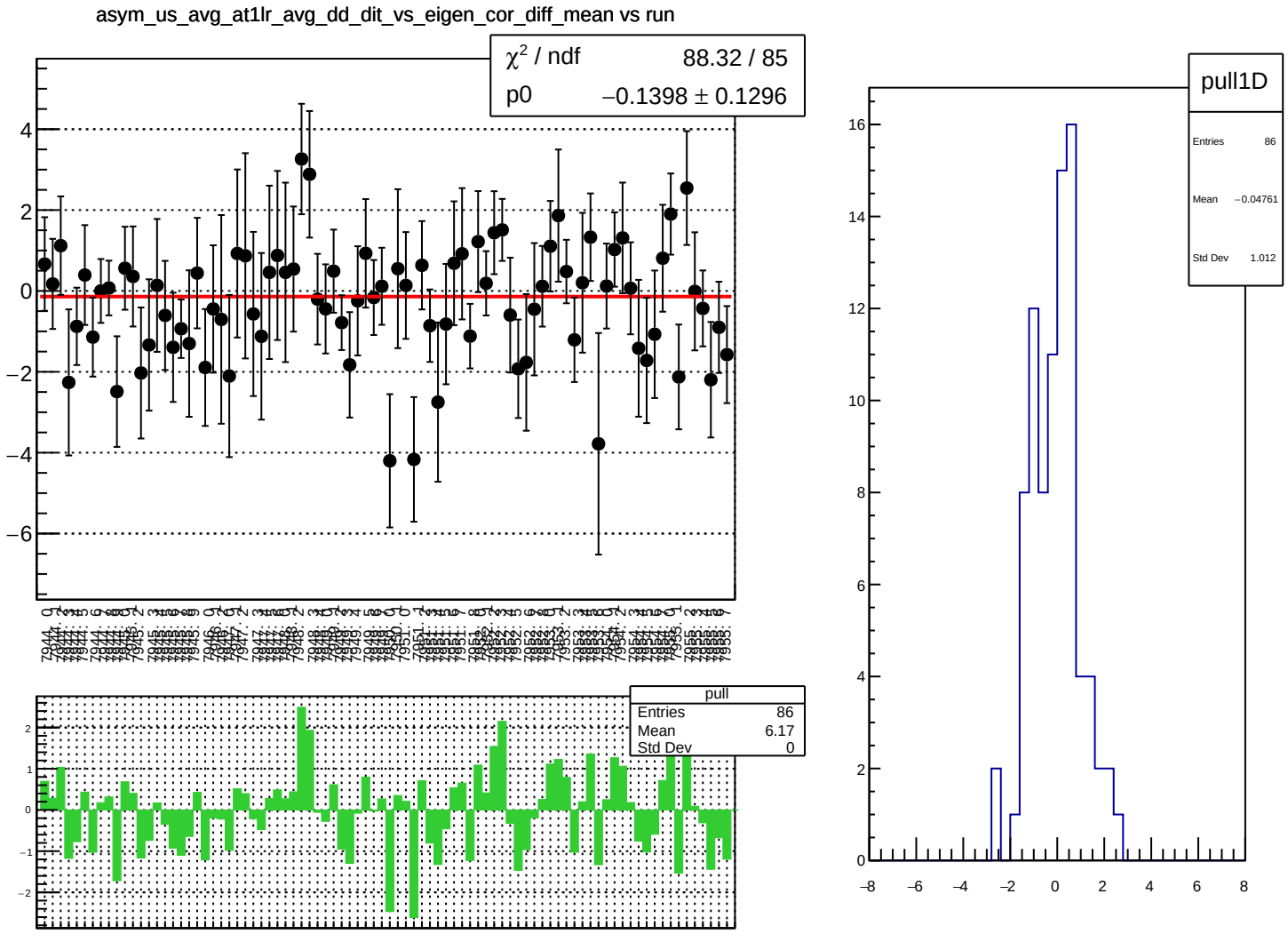

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 644.9 / 85
p0 1883 ± 1.48
2000
1950
1900
1850
1800

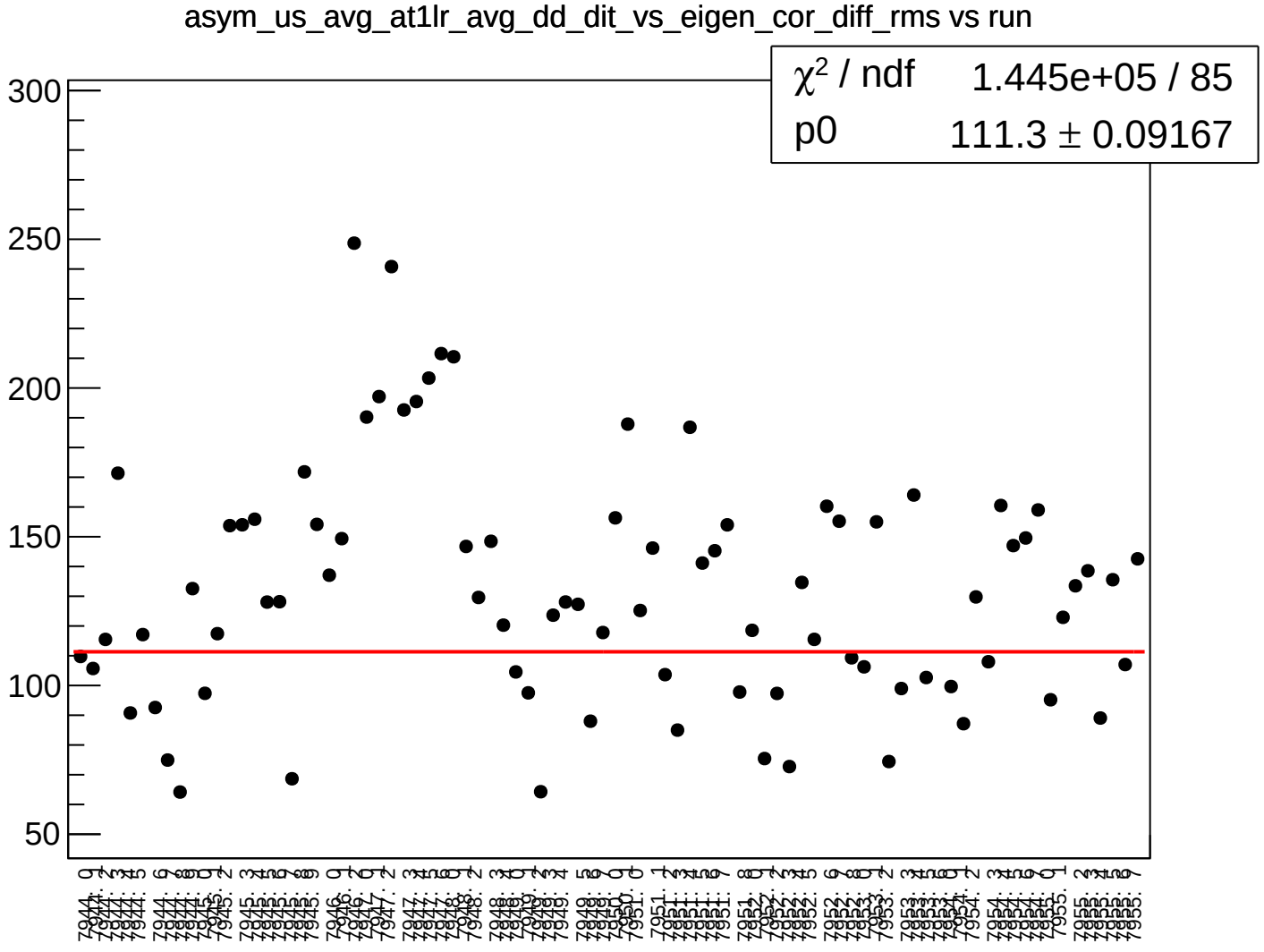

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.94 / 85
p0 7.271e−14 ± 1.656e−13
pull
Entries 86
Mean 43.09
Std Dev 7.646
pull1D
Entries 86
Mean 0.1027
Std Dev 1.046

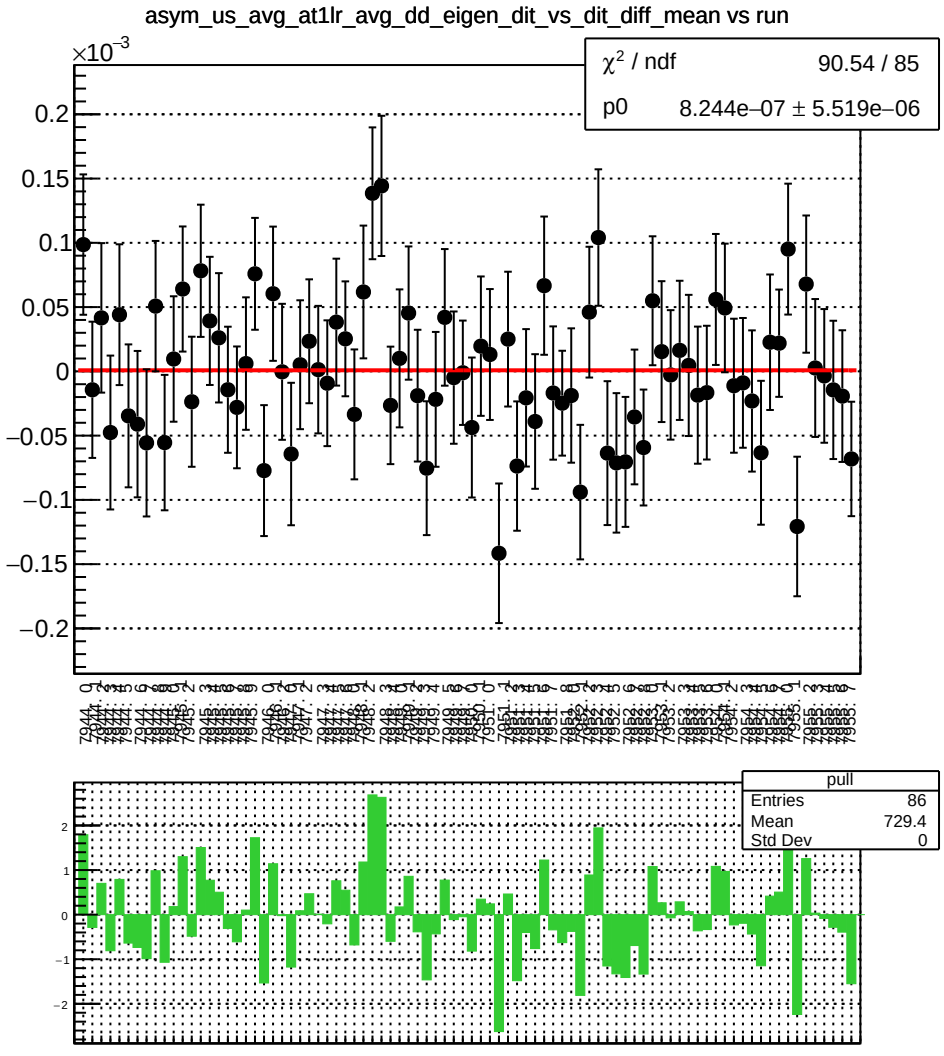

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.623e+05 / 85
p0 1.145e−10 ± 1.171e−13
1
0.8
0.6
0.4
0.2
0

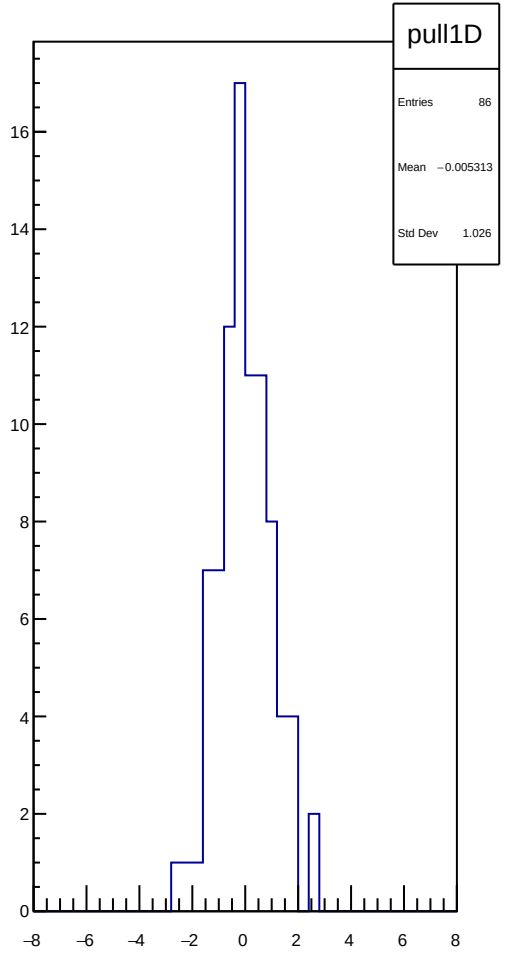

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.32 / 85
p0 −0.1398 ± 0.1296
pull
Entries 86
Mean 6.17
Std Dev 0
pull1D
Entries 86
Mean −0.04761
Std Dev 1.012

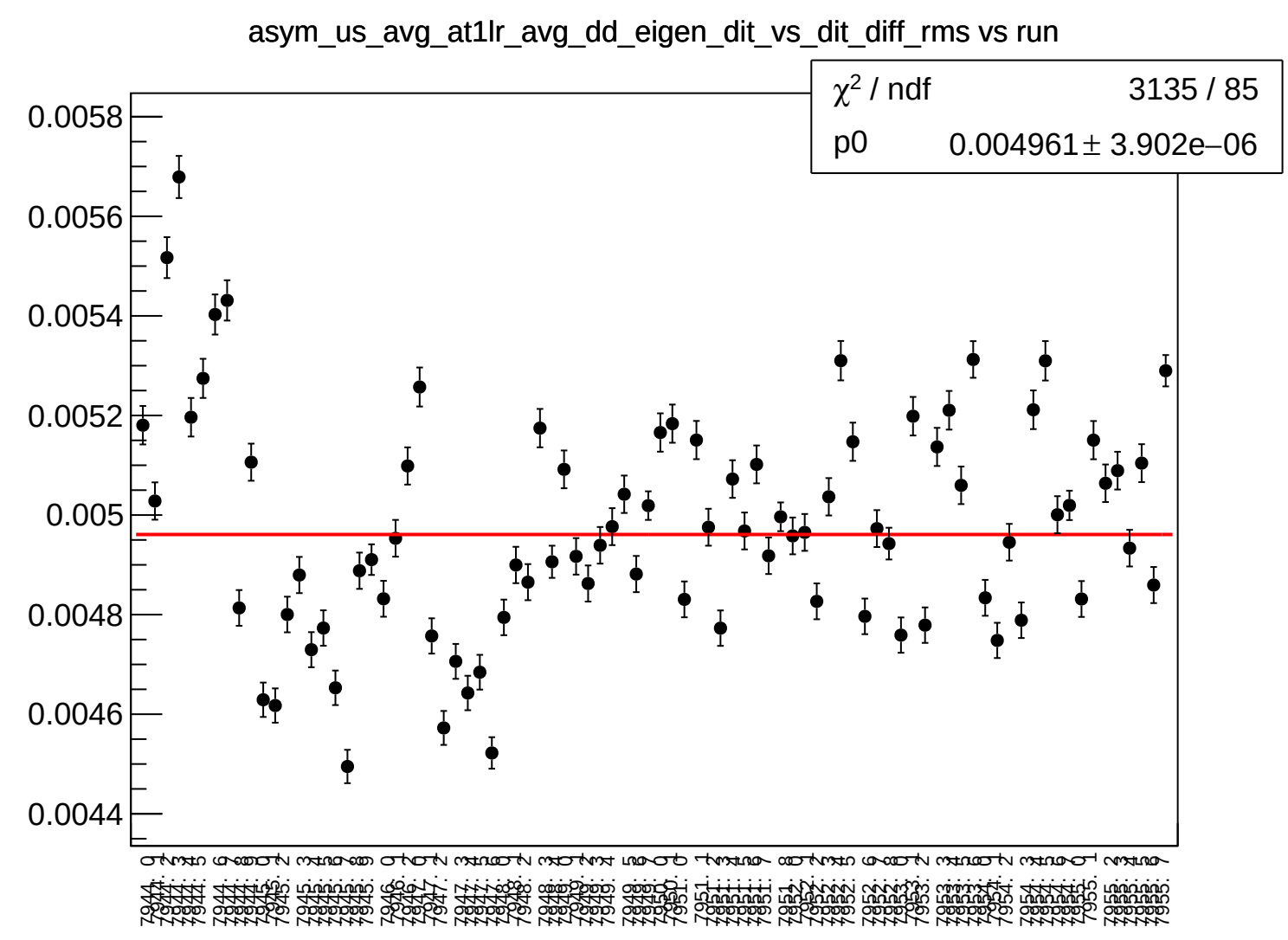

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.445e+05 / 85
p0 111.3 ± 0.09167
300
250
200
150
100
50

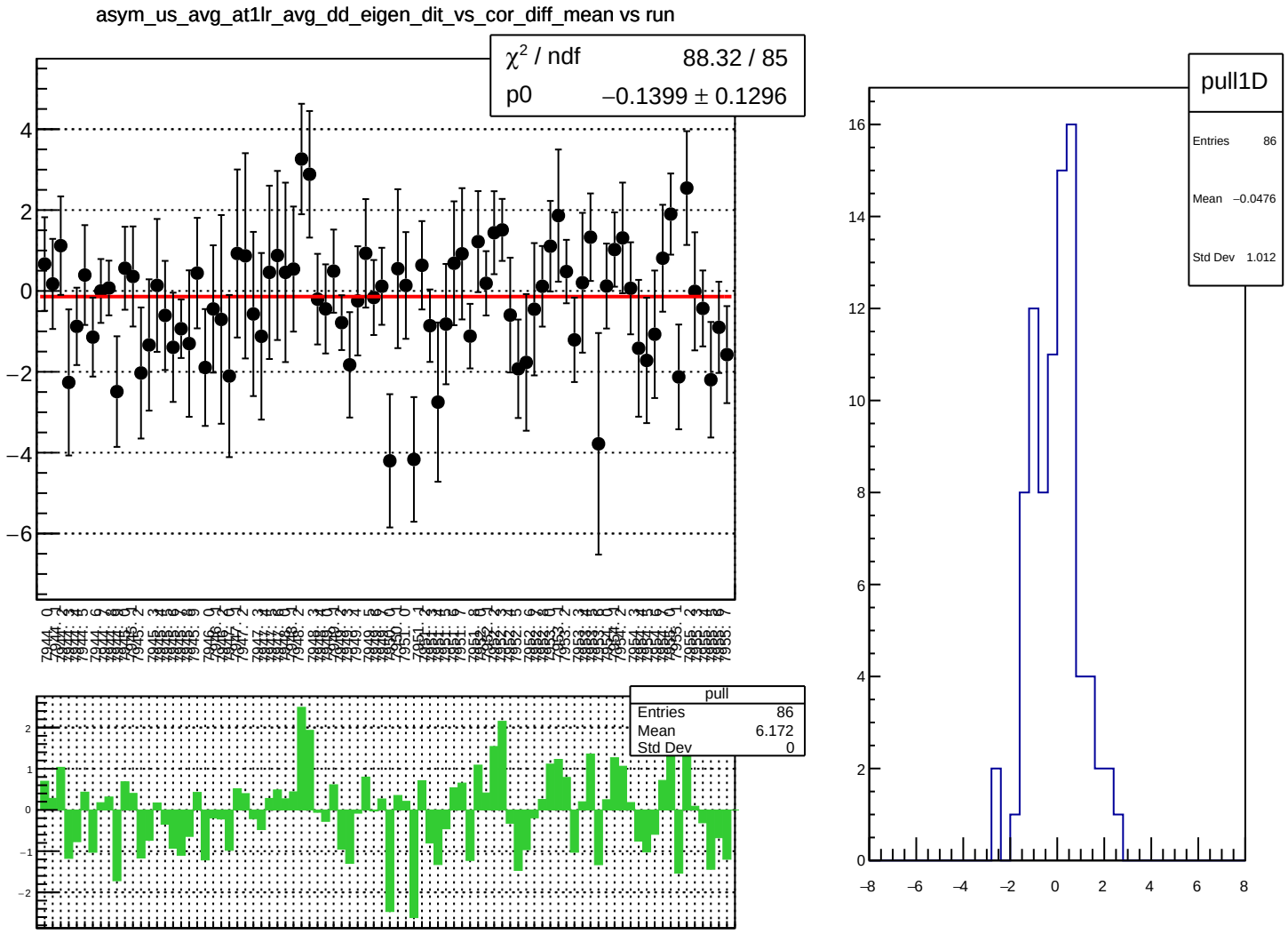

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.32 / 85
p0 −0.1398 ± 0.1296
pull
Entries 86
Mean 6.17
Std Dev 0
pull1D
Entries 86
Mean −0.04761
Std Dev 1.012

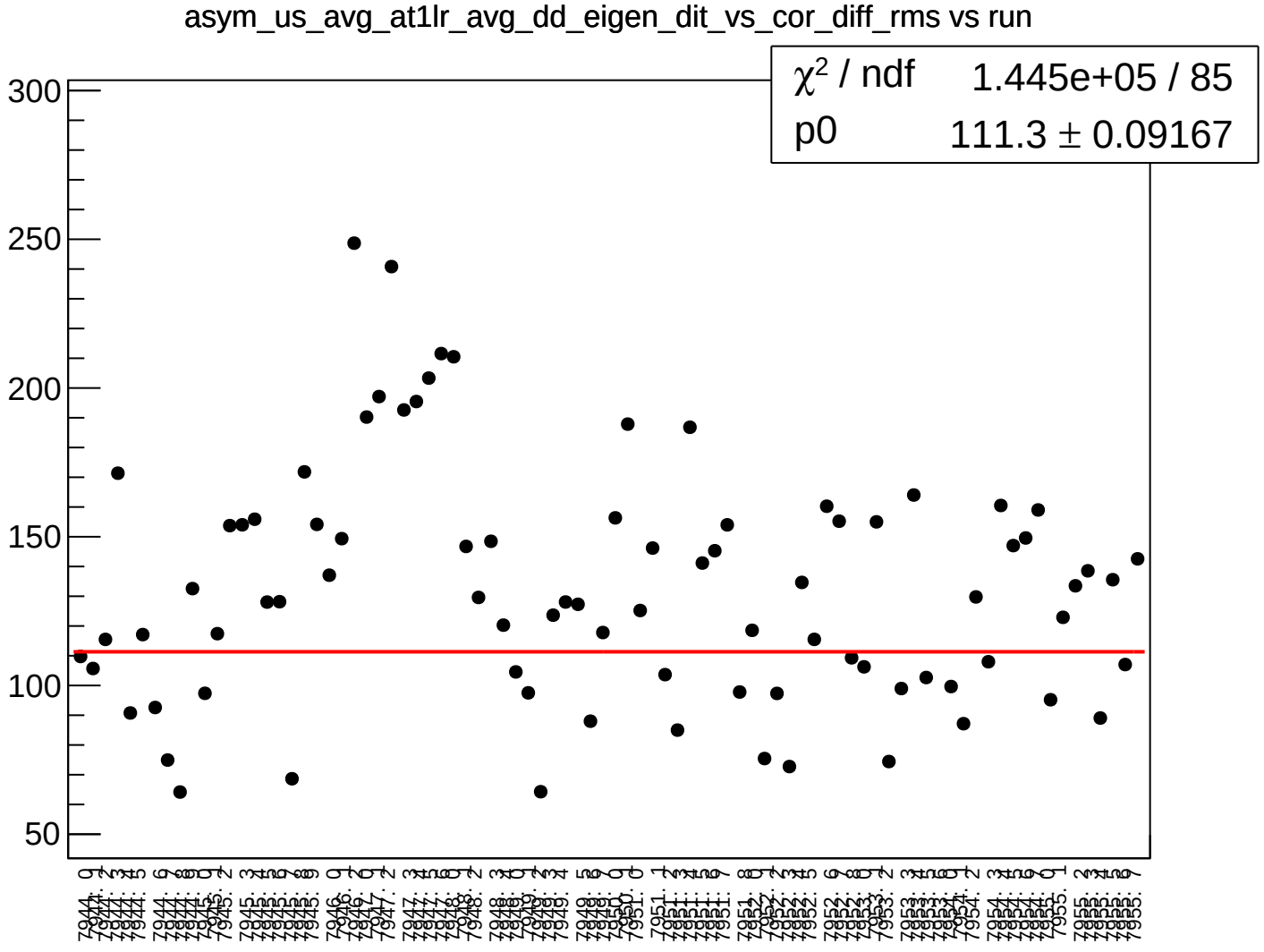

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.445e+05 / 85
p0 111.3 ± 0.09167
300
250
200
150
100
50

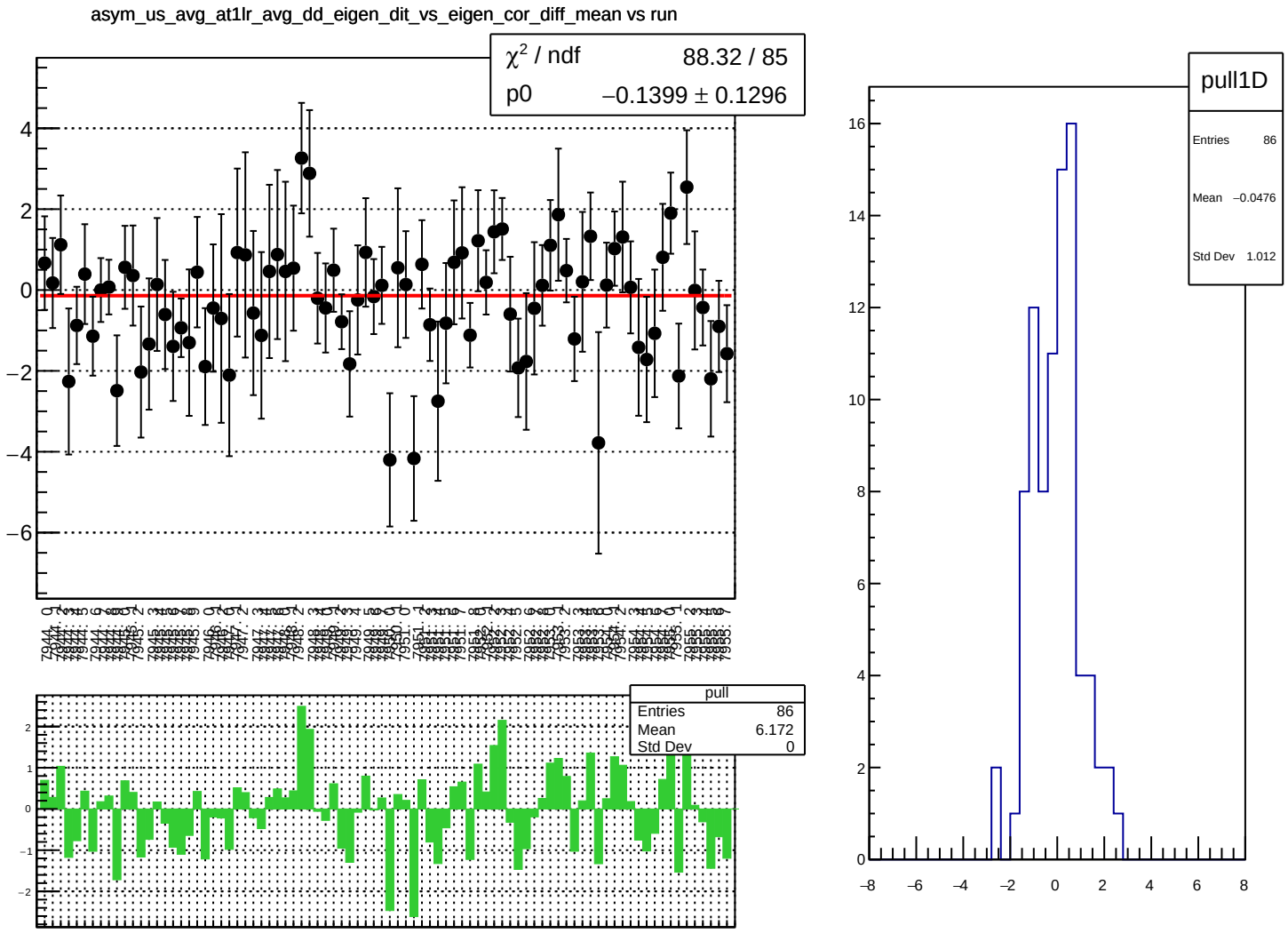

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.54 / 85
p0 8.244e−07 ± 5.519e−06
pull
Entries 86
Mean 729.4
Std Dev 0

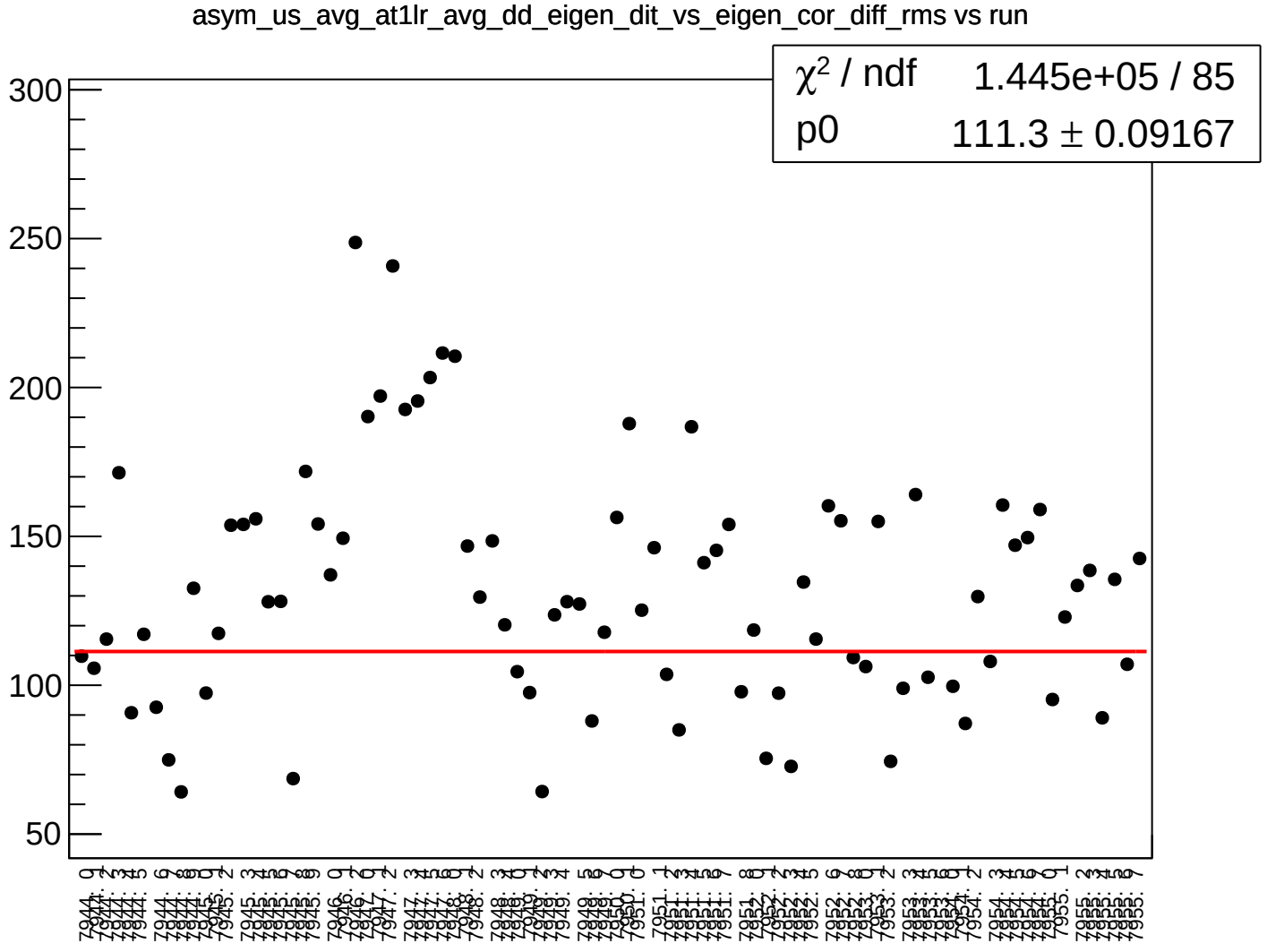

pull1D
Entries 86
Mean −0.005313
Std Dev 1.026

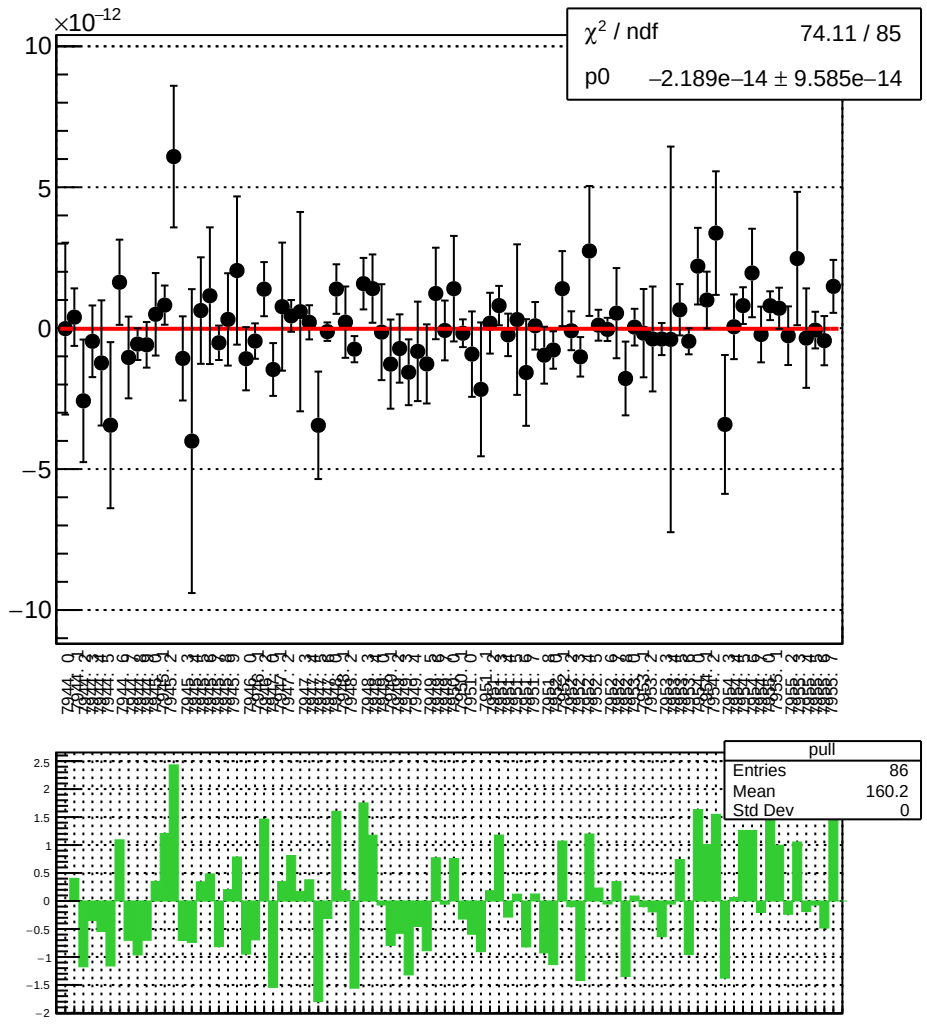

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3135 / 85
p0 0.004961 ± 3.902e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

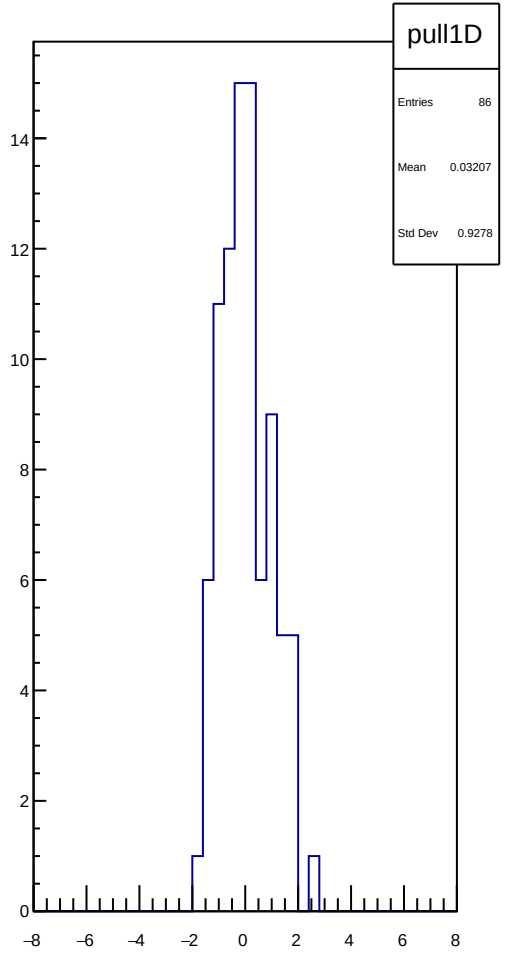

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.32 / 85
p0 −0.1399 ± 0.1296
pull
Entries 86
Mean 6.172
Std Dev 0
pull1D
Entries 86
Mean −0.0476
Std Dev 1.012

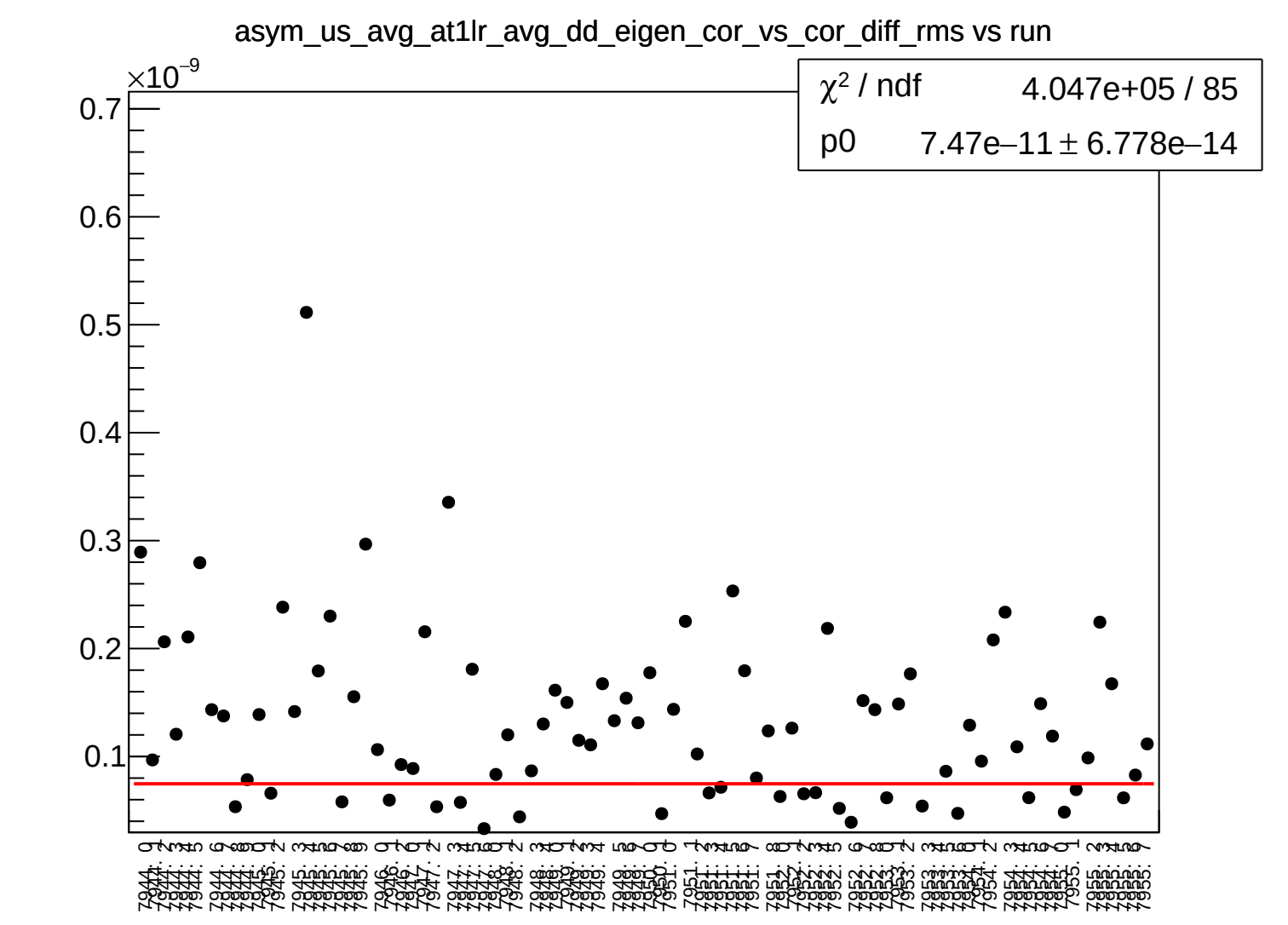

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.445e+05 / 85
p0 111.3 ± 0.09167
300
250
200
150
100
50

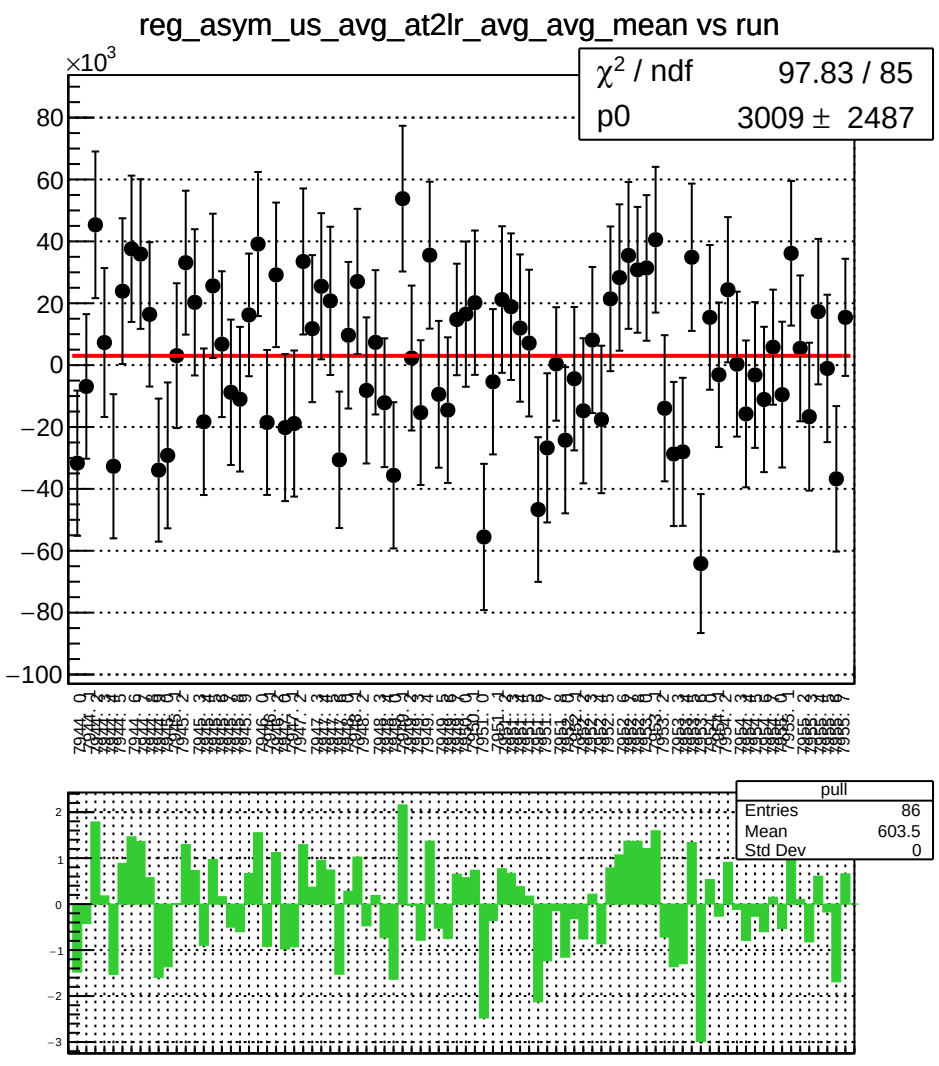

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.32 / 85
p0 −0.1399 ± 0.1296
pull
Entries 86
Mean 6.172
Std Dev 0
pull1D
Entries 86
Mean −0.0476
Std Dev 1.012

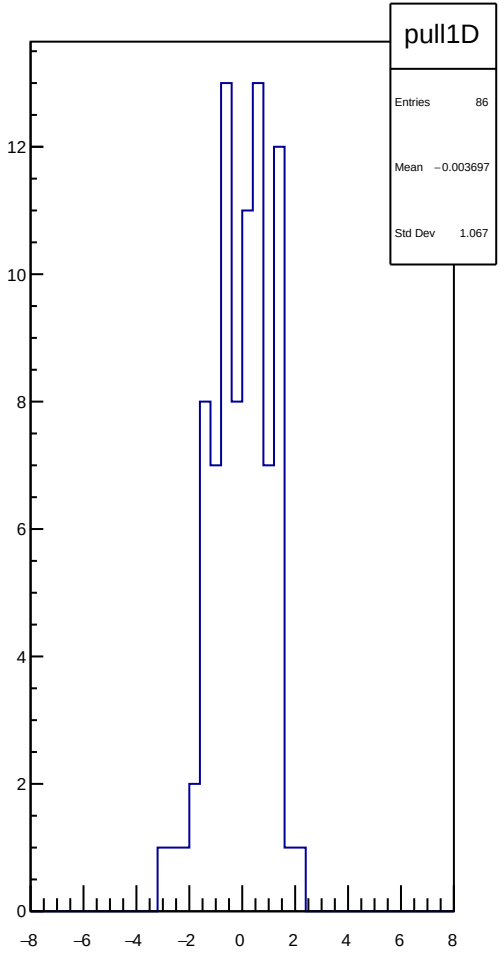

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.445e+05 / 85
p0 111.3 ± 0.09167
300
250
200
150
100
50

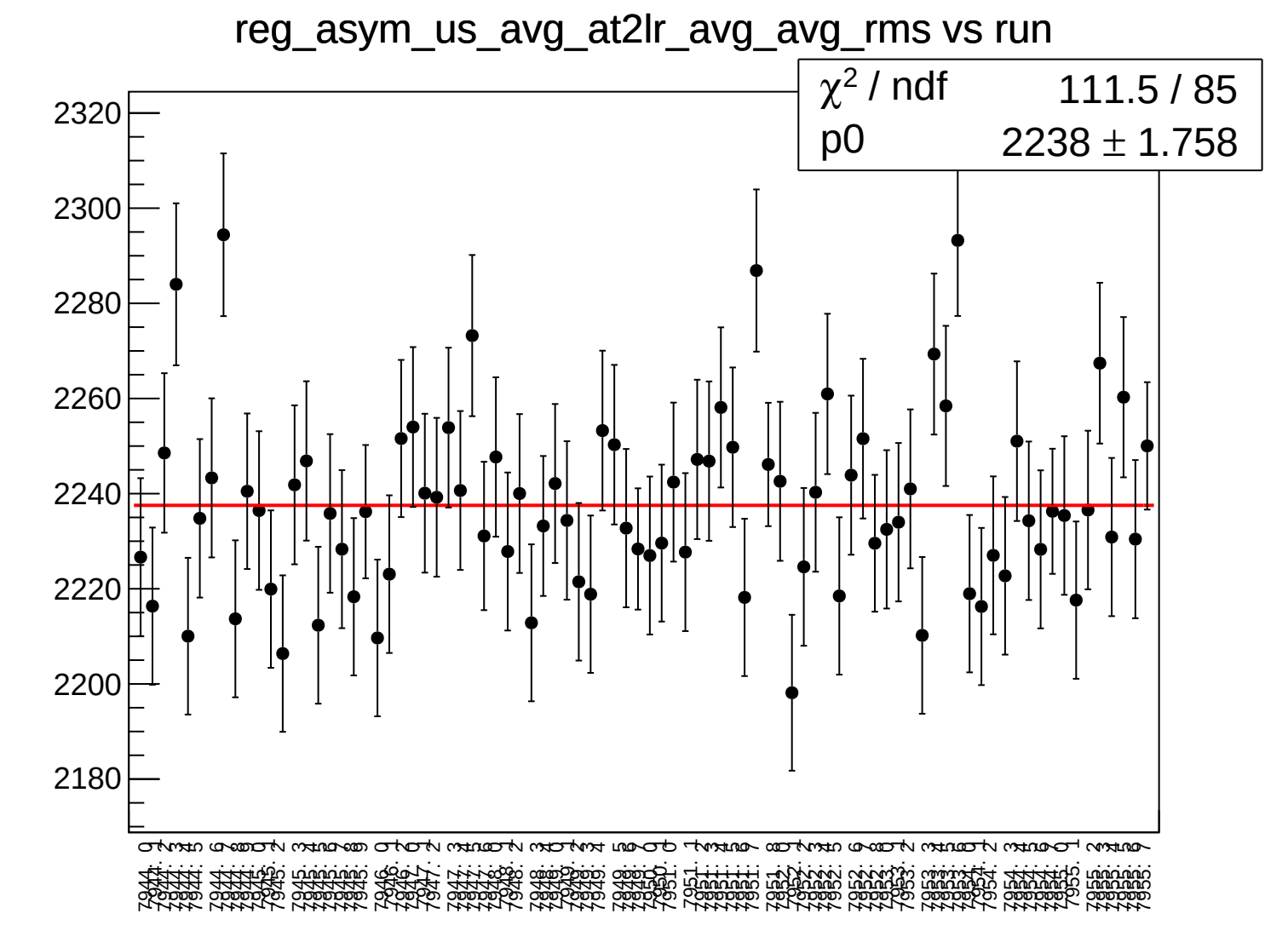

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.11 / 85
p0 −2.189e−14 ± 9.585e−14
pull
Entries 86
Mean 160.2
Std Dev 0

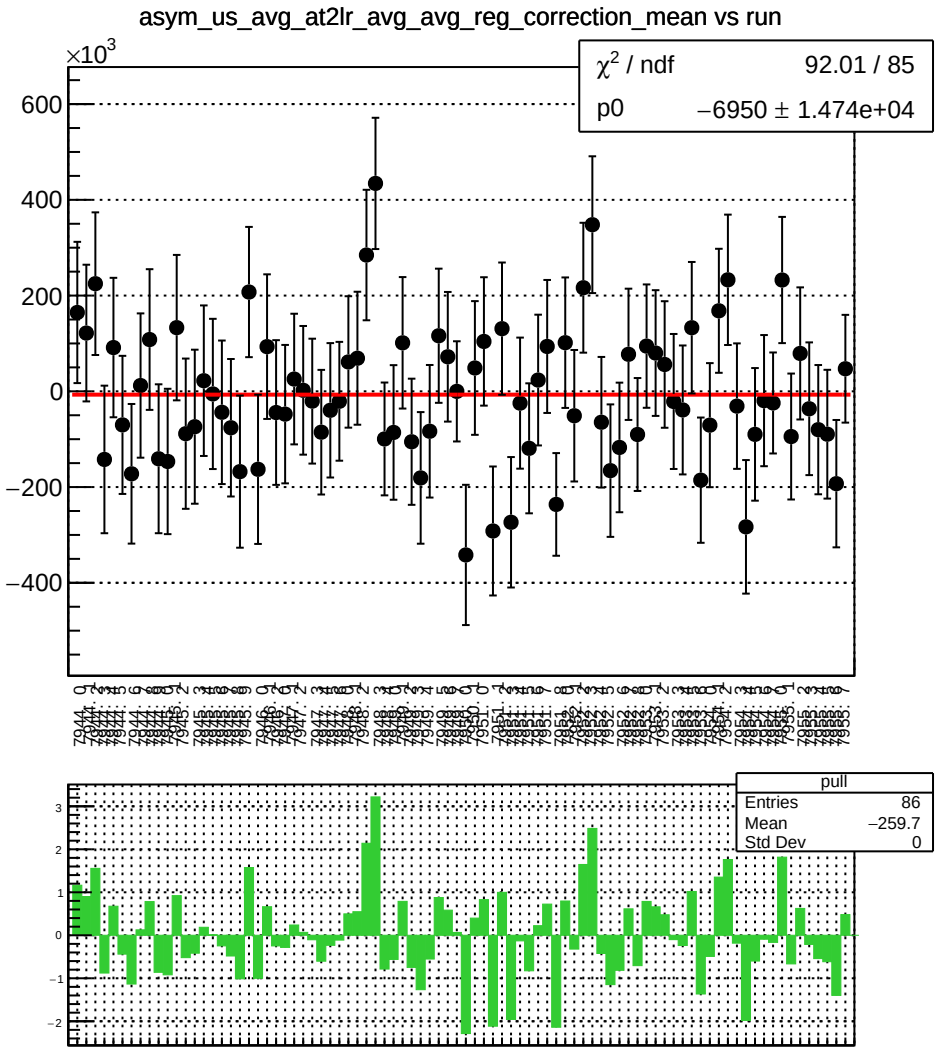

pull1D
Entries 86
Mean 0.03207
Std Dev 0.9278

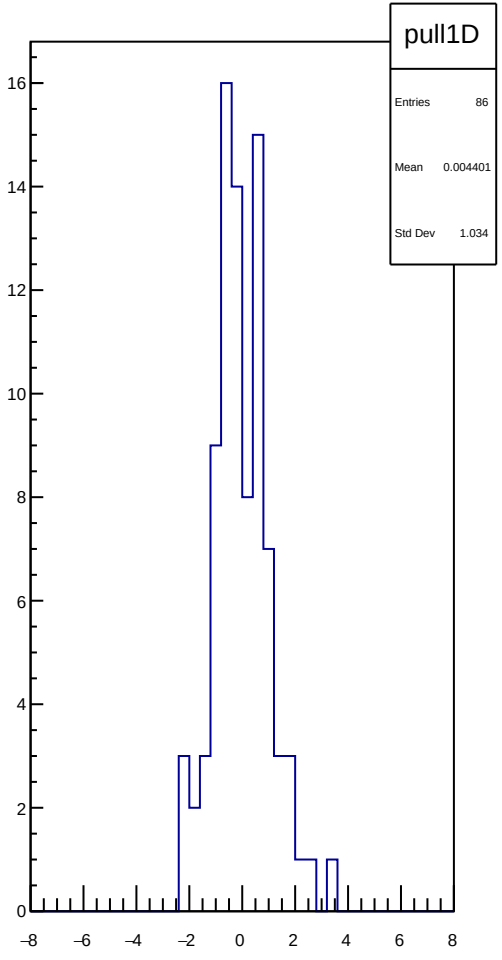

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.047e+05 / 85
p0 7.47e−11 ± 6.778e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

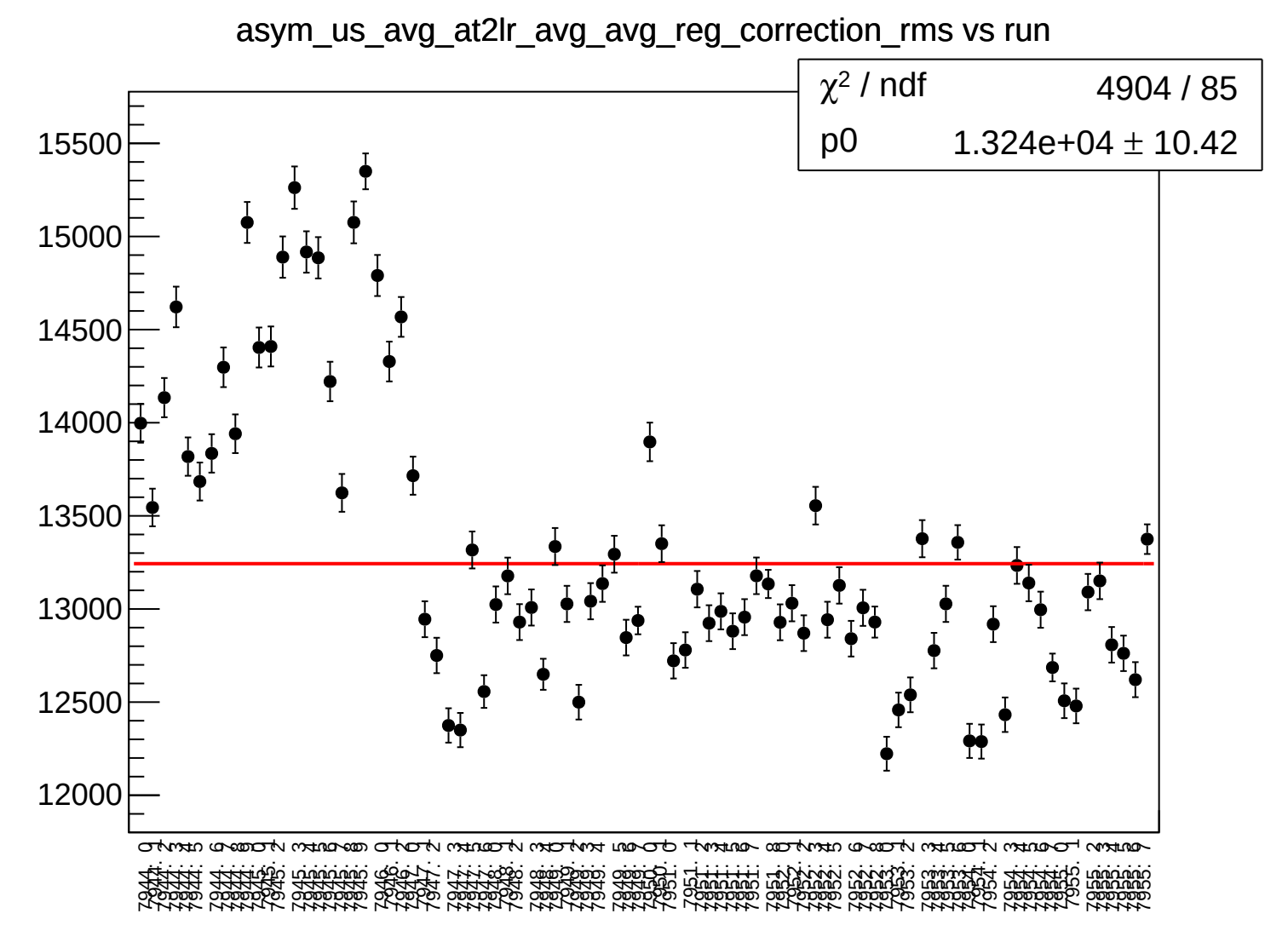

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 97.83 / 85
p0 3009 ± 2487
×10³
pull
Entries 86
Mean 603.5
Std Dev 0

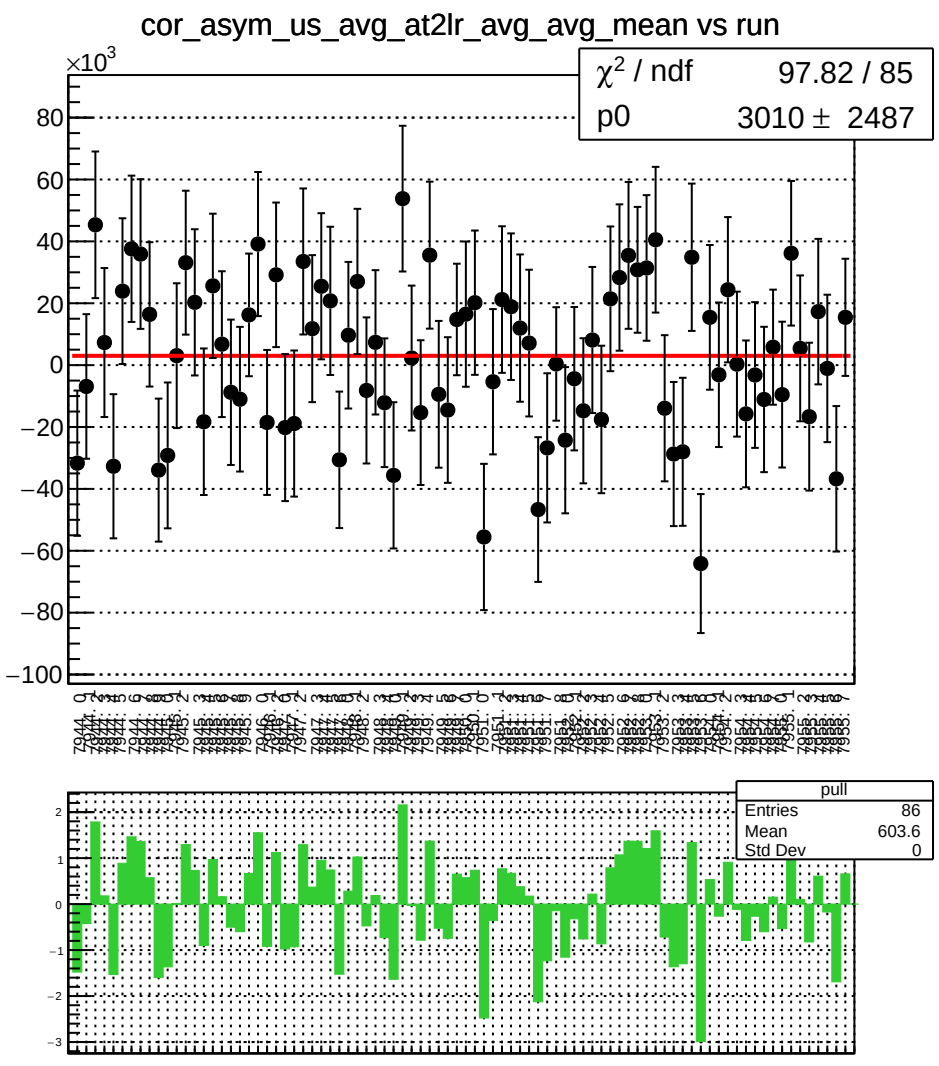

pull1D
Entries 86
Mean −0.003697
Std Dev 1.067

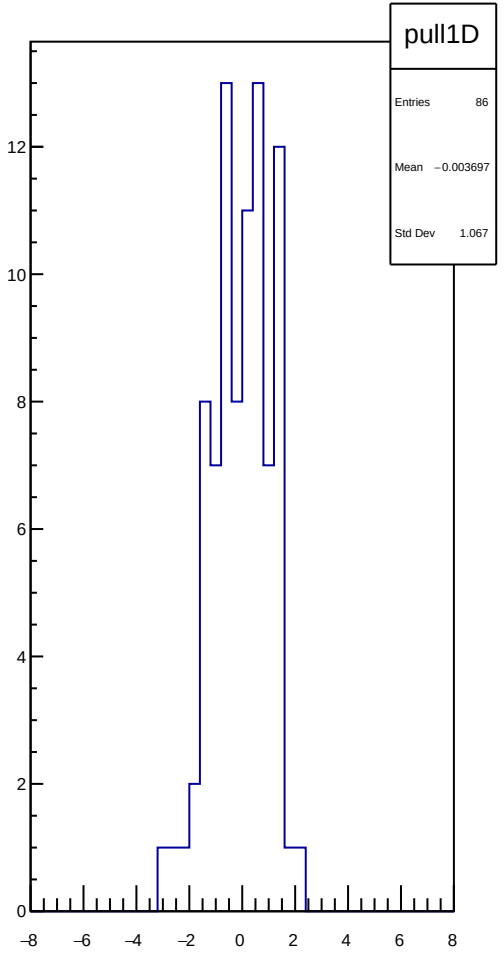

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 111.5 / 85
p0 2238 ± 1.758
2320
2300
2280
2260
2240
2220
2200
2180

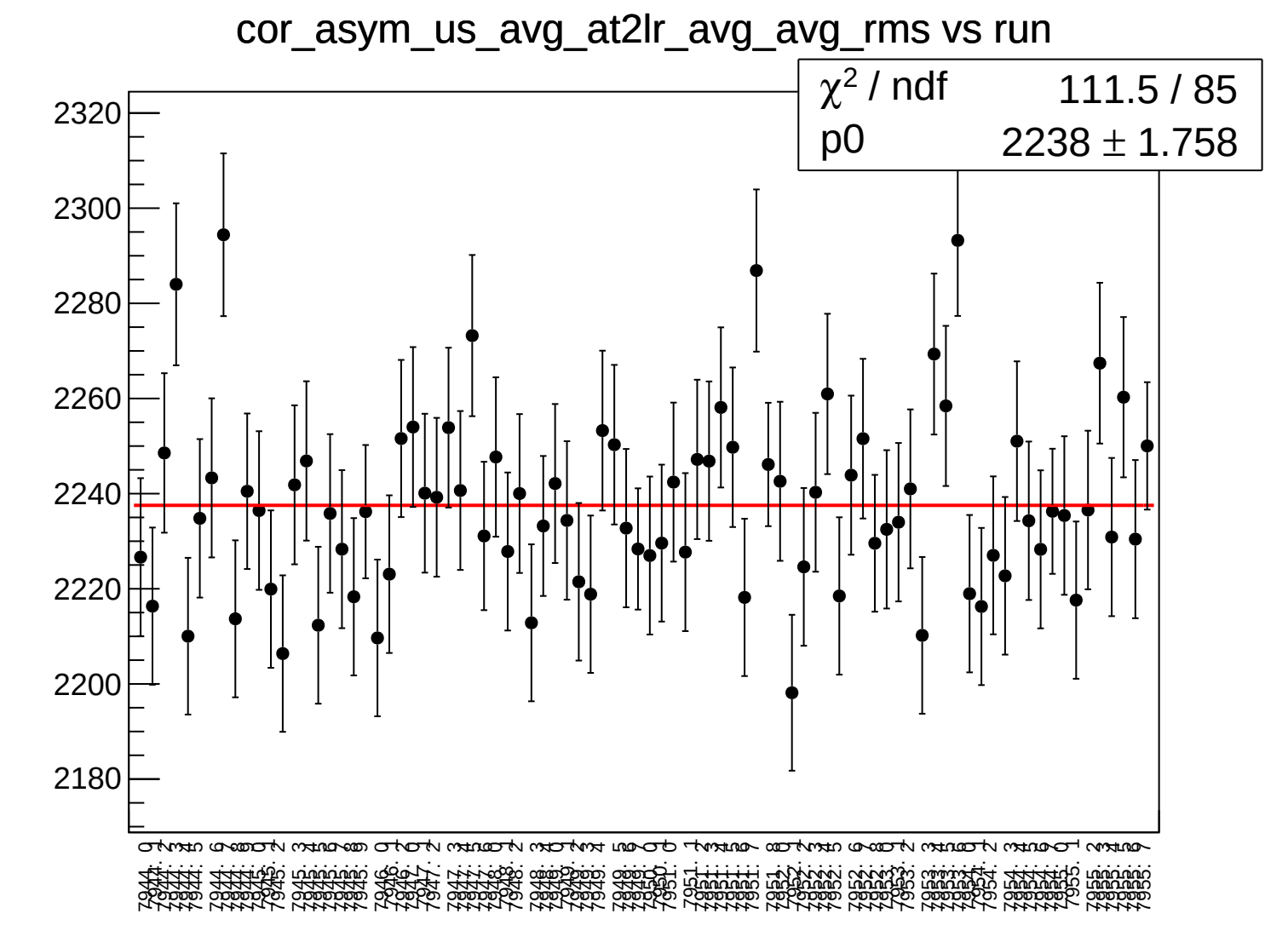

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.01 / 85
p0 −6950 ± 1.474e+04
pull
Entries 86
Mean −259.7
Std Dev 0

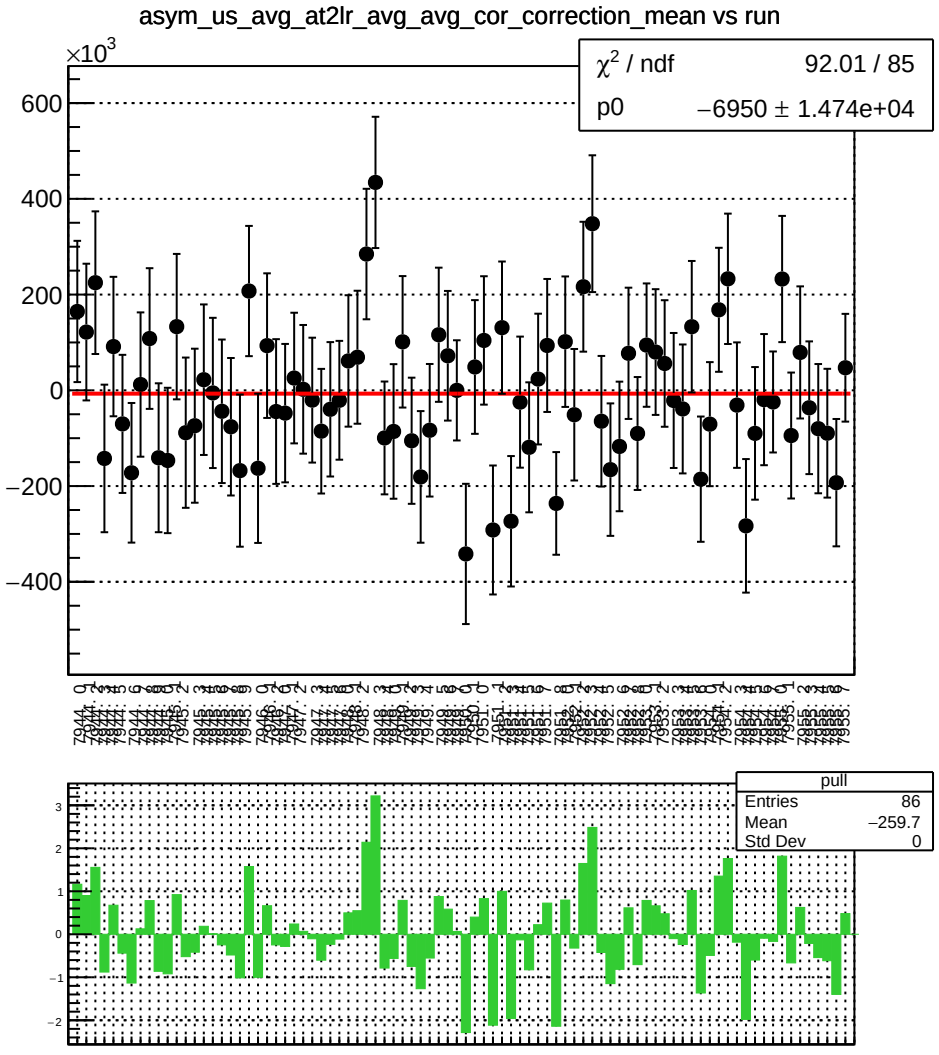

pull1D
Entries 86
Mean 0.004401
Std Dev 1.034

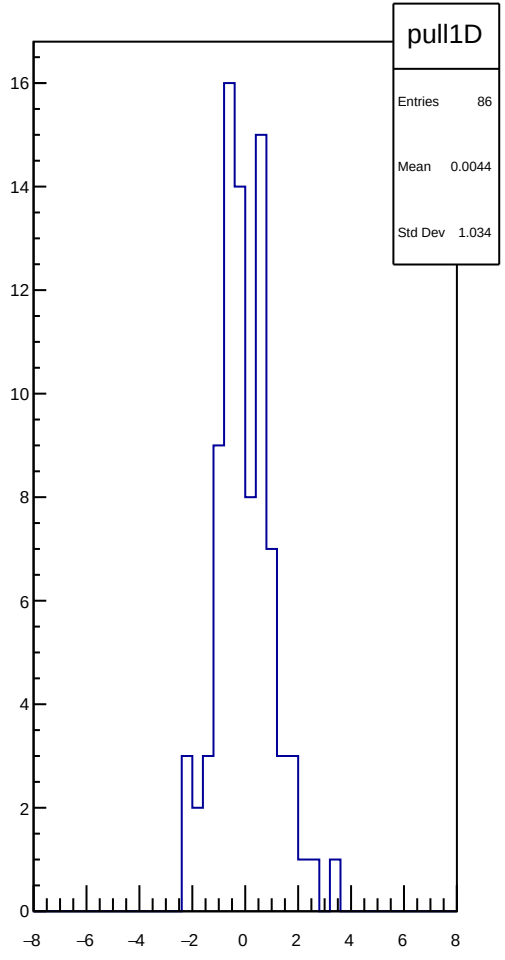

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4904 / 85
p0 1.324e+04 ± 10.42
15500
15000
14500
14000
13500
13000
12500
12000

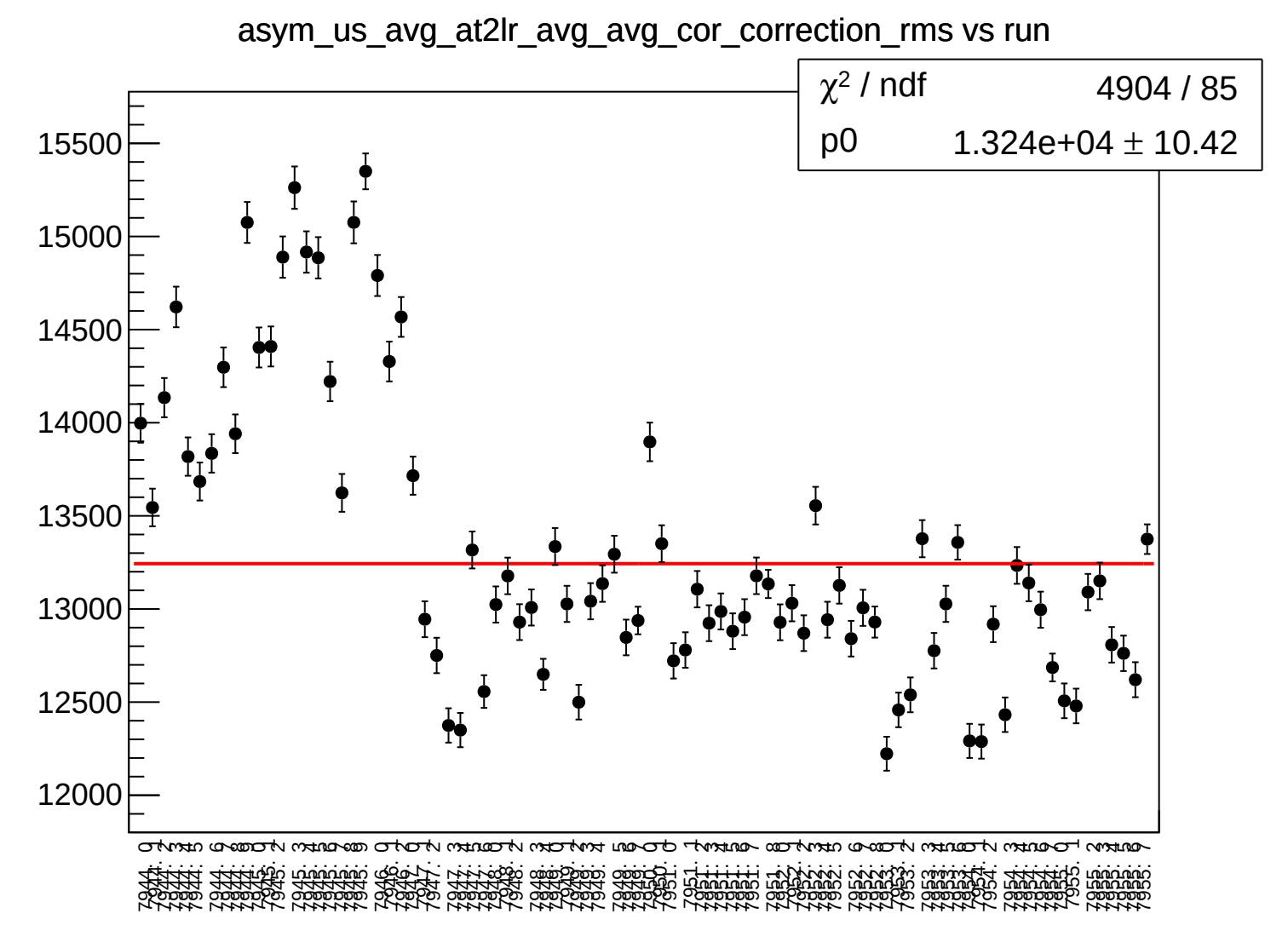

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 97.82 / 85
p0 3010 ± 2487
pull
Entries 86
Mean 603.6
Std Dev 0

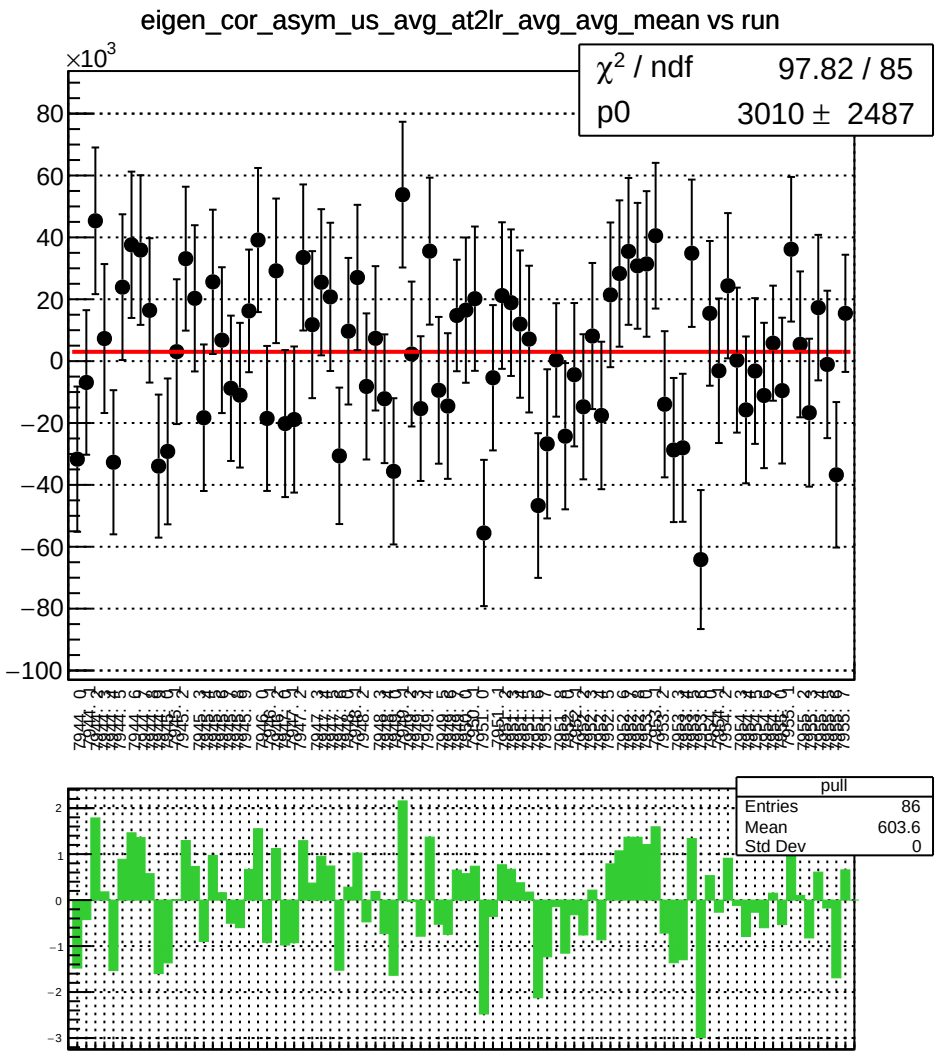

pull1D
Entries 86
Mean −0.003697
Std Dev 1.067

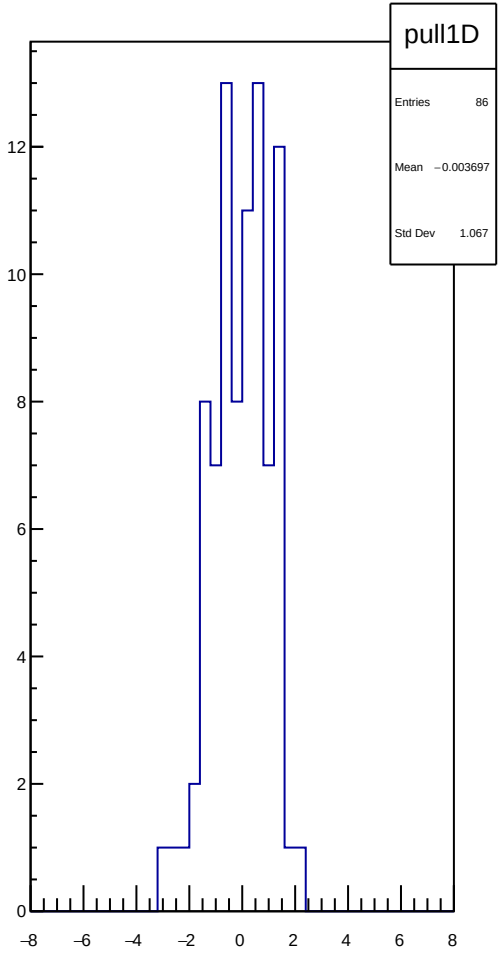

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 111.5 / 85
p0 2238 ± 1.758
2320
2300
2280
2260
2240
2220
2200
2180

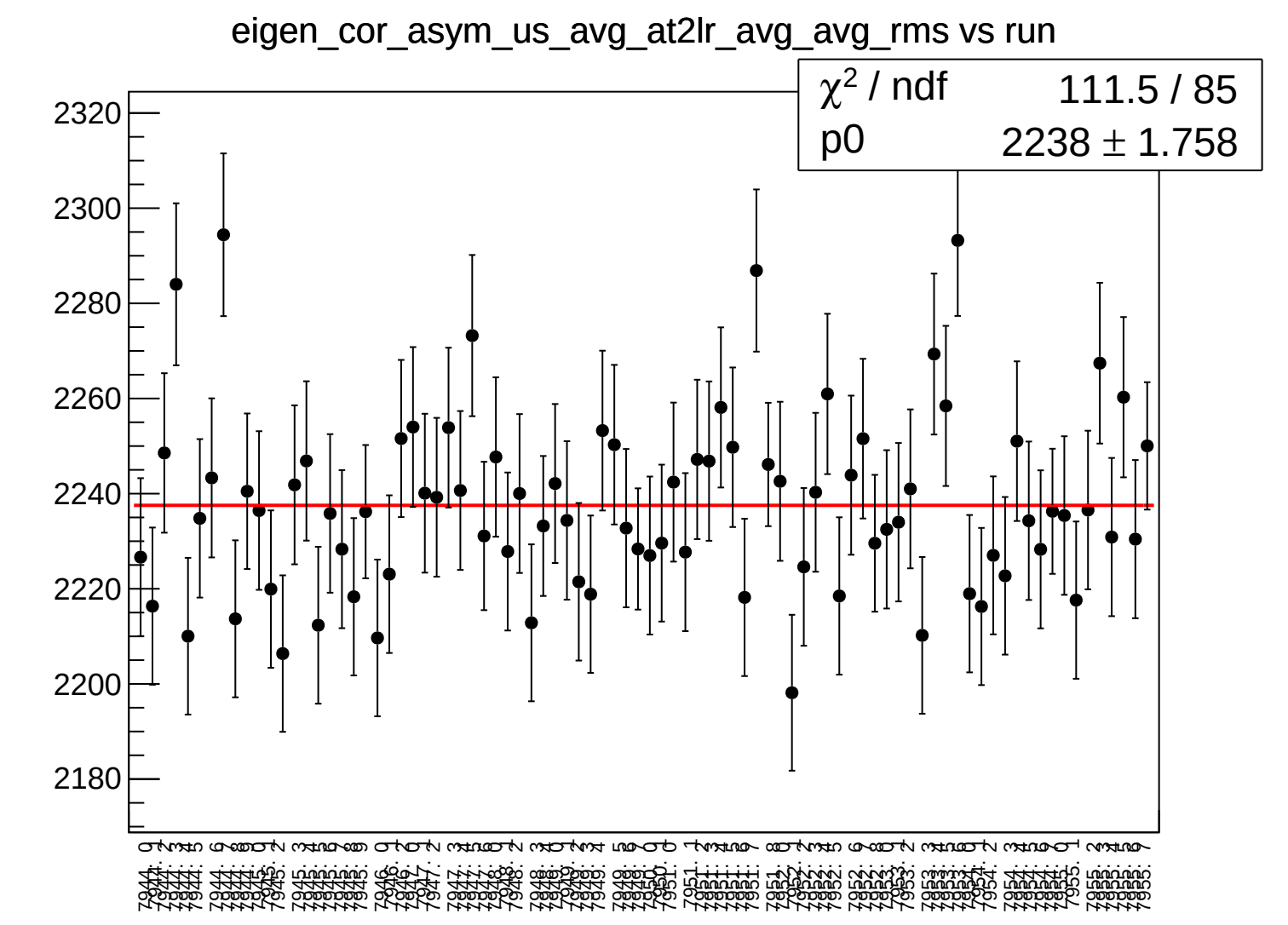

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.01 / 85
p0 −6950 ± 1.474e+04
pull
Entries 86
Mean −259.7
Std Dev 0

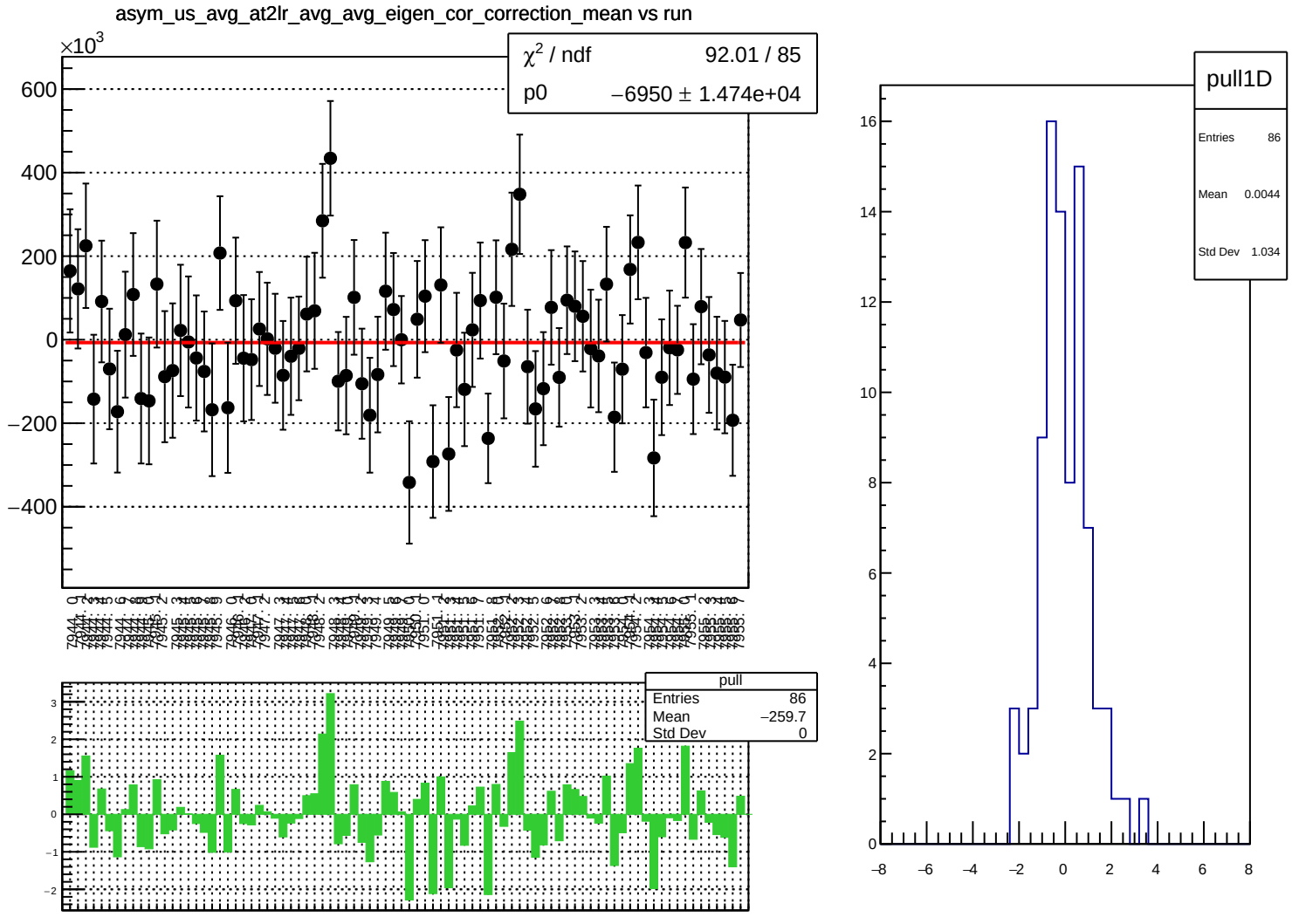

pull1D
Entries 86
Mean 0.0044
Std Dev 1.034

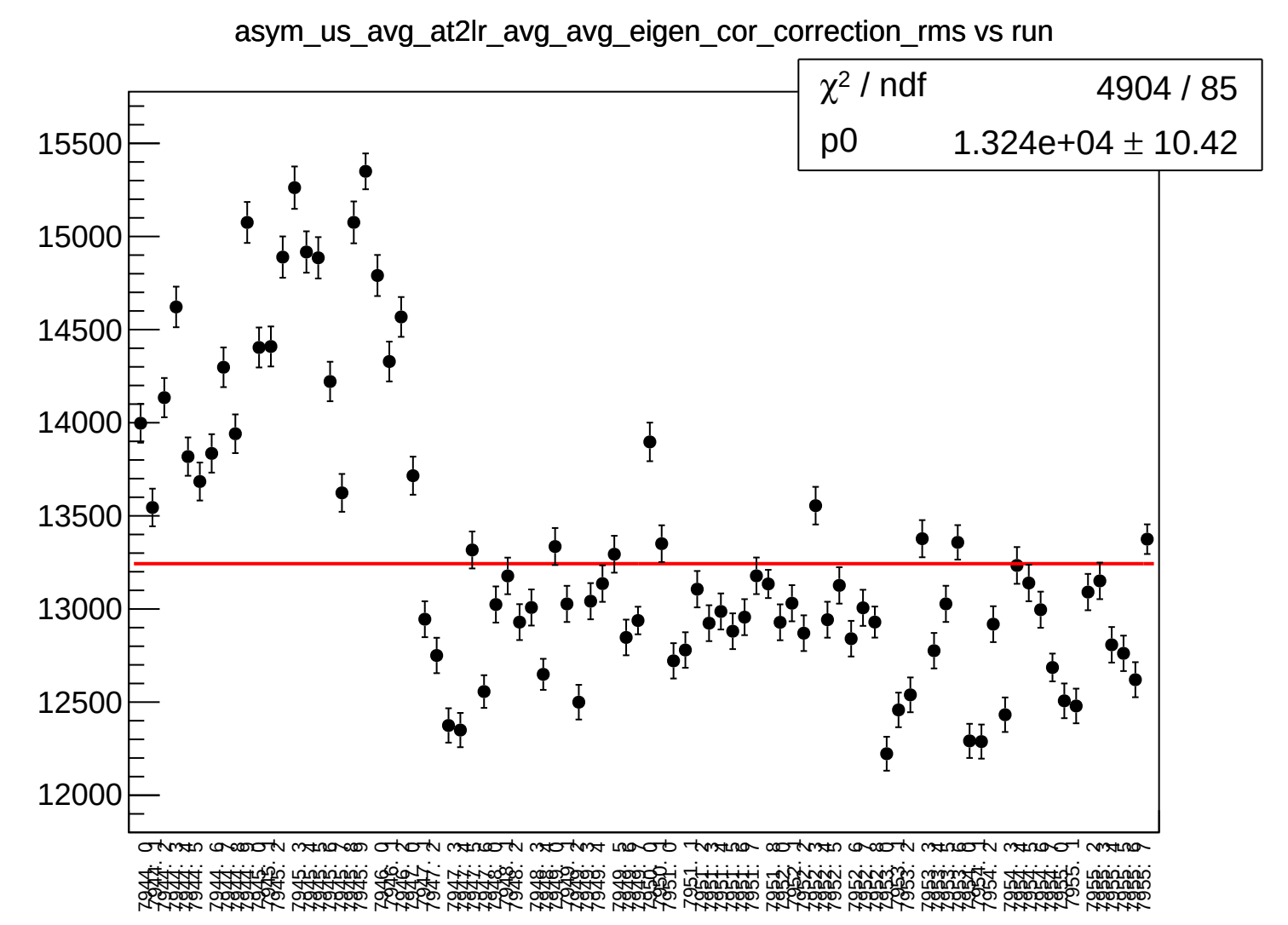

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4904 / 85
p0 1.324e+04 ± 10.42
15500
15000
14500
14000
13500
13000
12500
12000

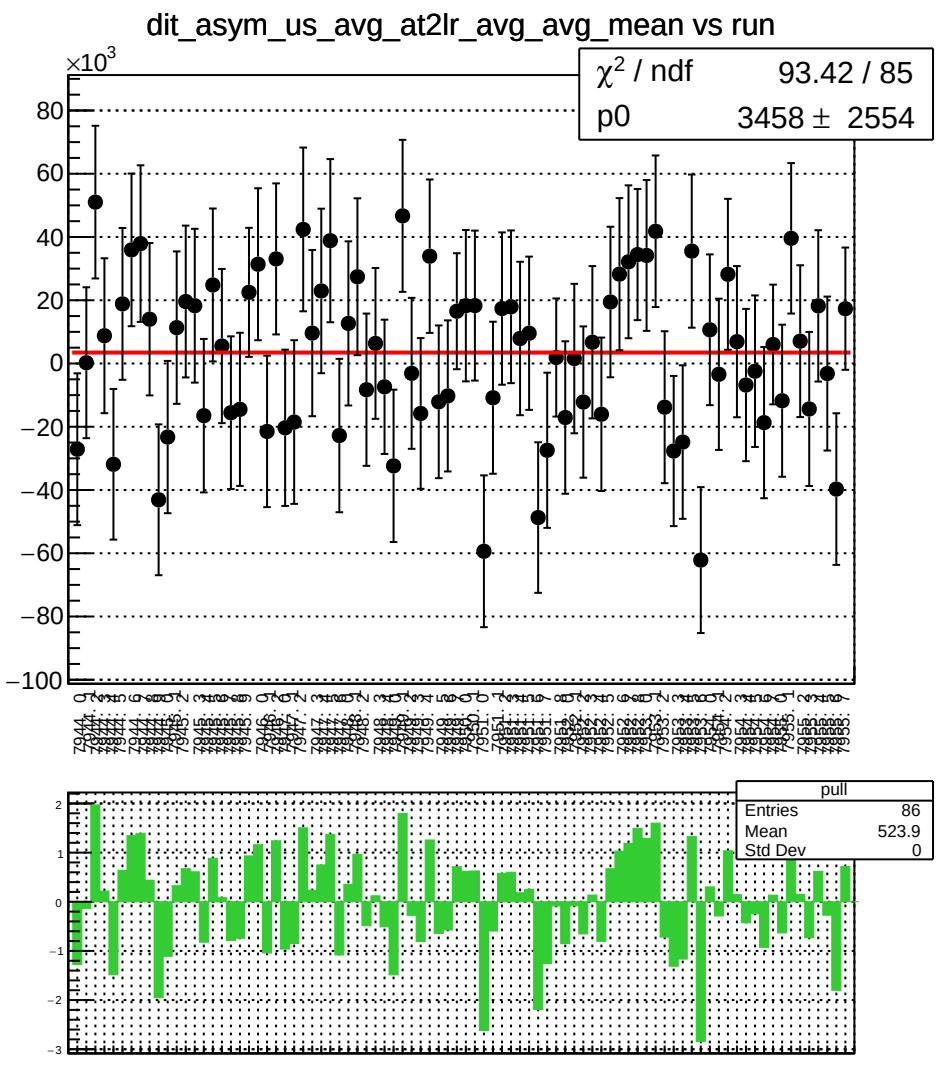

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 97.82 / 85
p0 3010 ± 2487
pull
Entries 86
Mean 603.6
Std Dev 0

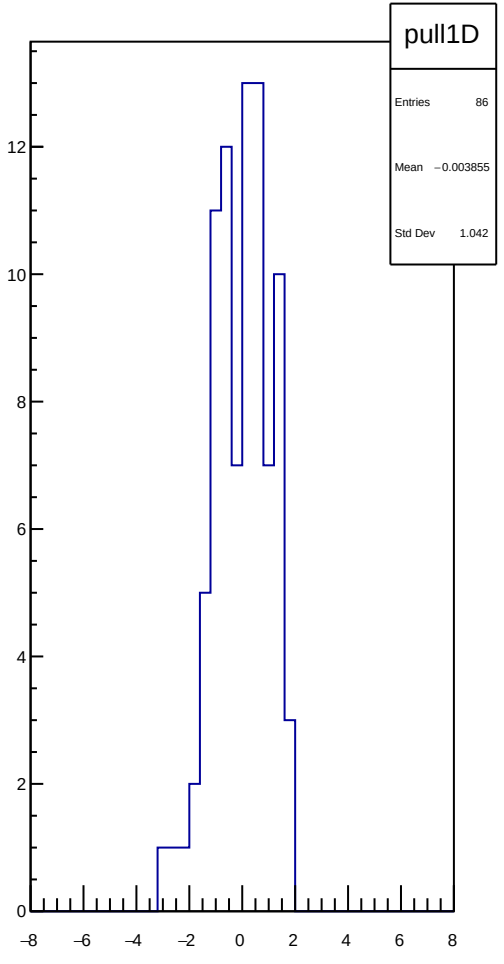

pull1D
Entries 86
Mean −0.003697
Std Dev 1.067

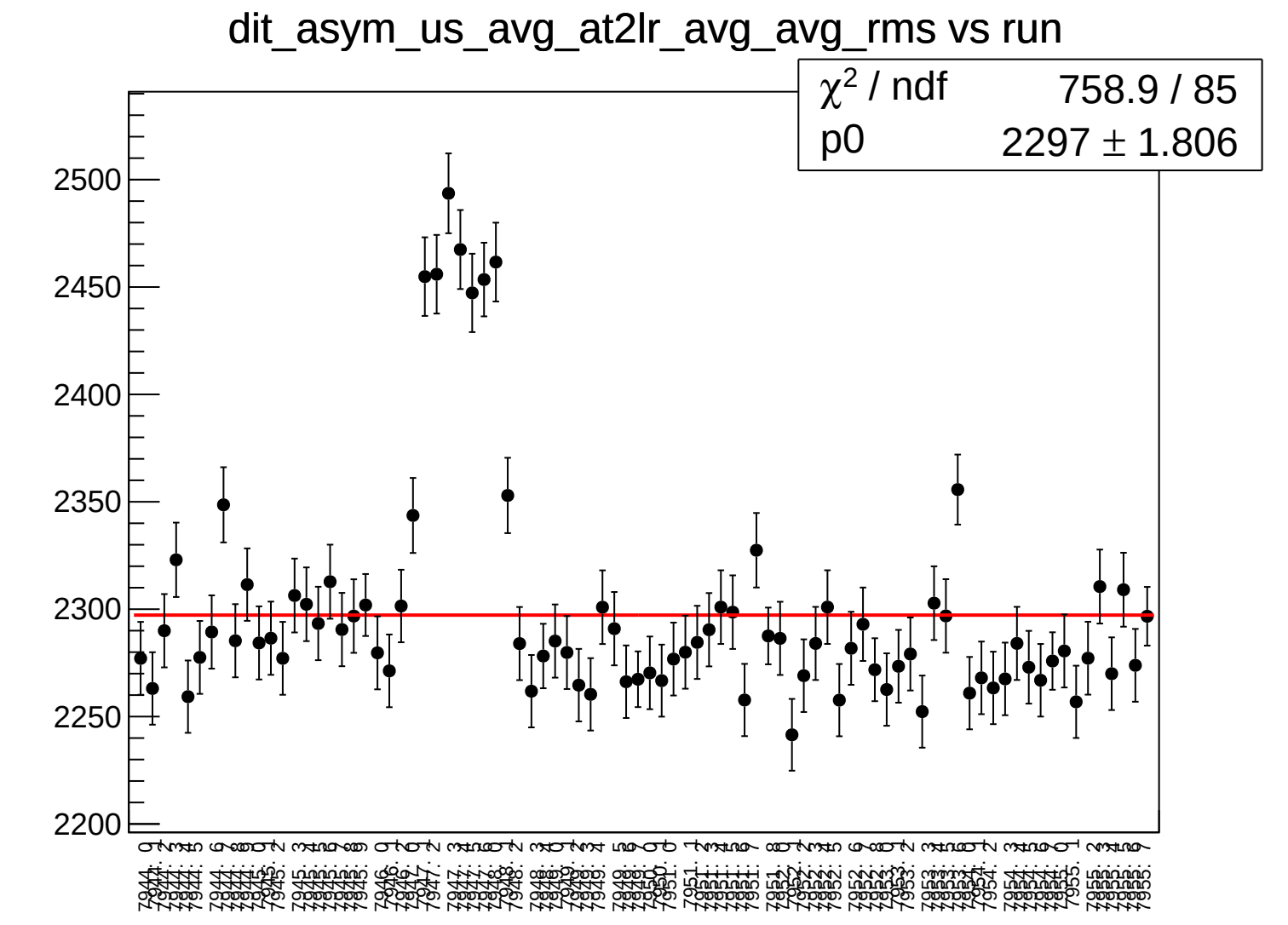

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 111.5 / 85
p0 2238 ± 1.758
2320
2300
2280
2260
2240
2220
2200
2180

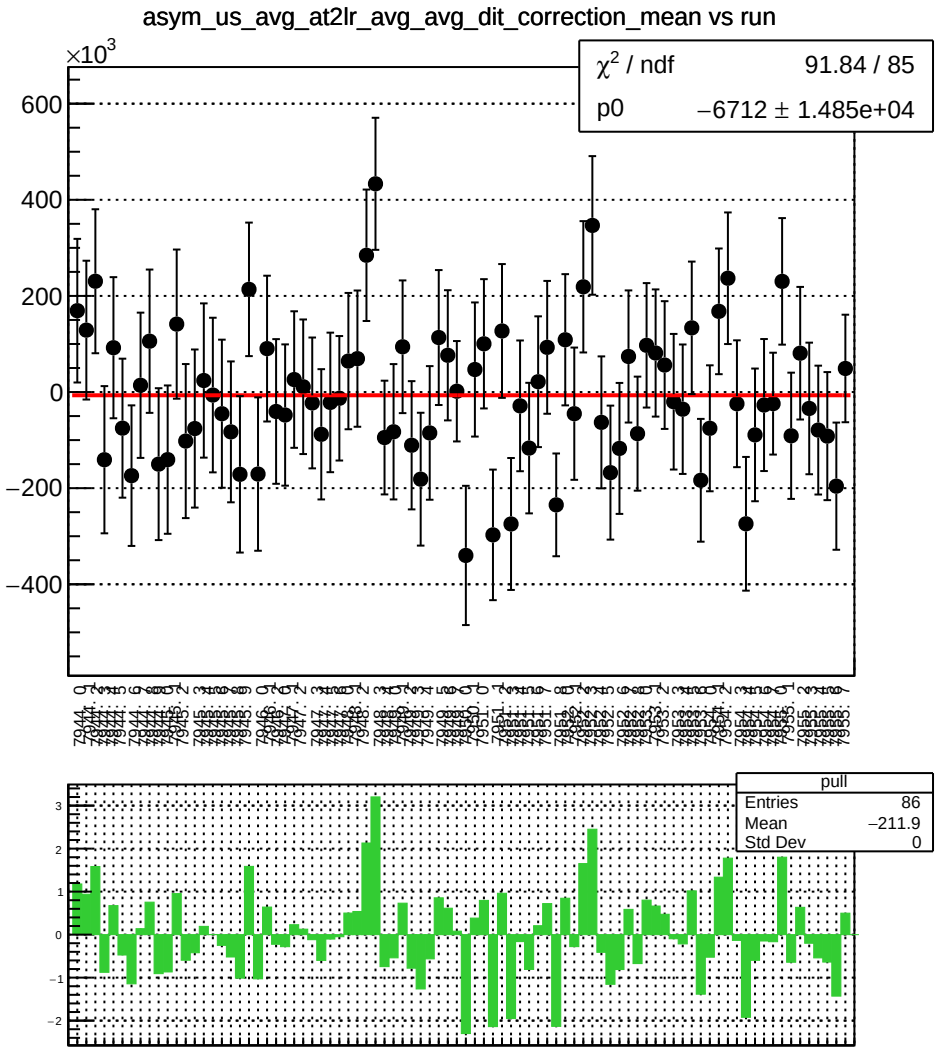

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.01 / 85
p0 −6950 ± 1.474e+04
600
400
200
0
−200
−400
pull
Entries 86
Mean −259.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.0044
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

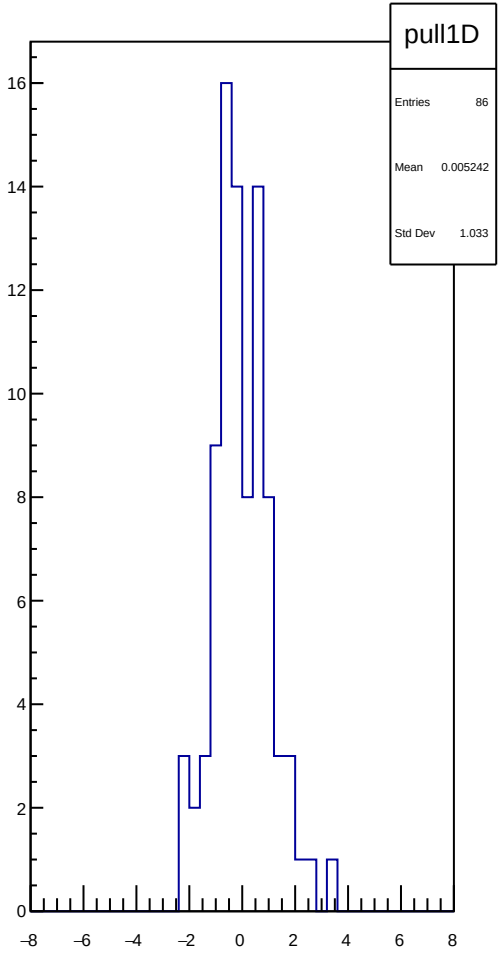

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4904 / 85
p0 1.324e+04 ± 10.42
15500
15000
14500
14000
13500
13000
12500
12000

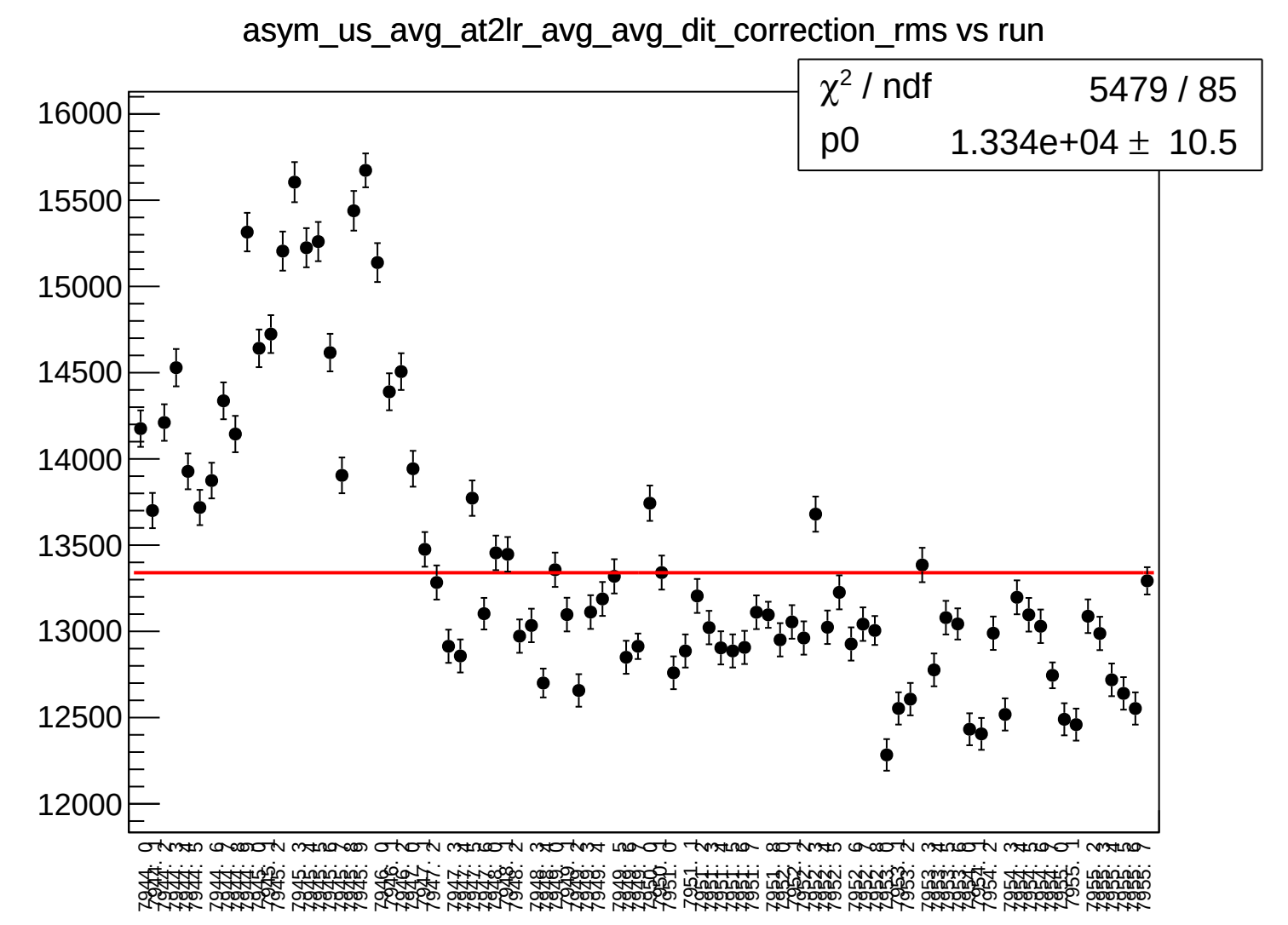

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 93.42 / 85
p0 3458 ± 2554
pull
Entries 86
Mean 523.9
Std Dev 0

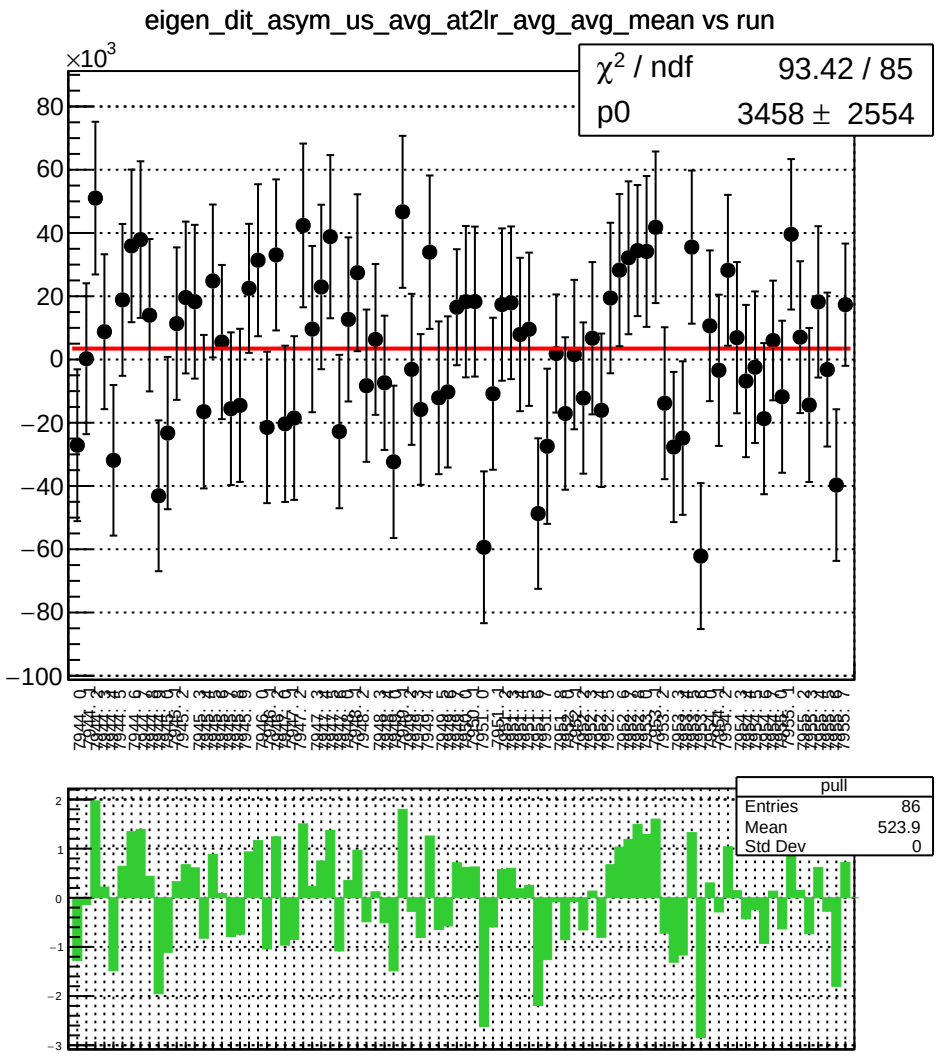

pull1D
Entries 86
Mean −0.003855
Std Dev 1.042

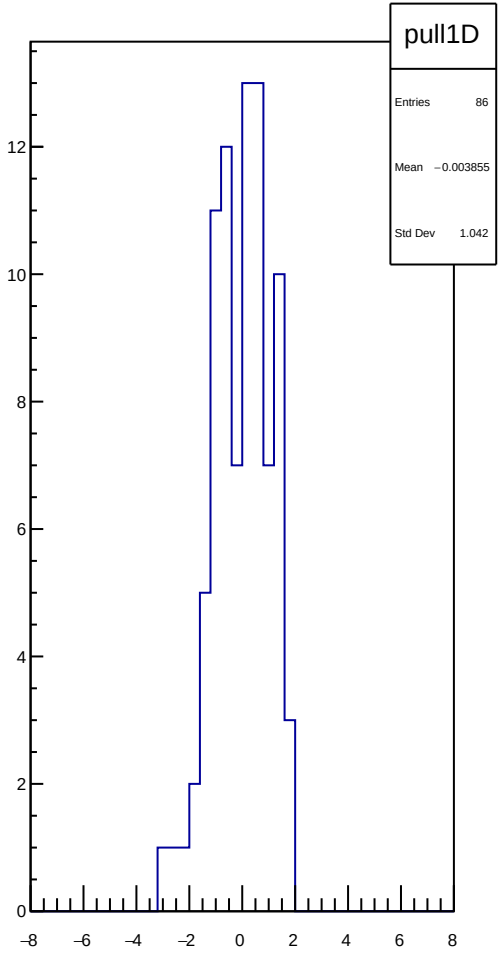

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 758.9 / 85
p0 2297 ± 1.806
2500
2450
2400
2350
2300
2250
2200

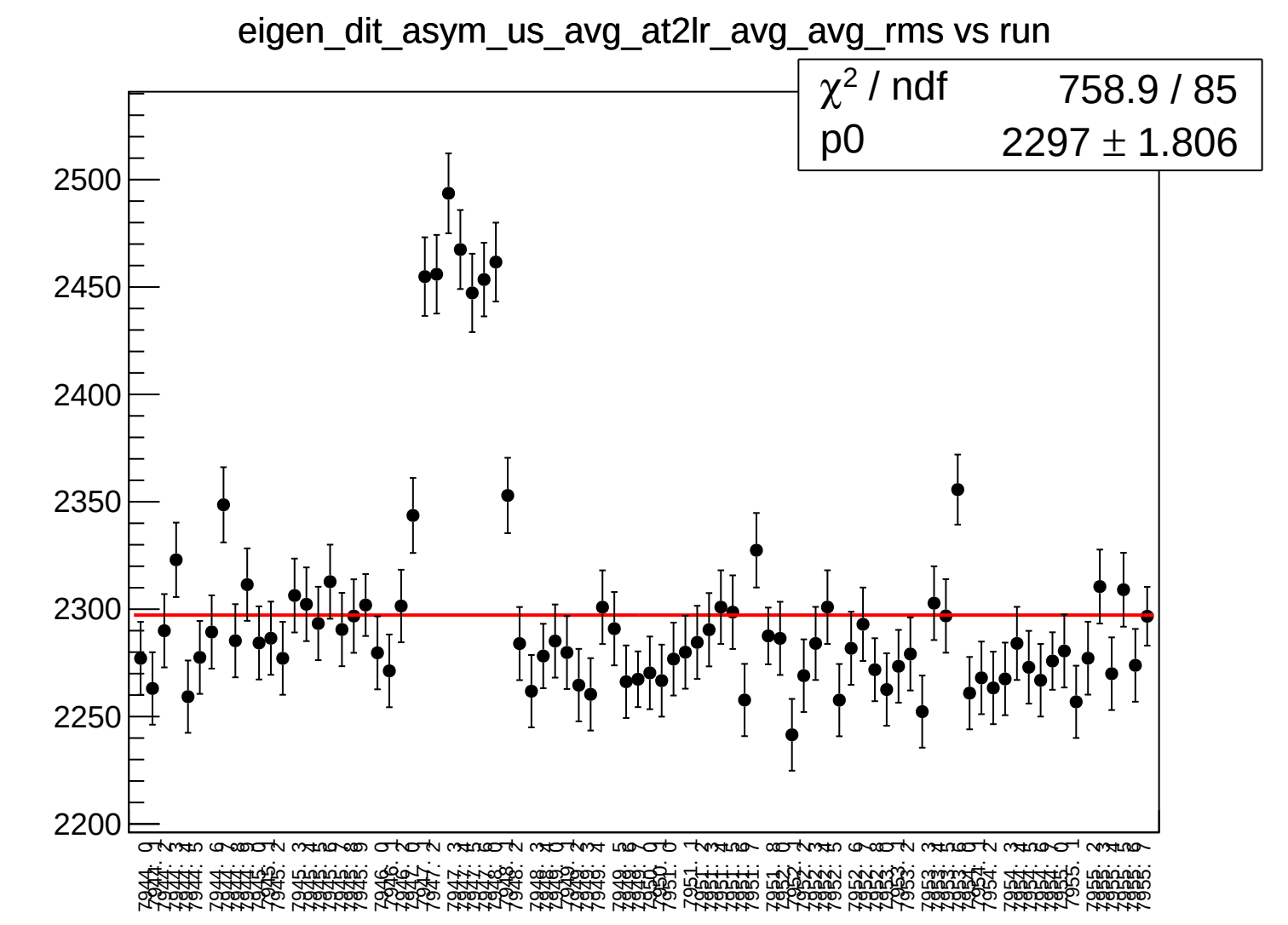

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.84 / 85
p0 −6712 ± 1.485e+04
600
400
200
0
−200
−400
pull
Entries 86
Mean −211.9
Std Dev 0
3
2
1
0
−1
−2

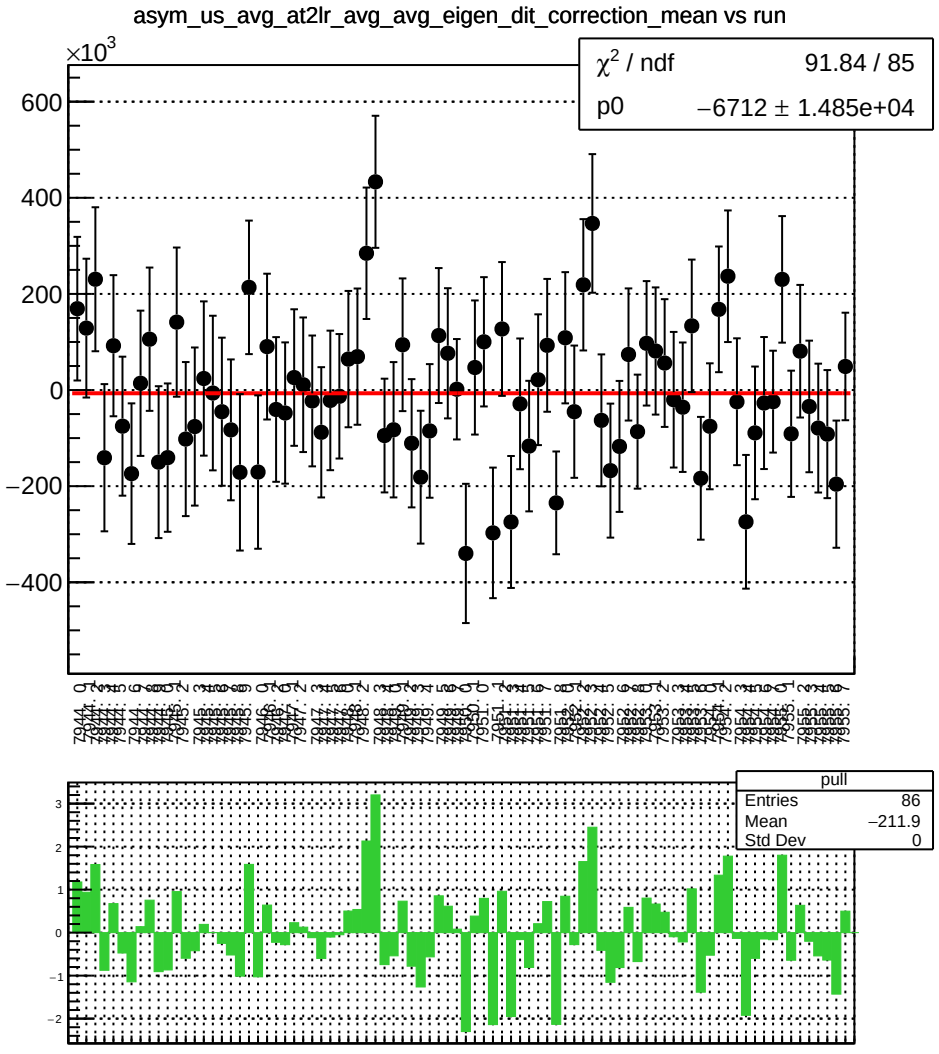

pull1D
Entries 86
Mean 0.005242
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

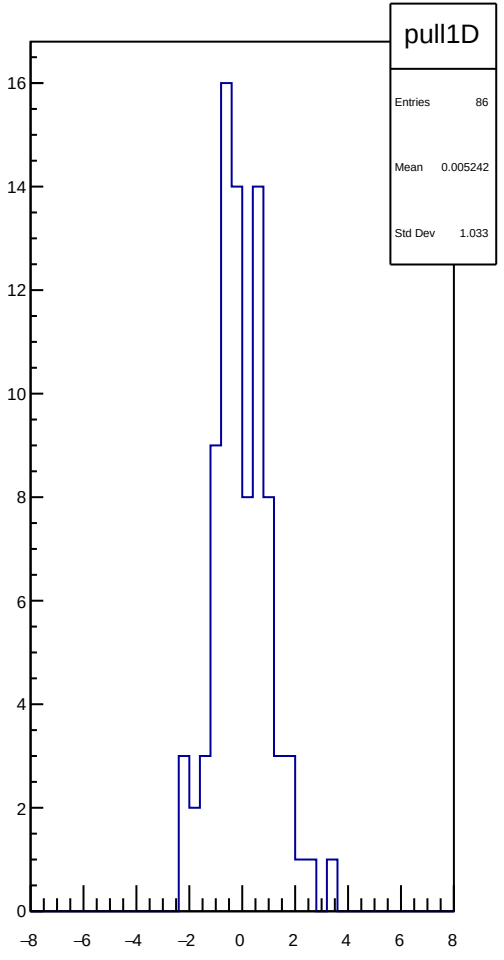

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5479 / 85
p0 1.334e+04 ± 10.5
16000
15500
15000
14500
14000
13500
13000
12500
12000


eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 93.42 / 85
p0 3458 ± 2554
×10³
pull
Entries 86
Mean 523.9
Std Dev 0


pull1D
Entries 86
Mean −0.003855
Std Dev 1.042


eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 758.9 / 85
p0 2297 ± 1.806
2500
2450
2400
2350
2300
2250
2200


asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.84 / 85
p0 −6712 ± 1.485e+04
600
400
200
0
−200
−400
pull
Entries 86
Mean −211.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.005242
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
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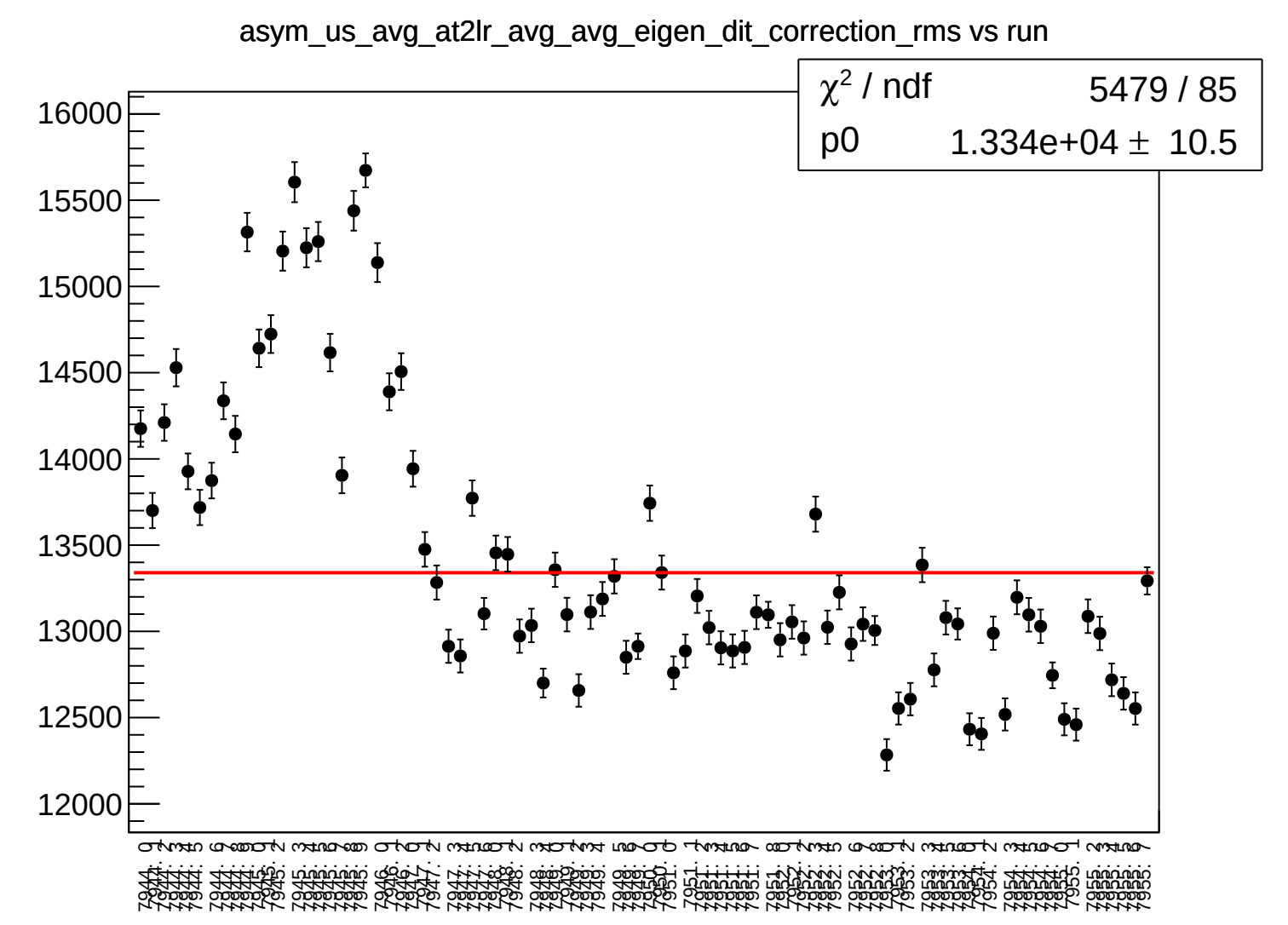
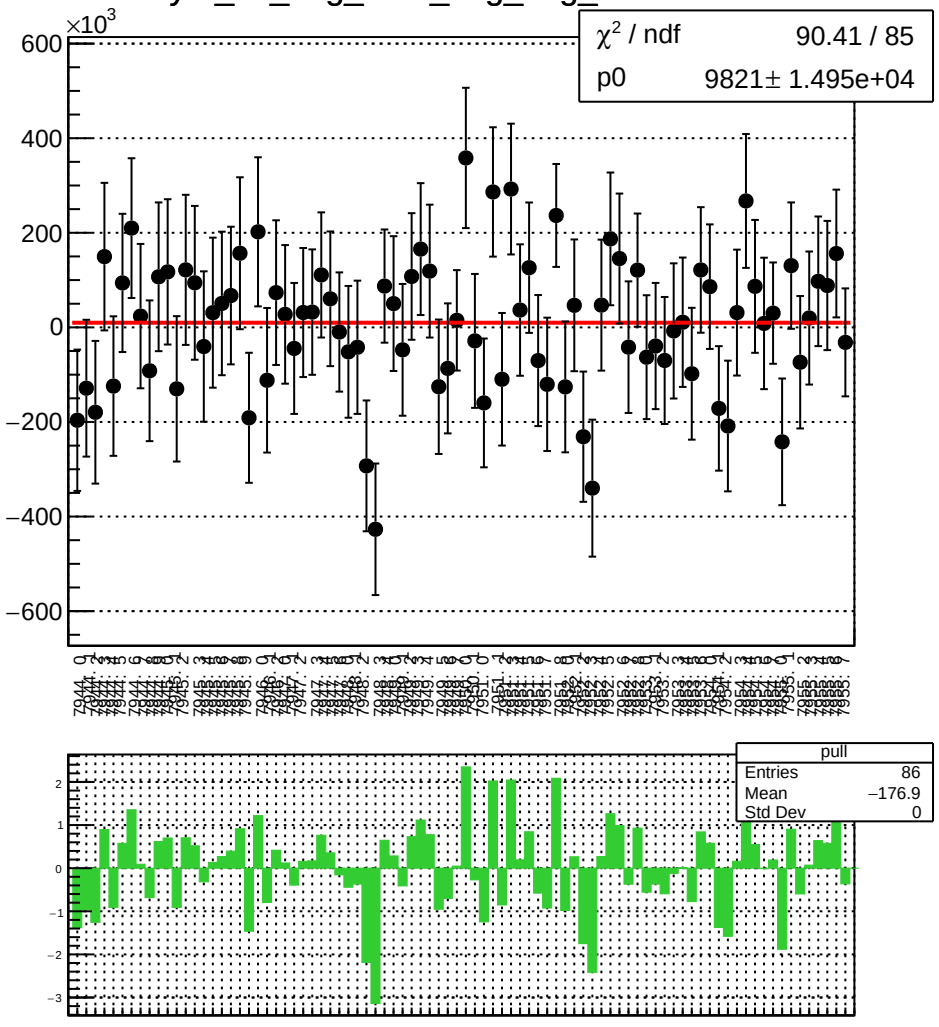
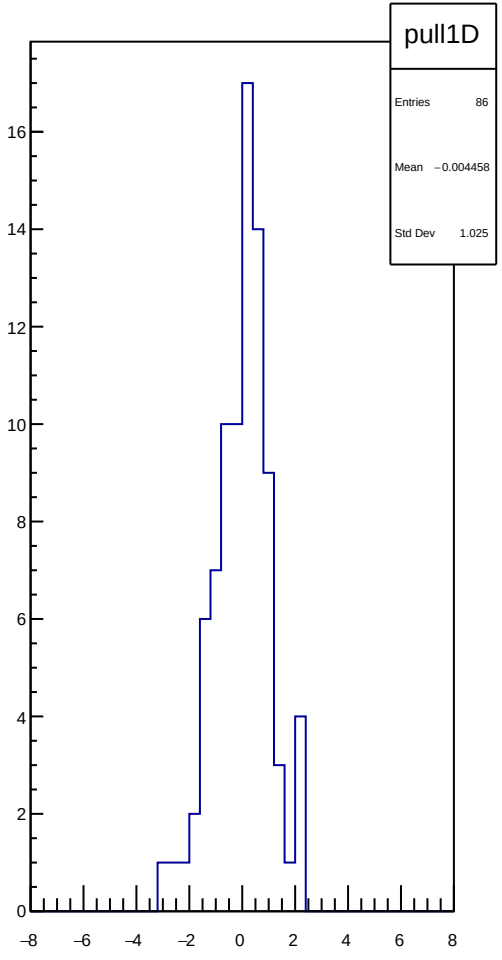
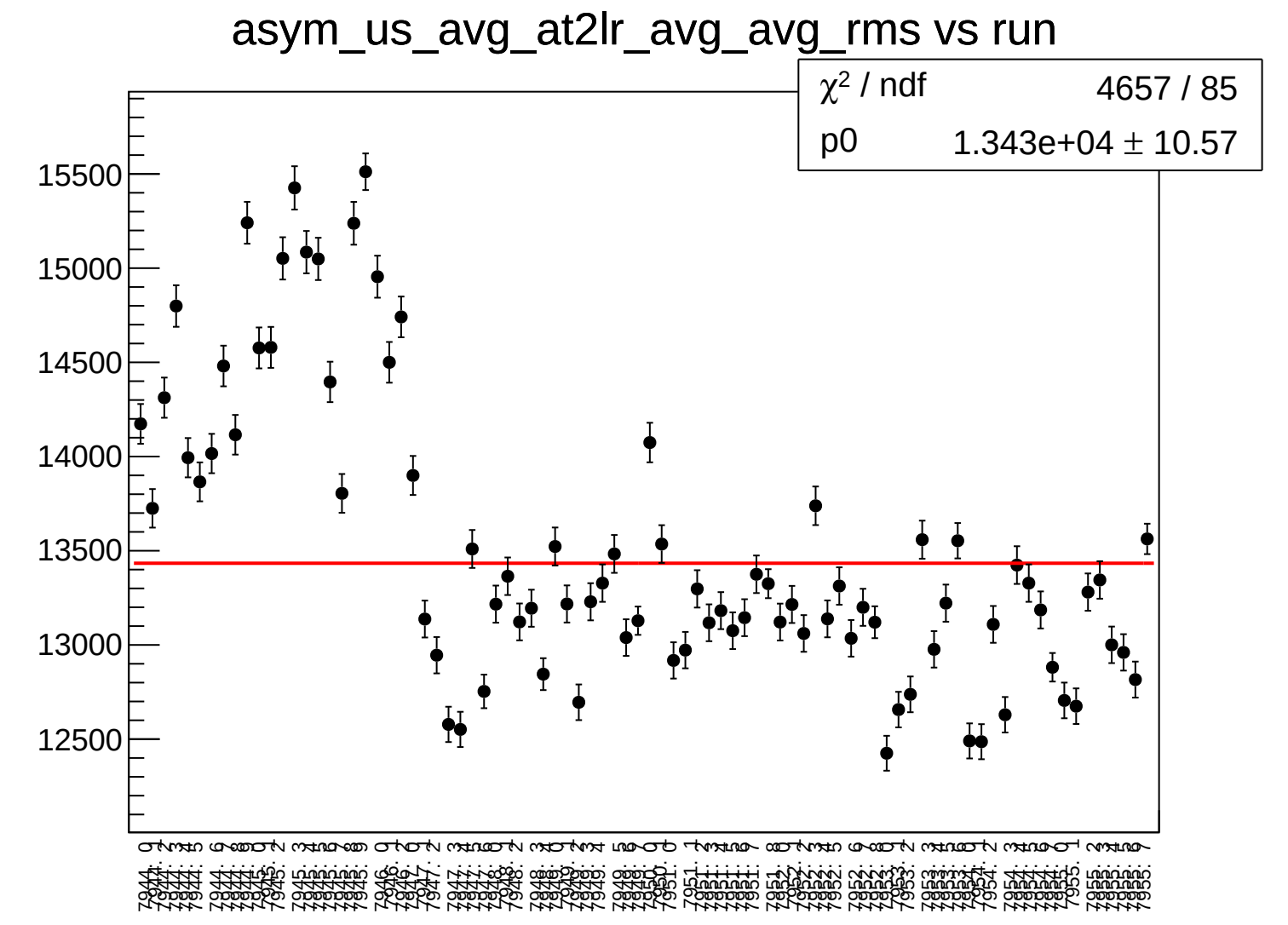
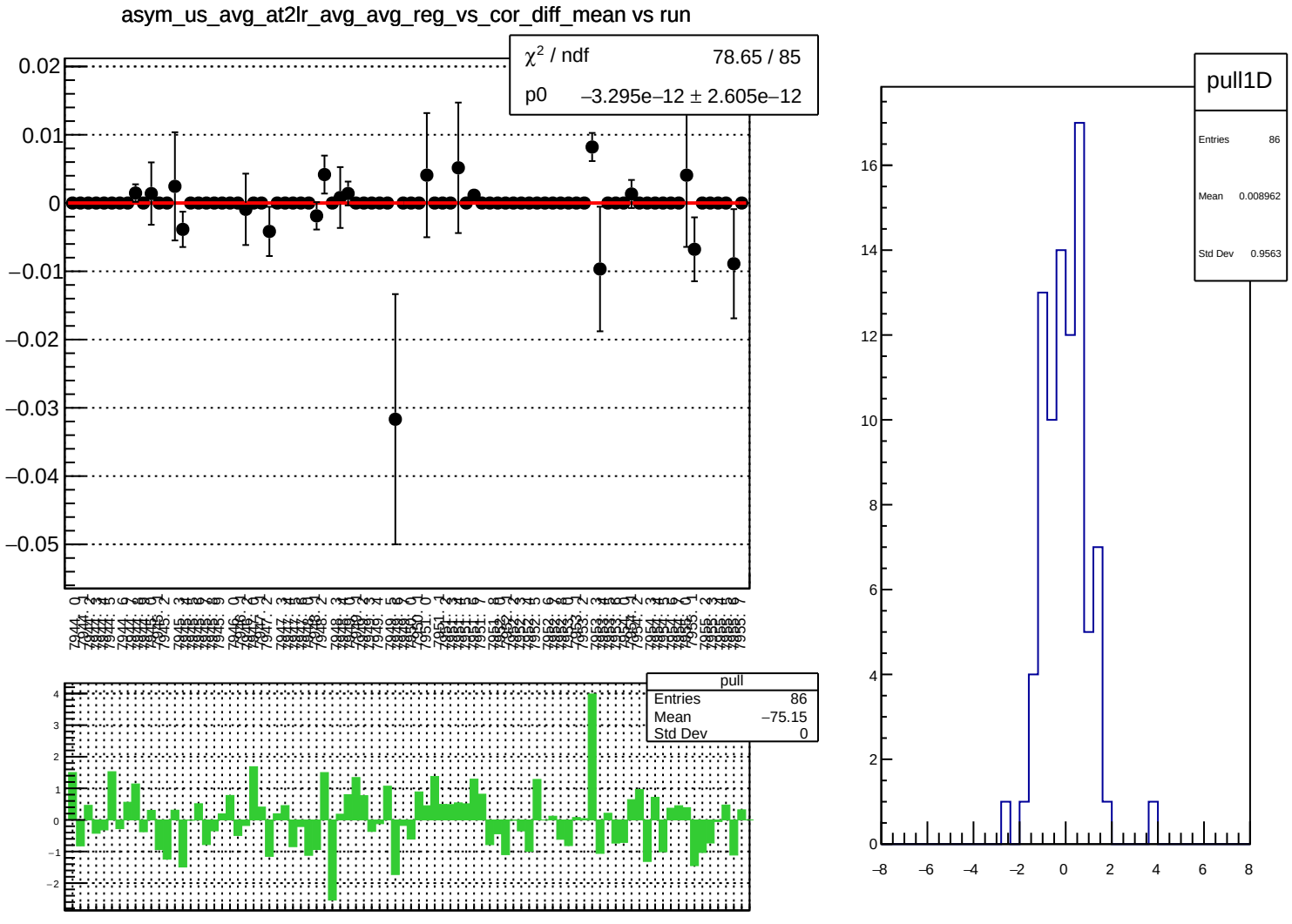
0
2
4
6
8

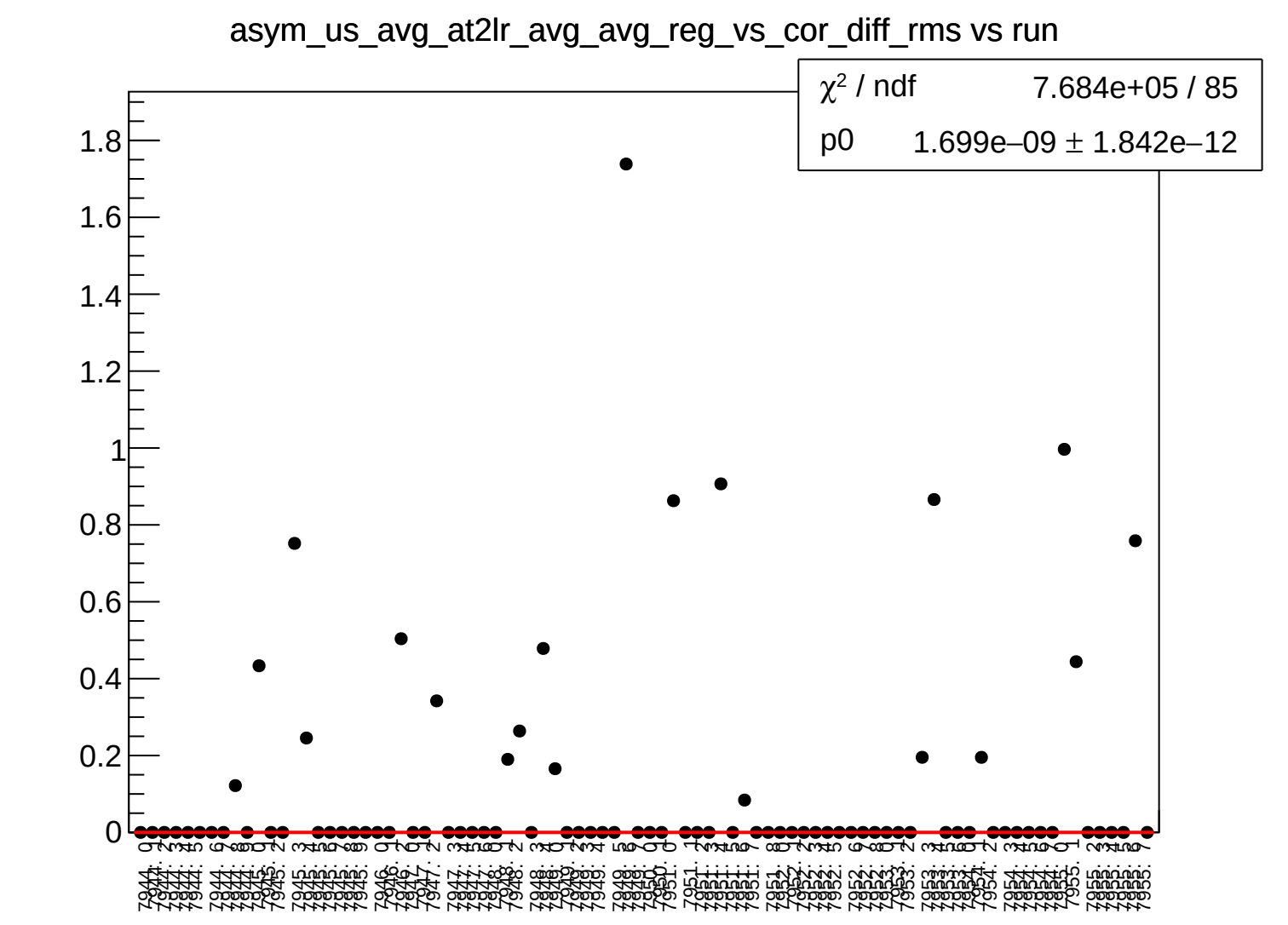

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5479 / 85
p0 1.334e+04 ± 10.5
16000
15500
15000
14500
14000
13500
13000
12500
12000

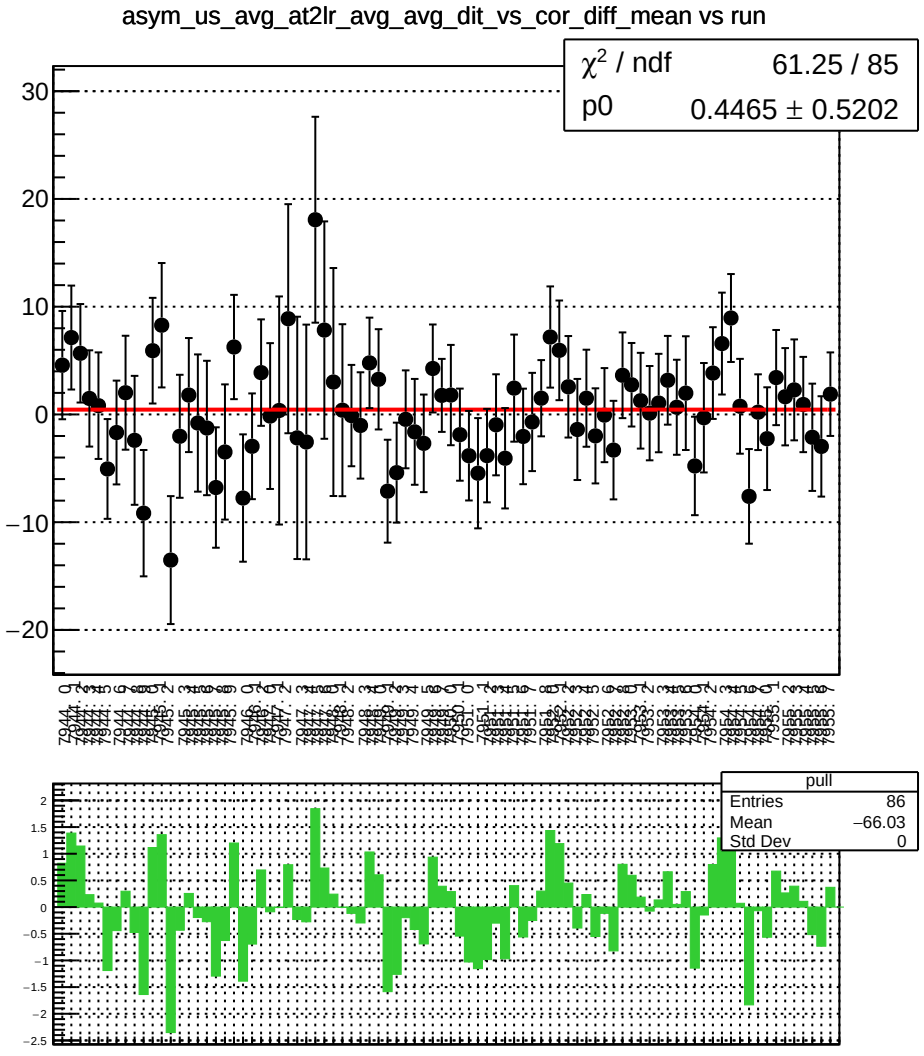

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 90.41 / 85
p0 9821± 1.495e+04
pull
Entries 86
Mean −176.9
Std Dev 0
2
1
0
−1
−2
−3

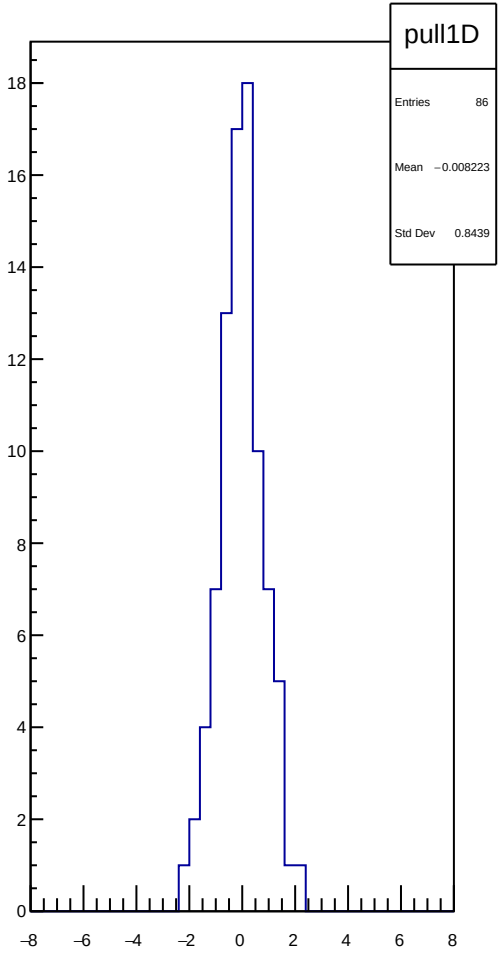

pull1D
Entries 86
Mean −0.004458
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

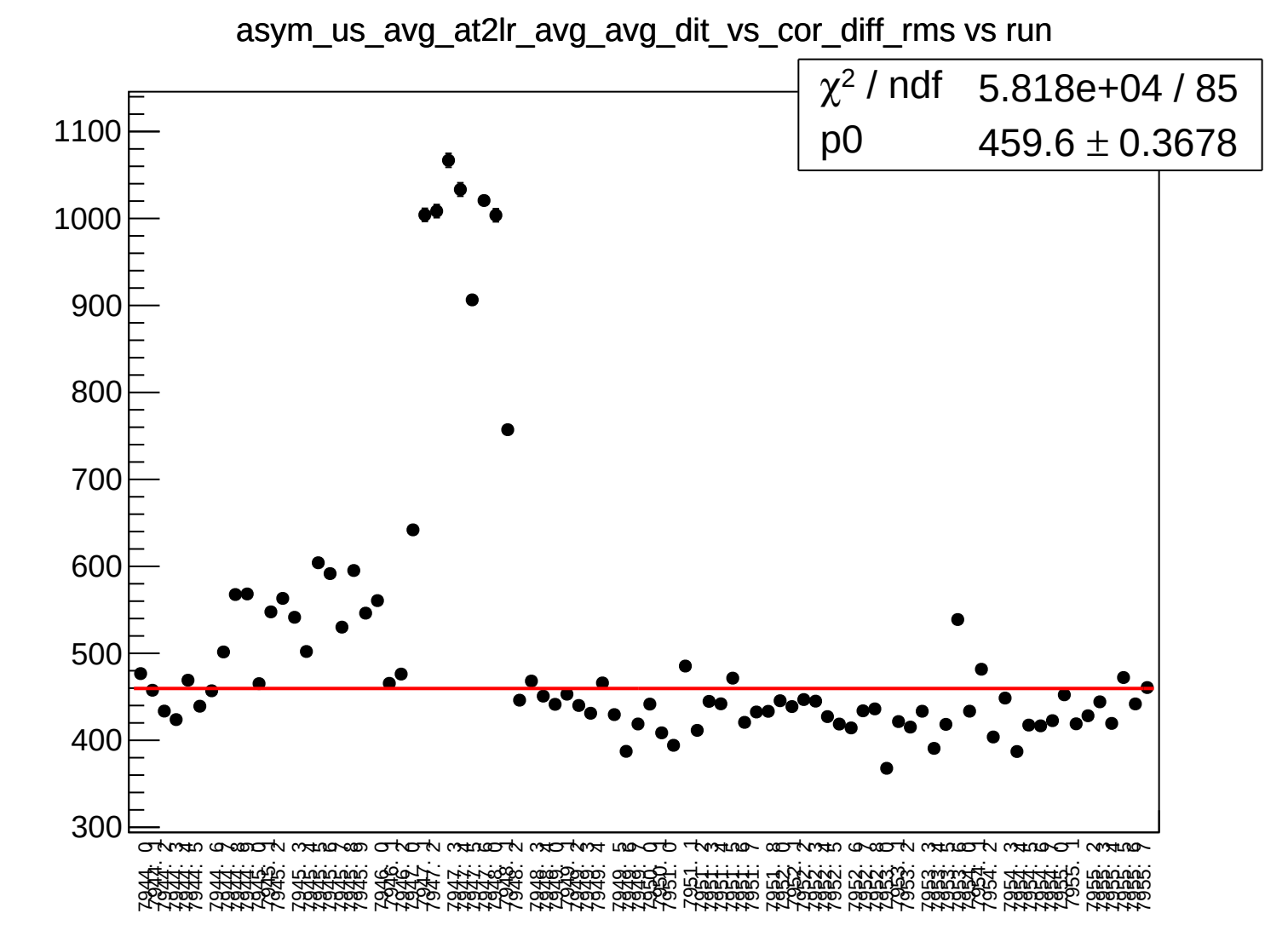

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 4657 / 85
p0 1.343e+04 ± 10.57
15500
15000
14500
14000
13500
13000
12500

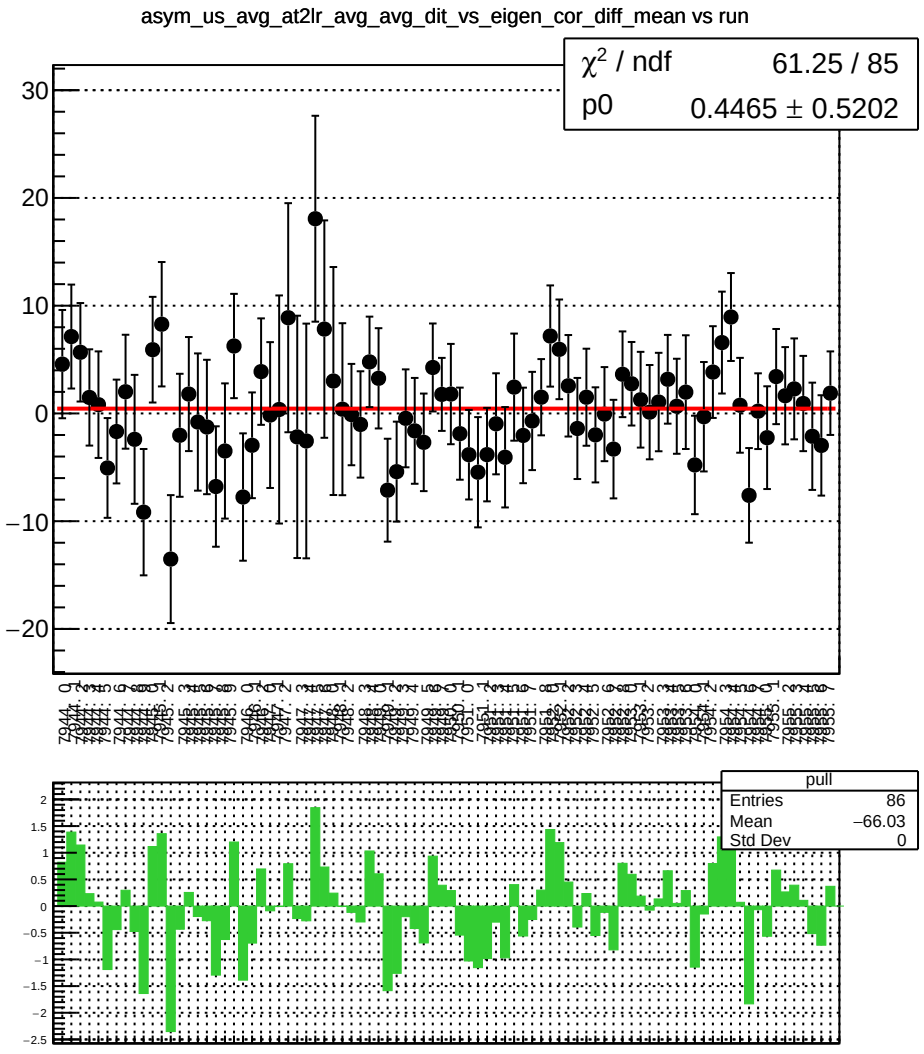

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.65 / 85
p0 −3.295e−12 ± 2.605e−12
pull
Entries 86
Mean −75.15
Std Dev 0
pull1D
Entries 86
Mean 0.008962
Std Dev 0.9563

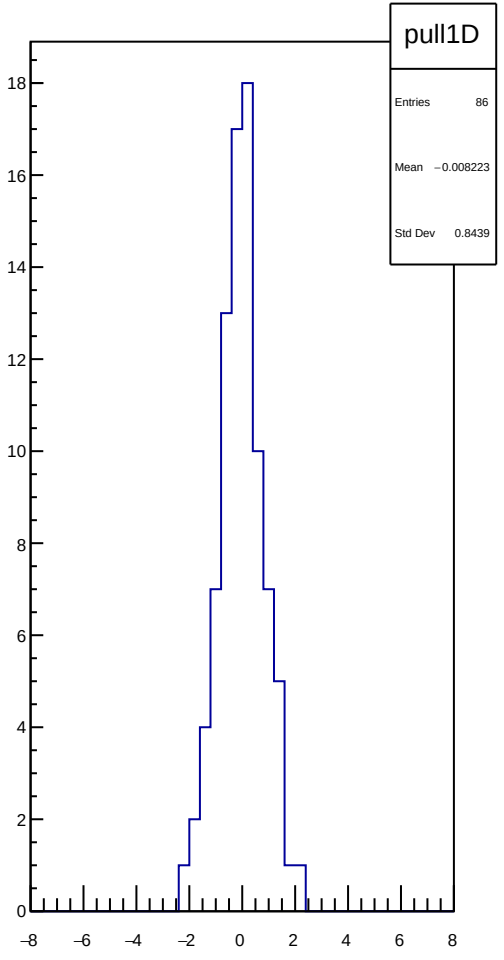

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.684e+05 / 85
p0 1.699e−09 ± 1.842e−12
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

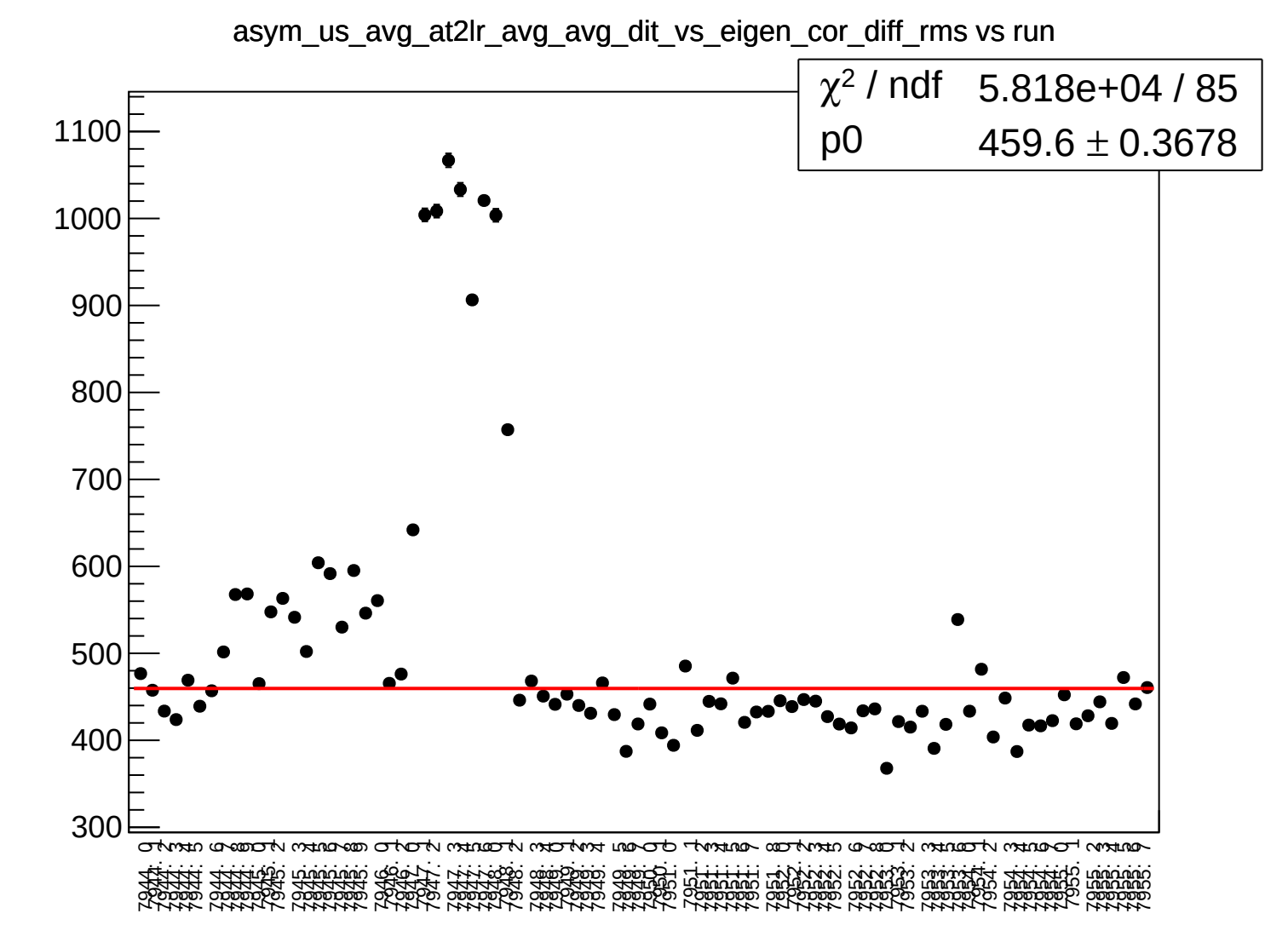

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 61.25 / 85
p0 0.4465 ± 0.5202
pull
Entries 86
Mean −66.03
Std Dev 0

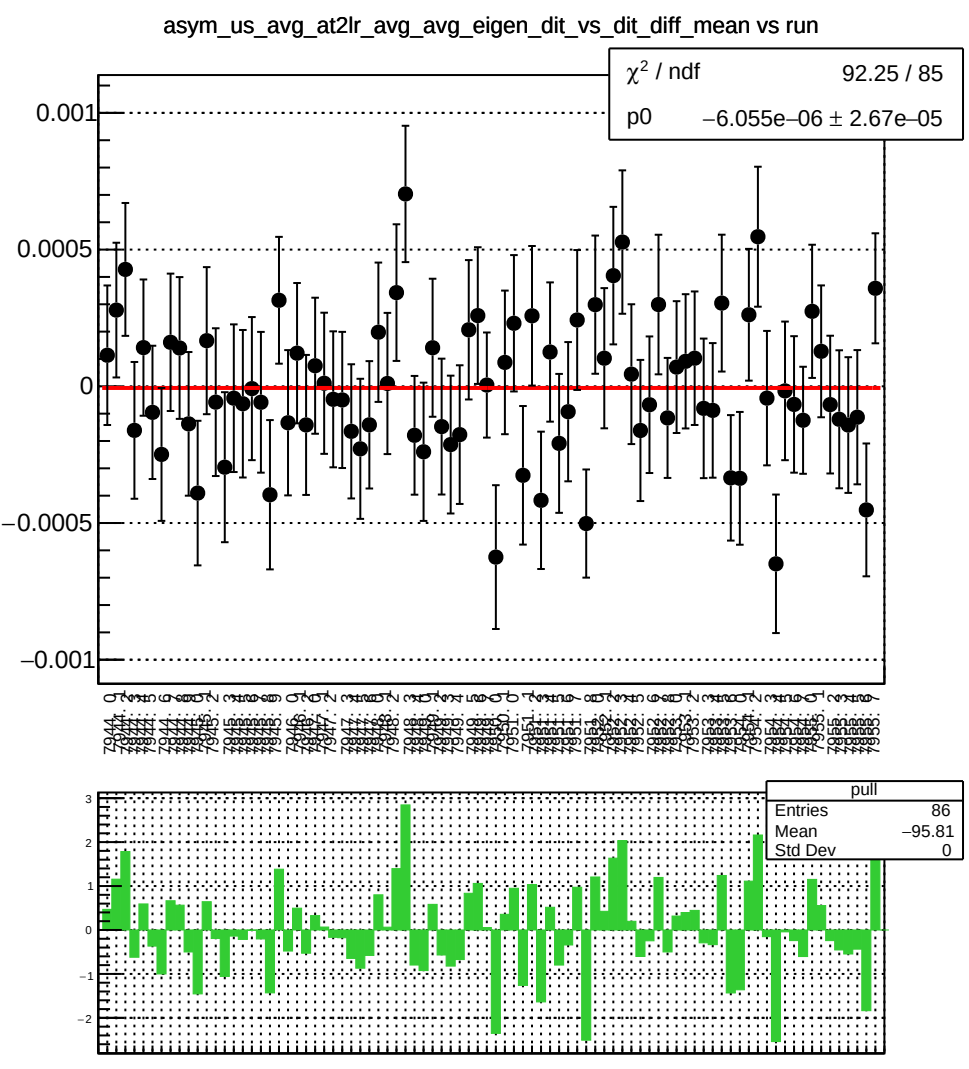

pull1D
Entries 86
Mean −0.008223
Std Dev 0.8439

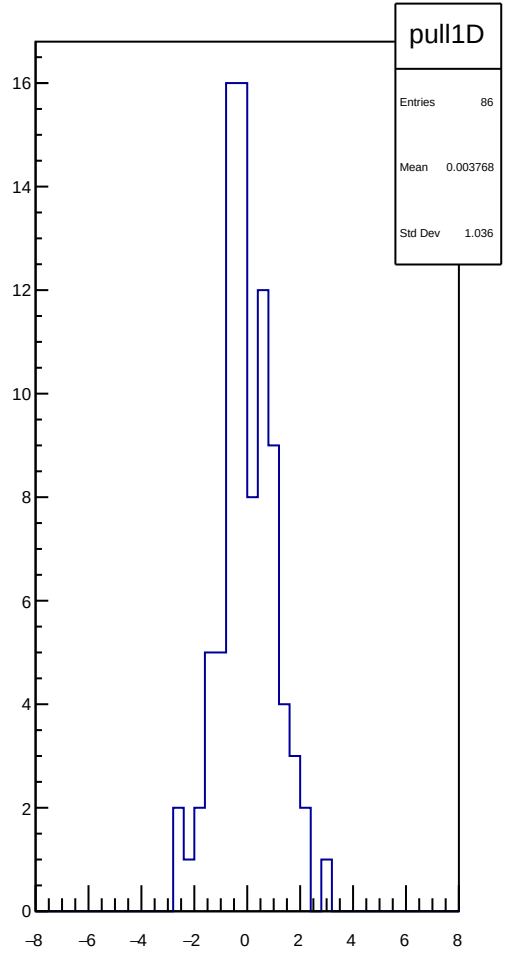

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.818e+04 / 85
p0 459.6 ± 0.3678
1100
1000
900
800
700
600
500
400
300

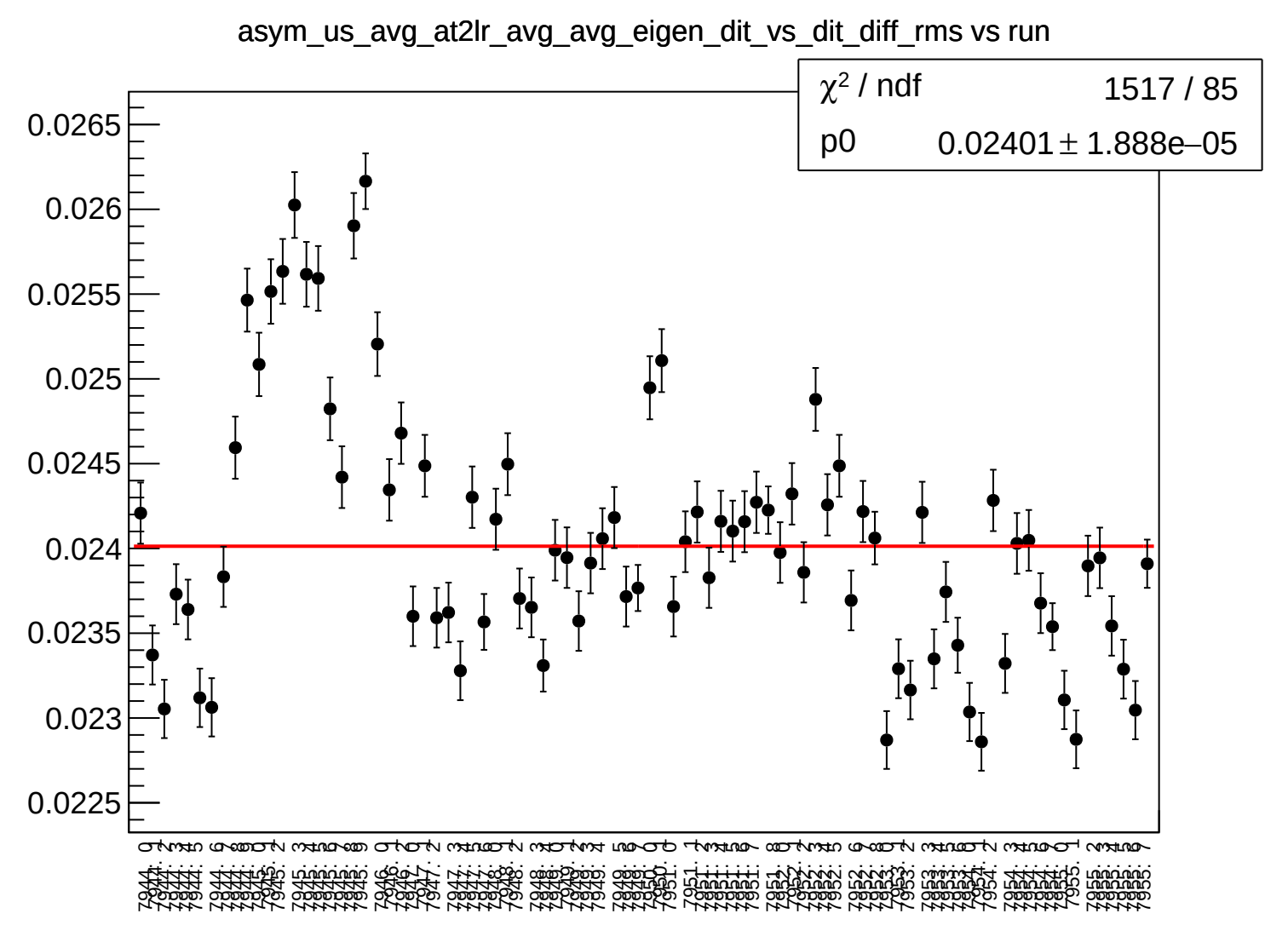

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.25 / 85
p0 0.4465 ± 0.5202
pull
Entries 86
Mean −66.03
Std Dev 0

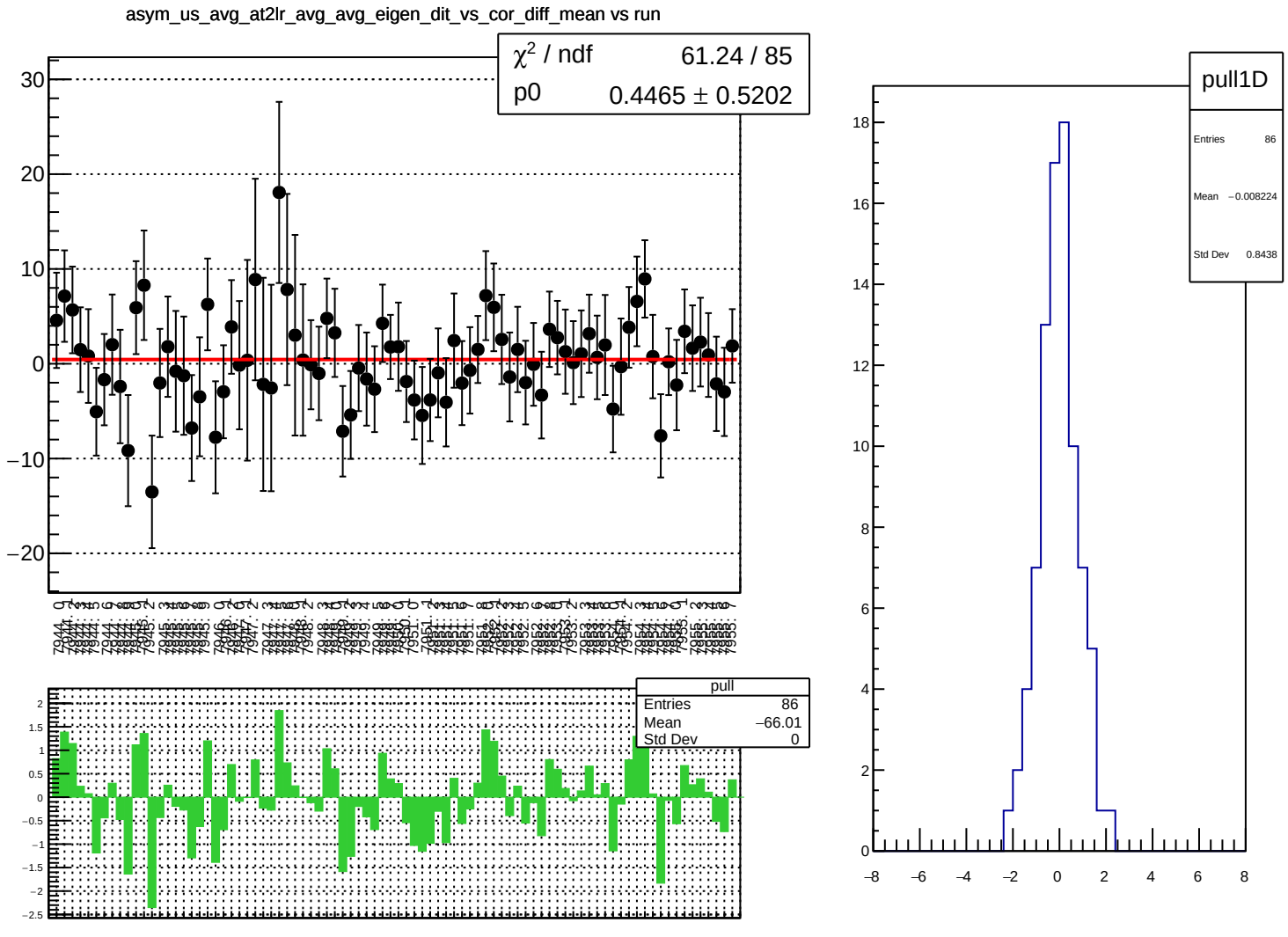

pull1D
Entries 86
Mean −0.008223
Std Dev 0.8439

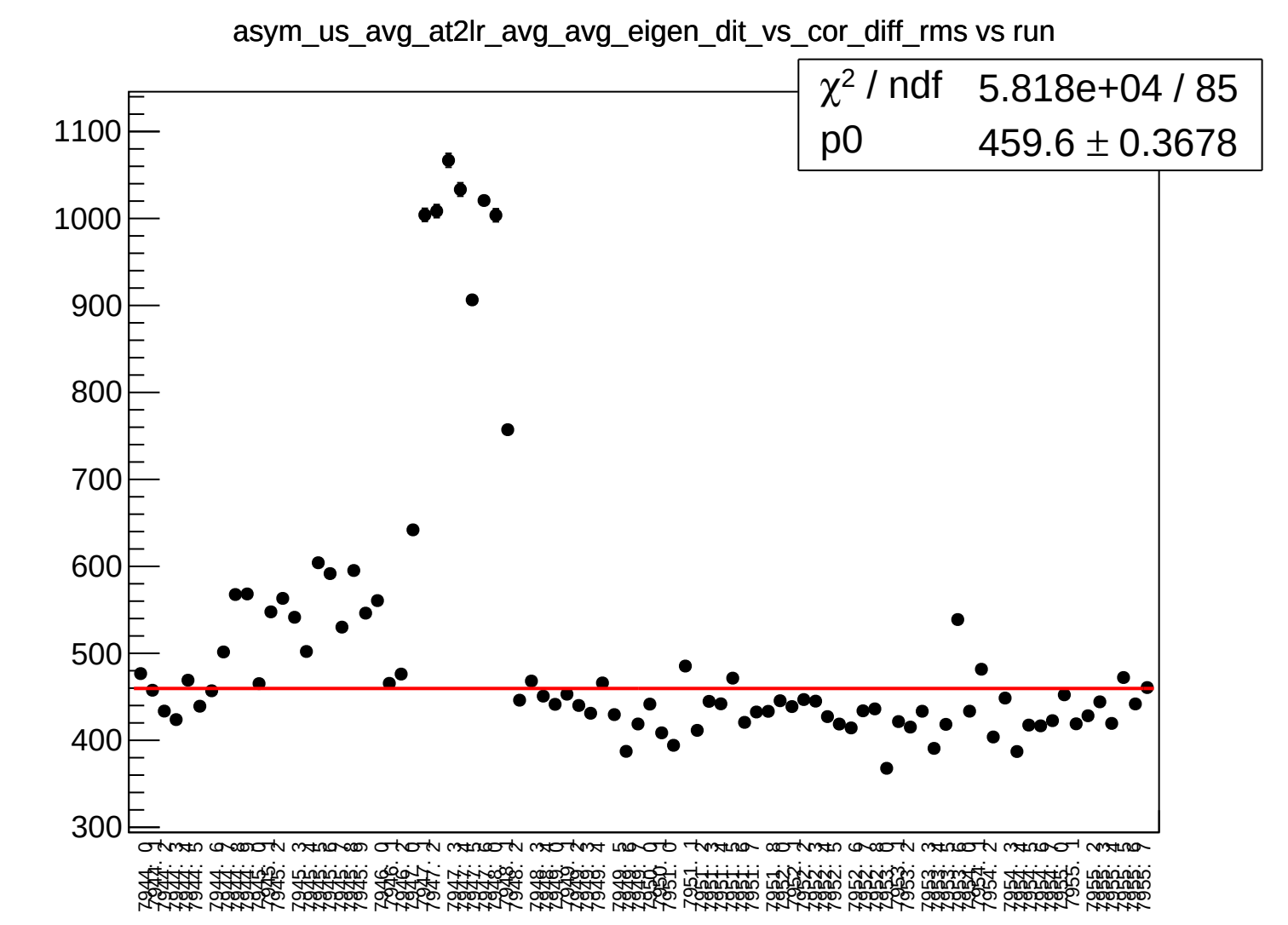

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.818e+04 / 85
p0 459.6 ± 0.3678
1100
1000
900
800
700
600
500
400
300

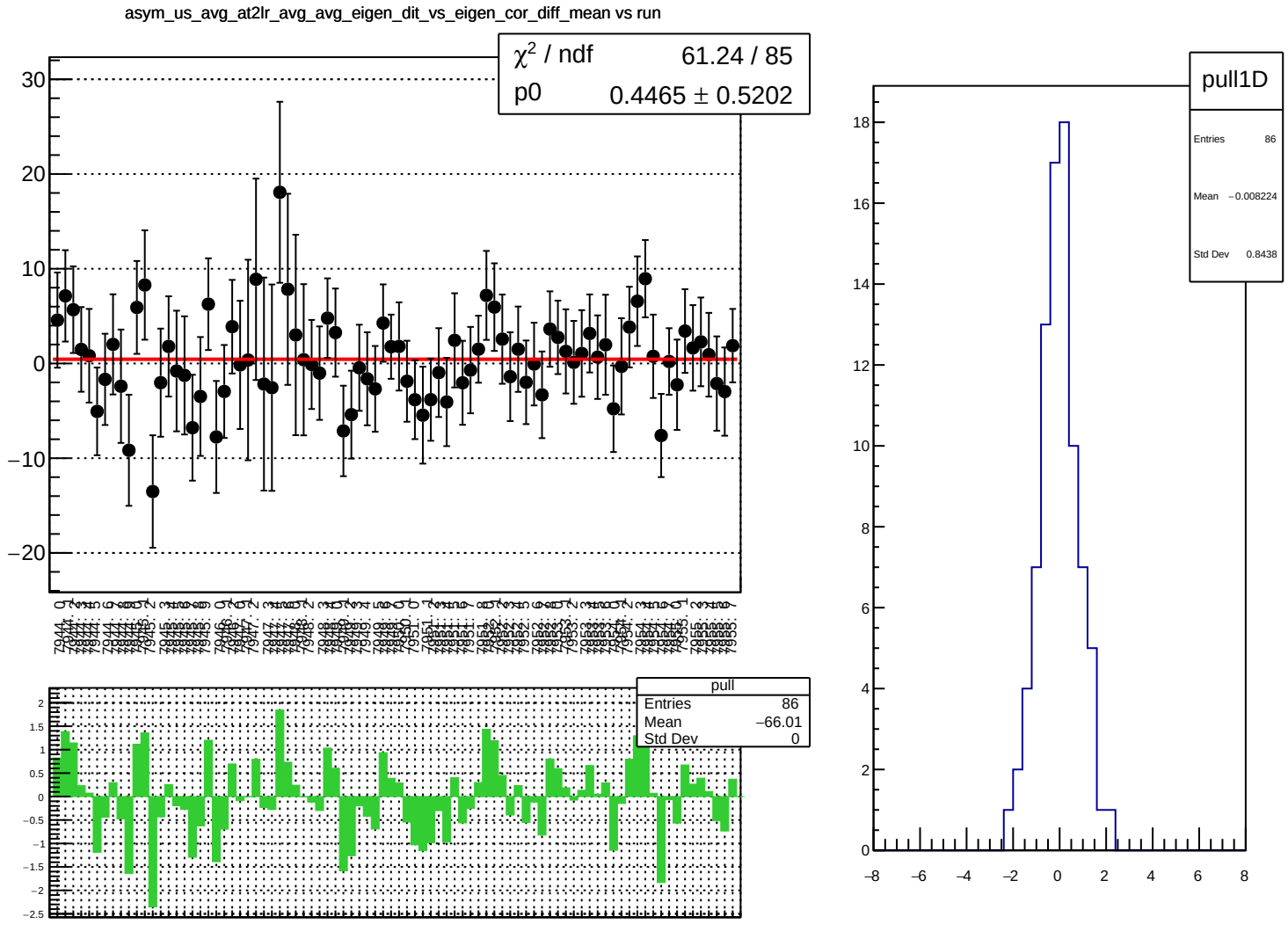

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 92.25 / 85
p0 −6.055e−06 ± 2.67e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean −95.81
Std Dev 0
3
2
1
0
−1
−2

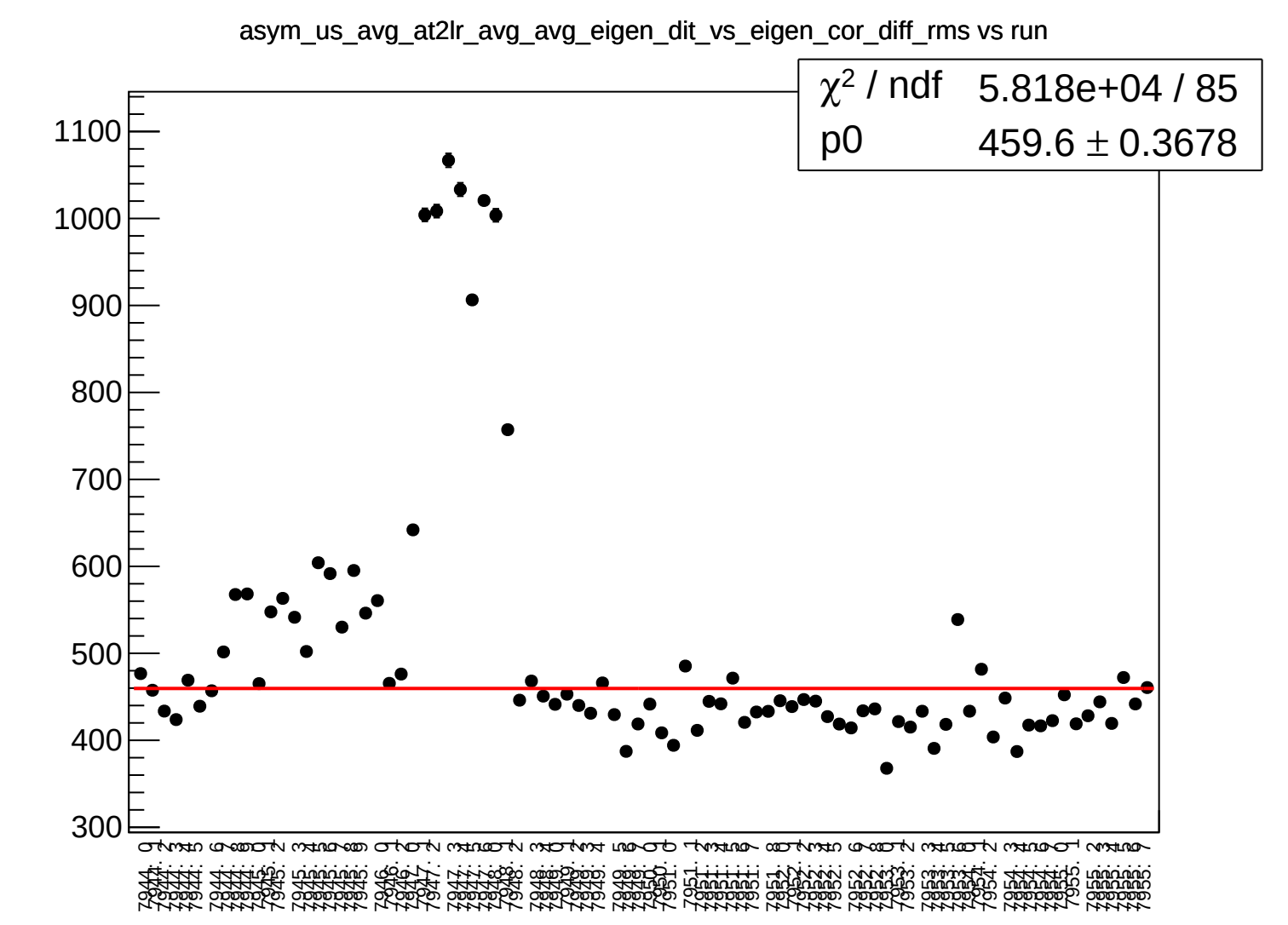

pull1D
Entries 86
Mean 0.003768
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

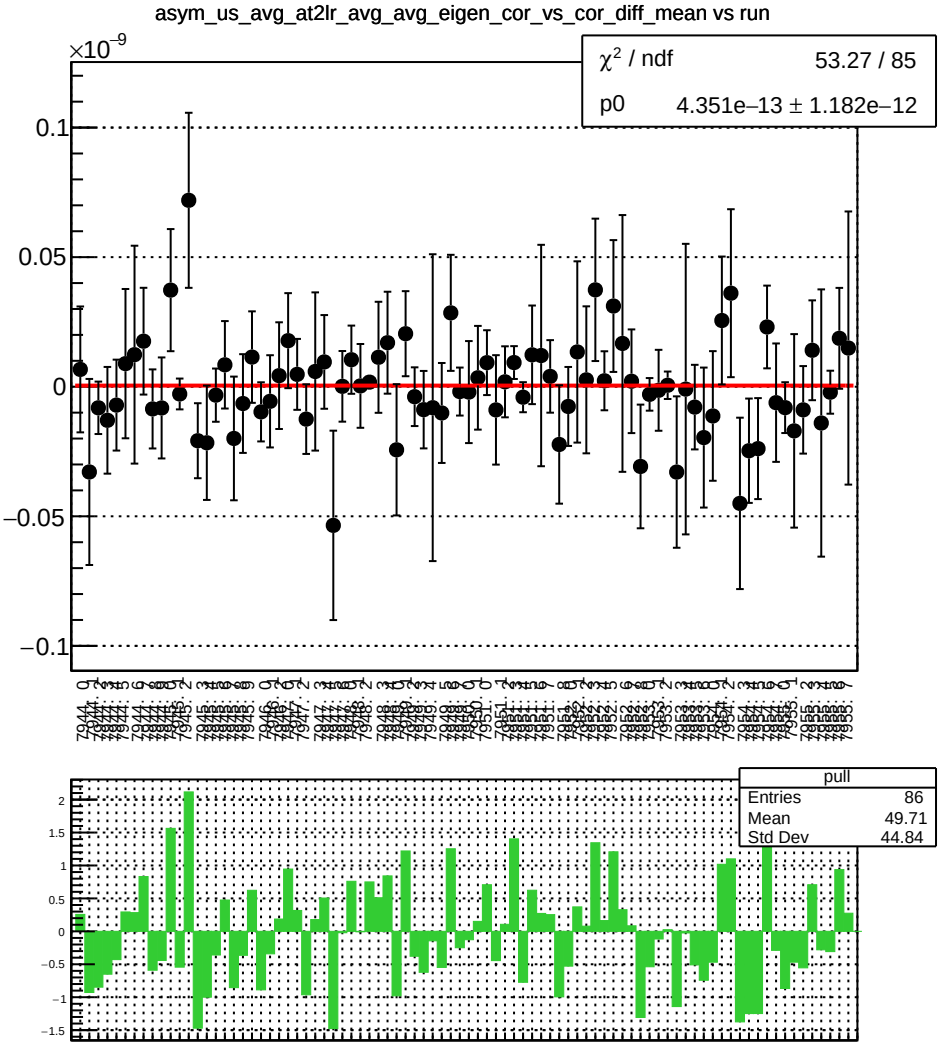

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1517 / 85
p0 0.02401 ± 1.888e−05
0.0265
0.026
0.0255
0.025
0.0245
0.024
0.0235
0.023
0.0225

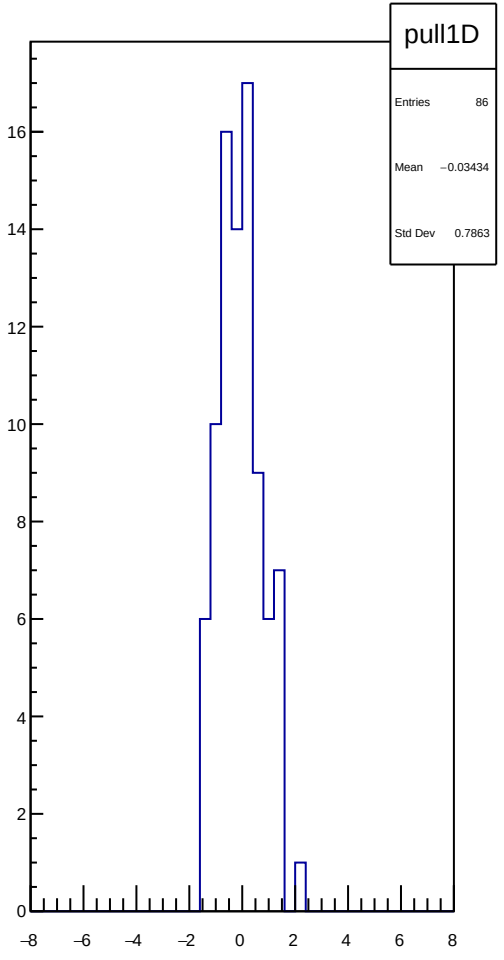

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.24 / 85
p0 0.4465 ± 0.5202
pull
Entries 86
Mean −66.01
Std Dev 0
pull1D
Entries 86
Mean −0.008224
Std Dev 0.8438

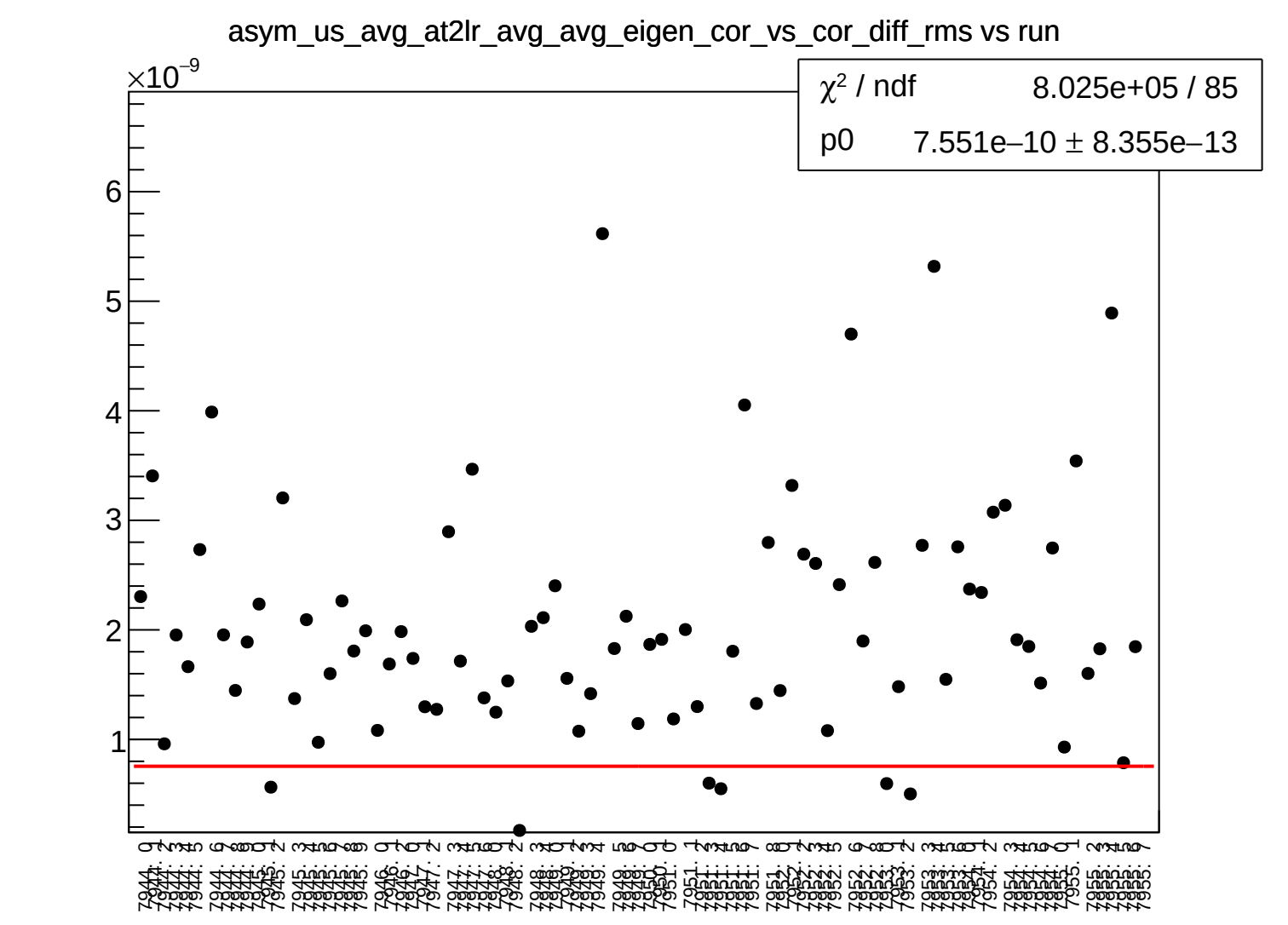

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.818e+04 / 85
p0 459.6 ± 0.3678
1100
1000
900
800
700
600
500
400
300

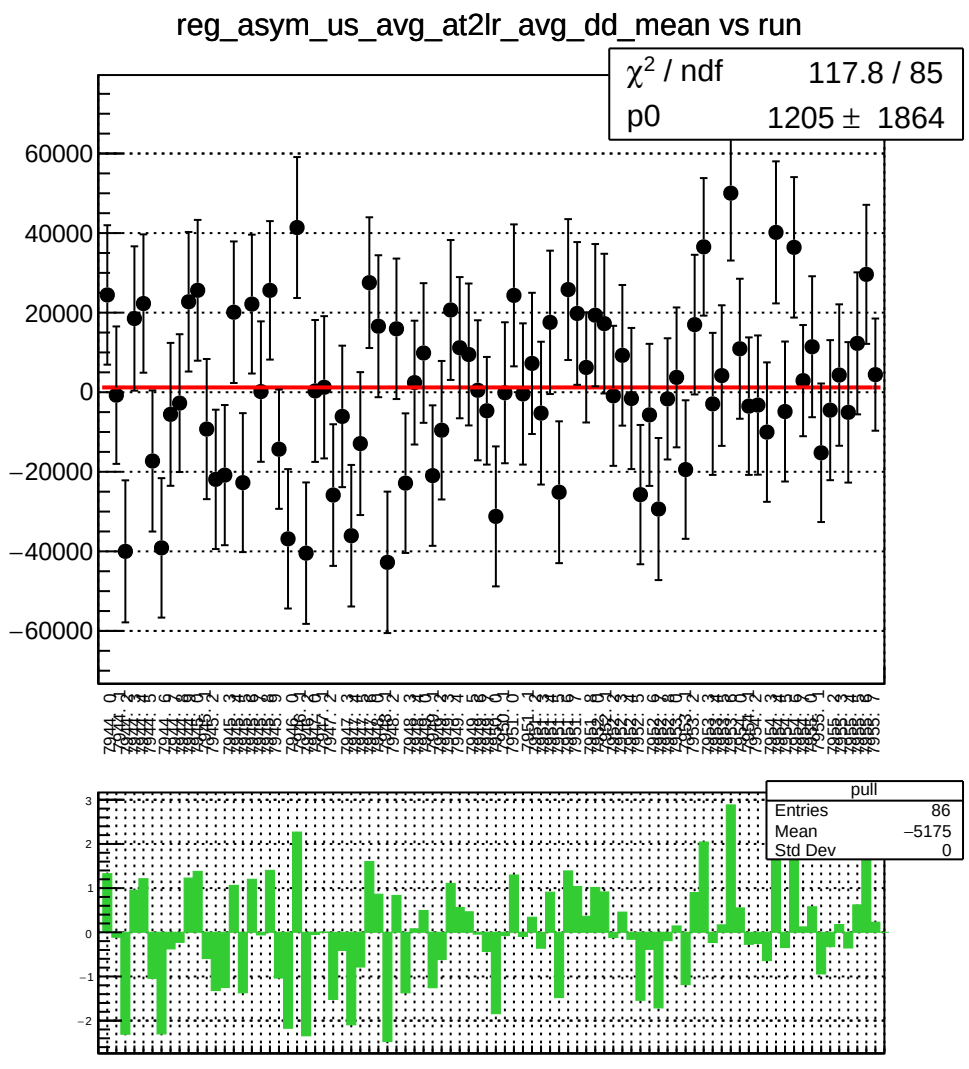

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.24 / 85
p0 0.4465 ± 0.5202
pull
Entries 86
Mean −66.01
Std Dev 0
pull1D
Entries 86
Mean −0.008224
Std Dev 0.8438

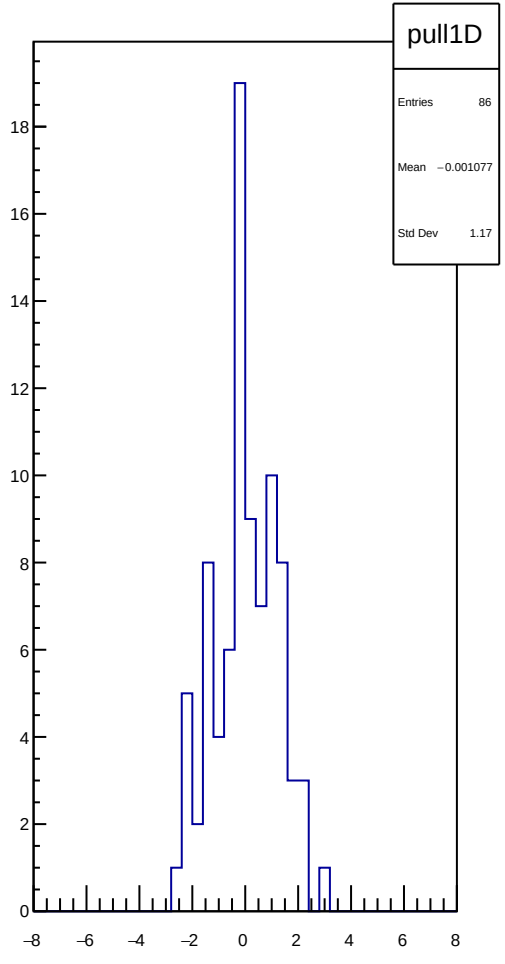

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.818e+04 / 85
p0 459.6 ± 0.3678
1100
1000
900
800
700
600
500
400
300

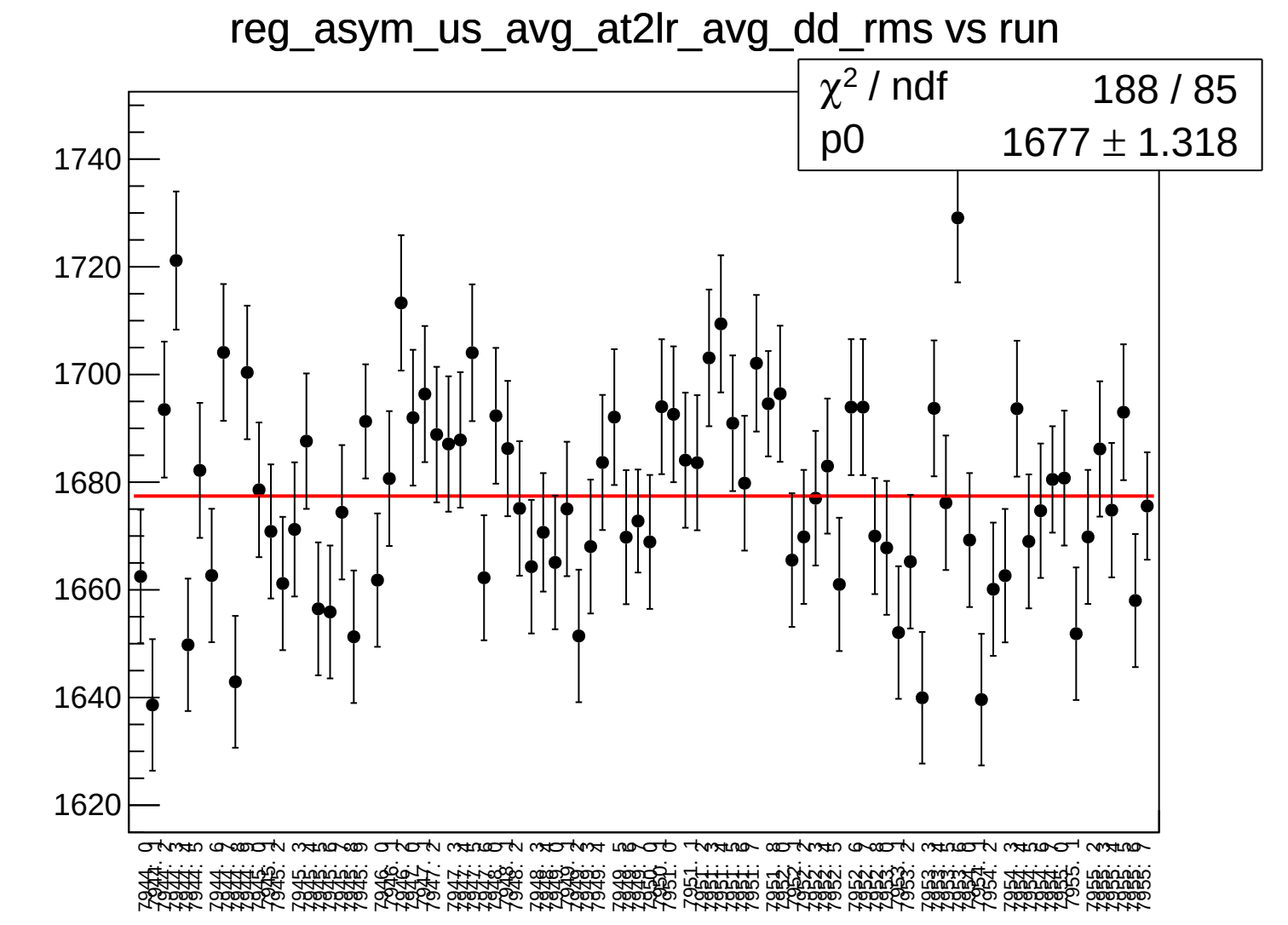

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 53.27 / 85
p0 4.351e−13 ± 1.182e−12
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 49.71
Std Dev 44.84
2
1.5
1
0.5
0
−0.5
−1
−1.5

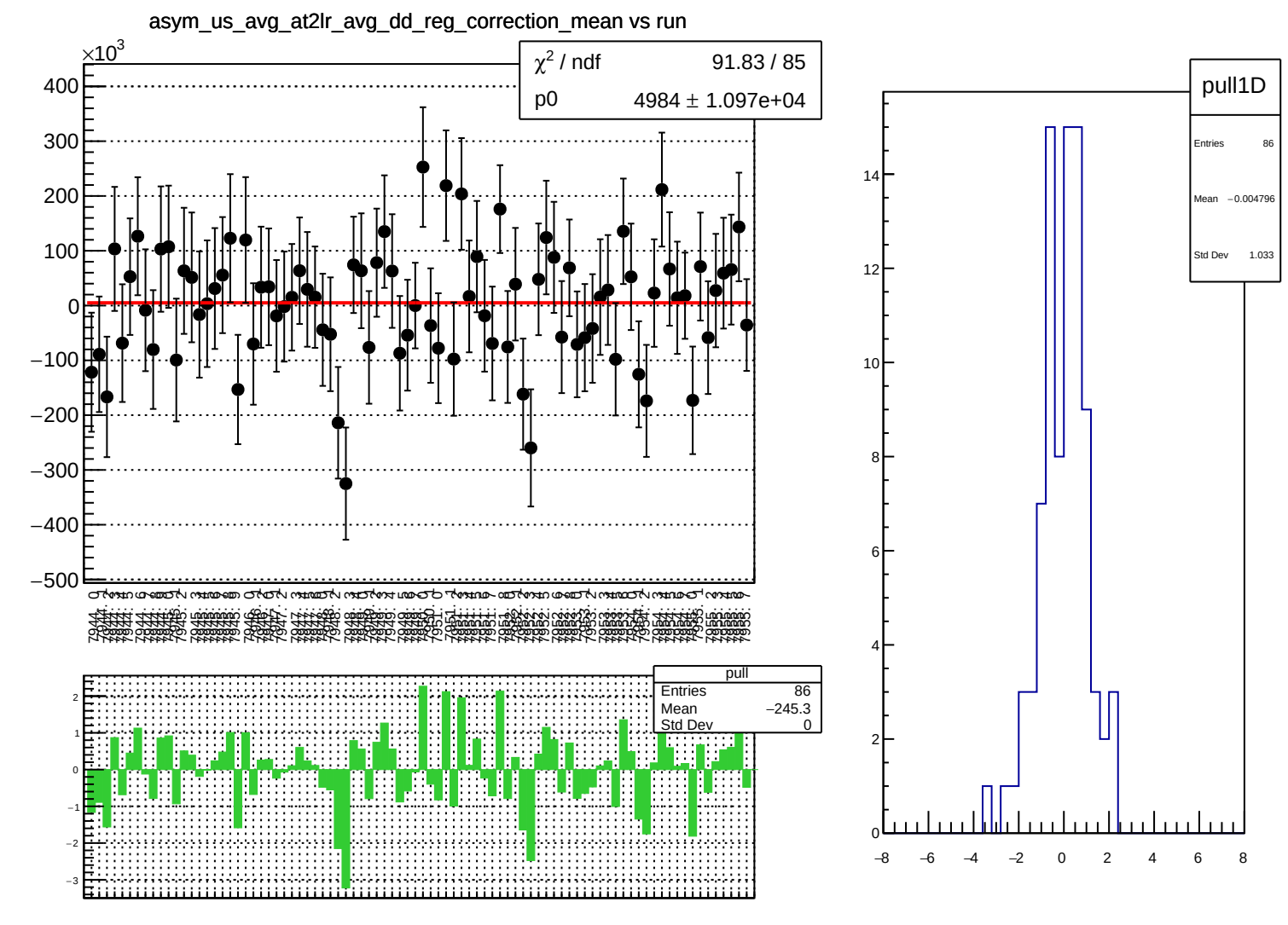

pull1D
Entries 86
Mean −0.03434
Std Dev 0.7863
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

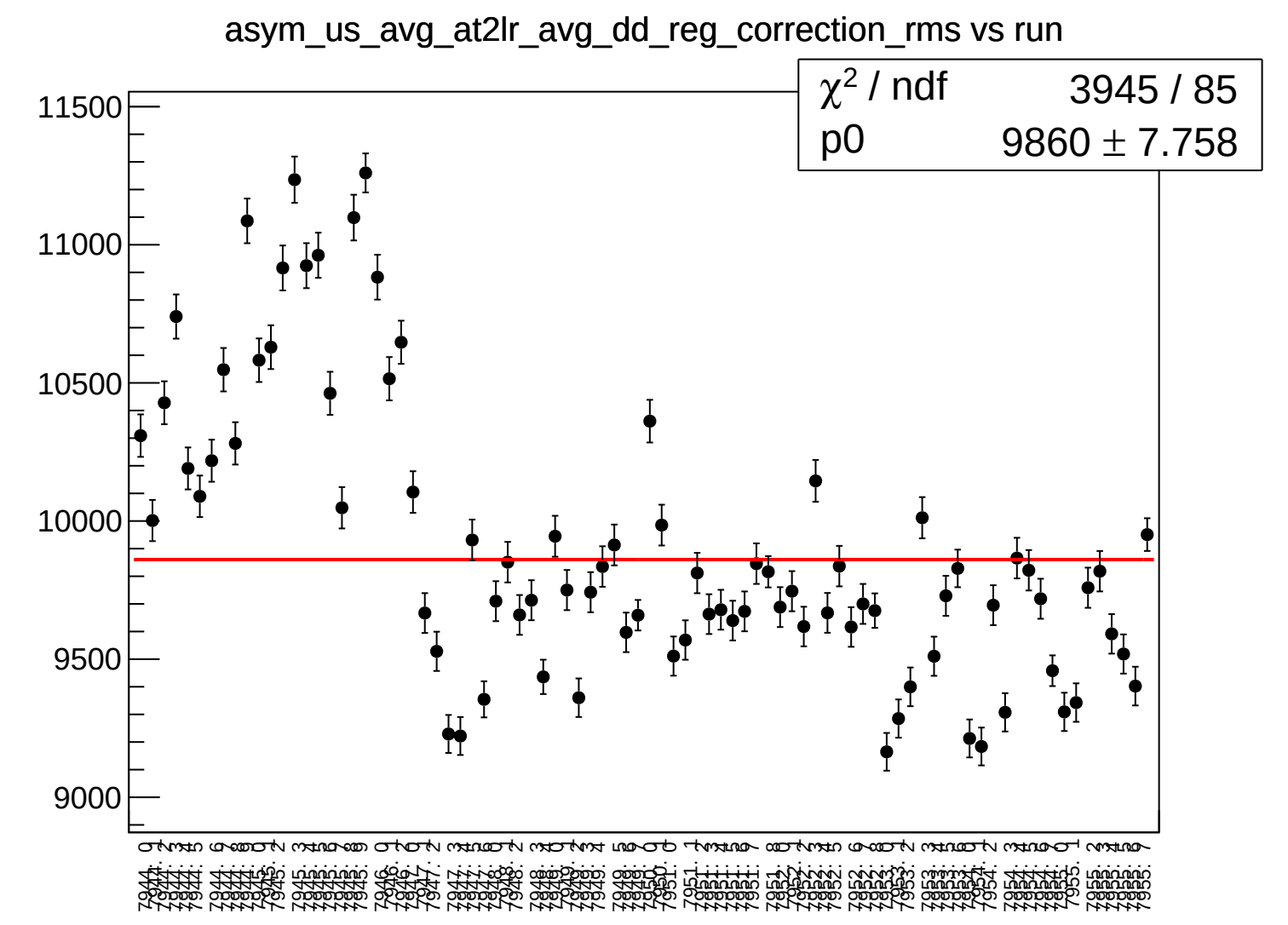

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.025e+05 / 85
p0 7.551e−10 ± 8.355e−13
6
5
4
3
2
1

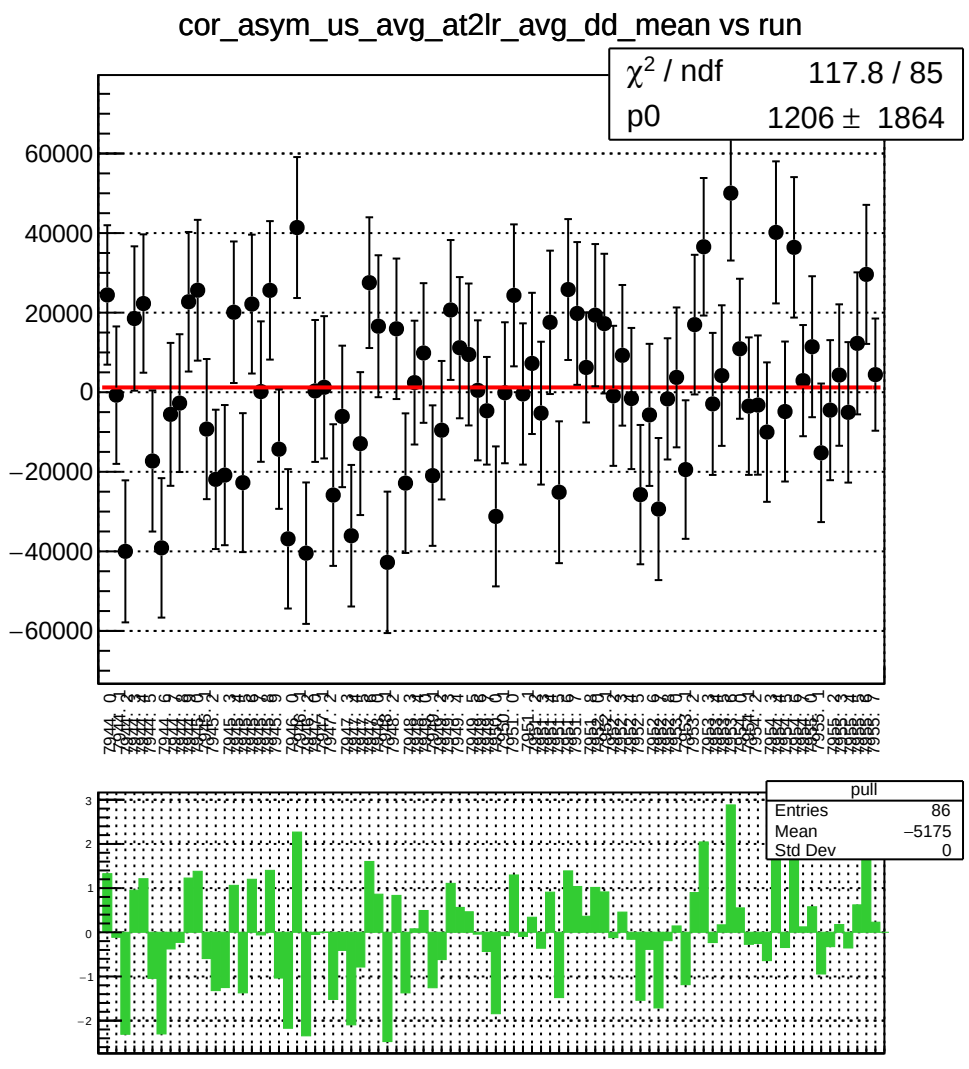

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 117.8 / 85
p0 1205 ± 1864
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −5175
Std Dev 0
3
2
1
0
−1
−2

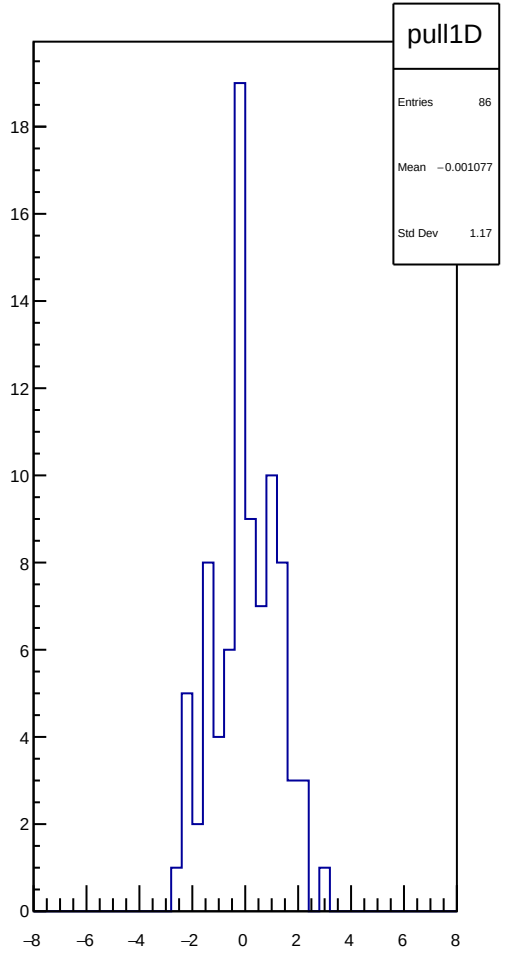

pull1D
Entries 86
Mean −0.001077
Std Dev 1.17
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

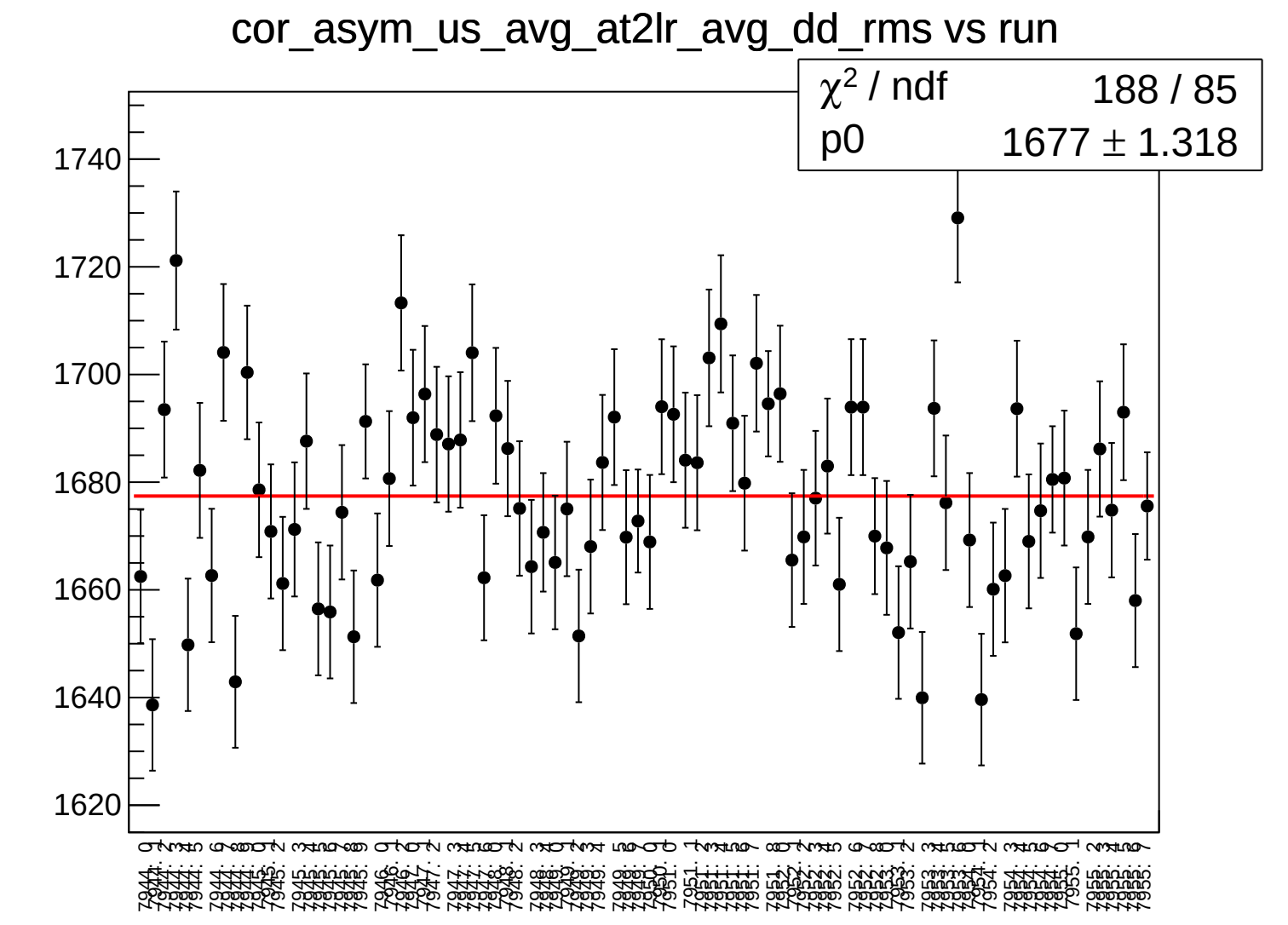

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 188 / 85
p0 1677 ± 1.318
1740
1720
1700
1680
1660
1640
1620

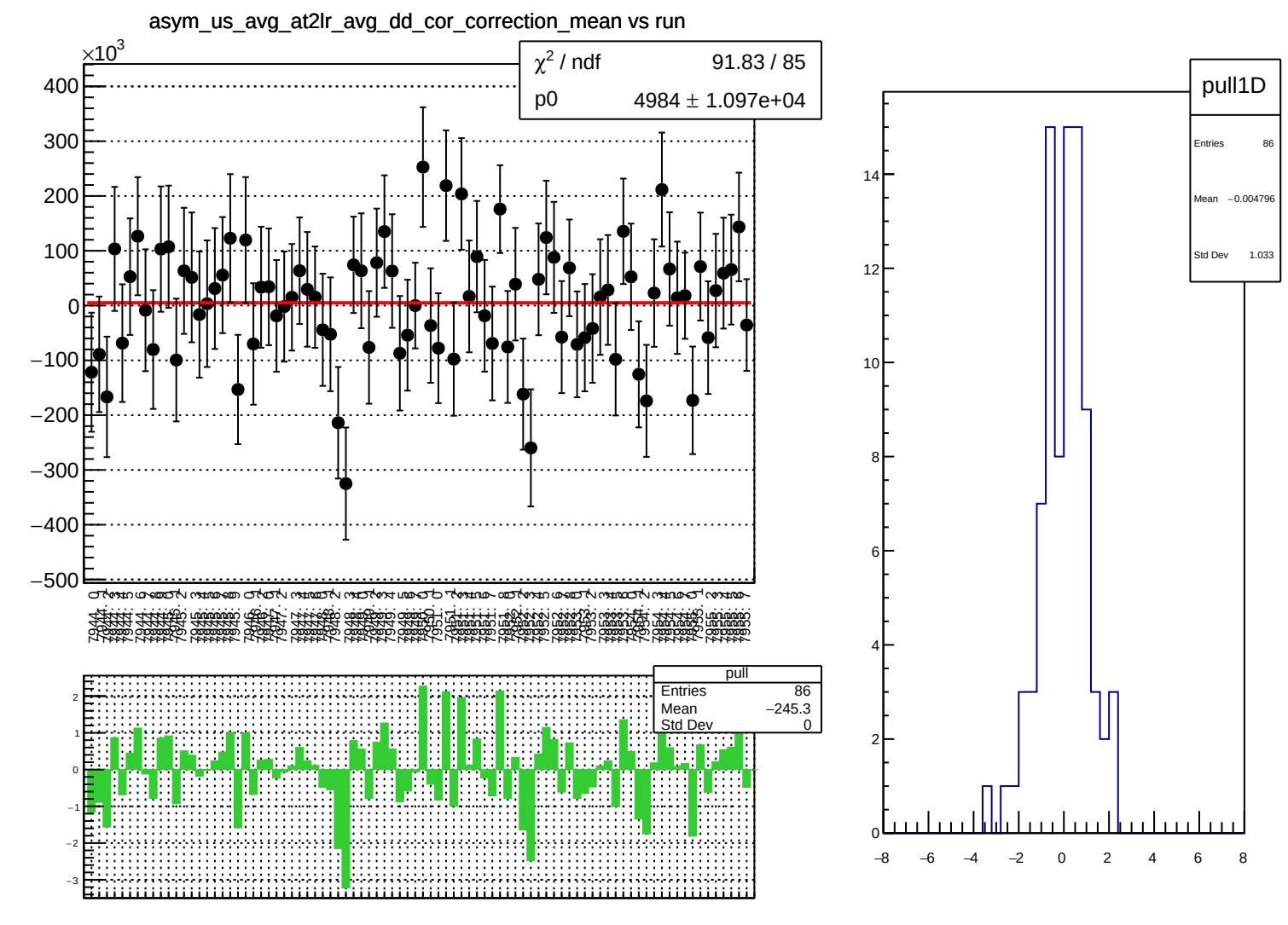

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.83 / 85
p0 4984 ± 1.097e+04
pull
Entries 86
Mean −245.3
Std Dev 0
pull1D
Entries 86
Mean −0.004796
Std Dev 1.033

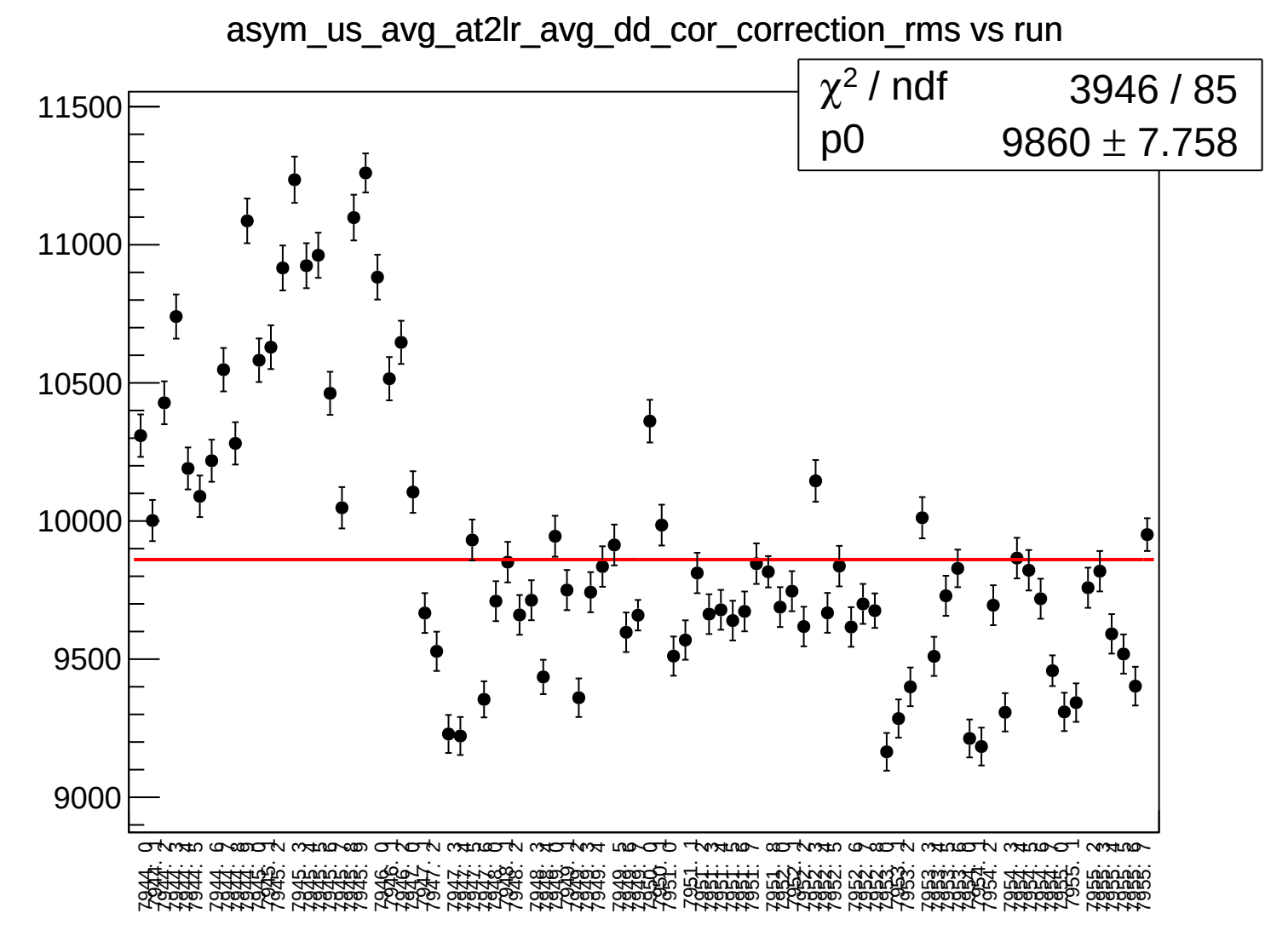

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3945 / 85
p0 9860 ± 7.758
11500
11000
10500
10000
9500
9000

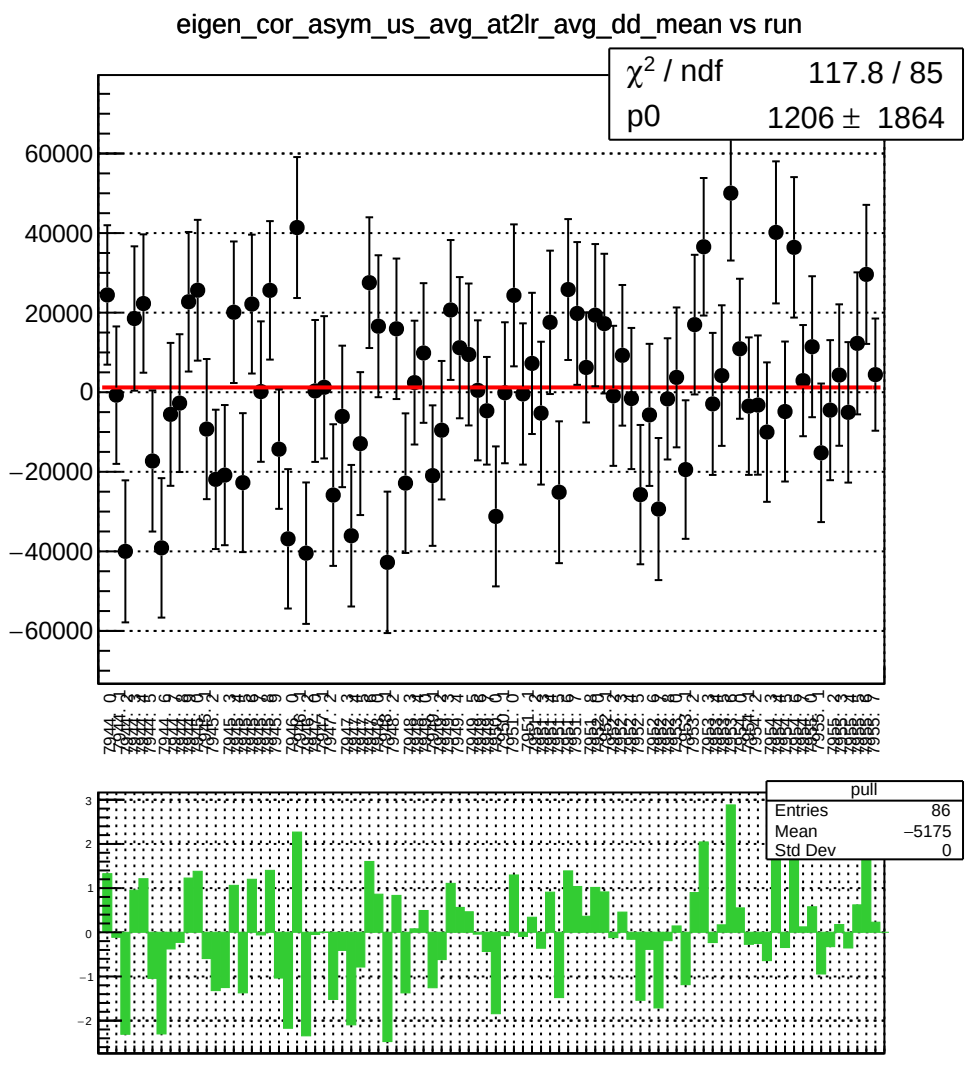

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 117.8 / 85
p0 1206 ± 1864
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −5175
Std Dev 0
3
2
1
0
−1
−2

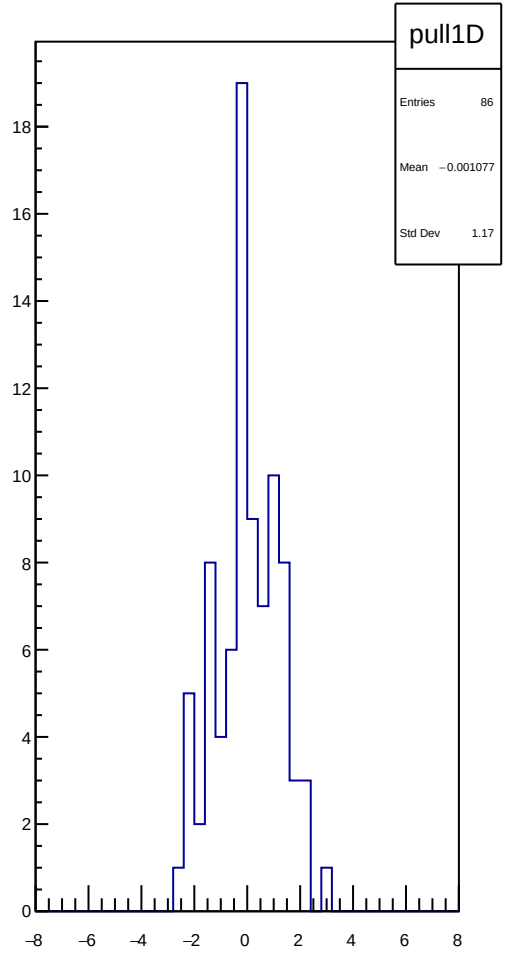

pull1D
Entries 86
Mean −0.001077
Std Dev 1.17
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

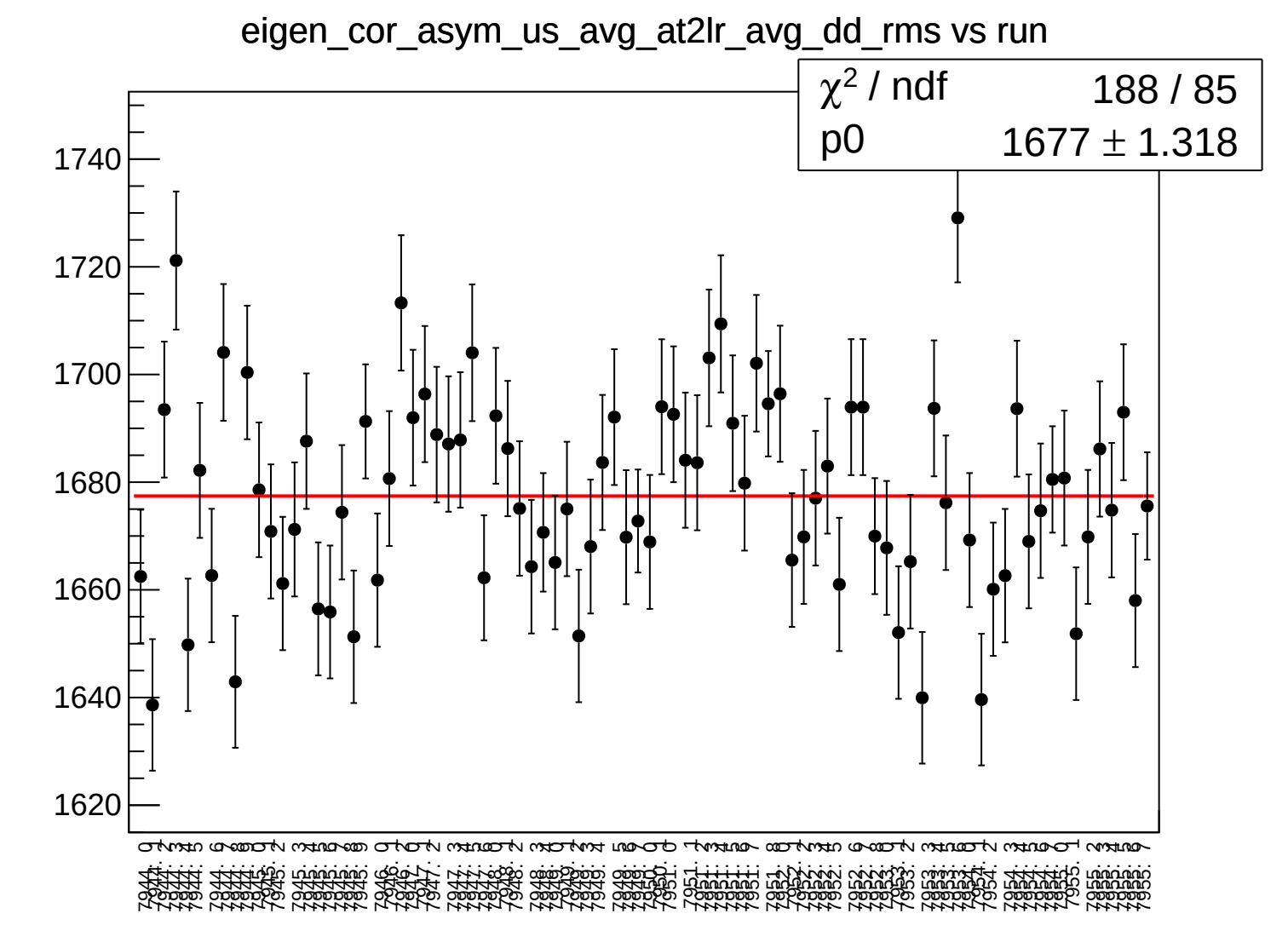

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 188 / 85
p0 1677 ± 1.318
1740
1720
1700
1680
1660
1640
1620

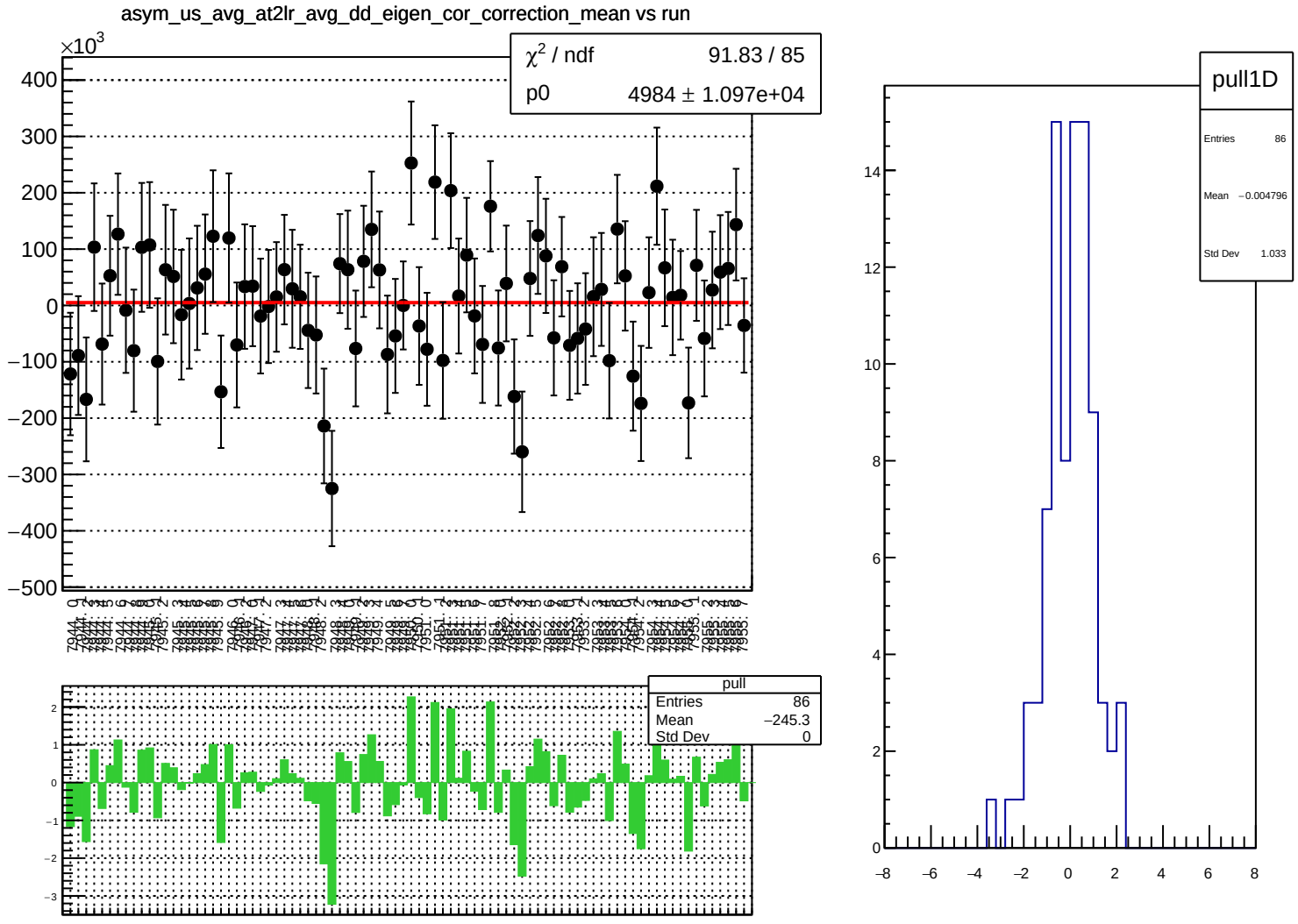

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.83 / 85
p0 4984 ± 1.097e+04
pull
Entries 86
Mean −245.3
Std Dev 0
pull1D
Entries 86
Mean −0.004796
Std Dev 1.033

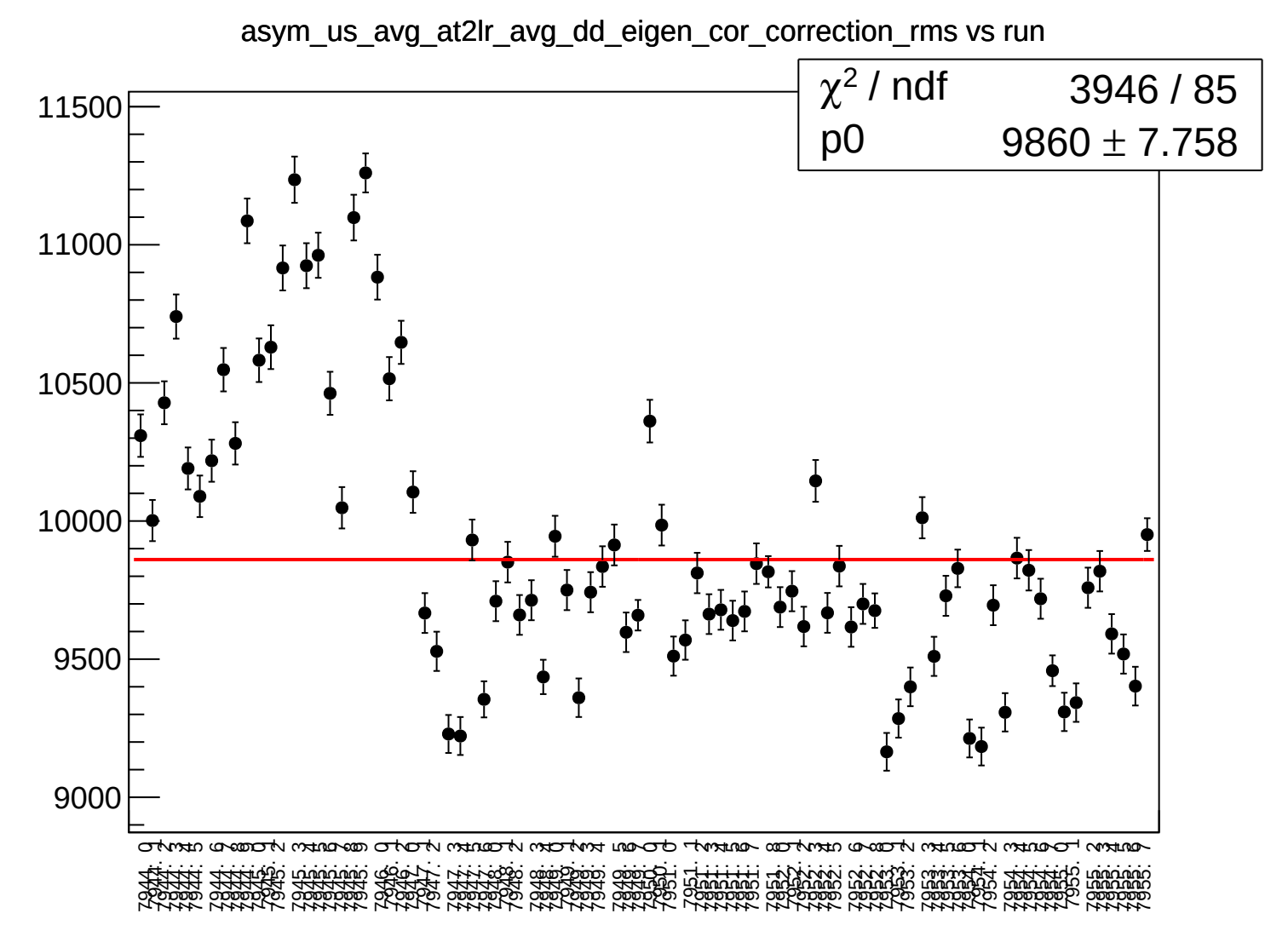

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 3946 / 85
p0 9860 ± 7.758
11500
11000
10500
10000
9500
9000

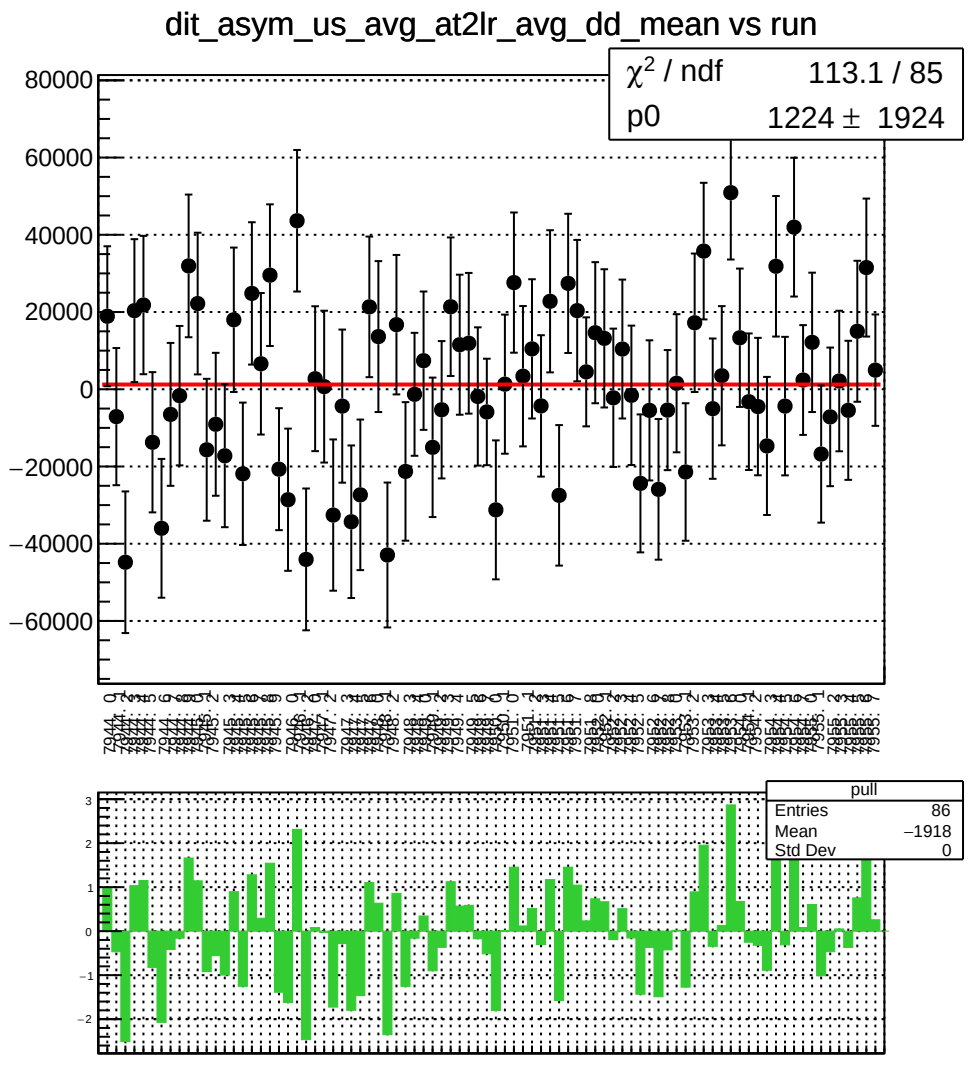

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 117.8 / 85
p0 1206 ± 1864
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −5175
Std Dev 0
3
2
1
0
−1
−2

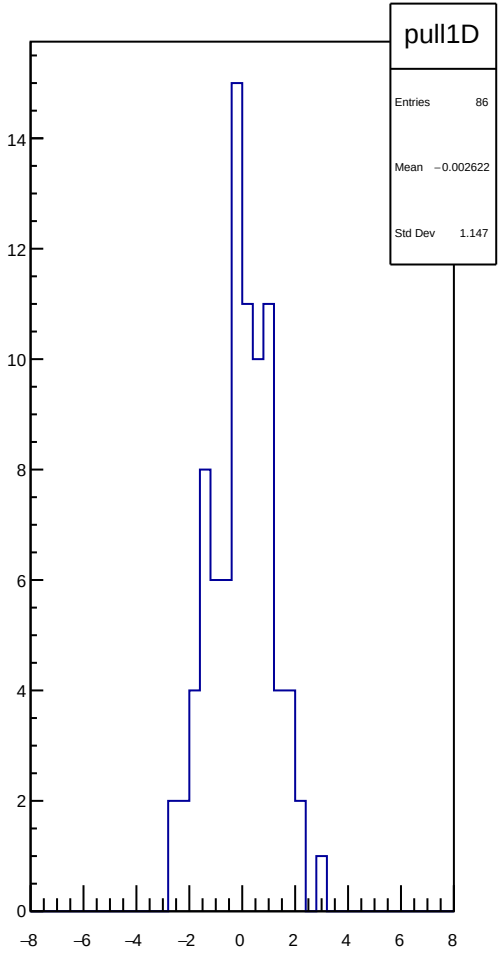

pull1D
Entries 86
Mean −0.001077
Std Dev 1.17
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

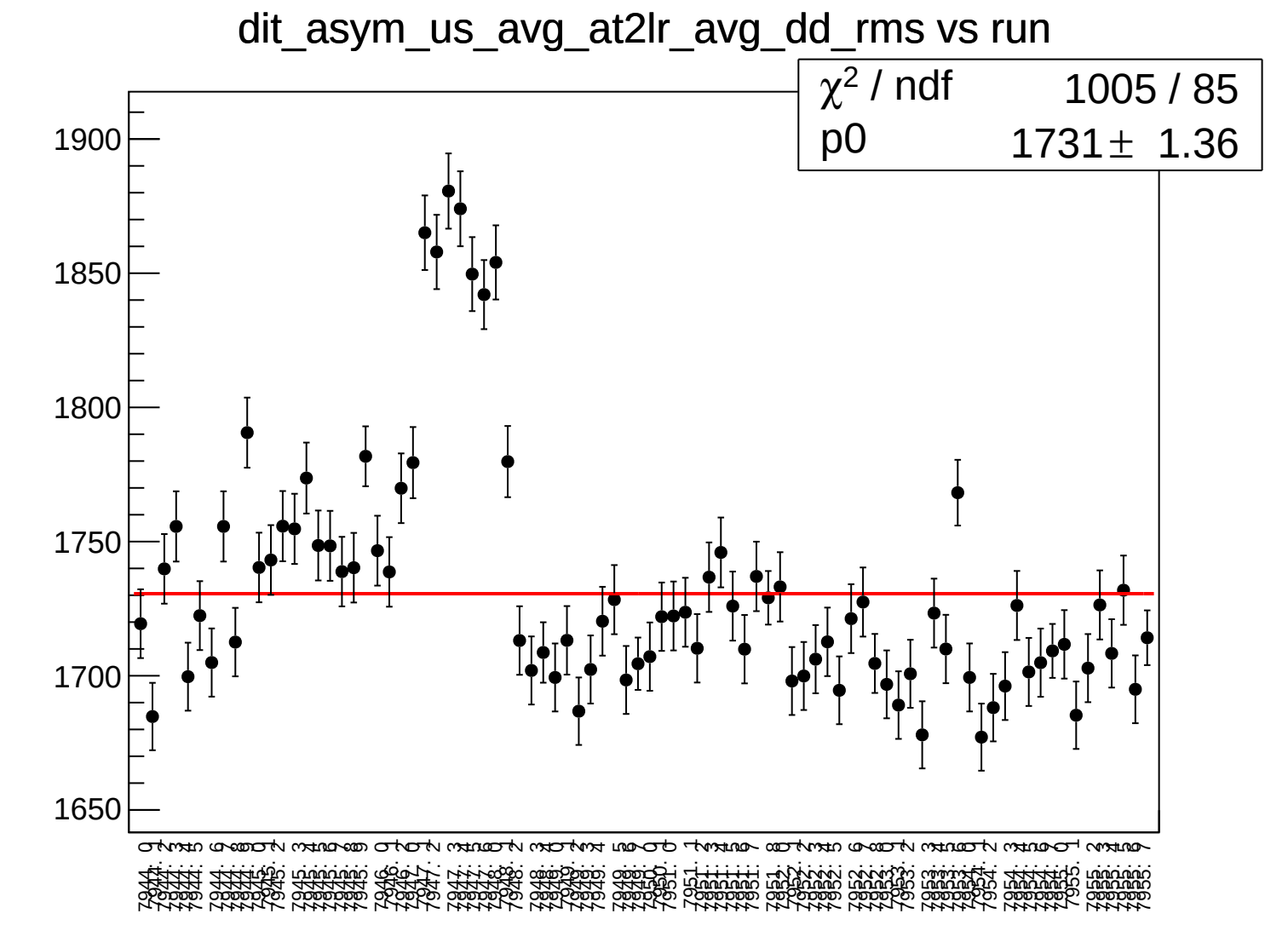

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 188 / 85
p0 1677 ± 1.318
1740
1720
1700
1680
1660
1640
1620

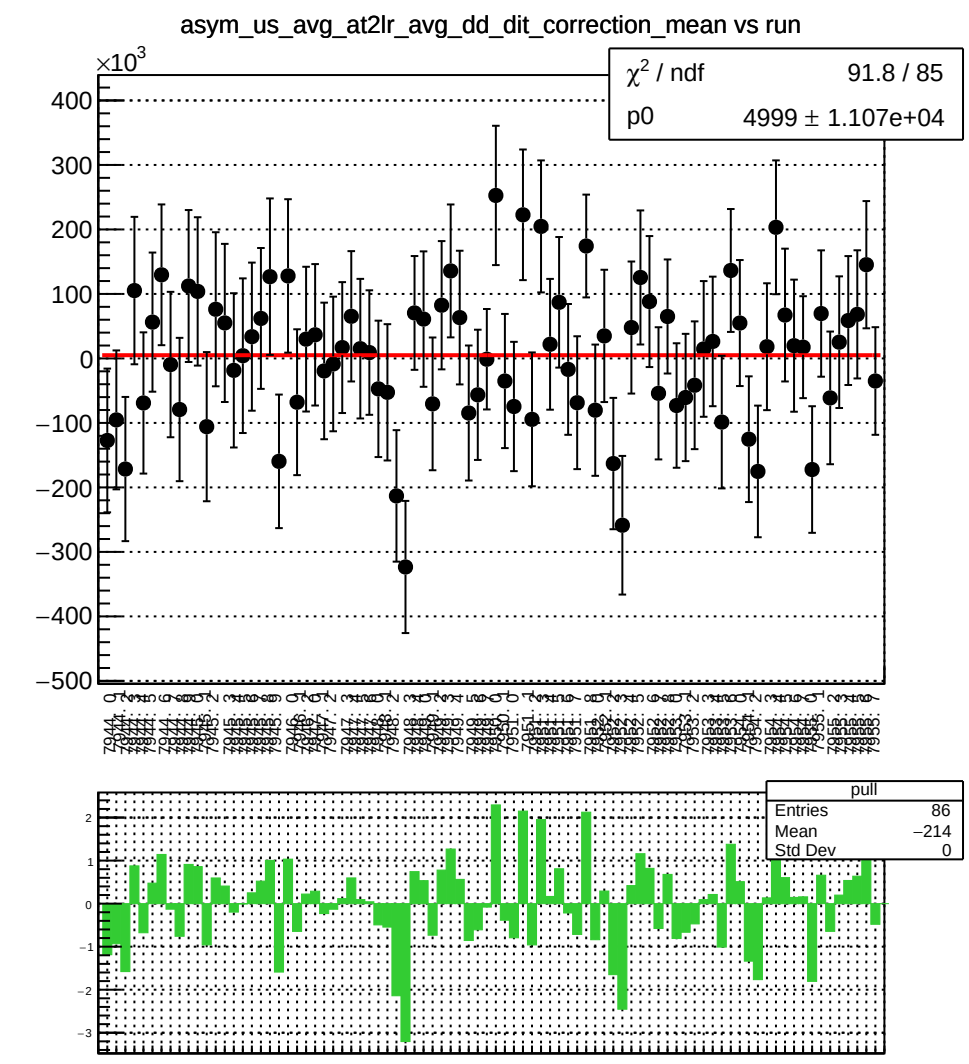

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.83 / 85
p0 4984 ± 1.097e+04
pull
Entries 86
Mean −245.3
Std Dev 0
pull1D
Entries 86
Mean −0.004796
Std Dev 1.033

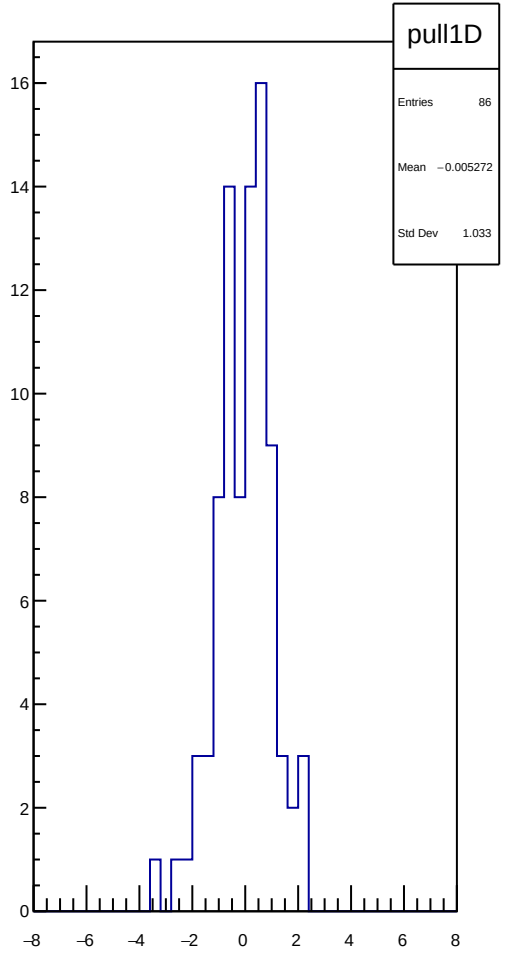

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 3946 / 85
p0 9860 ± 7.758
11500
11000
10500
10000
9500
9000

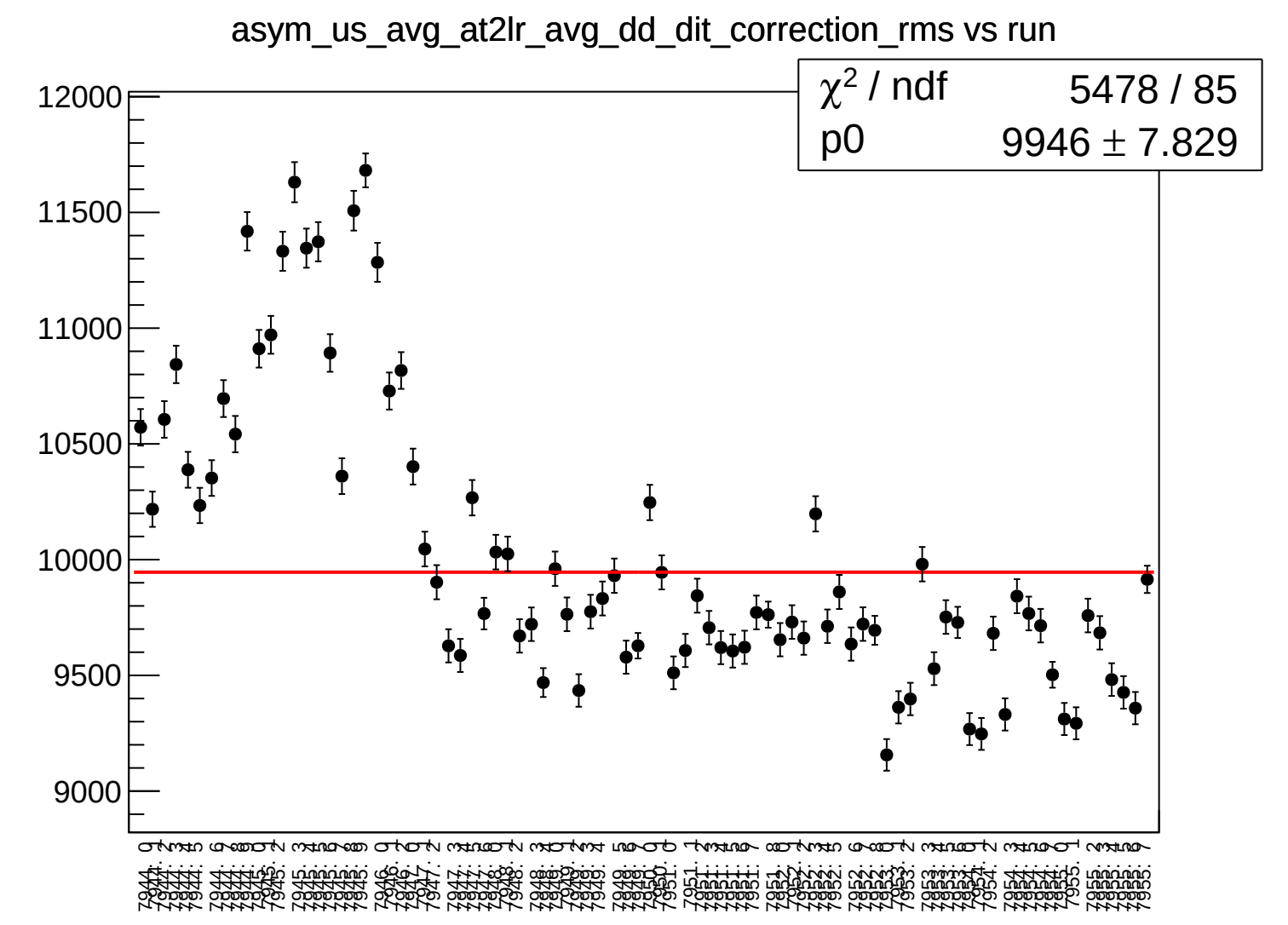

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 113.1 / 85
p0 1224 ± 1924
pull
Entries 86
Mean −1918
Std Dev 0

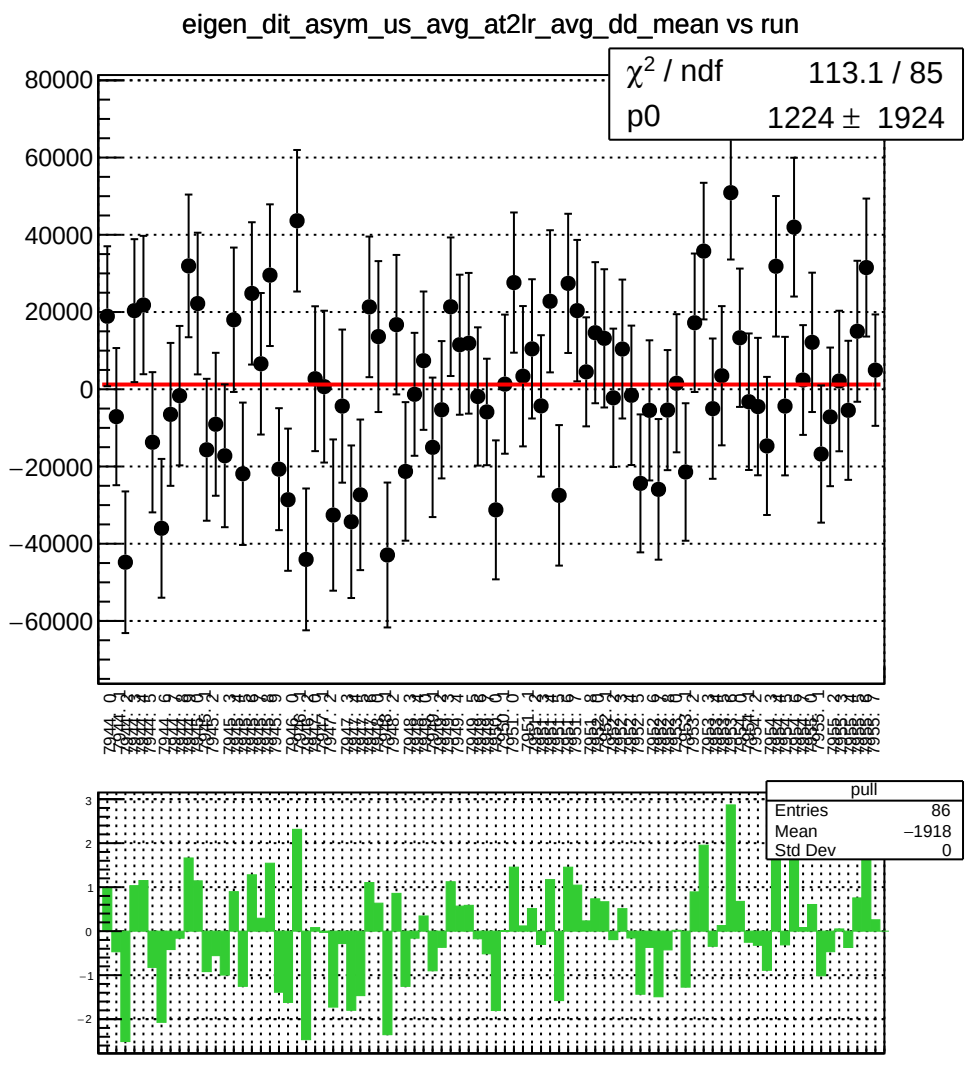

pull1D
Entries 86
Mean −0.002622
Std Dev 1.147

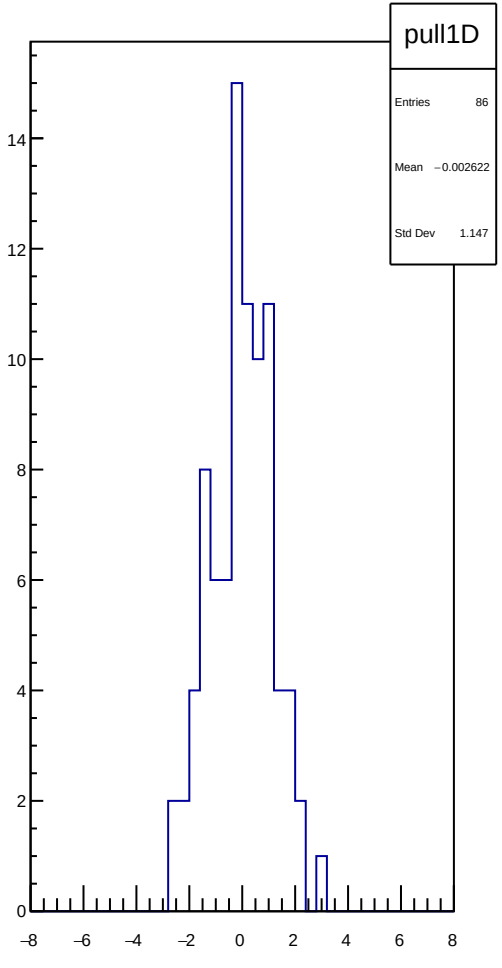

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1005 / 85
p0 1731 ± 1.36
1900
1850
1800
1750
1700
1650

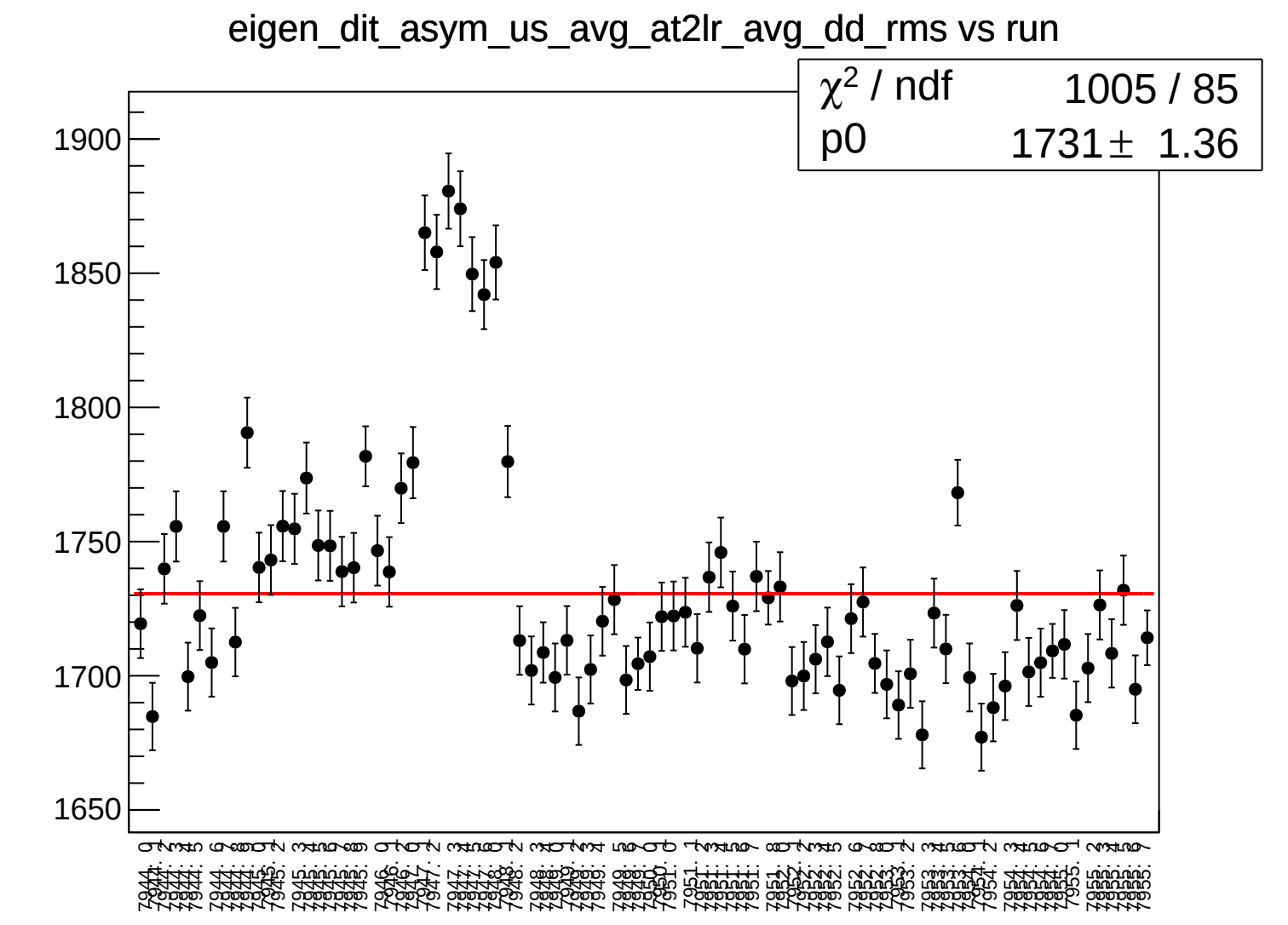

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 91.8 / 85
p0 4999 ± 1.107e+04
pull
Entries 86
Mean −214
Std Dev 0

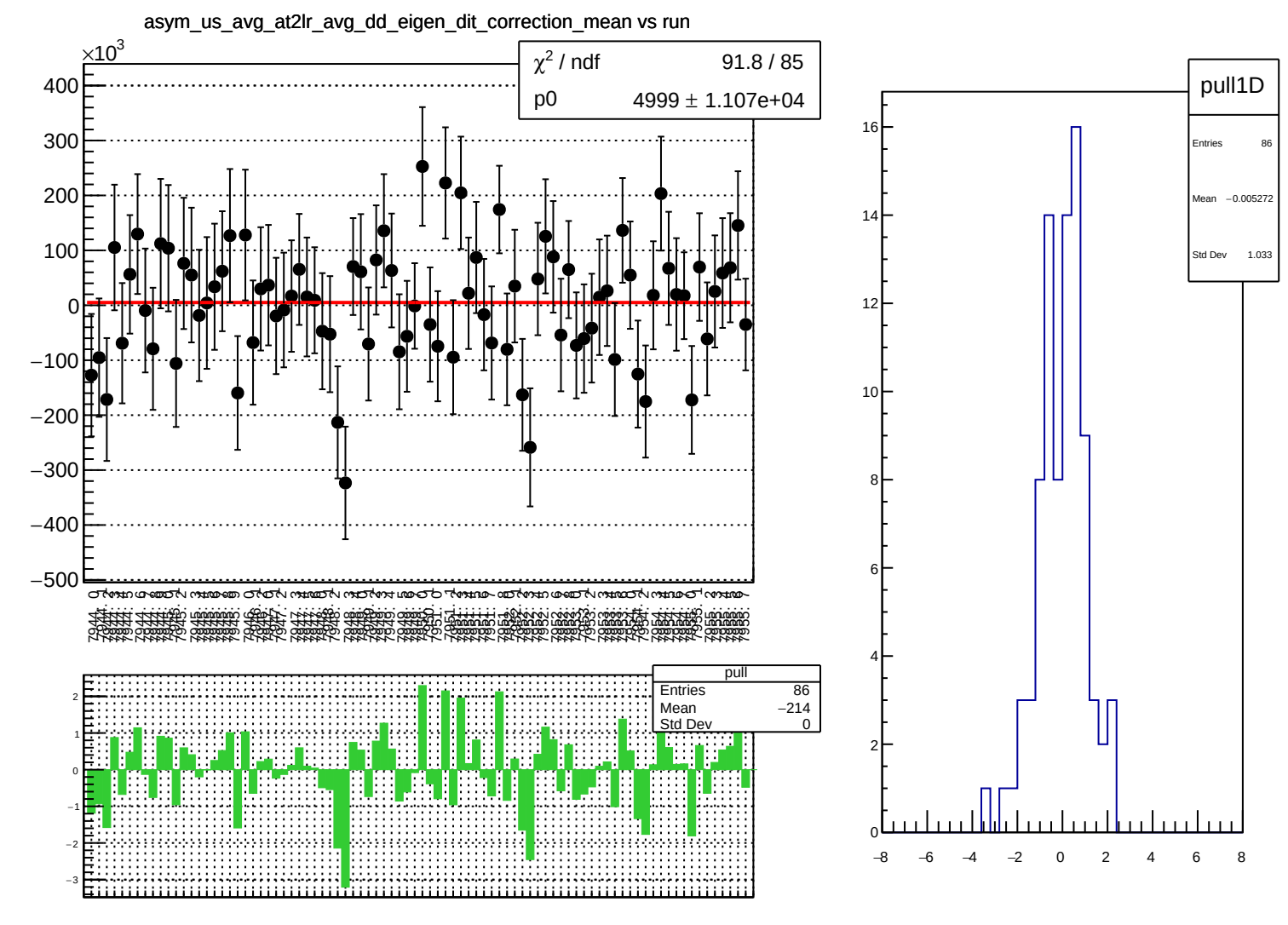

pull1D
Entries 86
Mean −0.005272
Std Dev 1.033

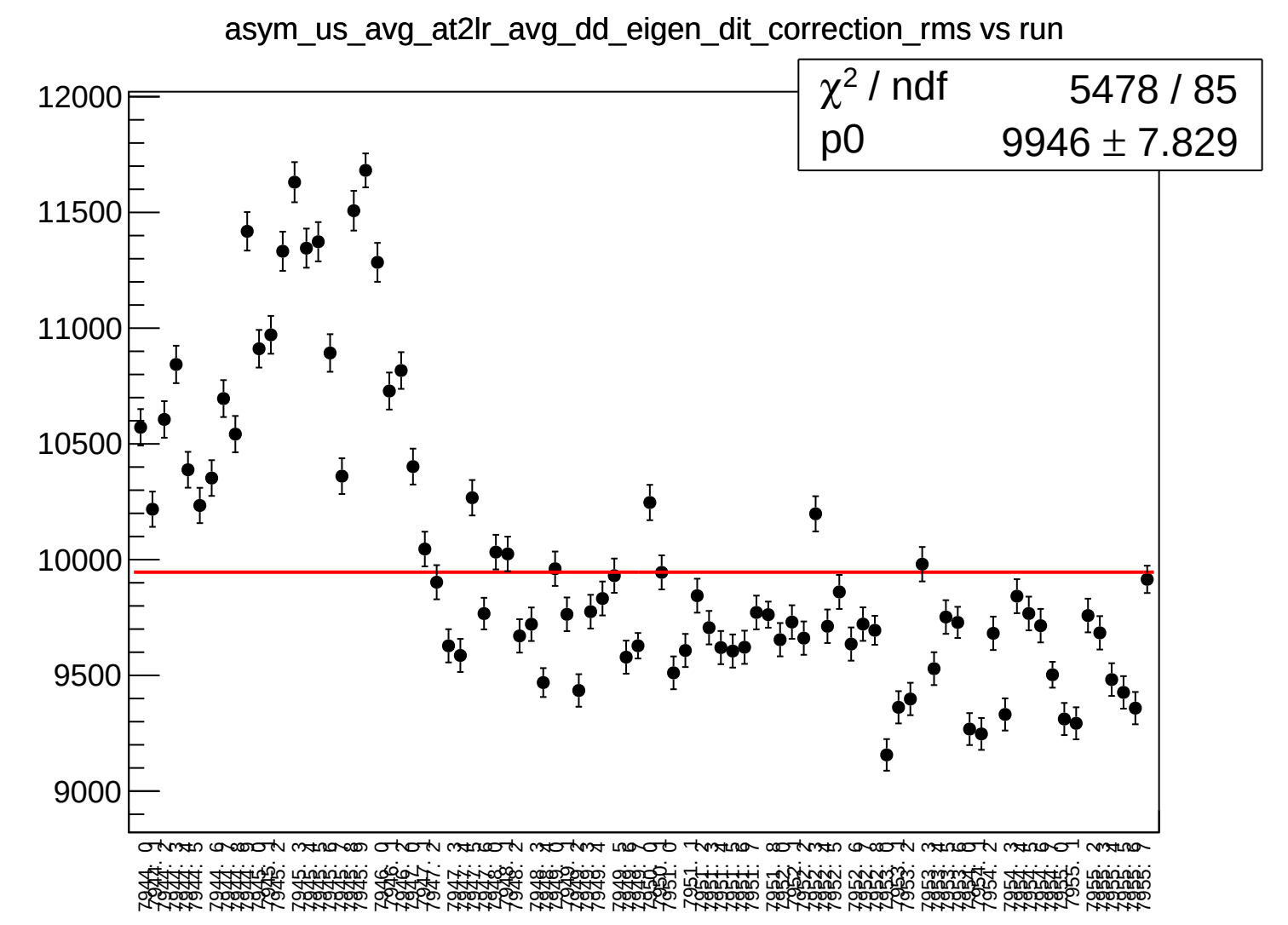

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5478 / 85
p0 9946 ± 7.829
12000
11500
11000
10500
10000
9500
9000

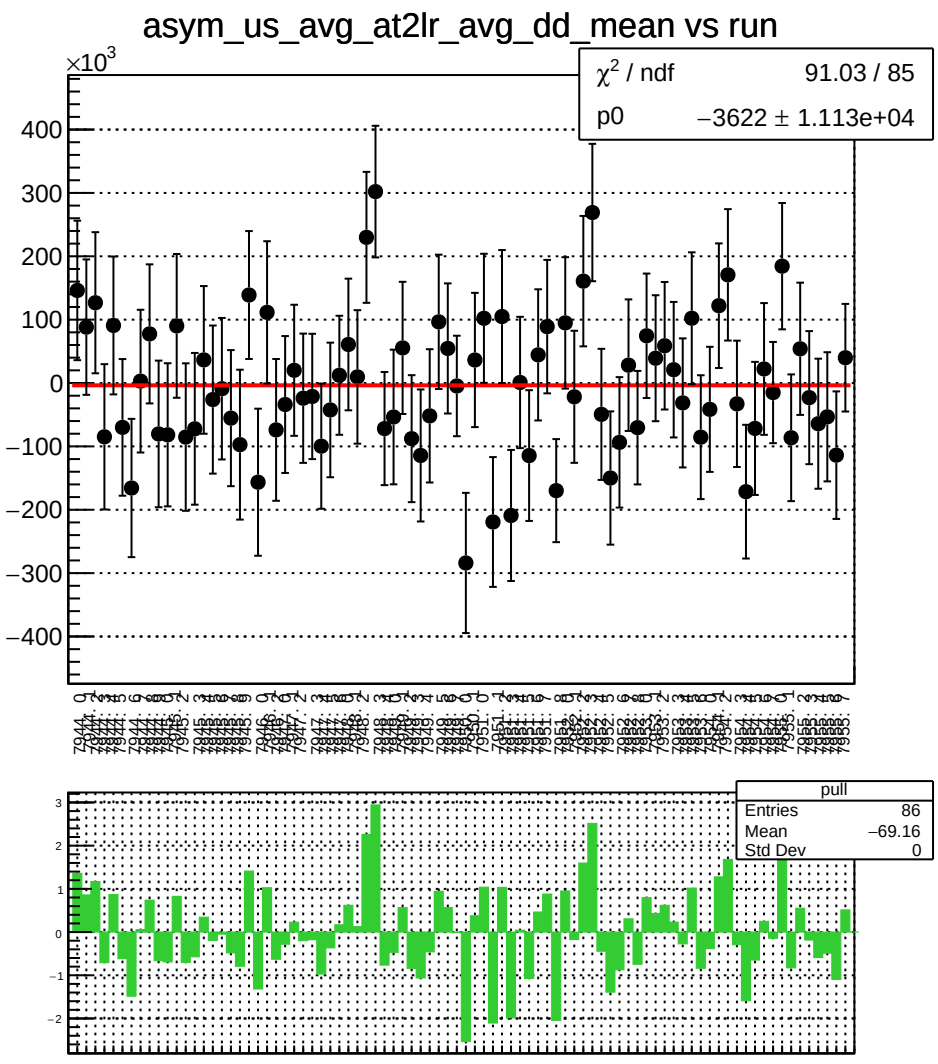

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 113.1 / 85
p0 1224 ± 1924
pull
Entries 86
Mean −1918
Std Dev 0

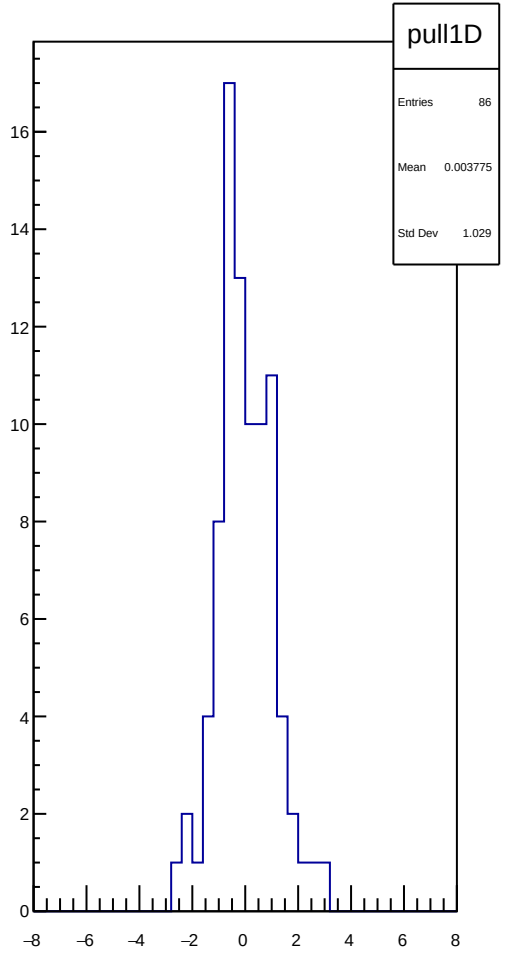

pull1D
Entries 86
Mean −0.002622
Std Dev 1.147

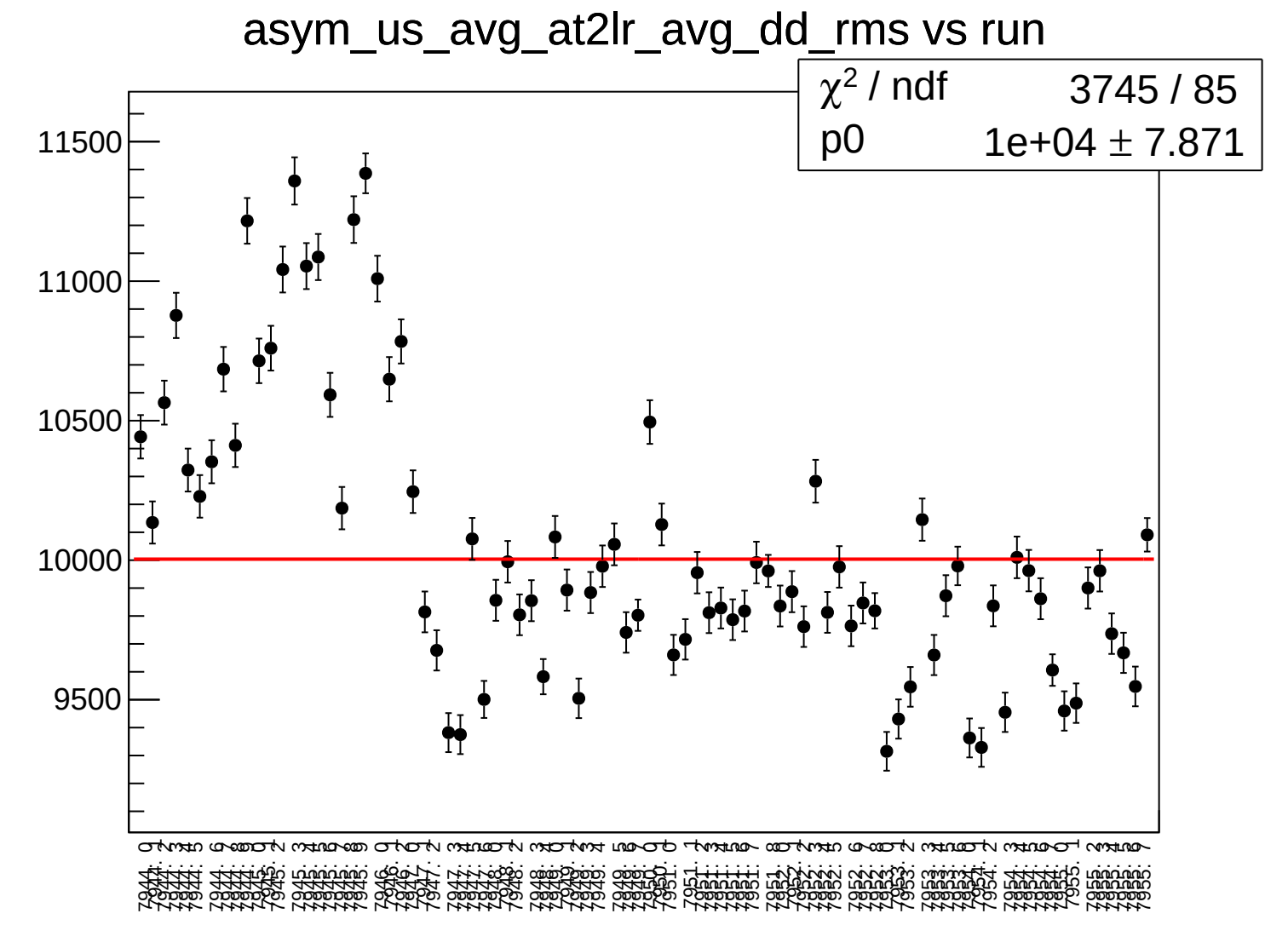

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1005 / 85
p0 1731 ± 1.36
1900
1850
1800
1750
1700
1650

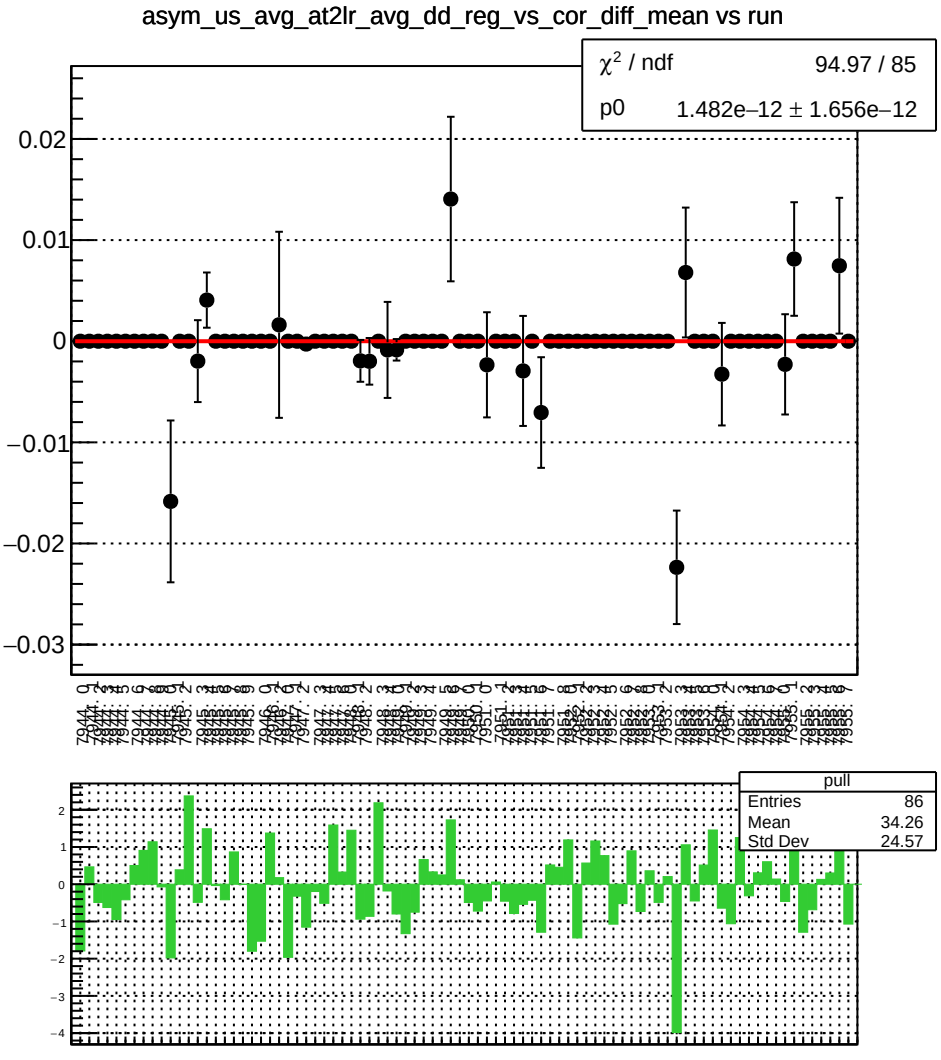

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.8 / 85
p0 4999 ± 1.107e+04
pull
Entries 86
Mean −214
Std Dev 0
pull1D
Entries 86
Mean −0.005272
Std Dev 1.033

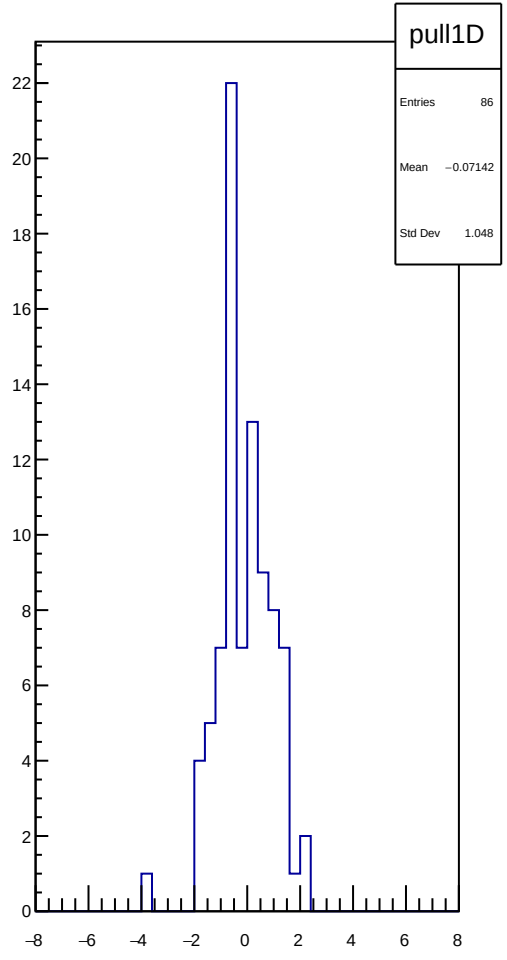

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5478 / 85
p0 9946 ± 7.829
12000
11500
11000
10500
10000
9500
9000

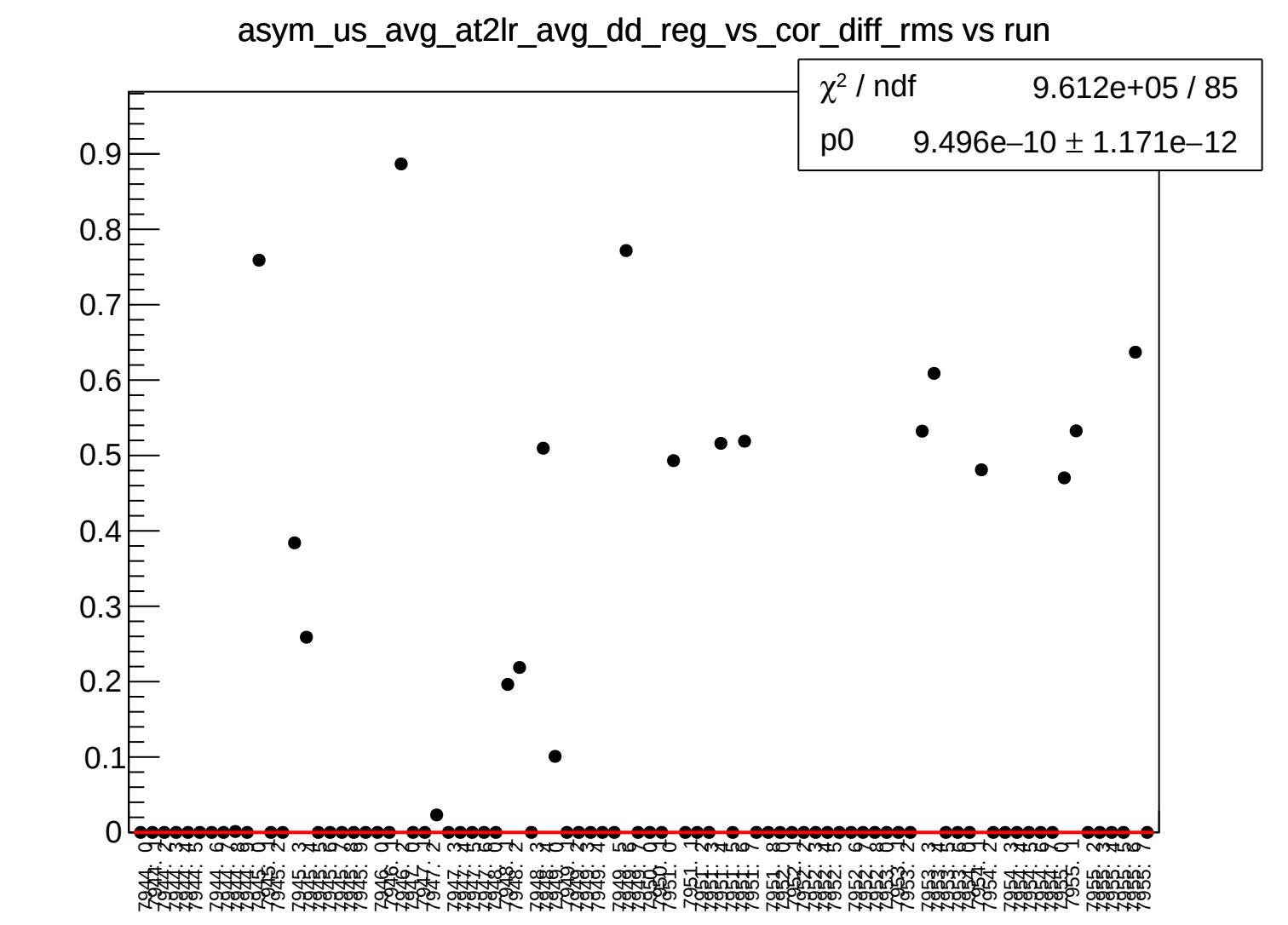

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 91.03 / 85
p0 −3622 ± 1.113e+04
400
300
200
100
0
−100
−200
−300
−400
pull
Entries 86
Mean −69.16
Std Dev 0
3
2
1
0
−1
−2

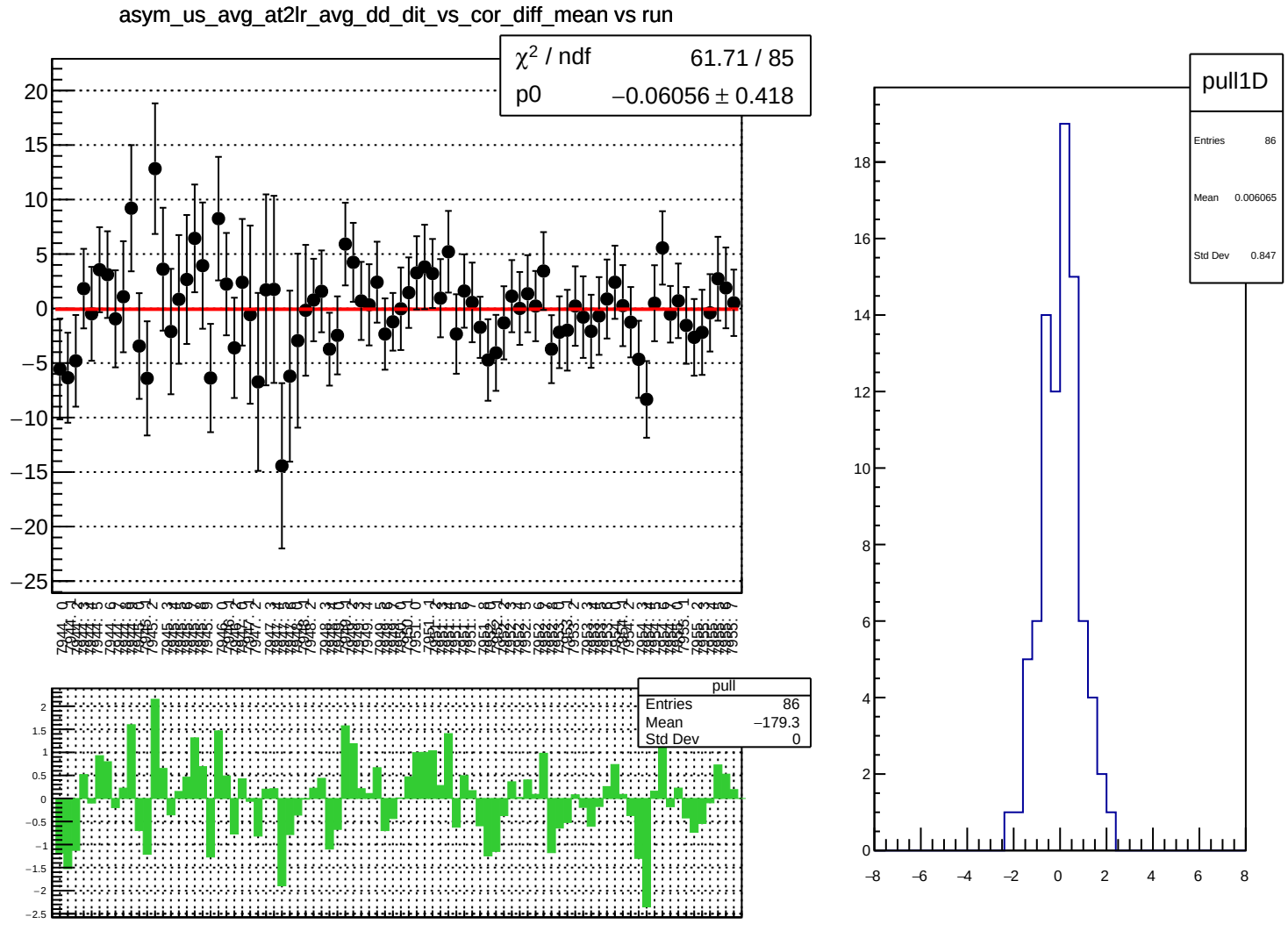

pull1D
Entries 86
Mean 0.003775
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

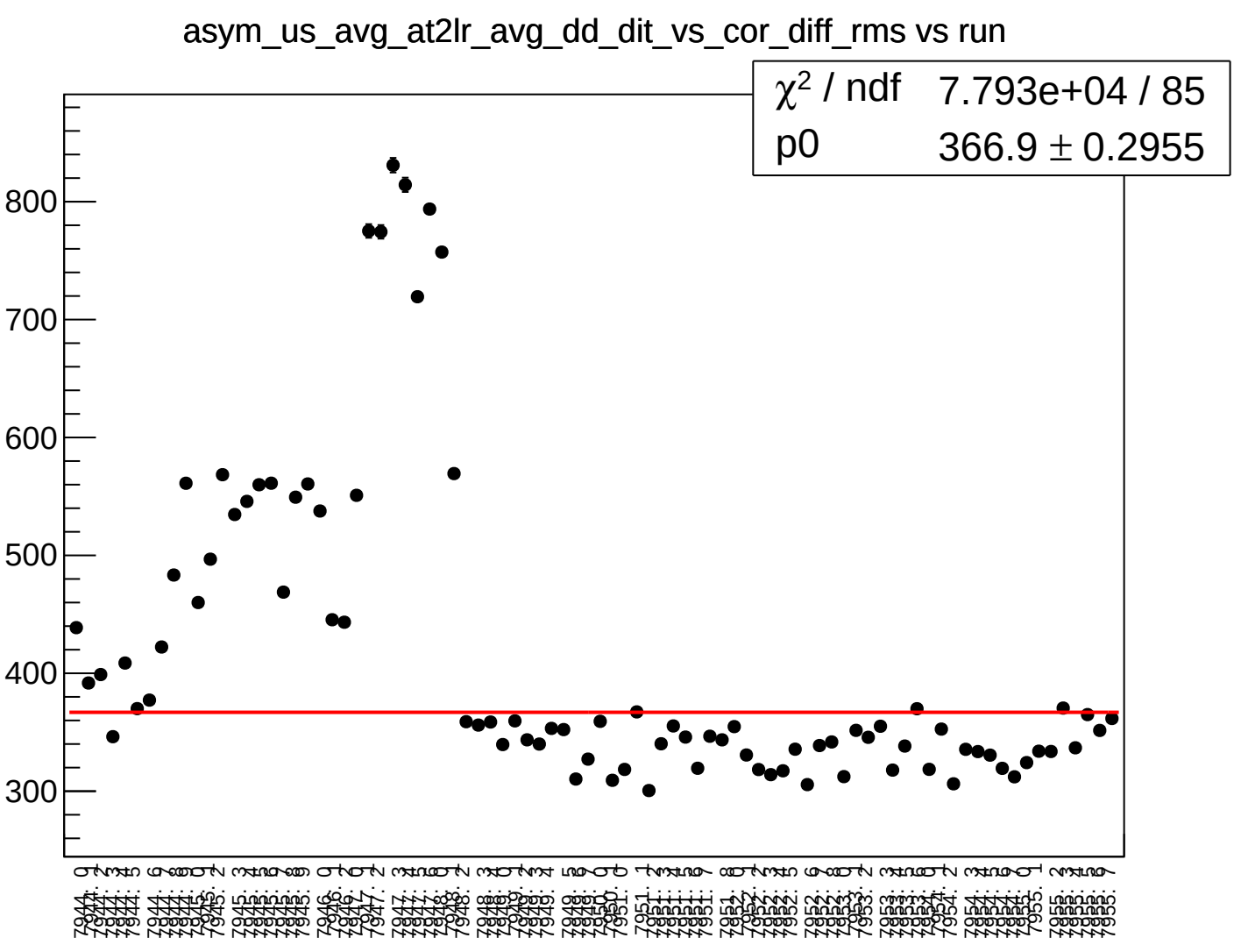

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3745 / 85
p0 1e+04 ± 7.871
11500
11000
10500
10000
9500

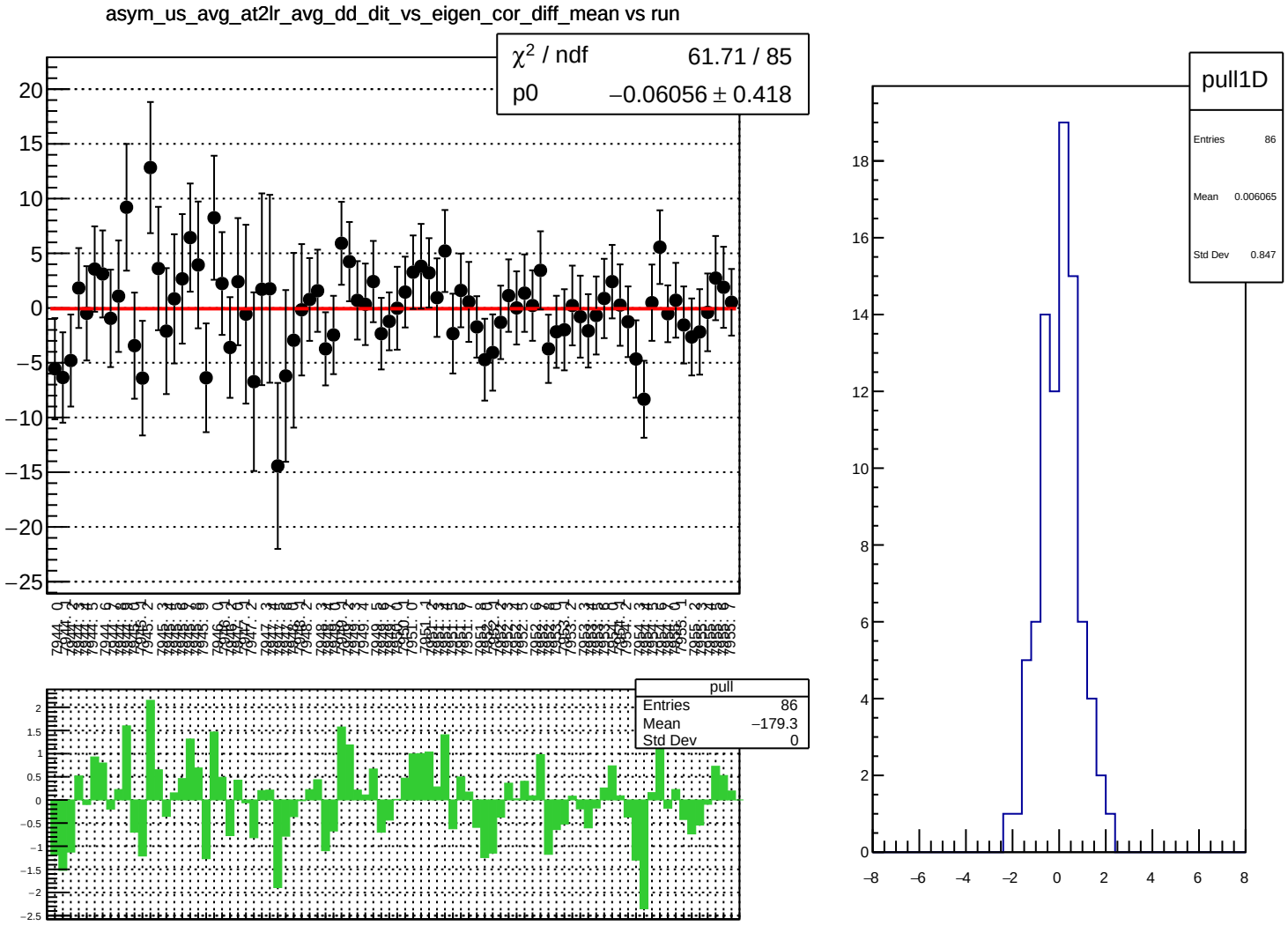

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.97 / 85
p0 1.482e−12 ± 1.656e−12
pull
Entries 86
Mean 34.26
Std Dev 24.57

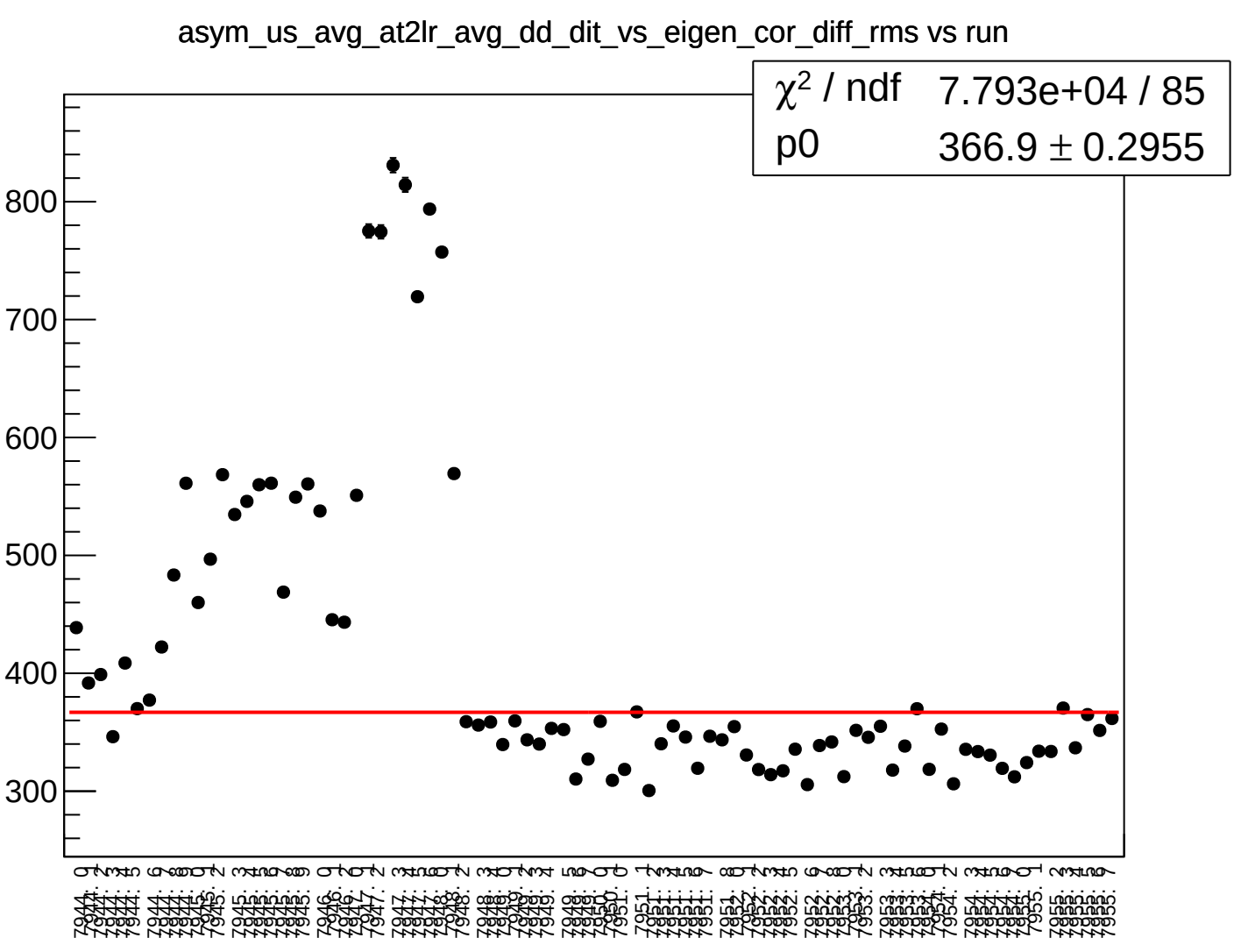

pull1D
Entries 86
Mean −0.07142
Std Dev 1.048

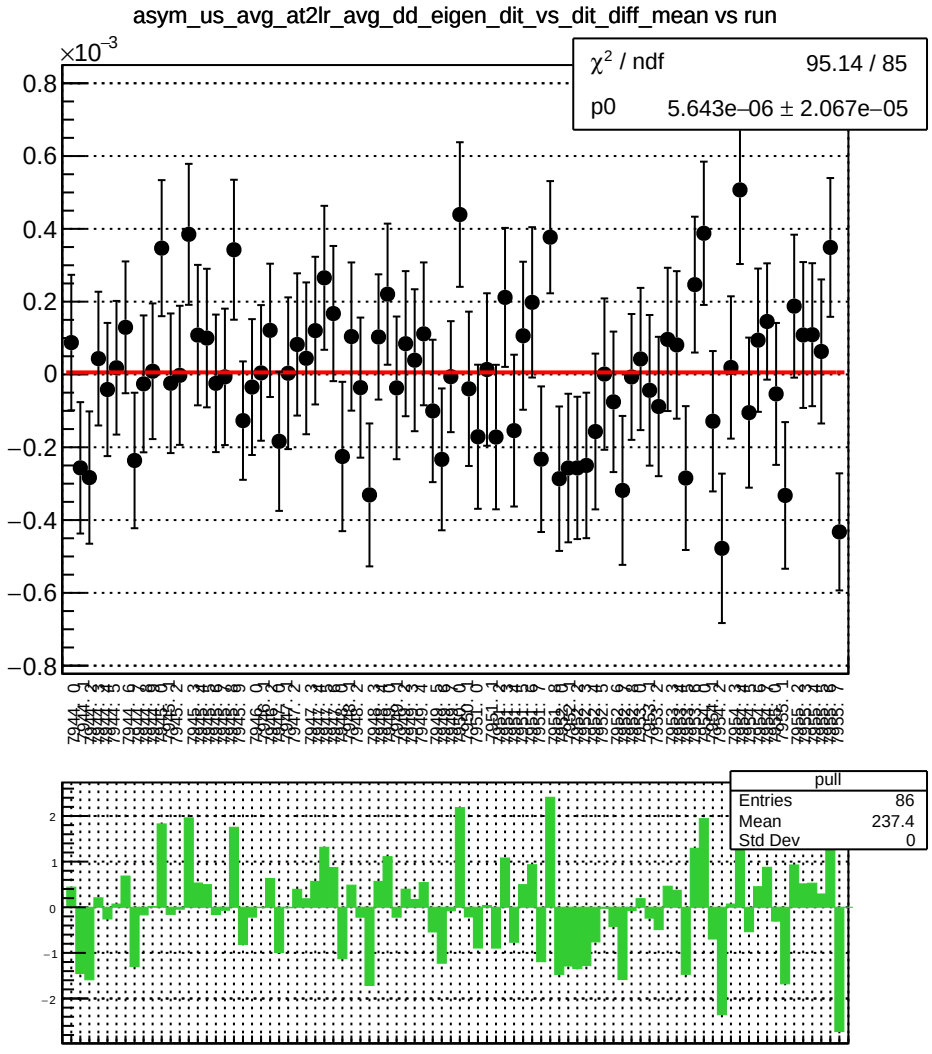

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.612e+05 / 85
p0 9.496e−10 ± 1.171e−12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9

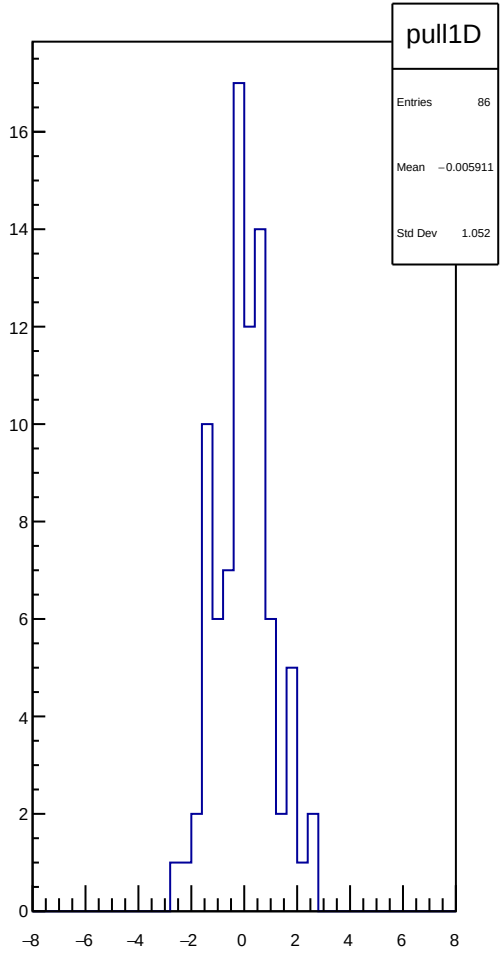

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.71 / 85
p0 −0.06056 ± 0.418
pull
Entries 86
Mean −179.3
Std Dev 0
pull1D
Entries 86
Mean 0.006065
Std Dev 0.847

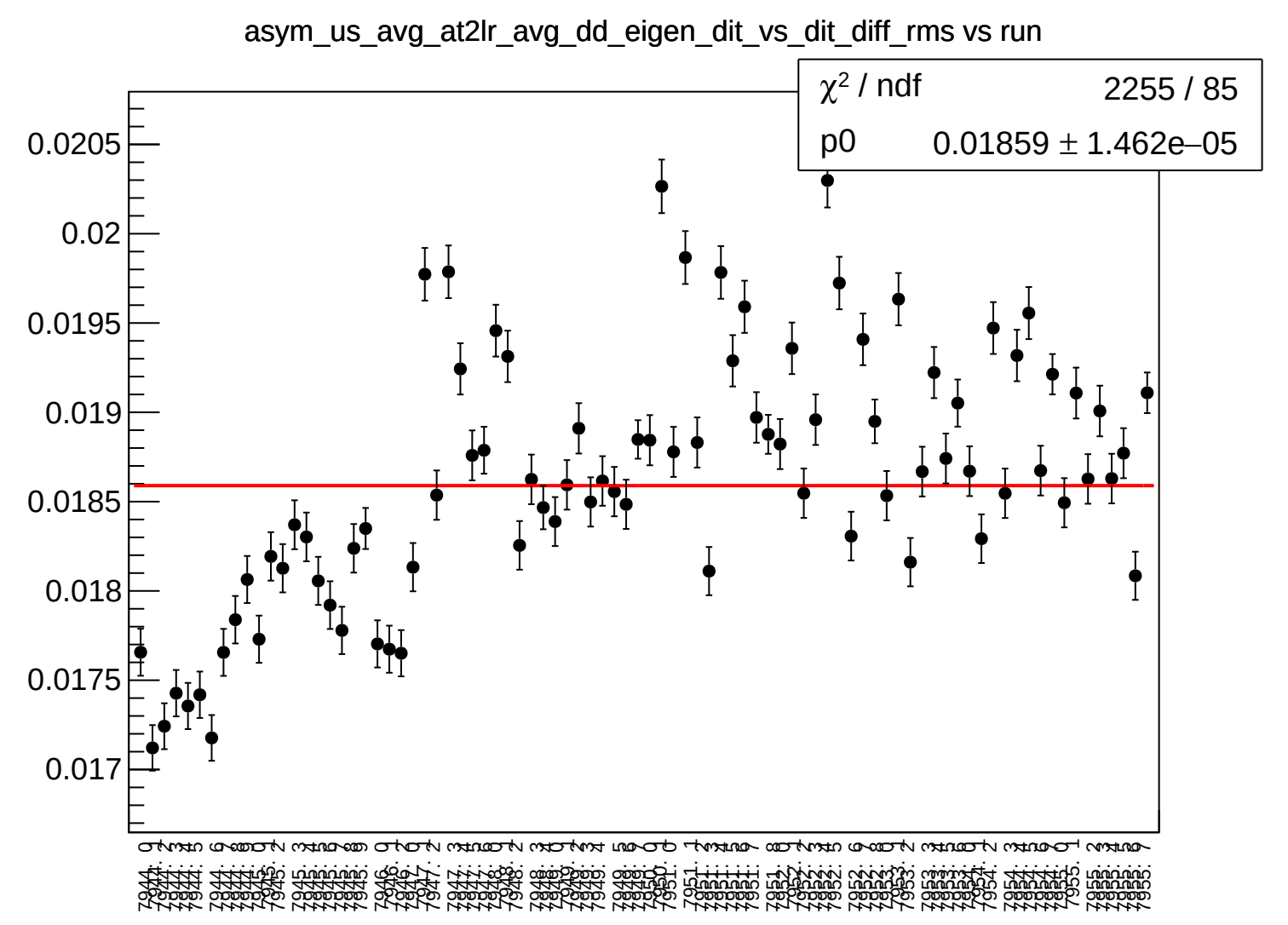

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.793e+04 / 85
p0 366.9 ± 0.2955
800
700
600
500
400
300

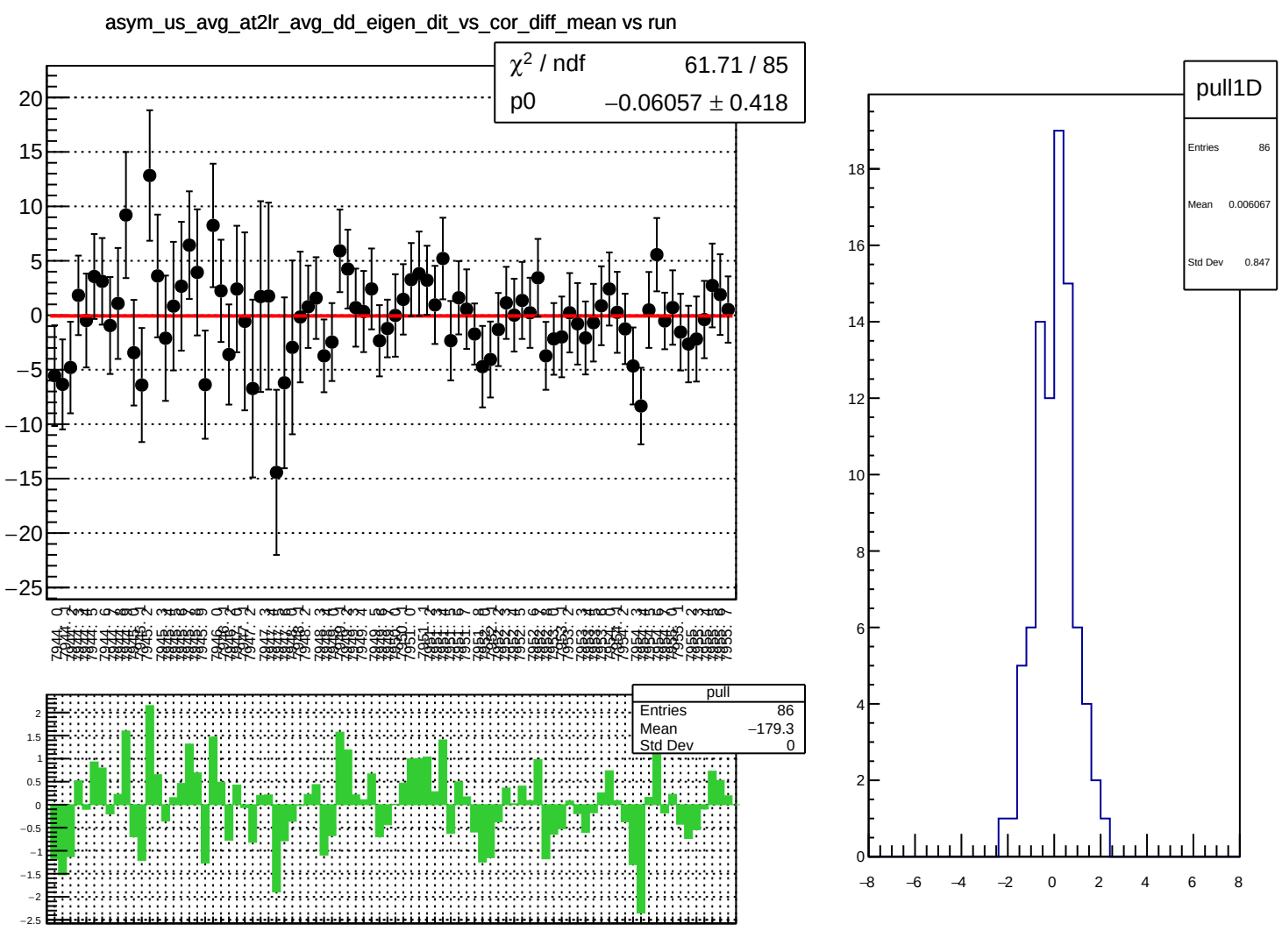

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.71 / 85
p0 −0.06056 ± 0.418
pull
Entries 86
Mean −179.3
Std Dev 0
pull1D
Entries 86
Mean 0.006065
Std Dev 0.847

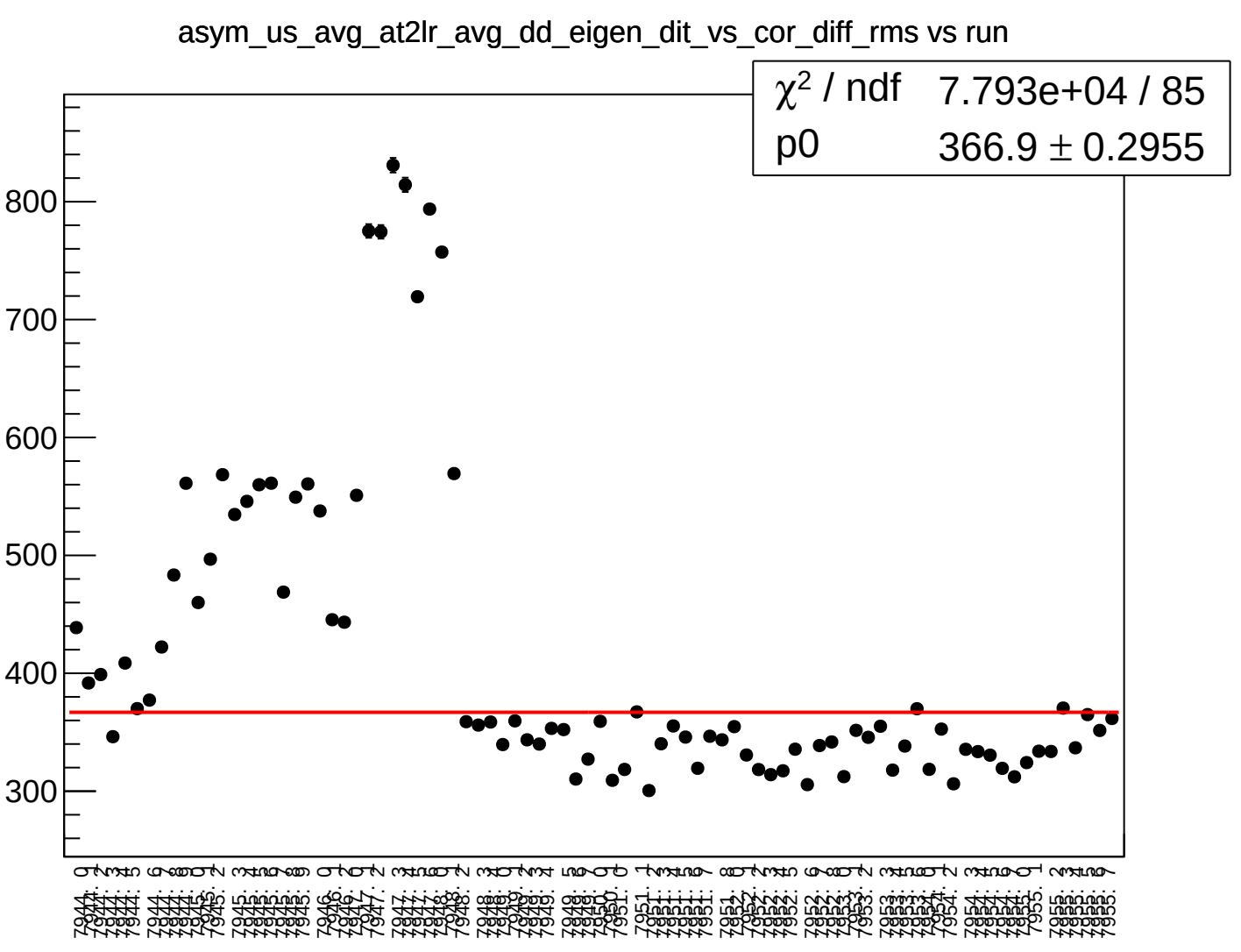

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.793e+04 / 85
p0 366.9 ± 0.2955
800
700
600
500
400
300

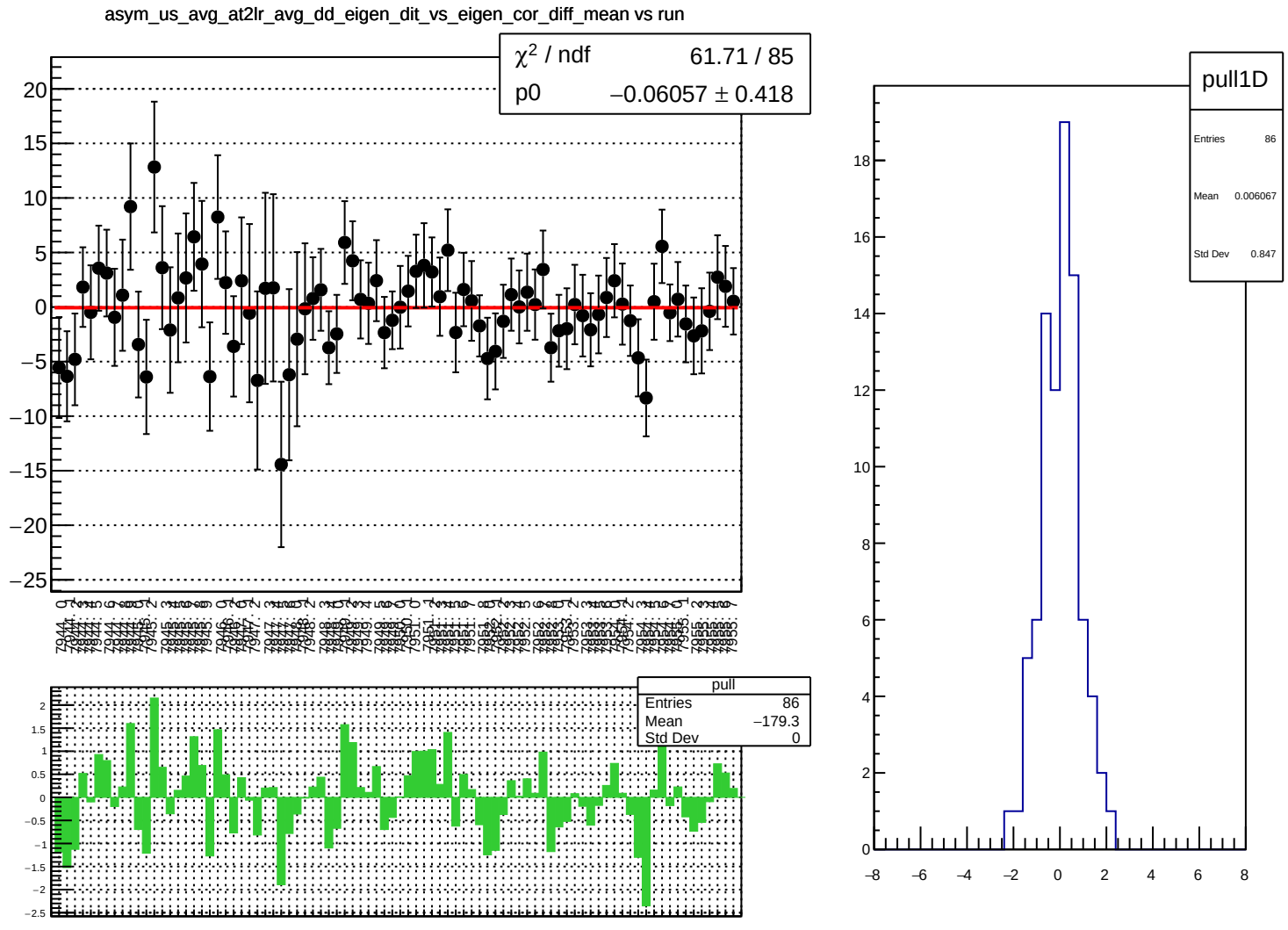

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.14 / 85
p0 5.643e−06 ± 2.067e−05
pull
Entries 86
Mean 237.4
Std Dev 0

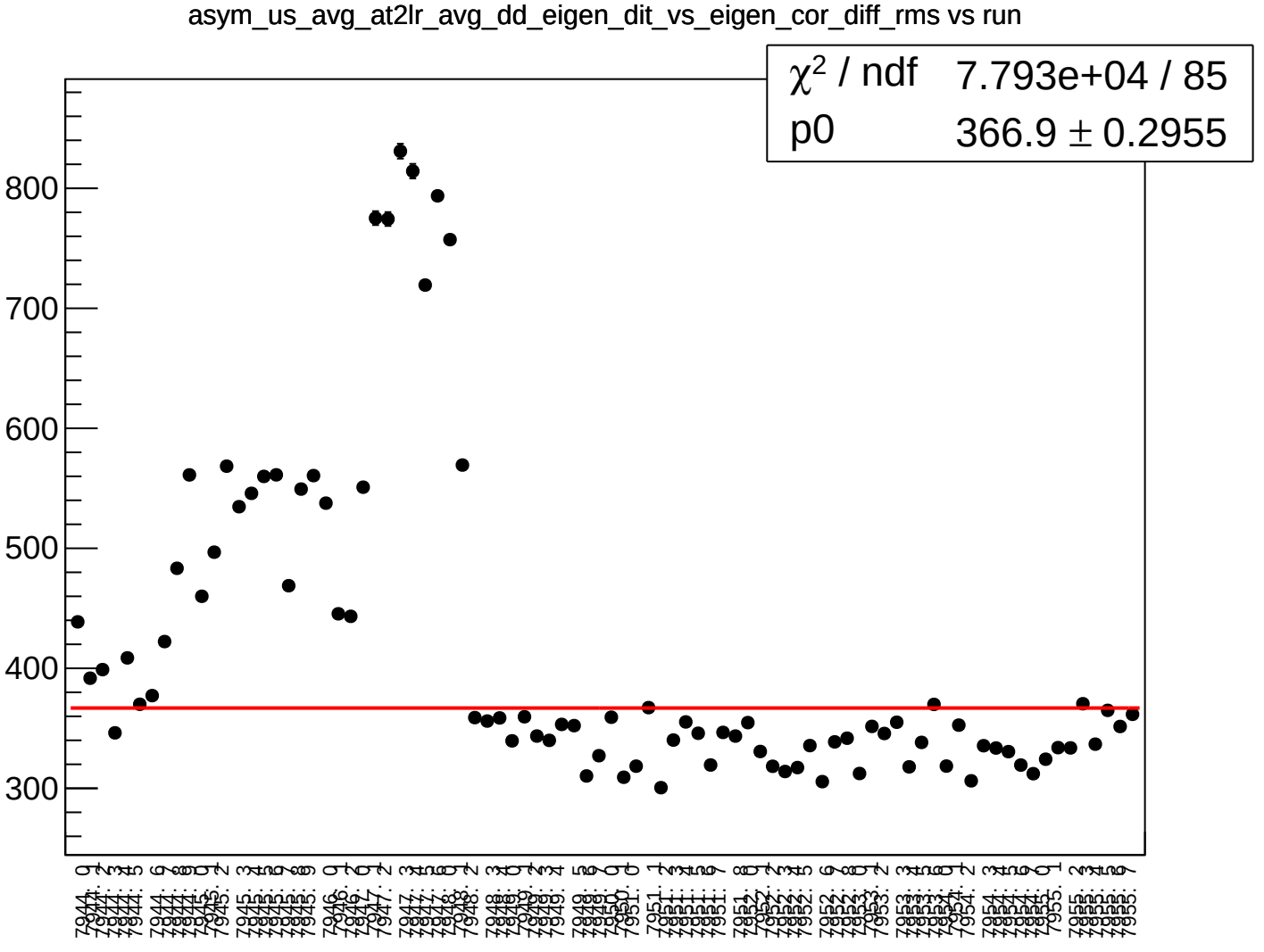

pull1D
Entries 86
Mean −0.005911
Std Dev 1.052

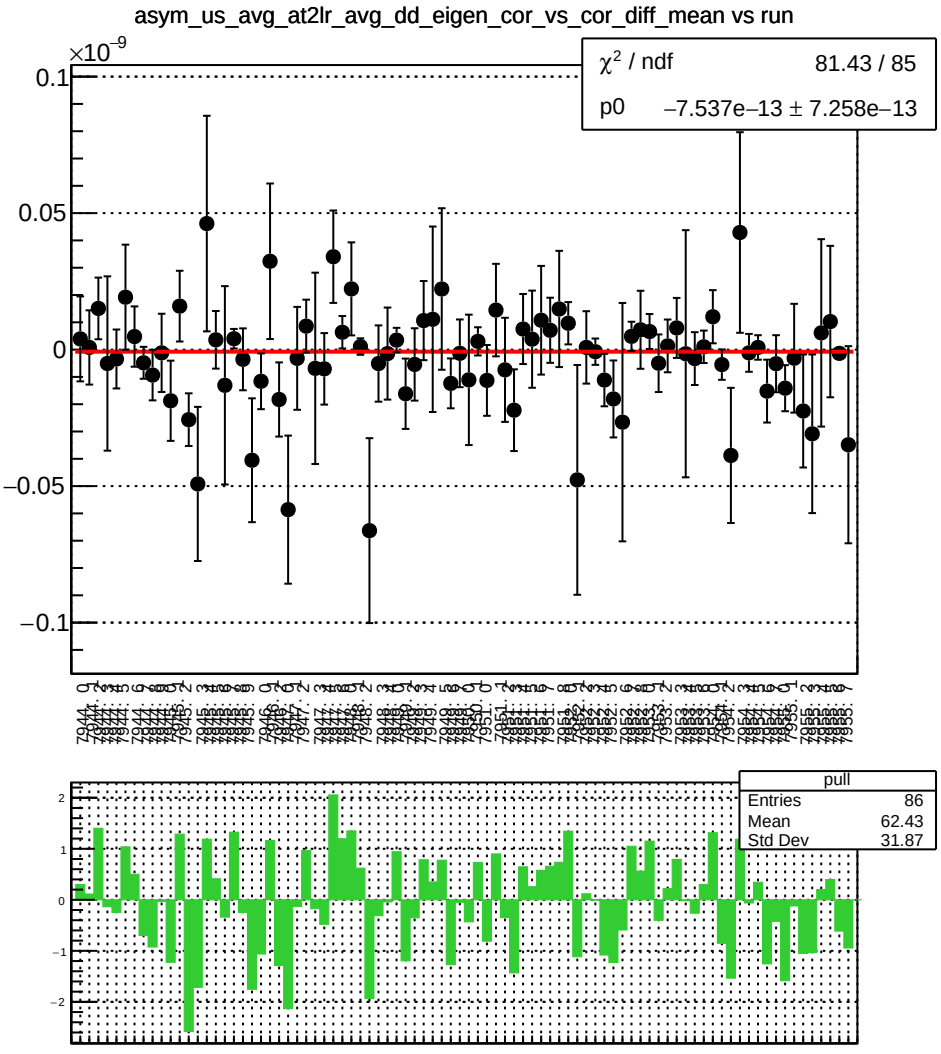

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2255 / 85
p0 0.01859 ± 1.462e−05
0.0205
0.02
0.0195
0.019
0.0185
0.018
0.0175
0.017

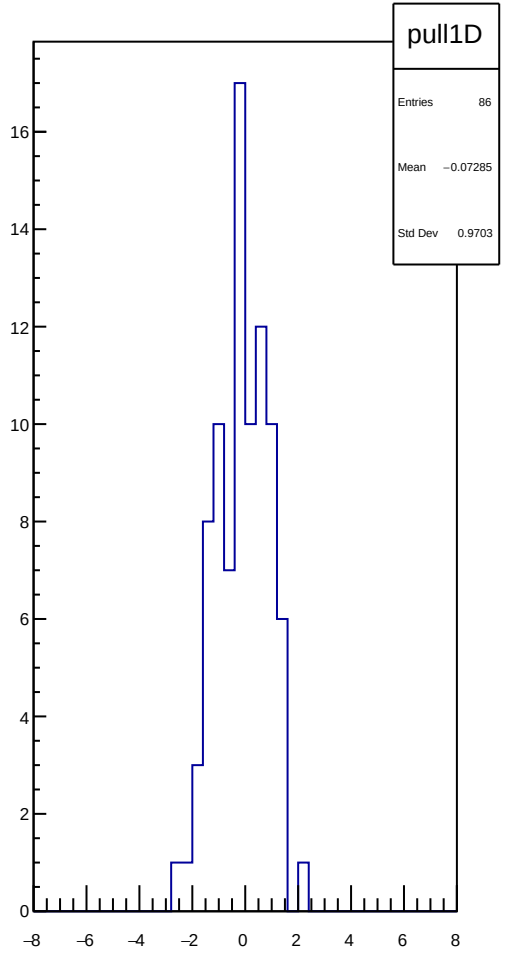

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.71 / 85
p0 −0.06057 ± 0.418
pull
Entries 86
Mean −179.3
Std Dev 0
pull1D
Entries 86
Mean 0.006067
Std Dev 0.847

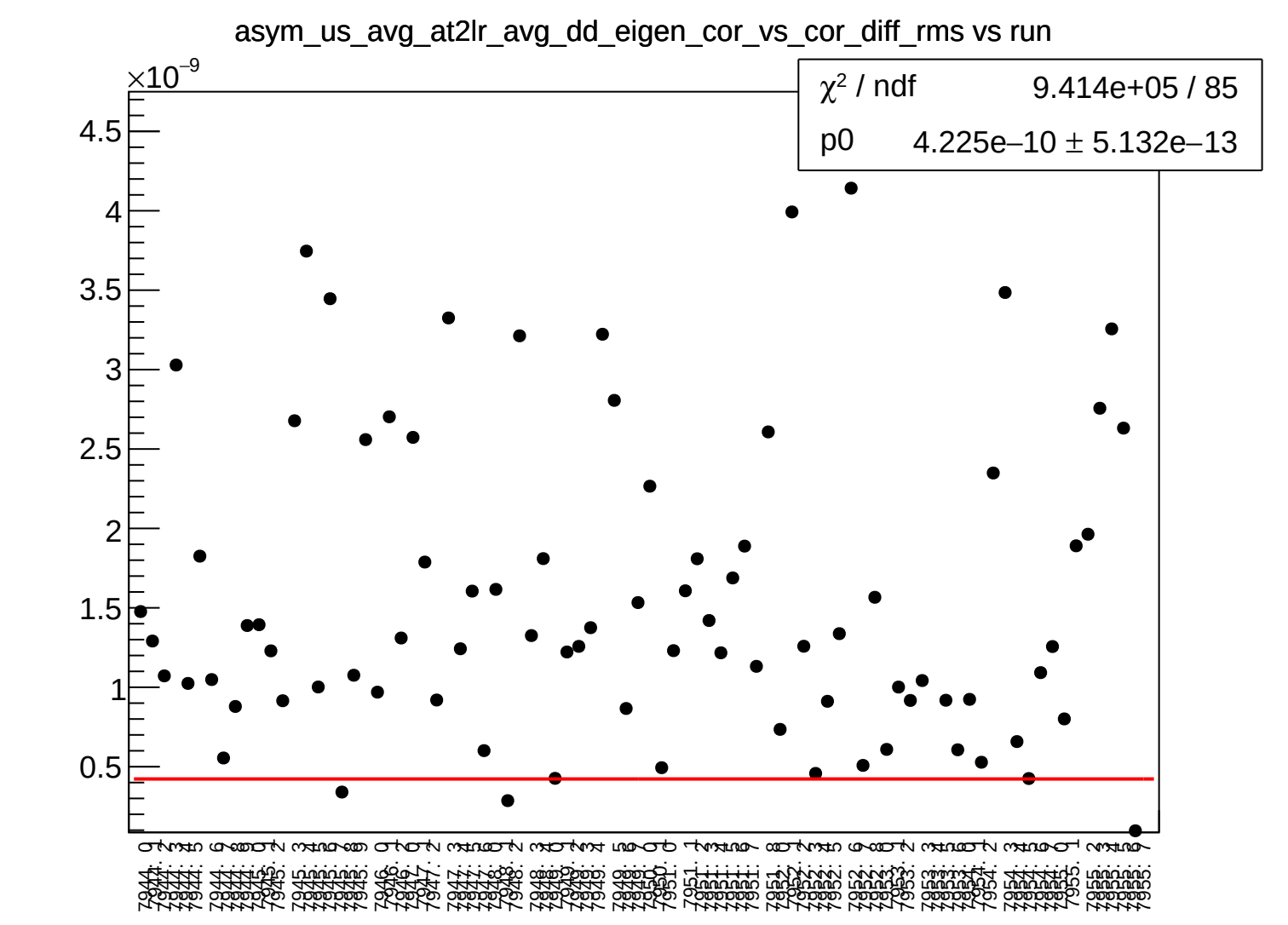

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.793e+04 / 85
p0 366.9 ± 0.2955
800
700
600
500
400
300

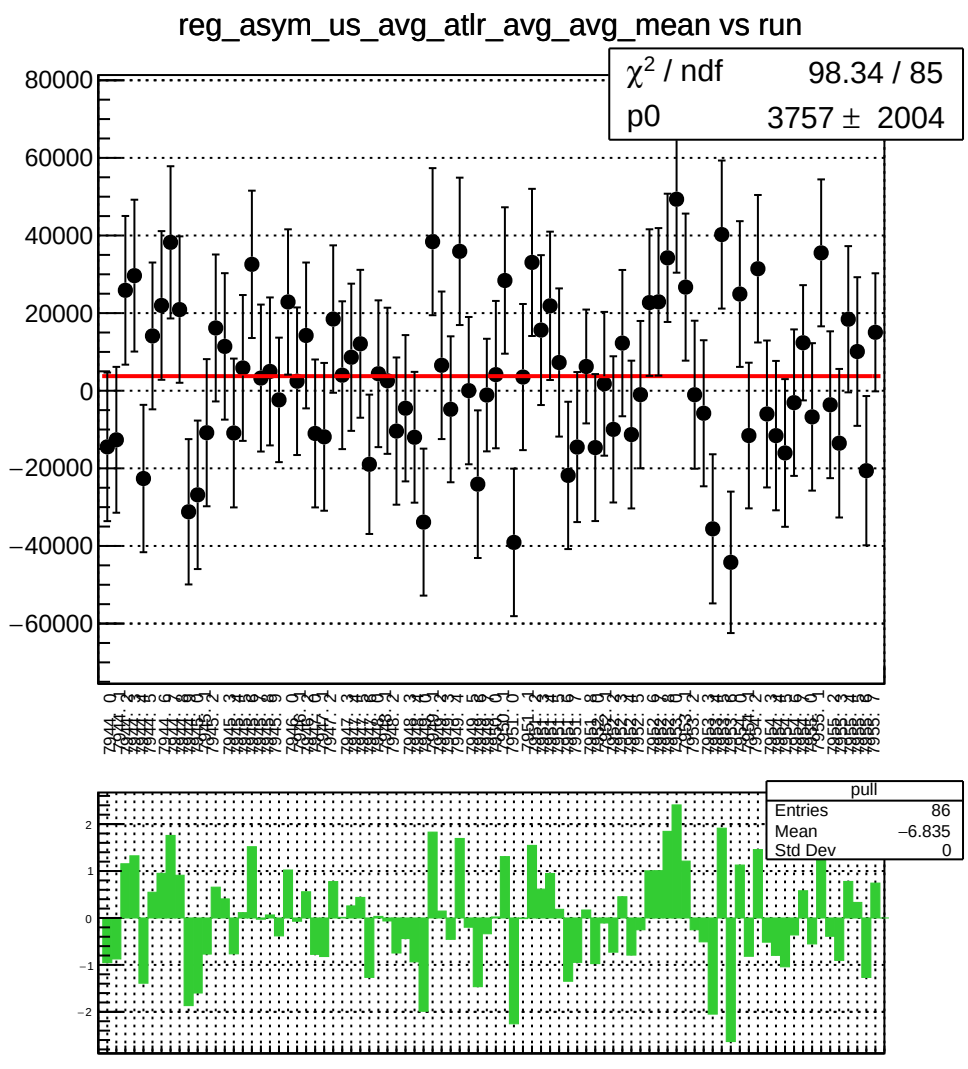

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.71 / 85
p0 −0.06057 ± 0.418
pull
Entries 86
Mean −179.3
Std Dev 0
pull1D
Entries 86
Mean 0.006067
Std Dev 0.847

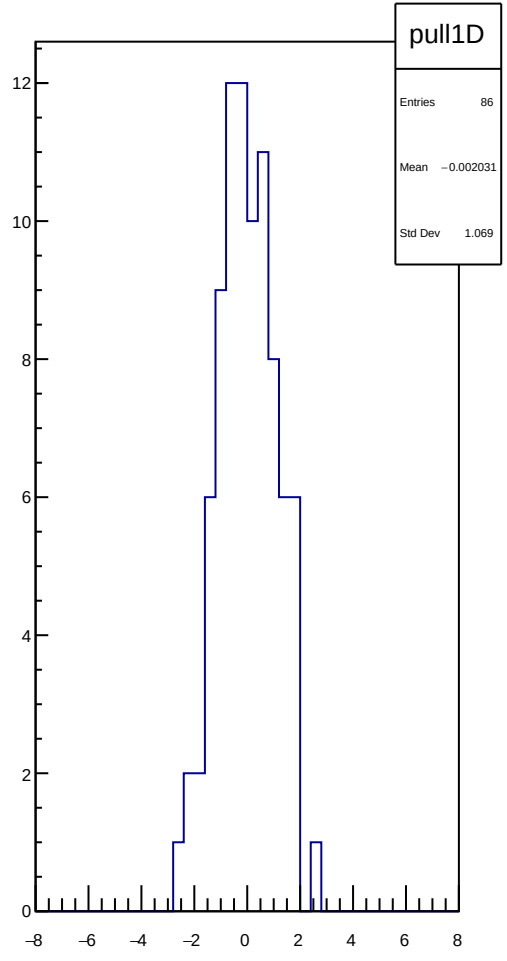

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.793e+04 / 85
p0 366.9 ± 0.2955
800
700
600
500
400
300

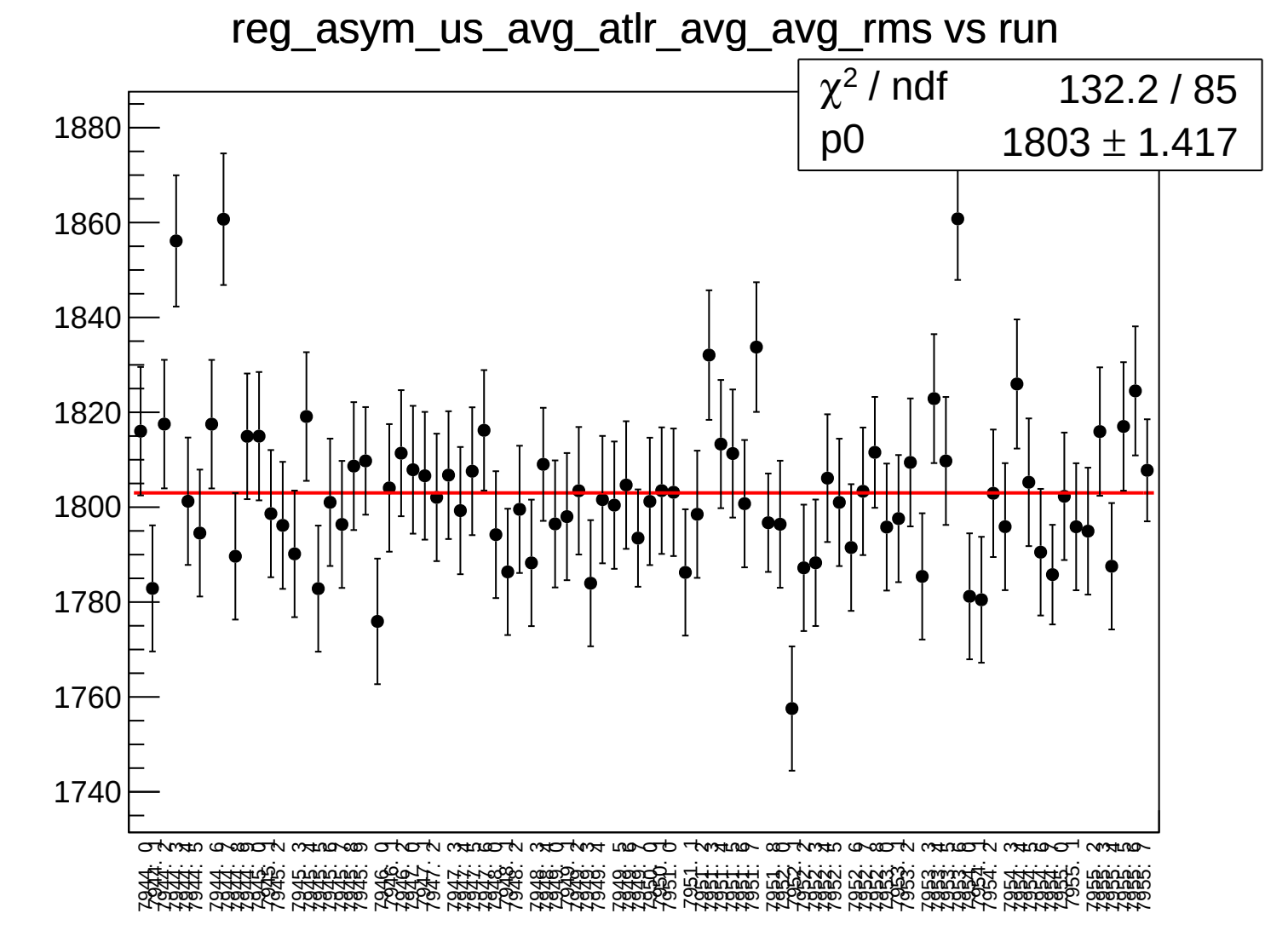

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 81.43 / 85
p0 −7.537e−13 ± 7.258e−13
pull
Entries 86
Mean 62.43
Std Dev 31.87

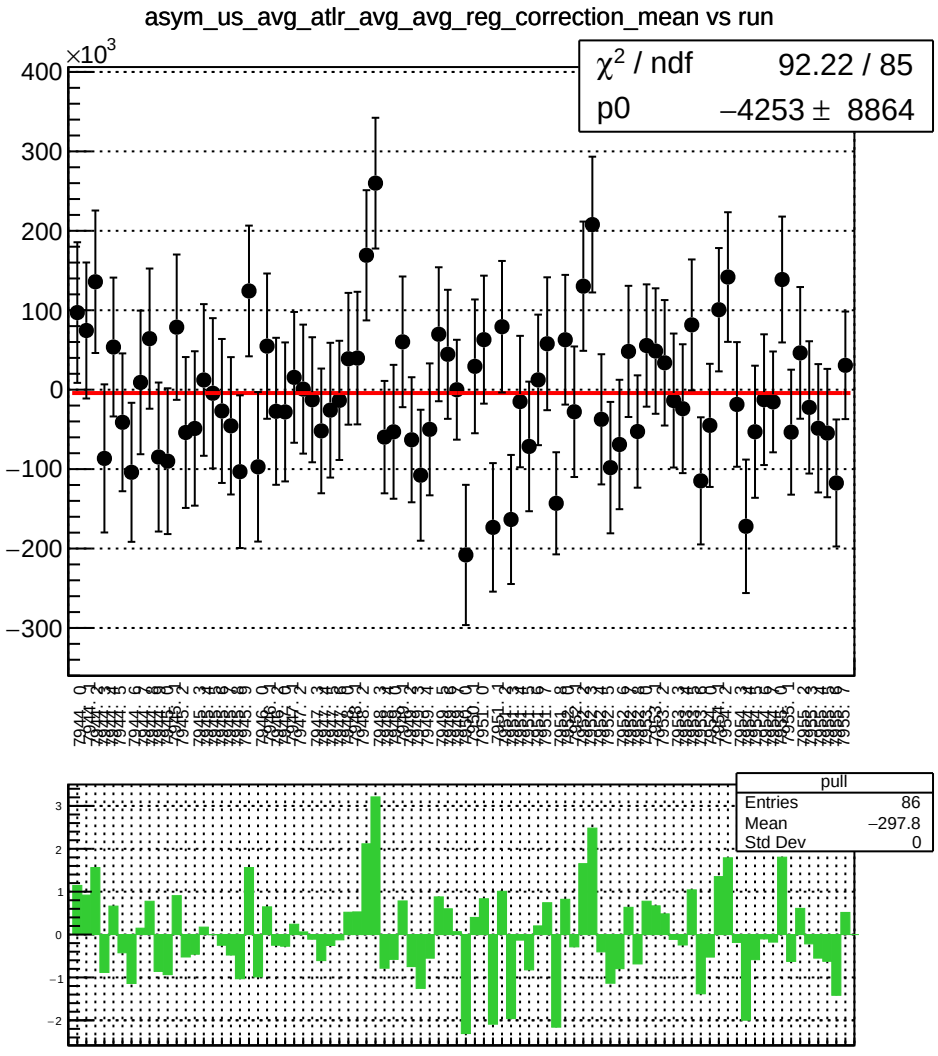

pull1D
Entries 86
Mean −0.07285
Std Dev 0.9703

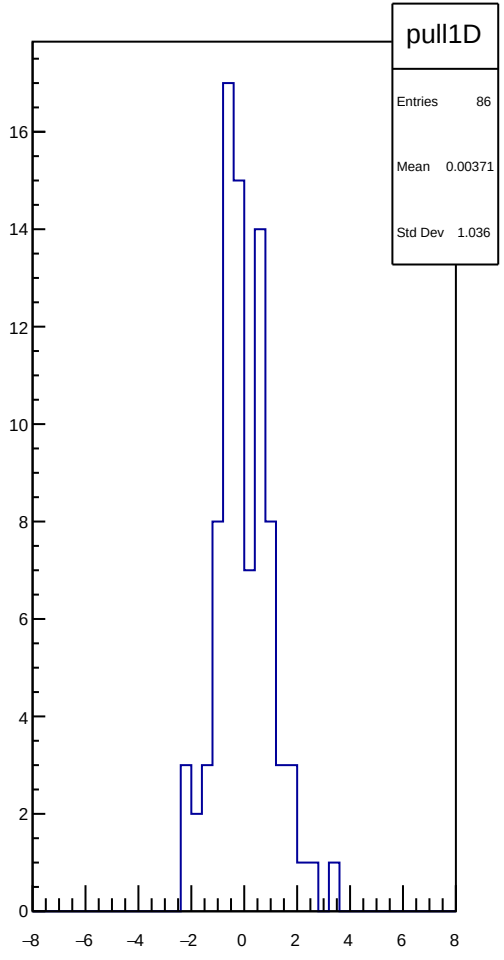

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.414e+05 / 85
p0 4.225e−10 ± 5.132e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

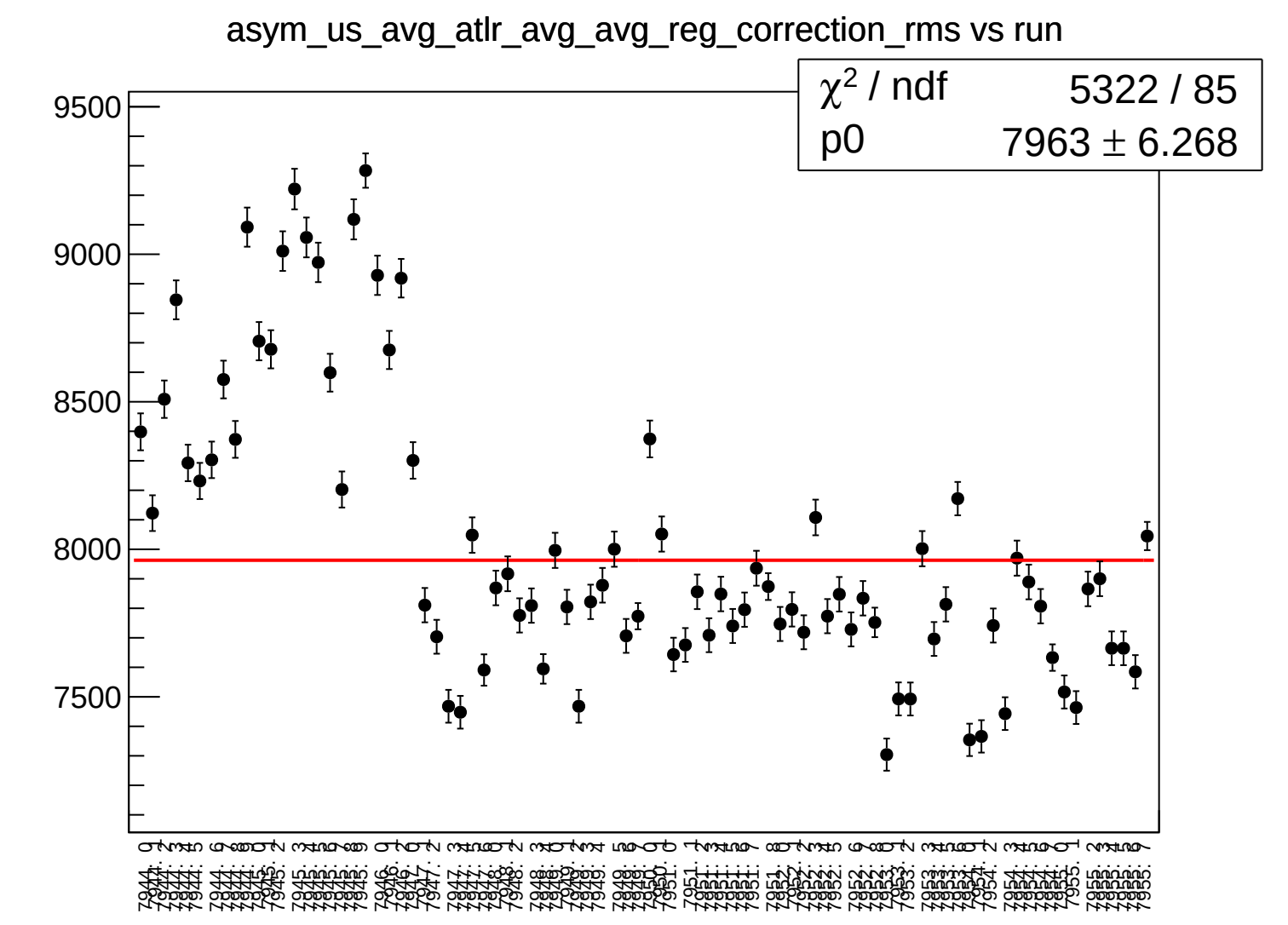

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 98.34 / 85
p0 3757 ± 2004
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −6.835
Std Dev 0
2
1
0
−1
−2

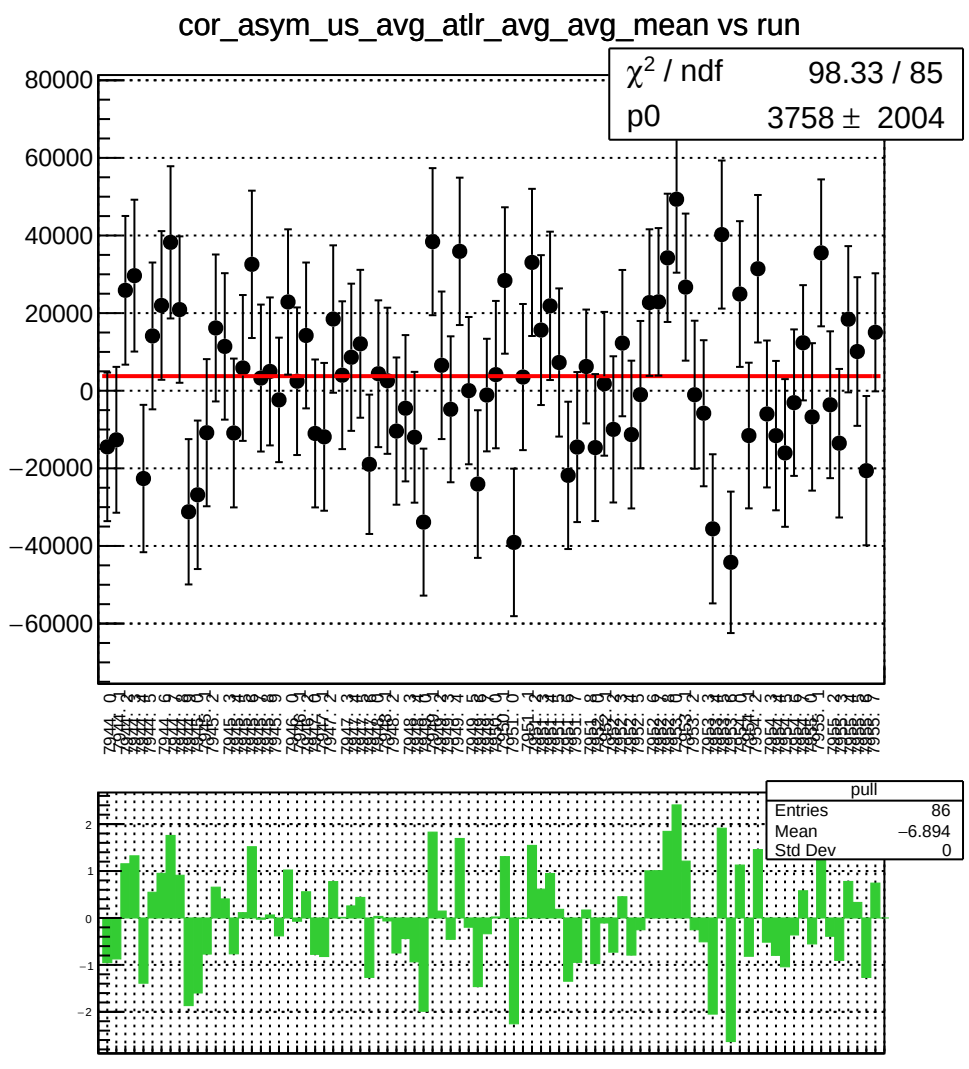

pull1D
Entries 86
Mean −0.002031
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

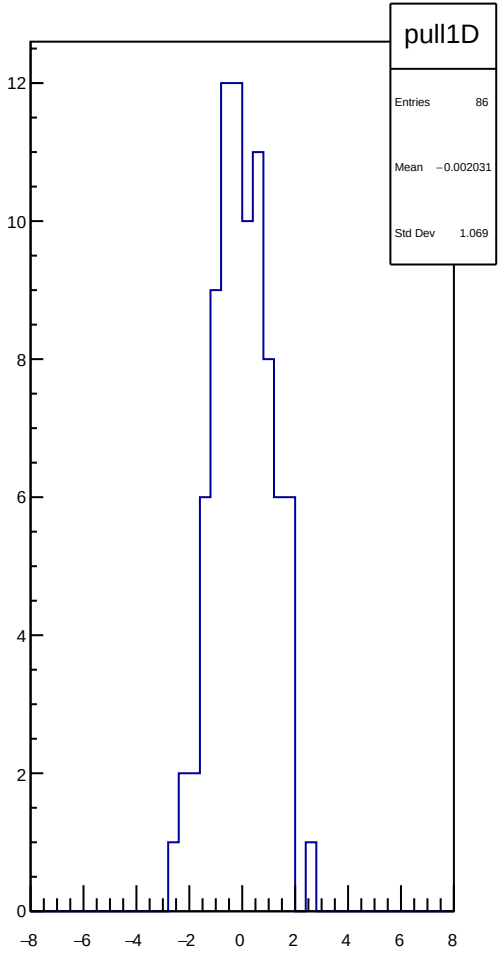

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 132.2 / 85
p0 1803 ± 1.417
1880
1860
1840
1820
1800
1780
1760
1740

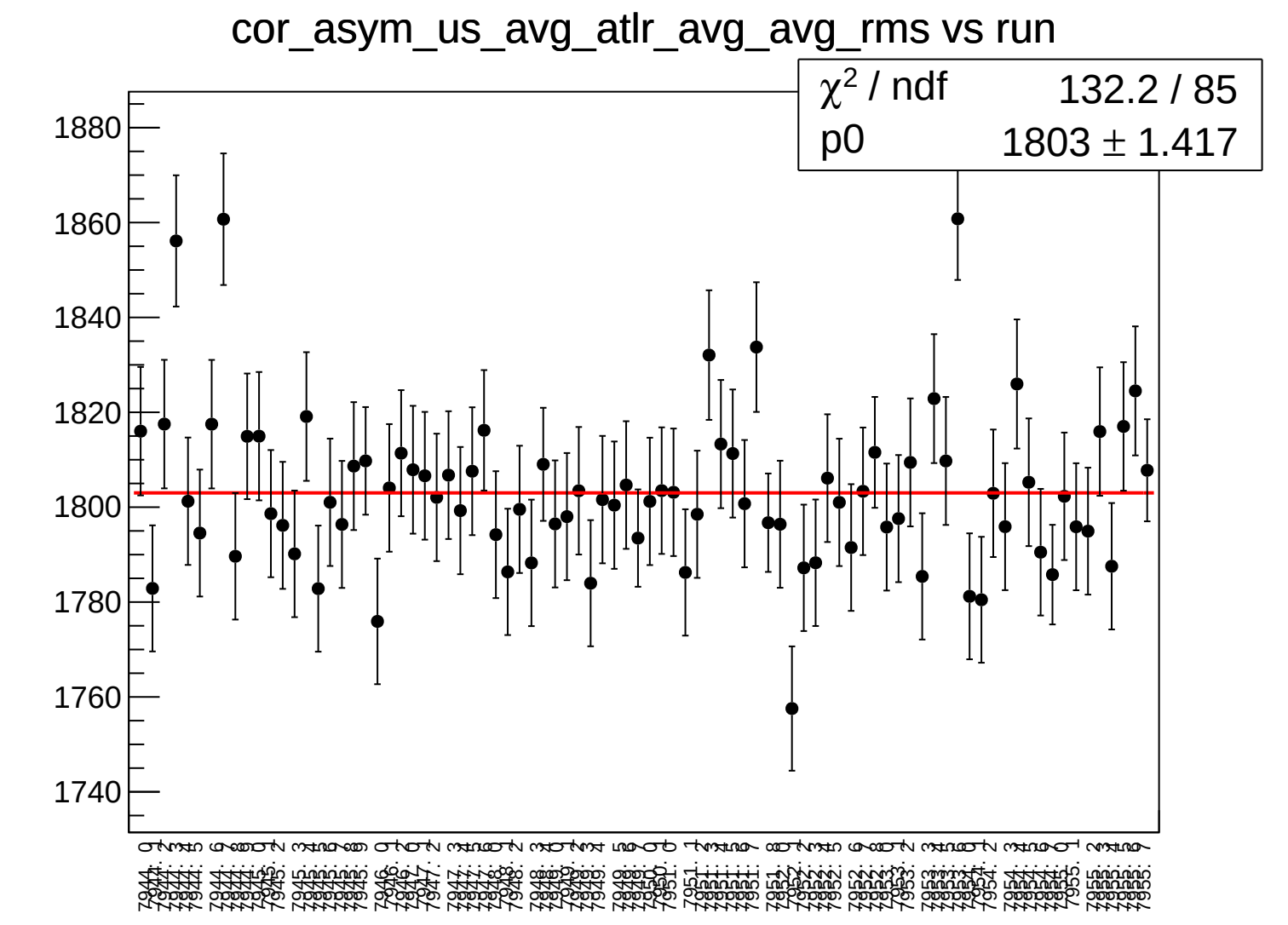

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 92.22 / 85
p0 −4253 ± 8864
pull
Entries 86
Mean −297.8
Std Dev 0
3
2
1
0
−1
−2

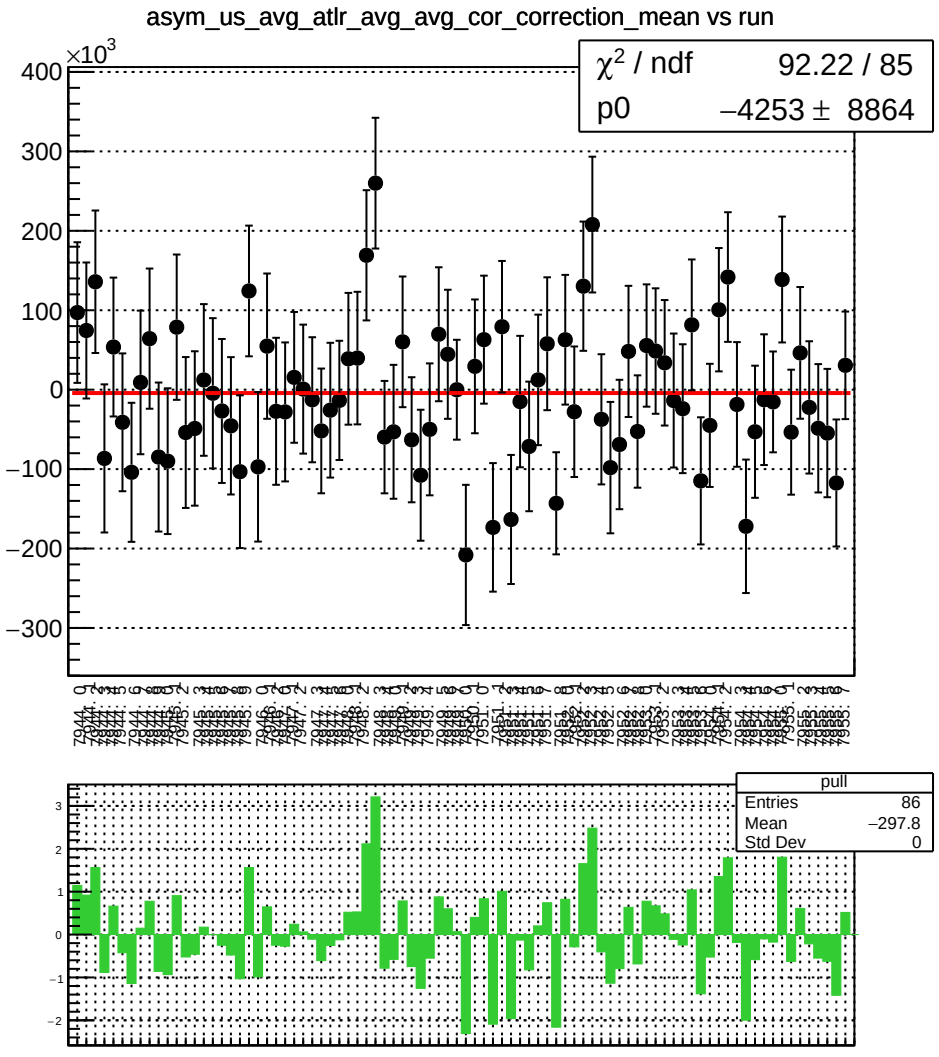

pull1D
Entries 86
Mean 0.00371
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

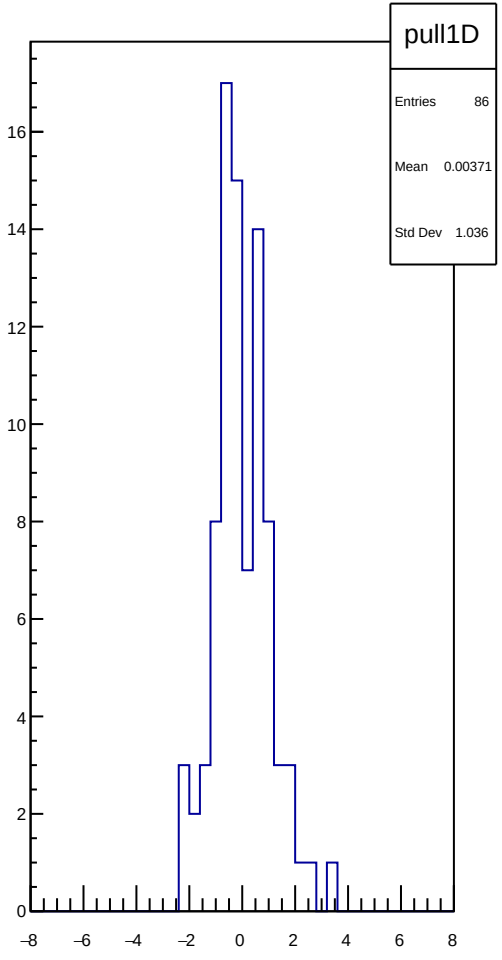

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 5322 / 85
p0 7963 ± 6.268
9500
9000
8500
8000
7500

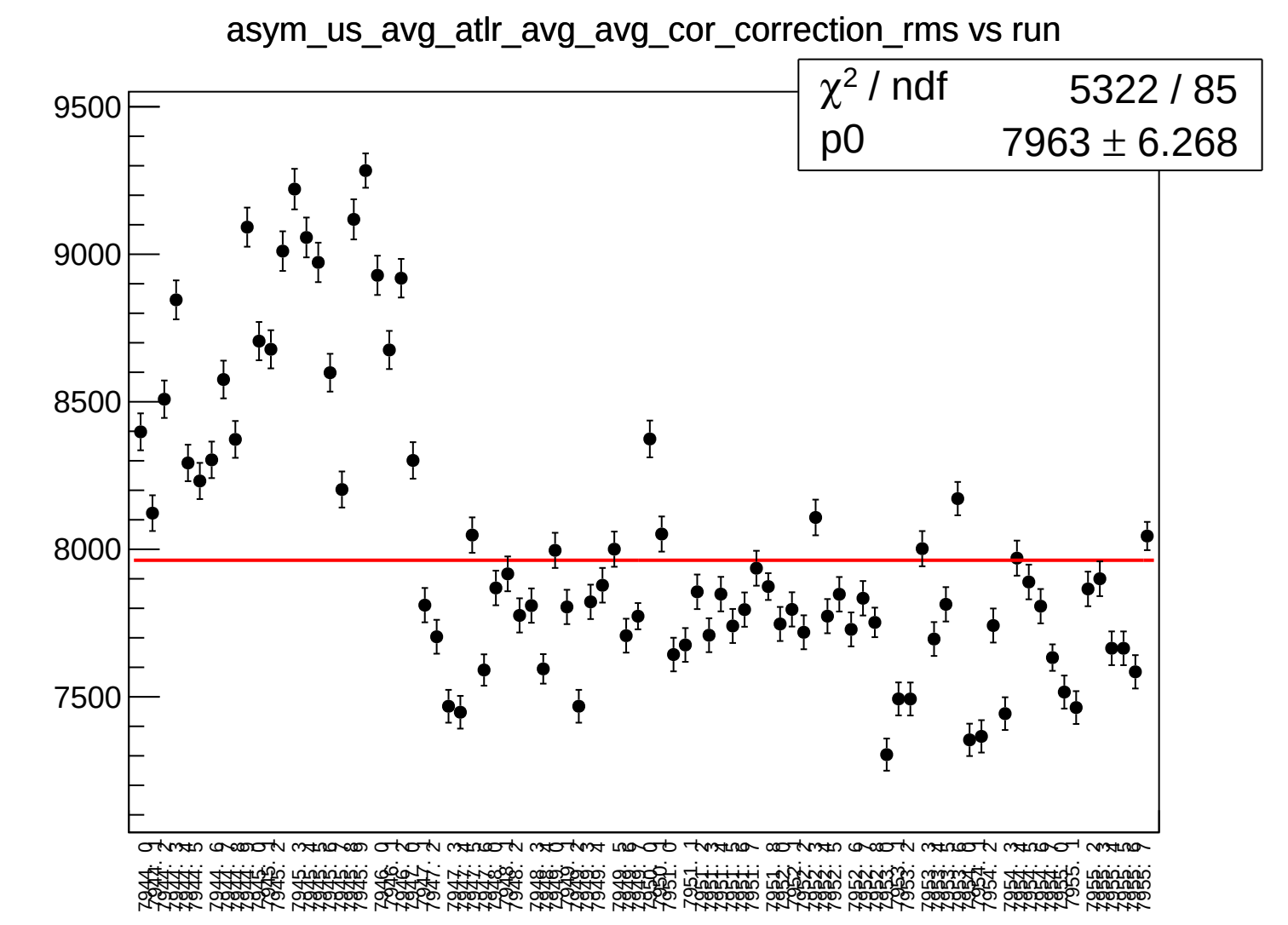

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 98.33 / 85
p0 3758 ± 2004
pull
Entries 86
Mean −6.894
Std Dev 0

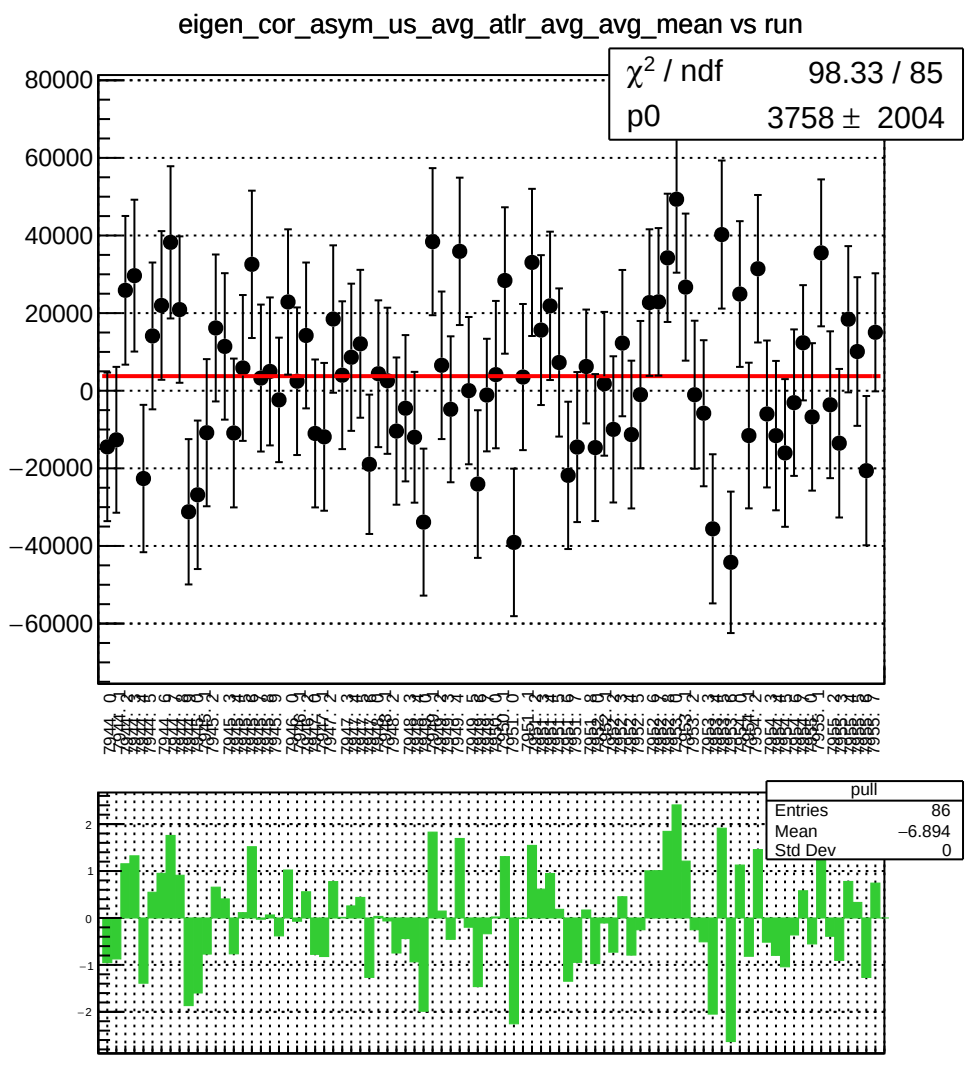

pull1D
Entries 86
Mean −0.002031
Std Dev 1.069

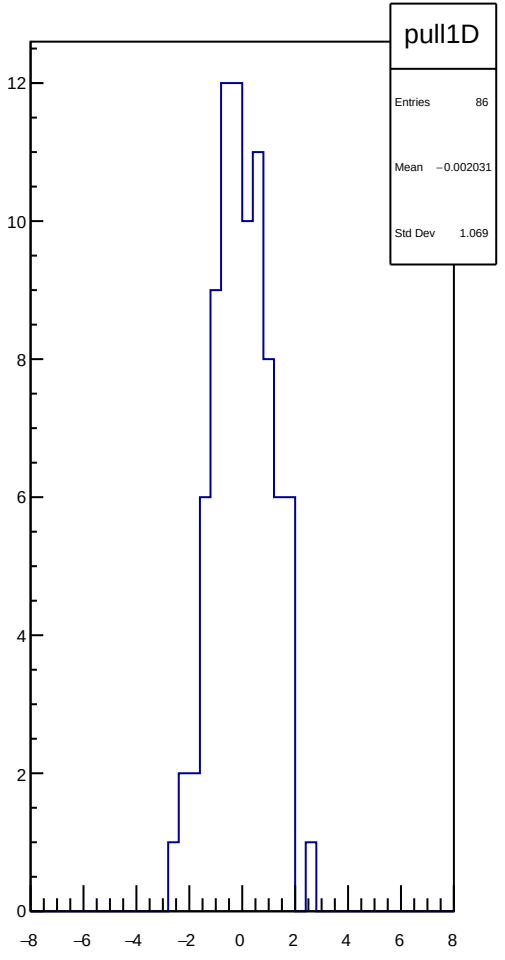

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 132.2 / 85
p0 1803 ± 1.417
1880
1860
1840
1820
1800
1780
1760
1740

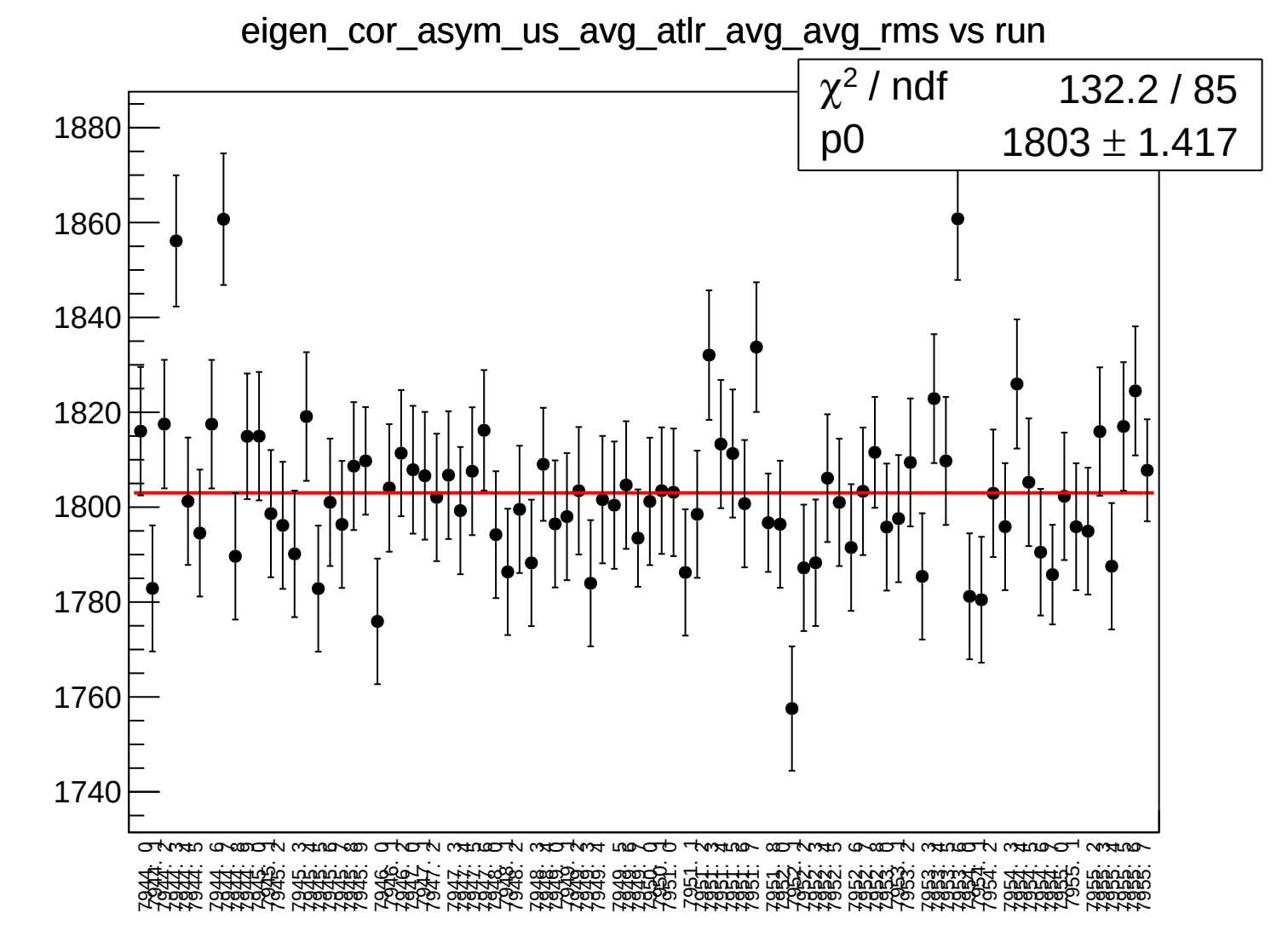

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.22 / 85
p0 −4253 ± 8864
pull
Entries 86
Mean −297.8
Std Dev 0

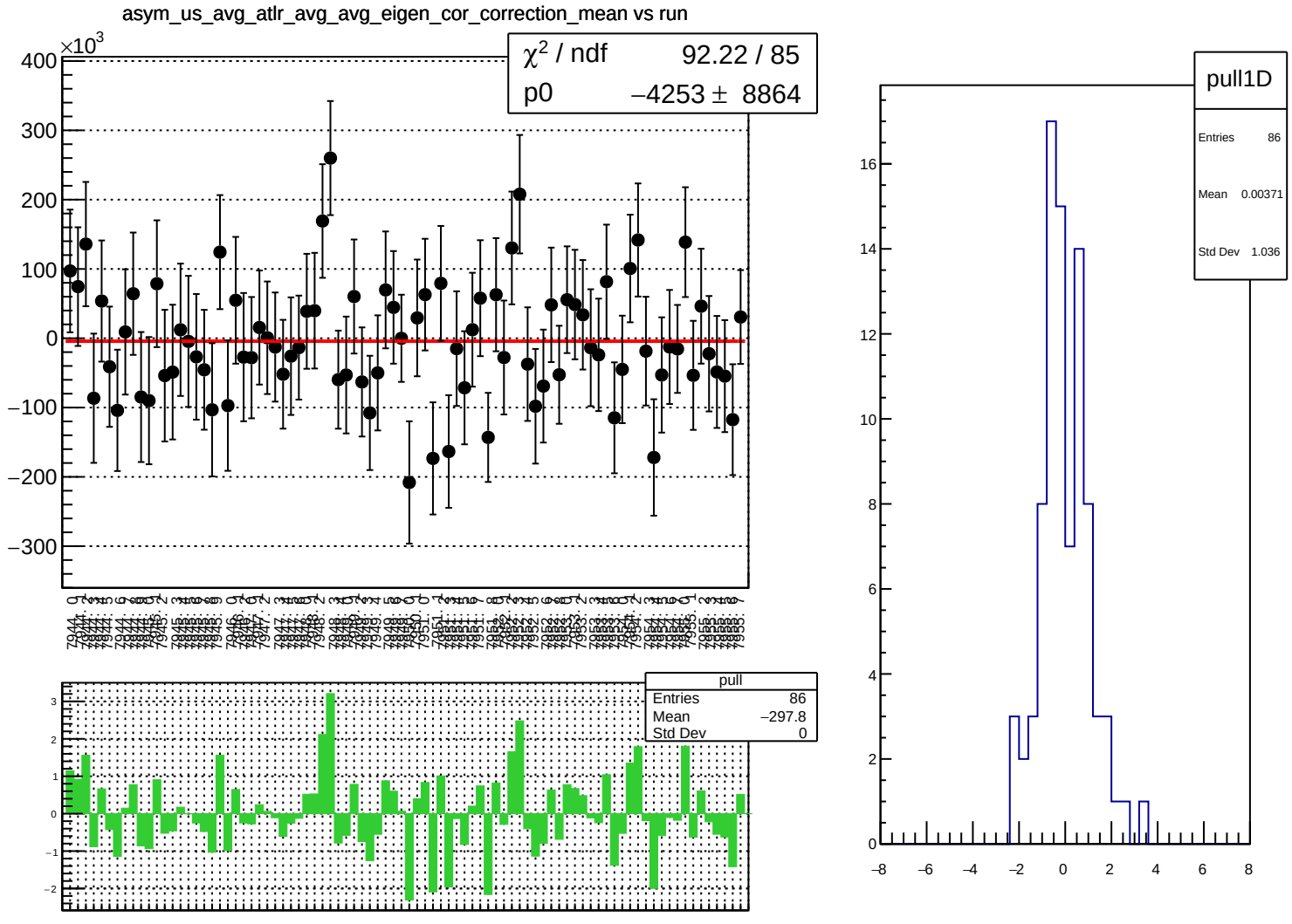

pull1D
Entries 86
Mean 0.00371
Std Dev 1.036

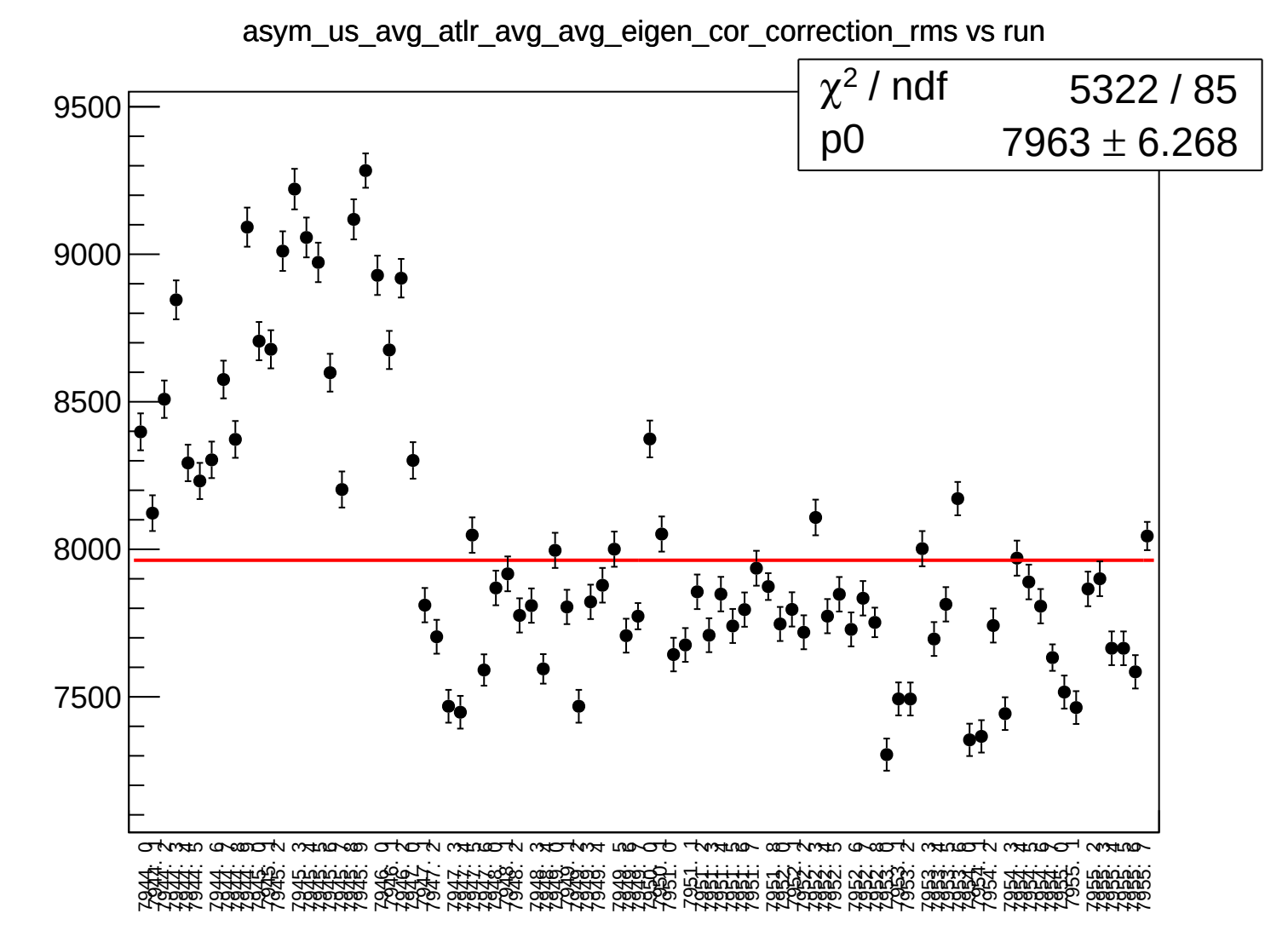

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 5322 / 85
p0 7963 ± 6.268
9500
9000
8500
8000
7500

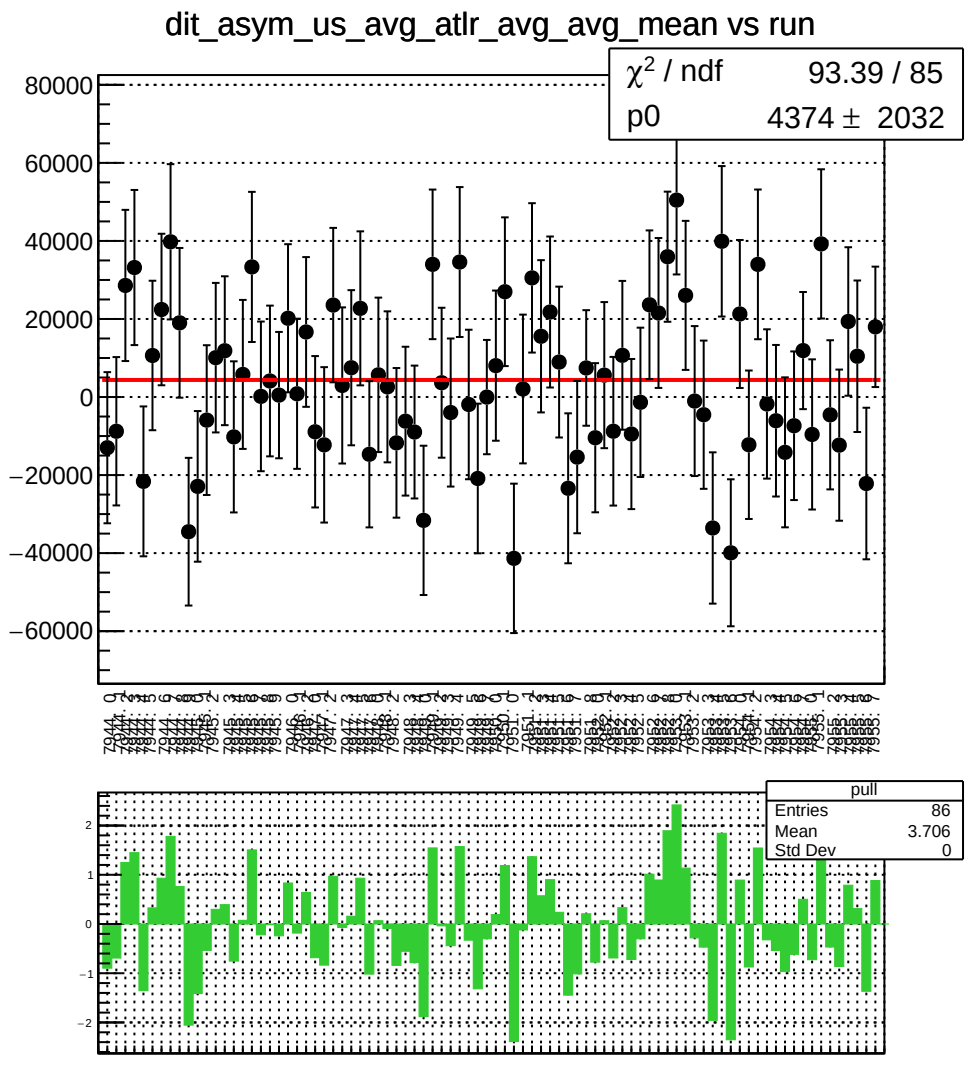

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 98.33 / 85
p0 3758 ± 2004
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −6.894
Std Dev 0
2
1
0
−1
−2

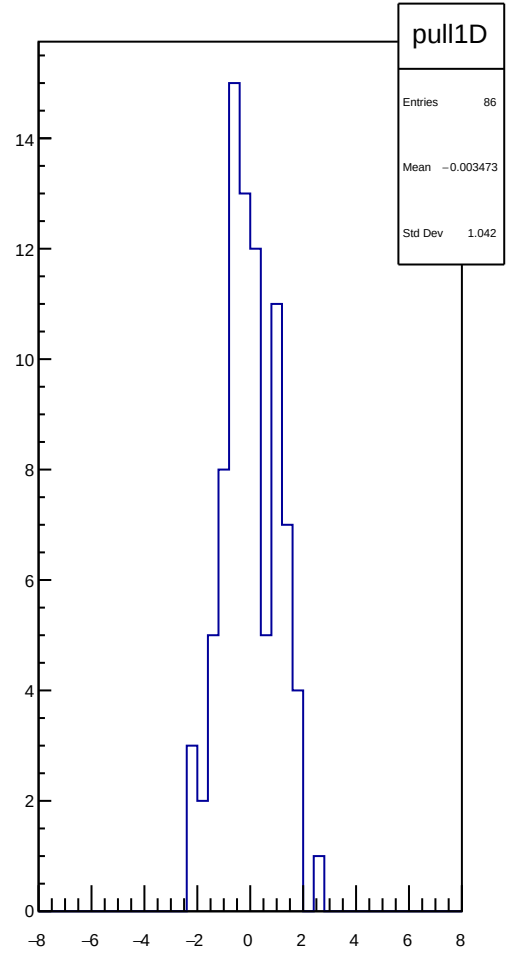

pull1D
Entries 86
Mean −0.002031
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

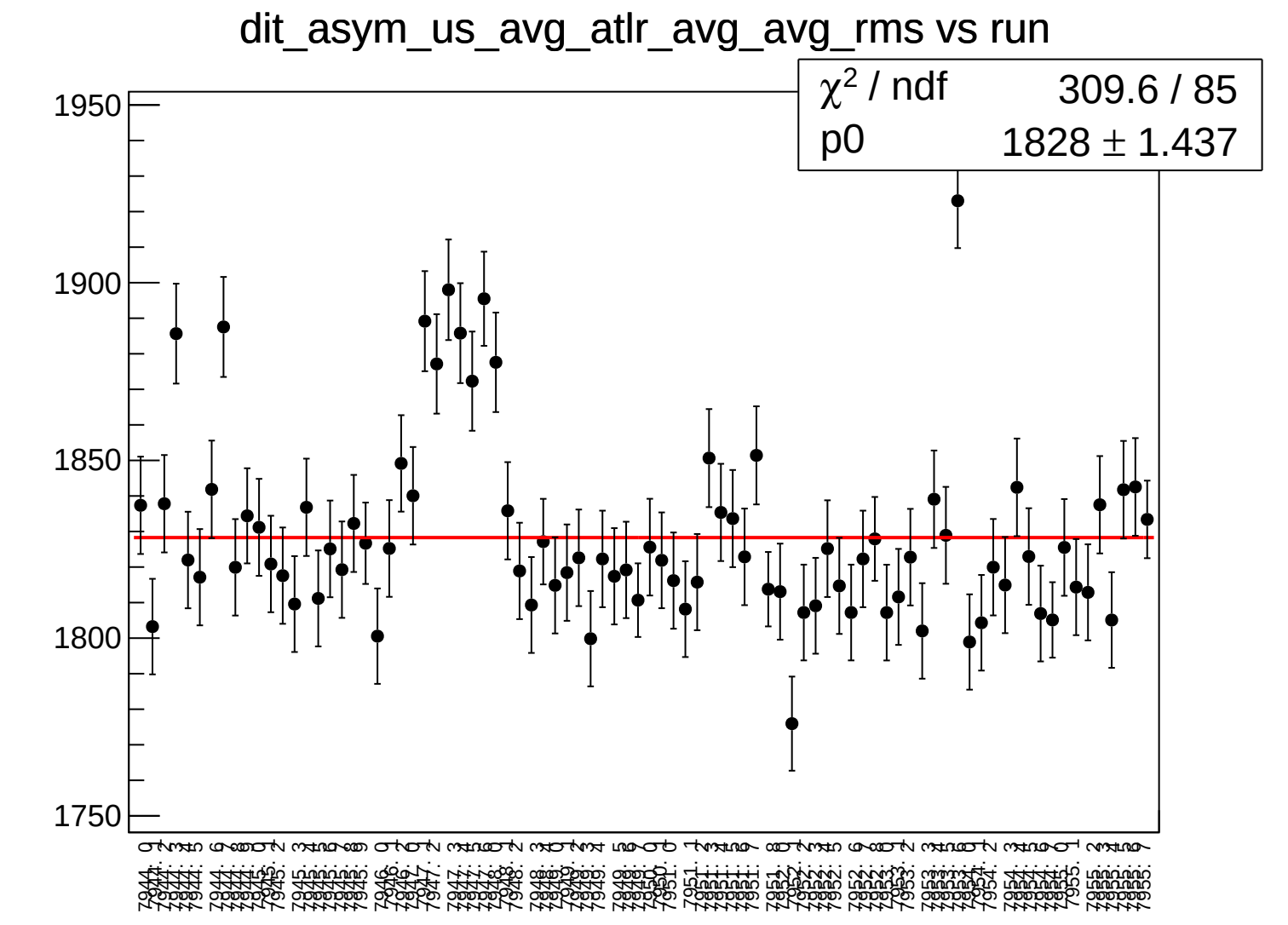

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 132.2 / 85
p0 1803 ± 1.417
1880
1860
1840
1820
1800
1780
1760
1740

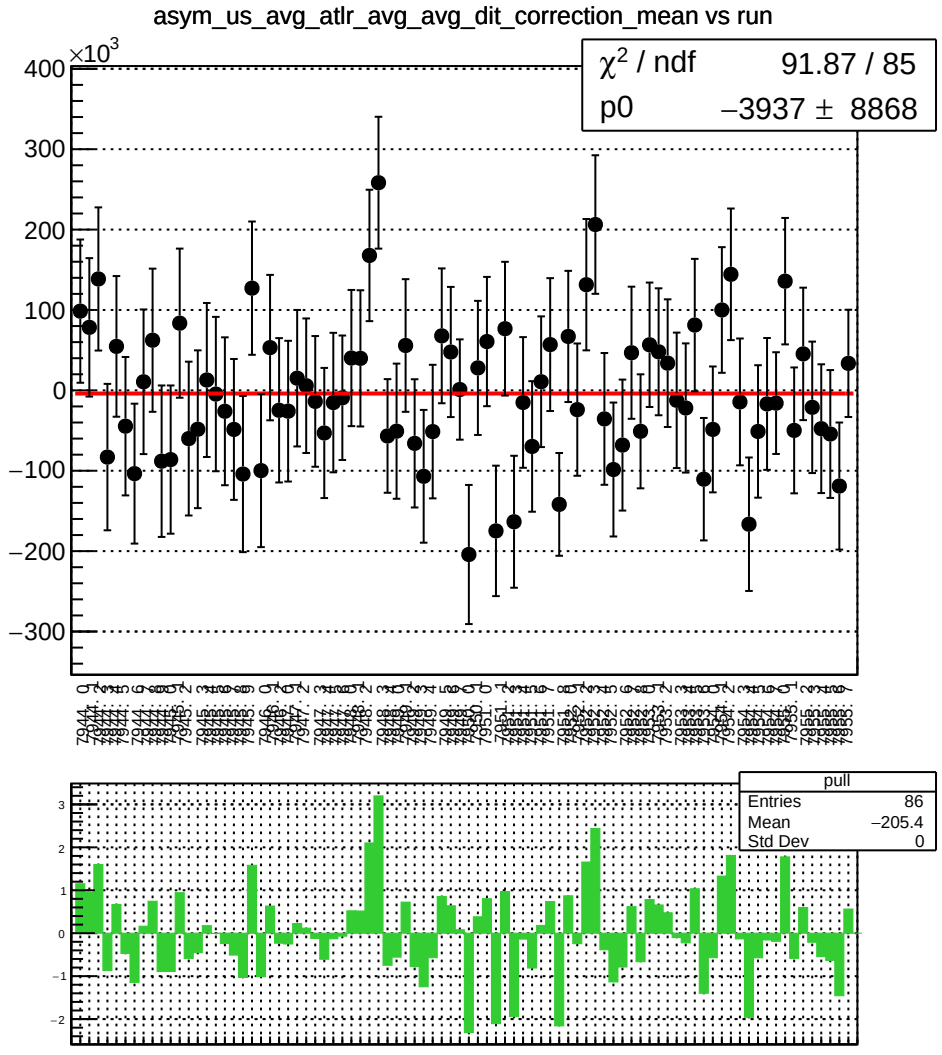

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.22 / 85
p0 −4253 ± 8864
pull
Entries 86
Mean −297.8
Std Dev 0
pull1D
Entries 86
Mean 0.00371
Std Dev 1.036

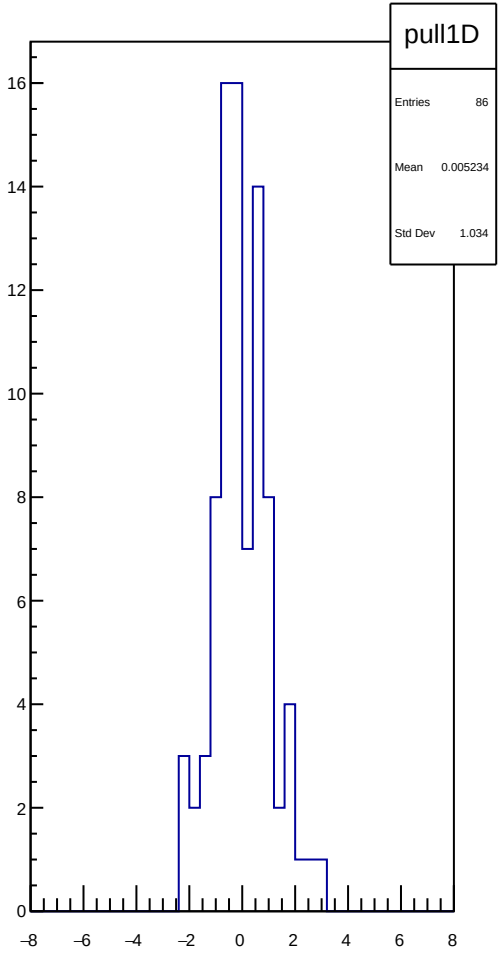

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5322 / 85
p0 7963 ± 6.268
9500
9000
8500
8000
7500

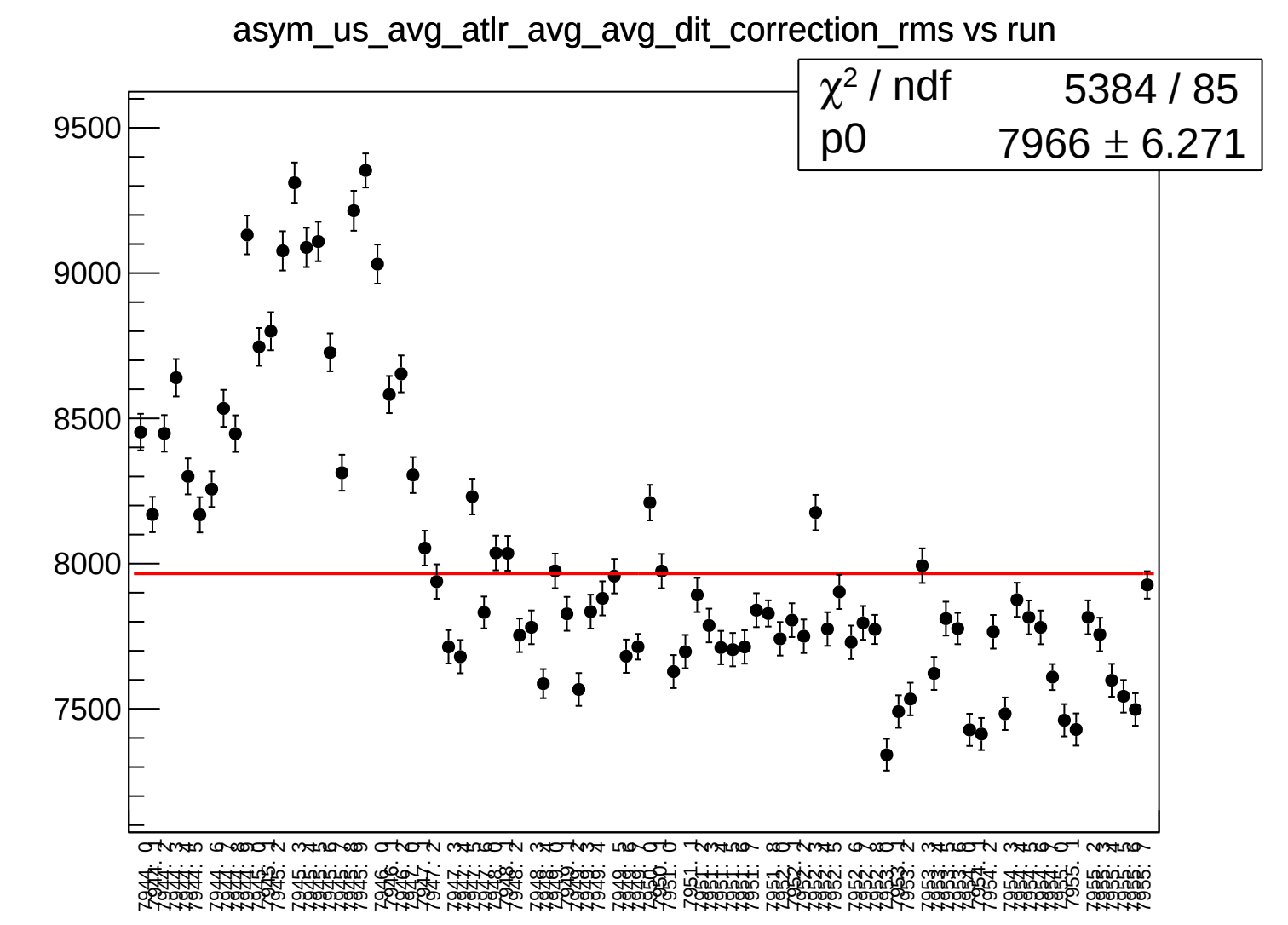

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.39 / 85
p0 4374 ± 2032
pull
Entries 86
Mean 3.706
Std Dev 0

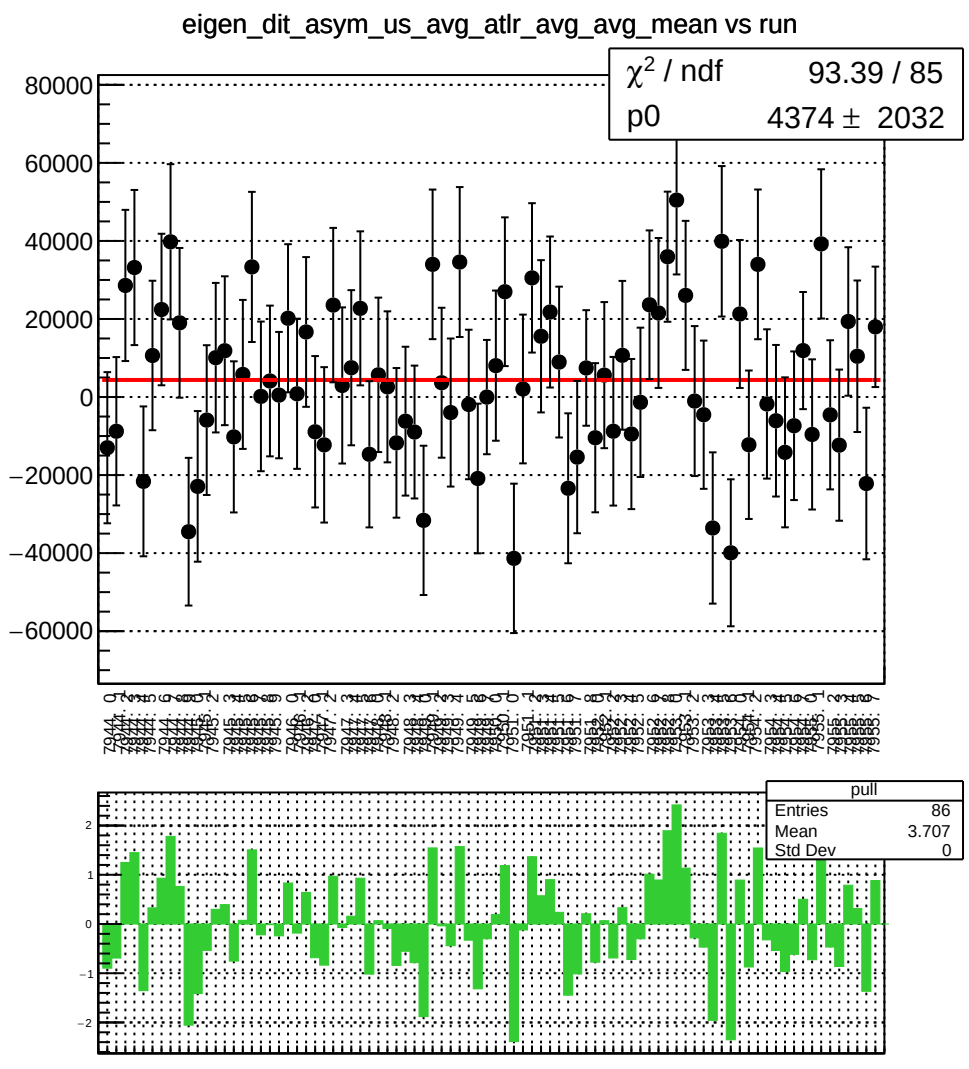

pull1D
Entries 86
Mean −0.003473
Std Dev 1.042

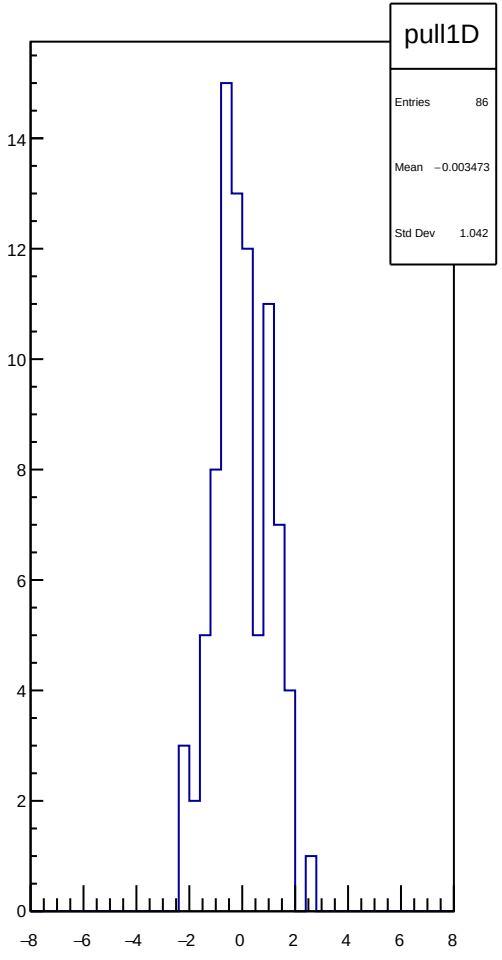

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 309.6 / 85
p0 1828 ± 1.437
1950
1900
1850
1800
1750

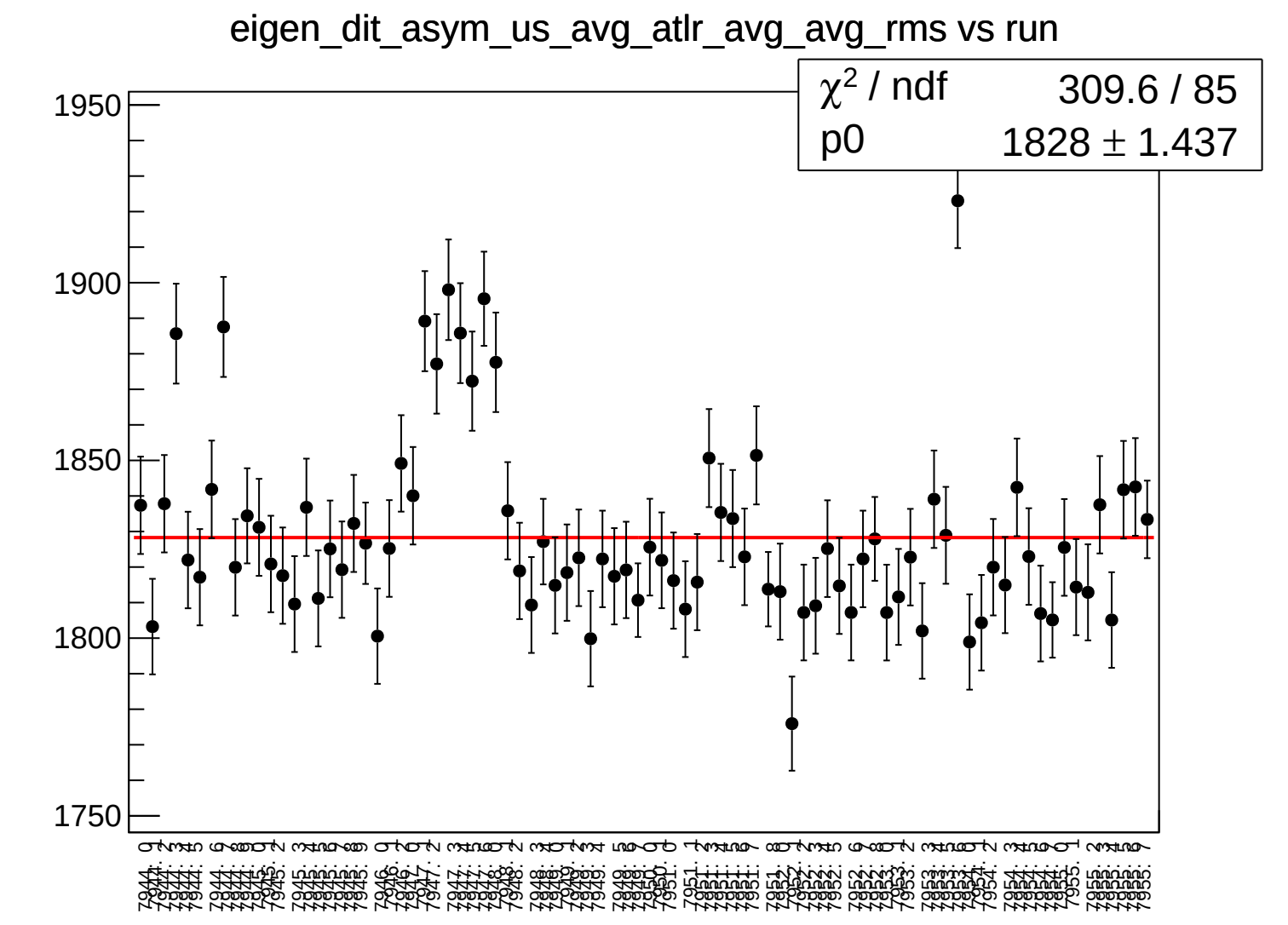

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.87 / 85
p0 −3937 ± 8868
pull
Entries 86
Mean −205.4
Std Dev 0

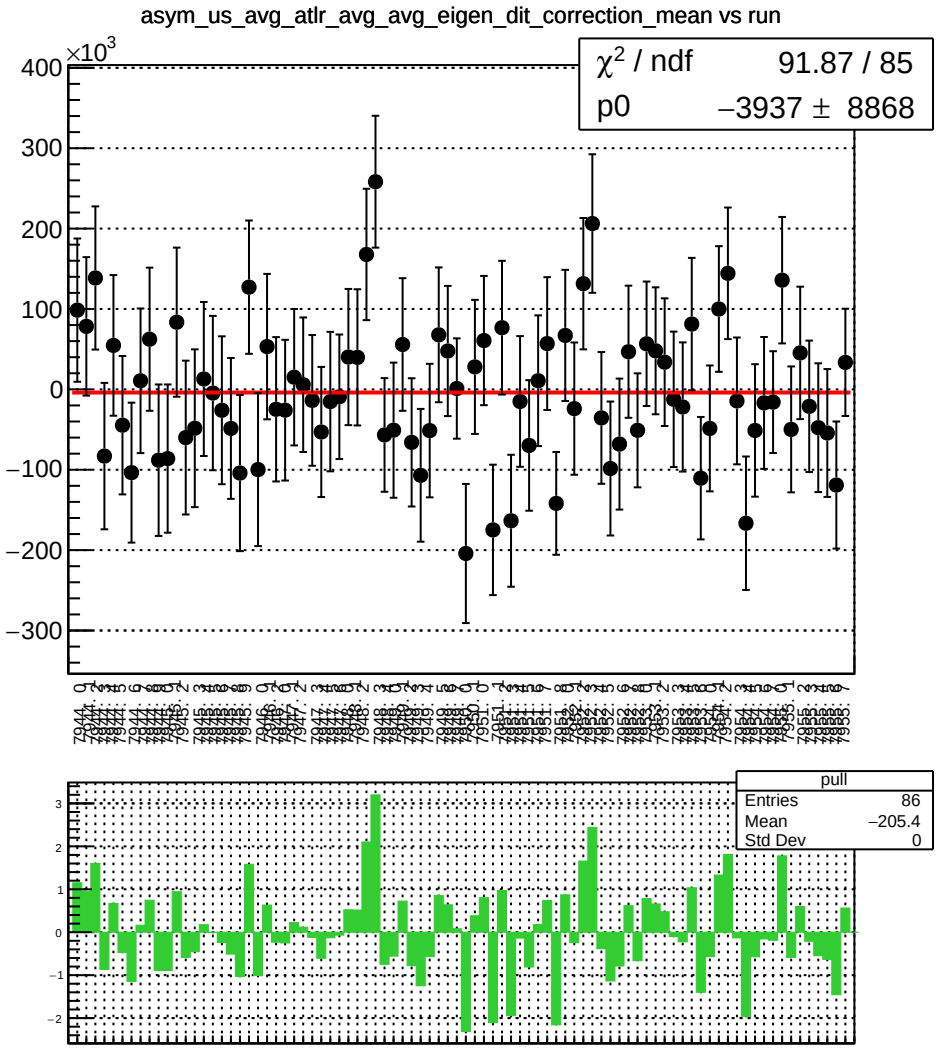

pull1D
Entries 86
Mean 0.005234
Std Dev 1.034

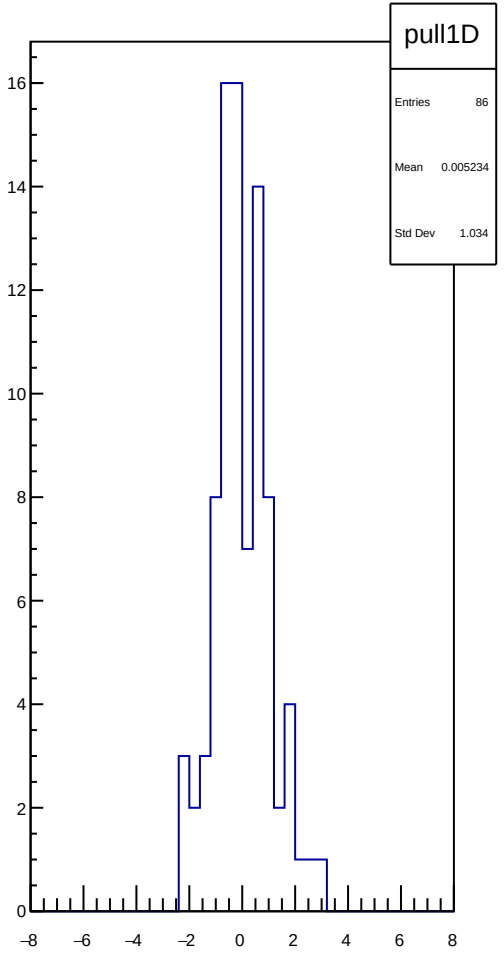

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 5384 / 85
p0 7966 ± 6.271
9500
9000
8500
8000
7500

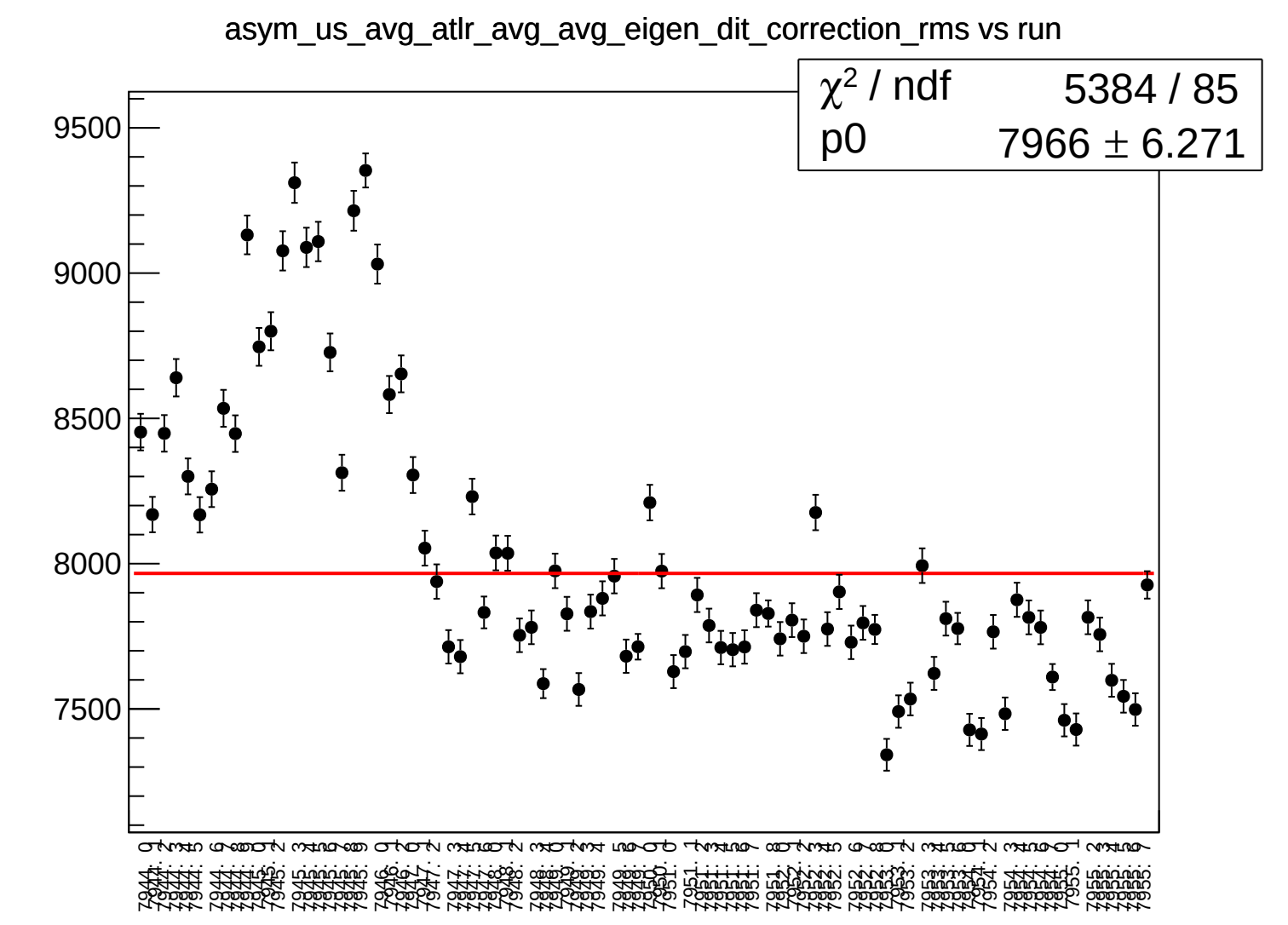

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.39 / 85
p0 4374 ± 2032
pull
Entries 86
Mean 3.707
Std Dev 0

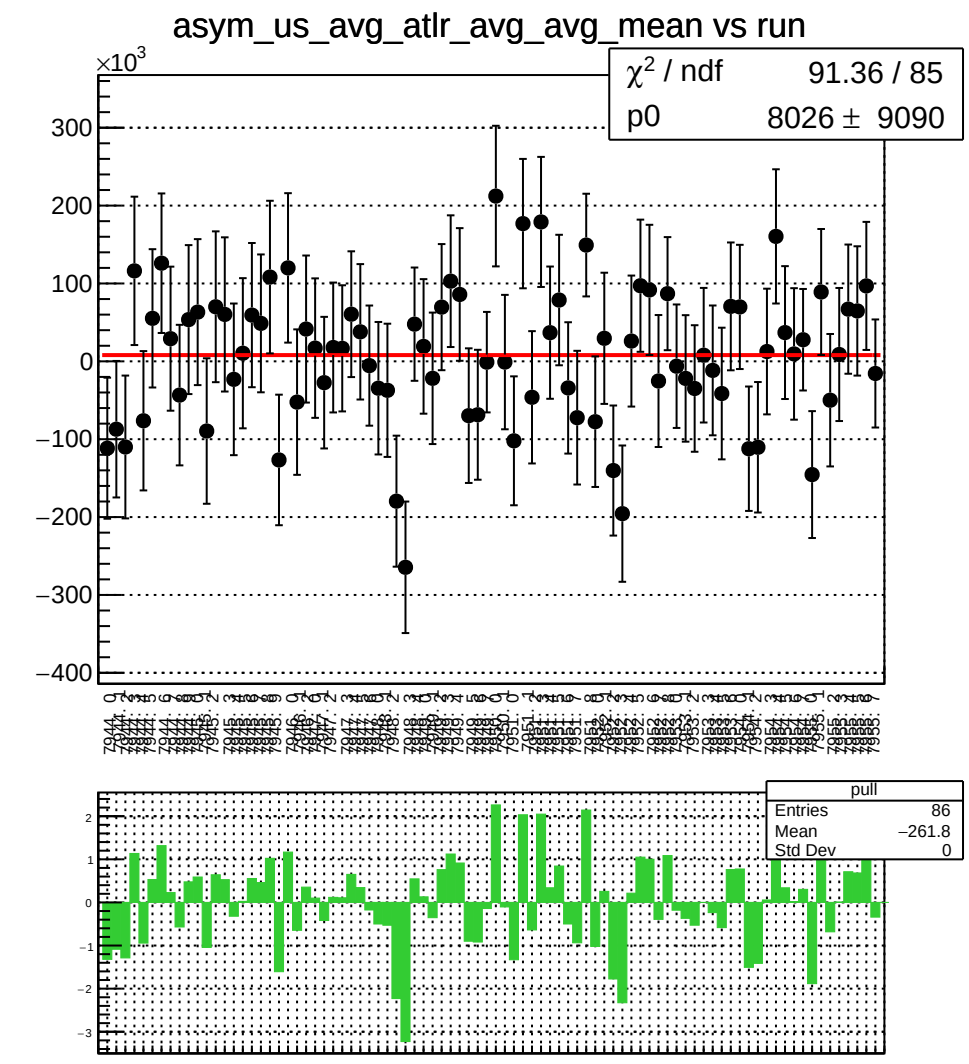

pull1D
Entries 86
Mean −0.003473
Std Dev 1.042

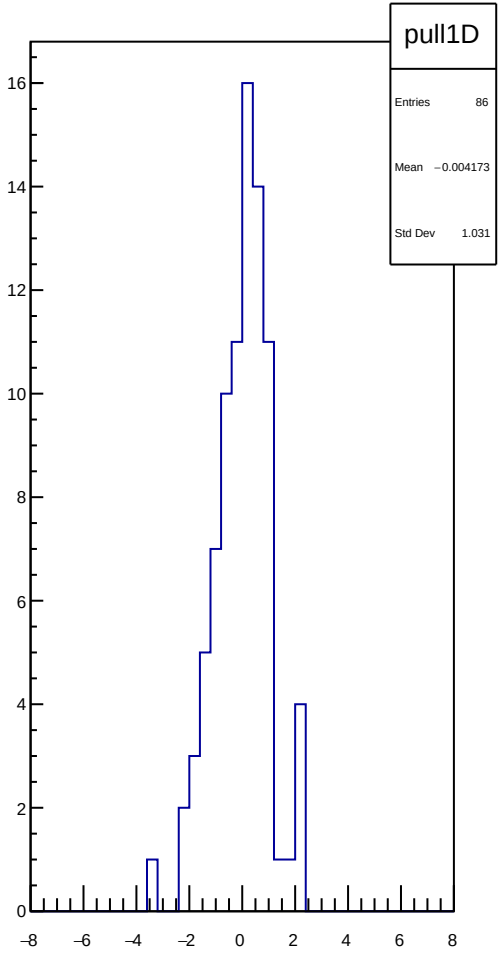

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 309.6 / 85
p0 1828 ± 1.437
1950
1900
1850
1800
1750

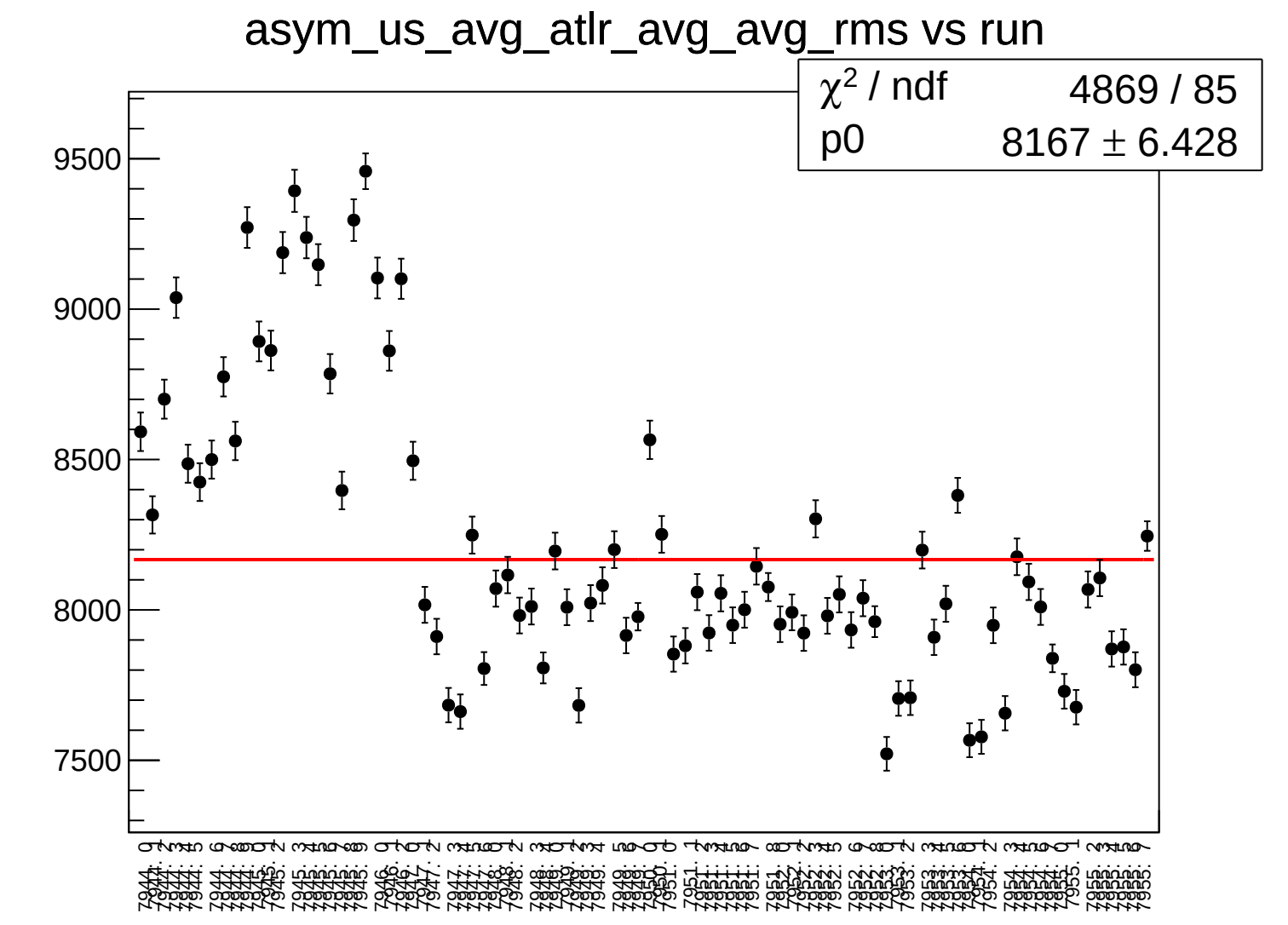

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 91.87 / 85
p0 −3937 ± 8868
pull
Entries 86
Mean −205.4
Std Dev 0
3
2
1
0
−1
−2

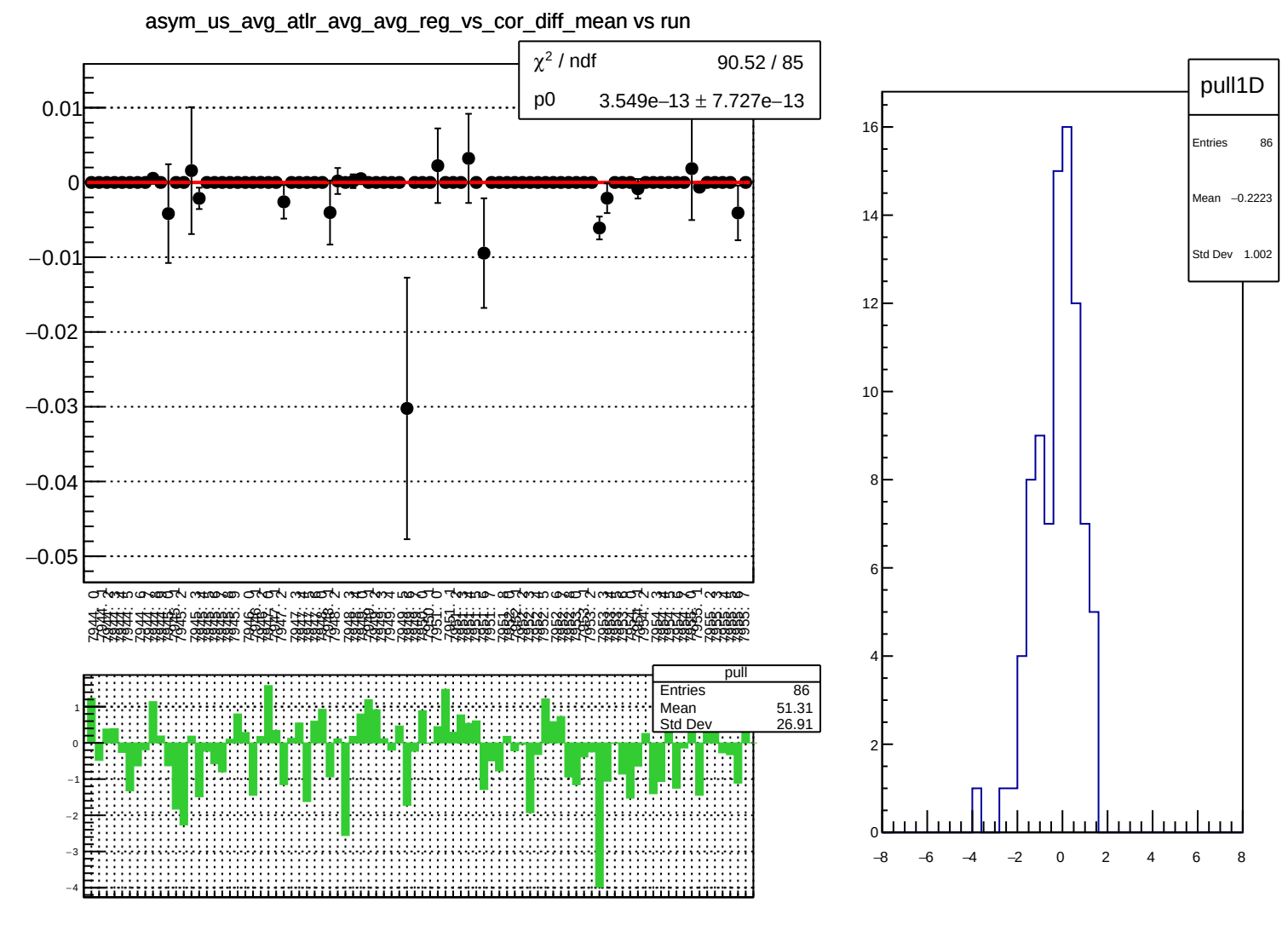

pull1D
Entries 86
Mean 0.005234
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

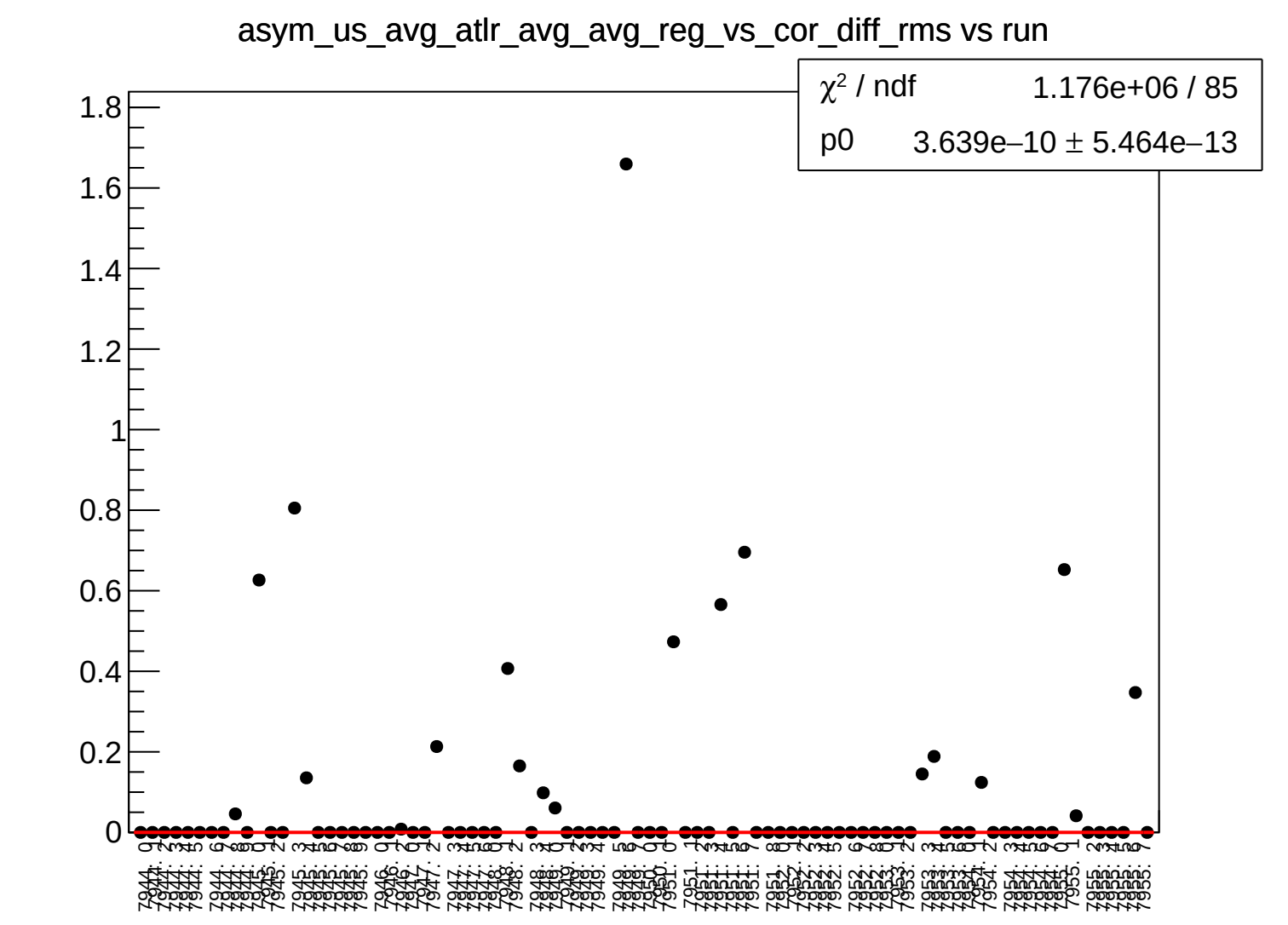

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5384 / 85
p0 7966 ± 6.271
9500
9000
8500
8000
7500

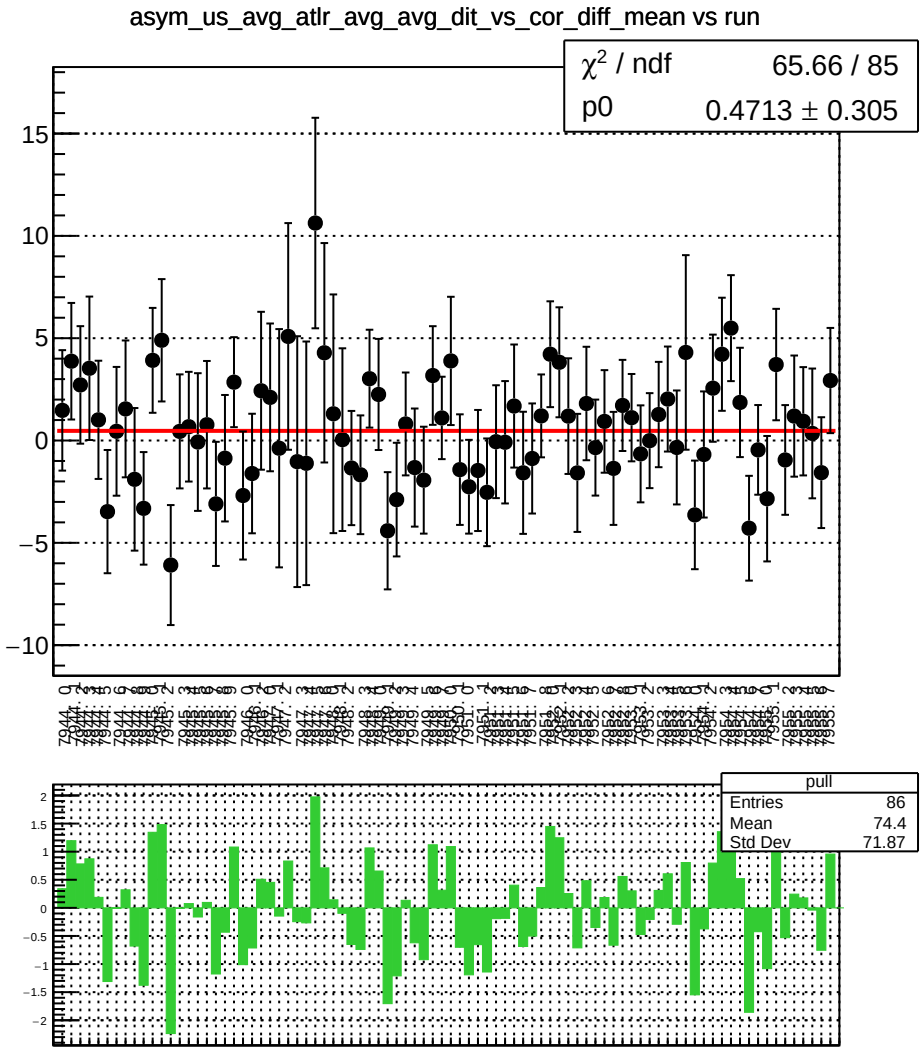

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 91.36 / 85
p0 8026 ± 9090
pull
Entries 86
Mean −261.8
Std Dev 0

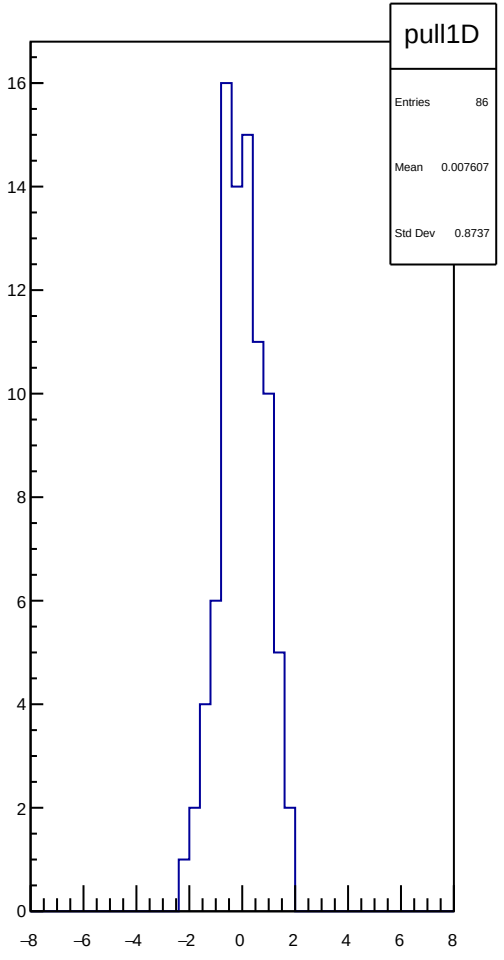

pull1D
Entries 86
Mean −0.004173
Std Dev 1.031

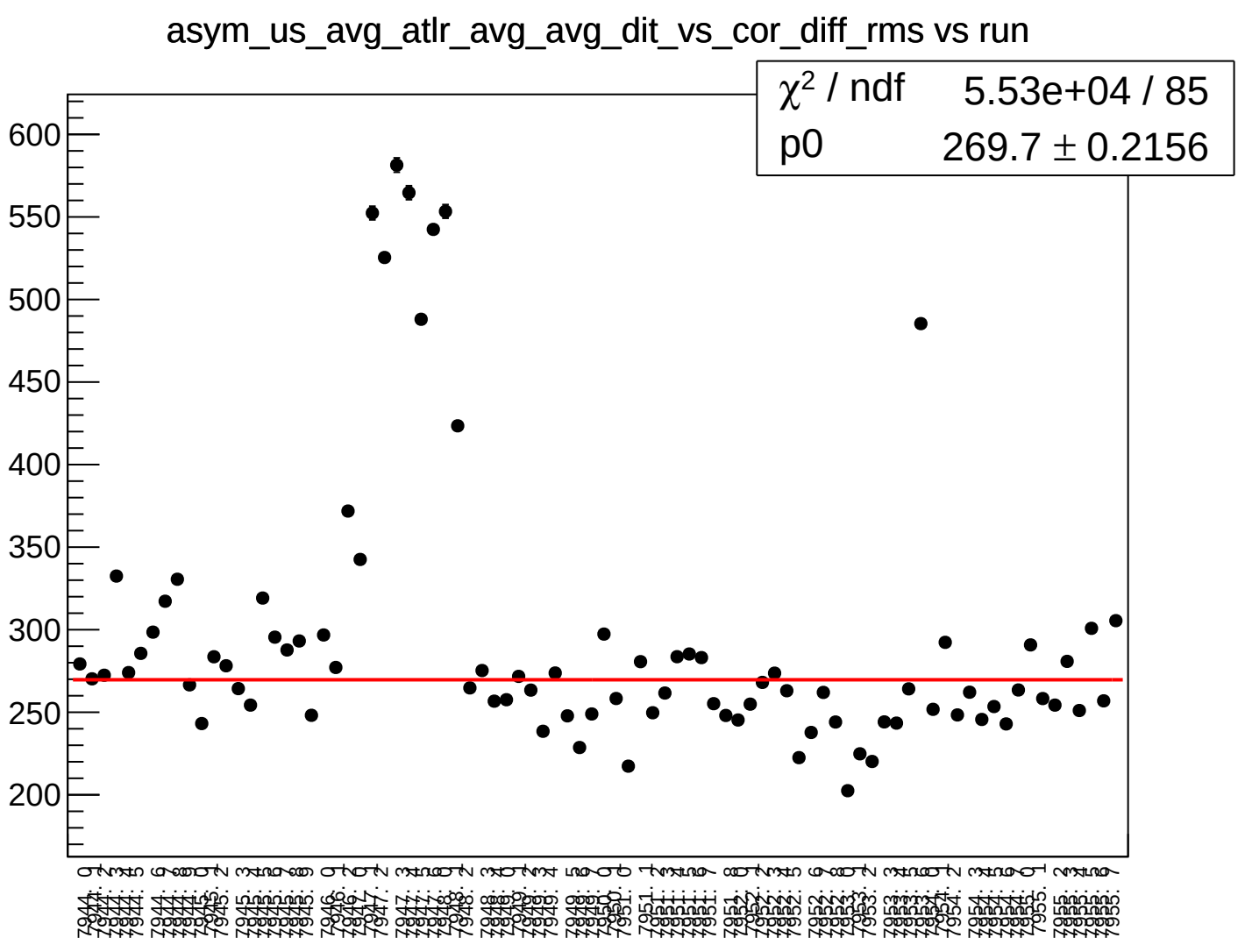

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 4869 / 85
p0 8167 ± 6.428
9500
9000
8500
8000
7500

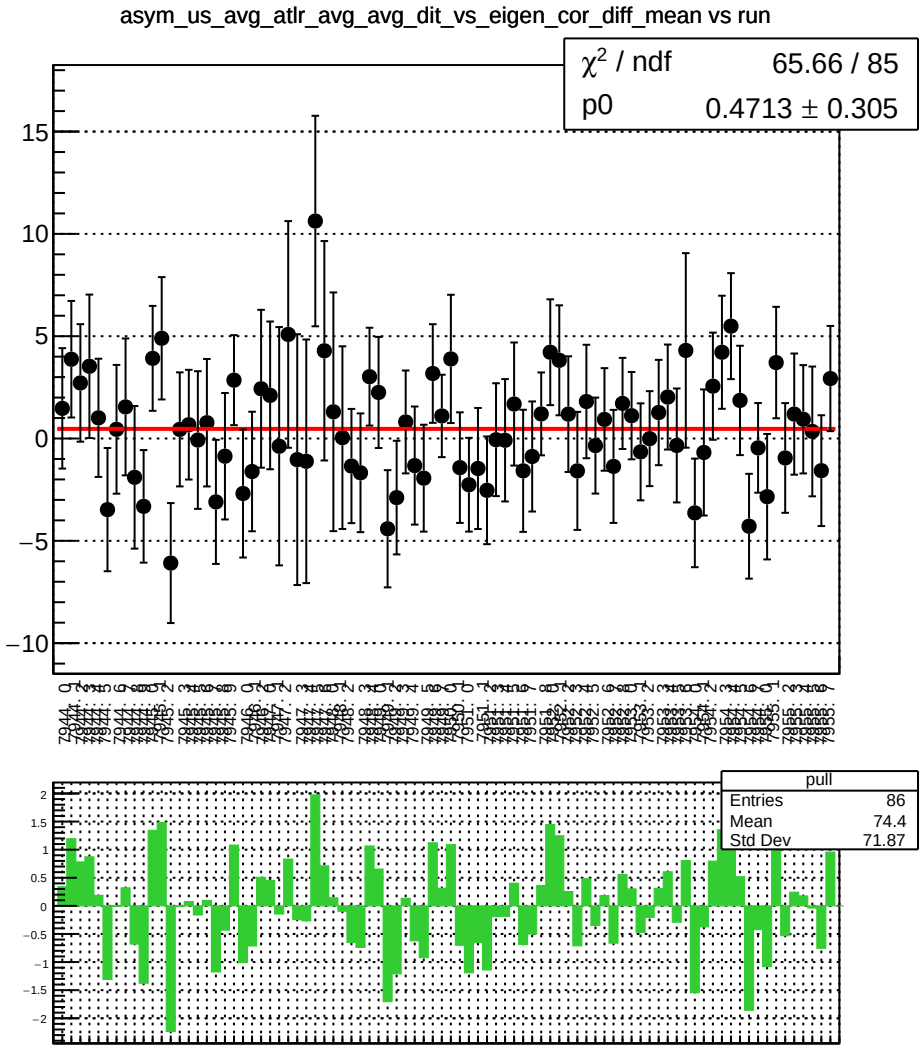

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.52 / 85
p0 3.549e−13 ± 7.727e−13
pull
Entries 86
Mean 51.31
Std Dev 26.91
pull1D
Entries 86
Mean −0.2223
Std Dev 1.002

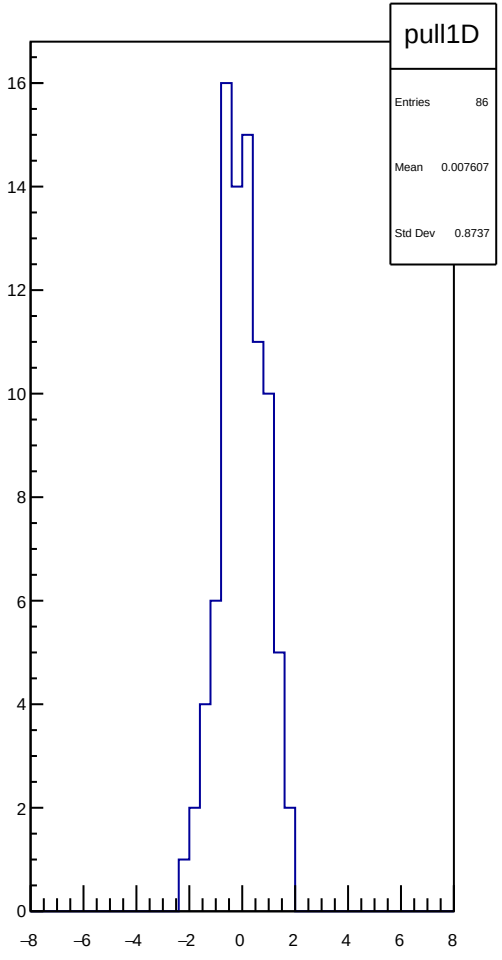

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.176e+06 / 85
p0 3.639e−10 ± 5.464e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

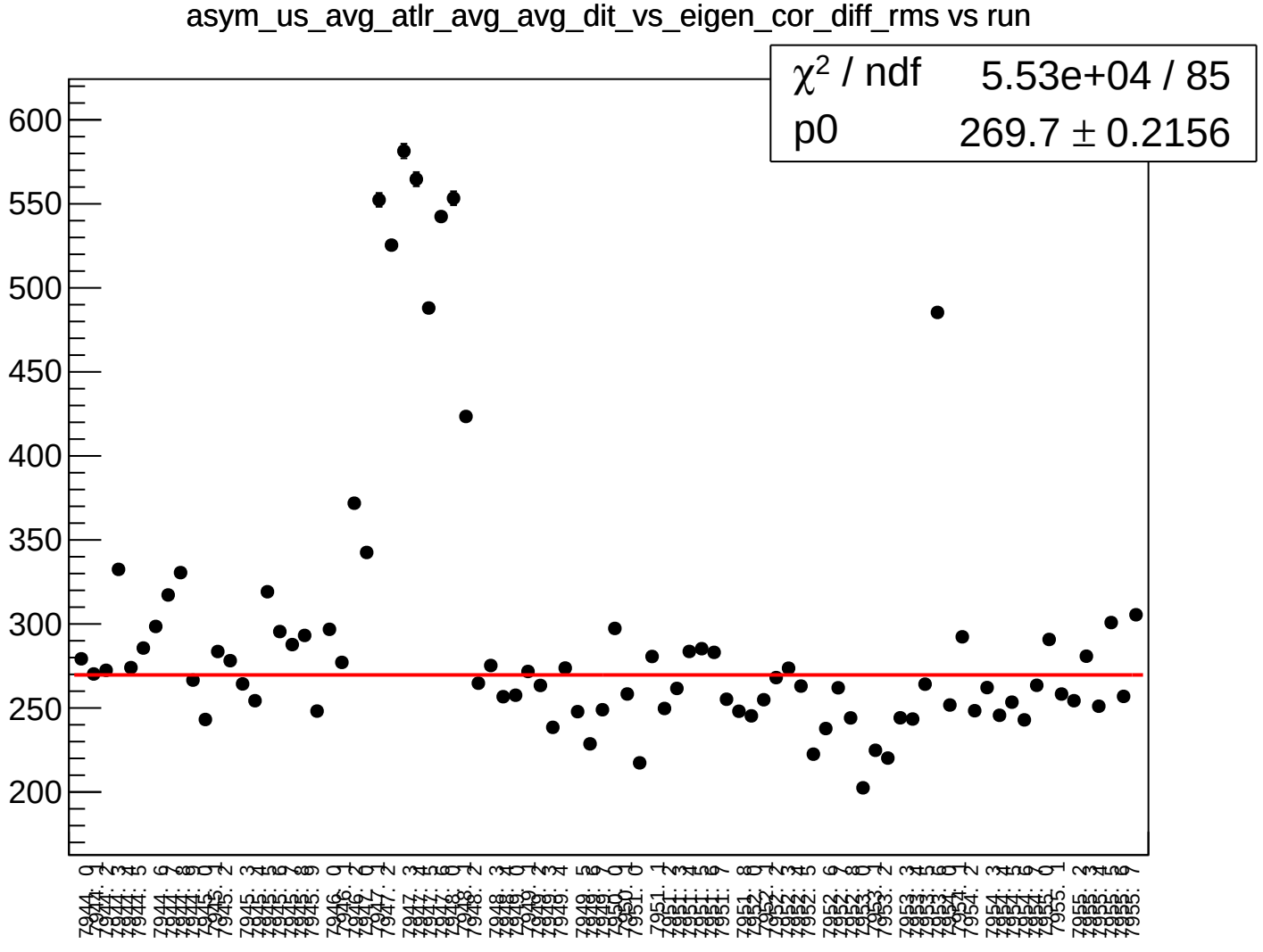

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.66 / 85
p0 0.4713 ± 0.305
pull
Entries 86
Mean 74.4
Std Dev 71.87

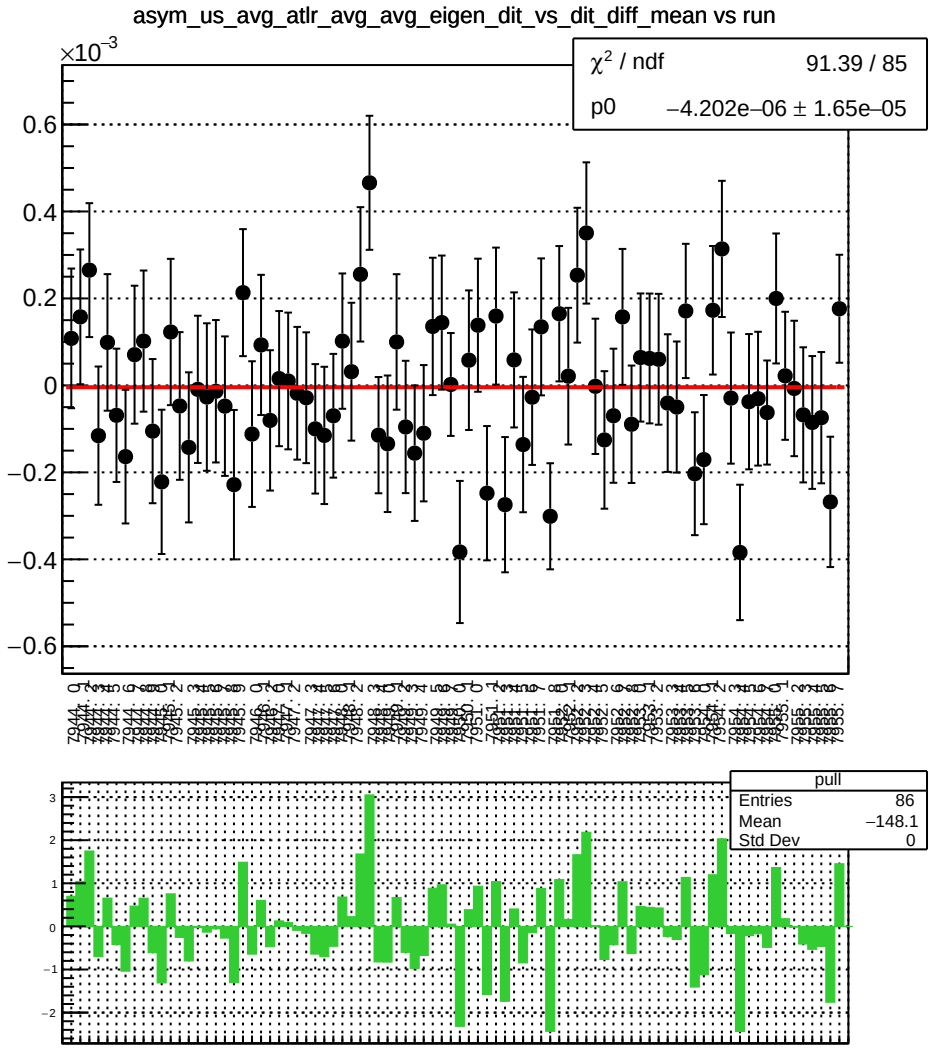

pull1D
Entries 86
Mean 0.007607
Std Dev 0.8737

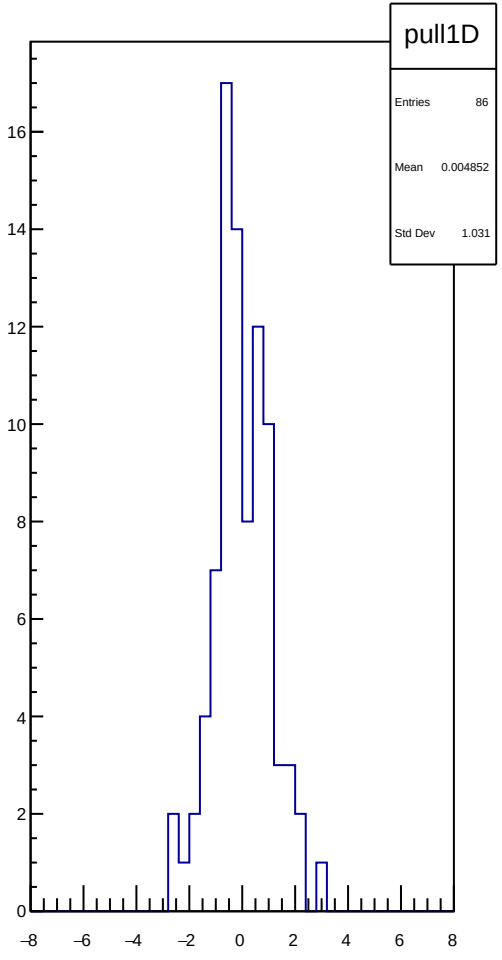

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.53e+04 / 85
p0 269.7 ± 0.2156
600
550
500
450
400
350
300
250
200

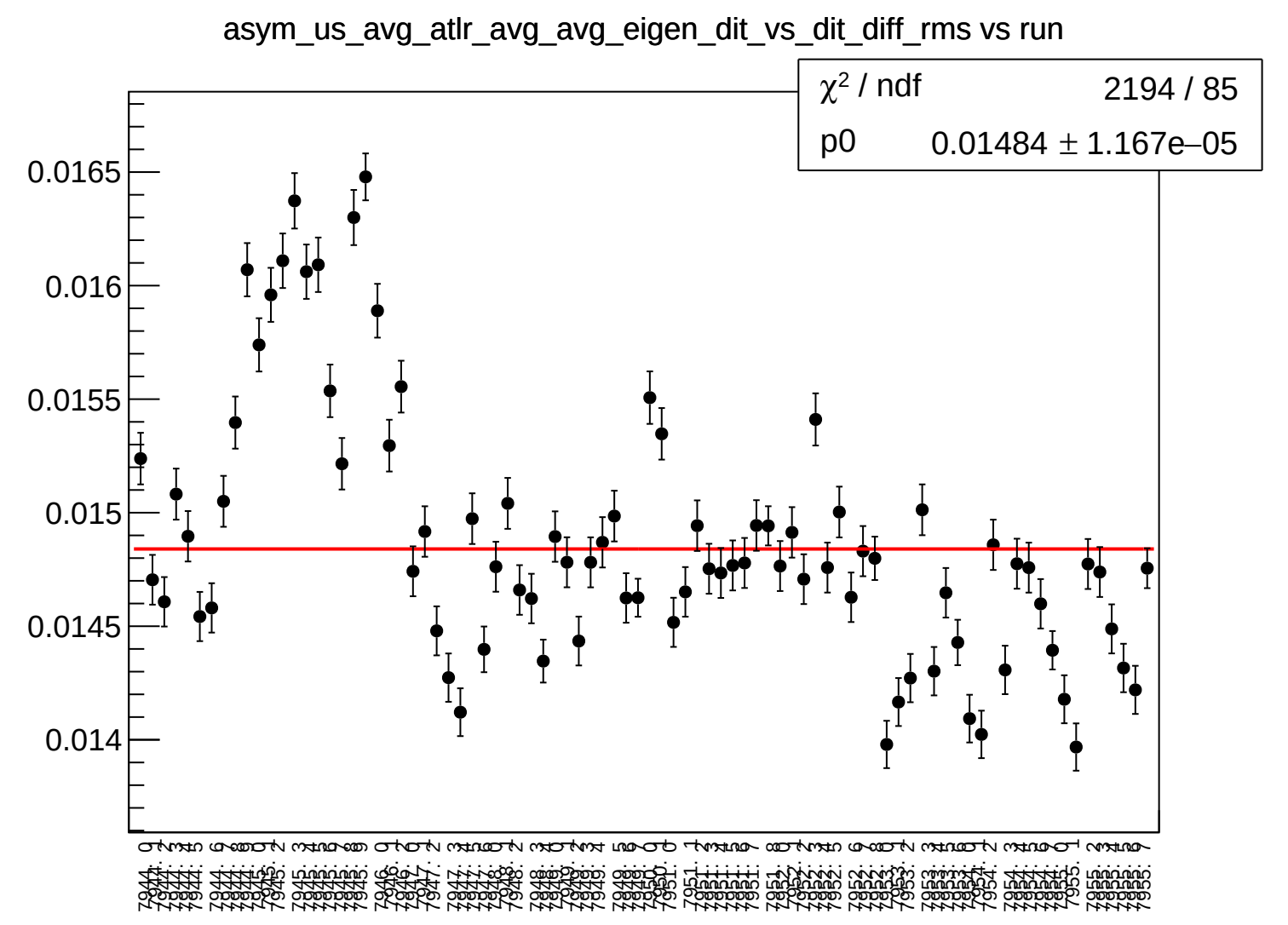

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.66 / 85
p0 0.4713 ± 0.305
pull
Entries 86
Mean 74.4
Std Dev 71.87

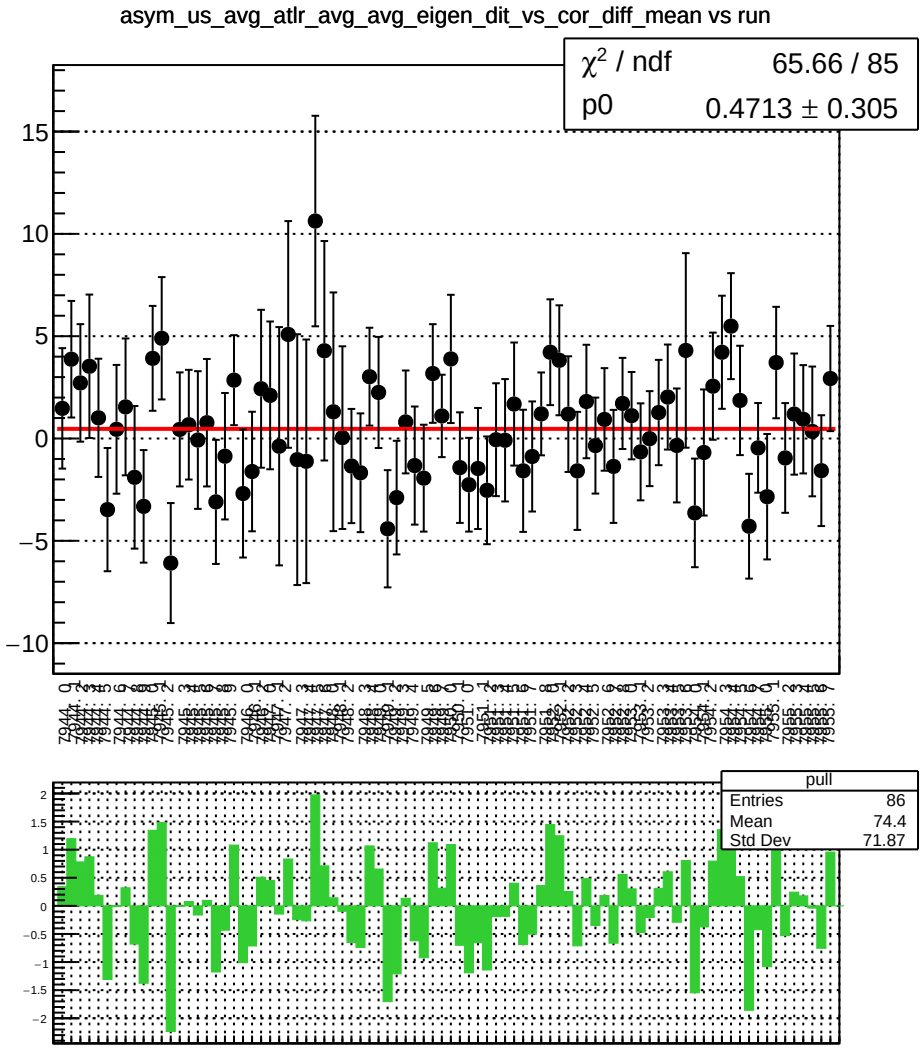

pull1D
Entries 86
Mean 0.007607
Std Dev 0.8737

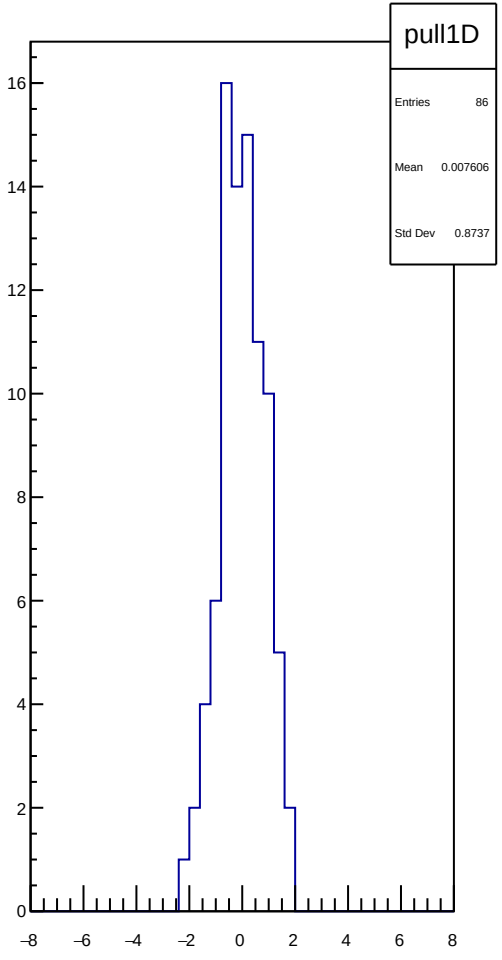

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.53e+04 / 85
p0 269.7 ± 0.2156
600
550
500
450
400
350
300
250
200

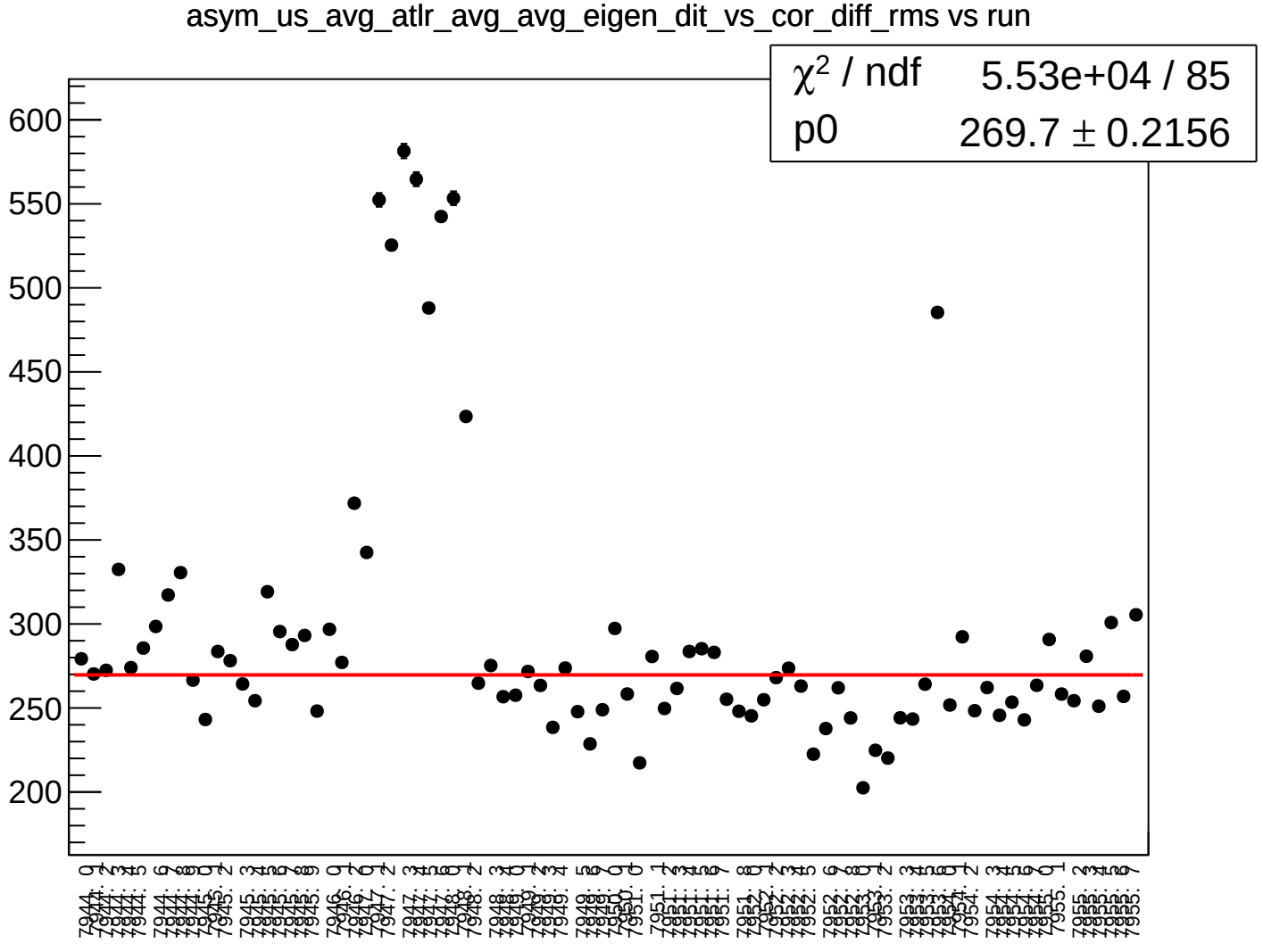

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.39 / 85
p0 −4.202e−06 ± 1.65e−05
pull
Entries 86
Mean −148.1
Std Dev 0

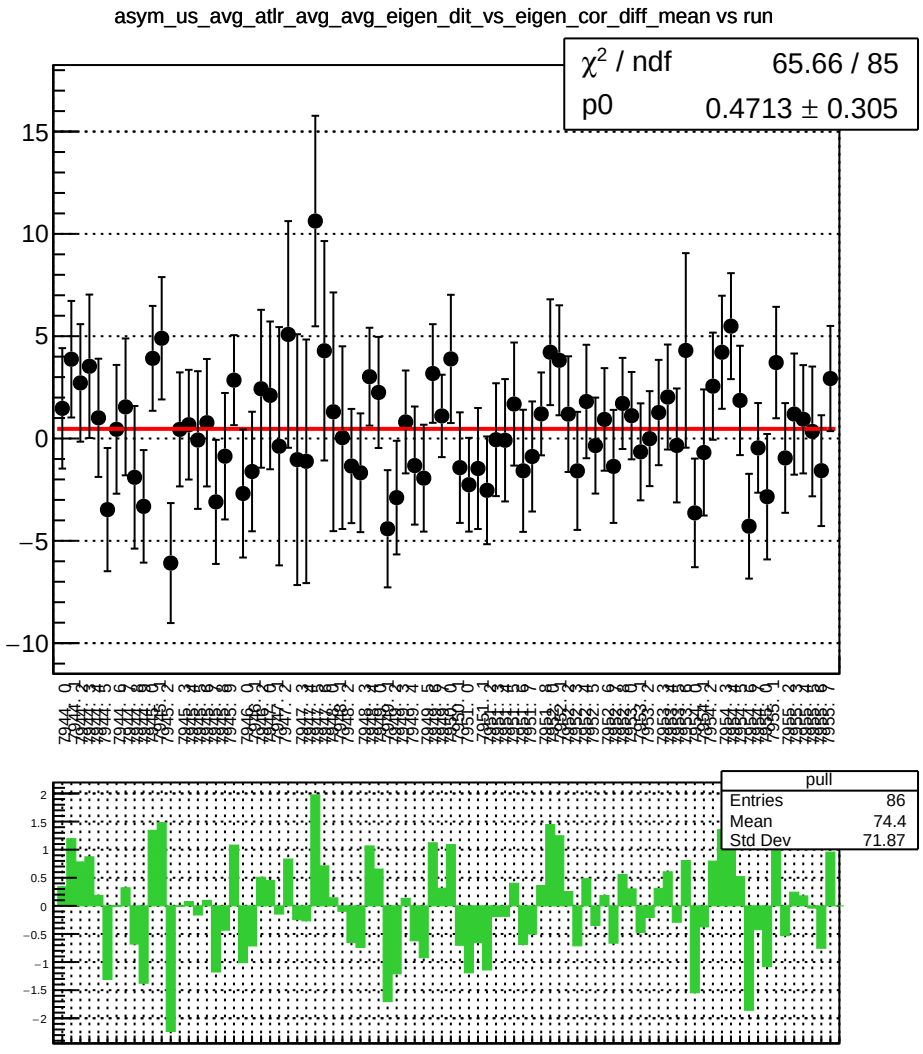

pull1D
Entries 86
Mean 0.004852
Std Dev 1.031

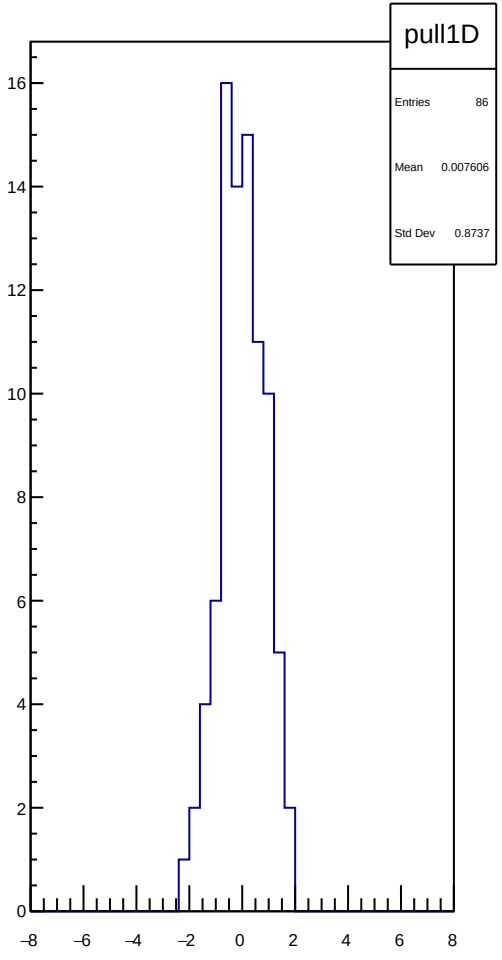

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2194 / 85
p0 0.01484 ± 1.167e–05
0.0165
0.016
0.0155
0.015
0.0145
0.014

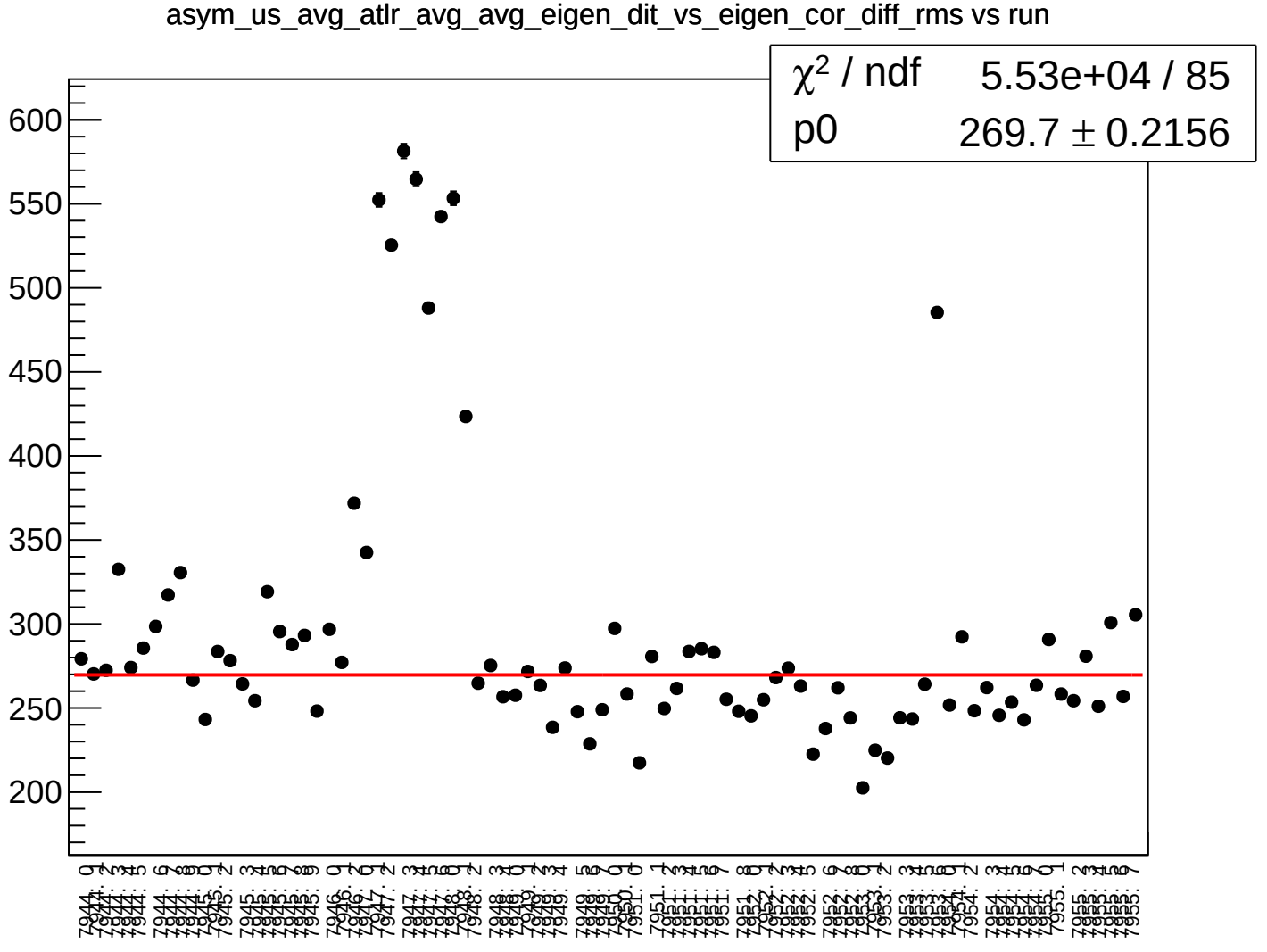

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.66 / 85
p0 0.4713 ± 0.305
pull
Entries 86
Mean 74.4
Std Dev 71.87

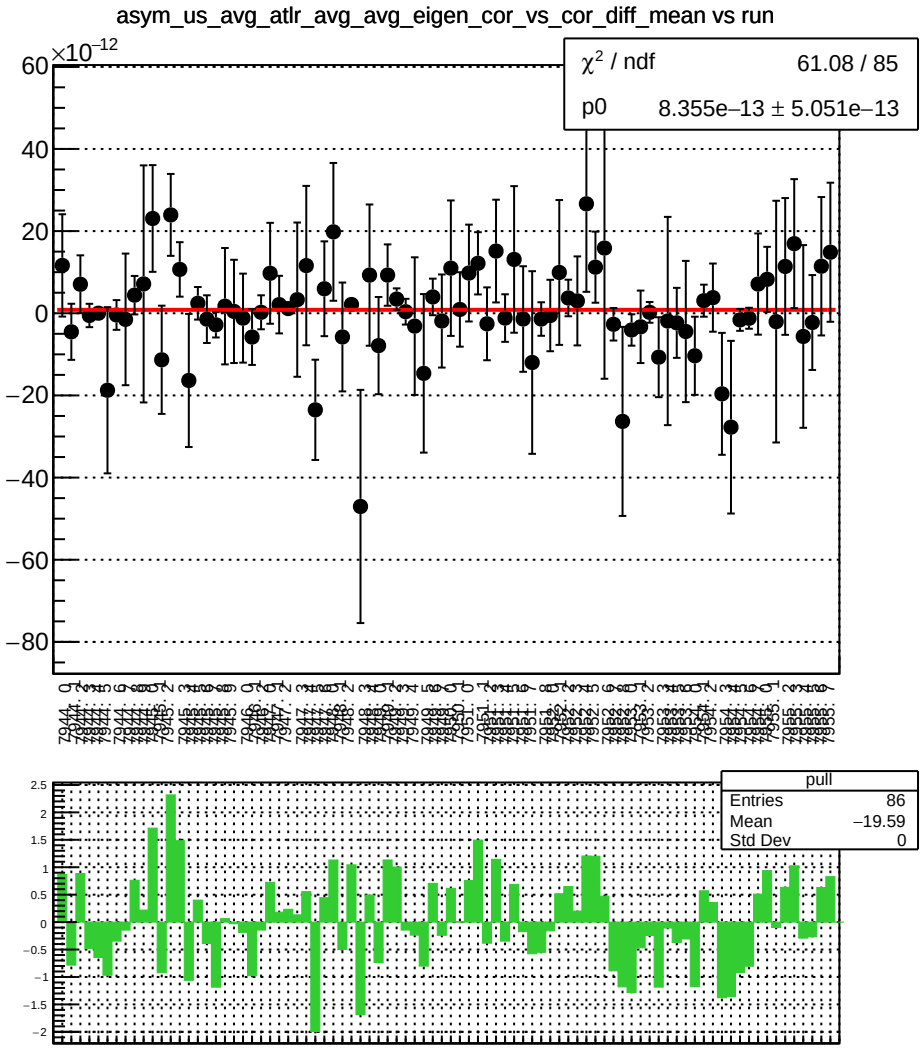

pull1D
Entries 86
Mean 0.007606
Std Dev 0.8737

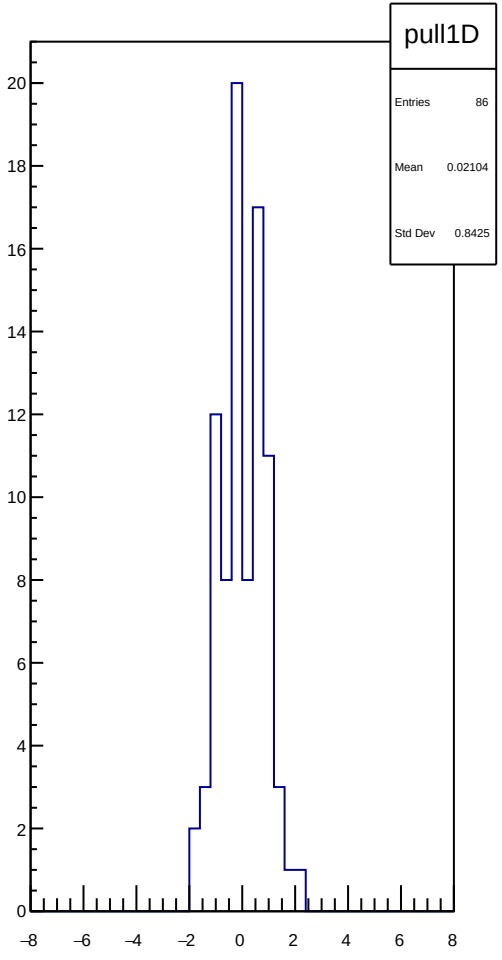

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.53e+04 / 85
p0 269.7 ± 0.2156
600
550
500
450
400
350
300
250
200

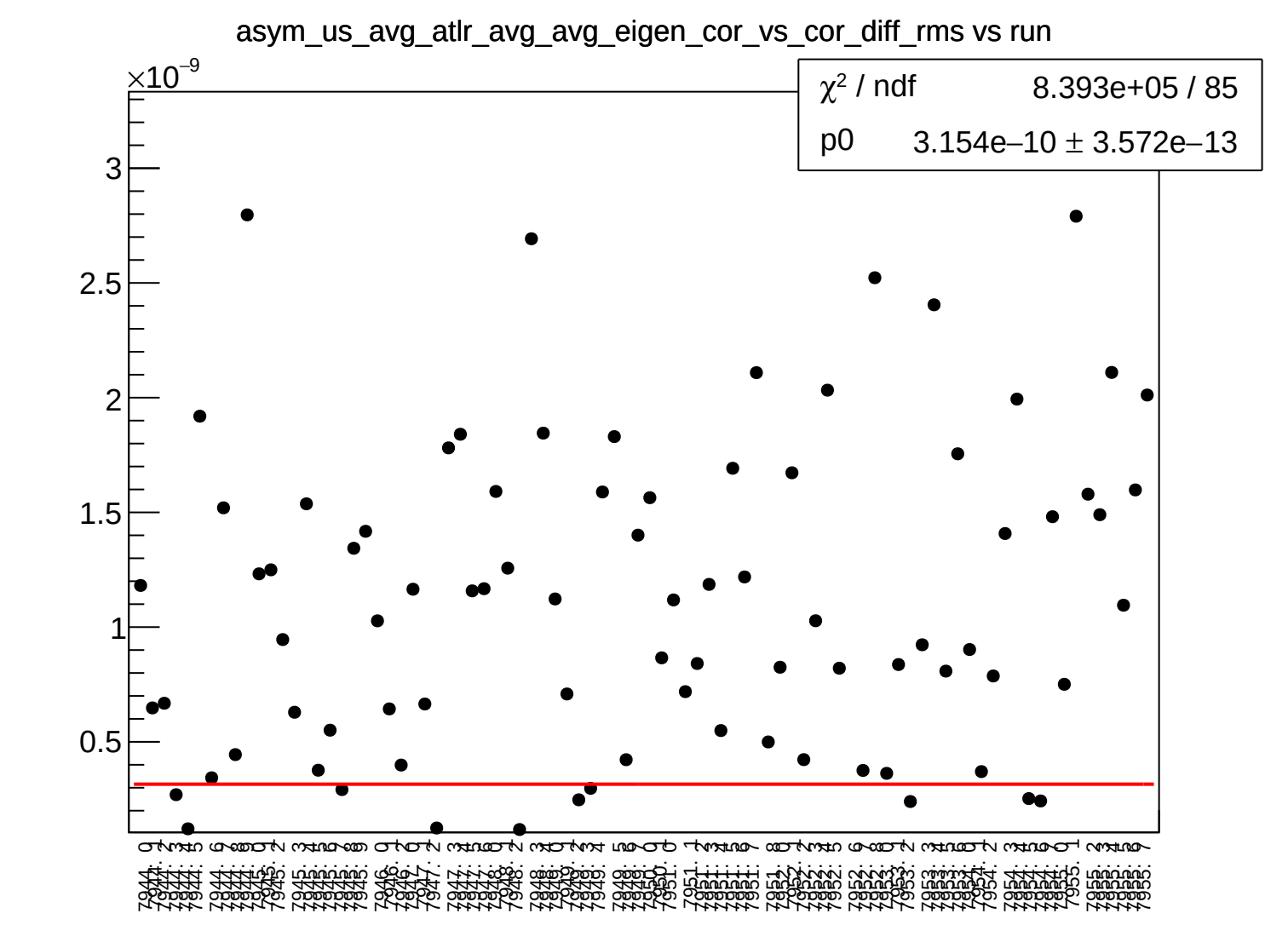

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.66 / 85
p0 0.4713 ± 0.305
pull
Entries 86
Mean 74.4
Std Dev 71.87

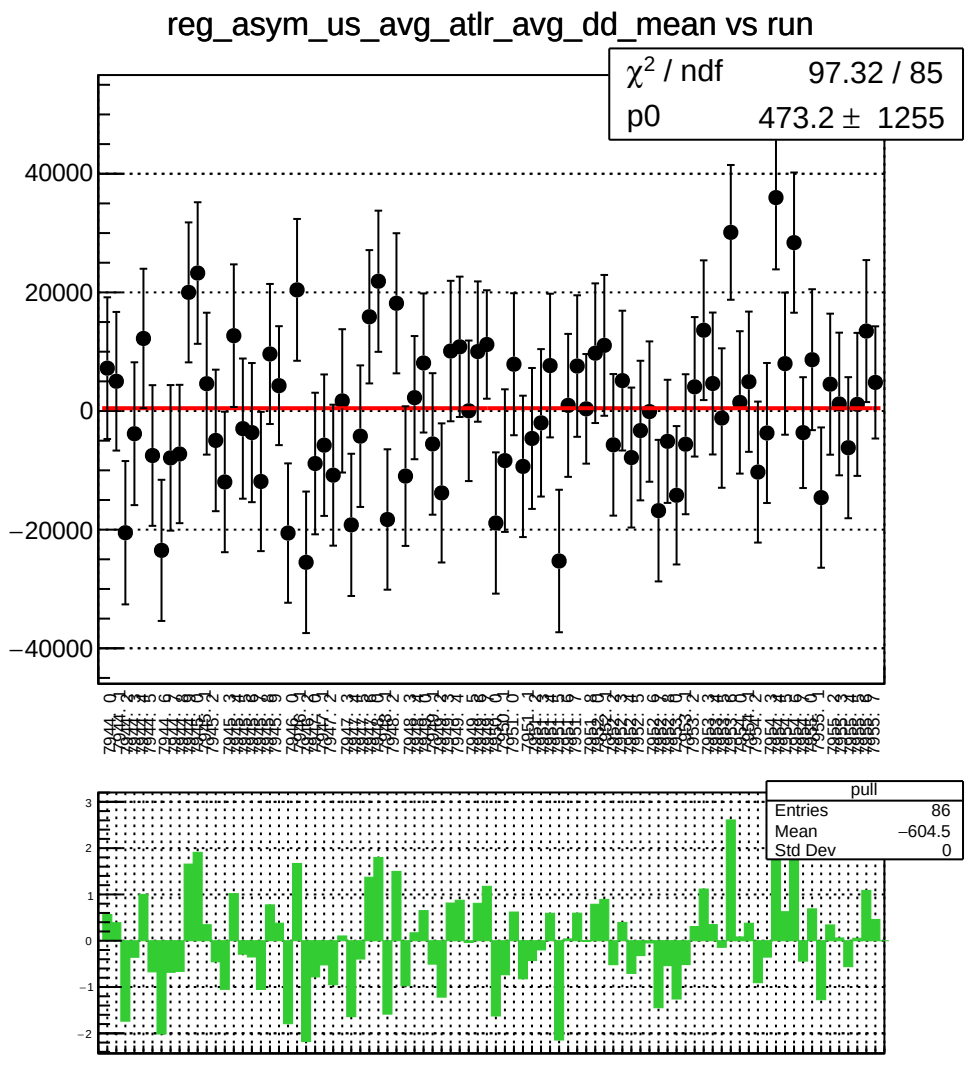

pull1D
Entries 86
Mean 0.007606
Std Dev 0.8737

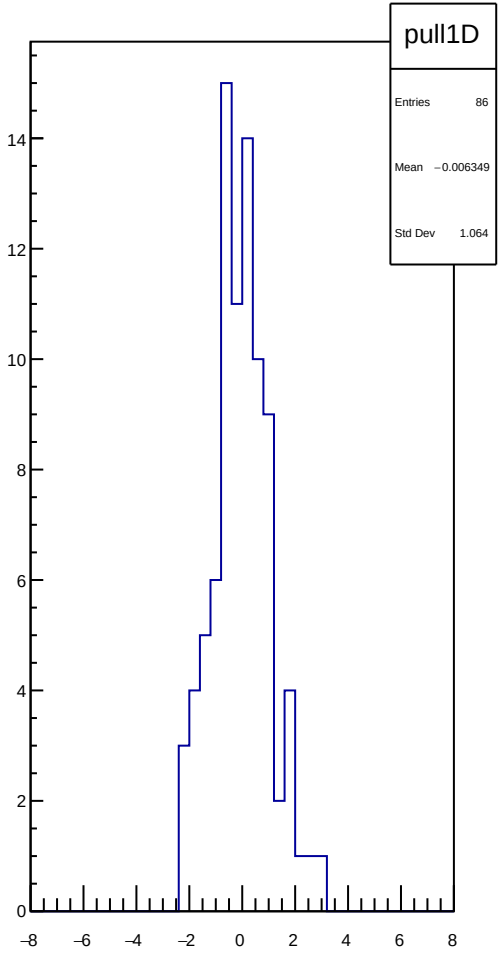

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.53e+04 / 85
p0 269.7 ± 0.2156
600
550
500
450
400
350
300
250
200

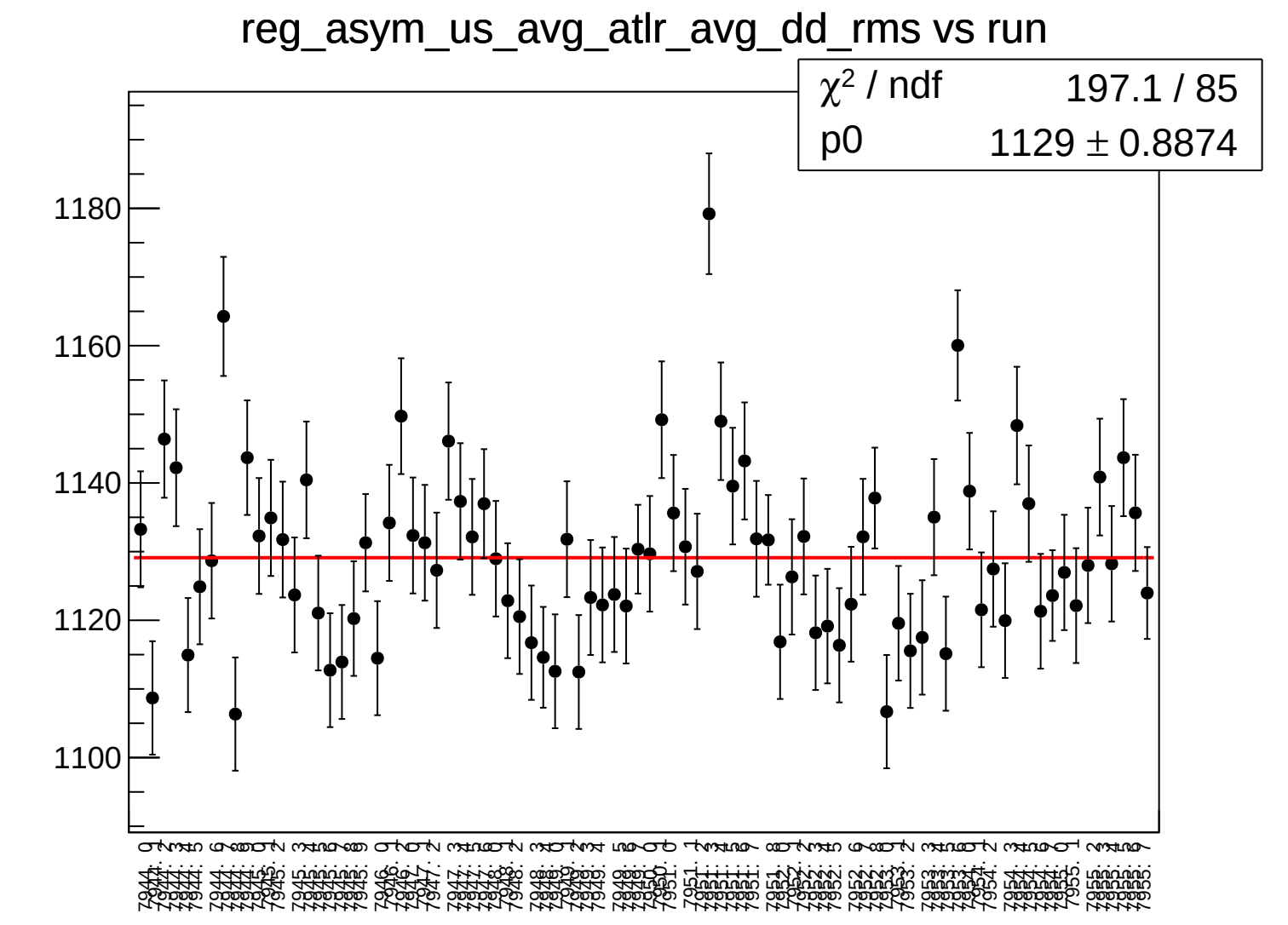

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.08 / 85
p0 8.355e−13 ± 5.051e−13
pull
Entries 86
Mean −19.59
Std Dev 0

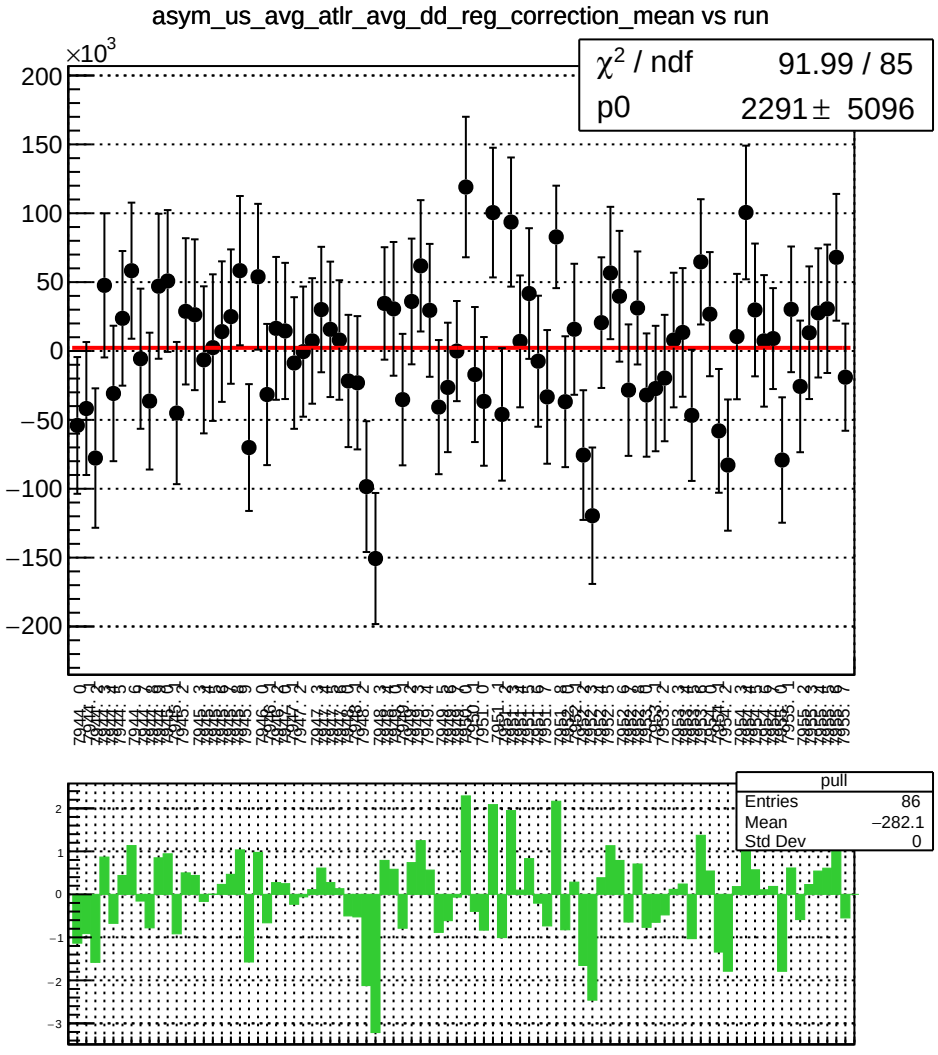

pull1D
Entries 86
Mean 0.02104
Std Dev 0.8425

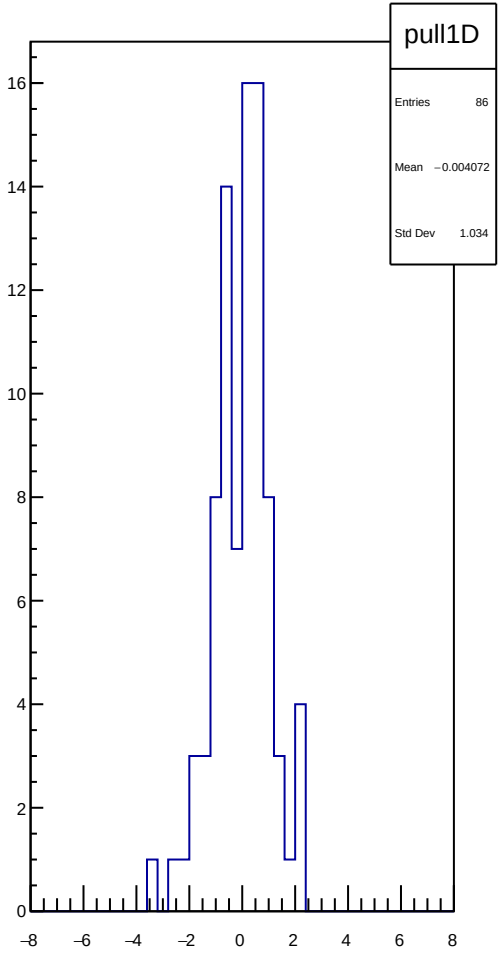

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.393e+05 / 85
p0 3.154e−10 ± 3.572e−13
3
2.5
2
1.5
1
0.5

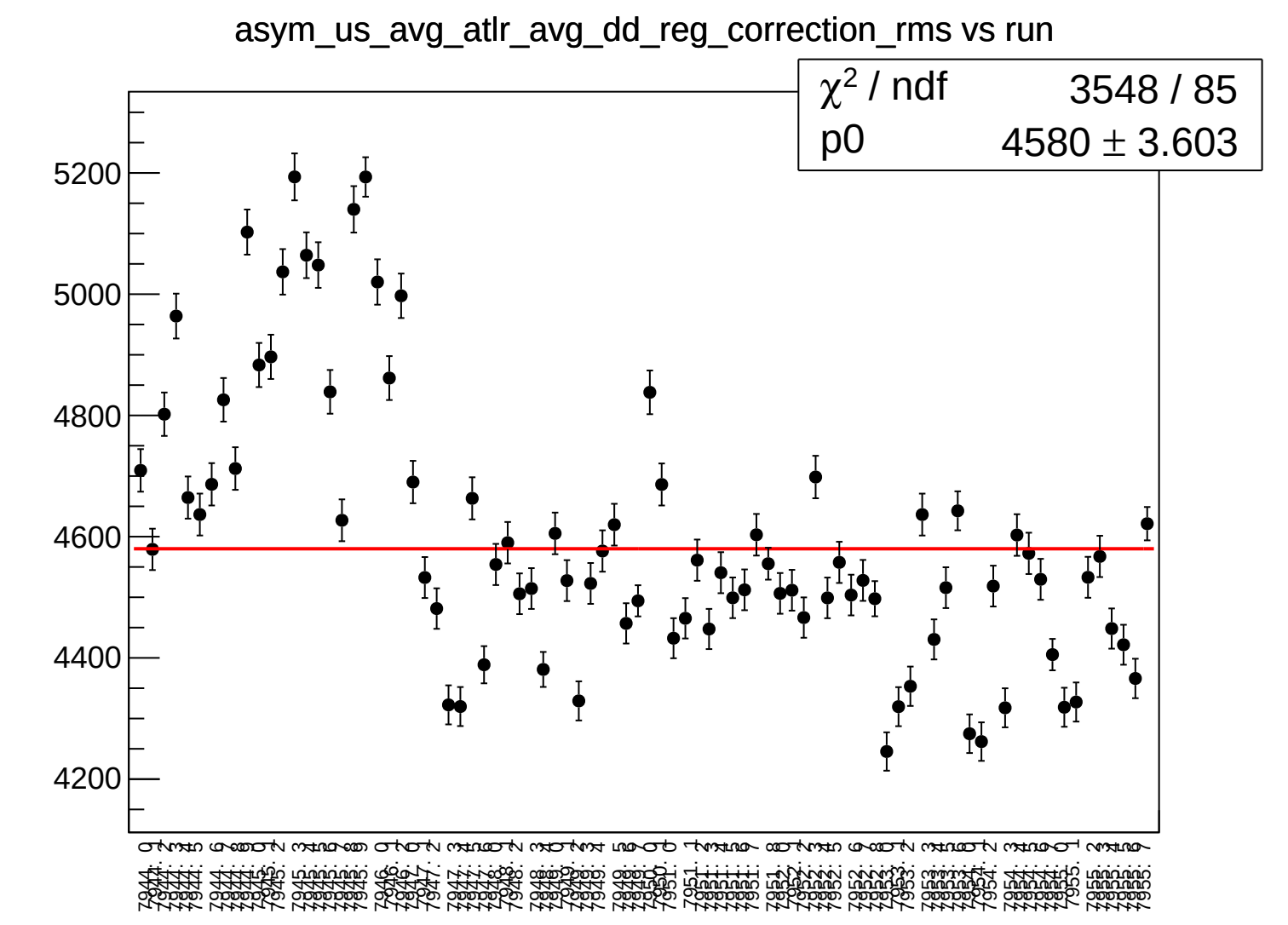

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 97.32 / 85
p0 473.2 ± 1255
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −604.5
Std Dev 0
3
2
1
0
−1
−2

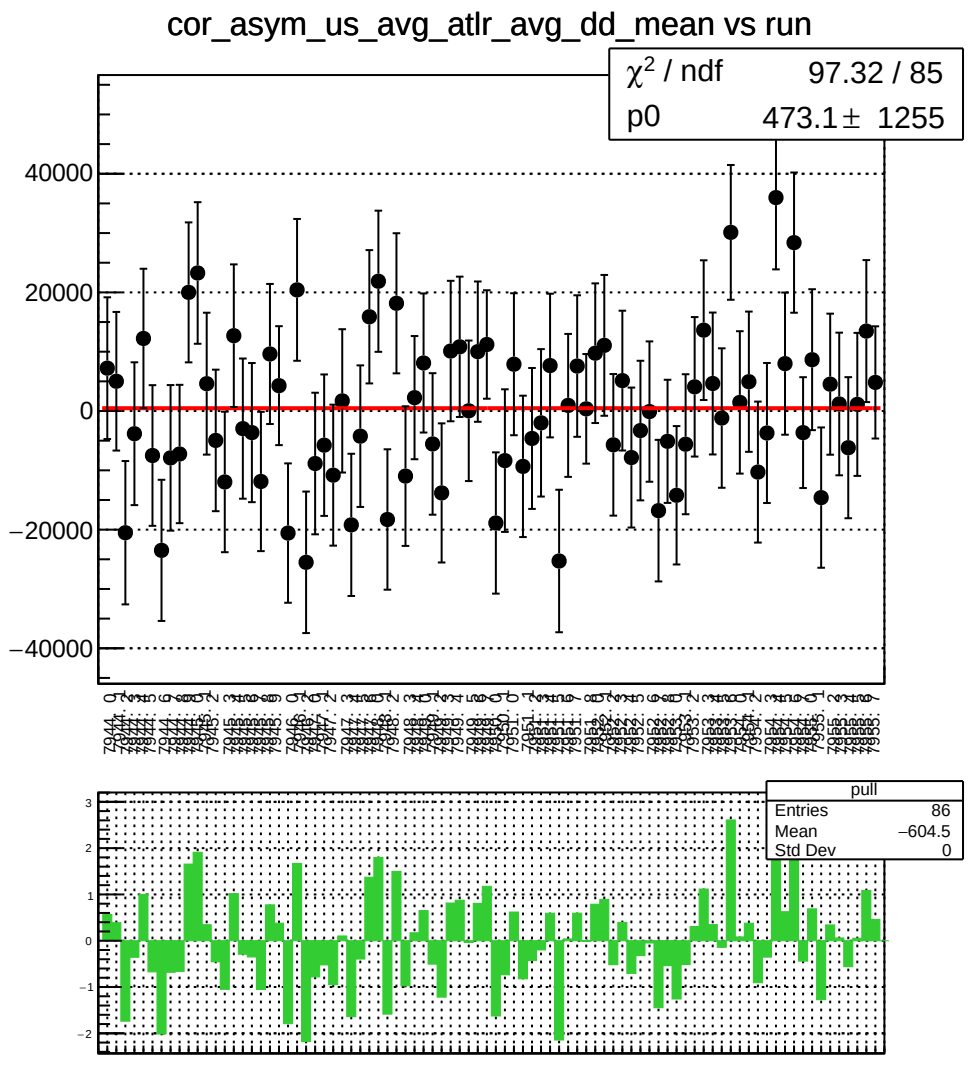

pull1D
Entries 86
Mean −0.006349
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

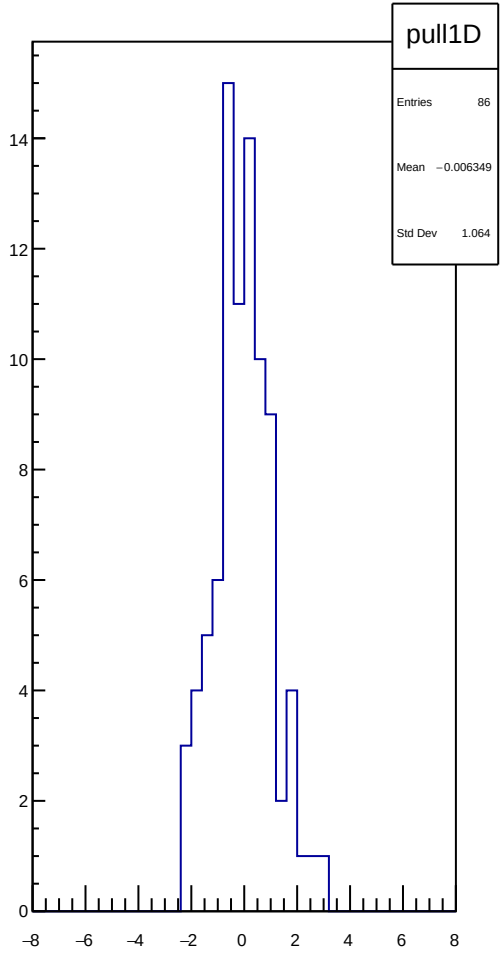

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 197.1 / 85
p0 1129 ± 0.8874
1180
1160
1140
1120
1100

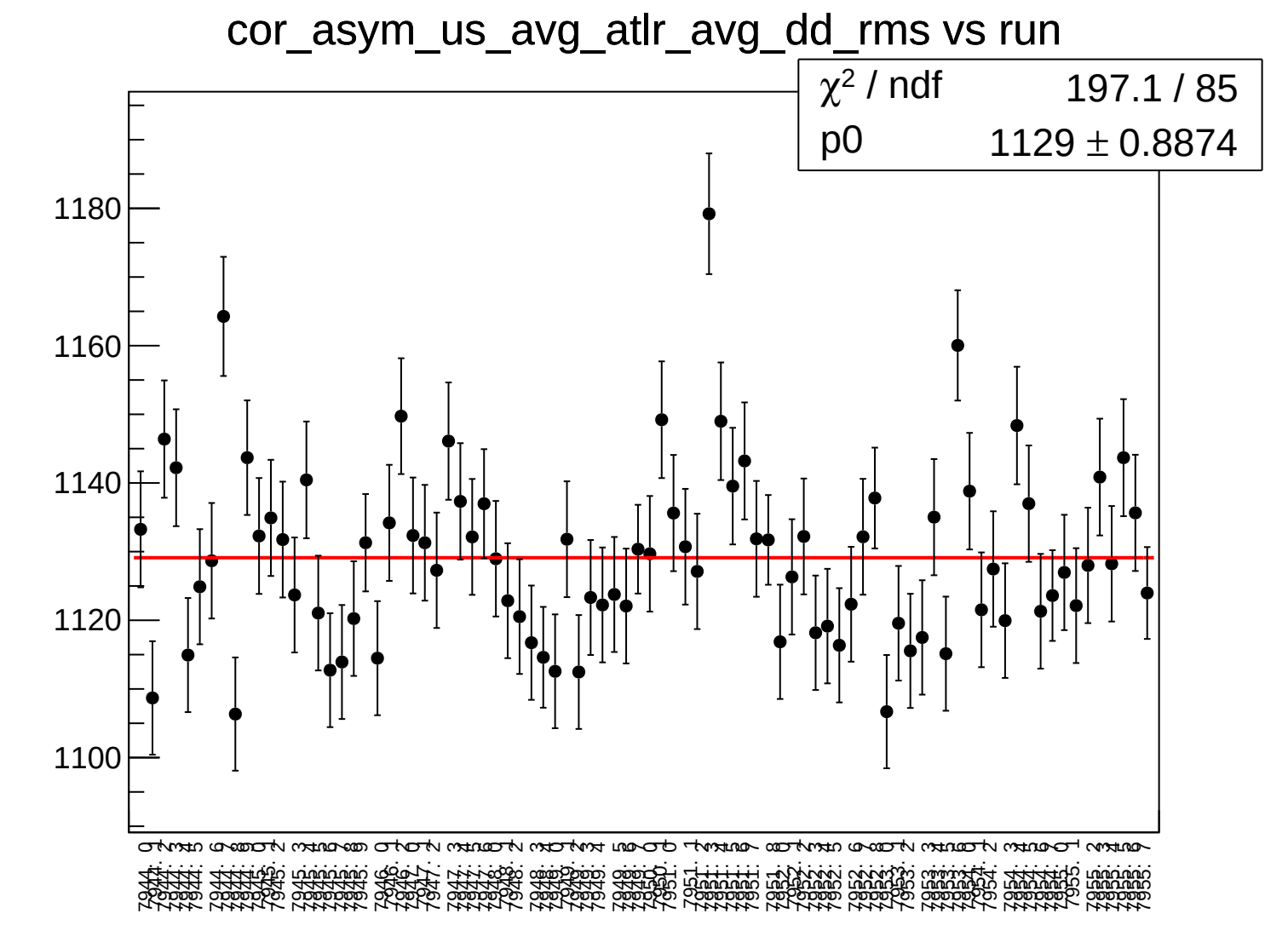

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 91.99 / 85
p0 2291 ± 5096
pull
Entries 86
Mean −282.1
Std Dev 0

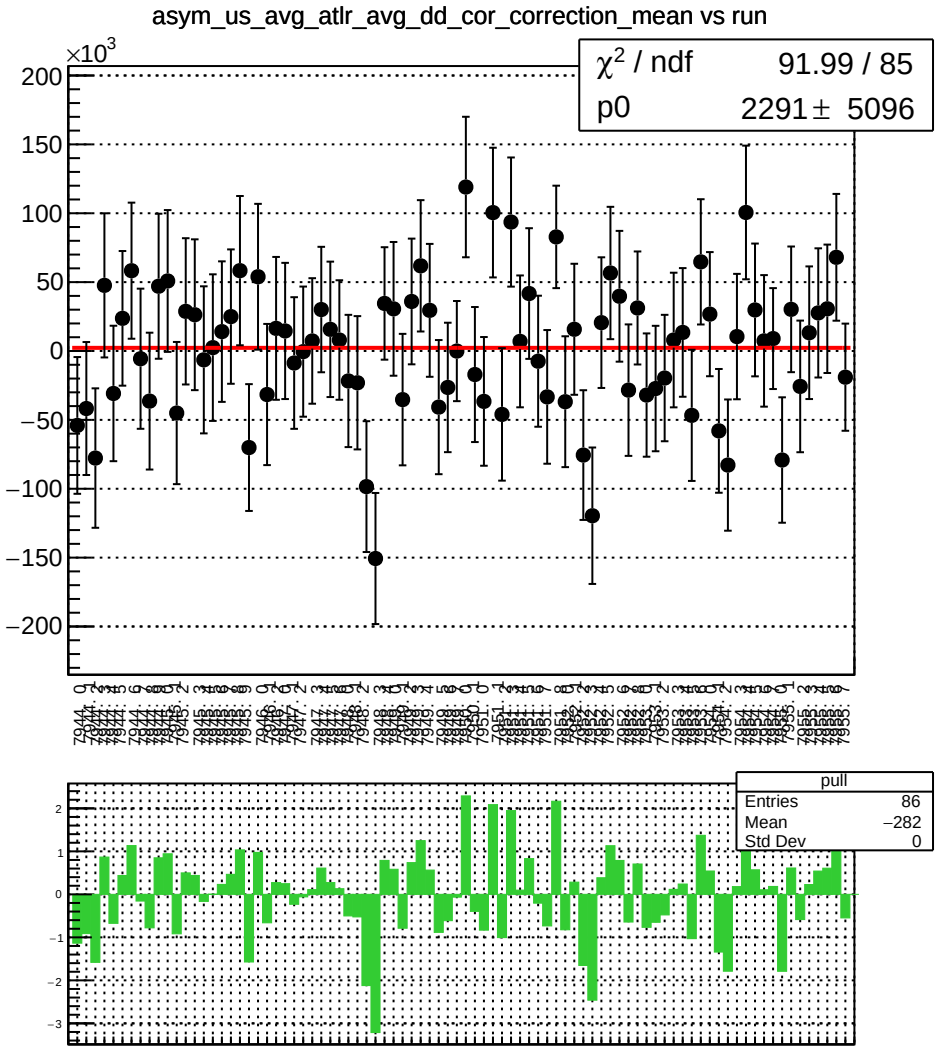

pull1D
Entries 86
Mean −0.004072
Std Dev 1.034

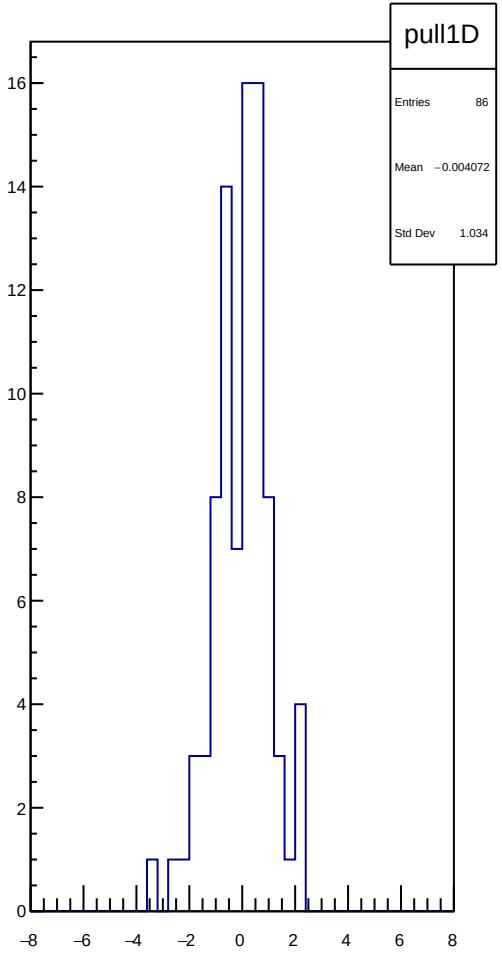

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 3548 / 85
p0 4580 ± 3.603
5200
5000
4800
4600
4400
4200

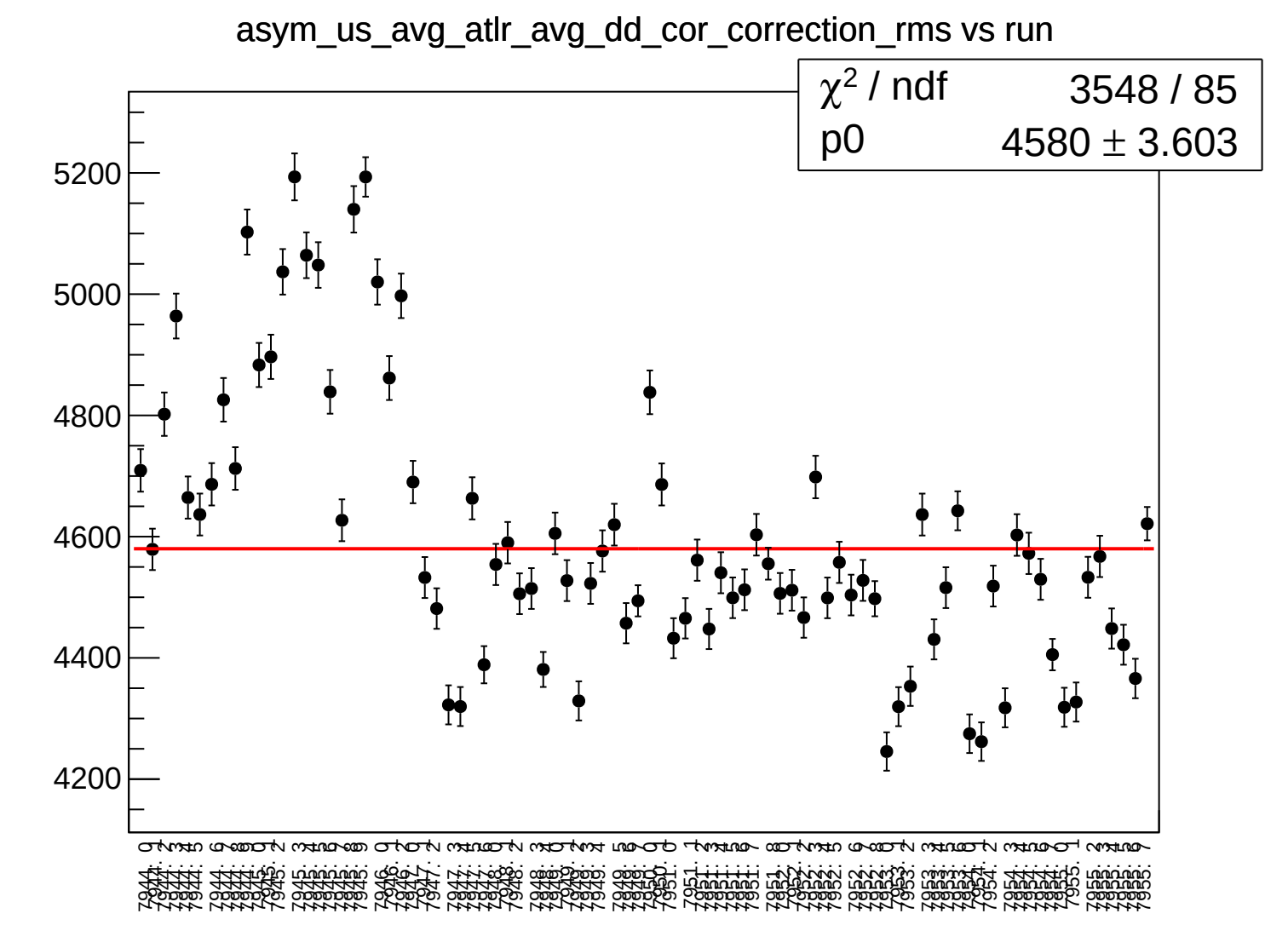

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 97.32 / 85
p0 473.1 ± 1255
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −604.5
Std Dev 0
3
2
1
0
−1
−2

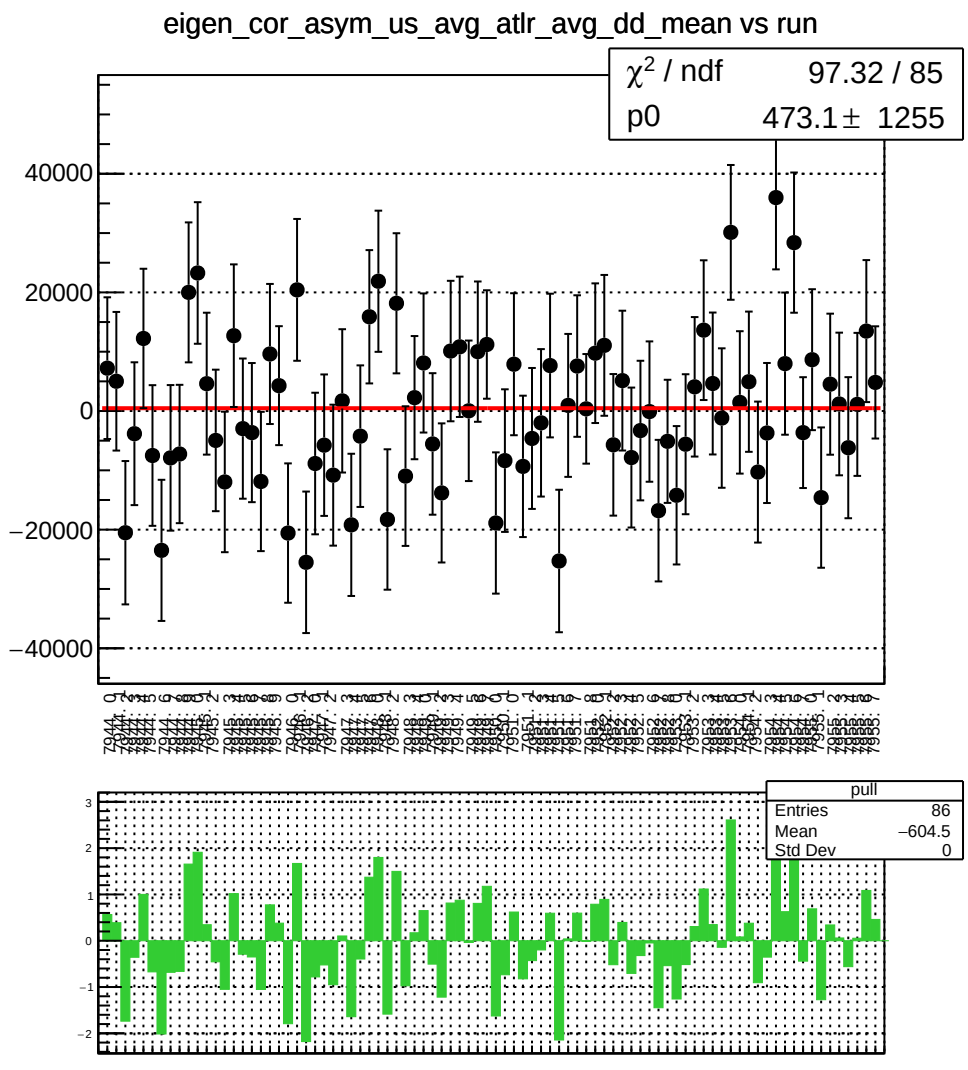

pull1D
Entries 86
Mean −0.006349
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

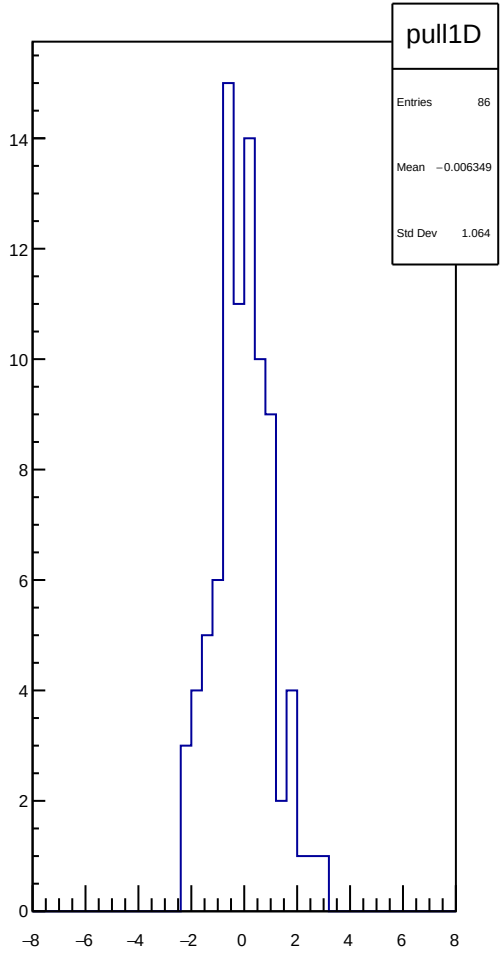

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 197.1 / 85
p0 1129 ± 0.8874
1180
1160
1140
1120
1100

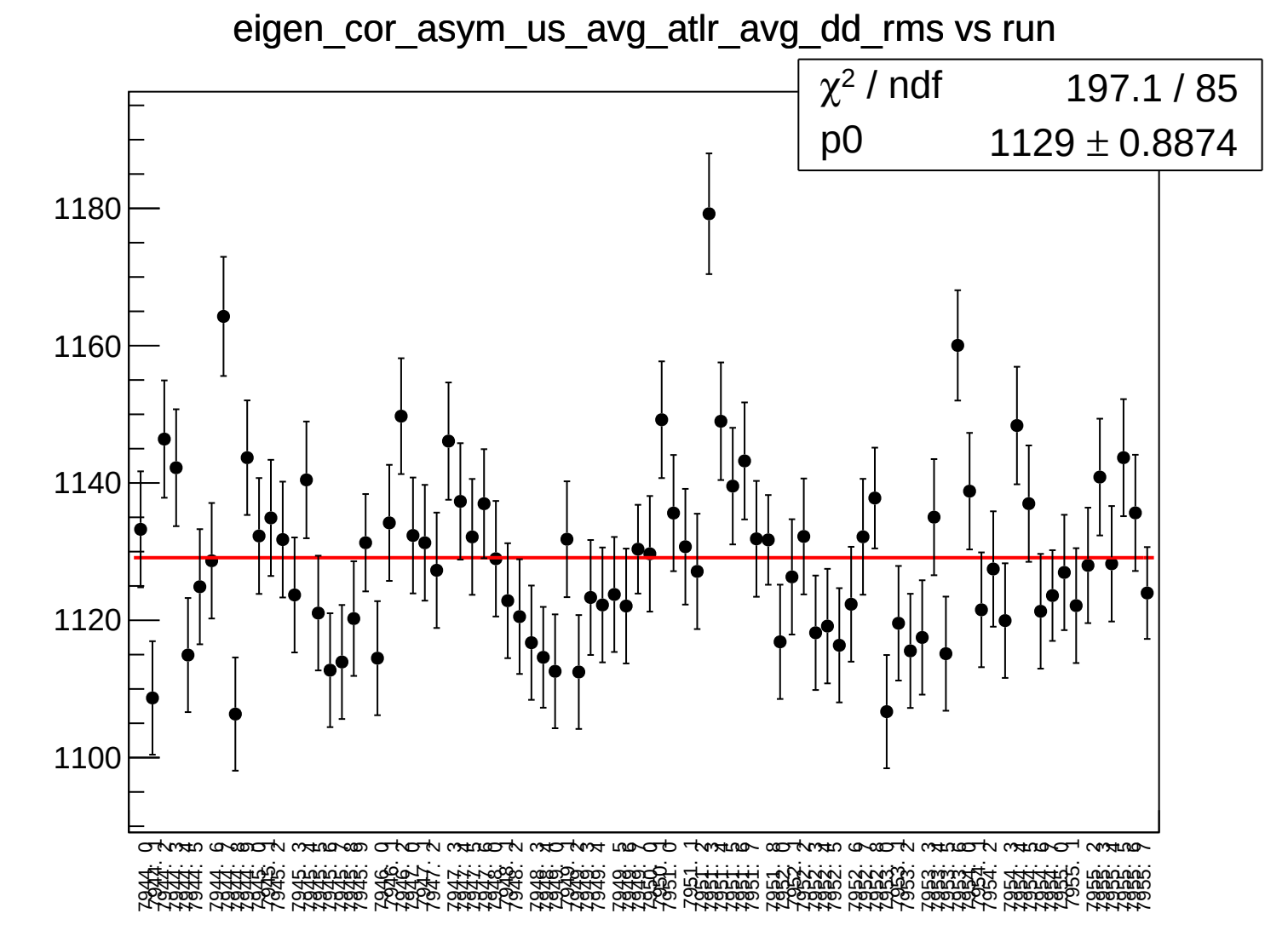

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
χ² / ndf 91.99 / 85
p0 2291 ± 5096
pull
Entries 86
Mean −282
Std Dev 0

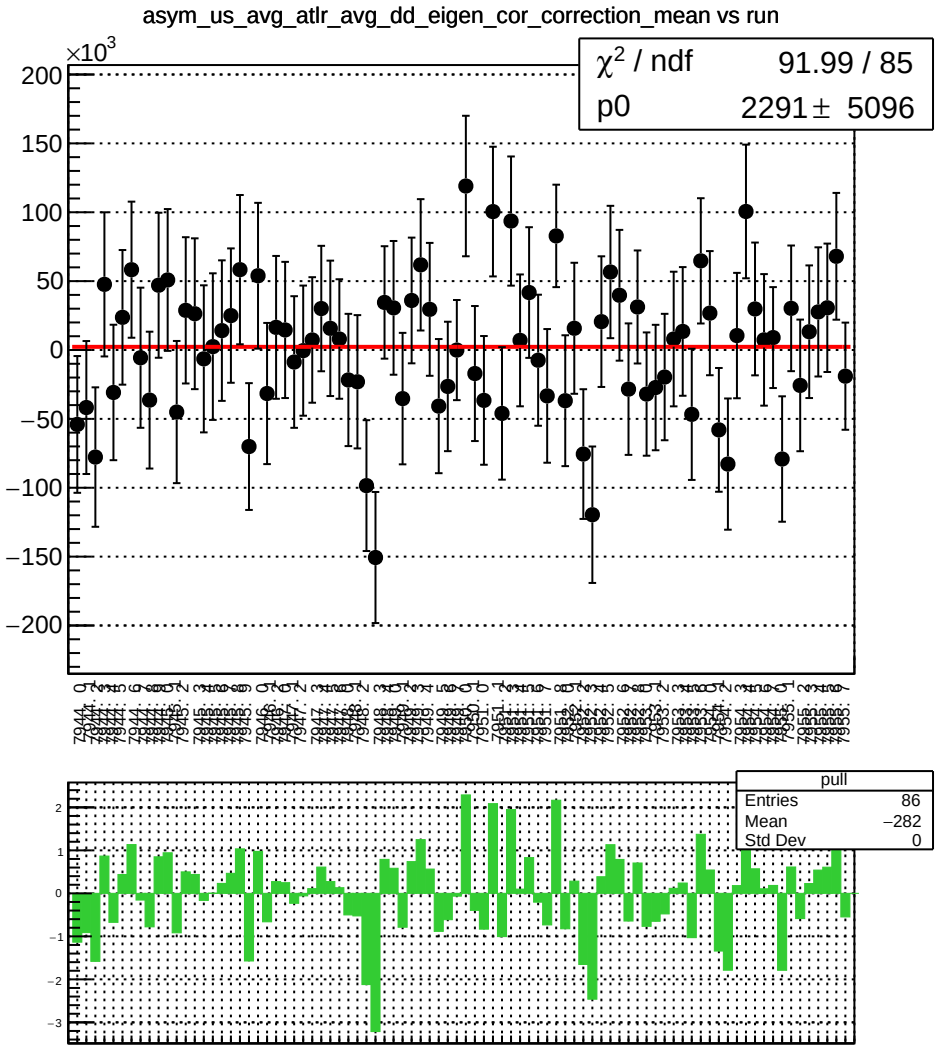

pull1D
Entries 86
Mean −0.004072
Std Dev 1.034

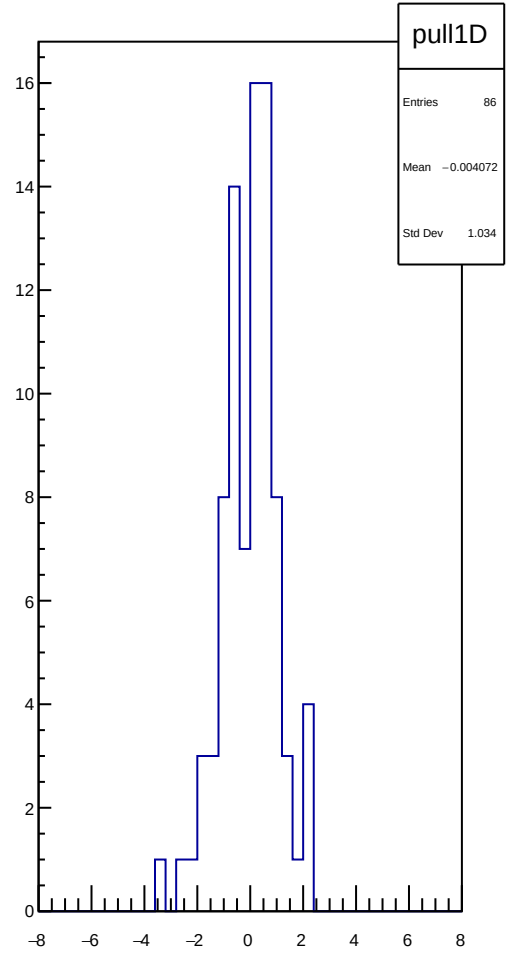

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 3548 / 85
p0 4580 ± 3.603
5200
5000
4800
4600
4400
4200

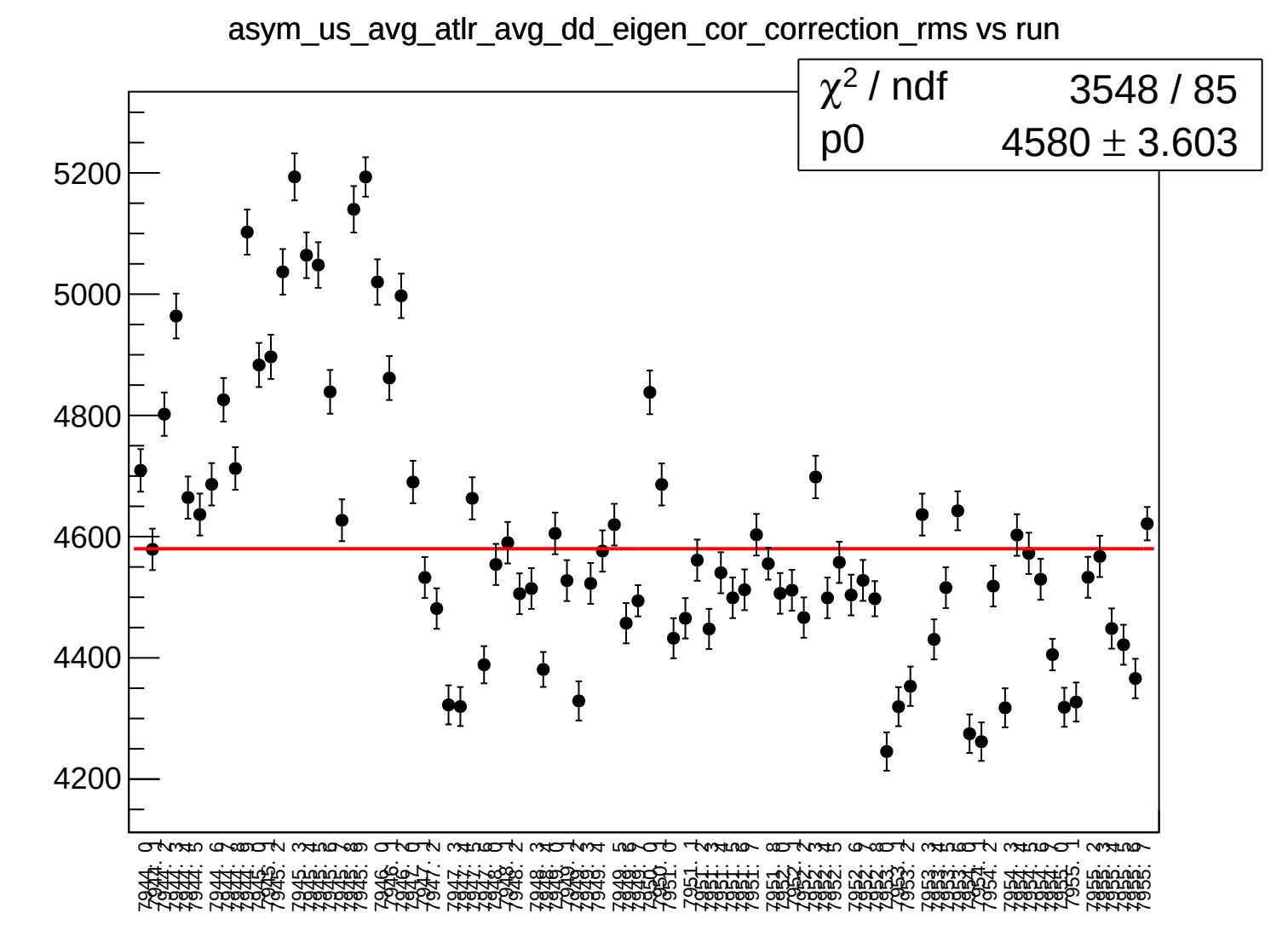

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 97.32 / 85
p0 473.1 ± 1255
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −604.5
Std Dev 0
3
2
1
0
−1
−2

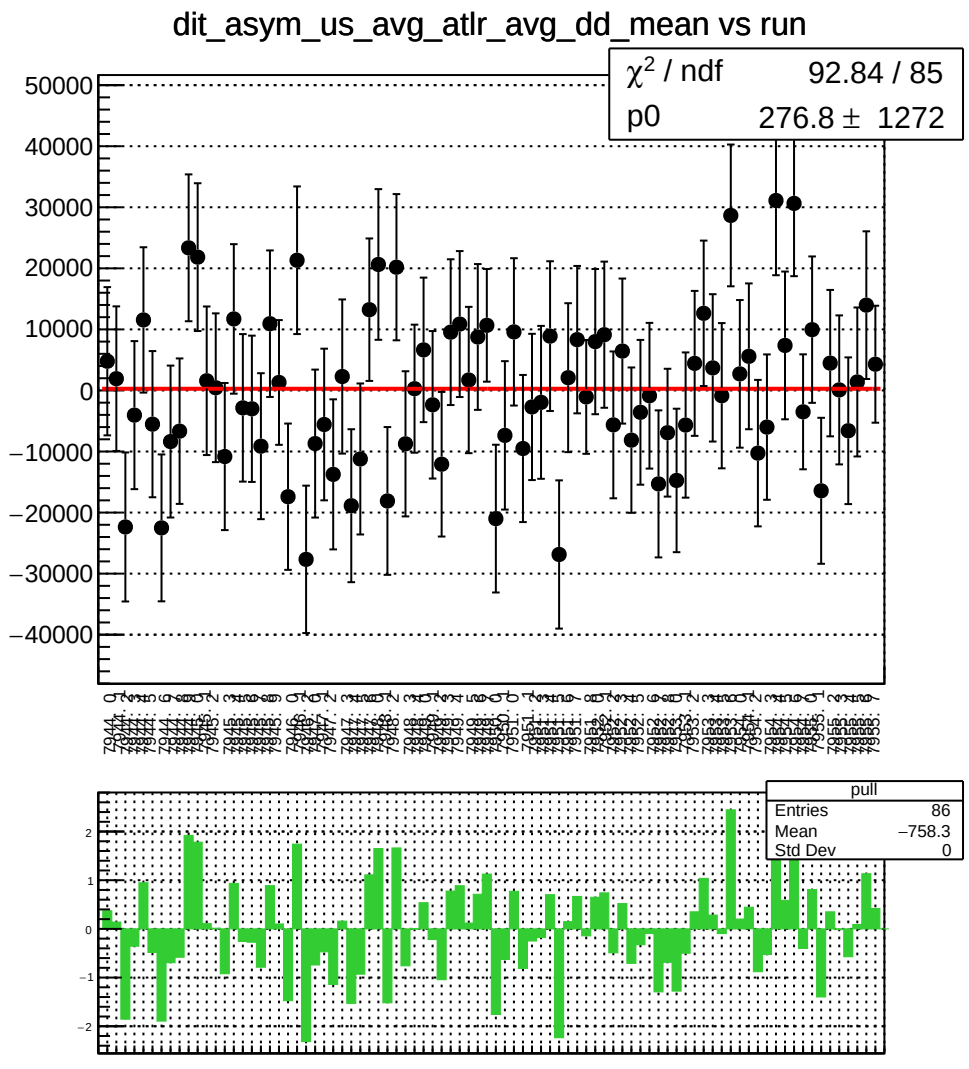

pull1D
Entries 86
Mean −0.006349
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

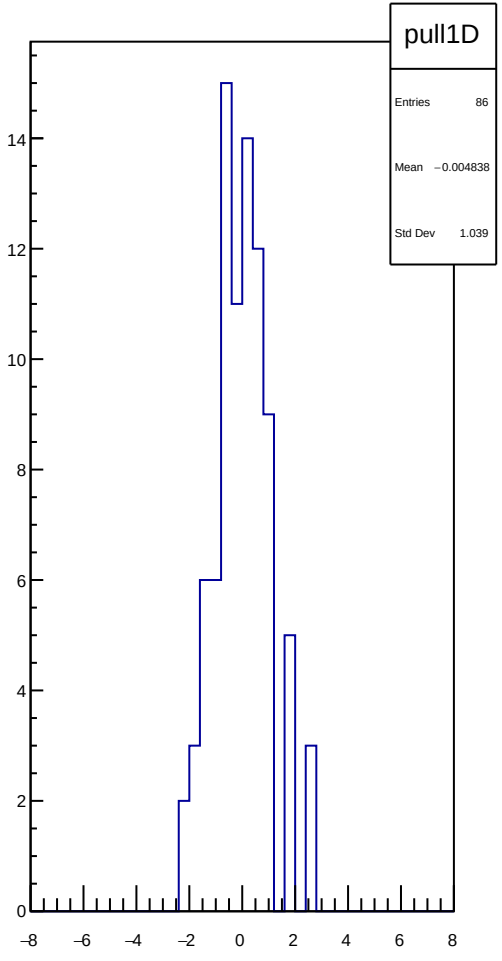

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 197.1 / 85
p0 1129 ± 0.8874
1180
1160
1140
1120
1100

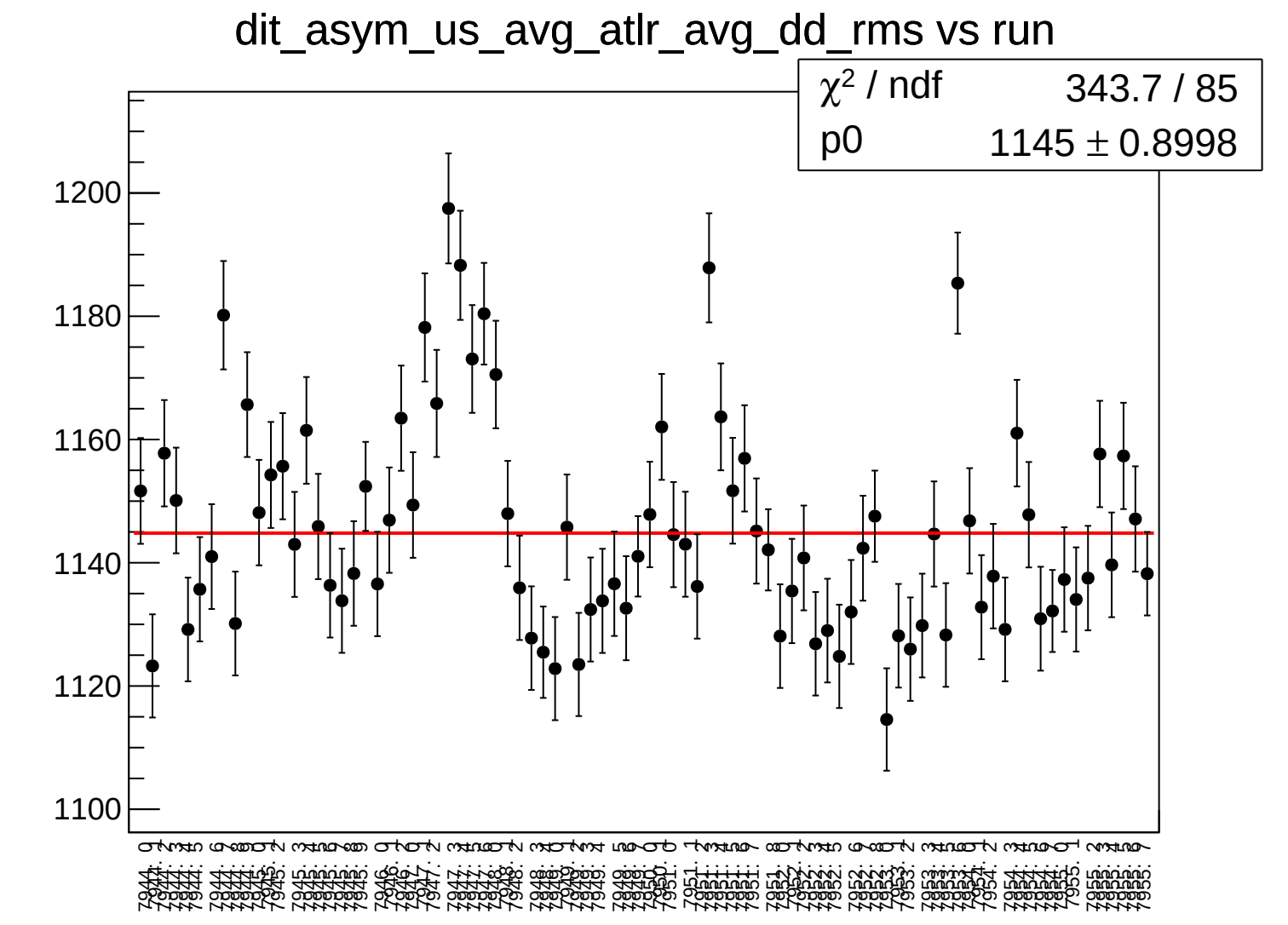

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.99 / 85
p0 2291 ± 5096
pull
Entries 86
Mean −282
Std Dev 0

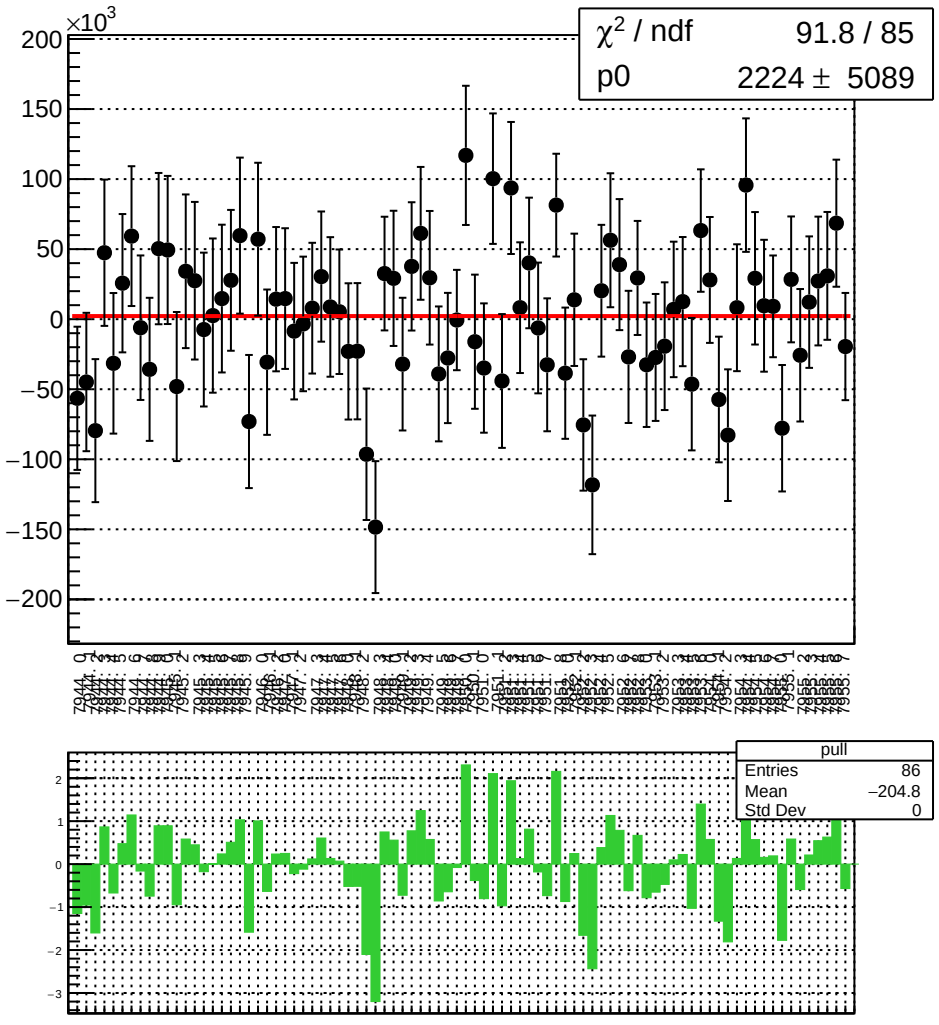

pull1D
Entries 86
Mean −0.004072
Std Dev 1.034

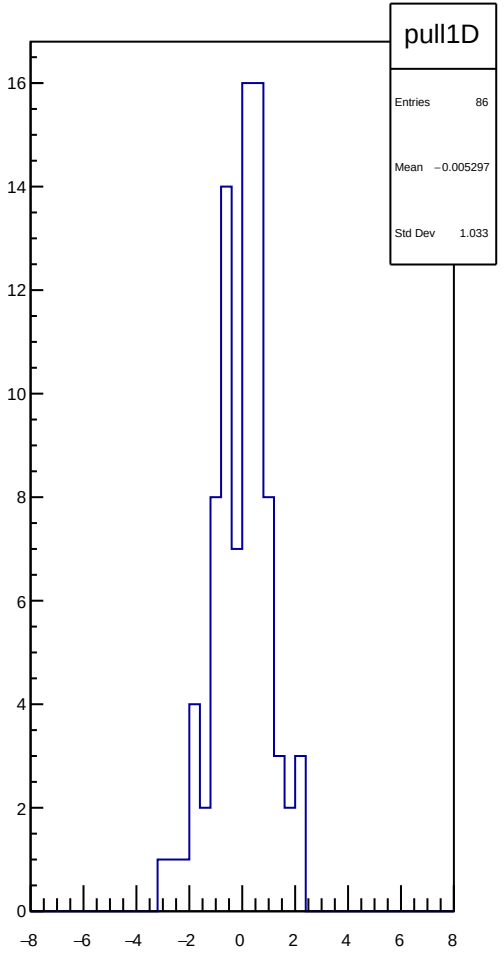

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3548 / 85
p0 4580 ± 3.603
5200
5000
4800
4600
4400
4200

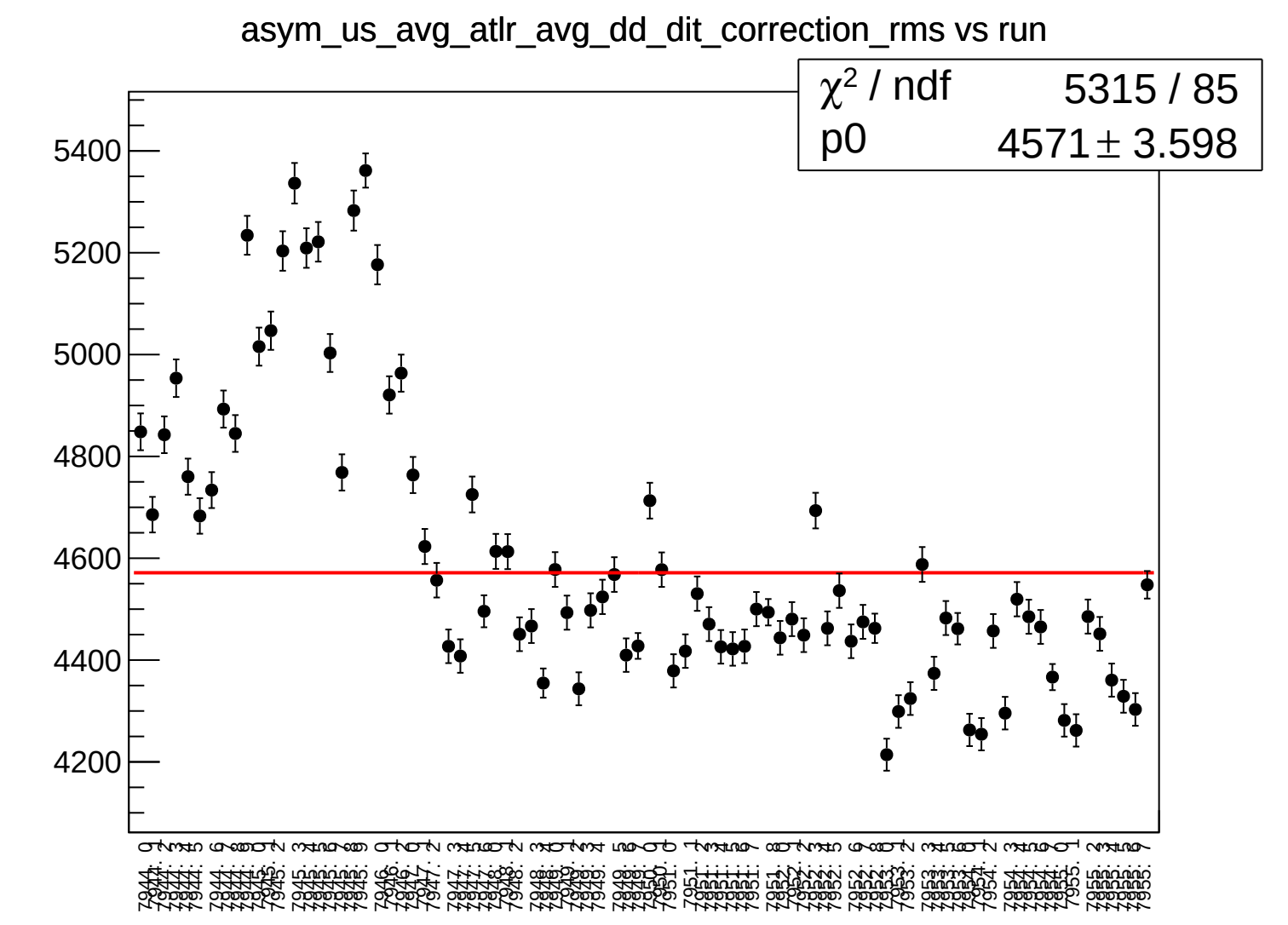

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 92.84 / 85
p0 276.8 ± 1272
pull
Entries 86
Mean −758.3
Std Dev 0

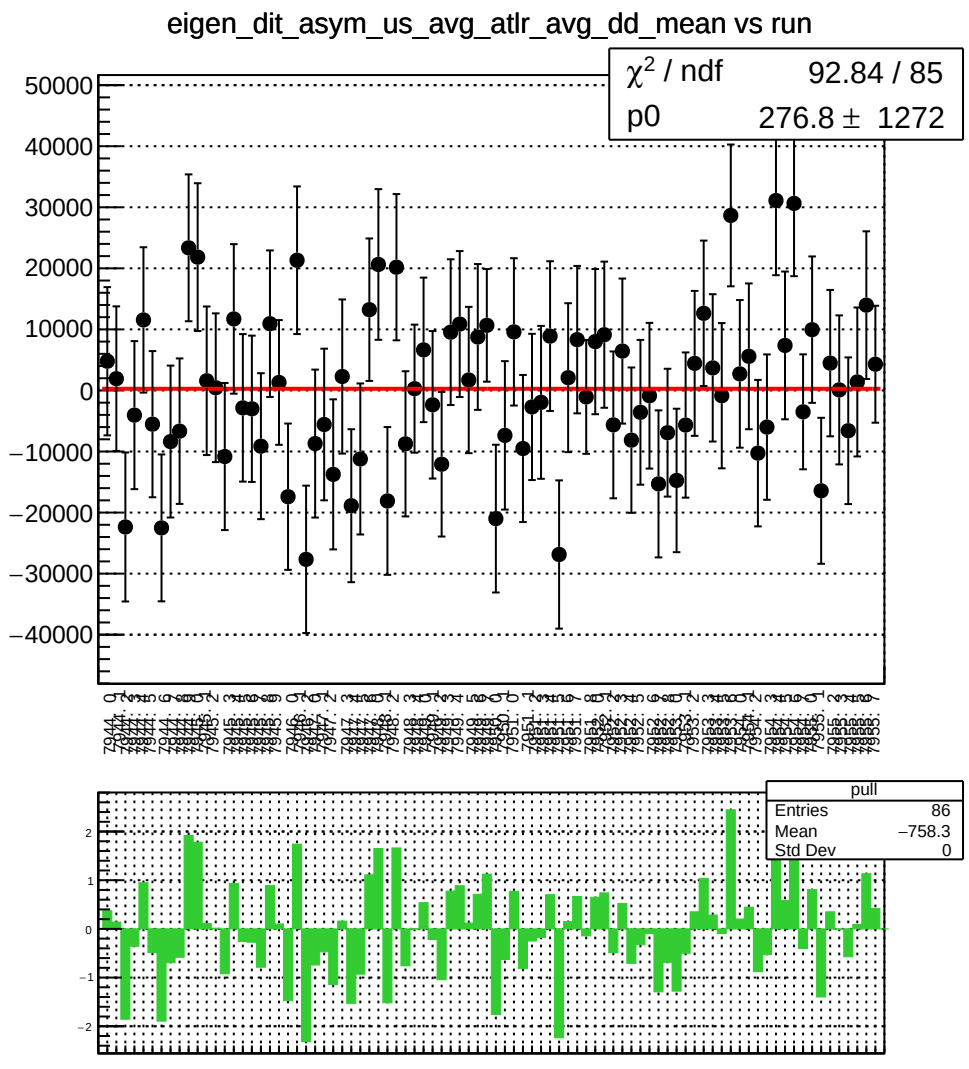

pull1D
Entries 86
Mean −0.004838
Std Dev 1.039

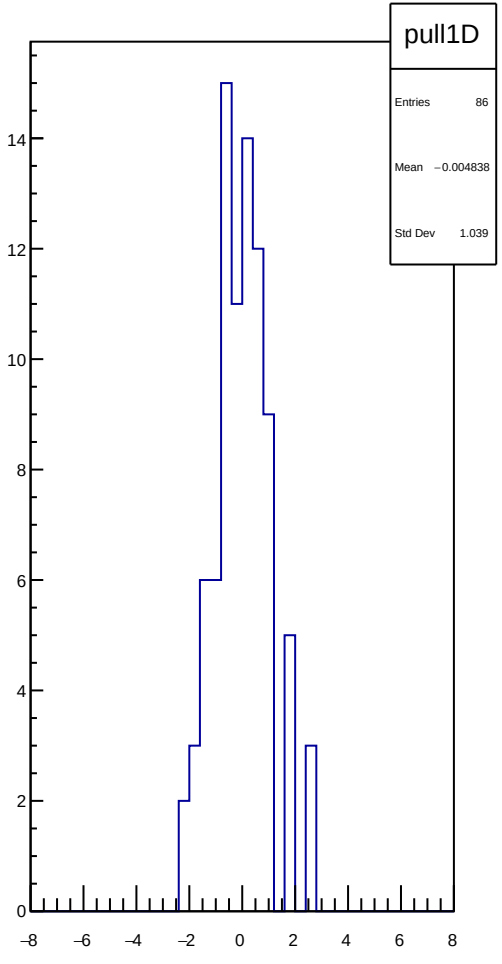

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 343.7 / 85
p0 1145 ± 0.8998
1200
1180
1160
1140
1120
1100

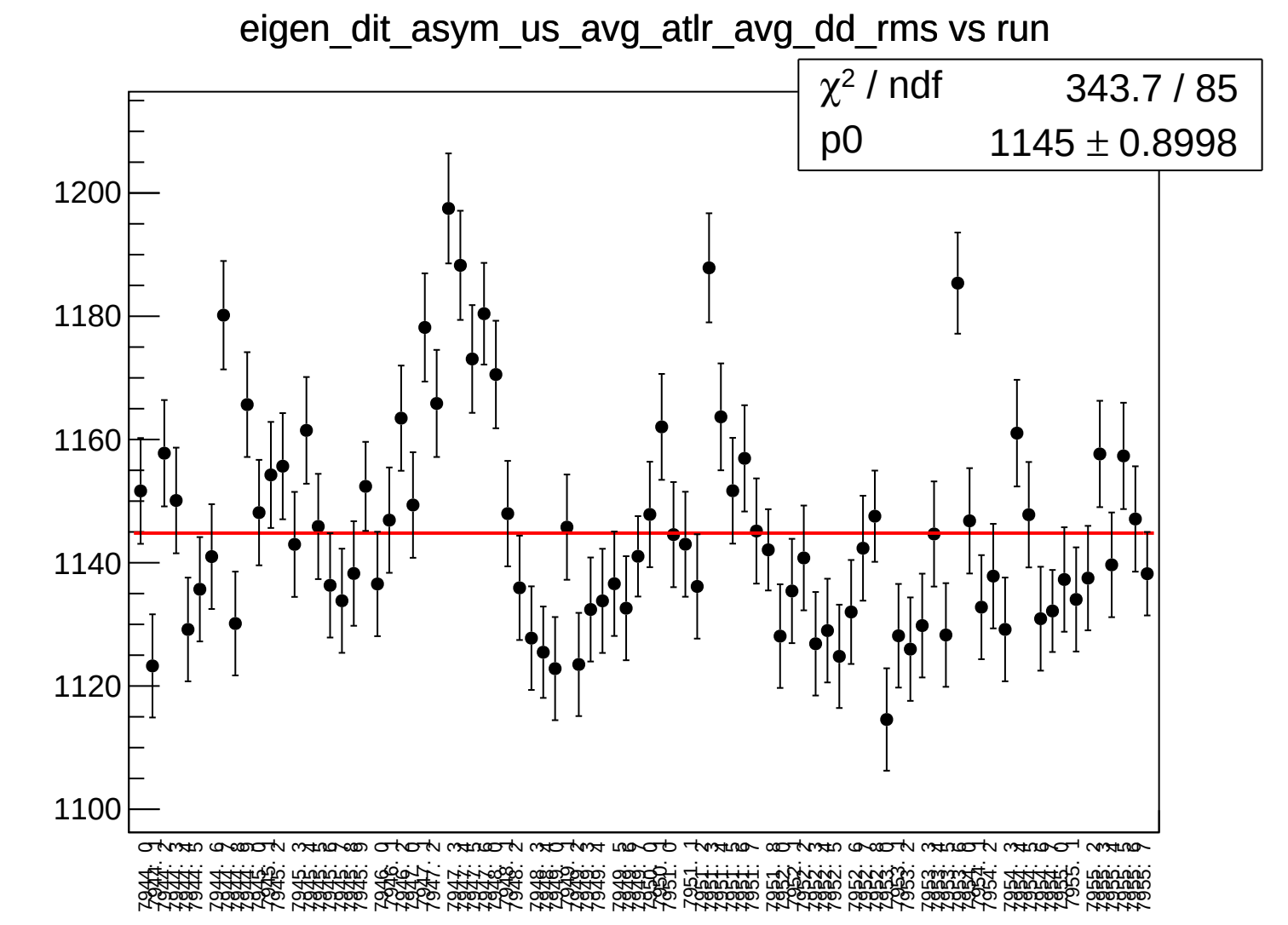

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 91.8 / 85
p0 2224 ± 5089
pull
Entries 86
Mean −204.8
Std Dev 0

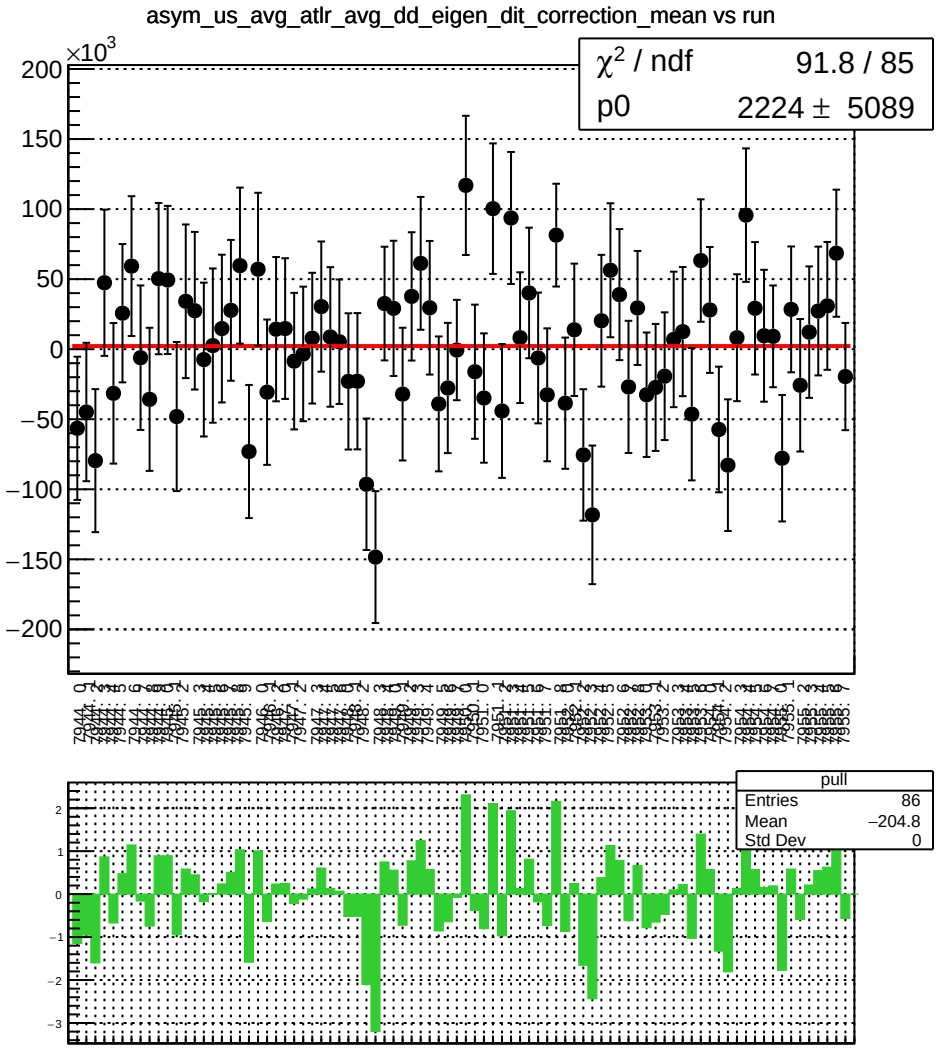

pull1D
Entries 86
Mean −0.005297
Std Dev 1.033

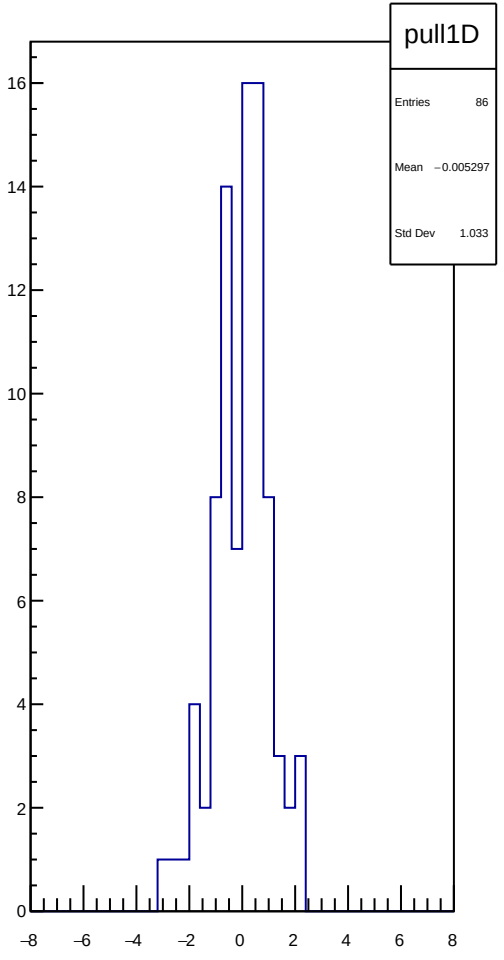

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 5315 / 85
p0 4571 ± 3.598
5400
5200
5000
4800
4600
4400
4200

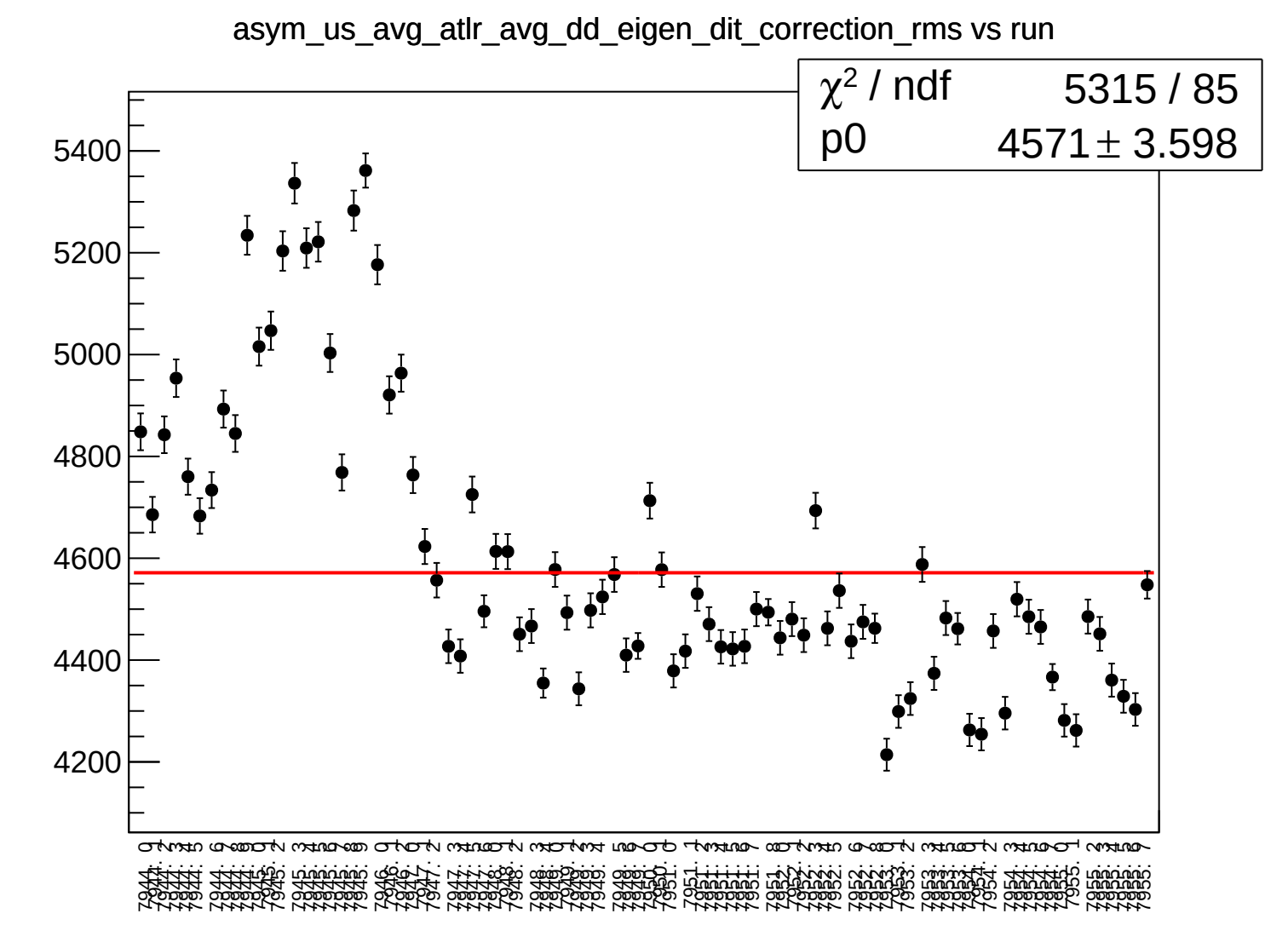

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 92.84 / 85
p0 276.8 ± 1272
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −758.3
Std Dev 0
2
1
0
−1
−2

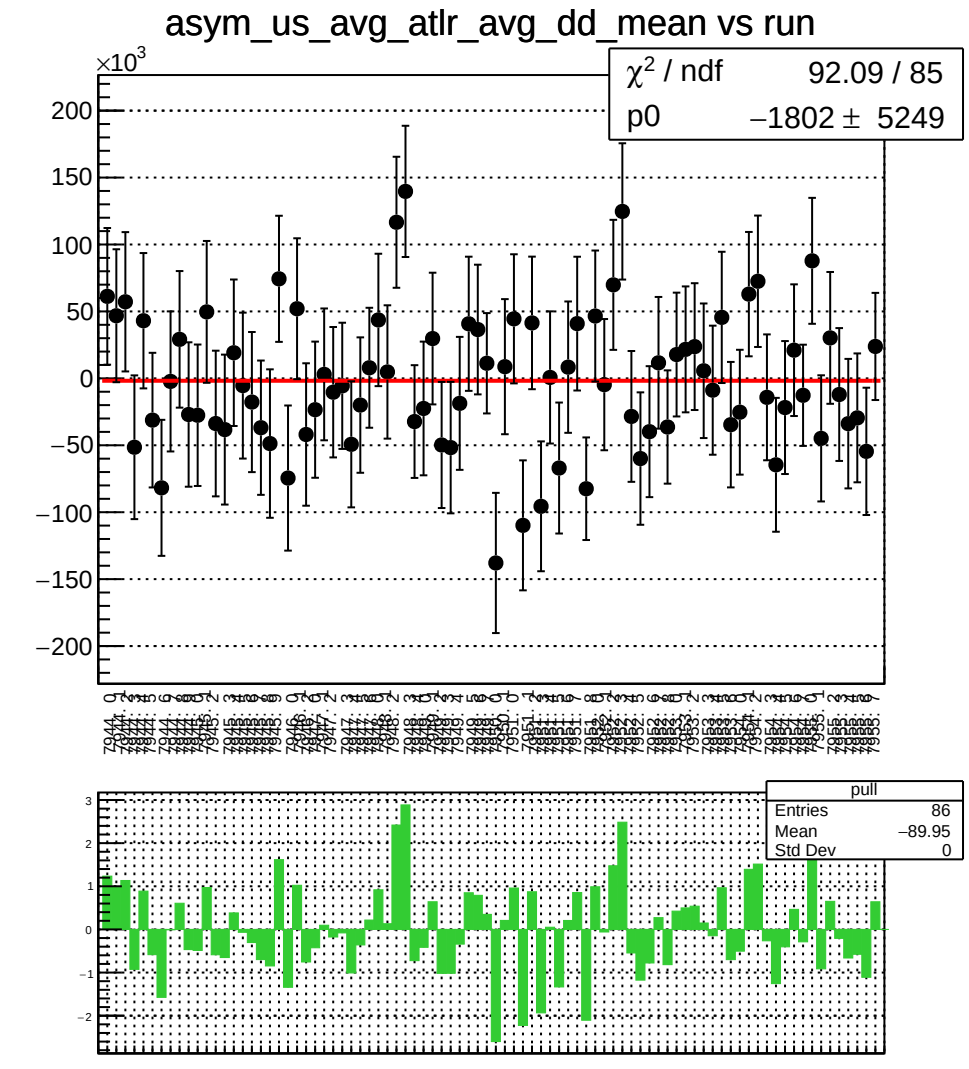

pull1D
Entries 86
Mean −0.004838
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

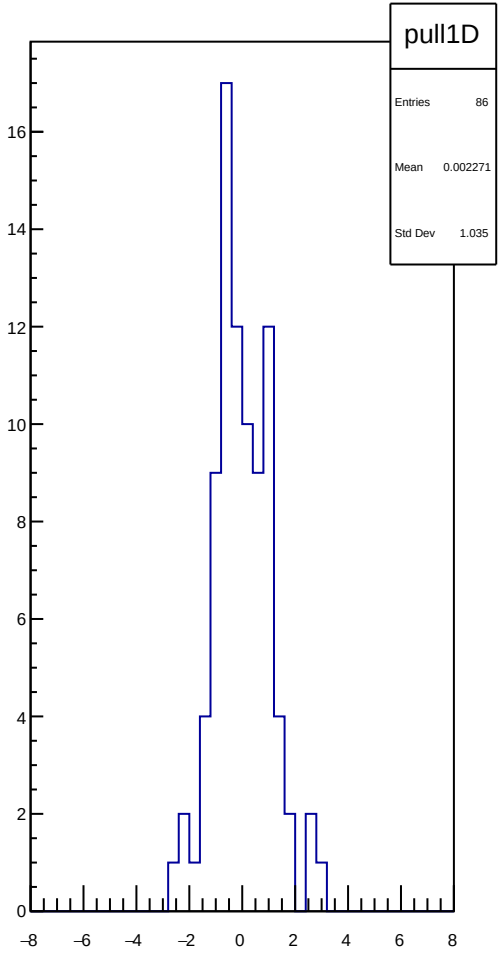

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 343.7 / 85
p0 1145 ± 0.8998
1200
1180
1160
1140
1120
1100

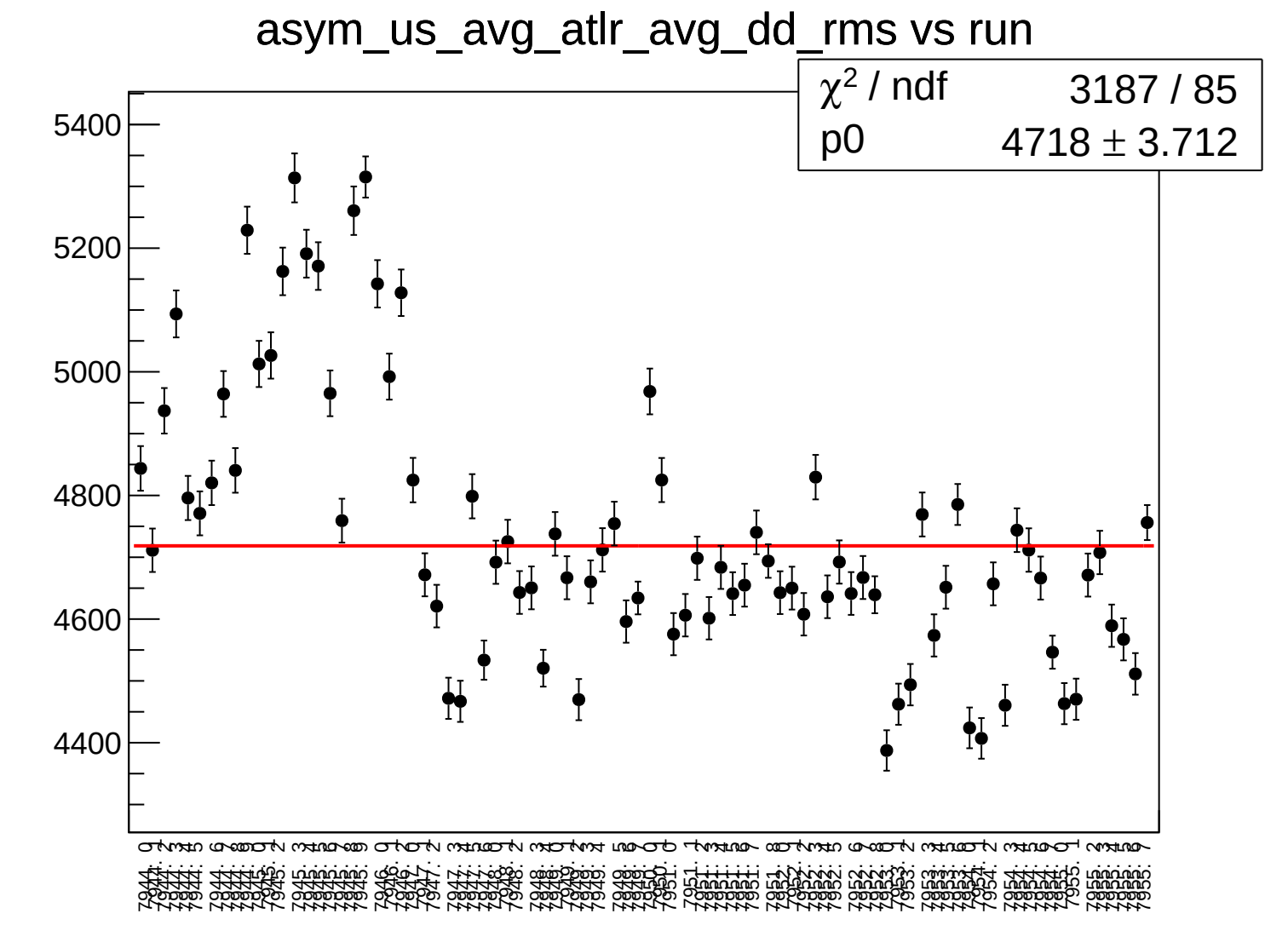

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.8 / 85
p0 2224 ± 5089
pull
Entries 86
Mean −204.8
Std Dev 0

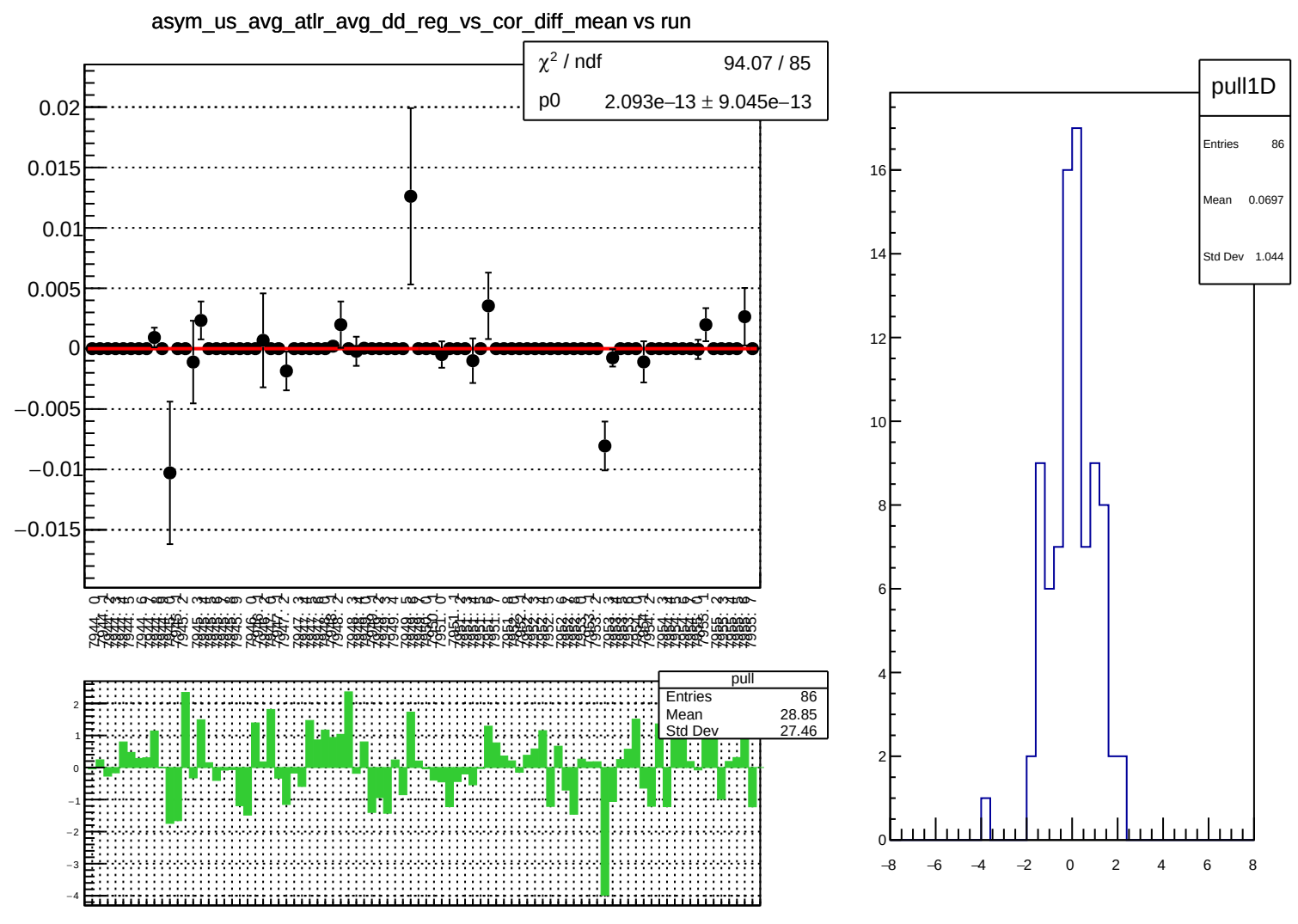

pull1D
Entries 86
Mean −0.005297
Std Dev 1.033

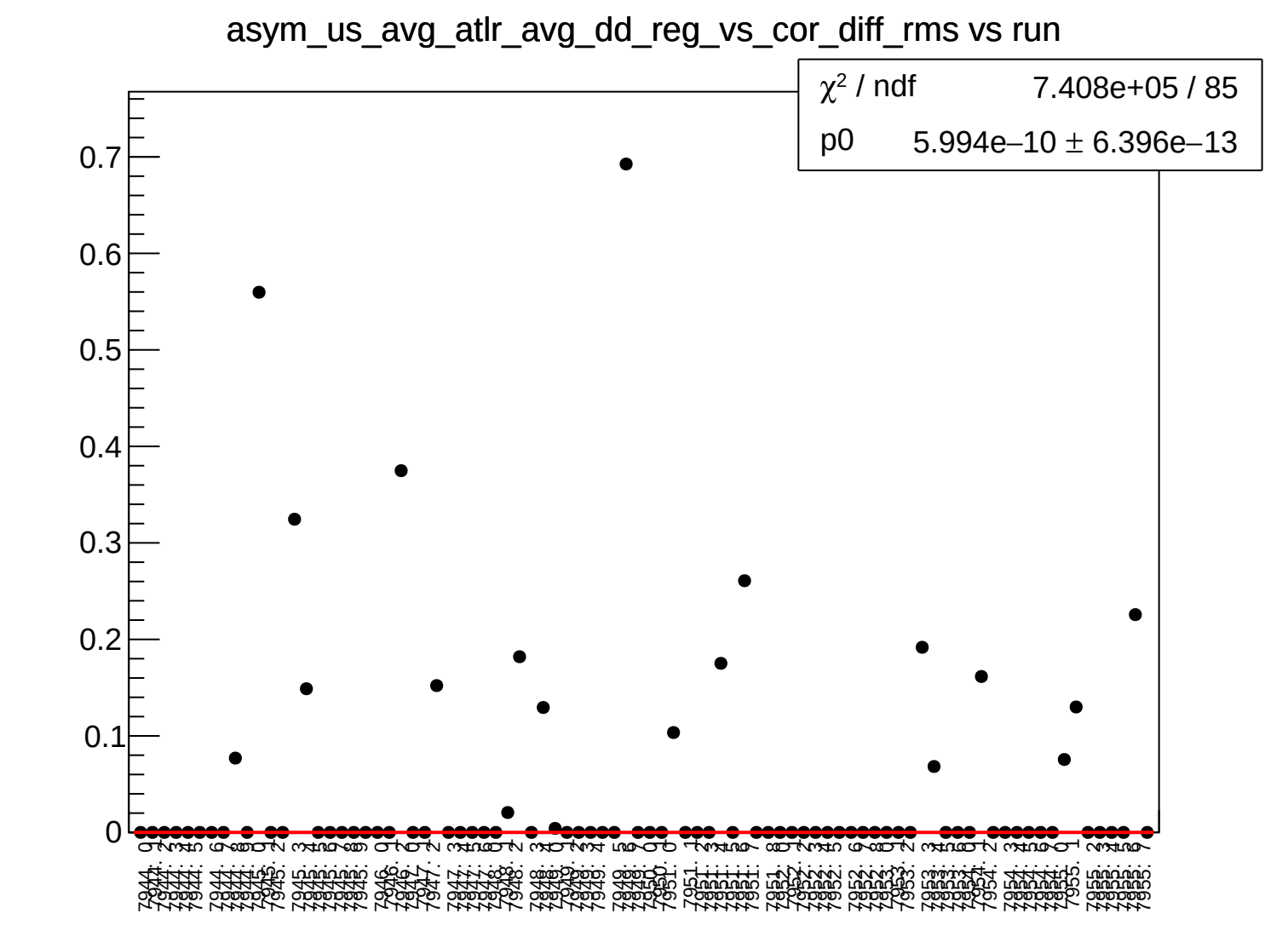

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5315 / 85
p0 4571 ± 3.598
5400
5200
5000
4800
4600
4400
4200

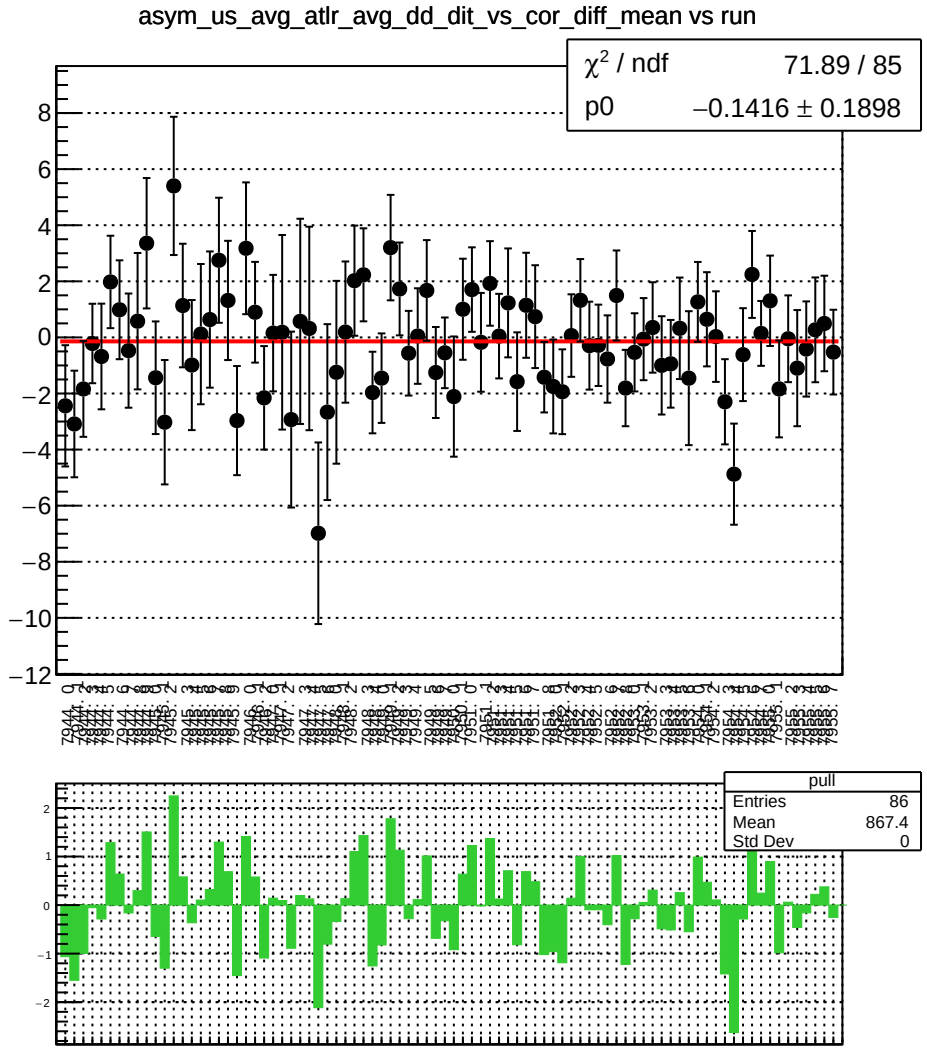

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 92.09 / 85
p0 −1802 ± 5249
pull
Entries 86
Mean −89.95
Std Dev 0

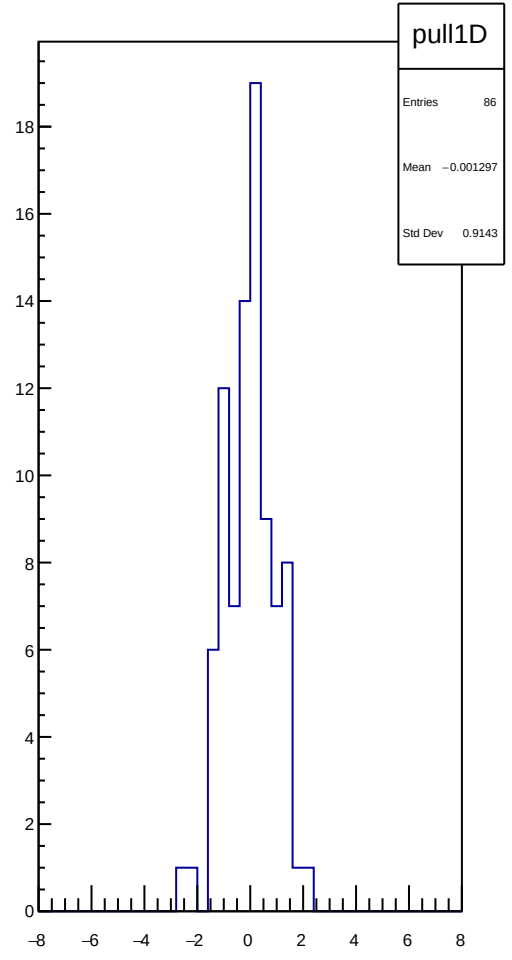

pull1D
Entries 86
Mean 0.002271
Std Dev 1.035

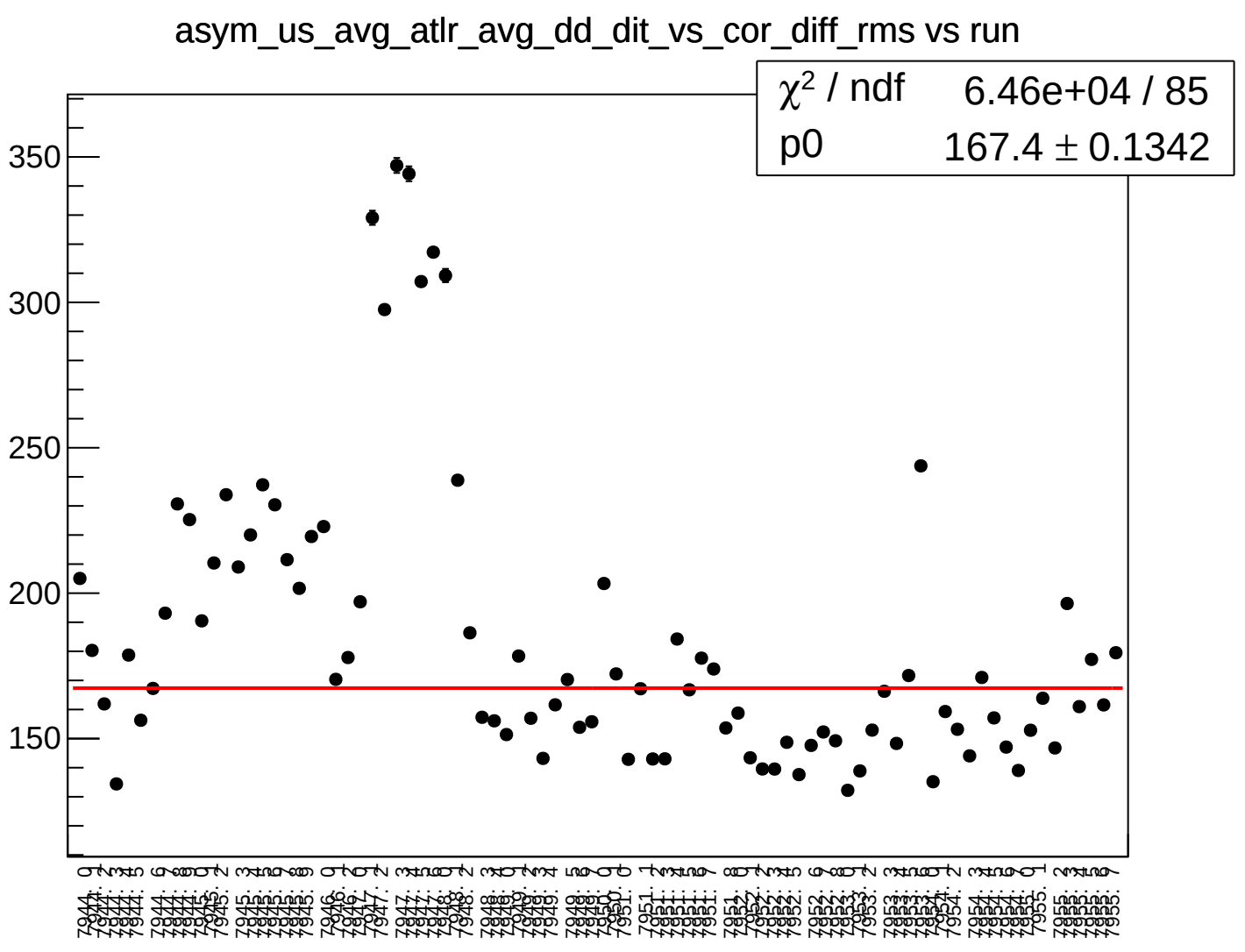

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 3187 / 85
p0 4718 ± 3.712
5400
5200
5000
4800
4600
4400

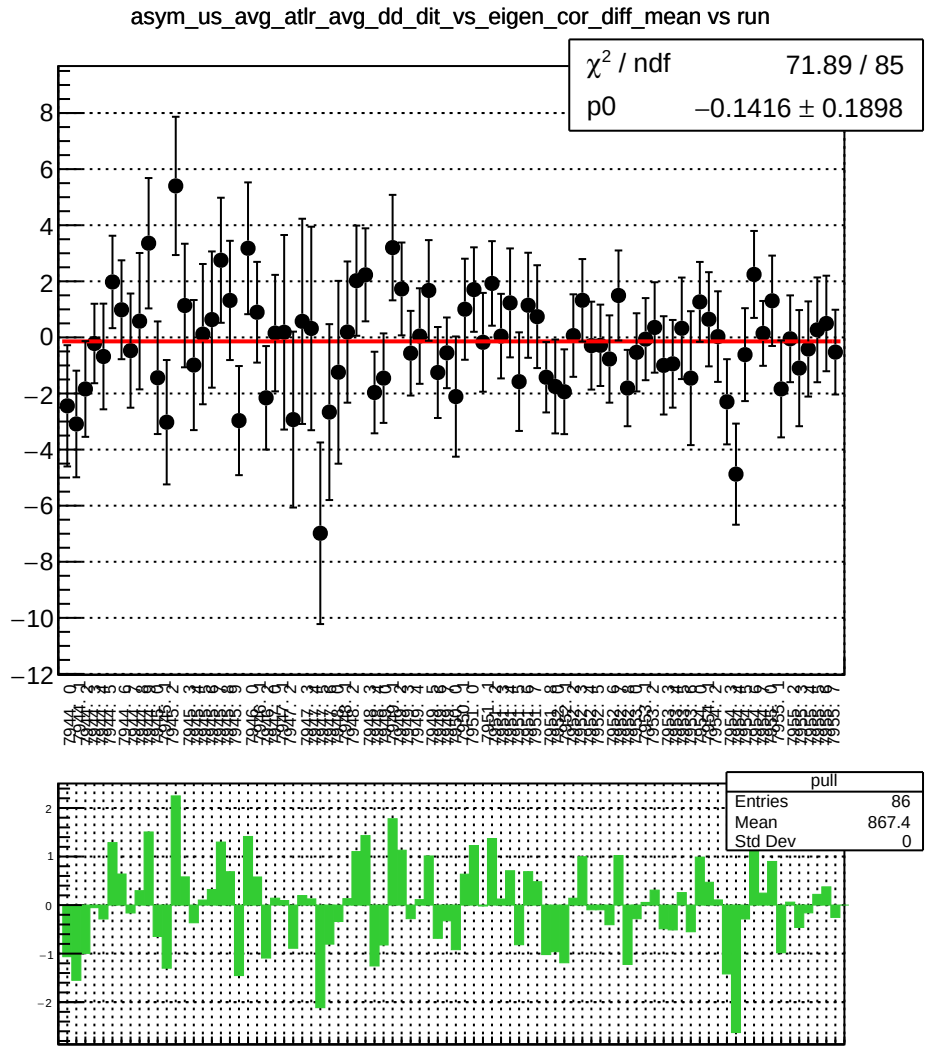

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.07 / 85
p0 2.093e−13 ± 9.045e−13
pull
Entries 86
Mean 28.85
Std Dev 27.46
pull1D
Entries 86
Mean 0.0697
Std Dev 1.044

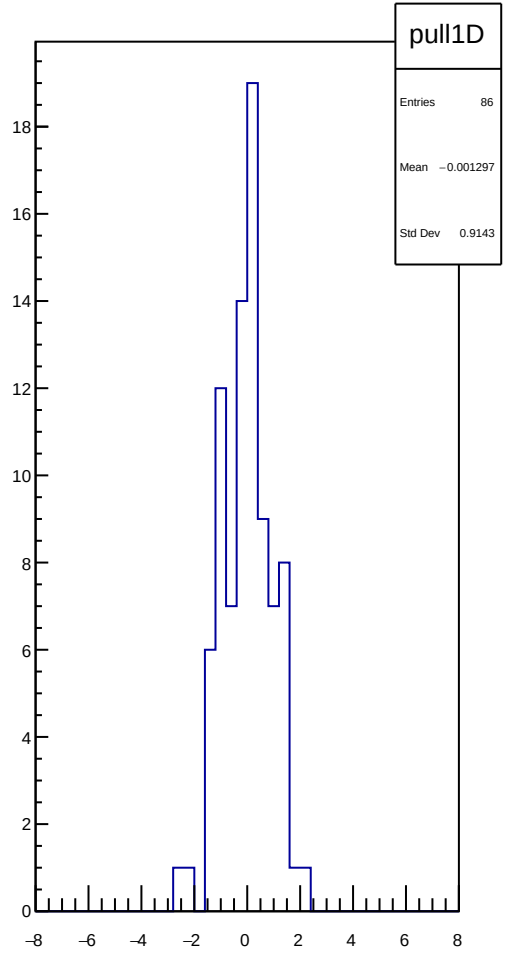

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.408e+05 / 85
p0 5.994e−10 ± 6.396e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

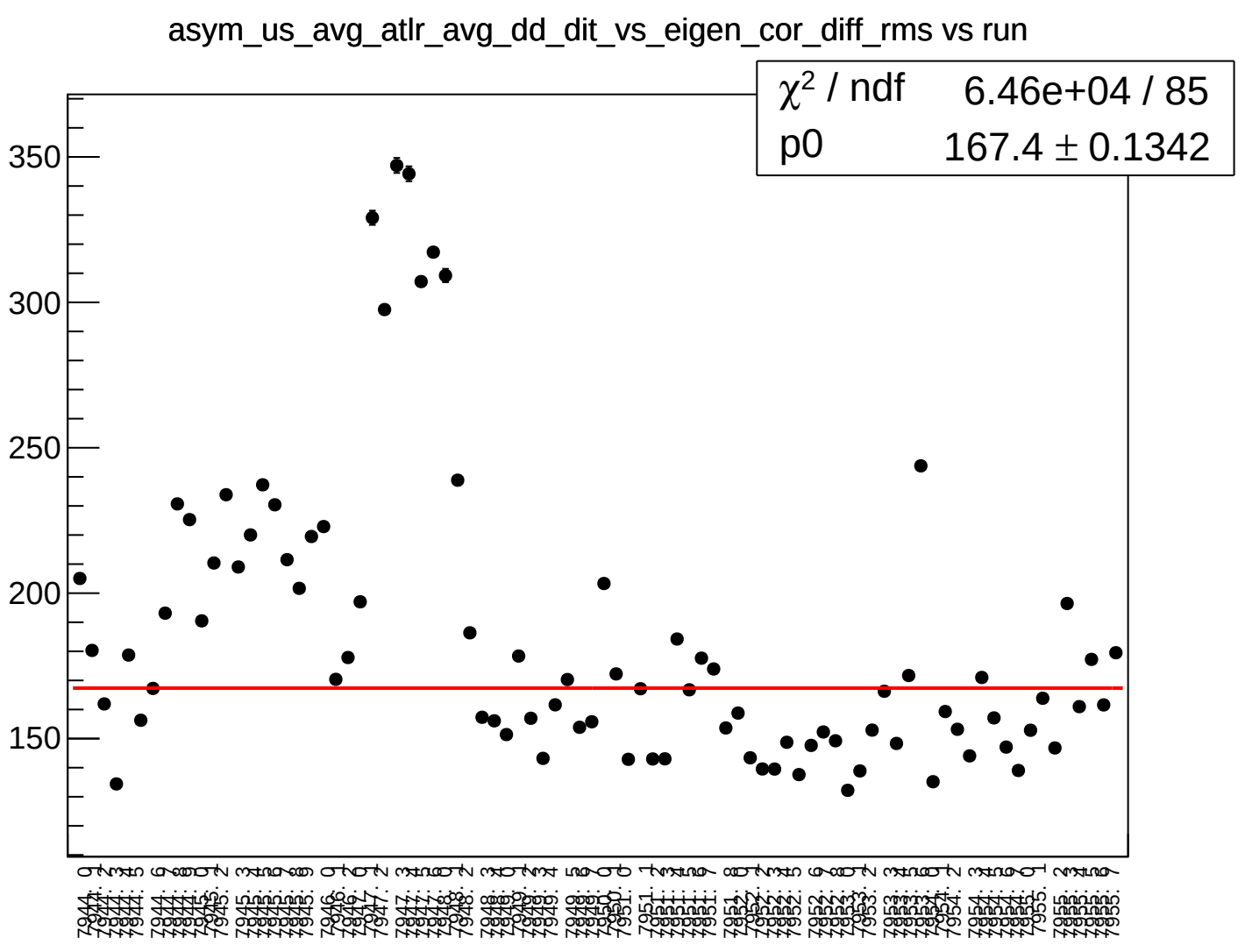

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.89 / 85
p0 −0.1416 ± 0.1898
pull
Entries 86
Mean 867.4
Std Dev 0

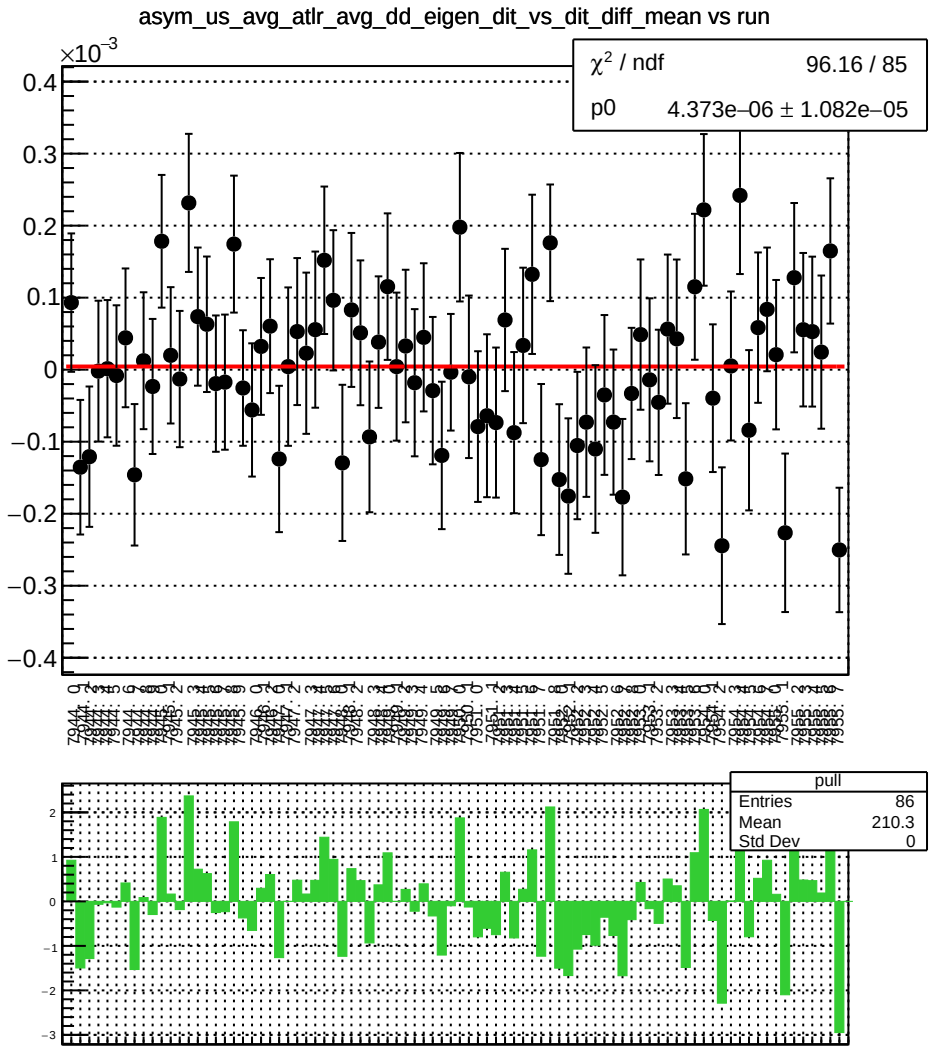

pull1D
Entries 86
Mean −0.001297
Std Dev 0.9143

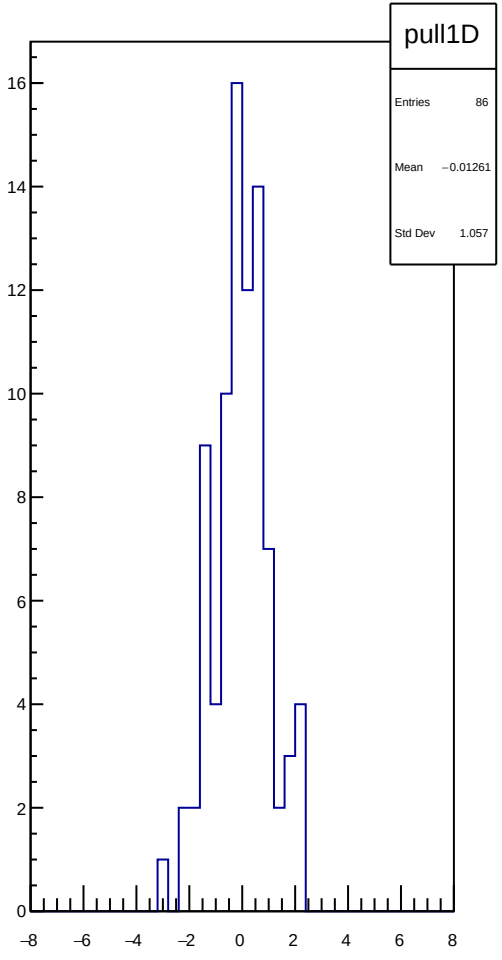

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.46e+04 / 85
p0 167.4 ± 0.1342
350
300
250
200
150

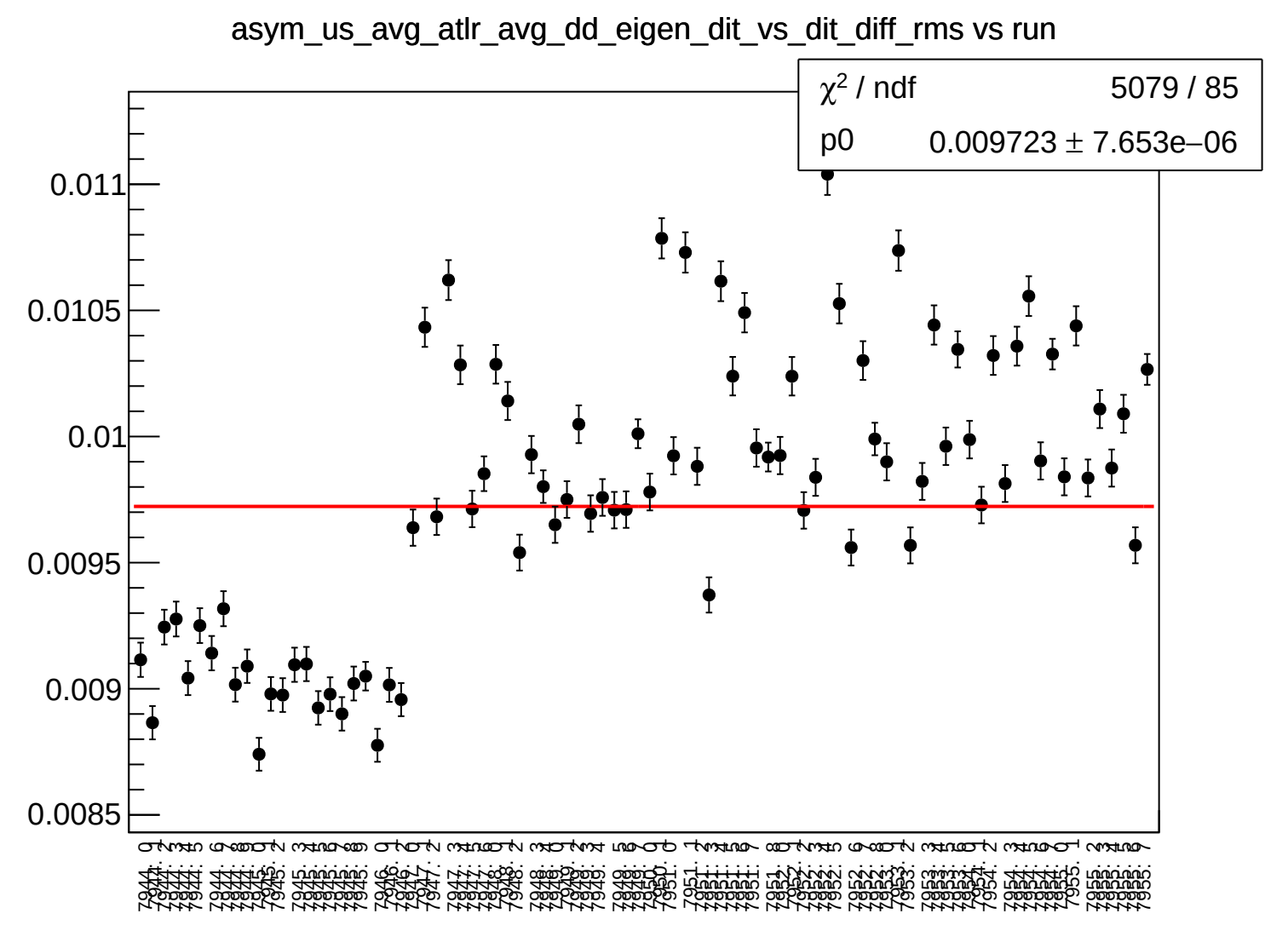

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.89 / 85
p0 −0.1416 ± 0.1898
pull
Entries 86
Mean 867.4
Std Dev 0

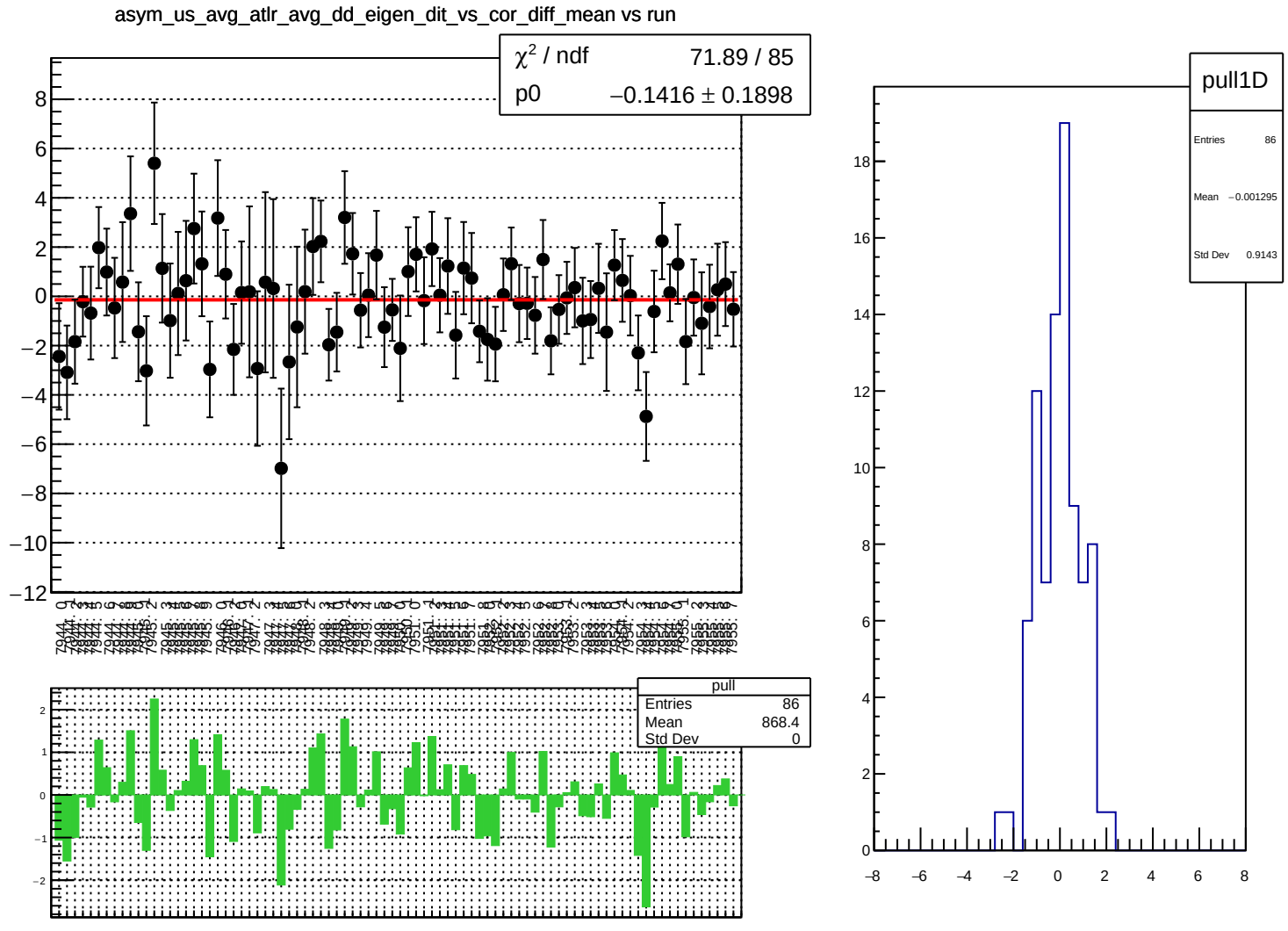

pull1D
Entries 86
Mean −0.001297
Std Dev 0.9143

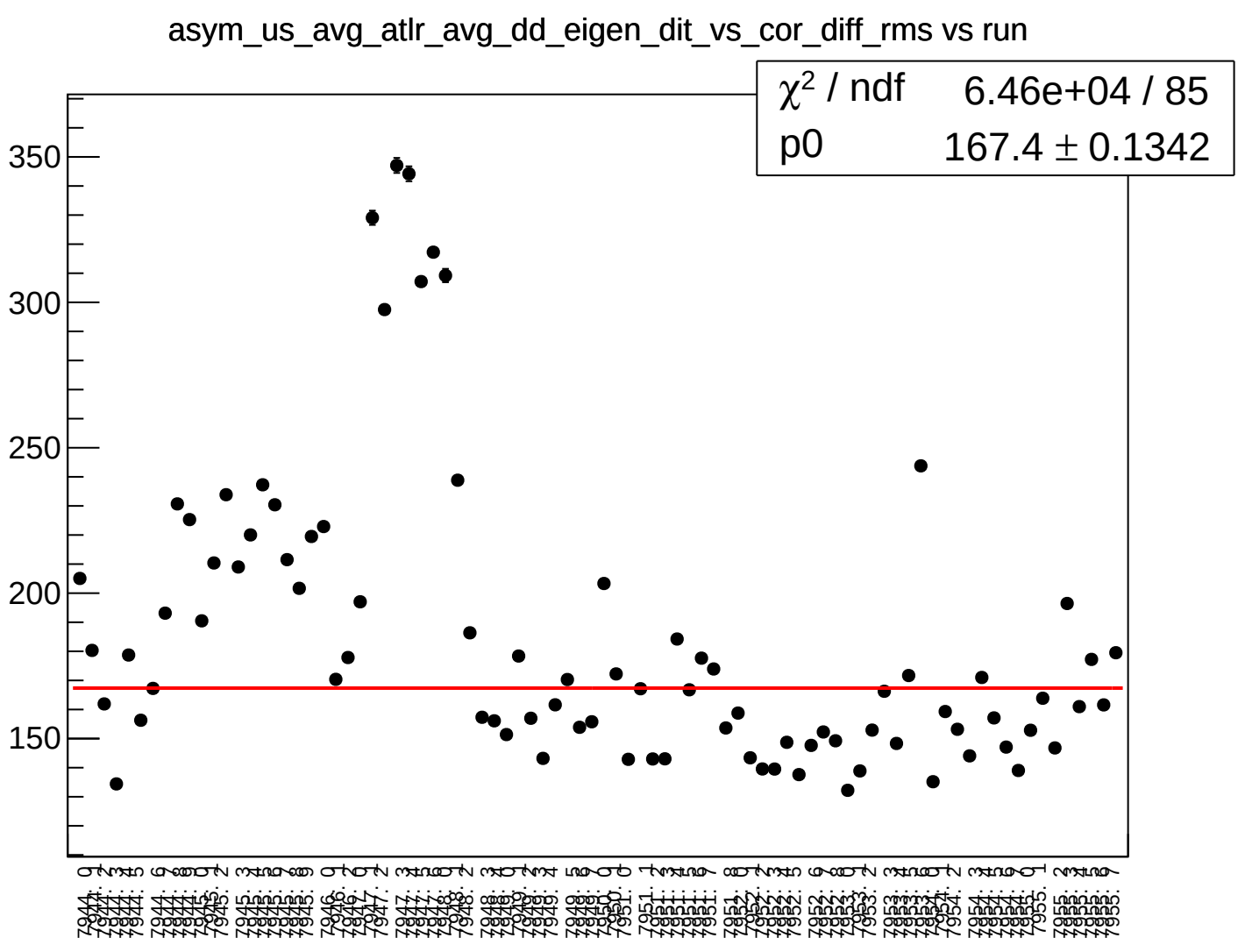

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.46e+04 / 85
p0 167.4 ± 0.1342
350
300
250
200
150

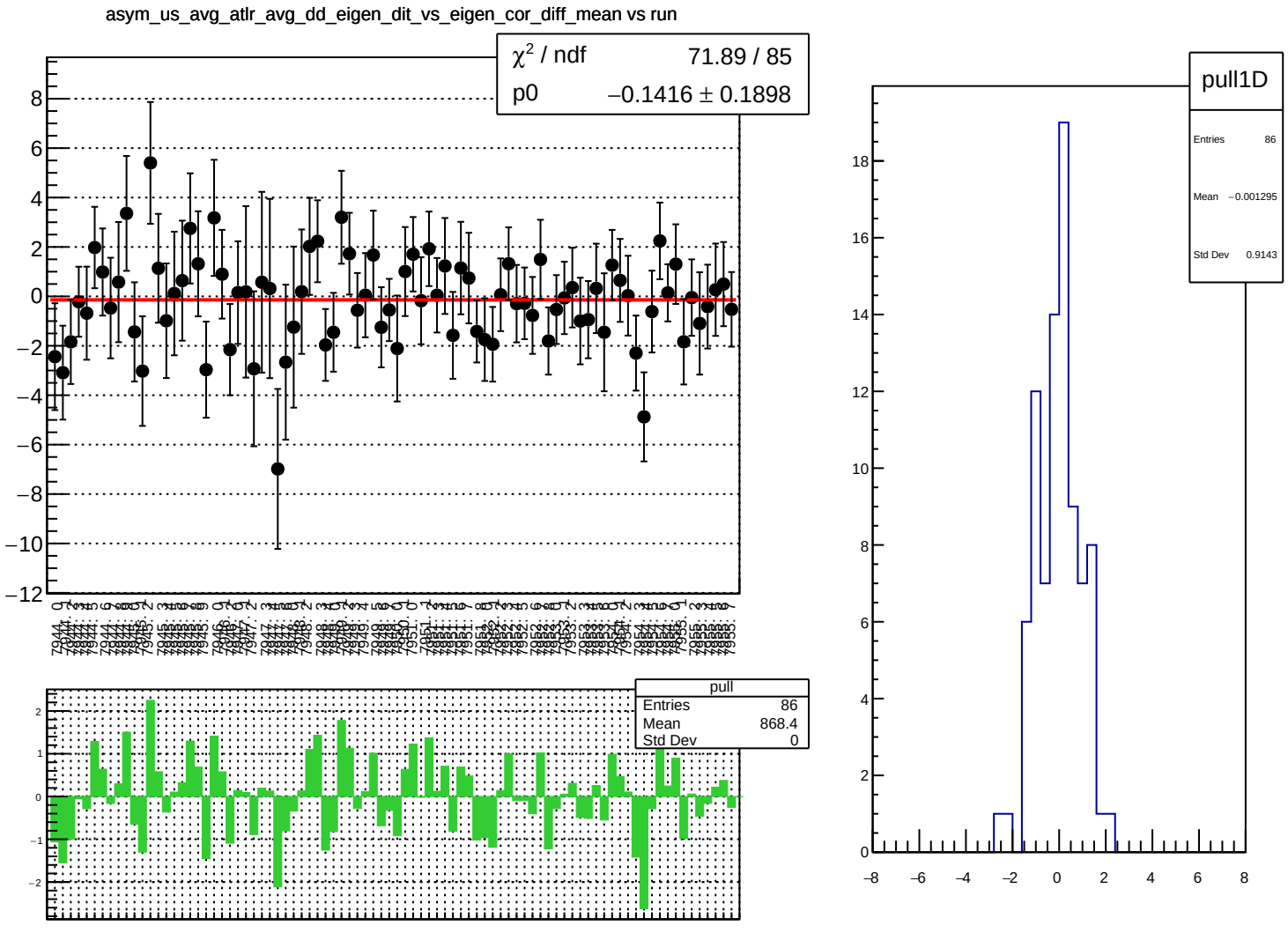

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.16 / 85
p0 4.373e−06 ± 1.082e−05
pull
Entries 86
Mean 210.3
Std Dev 0

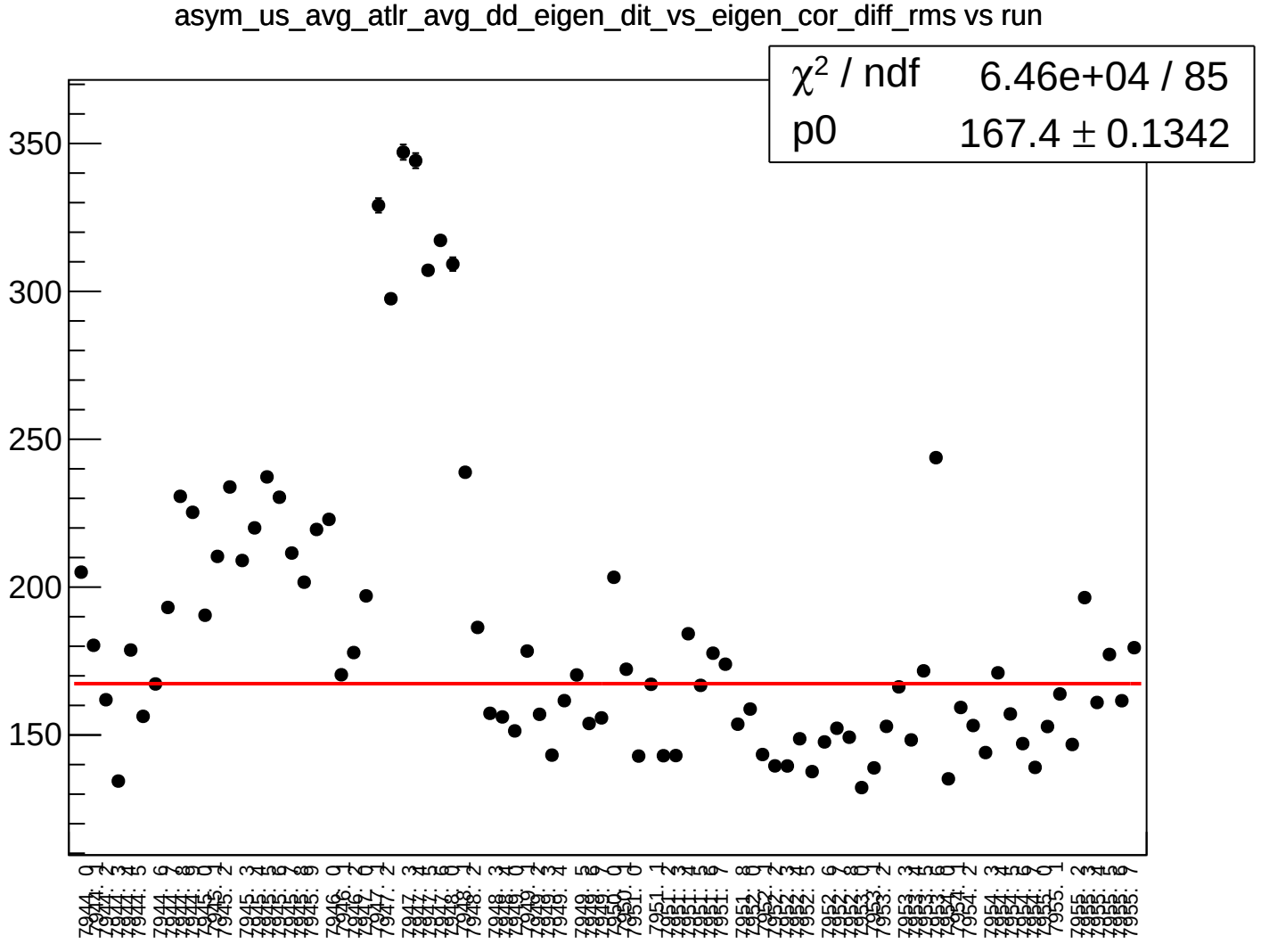

pull1D
Entries 86
Mean −0.01261
Std Dev 1.057

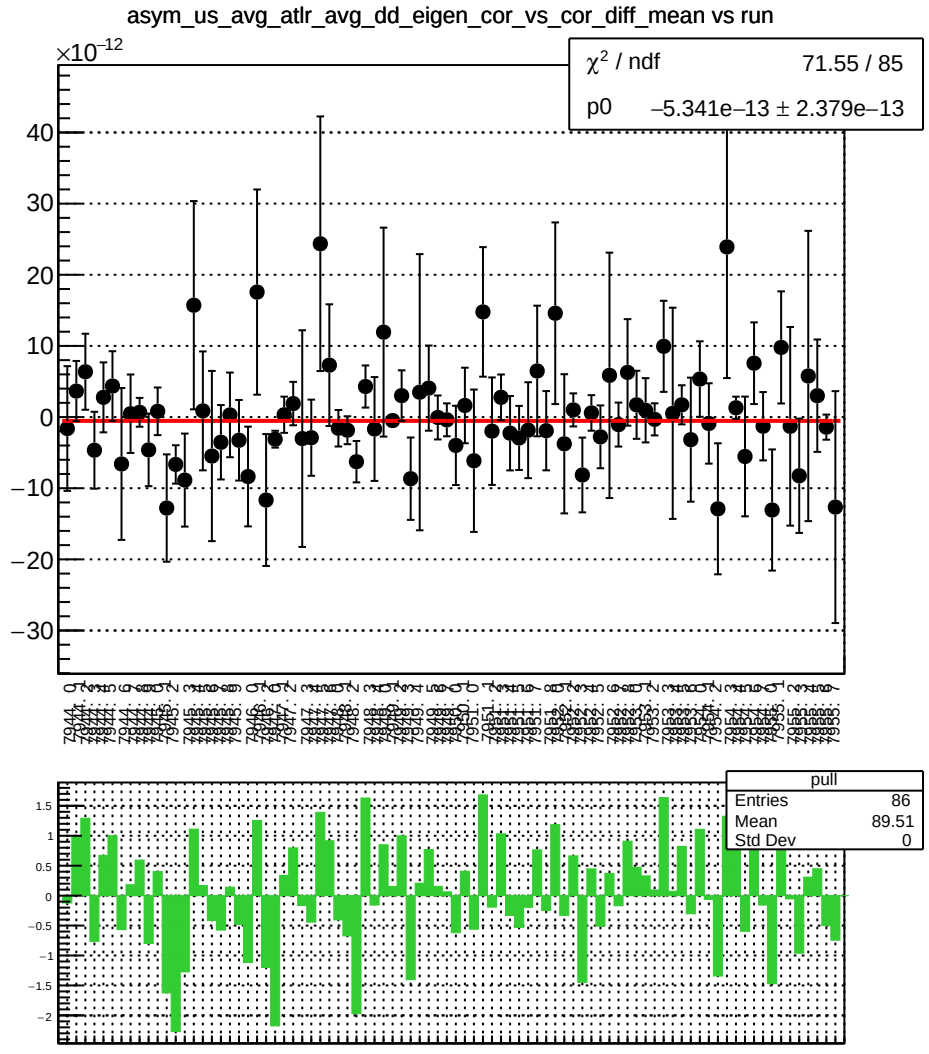

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5079 / 85
p0 0.009723 ± 7.653e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085

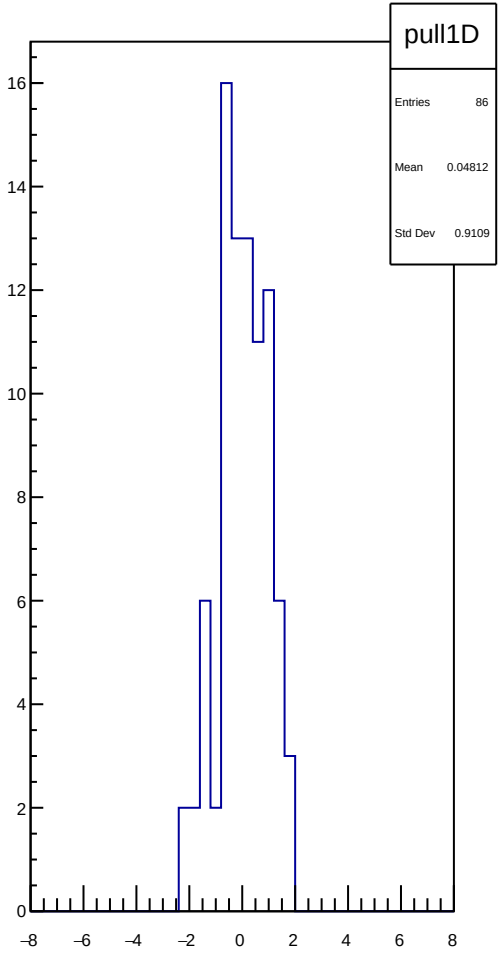

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.89 / 85
p0 −0.1416 ± 0.1898
pull
Entries 86
Mean 868.4
Std Dev 0
pull1D
Entries 86
Mean −0.001295
Std Dev 0.9143

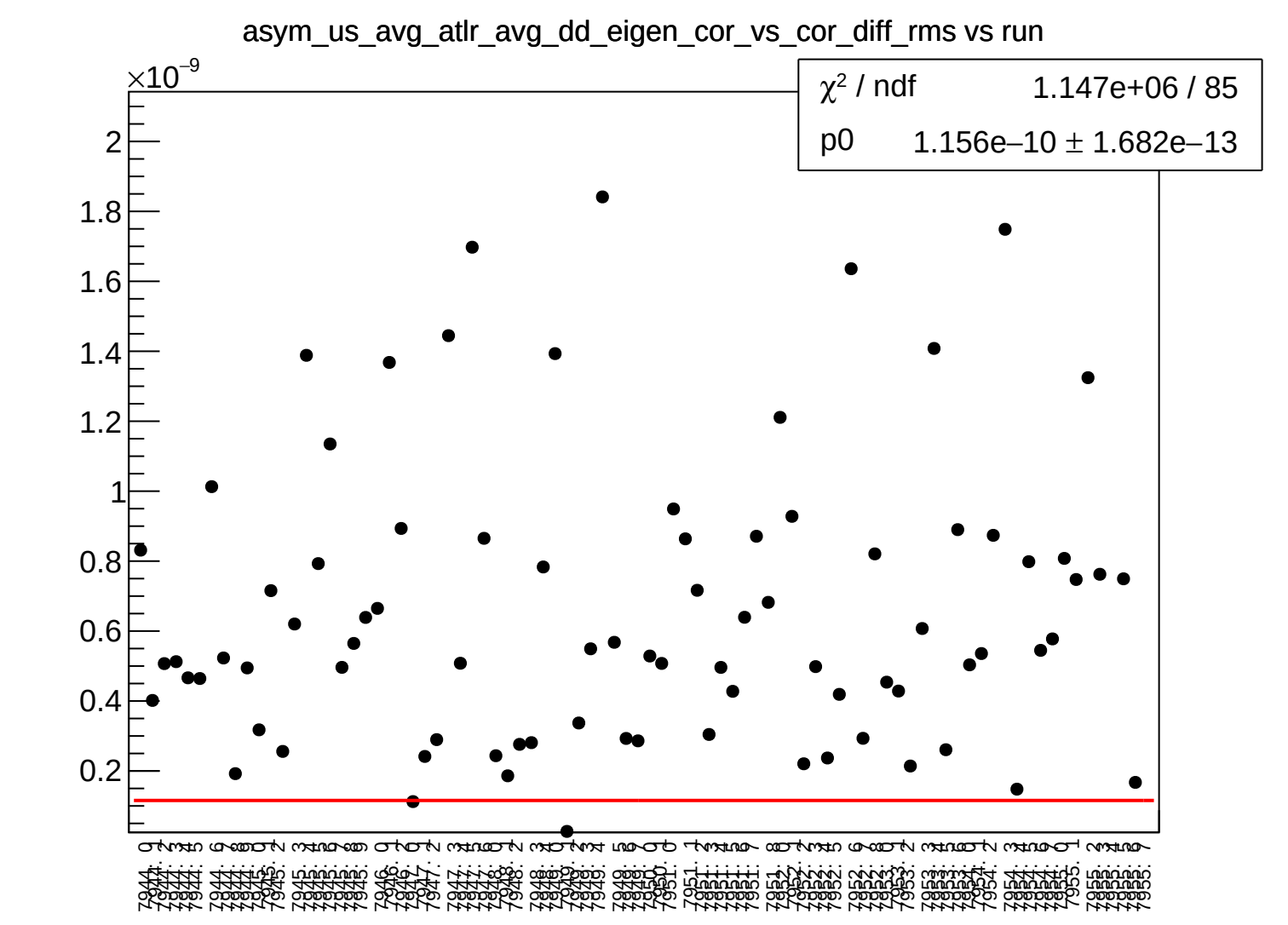

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.46e+04 / 85
p0 167.4 ± 0.1342
350
300
250
200
150

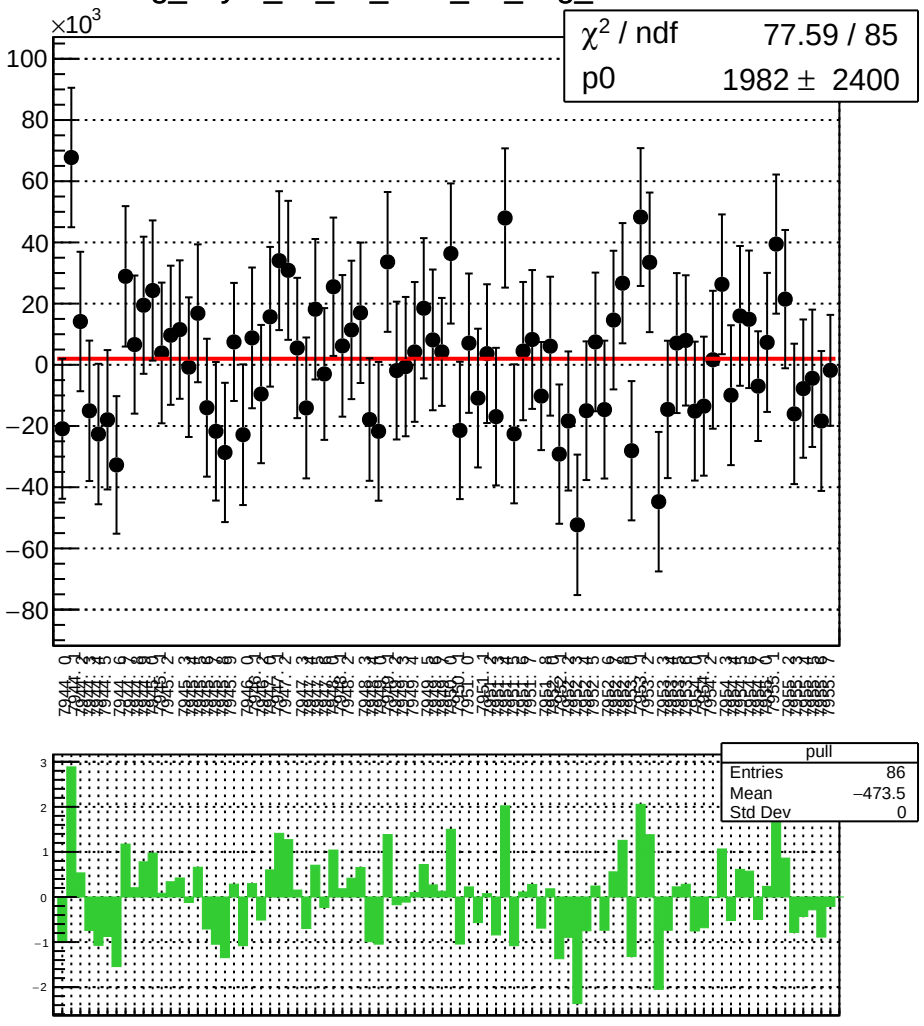

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.89 / 85
p0 −0.1416 ± 0.1898
pull
Entries 86
Mean 868.4
Std Dev 0
pull1D
Entries 86
Mean −0.001295
Std Dev 0.9143

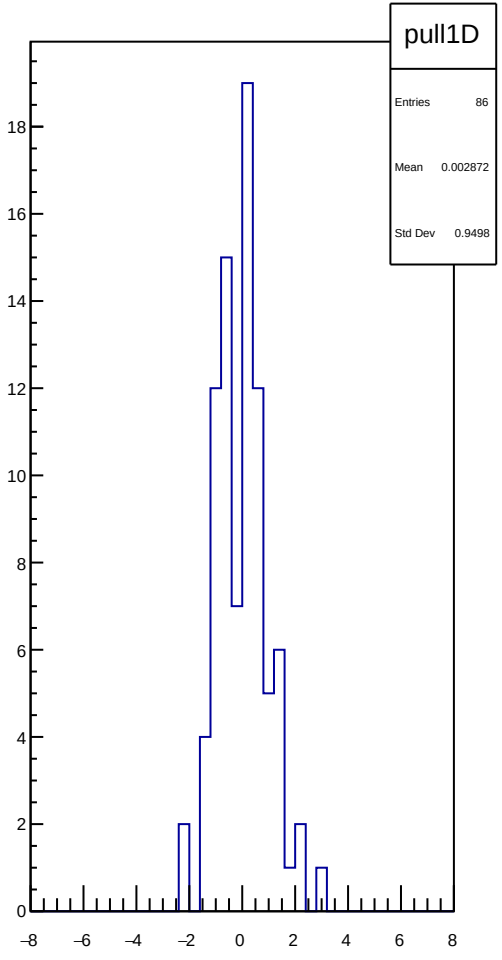

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.46e+04 / 85
p0 167.4 ± 0.1342
350
300
250
200
150

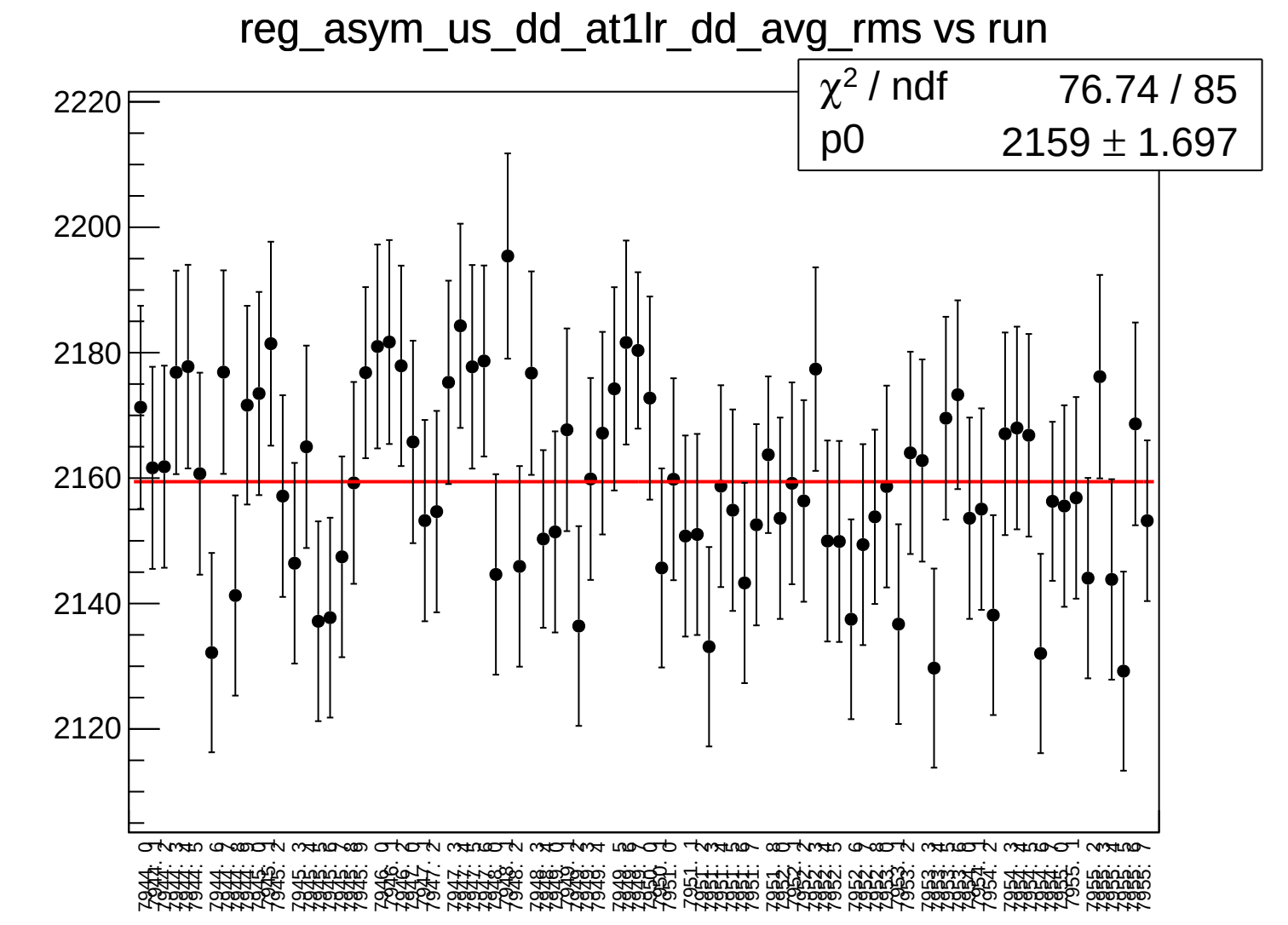

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.55 / 85
p0 −5.341e−13 ± 2.379e−13
pull
Entries 86
Mean 89.51
Std Dev 0

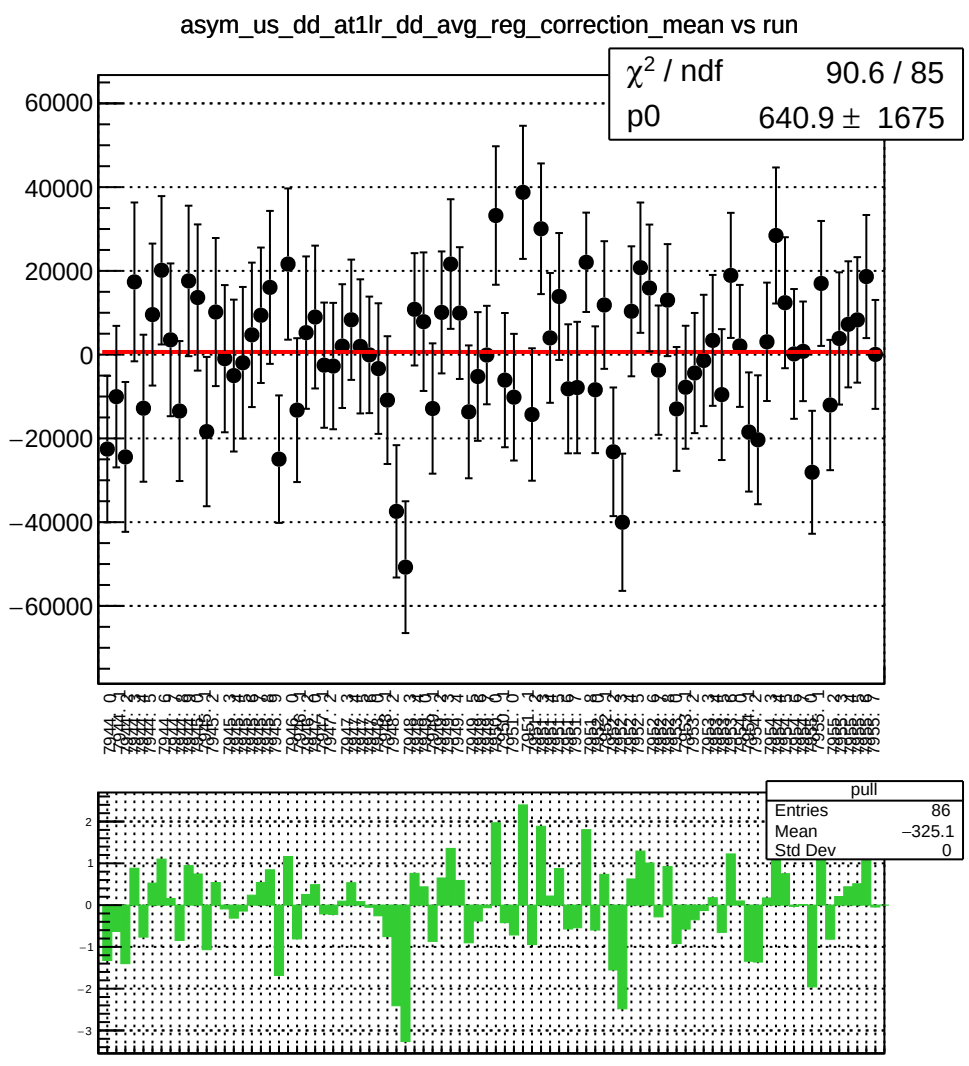

pull1D
Entries 86
Mean 0.04812
Std Dev 0.9109

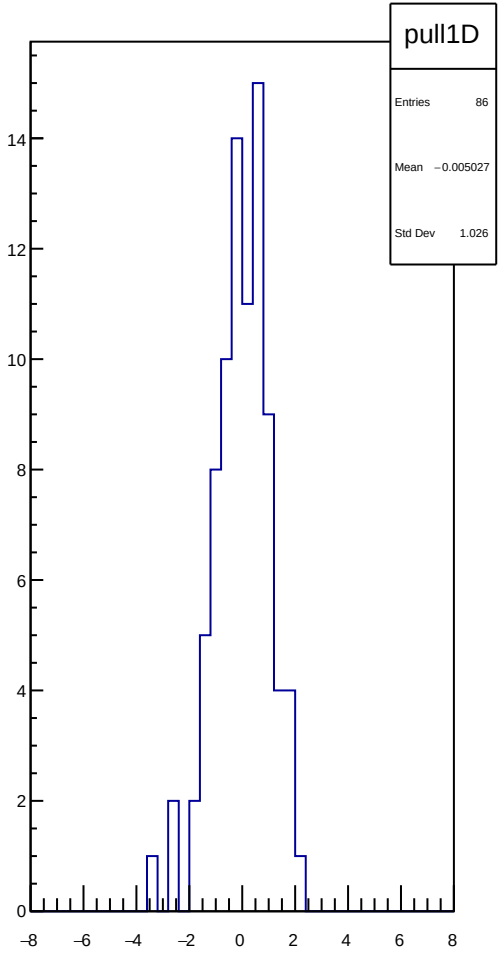

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.147e+06 / 85
p0 1.156e−10 ± 1.682e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

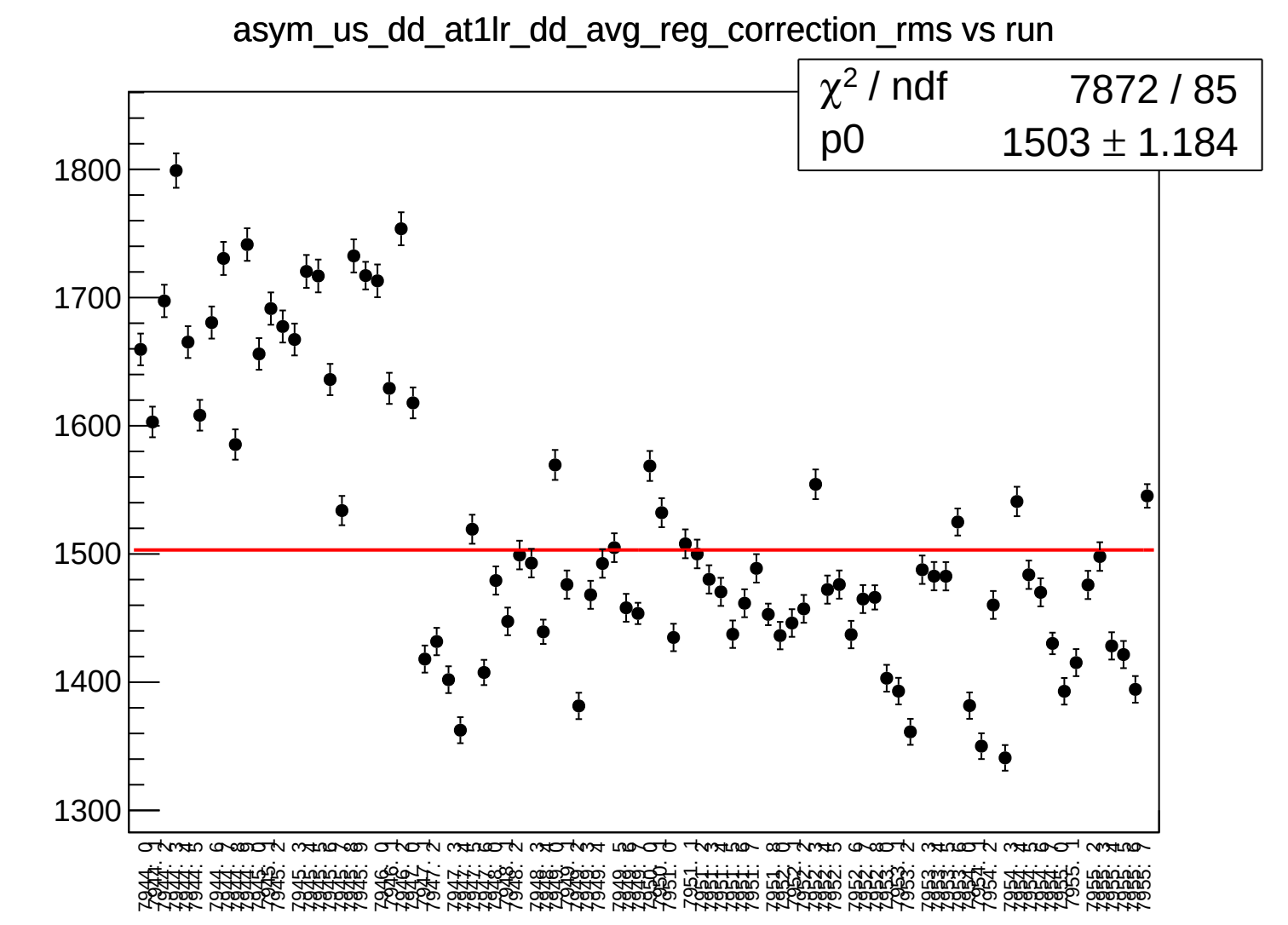

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 77.59 / 85
p0 1982 ± 2400
pull
Entries 86
Mean −473.5
Std Dev 0

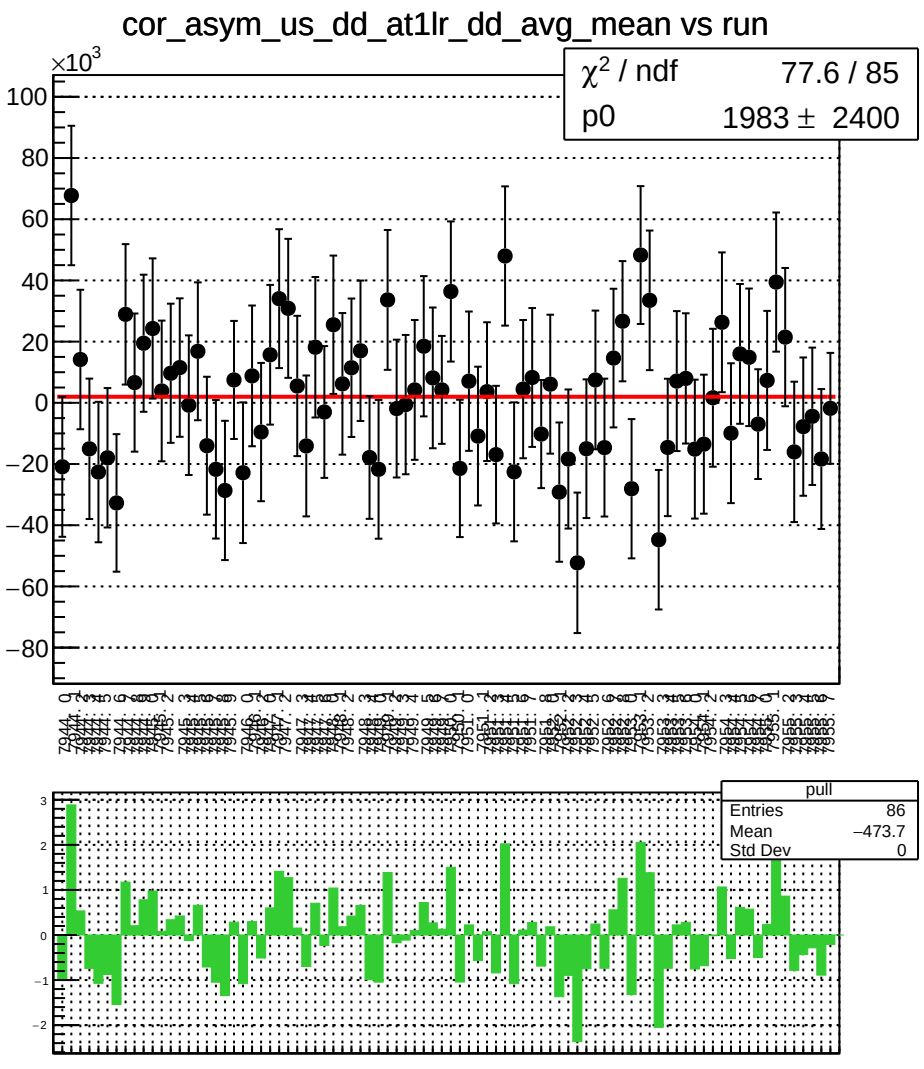

pull1D
Entries 86
Mean 0.002872
Std Dev 0.9498

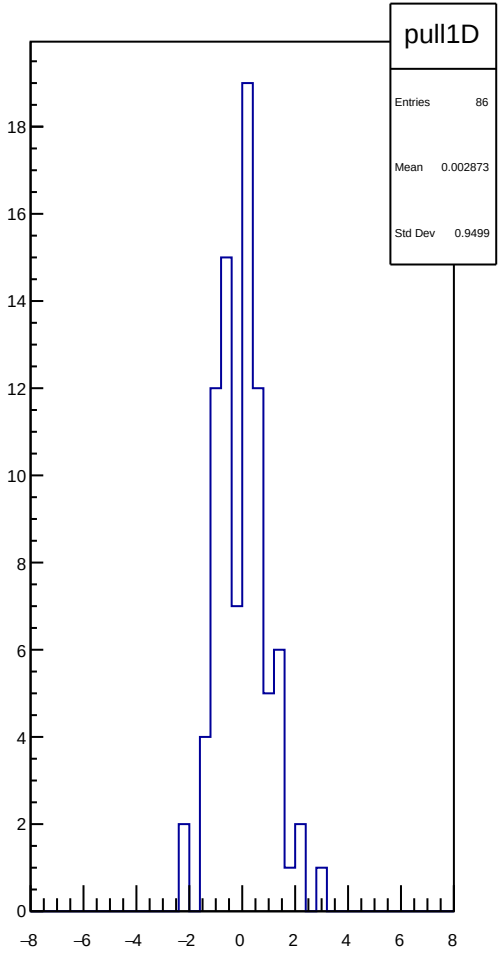

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 76.74 / 85
p0 2159 ± 1.697
2220
2200
2180
2160
2140
2120

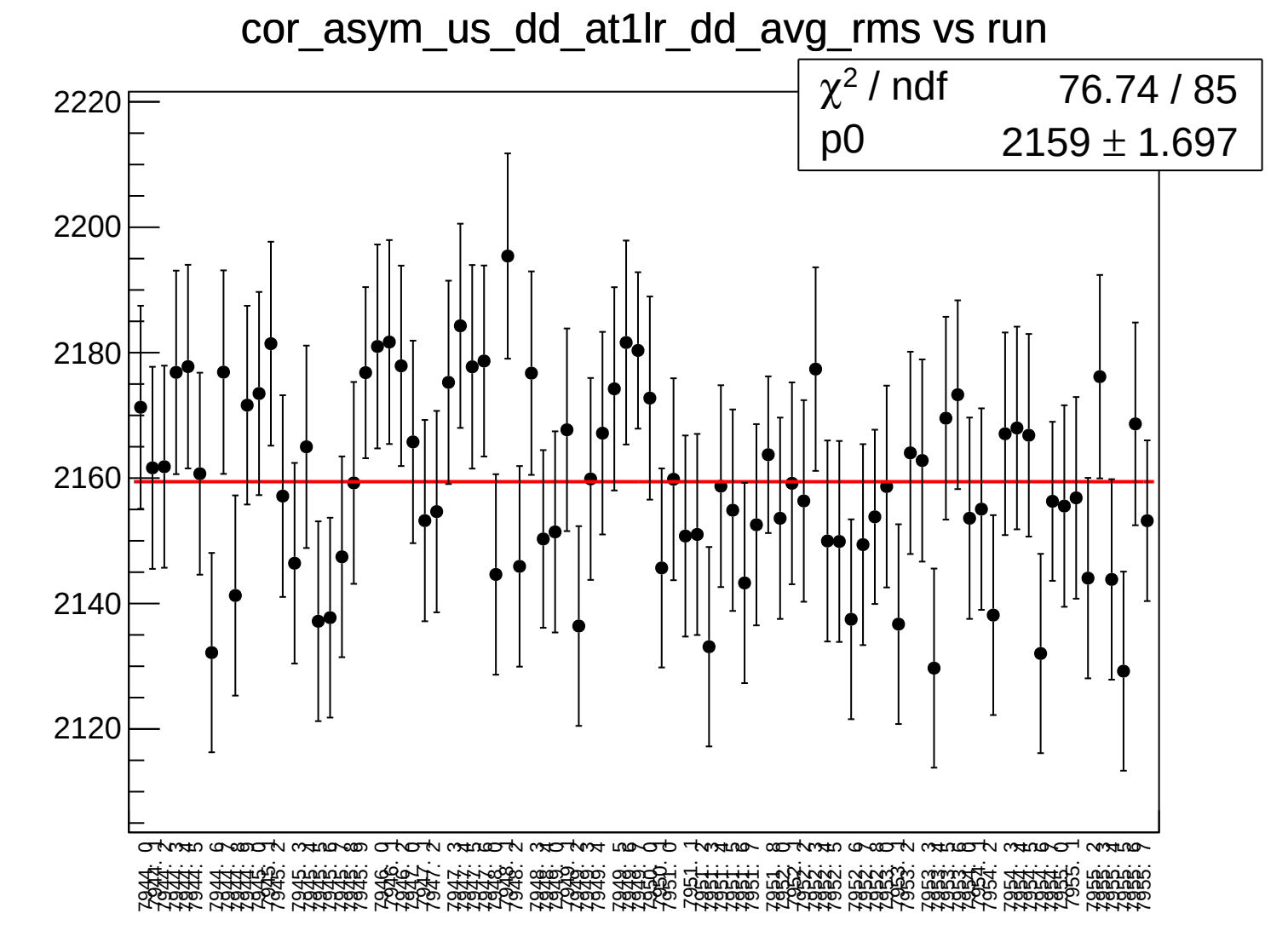

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 90.6 / 85
p0 640.9 ± 1675
pull
Entries 86
Mean −325.1
Std Dev 0

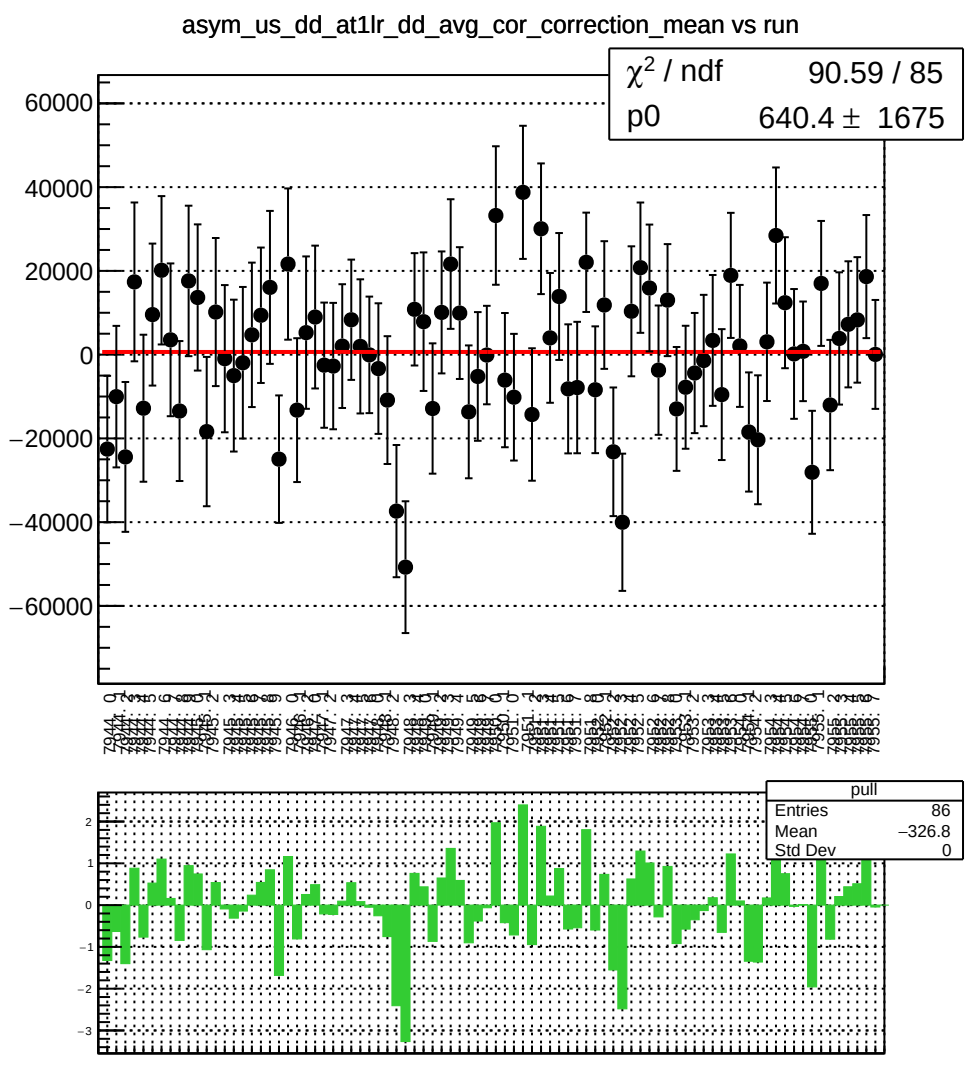

pull1D
Entries 86
Mean −0.005027
Std Dev 1.026

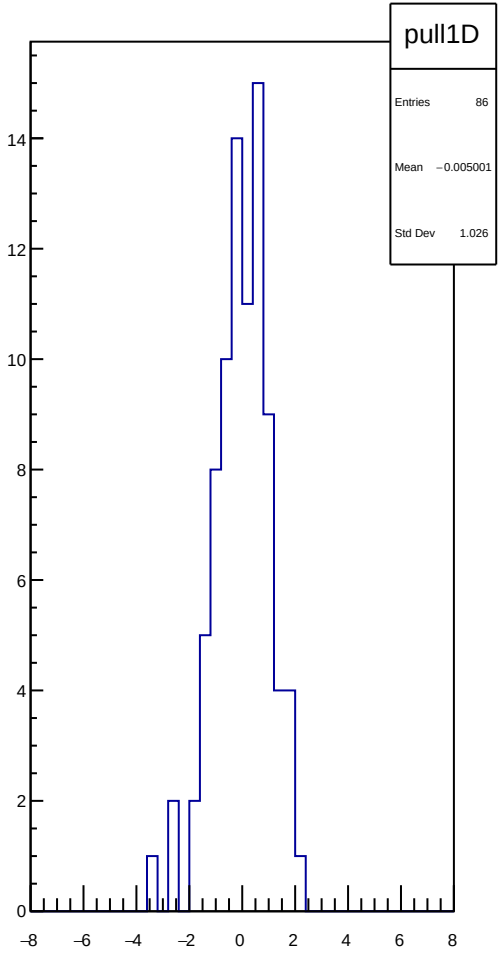

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7872 / 85
p0 1503 ± 1.184
1800
1700
1600
1500
1400
1300

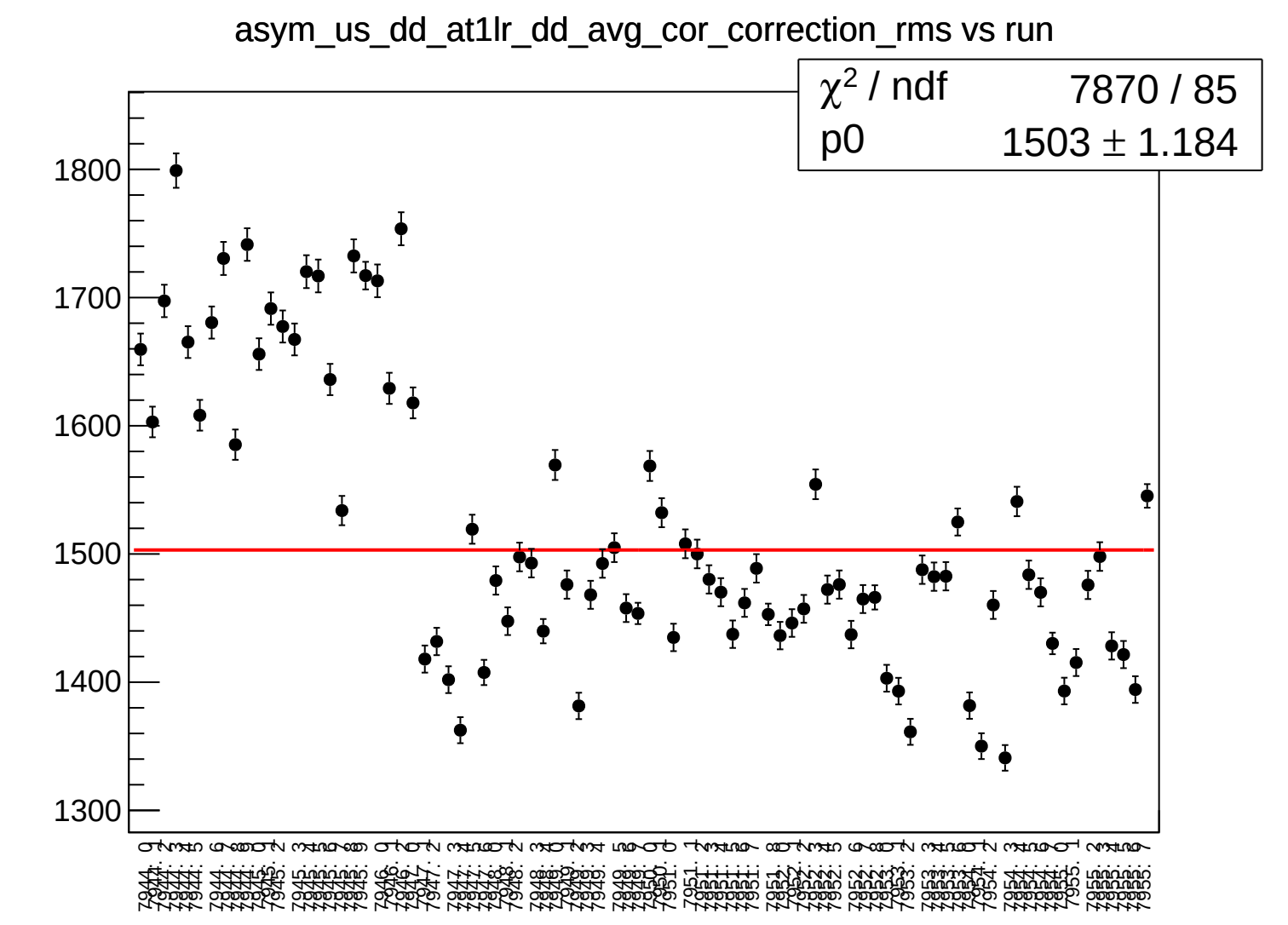

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 77.6 / 85
p0 1983 ± 2400
pull
Entries 86
Mean −473.7
Std Dev 0

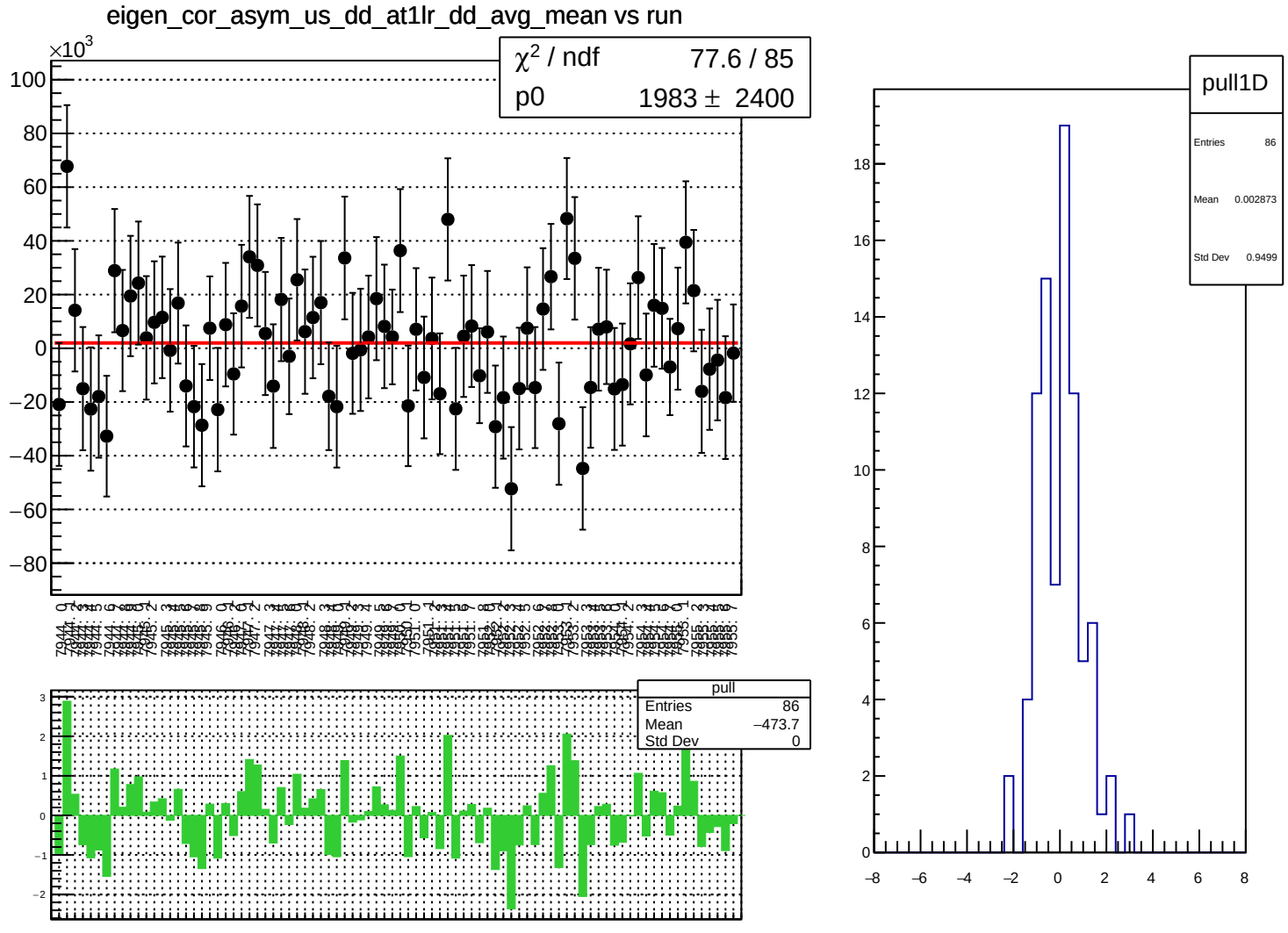

pull1D
Entries 86
Mean 0.002873
Std Dev 0.9499

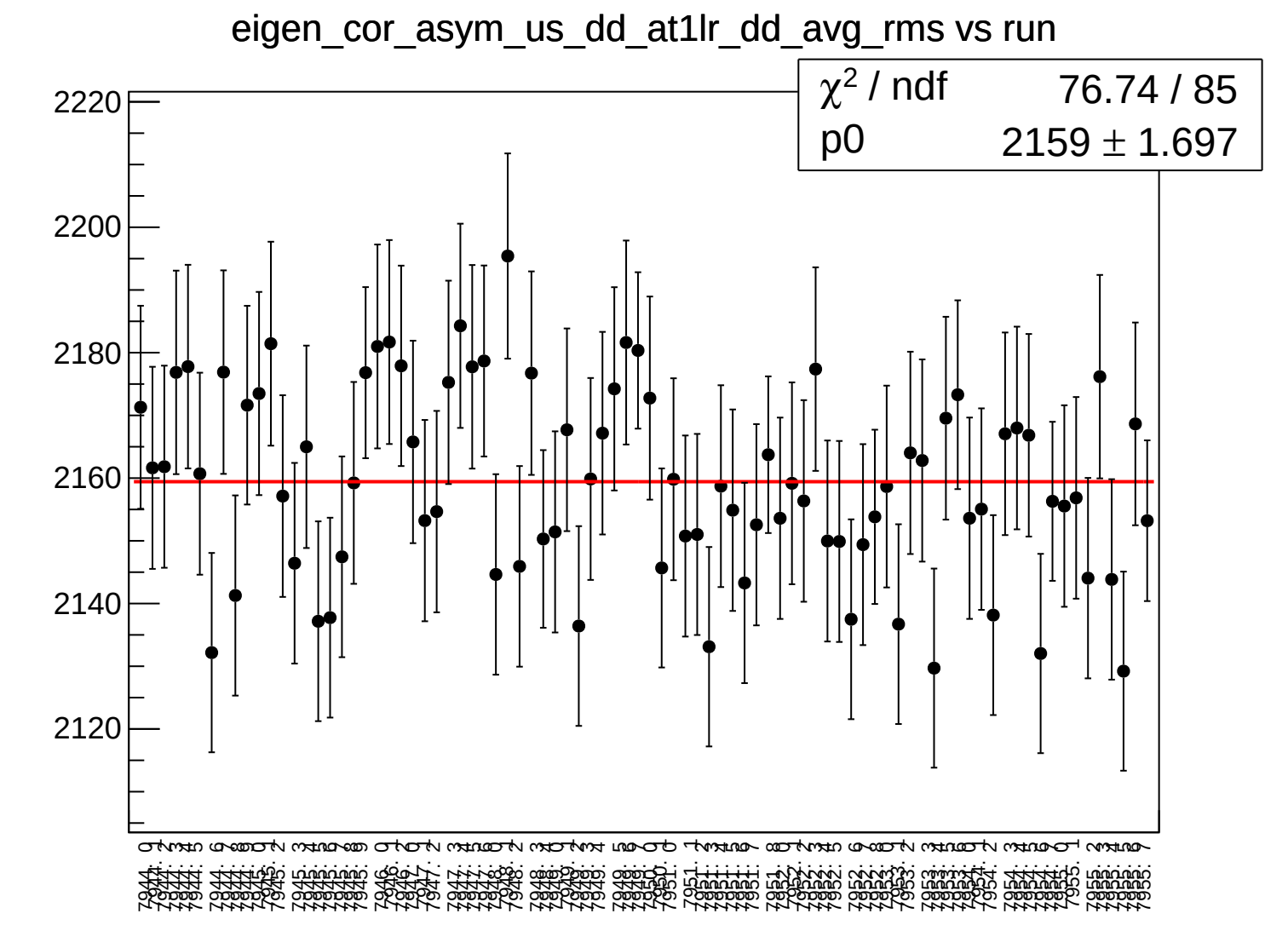

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 76.74 / 85
p0 2159 ± 1.697
2220
2200
2180
2160
2140
2120

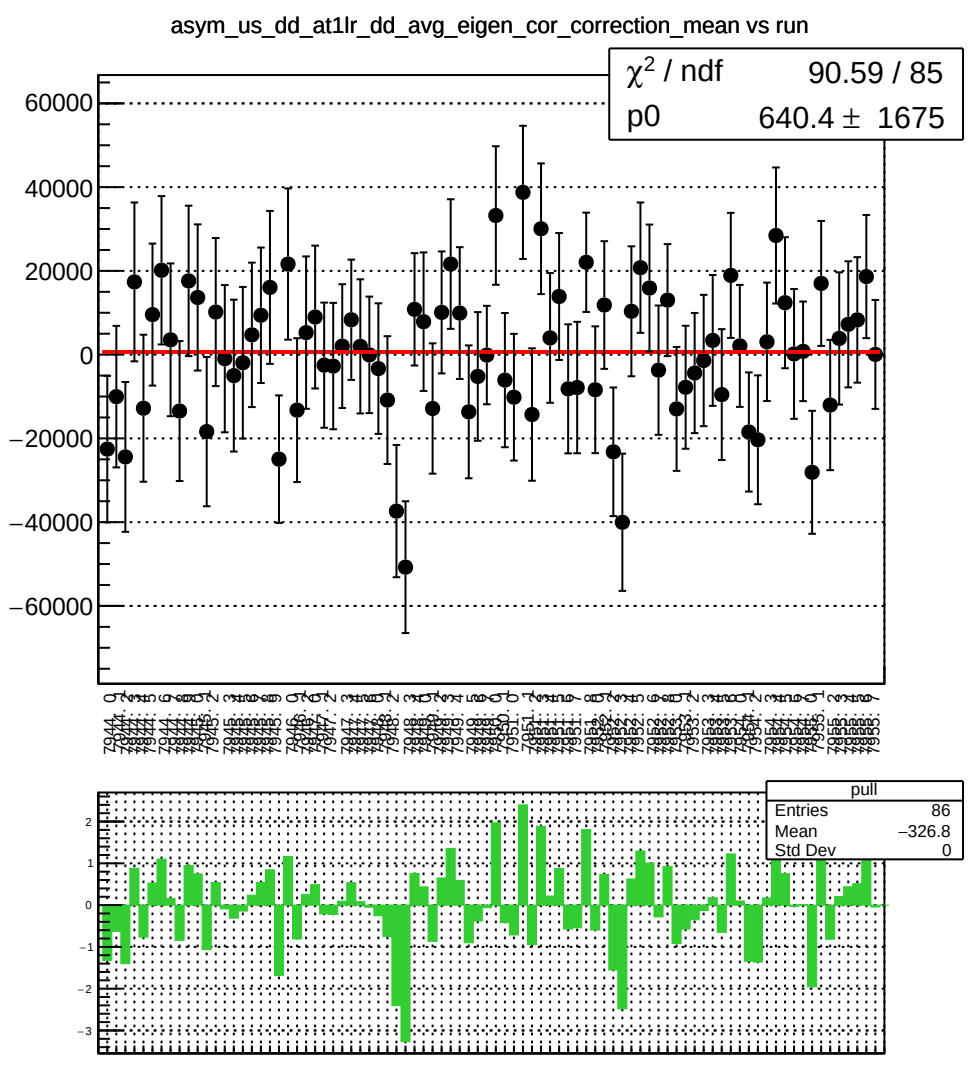

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 90.59 / 85
p0 640.4 ± 1675
pull
Entries 86
Mean −326.8
Std Dev 0

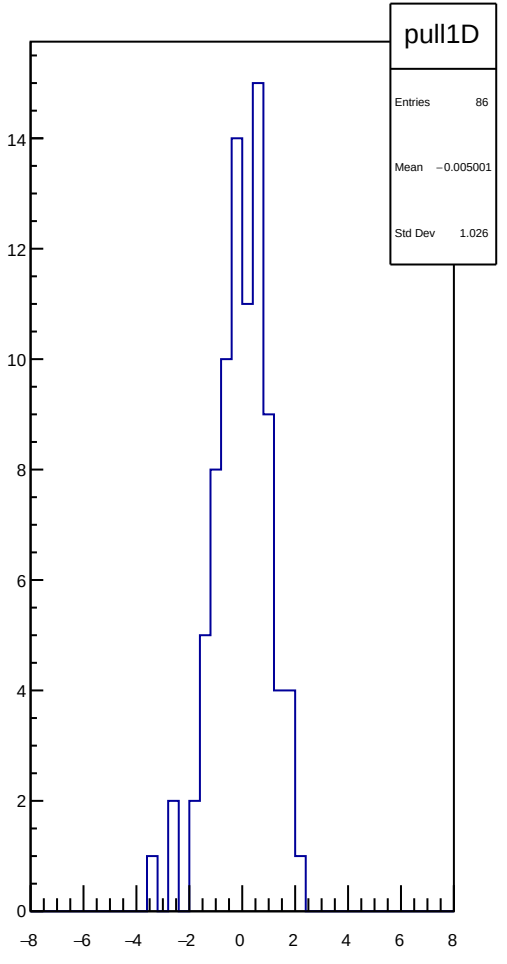

pull1D
Entries 86
Mean −0.005001
Std Dev 1.026

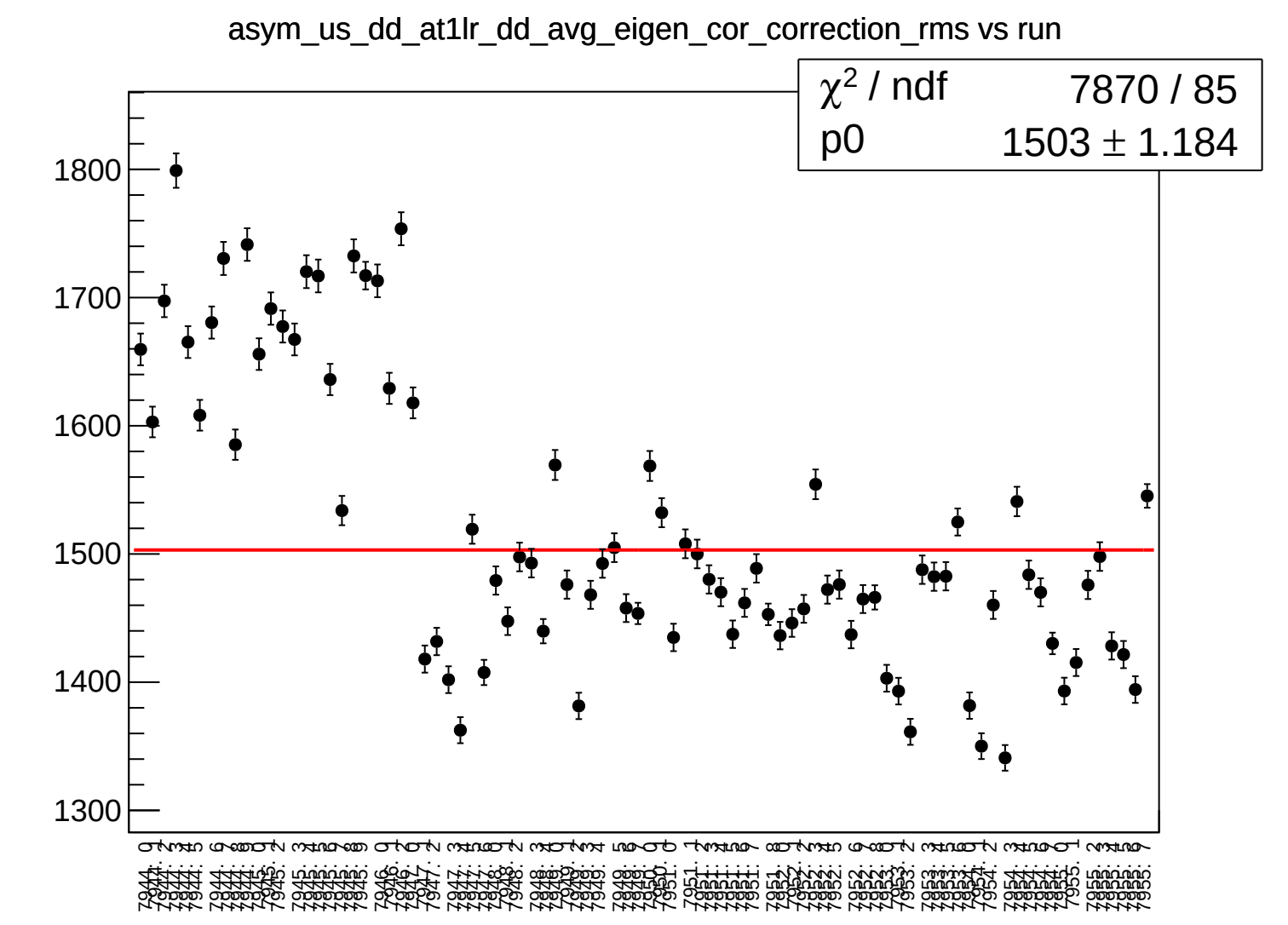

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 7870 / 85
p0 1503 ± 1.184
1800
1700
1600
1500
1400
1300

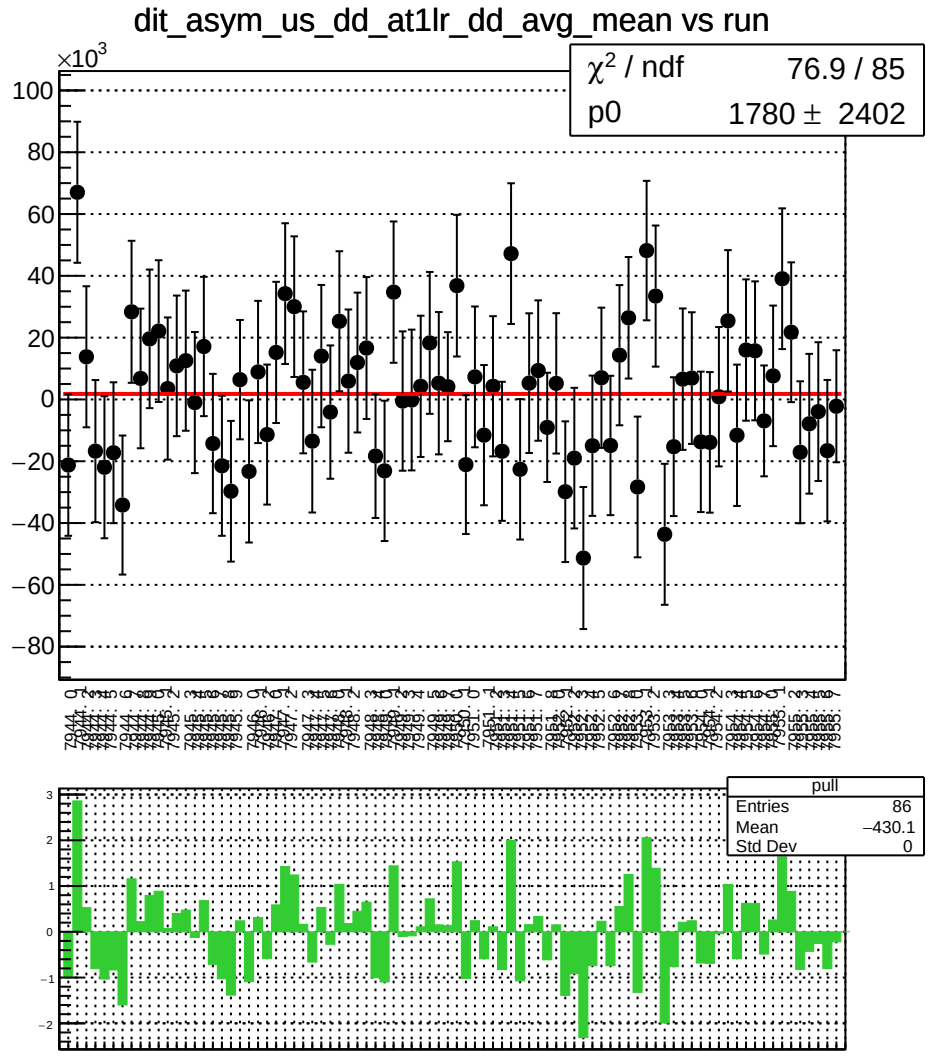

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 77.6 / 85
p0 1983 ± 2400
pull
Entries 86
Mean −473.7
Std Dev 0
pull1D
Entries 86
Mean 0.002873
Std Dev 0.9499

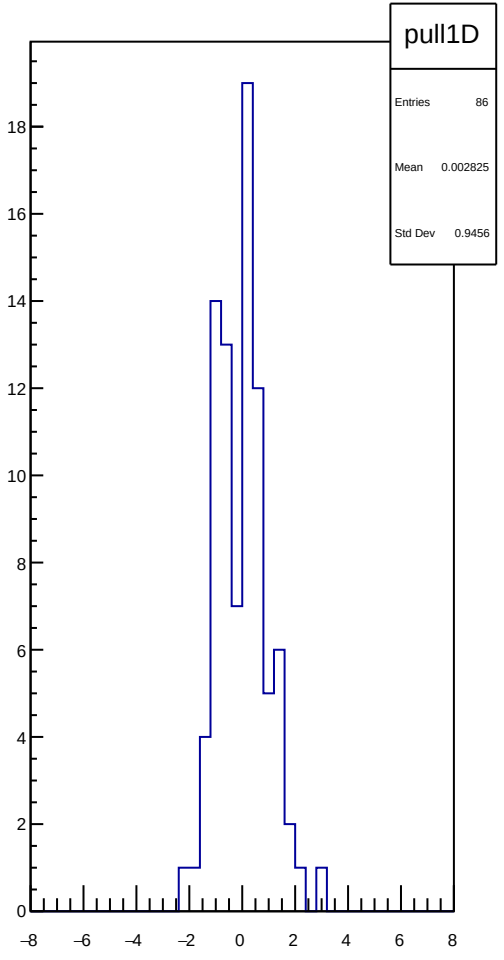

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 76.74 / 85
p0 2159 ± 1.697
2220
2200
2180
2160
2140
2120

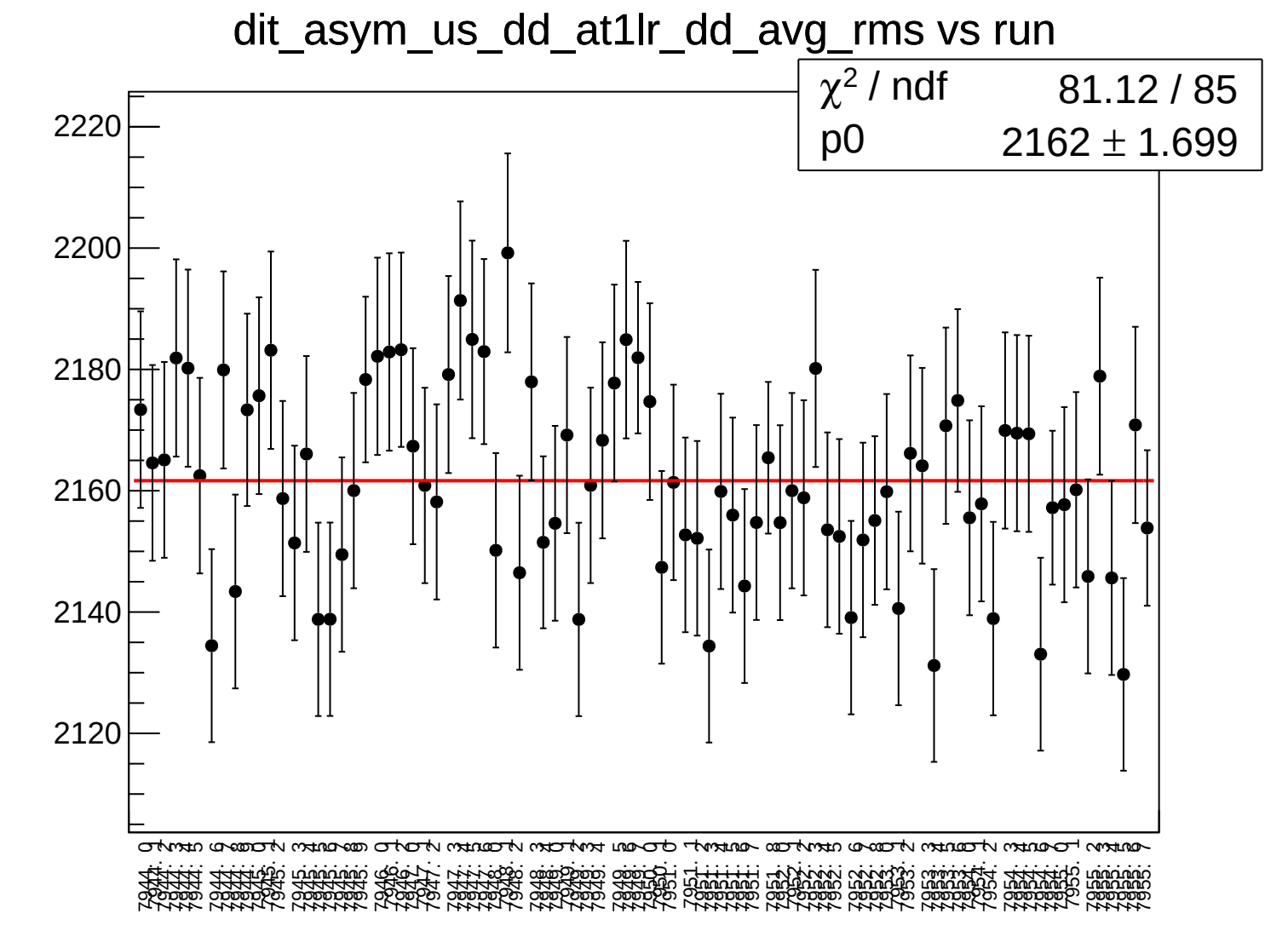

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.59 / 85
p0 640.4 ± 1675
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −326.8
Std Dev 0
2
1
0
−1
−2
−3

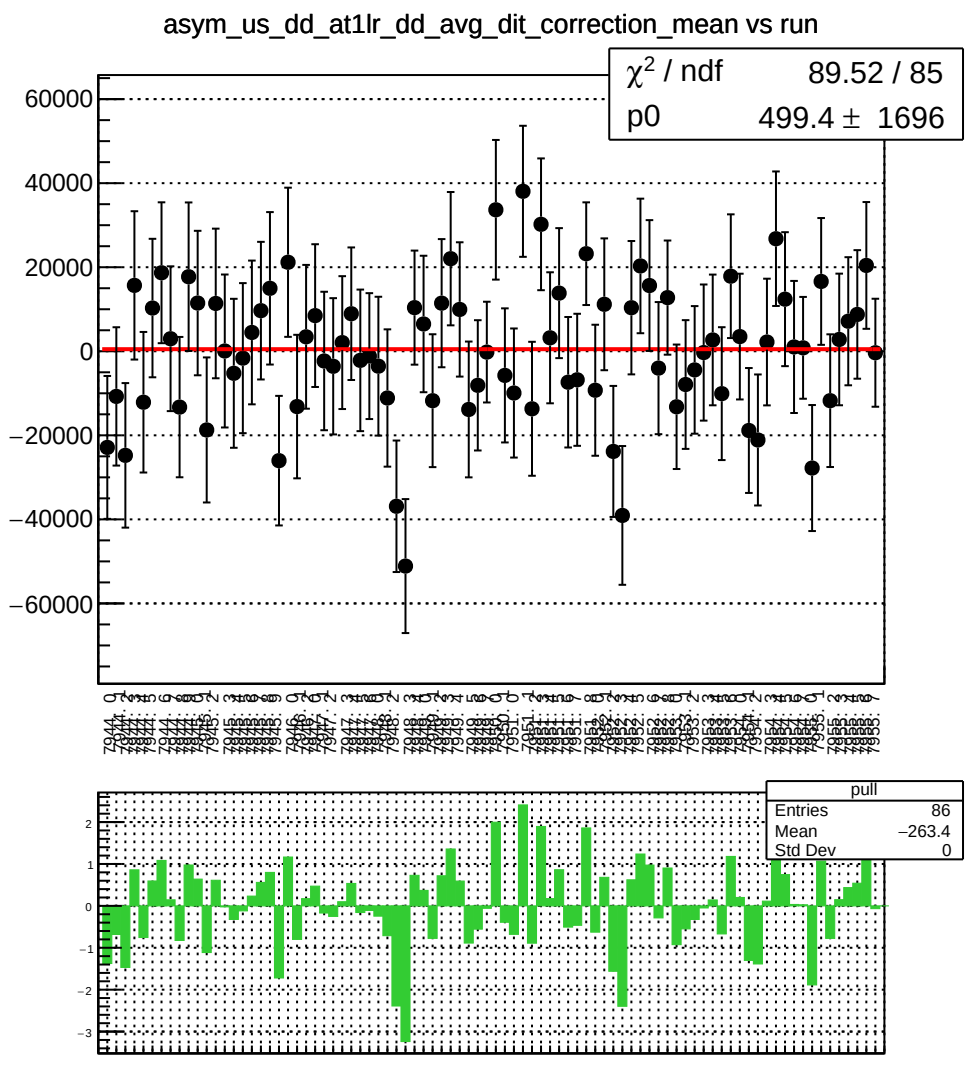

pull1D
Entries 86
Mean −0.005001
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

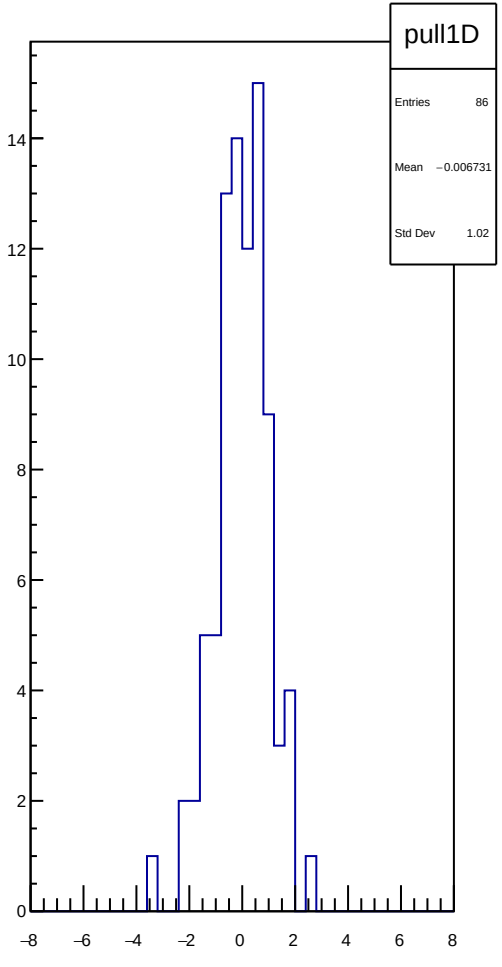

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7870 / 85
p0 1503 ± 1.184
1800
1700
1600
1500
1400
1300

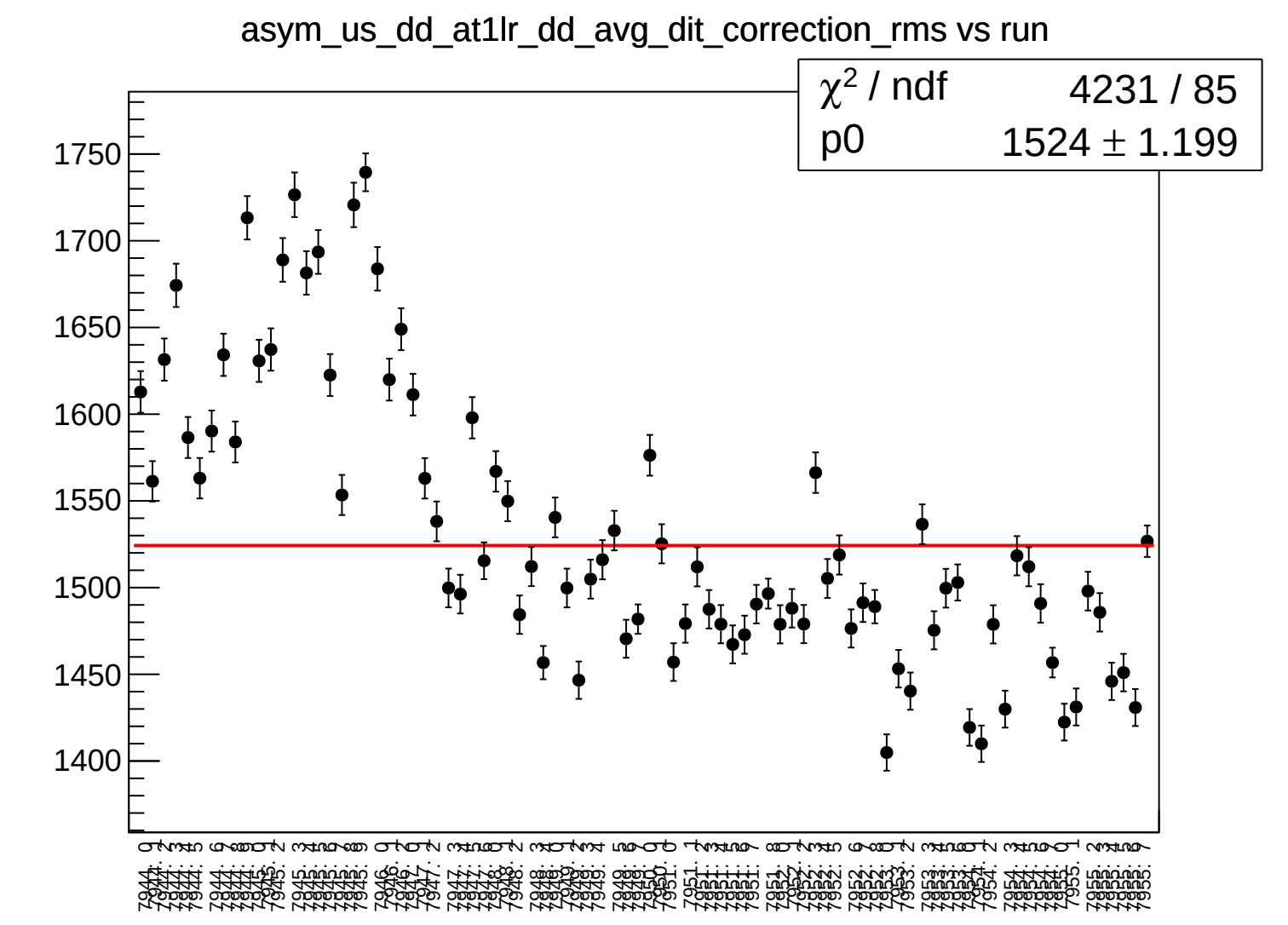

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 76.9 / 85
p0 1780 ± 2402
pull
Entries 86
Mean −430.1
Std Dev 0

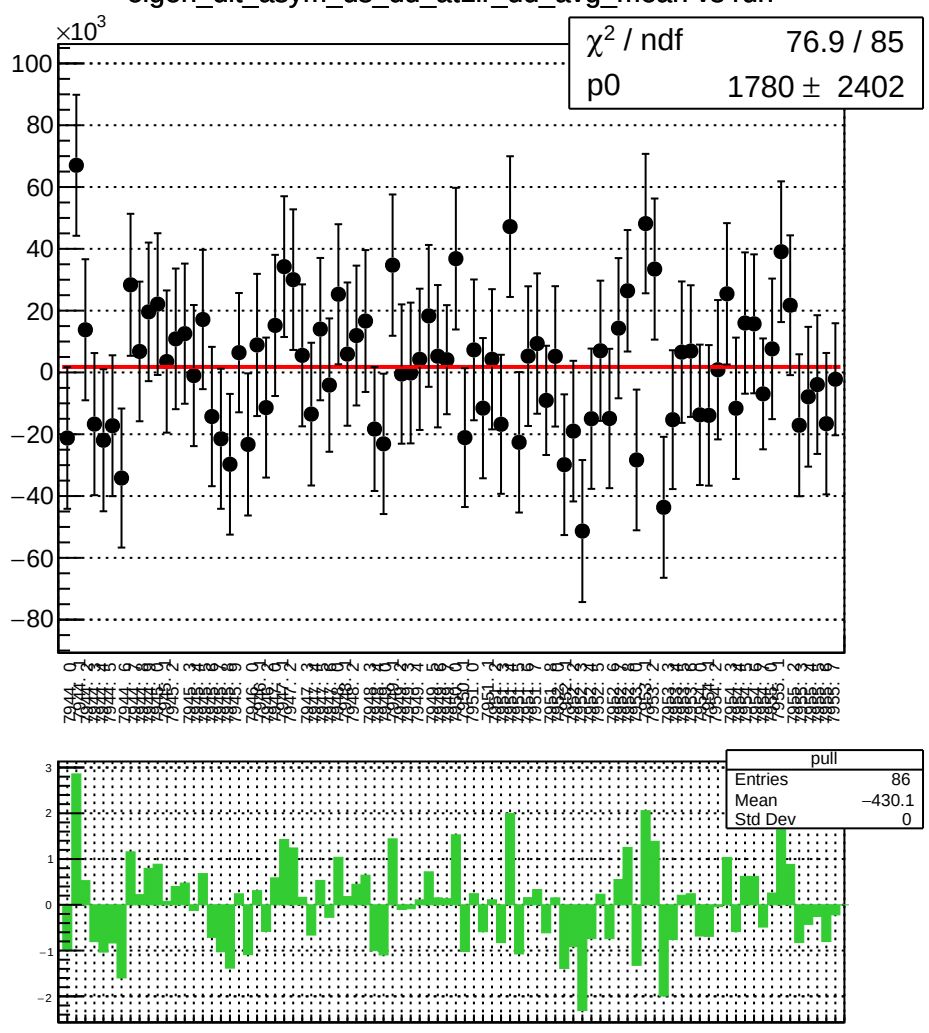

pull1D
Entries 86
Mean 0.002825
Std Dev 0.9456

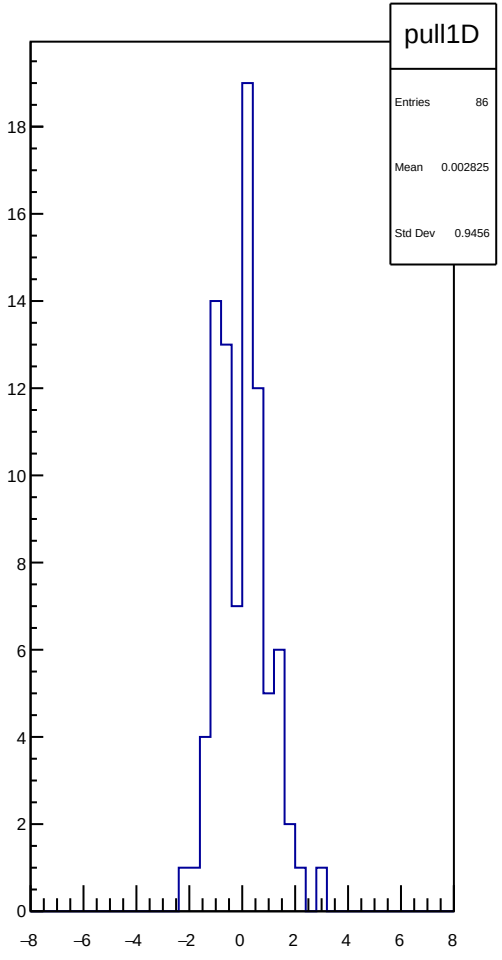

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 81.12 / 85
p0 2162 ± 1.699
2220
2200
2180
2160
2140
2120

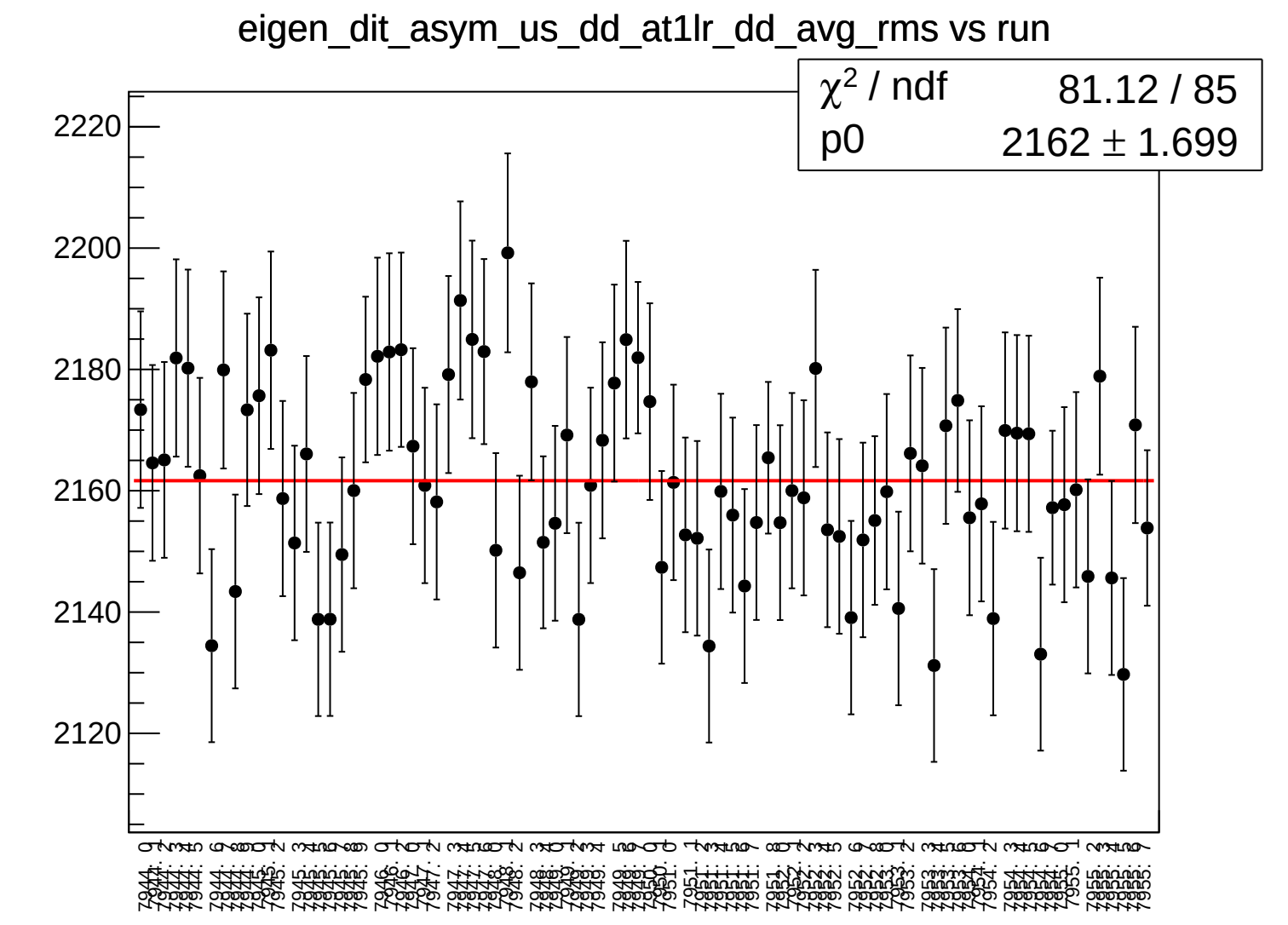

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 89.52 / 85
p0 499.4 ± 1696
pull
Entries 86
Mean −263.4
Std Dev 0

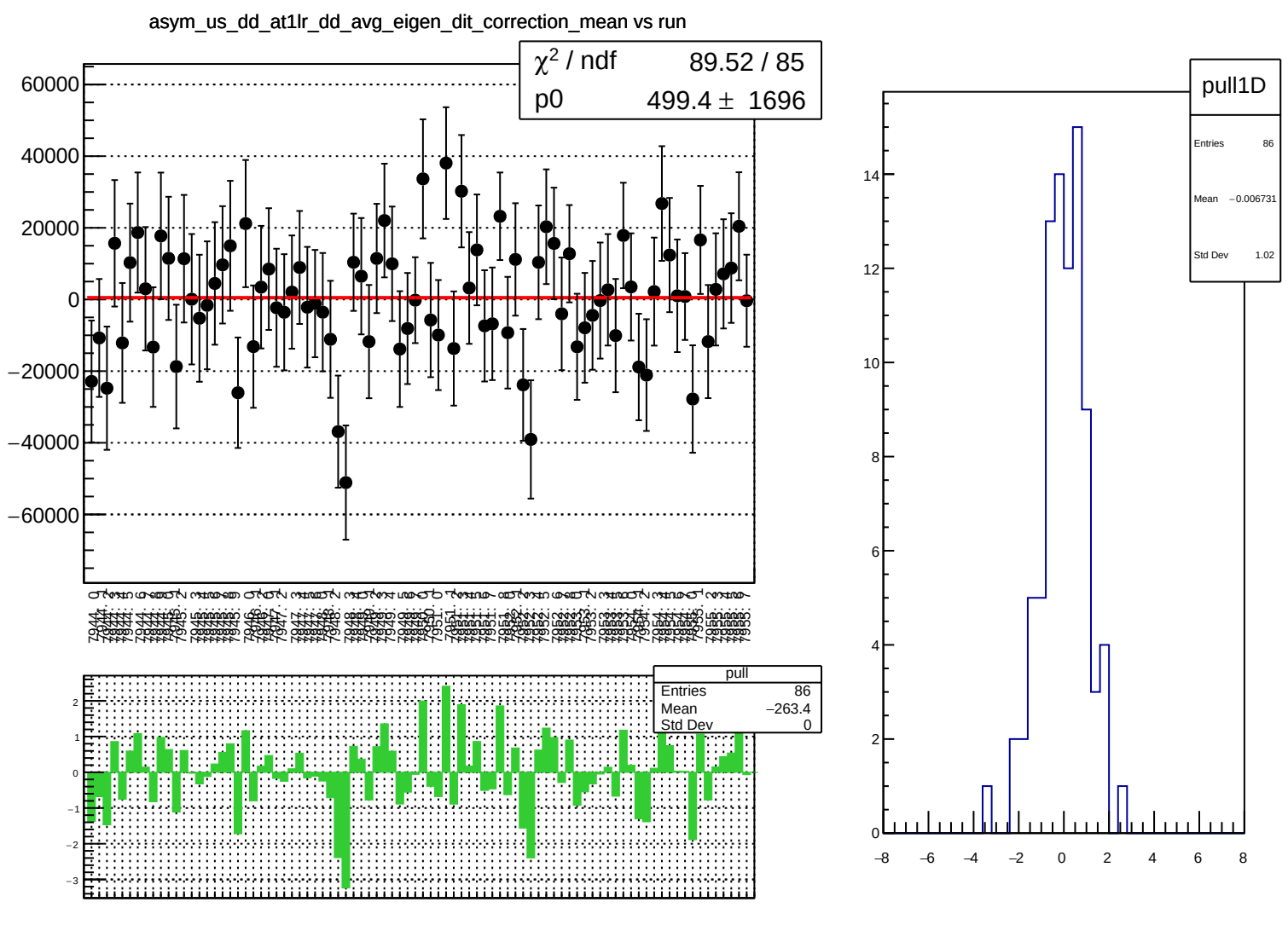

pull1D
Entries 86
Mean −0.006731
Std Dev 1.02

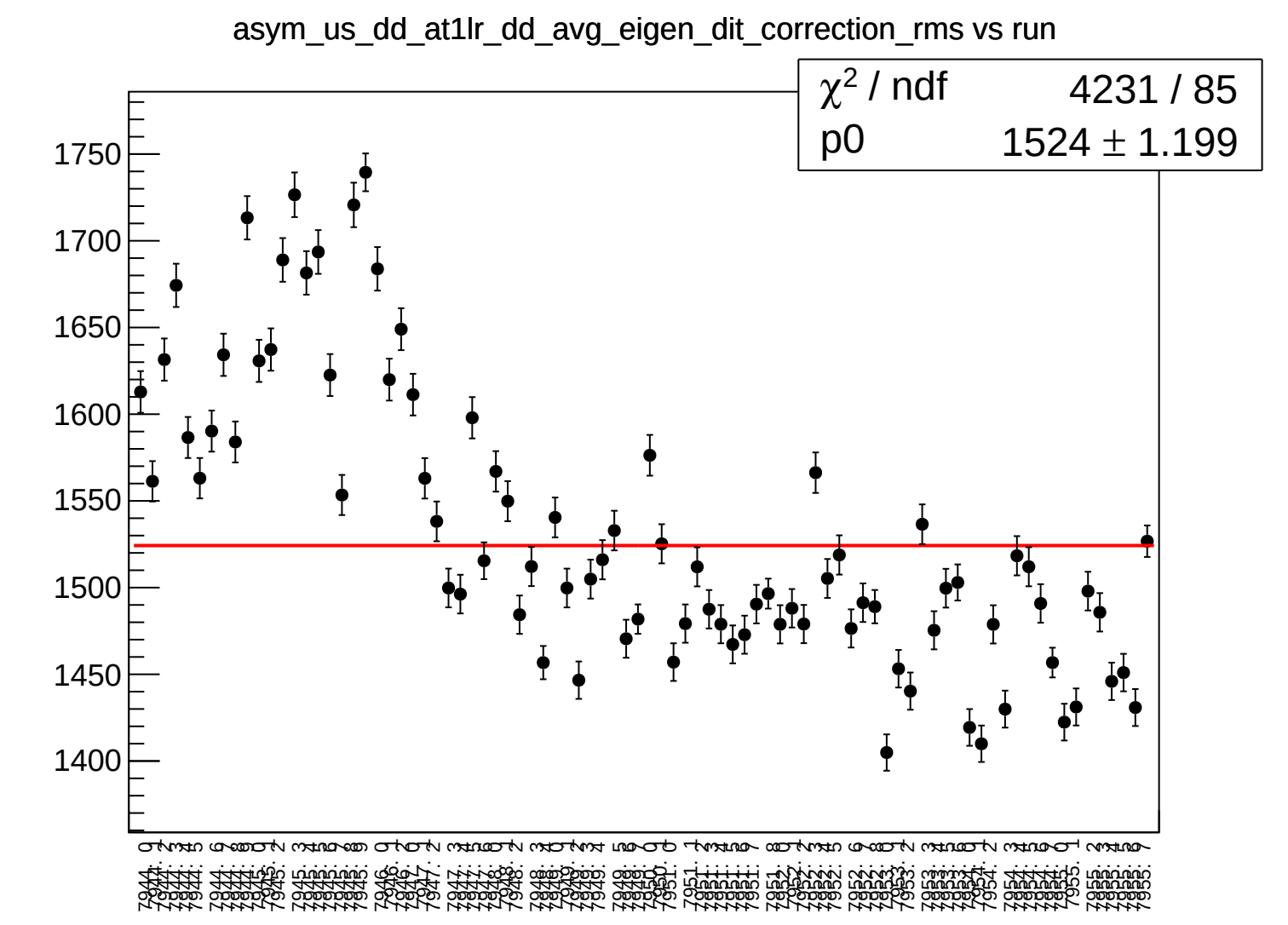

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4231 / 85
p0 1524 ± 1.199
1750
1700
1650
1600
1550
1500
1450
1400

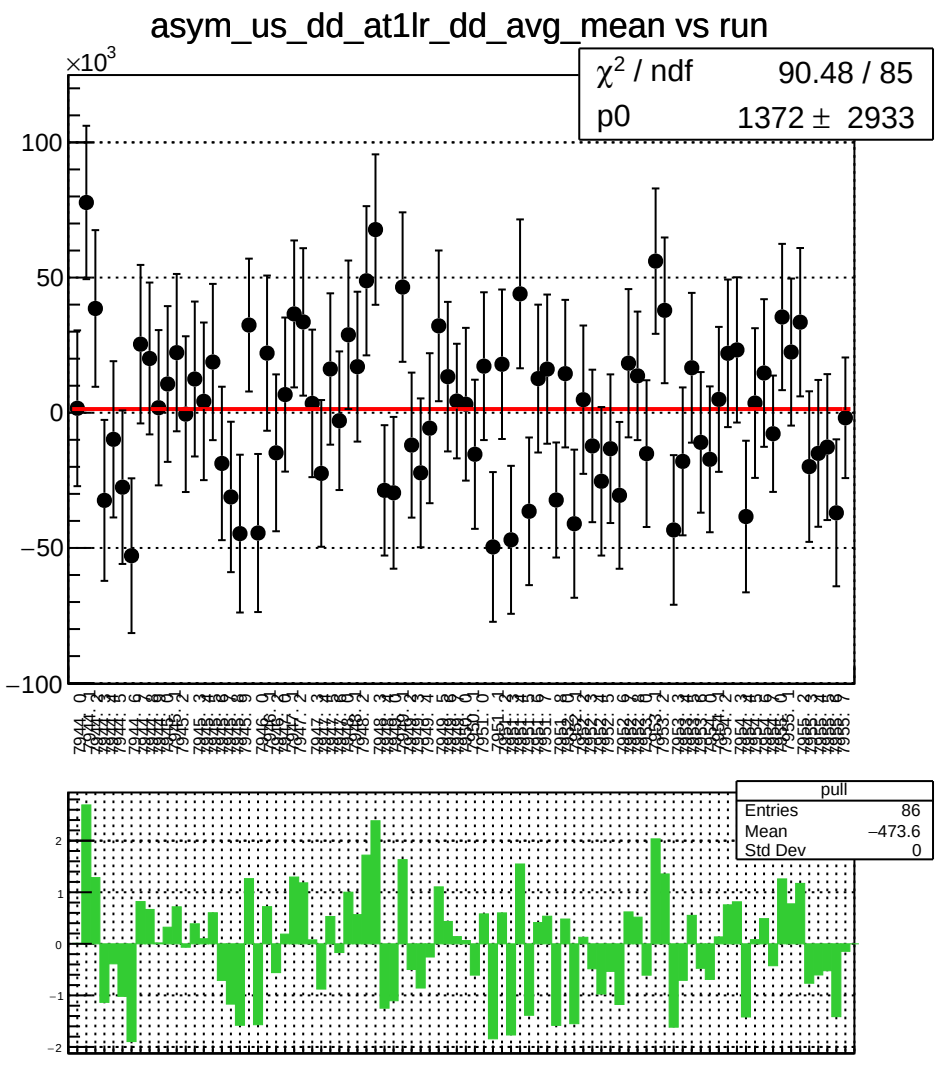

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 76.9 / 85
p0 1780 ± 2402
pull
Entries 86
Mean −430.1
Std Dev 0

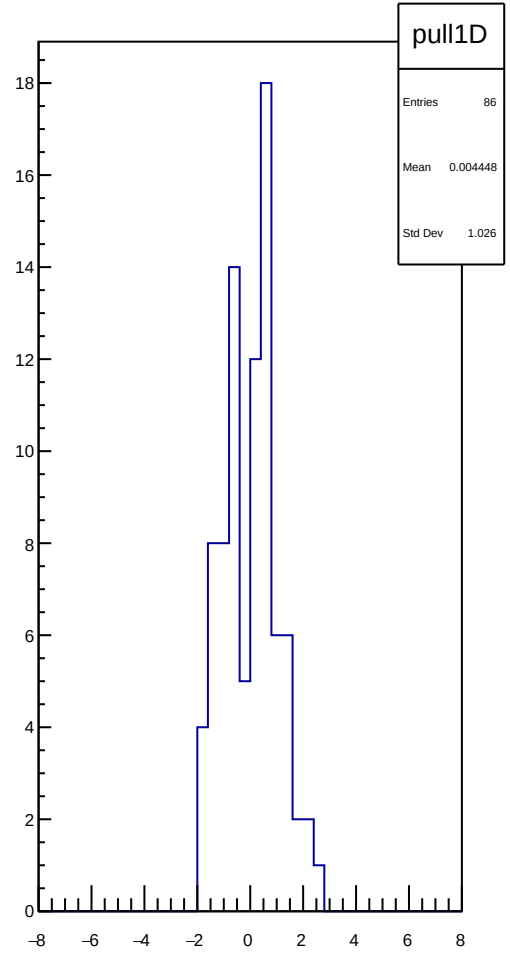

pull1D
Entries 86
Mean 0.002825
Std Dev 0.9456

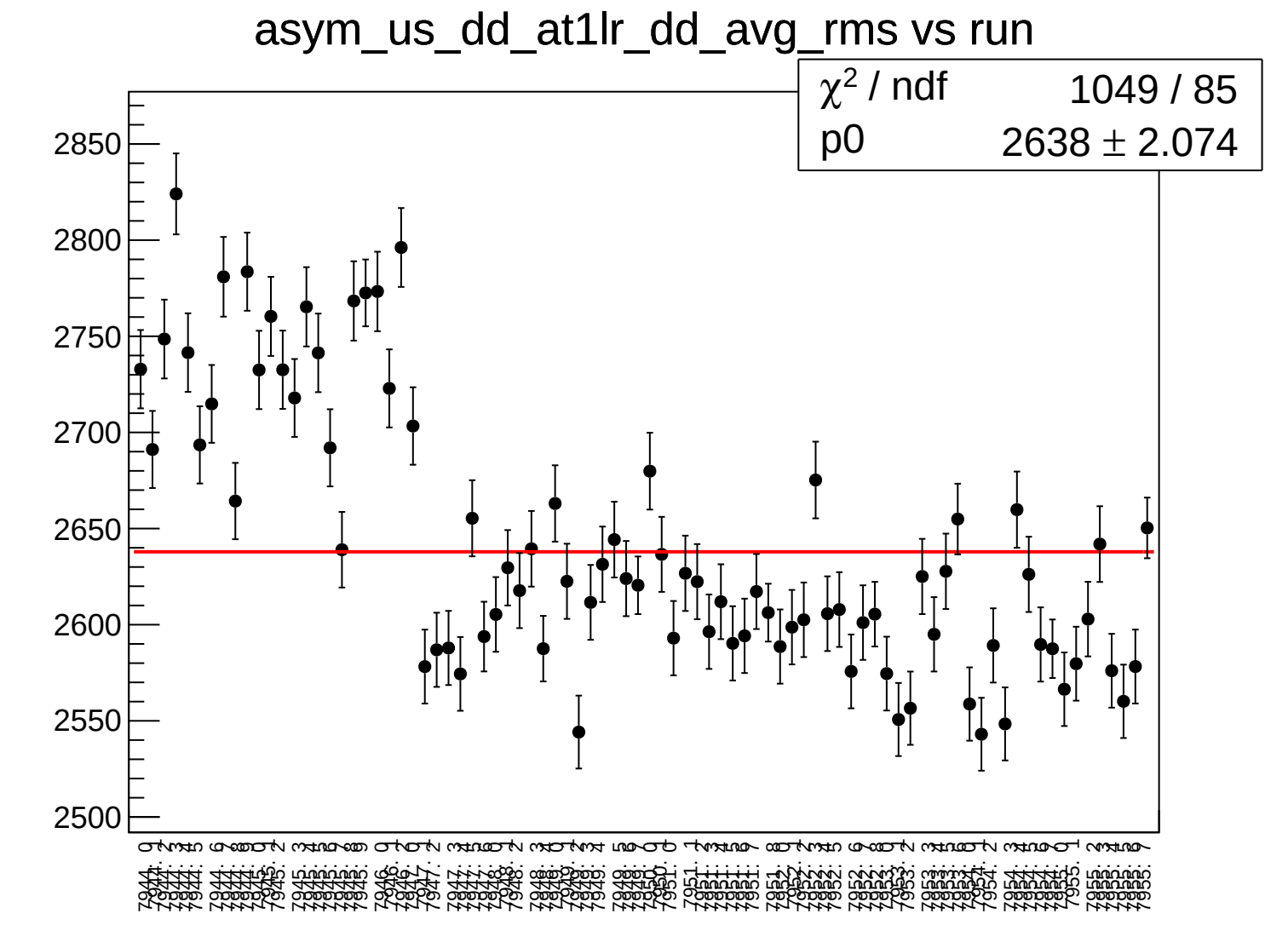

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 81.12 / 85
p0 2162 ± 1.699
2220
2200
2180
2160
2140
2120

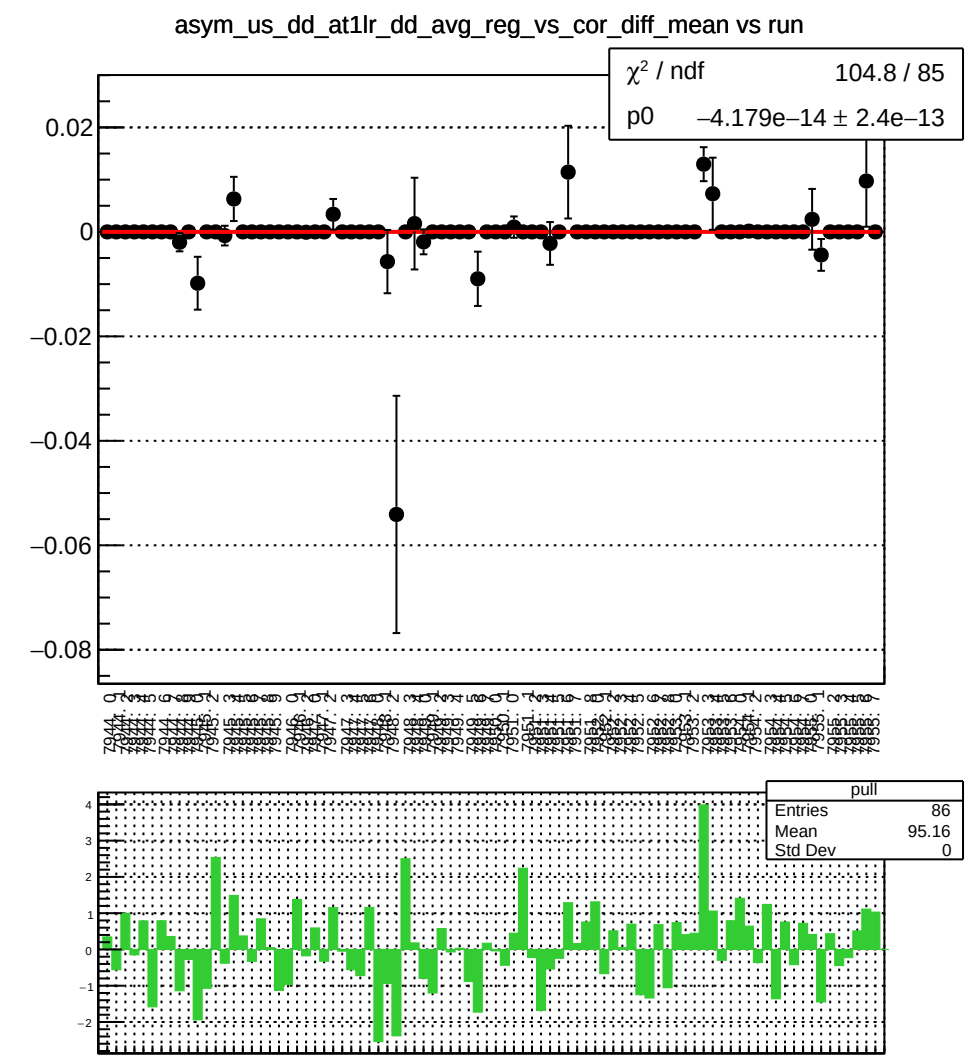

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.52 / 85
p0 499.4 ± 1696
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −263.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.006731
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

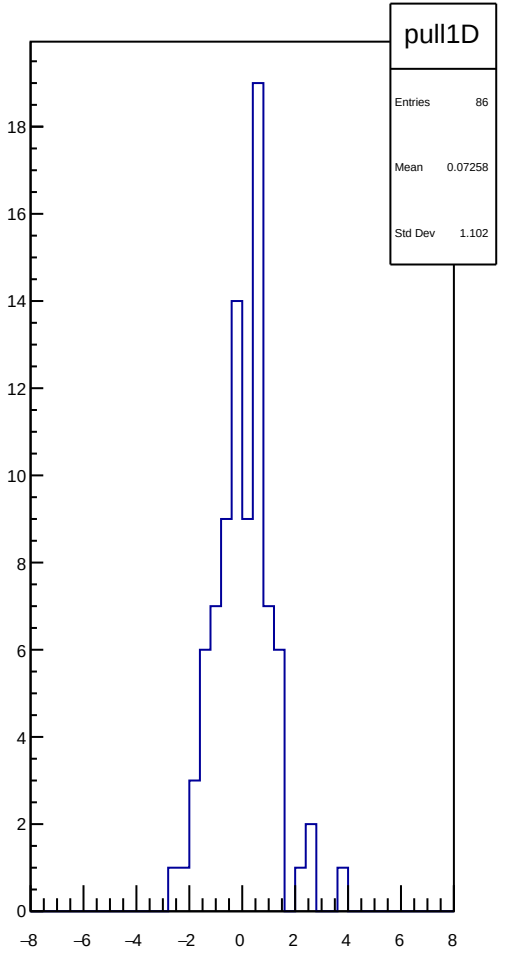

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4231 / 85
p0 1524 ± 1.199
1750
1700
1650
1600
1550
1500
1450
1400

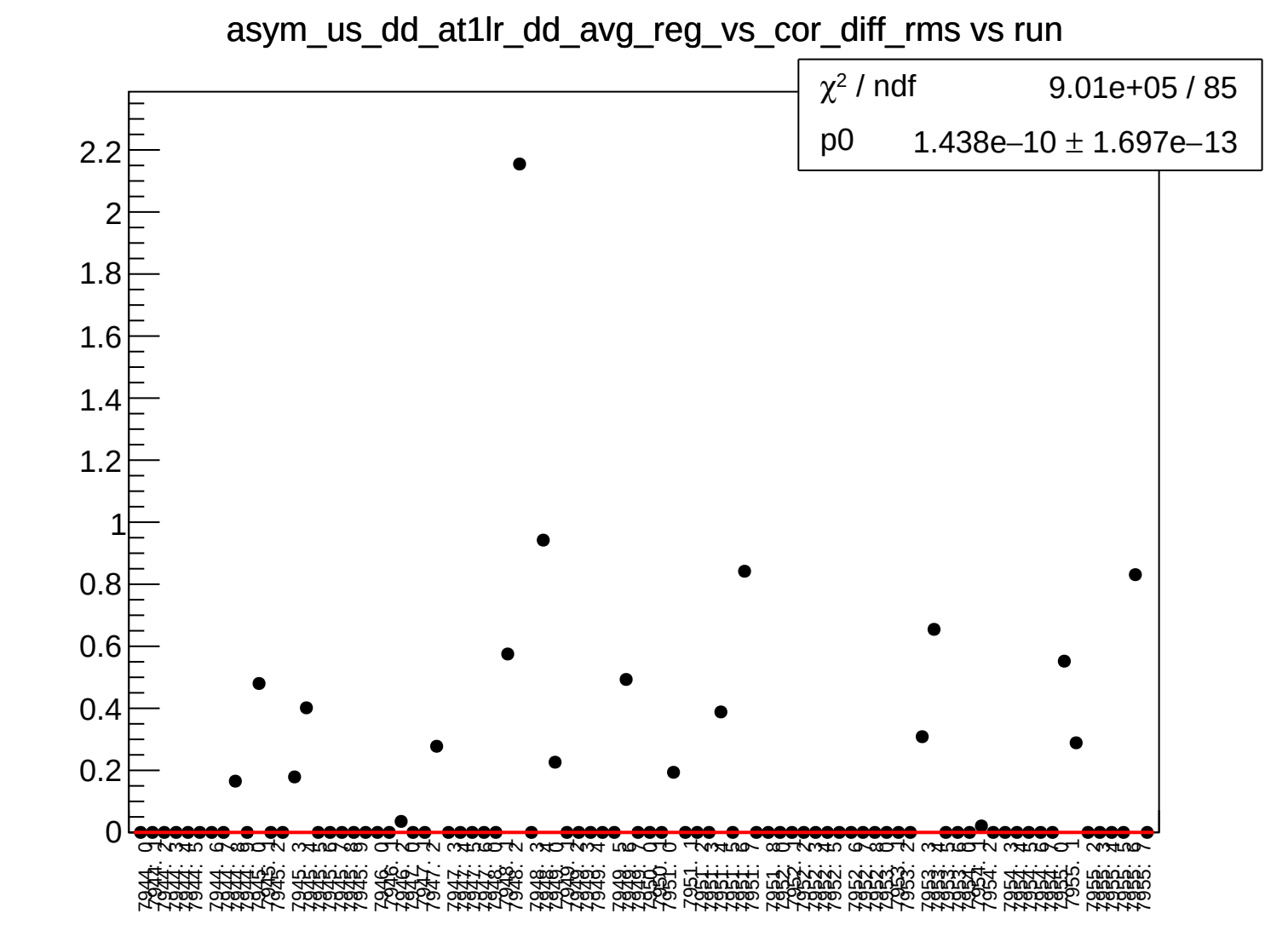

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 90.48 / 85
p0 1372 ± 2933
100
50
0
−50
−100
pull
Entries 86
Mean −473.6
Std Dev 0
2
1
0
−1
−2

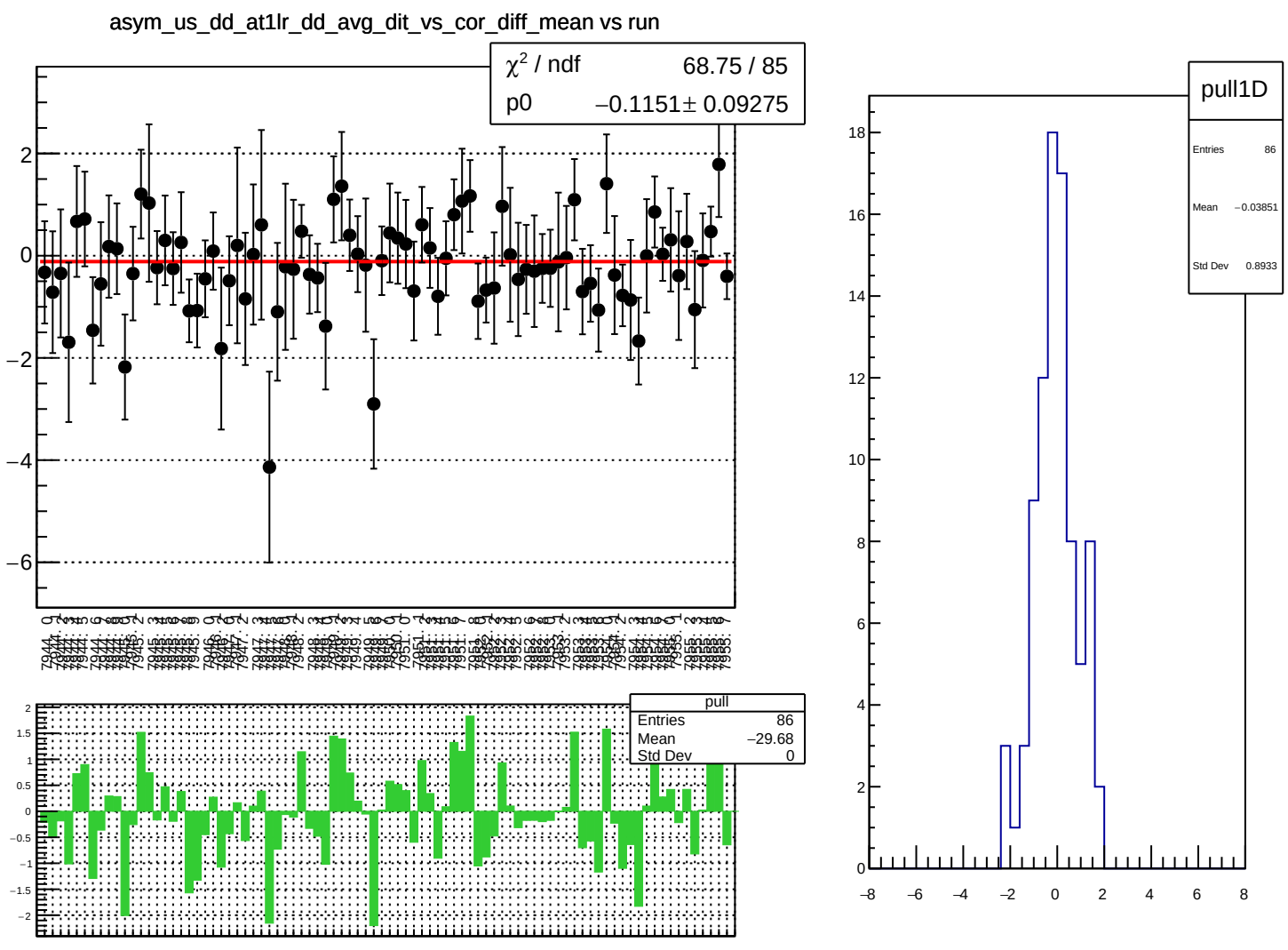

pull1D
Entries 86
Mean 0.004448
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

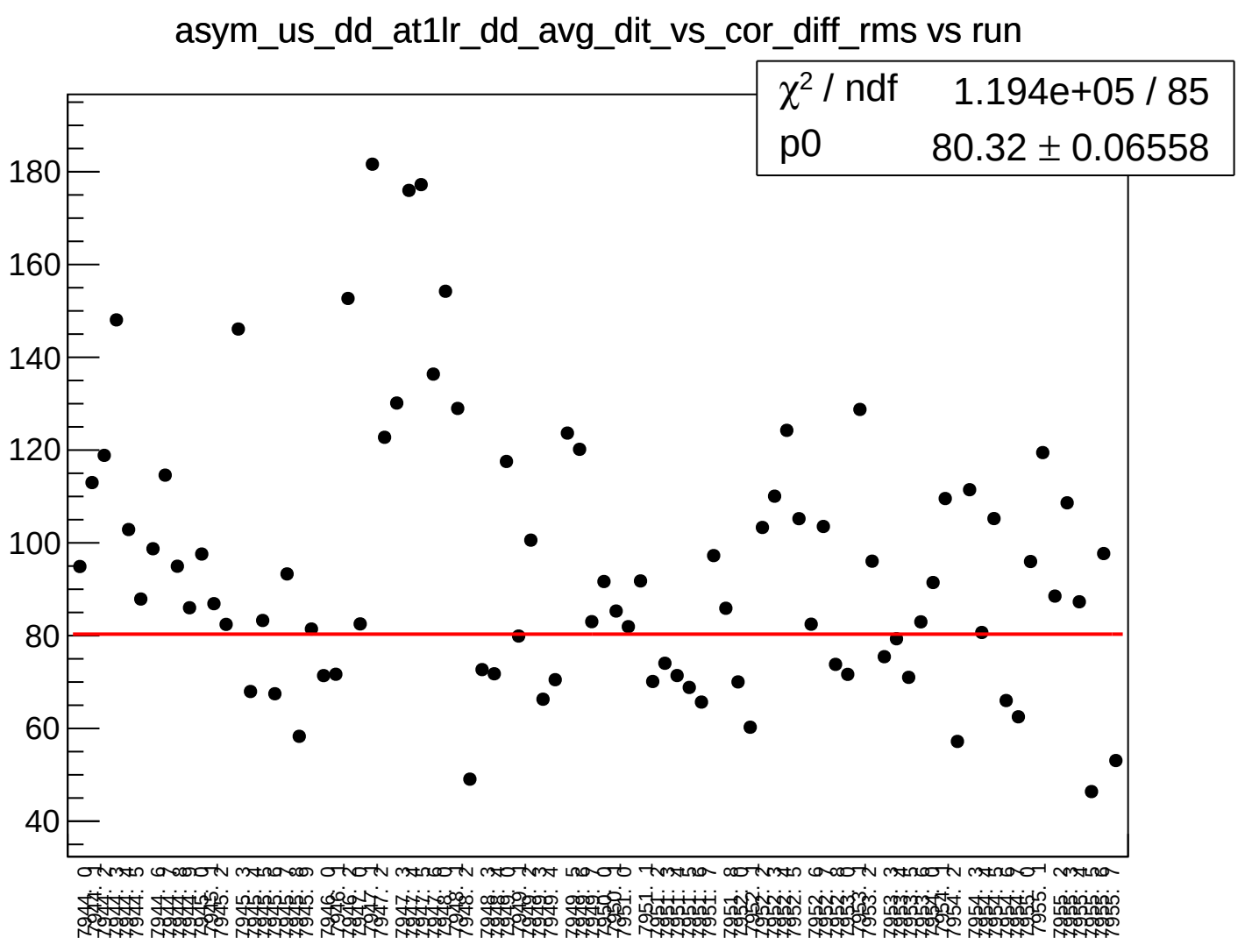

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1049 / 85
p0 2638 ± 2.074
2850
2800
2750
2700
2650
2600
2550
2500

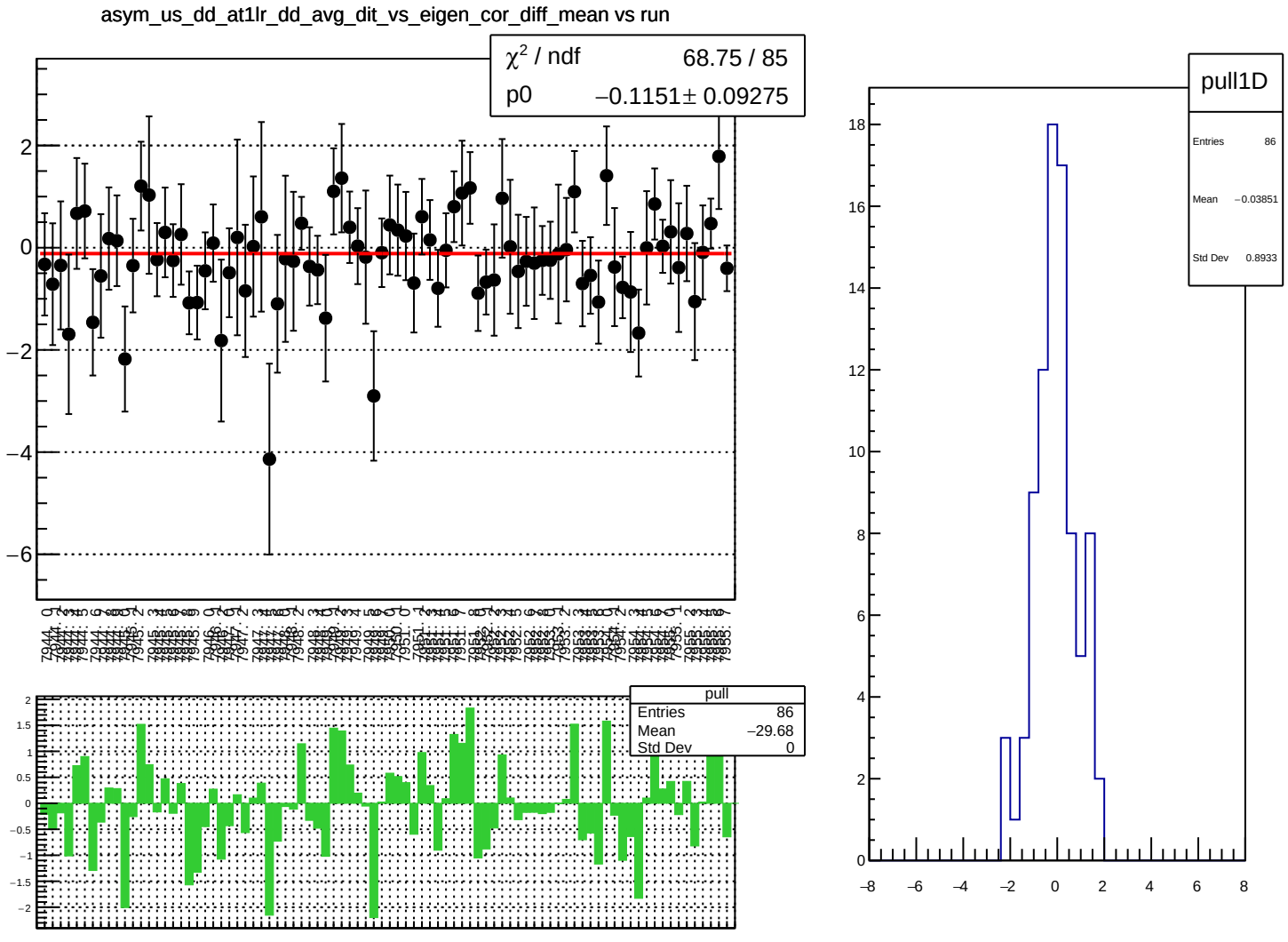

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 85
p0 −4.179e−14 ± 2.4e−13
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean 95.16
Std Dev 0
4
3
2
1
0
−1
−2

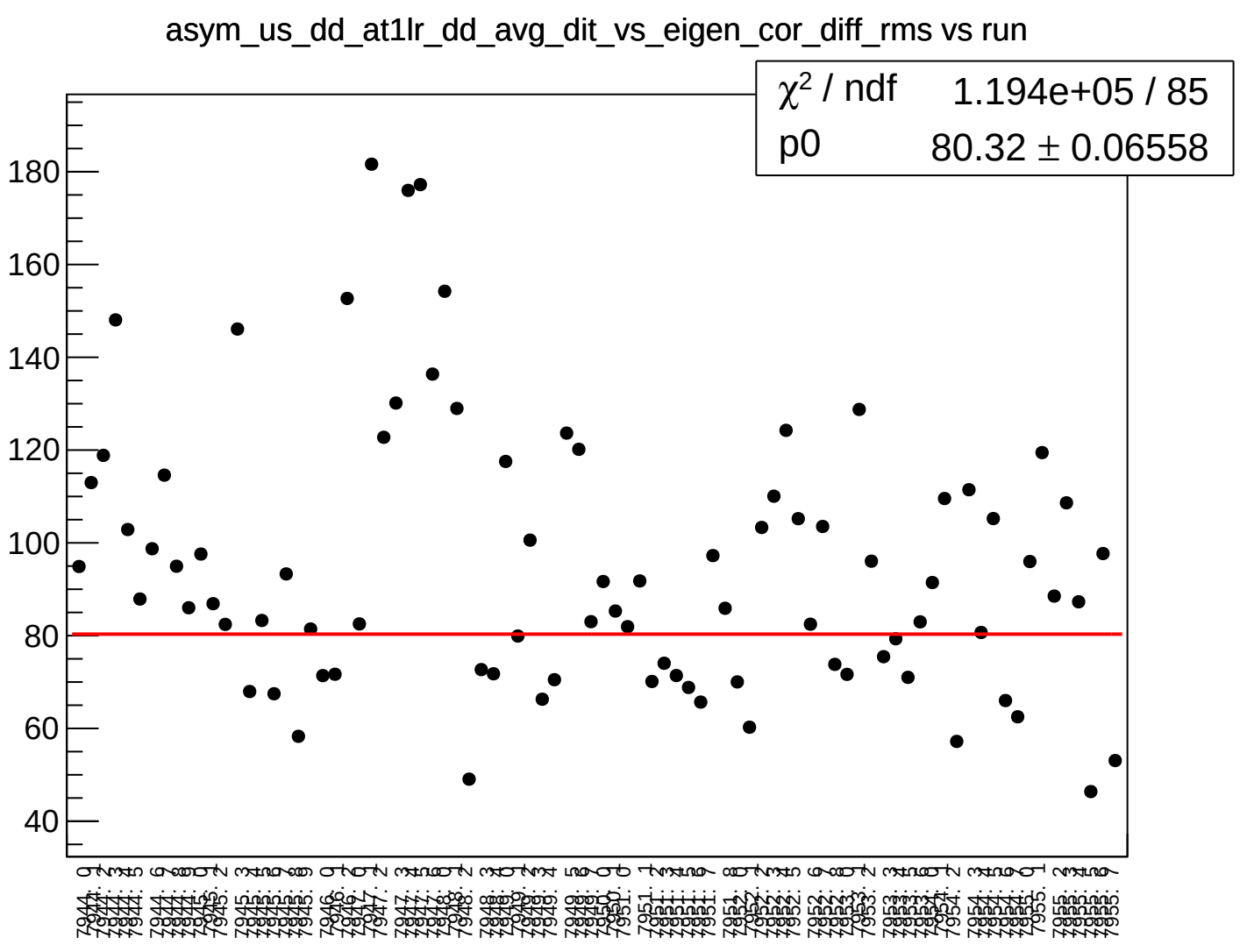

pull1D
Entries 86
Mean 0.07258
Std Dev 1.102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

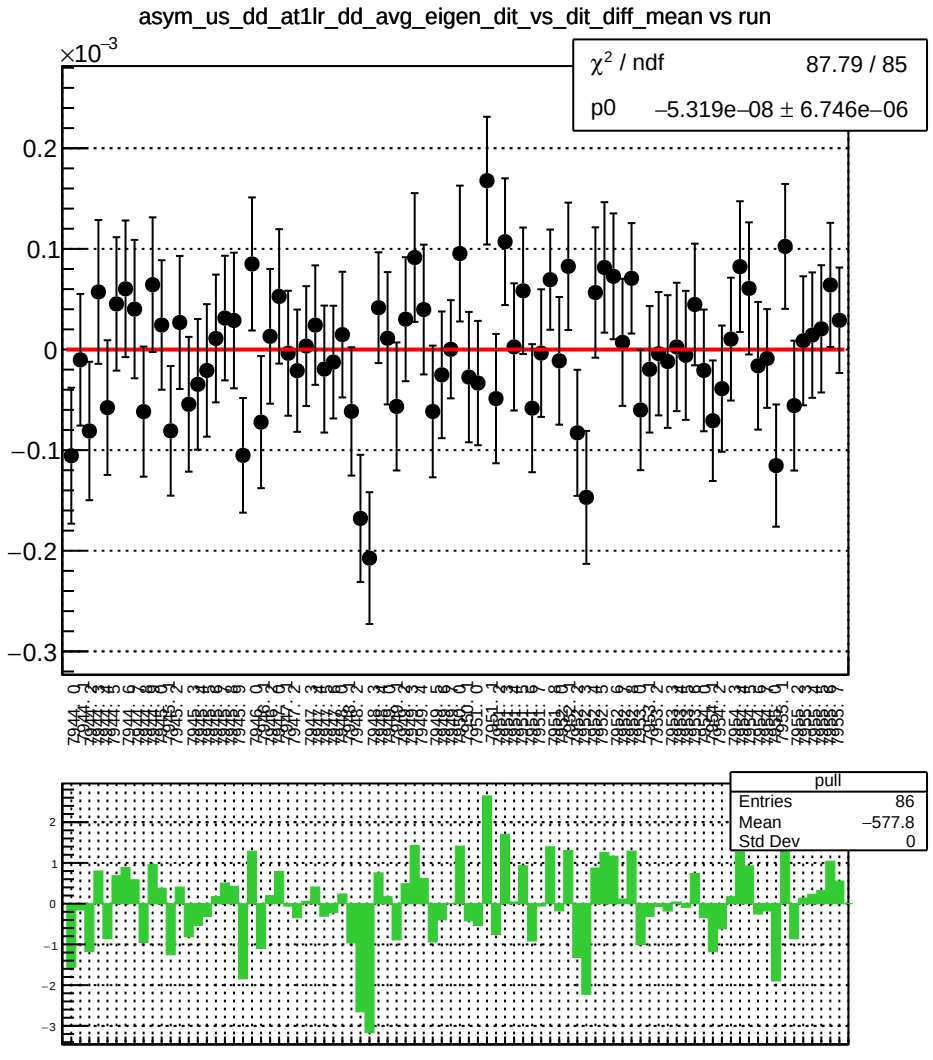

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.01e+05 / 85
p0 1.438e−10 ± 1.697e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

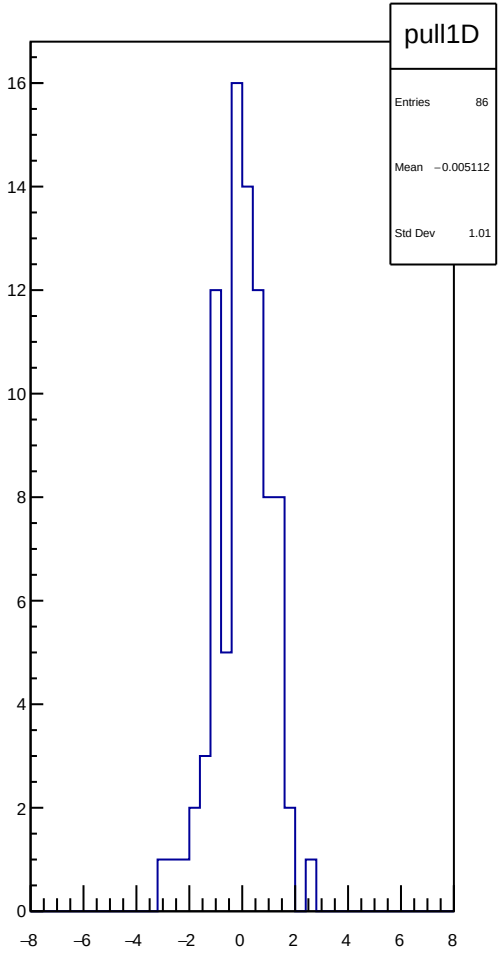

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.75 / 85
p0 −0.1151± 0.09275
pull
Entries 86
Mean −29.68
Std Dev 0
pull1D
Entries 86
Mean −0.03851
Std Dev 0.8933

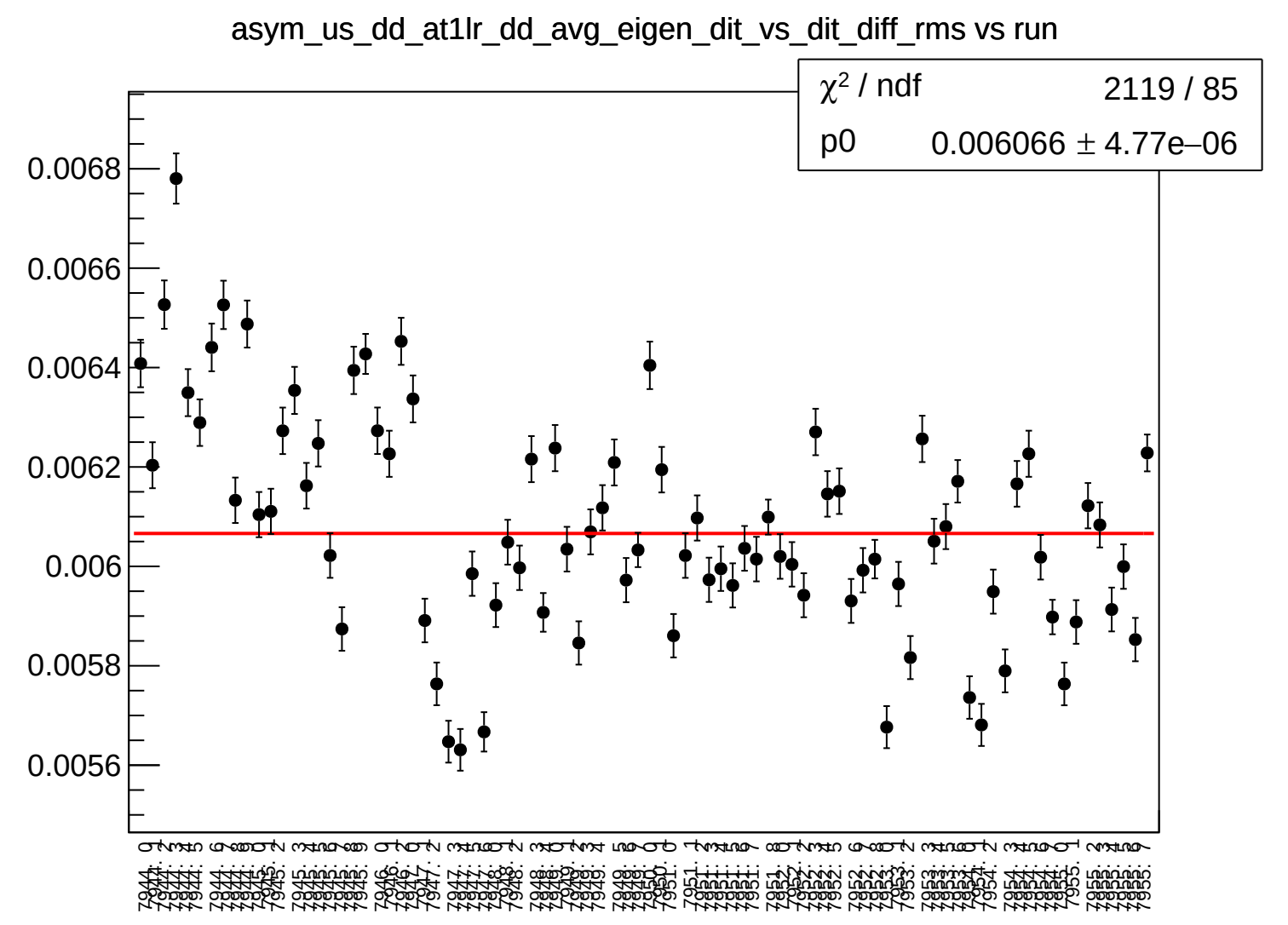

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.194e+05 / 85
p0 80.32 ± 0.06558
180
160
140
120
100
80
60
40

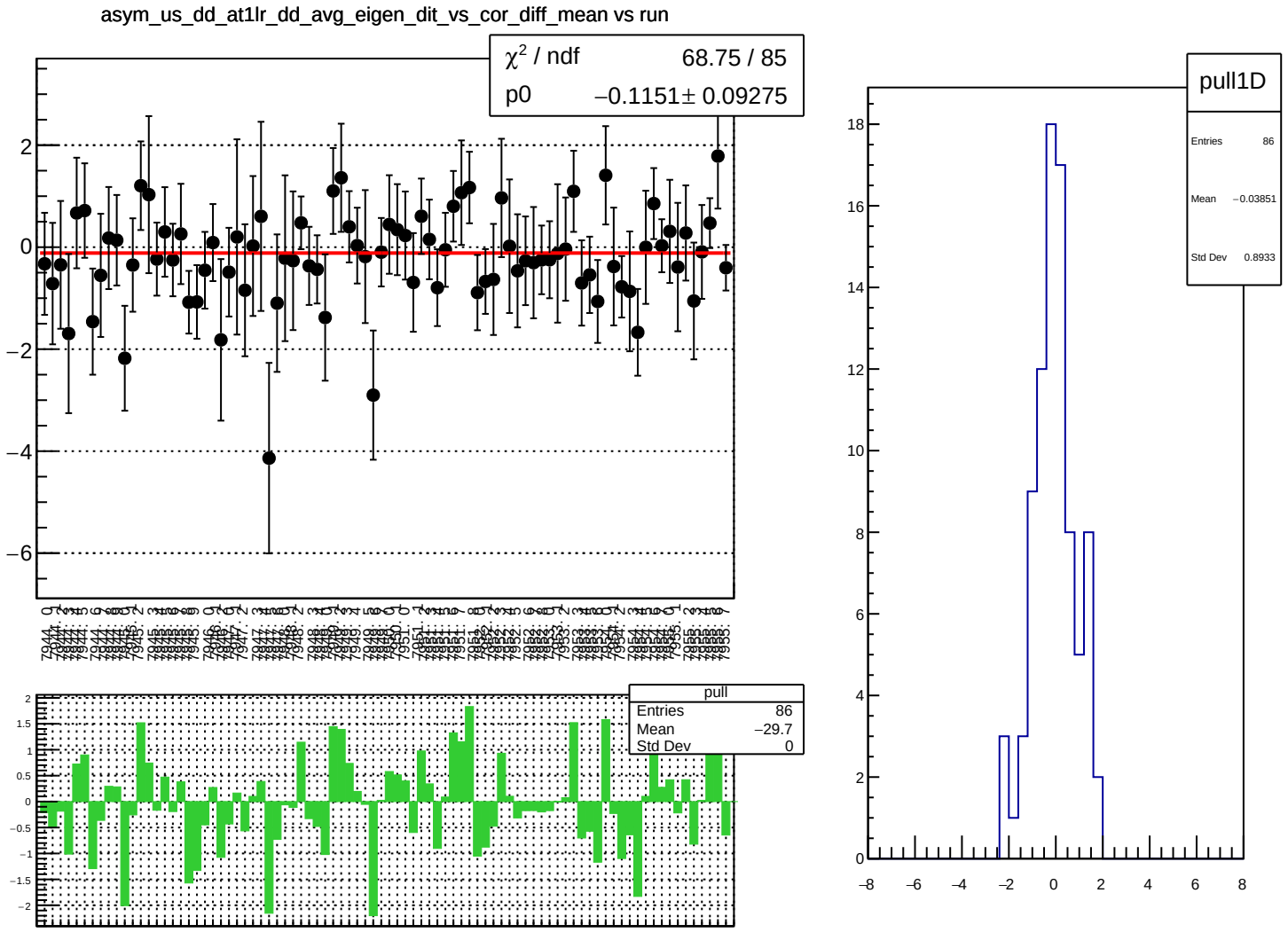

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.75 / 85
p0 −0.1151± 0.09275
pull
Entries 86
Mean −29.68
Std Dev 0
pull1D
Entries 86
Mean −0.03851
Std Dev 0.8933

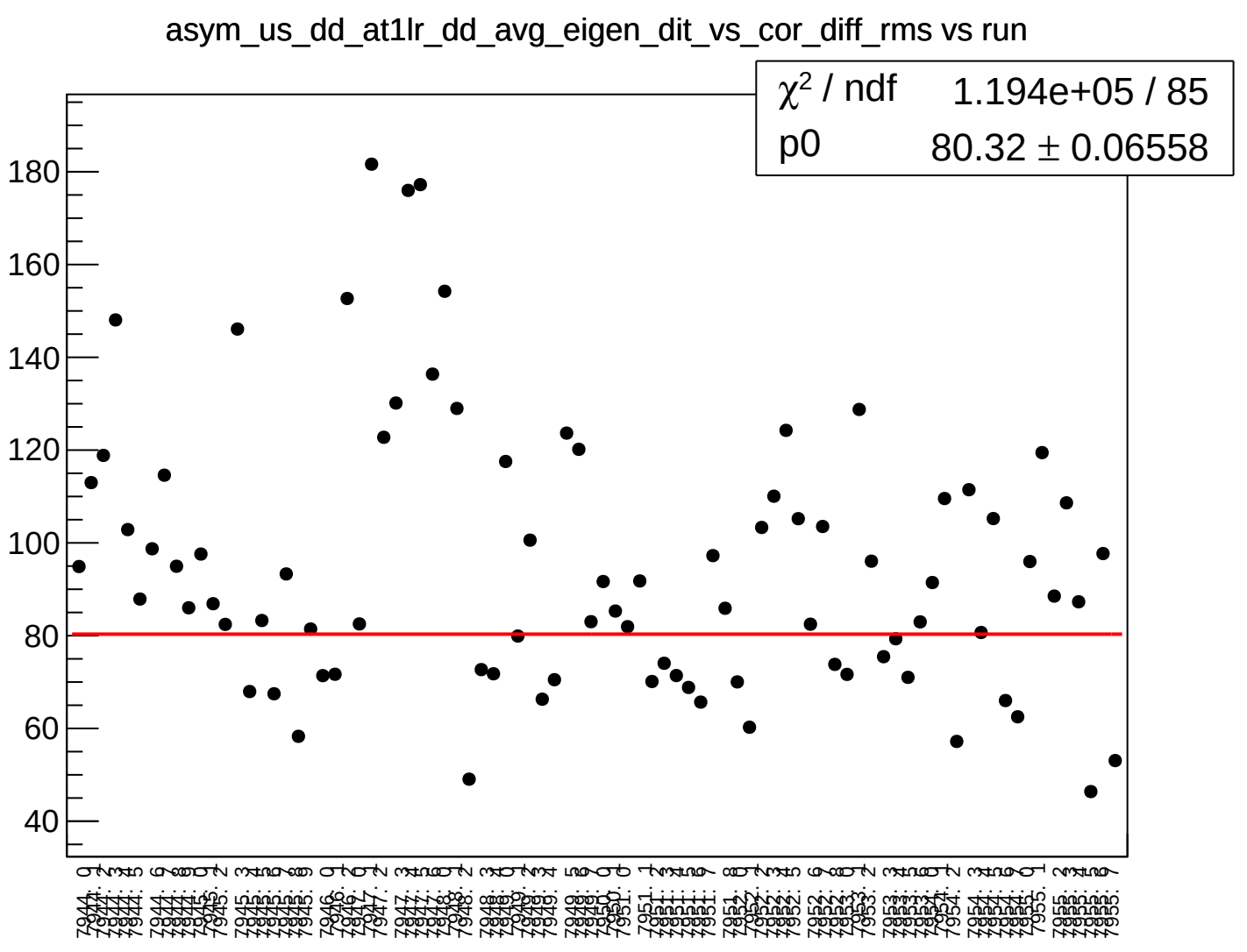

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.194e+05 / 85
p0 80.32 ± 0.06558
180
160
140
120
100
80
60
40

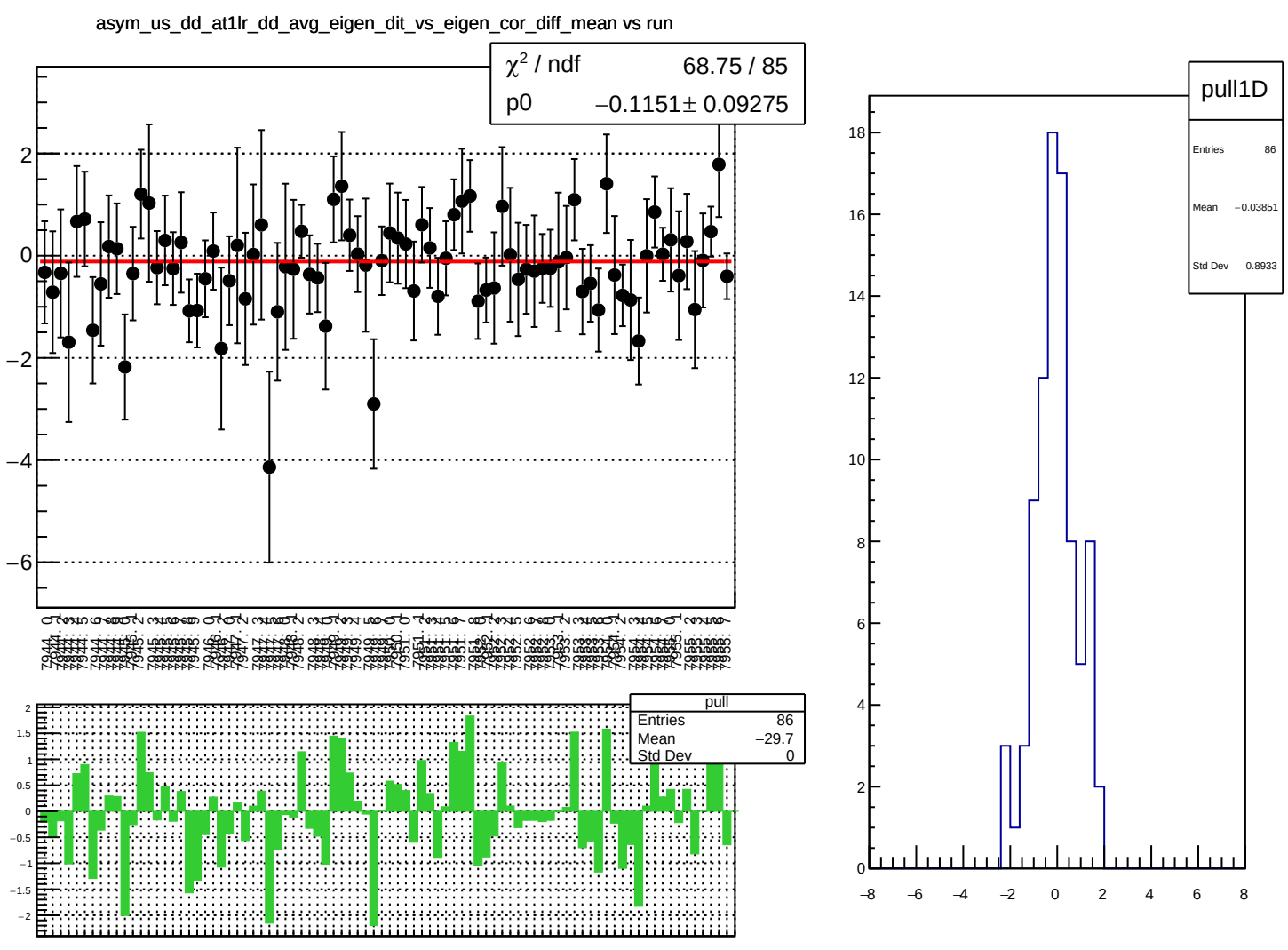

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.79 / 85
p0 −5.319e−08 ± 6.746e−06
pull
Entries 86
Mean −577.8
Std Dev 0

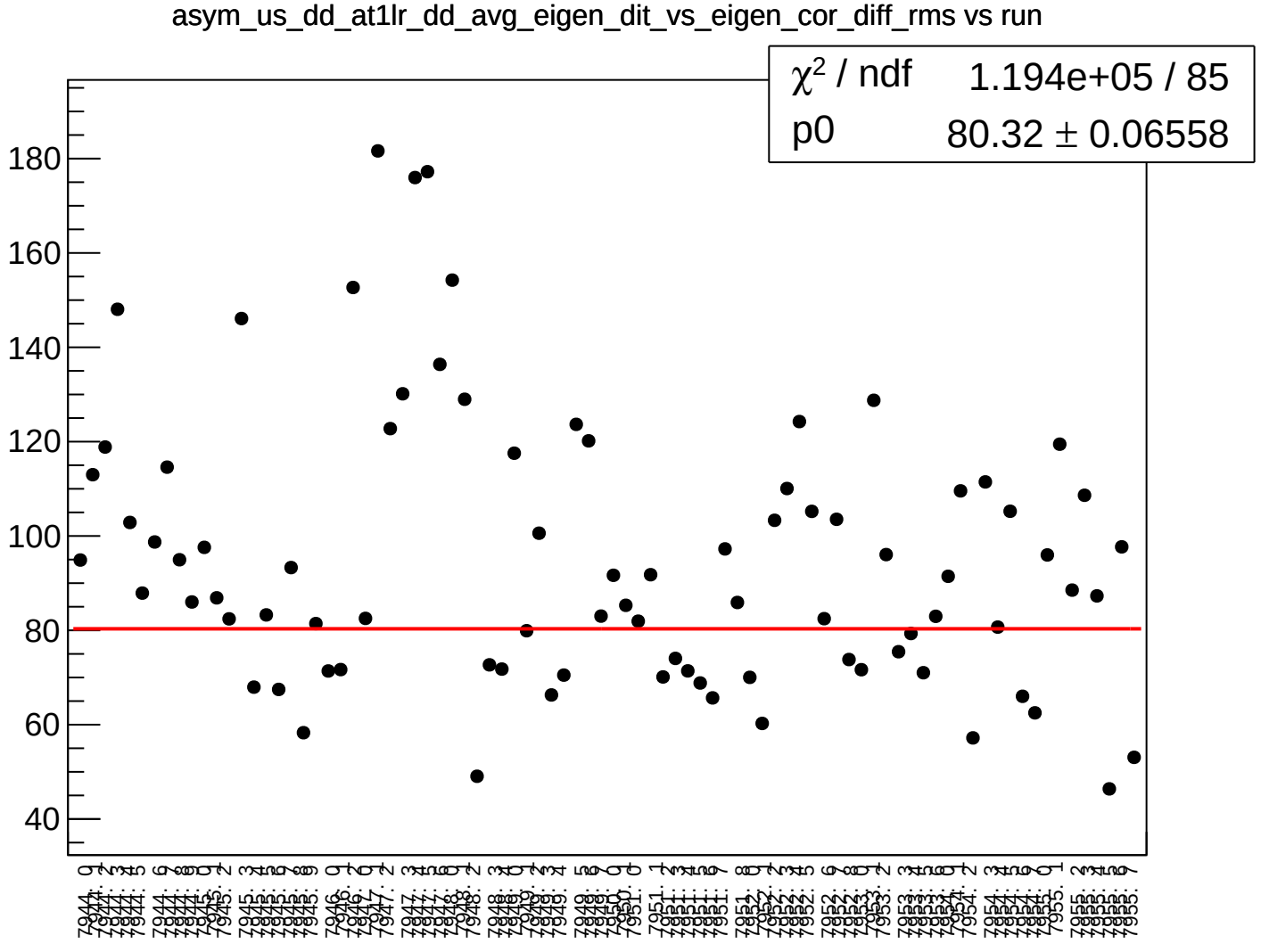

pull1D
Entries 86
Mean −0.005112
Std Dev 1.01

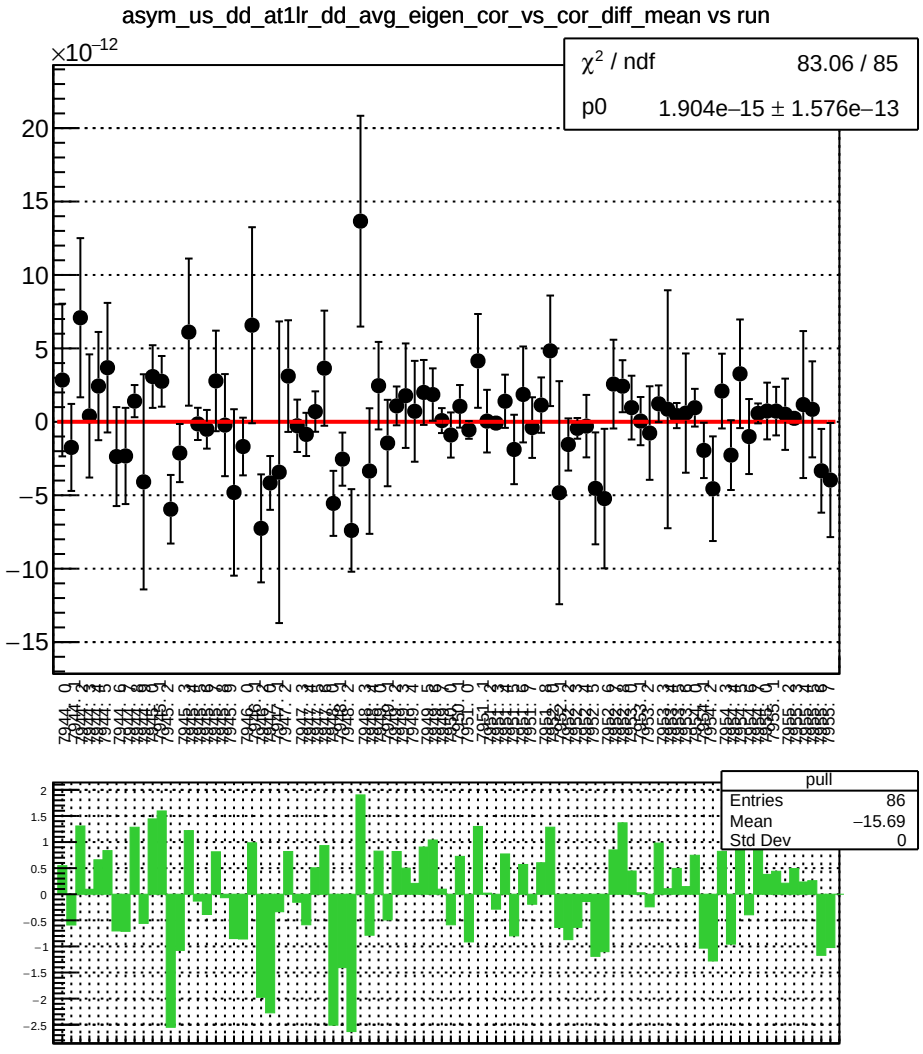

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2119 / 85
p0 0.006066 ± 4.77e–06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

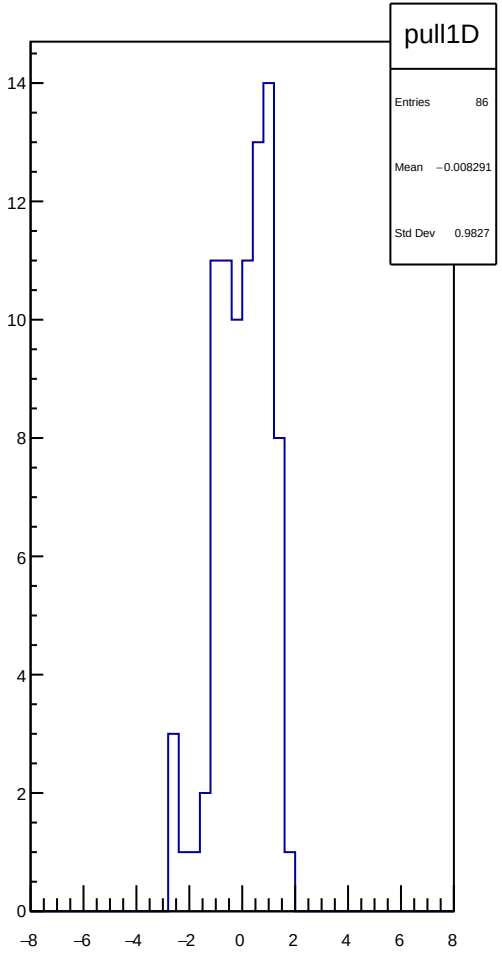

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.75 / 85
p0 −0.1151± 0.09275
pull
Entries 86
Mean −29.7
Std Dev 0
pull1D
Entries 86
Mean −0.03851
Std Dev 0.8933

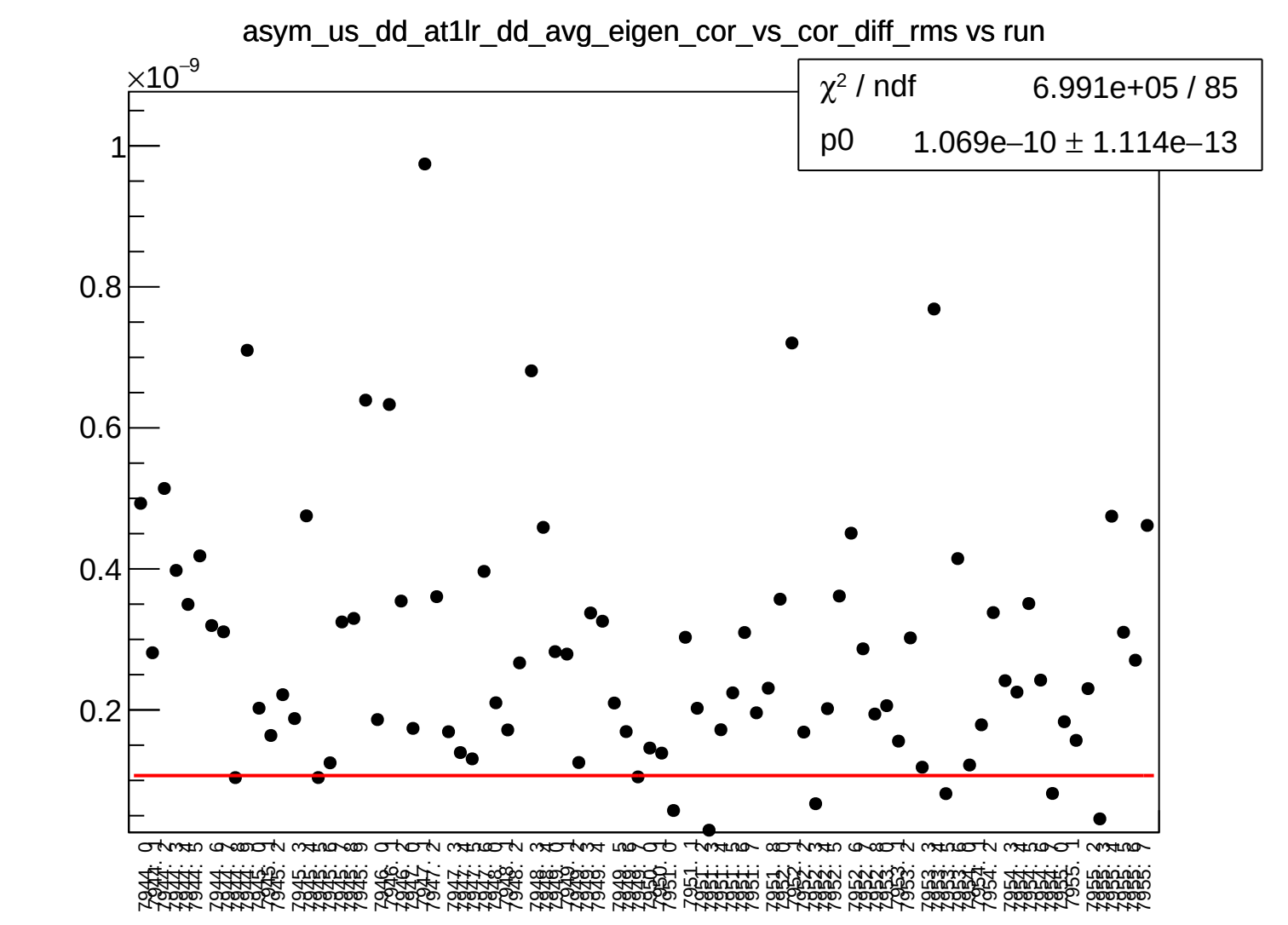

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.194e+05 / 85
p0 80.32 ± 0.06558
180
160
140
120
100
80
60
40

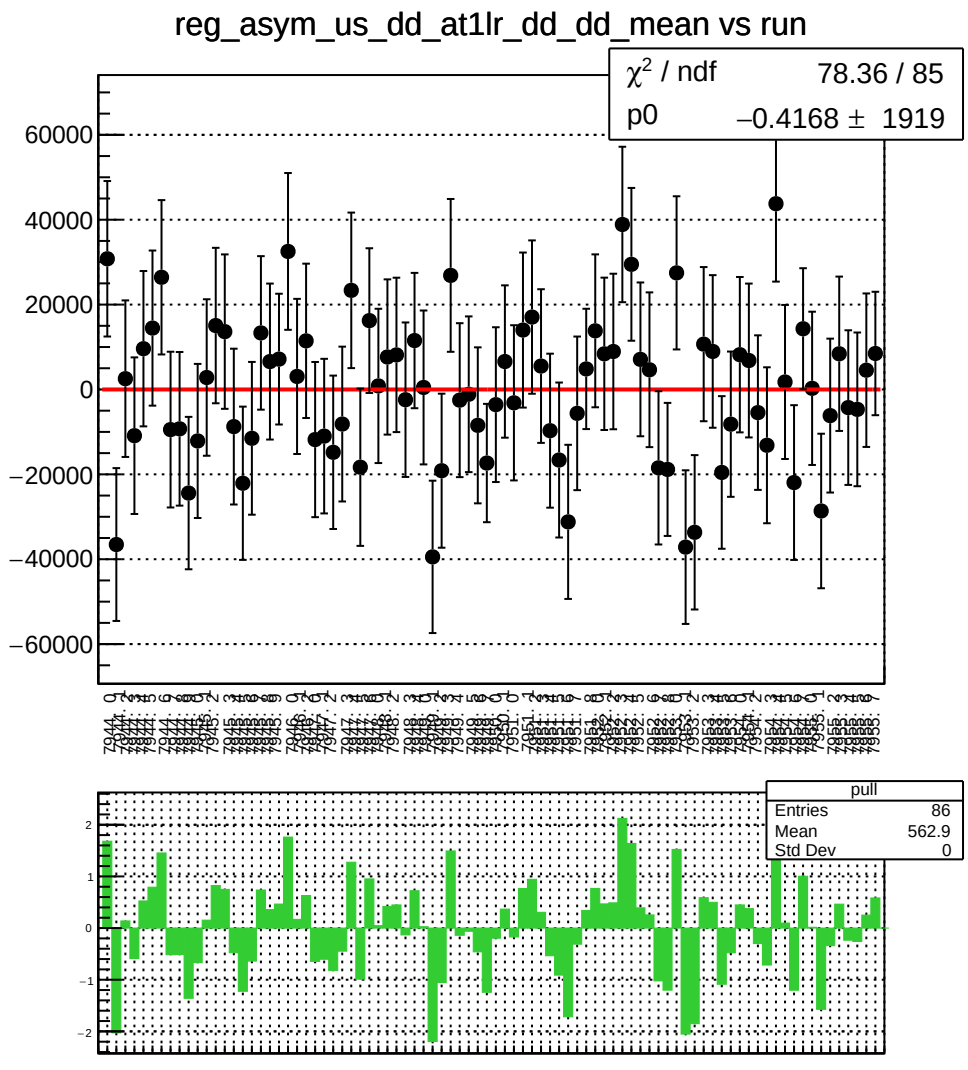

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.75 / 85
p0 −0.1151± 0.09275
pull
Entries 86
Mean −29.7
Std Dev 0
pull1D
Entries 86
Mean −0.03851
Std Dev 0.8933

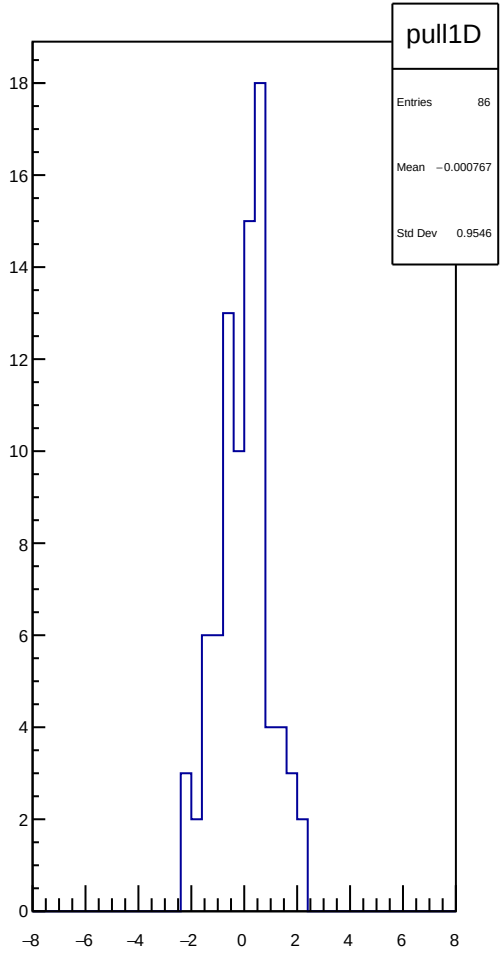

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.194e+05 / 85
p0 80.32 ± 0.06558
180
160
140
120
100
80
60
40

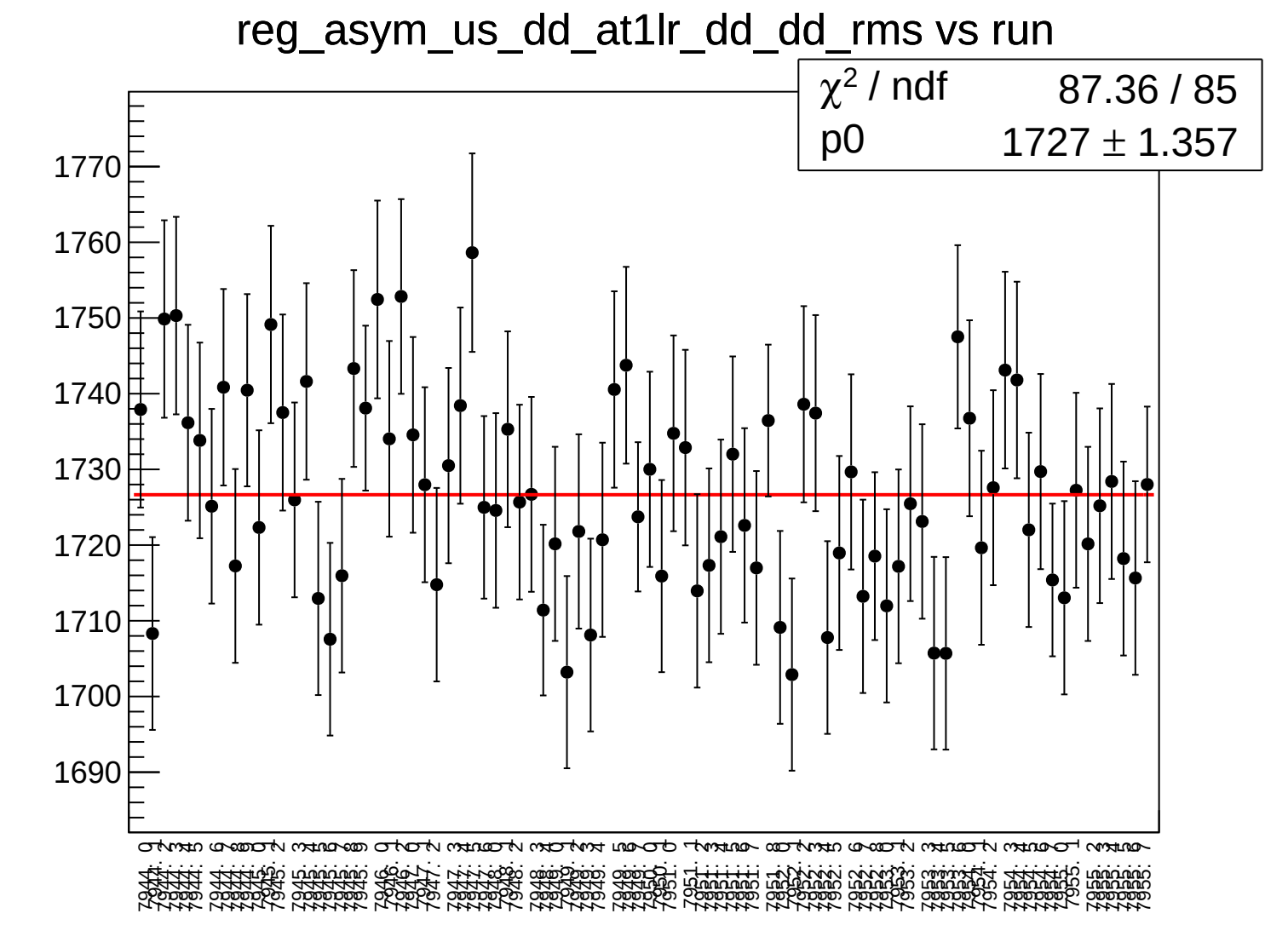

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.06 / 85
p0 1.904e−15 ± 1.576e−13
pull
Entries 86
Mean −15.69
Std Dev 0

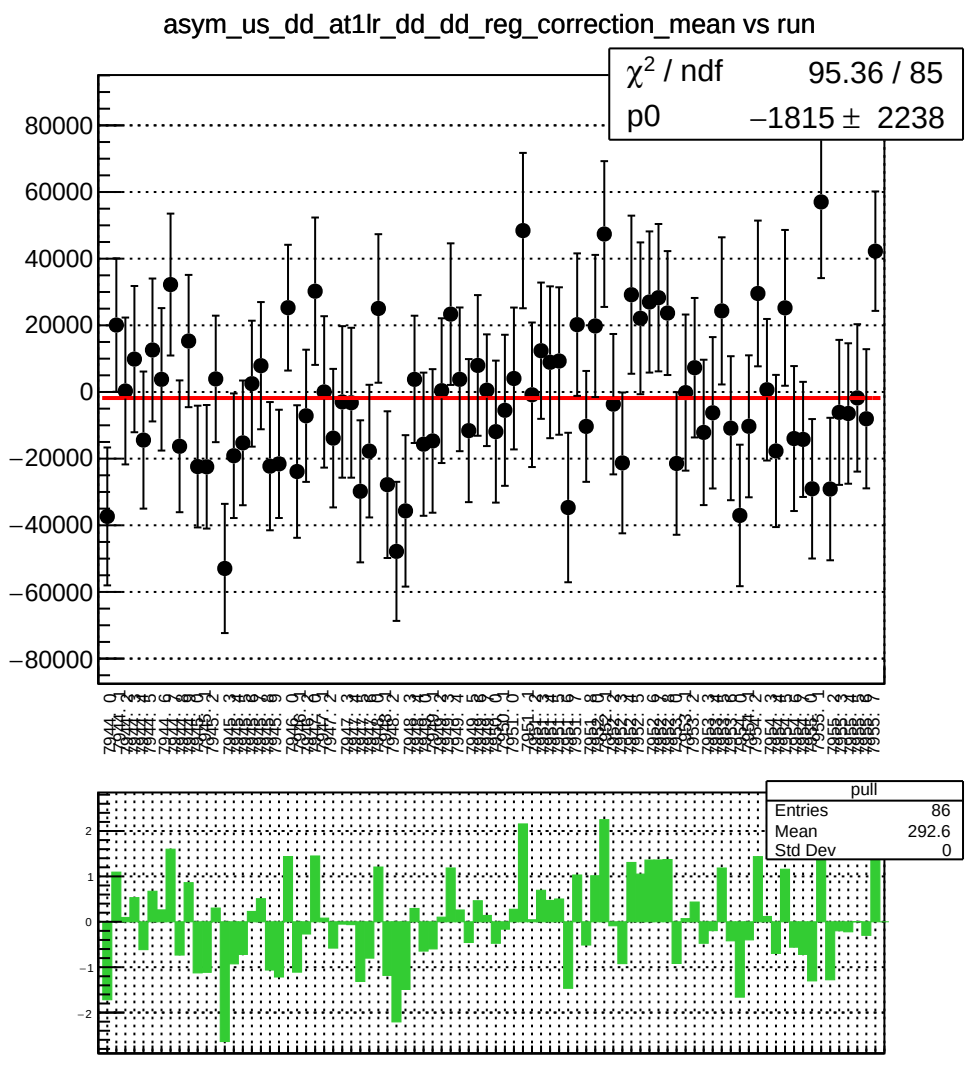

pull1D
Entries 86
Mean −0.008291
Std Dev 0.9827

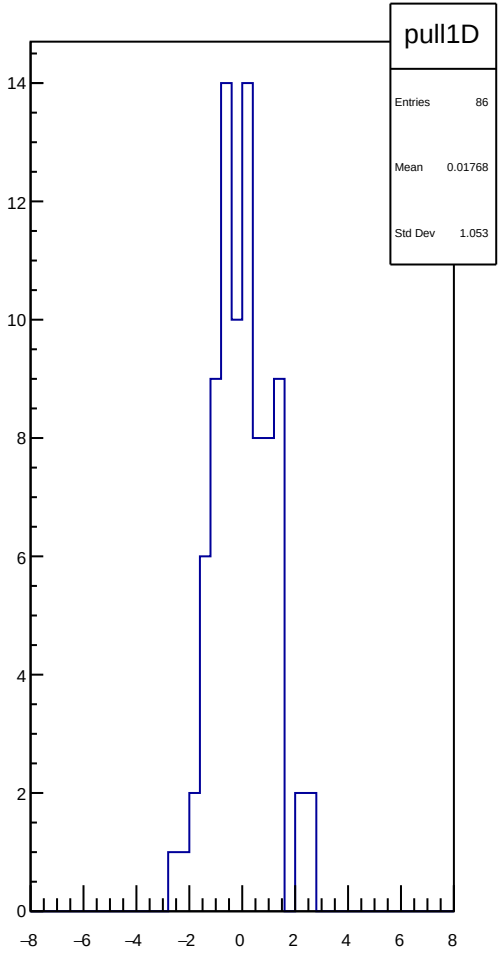

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.991e+05 / 85
p0 1.069e−10 ± 1.114e−13
1
0.8
0.6
0.4
0.2

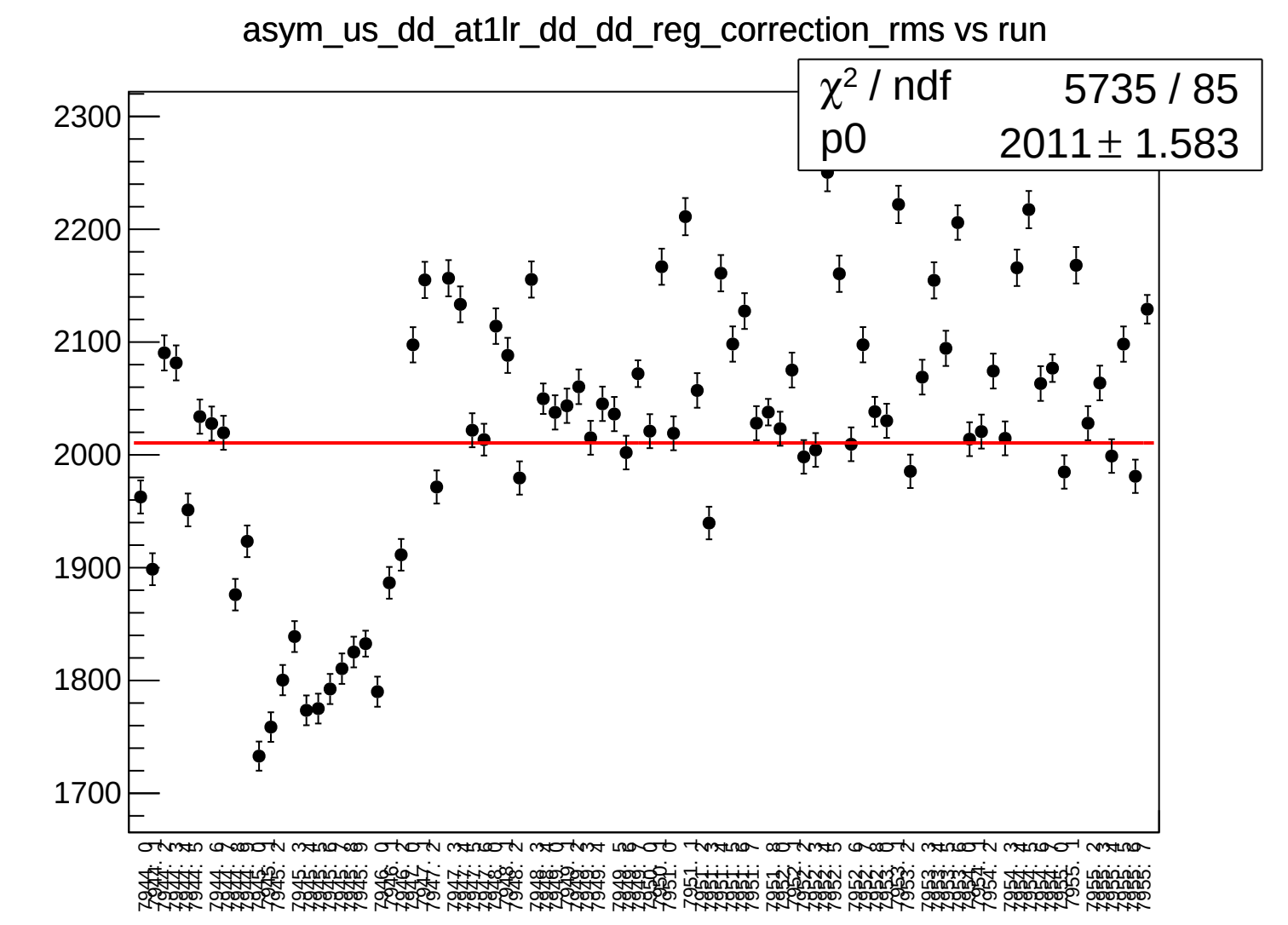

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 78.36 / 85
p0 −0.4168 ± 1919
pull
Entries 86
Mean 562.9
Std Dev 0

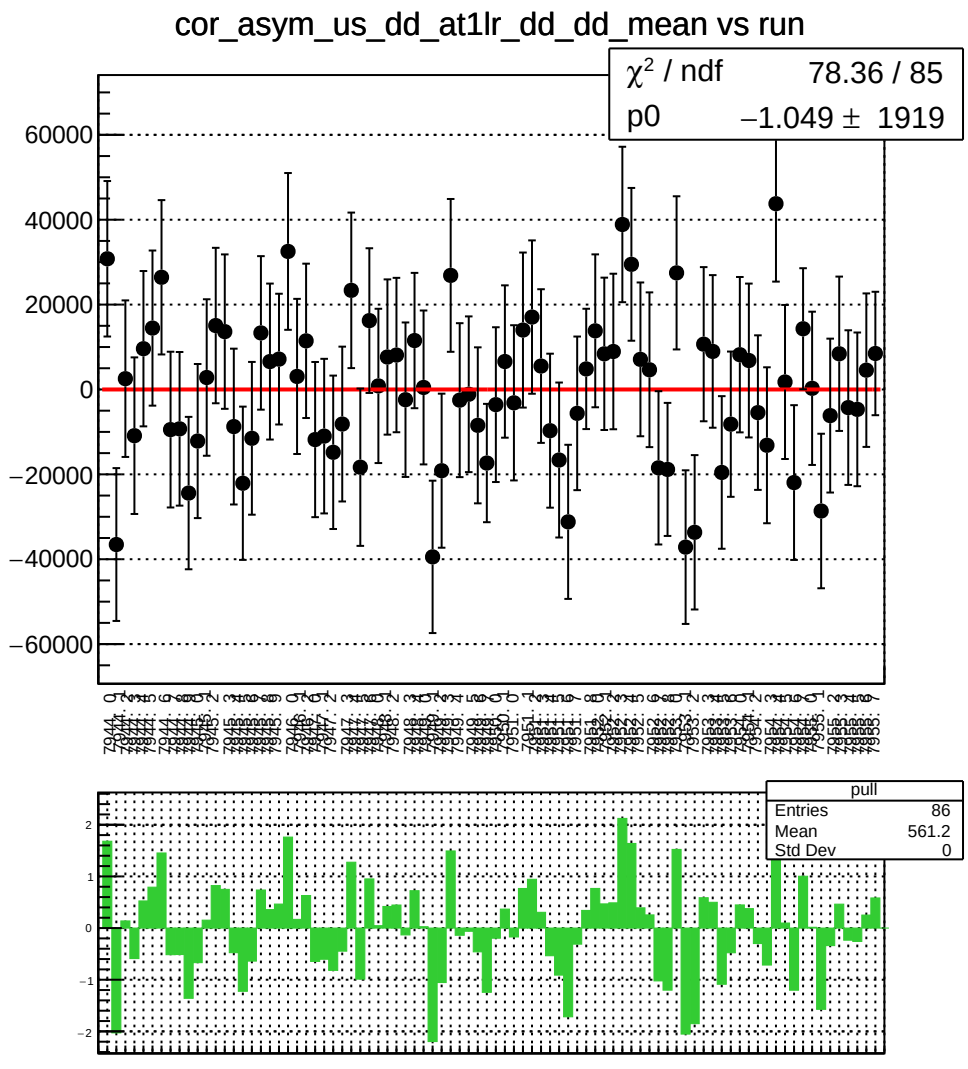

pull1D
Entries 86
Mean −0.000767
Std Dev 0.9546

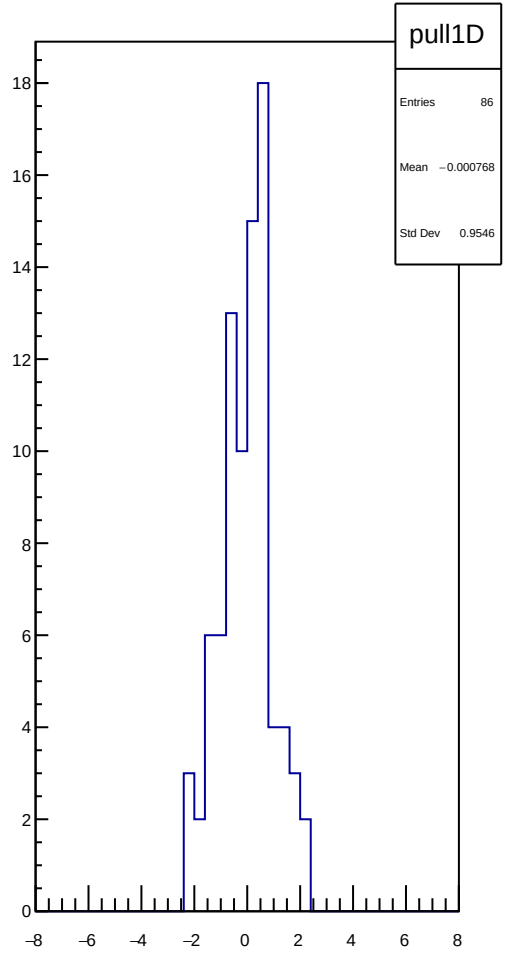

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 87.36 / 85
p0 1727 ± 1.357
1770
1760
1750
1740
1730
1720
1710
1700
1690

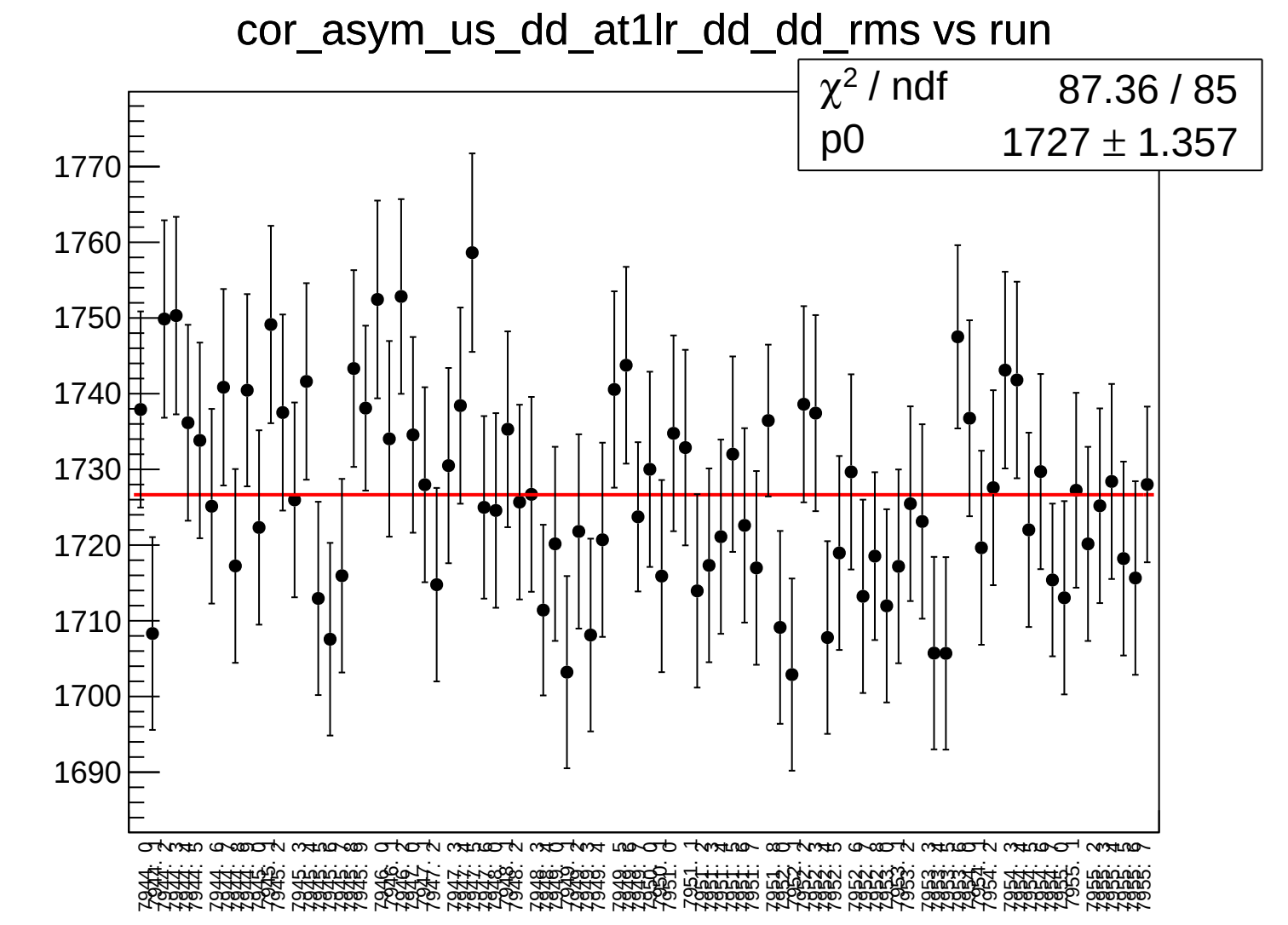

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 95.36 / 85
p0 −1815 ± 2238
pull
Entries 86
Mean 292.6
Std Dev 0

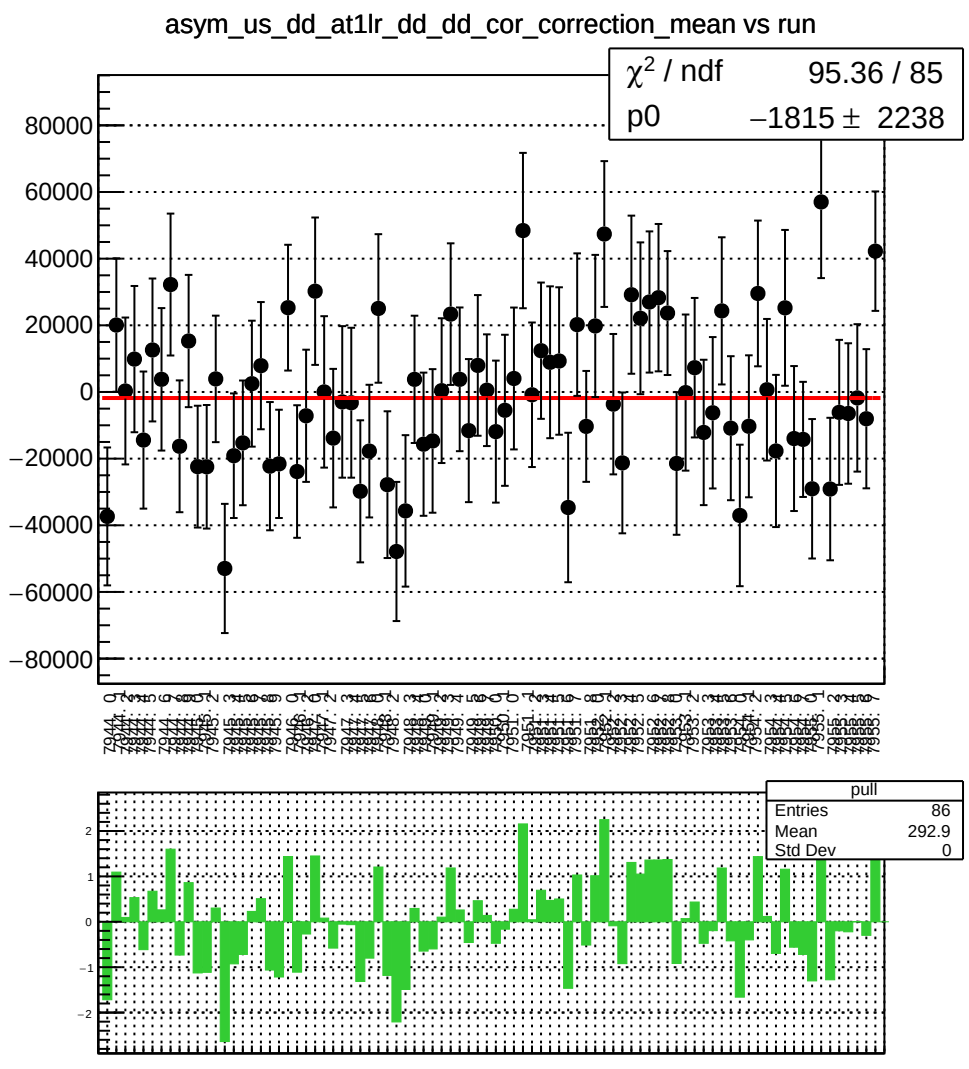

pull1D
Entries 86
Mean 0.01768
Std Dev 1.053

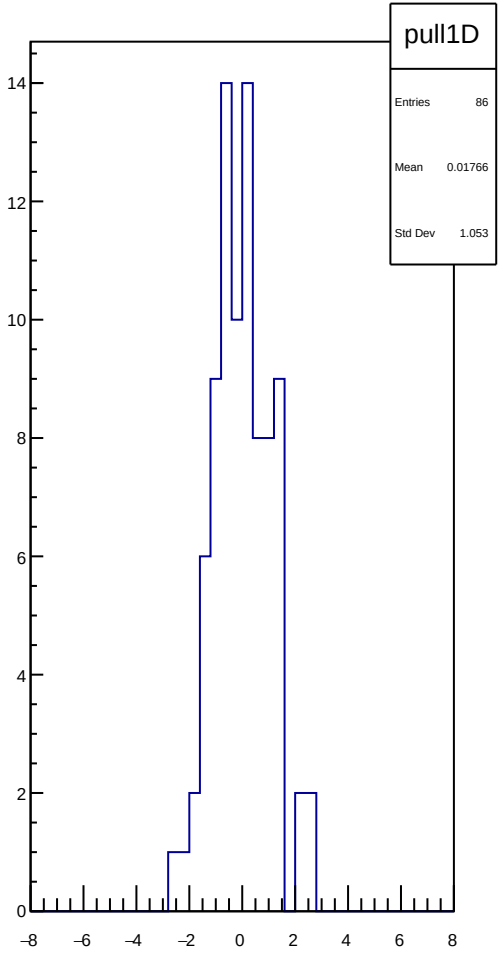

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5735 / 85
p0 2011 ± 1.583
2300
2200
2100
2000
1900
1800
1700

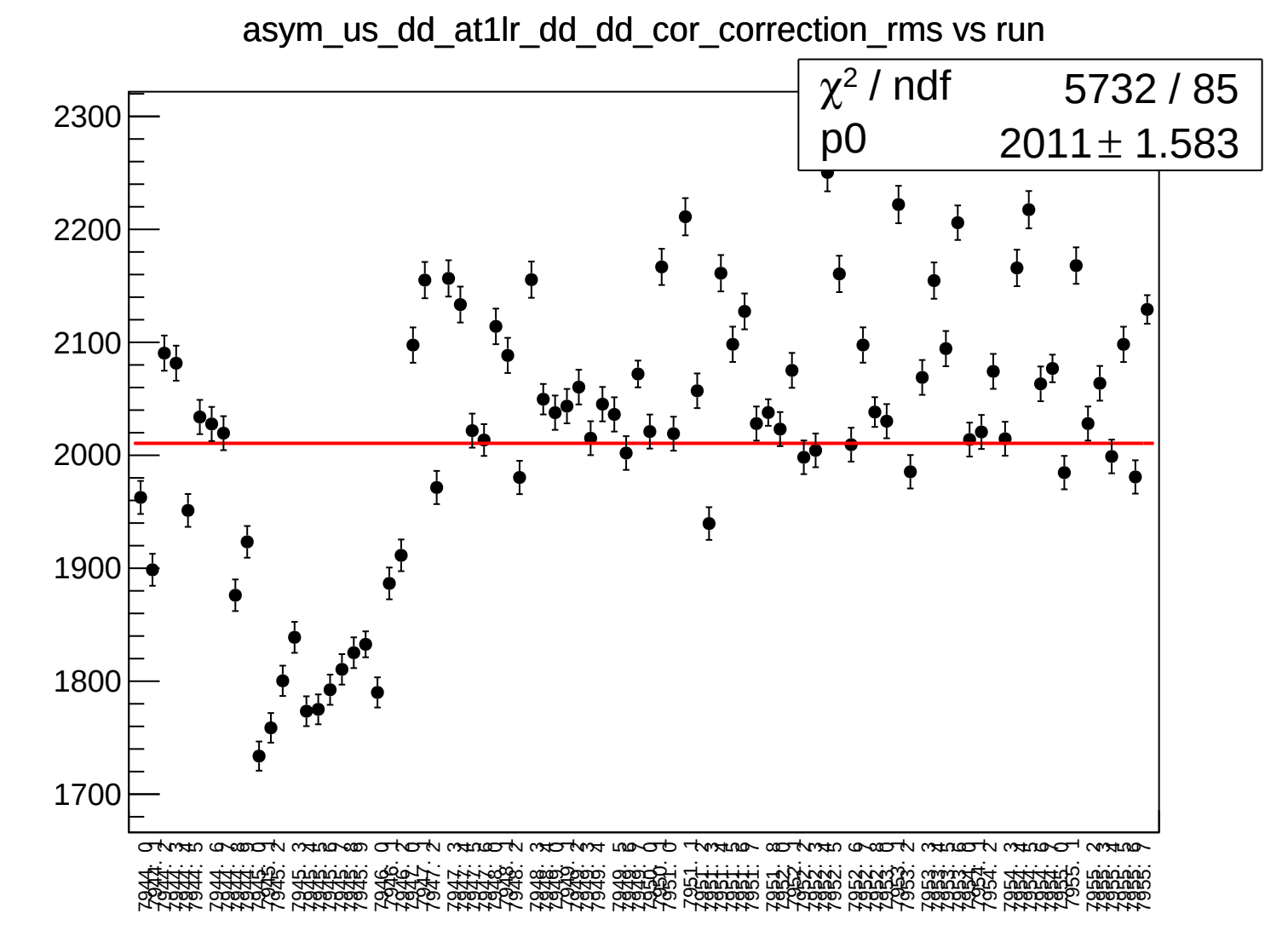

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 78.36 / 85
p0 −1.049 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 561.2
Std Dev 0
2
1
0
−1
−2

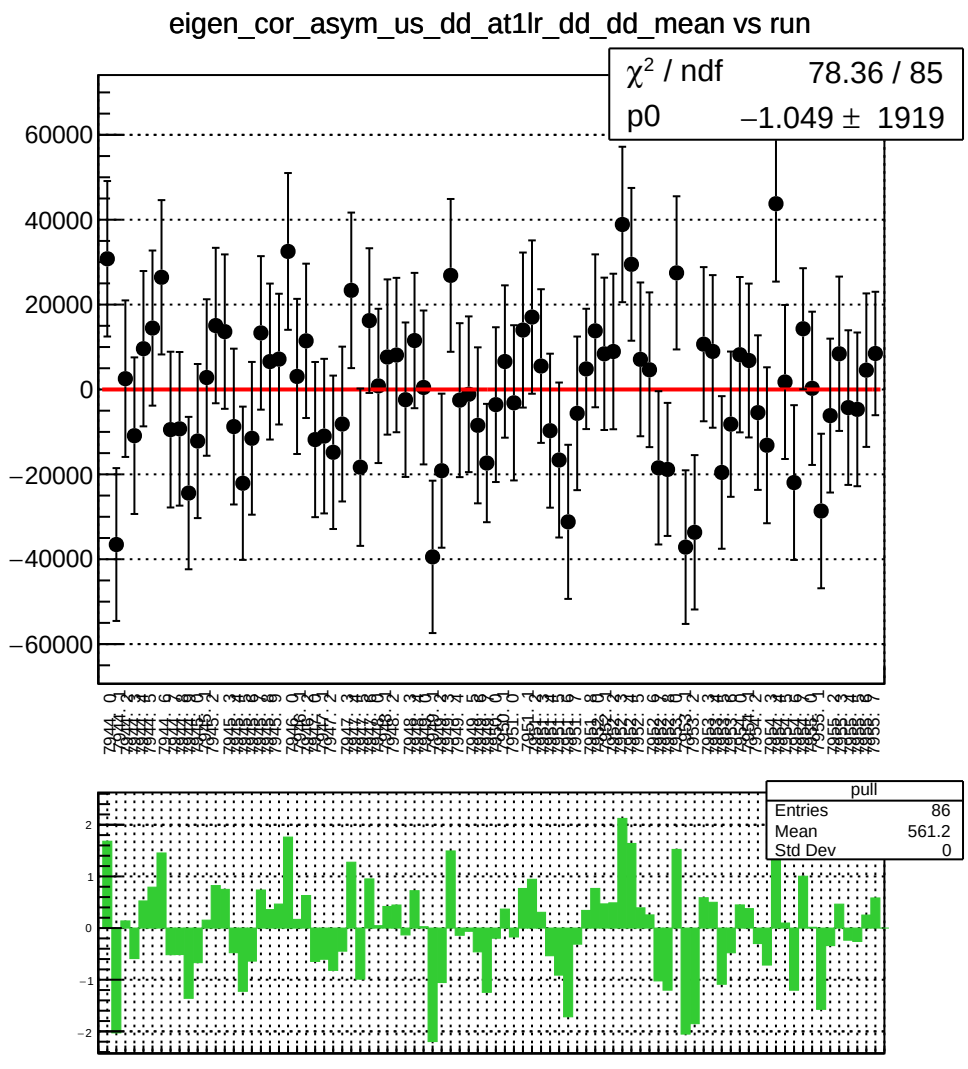

pull1D
Entries 86
Mean −0.000768
Std Dev 0.9546
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

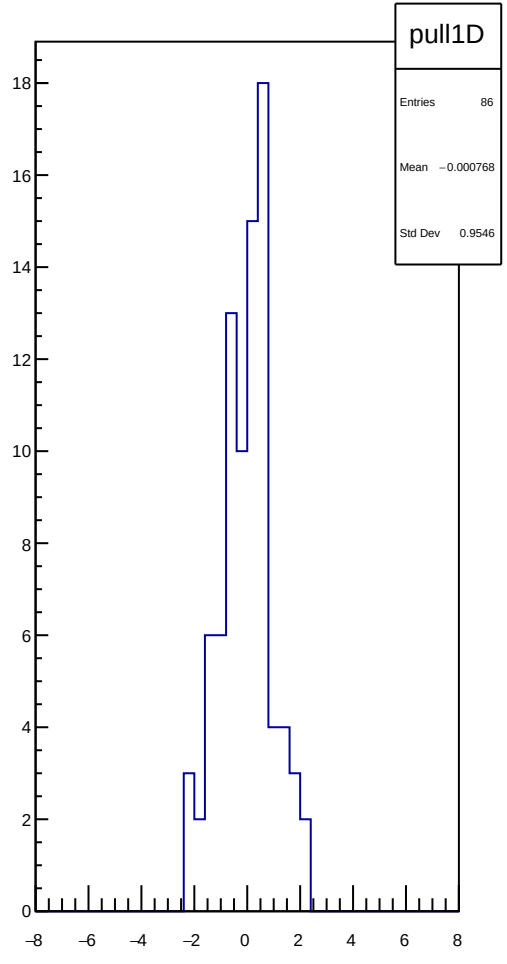

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 87.36 / 85
p0 1727 ± 1.357
1770
1760
1750
1740
1730
1720
1710
1700
1690


asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 95.36 / 85
p0 −1815 ± 2238
pull
Entries 86
Mean 292.9
Std Dev 0


pull1D
Entries 86
Mean 0.01766
Std Dev 1.053


asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5732 / 85
p0 2011 ± 1.583
2300
2200
2100
2000
1900
1800
1700


eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 78.36 / 85
p0 −1.049 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 561.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.000768
Std Dev 0.9546
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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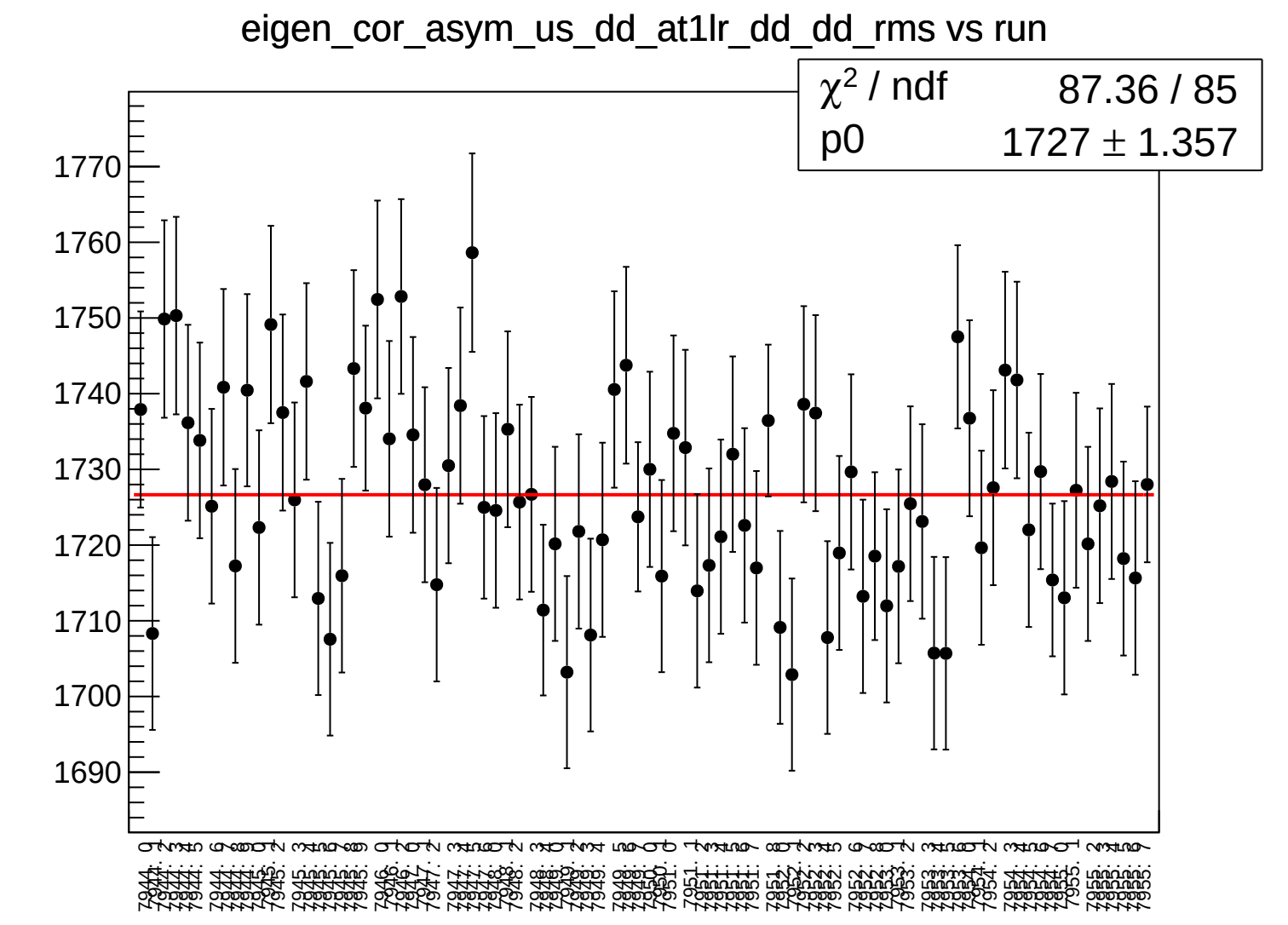
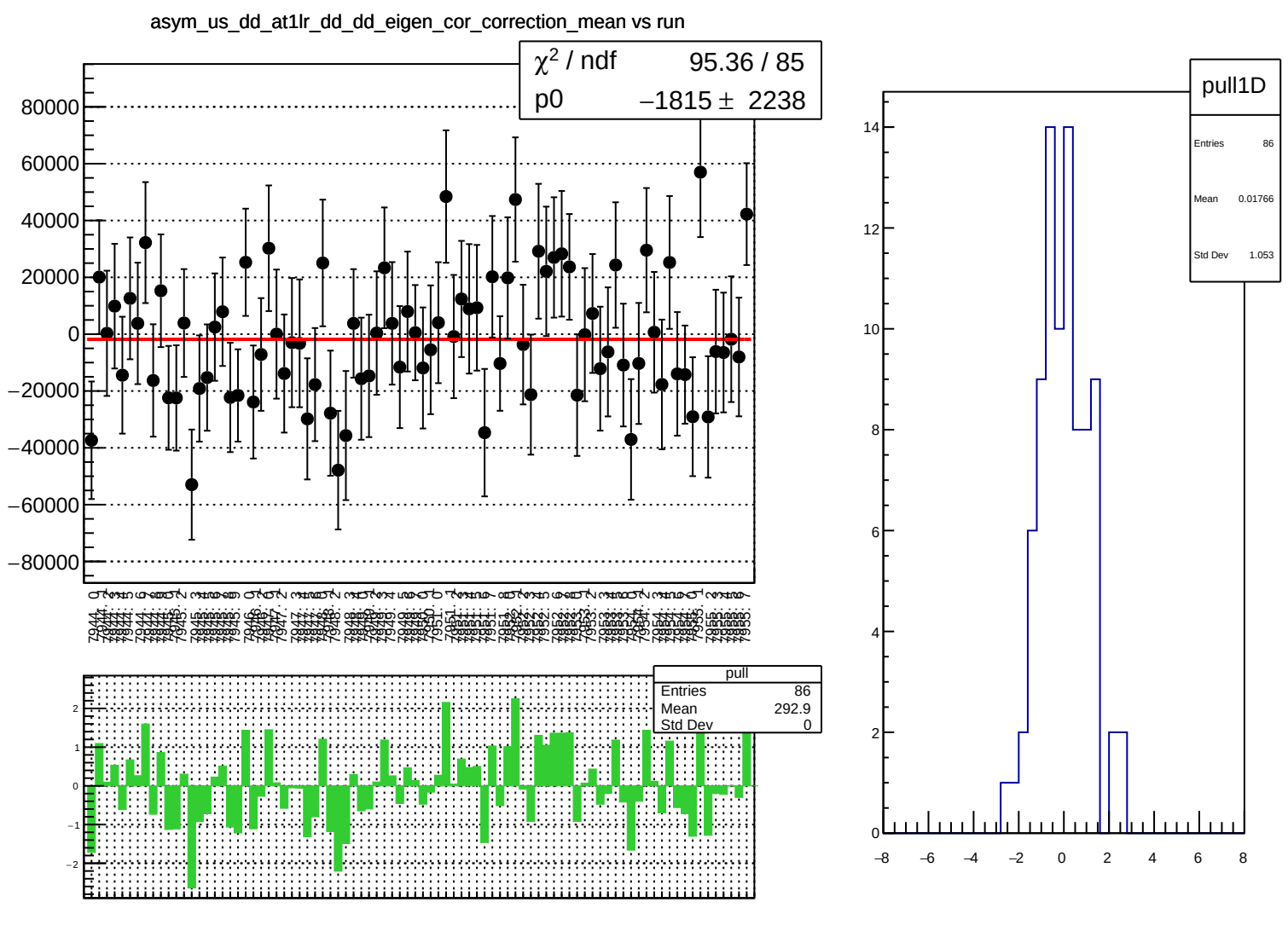
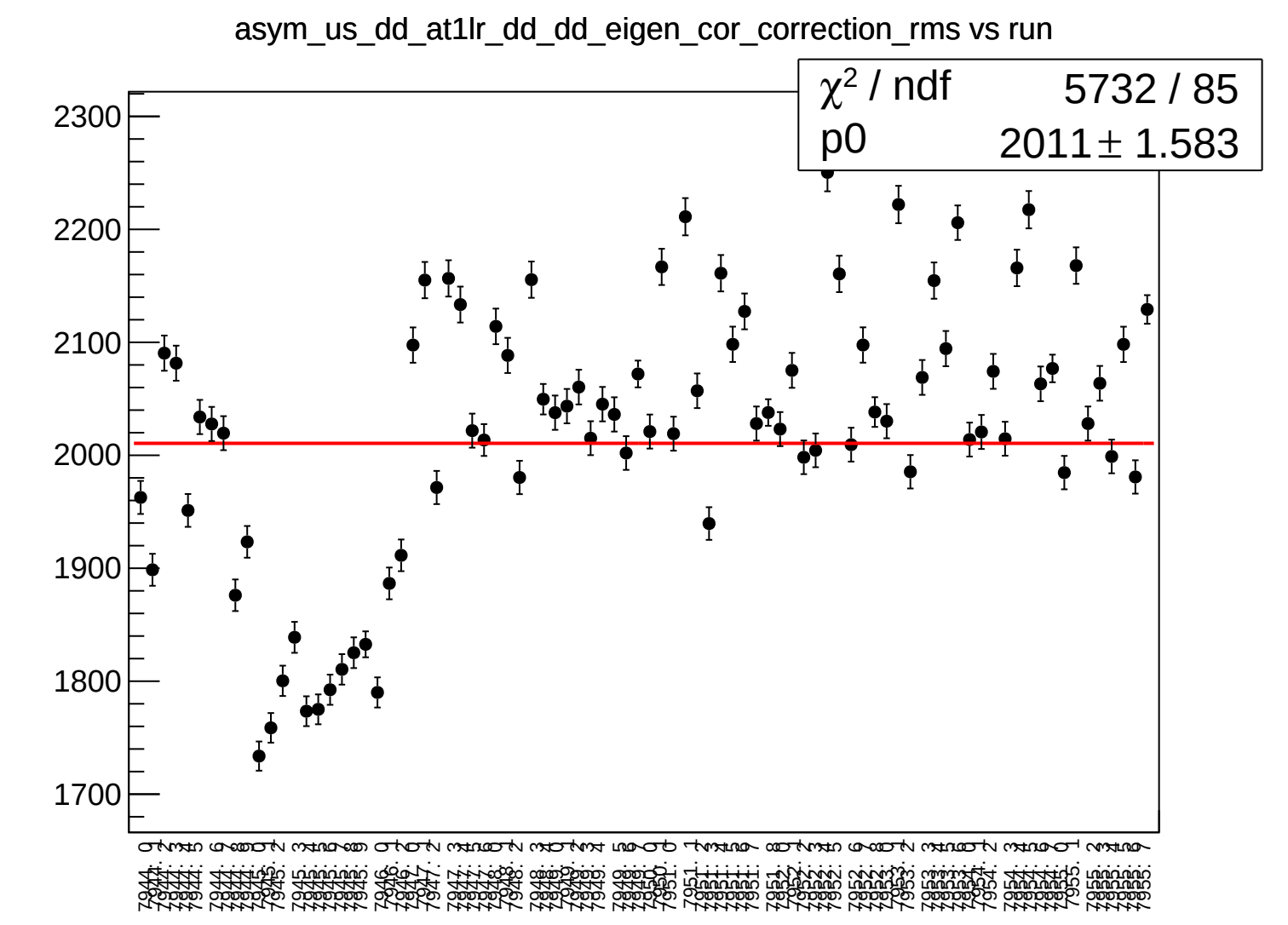
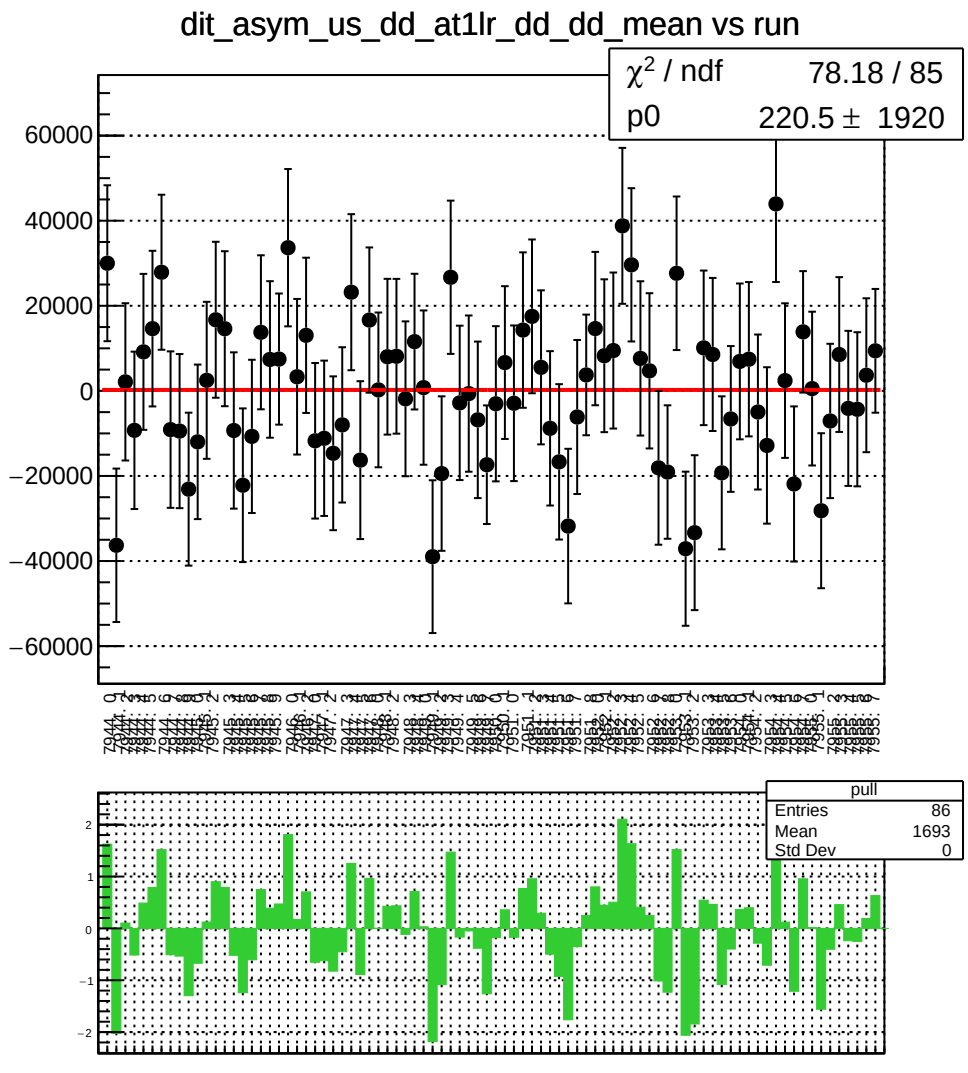
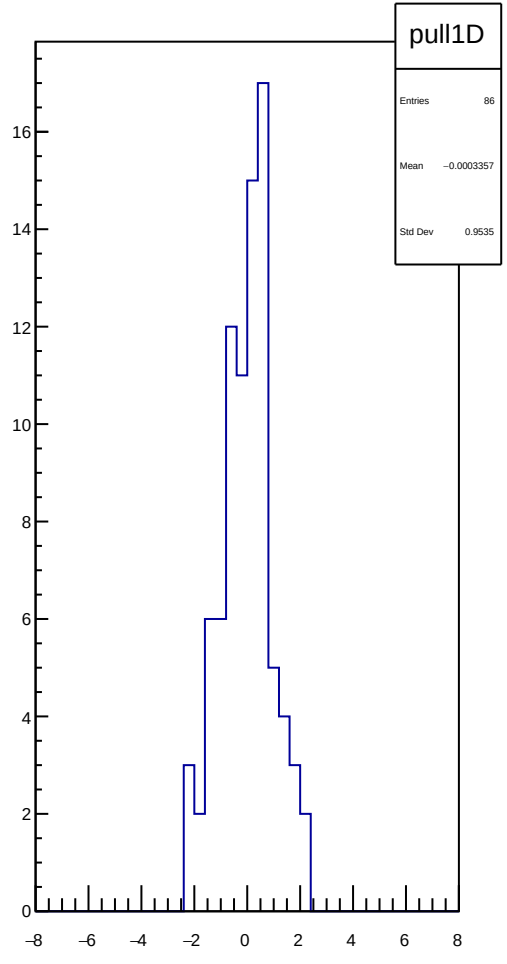
0
2
4
6
8

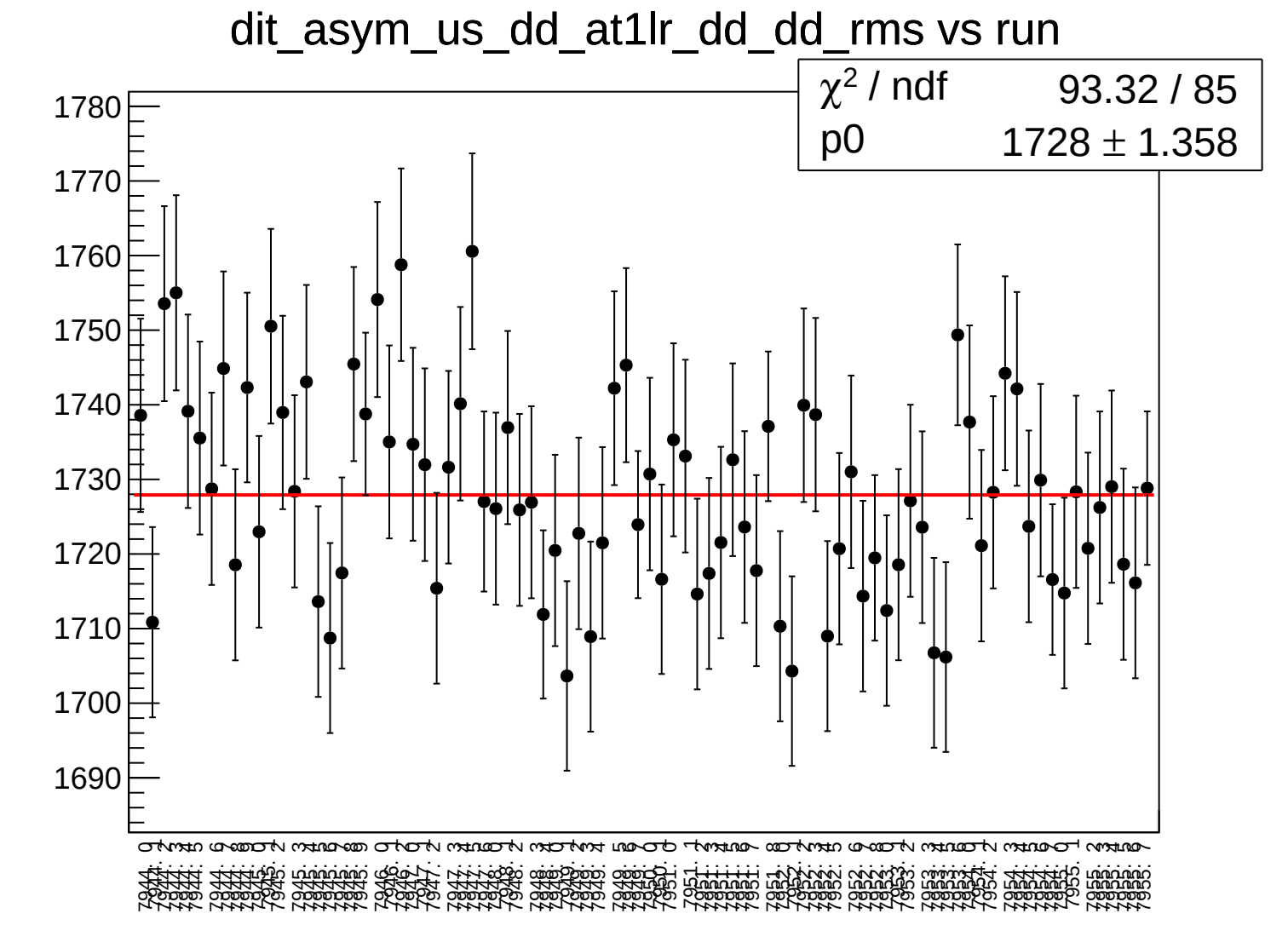

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 87.36 / 85
p0 1727 ± 1.357
1770
1760
1750
1740
1730
1720
1710
1700
1690

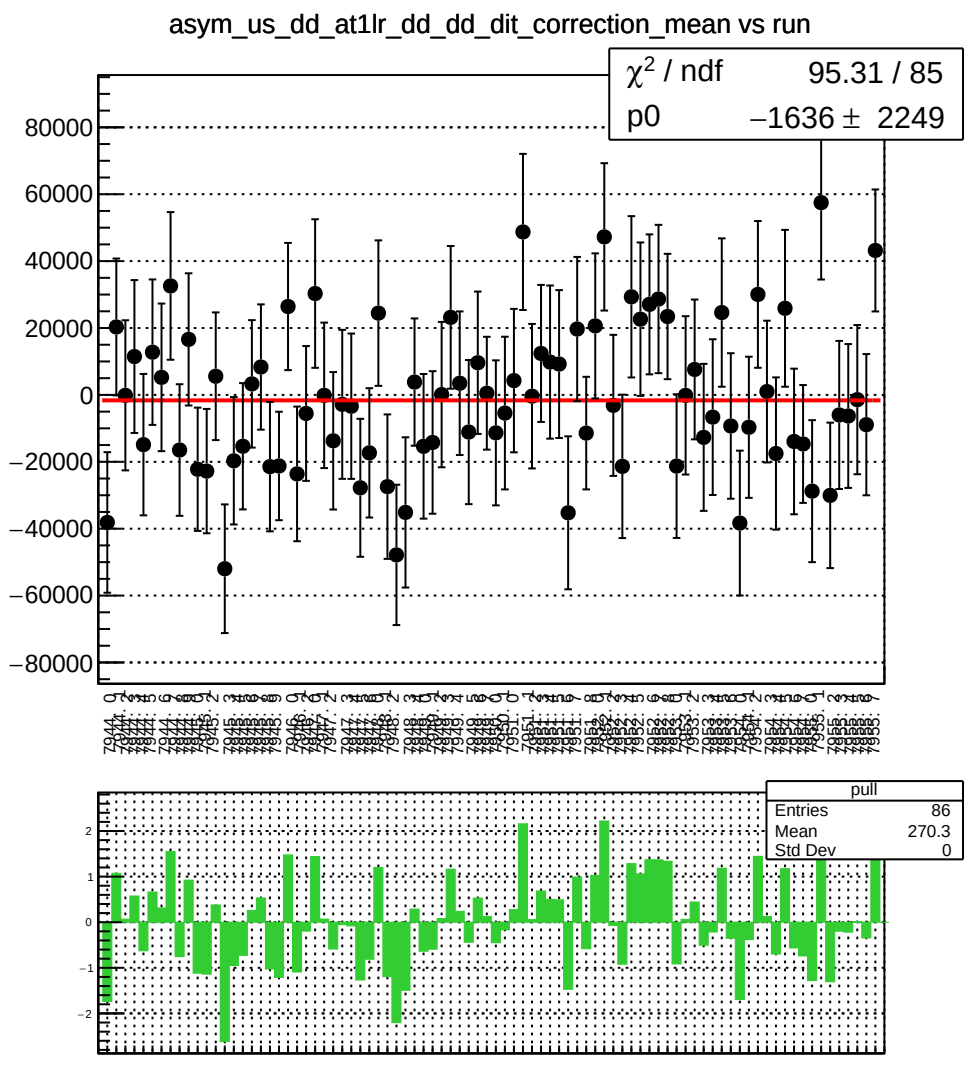

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.36 / 85
p0 −1815 ± 2238
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 292.9
Std Dev 0
pull1D
Entries 86
Mean 0.01766
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

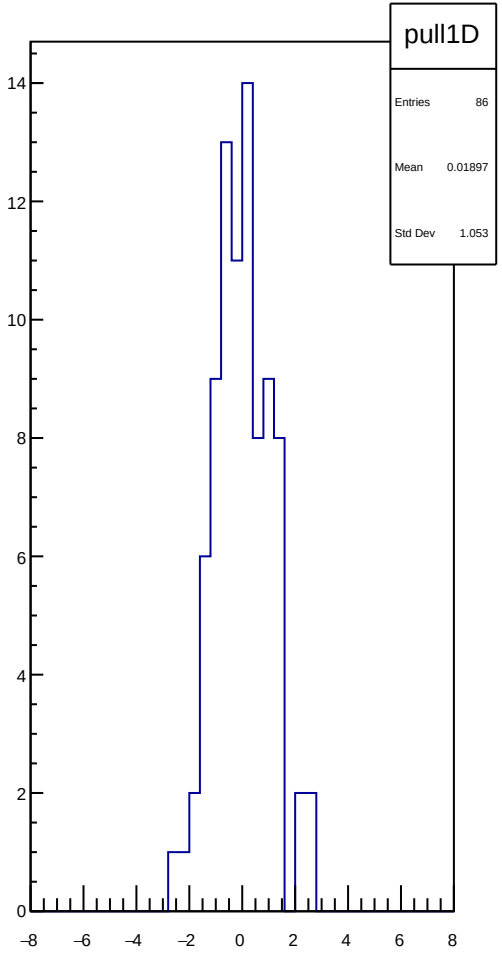

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5732 / 85
p0 2011 ± 1.583
2300
2200
2100
2000
1900
1800
1700

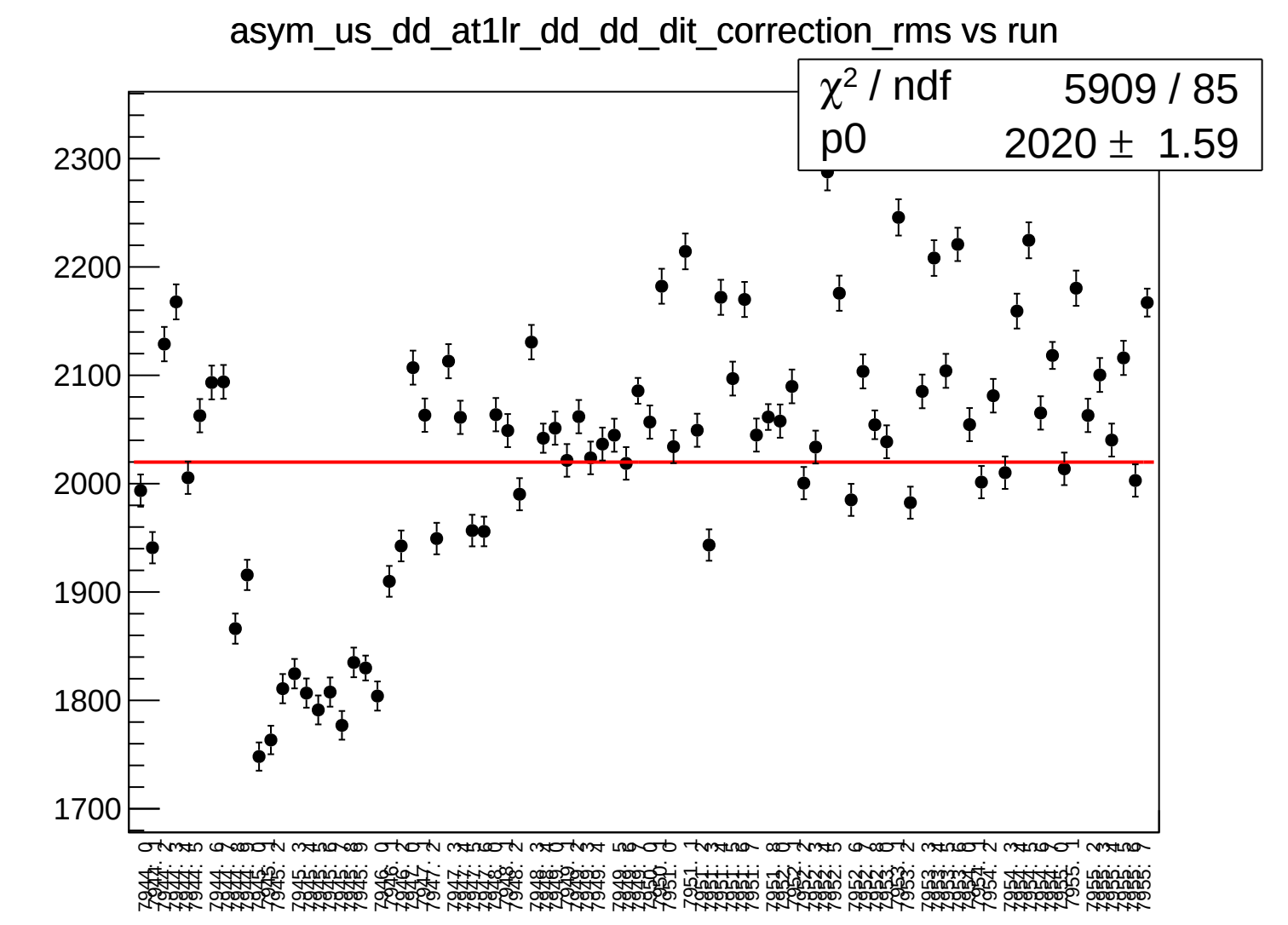

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 78.18 / 85
p0 220.5 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1693
Std Dev 0
2
1
0
−1
−2

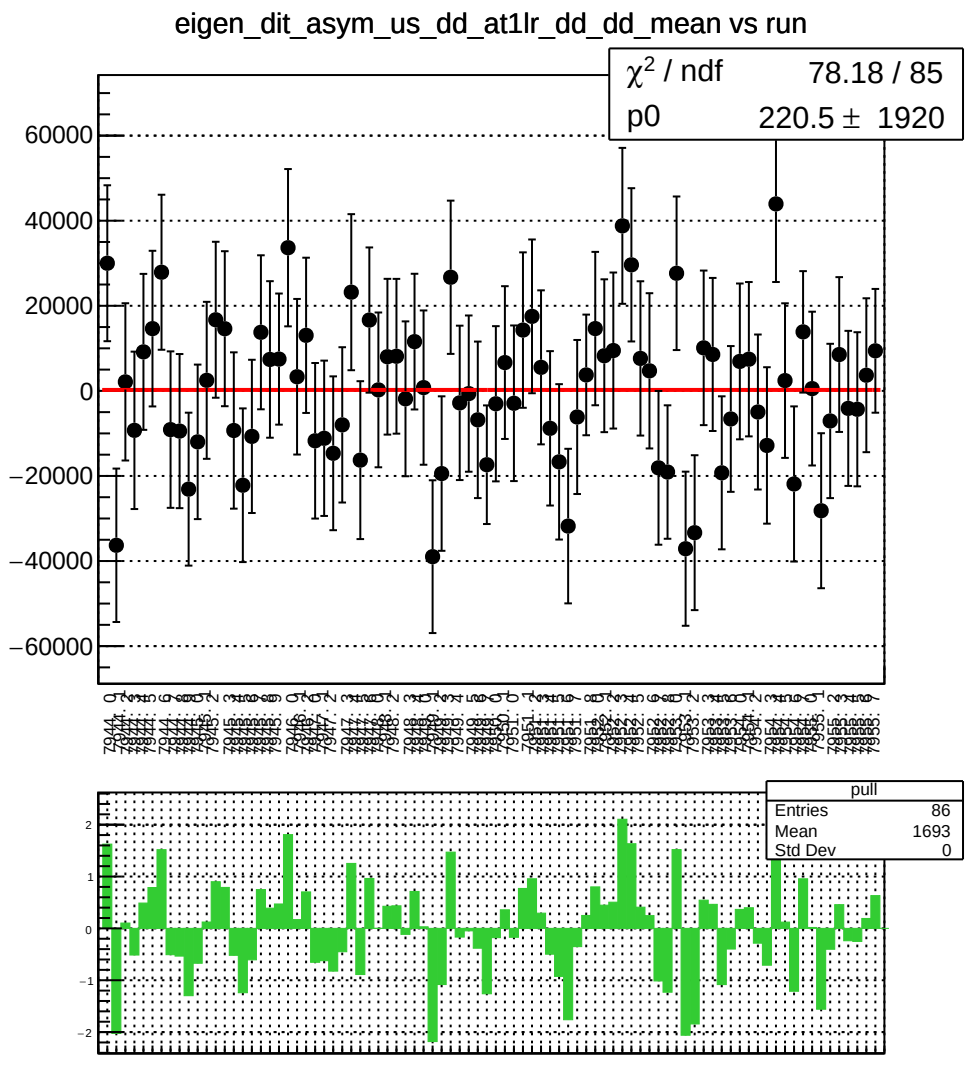

pull1D
Entries 86
Mean −0.0003357
Std Dev 0.9535
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

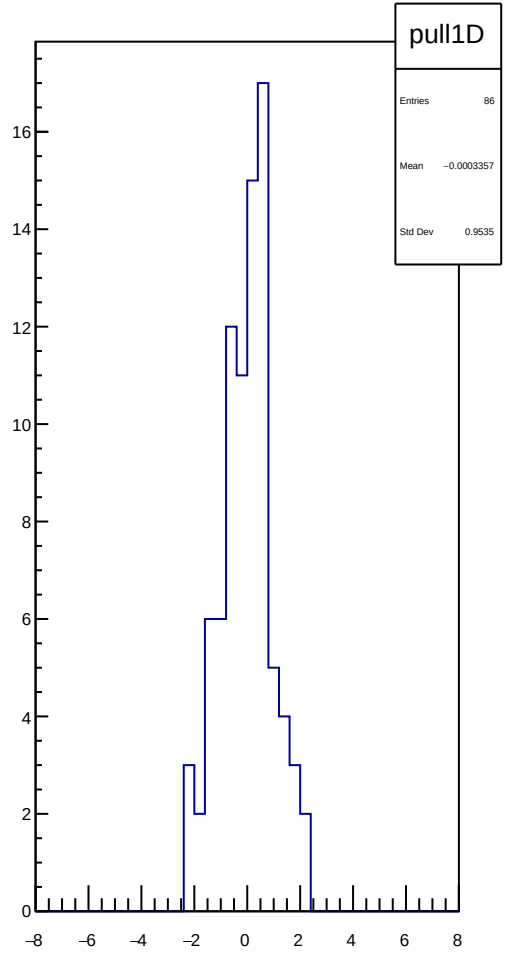

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 93.32 / 85
p0 1728 ± 1.358
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

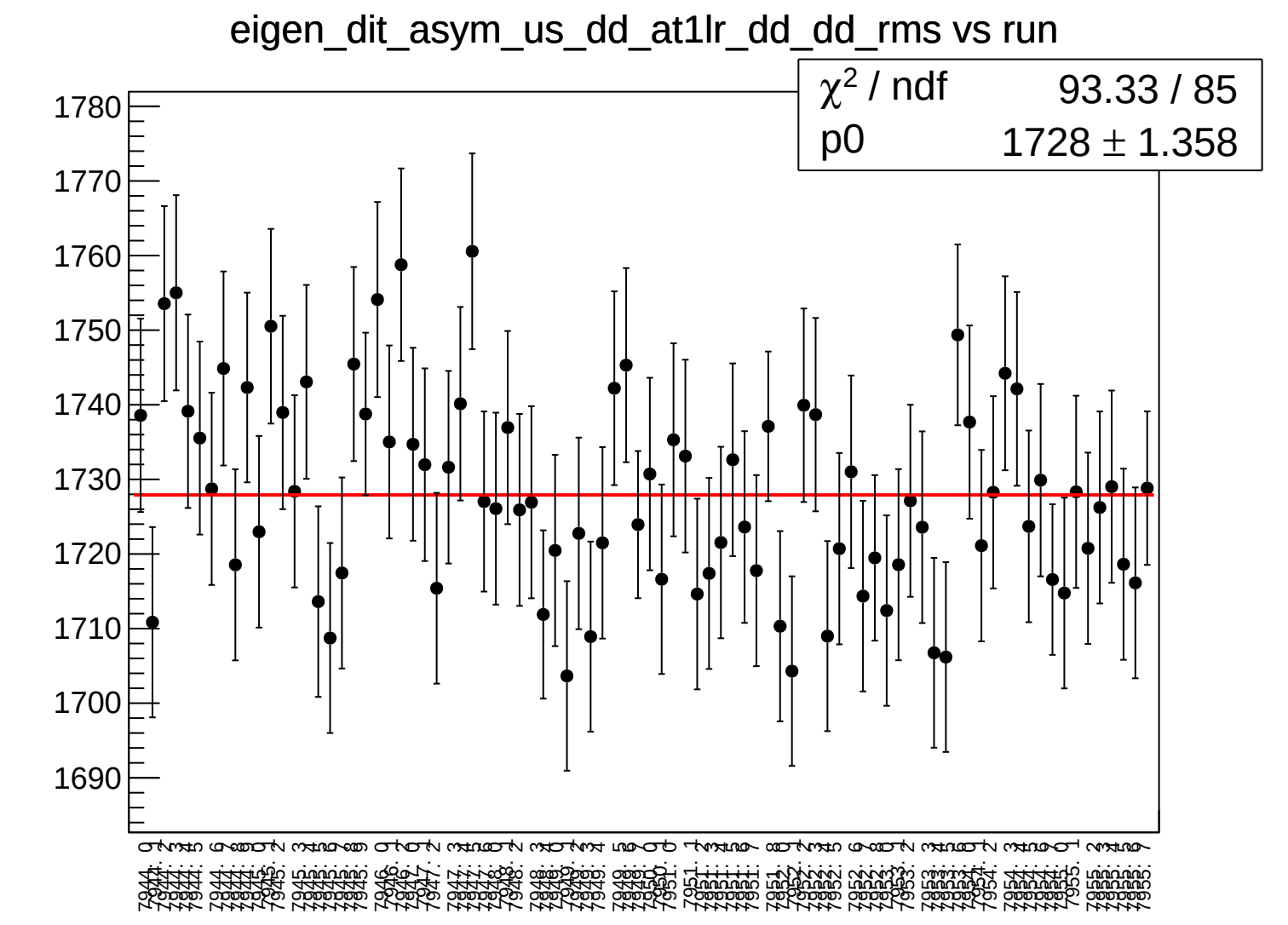

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 95.31 / 85
p0 −1636 ± 2249
pull
Entries 86
Mean 270.3
Std Dev 0

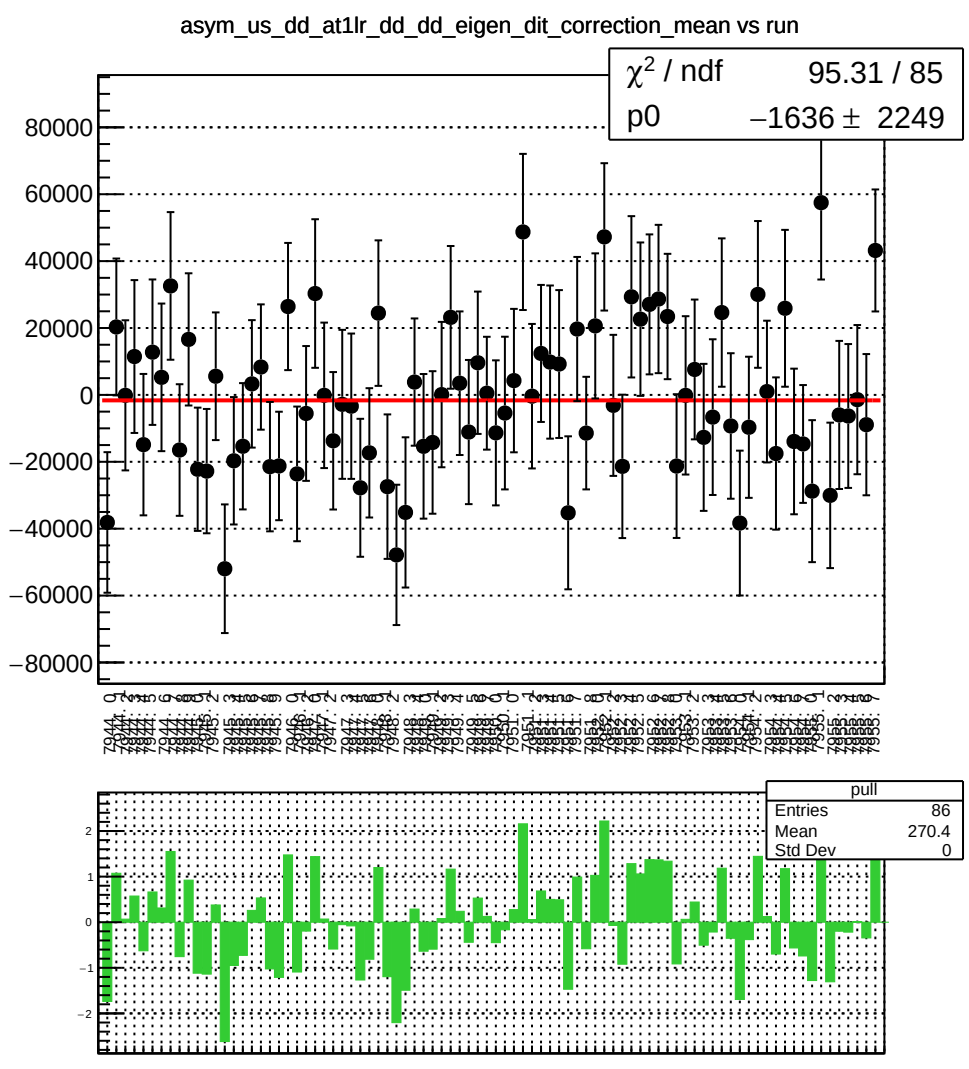

pull1D
Entries 86
Mean 0.01897
Std Dev 1.053

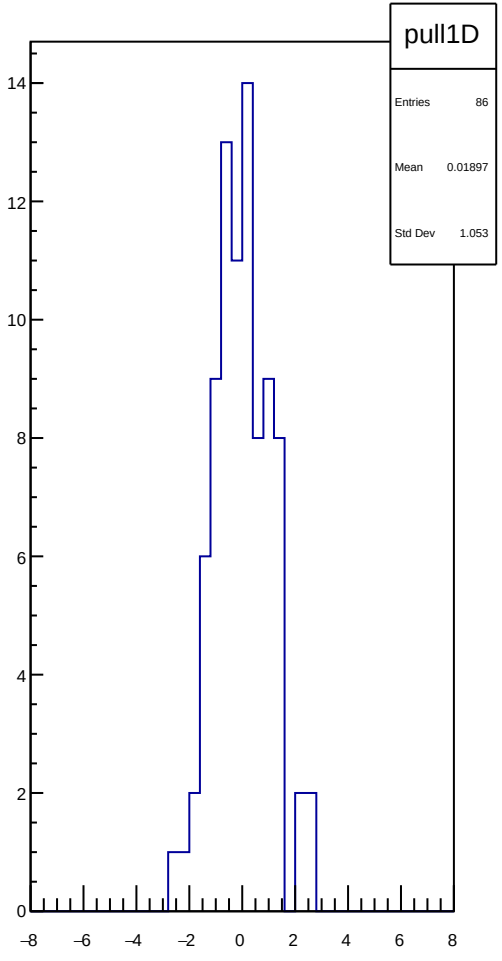

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 5909 / 85
p0 2020 ± 1.59
2300
2200
2100
2000
1900
1800
1700

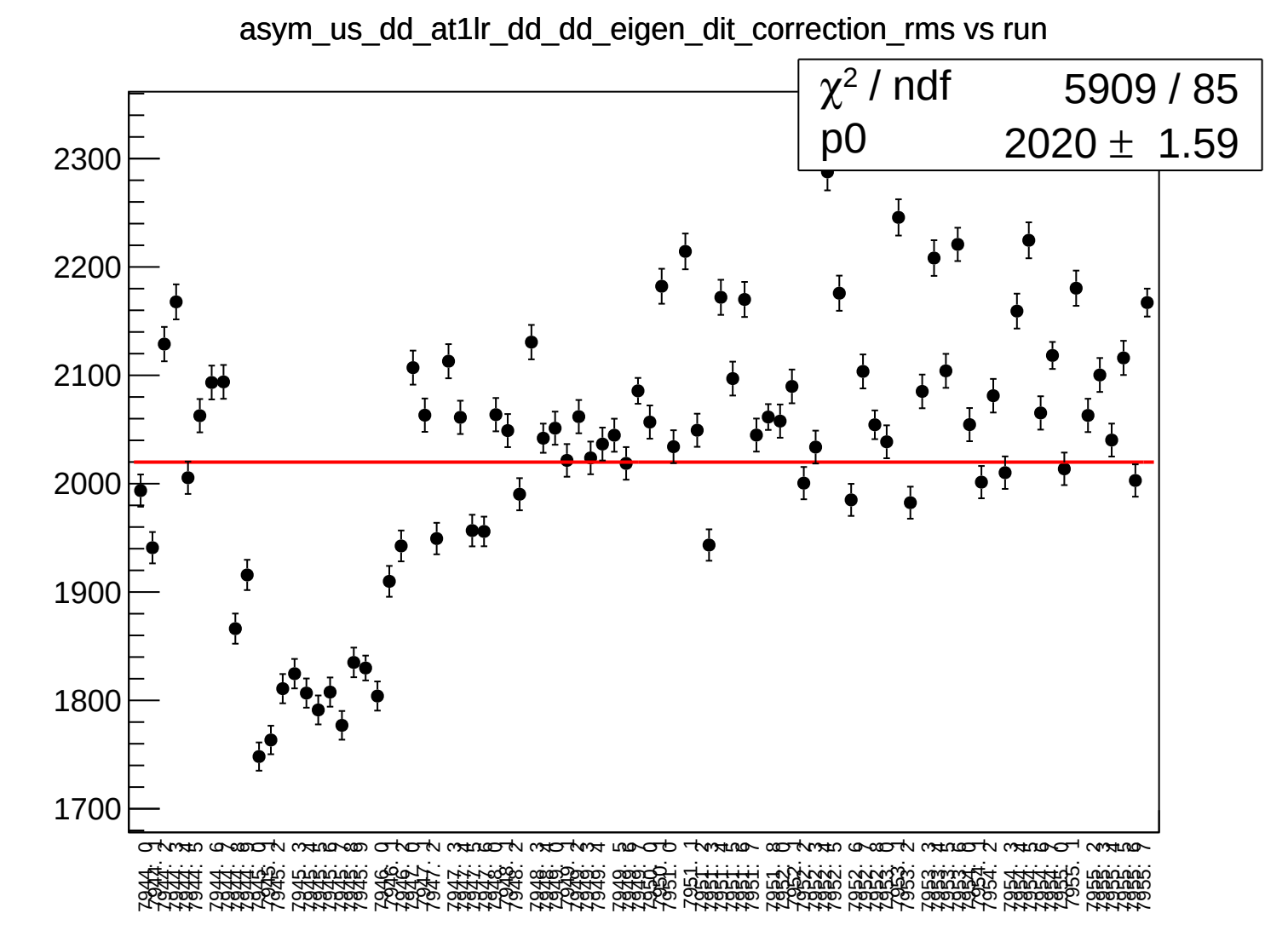

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 78.18 / 85
p0 220.5 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1693
Std Dev 0
2
1
0
−1
−2

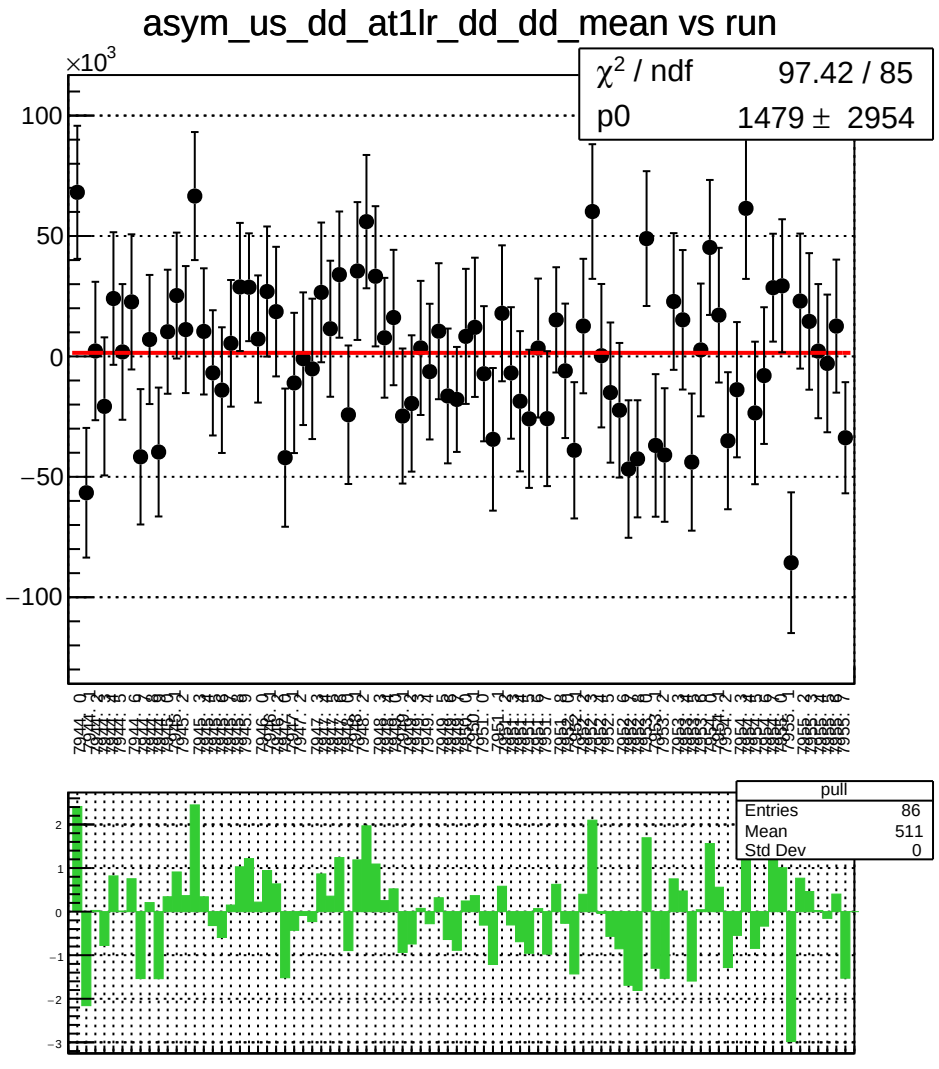

pull1D
Entries 86
Mean −0.0003357
Std Dev 0.9535
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

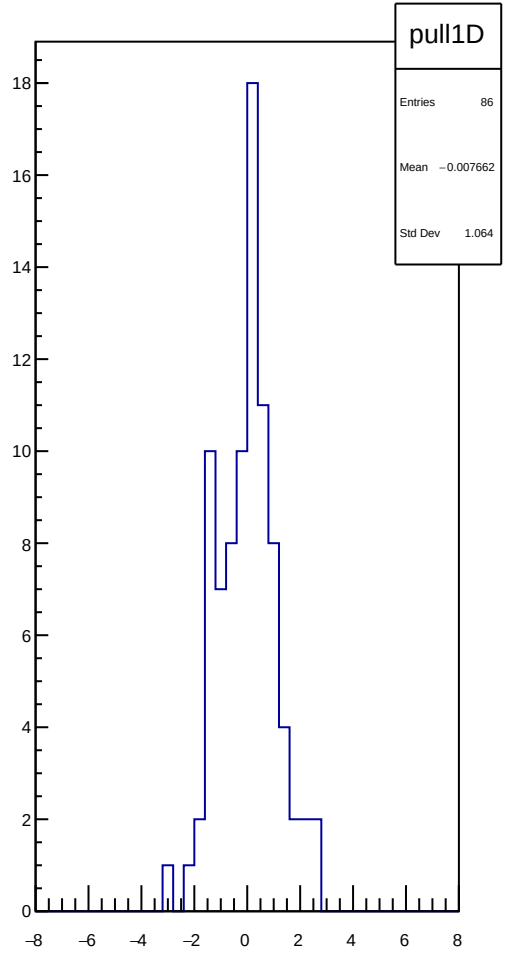

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 93.33 / 85
p0 1728 ± 1.358
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

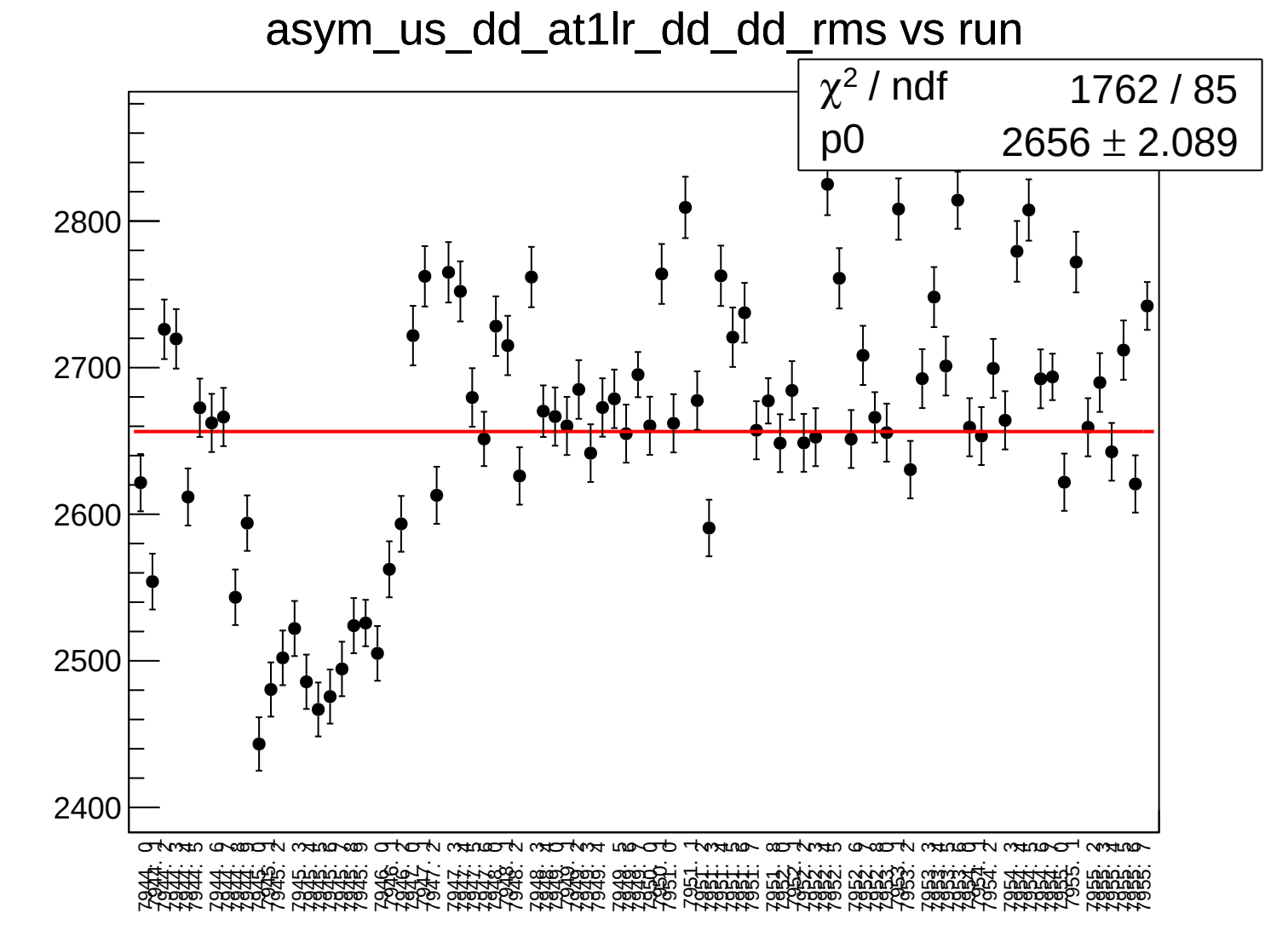

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.31 / 85
p0 −1636 ± 2249
pull
Entries 86
Mean 270.4
Std Dev 0

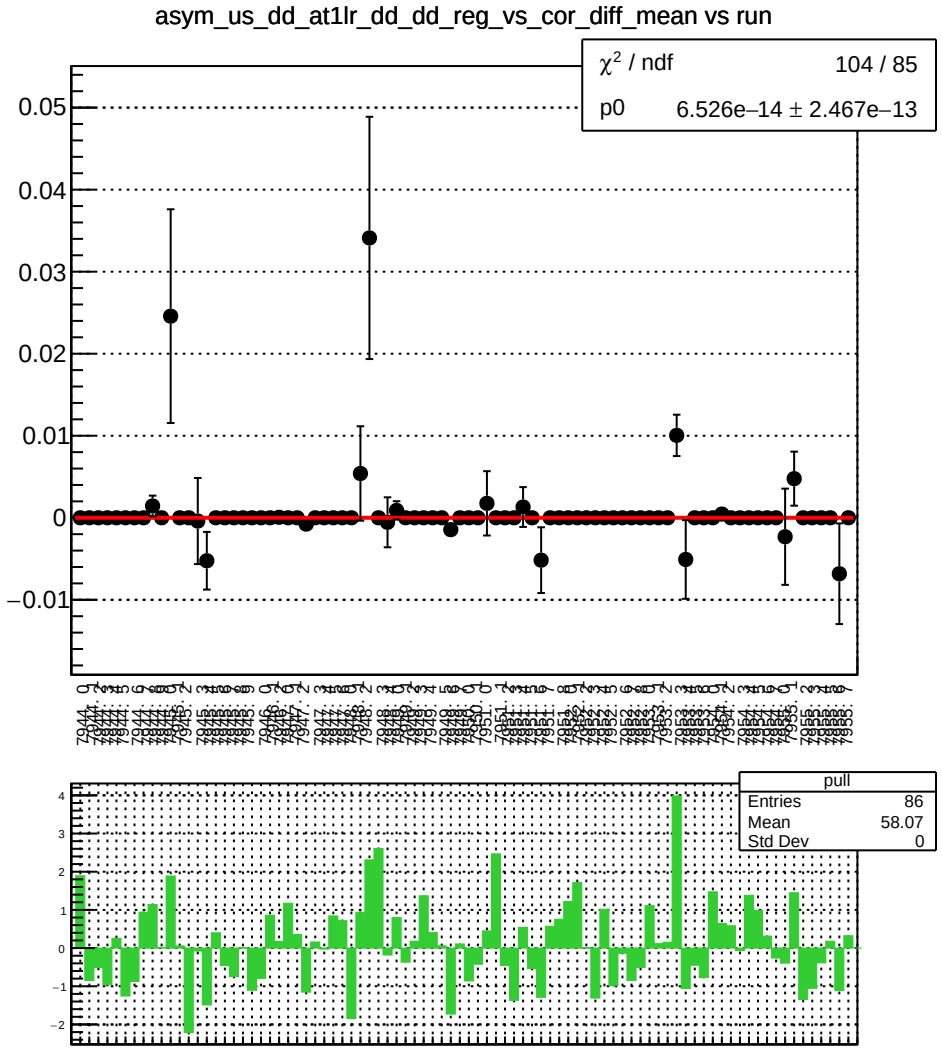

pull1D
Entries 86
Mean 0.01897
Std Dev 1.053

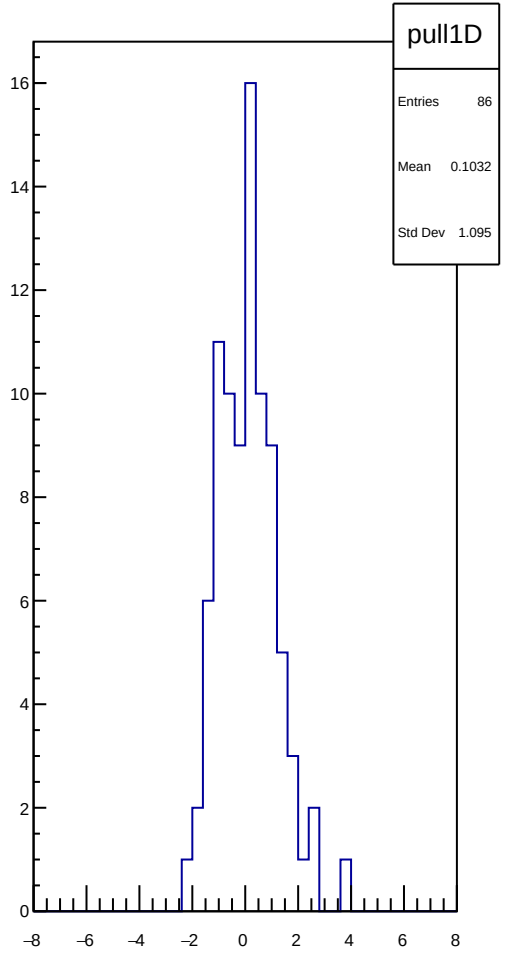

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5909 / 85
p0 2020 ± 1.59
2300
2200
2100
2000
1900
1800
1700

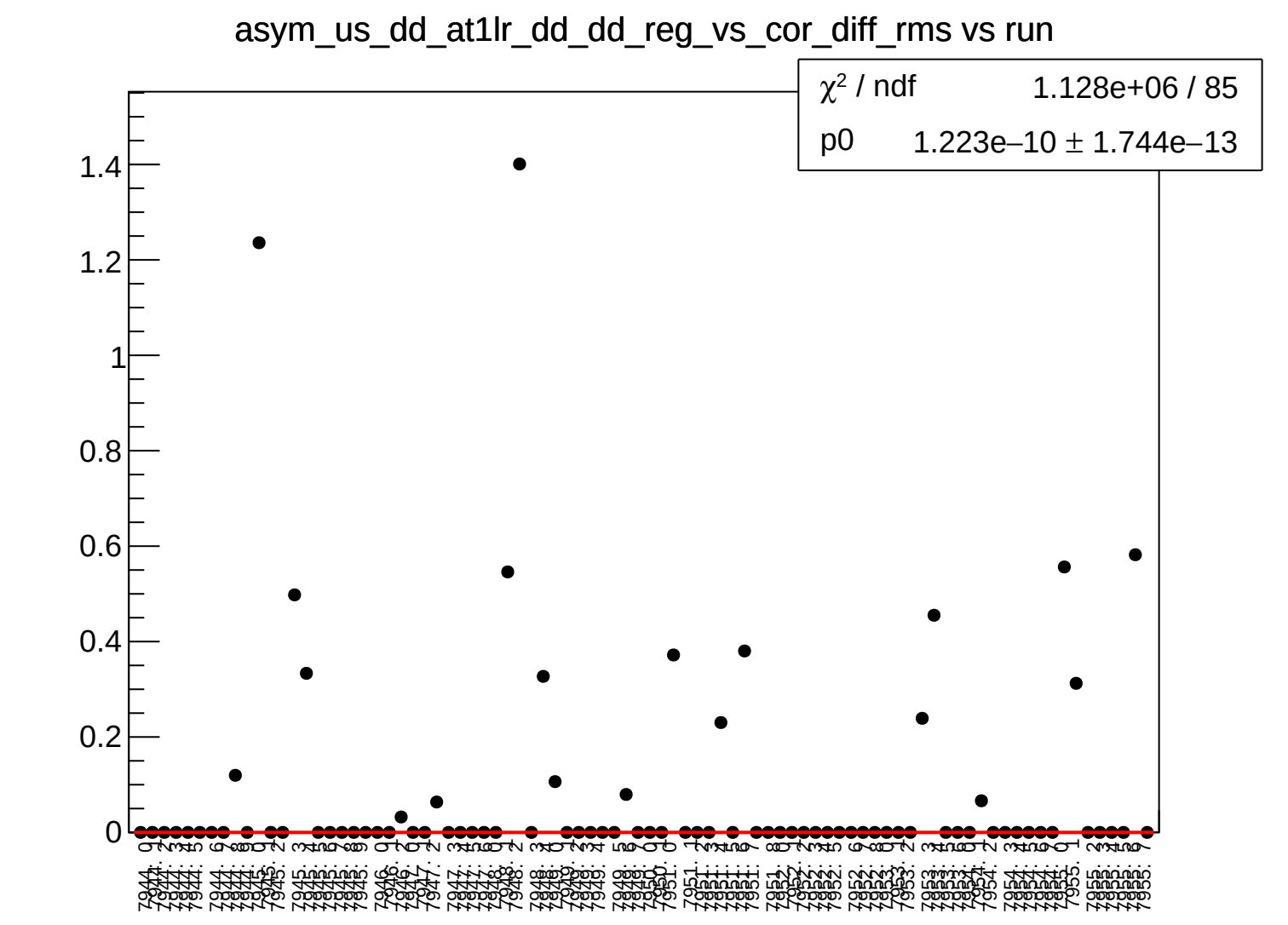

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 97.42 / 85
p0 1479 ± 2954
100
50
0
−50
−100
pull
Entries 86
Mean 511
Std Dev 0
2
1
0
−1
−2
−3

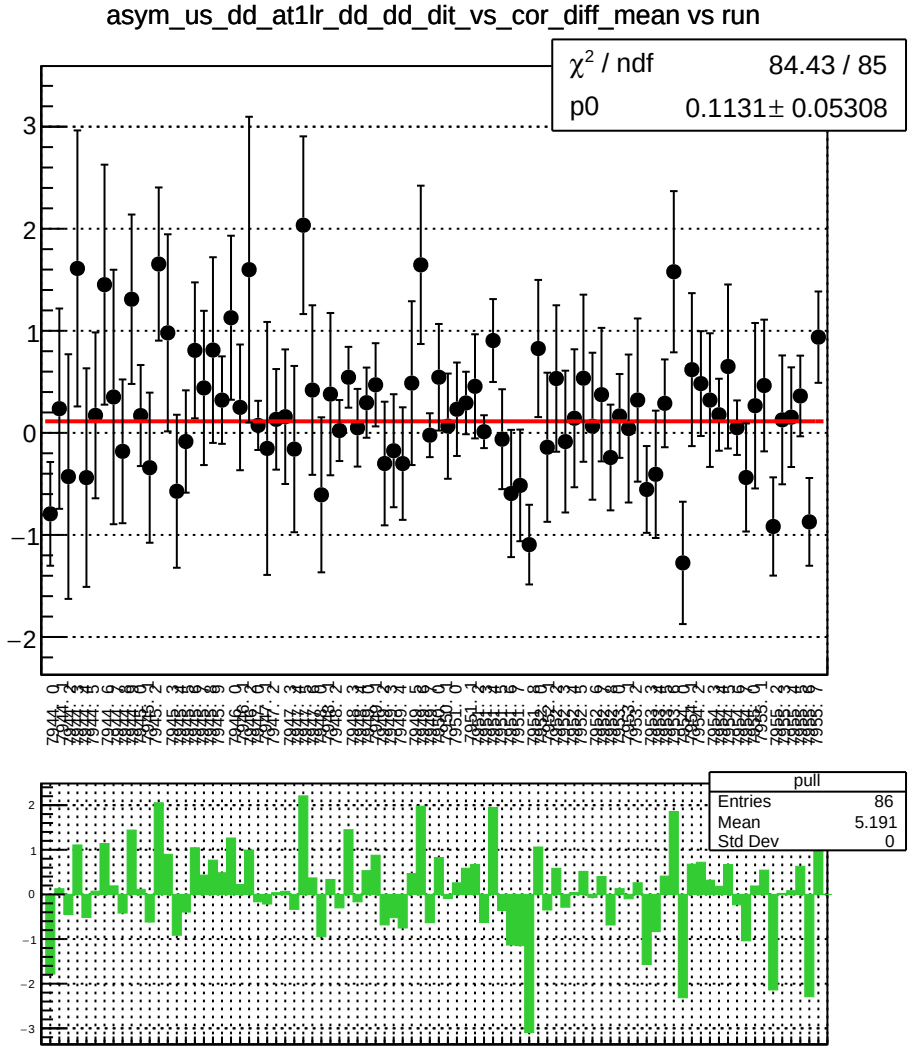

pull1D
Entries 86
Mean −0.007662
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

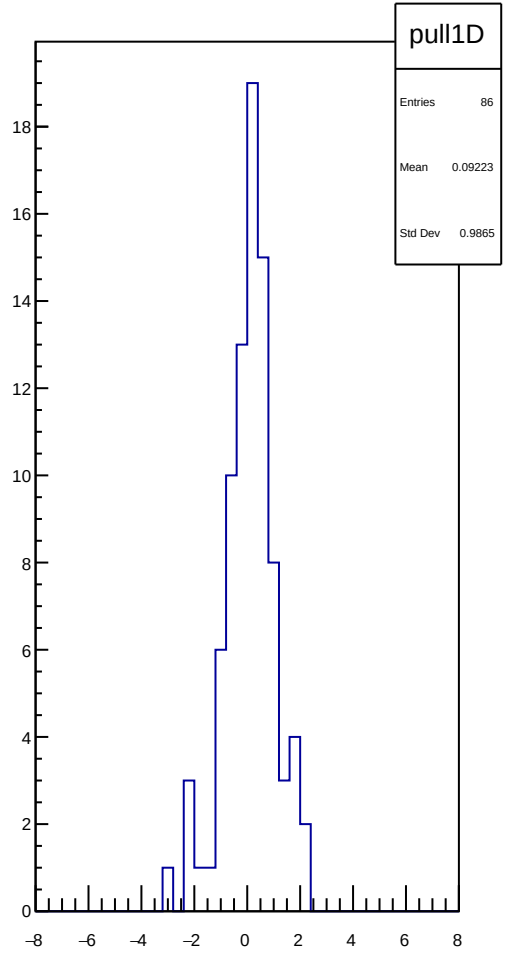

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1762 / 85
p0 2656 ± 2.089
2800
2700
2600
2500
2400

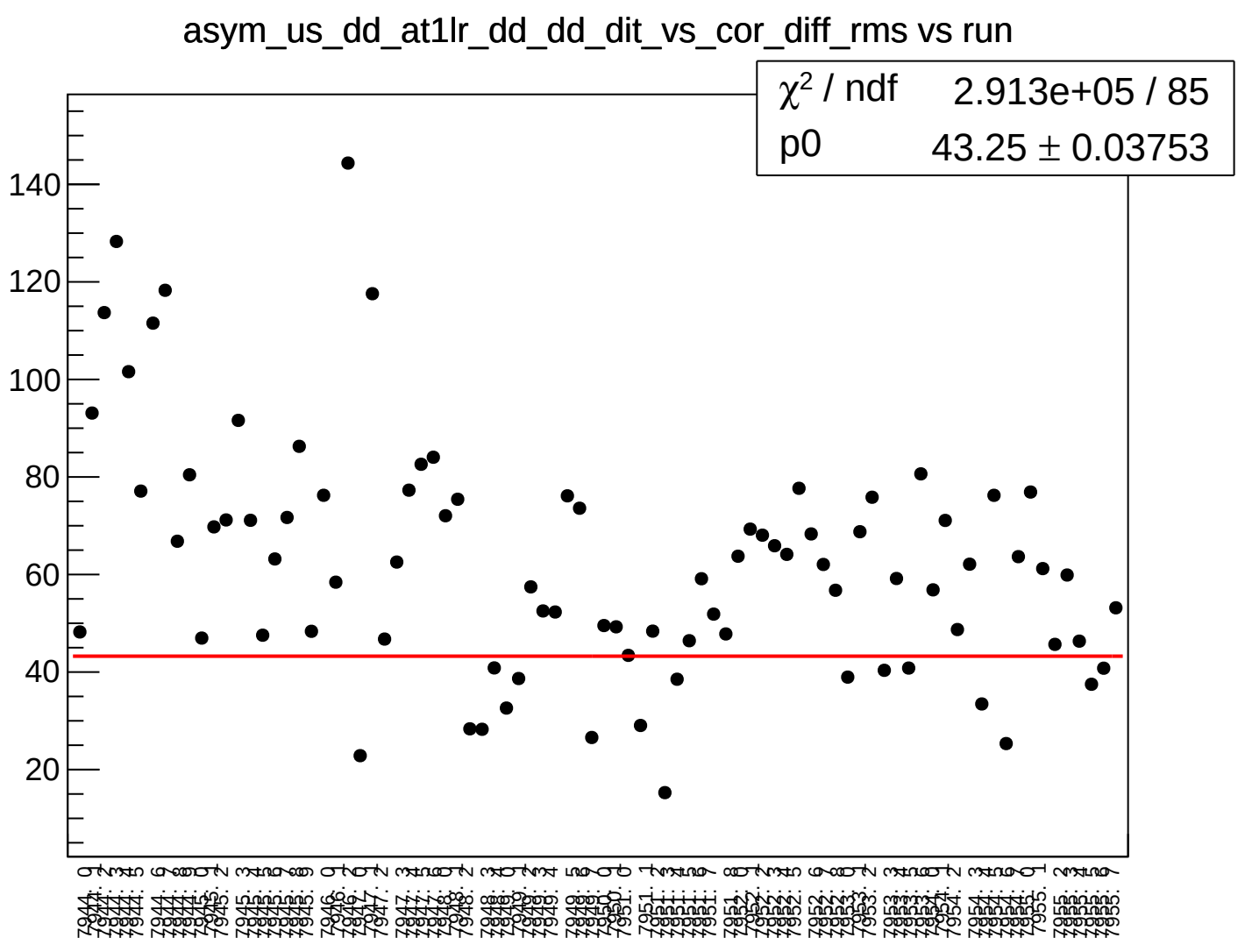

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104 / 85
p0 6.526e−14 ± 2.467e−13
0.05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 86
Mean 58.07
Std Dev 0
4
3
2
1
0
−1
−2

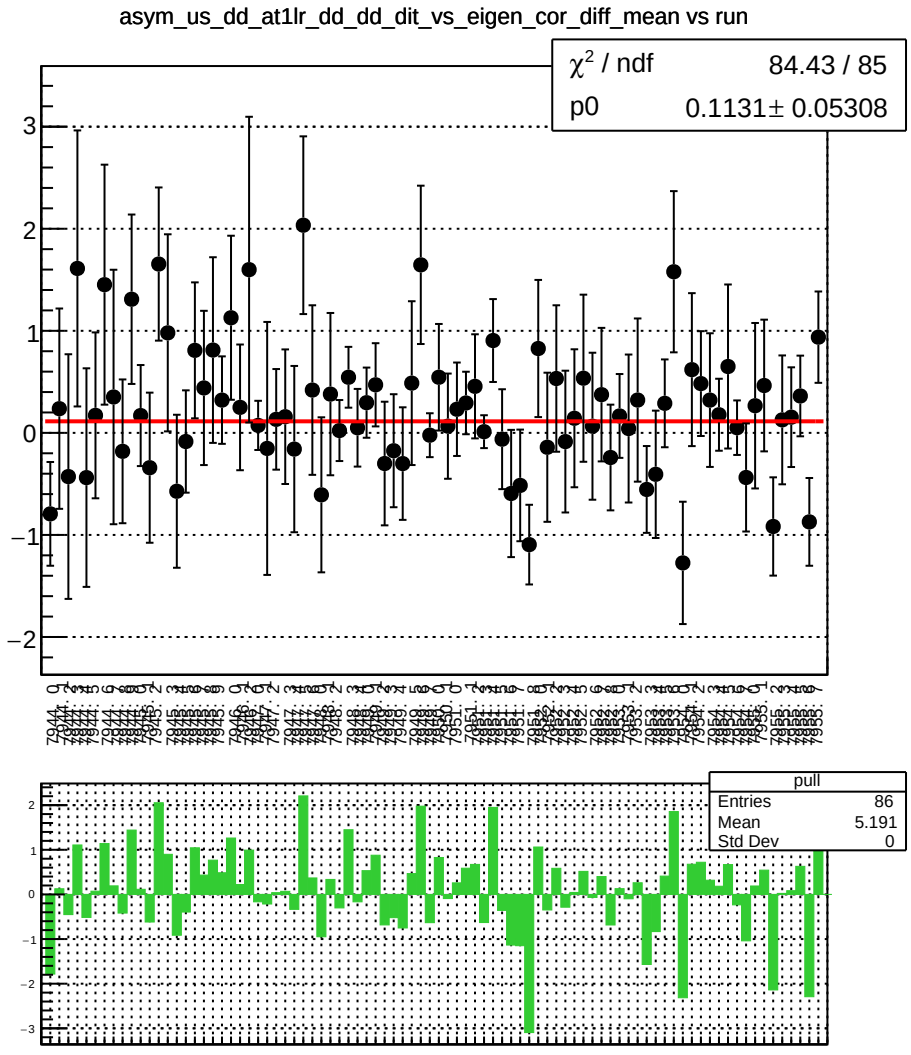

pull1D
Entries 86
Mean 0.1032
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

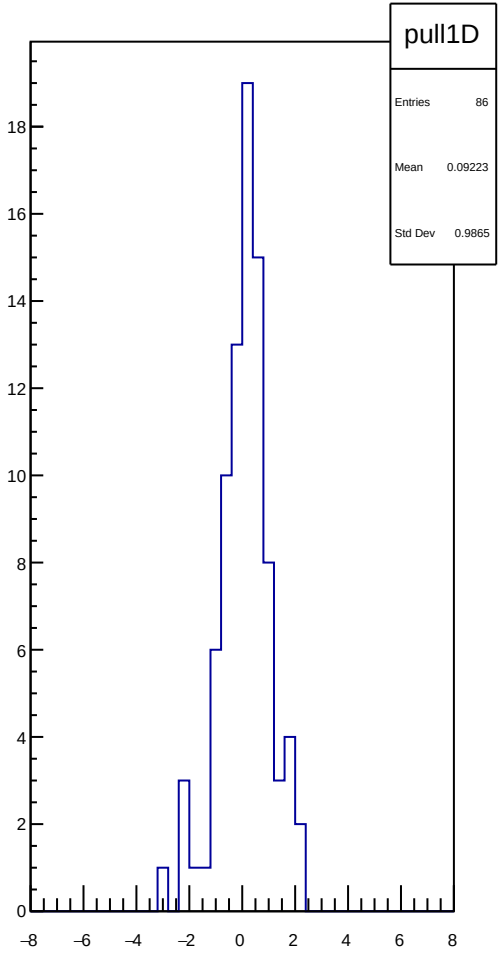

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.128e+06 / 85
p0 1.223e−10 ± 1.744e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

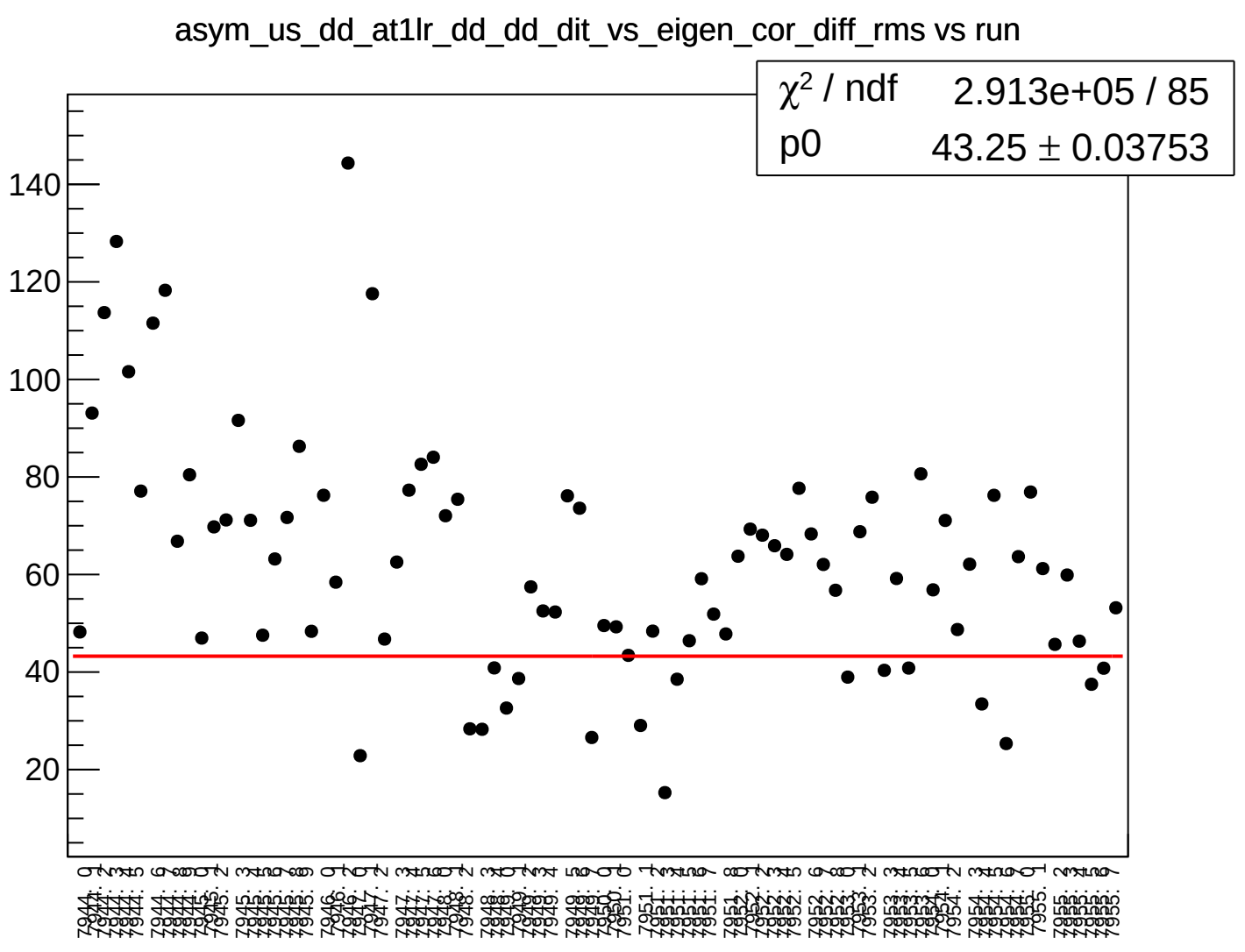

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.43 / 85
p0 0.1131± 0.05308
pull
Entries 86
Mean 5.191
Std Dev 0

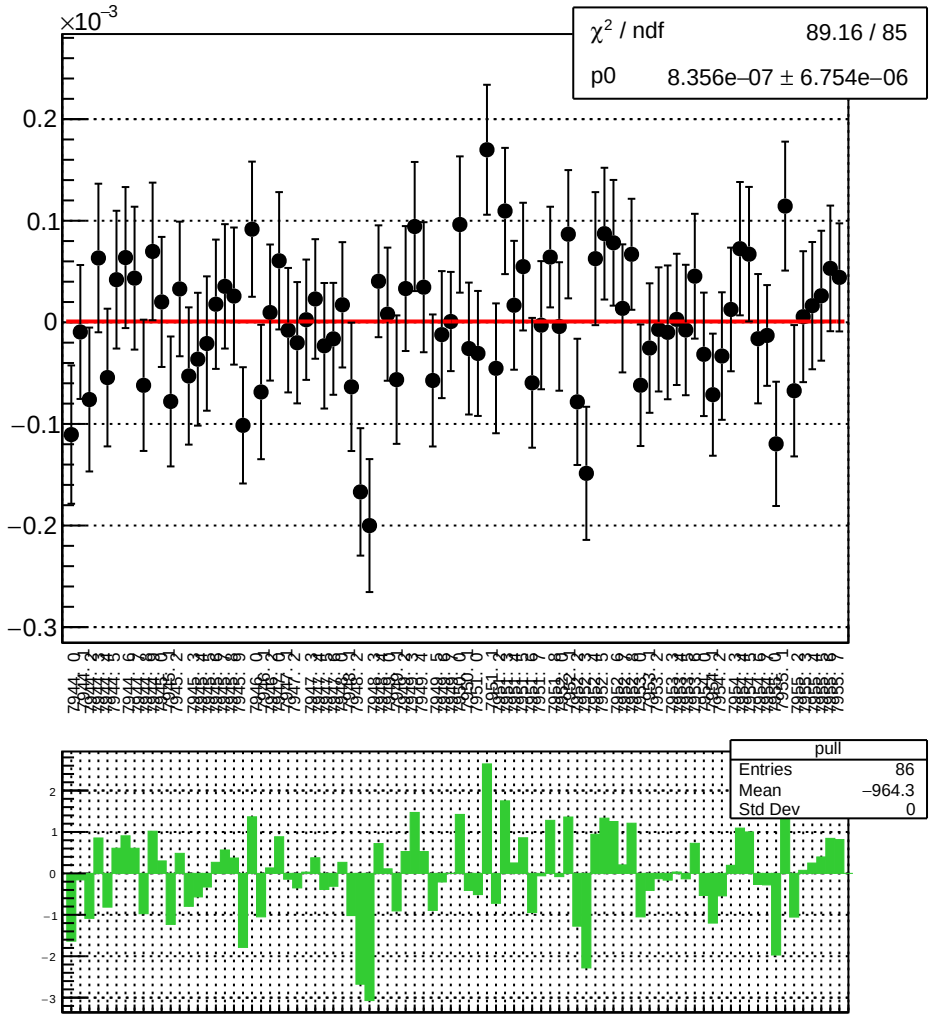

pull1D
Entries 86
Mean 0.09223
Std Dev 0.9865

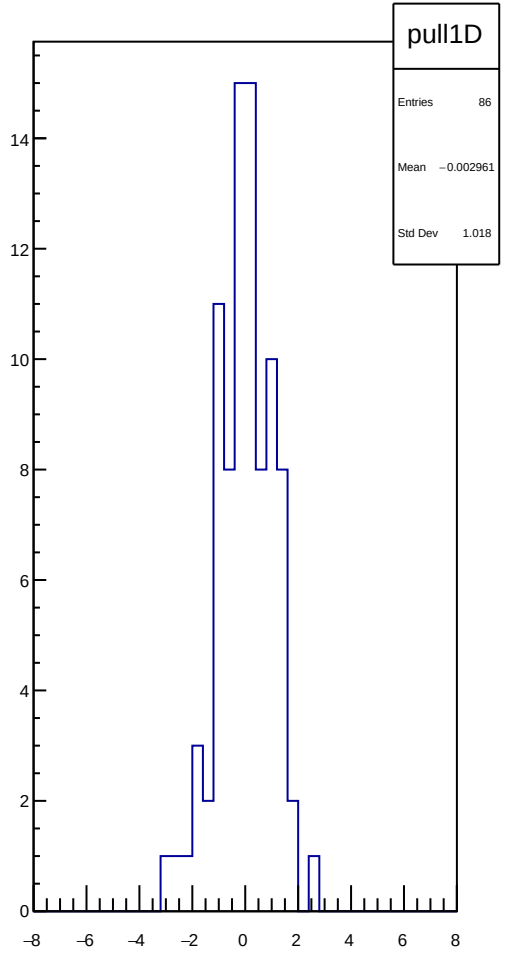

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.913e+05 / 85
p0 43.25 ± 0.03753
140
120
100
80
60
40
20

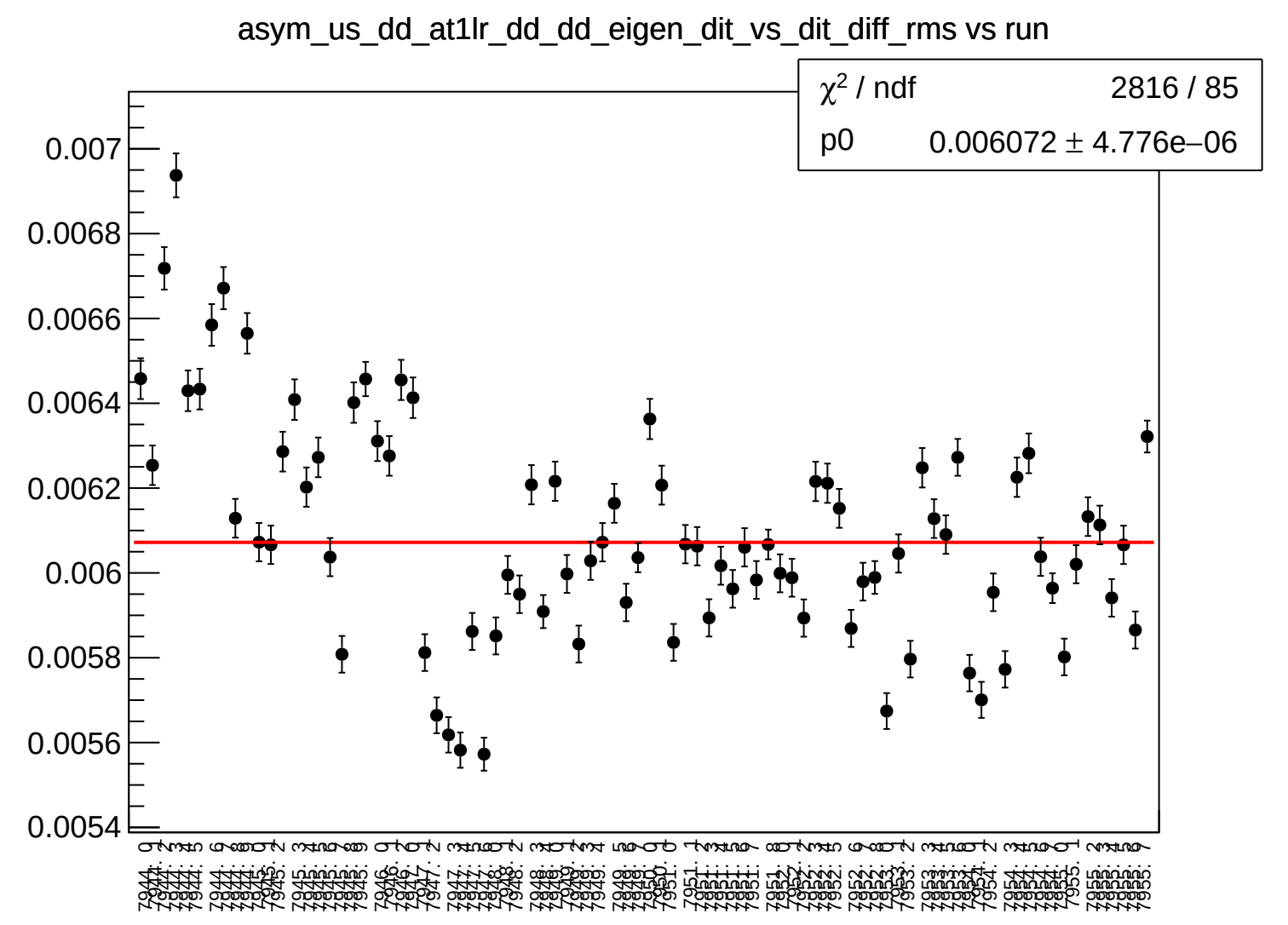

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.43 / 85
p0 0.1131± 0.05308
pull
Entries 86
Mean 5.191
Std Dev 0

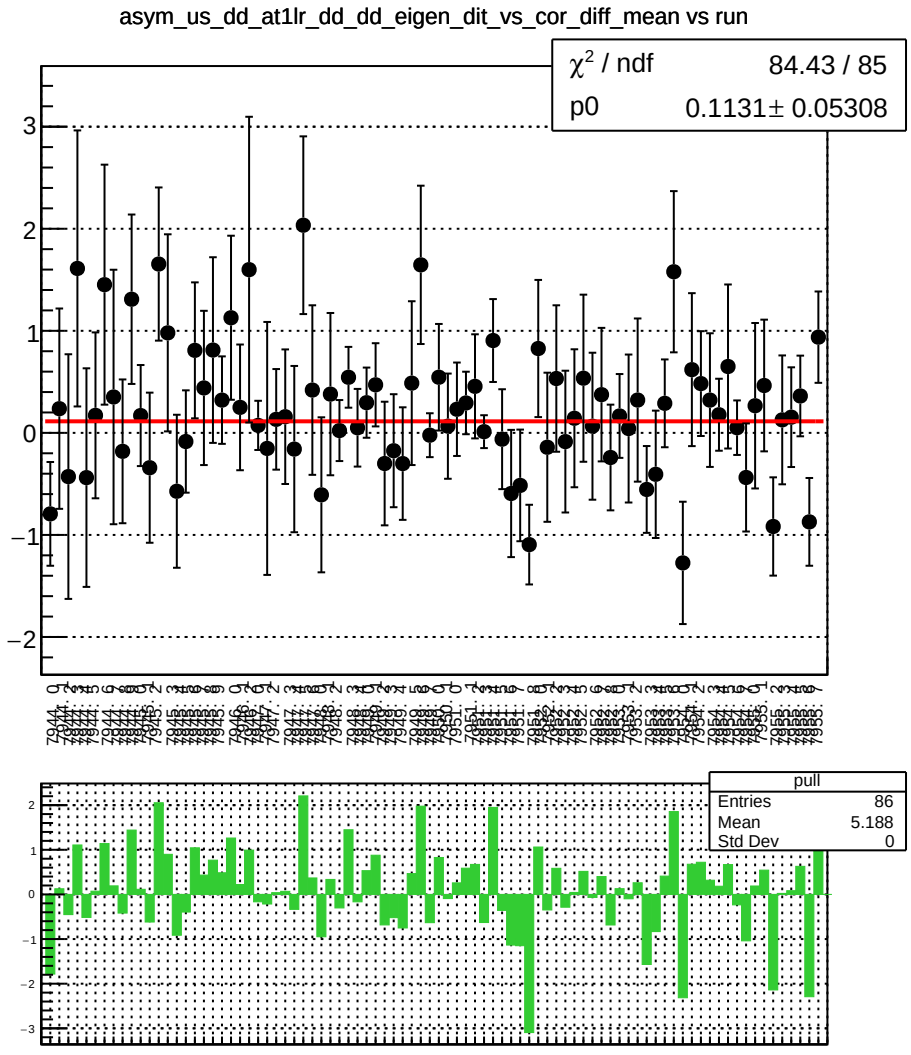

pull1D
Entries 86
Mean 0.09223
Std Dev 0.9865

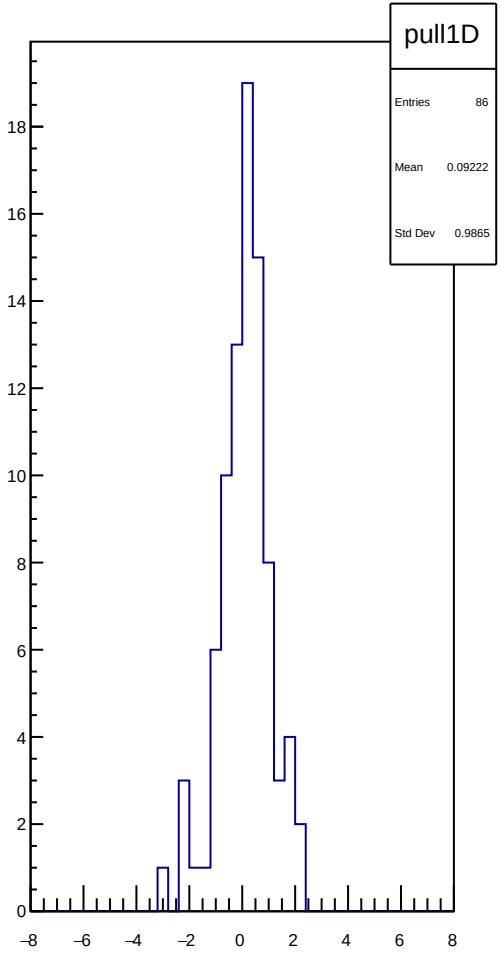

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.913e+05 / 85
p0 43.25 ± 0.03753
140
120
100
80
60
40
20

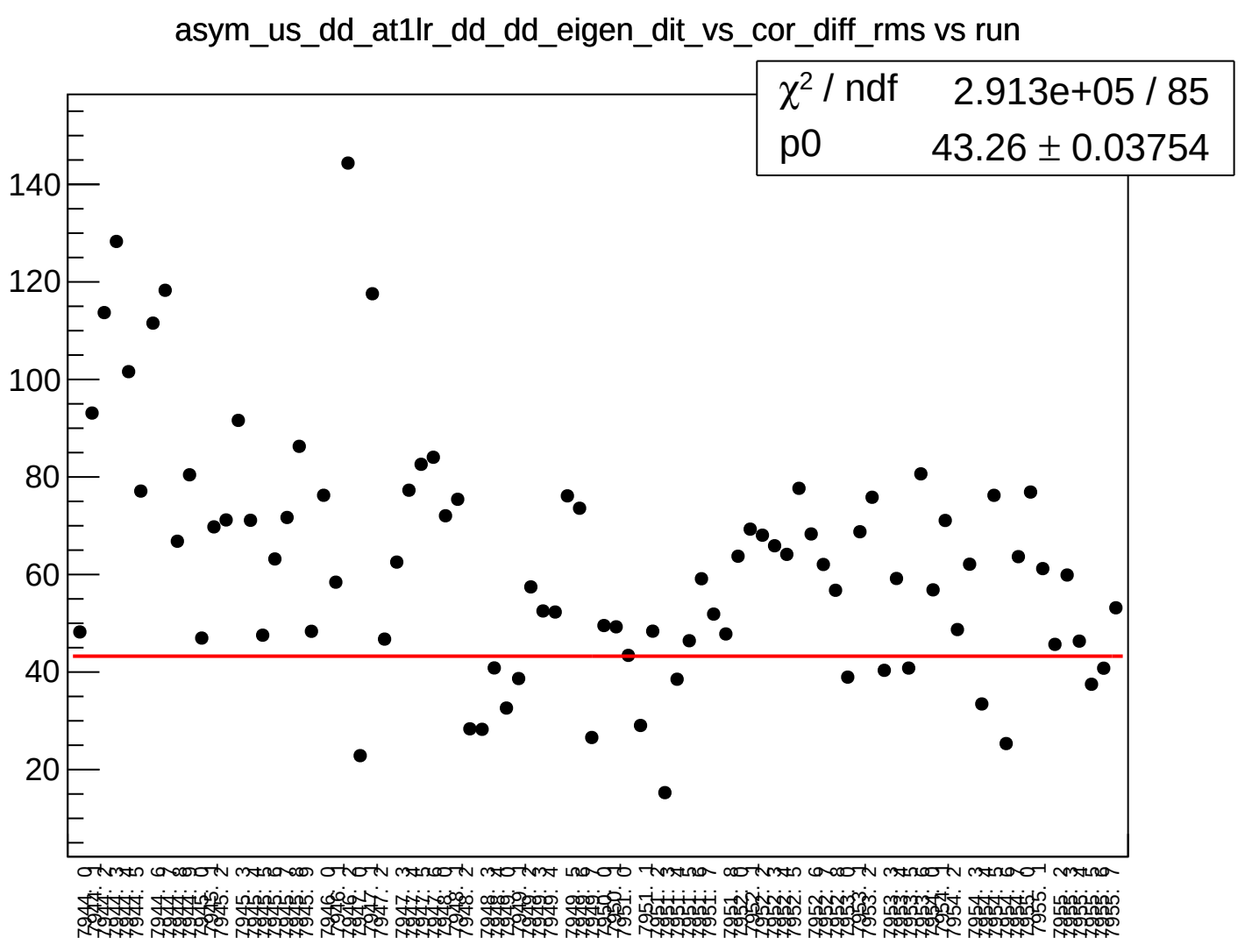

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.16 / 85
p0 8.356e−07 ± 6.754e−06
pull
Entries 86
Mean −964.3
Std Dev 0

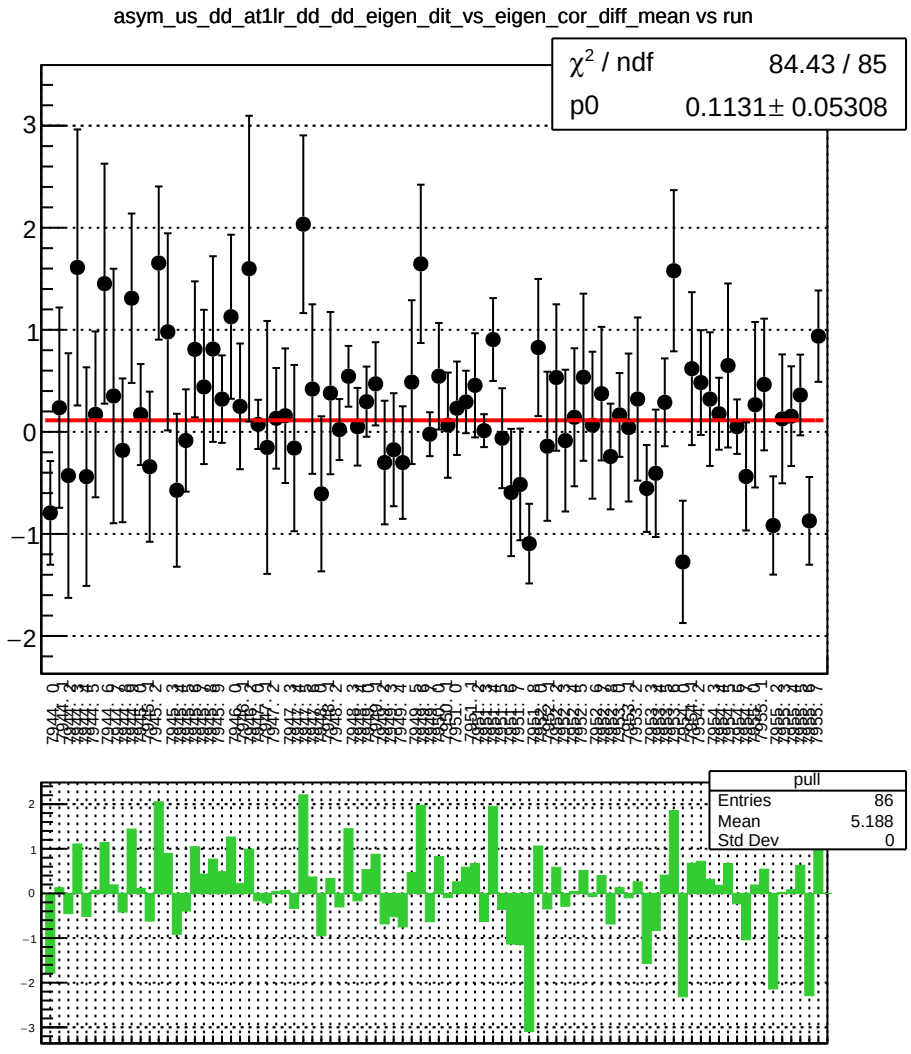

pull1D
Entries 86
Mean −0.002961
Std Dev 1.018

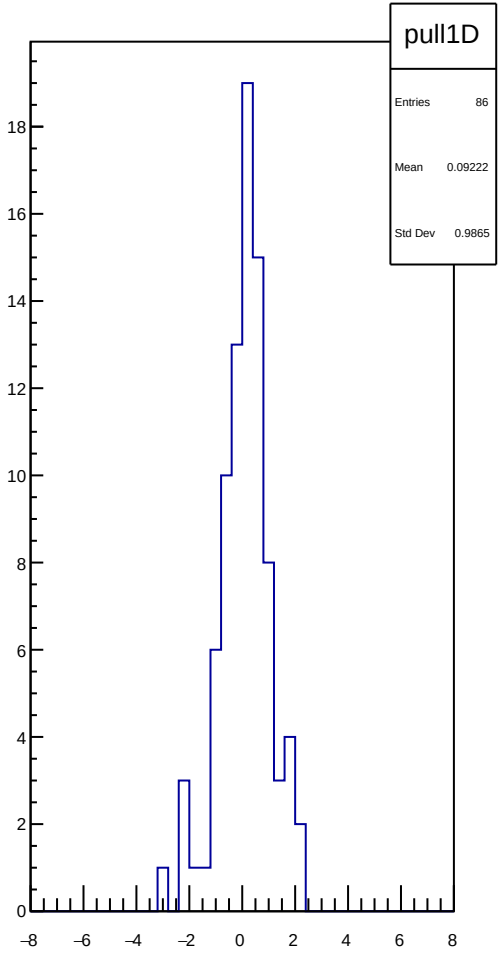

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2816 / 85
p0 0.006072 ± 4.776e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054

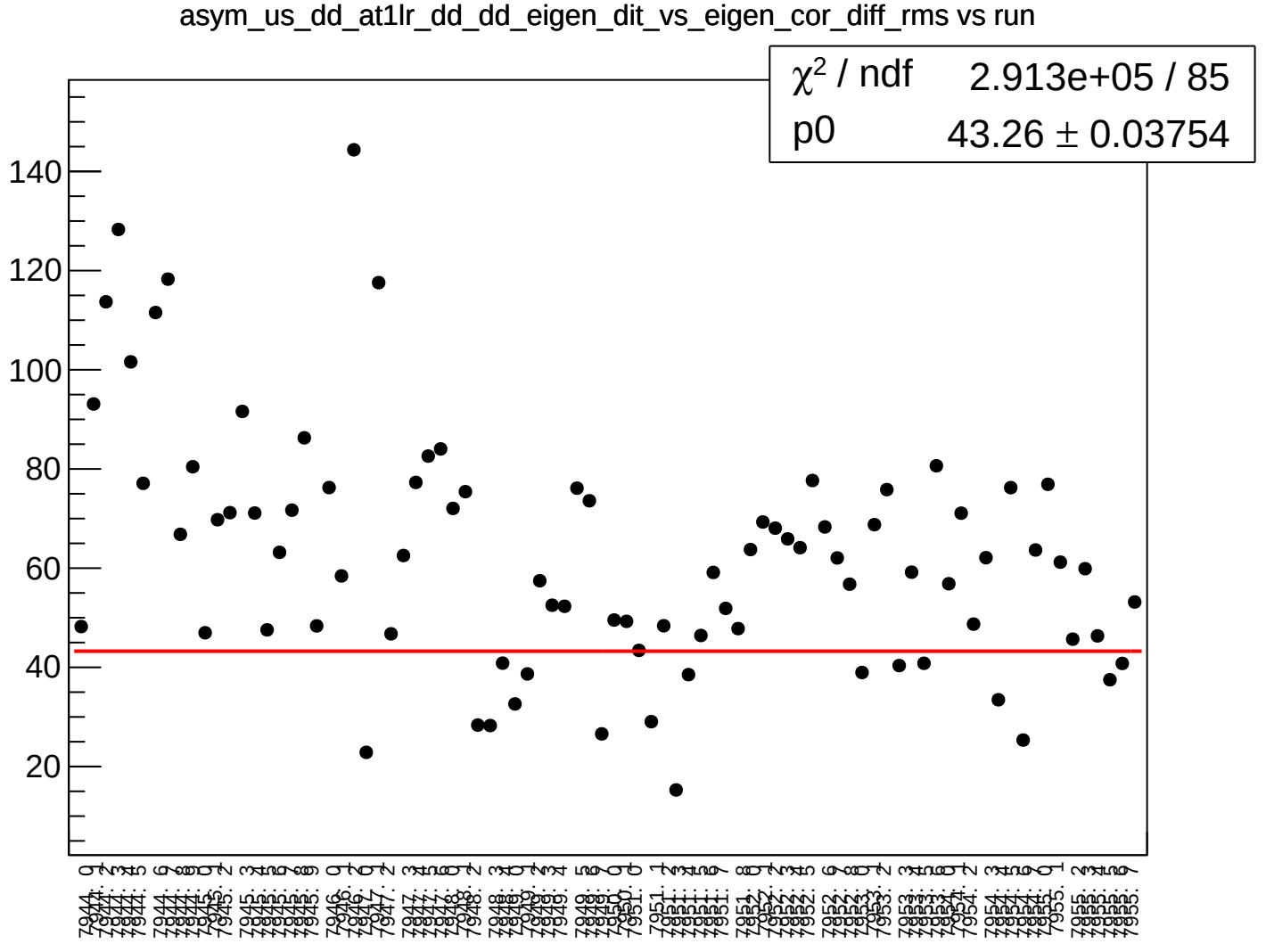

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.43 / 85
p0 0.1131± 0.05308
pull
Entries 86
Mean 5.188
Std Dev 0

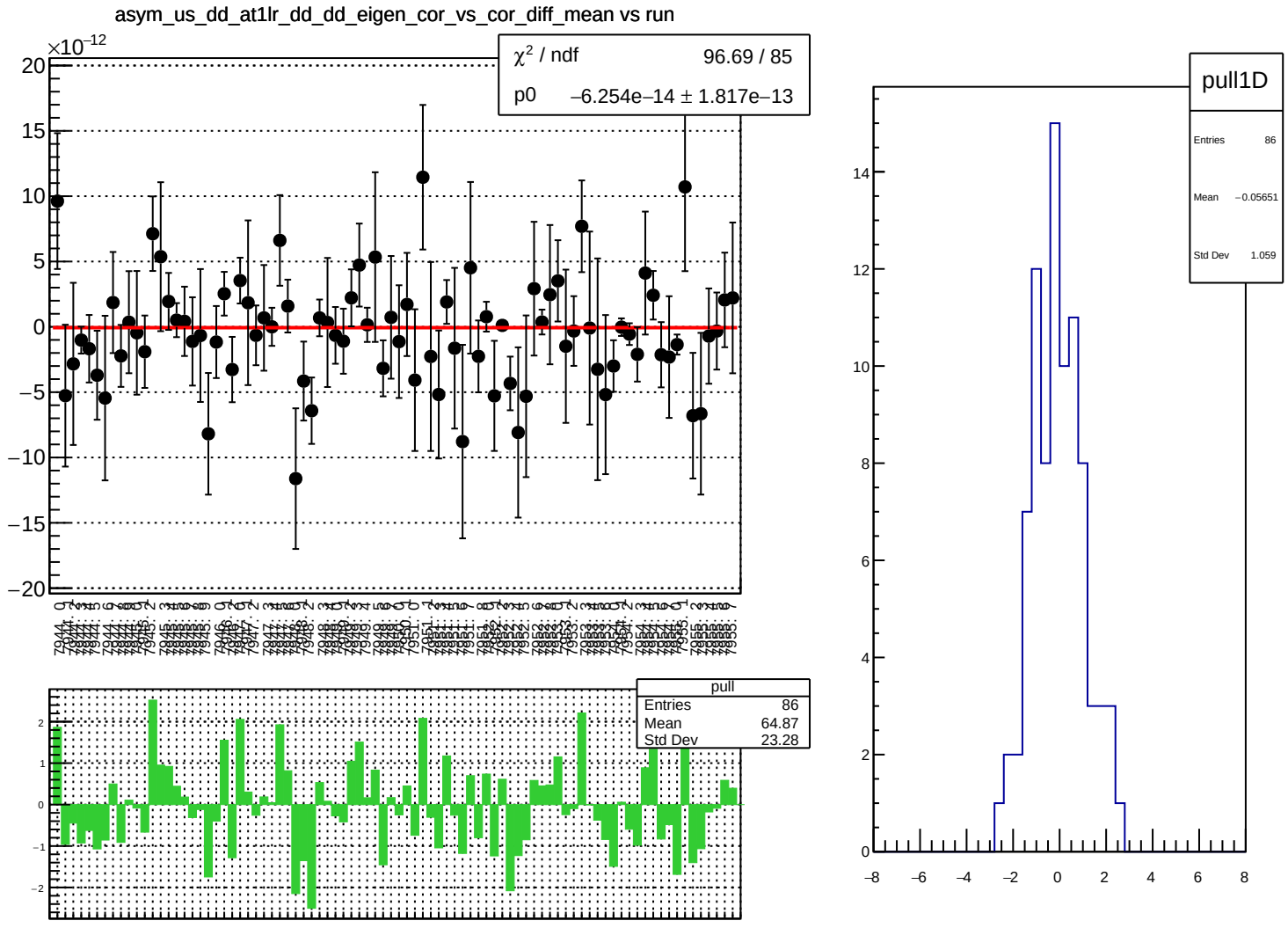

pull1D
Entries 86
Mean 0.09222
Std Dev 0.9865

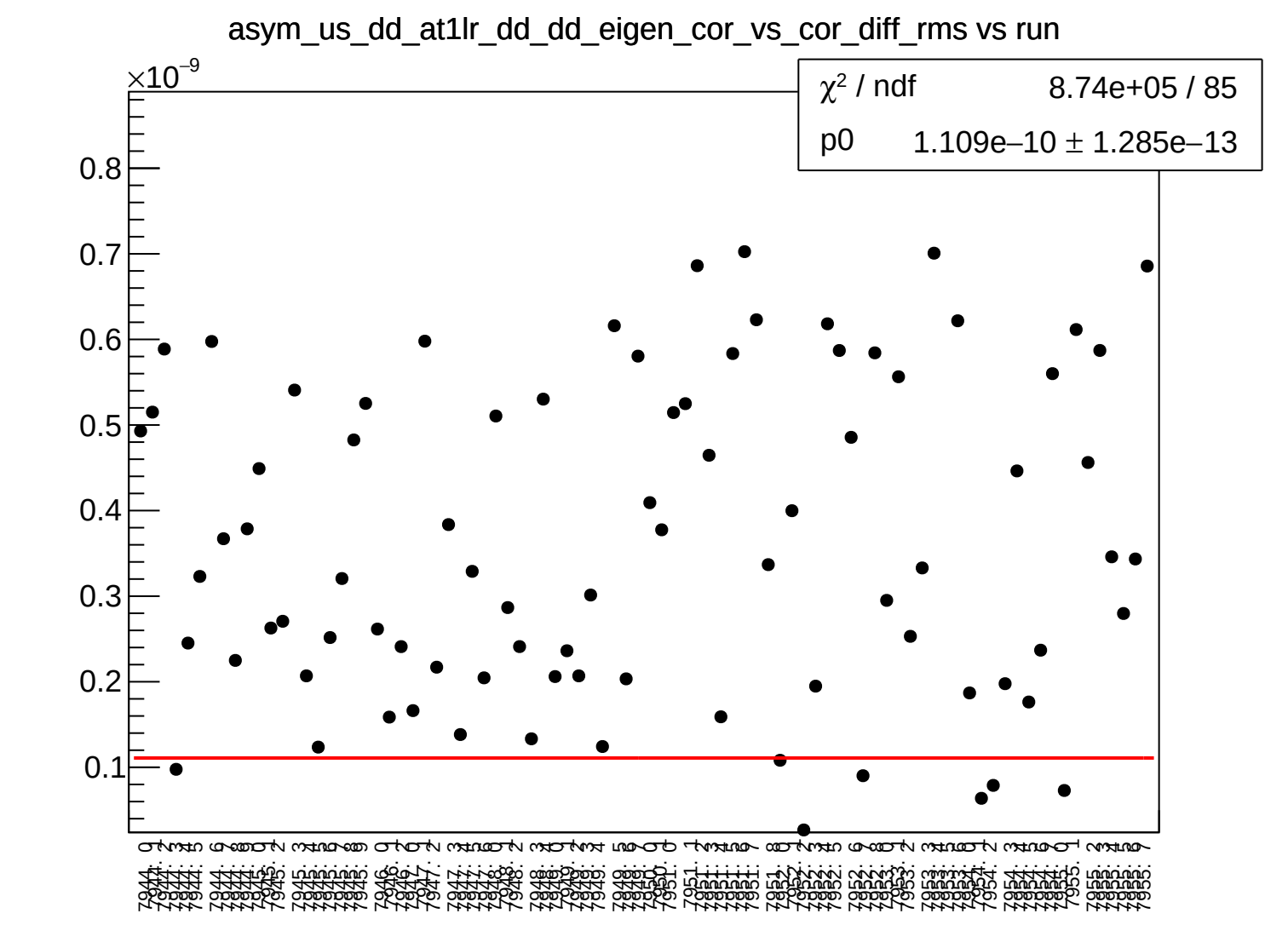

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.913e+05 / 85
p0 43.26 ± 0.03754
140
120
100
80
60
40
20

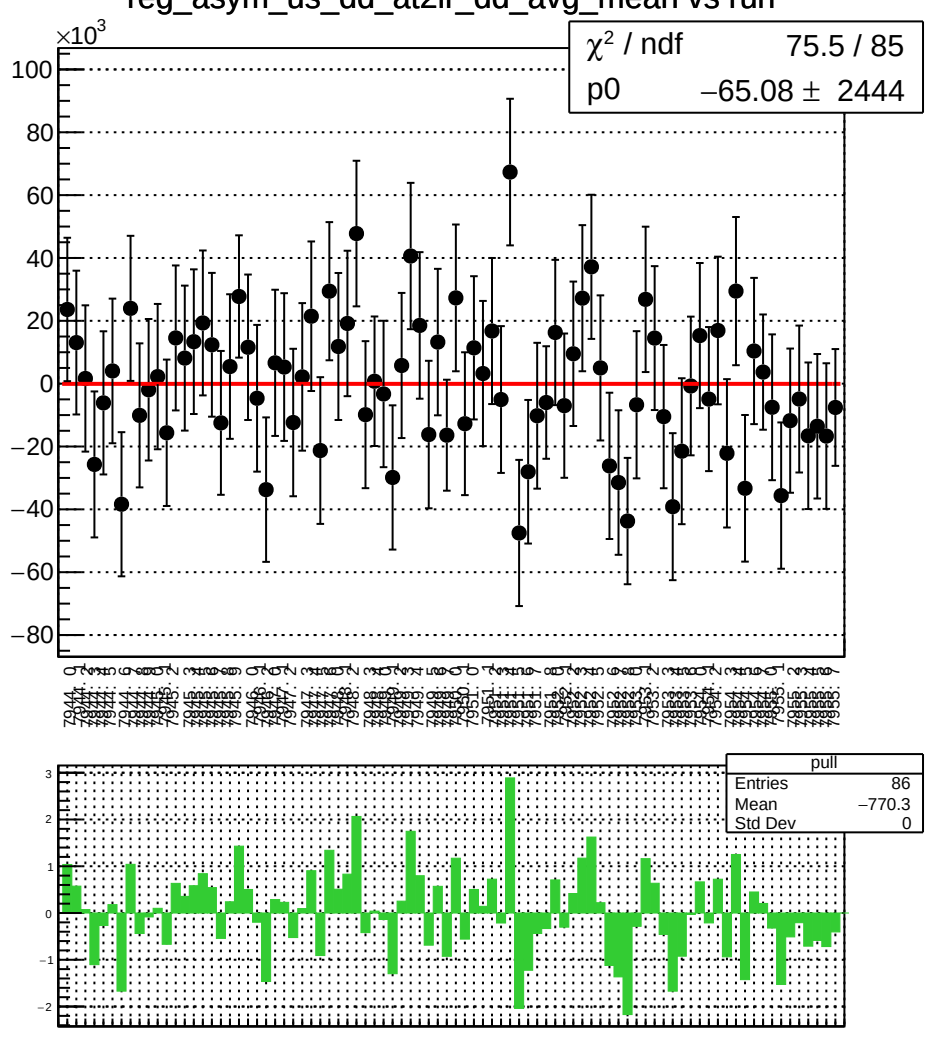

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.43 / 85
p0 0.1131± 0.05308
pull
Entries 86
Mean 5.188
Std Dev 0

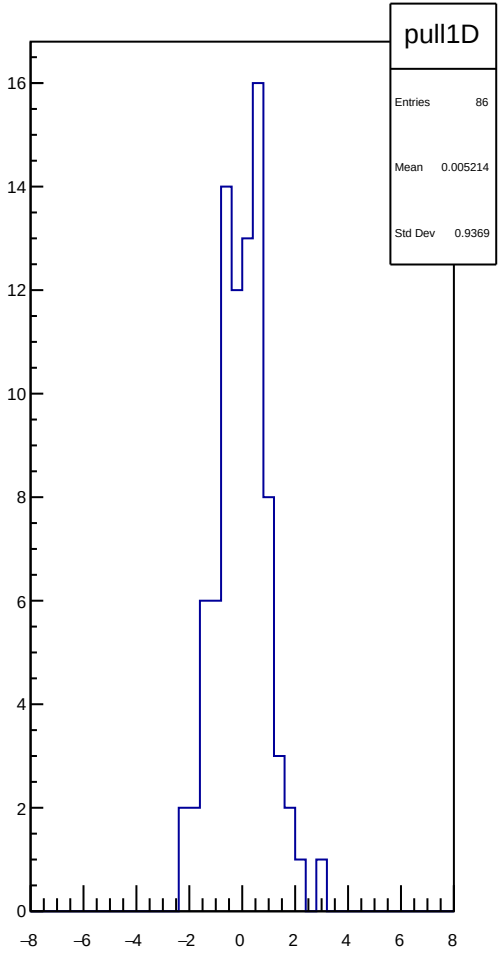

pull1D
Entries 86
Mean 0.09222
Std Dev 0.9865

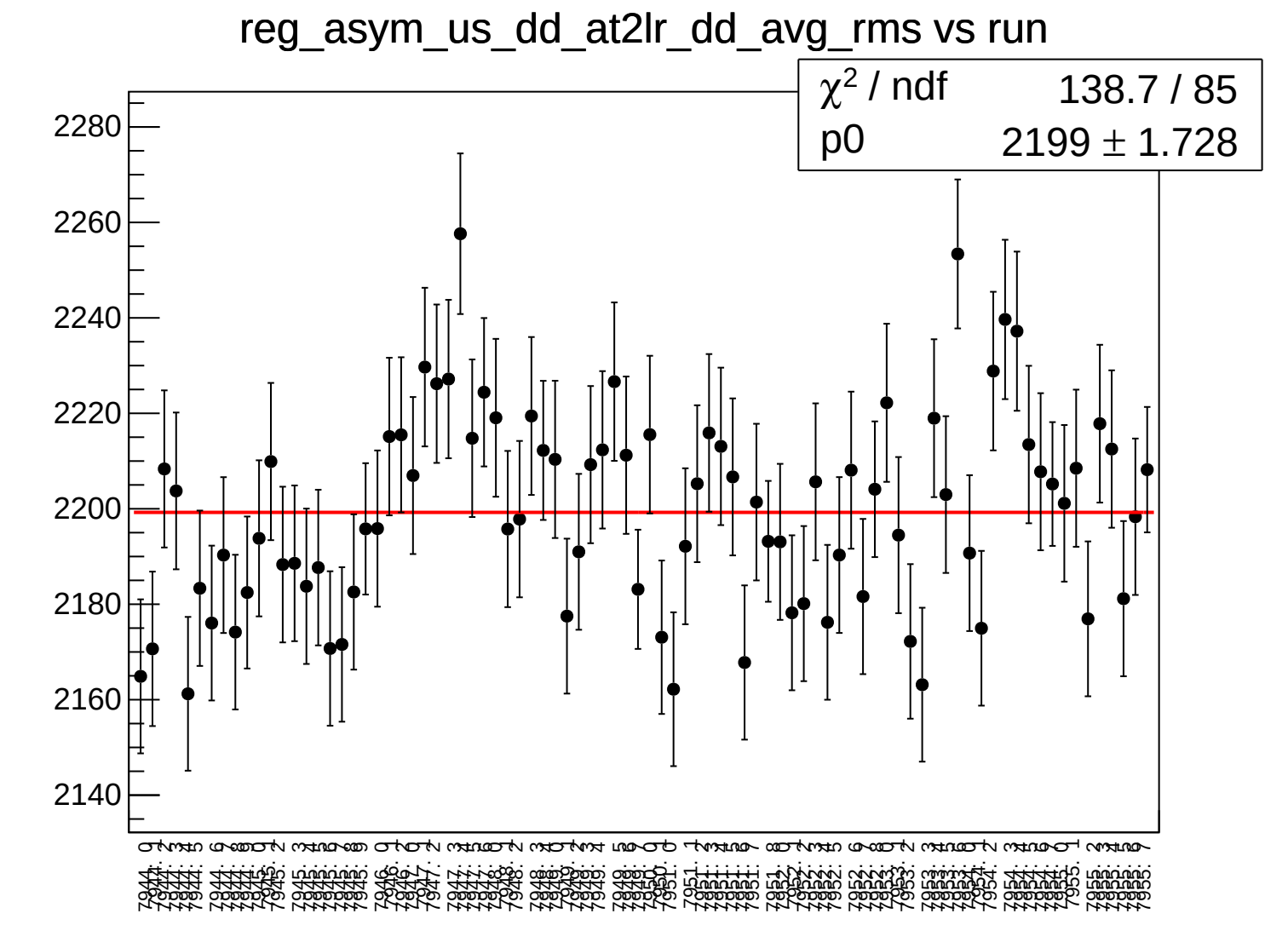

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.913e+05 / 85
p0 43.26 ± 0.03754
140
120
100
80
60
40
20

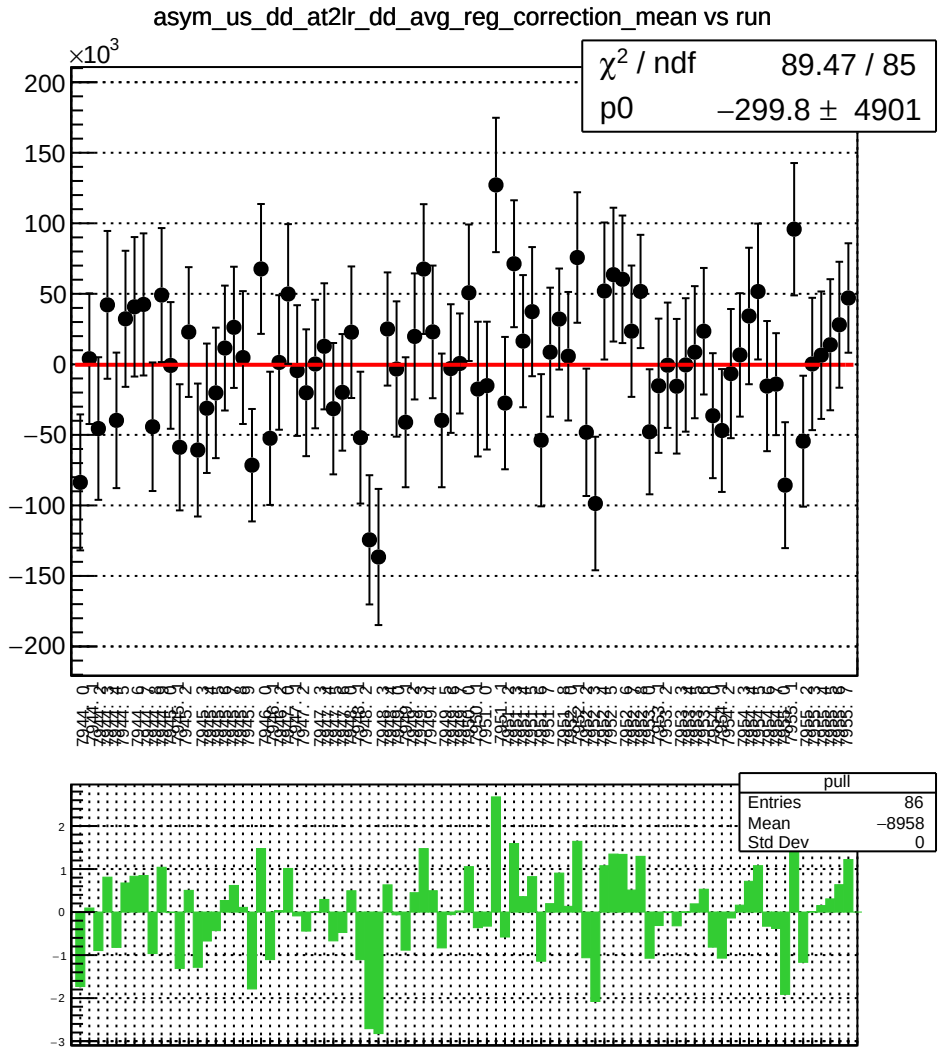

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.69 / 85
p0 −6.254e−14 ± 1.817e−13
pull
Entries 86
Mean 64.87
Std Dev 23.28
pull1D
Entries 86
Mean −0.05651
Std Dev 1.059

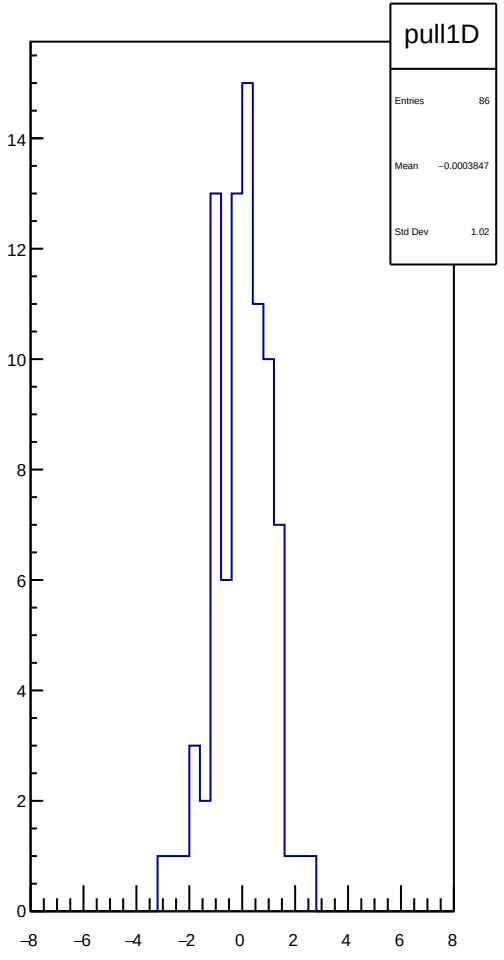

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.74e+05 / 85
p0 1.109e−10 ± 1.285e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

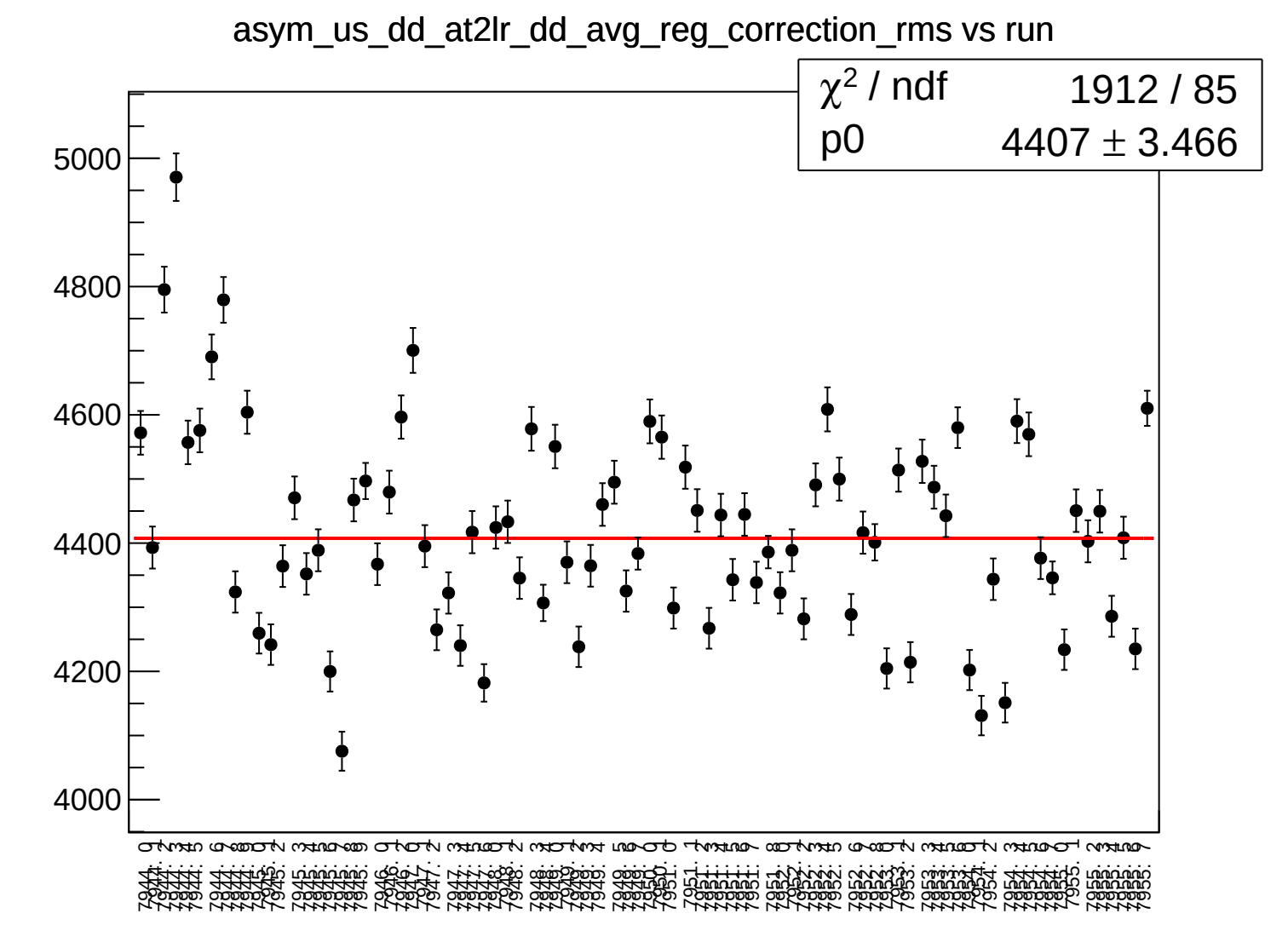

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 75.5 / 85
p0 −65.08 ± 2444
pull
Entries 86
Mean −770.3
Std Dev 0

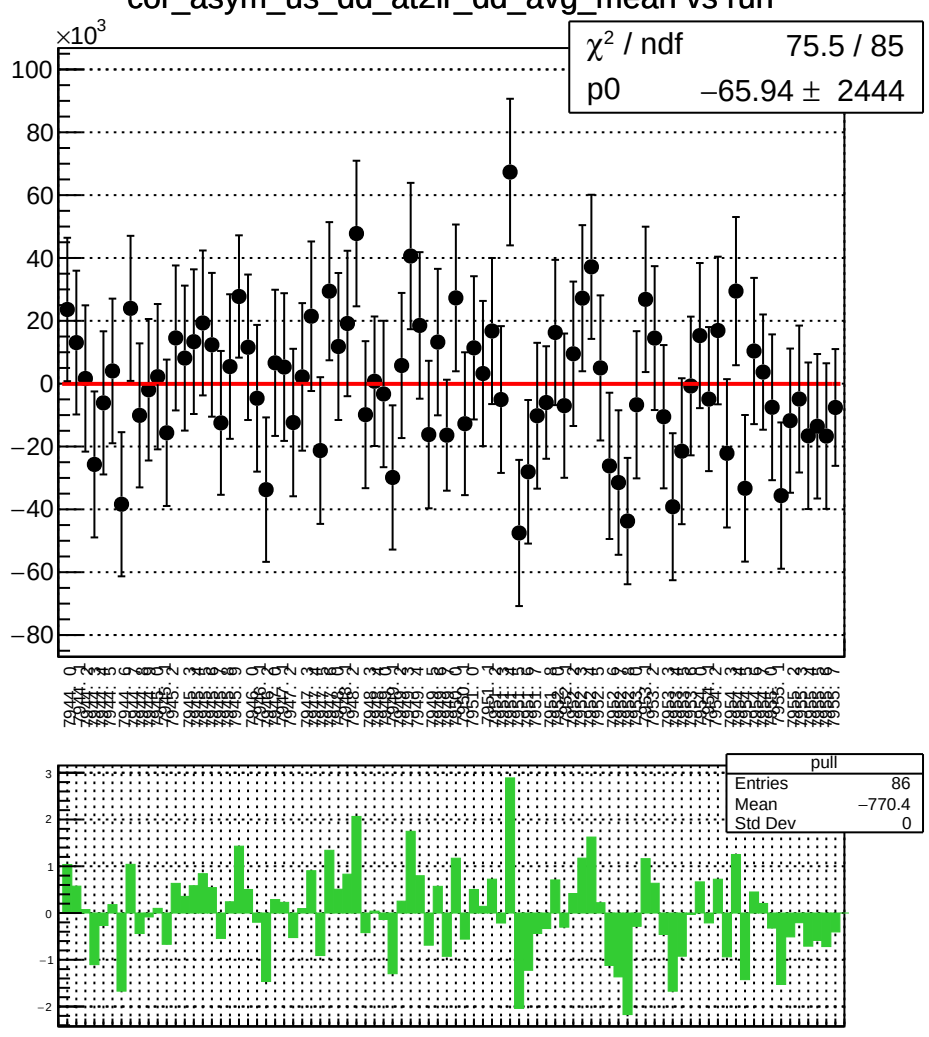

pull1D
Entries 86
Mean 0.005214
Std Dev 0.9369

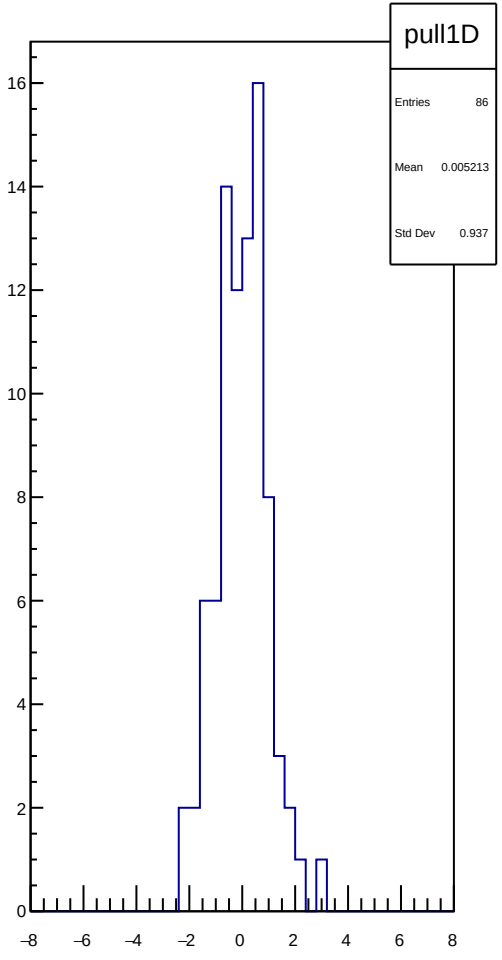

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 138.7 / 85
p0 2199 ± 1.728
2280
2260
2240
2220
2200
2180
2160
2140

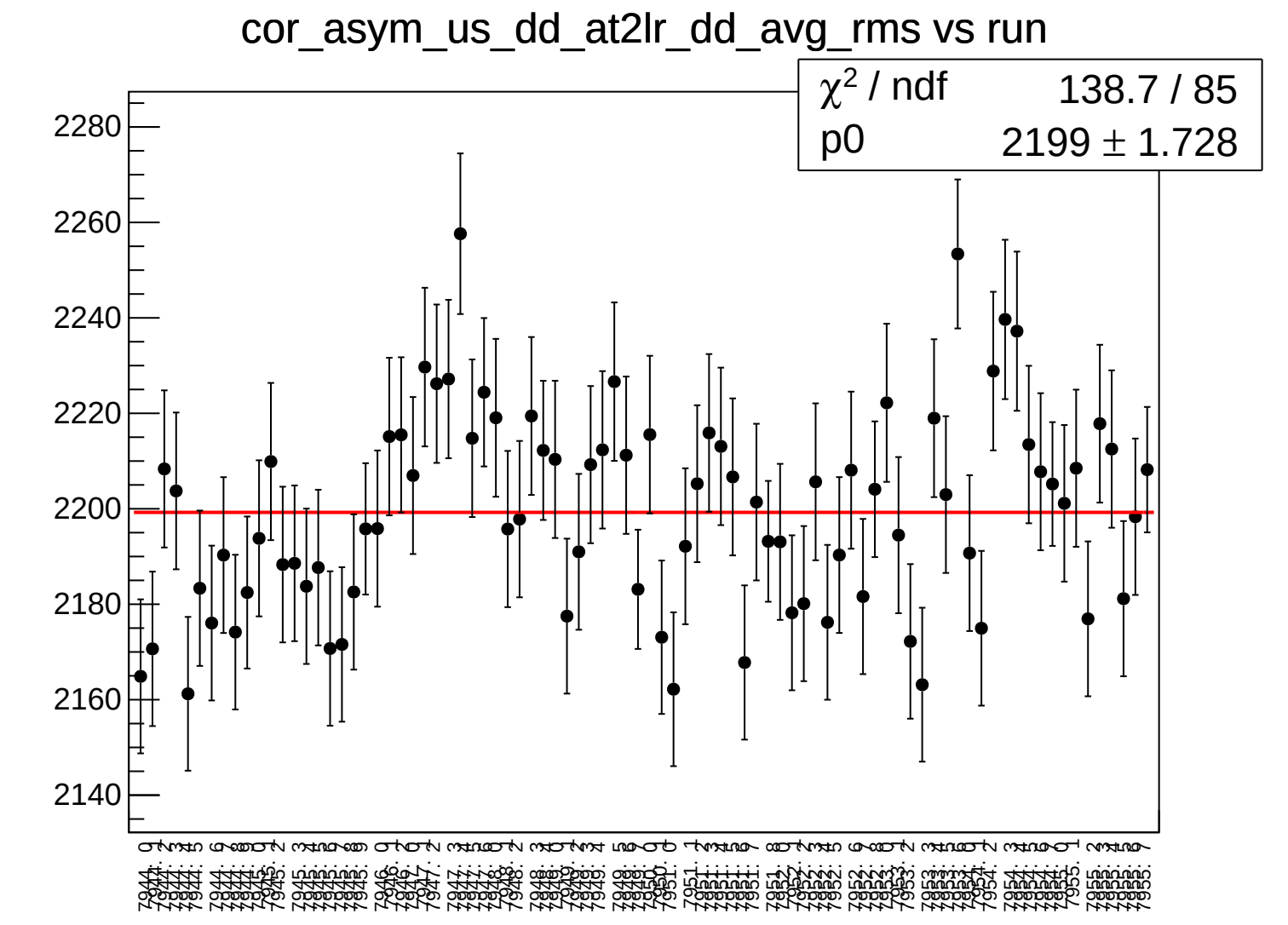

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.47 / 85
p0 −299.8 ± 4901
pull
Entries 86
Mean −8958
Std Dev 0

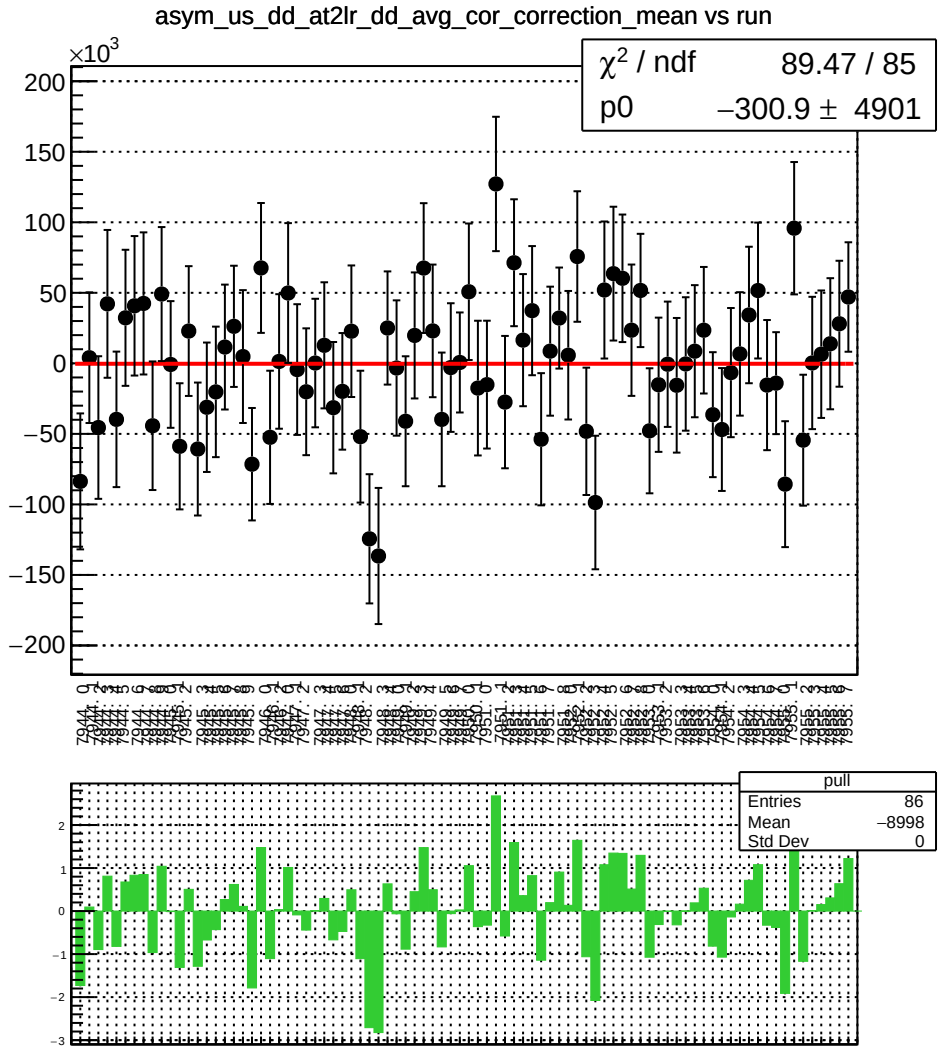

pull1D
Entries 86
Mean −0.0003847
Std Dev 1.02

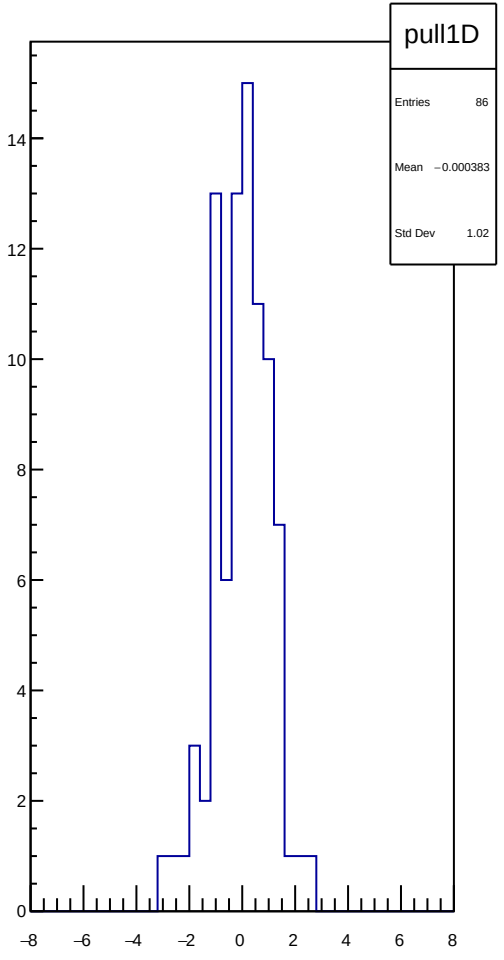

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1912 / 85
p0 4407 ± 3.466
5000
4800
4600
4400
4200
4000

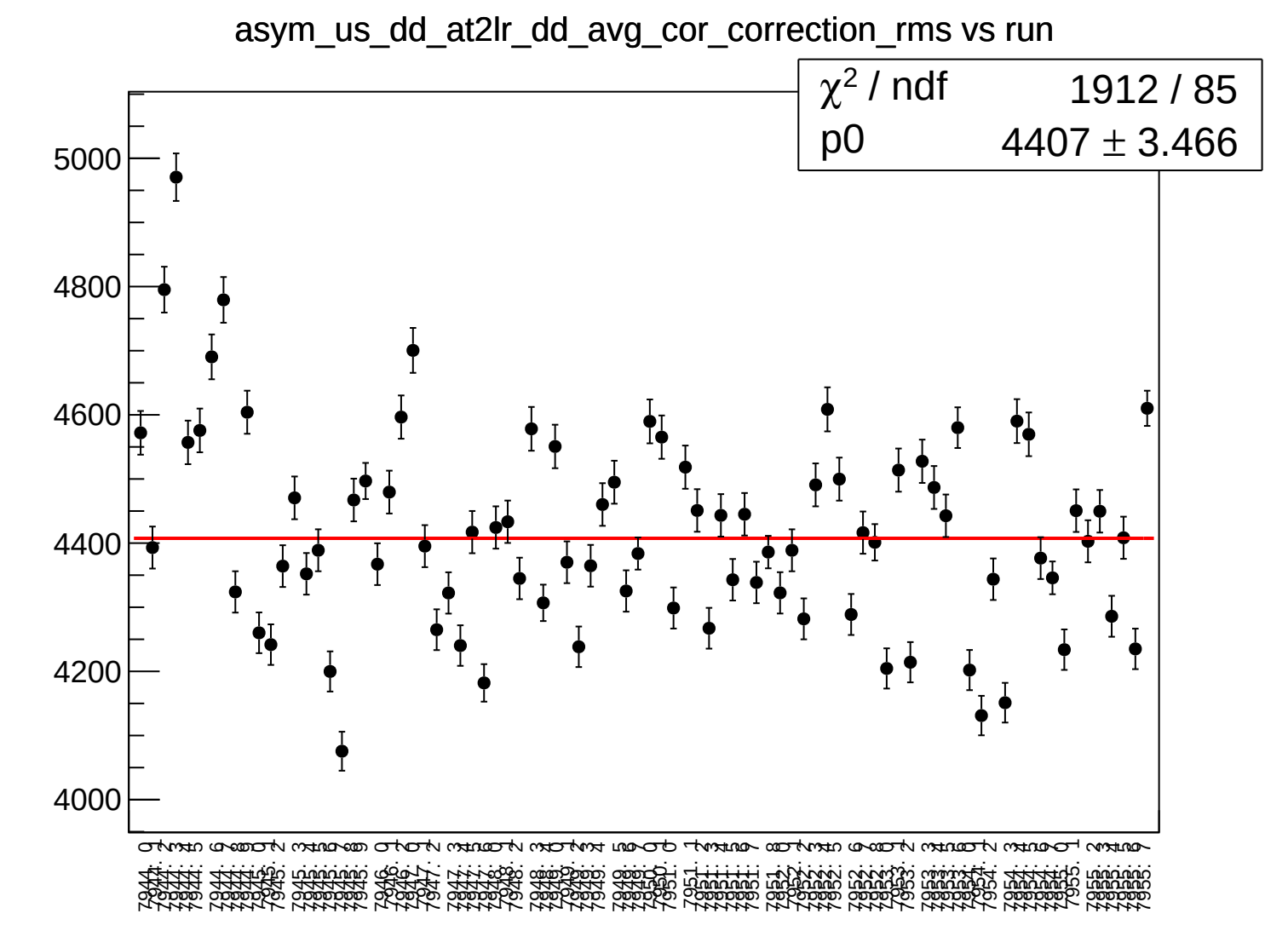

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 75.5 / 85
p0 −65.94 ± 2444
pull
Entries 86
Mean −770.4
Std Dev 0

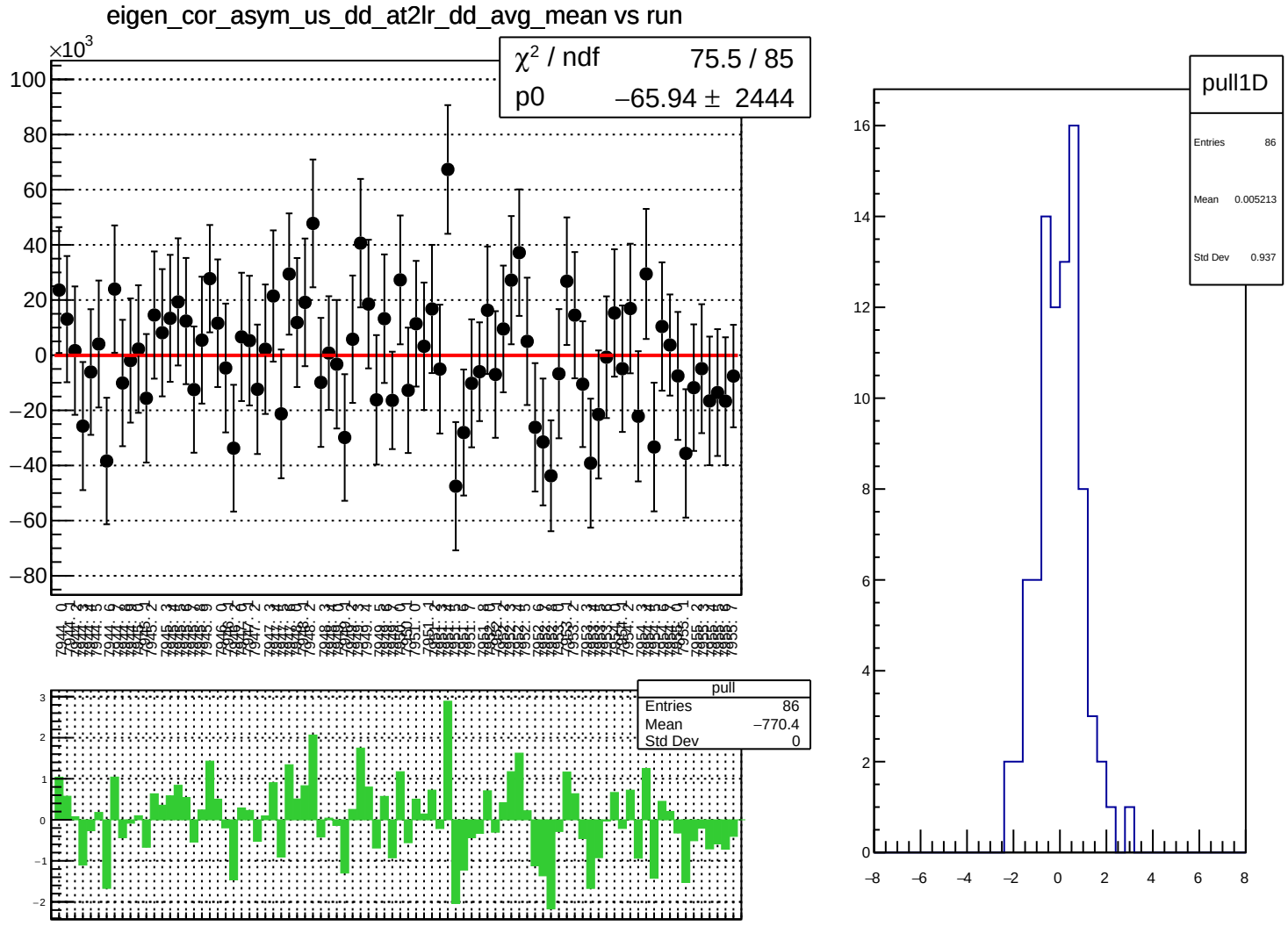

pull1D
Entries 86
Mean 0.005213
Std Dev 0.937

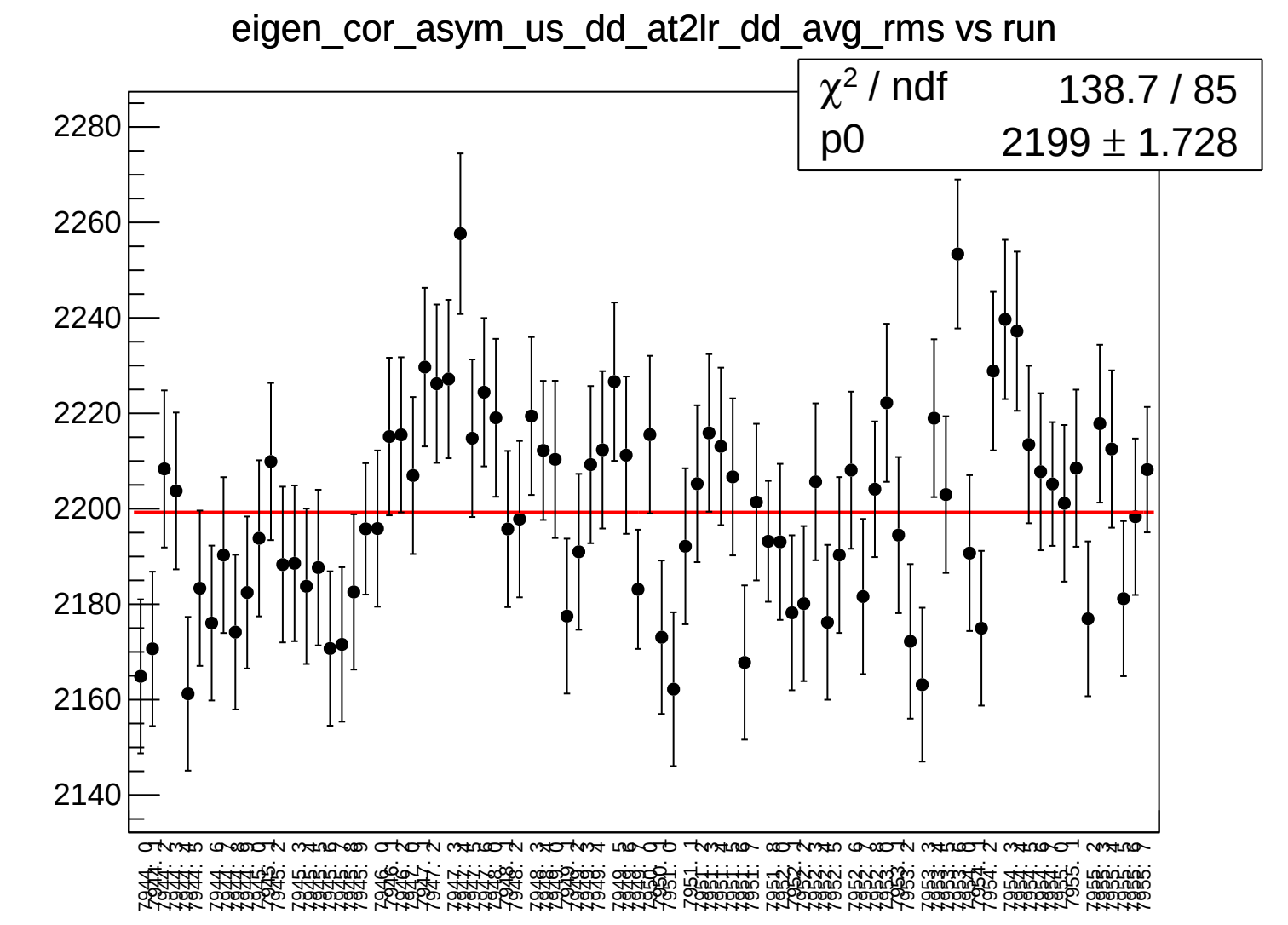

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 138.7 / 85
p0 2199 ± 1.728
2280
2260
2240
2220
2200
2180
2160
2140

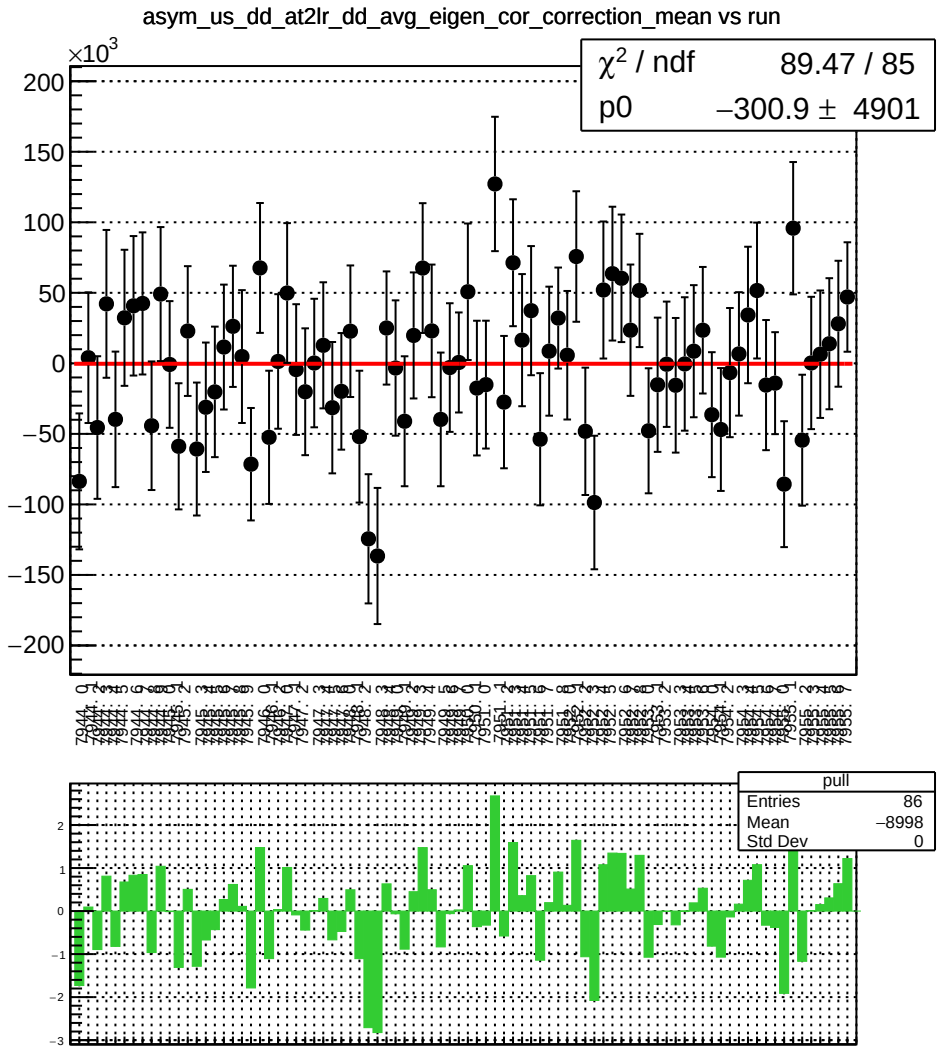

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.47 / 85
p0 −300.9 ± 4901
pull
Entries 86
Mean −8998
Std Dev 0

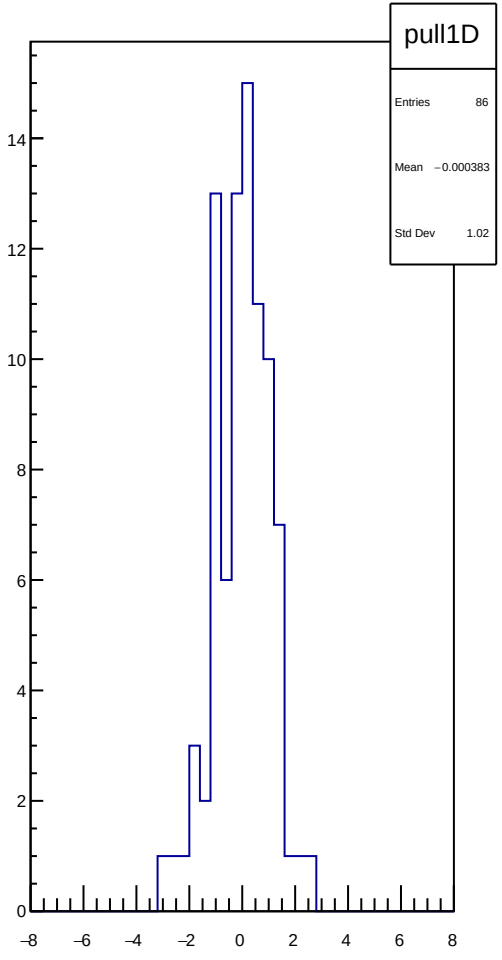

pull1D
Entries 86
Mean −0.000383
Std Dev 1.02

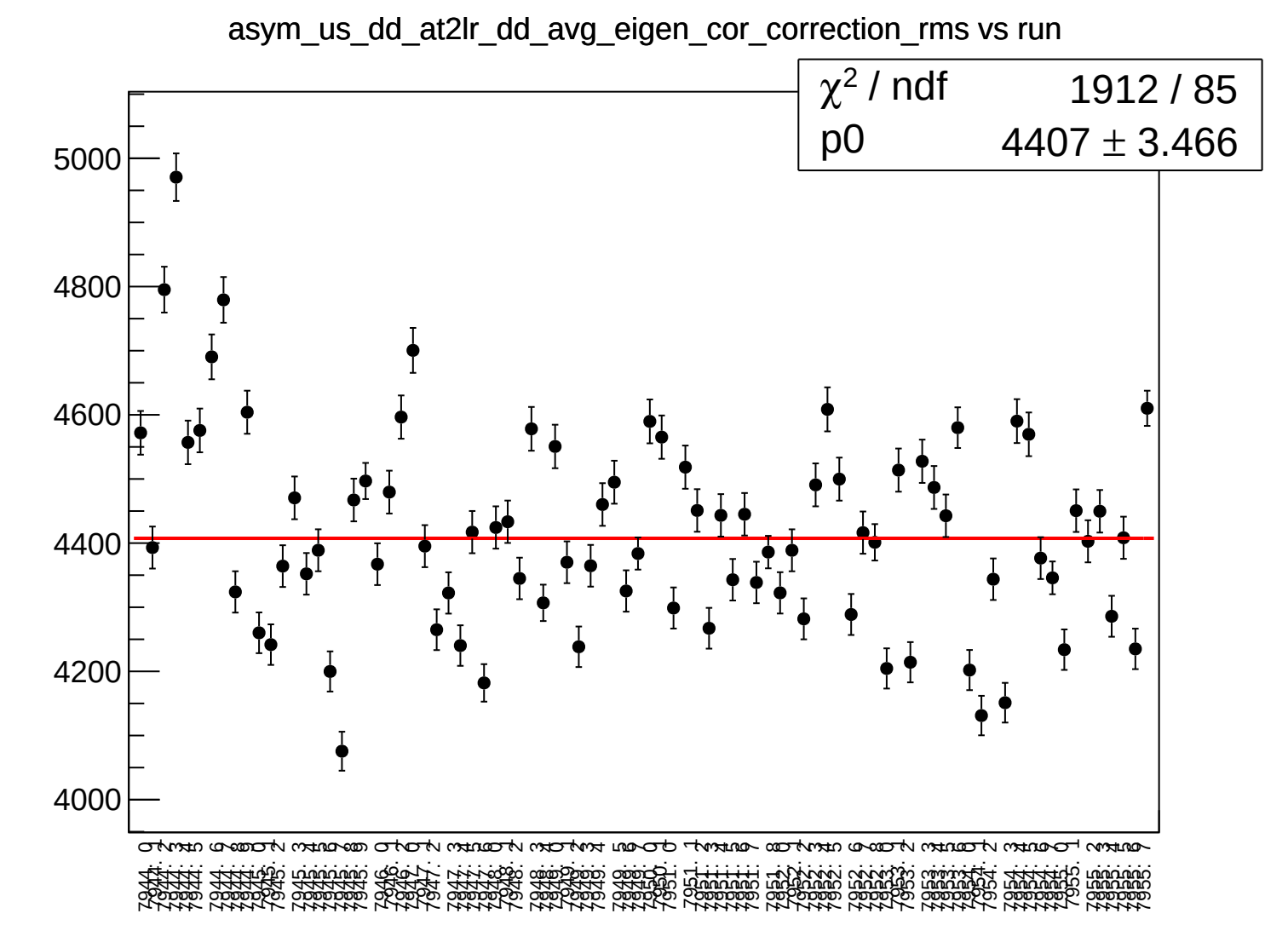

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1912 / 85
p0 4407 ± 3.466
5000
4800
4600
4400
4200
4000

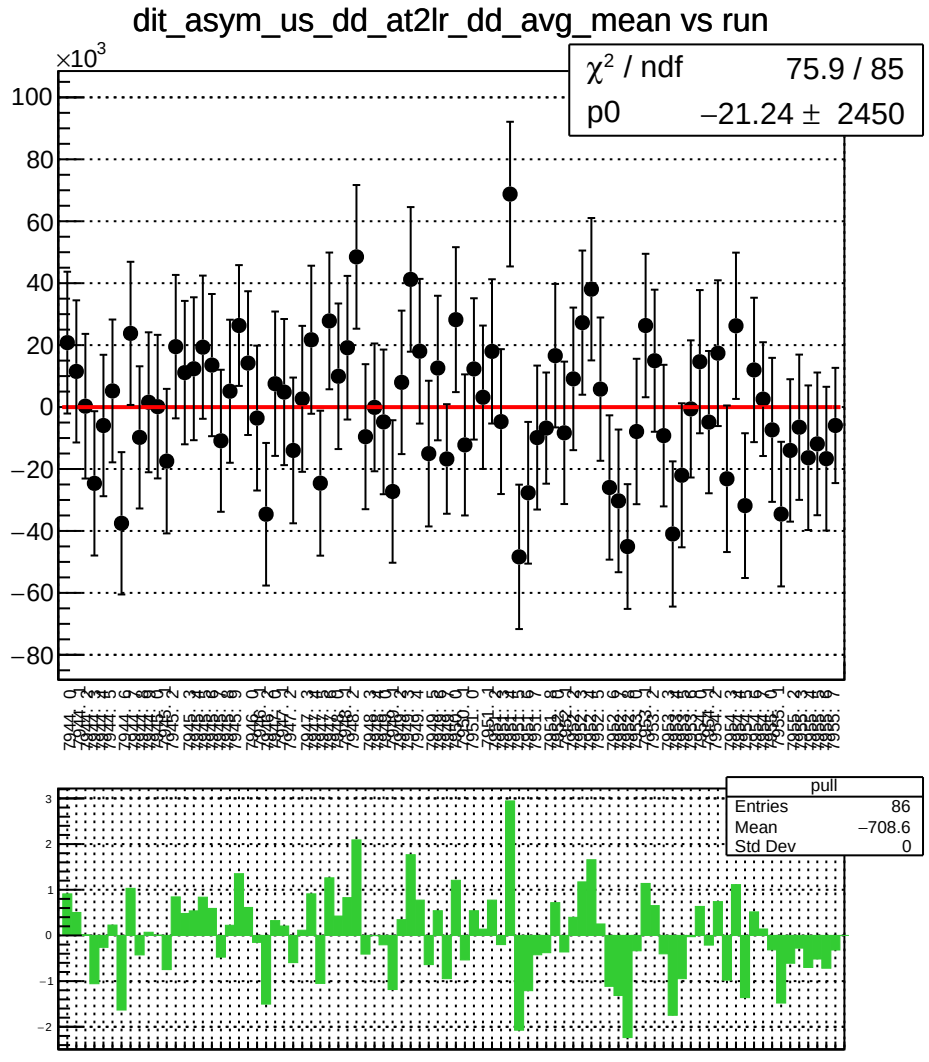

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 75.5 / 85
p0 −65.94 ± 2444
pull
Entries 86
Mean −770.4
Std Dev 0
pull1D
Entries 86
Mean 0.005213
Std Dev 0.937

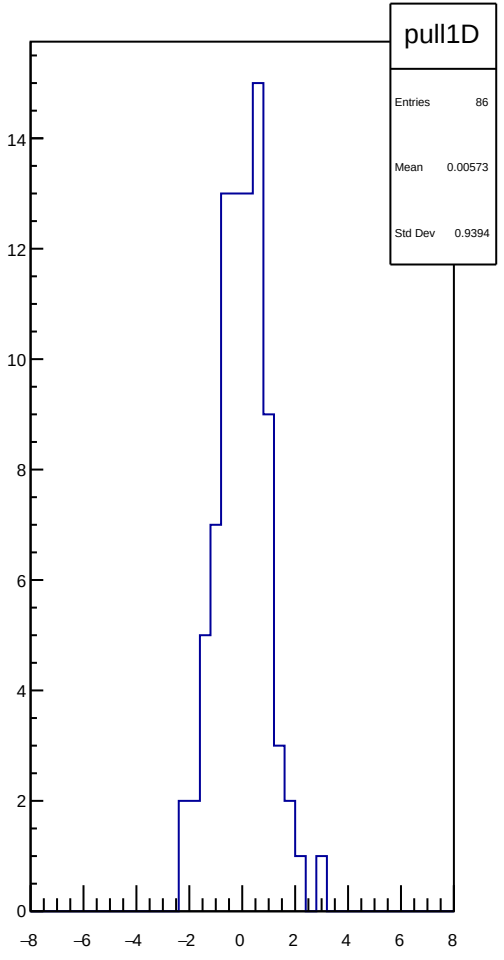

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 138.7 / 85
p0 2199 ± 1.728
2280
2260
2240
2220
2200
2180
2160
2140

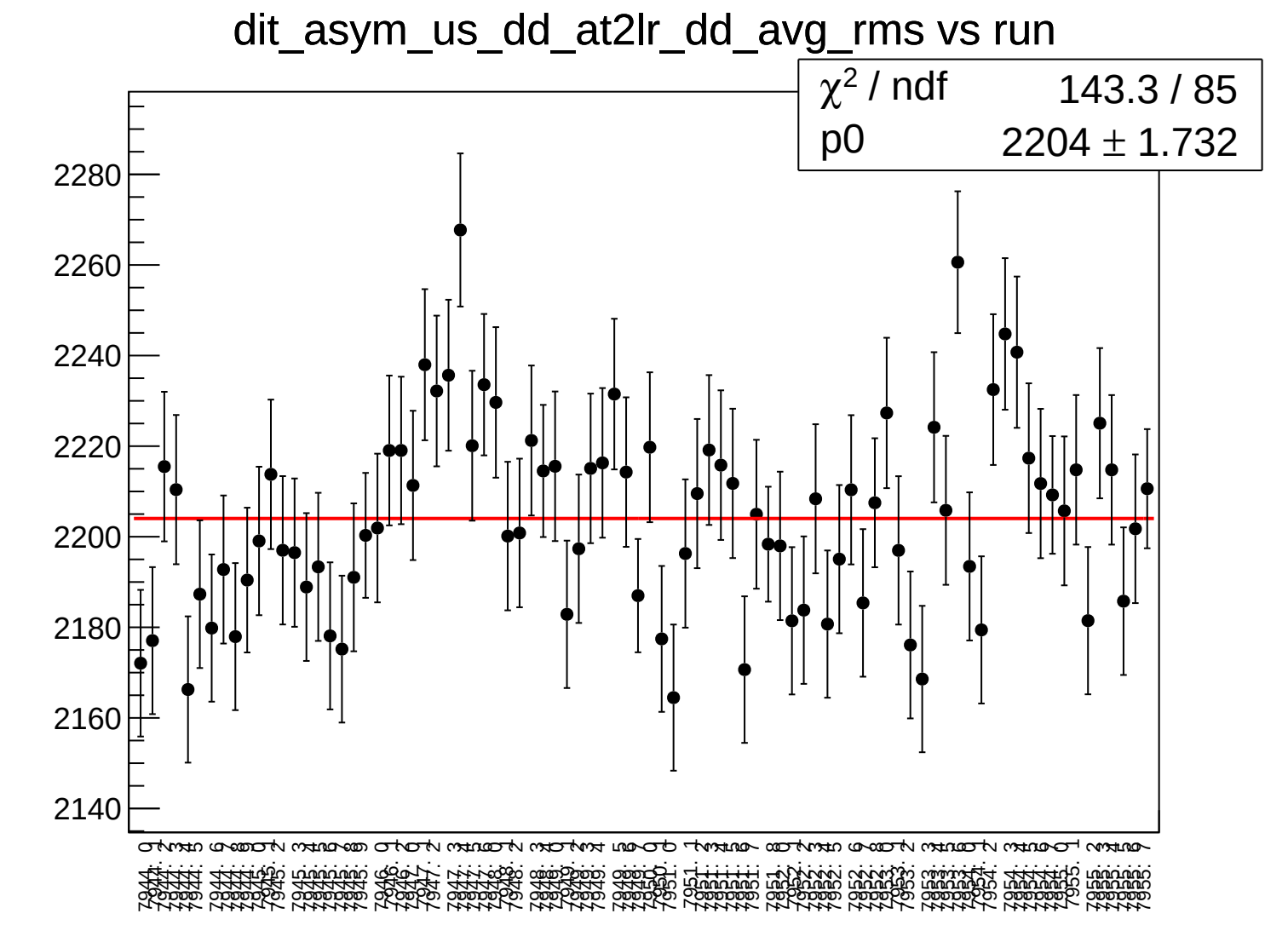

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.47 / 85
p0 −300.9 ± 4901
pull
Entries 86
Mean −8998
Std Dev 0

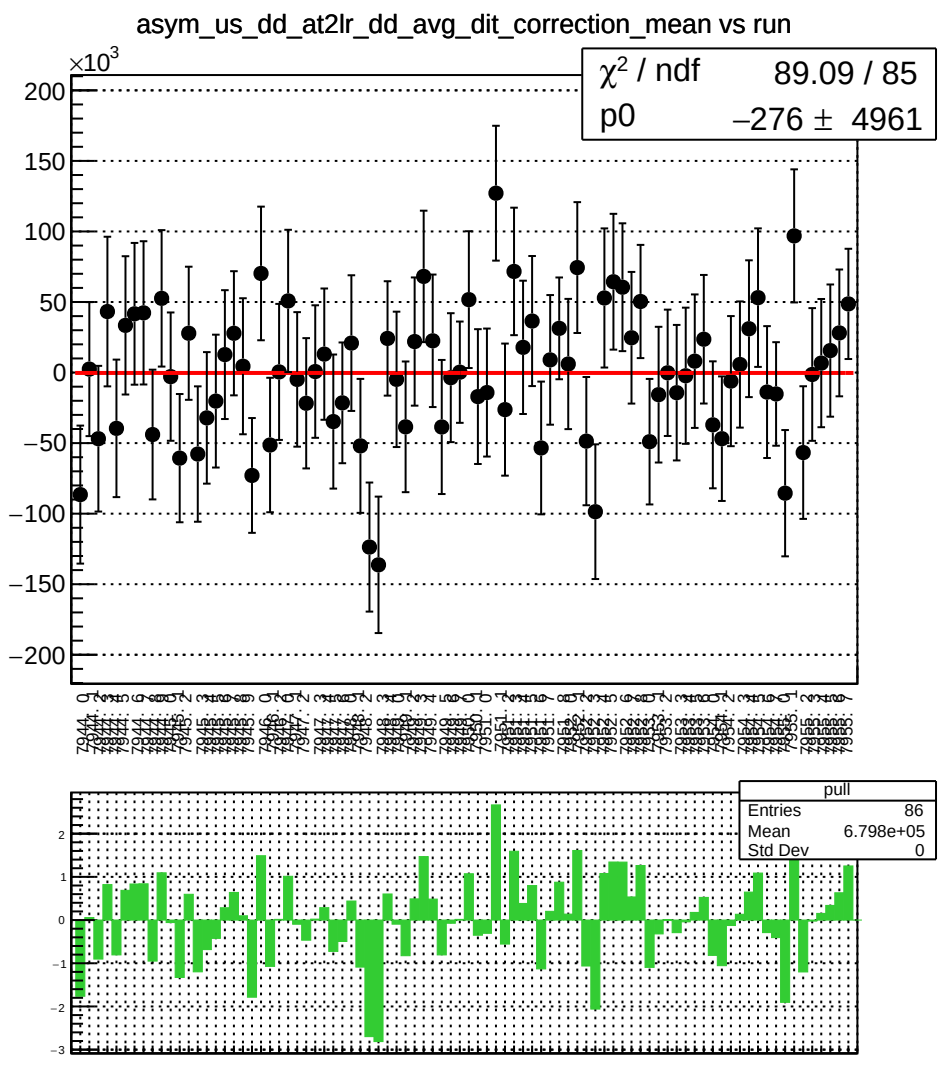

pull1D
Entries 86
Mean −0.000383
Std Dev 1.02

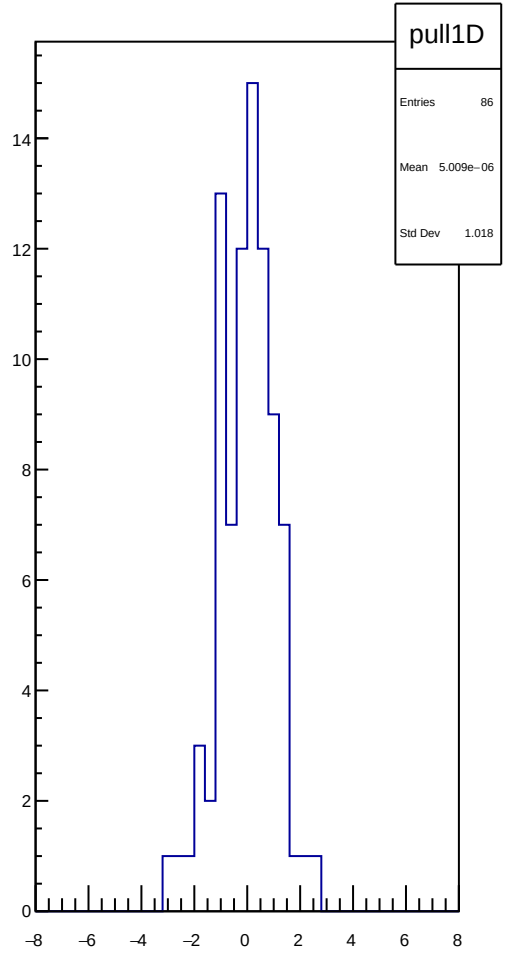

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1912 / 85
p0 4407 ± 3.466
5000
4800
4600
4400
4200
4000

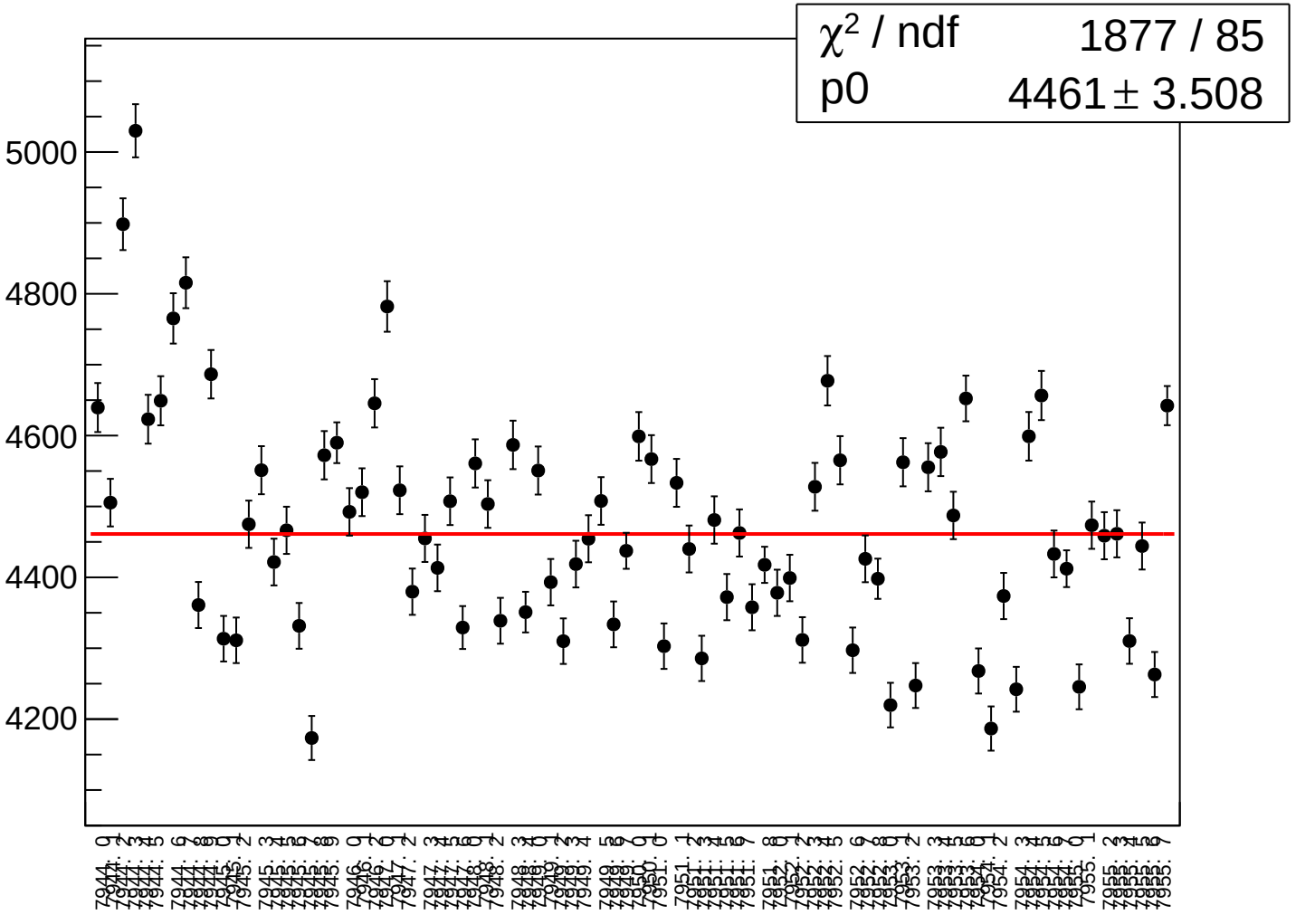

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 75.9 / 85
p0 −21.24 ± 2450
pull
Entries 86
Mean −708.6
Std Dev 0

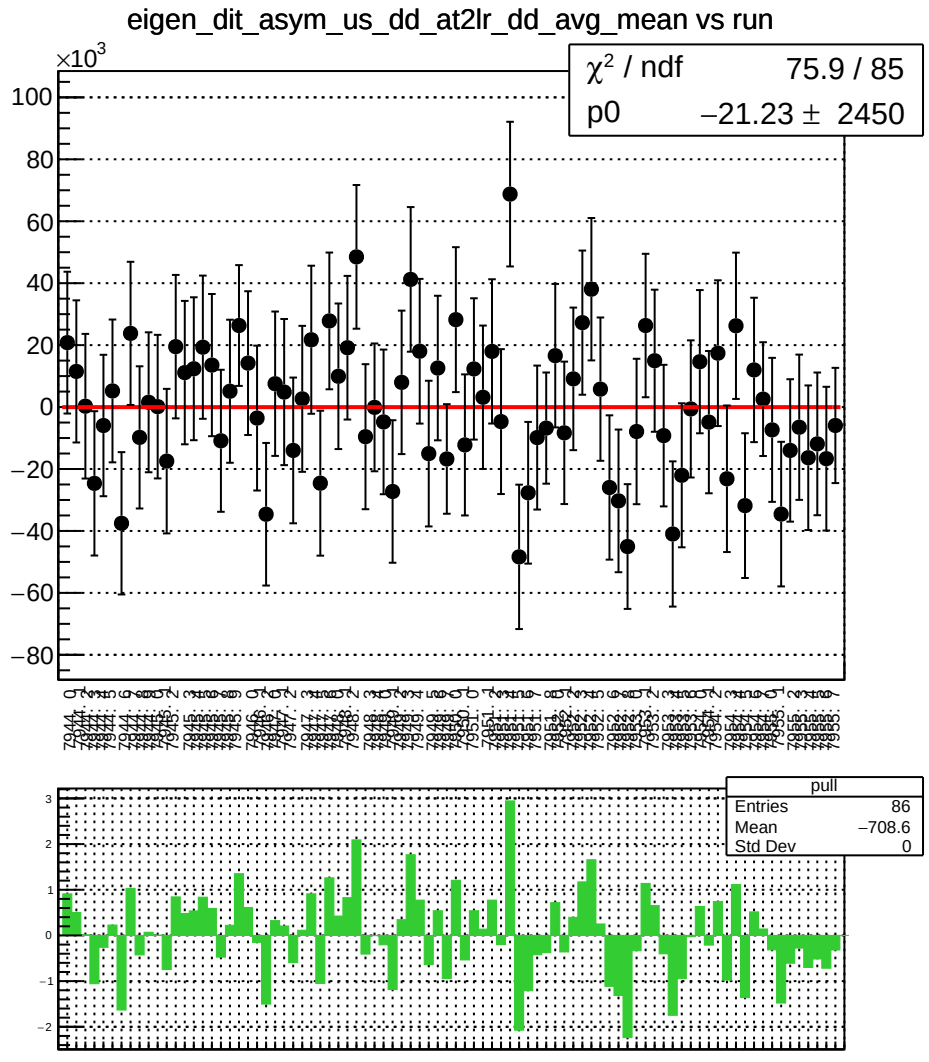

pull1D
Entries 86
Mean 0.00573
Std Dev 0.9394

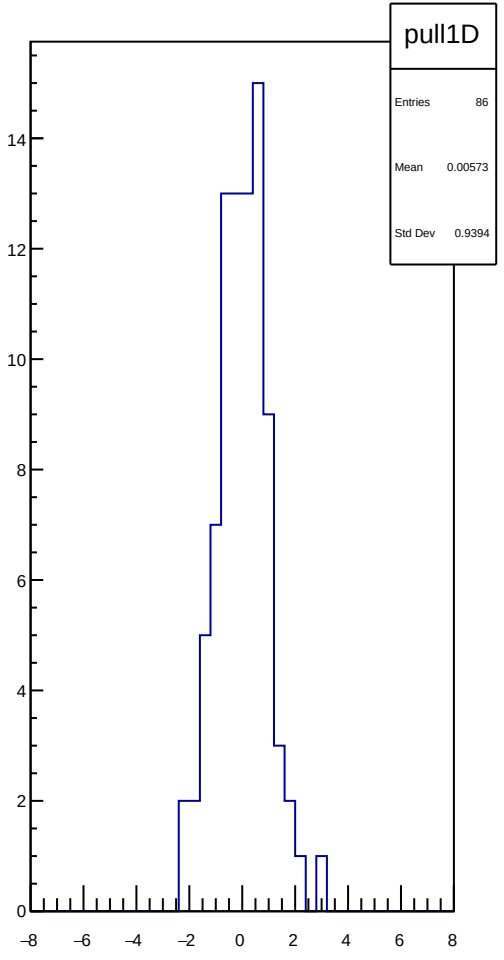

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 143.3 / 85
p0 2204 ± 1.732
2280
2260
2240
2220
2200
2180
2160
2140

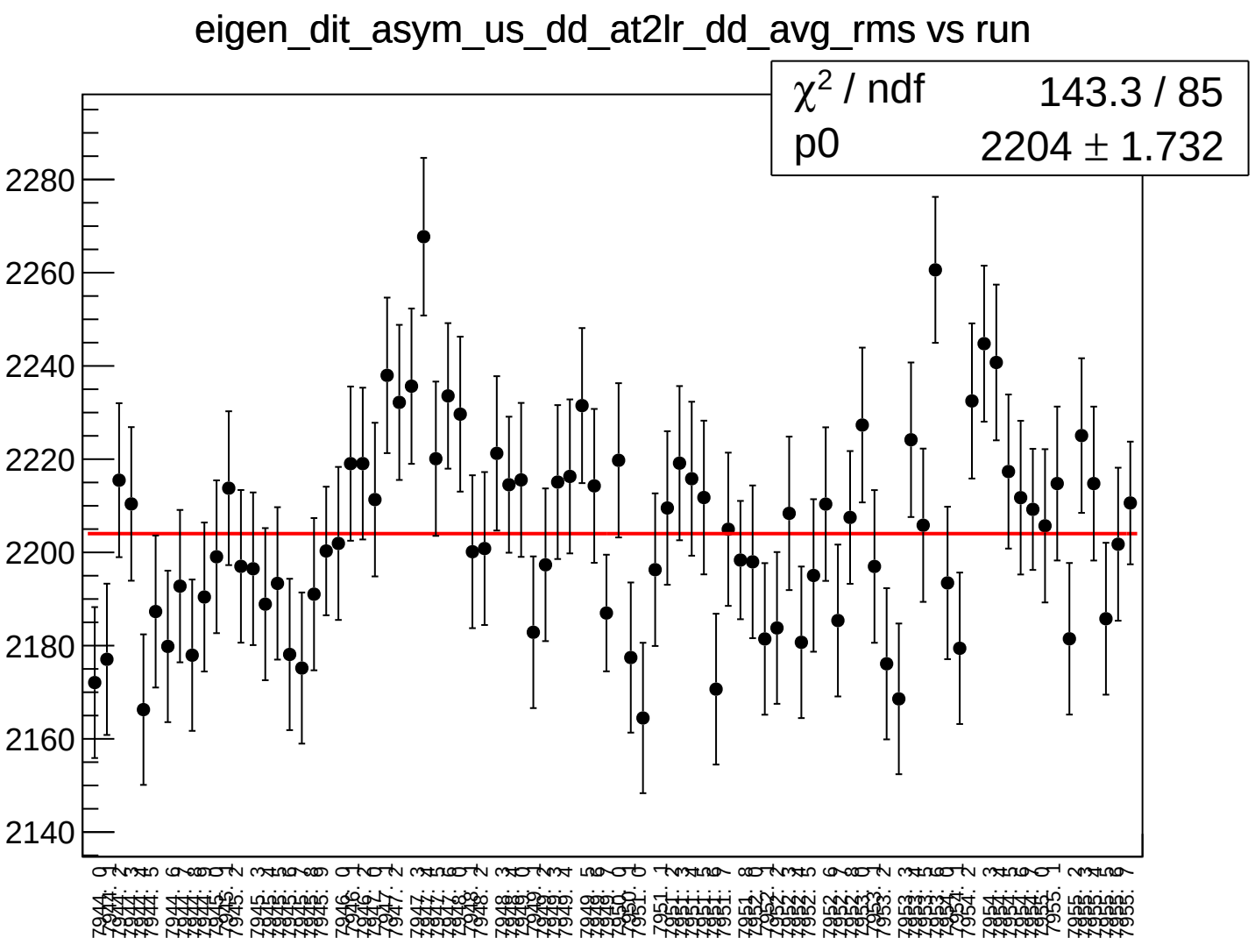

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.09 / 85
p0 −276 ± 4961
pull
Entries 86
Mean 6.798e+05
Std Dev 0

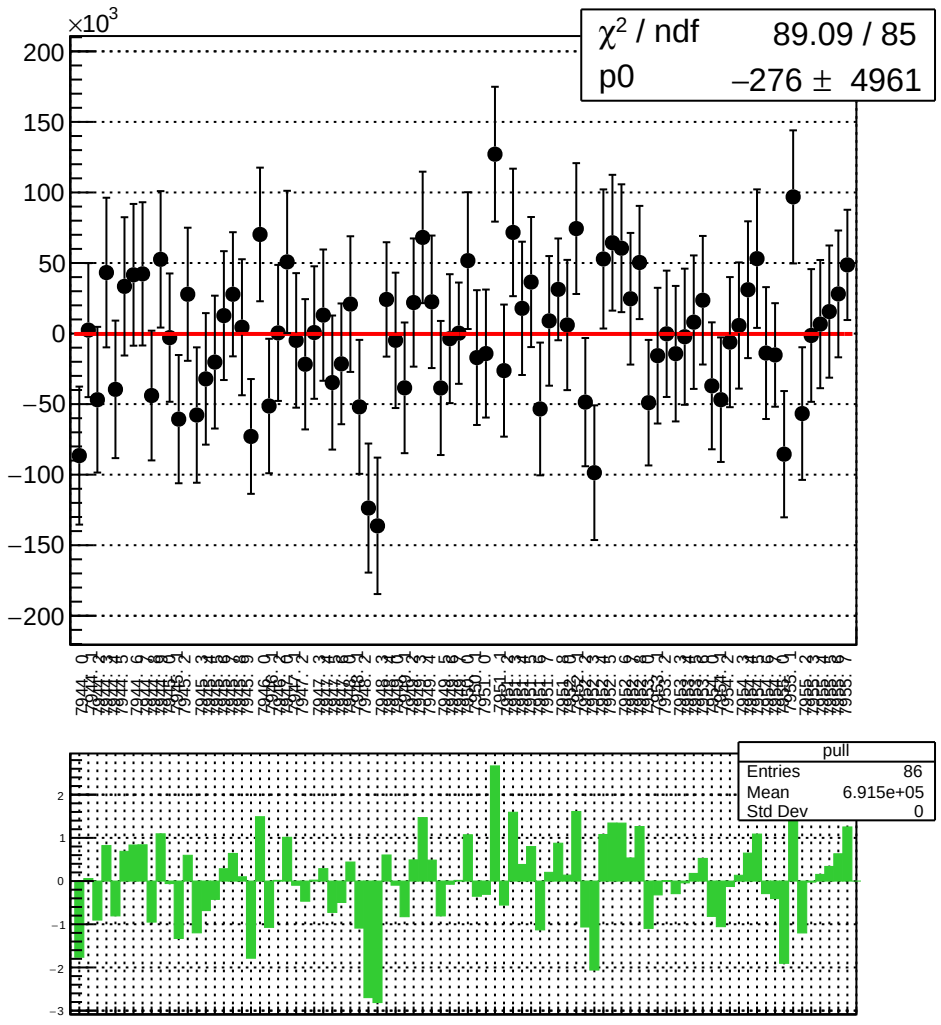

pull1D
Entries 86
Mean 5.009e−06
Std Dev 1.018

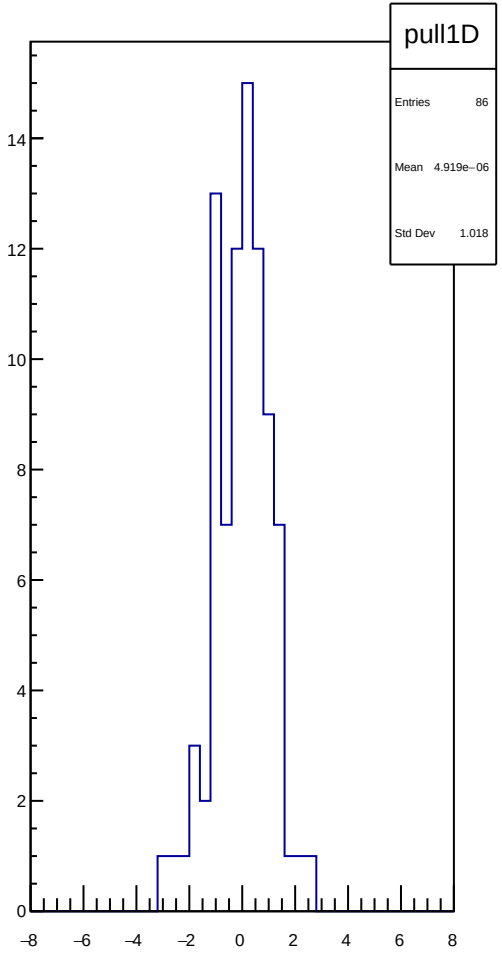

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1877 / 85
p0 4461 ± 3.508
5000
4800
4600
4400
4200

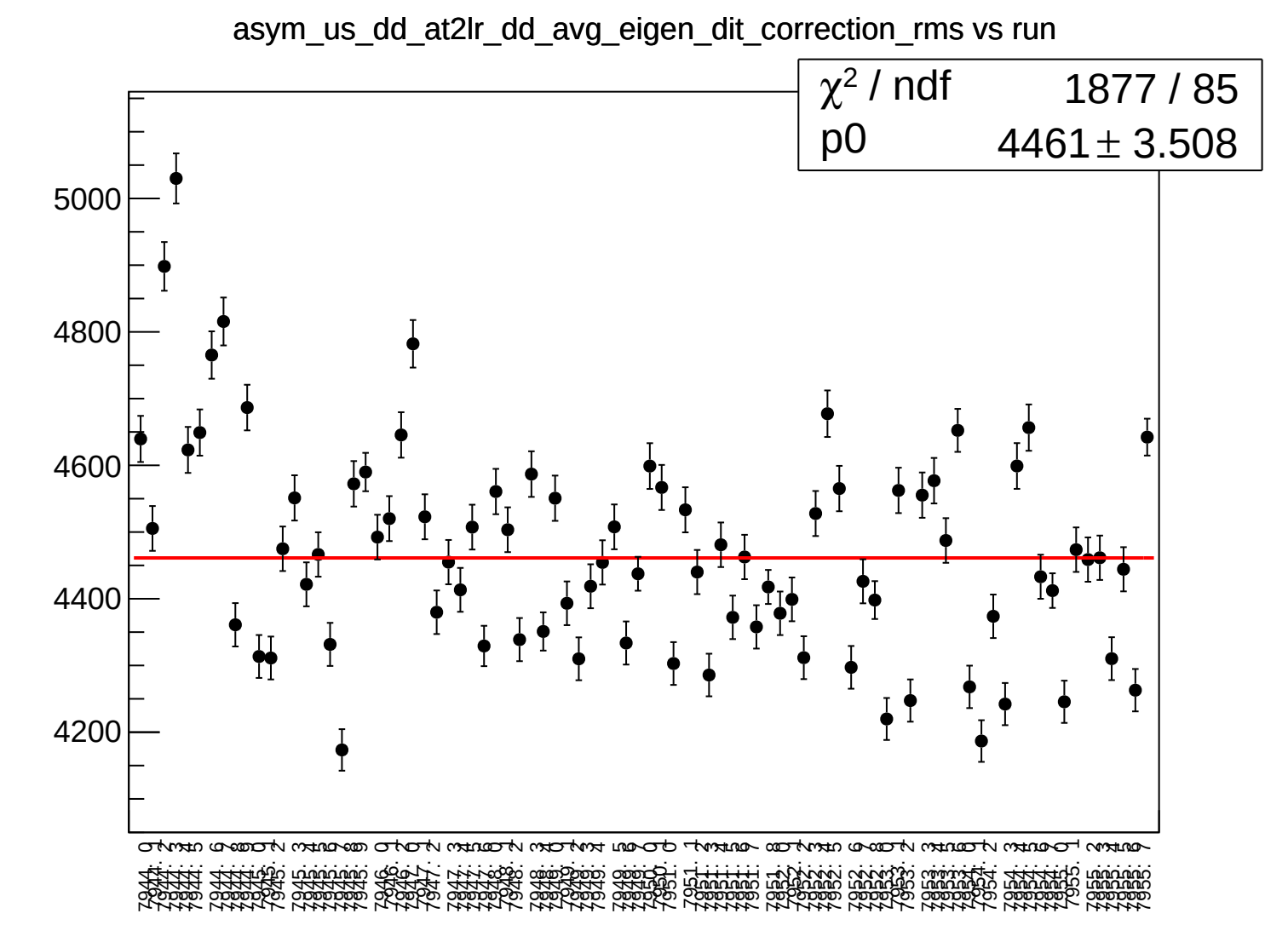

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 75.9 / 85
p0 −21.23 ± 2450
pull
Entries 86
Mean −708.6
Std Dev 0

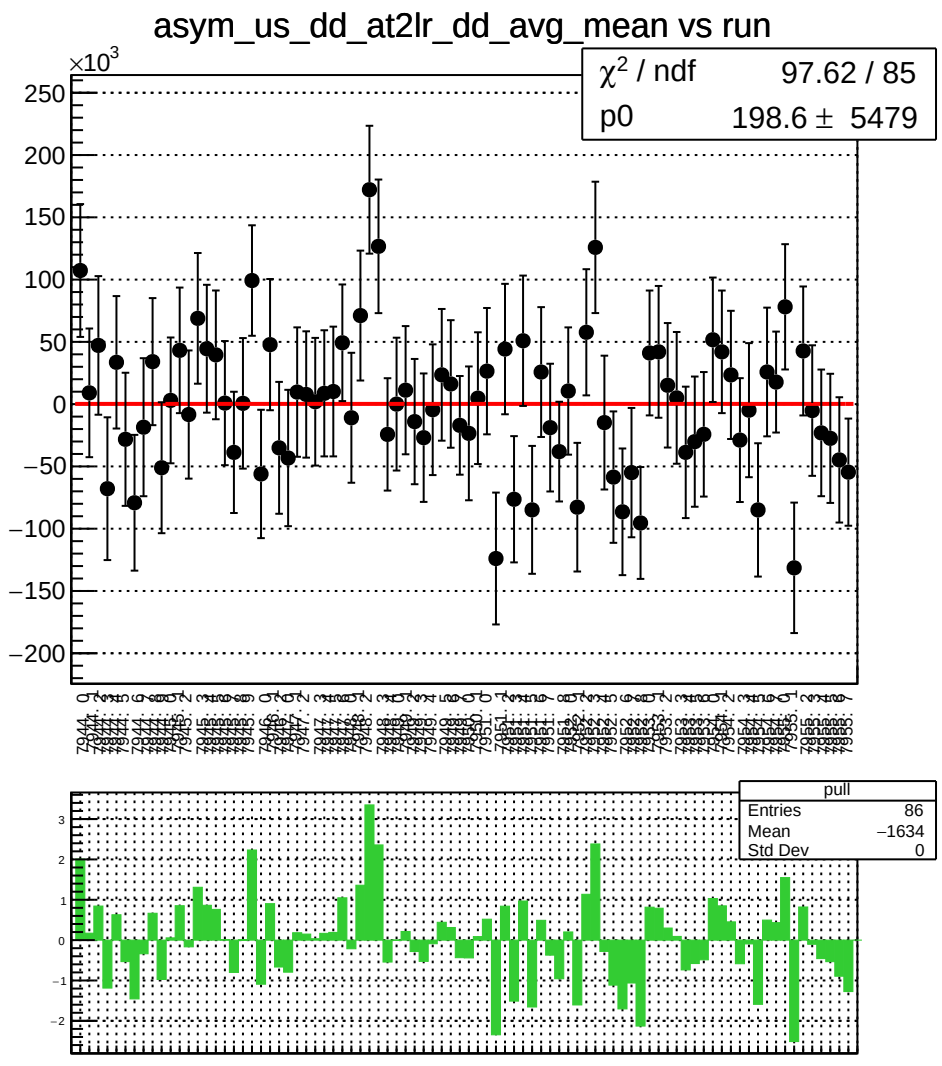

pull1D
Entries 86
Mean 0.00573
Std Dev 0.9394

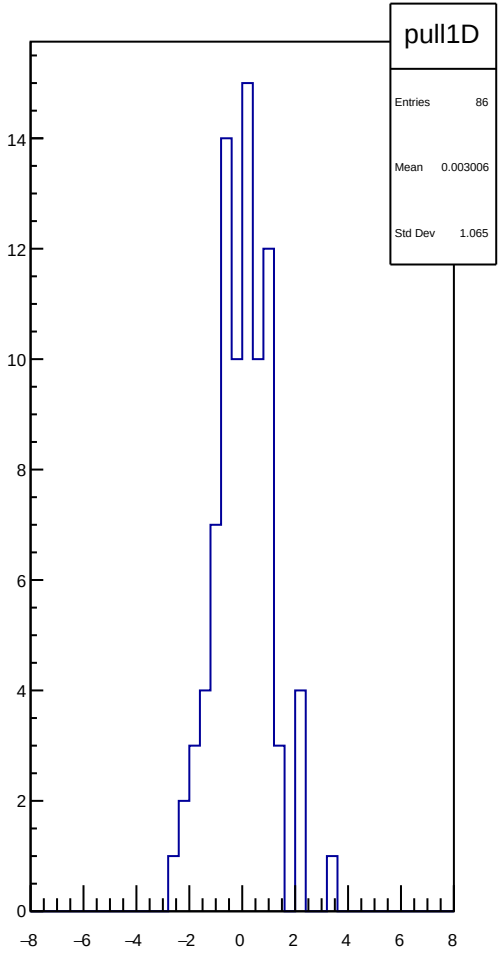

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 143.3 / 85
p0 2204 ± 1.732
2280
2260
2240
2220
2200
2180
2160
2140

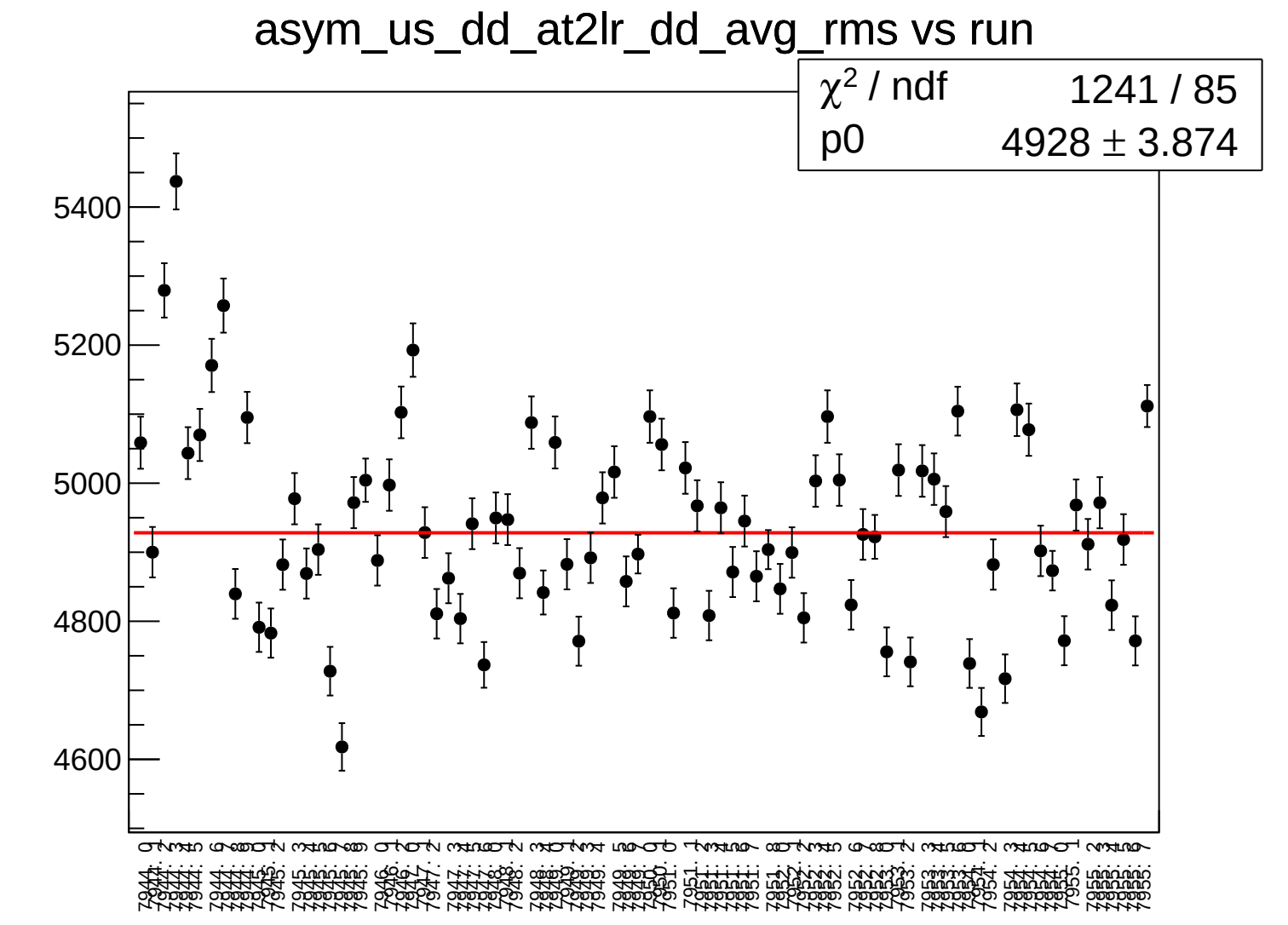

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.09 / 85
p0 −276 ± 4961
pull
Entries 86
Mean 6.915e+05
Std Dev 0

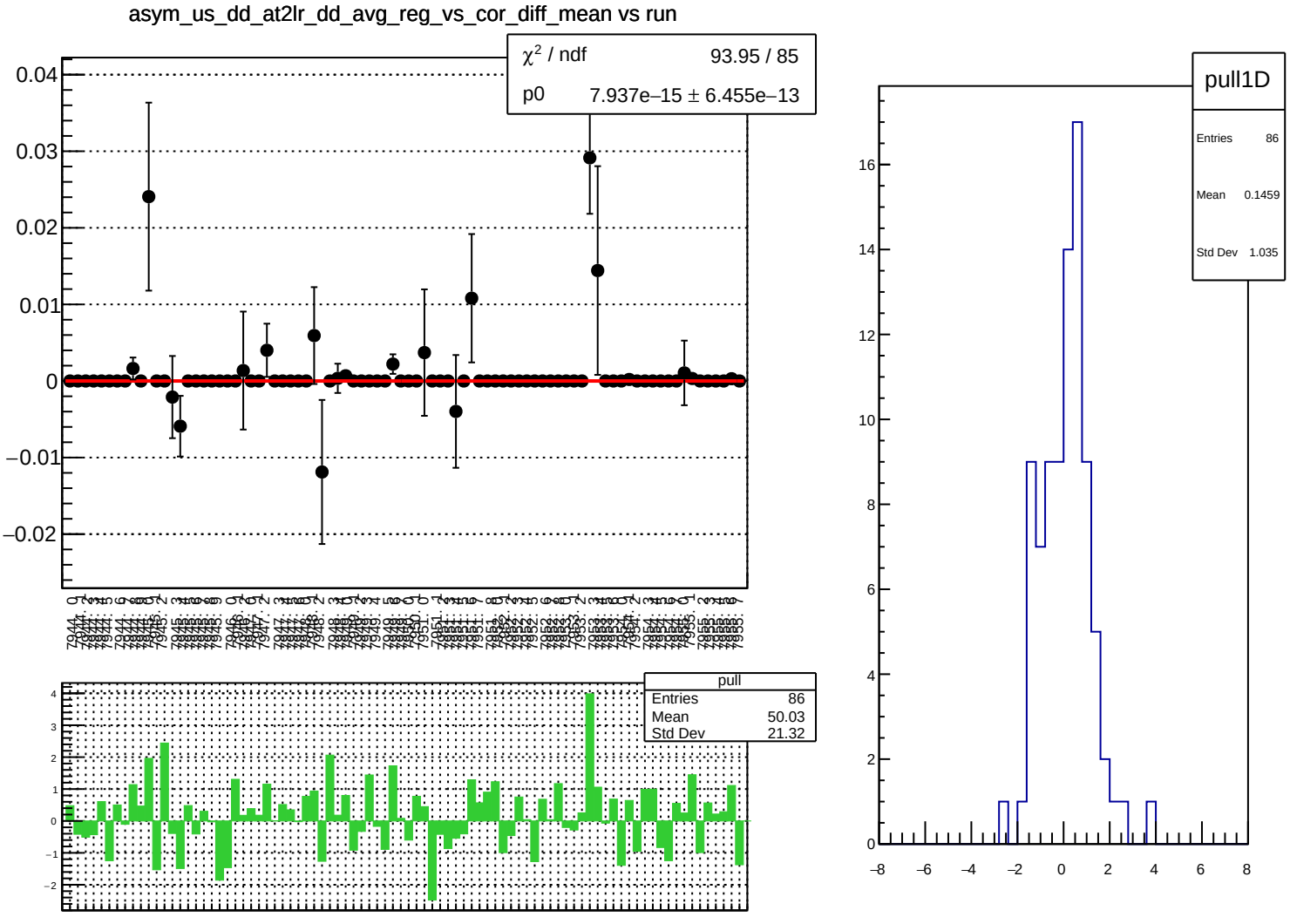

pull1D
Entries 86
Mean 4.919e−06
Std Dev 1.018

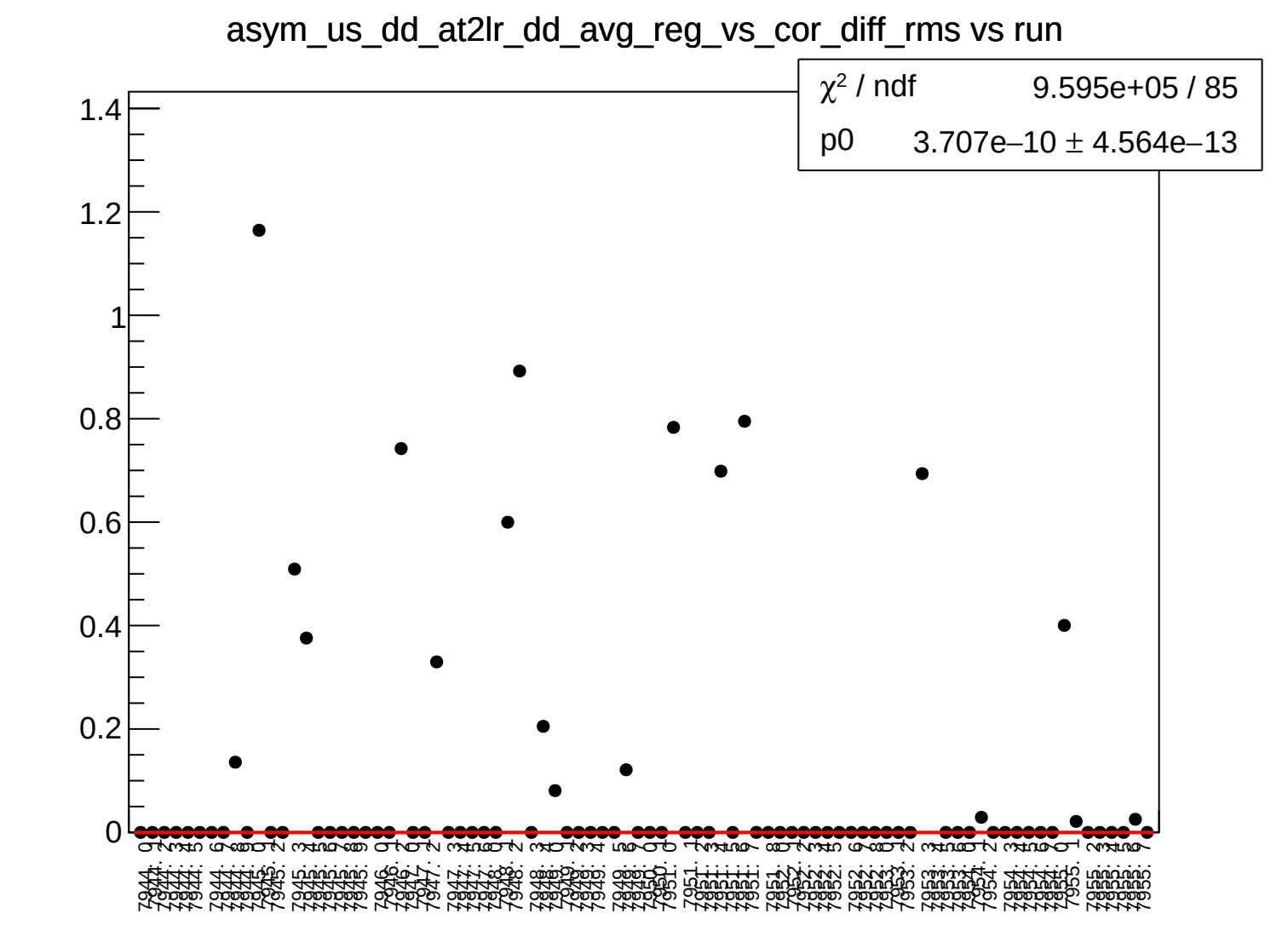

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1877 / 85
p0 4461 ± 3.508
5000
4800
4600
4400
4200

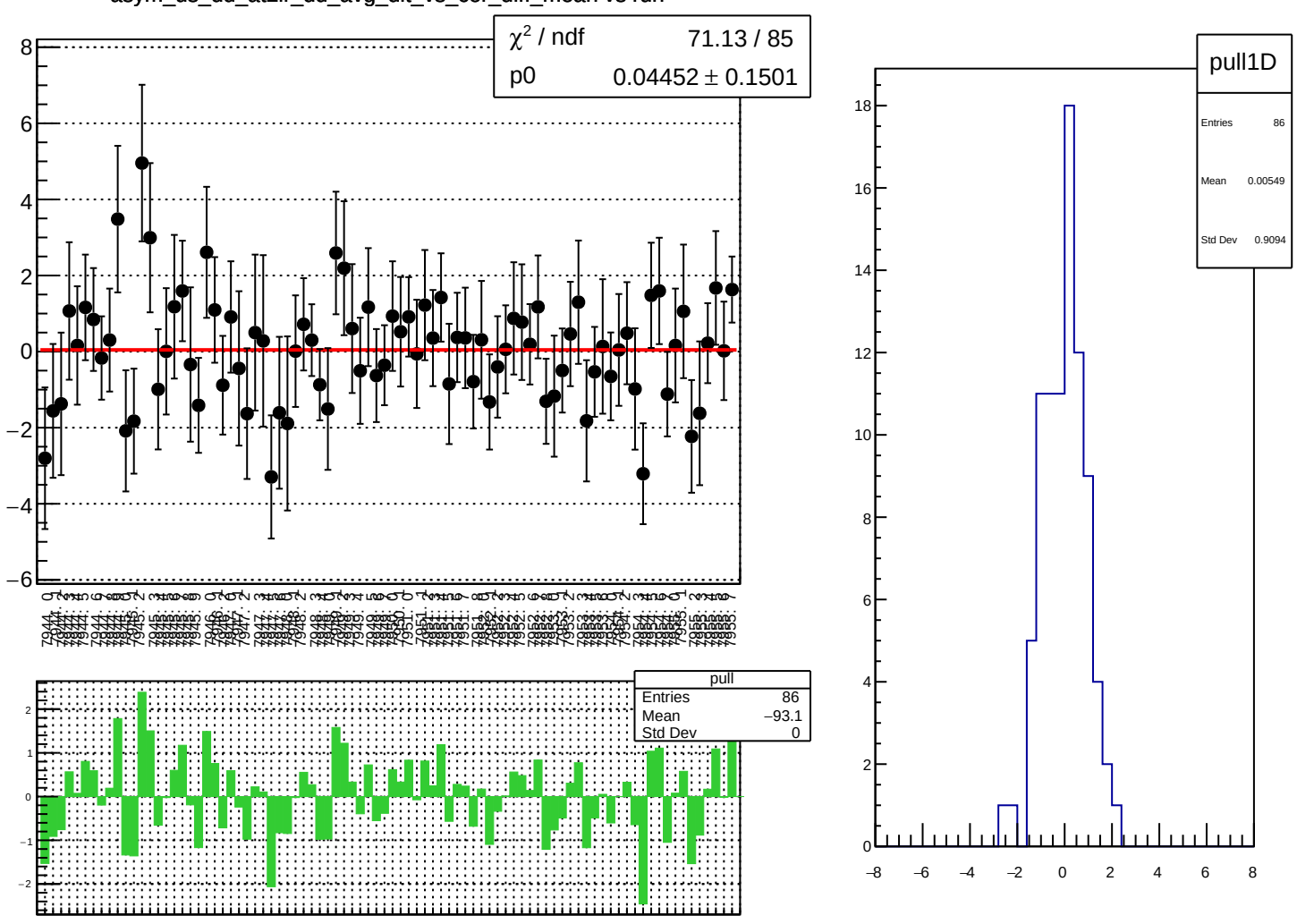

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 97.62 / 85
p0 198.6 ± 5479
pull
Entries 86
Mean −1634
Std Dev 0

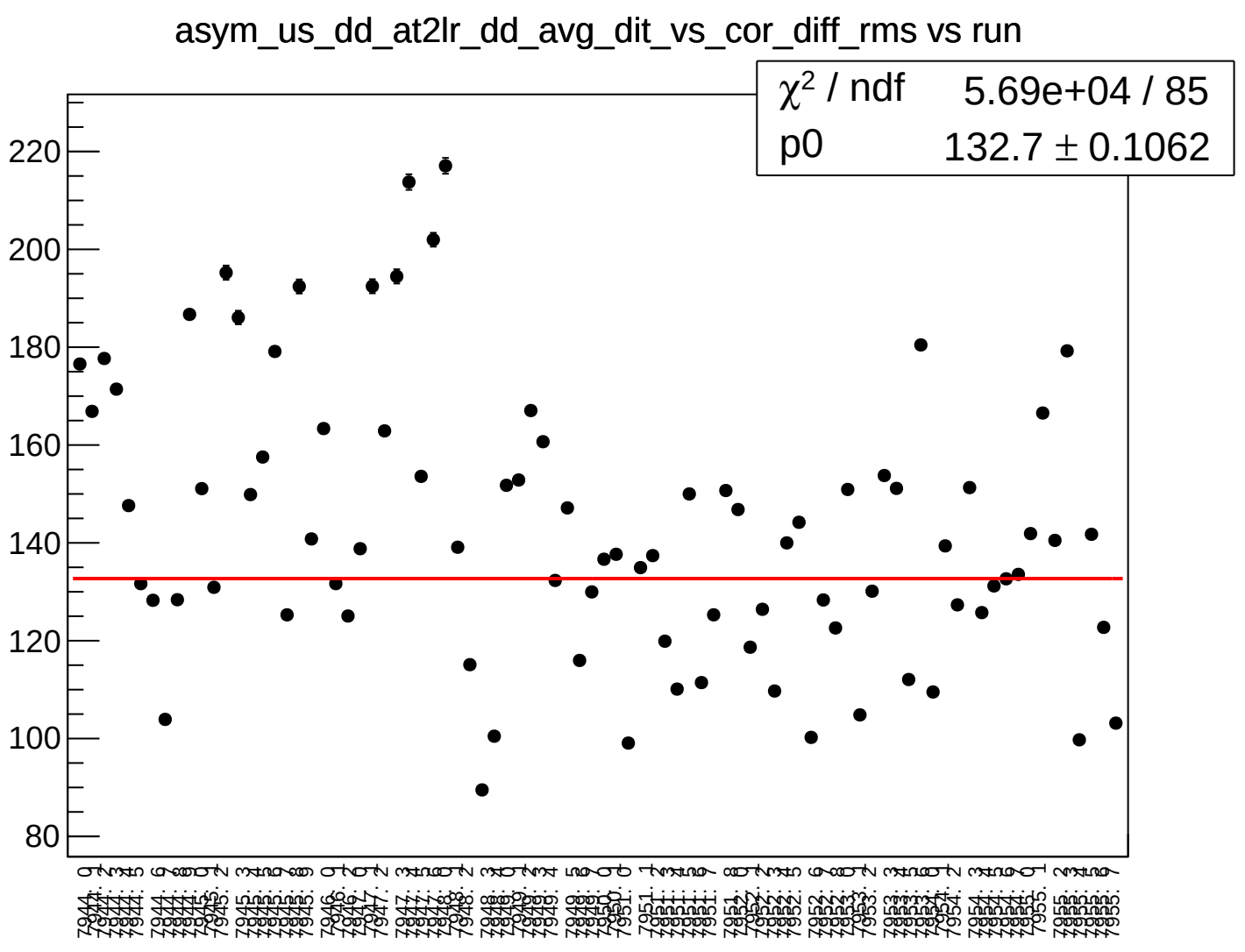

pull1D
Entries 86
Mean 0.003006
Std Dev 1.065

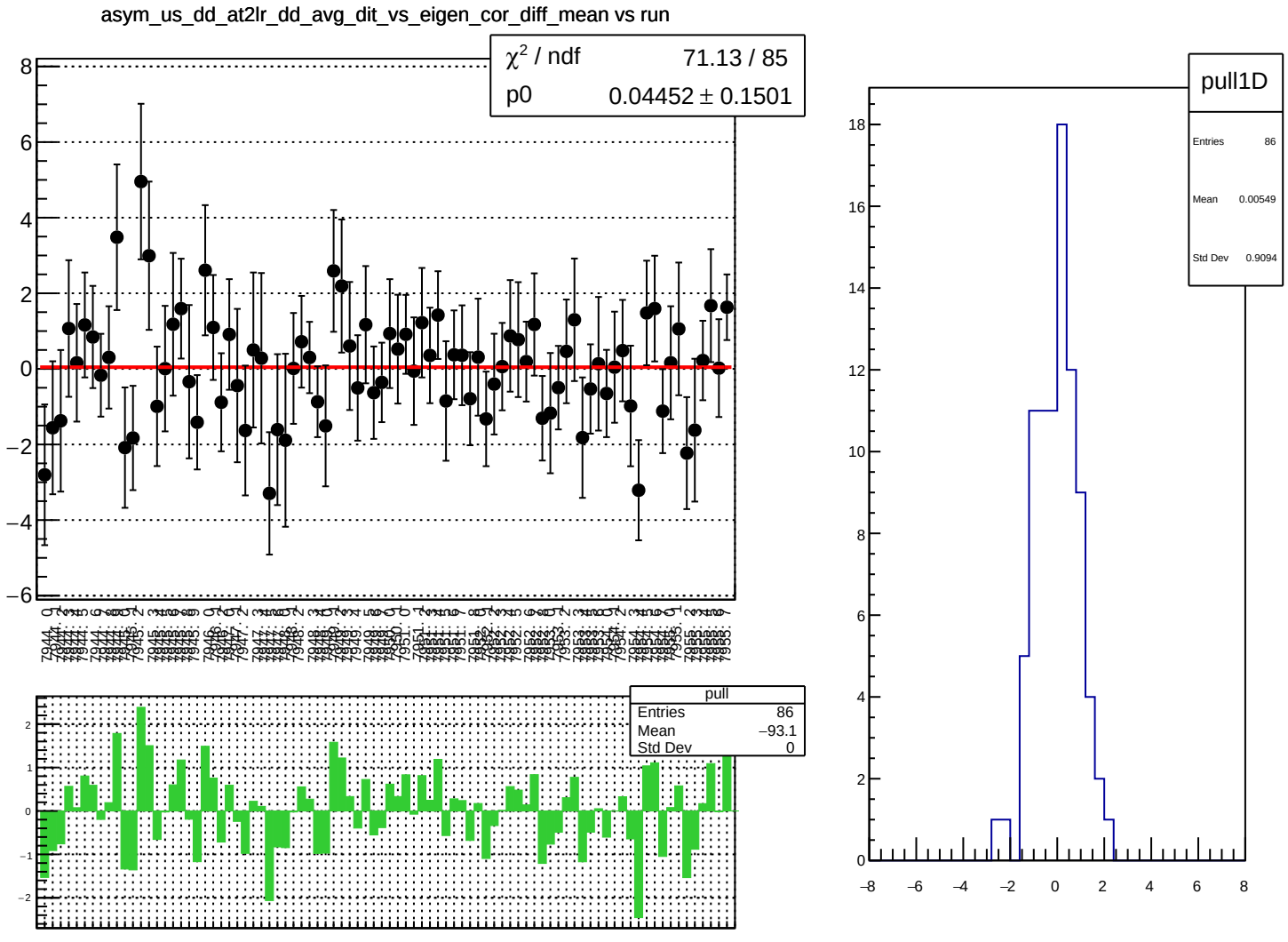

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1241 / 85
p0 4928 ± 3.874
5400
5200
5000
4800
4600

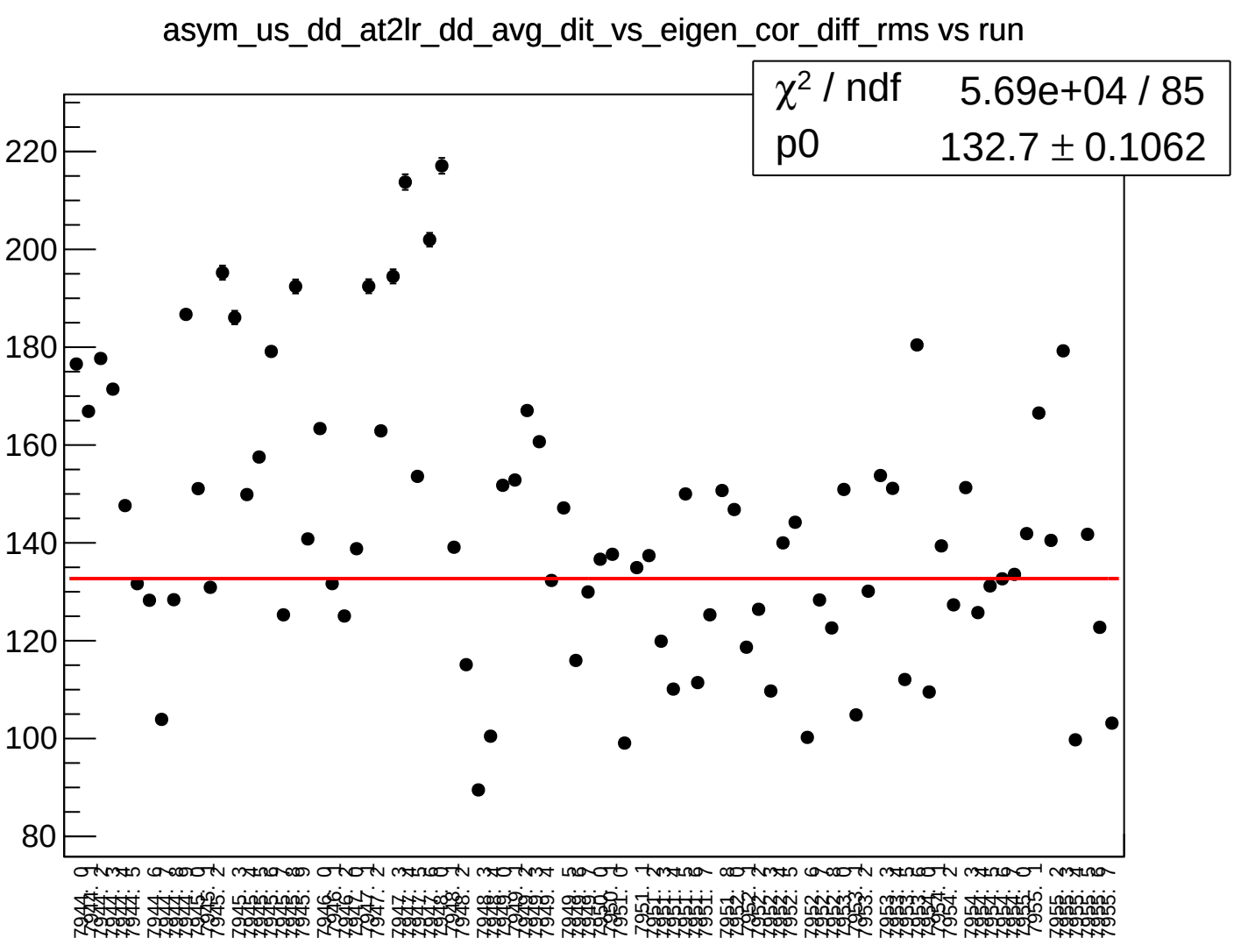

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.95 / 85
p0 7.937e−15 ± 6.455e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 50.03
Std Dev 21.32
pull1D
Entries 86
Mean 0.1459
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

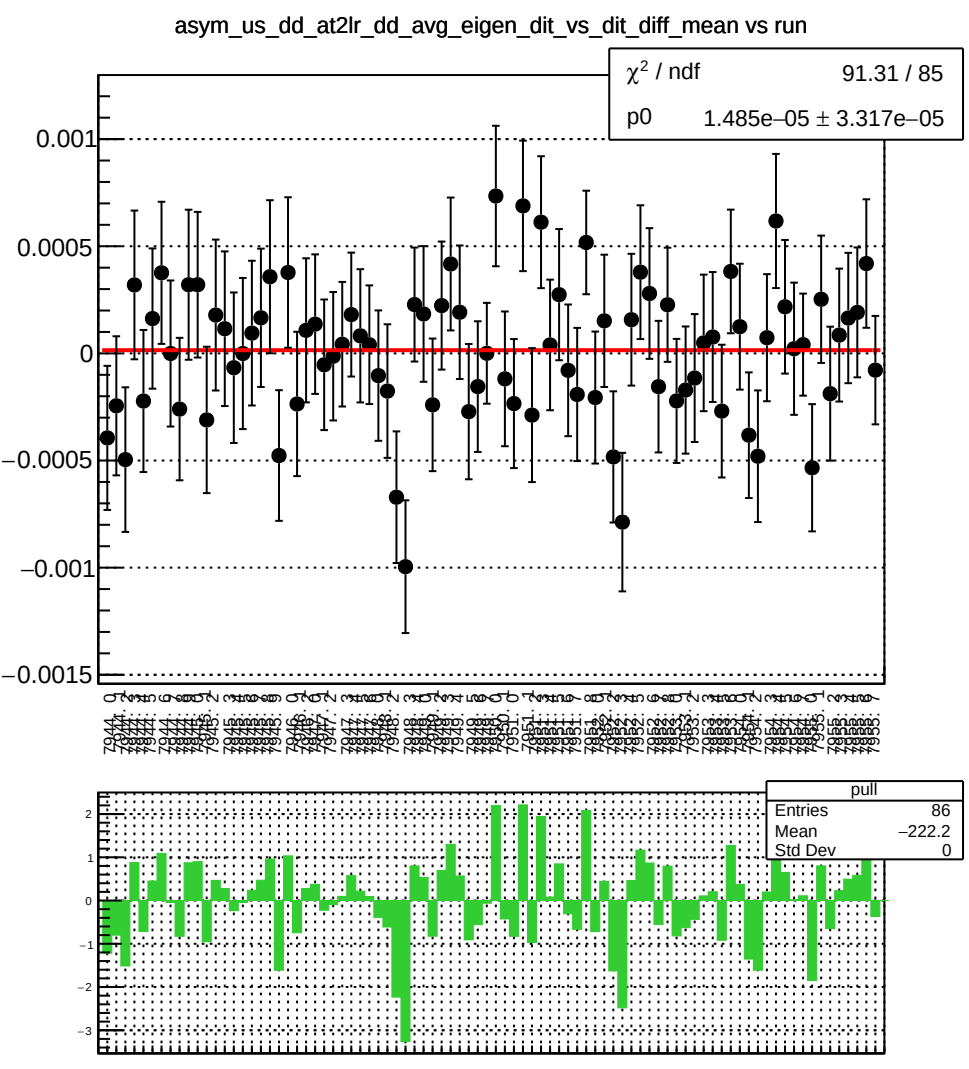

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.595e+05 / 85
p0 3.707e−10 ± 4.564e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

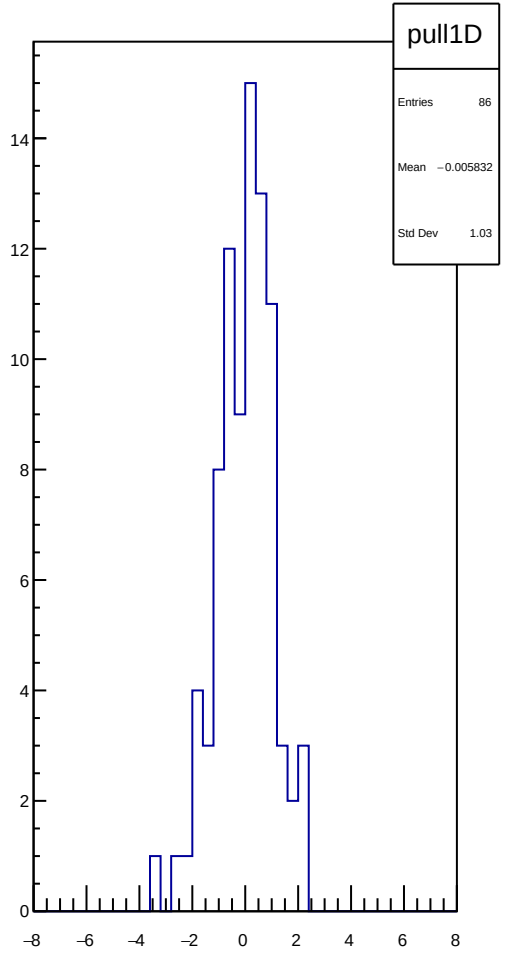

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.13 / 85
p0 0.04452 ± 0.1501
pull
Entries 86
Mean −93.1
Std Dev 0
pull1D
Entries 86
Mean 0.00549
Std Dev 0.9094

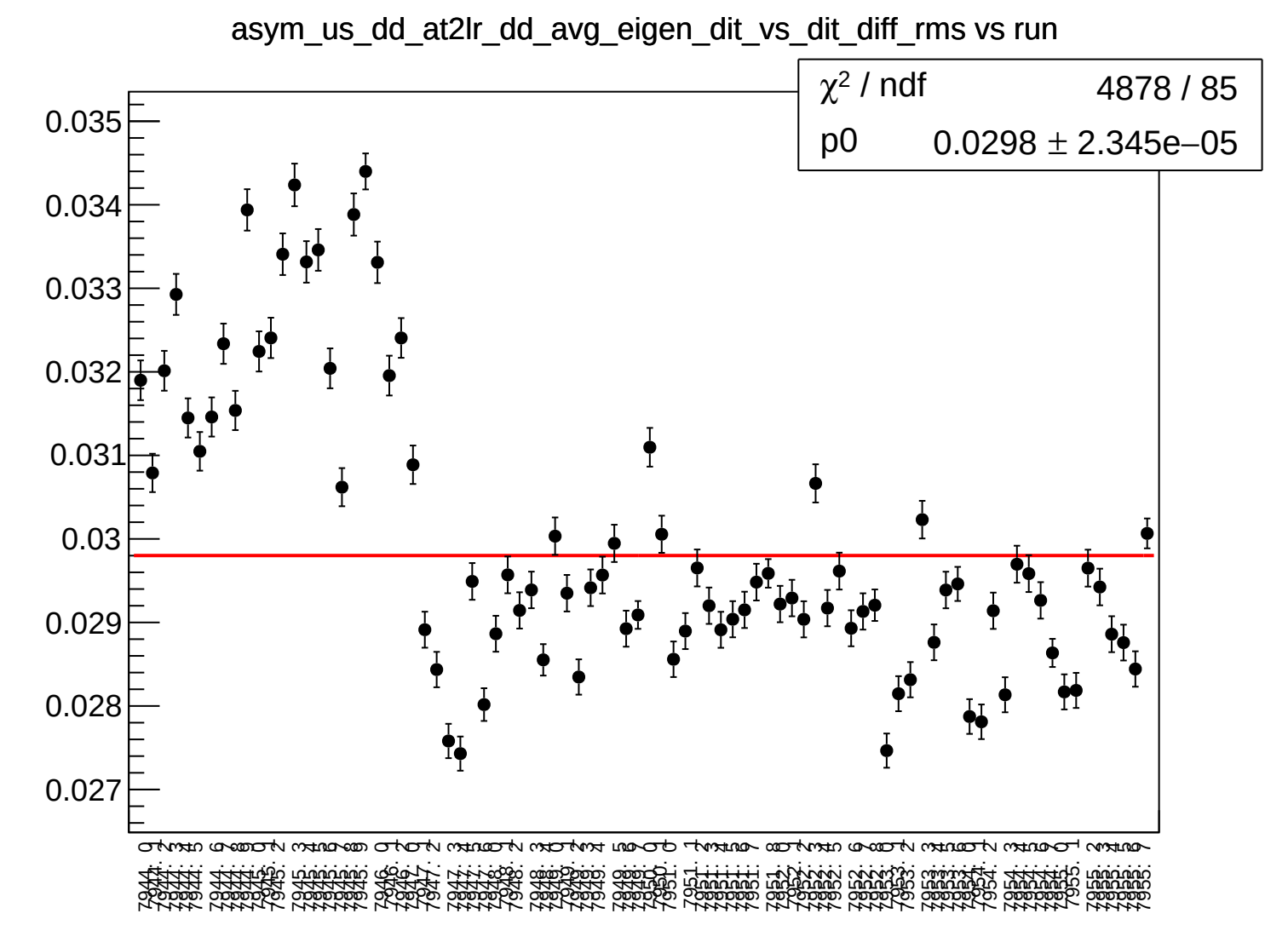

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.69e+04 / 85
p0 132.7 ± 0.1062
220
200
180
160
140
120
100
80

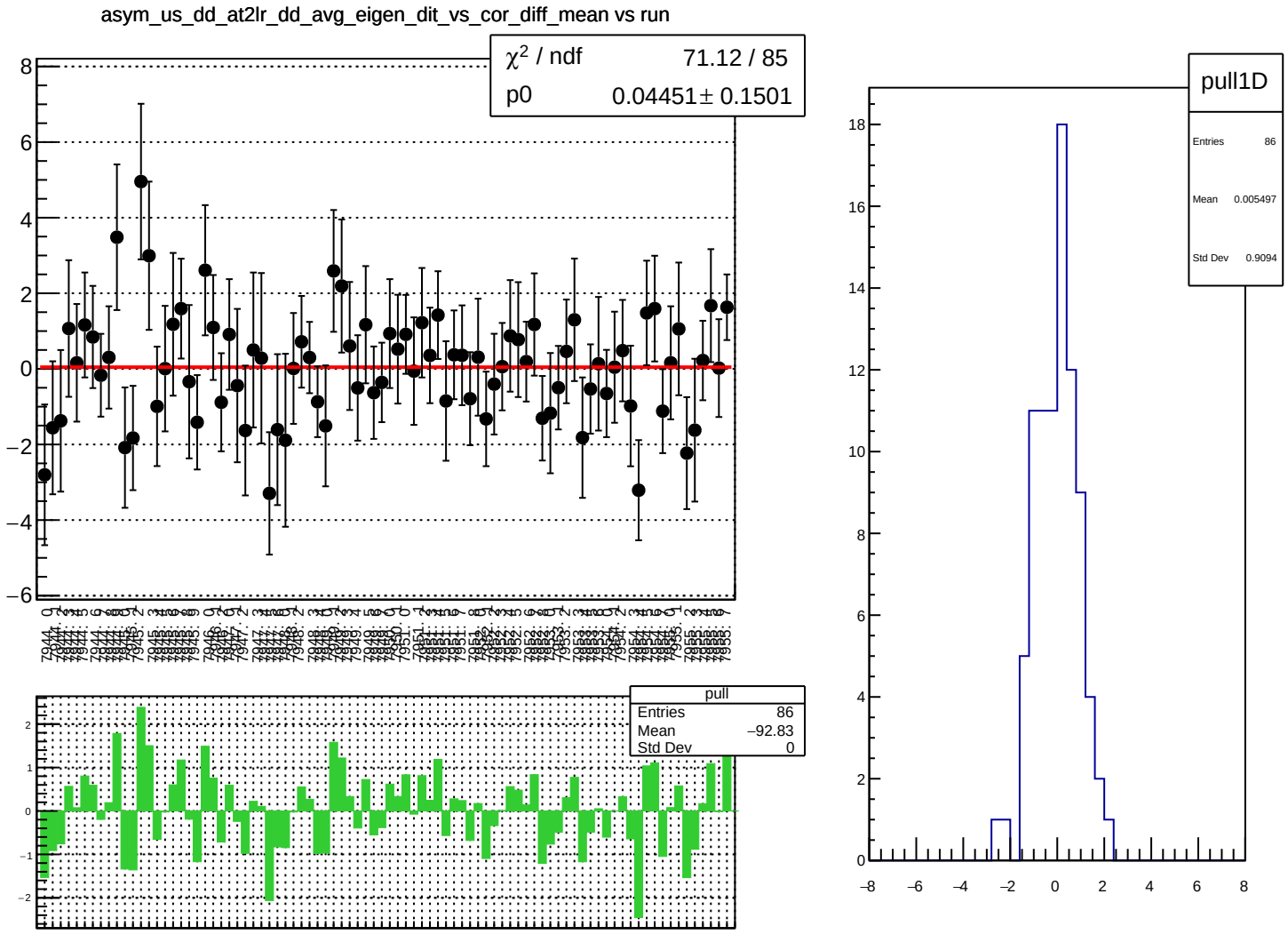

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.13 / 85
p0 0.04452 ± 0.1501
pull
Entries 86
Mean −93.1
Std Dev 0
pull1D
Entries 86
Mean 0.00549
Std Dev 0.9094

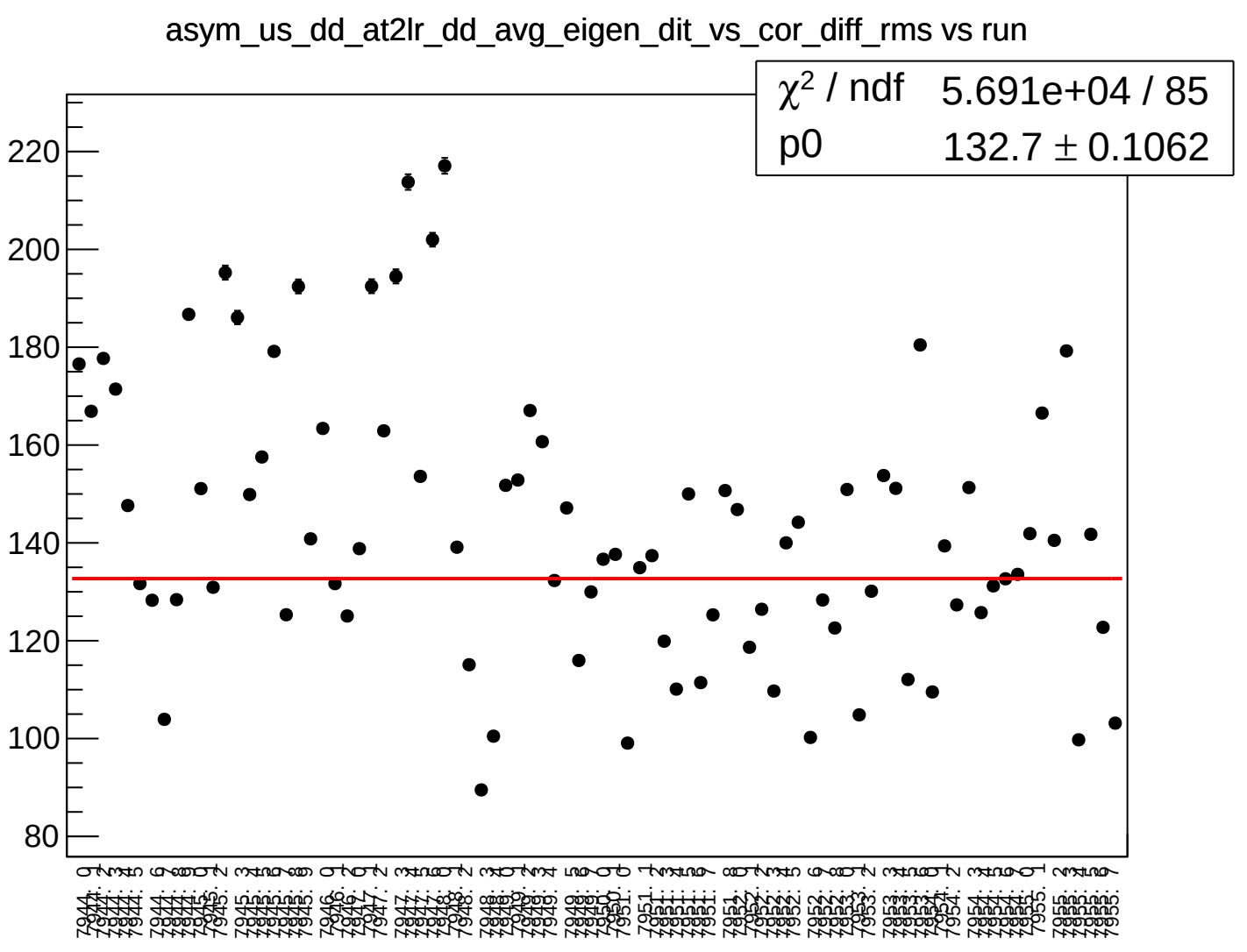

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.69e+04 / 85
p0 132.7 ± 0.1062
220
200
180
160
140
120
100
80

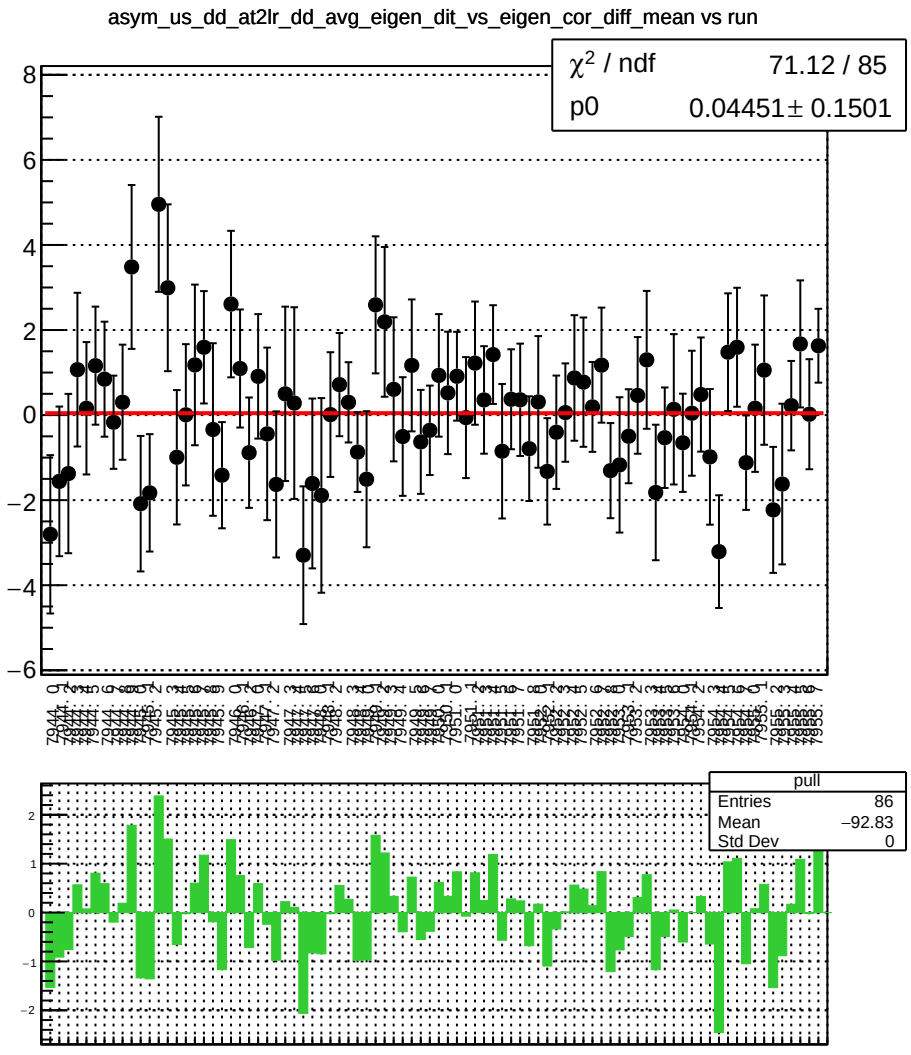

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 91.31 / 85
p0 1.485e−05 ± 3.317e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean −222.2
Std Dev 0
2
1
0
−1
−2
−3

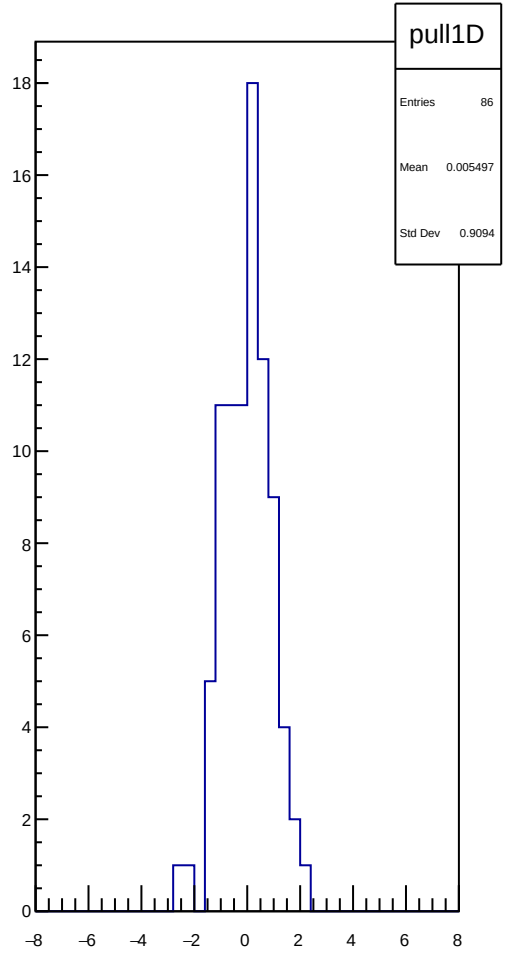

pull1D
Entries 86
Mean −0.005832
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

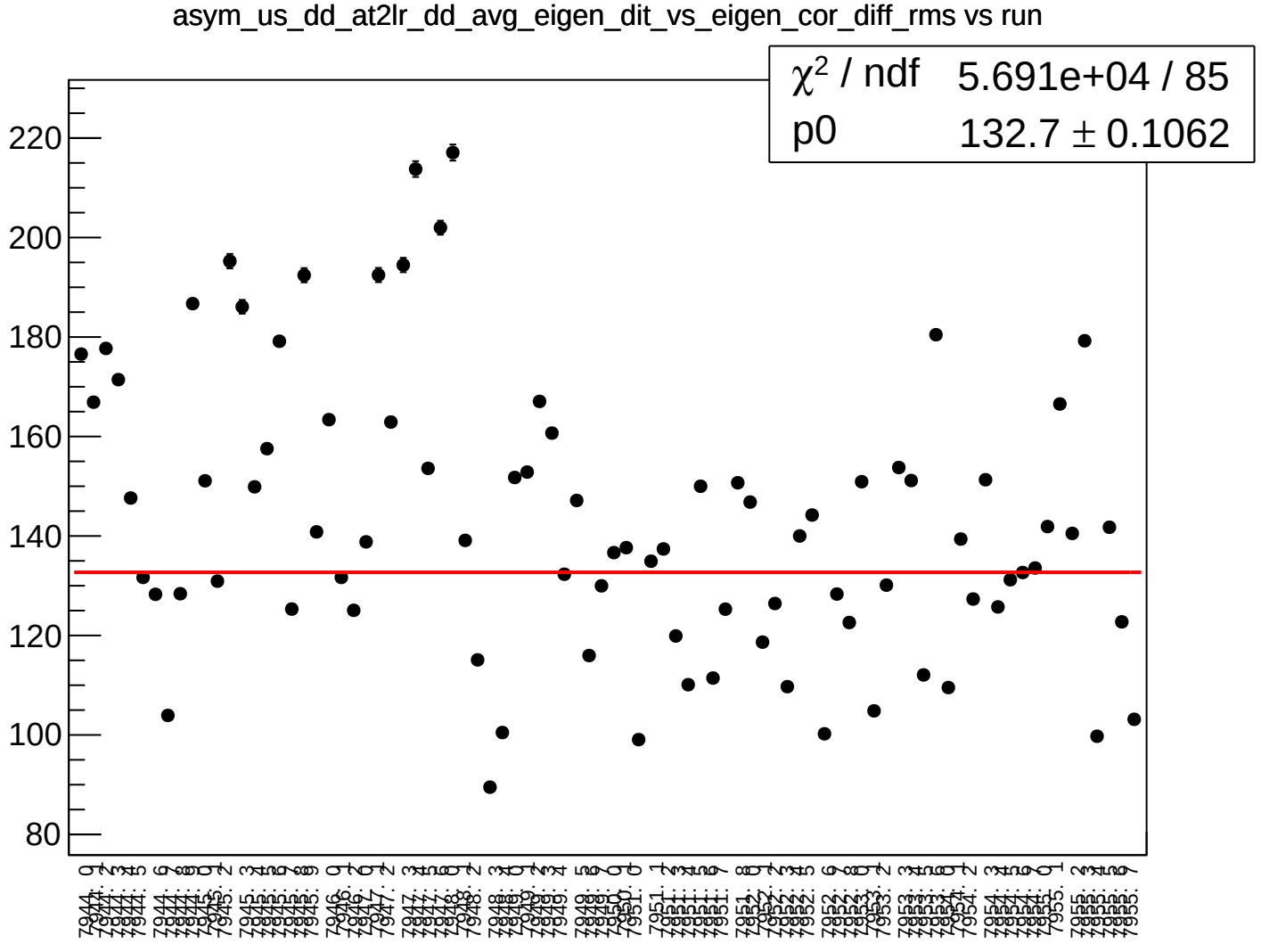

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4878 / 85
p0 0.0298 ± 2.345e−05
0.035
0.034
0.033
0.032
0.031
0.03
0.029
0.028
0.027

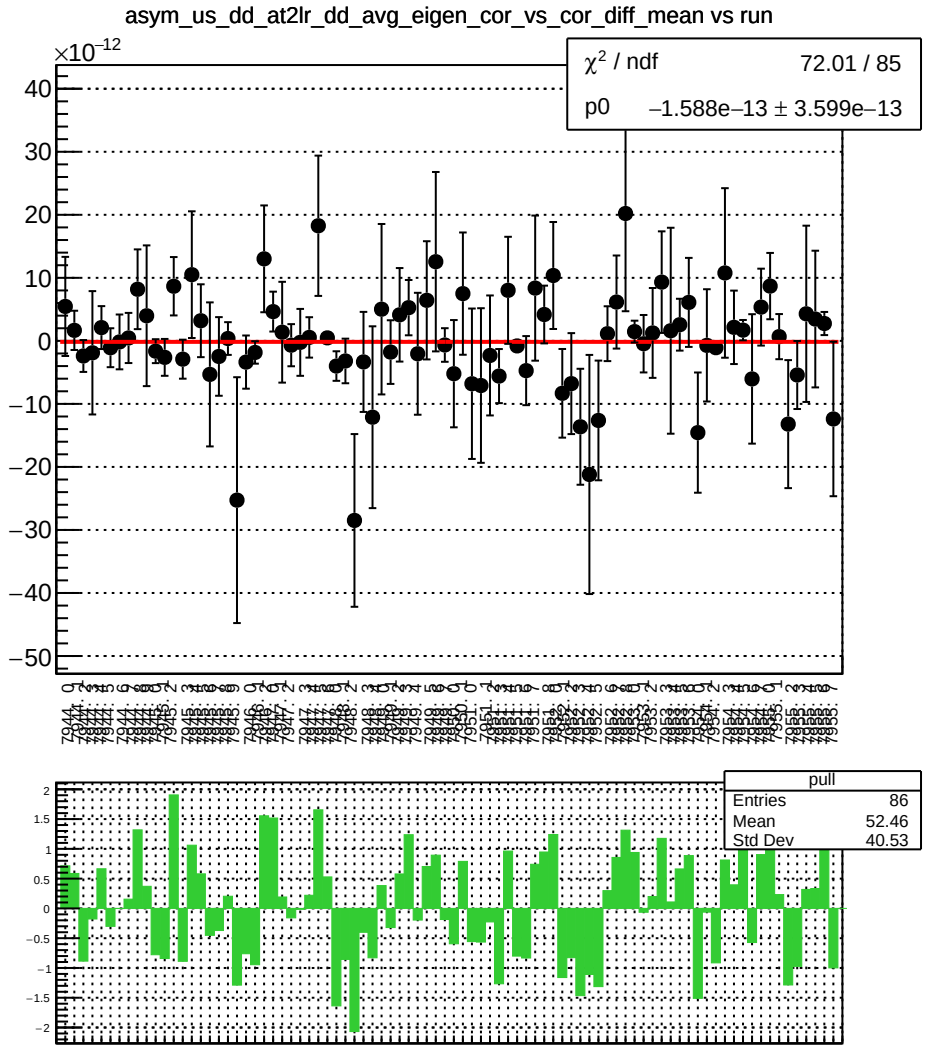

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.12 / 85
p0 0.04451± 0.1501
pull
Entries 86
Mean −92.83
Std Dev 0
pull1D
Entries 86
Mean 0.005497
Std Dev 0.9094

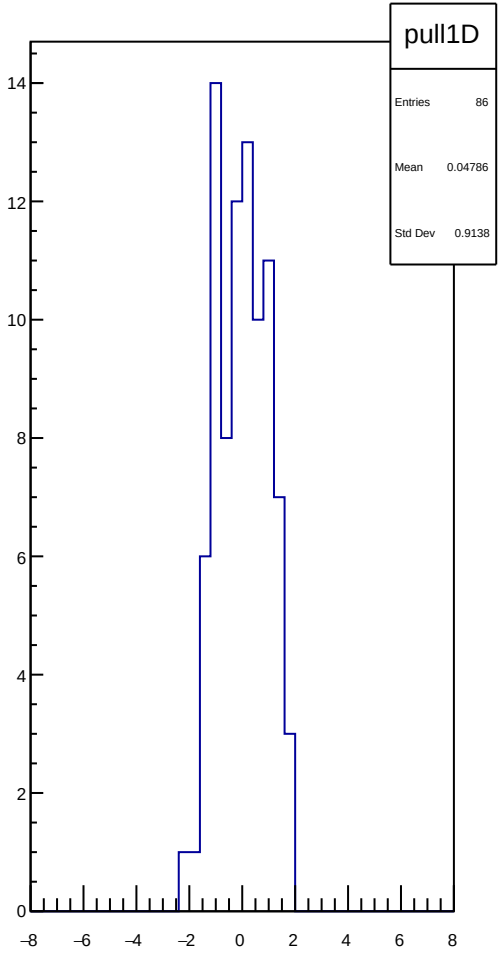

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.691e+04 / 85
p0 132.7 ± 0.1062
220
200
180
160
140
120
100
80

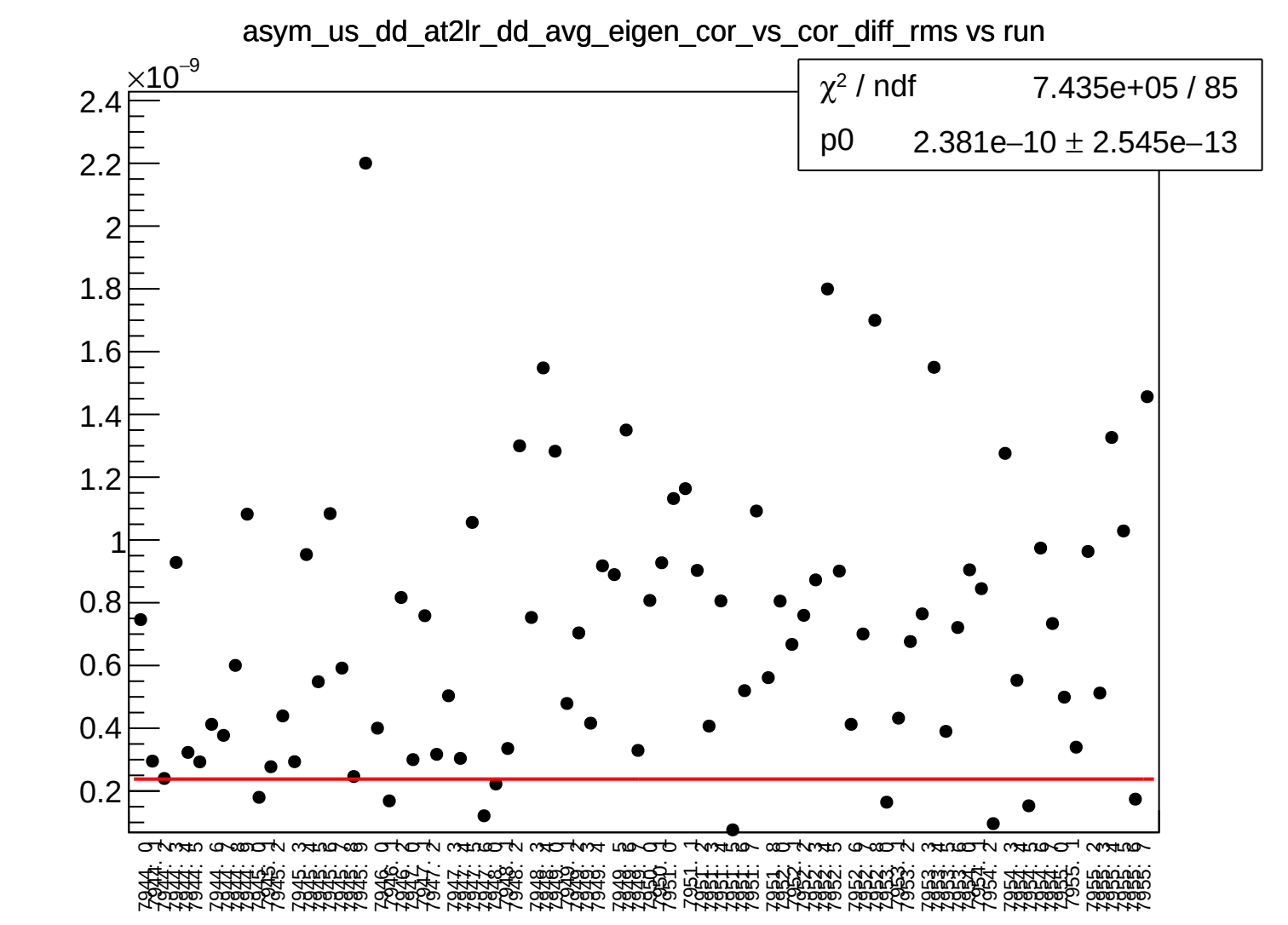

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.12 / 85
p0 0.04451± 0.1501
pull
Entries 86
Mean −92.83
Std Dev 0

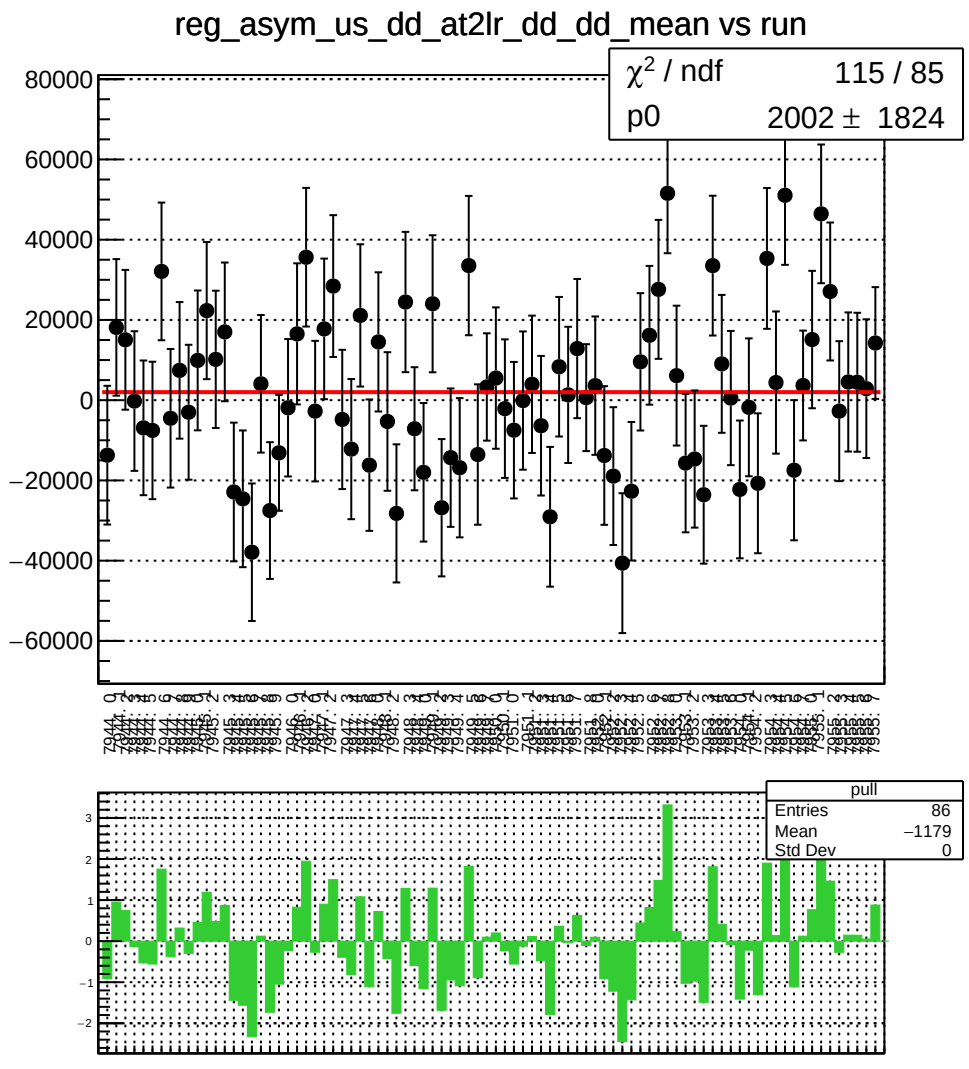

pull1D
Entries 86
Mean 0.005497
Std Dev 0.9094

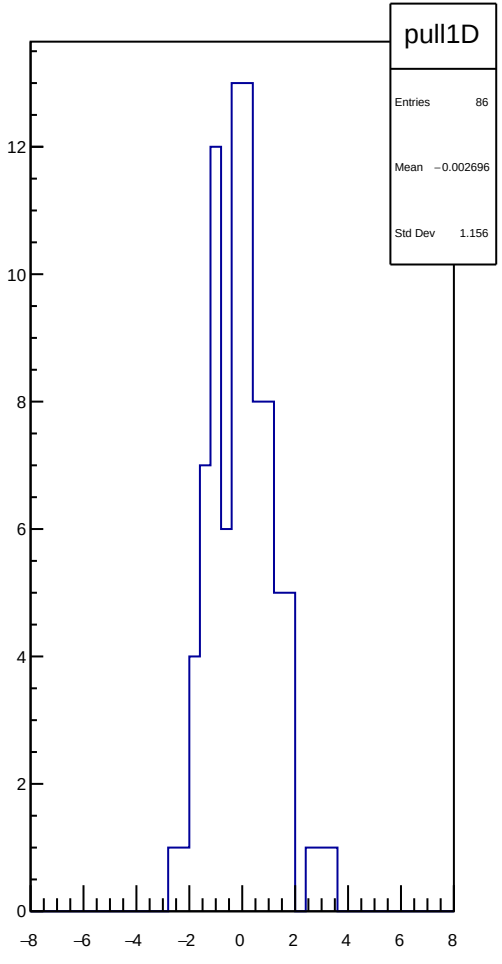

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.691e+04 / 85
p0 132.7 ± 0.1062
220
200
180
160
140
120
100
80

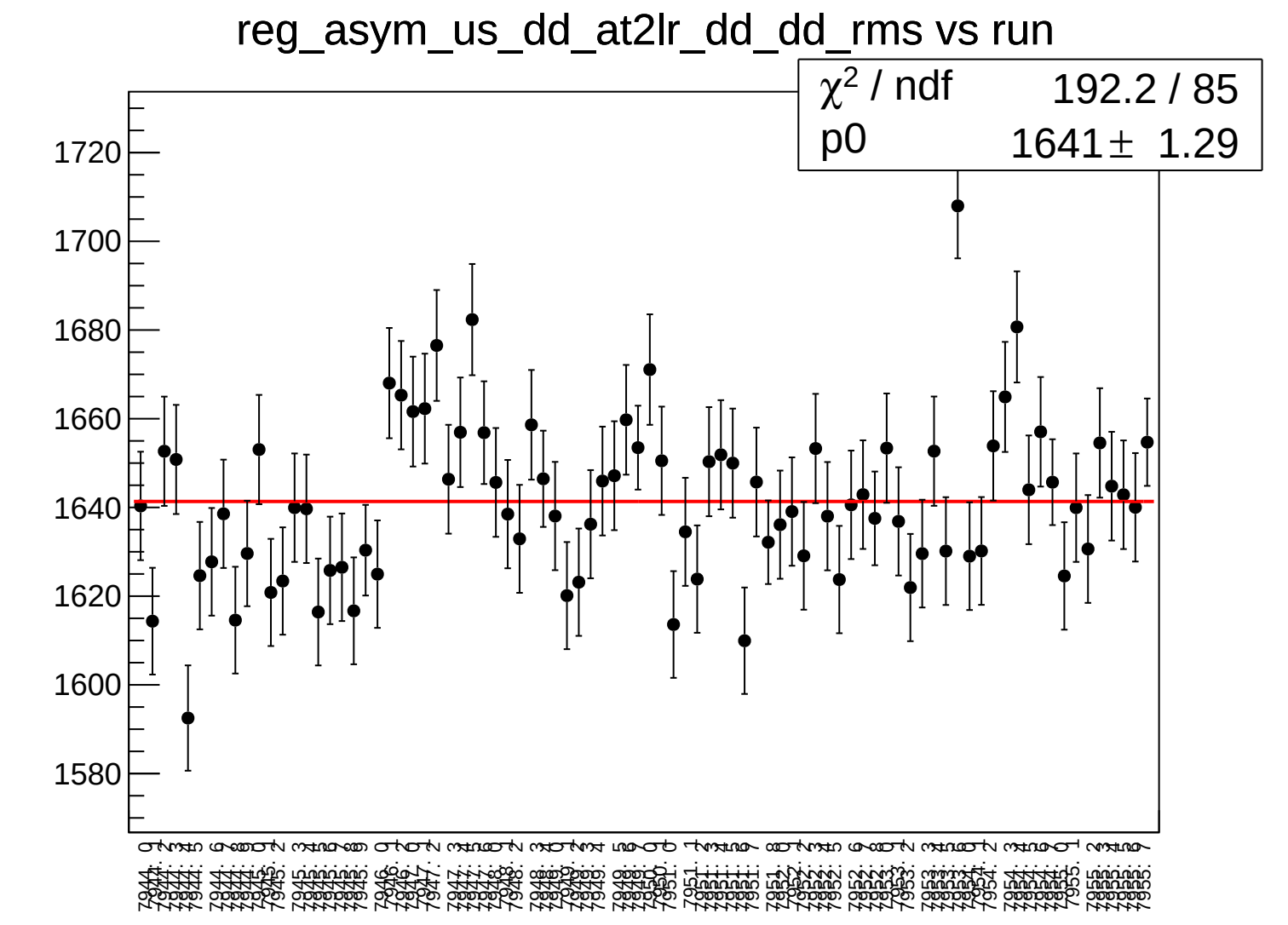

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.01 / 85
p0 −1.588e−13 ± 3.599e−13
pull
Entries 86
Mean 52.46
Std Dev 40.53

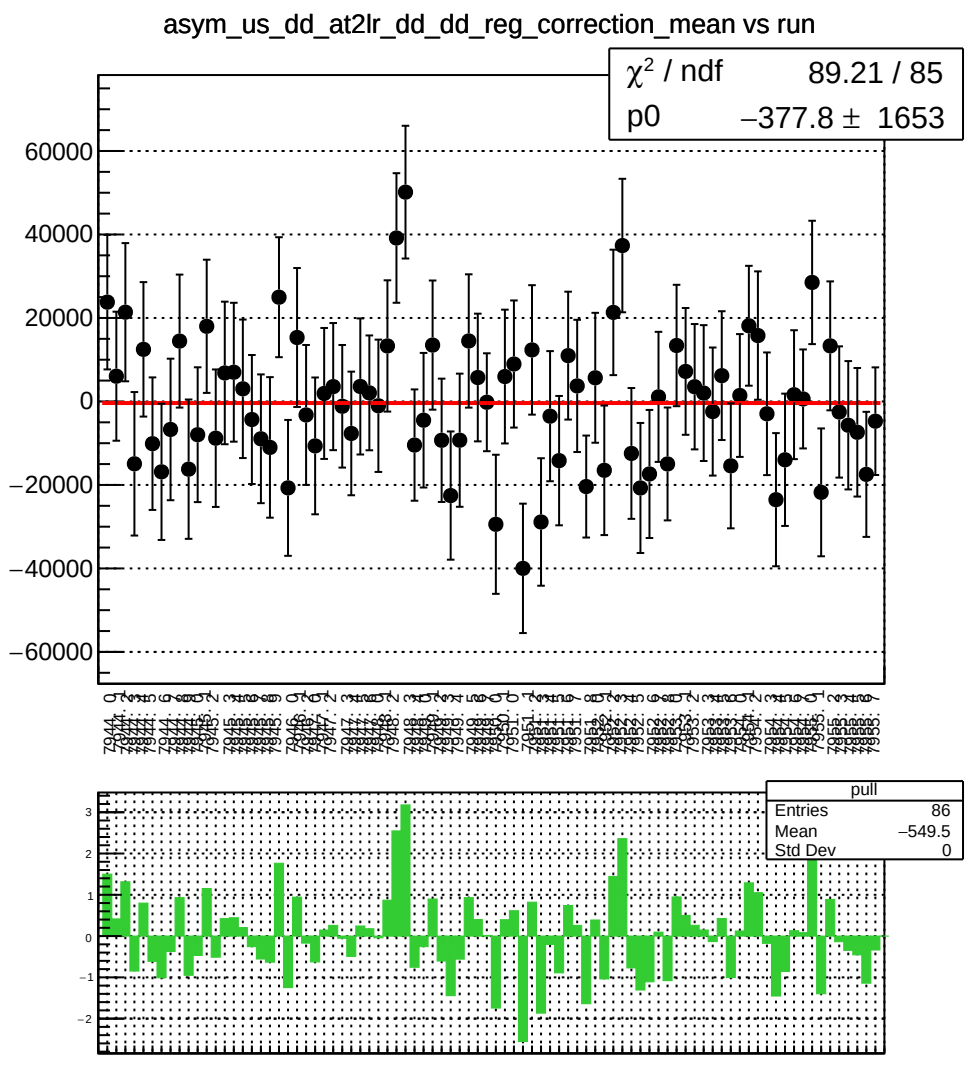

pull1D
Entries 86
Mean 0.04786
Std Dev 0.9138

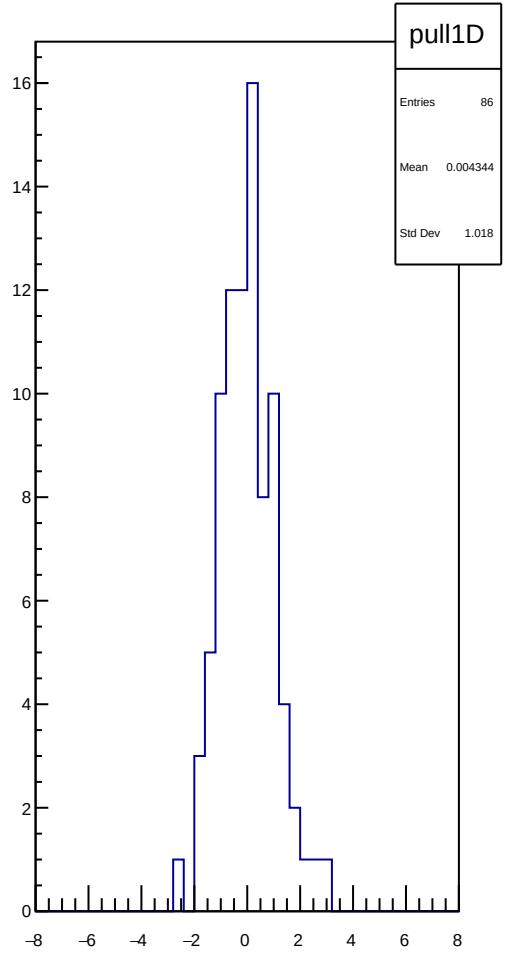

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.435e+05 / 85
p0 2.381e−10 ± 2.545e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

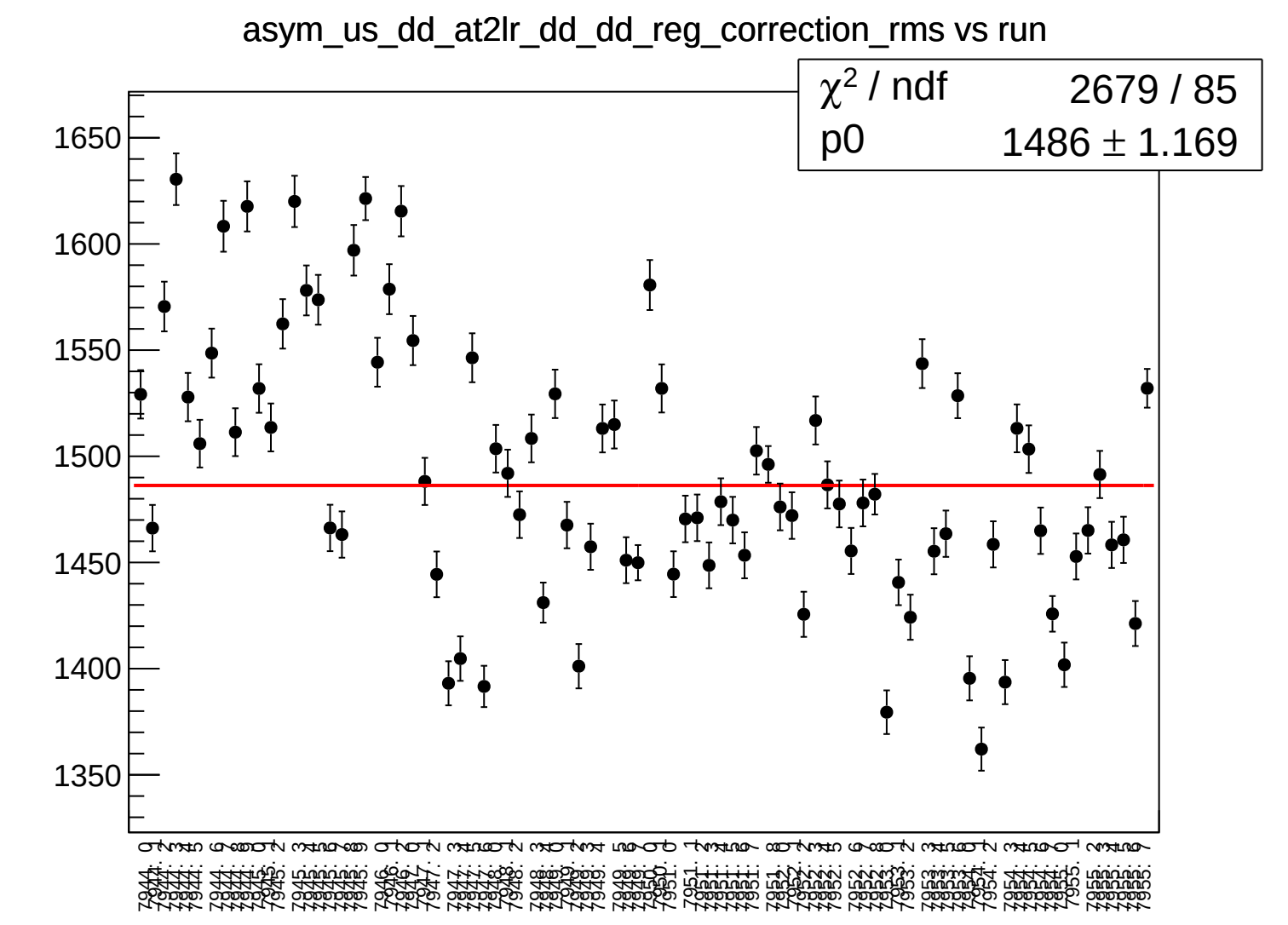

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 115 / 85
p0 2002 ± 1824
pull
Entries 86
Mean −1179
Std Dev 0

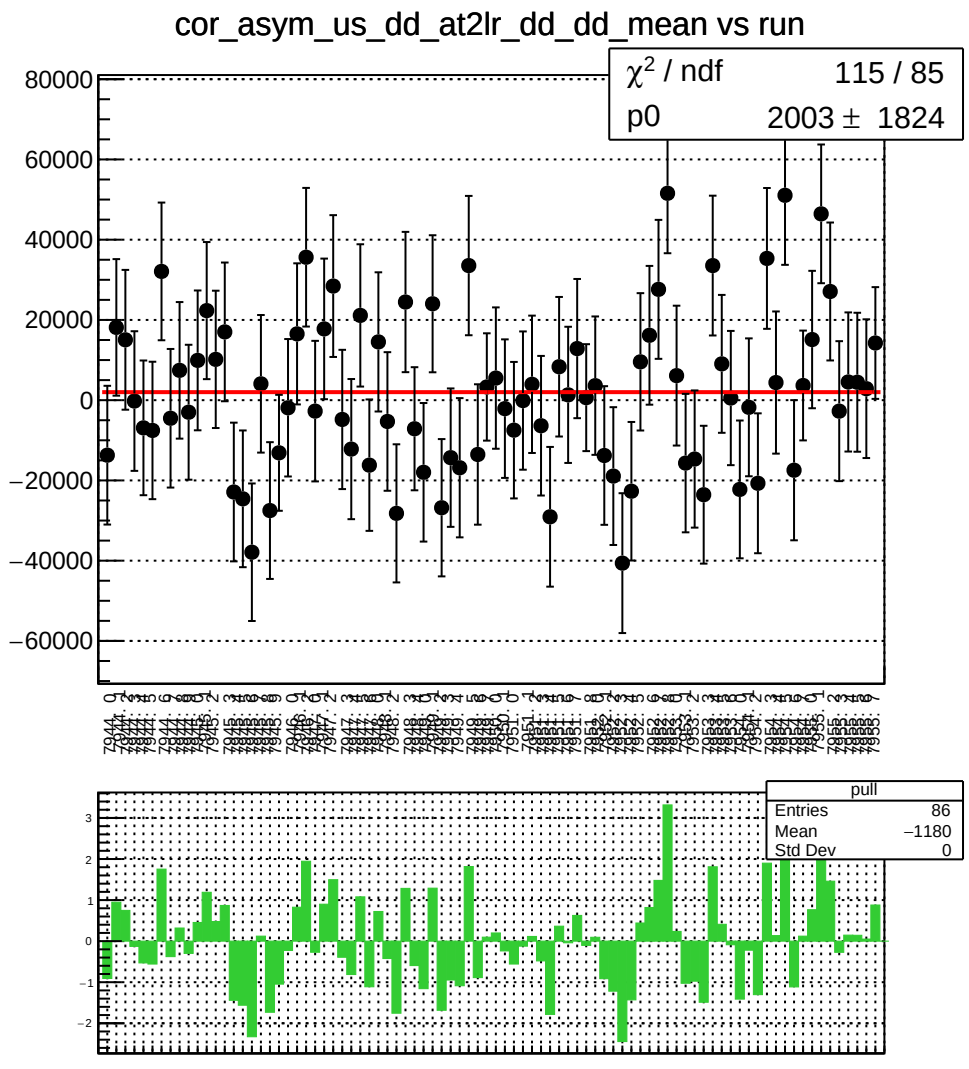

pull1D
Entries 86
Mean −0.002696
Std Dev 1.156

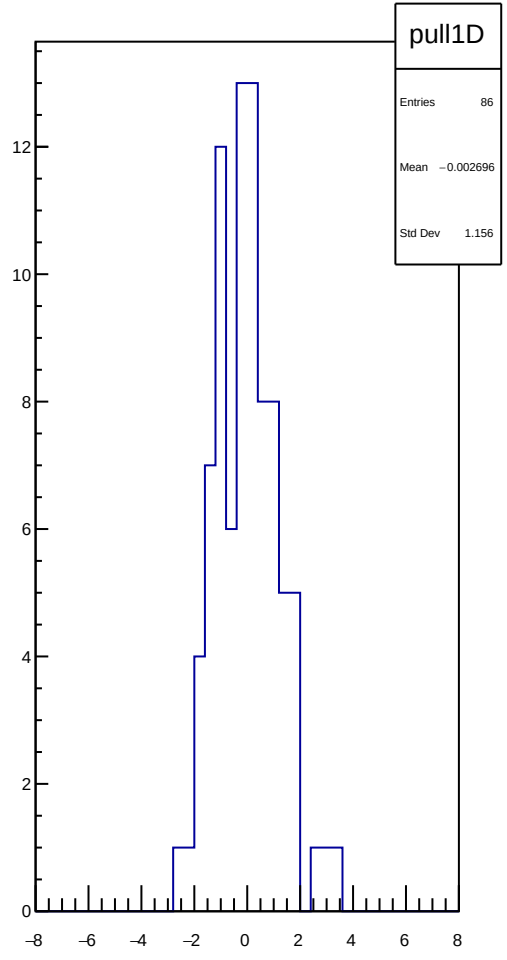

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 192.2 / 85
p0 1641 ± 1.29
1720
1700
1680
1660
1640
1620
1600
1580

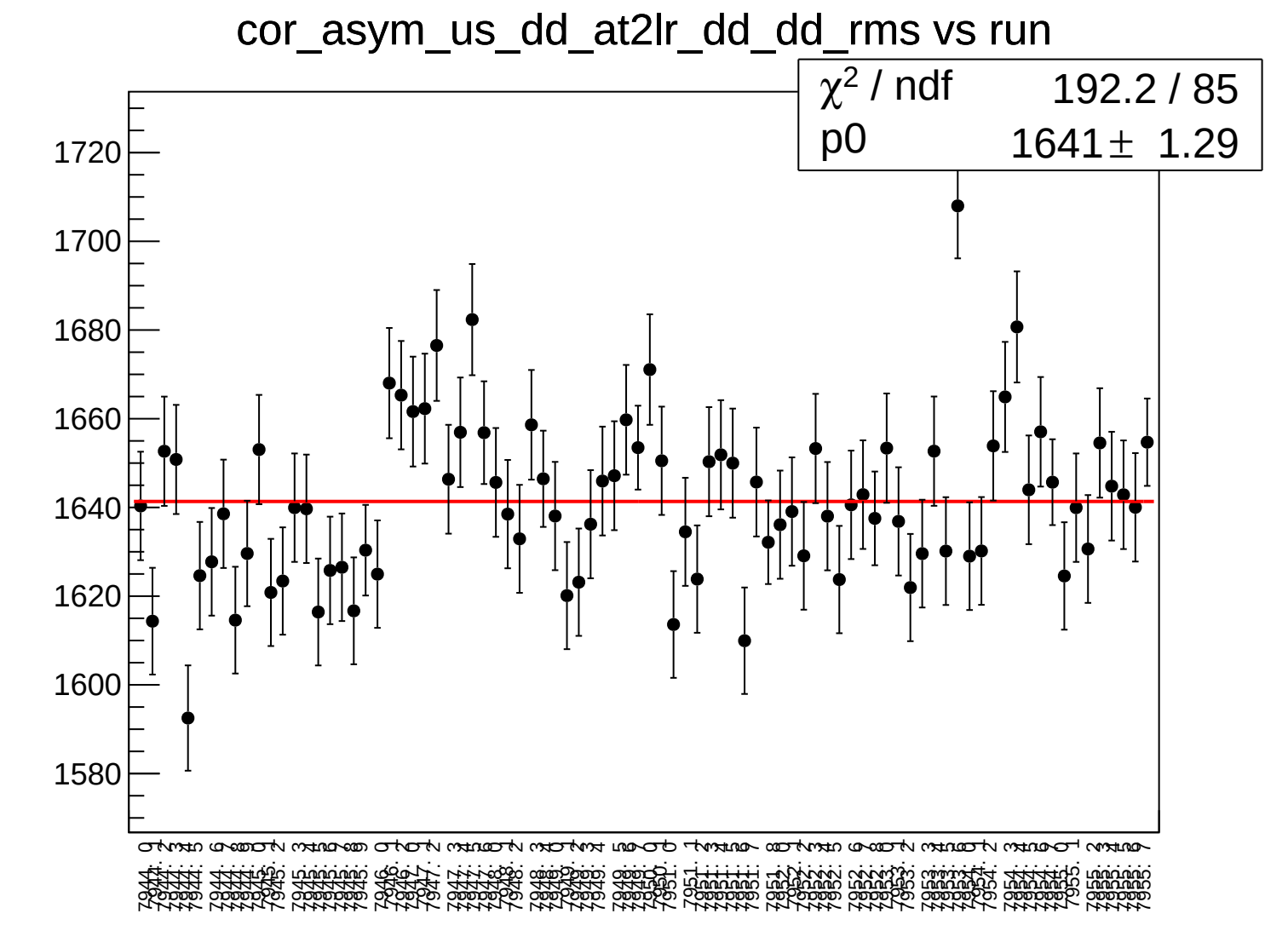

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 89.21 / 85
p0 −377.8 ± 1653
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −549.5
Std Dev 0
3
2
1
0
−1
−2

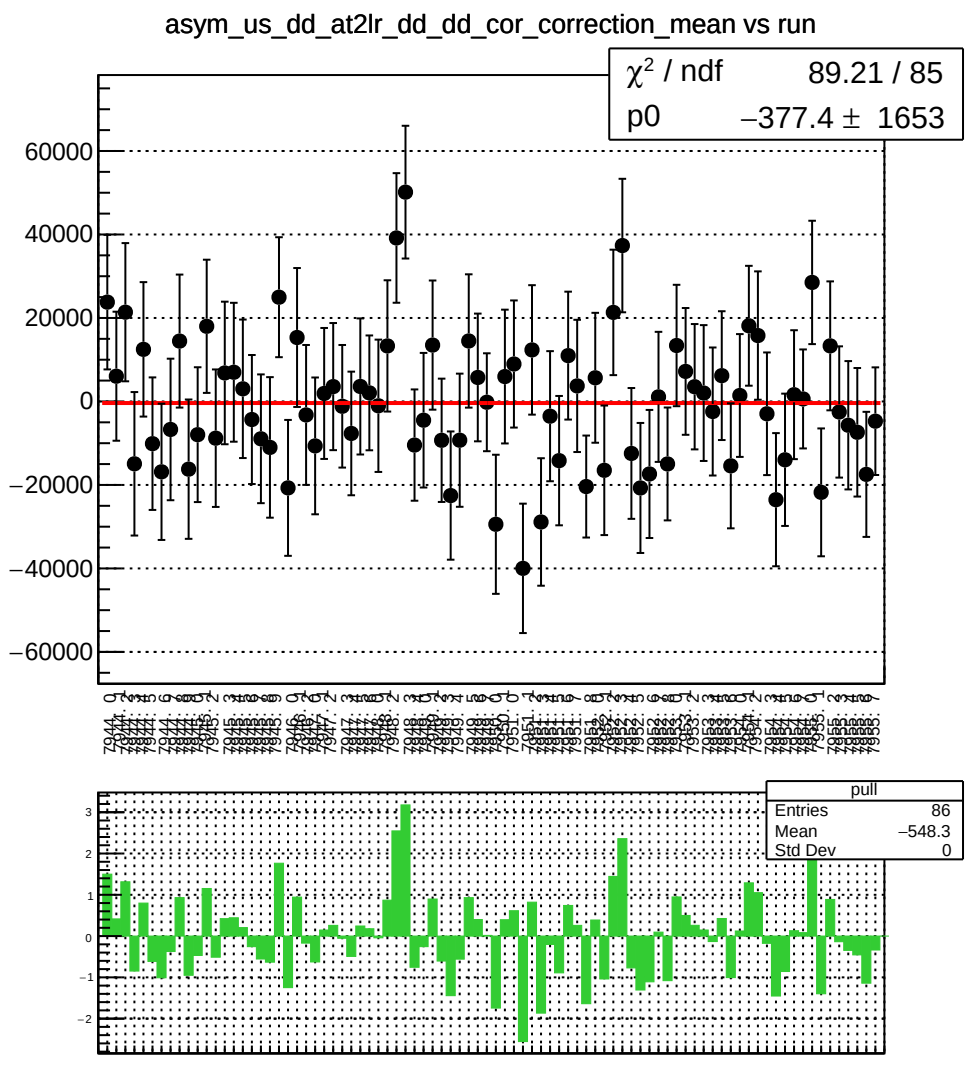

pull1D
Entries 86
Mean 0.004344
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

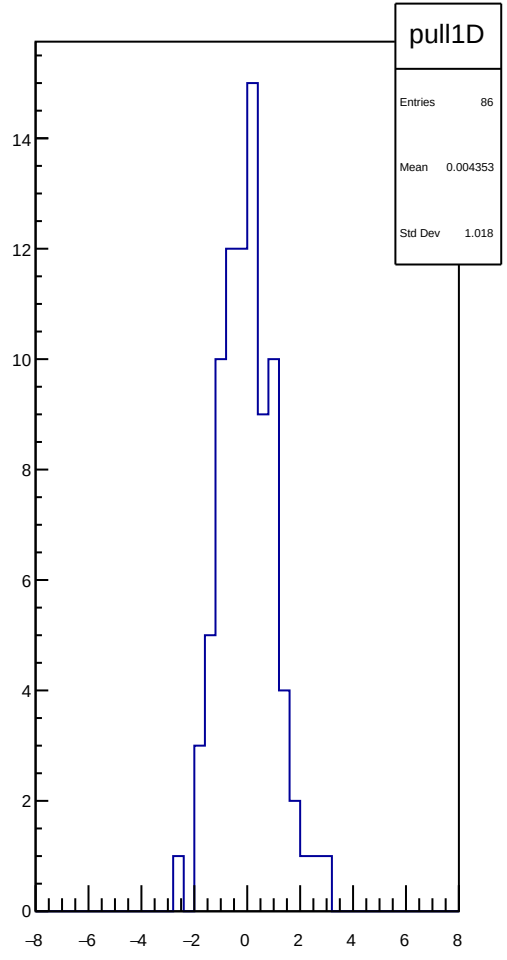

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2679 / 85
p0 1486 ± 1.169
1650
1600
1550
1500
1450
1400
1350

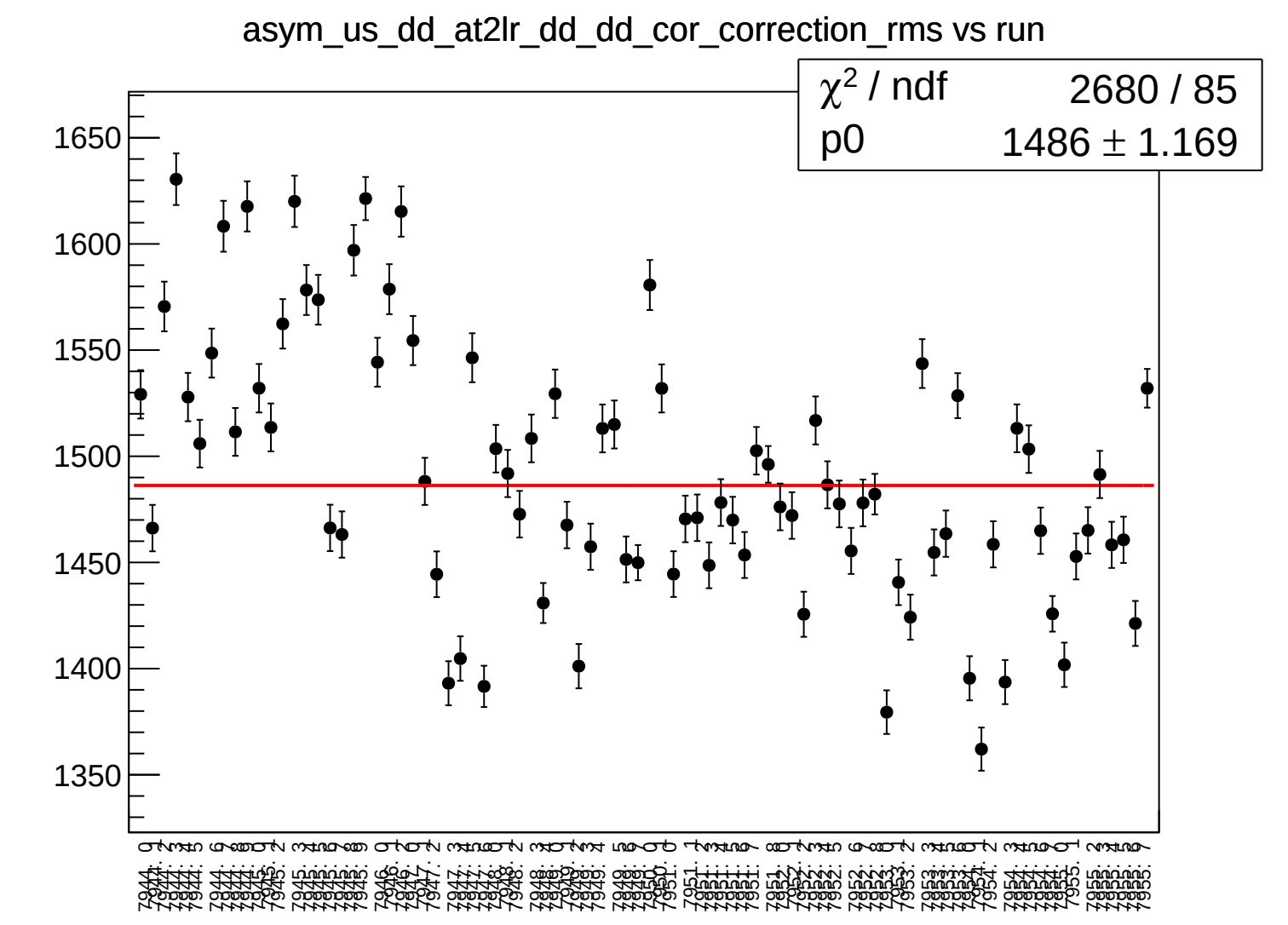

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 115 / 85
p0 2003 ± 1824
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1180
Std Dev 0
3
2
1
0
−1
−2

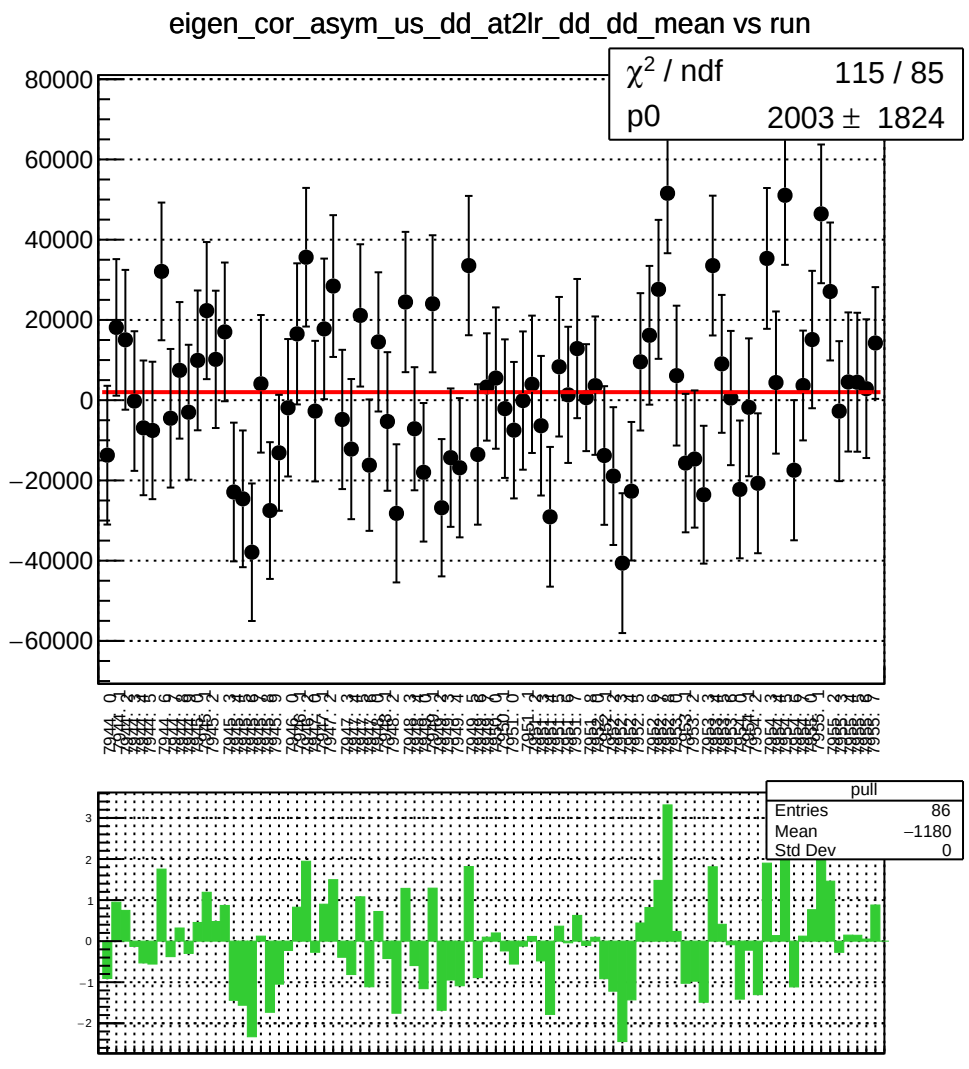

pull1D
Entries 86
Mean −0.002696
Std Dev 1.156
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

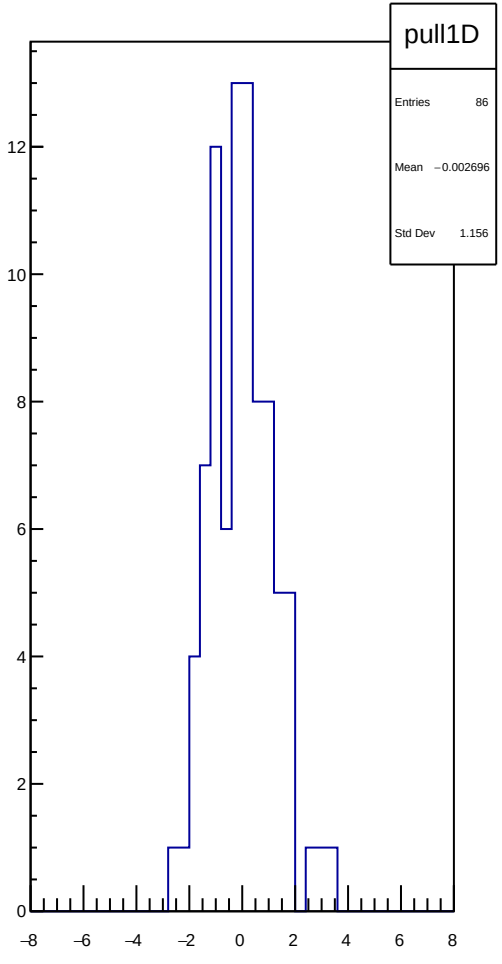

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 192.2 / 85
p0 1641 ± 1.29
1720
1700
1680
1660
1640
1620
1600
1580

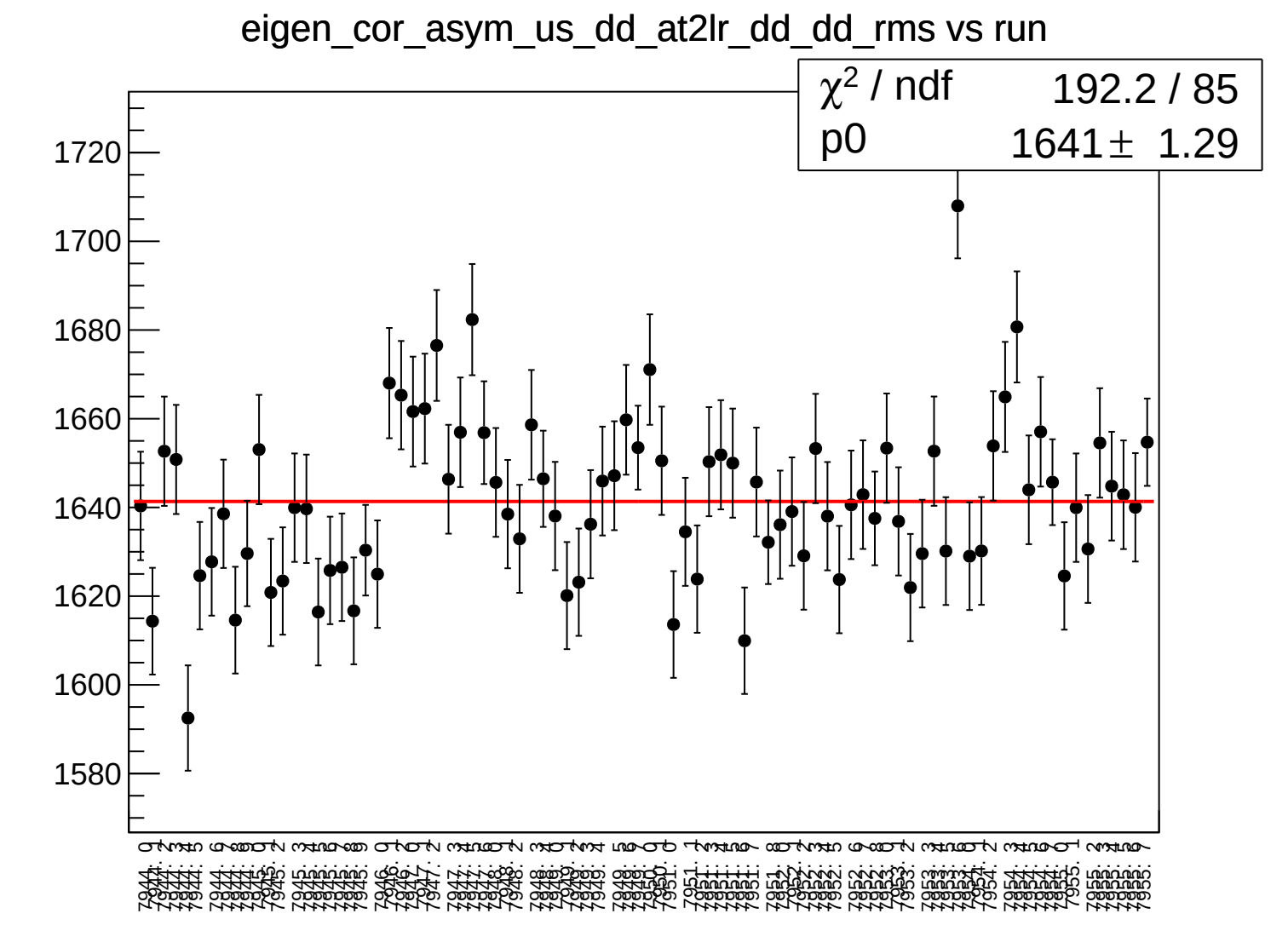

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 89.21 / 85
p0 −377.4 ± 1653
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −548.3
Std Dev 0
3
2
1
0
−1
−2

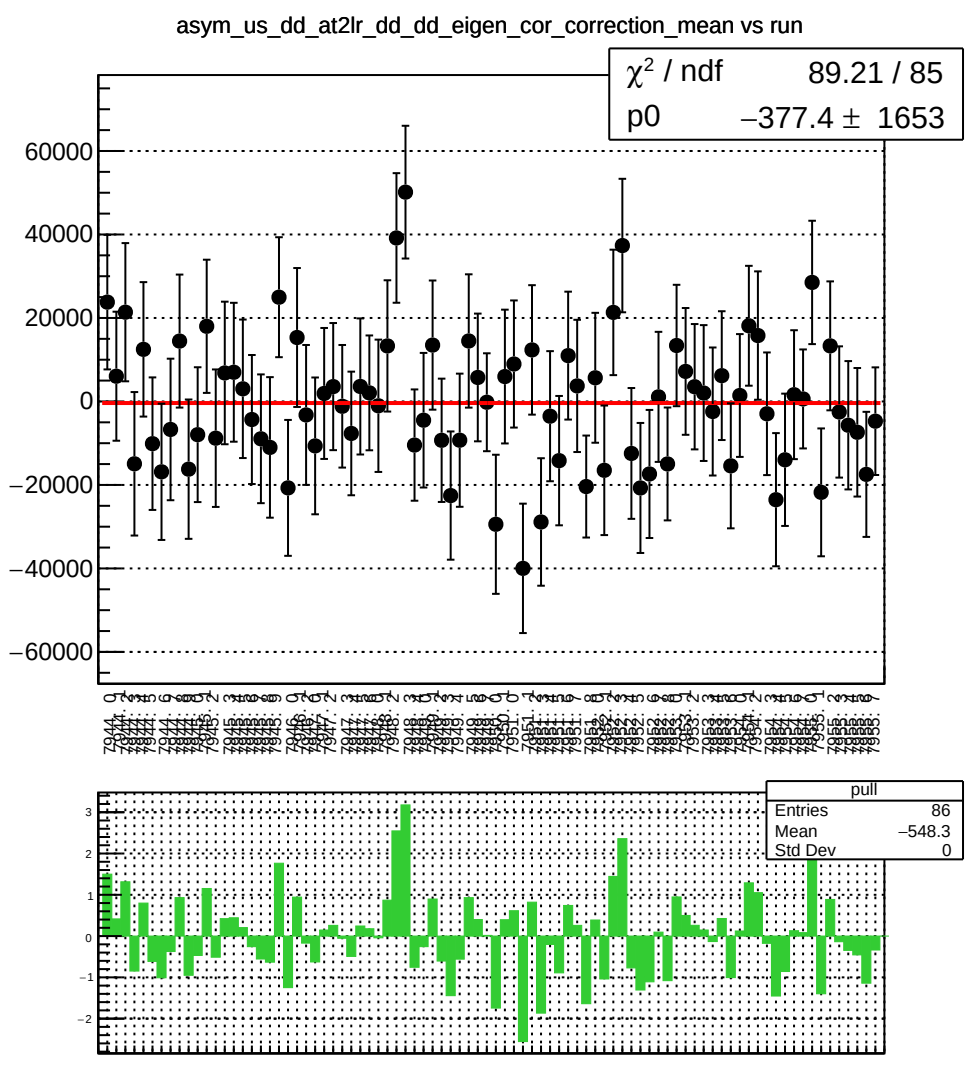

pull1D
Entries 86
Mean 0.004353
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

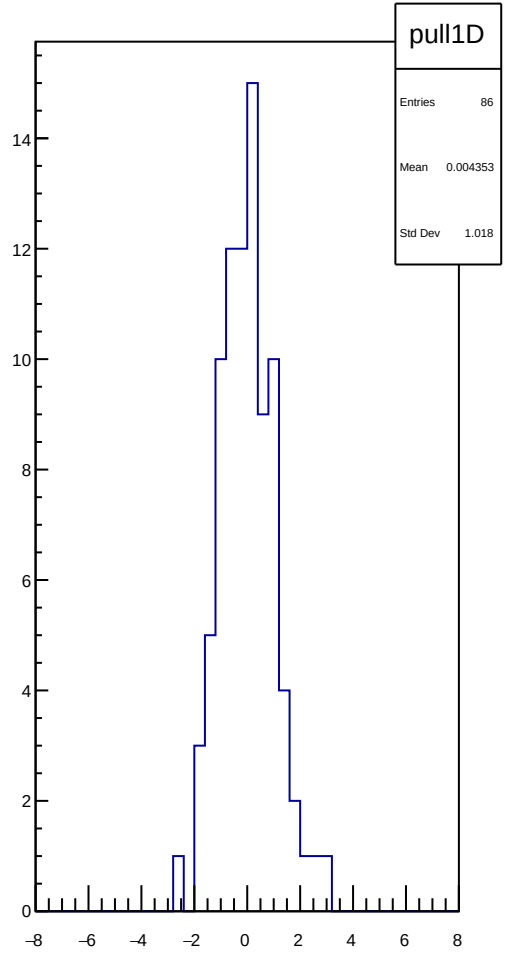

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2680 / 85
p0 1486 ± 1.169
1650
1600
1550
1500
1450
1400
1350

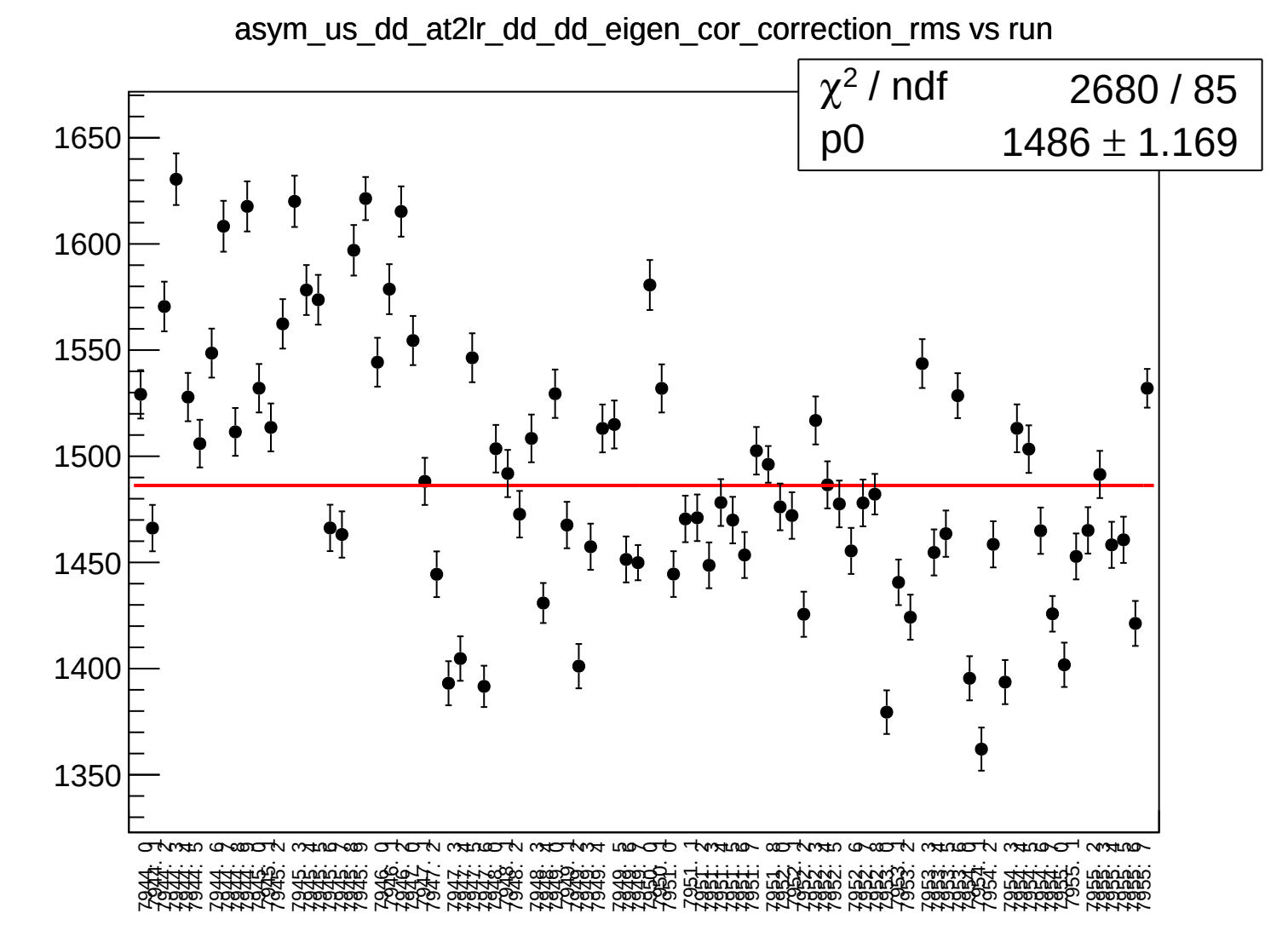

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 115 / 85
p0 2003 ± 1824
pull
Entries 86
Mean −1180
Std Dev 0

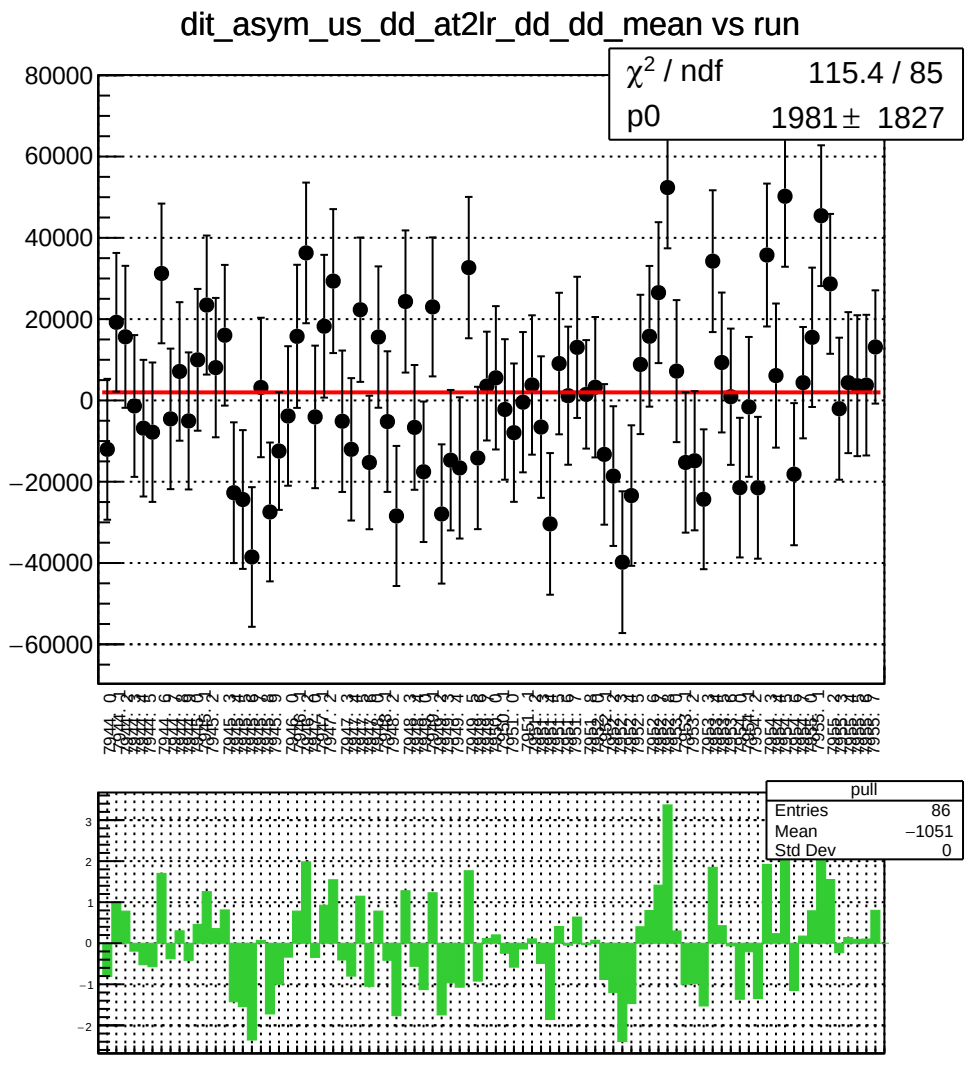

pull1D
Entries 86
Mean −0.002696
Std Dev 1.156

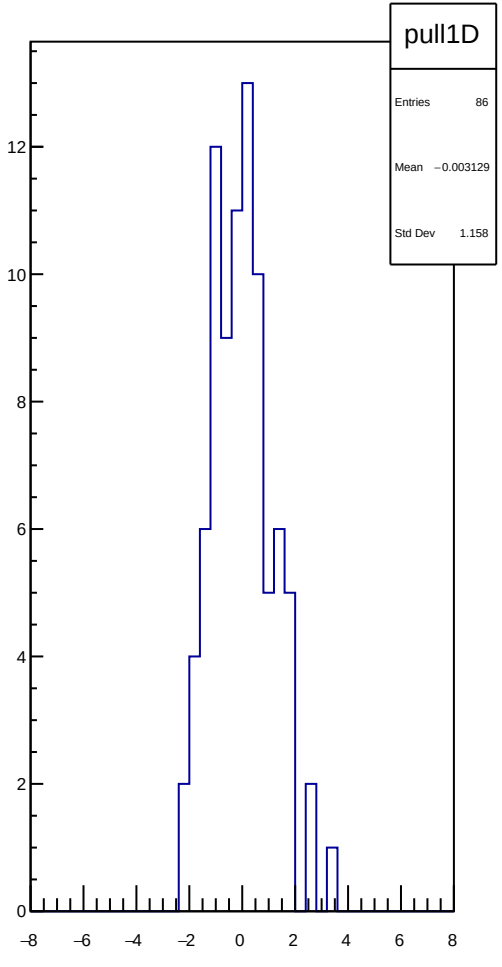

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 192.2 / 85
p0 1641 ± 1.29
1720
1700
1680
1660
1640
1620
1600
1580

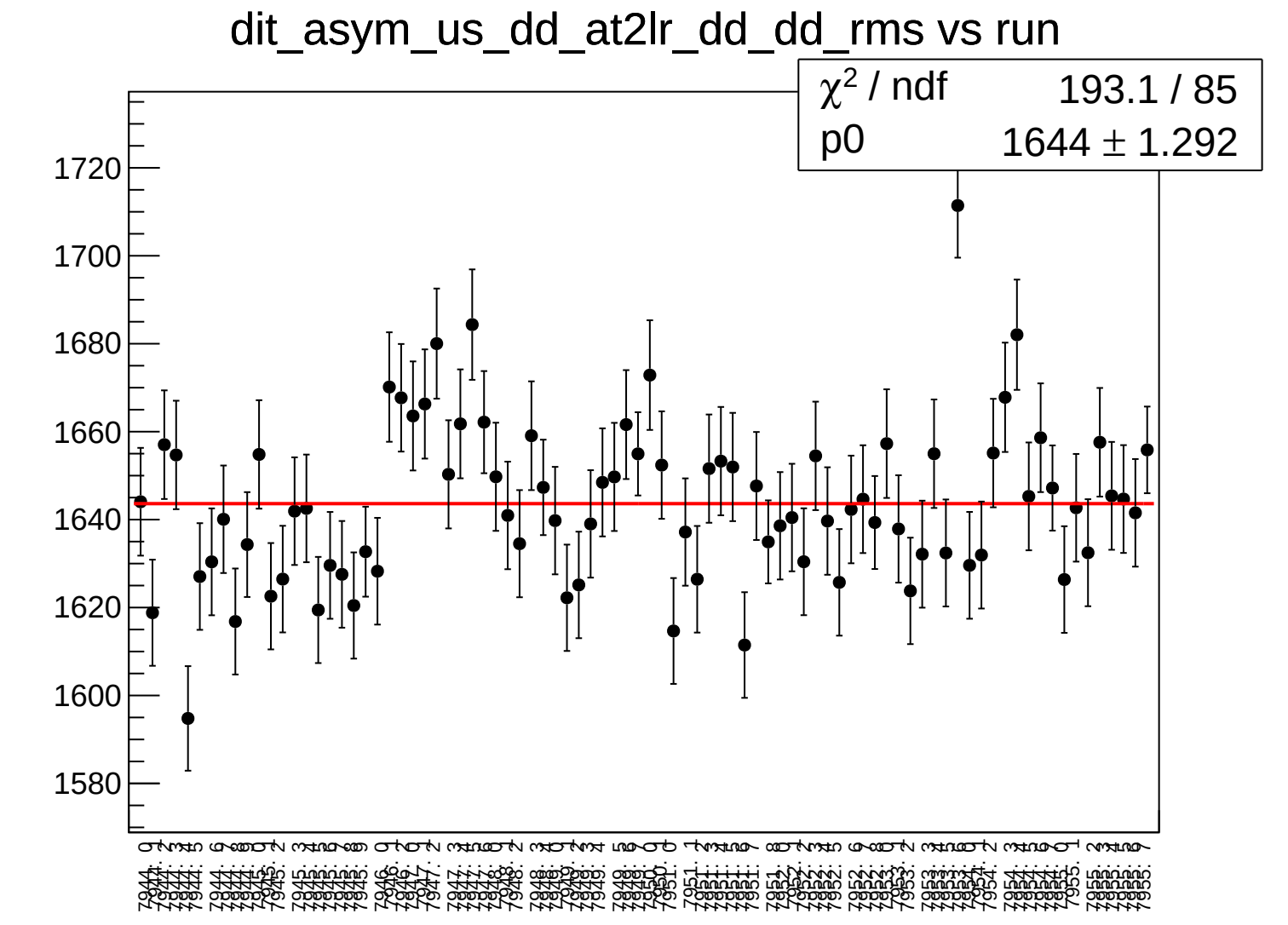

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.21 / 85
p0 −377.4 ± 1653
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −548.3
Std Dev 0
3
2
1
0
−1
−2

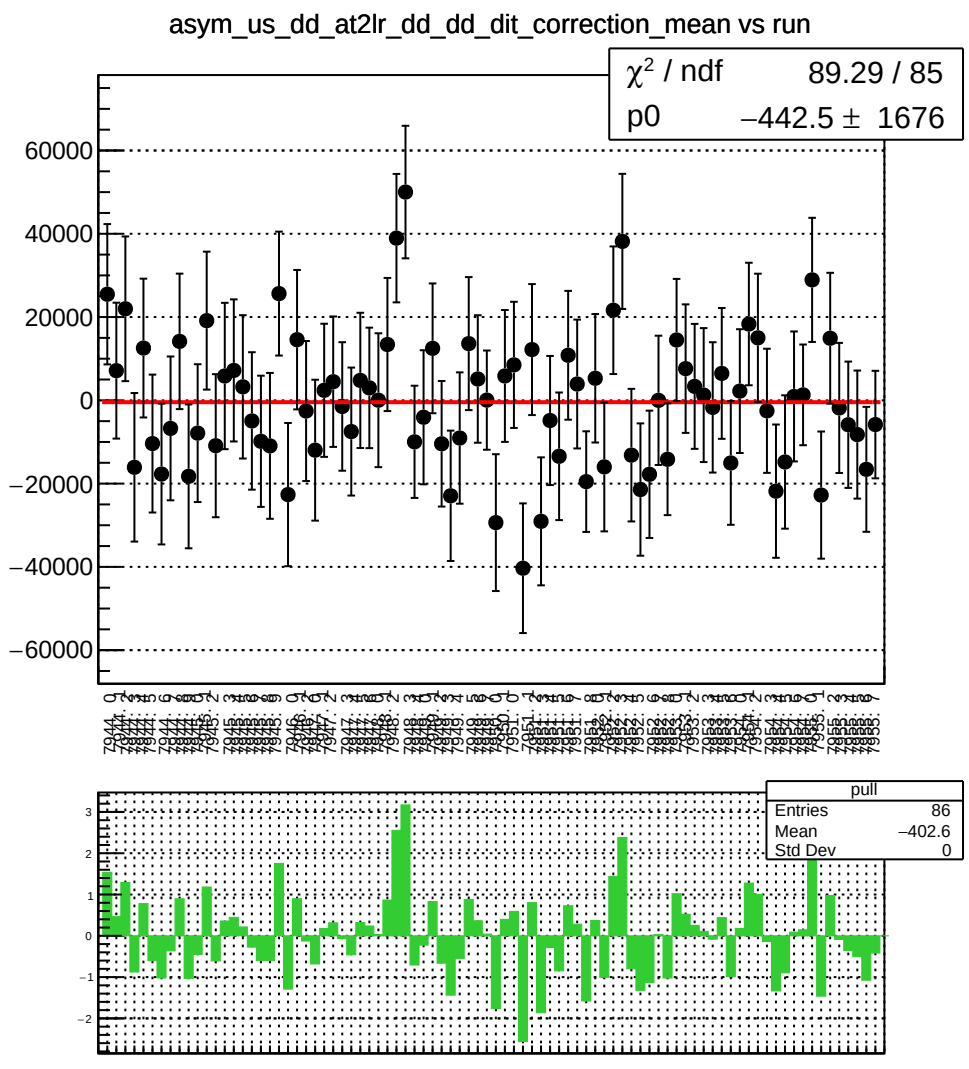

pull1D
Entries 86
Mean 0.004353
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

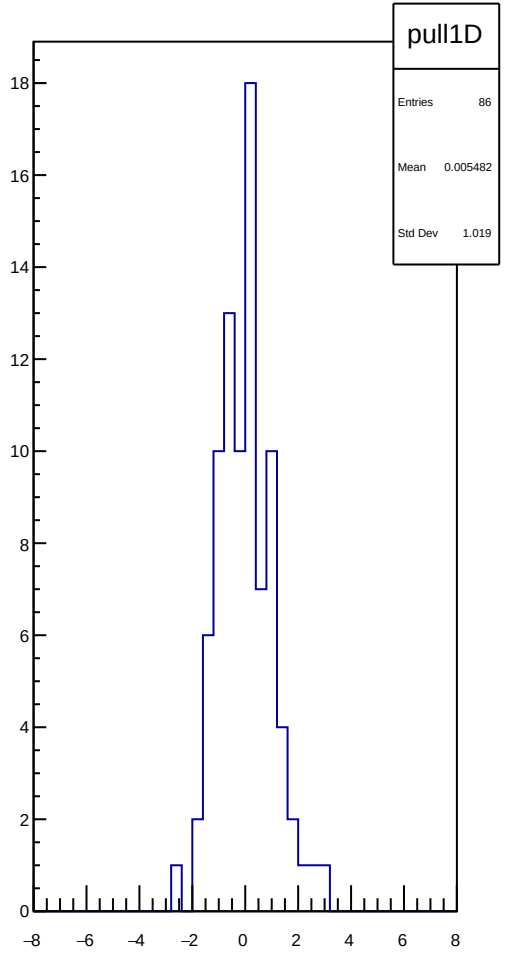

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2680 / 85
p0 1486 ± 1.169
1650
1600
1550
1500
1450
1400
1350

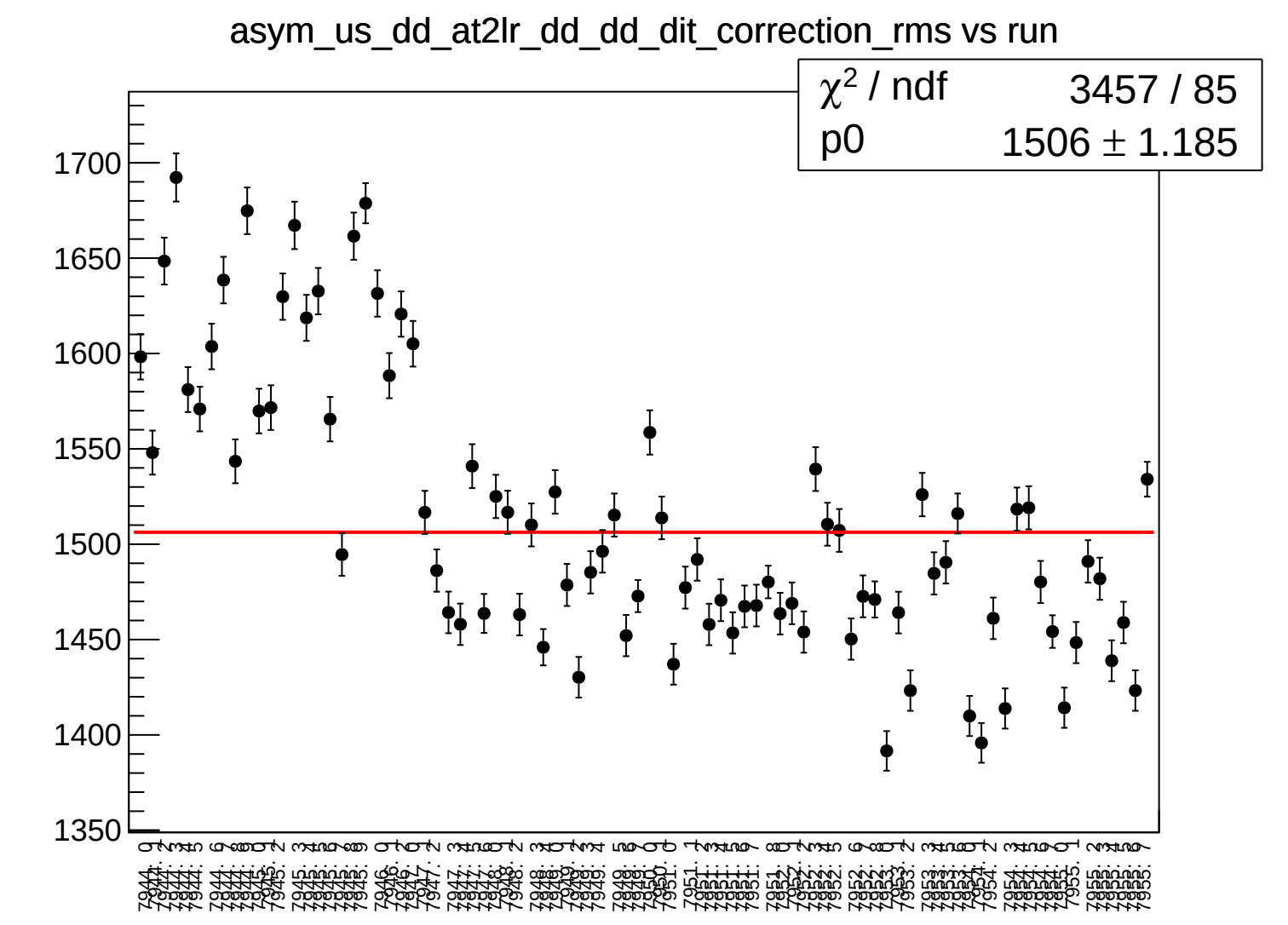

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 115.4 / 85
p0 1981 ± 1827
pull
Entries 86
Mean −1051
Std Dev 0

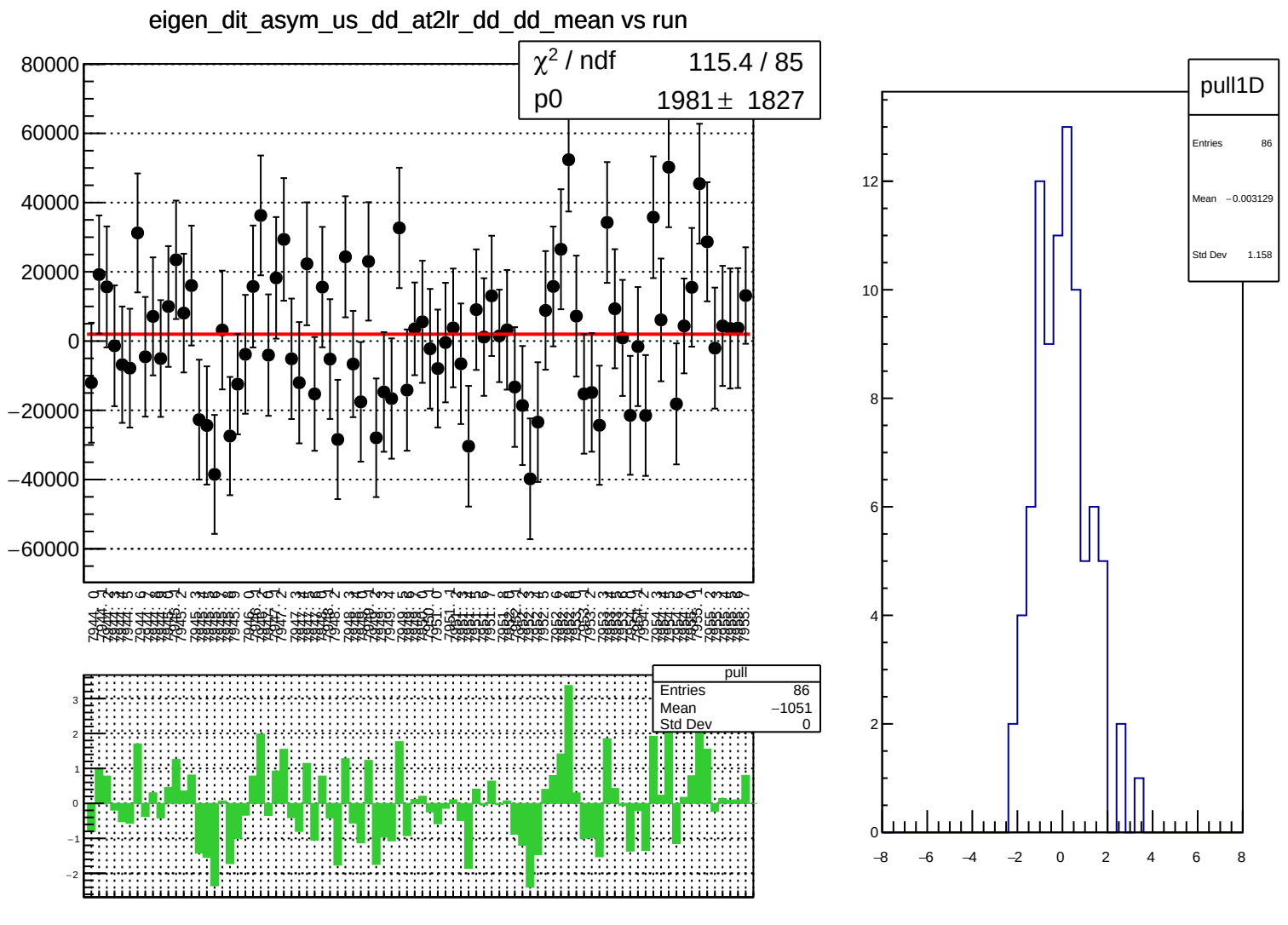

pull1D
Entries 86
Mean −0.003129
Std Dev 1.158

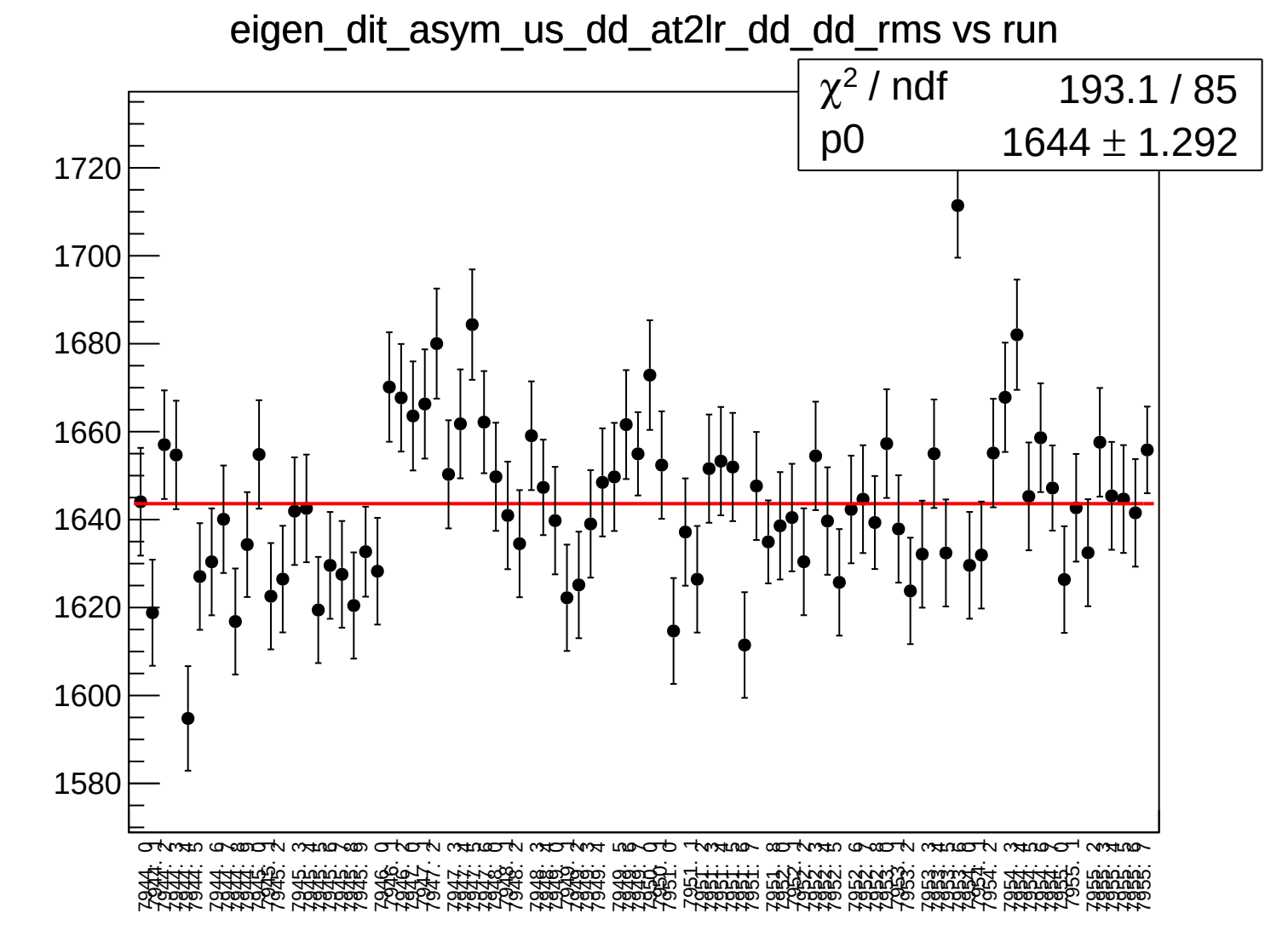

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 193.1 / 85
p0 1644 ± 1.292
1720
1700
1680
1660
1640
1620
1600
1580

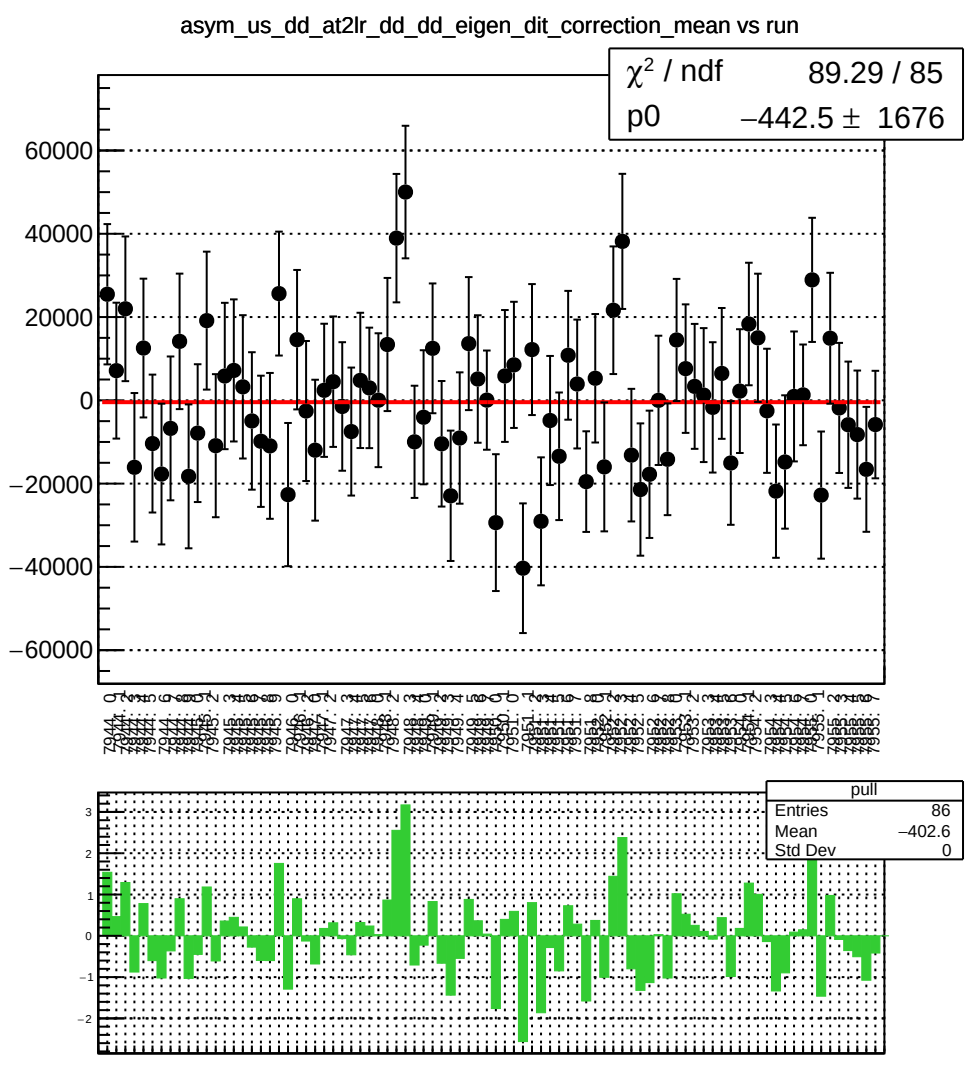

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 89.29 / 85
p0 −442.5 ± 1676
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −402.6
Std Dev 0
3
2
1
0
−1
−2

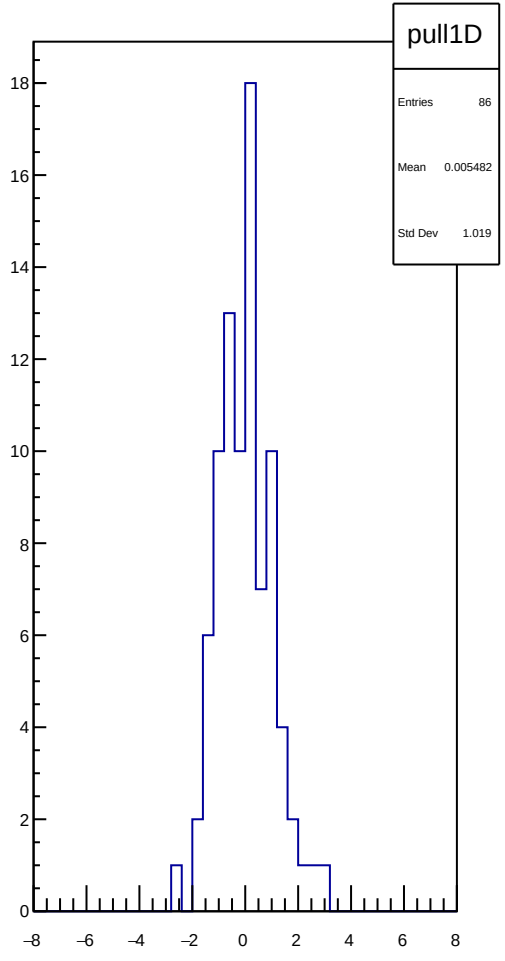

pull1D
Entries 86
Mean 0.005482
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

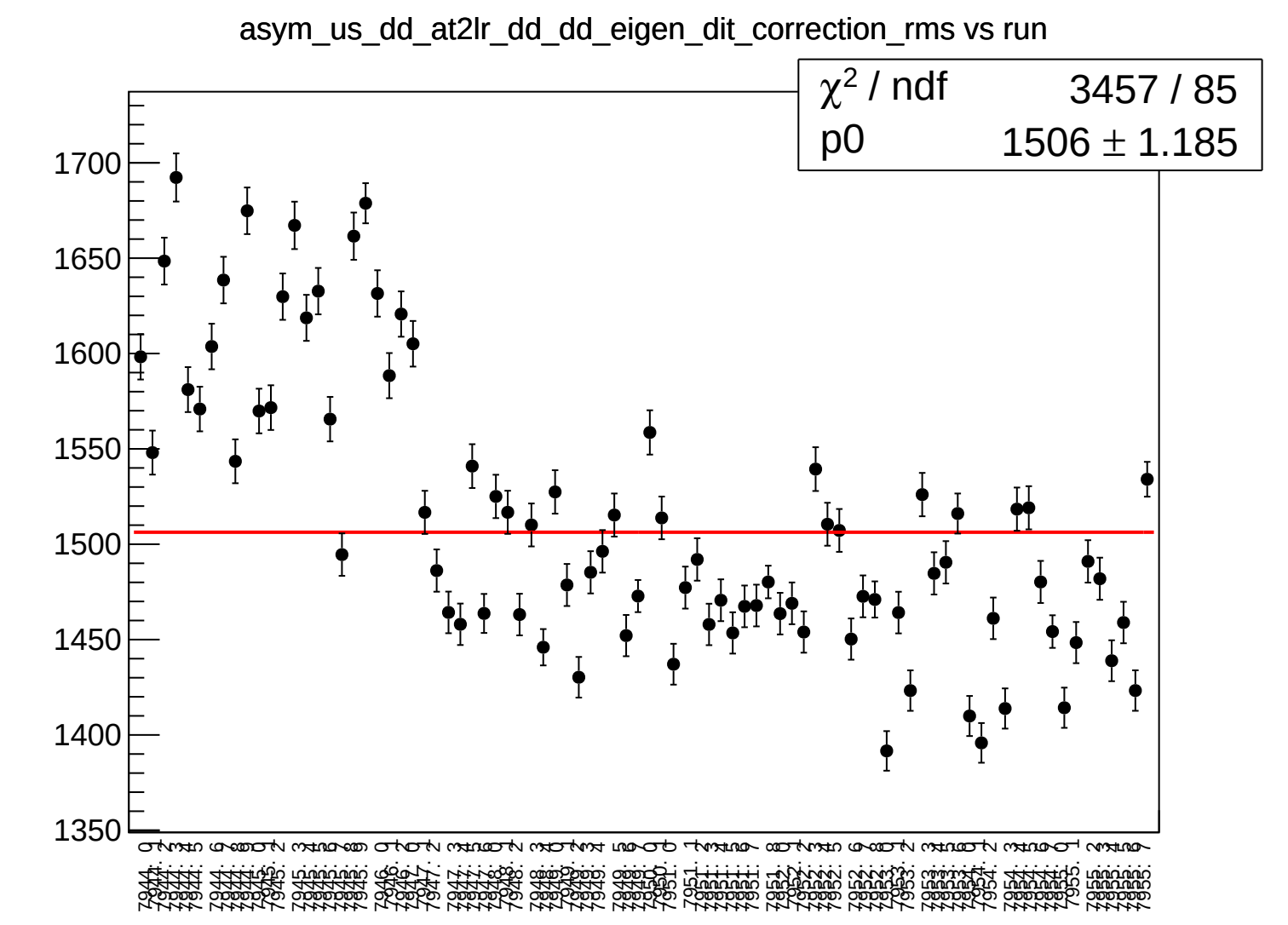

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3457 / 85
p0 1506 ± 1.185
1700
1650
1600
1550
1500
1450
1400
1350

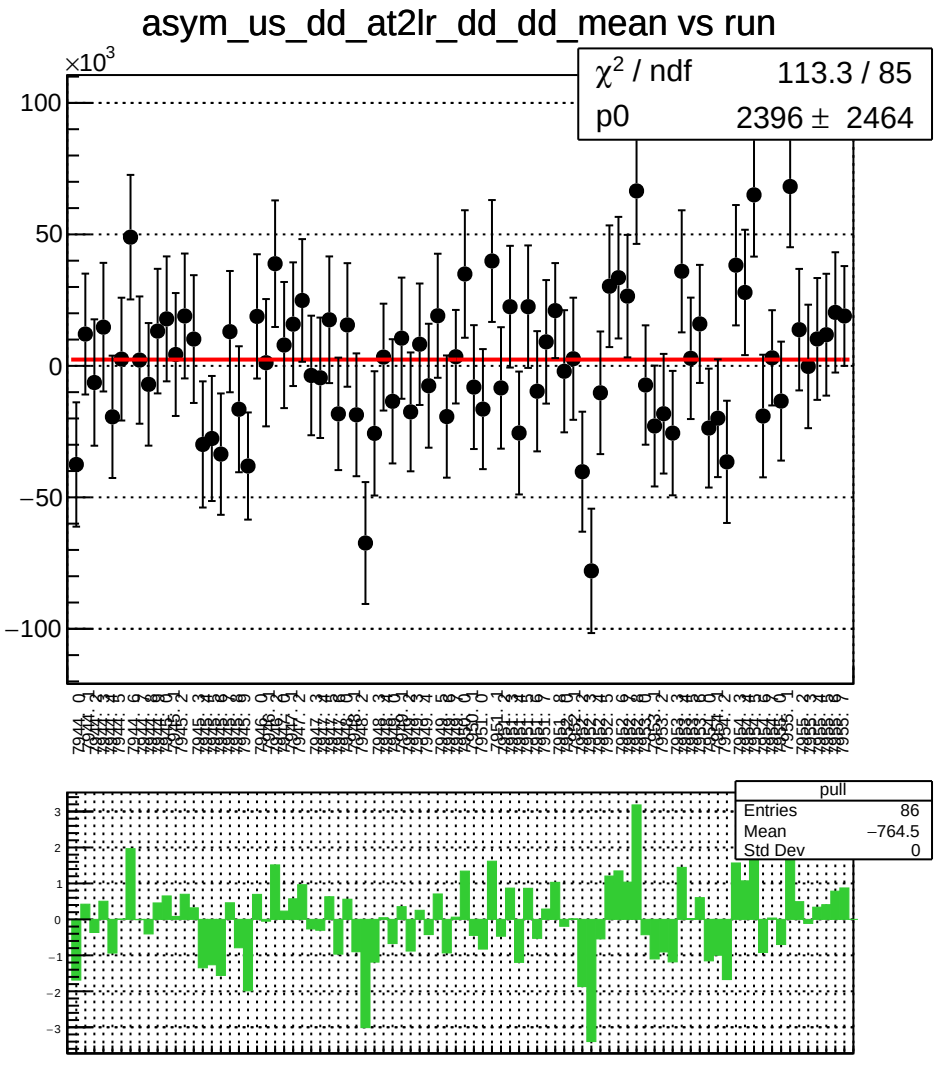

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 115.4 / 85
p0 1981 ± 1827
pull
Entries 86
Mean −1051
Std Dev 0
pull1D
Entries 86
Mean −0.003129
Std Dev 1.158

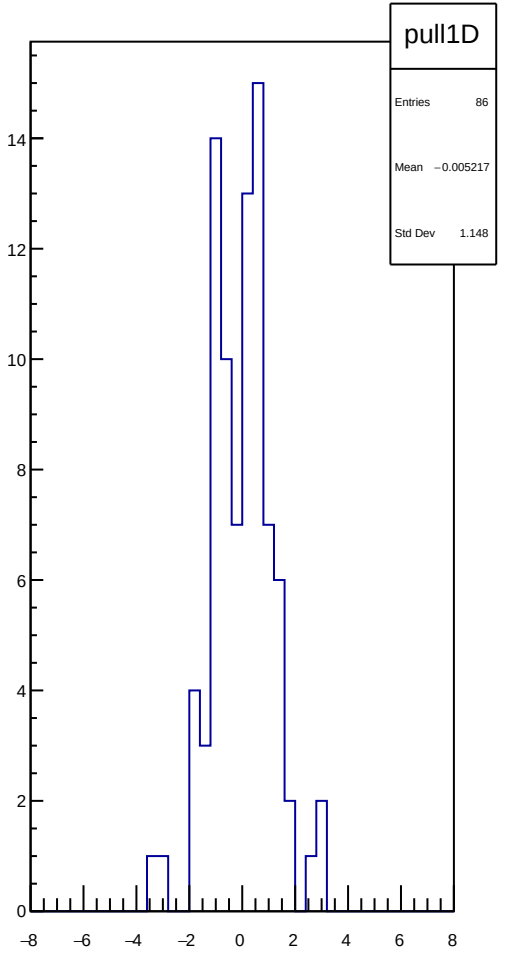

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 193.1 / 85
p0 1644 ± 1.292
1720
1700
1680
1660
1640
1620
1600
1580

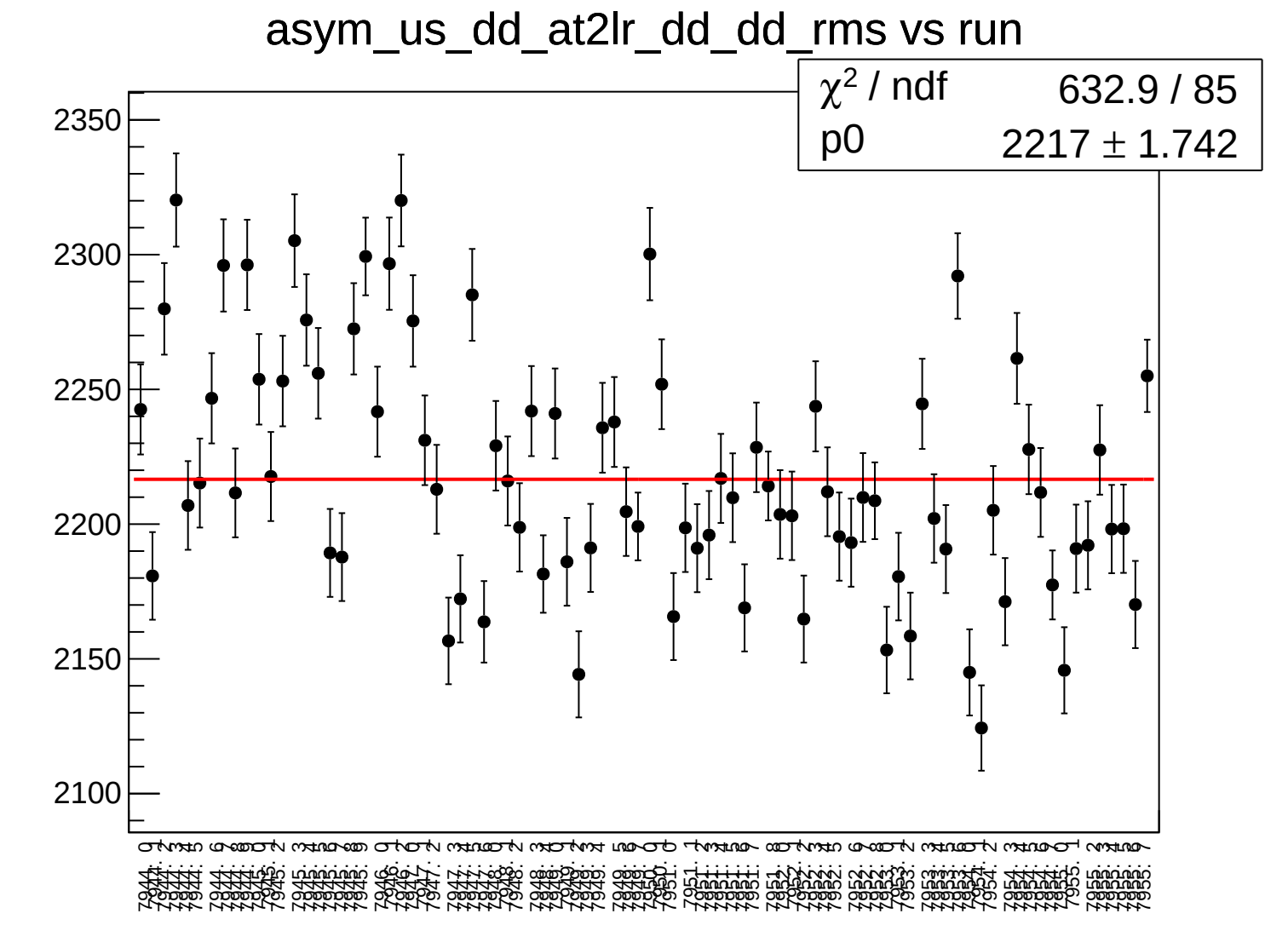

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.29 / 85
p0 −442.5 ± 1676
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −402.6
Std Dev 0
3
2
1
0
−1
−2

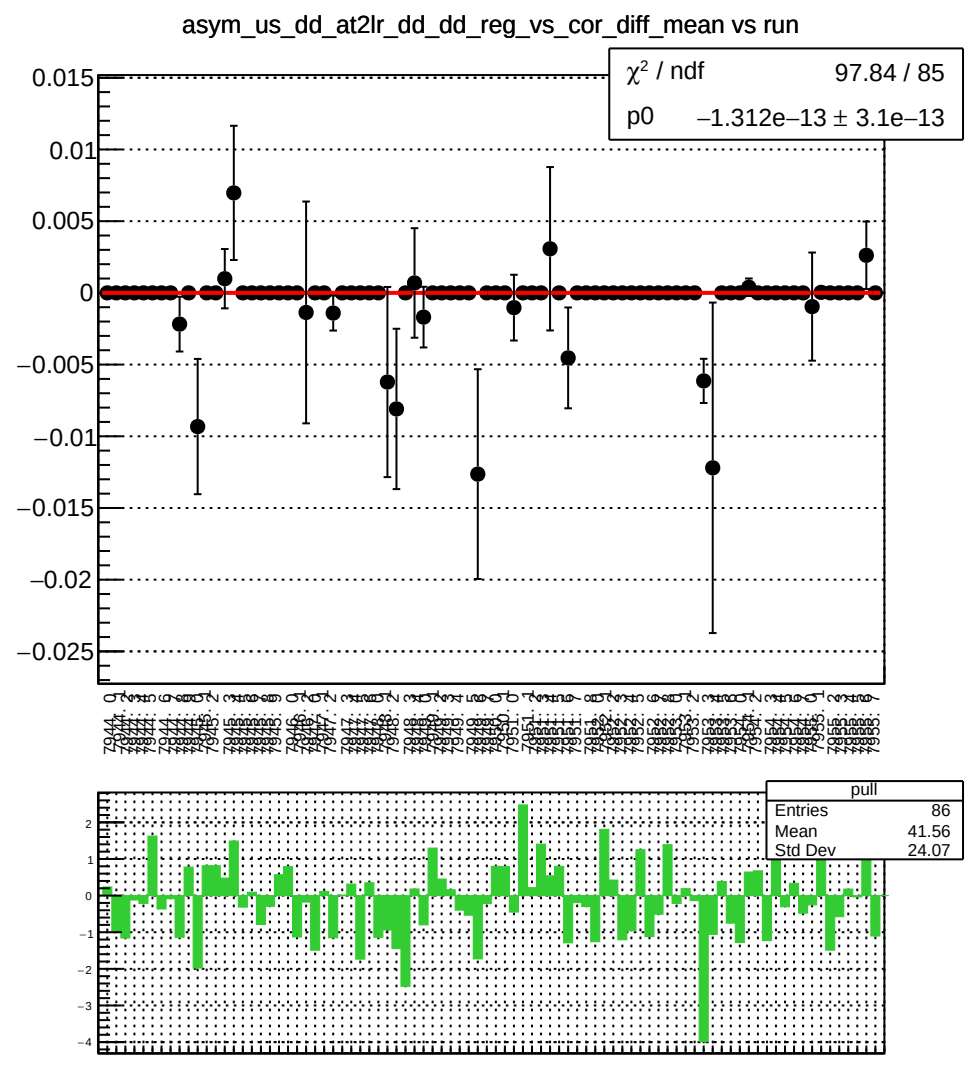

pull1D
Entries 86
Mean 0.005482
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

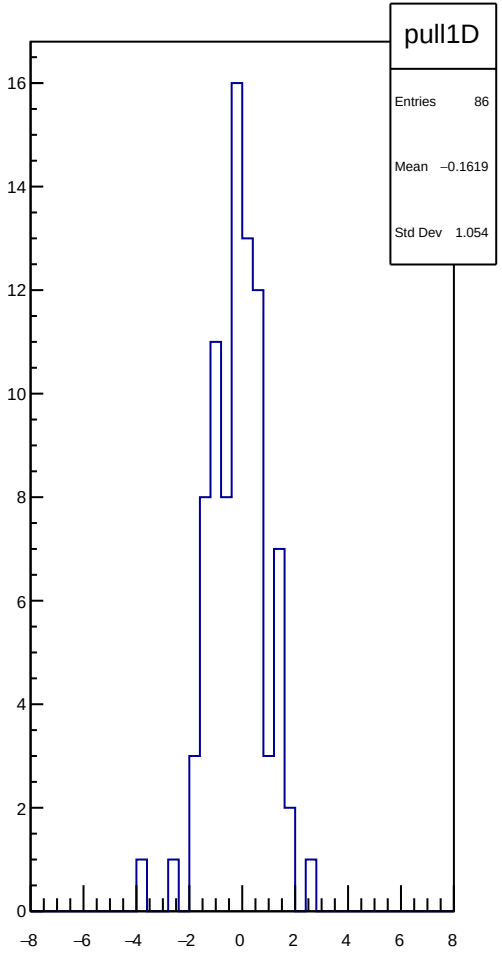

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3457 / 85
p0 1506 ± 1.185
1700
1650
1600
1550
1500
1450
1400
1350

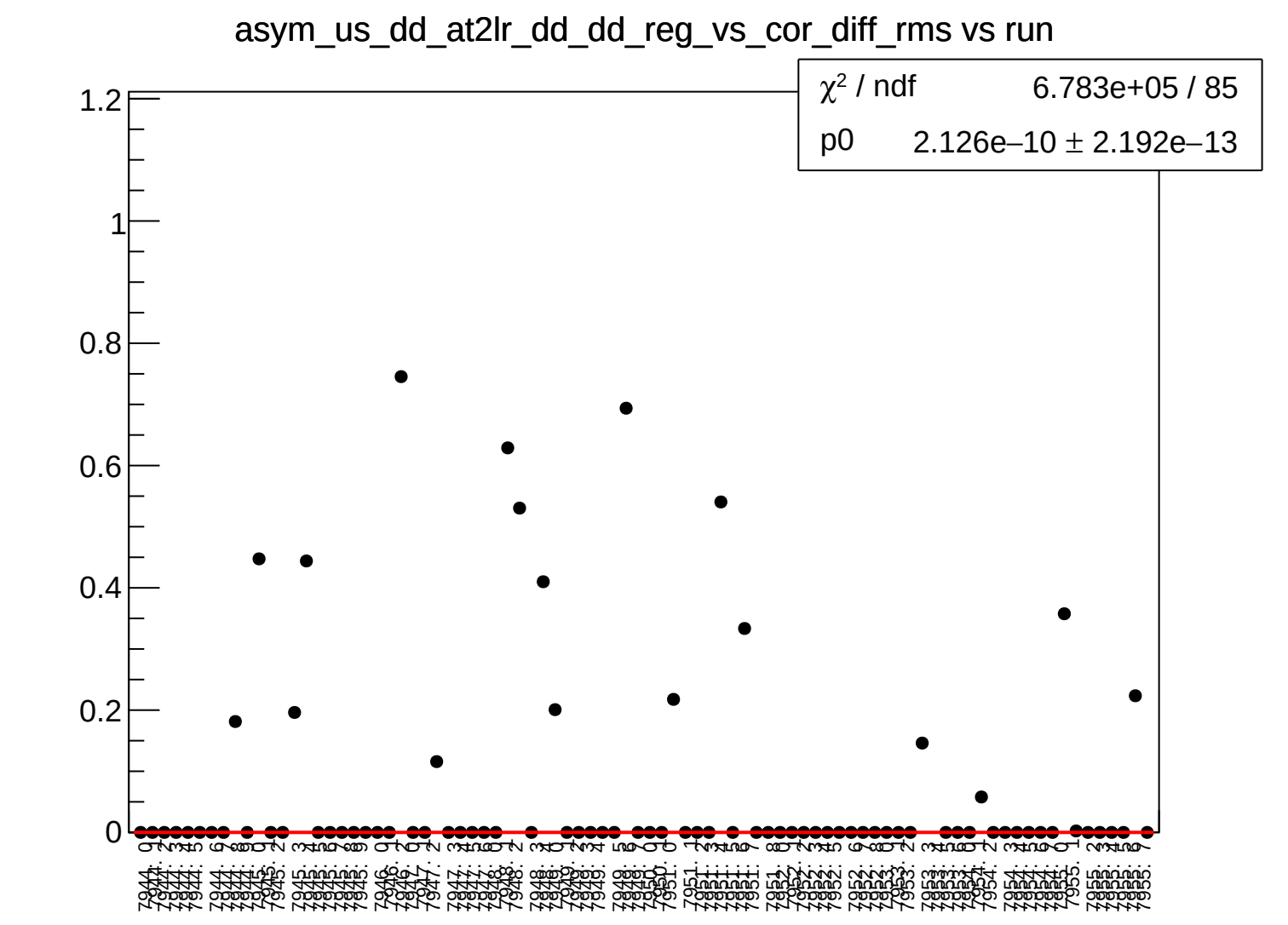

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 113.3 / 85
p0 2396 ± 2464
100
50
0
−50
−100
pull
Entries 86
Mean −764.5
Std Dev 0
3
2
1
0
−1
−2
−3

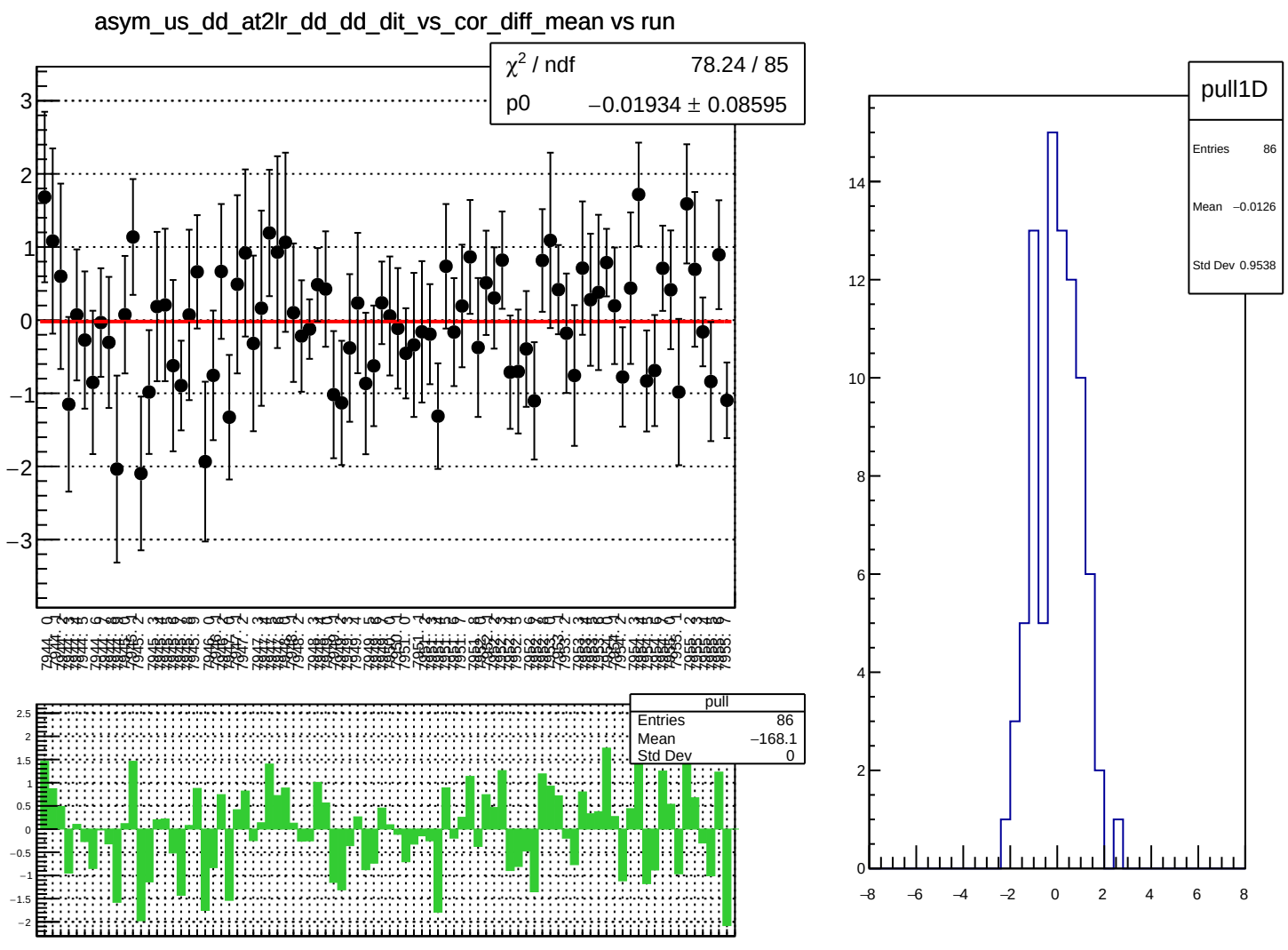

pull1D
Entries 86
Mean −0.005217
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

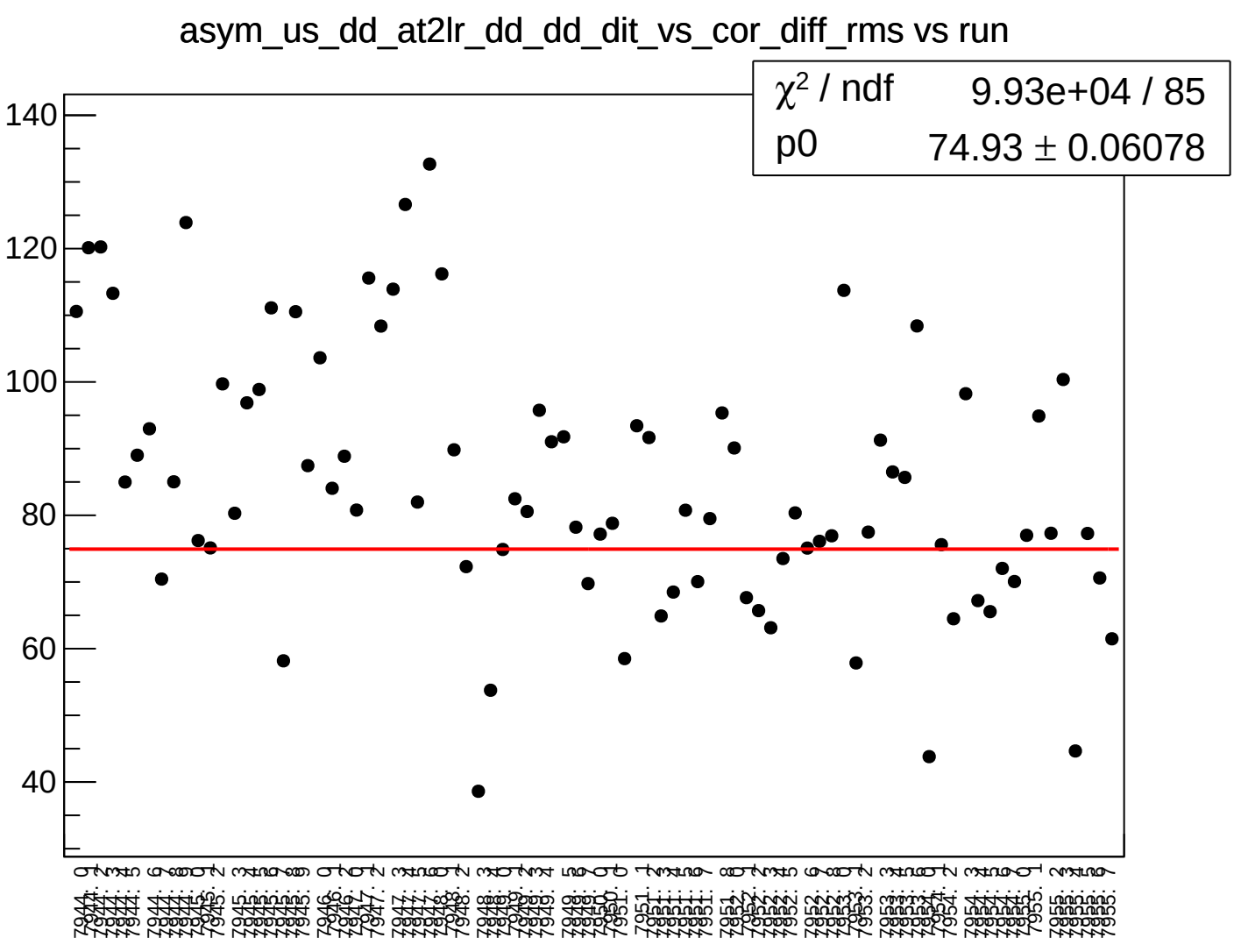

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 632.9 / 85
p0 2217 ± 1.742
2350
2300
2250
2200
2150
2100

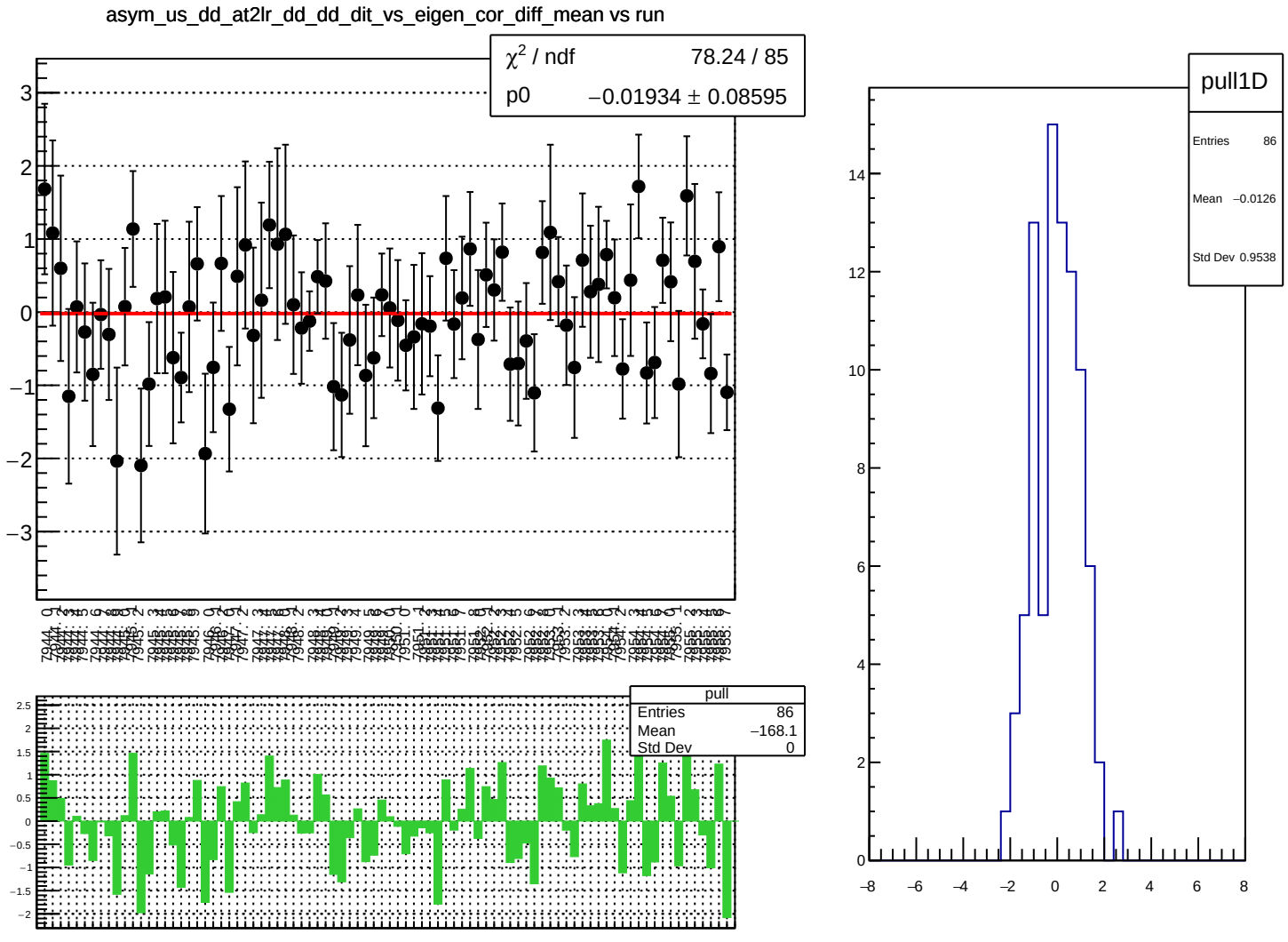

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.84 / 85
p0 −1.312e−13 ± 3.1e−13
pull
Entries 86
Mean 41.56
Std Dev 24.07

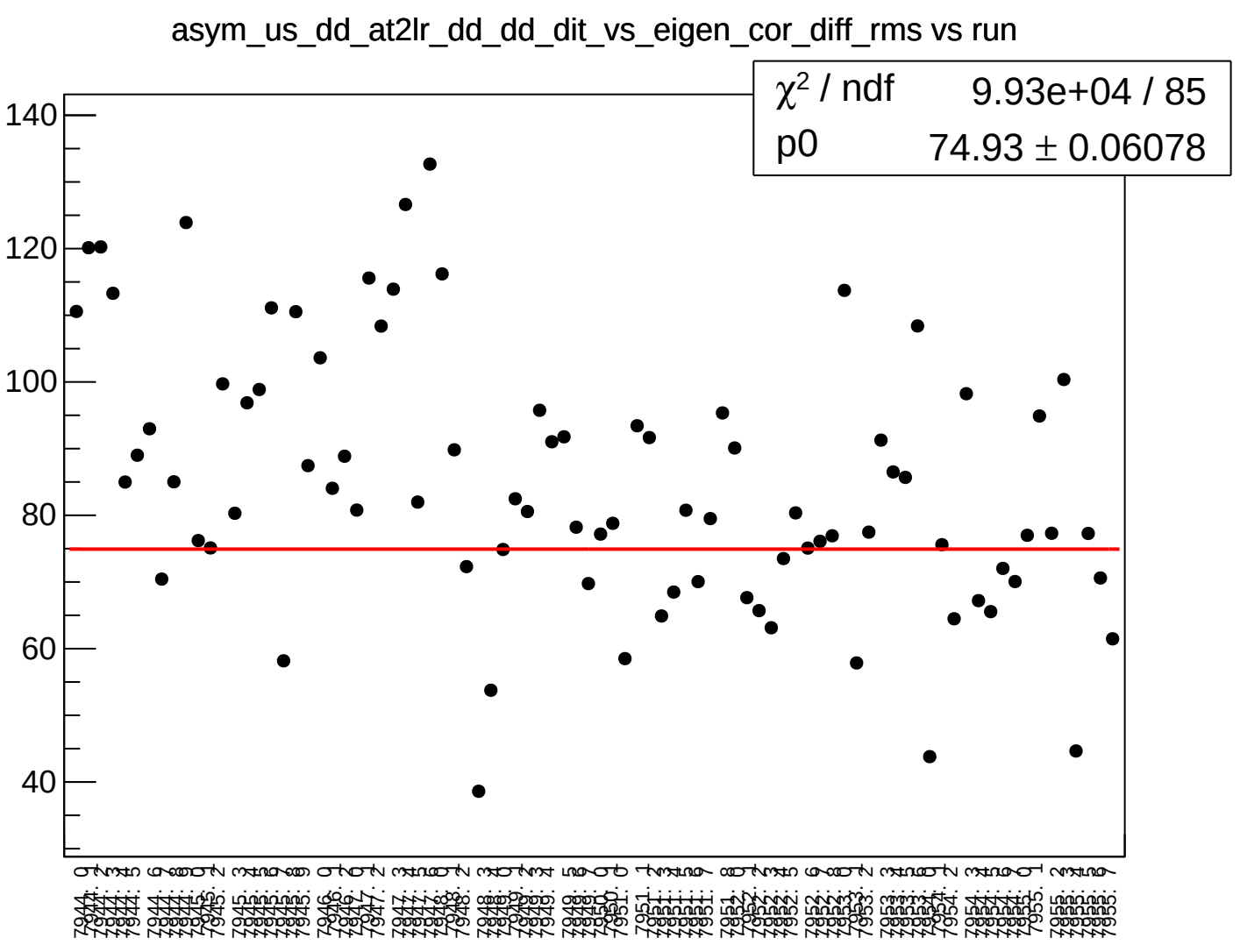

pull1D
Entries 86
Mean −0.1619
Std Dev 1.054

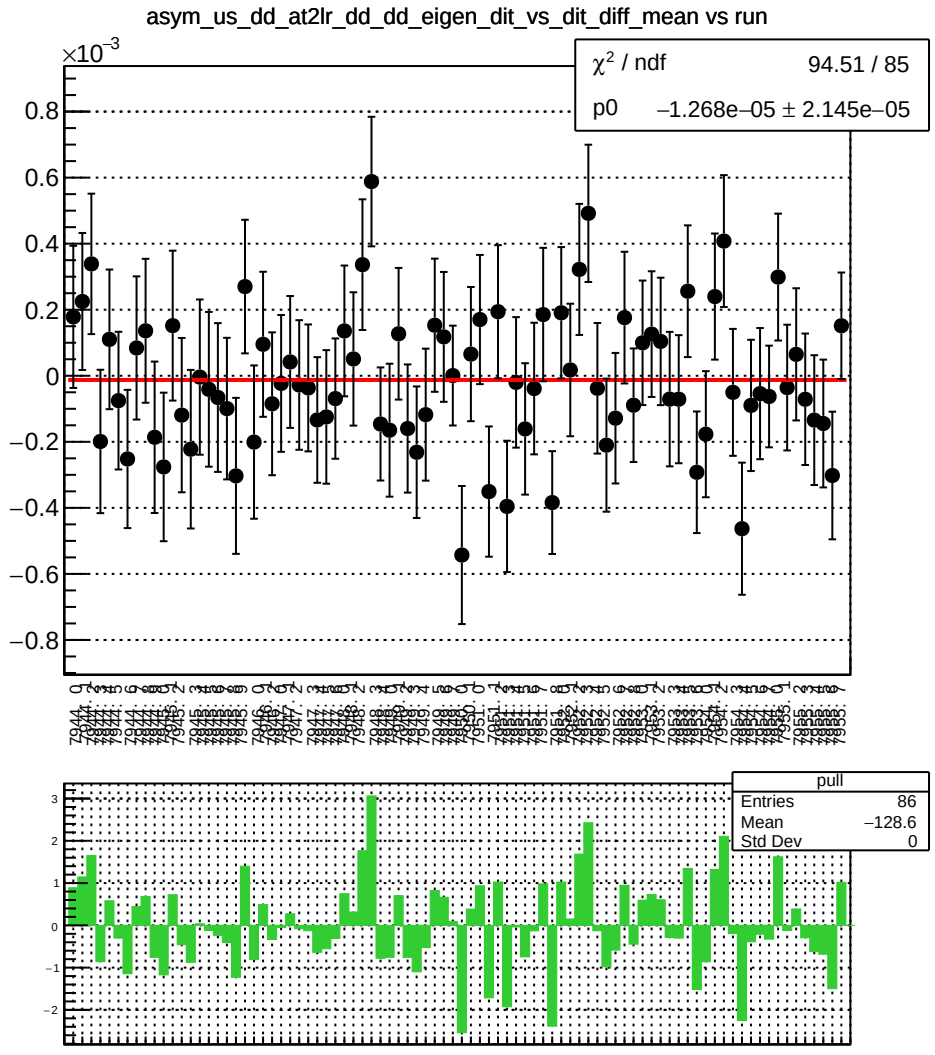

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.783e+05 / 85
p0 2.126e−10 ± 2.192e−13
1.2
1
0.8
0.6
0.4
0.2
0

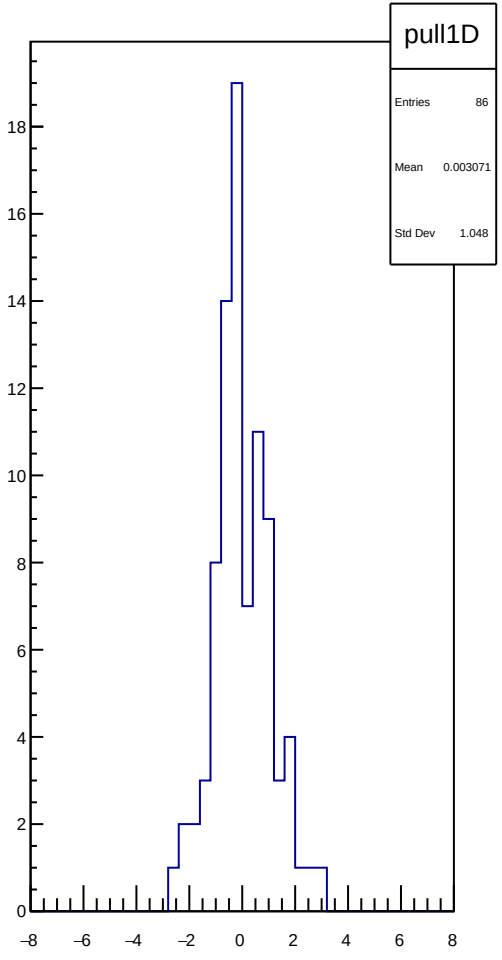

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.24 / 85
p0 −0.01934 ± 0.08595
pull
Entries 86
Mean −168.1
Std Dev 0
pull1D
Entries 86
Mean −0.0126
Std Dev 0.9538

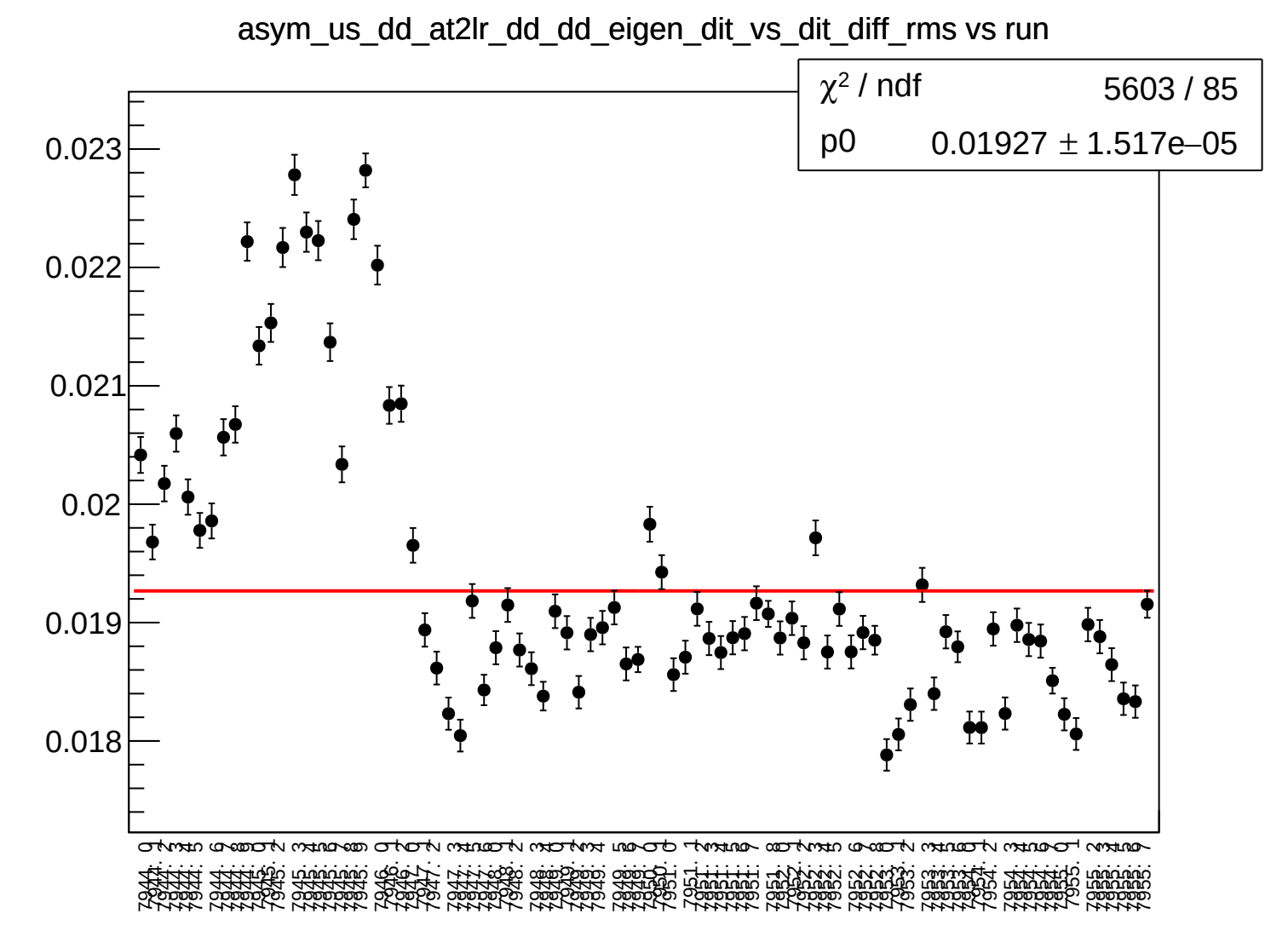

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.93e+04 / 85
p0 74.93 ± 0.06078
140
120
100
80
60
40

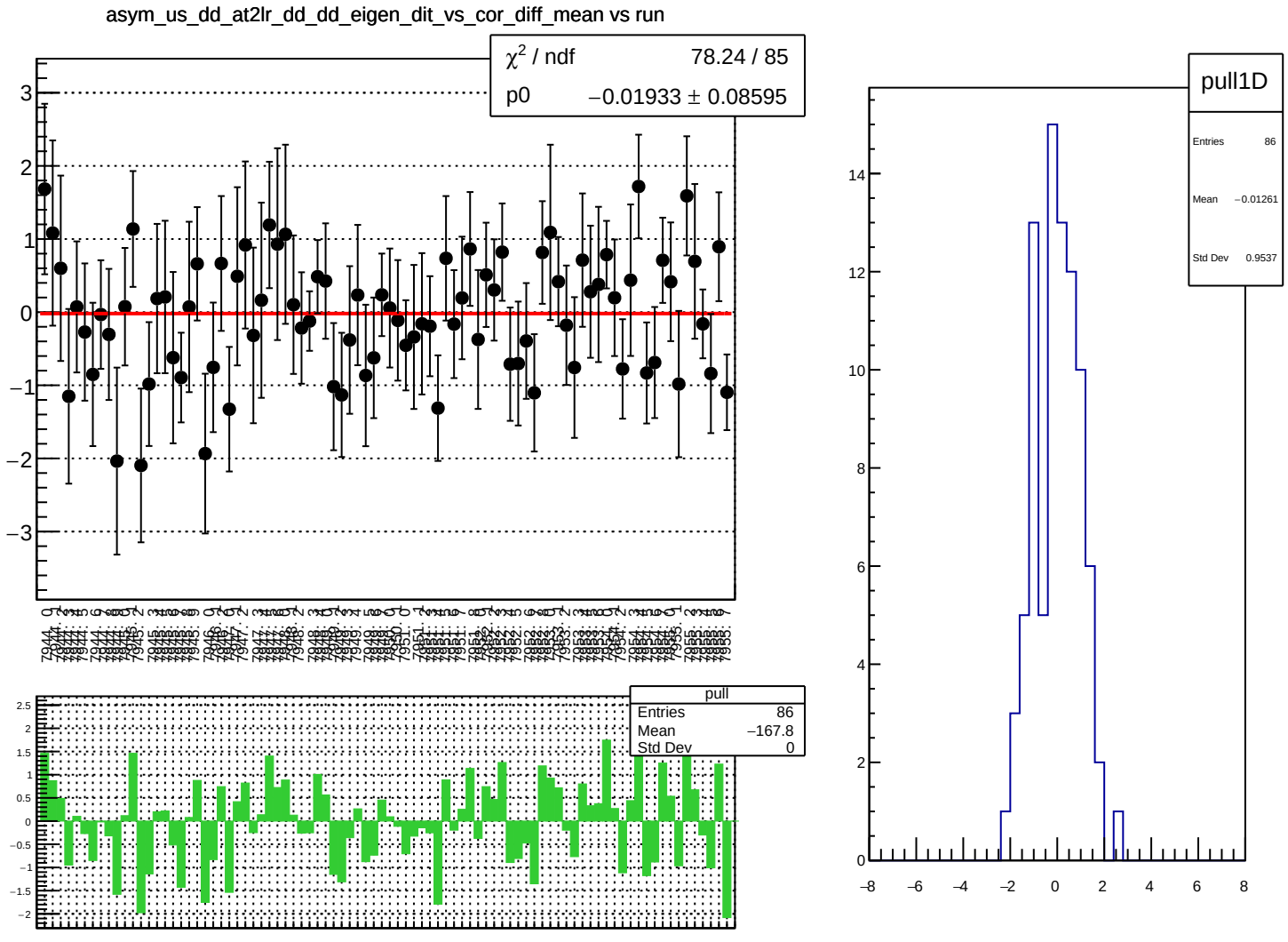

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.24 / 85
p0 −0.01934 ± 0.08595
pull
Entries 86
Mean −168.1
Std Dev 0
pull1D
Entries 86
Mean −0.0126
Std Dev 0.9538

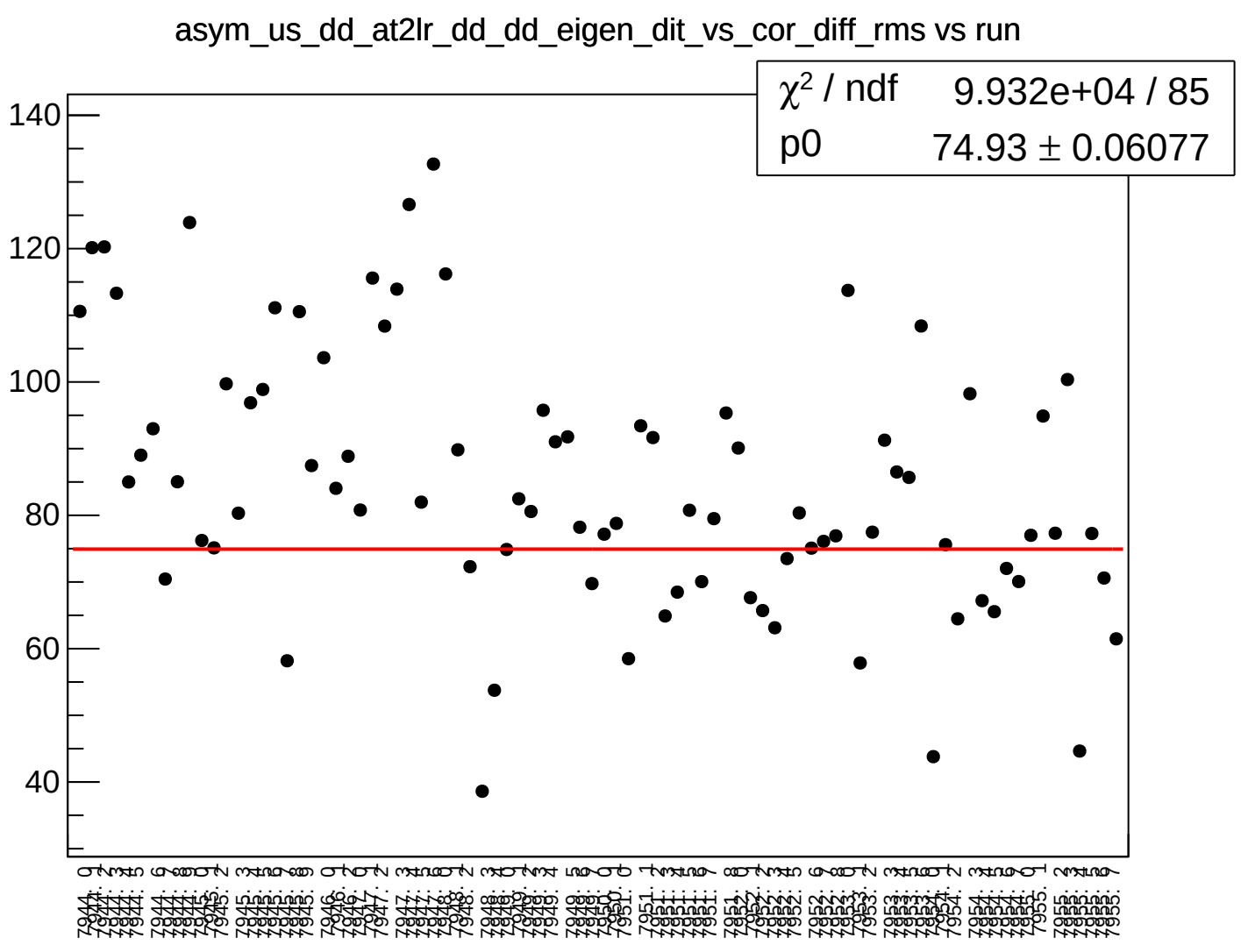

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.93e+04 / 85
p0 74.93 ± 0.06078
140
120
100
80
60
40

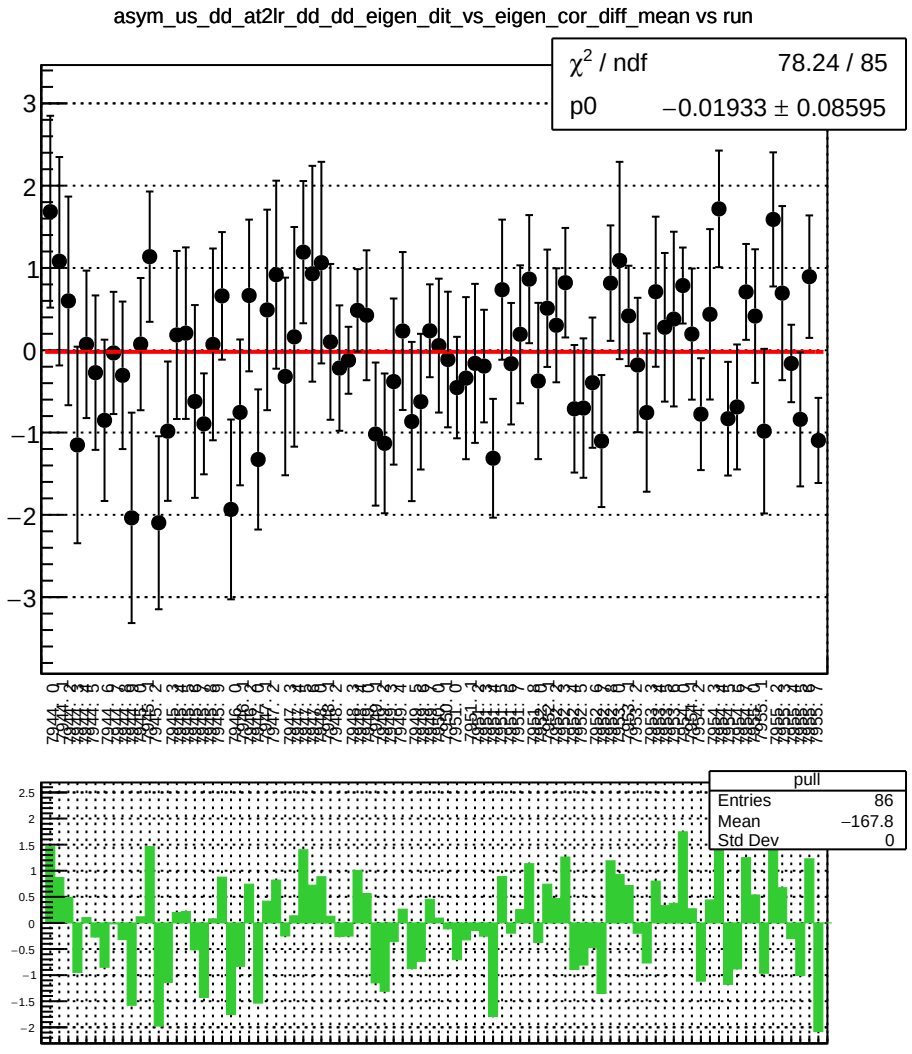

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.51 / 85
p0 −1.268e−05 ± 2.145e−05
pull
Entries 86
Mean −128.6
Std Dev 0

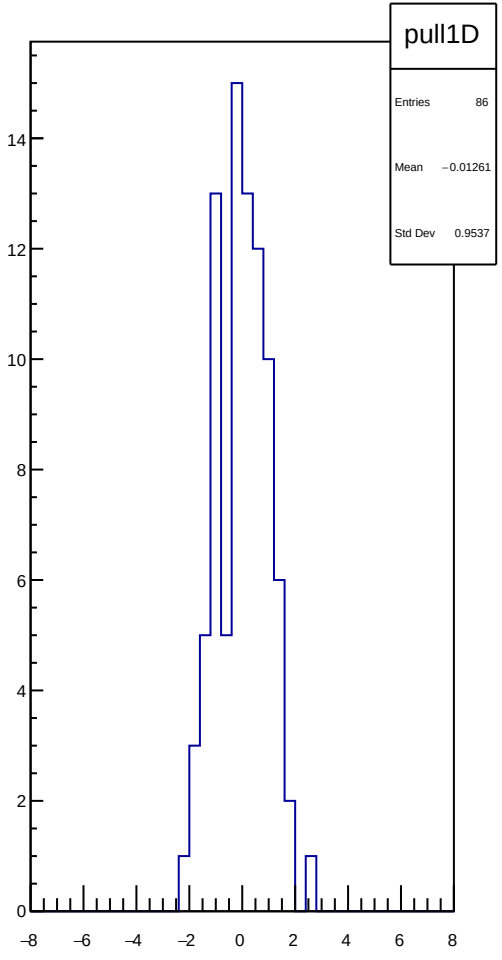

pull1D
Entries 86
Mean 0.003071
Std Dev 1.048

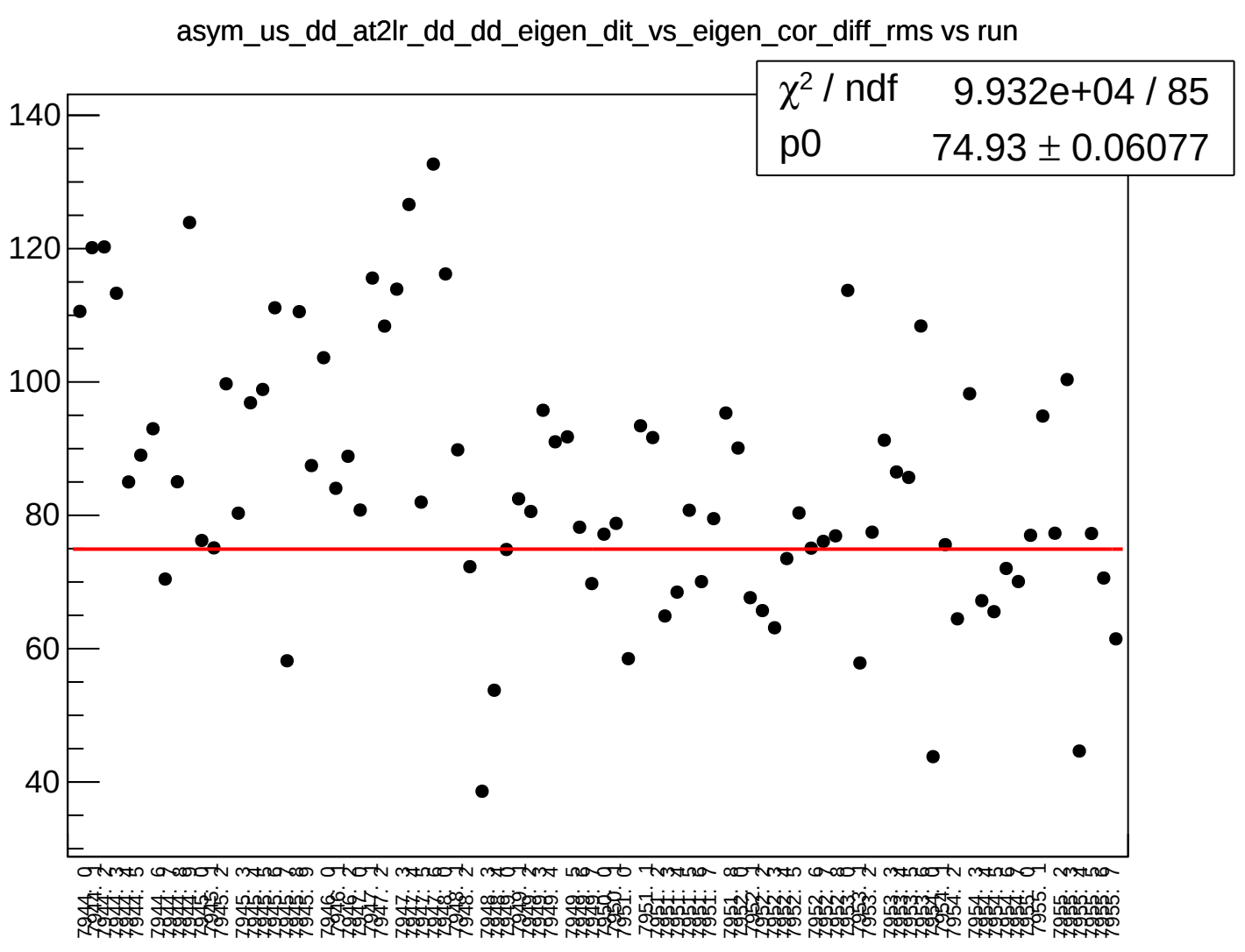

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5603 / 85
p0 0.01927 ± 1.517e−05
0.023
0.022
0.021
0.02
0.019
0.018

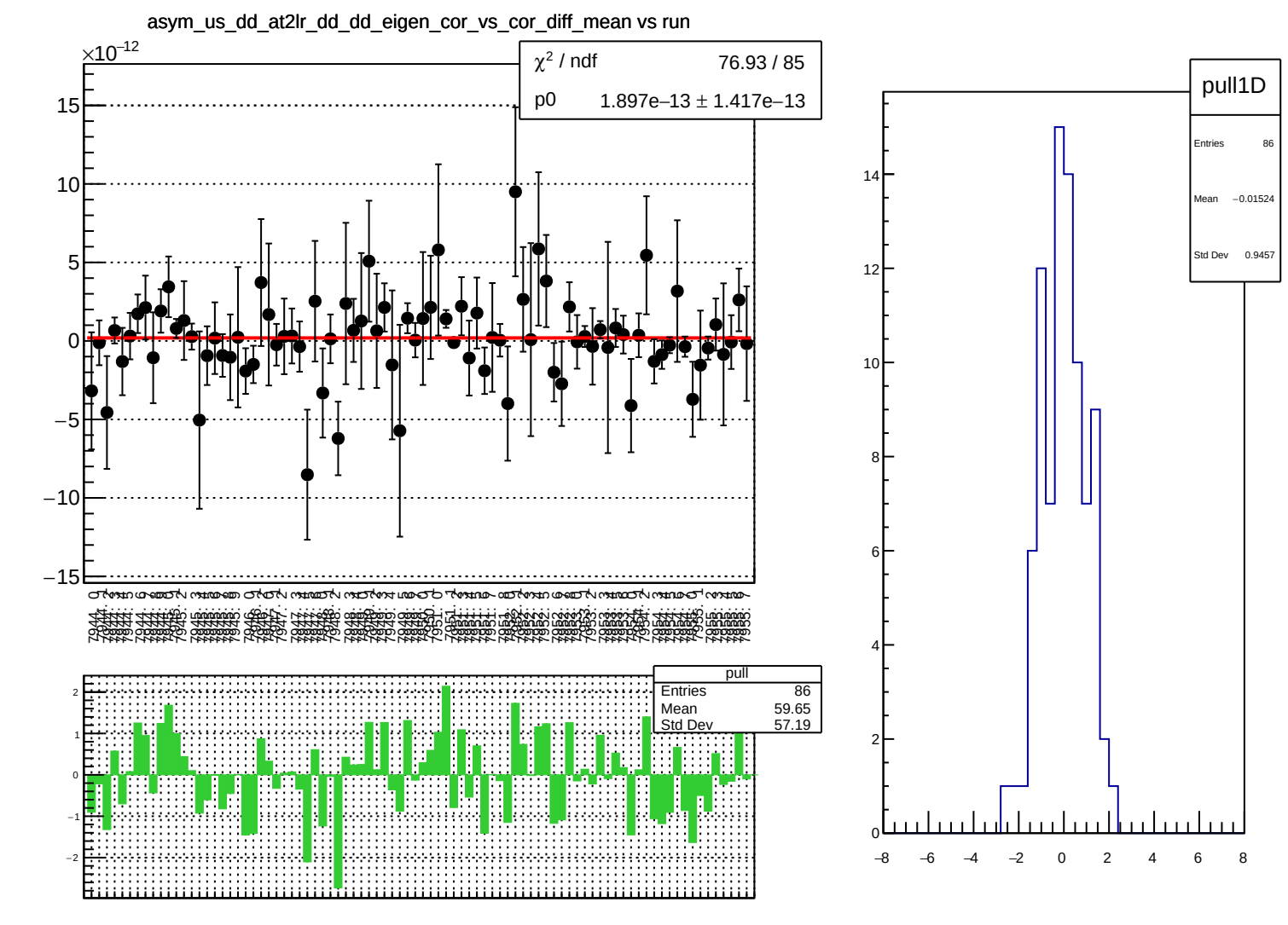

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.24 / 85
p0 −0.01933 ± 0.08595
pull
Entries 86
Mean −167.8
Std Dev 0
pull1D
Entries 86
Mean −0.01261
Std Dev 0.9537

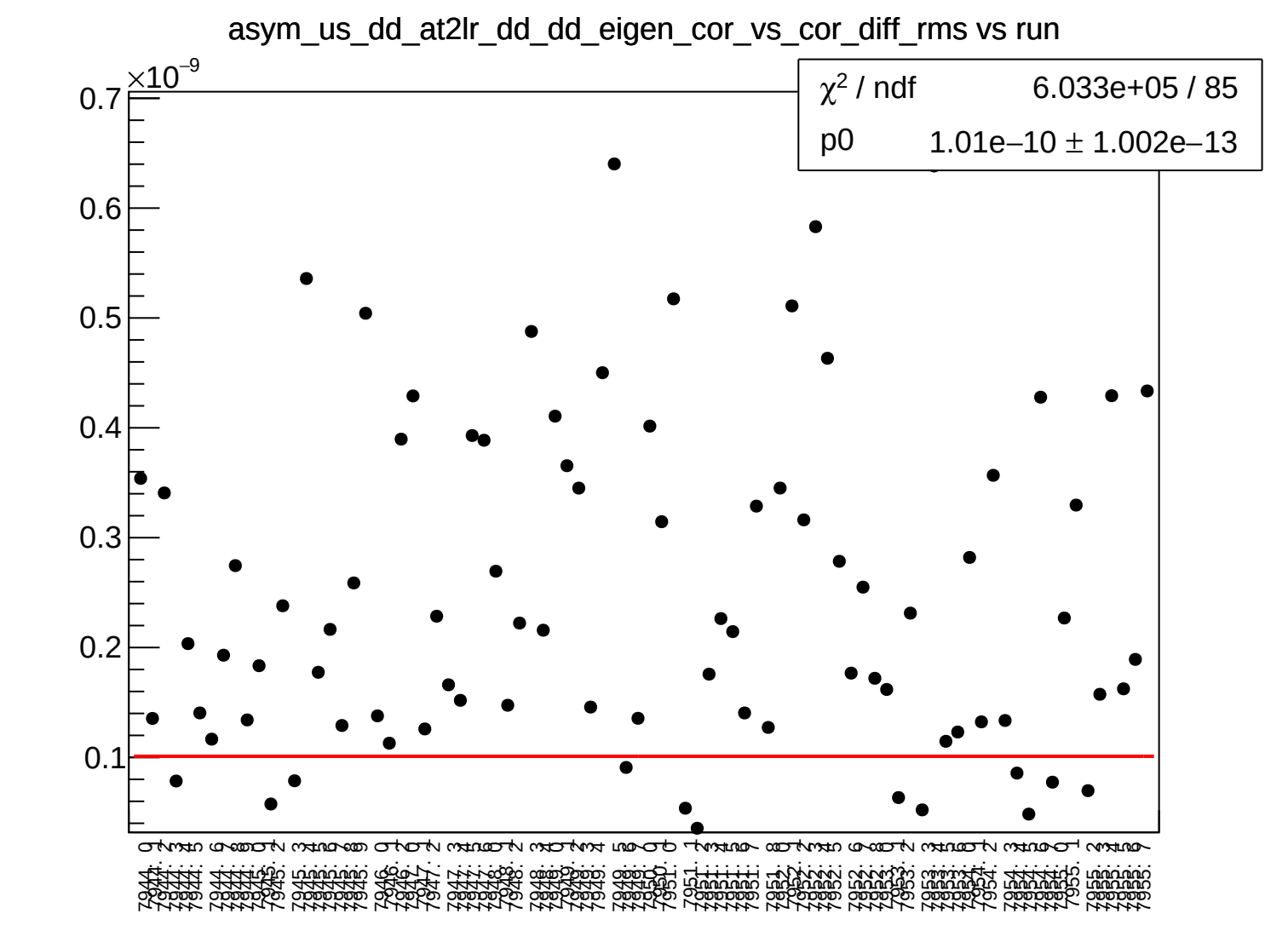

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.932e+04 / 85
p0 74.93 ± 0.06077
140
120
100
80
60
40

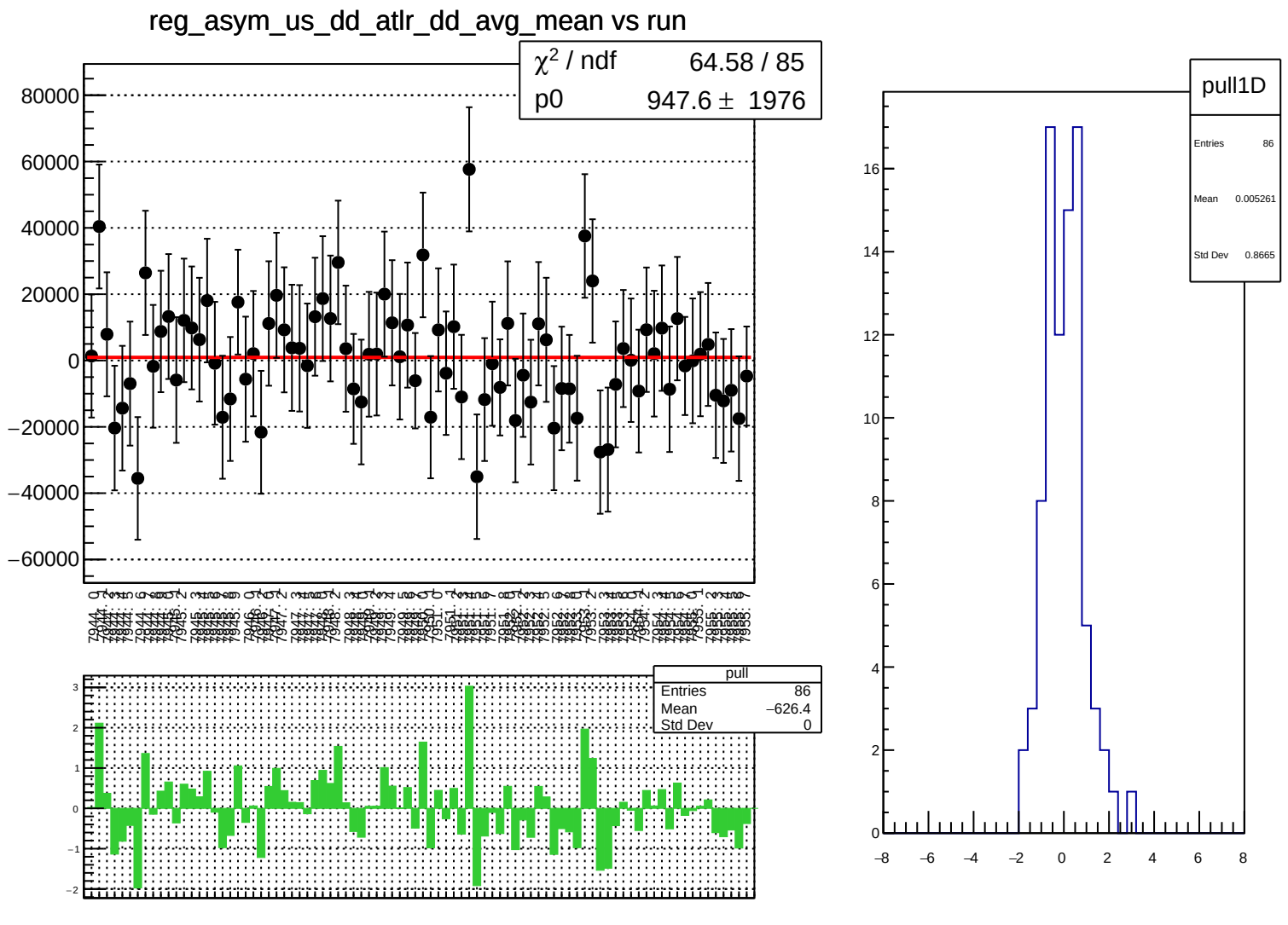

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.24 / 85
p0 −0.01933 ± 0.08595
pull
Entries 86
Mean −167.8
Std Dev 0

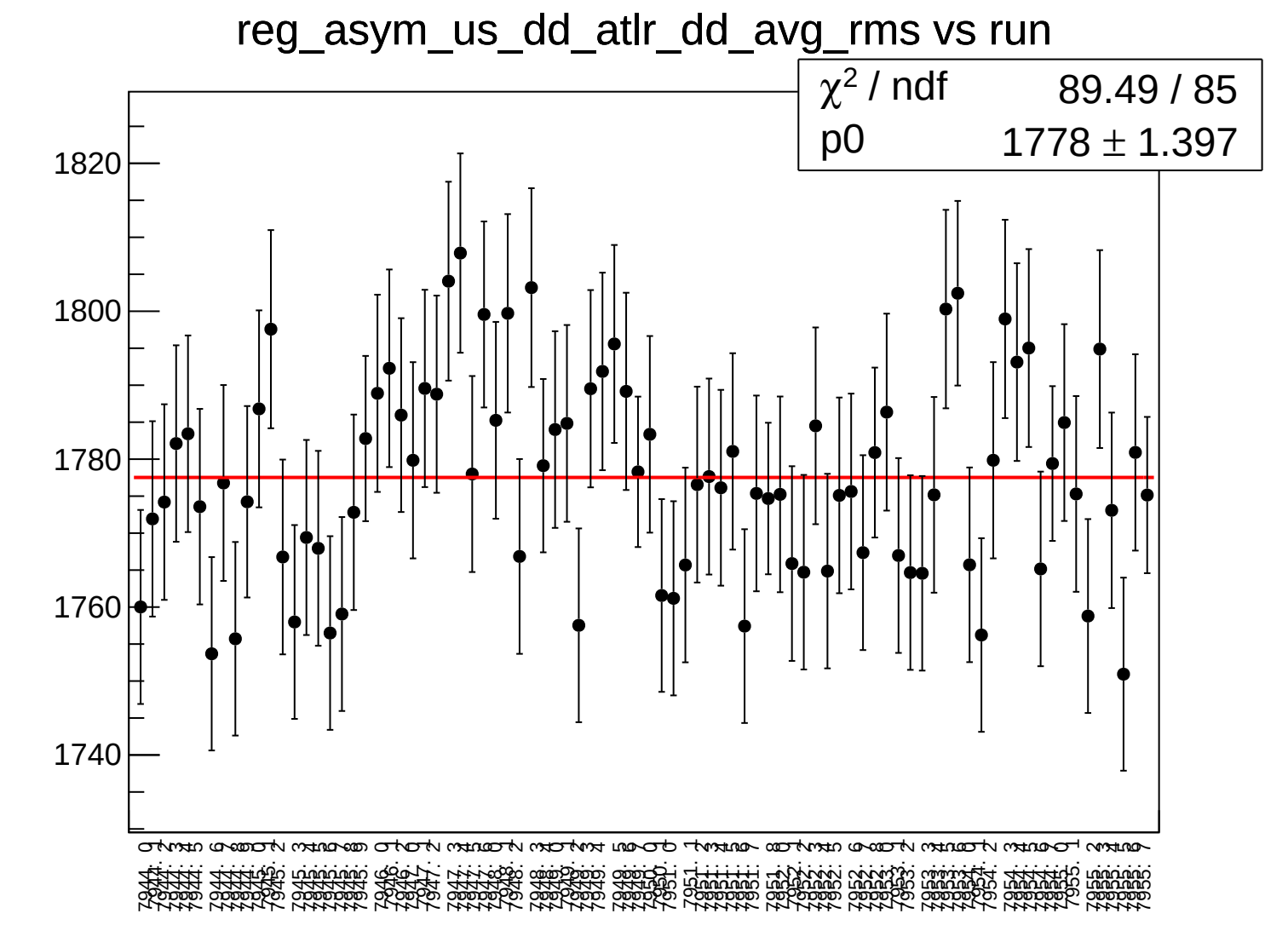

pull1D
Entries 86
Mean −0.01261
Std Dev 0.9537

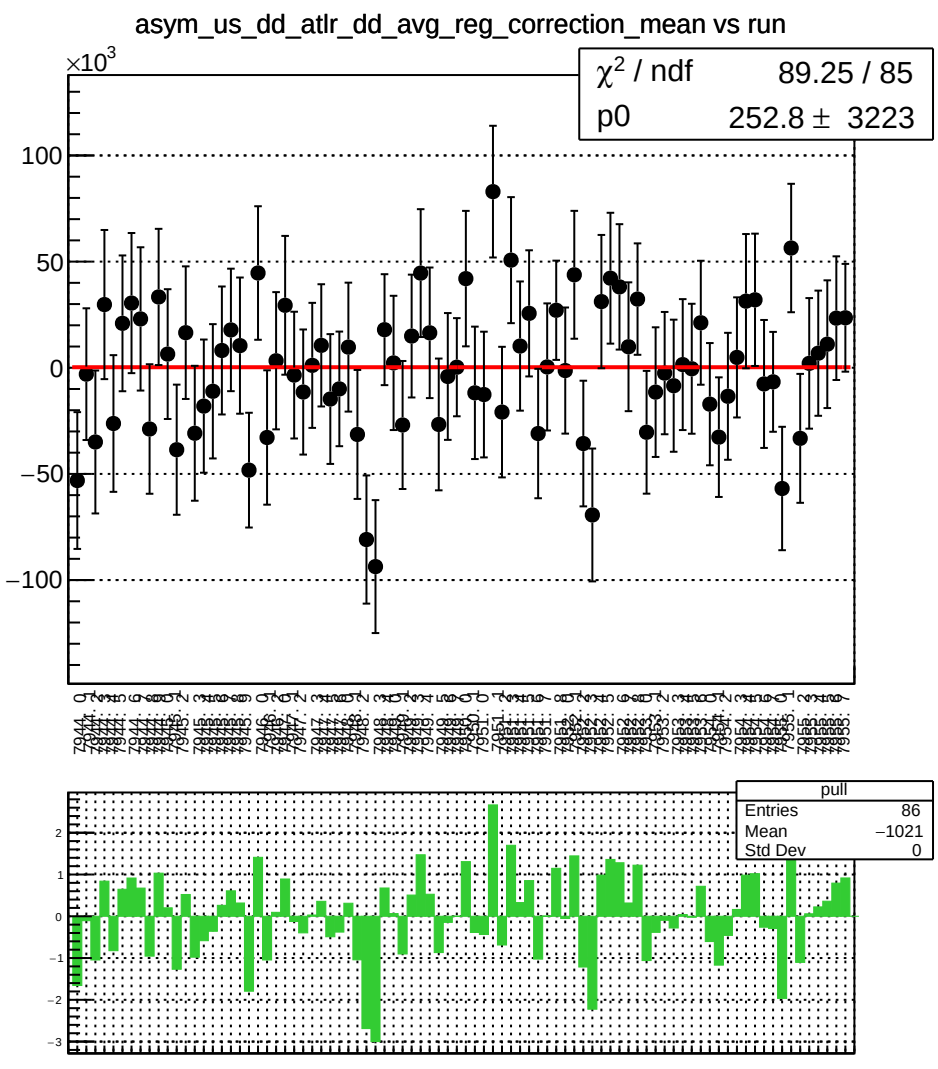

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.932e+04 / 85
p0 74.93 ± 0.06077
140
120
100
80
60
40

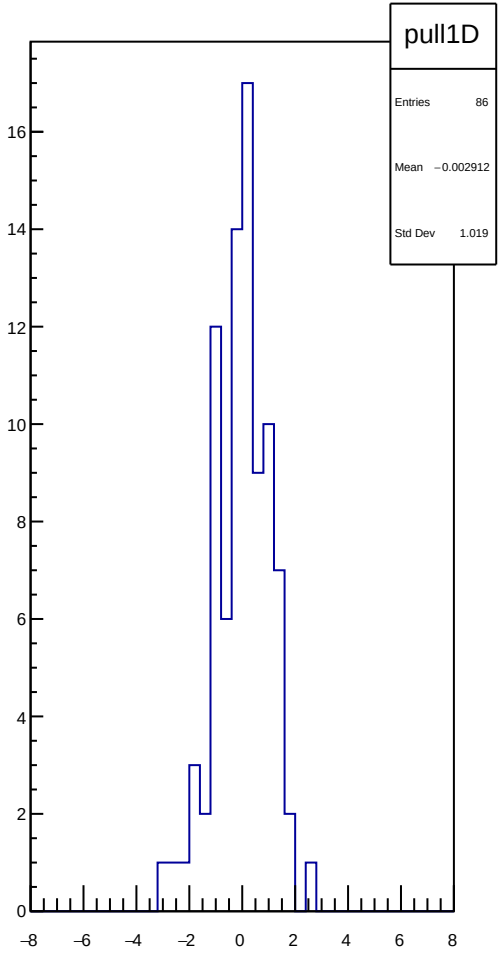

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.93 / 85
p0 1.897e−13 ± 1.417e−13
pull
Entries 86
Mean 59.65
Std Dev 57.19
pull1D
Entries 86
Mean −0.01524
Std Dev 0.9457

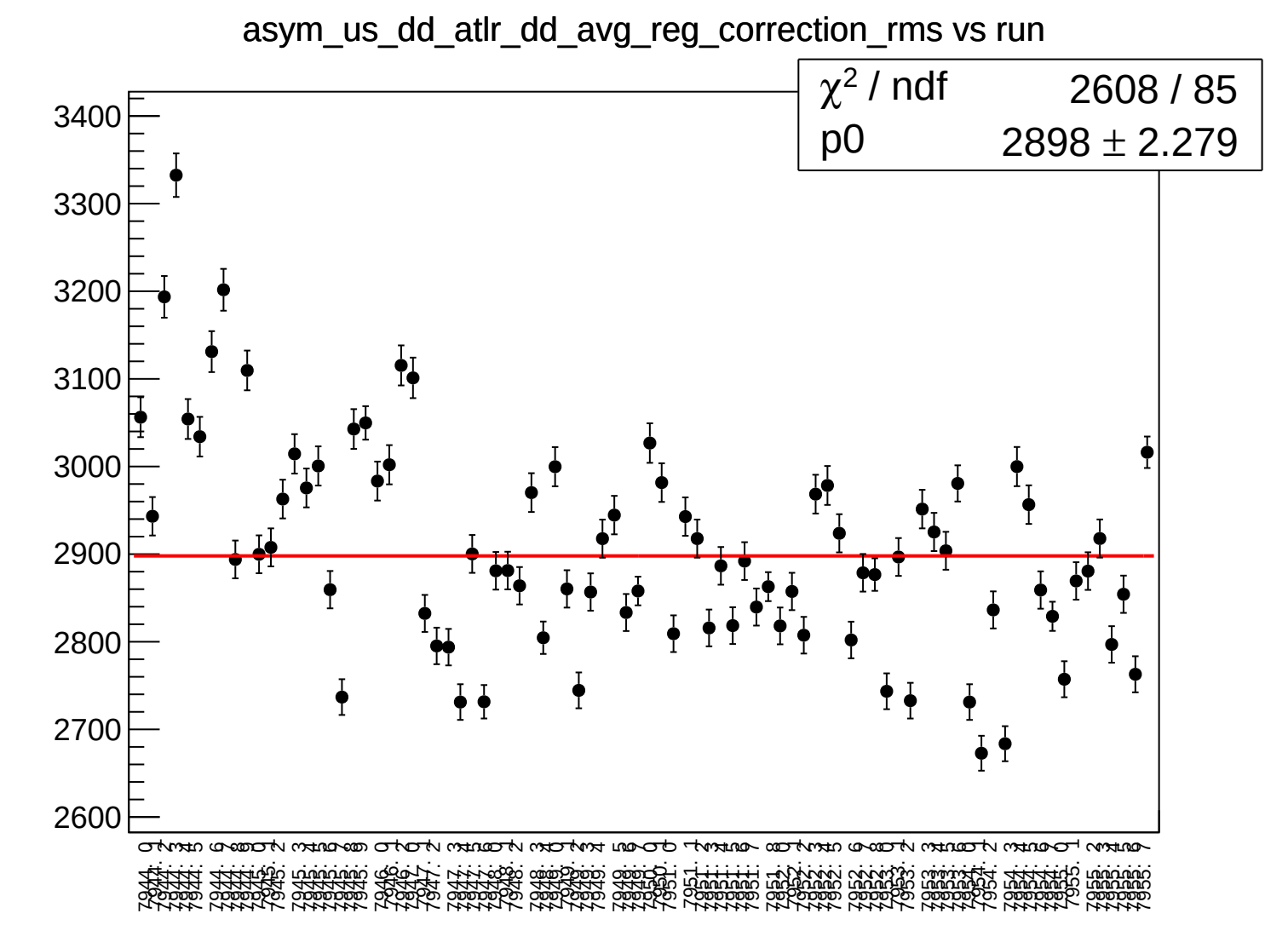

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.033e+05 / 85
p0 1.01e−10 ± 1.002e−13

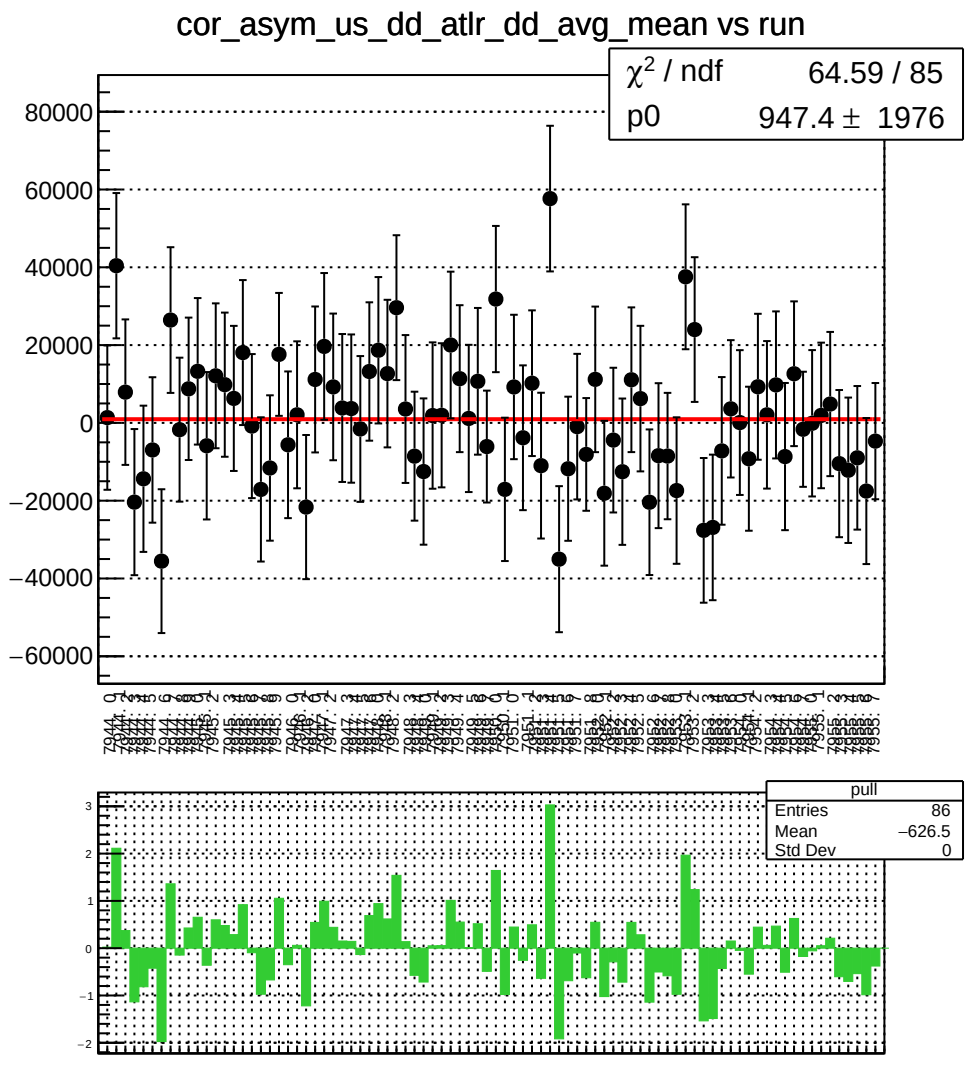

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 64.58 / 85
p0 947.6 ± 1976
pull
Entries 86
Mean −626.4
Std Dev 0
pull1D
Entries 86
Mean 0.005261
Std Dev 0.8665

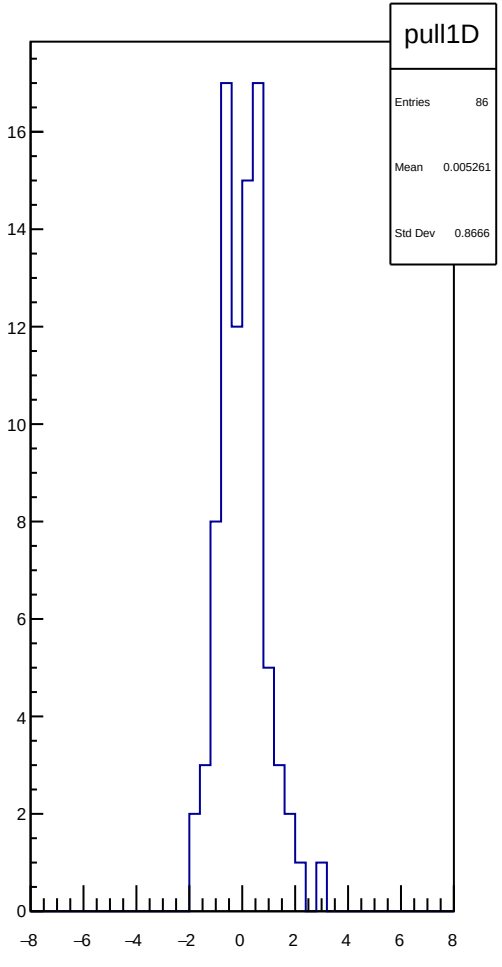

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 89.49 / 85
p0 1778 ± 1.397
1820
1800
1780
1760
1740

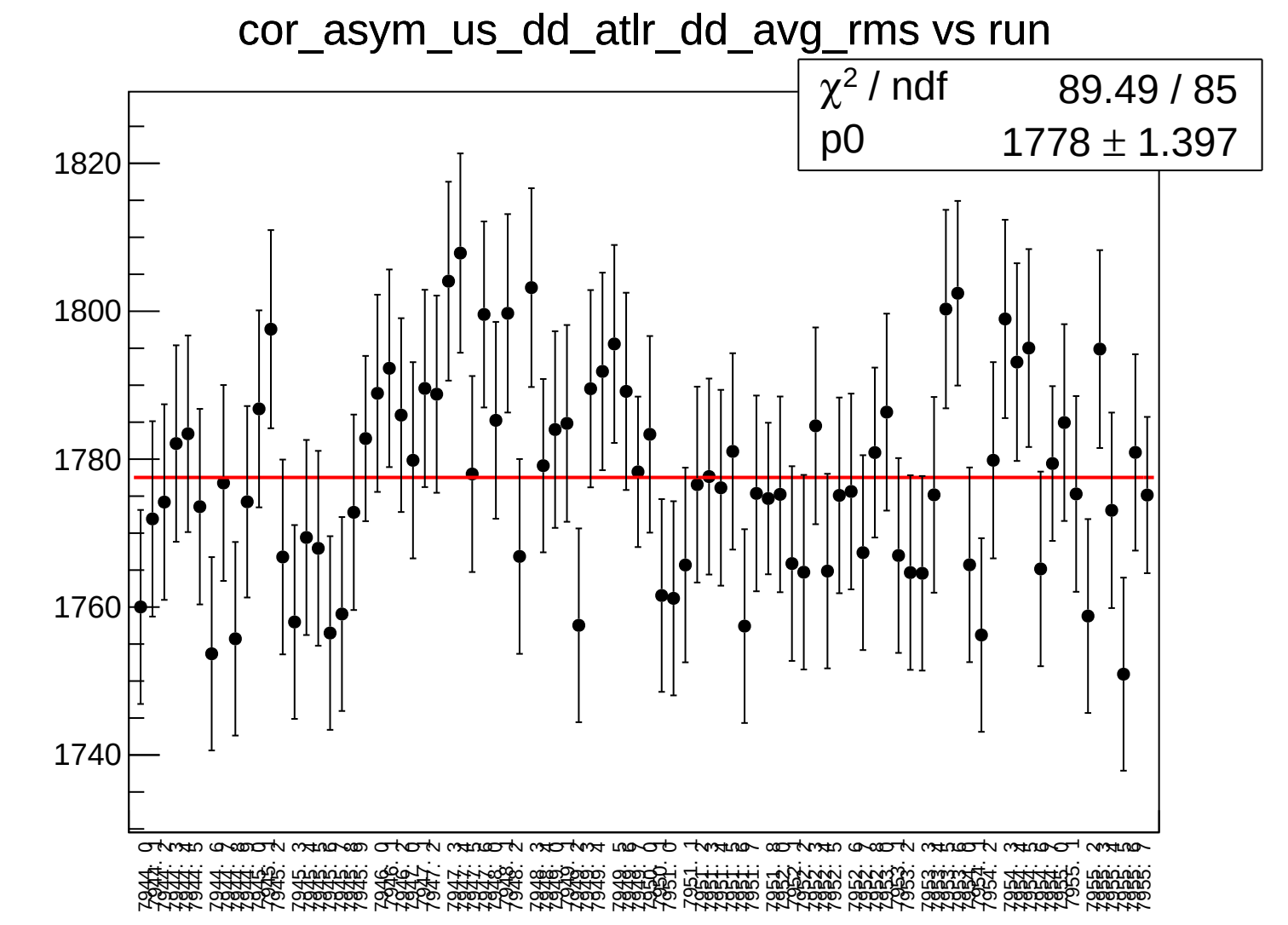

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 89.25 / 85
p0 252.8 ± 3223
100
50
0
−50
−100
pull
Entries 86
Mean −1021
Std Dev 0
2
1
0
−1
−2
−3

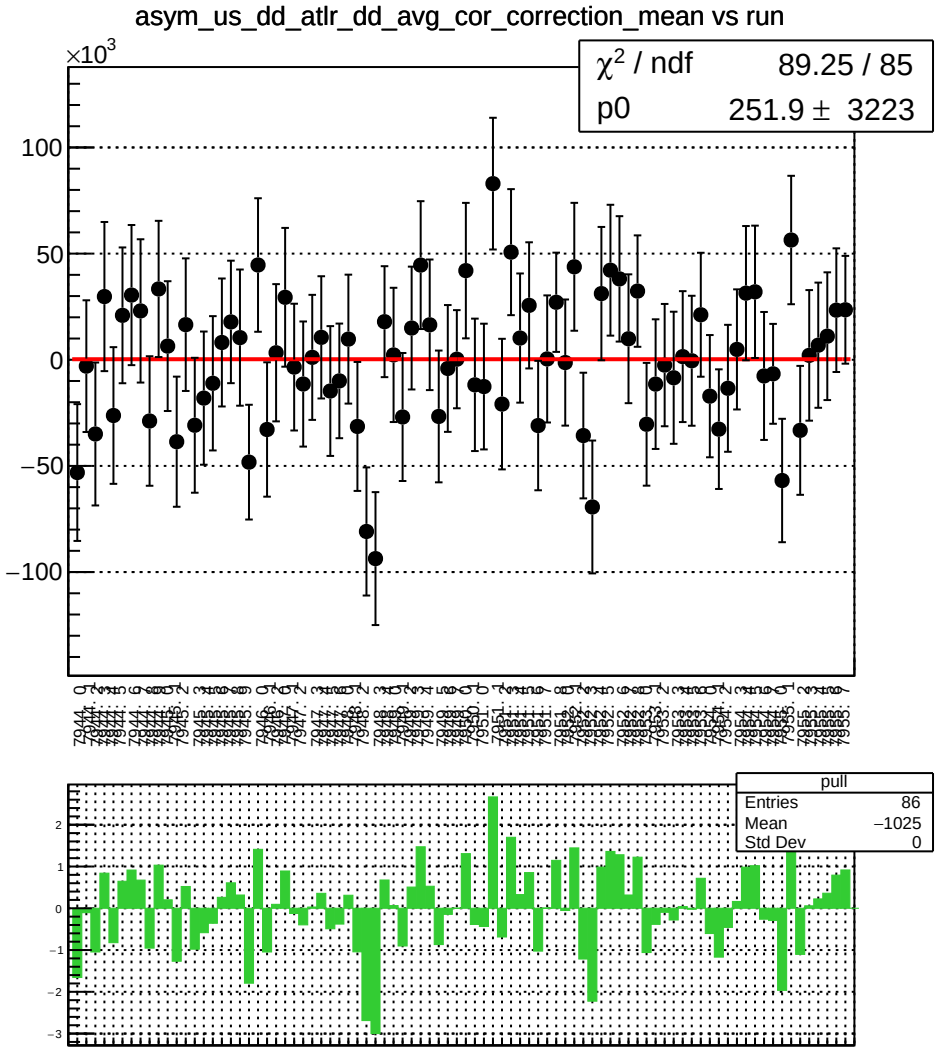

pull1D
Entries 86
Mean −0.002912
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

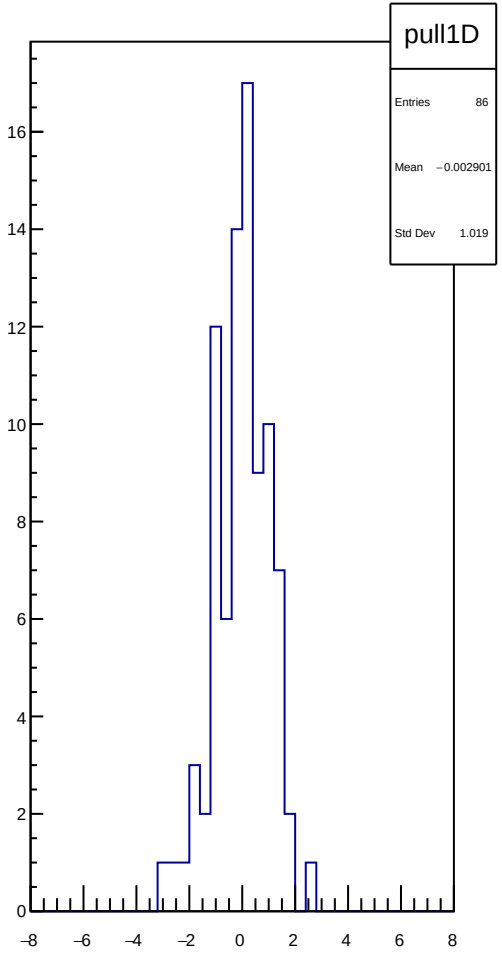

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 2608 / 85
p0 2898 ± 2.279
3400
3300
3200
3100
3000
2900
2800
2700
2600

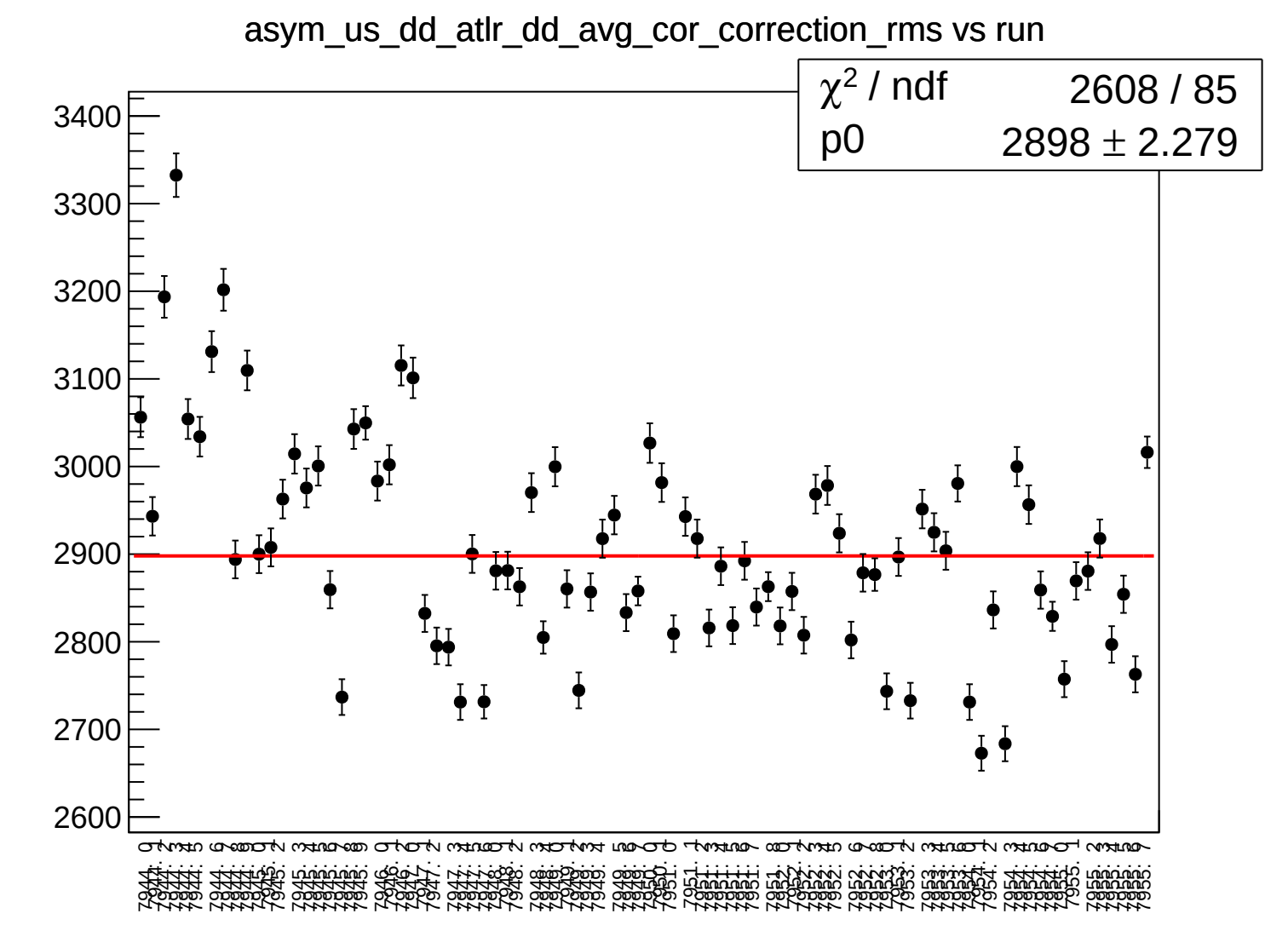

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 64.59 / 85
p0 947.4 ± 1976
pull
Entries 86
Mean −626.5
Std Dev 0

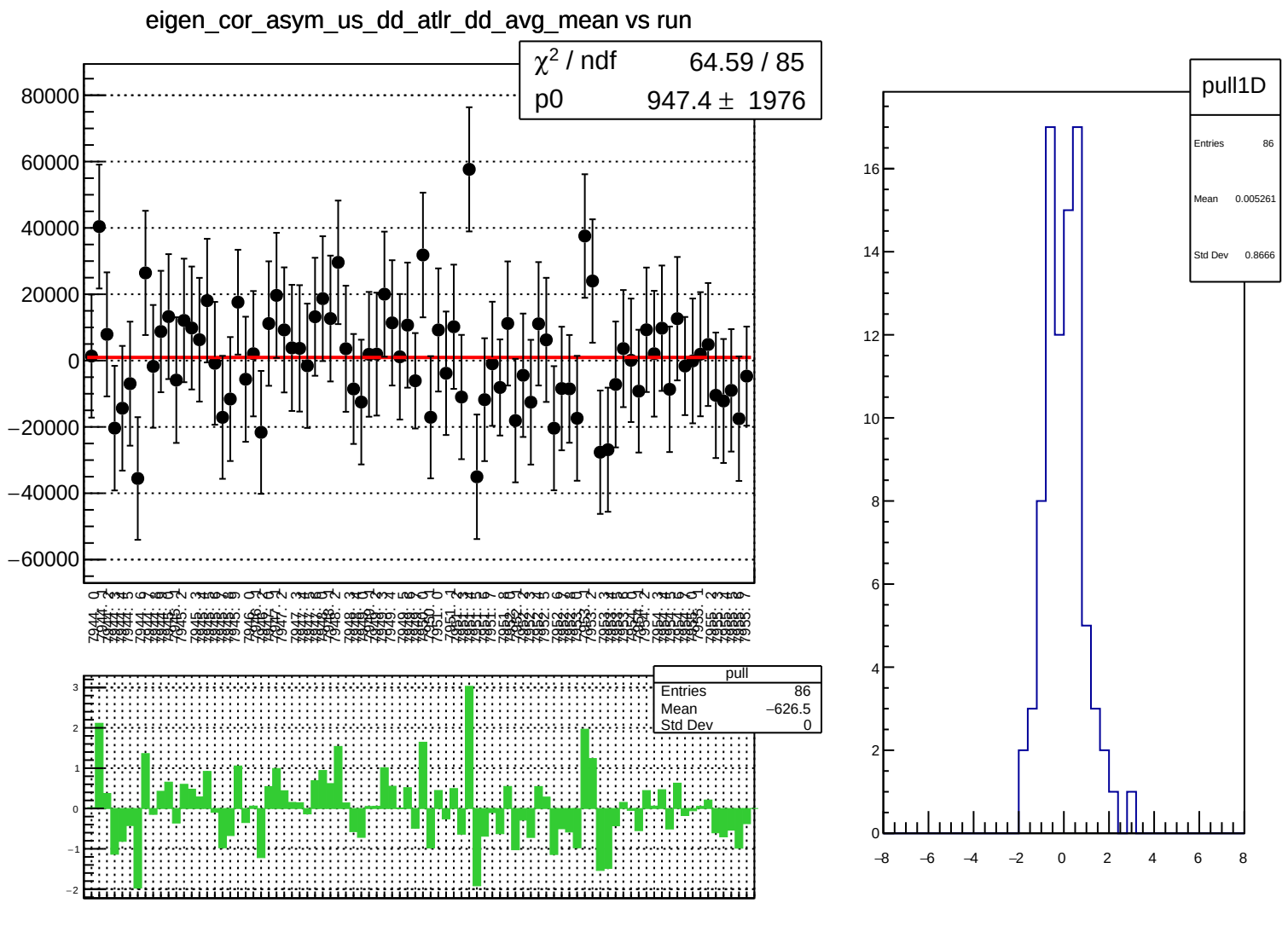

pull1D
Entries 86
Mean 0.005261
Std Dev 0.8666

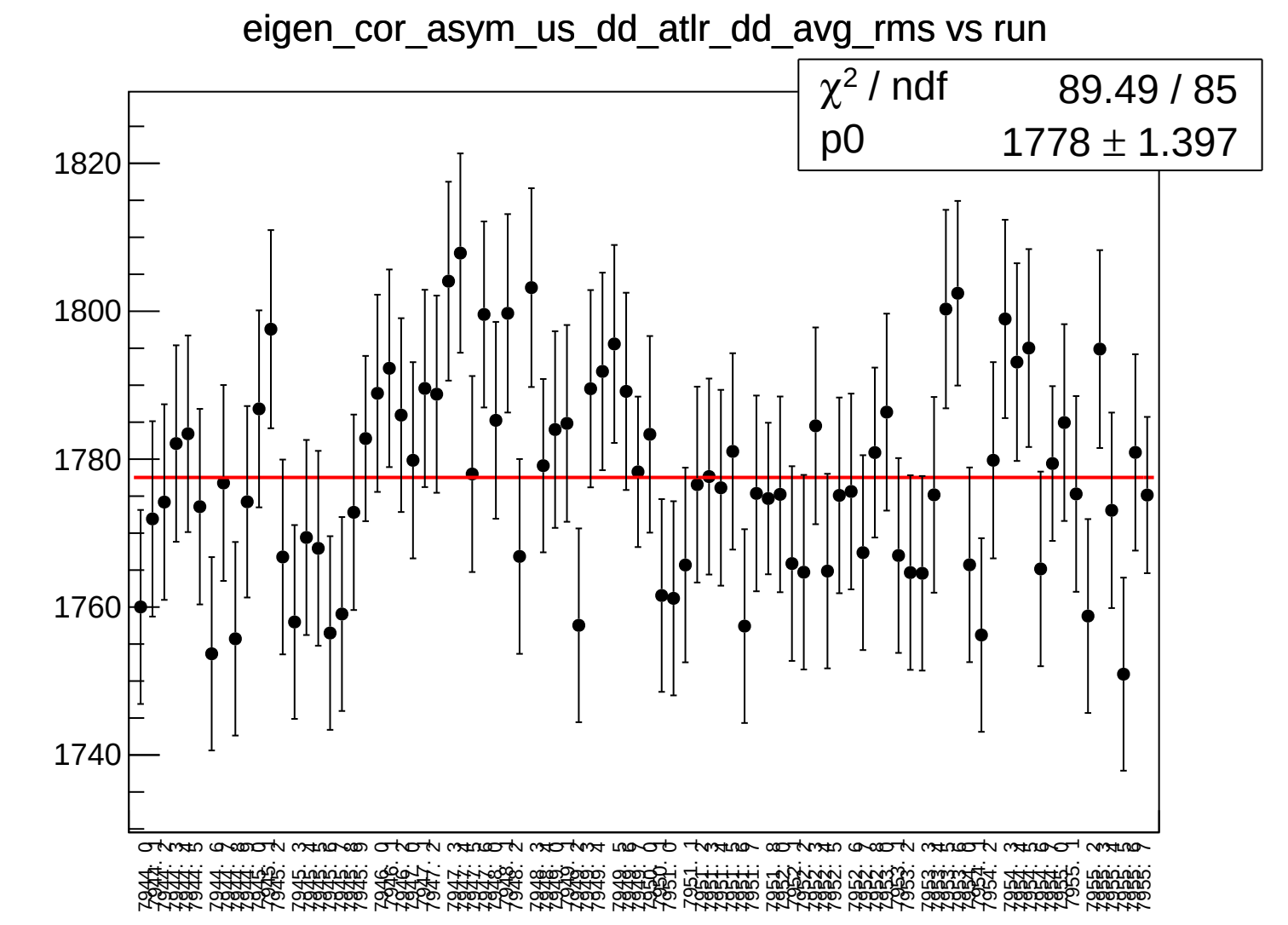

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 89.49 / 85
p0 1778 ± 1.397
1820
1800
1780
1760
1740

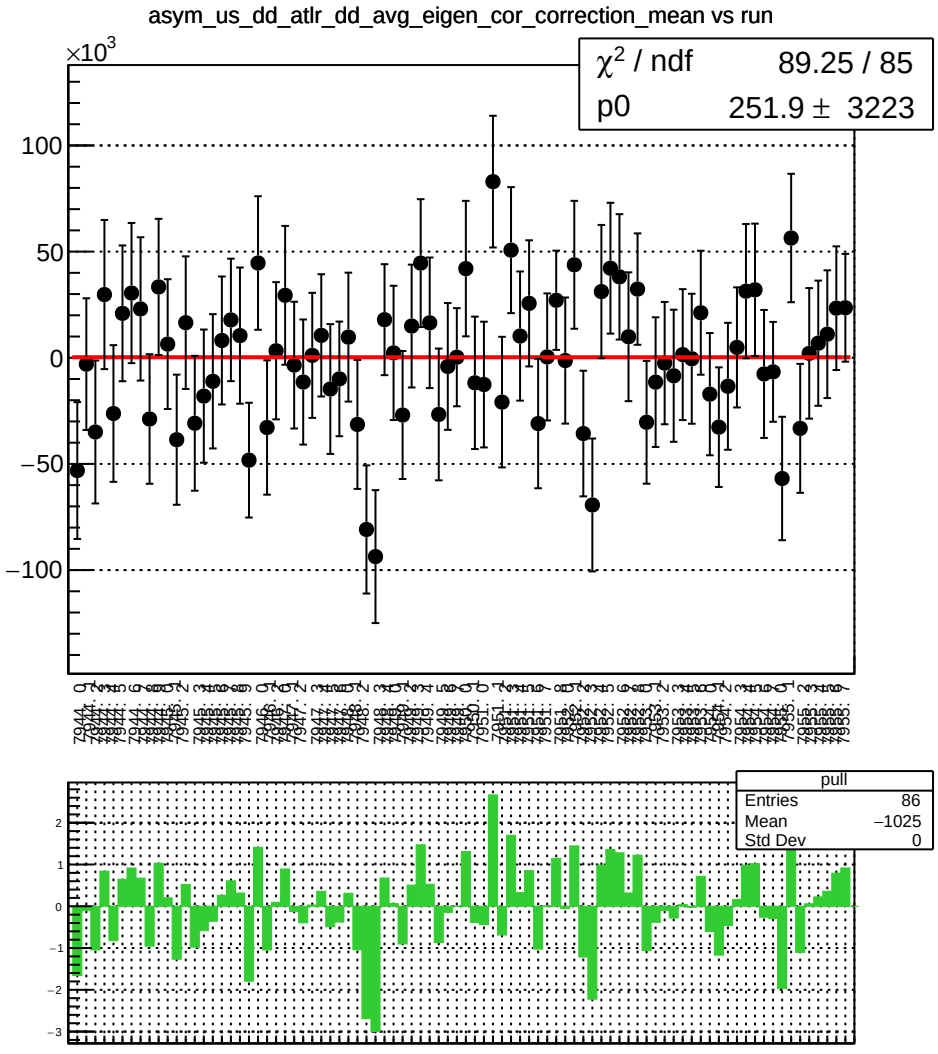

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.25 / 85
p0 251.9 ± 3223
100
50
0
−50
−100
pull
Entries 86
Mean −1025
Std Dev 0
2
1
0
−1
−2
−3

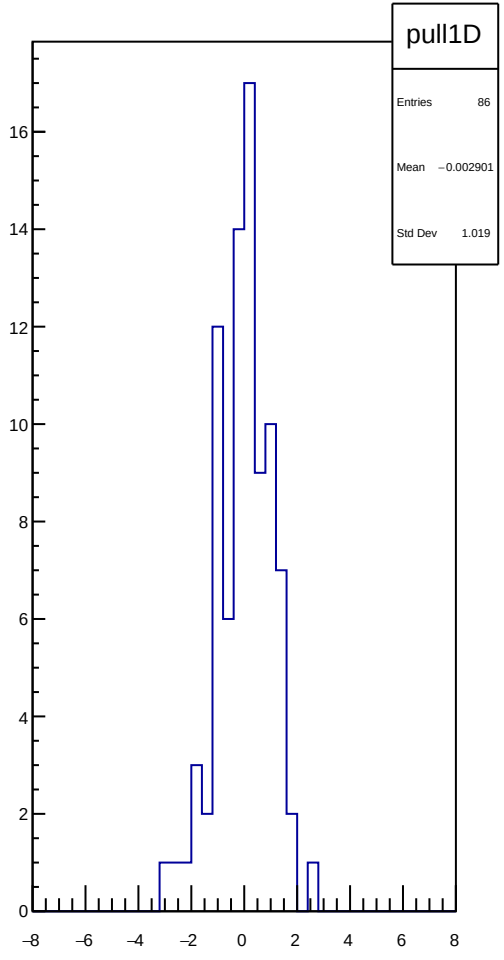

pull1D
Entries 86
Mean −0.002901
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

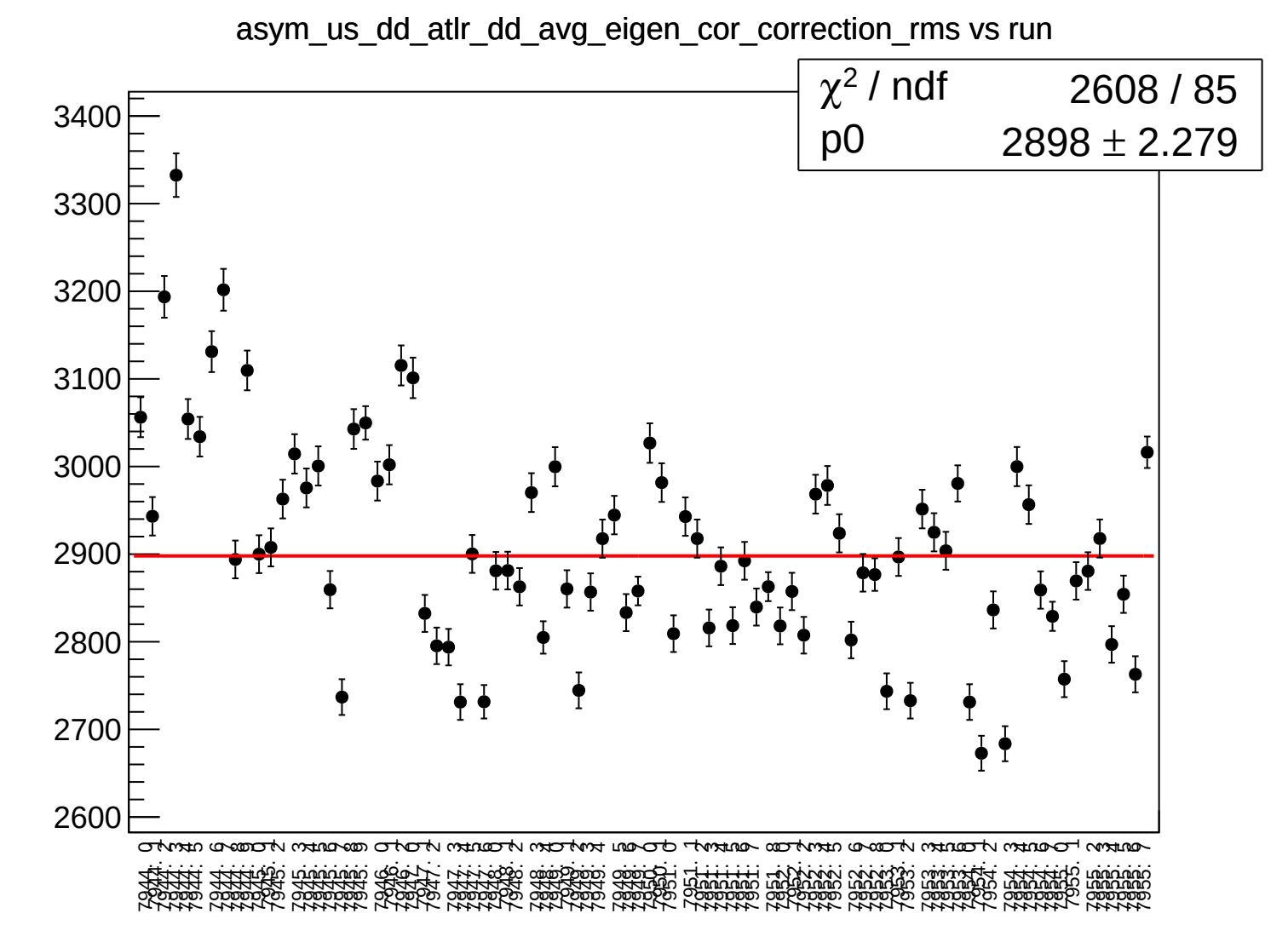

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 2608 / 85
p0 2898 ± 2.279
3400
3300
3200
3100
3000
2900
2800
2700
2600

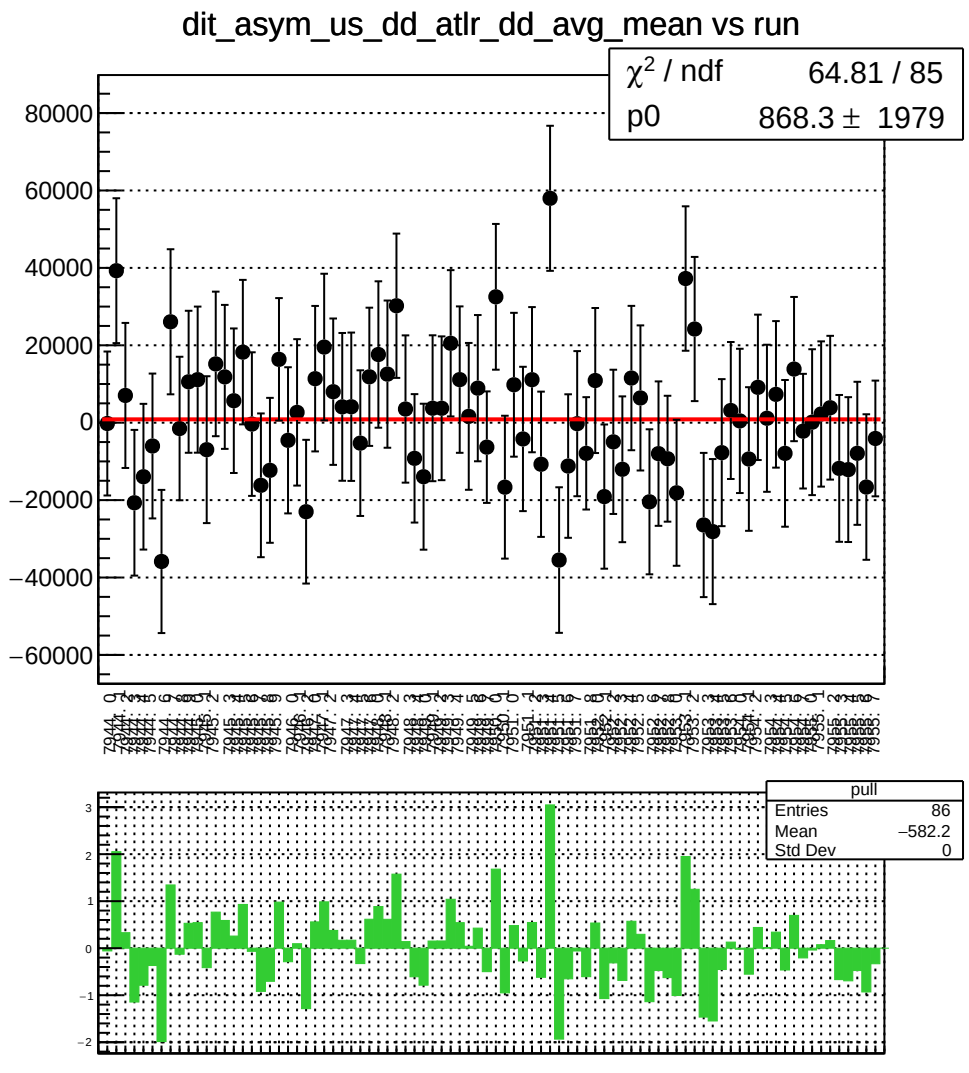

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 64.59 / 85
p0 947.4 ± 1976
pull
Entries 86
Mean −626.5
Std Dev 0
pull1D
Entries 86
Mean 0.005261
Std Dev 0.8666

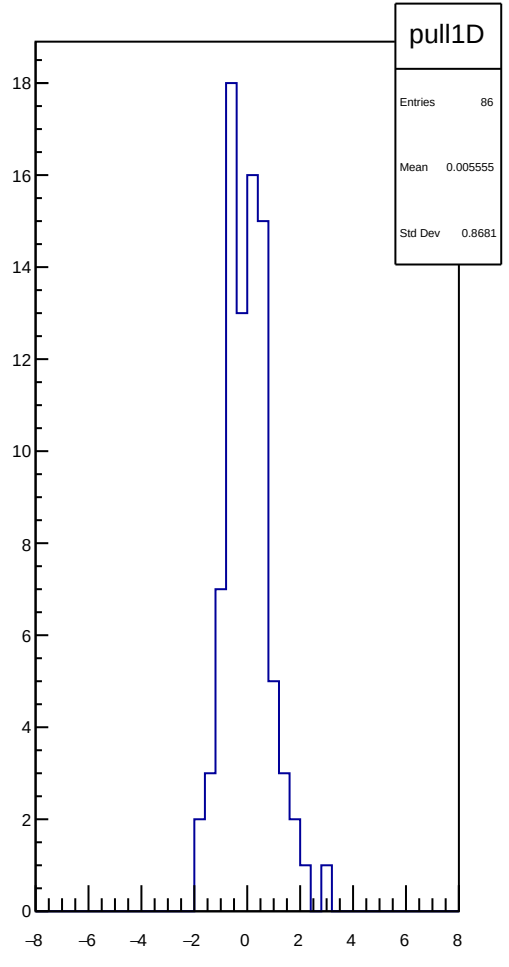

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 89.49 / 85
p0 1778 ± 1.397
1820
1800
1780
1760
1740

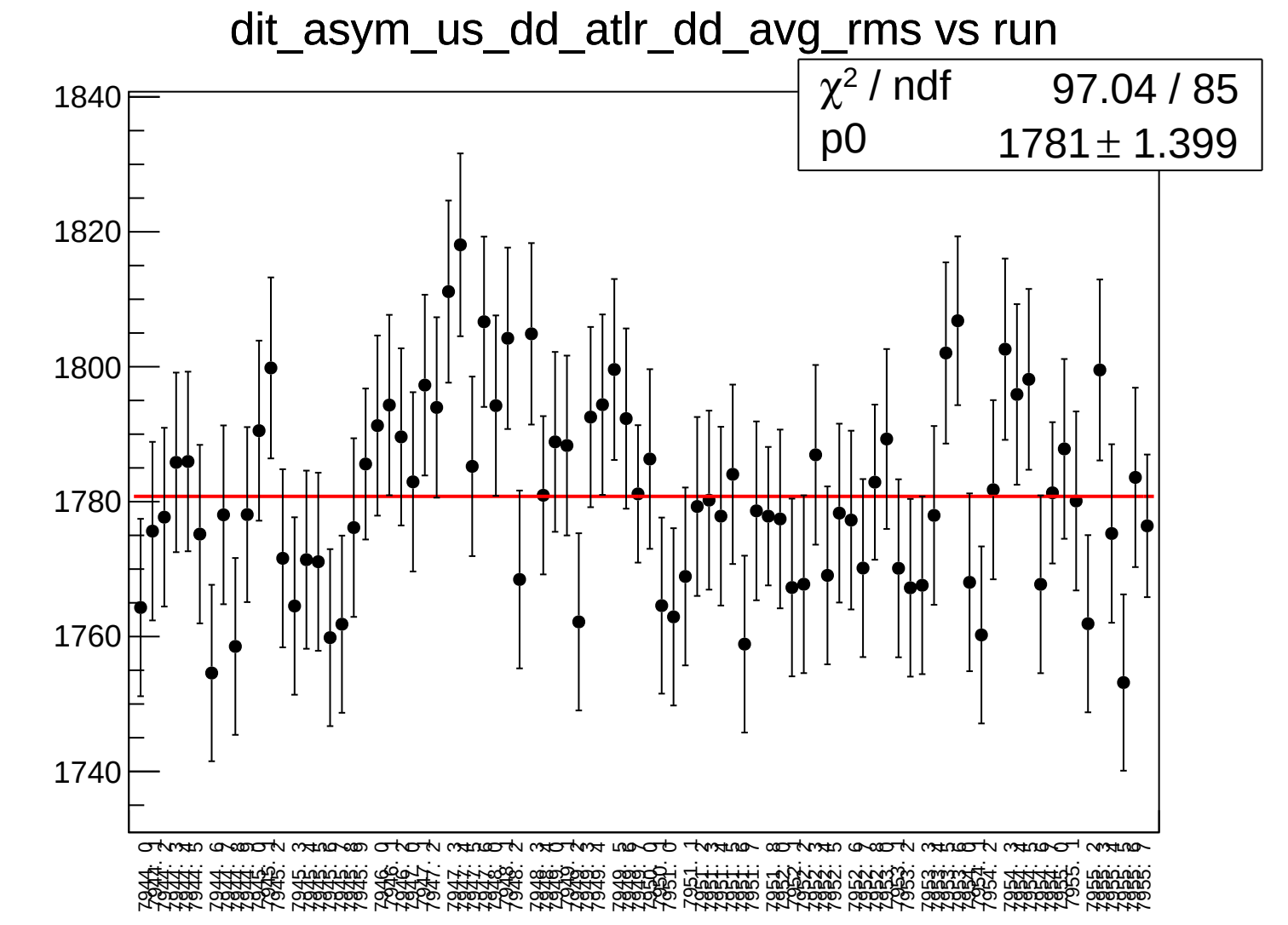

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.25 / 85
p0 251.9 ± 3223
100
50
0
−50
−100
pull
Entries 86
Mean −1025
Std Dev 0
2
1
0
−1
−2
−3

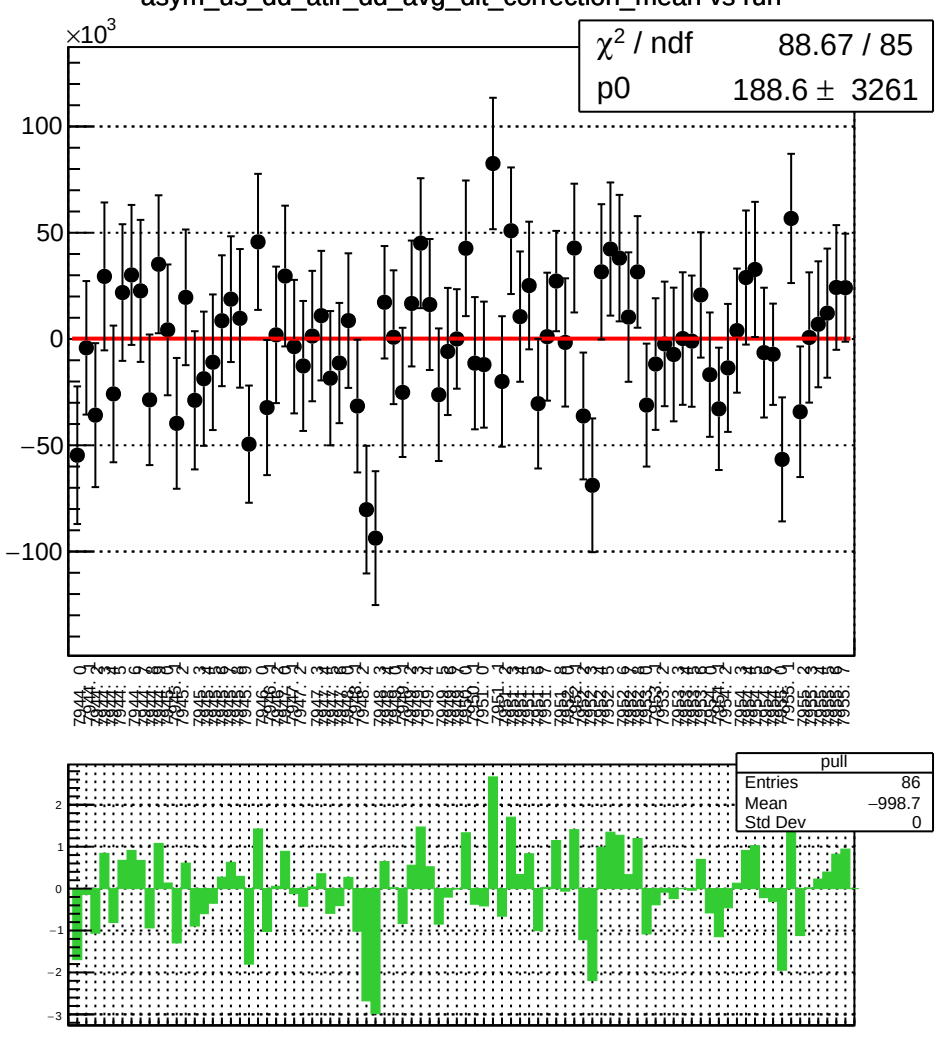

pull1D
Entries 86
Mean −0.002901
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

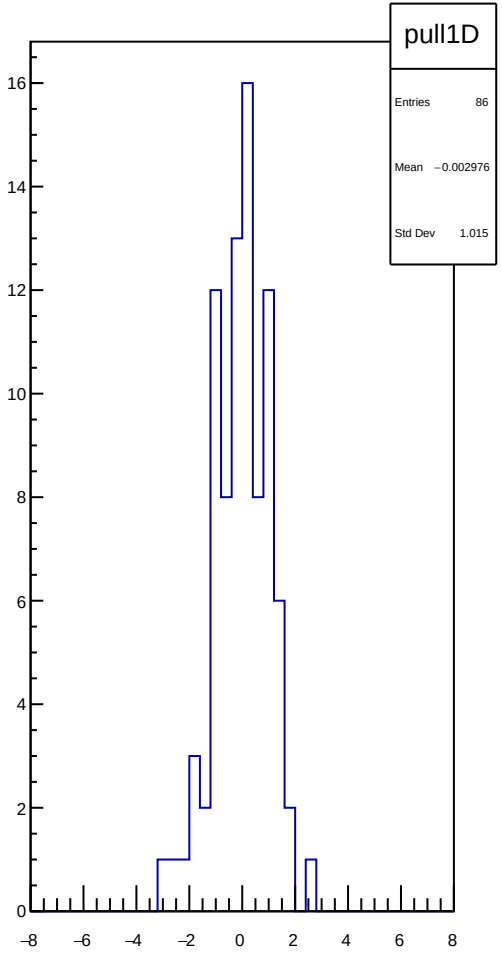

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2608 / 85
p0 2898 ± 2.279
3400
3300
3200
3100
3000
2900
2800
2700
2600

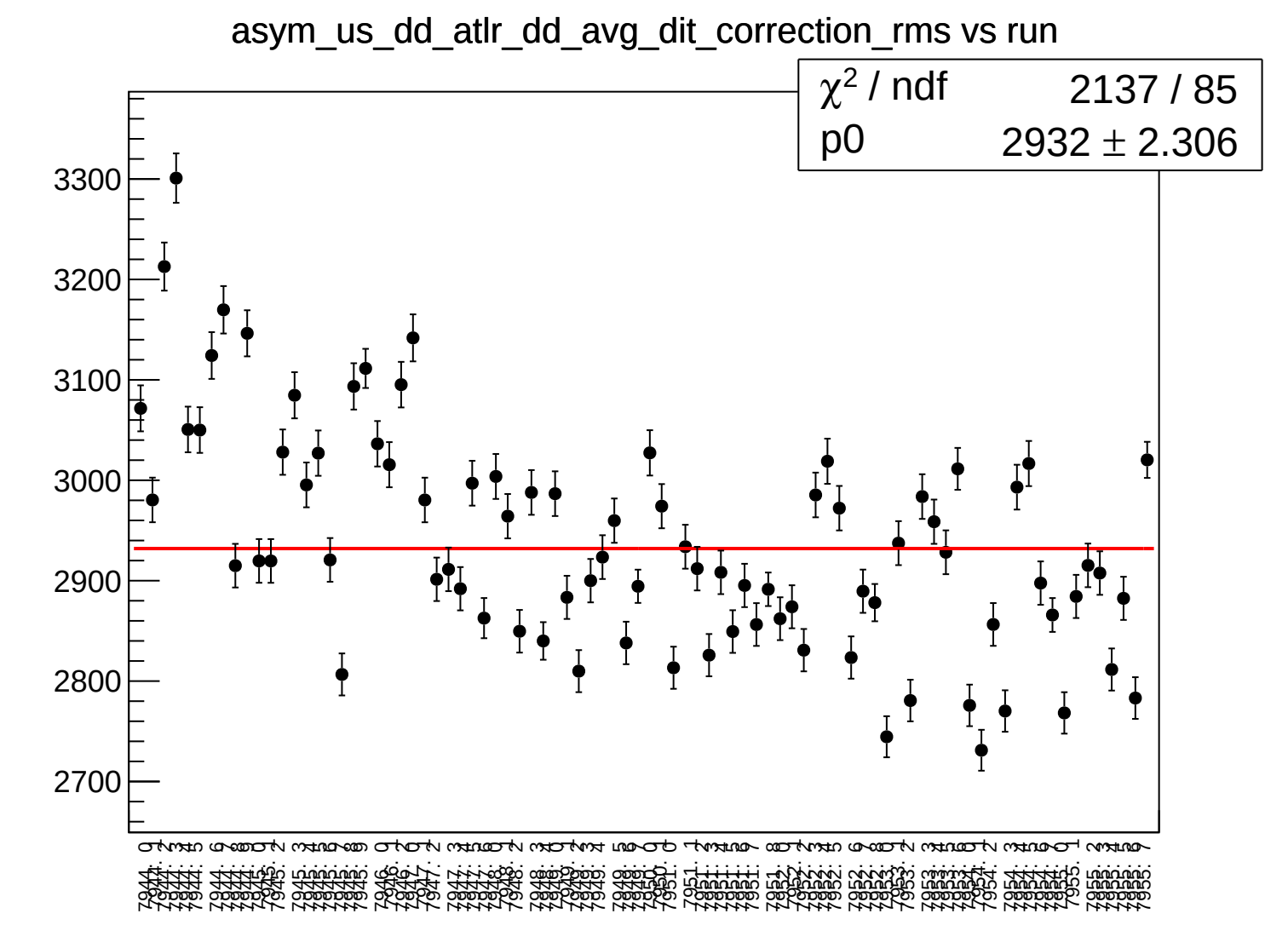

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 64.81 / 85
p0 868.3 ± 1979
pull
Entries 86
Mean −582.2
Std Dev 0

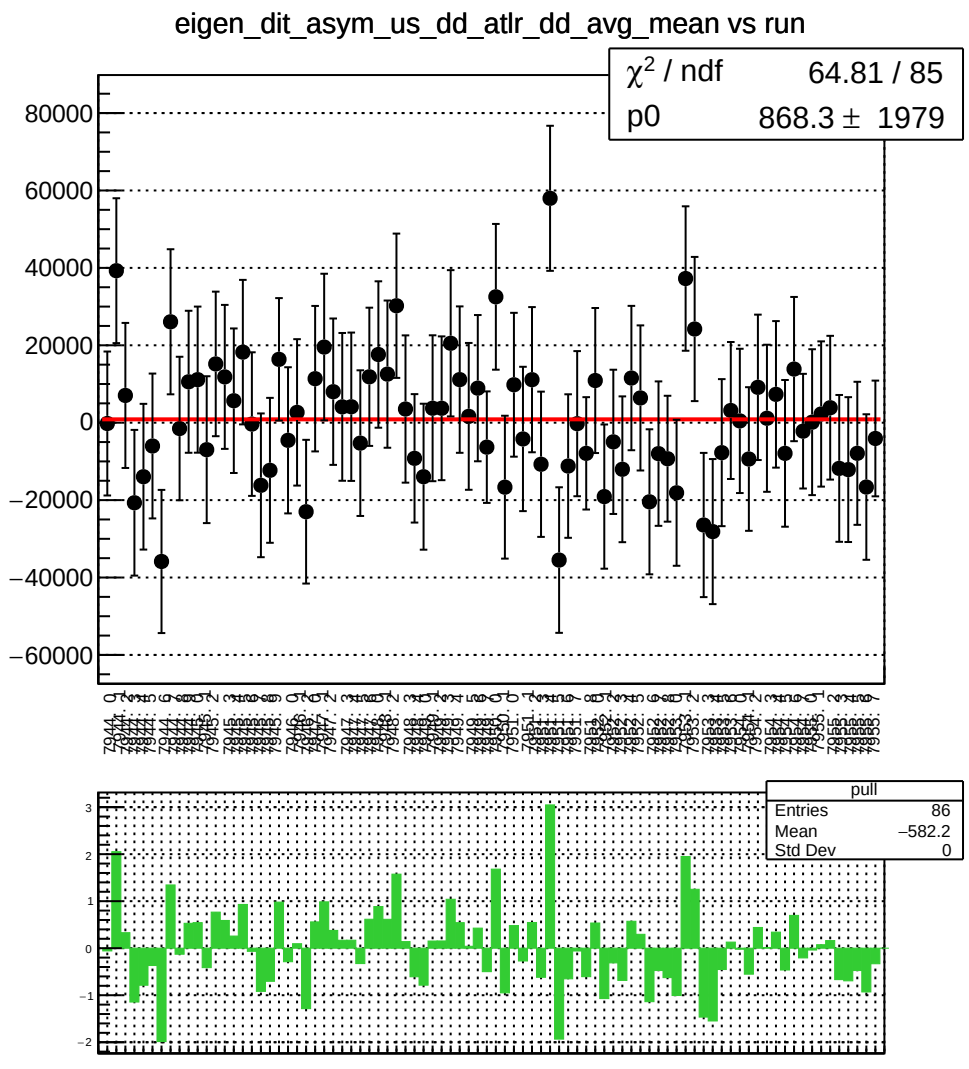

pull1D
Entries 86
Mean 0.005555
Std Dev 0.8681

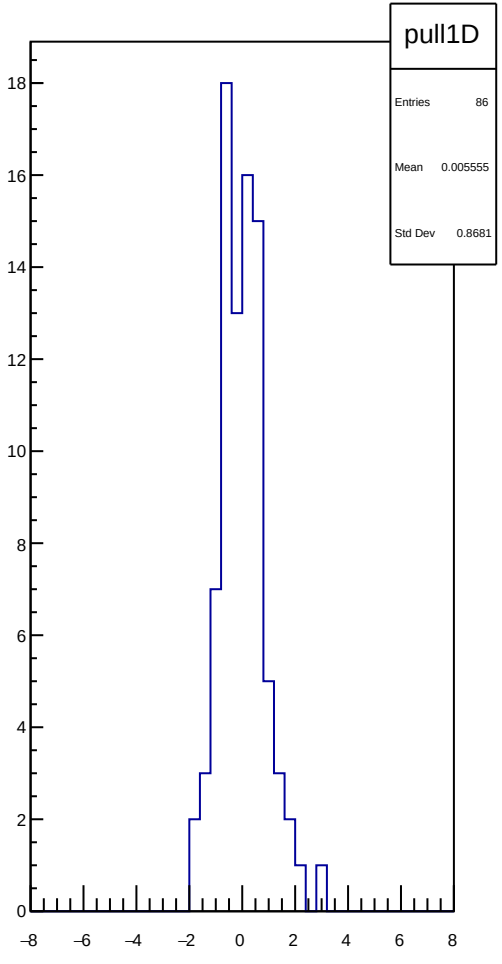

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 97.04 / 85
p0 1781 ± 1.399
1840
1820
1800
1780
1760
1740

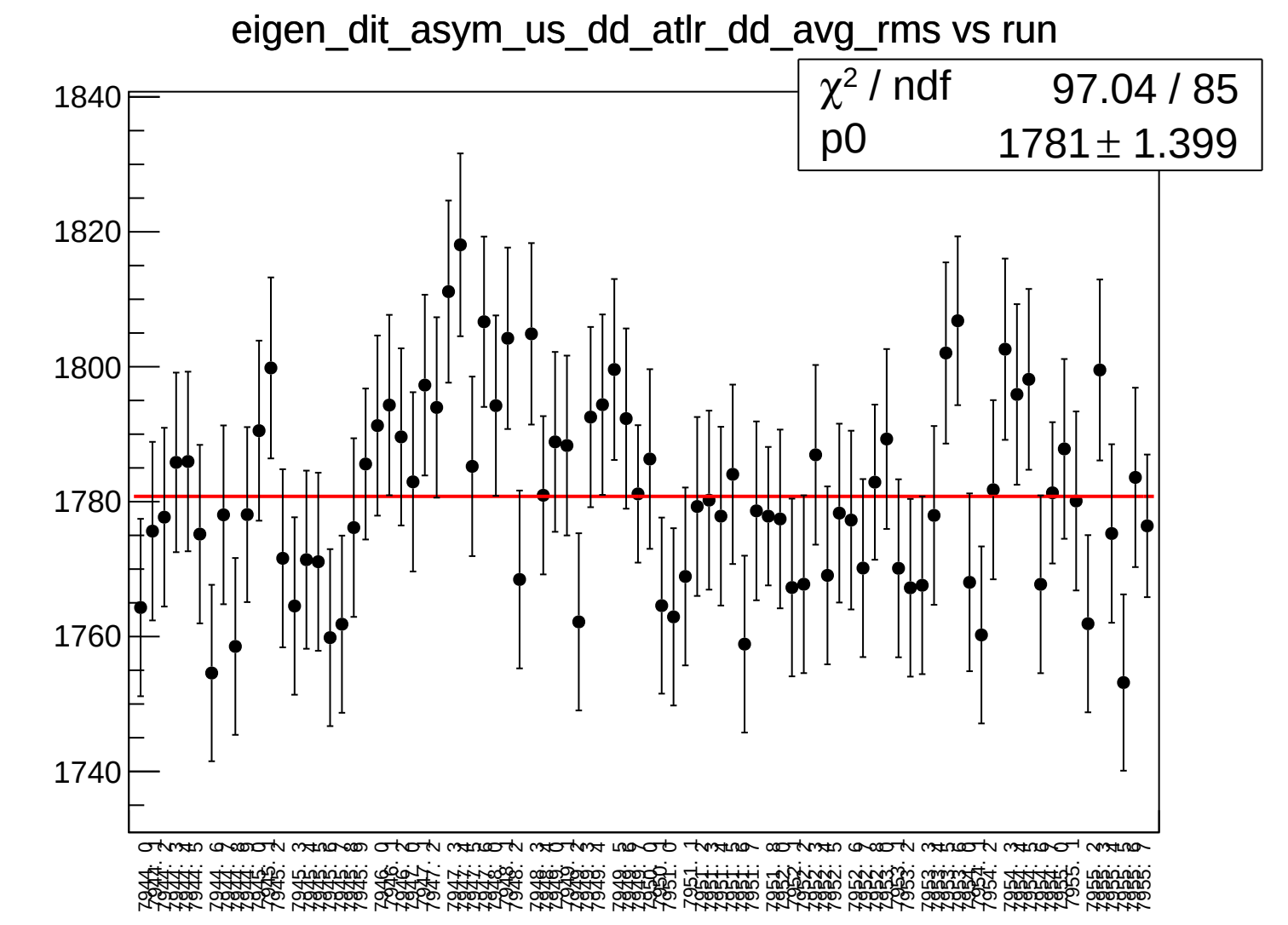

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.67 / 85
p0 188.6 ± 3261
100
50
0
−50
−100
pull
Entries 86
Mean −998.7
Std Dev 0
2
1
0
−1
−2
−3

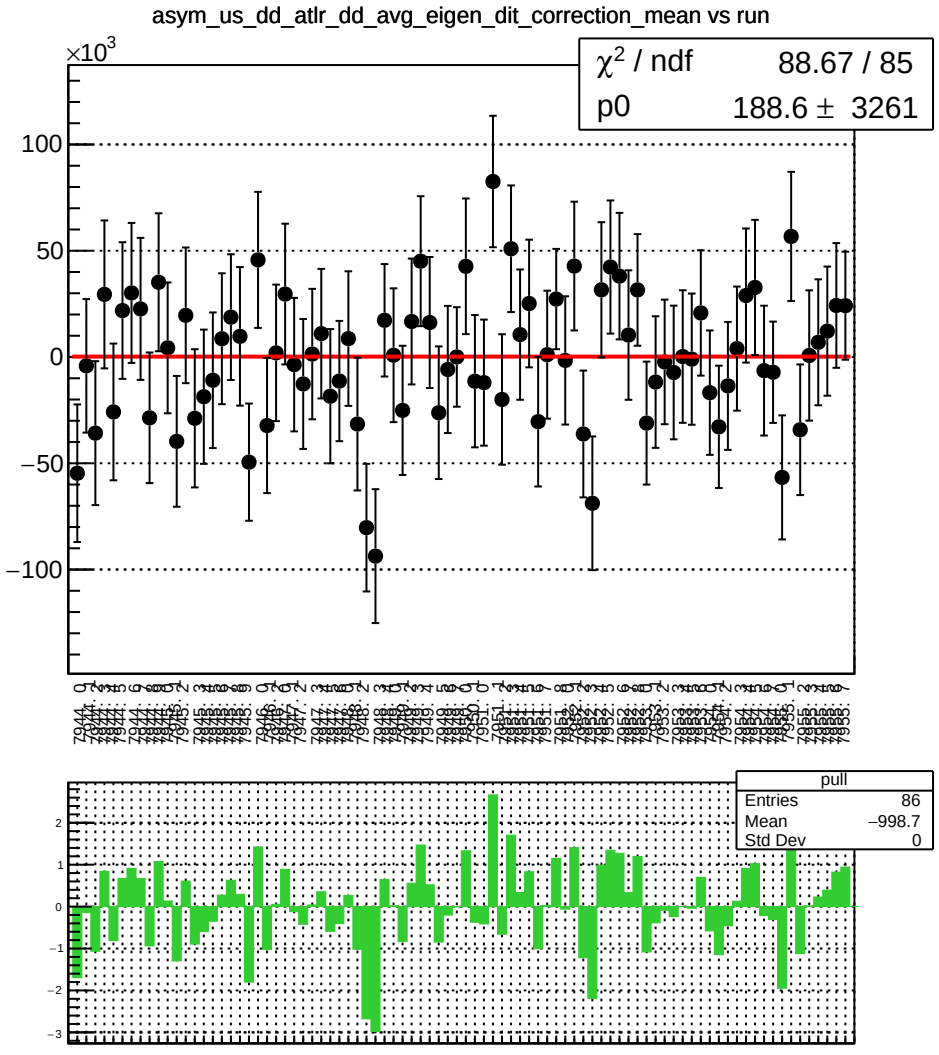

pull1D
Entries 86
Mean −0.002976
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

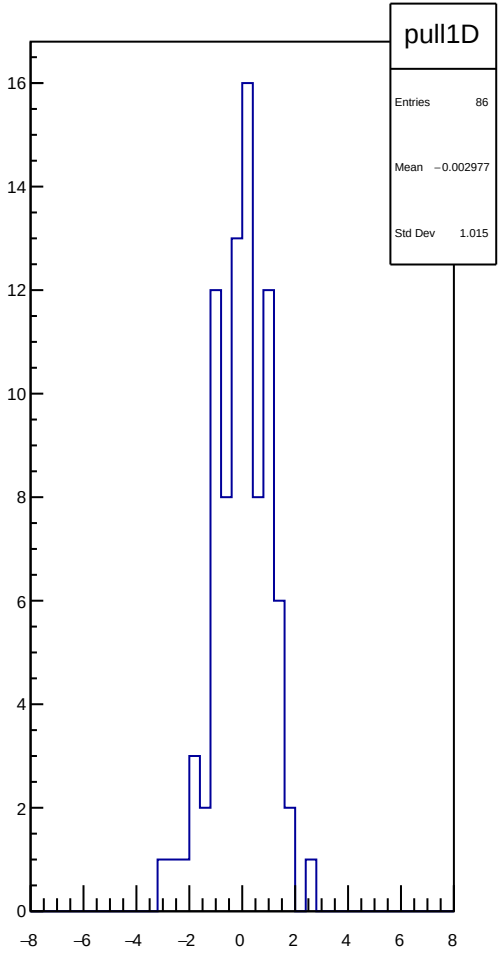

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 2137 / 85
p0 2932 ± 2.306
3300
3200
3100
3000
2900
2800
2700

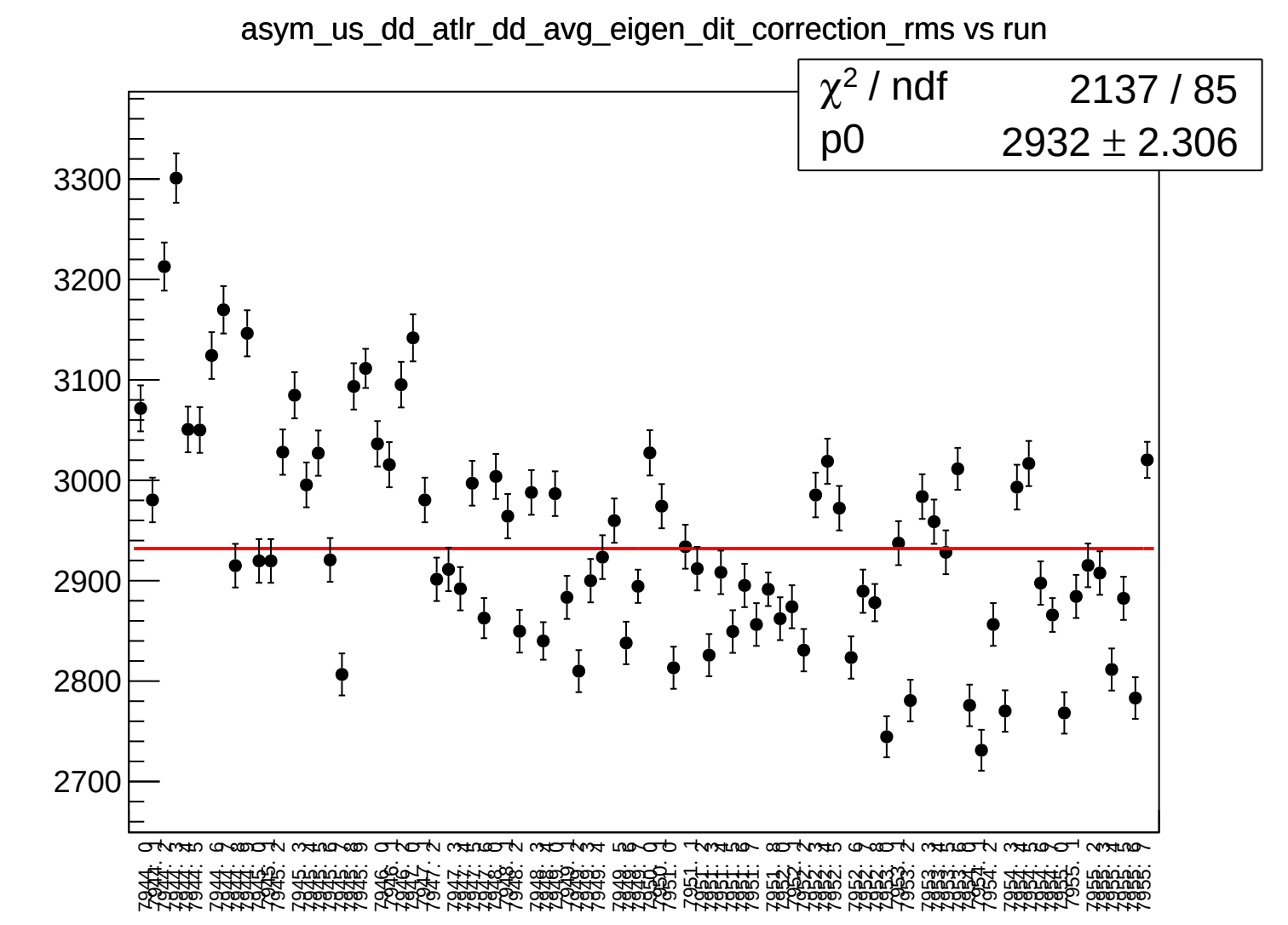

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 64.81 / 85
p0 868.3 ± 1979
pull
Entries 86
Mean −582.2
Std Dev 0

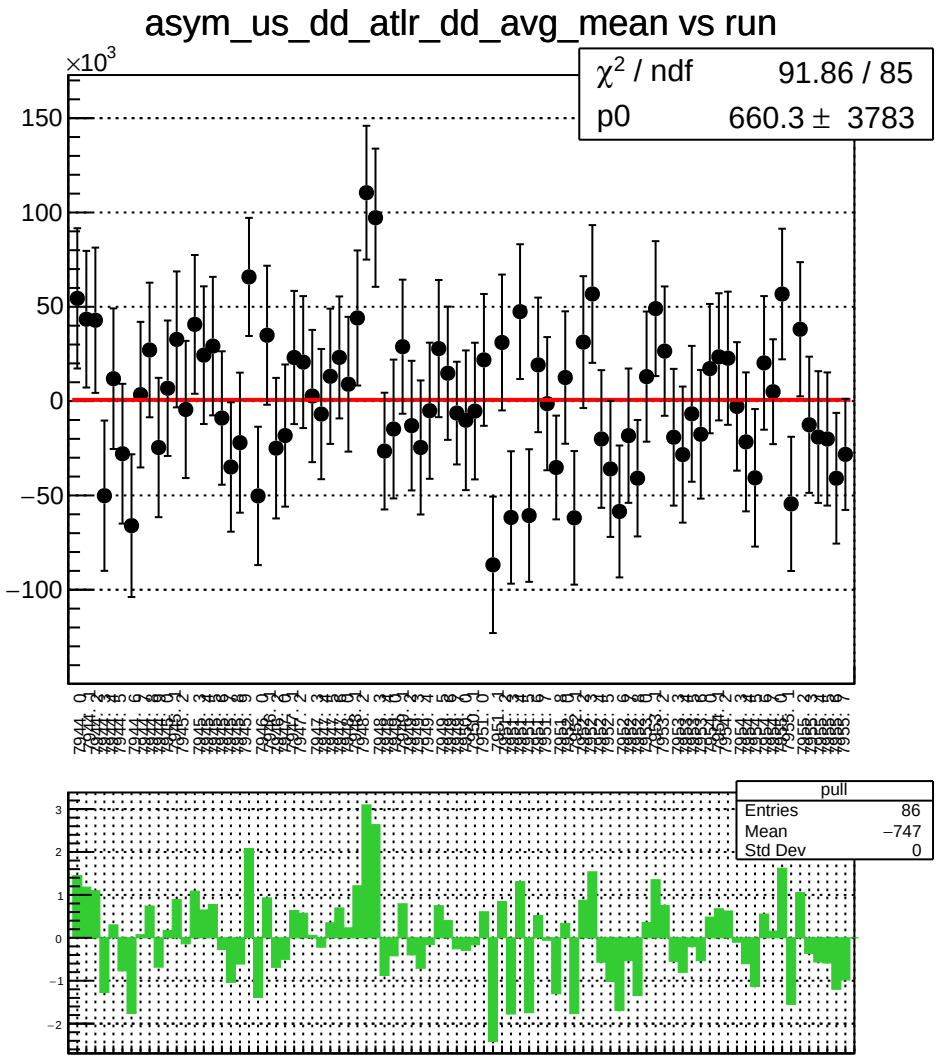

pull1D
Entries 86
Mean 0.005555
Std Dev 0.8681

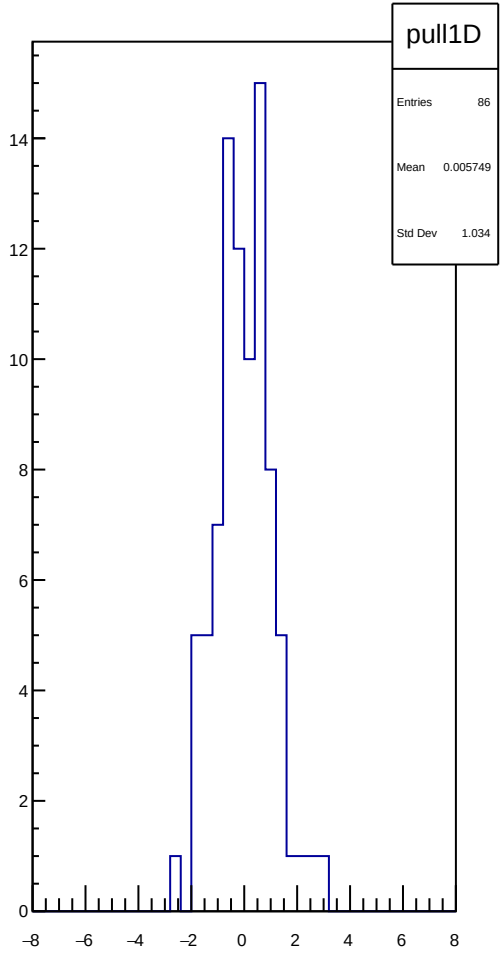

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 97.04 / 85
p0 1781 ± 1.399
1840
1820
1800
1780
1760
1740

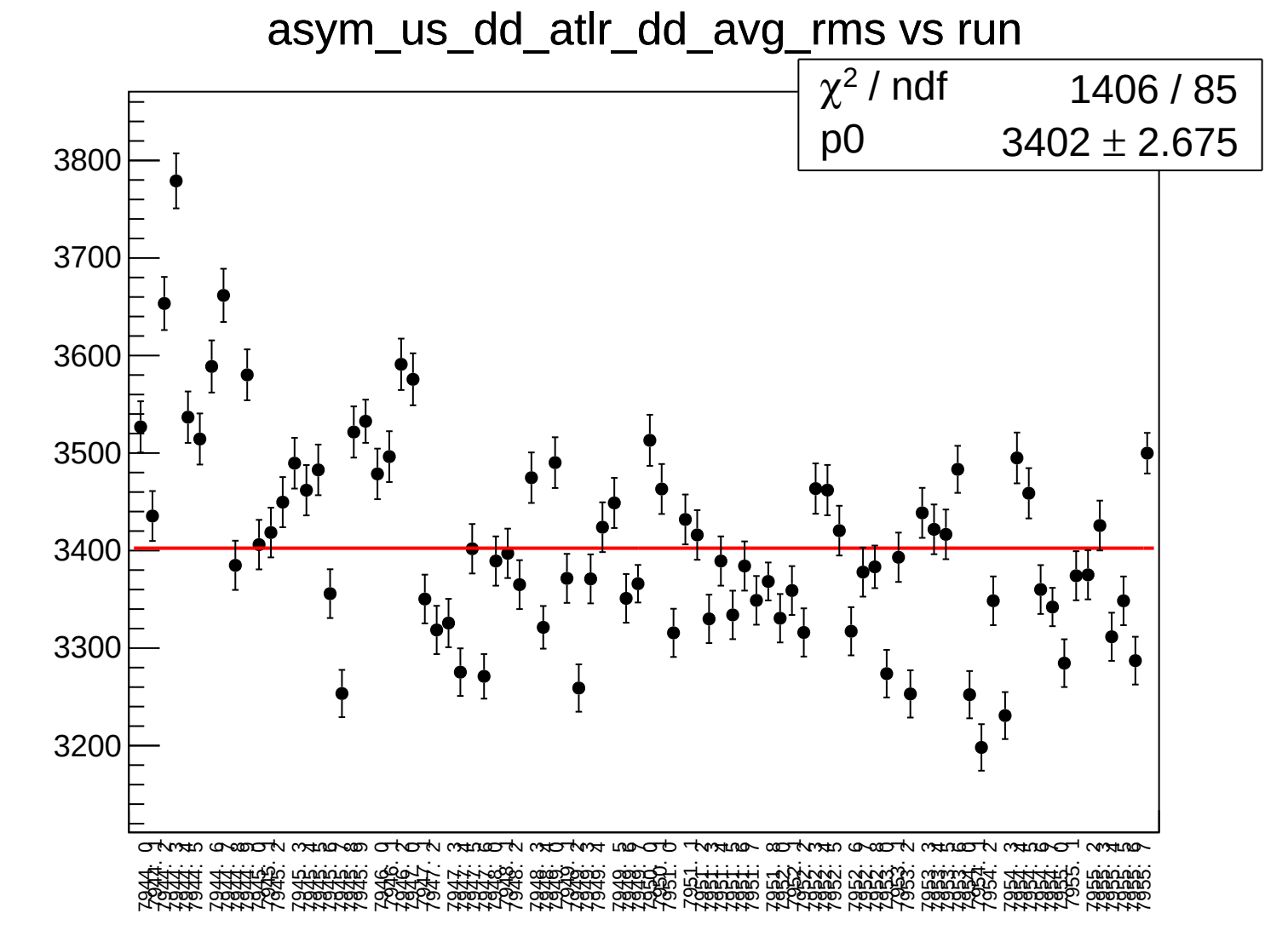

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.67 / 85
p0 188.6 ± 3261
100
50
0
−50
−100
pull
Entries 86
Mean −998.7
Std Dev 0
2
1
0
−1
−2
−3

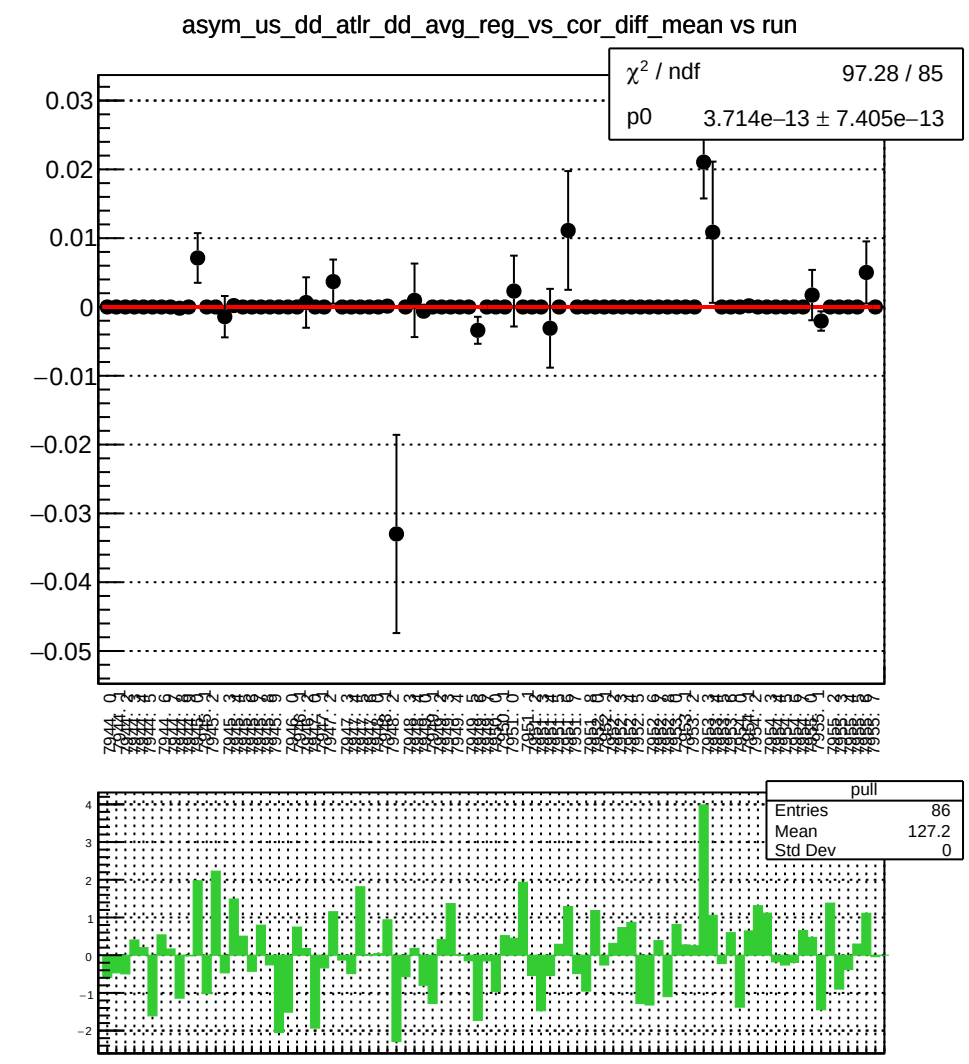

pull1D
Entries 86
Mean −0.002977
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

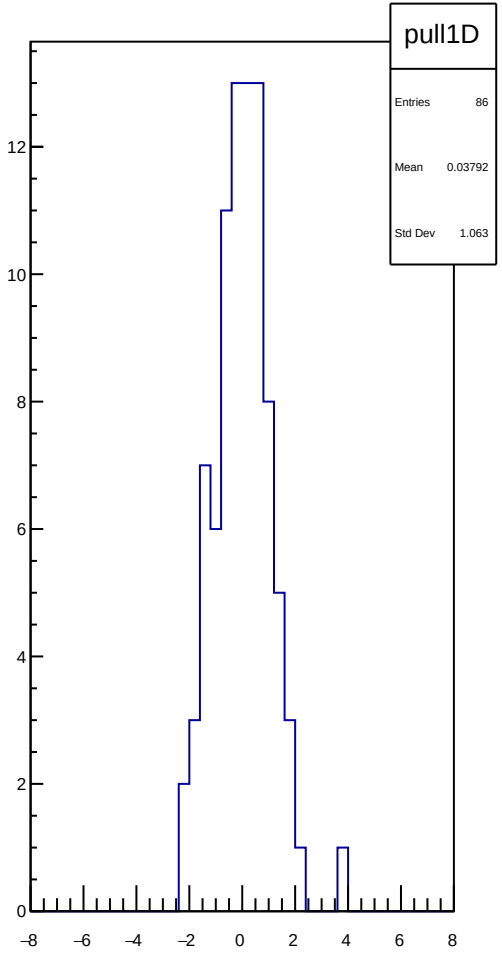

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2137 / 85
p0 2932 ± 2.306
3300
3200
3100
3000
2900
2800
2700

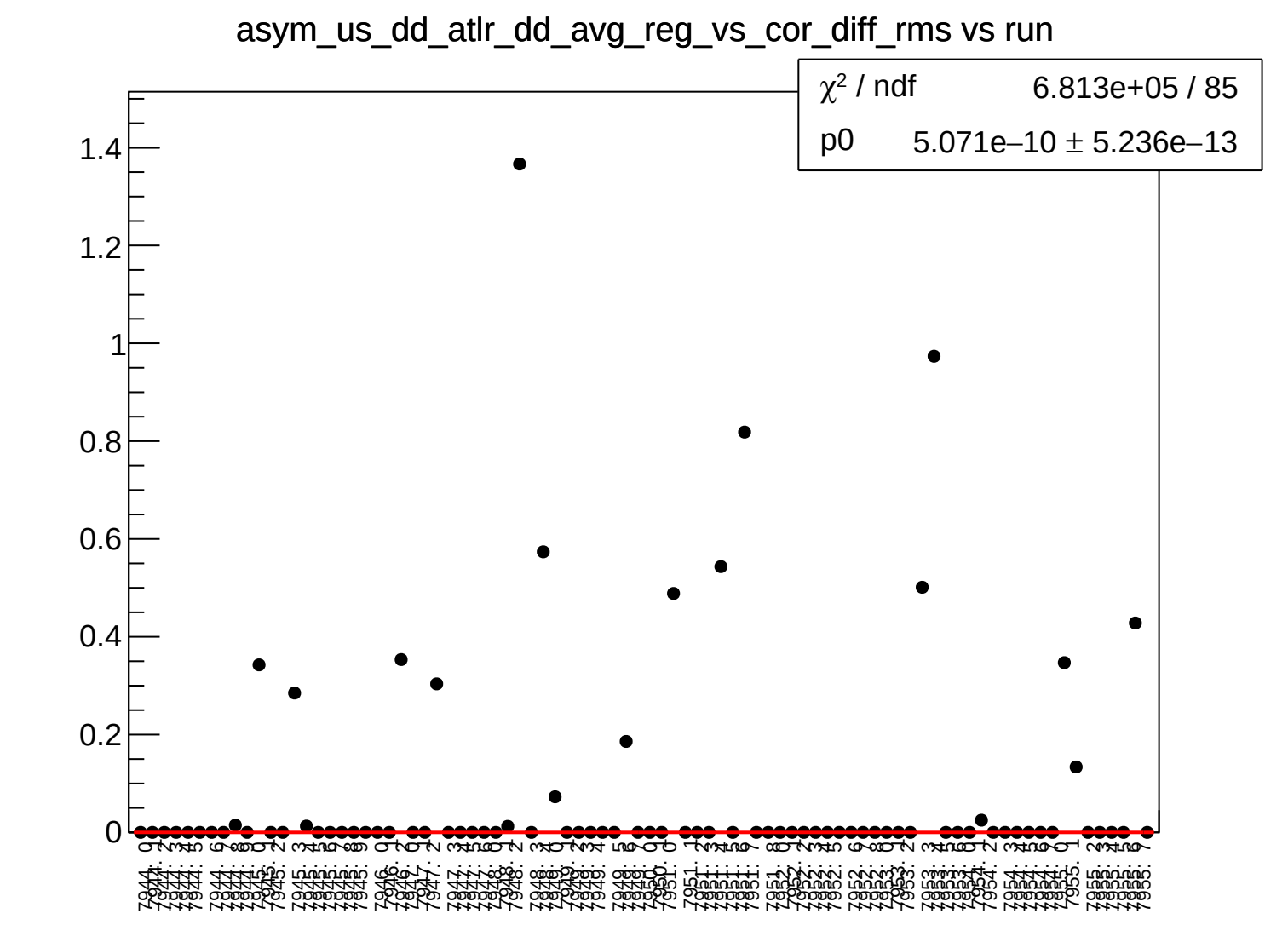

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 91.86 / 85
p0 660.3 ± 3783
150
100
50
0
−50
−100
pull
Entries 86
Mean −747
Std Dev 0
3
2
1
0
−1
−2

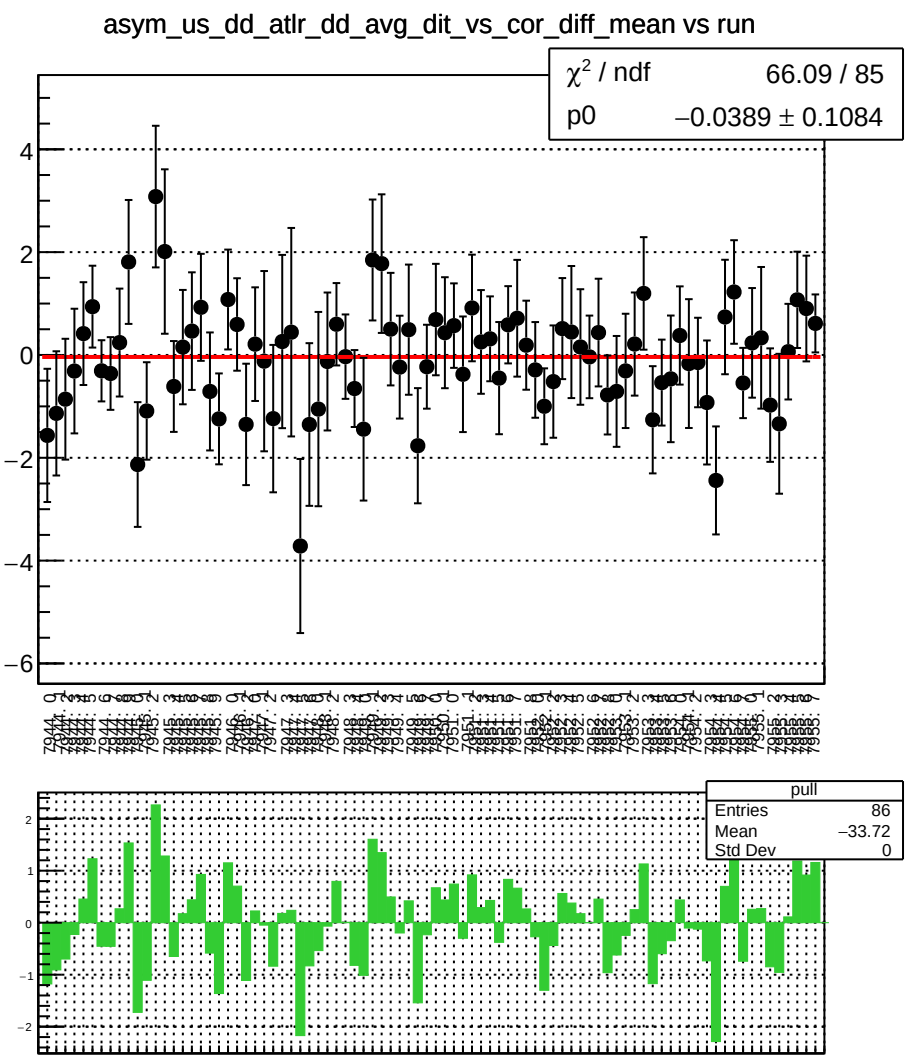

pull1D
Entries 86
Mean 0.005749
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

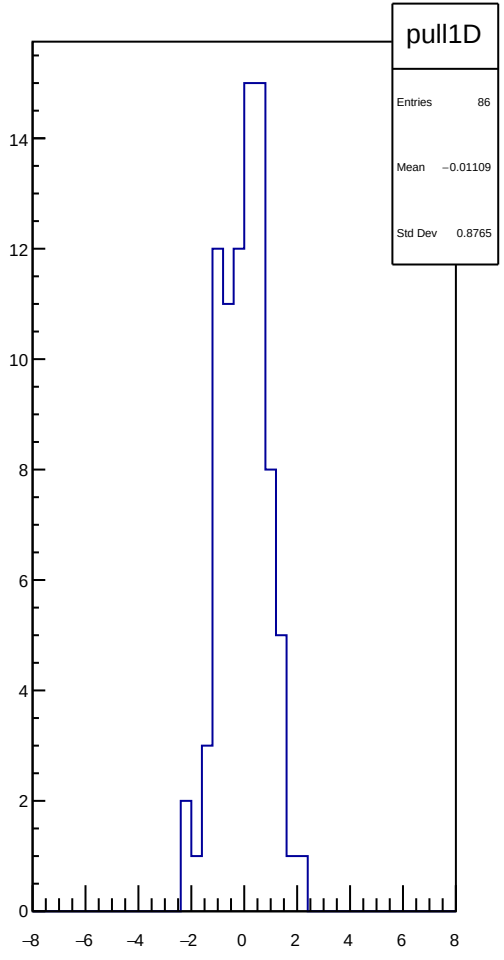

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1406 / 85
p0 3402 ± 2.675
3800
3700
3600
3500
3400
3300
3200

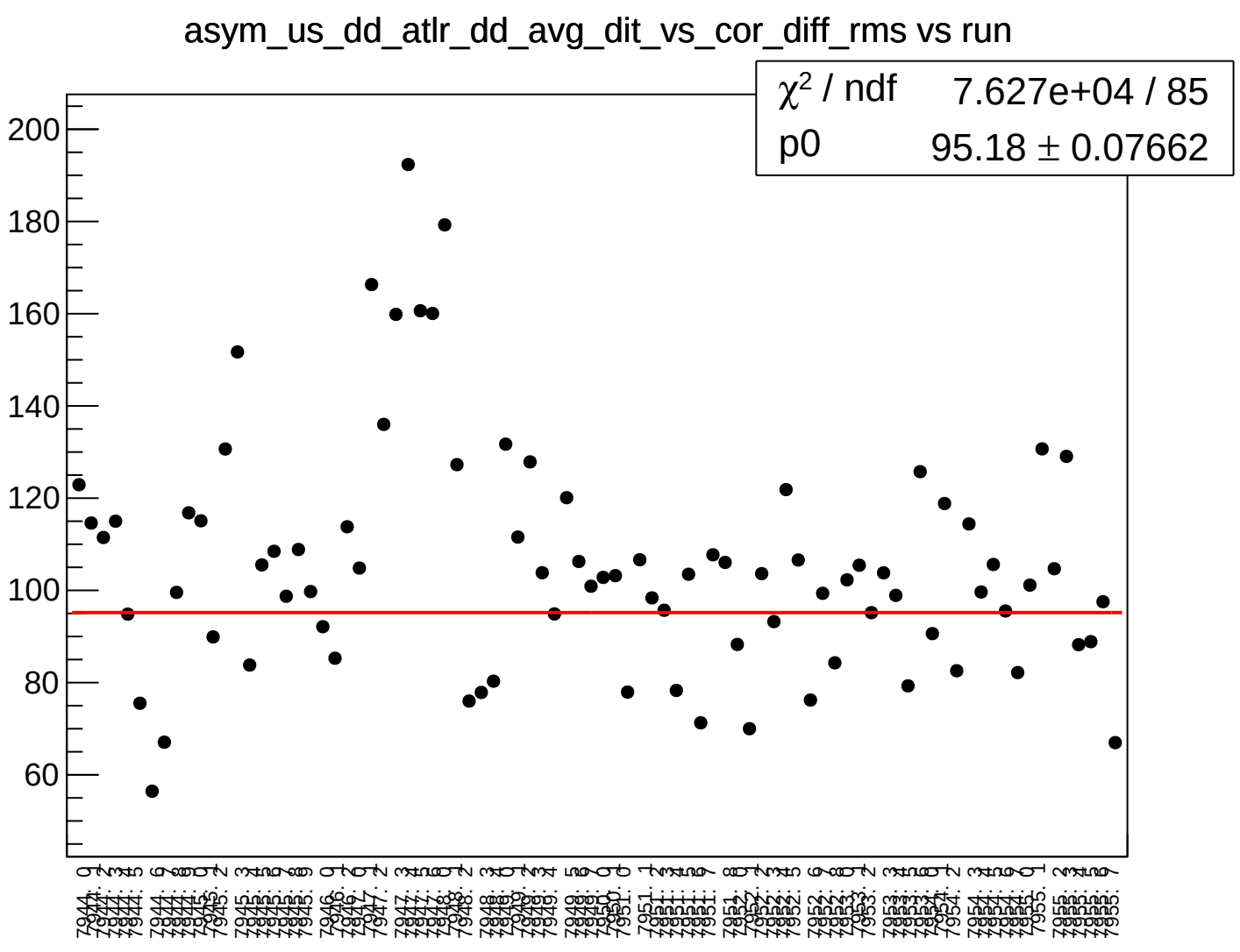

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.28 / 85
p0 3.714e−13 ± 7.405e−13
pull
Entries 86
Mean 127.2
Std Dev 0

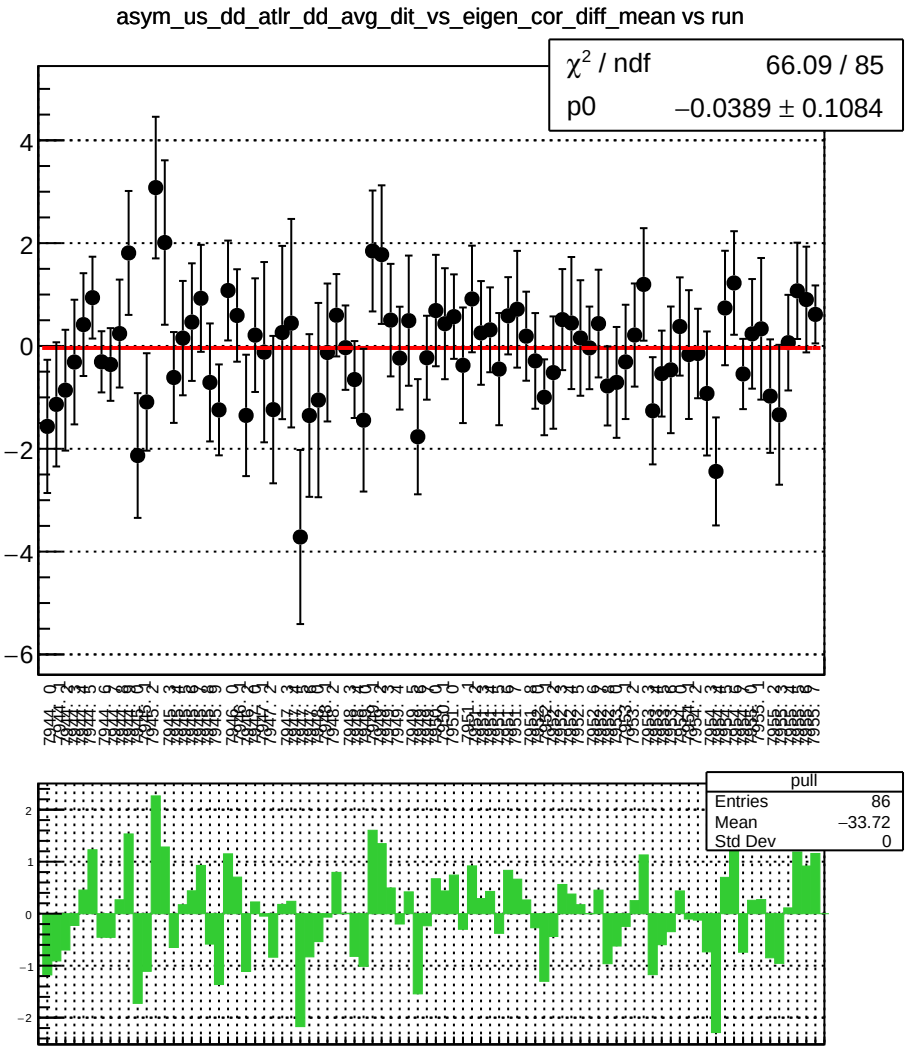

pull1D
Entries 86
Mean 0.03792
Std Dev 1.063

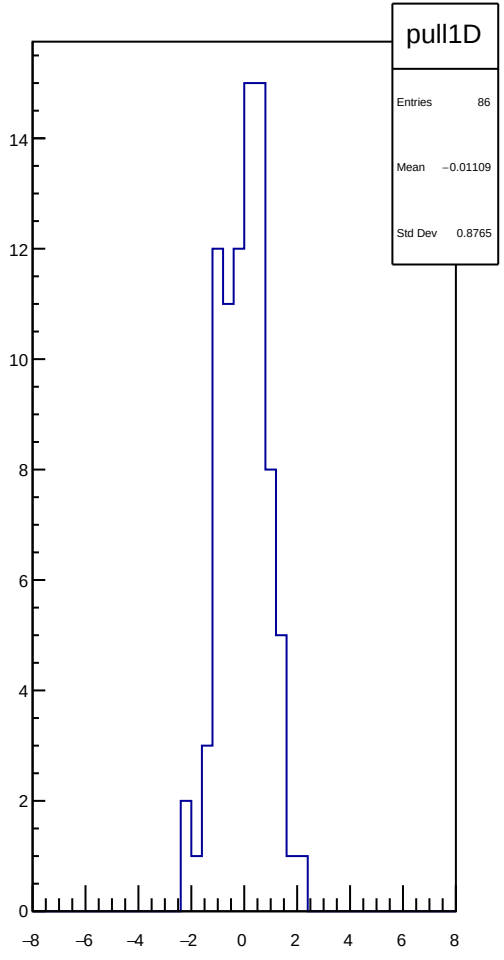

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.813e+05 / 85
p0 5.071e−10 ± 5.236e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

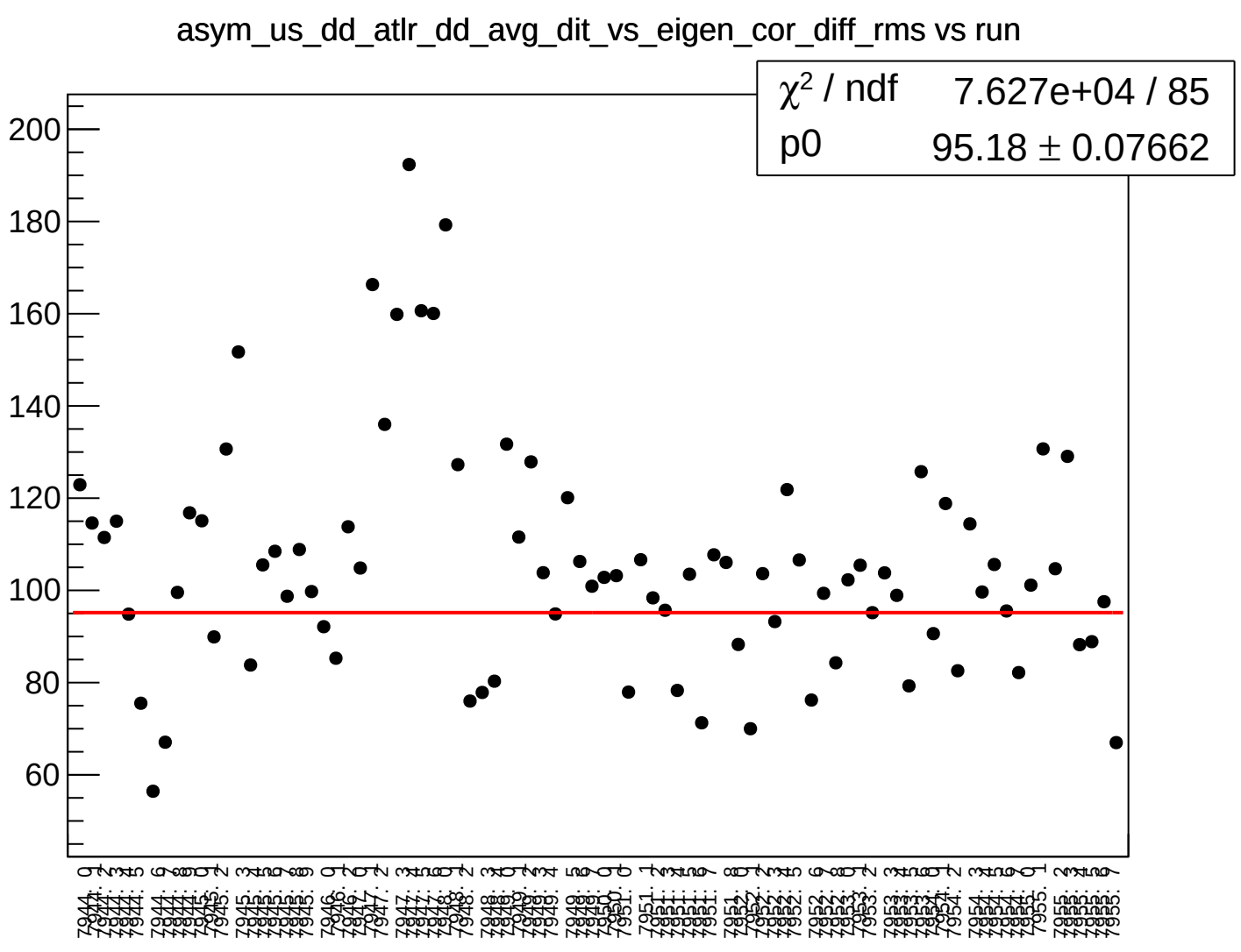

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.09 / 85
p0 −0.0389 ± 0.1084
pull
Entries 86
Mean −33.72
Std Dev 0

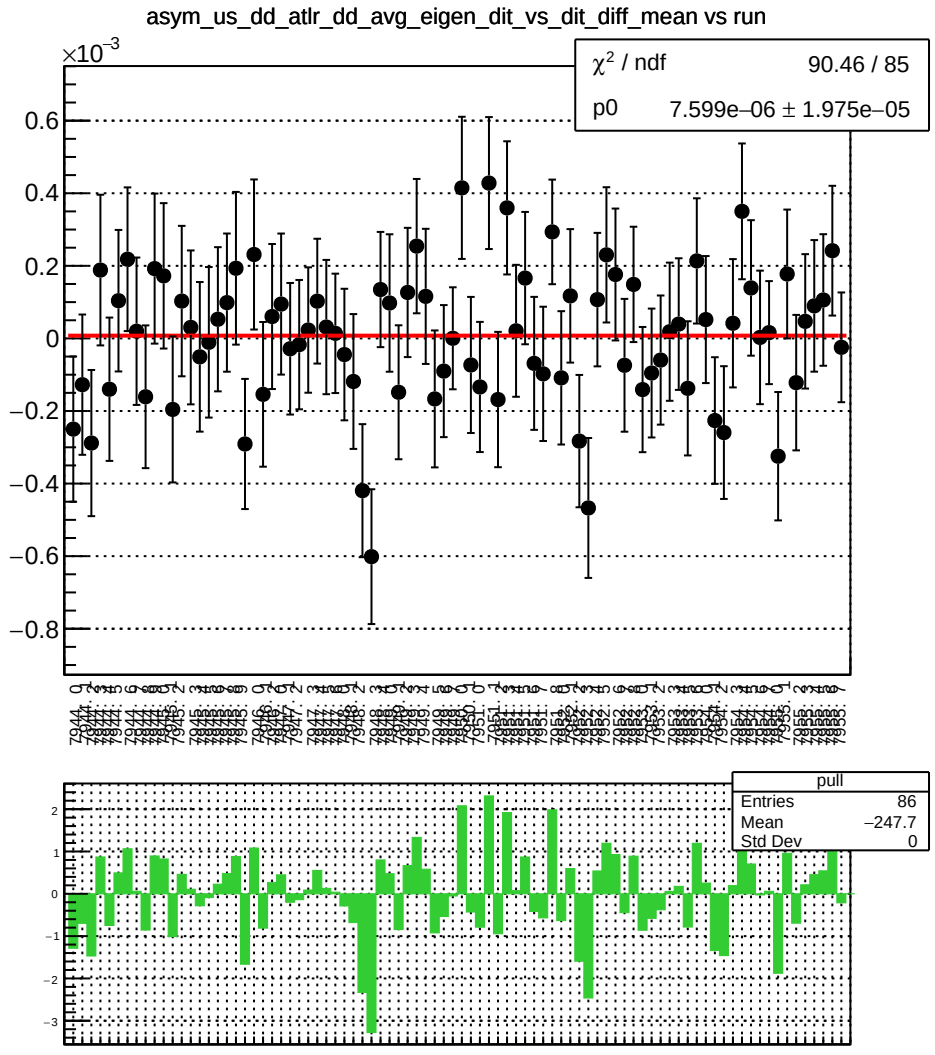

pull1D
Entries 86
Mean −0.01109
Std Dev 0.8765

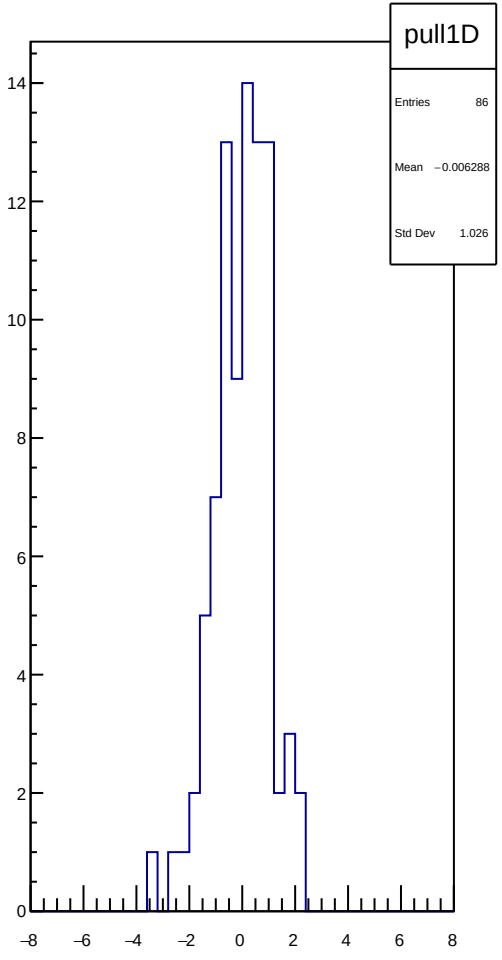

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.627e+04 / 85
p0 95.18 ± 0.07662
200
180
160
140
120
100
80
60

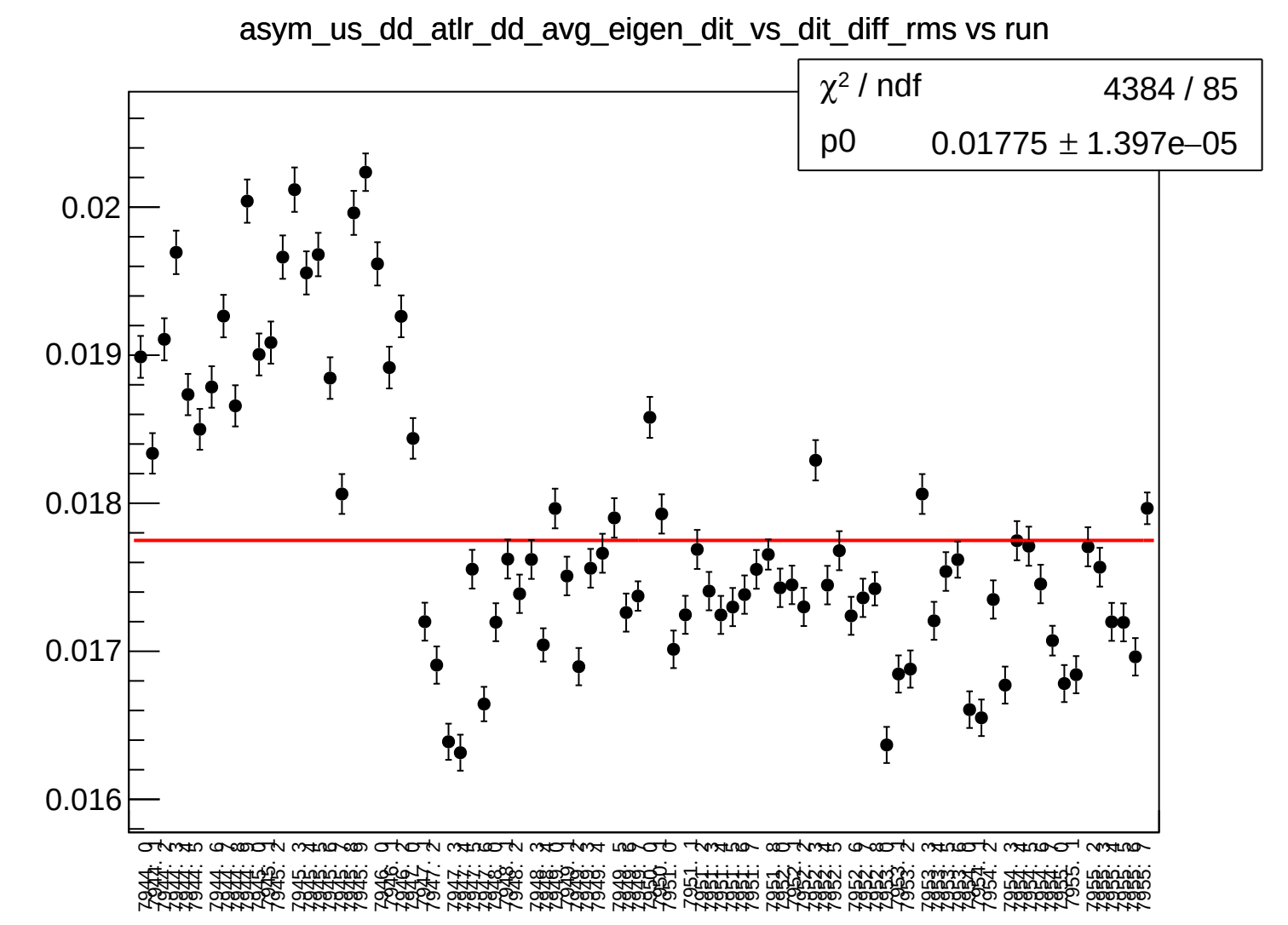

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.09 / 85
p0 −0.0389 ± 0.1084
pull
Entries 86
Mean −33.72
Std Dev 0

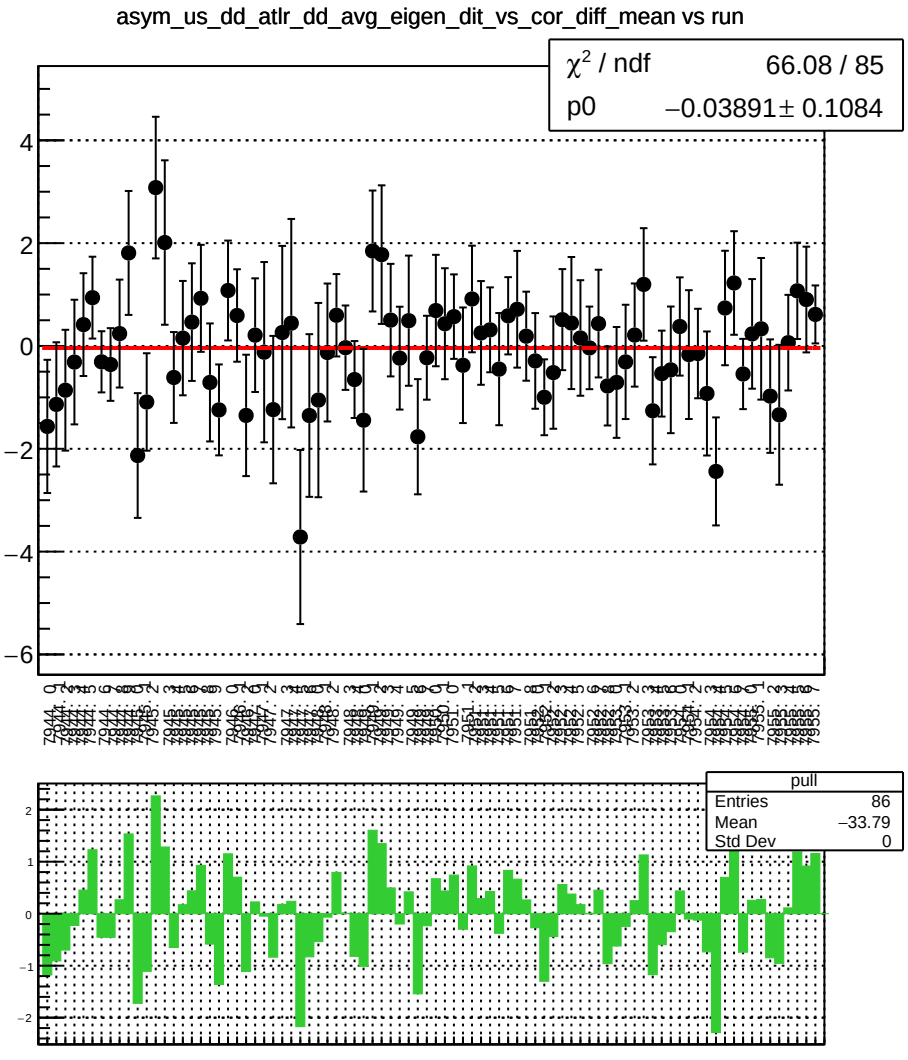

pull1D
Entries 86
Mean −0.01109
Std Dev 0.8765

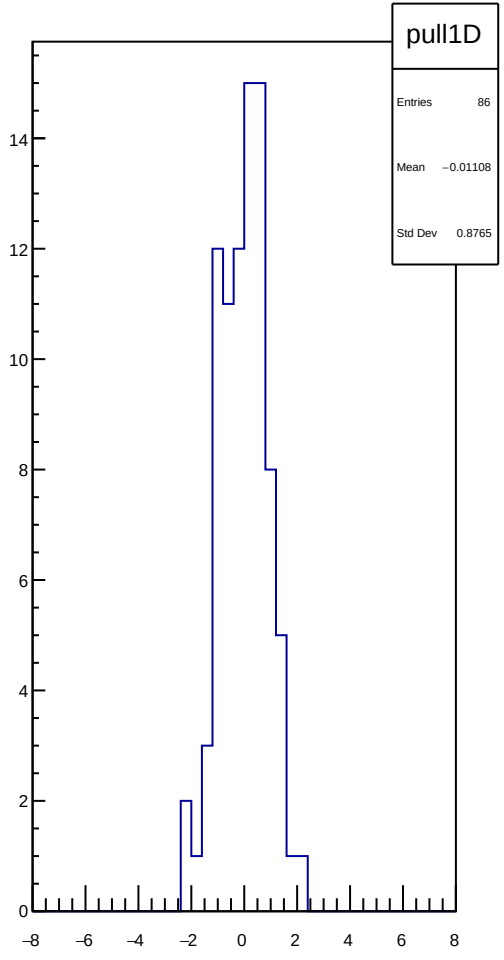

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.627e+04 / 85
p0 95.18 ± 0.07662
200
180
160
140
120
100
80
60

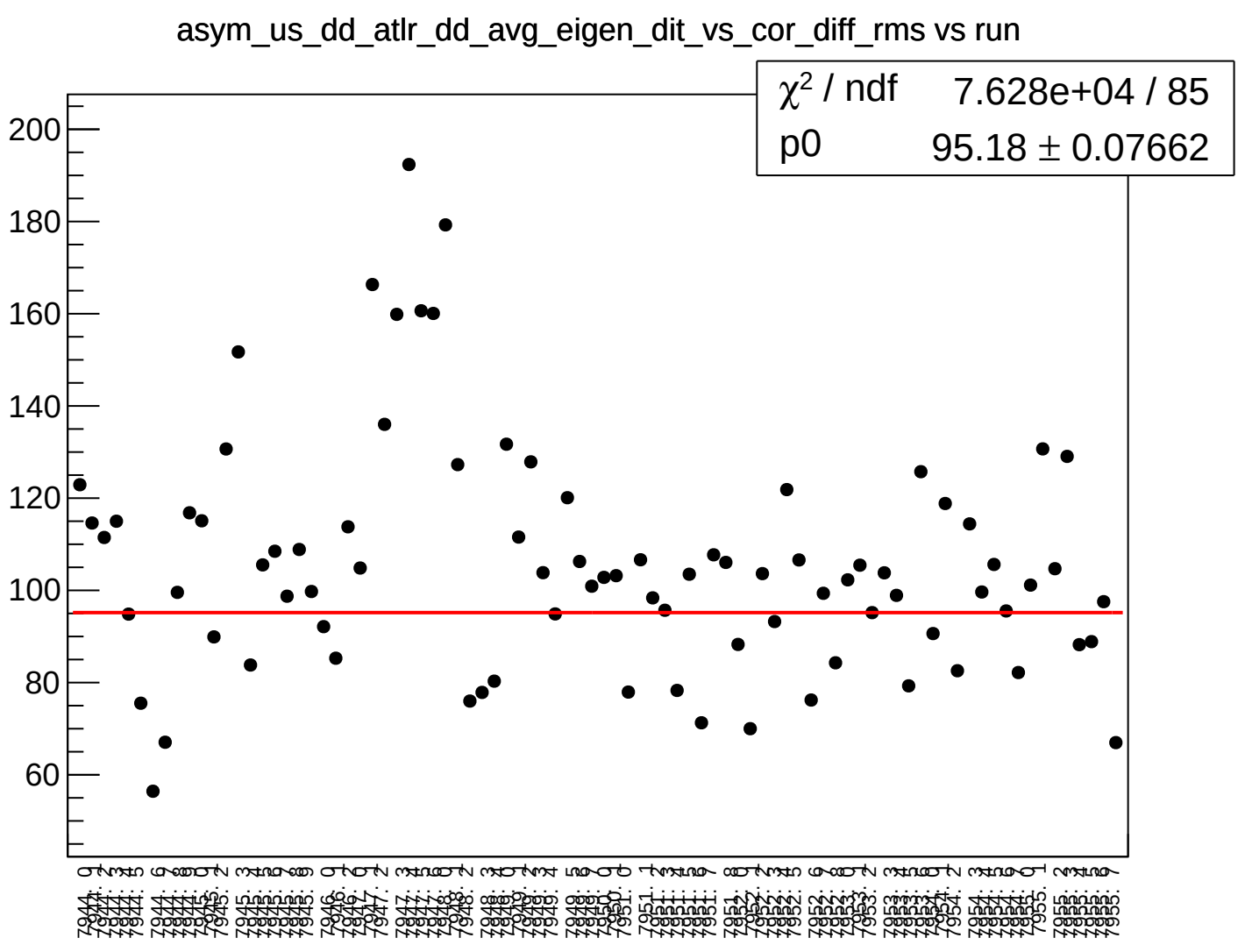

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.46 / 85
p0 7.599e−06 ± 1.975e−05
pull
Entries 86
Mean −247.7
Std Dev 0

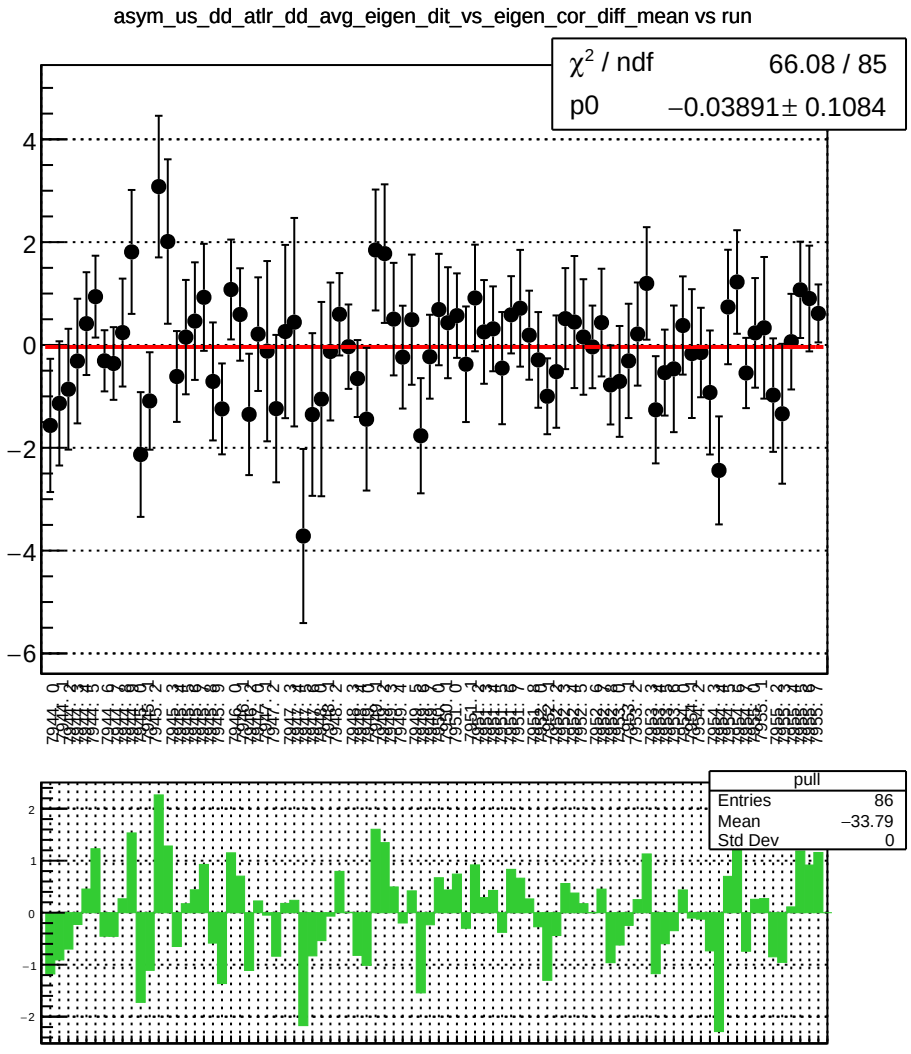

pull1D
Entries 86
Mean −0.006288
Std Dev 1.026

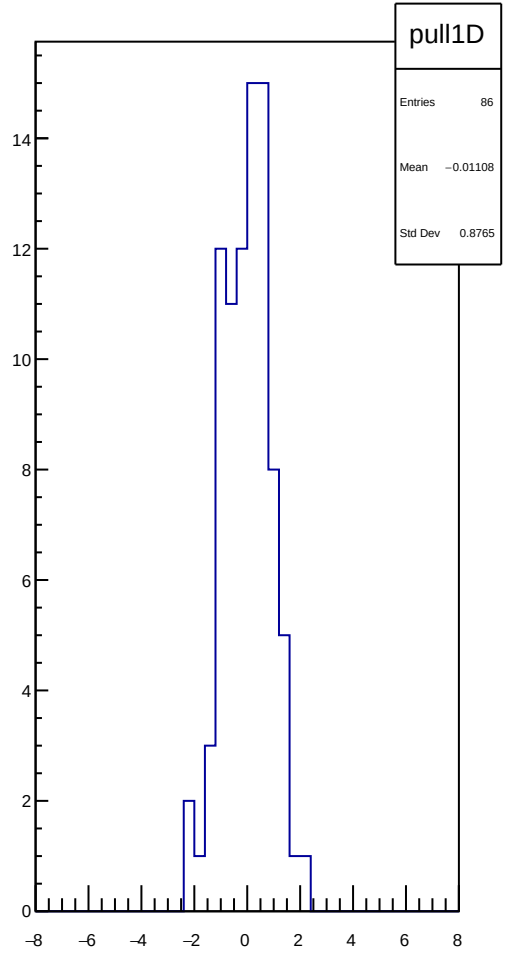

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4384 / 85
p0 0.01775 ± 1.397e−05
0.02
0.019
0.018
0.017
0.016

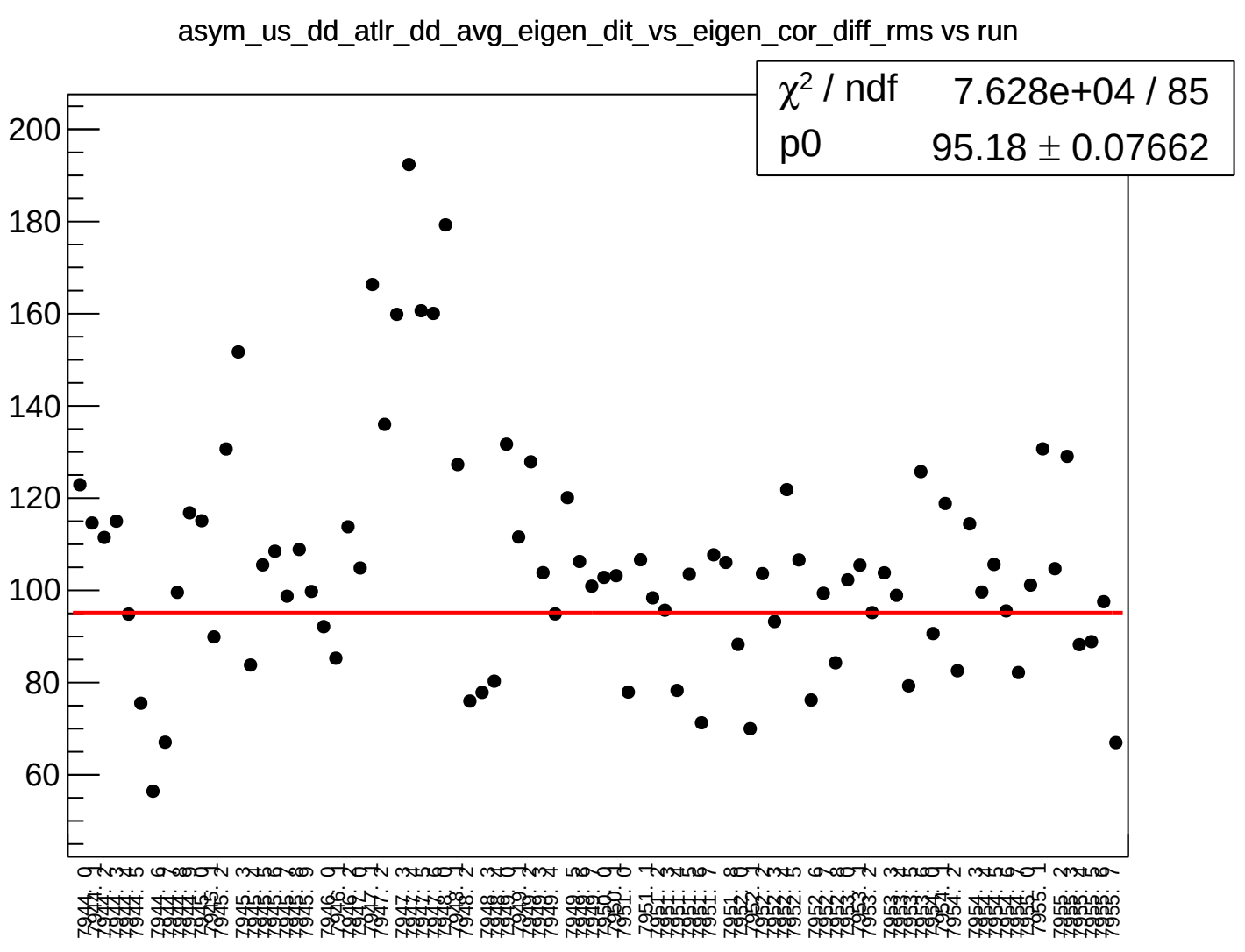

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.08 / 85
p0 −0.03891 ± 0.1084
pull
Entries 86
Mean −33.79
Std Dev 0

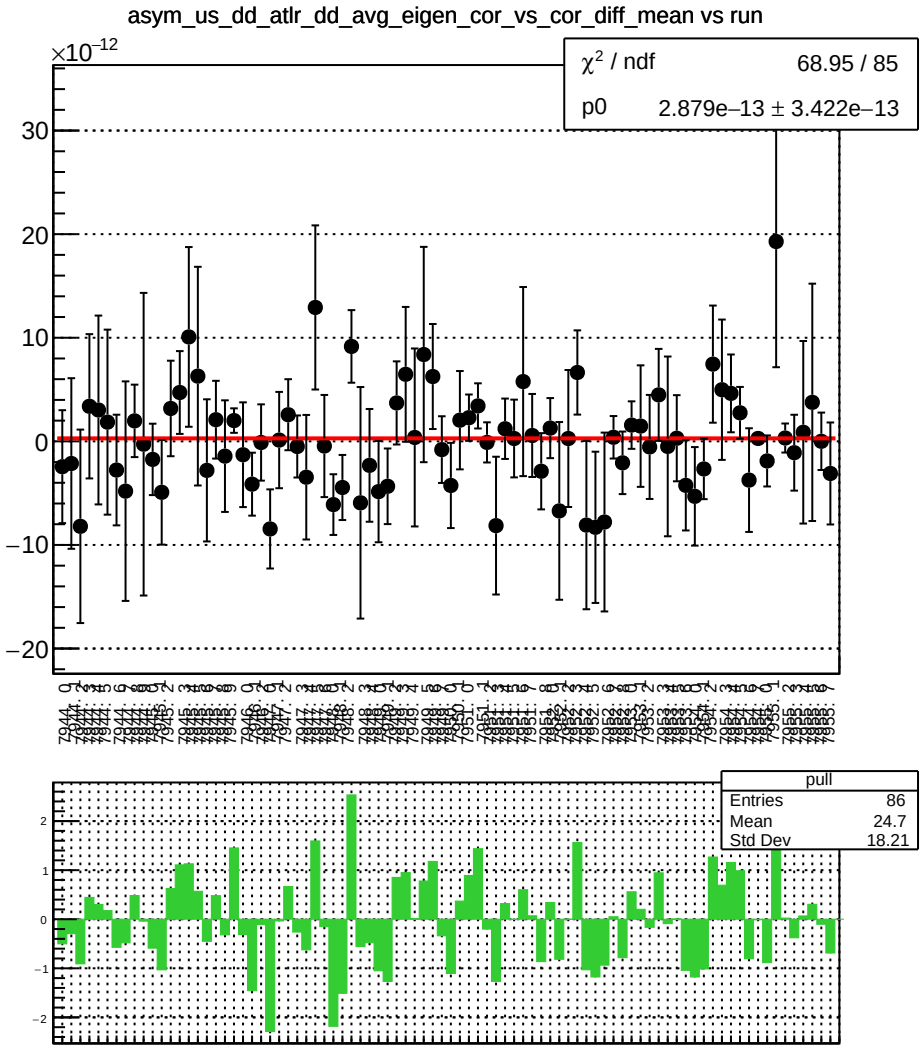

pull1D
Entries 86
Mean −0.01108
Std Dev 0.8765

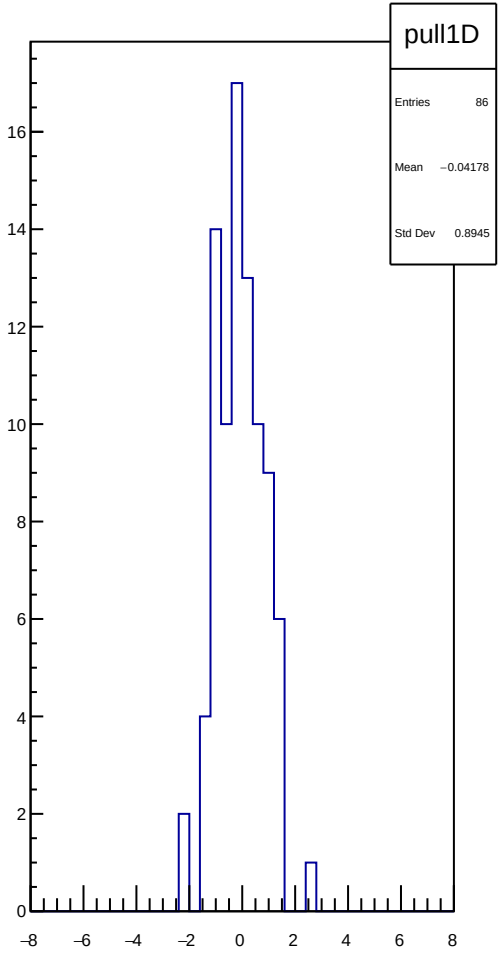

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.628e+04 / 85
p0 95.18 ± 0.07662
200
180
160
140
120
100
80
60

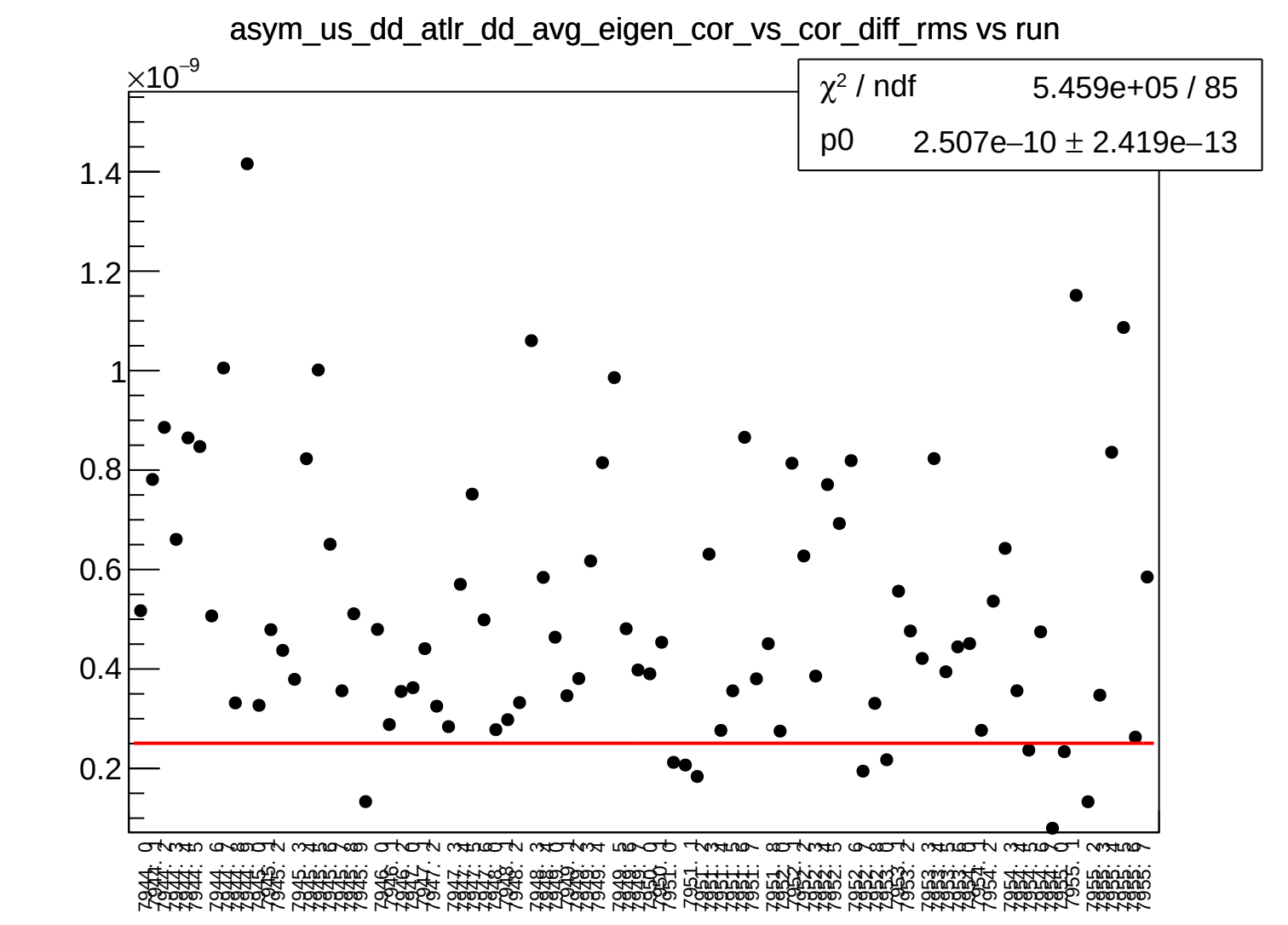

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.08 / 85
p0 −0.03891 ± 0.1084
pull
Entries 86
Mean −33.79
Std Dev 0

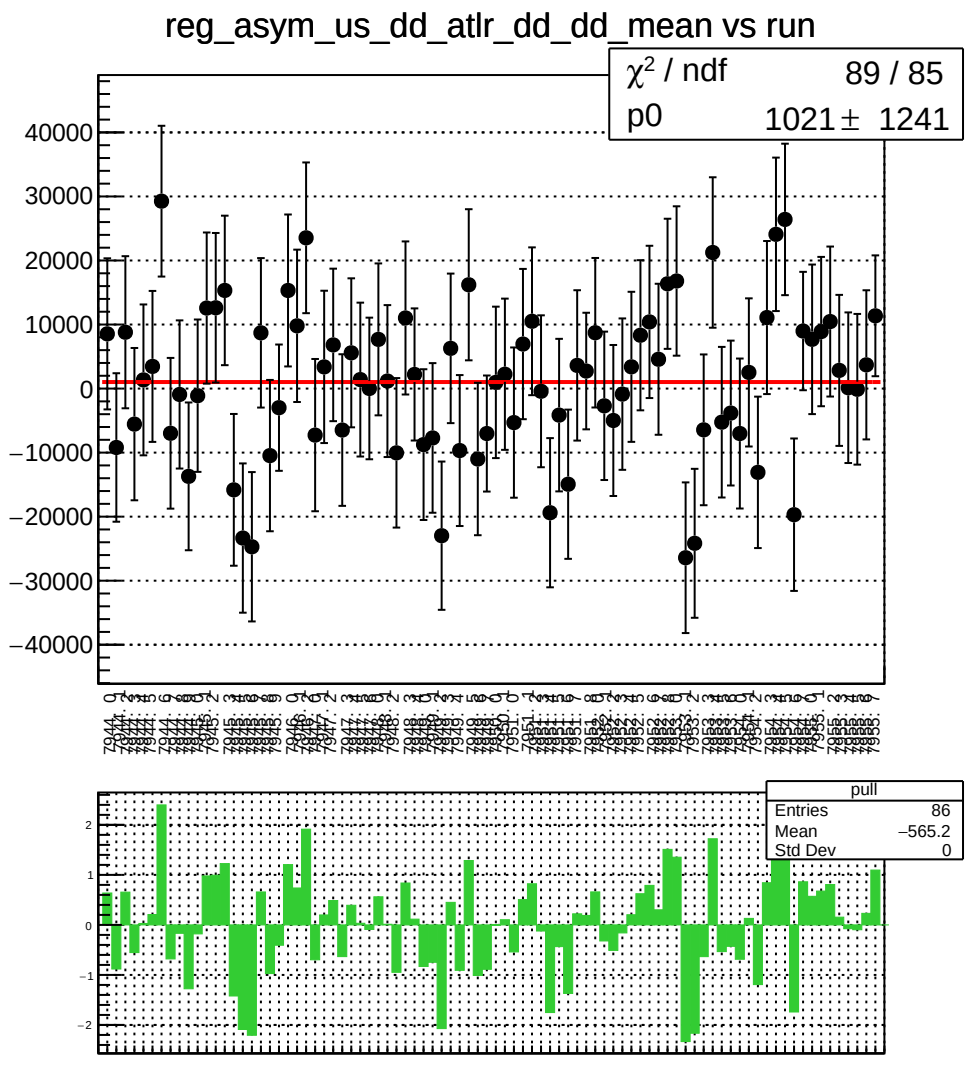

pull1D
Entries 86
Mean −0.01108
Std Dev 0.8765

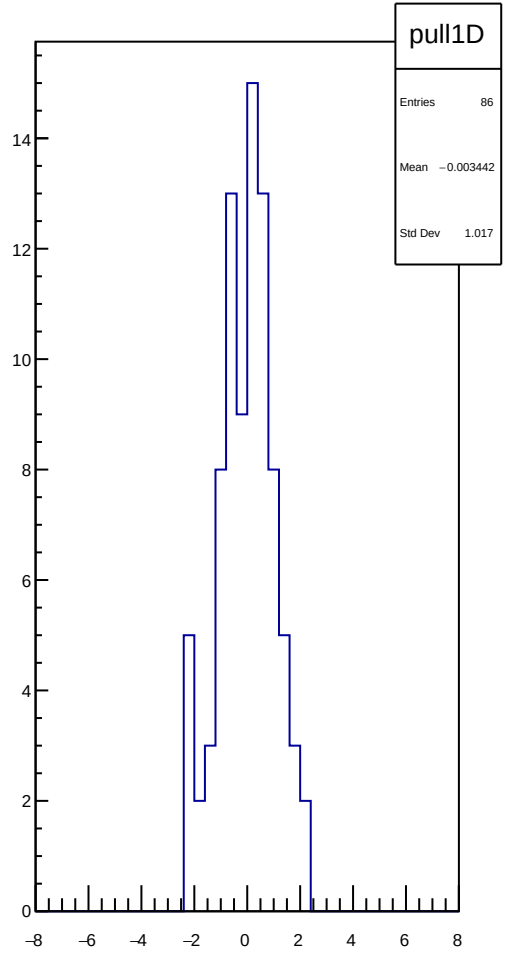

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.628e+04 / 85
p0 95.18 ± 0.07662
200
180
160
140
120
100
80
60

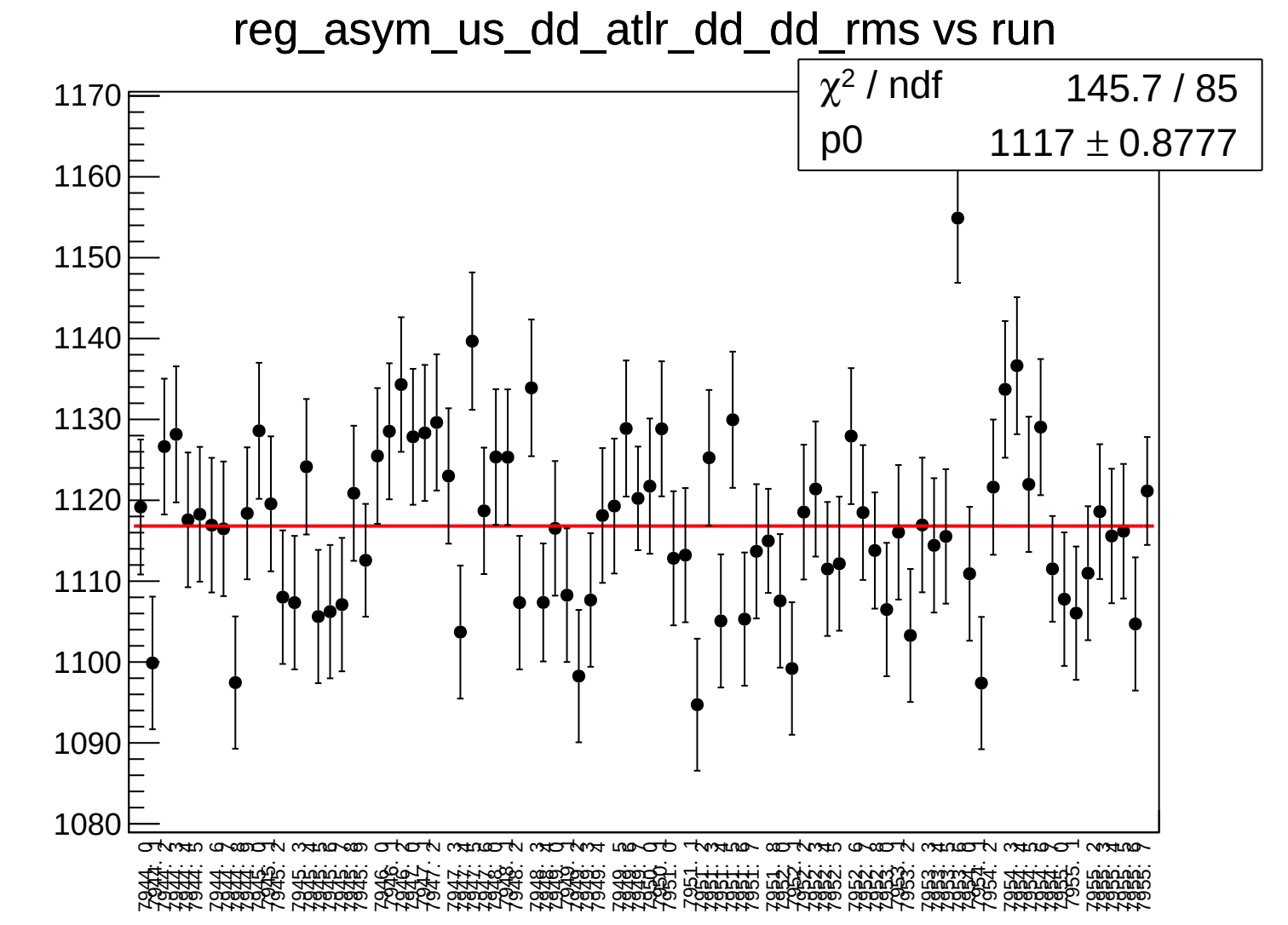

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.95 / 85
p0 2.879e−13 ± 3.422e−13
30
20
10
0
−10
−20
pull
Entries 86
Mean 24.7
Std Dev 18.21
2
1
0
−1
−2

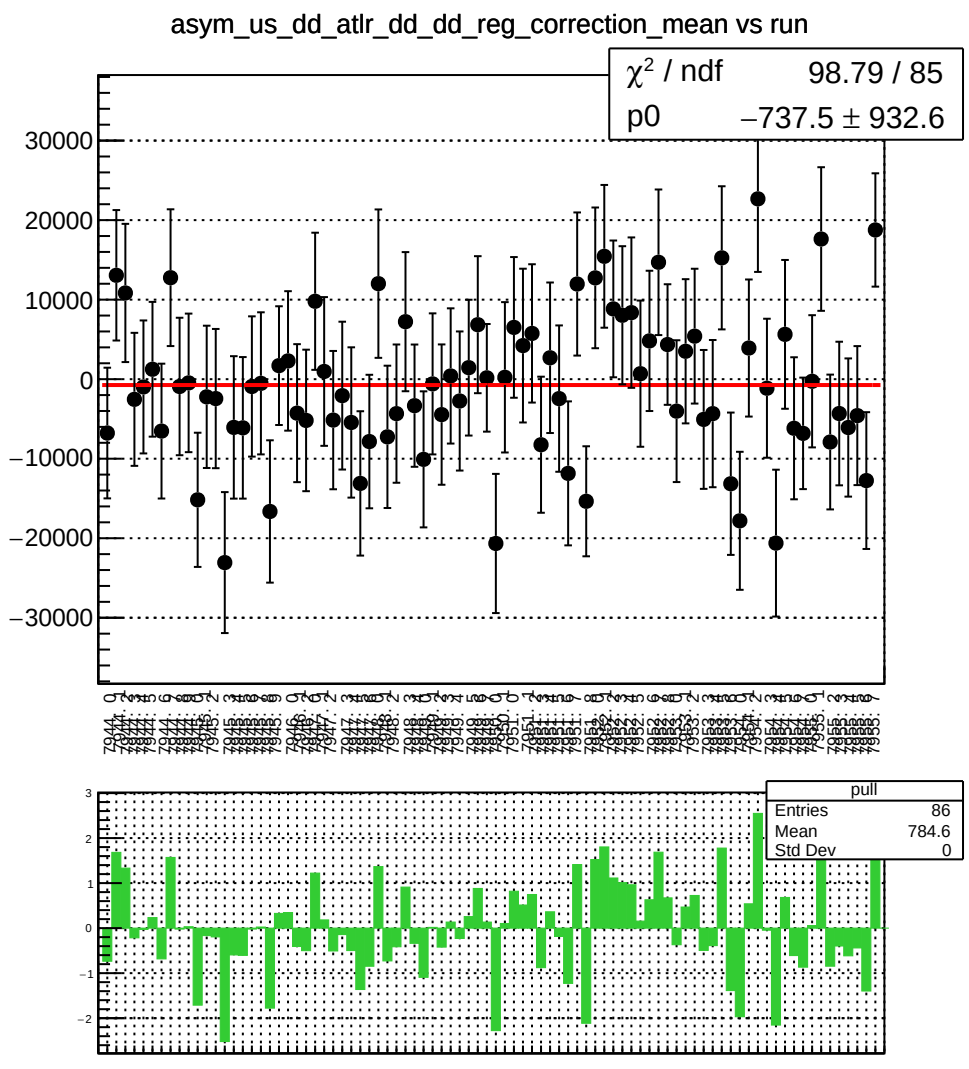

pull1D
Entries 86
Mean −0.04178
Std Dev 0.8945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

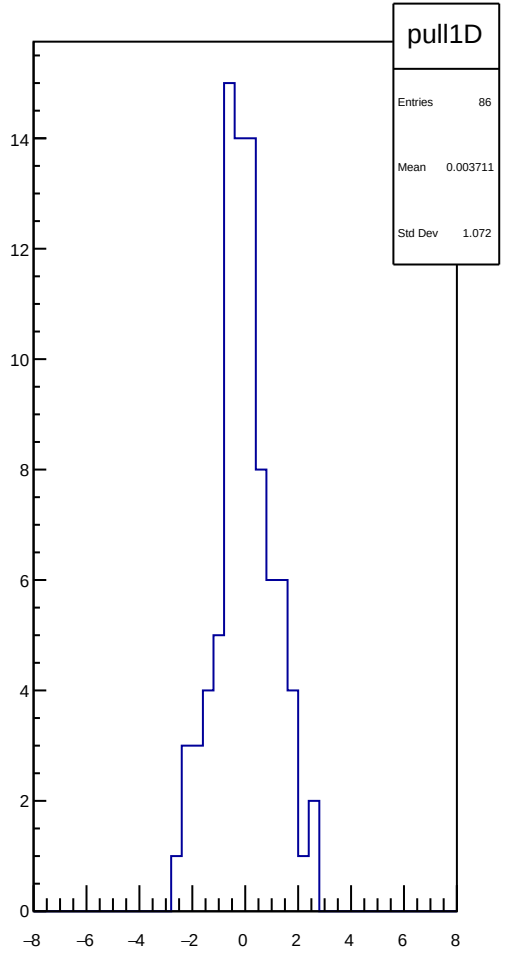

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.459e+05 / 85
p0 2.507e−10 ± 2.419e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

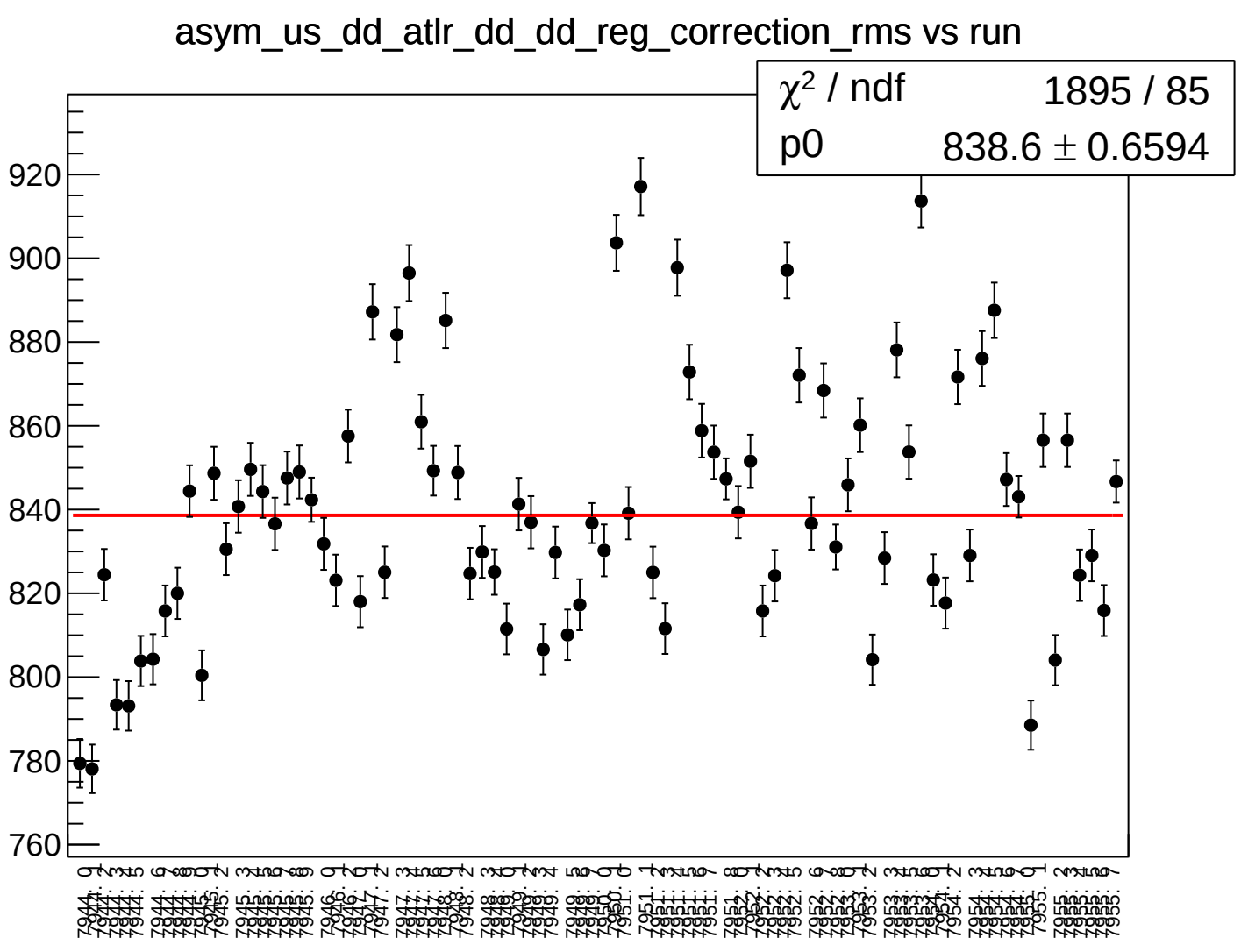

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 89 / 85
p0 1021 ± 1241
pull
Entries 86
Mean −565.2
Std Dev 0

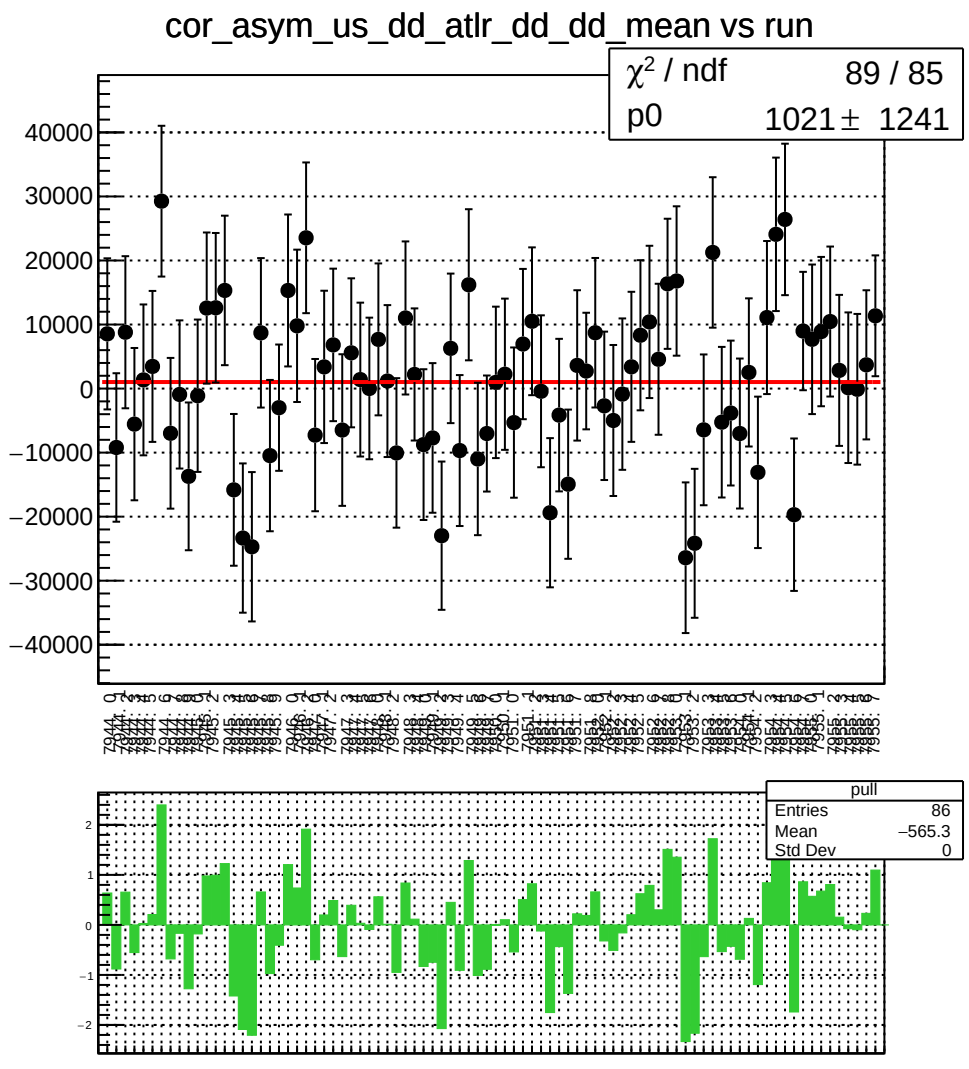

pull1D
Entries 86
Mean −0.003442
Std Dev 1.017

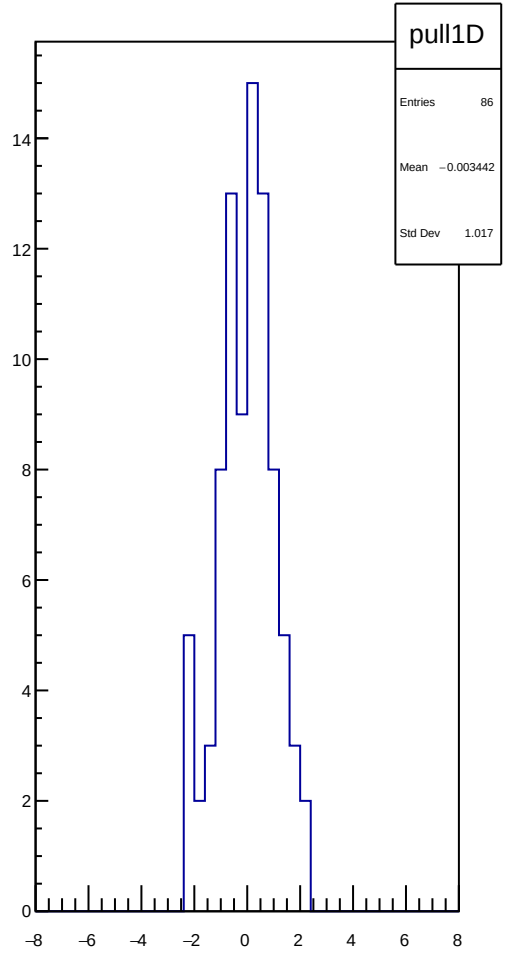

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 145.7 / 85
p0 1117 ± 0.8777
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080

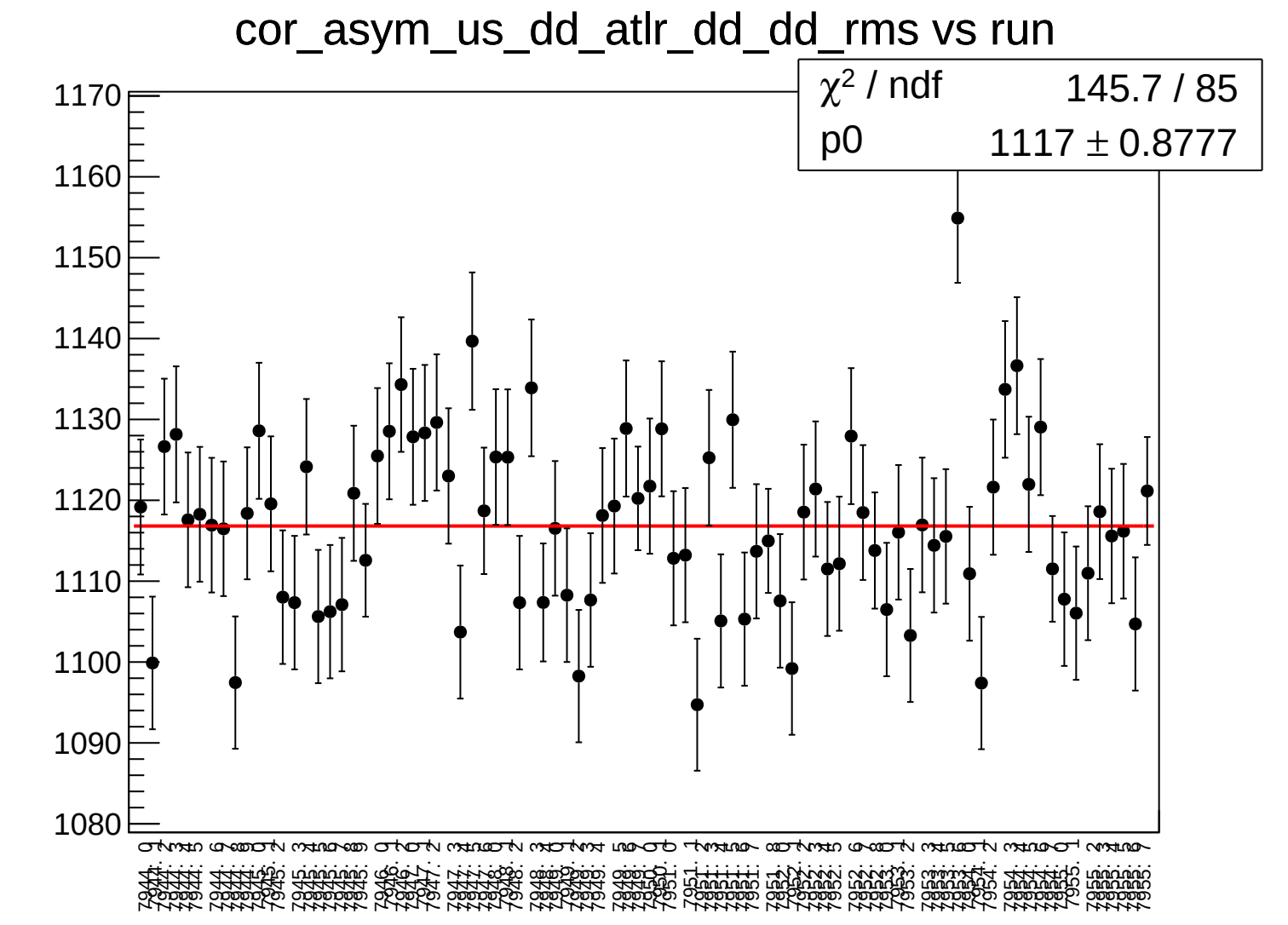

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 98.79 / 85
p0 −737.5 ± 932.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 784.6
Std Dev 0
3
2
1
0
−1
−2

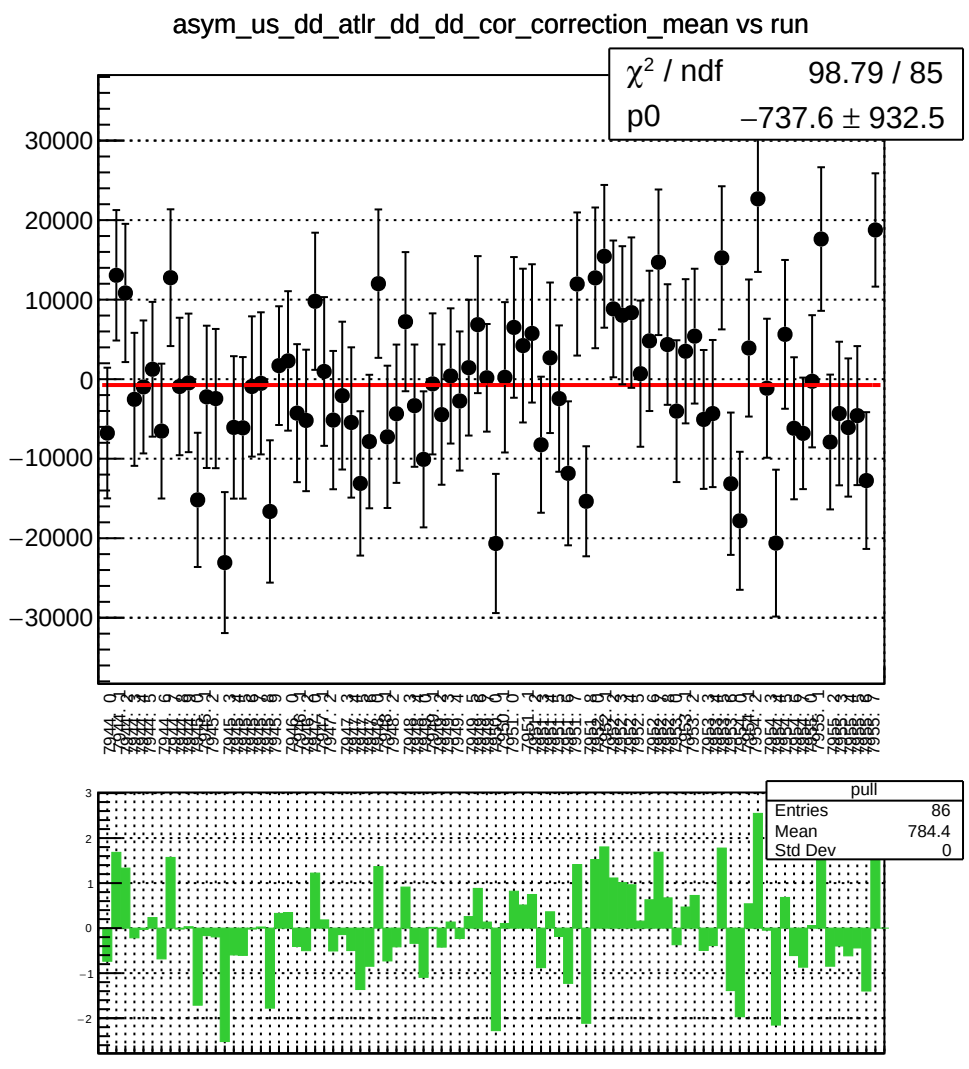

pull1D
Entries 86
Mean 0.003711
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

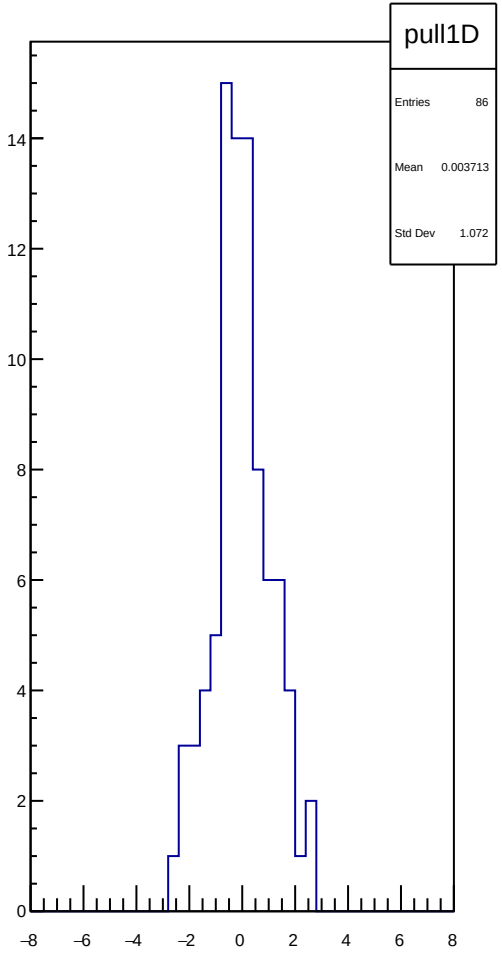

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1895 / 85
p0 838.6 ± 0.6594
920
900
880
860
840
820
800
780
760

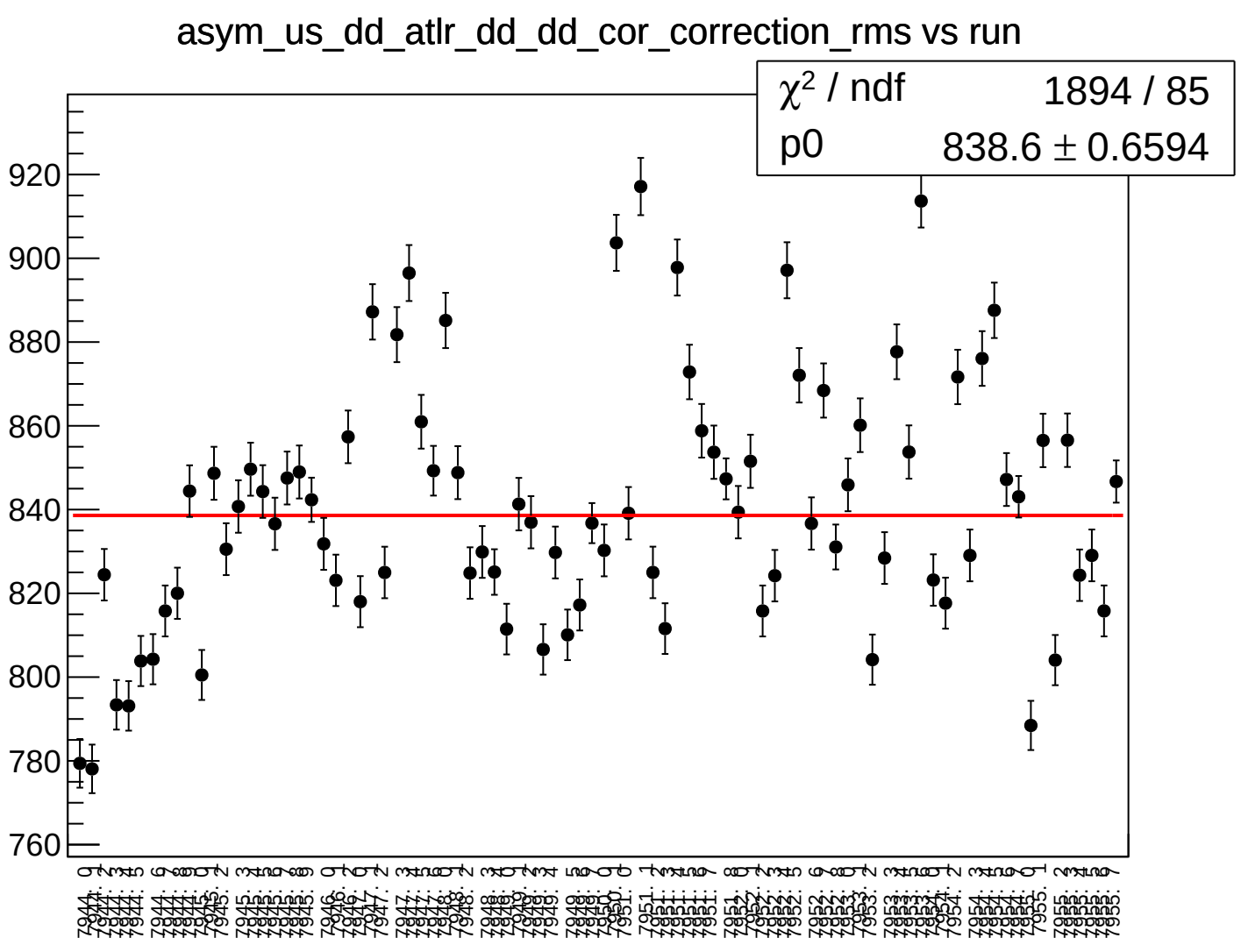

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 89 / 85
p0 1021 ± 1241
pull
Entries 86
Mean −565.3
Std Dev 0

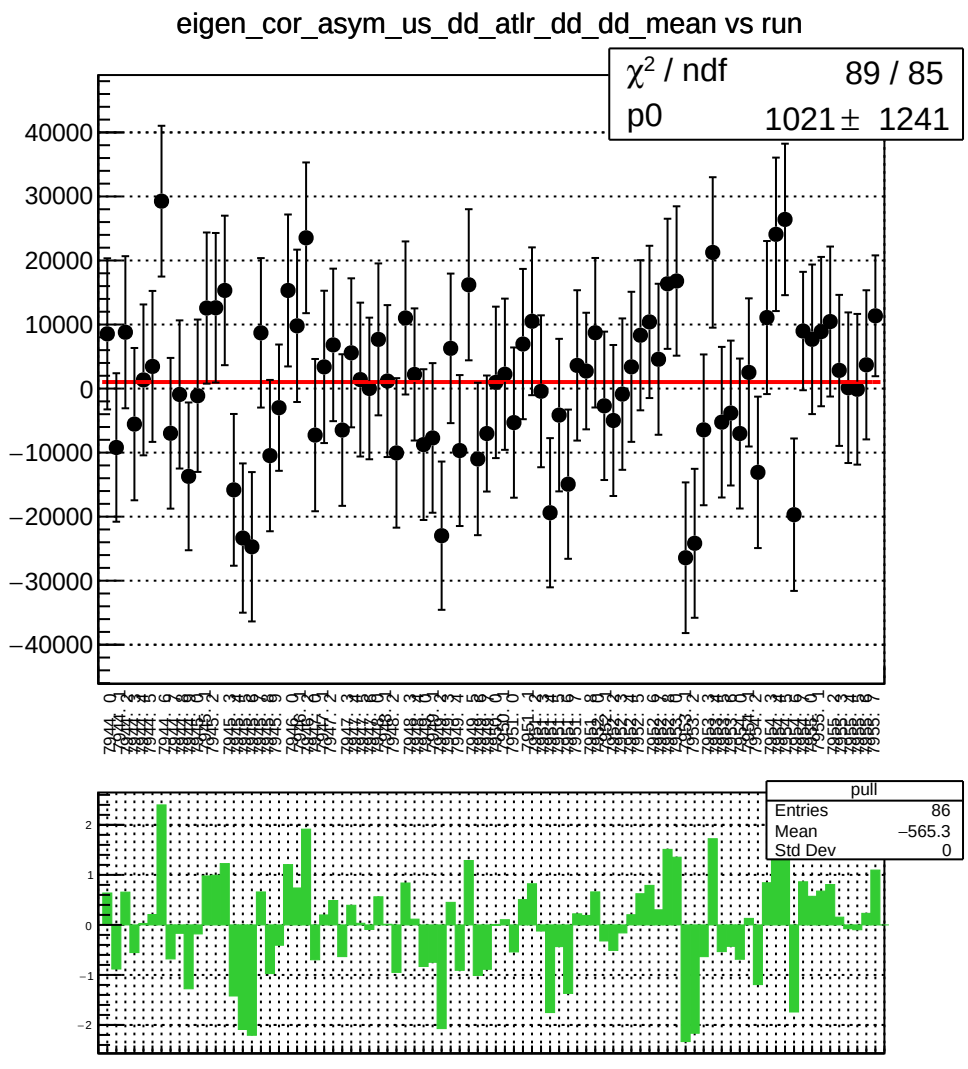

pull1D
Entries 86
Mean −0.003442
Std Dev 1.017

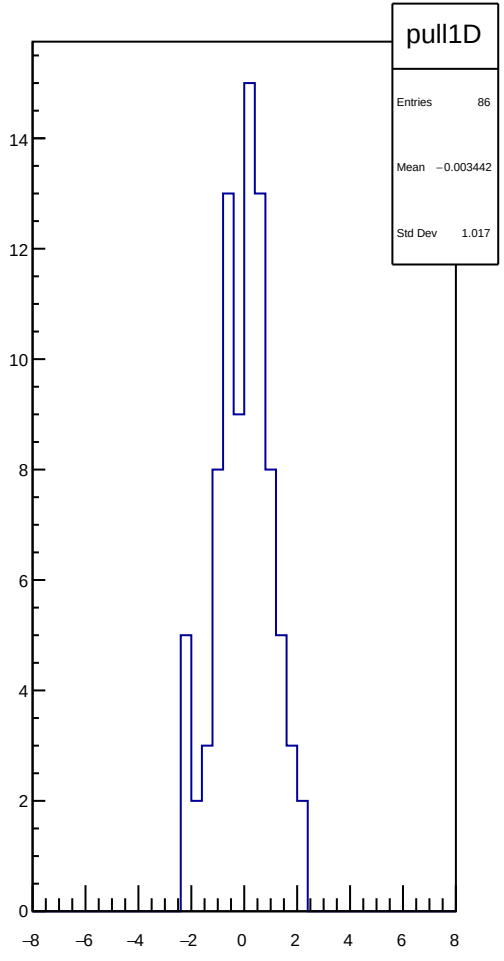

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 145.7 / 85
p0 1117 ± 0.8777
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080

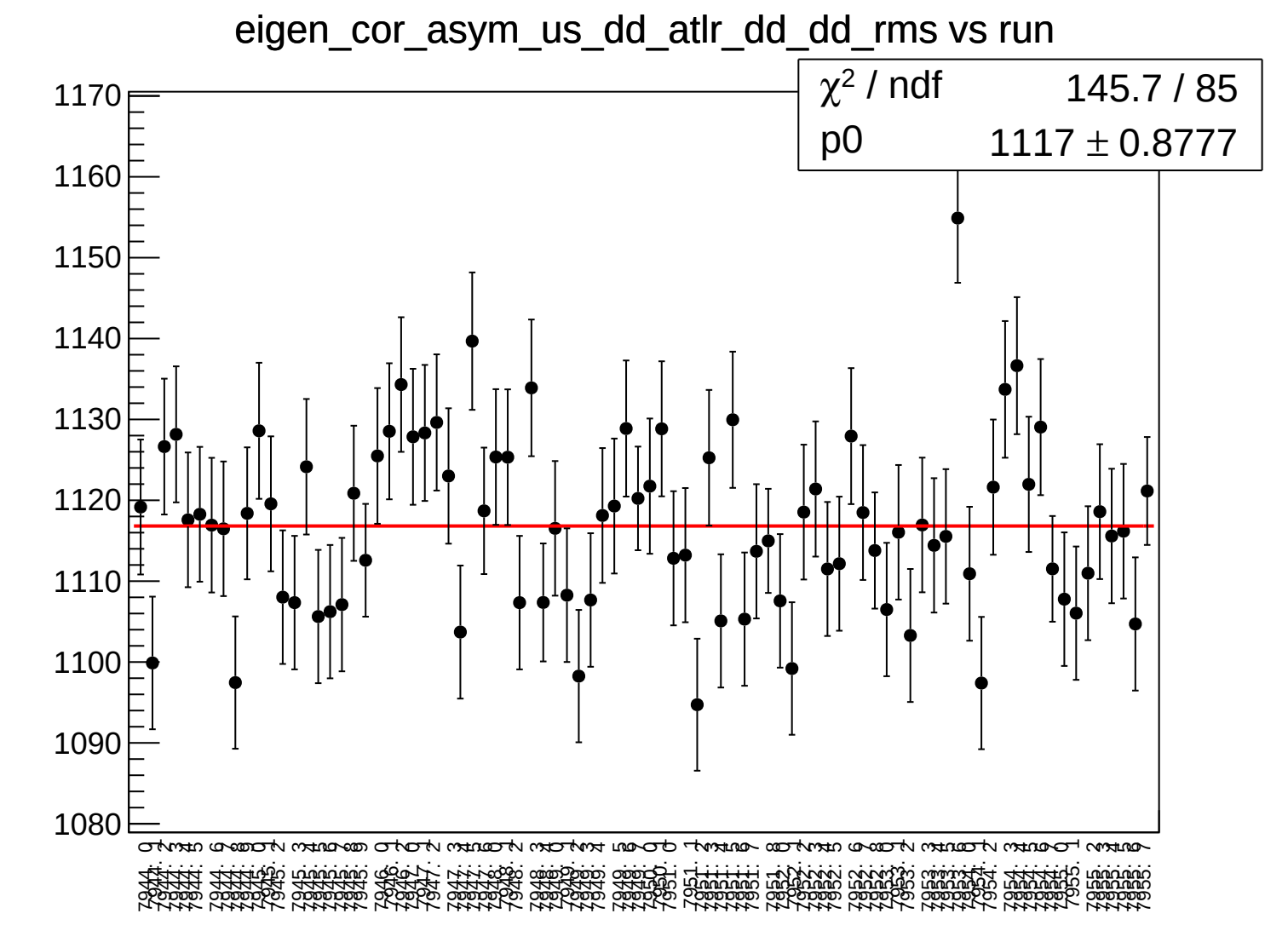

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 98.79 / 85
p0 −737.6 ± 932.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 784.4
Std Dev 0
3
2
1
0
−1
−2

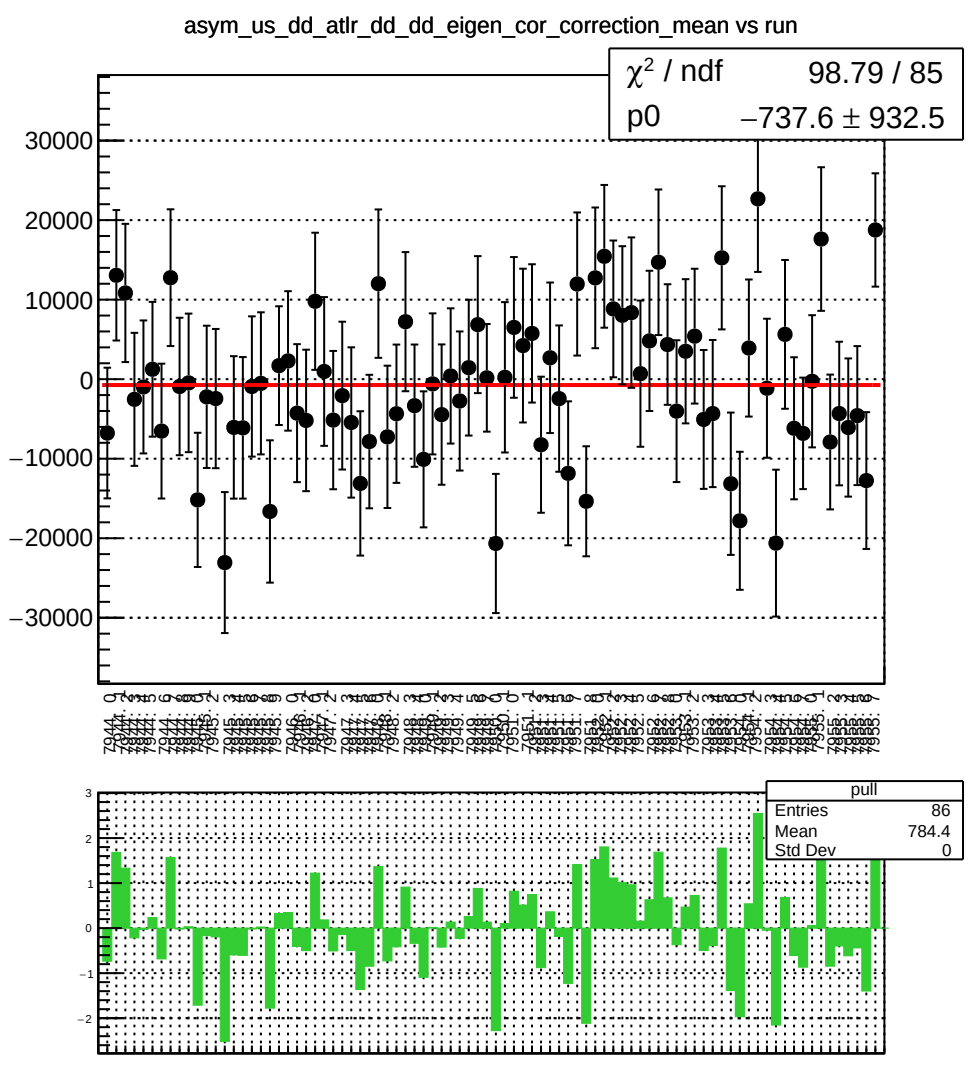

pull1D
Entries 86
Mean 0.003713
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

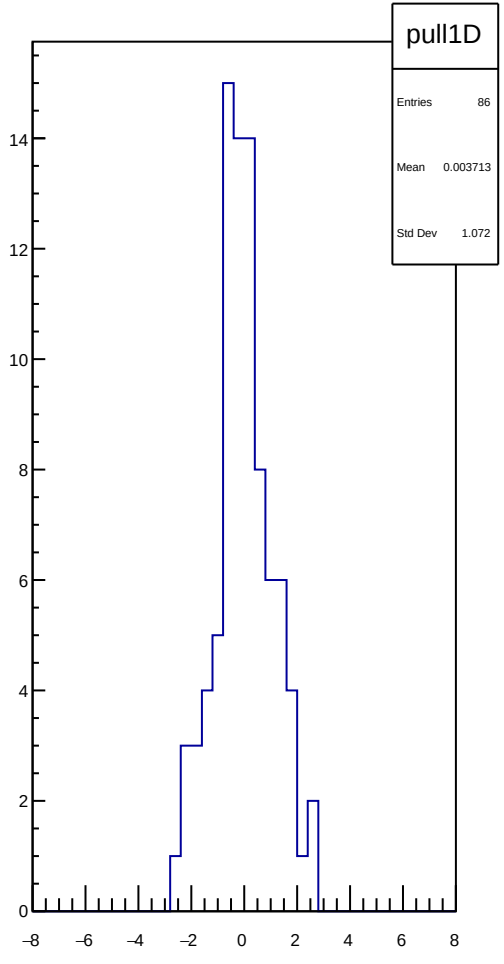

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1894 / 85
p0 838.6 ± 0.6594
920
900
880
860
840
820
800
780
760

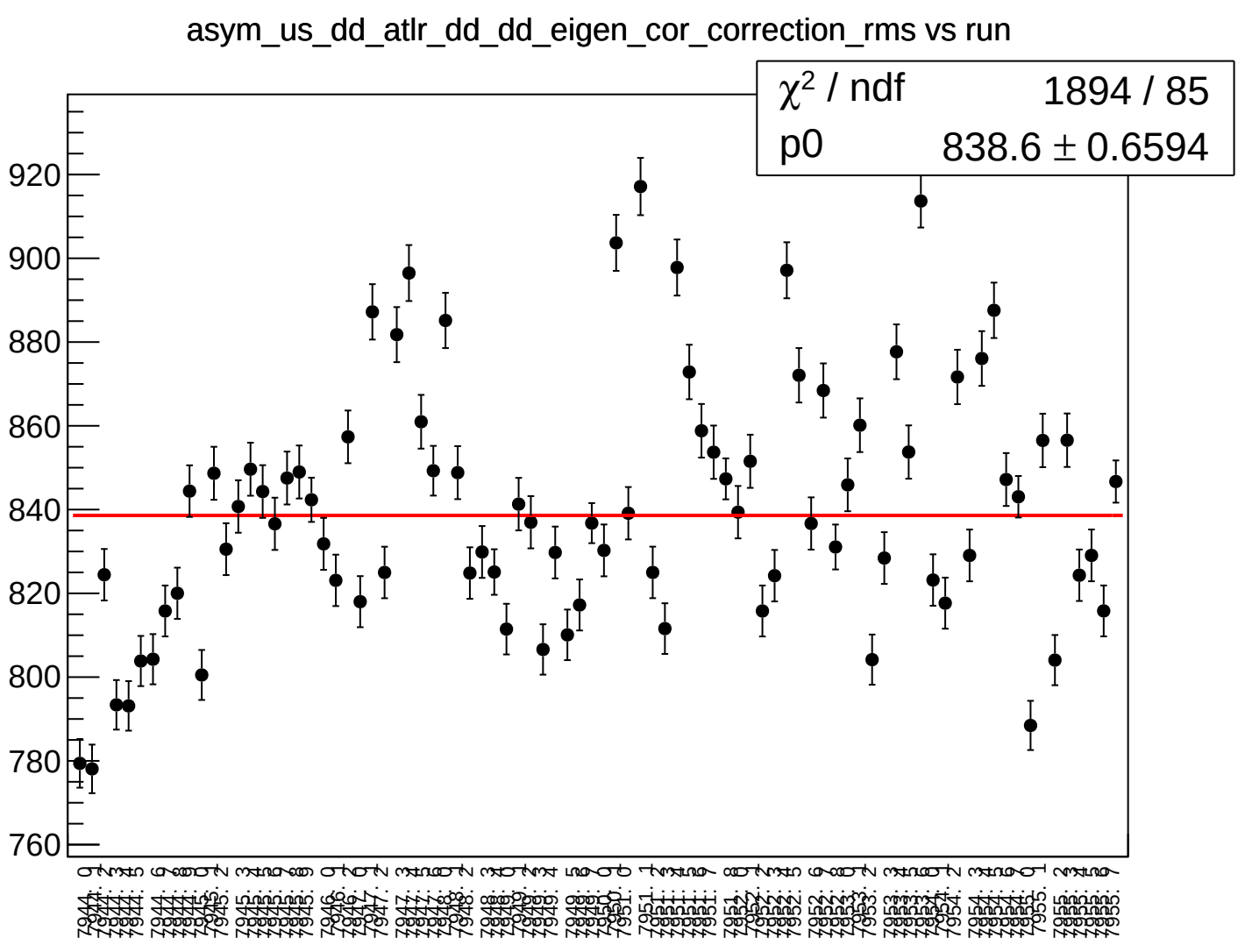

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 89 / 85
p0 1021 ± 1241
pull
Entries 86
Mean −565.3
Std Dev 0

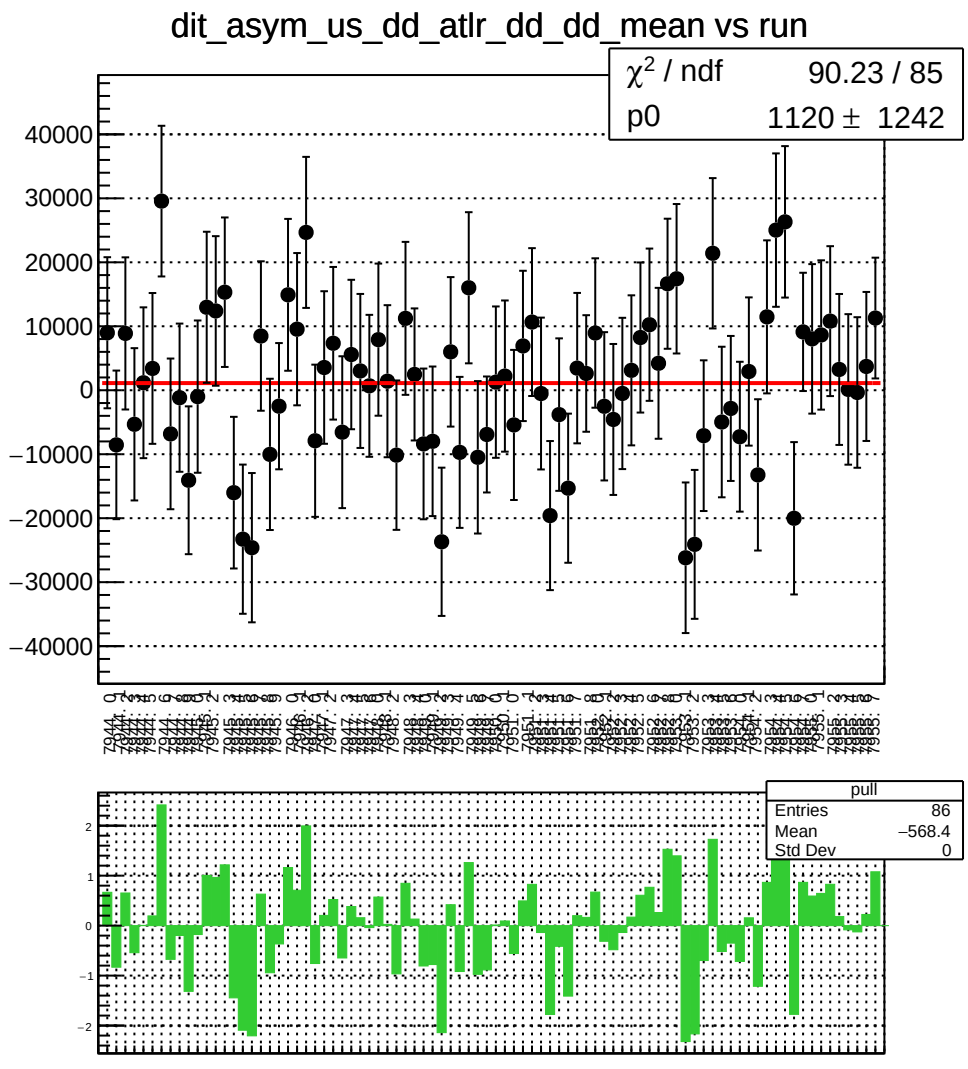

pull1D
Entries 86
Mean −0.003442
Std Dev 1.017

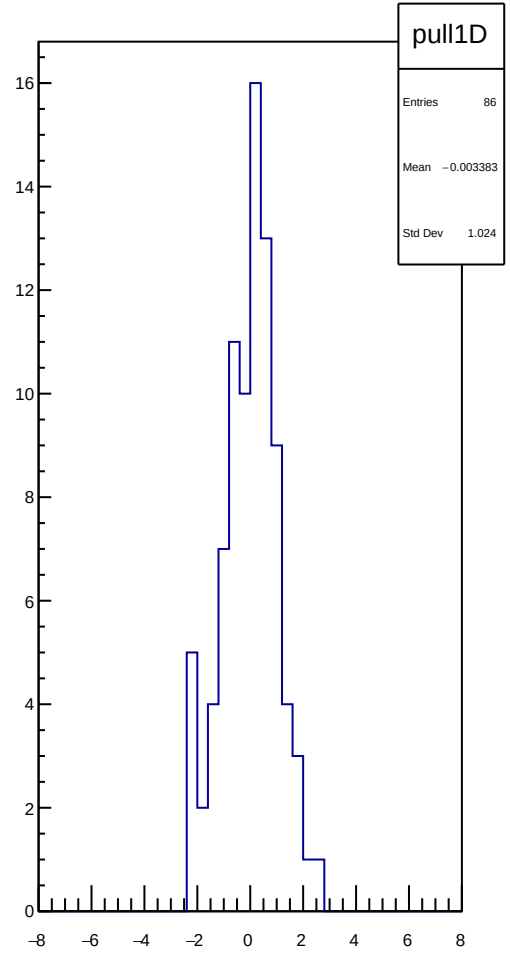

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 145.7 / 85
p0 1117 ± 0.8777
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080

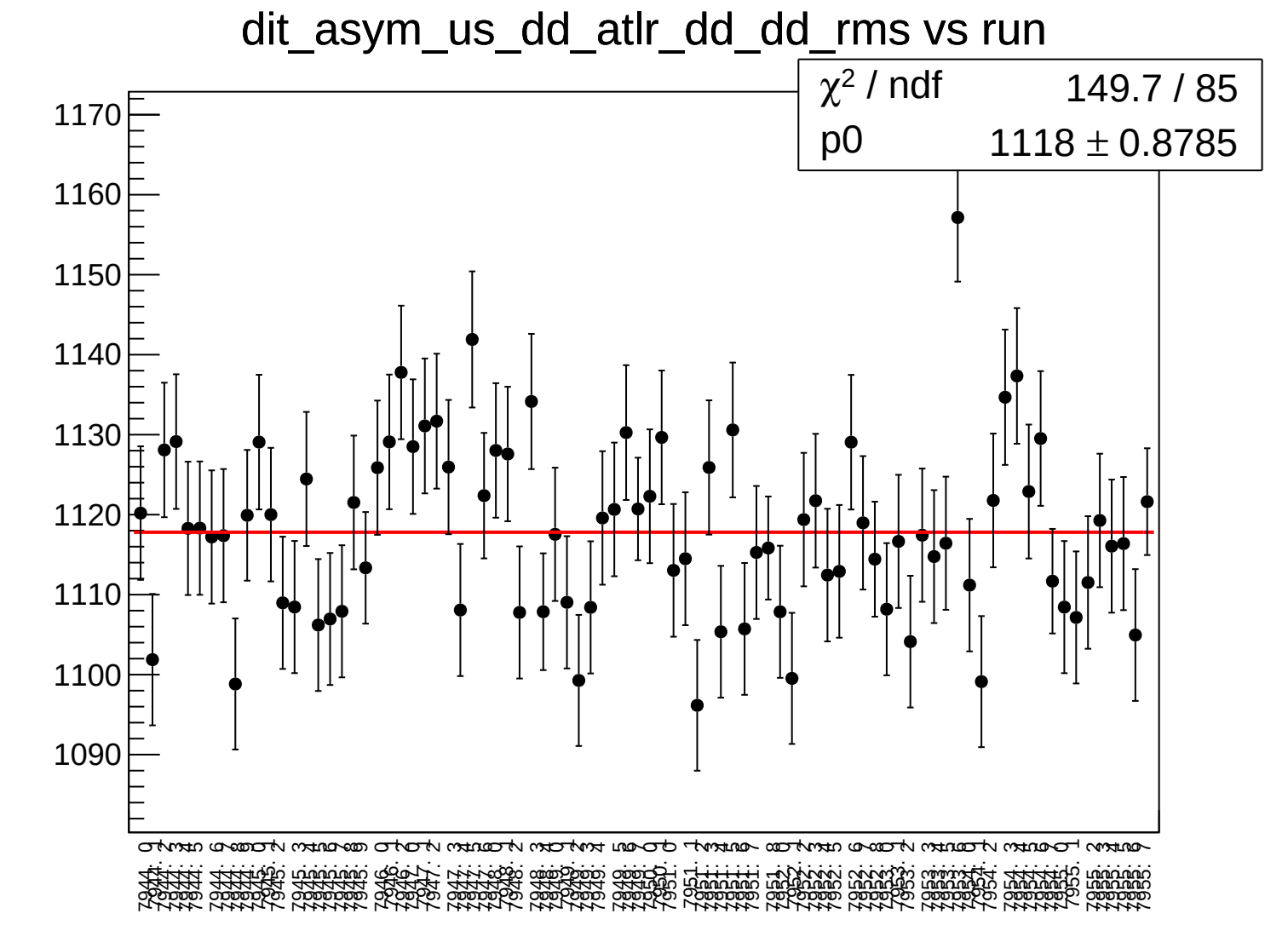

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.79 / 85
p0 −737.6 ± 932.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 784.4
Std Dev 0
3
2
1
0
−1
−2

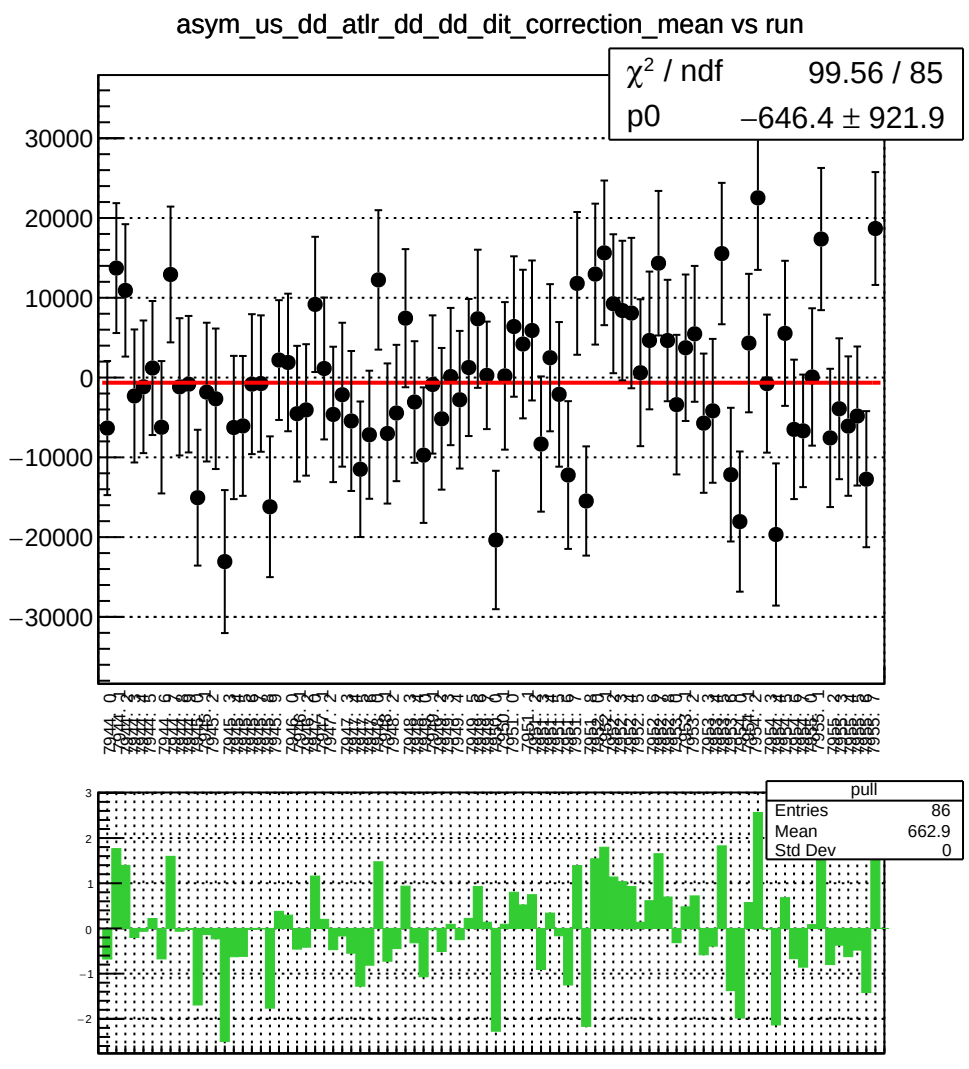

pull1D
Entries 86
Mean 0.003713
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

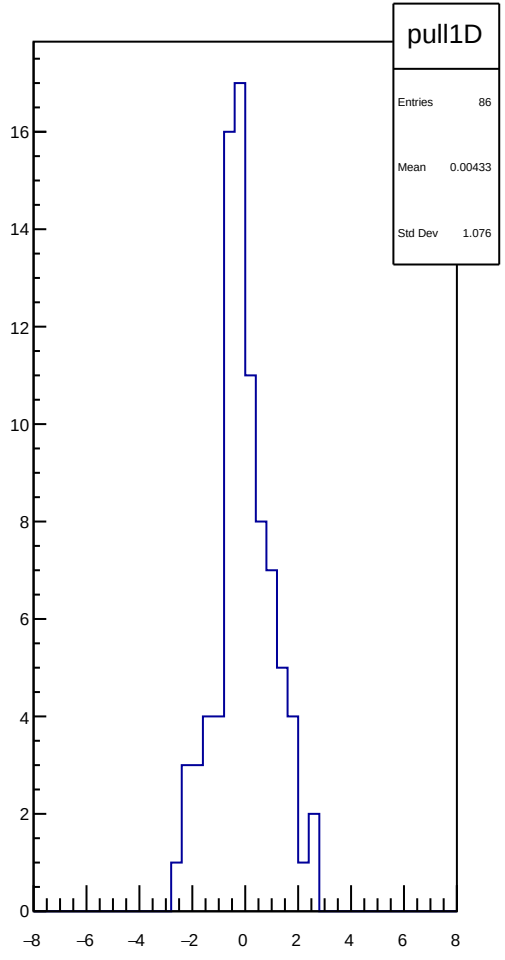

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1894 / 85
p0 838.6 ± 0.6594
920
900
880
860
840
820
800
780
760

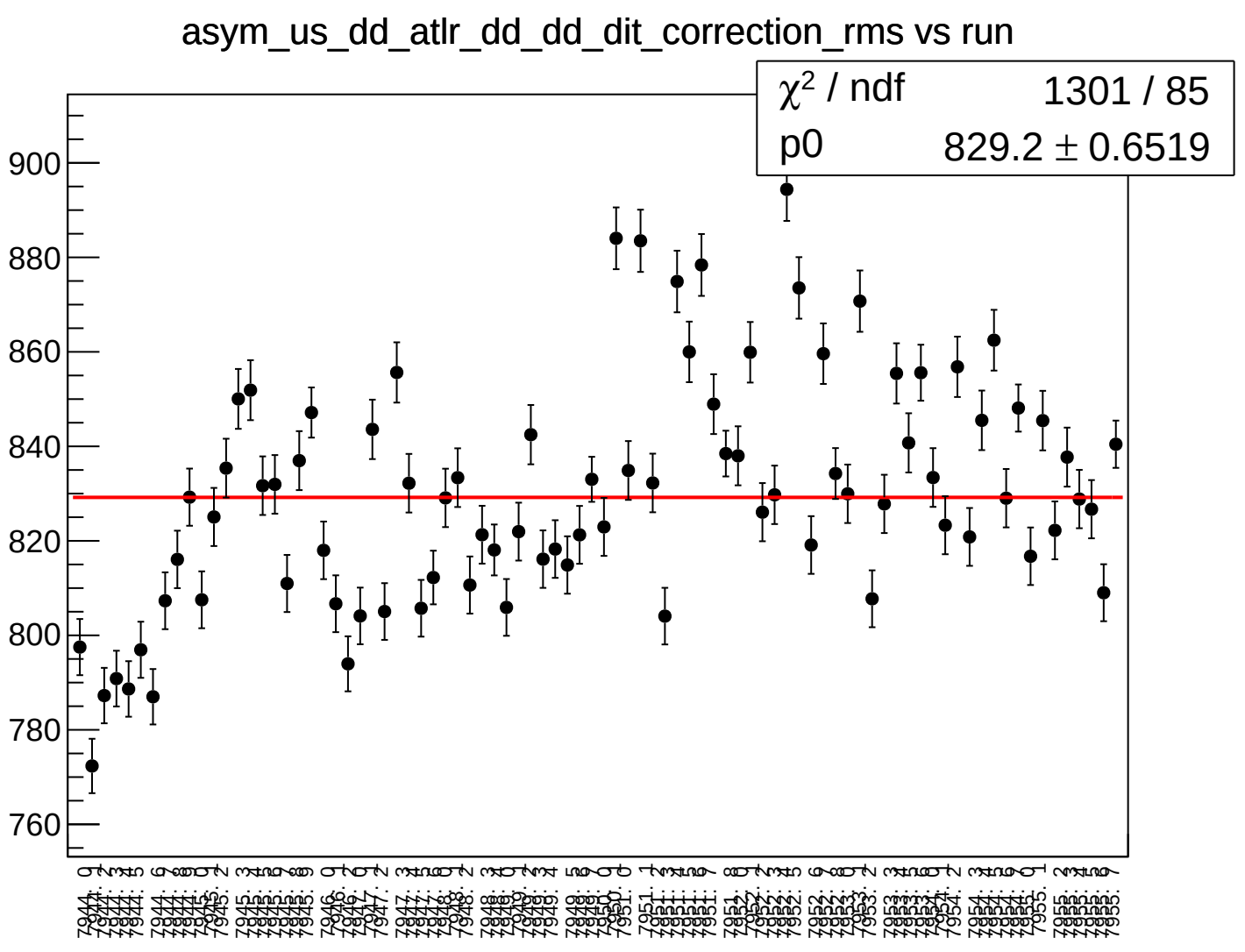

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.23 / 85
p0 1120 ± 1242
pull
Entries 86
Mean −568.4
Std Dev 0

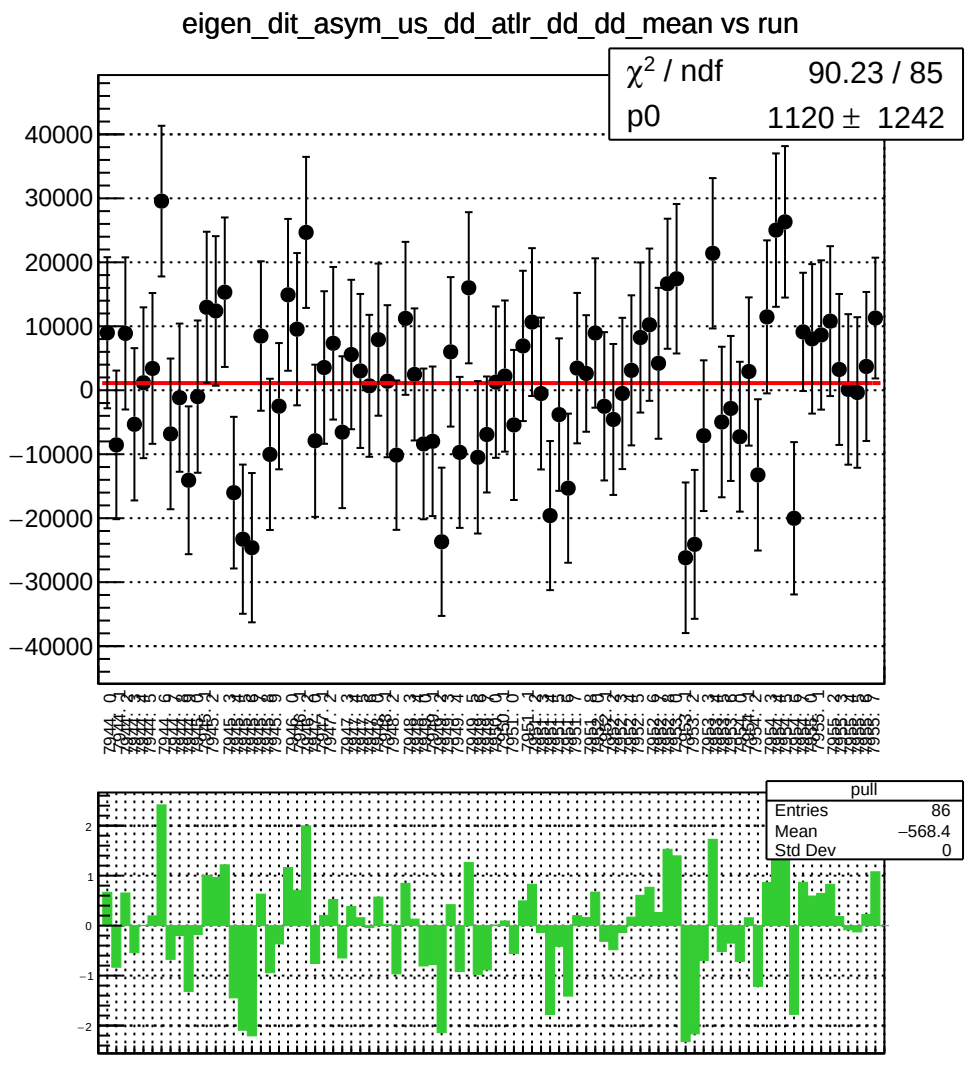

pull1D
Entries 86
Mean −0.003383
Std Dev 1.024

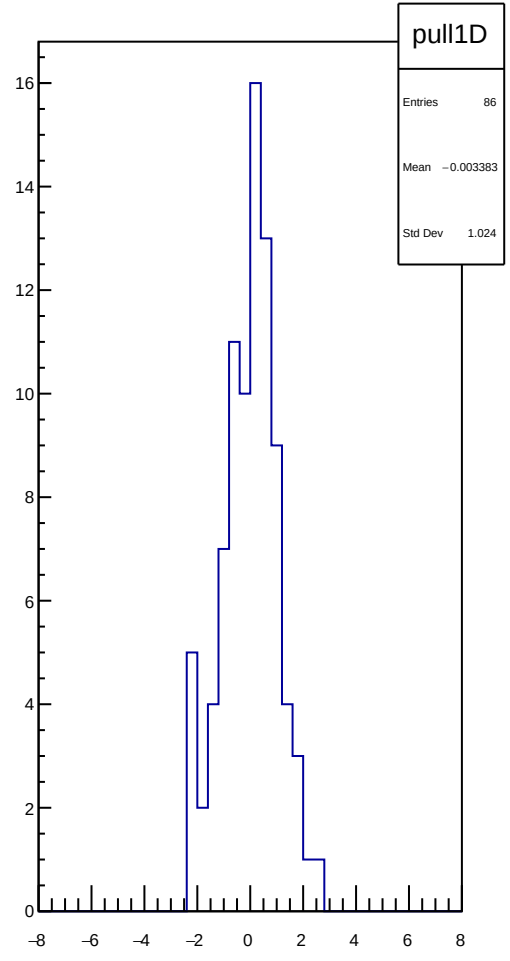

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 149.7 / 85
p0 1118 ± 0.8785
1170
1160
1150
1140
1130
1120
1110
1100
1090

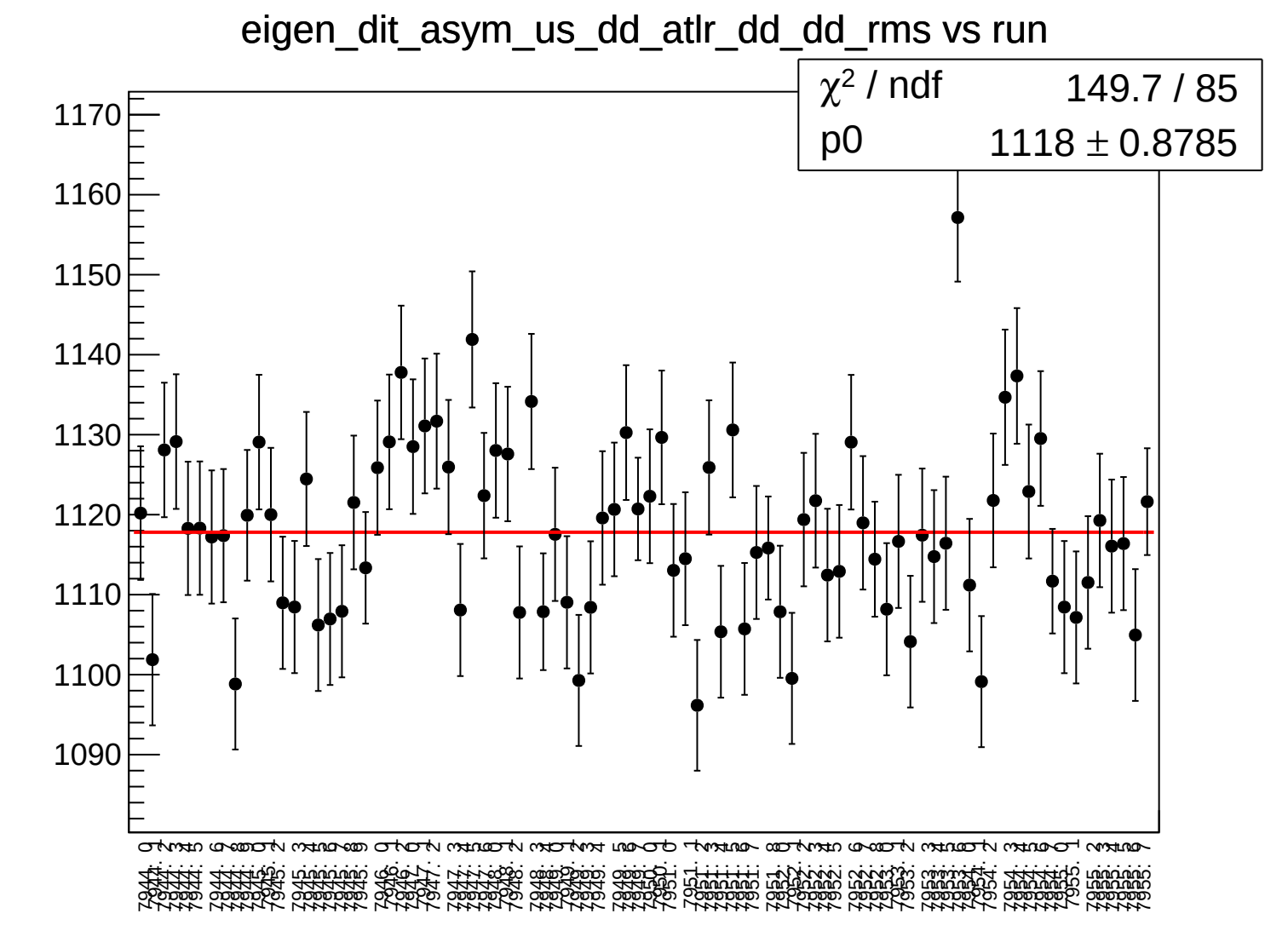

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 99.56 / 85
p0 −646.4 ± 921.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 662.9
Std Dev 0
3
2
1
0
−1
−2

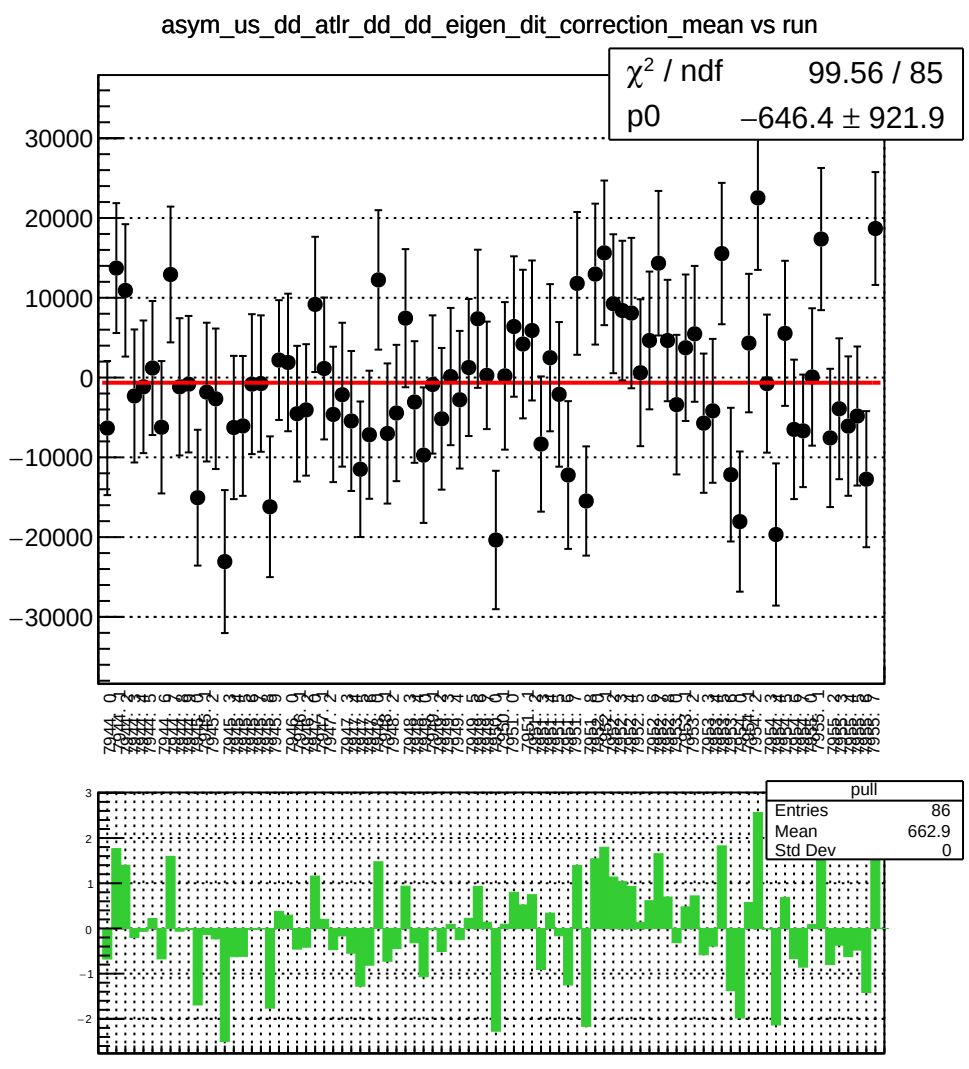

pull1D
Entries 86
Mean 0.00433
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

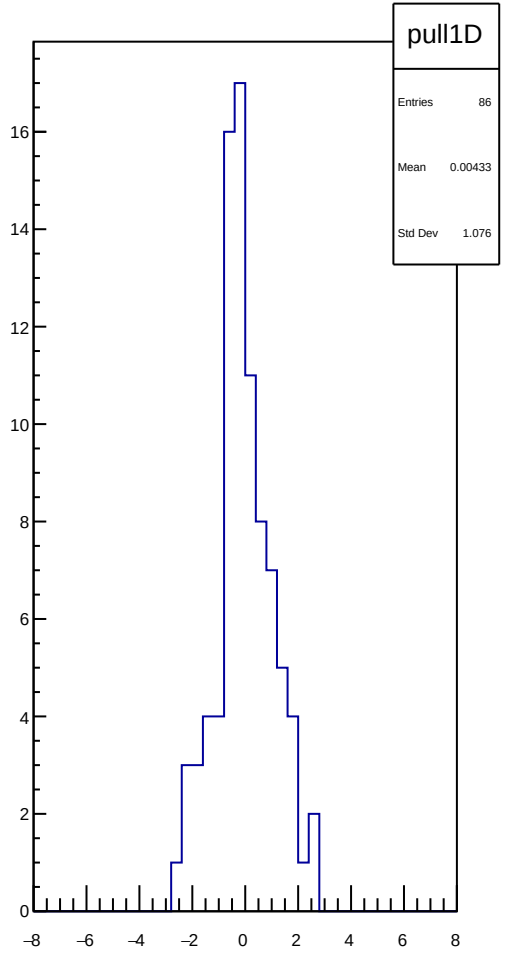

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1301 / 85
p0 829.2 ± 0.6519
900
880
860
840
820
800
780
760

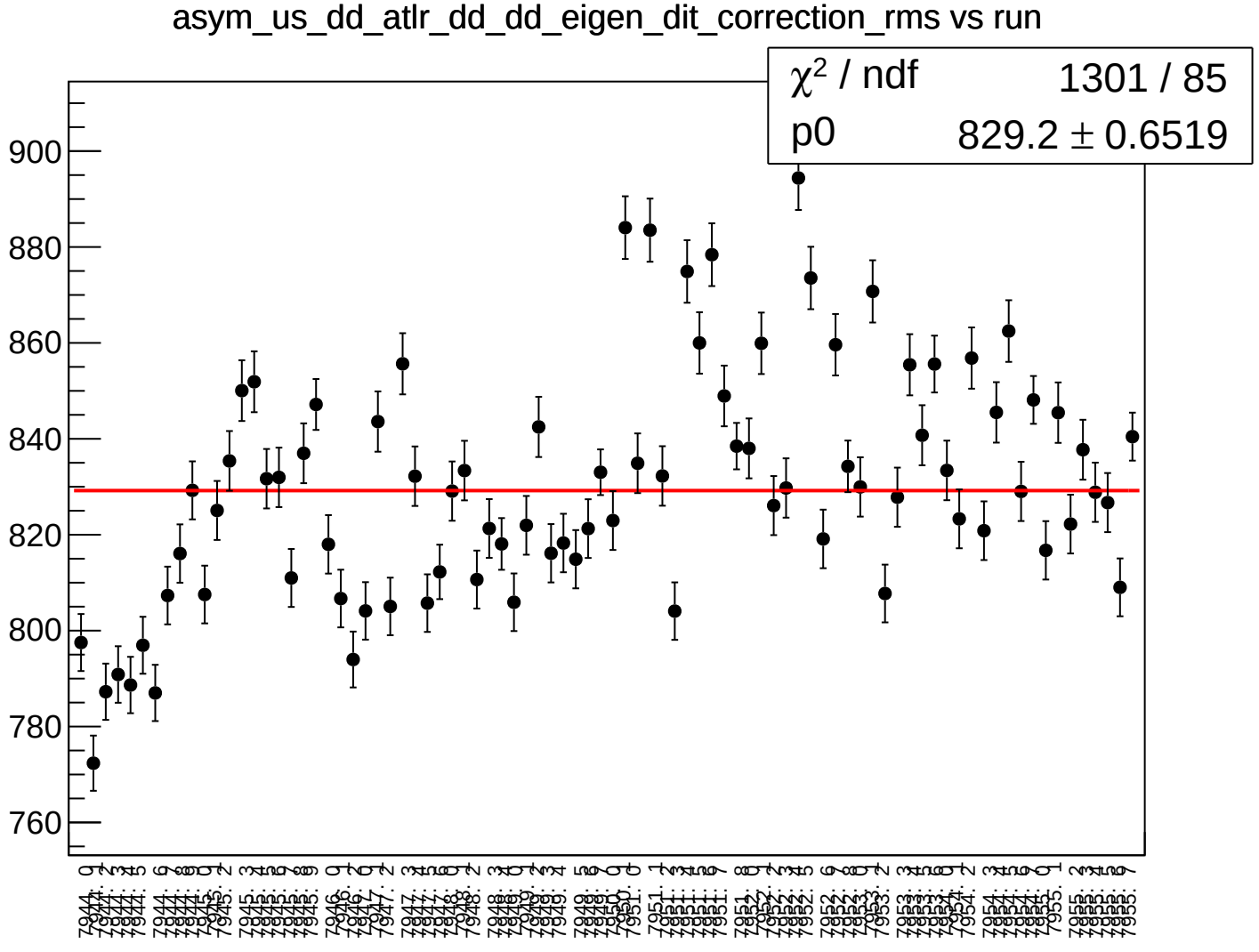

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.23 / 85
p0 1120 ± 1242
pull
Entries 86
Mean −568.4
Std Dev 0

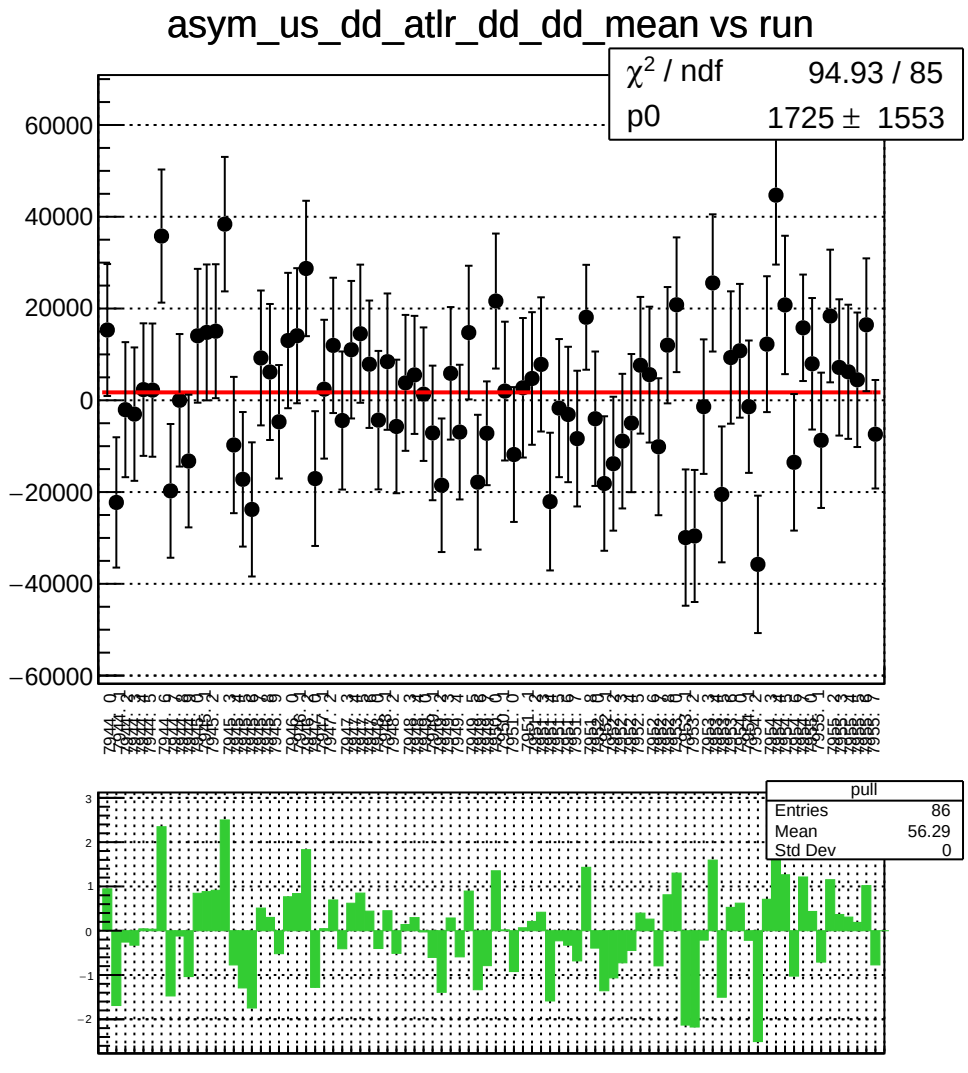

pull1D
Entries 86
Mean −0.003383
Std Dev 1.024

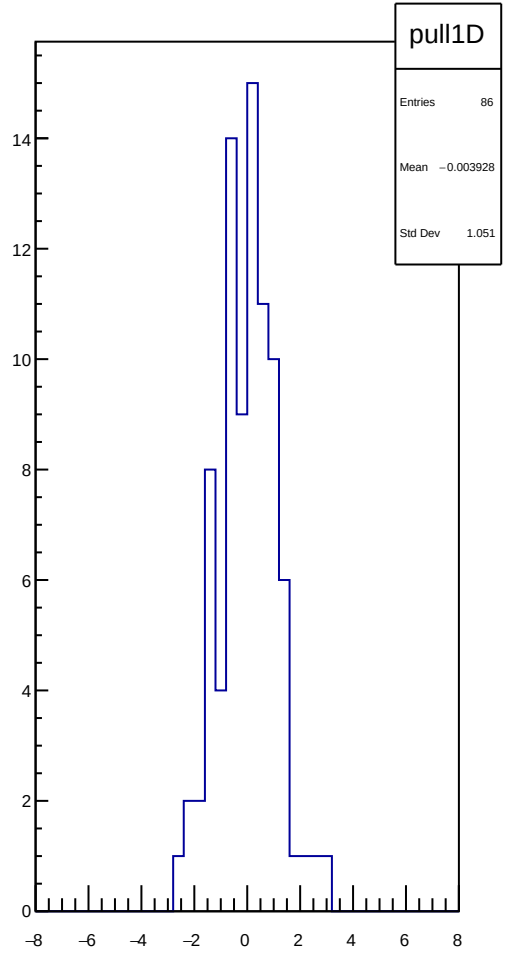

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 149.7 / 85
p0 1118 ± 0.8785
1170
1160
1150
1140
1130
1120
1110
1100
1090

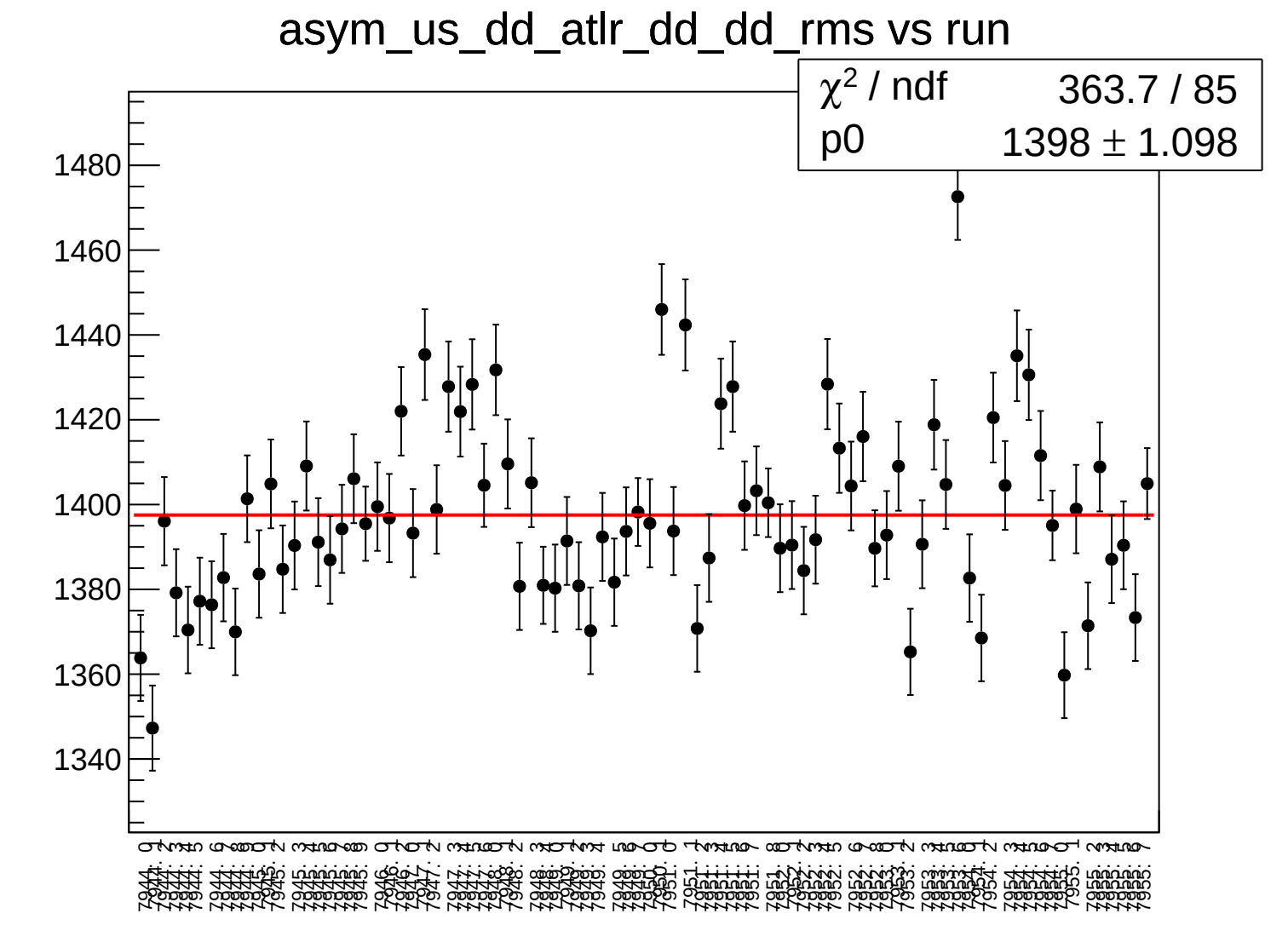

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.56 / 85
p0 −646.4 ± 921.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 662.9
Std Dev 0
3
2
1
0
−1
−2

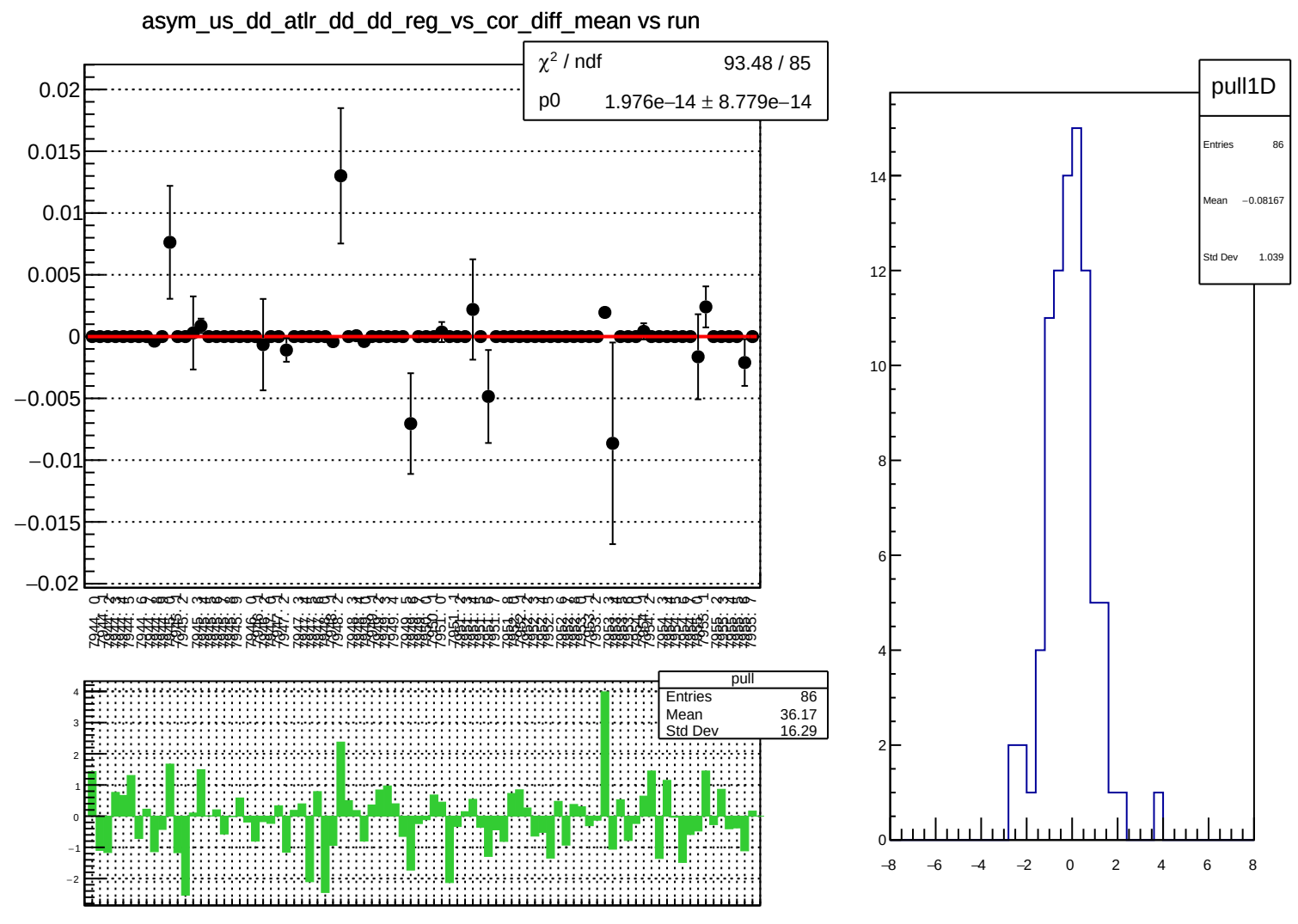

pull1D
Entries 86
Mean 0.00433
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

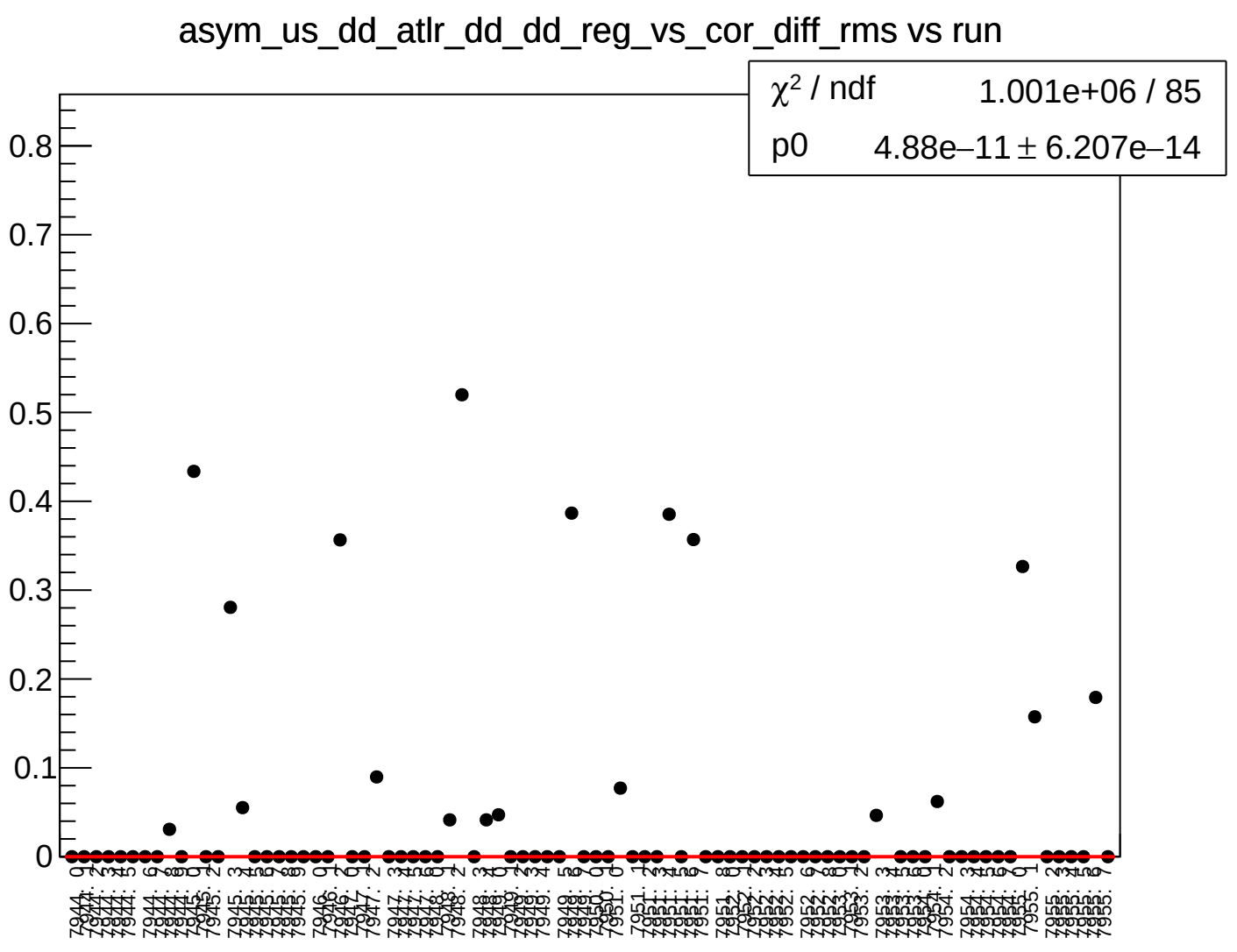

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1301 / 85
p0 829.2 ± 0.6519
900
880
860
840
820
800
780
760

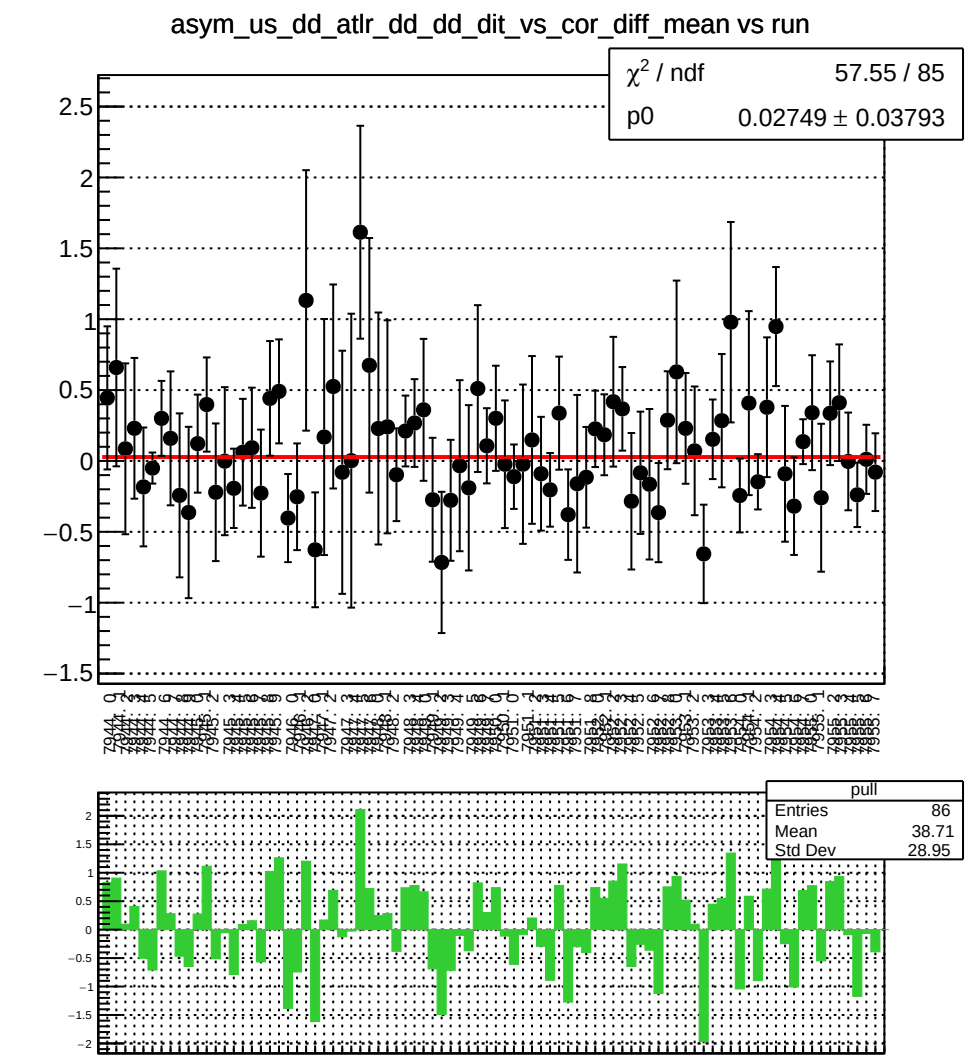

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 94.93 / 85
p0 1725 ± 1553
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 56.29
Std Dev 0
3
2
1
0
−1
−2

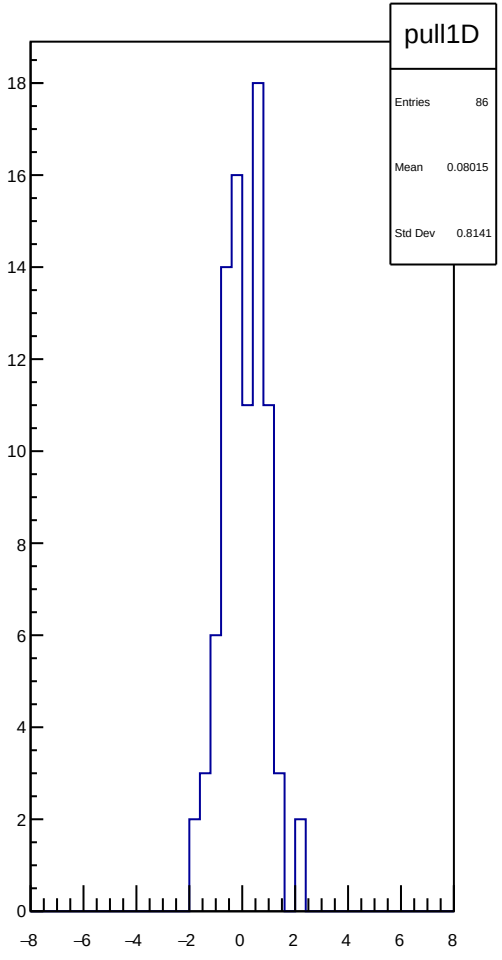

pull1D
Entries 86
Mean −0.003928
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

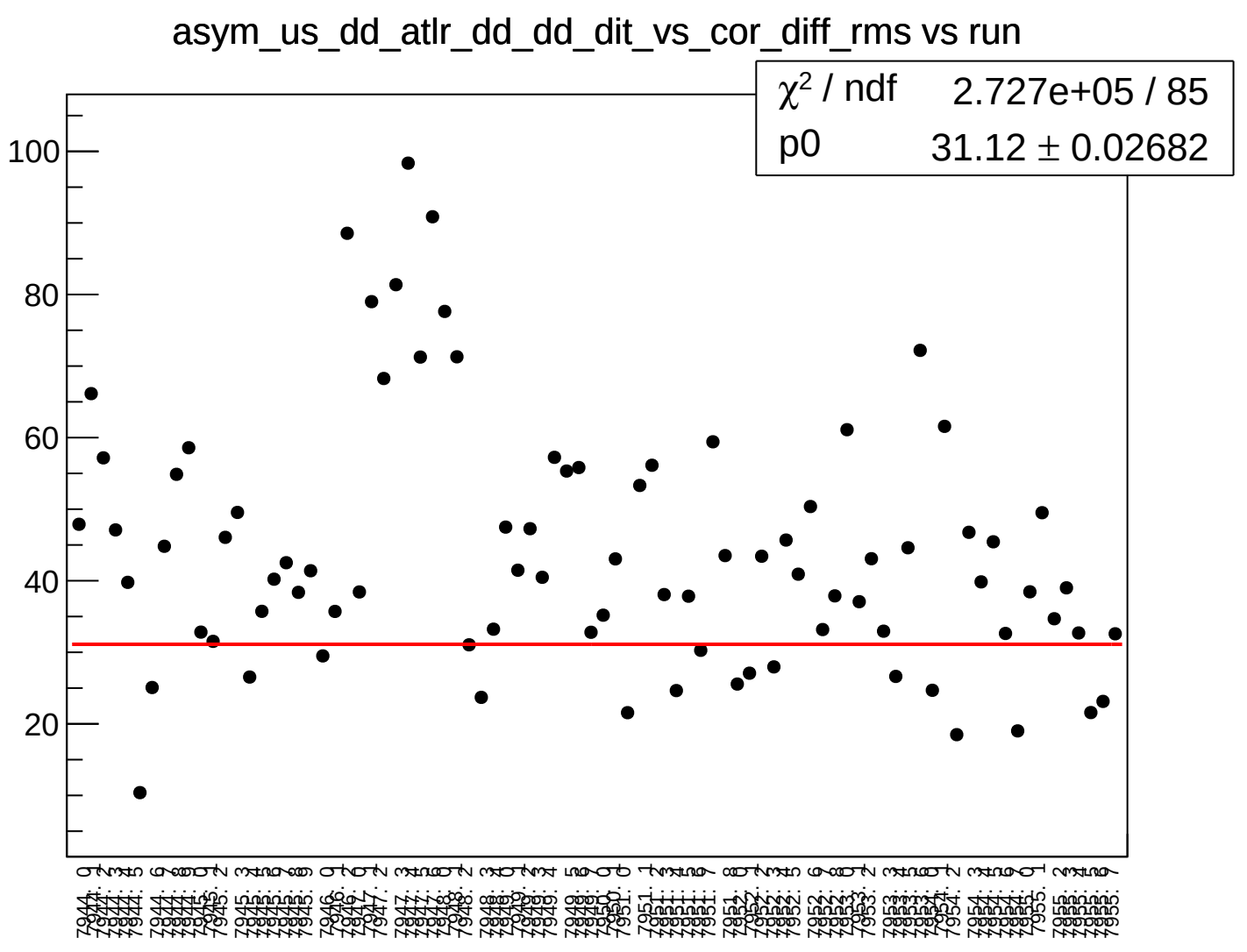

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 363.7 / 85
p0 1398 ± 1.098
1480
1460
1440
1420
1400
1380
1360
1340

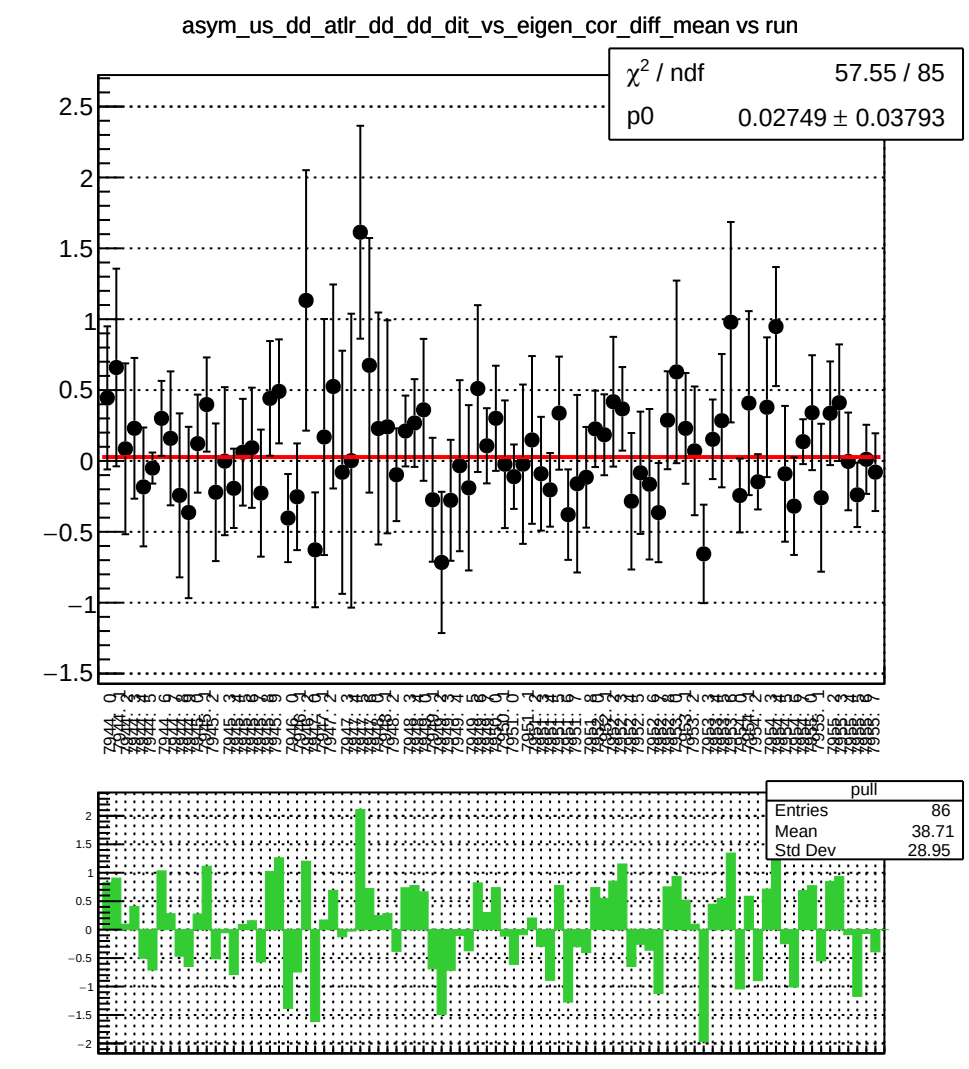

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.48 / 85
p0 1.976e−14 ± 8.779e−14
pull
Entries 86
Mean 36.17
Std Dev 16.29
pull1D
Entries 86
Mean −0.08167
Std Dev 1.039

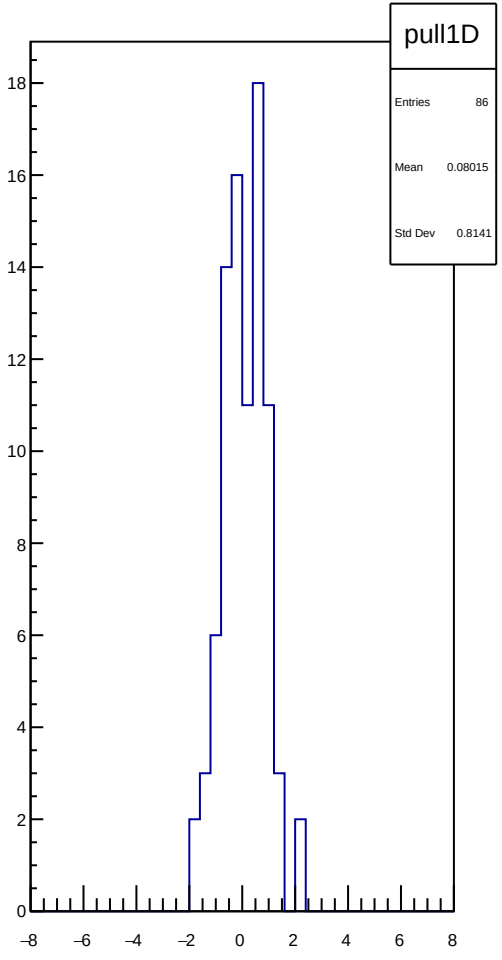

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 85
p0 4.88e−11 ± 6.207e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

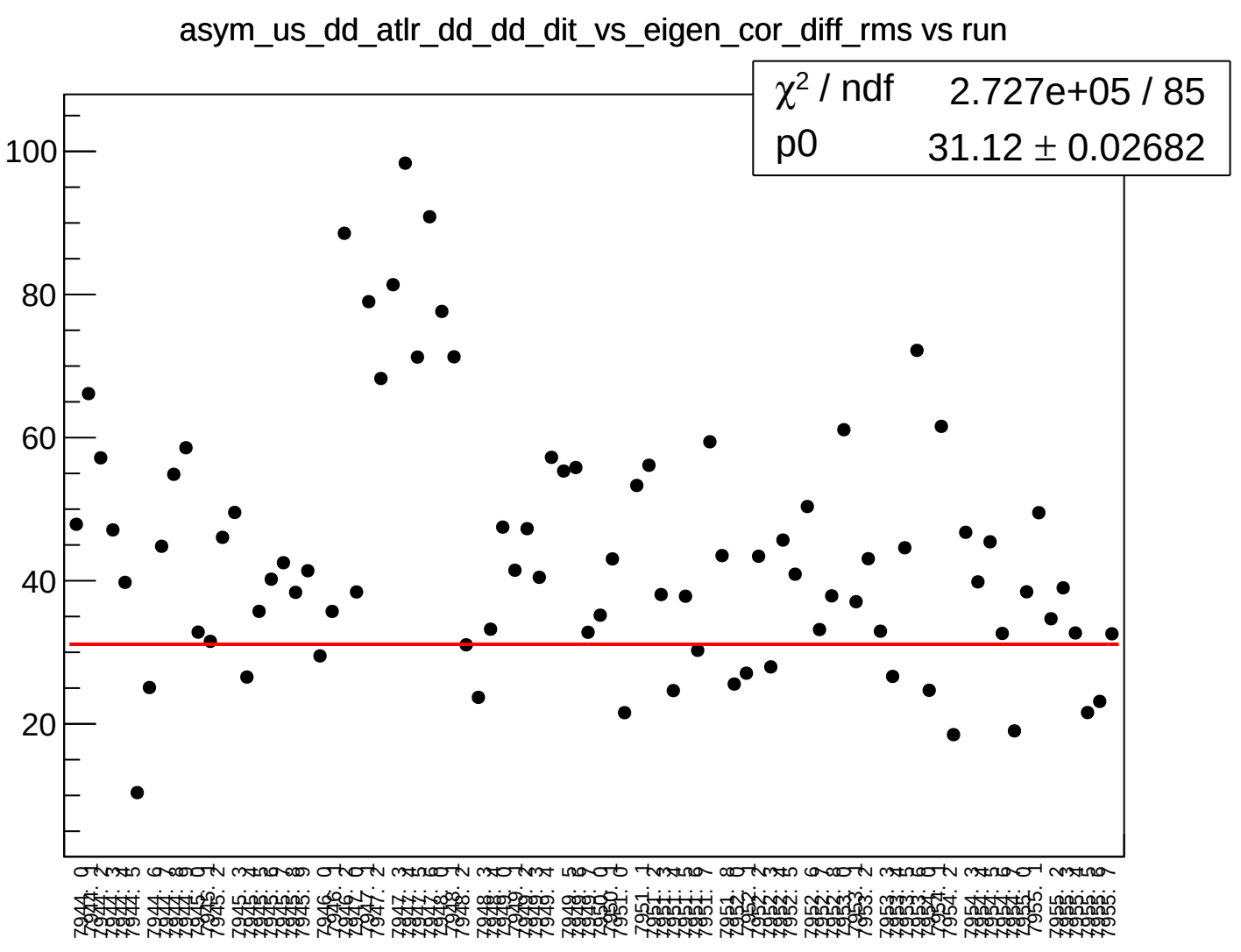

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.55 / 85
p0 0.02749 ± 0.03793
pull
Entries 86
Mean 38.71
Std Dev 28.95

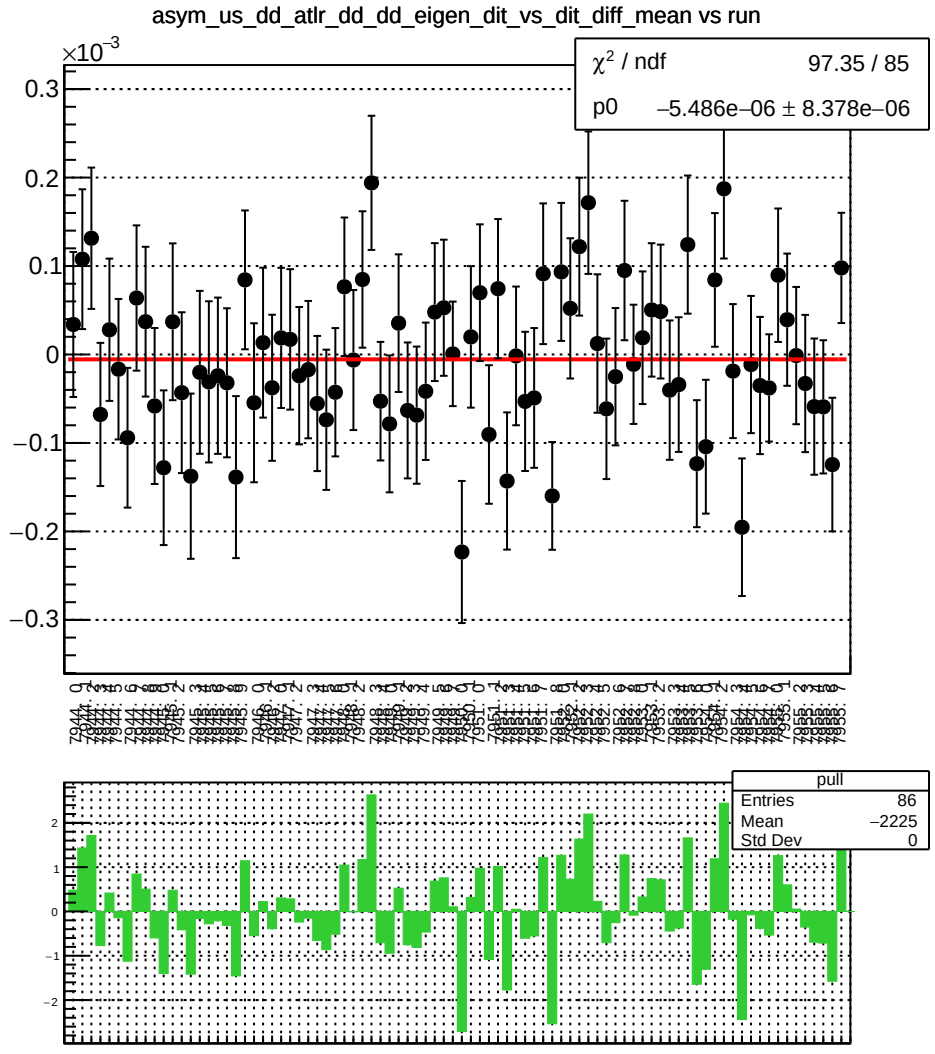

pull1D
Entries 86
Mean 0.08015
Std Dev 0.8141

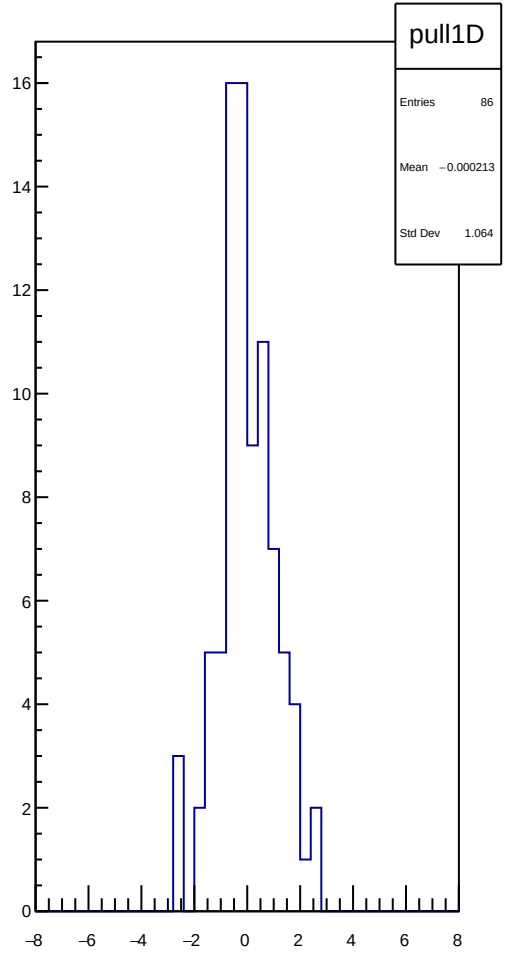

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.727e+05 / 85
p0 31.12 ± 0.02682
100
80
60
40
20

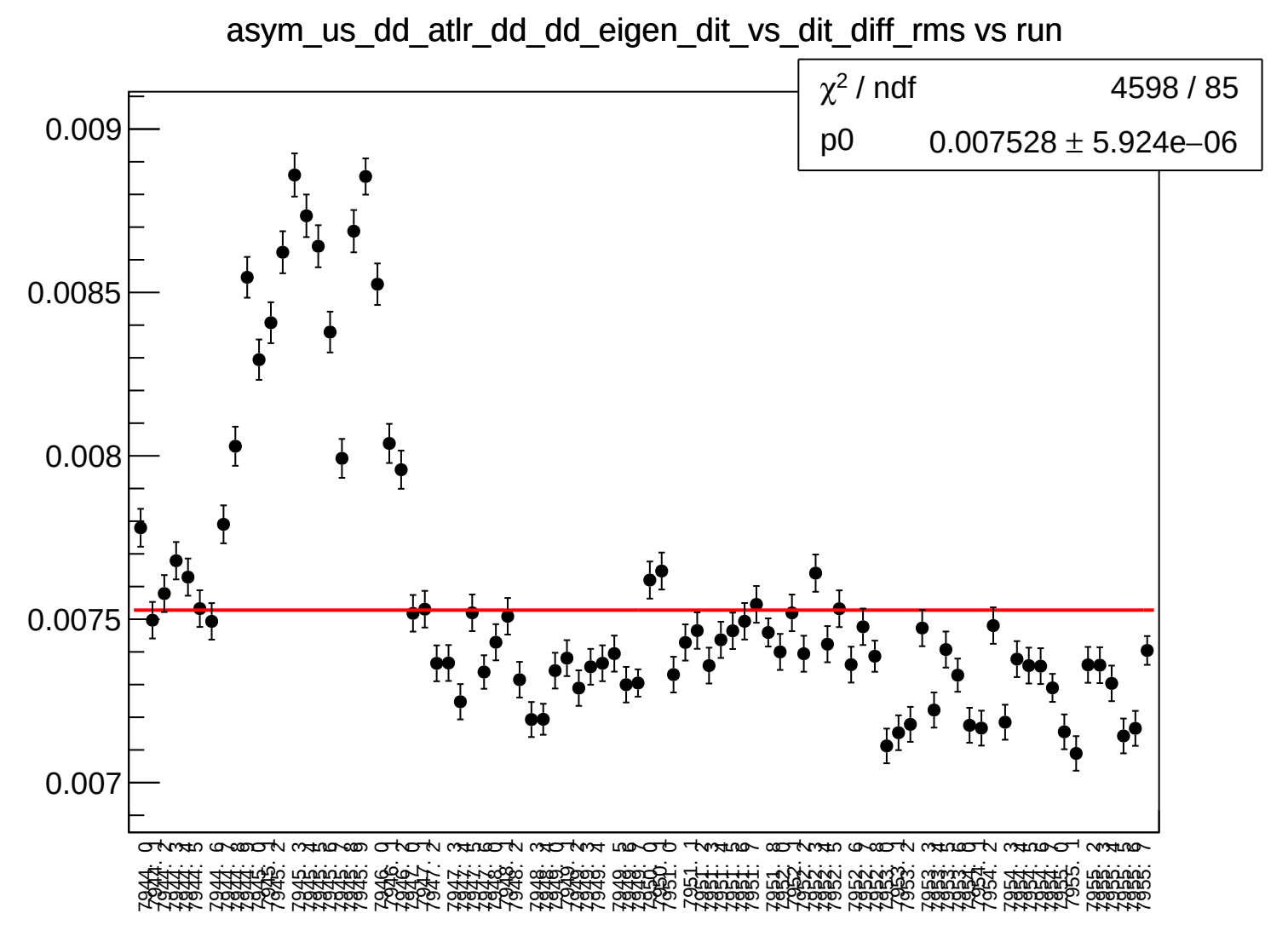

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.55 / 85
p0 0.02749 ± 0.03793
pull
Entries 86
Mean 38.71
Std Dev 28.95

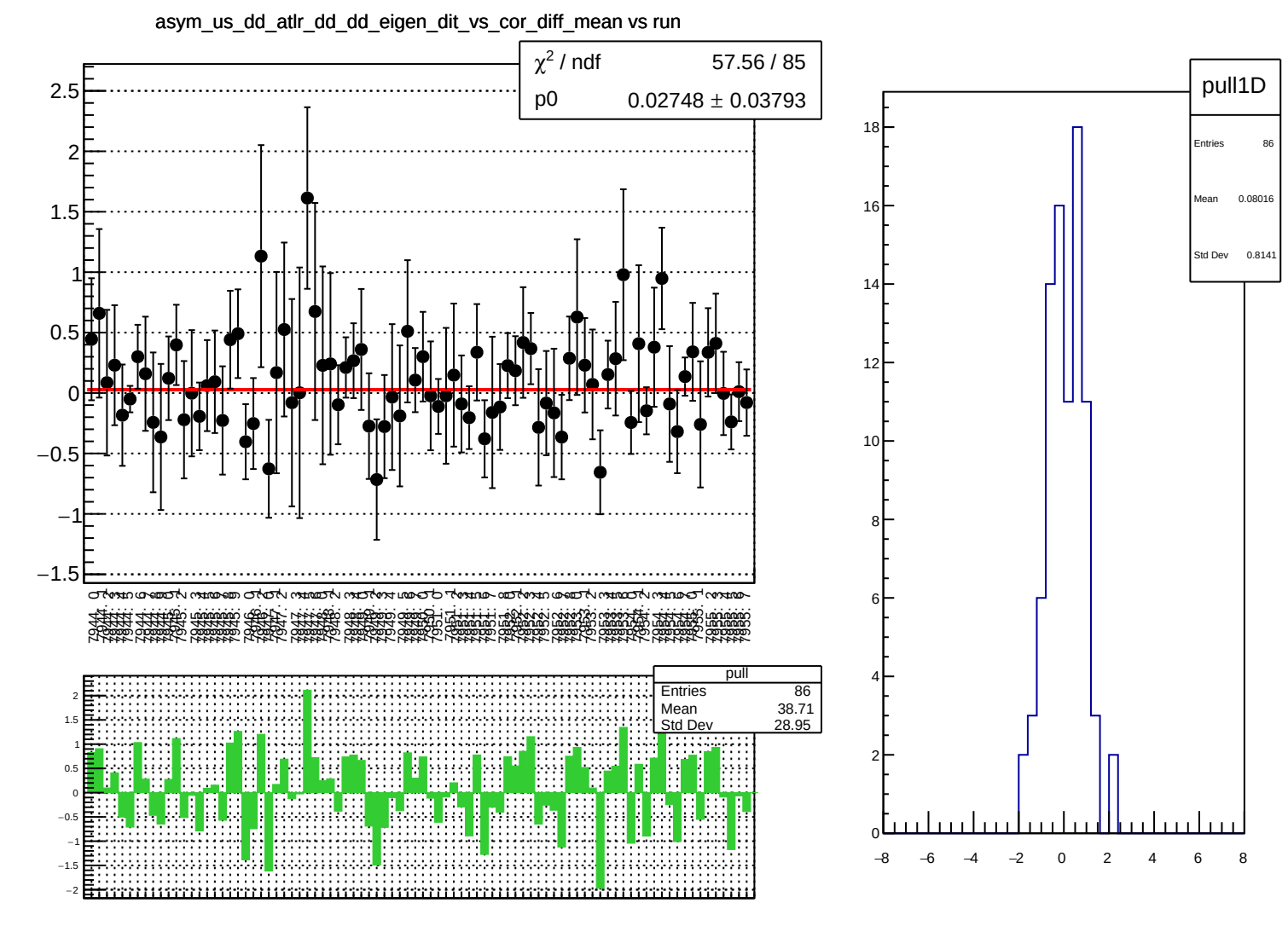

pull1D
Entries 86
Mean 0.08015
Std Dev 0.8141

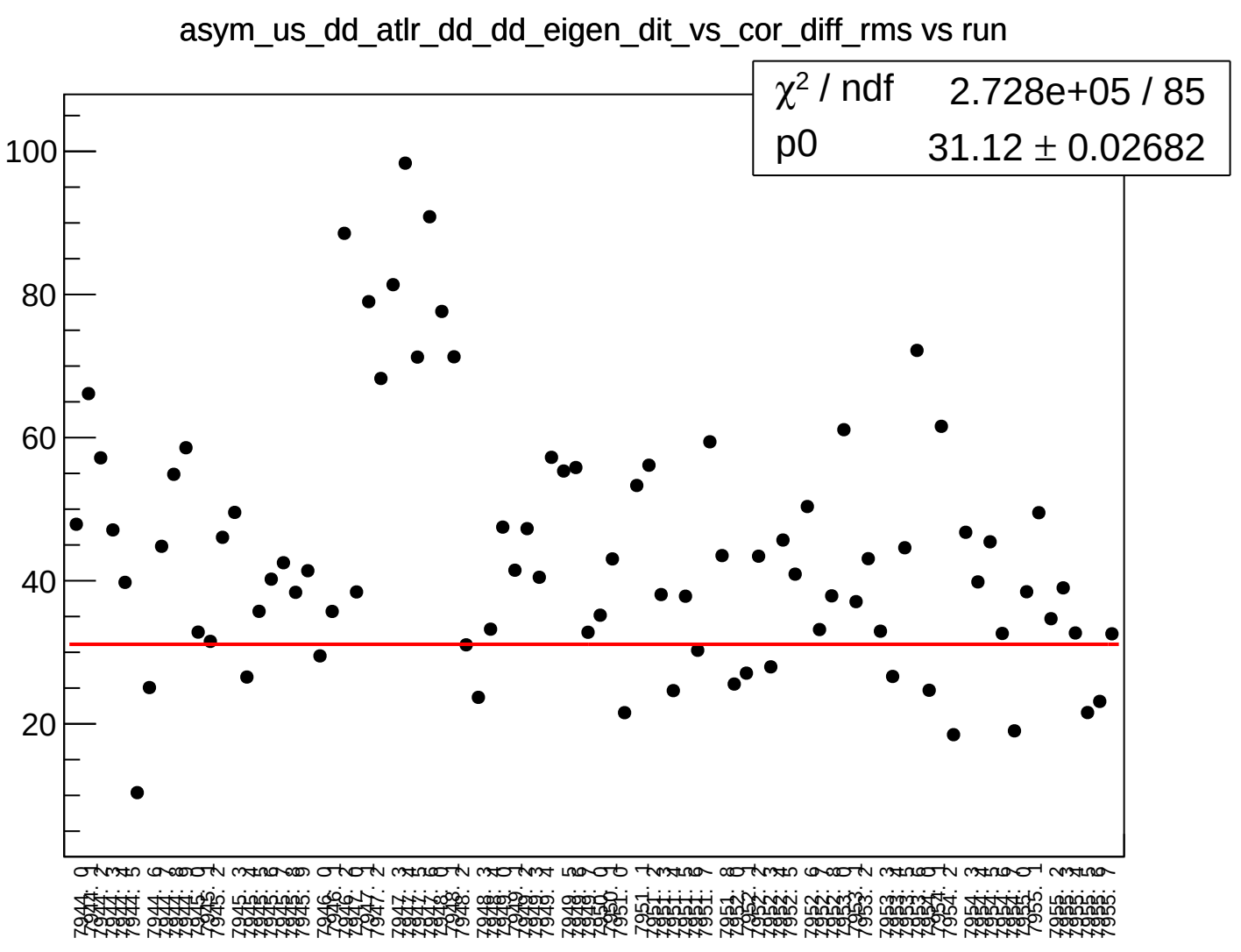

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.727e+05 / 85
p0 31.12 ± 0.02682
100
80
60
40
20

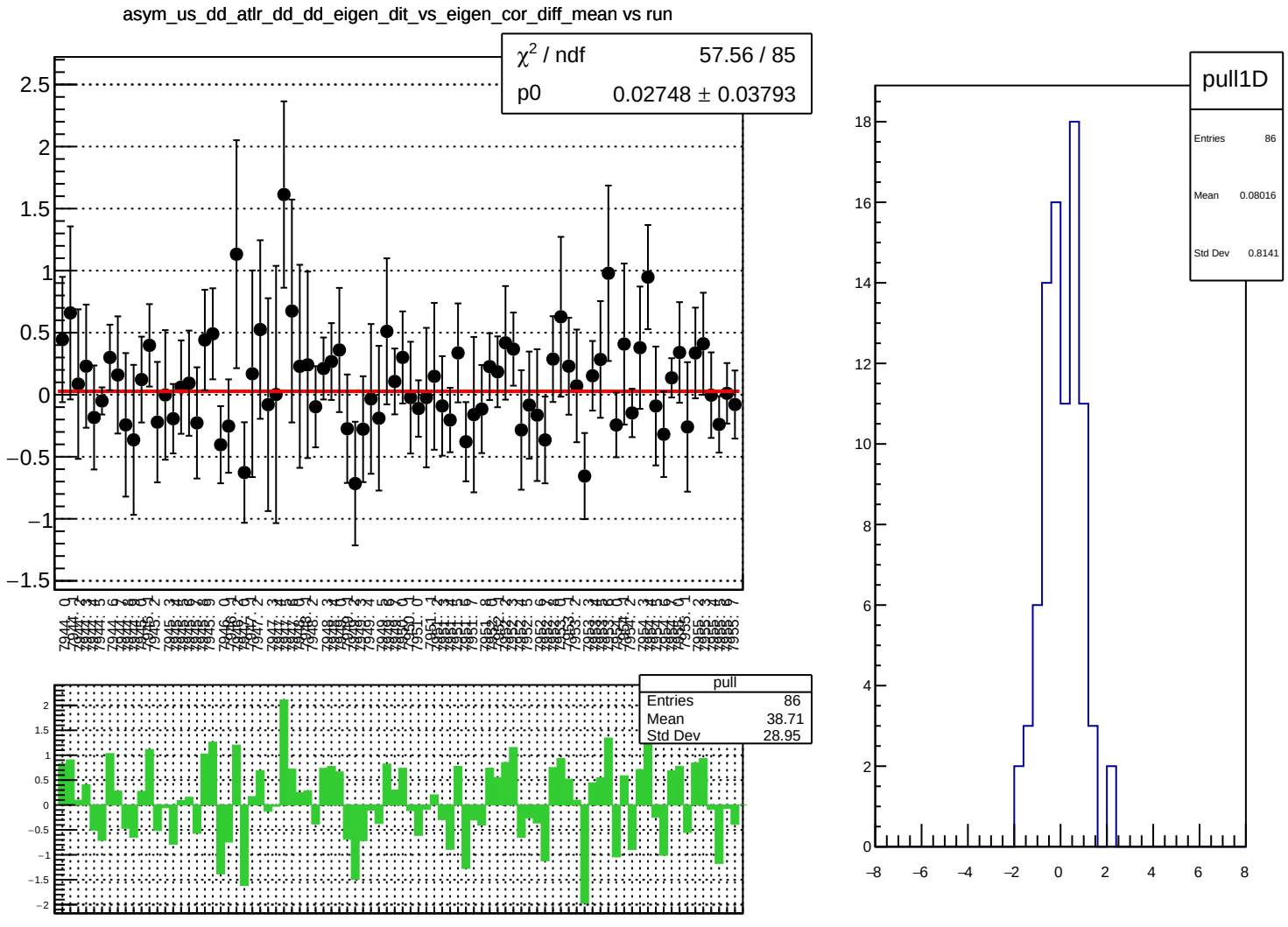

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.35 / 85
p0 −5.486e−06 ± 8.378e−06
pull
Entries 86
Mean −2225
Std Dev 0

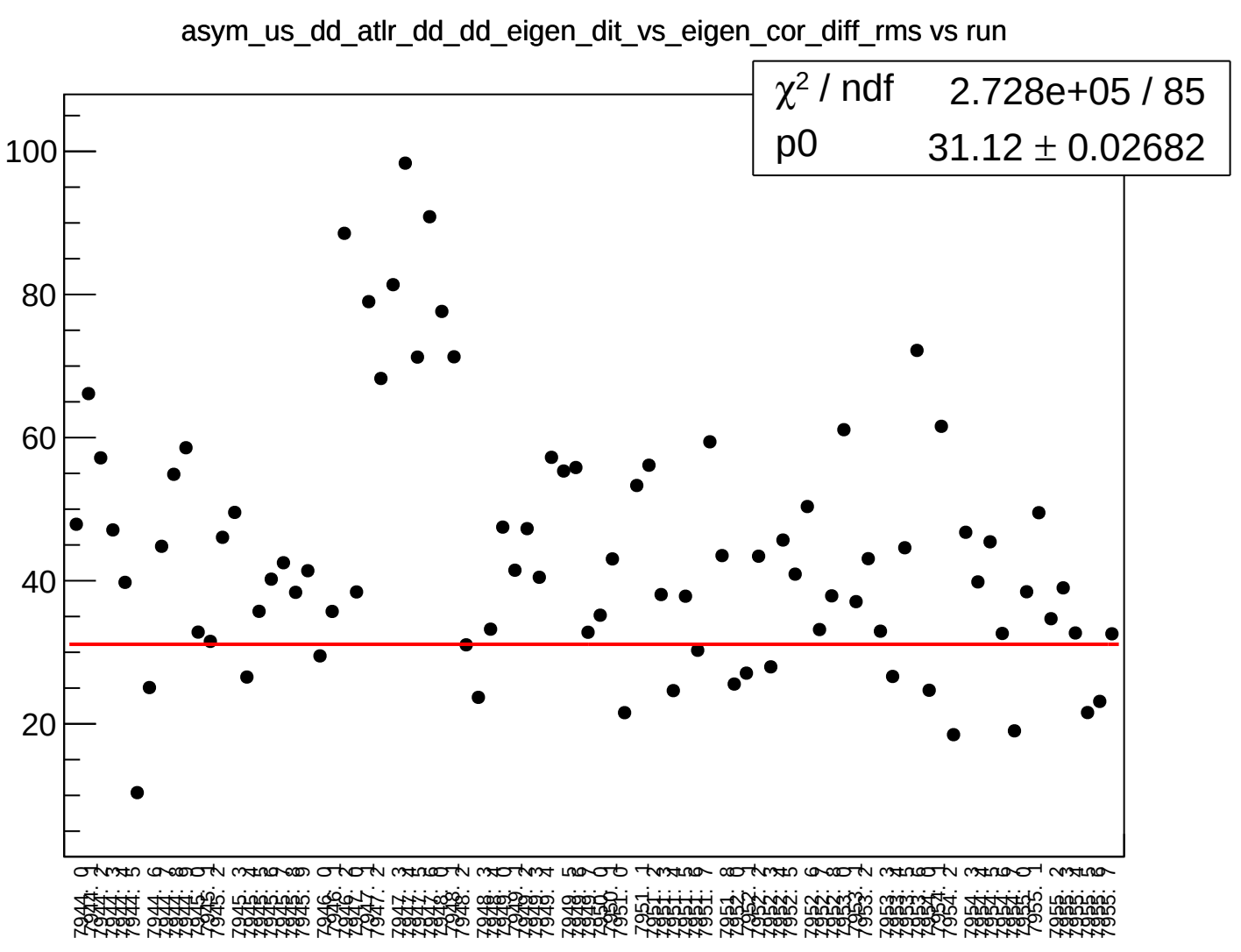

pull1D
Entries 86
Mean −0.000213
Std Dev 1.064

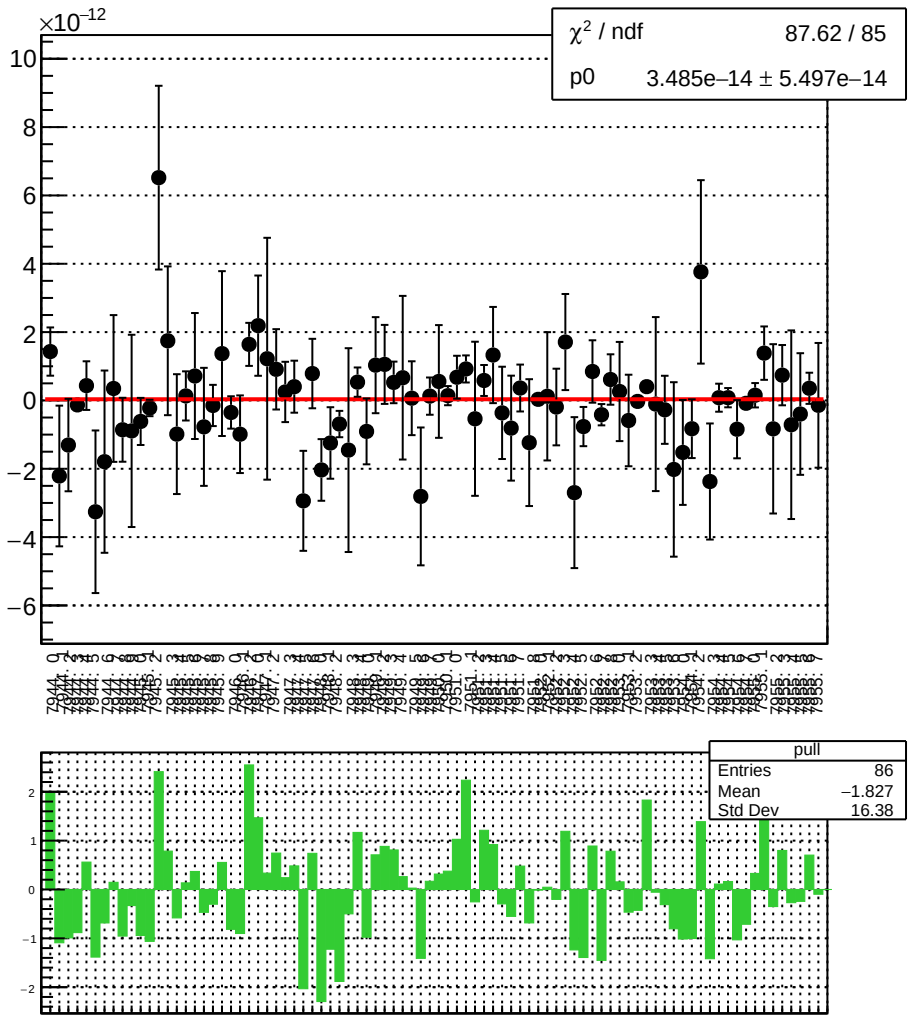

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4598 / 85
p0 0.007528 ± 5.924e−06
0.009
0.0085
0.008
0.0075
0.007

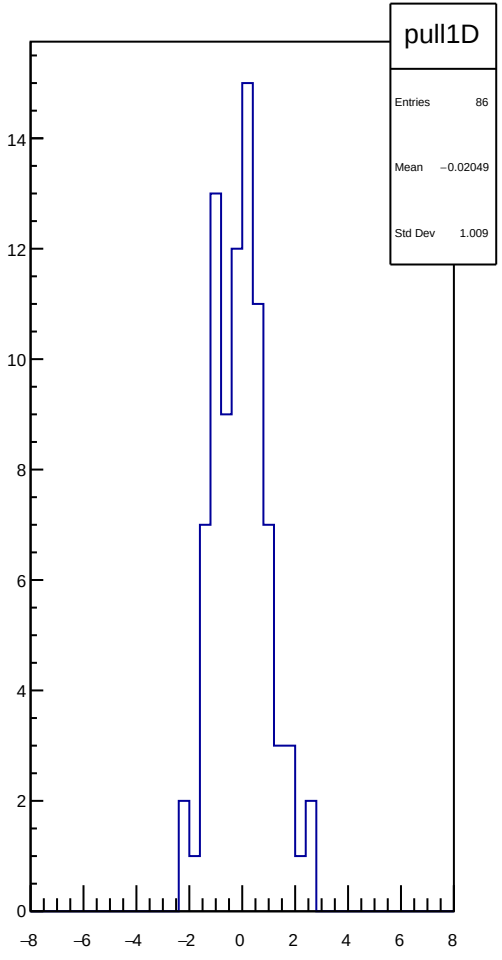

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.56 / 85
p0 0.02748 ± 0.03793
pull
Entries 86
Mean 38.71
Std Dev 28.95
pull1D
Entries 86
Mean 0.08016
Std Dev 0.8141

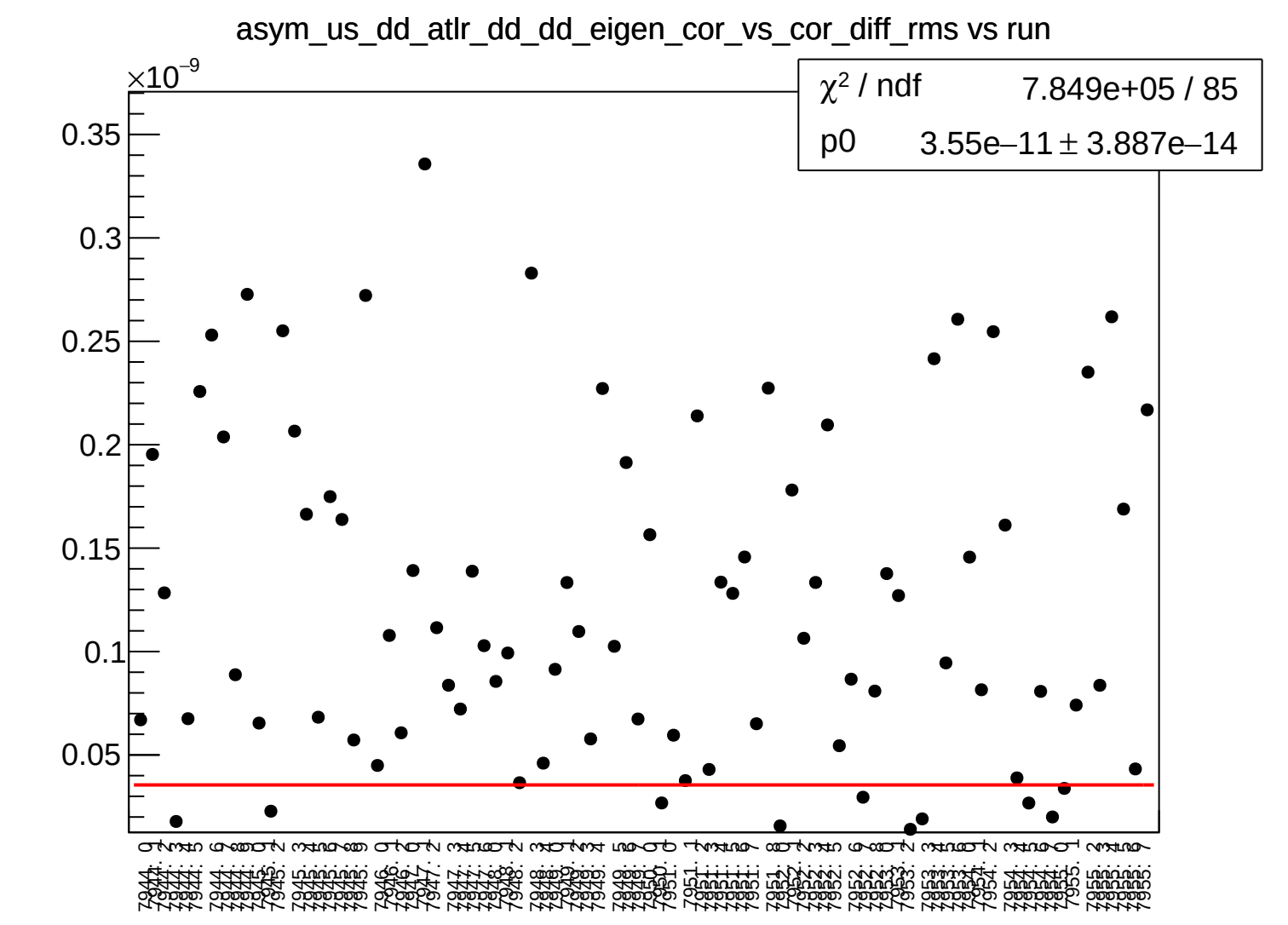

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.728e+05 / 85
p0 31.12 ± 0.02682
100
80
60
40
20

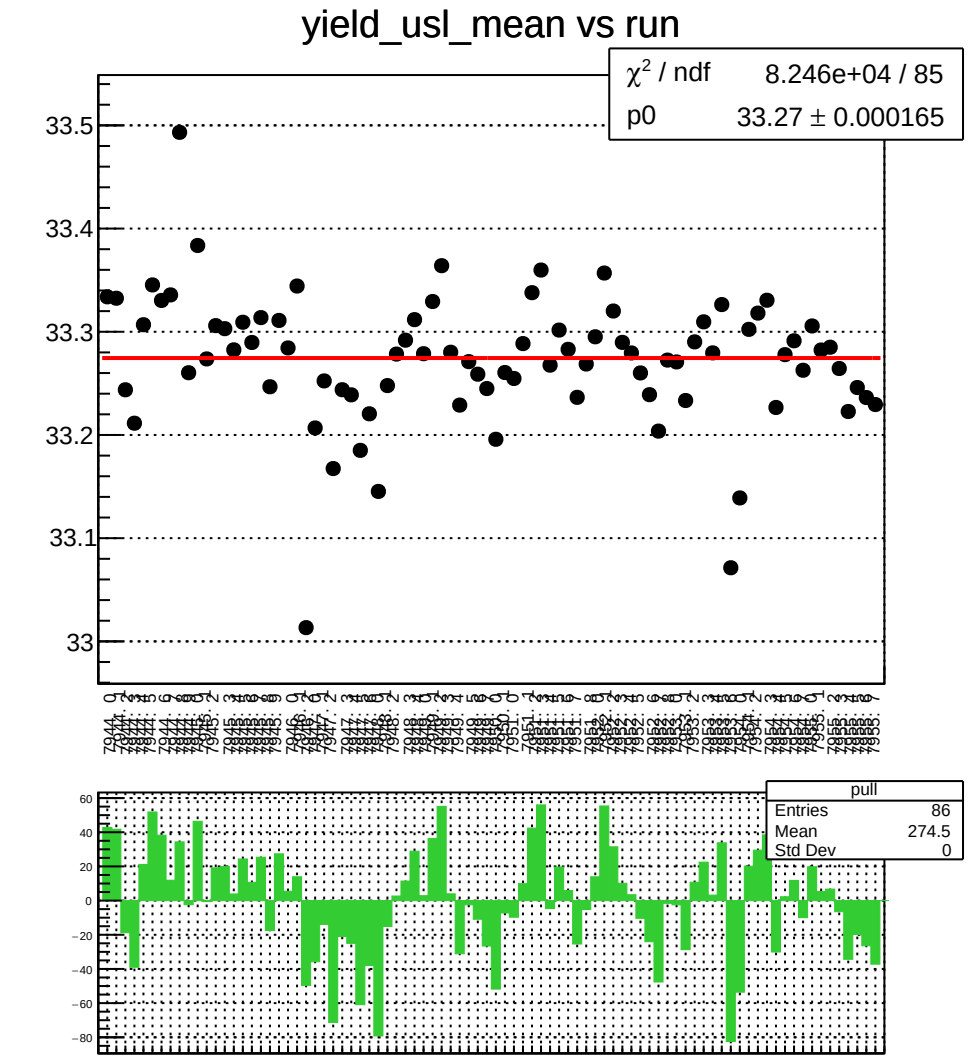

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.56 / 85
p0 0.02748 ± 0.03793
pull
Entries 86
Mean 38.71
Std Dev 28.95
pull1D
Entries 86
Mean 0.08016
Std Dev 0.8141

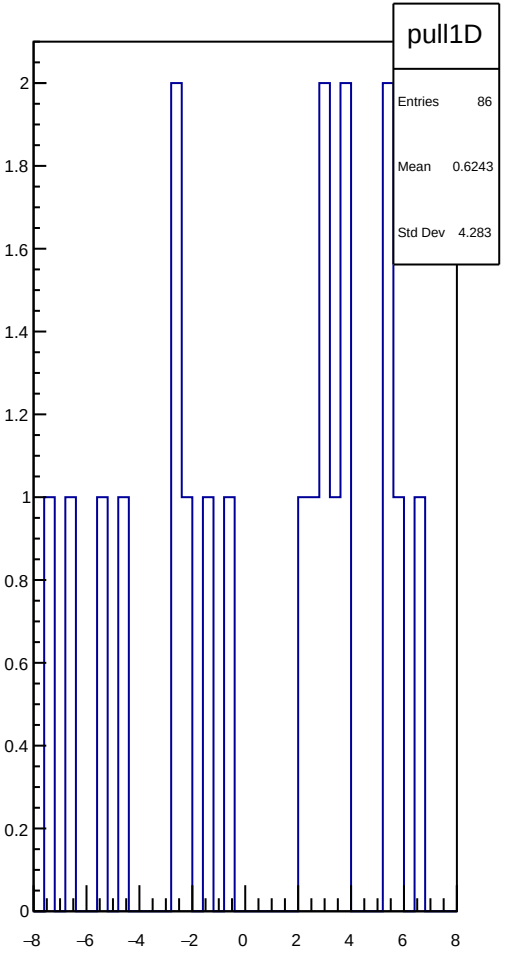

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.728e+05 / 85
p0 31.12 ± 0.02682
100
80
60
40
20

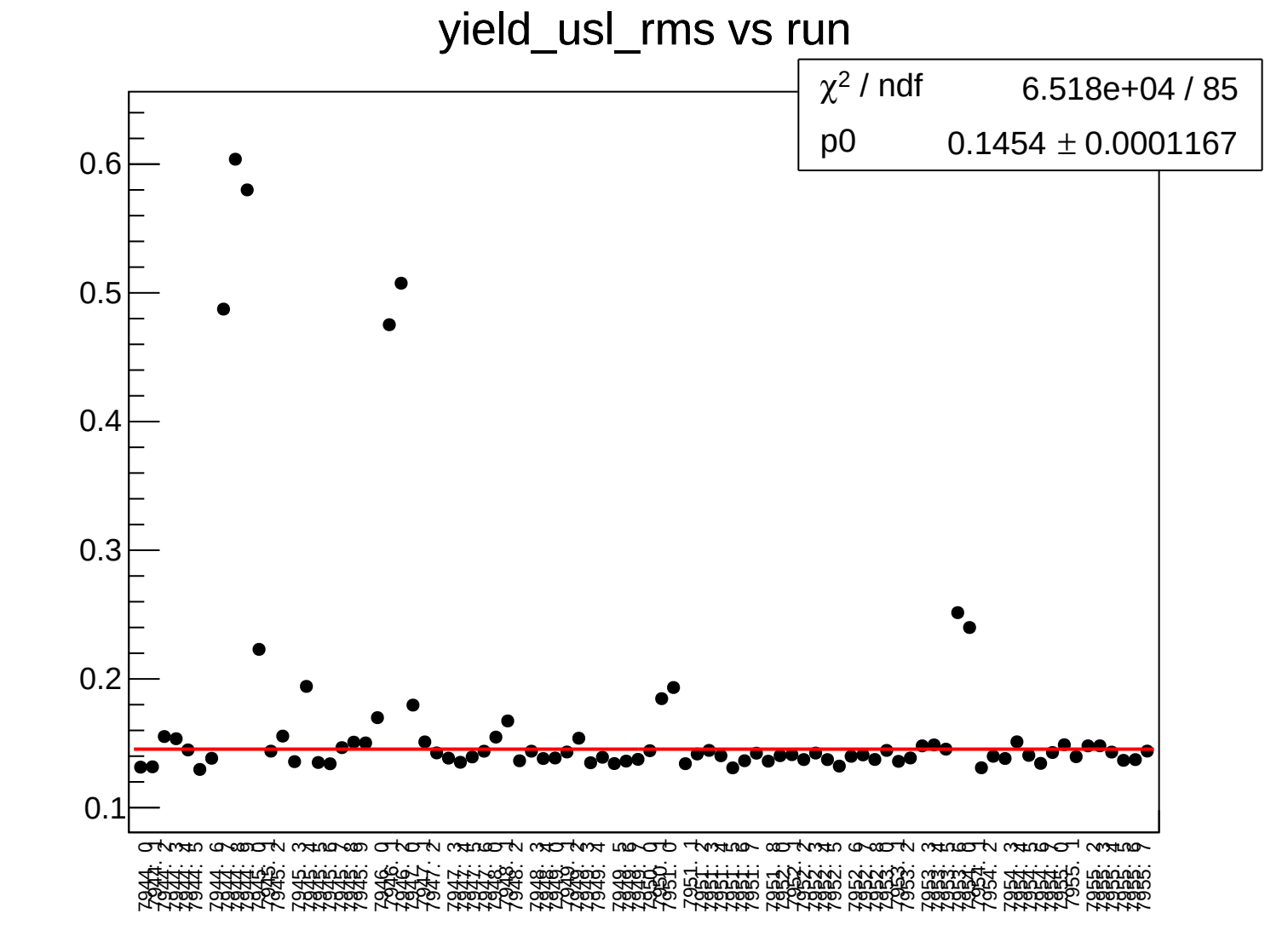

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.62 / 85
p0 3.485e−14 ± 5.497e−14
pull
Entries 86
Mean −1.827
Std Dev 16.38

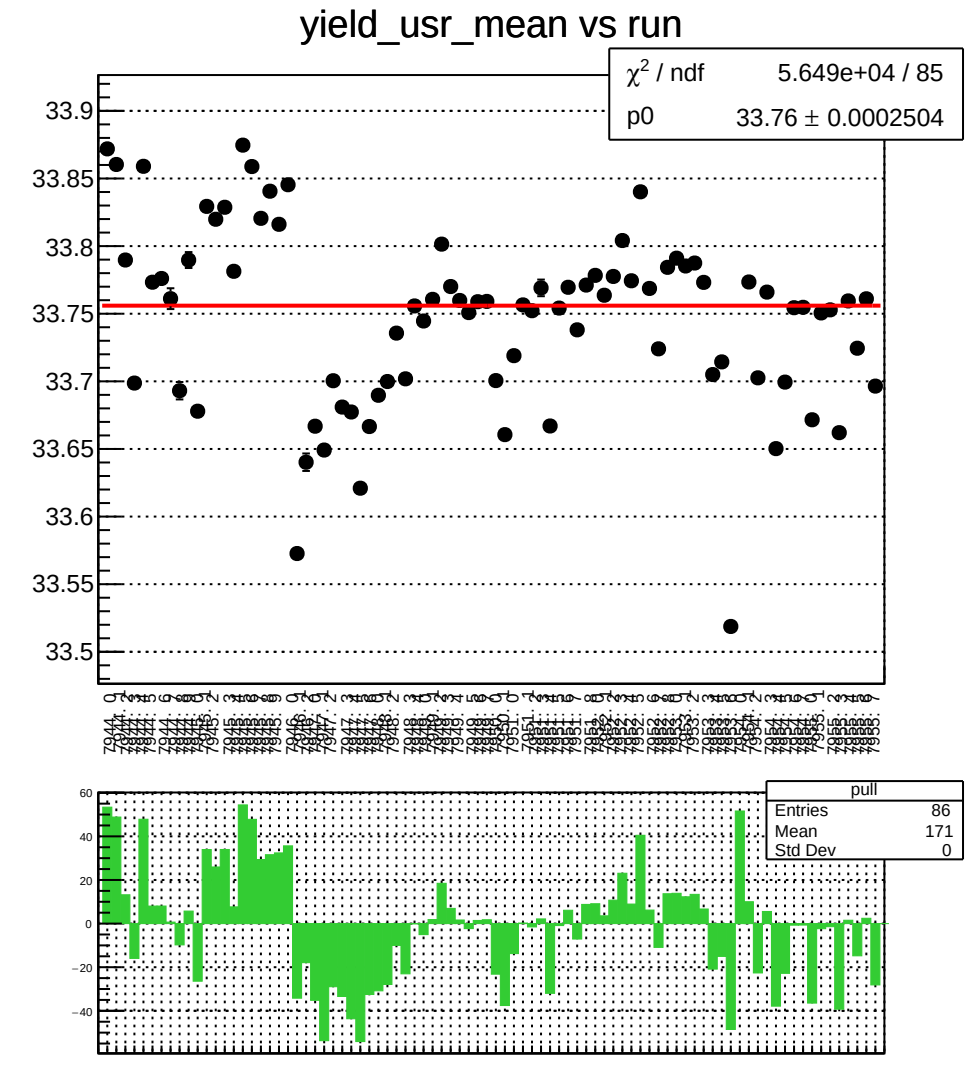

pull1D
Entries 86
Mean −0.02049
Std Dev 1.009

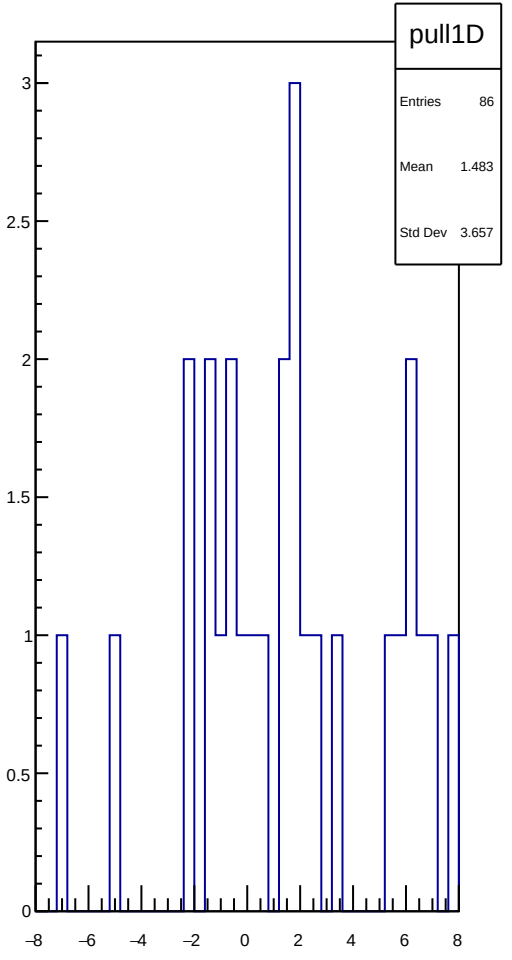

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.849e+05 / 85
p0 3.55e−11 ± 3.887e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

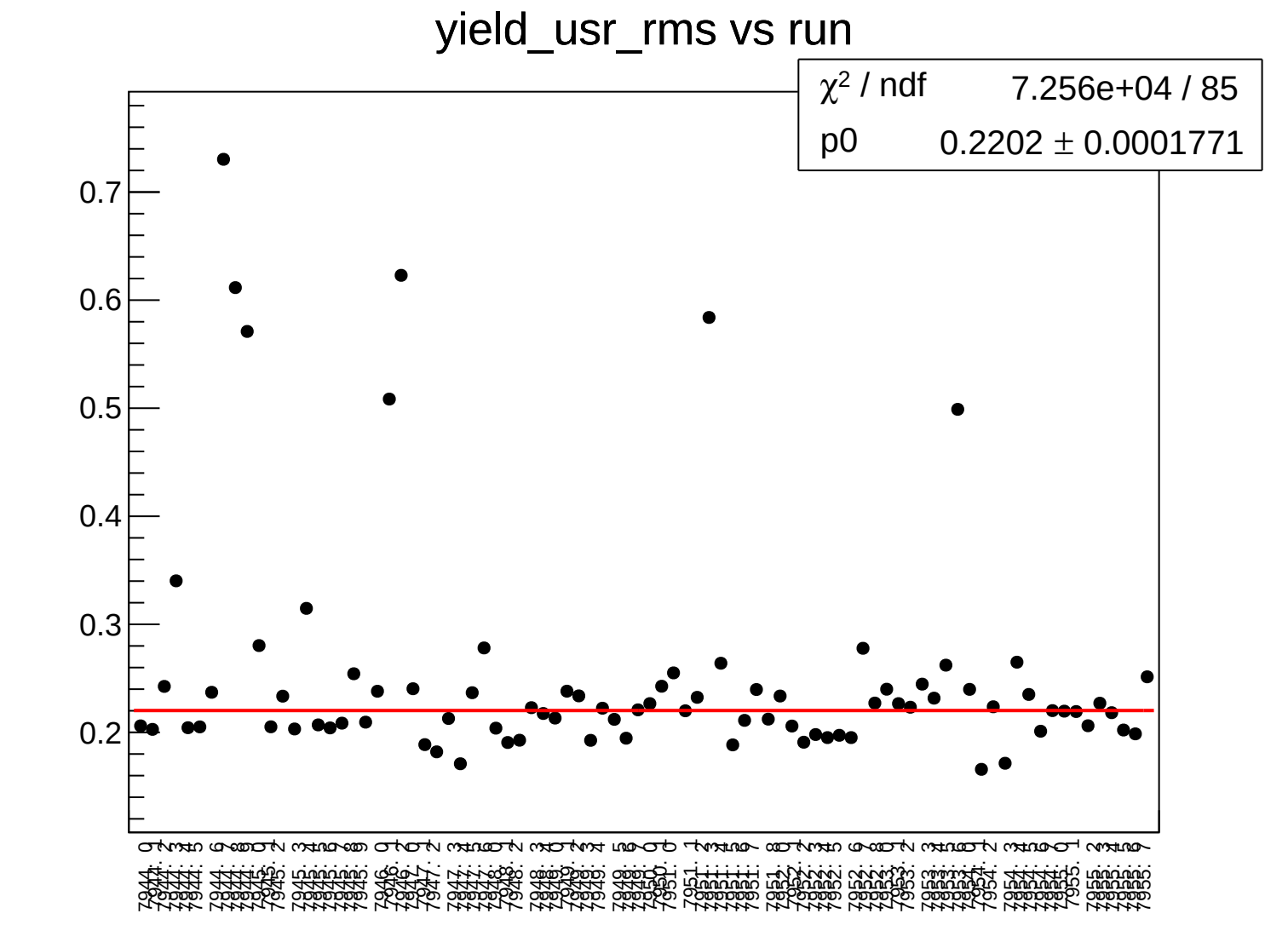

yield_usl_mean vs run
χ² / ndf 8.246e+04 / 85
p0 33.27 ± 0.000165
33.5
33.4
33.3
33.2
33.1
33
pull
Entries 86
Mean 274.5
Std Dev 0
60
40
20
0
−20
−40
−60
−80

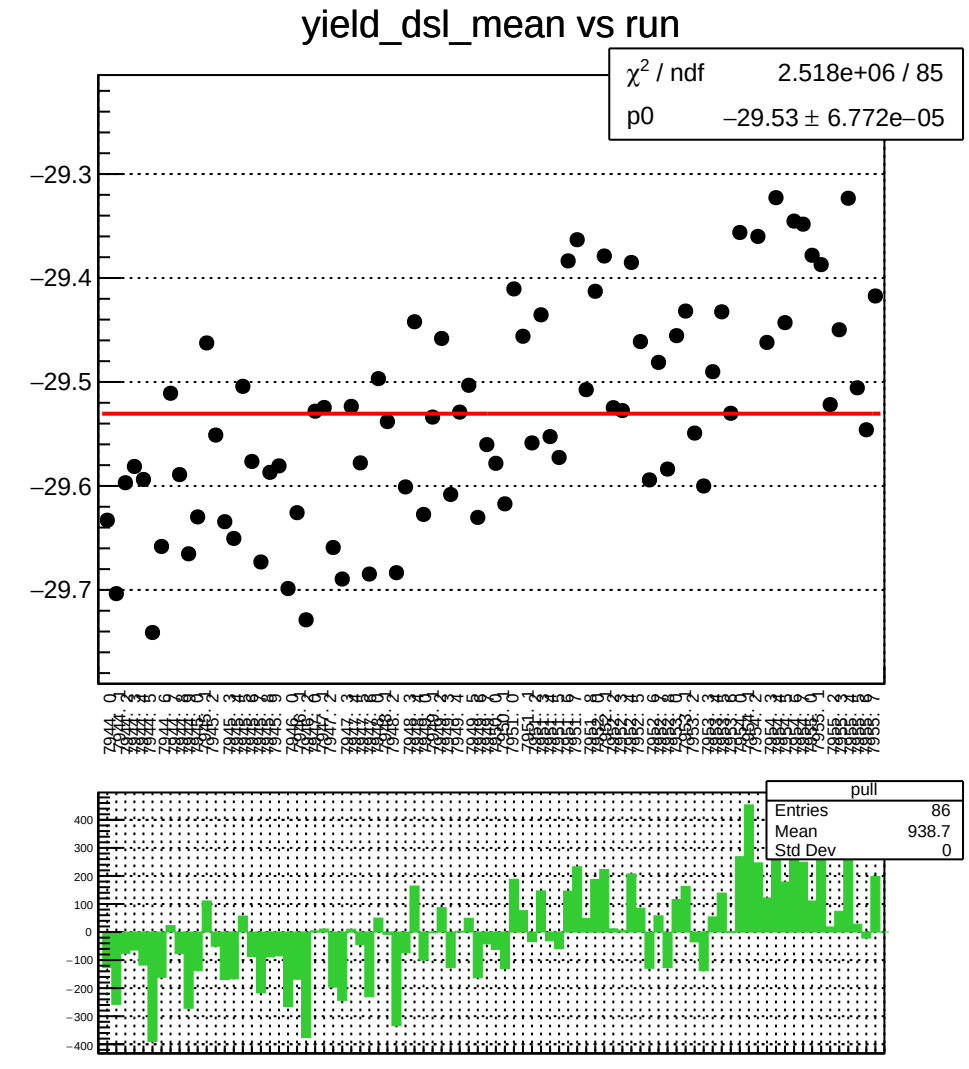

pull1D
Entries 86
Mean 0.6243
Std Dev 4.283
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

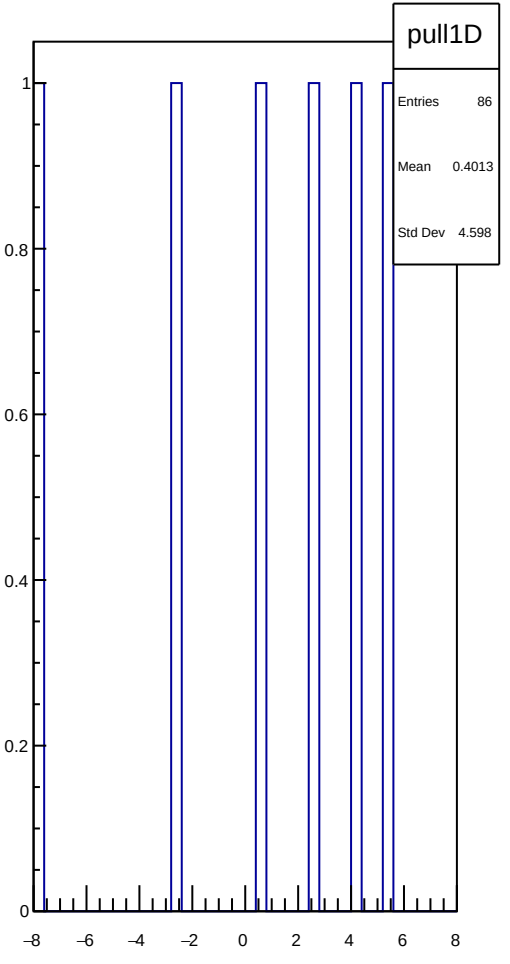

yield_usl_rms vs run
χ^2 / ndf 6.518e+04 / 85
p0 0.1454 ± 0.0001167
0.6
0.5
0.4
0.3
0.2
0.1

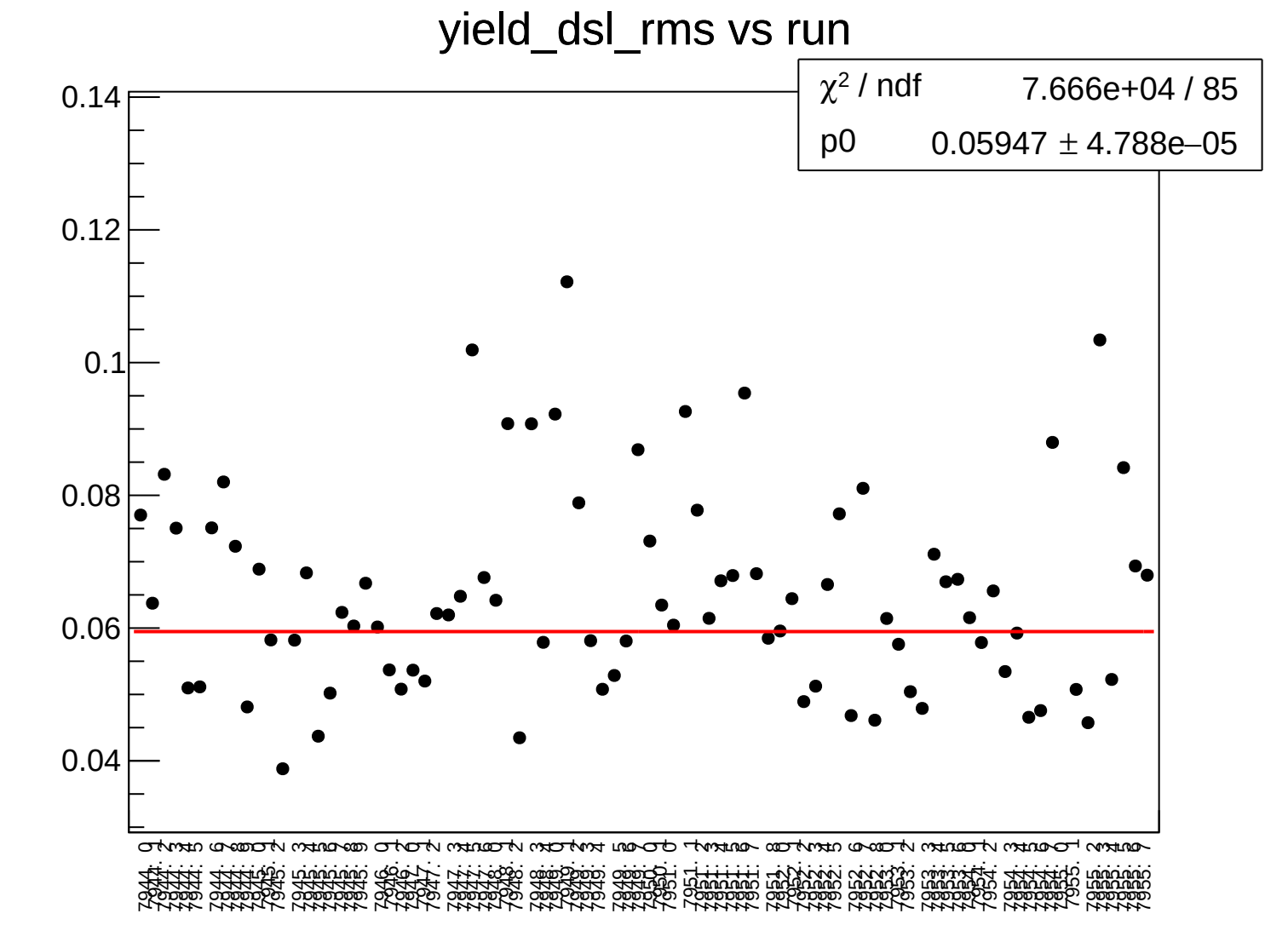

yield_usr_mean vs run
χ² / ndf 5.649e+04 / 85
p0 33.76 ± 0.0002504
33.9
33.85
33.8
33.75
33.7
33.65
33.6
33.55
33.5
pull
Entries 86
Mean 171
Std Dev 0
60
40
20
0
−20
−40

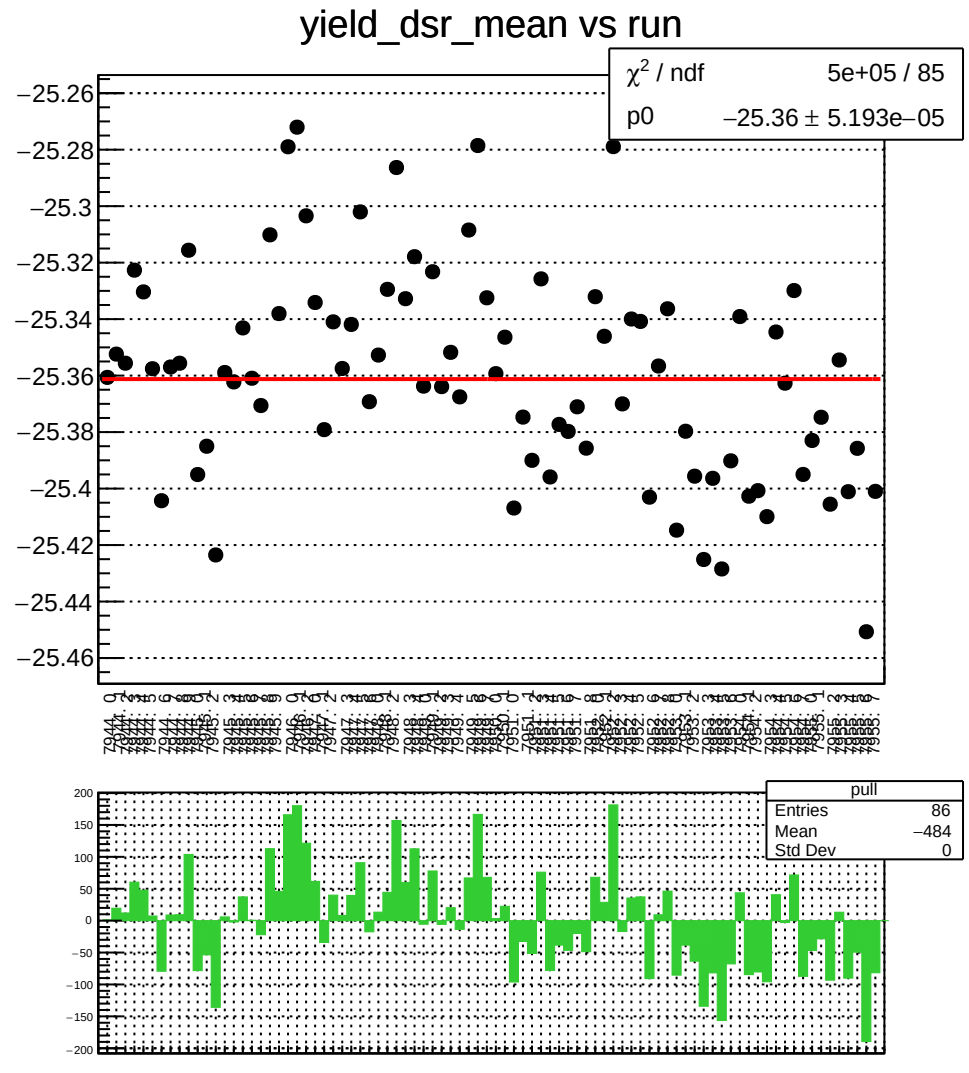

pull1D
Entries 86
Mean 1.483
Std Dev 3.657
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

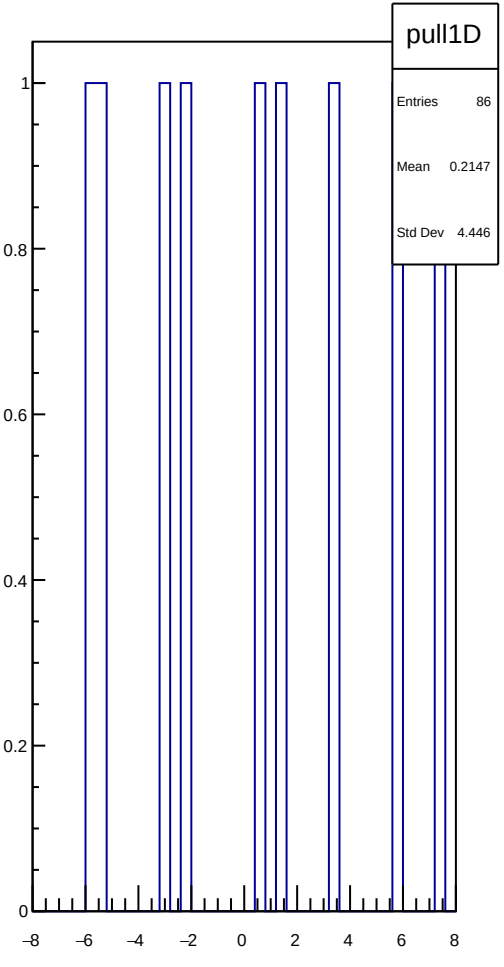

yield_usr_rms vs run
χ² / ndf 7.256e+04 / 85
p0 0.2202 ± 0.0001771
0.7
0.6
0.5
0.4
0.3
0.2

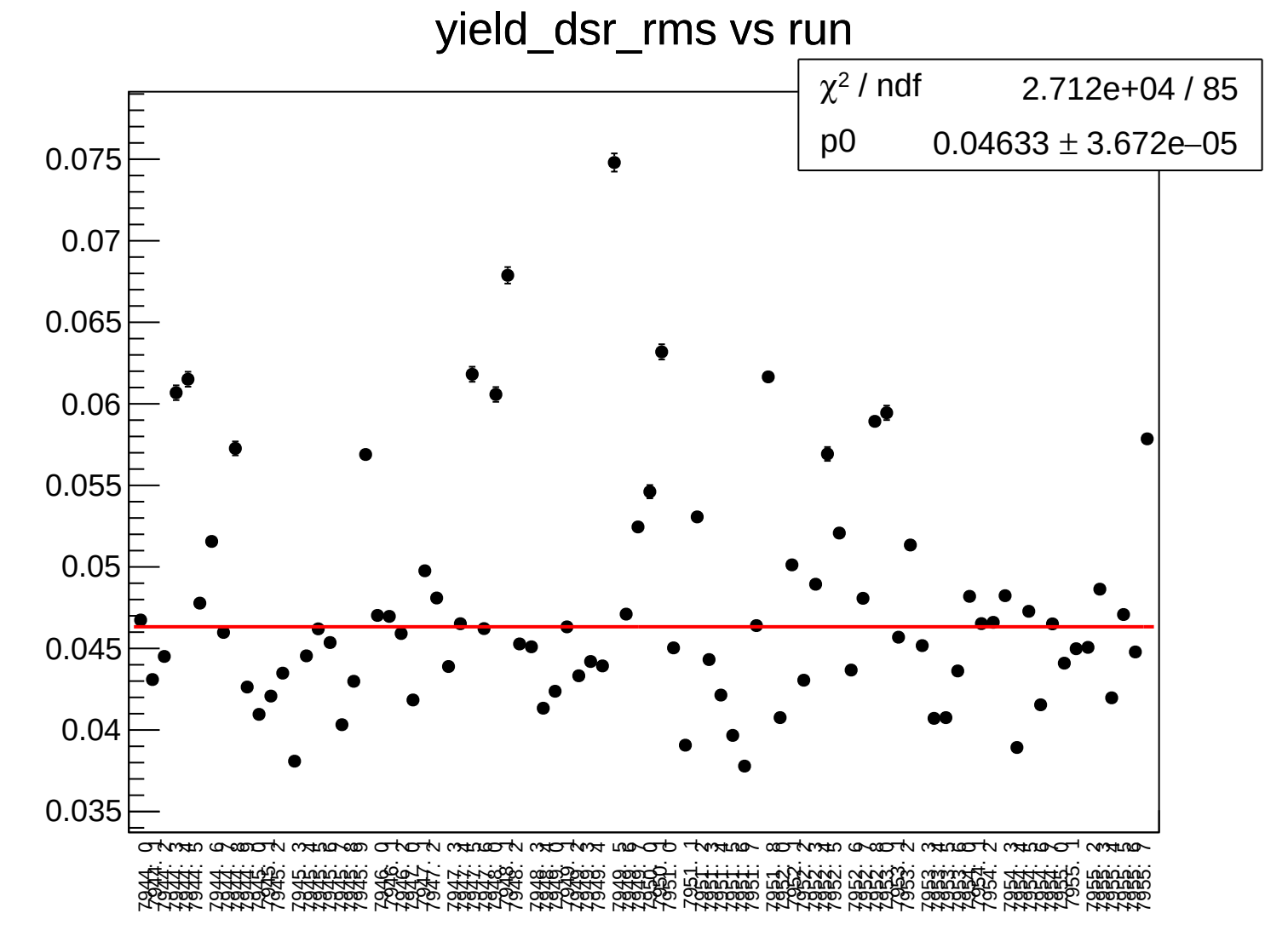

yield_dsl_mean vs run
χ² / ndf 2.518e+06 / 85
p0 −29.53 ± 6.772e−05
−29.3
−29.4
−29.5
−29.6
−29.7
pull
Entries 86
Mean 938.7
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

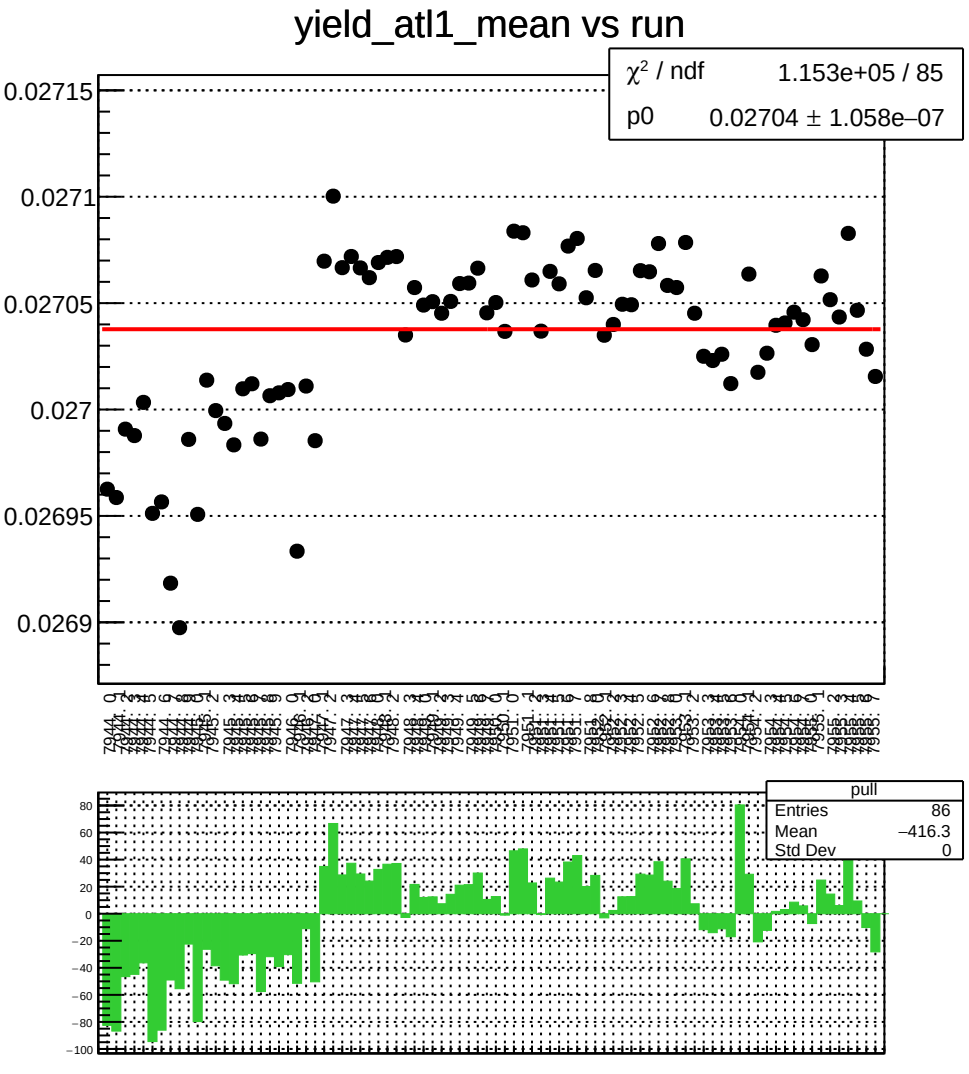

pull1D
Entries 86
Mean 0.4013
Std Dev 4.598
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

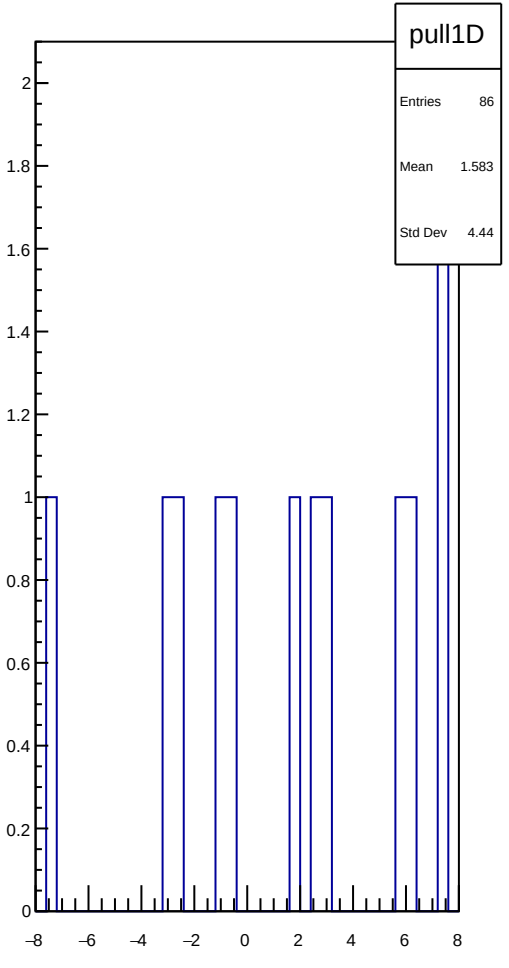

yield_dsl_rms vs run
χ² / ndf 7.666e+04 / 85
p0 0.05947 ± 4.788e–05
0.14
0.12
0.1
0.08
0.06
0.04

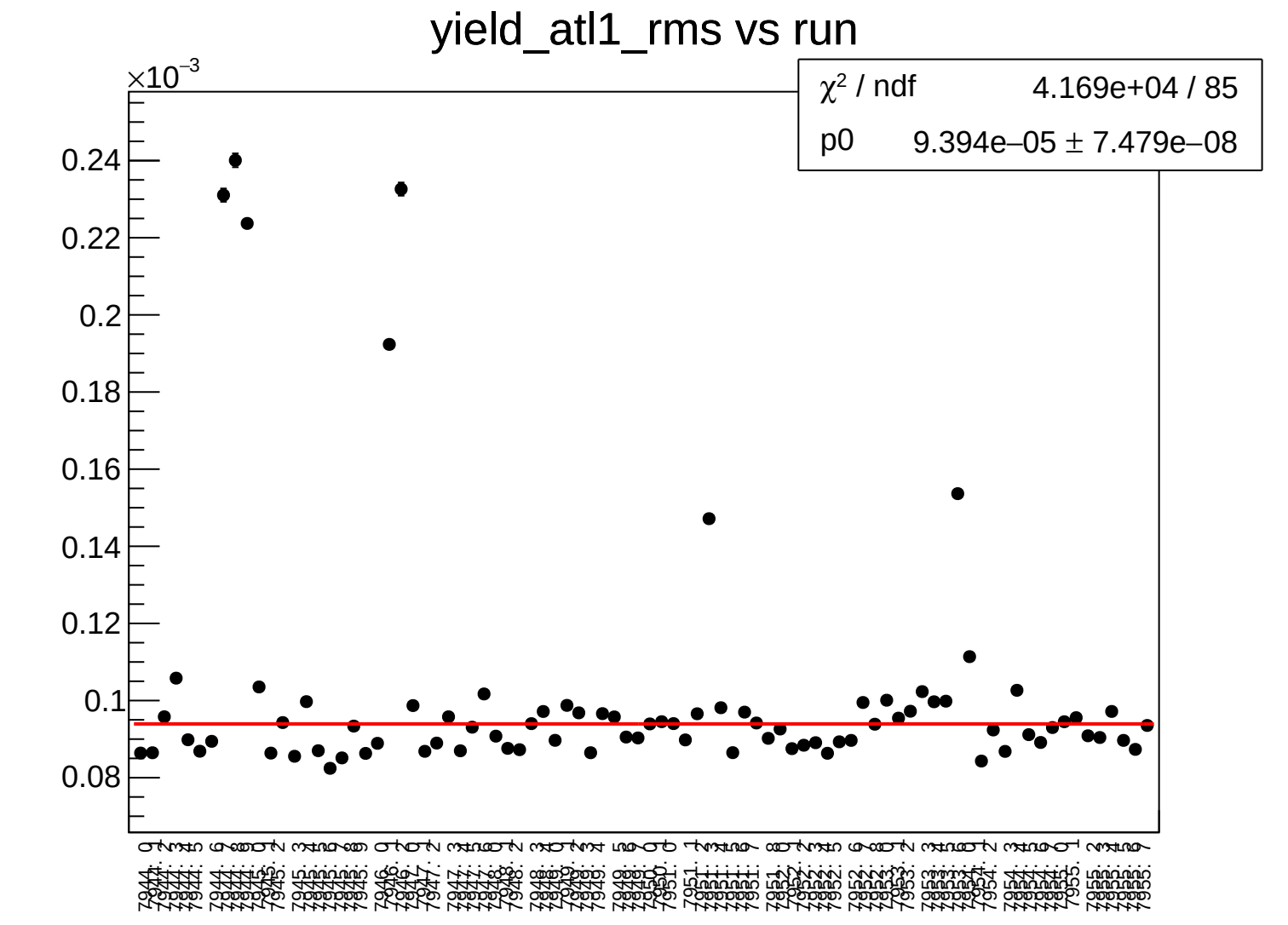

yield_dsr_mean vs run
χ² / ndf 5e+05 / 85
p0 −25.36 ± 5.193e−05
−25.26
−25.28
−25.3
−25.32
−25.34
−25.36
−25.38
−25.4
−25.42
−25.44
−25.46
pull
Entries 86
Mean −484
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

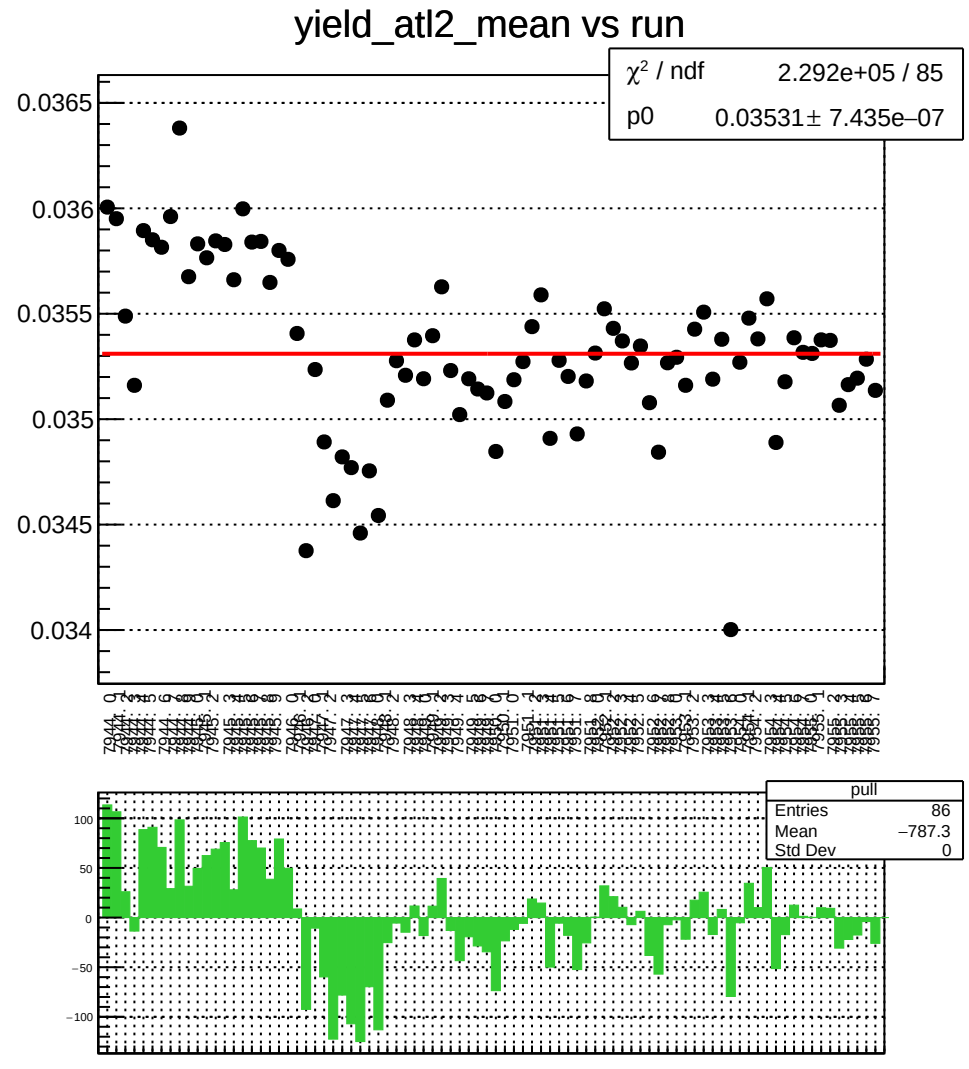

pull1D
Entries 86
Mean 0.2147
Std Dev 4.446
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

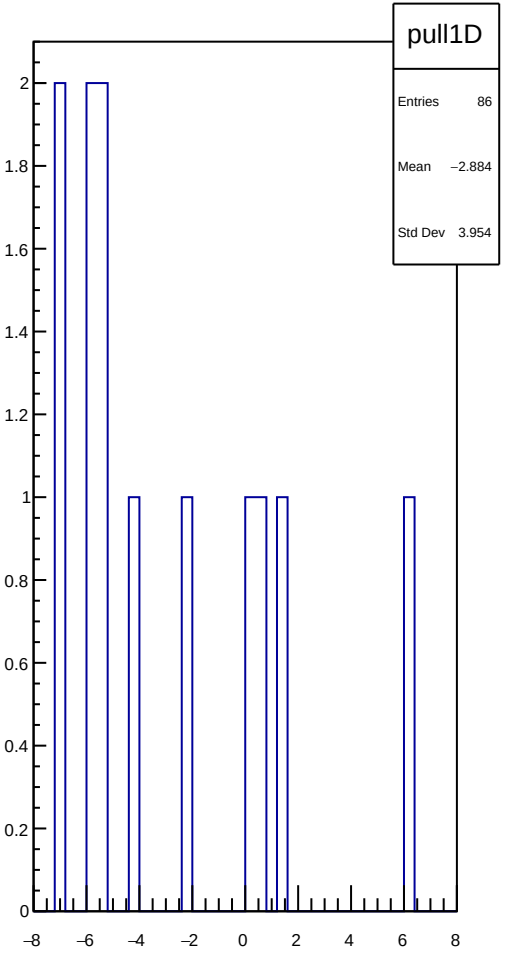

yield_dsr_rms vs run
χ² / ndf 2.712e+04 / 85
p0 0.04633 ± 3.672e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035

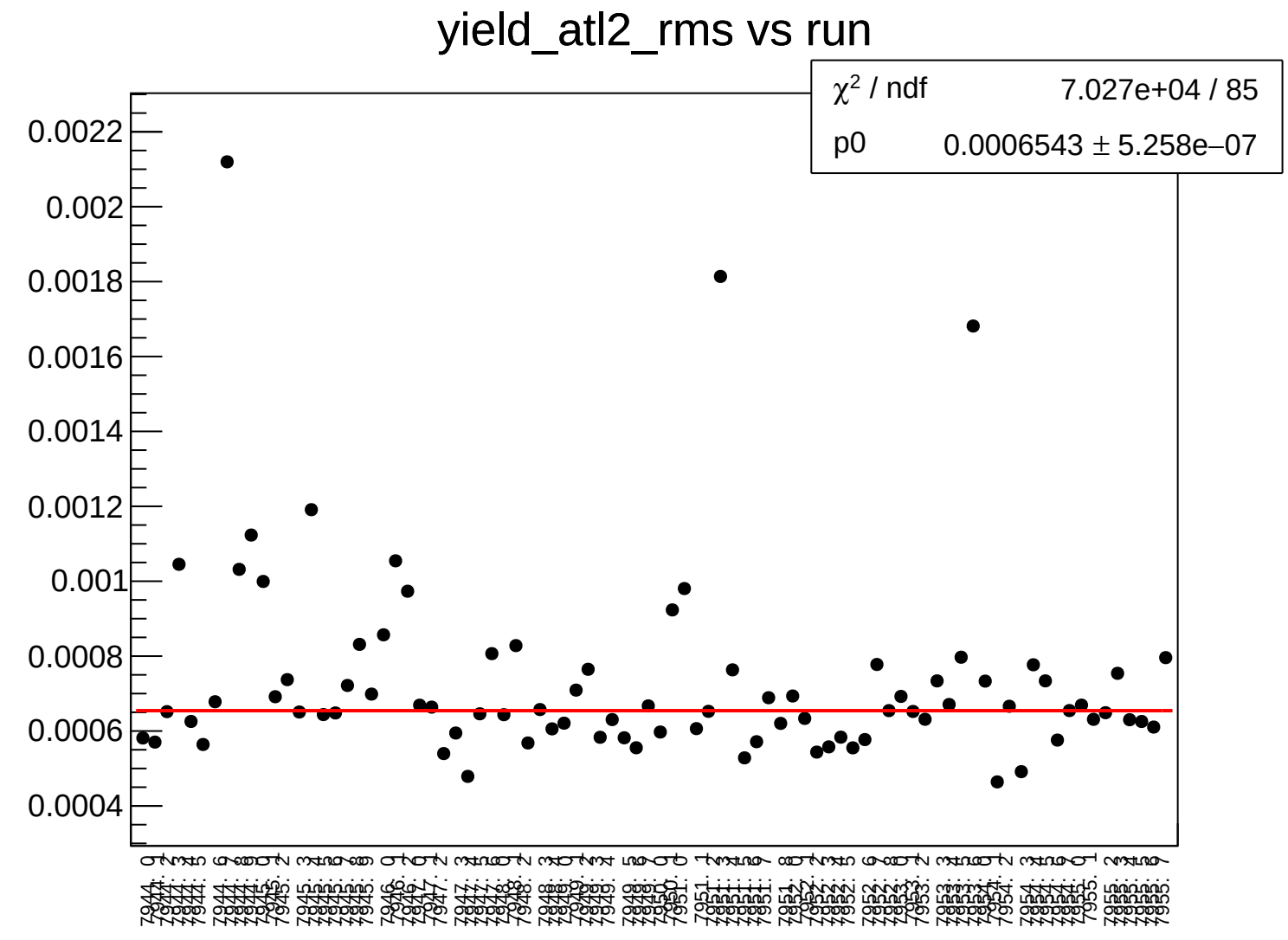

yield_atl1_mean vs run
χ² / ndf 1.153e+05 / 85
p0 0.02704 ± 1.058e−07
0.02715
0.0271
0.02705
0.027
0.02695
0.0269
pull
Entries 86
Mean −416.3
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

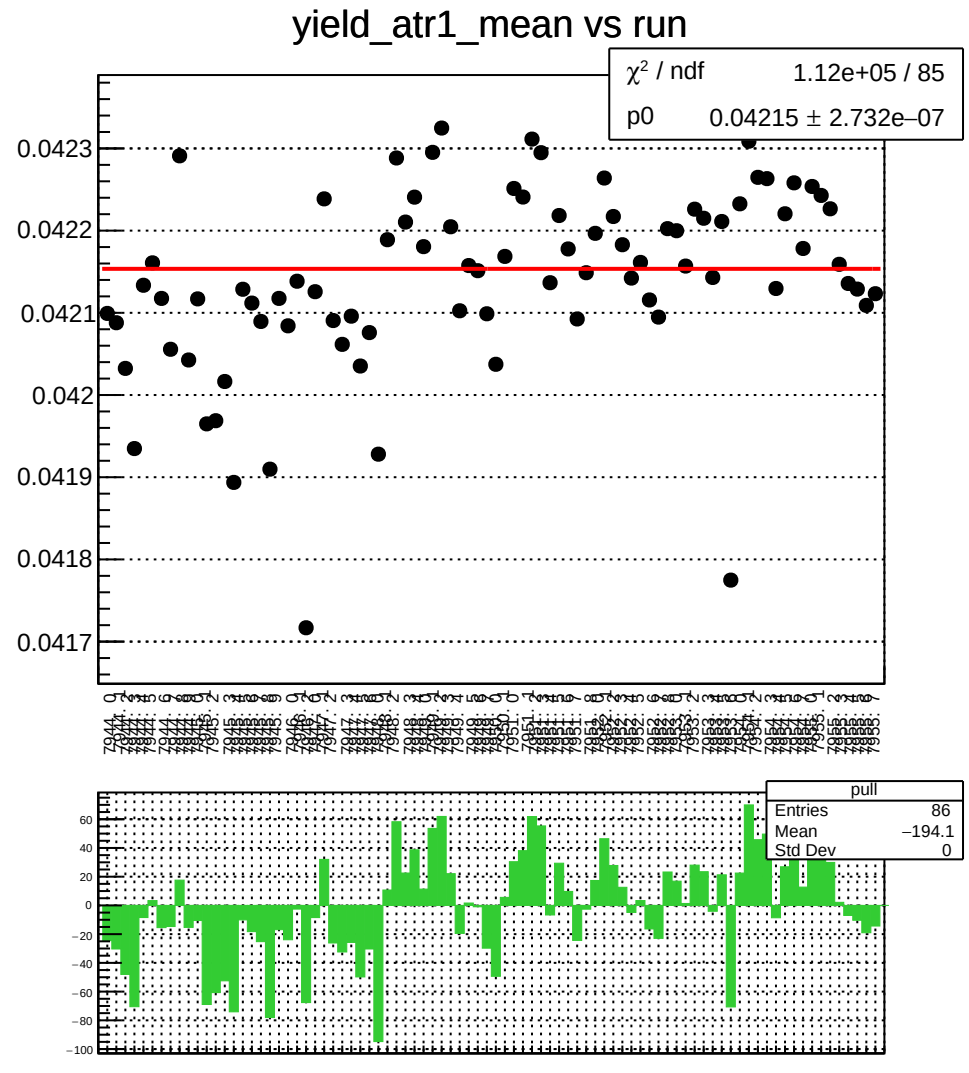

pull1D
Entries 86
Mean 1.583
Std Dev 4.44
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

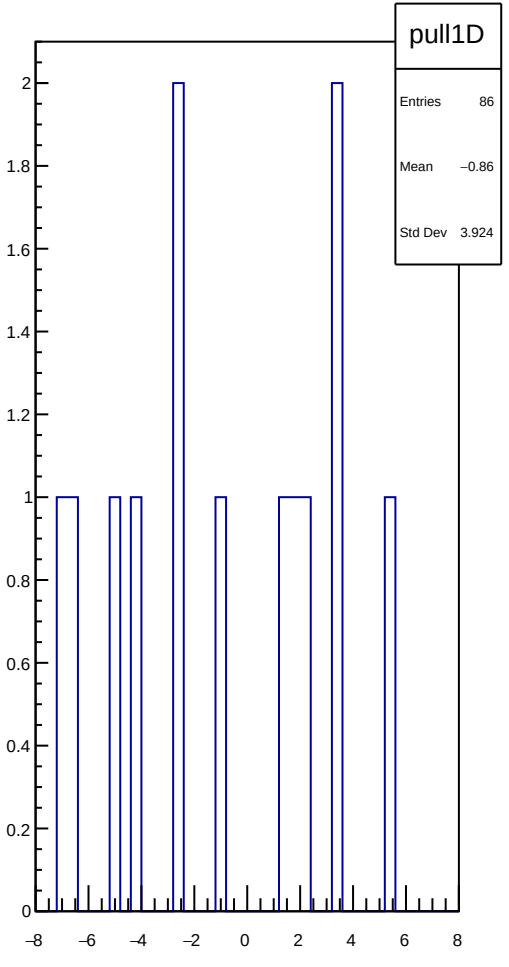

yield_atl1_rms vs run
×10⁻³
χ² / ndf 4.169e+04 / 85
p0 9.394e−05 ± 7.479e−08
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

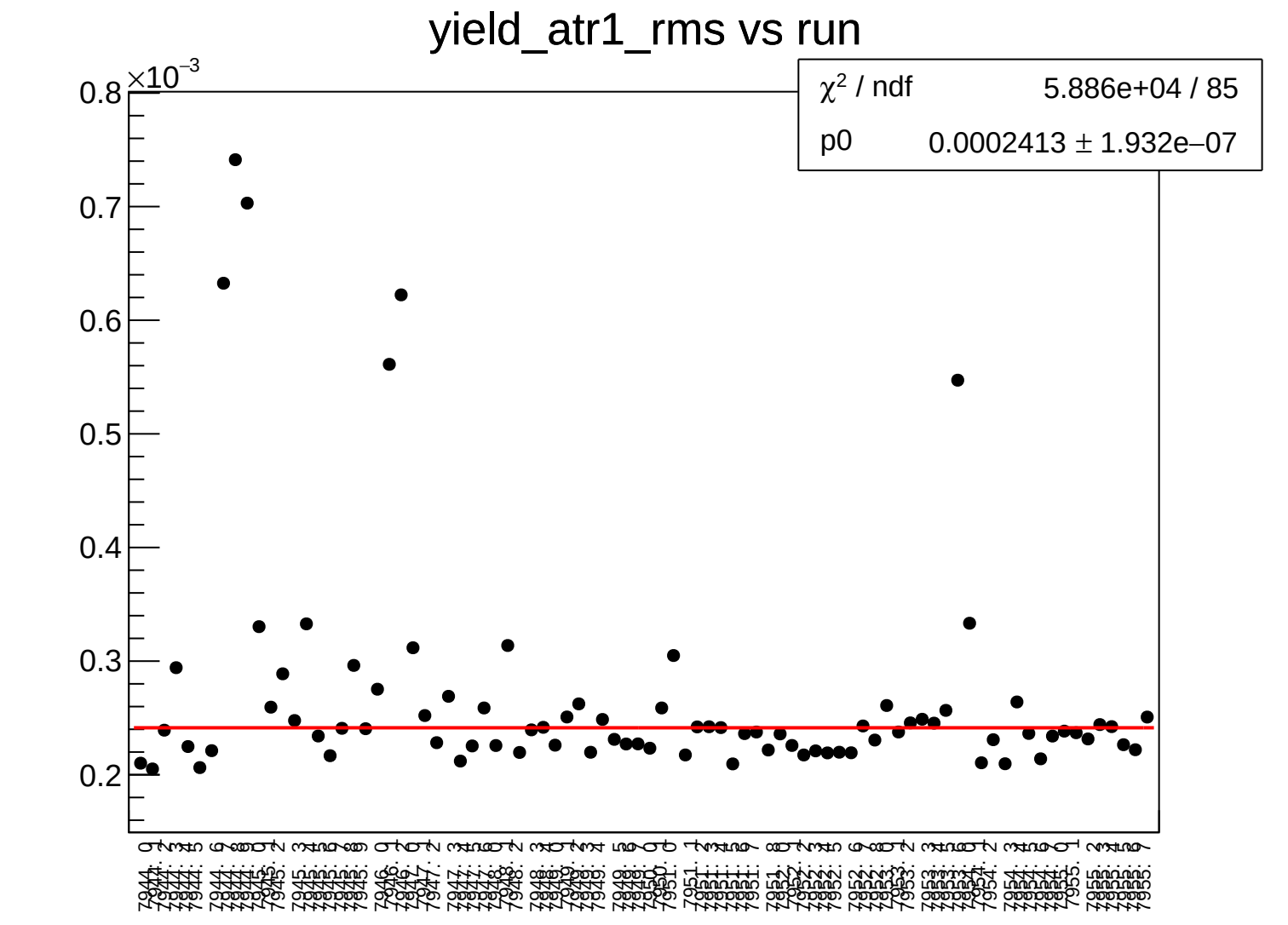

yield_atl2_mean vs run
χ² / ndf 2.292e+05 / 85
p0 0.03531± 7.435e−07
0.0365
0.036
0.0355
0.035
0.0345
0.034
pull
Entries 86
Mean −787.3
Std Dev 0
100
50
0
−50
−100

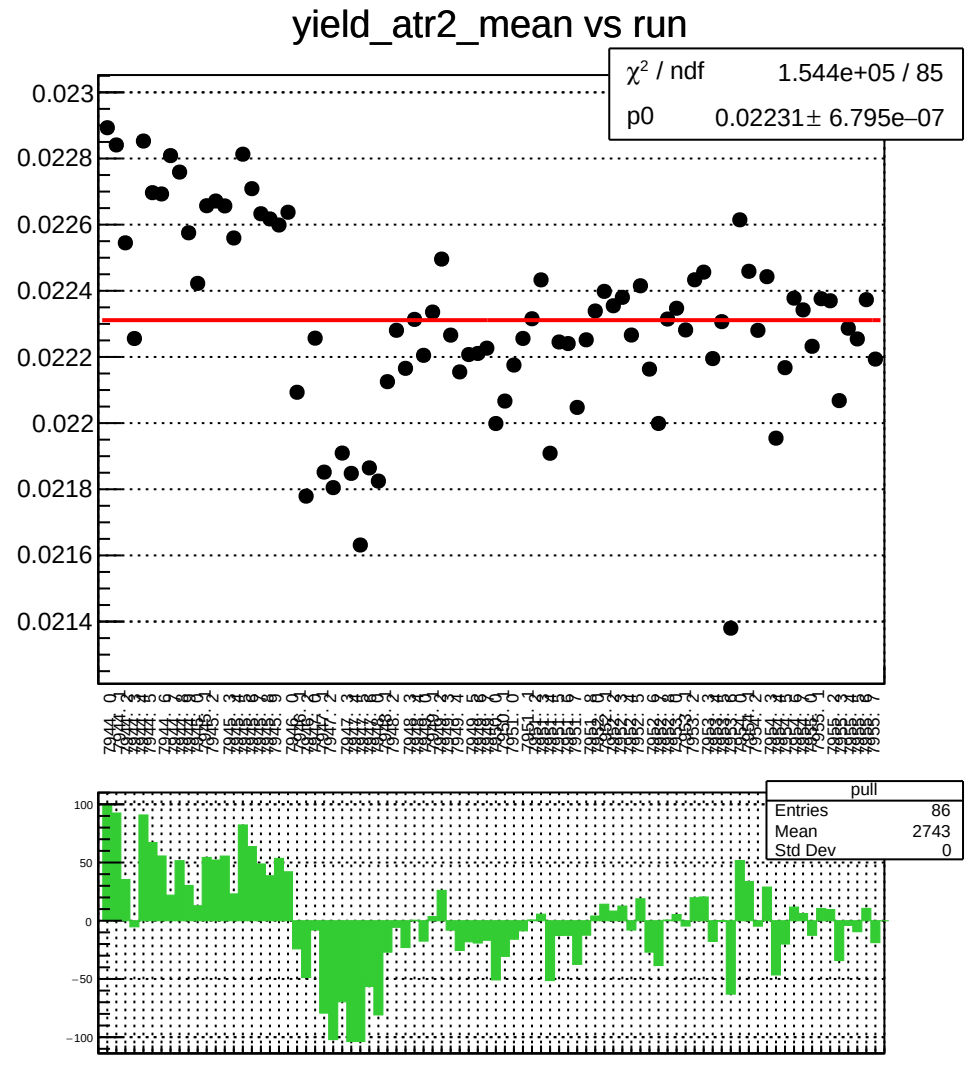

pull1D
Entries 86
Mean −2.884
Std Dev 3.954
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

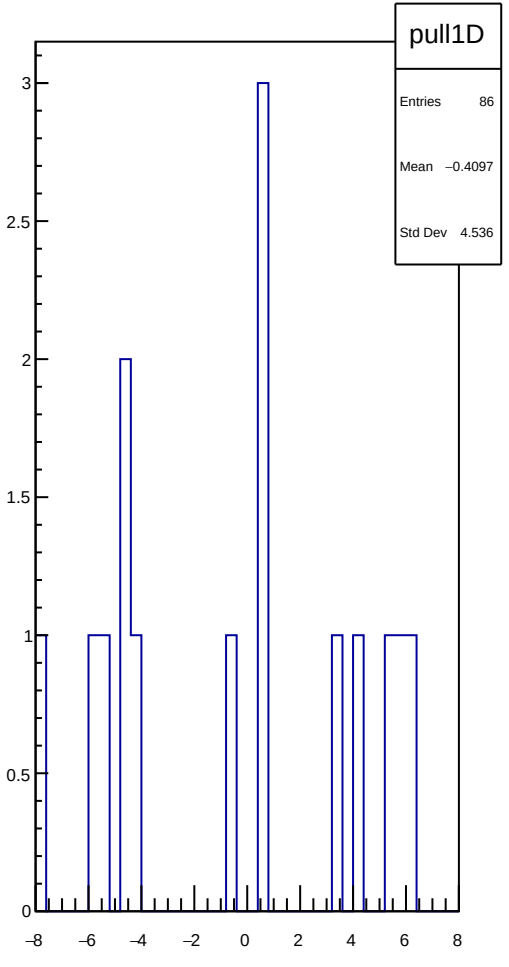

yield_atl2_rms vs run
χ² / ndf 7.027e+04 / 85
p0 0.0006543 ± 5.258e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

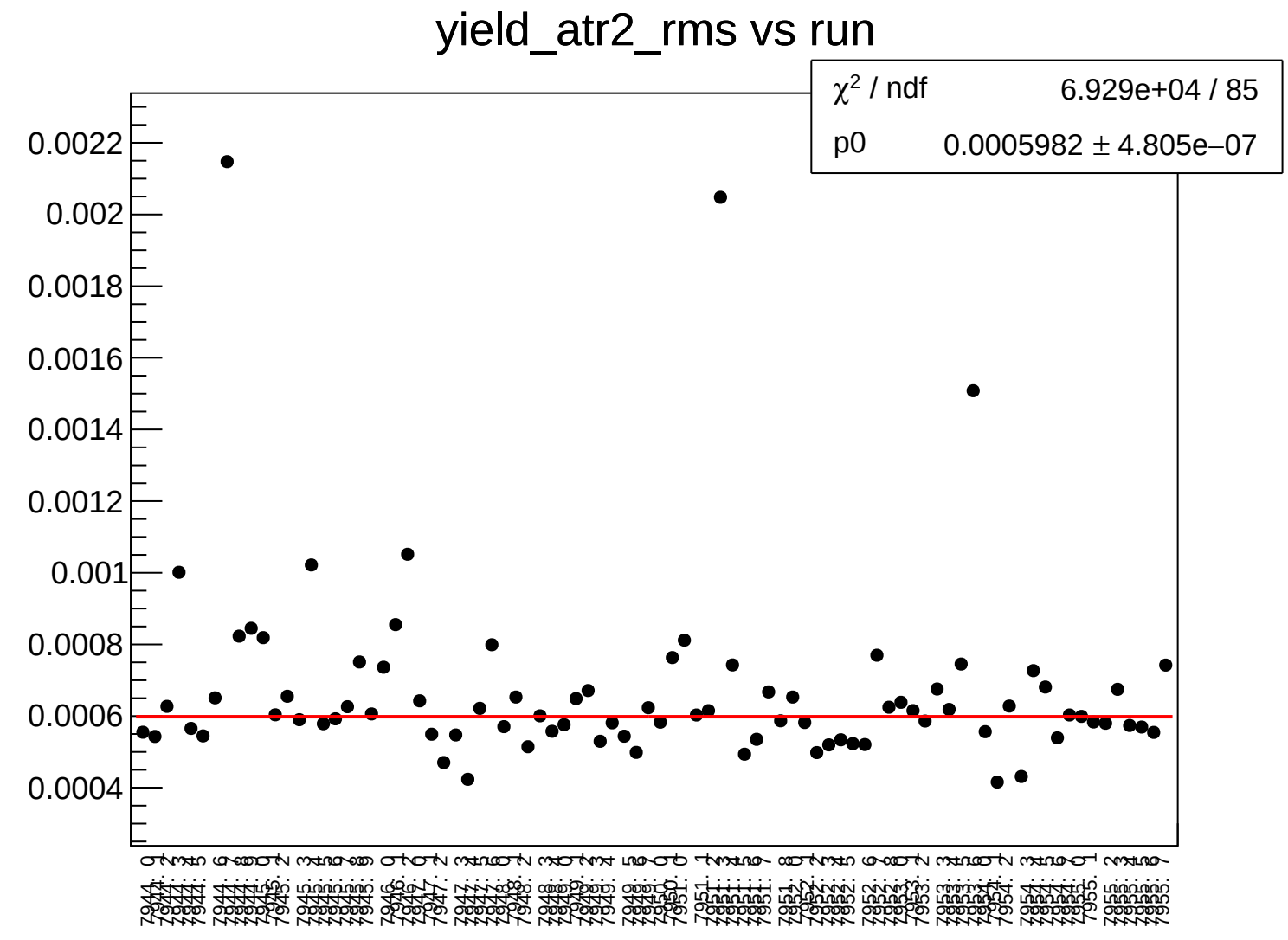

yield_atr1_mean vs run
χ² / ndf 1.12e+05 / 85
p0 0.04215 ± 2.732e−07
0.0423
0.0422
0.0421
0.042
0.0419
0.0418
0.0417
pull
Entries 86
Mean −194.1
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

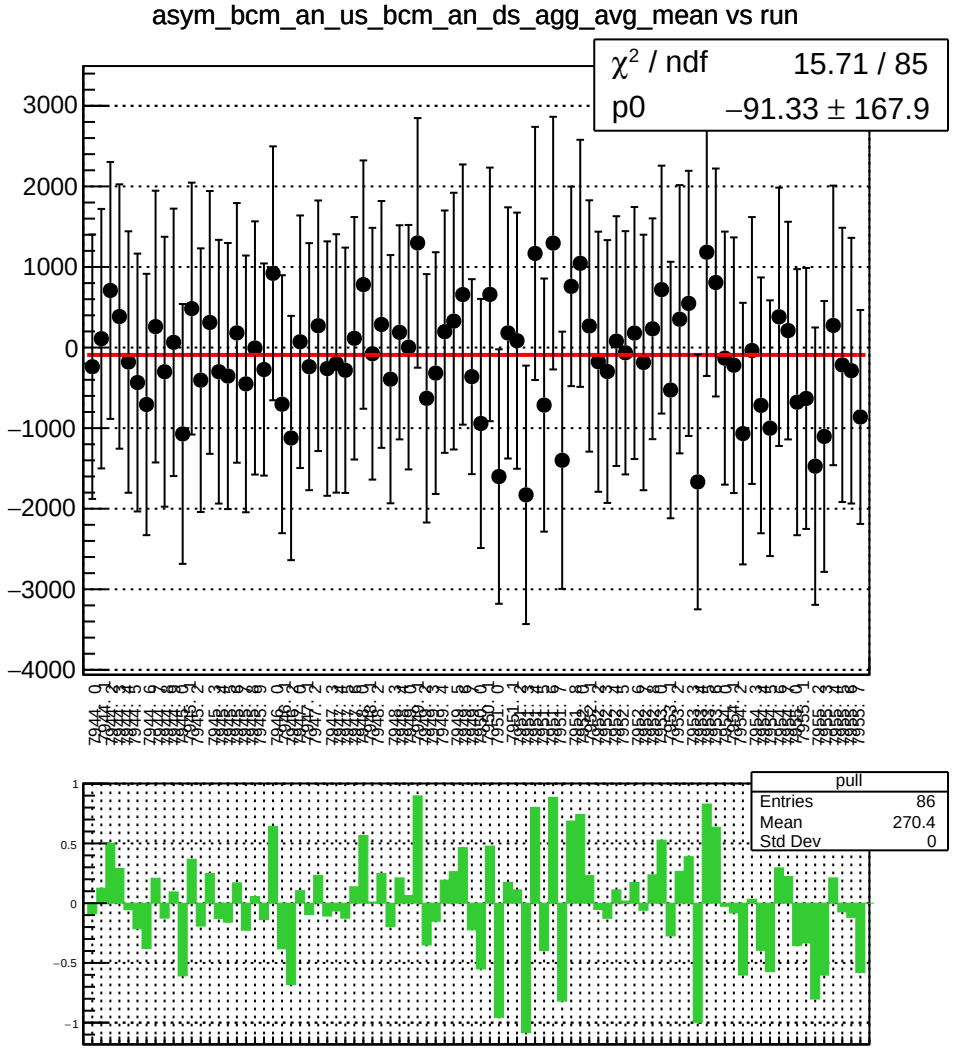

pull1D
Entries 86
Mean −0.86
Std Dev 3.924
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

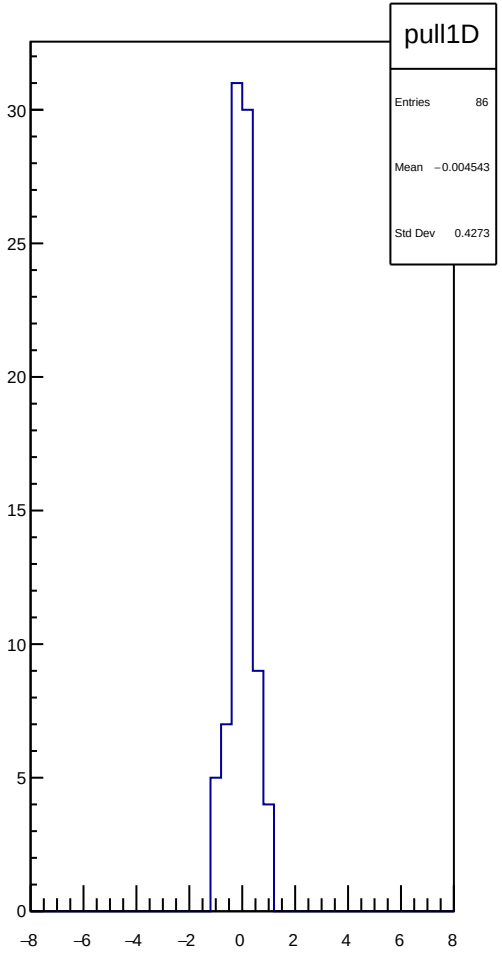

yield_atr1_rms vs run
χ^2 / ndf 5.886e+04 / 85
p0 0.0002413 ± 1.932e−07
$\times 10^{-3}$
0.8
0.7
0.6
0.5
0.4
0.3
0.2

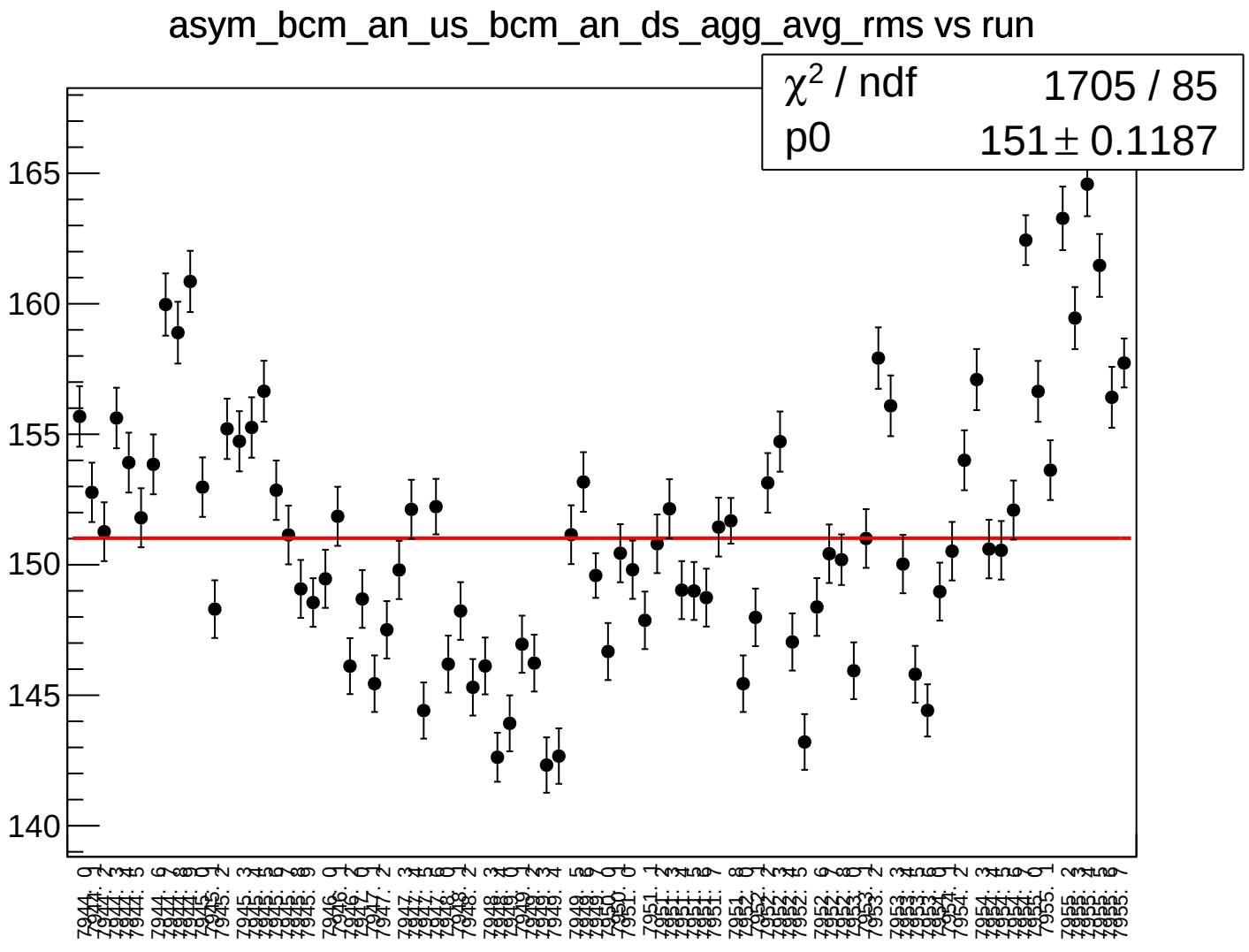

yield_atr2_mean vs run
χ² / ndf 1.544e+05 / 85
p0 0.02231± 6.795e−07
0.023
0.0228
0.0226
0.0224
0.0222
0.022
0.0218
0.0216
0.0214
pull
Entries 86
Mean 2743
Std Dev 0
100
50
0
−50
−100

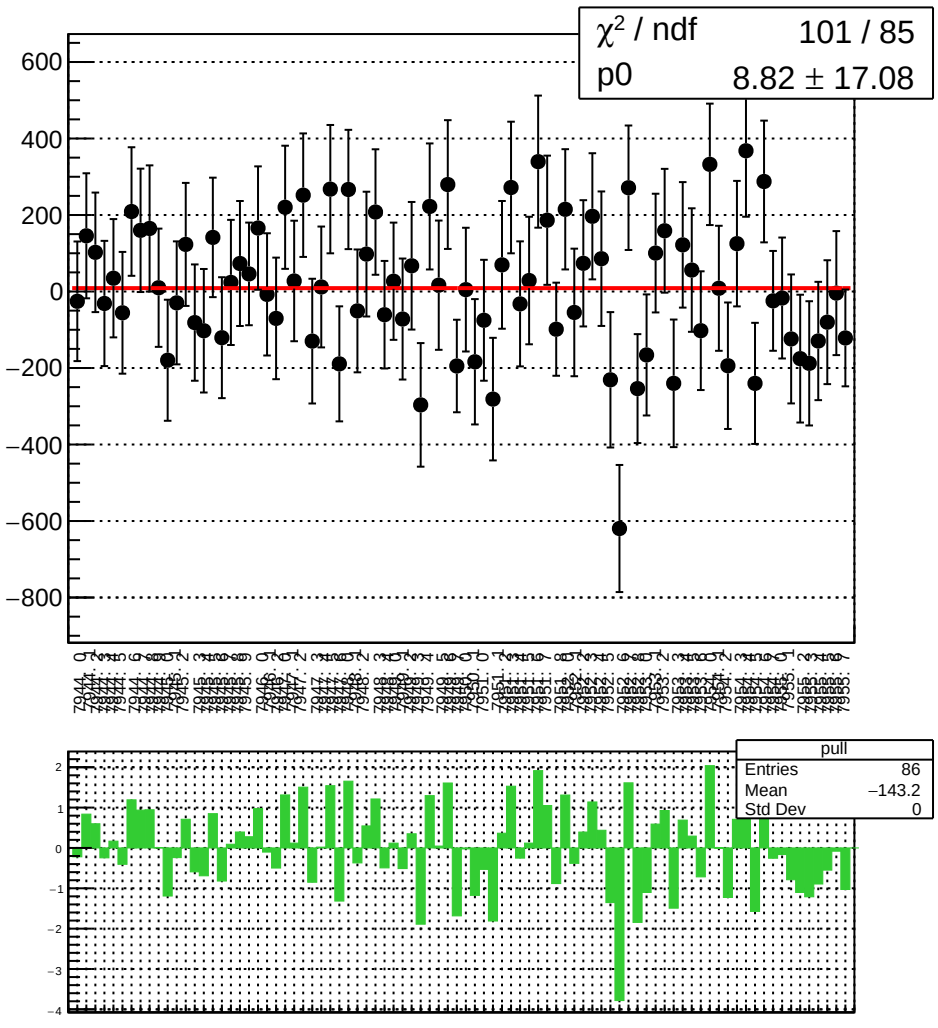

pull1D
Entries 86
Mean −0.4097
Std Dev 4.536
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

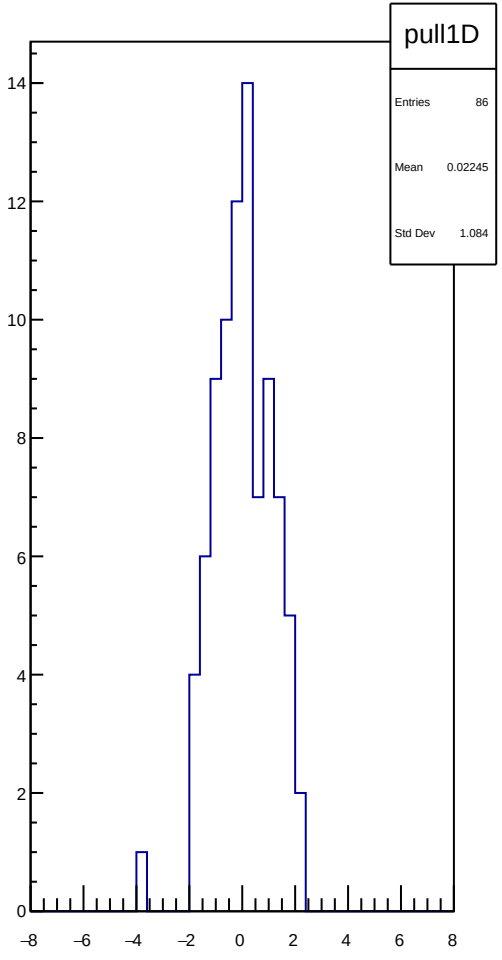

yield_atr2_rms vs run
χ² / ndf 6.929e+04 / 85
p0 0.0005982 ± 4.805e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

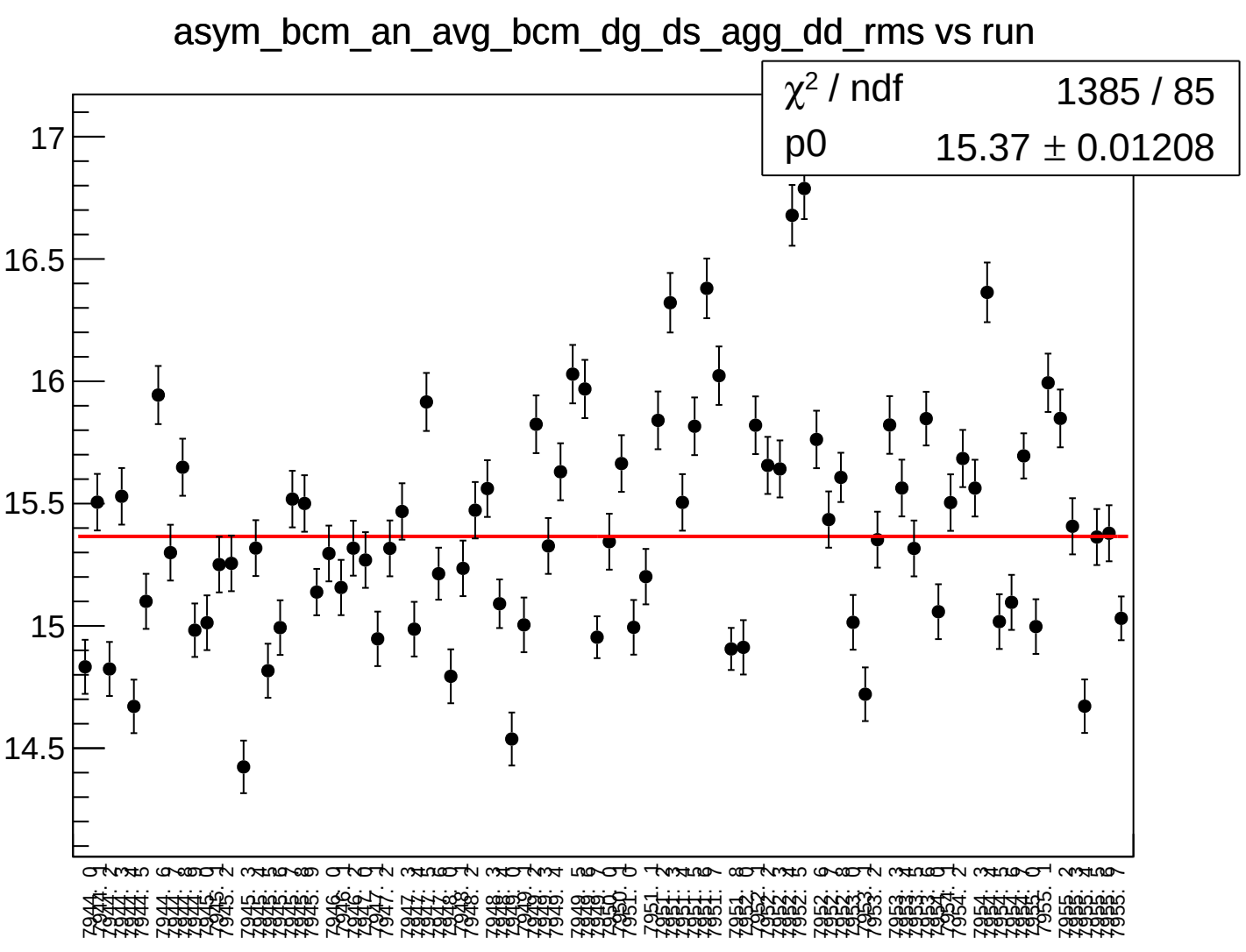

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.71 / 85
p0 −91.33 ± 167.9
pull
Entries 86
Mean 270.4
Std Dev 0

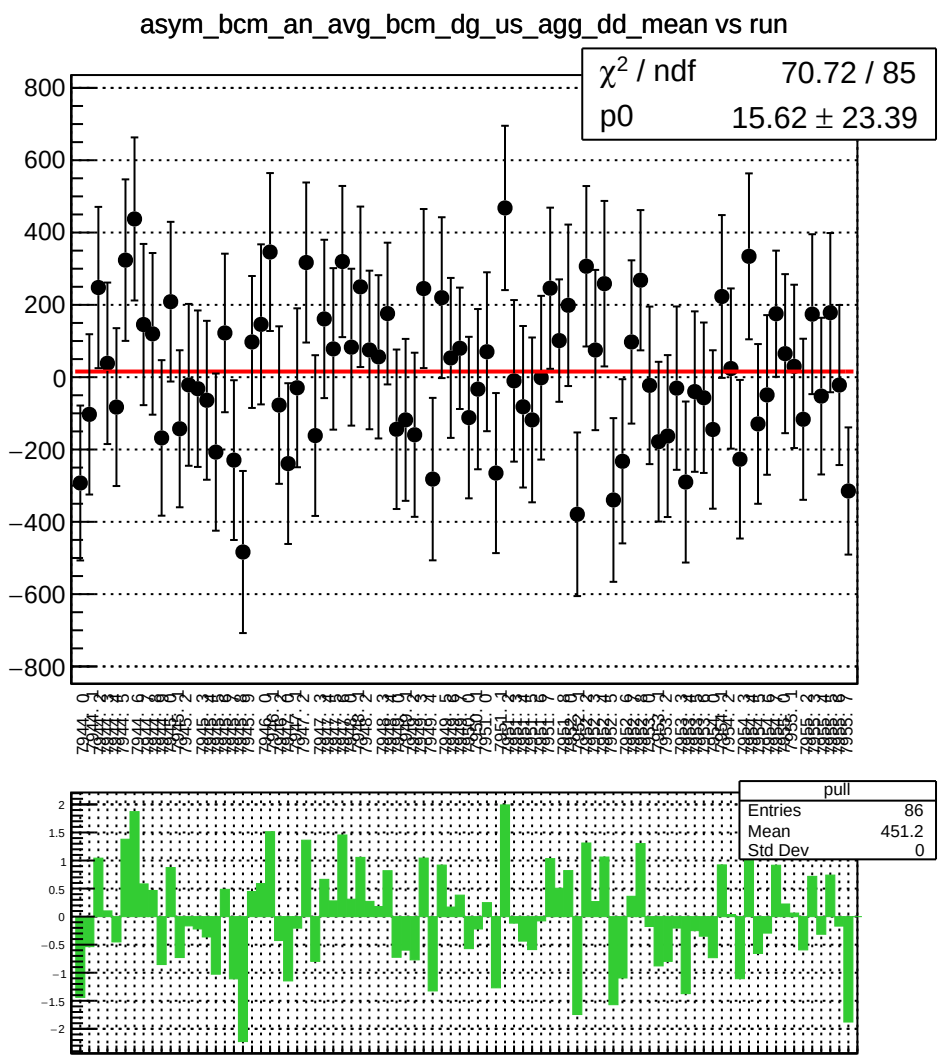

pull1D
Entries 86
Mean −0.004543
Std Dev 0.4273

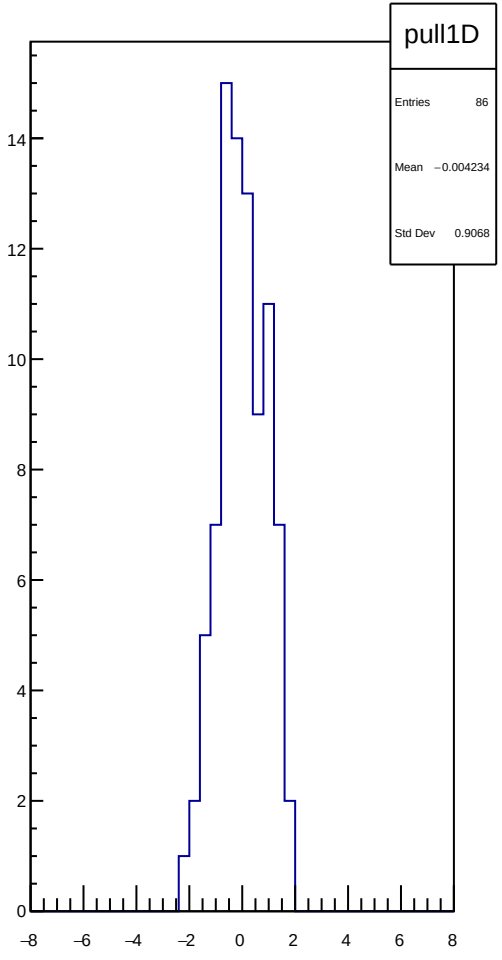

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1705 / 85
p0 151 ± 0.1187
165
160
155
150
145
140

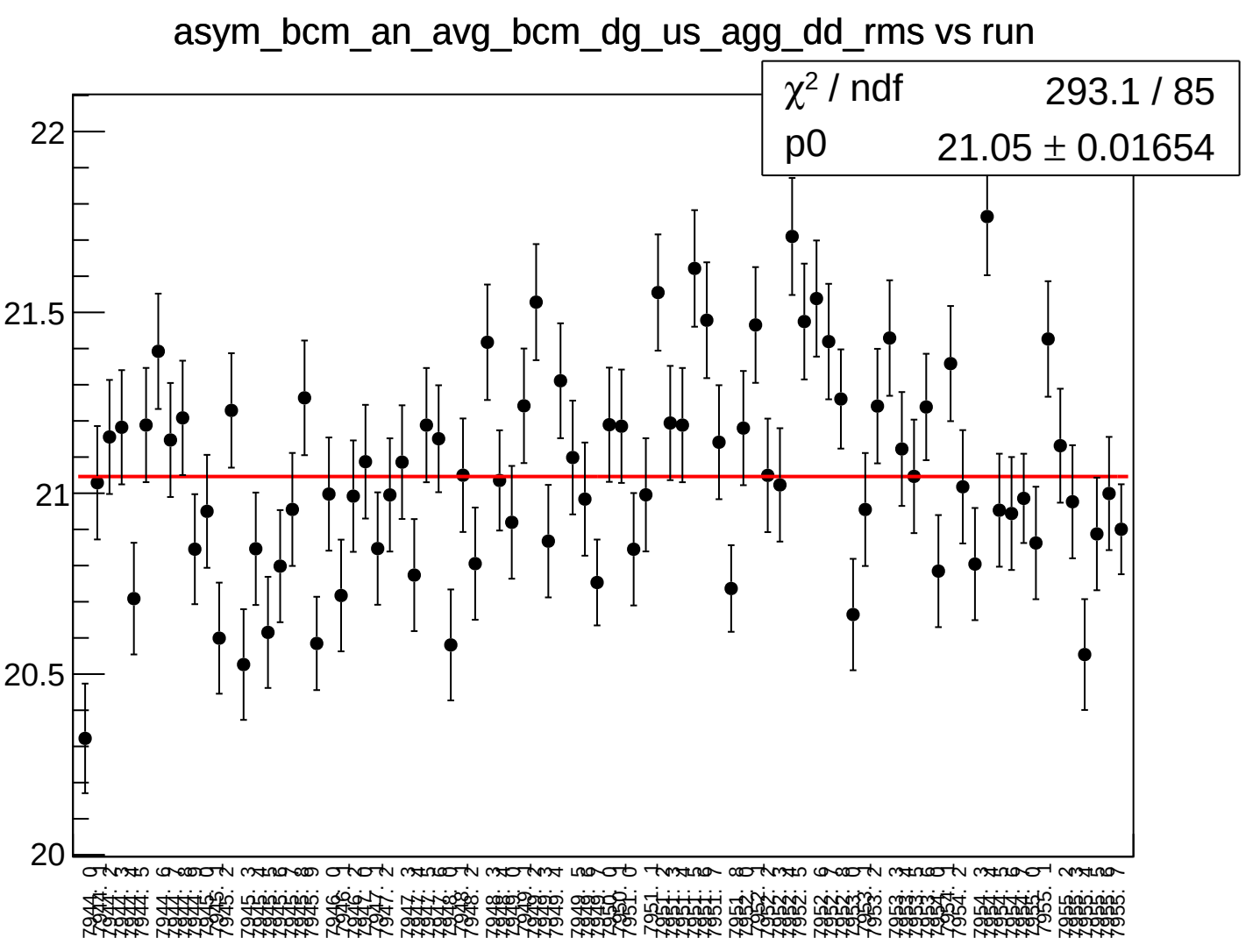

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 101 / 85
p0 8.82 ± 17.08
pull
Entries 86
Mean −143.2
Std Dev 0

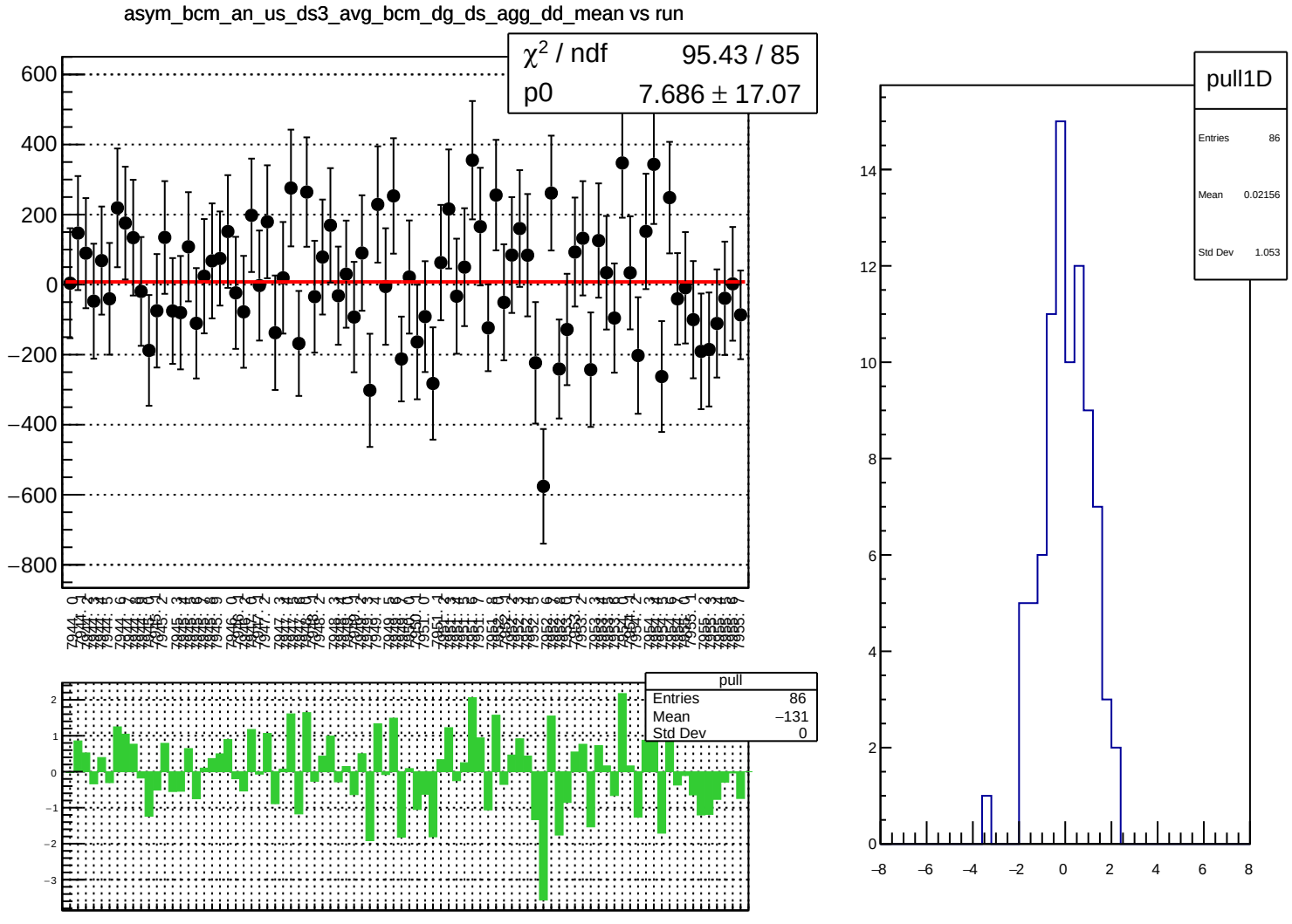

pull1D
Entries 86
Mean 0.02245
Std Dev 1.084

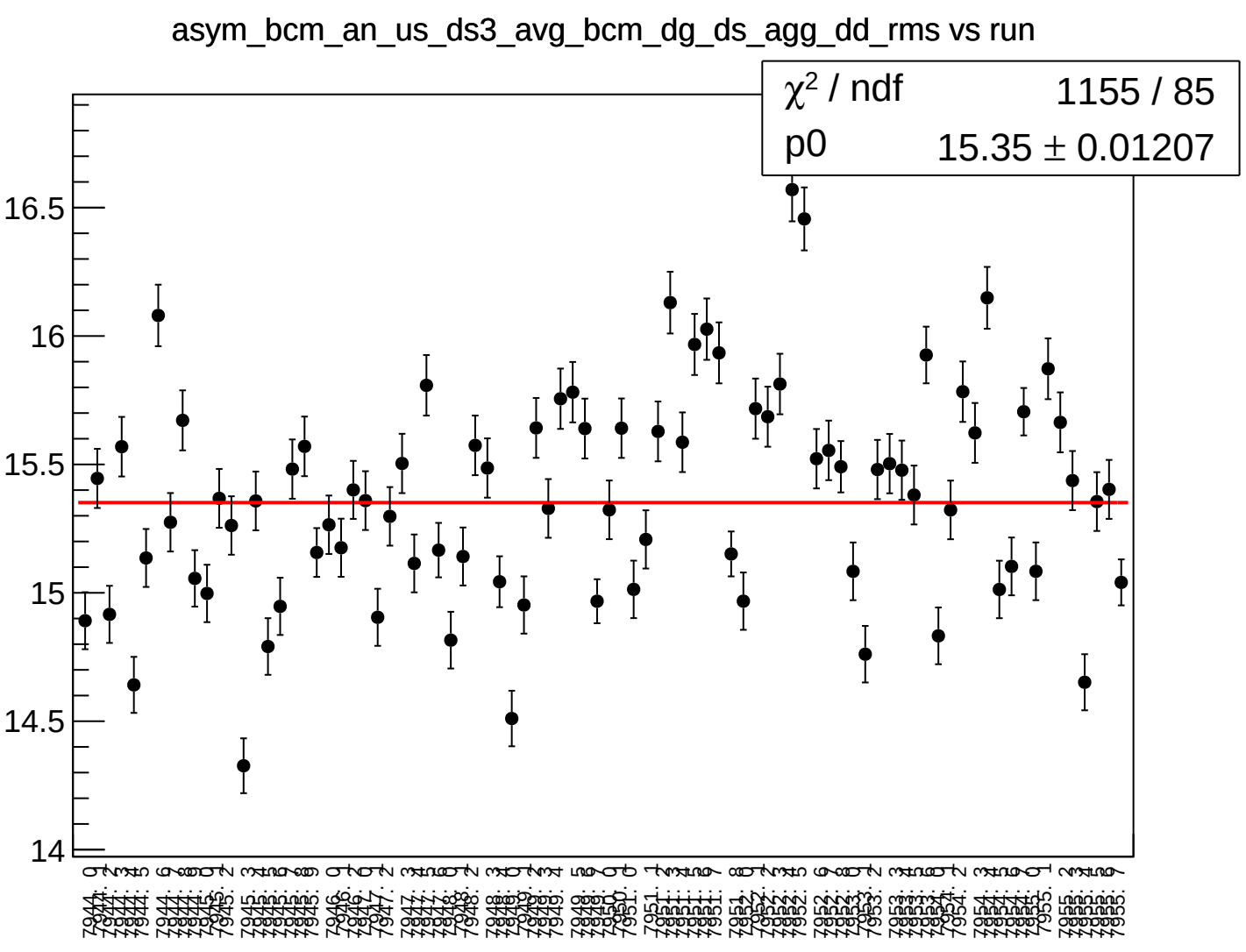

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ^2 / ndf 1385 / 85
p0 15.37 ± 0.01208
17
16.5
16
15.5
15
14.5

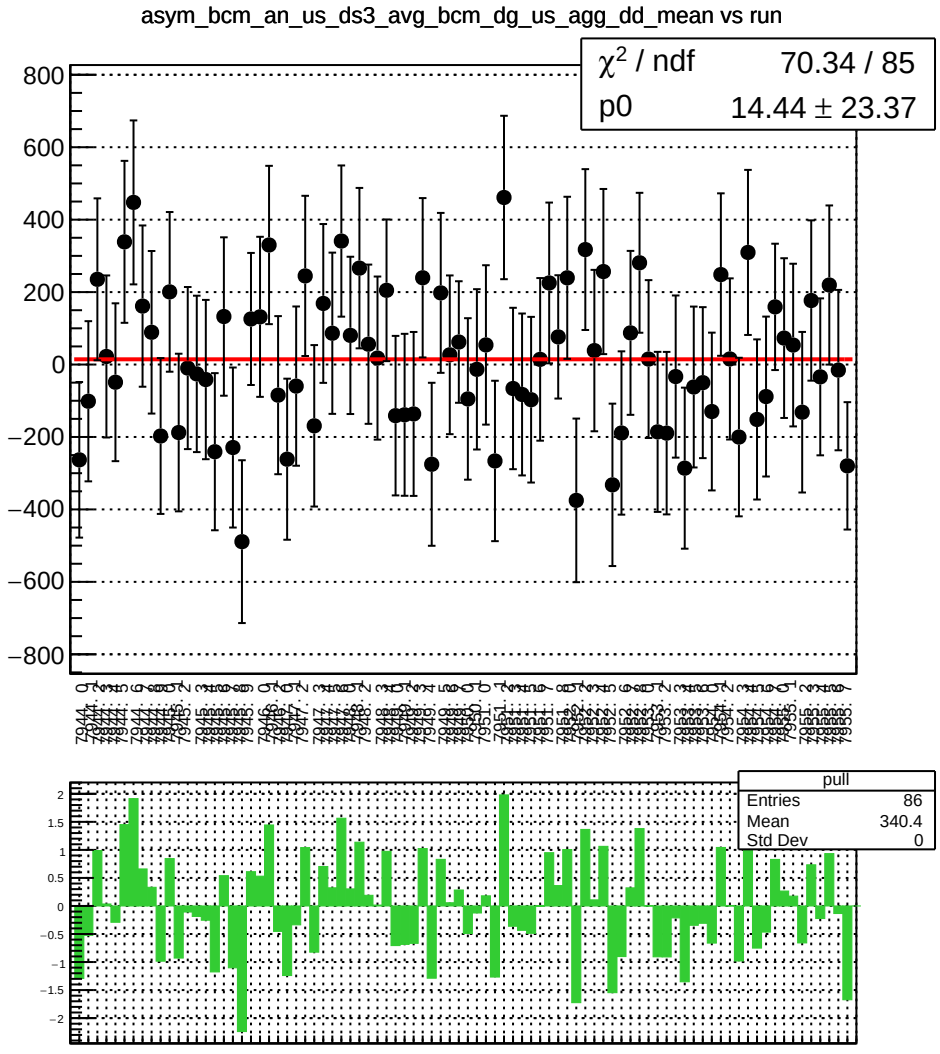

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.72 / 85
p0 15.62 ± 23.39
pull
Entries 86
Mean 451.2
Std Dev 0

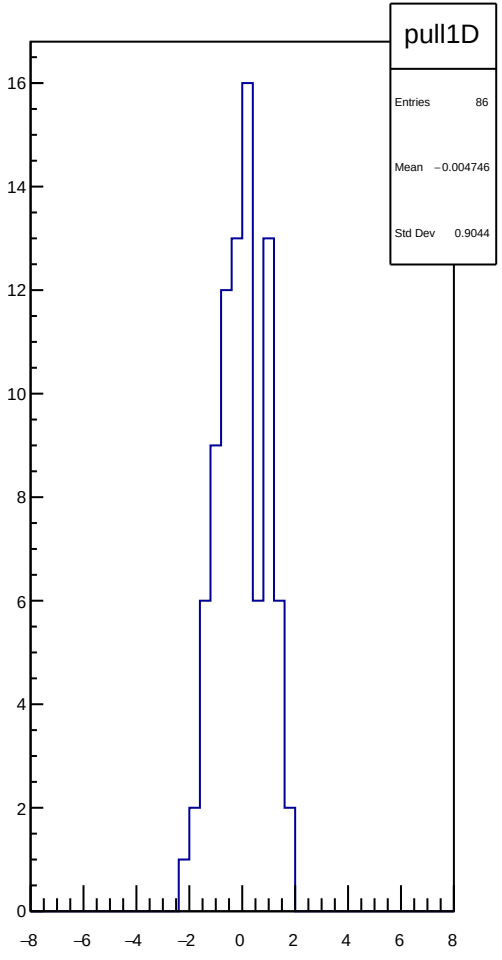

pull1D
Entries 86
Mean −0.004234
Std Dev 0.9068

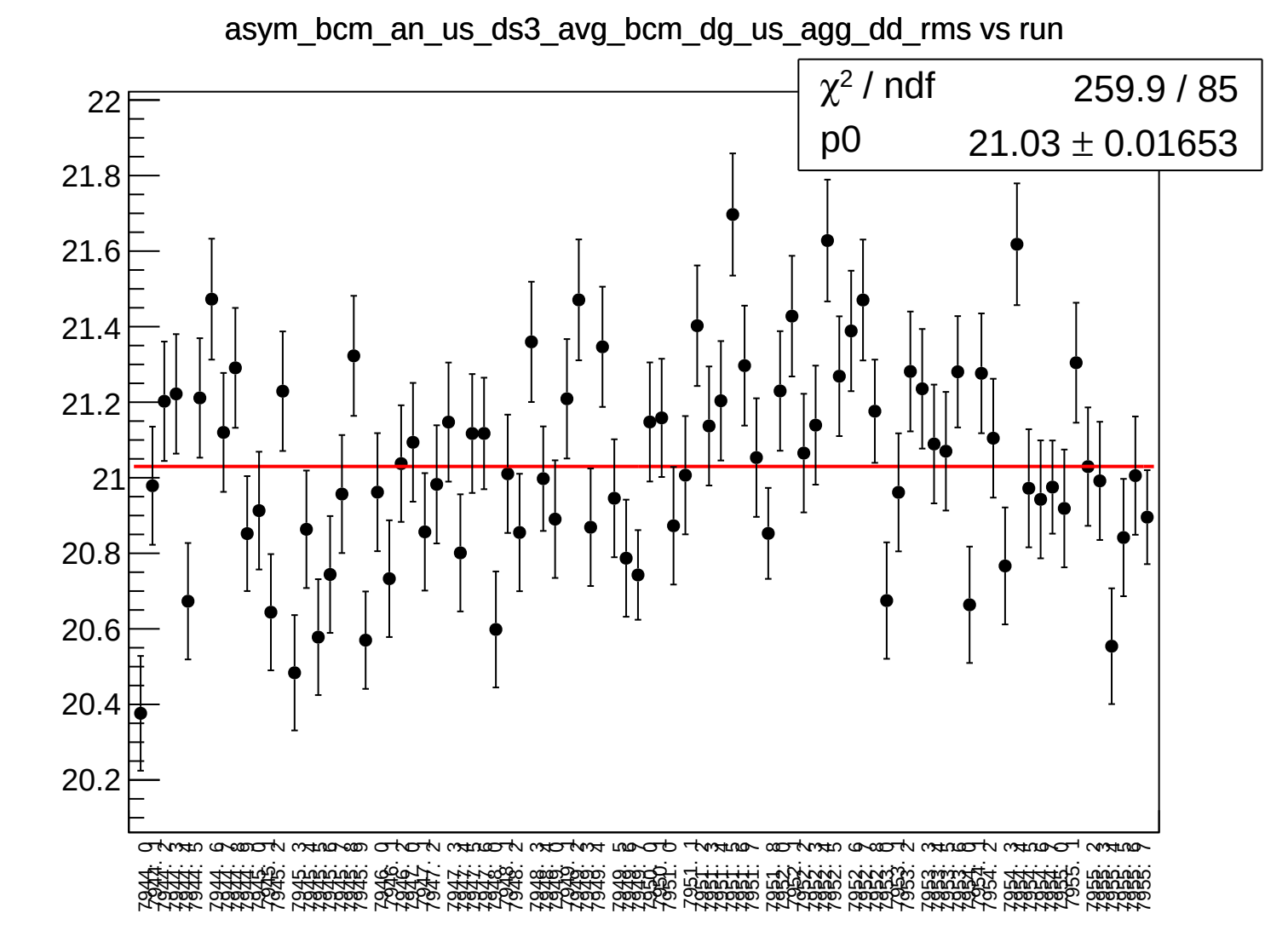

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 293.1 / 85
p0 21.05 ± 0.01654
22
21.5
21
20.5
20

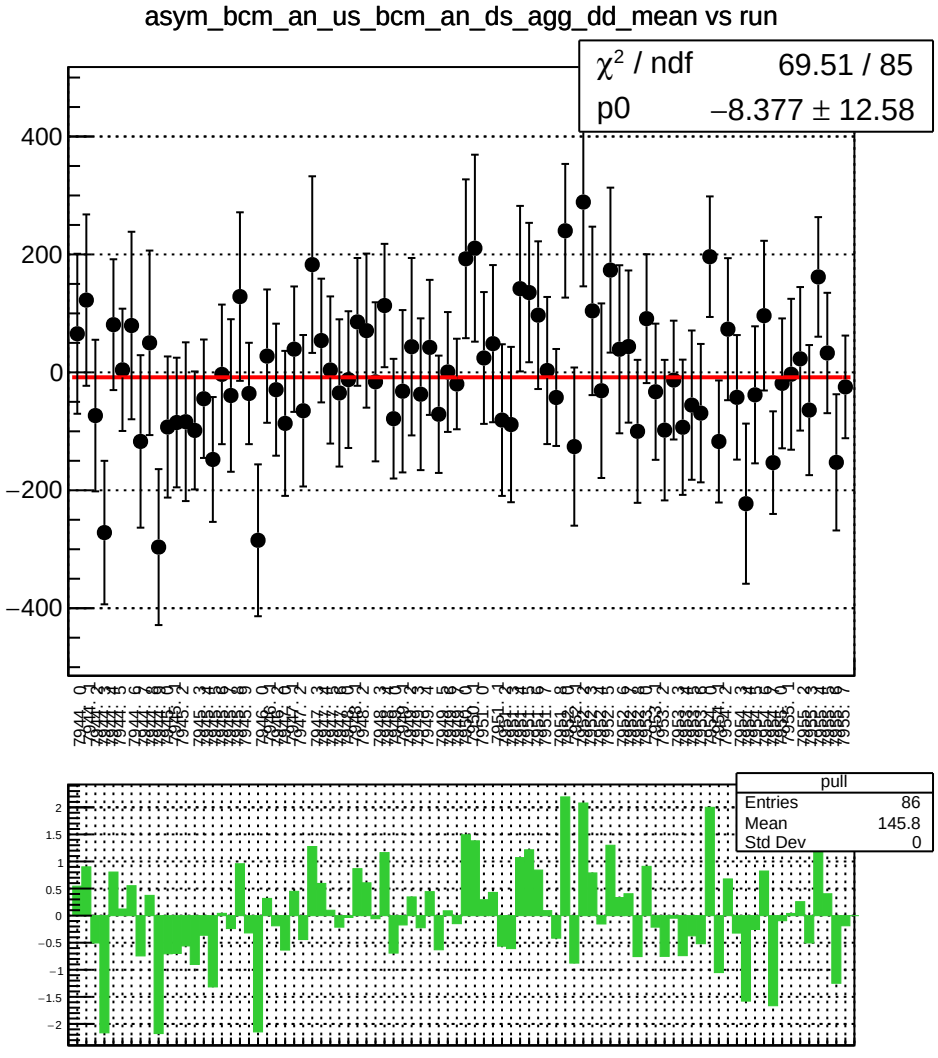

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 95.43 / 85
p0 7.686 ± 17.07
pull
Entries 86
Mean −131
Std Dev 0
pull1D
Entries 86
Mean 0.02156
Std Dev 1.053

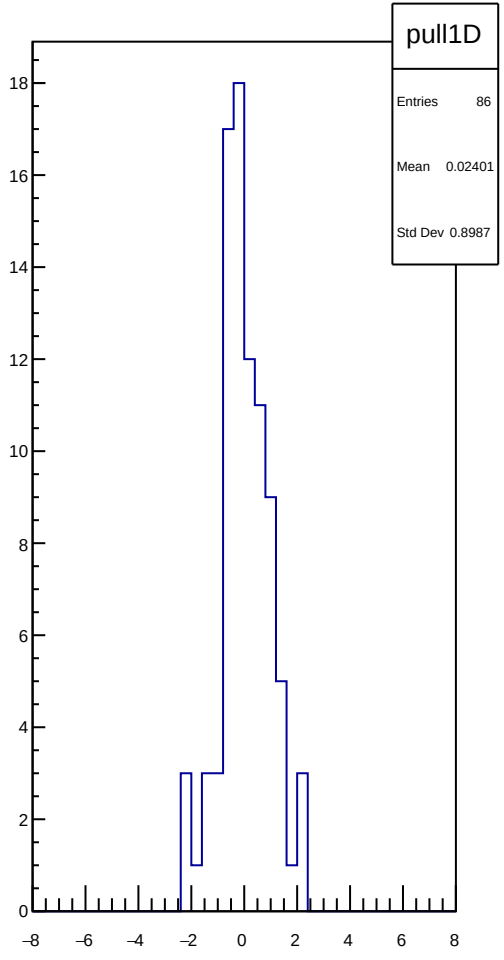

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1155 / 85
p0 15.35 ± 0.01207
16.5
16
15.5
15
14.5
14

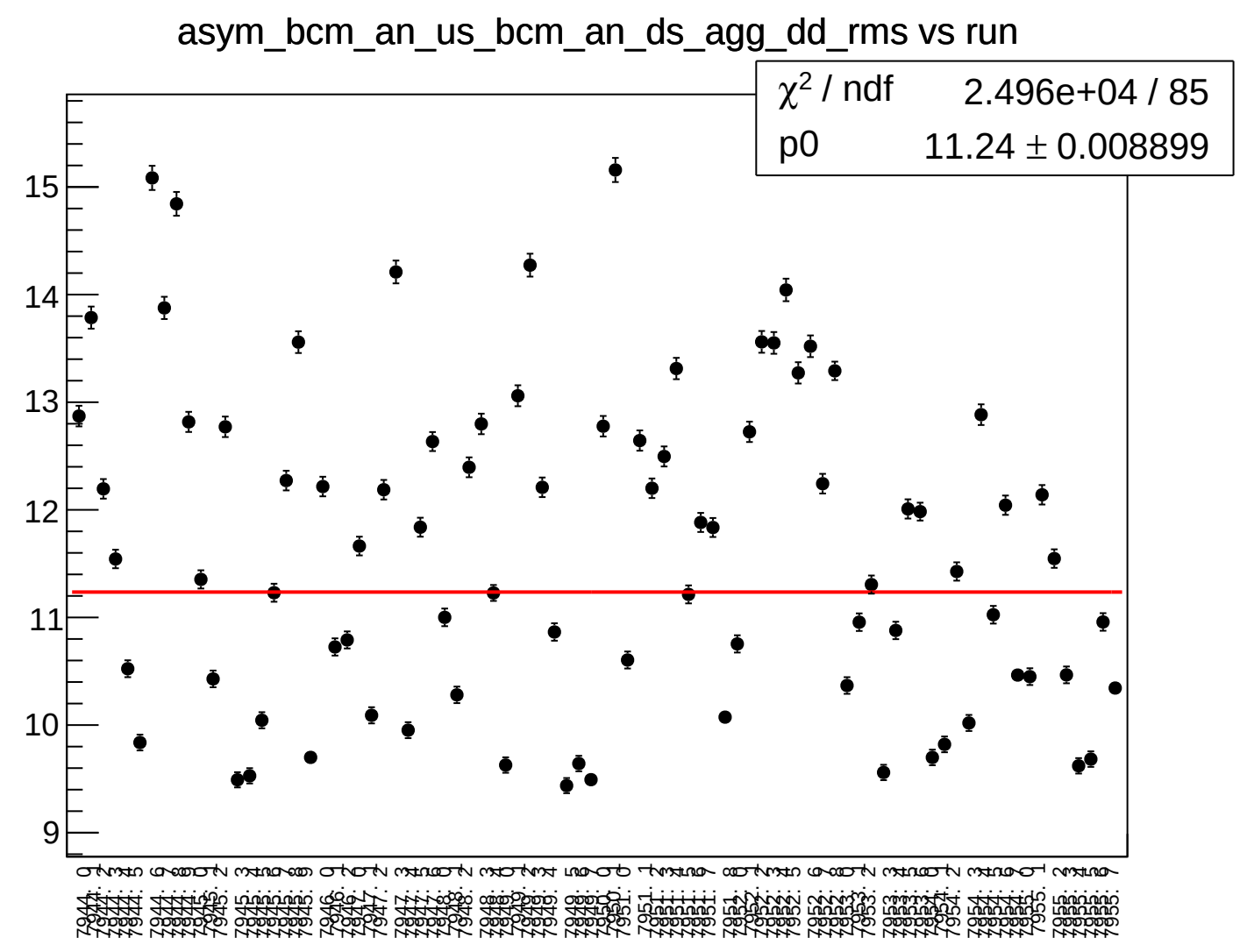

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.34 / 85
p0 14.44 ± 23.37
pull
Entries 86
Mean 340.4
Std Dev 0

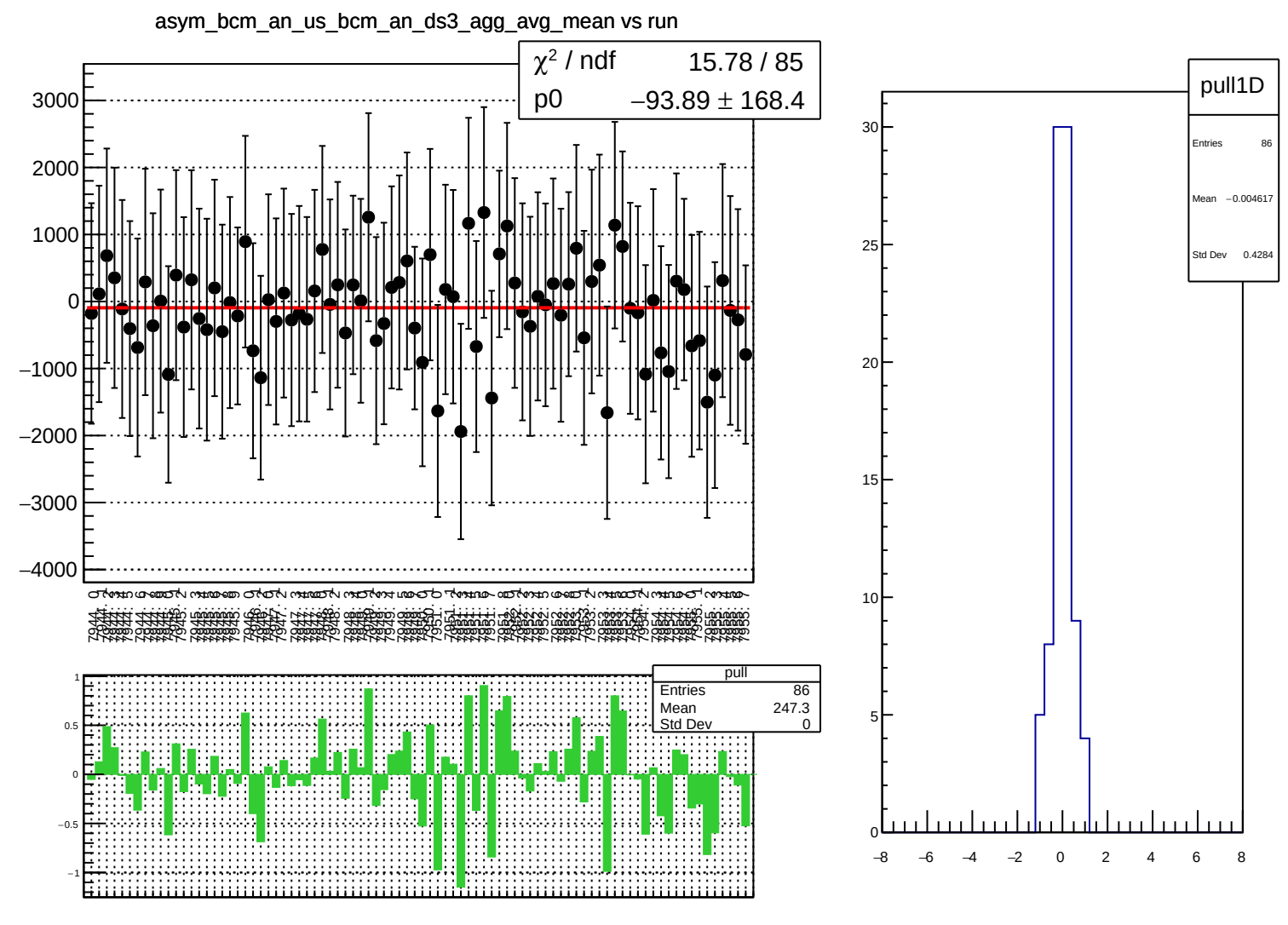

pull1D
Entries 86
Mean −0.004746
Std Dev 0.9044

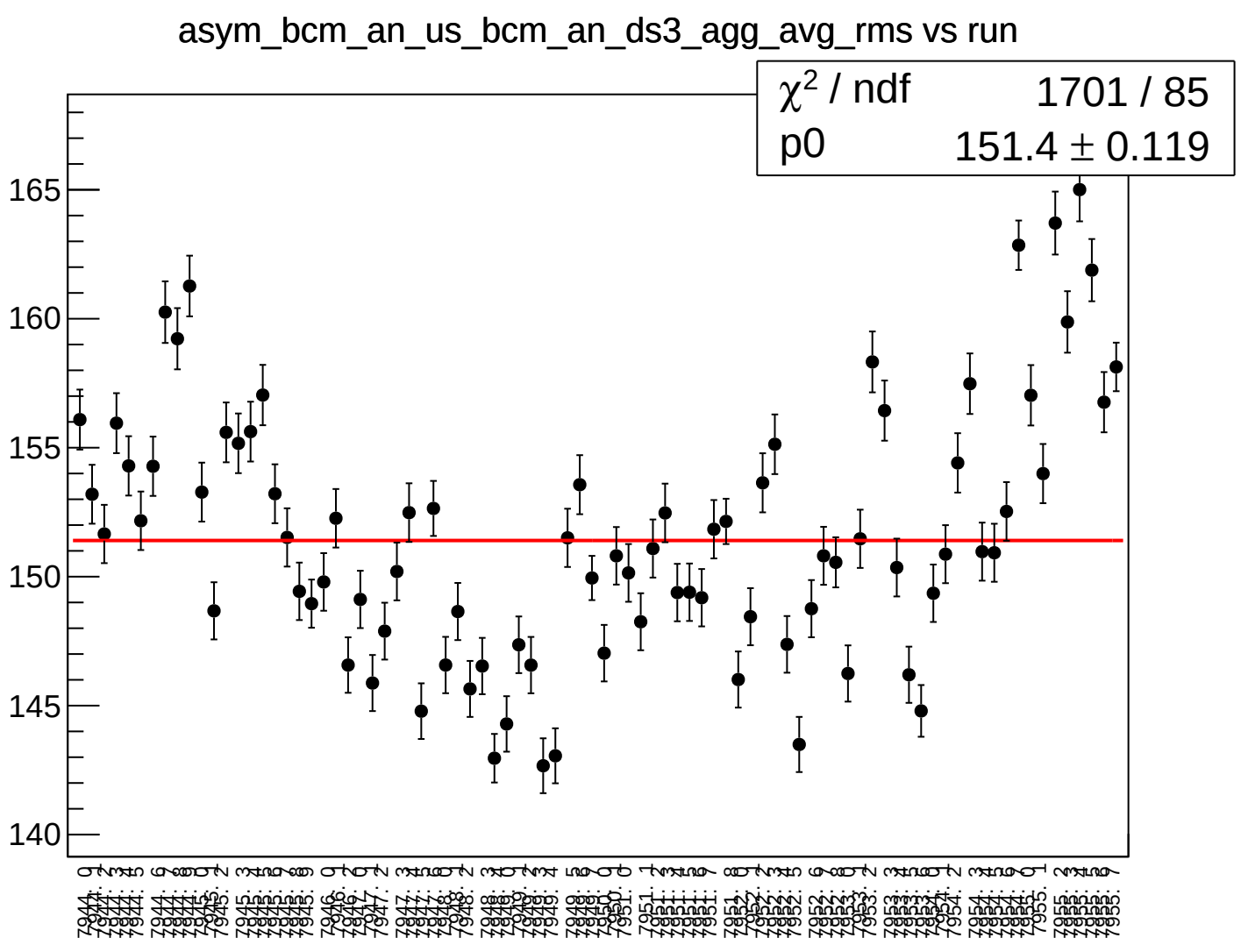

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 259.9 / 85
p0 21.03 ± 0.01653
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

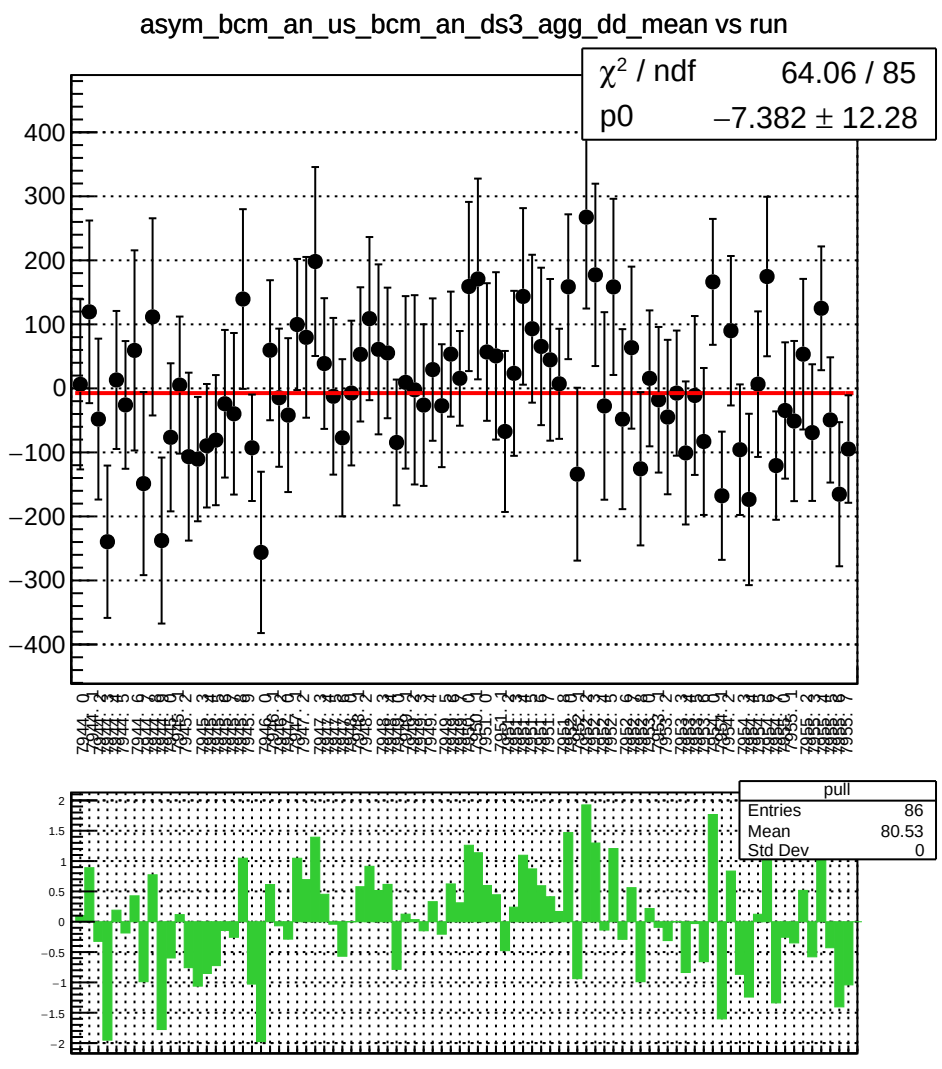

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 69.51 / 85
p0 −8.377 ± 12.58
400
200
0
−200
−400
pull
Entries 86
Mean 145.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

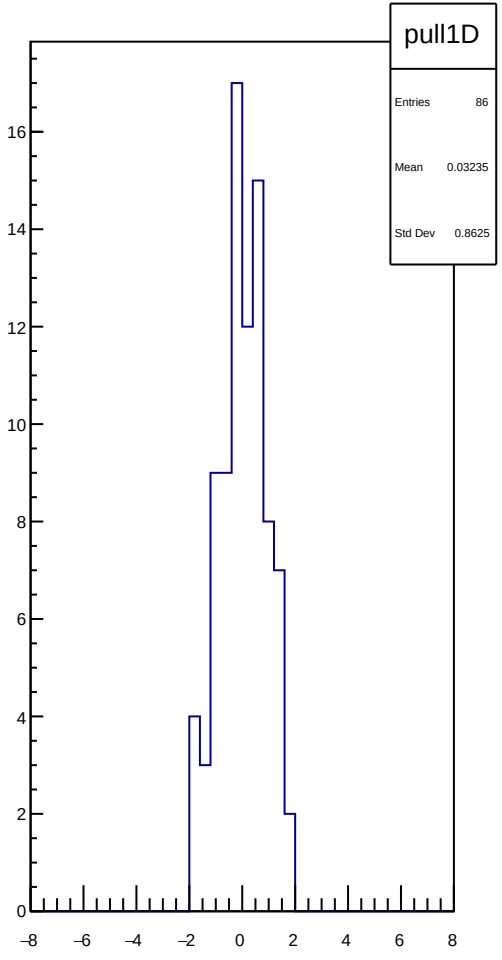

pull1D
Entries 86
Mean 0.02401
Std Dev 0.8987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

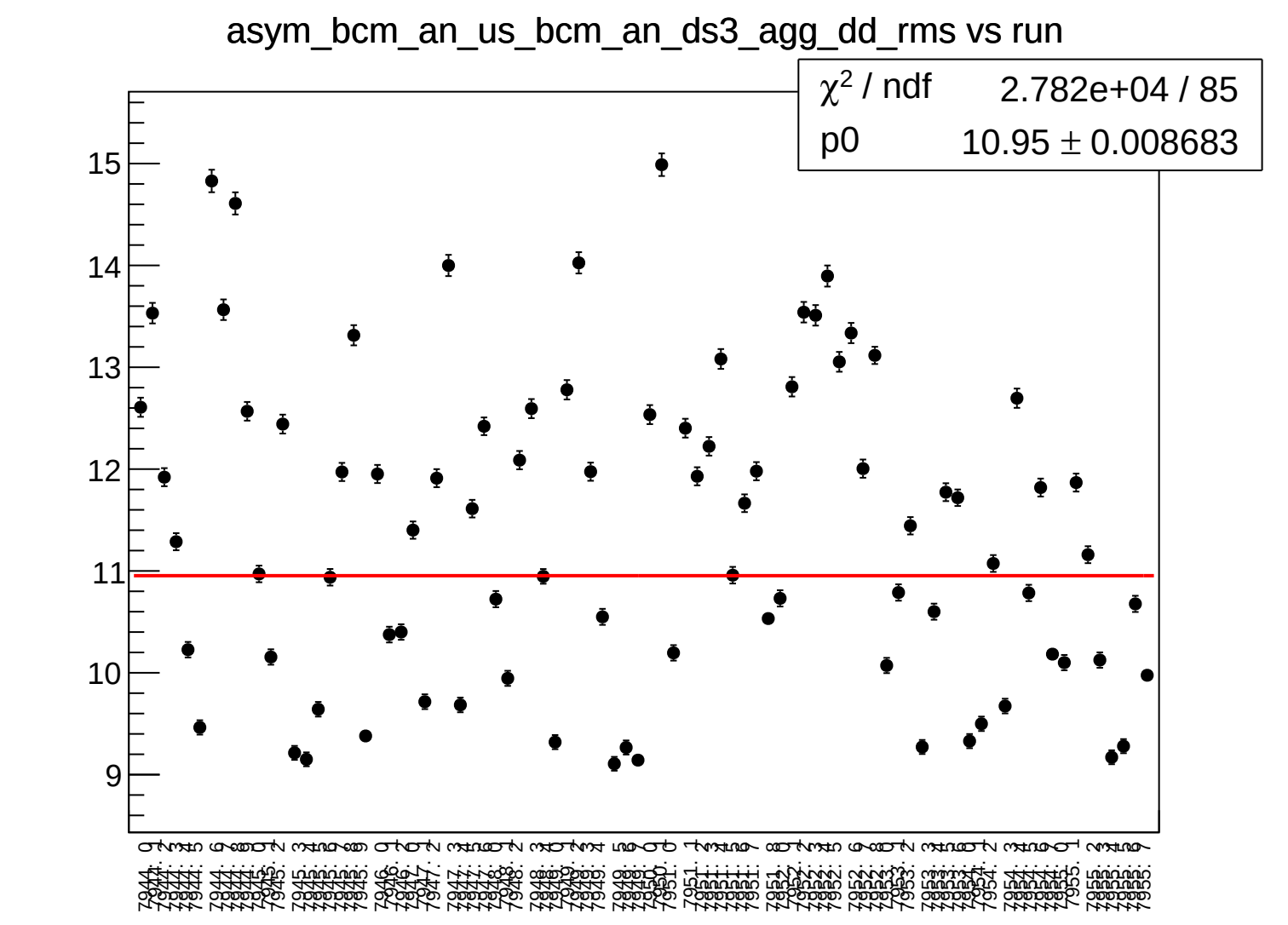

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.496e+04 / 85
p0 11.24 ± 0.008899
15
14
13
12
11
10
9

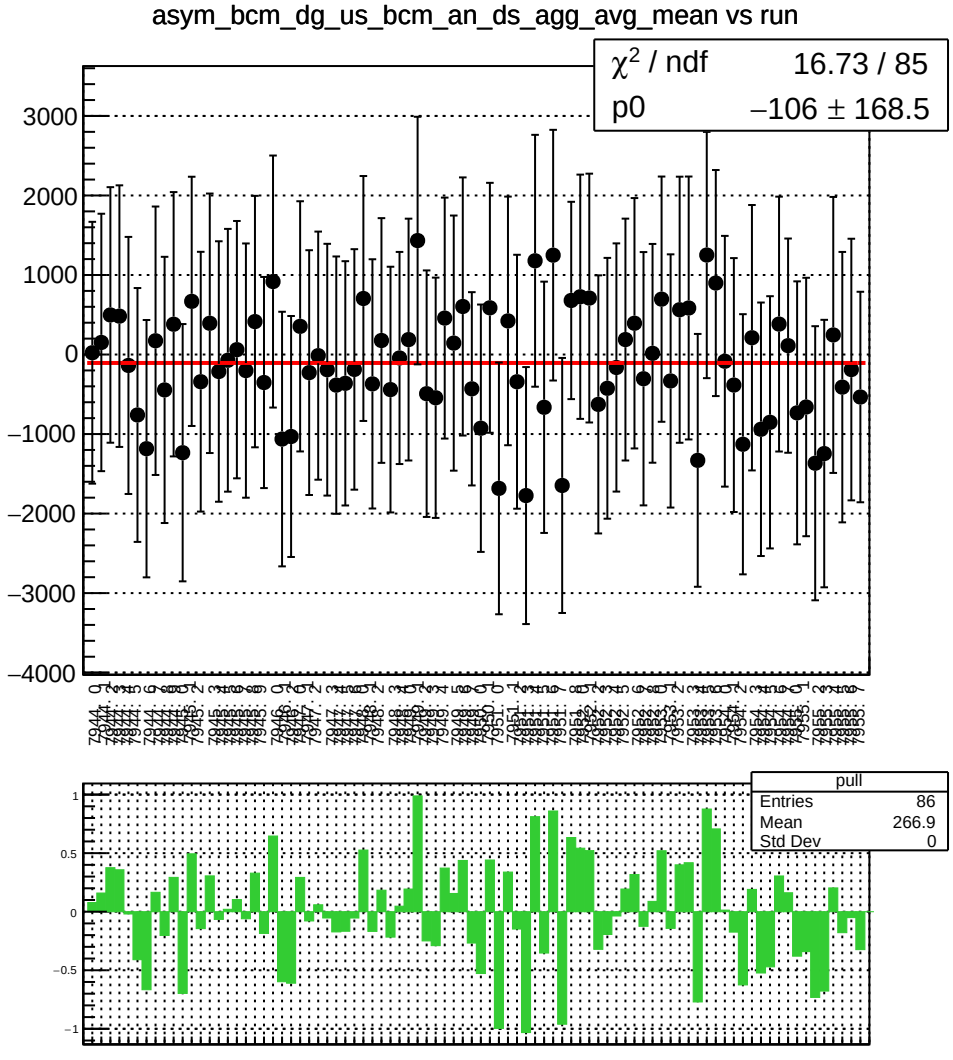

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 15.78 / 85
p0 −93.89 ± 168.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean 247.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.004617
Std Dev 0.4284
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

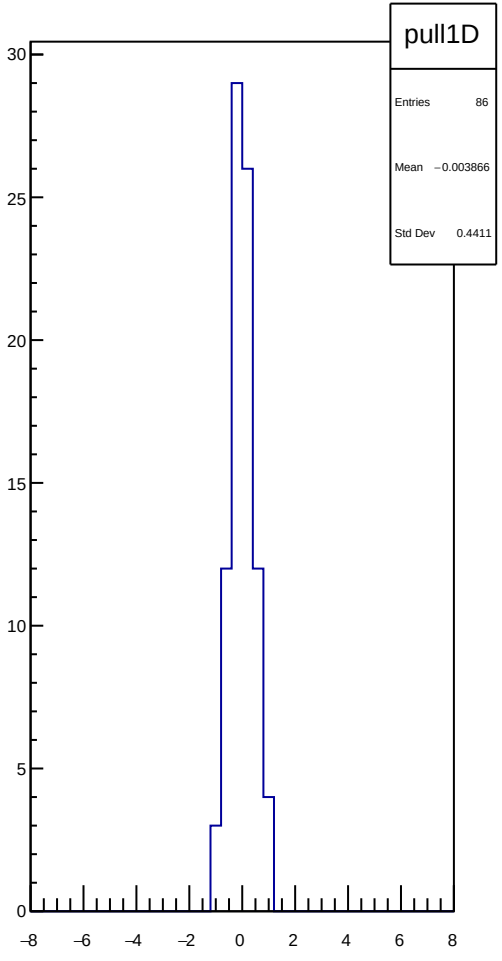

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1701 / 85
p0 151.4 ± 0.119
165
160
155
150
145
140

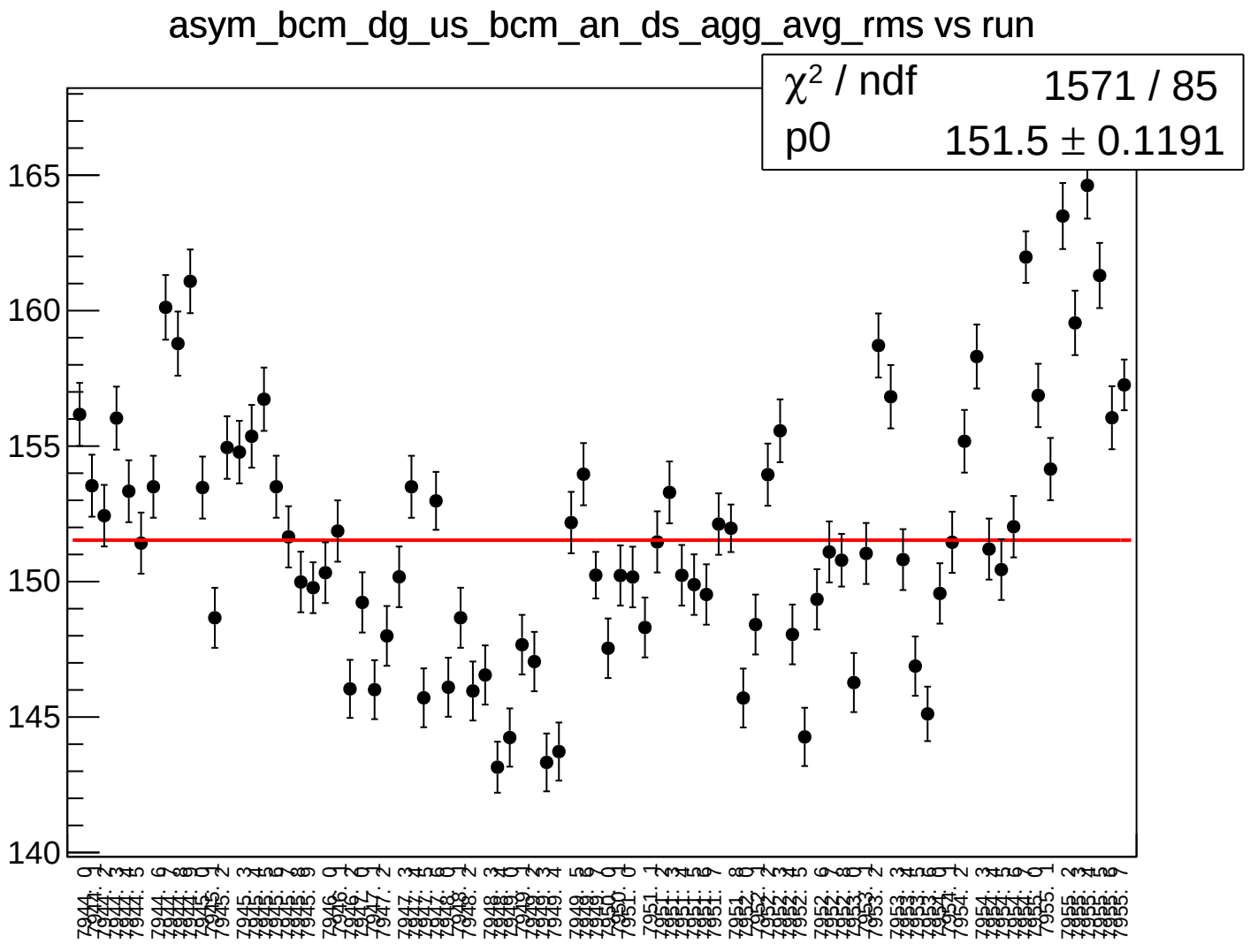

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 64.06 / 85
p0 −7.382 ± 12.28
pull
Entries 86
Mean 80.53
Std Dev 0

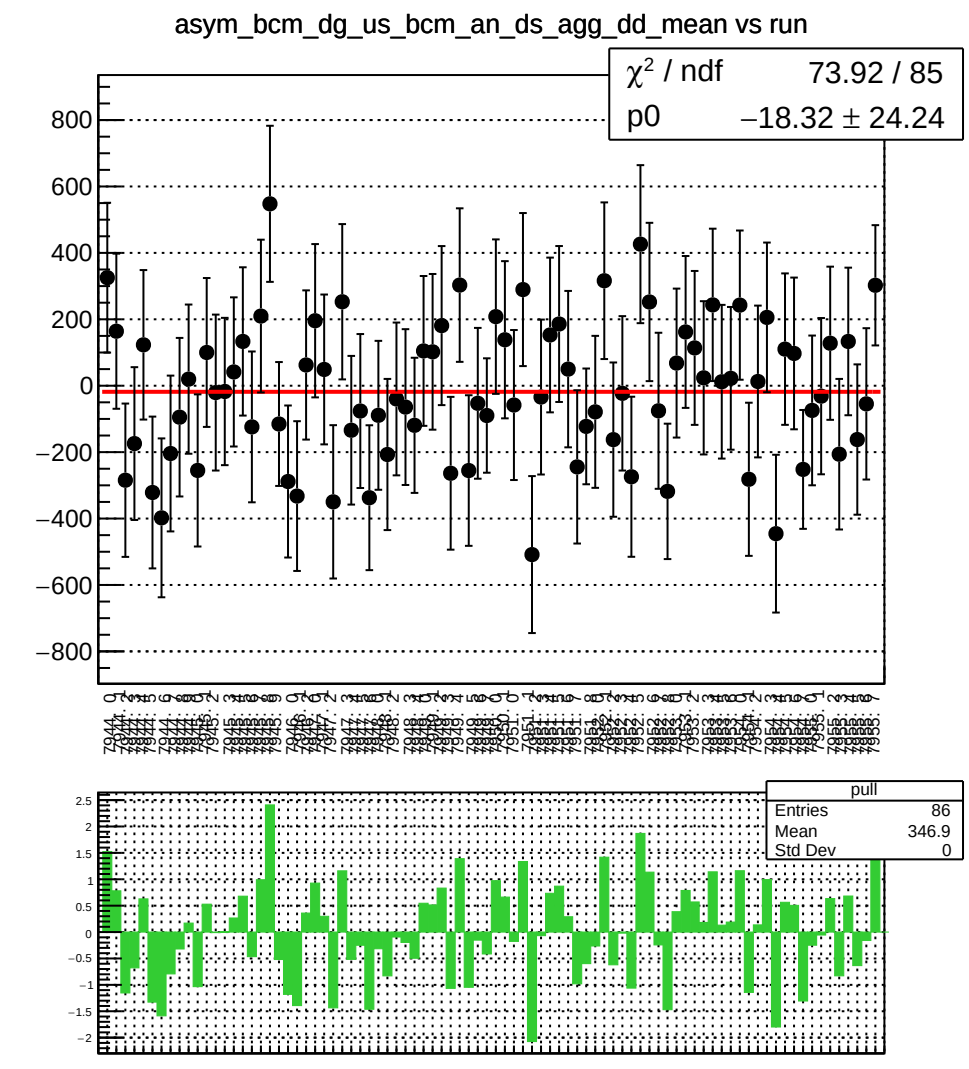

pull1D
Entries 86
Mean 0.03235
Std Dev 0.8625

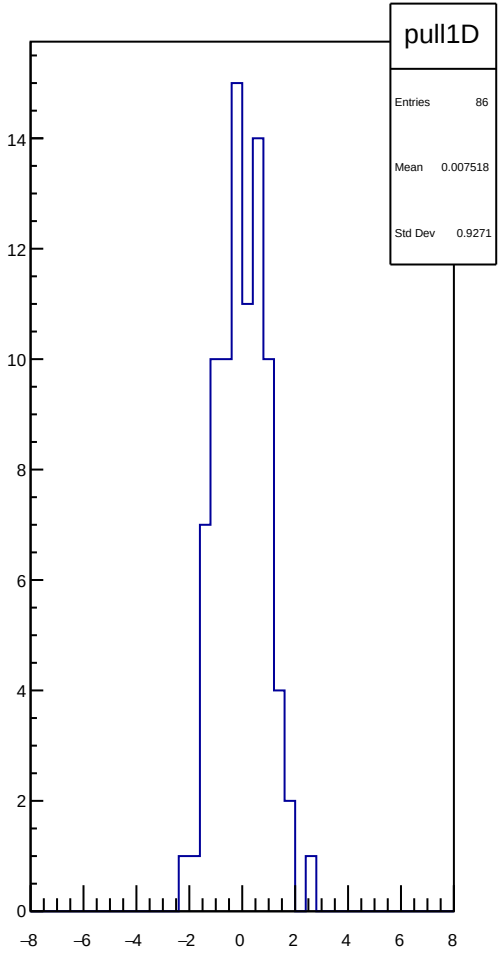

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.782e+04 / 85
p0 10.95 ± 0.008683
15
14
13
12
11
10
9

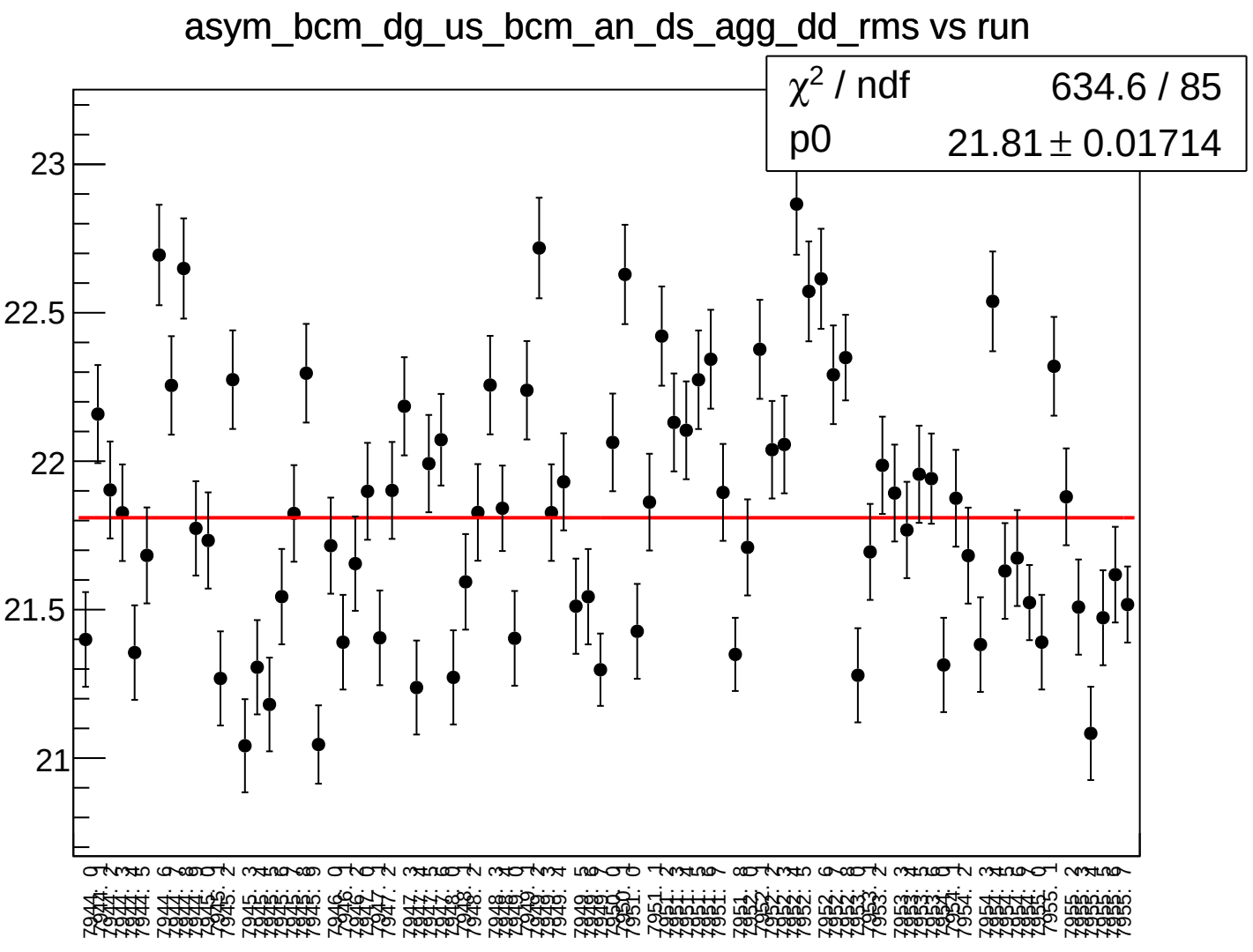

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.73 / 85
p0 −106 ± 168.5
pull
Entries 86
Mean 266.9
Std Dev 0

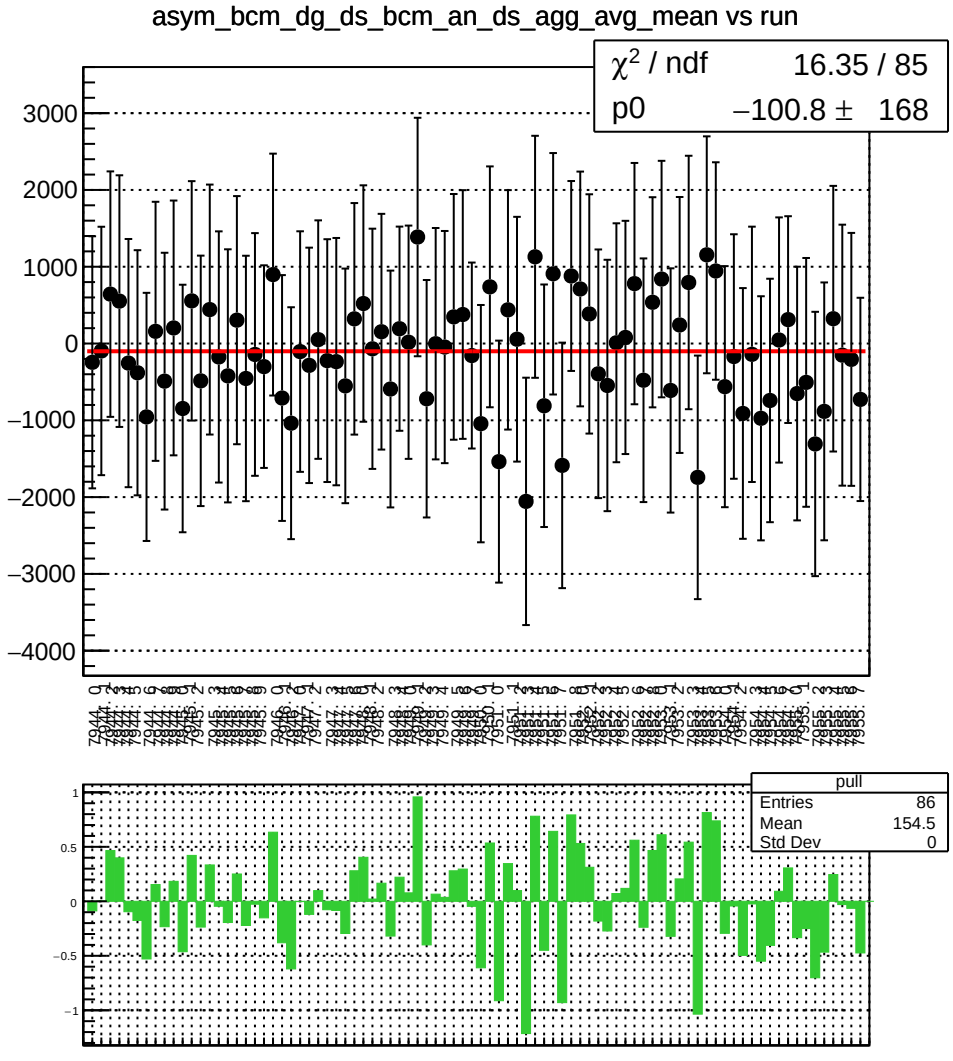

pull1D
Entries 86
Mean −0.003866
Std Dev 0.4411

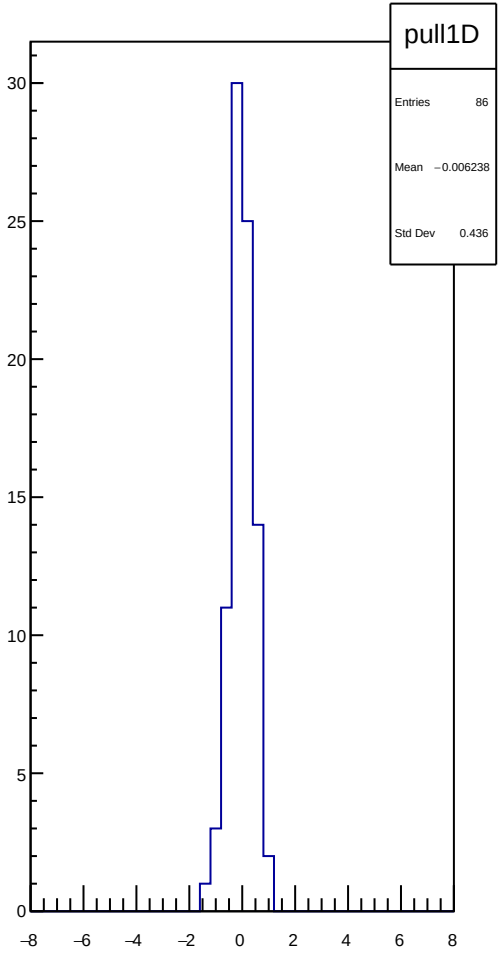

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1571 / 85
p0 151.5 ± 0.1191
165
160
155
150
145
140

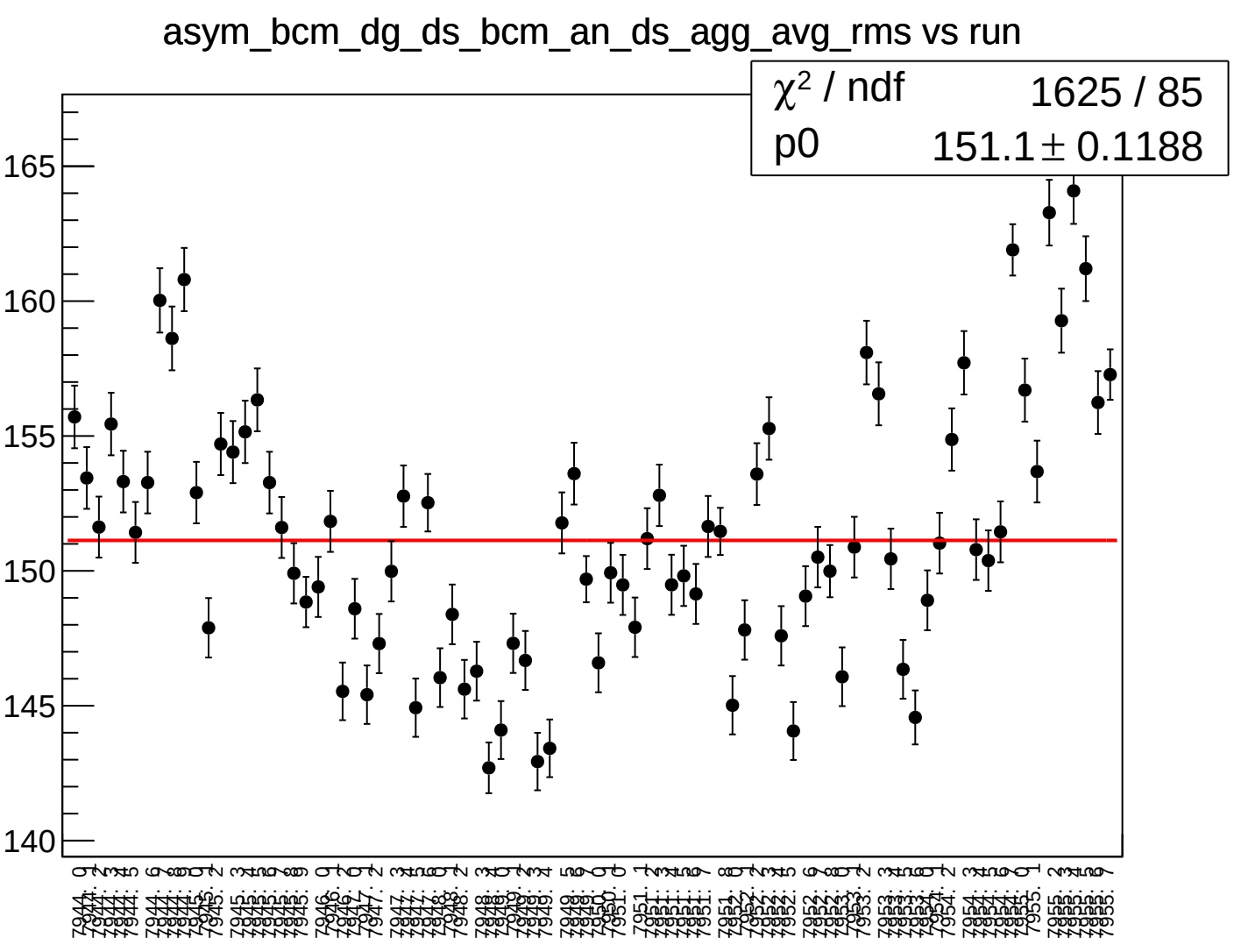

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 73.92 / 85
p0 −18.32 ± 24.24
pull
Entries 86
Mean 346.9
Std Dev 0

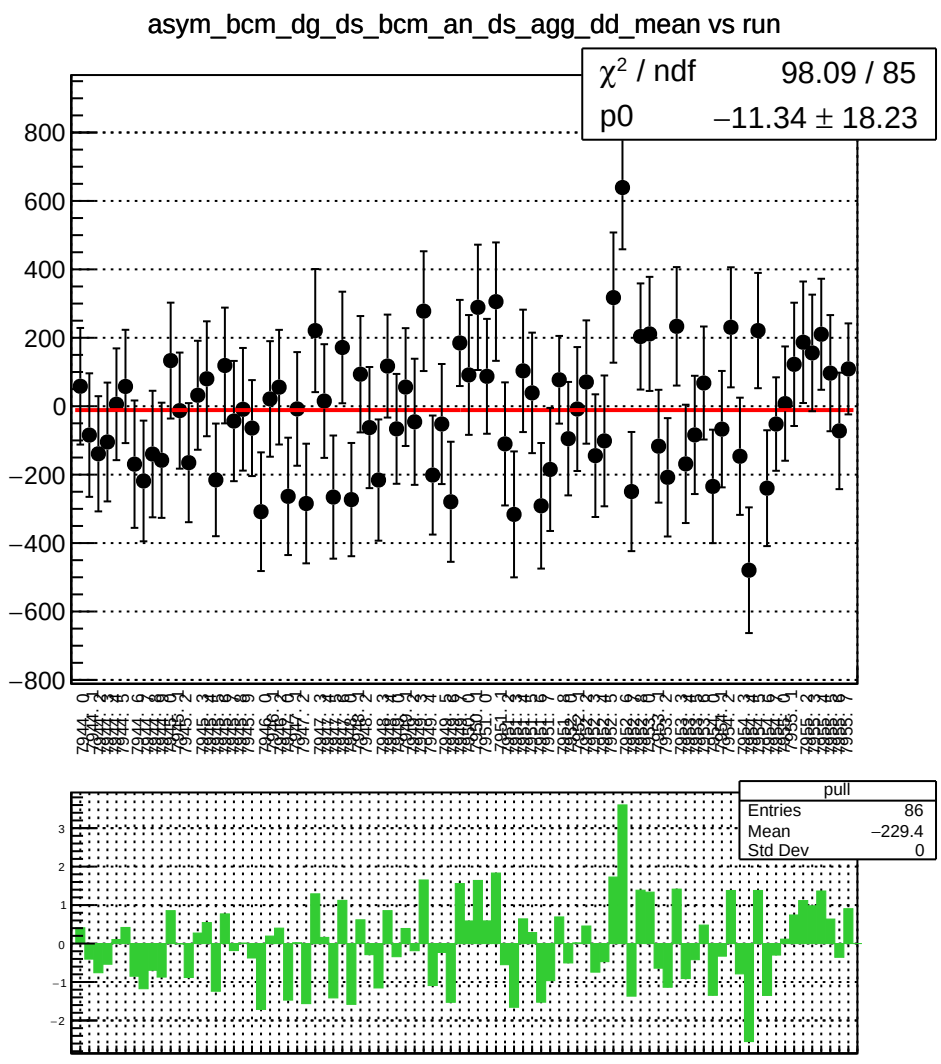

pull1D
Entries 86
Mean 0.007518
Std Dev 0.9271

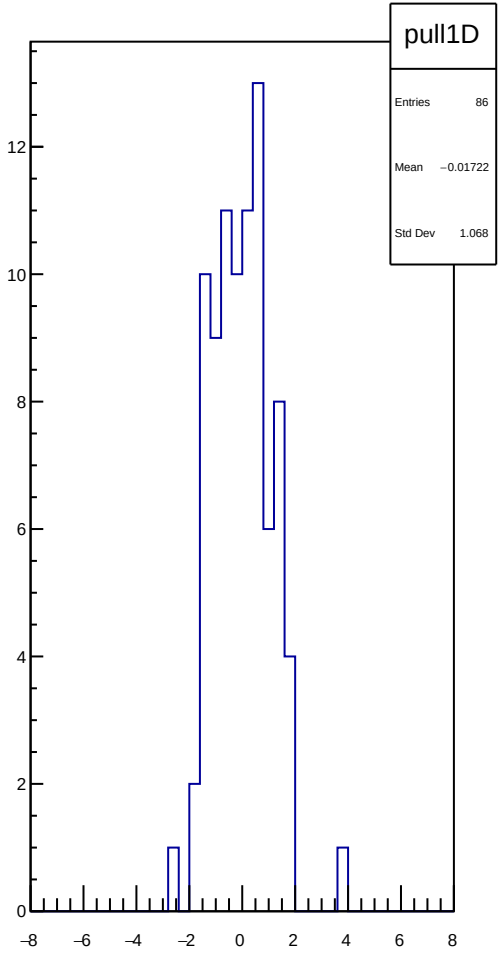

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 634.6 / 85
p0 21.81 ± 0.01714
23
22.5
22
21.5
21

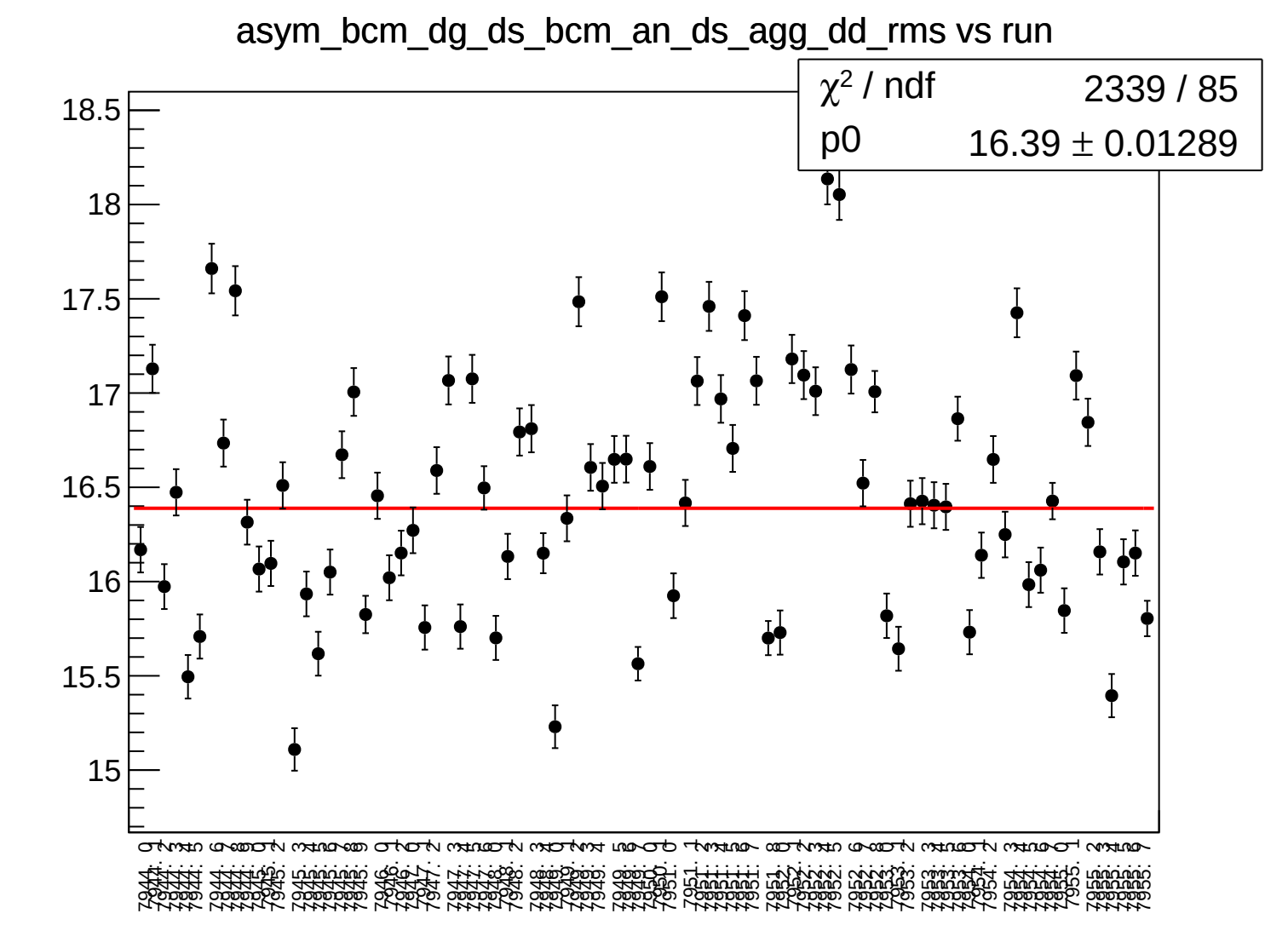

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.35 / 85
p0 −100.8 ± 168
pull
Entries 86
Mean 154.5
Std Dev 0

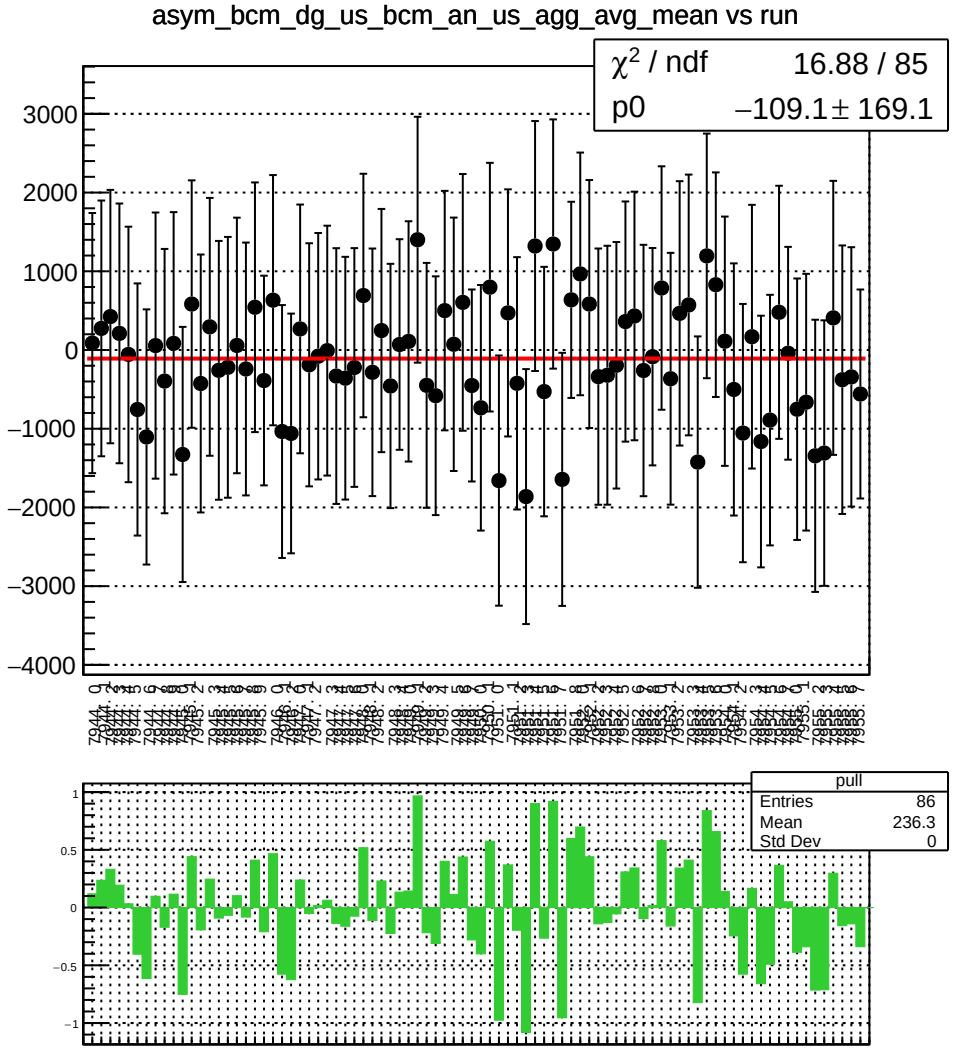

pull1D
Entries 86
Mean −0.006238
Std Dev 0.436

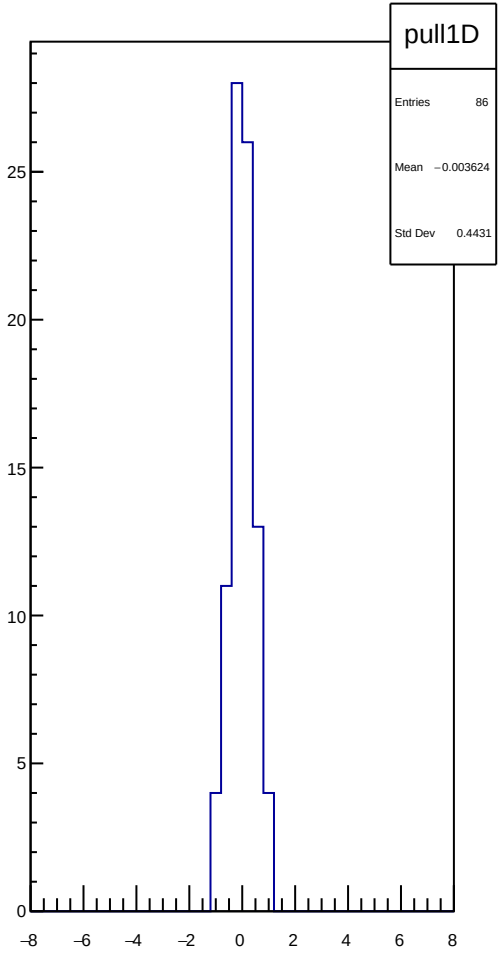

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1625 / 85
p0 151.1 ± 0.1188
165
160
155
150
145
140

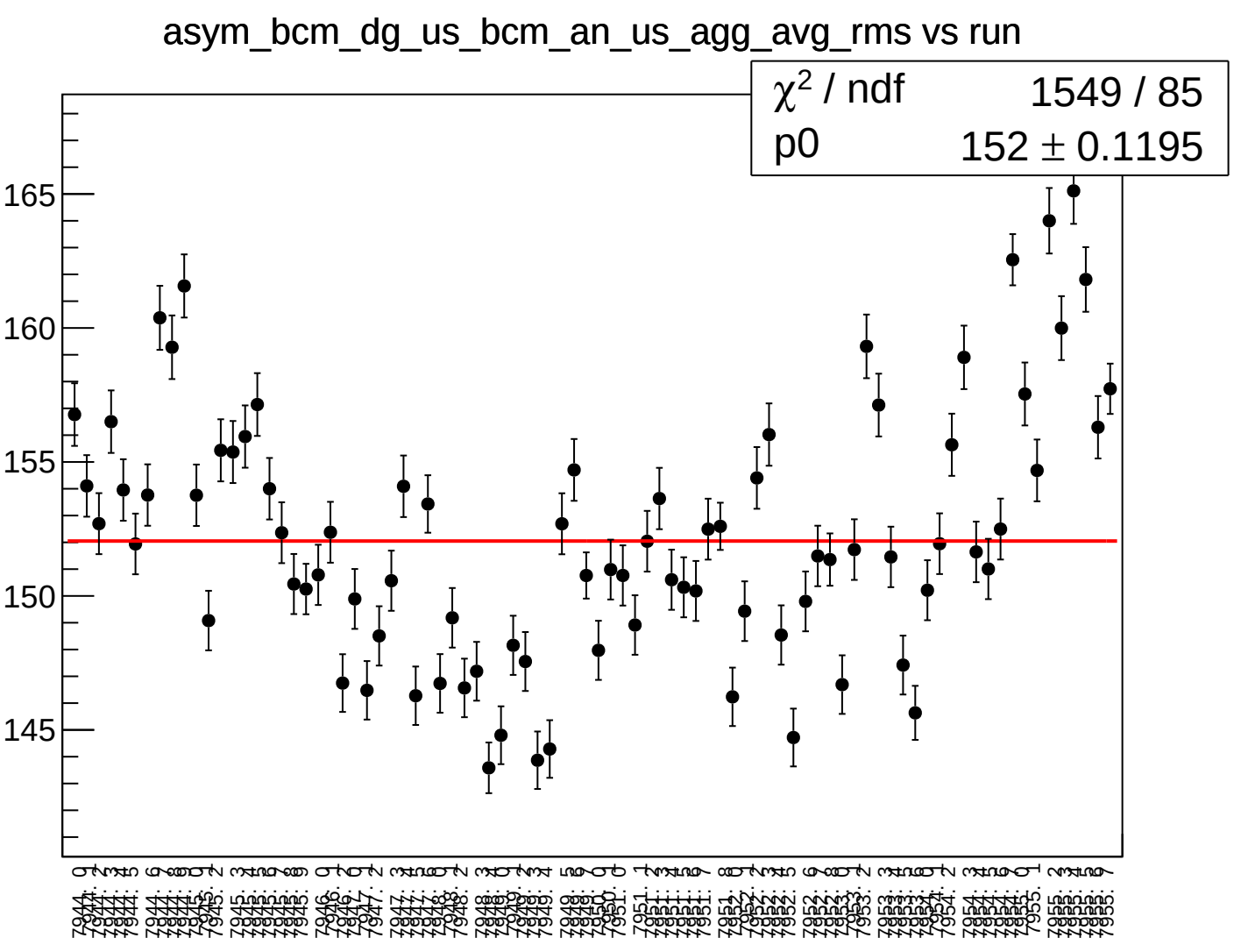

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 98.09 / 85
p0 −11.34 ± 18.23
pull
Entries 86
Mean −229.4
Std Dev 0

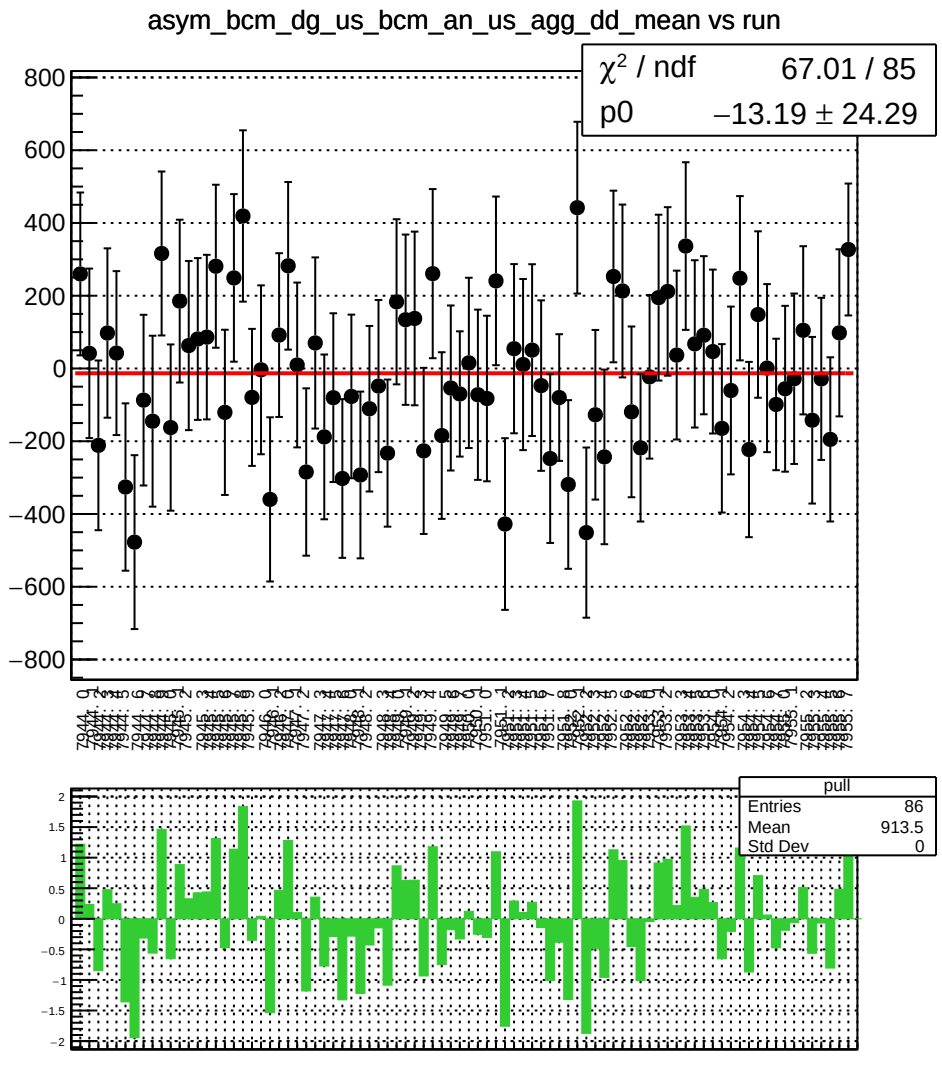

pull1D
Entries 86
Mean −0.01722
Std Dev 1.068

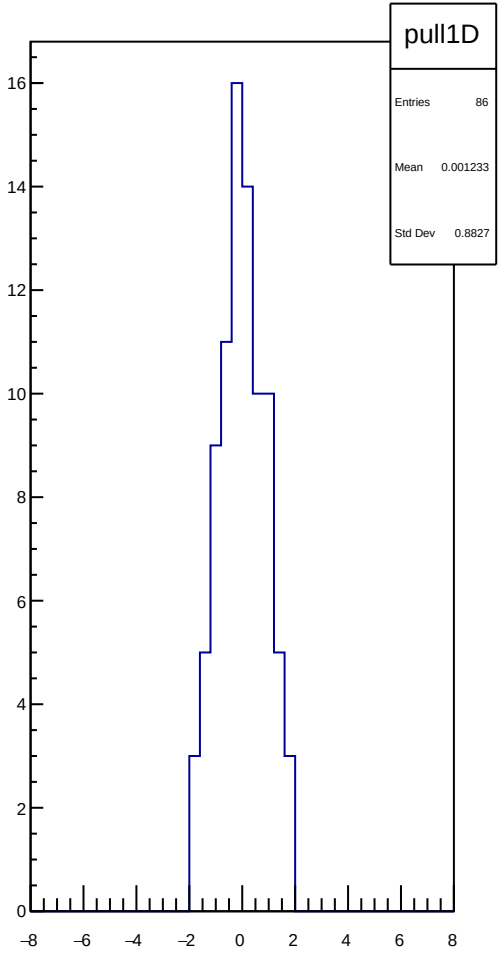

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2339 / 85
p0 16.39 ± 0.01289
18.5
18
17.5
17
16.5
16
15.5
15

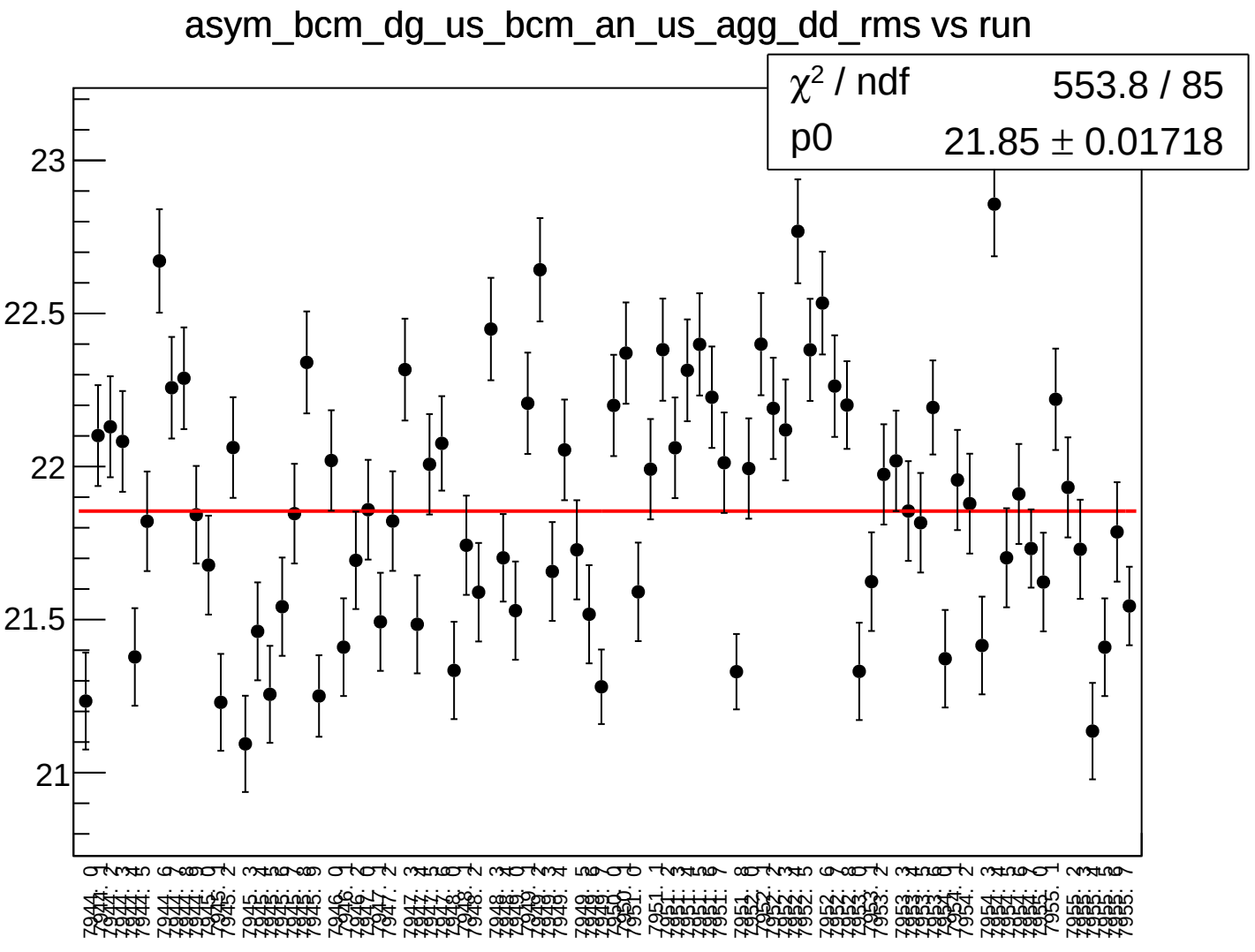

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.88 / 85
p0 −109.1 ± 169.1
pull
Entries 86
Mean 236.3
Std Dev 0

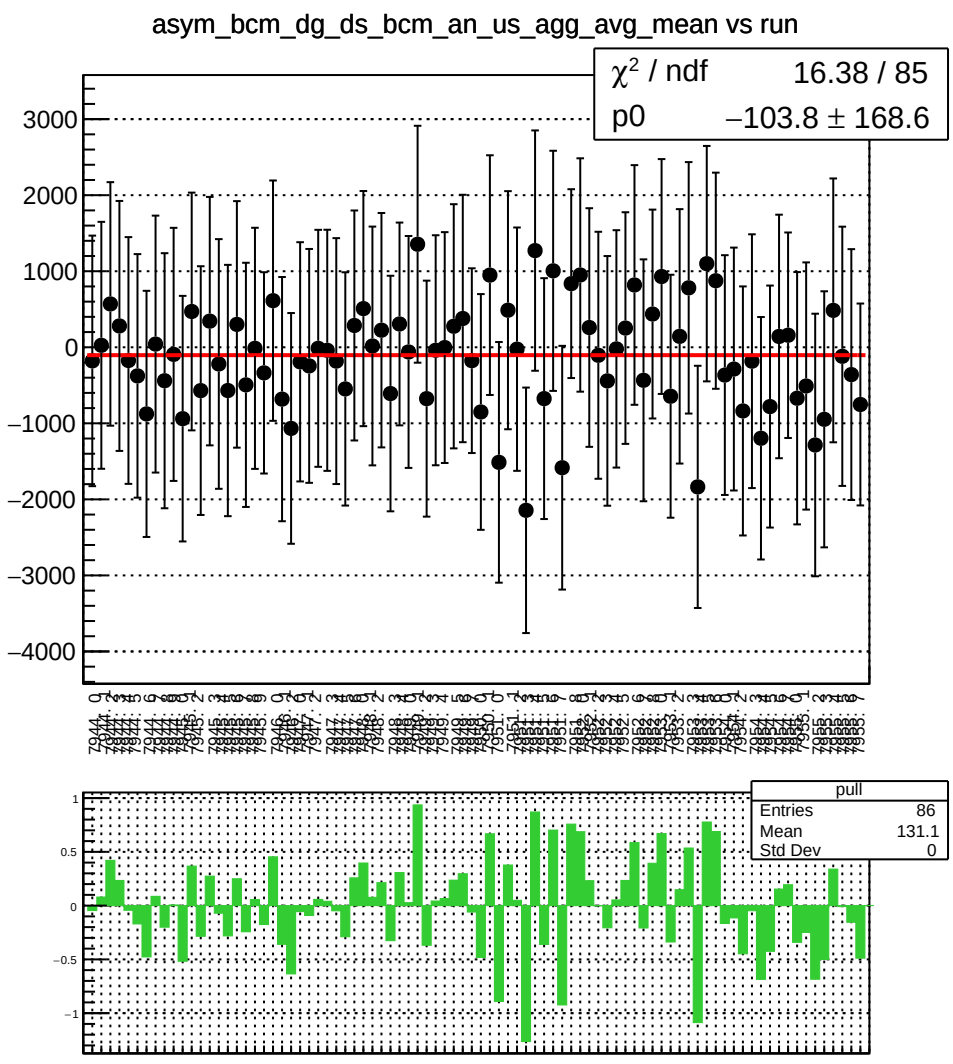

pull1D
Entries 86
Mean −0.003624
Std Dev 0.4431

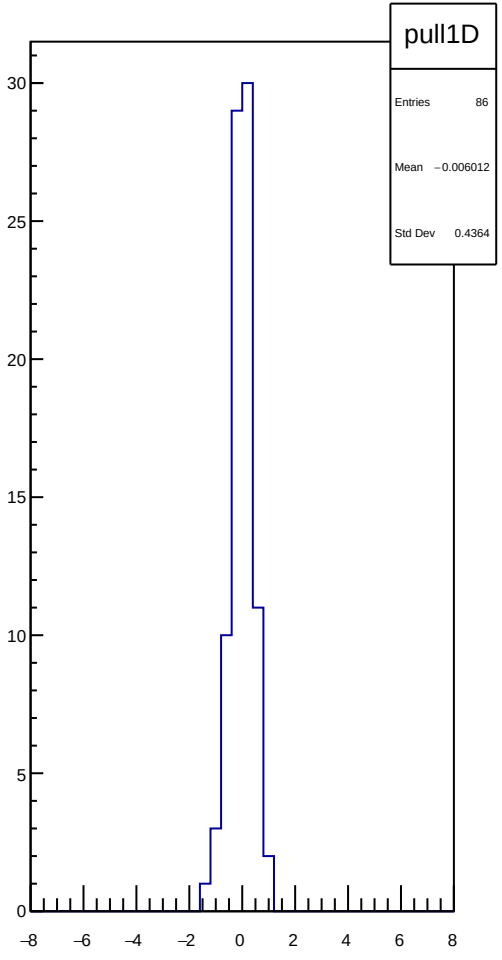

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1549 / 85
p0 152 ± 0.1195
165
160
155
150
145

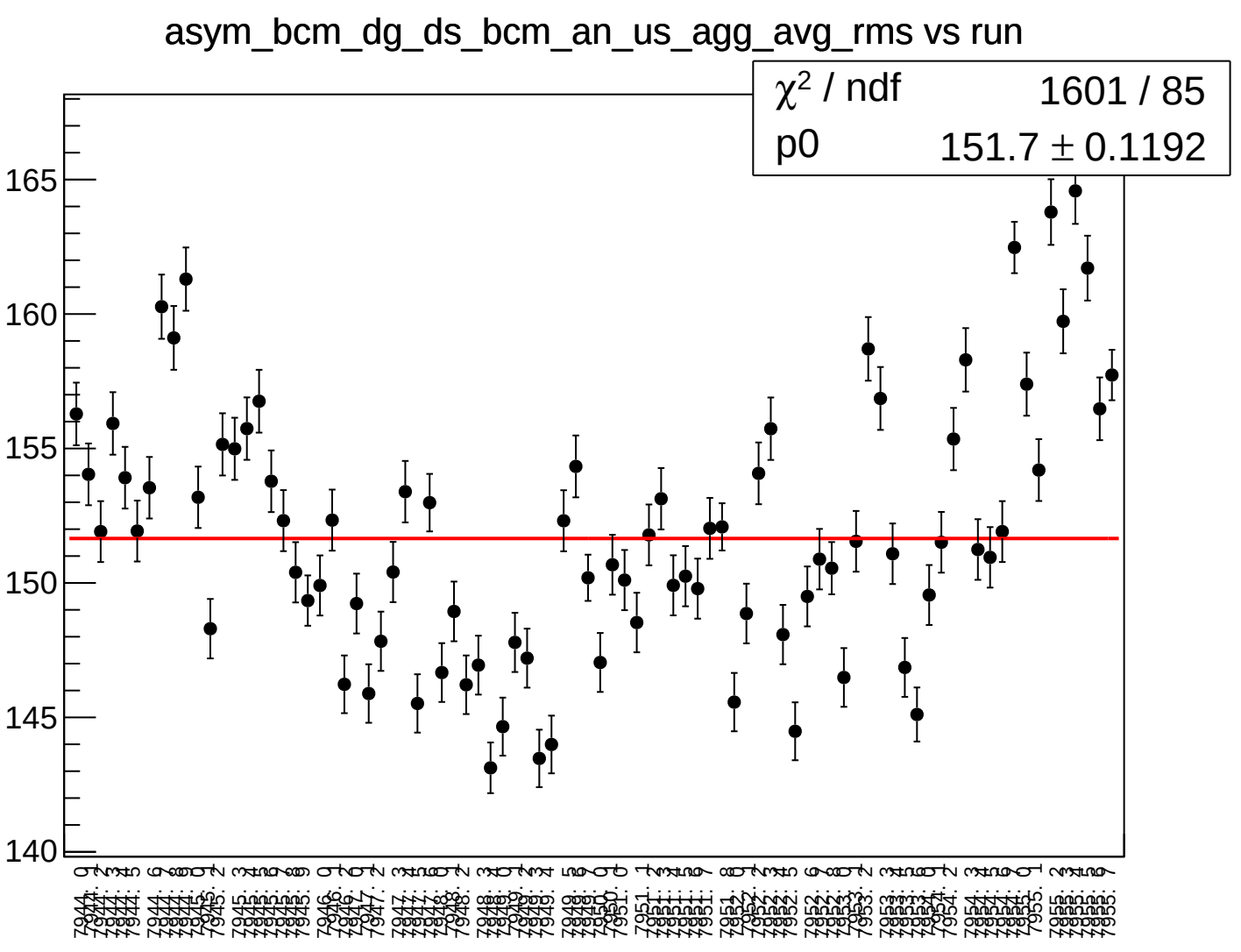

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 67.01 / 85
p0 −13.19 ± 24.29
pull
Entries 86
Mean 913.5
Std Dev 0

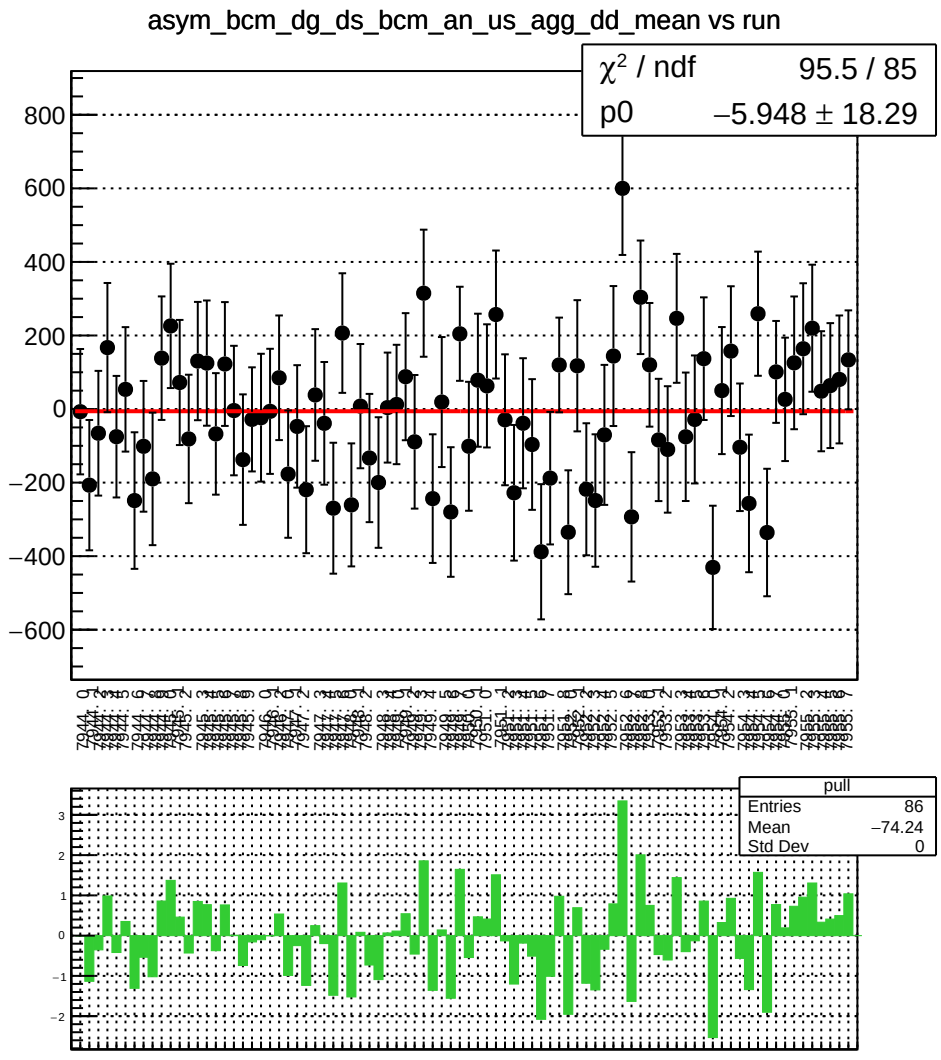

pull1D
Entries 86
Mean 0.001233
Std Dev 0.8827

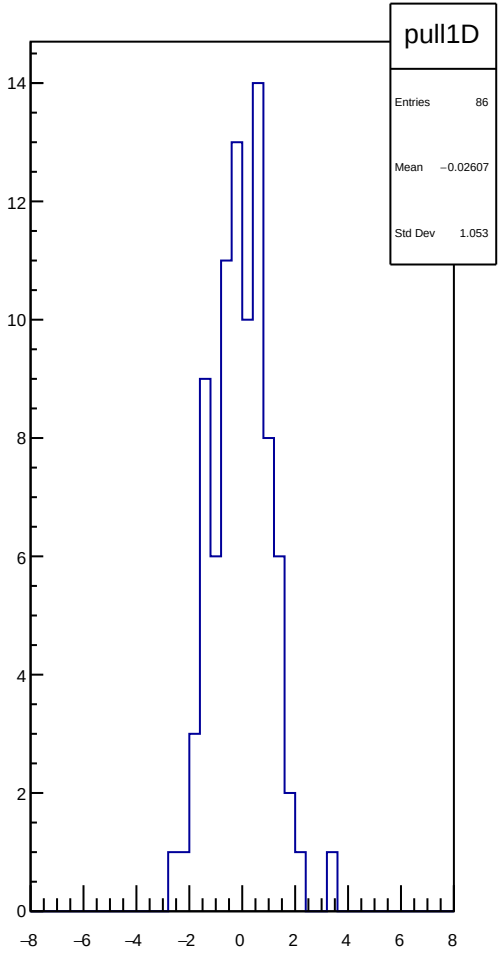

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 553.8 / 85
p0 21.85 ± 0.01718
23
22.5
22
21.5
21

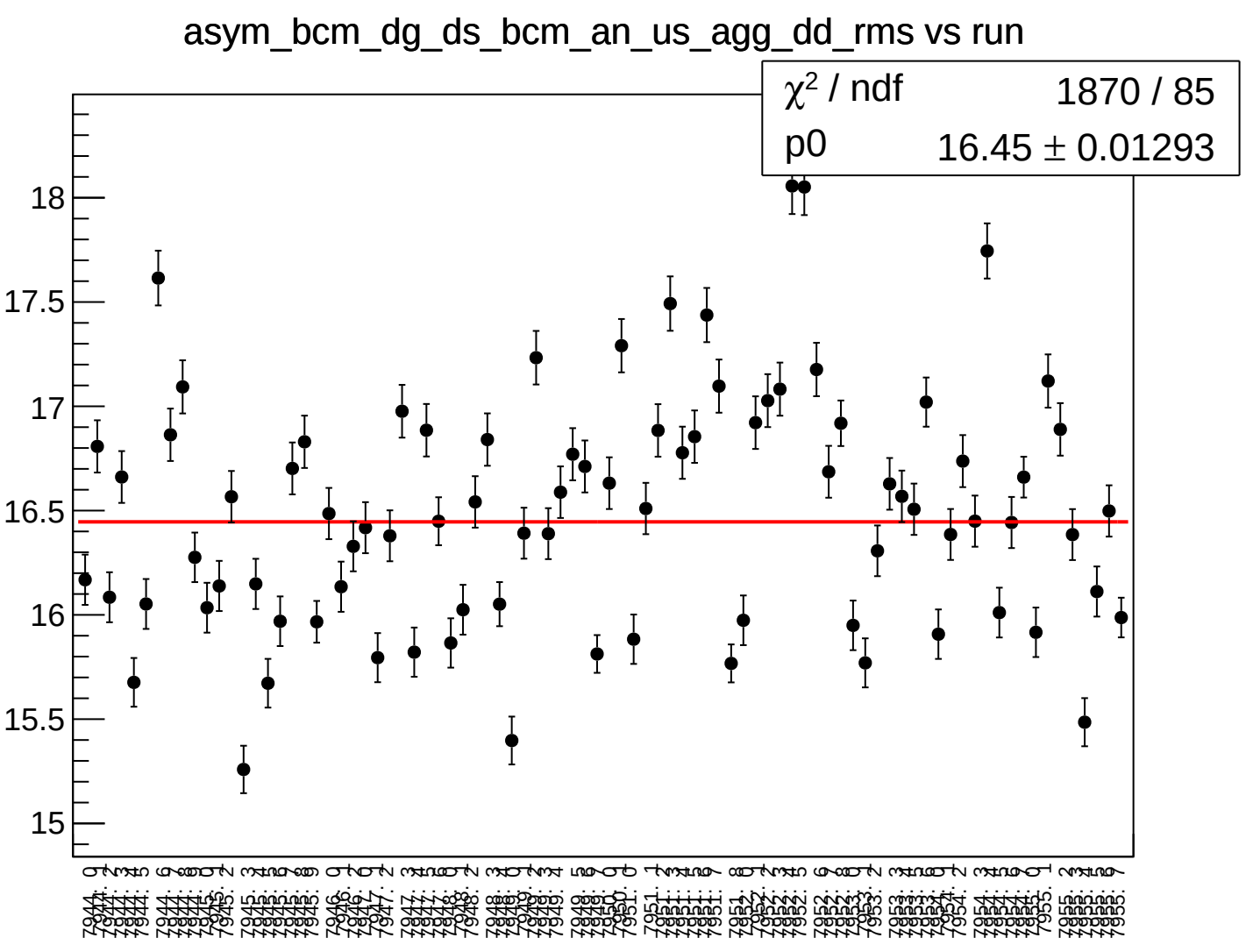

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.38 / 85
p0 −103.8 ± 168.6
pull
Entries 86
Mean 131.1
Std Dev 0

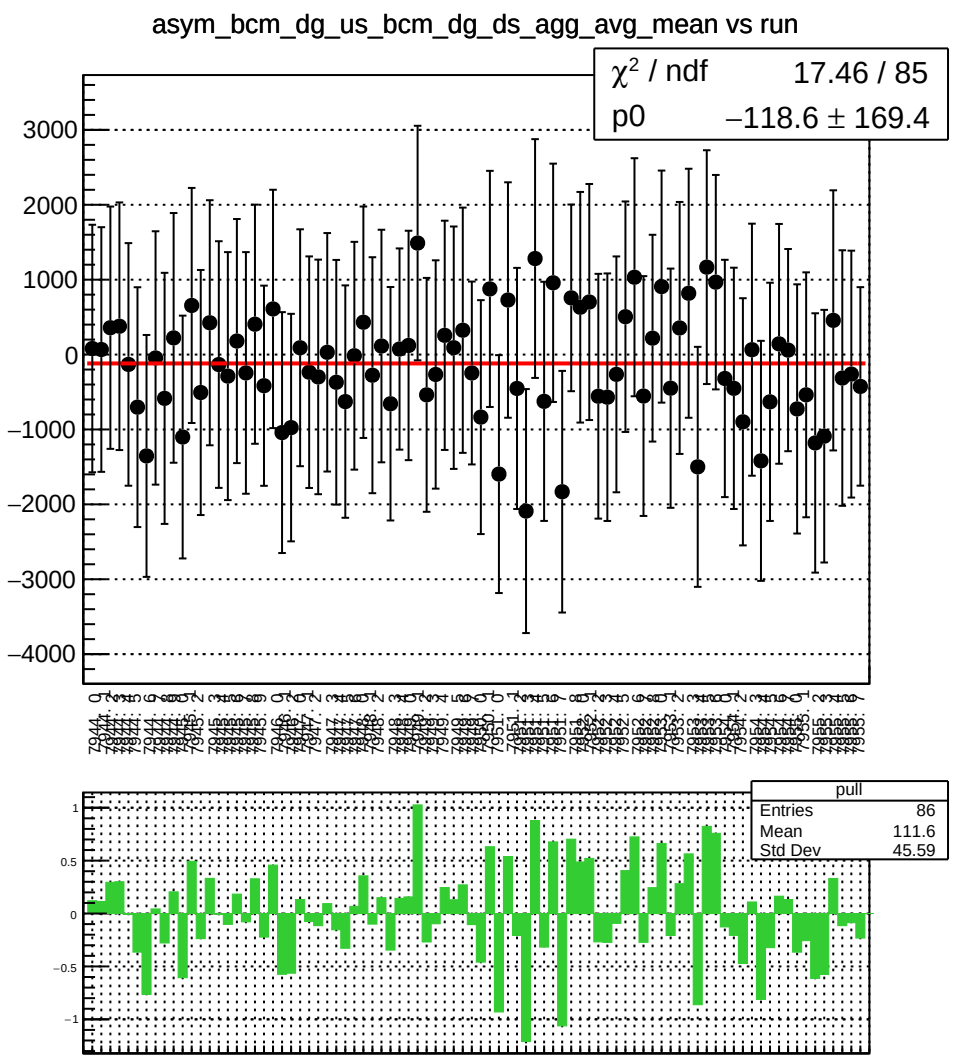

pull1D
Entries 86
Mean −0.006012
Std Dev 0.4364

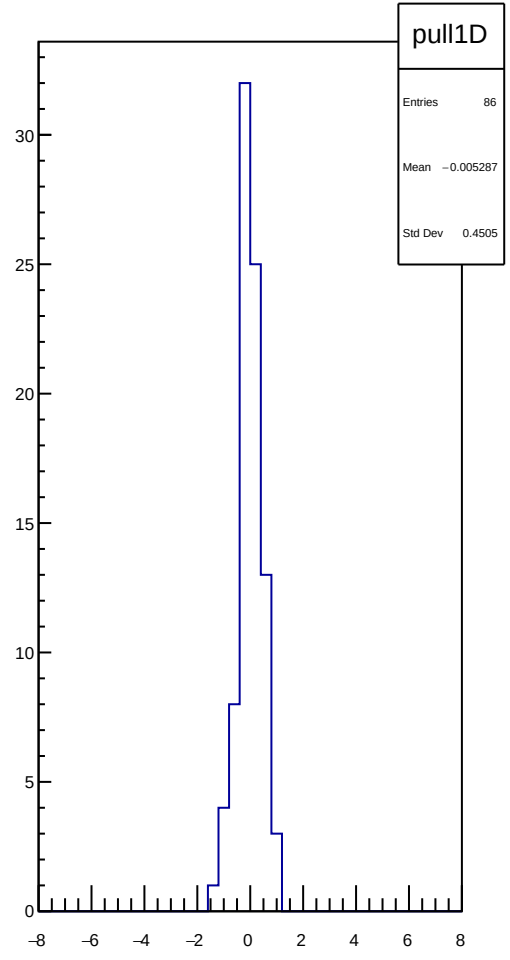

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1601 / 85
p0 151.7 ± 0.1192
165
160
155
150
145
140

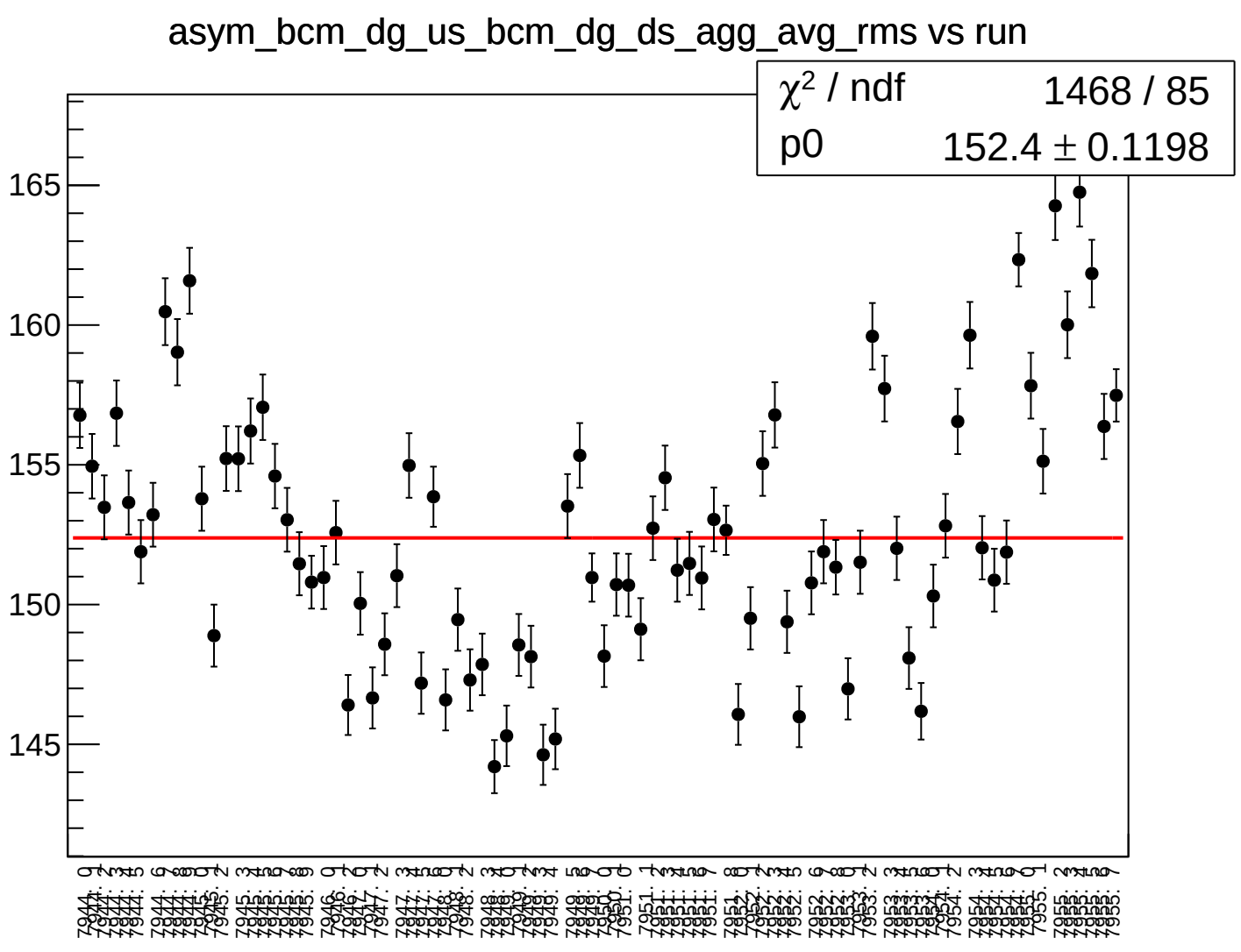

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 95.5 / 85
p0 −5.948 ± 18.29
pull
Entries 86
Mean −74.24
Std Dev 0

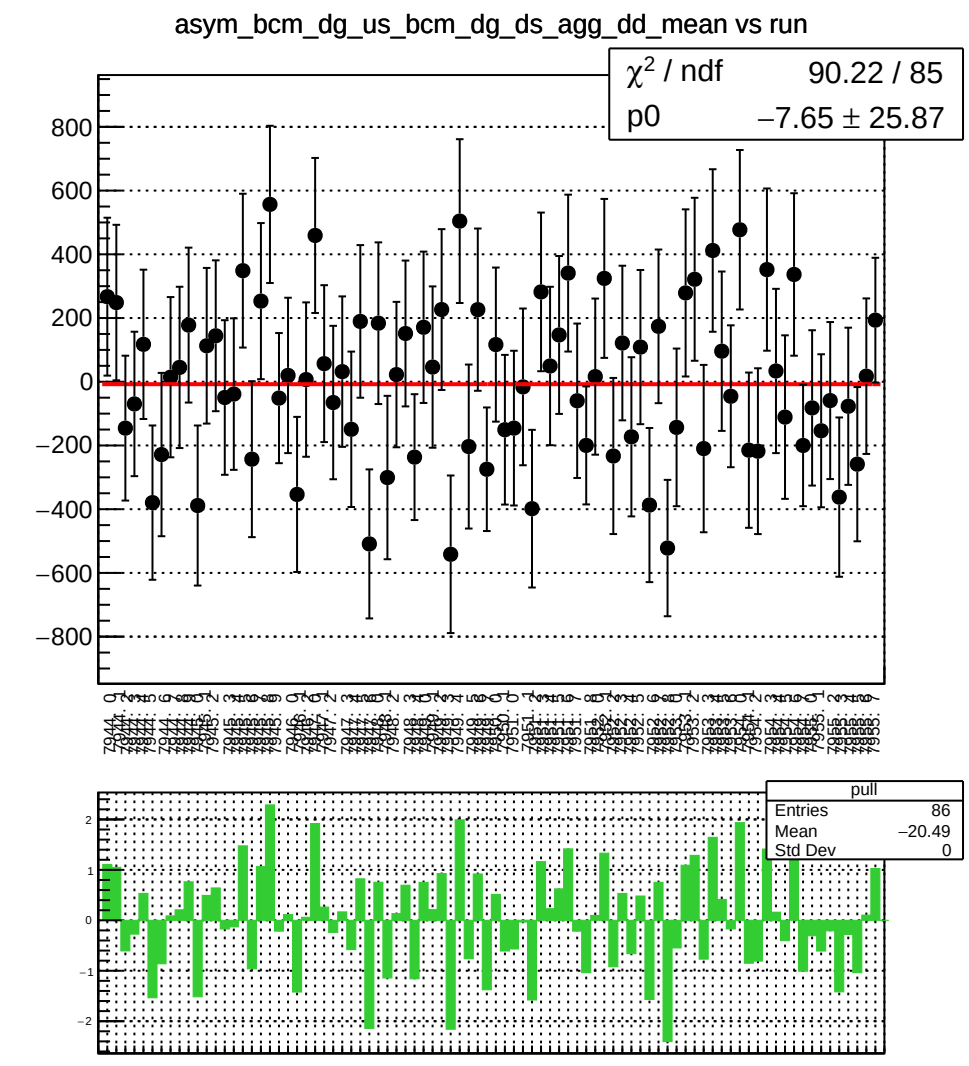

pull1D
Entries 86
Mean −0.02607
Std Dev 1.053

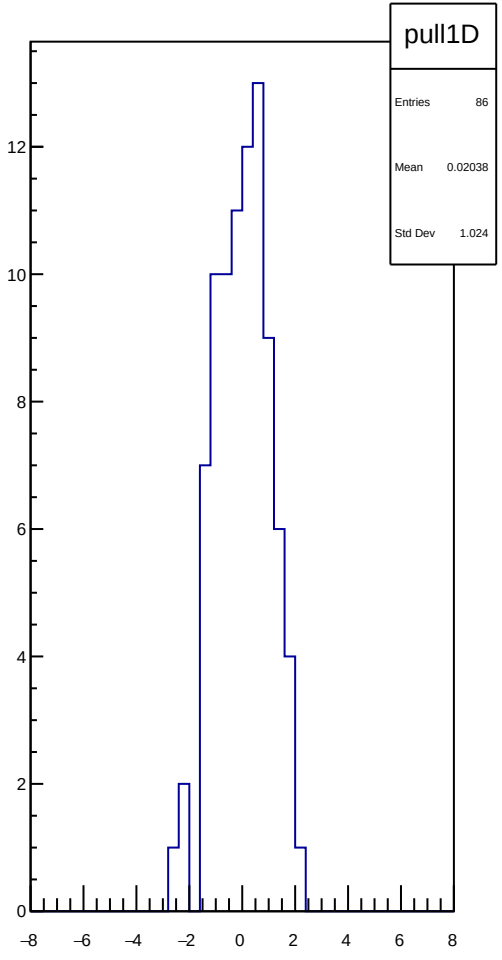

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1870 / 85
p0 16.45 ± 0.01293
18
17.5
17
16.5
16
15.5
15

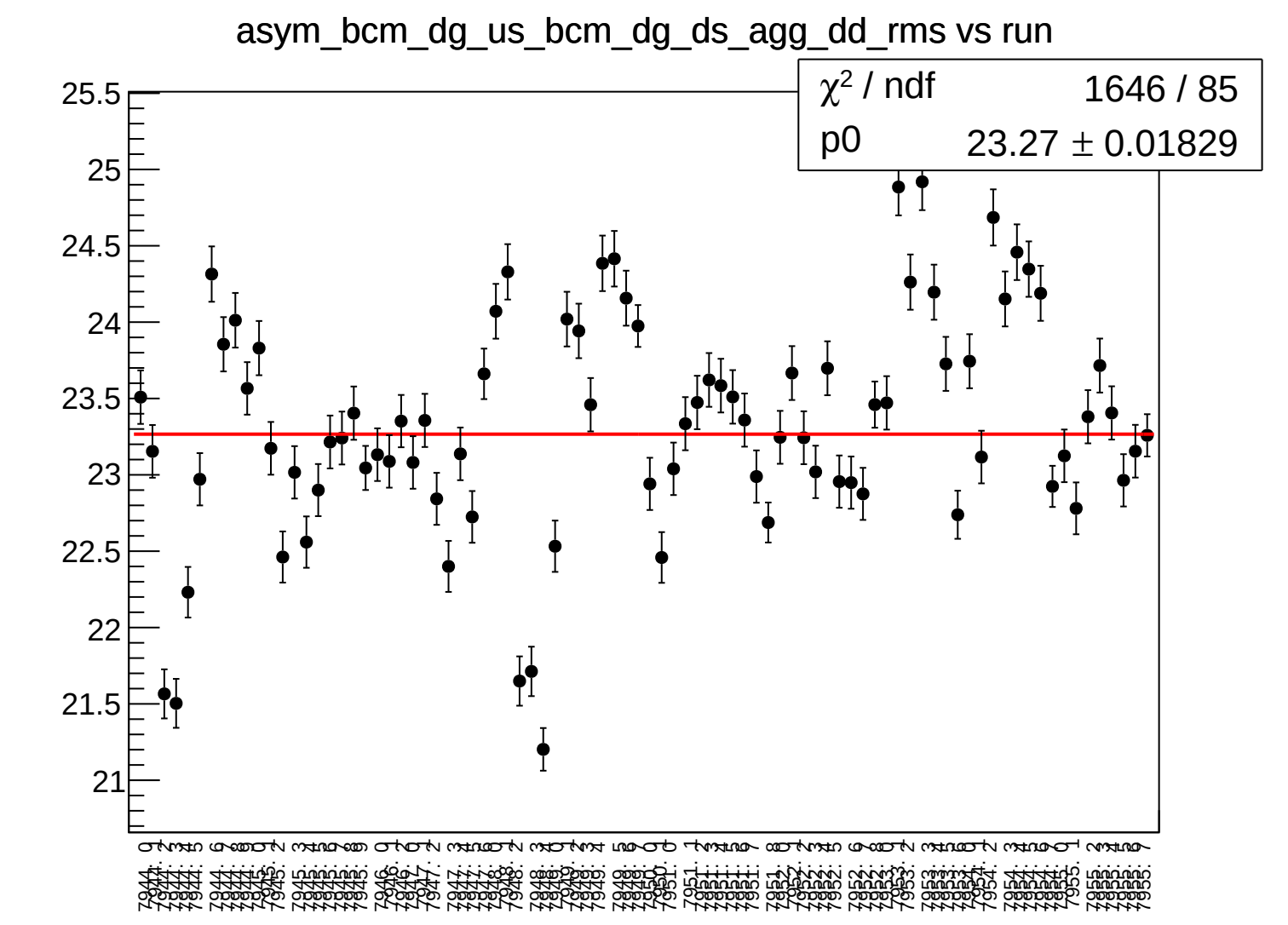

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 17.46 / 85
p0 −118.6 ± 169.4
pull
Entries 86
Mean 111.6
Std Dev 45.59

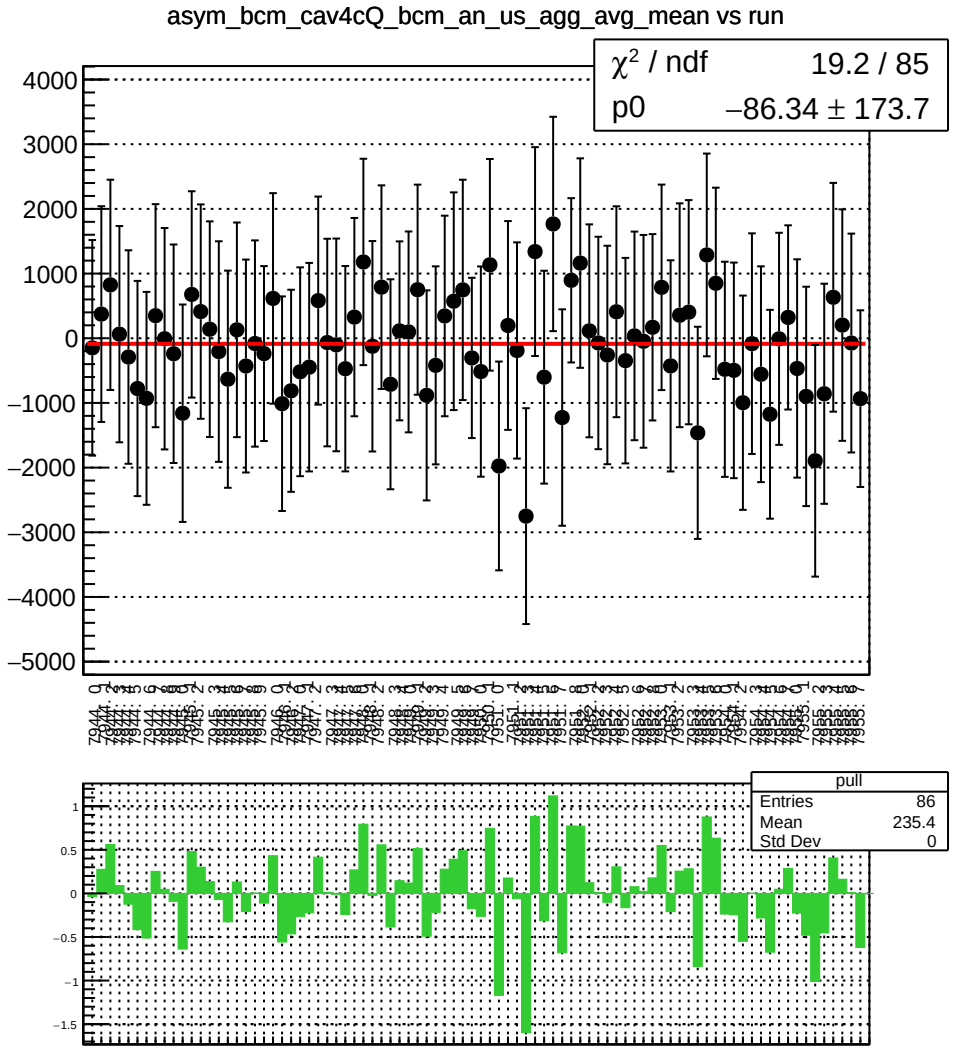

pull1D
Entries 86
Mean −0.005287
Std Dev 0.4505

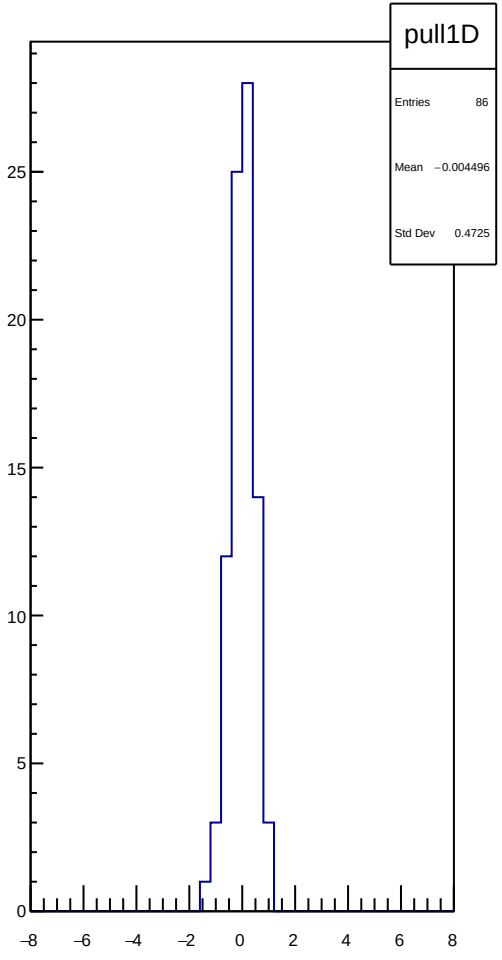

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1468 / 85
p0 152.4 ± 0.1198
165
160
155
150
145

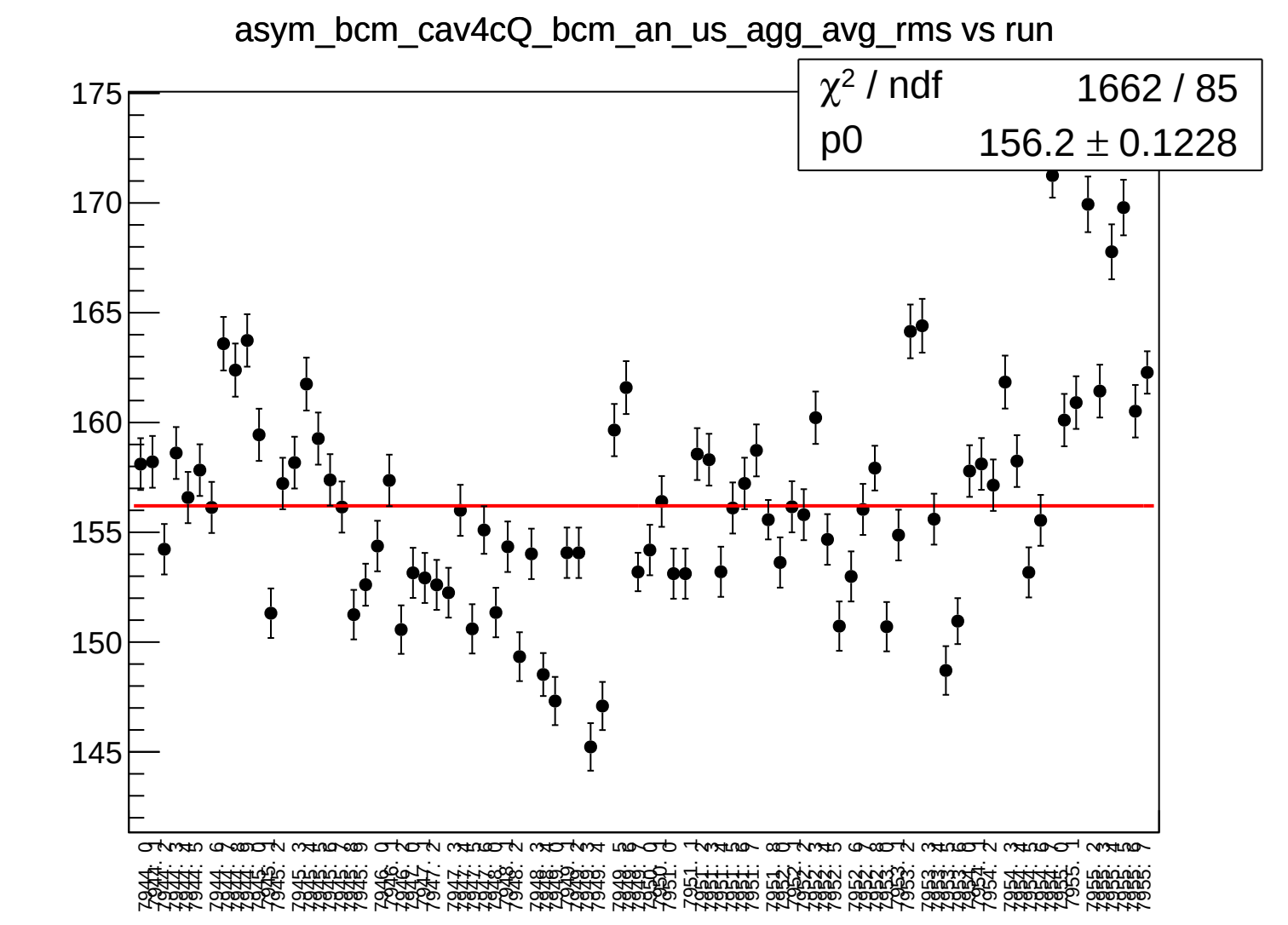

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 90.22 / 85
p0 −7.65 ± 25.87
pull
Entries 86
Mean −20.49
Std Dev 0

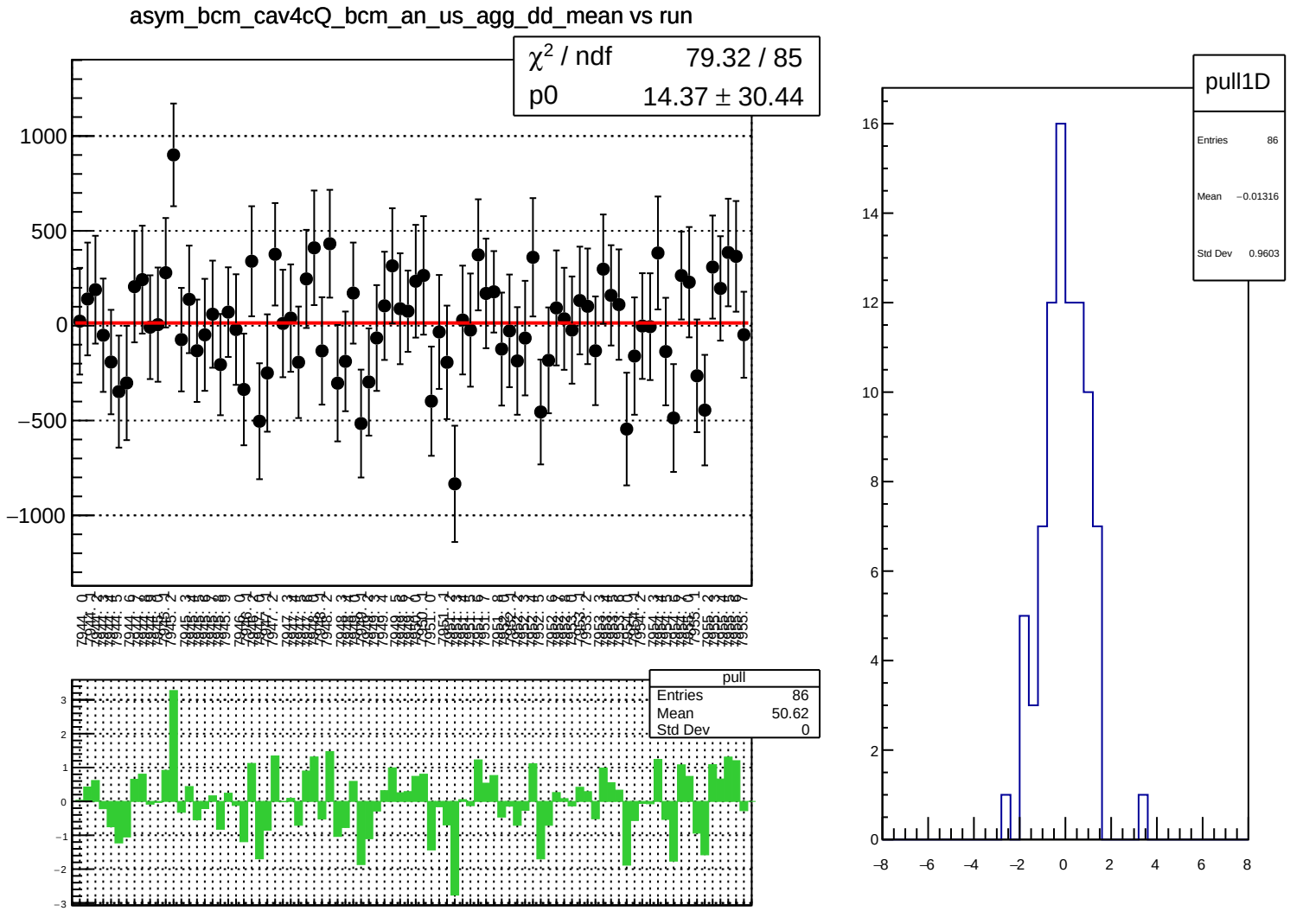

pull1D
Entries 86
Mean 0.02038
Std Dev 1.024

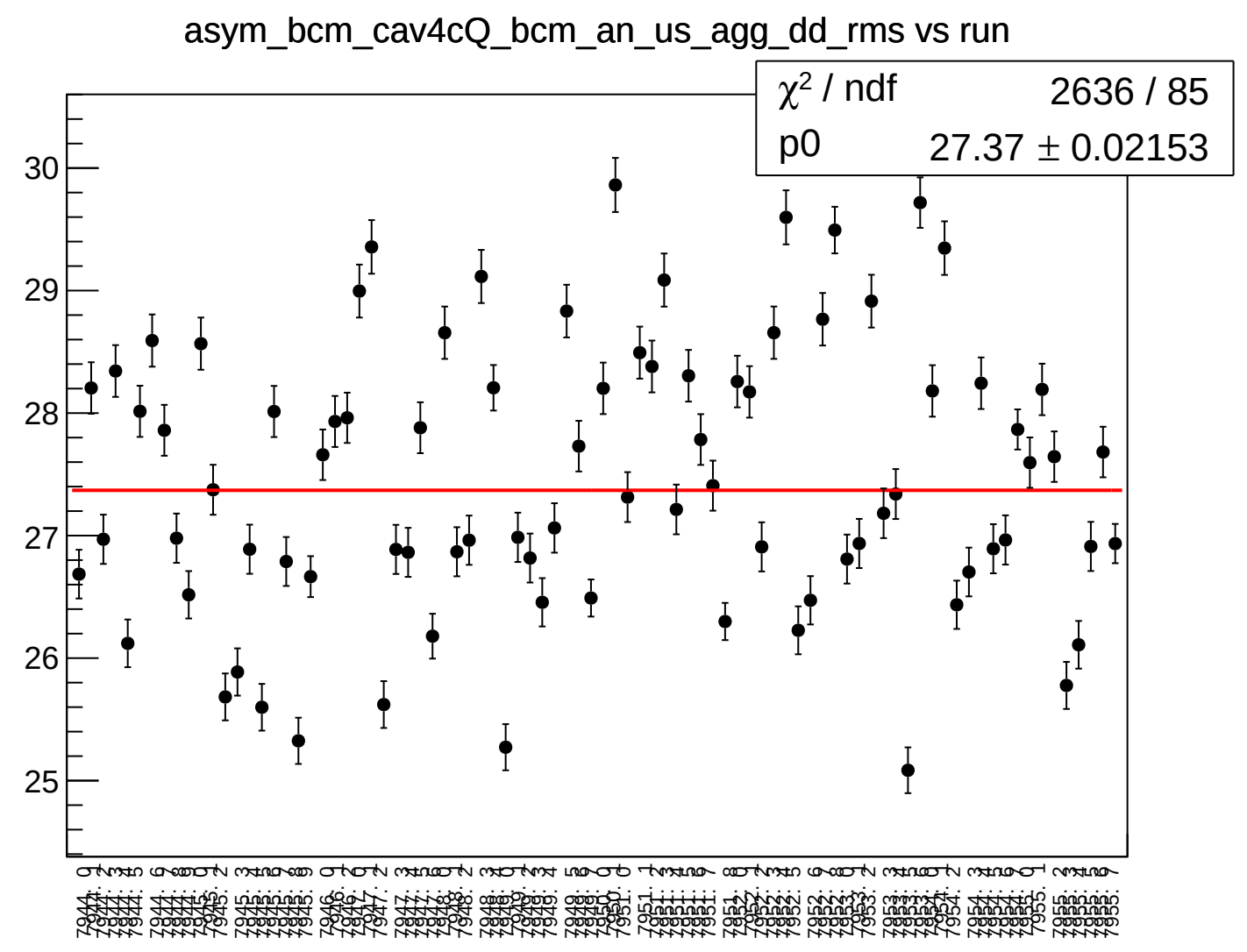

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1646 / 85
p0 23.27 ± 0.01829
25.5
25
24.5
24
23.5
23
22.5
22
21.5
21

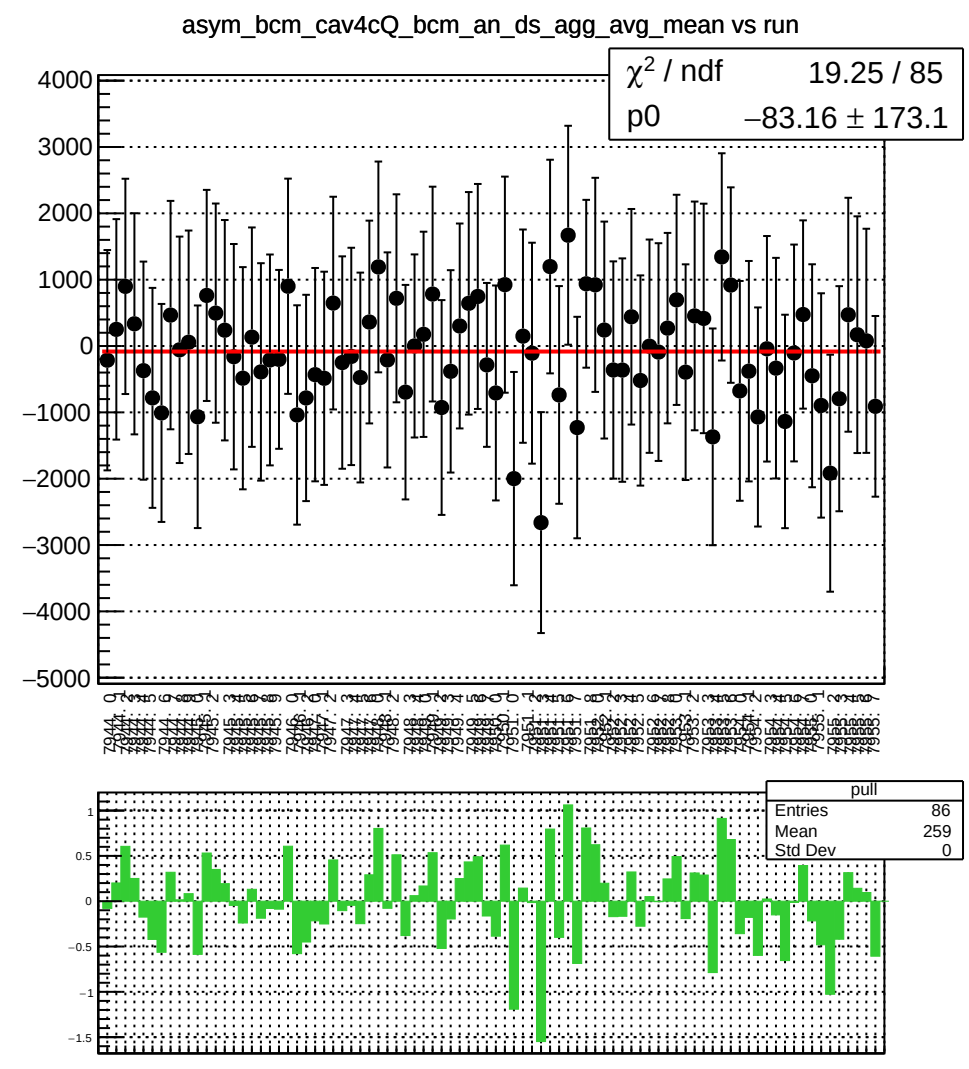

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.2 / 85
p0 −86.34 ± 173.7
pull
Entries 86
Mean 235.4
Std Dev 0

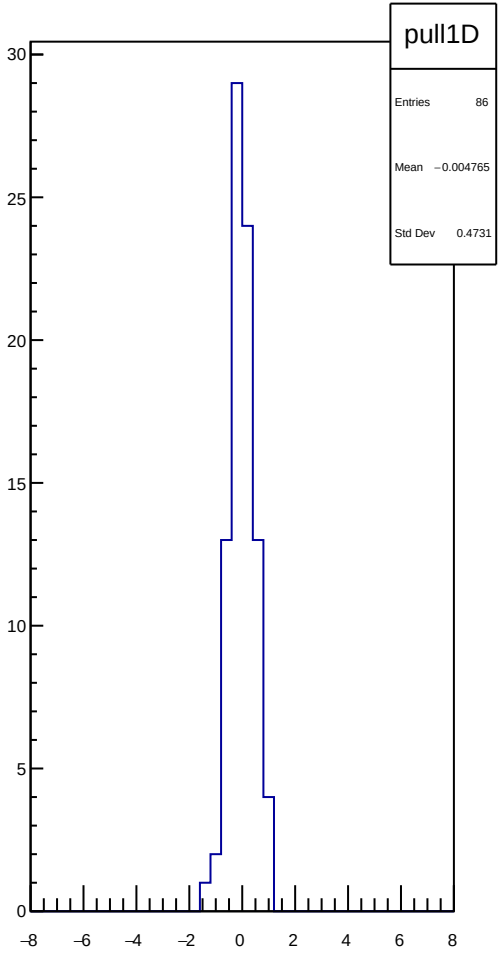

pull1D
Entries 86
Mean −0.004496
Std Dev 0.4725

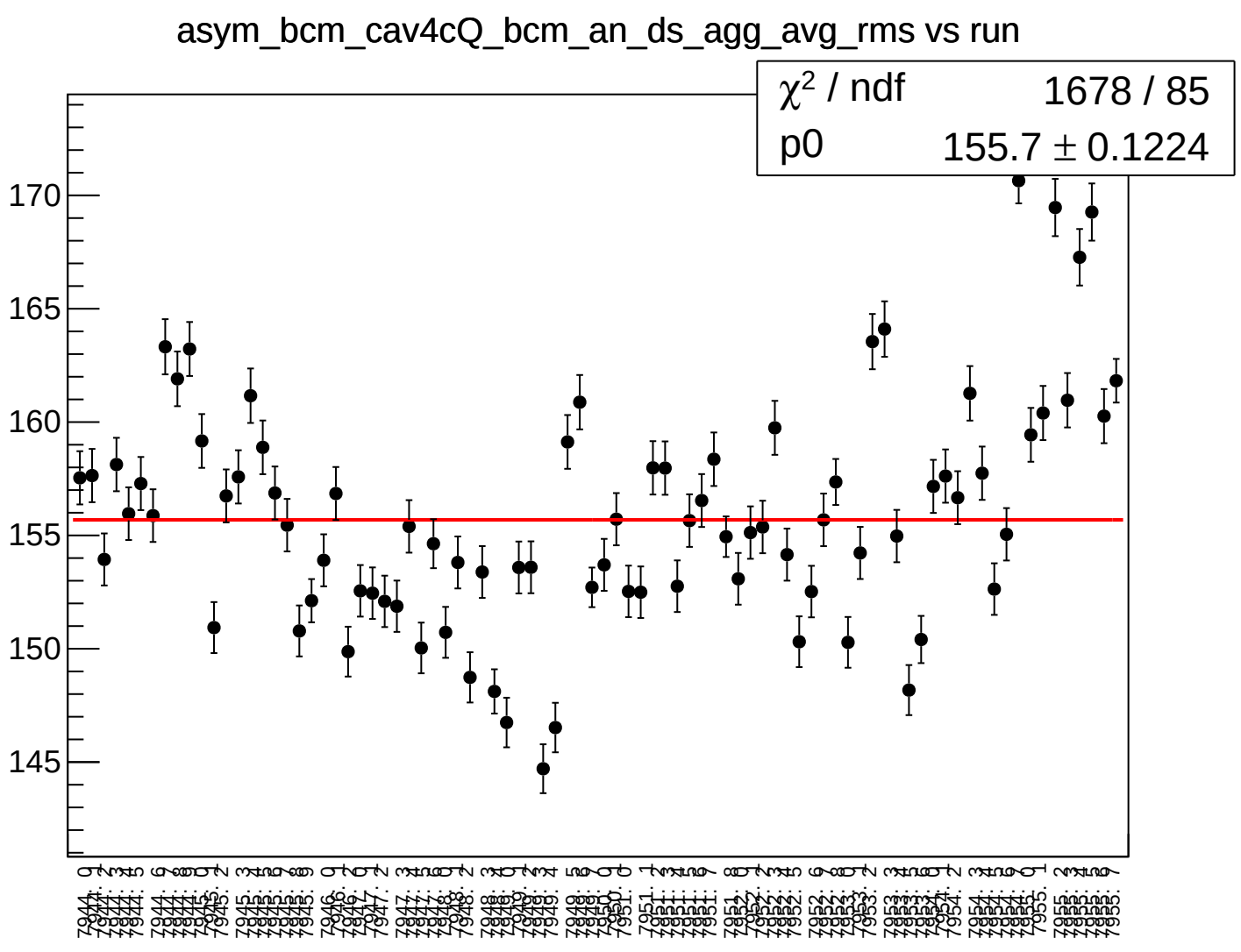

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1662 / 85
p0 156.2 ± 0.1228
175
170
165
160
155
150
145

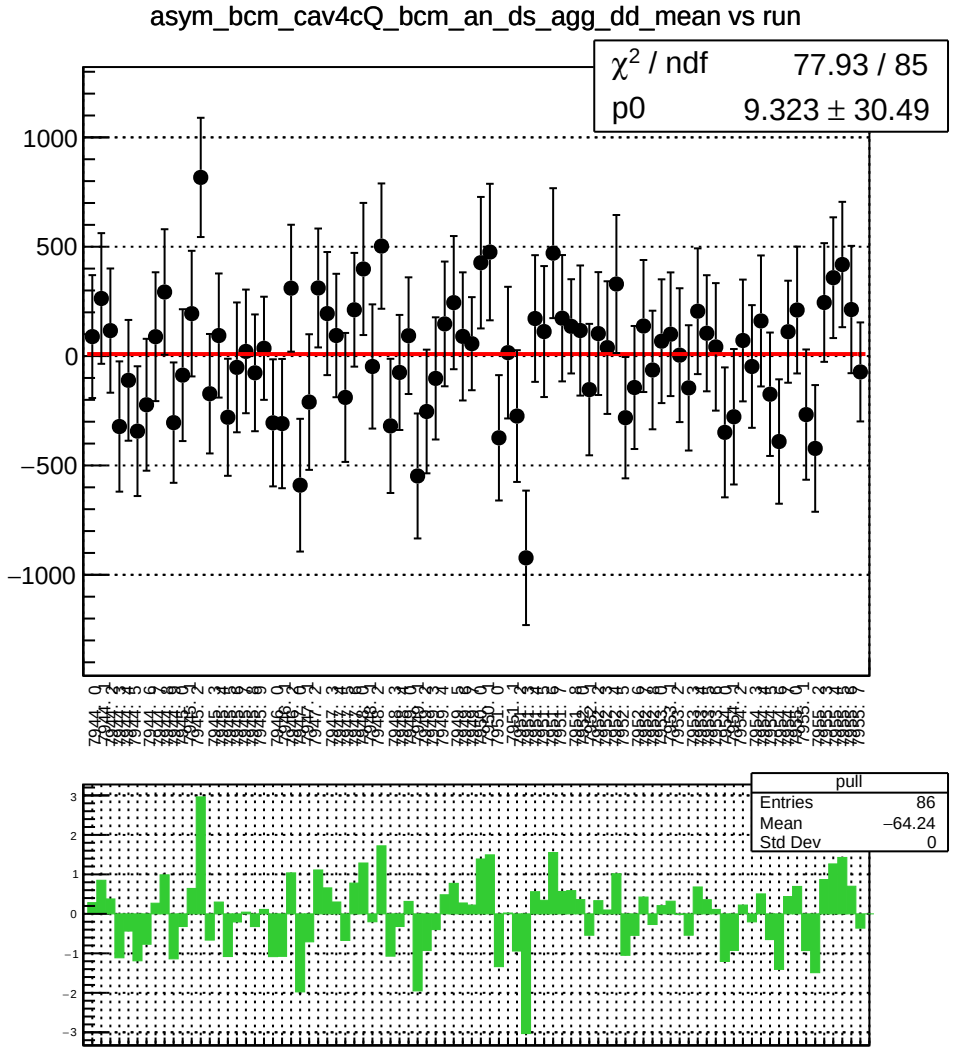

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 79.32 / 85
p0 14.37 ± 30.44
1000
500
0
−500
−1000
pull
Entries 86
Mean 50.62
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01316
Std Dev 0.9603
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

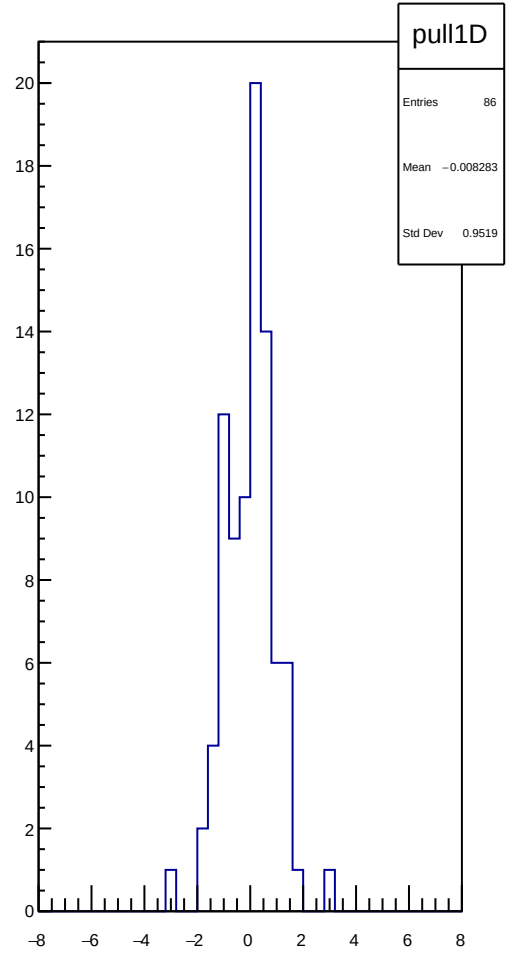

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2636 / 85
p0 27.37 ± 0.02153
30
29
28
27
26
25

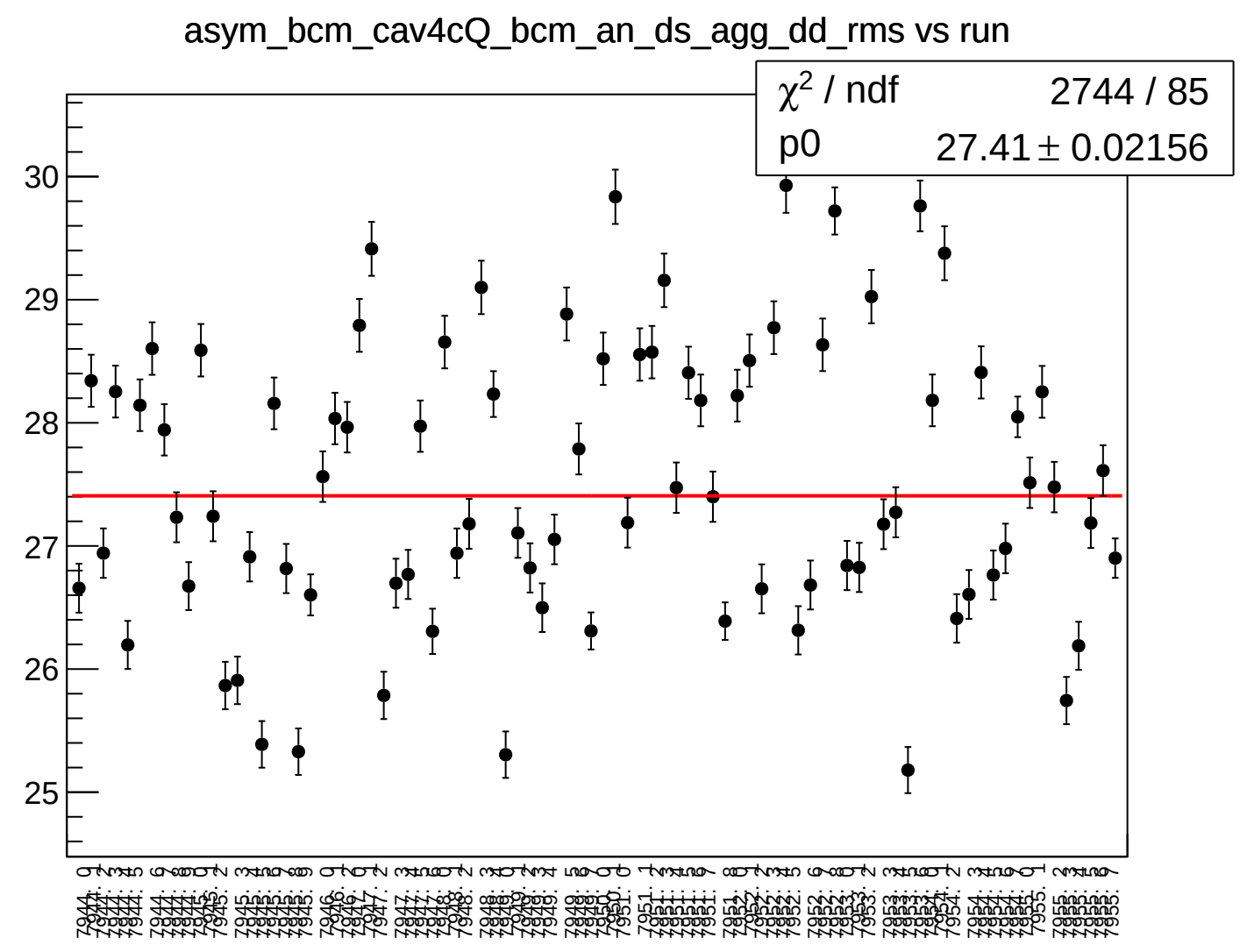

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.25 / 85
p0 −83.16 ± 173.1
pull
Entries 86
Mean 259
Std Dev 0

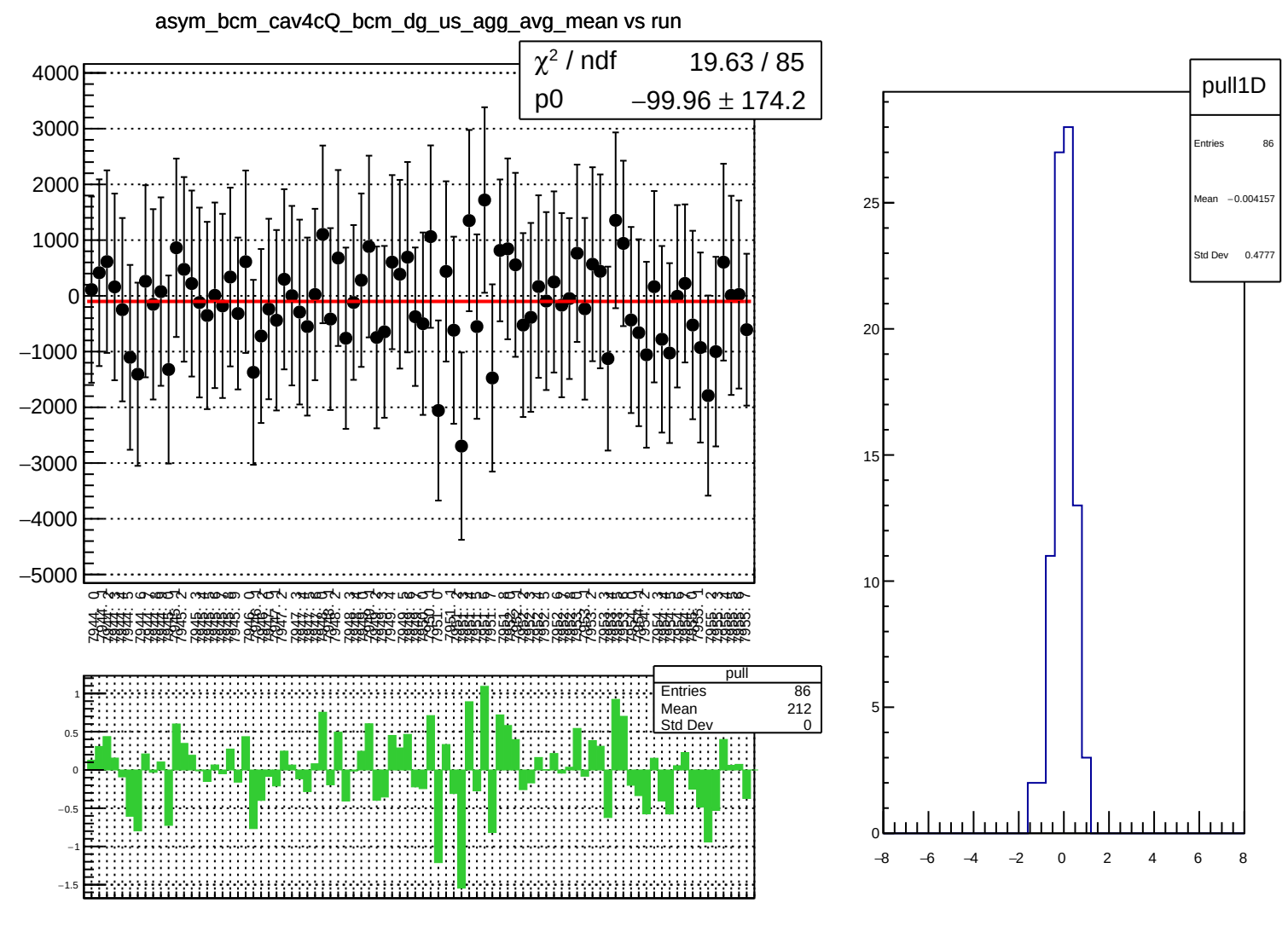

pull1D
Entries 86
Mean −0.004765
Std Dev 0.4731

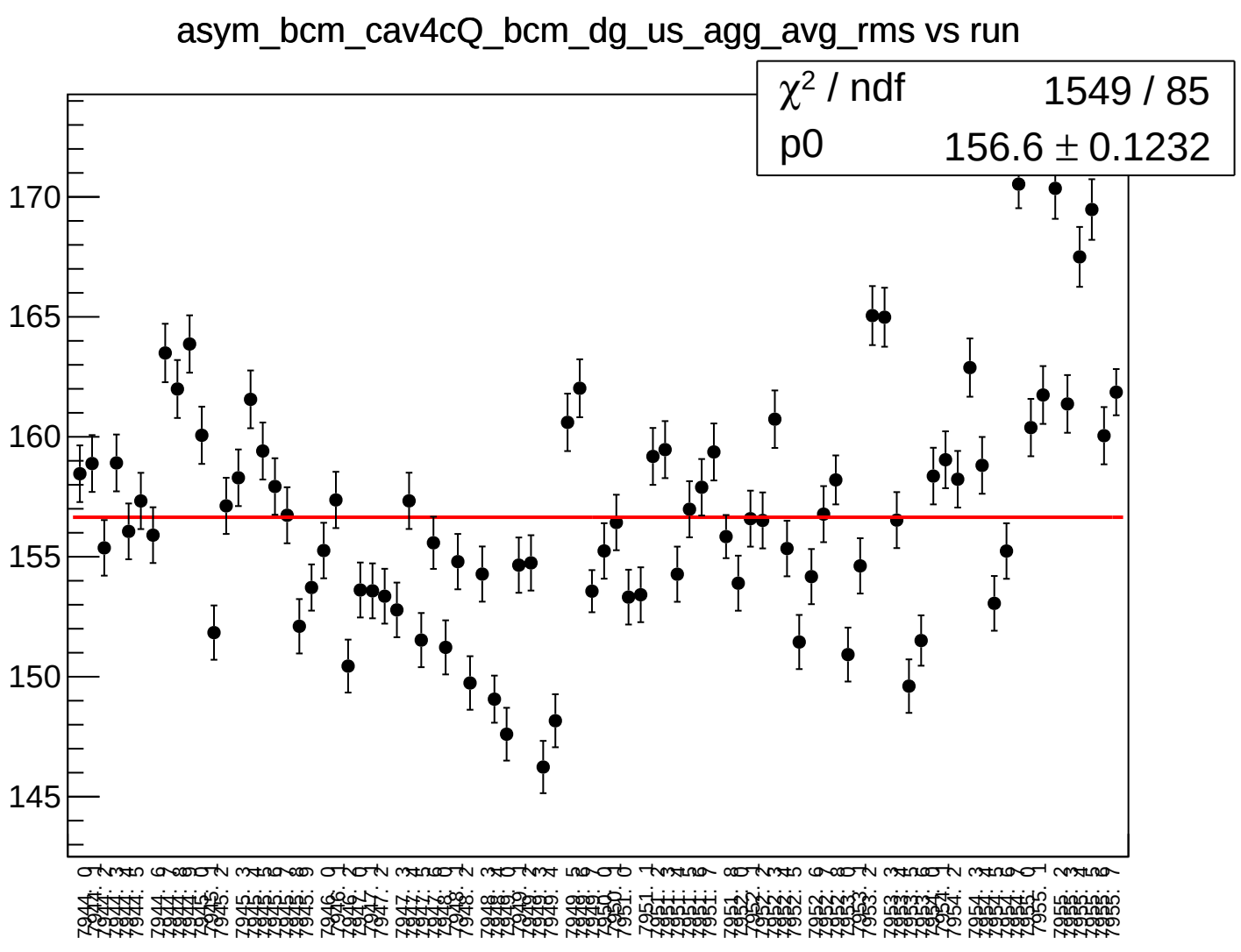

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1678 / 85
p0 155.7 ± 0.1224
170
165
160
155
150
145

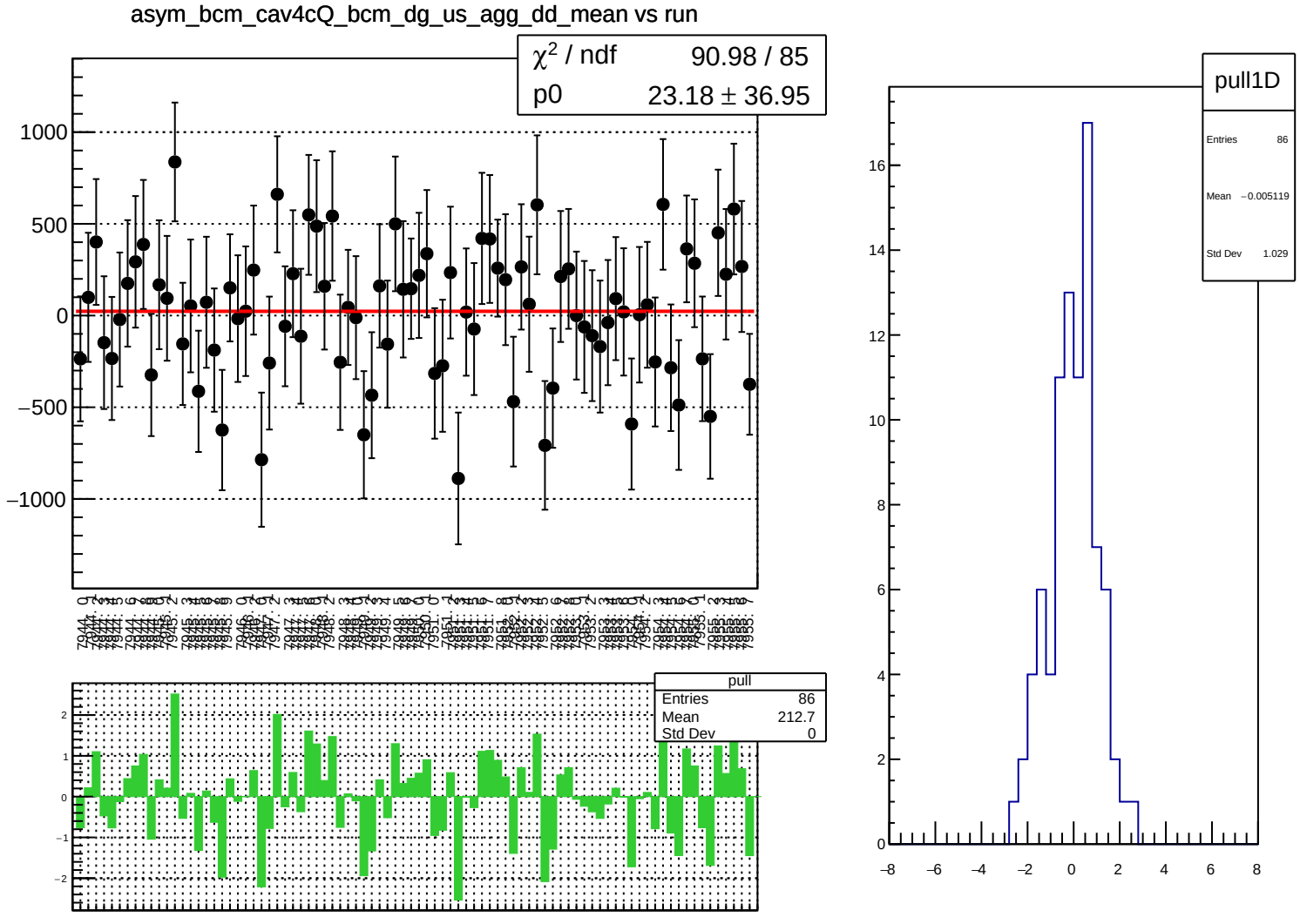

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 77.93 / 85
p0 9.323 ± 30.49
1000
500
0
−500
−1000
pull
Entries 86
Mean −64.24
Std Dev 0
3
2
1
0
−1
−2
−3

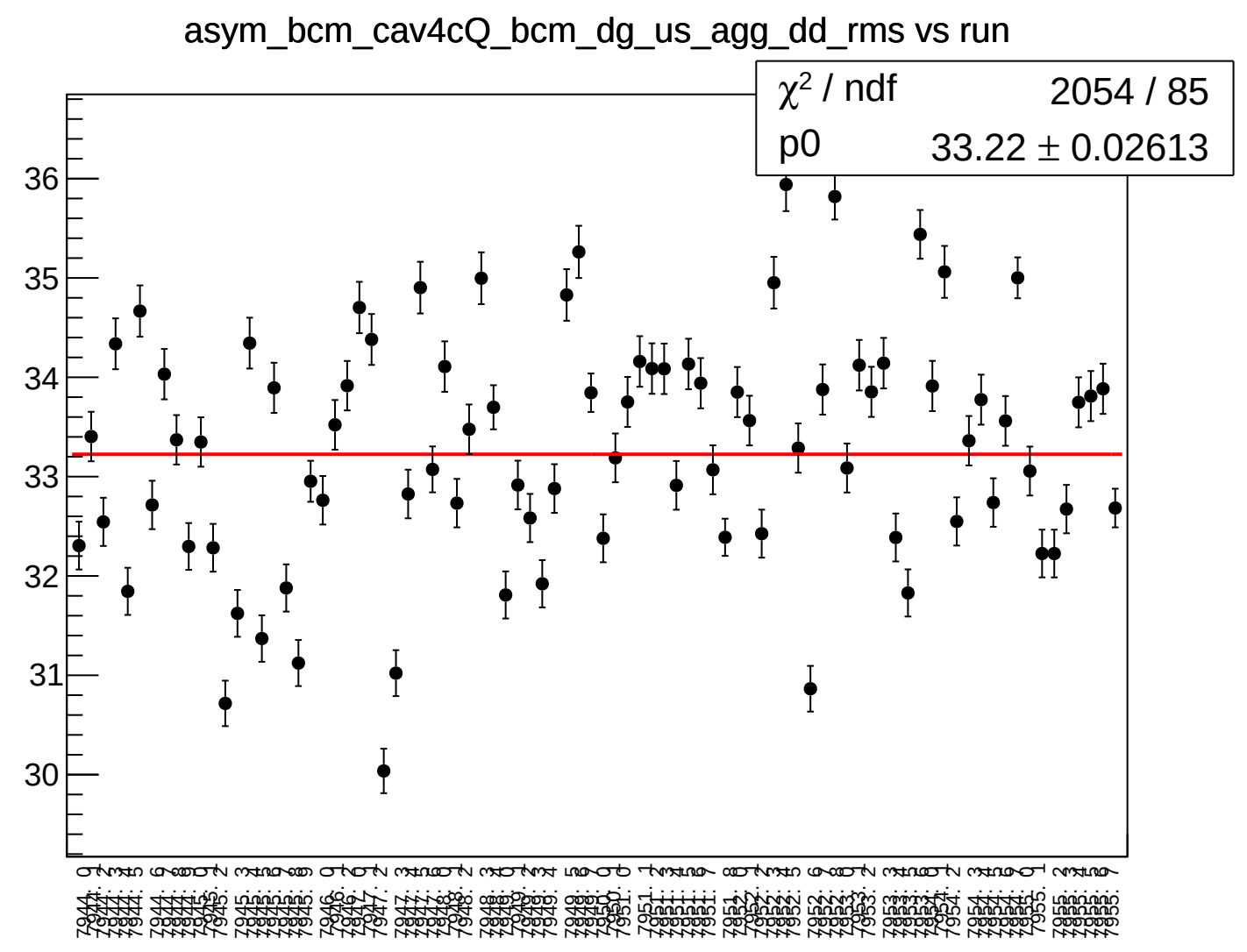

pull1D
Entries 86
Mean −0.008283
Std Dev 0.9519
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

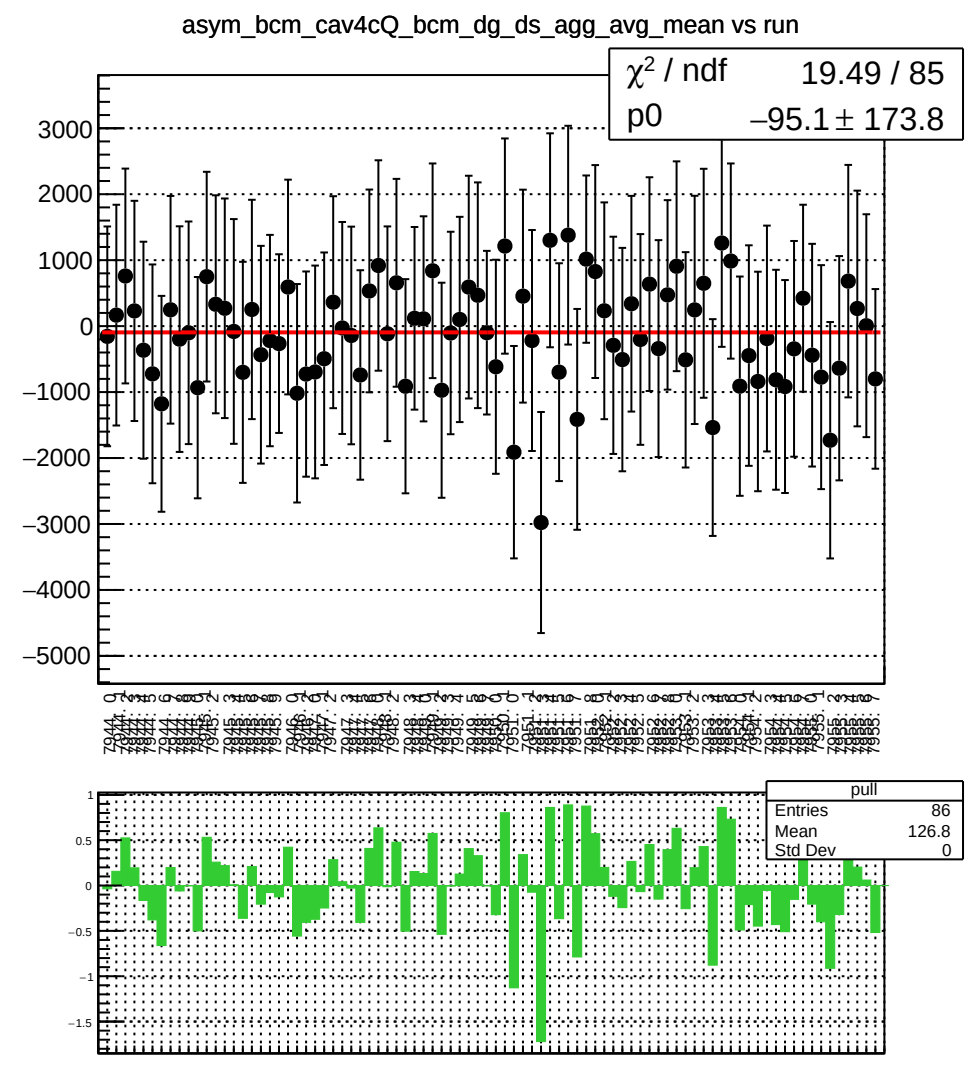

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2744 / 85
p0 27.41 ± 0.02156
30
29
28
27
26
25

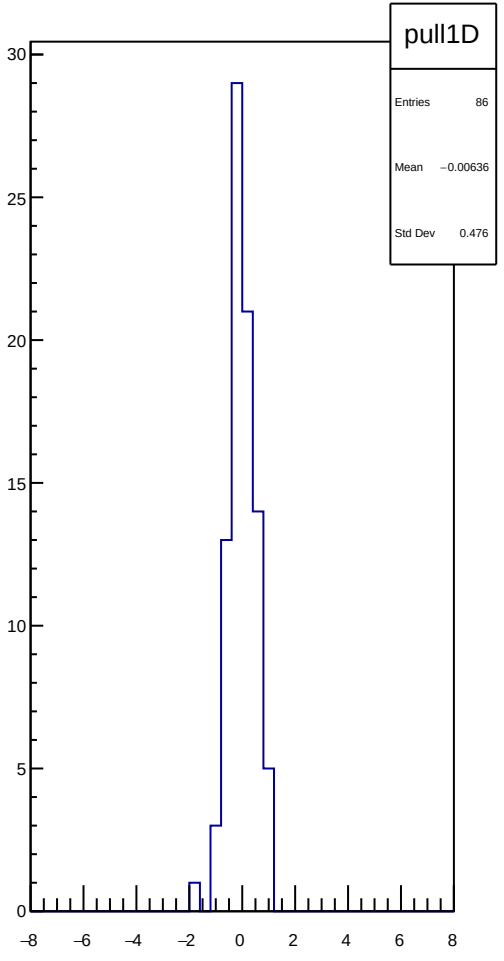

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 19.63 / 85
p0 −99.96 ± 174.2
pull
Entries 86
Mean 212
Std Dev 0
pull1D
Entries 86
Mean −0.004157
Std Dev 0.4777

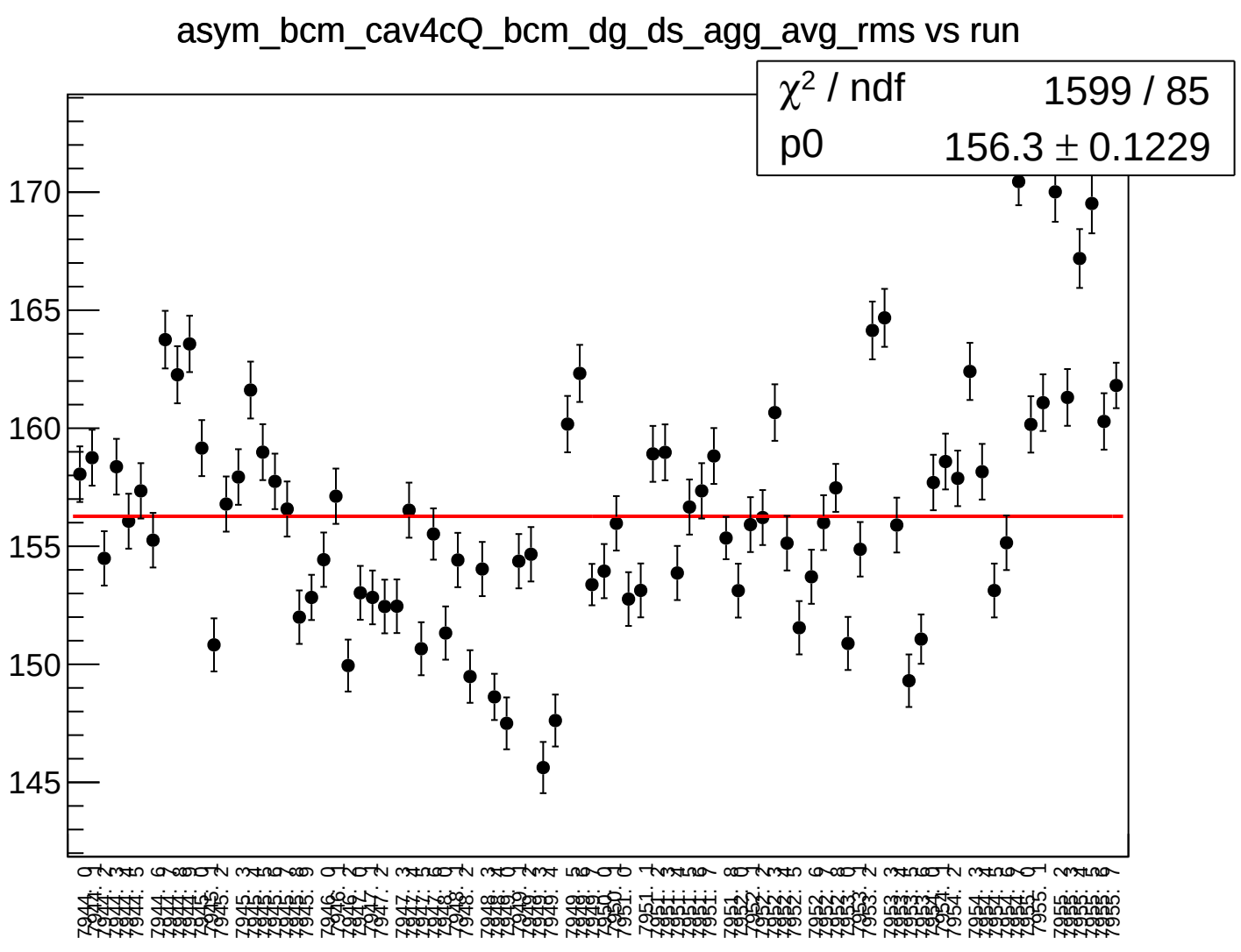

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1549 / 85
p0 156.6 ± 0.1232
170
165
160
155
150
145

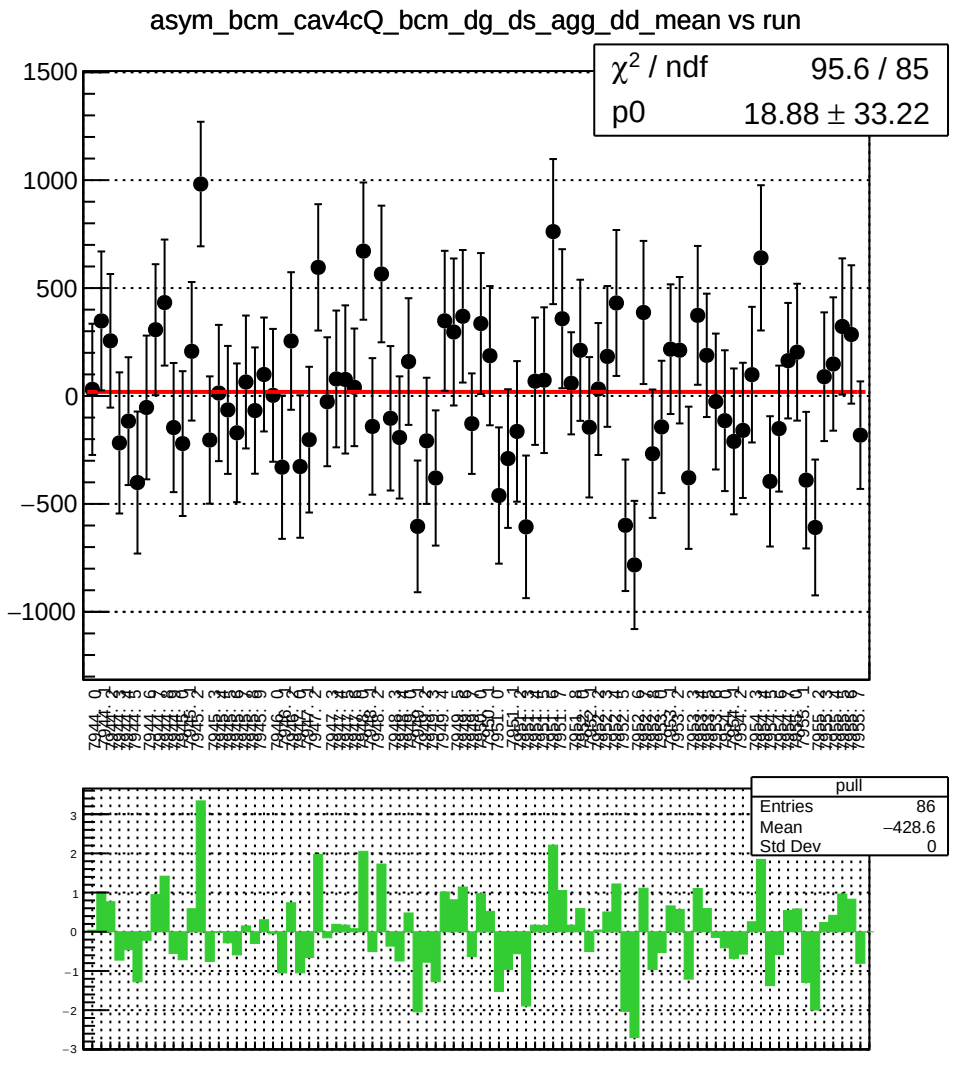

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 90.98 / 85
p0 23.18 ± 36.95
1000
500
0
−500
−1000
pull
Entries 86
Mean 212.7
Std Dev 0
pull1D
Entries 86
Mean −0.005119
Std Dev 1.029

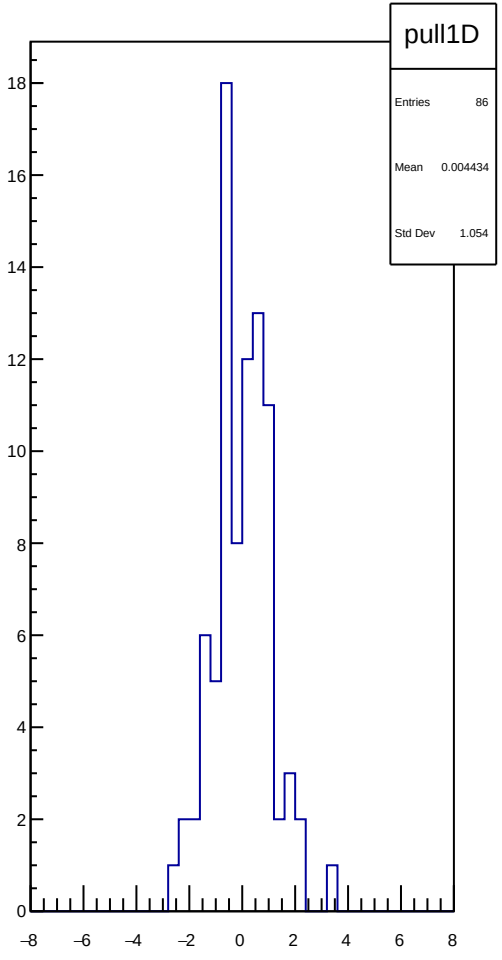

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2054 / 85
p0 33.22 ± 0.02613
36
35
34
33
32
31
30

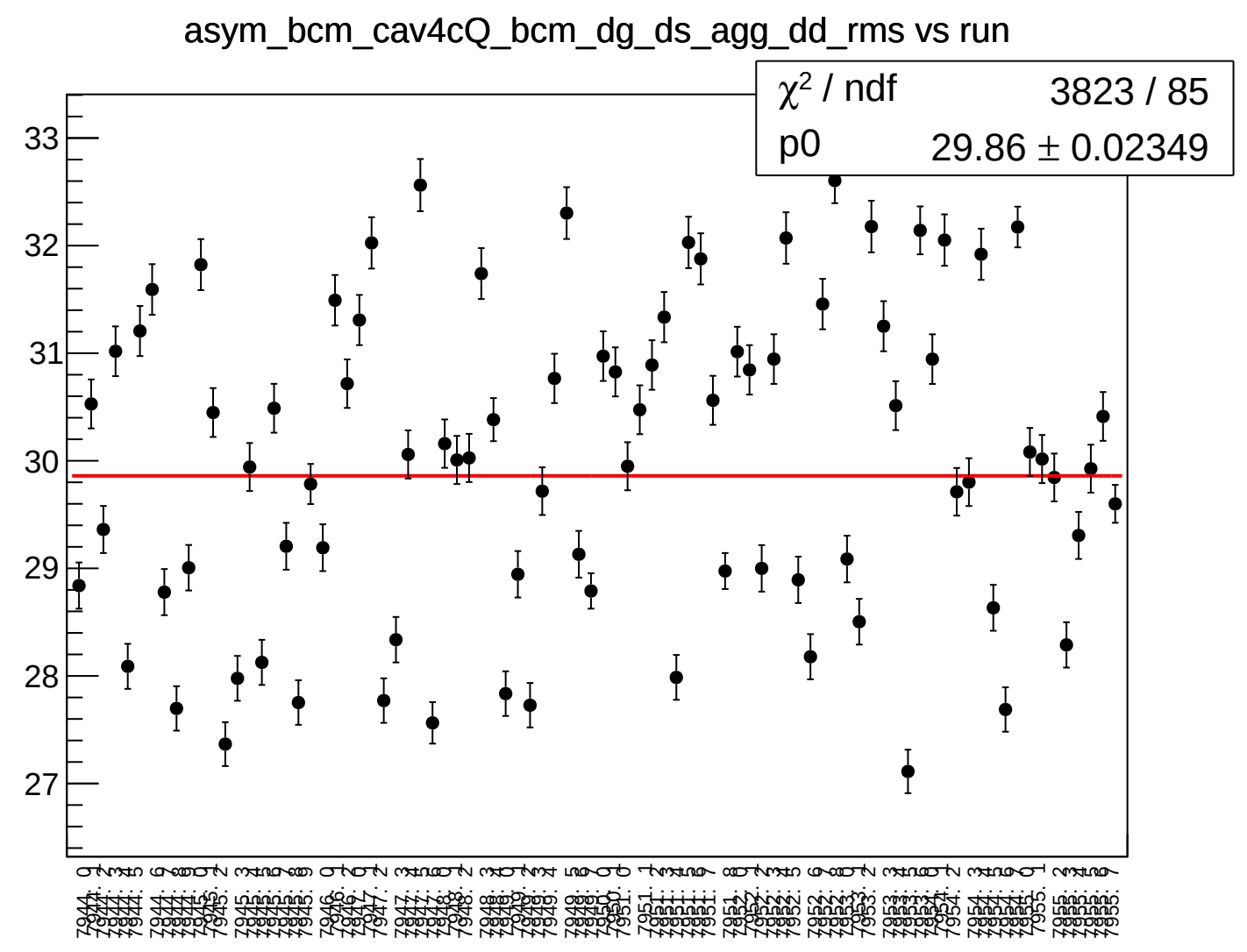

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 19.49 / 85
p0 −95.1 ± 173.8
pull
Entries 86
Mean 126.8
Std Dev 0

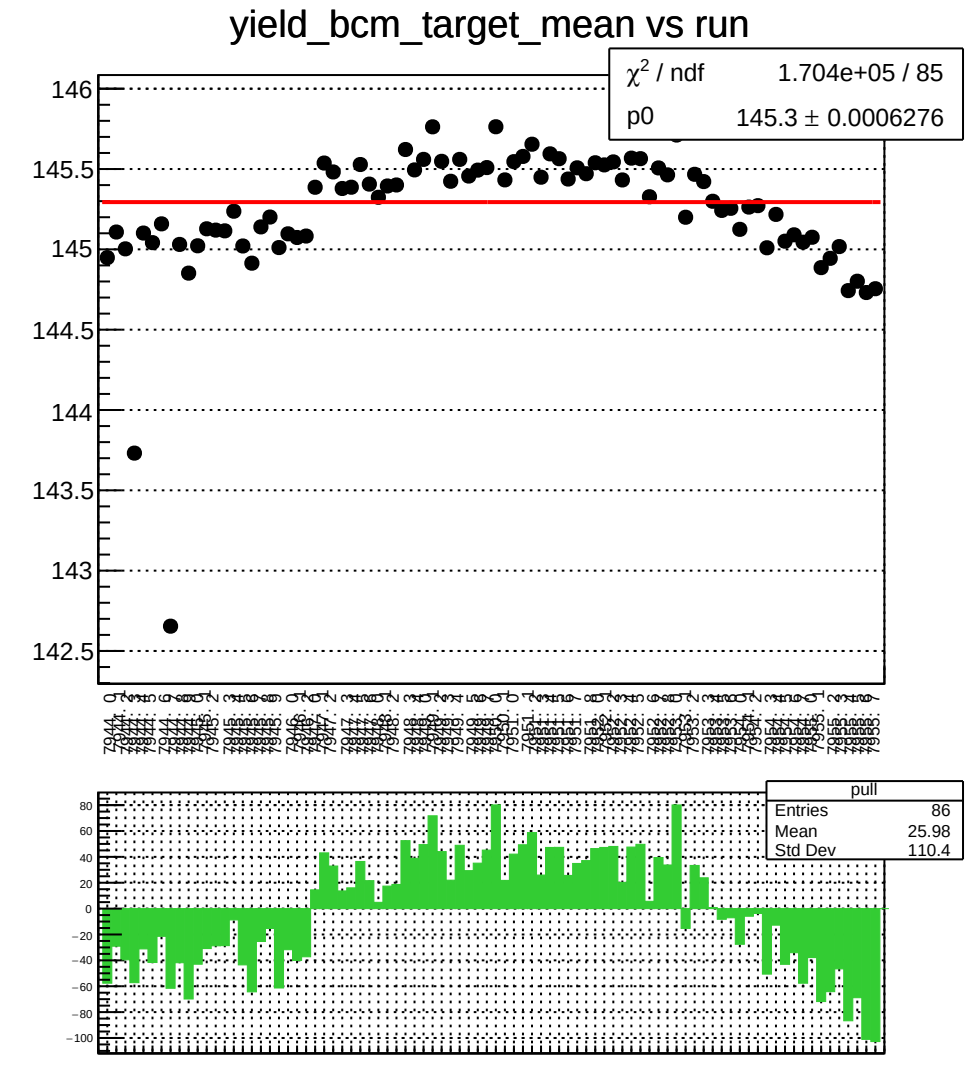

pull1D
Entries 86
Mean −0.00636
Std Dev 0.476

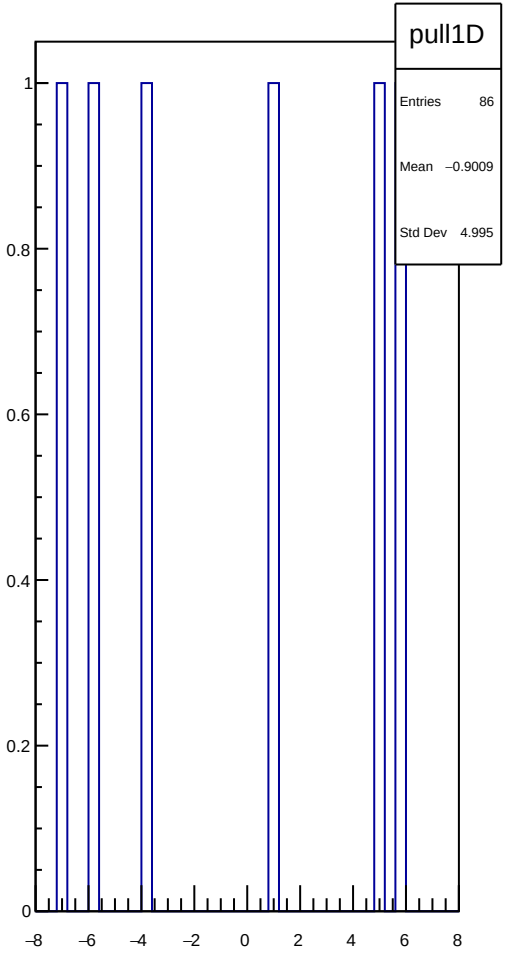

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1599 / 85
p0 156.3 ± 0.1229
170
165
160
155
150
145

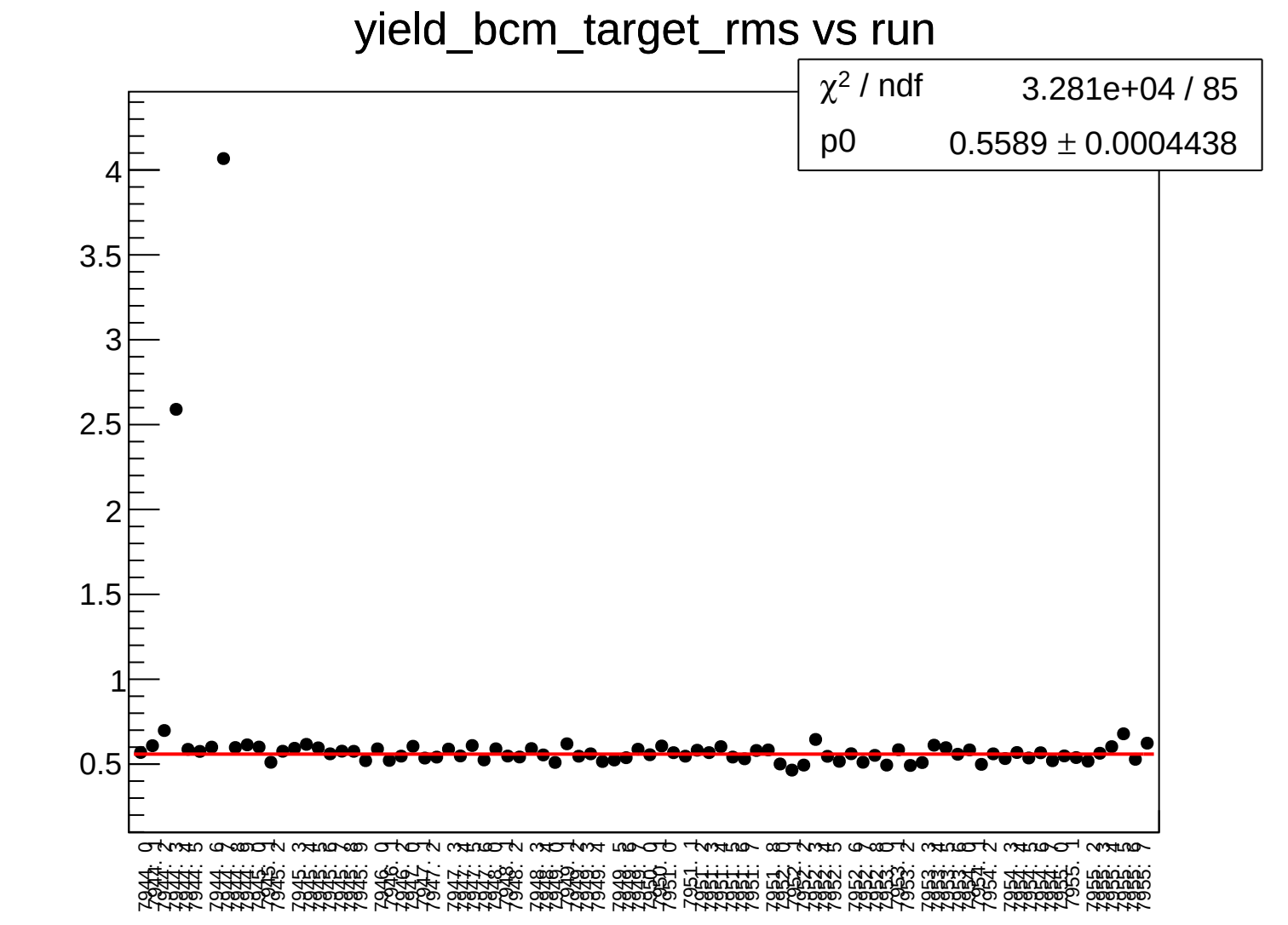

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 95.6 / 85
p0 18.88 ± 33.22
pull
Entries 86
Mean −428.6
Std Dev 0

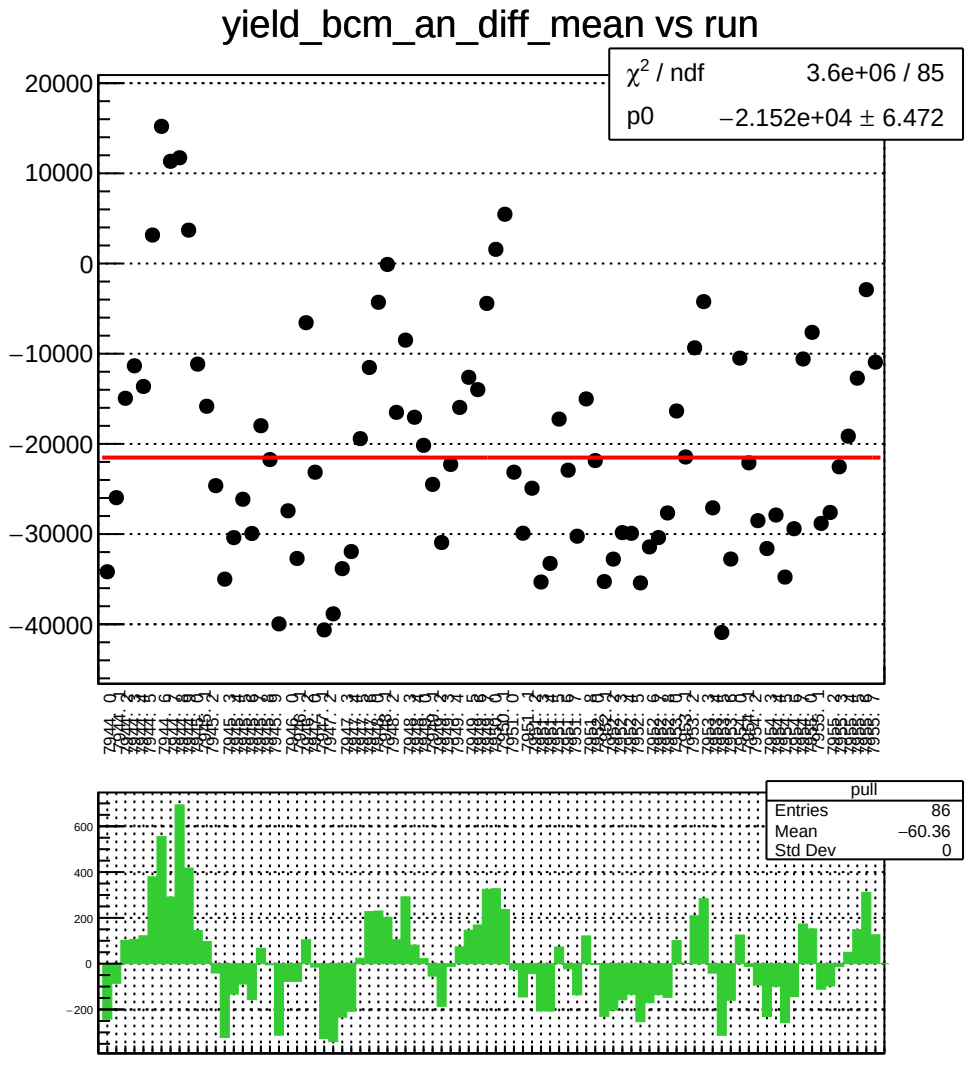

pull1D
Entries 86
Mean 0.004434
Std Dev 1.054

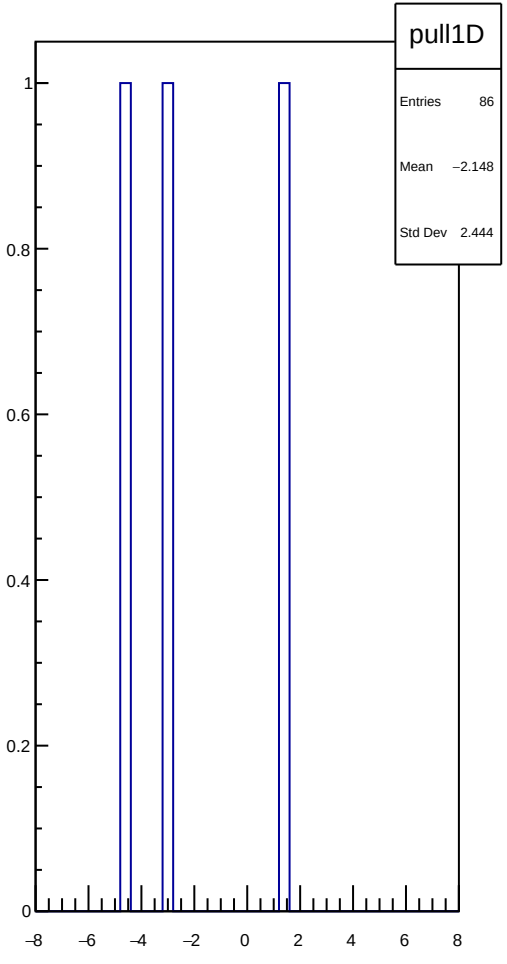

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3823 / 85
p0 29.86 ± 0.02349
33
32
31
30
29
28
27

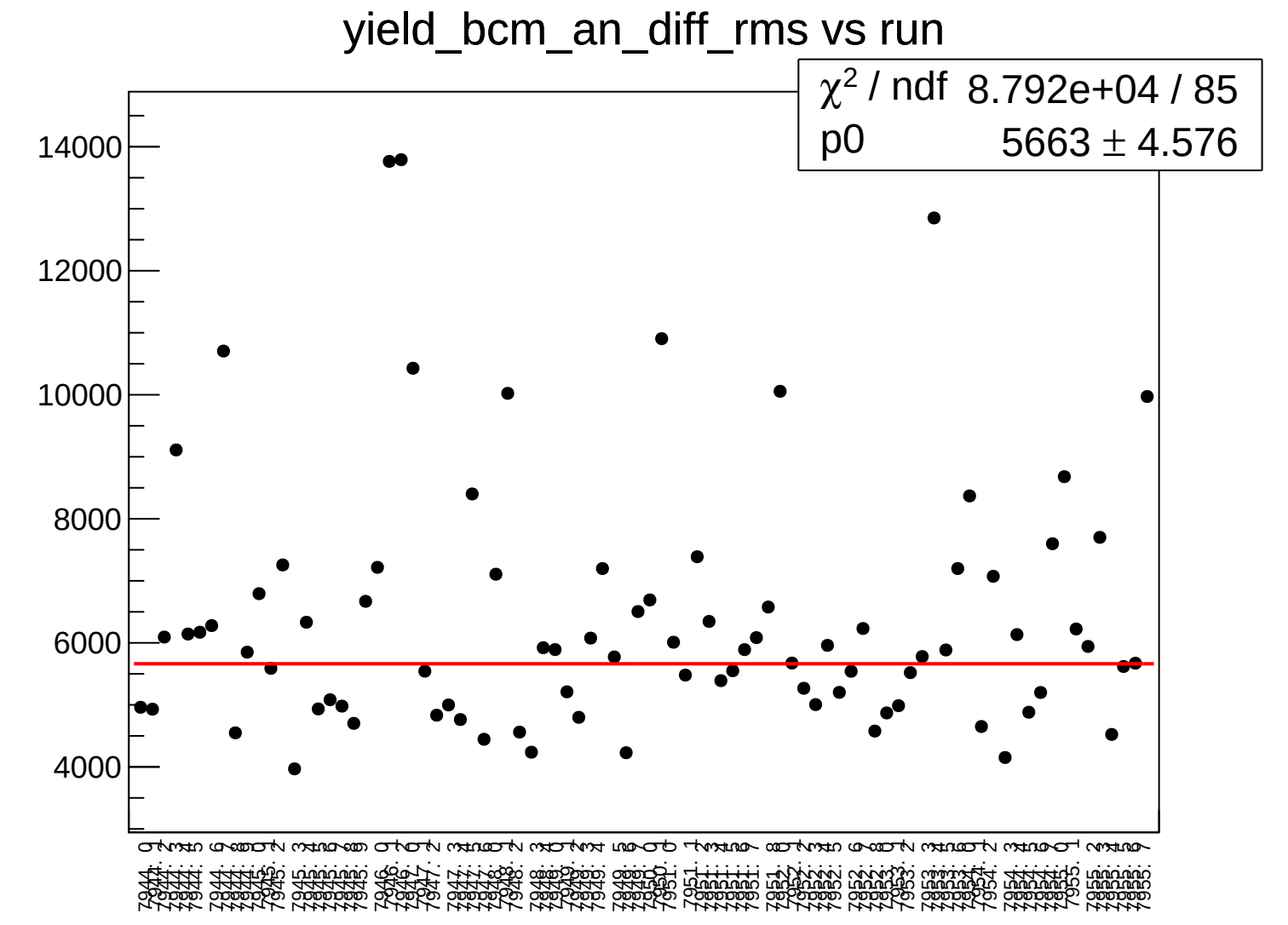

yield_bcm_target_mean vs run
χ² / ndf 1.704e+05 / 85
p0 145.3 ± 0.0006276
146
145.5
145
144.5
144
143.5
143
142.5
pull
Entries 86
Mean 25.98
Std Dev 110.4
80
60
40
20
0
−20
−40
−60
−80
−100

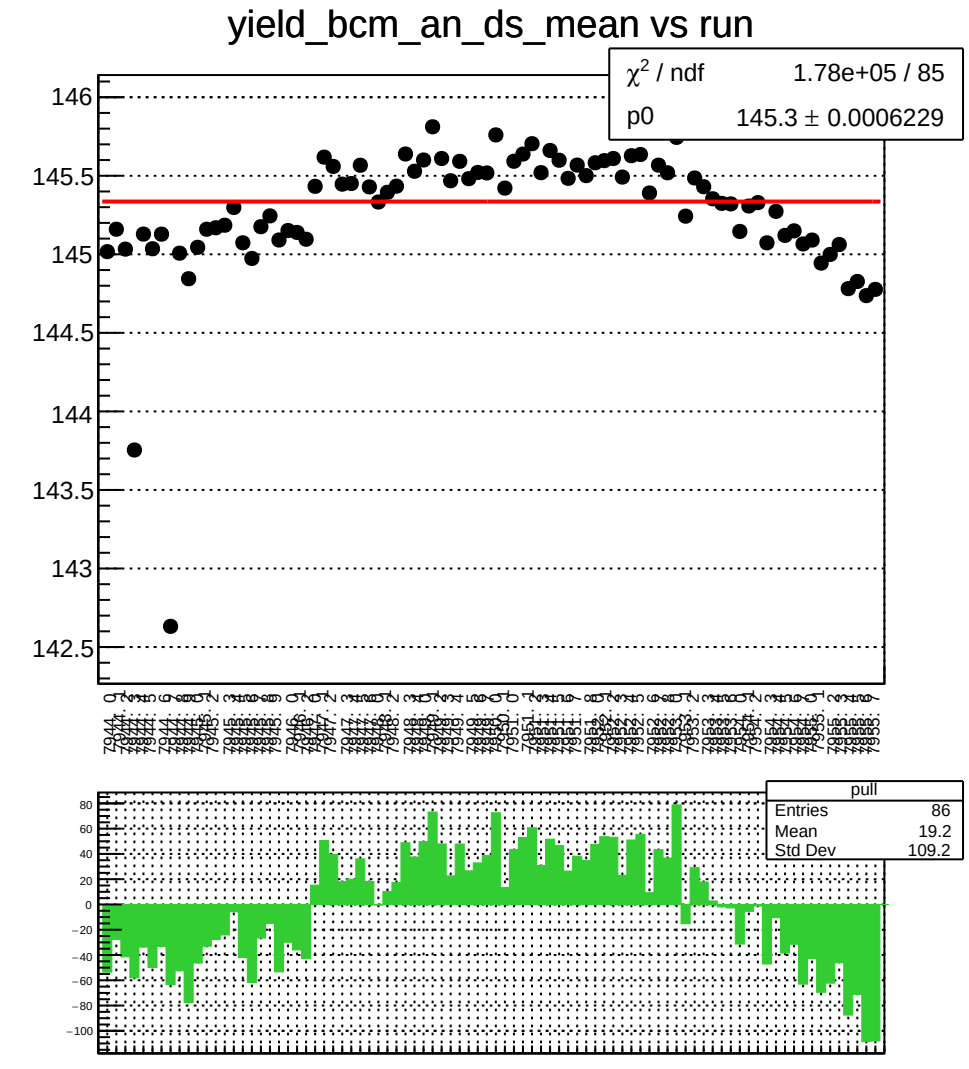

pull1D
Entries 86
Mean −0.9009
Std Dev 4.995
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

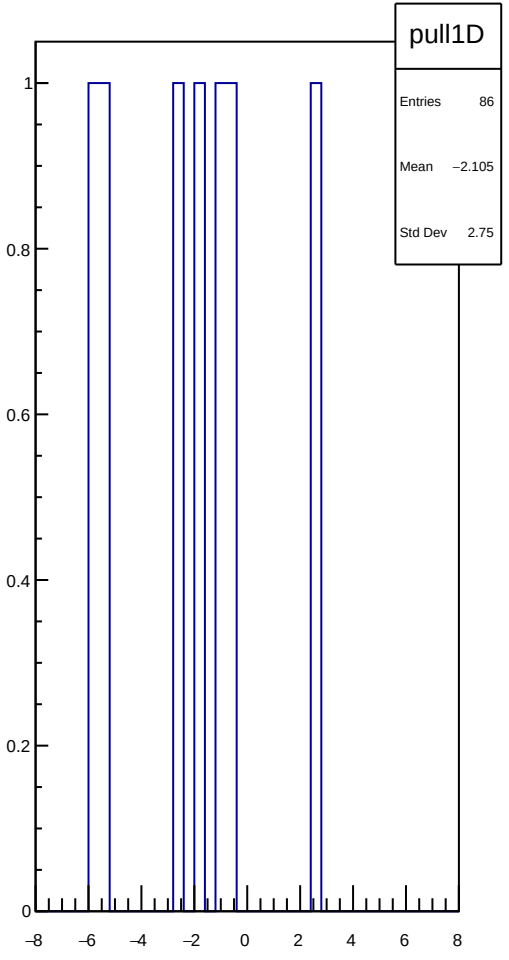

yield_bcm_target_rms vs run
χ² / ndf 3.281e+04 / 85
p0 0.5589 ± 0.0004438
4
3.5
3
2.5
2
1.5
1
0.5

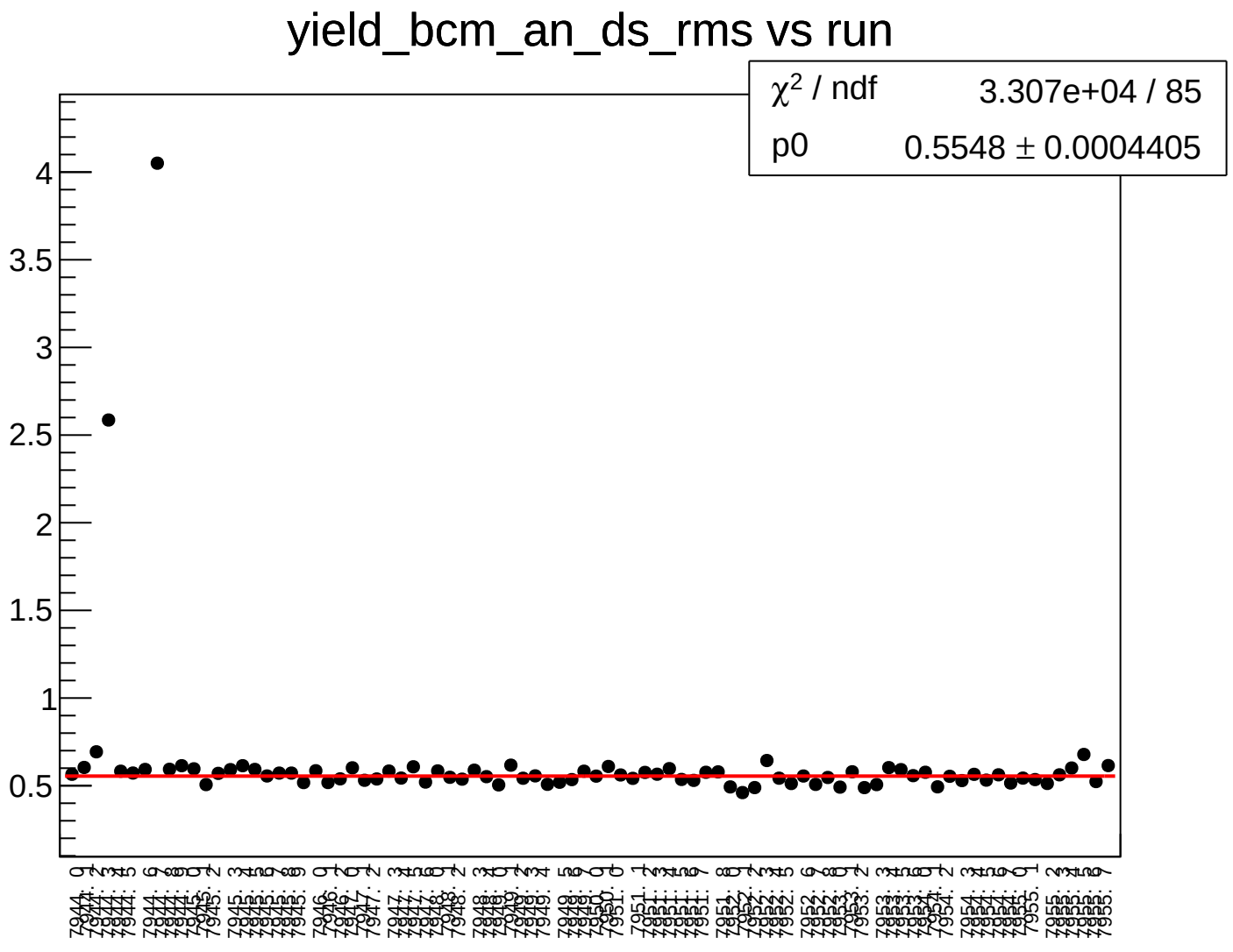

yield_bcm_an_diff_mean vs run
χ² / ndf 3.6e+06 / 85
p0 −2.152e+04 ± 6.472
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −60.36
Std Dev 0
600
400
200
0
−200

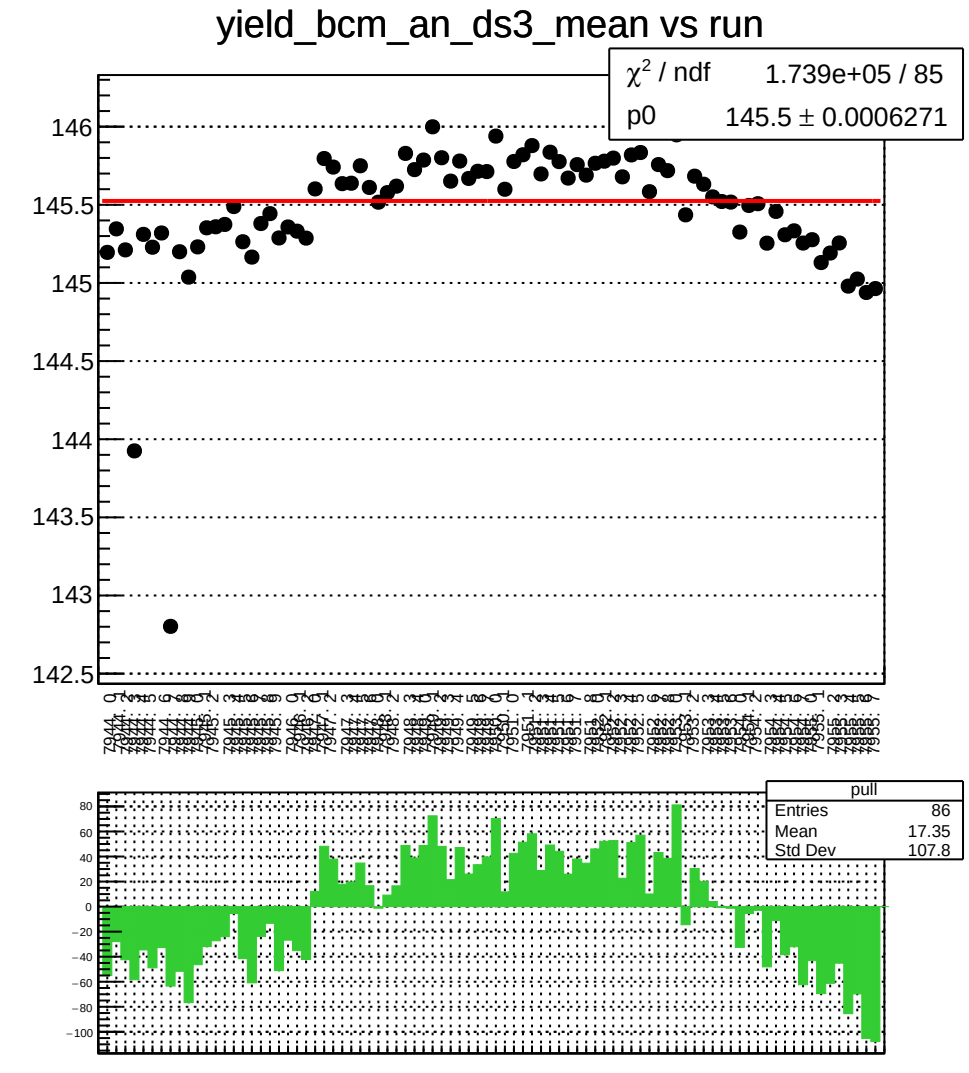

pull1D
Entries 86
Mean −2.148
Std Dev 2.444
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

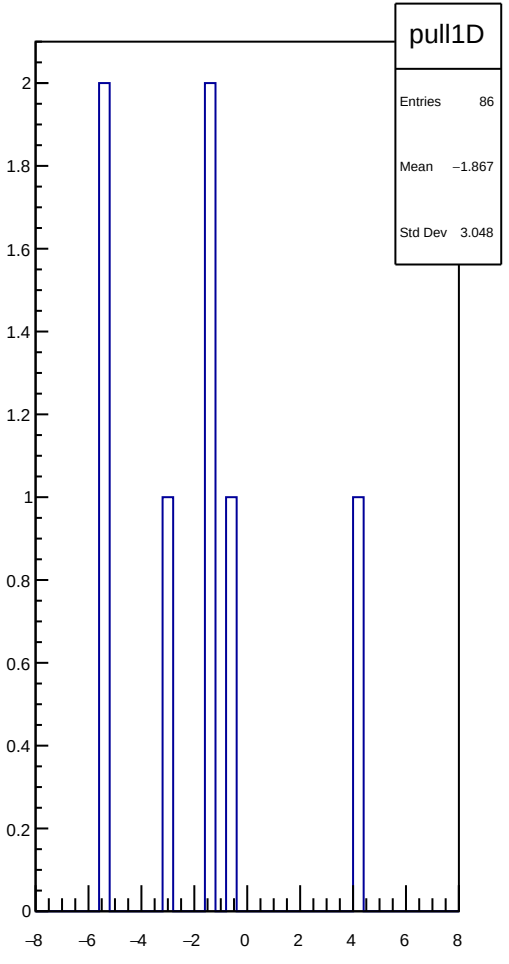

yield_bcm_an_diff_rms vs run
χ² / ndf 8.792e+04 / 85
p0 5663 ± 4.576
14000
12000
10000
8000
6000
4000

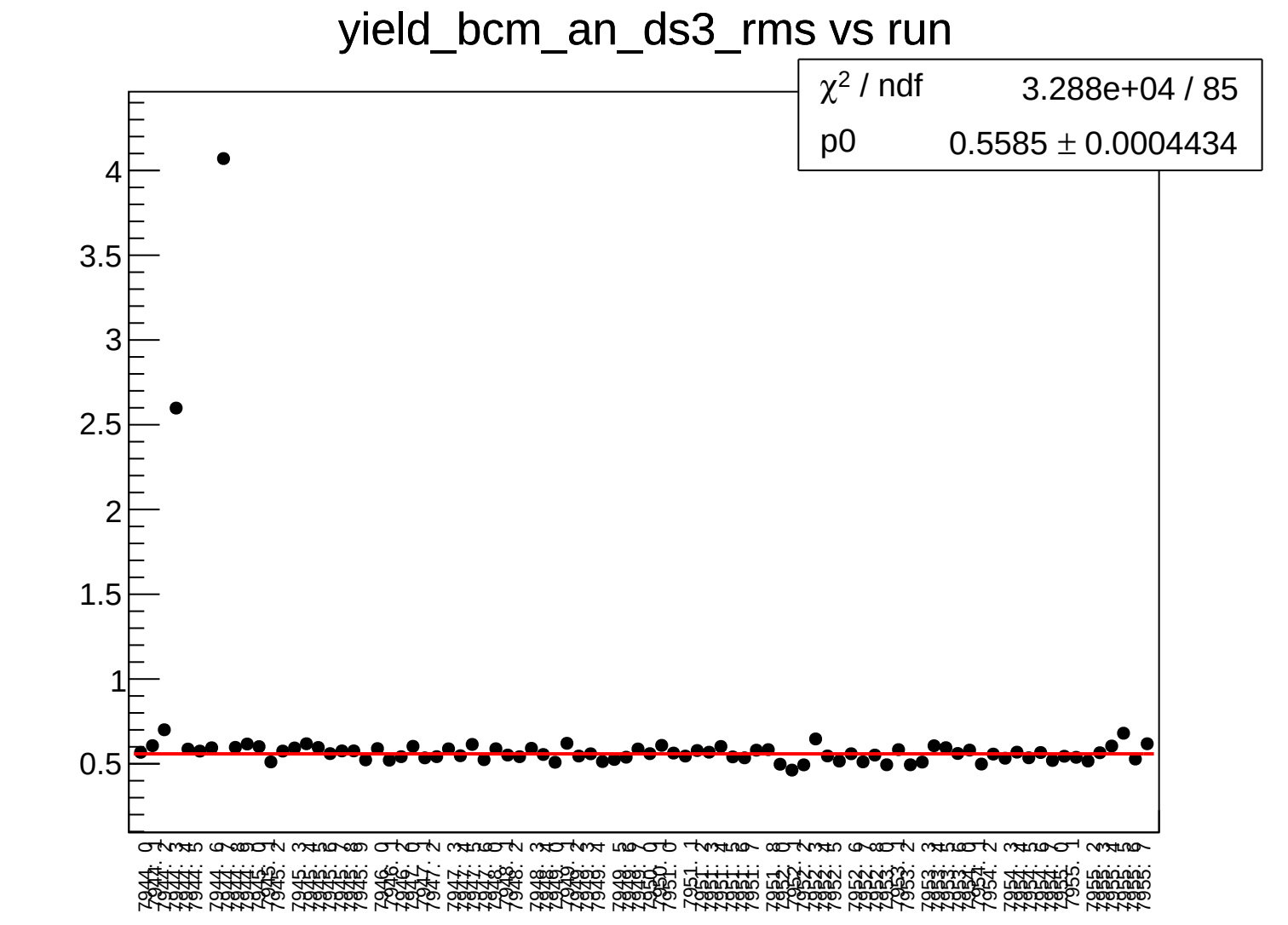

yield_bcm_an_ds_mean vs run
χ² / ndf 1.78e+05 / 85
p0 145.3 ± 0.0006229
146
145.5
145
144.5
144
143.5
143
142.5
pull
Entries 86
Mean 19.2
Std Dev 109.2
80
60
40
20
0
−20
−40
−60
−80
−100

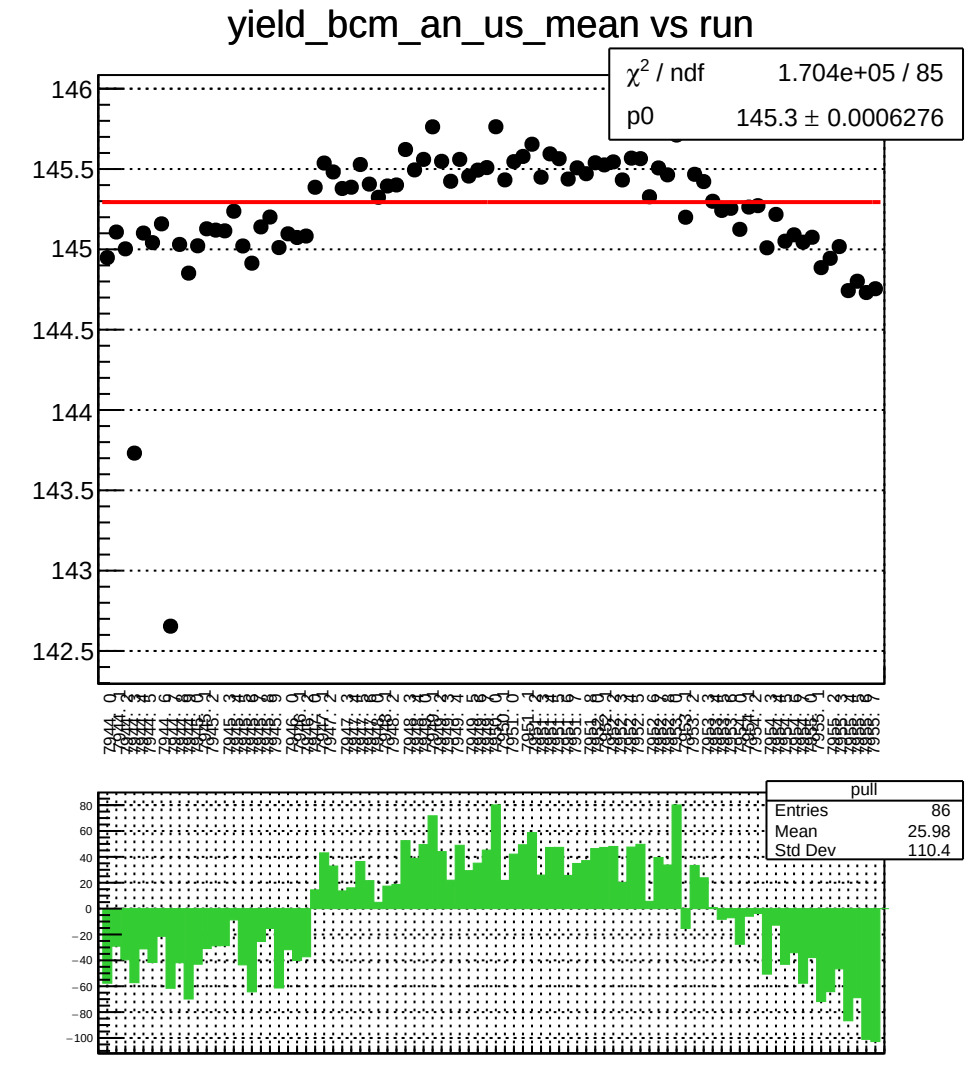

pull1D
Entries 86
Mean −2.105
Std Dev 2.75
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

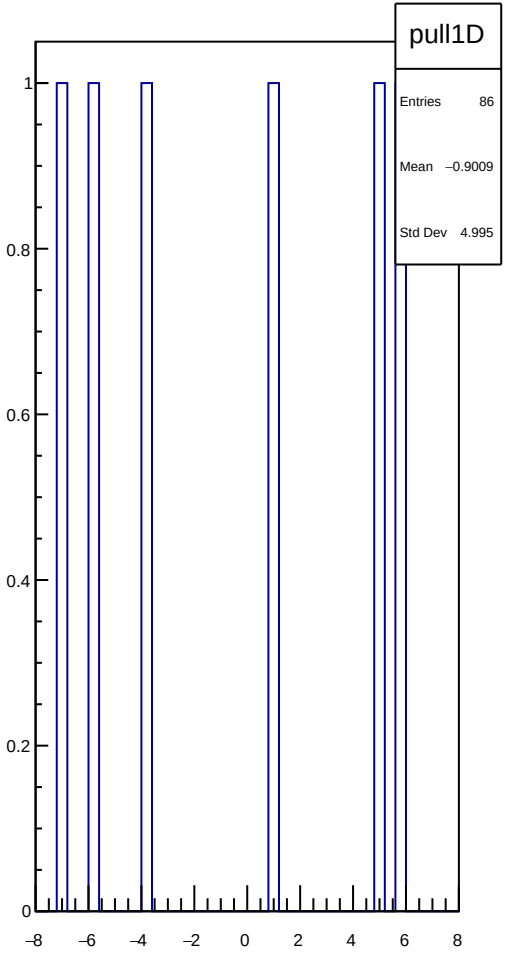

yield_bcm_an_ds_rms vs run
χ^2 / ndf 3.307e+04 / 85
p0 0.5548 ± 0.0004405
4
3.5
3
2.5
2
1.5
1
0.5

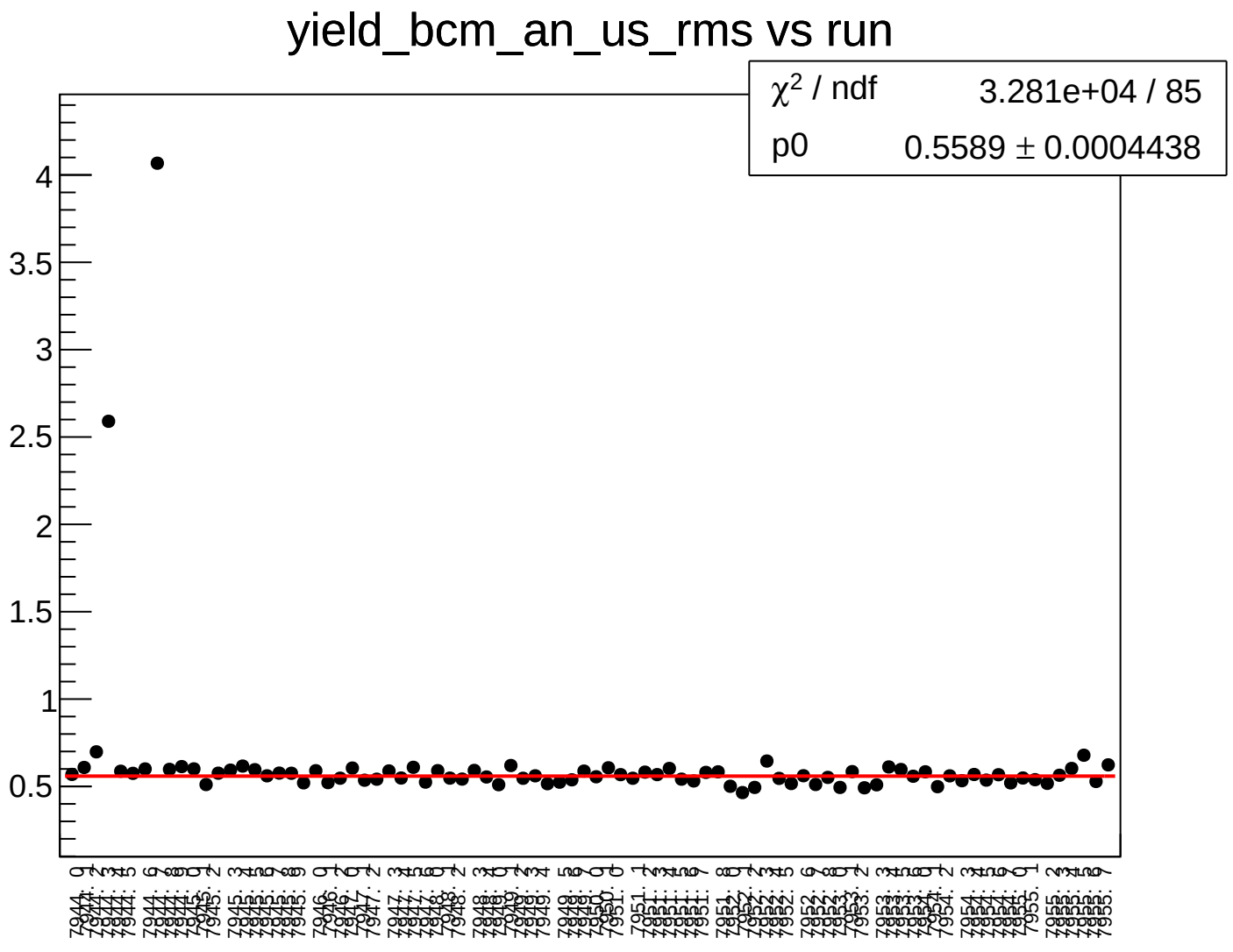

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.739e+05 / 85
p0 145.5 ± 0.0006271
146
145.5
145
144.5
144
143.5
143
142.5
pull
Entries 86
Mean 17.35
Std Dev 107.8
80
60
40
20
0
−20
−40
−60
−80
−100

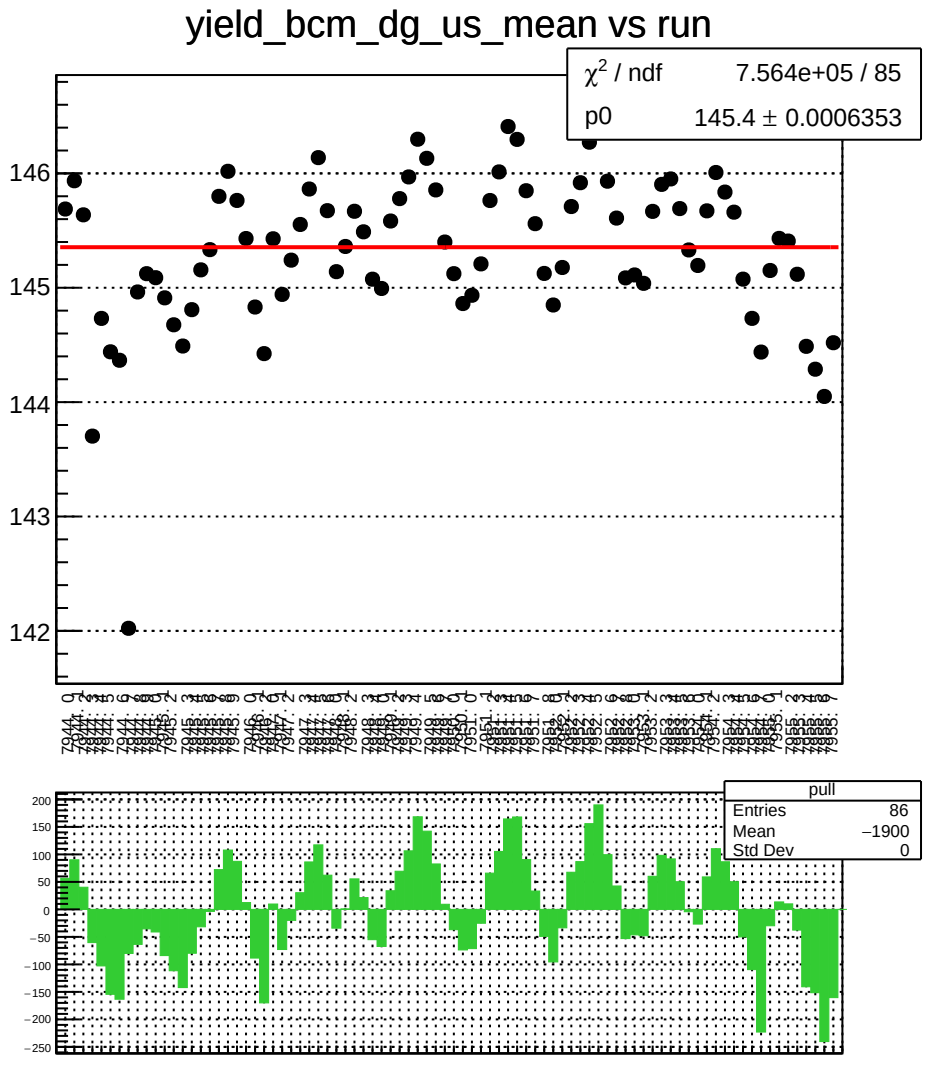

pull1D
Entries 86
Mean −1.867
Std Dev 3.048
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

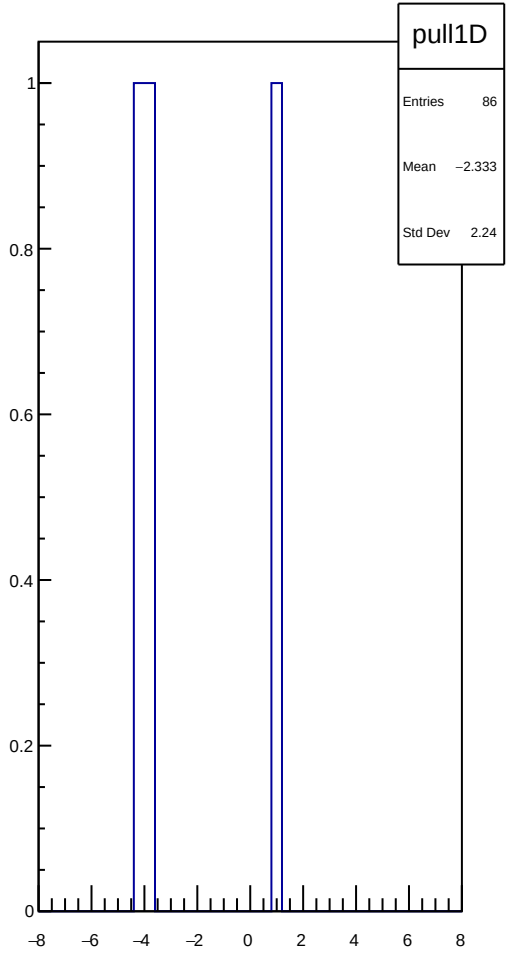

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 3.288e+04 / 85
p0 0.5585 ± 0.0004434
4
3.5
3
2.5
2
1.5
1
0.5

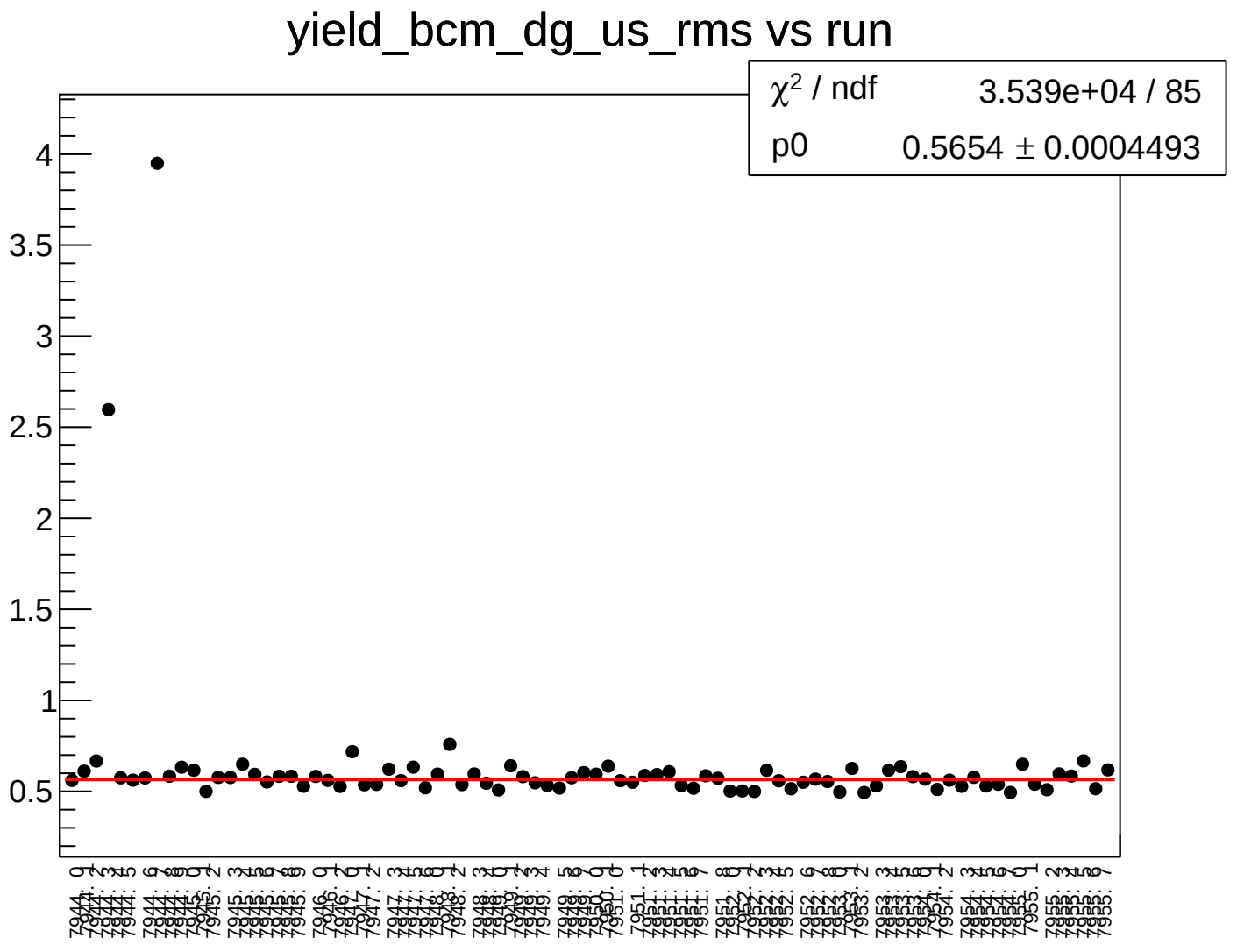

yield_bcm_an_us_mean vs run
χ² / ndf 1.704e+05 / 85
p0 145.3 ± 0.0006276
146
145.5
145
144.5
144
143.5
143
142.5
pull
Entries 86
Mean 25.98
Std Dev 110.4
80
60
40
20
0
−20
−40
−60
−80
−100

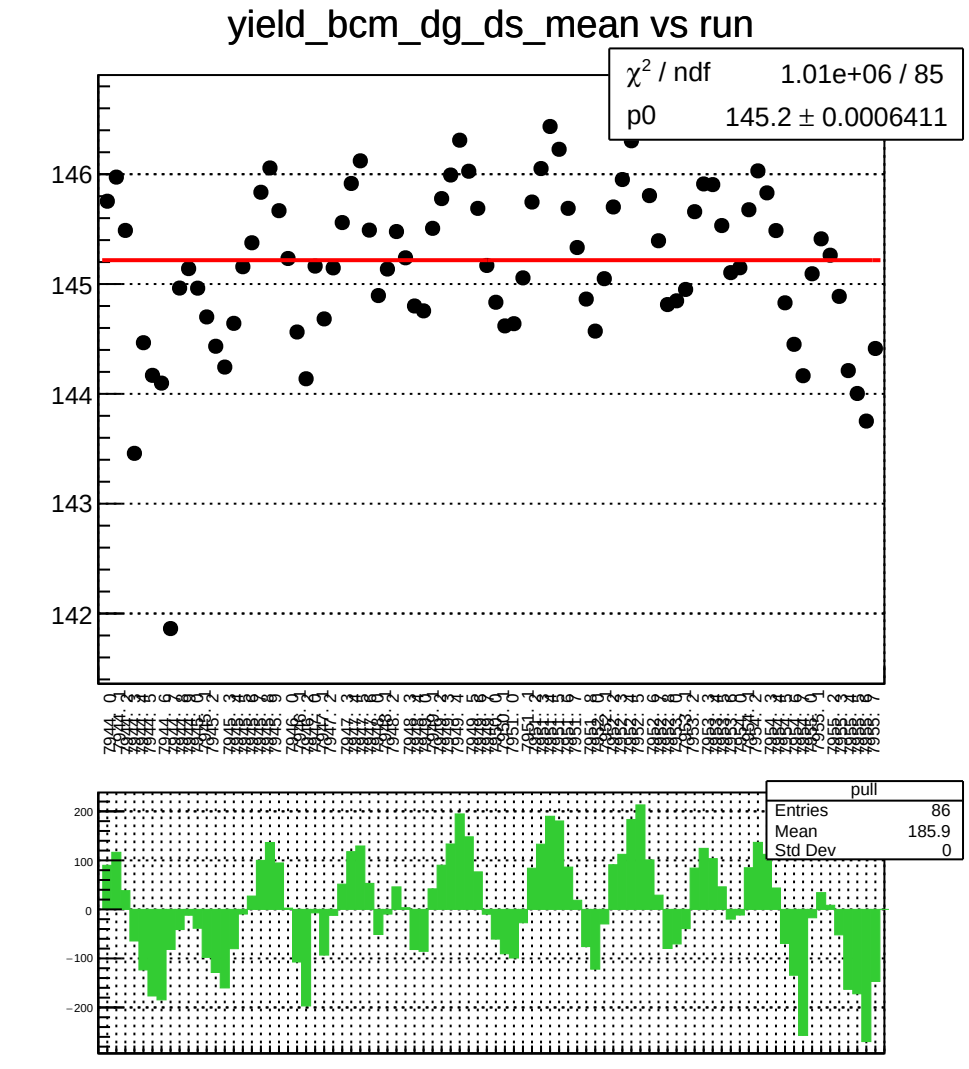

pull1D
Entries 86
Mean −0.9009
Std Dev 4.995
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

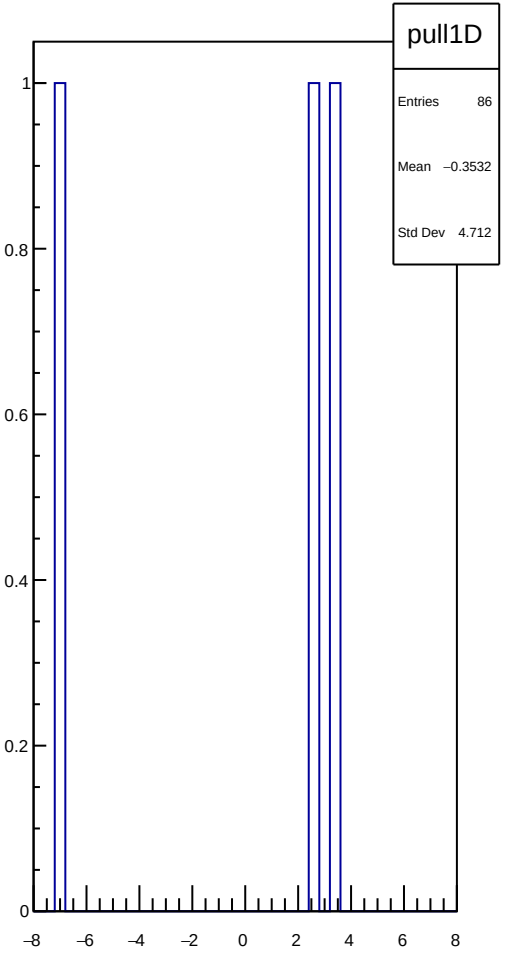

yield_bcm_an_us_rms vs run
χ² / ndf 3.281e+04 / 85
p0 0.5589 ± 0.0004438
4
3.5
3
2.5
2
1.5
1
0.5

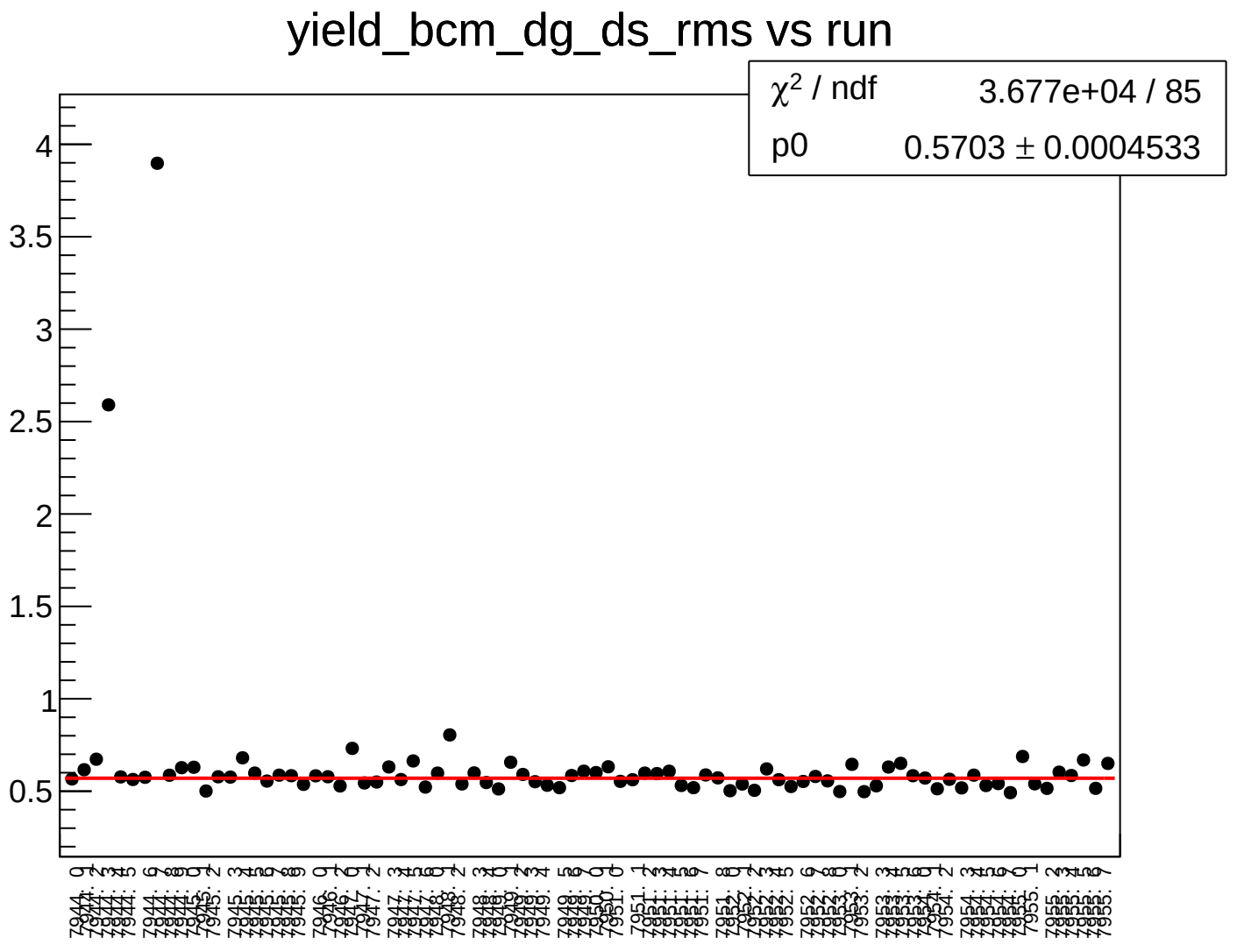

yield_bcm_dg_us_mean vs run
χ² / ndf 7.564e+05 / 85
p0 145.4 ± 0.0006353
146
145
144
143
142
pull
Entries 86
Mean −1900
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

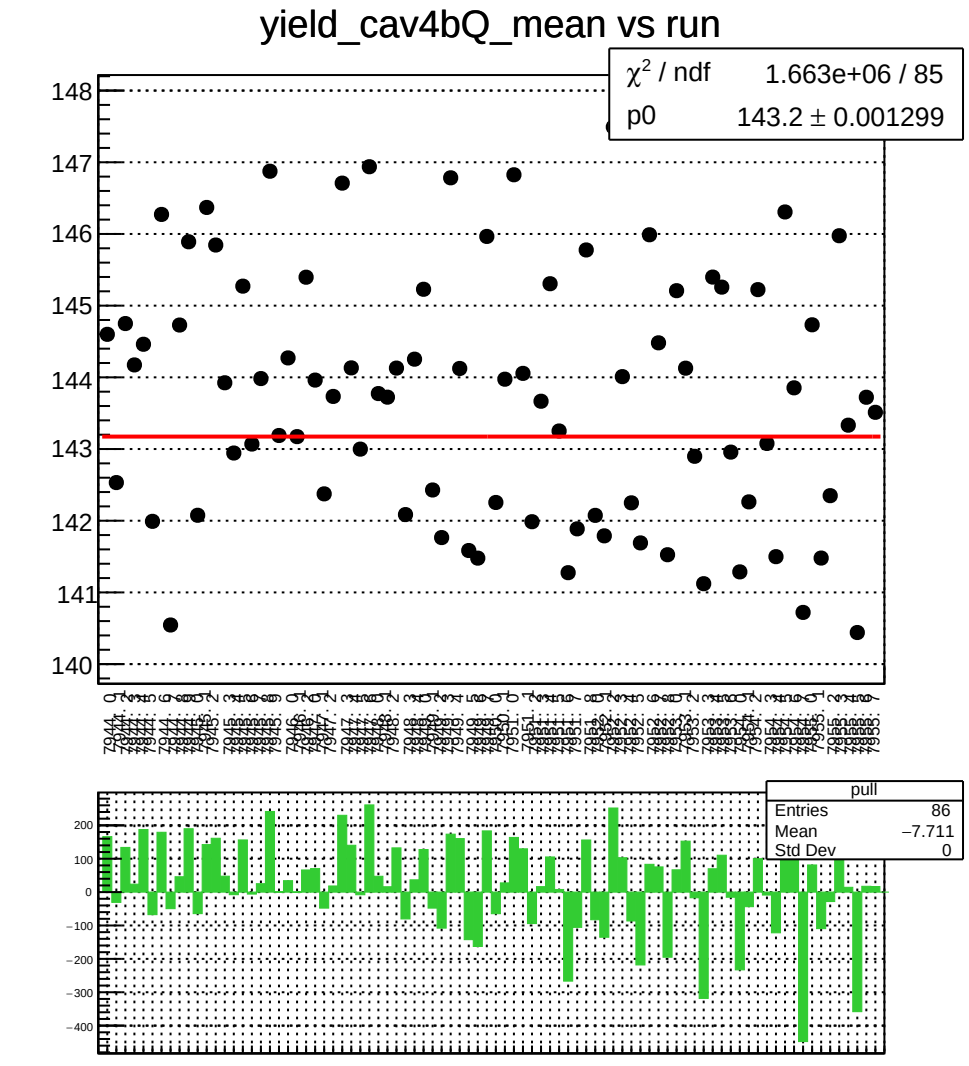

pull1D
Entries 86
Mean −2.333
Std Dev 2.24
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

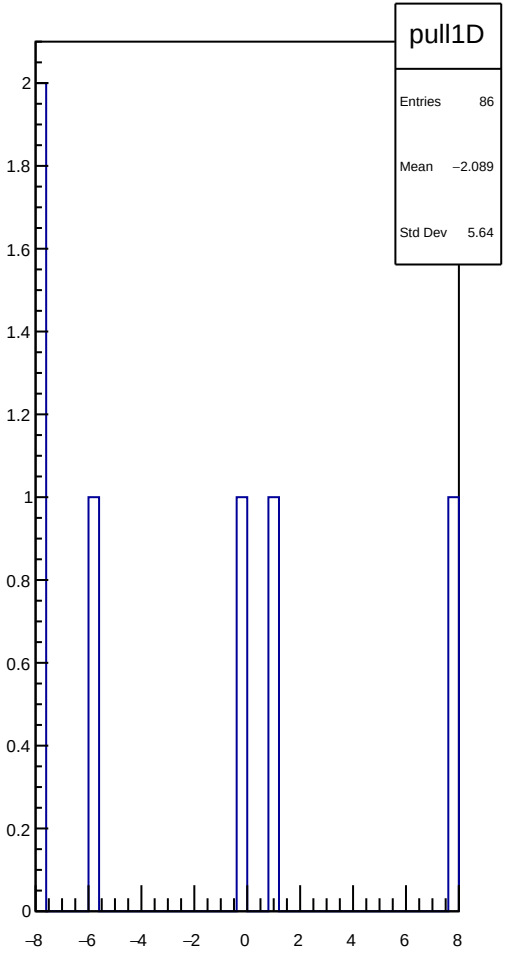

yield_bcm_dg_us_rms vs run
χ2 / ndf 3.539e+04 / 85
p0 0.5654 ± 0.0004493
4
3.5
3
2.5
2
1.5
1
0.5

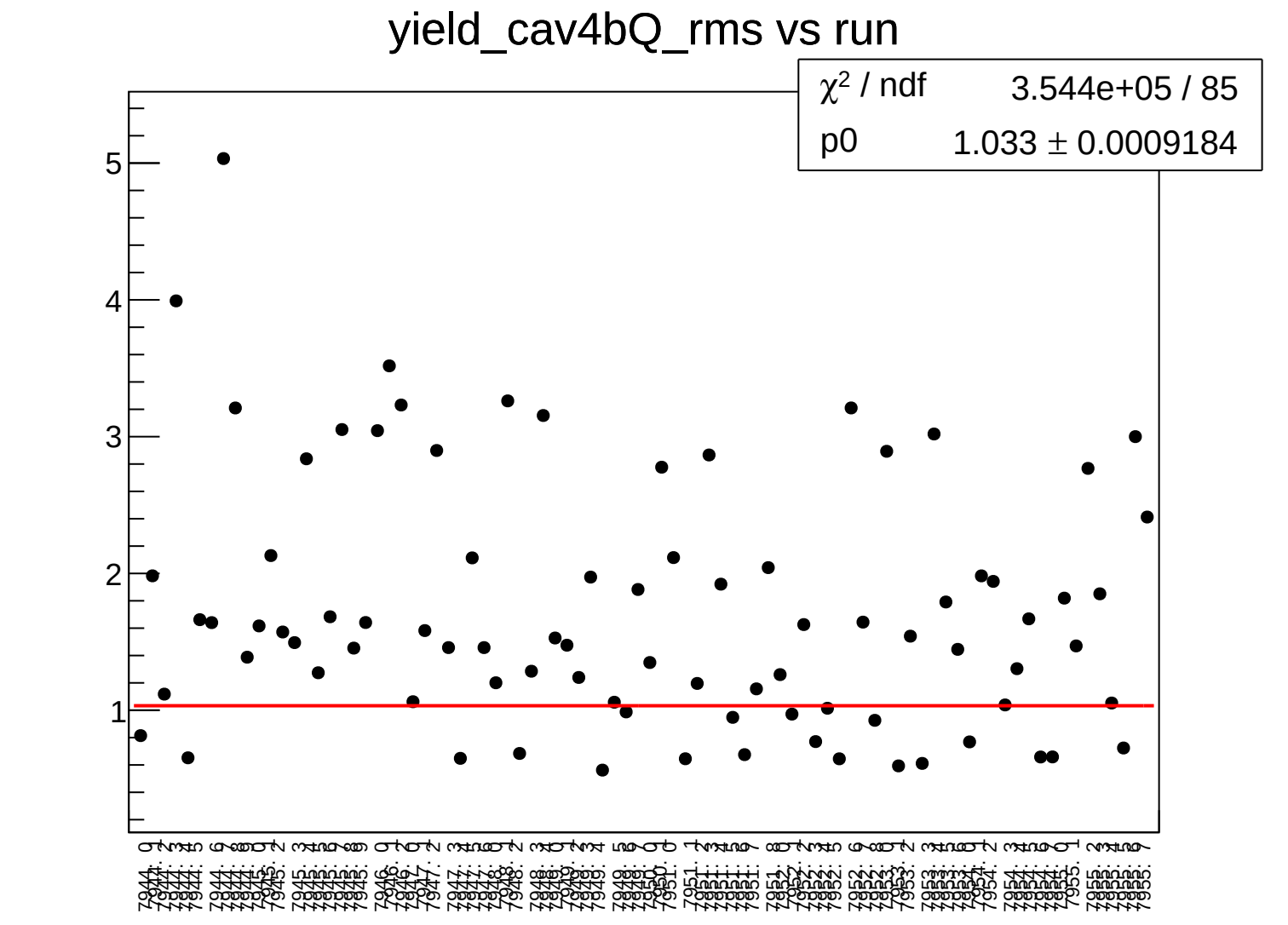

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.01e+06 / 85
p0 145.2 ± 0.0006411
146
145
144
143
142
pull
Entries 86
Mean 185.9
Std Dev 0
200
100
0
−100
−200

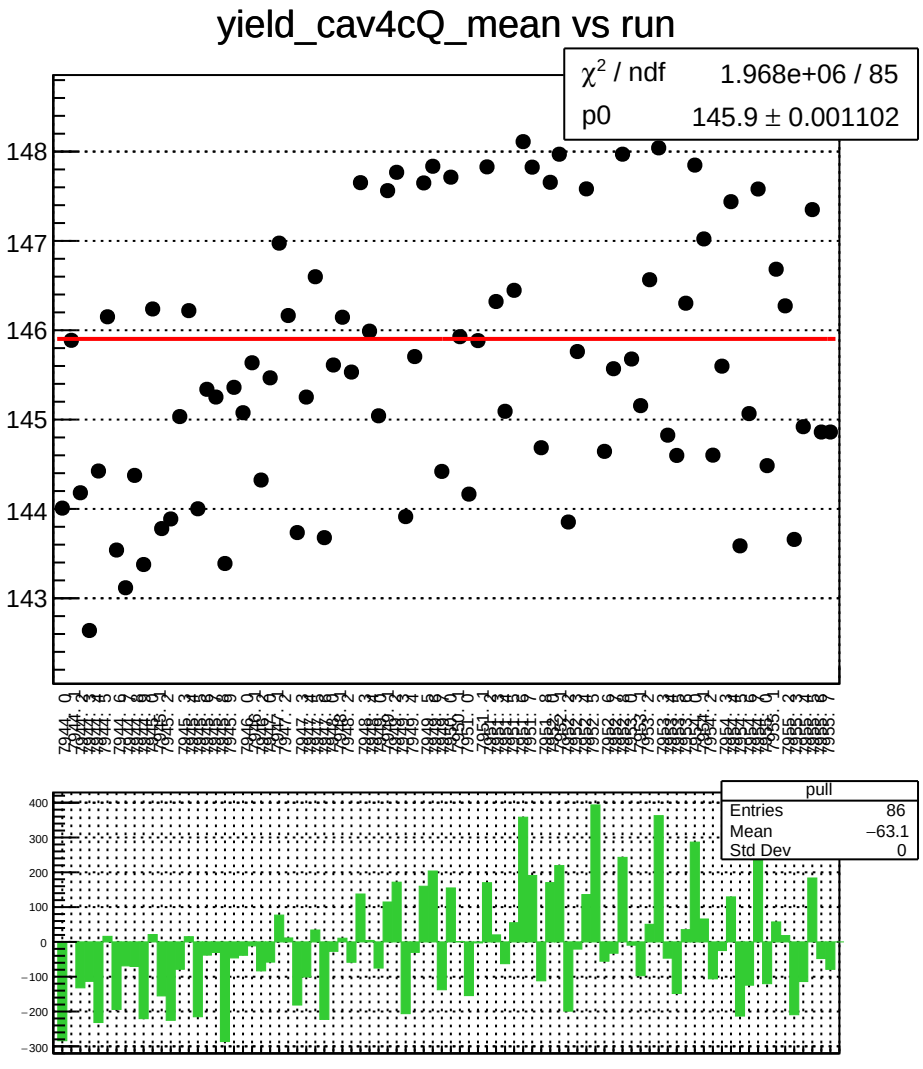

pull1D
Entries 86
Mean −0.3532
Std Dev 4.712
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

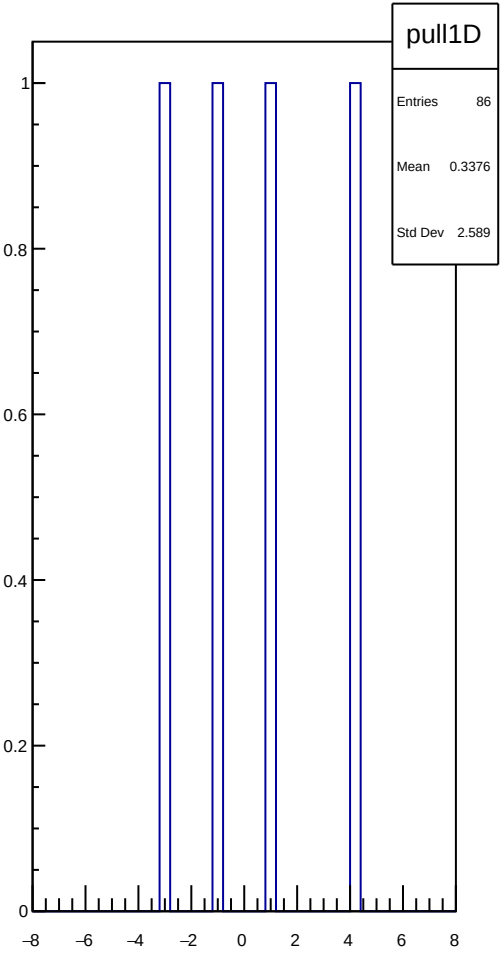

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.677e+04 / 85
p0 0.5703 ± 0.0004533
4
3.5
3
2.5
2
1.5
1
0.5

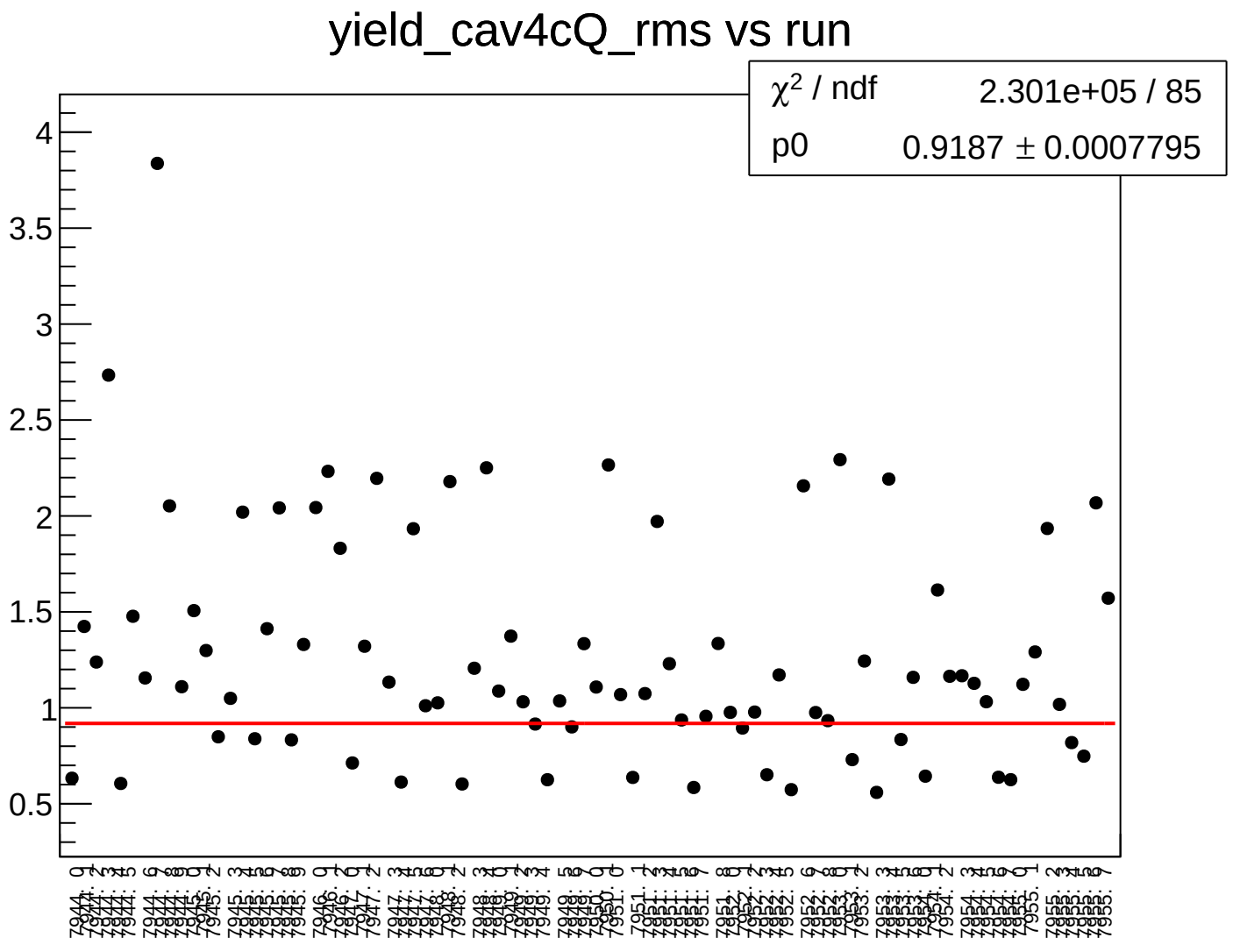

yield_cav4bQ_mean vs run
χ² / ndf 1.663e+06 / 85
p0 143.2 ± 0.001299
148
147
146
145
144
143
142
141
140
pull
Entries 86
Mean −7.711
Std Dev 0
200
100
0
−100
−200
−300
−400

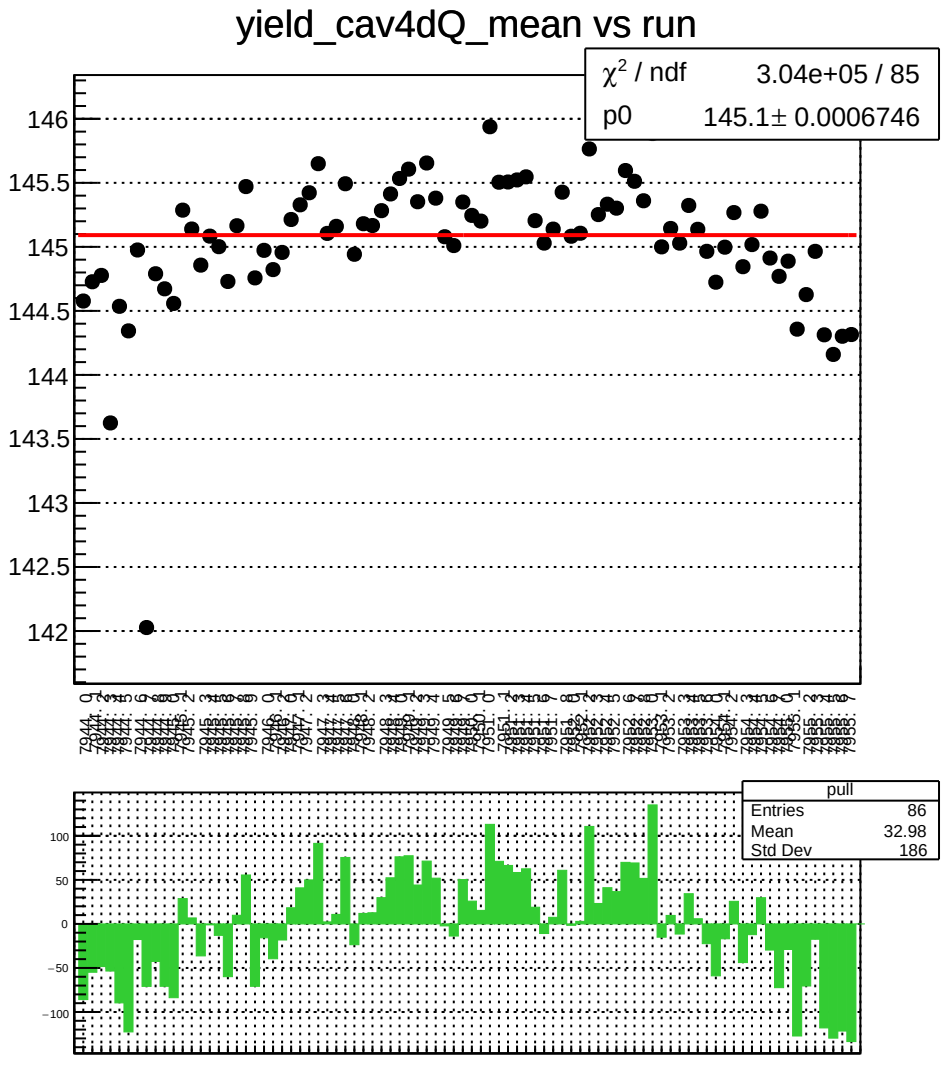

pull1D
Entries 86
Mean −2.089
Std Dev 5.64
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

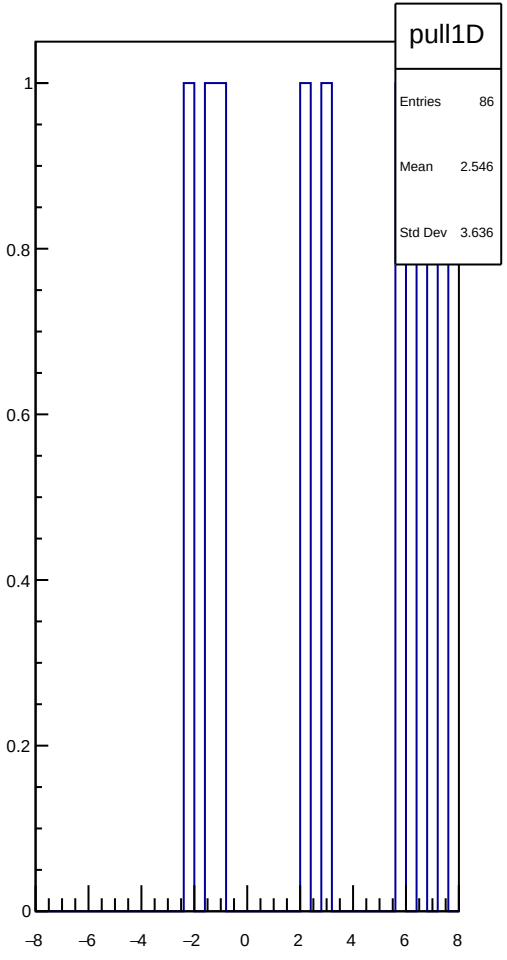

yield_cav4bQ_rms vs run
χ^2 / ndf 3.544e+05 / 85
p0 1.033 ± 0.0009184
5
4
3
2
1

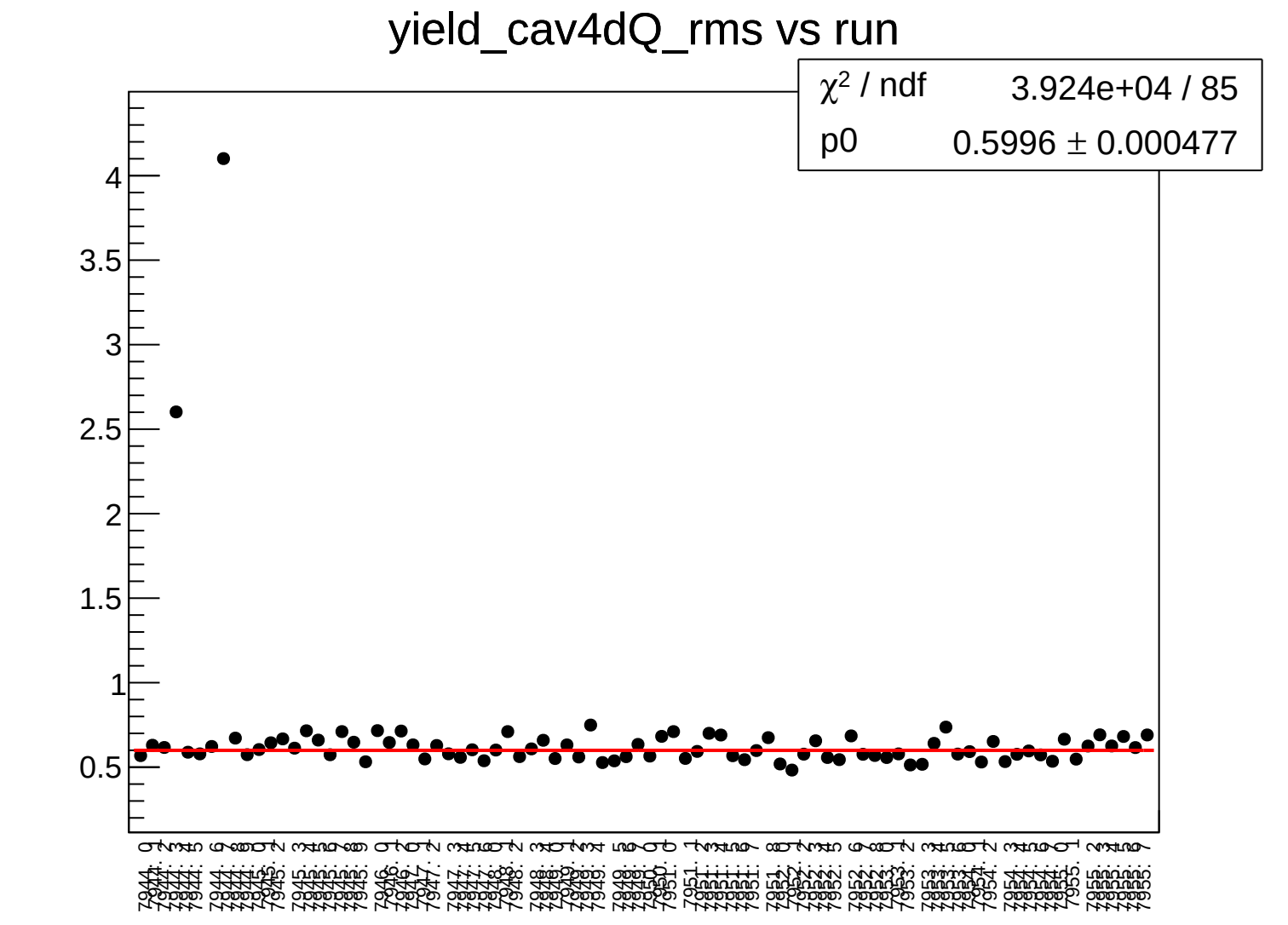

yield_cav4cQ_mean vs run
χ² / ndf 1.968e+06 / 85
p0 145.9 ± 0.001102
148
147
146
145
144
143
pull
Entries 86
Mean −63.1
Std Dev 0
400
300
200
100
0
−100
−200
−300

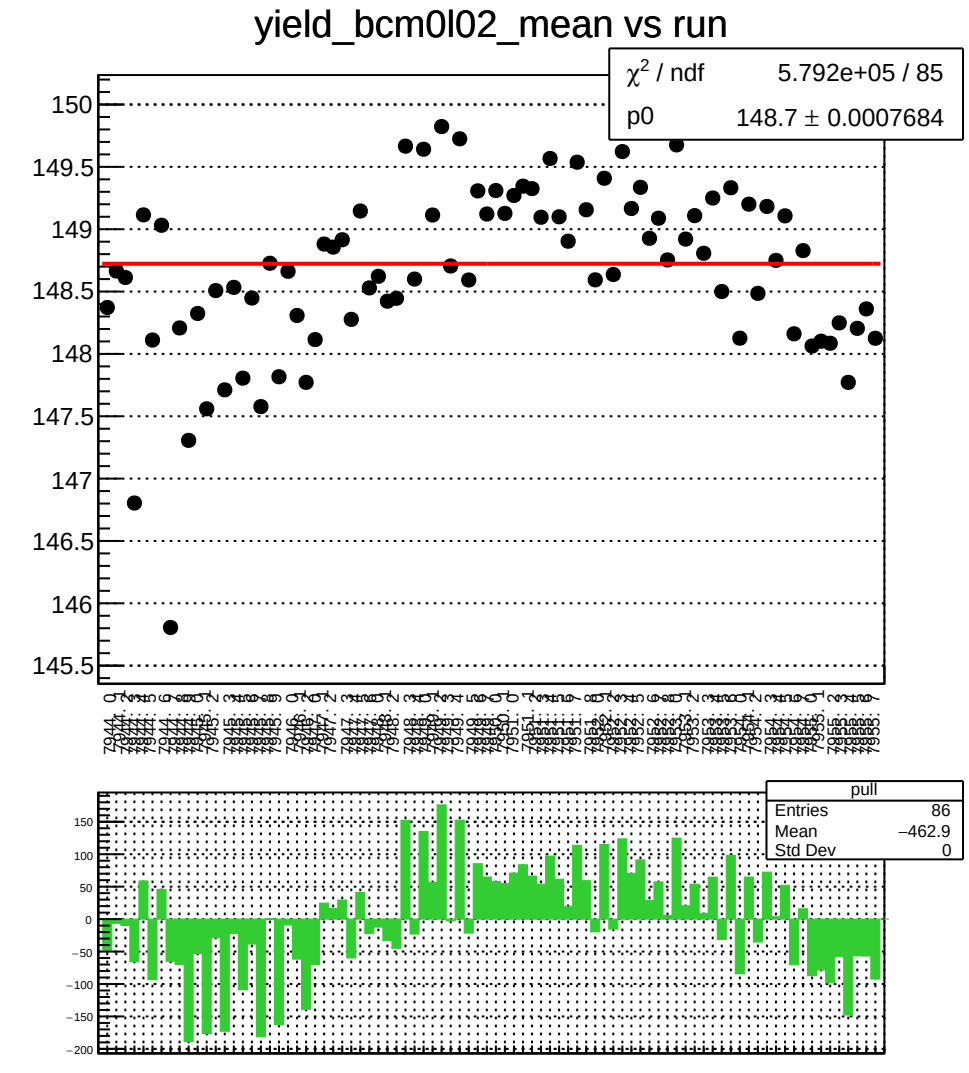

pull1D
Entries 86
Mean 0.3376
Std Dev 2.589
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

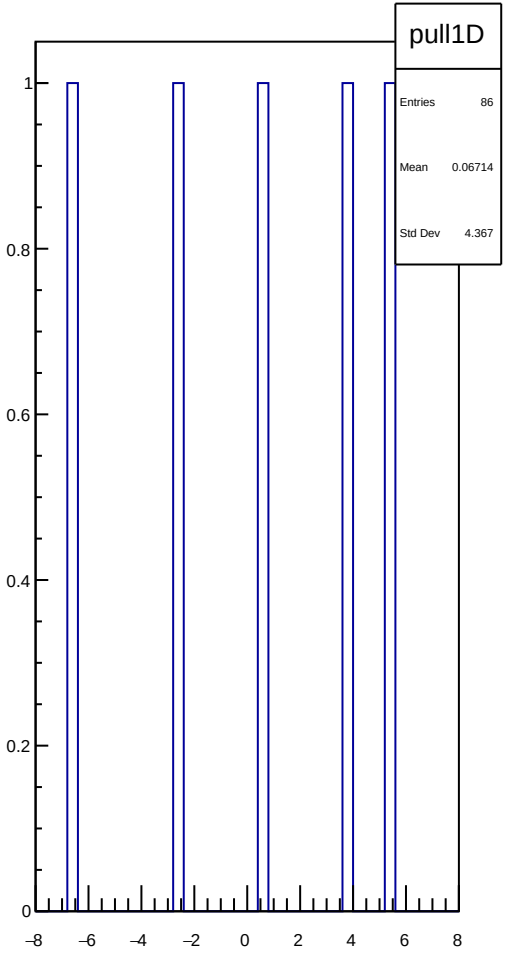

yield_cav4cQ_rms vs run
χ² / ndf 2.301e+05 / 85
p0 0.9187 ± 0.0007795
4
3.5
3
2.5
2
1.5
1
0.5

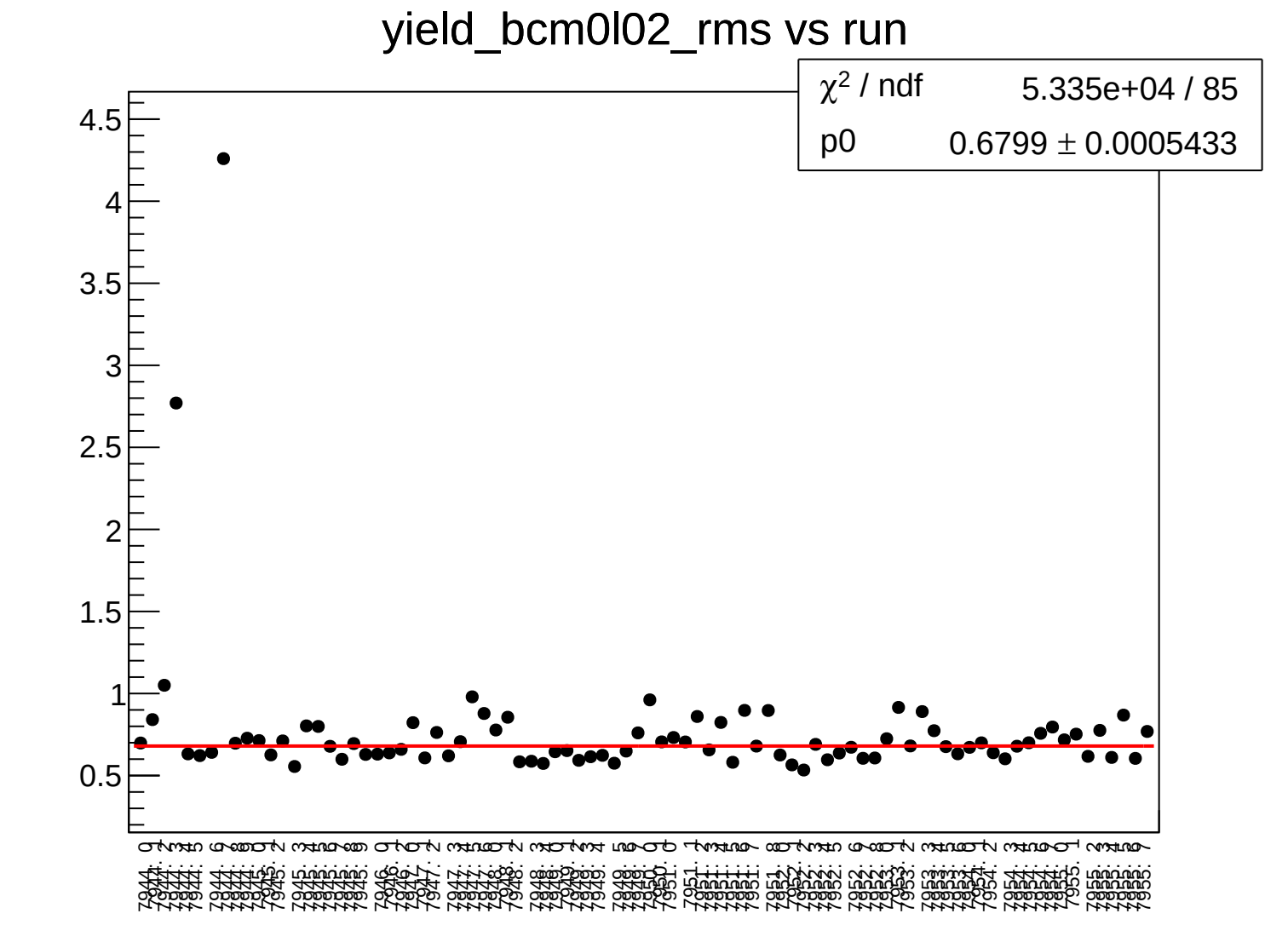

yield_cav4dQ_mean vs run
χ² / ndf 3.04e+05 / 85
p0 145.1± 0.0006746
146
145.5
145
144.5
144
143.5
143
142.5
142
pull
Entries 86
Mean 32.98
Std Dev 186
100
50
0
−50
−100

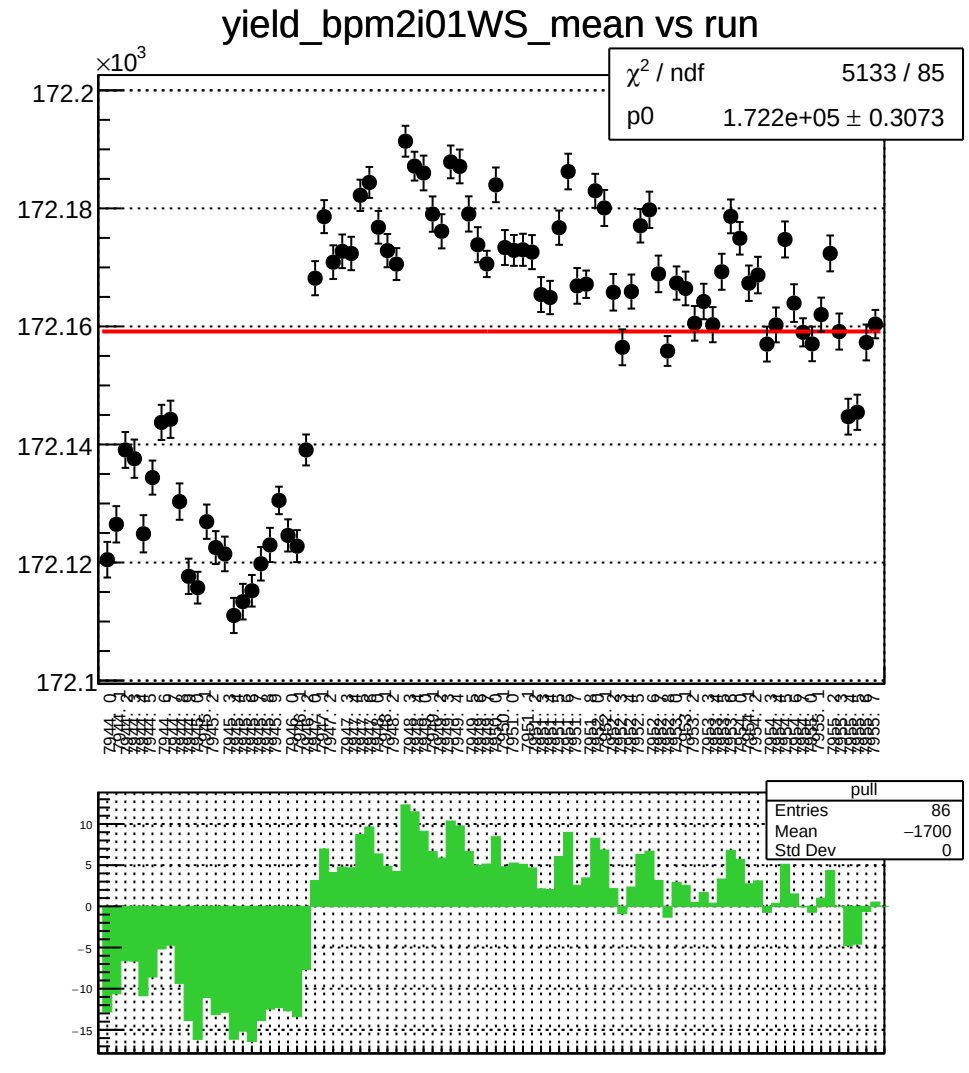

pull1D
Entries 86
Mean 2.546
Std Dev 3.636
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

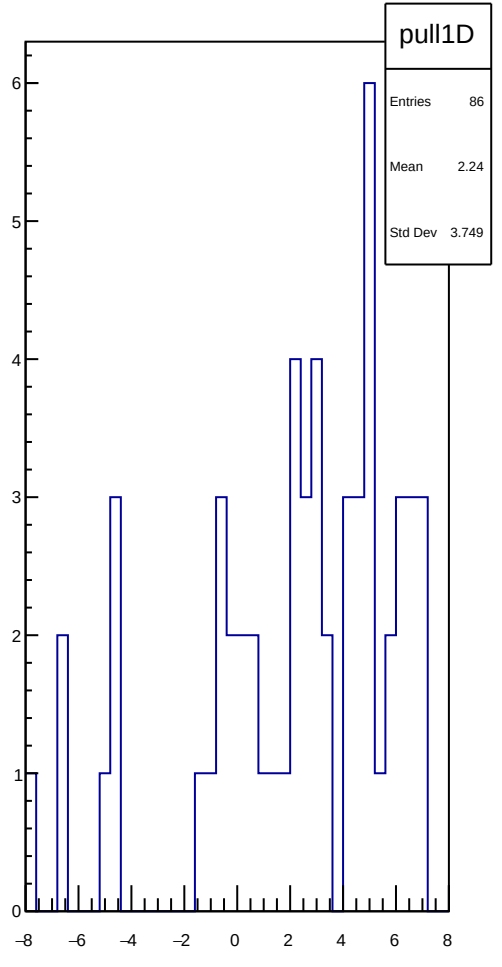

yield_cav4dQ_rms vs run
χ² / ndf 3.924e+04 / 85
p0 0.5996 ± 0.000477
4
3.5
3
2.5
2
1.5
1
0.5

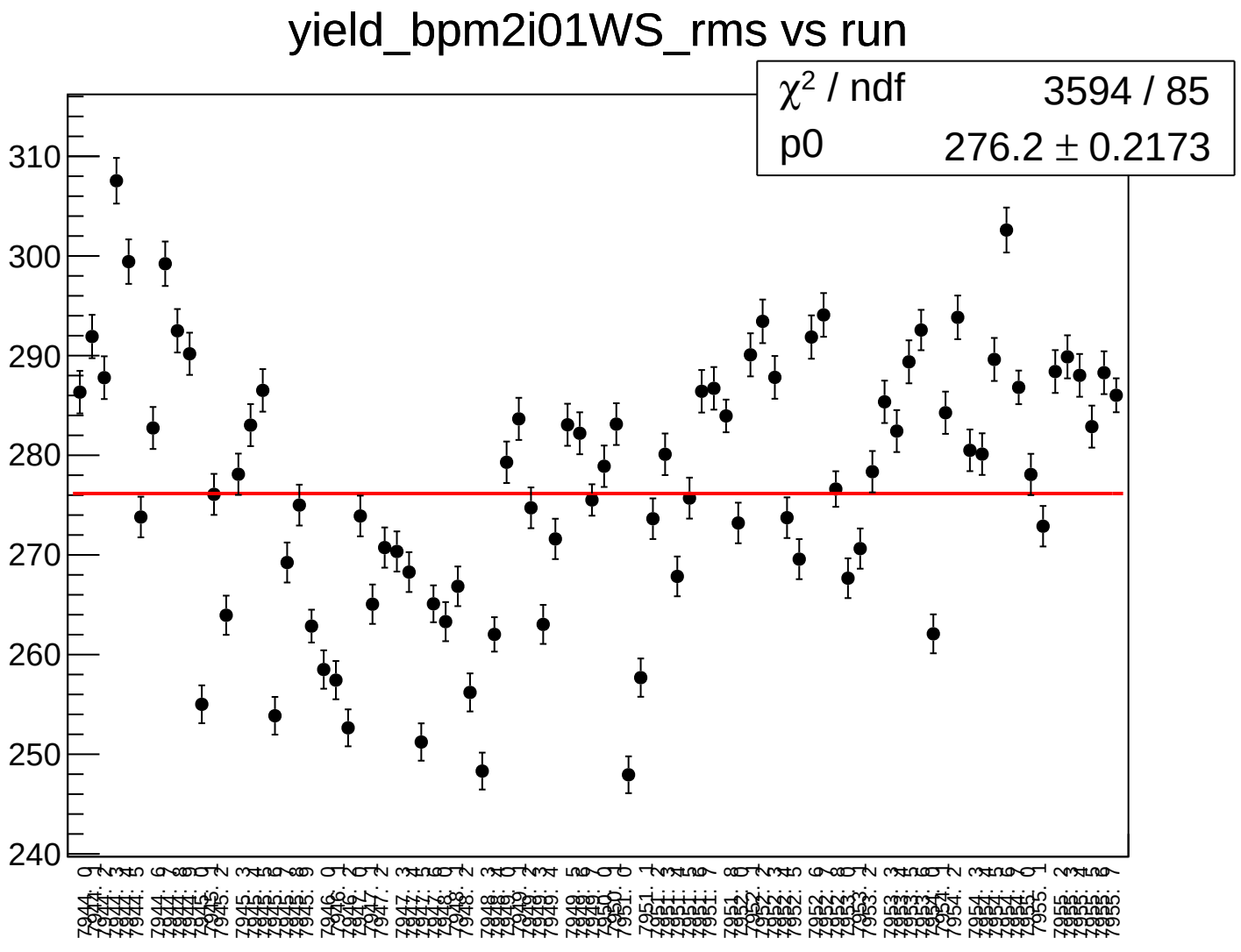

yield_bcm0l02_mean vs run
χ² / ndf 5.792e+05 / 85
p0 148.7 ± 0.0007684
150
149.5
149
148.5
148
147.5
147
146.5
146
145.5
pull
Entries 86
Mean −462.9
Std Dev 0
150
100
50
0
−50
−100
−150
−200

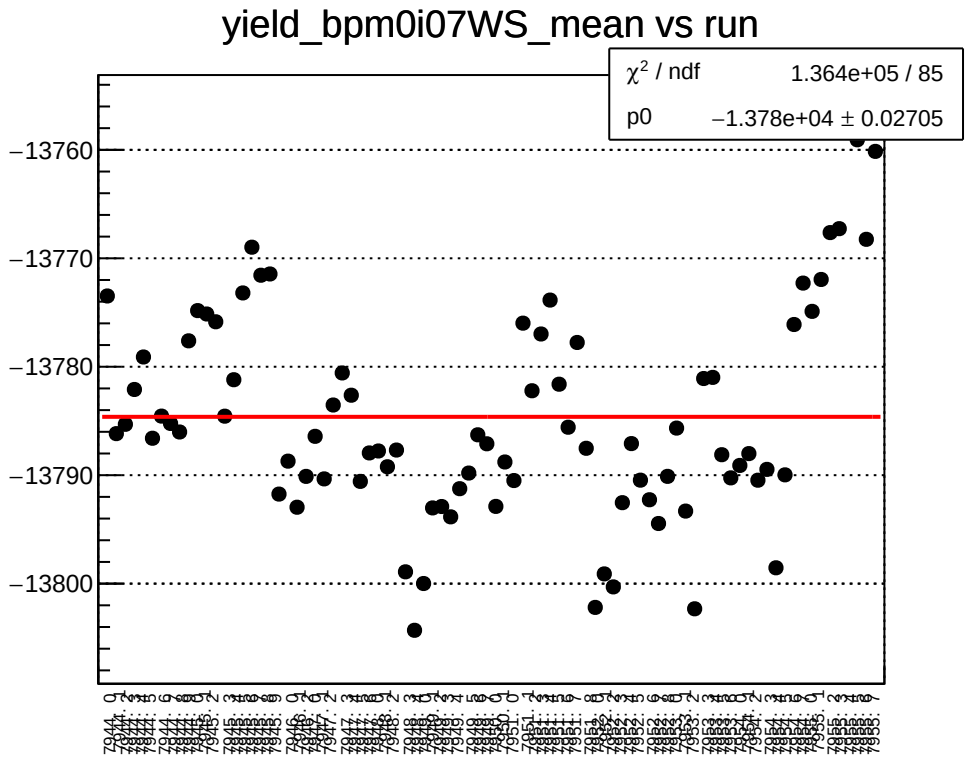

pull1D
Entries 86
Mean 0.06714
Std Dev 4.367
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

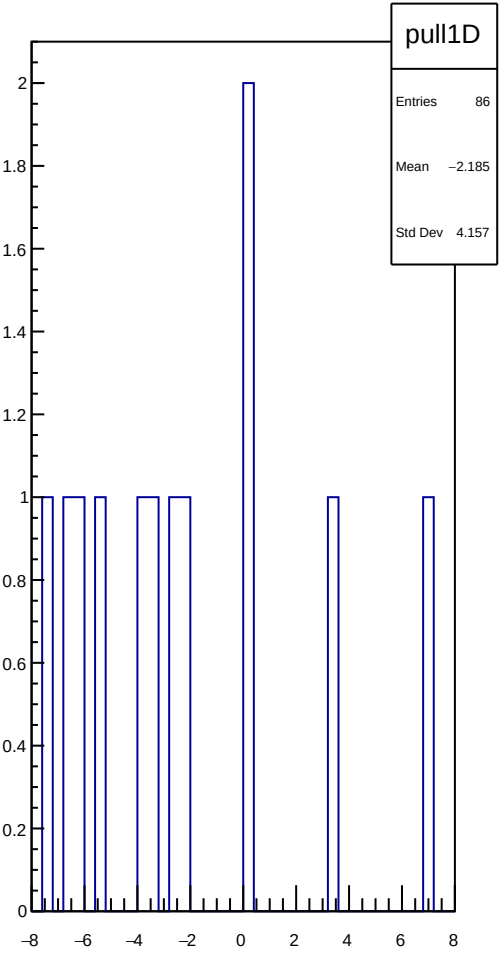

yield_bcm0l02_rms vs run
χ² / ndf 5.335e+04 / 85
p0 0.6799 ± 0.0005433
4.5
4
3.5
3
2.5
2
1.5
1
0.5

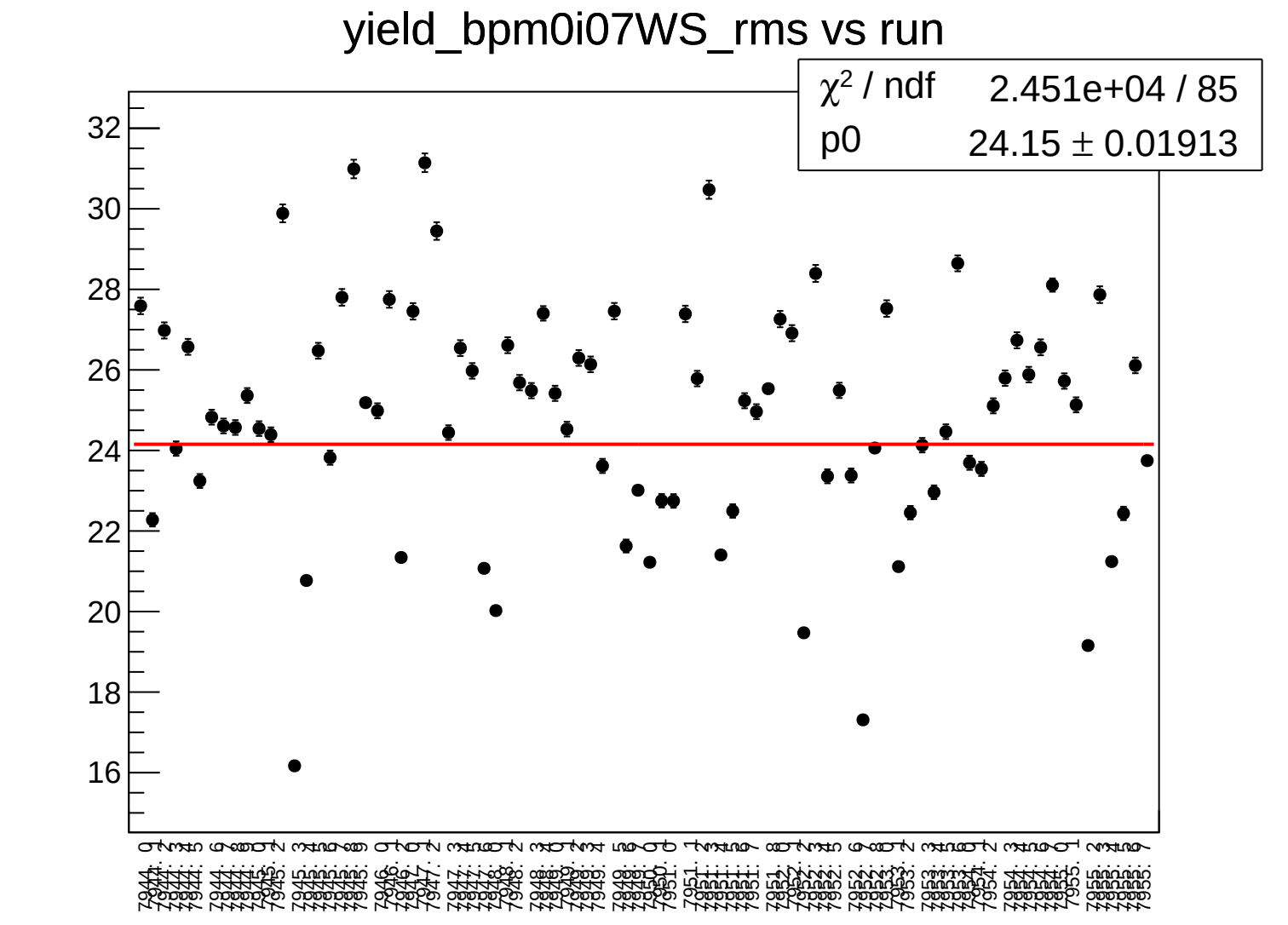

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5133 / 85
p0 1.722e+05 ± 0.3073
172.2
172.18
172.16
172.14
172.12
172.1
pull
Entries 86
Mean −1700
Std Dev 0
10
5
0
−5
−10
−15

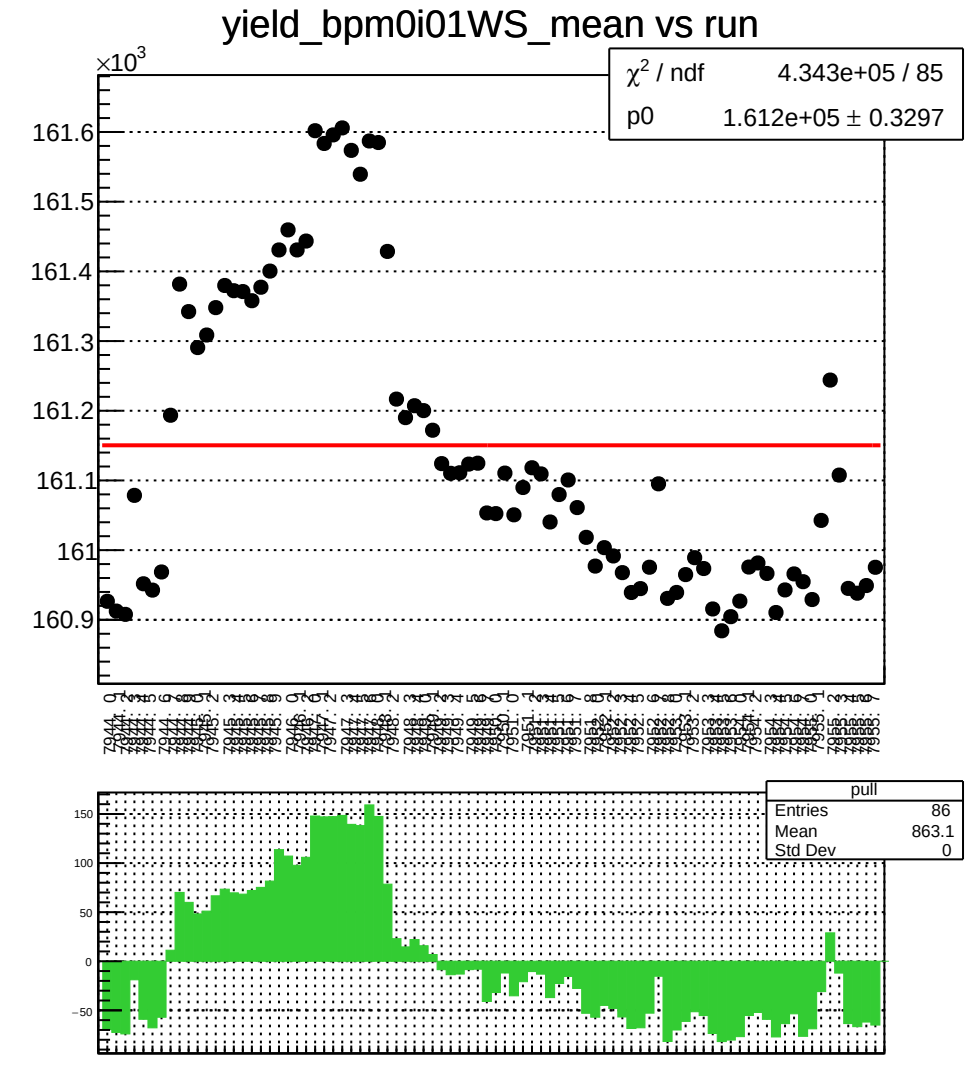

pull1D
Entries 86
Mean 2.24
Std Dev 3.749
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

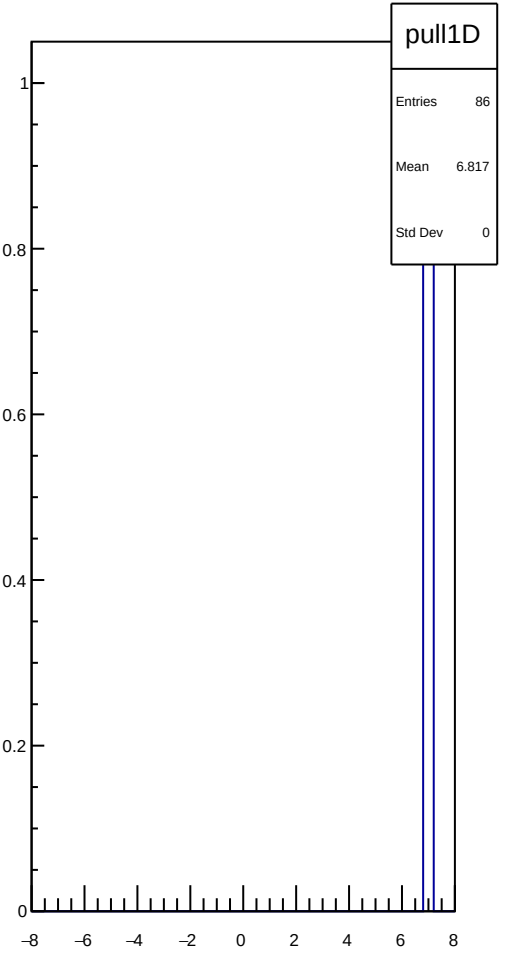

yield_bpm2i01WS_rms vs run
χ² / ndf 3594 / 85
p0 276.2 ± 0.2173
310
300
290
280
270
260
250
240

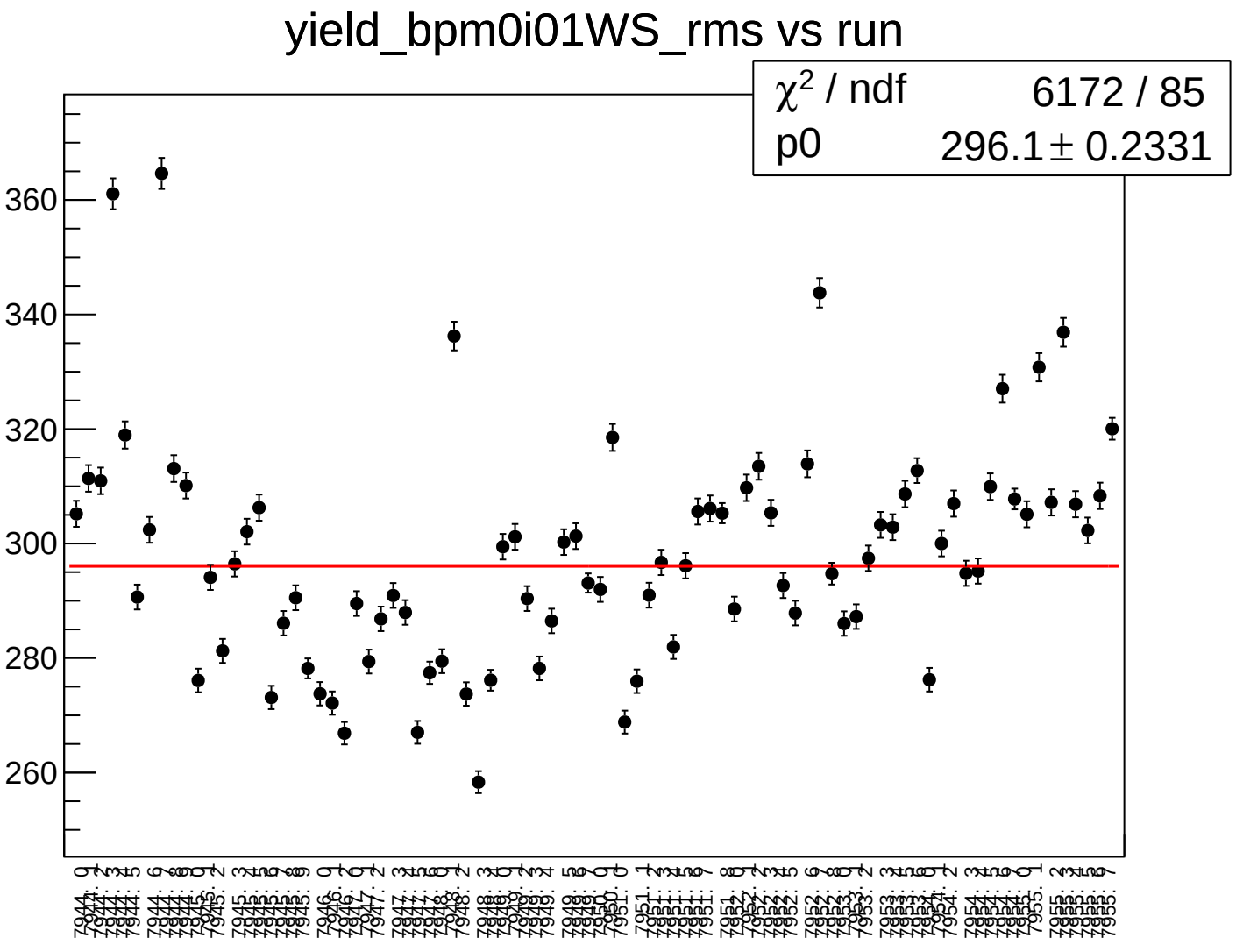

yield_bpm0i07WS_mean vs run
χ² / ndf 1.364e+05 / 85
p0 −1.378e+04 ± 0.02705
−13760
−13770
−13780
−13790
−13800
pull
Entries 86
Mean 6116
Std Dev 0

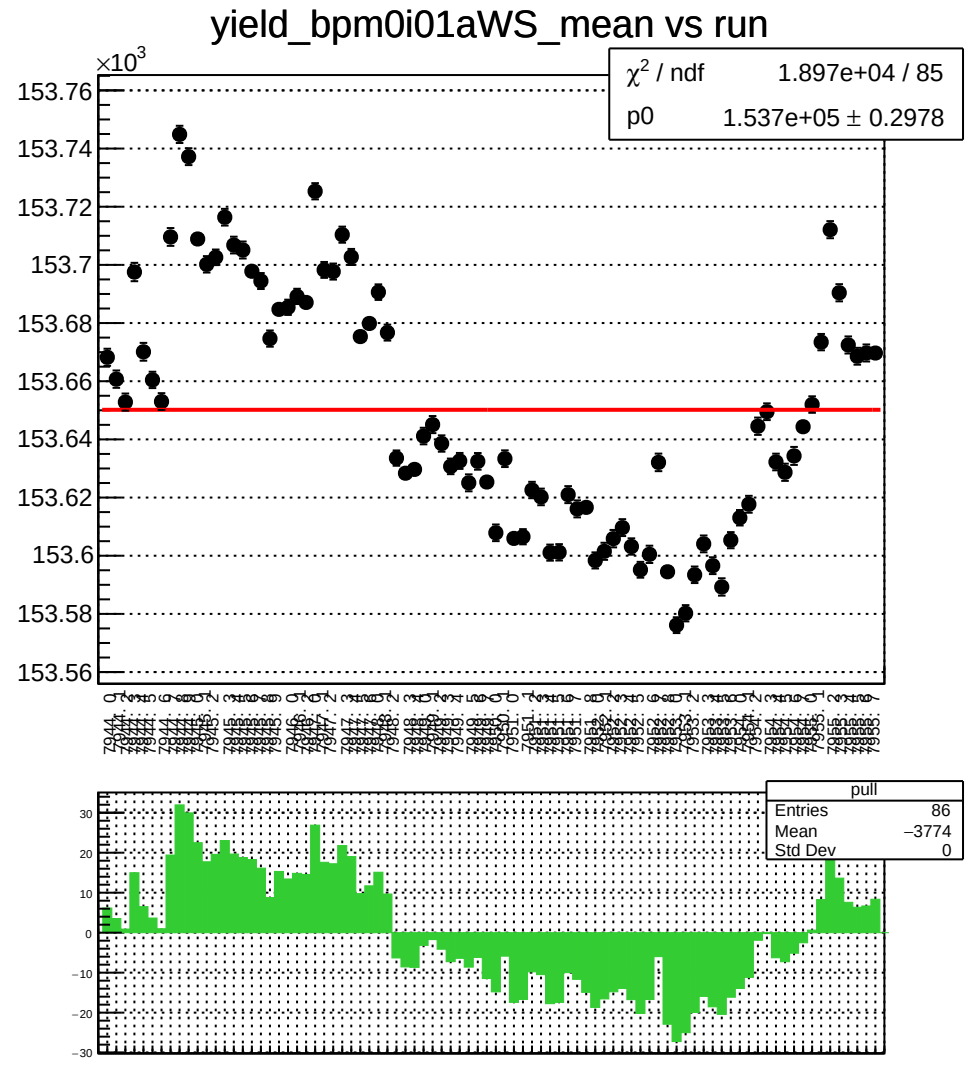

pull1D
Entries 86
Mean −2.185
Std Dev 4.157

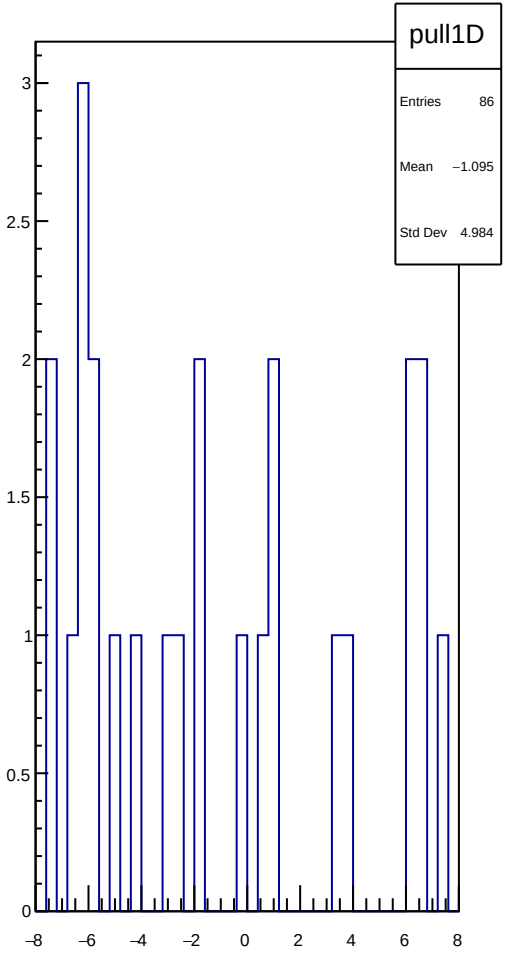

yield_bpm0i07WS_rms vs run
χ² / ndf 2.451e+04 / 85
p0 24.15 ± 0.01913
32
30
28
26
24
22
20
18
16

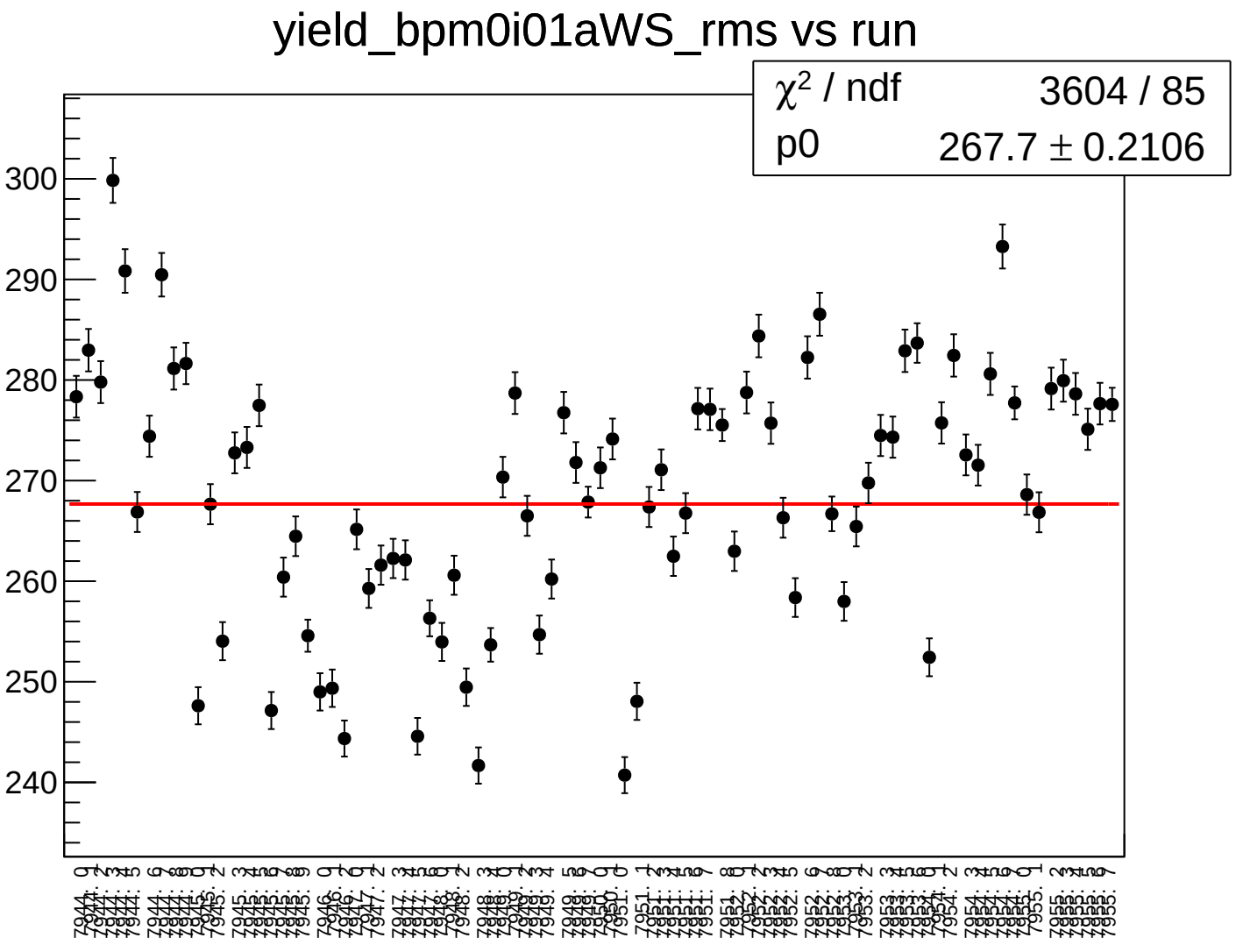

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 4.343e+05 / 85
p0 1.612e+05 ± 0.3297
161.6
161.5
161.4
161.3
161.2
161.1
161
160.9
pull
Entries 86
Mean 863.1
Std Dev 0
150
100
50
0
−50

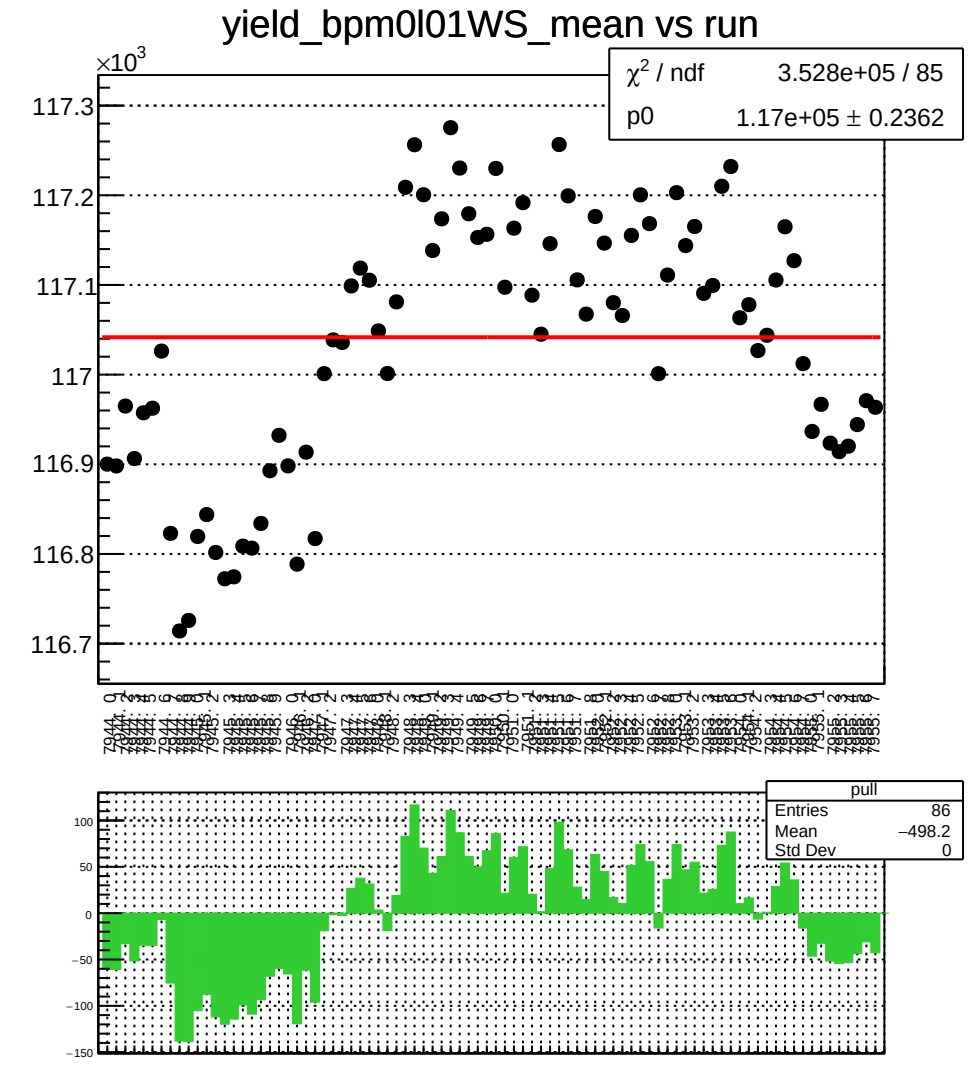

pull1D
Entries 86
Mean 6.817
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

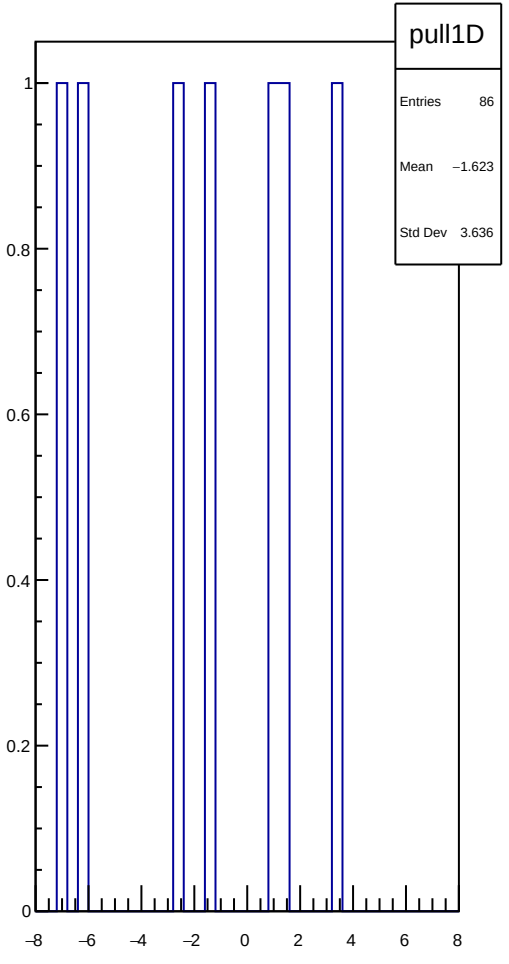

yield_bpm0i01WS_rms vs run
χ² / ndf 6172 / 85
p0 296.1 ± 0.2331
360
340
320
300
280
260

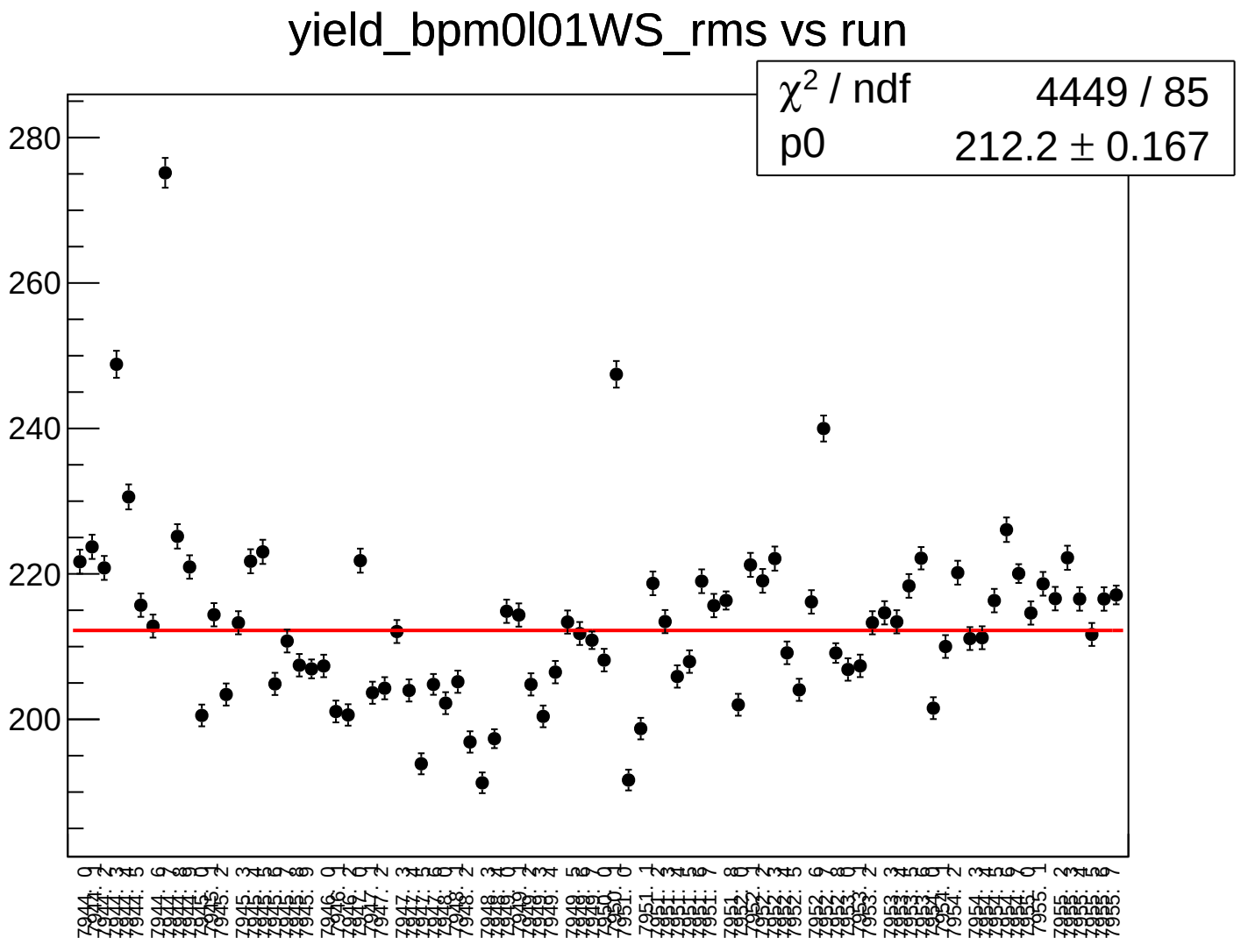

yield_bpm0i01aWS_mean vs run
χ² / ndf 1.897e+04 / 85
p0 1.537e+05 ± 0.2978
×10³
153.76
153.74
153.72
153.7
153.68
153.66
153.64
153.62
153.6
153.58
153.56
pull
Entries 86
Mean −3774
Std Dev 0
30
20
10
0
−10
−20
−30

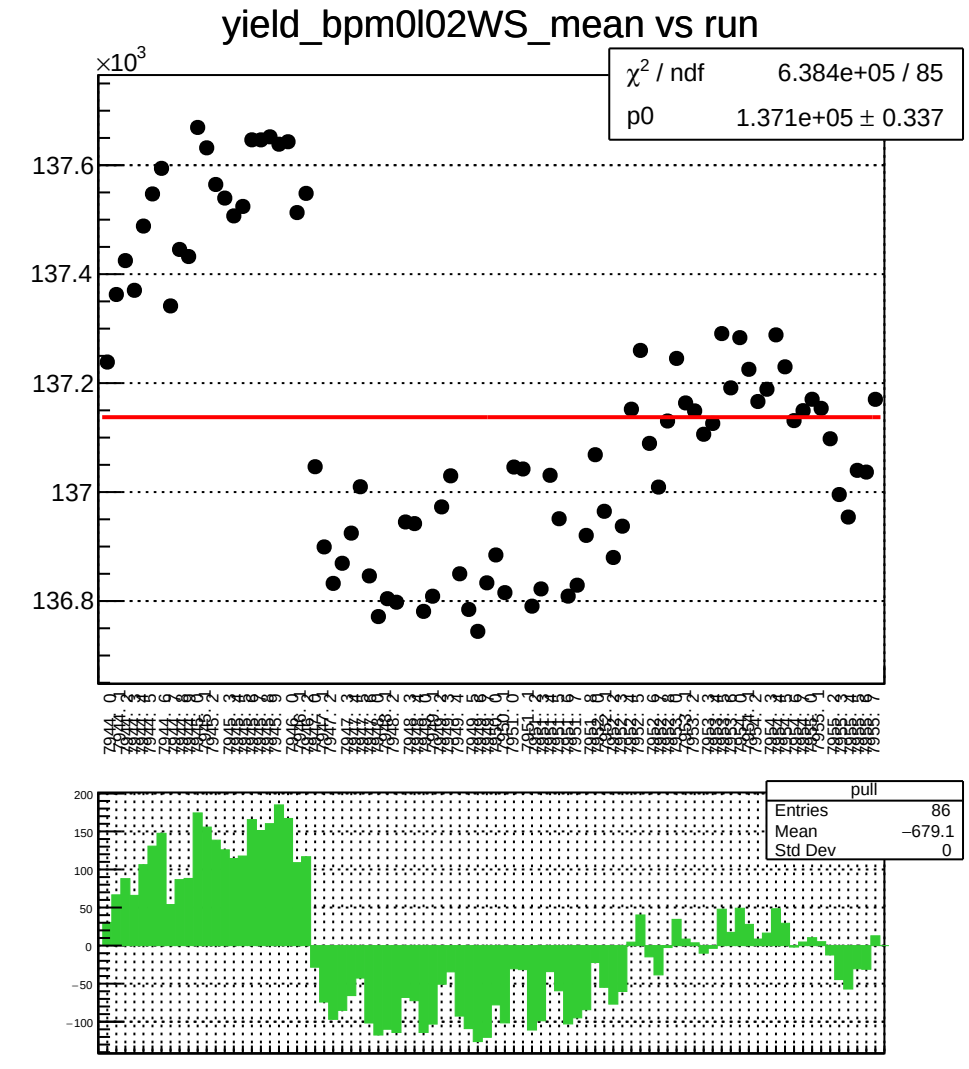

pull1D
Entries 86
Mean −1.095
Std Dev 4.984
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

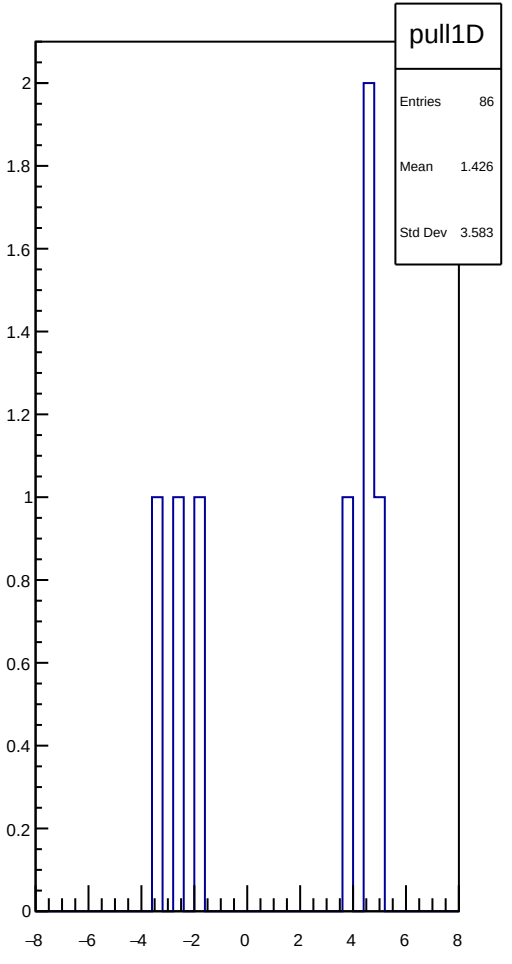

yield_bpm0i01aWS_rms vs run
χ² / ndf 3604 / 85
p0 267.7 ± 0.2106
300
290
280
270
260
250
240

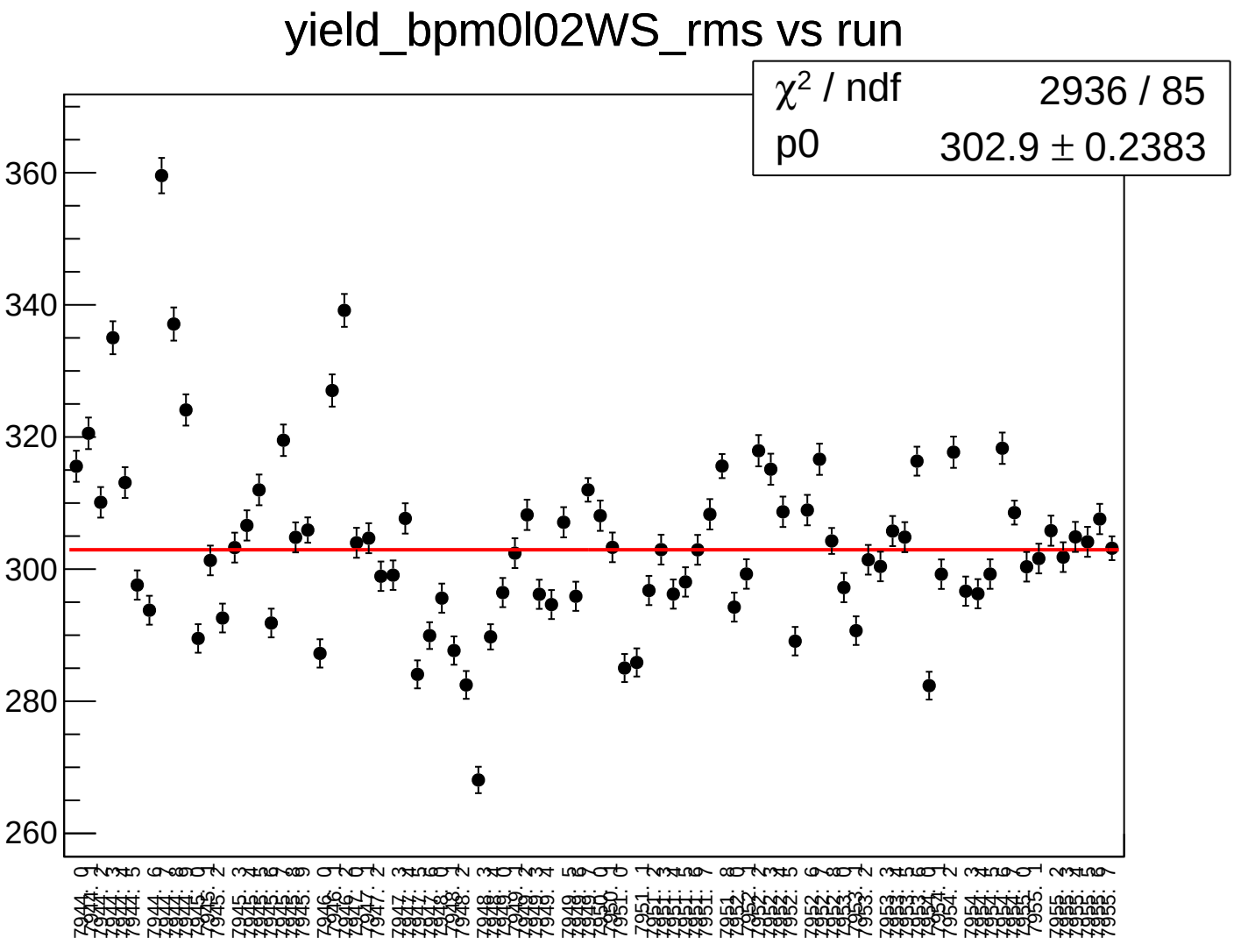

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 3.528e+05 / 85
p0 1.17e+05 ± 0.2362
117.3
117.2
117.1
117
116.9
116.8
116.7
pull
Entries 86
Mean −498.2
Std Dev 0
100
50
0
−50
−100
−150

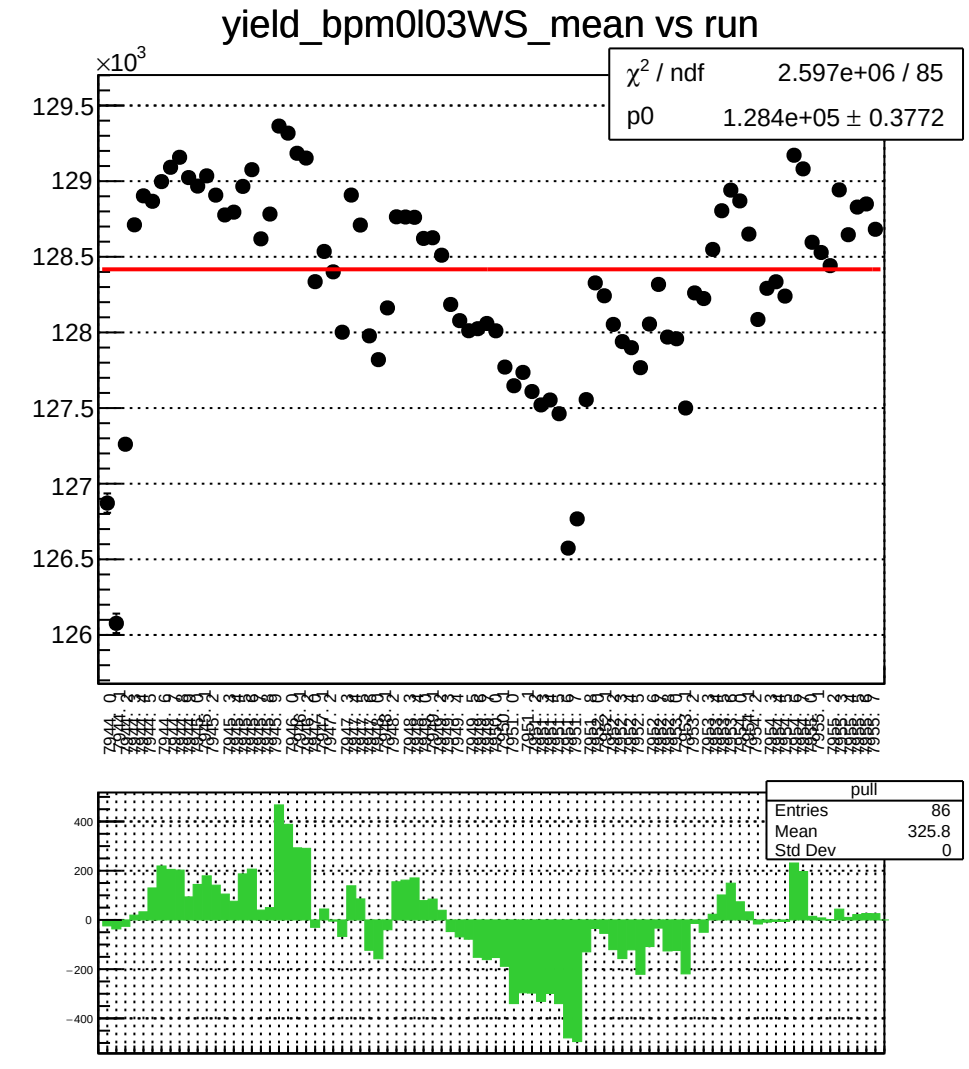

pull1D
Entries 86
Mean −1.623
Std Dev 3.636
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

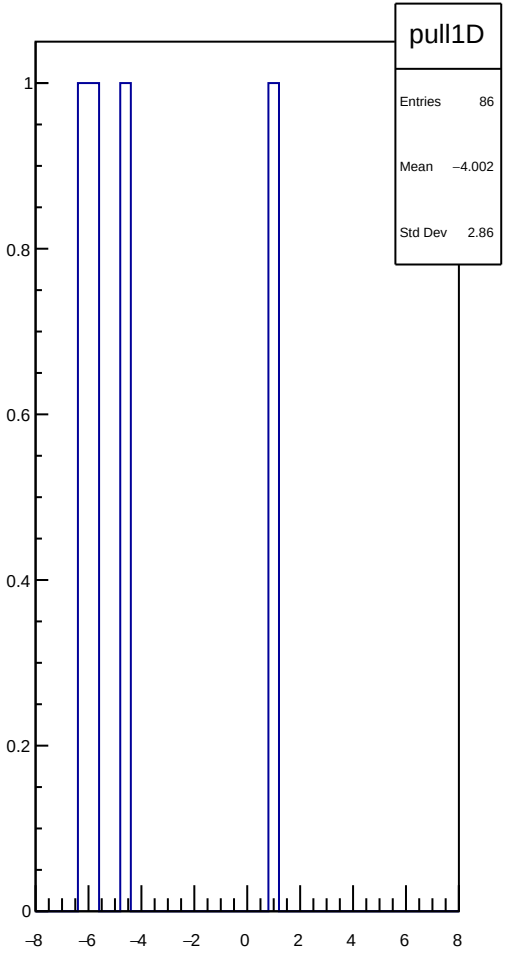

yield_bpm0l01WS_rms vs run
χ² / ndf 4449 / 85
p0 212.2 ± 0.167
280
260
240
220
200

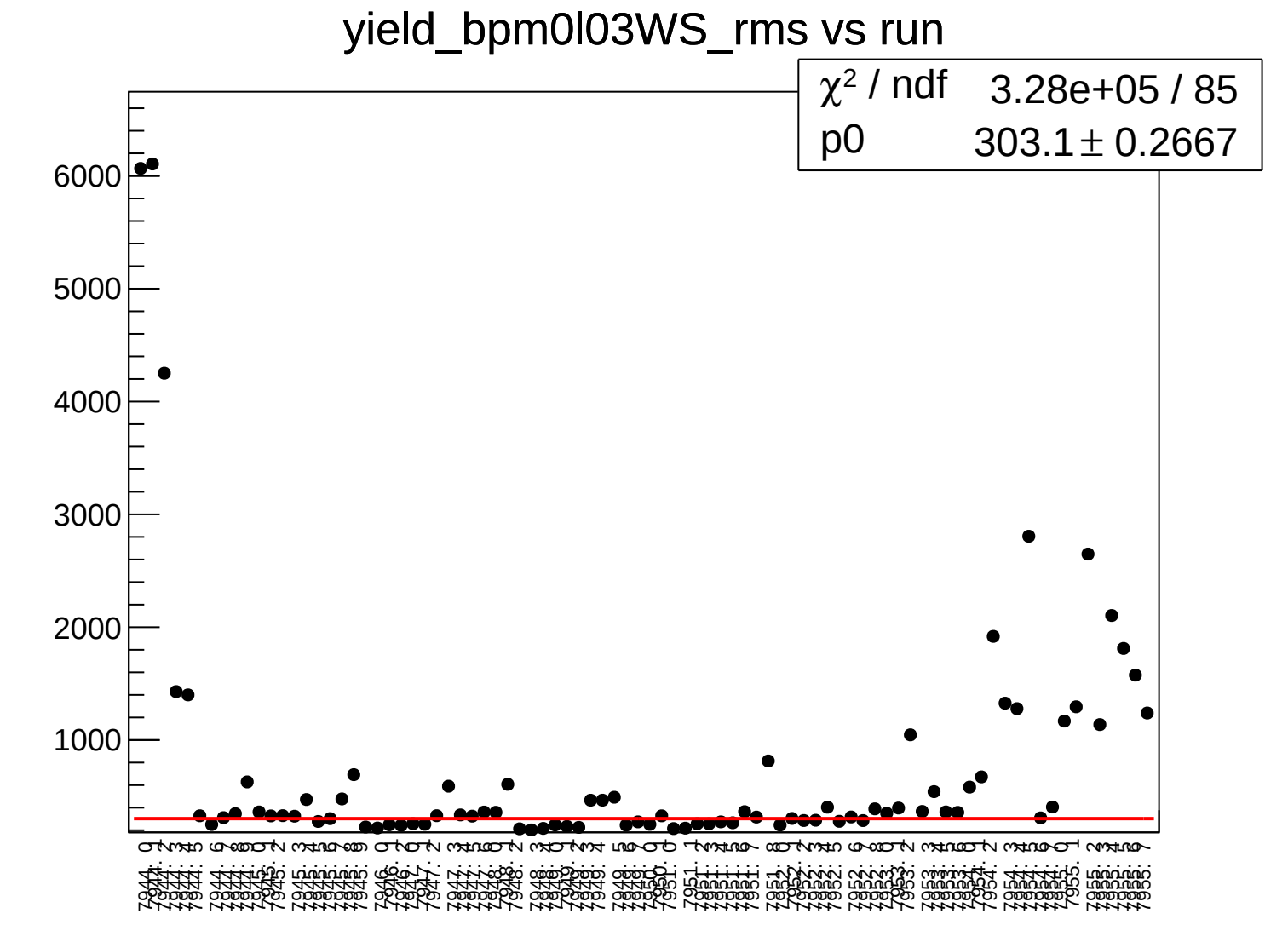

yield_bpm0l02WS_mean vs run
×10^3
χ^2 / ndf 6.384e+05 / 85
p0 1.371e+05 ± 0.337
137.6
137.4
137.2
137
136.8
pull
Entries 86
Mean −679.1
Std Dev 0
200
150
100
50
0
−50
−100

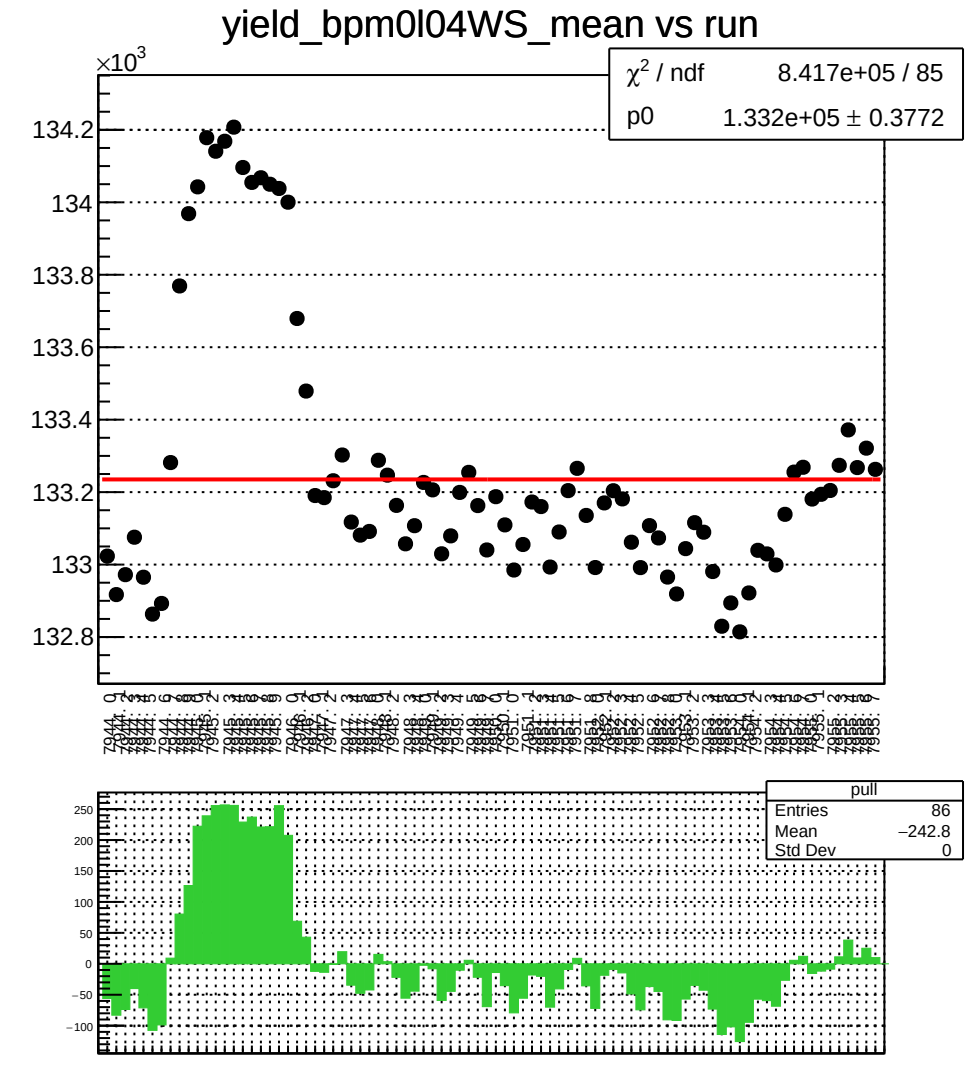

pull1D
Entries 86
Mean 1.426
Std Dev 3.583
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

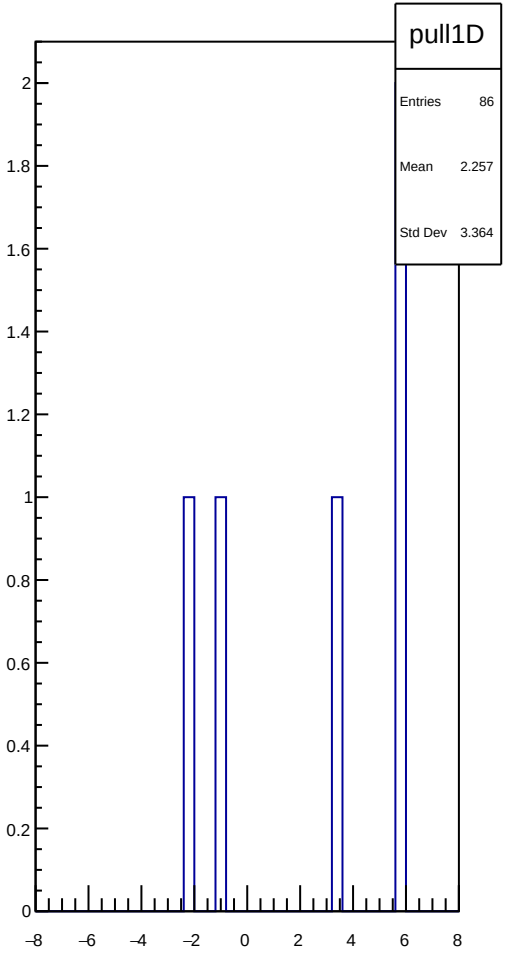

yield_bpm0l02WS_rms vs run
χ² / ndf 2936 / 85
p0 302.9 ± 0.2383
360
340
320
300
280
260

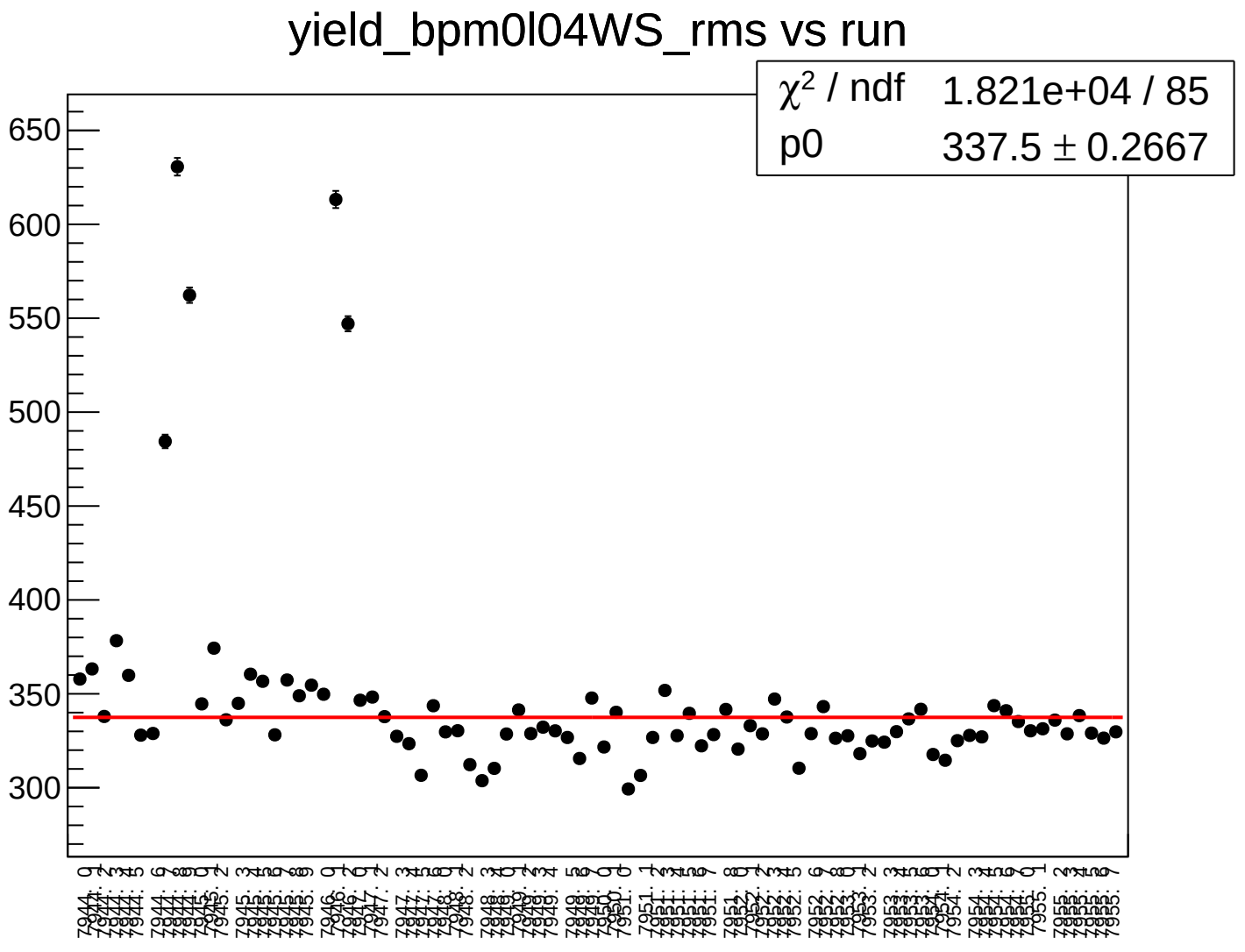

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 2.597e+06 / 85
p0 1.284e+05 ± 0.3772
129.5
129
128.5
128
127.5
127
126.5
126
pull
Entries 86
Mean 325.8
Std Dev 0
400
200
0
−200
−400

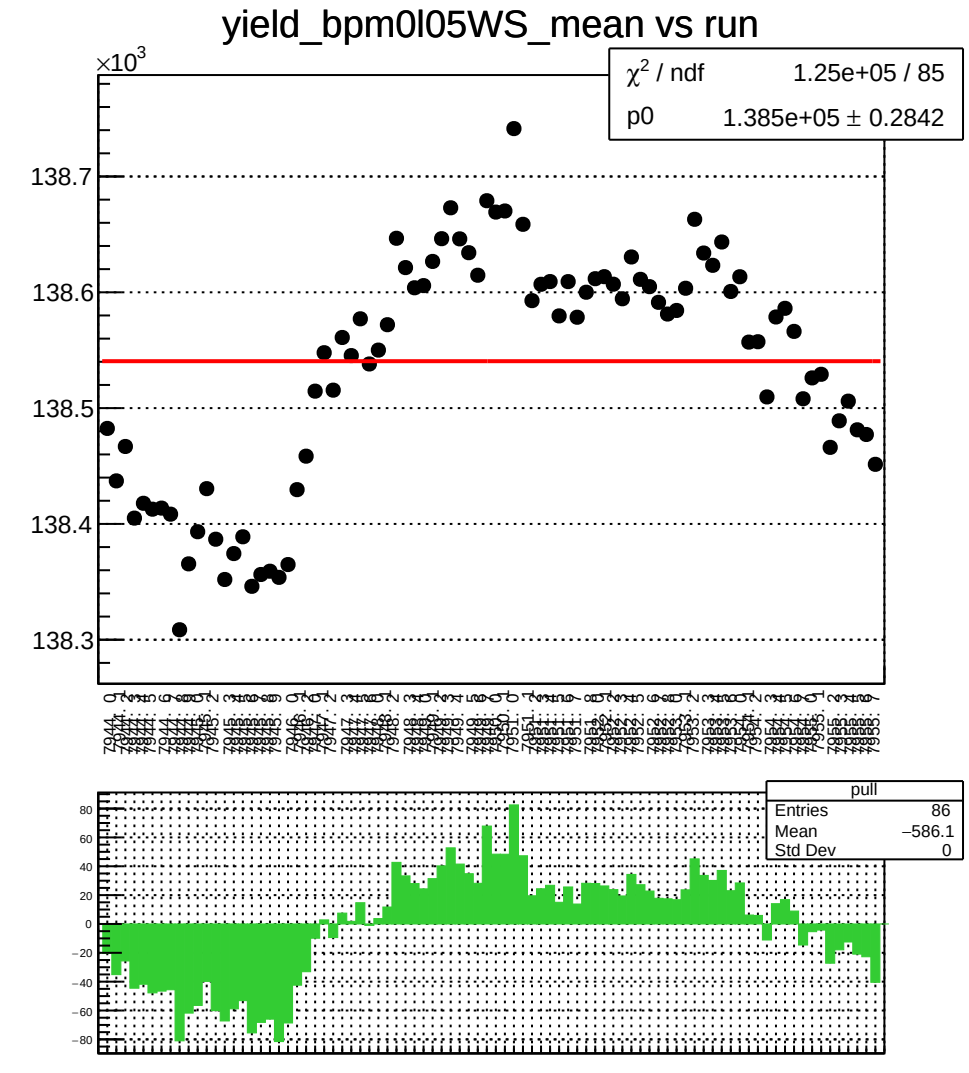

pull1D
Entries 86
Mean −4.002
Std Dev 2.86
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

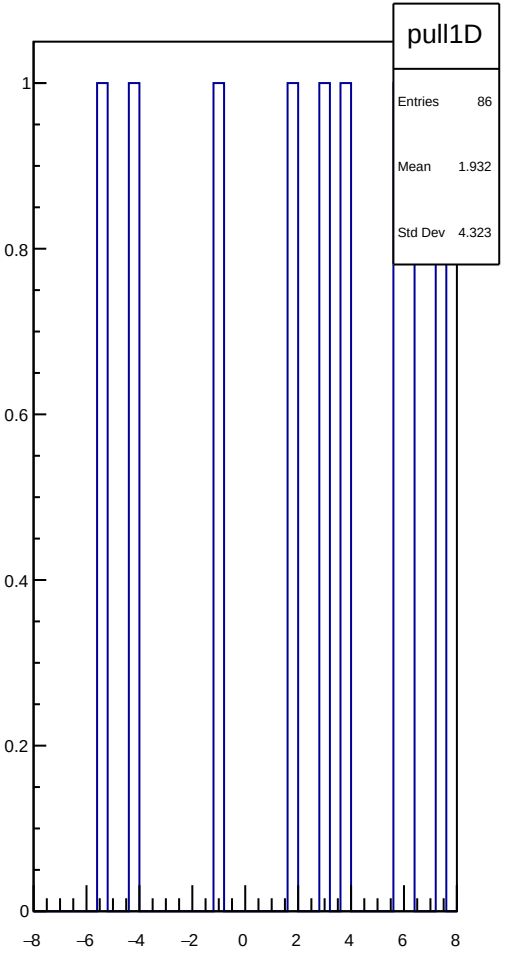

yield_bpm0l03WS_rms vs run
χ² / ndf 3.28e+05 / 85
p0 303.1 ± 0.2667
6000
5000
4000
3000
2000
1000

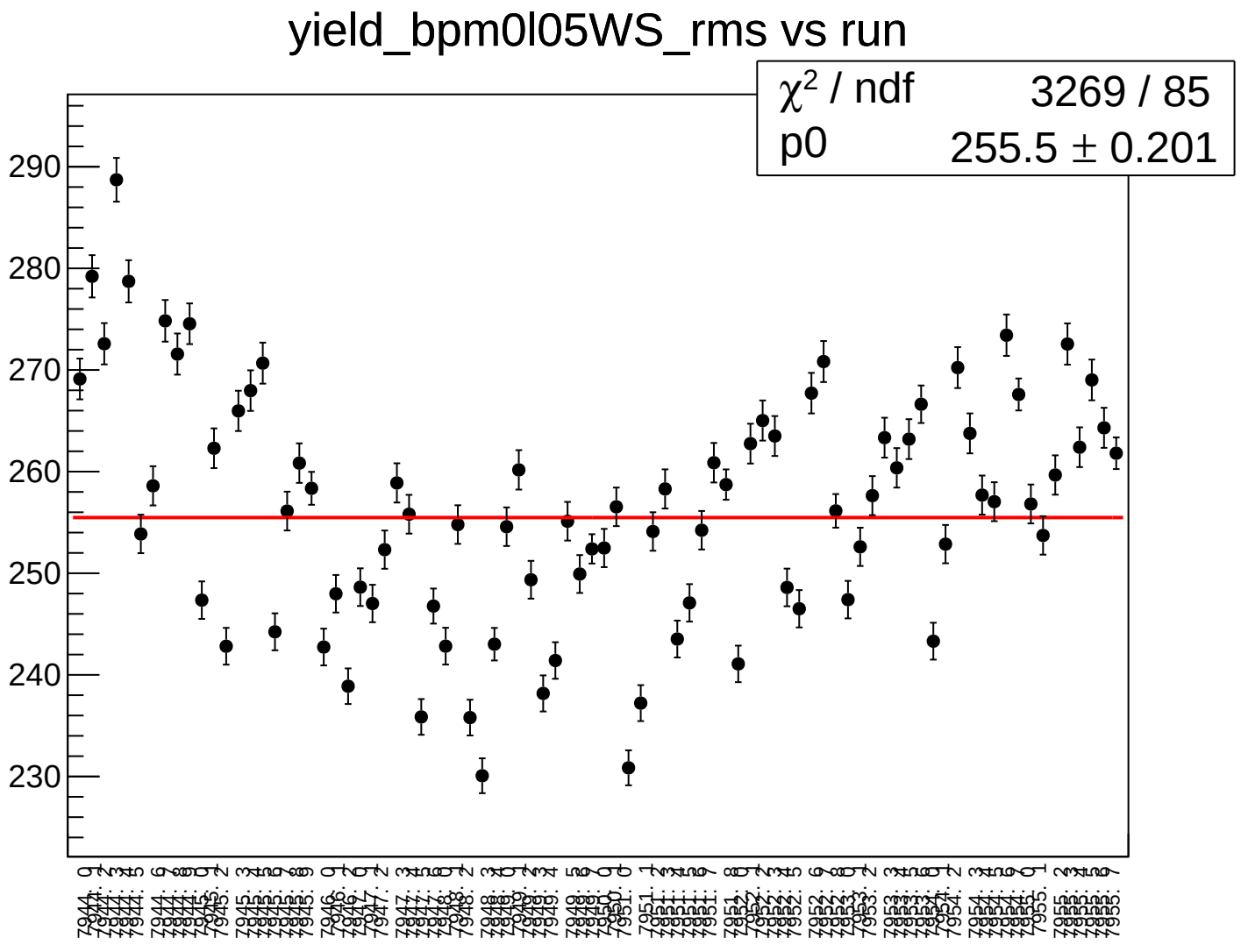

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 8.417e+05 / 85
p0 1.332e+05 ± 0.3772
134.2
134
133.8
133.6
133.4
133.2
133
132.8
pull
Entries 86
Mean −242.8
Std Dev 0
250
200
150
100
50
0
−50
−100

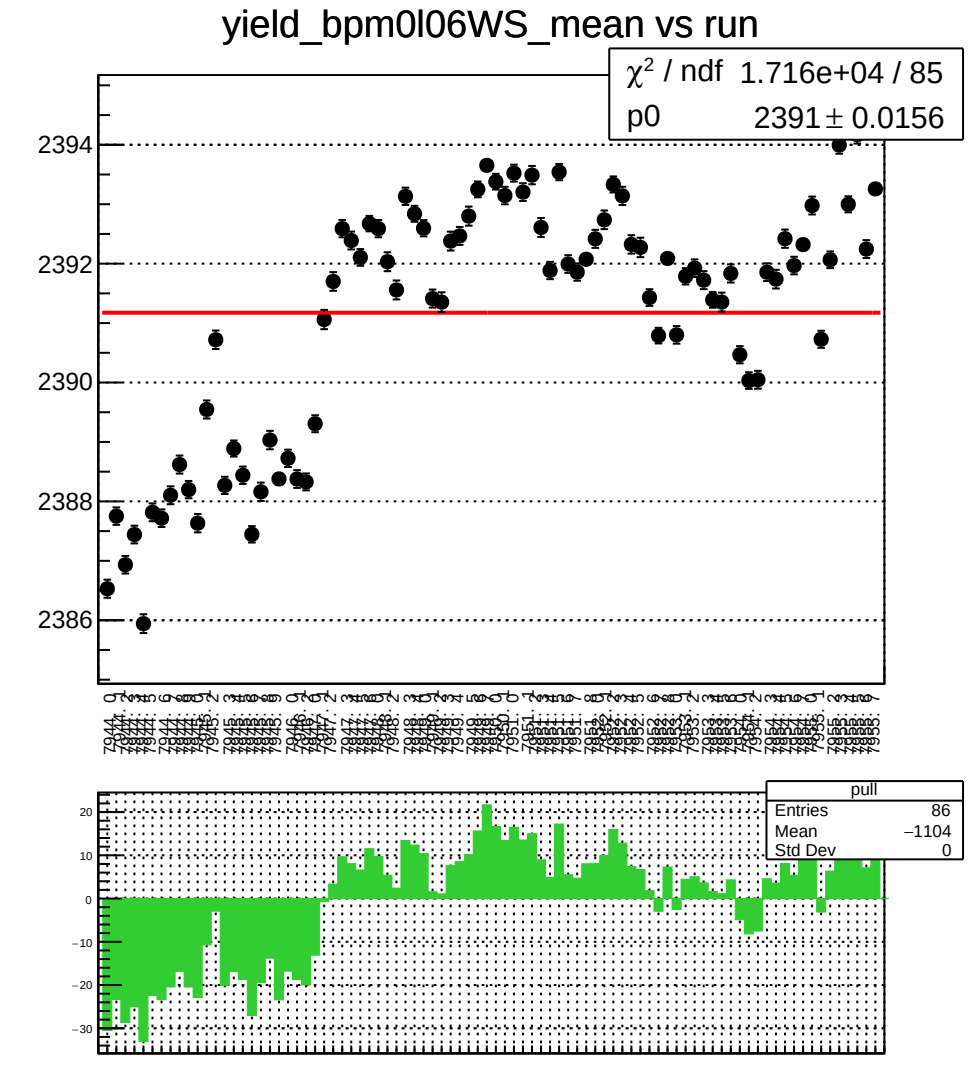

pull1D
Entries 86
Mean 2.257
Std Dev 3.364
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

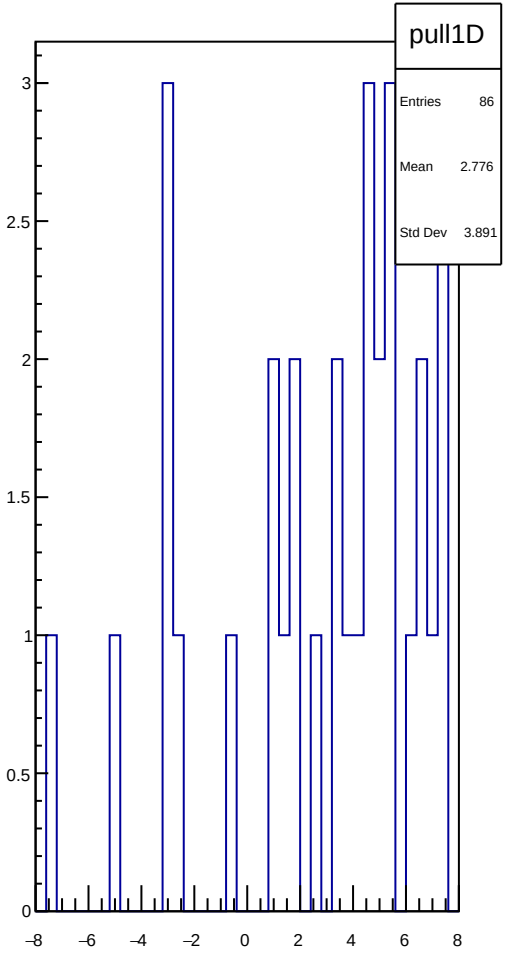

yield_bpm0l04WS_rms vs run
χ² / ndf 1.821e+04 / 85
p0 337.5 ± 0.2667
650
600
550
500
450
400
350
300

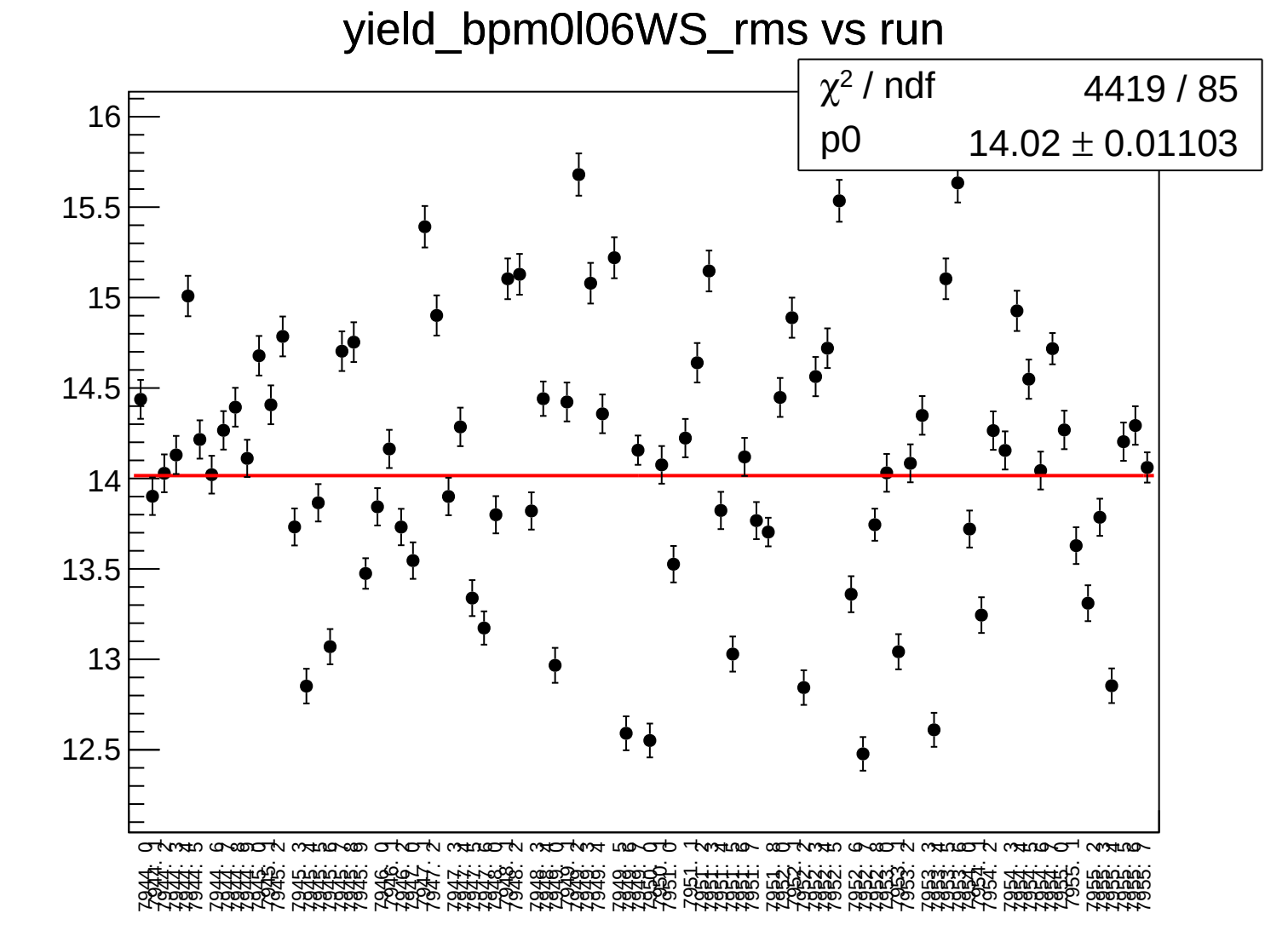

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.25e+05 / 85
p0 1.385e+05 ± 0.2842
138.7
138.6
138.5
138.4
138.3
pull
Entries 86
Mean −586.1
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

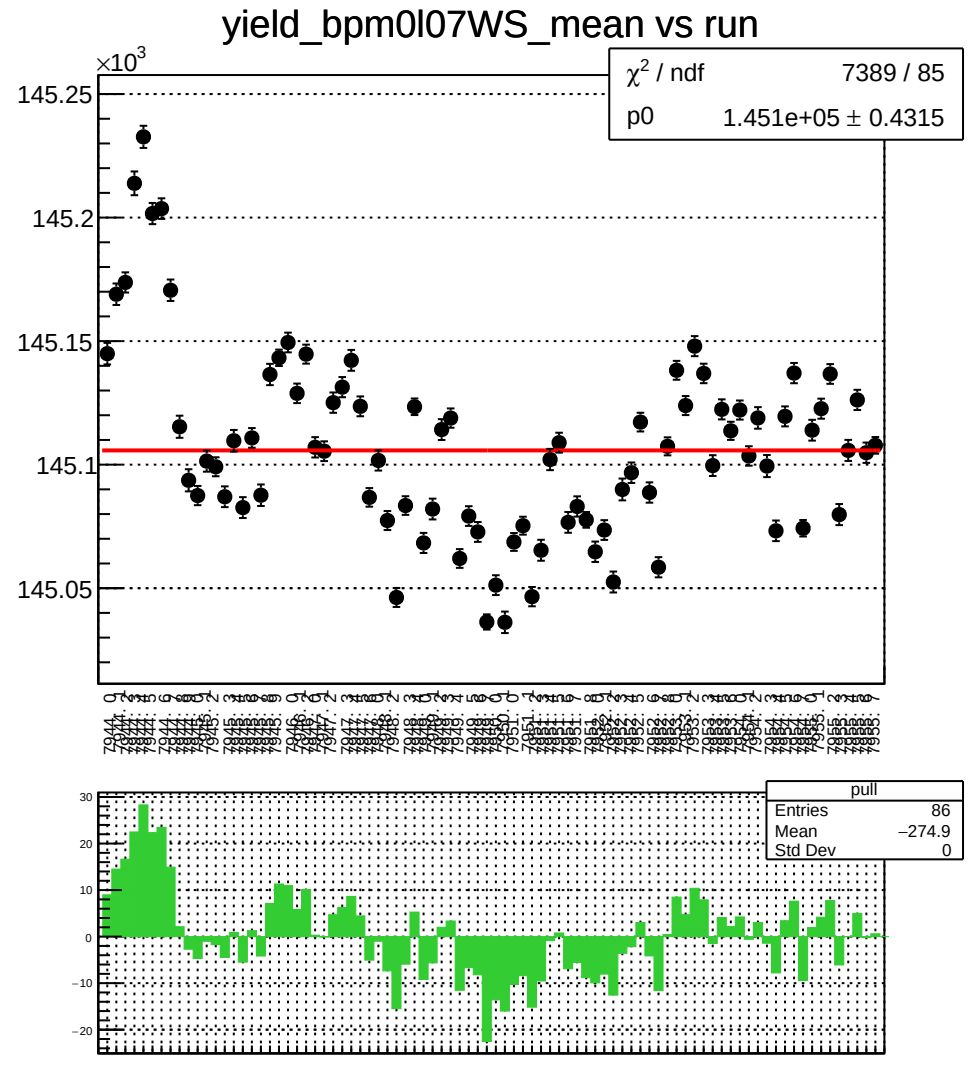

pull1D
Entries 86
Mean 1.932
Std Dev 4.323
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

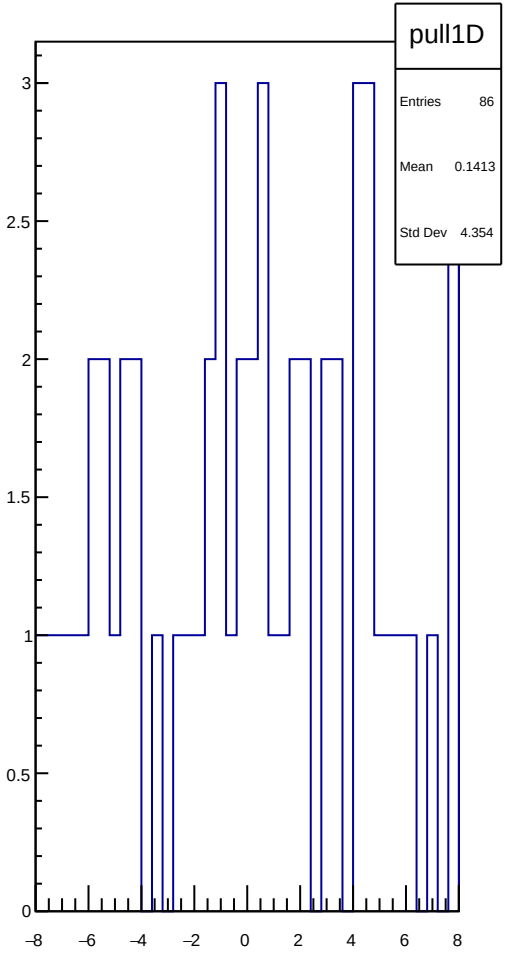

yield_bpm0l05WS_rms vs run
χ² / ndf 3269 / 85
p0 255.5 ± 0.201
290
280
270
260
250
240
230

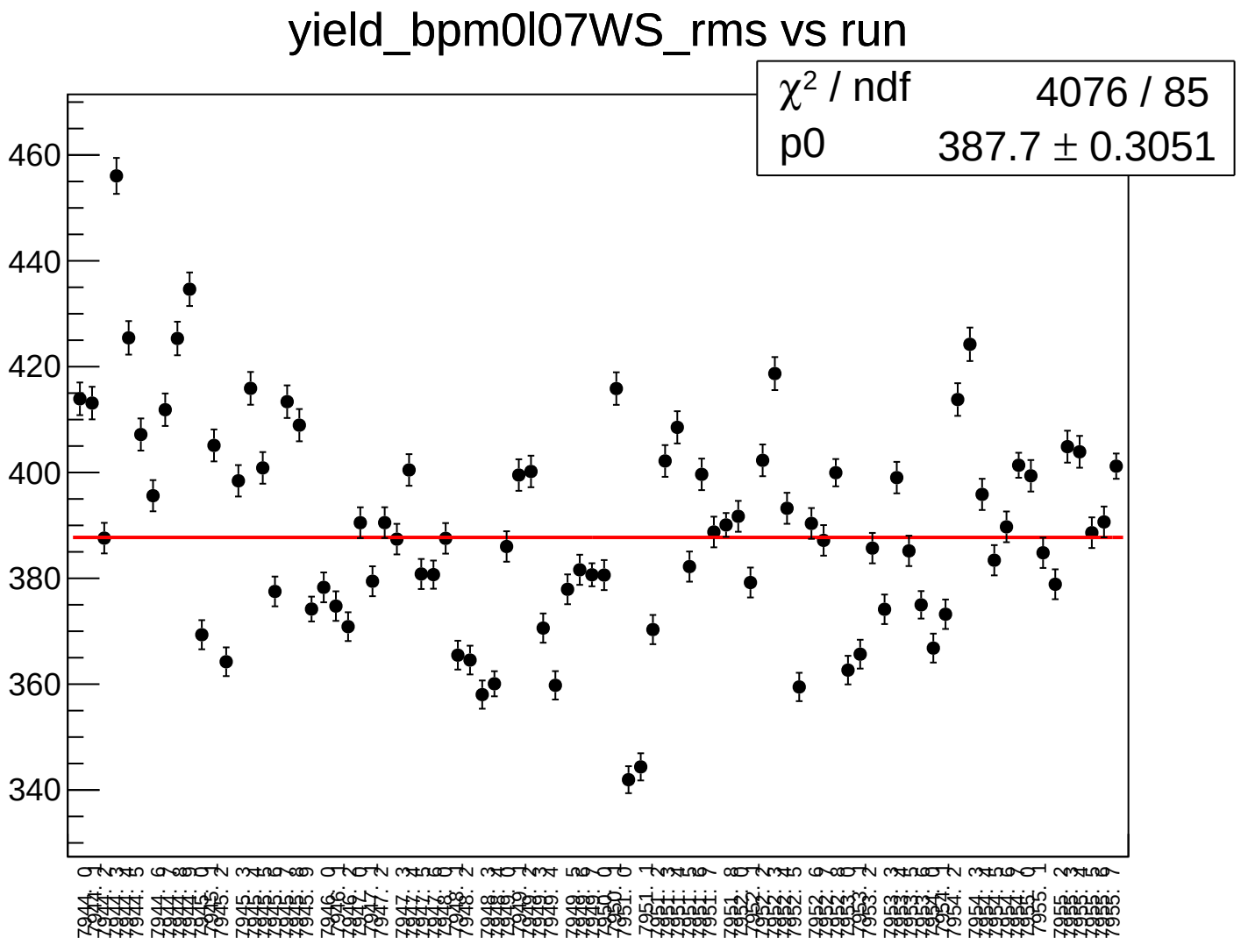

yield_bpm0l06WS_mean vs run
χ² / ndf 1.716e+04 / 85
p0 2391 ± 0.0156
2394
2392
2390
2388
2386
pull
Entries 86
Mean −1104
Std Dev 0
20
10
0
−10
−20
−30

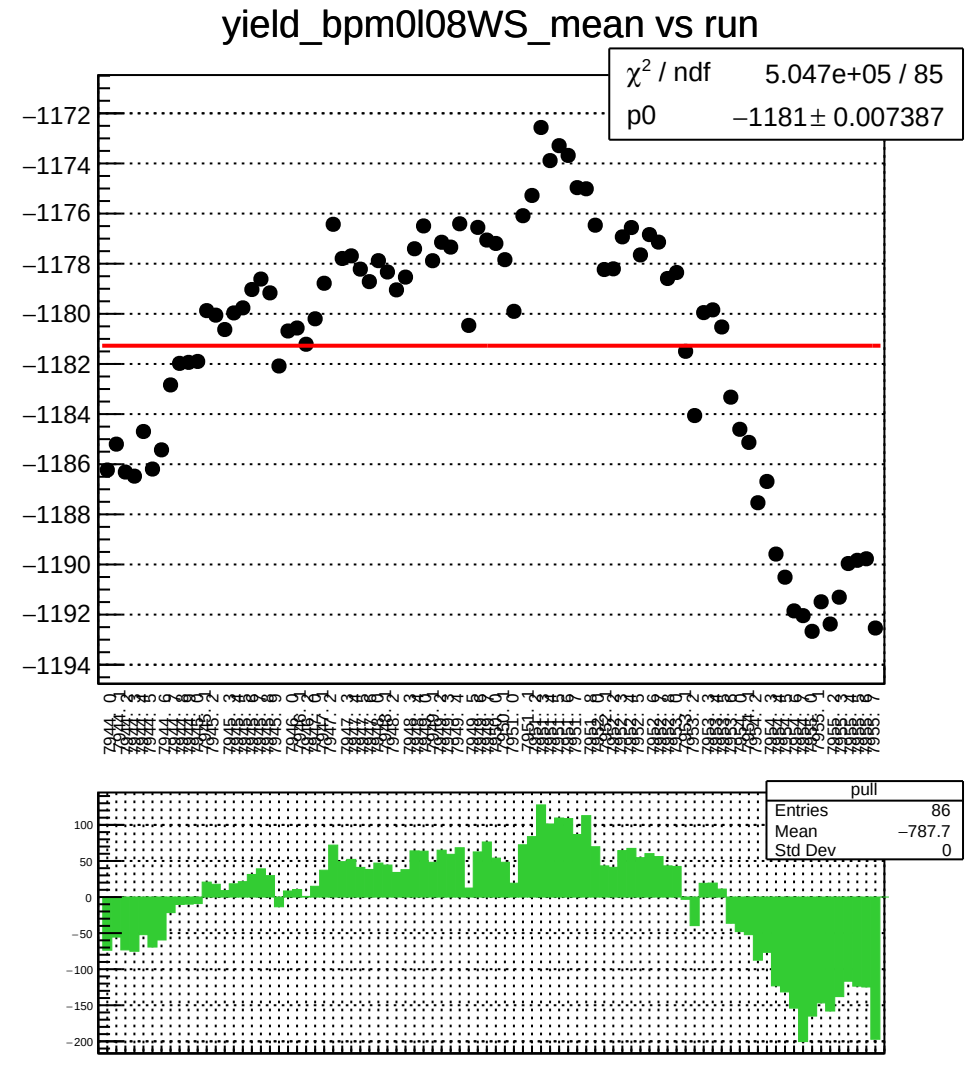

pull1D
Entries 86
Mean 2.776
Std Dev 3.891
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

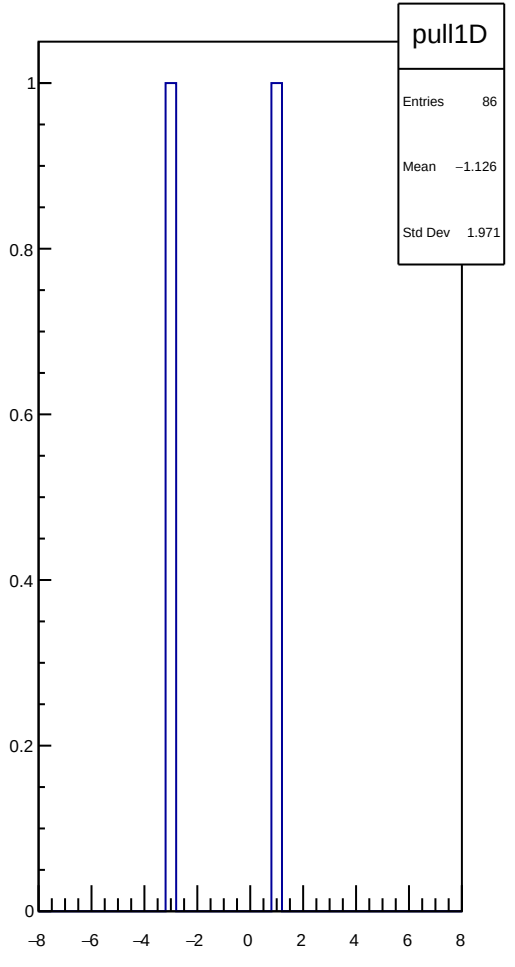

yield_bpm0l06WS_rms vs run
χ² / ndf 4419 / 85
p0 14.02 ± 0.01103
16
15.5
15
14.5
14
13.5
13
12.5

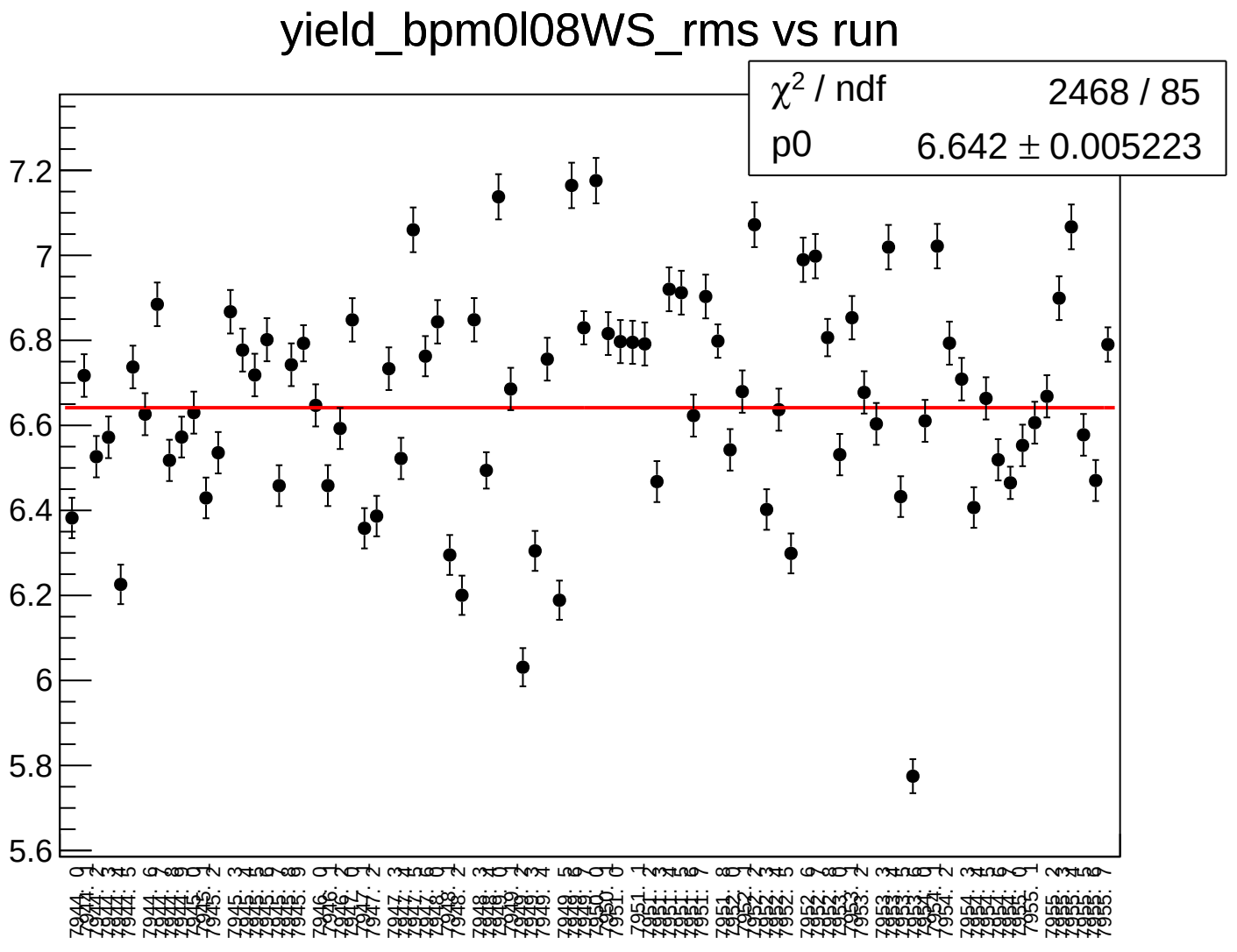

yield_bpm0l07WS_mean vs run
×10^3
145.25
145.2
145.15
145.1
145.05
χ² / ndf 7389 / 85
p0 1.451e+05 ± 0.4315
pull
Entries 86
Mean −274.9
Std Dev 0
30
20
10
0
−10
−20

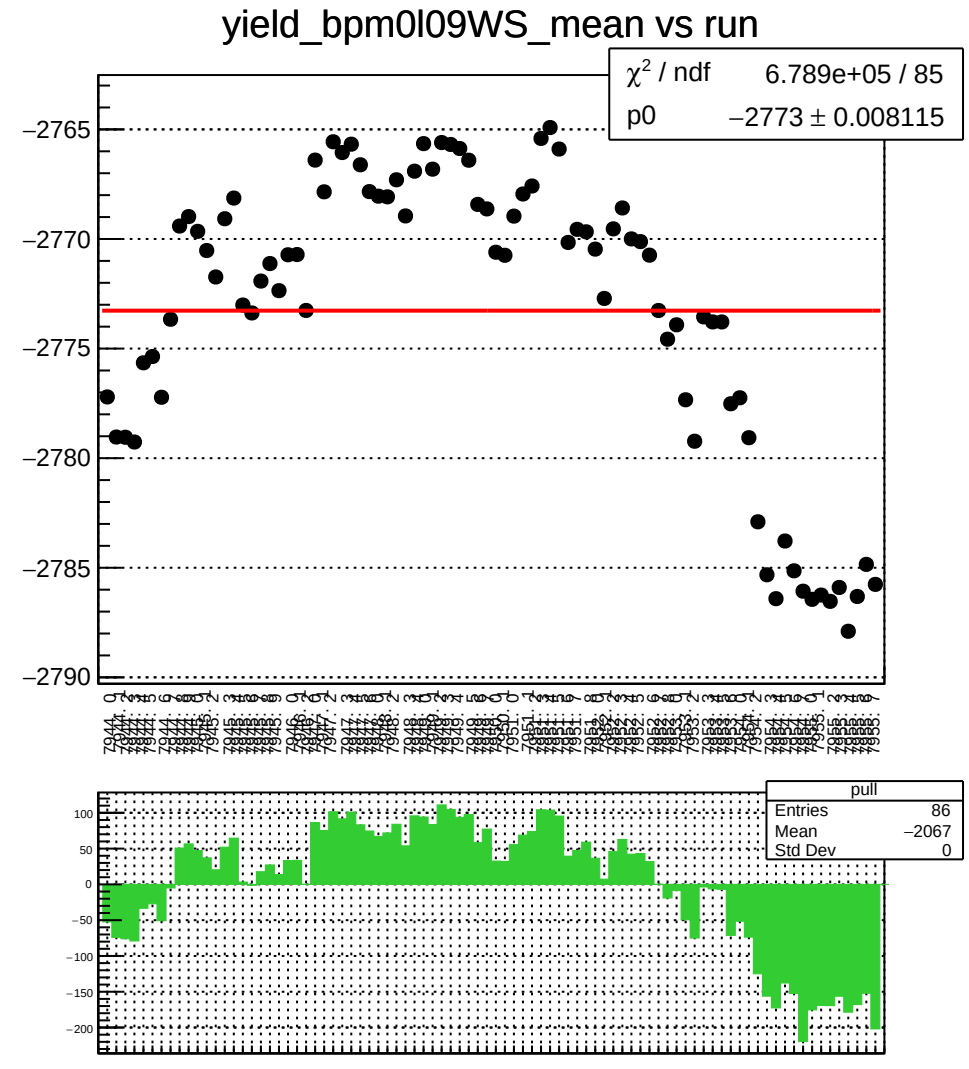

pull1D
Entries 86
Mean 0.1413
Std Dev 4.354
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

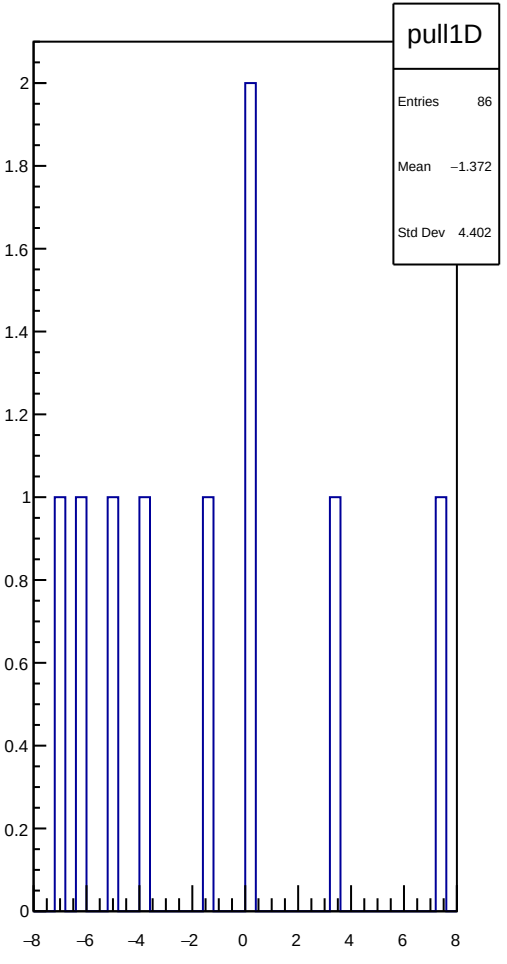

yield_bpm0l07WS_rms vs run
χ² / ndf 4076 / 85
p0 387.7 ± 0.3051
460
440
420
400
380
360
340

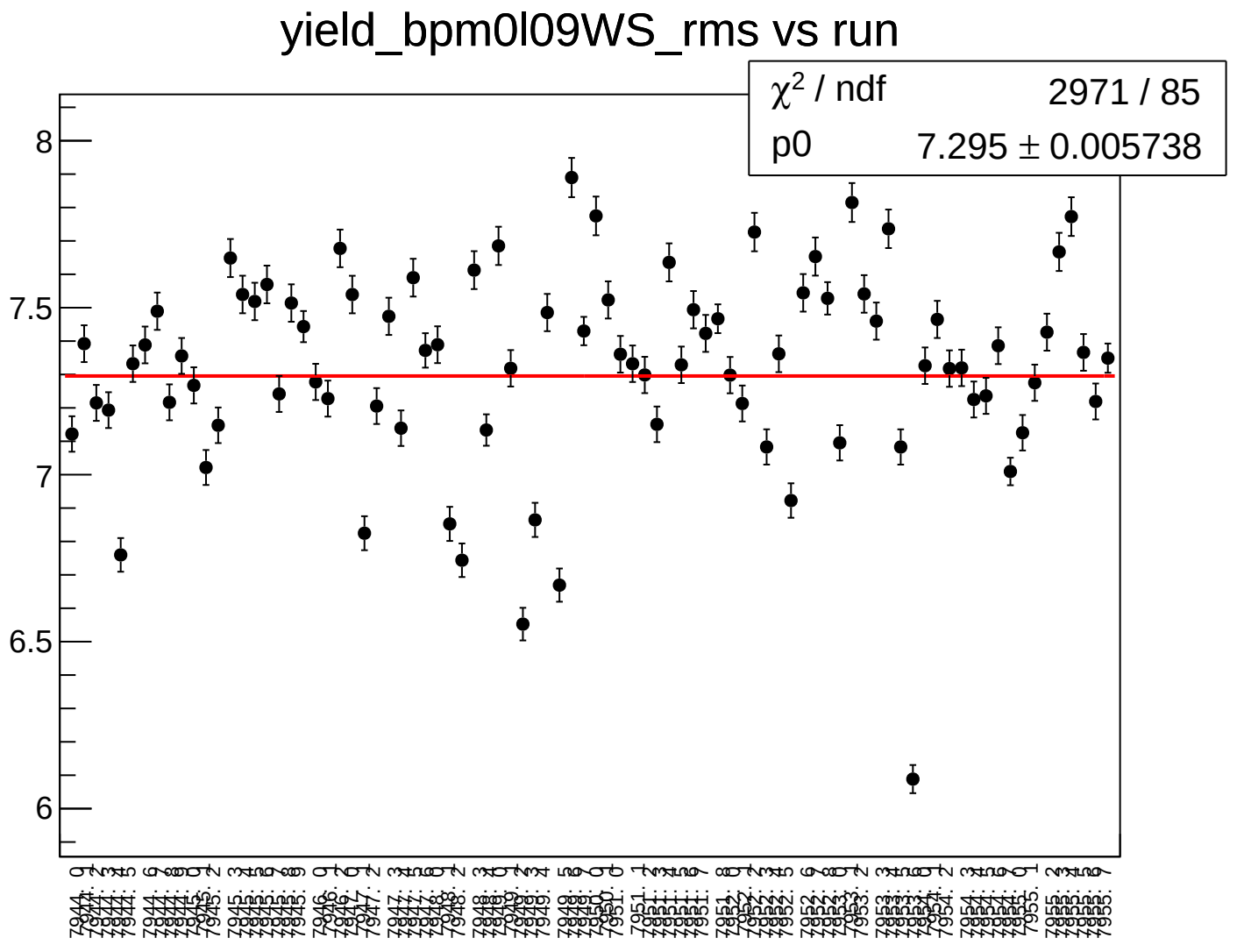

yield_bpm0l08WS_mean vs run
χ² / ndf 5.047e+05 / 85
p0 −1181 ± 0.007387
−1172
−1174
−1176
−1178
−1180
−1182
−1184
−1186
−1188
−1190
−1192
−1194
pull
Entries 86
Mean −787.7
Std Dev 0
100
50
0
−50
−100
−150
−200

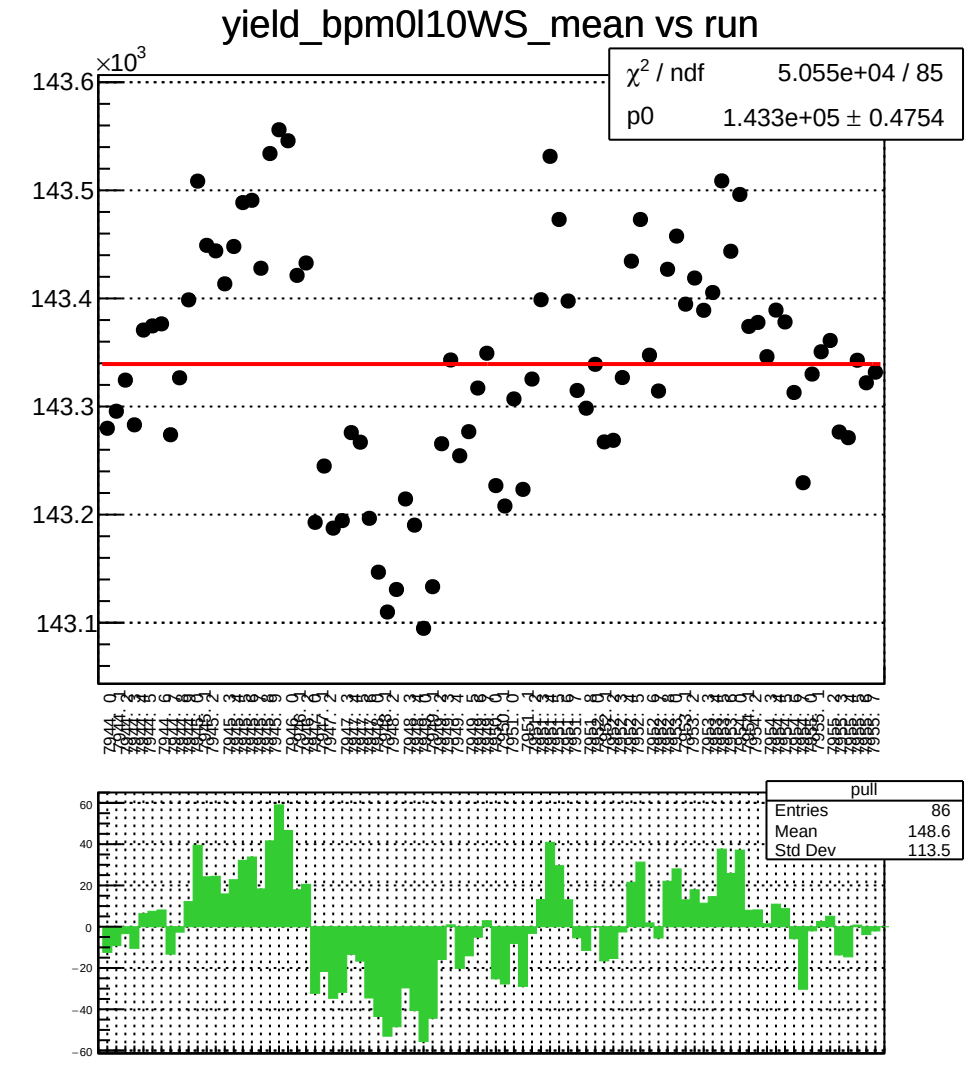

pull1D
Entries 86
Mean −1.126
Std Dev 1.971
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

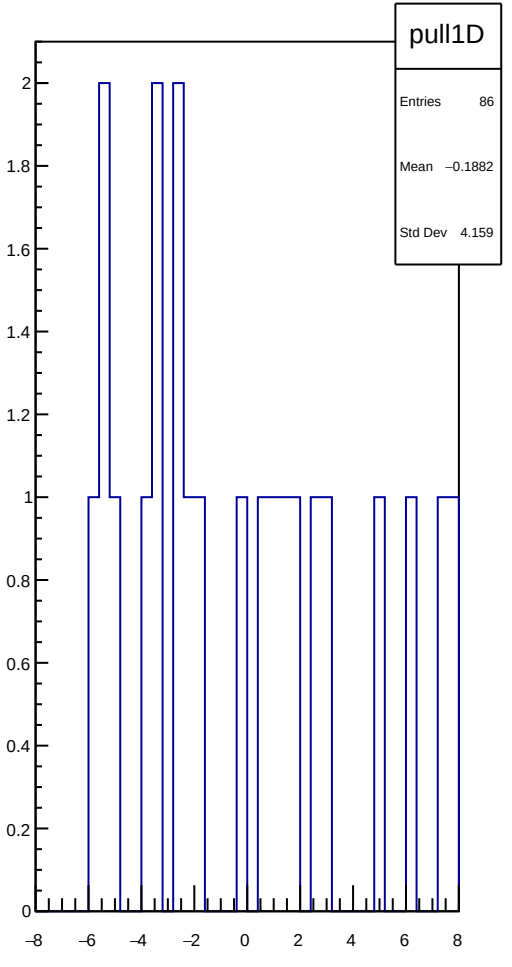

yield_bpm0l08WS_rms vs run
χ² / ndf 2468 / 85
p0 6.642 ± 0.005223
7.2
7
6.8
6.6
6.4
6.2
6
5.8
5.6

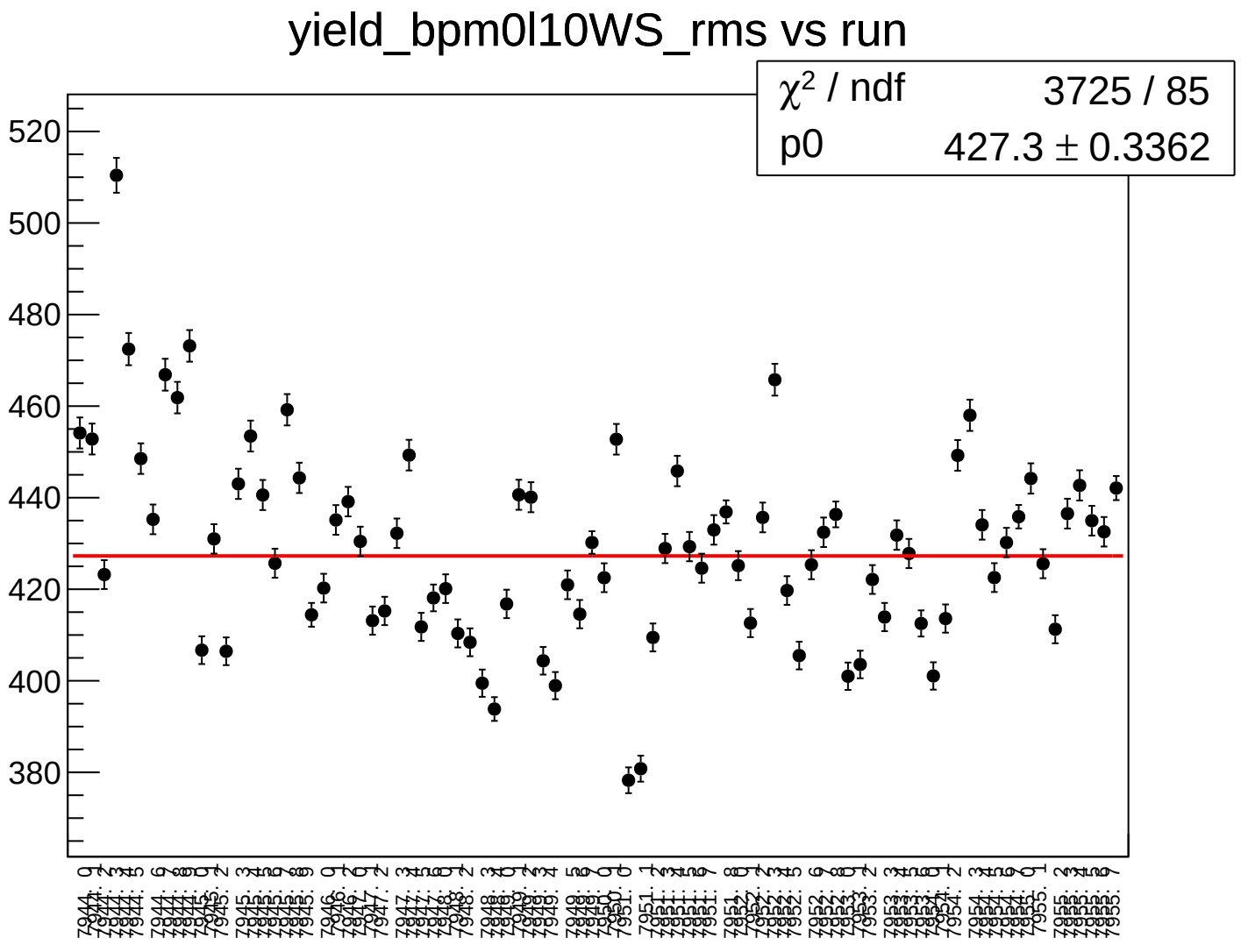

yield_bpm0l09WS_mean vs run
χ² / ndf 6.789e+05 / 85
p0 −2773 ± 0.008115
−2765
−2770
−2775
−2780
−2785
−2790
pull
Entries 86
Mean −2067
Std Dev 0
100
50
0
−50
−100
−150
−200

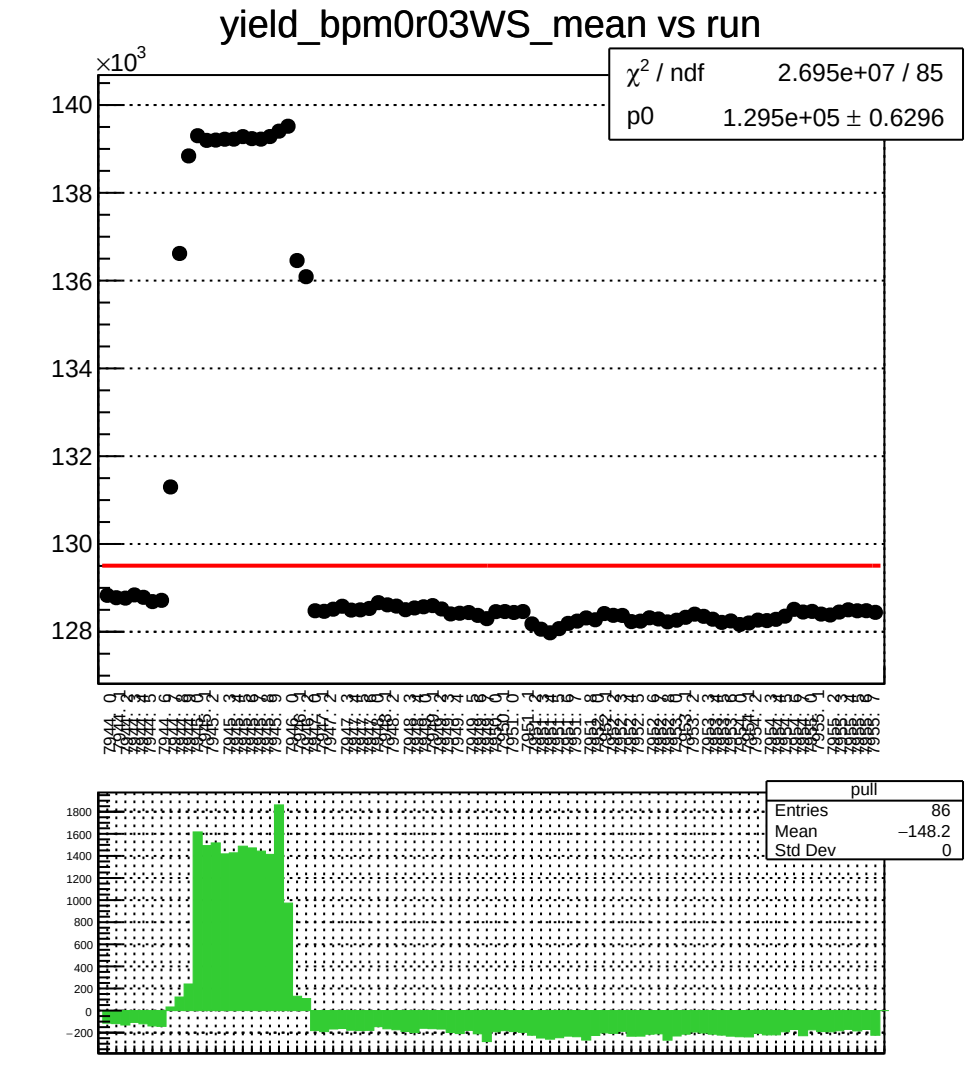

pull1D
Entries 86
Mean −1.372
Std Dev 4.402
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

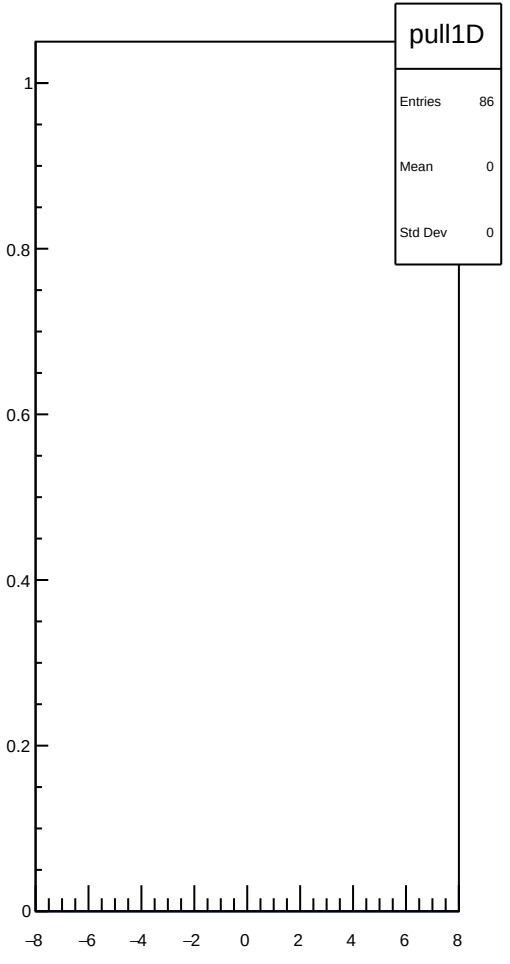

yield_bpm0l09WS_rms vs run
χ² / ndf 2971 / 85
p0 7.295 ± 0.005738
8
7.5
7
6.5
6

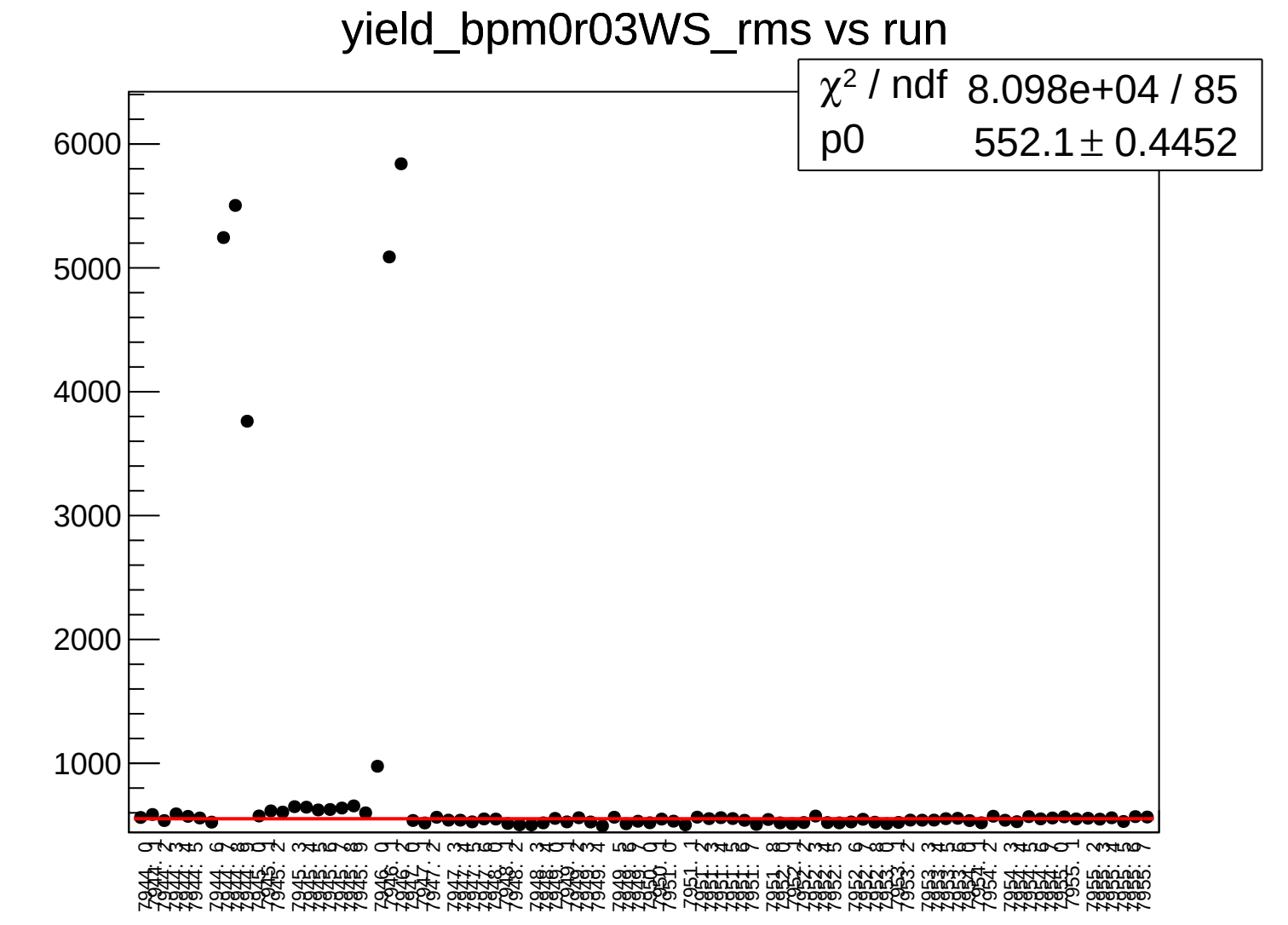

yield_bpm0l10WS_mean vs run
×10^3
143.6
143.5
143.4
143.3
143.2
143.1
χ² / ndf 5.055e+04 / 85
p0 1.433e+05 ± 0.4754
pull
Entries 86
Mean 148.6
Std Dev 113.5
60
40
20
0
−20
−40
−60

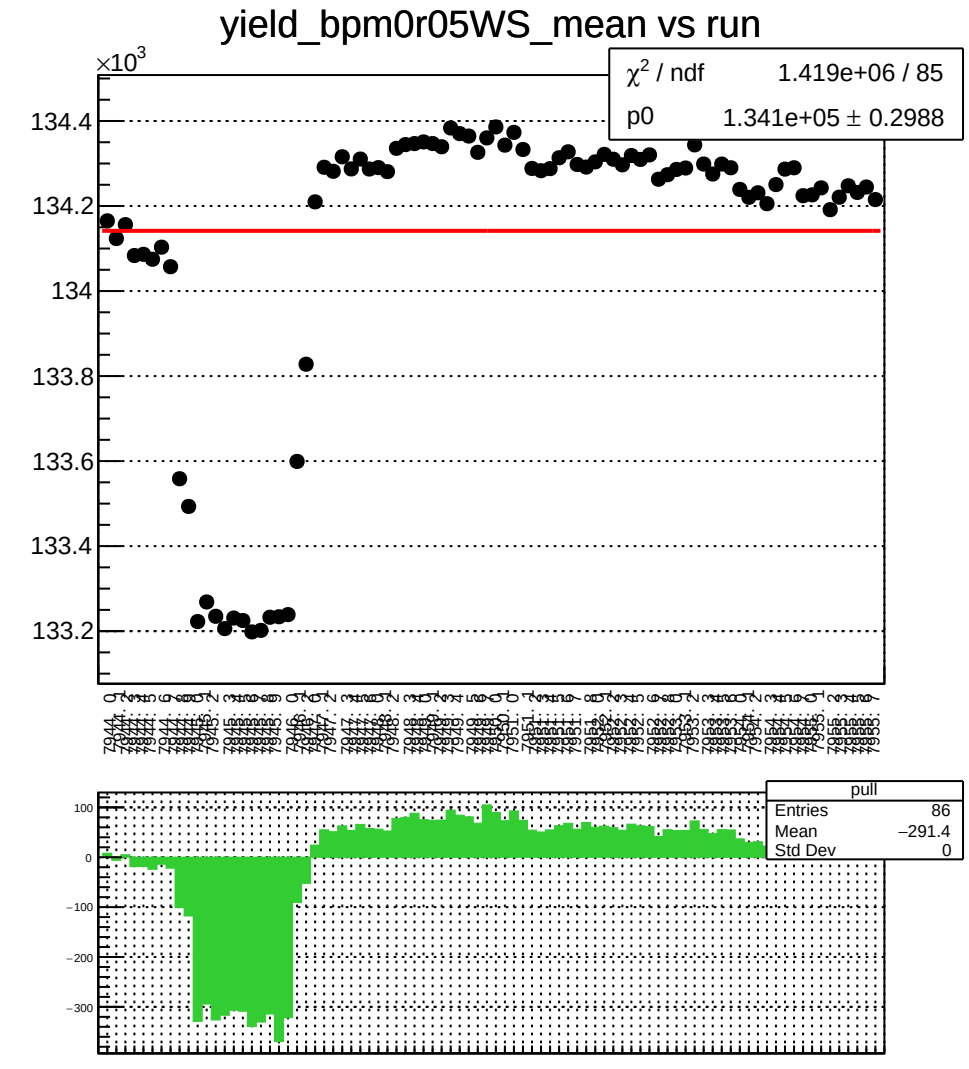

pull1D
Entries 86
Mean −0.1882
Std Dev 4.159
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

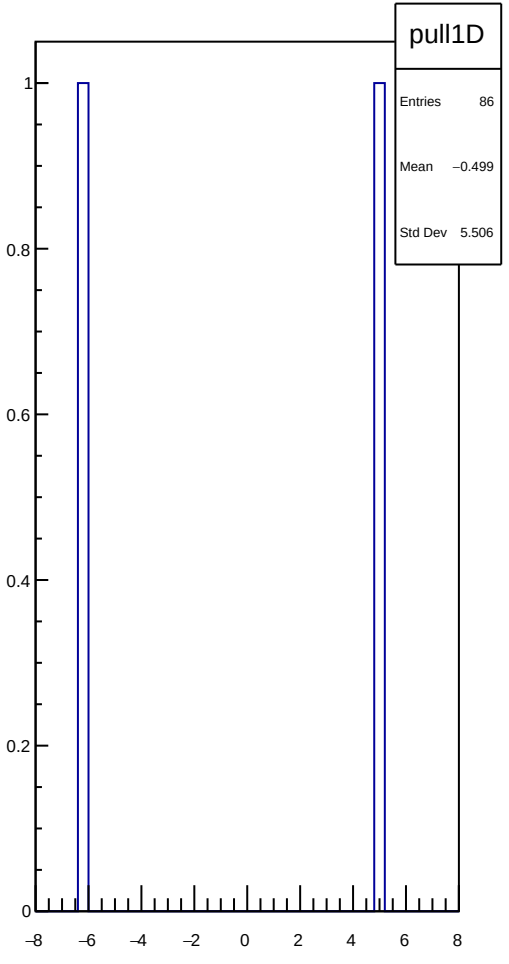

yield_bpm0l10WS_rms vs run
χ² / ndf 3725 / 85
p0 427.3 ± 0.3362
520
500
480
460
440
420
400
380

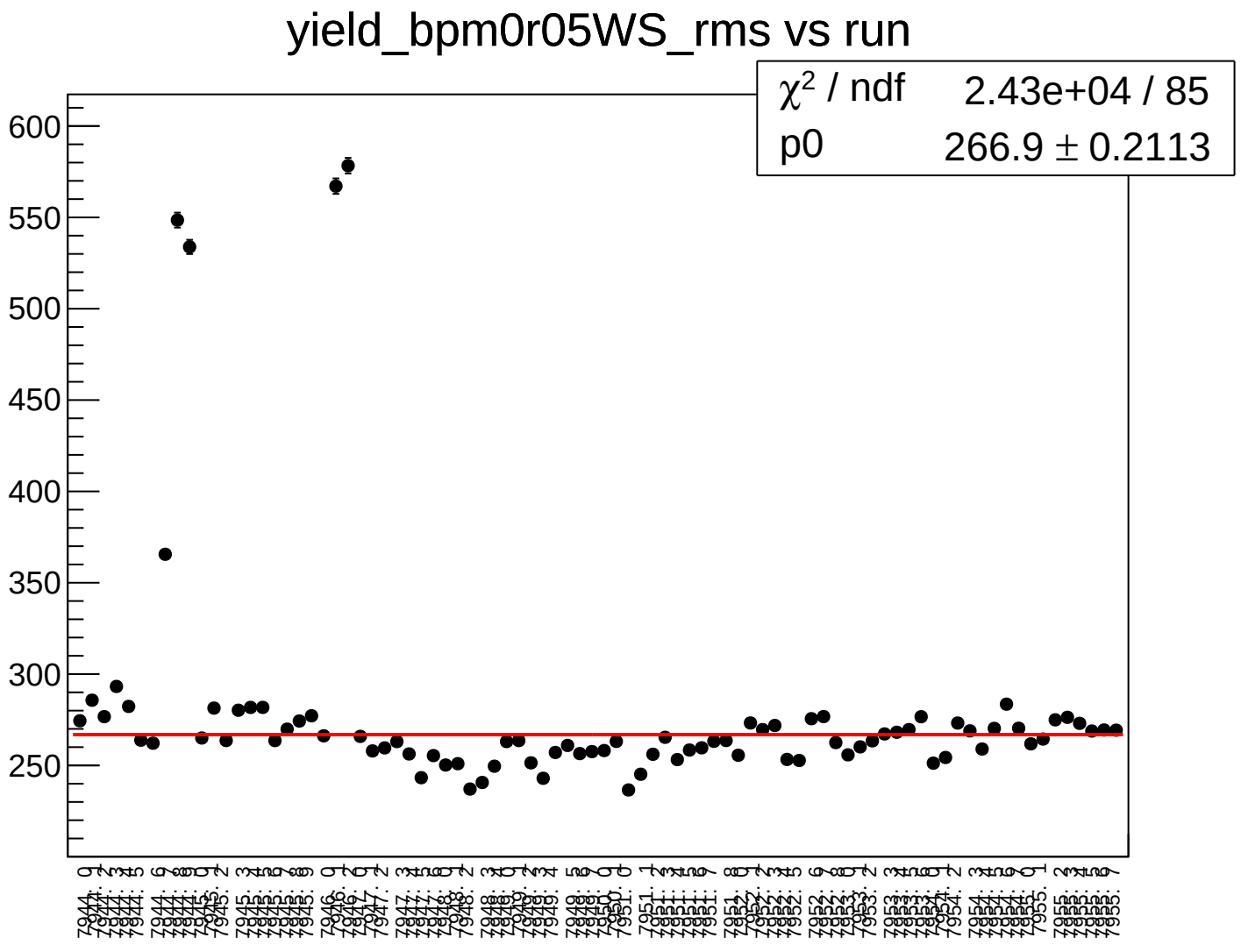

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.695e+07 / 85
p0 1.295e+05 ± 0.6296
140
138
136
134
132
130
128
pull
Entries 86
Mean −148.2
Std Dev 0
1800
1600
1400
1200
1000
800
600
400
200
0
−200

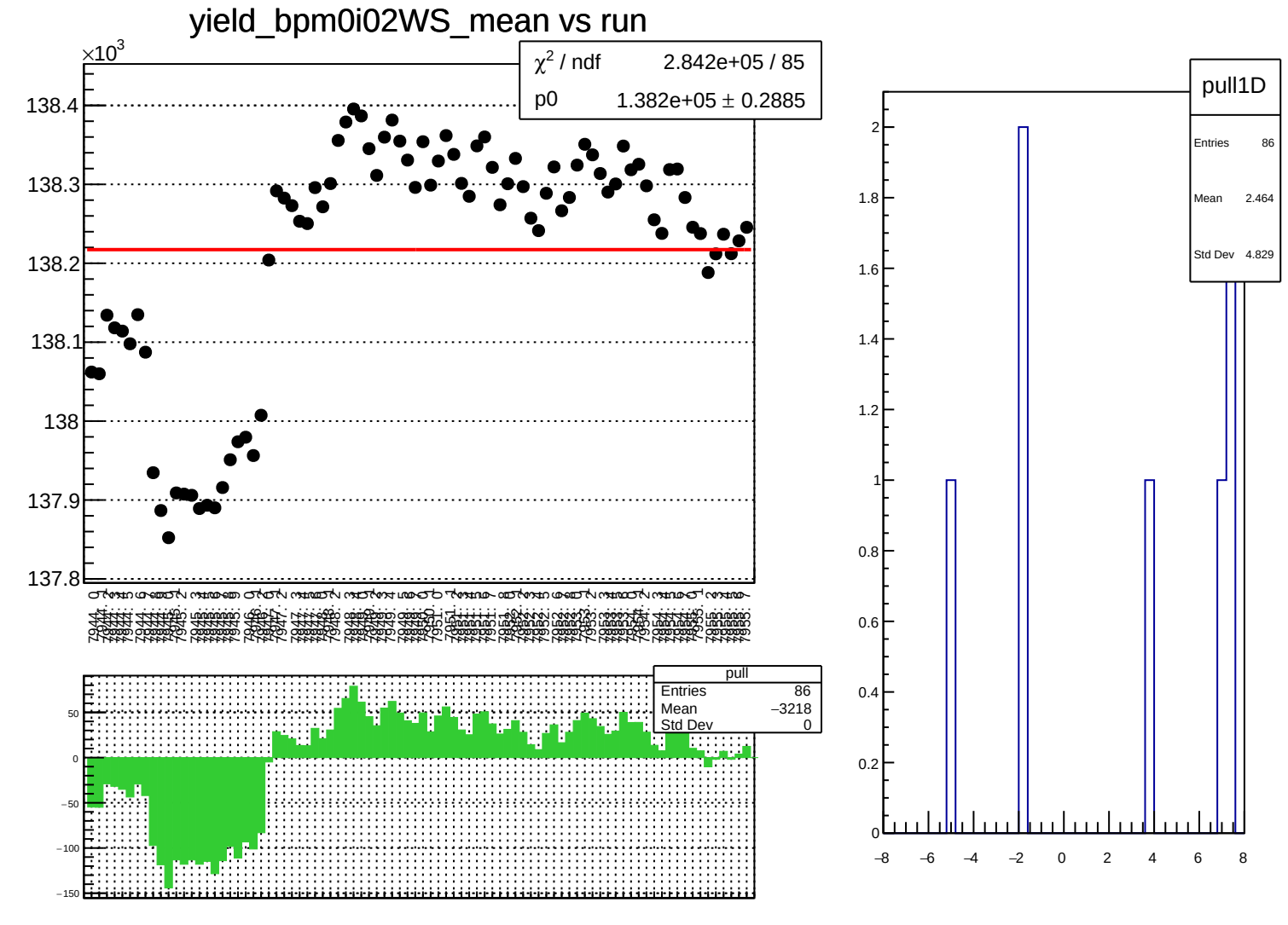

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

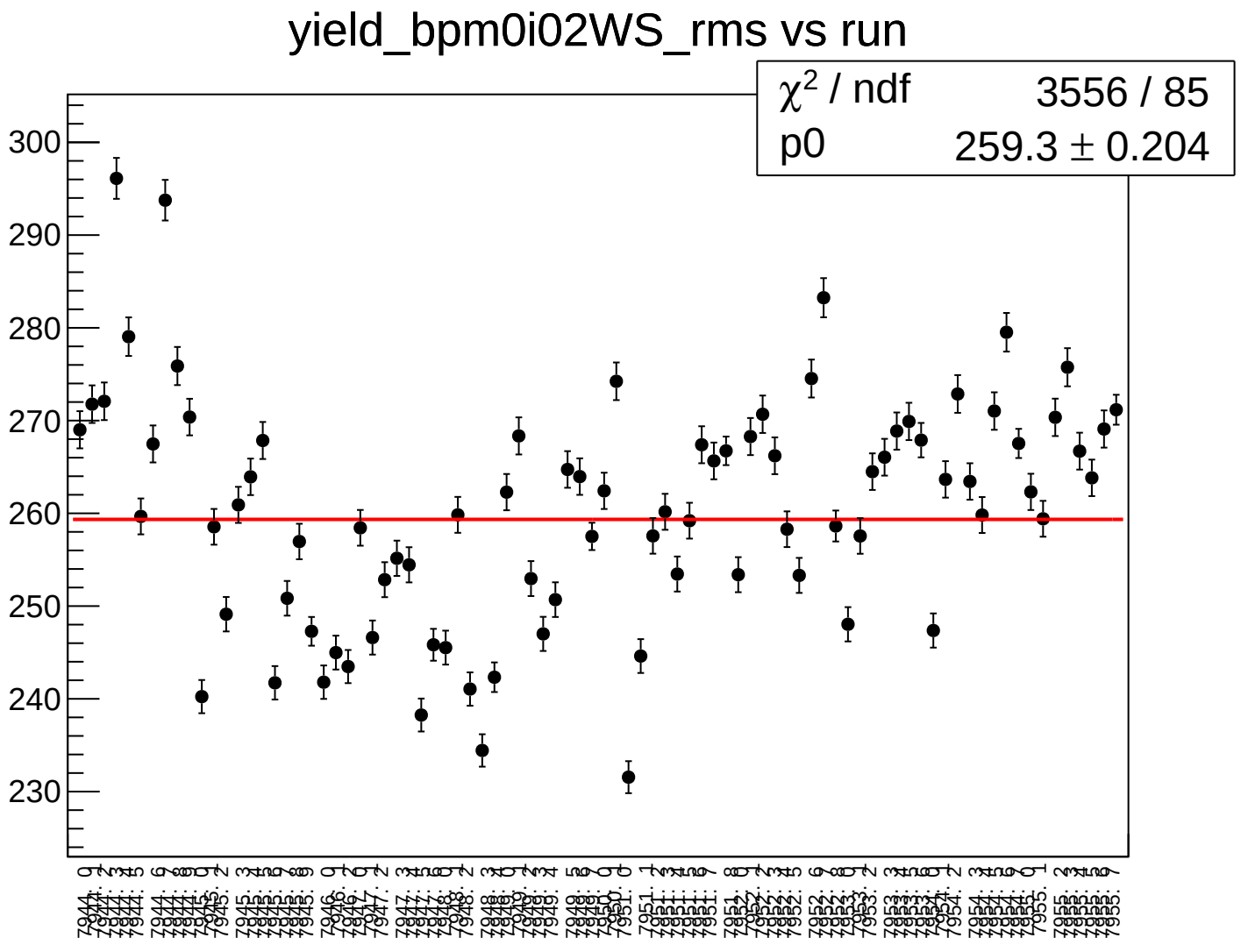

yield_bpm0r03WS_rms vs run
χ² / ndf 8.098e+04 / 85
p0 552.1 ± 0.4452
6000
5000
4000
3000
2000
1000

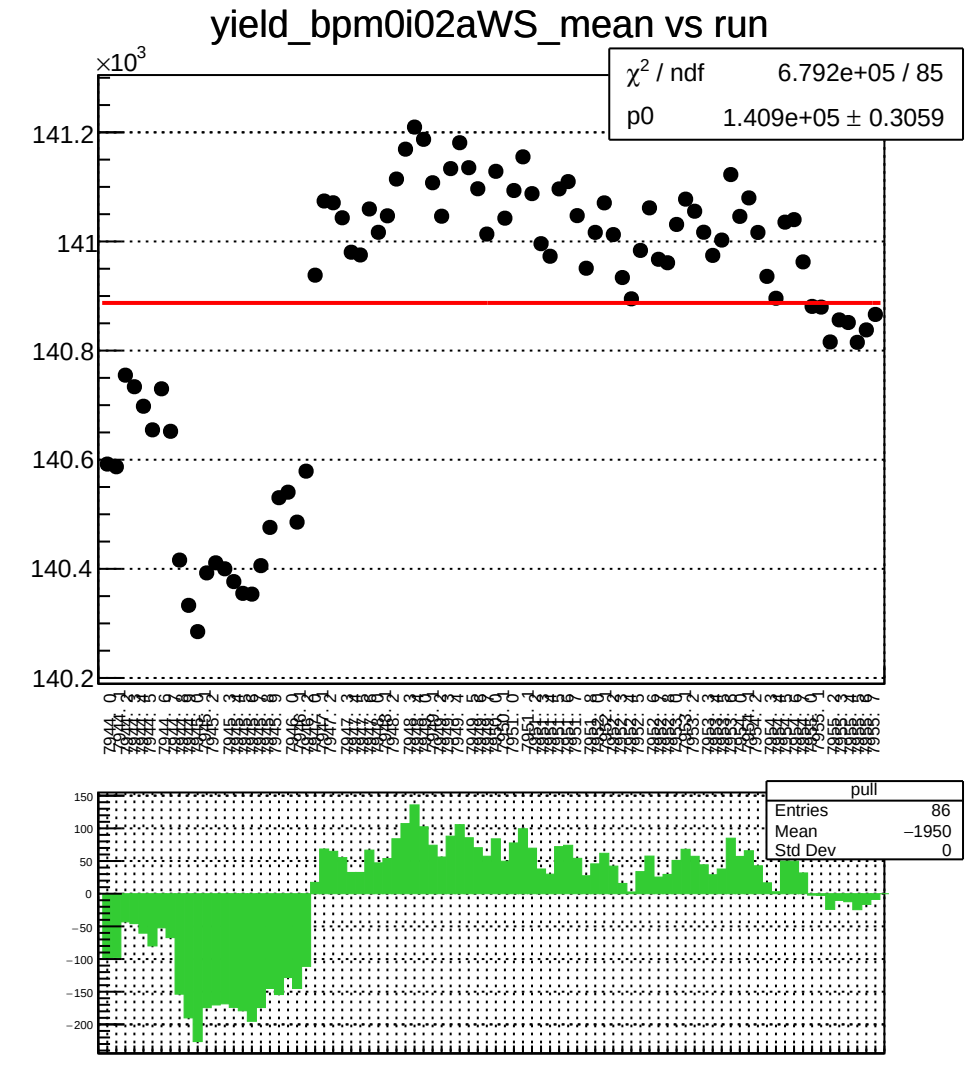

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.419e+06 / 85
p0 1.341e+05 ± 0.2988
134.4
134.2
134
133.8
133.6
133.4
133.2
pull
Entries 86
Mean −291.4
Std Dev 0
100
0
−100
−200
−300

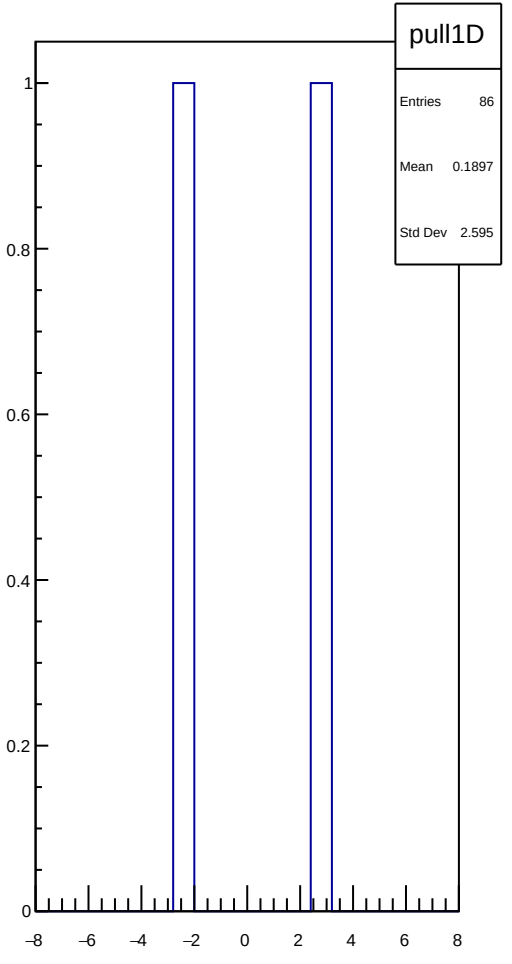

pull1D
Entries 86
Mean −0.499
Std Dev 5.506
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

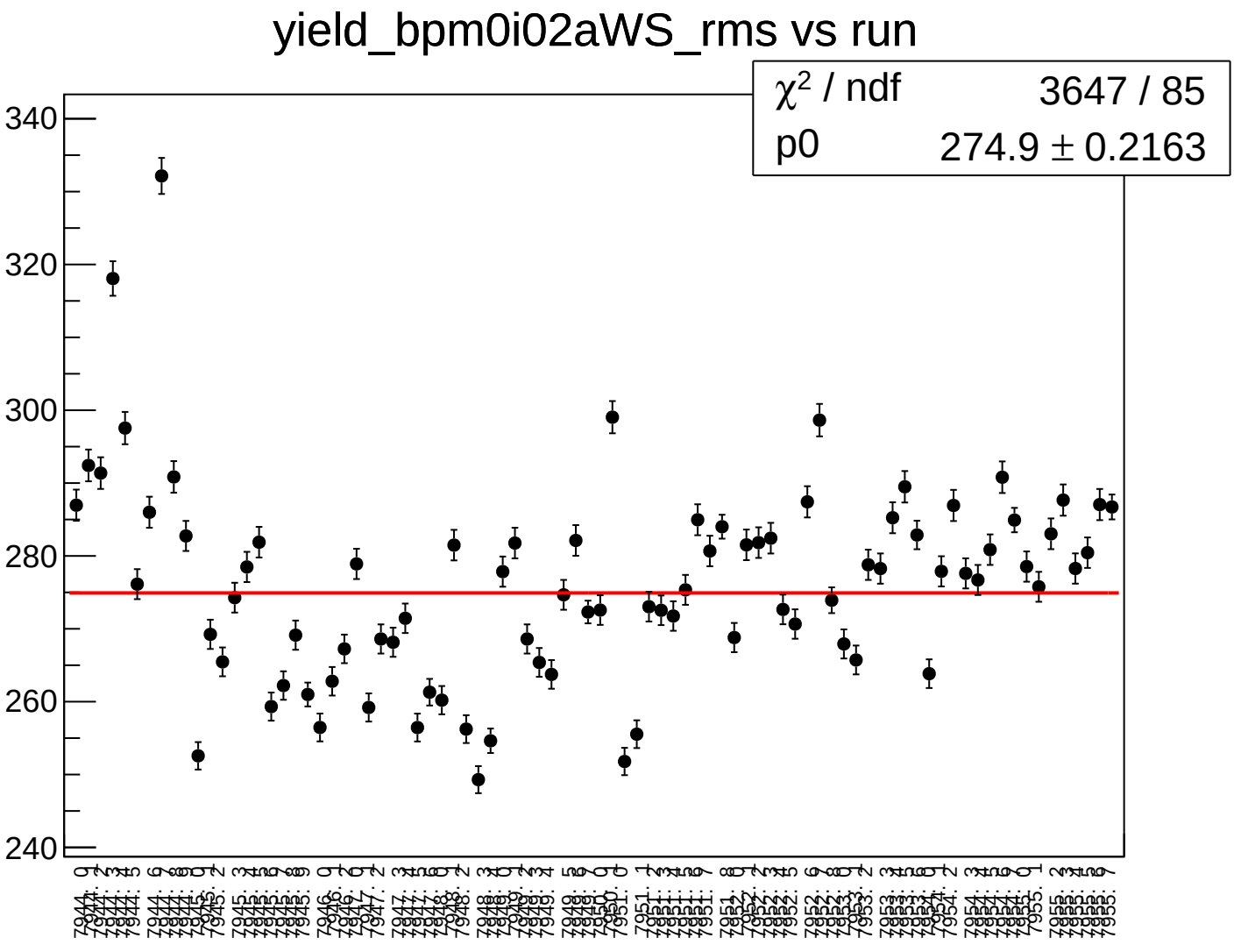

yield_bpm0r05WS_rms vs run
χ² / ndf 2.43e+04 / 85
p0 266.9 ± 0.2113
600
550
500
450
400
350
300
250

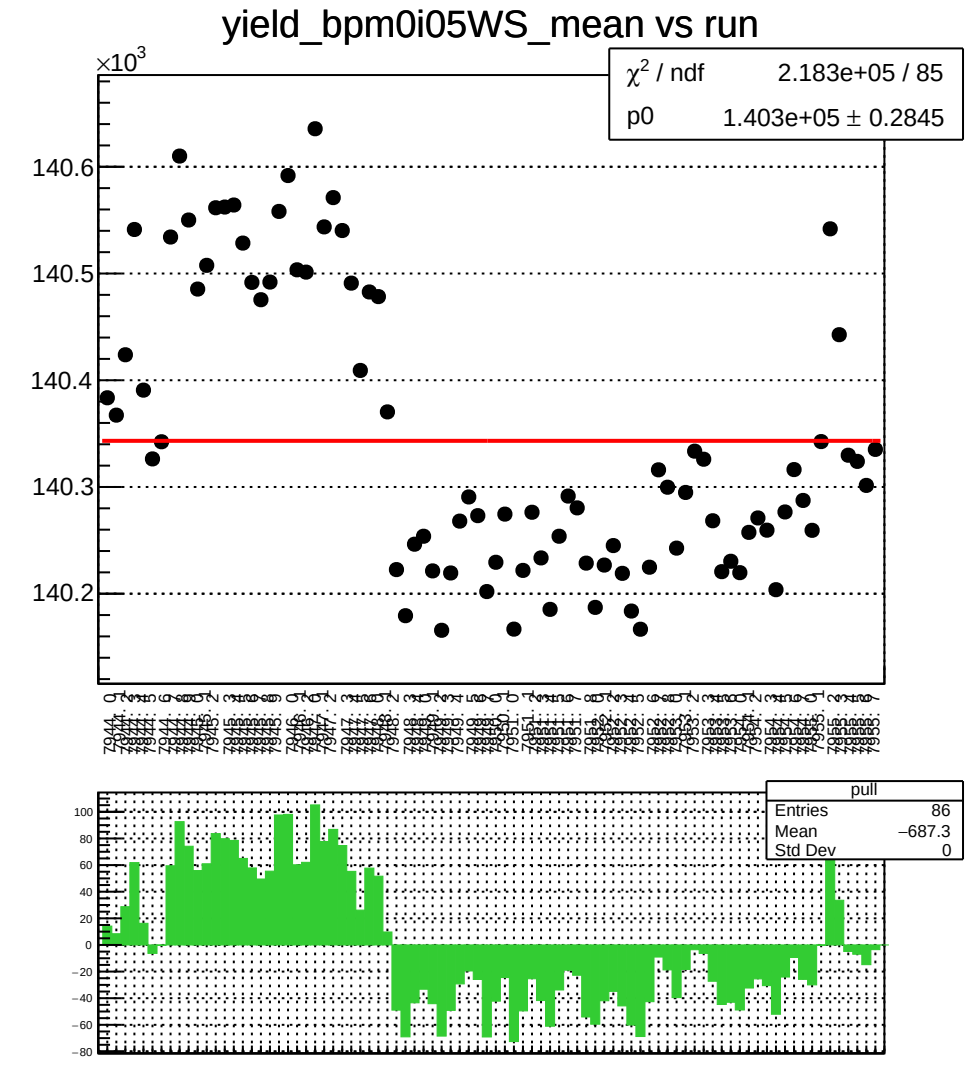

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.842e+05 / 85
p0 1.382e+05 ± 0.2885
138.4
138.3
138.2
138.1
138
137.9
137.8
pull
Entries 86
Mean −3218
Std Dev 0
50
0
−50
−100
−150
pull1D
Entries 86
Mean 2.464
Std Dev 4.829
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

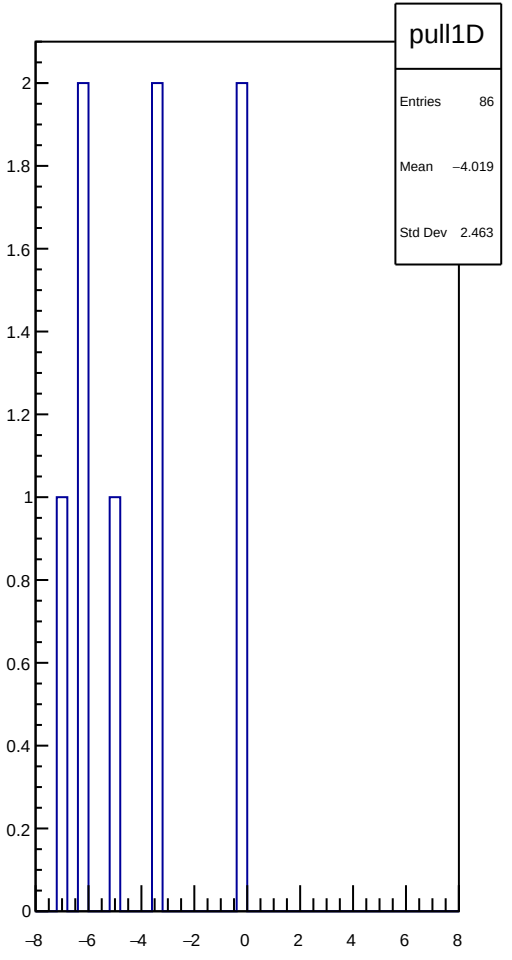

yield_bpm0i02WS_rms vs run
χ² / ndf 3556 / 85
p0 259.3 ± 0.204
300
290
280
270
260
250
240
230

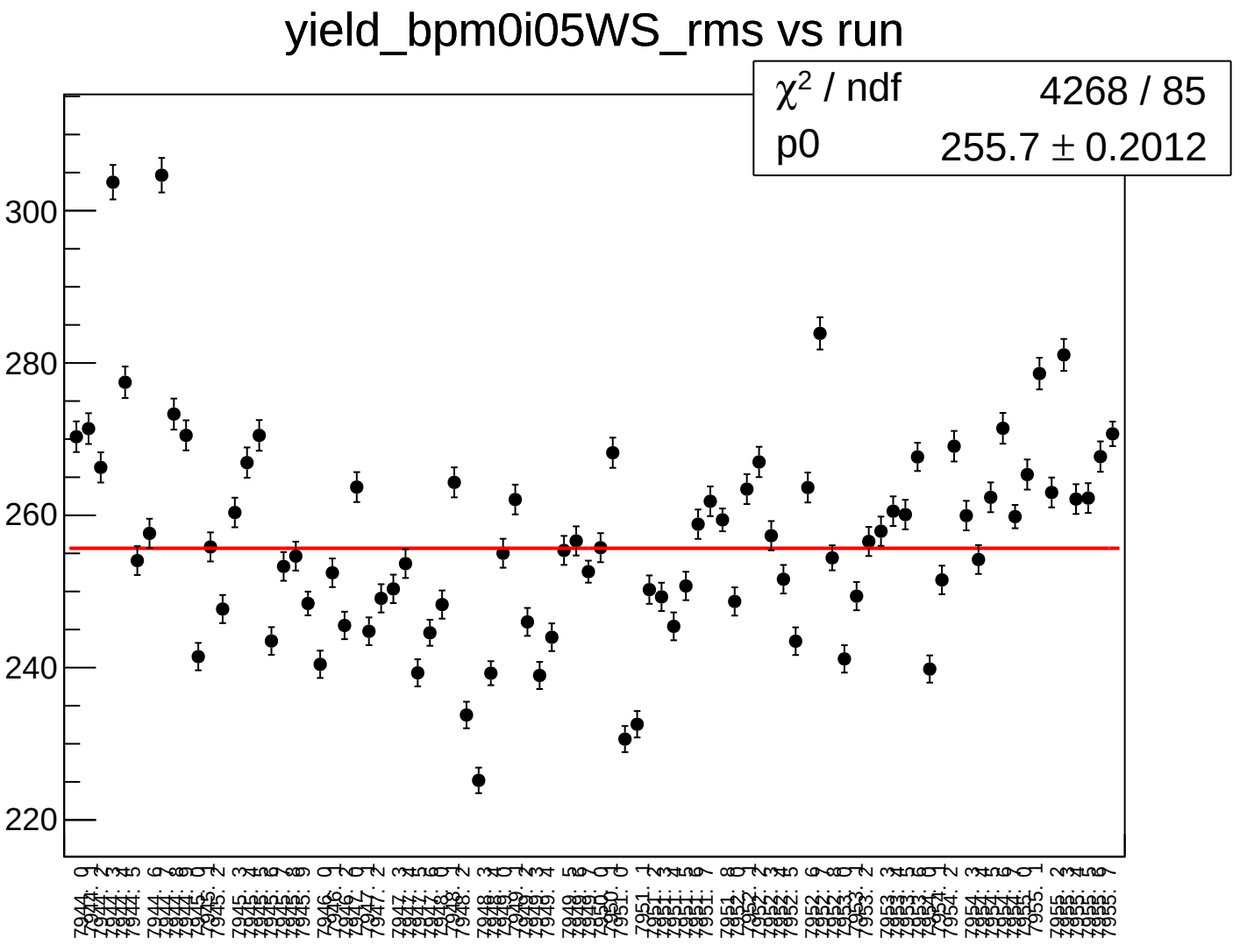

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 6.792e+05 / 85
p0 1.409e+05 ± 0.3059
141.2
141
140.8
140.6
140.4
140.2
pull
Entries 86
Mean −1950
Std Dev 0
150
100
50
0
−50
−100
−150
−200

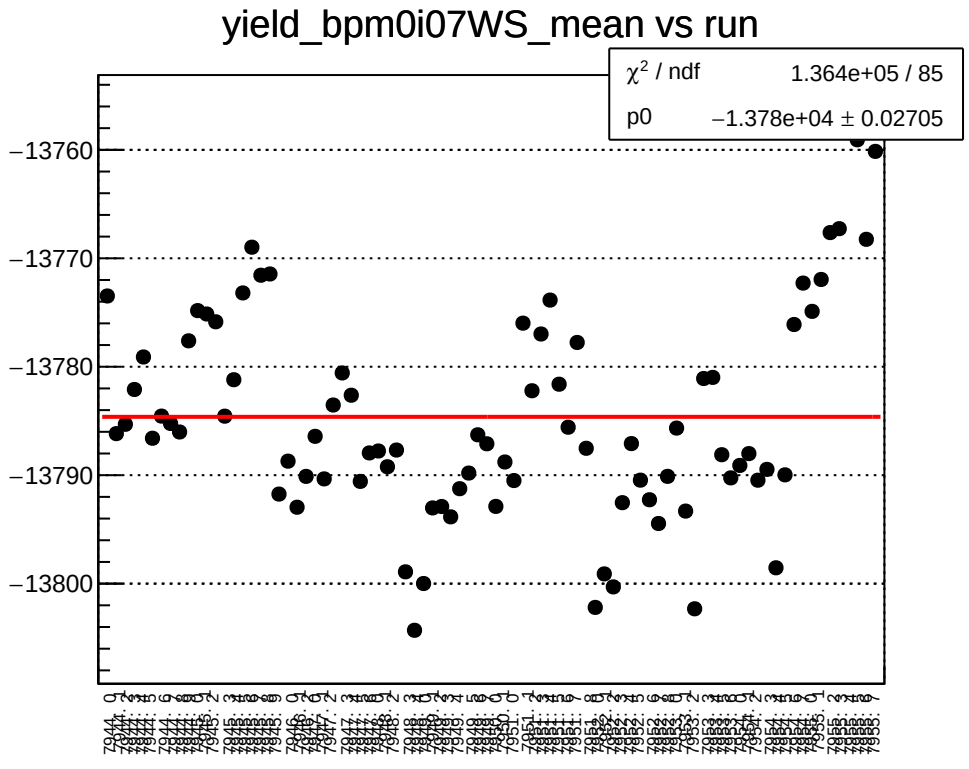

pull1D
Entries 86
Mean 0.1897
Std Dev 2.595
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

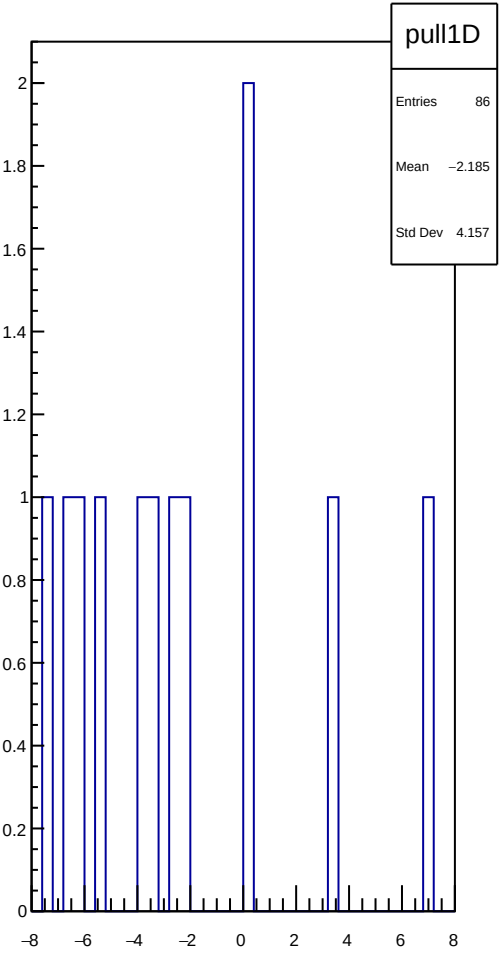

yield_bpm0i02aWS_rms vs run
χ² / ndf 3647 / 85
p0 274.9 ± 0.2163
340
320
300
280
260
240

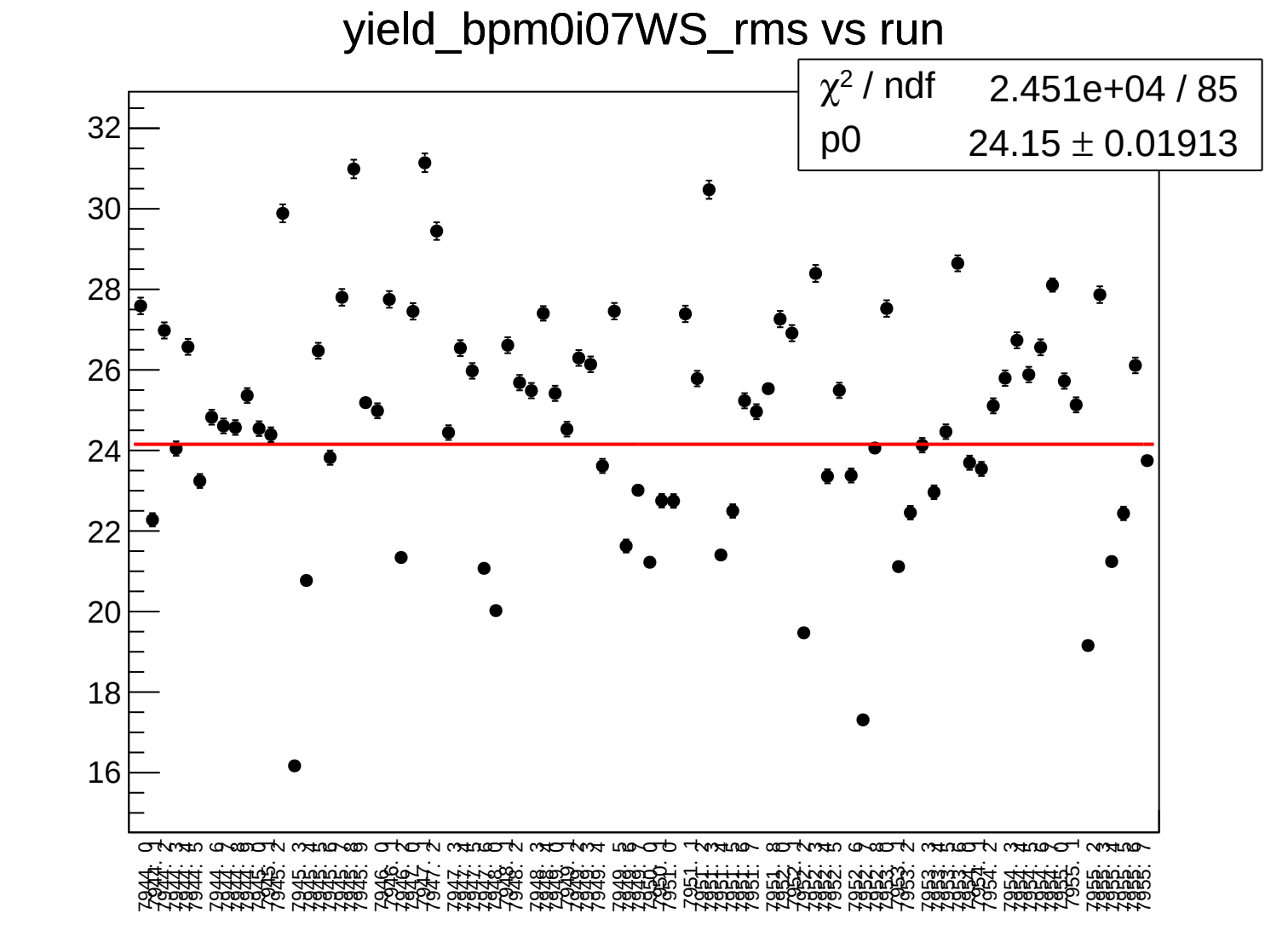

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 2.183e+05 / 85
p0 1.403e+05 ± 0.2845
140.6
140.5
140.4
140.3
140.2
pull
Entries 86
Mean −687.3
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

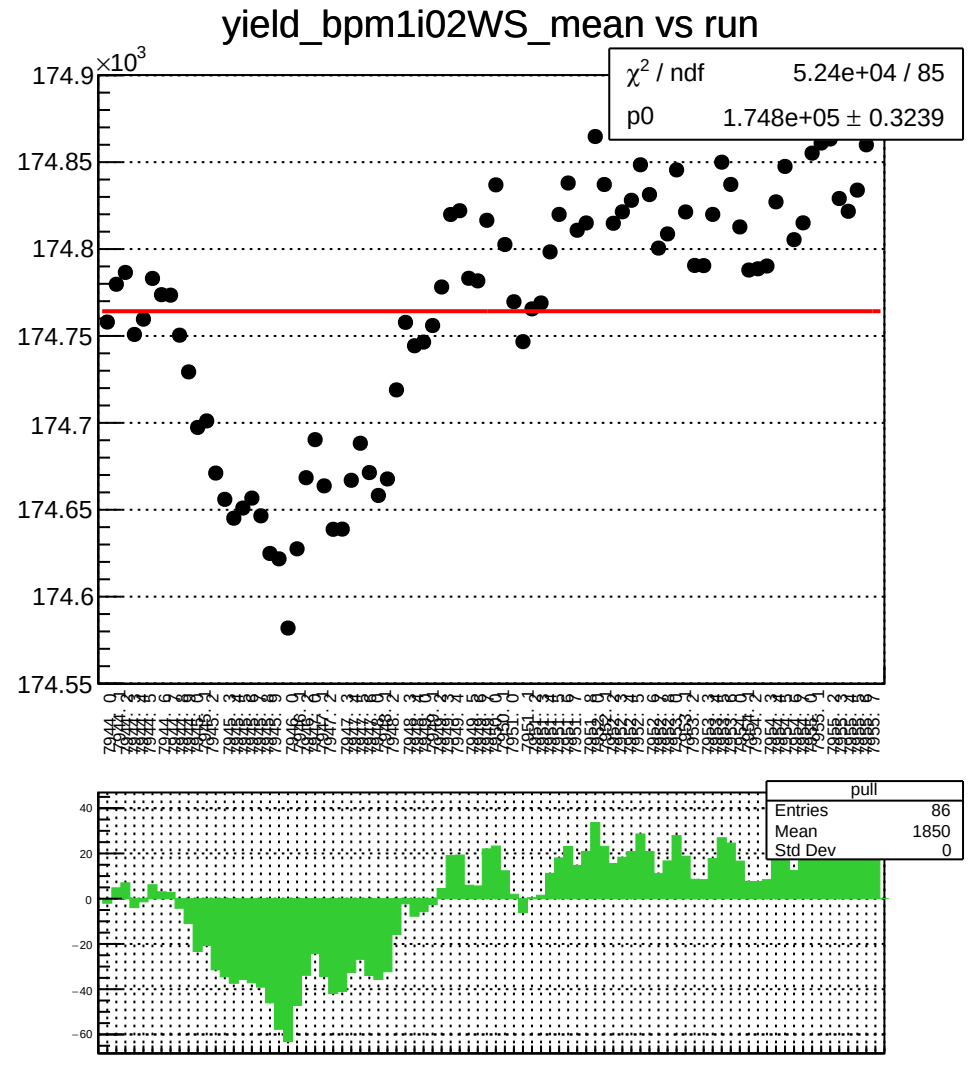

pull1D
Entries 86
Mean −4.019
Std Dev 2.463
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

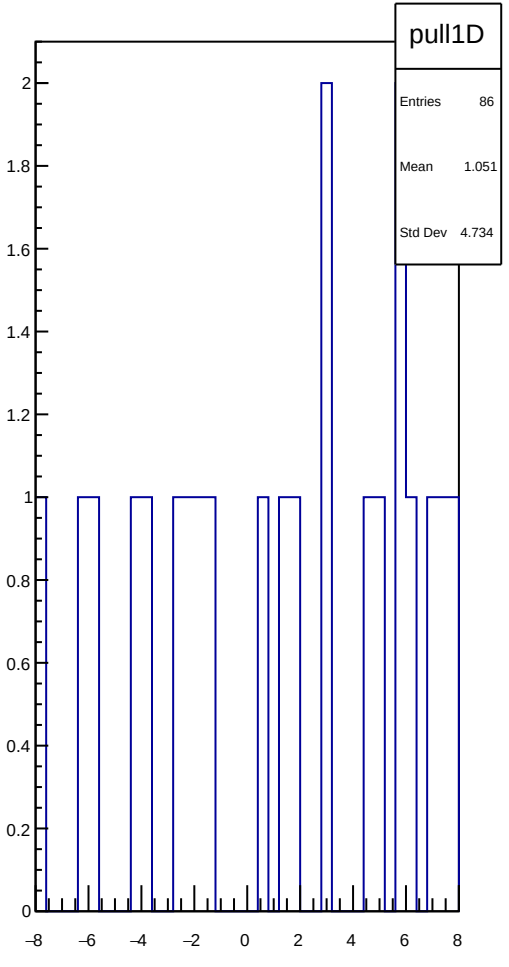

yield_bpm0i05WS_rms vs run
χ² / ndf 4268 / 85
p0 255.7 ± 0.2012
300
280
260
240
220

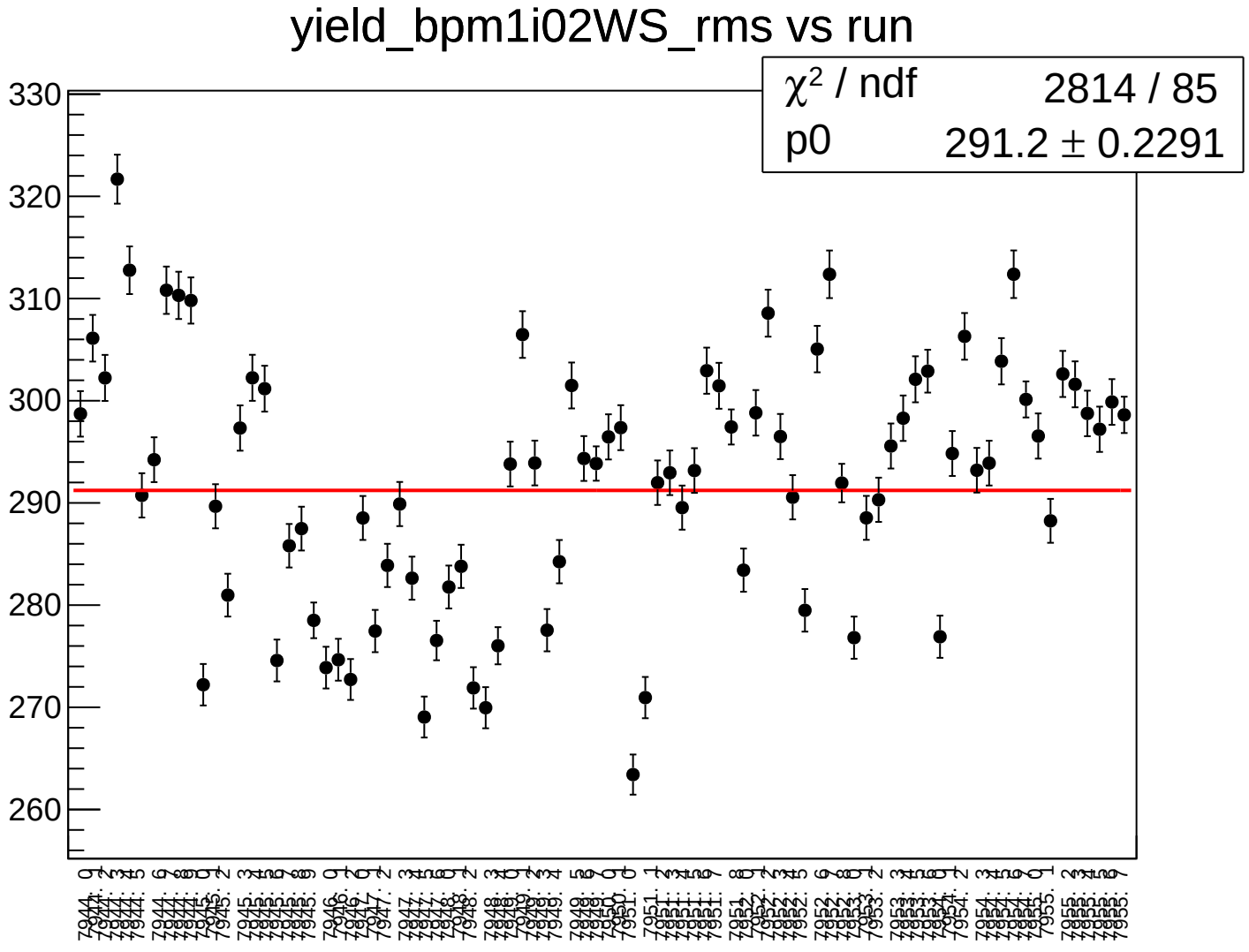

yield_bpm0i07WS_mean vs run
χ² / ndf 1.364e+05 / 85
p0 −1.378e+04 ± 0.02705
−13760
−13770
−13780
−13790
−13800
pull
Entries 86
Mean 6116
Std Dev 0

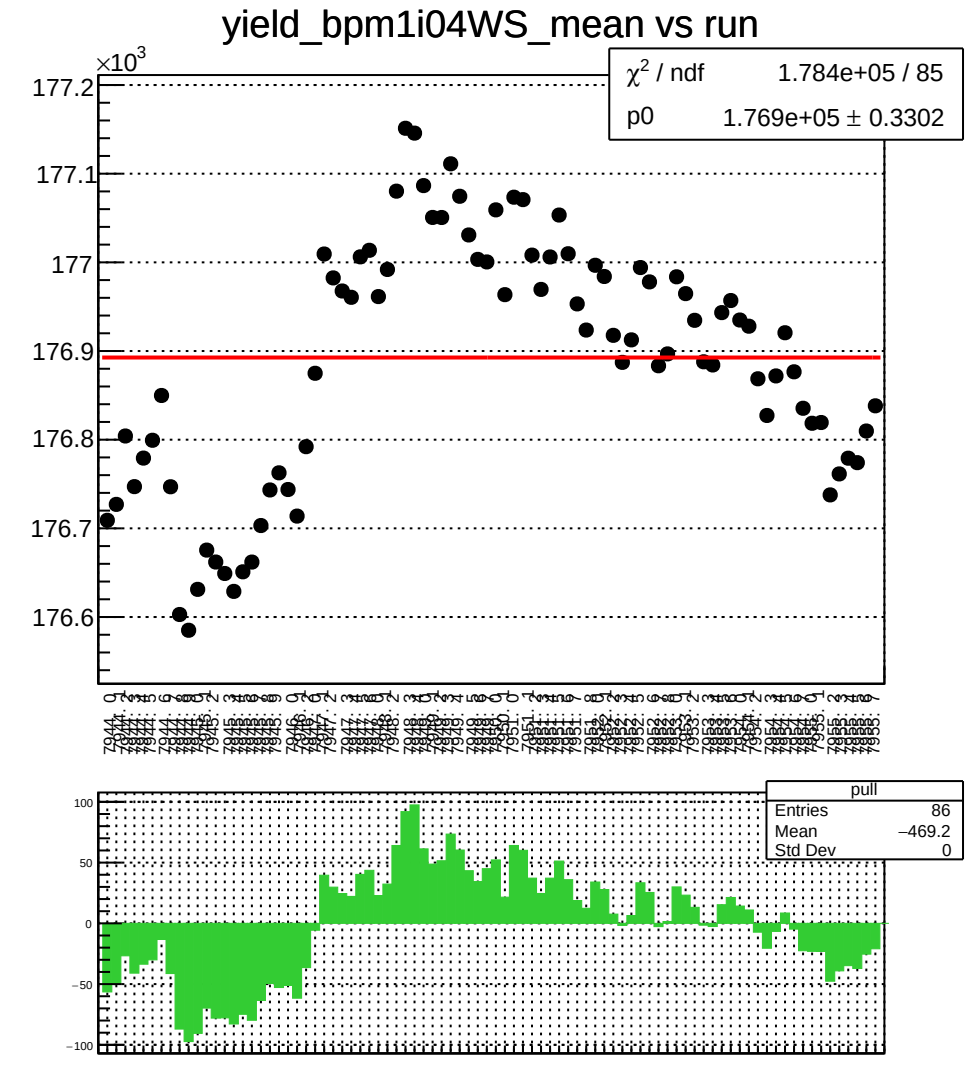

pull1D
Entries 86
Mean −2.185
Std Dev 4.157

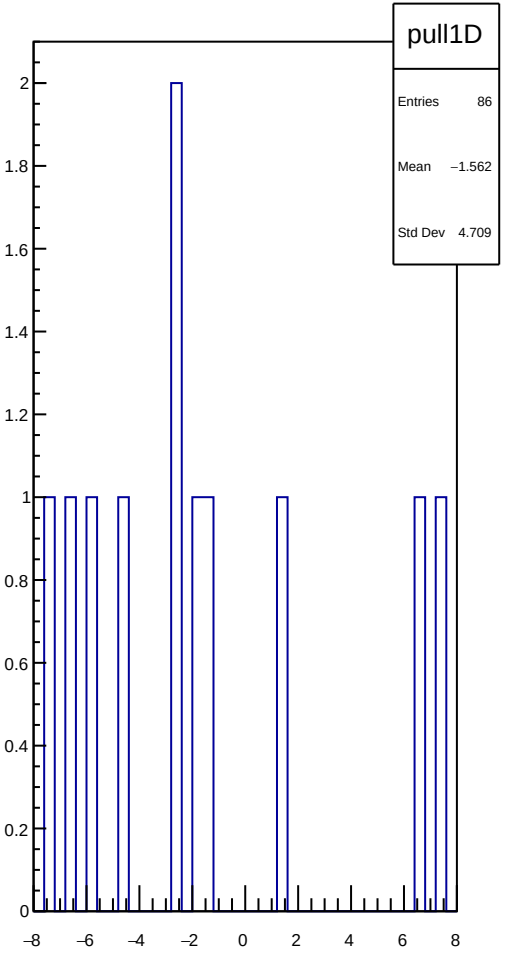

yield_bpm0i07WS_rms vs run
χ² / ndf 2.451e+04 / 85
p0 24.15 ± 0.01913
32
30
28
26
24
22
20
18
16

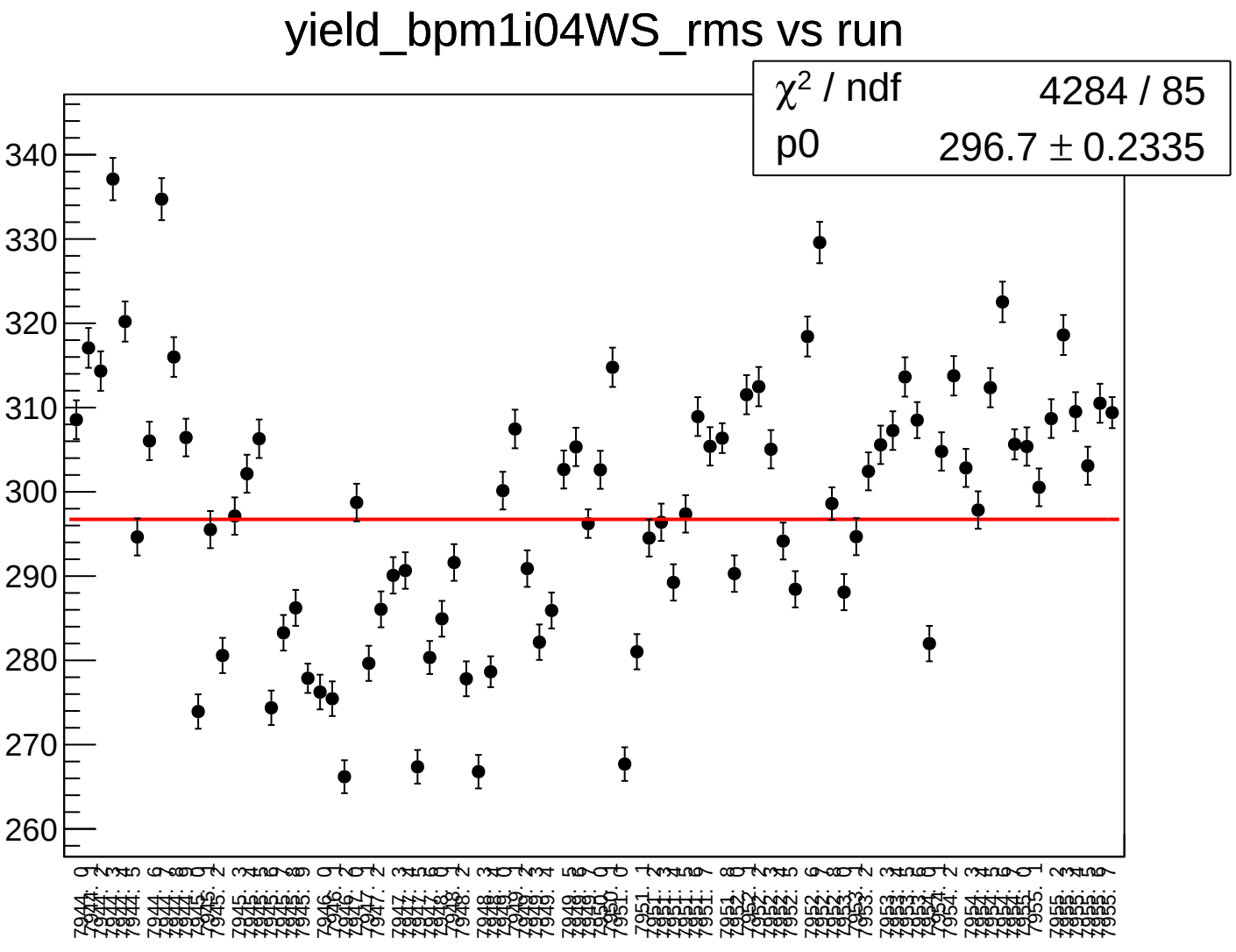

yield_bpm1i02WS_mean vs run
χ² / ndf 5.24e+04 / 85
p0 1.748e+05 ± 0.3239
×10³
174.9
174.85
174.8
174.75
174.7
174.65
174.6
174.55
pull
Entries 86
Mean 1850
Std Dev 0
40
20
0
−20
−40
−60

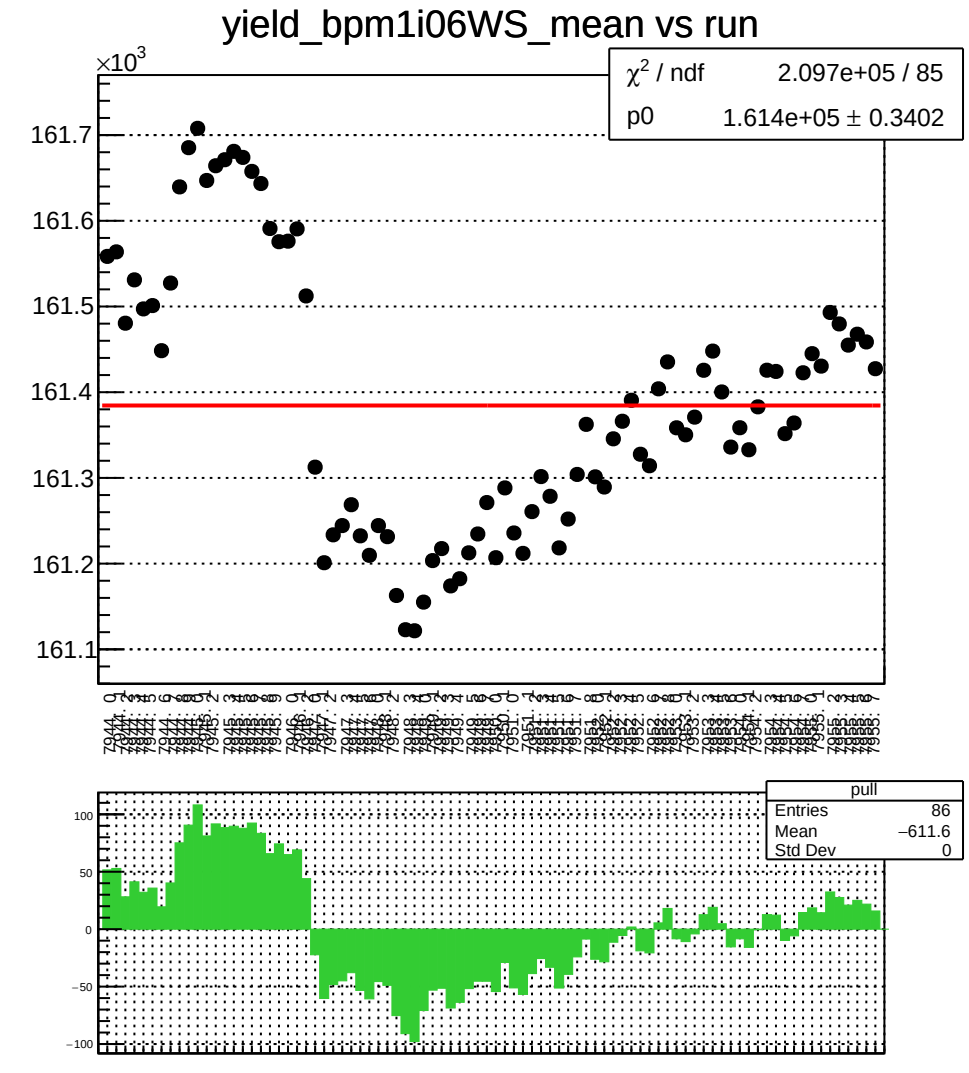

pull1D
Entries 86
Mean 1.051
Std Dev 4.734
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

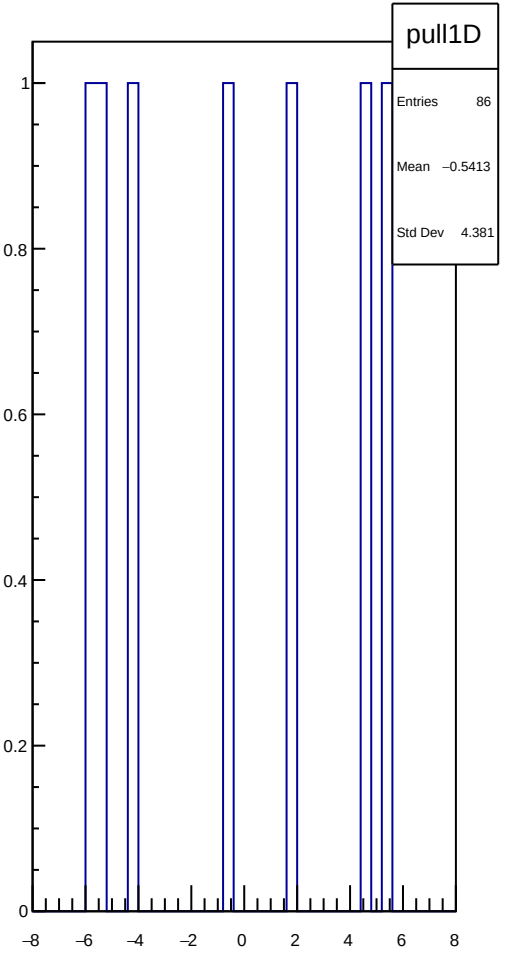

yield_bpm1i02WS_rms vs run
χ² / ndf 2814 / 85
p0 291.2 ± 0.2291
330
320
310
300
290
280
270
260

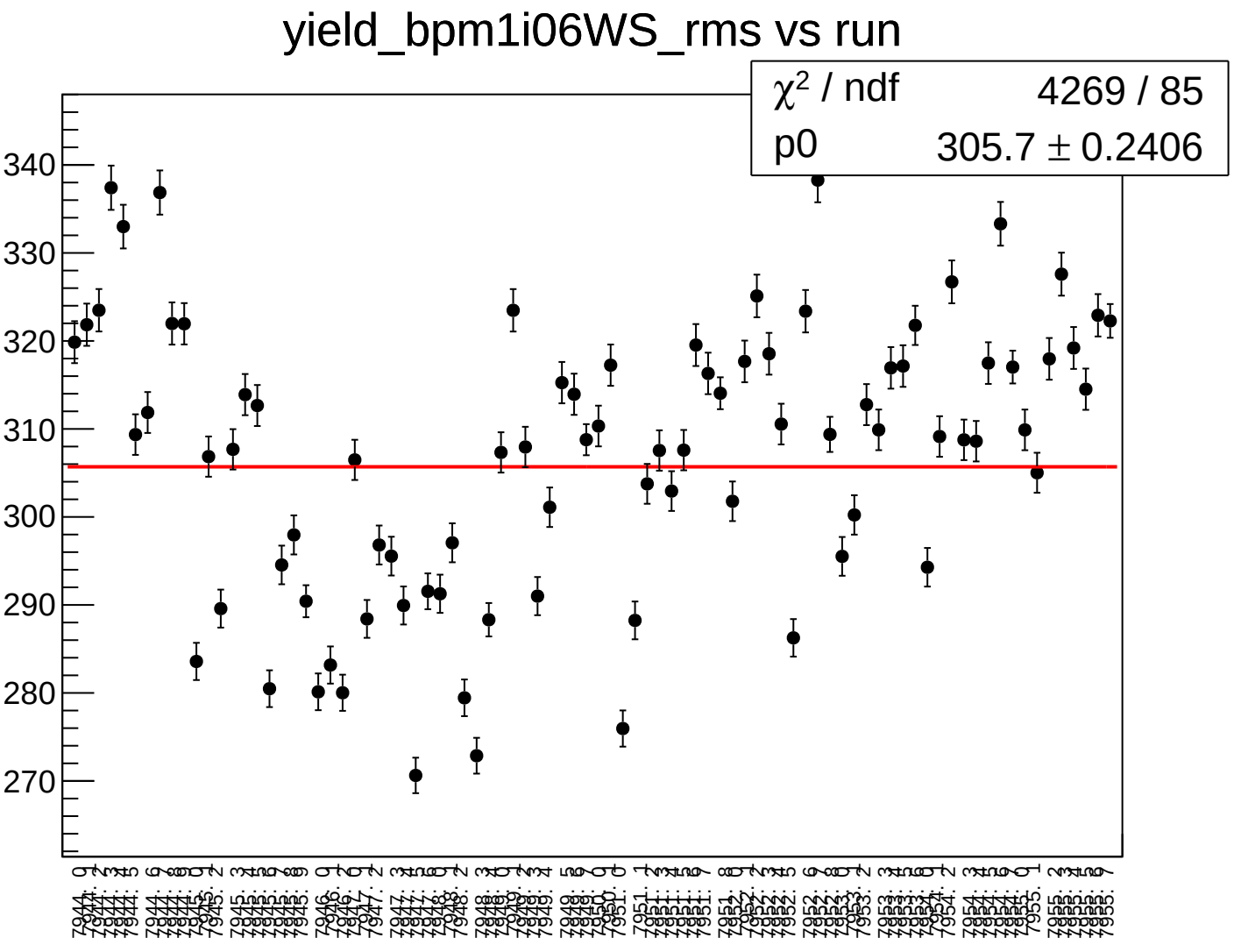

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.784e+05 / 85
p0 1.769e+05 ± 0.3302
177.2
177.1
177
176.9
176.8
176.7
176.6
pull
Entries 86
Mean −469.2
Std Dev 0
100
50
0
−50
−100

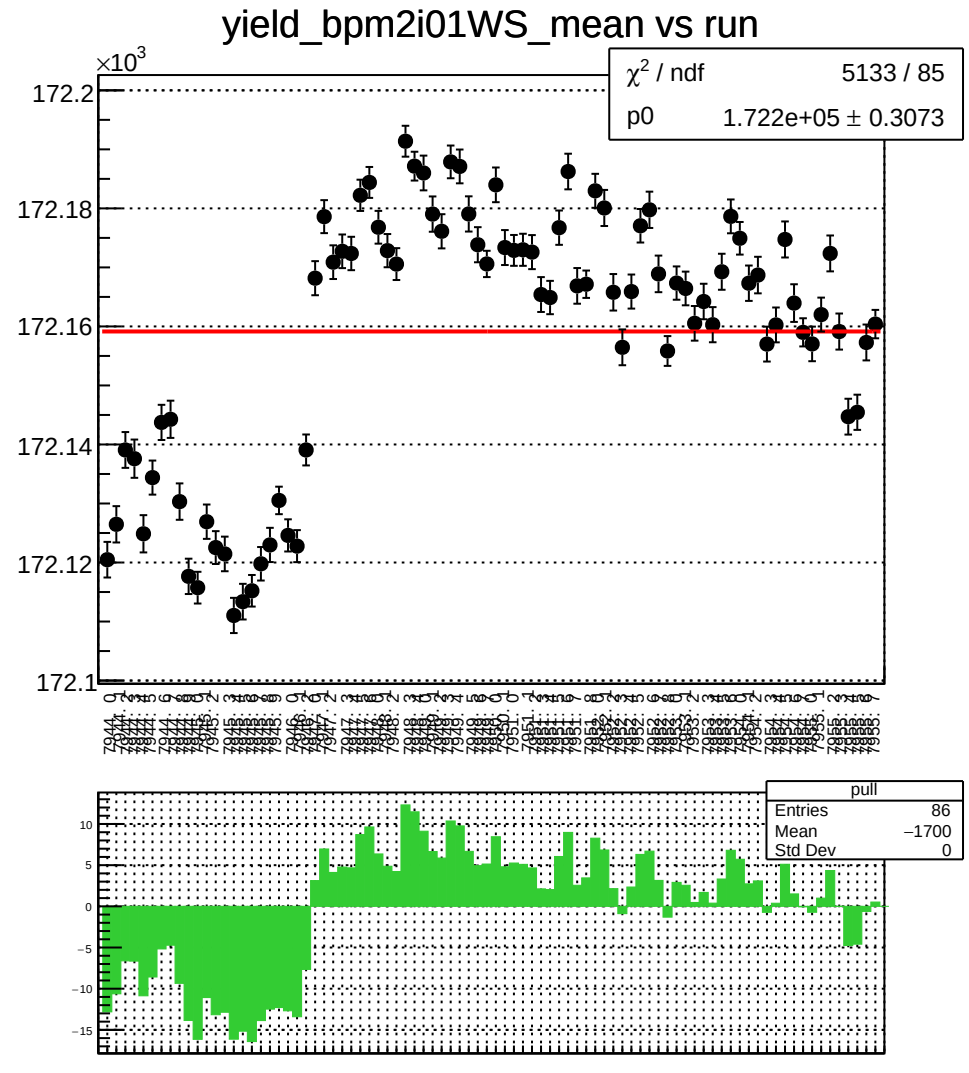

pull1D
Entries 86
Mean −1.562
Std Dev 4.709
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

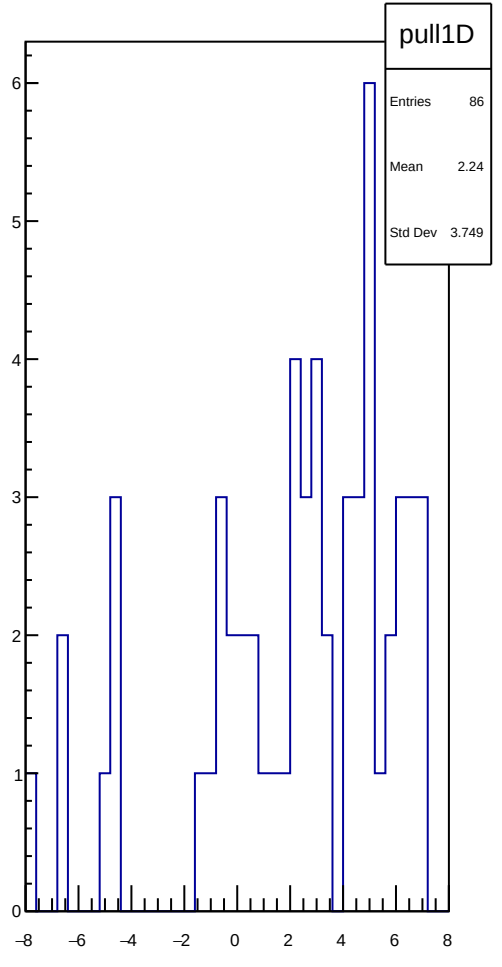

yield_bpm1i04WS_rms vs run
χ² / ndf 4284 / 85
p0 296.7 ± 0.2335
340
330
320
310
300
290
280
270
260

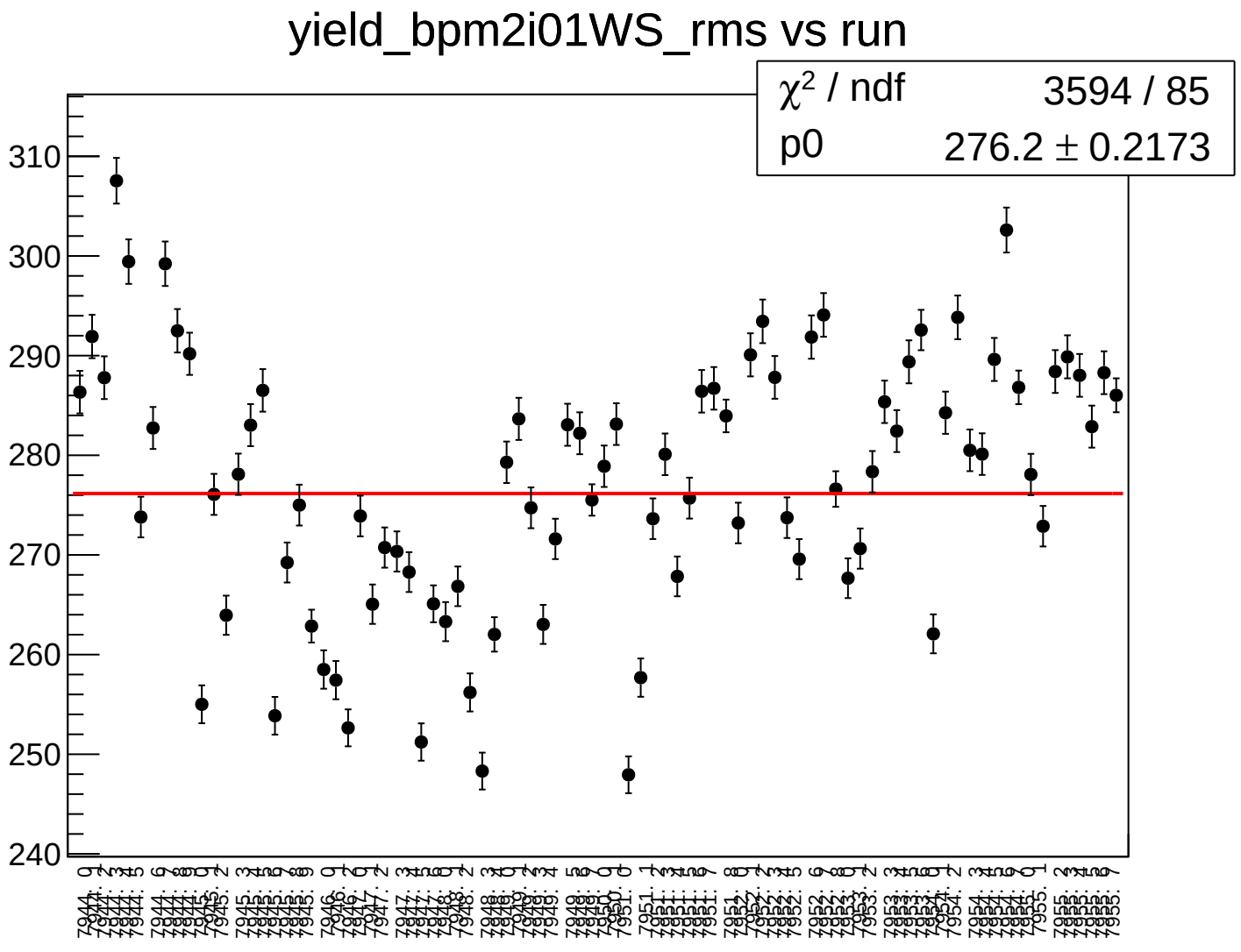

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2.097e+05 / 85
p0 1.614e+05 ± 0.3402
161.7
161.6
161.5
161.4
161.3
161.2
161.1
pull
Entries 86
Mean −611.6
Std Dev 0
100
50
0
−50
−100

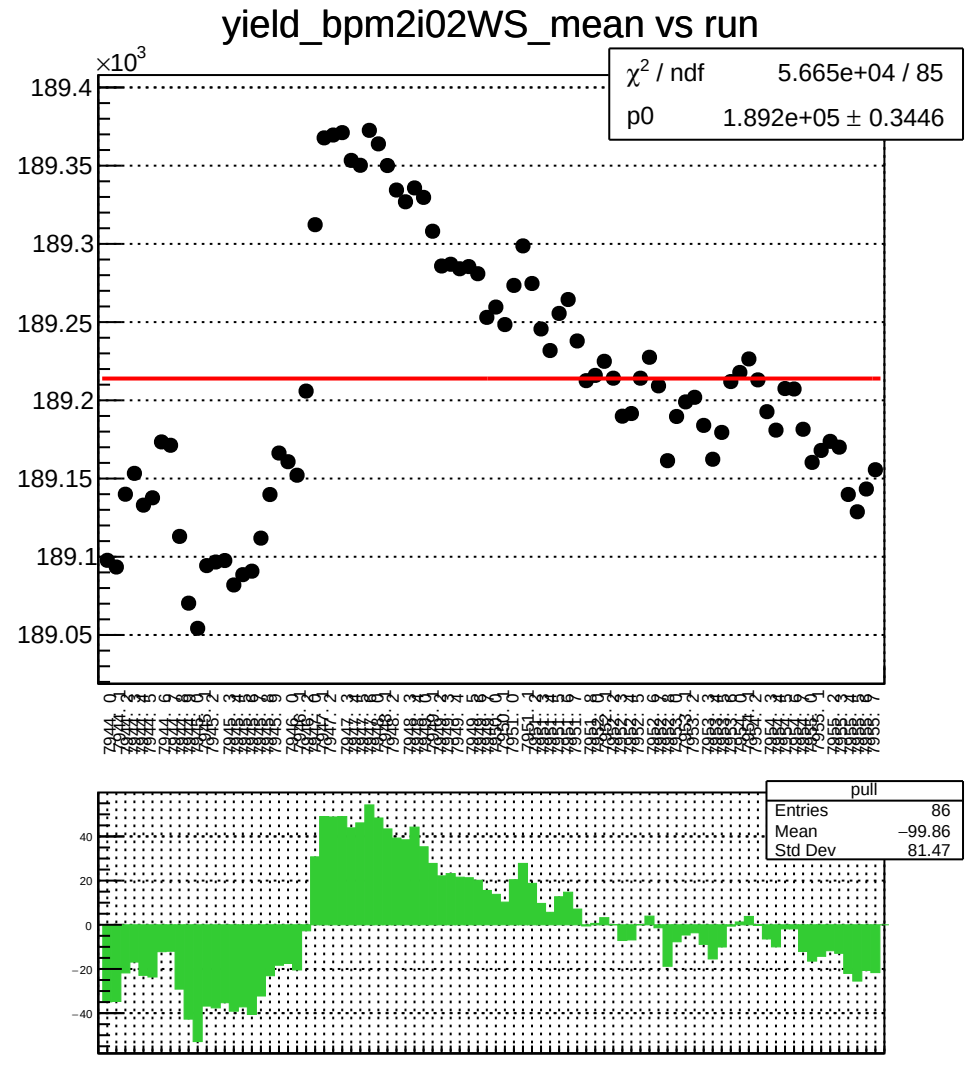

pull1D
Entries 86
Mean −0.5413
Std Dev 4.381
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

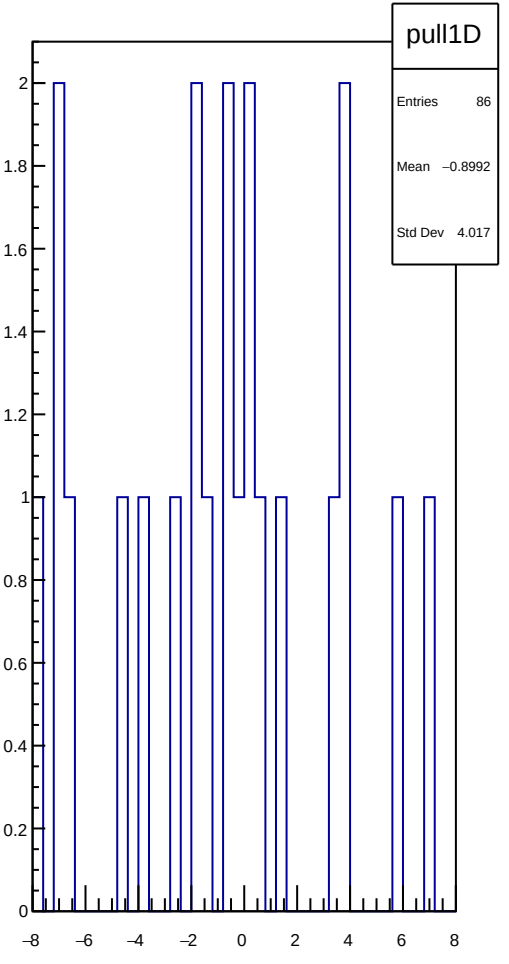

yield_bpm1i06WS_rms vs run
χ² / ndf 4269 / 85
p0 305.7 ± 0.2406
340
330
320
310
300
290
280
270

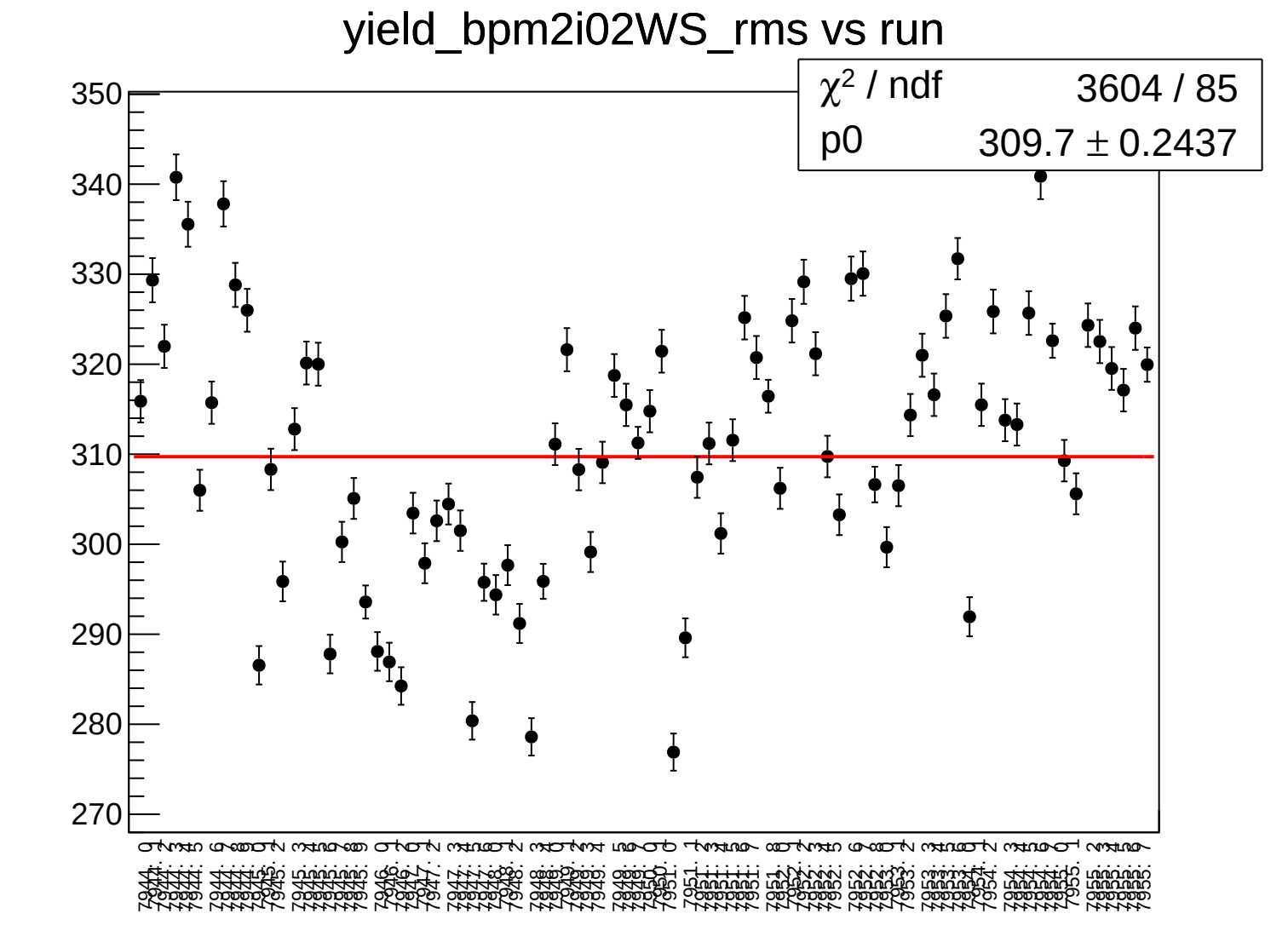

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5133 / 85
p0 1.722e+05 ± 0.3073
172.2
172.18
172.16
172.14
172.12
172.1
pull
Entries 86
Mean −1700
Std Dev 0
10
5
0
−5
−10
−15

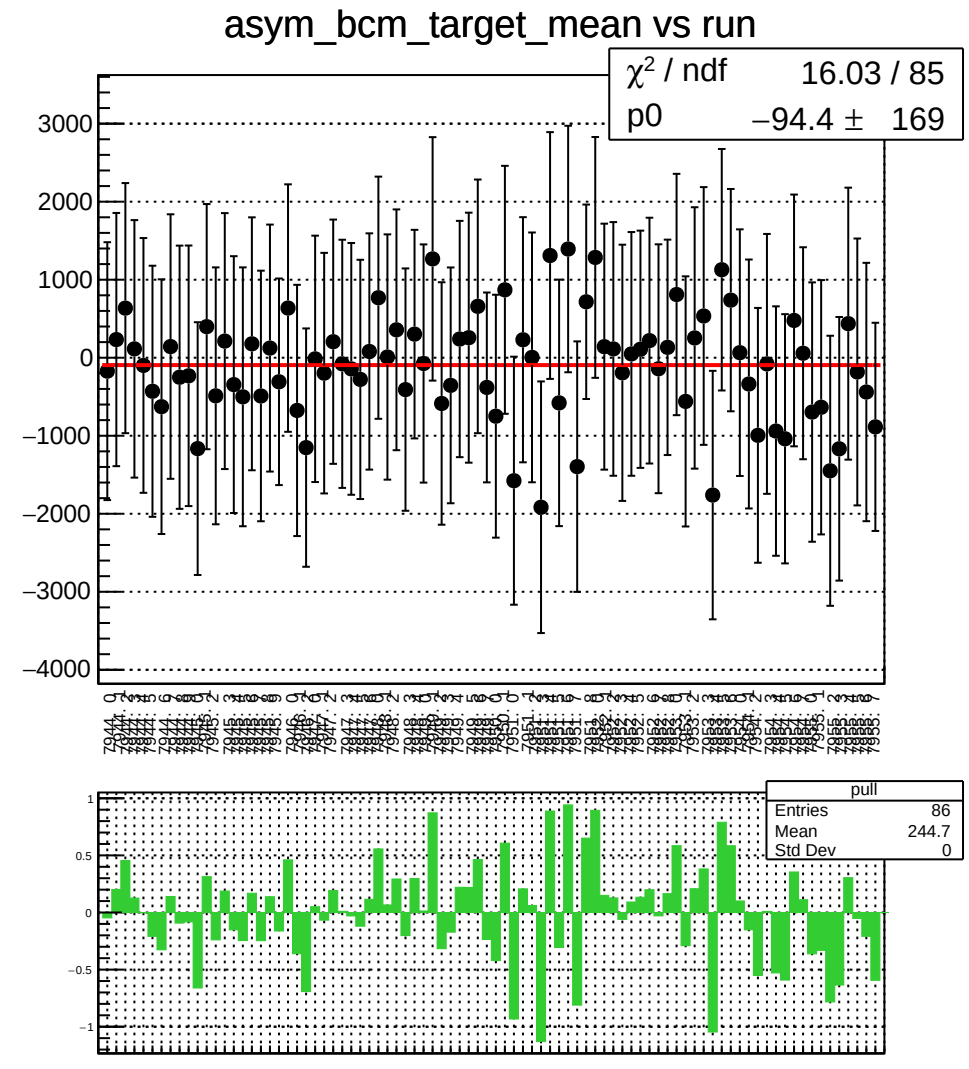

pull1D
Entries 86
Mean 2.24
Std Dev 3.749
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

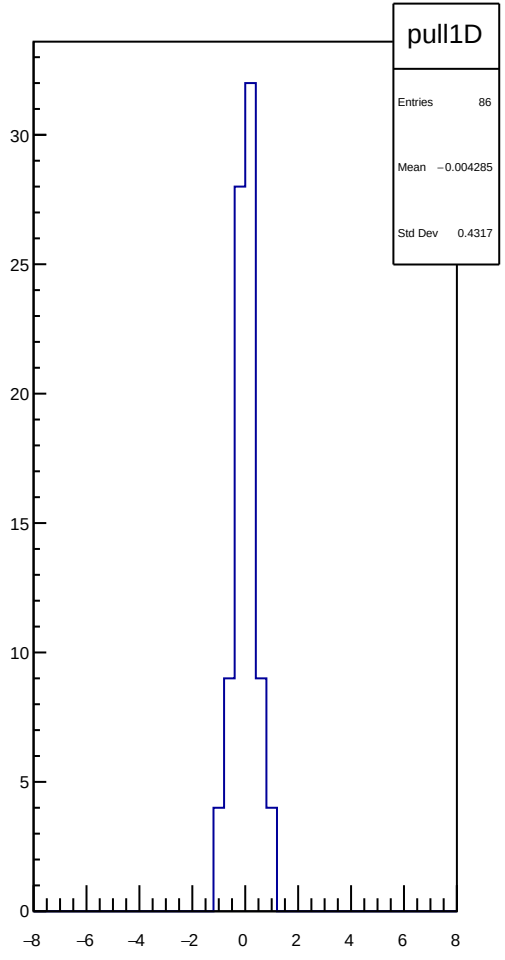

yield_bpm2i01WS_rms vs run
χ² / ndf 3594 / 85
p0 276.2 ± 0.2173
310
300
290
280
270
260
250
240

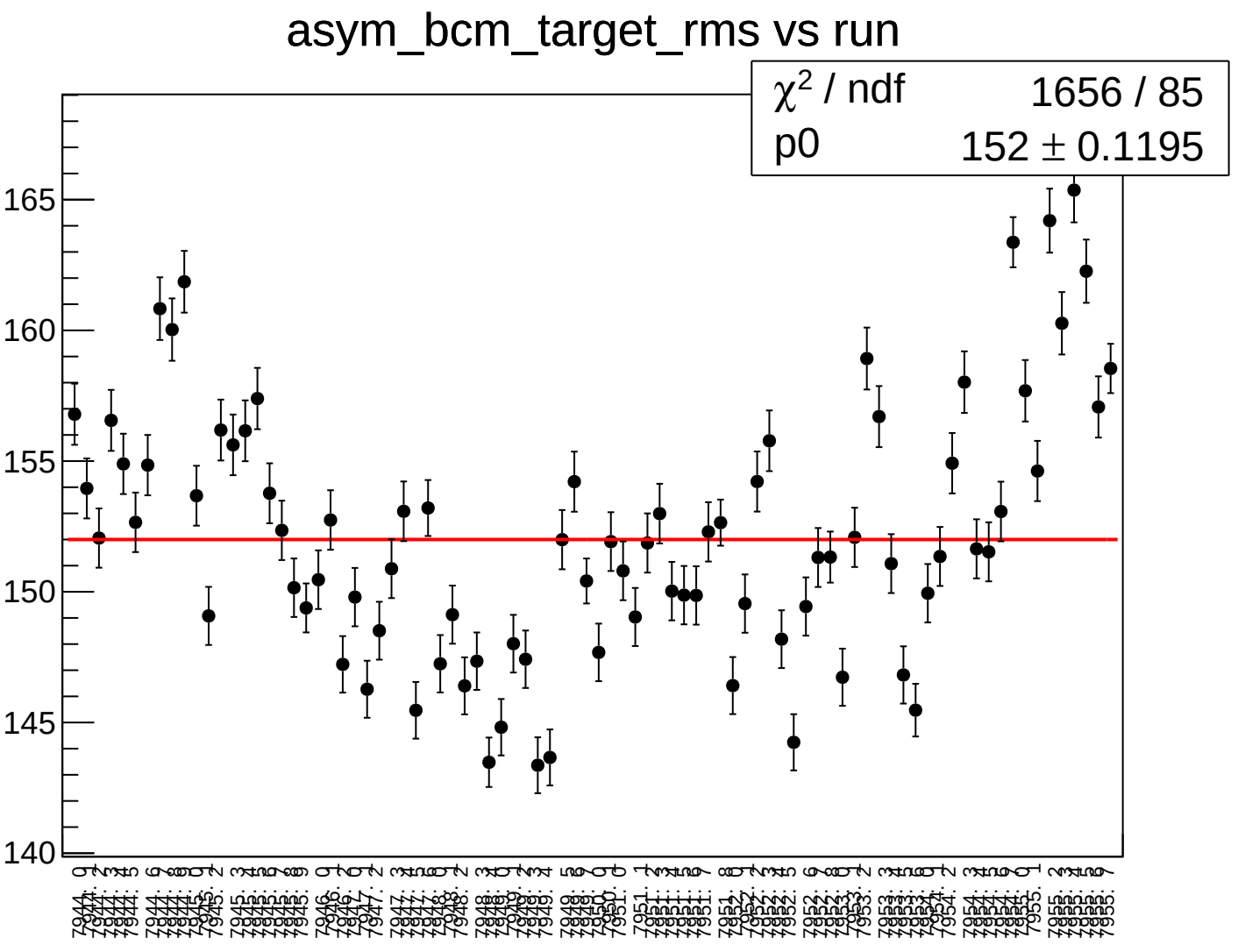

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 5.665e+04 / 85
p0 1.892e+05 ± 0.3446
189.4
189.35
189.3
189.25
189.2
189.15
189.1
189.05
pull
Entries 86
Mean −99.86
Std Dev 81.47
40
20
0
−20
−40

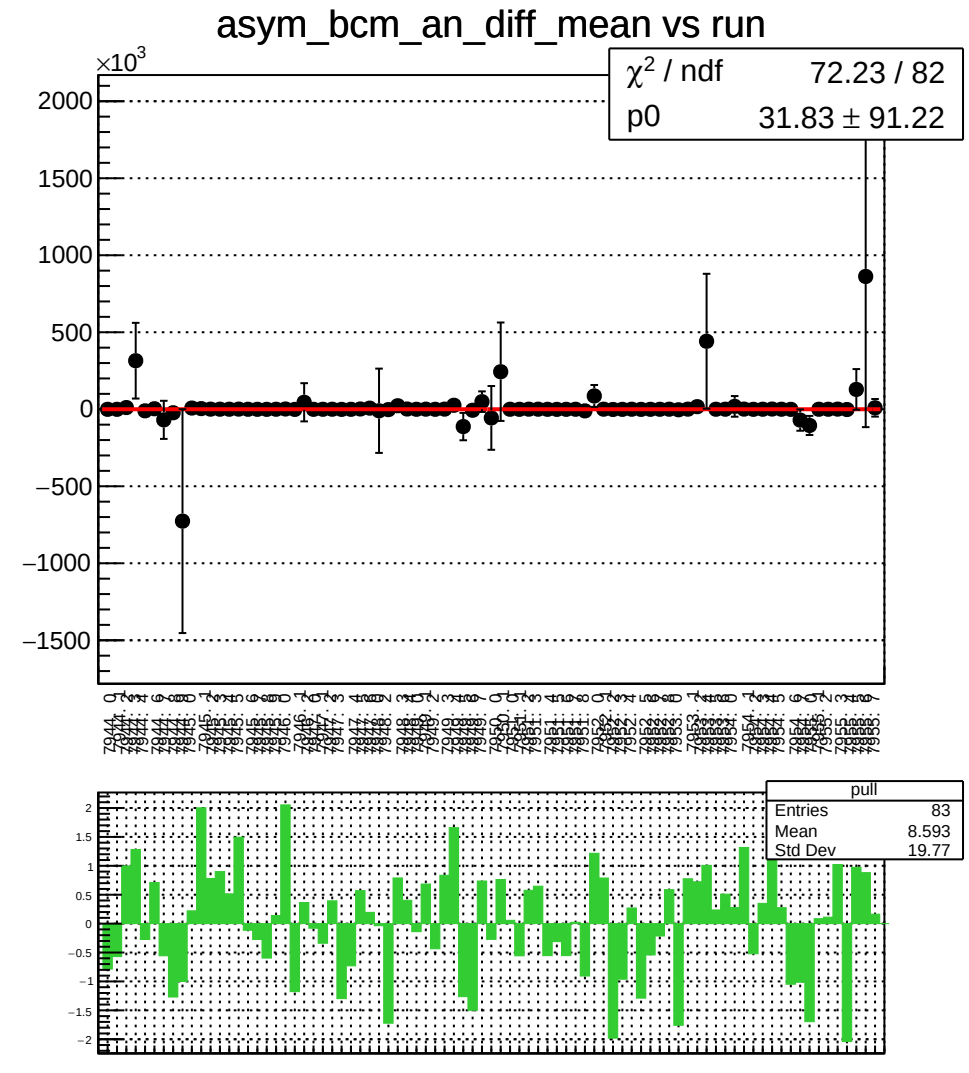

pull1D
Entries 86
Mean −0.8992
Std Dev 4.017
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

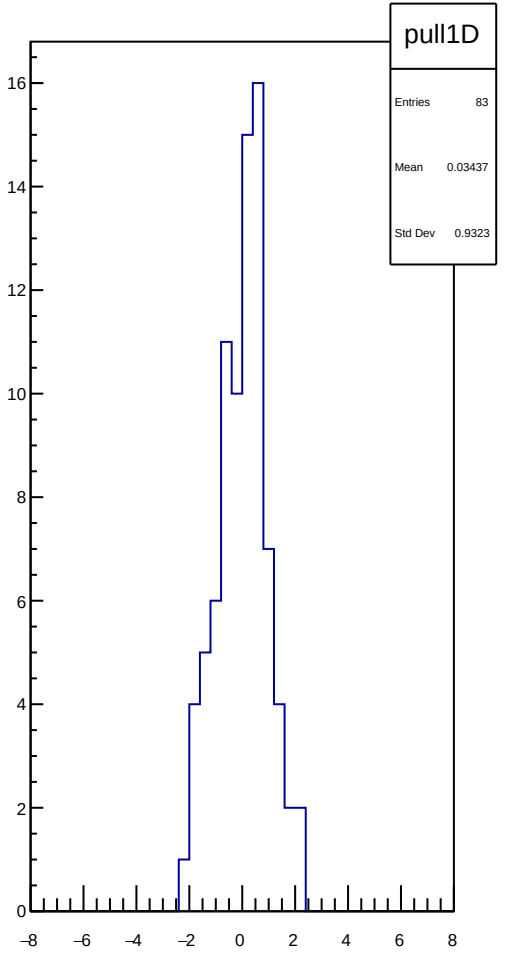

yield_bpm2i02WS_rms vs run
χ² / ndf 3604 / 85
p0 309.7 ± 0.2437
350
340
330
320
310
300
290
280
270

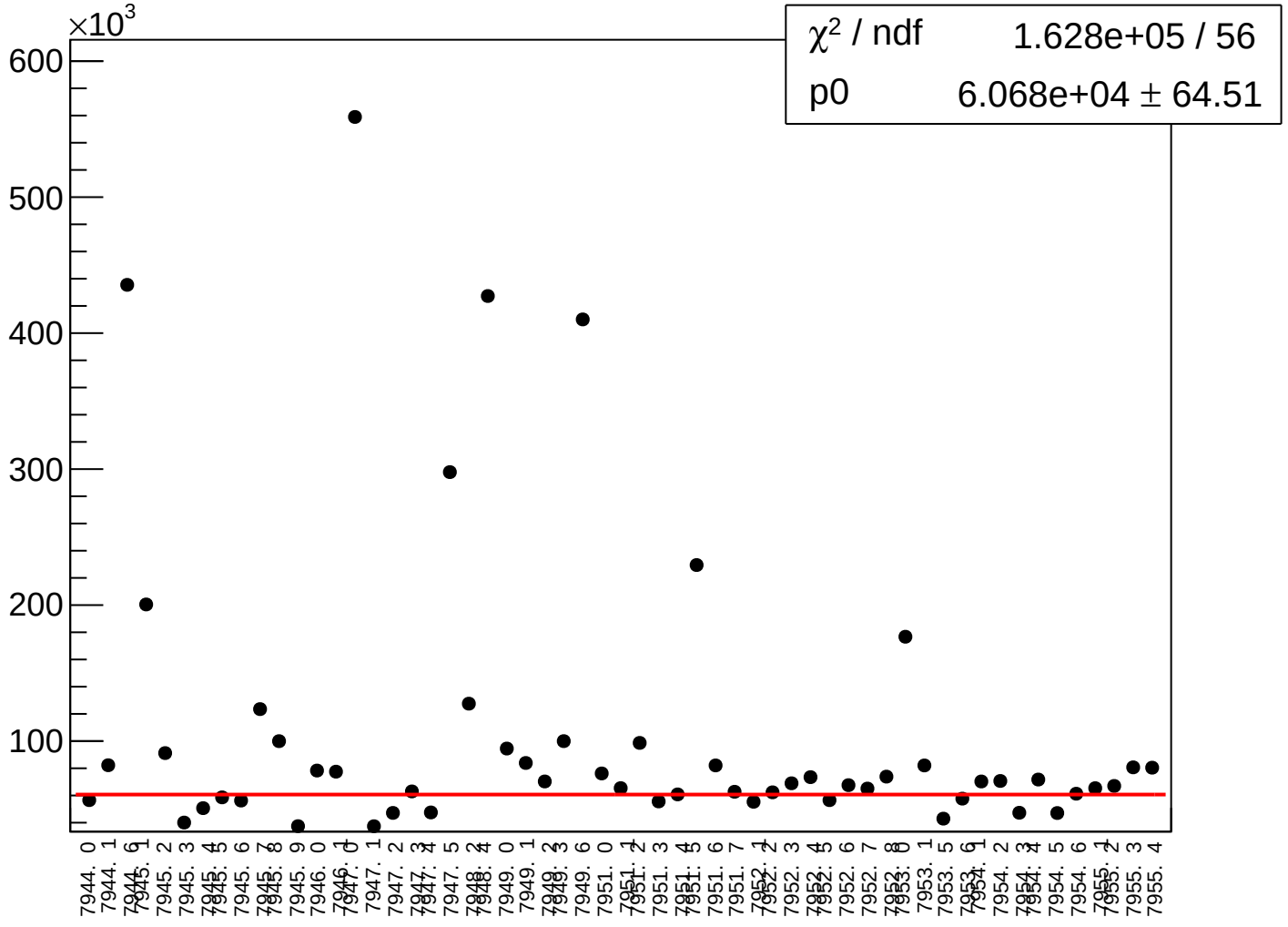

asym_bcm_target_mean vs run
χ² / ndf 16.03 / 85
p0 −94.4 ± 169
pull
Entries 86
Mean 244.7
Std Dev 0

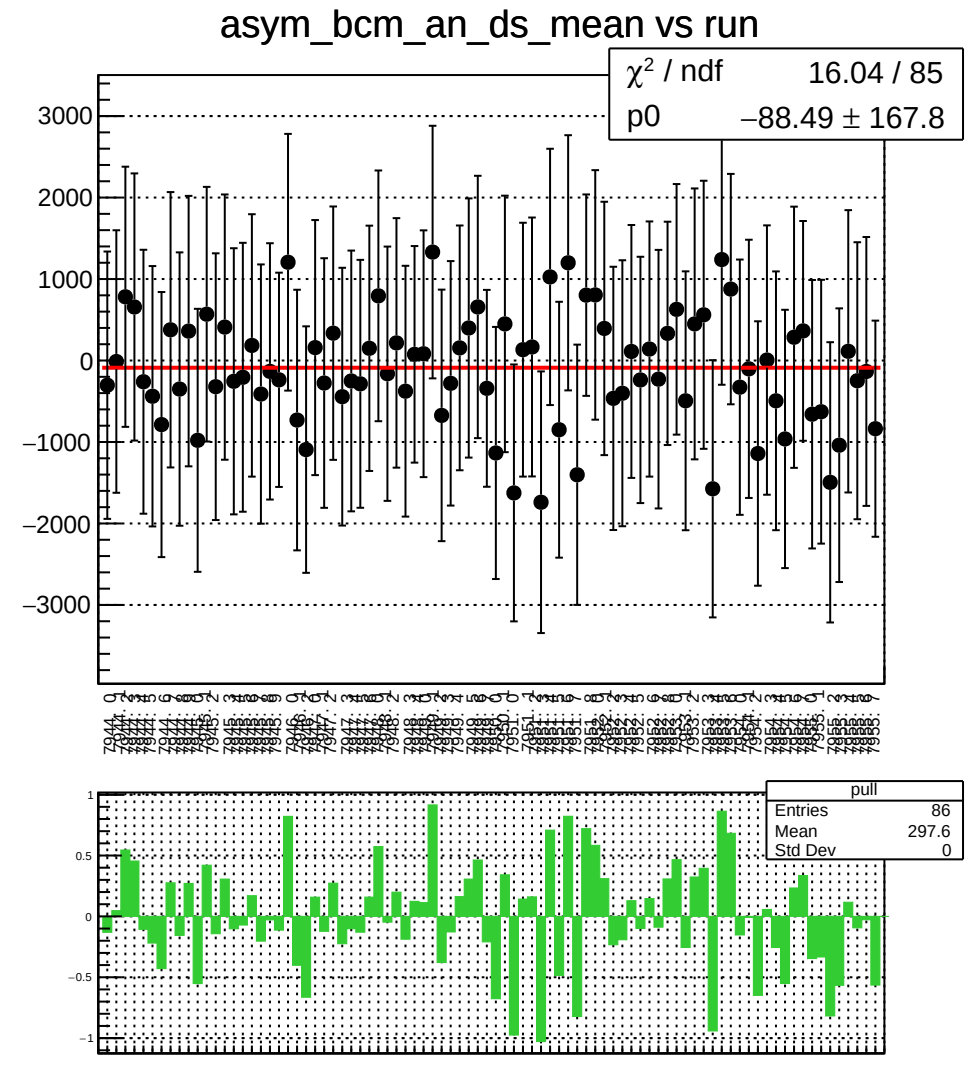

pull1D
Entries 86
Mean −0.004285
Std Dev 0.4317

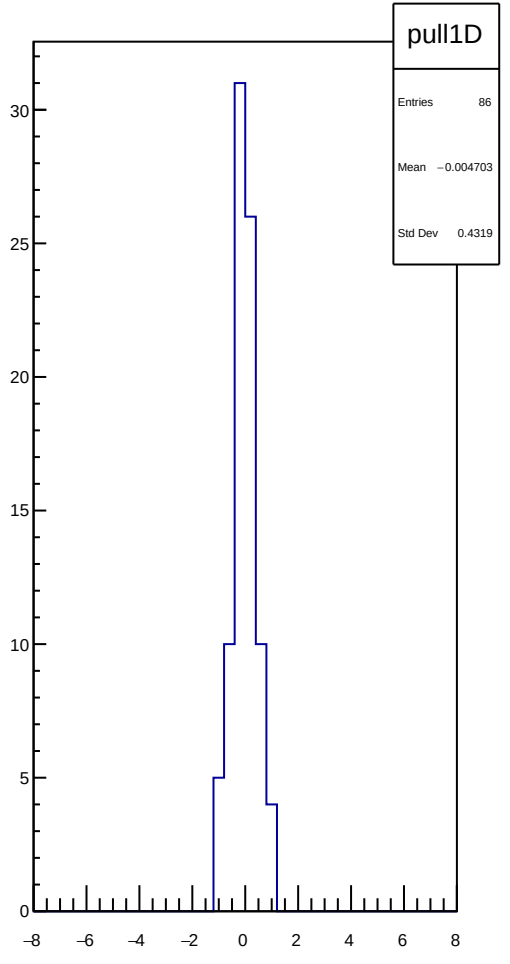

asym_bcm_target_rms vs run
χ² / ndf 1656 / 85
p0 152 ± 0.1195
165
160
155
150
145
140

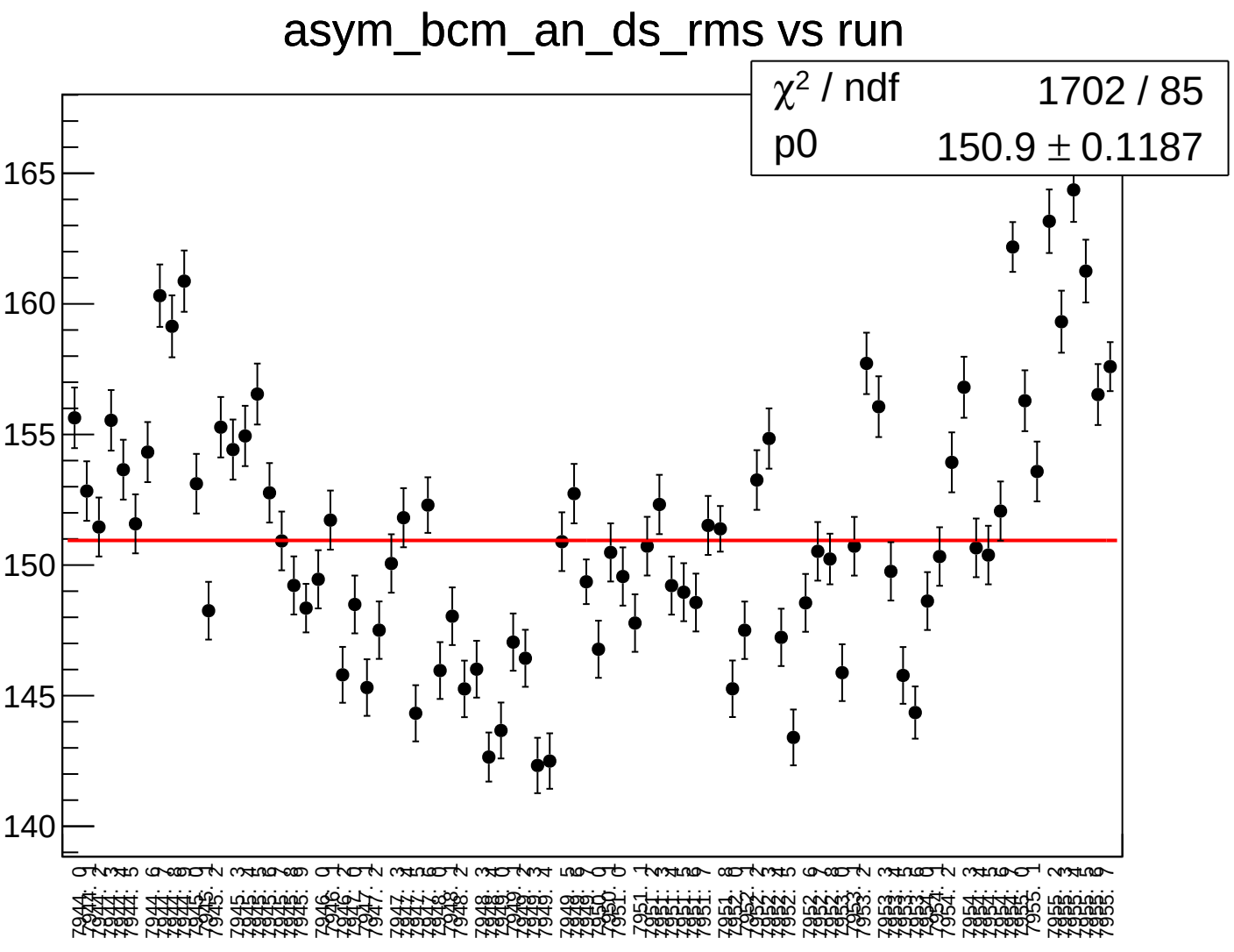

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 72.23 / 82
p0 31.83 ± 91.22
pull
Entries 83
Mean 8.593
Std Dev 19.77

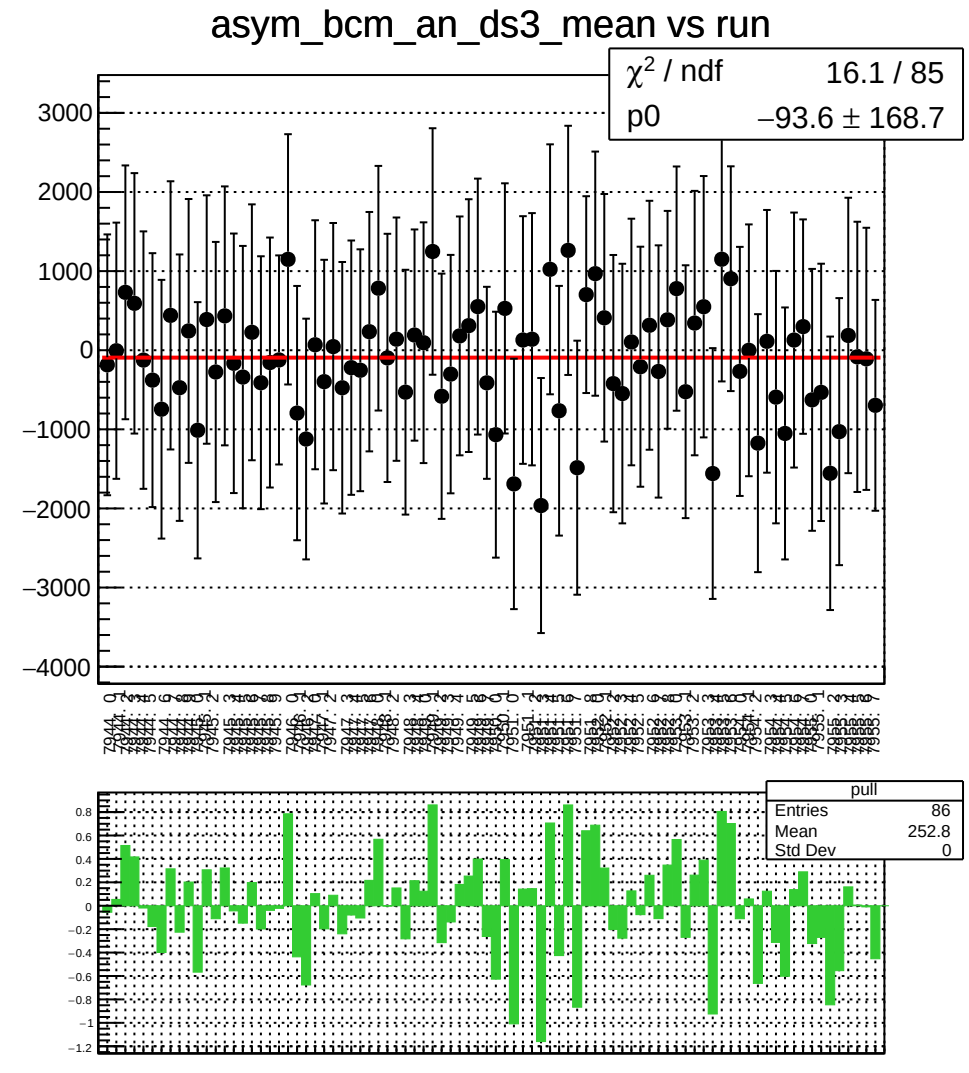

pull1D
Entries 83
Mean 0.03437
Std Dev 0.9323

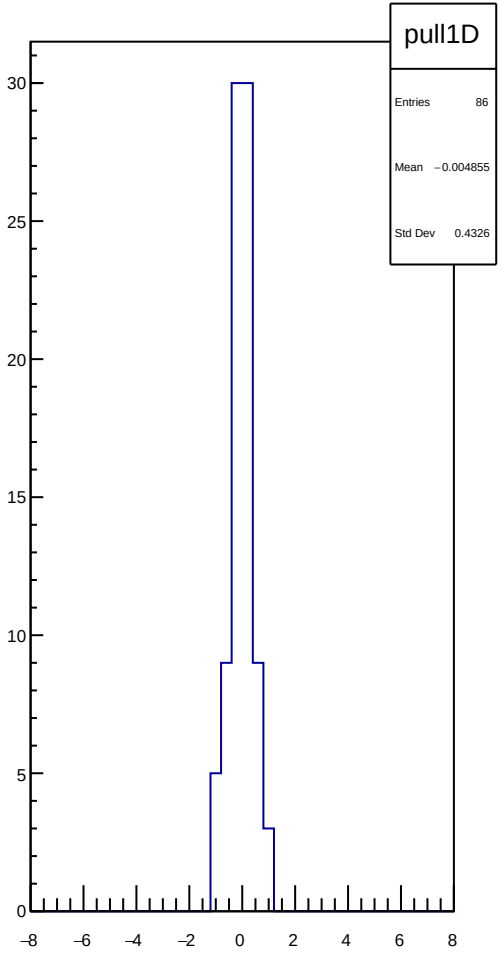

asym_bcm_an_diff_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 1.628e+05 / 56
p0 6.068e+04 ± 64.51

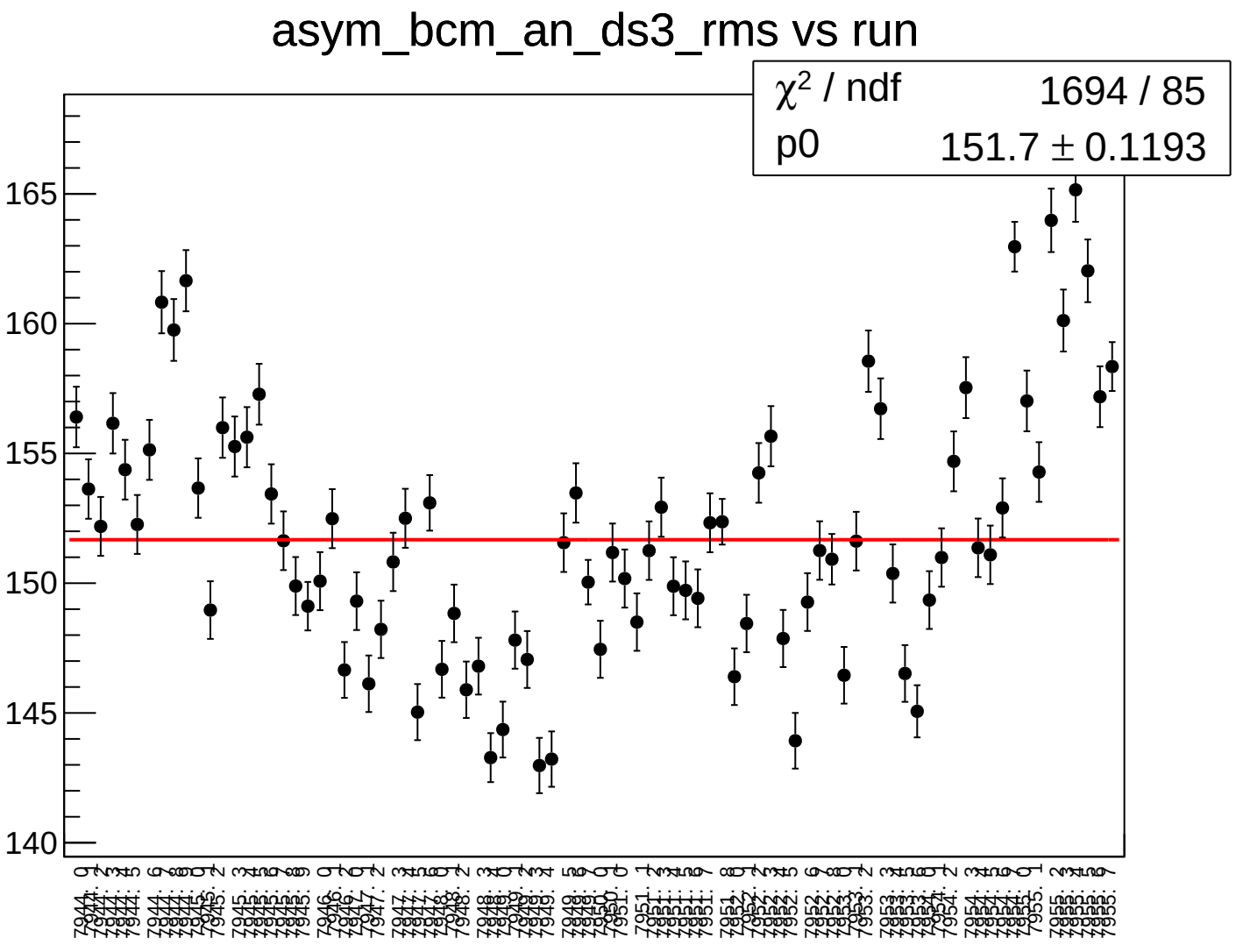

asym_bcm_an_ds_mean vs run
χ² / ndf 16.04 / 85
p0 −88.49 ± 167.8
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 297.6
Std Dev 0
1
0.5
0
−0.5
−1

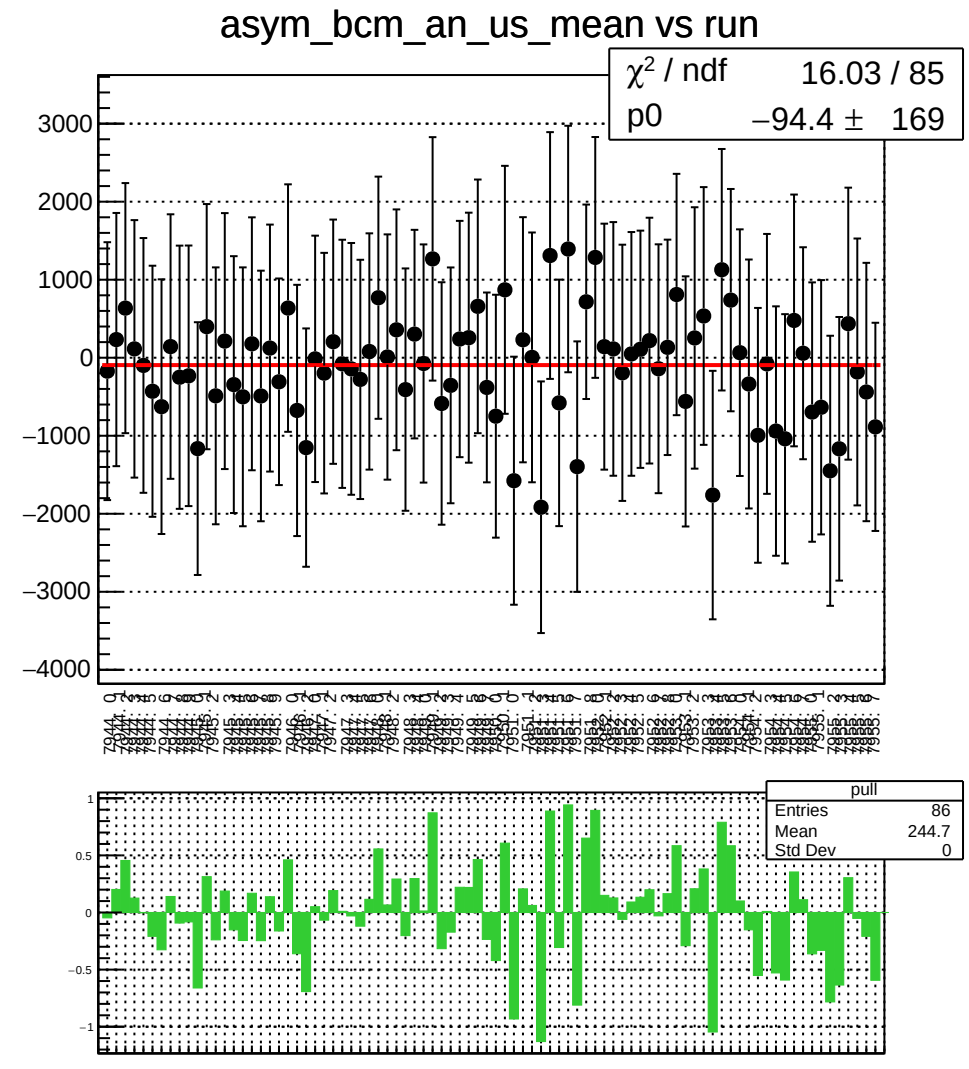

pull1D
Entries 86
Mean −0.004703
Std Dev 0.4319
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

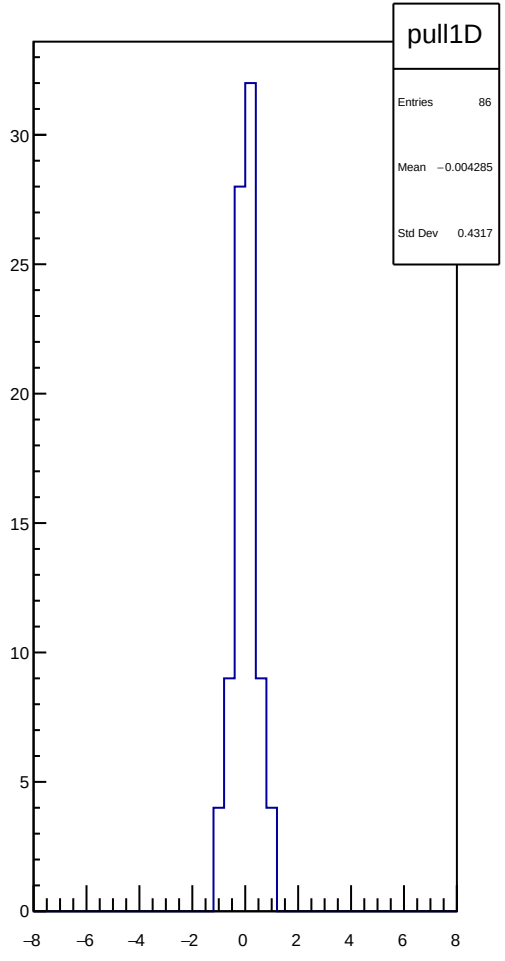

asym_bcm_an_ds_rms vs run
χ² / ndf 1702 / 85
p0 150.9 ± 0.1187
165
160
155
150
145
140

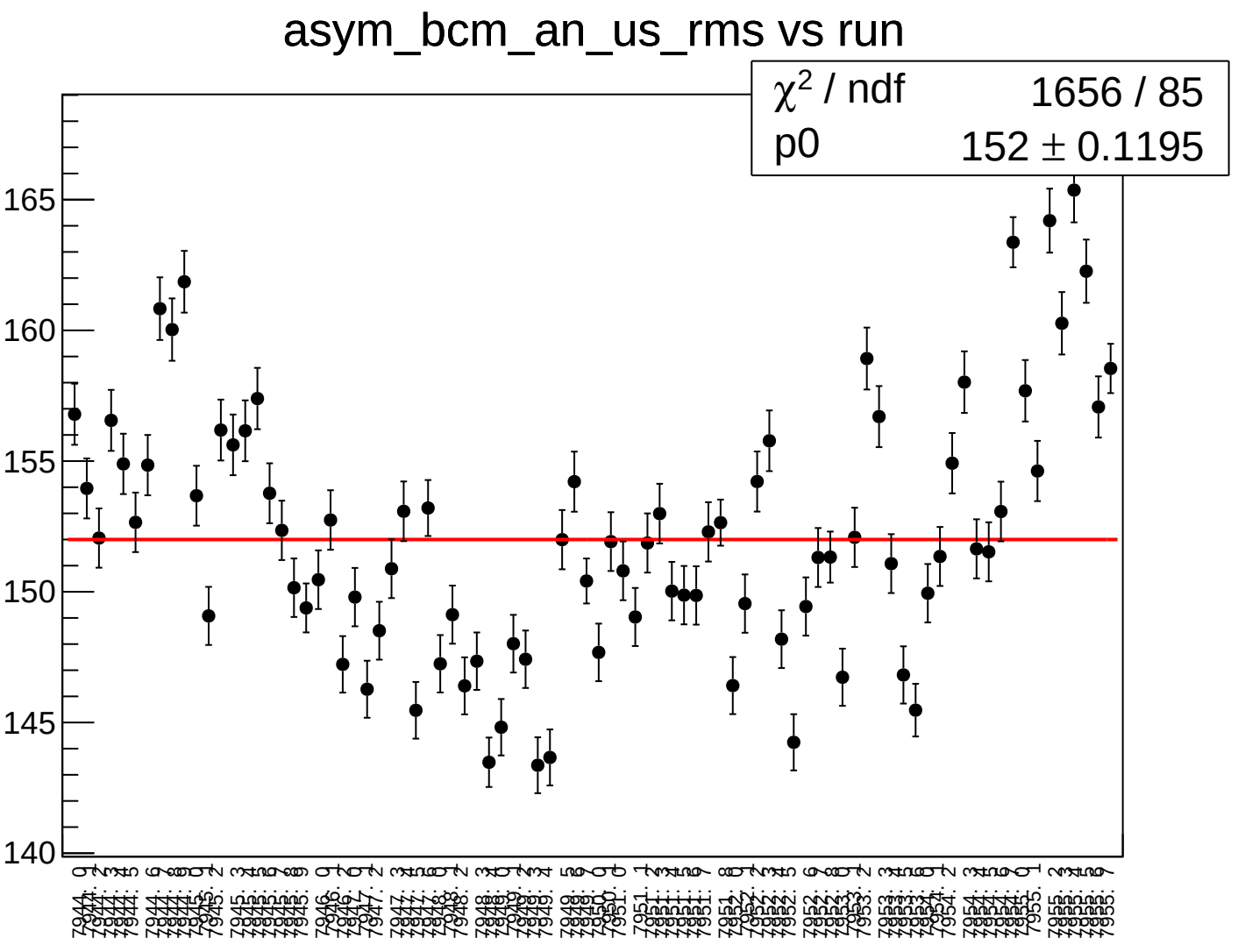

asym_bcm_an_ds3_mean vs run
χ² / ndf 16.1 / 85
p0 −93.6 ± 168.7
pull
Entries 86
Mean 252.8
Std Dev 0

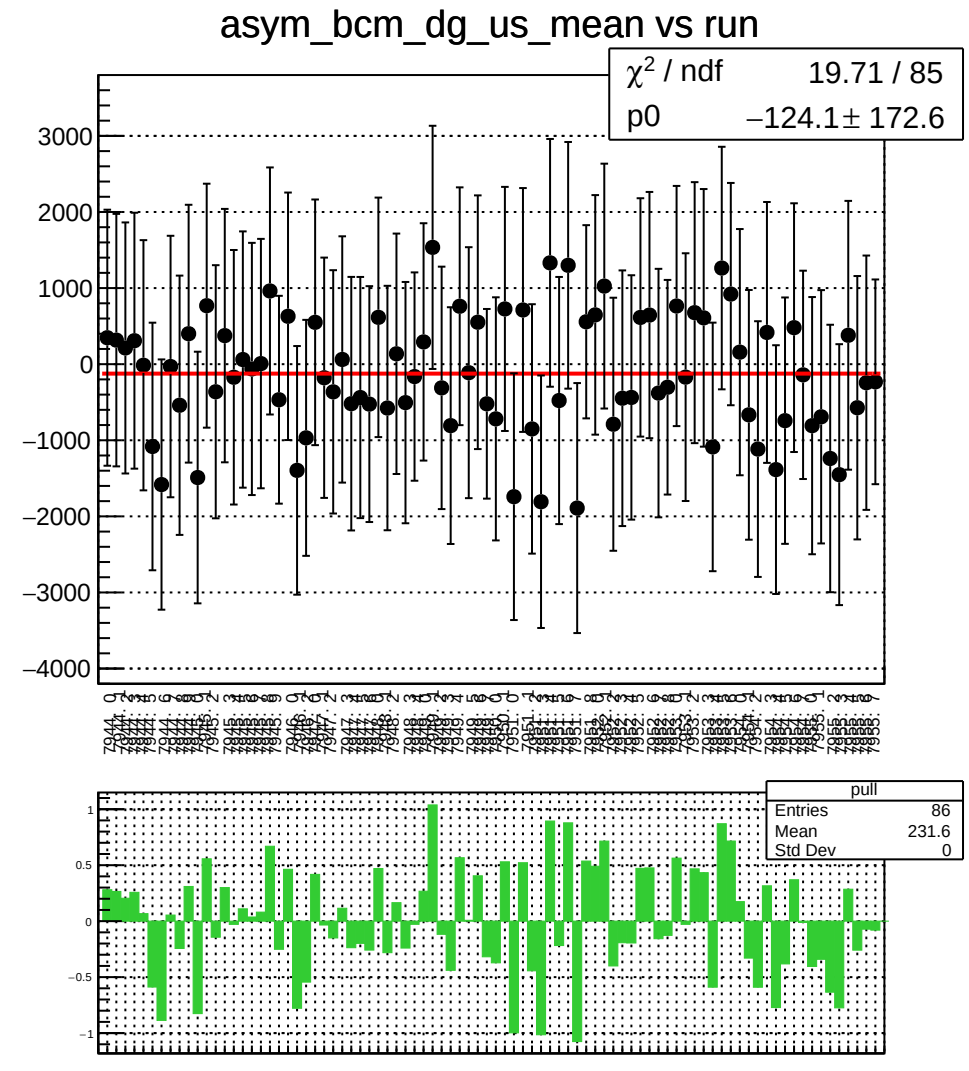

pull1D
Entries 86
Mean −0.004855
Std Dev 0.4326

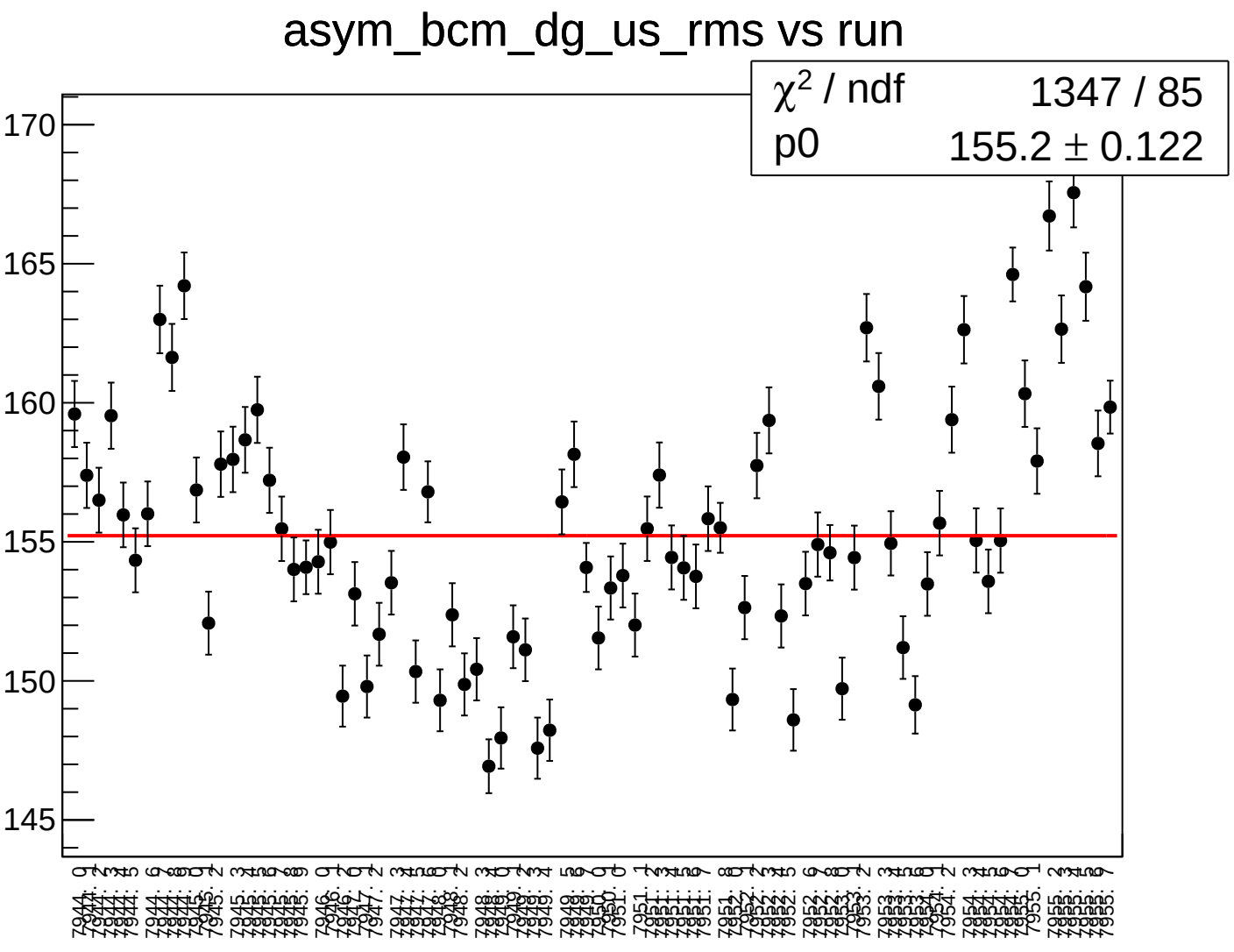

asym_bcm_an_ds3_rms vs run
χ² / ndf 1694 / 85
p0 151.7 ± 0.1193
165
160
155
150
145
140

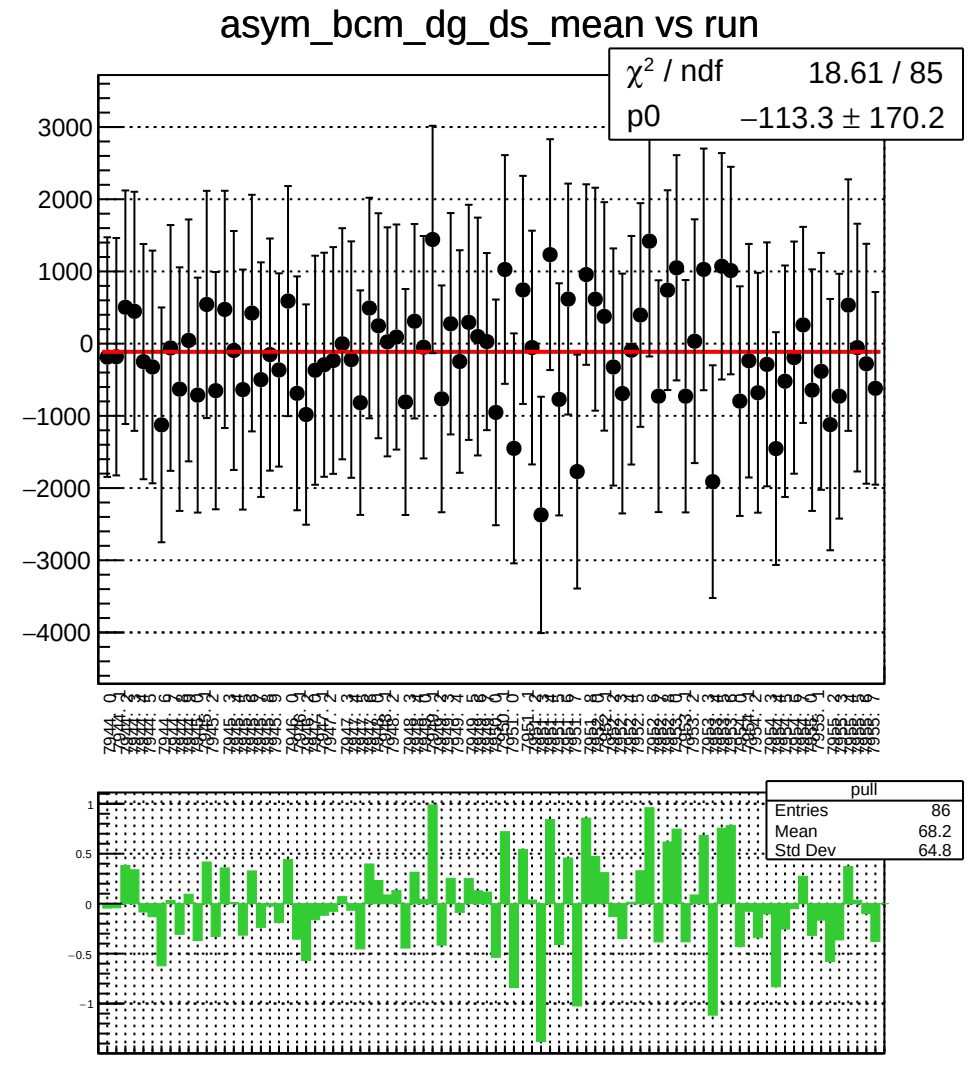

asym_bcm_an_us_mean vs run
χ² / ndf 16.03 / 85
p0 −94.4 ± 169
pull
Entries 86
Mean 244.7
Std Dev 0

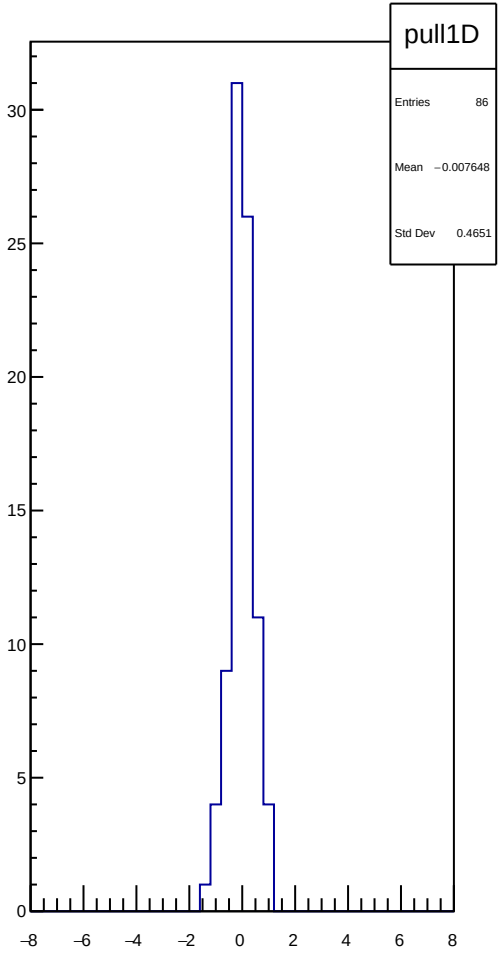

pull1D
Entries 86
Mean −0.004285
Std Dev 0.4317

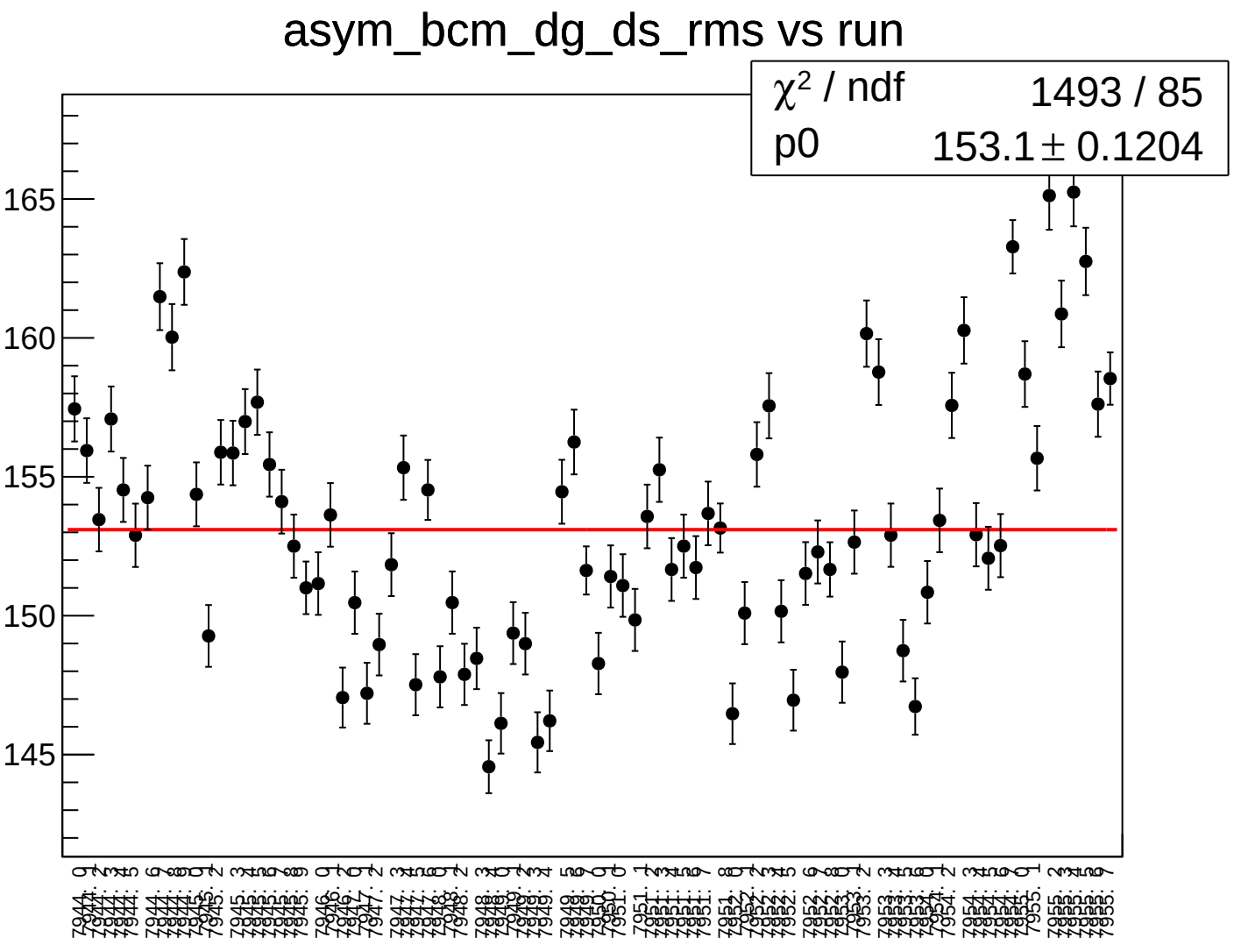

asym_bcm_an_us_rms vs run
χ² / ndf 1656 / 85
p0 152 ± 0.1195
165
160
155
150
145
140

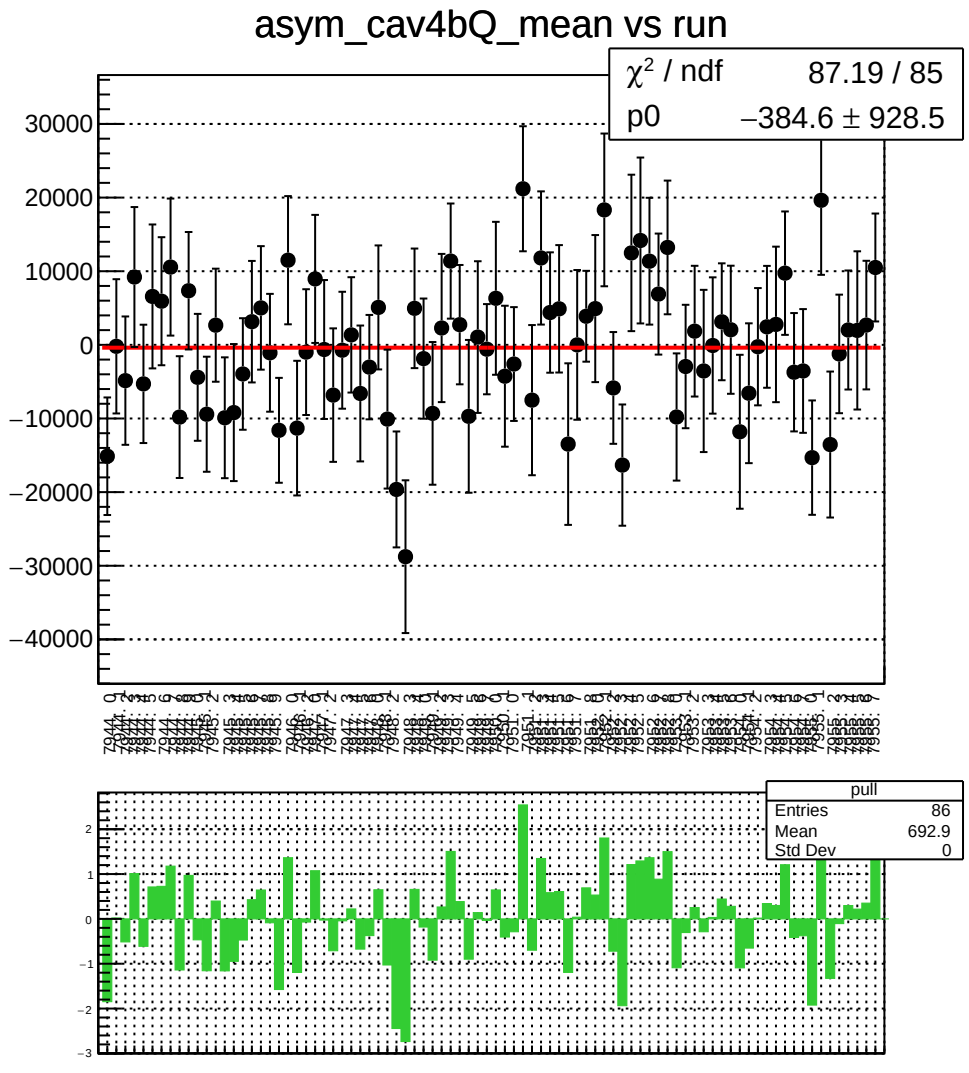

asym_bcm_dg_us_mean vs run
χ² / ndf 19.71 / 85
p0 −124.1± 172.6
pull
Entries 86
Mean 231.6
Std Dev 0
pull1D
Entries 86
Mean −0.002795
Std Dev 0.4787

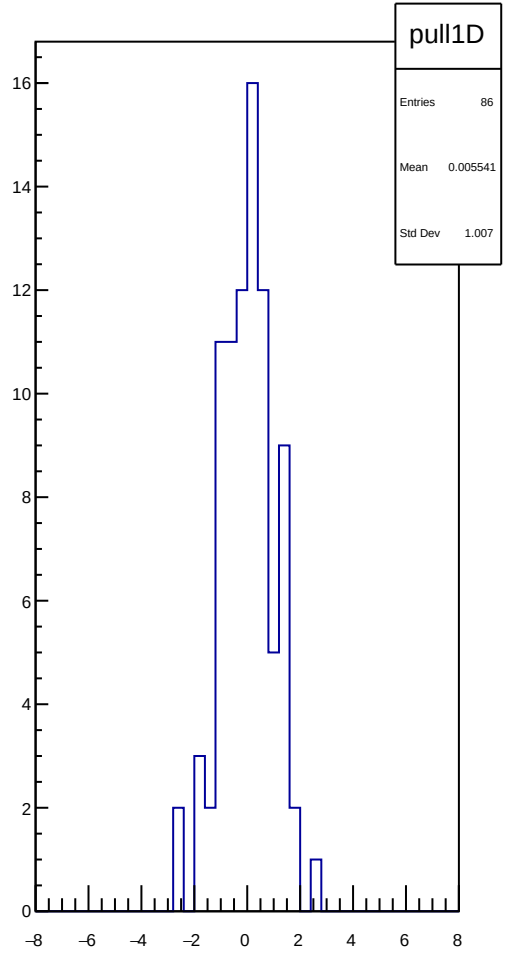

asym_bcm_dg_us_rms vs run
χ^2 / ndf 1347 / 85
p0 155.2 ± 0.122
170
165
160
155
150
145

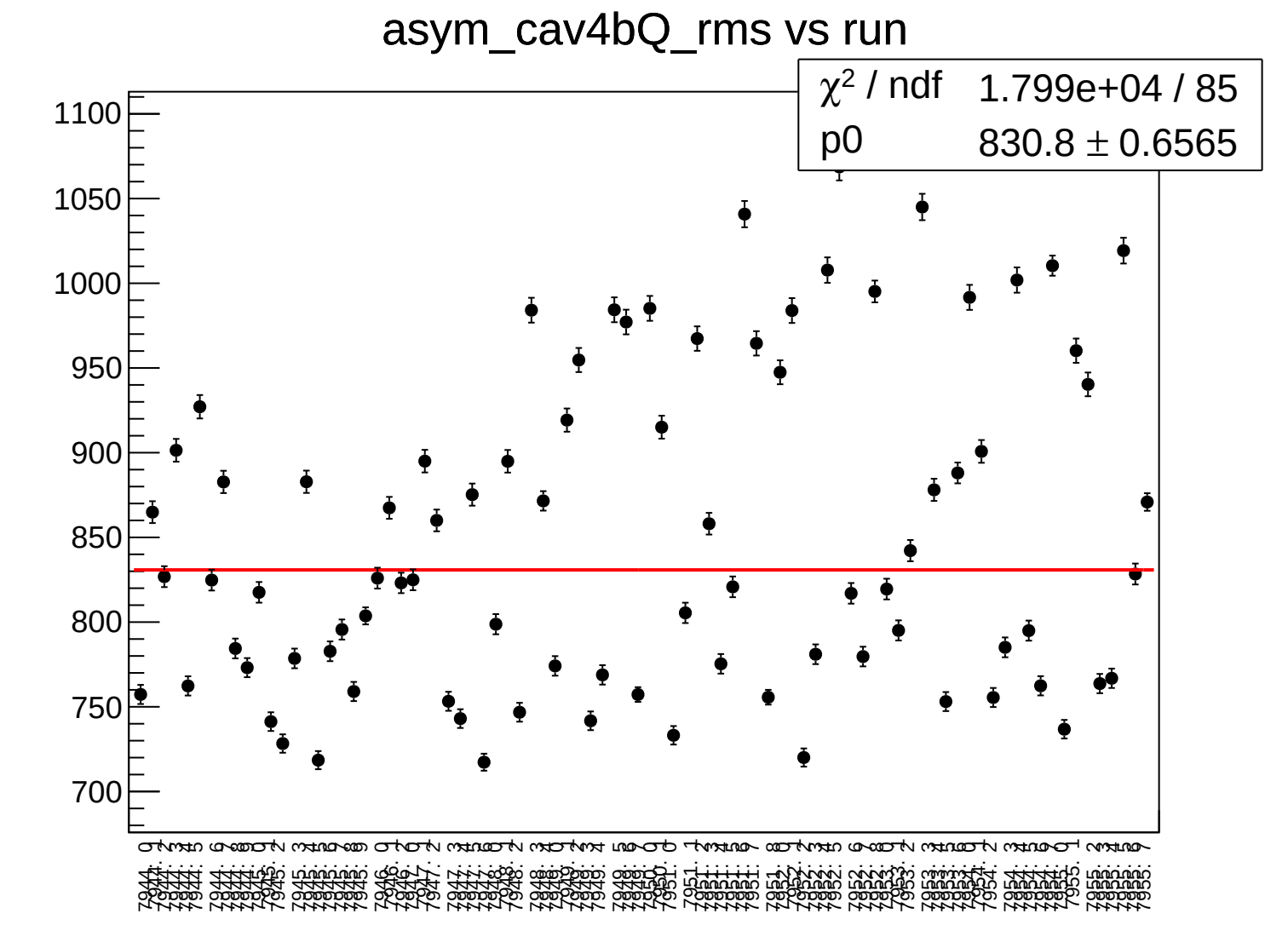

asym_bcm_dg_ds_mean vs run
χ² / ndf 18.61 / 85
p0 −113.3 ± 170.2
pull
Entries 86
Mean 68.2
Std Dev 64.8

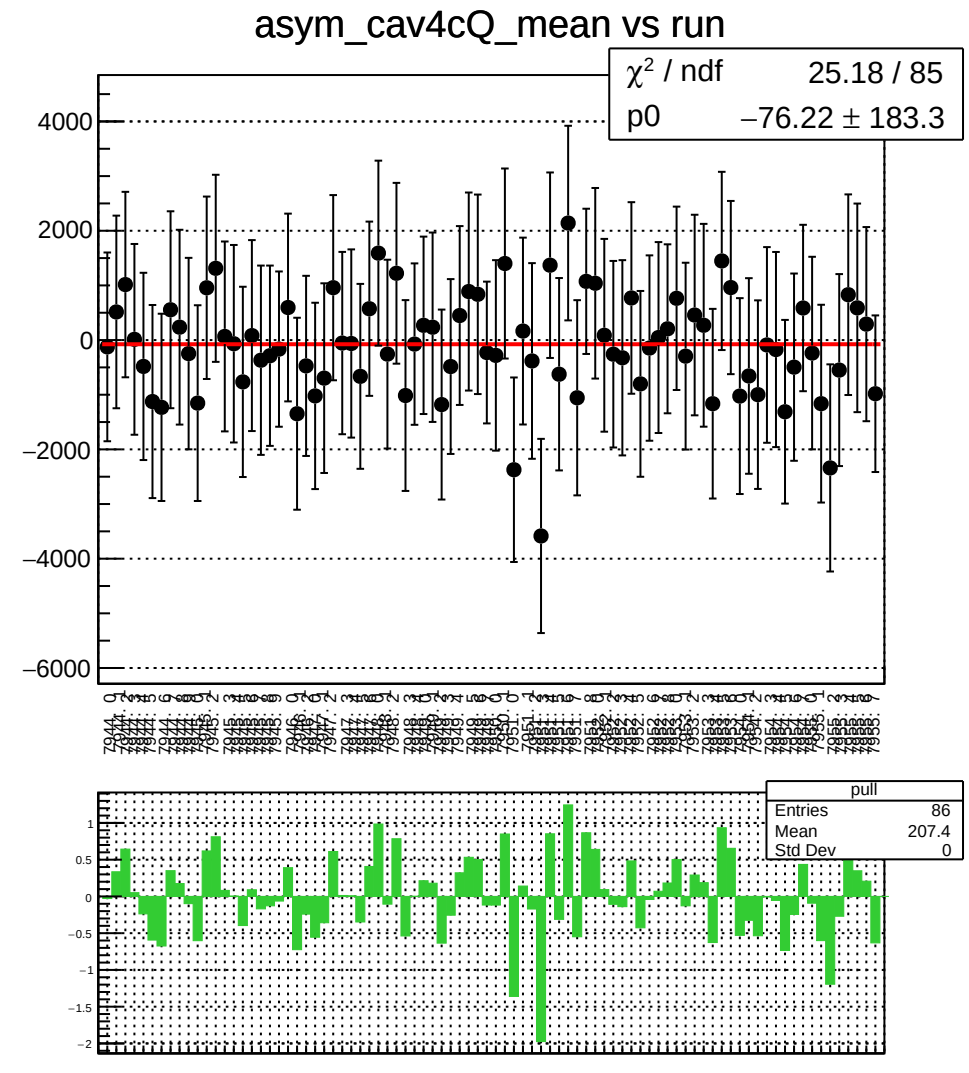

pull1D
Entries 86
Mean −0.007648
Std Dev 0.4651

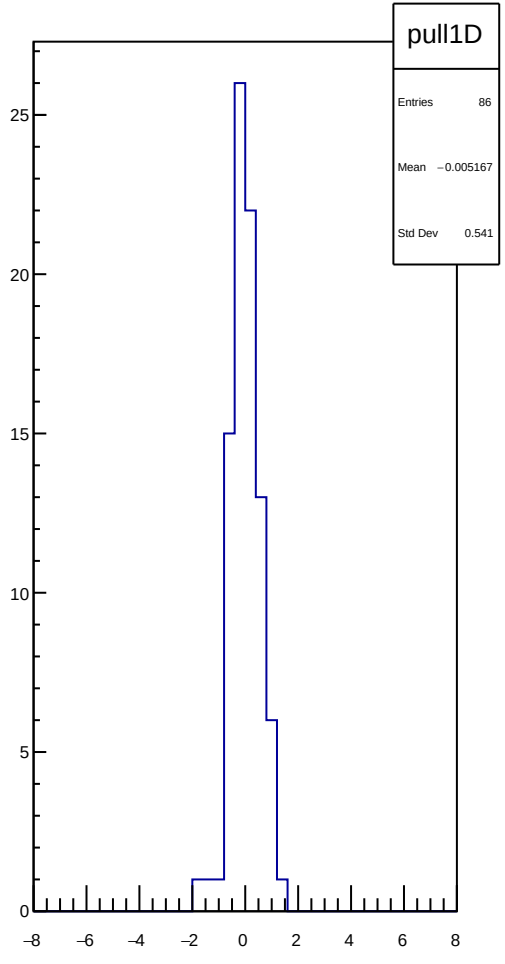

asym_bcm_dg_ds_rms vs run
χ² / ndf 1493 / 85
p0 153.1 ± 0.1204
165
160
155
150
145

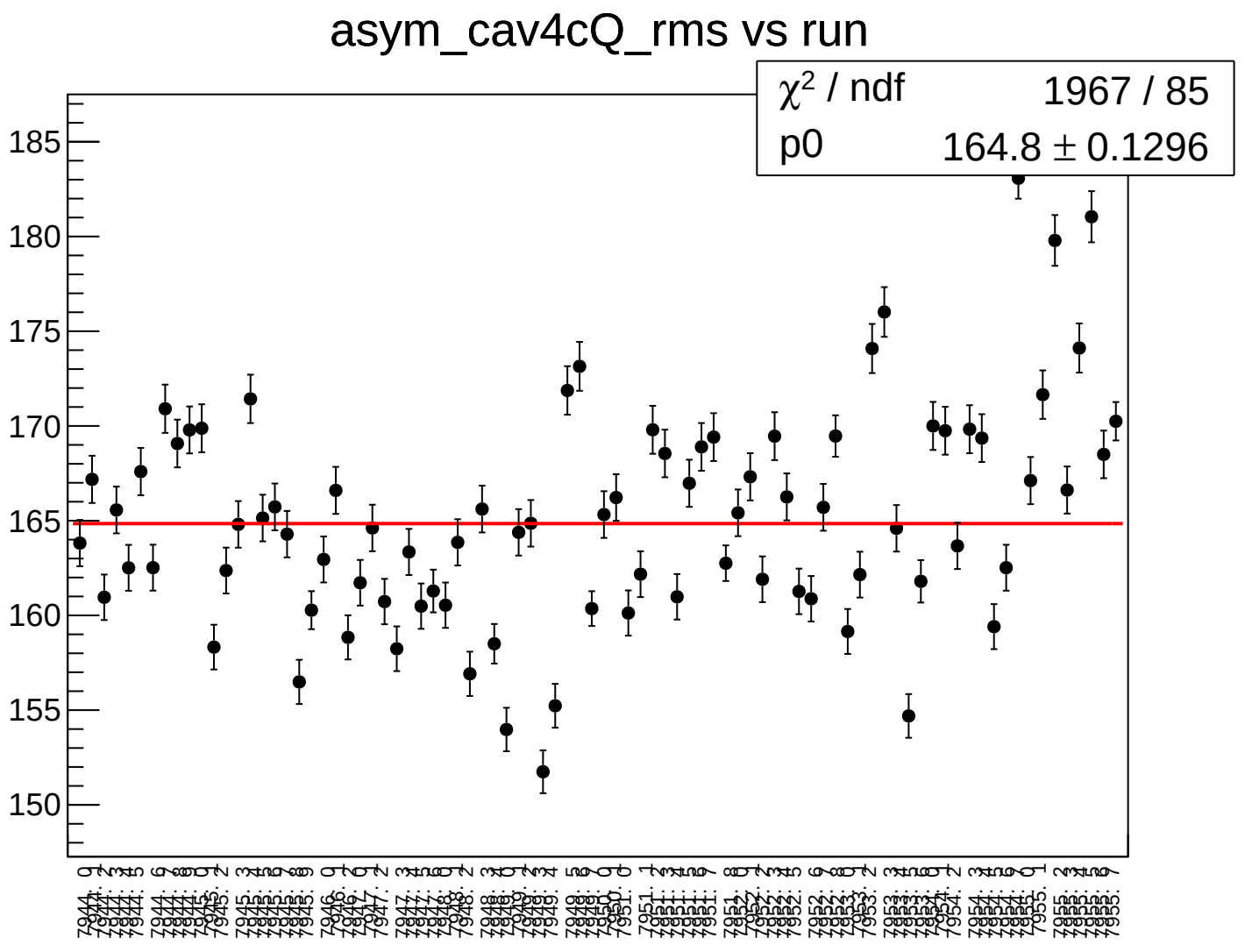

asym_cav4bQ_mean vs run
χ² / ndf 87.19 / 85
p0 −384.6 ± 928.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 692.9
Std Dev 0
2
1
0
−1
−2
−3

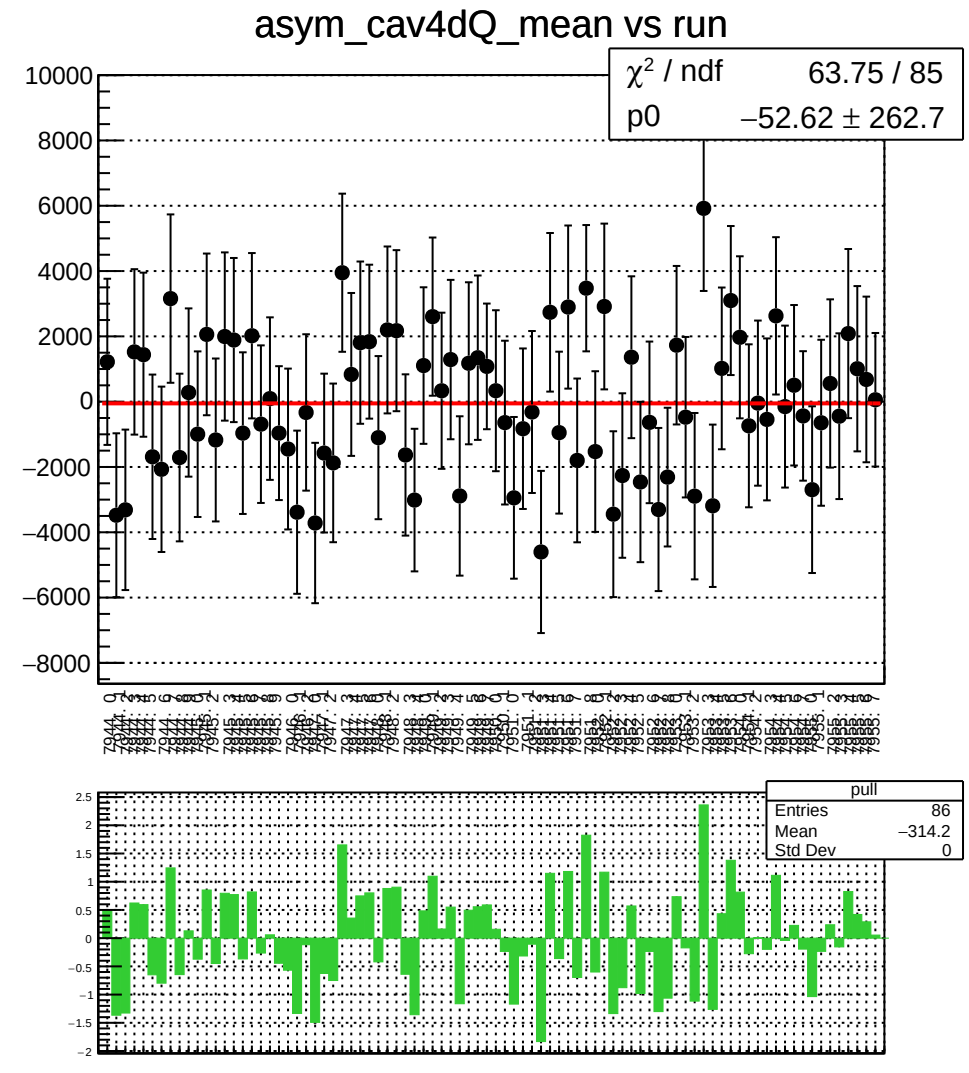

pull1D
Entries 86
Mean 0.005541
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

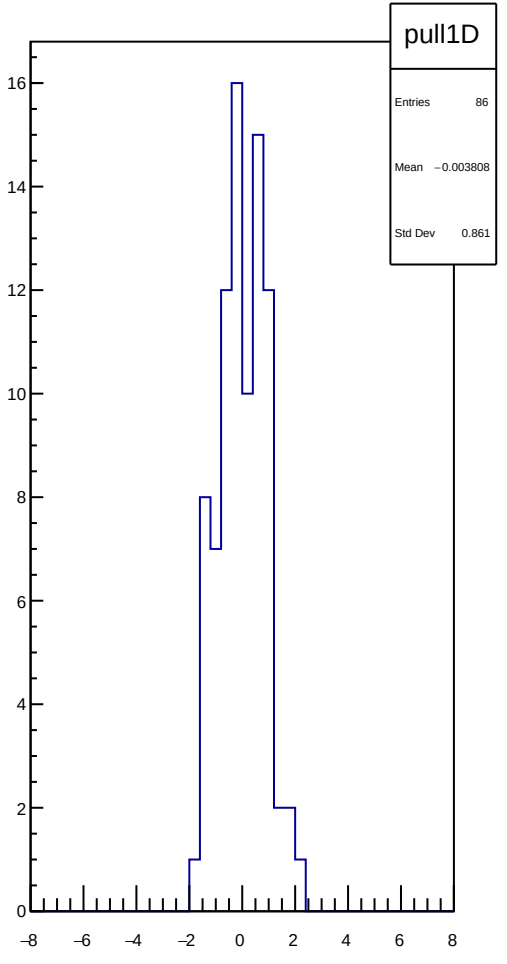

asym_cav4bQ_rms vs run
χ² / ndf 1.799e+04 / 85
p0 830.8 ± 0.6565
1100
1050
1000
950
900
850
800
750
700

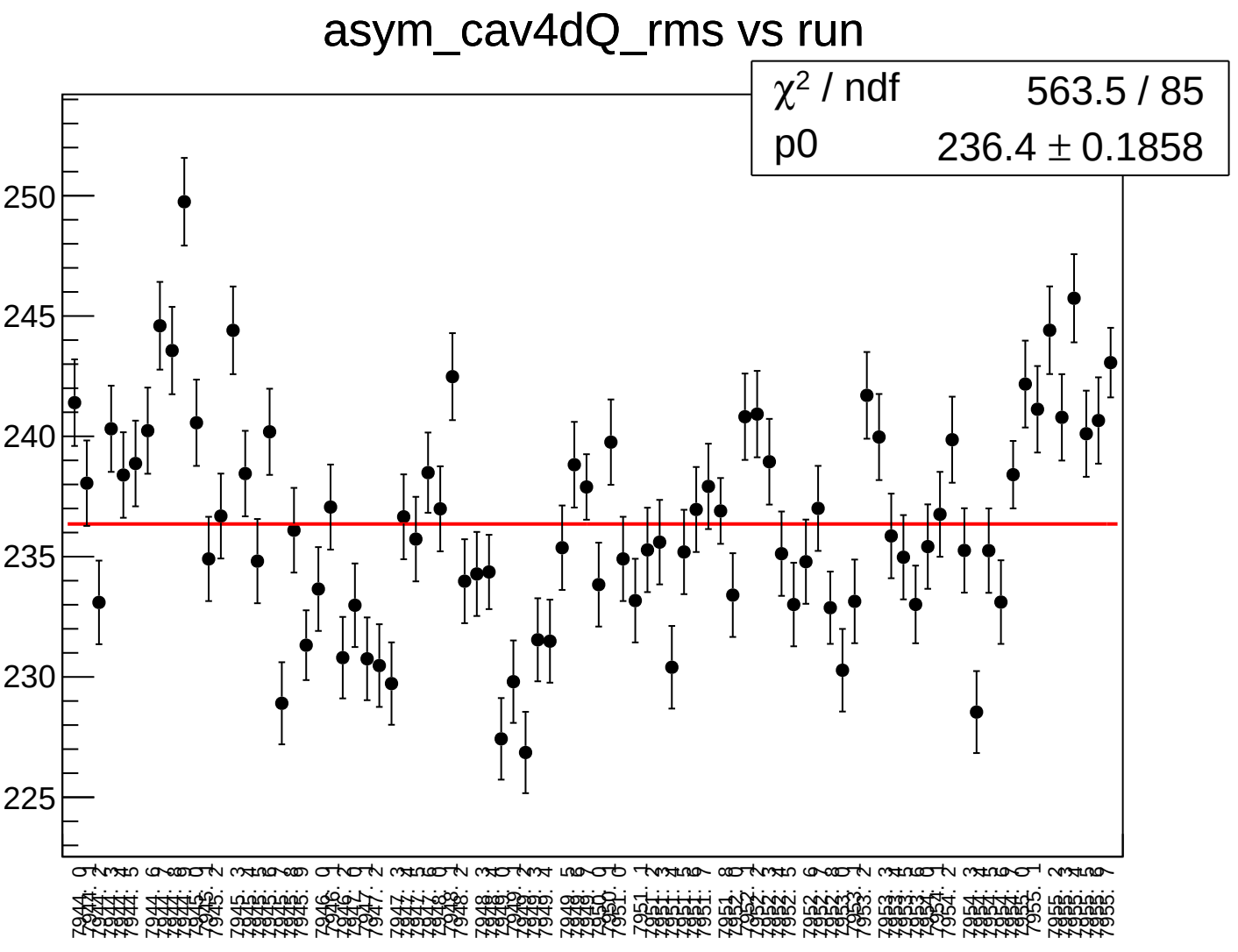

asym_cav4cQ_mean vs run
χ² / ndf 25.18 / 85
p0 −76.22 ± 183.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 207.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

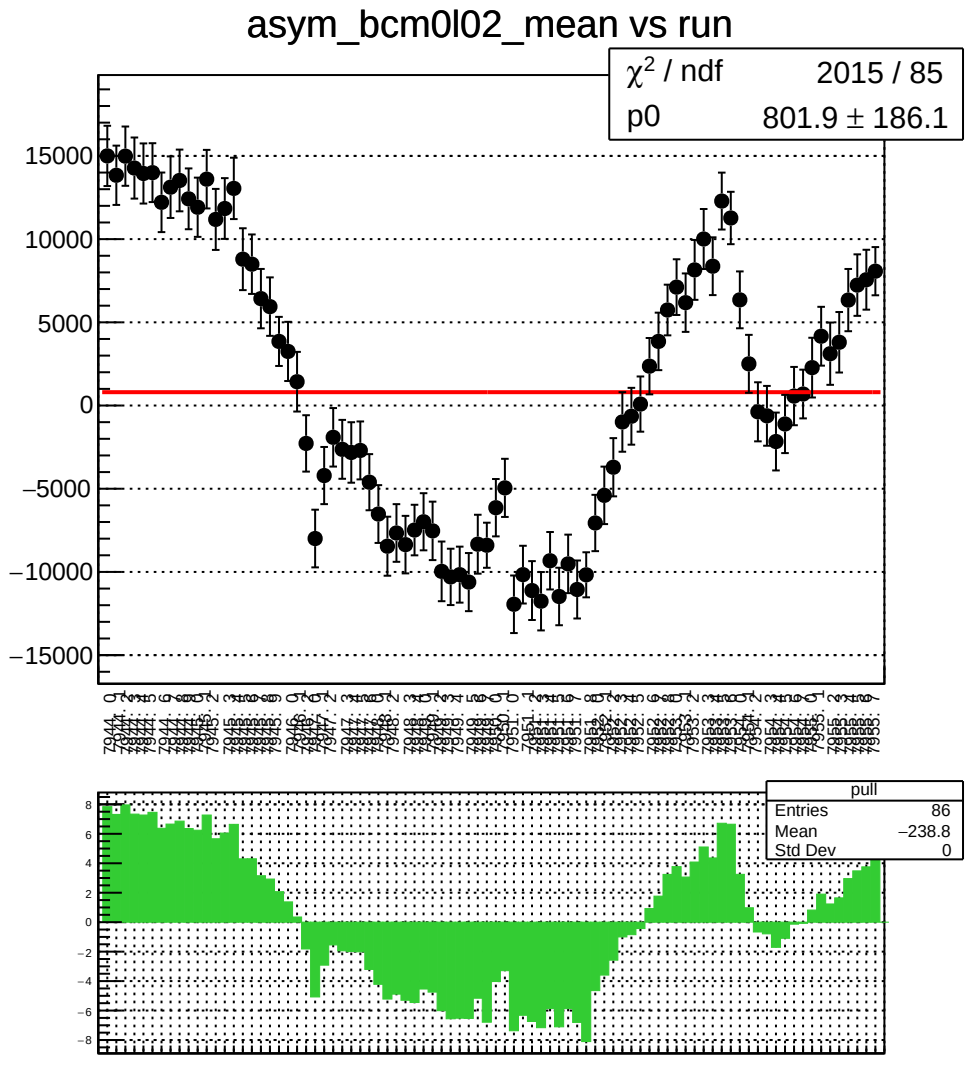

pull1D
Entries 86
Mean −0.005167
Std Dev 0.541
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

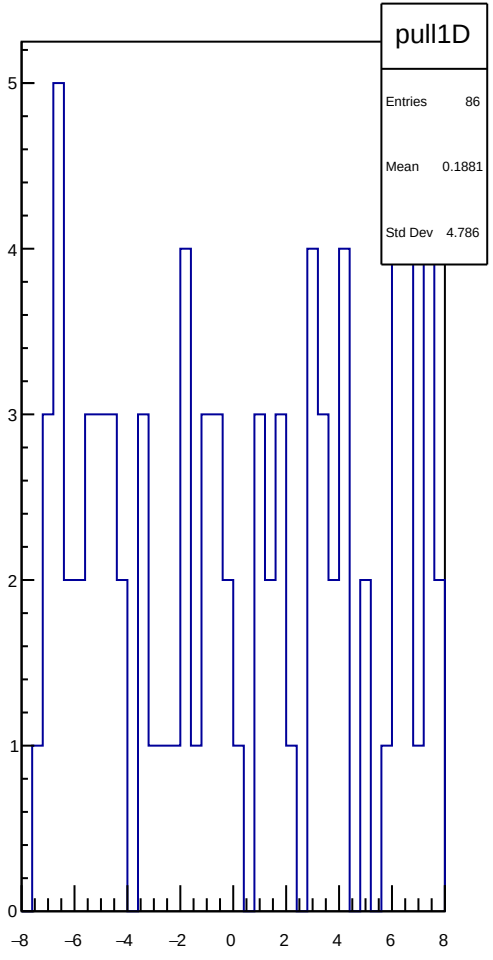

asym_cav4cQ_rms vs run
χ² / ndf 1967 / 85
p0 164.8 ± 0.1296
185
180
175
170
165
160
155
150

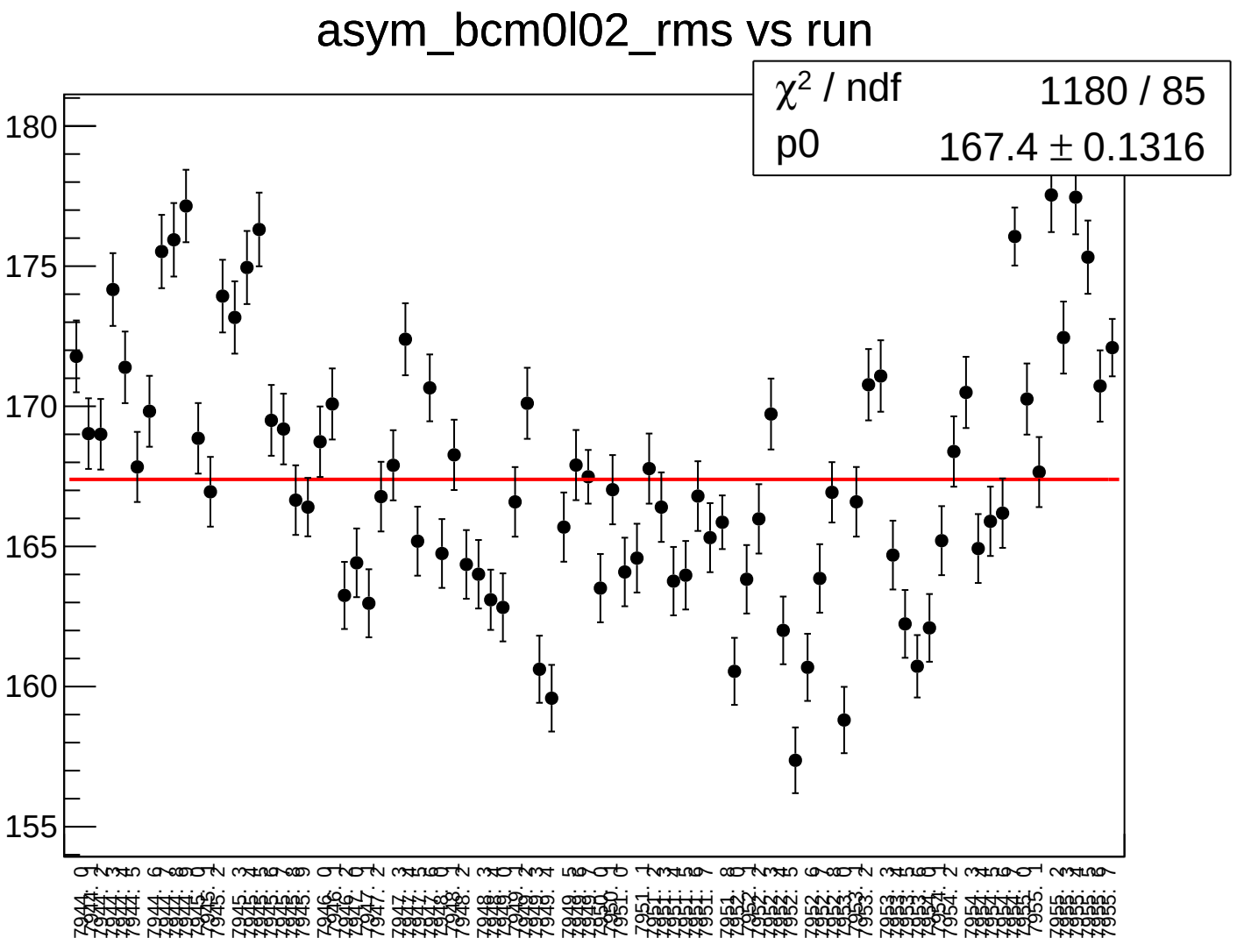

asym_cav4dQ_mean vs run
χ² / ndf 63.75 / 85
p0 −52.62 ± 262.7
pull
Entries 86
Mean −314.2
Std Dev 0

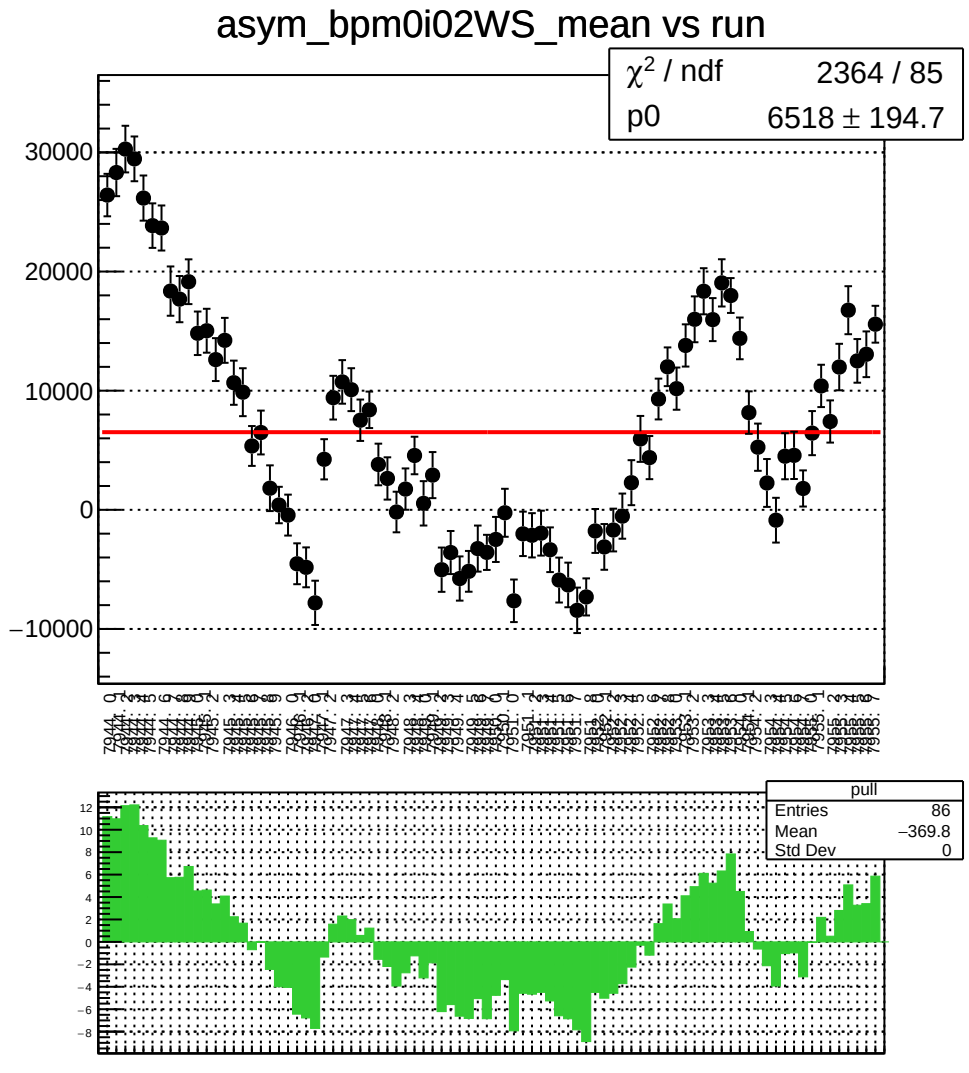

pull1D
Entries 86
Mean −0.003808
Std Dev 0.861

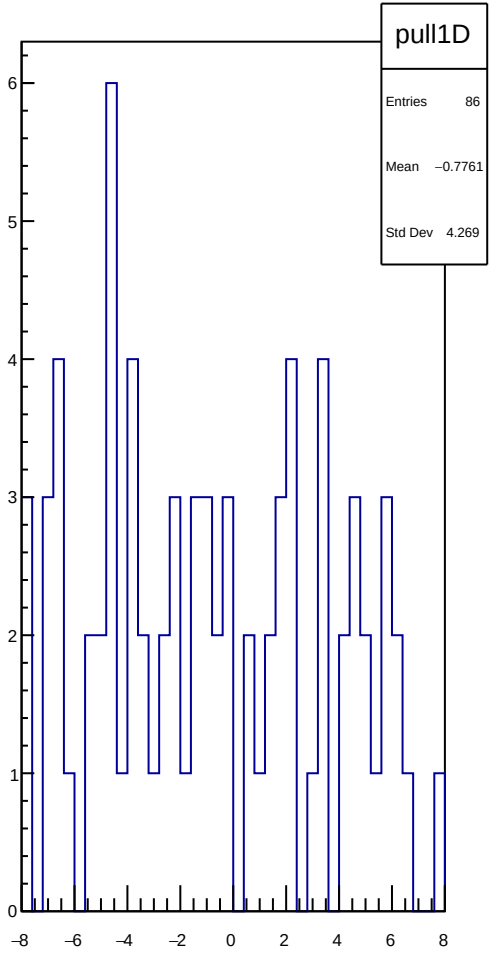

asym_cav4dQ_rms vs run
χ² / ndf 563.5 / 85
p0 236.4 ± 0.1858
250
245
240
235
230
225

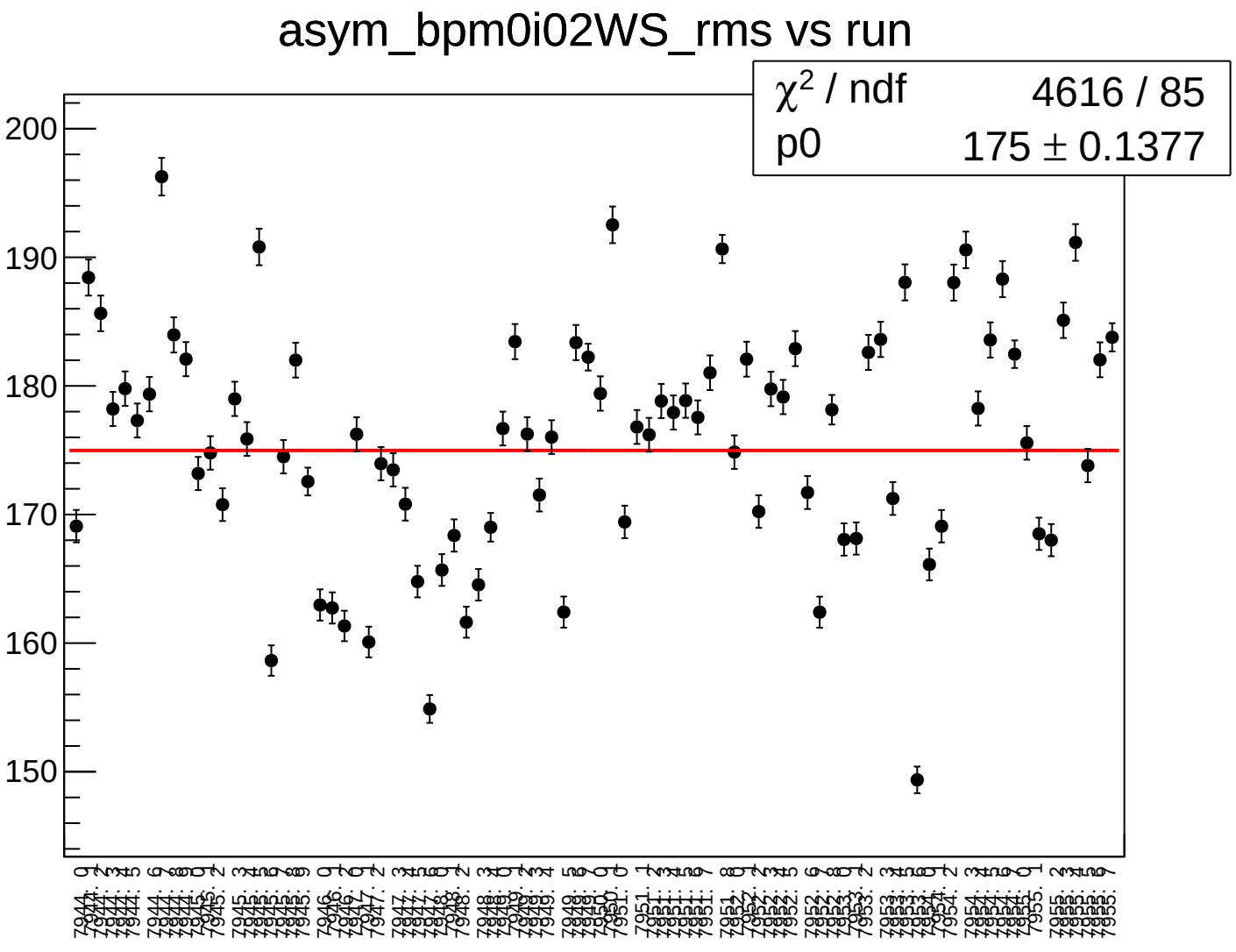

asym_bcm0l02_mean vs run
χ² / ndf 2015 / 85
p0 801.9 ± 186.1
pull
Entries 86
Mean −238.8
Std Dev 0

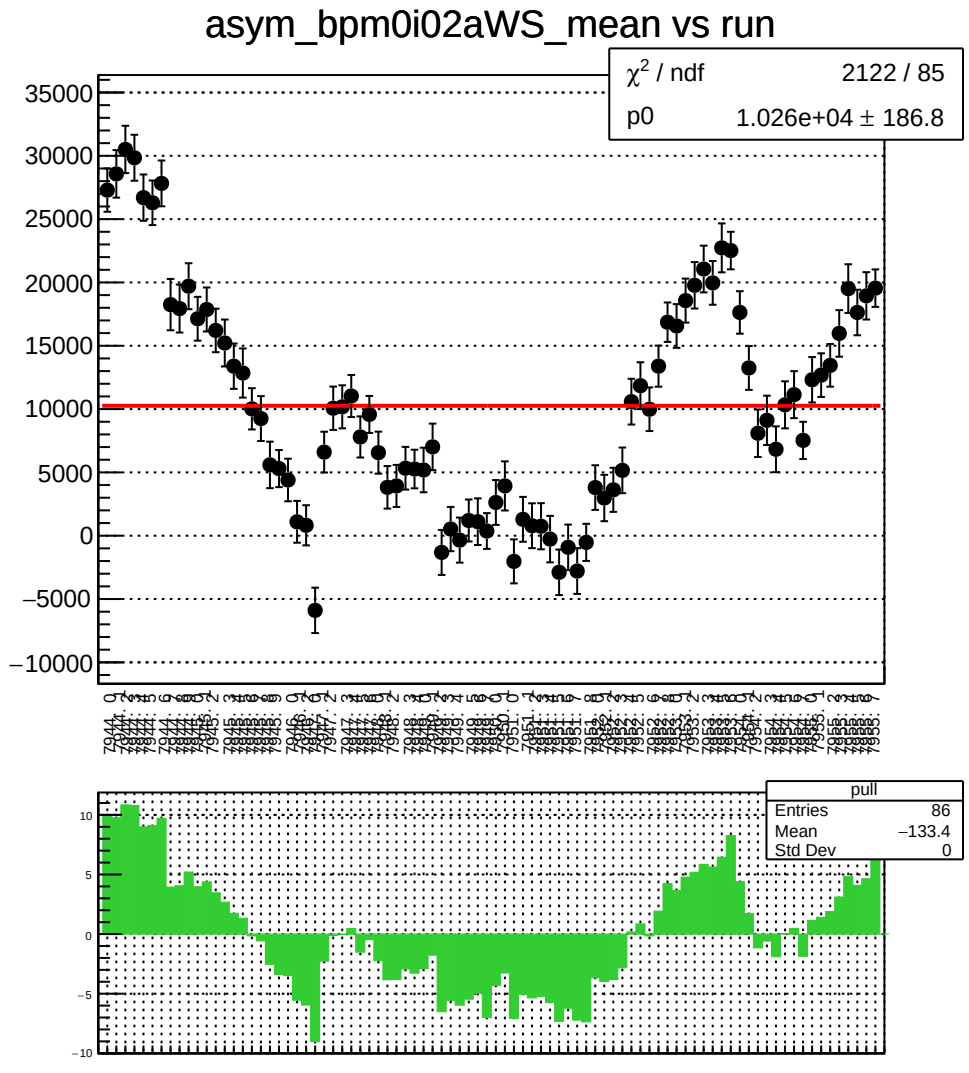

pull1D
Entries 86
Mean 0.1881
Std Dev 4.786

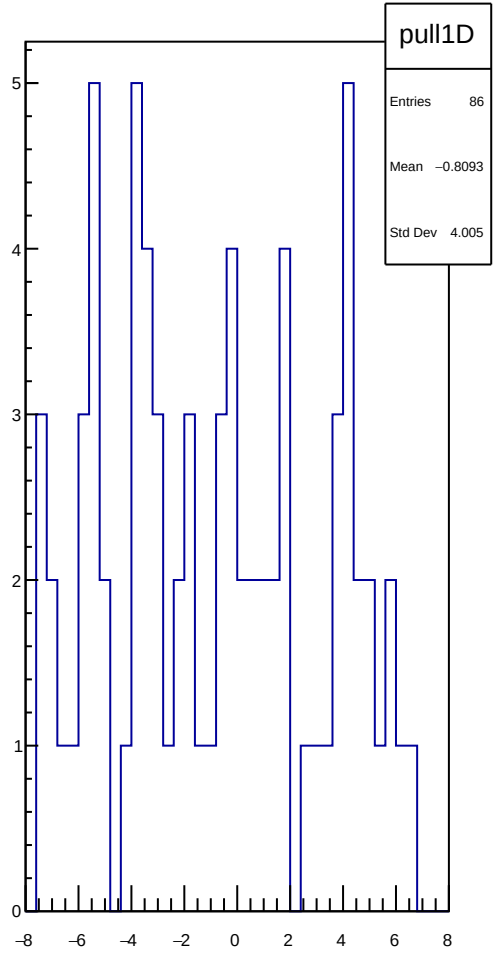

asym_bcm0l02_rms vs run
χ² / ndf 1180 / 85
p0 167.4 ± 0.1316
180
175
170
165
160
155

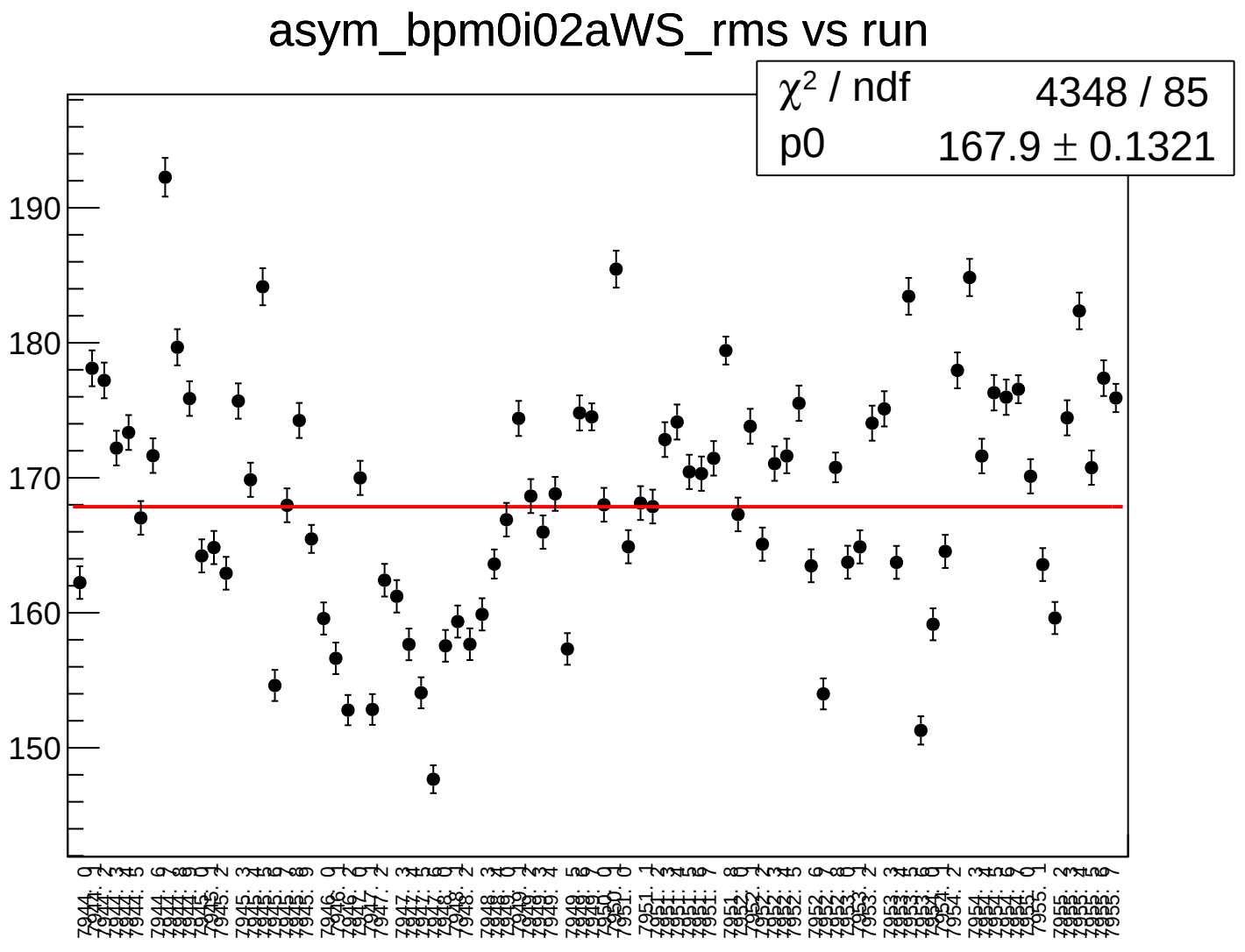

asym_bpm0i02WS_mean vs run
χ² / ndf 2364 / 85
p0 6518 ± 194.7
30000
20000
10000
0
−10000
pull
Entries 86
Mean −369.8
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8

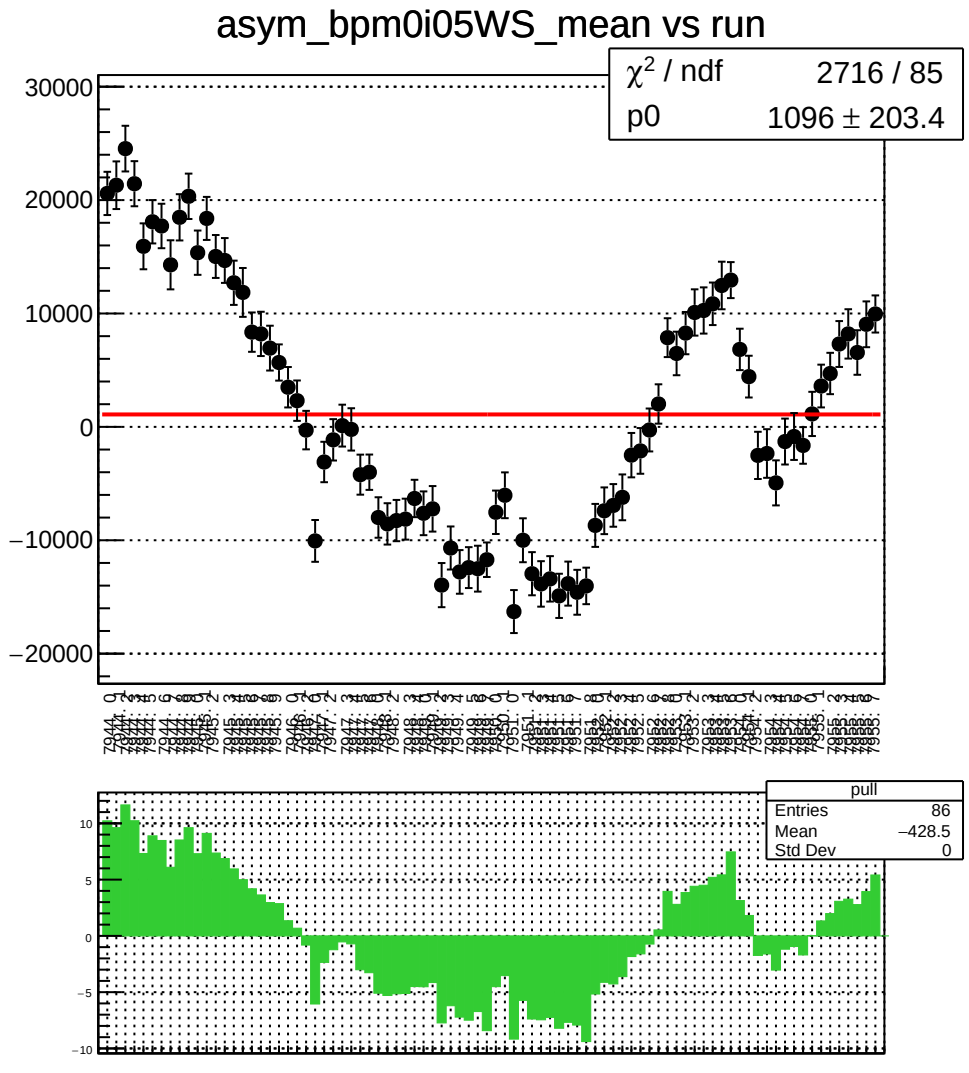

pull1D
Entries 86
Mean −0.7761
Std Dev 4.269
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

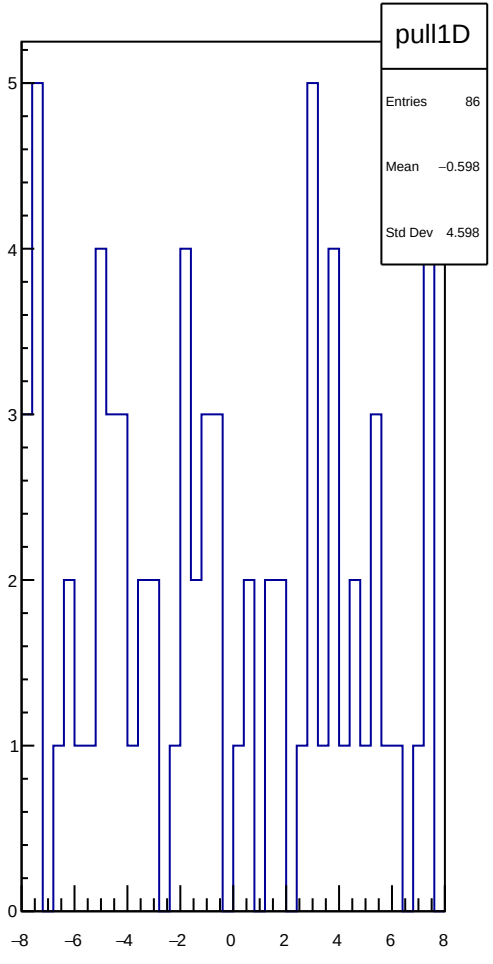

asym_bpm0i02WS_rms vs run
χ² / ndf 4616 / 85
p0 175 ± 0.1377
200
190
180
170
160
150

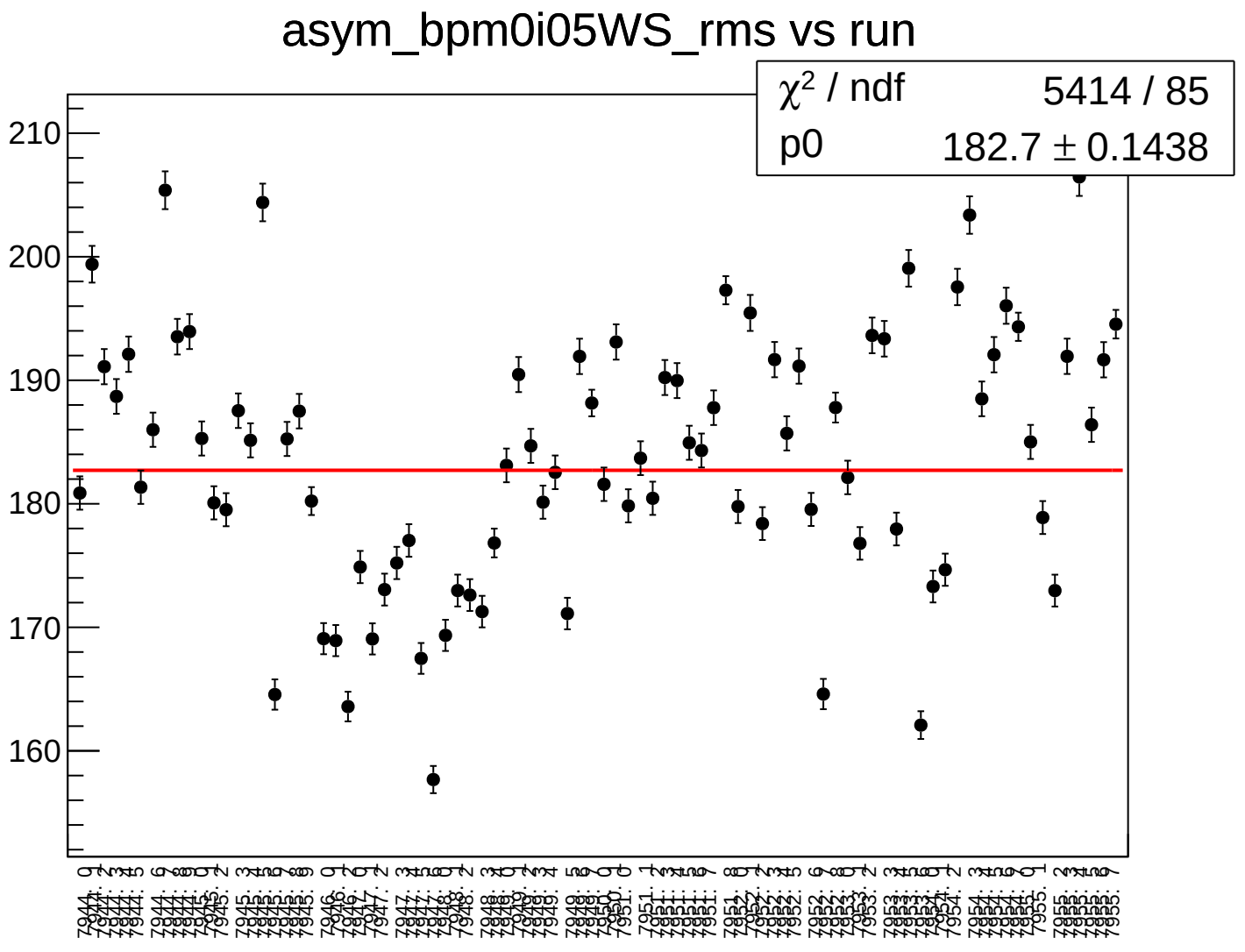

asym_bpm0i02aWS_mean vs run
χ² / ndf 2122 / 85
p0 1.026e+04 ± 186.8
pull
Entries 86
Mean −133.4
Std Dev 0

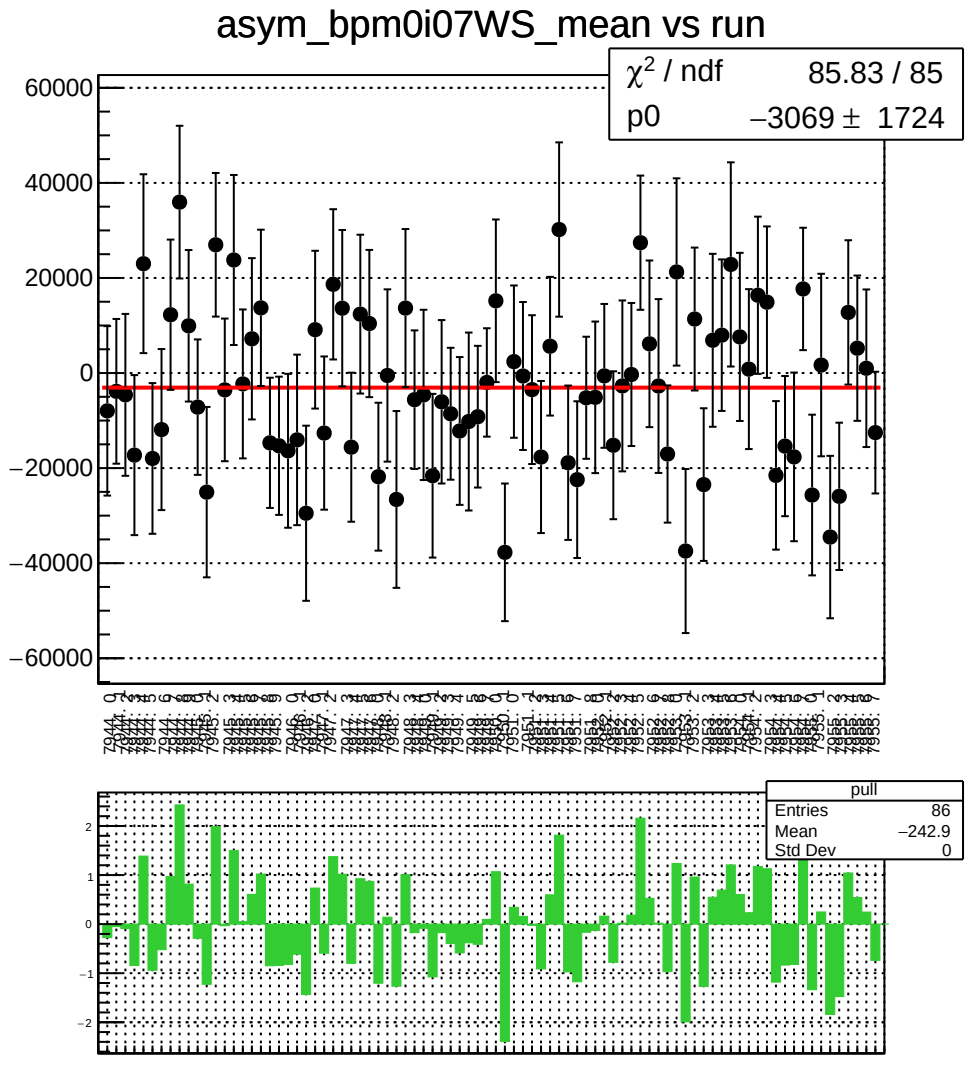

pull1D
Entries 86
Mean −0.8093
Std Dev 4.005

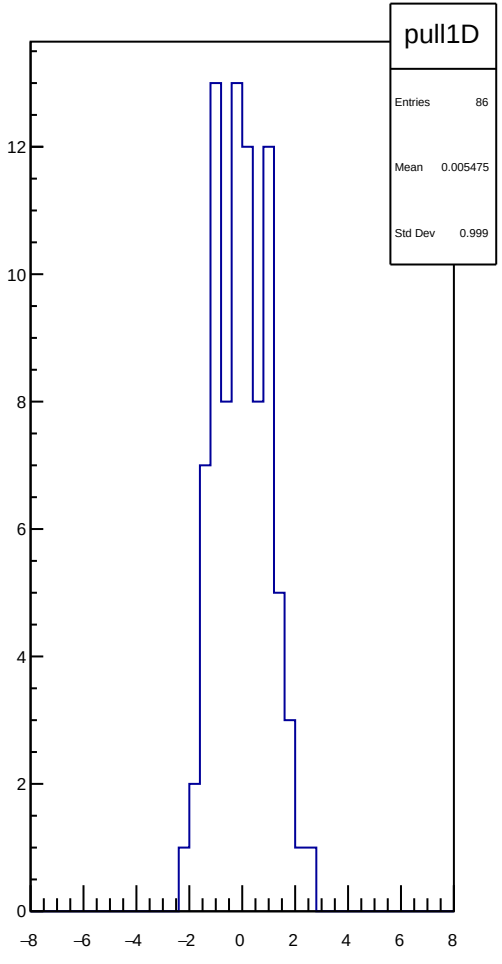

asym_bpm0i02aWS_rms vs run
χ² / ndf 4348 / 85
p0 167.9 ± 0.1321
190
180
170
160
150

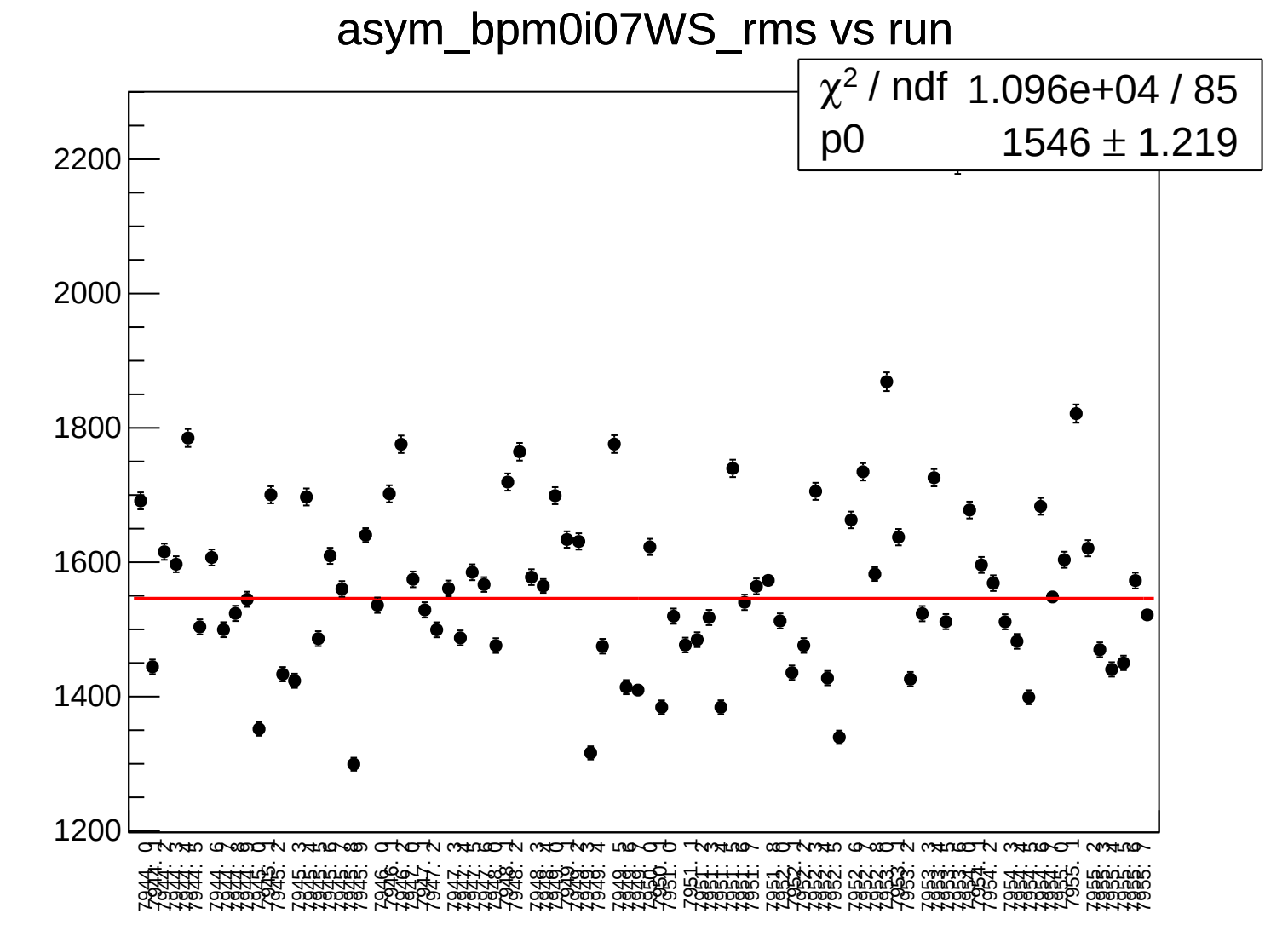

asym_bpm0i05WS_mean vs run
χ² / ndf 2716 / 85
p0 1096 ± 203.4
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −428.5
Std Dev 0
10
5
0
−5
−10

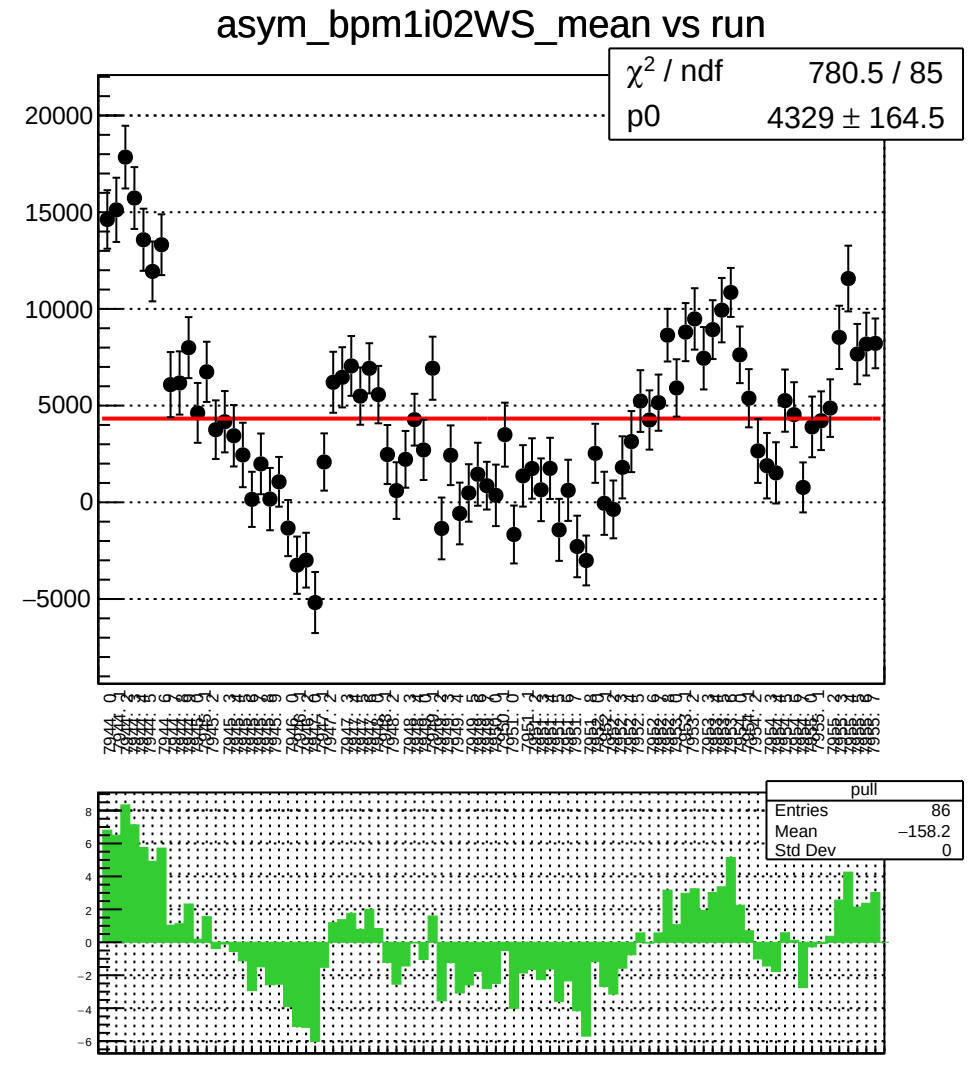

pull1D
Entries 86
Mean −0.598
Std Dev 4.598
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

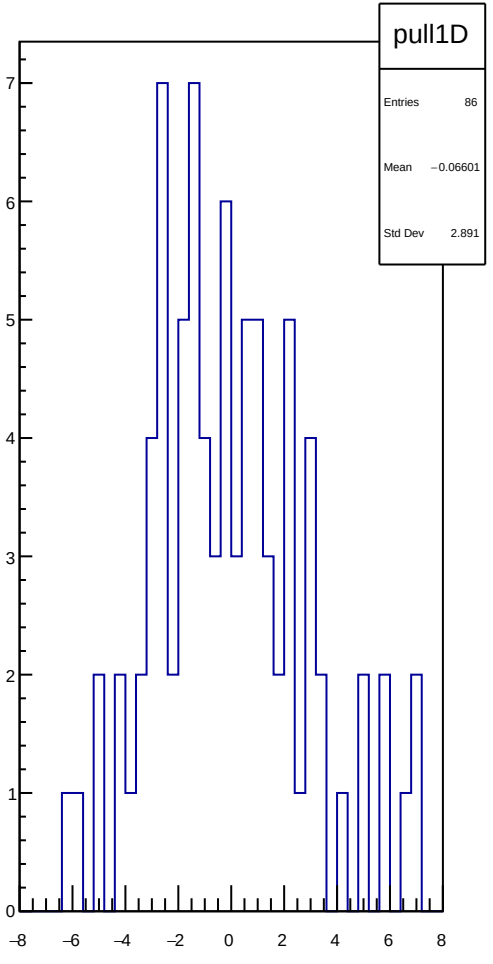

asym_bpm0i05WS_rms vs run
χ² / ndf 5414 / 85
p0 182.7 ± 0.1438
210
200
190
180
170
160

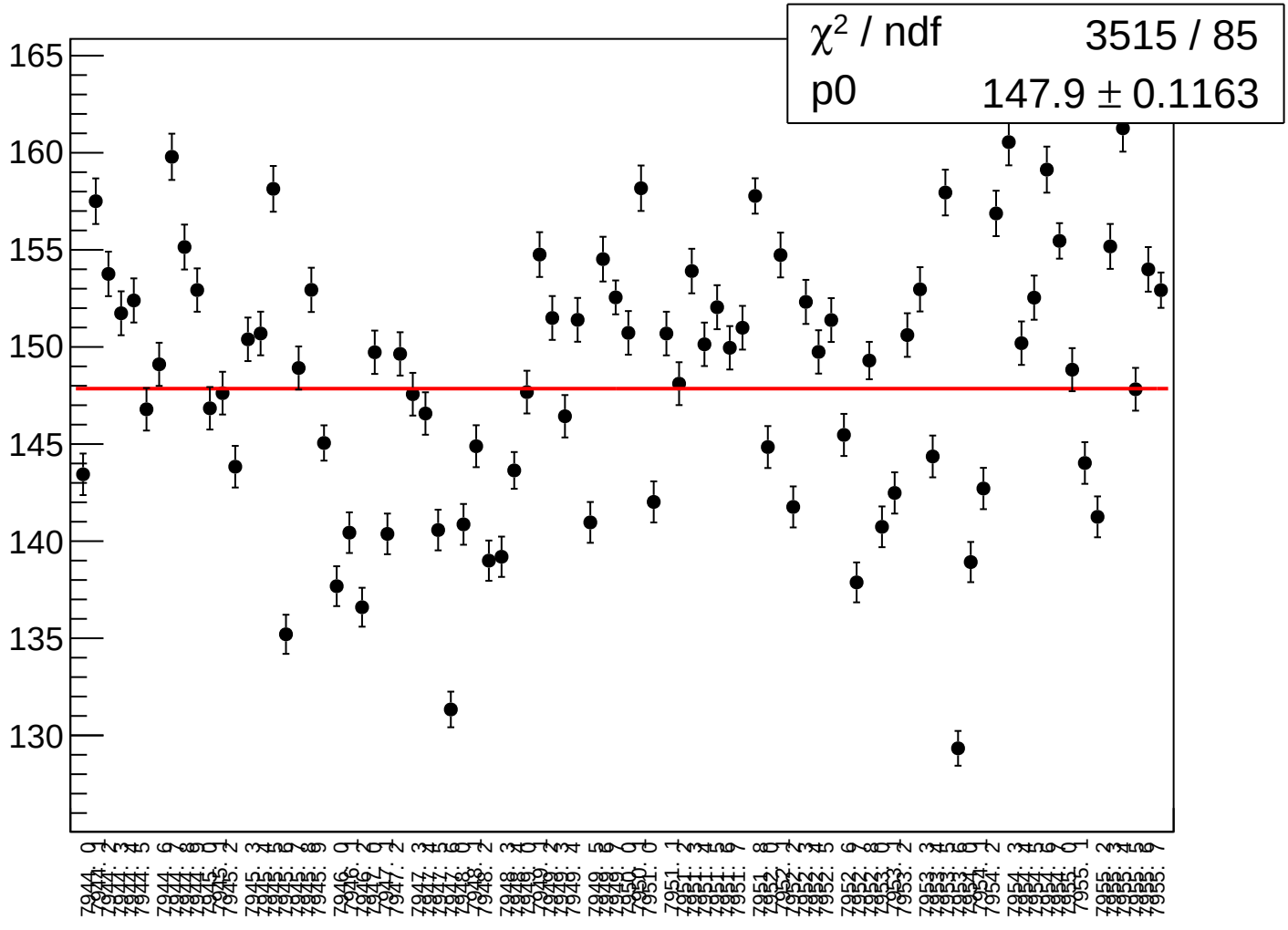

asym_bpm0i07WS_mean vs run
χ² / ndf 85.83 / 85
p0 −3069 ± 1724
pull
Entries 86
Mean −242.9
Std Dev 0

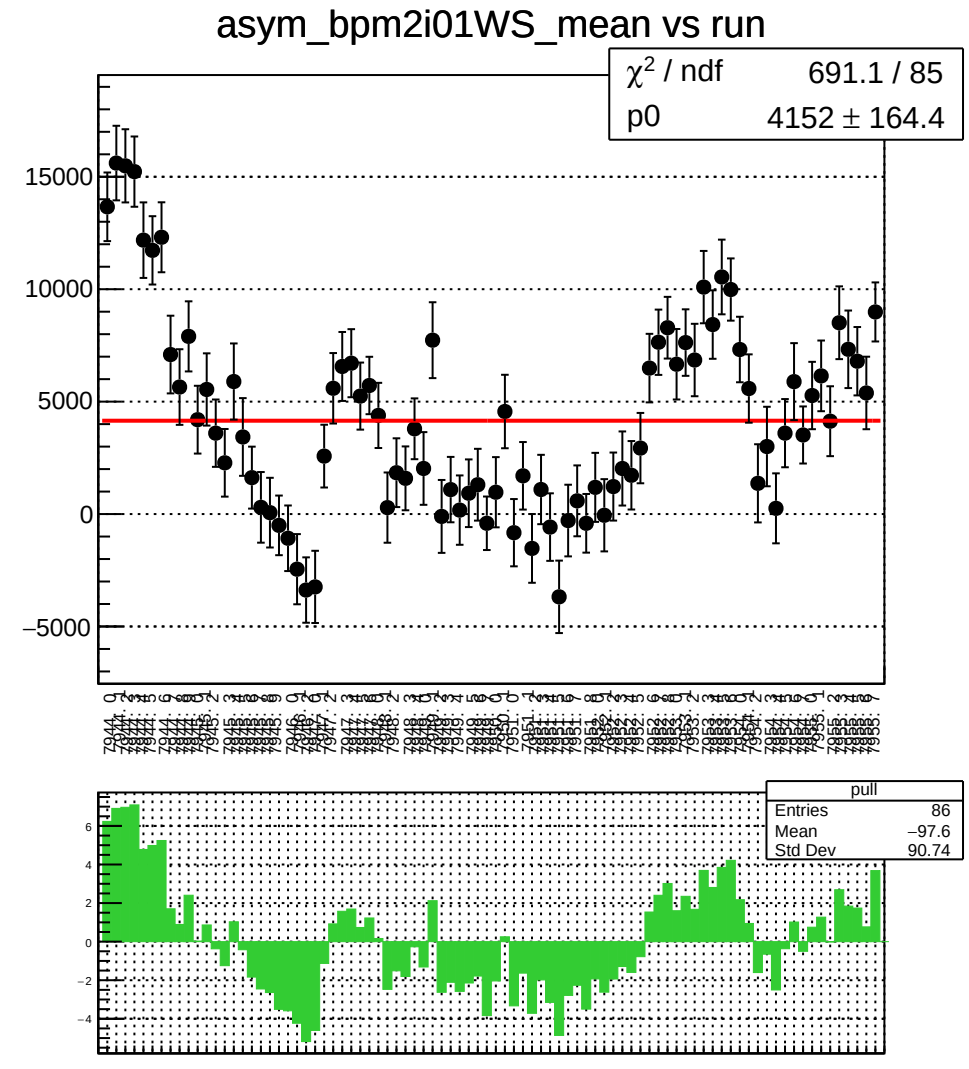

pull1D
Entries 86
Mean 0.005475
Std Dev 0.999

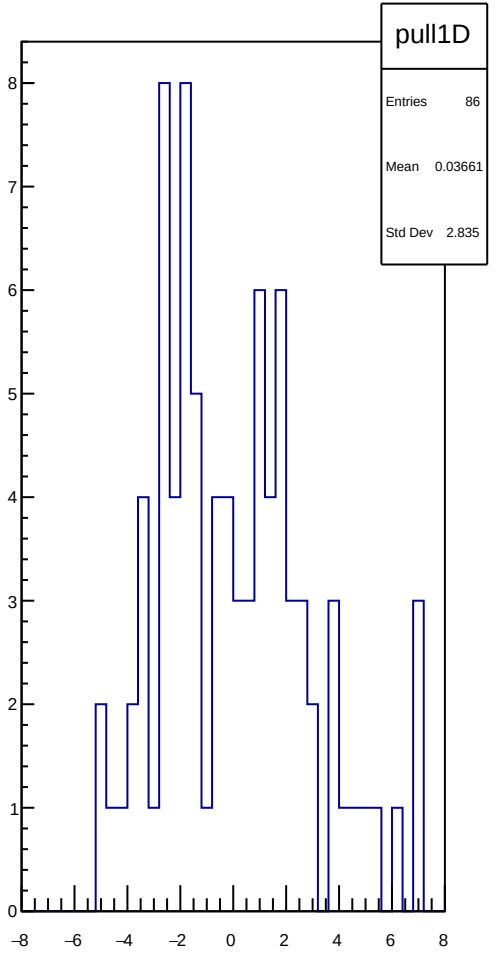

asym_bpm0i07WS_rms vs run
χ² / ndf 1.096e+04 / 85
p0 1546 ± 1.219
2200
2000
1800
1600
1400
1200

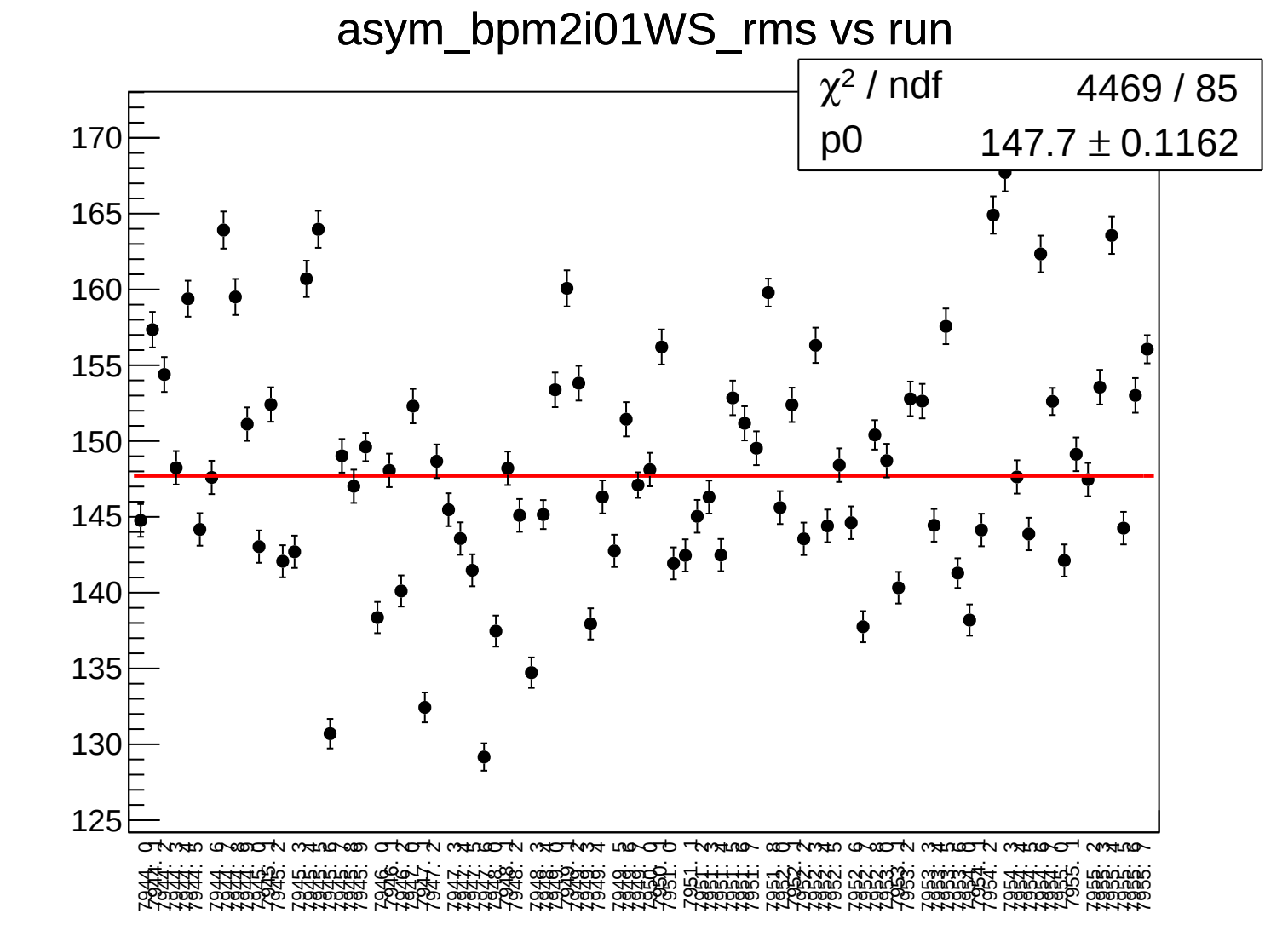

asym_bpm1i02WS_mean vs run
χ² / ndf 780.5 / 85
p0 4329 ± 164.5
20000
15000
10000
5000
0
−5000
pull
Entries 86
Mean −158.2
Std Dev 0
8
6
4
2
0
−2
−4
−6

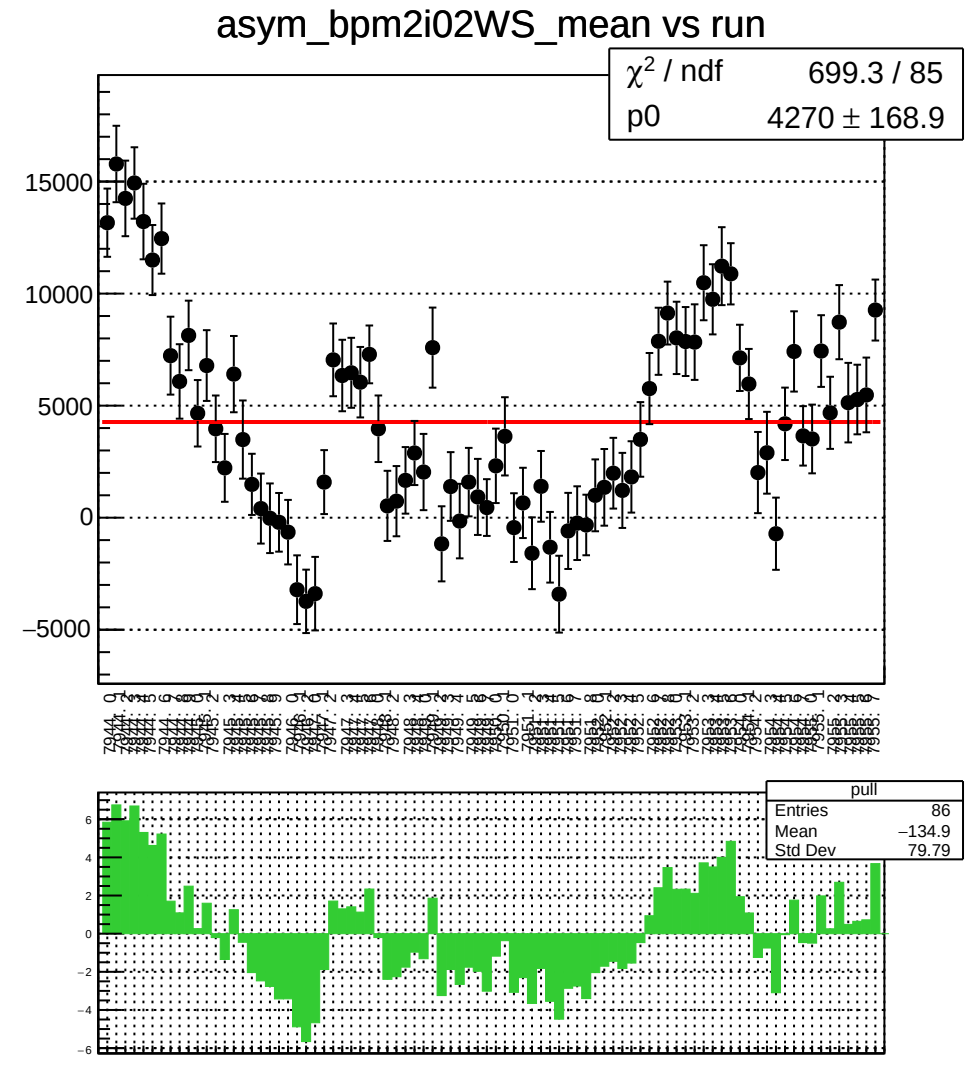

pull1D
Entries 86
Mean −0.06601
Std Dev 2.891
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

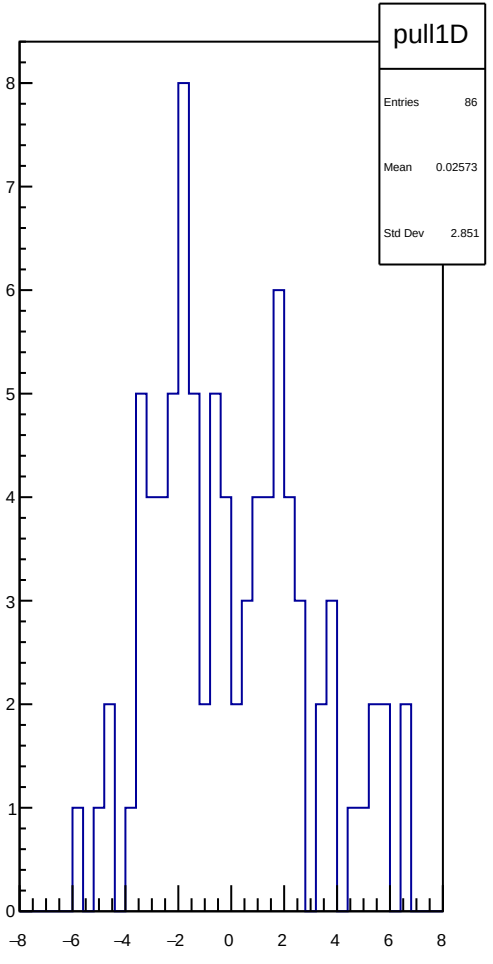

asym_bpm1i02WS_rms vs run
χ^2 / ndf 3515 / 85
p0 147.9 ± 0.1163
165
160
155
150
145
140
135
130

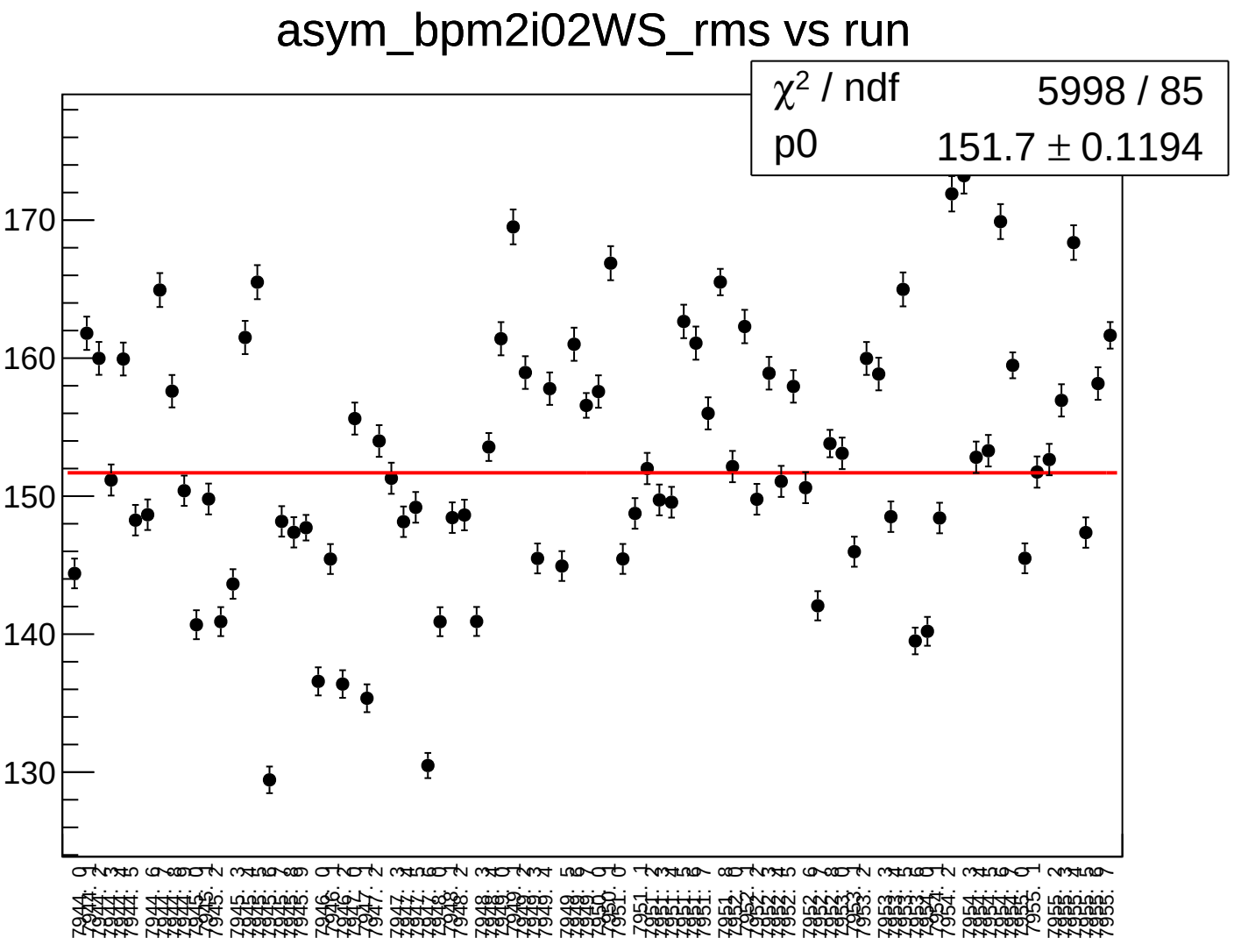

asym_bpm2i01WS_mean vs run
χ² / ndf 691.1 / 85
p0 4152 ± 164.4
15000
10000
5000
0
−5000
pull
Entries 86
Mean −97.6
Std Dev 90.74
6
4
2
0
−2
−4

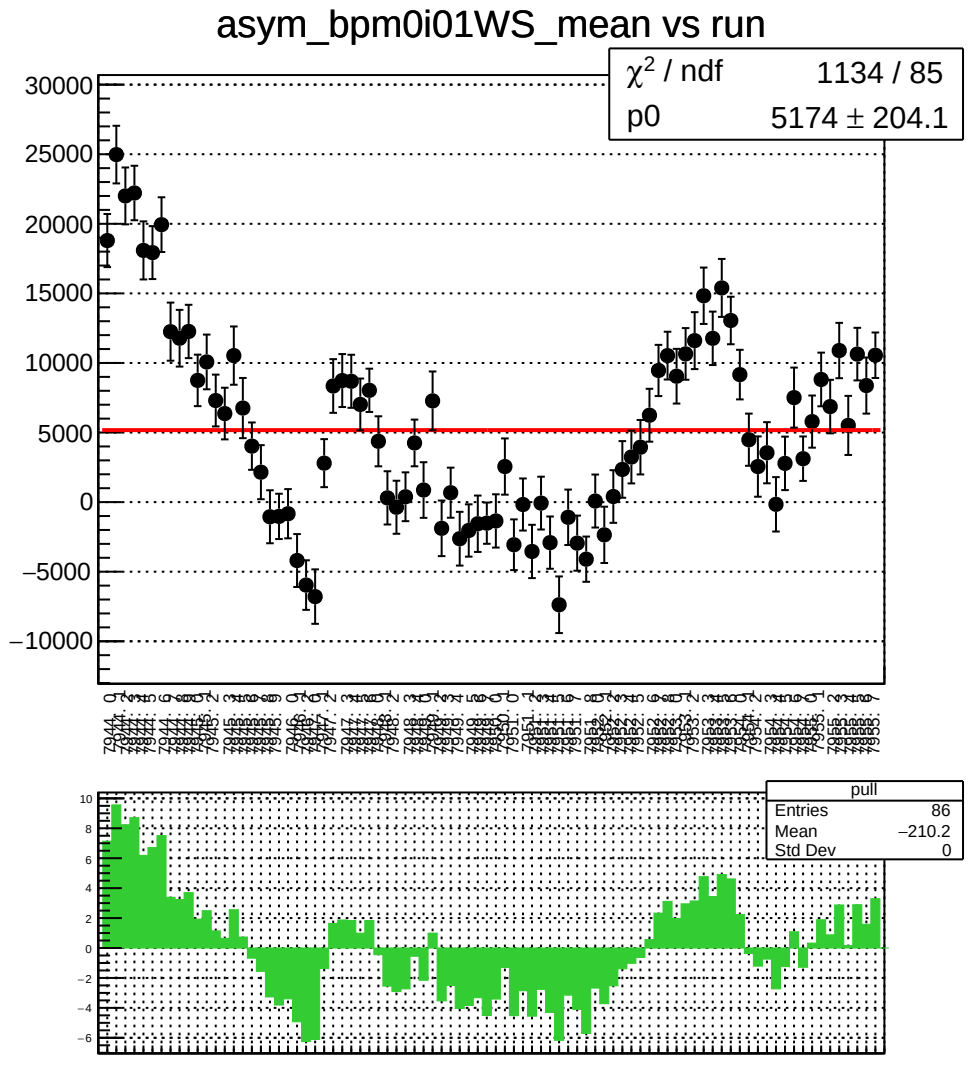

pull1D
Entries 86
Mean 0.03661
Std Dev 2.835
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

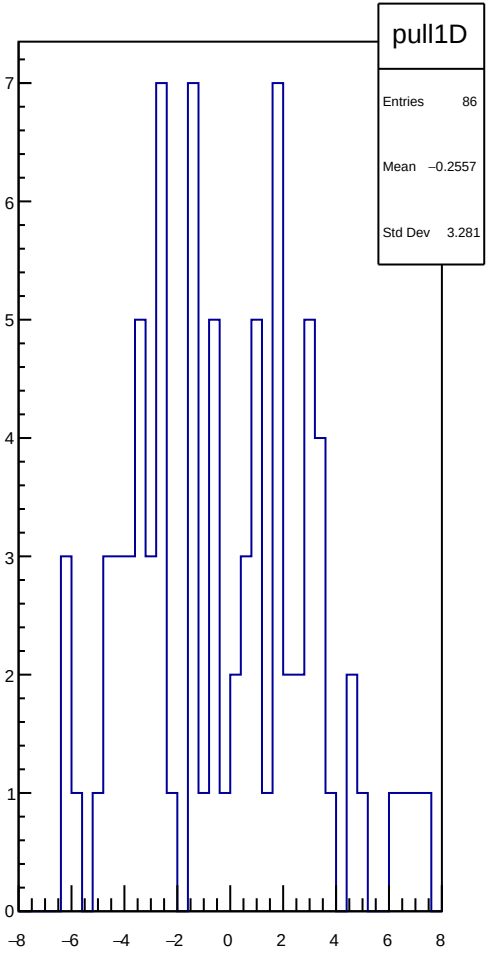

asym_bpm2i01WS_rms vs run
χ² / ndf 4469 / 85
p0 147.7 ± 0.1162
170
165
160
155
150
145
140
135
130
125

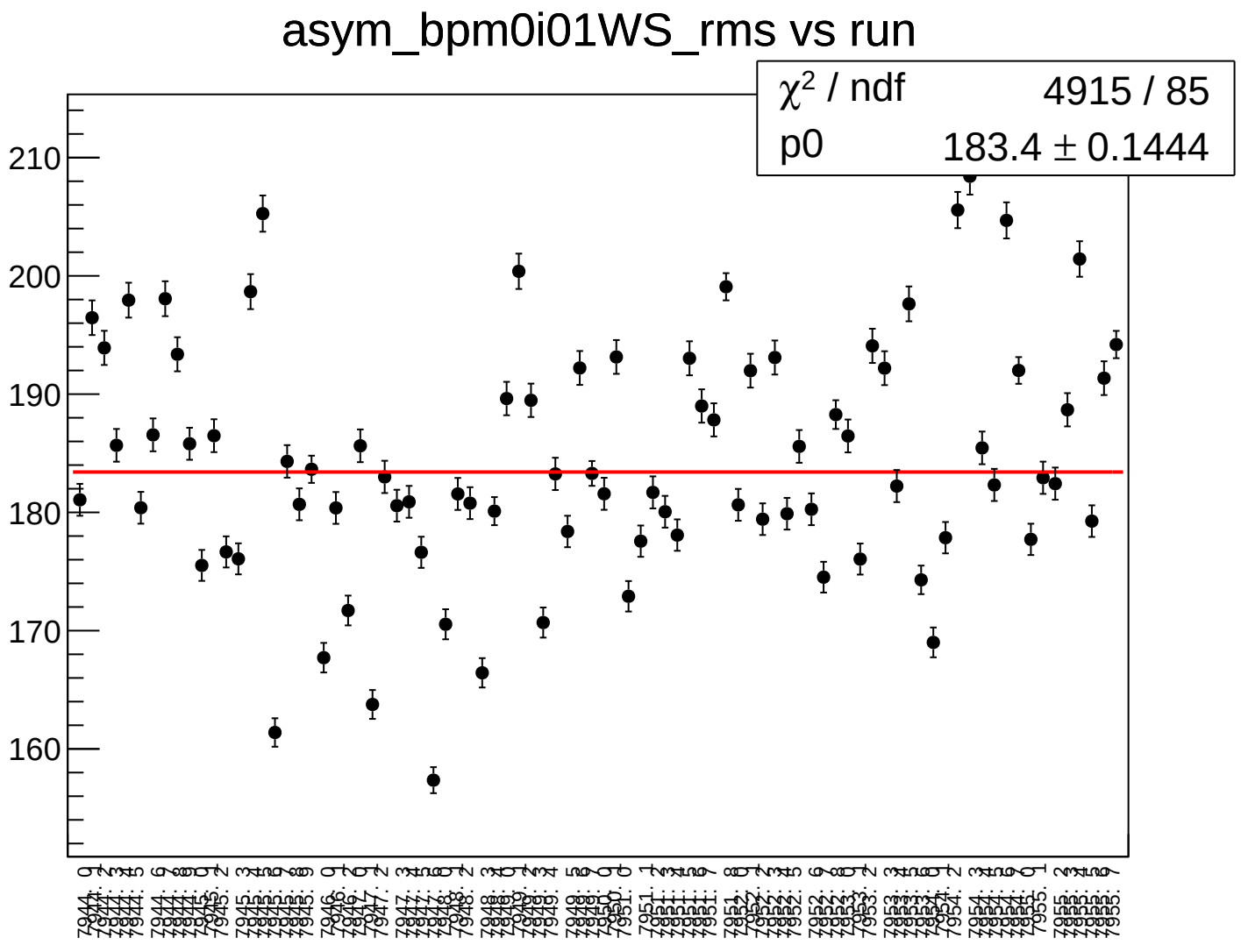

asym_bpm2i02WS_mean vs run
χ² / ndf 699.3 / 85
p0 4270 ± 168.9
15000
10000
5000
0
−5000
pull
Entries 86
Mean −134.9
Std Dev 79.79
6
4
2
0
−2
−4
−6

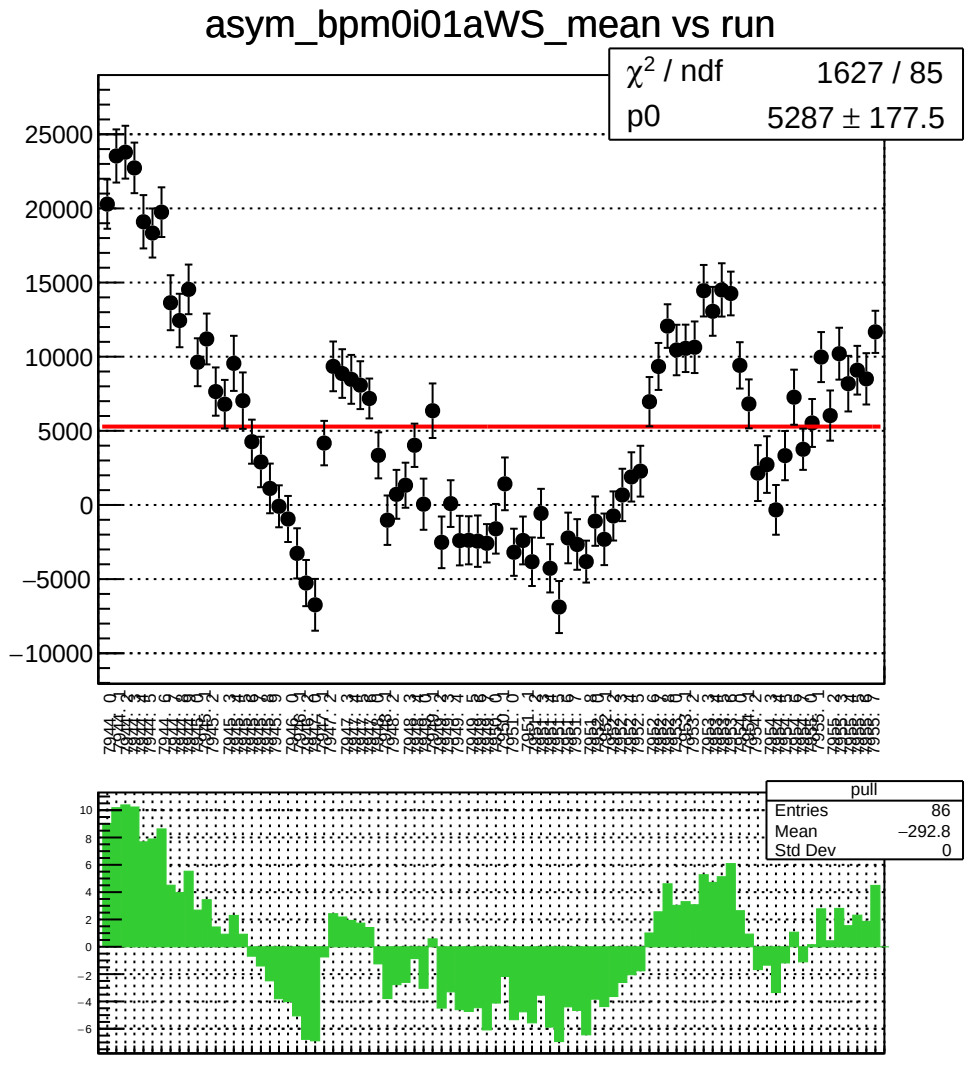

pull1D
Entries 86
Mean 0.02573
Std Dev 2.851
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

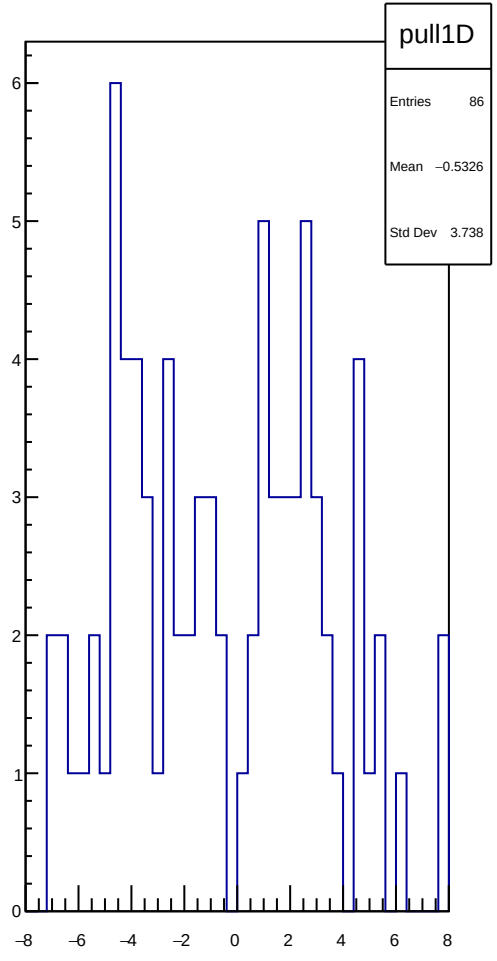

asym_bpm2i02WS_rms vs run
χ^2 / ndf 5998 / 85
p0 151.7 ± 0.1194
170
160
150
140
130

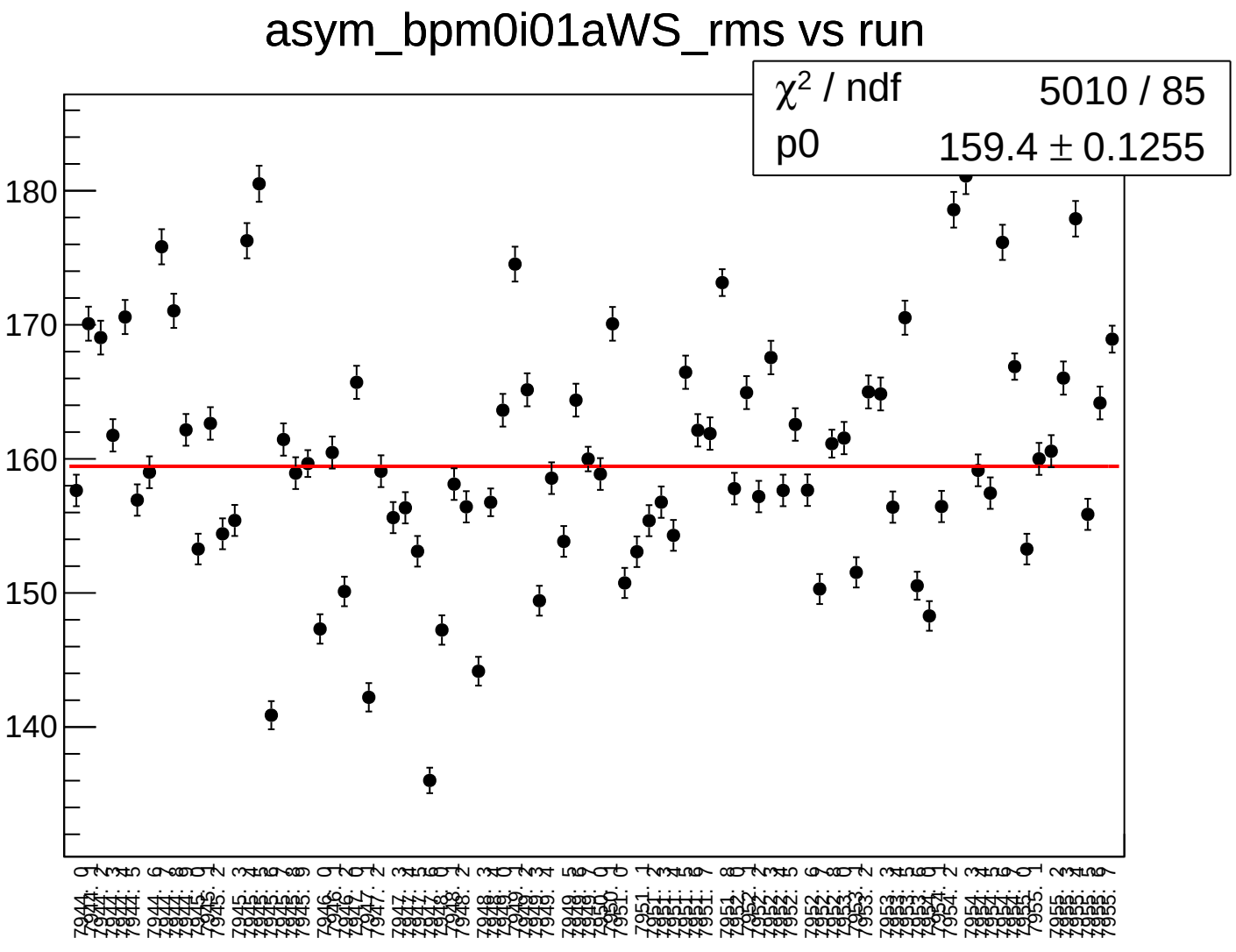

asym_bpm0i01WS_mean vs run
χ² / ndf 1134 / 85
p0 5174 ± 204.1
pull
Entries 86
Mean −210.2
Std Dev 0

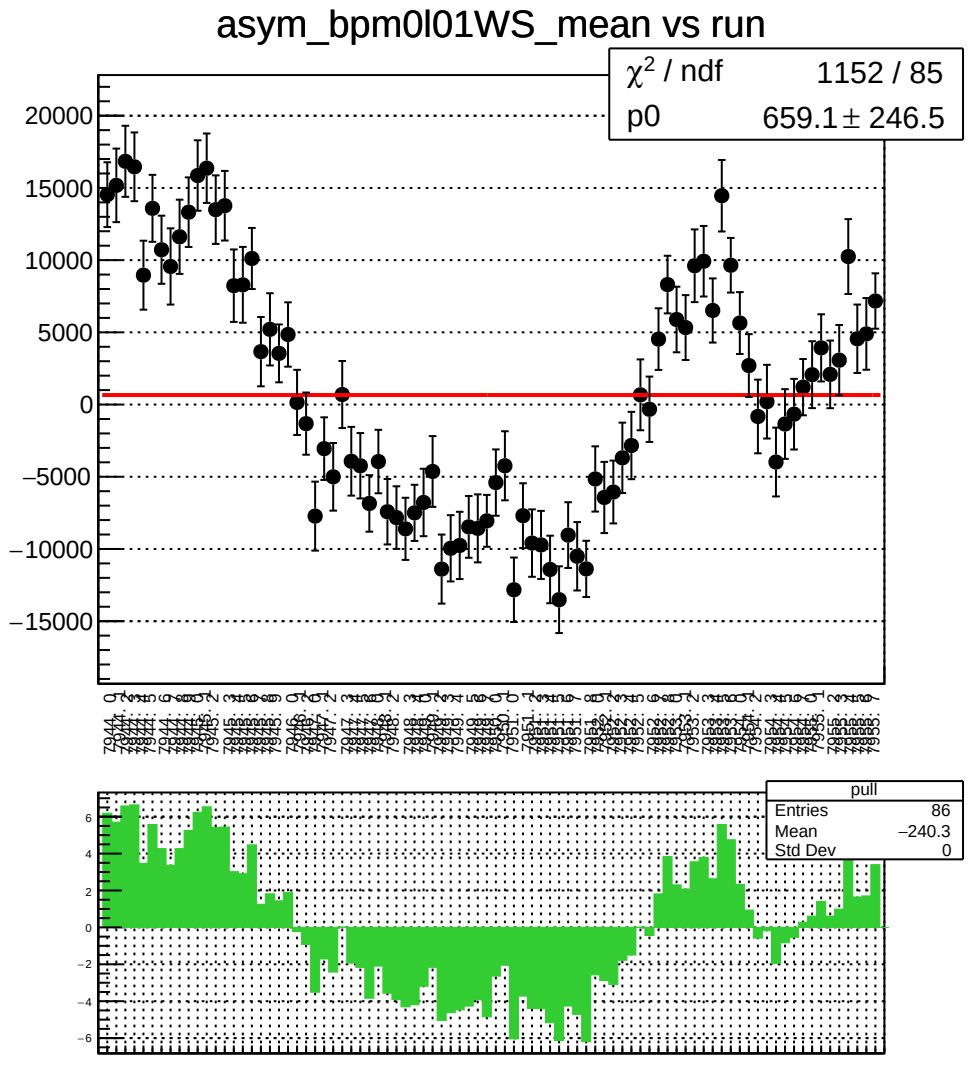

pull1D
Entries 86
Mean −0.2557
Std Dev 3.281

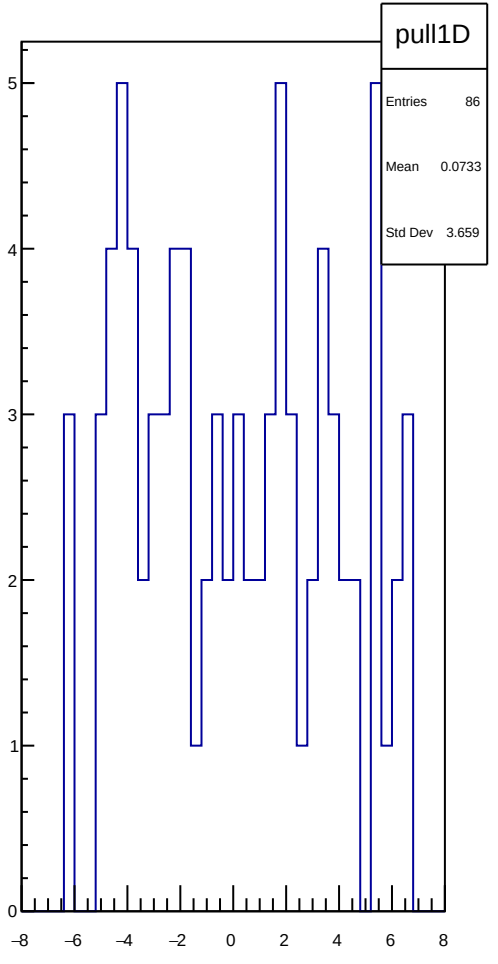

asym_bpm0i01WS_rms vs run
χ² / ndf 4915 / 85
p0 183.4 ± 0.1444
210
200
190
180
170
160

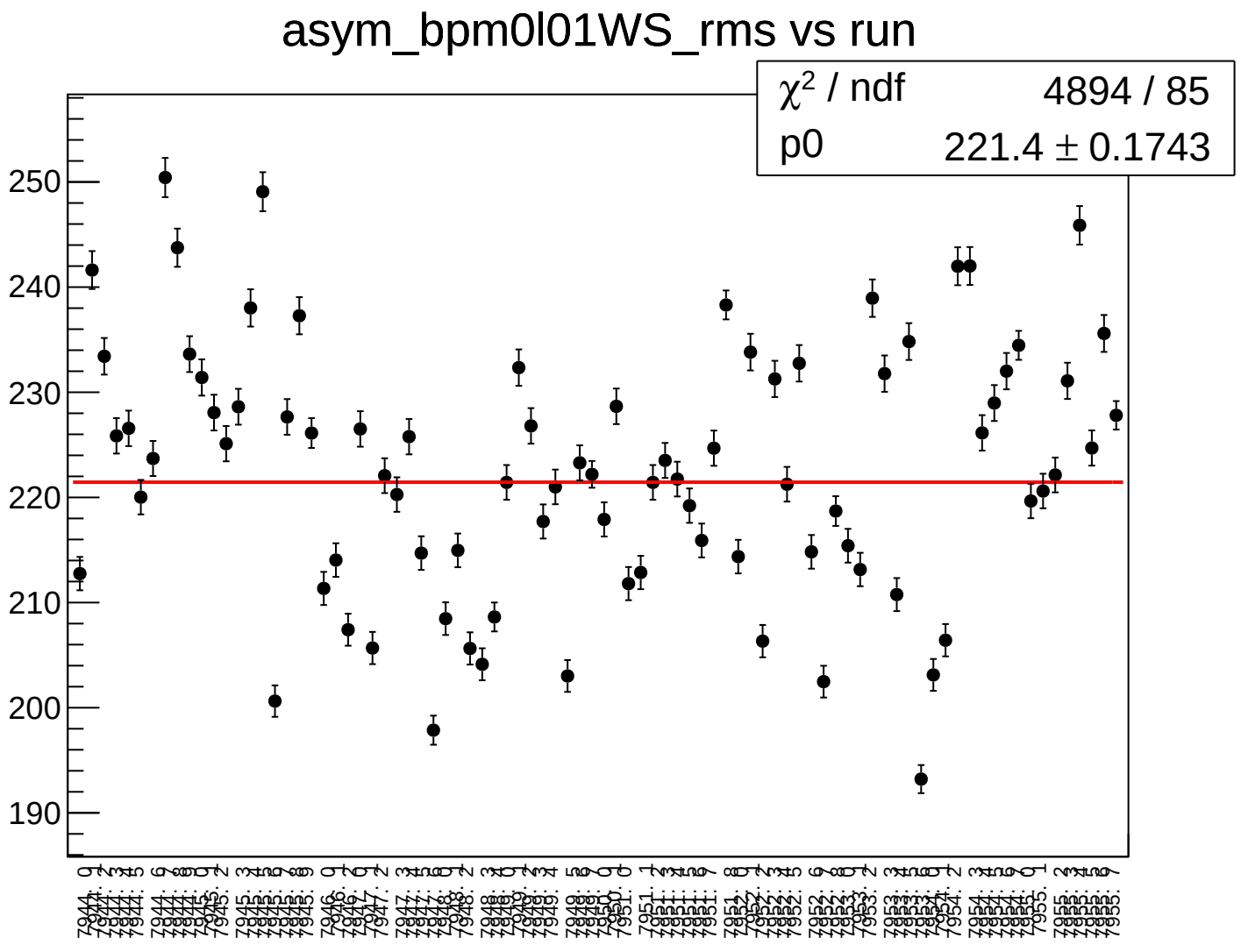

asym_bpm0i01aWS_mean vs run
χ² / ndf 1627 / 85
p0 5287 ± 177.5
25000
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −292.8
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

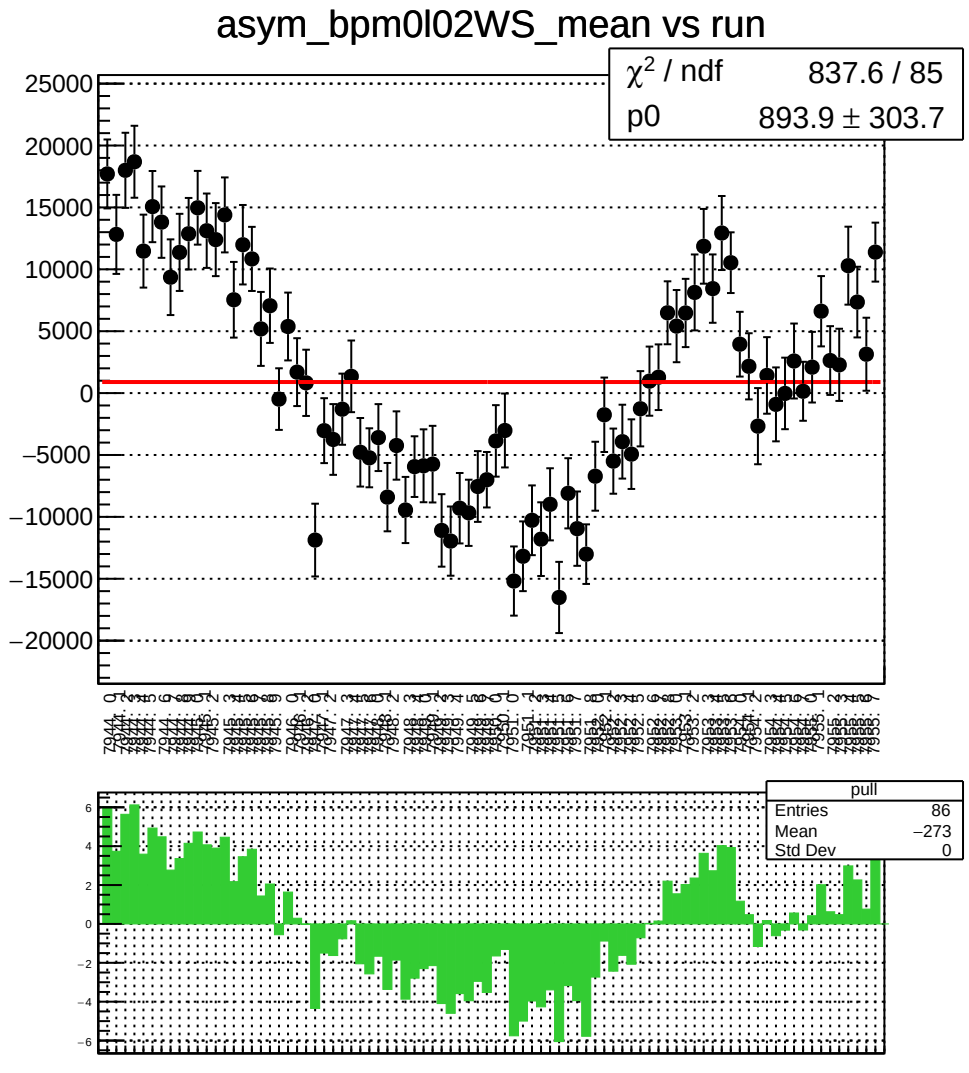

pull1D
Entries 86
Mean −0.5326
Std Dev 3.738
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

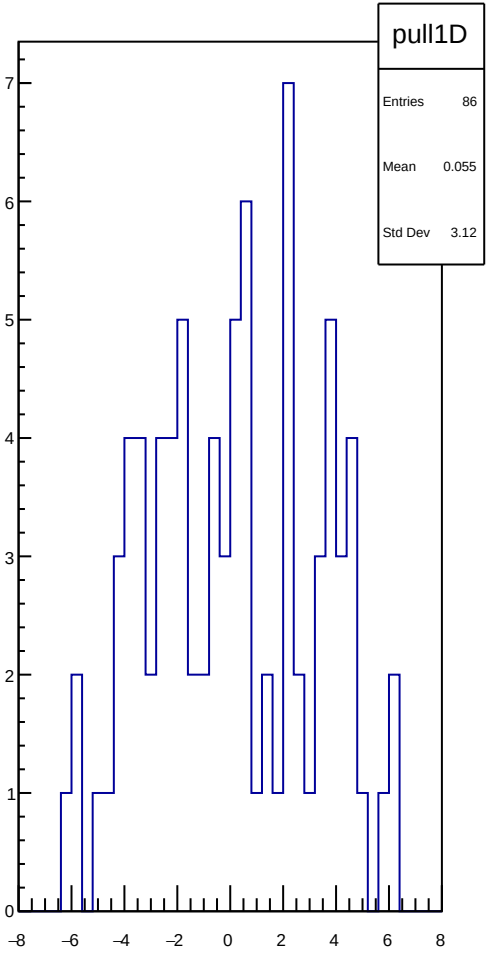

asym_bpm0i01aWS_rms vs run
χ² / ndf 5010 / 85
p0 159.4 ± 0.1255
180
170
160
150
140

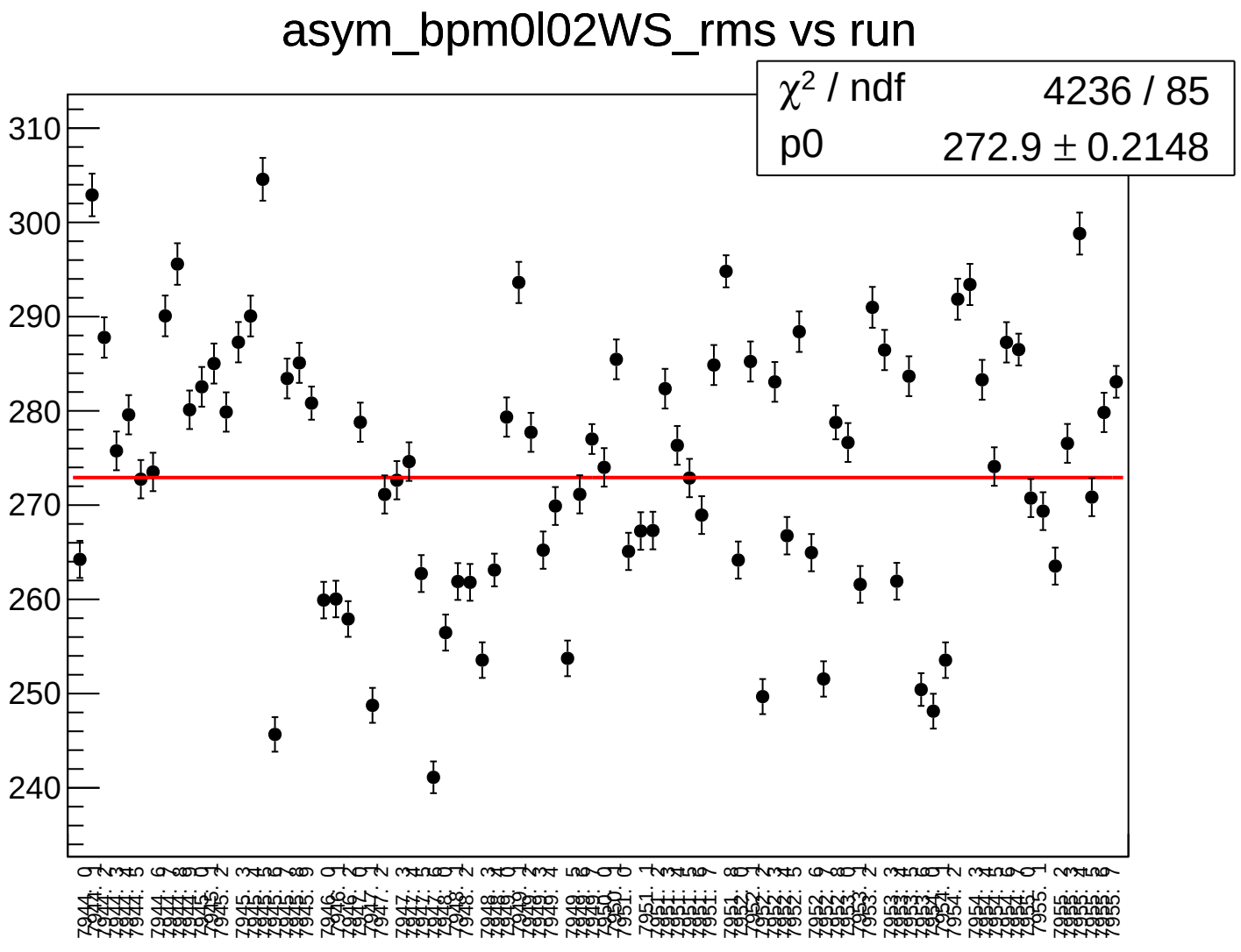

asym_bpm0l01WS_mean vs run
χ² / ndf 1152 / 85
p0 659.1 ± 246.5
pull
Entries 86
Mean −240.3
Std Dev 0

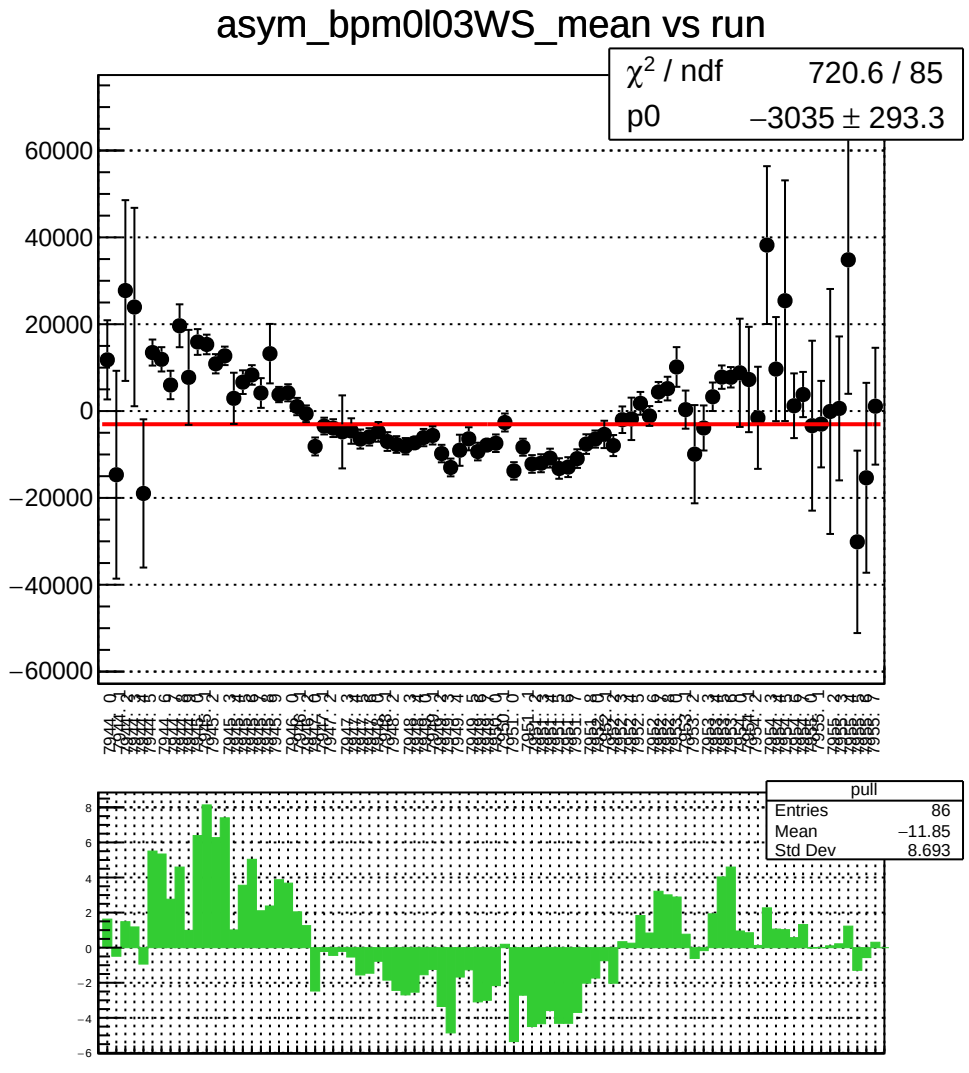

pull1D
Entries 86
Mean 0.0733
Std Dev 3.659

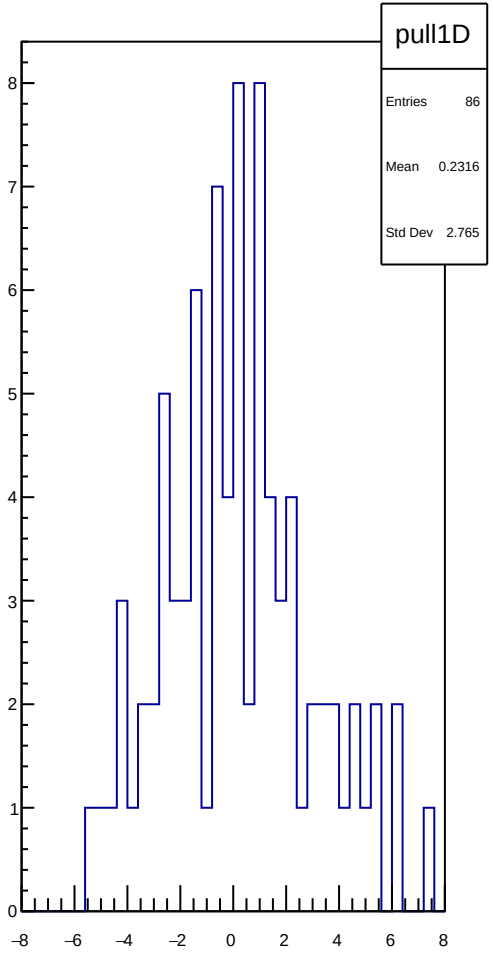

asym_bpm0l01WS_rms vs run
χ² / ndf 4894 / 85
p0 221.4 ± 0.1743
250
240
230
220
210
200
190

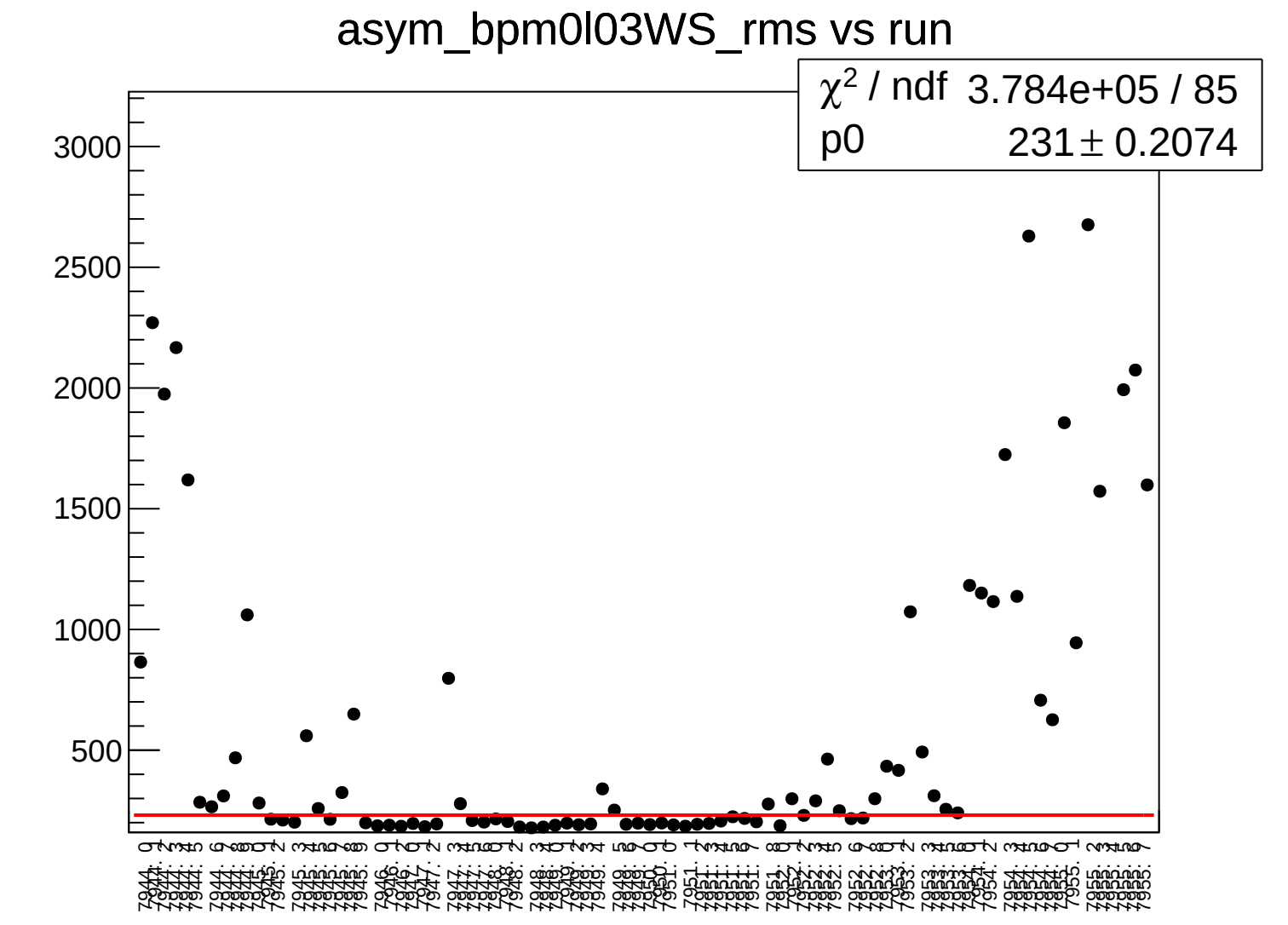

asym_bpm0l02WS_mean vs run
χ² / ndf 837.6 / 85
p0 893.9 ± 303.7
pull
Entries 86
Mean −273
Std Dev 0

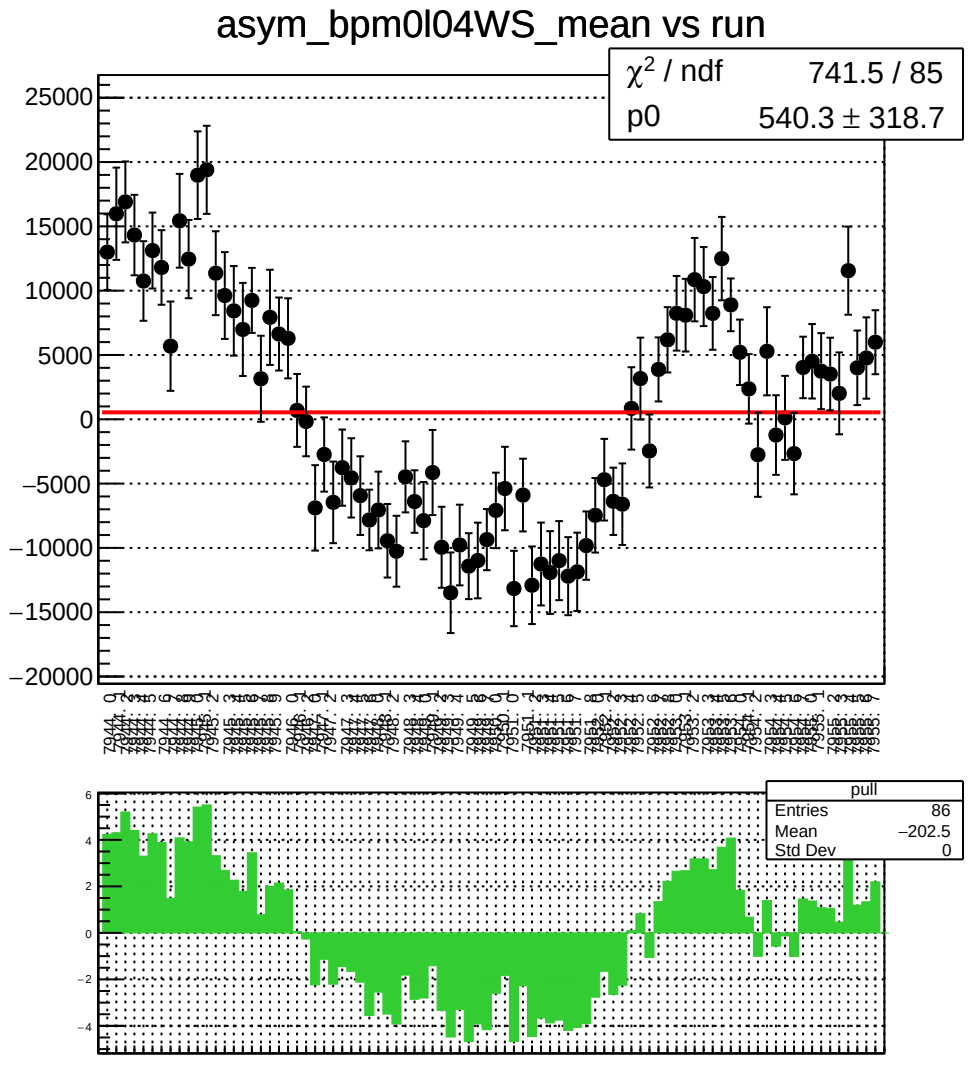

pull1D
Entries 86
Mean 0.055
Std Dev 3.12

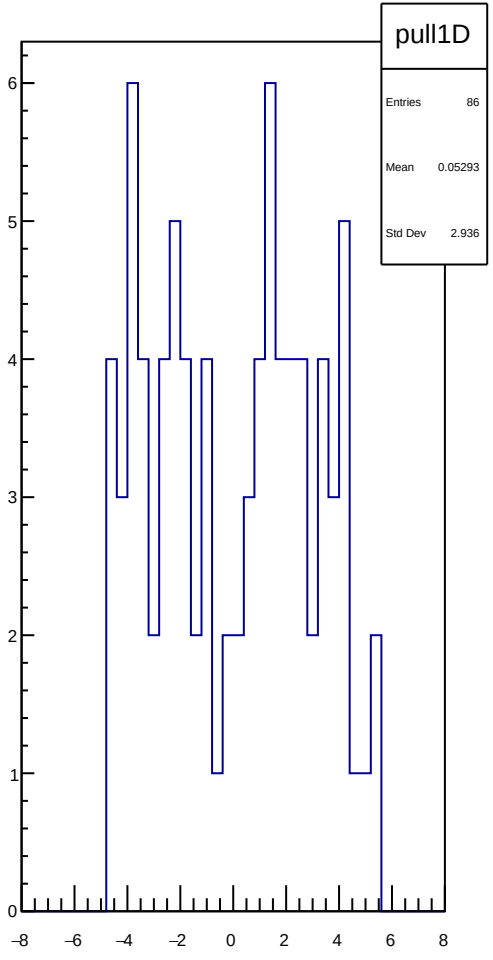

asym_bpm0l02WS_rms vs run
χ² / ndf 4236 / 85
p0 272.9 ± 0.2148
310
300
290
280
270
260
250
240

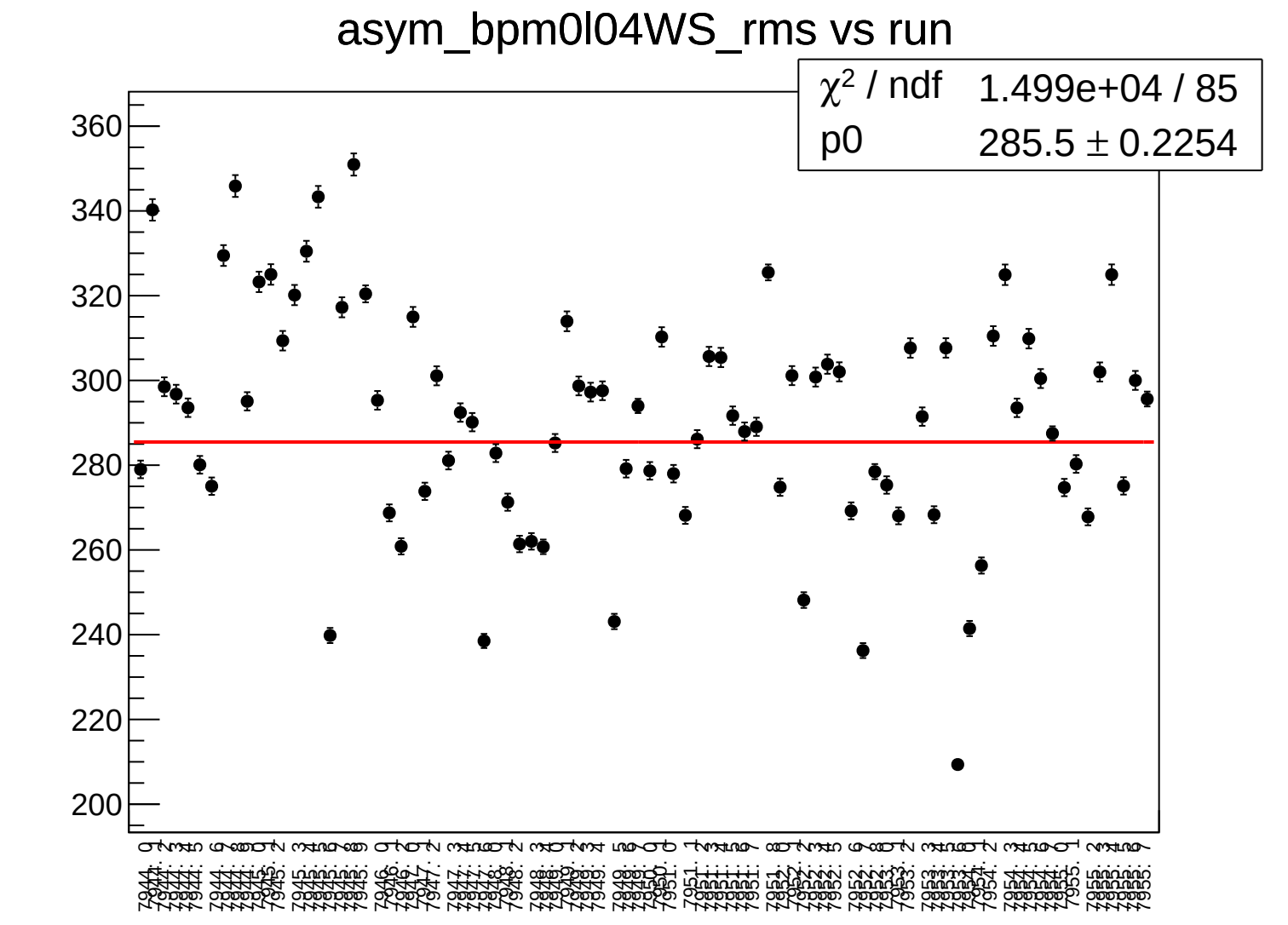

asym_bpm0l03WS_mean vs run
χ² / ndf 720.6 / 85
p0 −3035 ± 293.3
pull
Entries 86
Mean −11.85
Std Dev 8.693

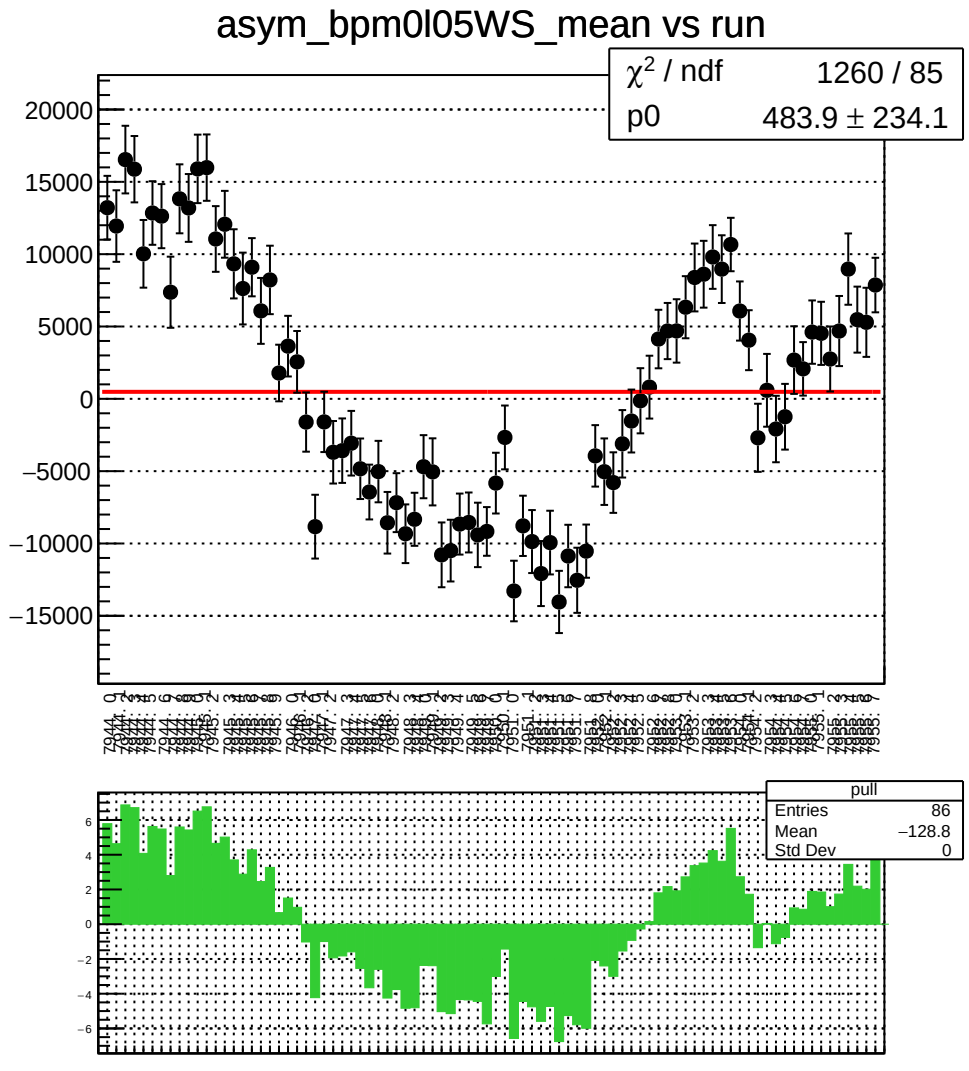

pull1D
Entries 86
Mean 0.2316
Std Dev 2.765

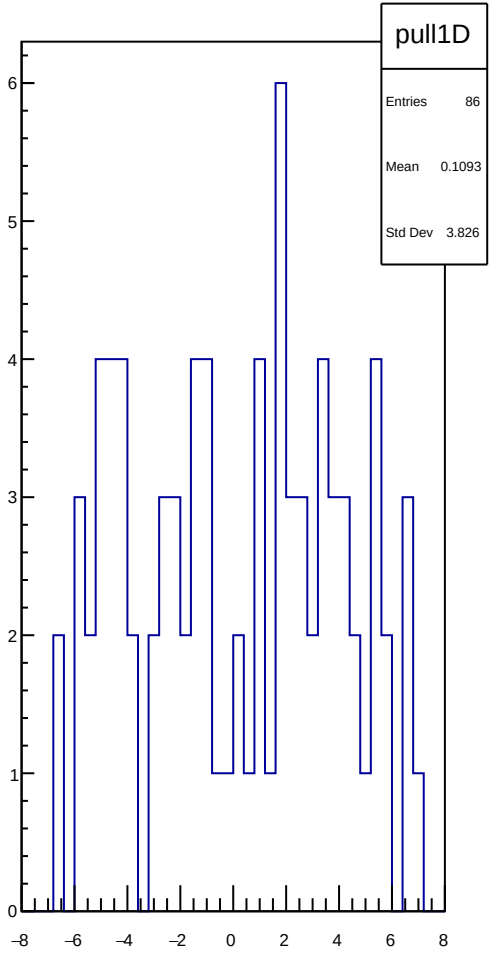

asym_bpm0l03WS_rms vs run
χ² / ndf 3.784e+05 / 85
p0 231 ± 0.2074
3000
2500
2000
1500
1000
500

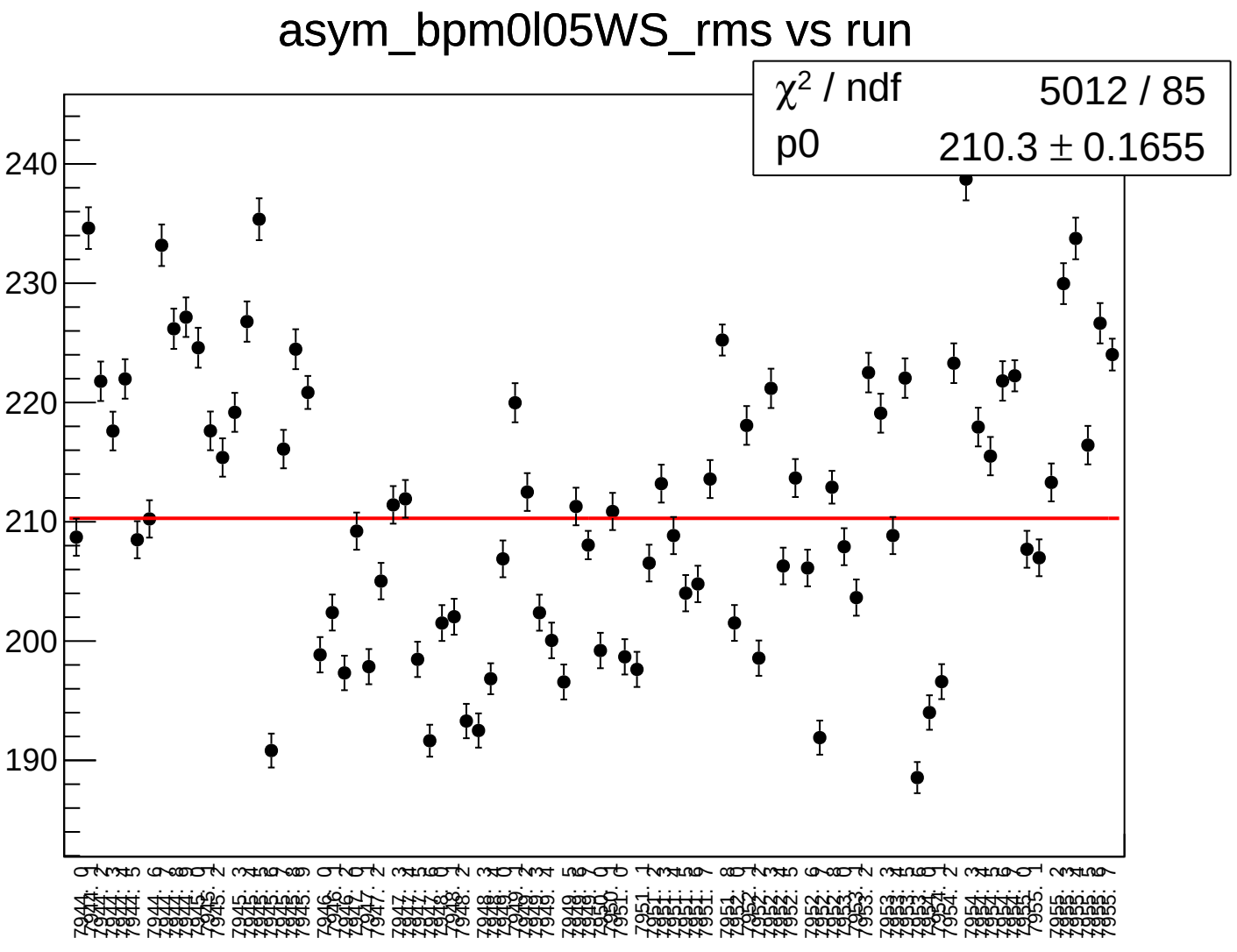

asym_bpm0l04WS_mean vs run
χ² / ndf 741.5 / 85
p0 540.3 ± 318.7
pull
Entries 86
Mean −202.5
Std Dev 0

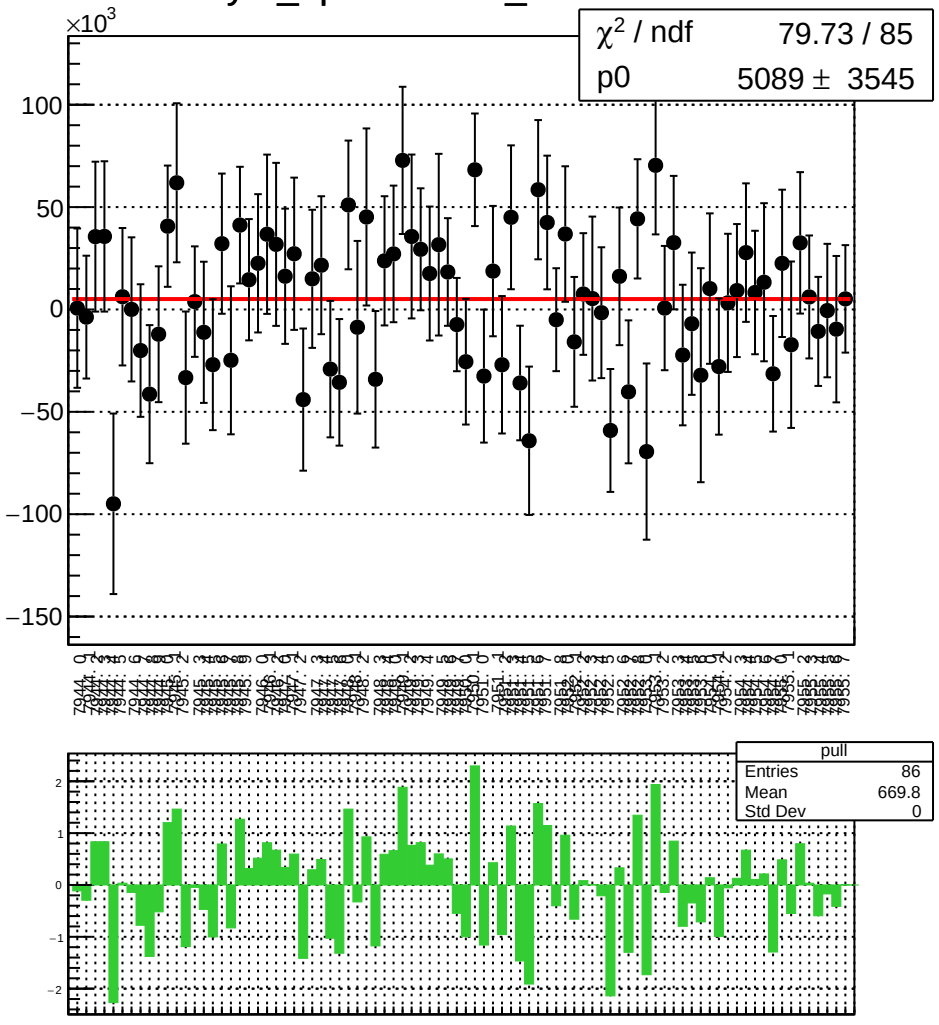

pull1D
Entries 86
Mean 0.05293
Std Dev 2.936

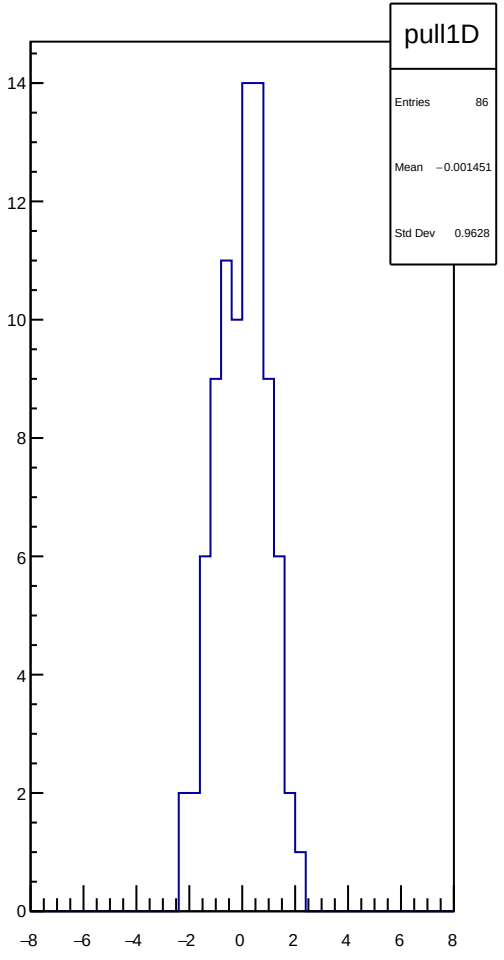

asym_bpm0l04WS_rms vs run
χ^2 / ndf 1.499e+04 / 85
p0 285.5 ± 0.2254
360
340
320
300
280
260
240
220
200

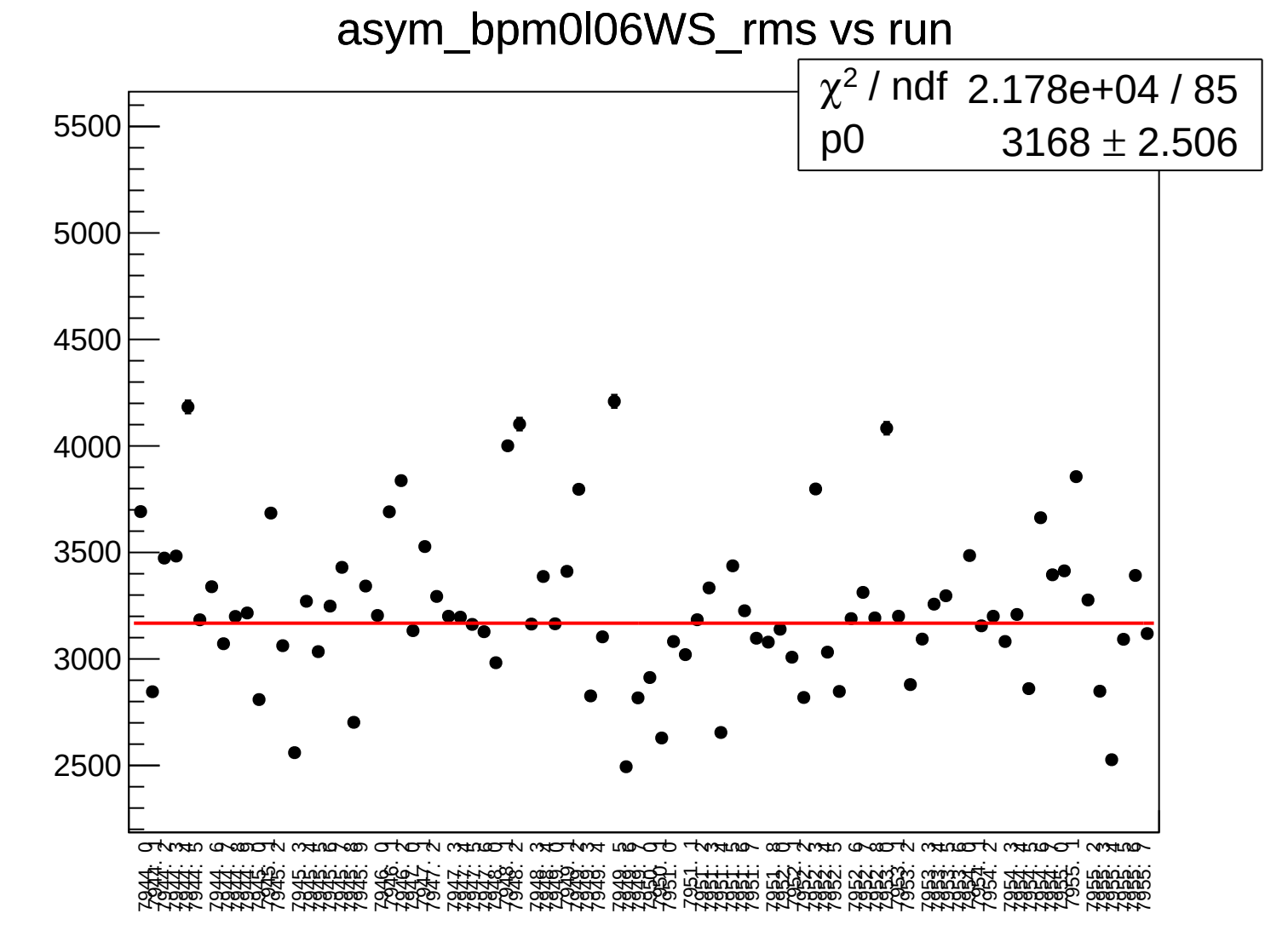

asym_bpm0l05WS_mean vs run
χ² / ndf 1260 / 85
p0 483.9 ± 234.1
pull
Entries 86
Mean −128.8
Std Dev 0

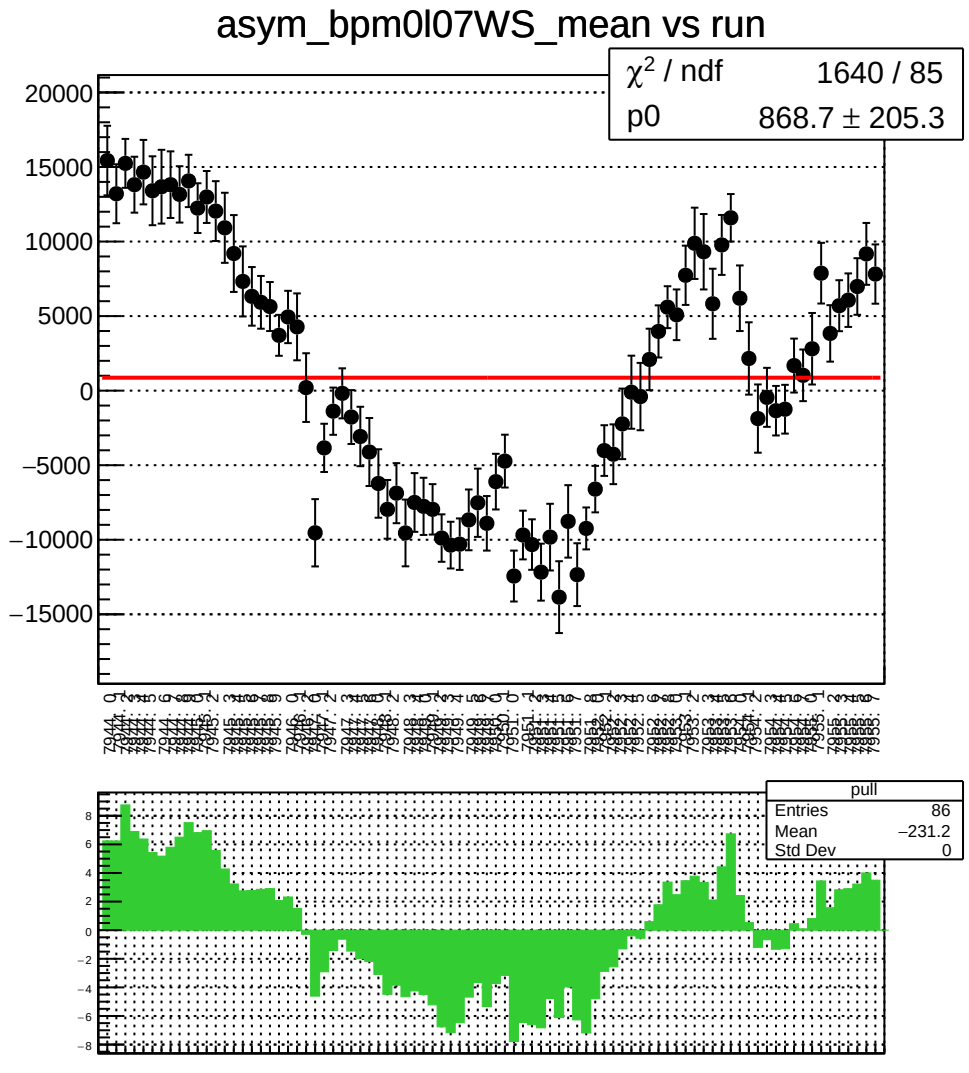

pull1D
Entries 86
Mean 0.1093
Std Dev 3.826

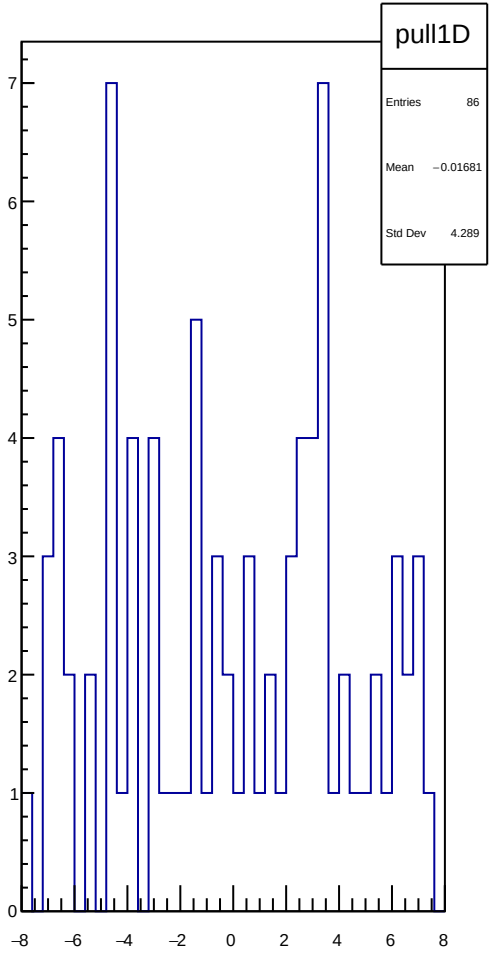

asym_bpm0l05WS_rms vs run
χ² / ndf 5012 / 85
p0 210.3 ± 0.1655
240
230
220
210
200
190

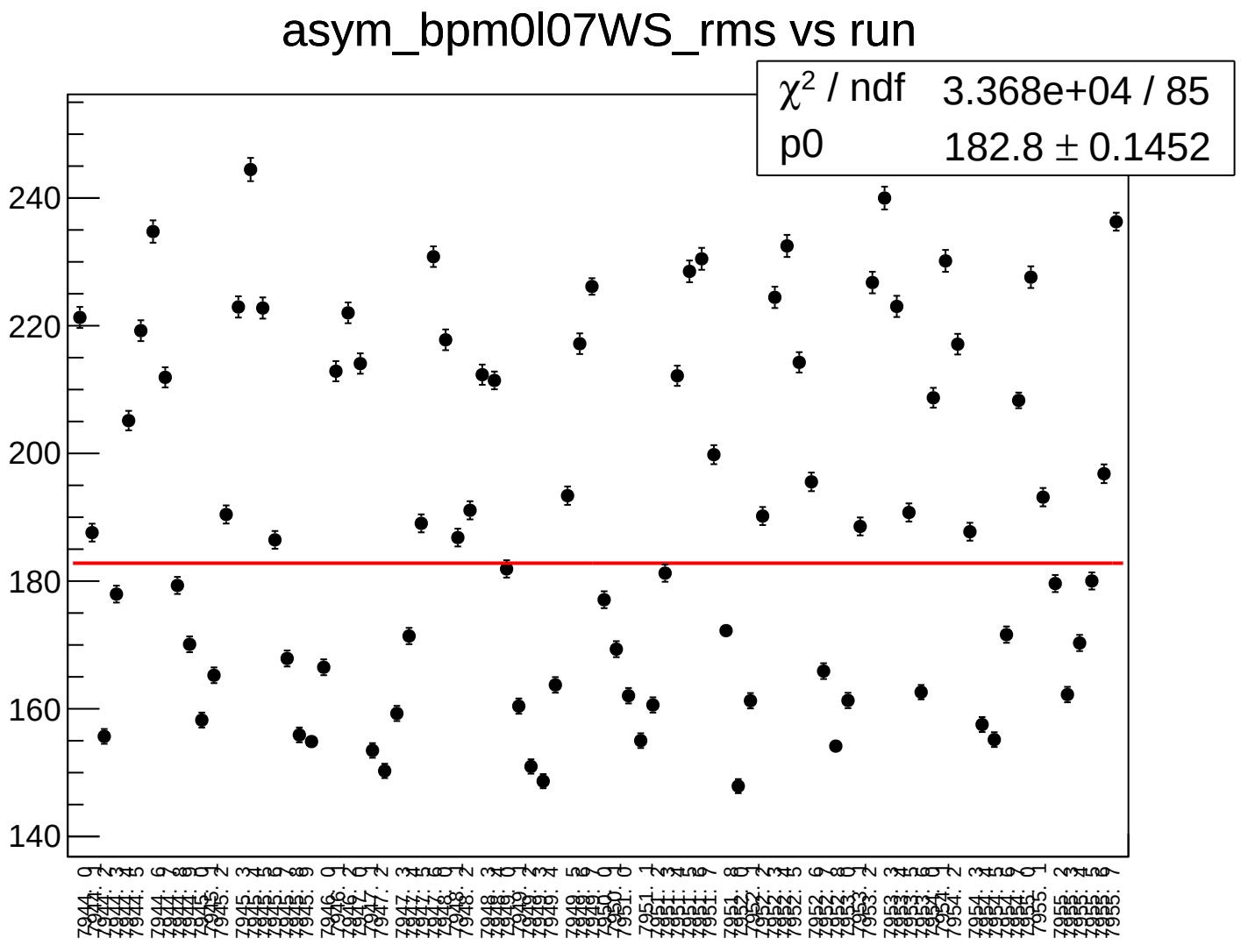

asym_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 79.73 / 85
p0 5089 ± 3545
pull
Entries 86
Mean 669.8
Std Dev 0

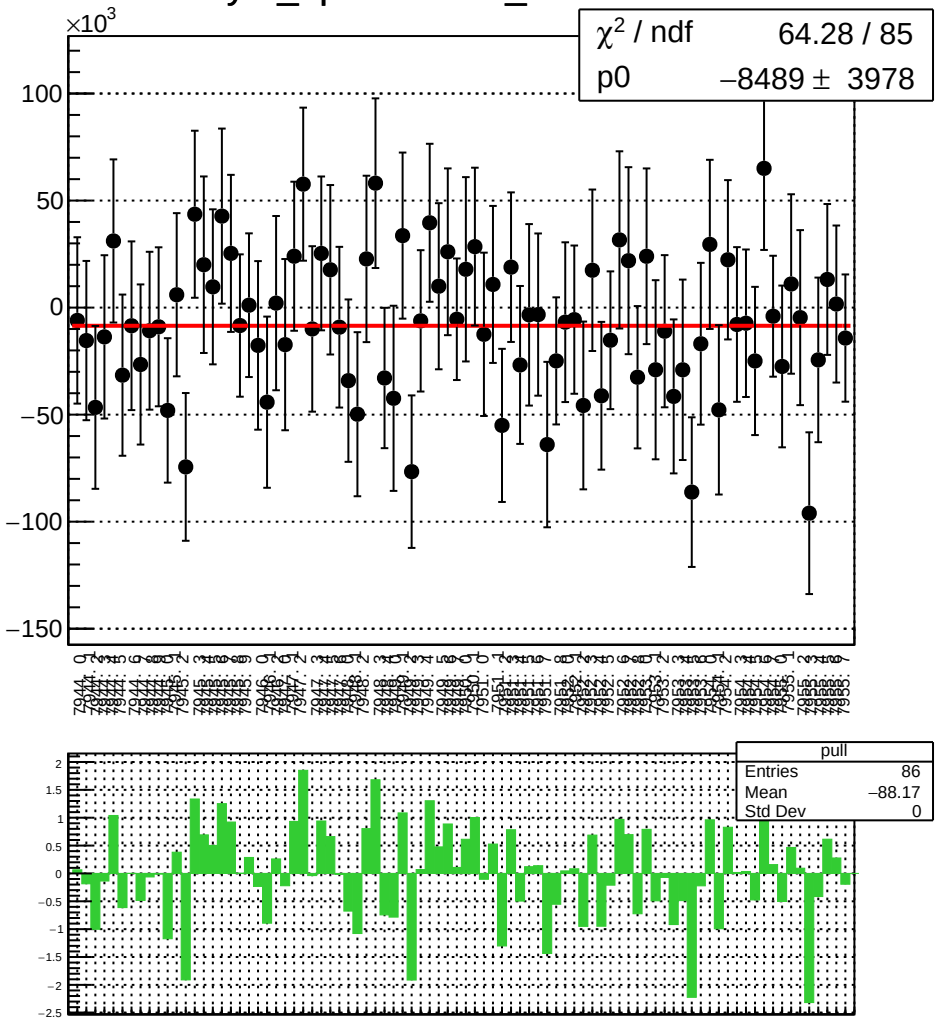

pull1D
Entries 86
Mean −0.001451
Std Dev 0.9628

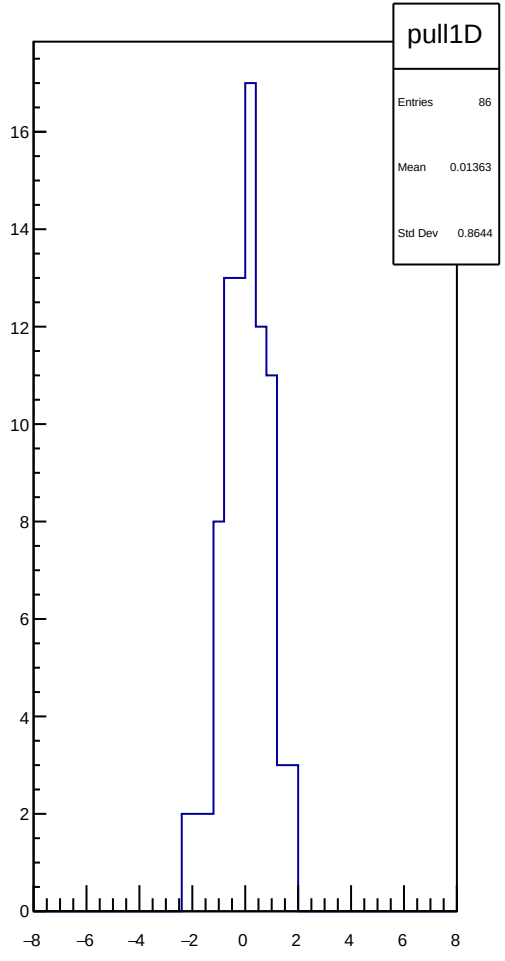

asym_bpm0l06WS_rms vs run
χ^2 / ndf 2.178e+04 / 85
p0 3168 ± 2.506
5500
5000
4500
4000
3500
3000
2500

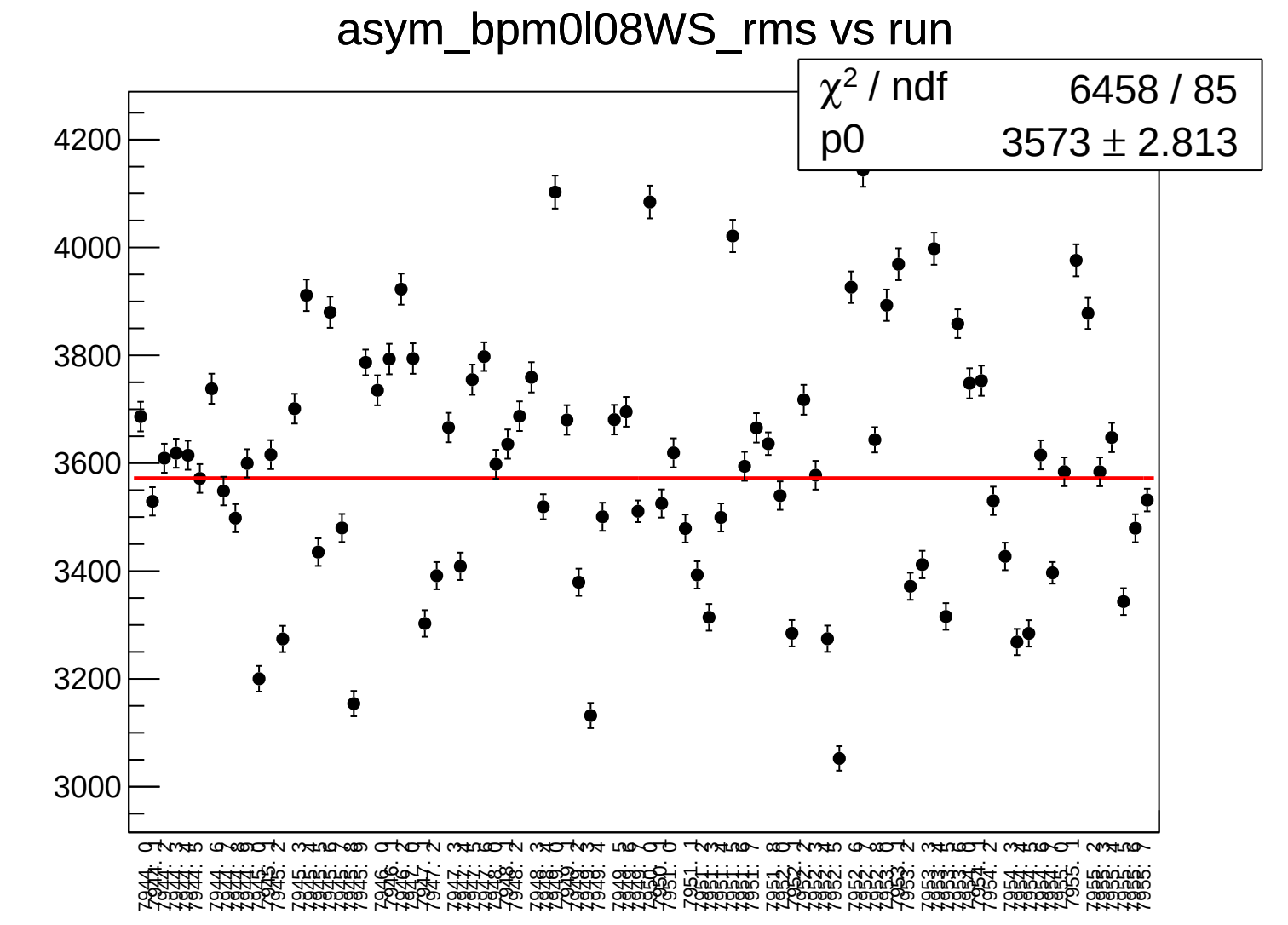

asym_bpm0l07WS_mean vs run
χ² / ndf 1640 / 85
p0 868.7 ± 205.3
pull
Entries 86
Mean −231.2
Std Dev 0

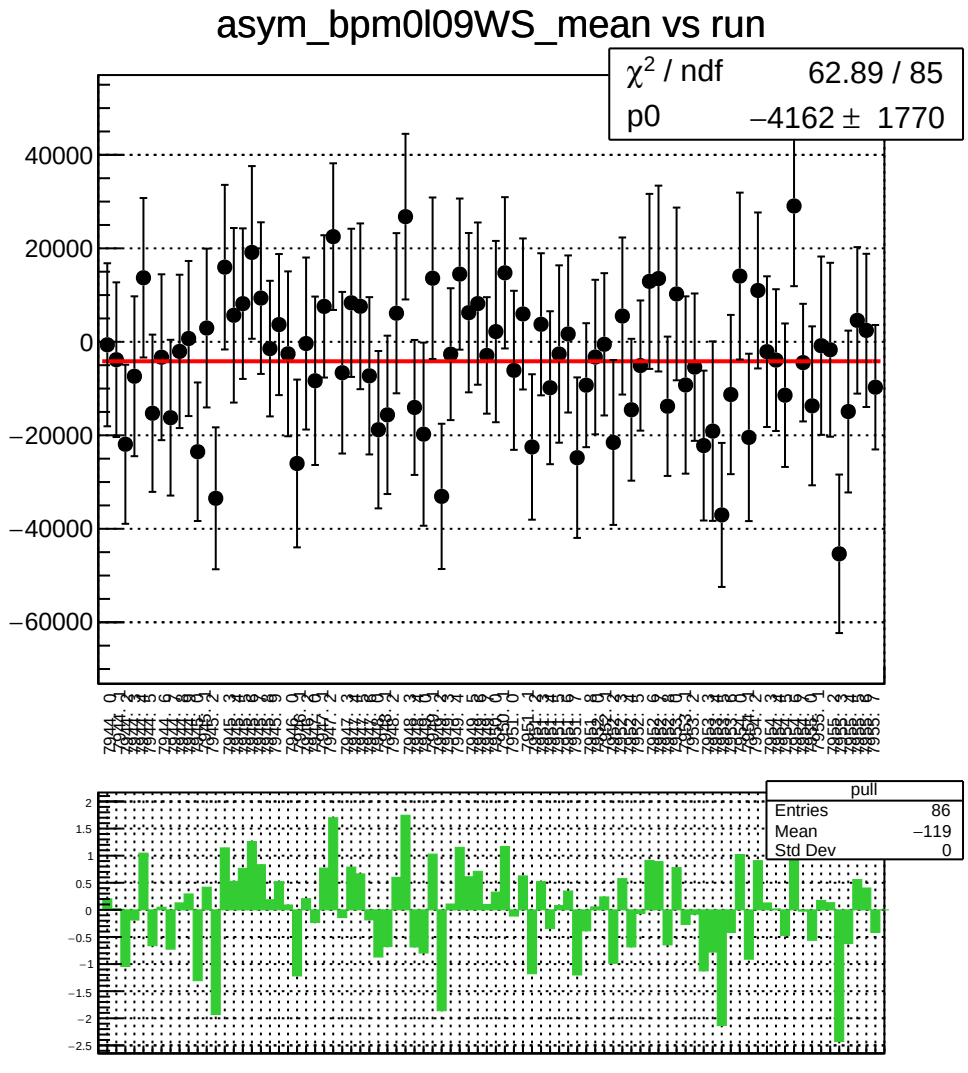

pull1D
Entries 86
Mean −0.01681
Std Dev 4.289

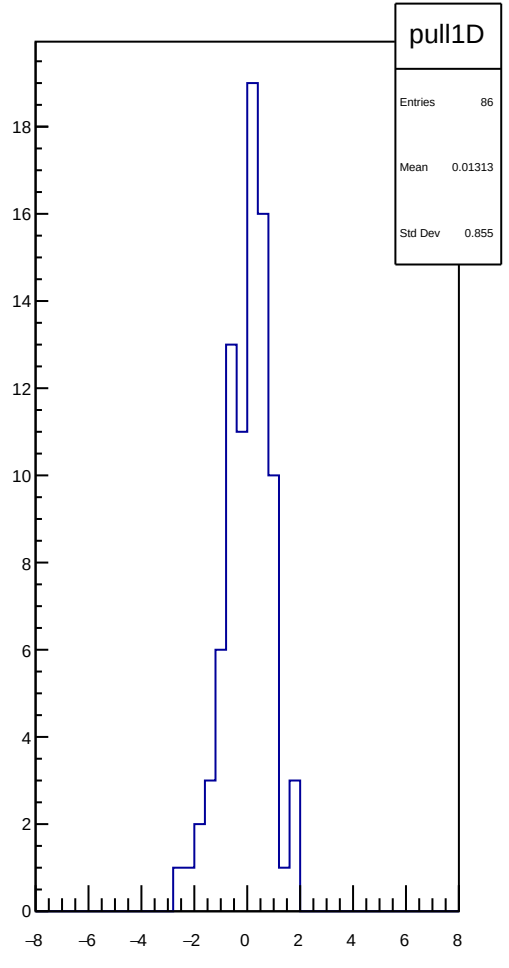

asym_bpm0l07WS_rms vs run
χ² / ndf 3.368e+04 / 85
p0 182.8 ± 0.1452
240
220
200
180
160
140

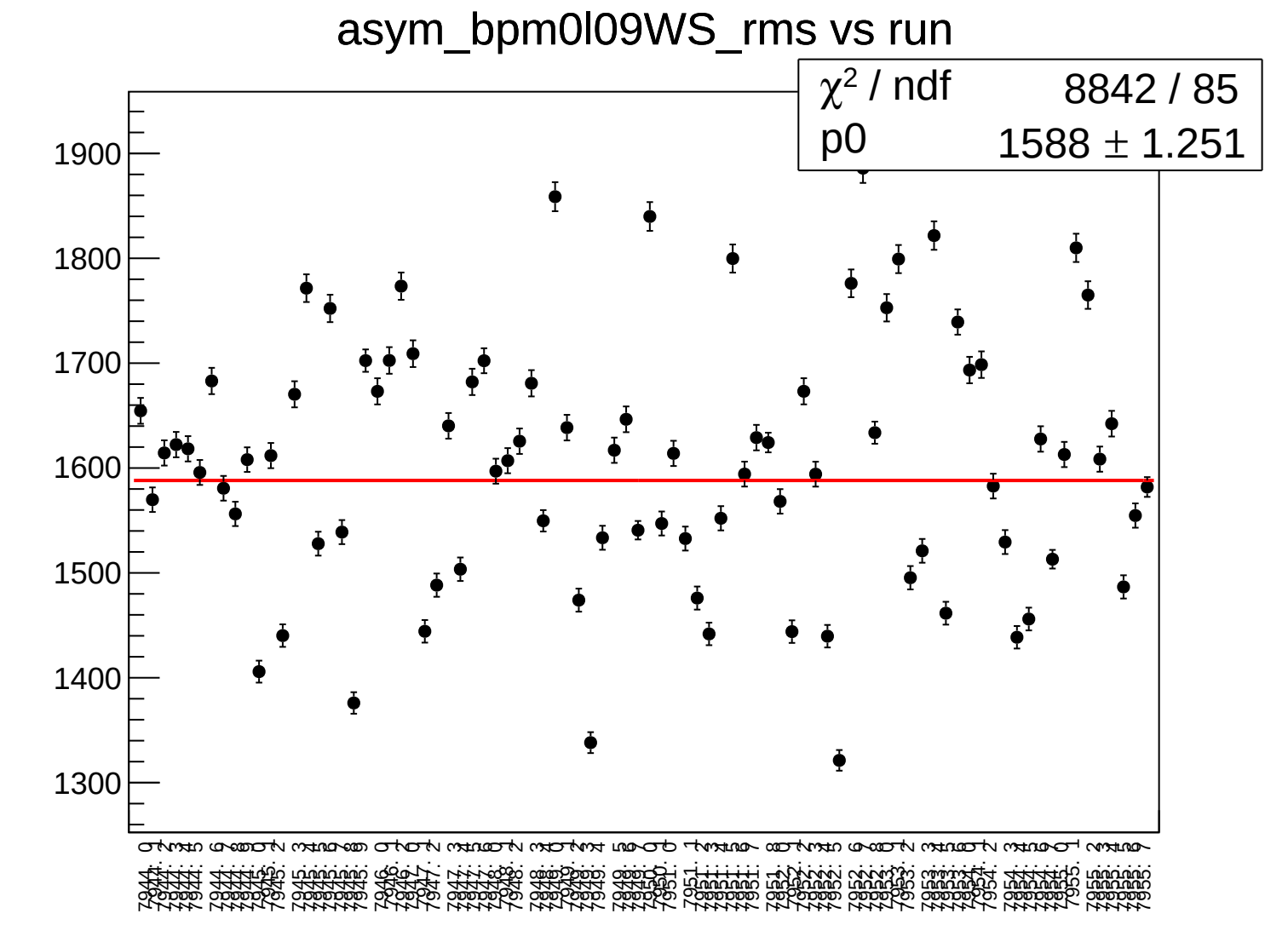

asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 64.28 / 85
p0 −8489 ± 3978
100
50
0
−50
−100
−150
pull
Entries 86
Mean −88.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

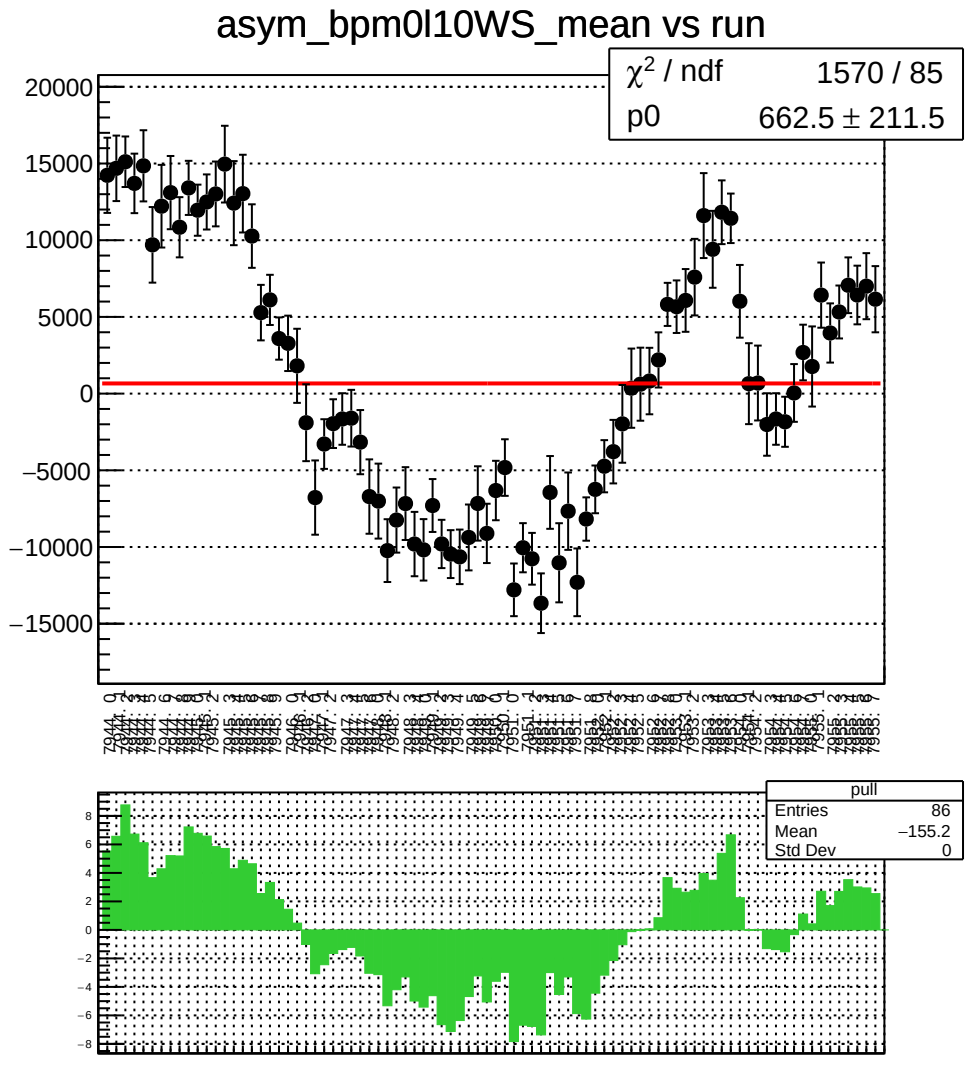

pull1D
Entries 86
Mean 0.01363
Std Dev 0.8644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

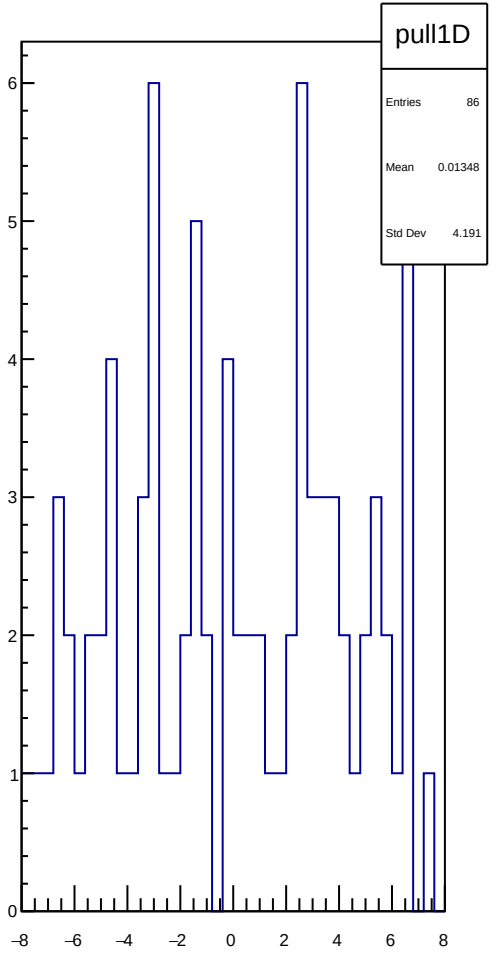

asym_bpm0l08WS_rms vs run
χ² / ndf 6458 / 85
p0 3573 ± 2.813
4200
4000
3800
3600
3400
3200
3000

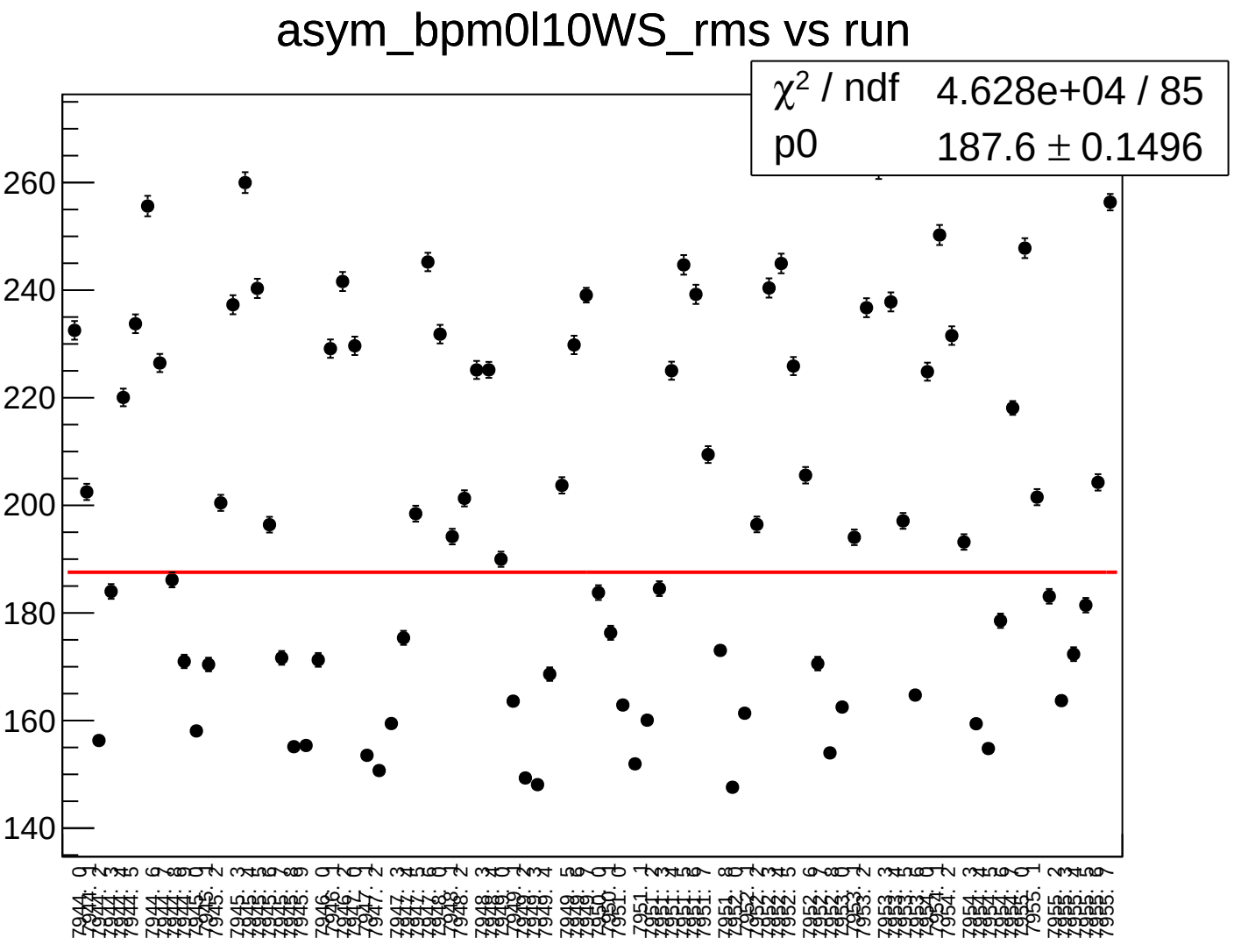

asym_bpm0l09WS_mean vs run
χ² / ndf 62.89 / 85
p0 −4162 ± 1770
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −119
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

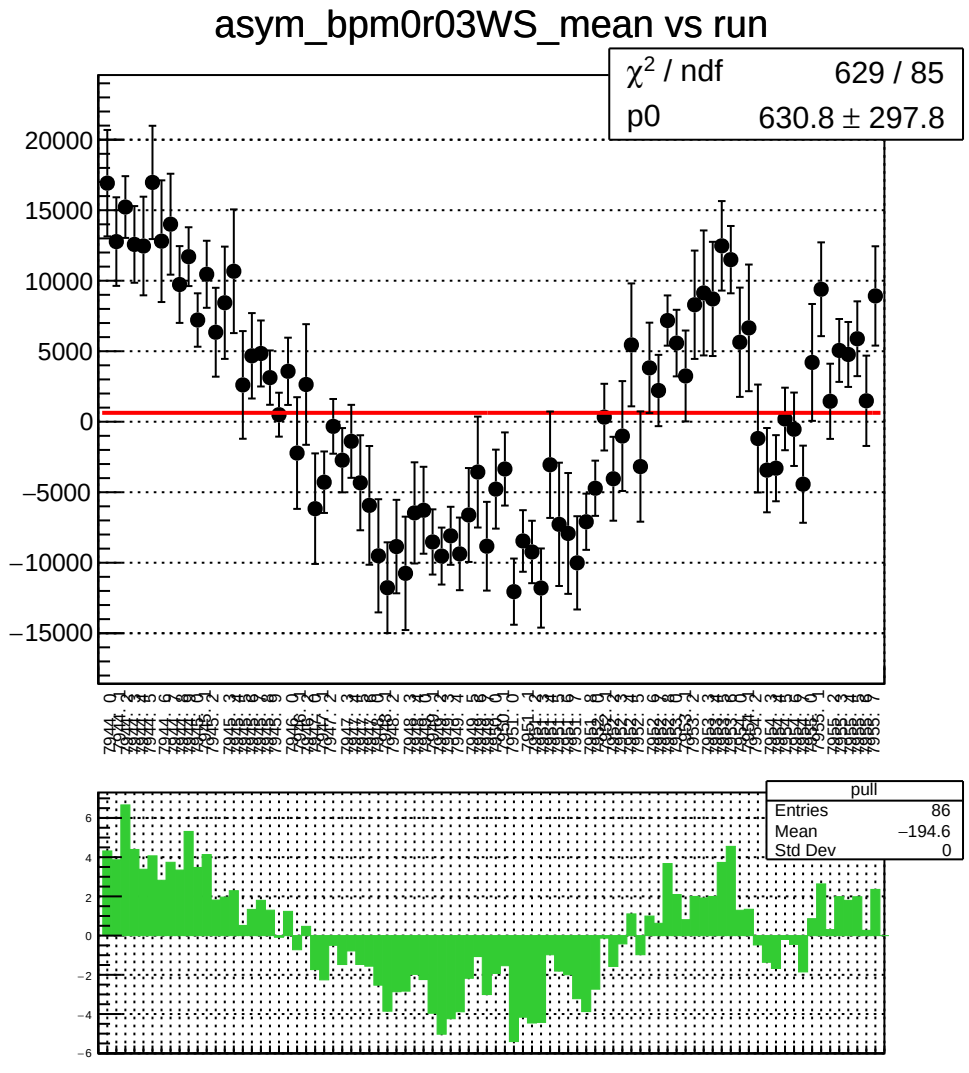

pull1D
Entries 86
Mean 0.01313
Std Dev 0.855
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

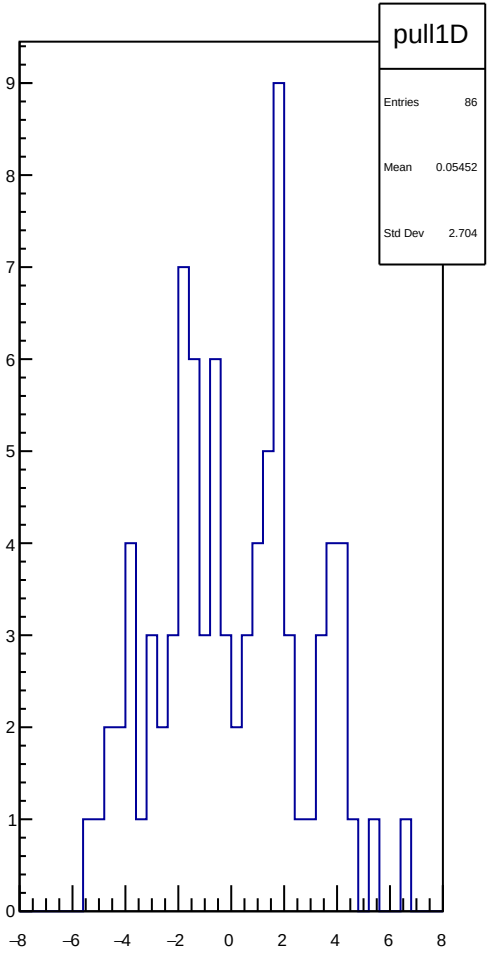

asym_bpm0l09WS_rms vs run
χ² / ndf 8842 / 85
p0 1588 ± 1.251
1900
1800
1700
1600
1500
1400
1300

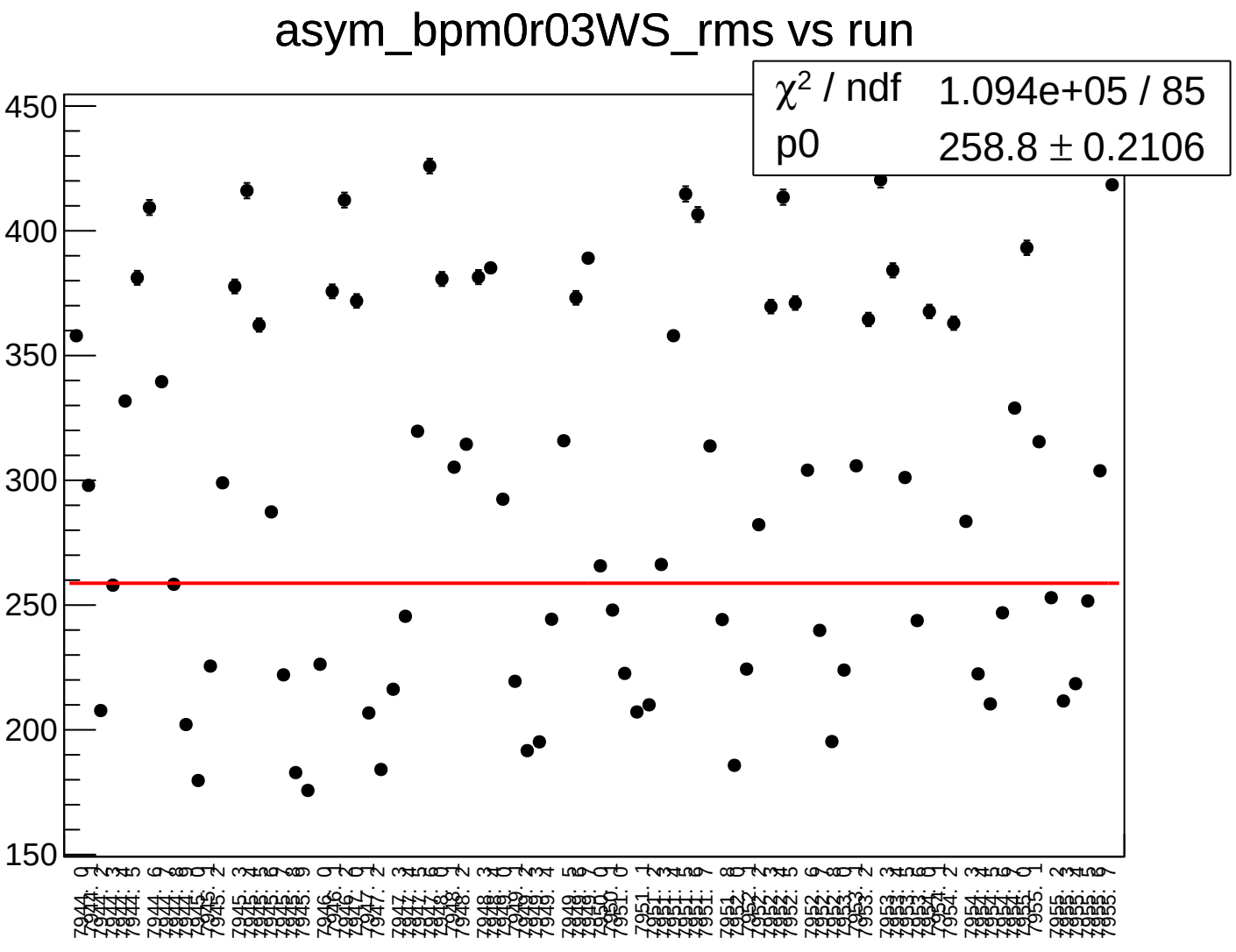

asym_bpm0l10WS_mean vs run
χ² / ndf 1570 / 85
p0 662.5 ± 211.5
pull
Entries 86
Mean −155.2
Std Dev 0

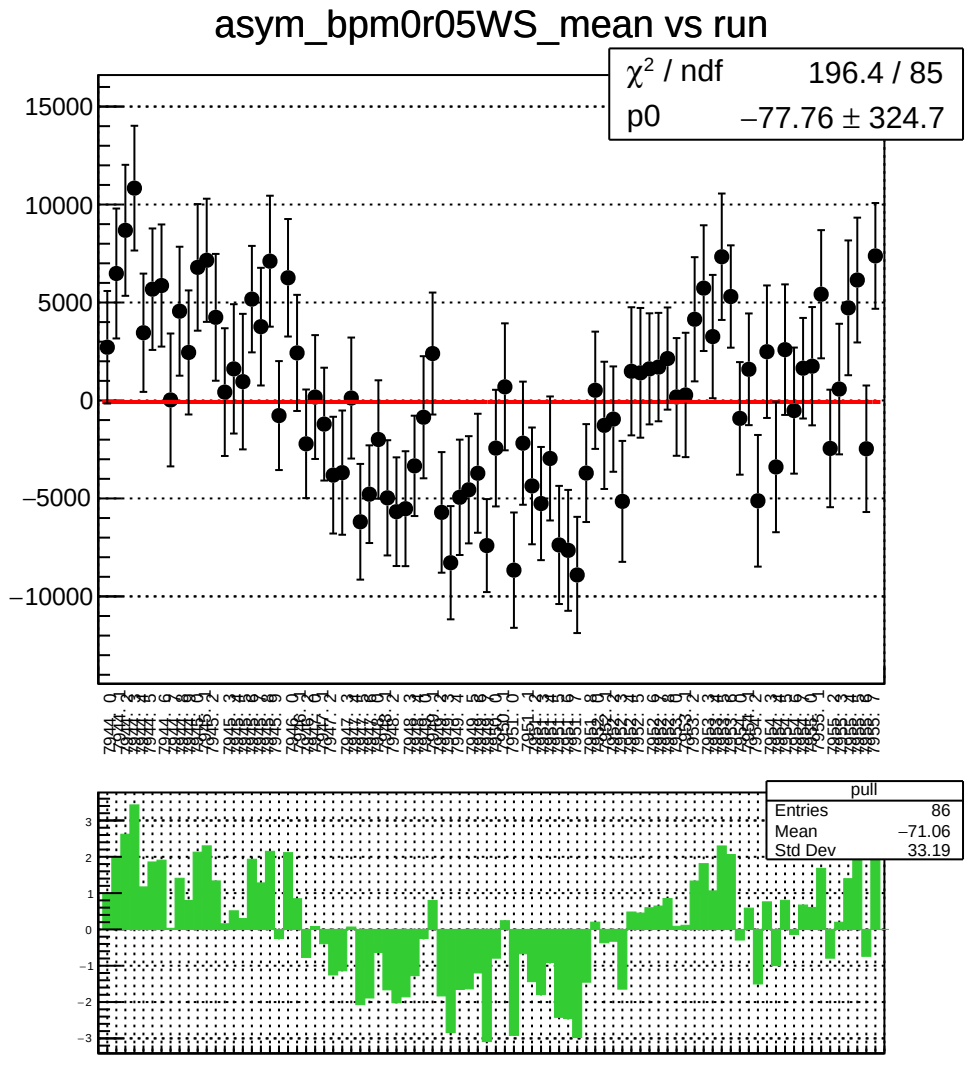

pull1D
Entries 86
Mean 0.01348
Std Dev 4.191

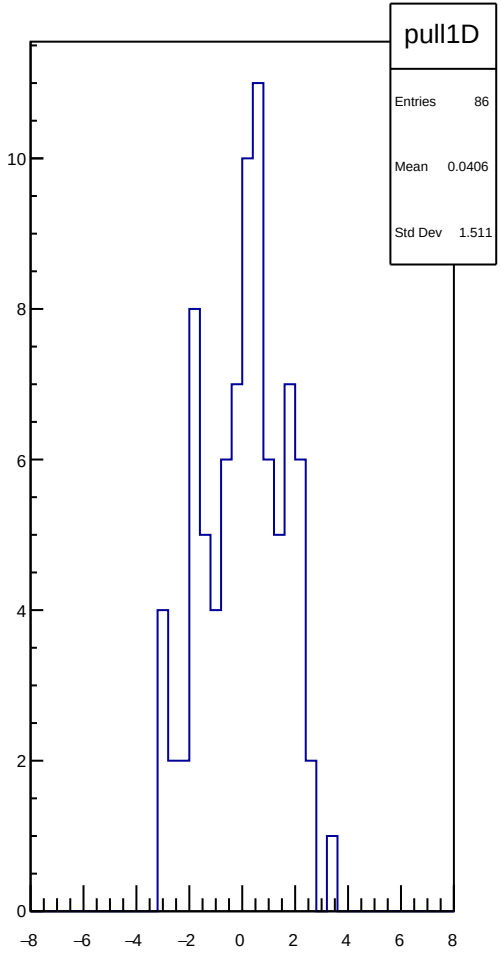

asym_bpm0l10WS_rms vs run
χ² / ndf 4.628e+04 / 85
p0 187.6 ± 0.1496
260
240
220
200
180
160
140

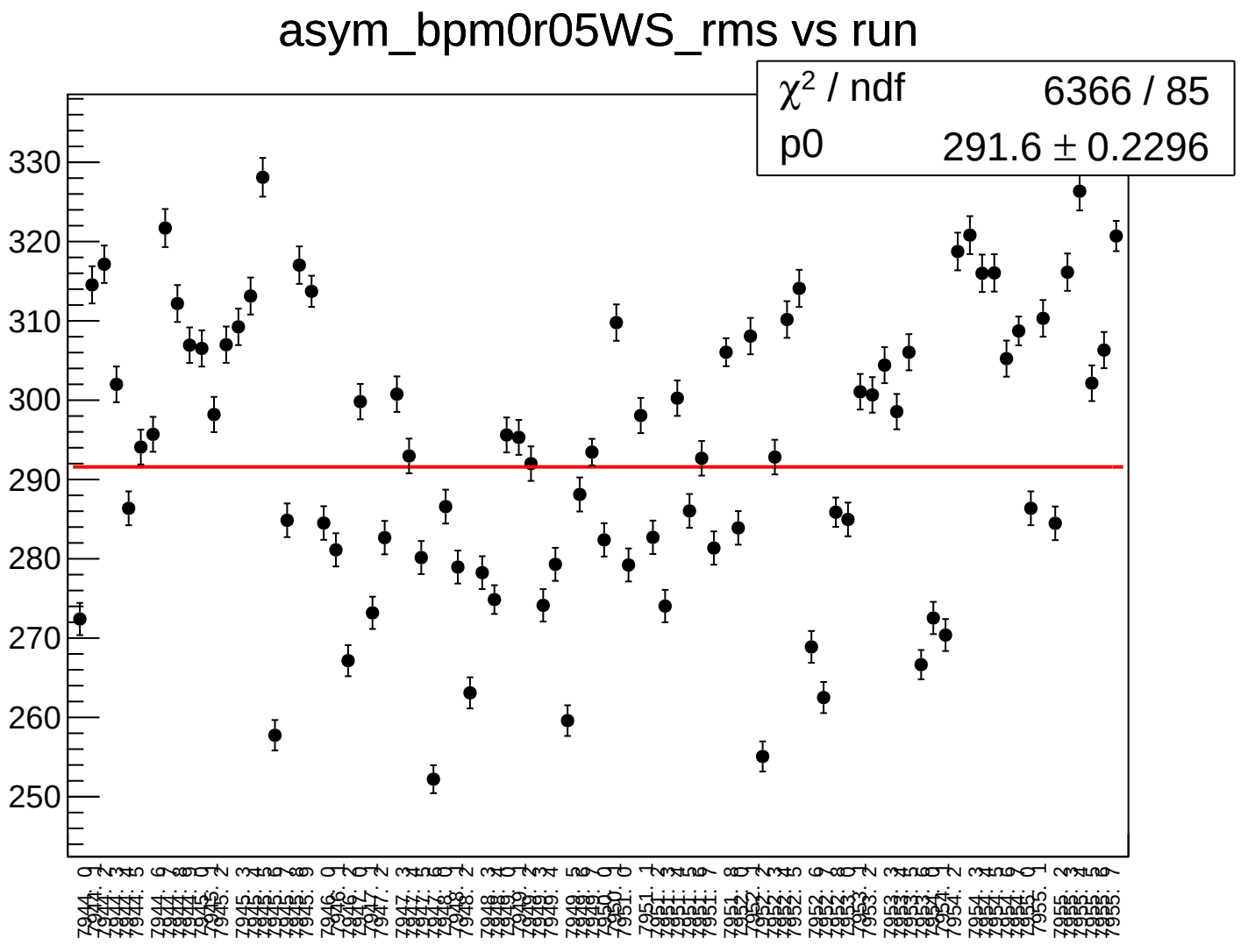

asym_bpm0r03WS_mean vs run
χ² / ndf 629 / 85
p0 630.8 ± 297.8
pull
Entries 86
Mean −194.6
Std Dev 0

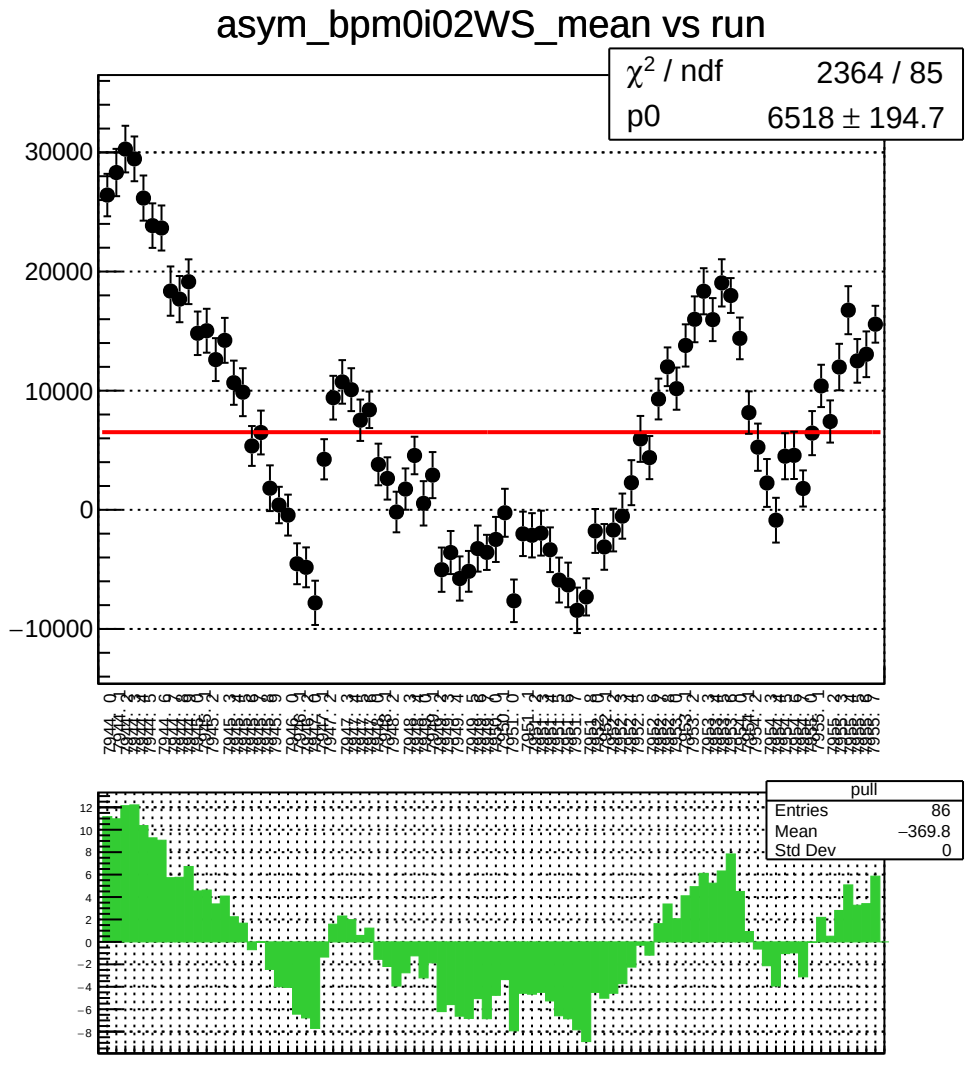

pull1D
Entries 86
Mean 0.05452
Std Dev 2.704

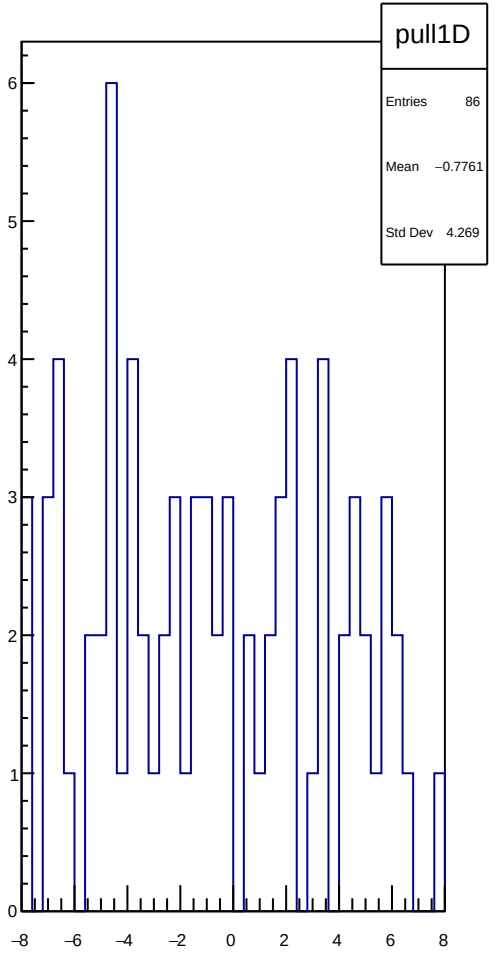

asym_bpm0r03WS_rms vs run
χ^2 / ndf 1.094e+05 / 85
p0 258.8 ± 0.2106
450
400
350
300
250
200
150

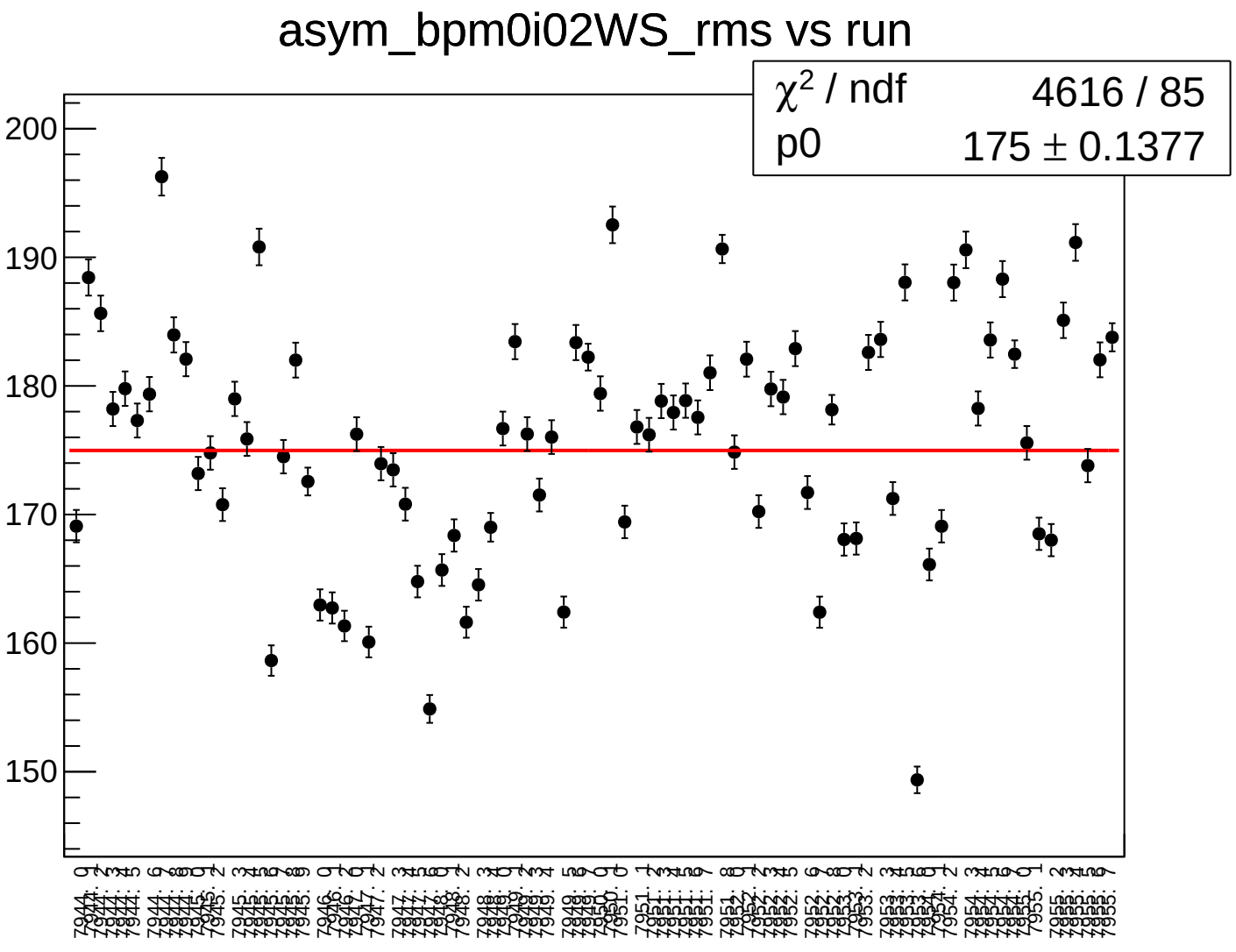

asym_bpm0r05WS_mean vs run
χ² / ndf 196.4 / 85
p0 −77.76 ± 324.7
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −71.06
Std Dev 33.19
3
2
1
0
−1
−2
−3

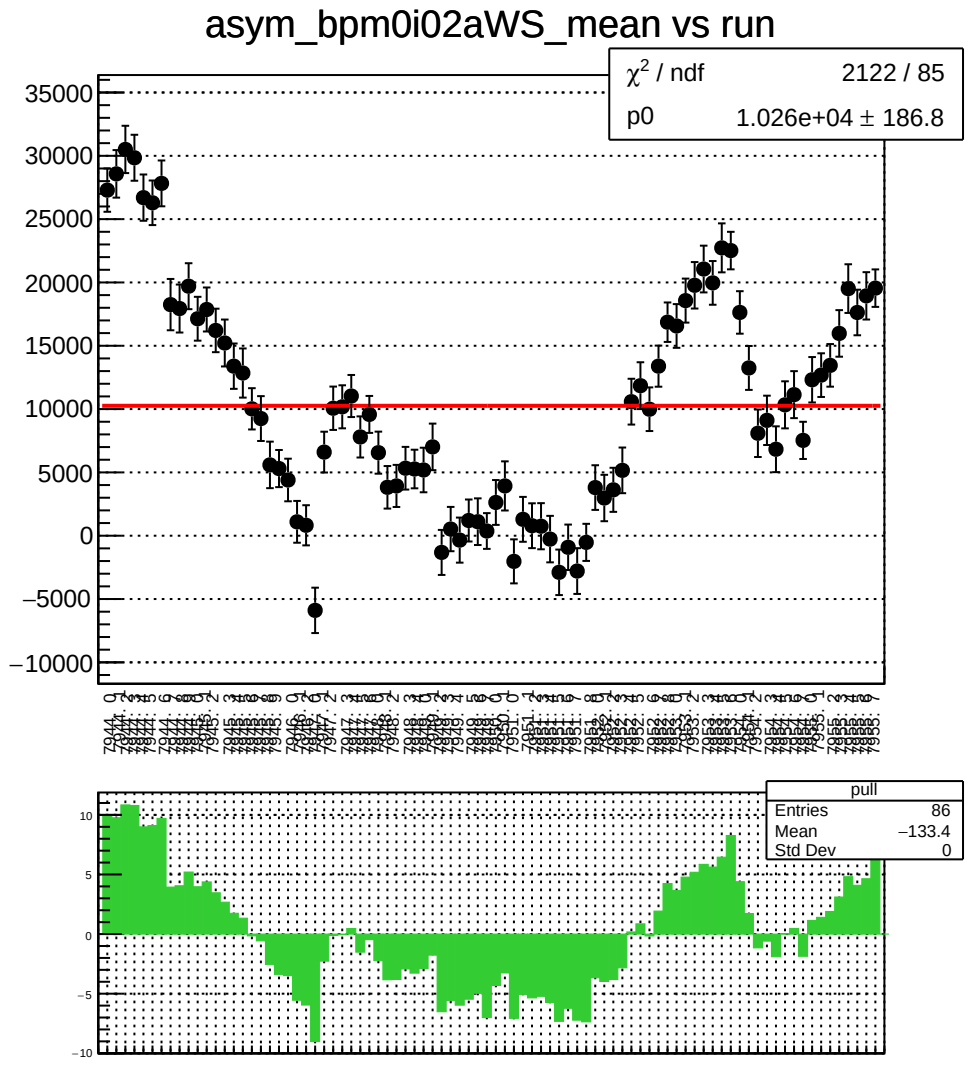

pull1D
Entries 86
Mean 0.0406
Std Dev 1.511
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

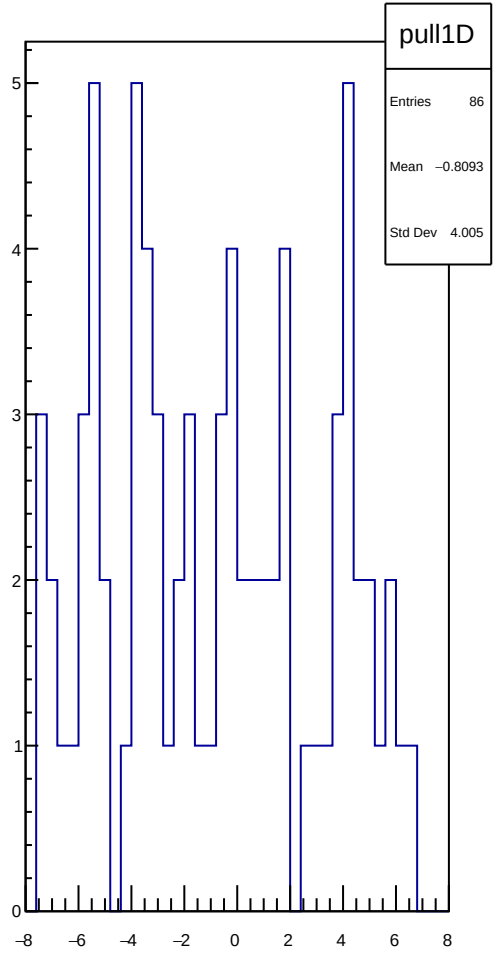

asym_bpm0r05WS_rms vs run
χ² / ndf 6366 / 85
p0 291.6 ± 0.2296
330
320
310
300
290
280
270
260
250

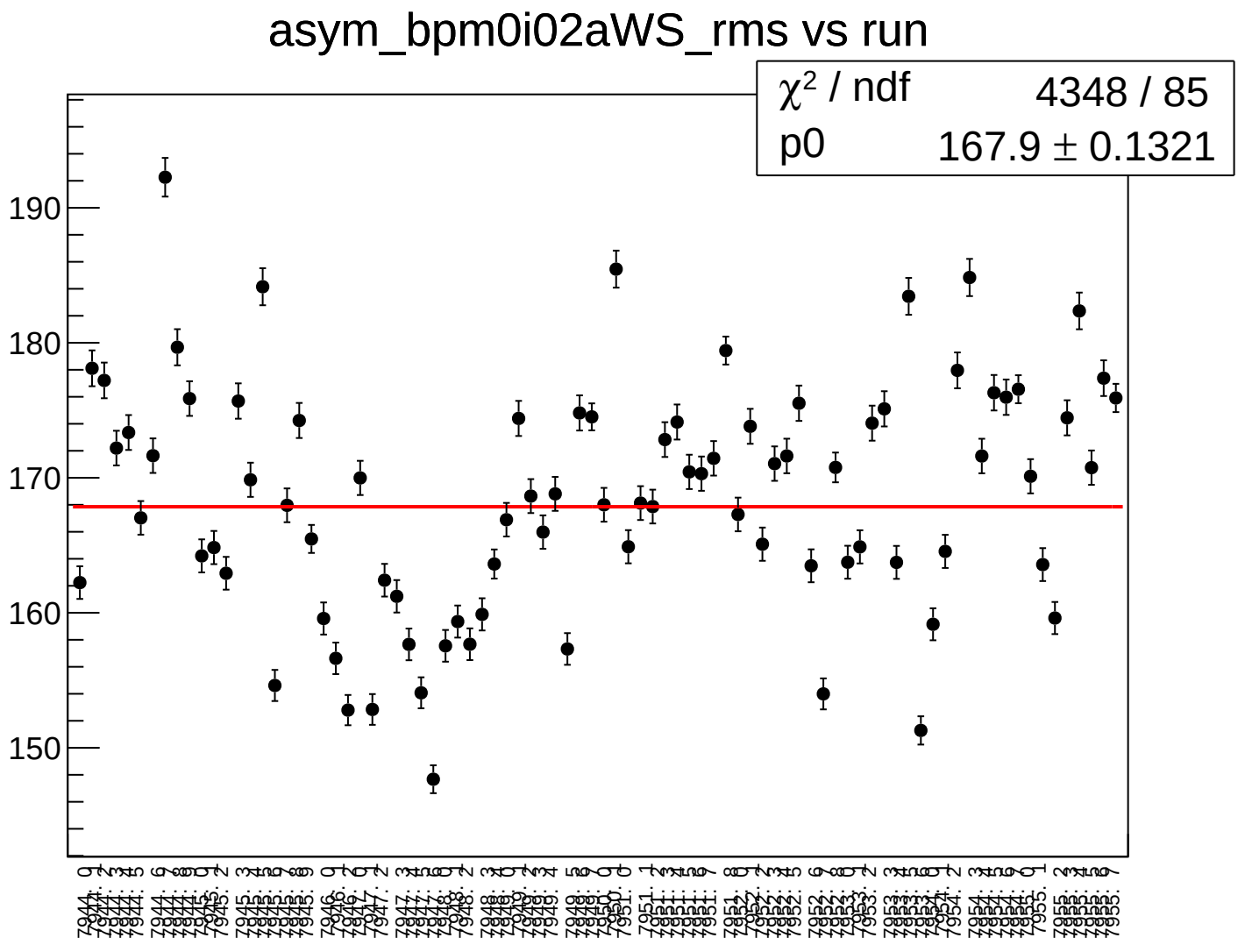

asym_bpm0i02WS_mean vs run
χ² / ndf 2364 / 85
p0 6518 ± 194.7
30000
20000
10000
0
−10000
pull
Entries 86
Mean −369.8
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8

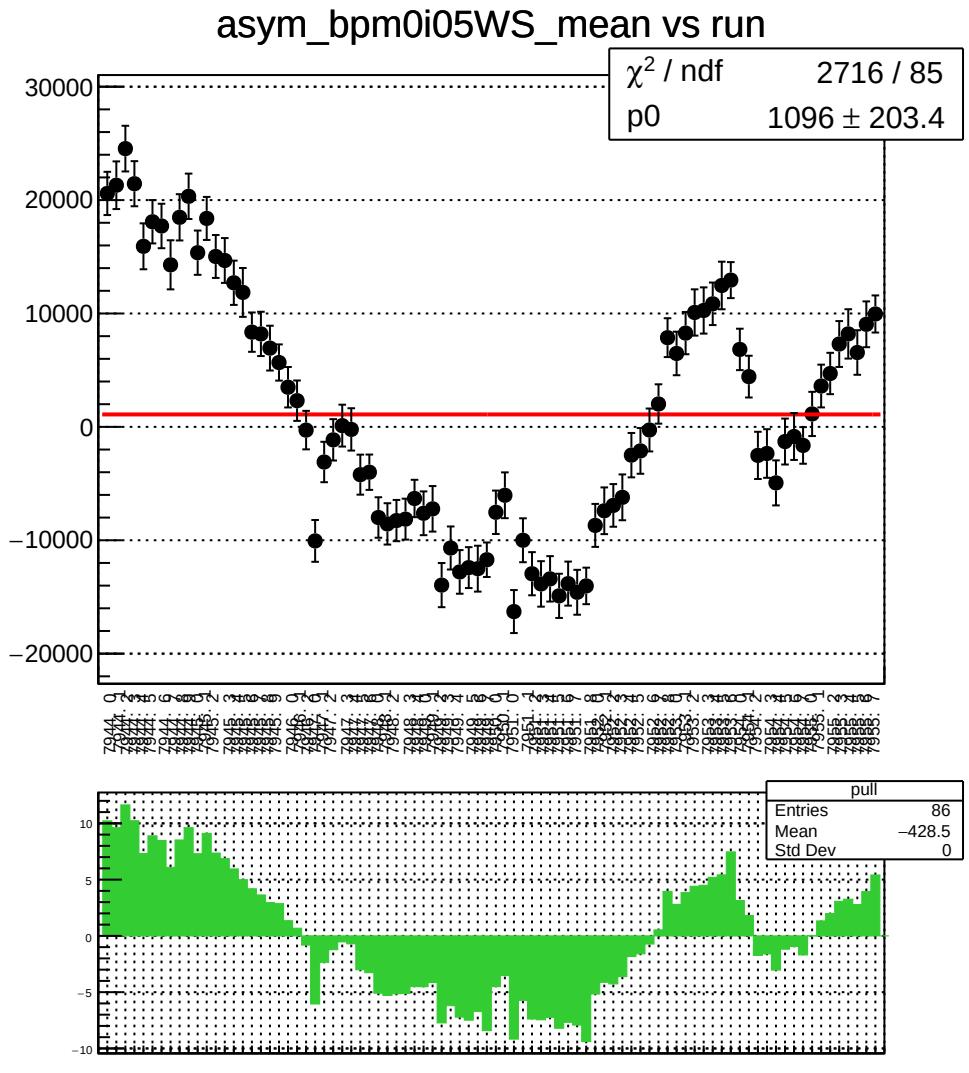

pull1D
Entries 86
Mean −0.7761
Std Dev 4.269
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

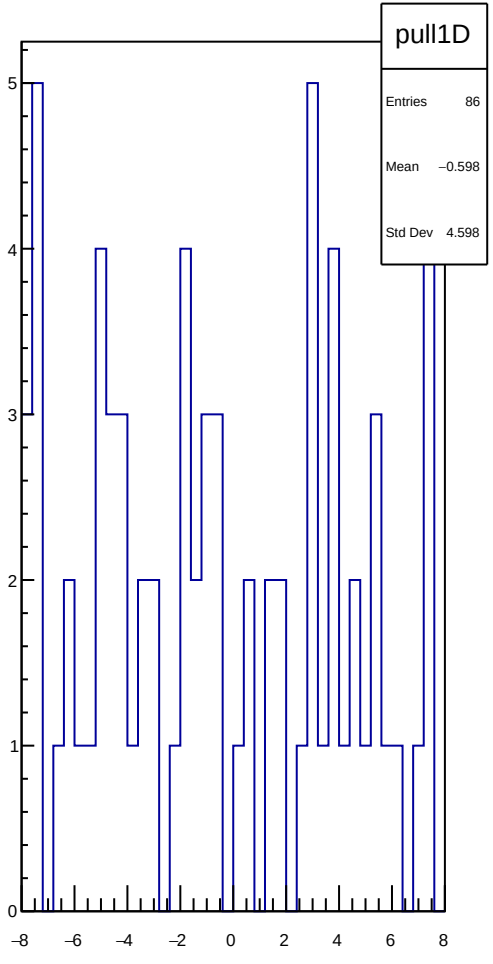

asym_bpm0i02WS_rms vs run
χ² / ndf 4616 / 85
p0 175 ± 0.1377
200
190
180
170
160
150

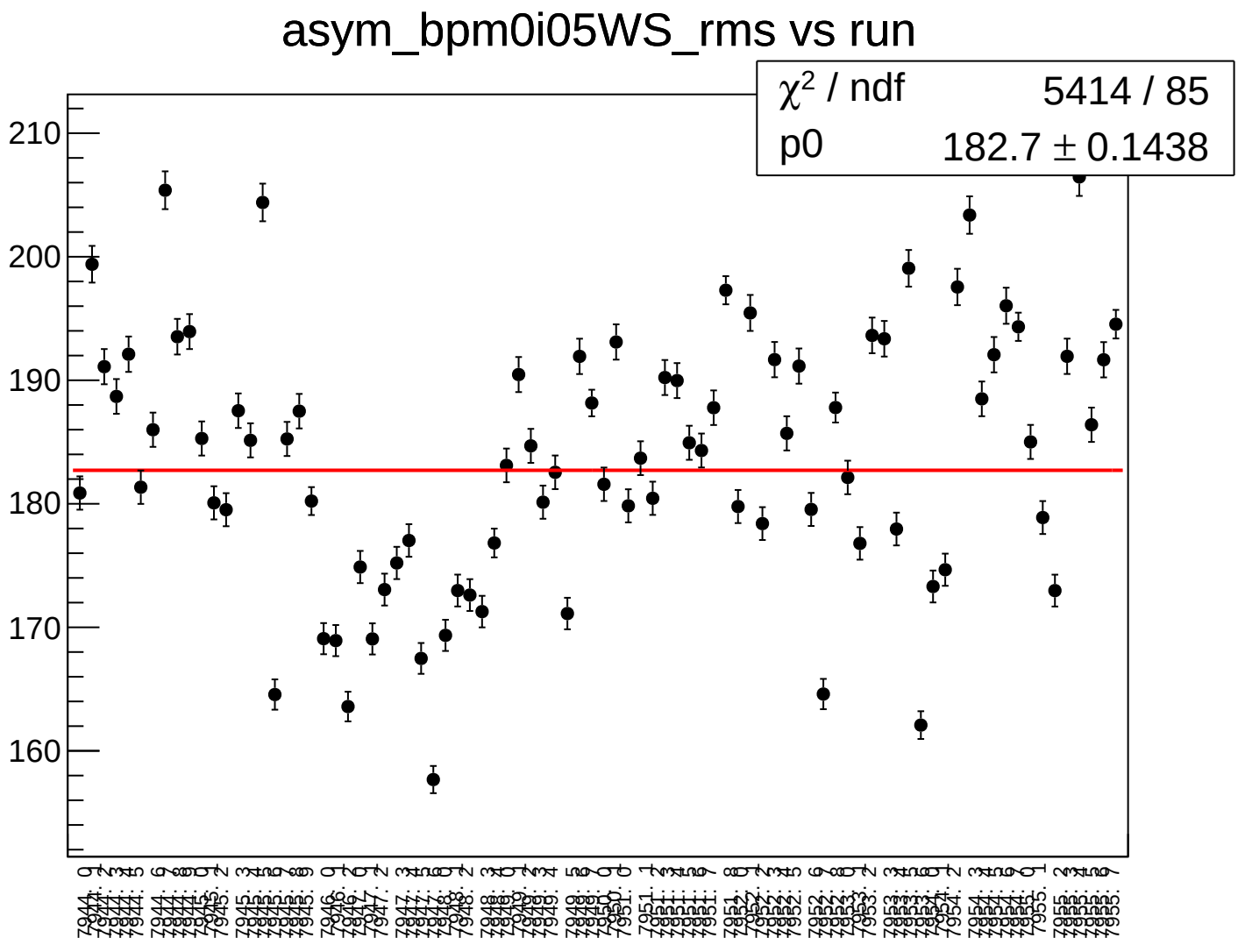

asym_bpm0i02aWS_mean vs run
χ² / ndf 2122 / 85
p0 1.026e+04 ± 186.8
pull
Entries 86
Mean −133.4
Std Dev 0

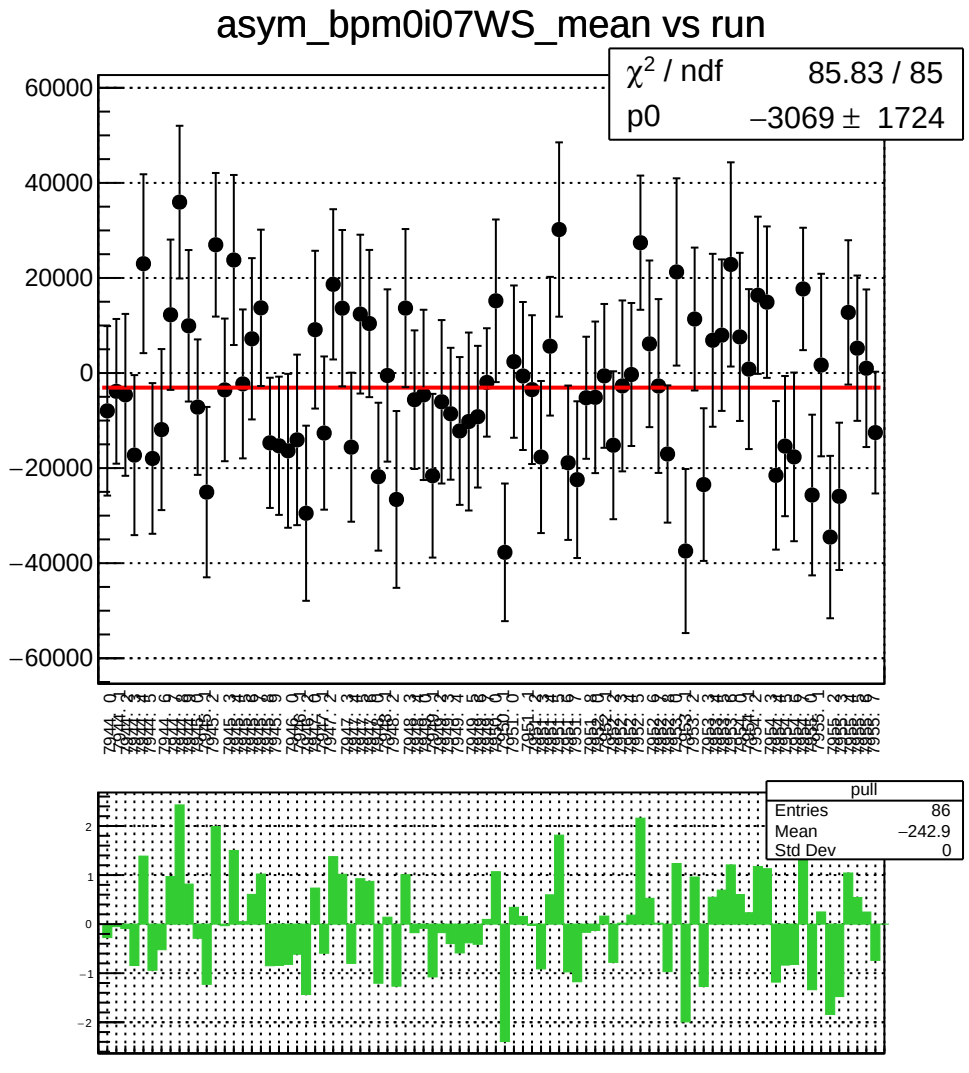

pull1D
Entries 86
Mean −0.8093
Std Dev 4.005

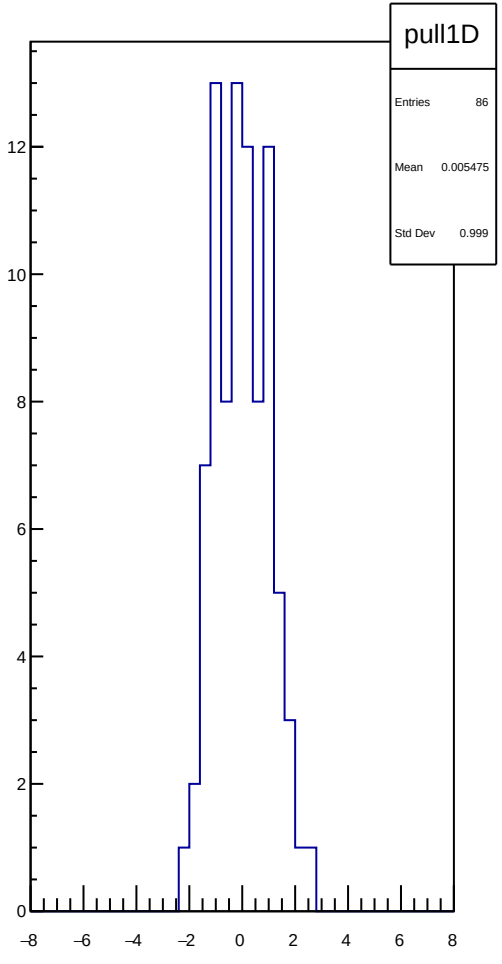

asym_bpm0i02aWS_rms vs run
χ² / ndf 4348 / 85
p0 167.9 ± 0.1321
190
180
170
160
150

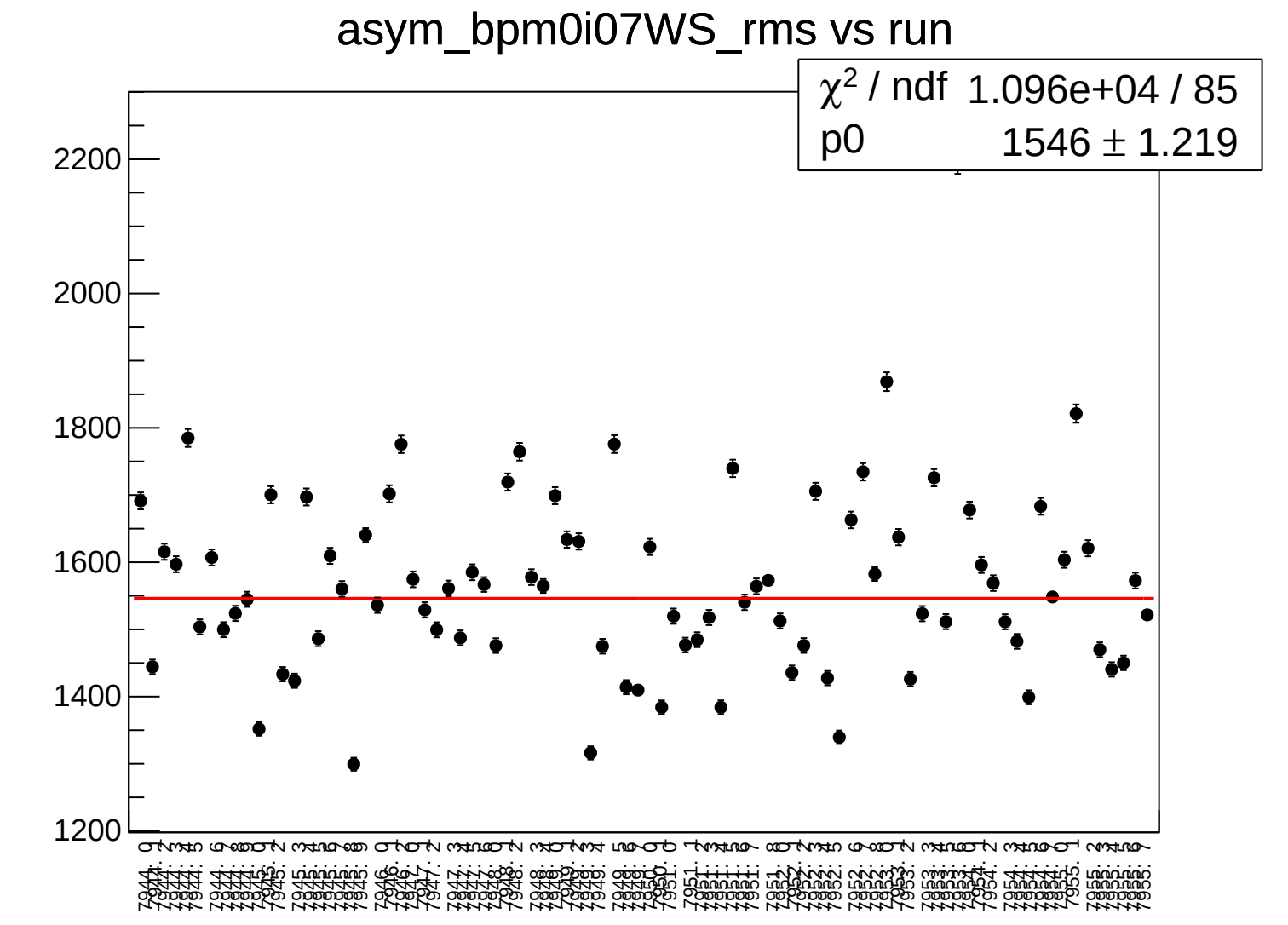

asym_bpm0i05WS_mean vs run
χ² / ndf 2716 / 85
p0 1096 ± 203.4
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −428.5
Std Dev 0
10
5
0
−5
−10

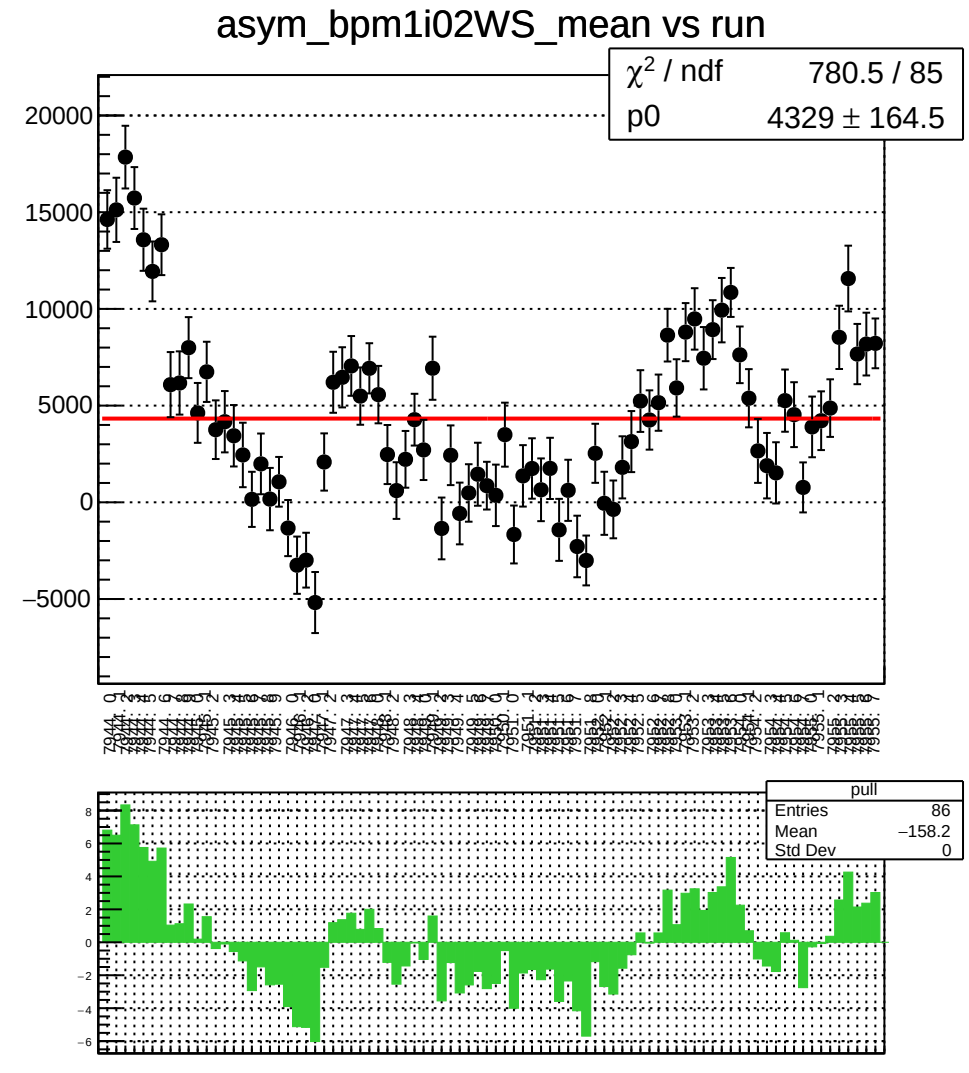

pull1D
Entries 86
Mean −0.598
Std Dev 4.598
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

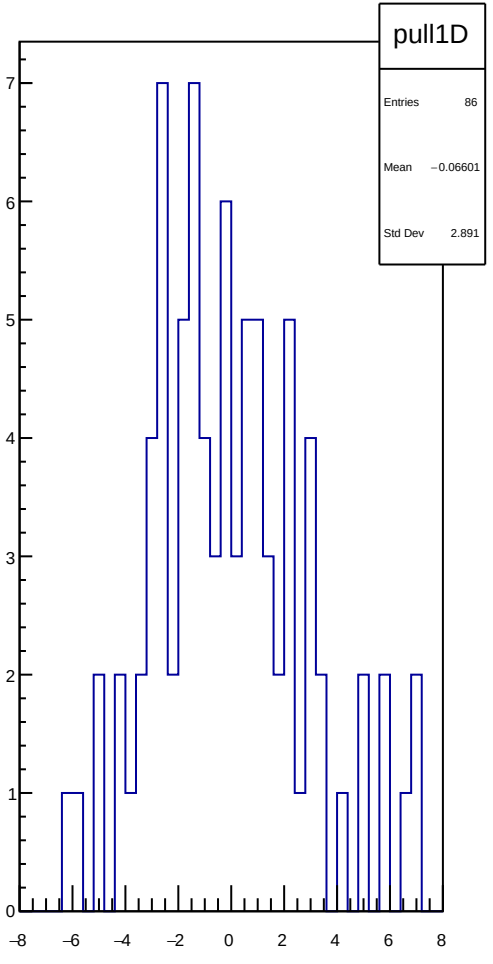

asym_bpm0i05WS_rms vs run
χ² / ndf 5414 / 85
p0 182.7 ± 0.1438
210
200
190
180
170
160

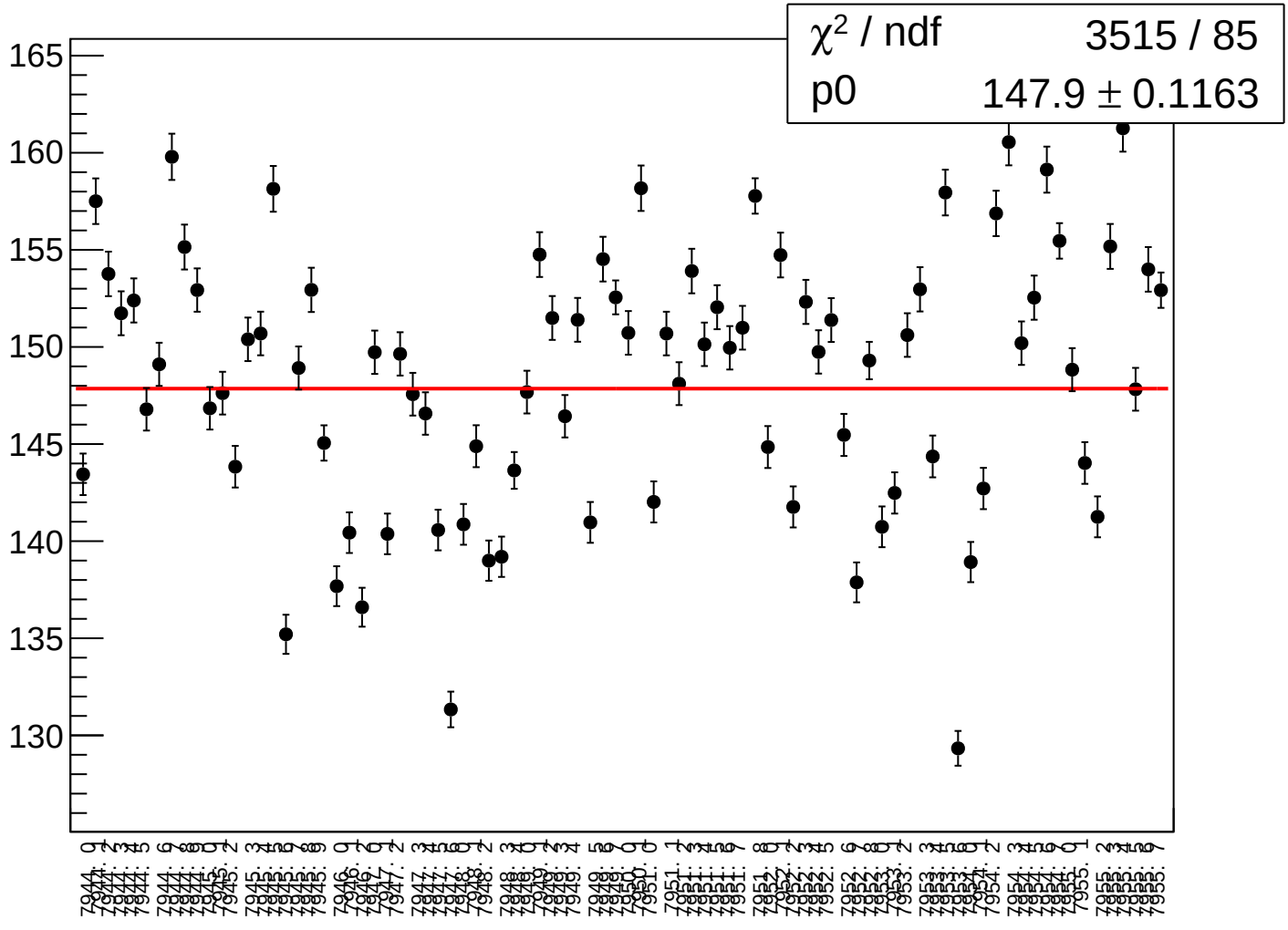

asym_bpm0i07WS_mean vs run
χ² / ndf 85.83 / 85
p0 −3069 ± 1724
pull
Entries 86
Mean −242.9
Std Dev 0

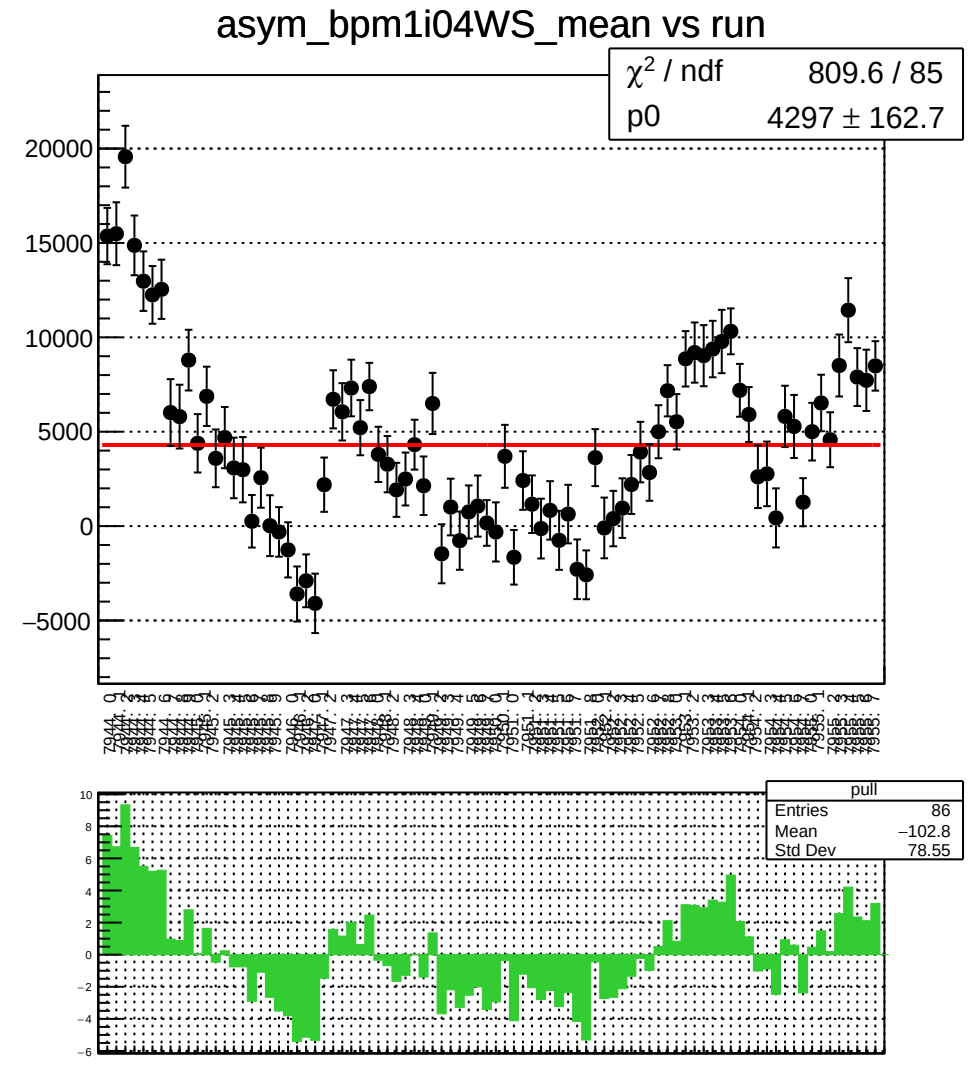

pull1D
Entries 86
Mean 0.005475
Std Dev 0.999

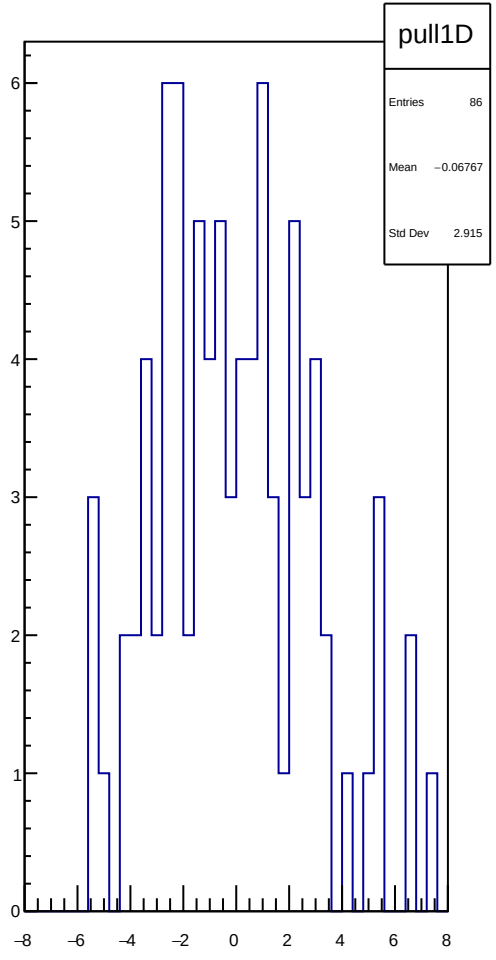

asym_bpm0i07WS_rms vs run
χ² / ndf 1.096e+04 / 85
p0 1546 ± 1.219
2200
2000
1800
1600
1400
1200

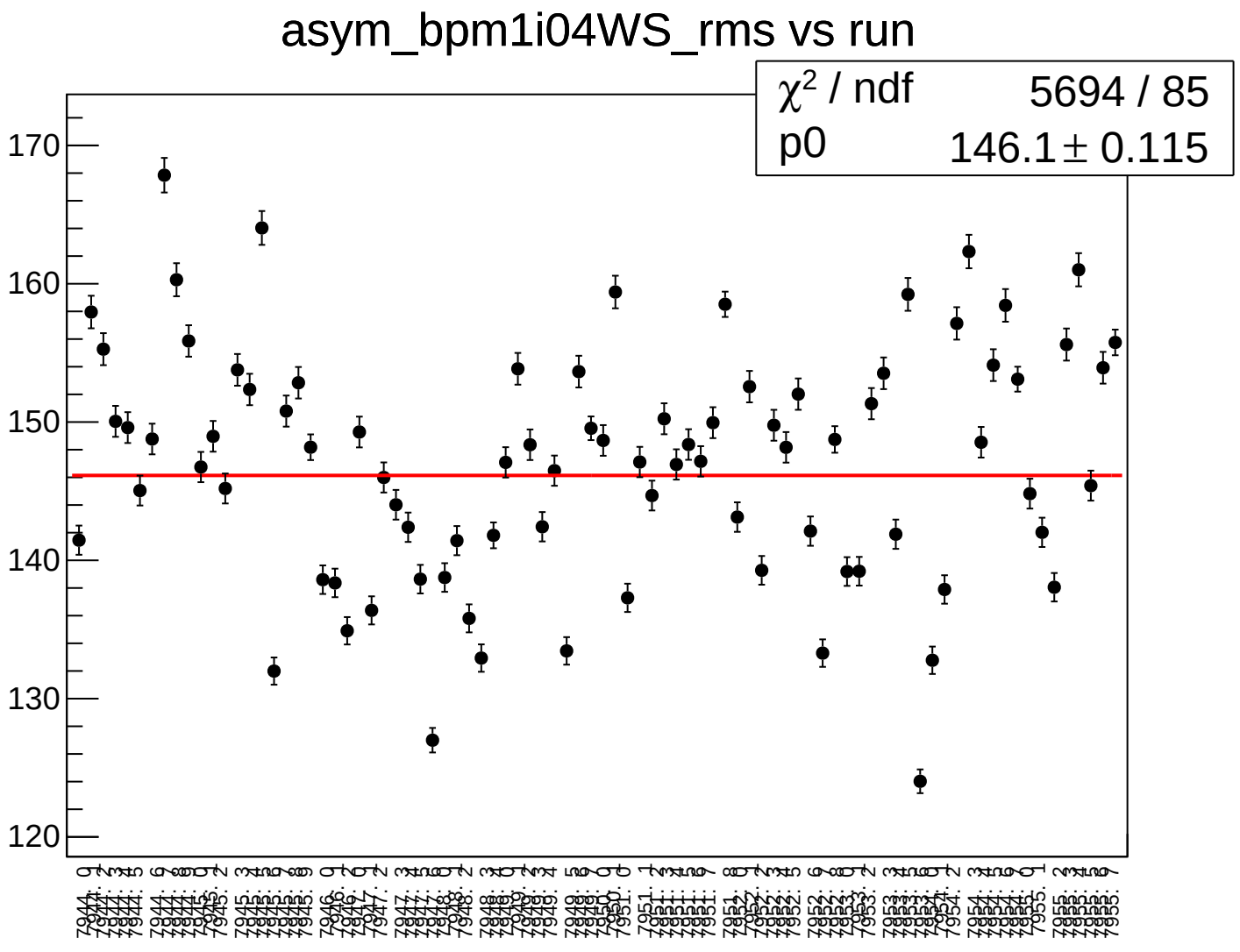

asym_bpm1i02WS_mean vs run
χ² / ndf 780.5 / 85
p0 4329 ± 164.5
20000
15000
10000
5000
0
−5000
pull
Entries 86
Mean −158.2
Std Dev 0
8
6
4
2
0
−2
−4
−6

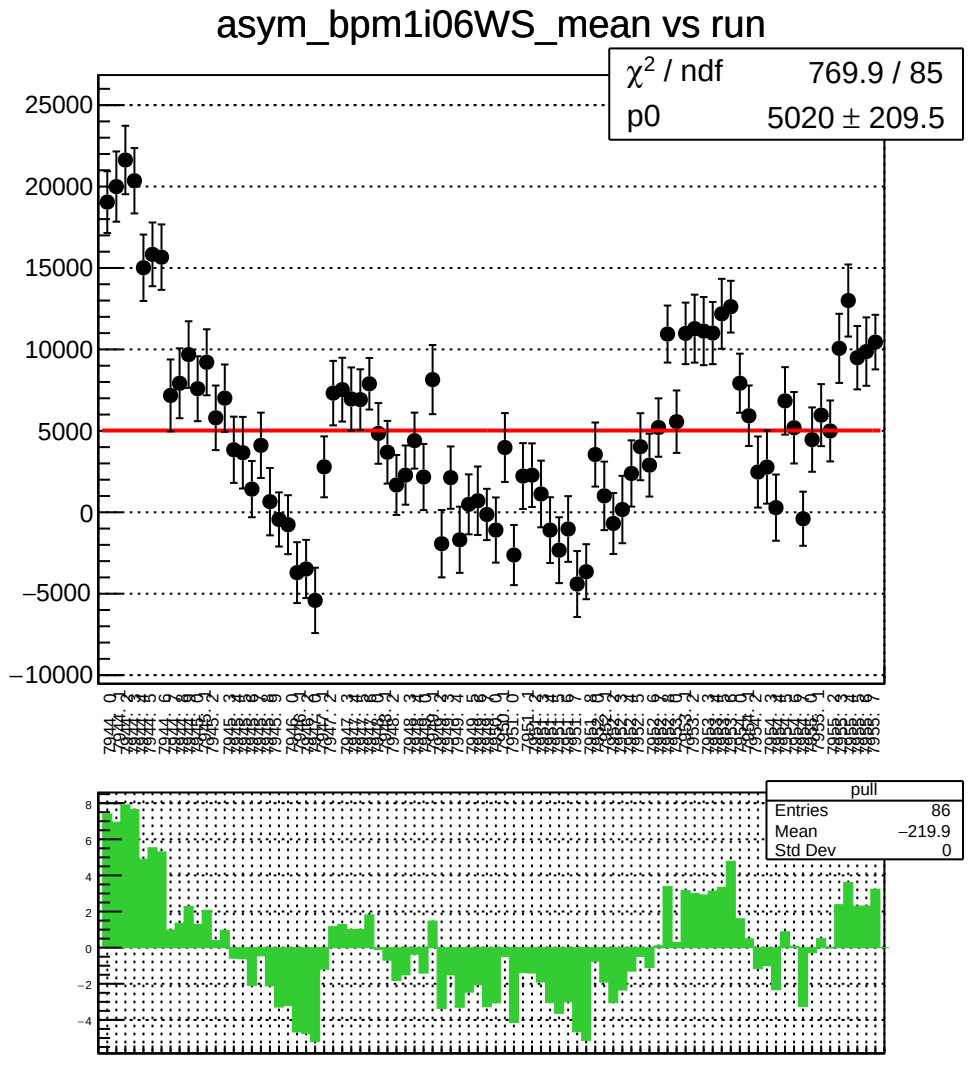

pull1D
Entries 86
Mean −0.06601
Std Dev 2.891
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

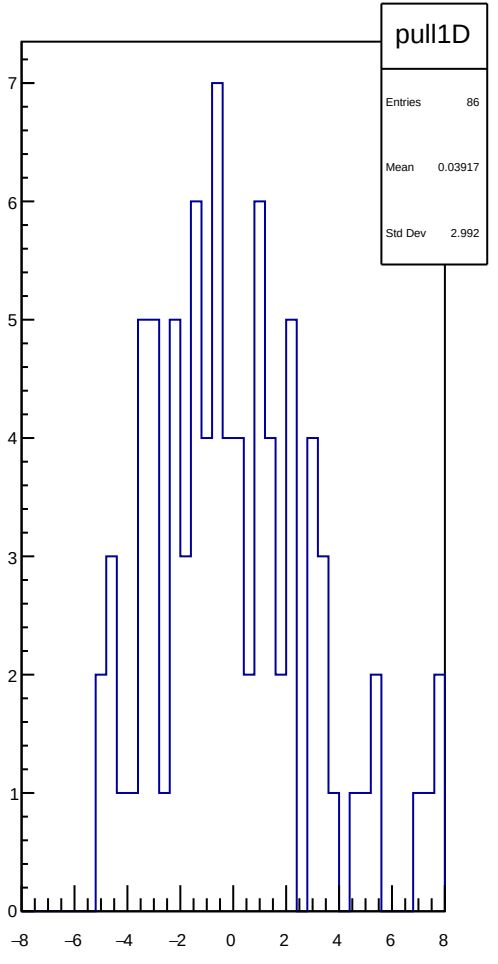

asym_bpm1i02WS_rms vs run
χ^2 / ndf 3515 / 85
p0 147.9 ± 0.1163
165
160
155
150
145
140
135
130

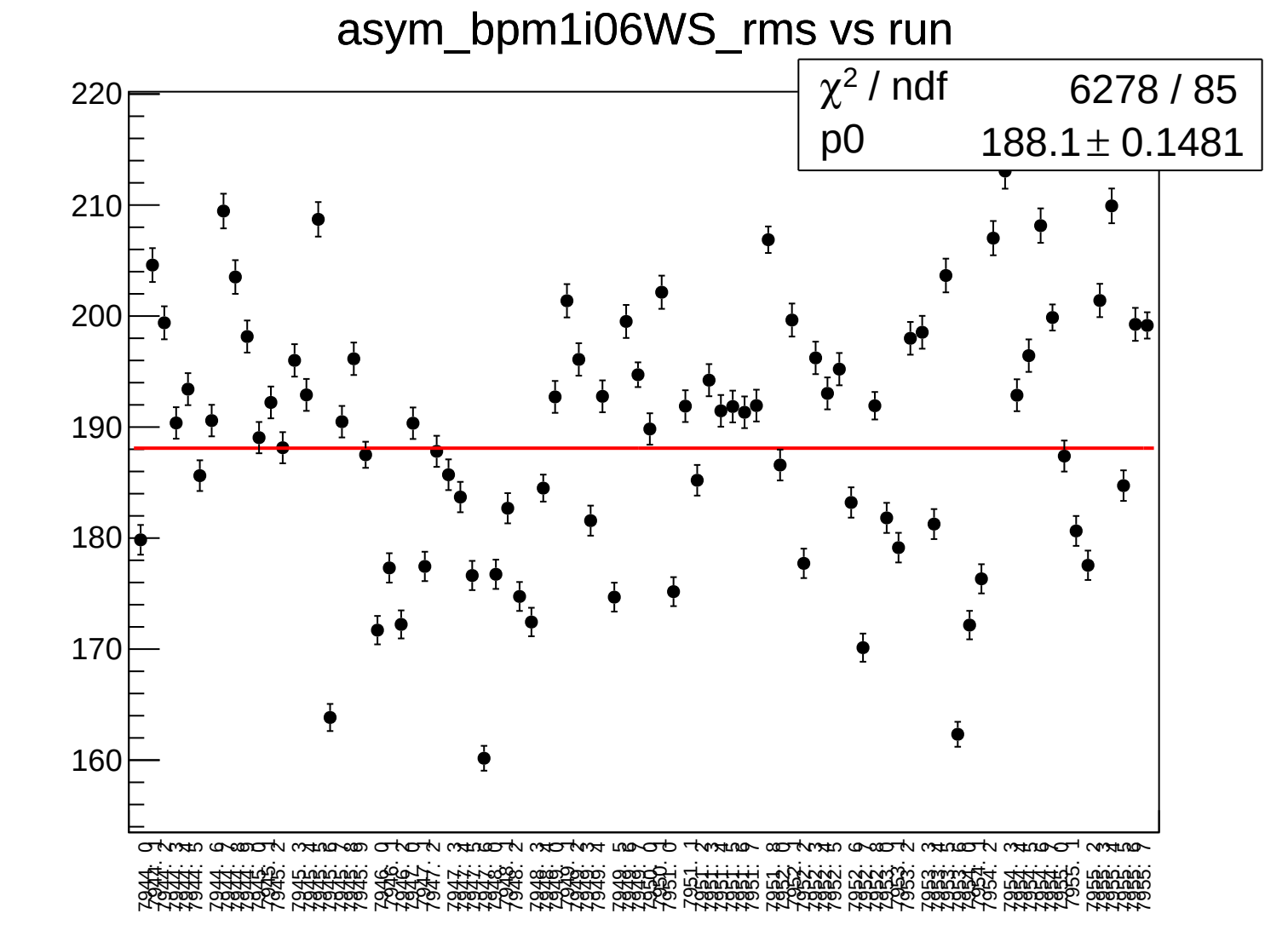

asym_bpm1i04WS_mean vs run
χ² / ndf 809.6 / 85
p0 4297 ± 162.7
20000
15000
10000
5000
0
−5000
pull
Entries 86
Mean −102.8
Std Dev 78.55
10
8
6
4
2
0
−2
−4
−6

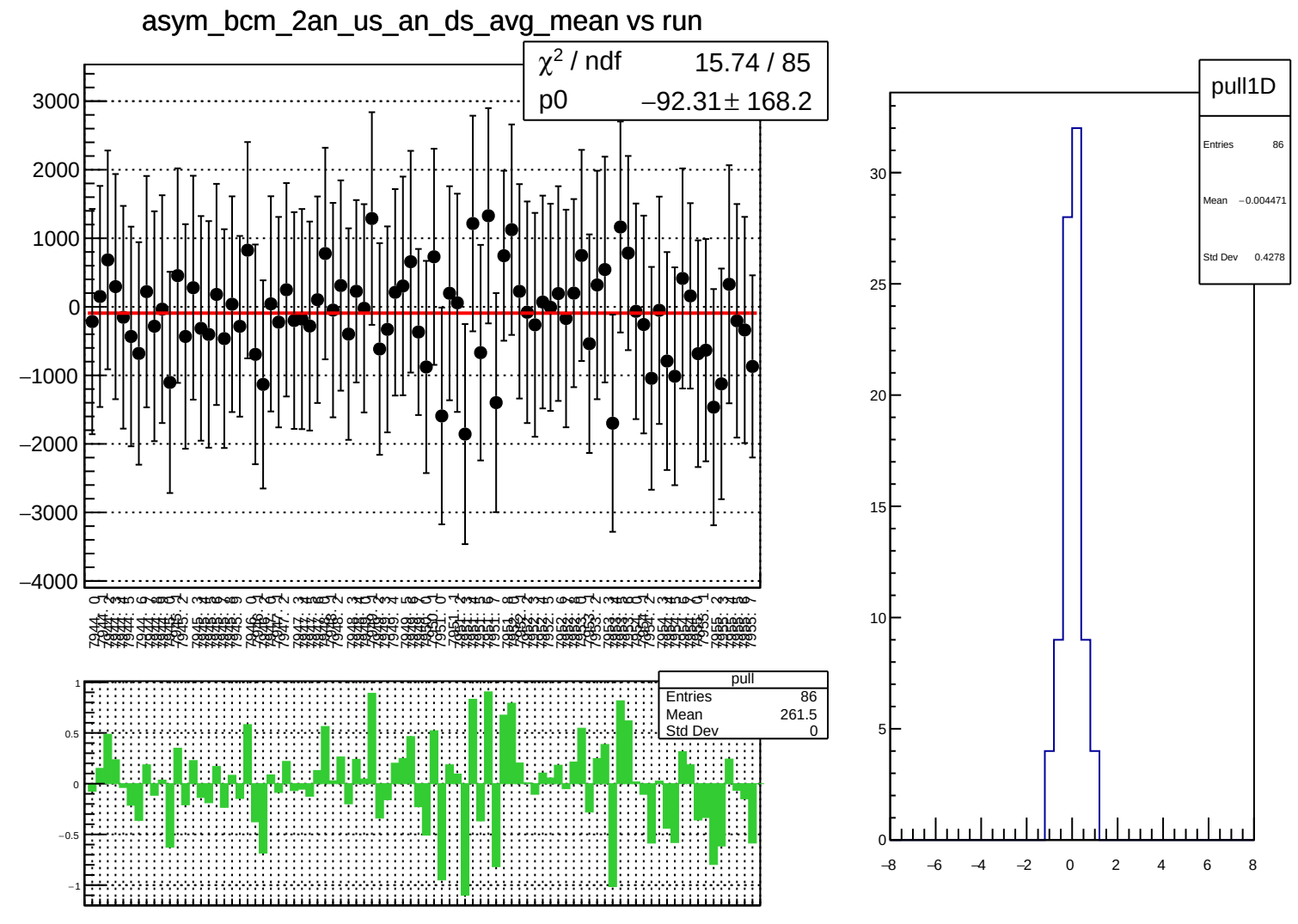

pull1D
Entries 86
Mean −0.06767
Std Dev 2.915
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

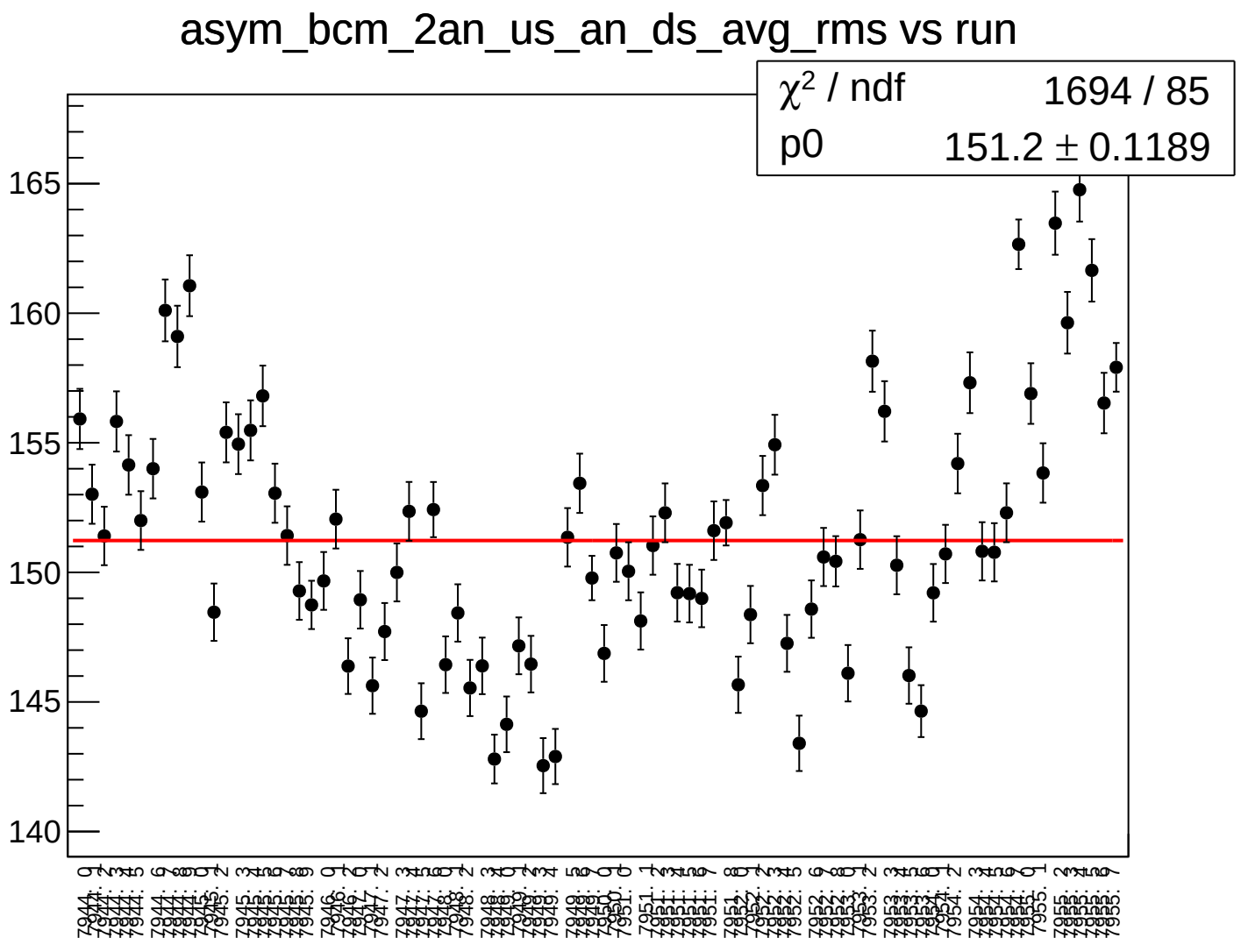

asym_bpm1i04WS_rms vs run
χ^2 / ndf 5694 / 85
p0 146.1 ± 0.115
170
160
150
140
130
120

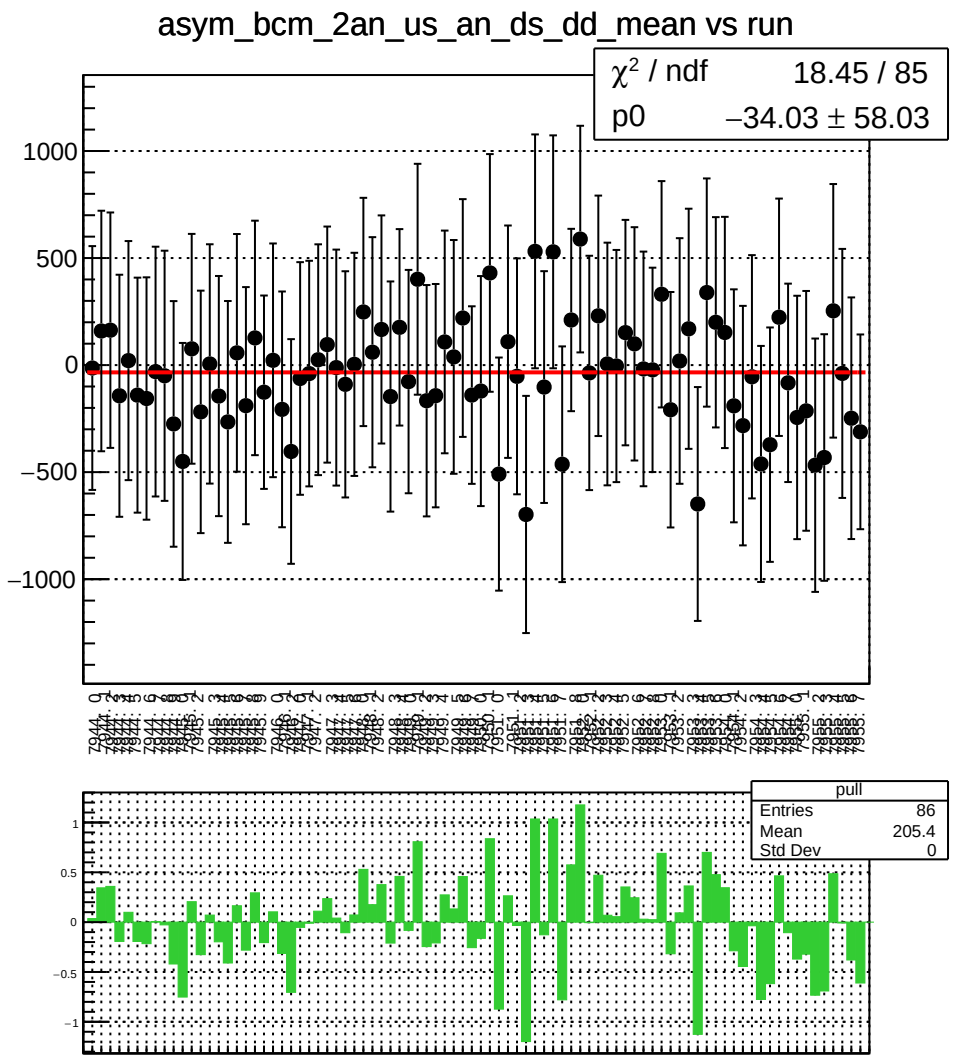

asym_bpm1i06WS_mean vs run
χ² / ndf 769.9 / 85
p0 5020 ± 209.5
pull
Entries 86
Mean −219.9
Std Dev 0

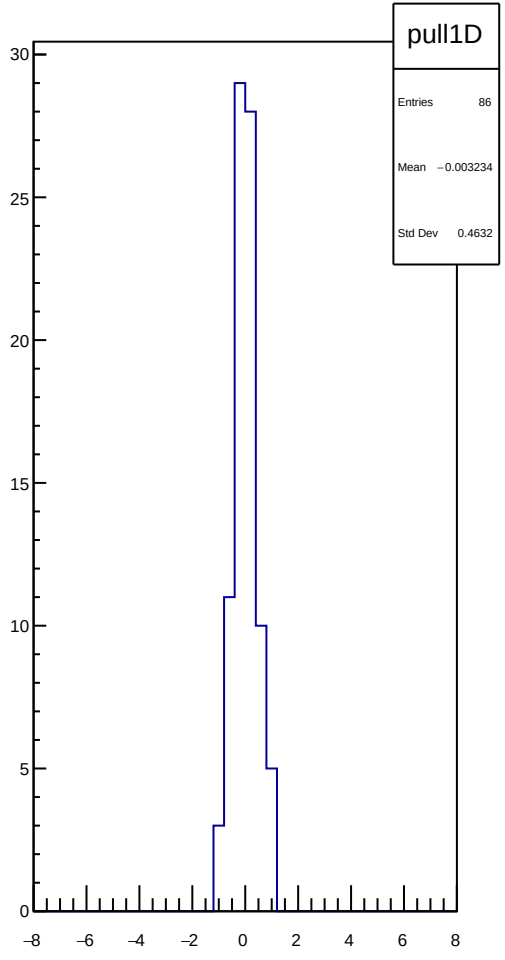

pull1D
Entries 86
Mean 0.03917
Std Dev 2.992

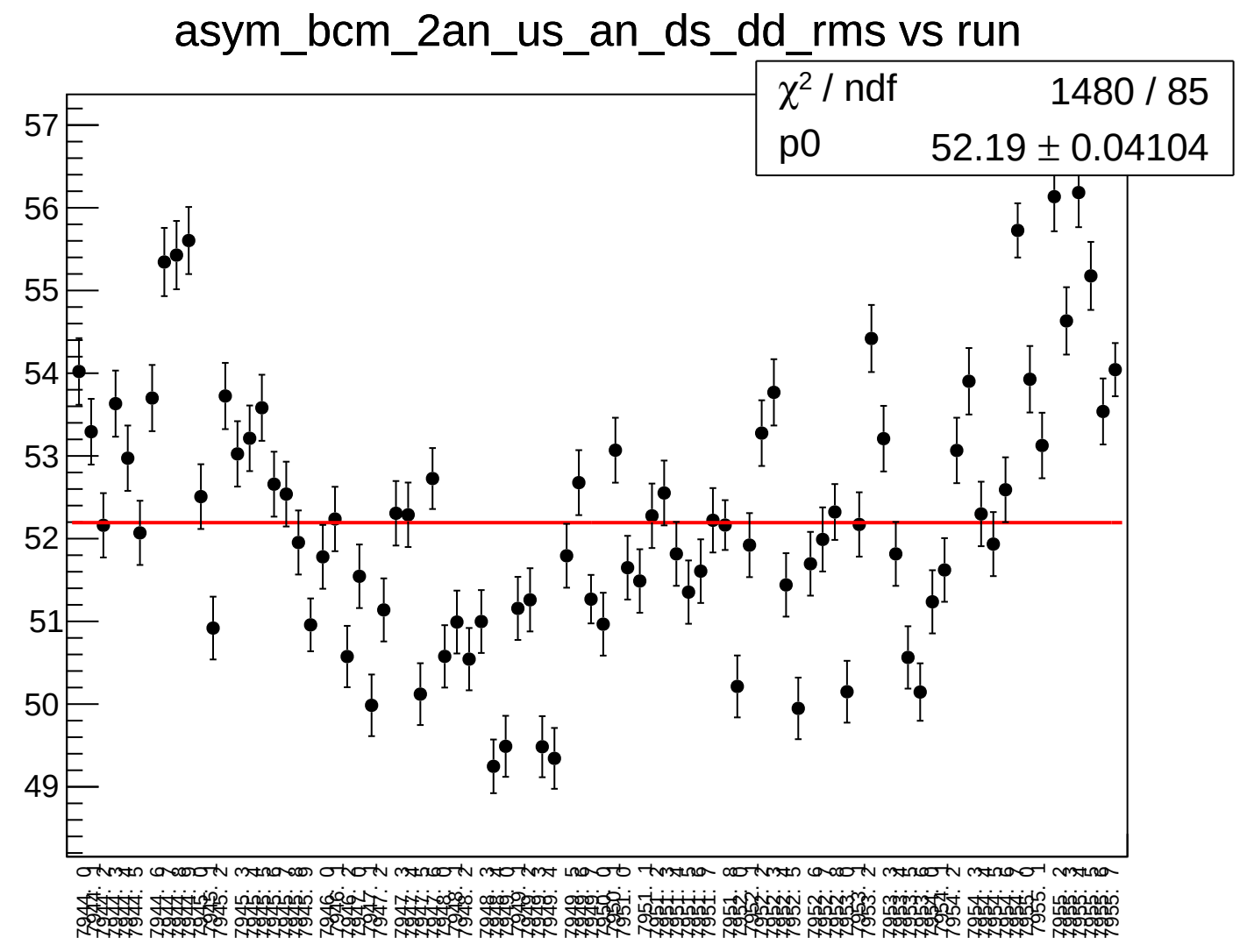

asym_bpm1i06WS_rms vs run
χ^2 / ndf 6278 / 85
p0 188.1 ± 0.1481
220
210
200
190
180
170
160

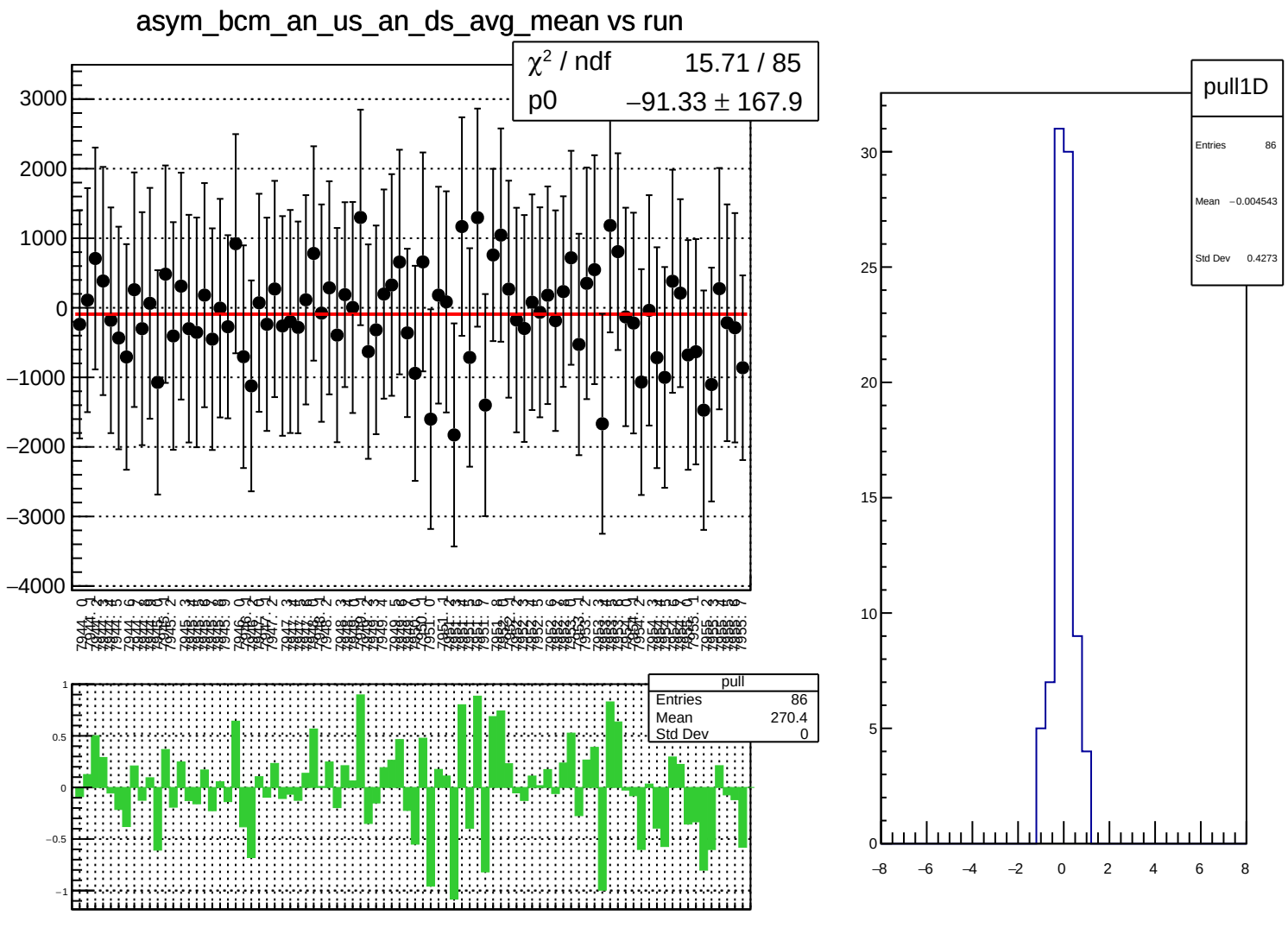

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 15.74 / 85
p0 −92.31 ± 168.2
pull
Entries 86
Mean 261.5
Std Dev 0
pull1D
Entries 86
Mean −0.004471
Std Dev 0.4278

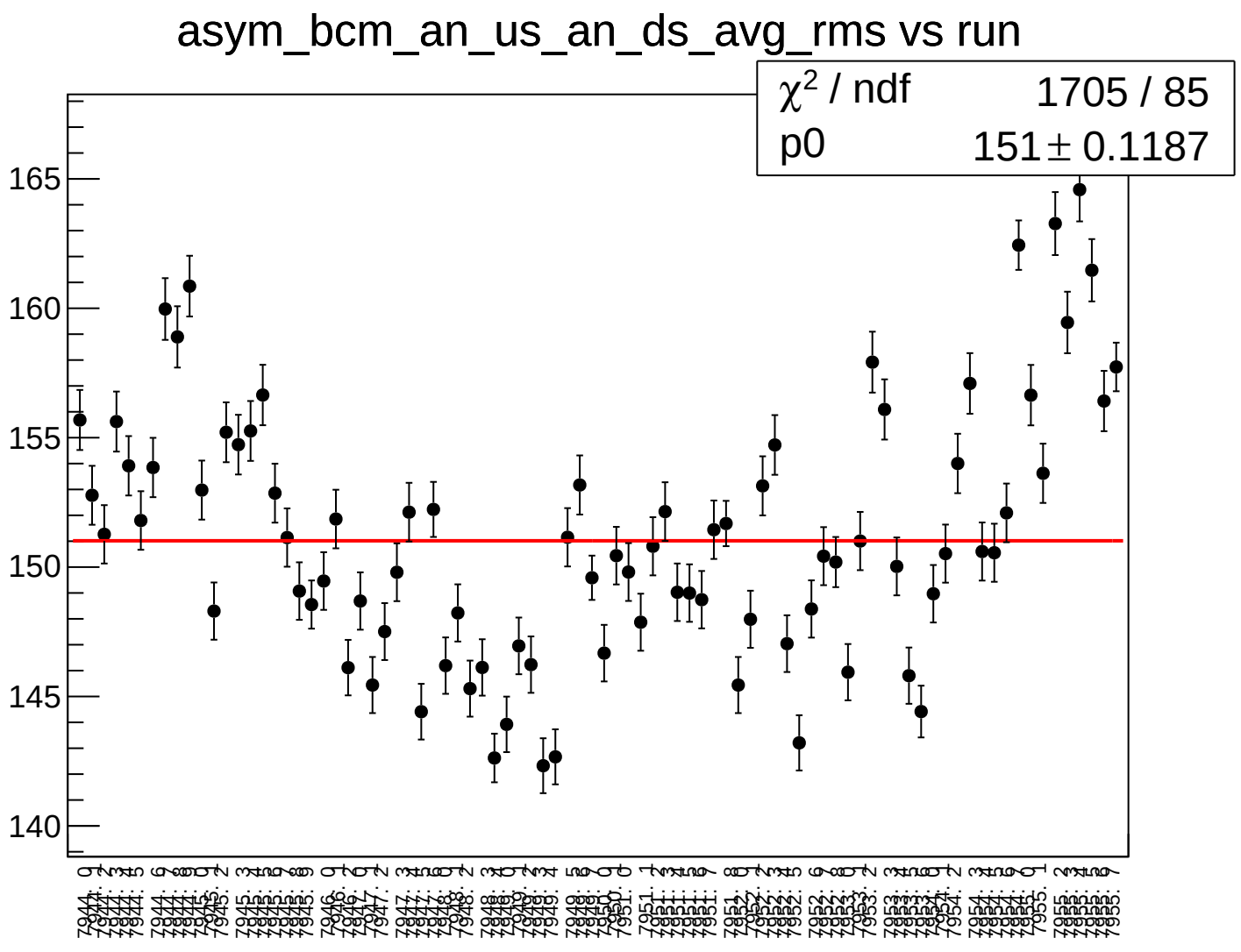

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1694 / 85
p0 151.2 ± 0.1189
165
160
155
150
145
140

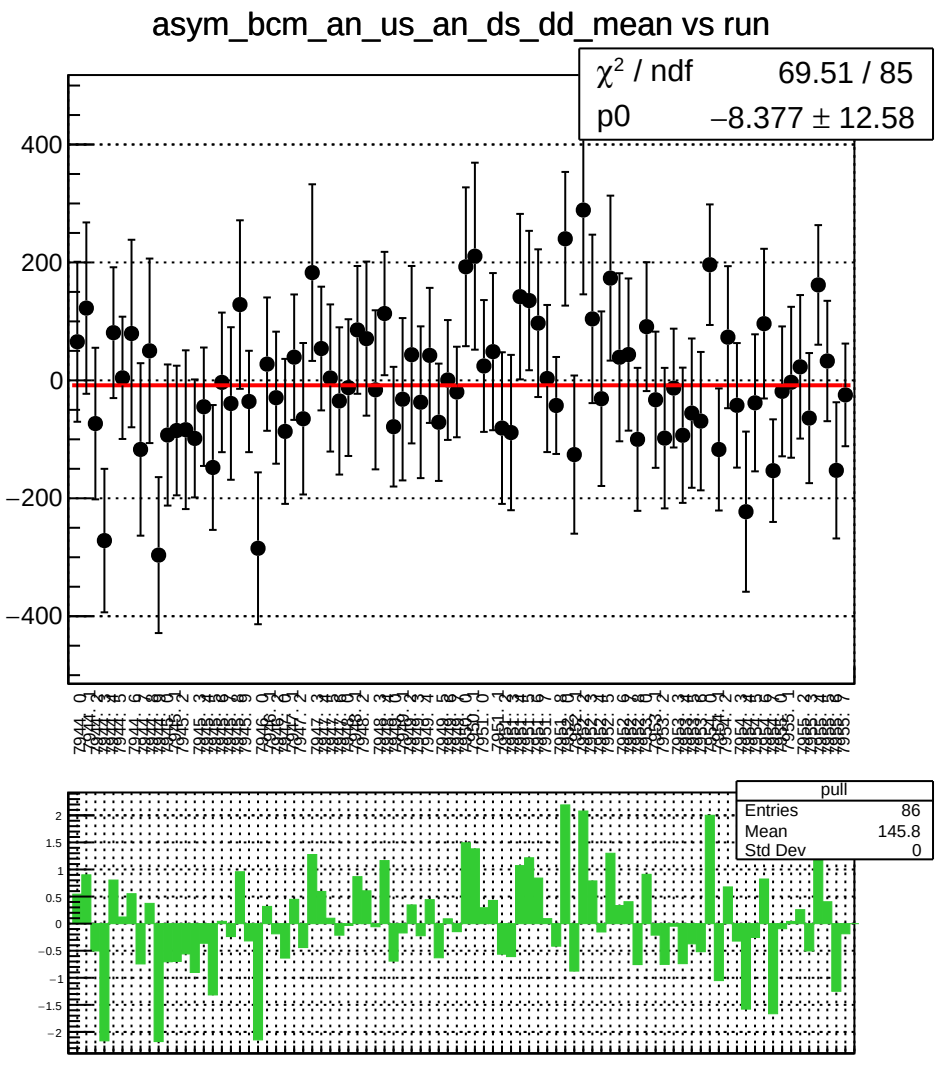

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 18.45 / 85
p0 −34.03 ± 58.03
1000
500
0
−500
−1000
pull
Entries 86
Mean 205.4
Std Dev 0
1
0.5
0
−0.5
−1

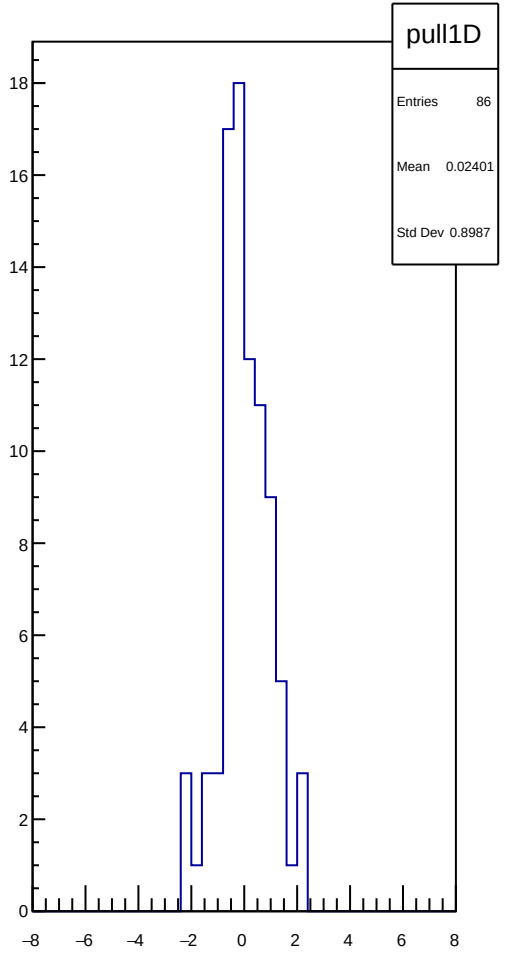

pull1D
Entries 86
Mean −0.003234
Std Dev 0.4632
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1480 / 85
p0 52.19 ± 0.04104
57
56
55
54
53
52
51
50
49

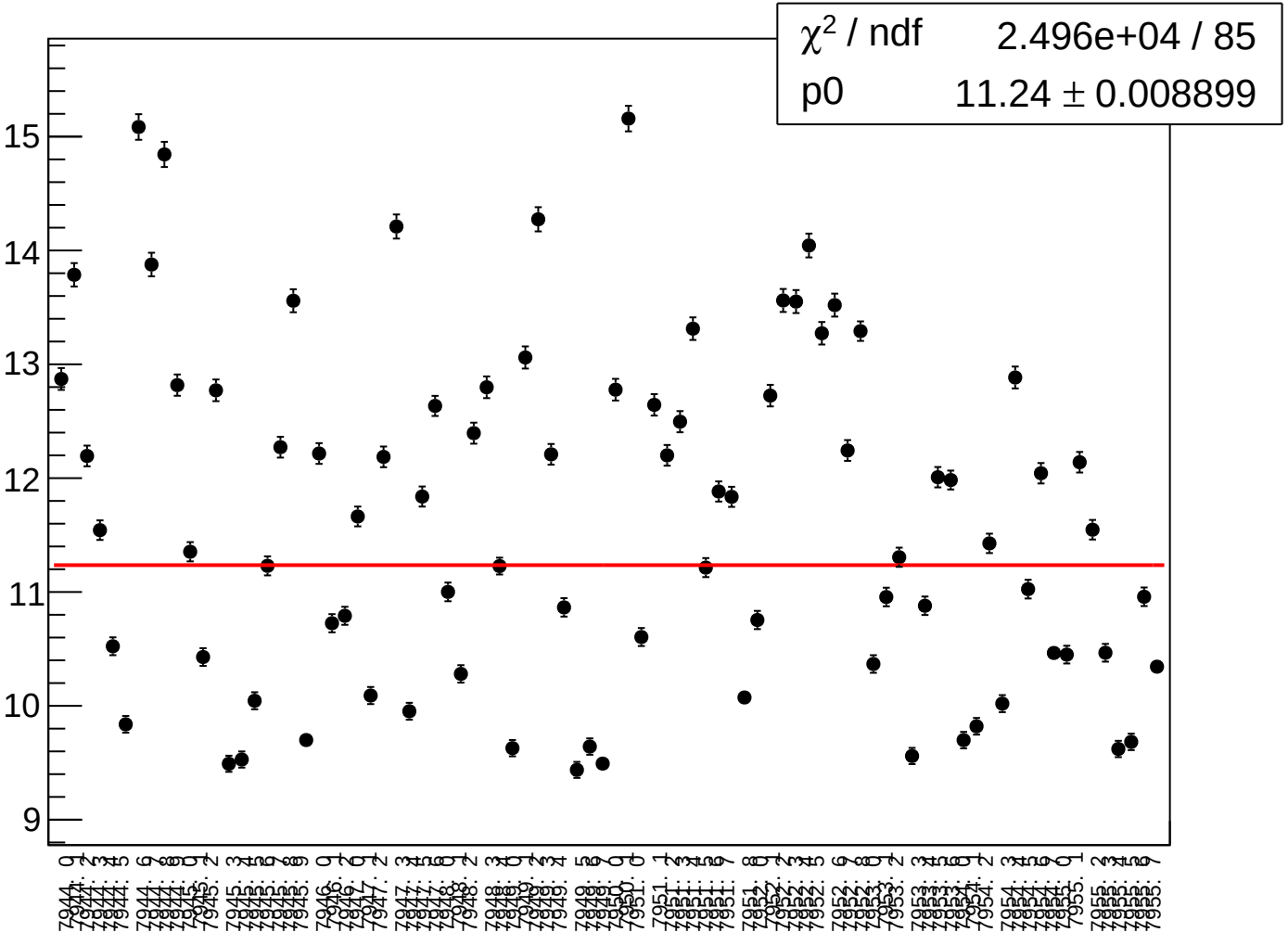

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 15.71 / 85
p0 −91.33 ± 167.9
pull
Entries 86
Mean 270.4
Std Dev 0
pull1D
Entries 86
Mean −0.004543
Std Dev 0.4273

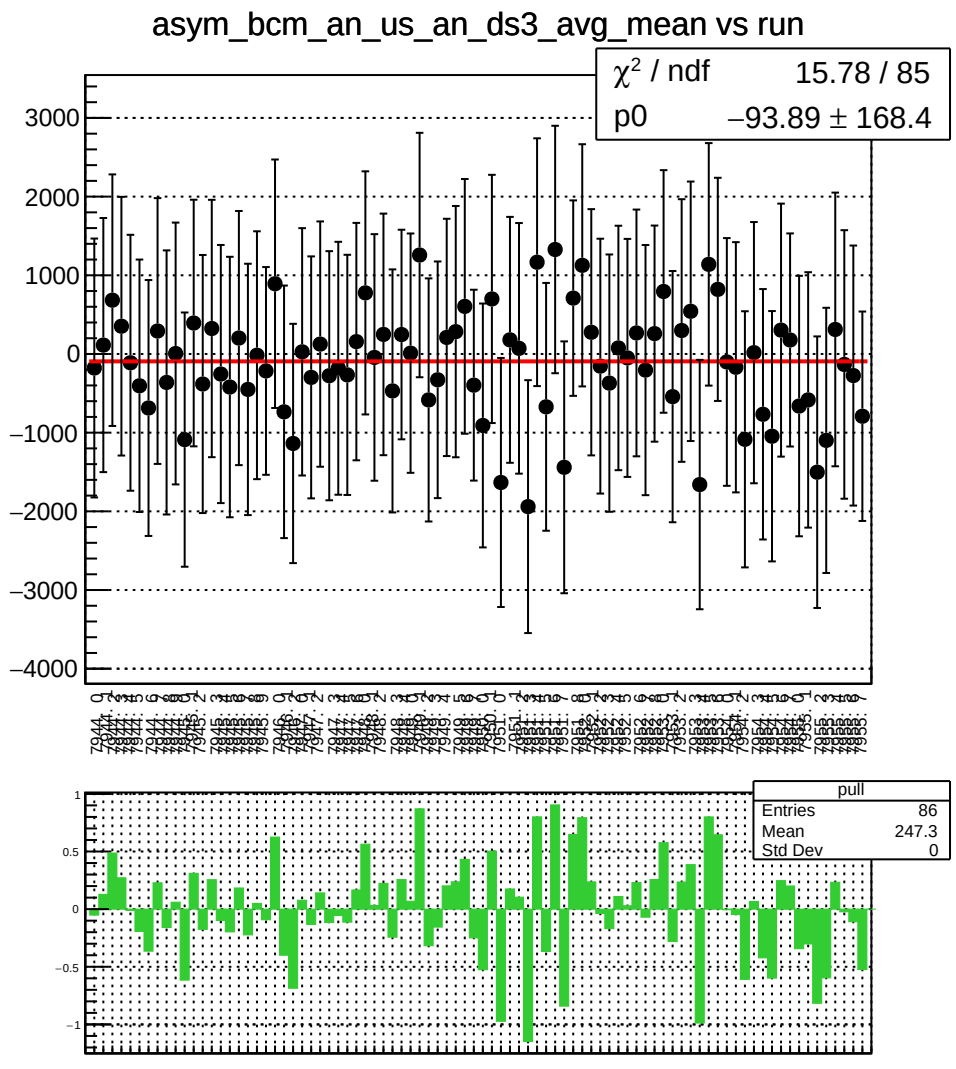

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1705 / 85
p0 151 ± 0.1187
165
160
155
150
145
140

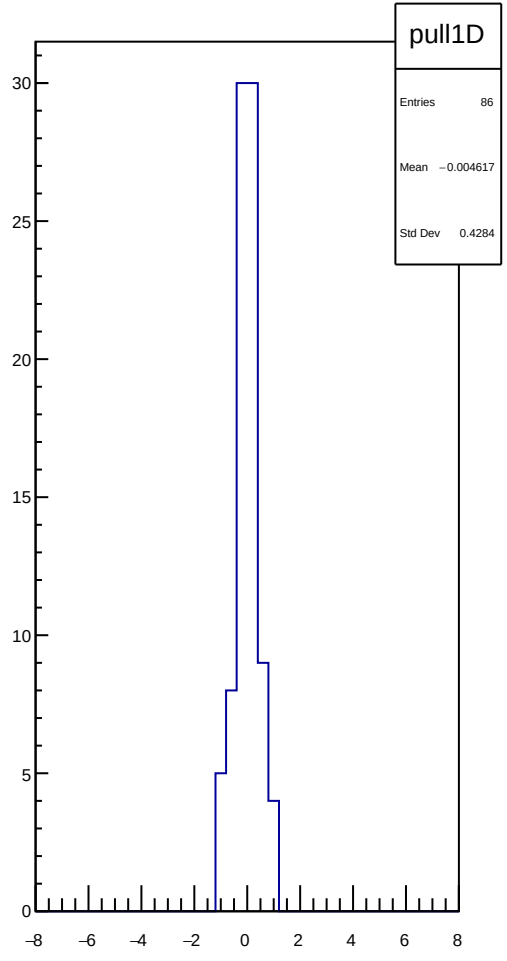

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 69.51 / 85
p0 −8.377 ± 12.58
400
200
0
−200
−400
pull
Entries 86
Mean 145.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

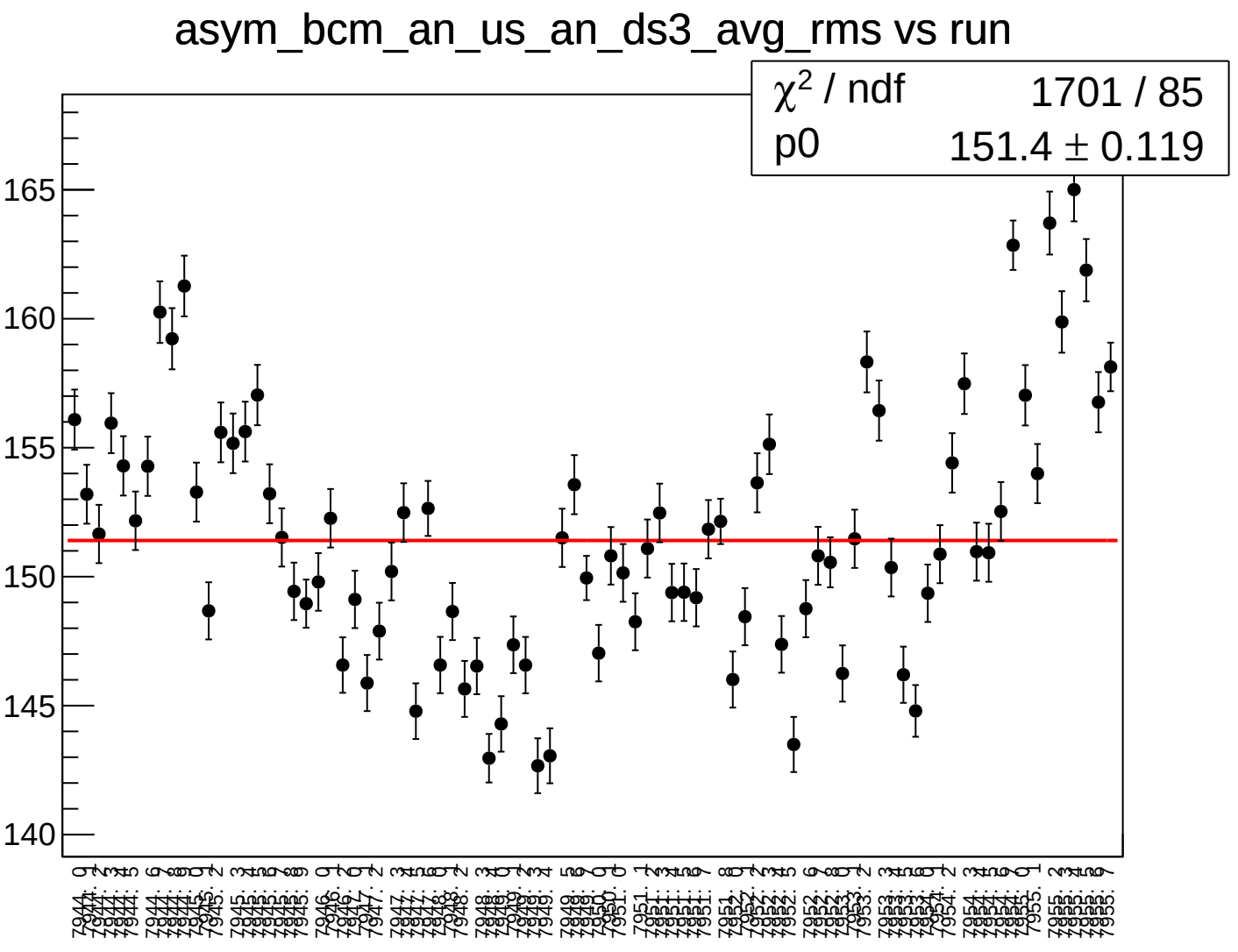

pull1D
Entries 86
Mean 0.02401
Std Dev 0.8987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

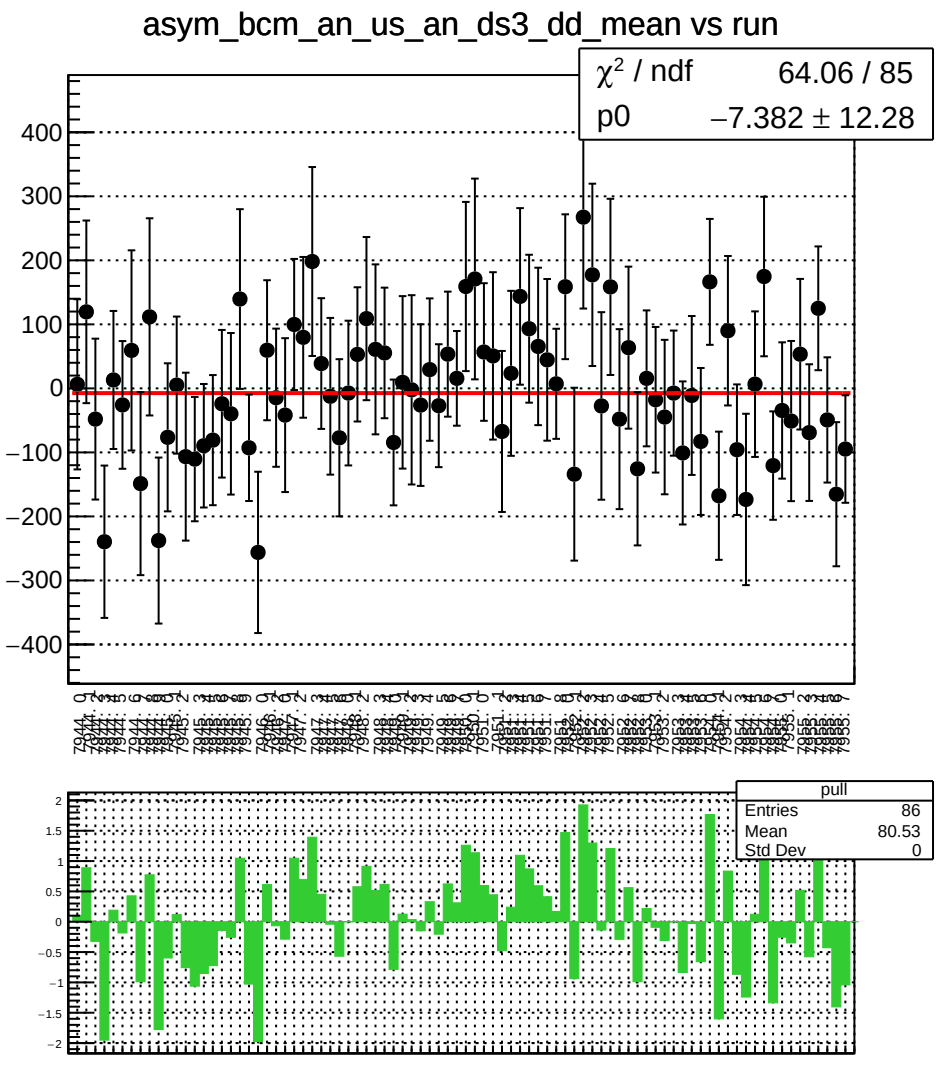
asym_bcm_an_us_an_ds_dd_rms vs run

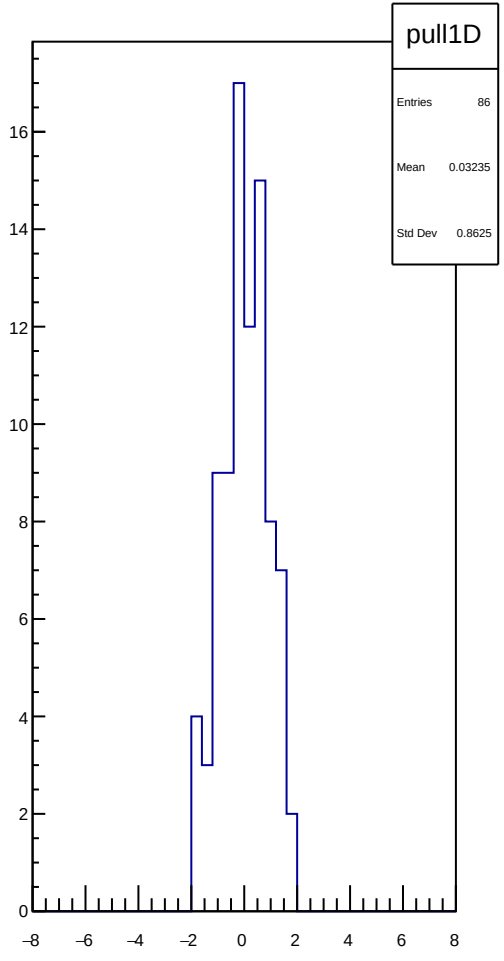


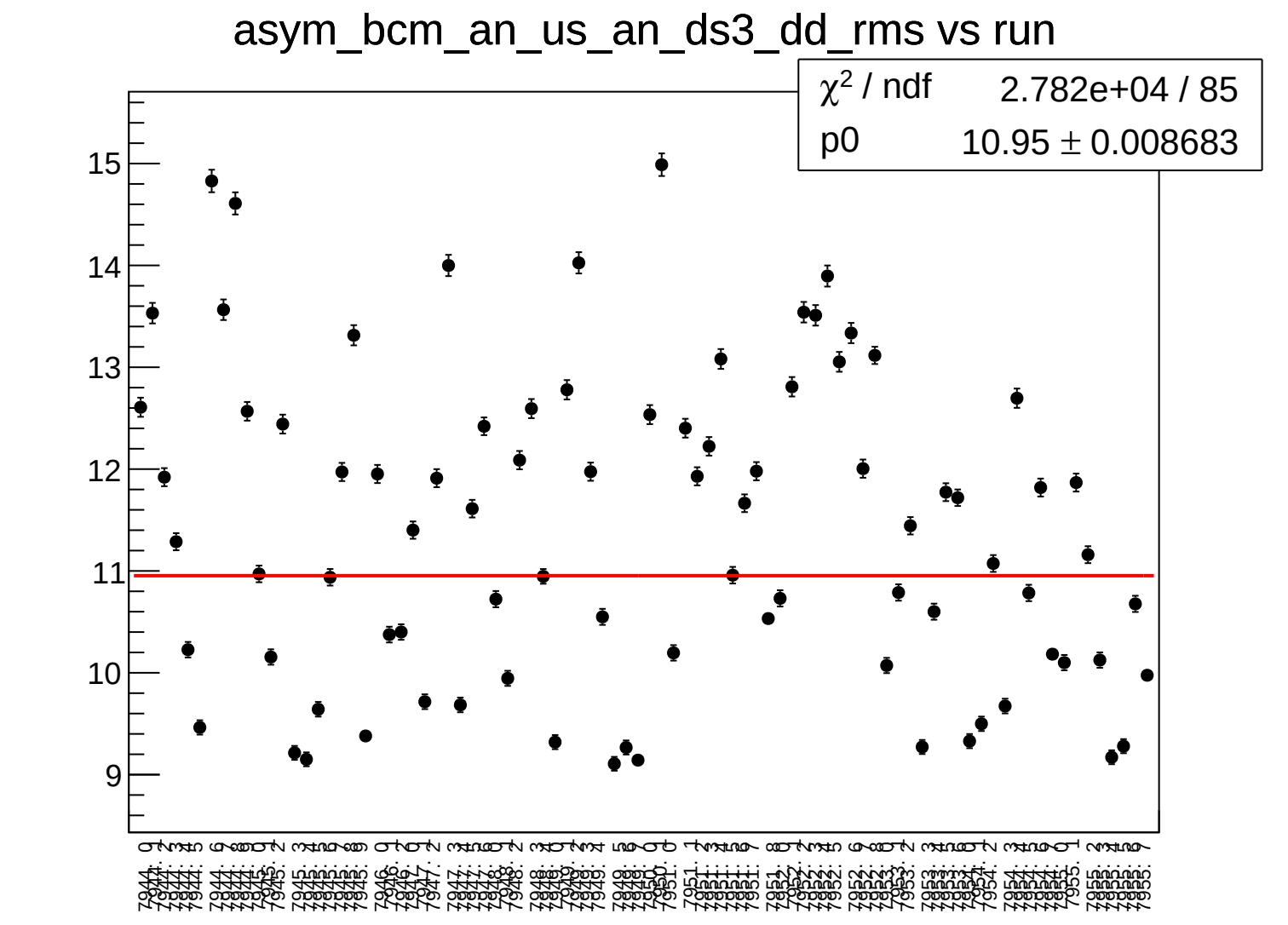

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 15.78 / 85
p0 −93.89 ± 168.4
pull
Entries 86
Mean 247.3
Std Dev 0

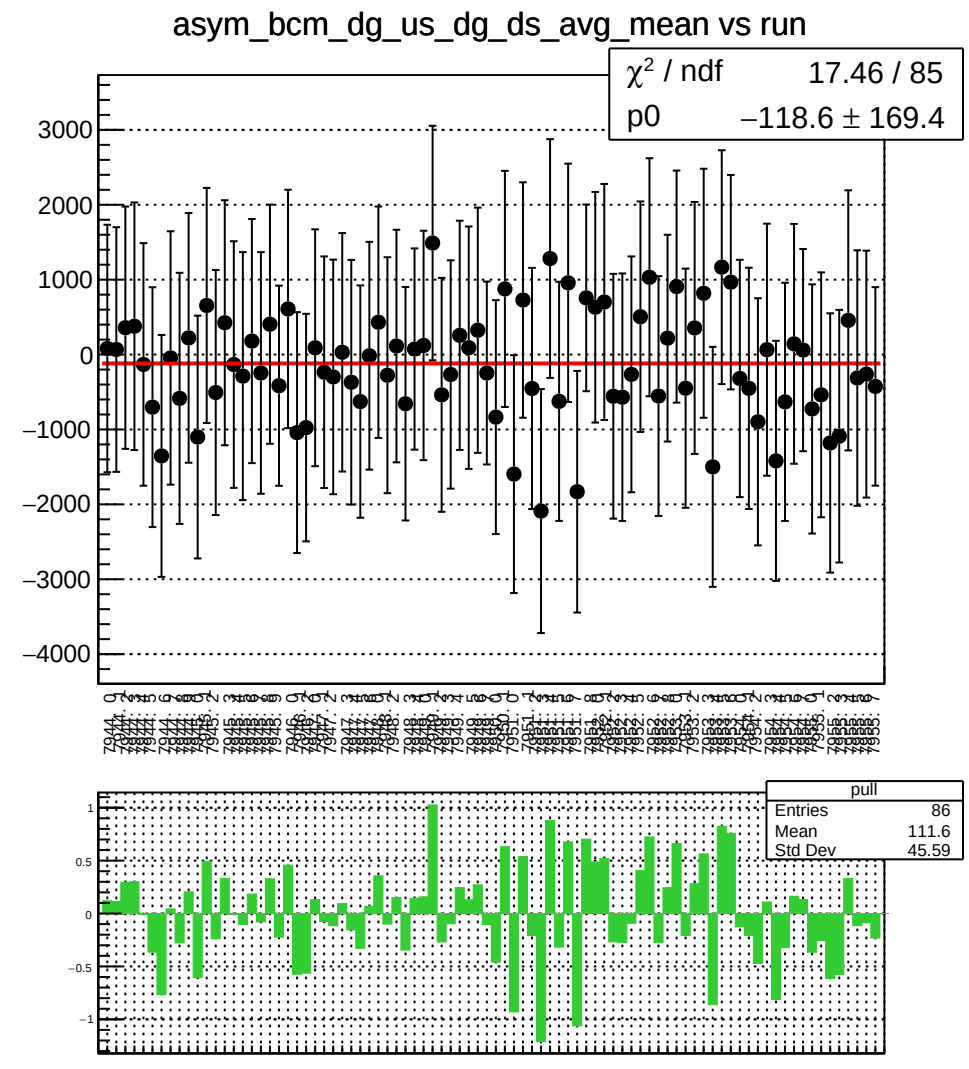

pull1D
Entries 86
Mean −0.004617
Std Dev 0.4284

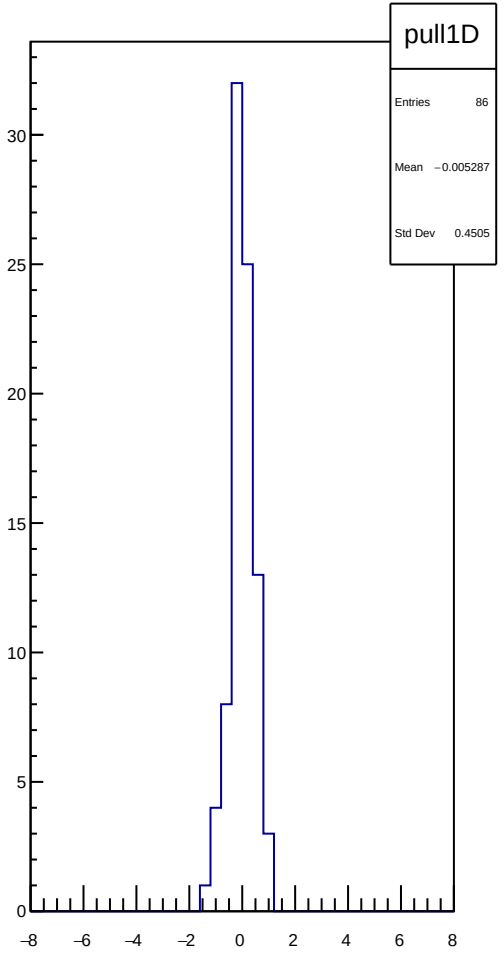

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1701 / 85
p0 151.4 ± 0.119
165
160
155
150
145
140

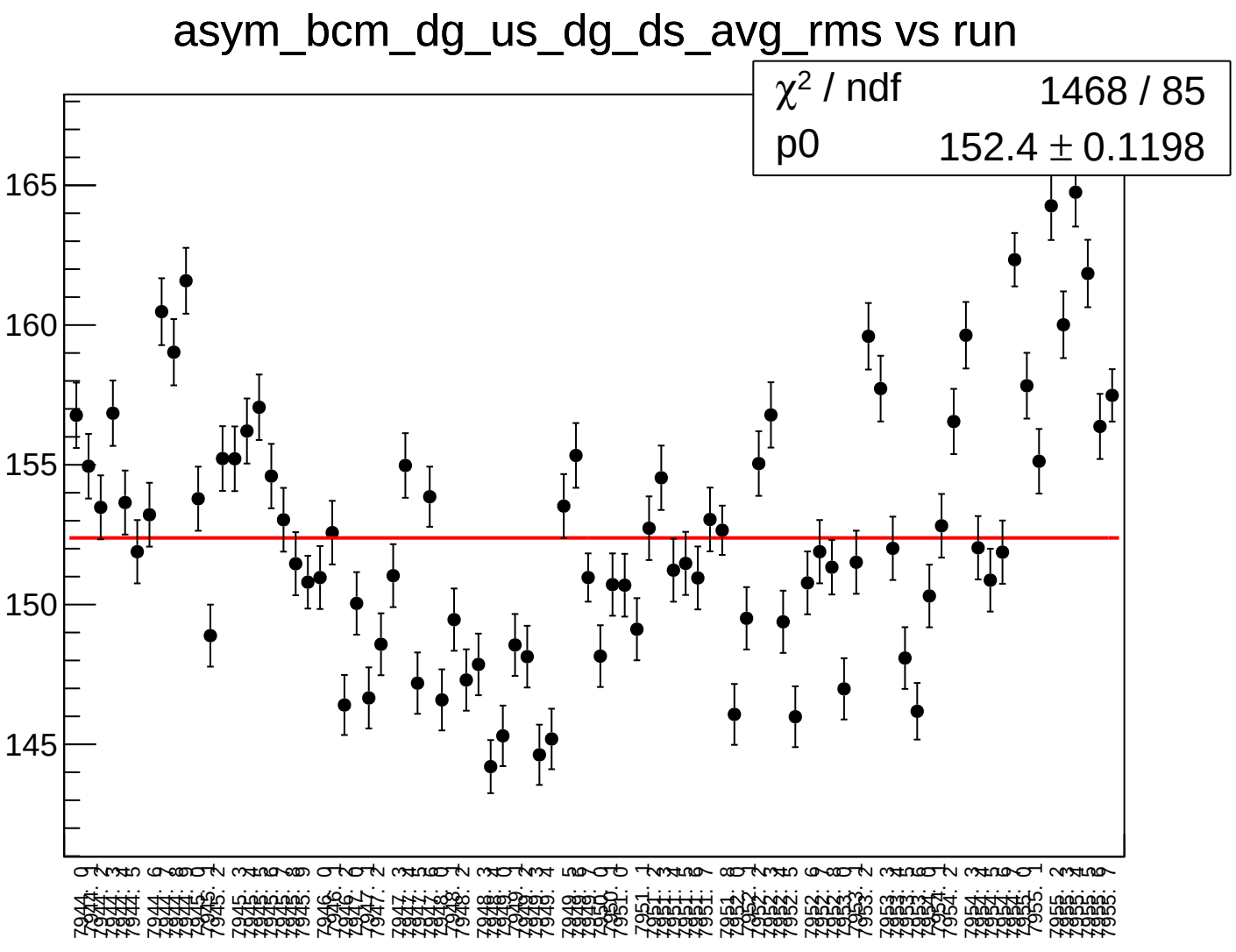

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 64.06 / 85
p0 −7.382 ± 12.28
pull
Entries 86
Mean 80.53
Std Dev 0

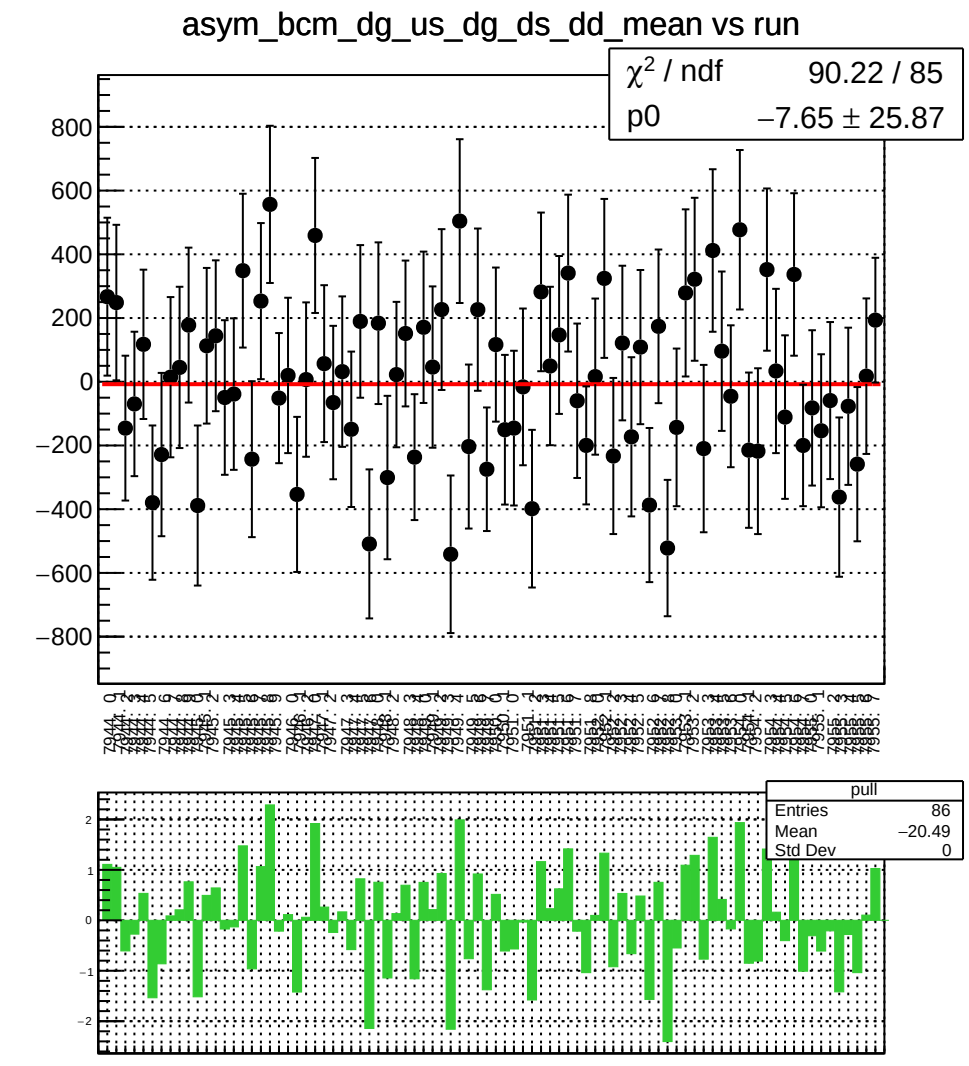

pull1D
Entries 86
Mean 0.03235
Std Dev 0.8625

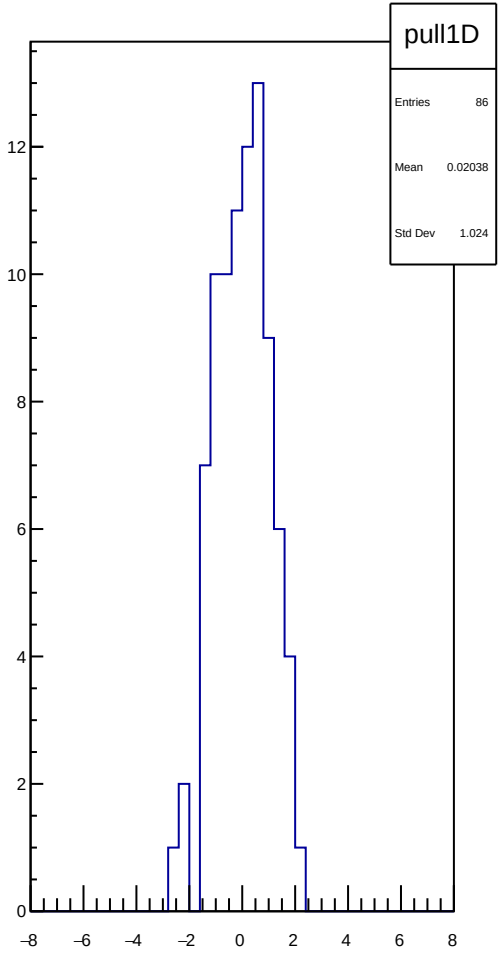

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 2.782e+04 / 85
p0 10.95 ± 0.008683
15
14
13
12
11
10
9

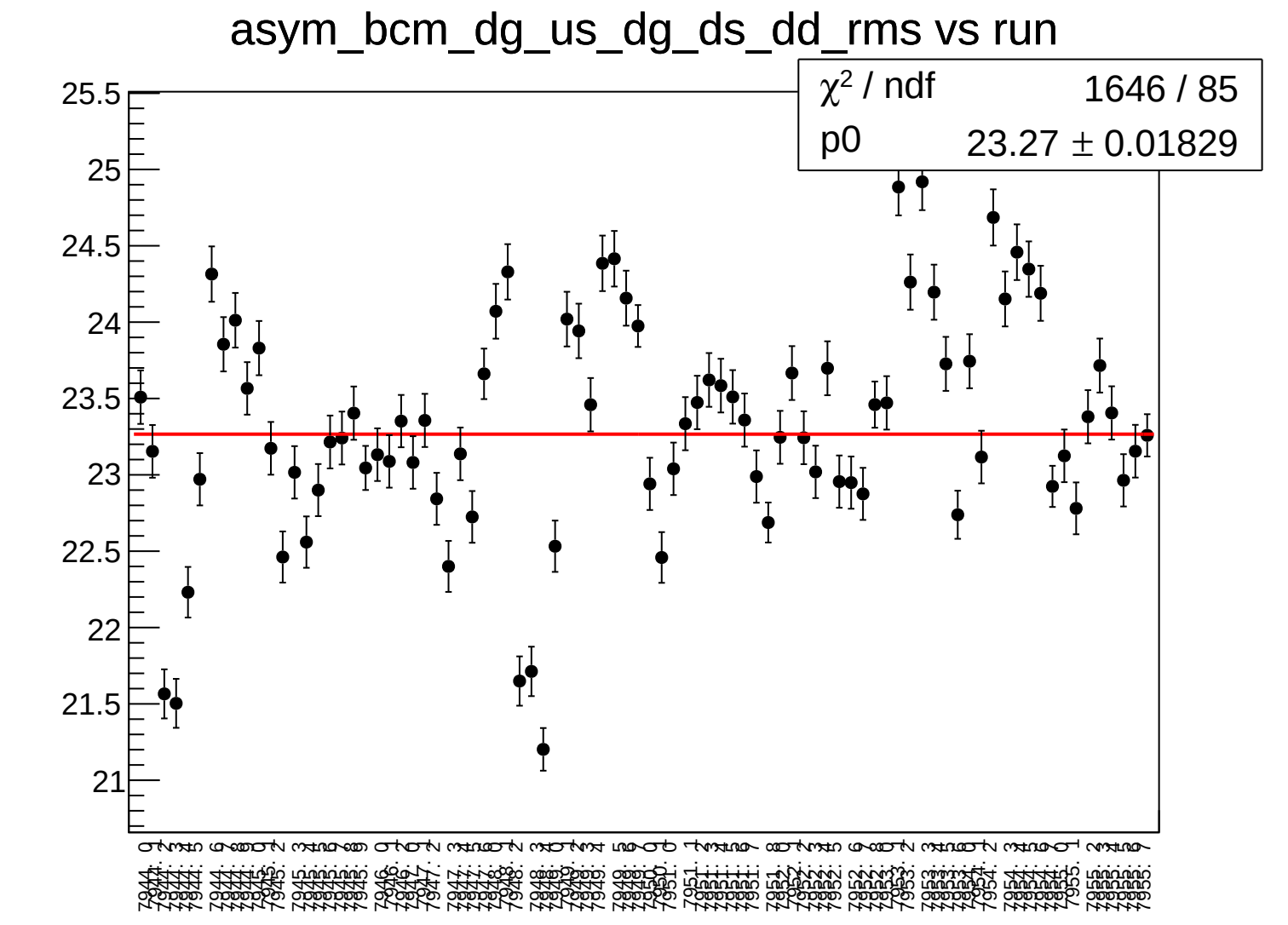

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 17.46 / 85
p0 −118.6 ± 169.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean 111.6
Std Dev 45.59
1
0.5
0
−0.5
−1

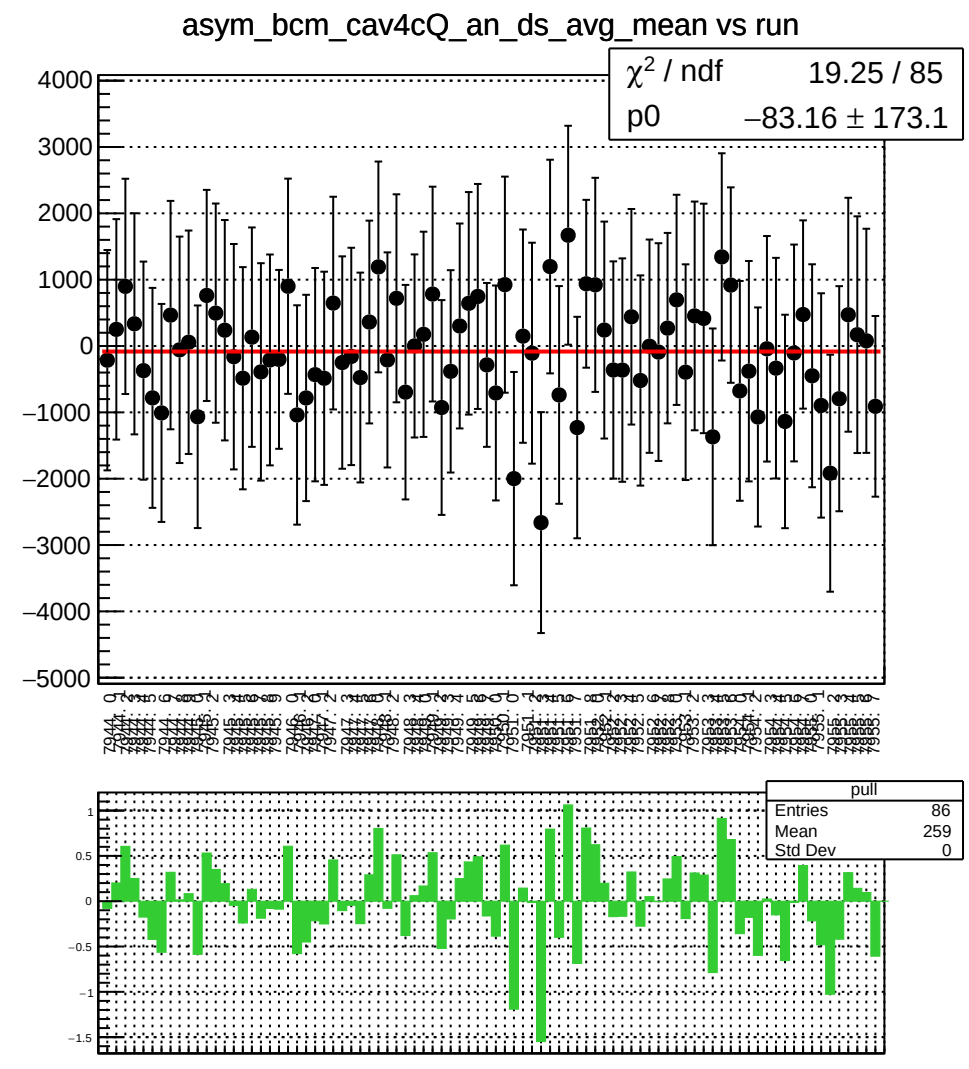

pull1D
Entries 86
Mean −0.005287
Std Dev 0.4505
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

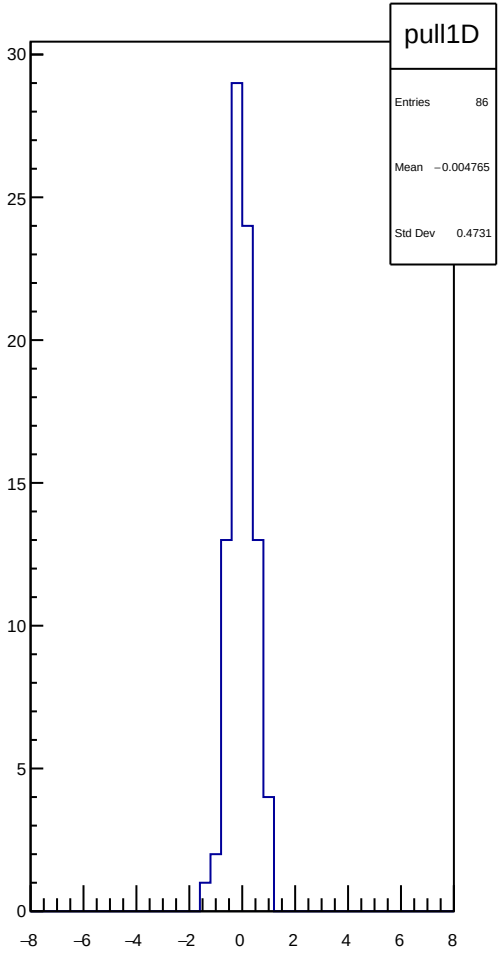

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1468 / 85
p0 152.4 ± 0.1198
165
160
155
150
145

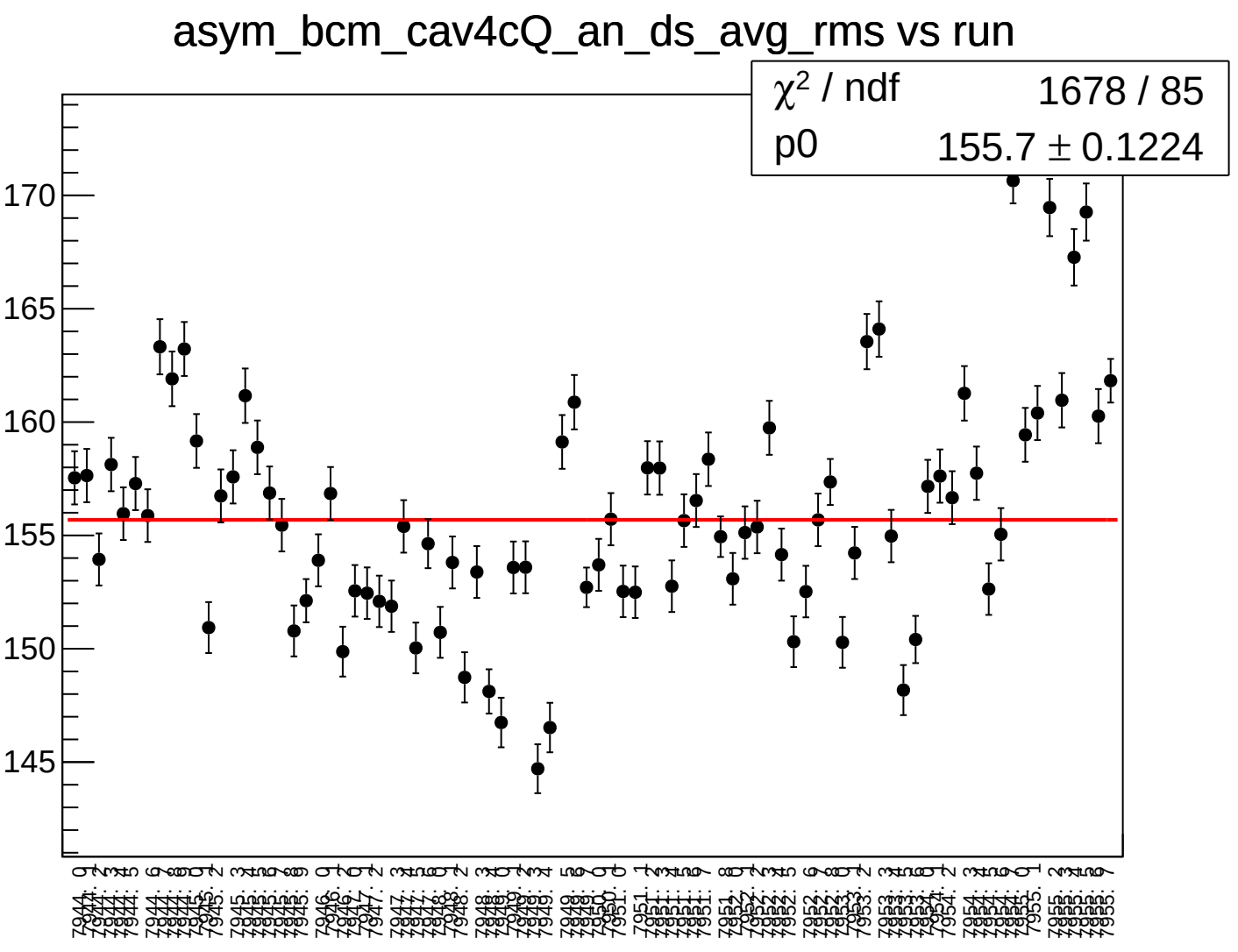

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 90.22 / 85
p0 −7.65 ± 25.87
pull
Entries 86
Mean −20.49
Std Dev 0

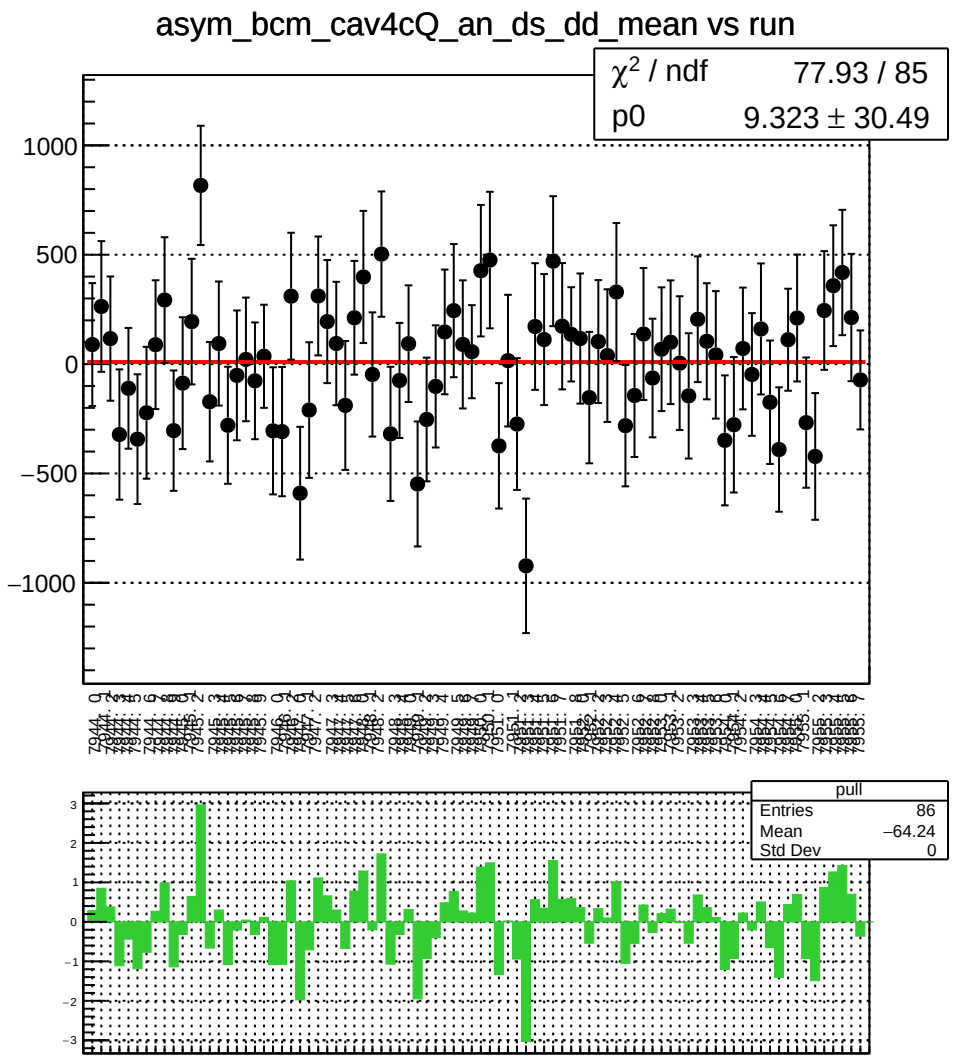

pull1D
Entries 86
Mean 0.02038
Std Dev 1.024

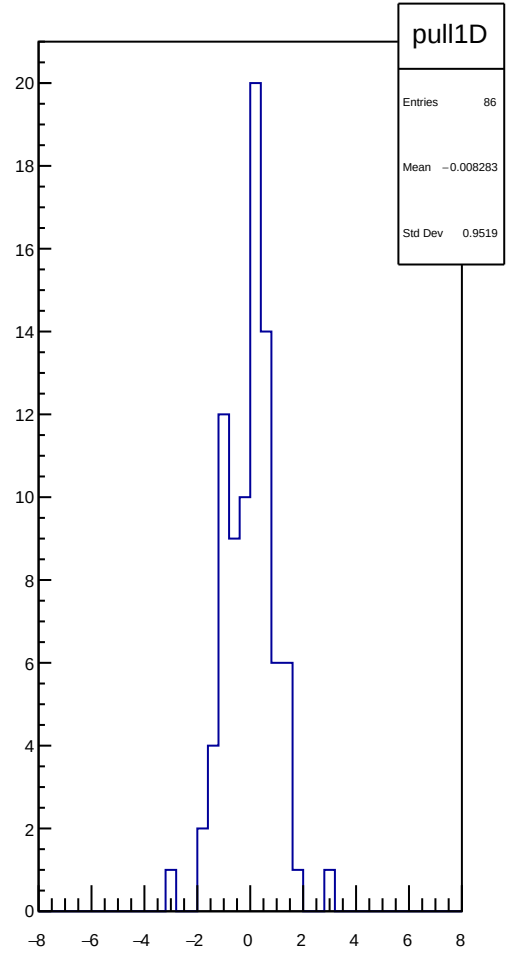

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1646 / 85
p0 23.27 ± 0.01829
25.5
25
24.5
24
23.5
23
22.5
22
21.5
21

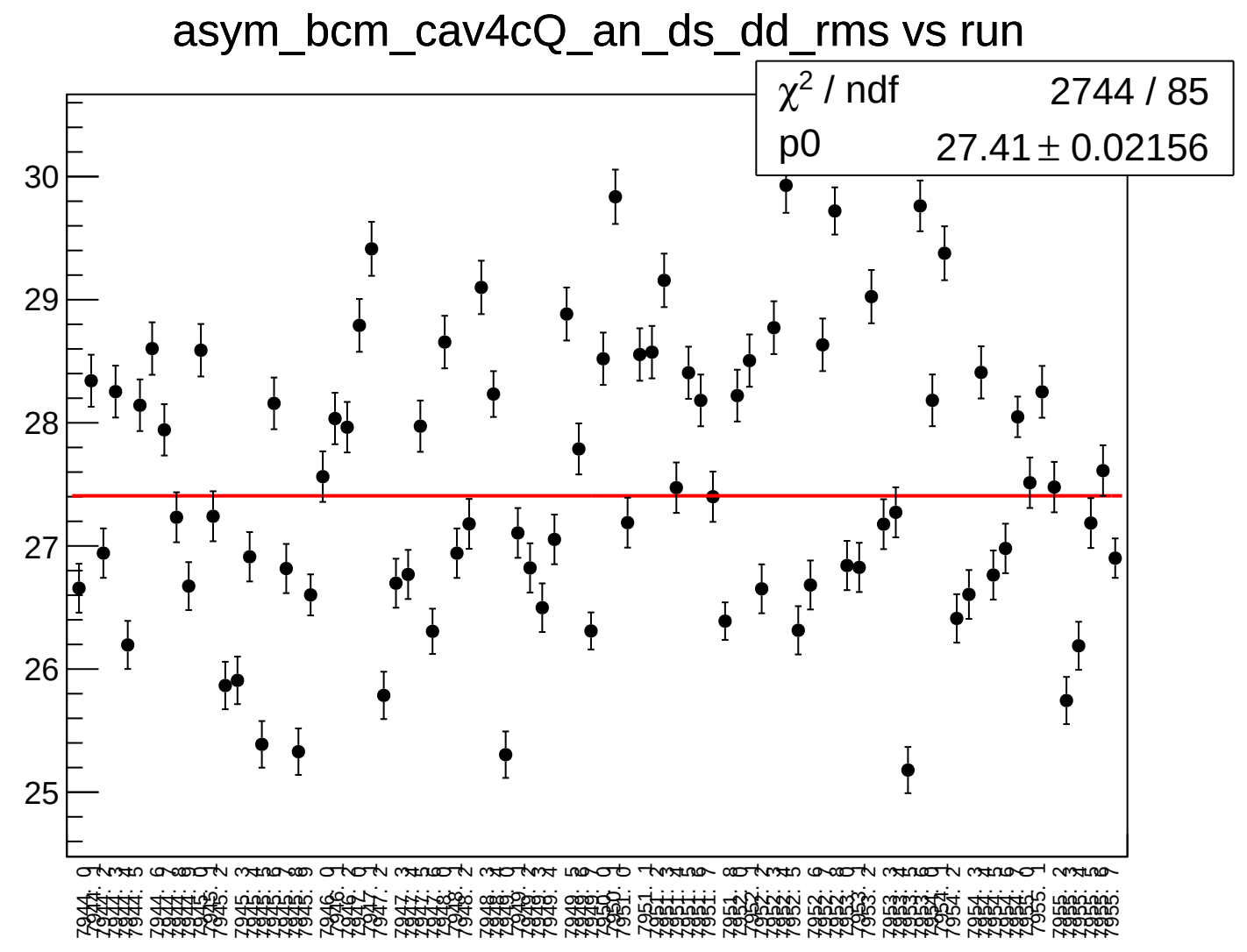

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 19.25 / 85
p0 −83.16 ± 173.1
pull
Entries 86
Mean 259
Std Dev 0

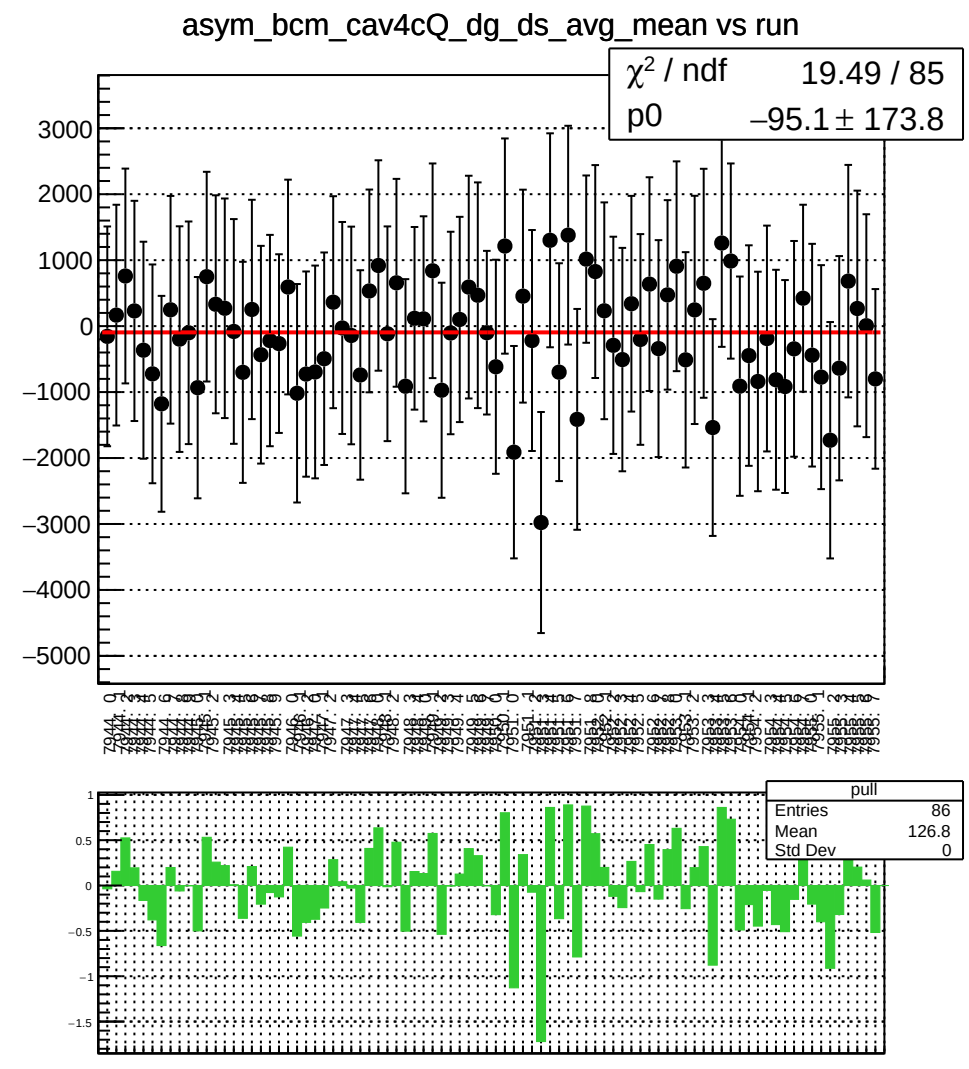

pull1D
Entries 86
Mean −0.004765
Std Dev 0.4731

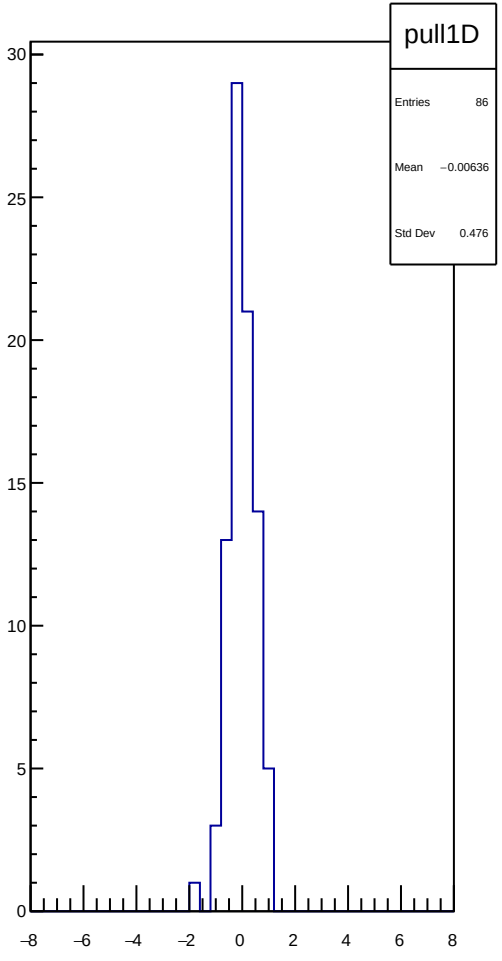

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1678 / 85
p0 155.7 ± 0.1224
170
165
160
155
150
145

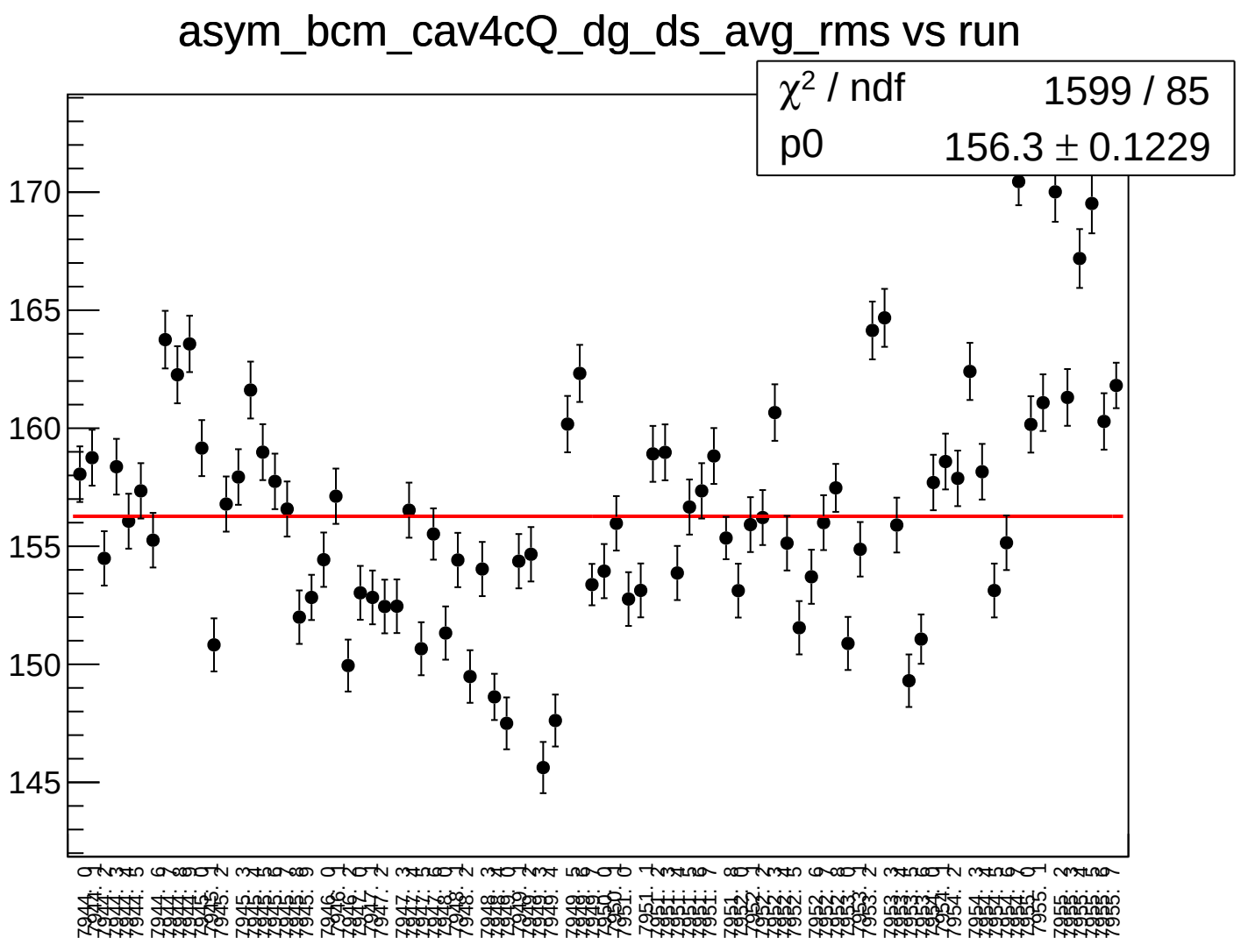

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 77.93 / 85
p0 9.323 ± 30.49
1000
500
0
−500
−1000
pull
Entries 86
Mean −64.24
Std Dev 0
3
2
1
0
−1
−2
−3

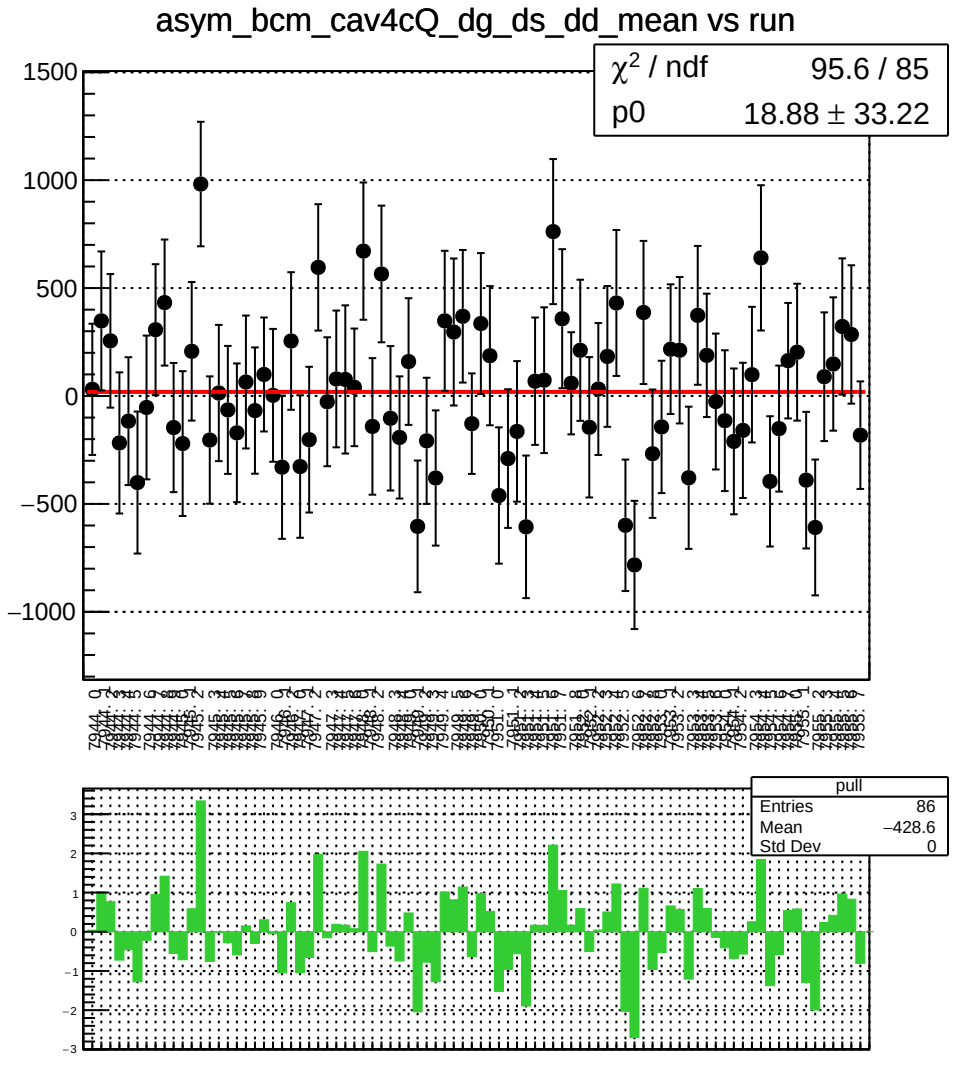

pull1D
Entries 86
Mean −0.008283
Std Dev 0.9519
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

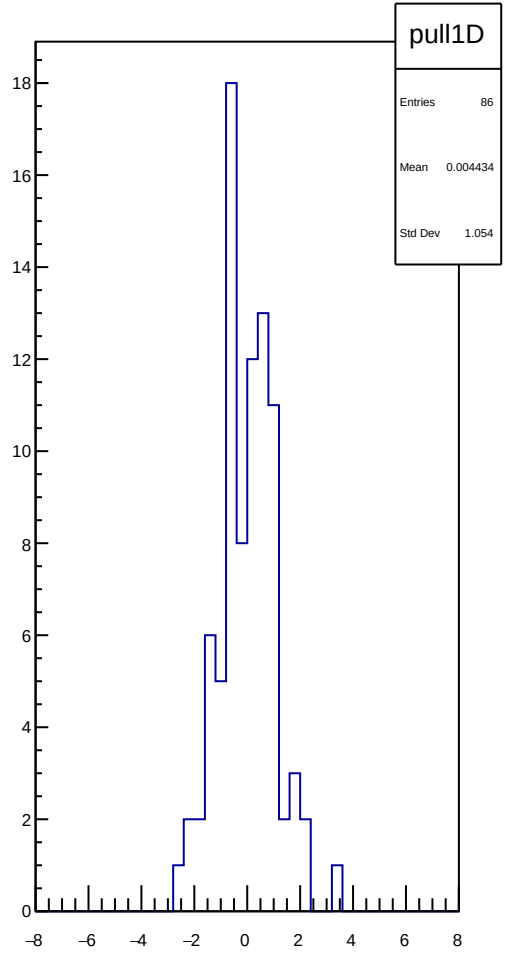

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2744 / 85
p0 27.41 ± 0.02156
30
29
28
27
26
25

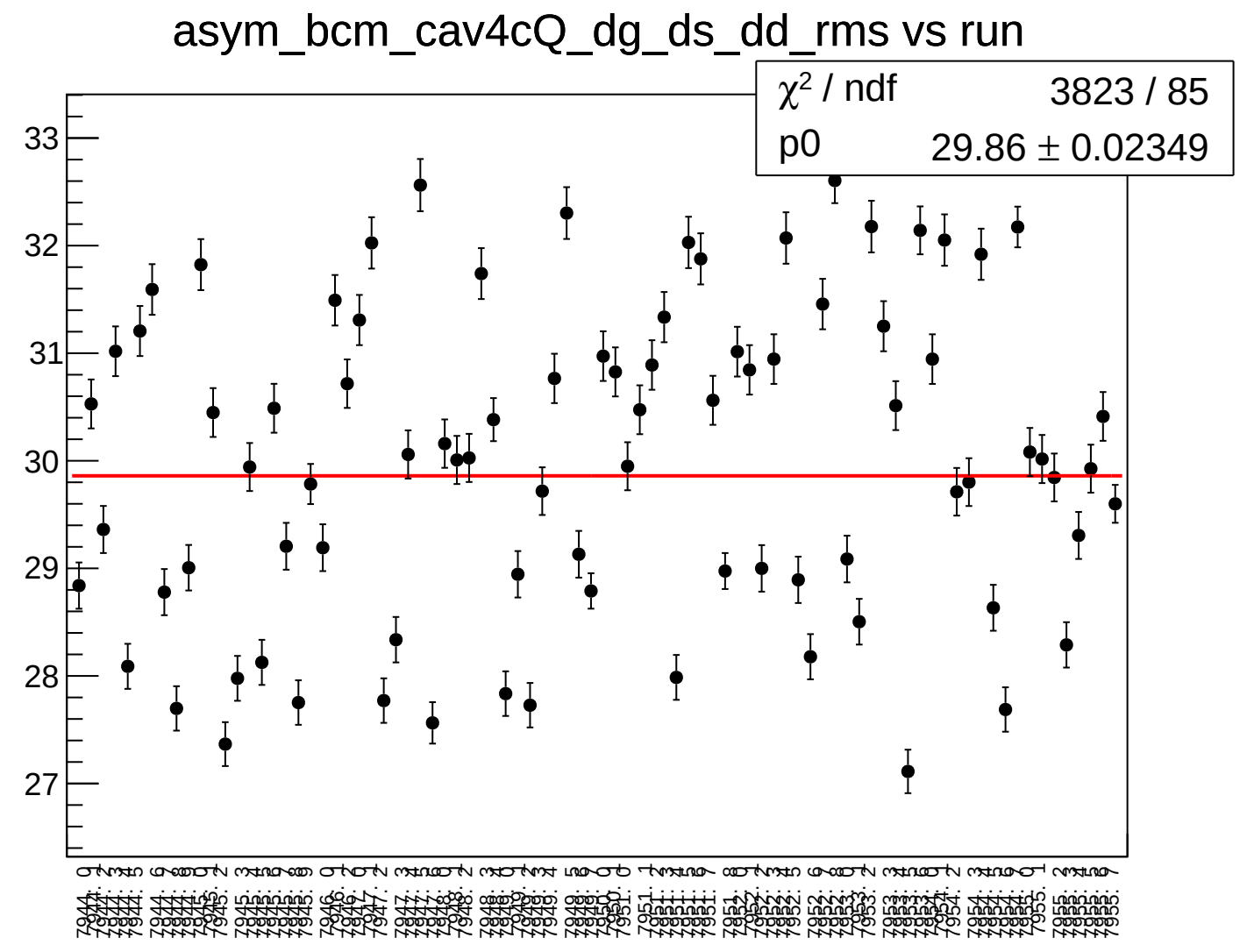

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 19.49 / 85
p0 −95.1 ± 173.8
pull
Entries 86
Mean 126.8
Std Dev 0

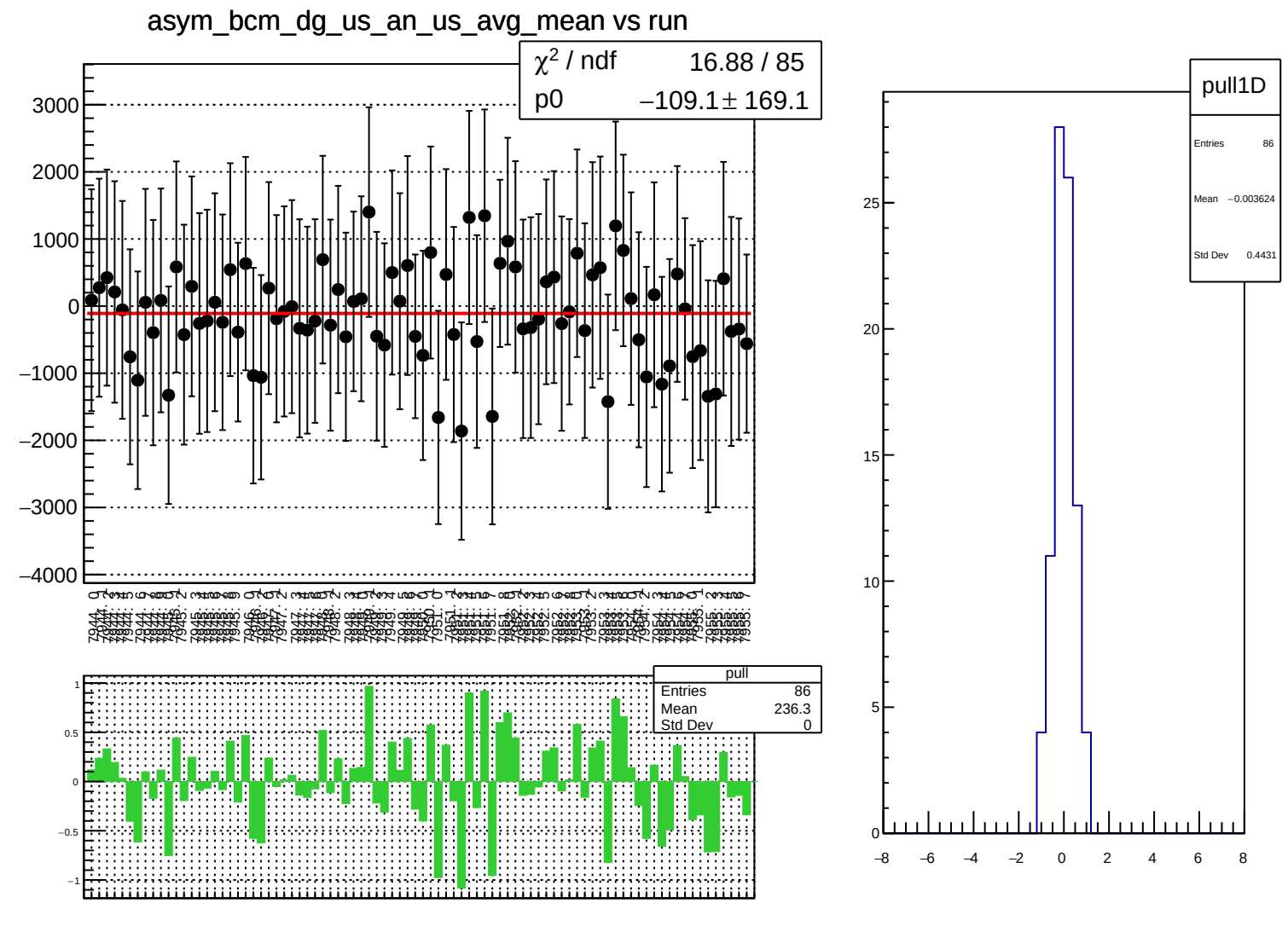

pull1D
Entries 86
Mean −0.00636
Std Dev 0.476

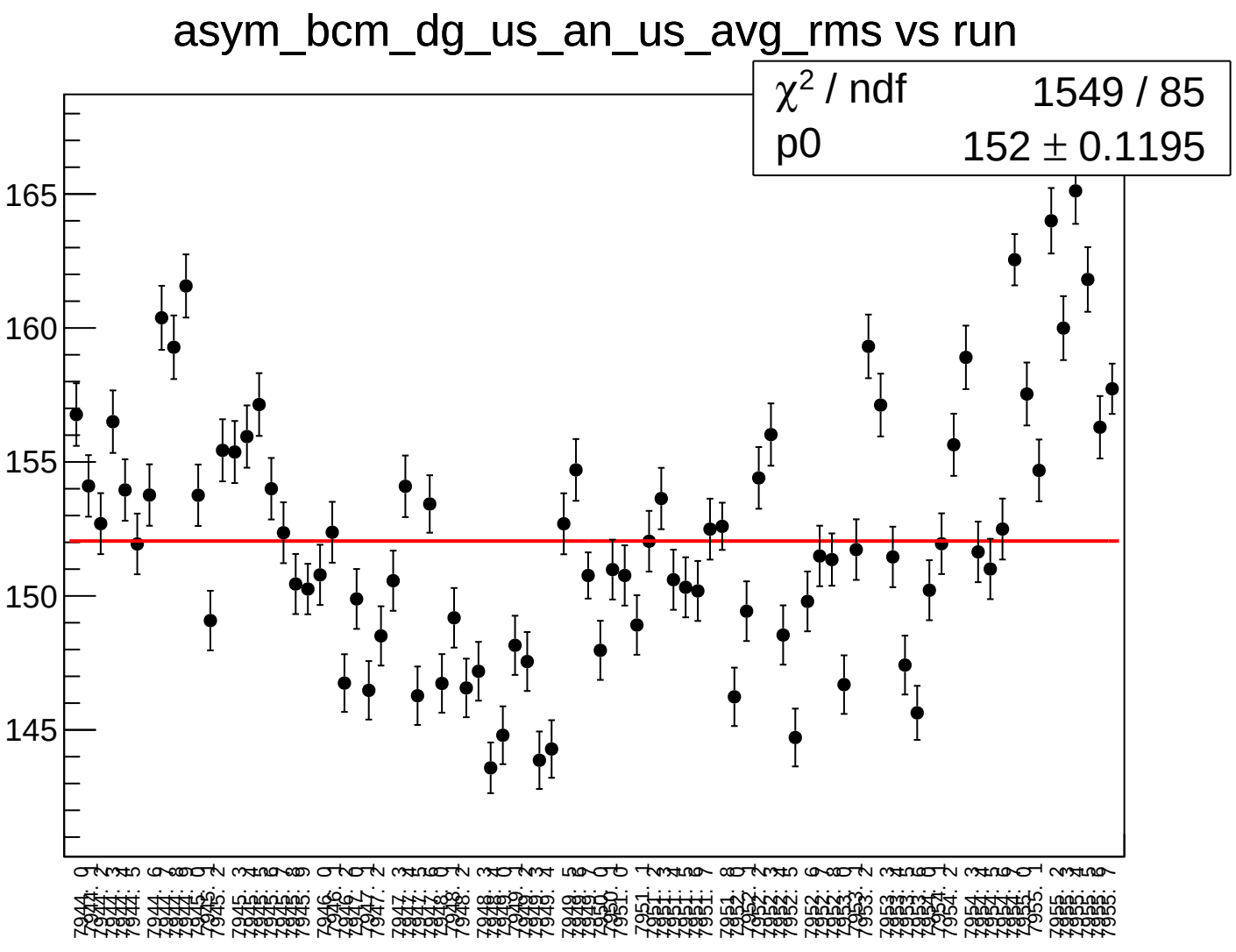

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1599 / 85
p0 156.3 ± 0.1229
170
165
160
155
150
145

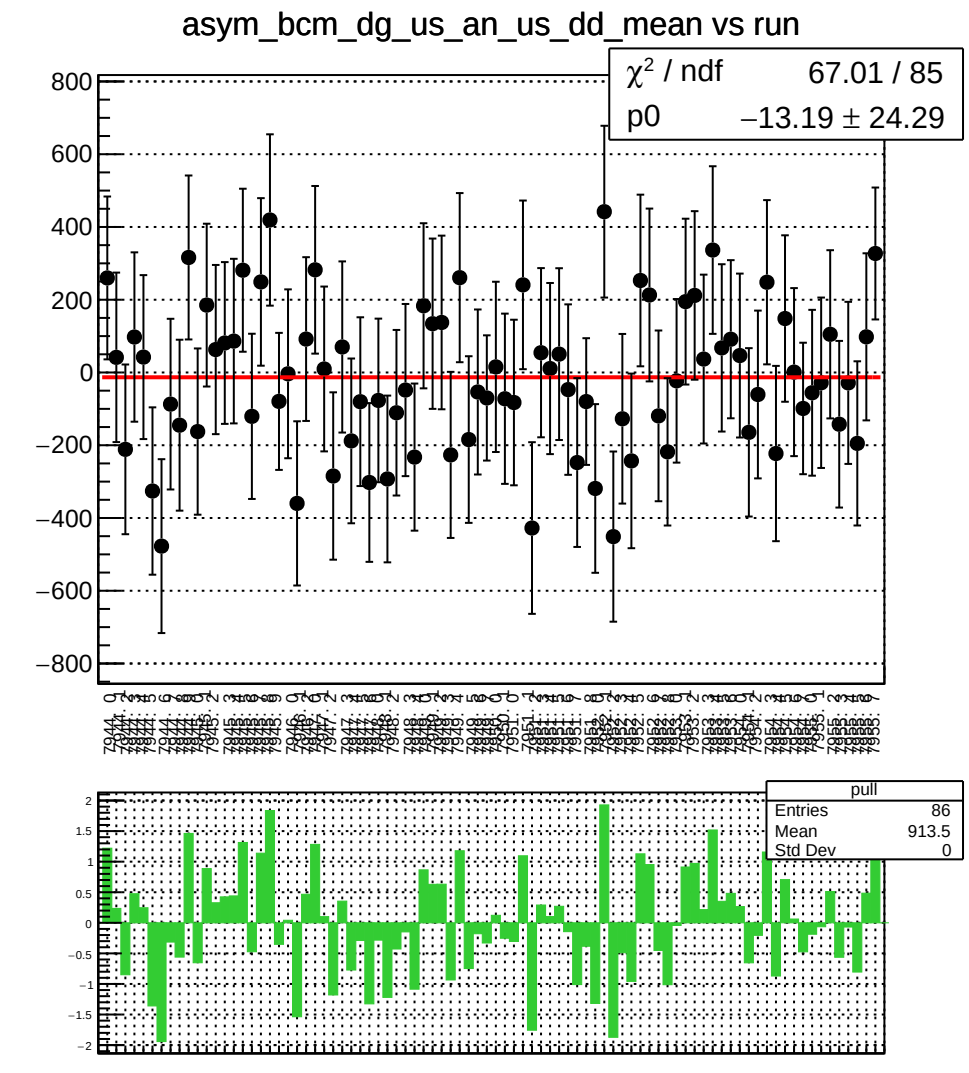

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 95.6 / 85
p0 18.88 ± 33.22
1500
1000
500
0
−500
−1000
pull
Entries 86
Mean −428.6
Std Dev 0
3
2
1
0
−1
−2
−3

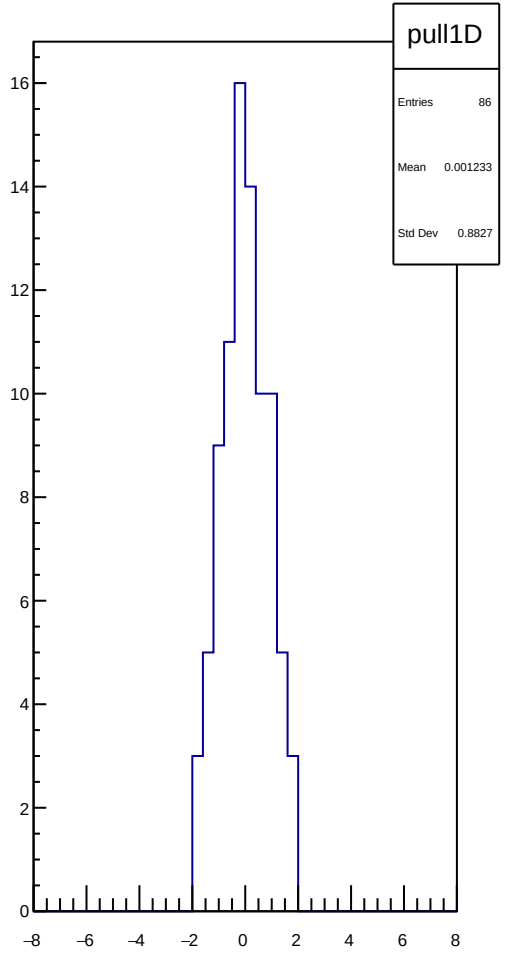

pull1D
Entries 86
Mean 0.004434
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

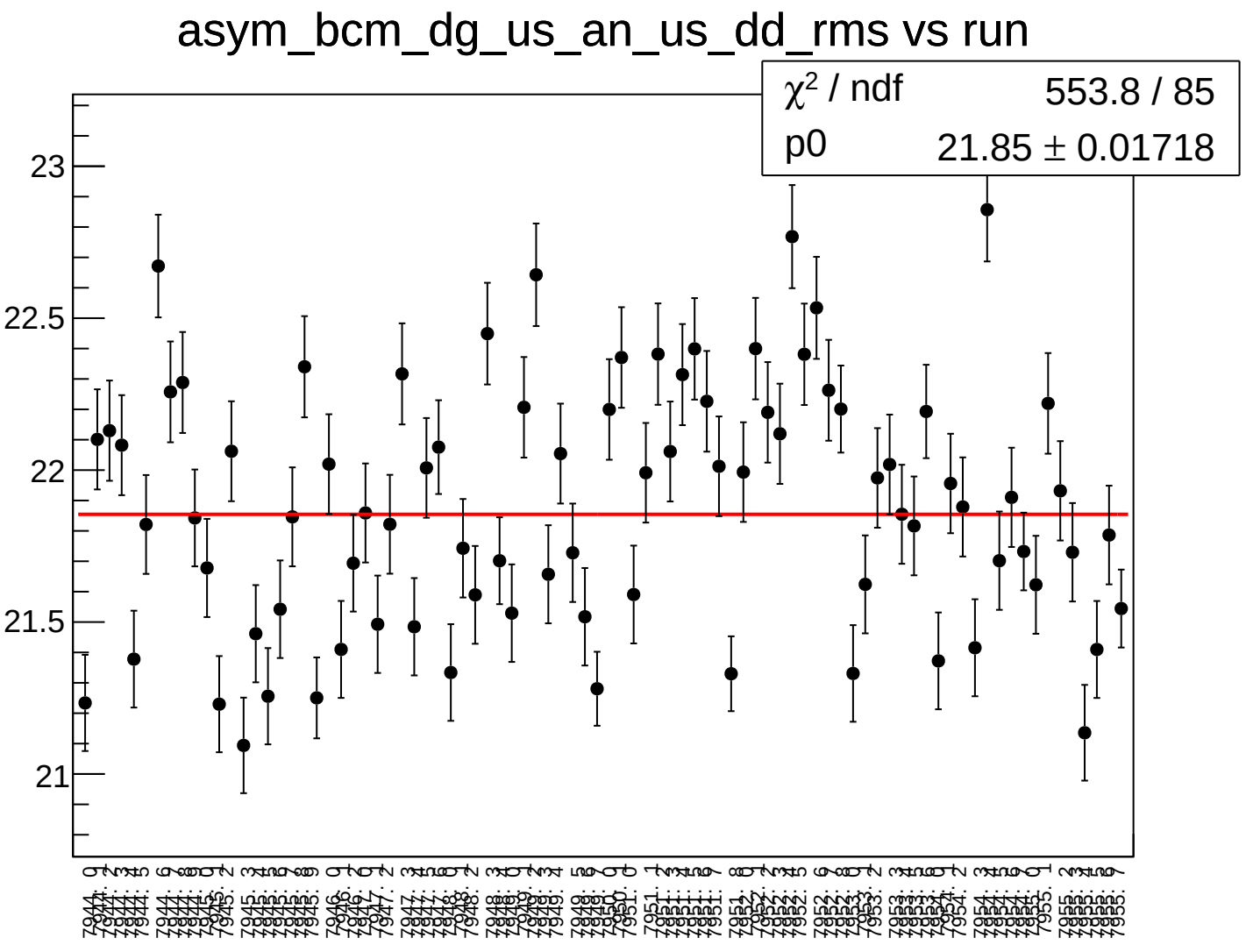

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 3823 / 85
p0 29.86 ± 0.02349
33
32
31
30
29
28
27

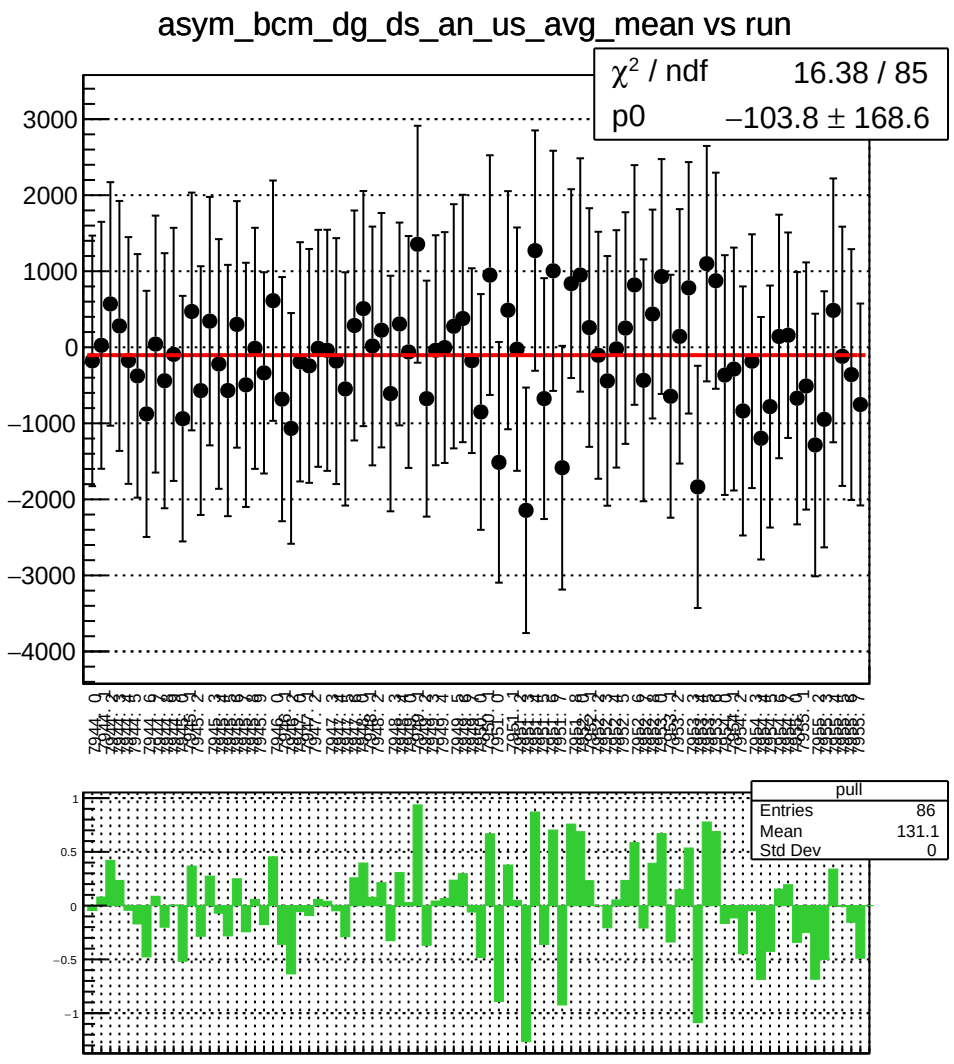

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 16.88 / 85
p0 −109.1 ± 169.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean 236.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.003624
Std Dev 0.4431
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

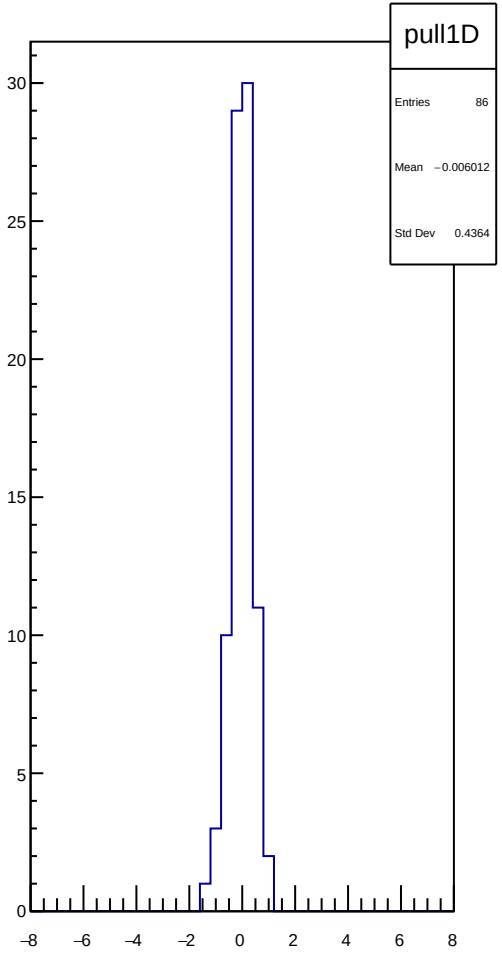

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1549 / 85
p0 152 ± 0.1195
165
160
155
150
145

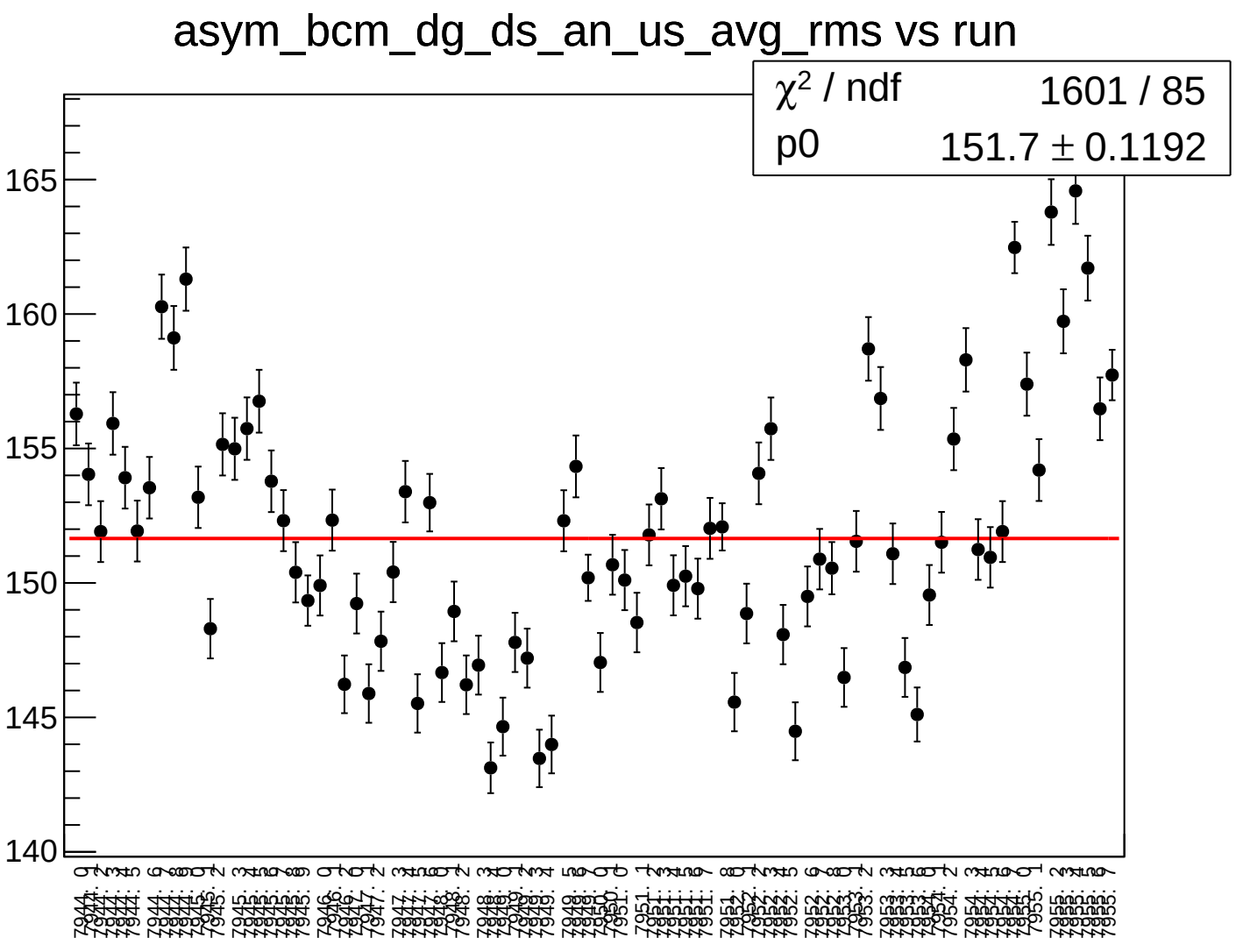

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 67.01 / 85
p0 −13.19 ± 24.29
pull
Entries 86
Mean 913.5
Std Dev 0

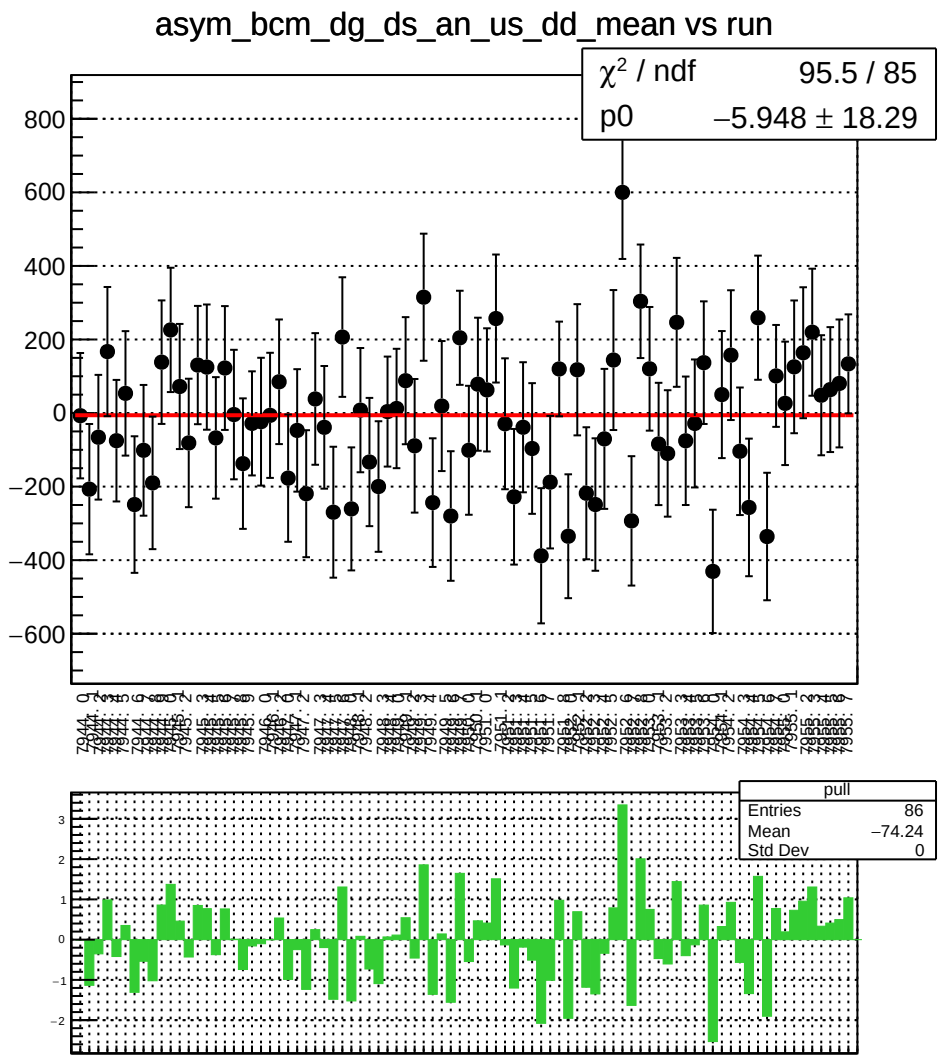

pull1D
Entries 86
Mean 0.001233
Std Dev 0.8827

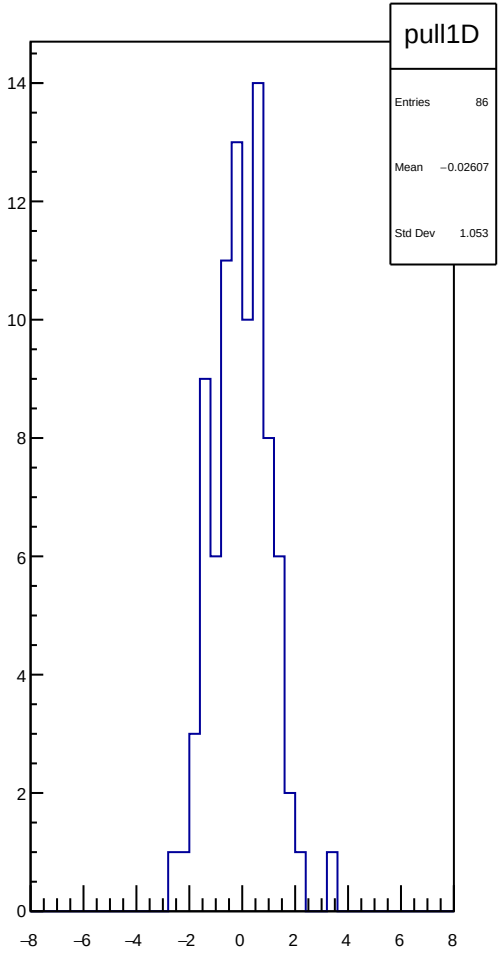

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 553.8 / 85
p0 21.85 ± 0.01718
23
22.5
22
21.5
21

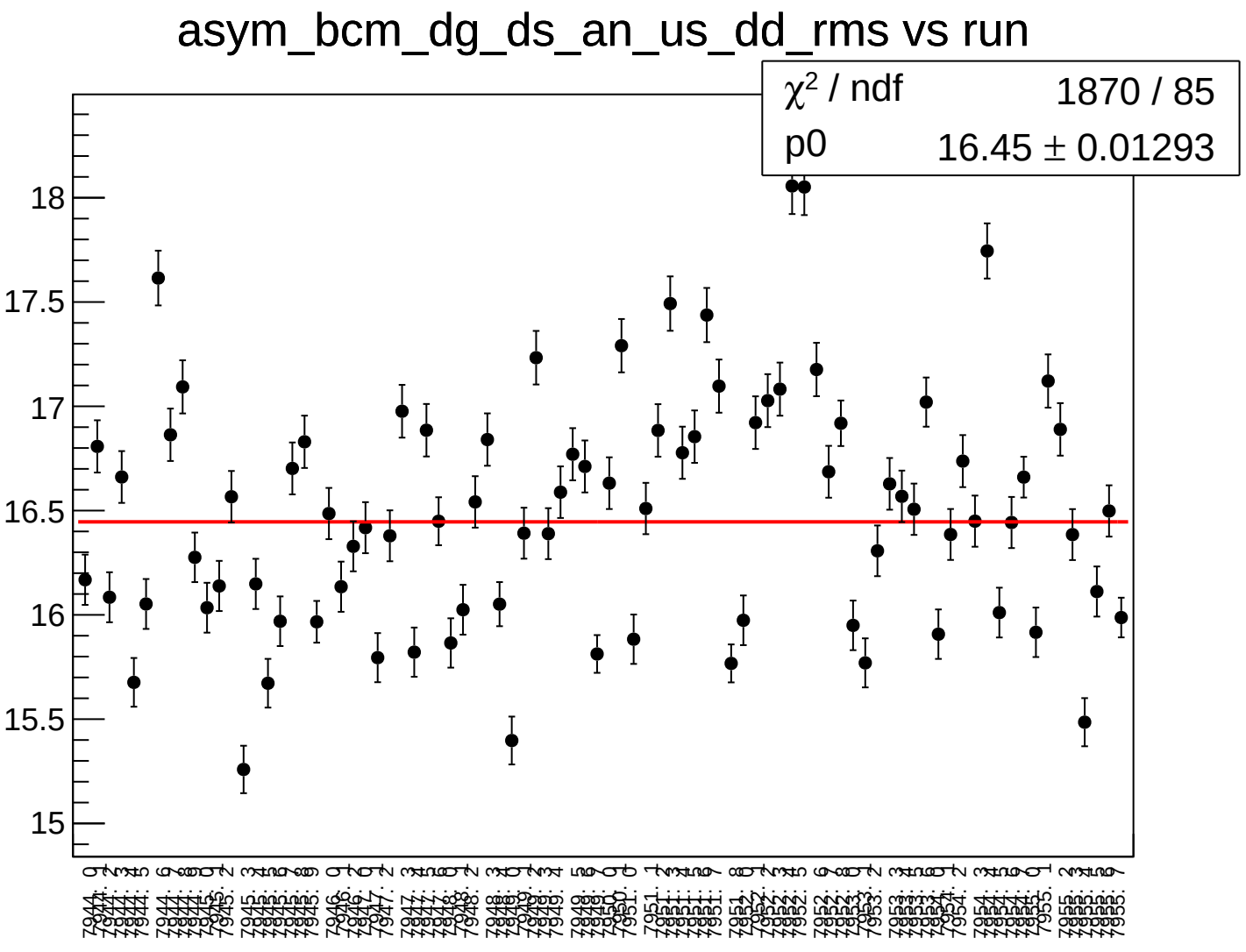

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 16.38 / 85
p0 −103.8 ± 168.6
pull
Entries 86
Mean 131.1
Std Dev 0

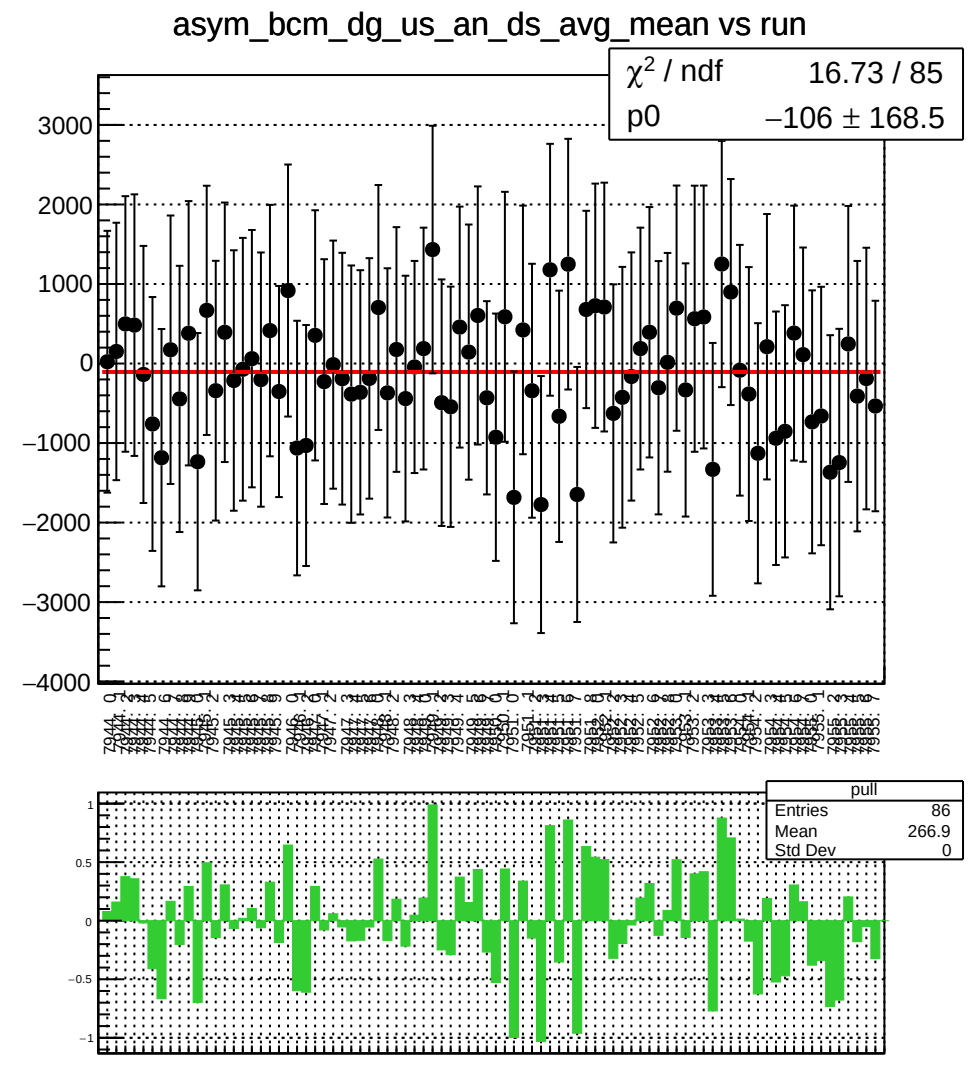

pull1D
Entries 86
Mean −0.006012
Std Dev 0.4364

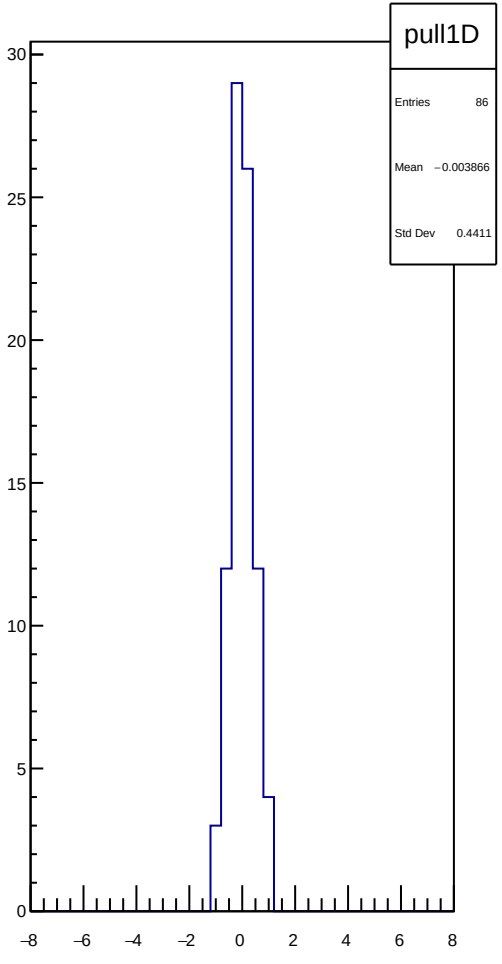

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1601 / 85
p0 151.7 ± 0.1192
165
160
155
150
145
140

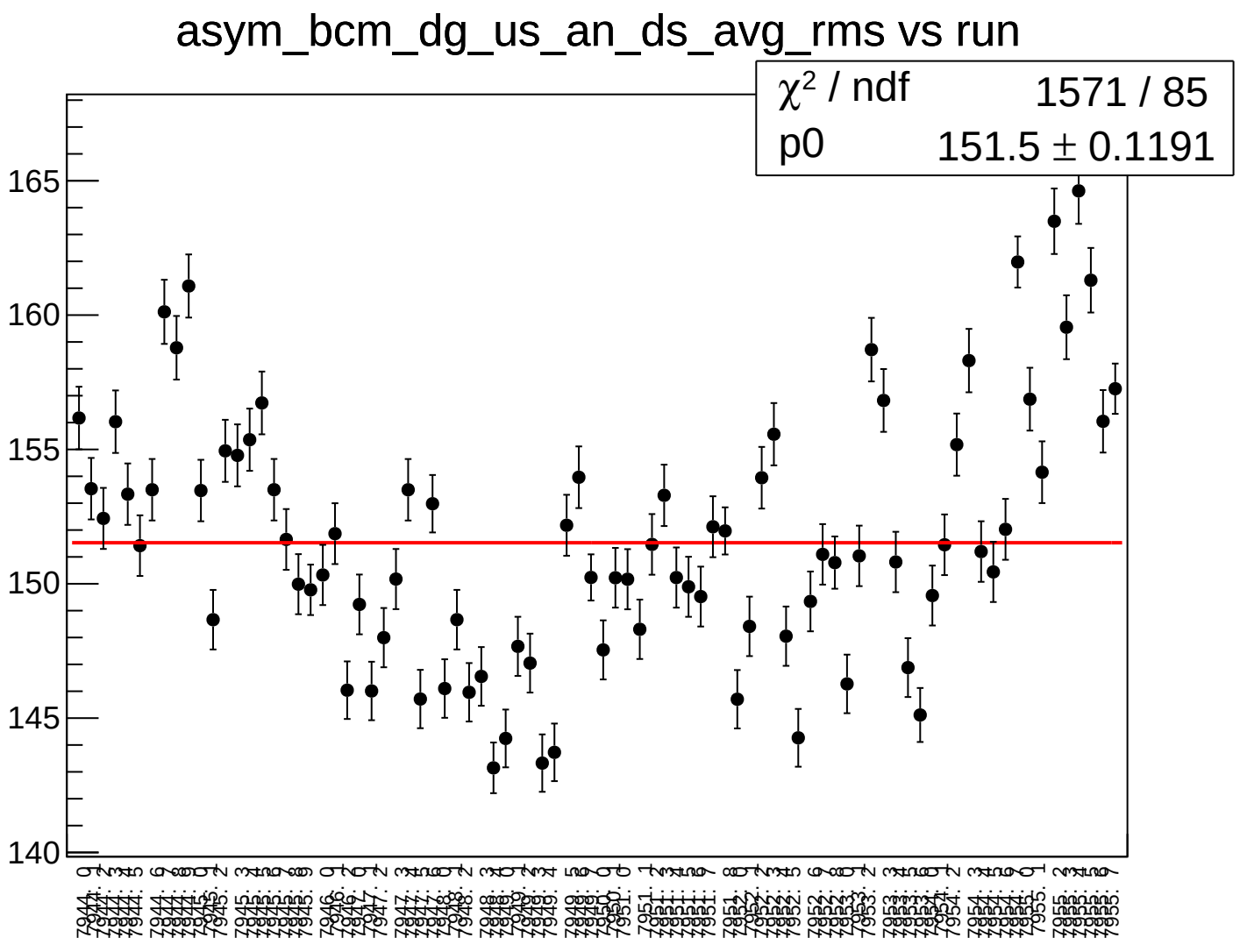

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 95.5 / 85
p0 −5.948 ± 18.29
pull
Entries 86
Mean −74.24
Std Dev 0

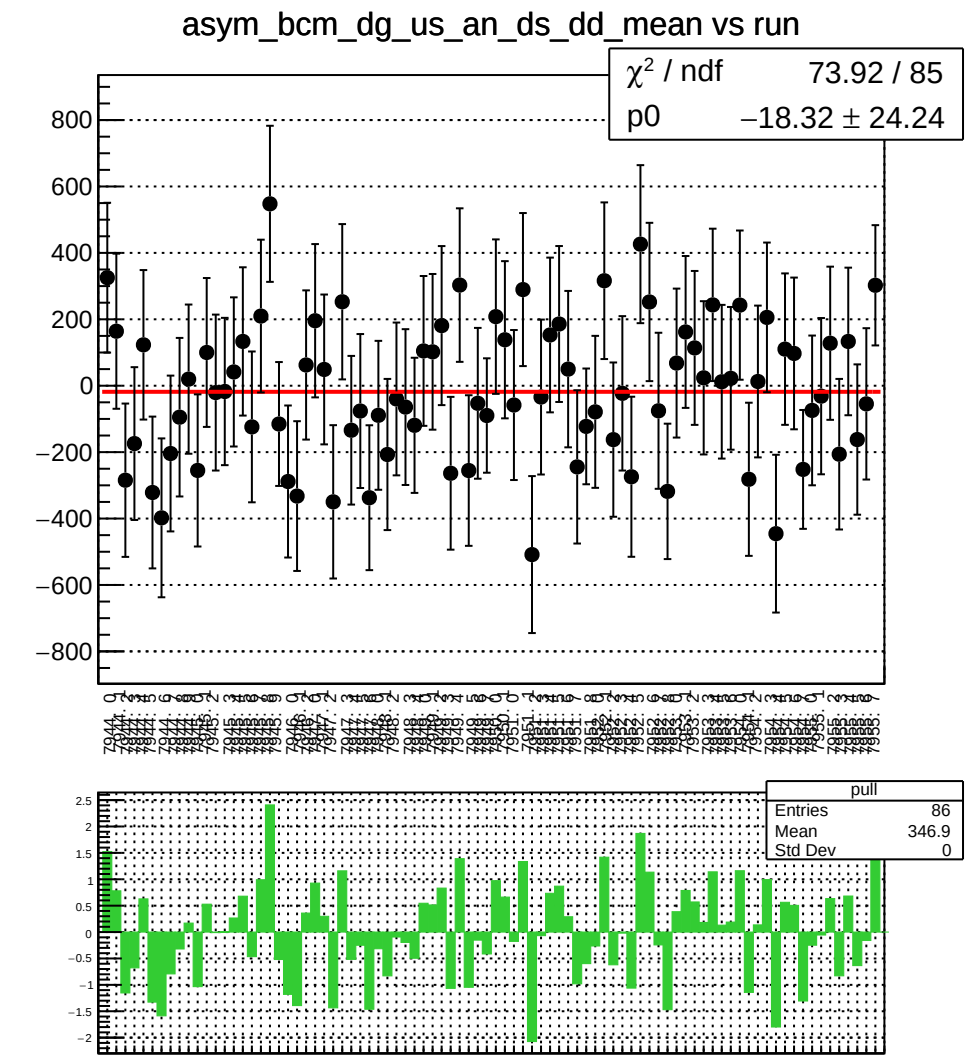

pull1D
Entries 86
Mean −0.02607
Std Dev 1.053

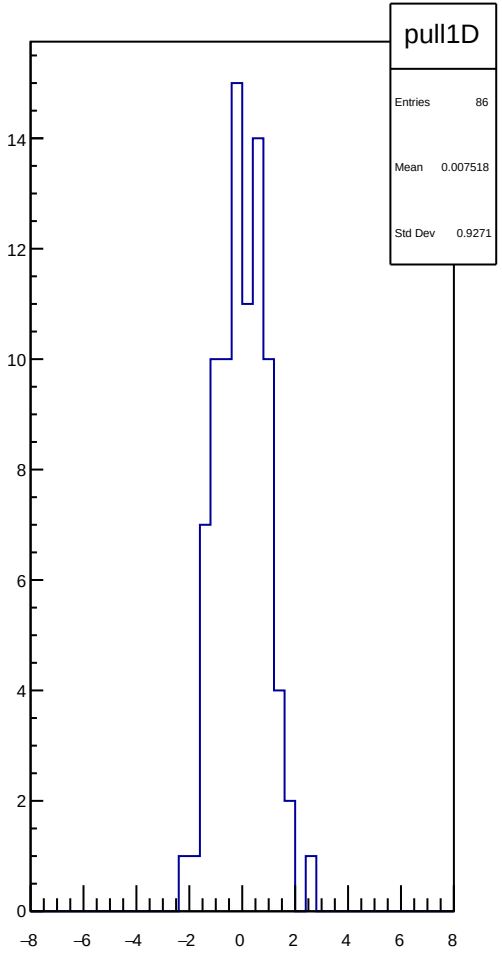

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1870 / 85
p0 16.45 ± 0.01293
18
17.5
17
16.5
16
15.5
15

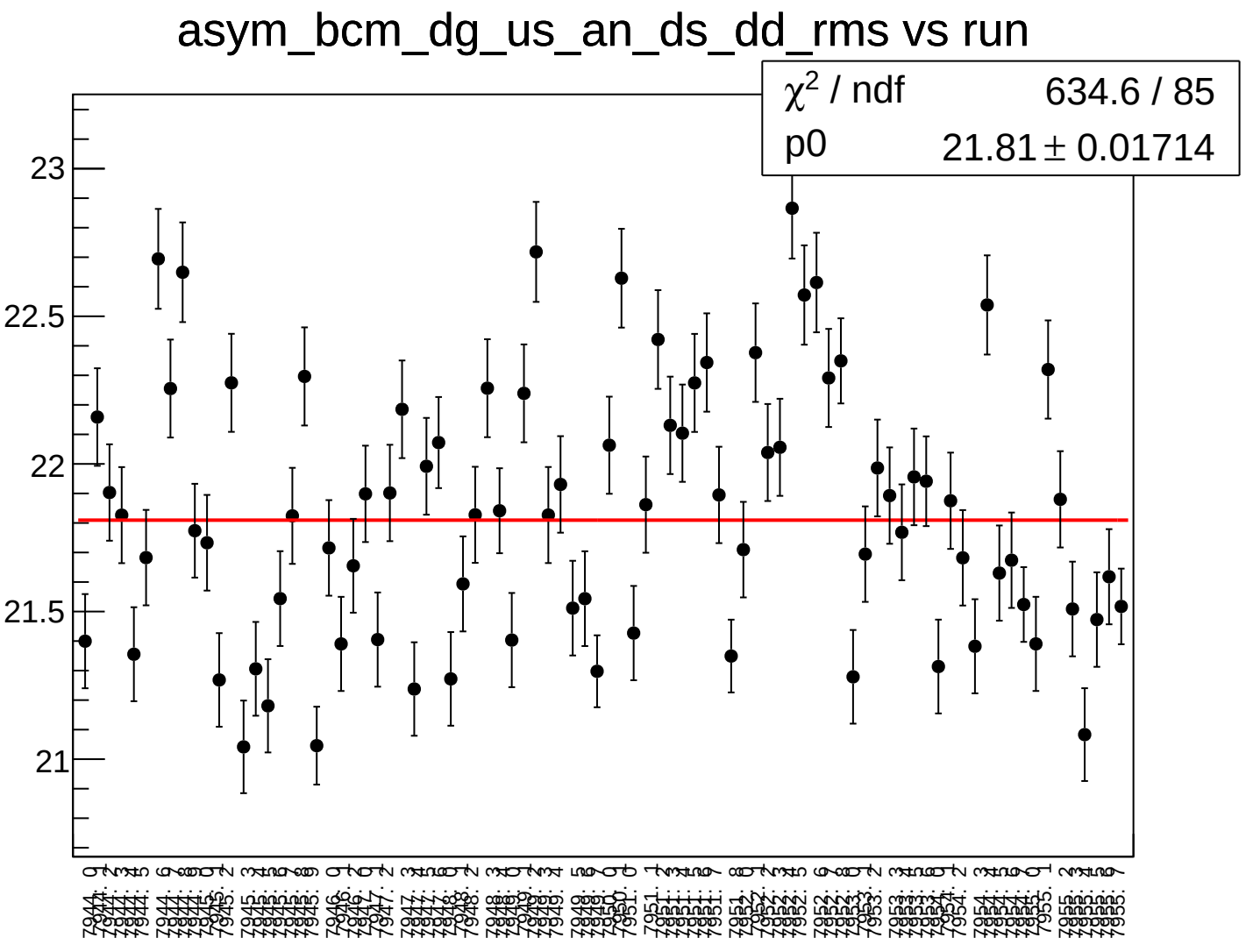

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 16.73 / 85
p0 −106 ± 168.5
pull
Entries 86
Mean 266.9
Std Dev 0

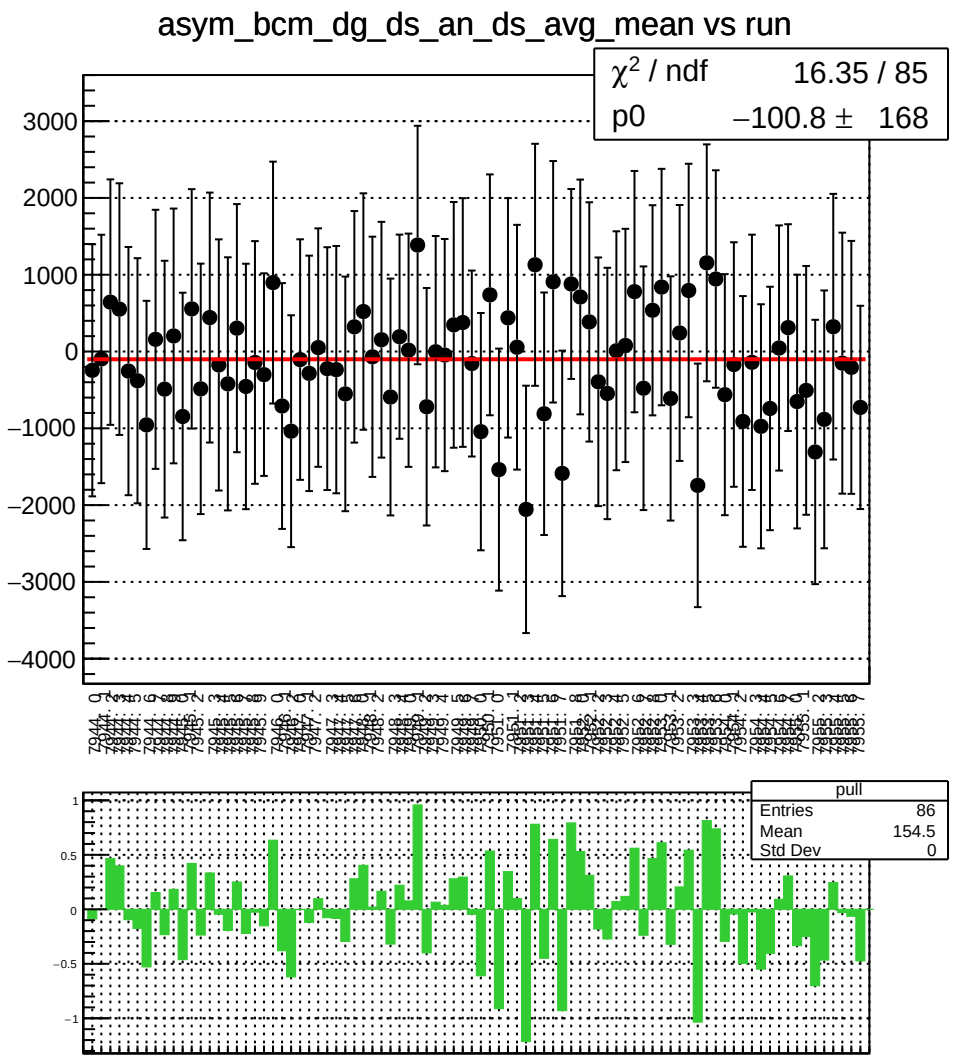

pull1D
Entries 86
Mean −0.003866
Std Dev 0.4411

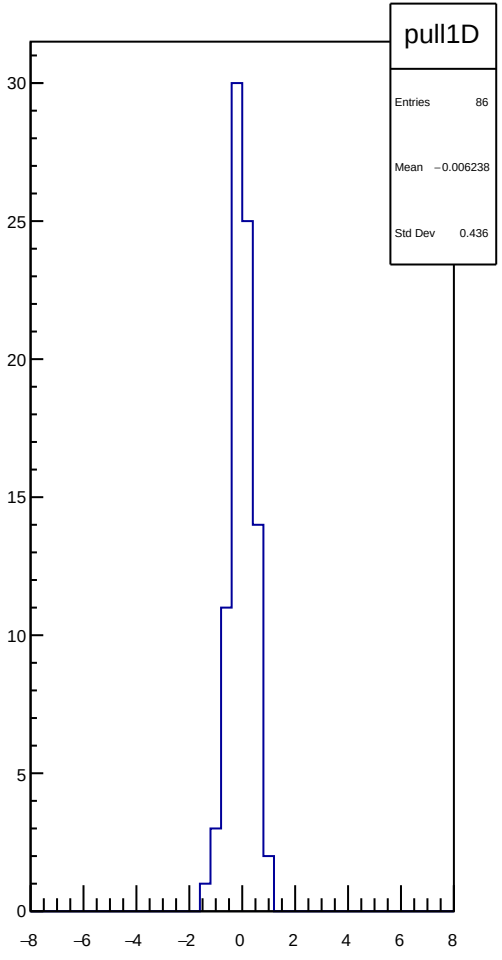

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1571 / 85
p0 151.5 ± 0.1191
165
160
155
150
145
140

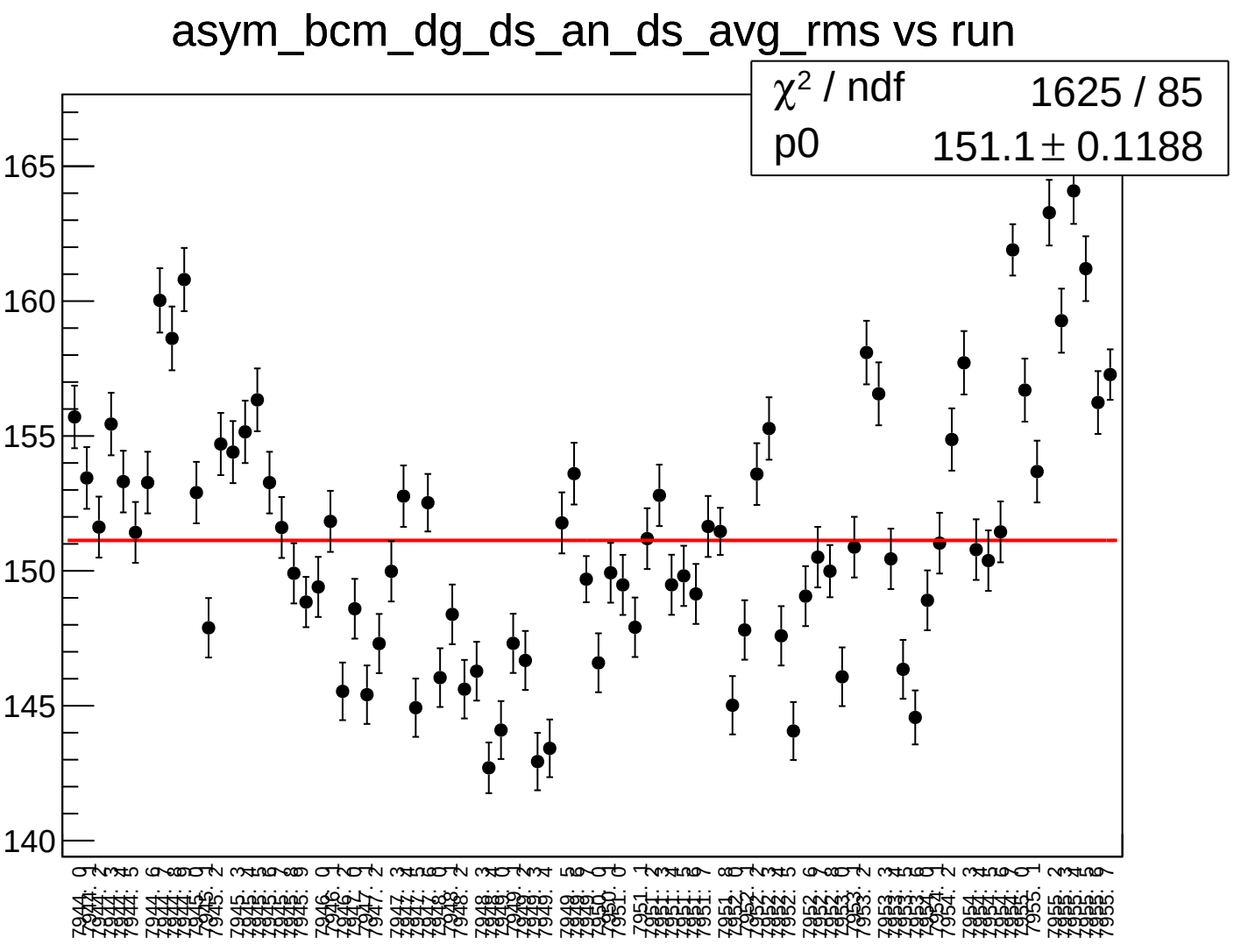

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 73.92 / 85
p0 −18.32 ± 24.24
pull
Entries 86
Mean 346.9
Std Dev 0

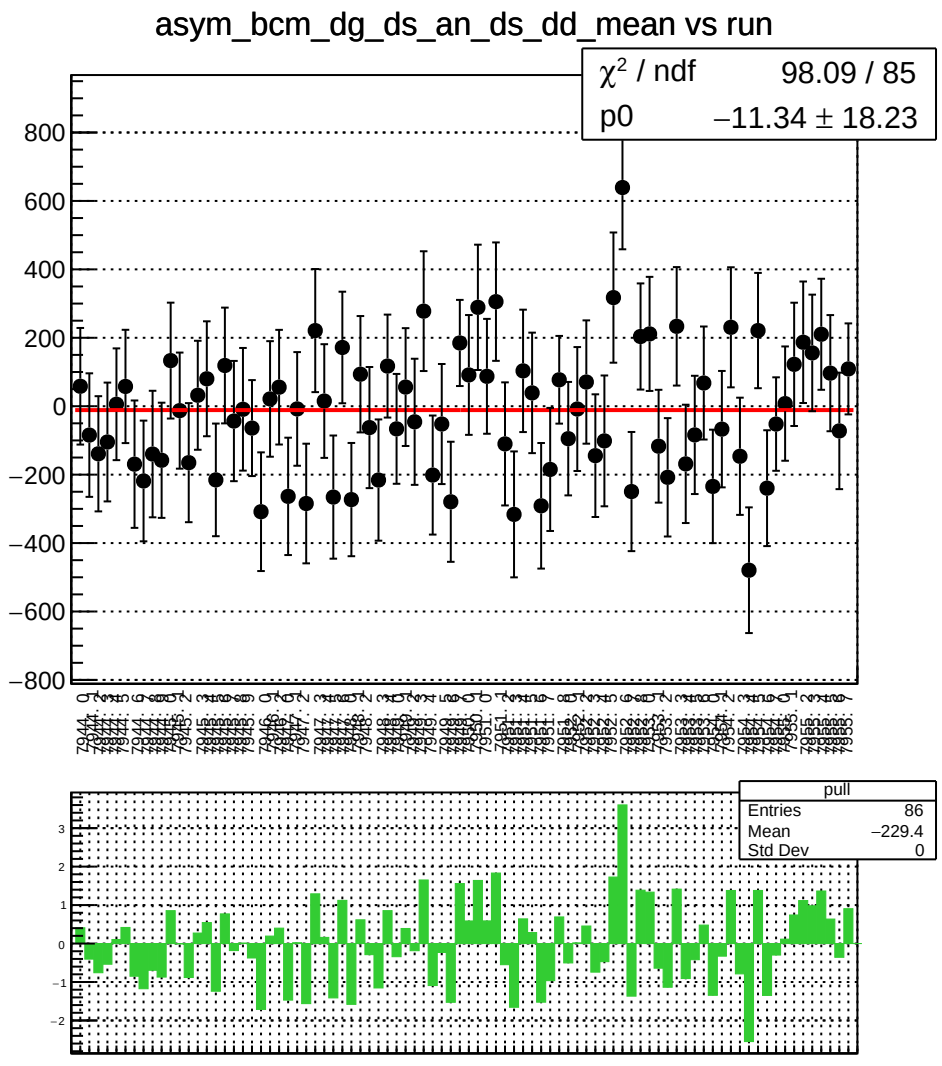

pull1D
Entries 86
Mean 0.007518
Std Dev 0.9271

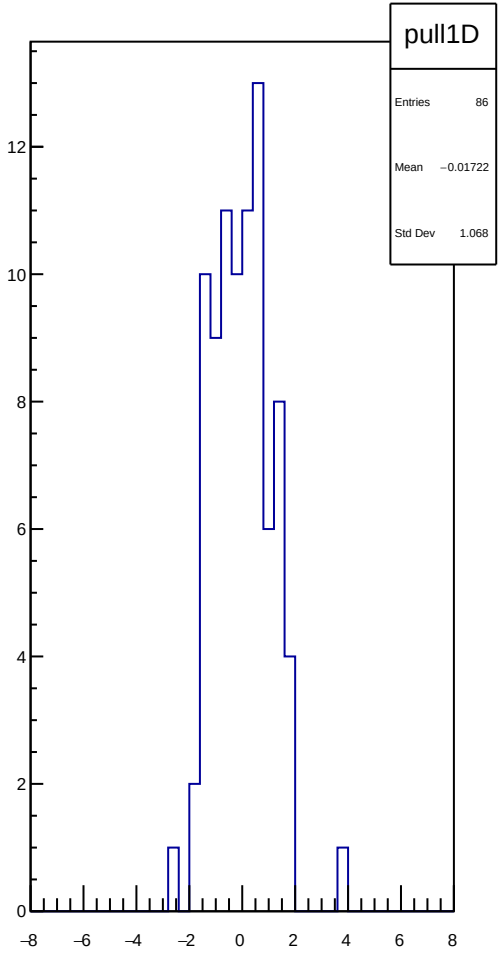

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 634.6 / 85
p0 21.81 ± 0.01714
23
22.5
22
21.5
21

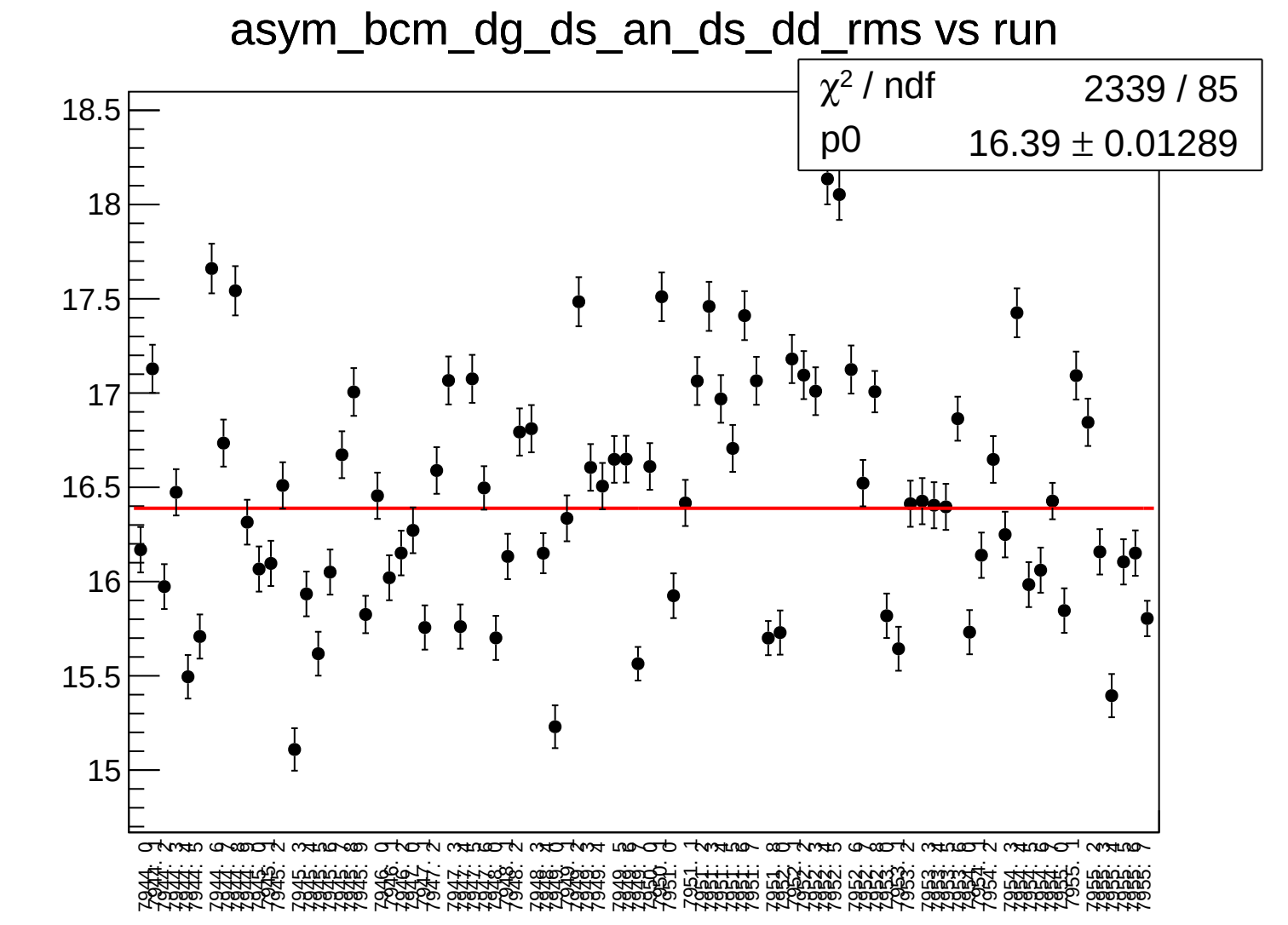

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 16.35 / 85
p0 −100.8 ± 168
pull
Entries 86
Mean 154.5
Std Dev 0

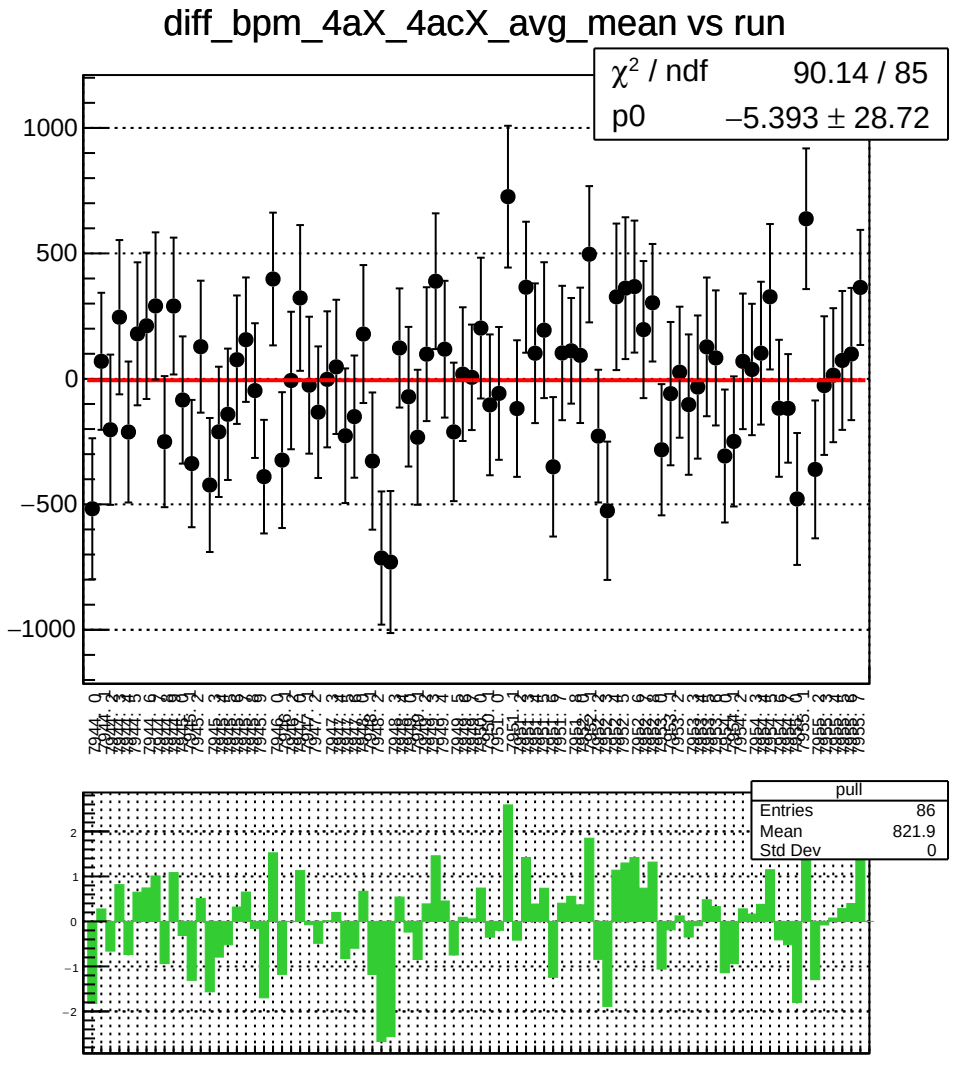

pull1D
Entries 86
Mean −0.006238
Std Dev 0.436

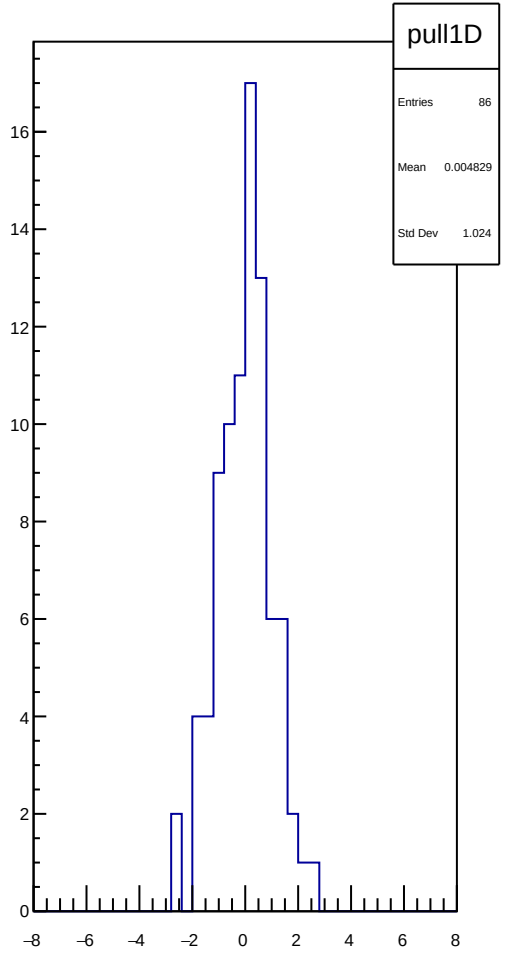

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1625 / 85
p0 151.1 ± 0.1188
165
160
155
150
145
140

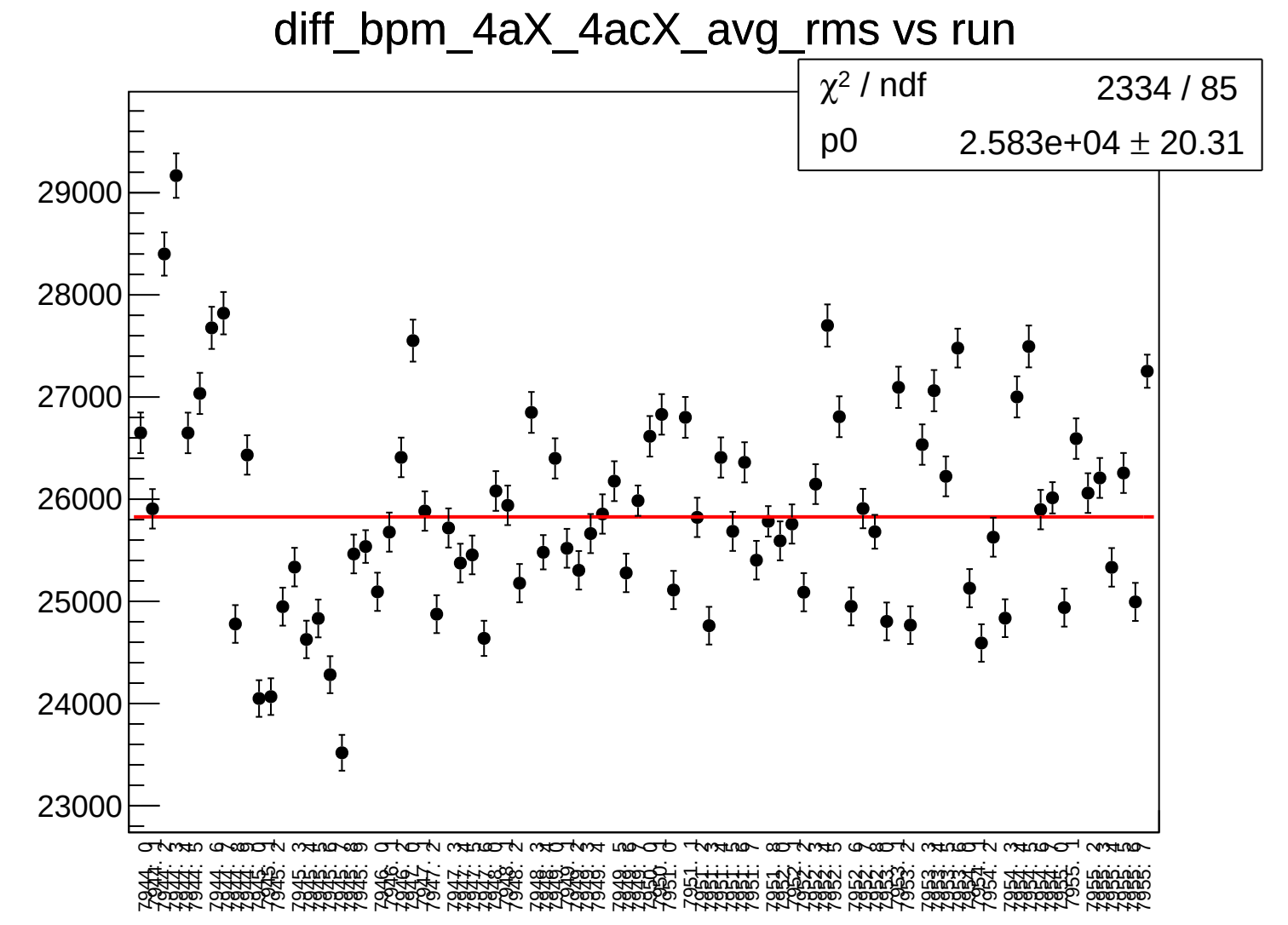

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 98.09 / 85
p0 −11.34 ± 18.23
pull
Entries 86
Mean −229.4
Std Dev 0

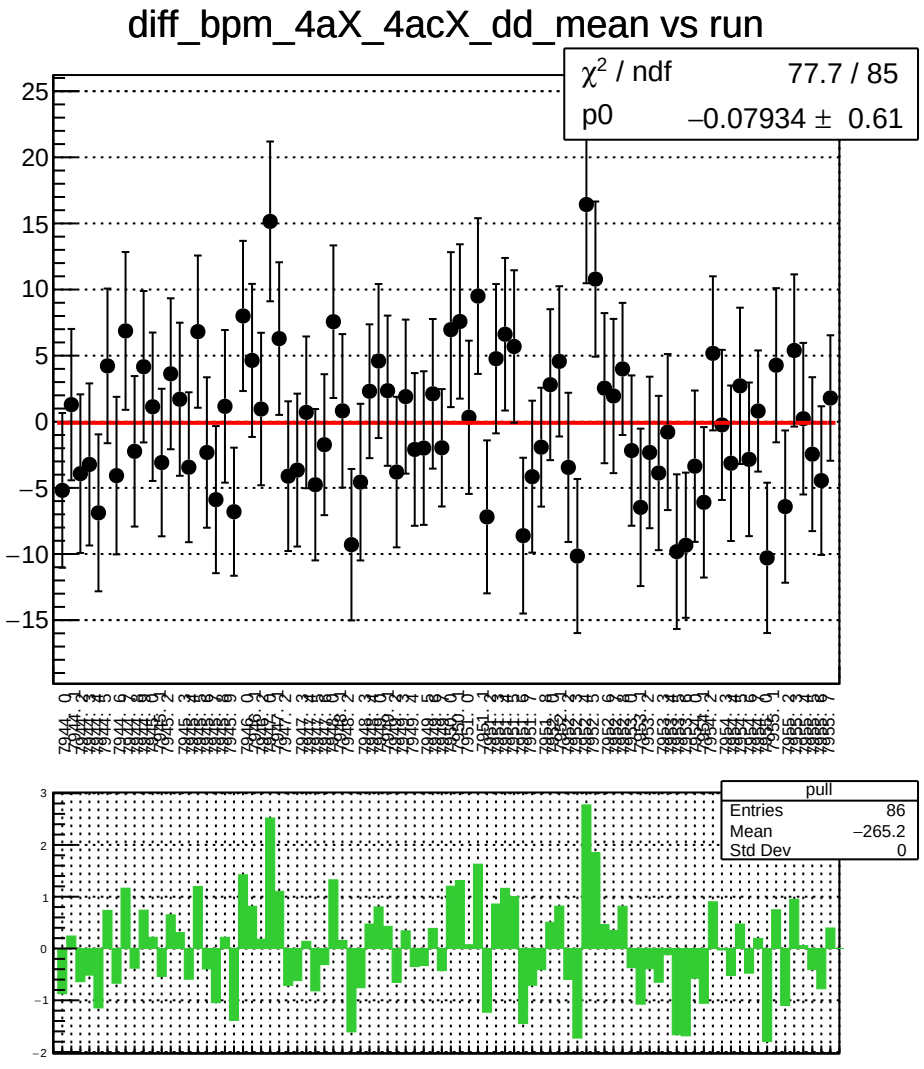

pull1D
Entries 86
Mean −0.01722
Std Dev 1.068

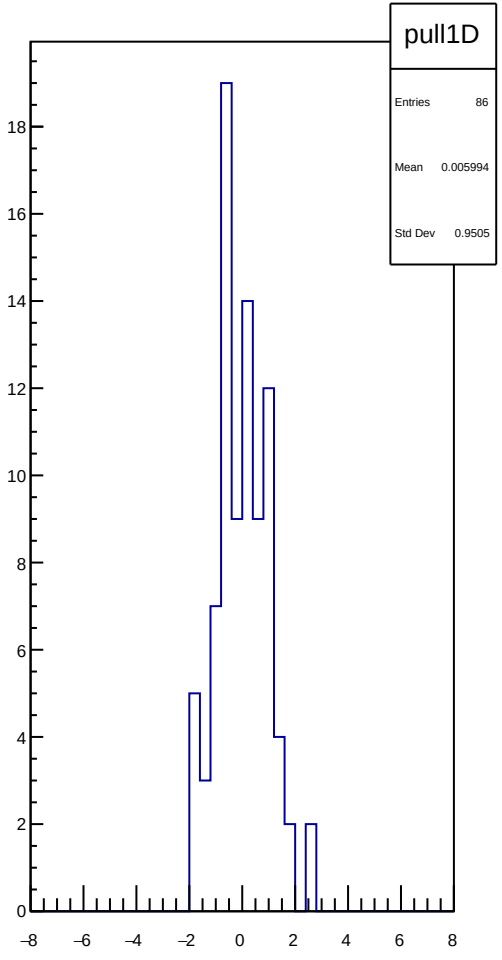

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2339 / 85
p0 16.39 ± 0.01289
18.5
18
17.5
17
16.5
16
15.5
15

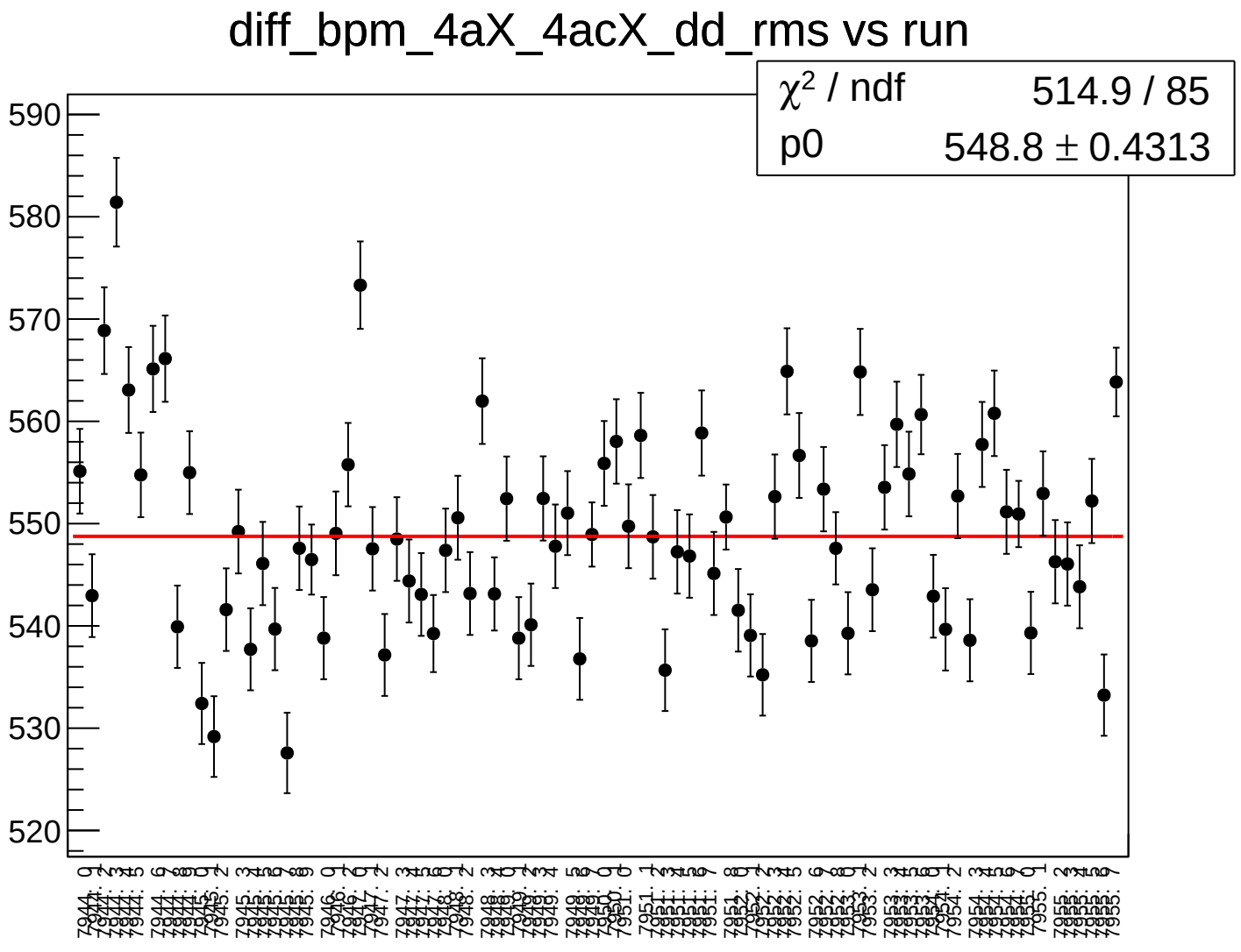

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 90.14 / 85
p0 −5.393 ± 28.72
1000
500
0
−500
−1000
pull
Entries 86
Mean 821.9
Std Dev 0
2
1
0
−1
−2

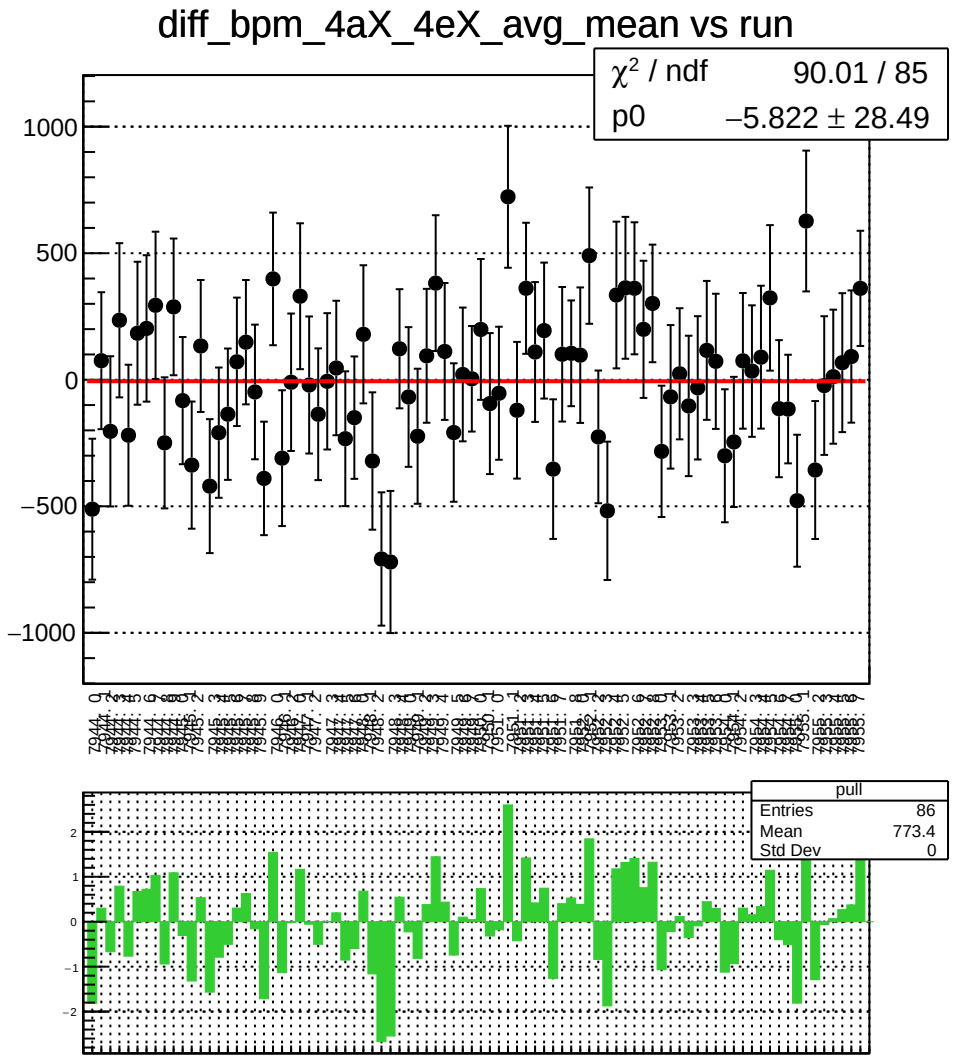

pull1D
Entries 86
Mean 0.004829
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

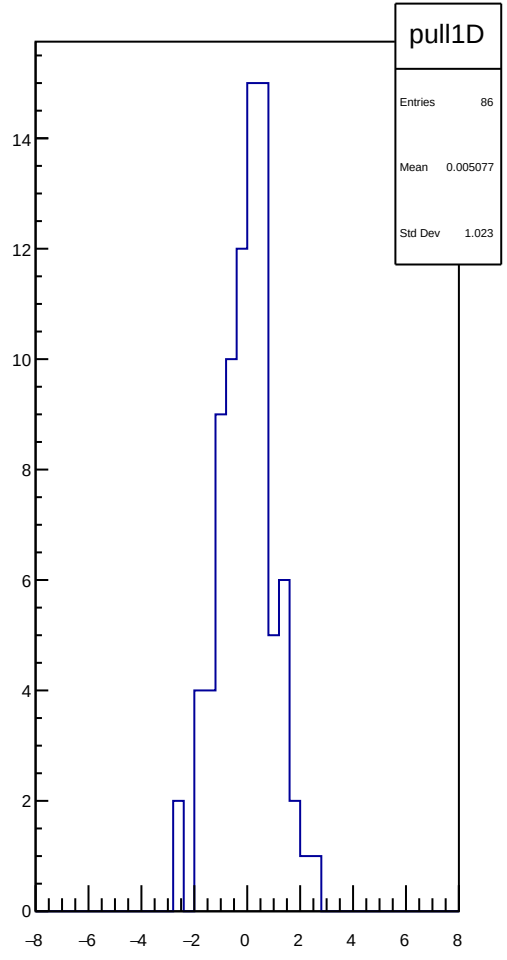

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2334 / 85
p0 2.583e+04 ± 20.31
29000
28000
27000
26000
25000
24000
23000

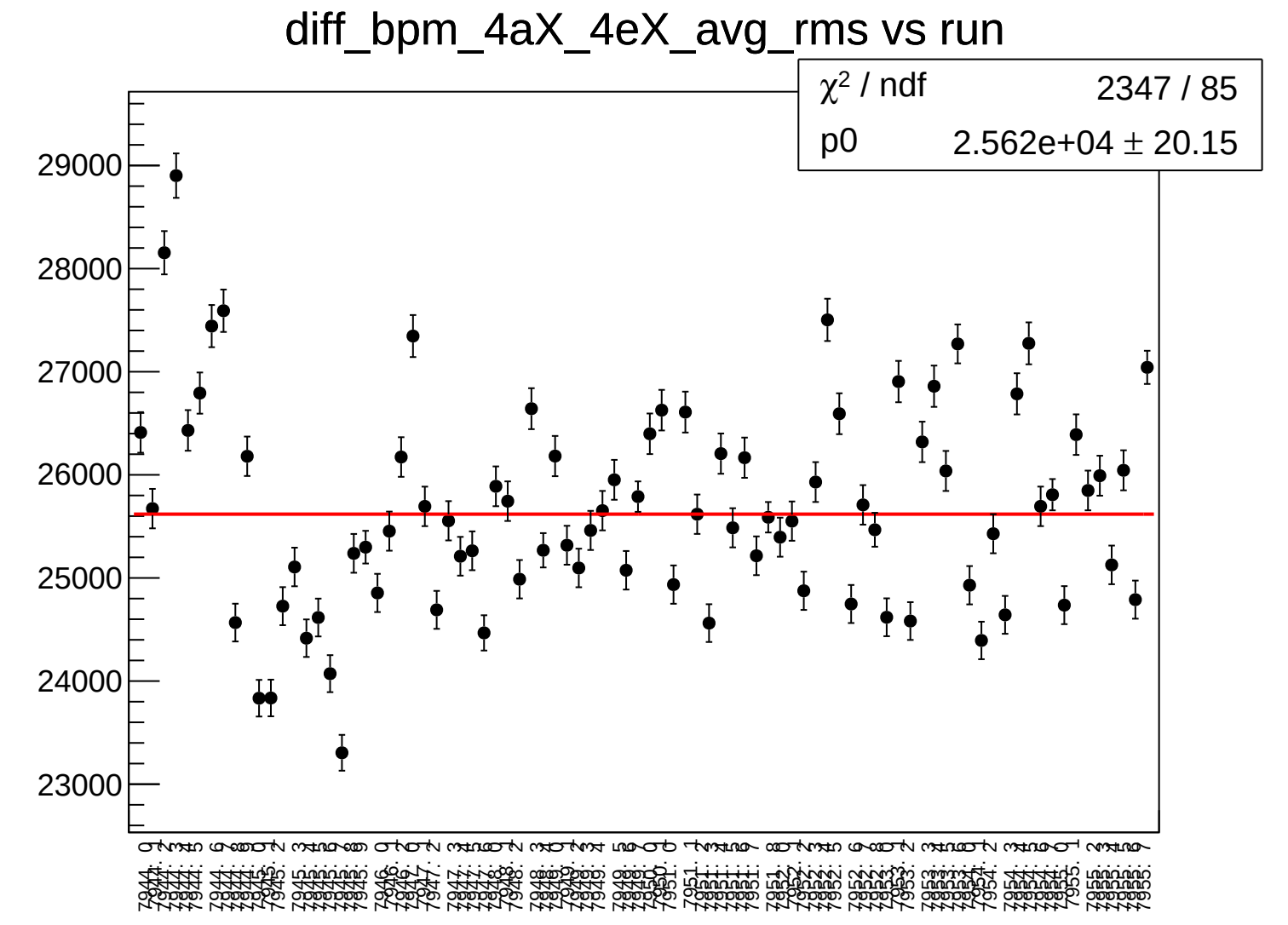

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 77.7 / 85
p0 −0.07934 ± 0.61
pull
Entries 86
Mean −265.2
Std Dev 0

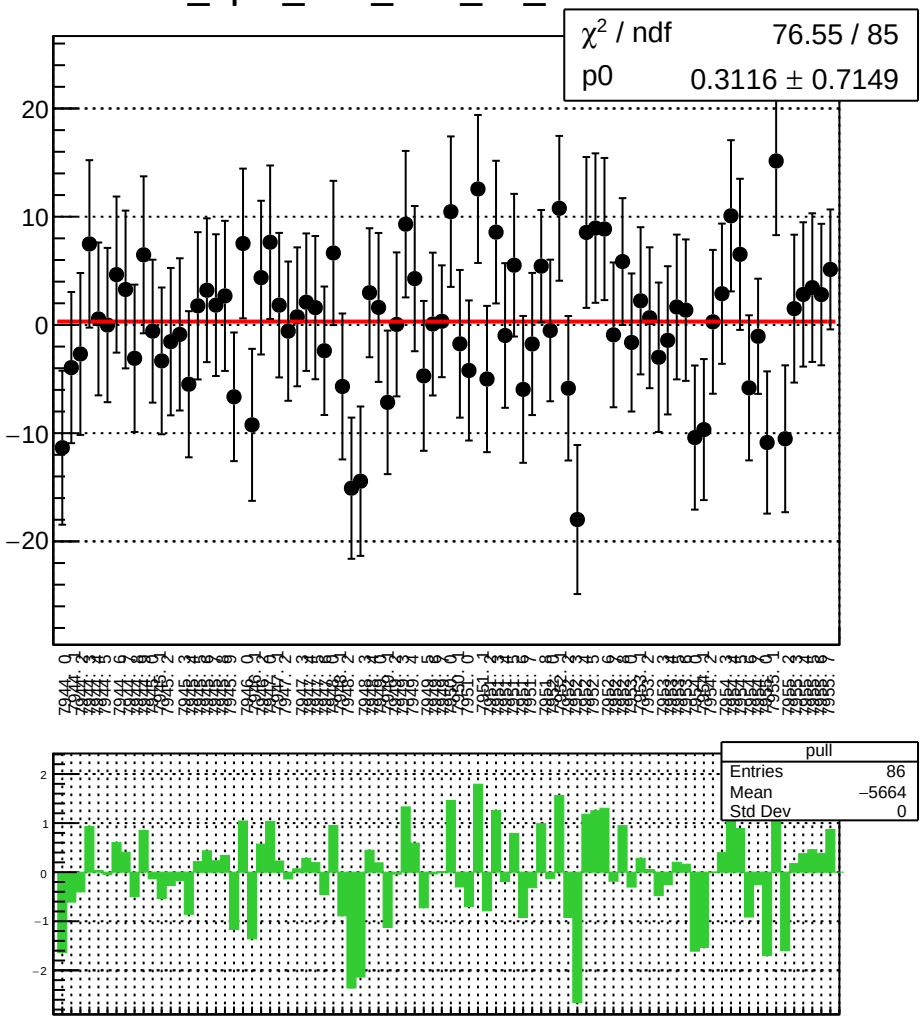

pull1D
Entries 86
Mean 0.005994
Std Dev 0.9505

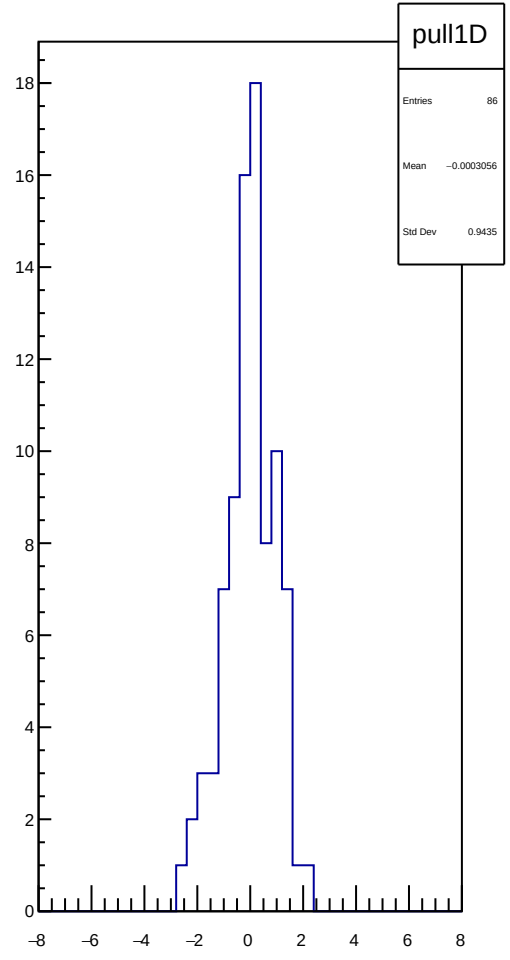

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 514.9 / 85
p0 548.8 ± 0.4313
590
580
570
560
550
540
530
520

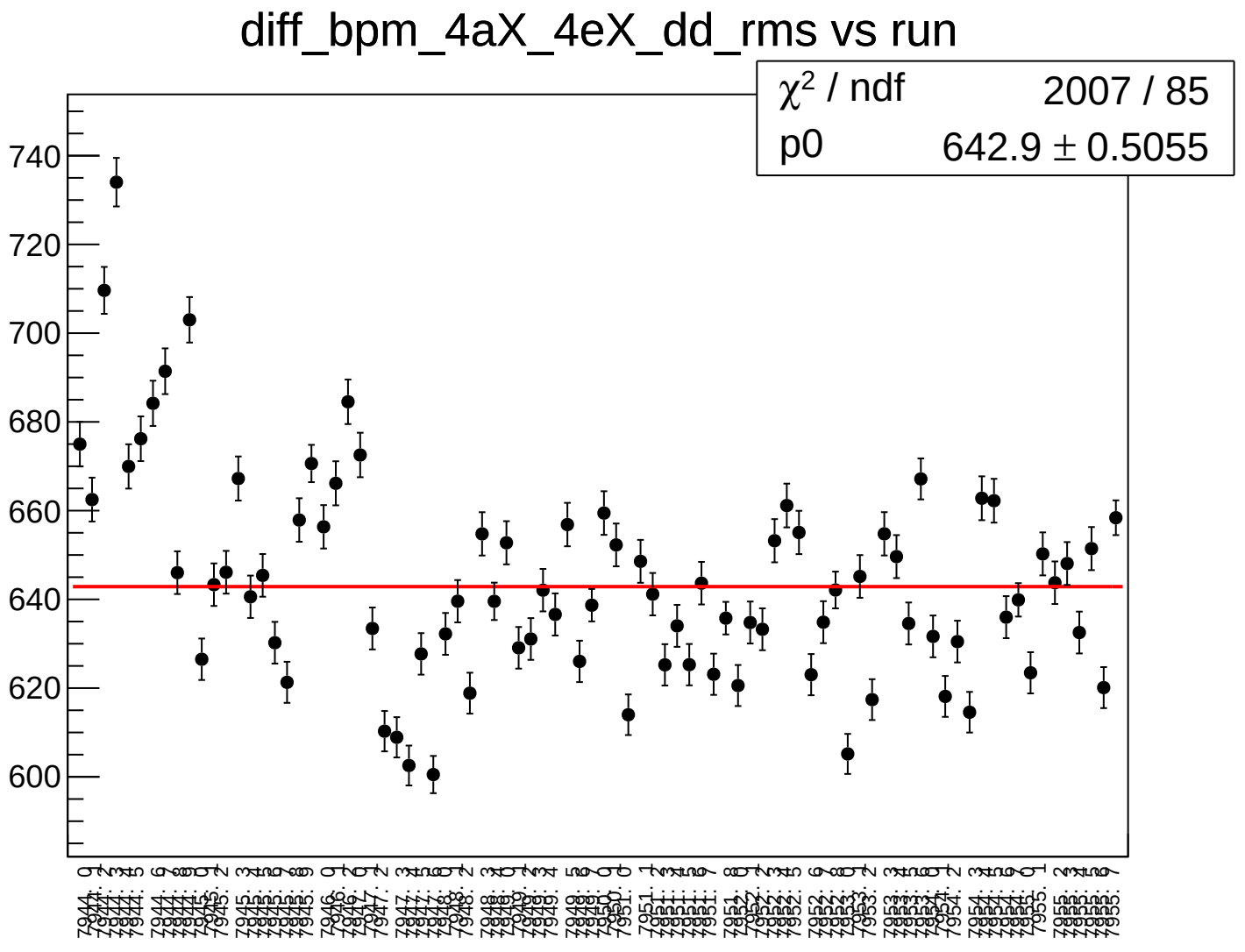

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 90.01 / 85
p0 −5.822 ± 28.49
1000
500
0
−500
−1000
pull
Entries 86
Mean 773.4
Std Dev 0
2
1
0
−1
−2

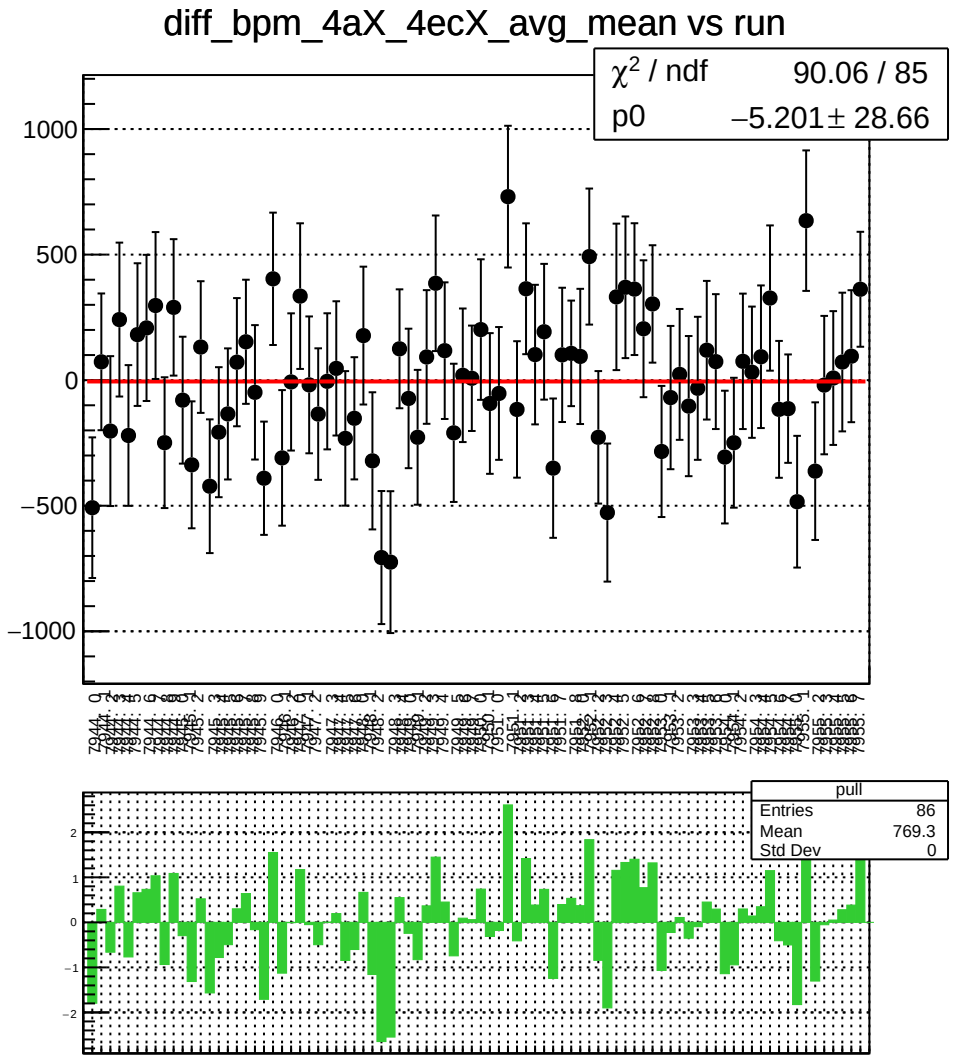

pull1D
Entries 86
Mean 0.005077
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

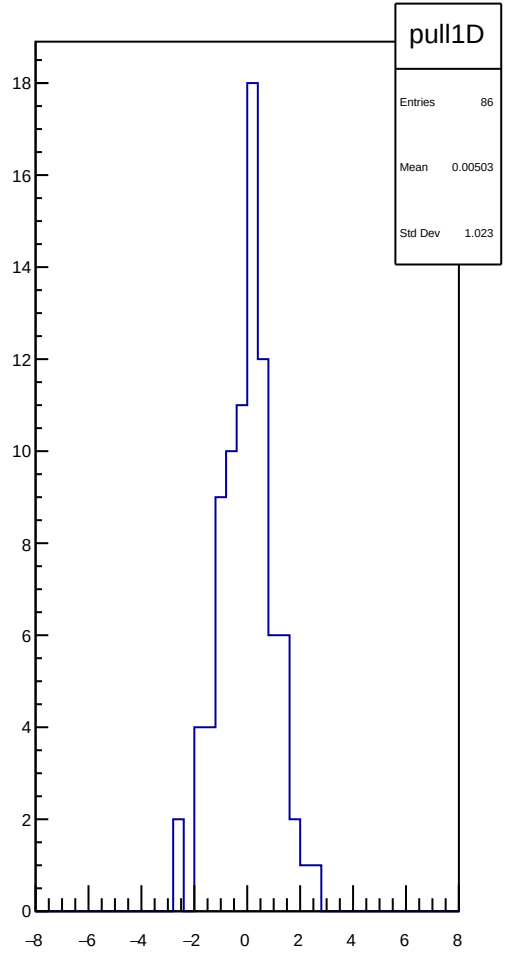

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2347 / 85
p0 2.562e+04 ± 20.15
29000
28000
27000
26000
25000
24000
23000

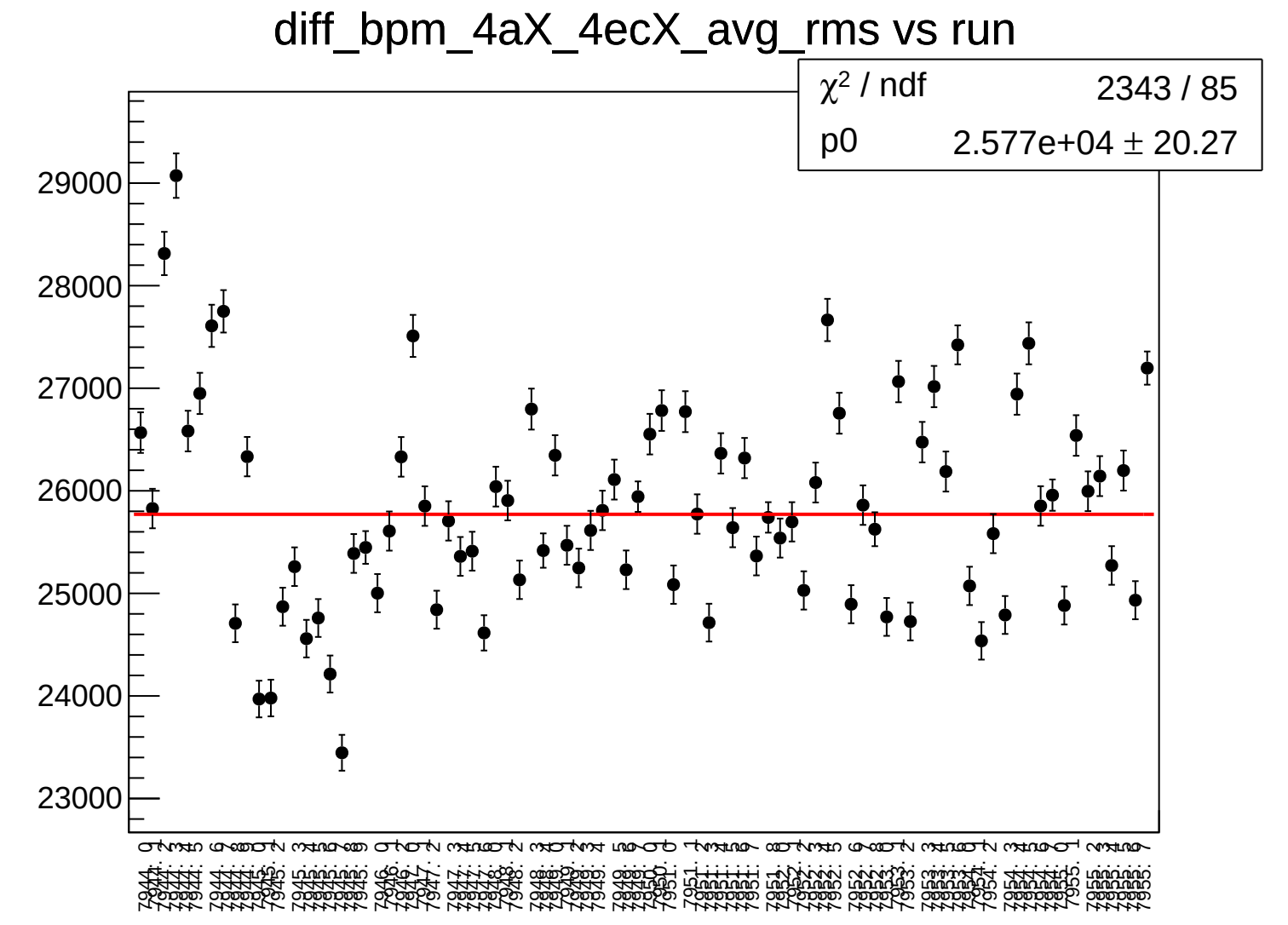

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 76.55 / 85
p0 0.3116 ± 0.7149
pull
Entries 86
Mean −5664
Std Dev 0

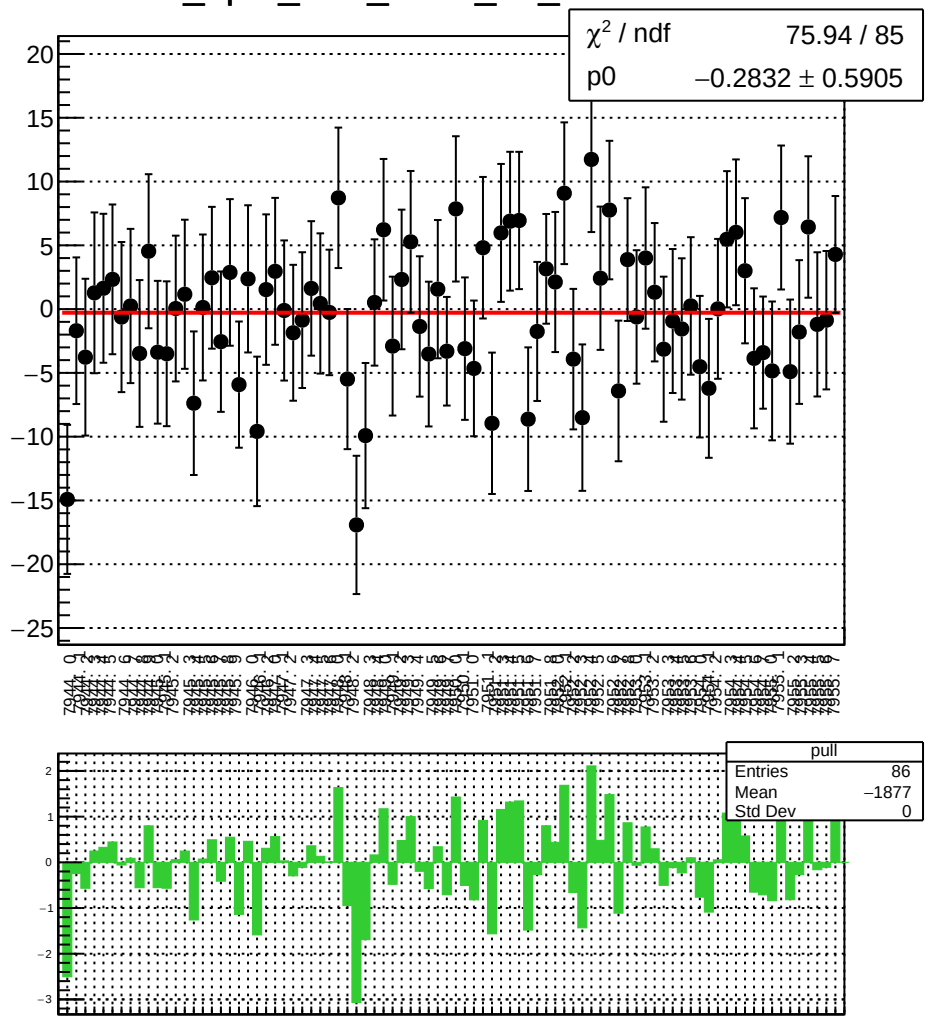

pull1D
Entries 86
Mean −0.0003056
Std Dev 0.9435

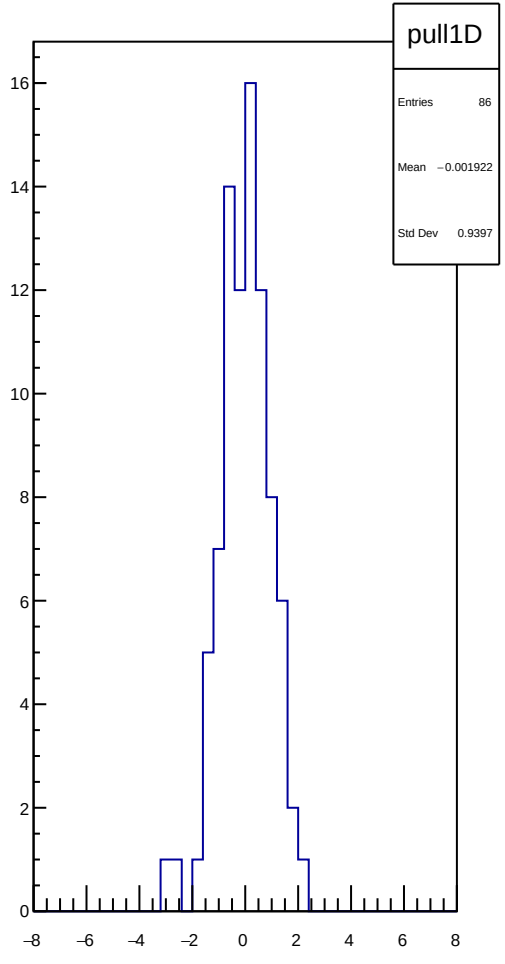

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2007 / 85
p0 642.9 ± 0.5055
740
720
700
680
660
640
620
600

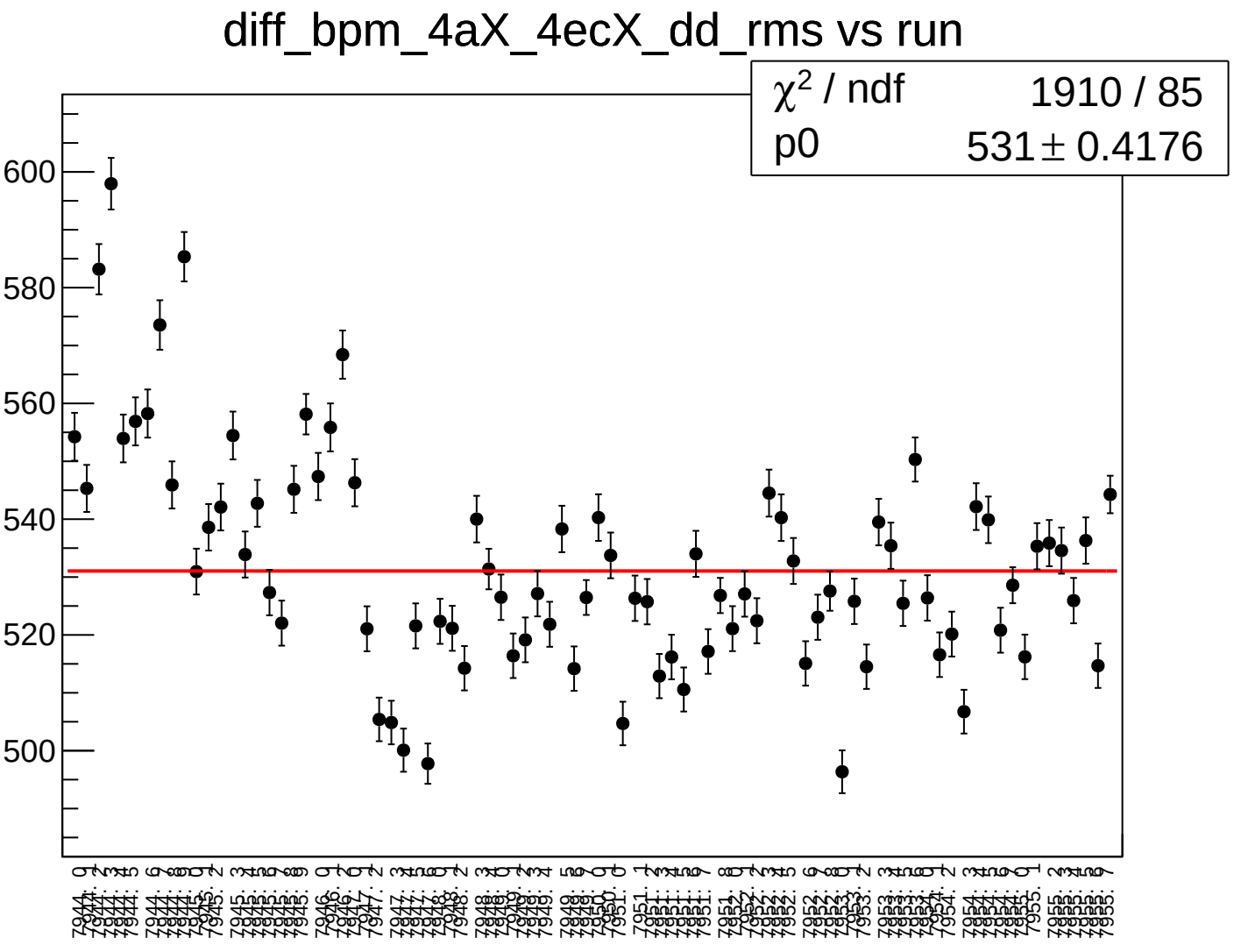

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 90.06 / 85
p0 −5.201 ± 28.66
1000
500
0
−500
−1000
pull
Entries 86
Mean 769.3
Std Dev 0
2
1
0
−1
−2

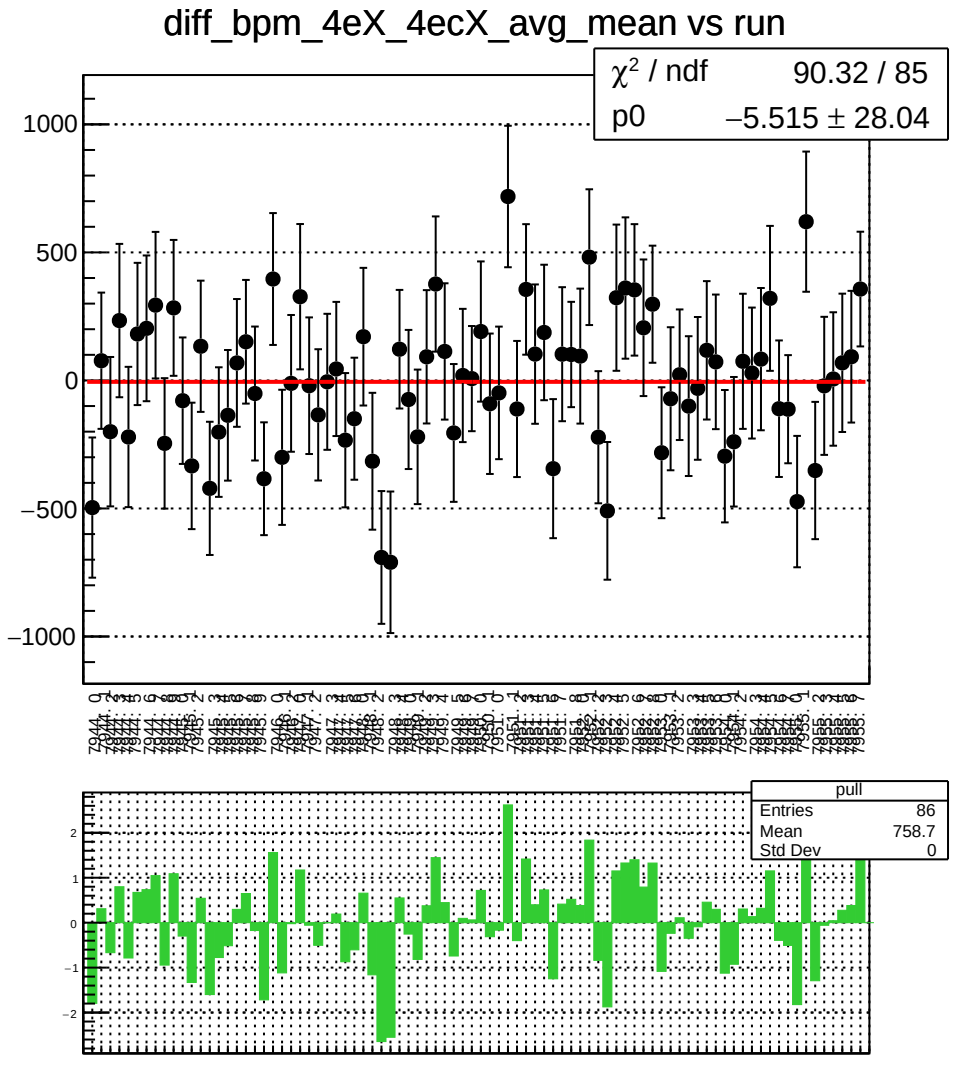

pull1D
Entries 86
Mean 0.00503
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

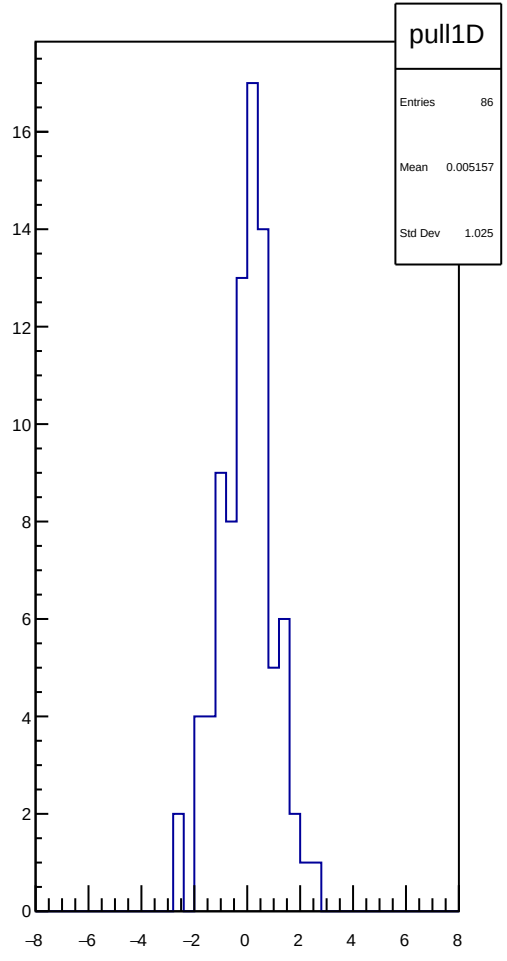

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2343 / 85
p0 2.577e+04 ± 20.27
29000
28000
27000
26000
25000
24000
23000

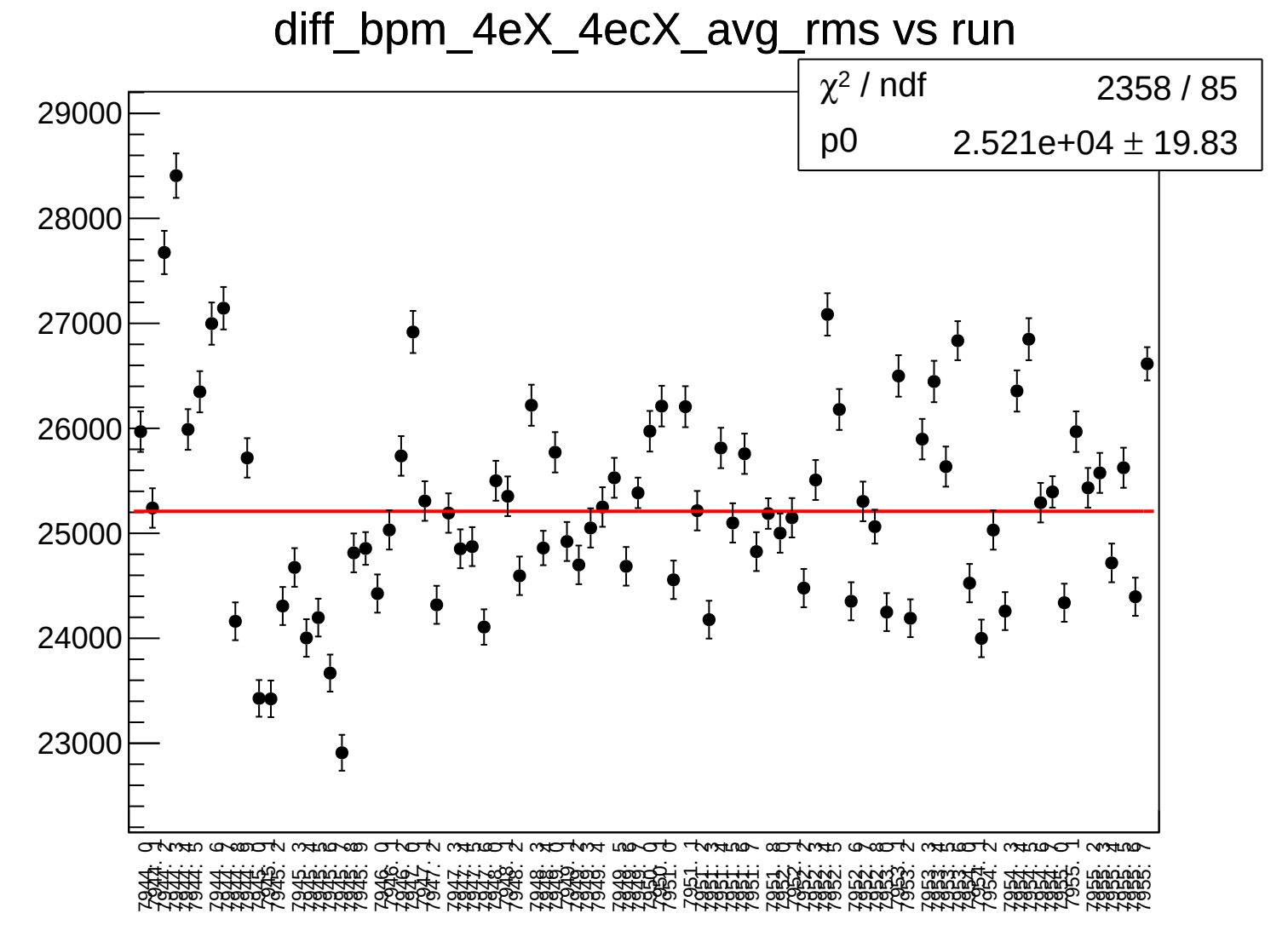

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 75.94 / 85
p0 −0.2832 ± 0.5905
pull
Entries 86
Mean −1877
Std Dev 0

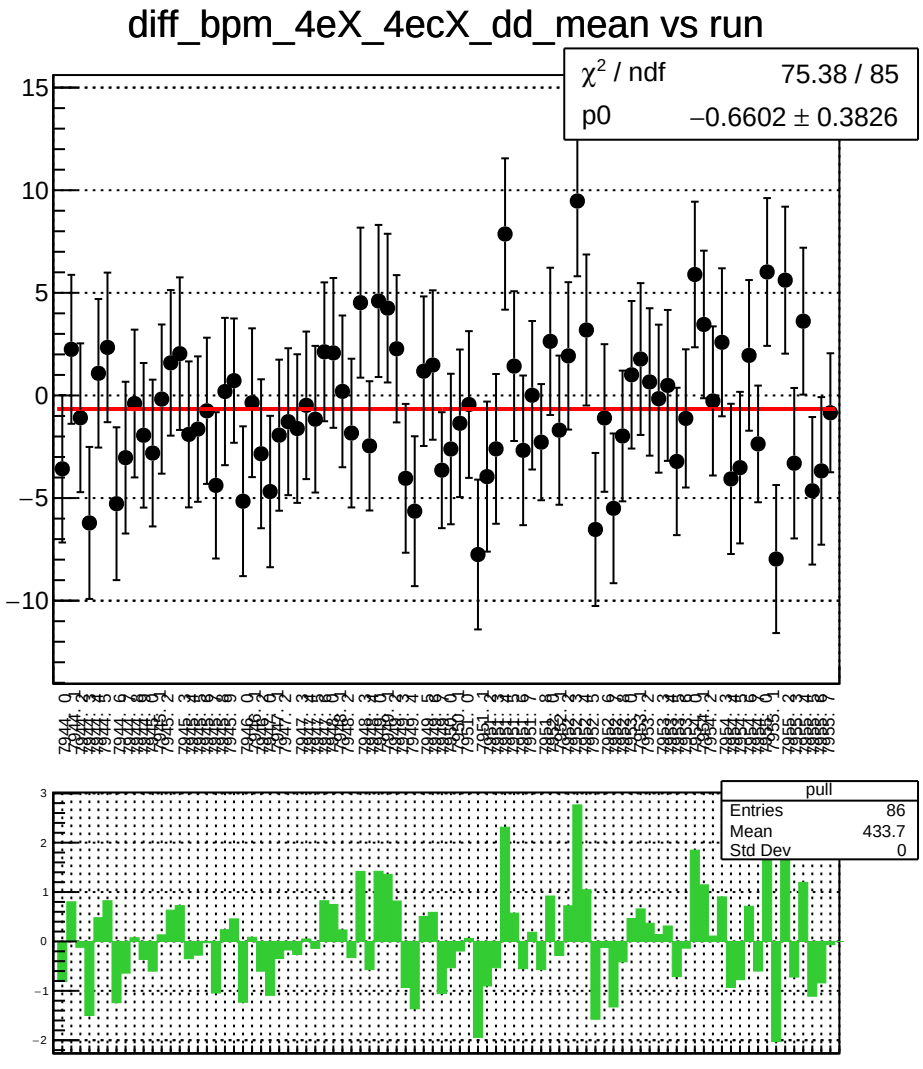

pull1D
Entries 86
Mean −0.001922
Std Dev 0.9397

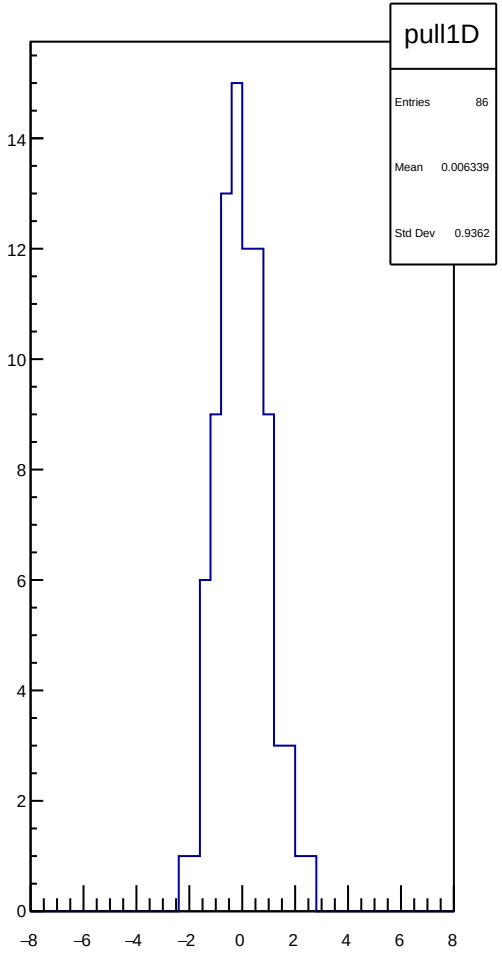

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1910 / 85
p0 531 ± 0.4176
600
580
560
540
520
500

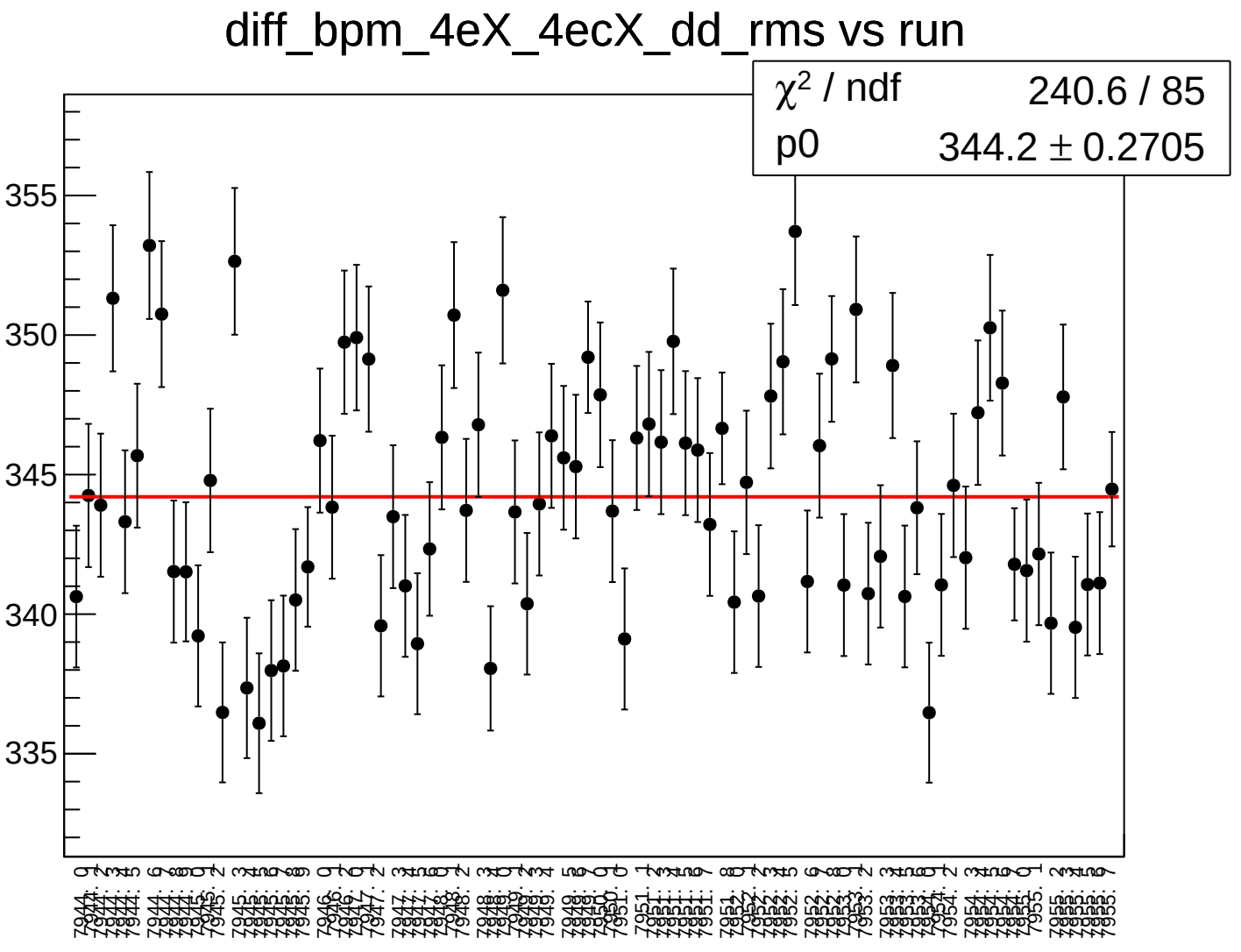

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 90.32 / 85
p0 −5.515 ± 28.04
1000
500
0
−500
−1000
pull
Entries 86
Mean 758.7
Std Dev 0
2
1
0
−1
−2

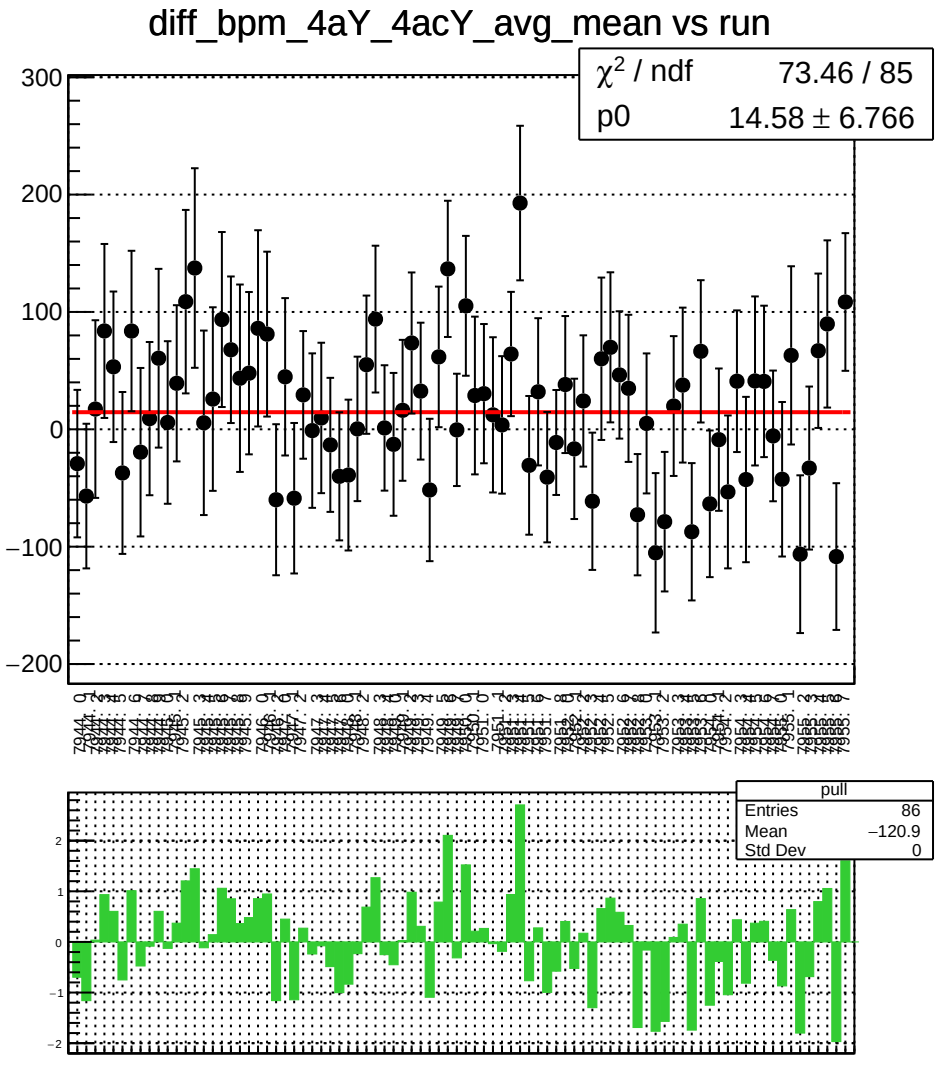

pull1D
Entries 86
Mean 0.005157
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

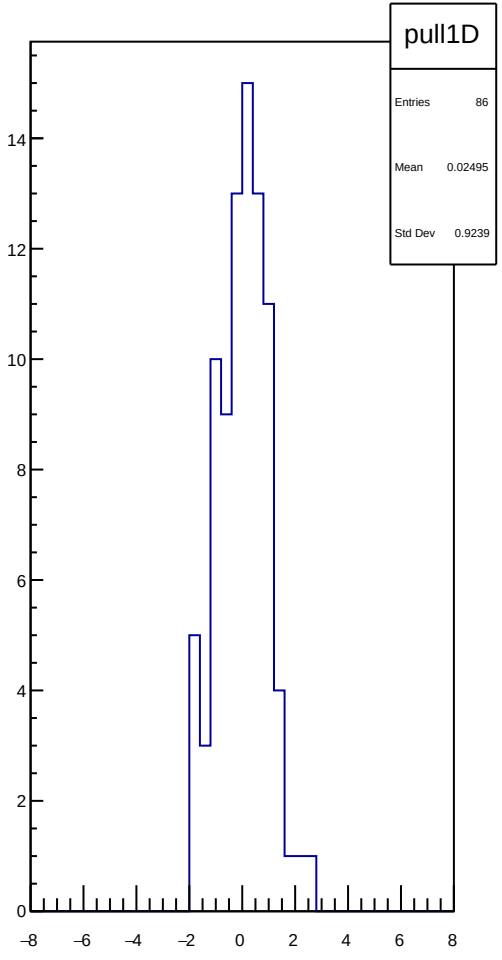

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2358 / 85
p0 2.521e+04 ± 19.83
29000
28000
27000
26000
25000
24000
23000

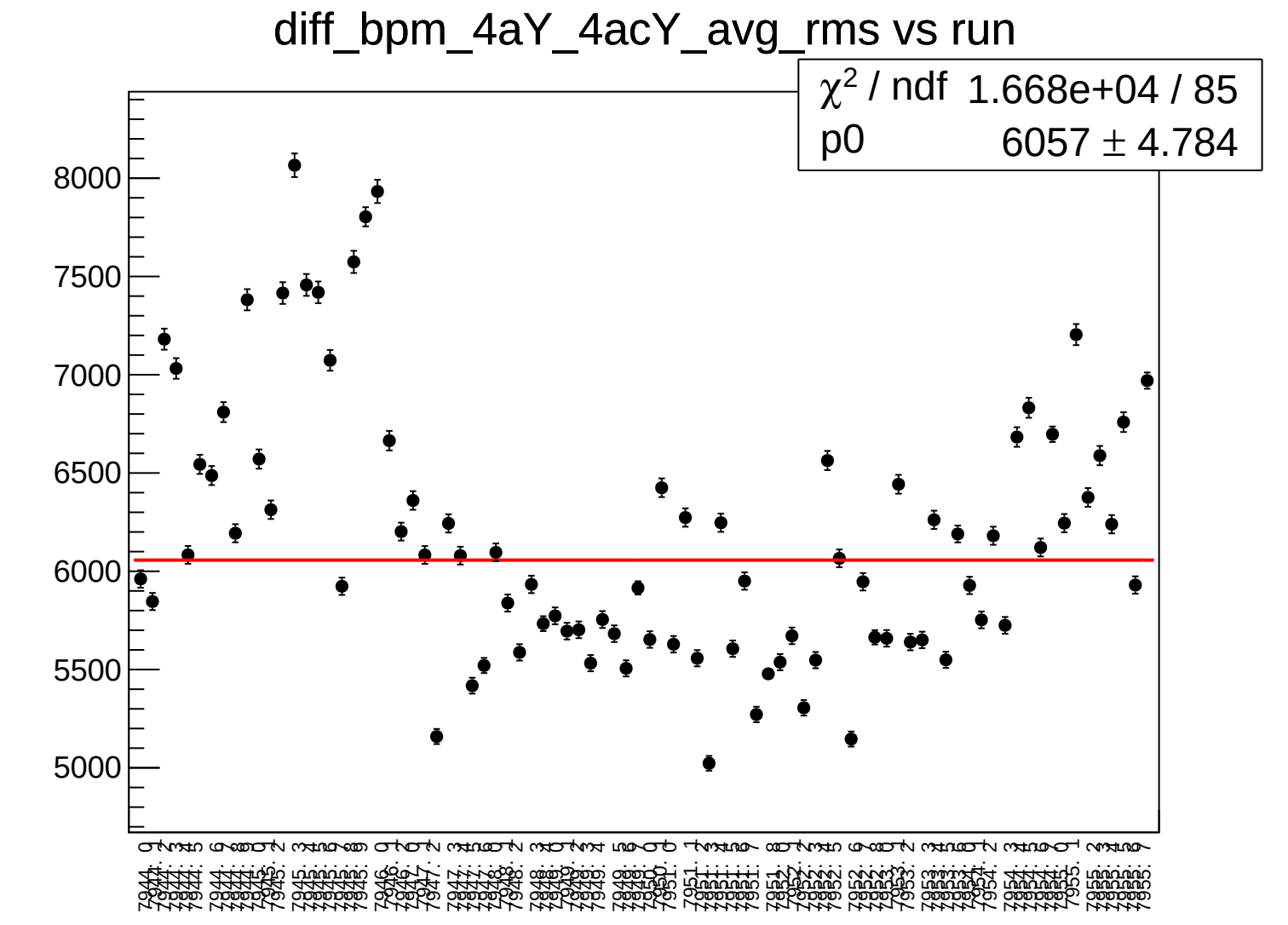

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 75.38 / 85
p0 −0.6602 ± 0.3826
pull
Entries 86
Mean 433.7
Std Dev 0

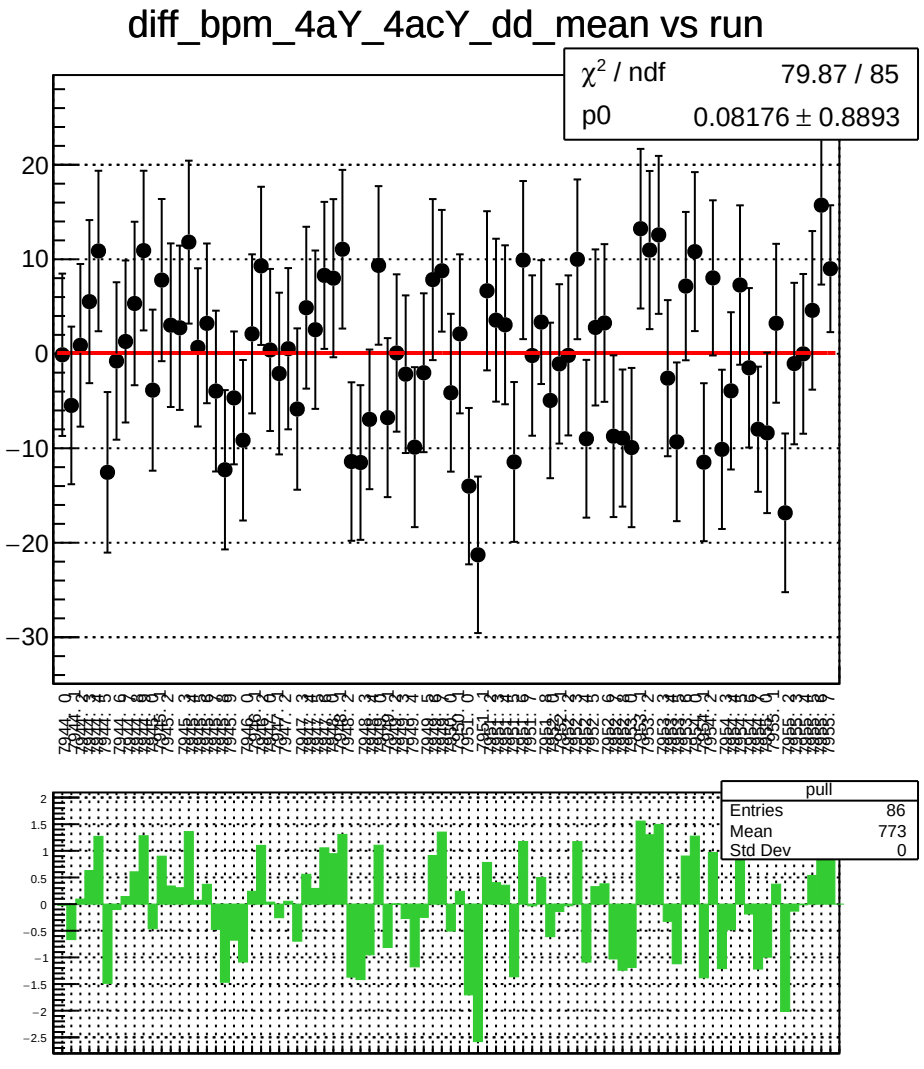

pull1D
Entries 86
Mean 0.006339
Std Dev 0.9362

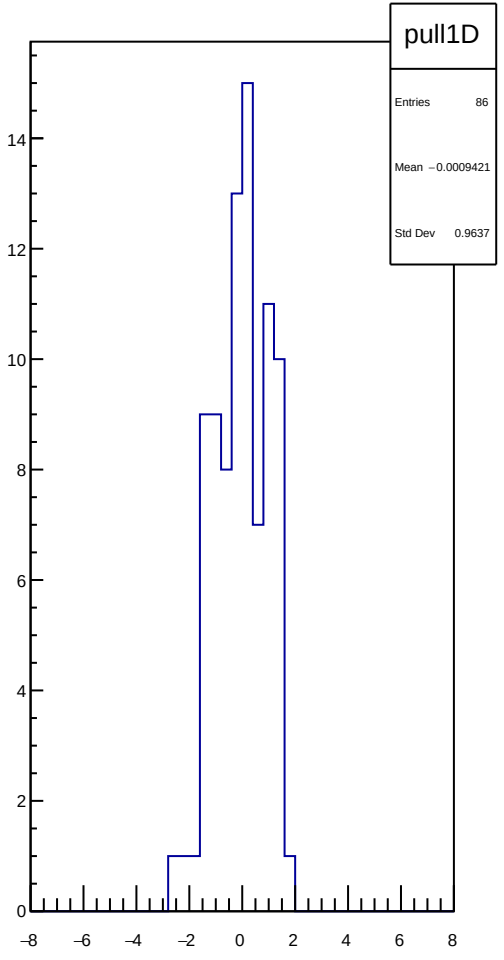

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 240.6 / 85
p0 344.2 ± 0.2705
355
350
345
340
335

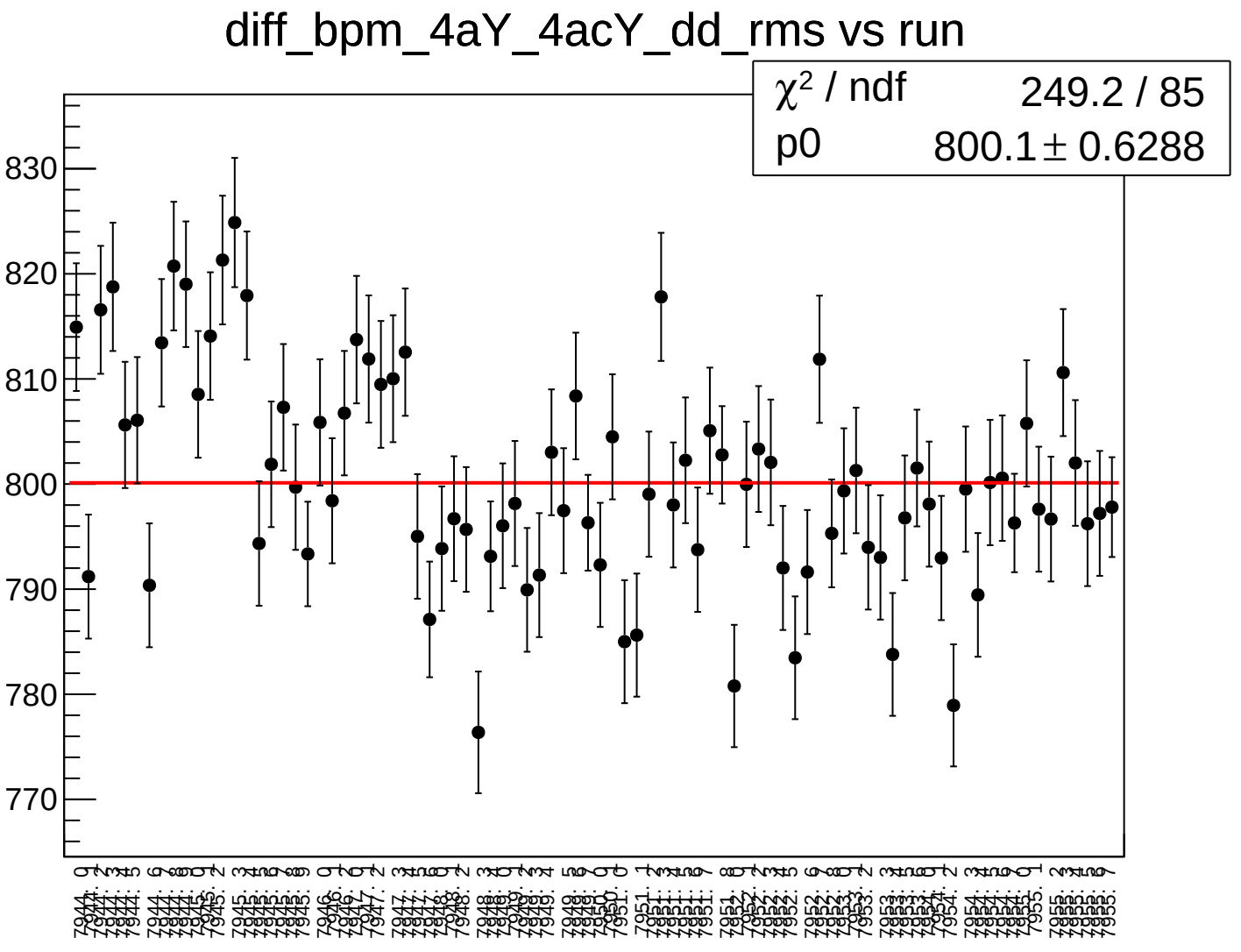

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 73.46 / 85
p0 14.58 ± 6.766
pull
Entries 86
Mean −120.9
Std Dev 0

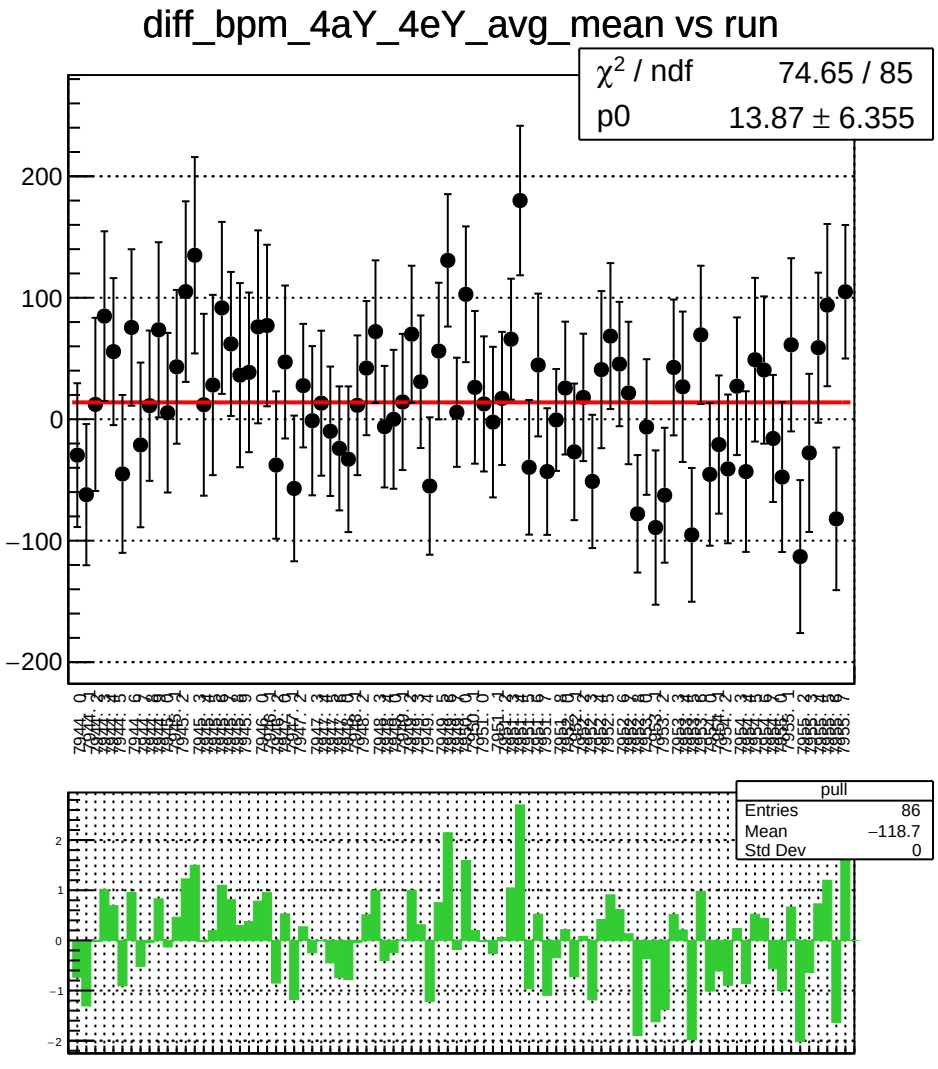

pull1D
Entries 86
Mean 0.02495
Std Dev 0.9239

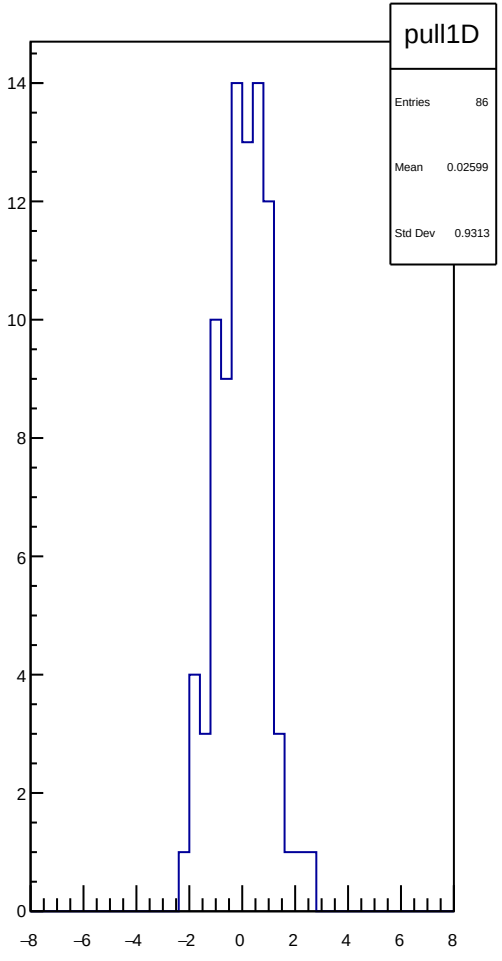

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1.668e+04 / 85
p0 6057 ± 4.784
8000
7500
7000
6500
6000
5500
5000

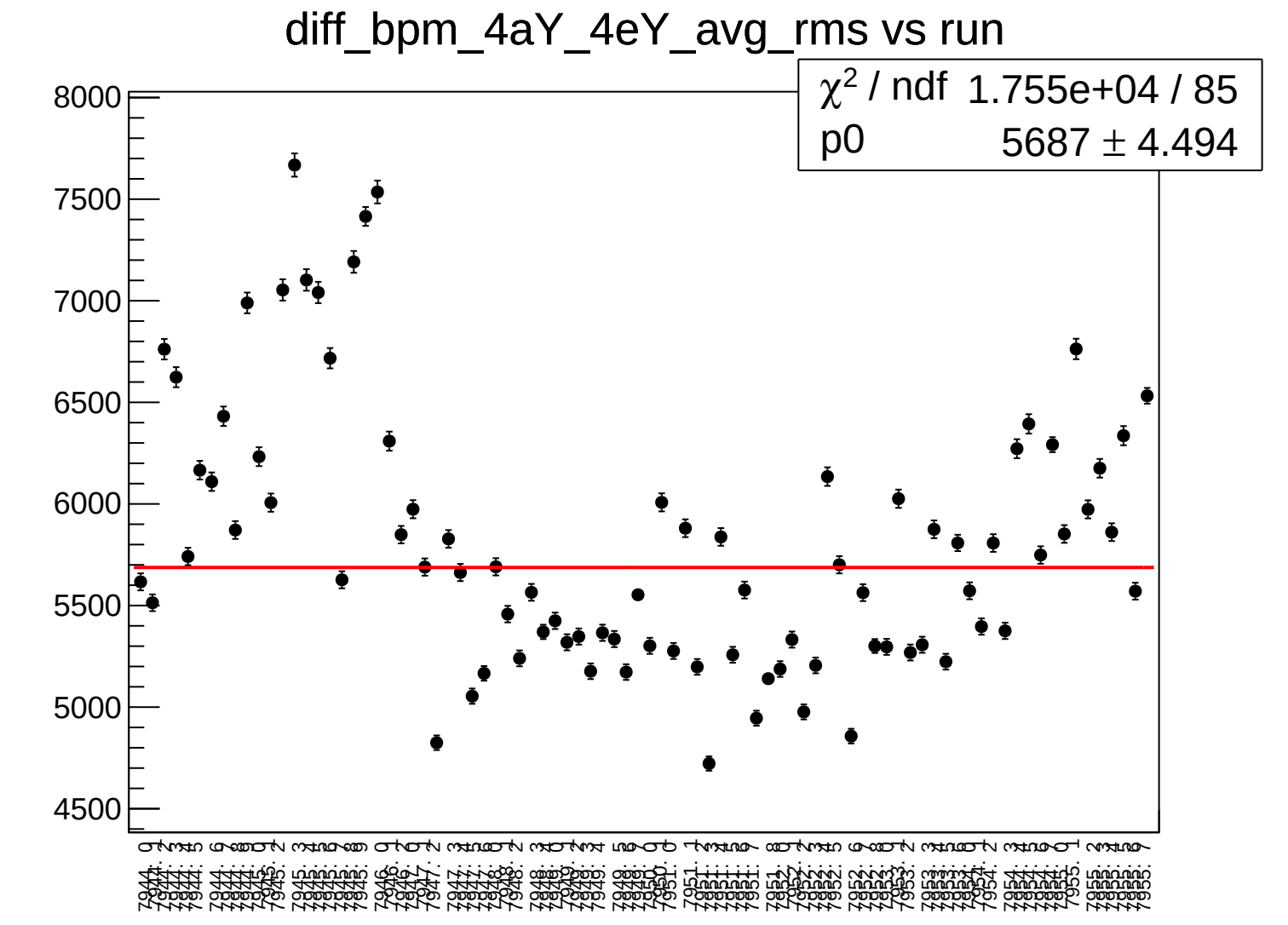

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 79.87 / 85
p0 0.08176 ± 0.8893
pull
Entries 86
Mean 773
Std Dev 0

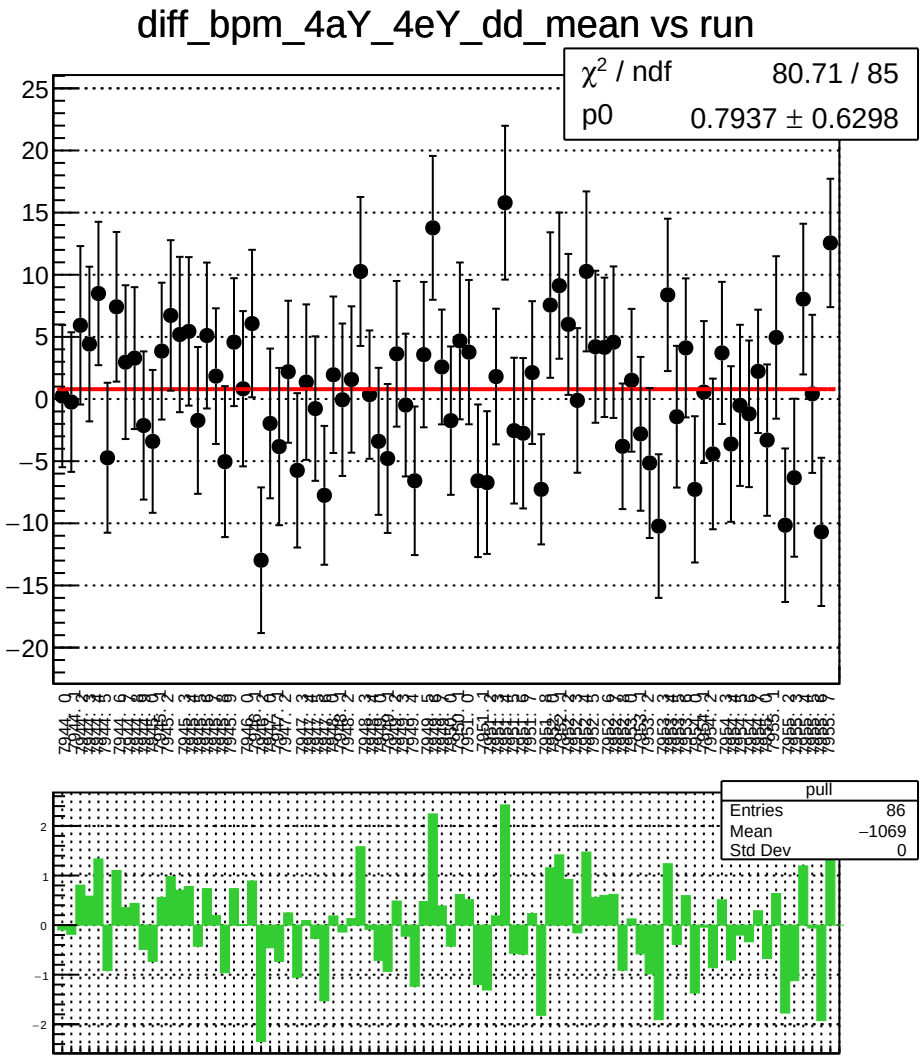

pull1D
Entries 86
Mean −0.0009421
Std Dev 0.9637

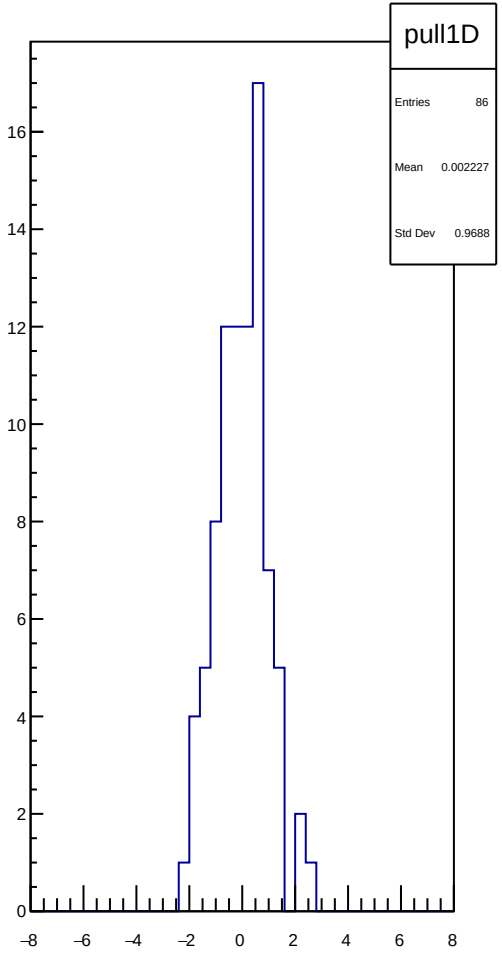

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 249.2 / 85
p0 800.1 ± 0.6288
830
820
810
800
790
780
770

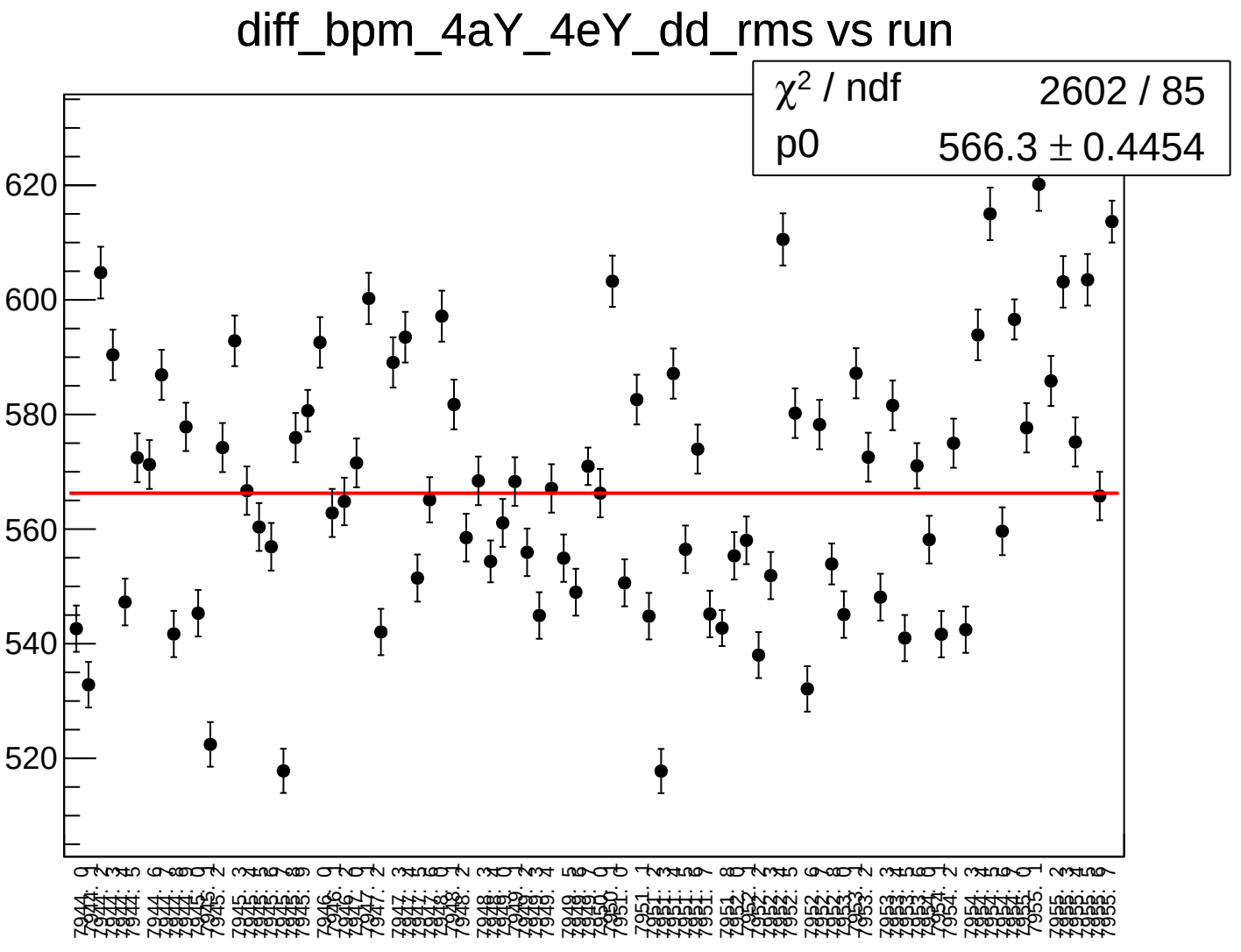

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 74.65 / 85
p0 13.87 ± 6.355
200
100
0
−100
−200
pull
Entries 86
Mean −118.7
Std Dev 0
2
1
0
−1
−2

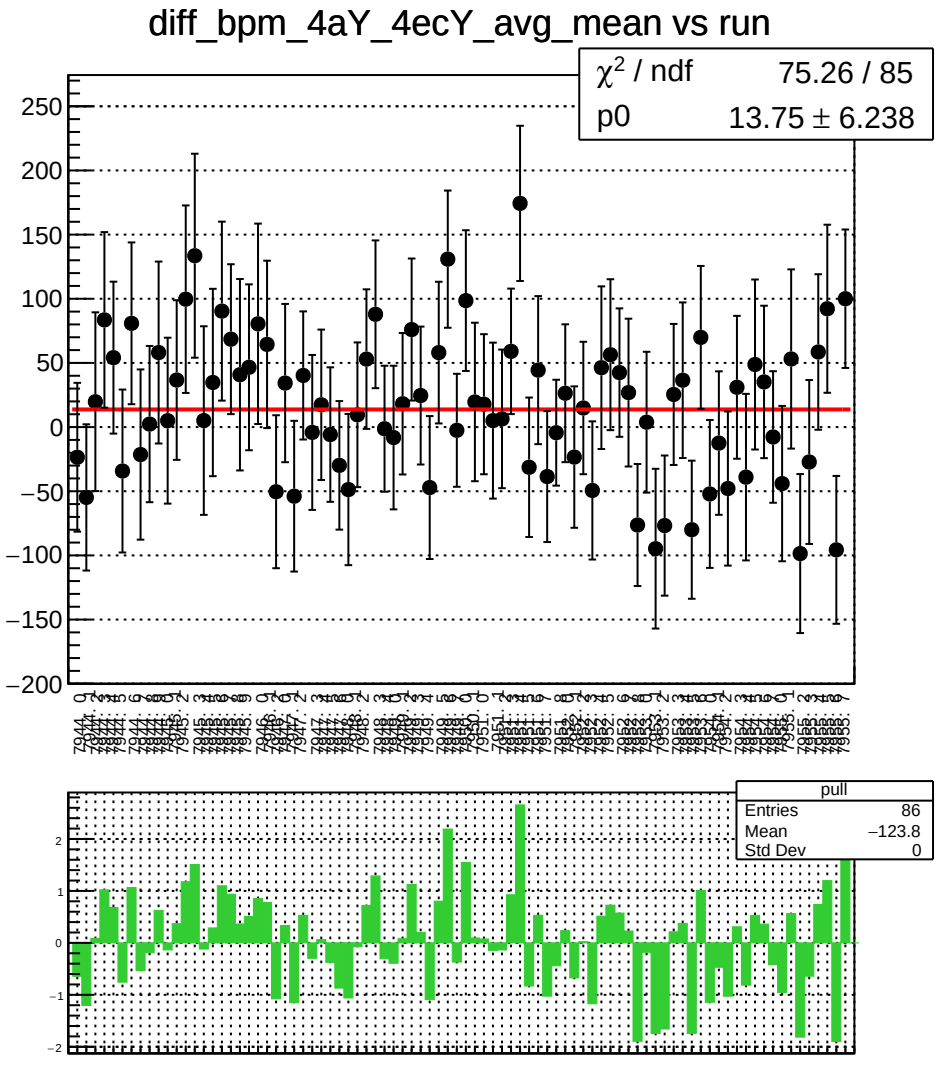

pull1D
Entries 86
Mean 0.02599
Std Dev 0.9313
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

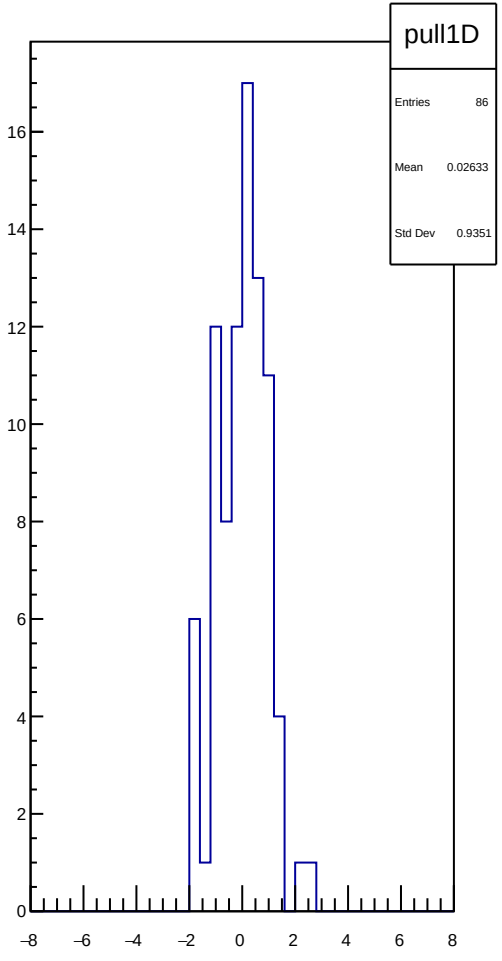

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1.755e+04 / 85
p0 5687 ± 4.494
8000
7500
7000
6500
6000
5500
5000
4500

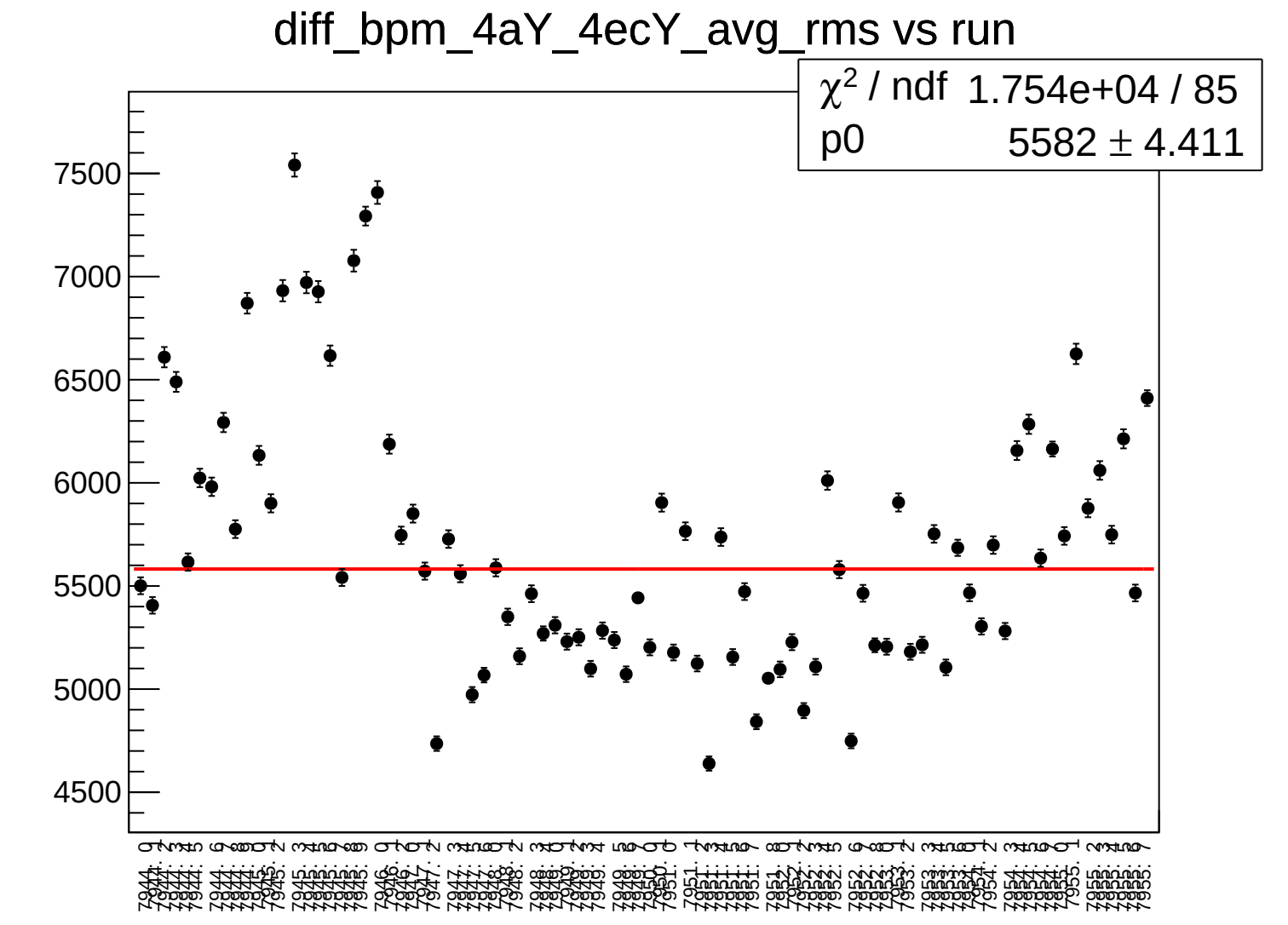

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 80.71 / 85
p0 0.7937 ± 0.6298
pull
Entries 86
Mean −1069
Std Dev 0

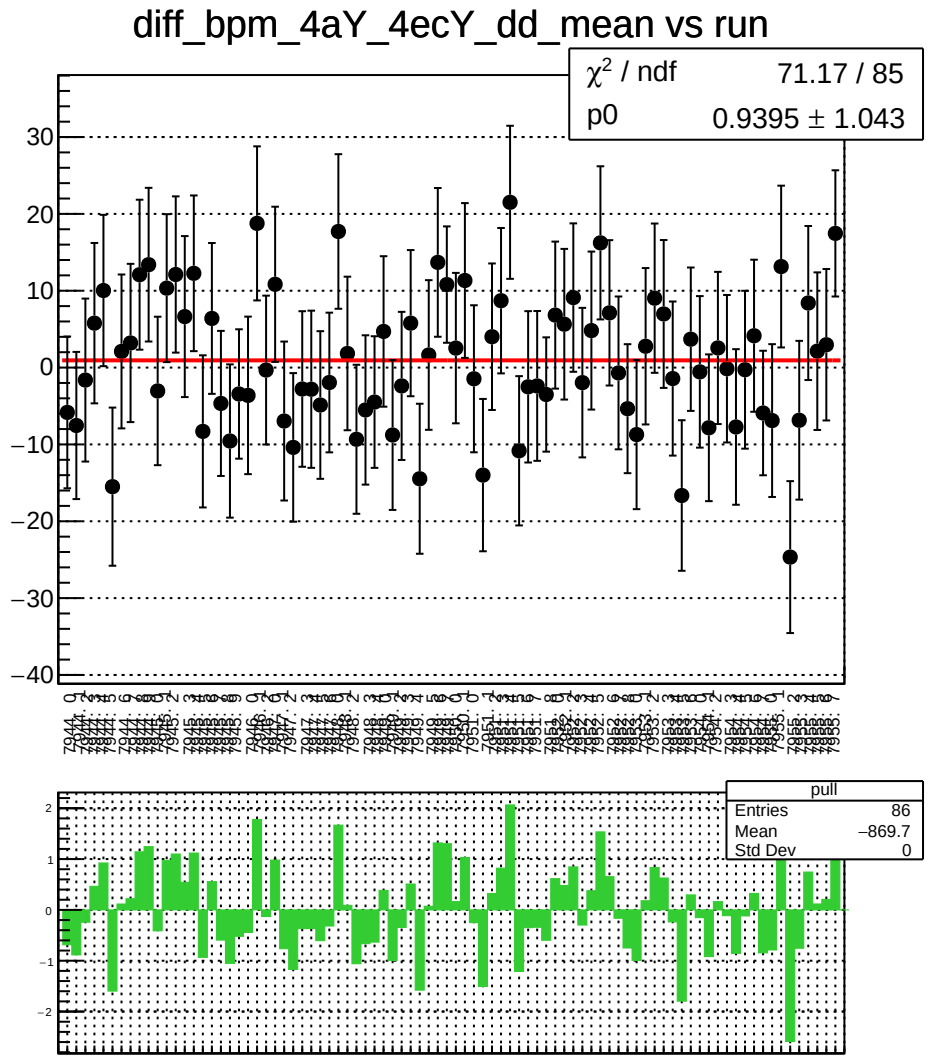

pull1D
Entries 86
Mean 0.002227
Std Dev 0.9688

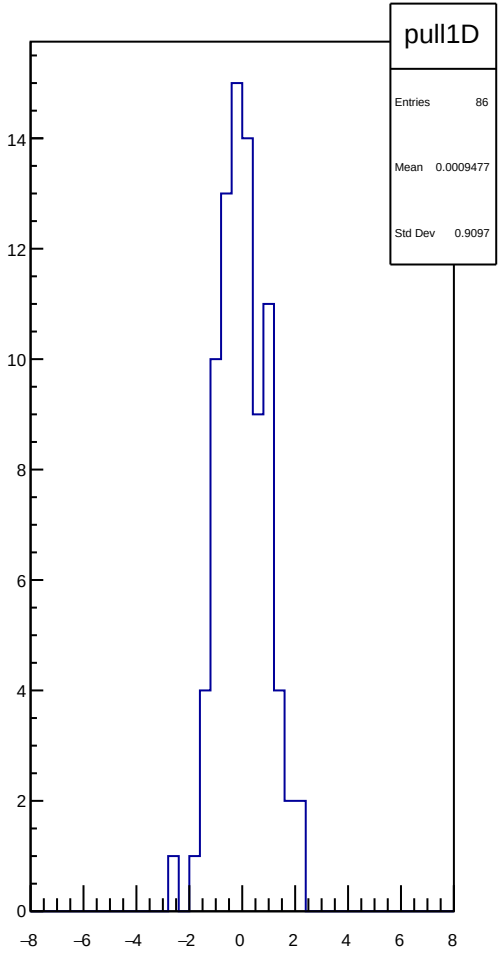

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 2602 / 85
p0 566.3 ± 0.4454
620
600
580
560
540
520

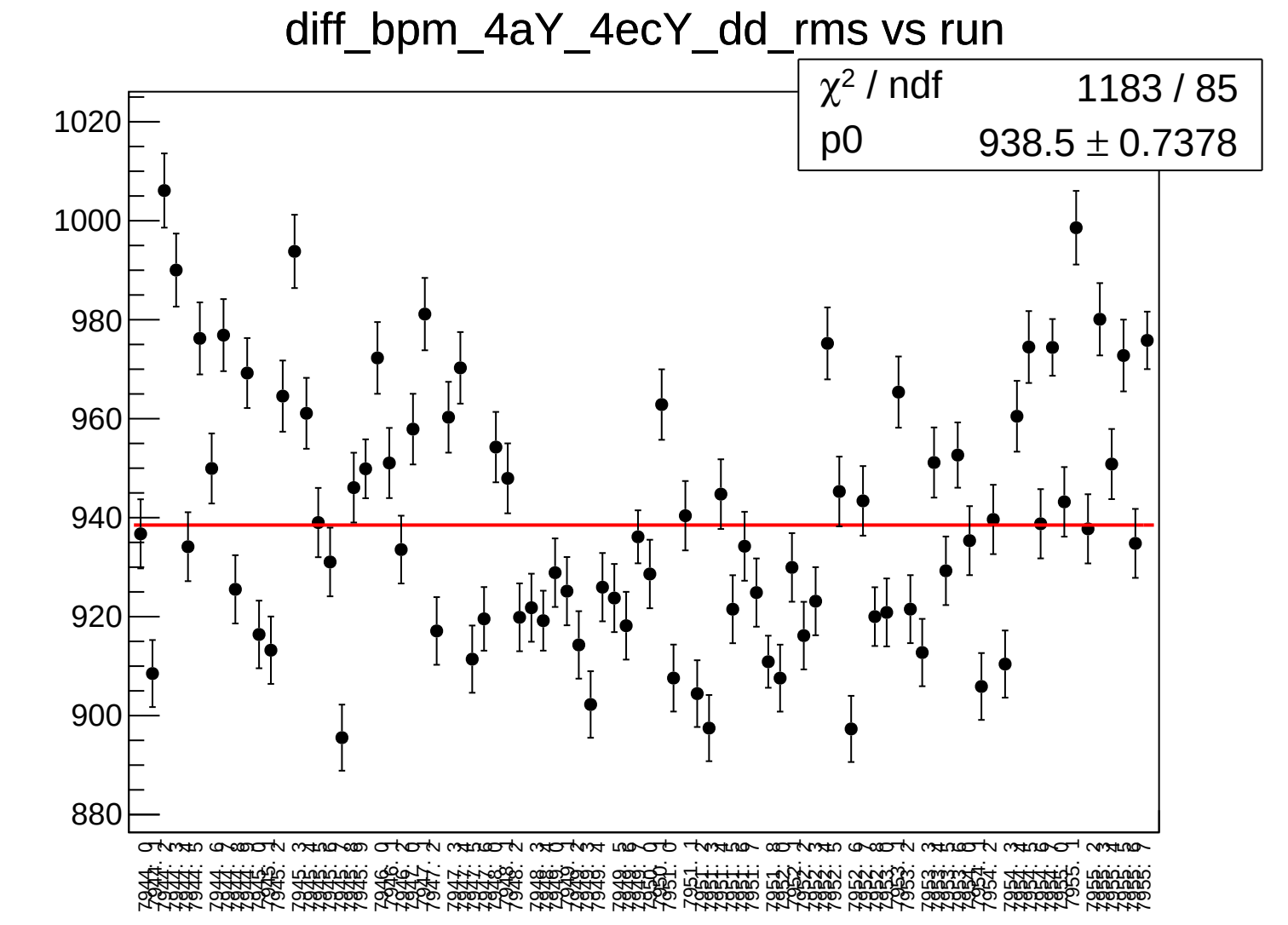

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 75.26 / 85
p0 13.75 ± 6.238
pull
Entries 86
Mean −123.8
Std Dev 0

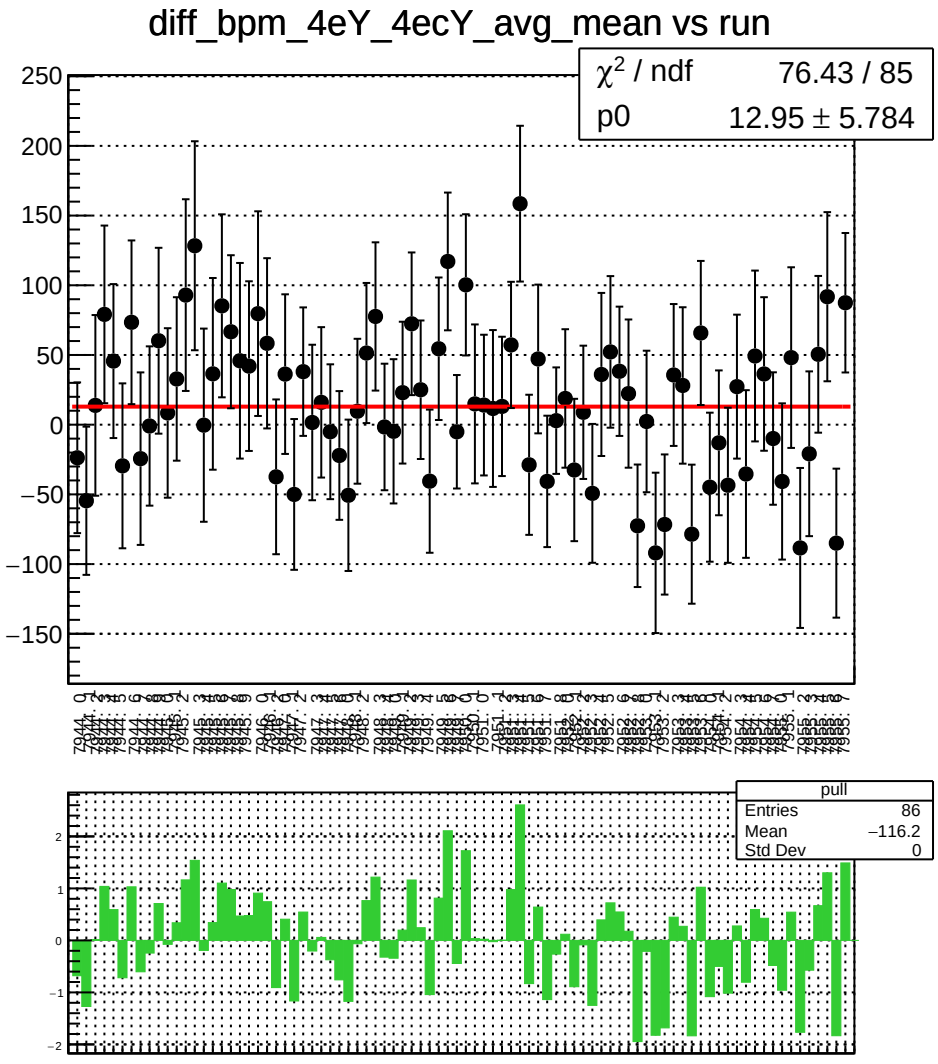

pull1D
Entries 86
Mean 0.02633
Std Dev 0.9351

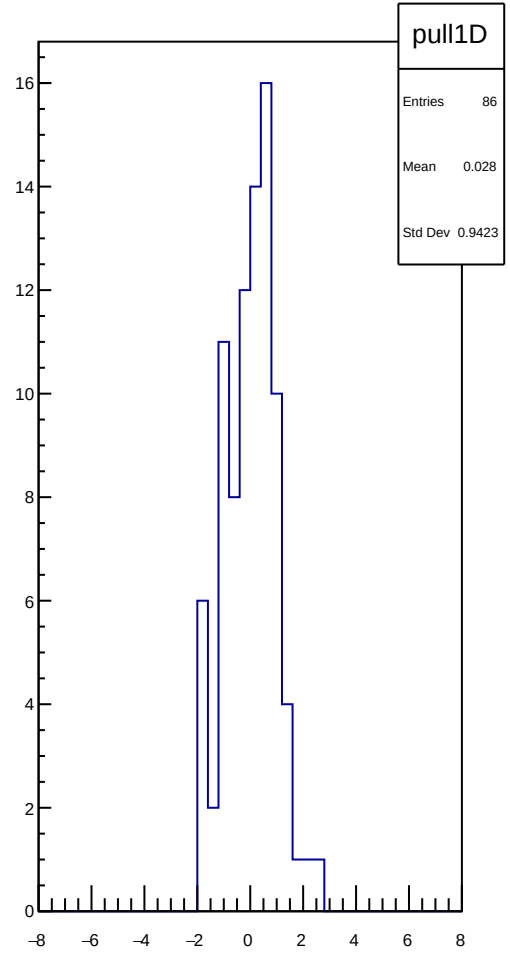

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1.754e+04 / 85
p0 5582 ± 4.411
7500
7000
6500
6000
5500
5000
4500

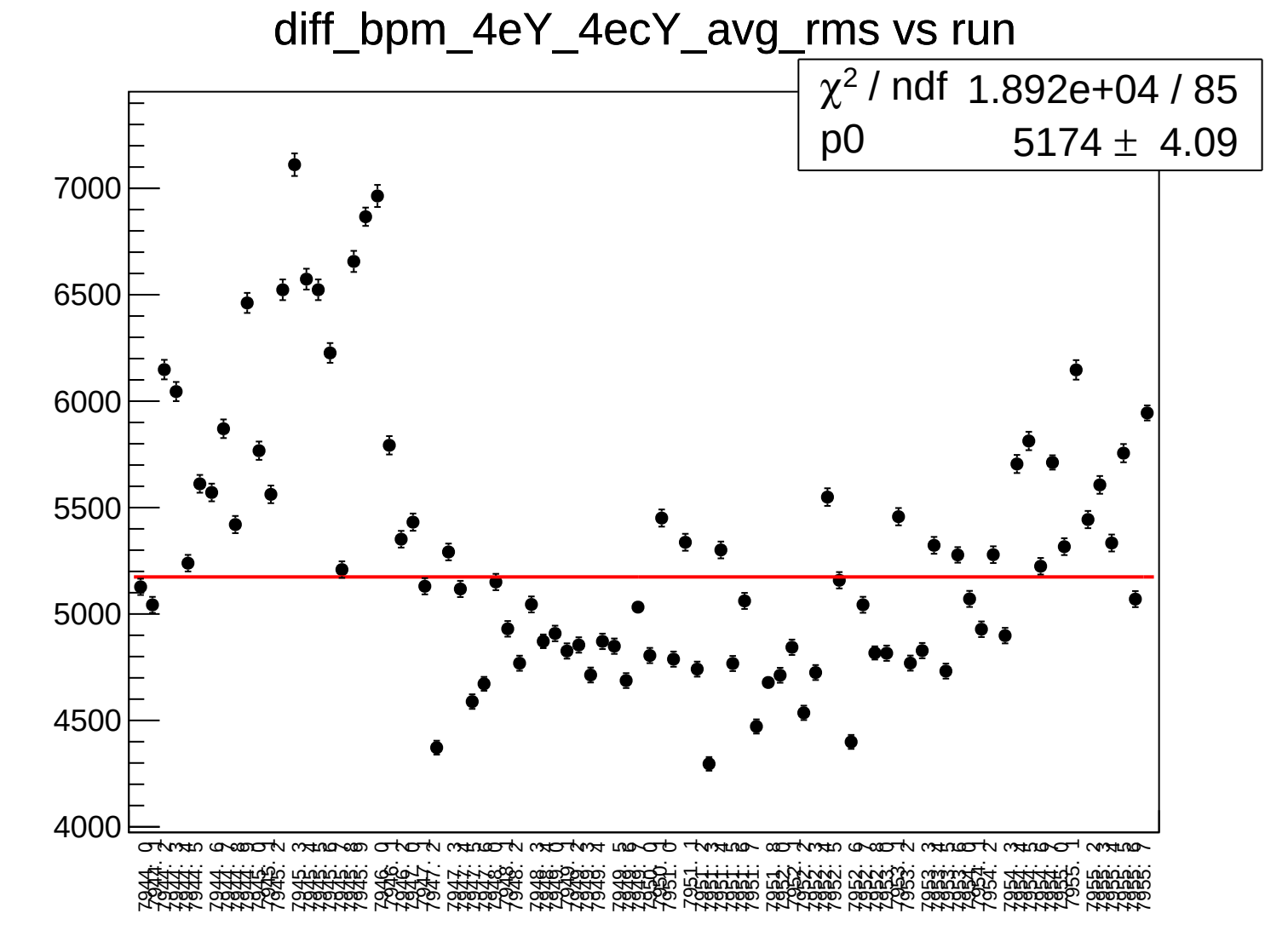

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 71.17 / 85
p0 0.9395 ± 1.043
pull
Entries 86
Mean −869.7
Std Dev 0

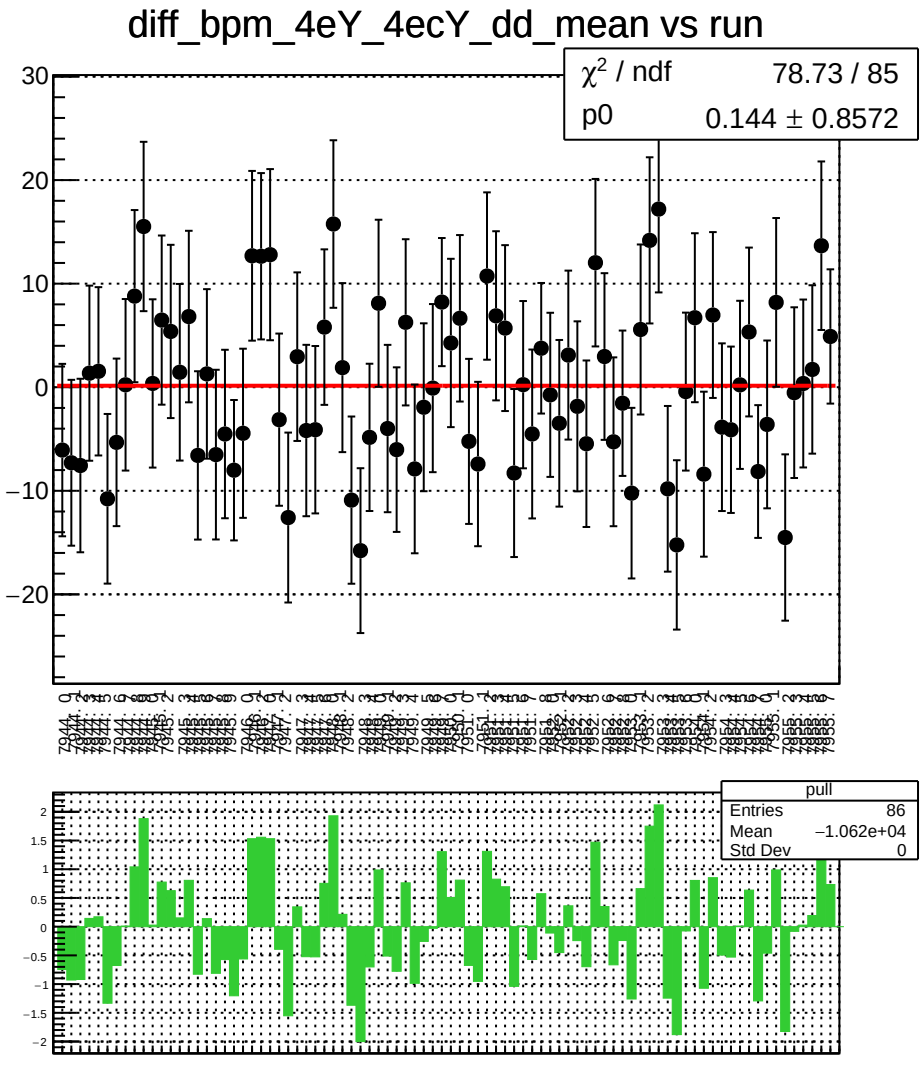

pull1D
Entries 86
Mean 0.0009477
Std Dev 0.9097

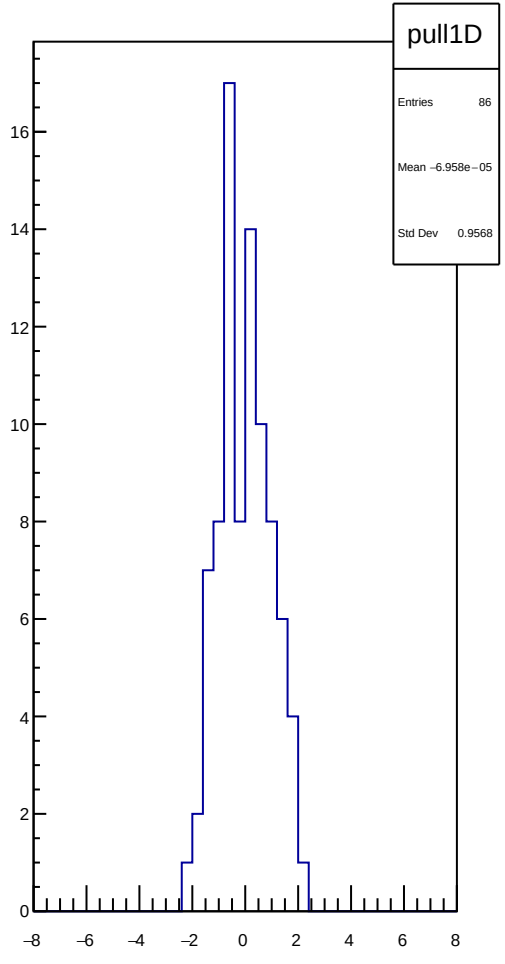

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1183 / 85
p0 938.5 ± 0.7378
1020
1000
980
960
940
920
900
880

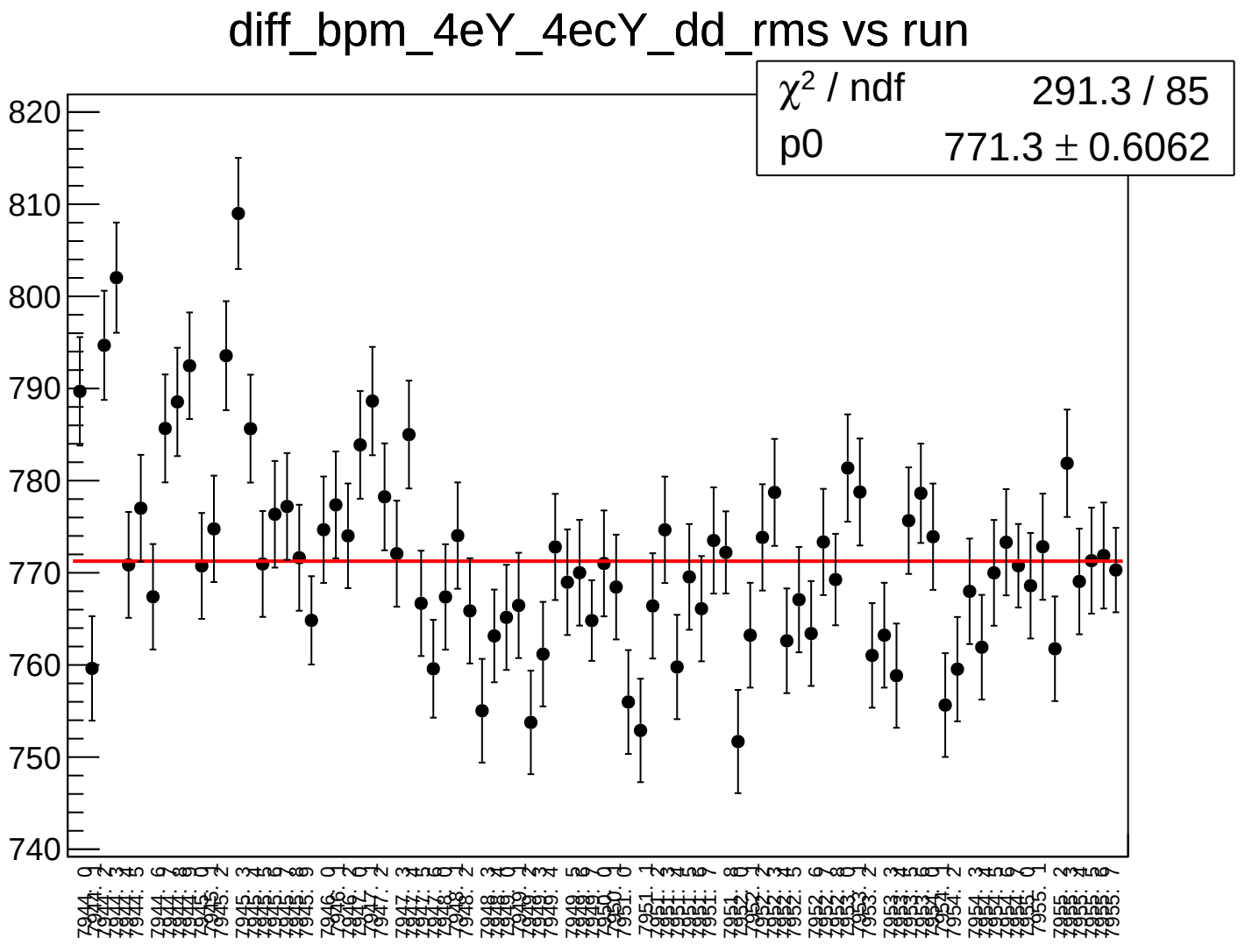

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 76.43 / 85
p0 12.95 ± 5.784
pull
Entries 86
Mean −116.2
Std Dev 0

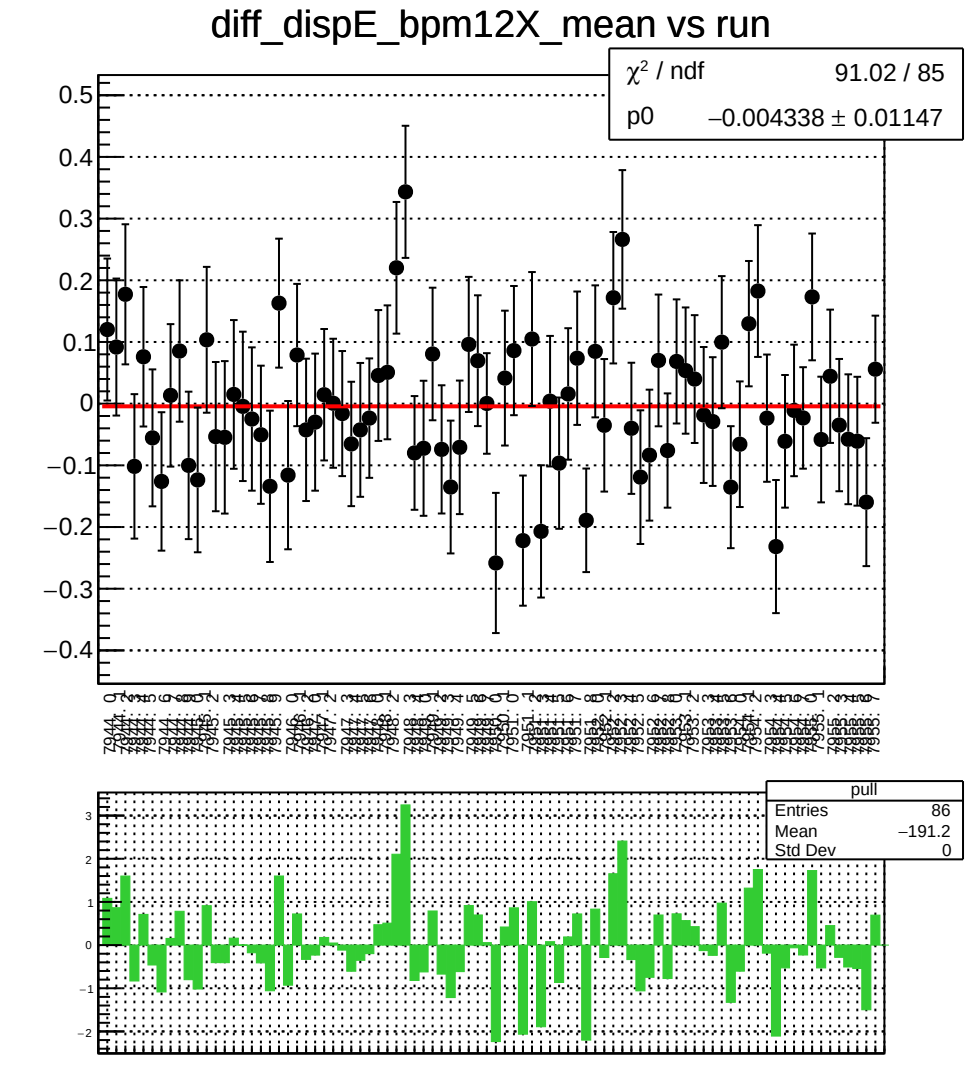

pull1D
Entries 86
Mean 0.028
Std Dev 0.9423

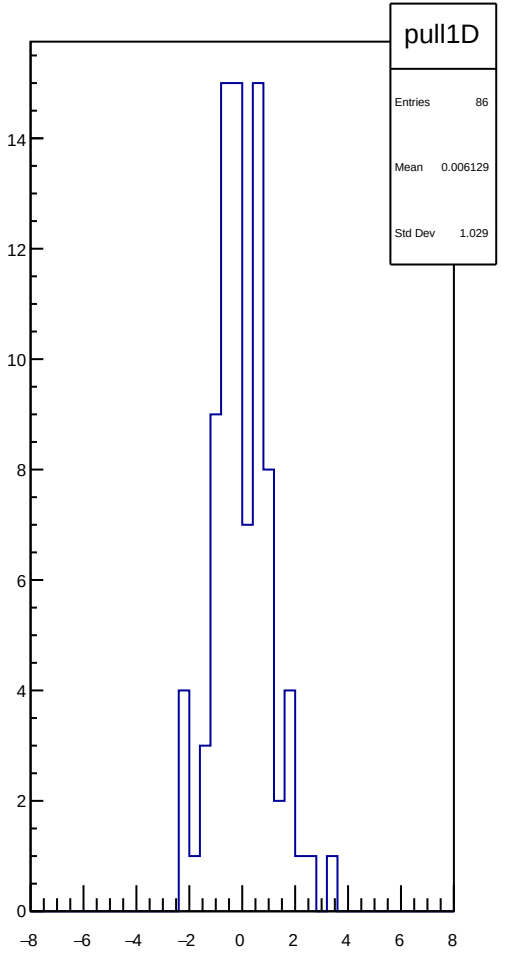

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.892e+04 / 85
p0 5174 ± 4.09
7000
6500
6000
5500
5000
4500
4000

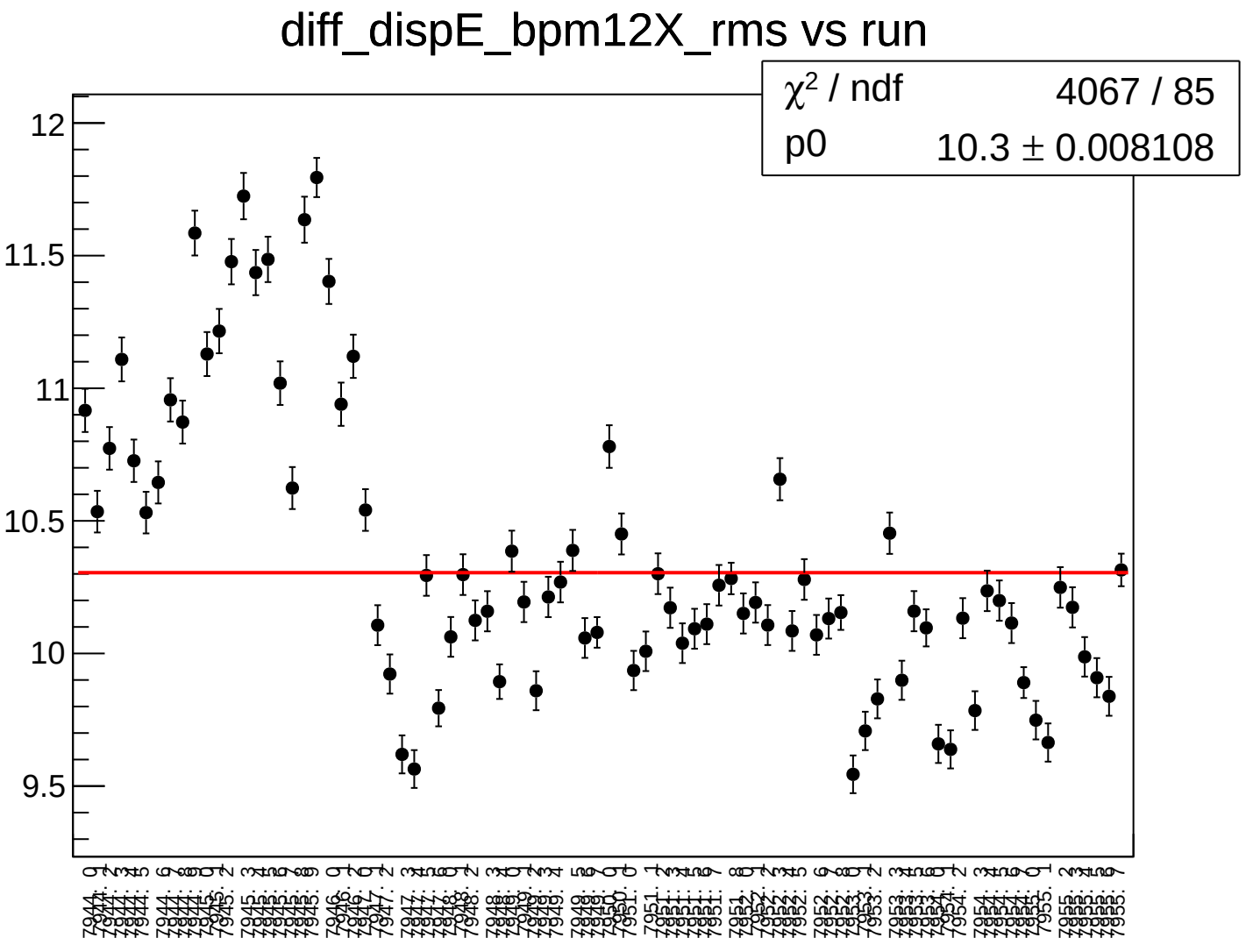

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 78.73 / 85
p0 0.144 ± 0.8572
pull
Entries 86
Mean −1.062e+04
Std Dev 0

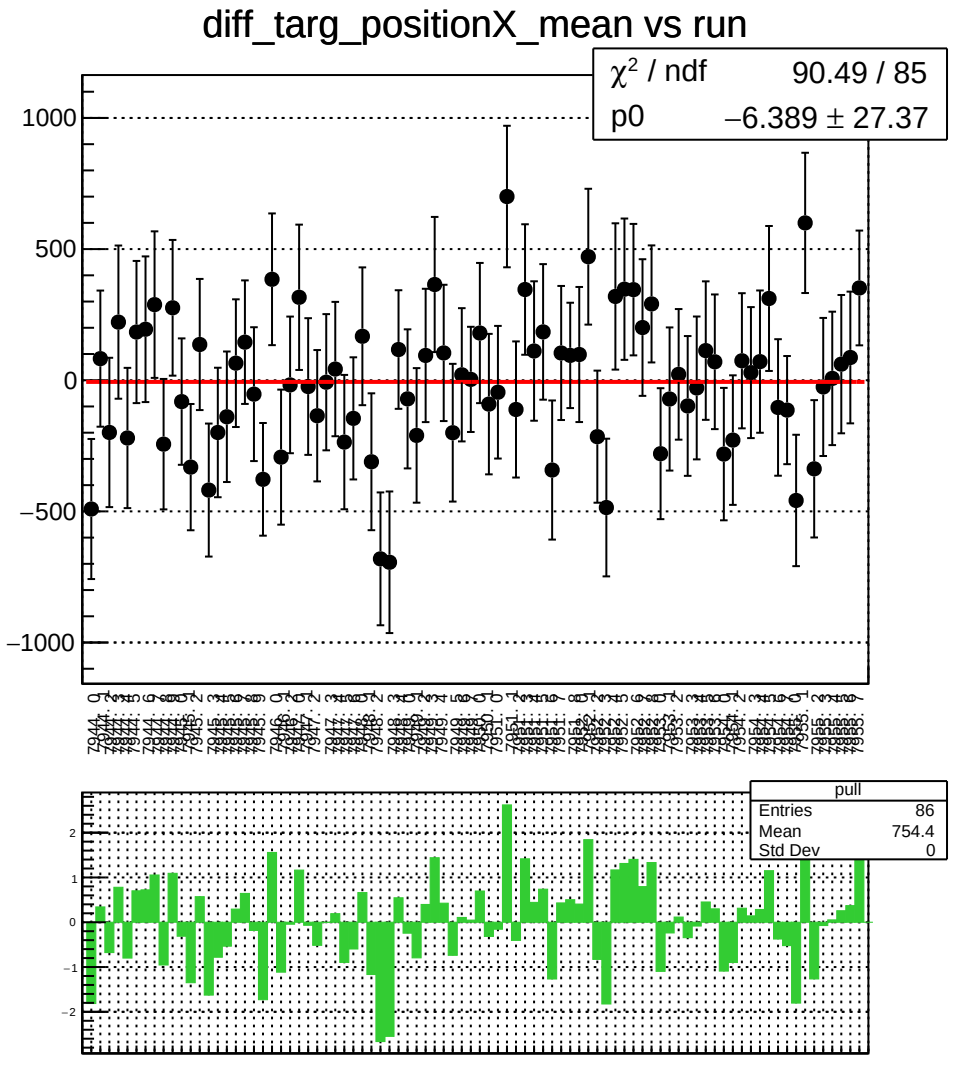

pull1D
Entries 86
Mean −6.958e−05
Std Dev 0.9568

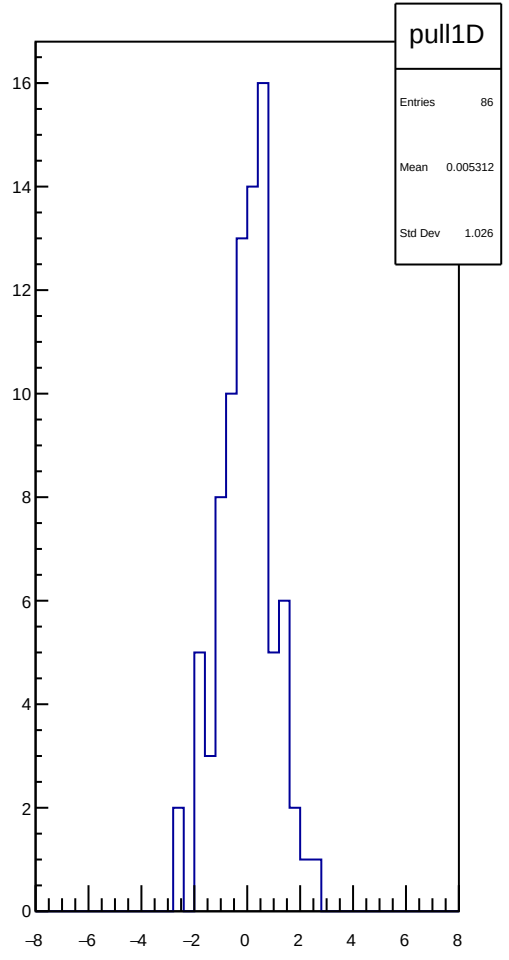

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 291.3 / 85
p0 771.3 ± 0.6062
820
810
800
790
780
770
760
750
740

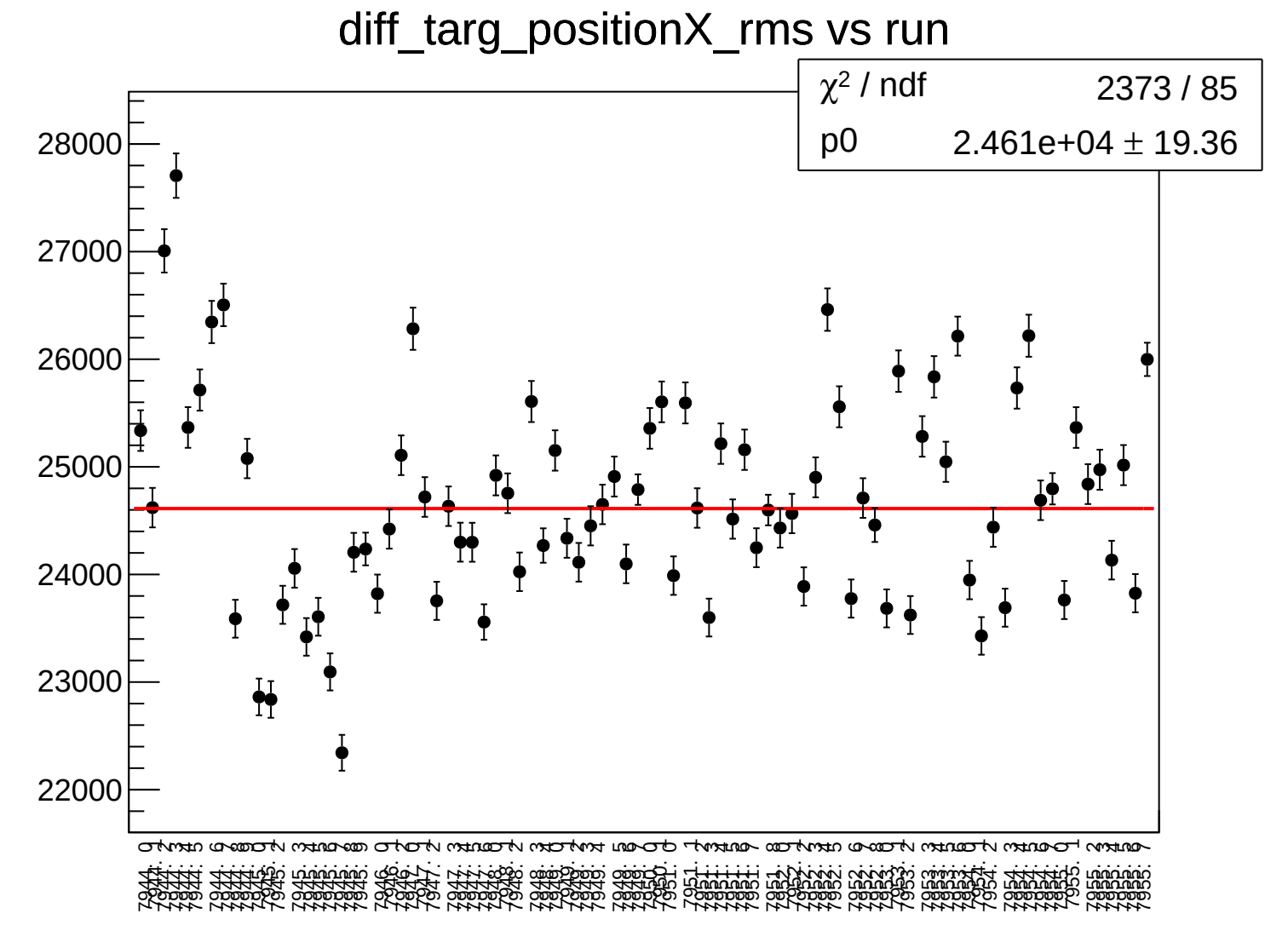

diff_dispE_bpm12X_mean vs run
χ² / ndf 91.02 / 85
p0 −0.004338 ± 0.01147
pull
Entries 86
Mean −191.2
Std Dev 0

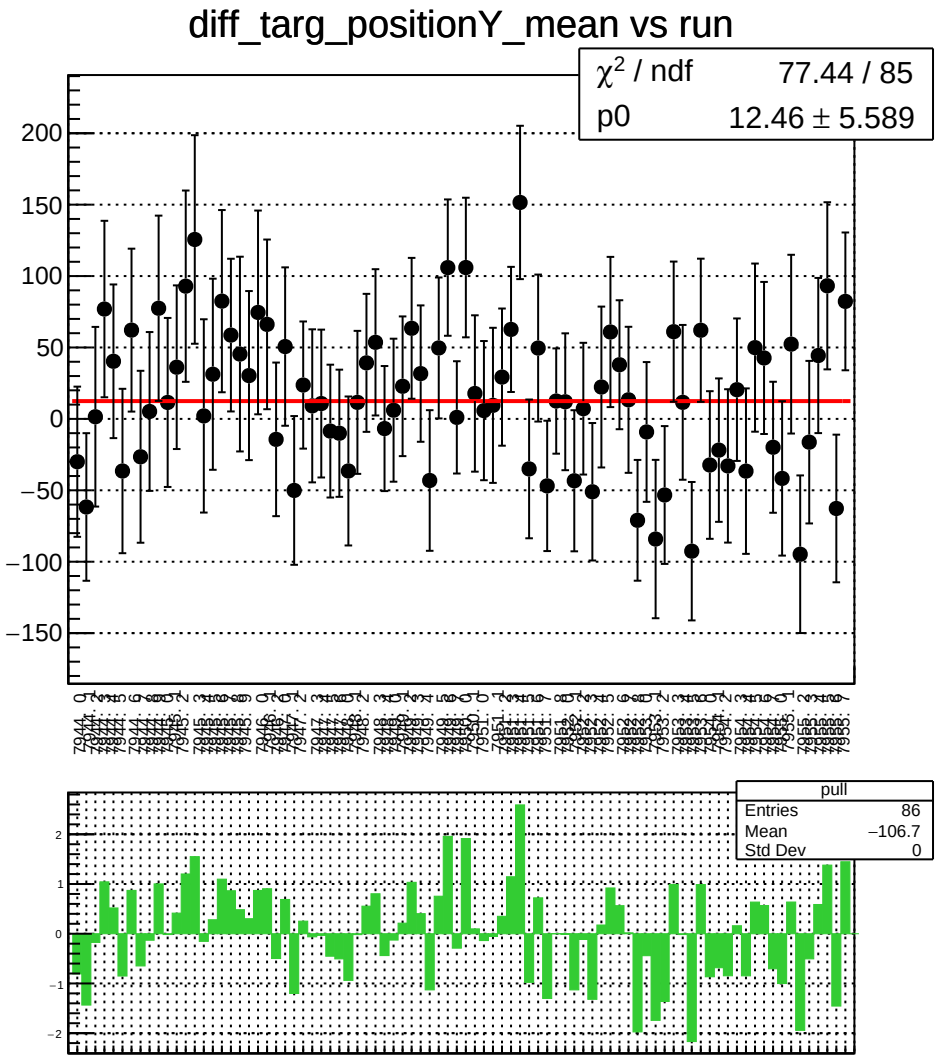

pull1D
Entries 86
Mean 0.006129
Std Dev 1.029

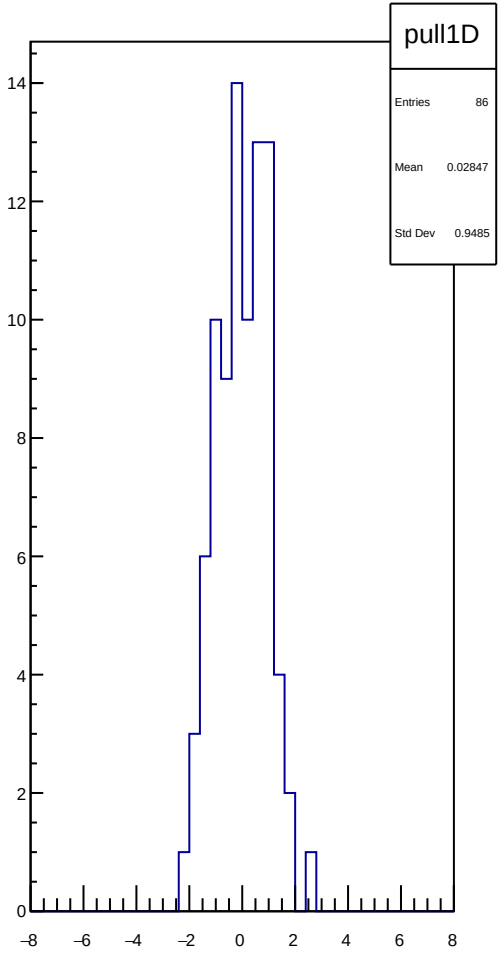

diff_dispE_bpm12X_rms vs run
χ² / ndf 4067 / 85
p0 10.3 ± 0.008108
12
11.5
11
10.5
10
9.5

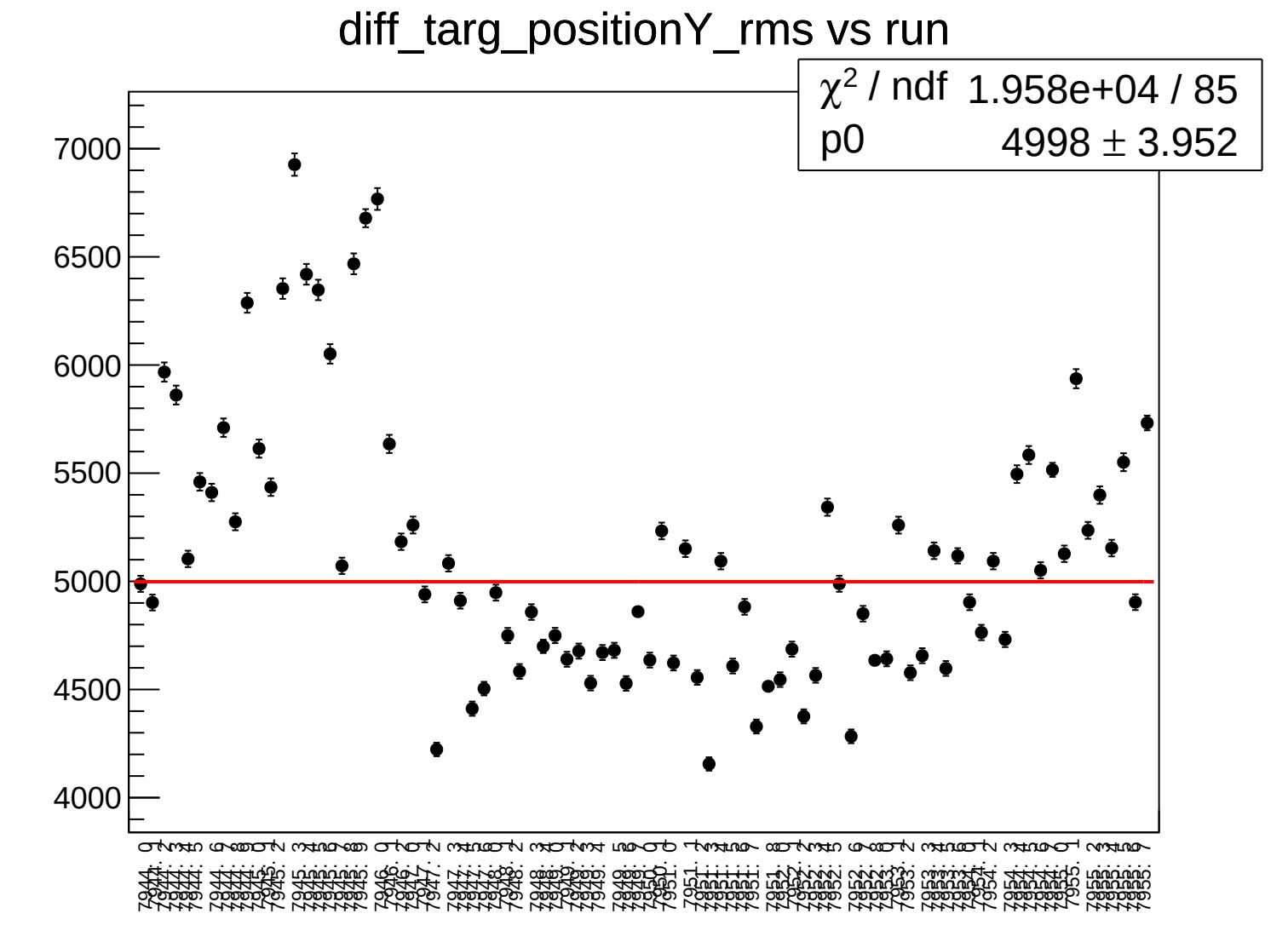

diff_targ_positionX_mean vs run
χ² / ndf 90.49 / 85
p0 −6.389 ± 27.37
1000
500
0
−500
−1000
pull
Entries 86
Mean 754.4
Std Dev 0
2
1
0
−1
−2

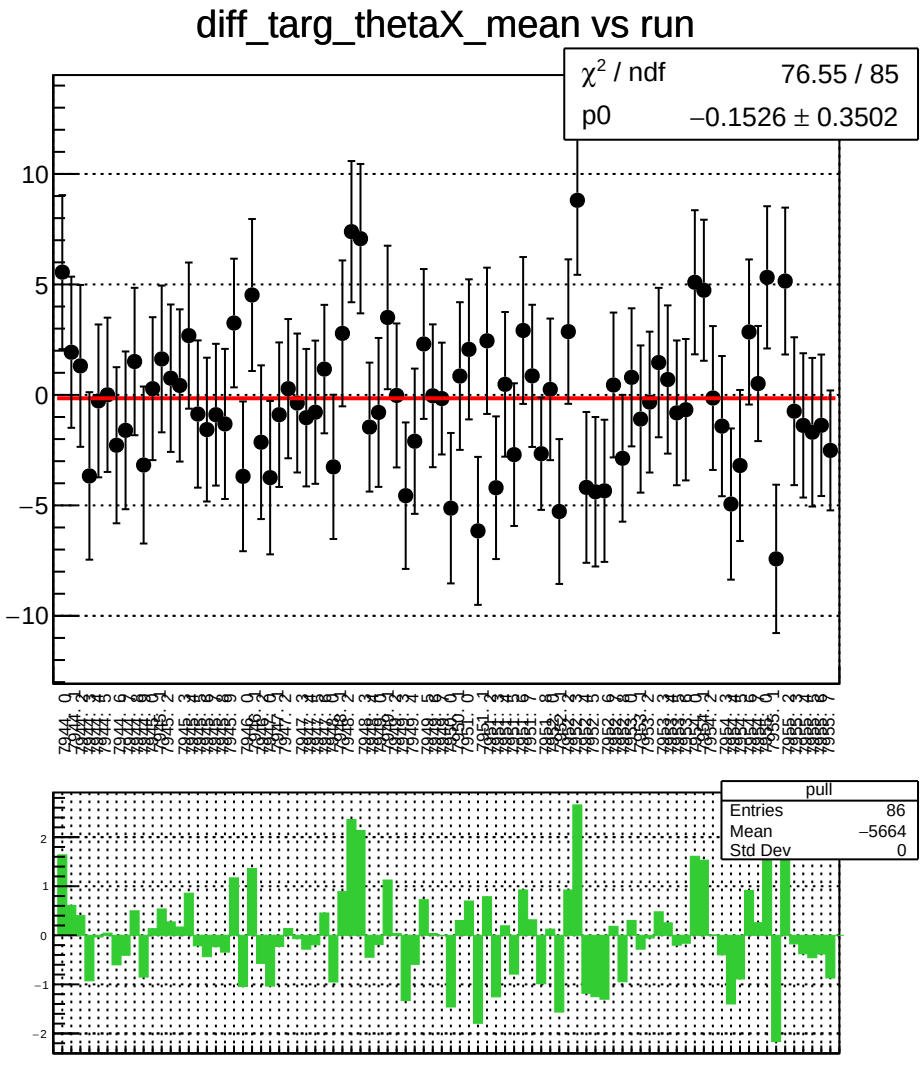

pull1D
Entries 86
Mean 0.005312
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

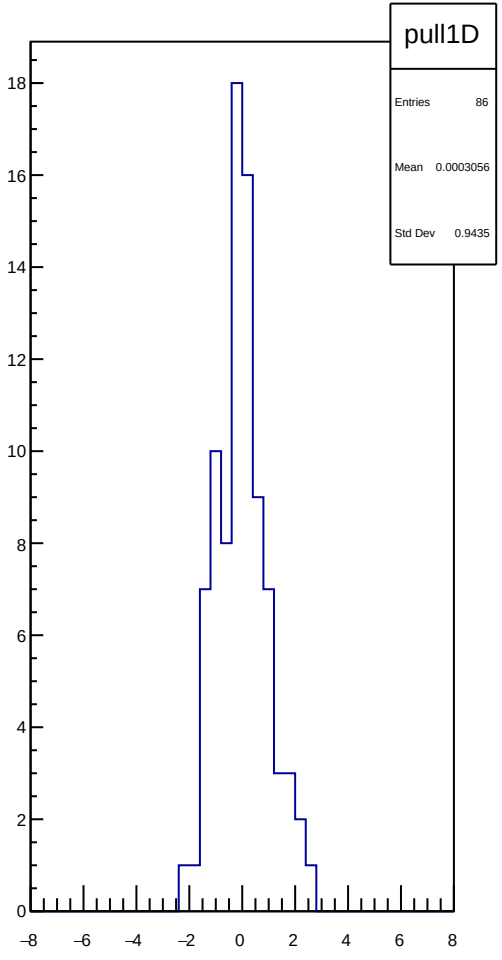

diff_targ_positionX_rms vs run
χ² / ndf 2373 / 85
p0 2.461e+04 ± 19.36
28000
27000
26000
25000
24000
23000
22000

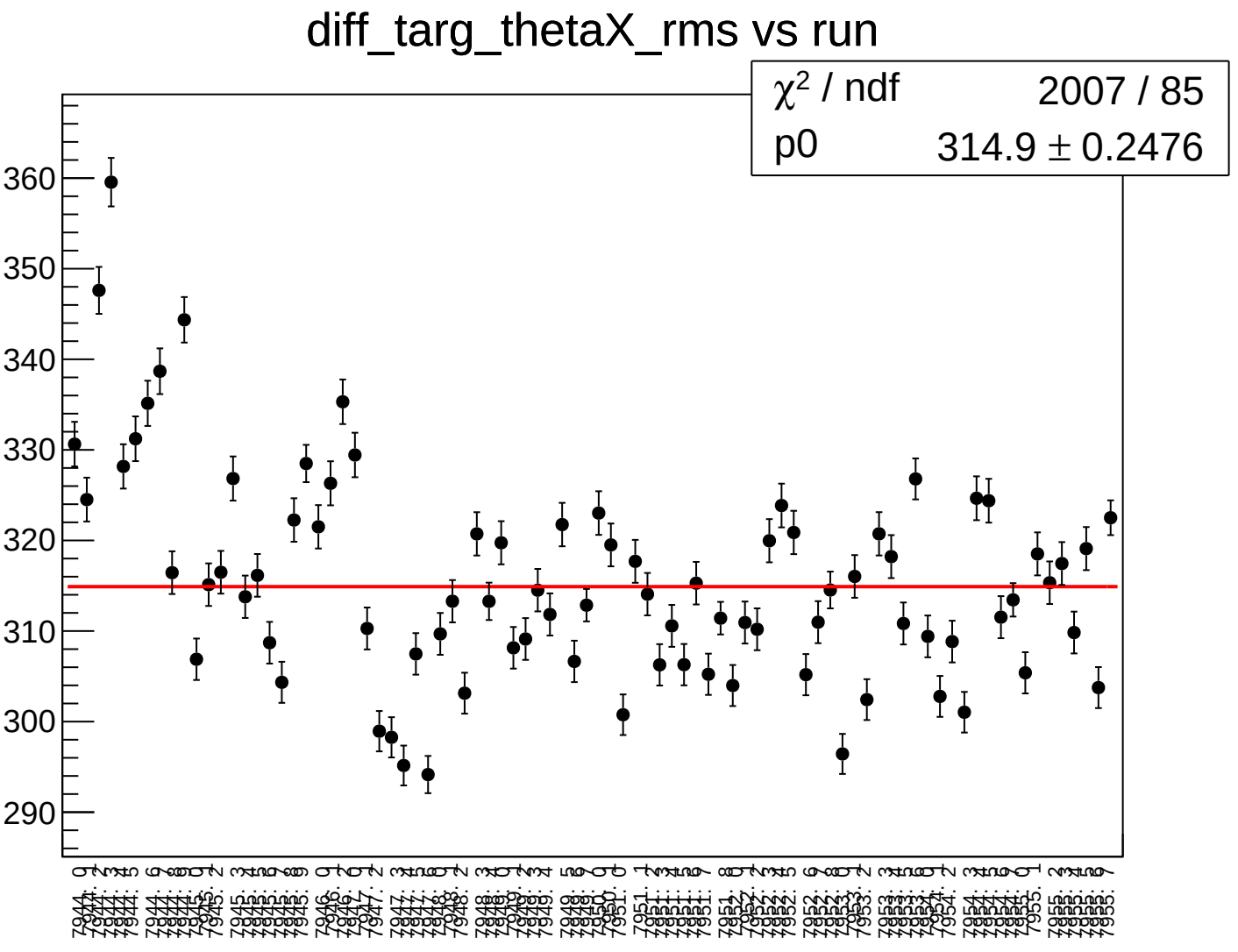

diff_targ_positionY_mean vs run
χ² / ndf 77.44 / 85
p0 12.46 ± 5.589
pull
Entries 86
Mean −106.7
Std Dev 0

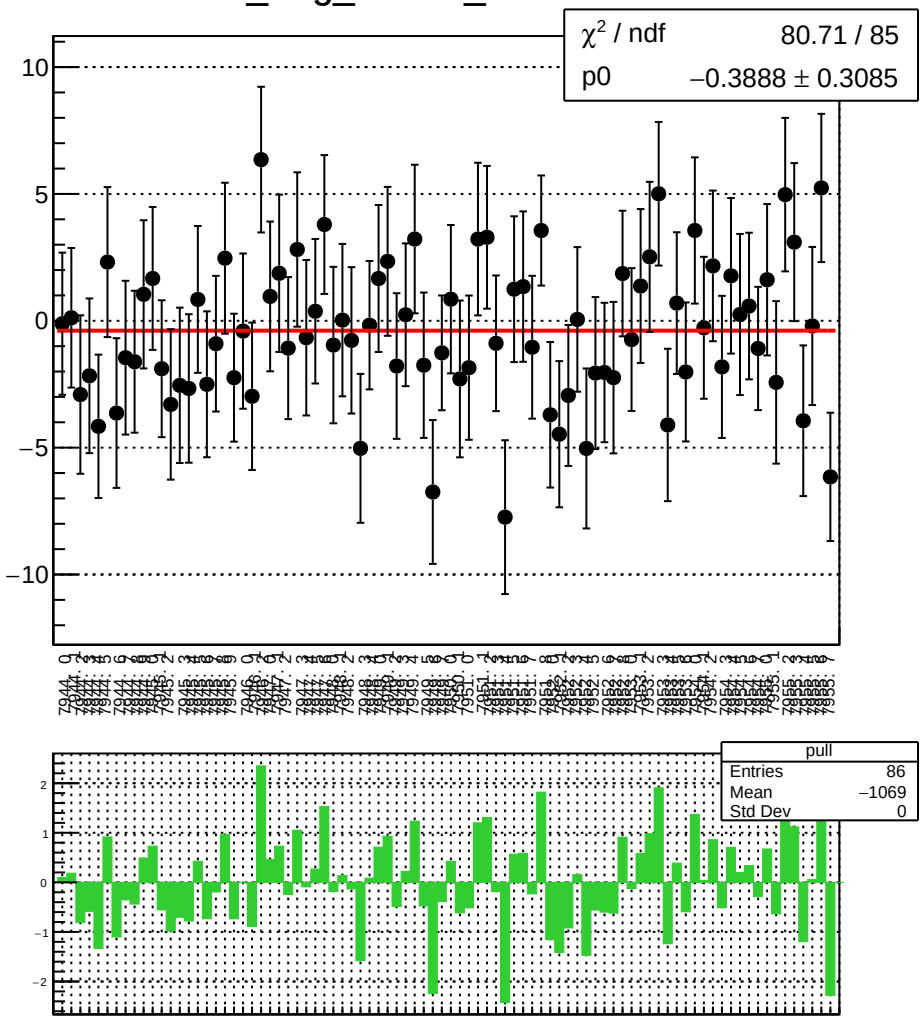

pull1D
Entries 86
Mean 0.02847
Std Dev 0.9485

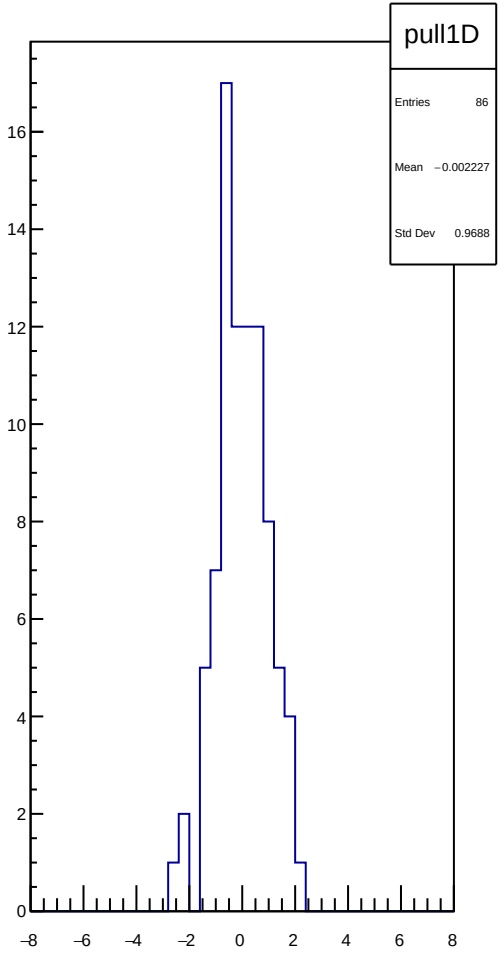

diff_targ_positionY_rms vs run
χ² / ndf 1.958e+04 / 85
p0 4998 ± 3.952
7000
6500
6000
5500
5000
4500
4000

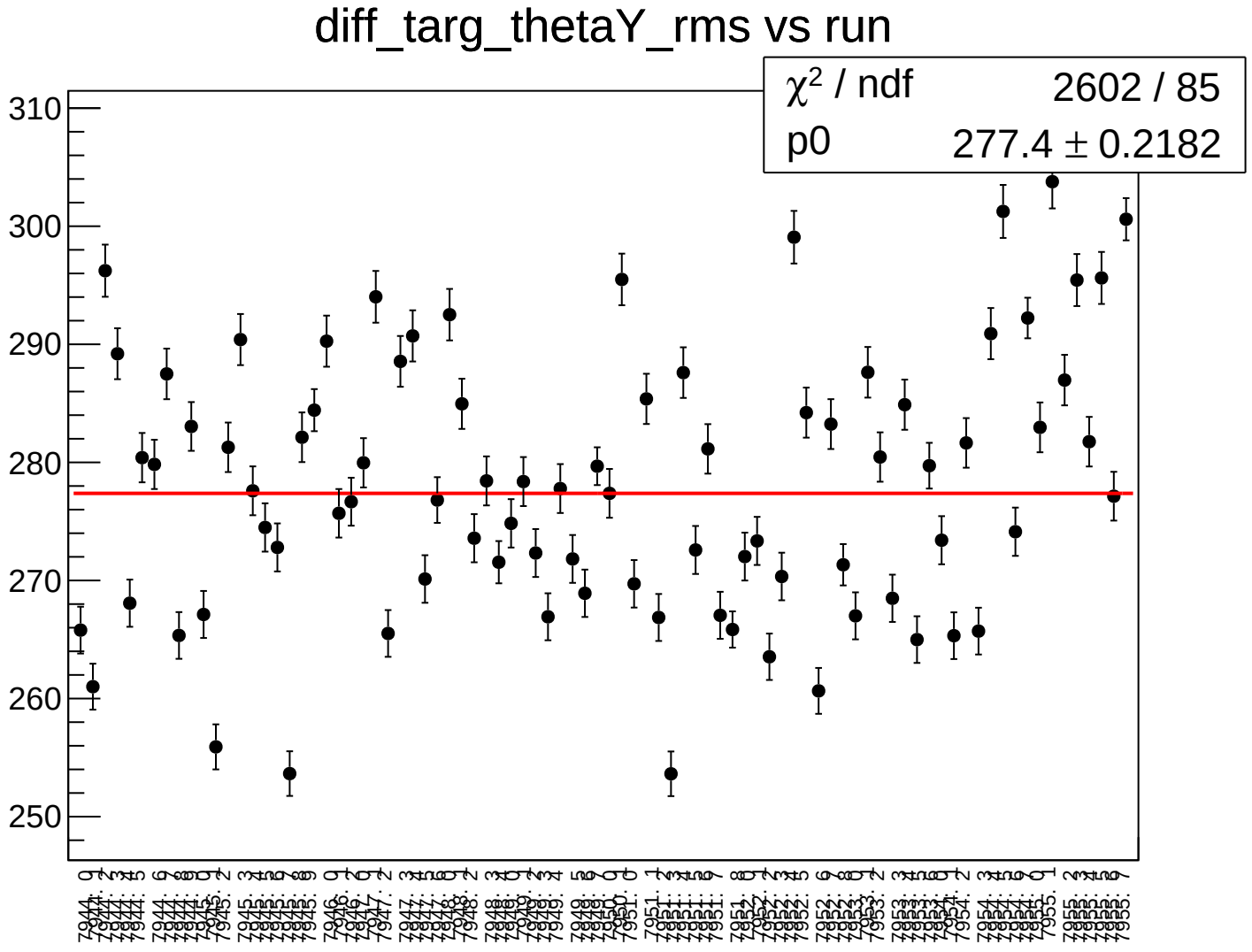

diff_targ_thetaX_mean vs run
χ² / ndf 76.55 / 85
p0 −0.1526 ± 0.3502
pull
Entries 86
Mean −5664
Std Dev 0

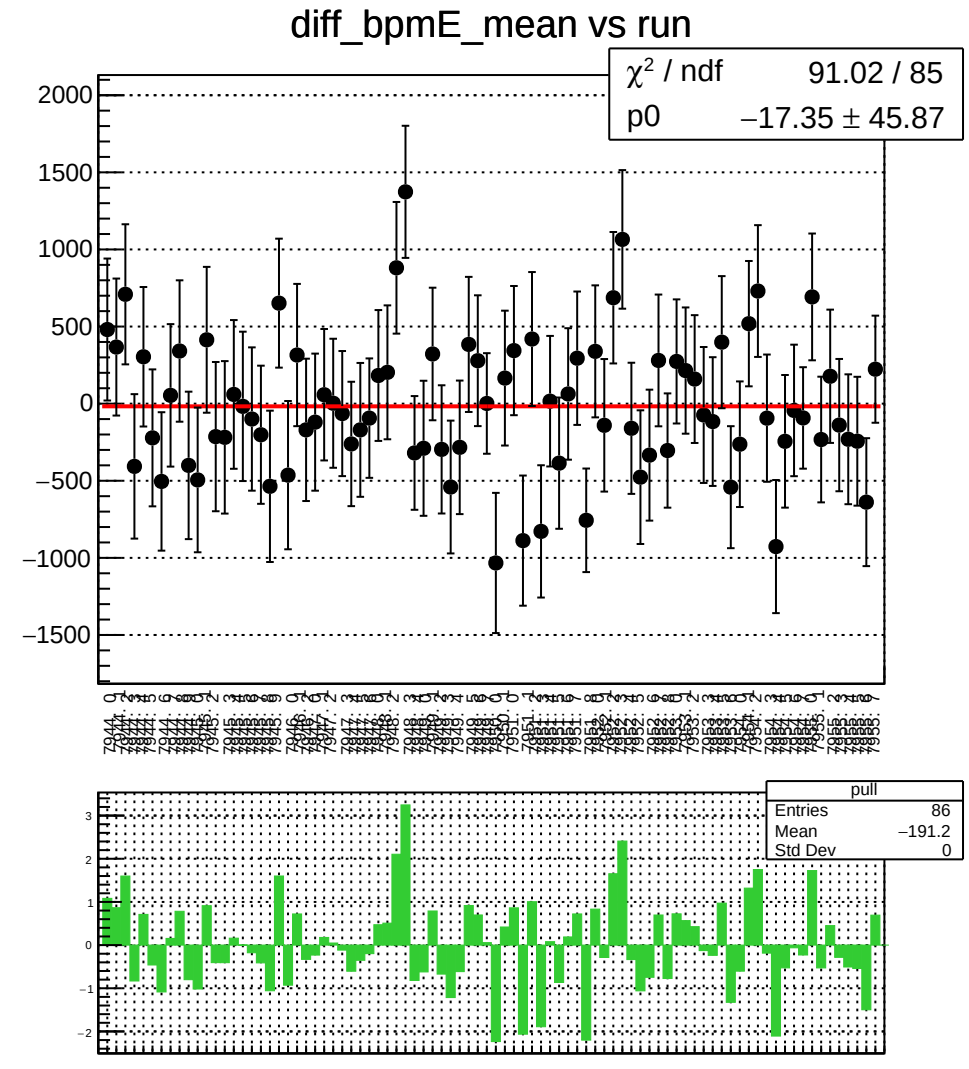

pull1D
Entries 86
Mean 0.0003056
Std Dev 0.9435

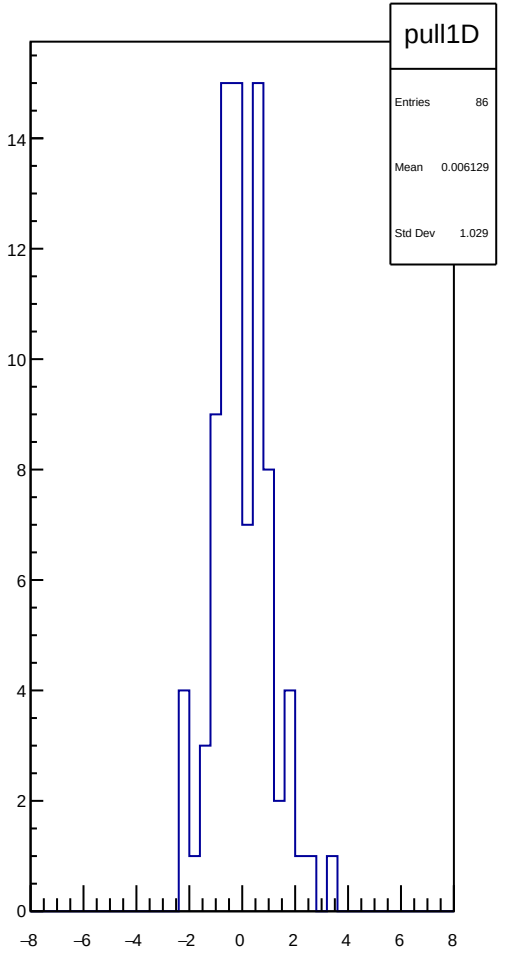

diff_targ_thetaX_rms vs run
χ^2 / ndf 2007 / 85
p0 314.9 ± 0.2476
360
350
340
330
320
310
300
290


diff_targ_thetaY_mean vs run
χ^2 / ndf 80.71 / 85
p0 −0.3888 ± 0.3085
pull
Entries 86
Mean −1069
Std Dev 0

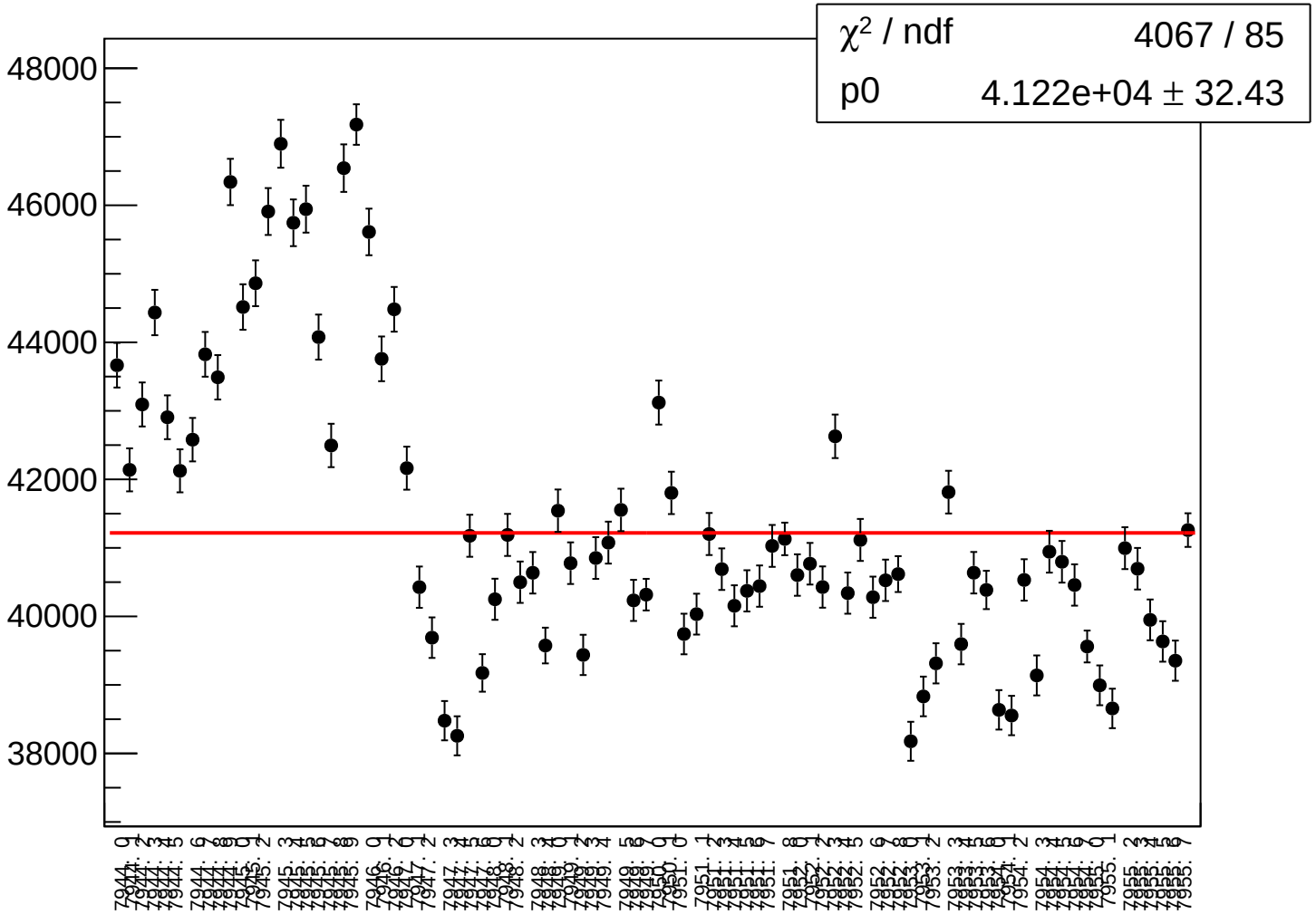

pull1D
Entries 86
Mean −0.002227
Std Dev 0.9688

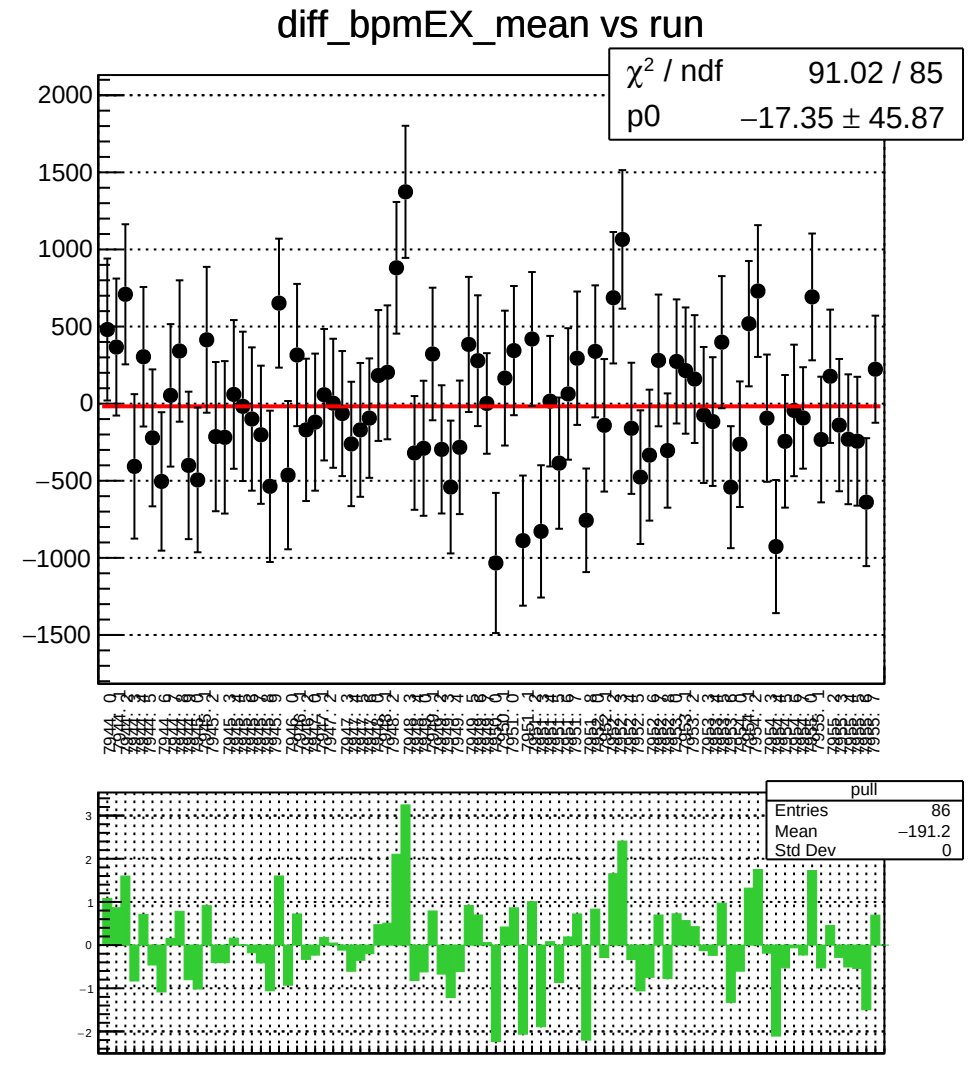

diff_targ_thetaY_rms vs run
χ² / ndf 2602 / 85
p0 277.4 ± 0.2182
310
300
290
280
270
260
250

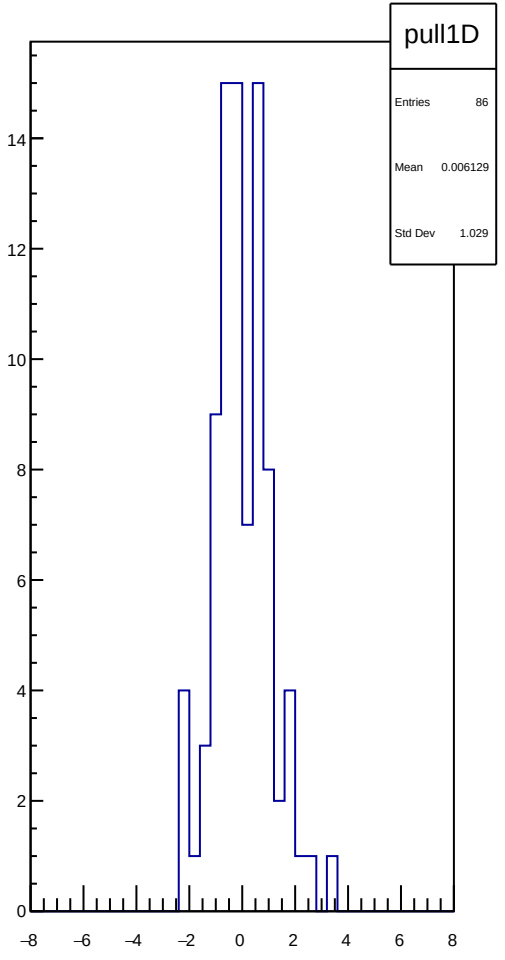

diff_bpmE_mean vs run
χ² / ndf 91.02 / 85
p0 −17.35 ± 45.87
pull
Entries 86
Mean −191.2
Std Dev 0

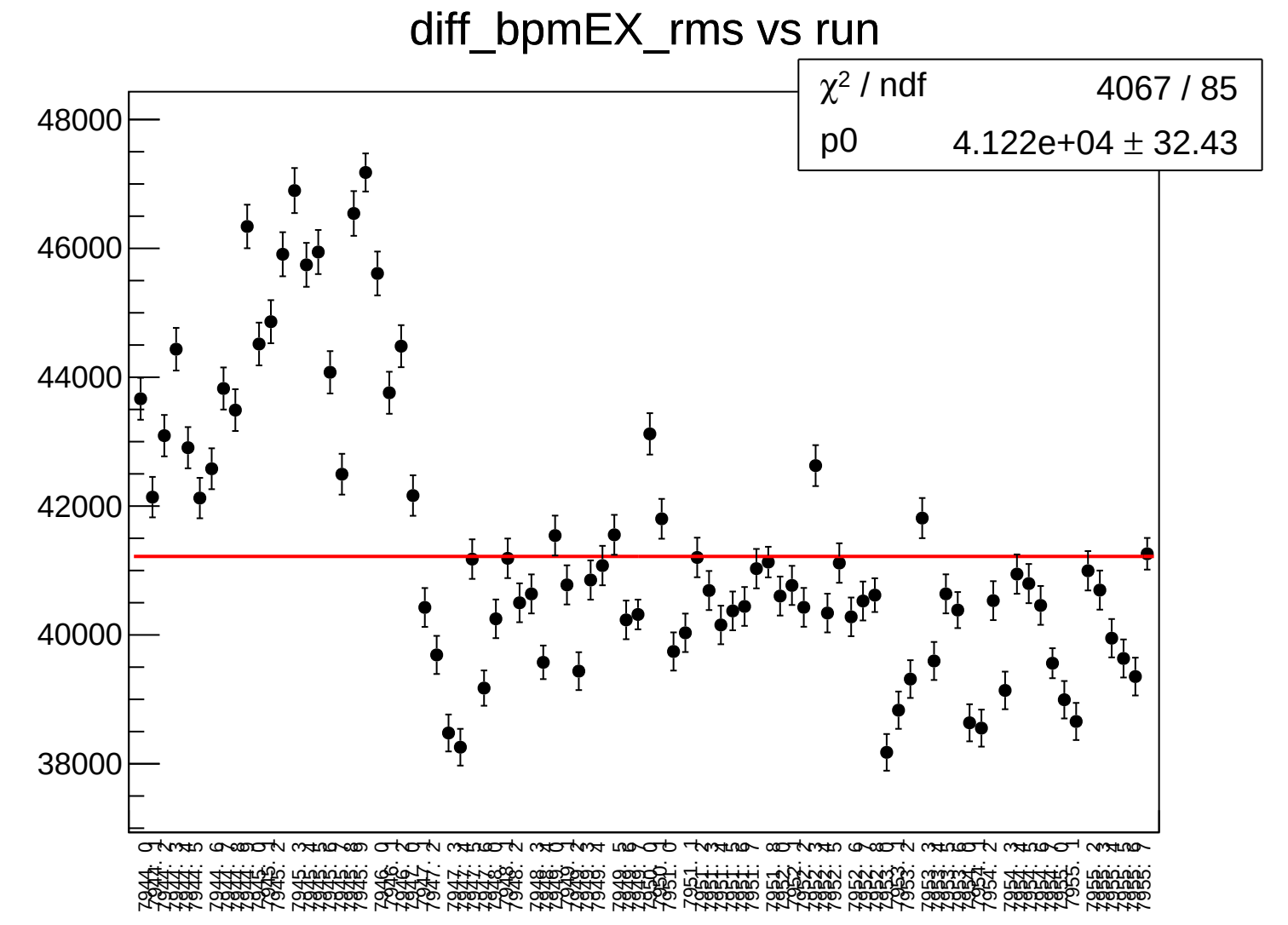

pull1D
Entries 86
Mean 0.006129
Std Dev 1.029

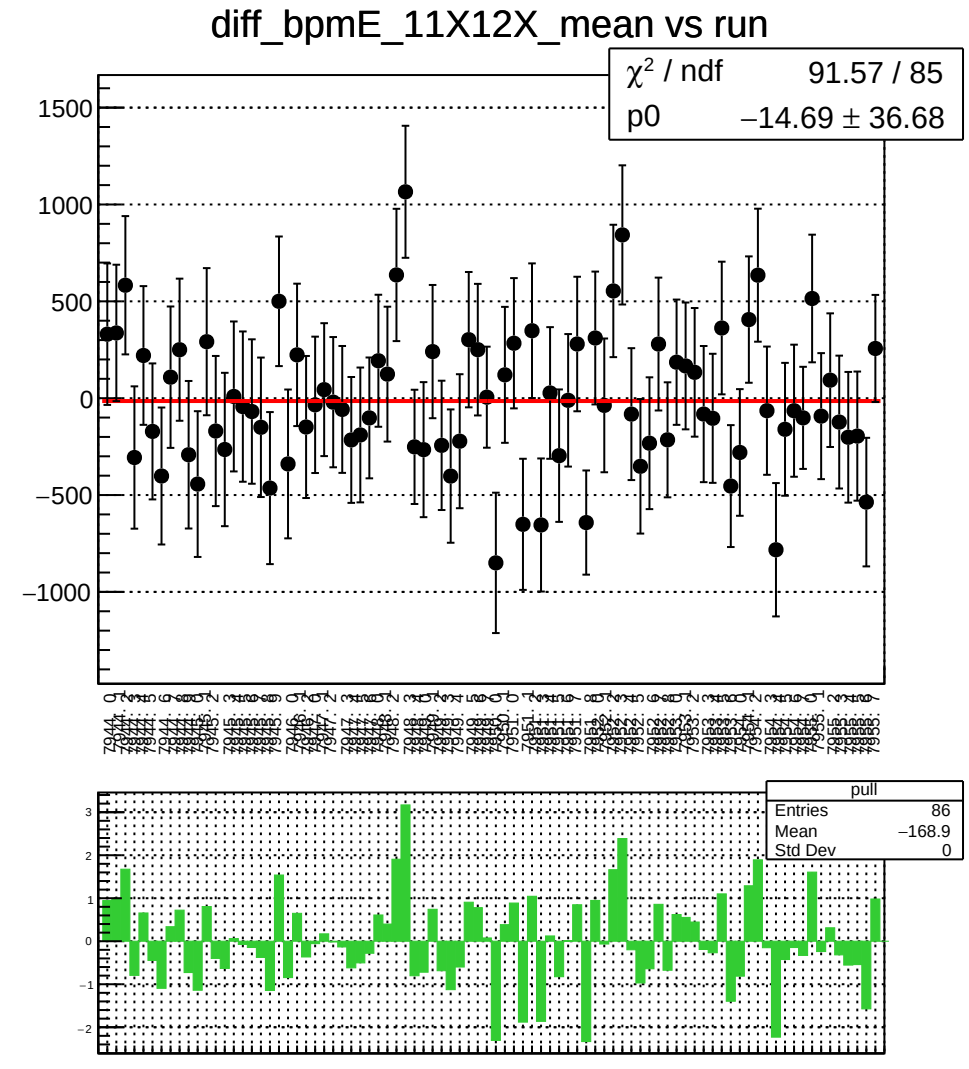
diff_bpmE_rms vs run

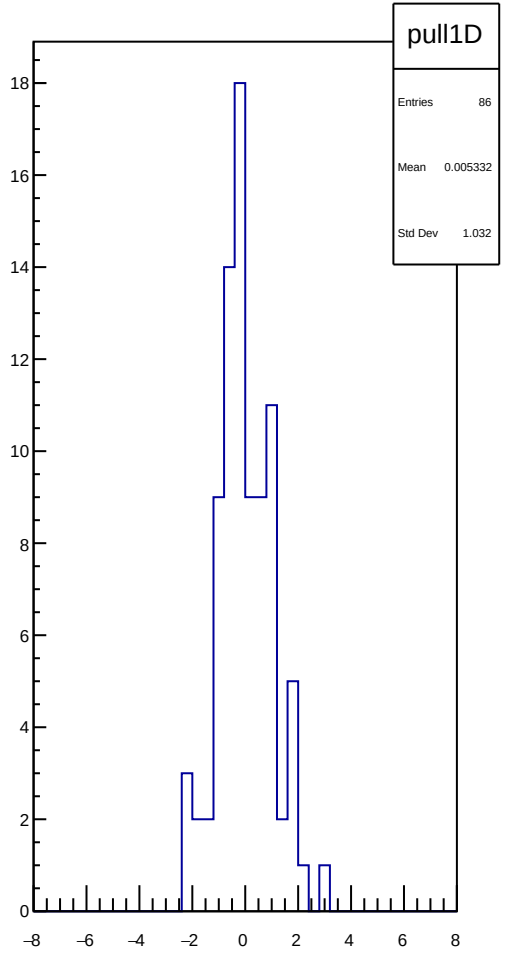


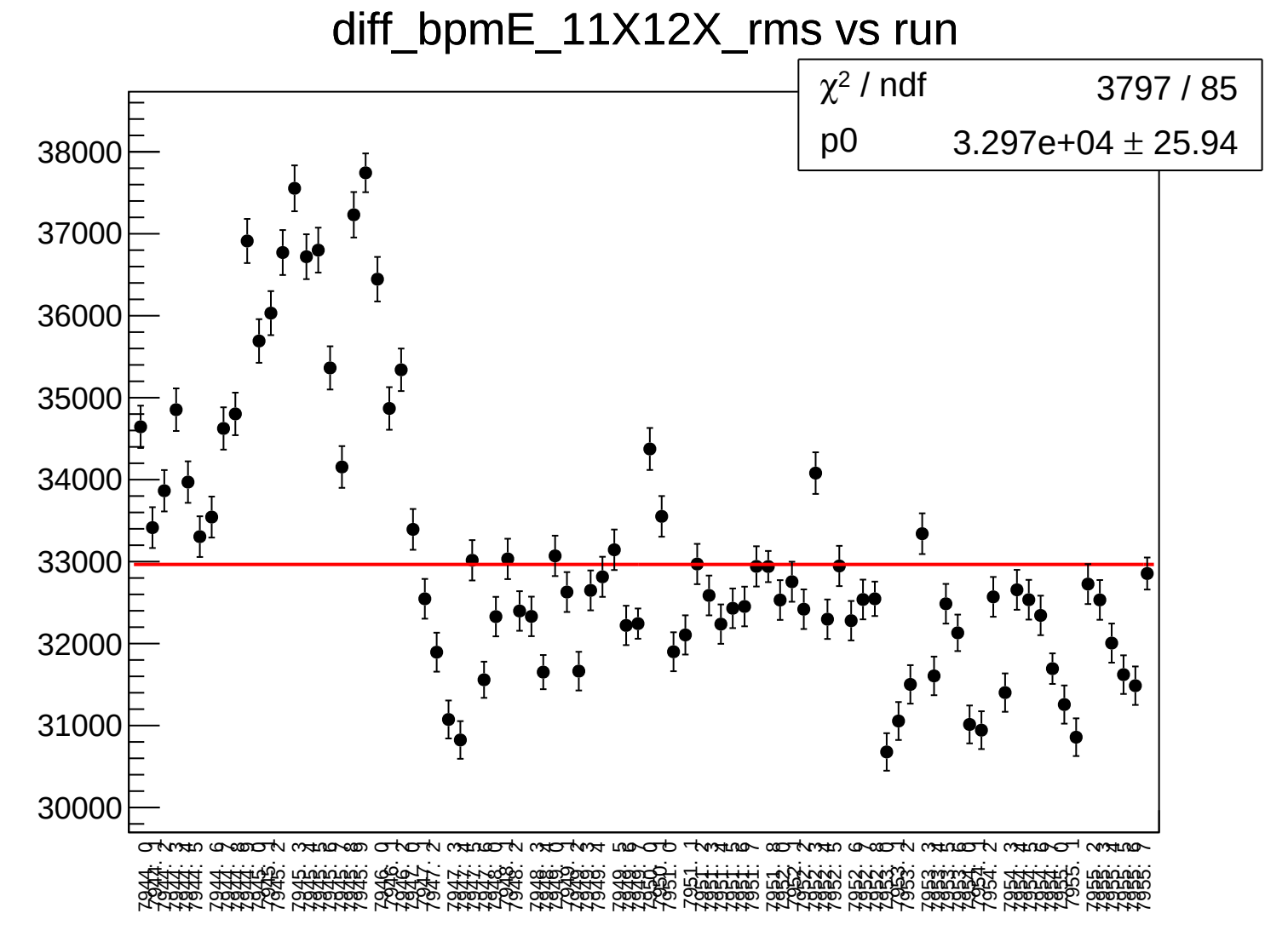

diff_bpmEX_mean vs run
χ² / ndf 91.02 / 85
p0 −17.35 ± 45.87
pull
Entries 86
Mean −191.2
Std Dev 0

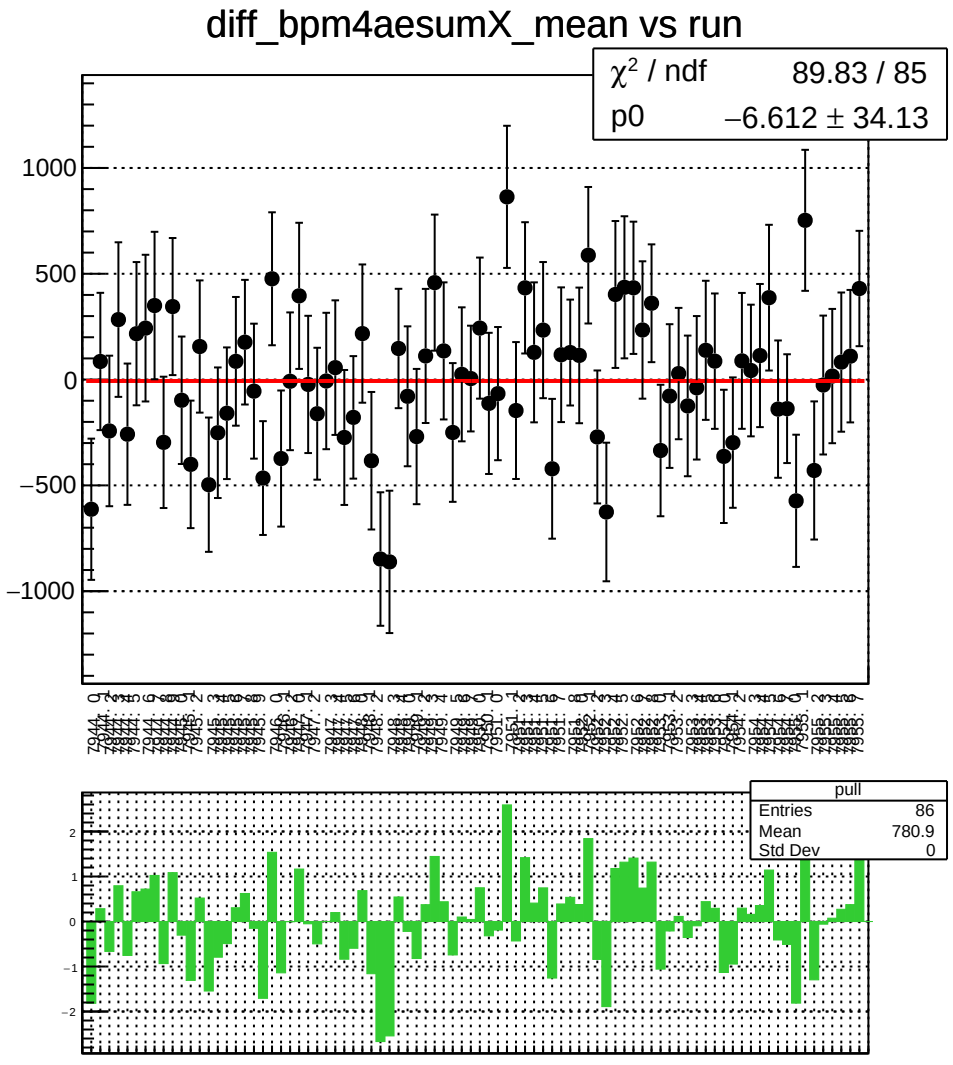

pull1D
Entries 86
Mean 0.006129
Std Dev 1.029

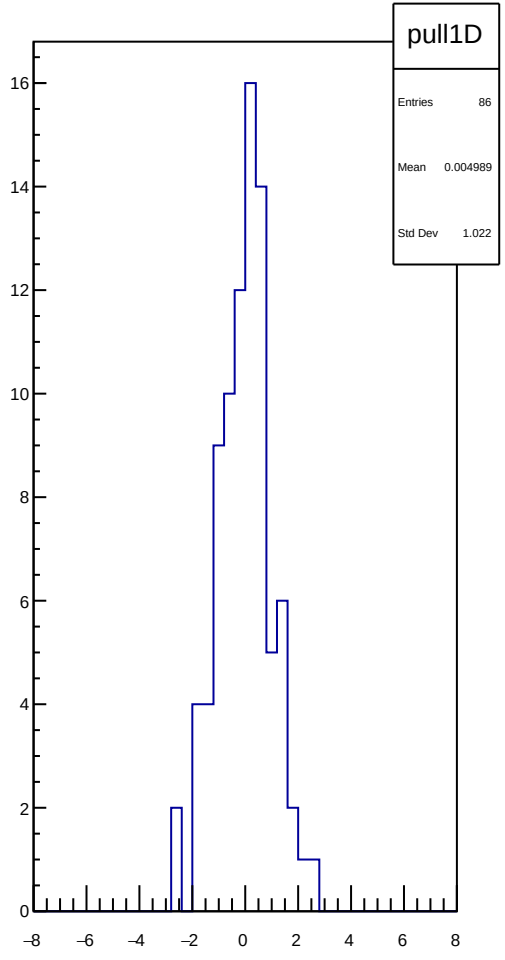

diff_bpmEX_rms vs run
χ² / ndf 4067 / 85
p0 4.122e+04 ± 32.43
48000
46000
44000
42000
40000
38000

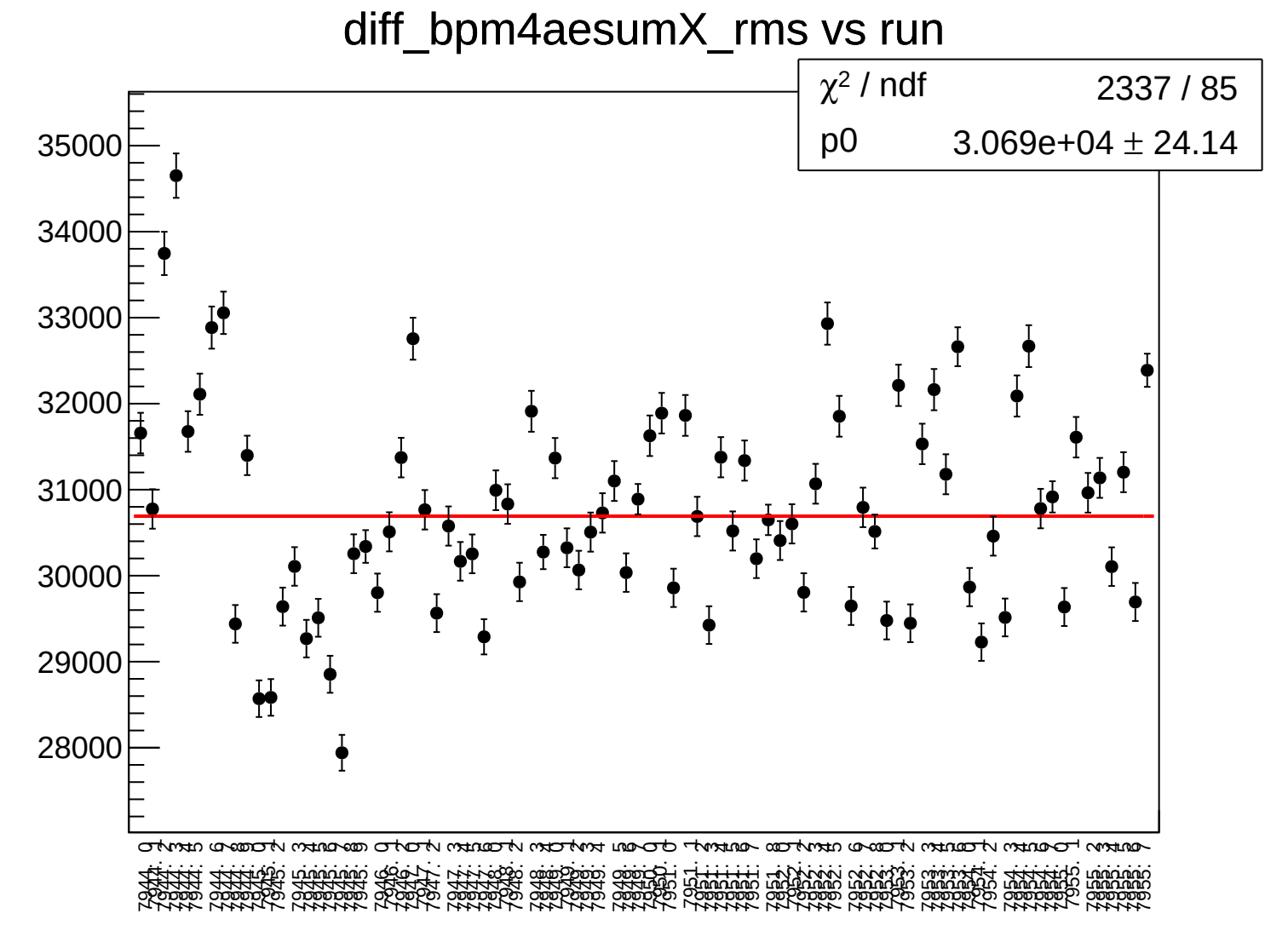

diff_bpmE_11X12X_mean vs run
χ² / ndf 91.57 / 85
p0 −14.69 ± 36.68
1500
1000
500
0
−500
−1000
pull
Entries 86
Mean −168.9
Std Dev 0
3
2
1
0
−1
−2

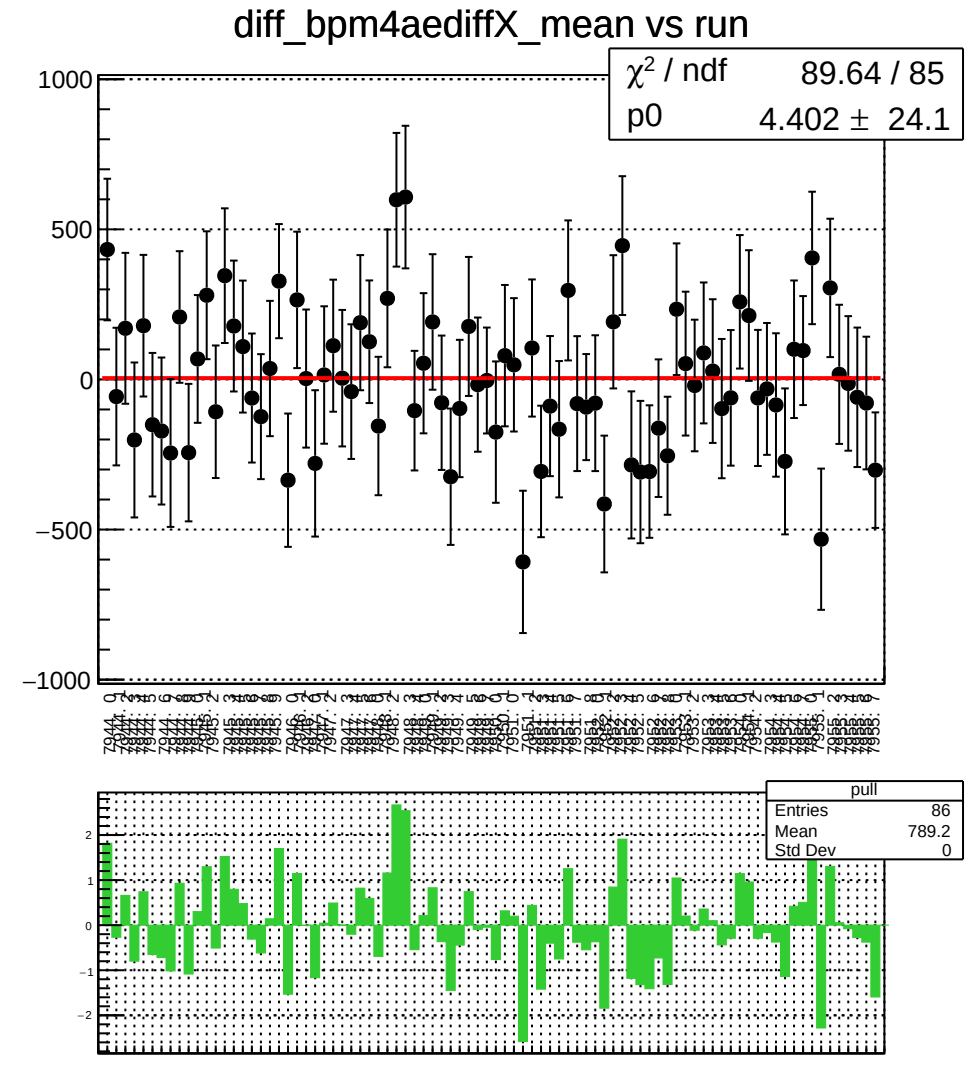

pull1D
Entries 86
Mean 0.005332
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

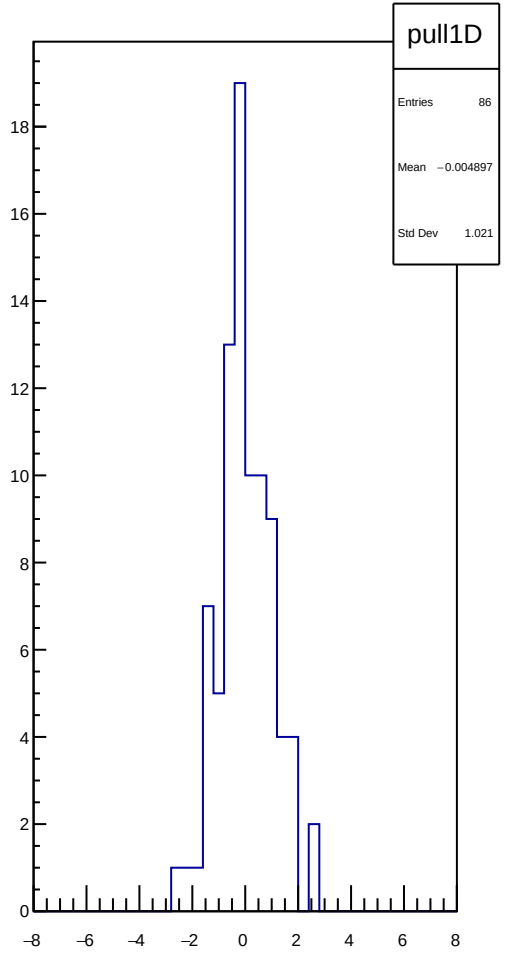

diff_bpmE_11X12X_rms vs run
χ² / ndf 3797 / 85
p0 3.297e+04 ± 25.94
38000
37000
36000
35000
34000
33000
32000
31000
30000

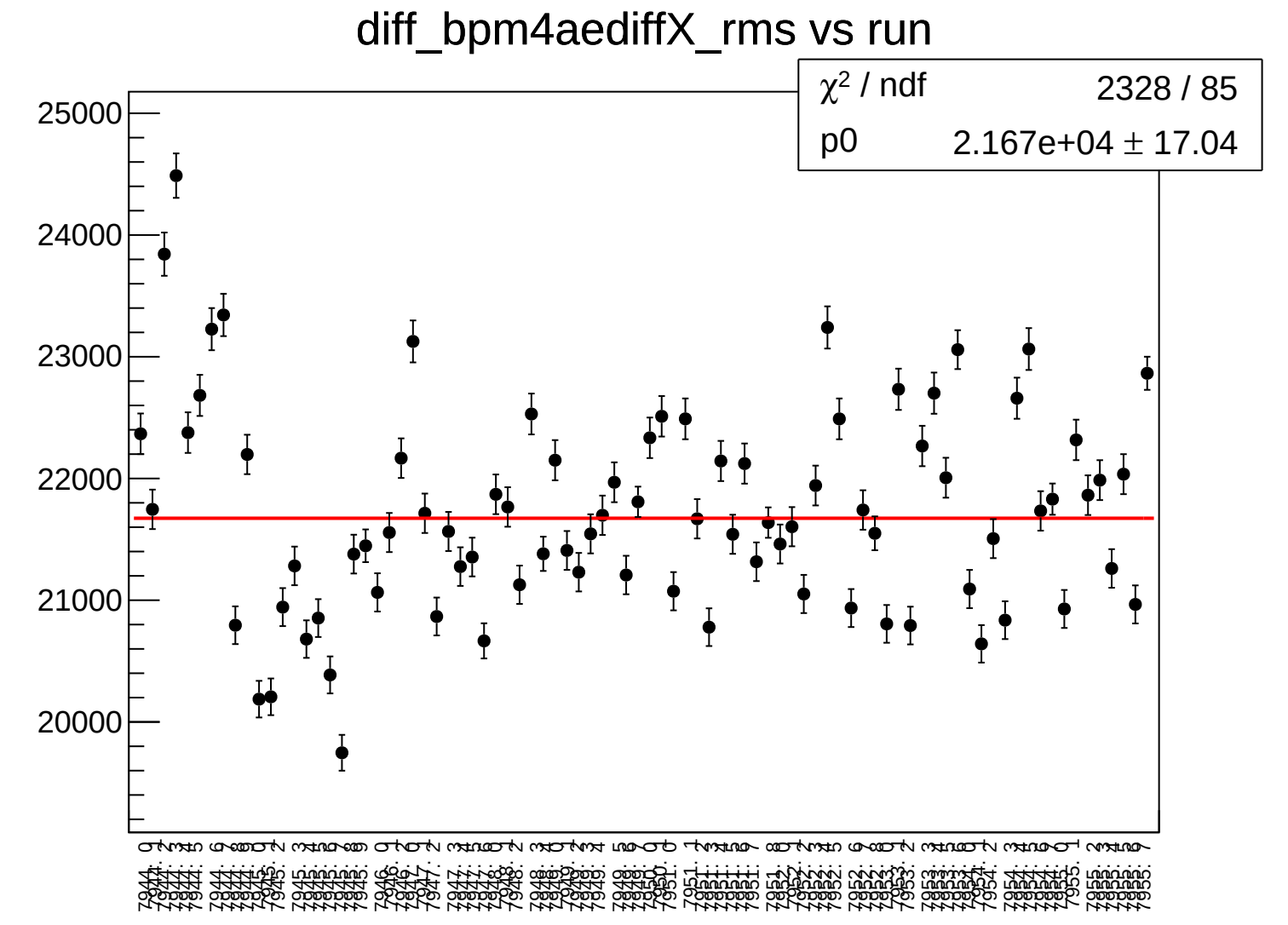

diff_bpm4aesumX_mean vs run
χ² / ndf 89.83 / 85
p0 −6.612 ± 34.13
1000
500
0
−500
−1000
pull
Entries 86
Mean 780.9
Std Dev 0
2
1
0
−1
−2

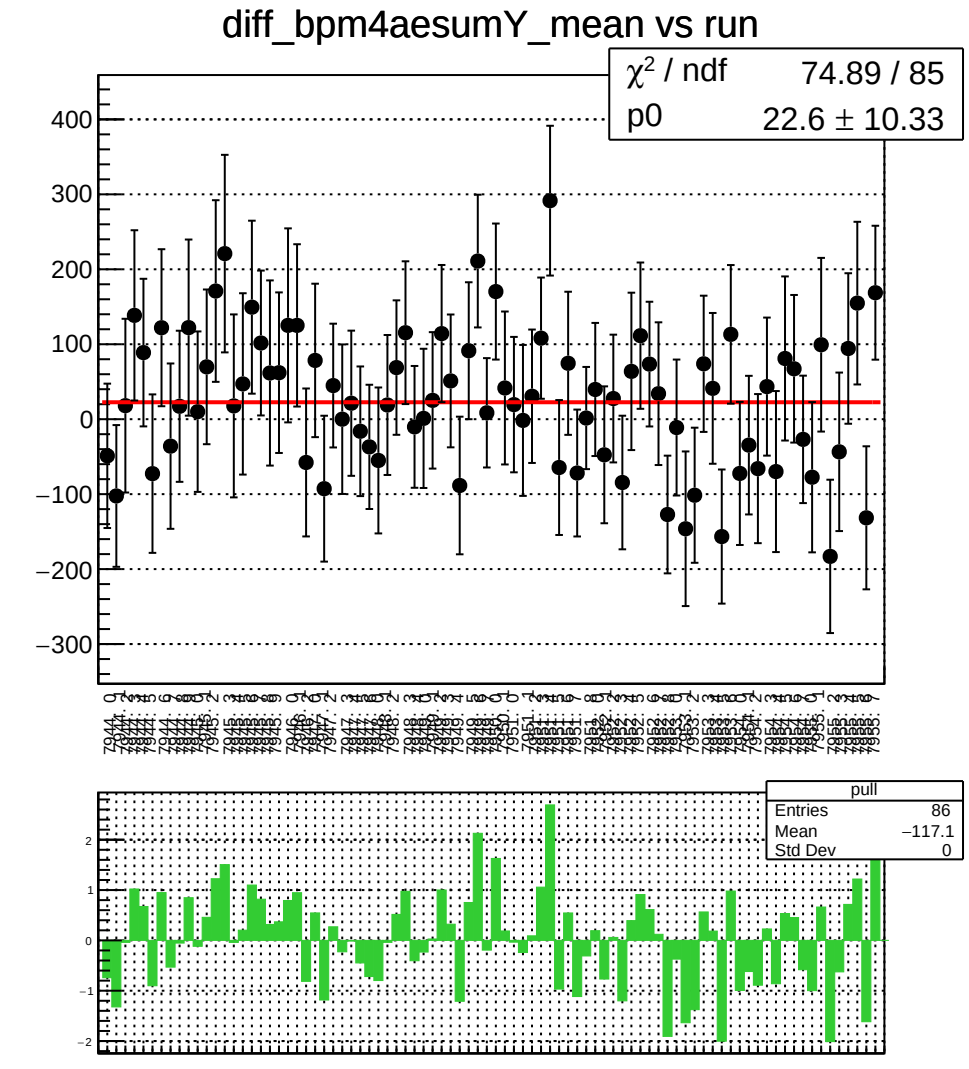

pull1D
Entries 86
Mean 0.004989
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

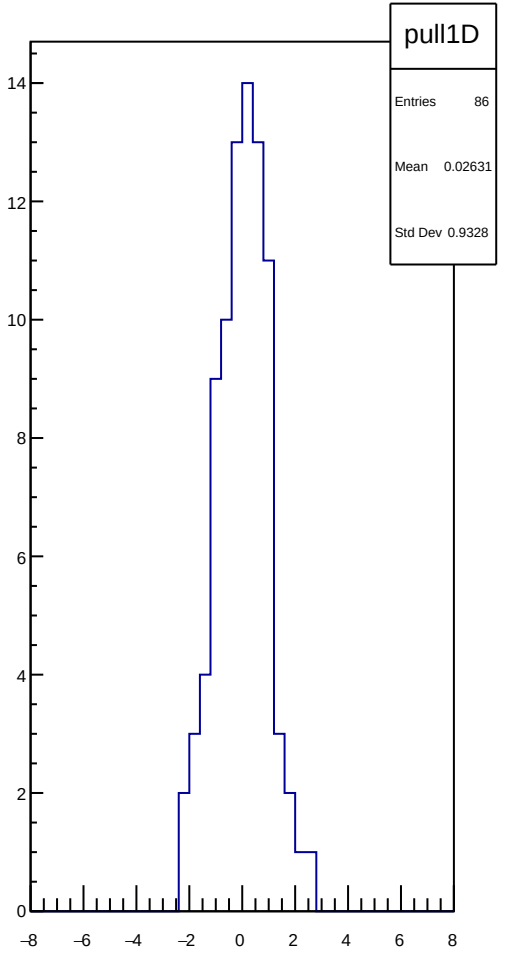

diff_bpm4aesumX_rms vs run
χ² / ndf 2337 / 85
p0 3.069e+04 ± 24.14
35000
34000
33000
32000
31000
30000
29000
28000

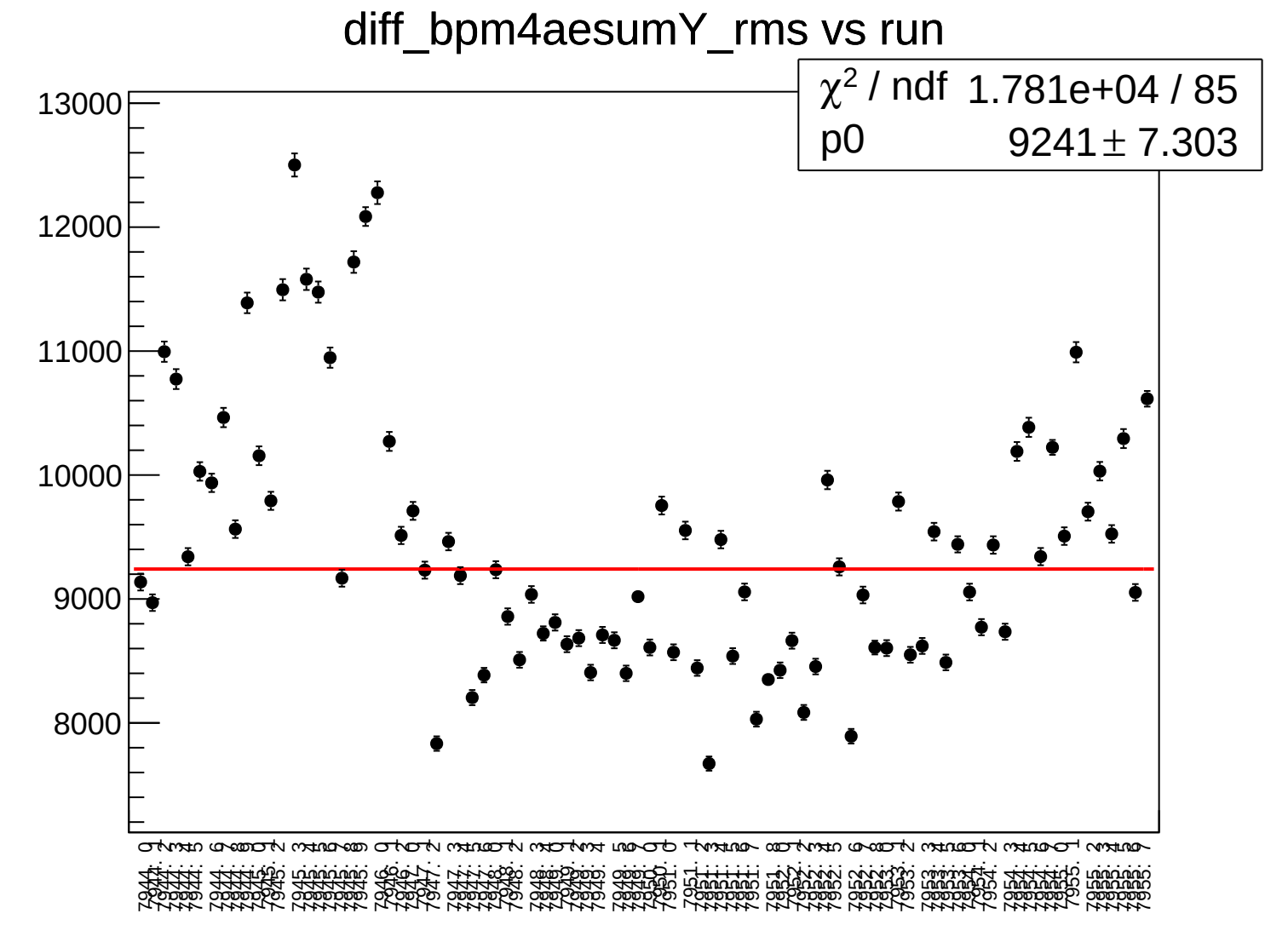

diff_bpm4aediffX_mean vs run
χ² / ndf 89.64 / 85
p0 4.402 ± 24.1
1000
500
0
−500
−1000
pull
Entries 86
Mean 789.2
Std Dev 0
2
1
0
−1
−2

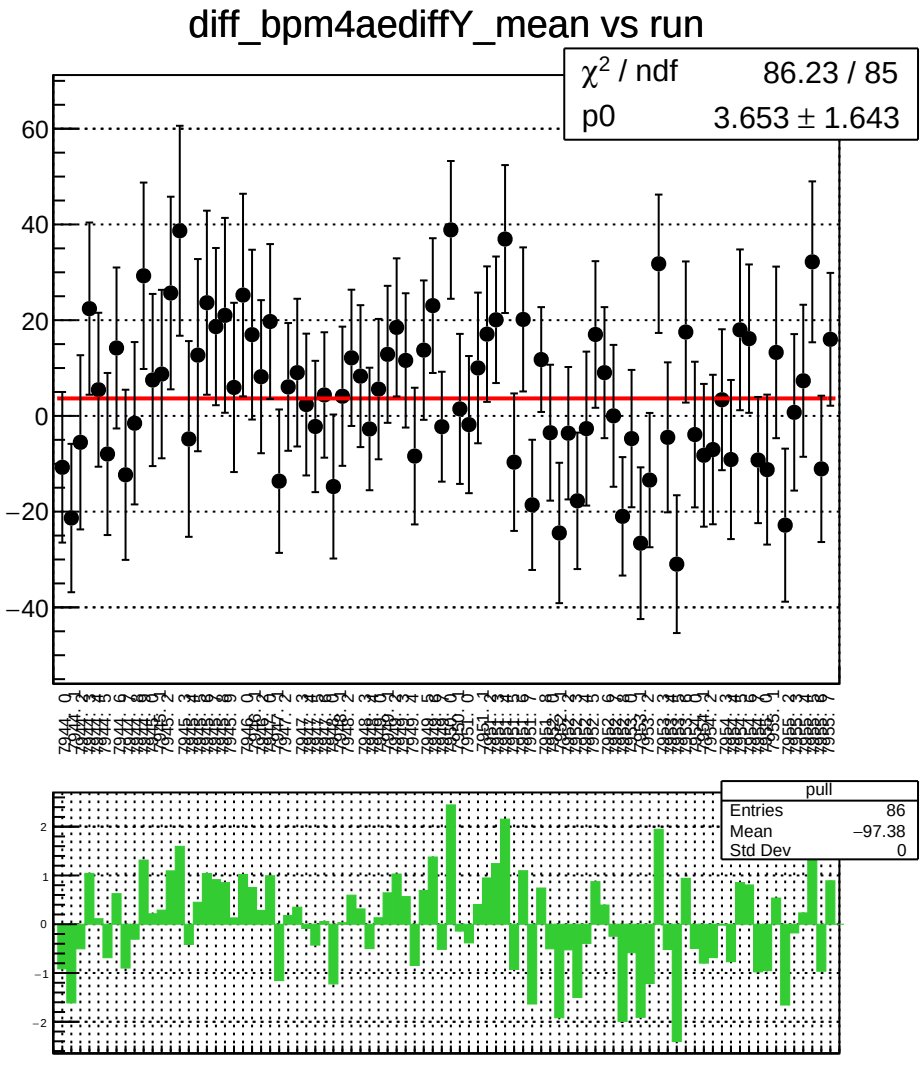

pull1D
Entries 86
Mean −0.004897
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

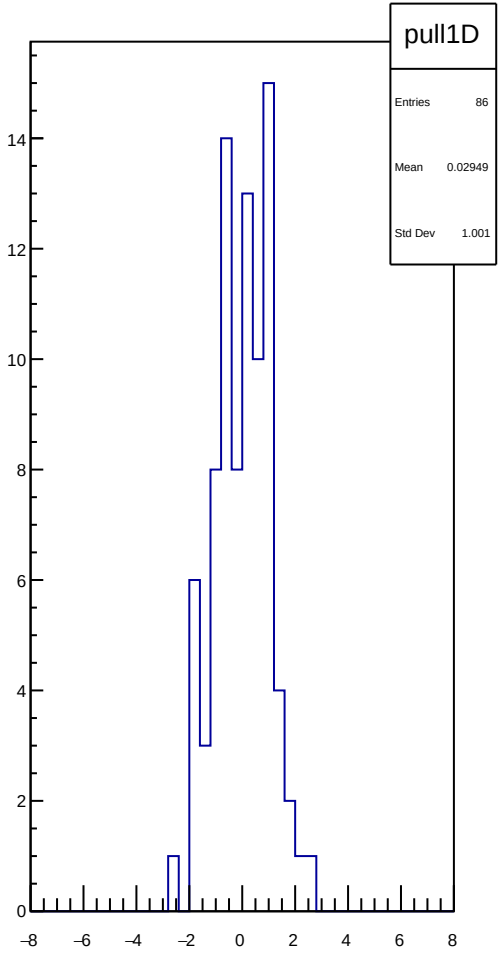

diff_bpm4aediffX_rms vs run
χ² / ndf 2328 / 85
p0 2.167e+04 ± 17.04
25000
24000
23000
22000
21000
20000

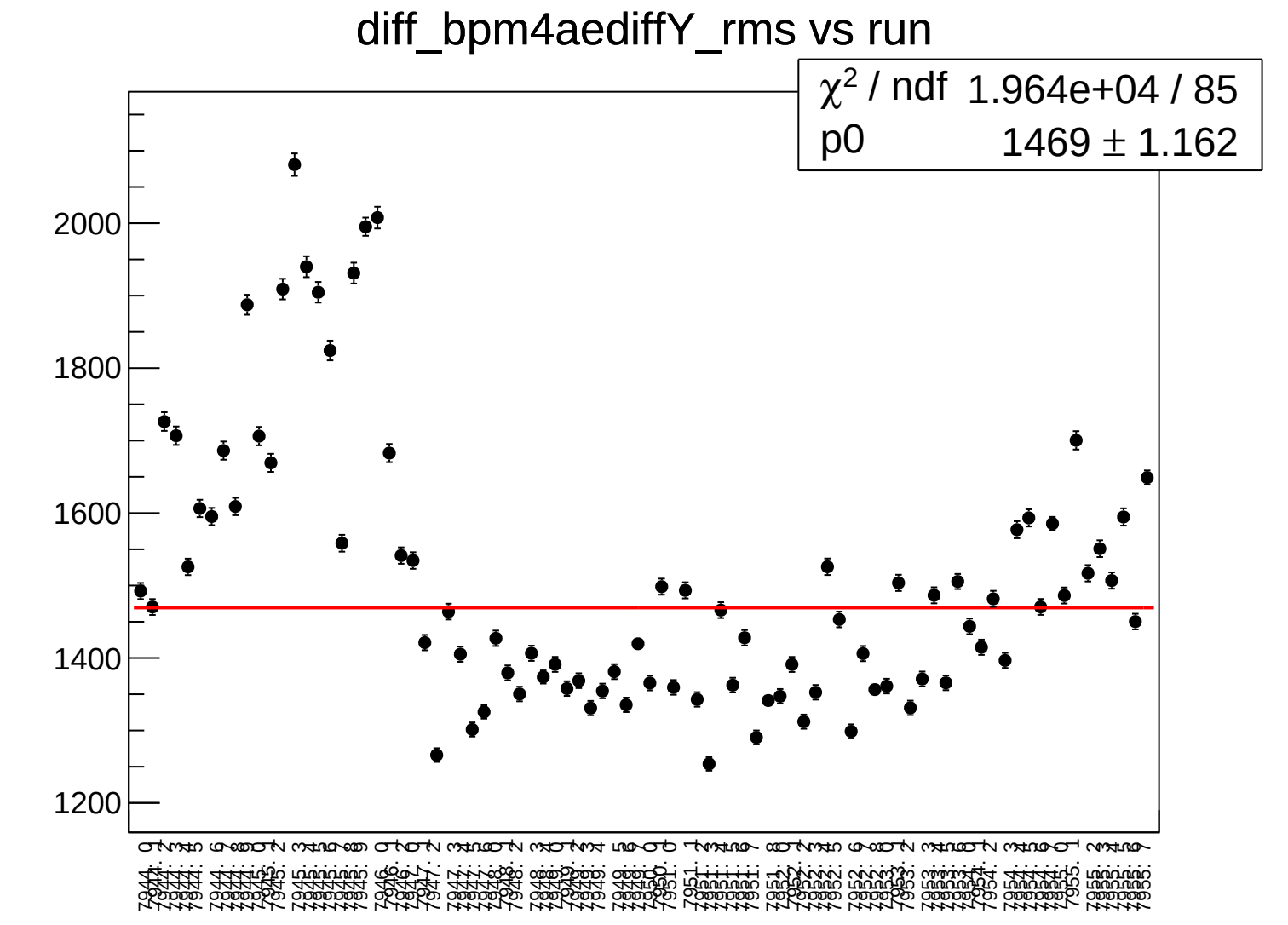

diff_bpm4aesumY_mean vs run
χ² / ndf 74.89 / 85
p0 22.6 ± 10.33
pull
Entries 86
Mean −117.1
Std Dev 0

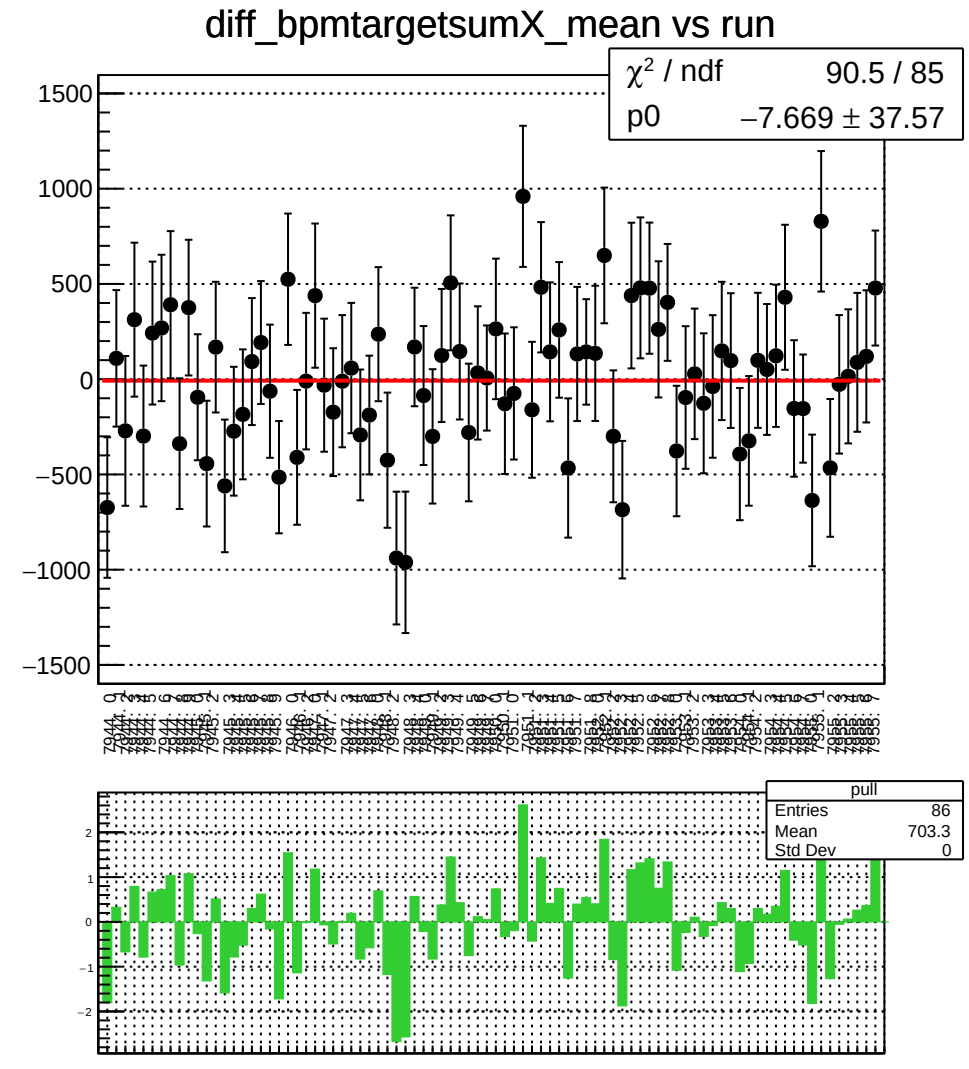

pull1D
Entries 86
Mean 0.02631
Std Dev 0.9328

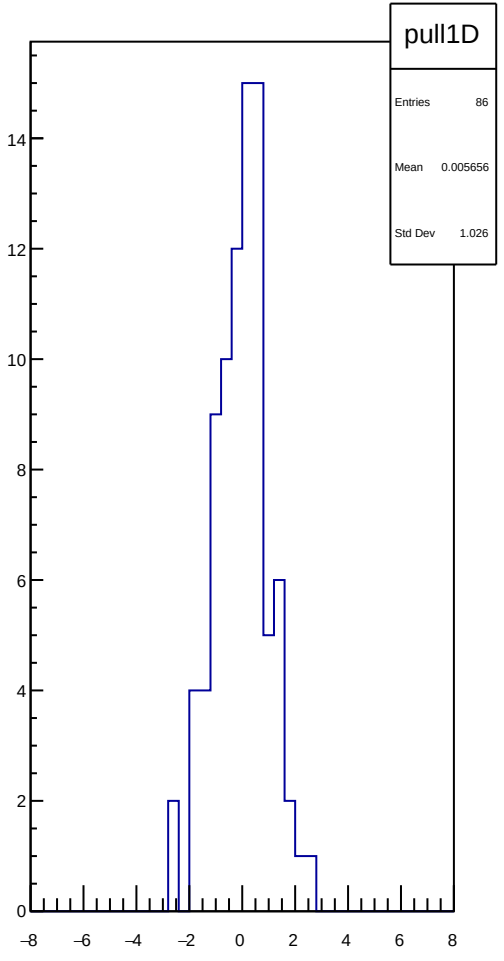

diff_bpm4aesumY_rms vs run
χ² / ndf 1.781e+04 / 85
p0 9241 ± 7.303
13000
12000
11000
10000
9000
8000

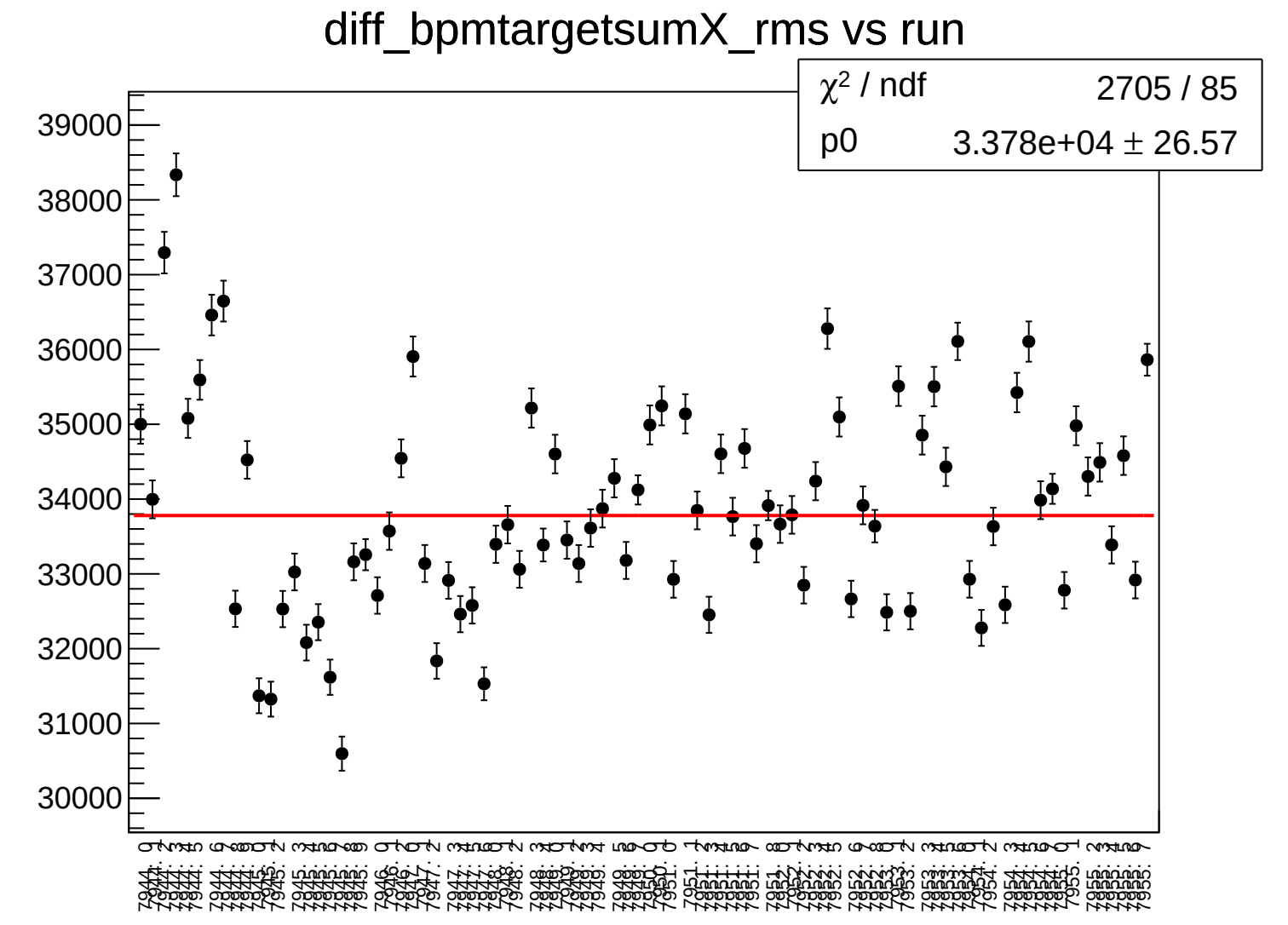

diff_bpm4aediffY_mean vs run
χ² / ndf 86.23 / 85
p0 3.653 ± 1.643
pull
Entries 86
Mean −97.38
Std Dev 0

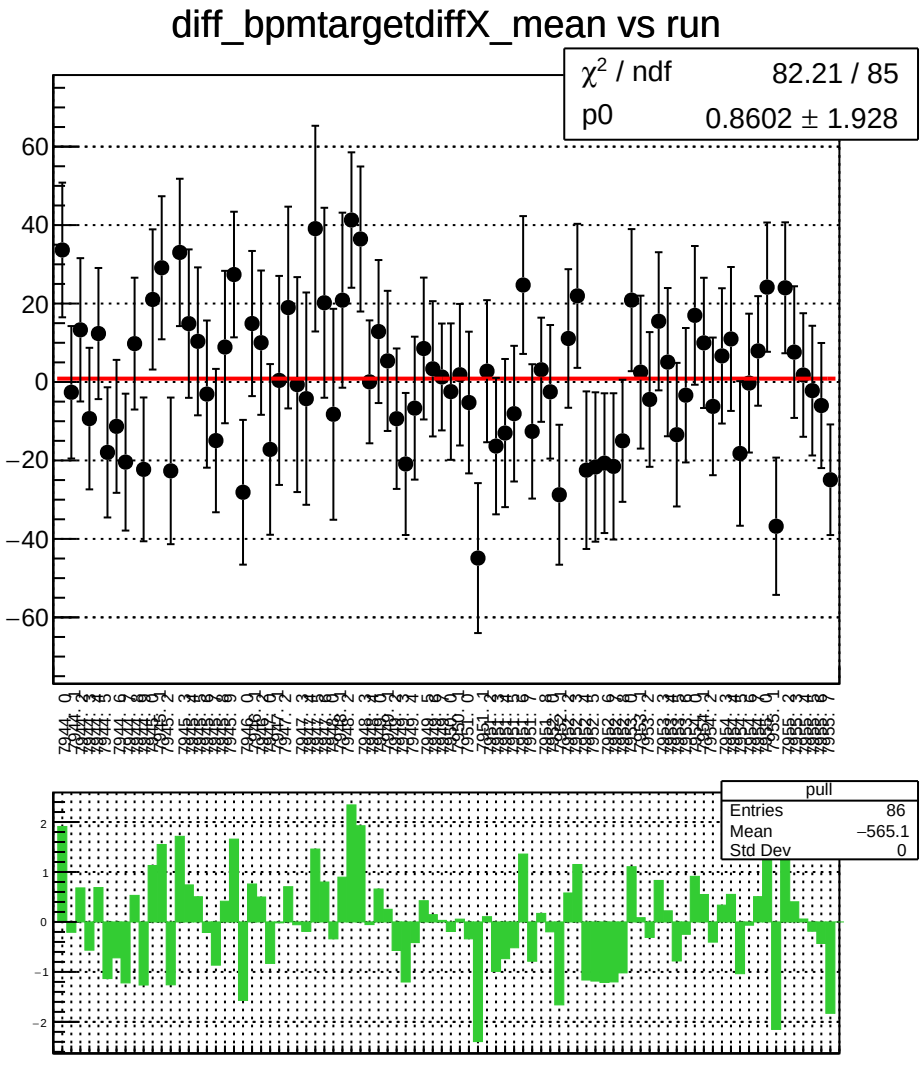

pull1D
Entries 86
Mean 0.02949
Std Dev 1.001

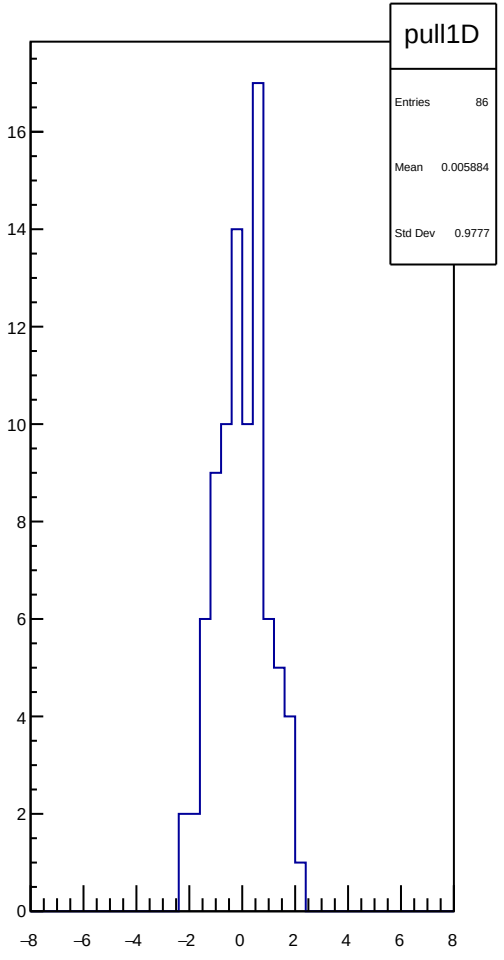

diff_bpm4aediffY_rms vs run
χ² / ndf 1.964e+04 / 85
p0 1469 ± 1.162
2000
1800
1600
1400
1200

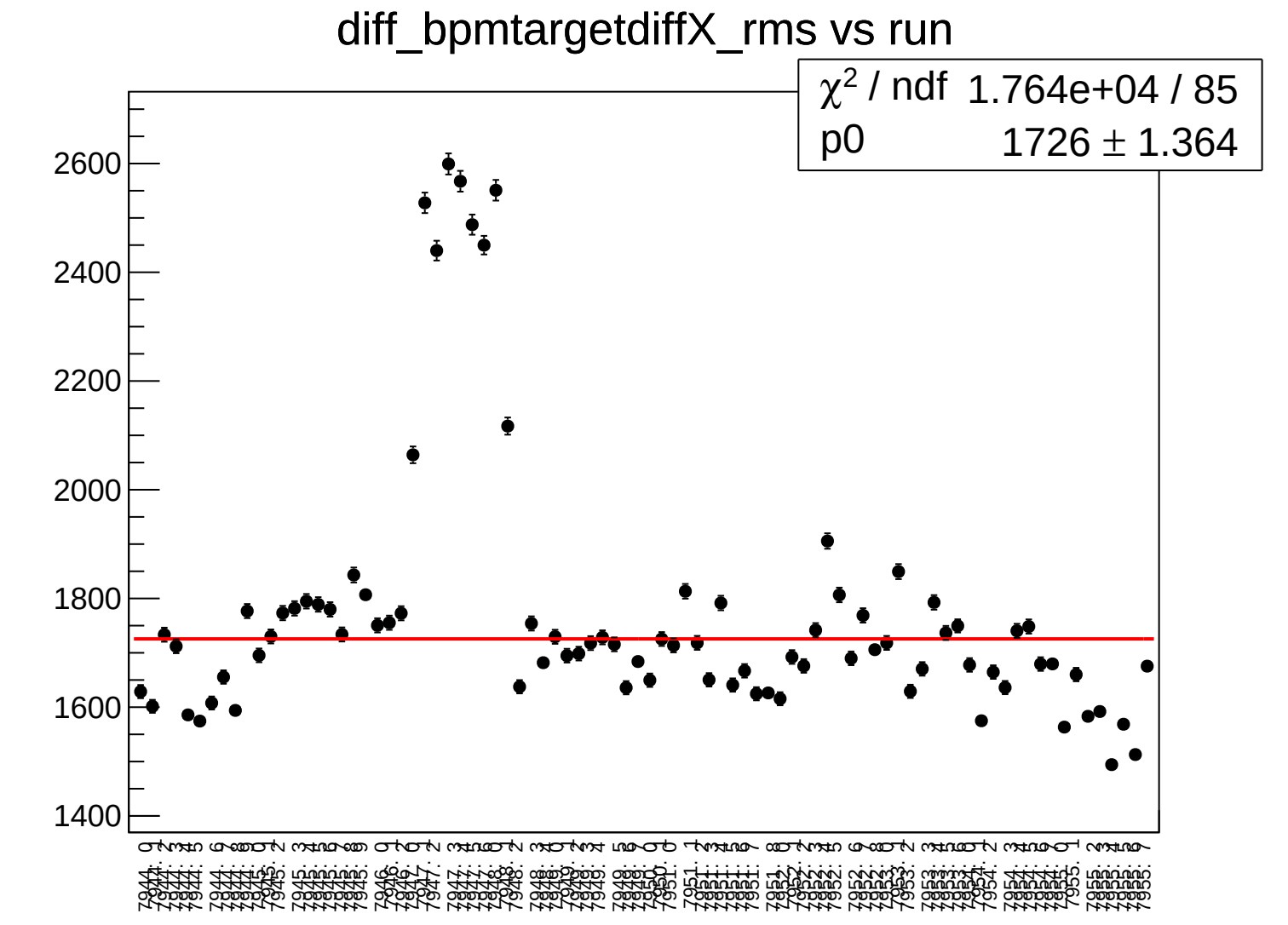

diff_bpmtargetsumX_mean vs run
χ² / ndf 90.5 / 85
p0 −7.669 ± 37.57
pull
Entries 86
Mean 703.3
Std Dev 0

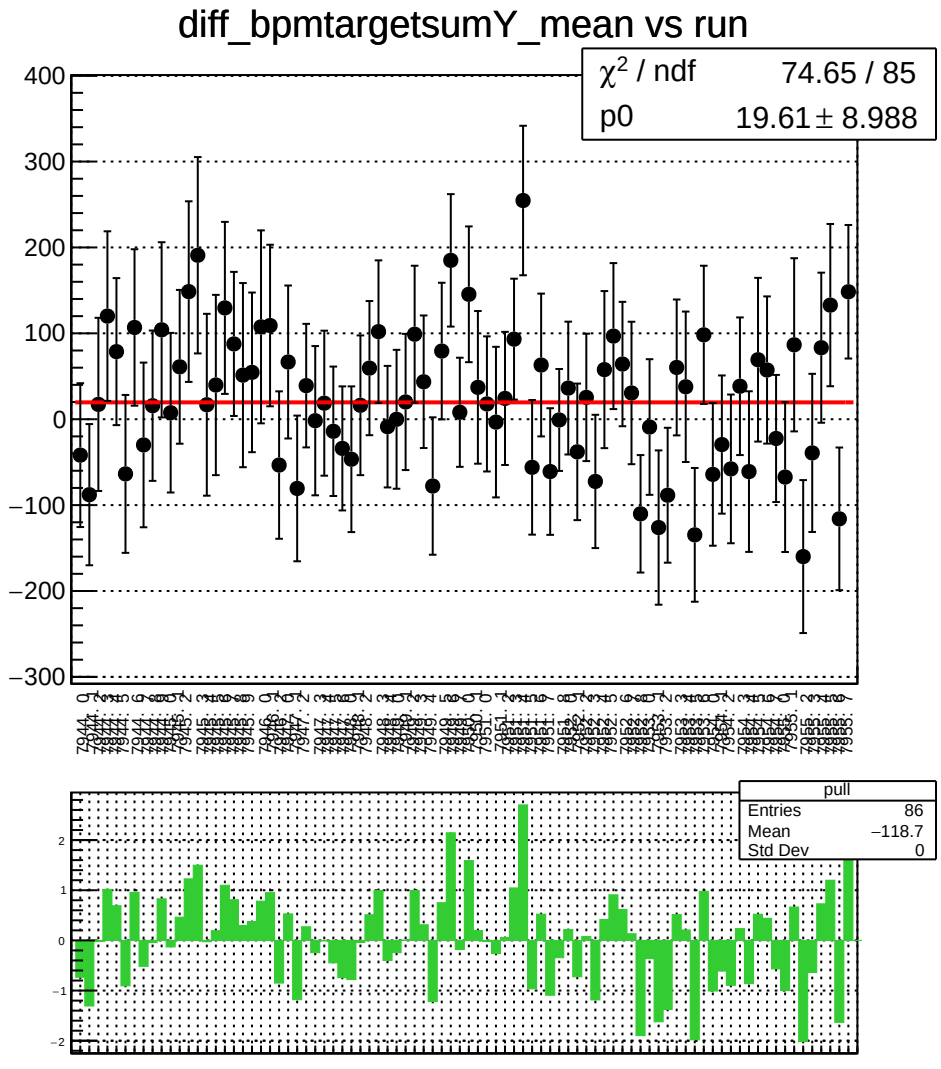

pull1D
Entries 86
Mean 0.005656
Std Dev 1.026

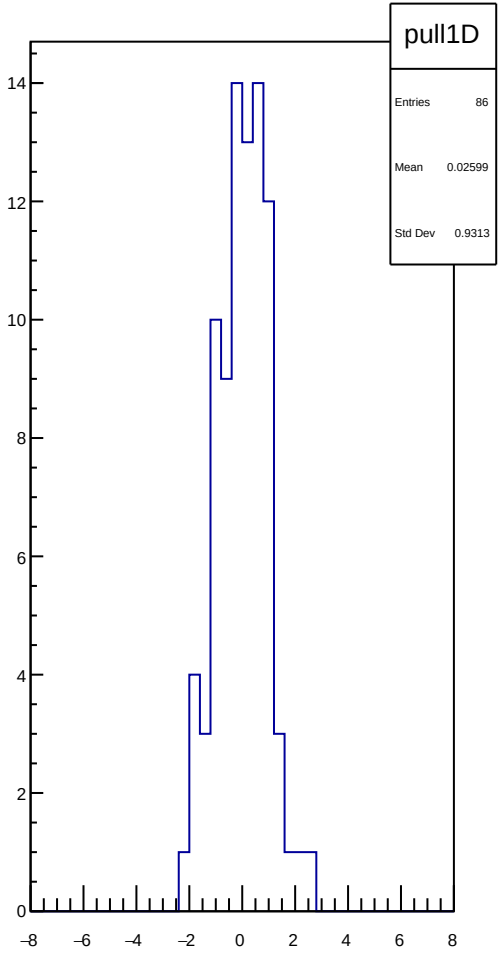

diff_bpmtargetsumX_rms vs run
χ² / ndf 2705 / 85
p0 3.378e+04 ± 26.57
39000
38000
37000
36000
35000
34000
33000
32000
31000
30000

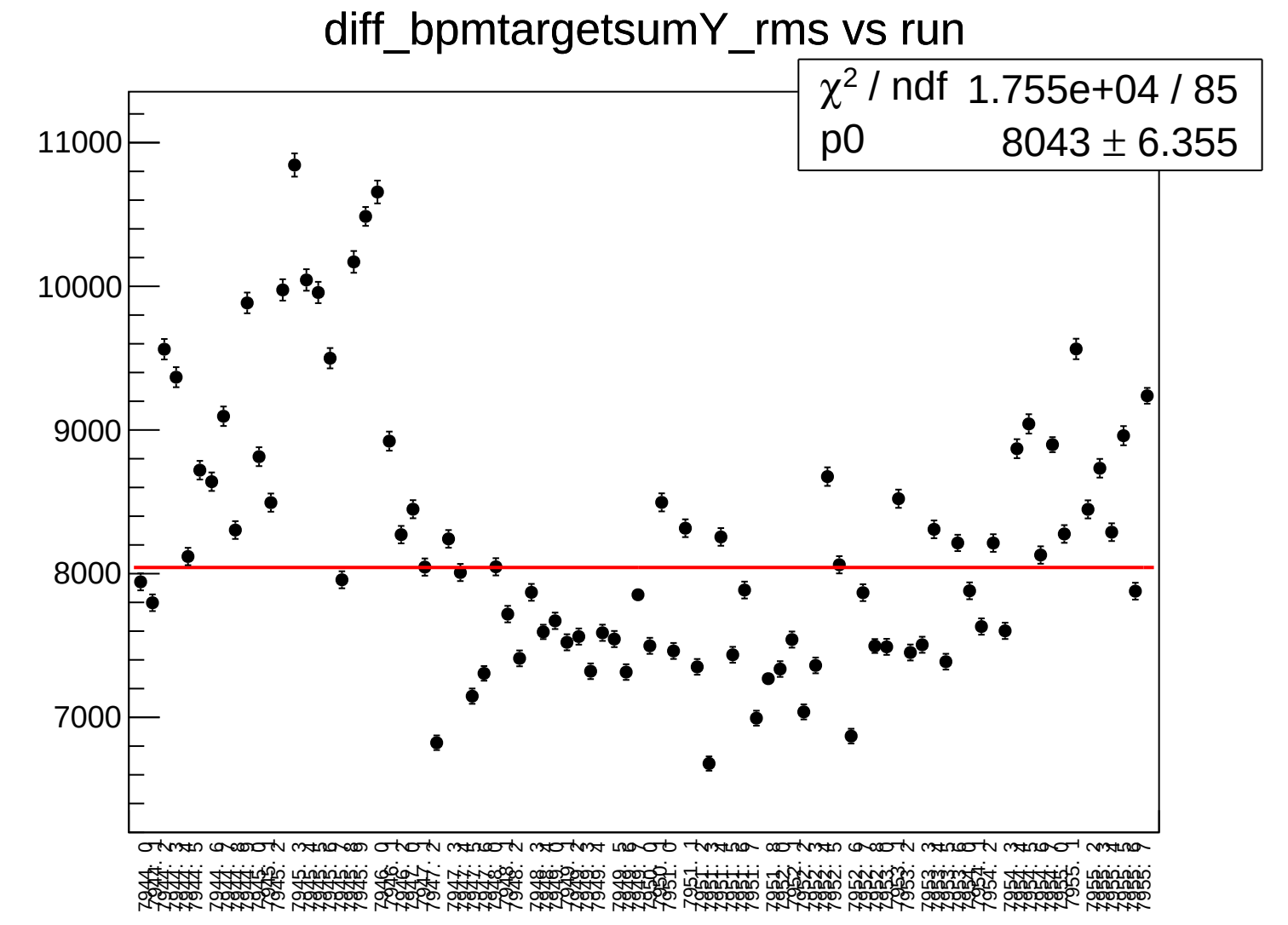

diff_bpmtargetdiffX_mean vs run
χ² / ndf 82.21 / 85
p0 0.8602 ± 1.928
pull
Entries 86
Mean −565.1
Std Dev 0

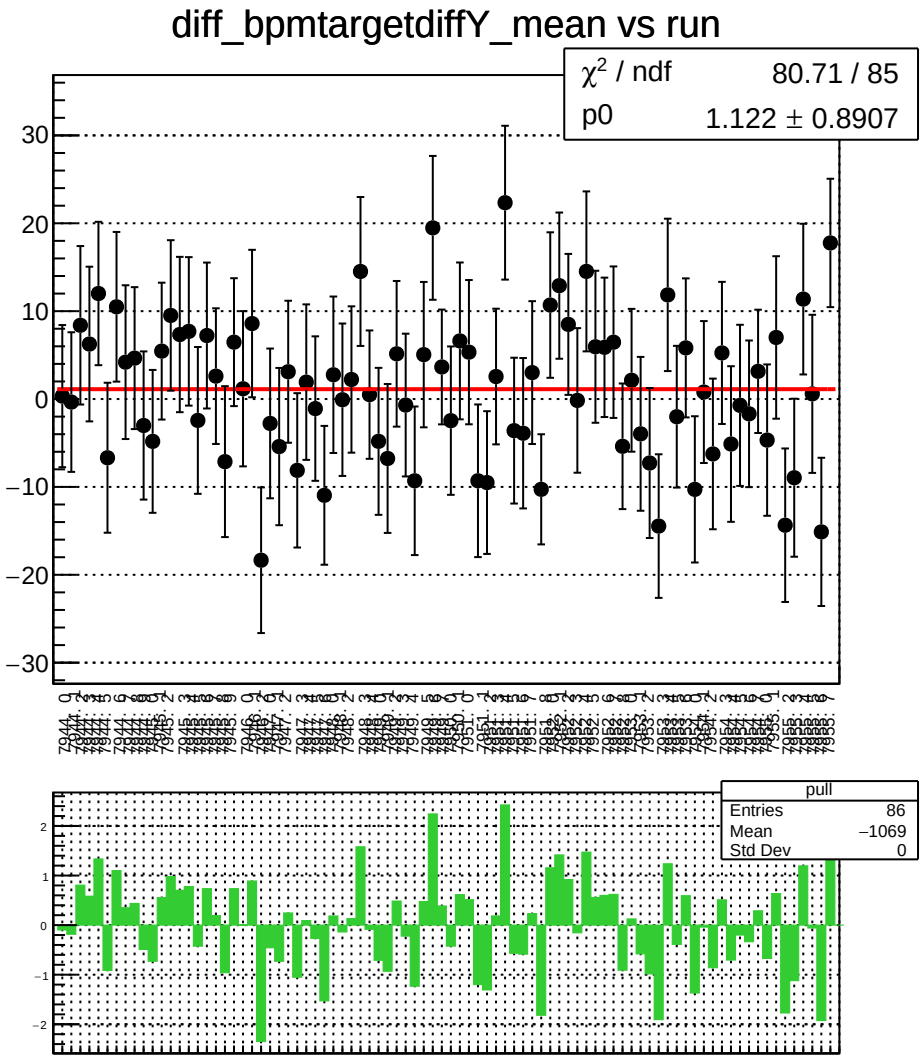

pull1D
Entries 86
Mean 0.005884
Std Dev 0.9777

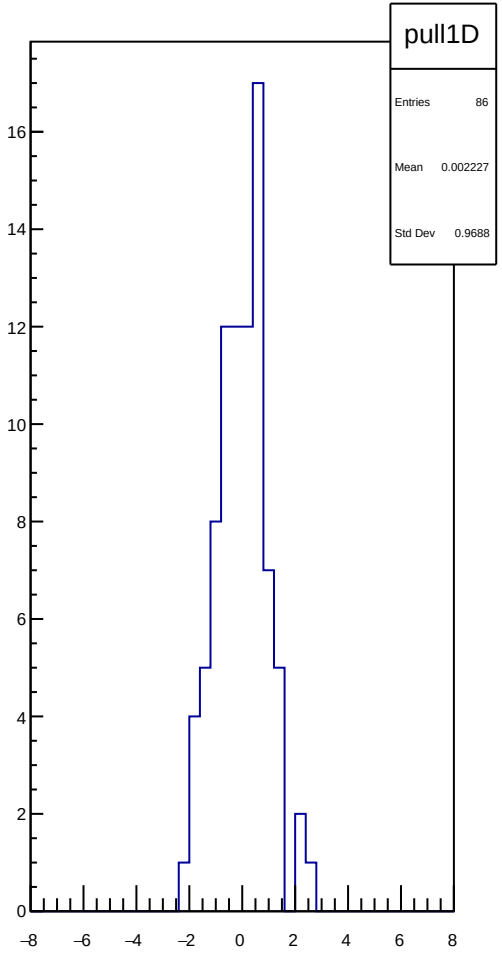

diff_bpmtargetdiffX_rms vs run
χ^2 / ndf 1.764e+04 / 85
p0 1726 ± 1.364
2600
2400
2200
2000
1800
1600
1400

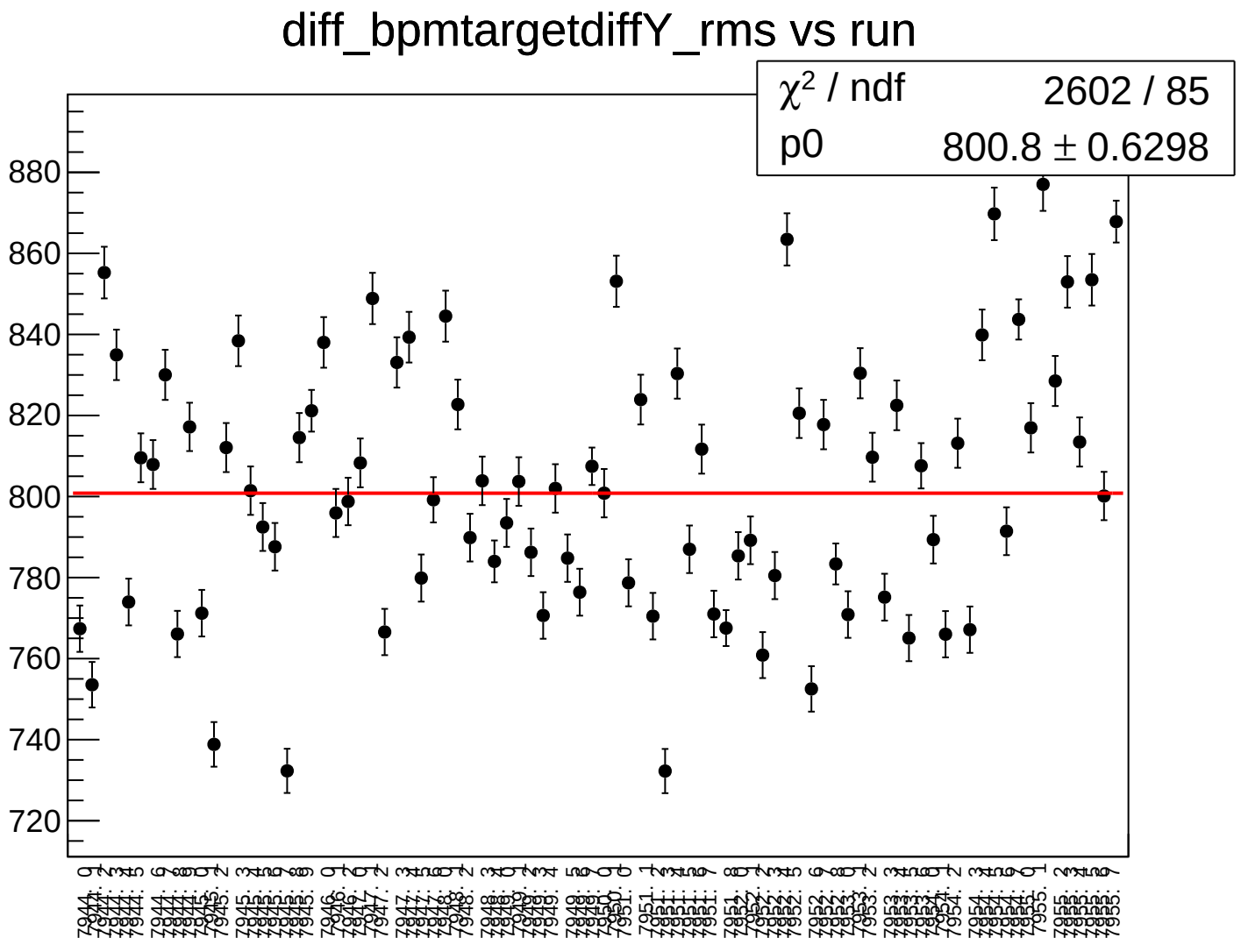

diff_bpmtargetsumY_mean vs run
χ^2 / ndf 74.65 / 85
p0 19.61 ± 8.988
pull
Entries 86
Mean −118.7
Std Dev 0

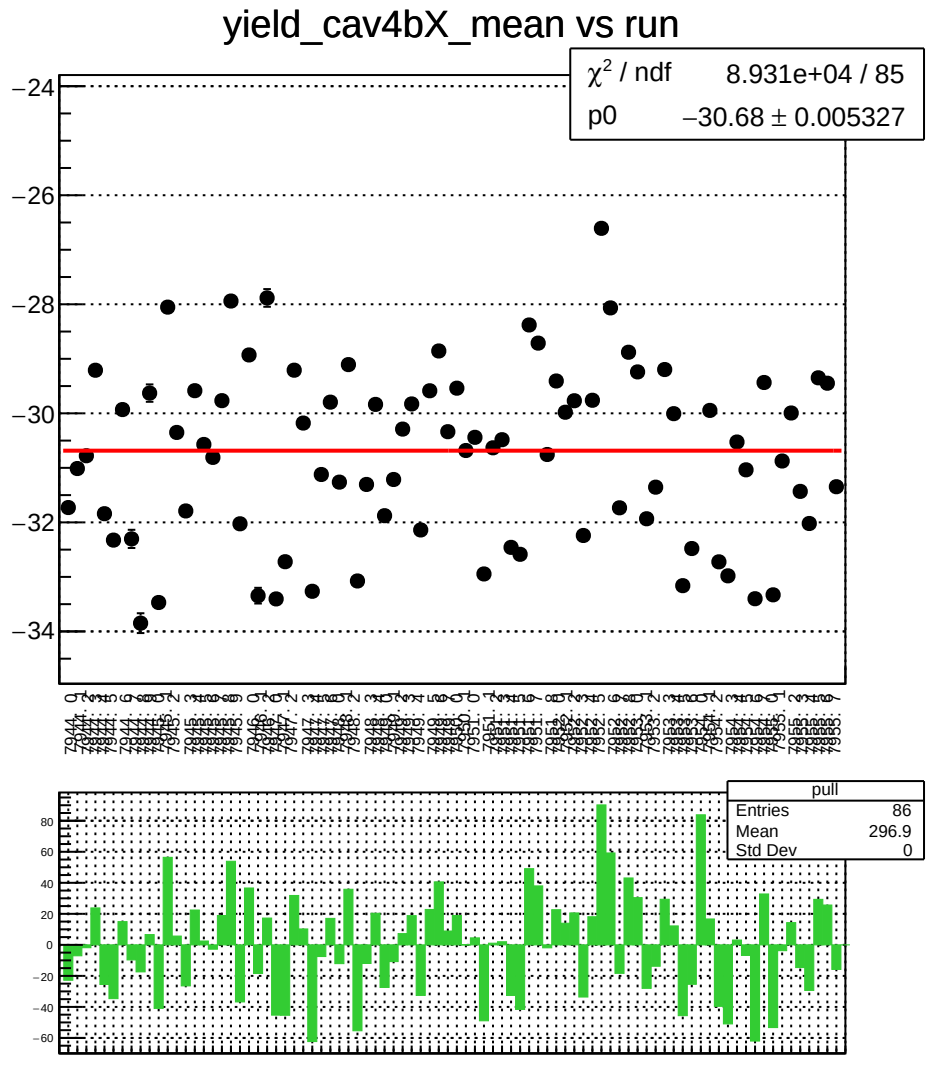

pull1D
Entries 86
Mean 0.02599
Std Dev 0.9313

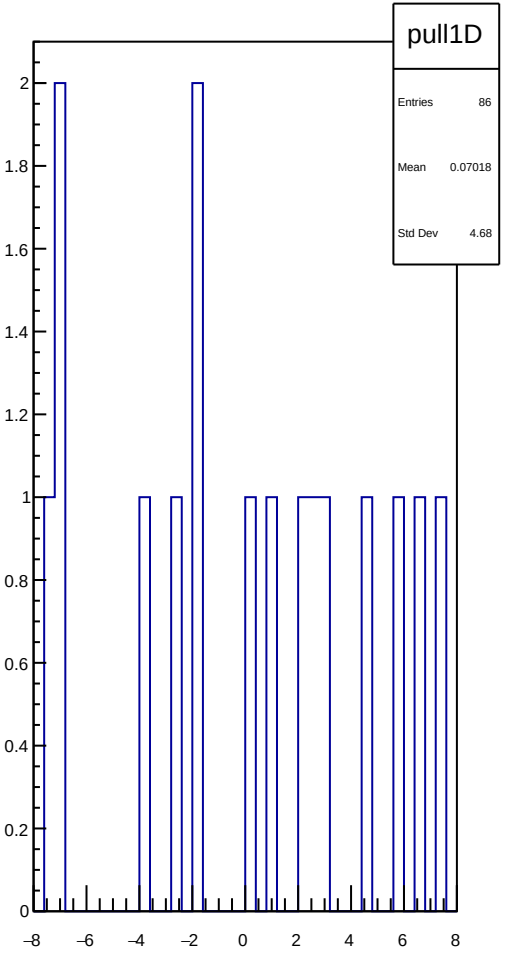

diff_bpmtargetsumY_rms vs run
χ² / ndf 1.755e+04 / 85
p0 8043 ± 6.355
11000
10000
9000
8000
7000

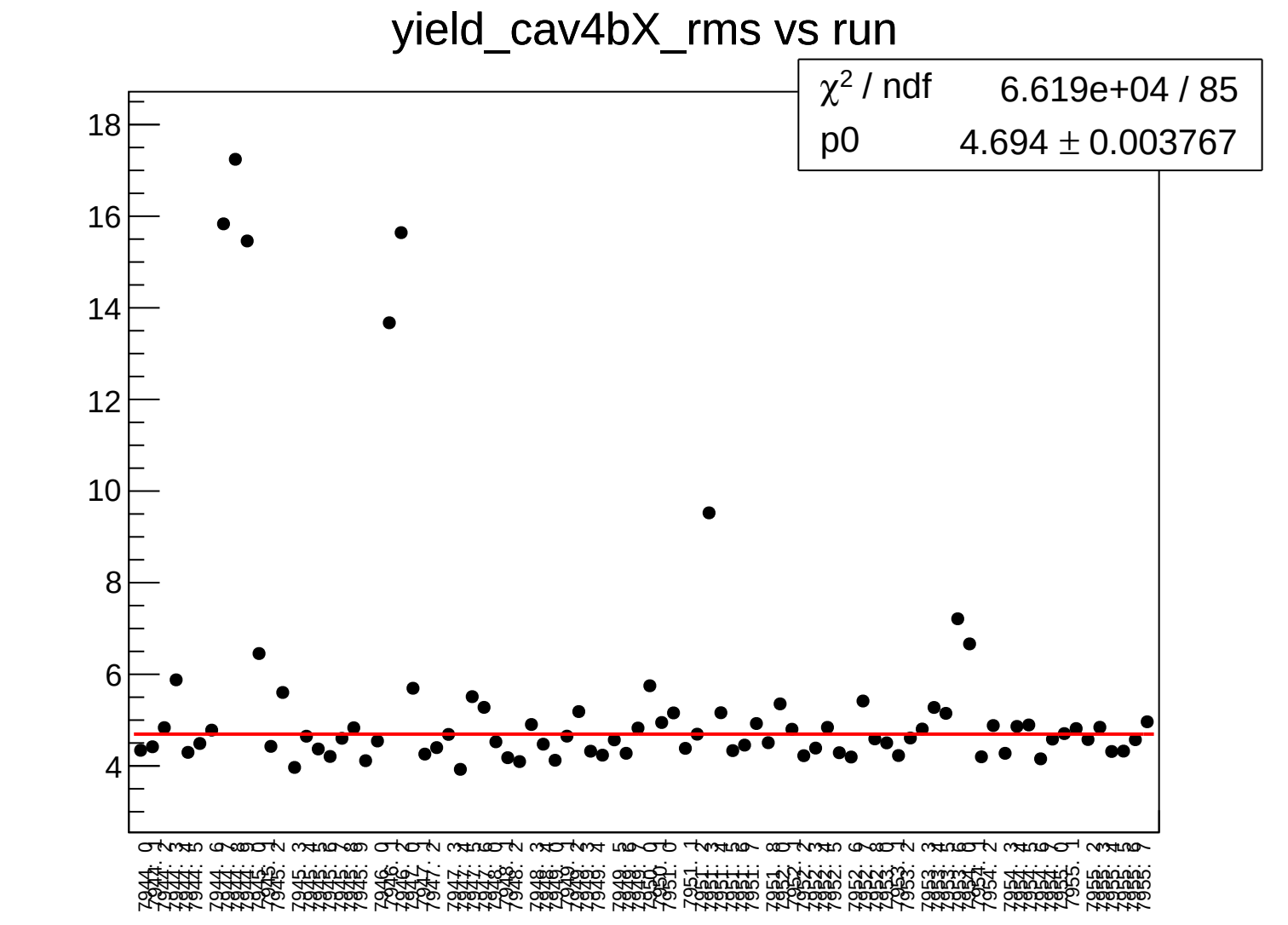

diff_bpmtargetdiffY_mean vs run
χ² / ndf 80.71 / 85
p0 1.122 ± 0.8907
pull
Entries 86
Mean −1069
Std Dev 0

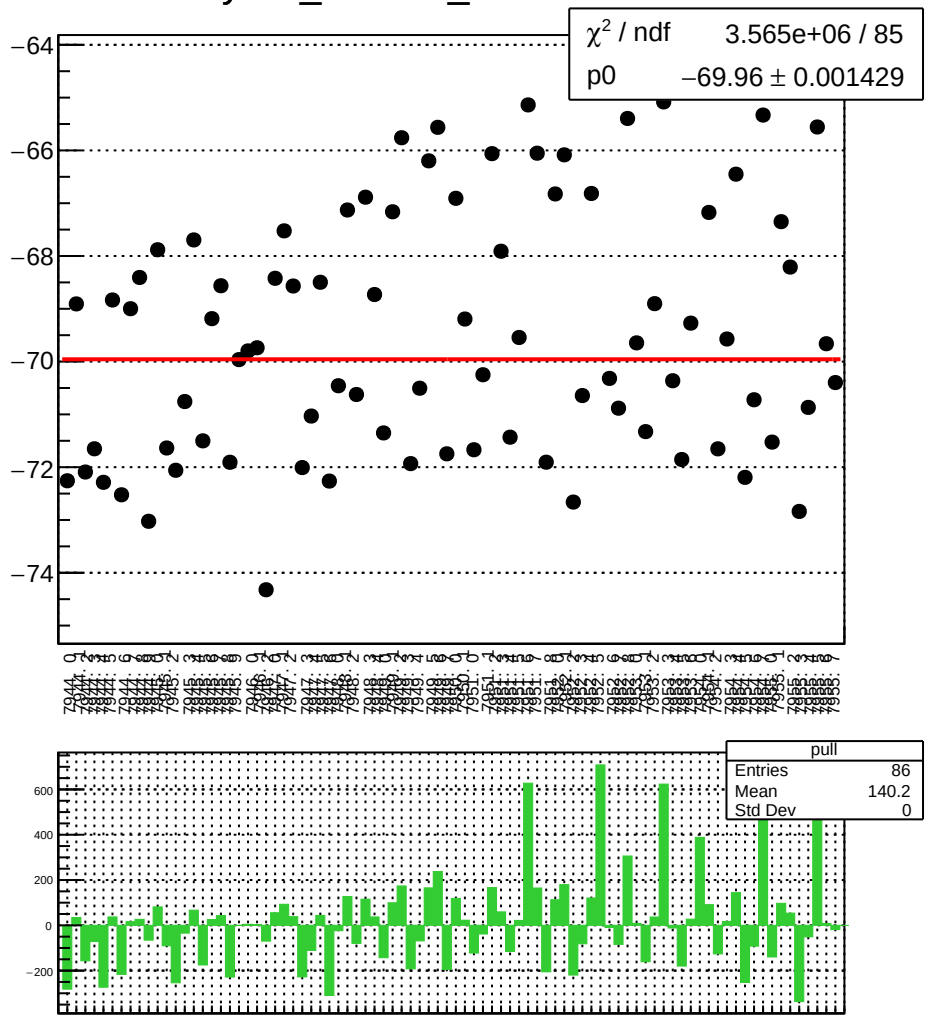

pull1D
Entries 86
Mean 0.002227
Std Dev 0.9688

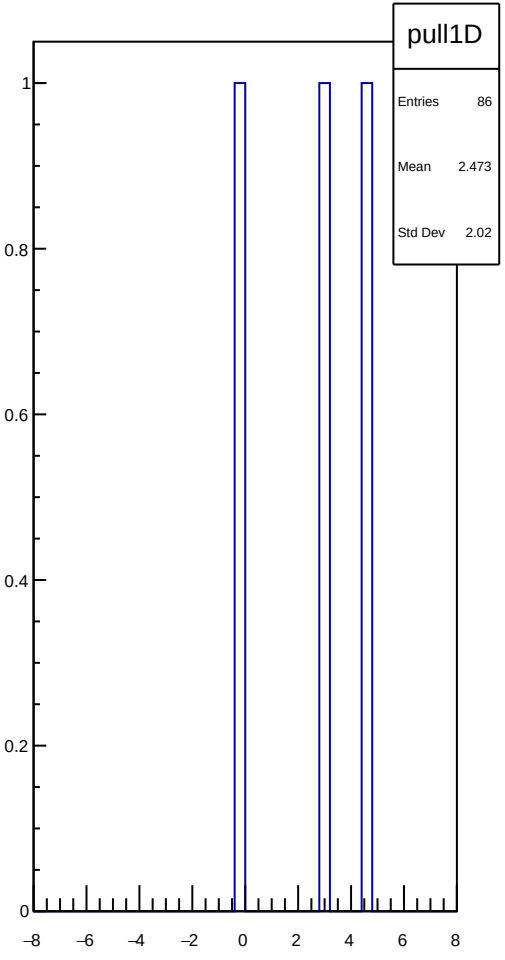

diff_bpmtargetdiffY_rms vs run
χ² / ndf 2602 / 85
p0 800.8 ± 0.6298
880
860
840
820
800
780
760
740
720

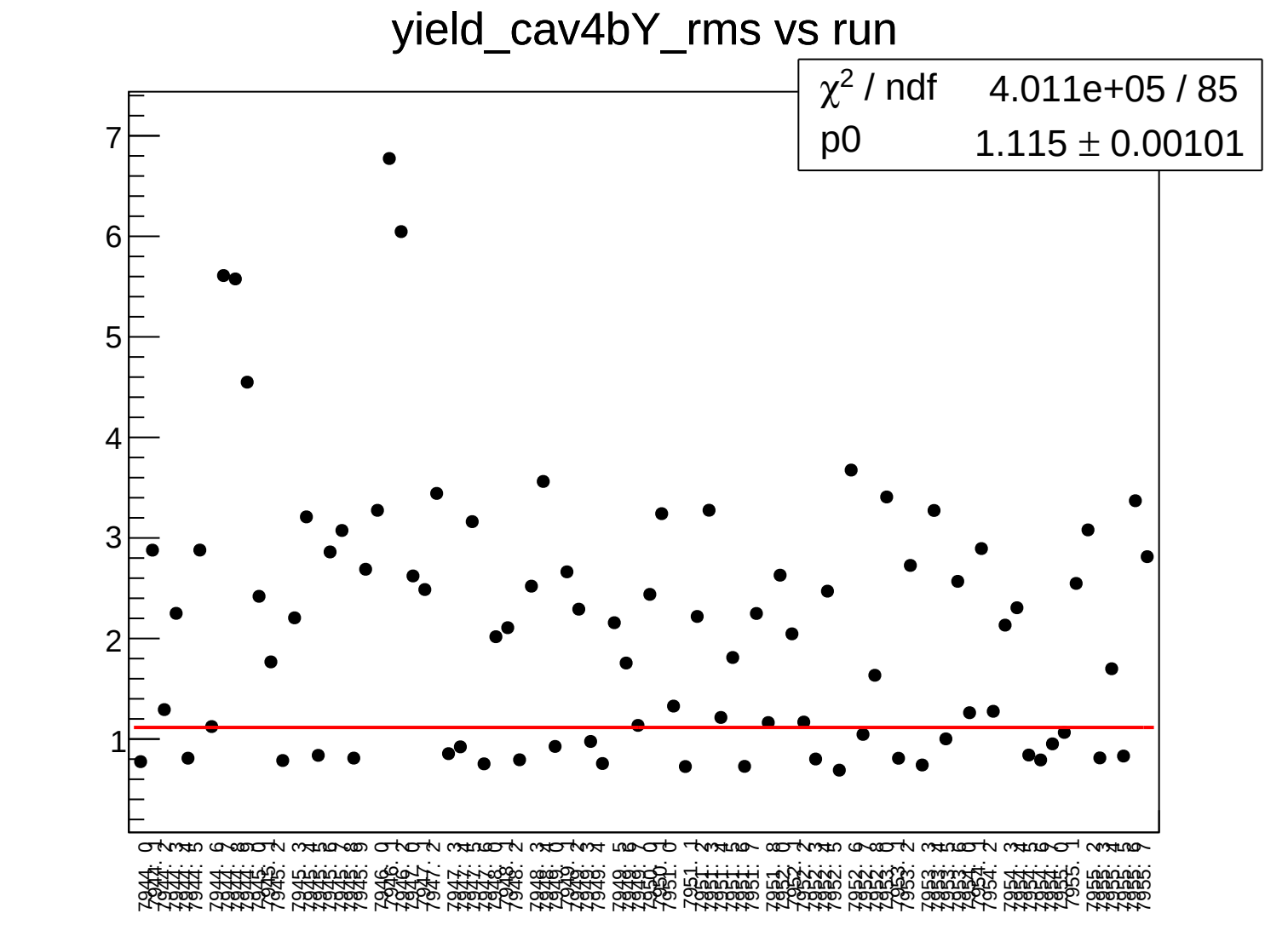

yield_cav4bX_mean vs run
χ² / ndf 8.931e+04 / 85
p0 −30.68 ± 0.005327
pull
Entries 86
Mean 296.9
Std Dev 0

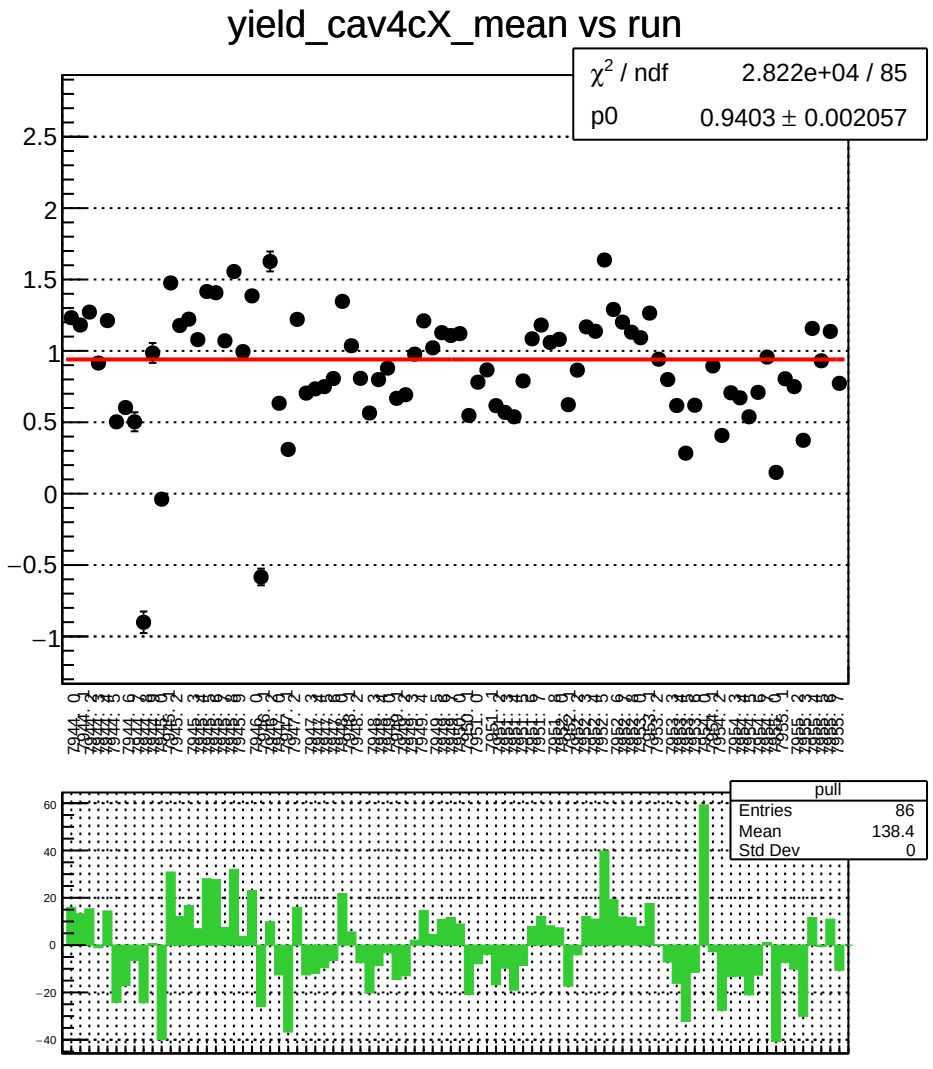

pull1D
Entries 86
Mean 0.07018
Std Dev 4.68

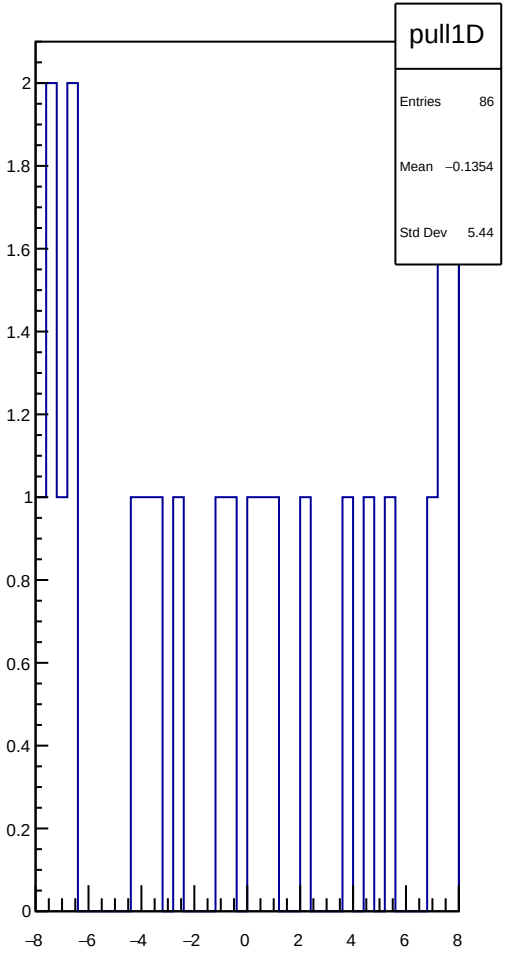

yield_cav4bX_rms vs run
χ^2 / ndf 6.619e+04 / 85
p0 4.694 ± 0.003767
18
16
14
12
10
8
6
4

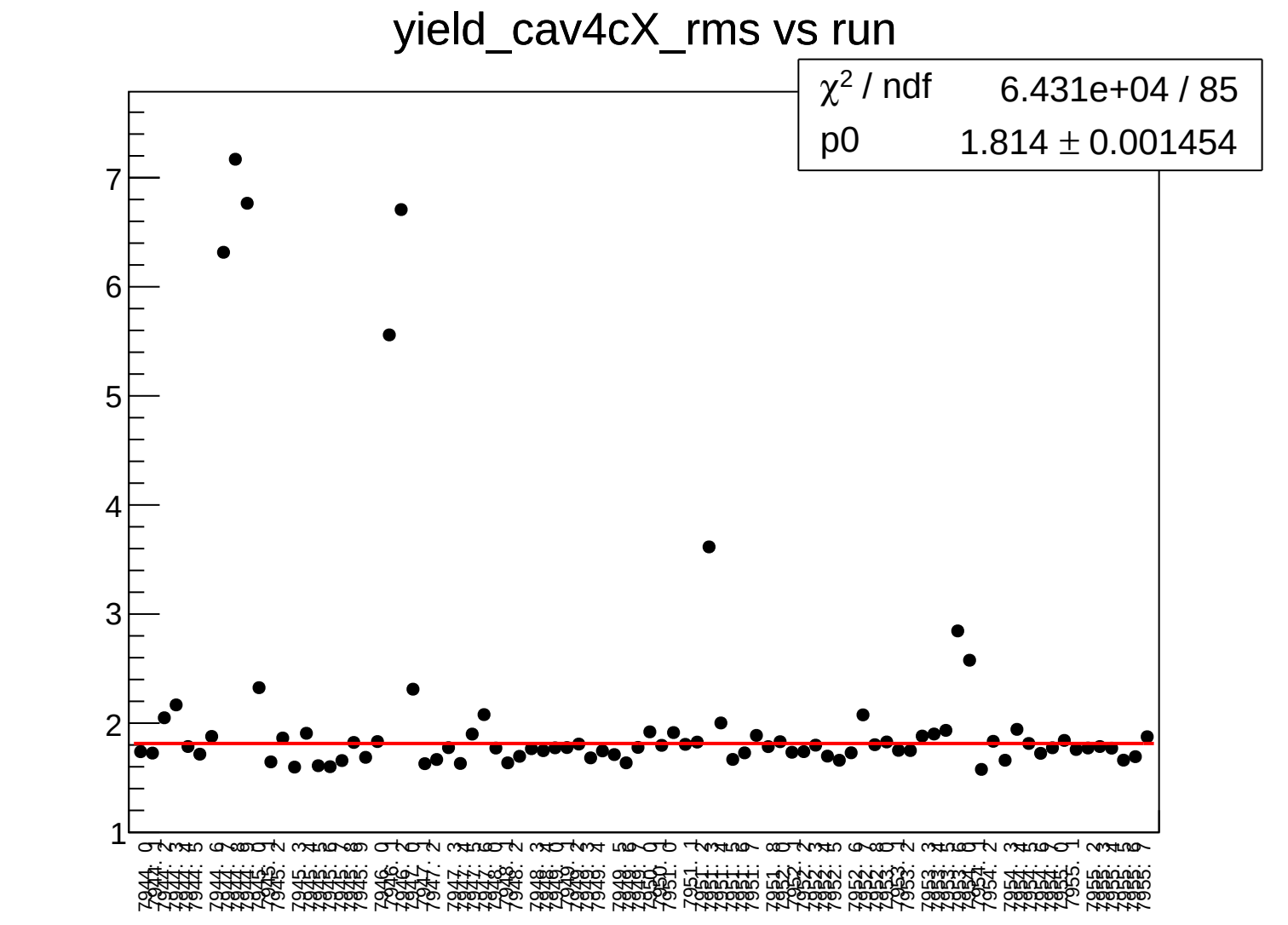

yield_cav4bY_mean vs run
χ² / ndf 3.565e+06 / 85
p0 −69.96 ± 0.001429
−64
−66
−68
−70
−72
−74
pull
Entries 86
Mean 140.2
Std Dev 0
600
400
200
0
−200

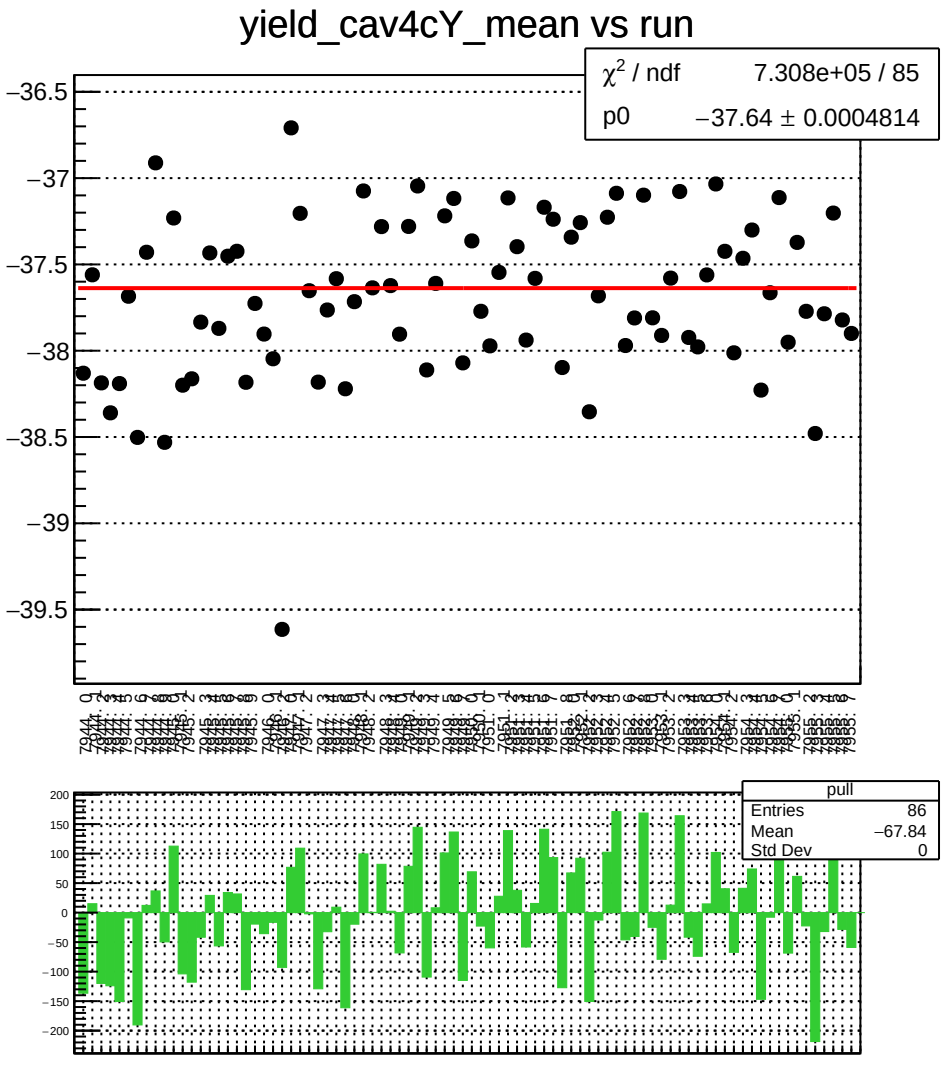

pull1D
Entries 86
Mean 2.473
Std Dev 2.02
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

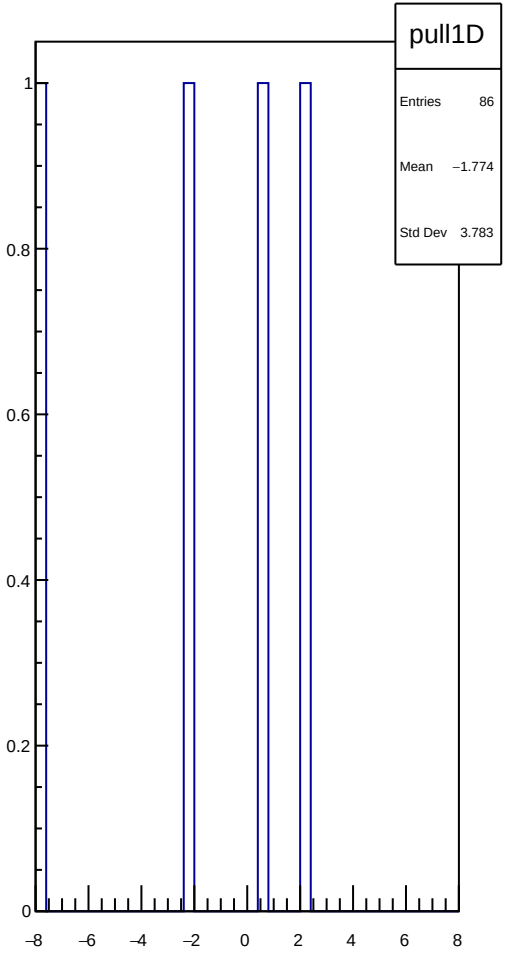

yield_cav4bY_rms vs run
χ^2 / ndf 4.011e+05 / 85
p0 1.115 ± 0.00101
7
6
5
4
3
2
1

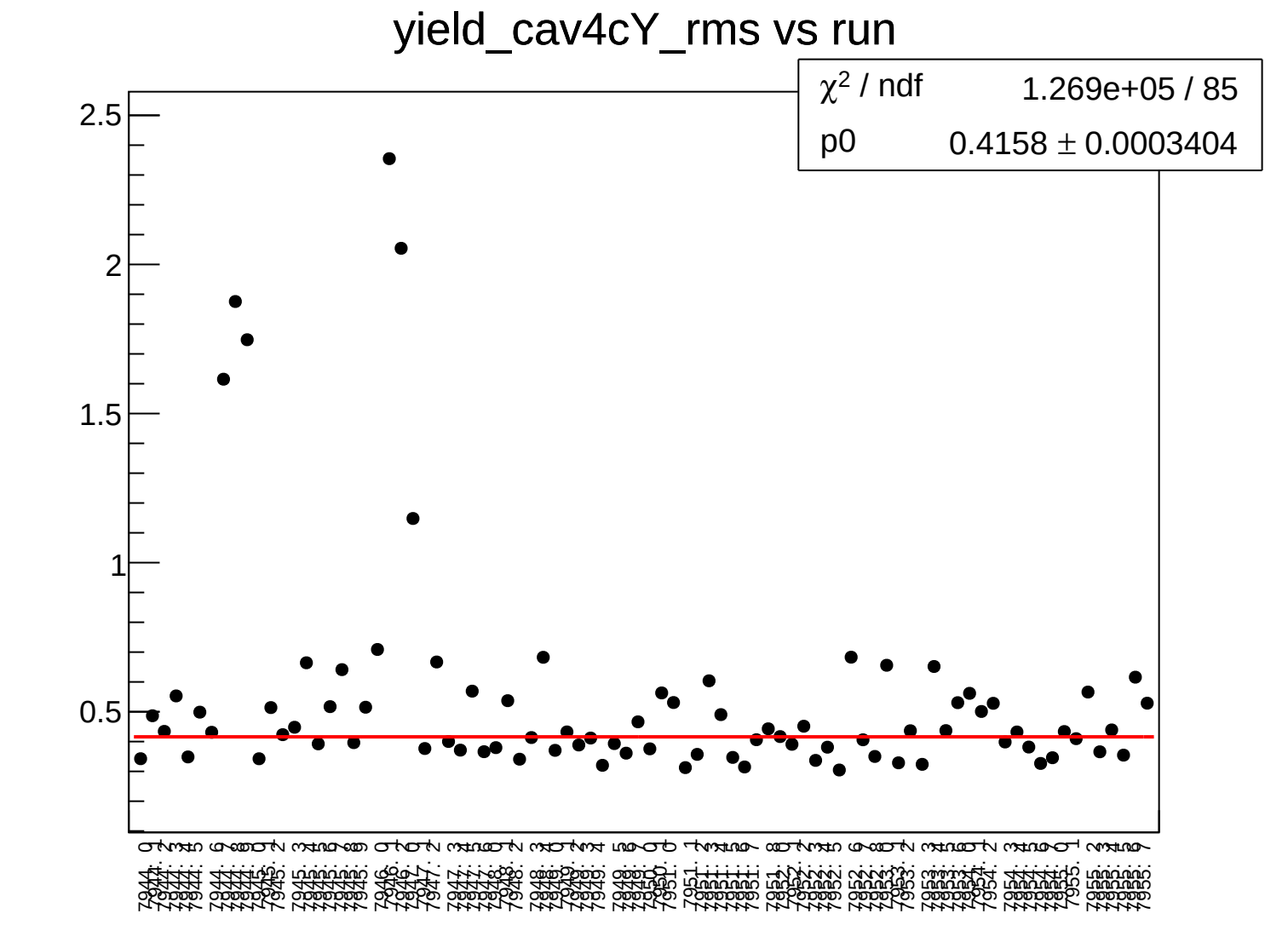

yield_cav4cX_mean vs run
χ² / ndf 2.822e+04 / 85
p0 0.9403 ± 0.002057
pull
Entries 86
Mean 138.4
Std Dev 0

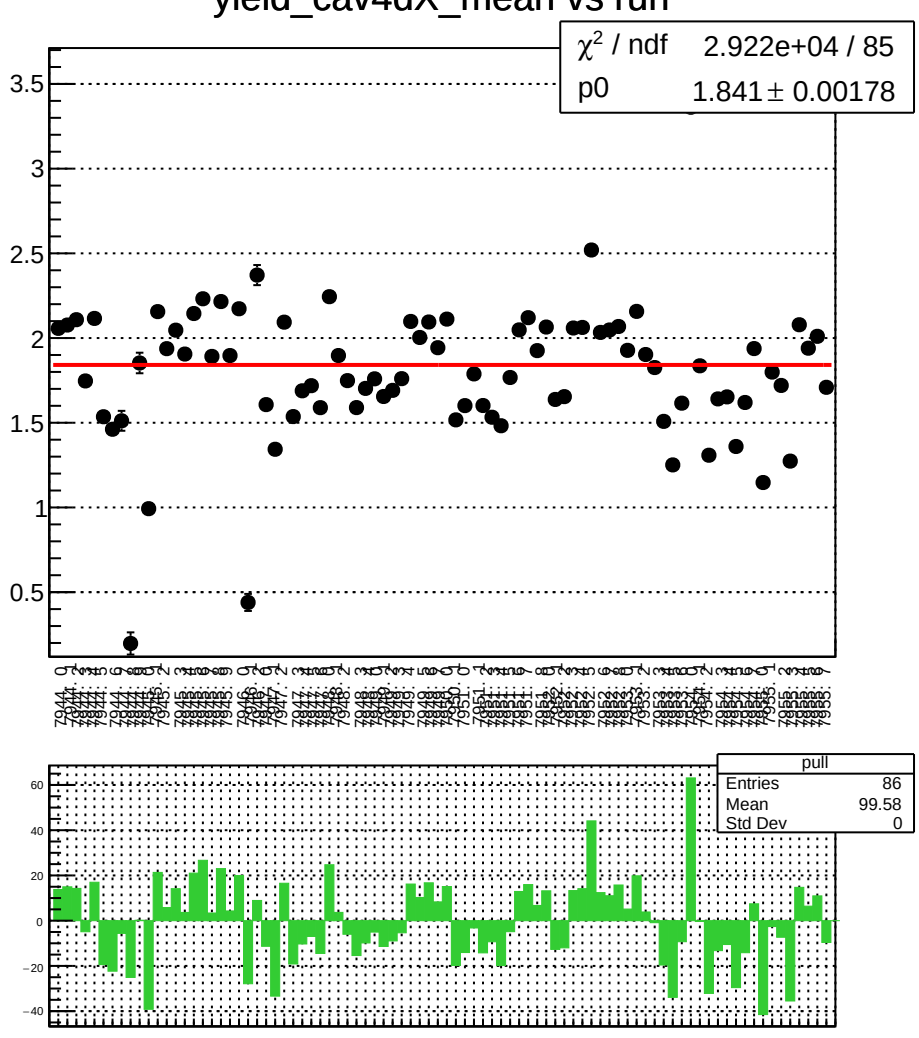

pull1D
Entries 86
Mean −0.1354
Std Dev 5.44

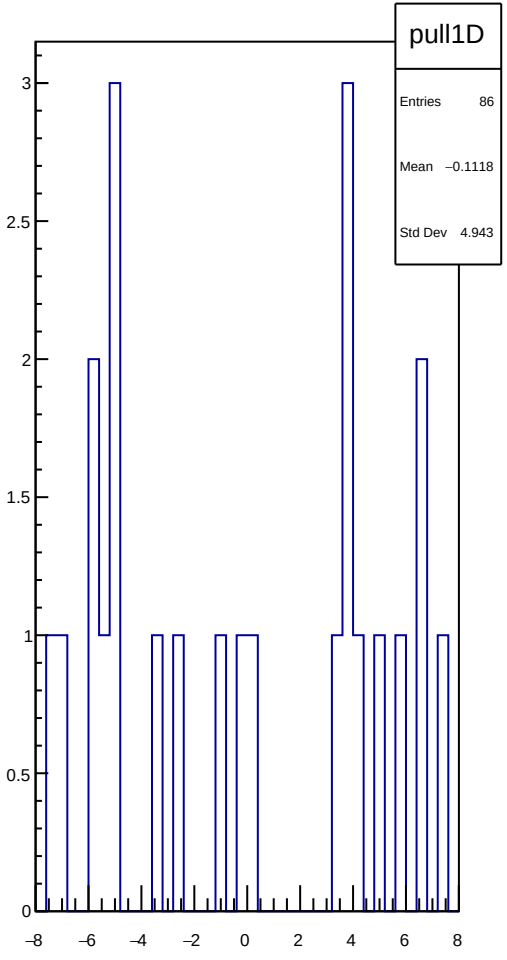

yield_cav4cX_rms vs run
χ^2 / ndf 6.431e+04 / 85
p0 1.814 ± 0.001454
7
6
5
4
3
2
1

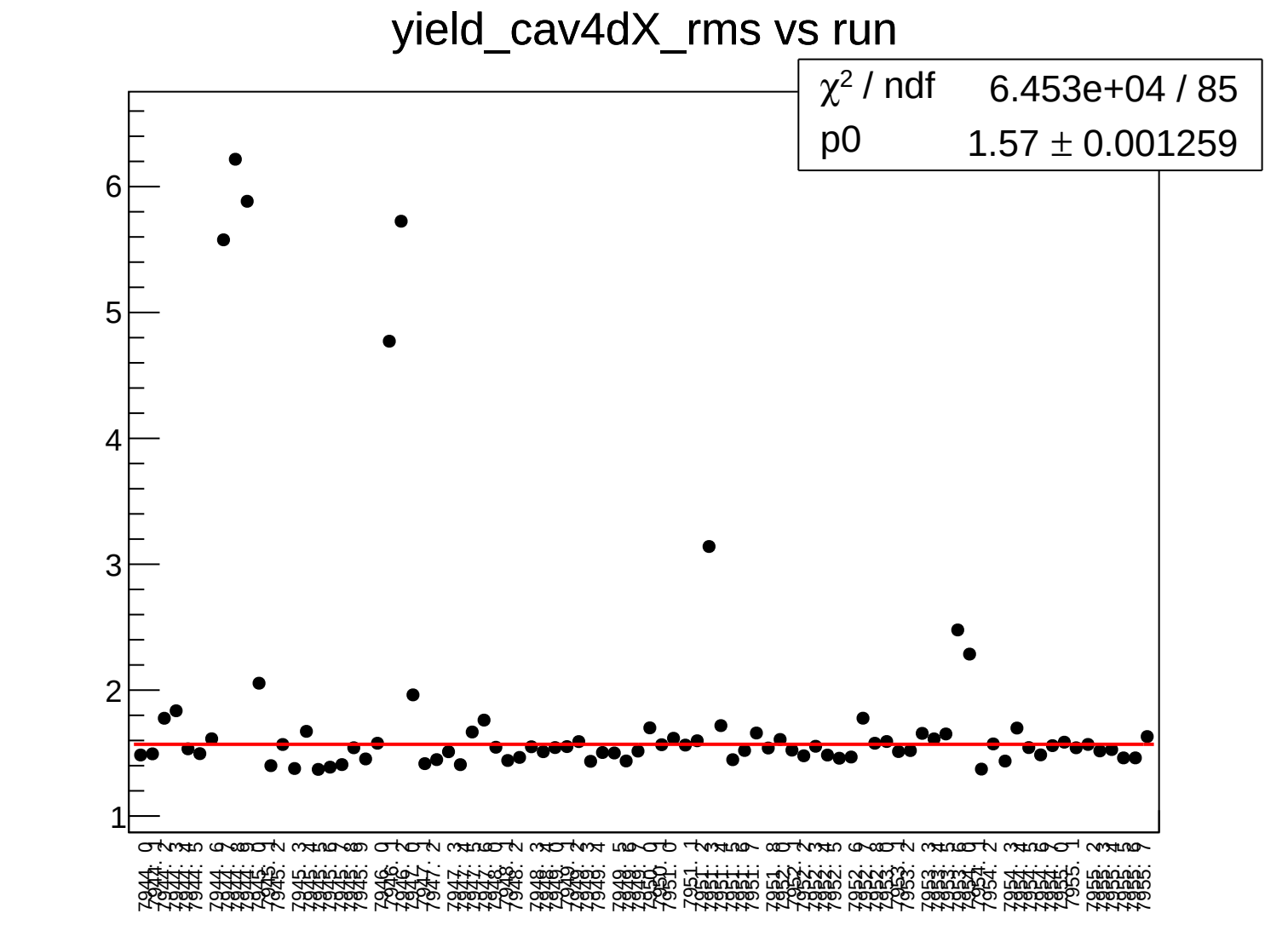

yield_cav4cY_mean vs run
χ² / ndf 7.308e+05 / 85
p0 −37.64 ± 0.0004814
−36.5
−37
−37.5
−38
−38.5
−39
−39.5
pull
Entries 86
Mean −67.84
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

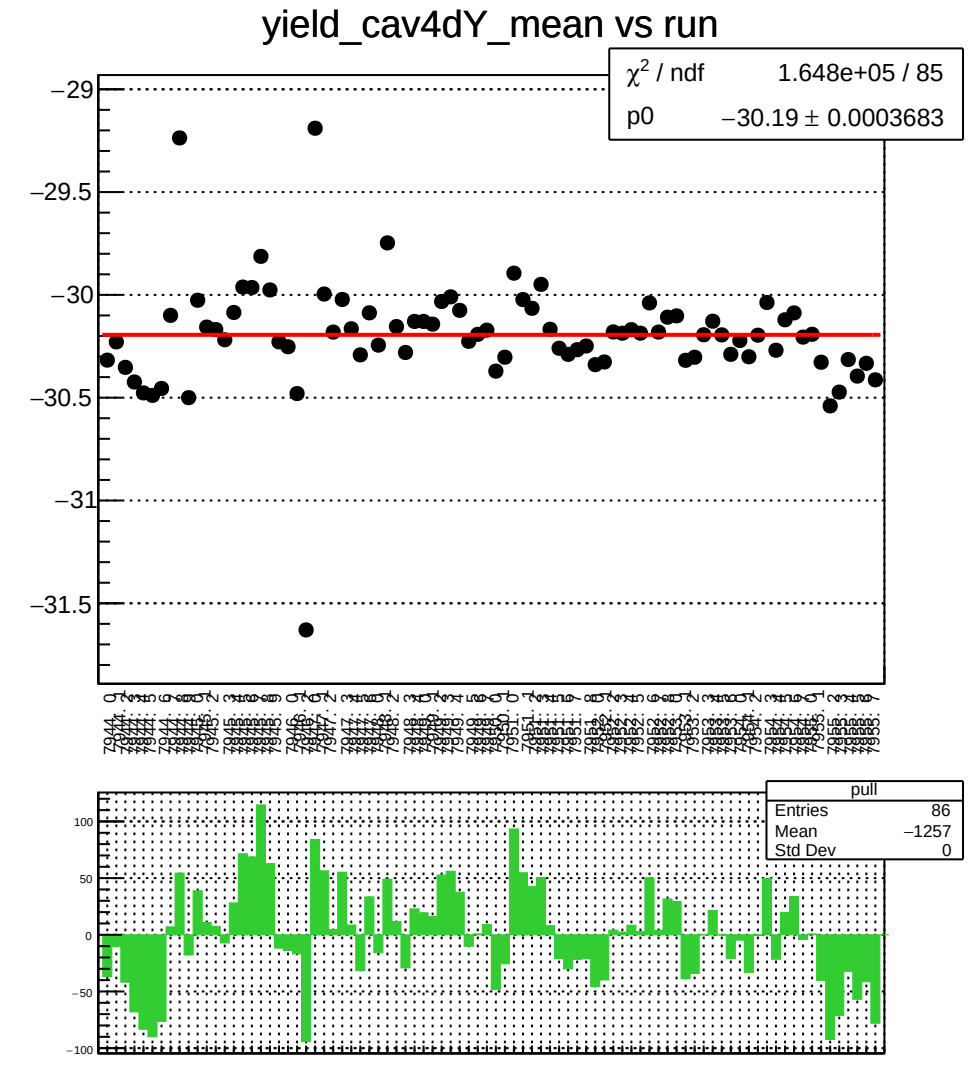

pull1D
Entries 86
Mean −1.774
Std Dev 3.783
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

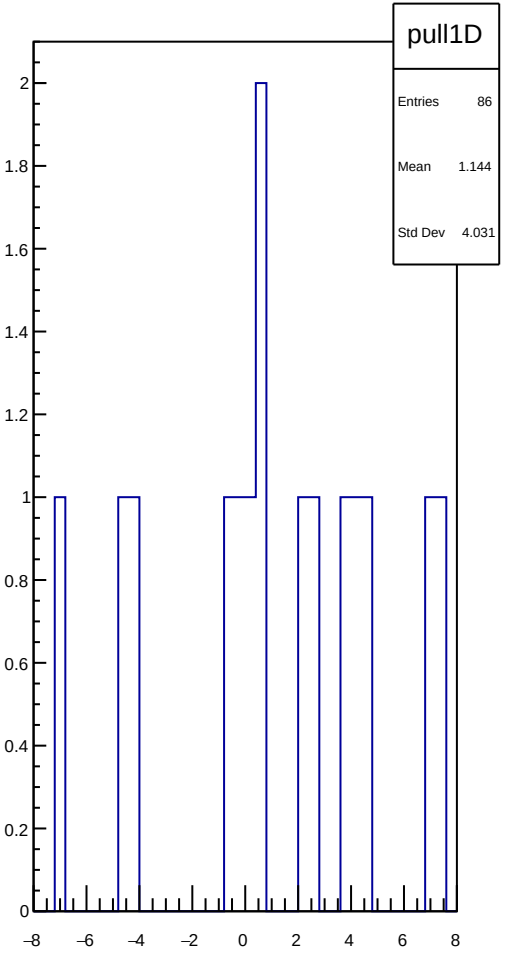

yield_cav4cY_rms vs run
χ^2 / ndf 1.269e+05 / 85
p0 0.4158 ± 0.0003404
2.5
2
1.5
1
0.5

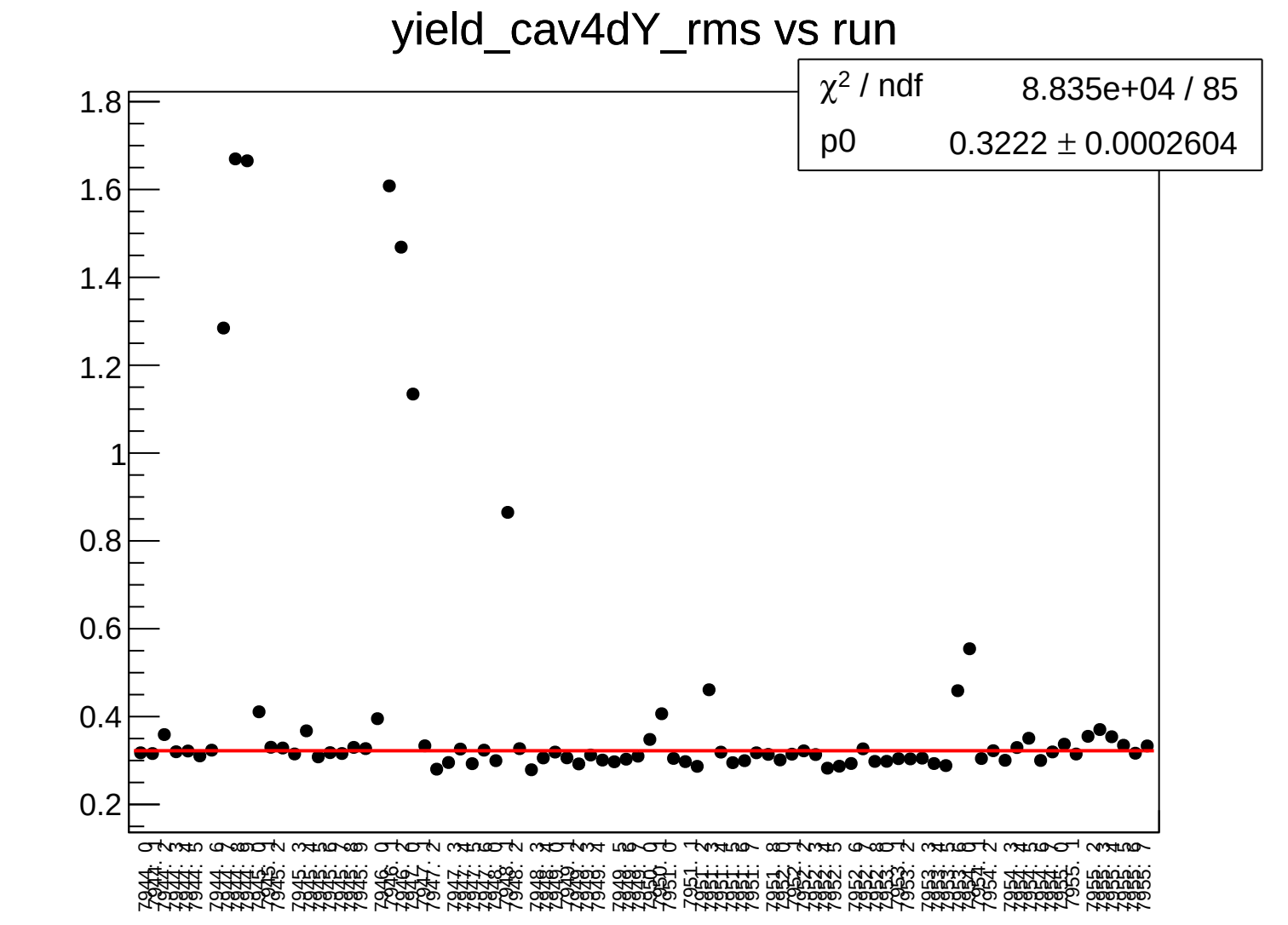

yield_cav4dX_mean vs run
χ² / ndf 2.922e+04 / 85
p0 1.841 ± 0.00178
pull
Entries 86
Mean 99.58
Std Dev 0

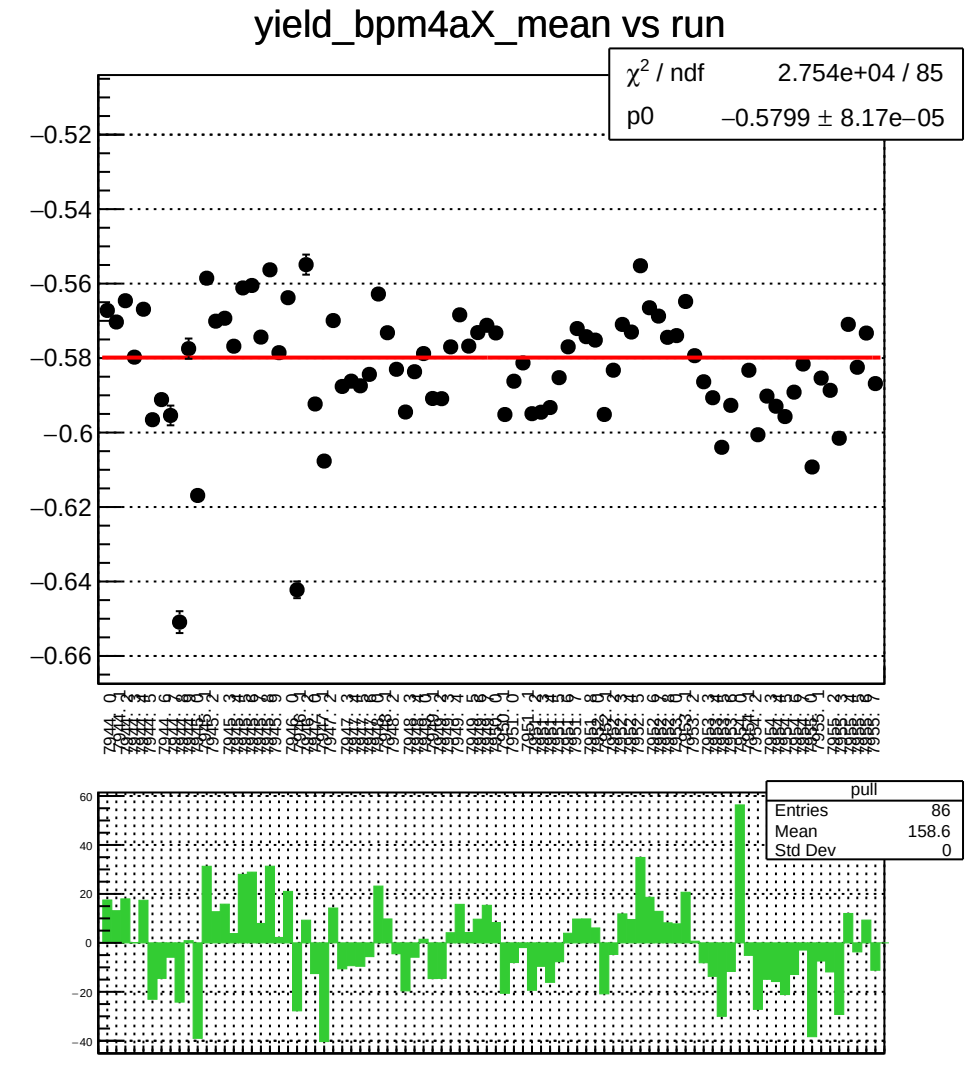

pull1D
Entries 86
Mean −0.1118
Std Dev 4.943

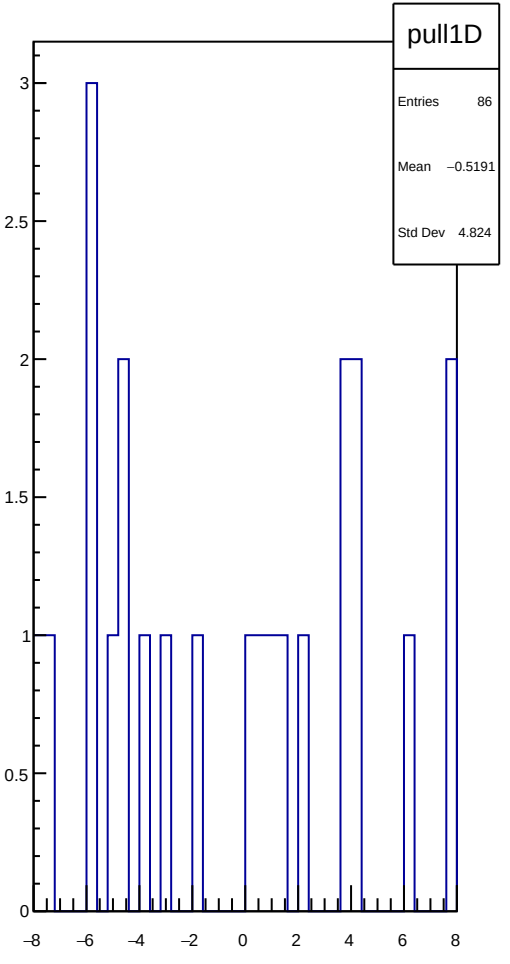

yield_cav4dX_rms vs run
χ² / ndf 6.453e+04 / 85
p0 1.57 ± 0.001259
6
5
4
3
2
1

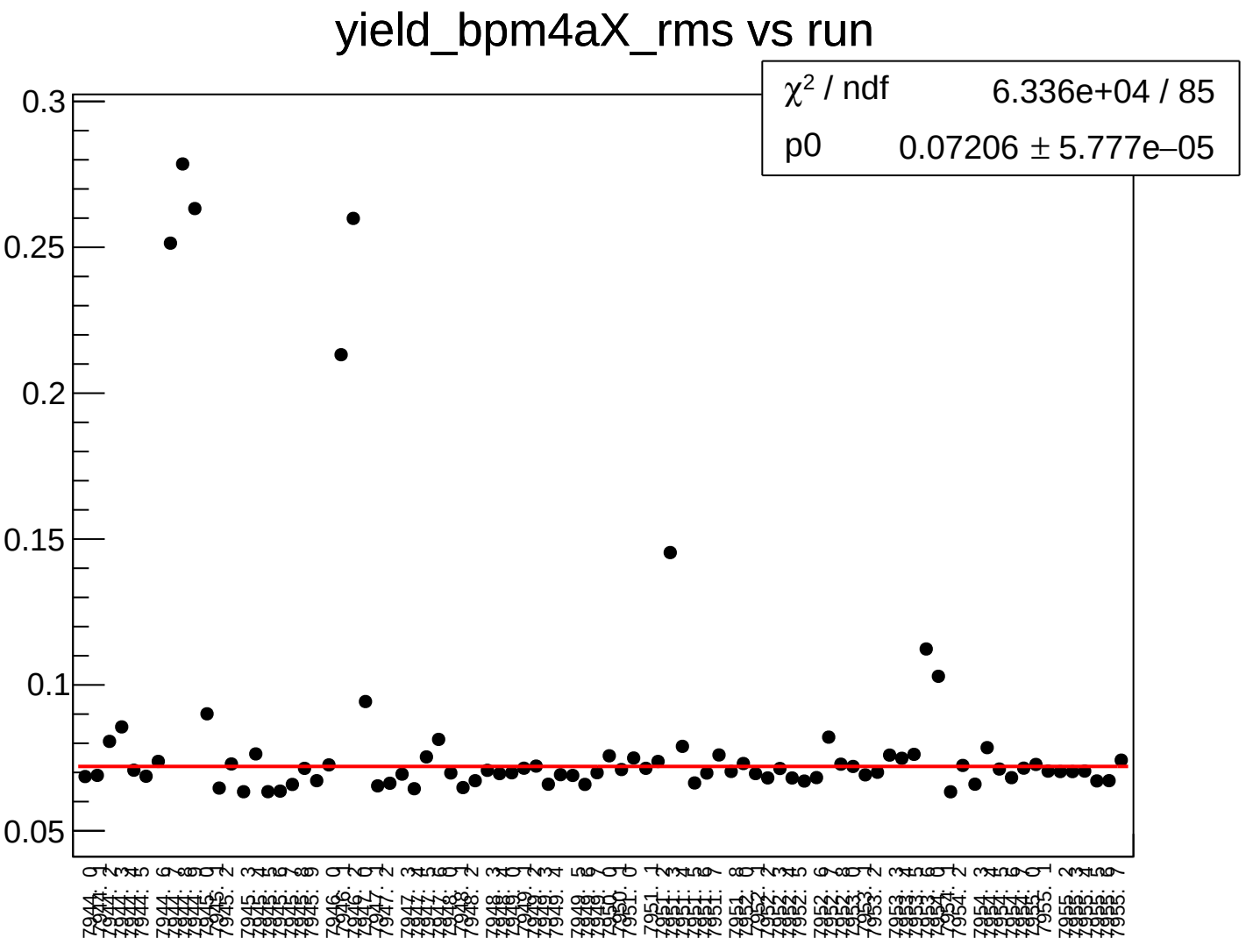

yield_cav4dY_mean vs run
χ² / ndf 1.648e+05 / 85
p0 −30.19 ± 0.0003683
pull
Entries 86
Mean −1257
Std Dev 0

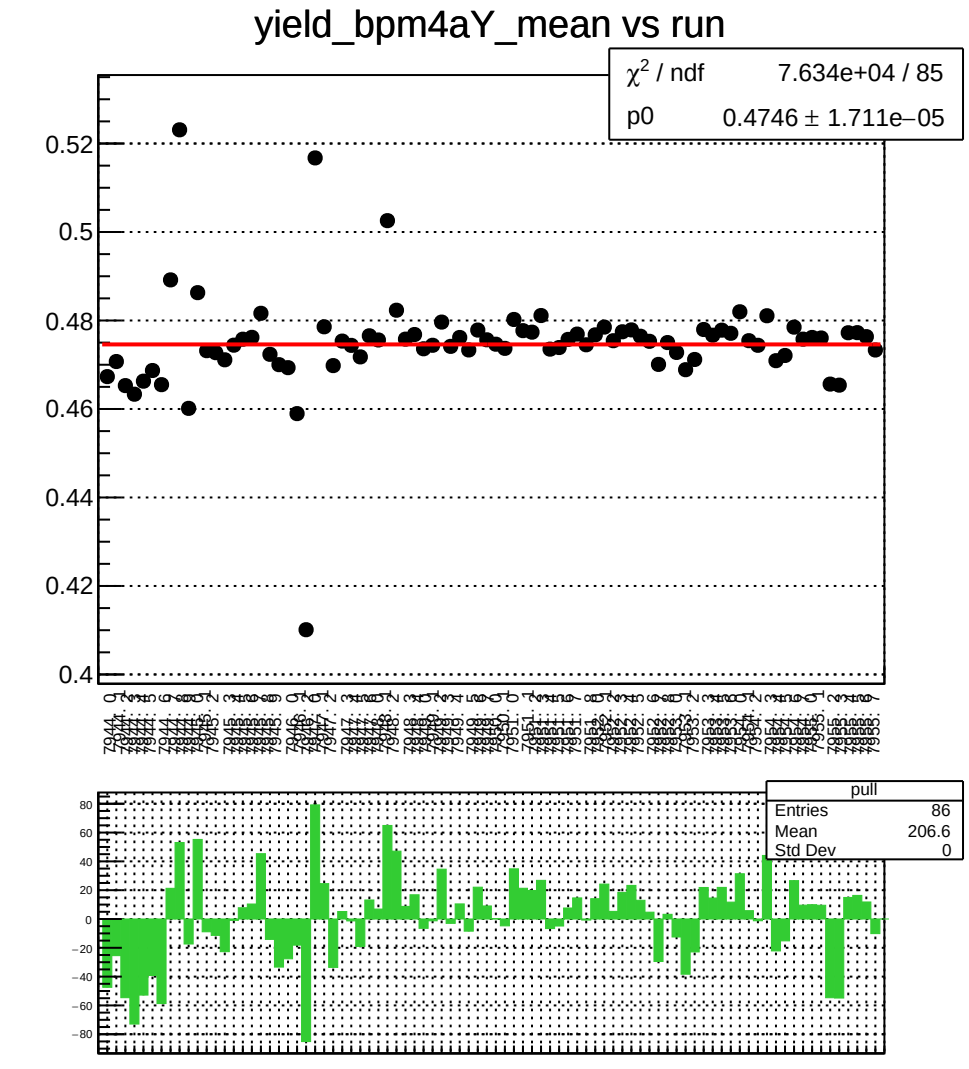

pull1D
Entries 86
Mean 1.144
Std Dev 4.031

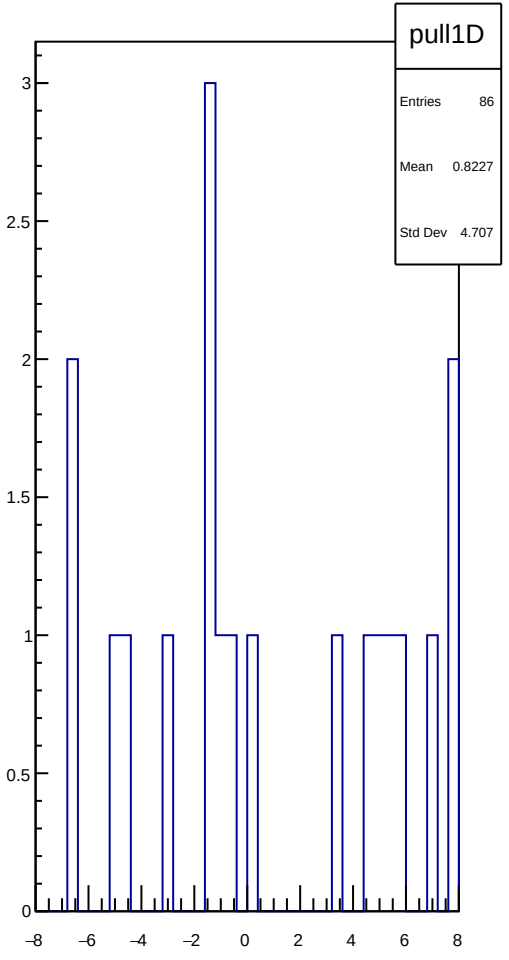

yield_cav4dY_rms vs run
χ² / ndf 8.835e+04 / 85
p0 0.3222 ± 0.0002604
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

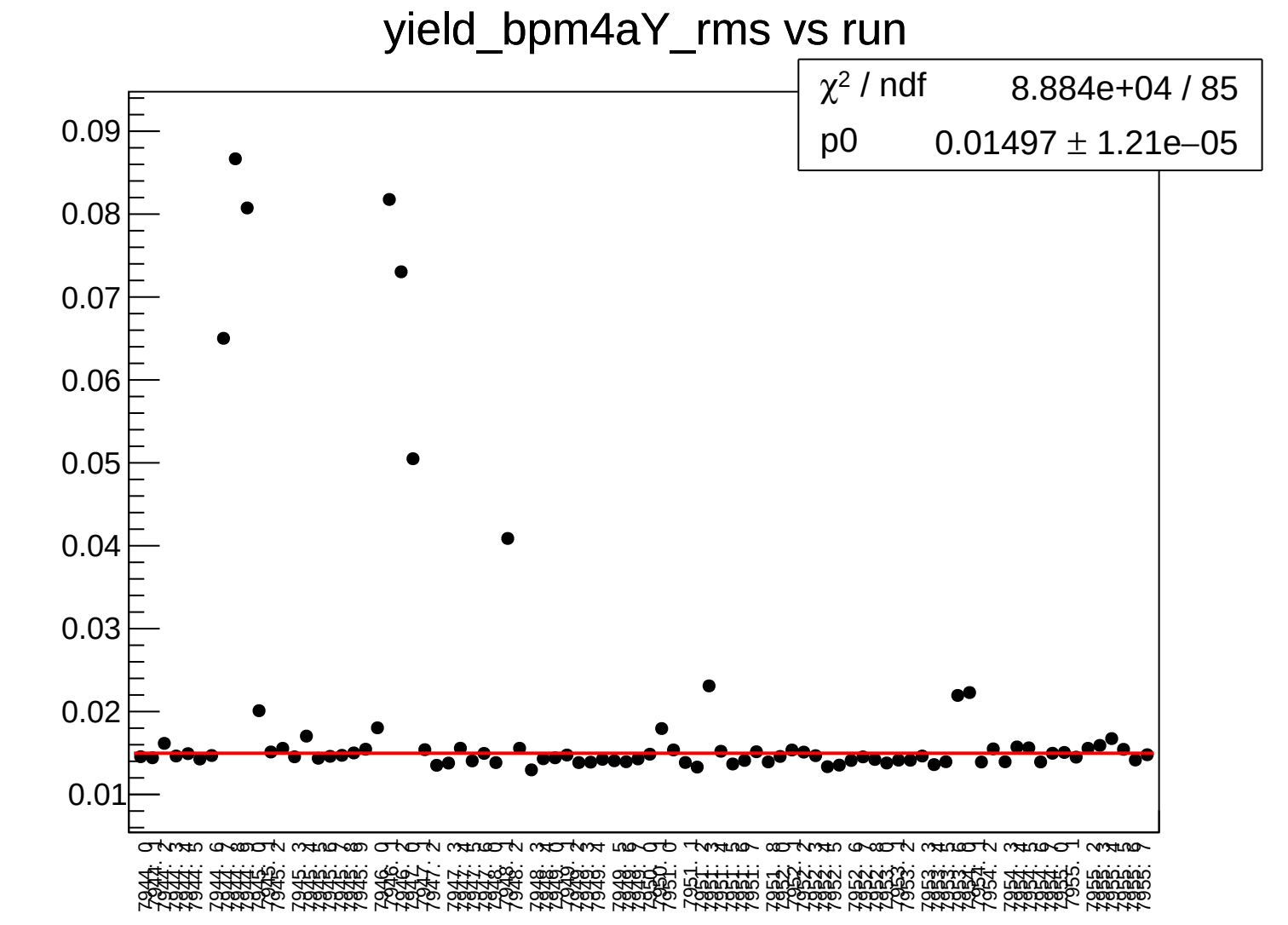

yield_bpm4aX_mean vs run
χ² / ndf 2.754e+04 / 85
p0 −0.5799 ± 8.17e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
pull
Entries 86
Mean 158.6
Std Dev 0
60
40
20
0
−20
−40

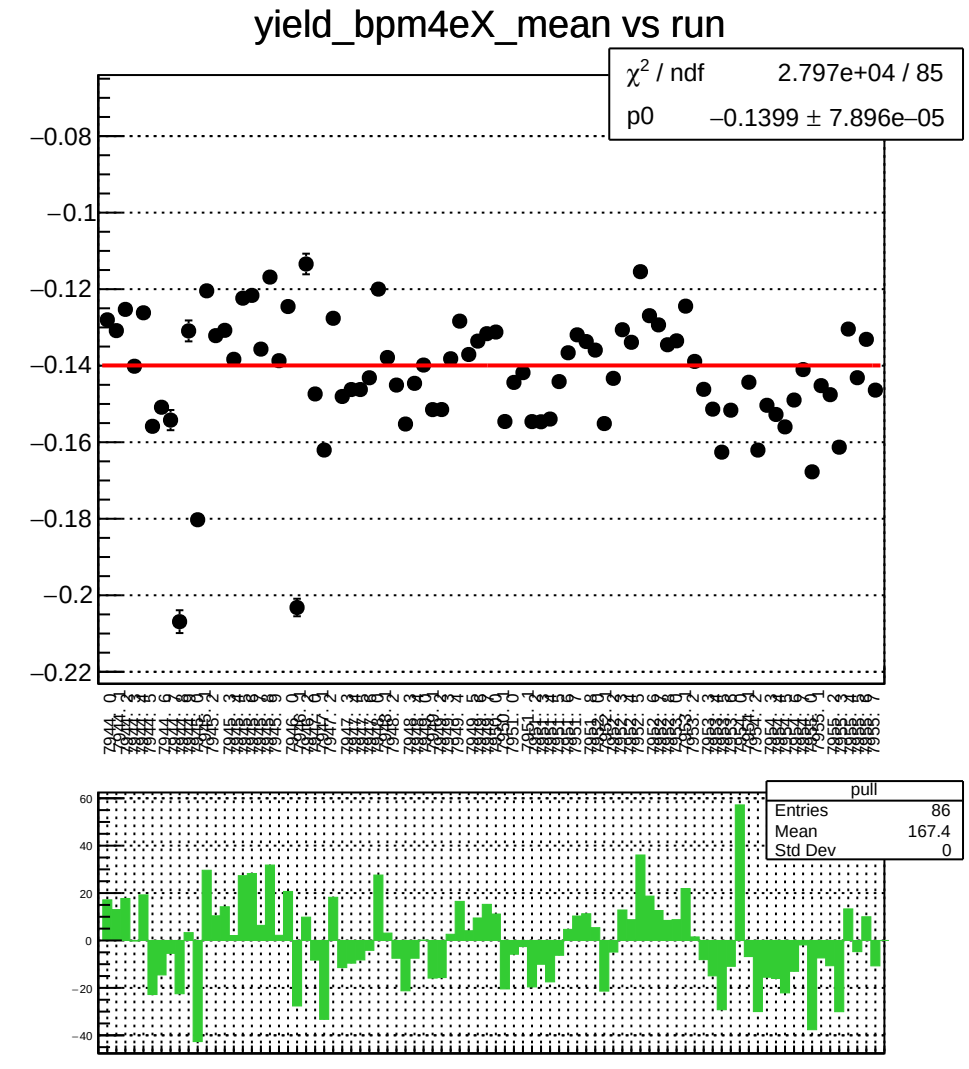

pull1D
Entries 86
Mean −0.5191
Std Dev 4.824
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

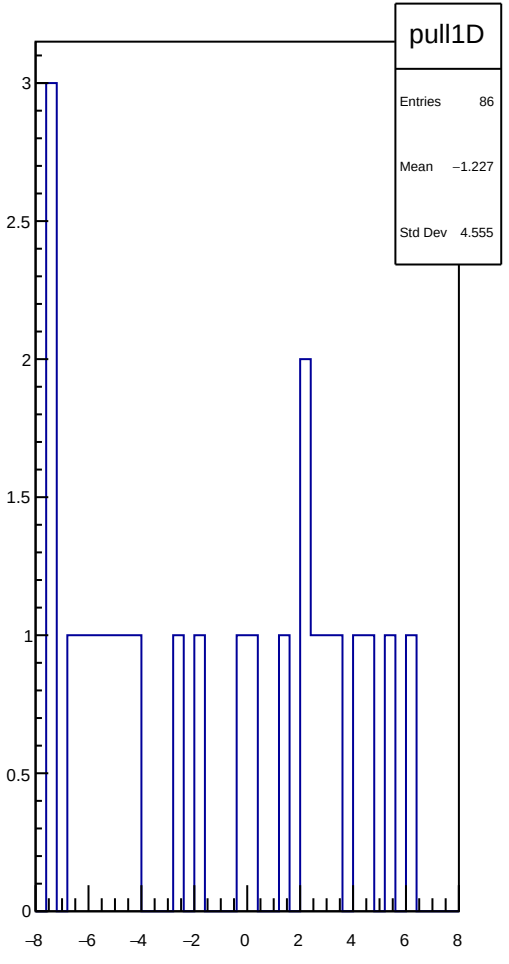

yield_bpm4aX_rms vs run
χ² / ndf 6.336e+04 / 85
p0 0.07206 ± 5.777e–05
0.3
0.25
0.2
0.15
0.1
0.05

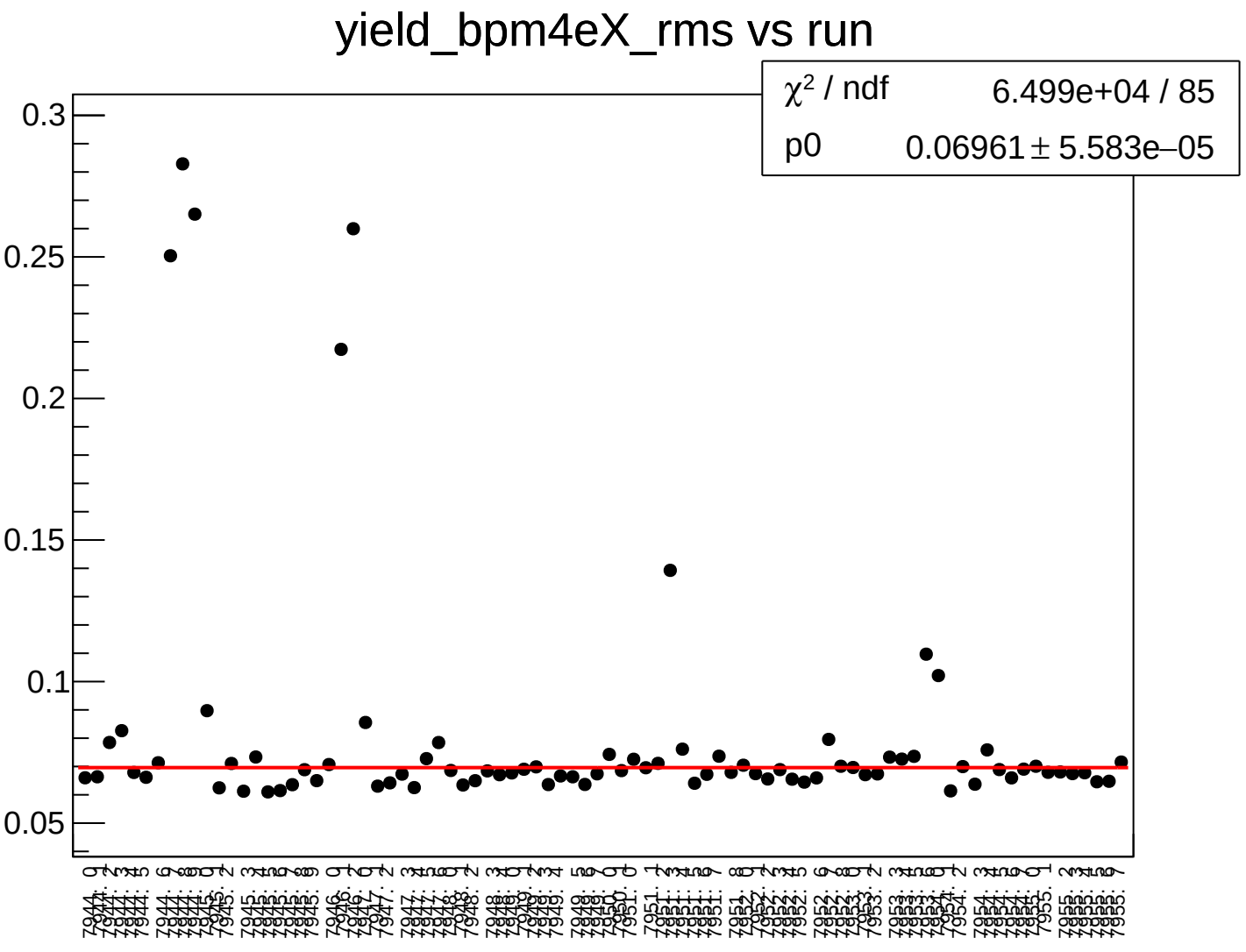

yield_bpm4aY_mean vs run
χ² / ndf 7.634e+04 / 85
p0 0.4746 ± 1.711e−05
0.52
0.5
0.48
0.46
0.44
0.42
0.4
pull
Entries 86
Mean 206.6
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

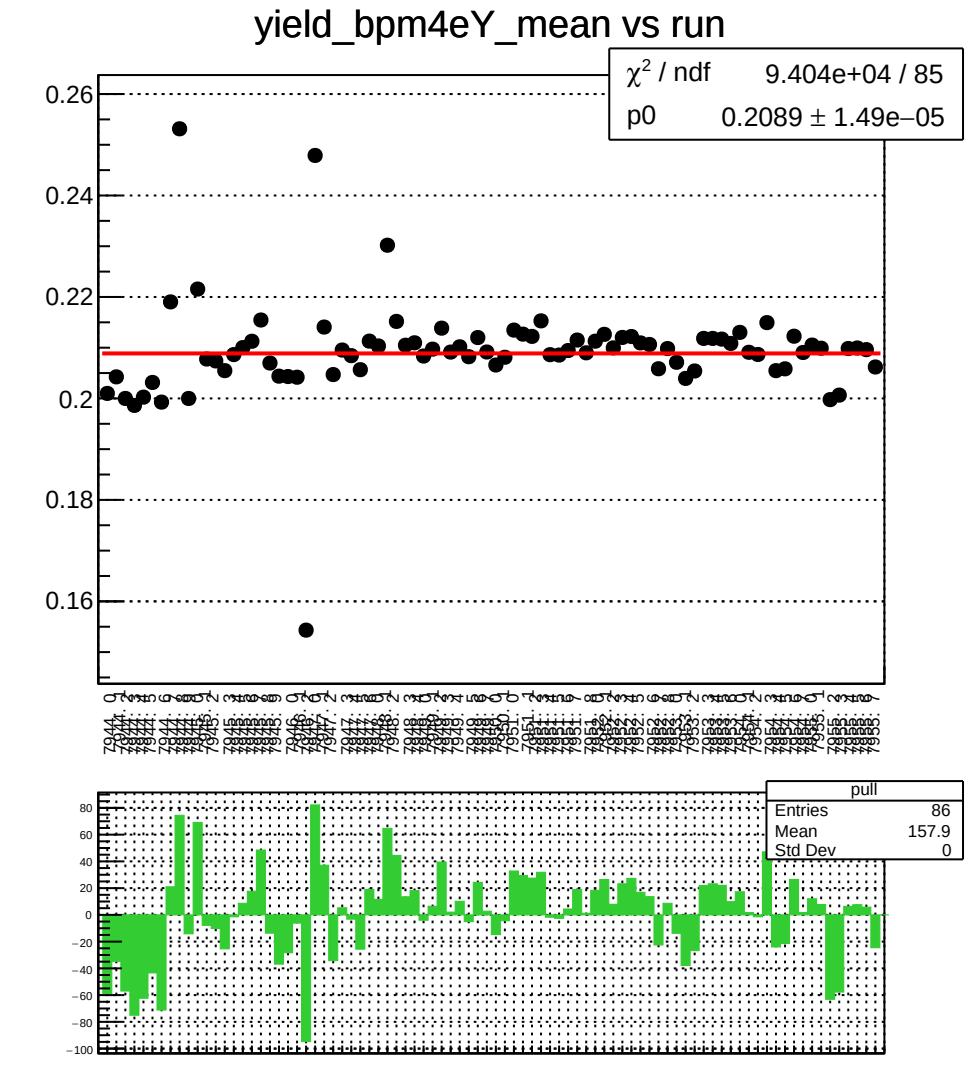

pull1D
Entries 86
Mean 0.8227
Std Dev 4.707
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

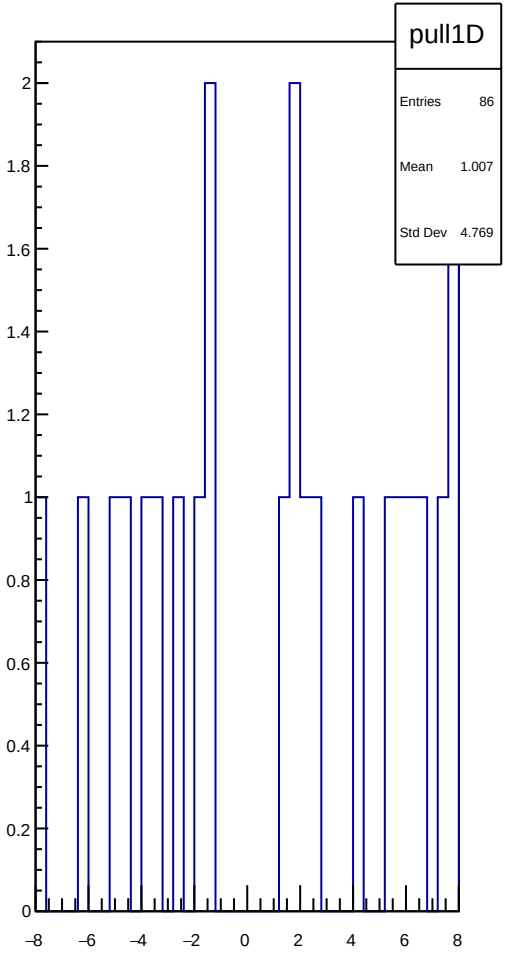

yield_bpm4aY_rms vs run
χ^2 / ndf 8.884e+04 / 85
p0 0.01497 ± 1.21e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

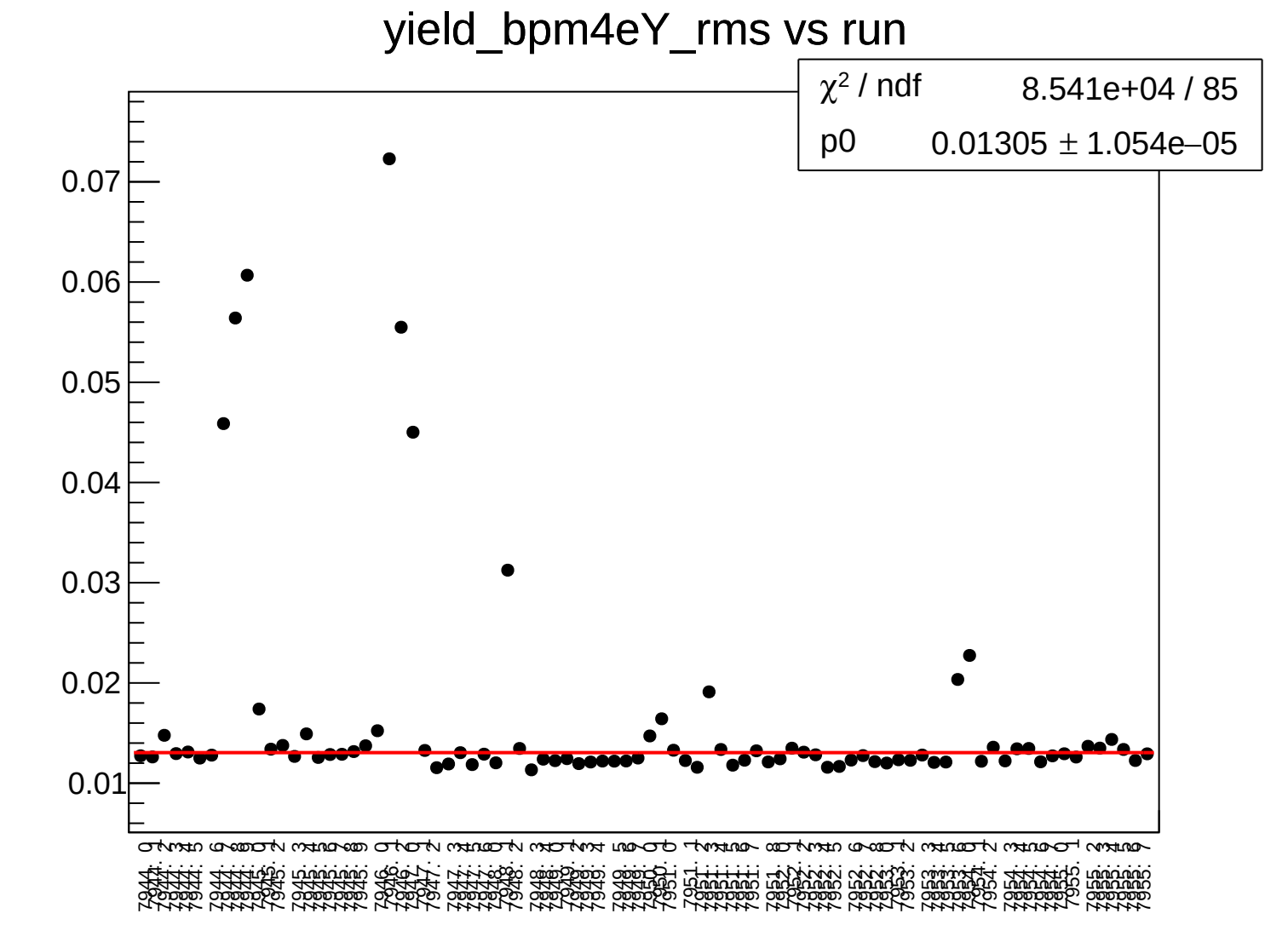

yield_bpm4eX_mean vs run
χ² / ndf 2.797e+04 / 85
p0 −0.1399 ± 7.896e−05
pull
Entries 86
Mean 167.4
Std Dev 0

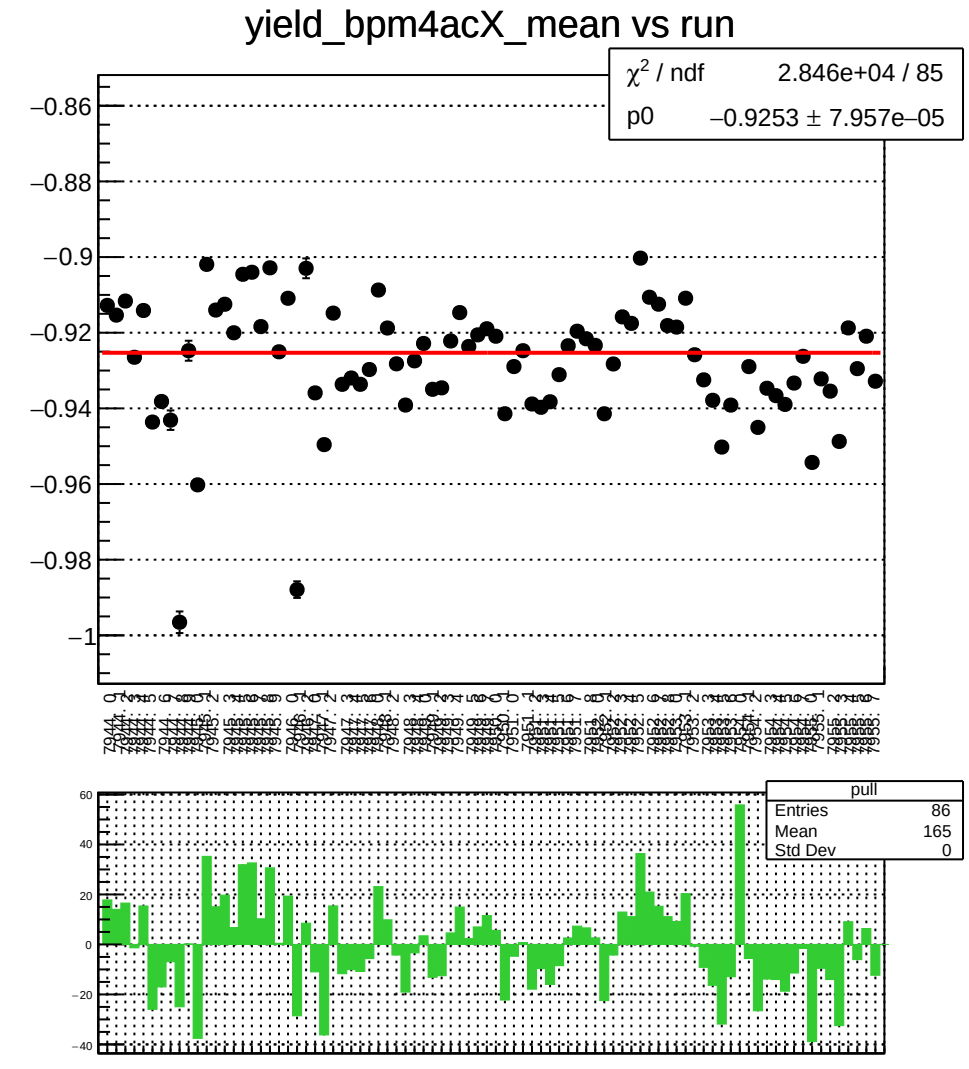

pull1D
Entries 86
Mean −1.227
Std Dev 4.555

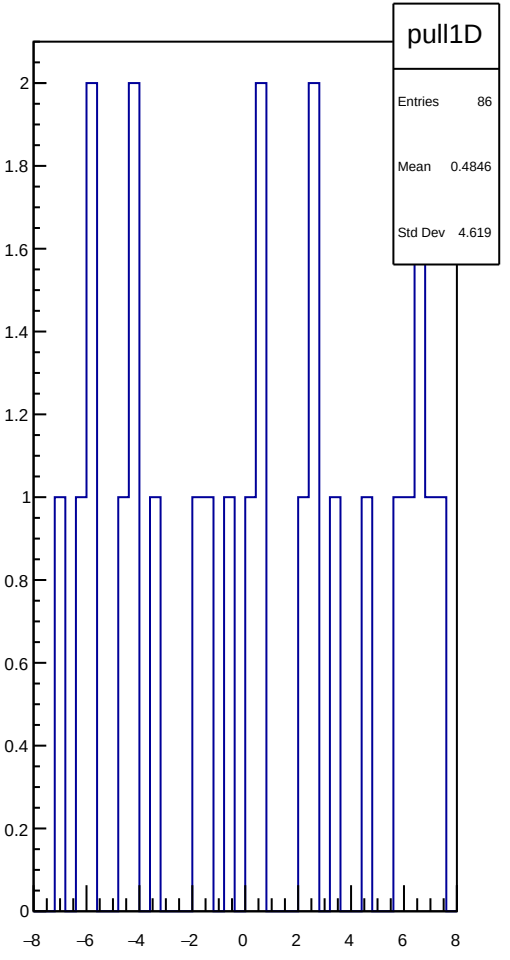

yield_bpm4eX_rms vs run
χ^2 / ndf 6.499e+04 / 85
p0 0.06961 ± 5.583e–05
0.3
0.25
0.2
0.15
0.1
0.05

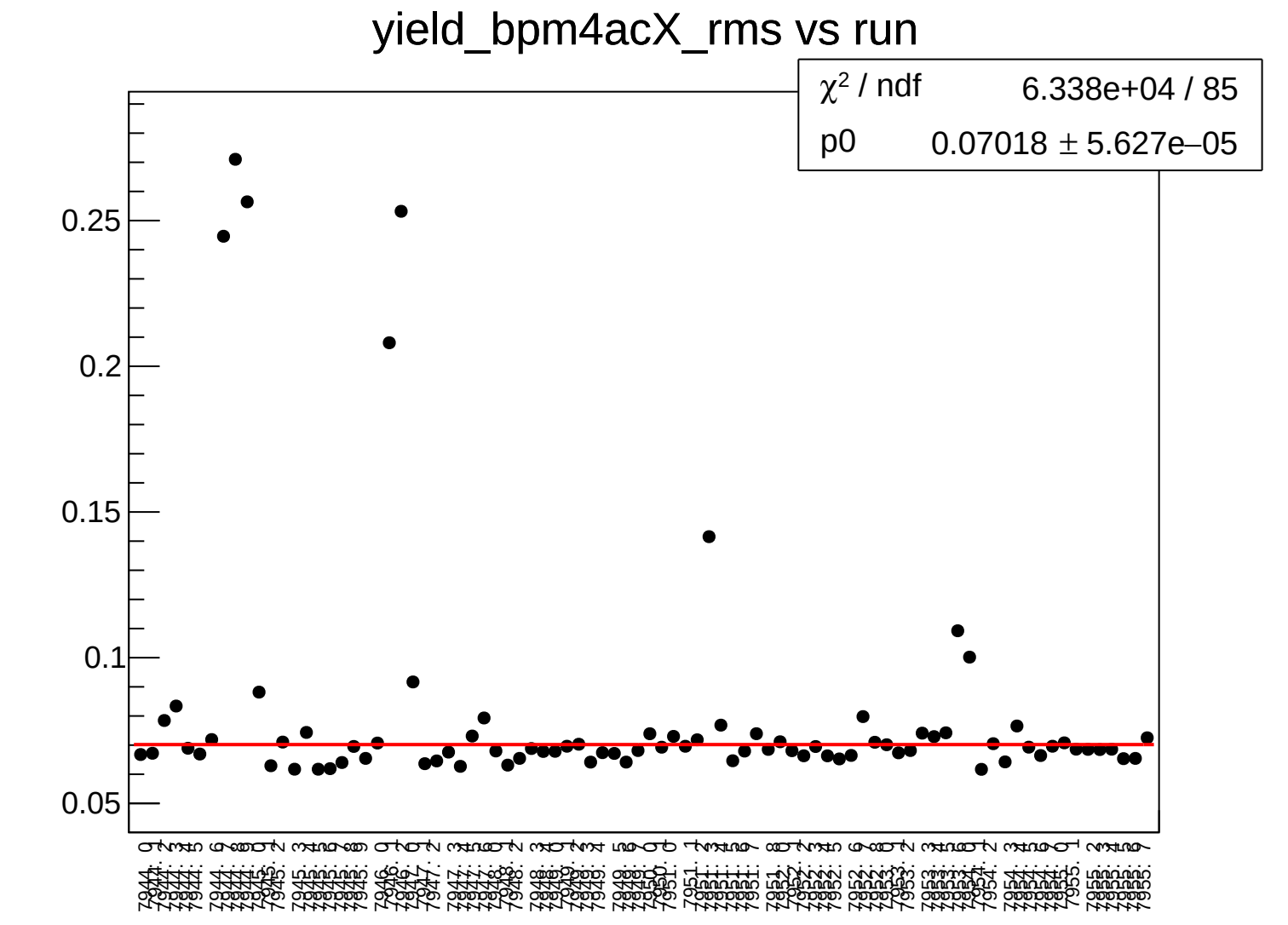

yield_bpm4eY_mean vs run
χ² / ndf 9.404e+04 / 85
p0 0.2089 ± 1.49e−05
0.26
0.24
0.22
0.2
0.18
0.16
pull
Entries 86
Mean 157.9
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

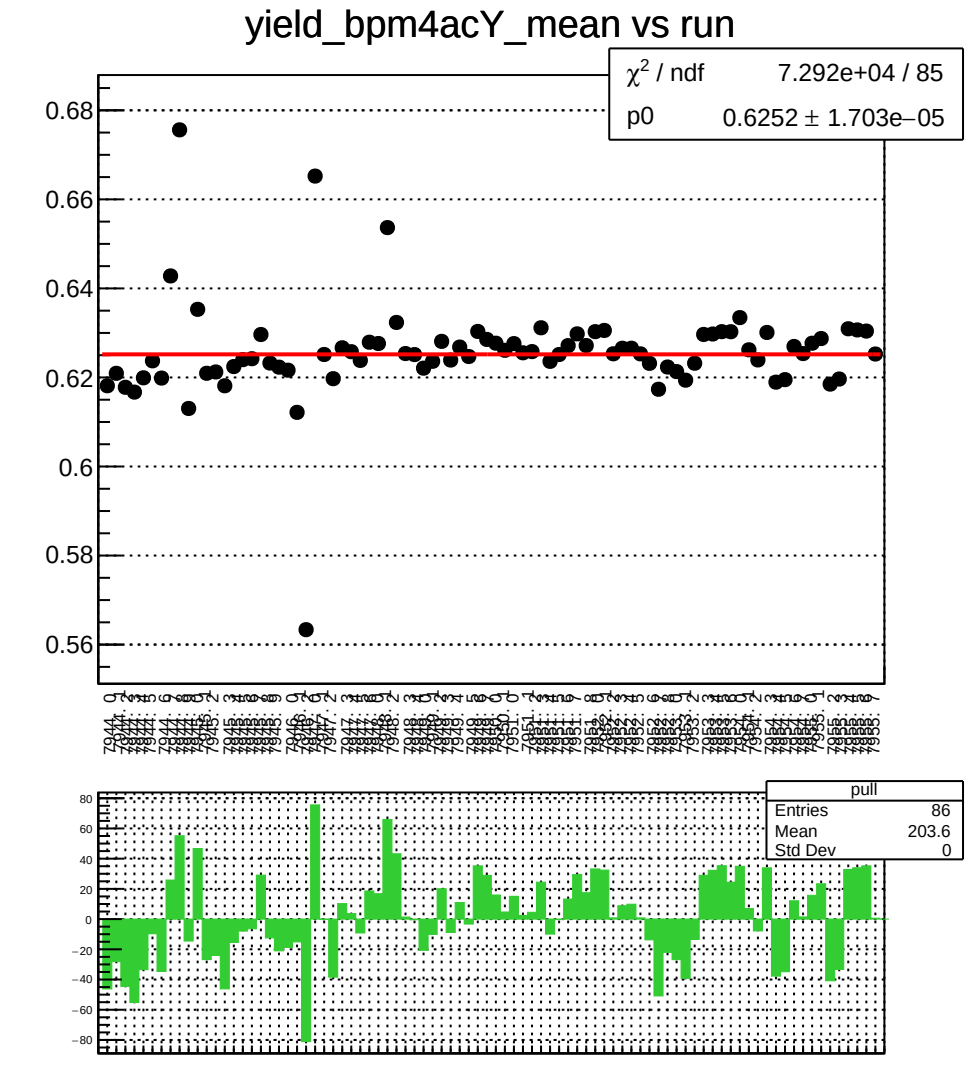

pull1D
Entries 86
Mean 1.007
Std Dev 4.769
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

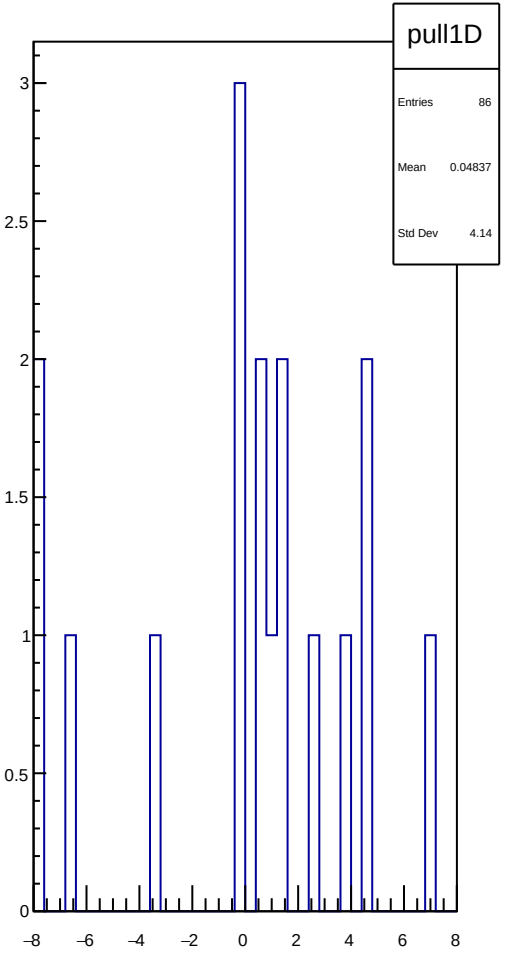

yield_bpm4eY_rms vs run
χ² / ndf 8.541e+04 / 85
p0 0.01305 ± 1.054e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

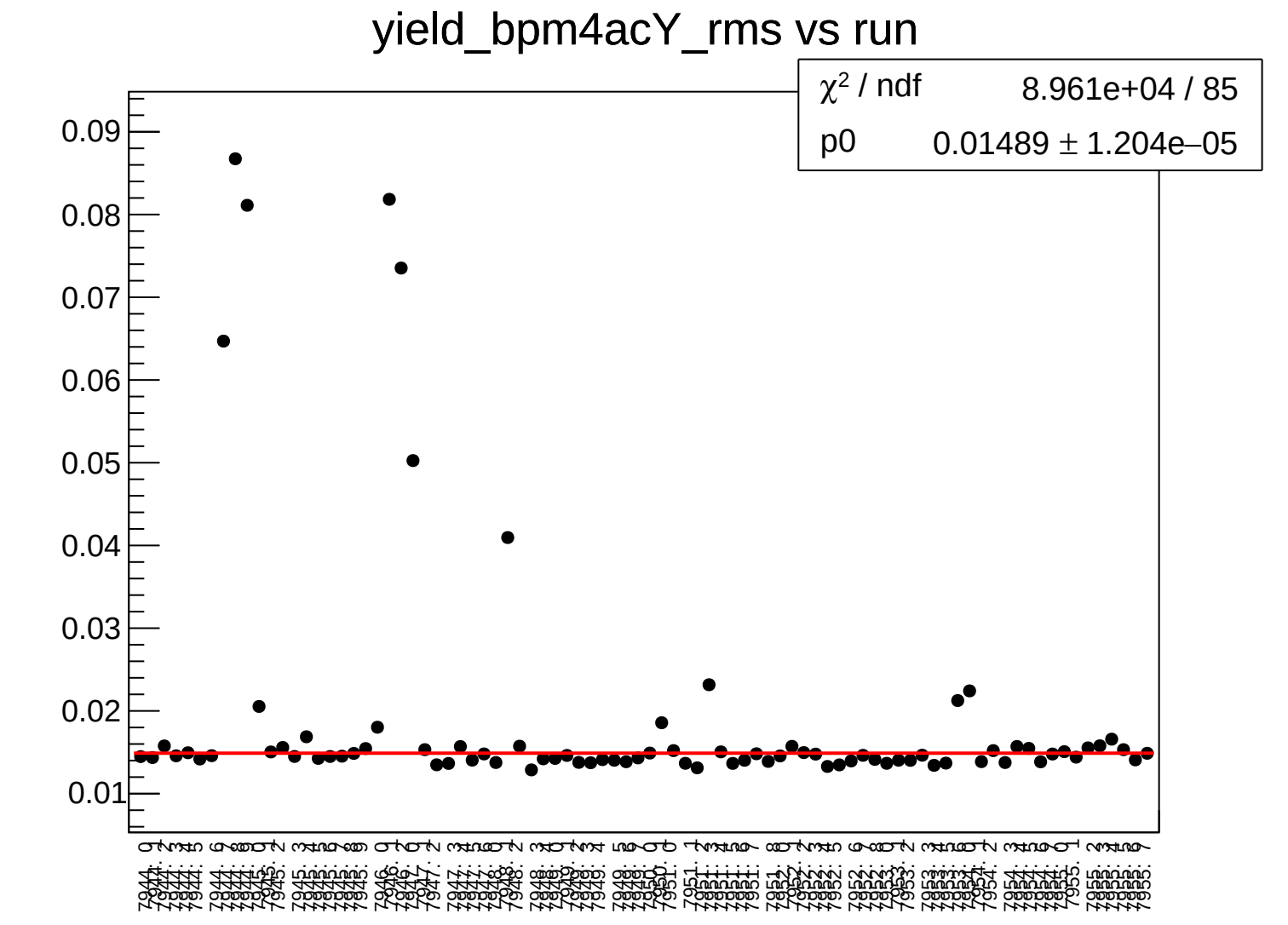

yield_bpm4acX_mean vs run
χ² / ndf 2.846e+04 / 85
p0 −0.9253 ± 7.957e−05
pull
Entries 86
Mean 165
Std Dev 0

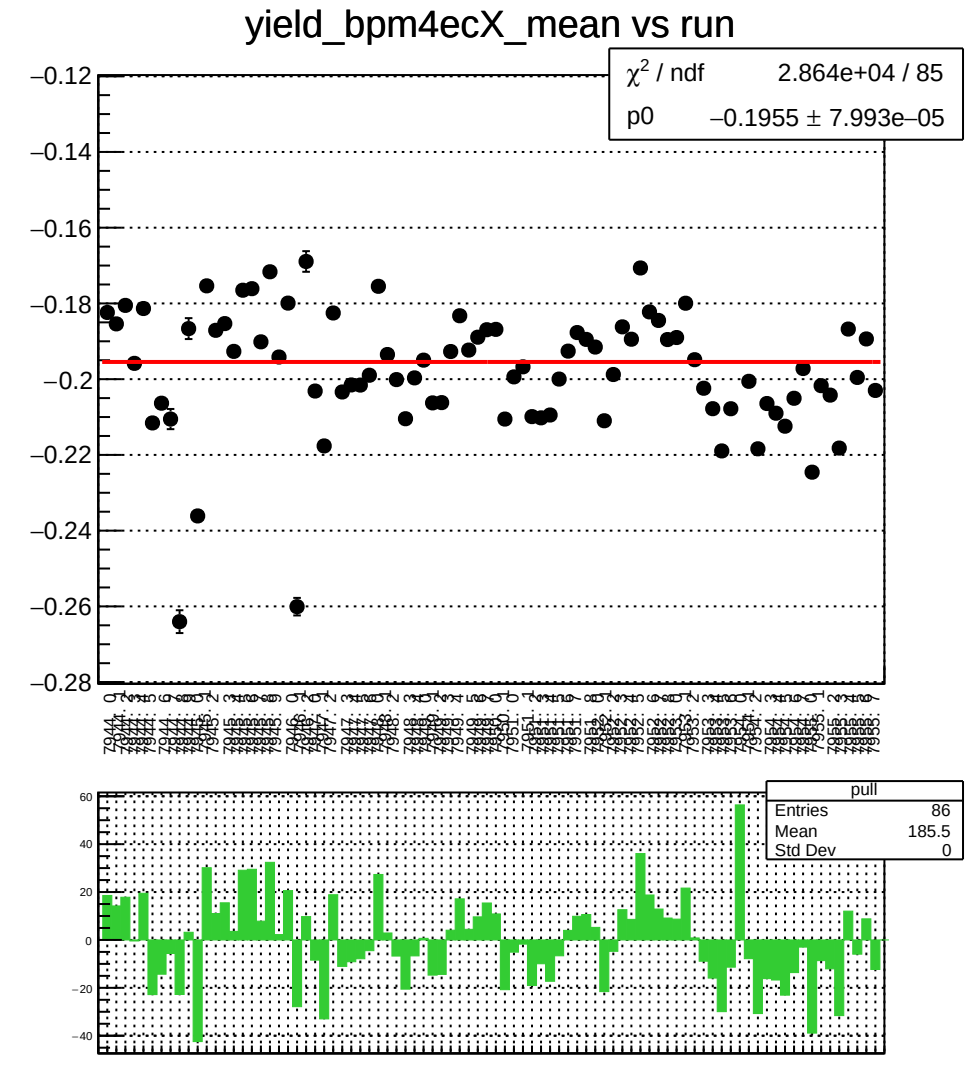

pull1D
Entries 86
Mean 0.4846
Std Dev 4.619

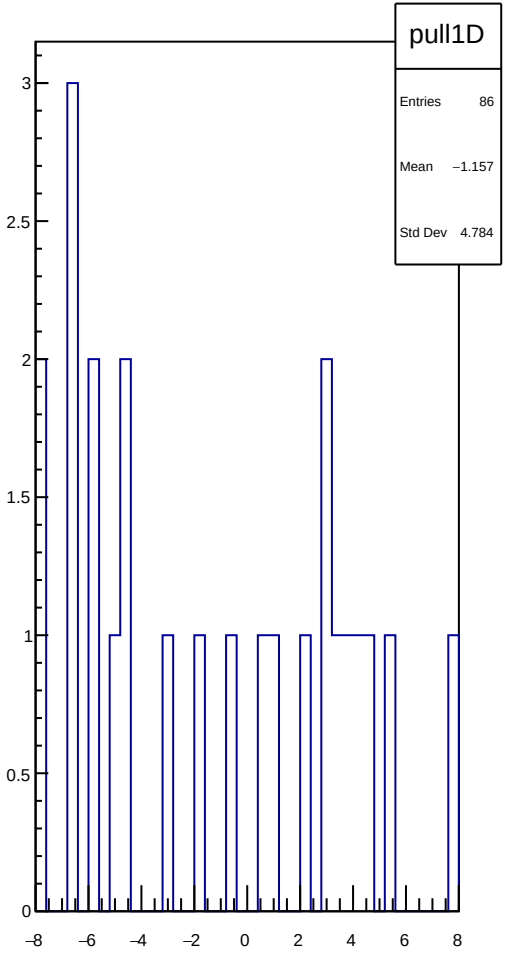

yield_bpm4acX_rms vs run
χ² / ndf 6.338e+04 / 85
p0 0.07018 ± 5.627e–05
0.25
0.2
0.15
0.1
0.05

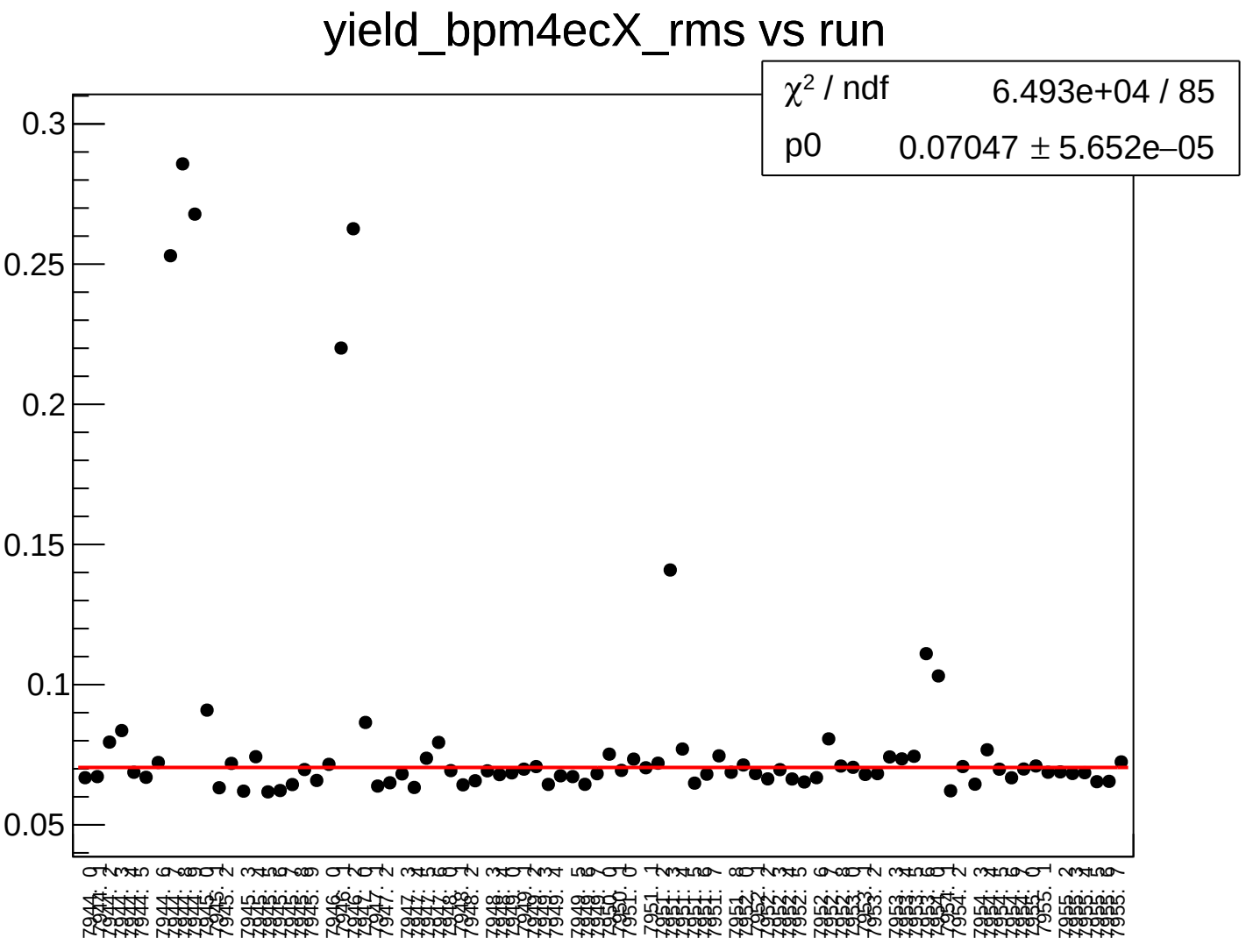

yield_bpm4acY_mean vs run
χ² / ndf 7.292e+04 / 85
p0 0.6252 ± 1.703e−05
0.68
0.66
0.64
0.62
0.6
0.58
0.56
pull
Entries 86
Mean 203.6
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

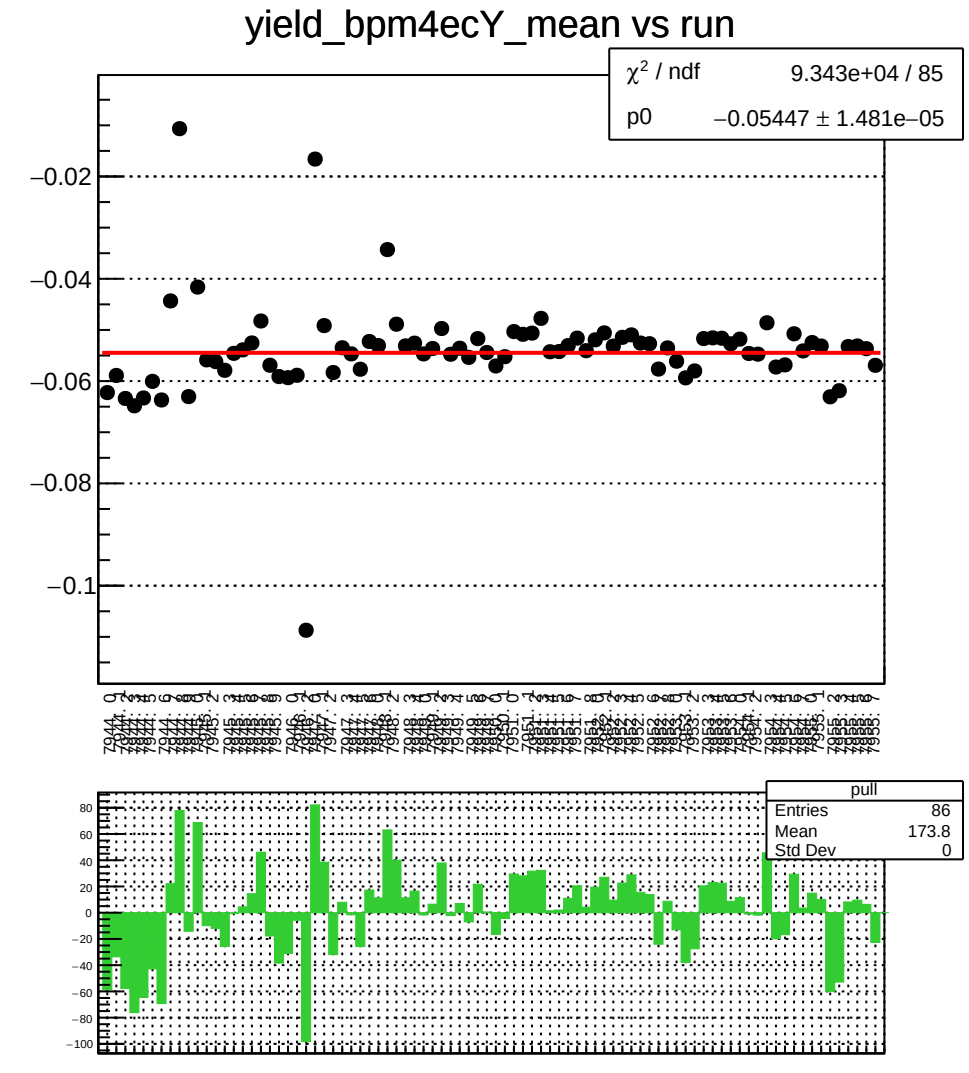

pull1D
Entries 86
Mean 0.04837
Std Dev 4.14
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

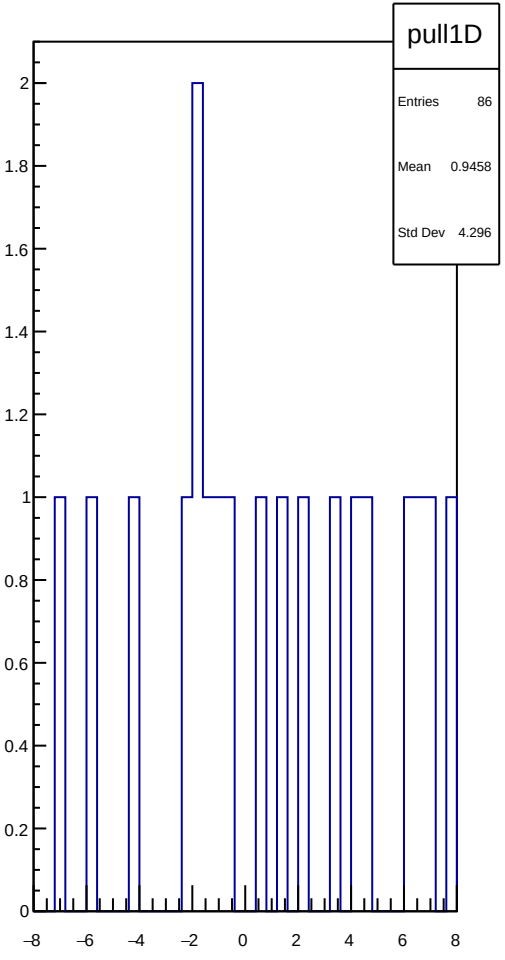

yield_bpm4acY_rms vs run
χ² / ndf 8.961e+04 / 85
p0 0.01489 ± 1.204e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

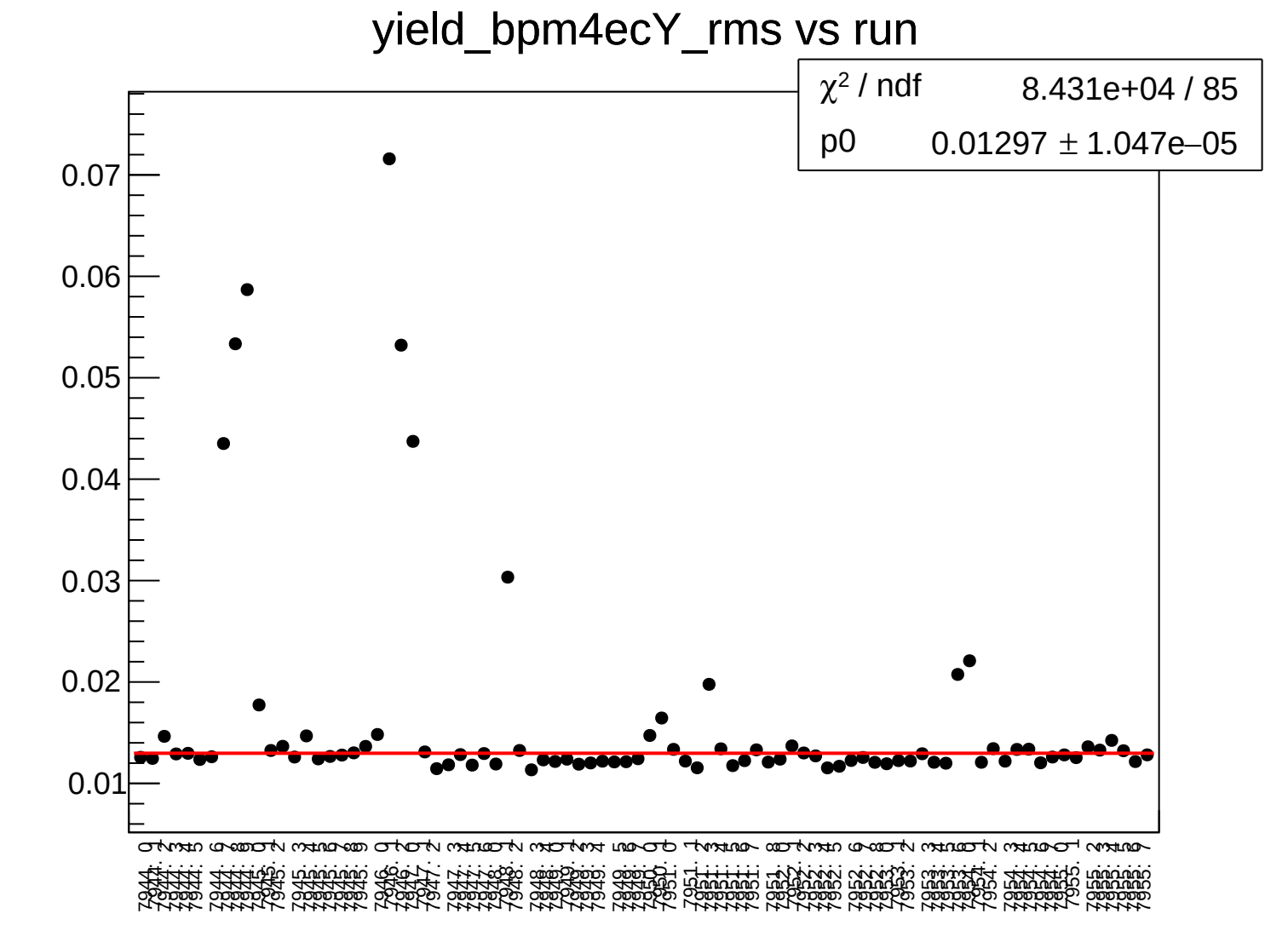

yield_bpm4ecX_mean vs run
χ² / ndf 2.864e+04 / 85
p0 −0.1955 ± 7.993e−05
pull
Entries 86
Mean 185.5
Std Dev 0

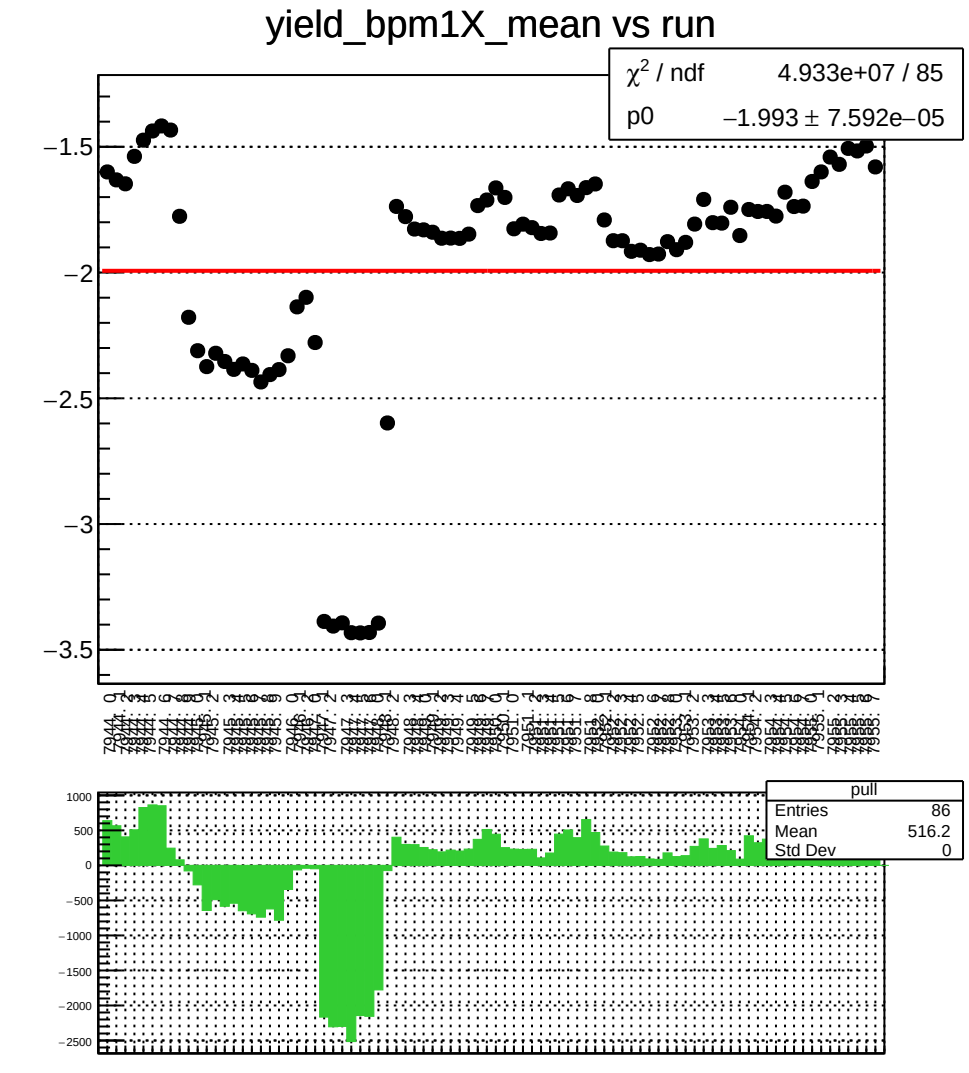

pull1D
Entries 86
Mean −1.157
Std Dev 4.784

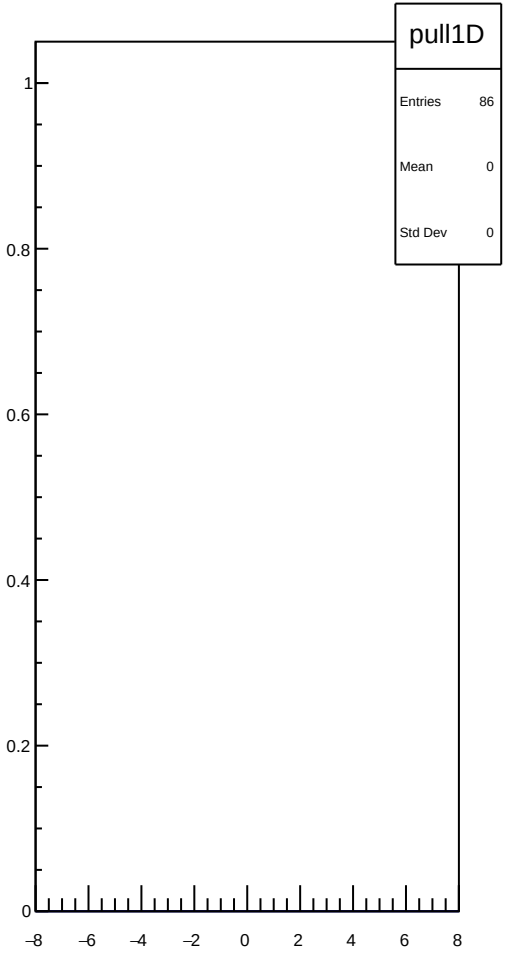

yield_bpm4ecX_rms vs run
χ² / ndf 6.493e+04 / 85
p0 0.07047 ± 5.652e–05
0.3
0.25
0.2
0.15
0.1
0.05

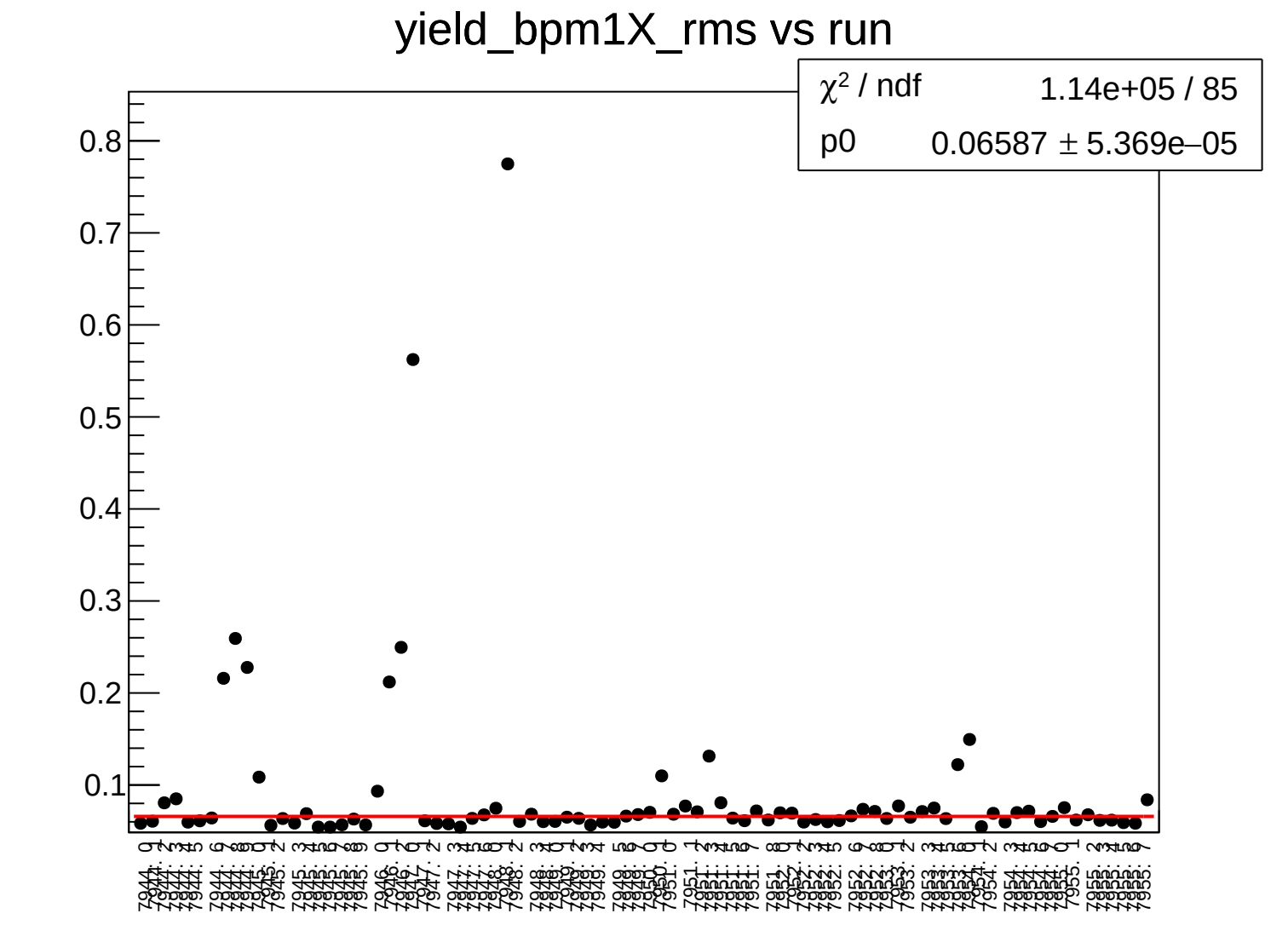

yield_bpm4ecY_mean vs run
χ² / ndf 9.343e+04 / 85
p0 −0.05447 ± 1.481e−05
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 86
Mean 173.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

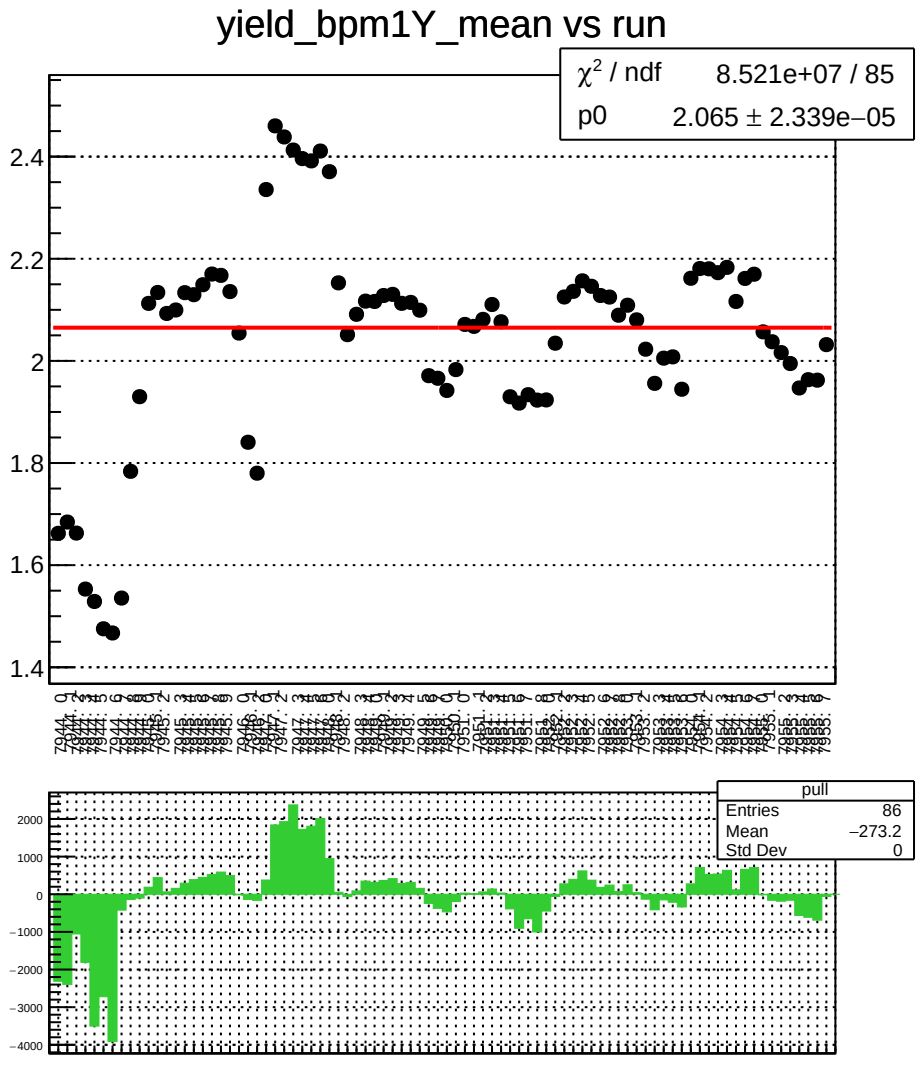

pull1D
Entries 86
Mean 0.9458
Std Dev 4.296
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

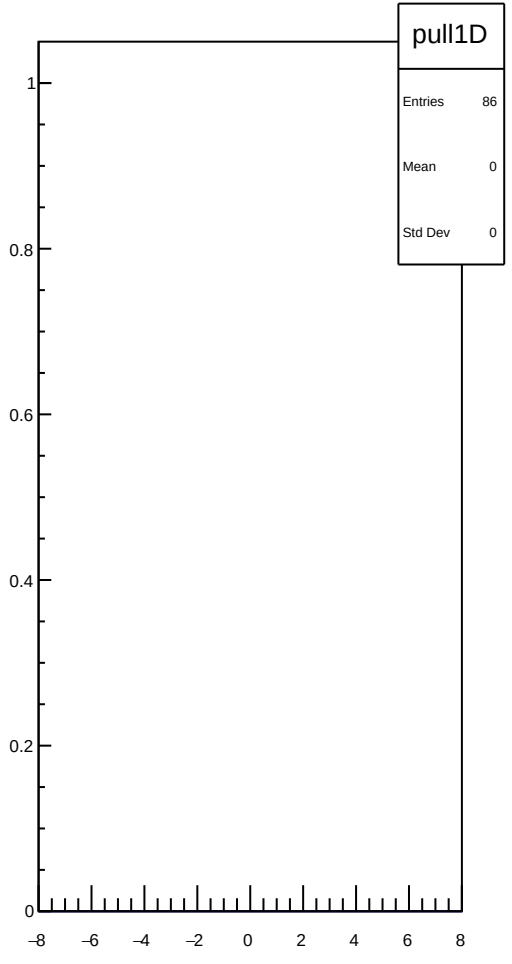

yield_bpm4ecY_rms vs run
χ² / ndf 8.431e+04 / 85
p0 0.01297 ± 1.047e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

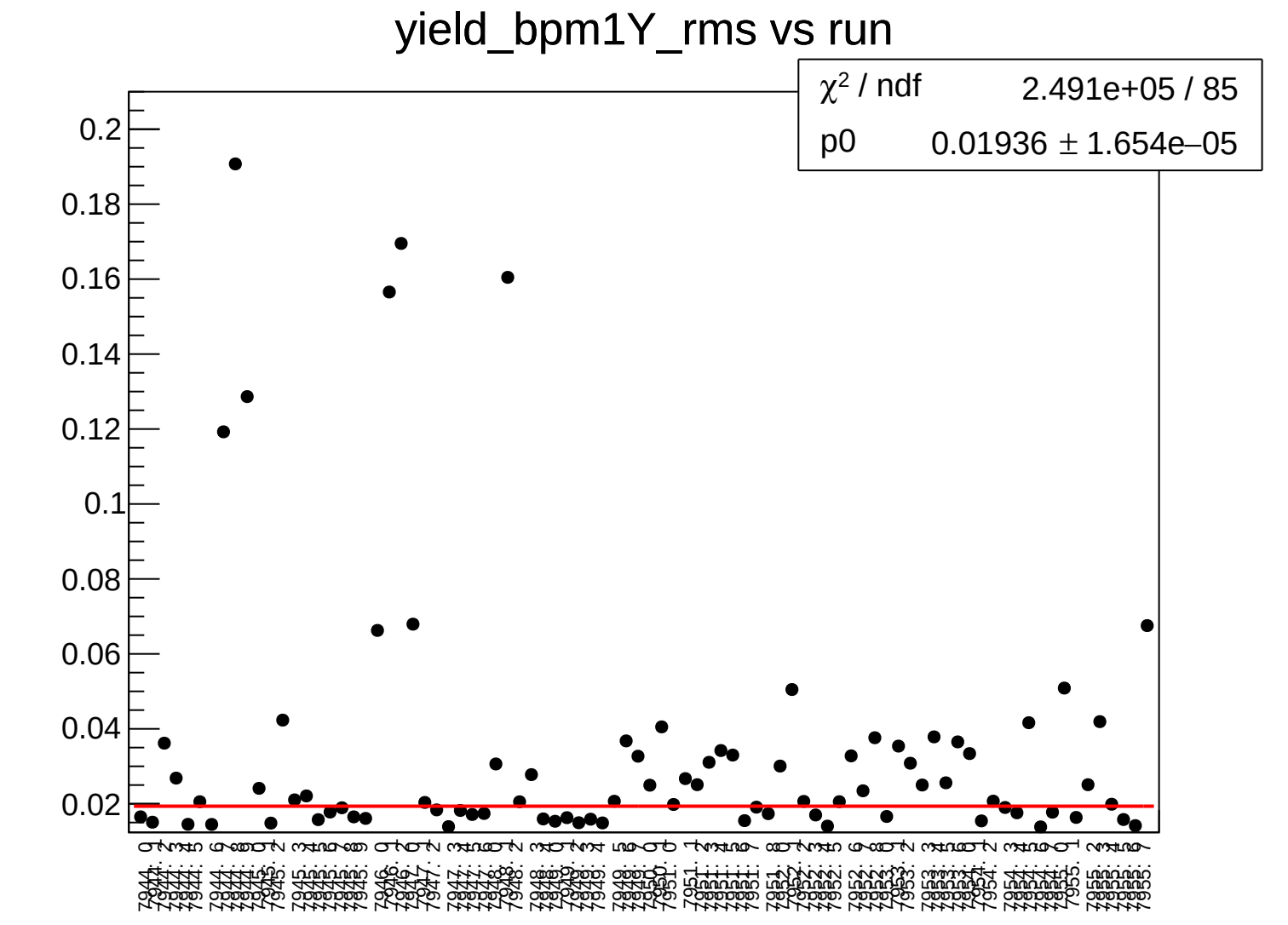

yield_bpm1X_mean vs run
χ² / ndf 4.933e+07 / 85
p0 −1.993 ± 7.592e−05
−1.5
−2
−2.5
−3
−3.5
pull
Entries 86
Mean 516.2
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

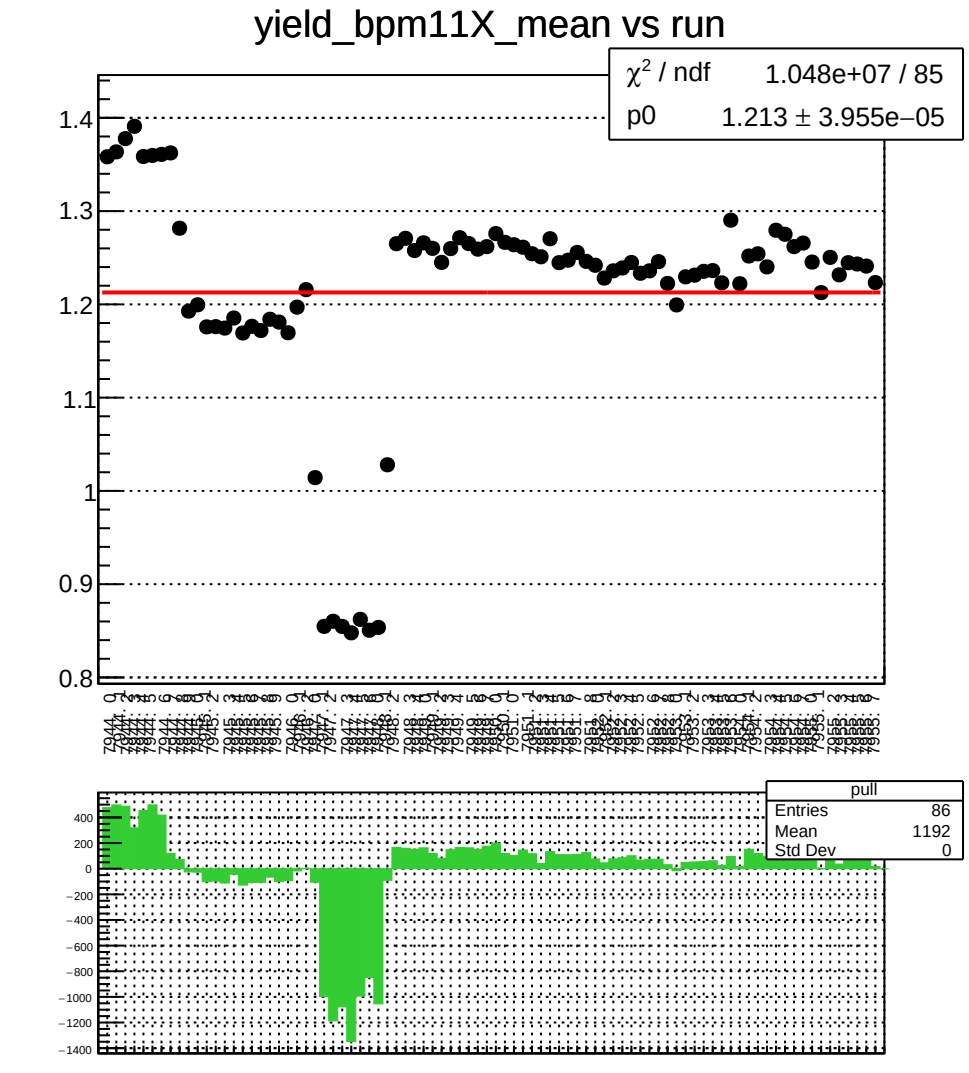

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

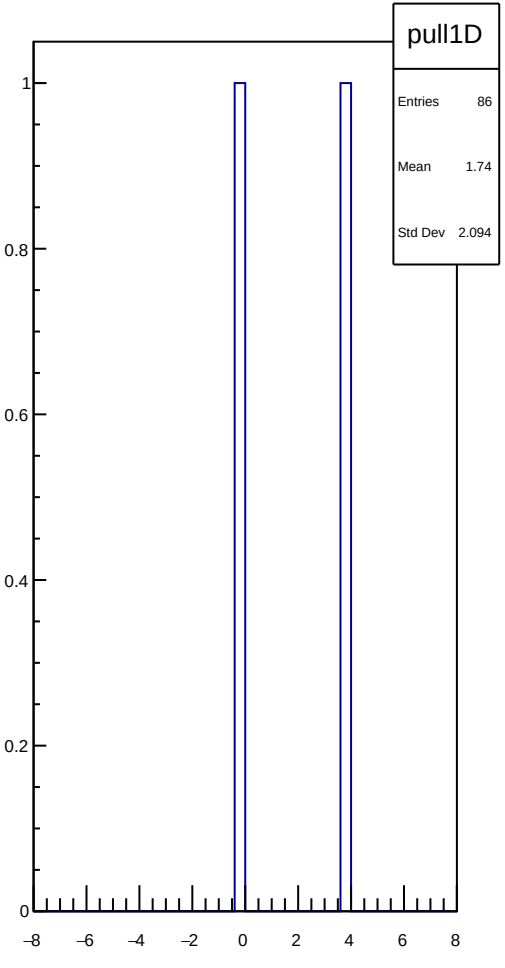

yield_bpm1X_rms vs run
χ² / ndf 1.14e+05 / 85
p0 0.06587 ± 5.369e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

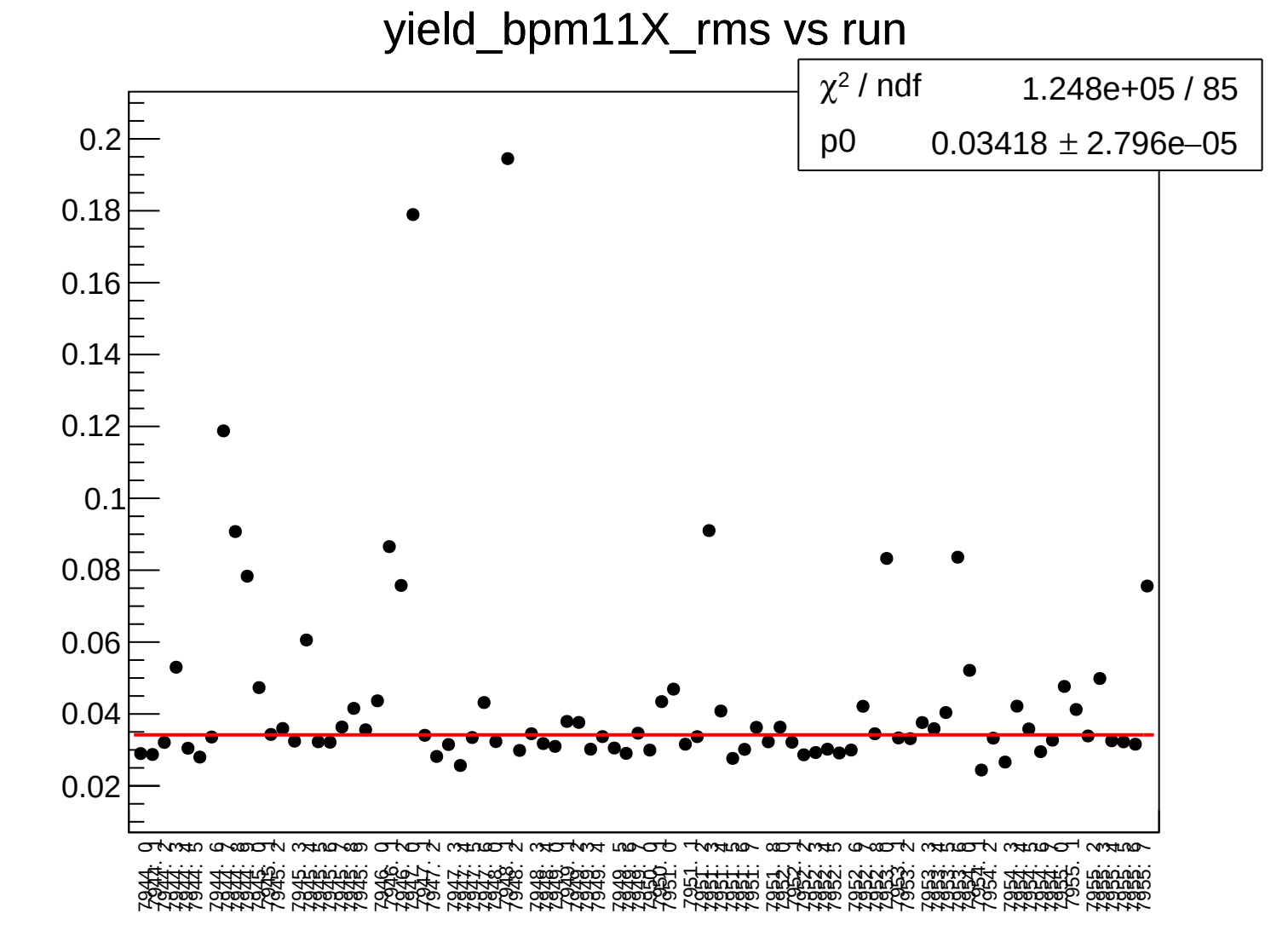

yield_bpm1Y_mean vs run
χ² / ndf 8.521e+07 / 85
p0 2.065 ± 2.339e−05
pull
Entries 86
Mean −273.2
Std Dev 0

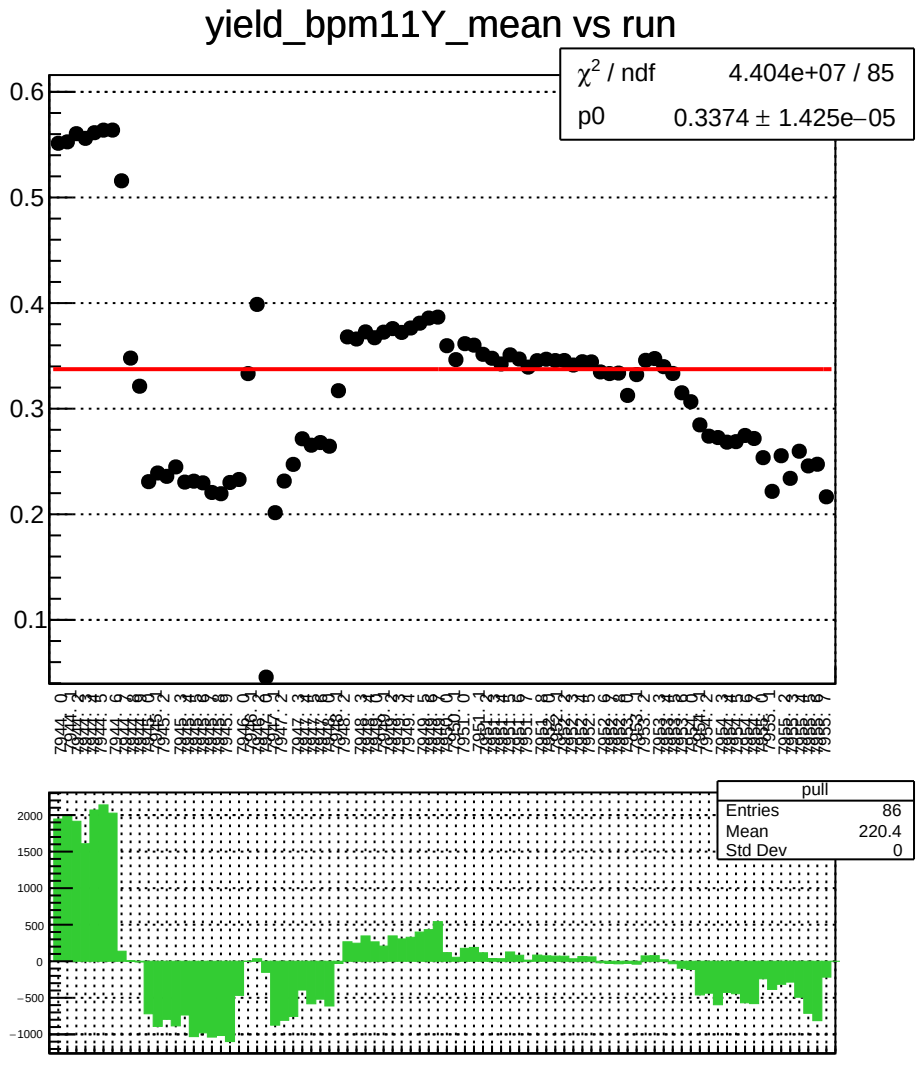

pull1D
Entries 86
Mean 0
Std Dev 0

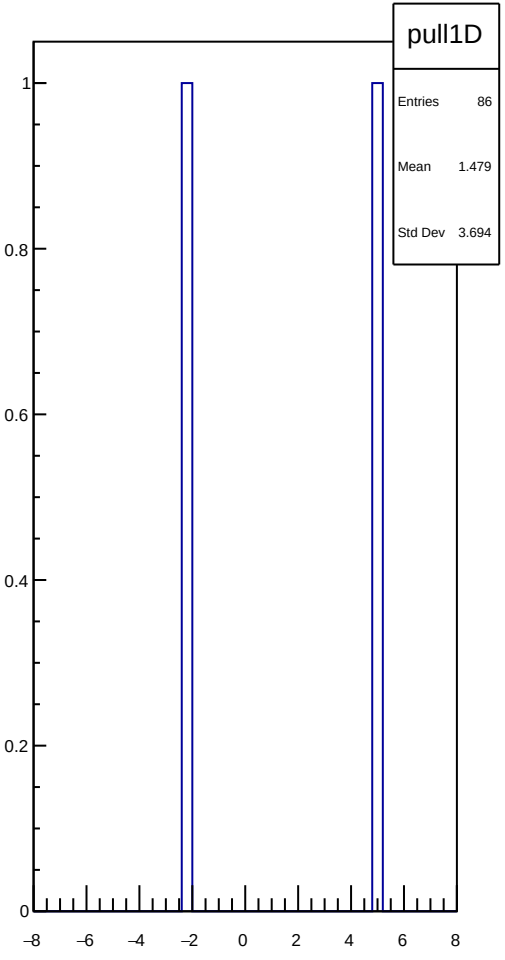

yield_bpm1Y_rms vs run
χ² / ndf 2.491e+05 / 85
p0 0.01936 ± 1.654e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

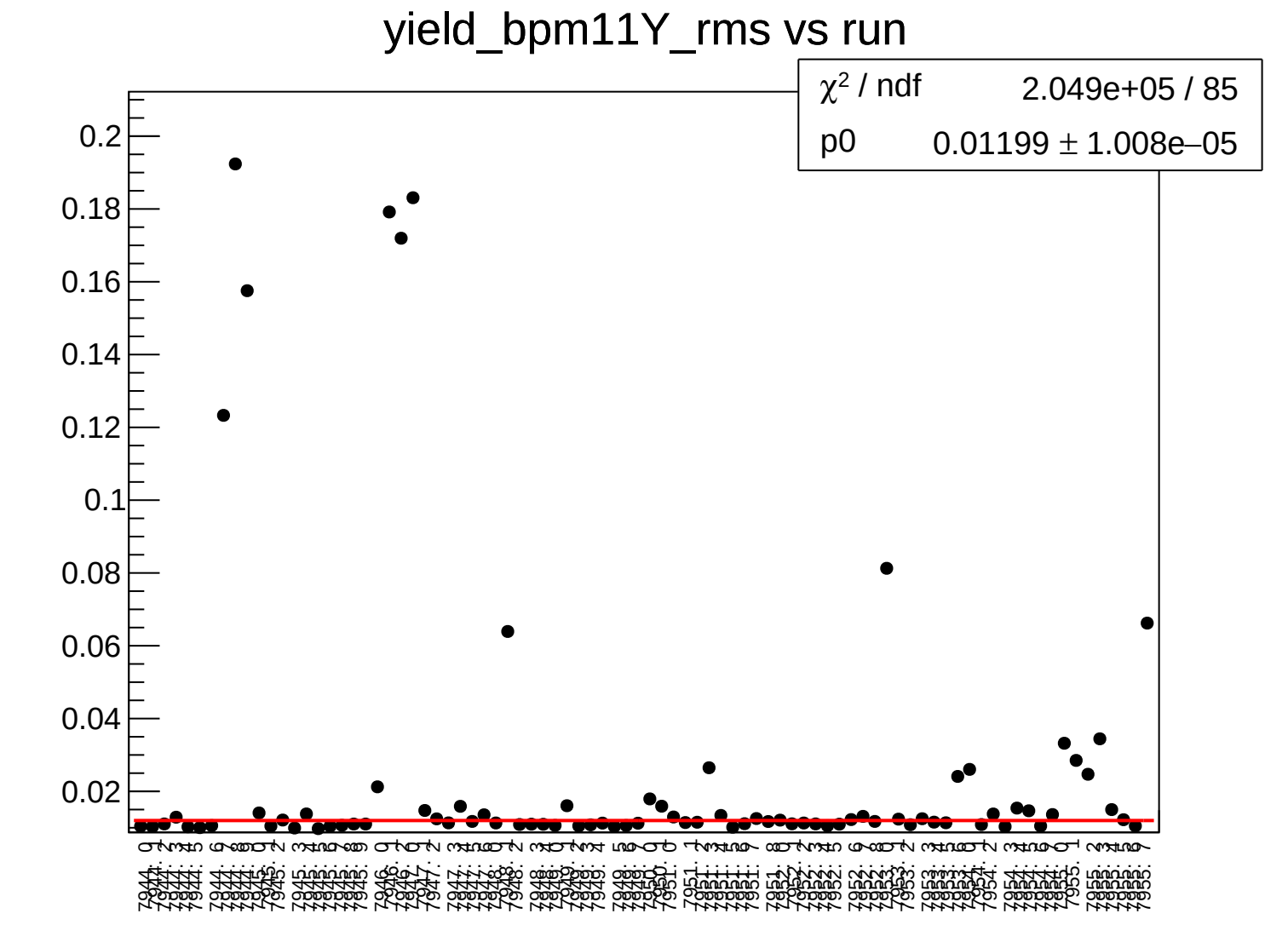

yield_bpm11X_mean vs run
χ² / ndf 1.048e+07 / 85
p0 1.213 ± 3.955e−05
pull
Entries 86
Mean 1192
Std Dev 0

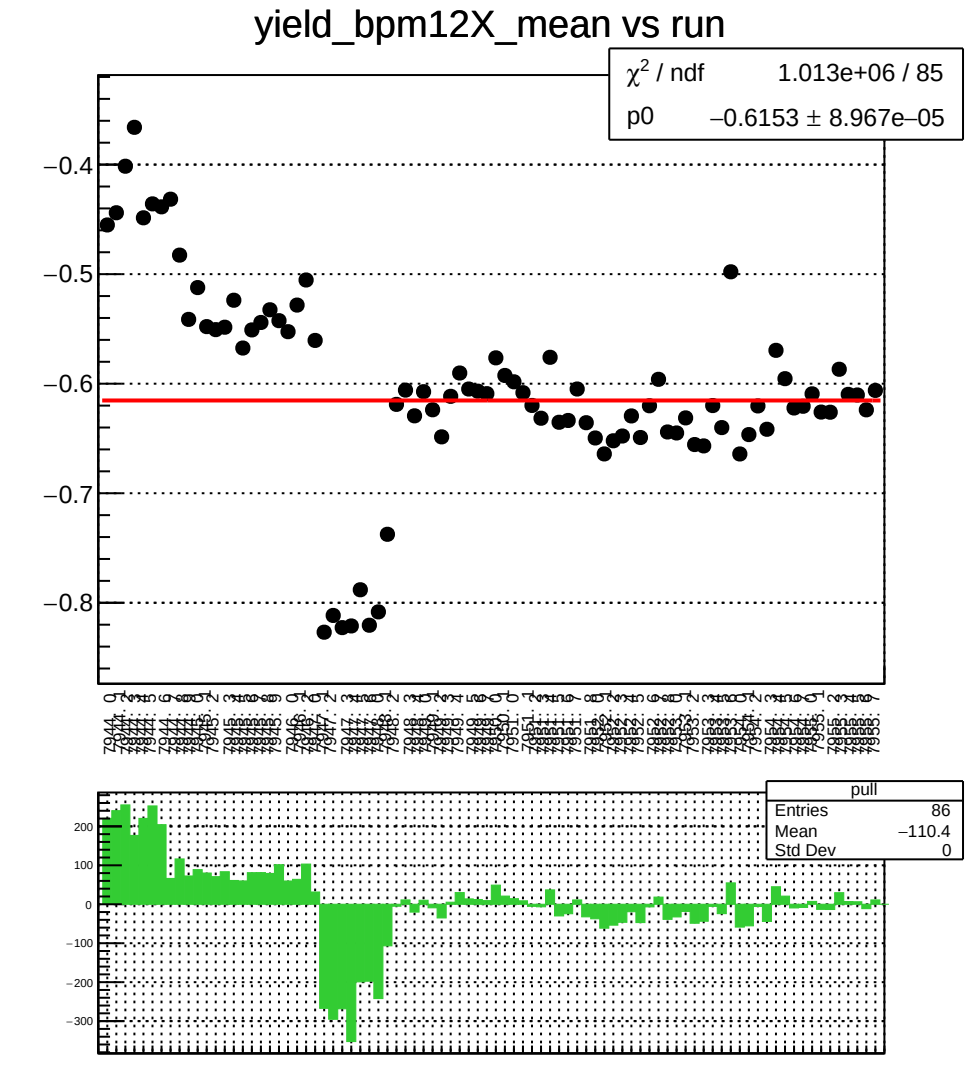

pull1D
Entries 86
Mean 1.74
Std Dev 2.094

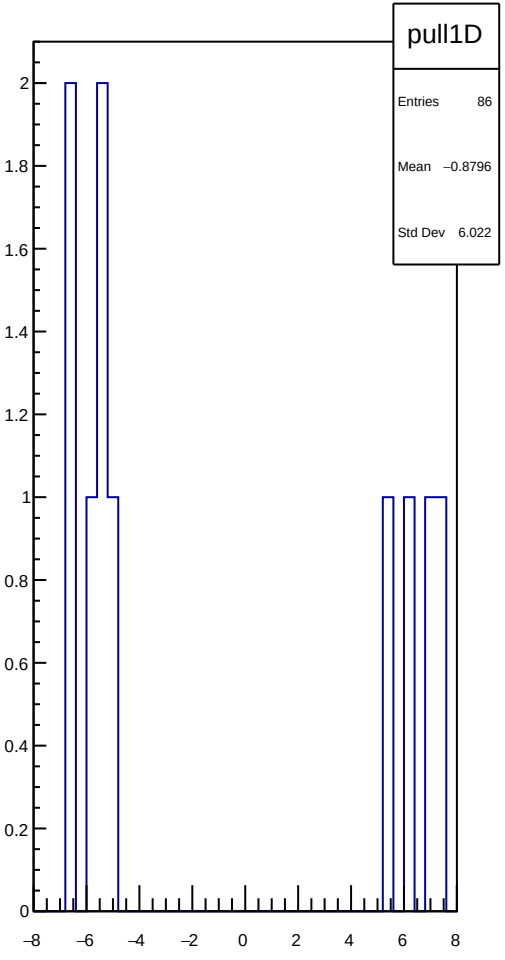

yield_bpm11X_rms vs run
χ² / ndf 1.248e+05 / 85
p0 0.03418 ± 2.796e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

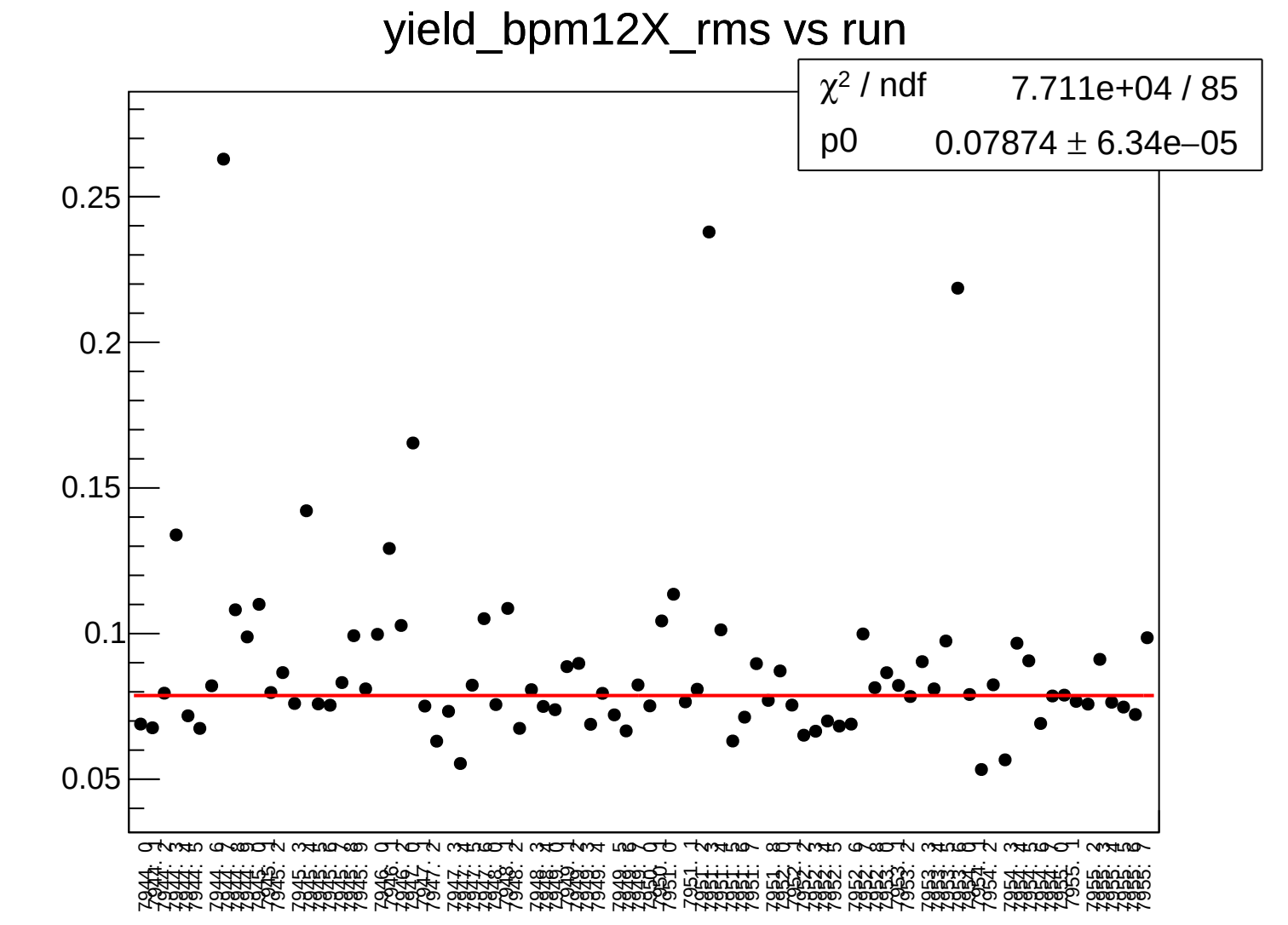

yield_bpm11Y_mean vs run
χ² / ndf 4.404e+07 / 85
p0 0.3374 ± 1.425e−05
pull
Entries 86
Mean 220.4
Std Dev 0

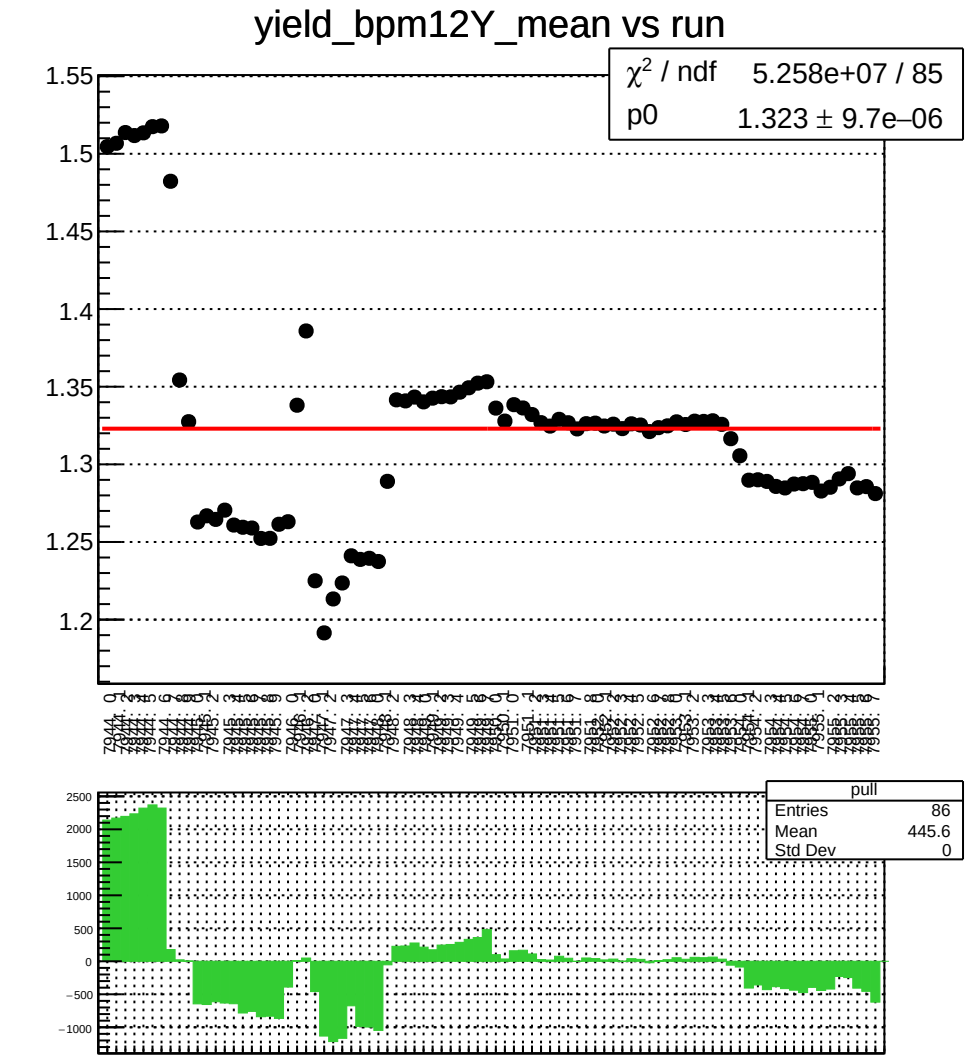

pull1D
Entries 86
Mean 1.479
Std Dev 3.694

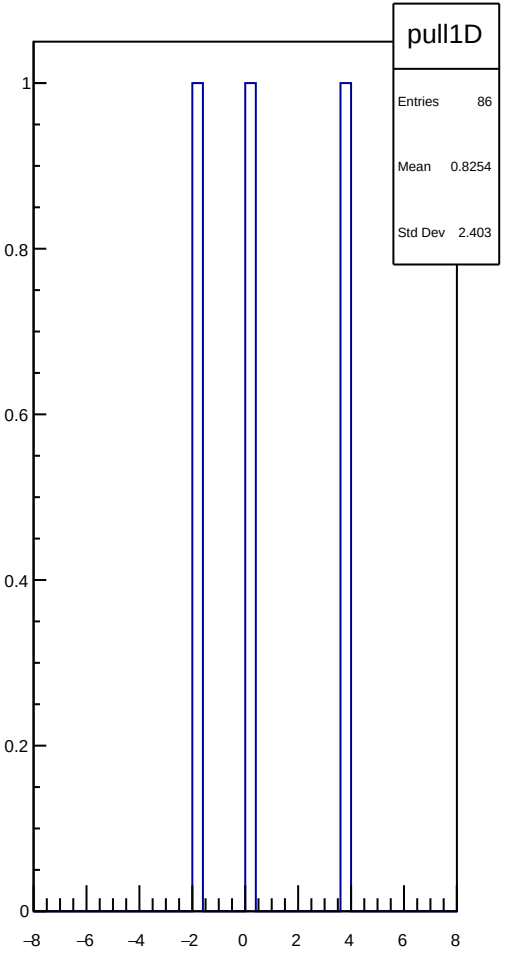

yield_bpm11Y_rms vs run
χ² / ndf 2.049e+05 / 85
p0 0.01199 ± 1.008e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

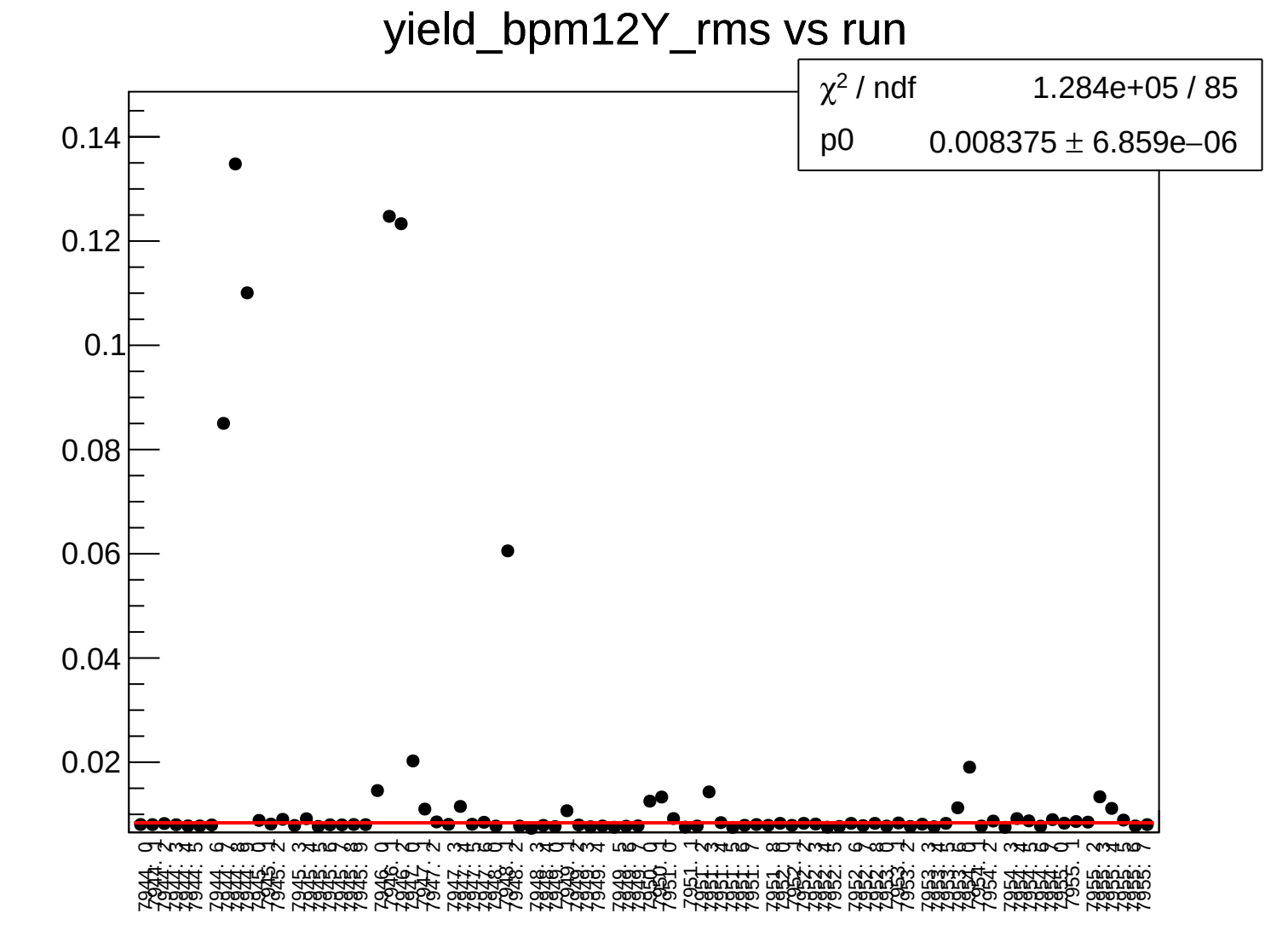

yield_bpm12X_mean vs run
χ² / ndf 1.013e+06 / 85
p0 −0.6153 ± 8.967e−05
−0.4
−0.5
−0.6
−0.7
−0.8
pull
Entries 86
Mean −110.4
Std Dev 0
200
100
0
−100
−200
−300

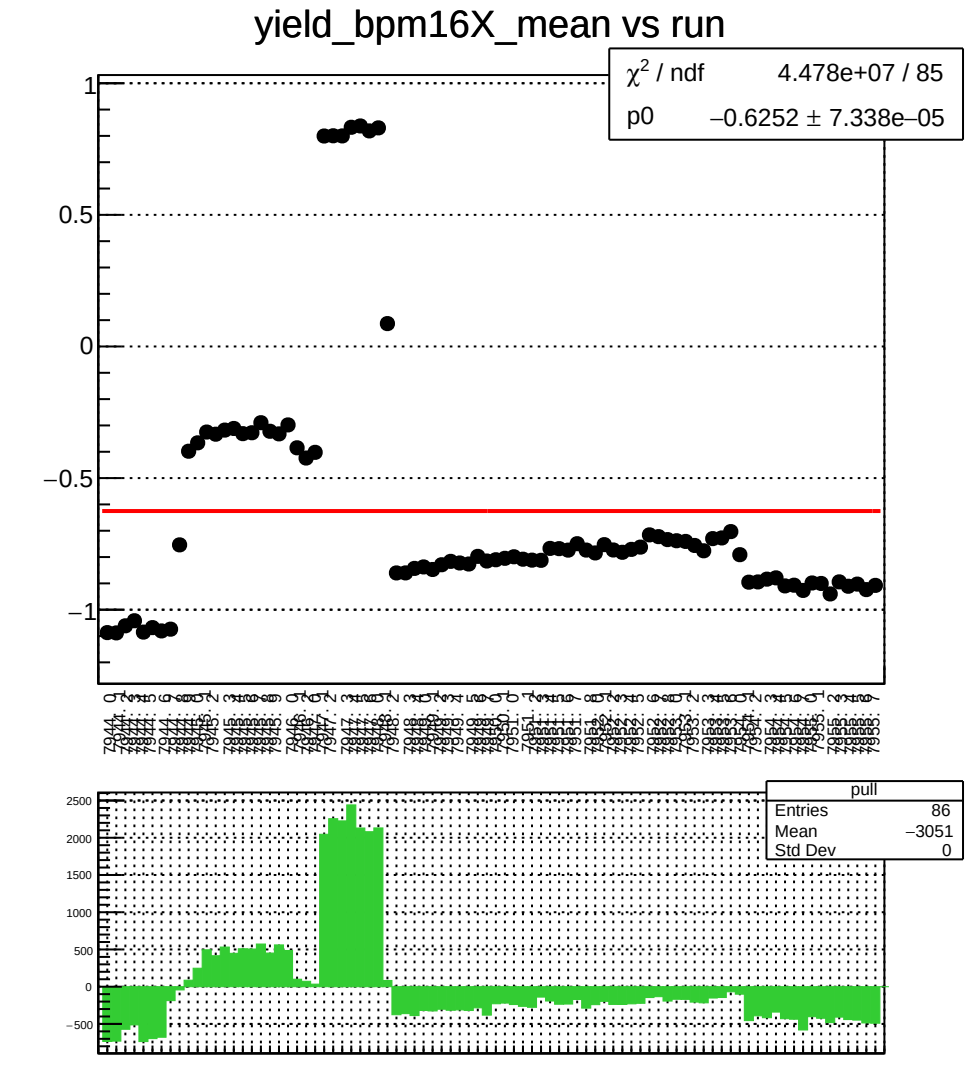

pull1D
Entries 86
Mean −0.8796
Std Dev 6.022
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

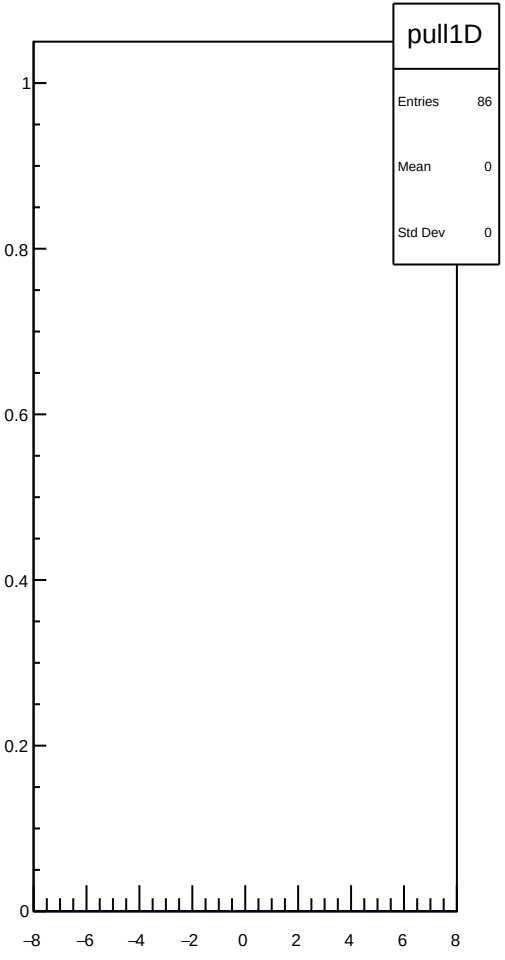

yield_bpm12X_rms vs run
χ² / ndf 7.711e+04 / 85
p0 0.07874 ± 6.34e−05
0.25
0.2
0.15
0.1
0.05

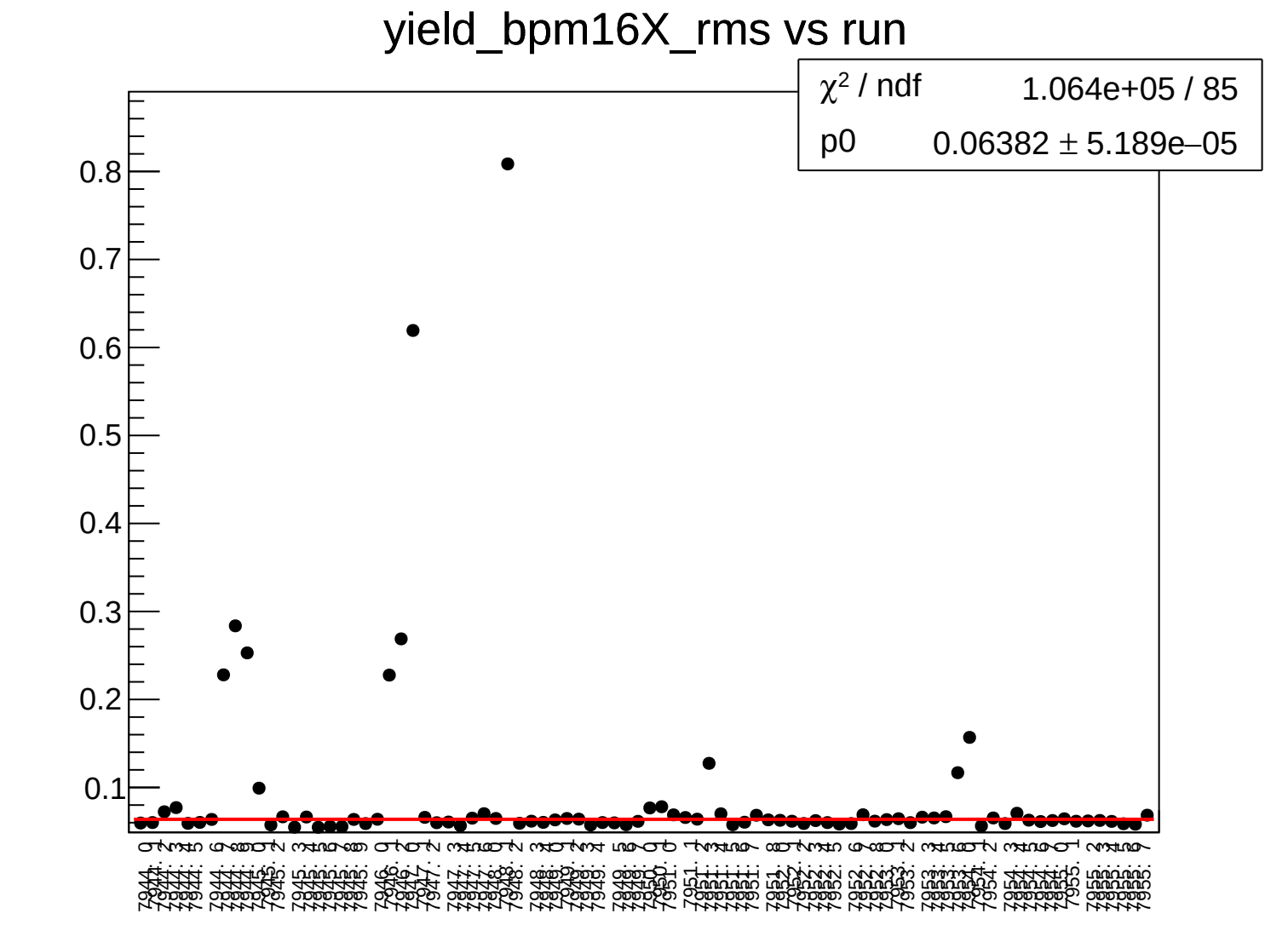

yield_bpm12Y_mean vs run
χ² / ndf 5.258e+07 / 85
p0 1.323 ± 9.7e–06
pull
Entries 86
Mean 445.6
Std Dev 0

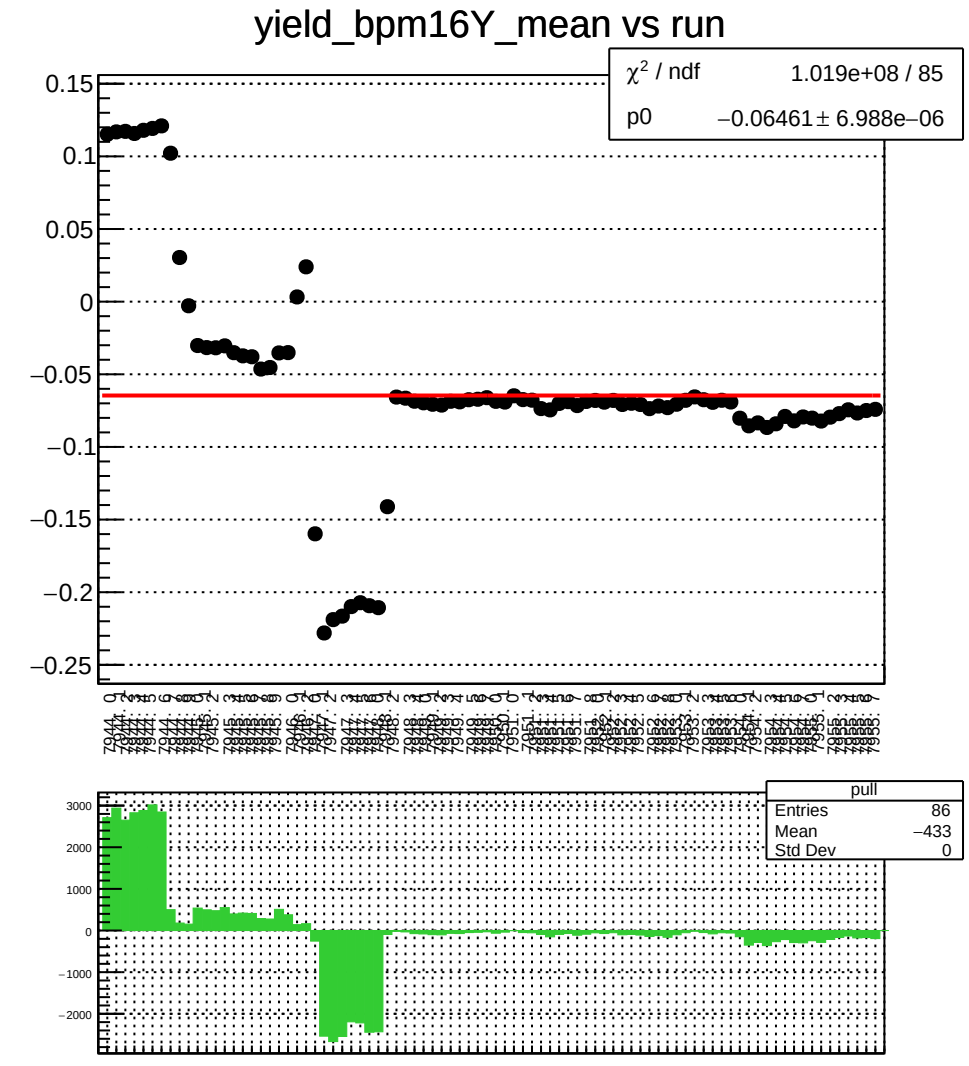

pull1D
Entries 86
Mean 0.8254
Std Dev 2.403

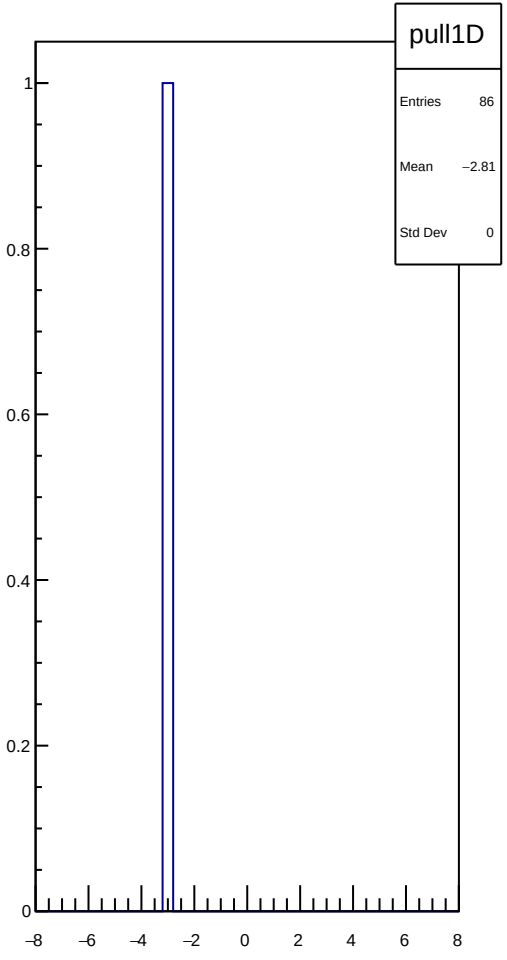

yield_bpm12Y_rms vs run
χ² / ndf 1.284e+05 / 85
p0 0.008375 ± 6.859e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

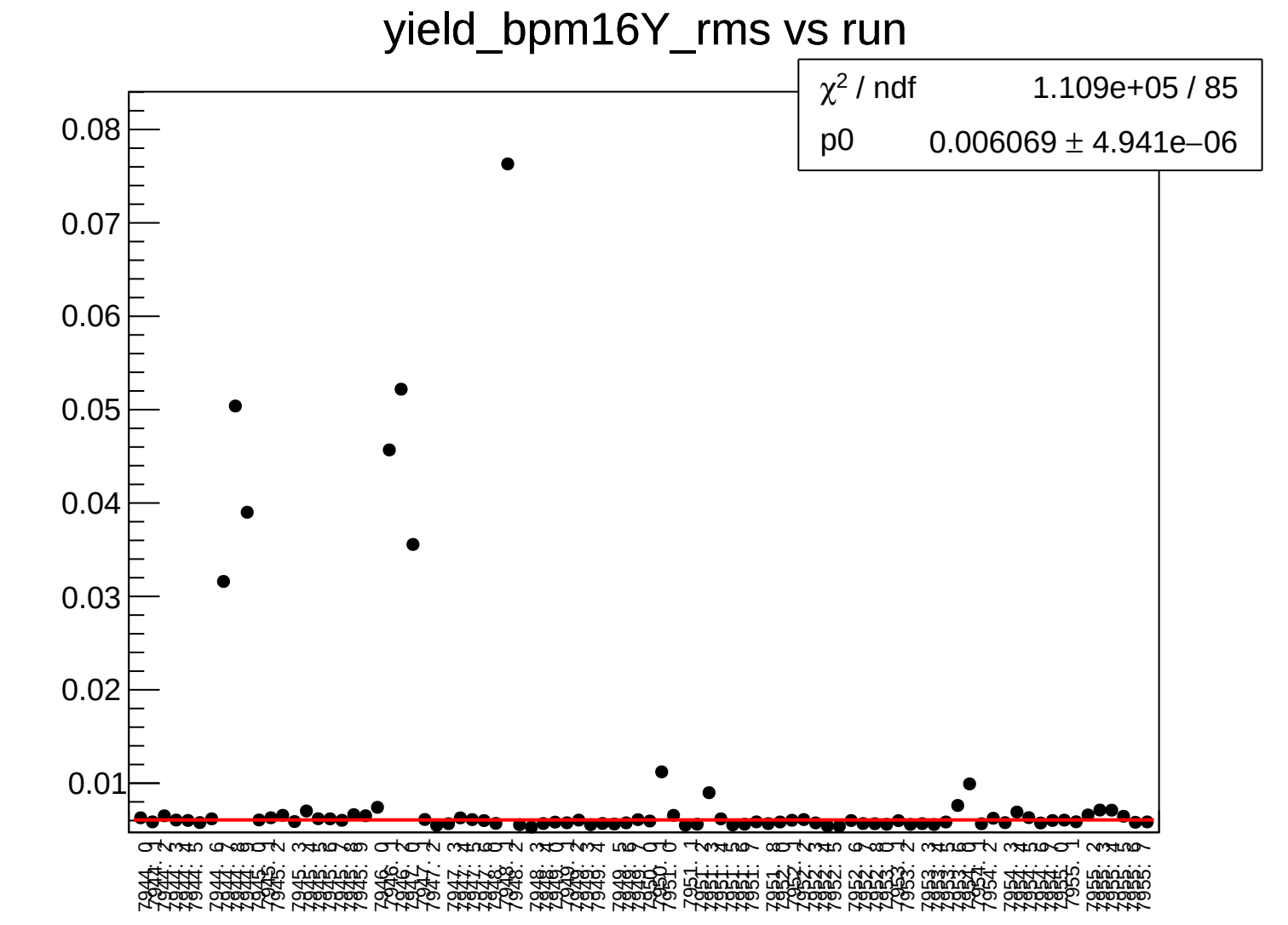

yield_bpm16X_mean vs run
χ² / ndf 4.478e+07 / 85
p0 −0.6252 ± 7.338e−05
pull
Entries 86
Mean −3051
Std Dev 0

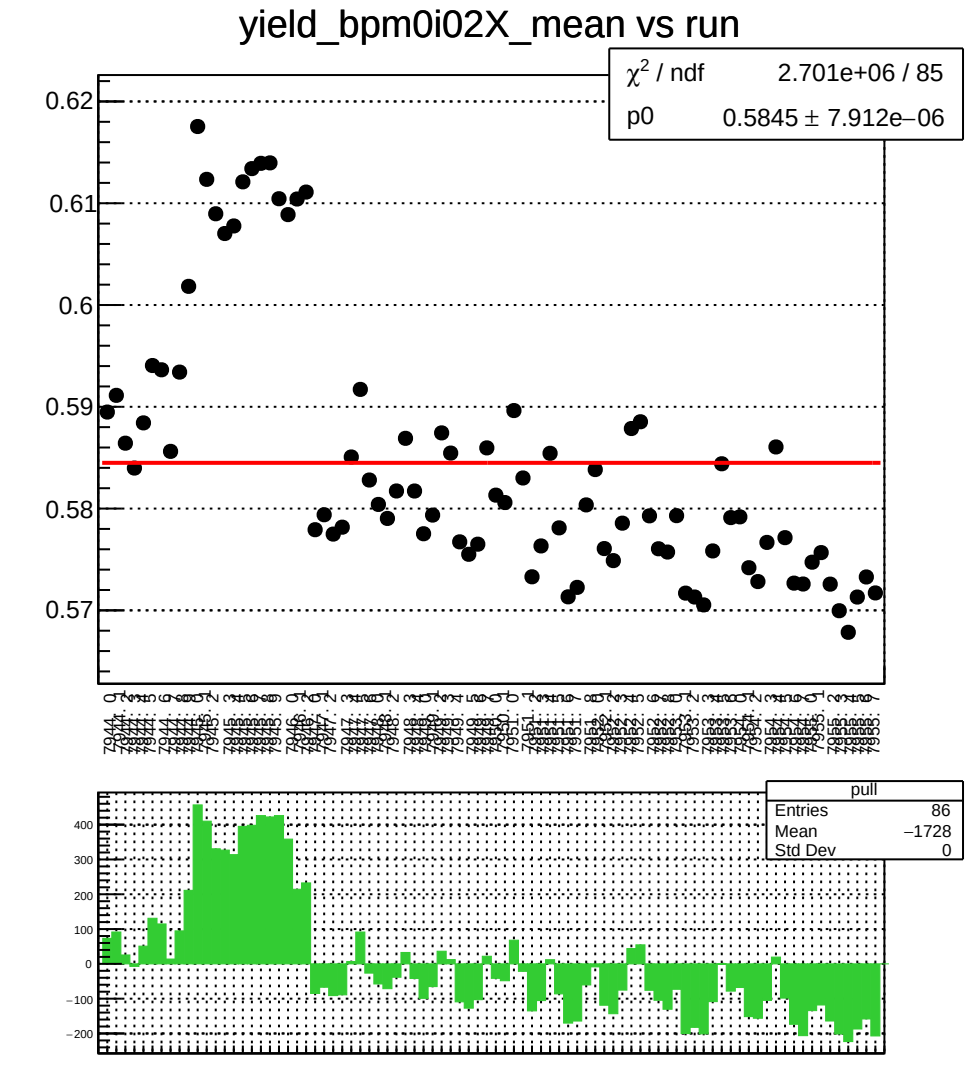

pull1D
Entries 86
Mean 0
Std Dev 0

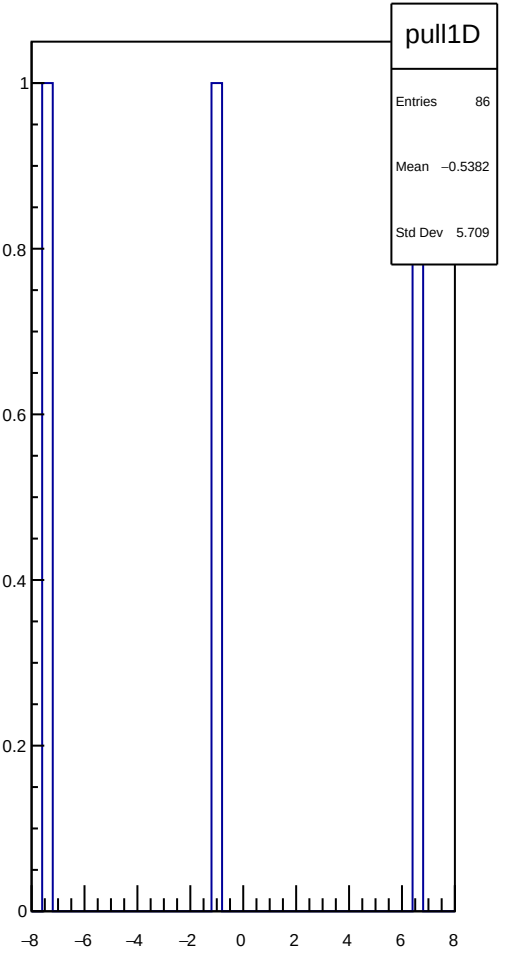

yield_bpm16X_rms vs run
χ² / ndf 1.064e+05 / 85
p0 0.06382 ± 5.189e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

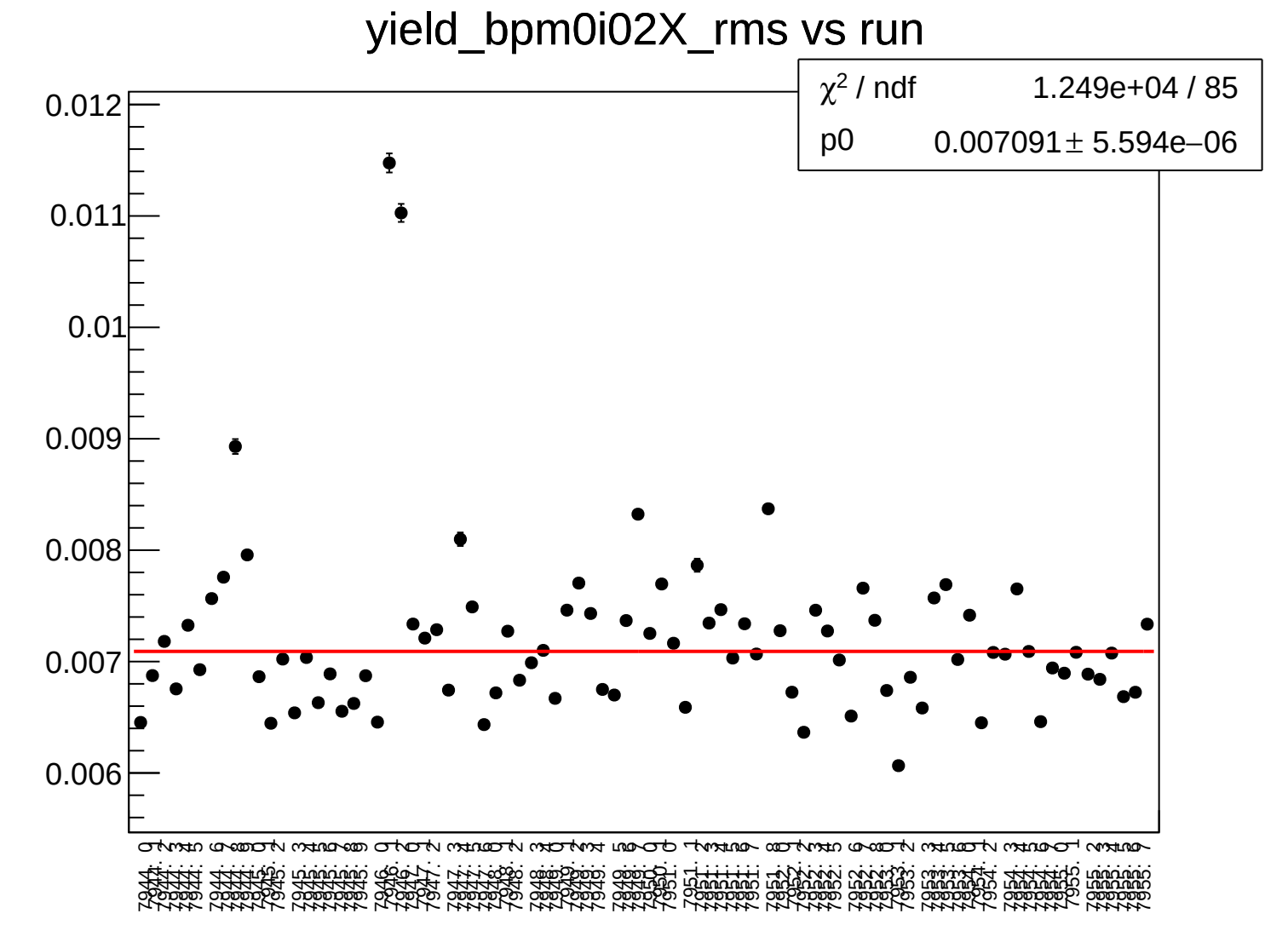

yield_bpm16Y_mean vs run
χ² / ndf 1.019e+08 / 85
p0 −0.06461 ± 6.988e−06
pull
Entries 86
Mean −433
Std Dev 0

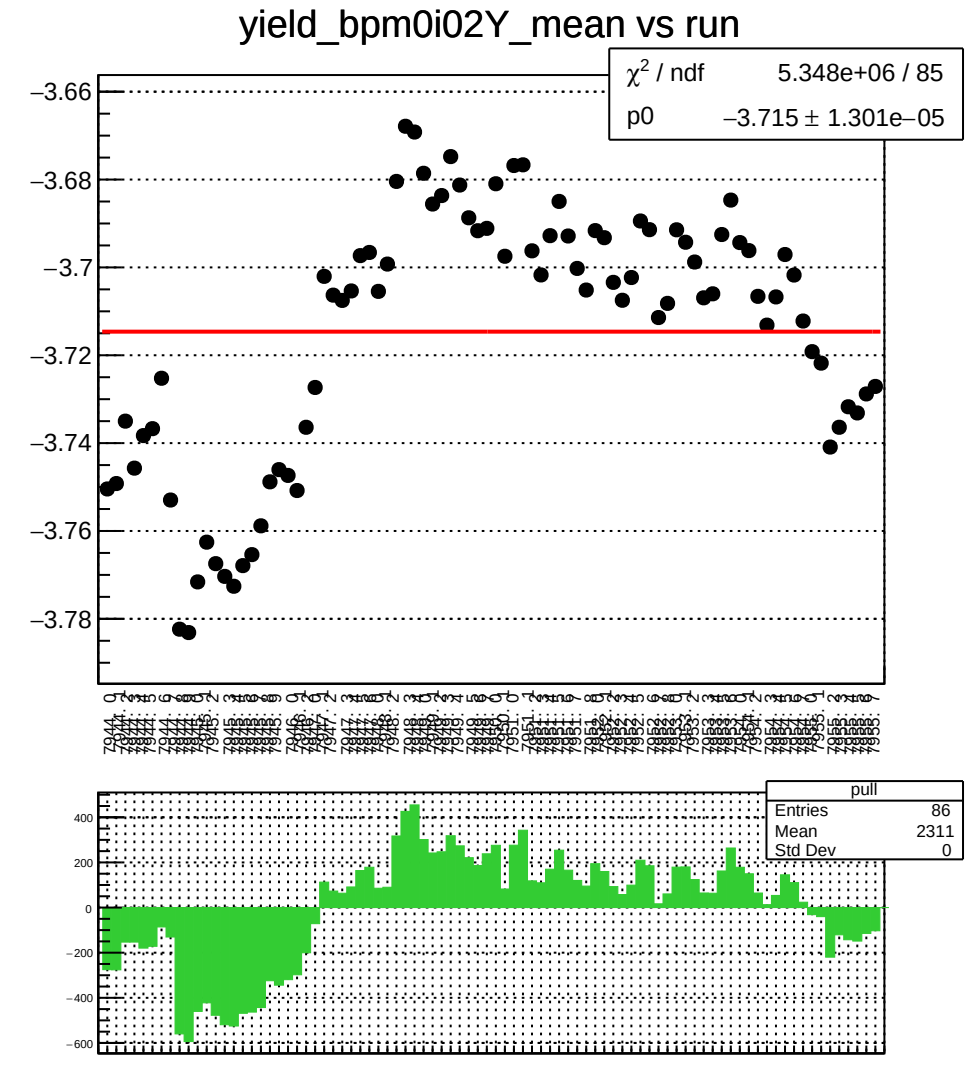

pull1D
Entries 86
Mean −2.81
Std Dev 0

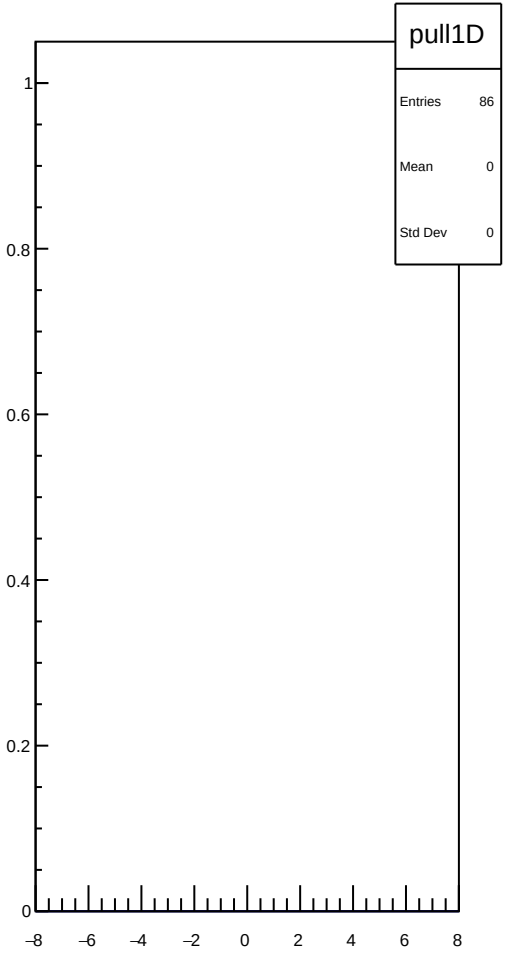

yield_bpm16Y_rms vs run
χ^2 / ndf 1.109e+05 / 85
p0 0.006069 ± 4.941e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

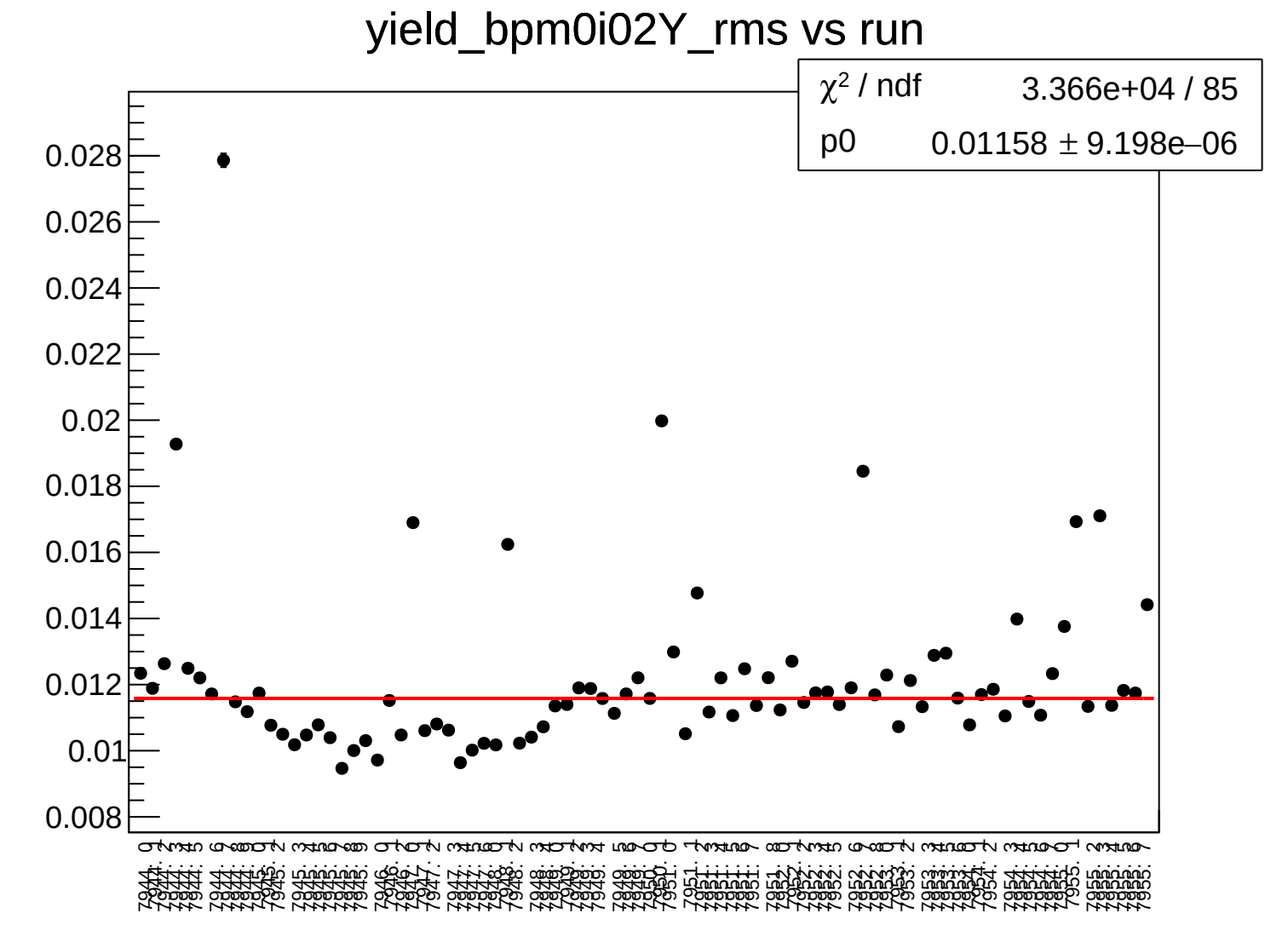

yield_bpm0i02X_mean vs run
χ² / ndf 2.701e+06 / 85
p0 0.5845 ± 7.912e−06
0.62
0.61
0.6
0.59
0.58
0.57
pull
Entries 86
Mean −1728
Std Dev 0
400
300
200
100
0
−100
−200

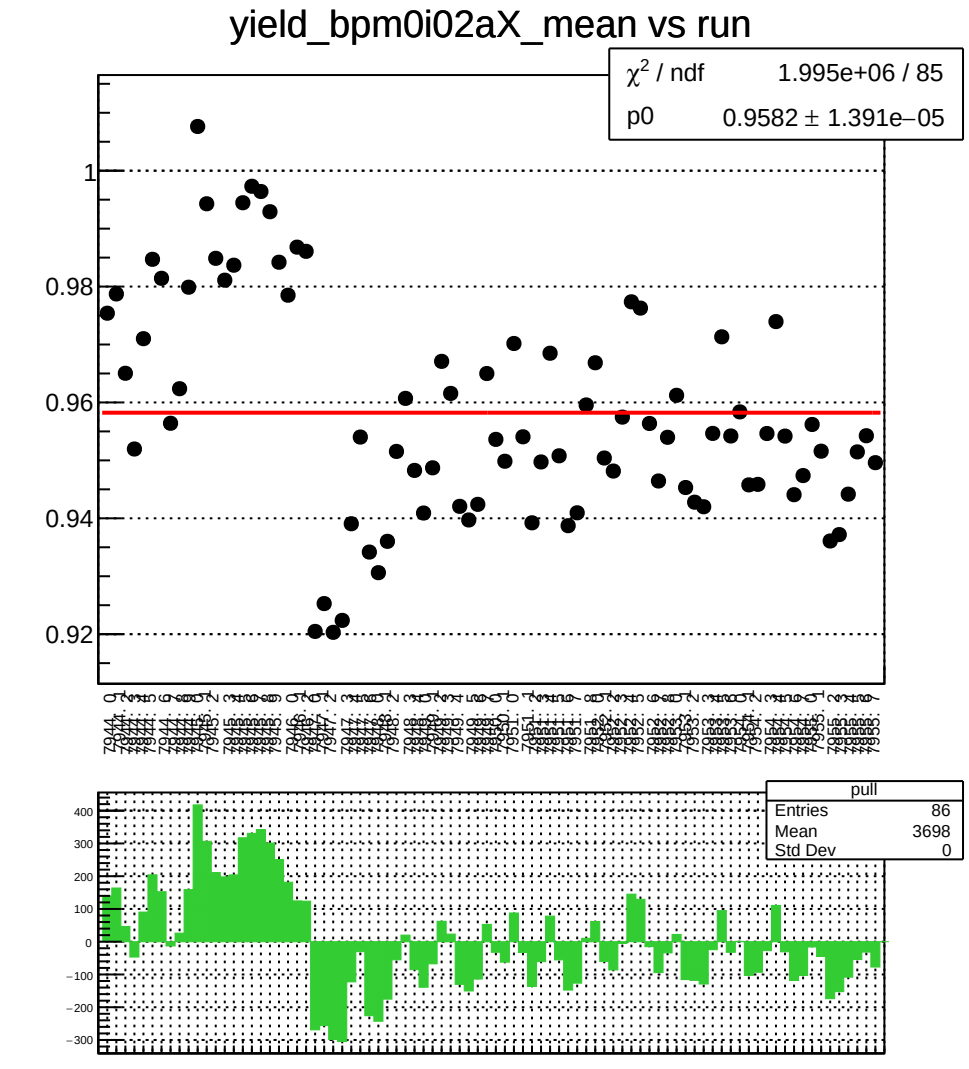

pull1D
Entries 86
Mean −0.5382
Std Dev 5.709
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

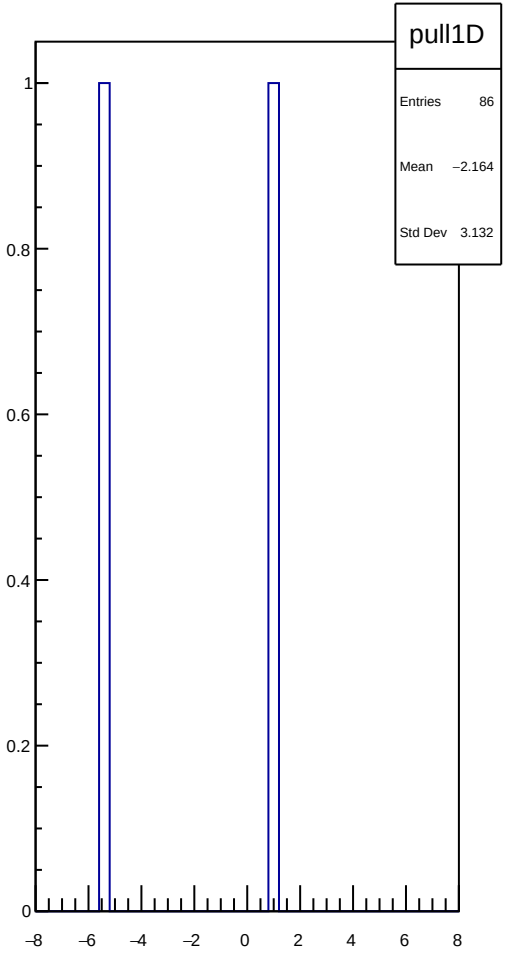

yield_bpm0i02X_rms vs run
χ² / ndf 1.249e+04 / 85
p0 0.007091 ± 5.594e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

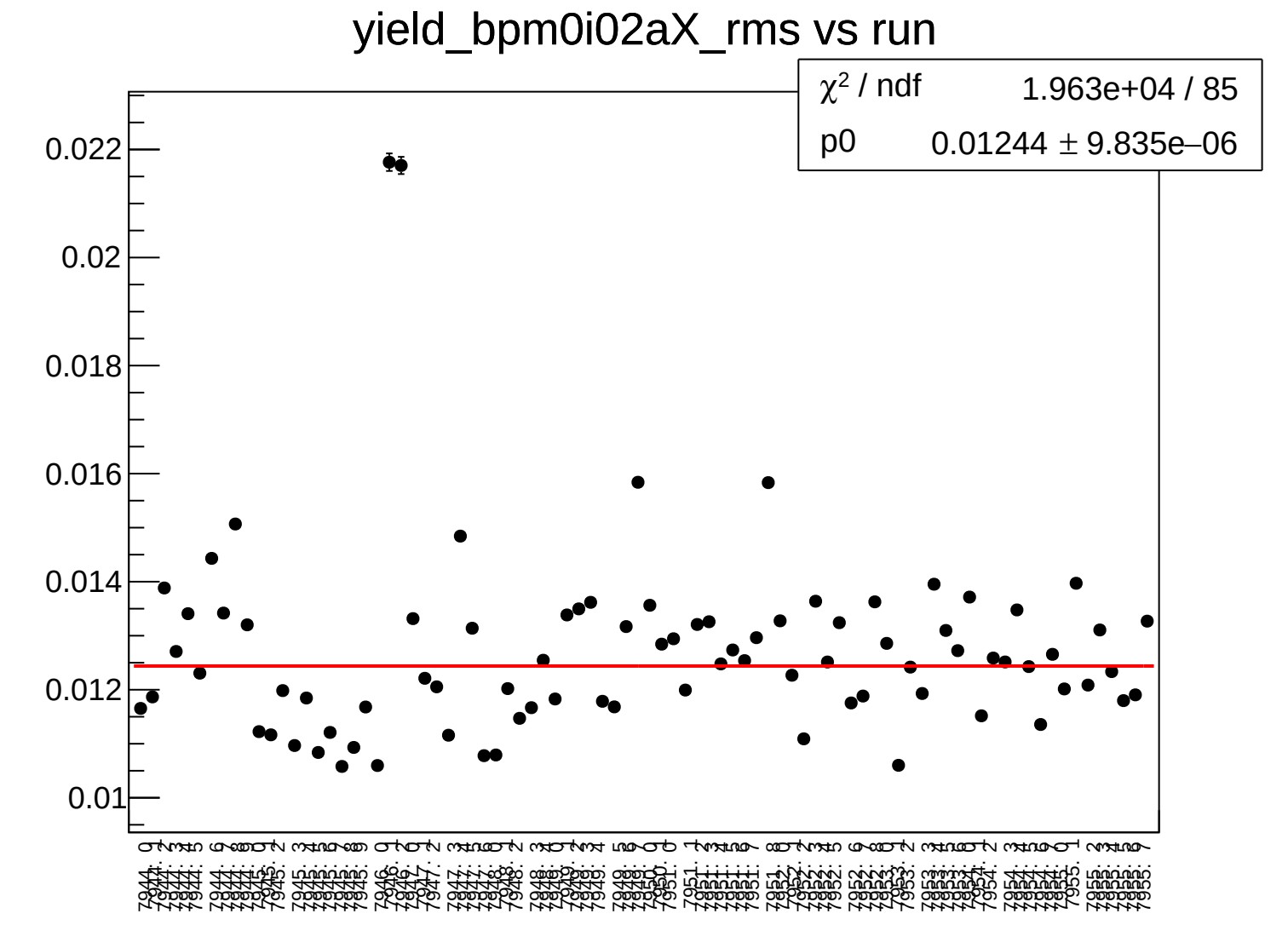

yield_bpm0i02Y_mean vs run
χ² / ndf 5.348e+06 / 85
p0 −3.715 ± 1.301e−05
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
−3.78
pull
Entries 86
Mean 2311
Std Dev 0
400
200
0
−200
−400
−600

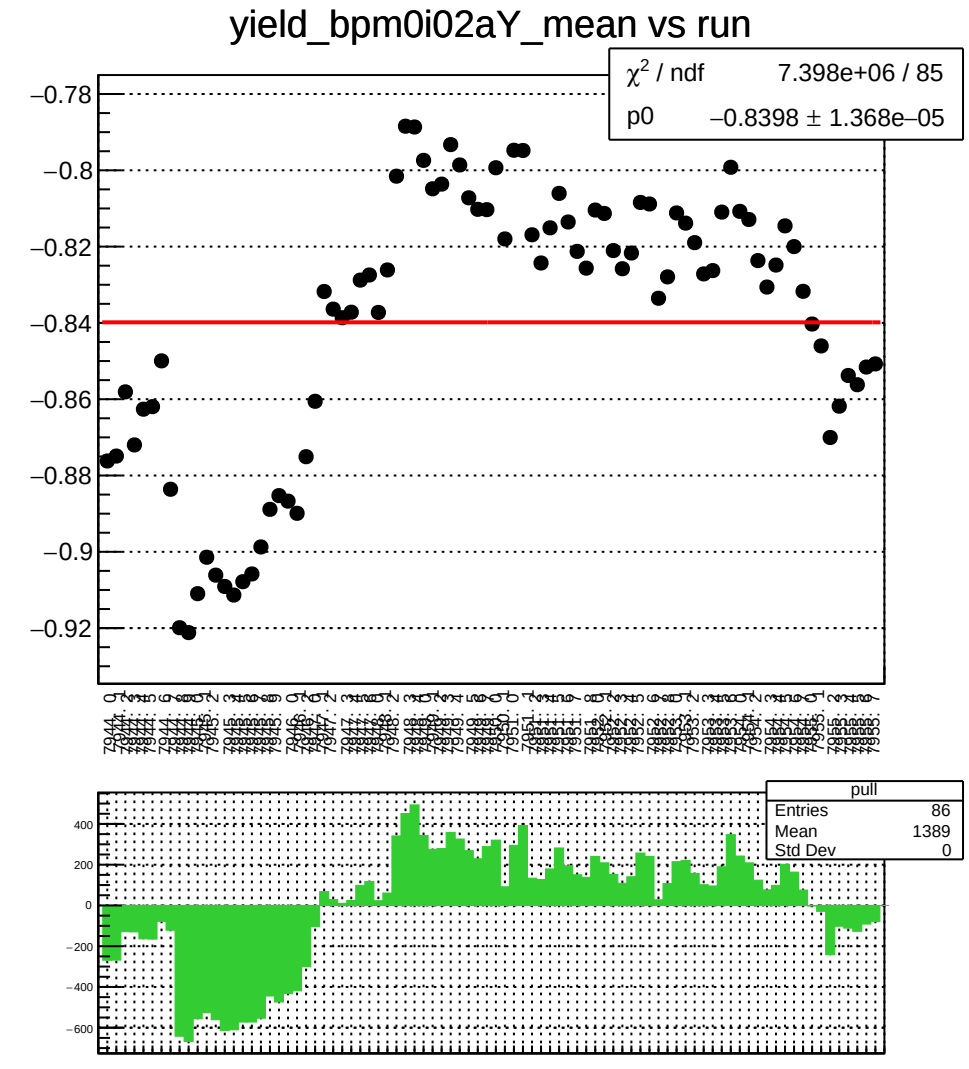

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

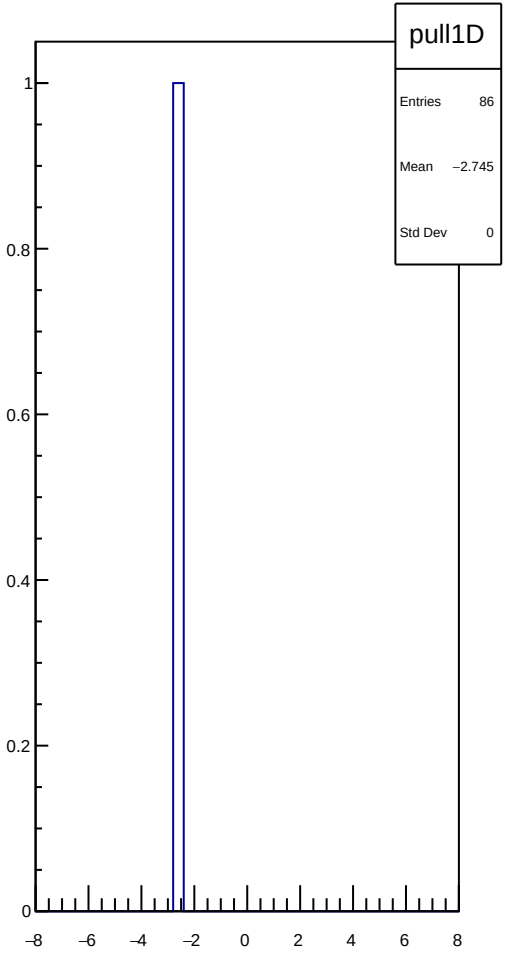

yield_bpm0i02Y_rms vs run
χ² / ndf 3.366e+04 / 85
p0 0.01158 ± 9.198e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

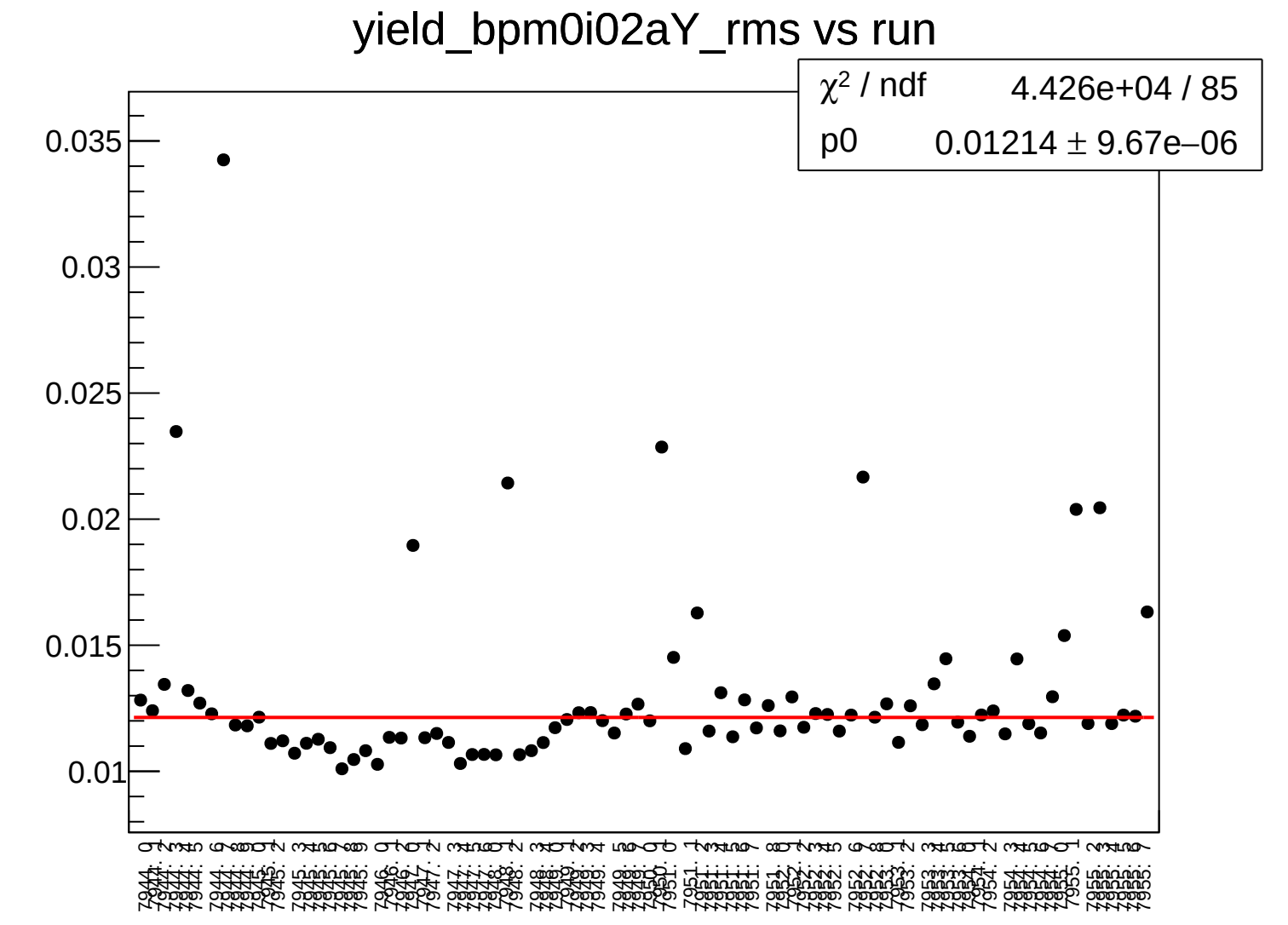

yield_bpm0i02aX_mean vs run
χ² / ndf 1.995e+06 / 85
p0 0.9582 ± 1.391e−05
1
0.98
0.96
0.94
0.92
pull
Entries 86
Mean 3698
Std Dev 0
400
300
200
100
0
−100
−200
−300

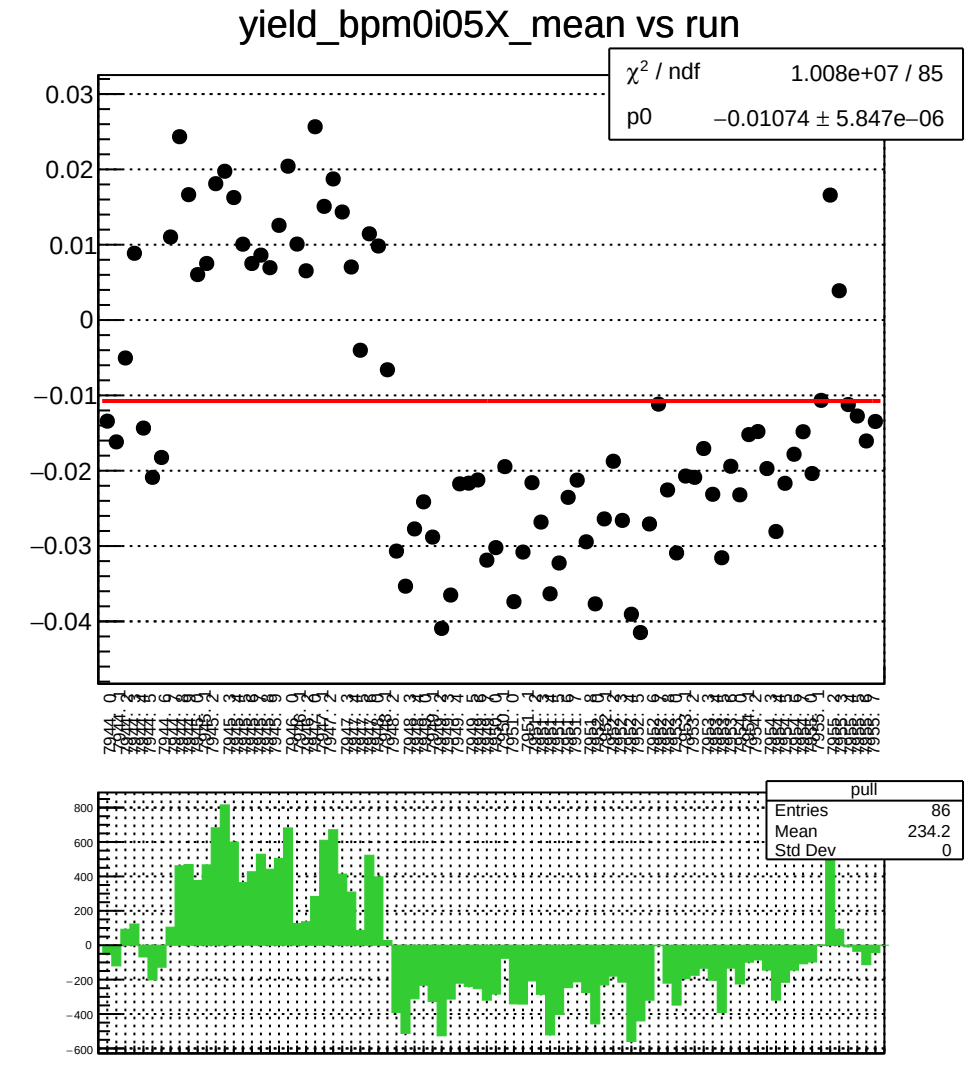

pull1D
Entries 86
Mean −2.164
Std Dev 3.132
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

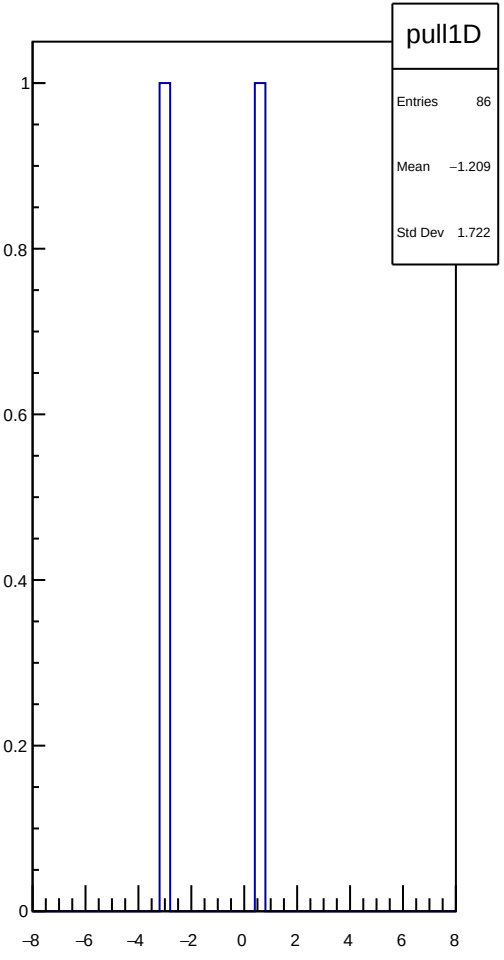

yield_bpm0i02aX_rms vs run
χ² / ndf 1.963e+04 / 85
p0 0.01244 ± 9.835e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

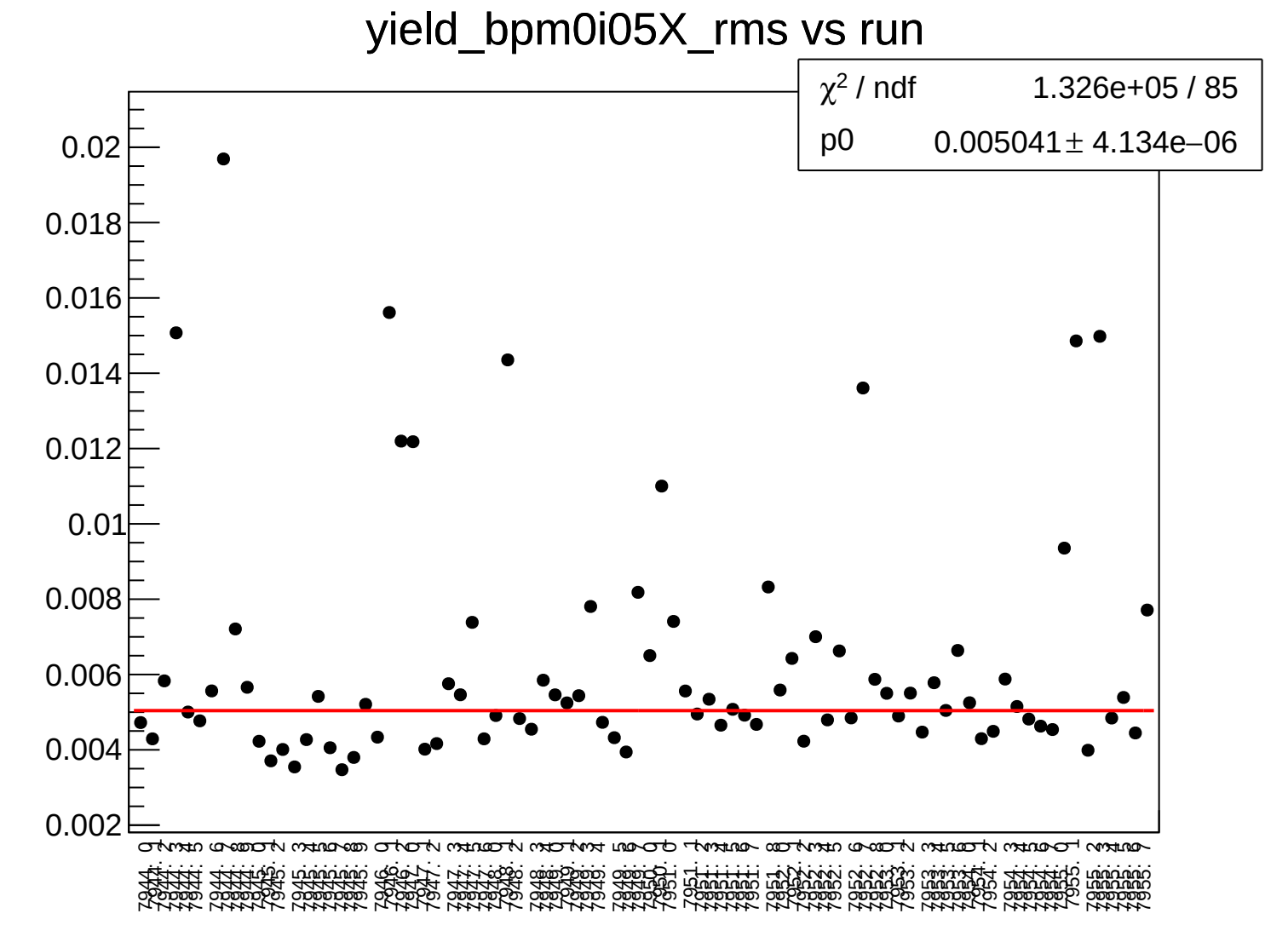

yield_bpm0i02aY_mean vs run
χ² / ndf 7.398e+06 / 85
p0 −0.8398 ± 1.368e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
pull
Entries 86
Mean 1389
Std Dev 0
400
200
0
−200
−400
−600

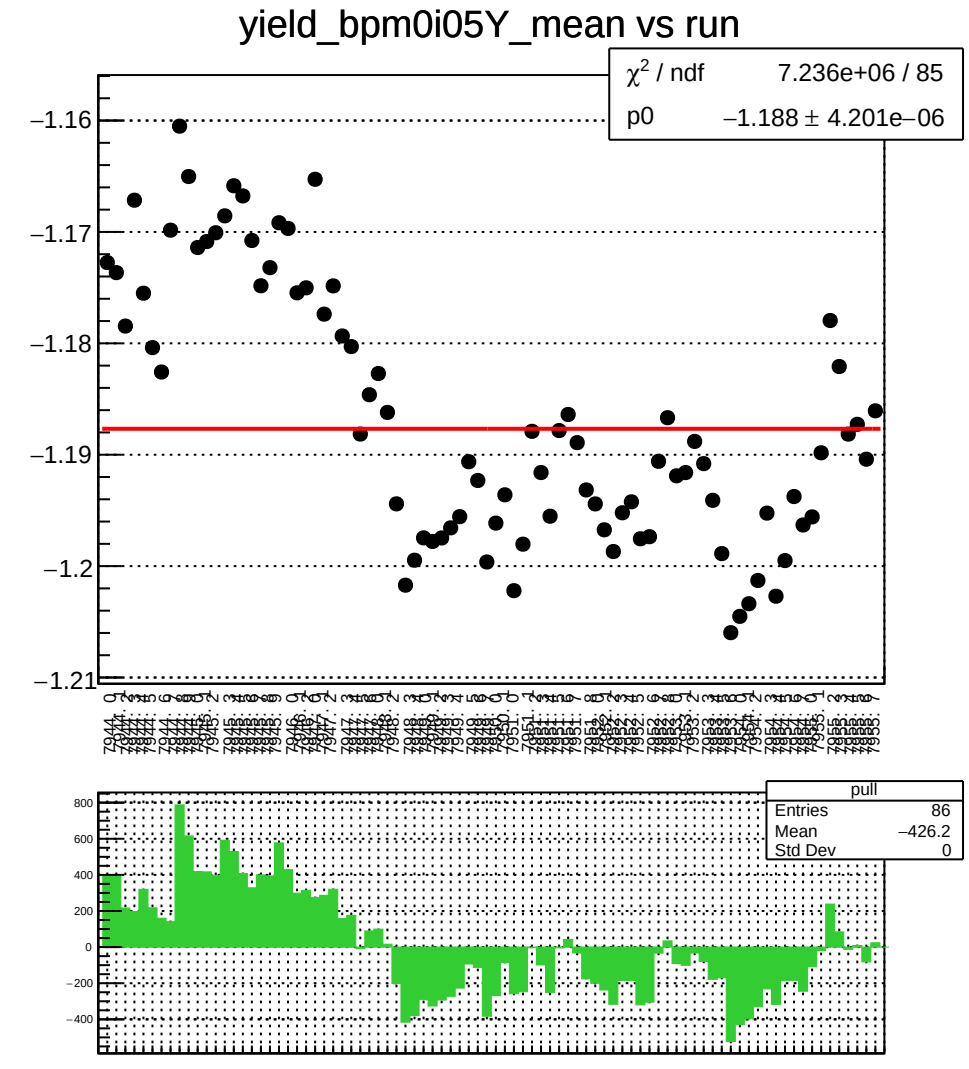

pull1D
Entries 86
Mean −2.745
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

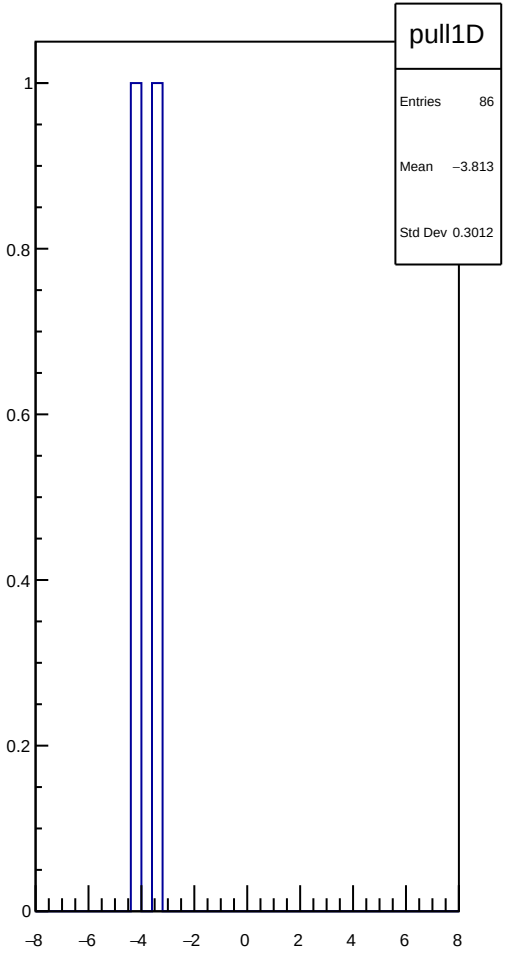

yield_bpm0i02aY_rms vs run
χ² / ndf 4.426e+04 / 85
p0 0.01214 ± 9.67e−06
0.035
0.03
0.025
0.02
0.015
0.01

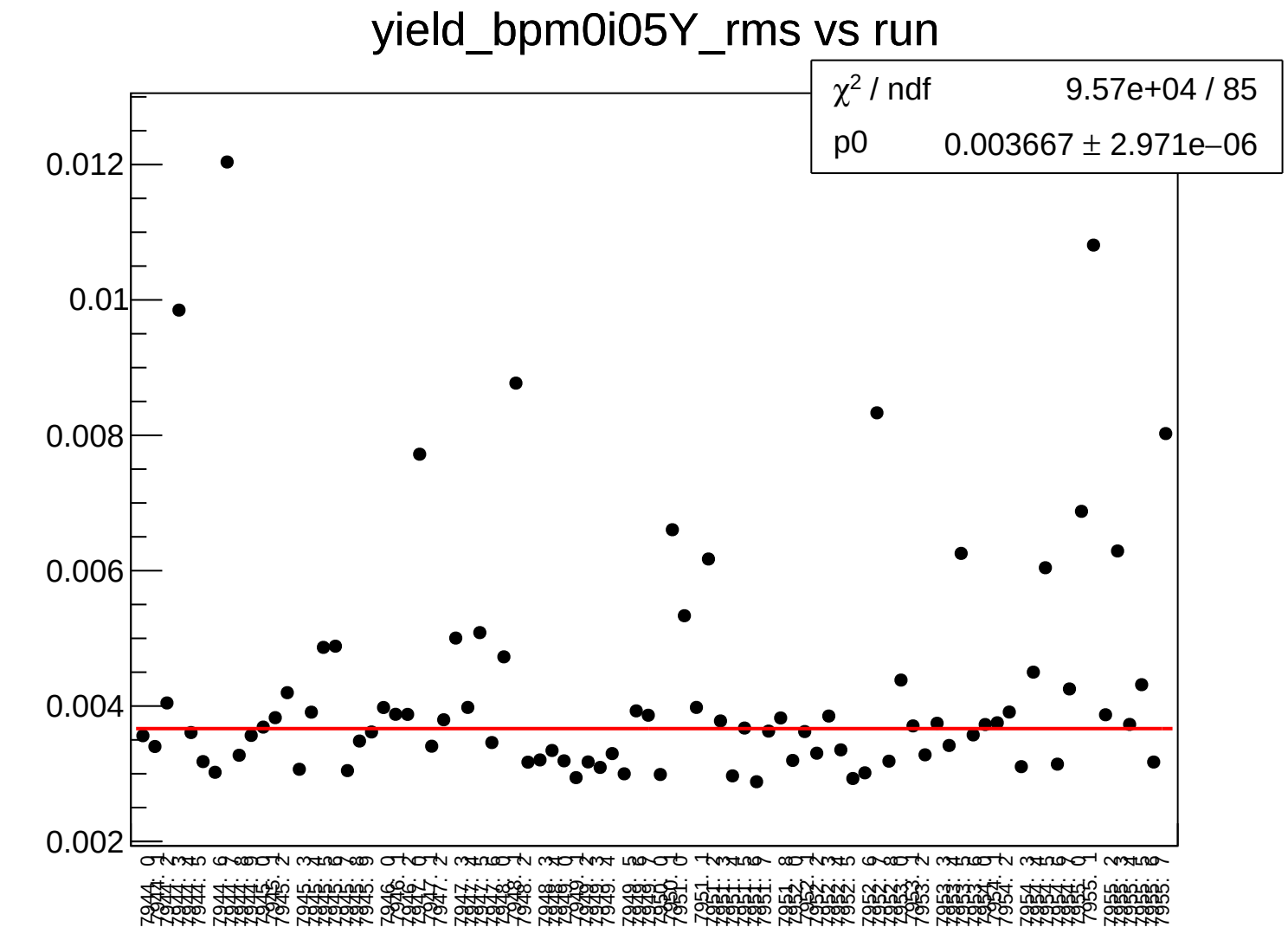

yield_bpm0i05X_mean vs run
χ² / ndf 1.008e+07 / 85
p0 −0.01074 ± 5.847e−06
pull
Entries 86
Mean 234.2
Std Dev 0

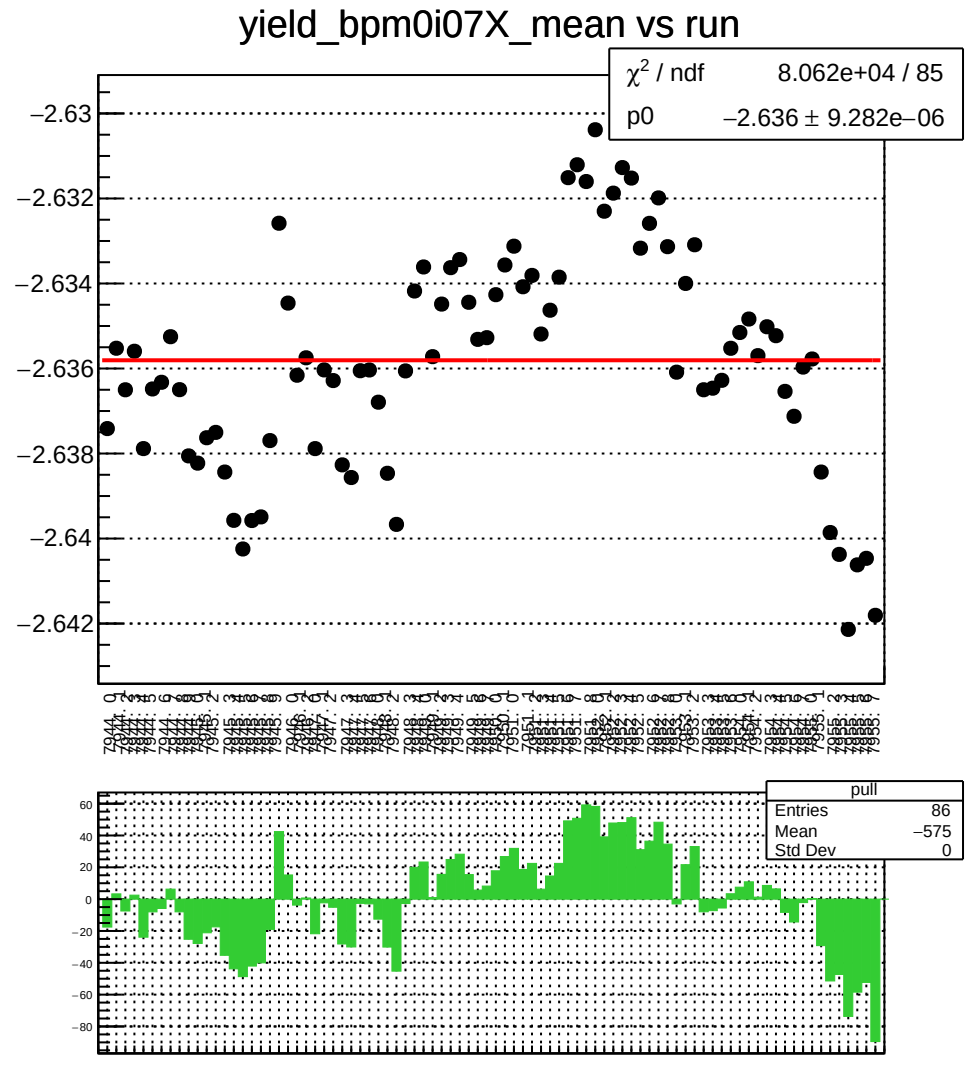

pull1D
Entries 86
Mean −1.209
Std Dev 1.722

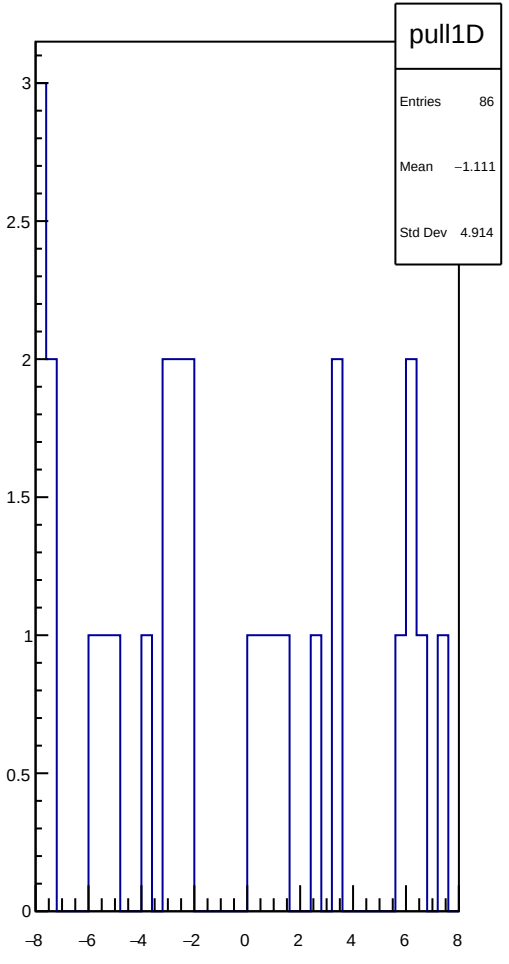

yield_bpm0i05X_rms vs run
χ² / ndf 1.326e+05 / 85
p0 0.005041 ± 4.134e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

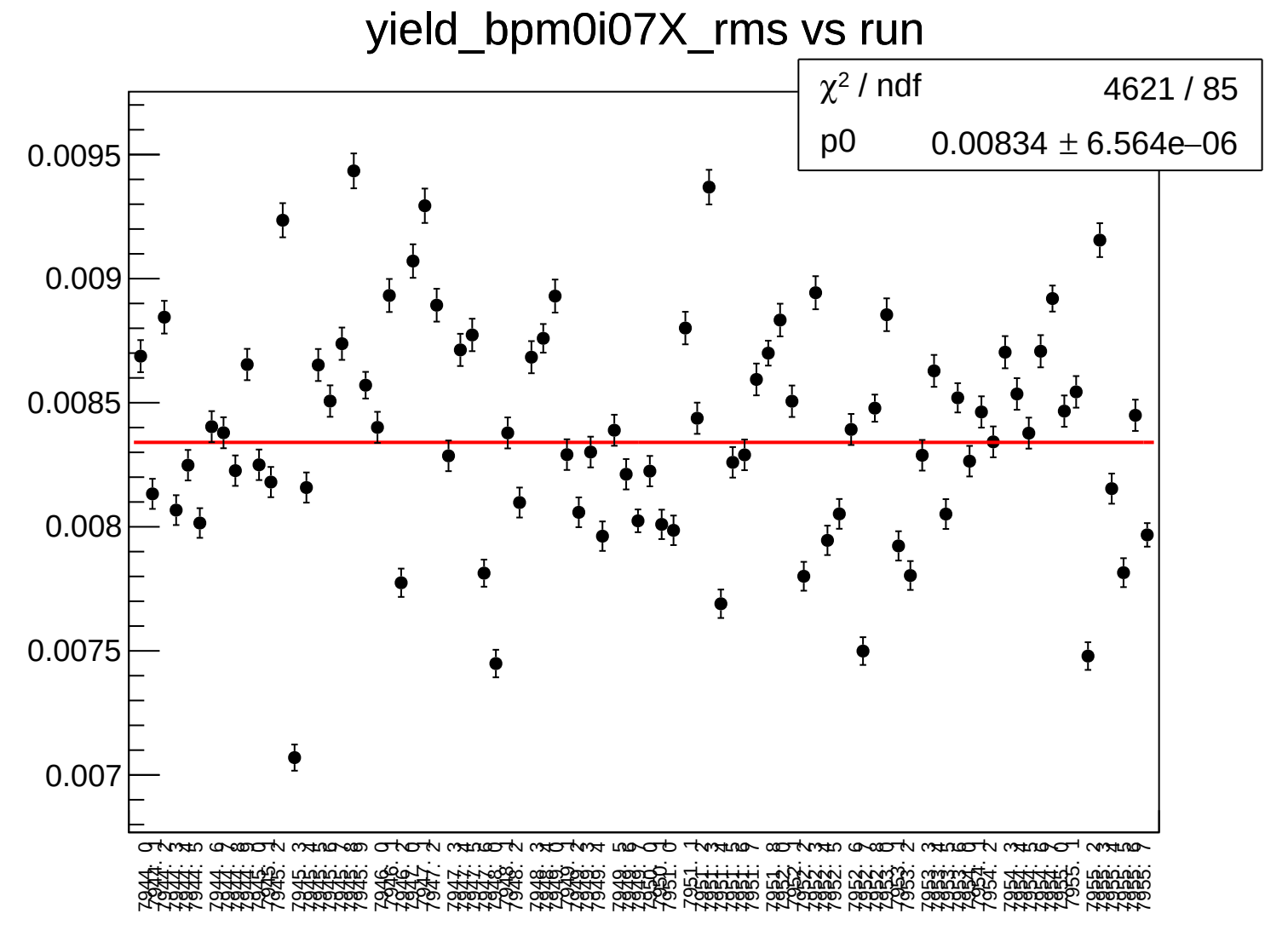

yield_bpm0i05Y_mean vs run
χ² / ndf 7.236e+06 / 85
p0 −1.188 ± 4.201e−06
−1.16
−1.17
−1.18
−1.19
−1.2
−1.21
pull
Entries 86
Mean −426.2
Std Dev 0
800
600
400
200
0
−200
−400

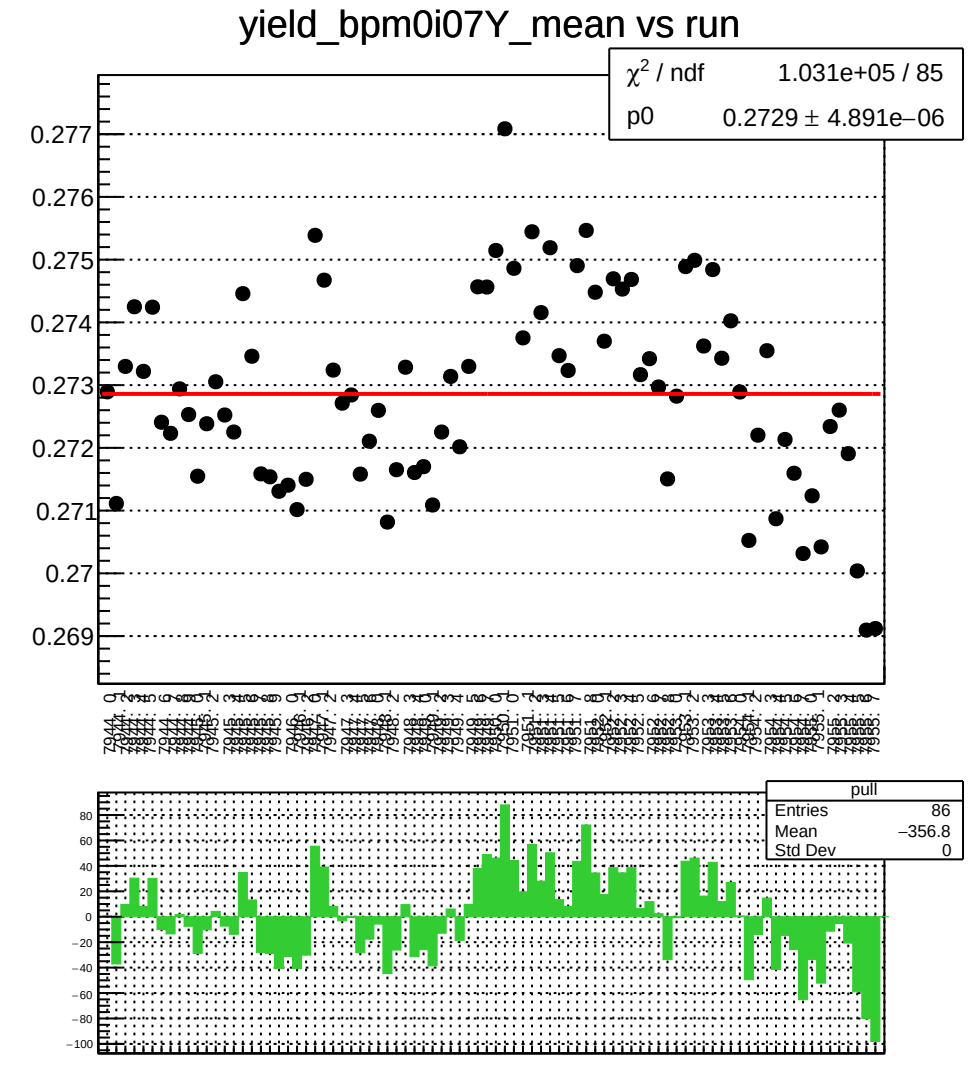

pull1D
Entries 86
Mean −3.813
Std Dev 0.3012
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

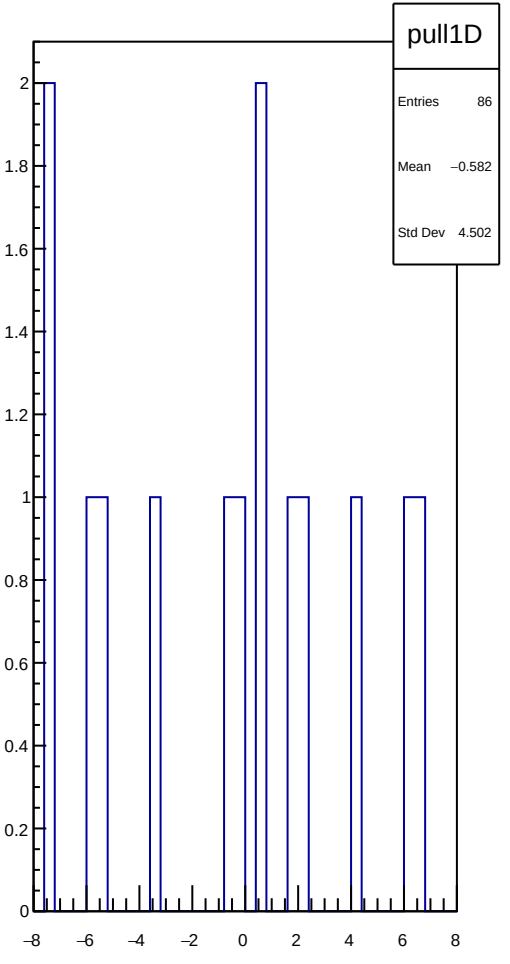

yield_bpm0i05Y_rms vs run
χ² / ndf 9.57e+04 / 85
p0 0.003667 ± 2.971e−06
0.012
0.01
0.008
0.006
0.004
0.002

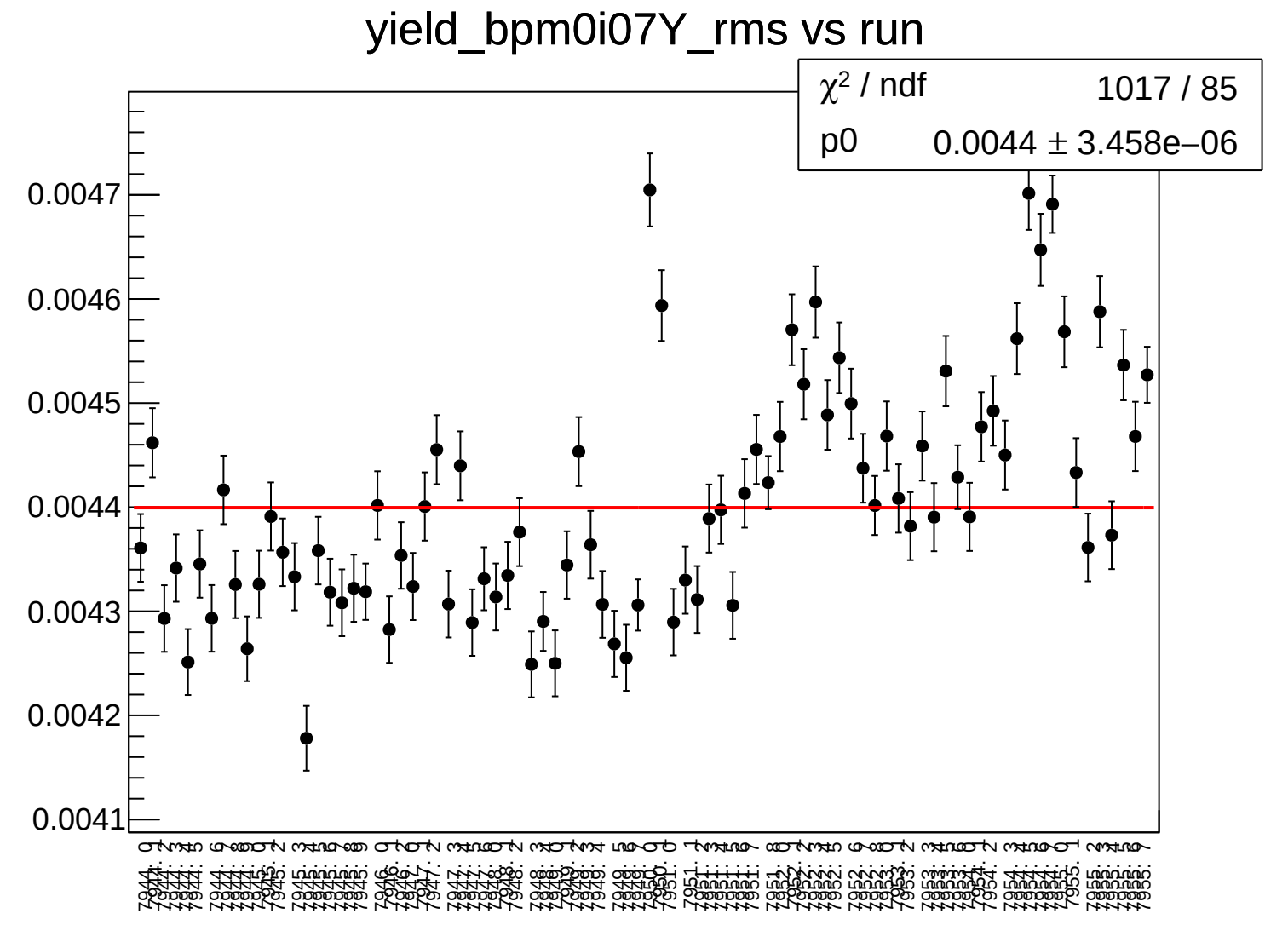

yield_bpm0i07X_mean vs run
χ² / ndf 8.062e+04 / 85
p0 −2.636 ± 9.282e−06
−2.63
−2.632
−2.634
−2.636
−2.638
−2.64
−2.642
pull
Entries 86
Mean −575
Std Dev 0
60
40
20
0
−20
−40
−60
−80

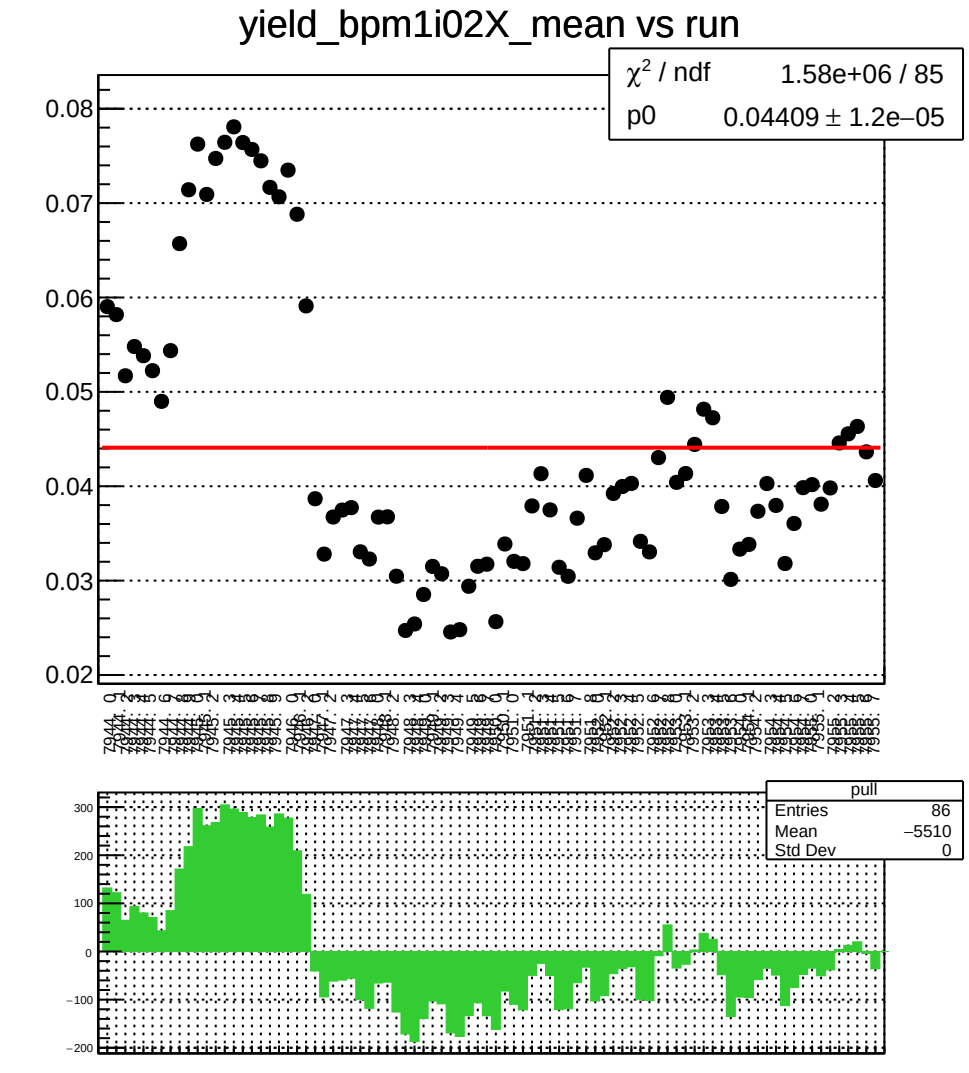

pull1D
Entries 86
Mean −1.111
Std Dev 4.914
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

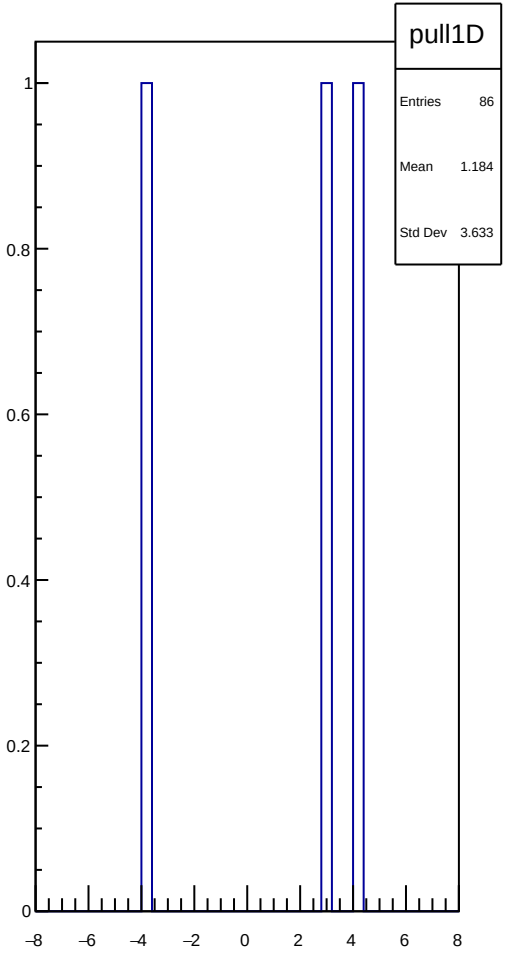

yield_bpm0i07X_rms vs run
χ² / ndf 4621 / 85
p0 0.00834 ± 6.564e–06
0.0095
0.009
0.0085
0.008
0.0075
0.007


yield_bpm0i07Y_mean vs run
χ² / ndf 1.031e+05 / 85
p0 0.2729 ± 4.891e−06
0.277
0.276
0.275
0.274
0.273
0.272
0.271
0.27
0.269
pull
Entries 86
Mean −356.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

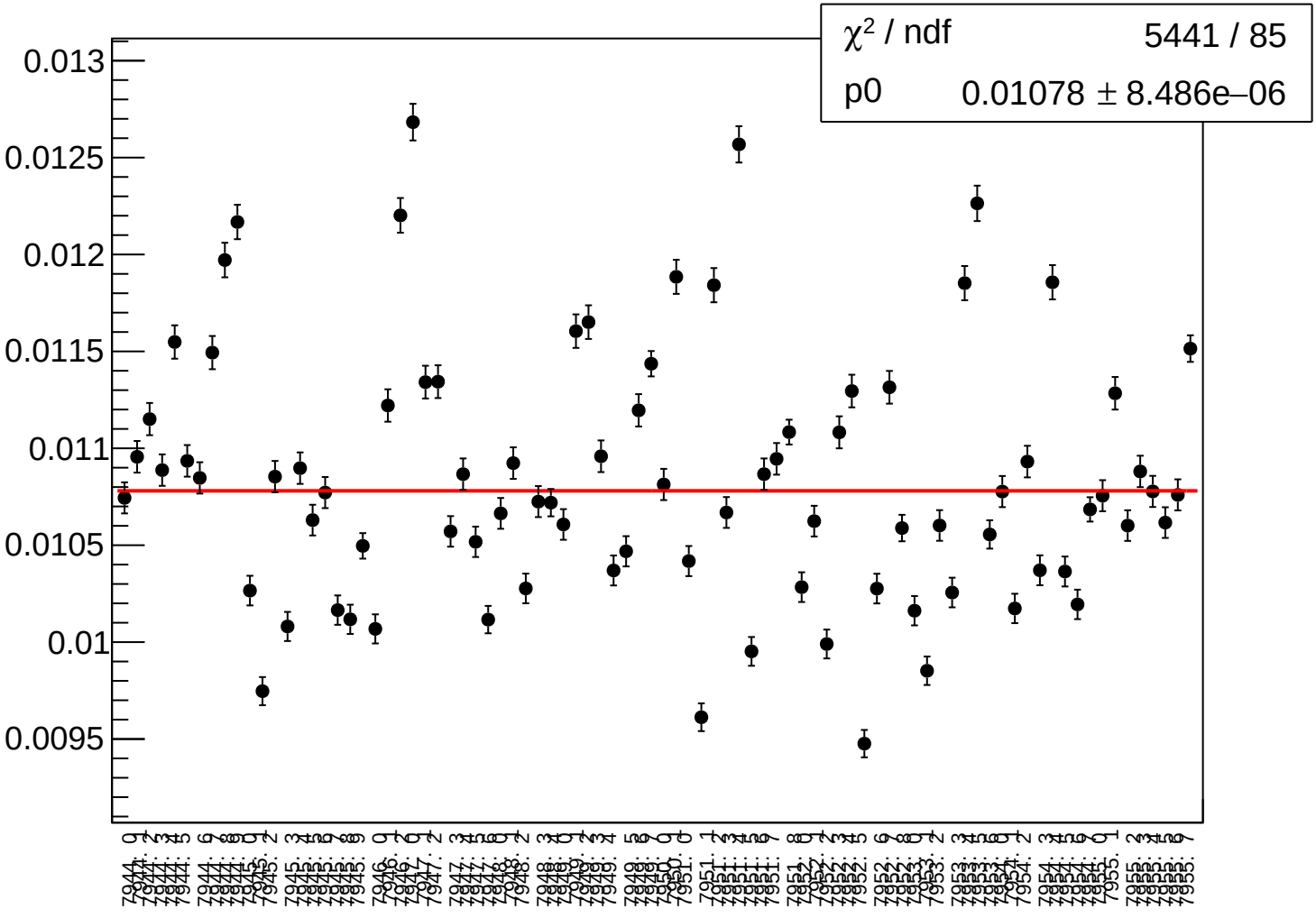

pull1D
Entries 86
Mean −0.582
Std Dev 4.502
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

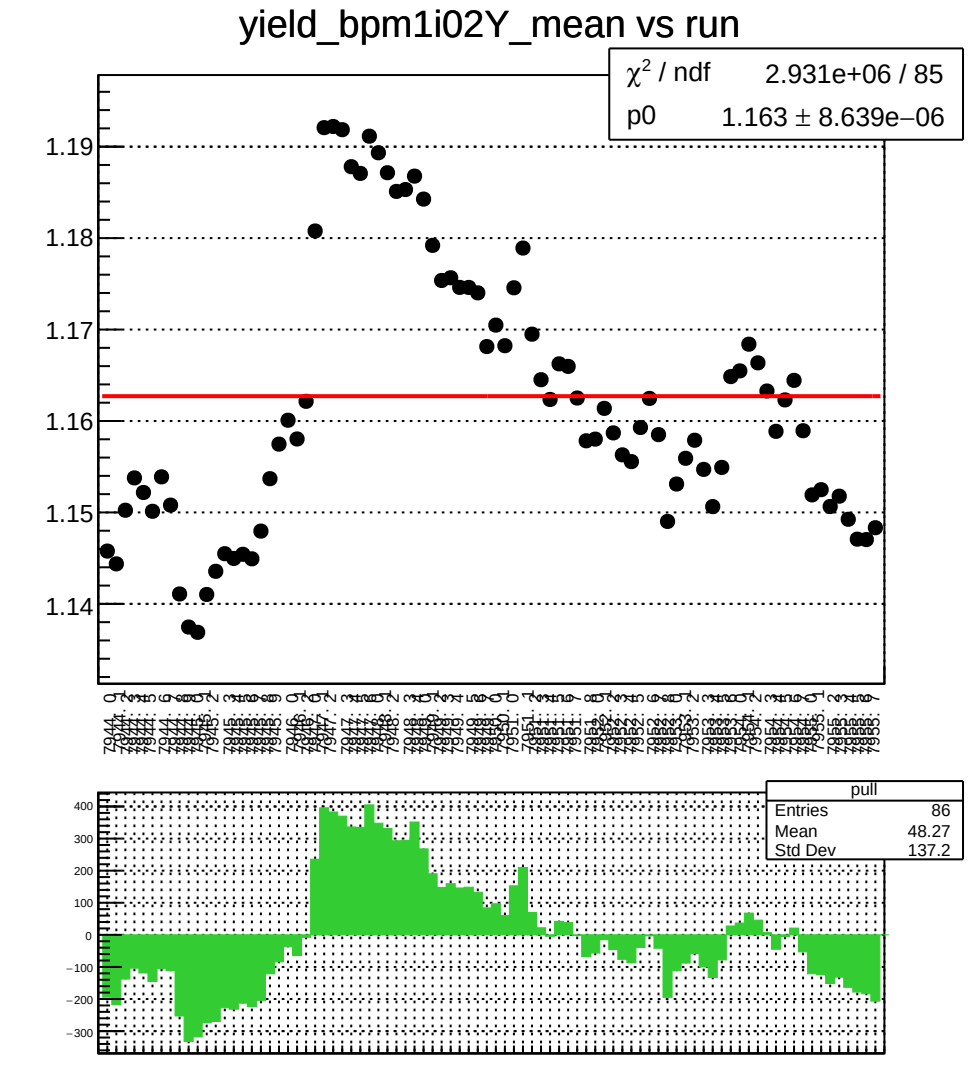

yield_bpm0i07Y_rms vs run
χ² / ndf 1017 / 85
p0 0.0044 ± 3.458e−06
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041

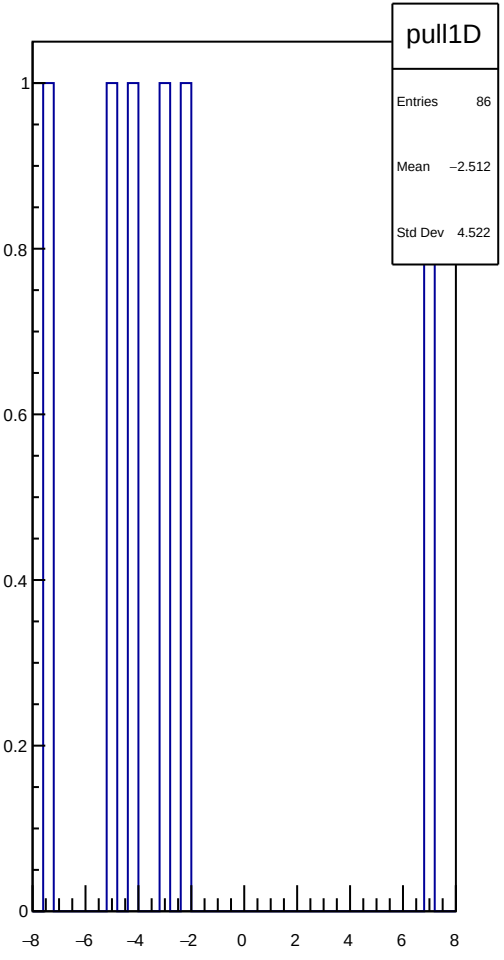

yield_bpm1i02X_mean vs run
χ² / ndf 1.58e+06 / 85
p0 0.04409 ± 1.2e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 86
Mean −5510
Std Dev 0
300
200
100
0
−100
−200

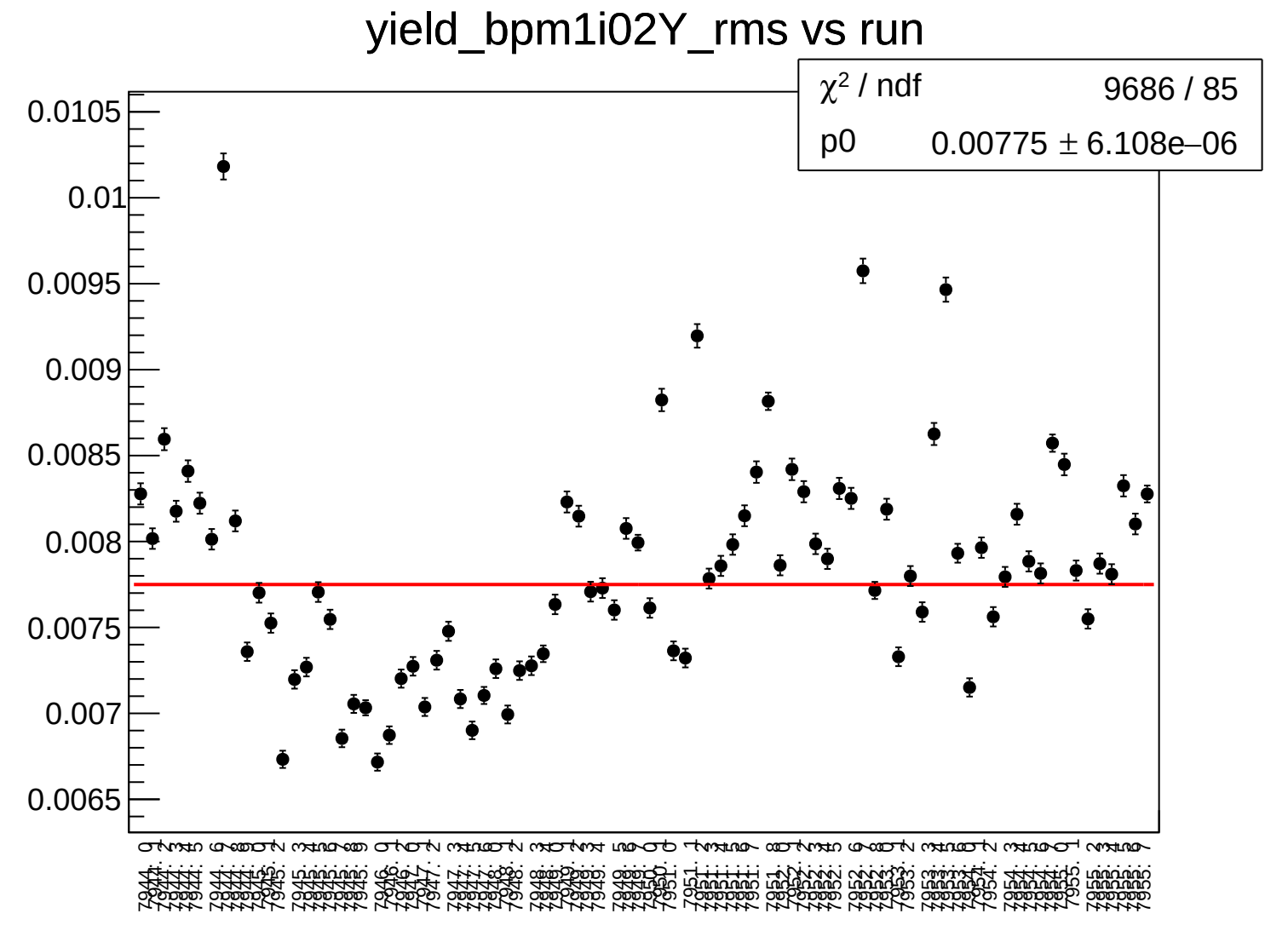

pull1D
Entries 86
Mean 1.184
Std Dev 3.633
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

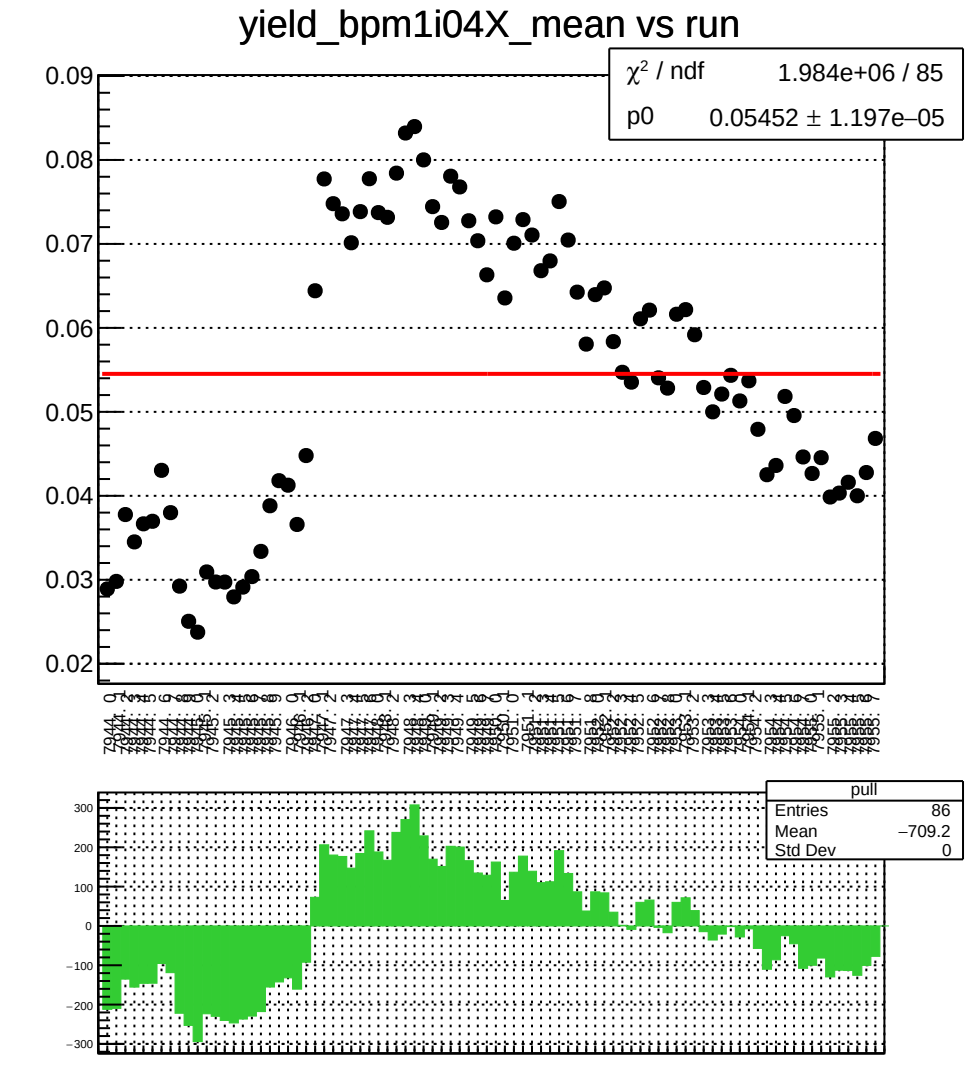
yield_bpm1i02X_rms vs run

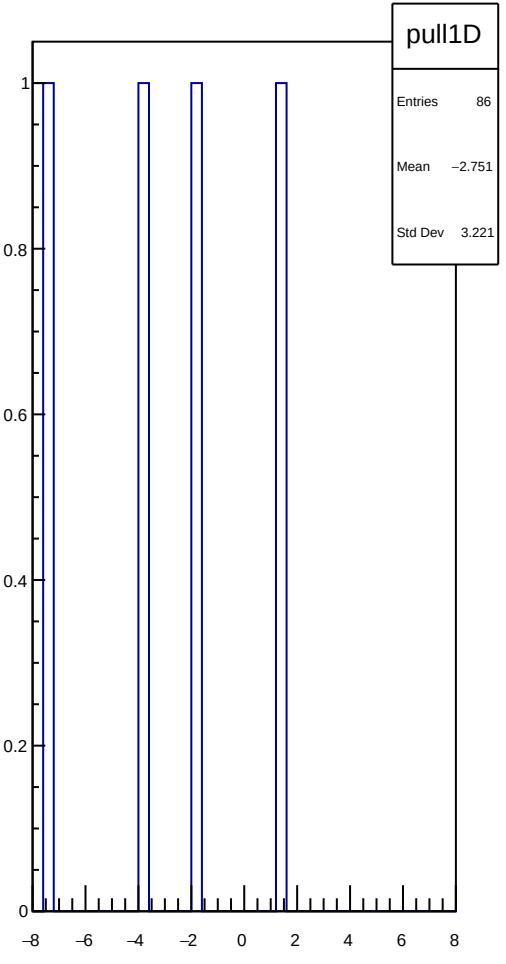


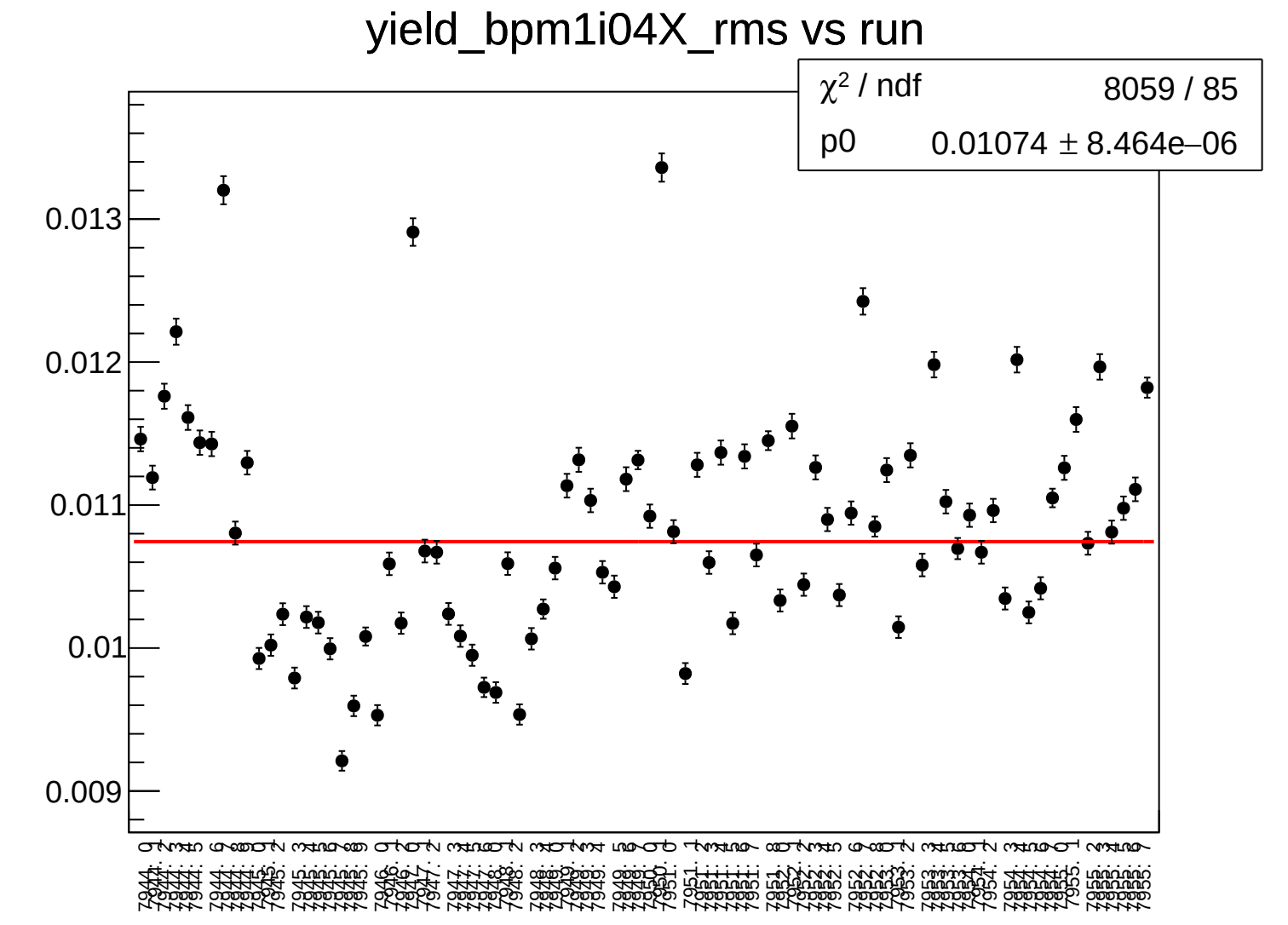

yield_bpm1i02Y_mean vs run
χ² / ndf 2.931e+06 / 85
p0 1.163 ± 8.639e−06
1.19
1.18
1.17
1.16
1.15
1.14
pull
Entries 86
Mean 48.27
Std Dev 137.2
400
300
200
100
0
−100
−200
−300

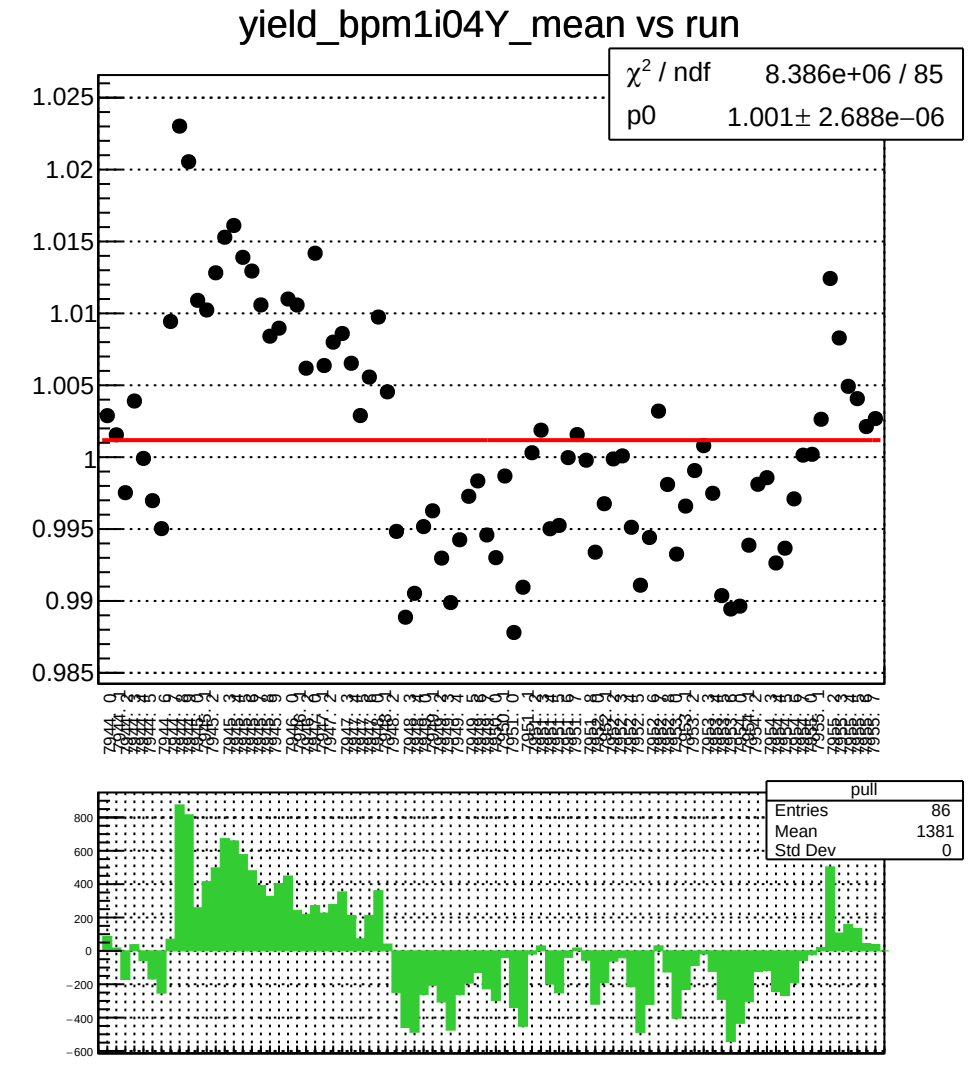

pull1D
Entries 86
Mean −2.512
Std Dev 4.522
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

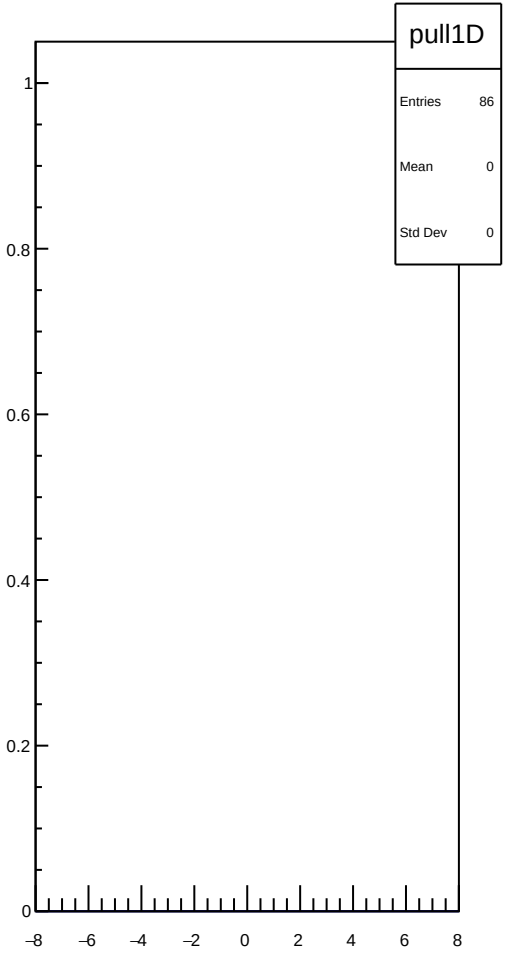

yield_bpm1i02Y_rms vs run
χ² / ndf 9686 / 85
p0 0.00775 ± 6.108e–06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

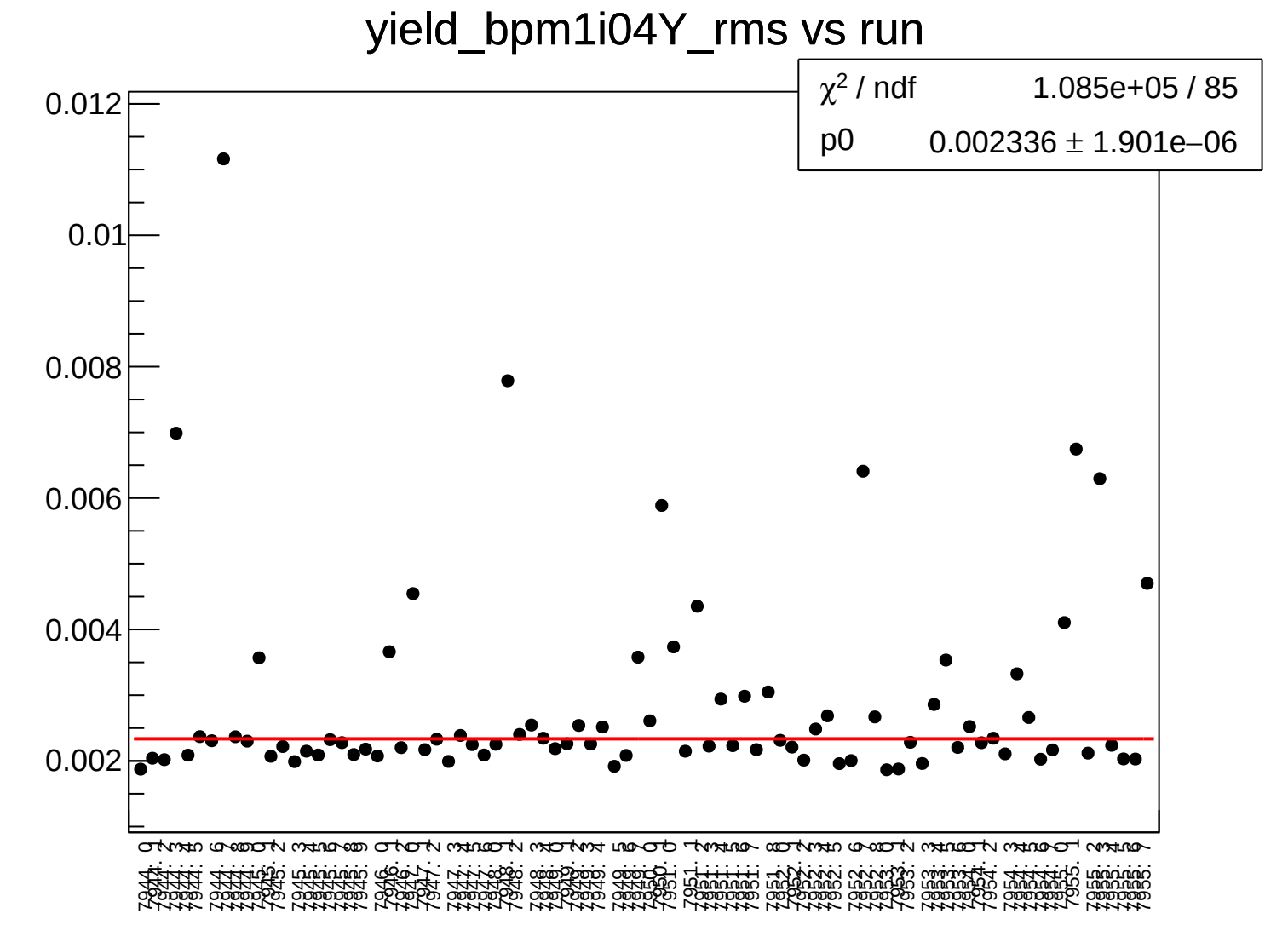

yield_bpm1i04X_mean vs run
χ² / ndf 1.984e+06 / 85
p0 0.05452 ± 1.197e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 86
Mean −709.2
Std Dev 0
300
200
100
0
−100
−200
−300

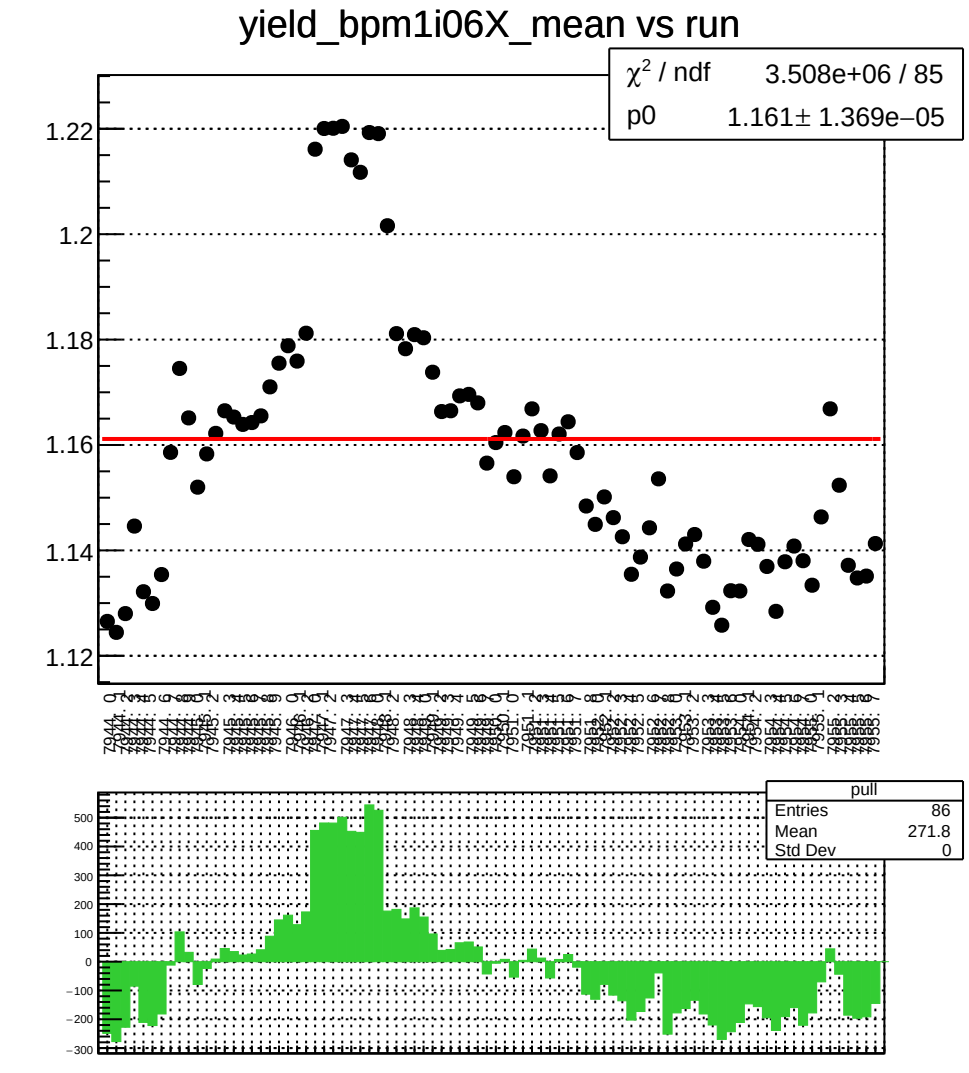

pull1D
Entries 86
Mean −2.751
Std Dev 3.221
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

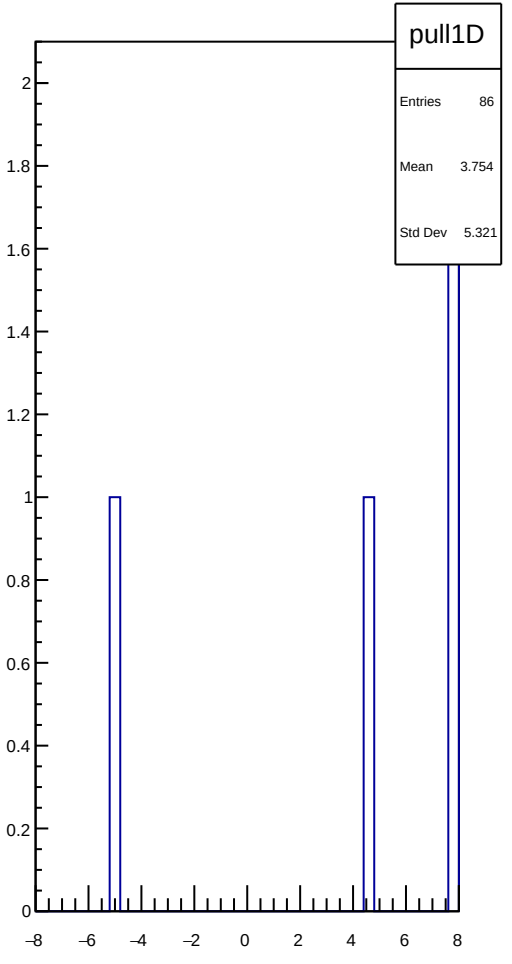

yield_bpm1i04X_rms vs run
χ² / ndf 8059 / 85
p0 0.01074 ± 8.464e–06
0.013
0.012
0.011
0.01
0.009

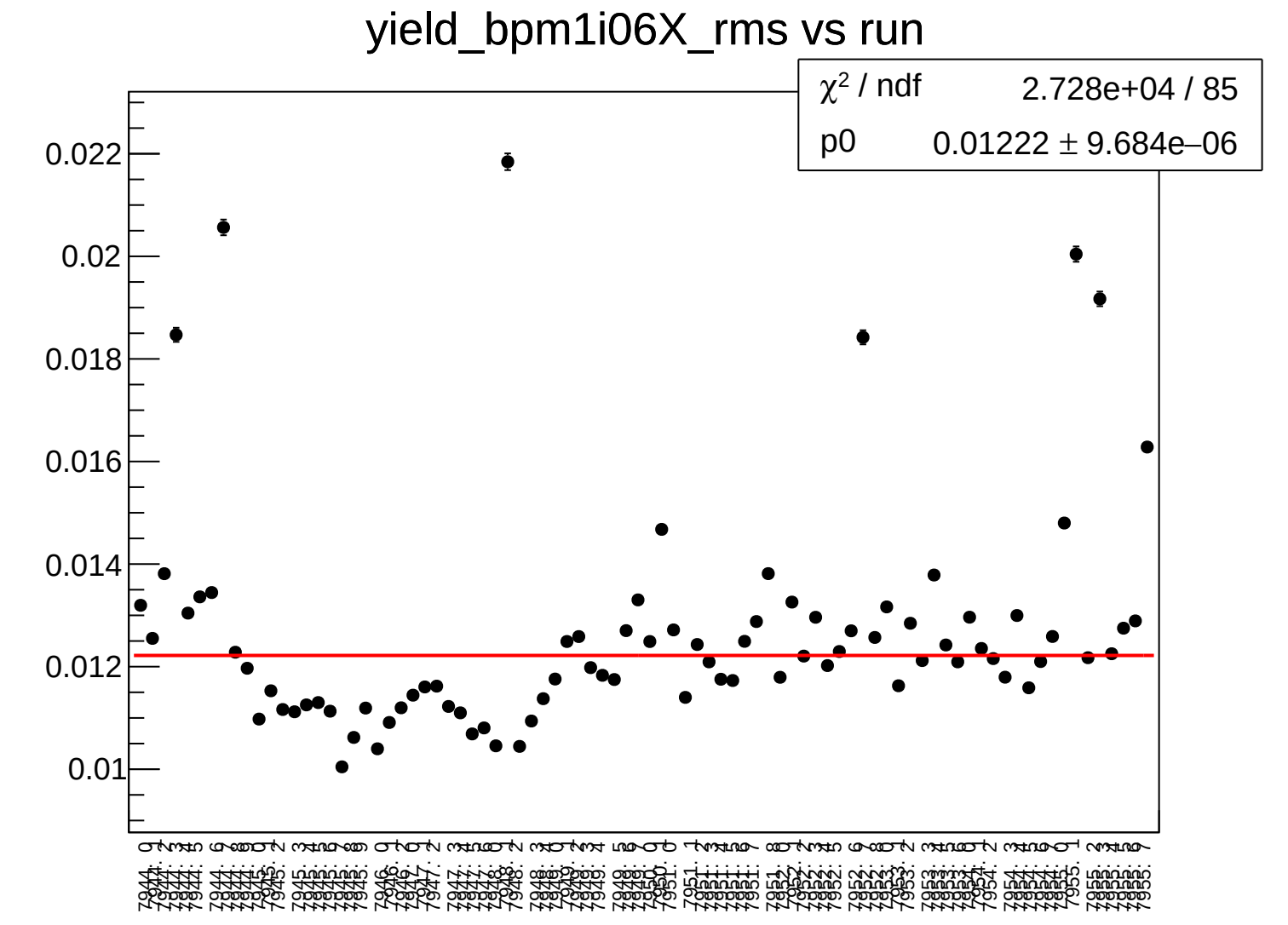

yield_bpm1i04Y_mean vs run
χ² / ndf 8.386e+06 / 85
p0 1.001± 2.688e−06
pull
Entries 86
Mean 1381
Std Dev 0

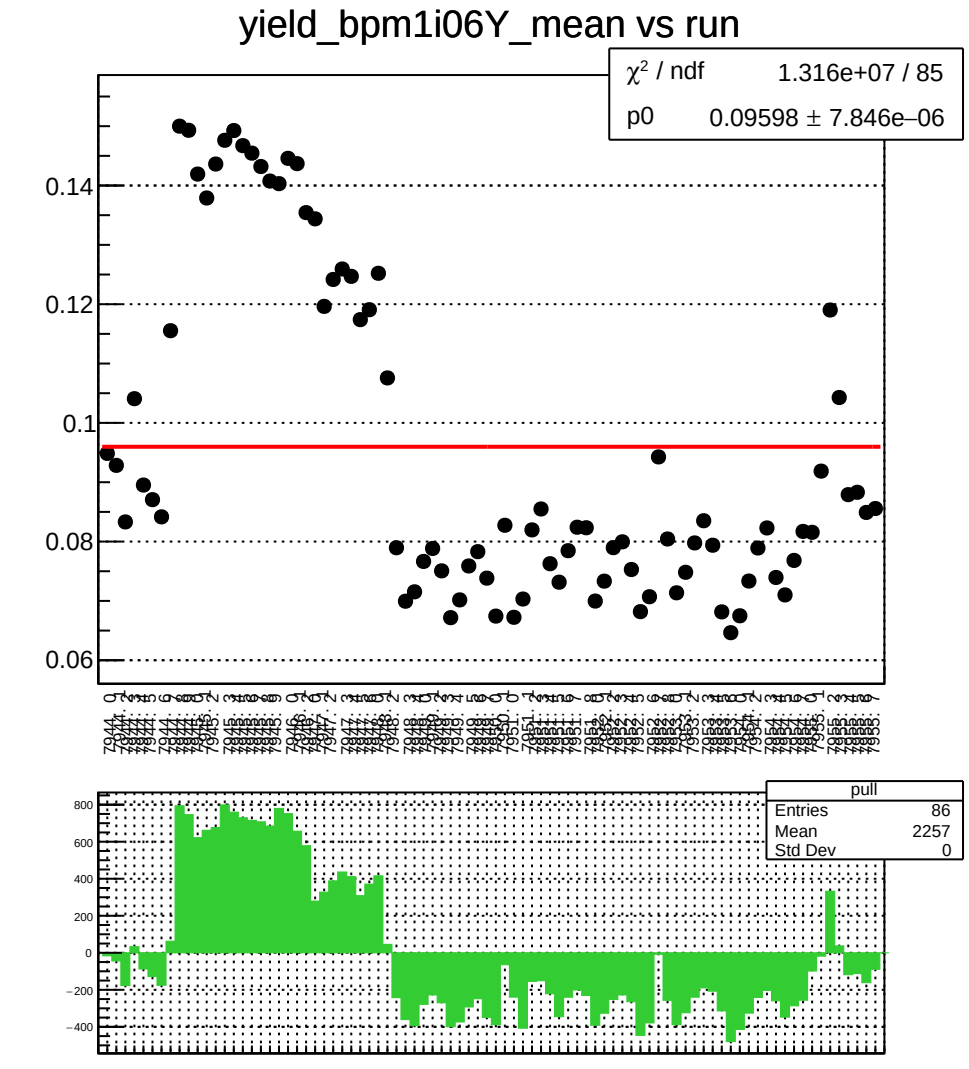

pull1D
Entries 86
Mean 0
Std Dev 0

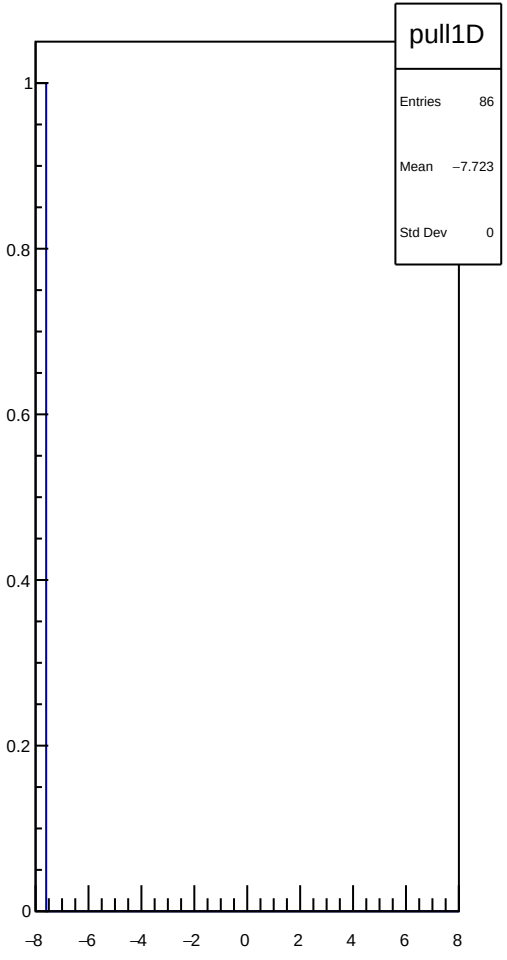

yield_bpm1i04Y_rms vs run
χ^2 / ndf 1.085e+05 / 85
p0 0.002336 ± 1.901e−06
0.012
0.01
0.008
0.006
0.004
0.002

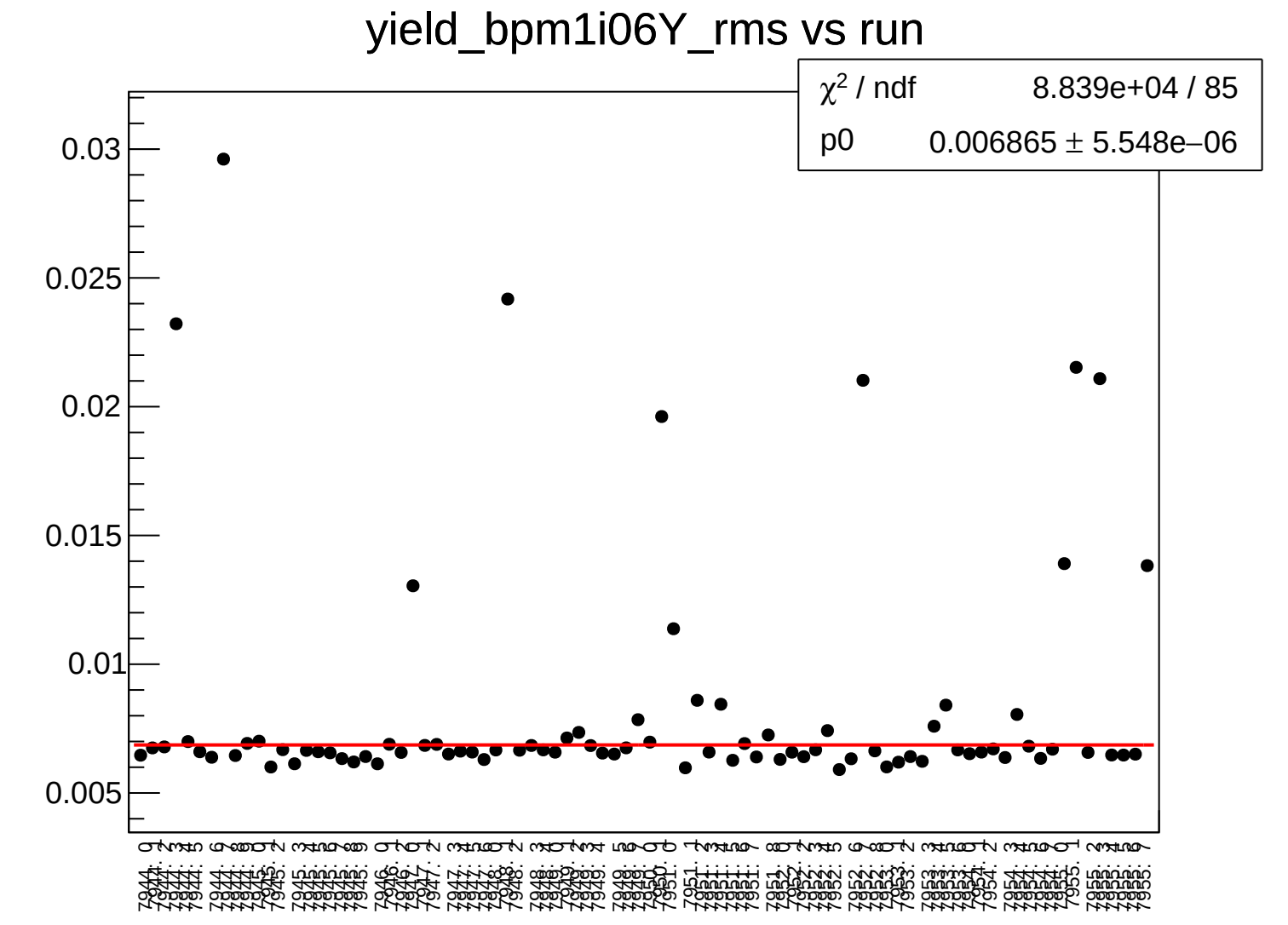

yield_bpm1i06X_mean vs run
χ² / ndf 3.508e+06 / 85
p0 1.161± 1.369e−05
1.22
1.2
1.18
1.16
1.14
1.12
pull
Entries 86
Mean 271.8
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

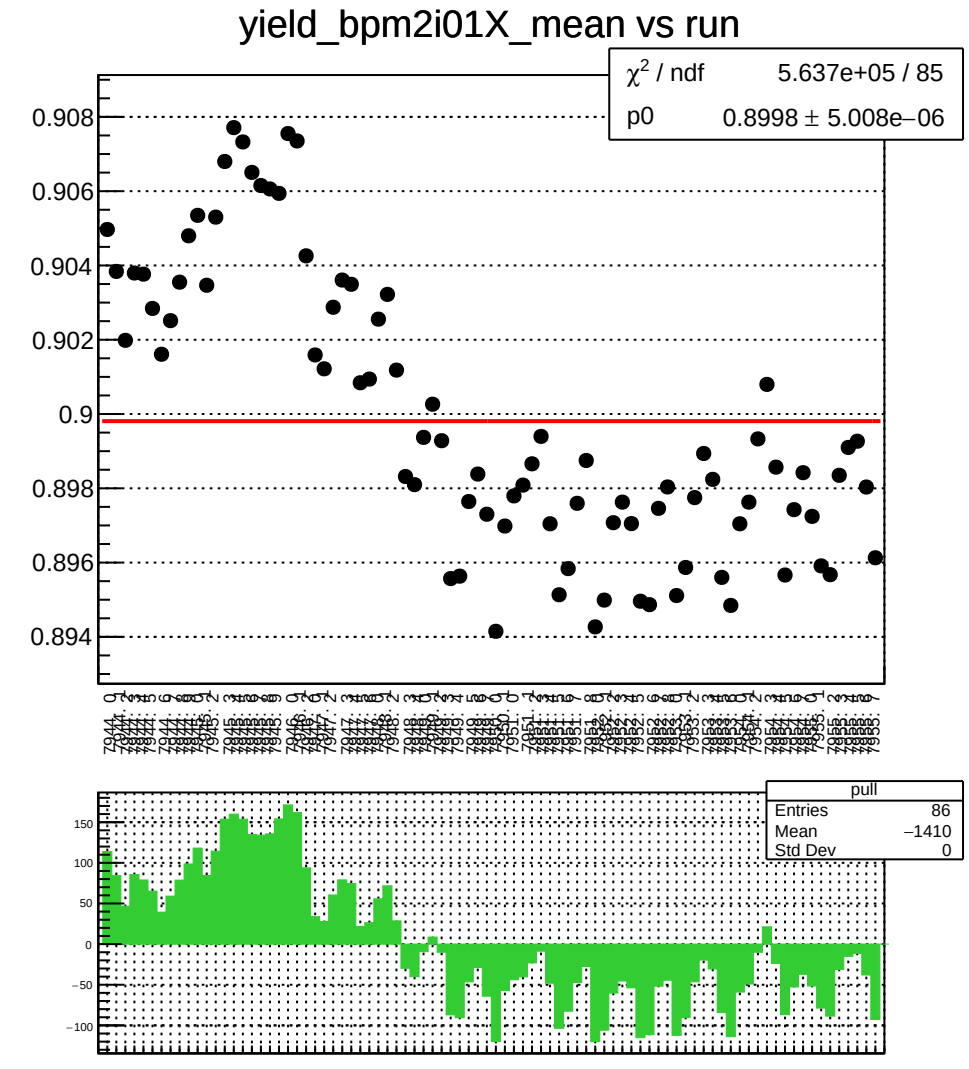

pull1D
Entries 86
Mean 3.754
Std Dev 5.321
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

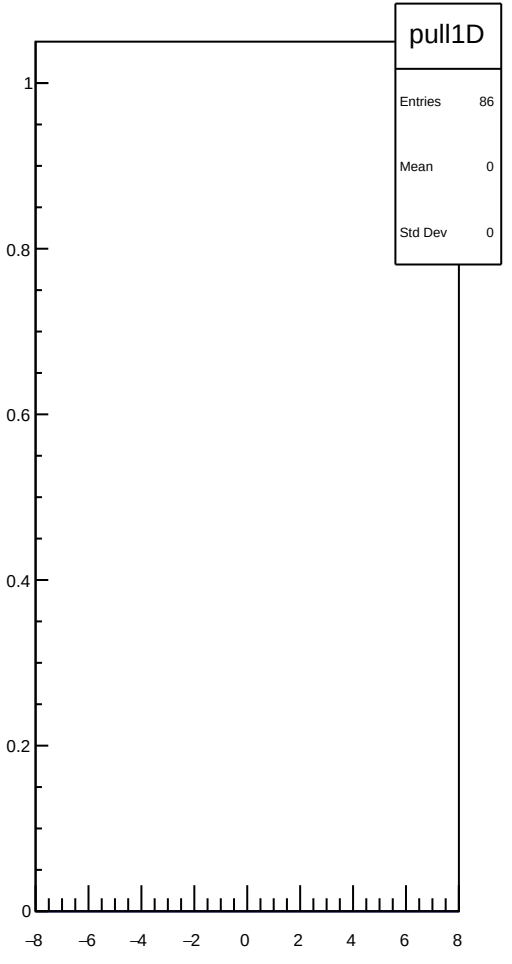

yield_bpm1i06X_rms vs run
χ² / ndf 2.728e+04 / 85
p0 0.01222 ± 9.684e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

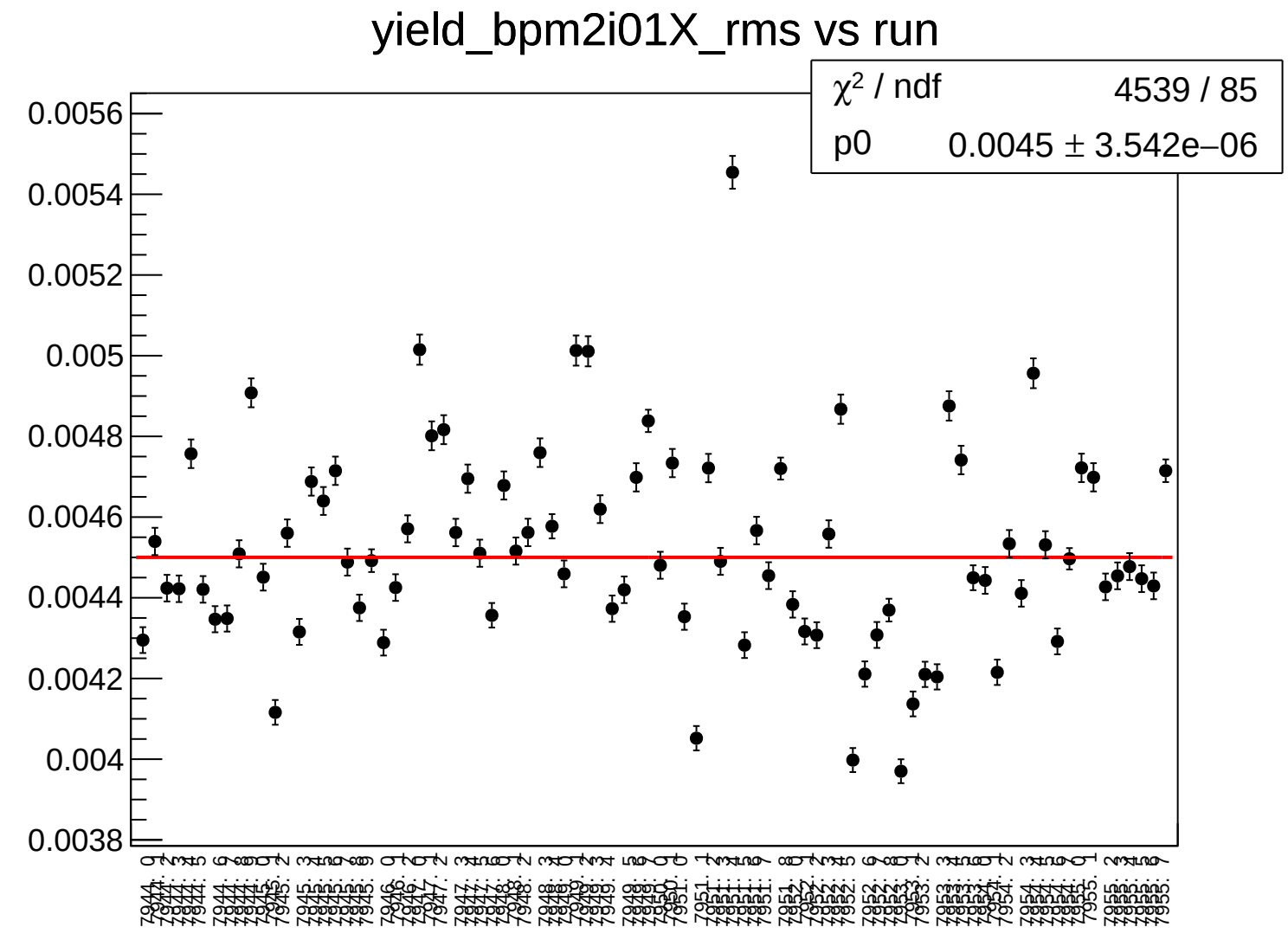

yield_bpm1i06Y_mean vs run
χ² / ndf 1.316e+07 / 85
p0 0.09598 ± 7.846e−06
0.14
0.12
0.1
0.08
0.06
pull
Entries 86
Mean 2257
Std Dev 0
800
600
400
200
0
−200
−400

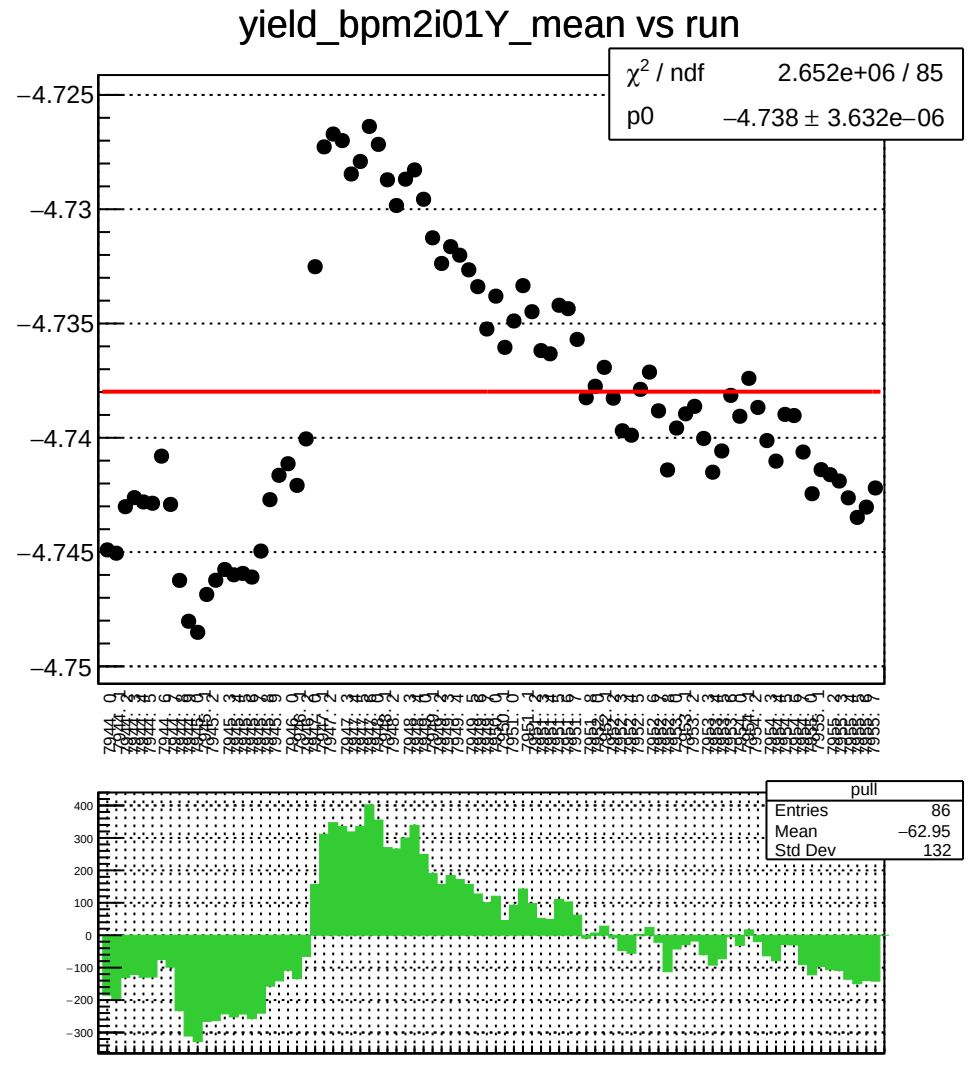

pull1D
Entries 86
Mean −7.723
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

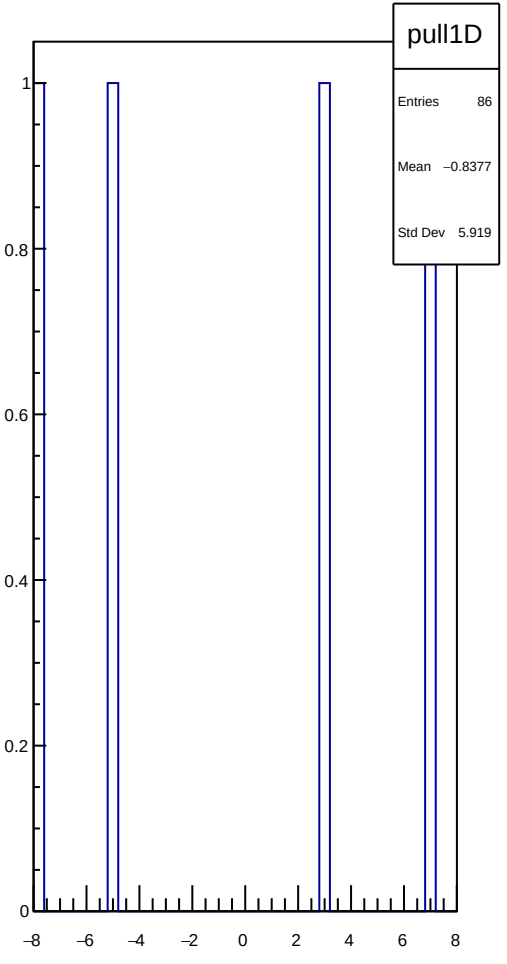

yield_bpm1i06Y_rms vs run
χ^2 / ndf 8.839e+04 / 85
p0 0.006865 ± 5.548e−06
0.03
0.025
0.02
0.015
0.01
0.005

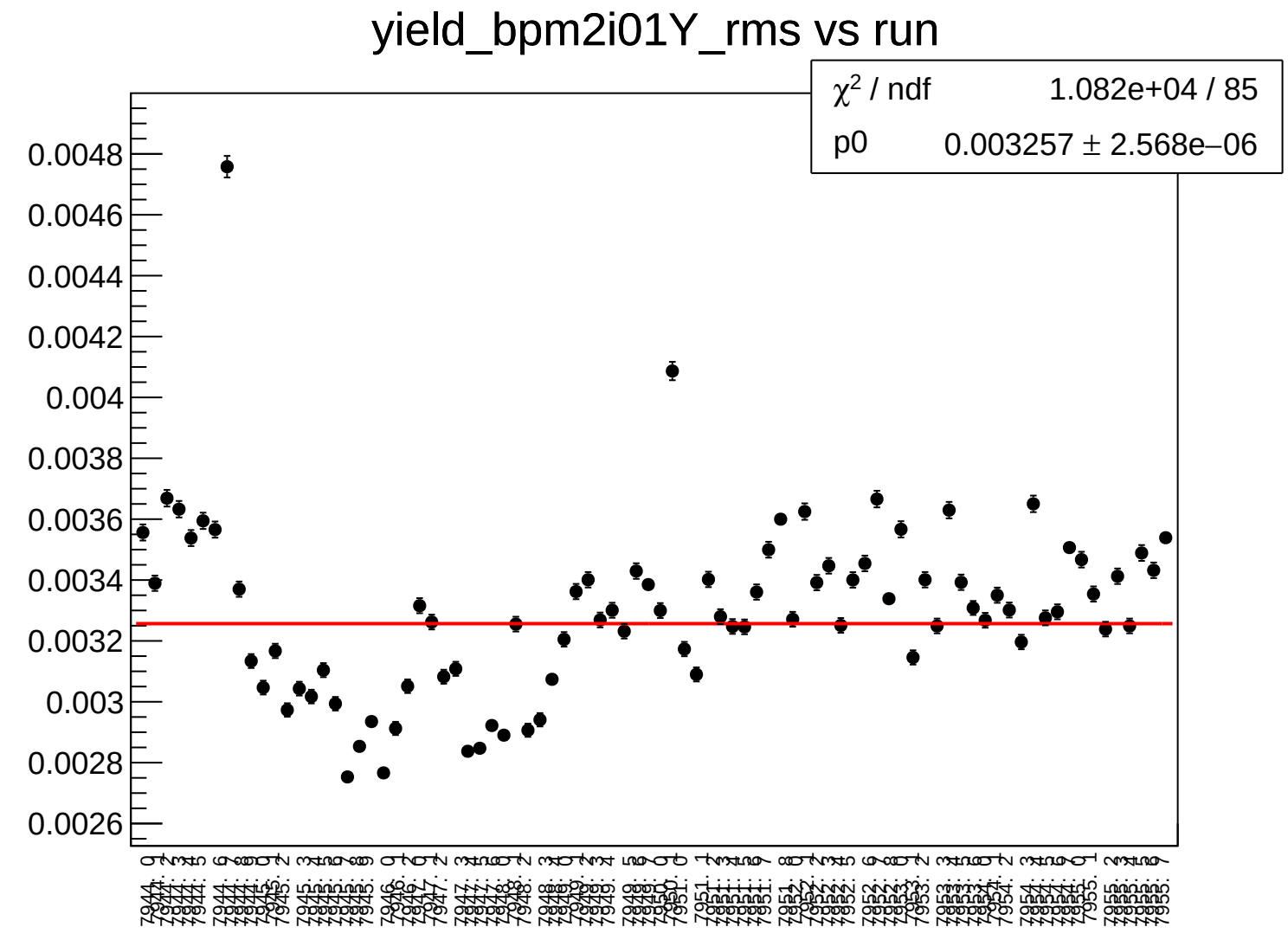

yield_bpm2i01X_mean vs run
χ² / ndf 5.637e+05 / 85
p0 0.8998 ± 5.008e−06
0.908
0.906
0.904
0.902
0.9
0.898
0.896
0.894
pull
Entries 86
Mean −1410
Std Dev 0
150
100
50
0
−50
−100

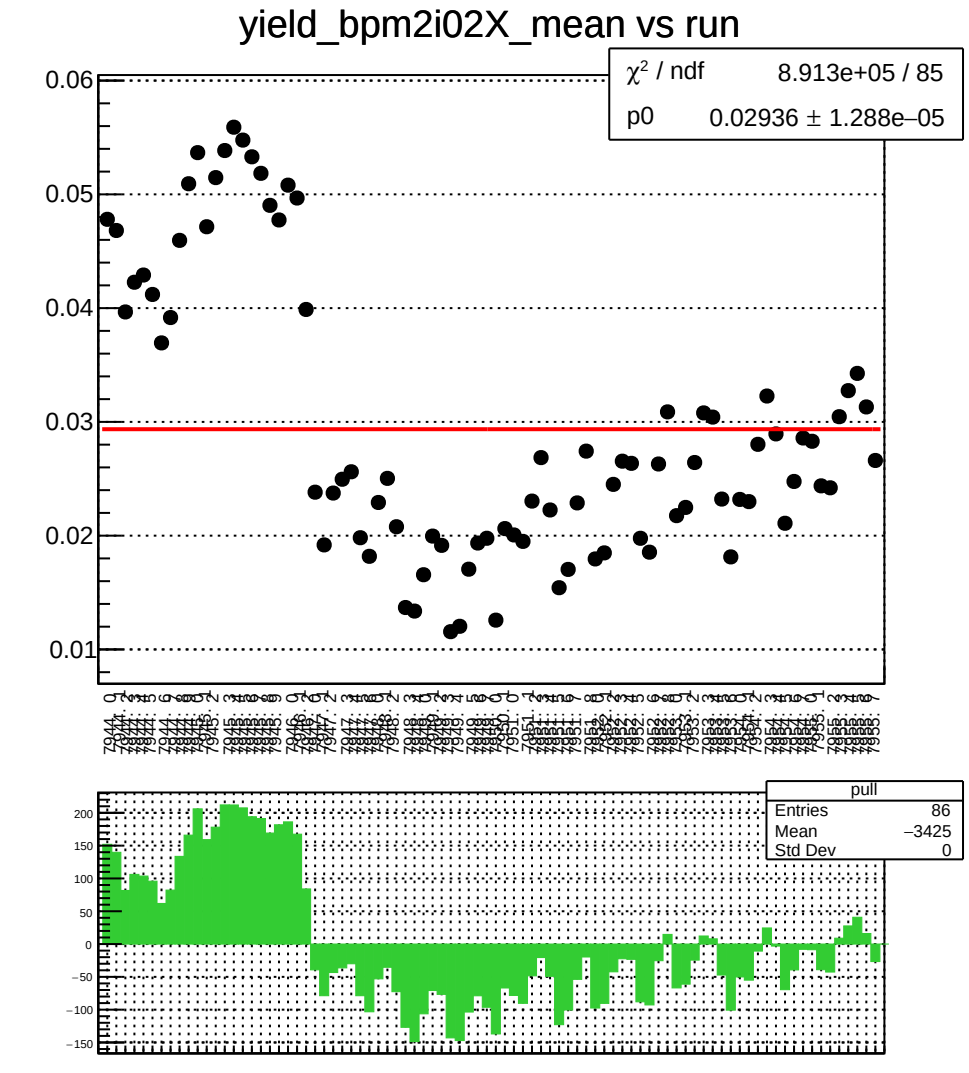

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

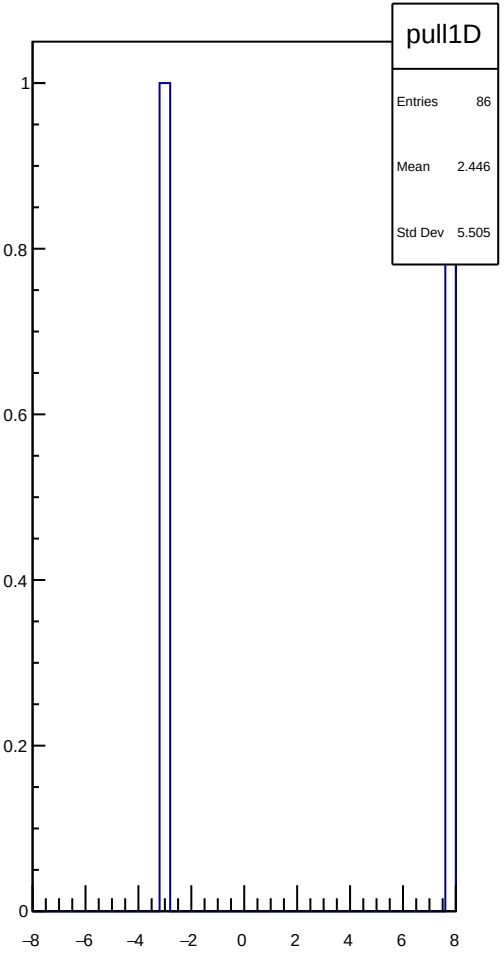

yield_bpm2i01X_rms vs run
χ² / ndf 4539 / 85
p0 0.0045 ± 3.542e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

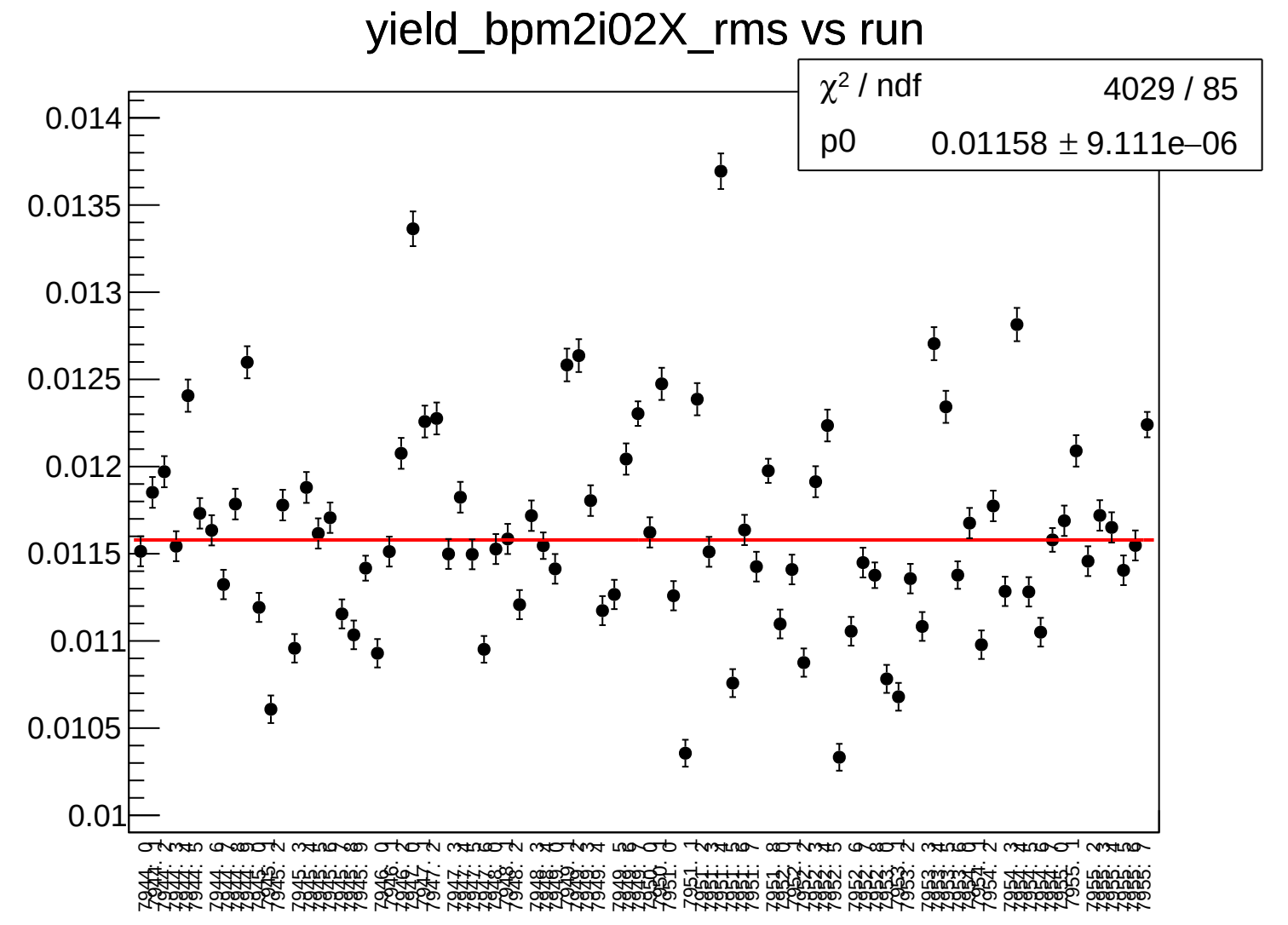

yield_bpm2i01Y_mean vs run
χ² / ndf 2.652e+06 / 85
p0 −4.738 ± 3.632e−06
−4.725
−4.73
−4.735
−4.74
−4.745
−4.75
pull
Entries 86
Mean −62.95
Std Dev 132
400
300
200
100
0
−100
−200
−300

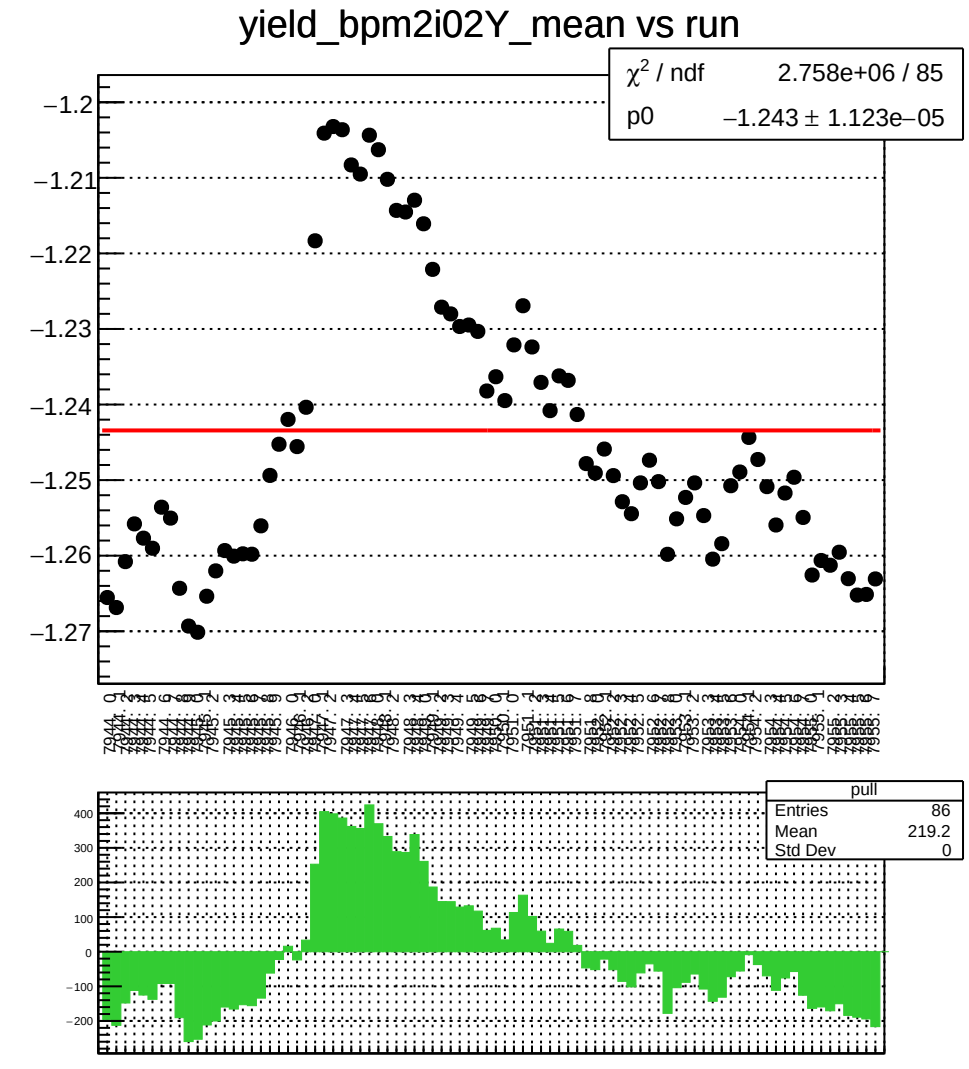

pull1D
Entries 86
Mean −0.8377
Std Dev 5.919
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

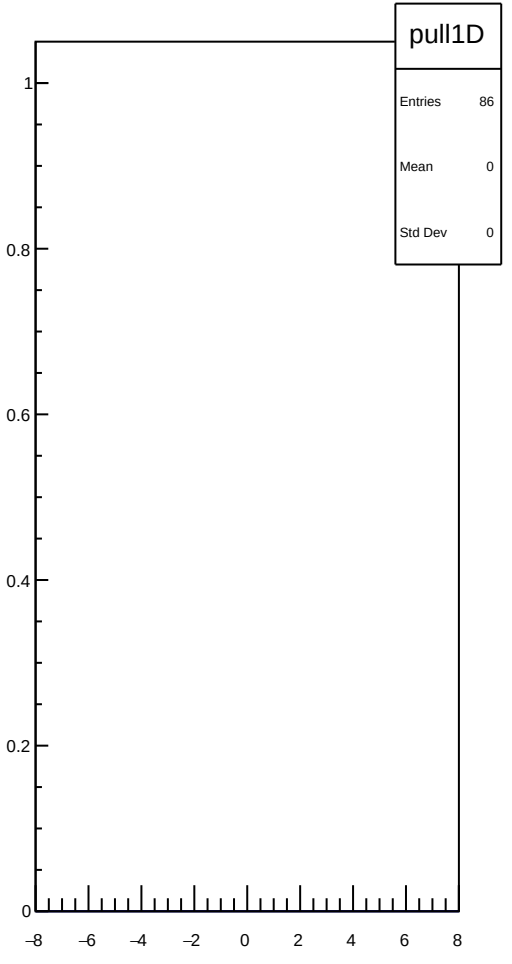

yield_bpm2i01Y_rms vs run
χ² / ndf 1.082e+04 / 85
p0 0.003257 ± 2.568e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

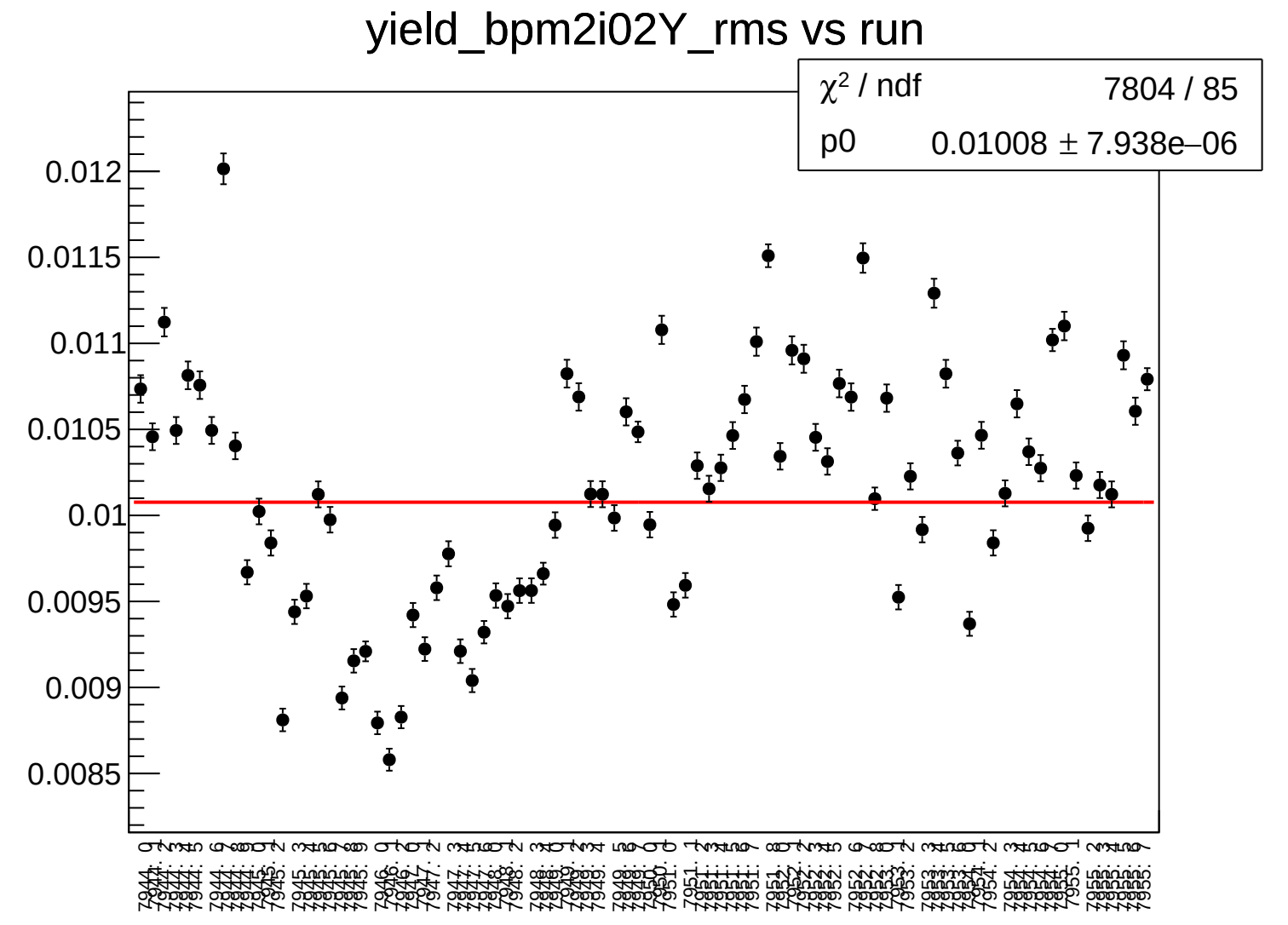

yield_bpm2i02X_mean vs run
χ² / ndf 8.913e+05 / 85
p0 0.02936 ± 1.288e−05
pull
Entries 86
Mean −3425
Std Dev 0

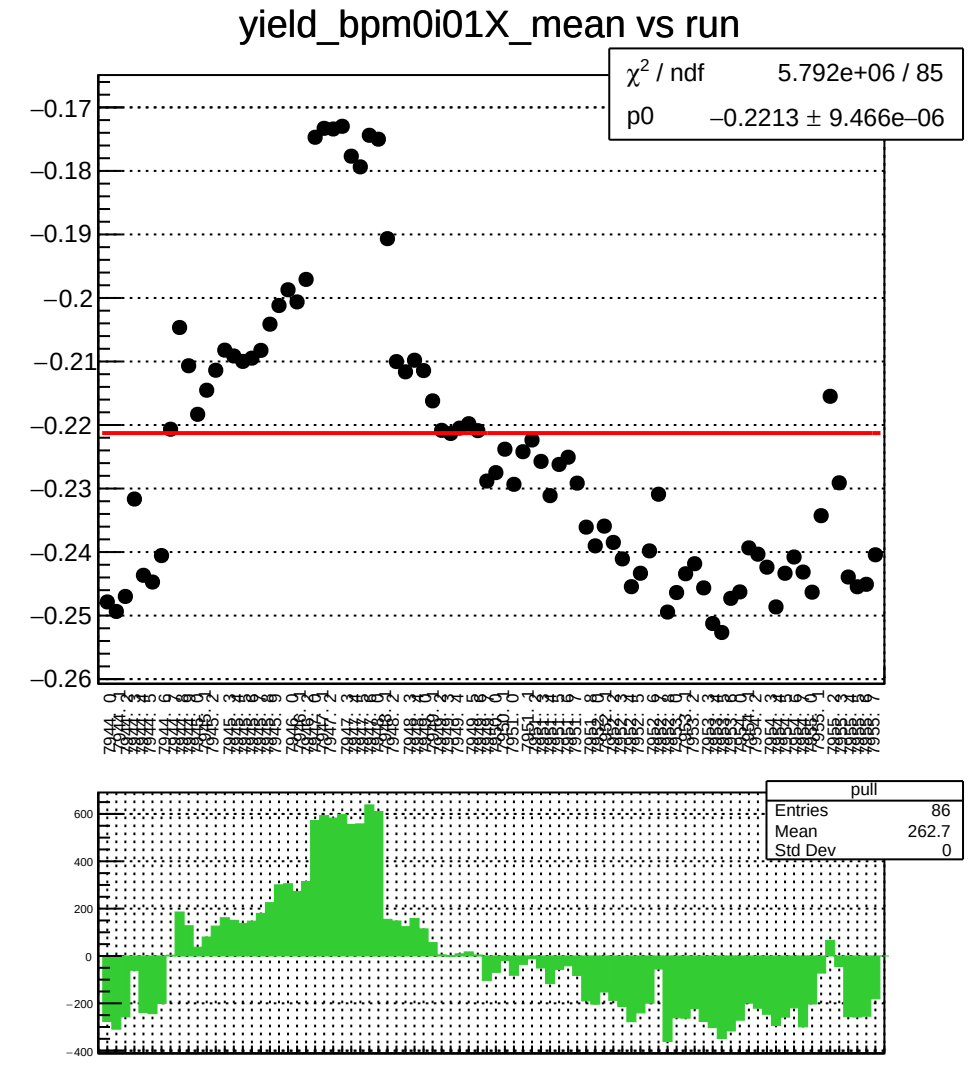

pull1D
Entries 86
Mean 2.446
Std Dev 5.505

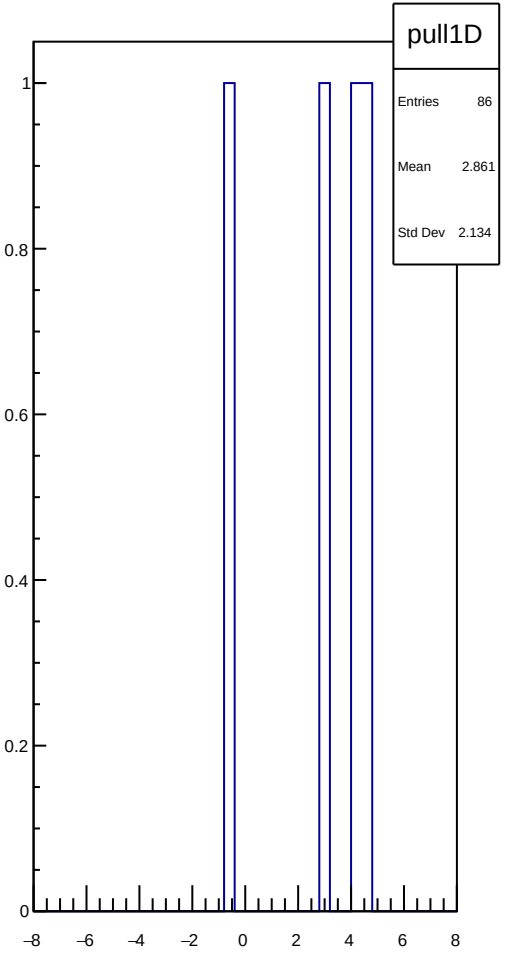

yield_bpm2i02X_rms vs run
χ² / ndf 4029 / 85
p0 0.01158 ± 9.111e–06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

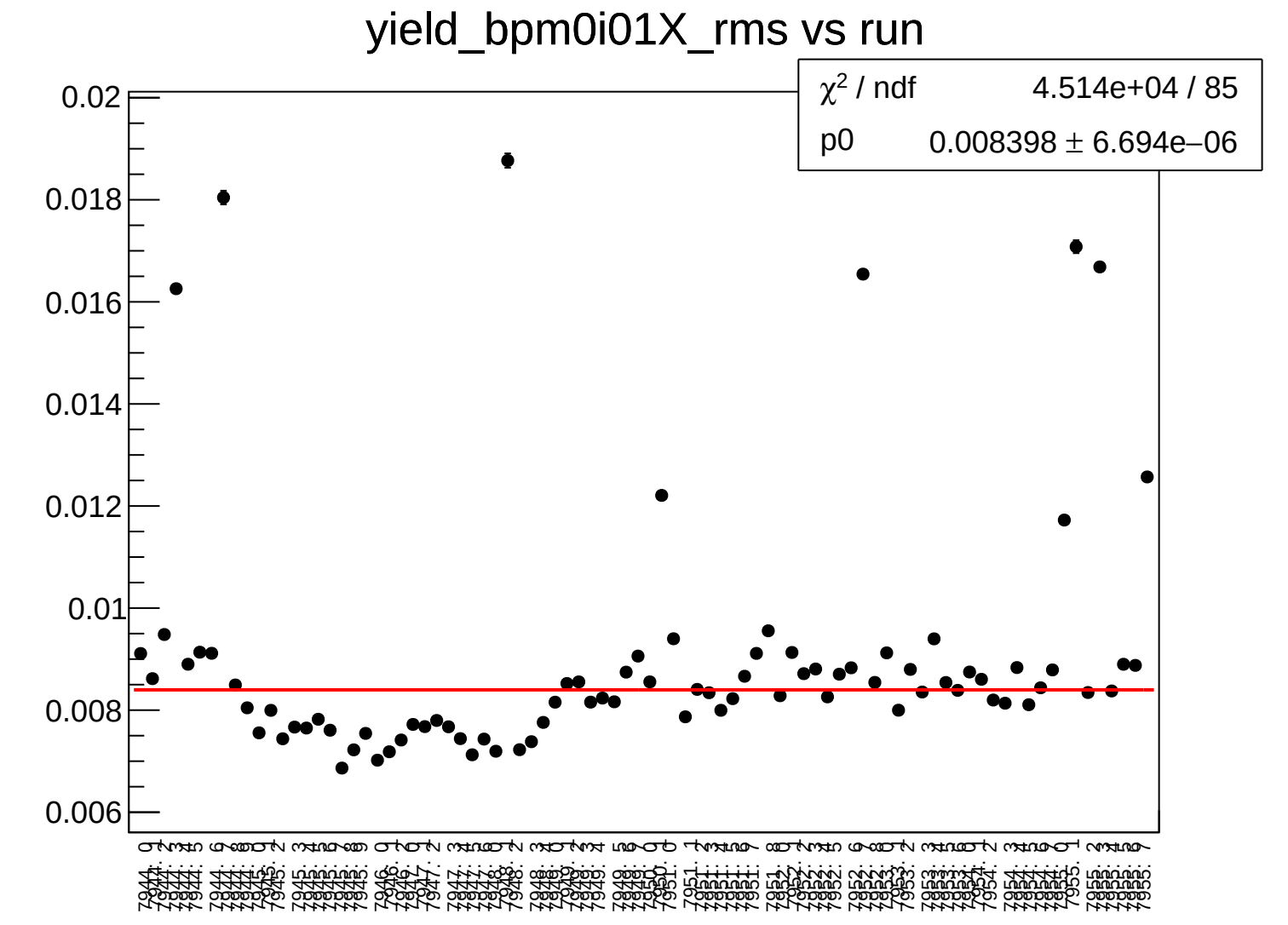

yield_bpm2i02Y_mean vs run
χ² / ndf 2.758e+06 / 85
p0 −1.243 ± 1.123e−05
−1.2
−1.21
−1.22
−1.23
−1.24
−1.25
−1.26
−1.27
pull
Entries 86
Mean 219.2
Std Dev 0
400
300
200
100
0
−100
−200

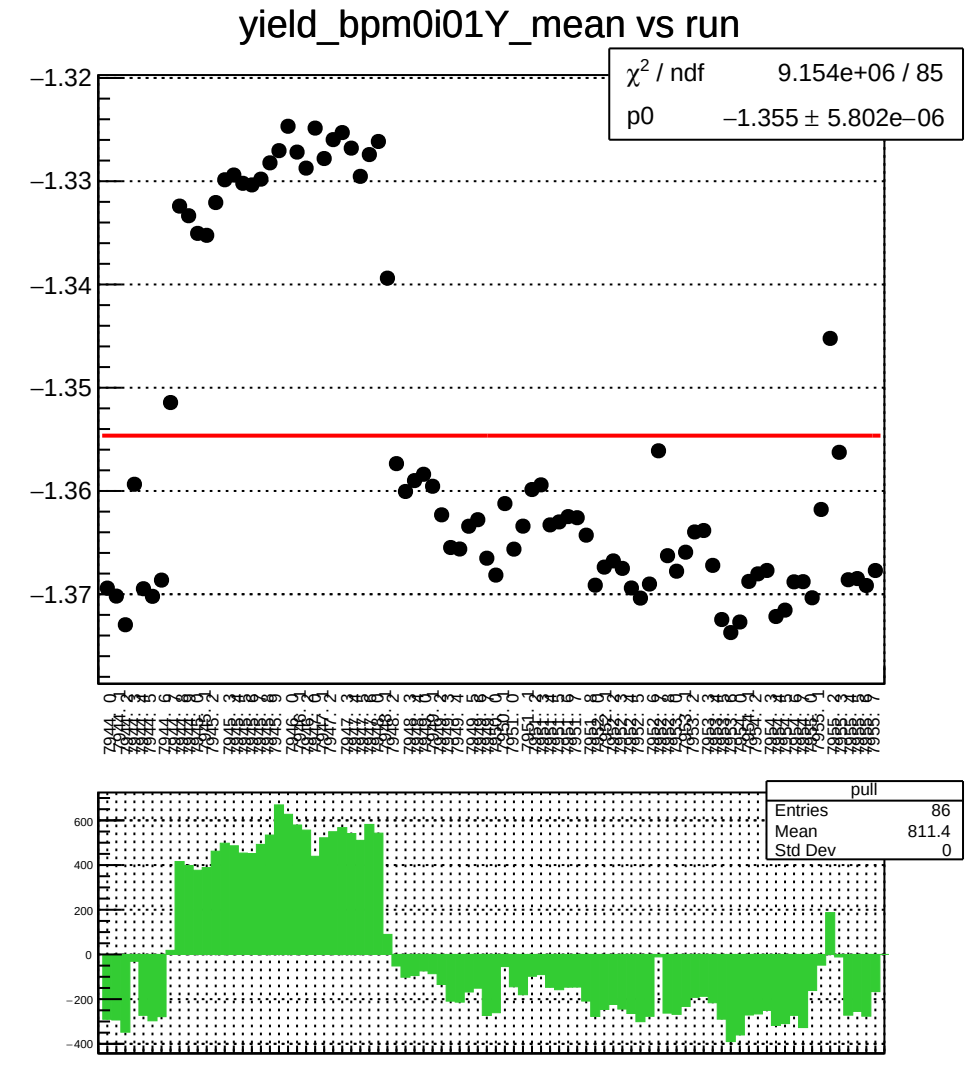

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

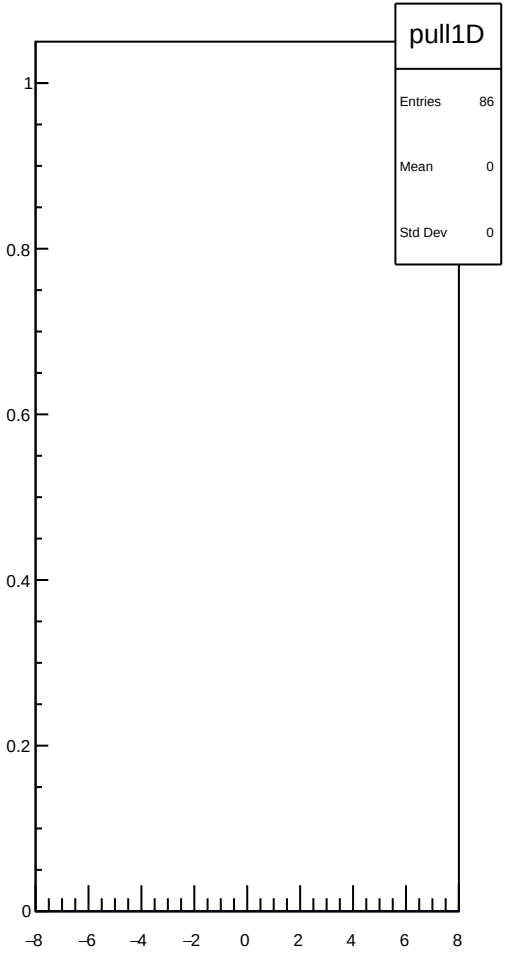

yield_bpm2i02Y_rms vs run
χ² / ndf 7804 / 85
p0 0.01008 ± 7.938e–06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

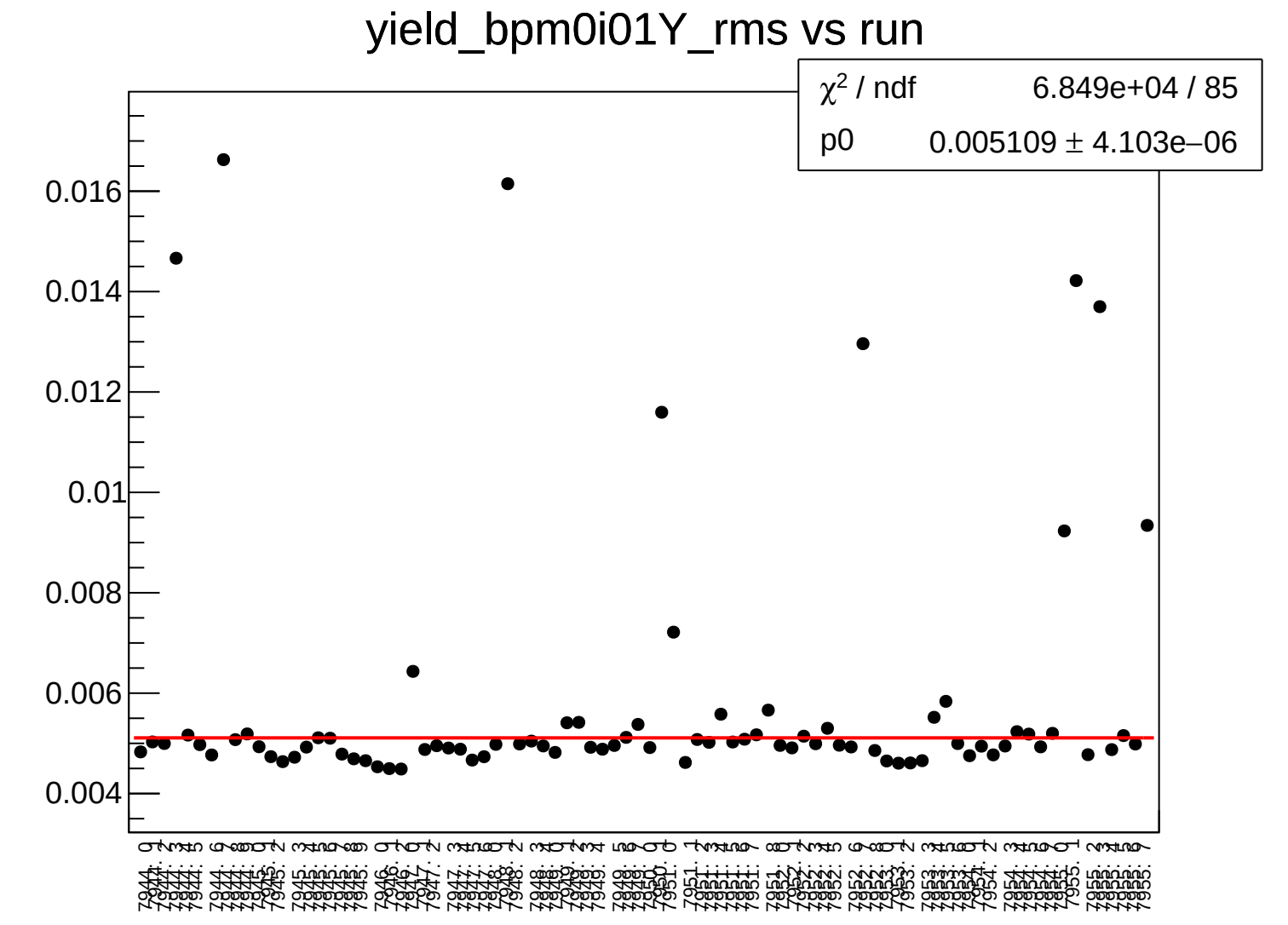

yield_bpm0i01X_mean vs run
χ² / ndf 5.792e+06 / 85
p0 −0.2213 ± 9.466e−06
pull
Entries 86
Mean 262.7
Std Dev 0

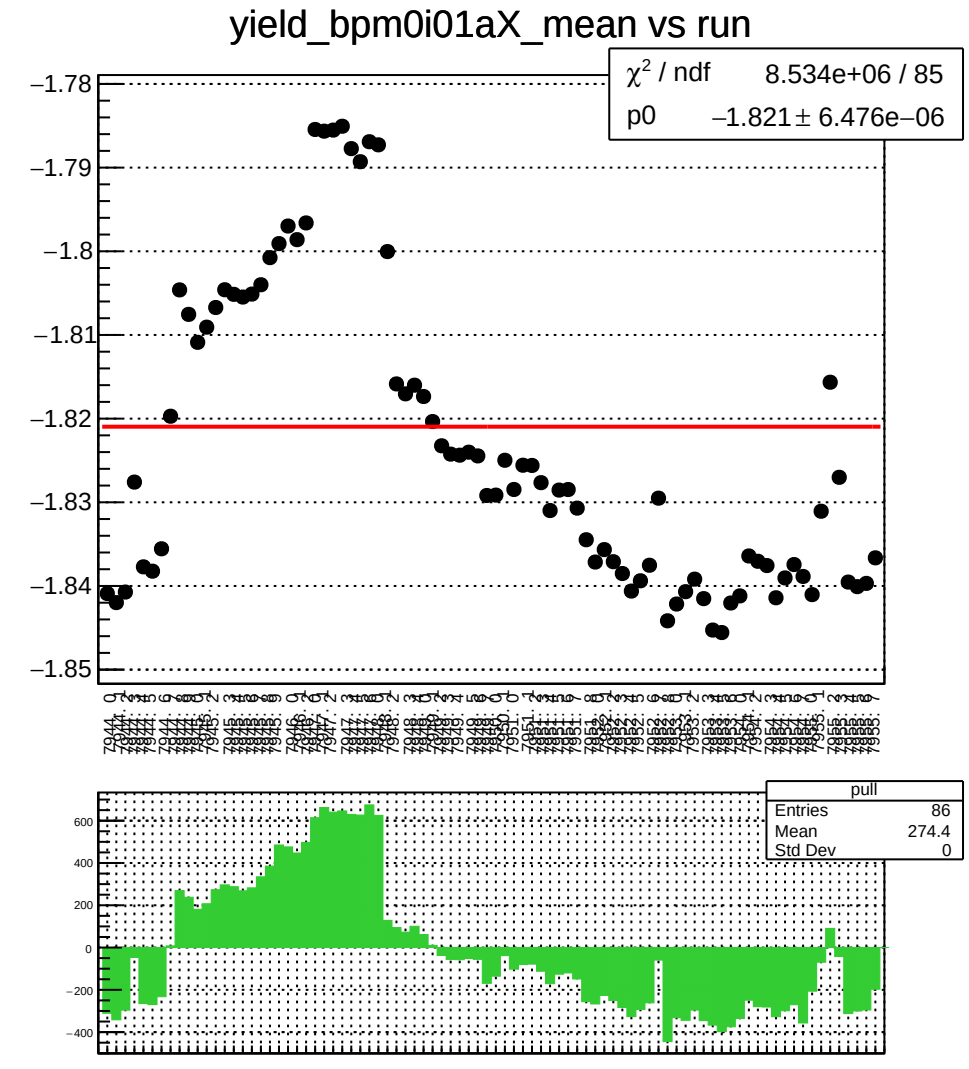

pull1D
Entries 86
Mean 2.861
Std Dev 2.134

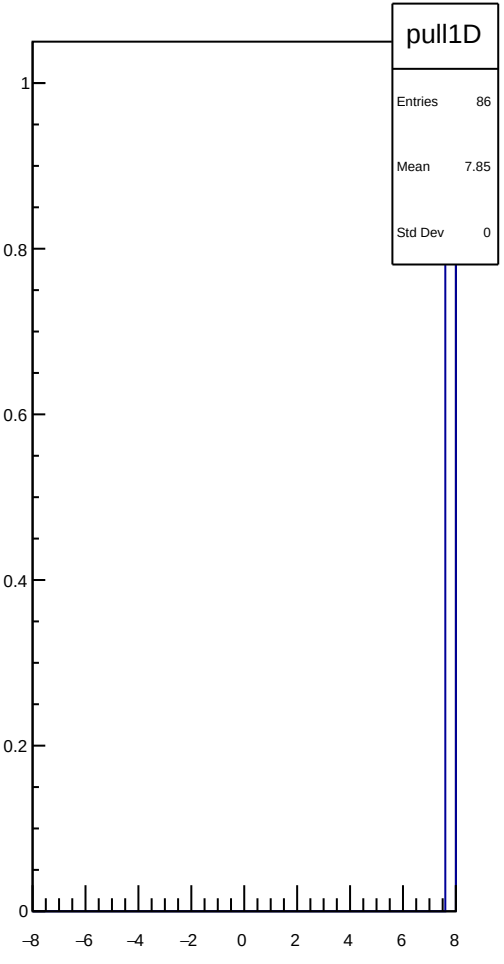

yield_bpm0i01X_rms vs run
χ² / ndf 4.514e+04 / 85
p0 0.008398 ± 6.694e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

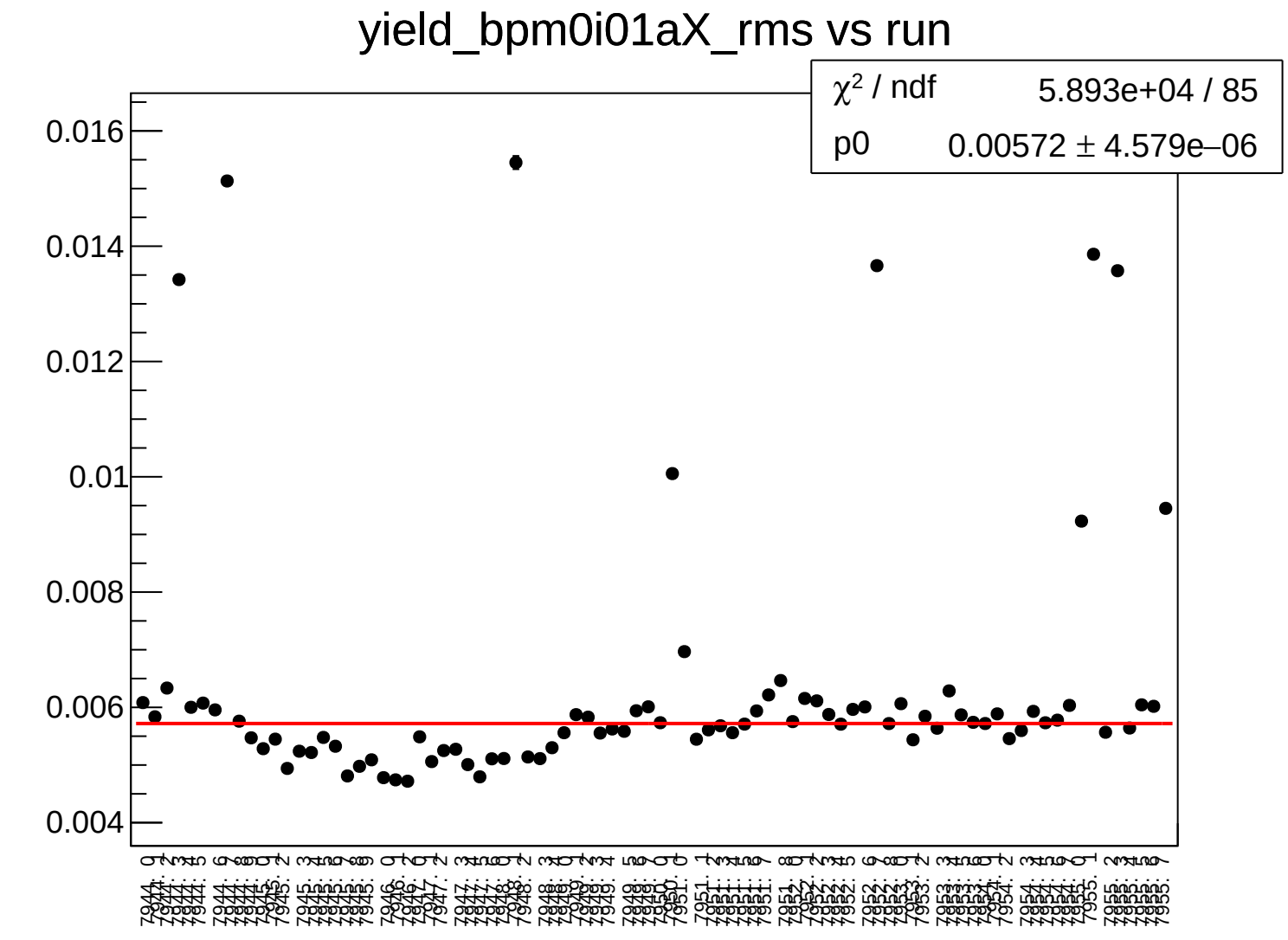

yield_bpm0i01Y_mean vs run
χ² / ndf 9.154e+06 / 85
p0 −1.355 ± 5.802e−06
−1.32
−1.33
−1.34
−1.35
−1.36
−1.37
pull
Entries 86
Mean 811.4
Std Dev 0
600
400
200
0
−200
−400

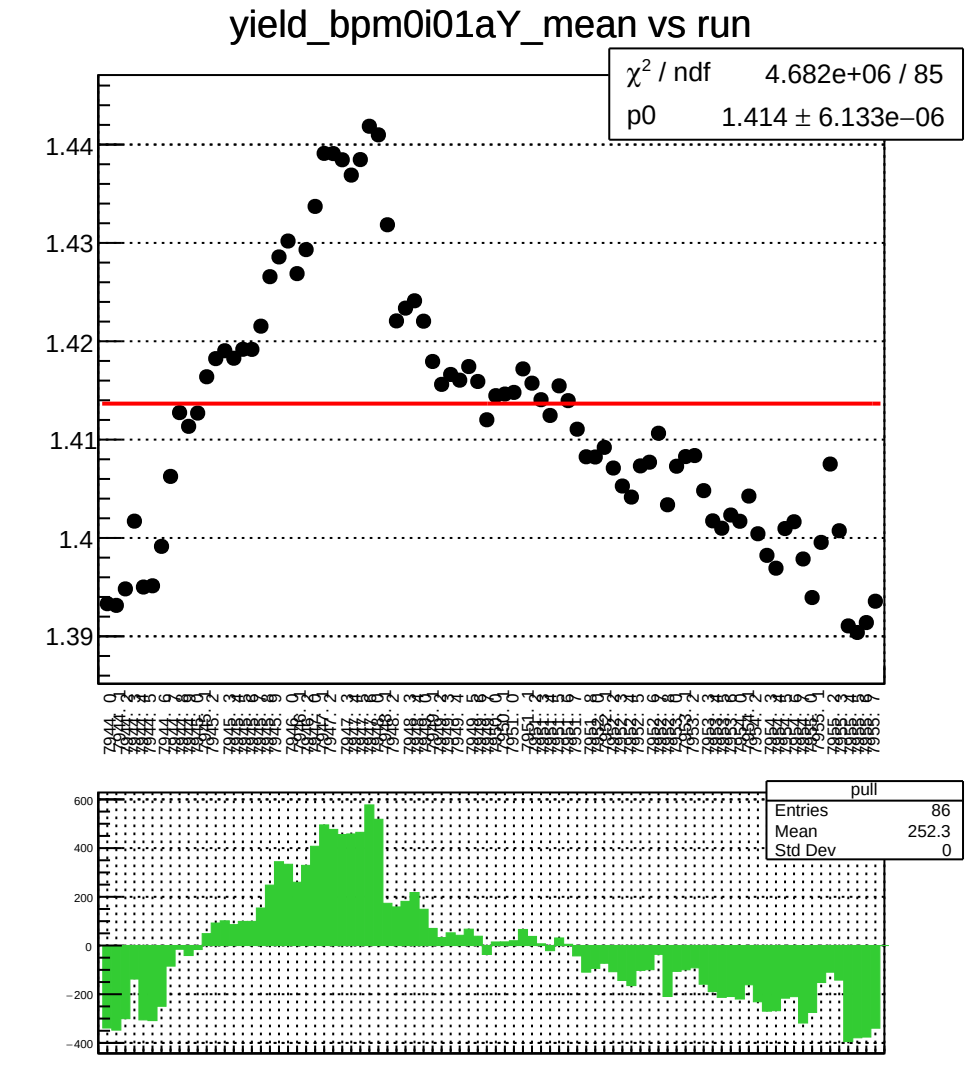

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

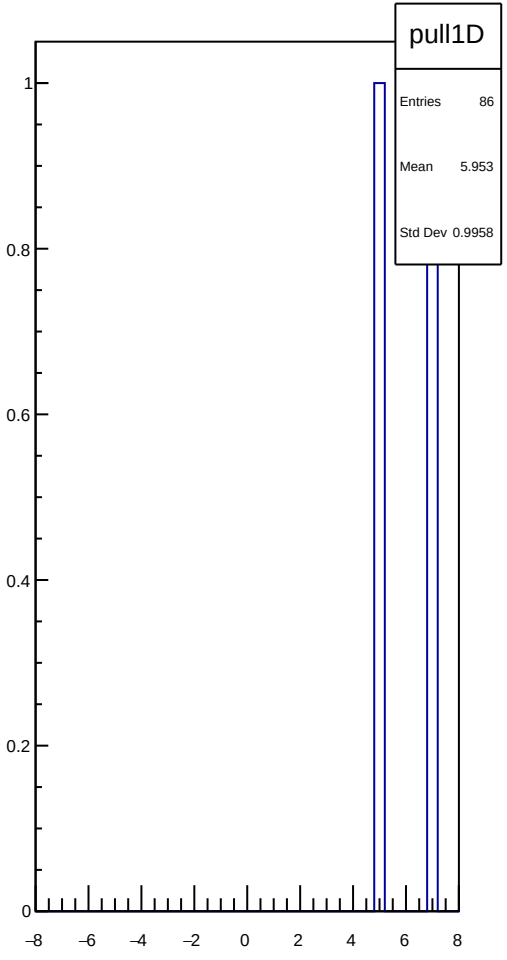

yield_bpm0i01Y_rms vs run
χ^2 / ndf 6.849e+04 / 85
p0 0.005109 ± 4.103e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

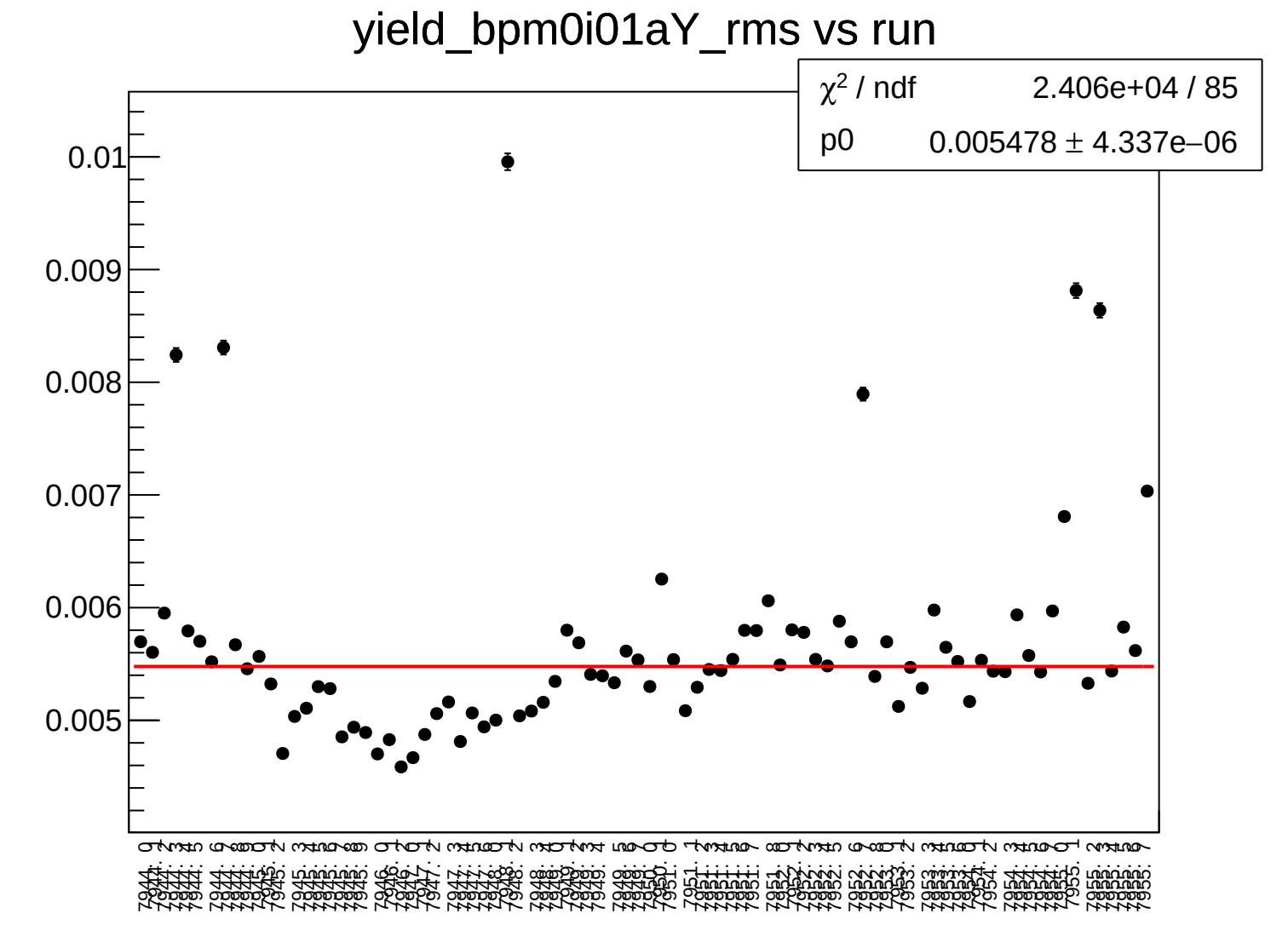

yield_bpm0i01aX_mean vs run
χ² / ndf 8.534e+06 / 85
p0 −1.821 ± 6.476e−06
−1.78
−1.79
−1.8
−1.81
−1.82
−1.83
−1.84
−1.85
pull
Entries 86
Mean 274.4
Std Dev 0
600
400
200
0
−200
−400

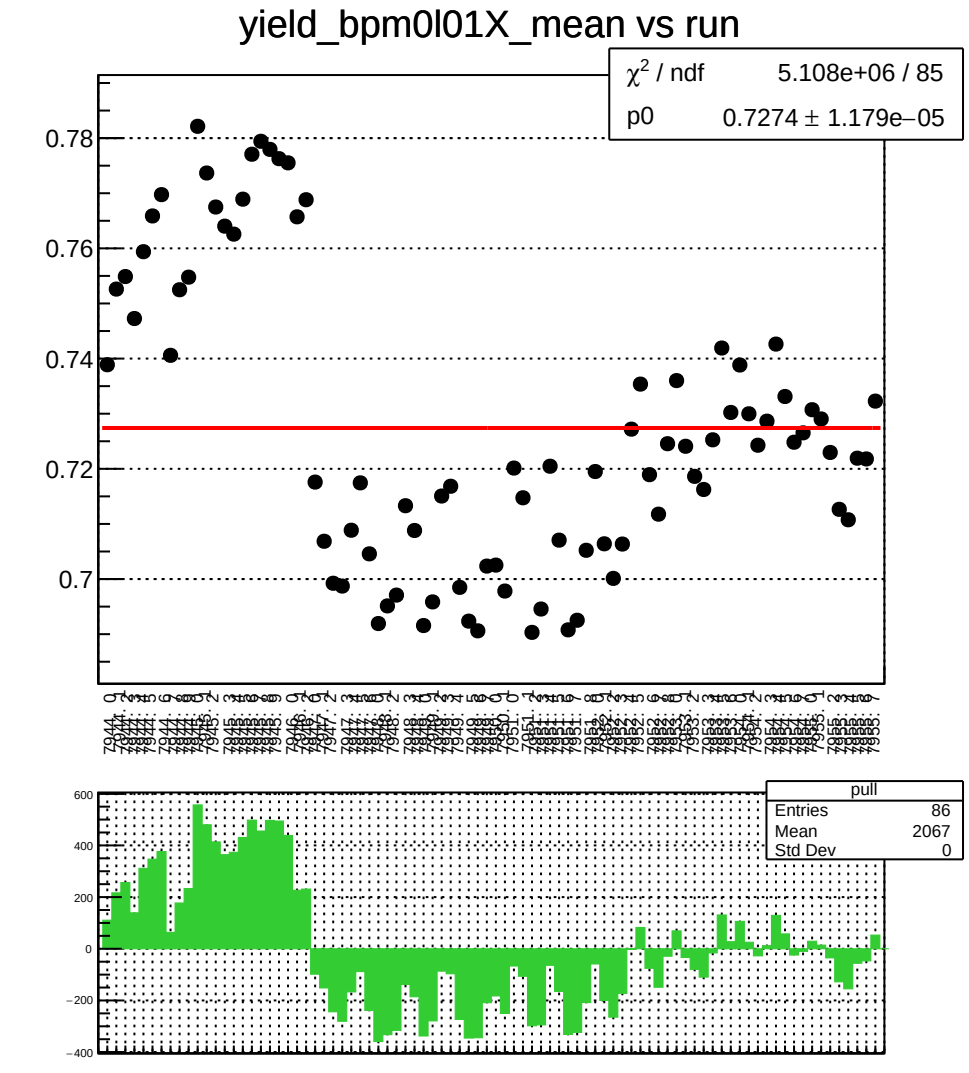

pull1D
Entries 86
Mean 7.85
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

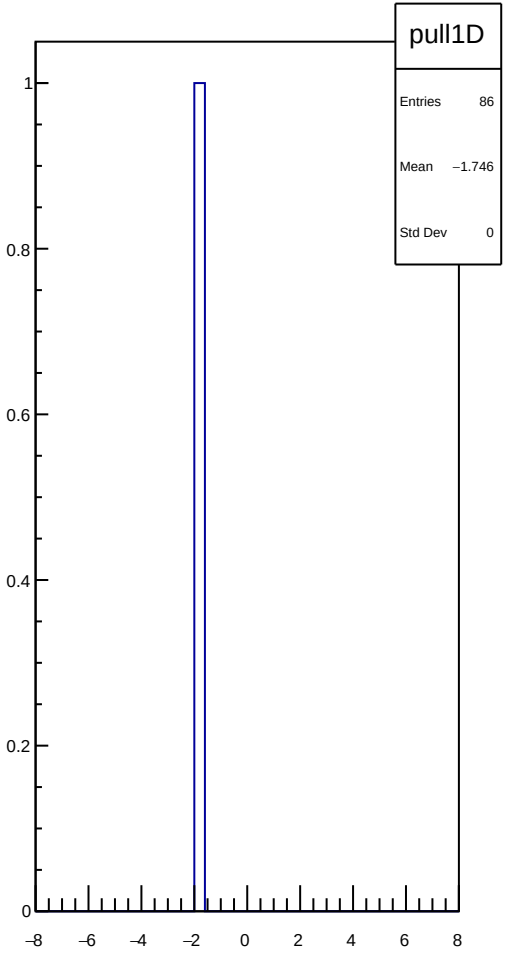

yield_bpm0i01aX_rms vs run
χ² / ndf 5.893e+04 / 85
p0 0.00572 ± 4.579e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

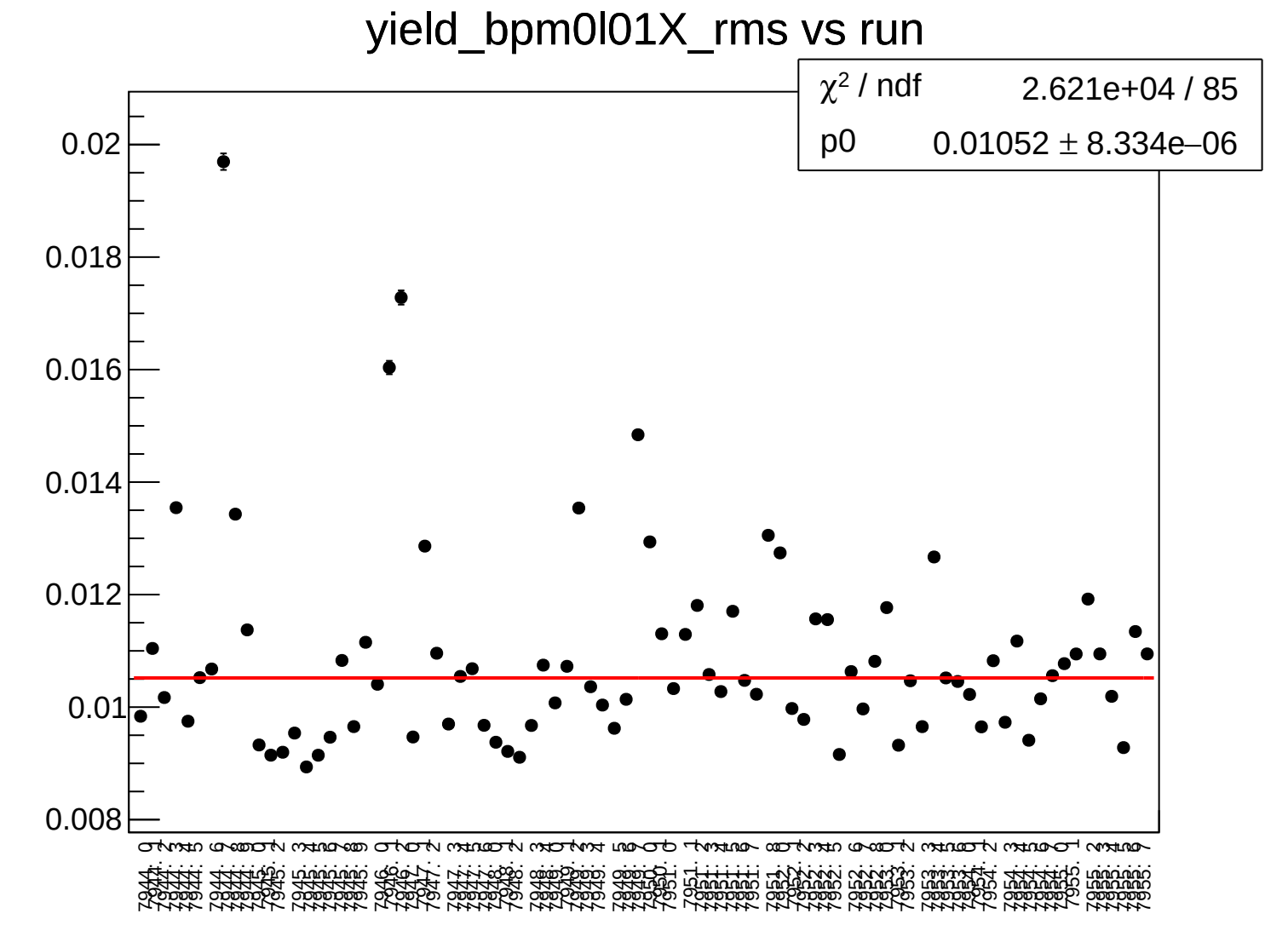

yield_bpm0i01aY_mean vs run
χ² / ndf 4.682e+06 / 85
p0 1.414 ± 6.133e−06
1.44
1.43
1.42
1.41
1.4
1.39
pull
Entries 86
Mean 252.3
Std Dev 0
600
400
200
0
−200
−400

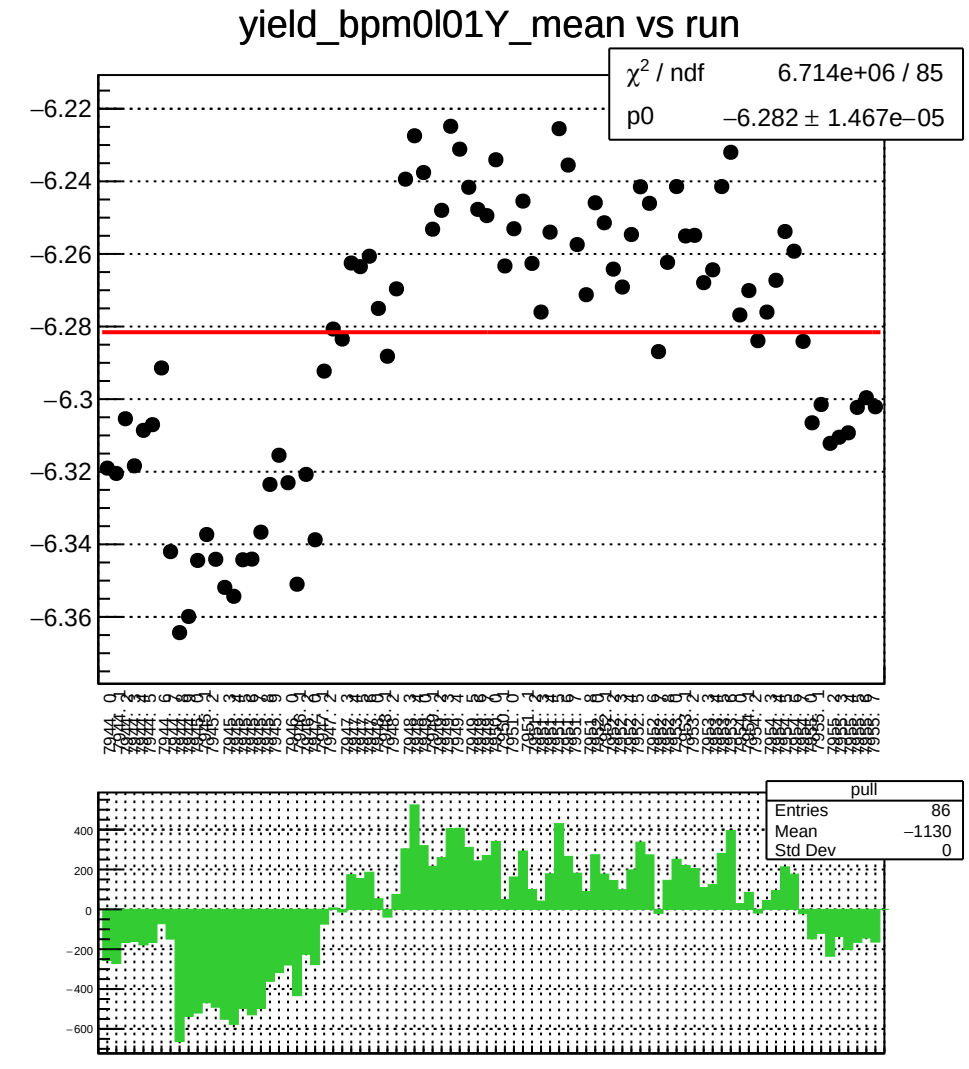

pull1D
Entries 86
Mean 5.953
Std Dev 0.9958
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

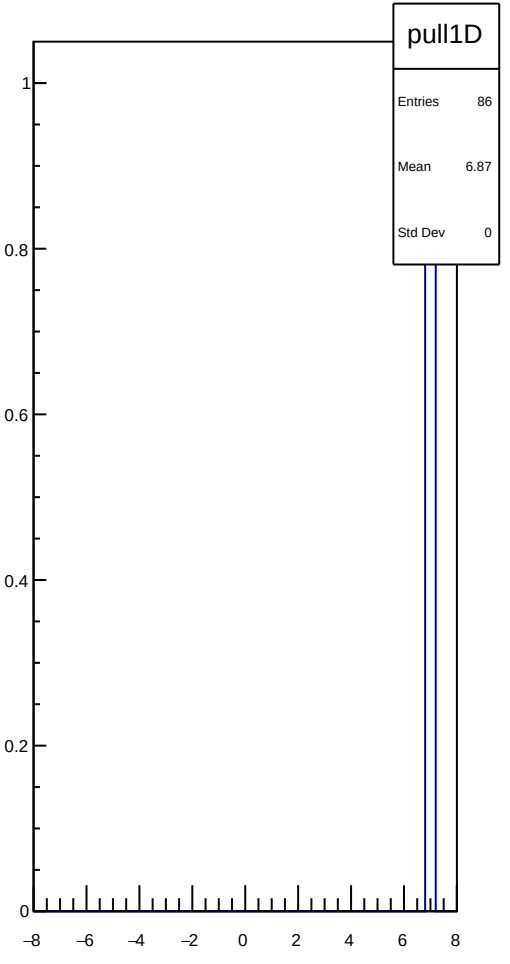

yield_bpm0i01aY_rms vs run
χ² / ndf 2.406e+04 / 85
p0 0.005478 ± 4.337e−06
0.01
0.009
0.008
0.007
0.006
0.005

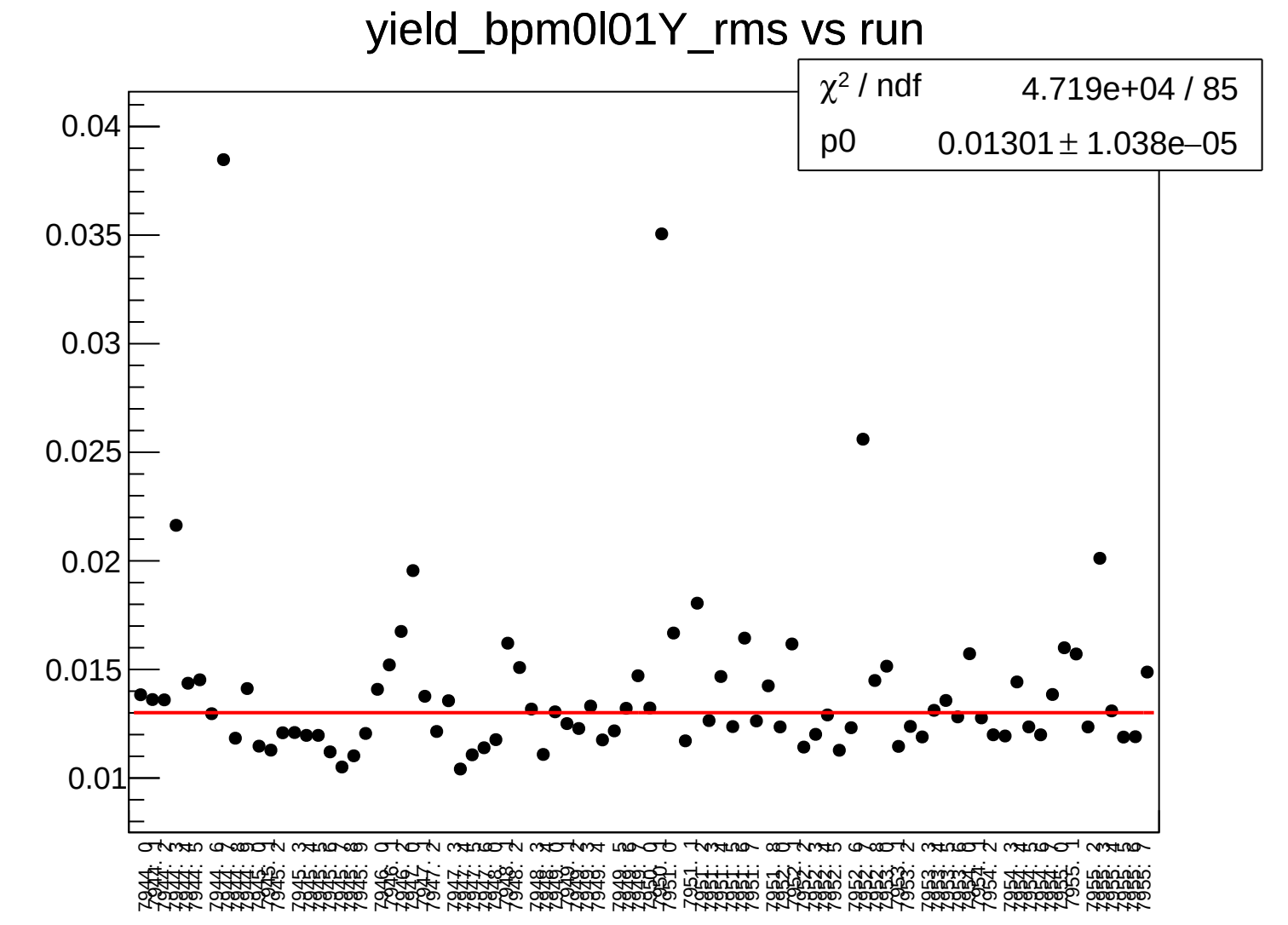

yield_bpm0l01X_mean vs run
χ² / ndf 5.108e+06 / 85
p0 0.7274 ± 1.179e−05
0.78
0.76
0.74
0.72
0.7
pull
Entries 86
Mean 2067
Std Dev 0
600
400
200
0
−200
−400

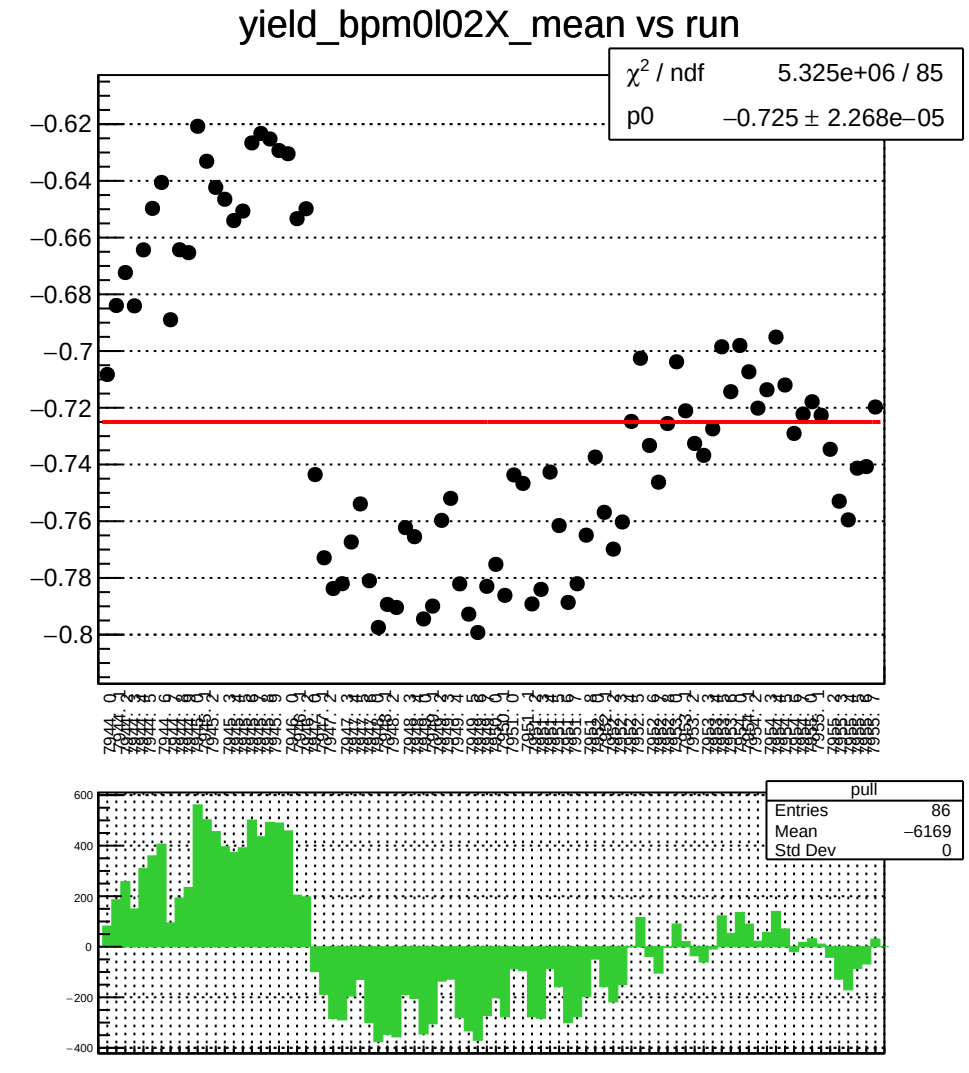

pull1D
Entries 86
Mean −1.746
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

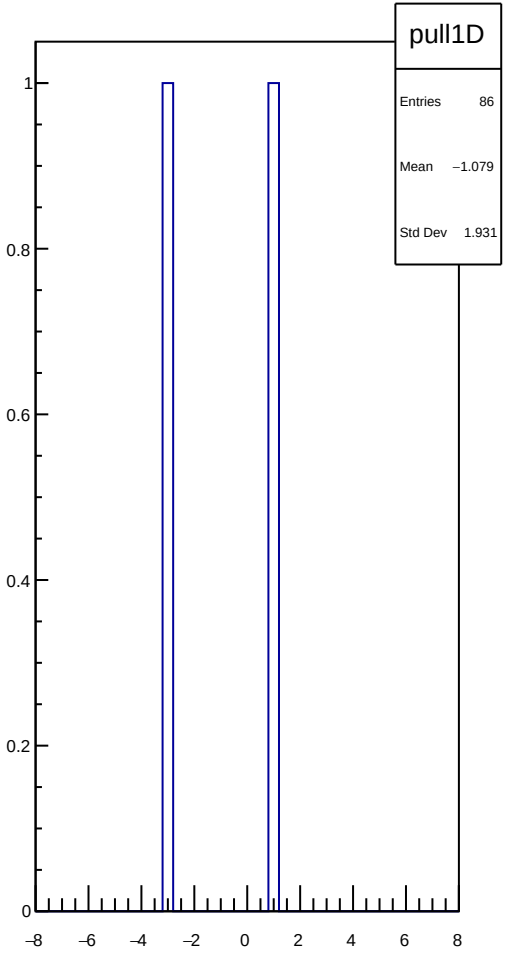

yield_bpm0l01X_rms vs run
χ² / ndf 2.621e+04 / 85
p0 0.01052 ± 8.334e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

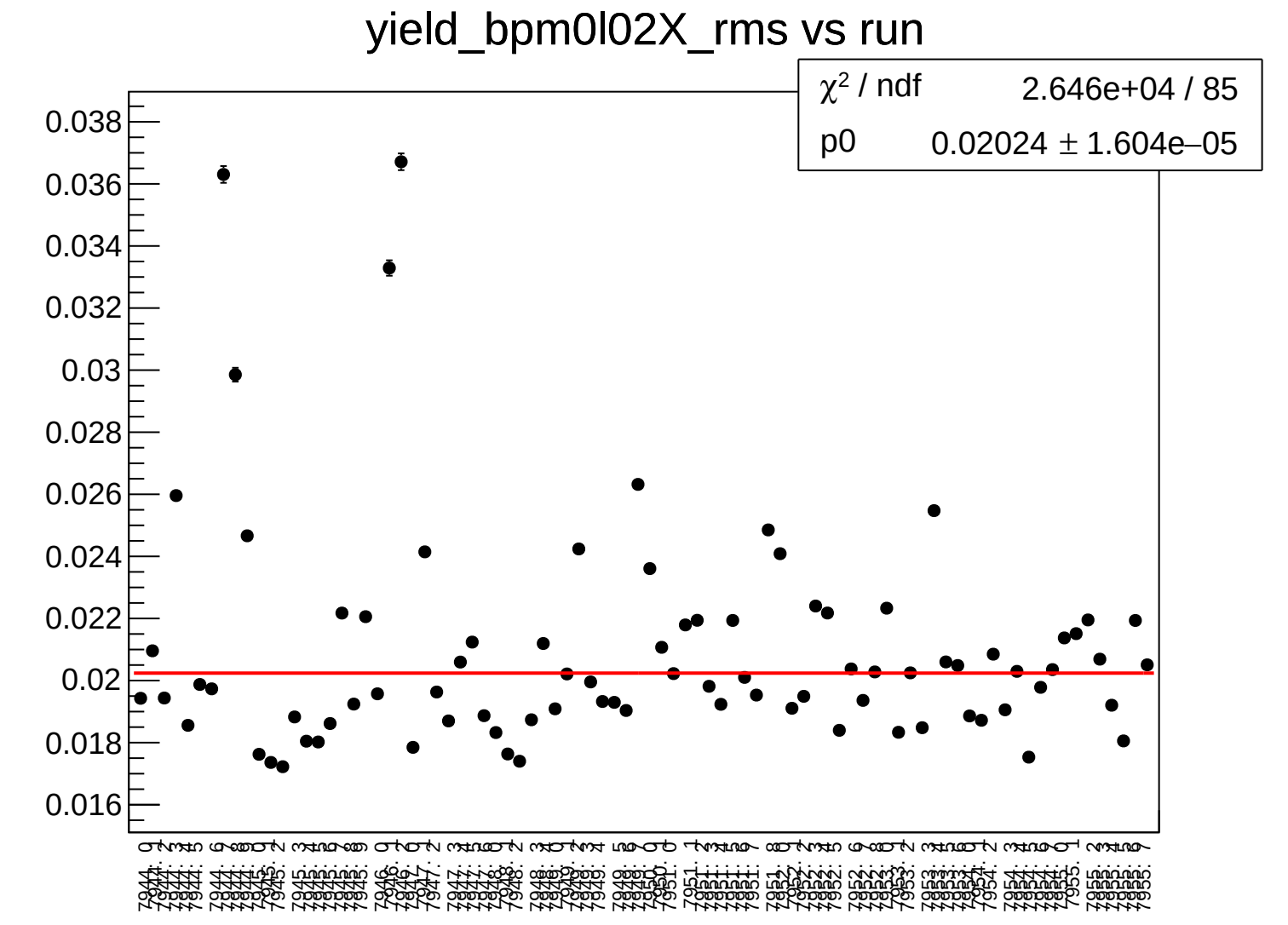

yield_bpm0l01Y_mean vs run
χ² / ndf 6.714e+06 / 85
p0 −6.282 ± 1.467e−05
−6.22
−6.24
−6.26
−6.28
−6.3
−6.32
−6.34
−6.36
pull
Entries 86
Mean −1130
Std Dev 0
400
200
0
−200
−400
−600

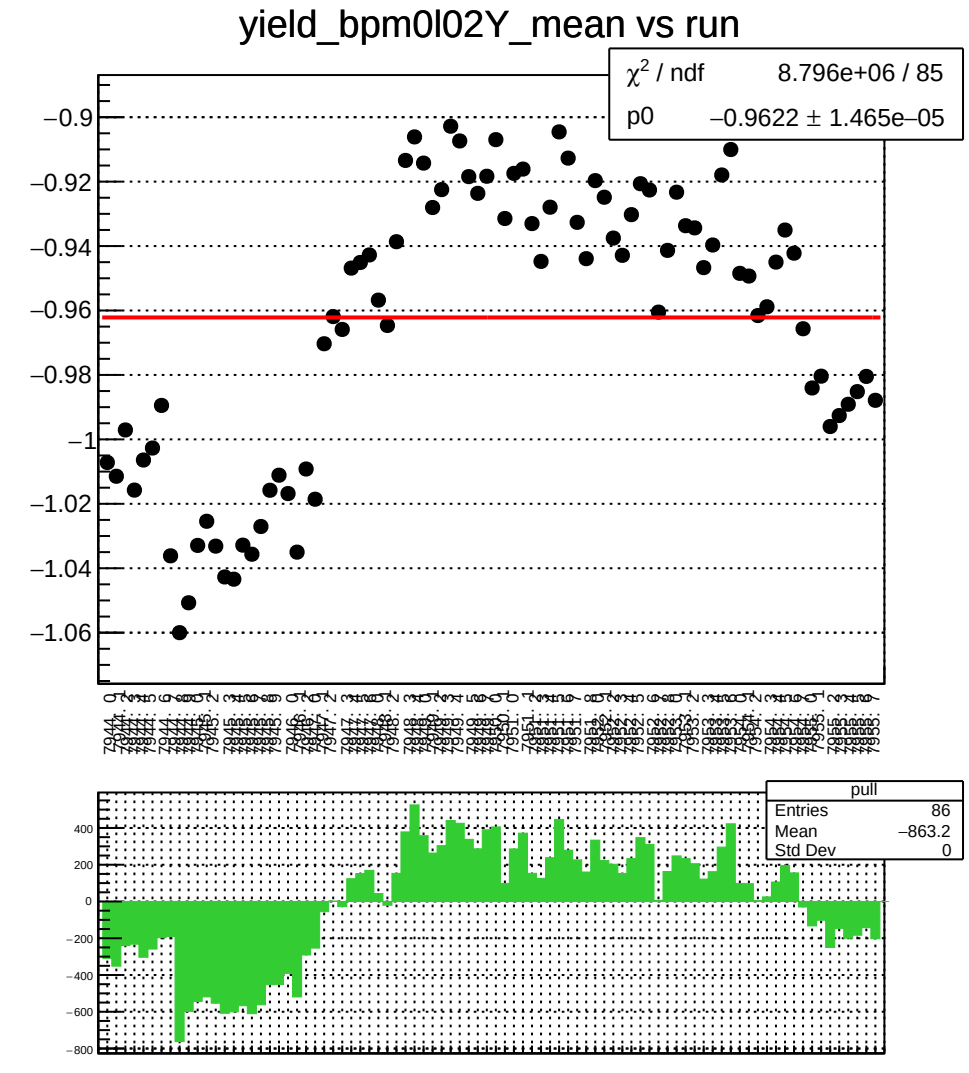

pull1D
Entries 86
Mean 6.87
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

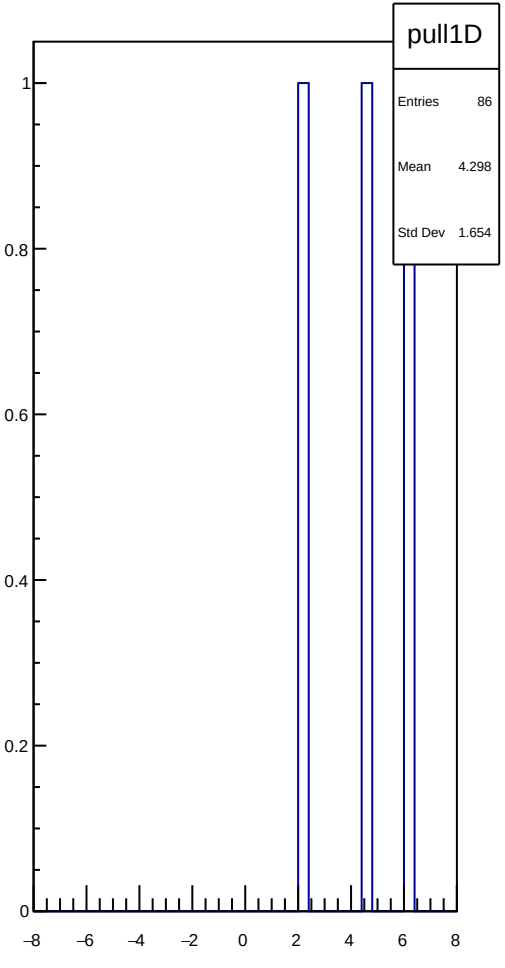

yield_bpm0l01Y_rms vs run
χ² / ndf 4.719e+04 / 85
p0 0.01301 ± 1.038e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

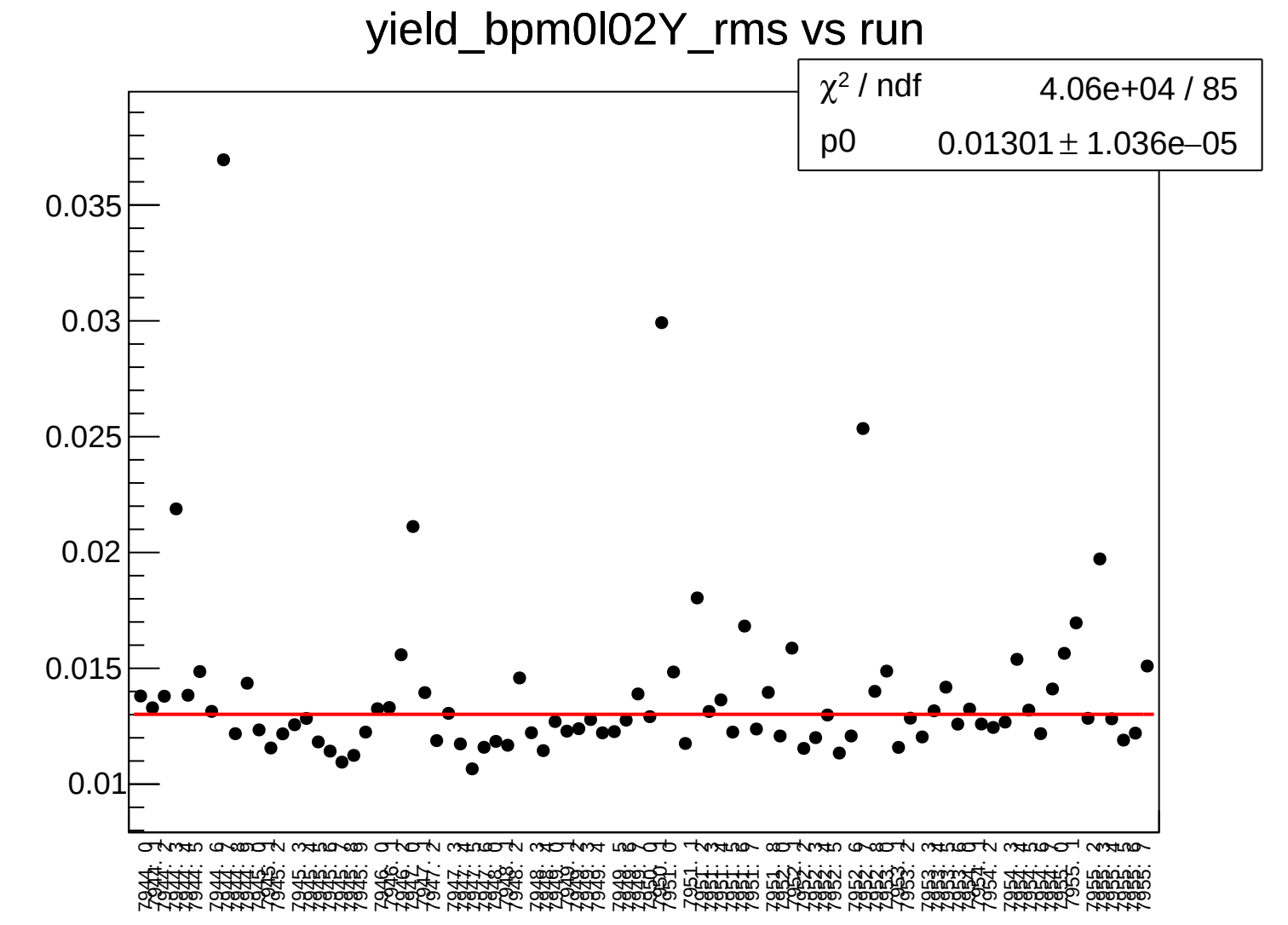

yield_bpm0l02X_mean vs run
χ² / ndf 5.325e+06 / 85
p0 −0.725 ± 2.268e−05
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
pull
Entries 86
Mean −6169
Std Dev 0
600
400
200
0
−200
−400

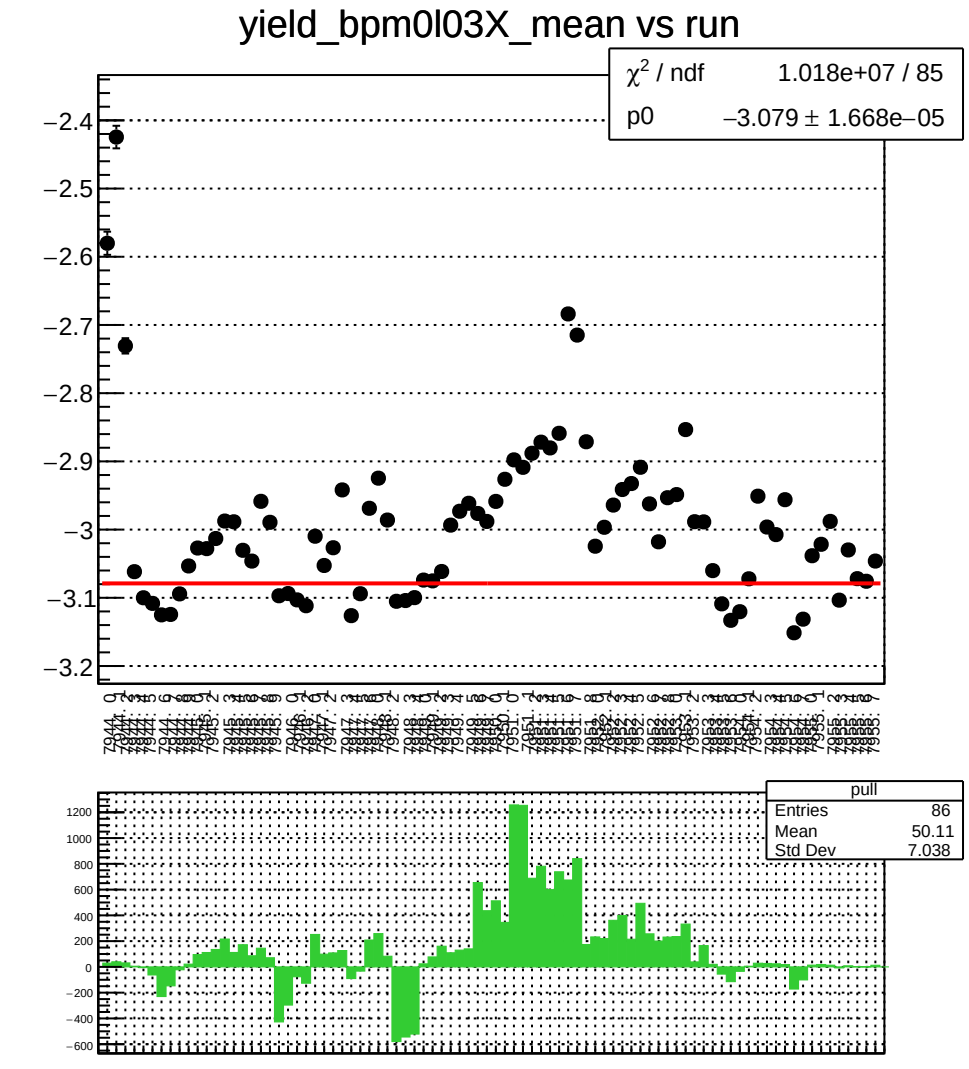

pull1D
Entries 86
Mean −1.079
Std Dev 1.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

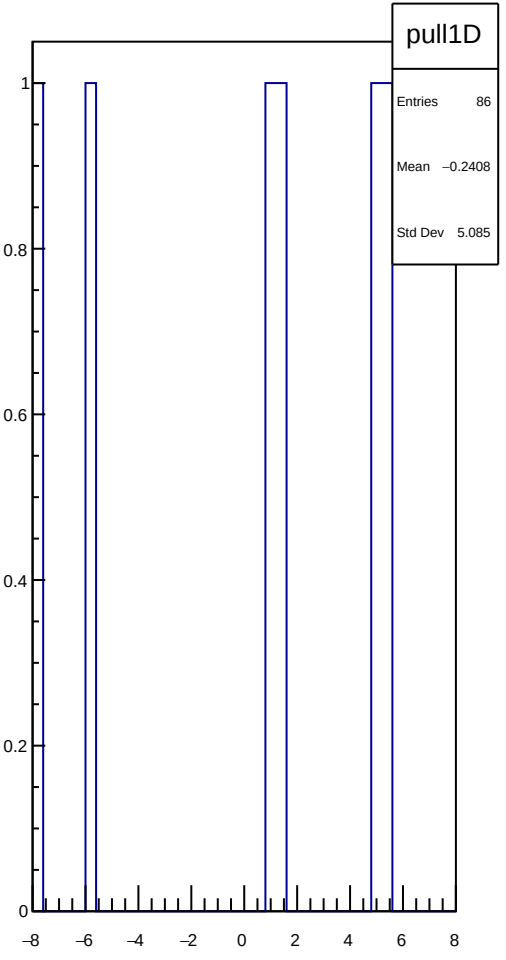

yield_bpm0l02X_rms vs run
χ² / ndf 2.646e+04 / 85
p0 0.02024 ± 1.604e–05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

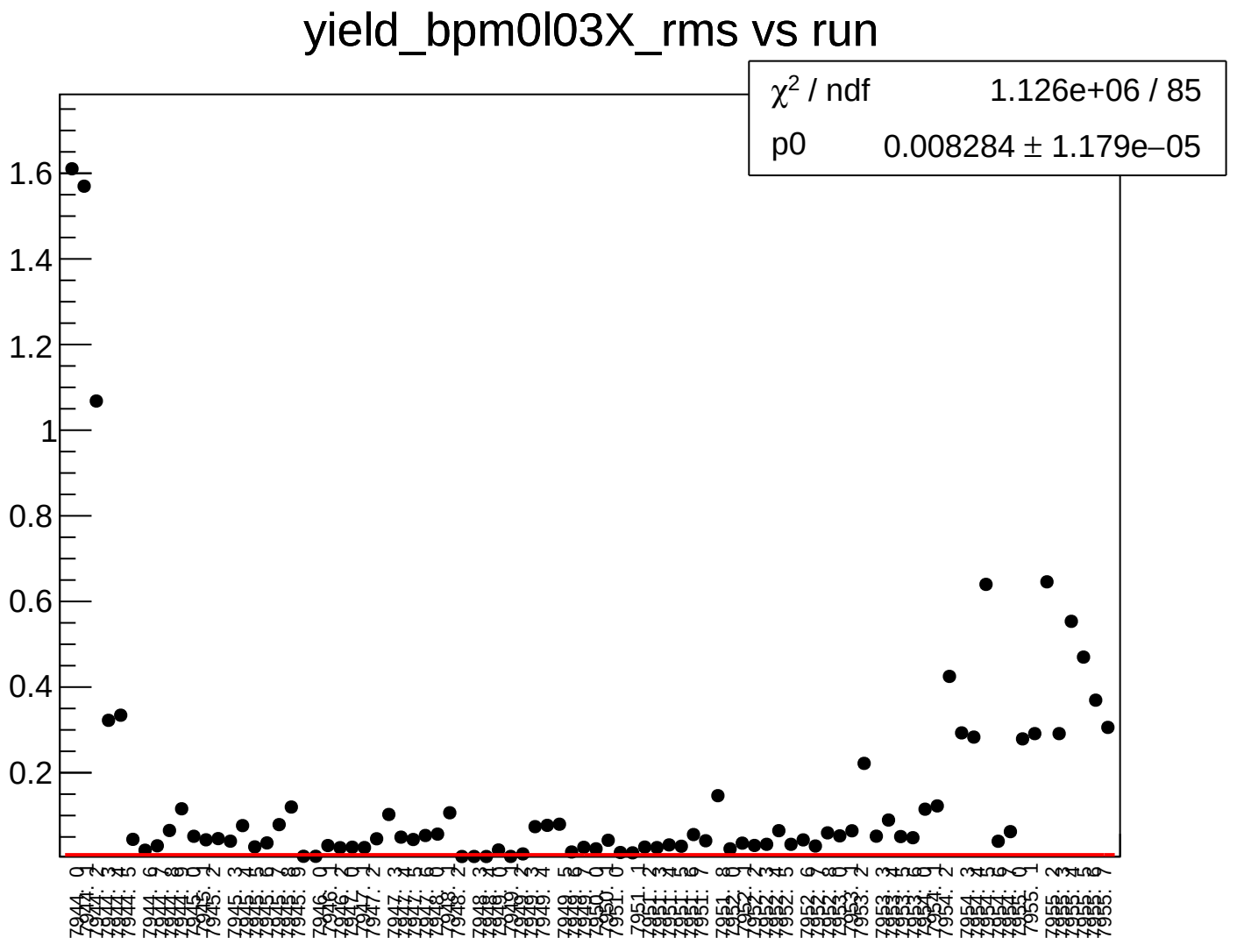

yield_bpm0l02Y_mean vs run
χ² / ndf 8.796e+06 / 85
p0 −0.9622 ± 1.465e−05
pull
Entries 86
Mean −863.2
Std Dev 0

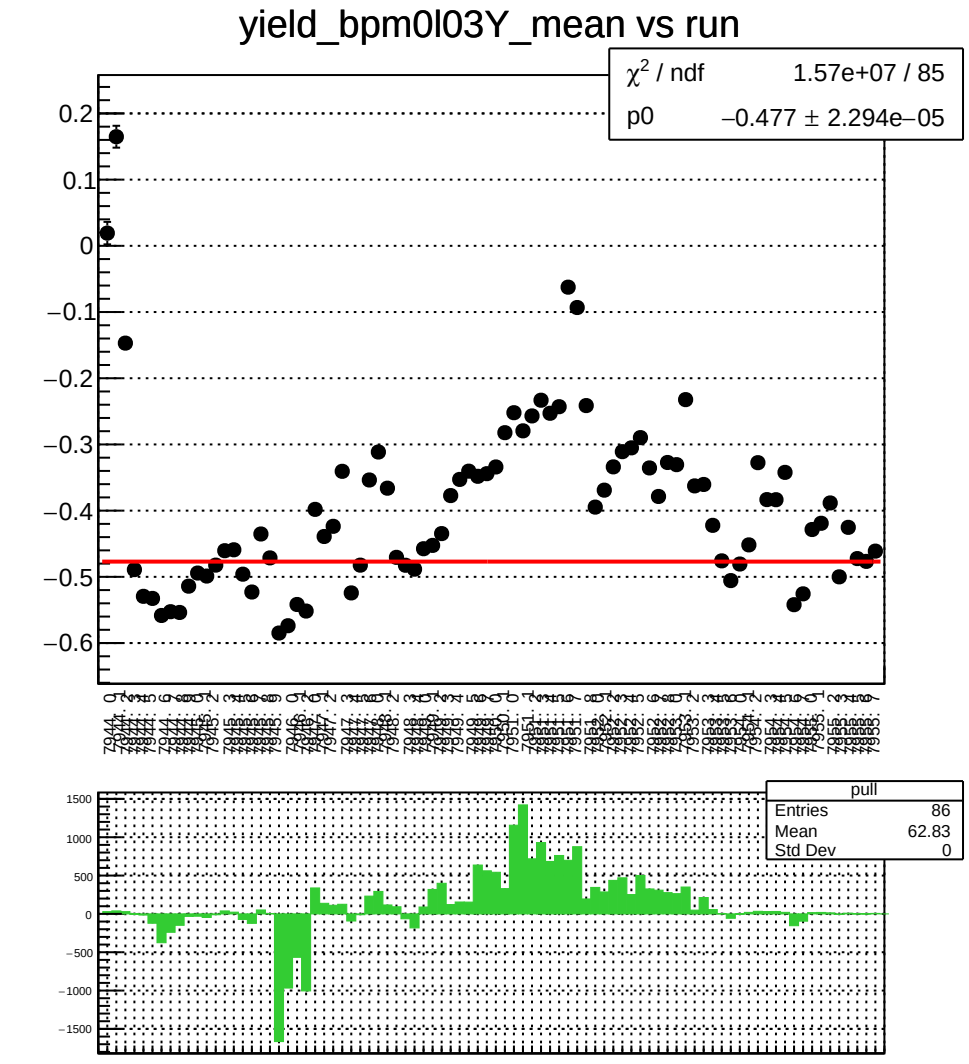

pull1D
Entries 86
Mean 4.298
Std Dev 1.654

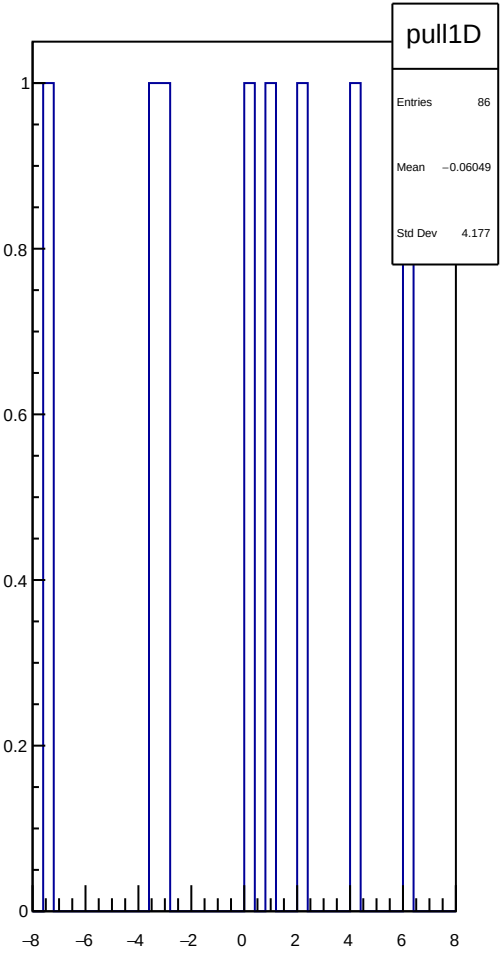

yield_bpm0l02Y_rms vs run
χ² / ndf 4.06e+04 / 85
p0 0.01301 ± 1.036e–05
0.035
0.03
0.025
0.02
0.015
0.01

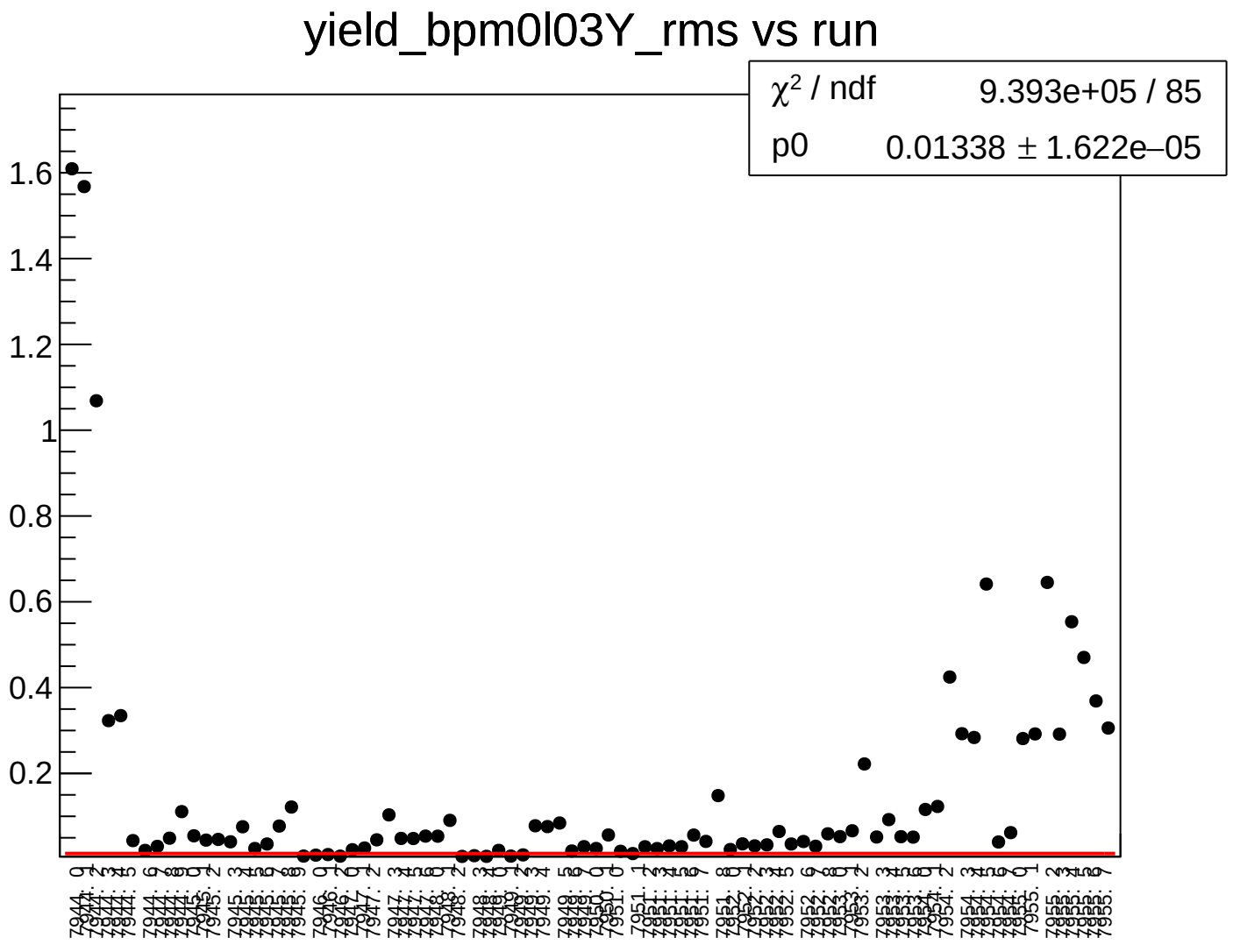

yield_bpm0l03X_mean vs run
χ² / ndf 1.018e+07 / 85
p0 −3.079 ± 1.668e−05
pull
Entries 86
Mean 50.11
Std Dev 7.038

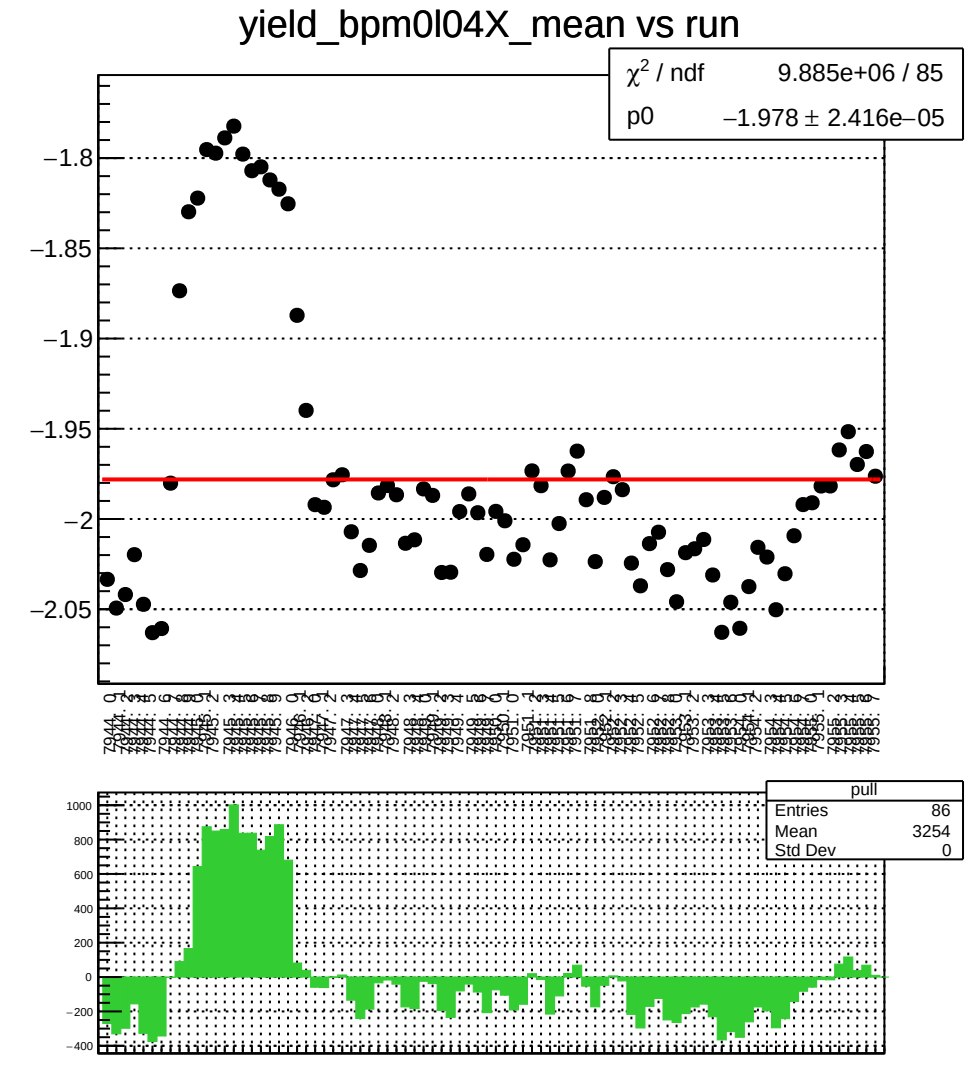

pull1D
Entries 86
Mean −0.2408
Std Dev 5.085

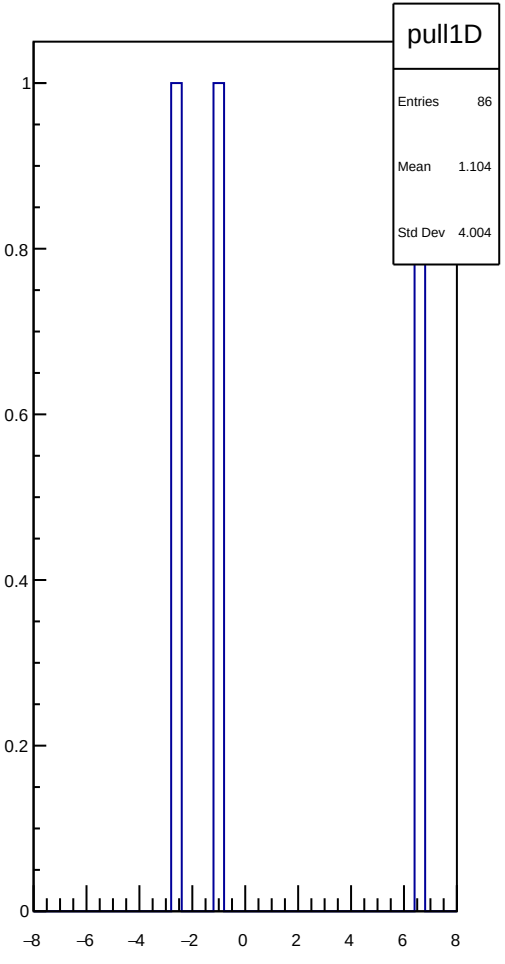

yield_bpm0l03X_rms vs run
χ^2 / ndf 1.126e+06 / 85
p0 0.008284 ± 1.179e−05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

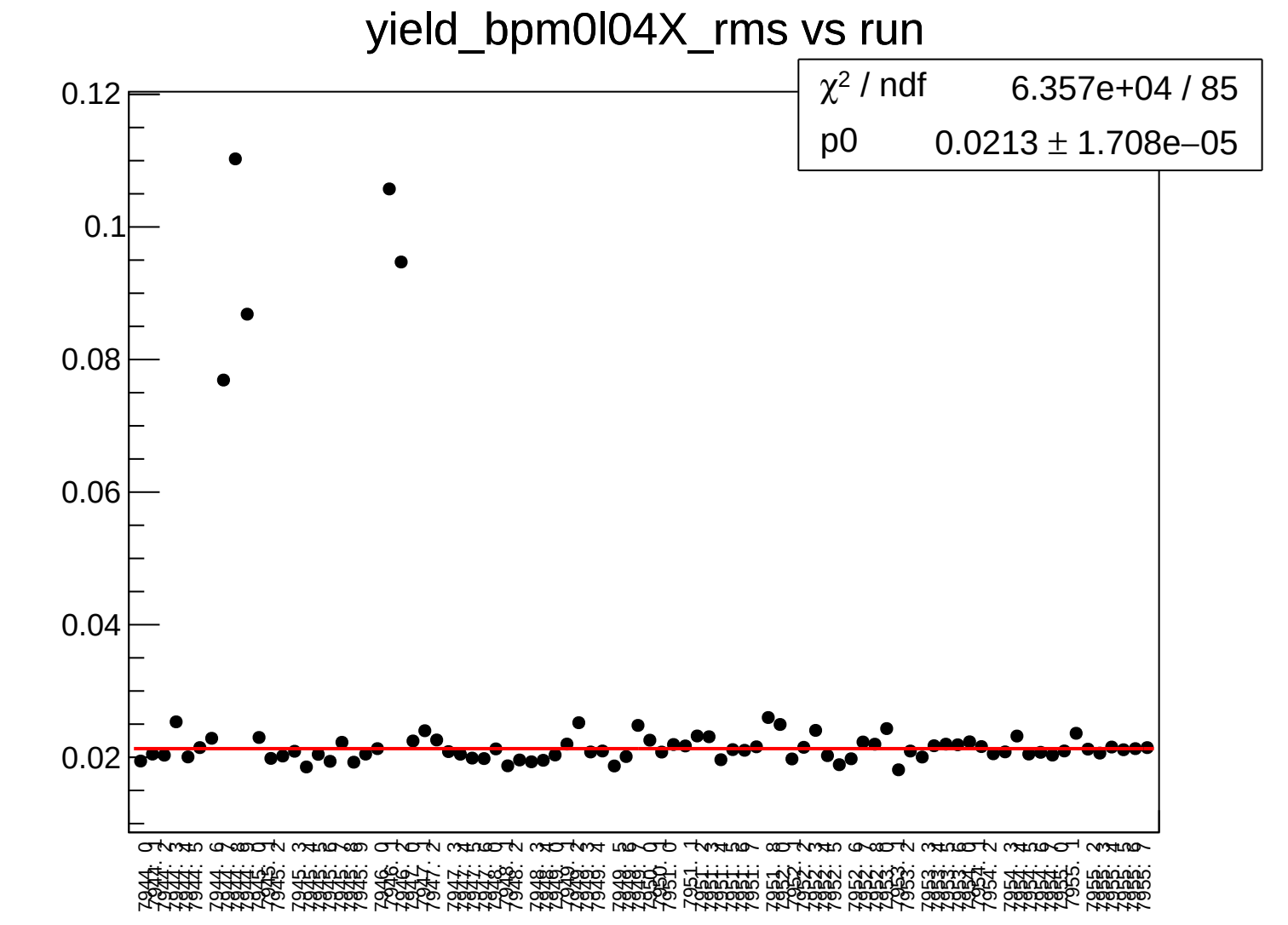

yield_bpm0l03Y_mean vs run
χ² / ndf 1.57e+07 / 85
p0 −0.477 ± 2.294e−05
pull
Entries 86
Mean 62.83
Std Dev 0

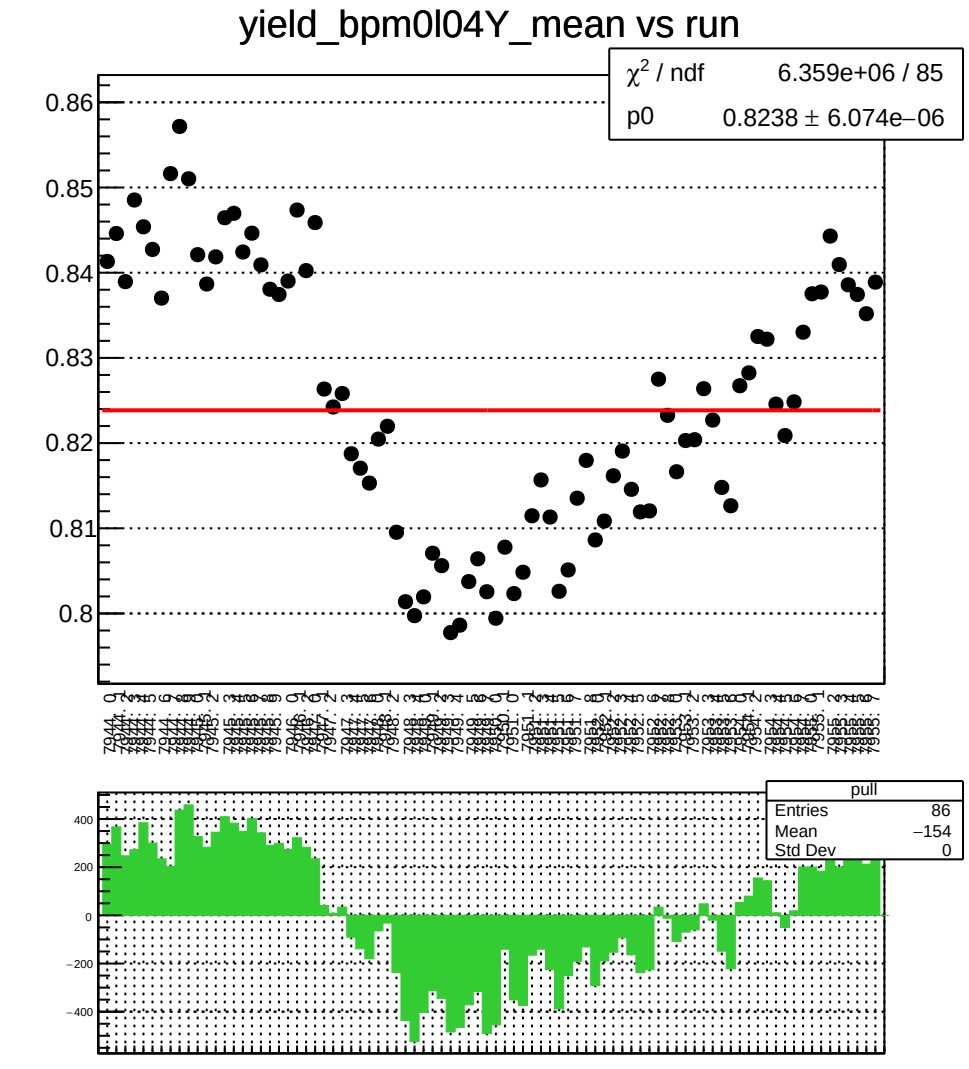

pull1D
Entries 86
Mean −0.06049
Std Dev 4.177

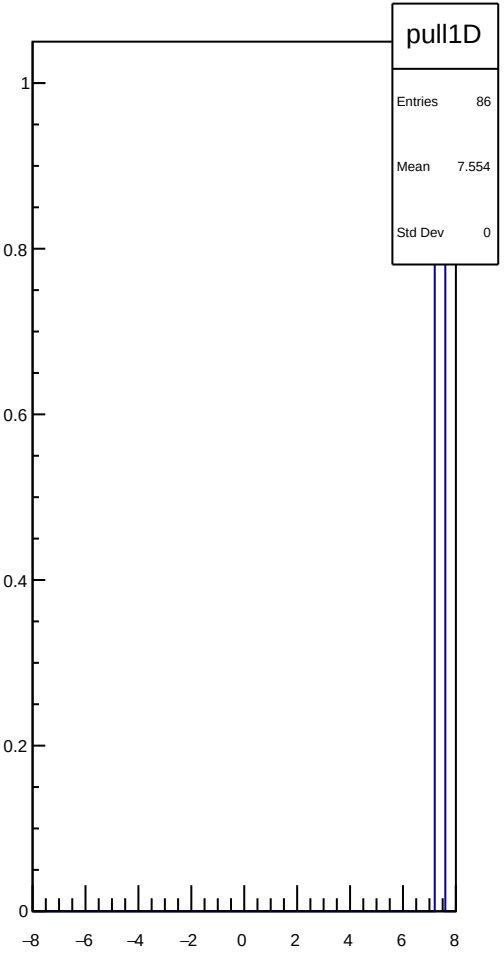

yield_bpm0l03Y_rms vs run
χ² / ndf 9.393e+05 / 85
p0 0.01338 ± 1.622e−05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

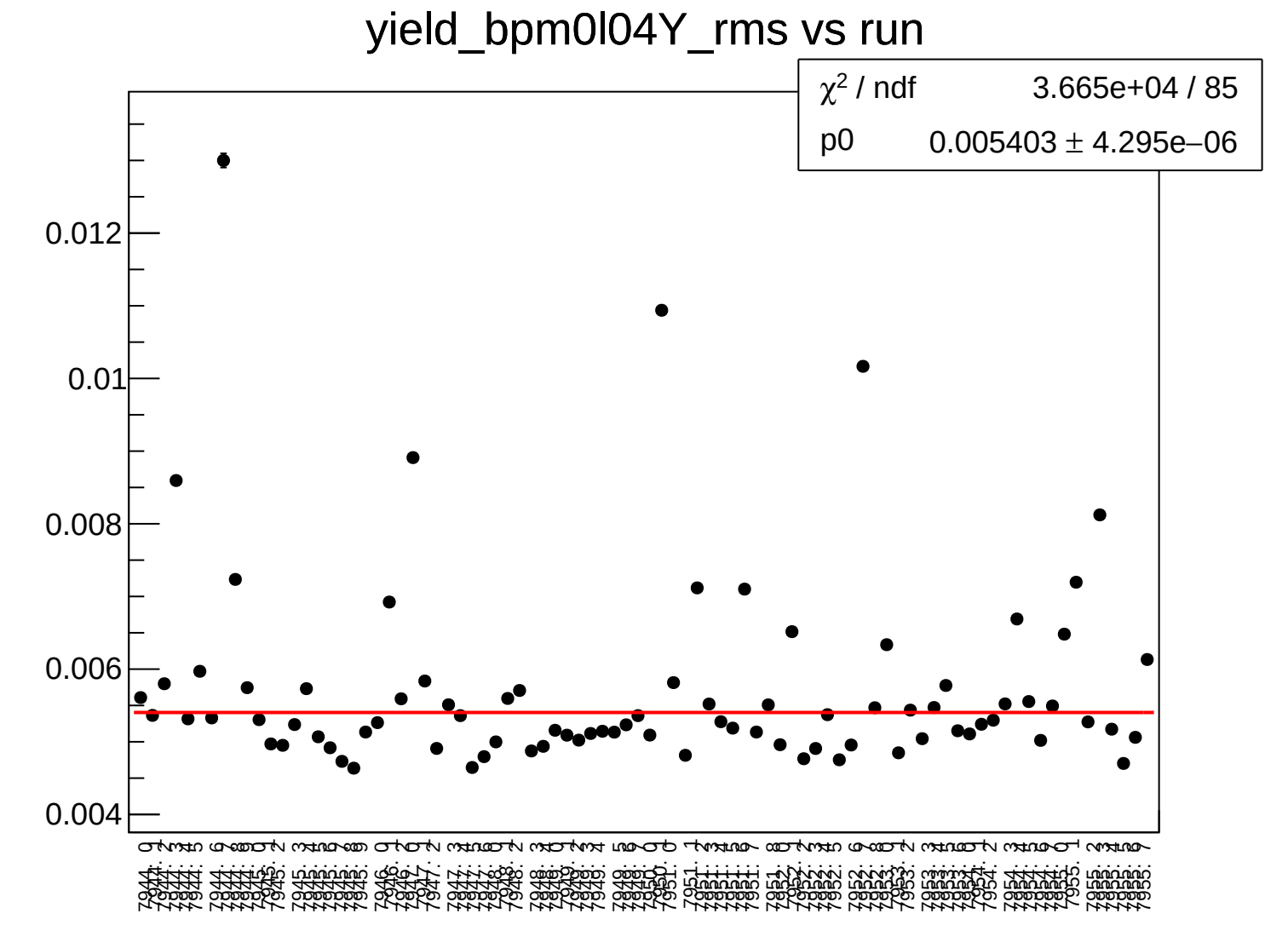

yield_bpm0l04X_mean vs run
χ² / ndf 9.885e+06 / 85
p0 −1.978 ± 2.416e−05
−1.8
−1.85
−1.9
−1.95
−2
−2.05
pull
Entries 86
Mean 3254
Std Dev 0
1000
800
600
400
200
0
−200
−400

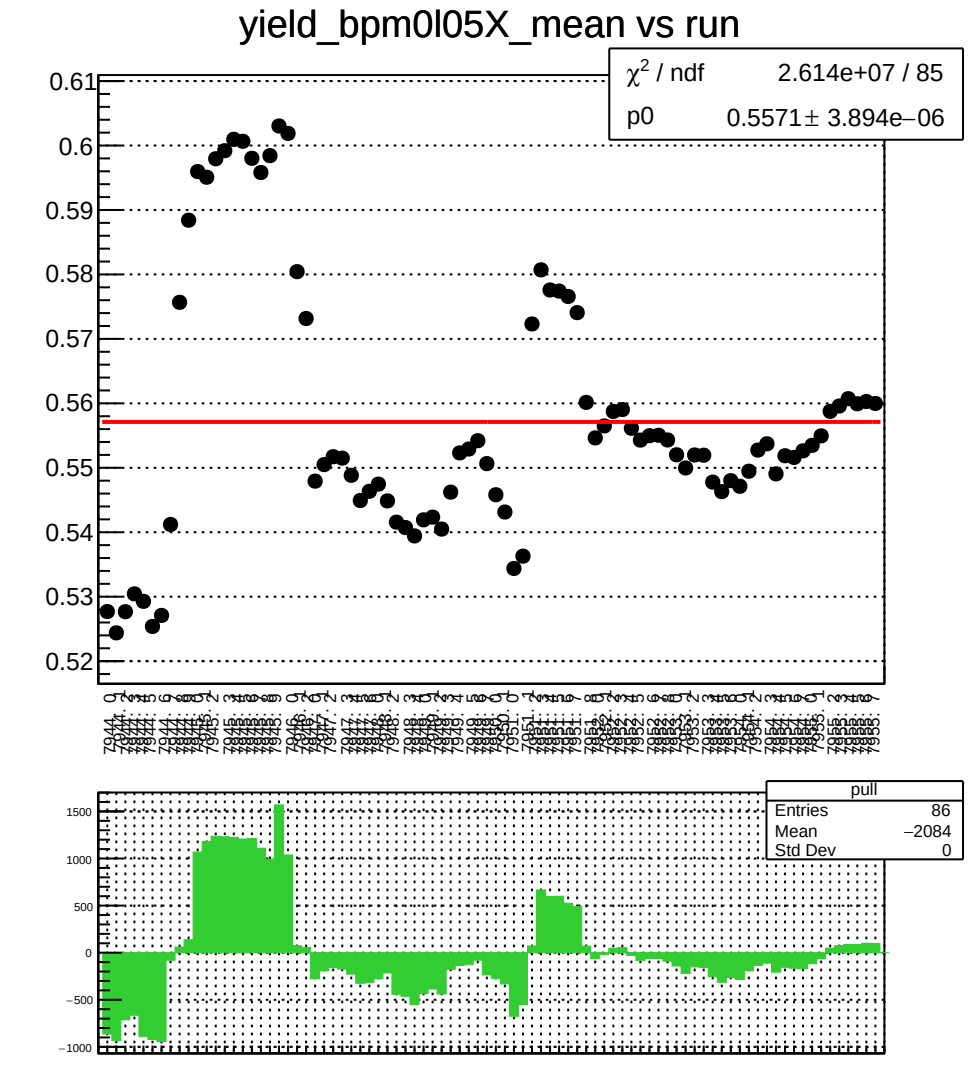

pull1D
Entries 86
Mean 1.104
Std Dev 4.004
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

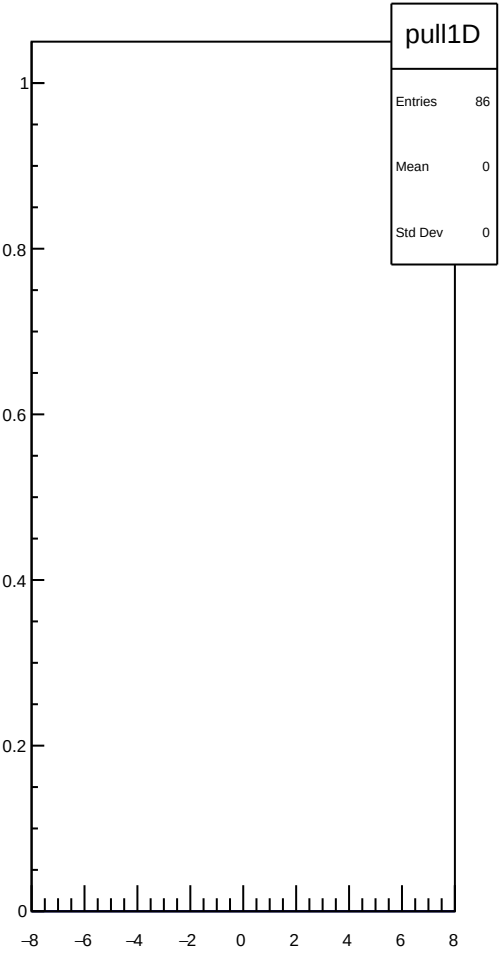

yield_bpm0l04X_rms vs run
χ² / ndf 6.357e+04 / 85
p0 0.0213 ± 1.708e−05
0.12
0.1
0.08
0.06
0.04
0.02

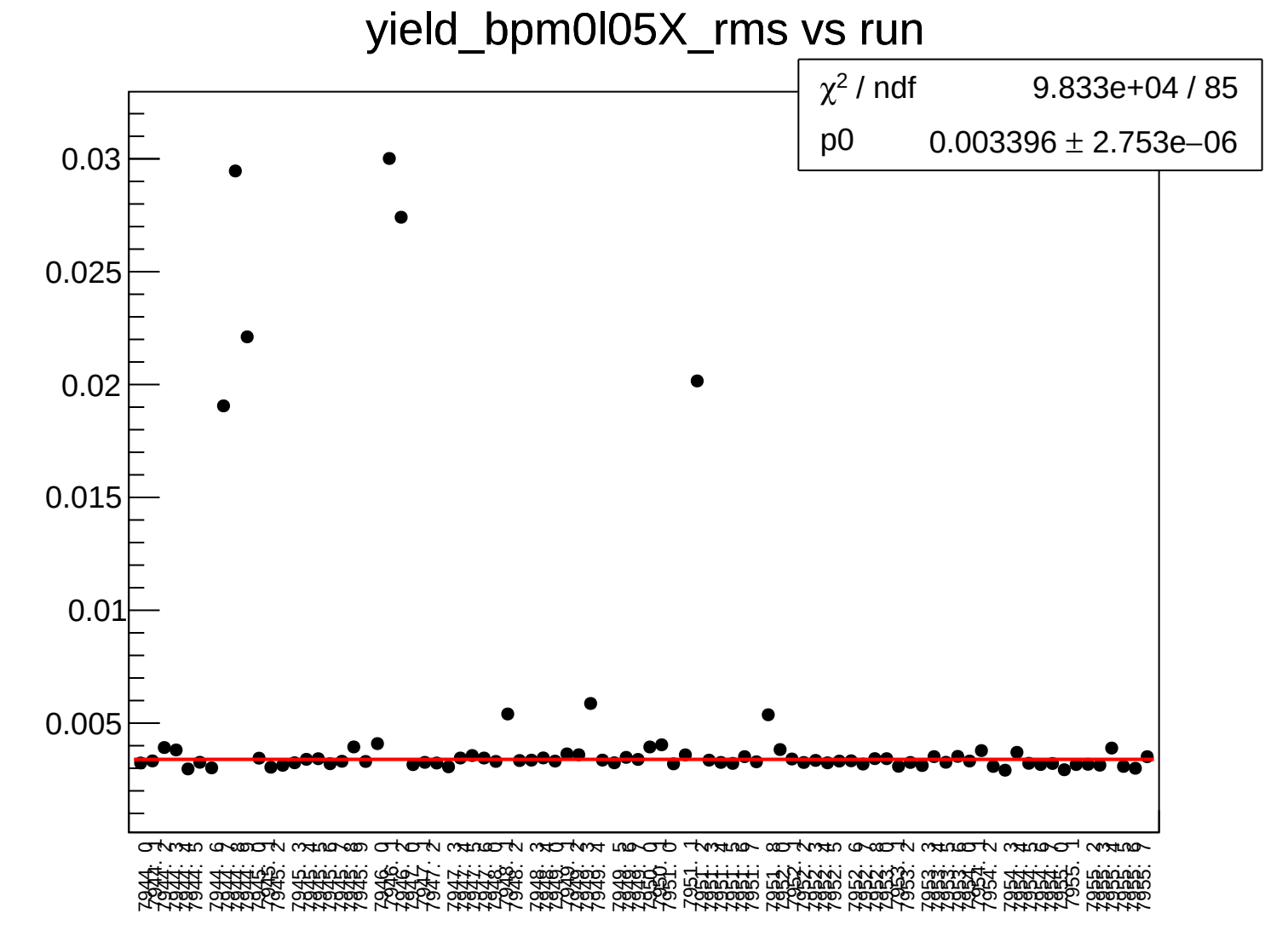

yield_bpm0l04Y_mean vs run
χ² / ndf 6.359e+06 / 85
p0 0.8238 ± 6.074e−06
0.86
0.85
0.84
0.83
0.82
0.81
0.8
pull
Entries 86
Mean −154
Std Dev 0
400
200
0
−200
−400

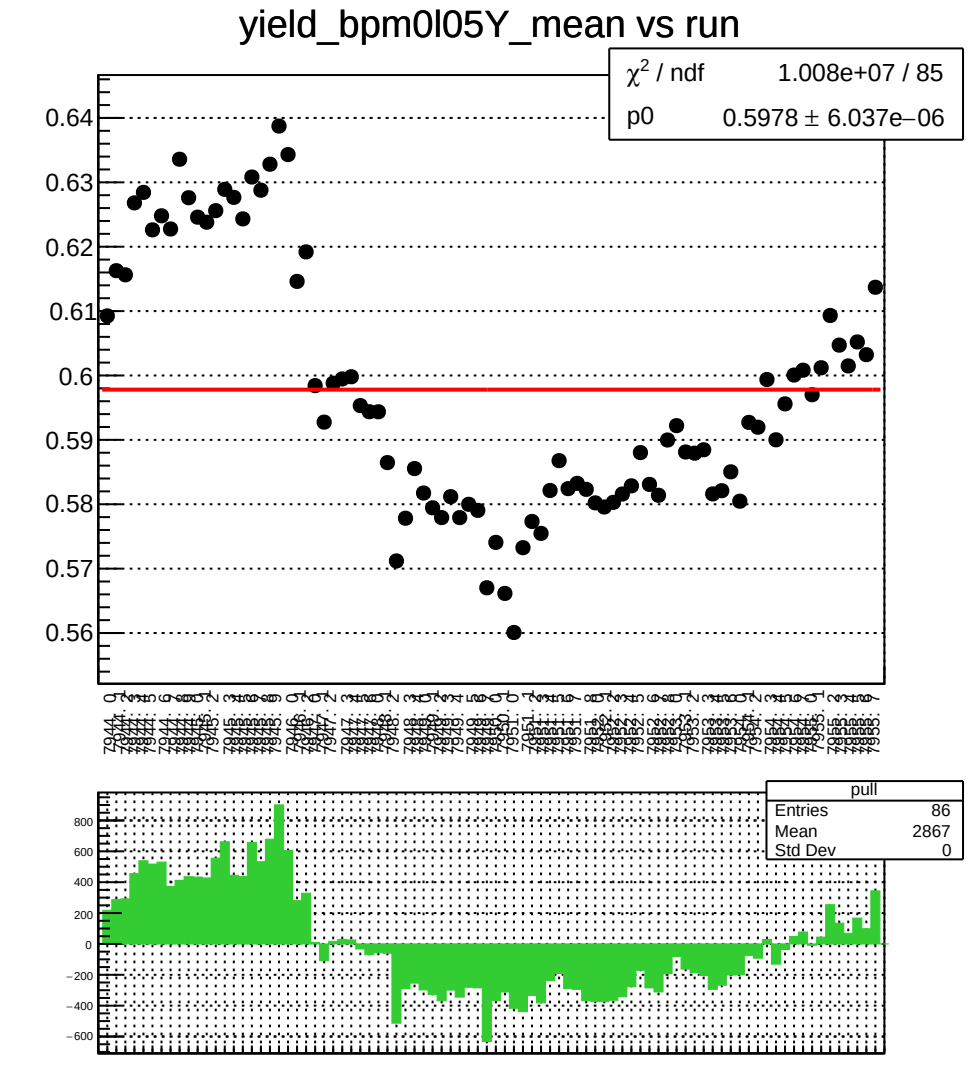

pull1D
Entries 86
Mean 7.554
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

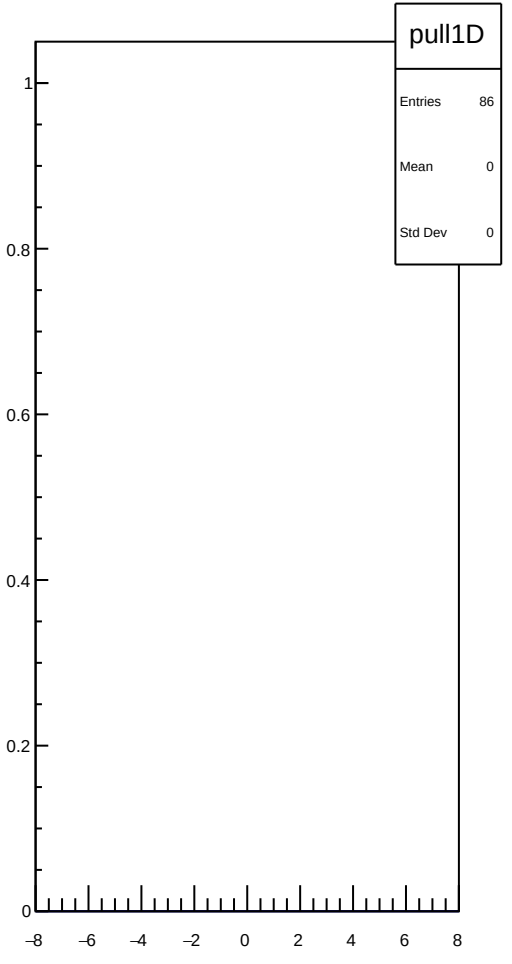

yield_bpm0l04Y_rms vs run
χ² / ndf 3.665e+04 / 85
p0 0.005403 ± 4.295e−06
0.012
0.01
0.008
0.006
0.004

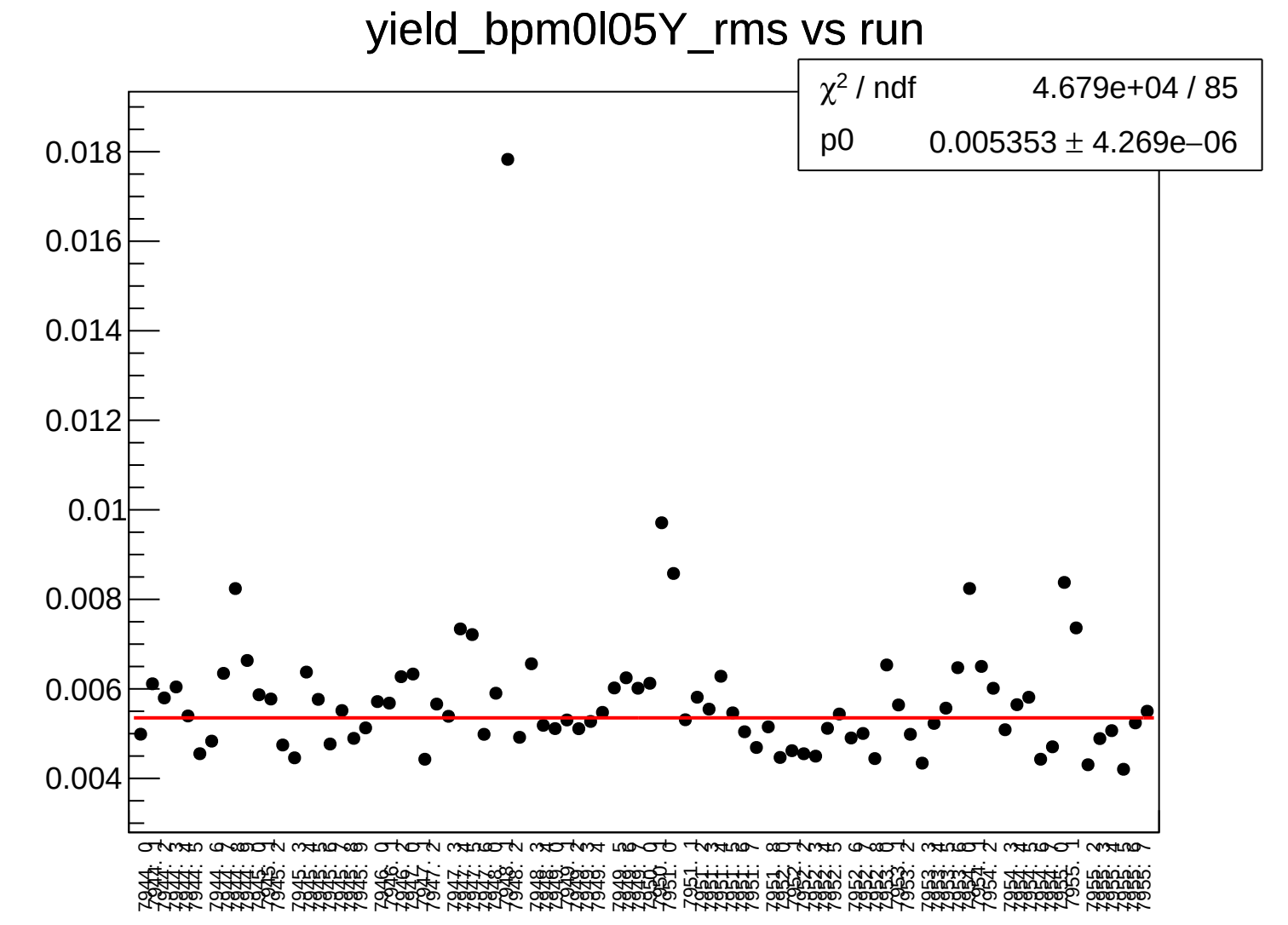

yield_bpm0l05X_mean vs run
χ² / ndf 2.614e+07 / 85
p0 0.5571 ± 3.894e−06
pull
Entries 86
Mean −2084
Std Dev 0

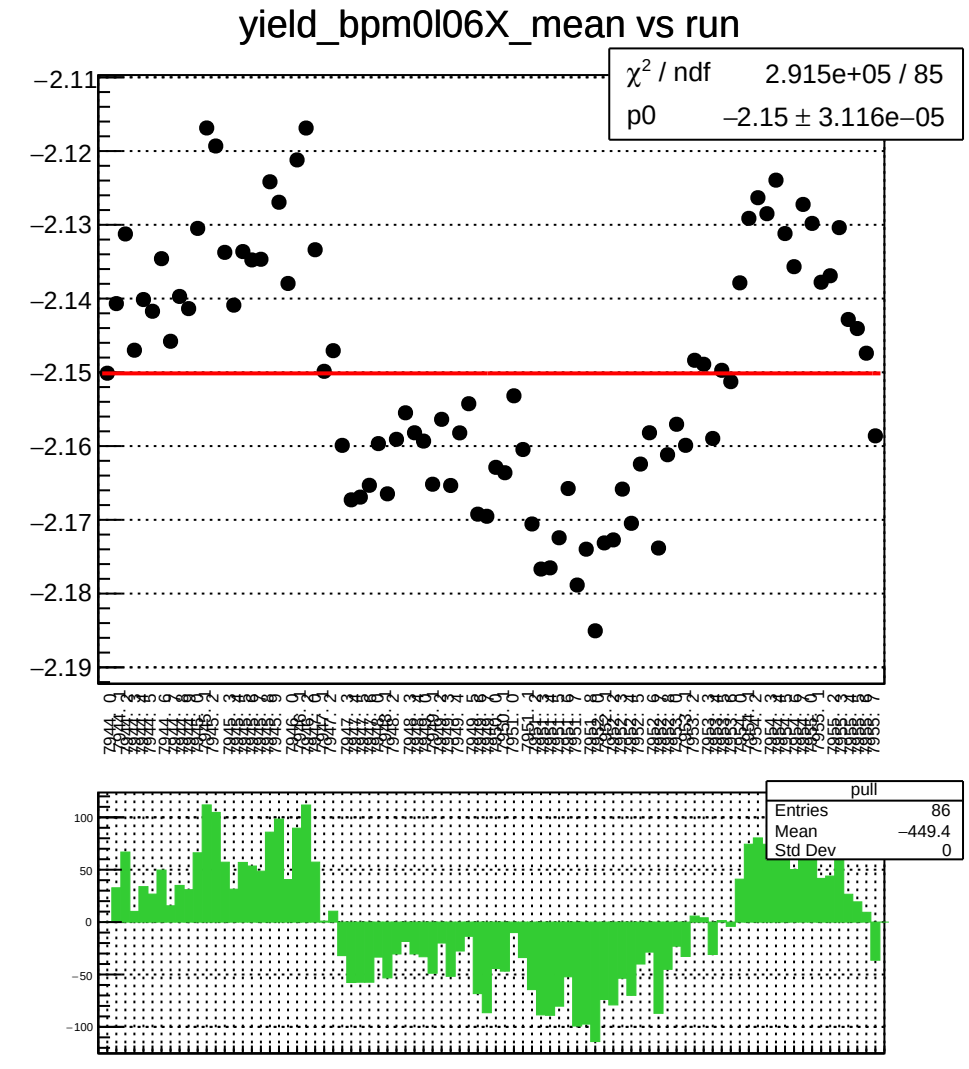

pull1D
Entries 86
Mean 0
Std Dev 0

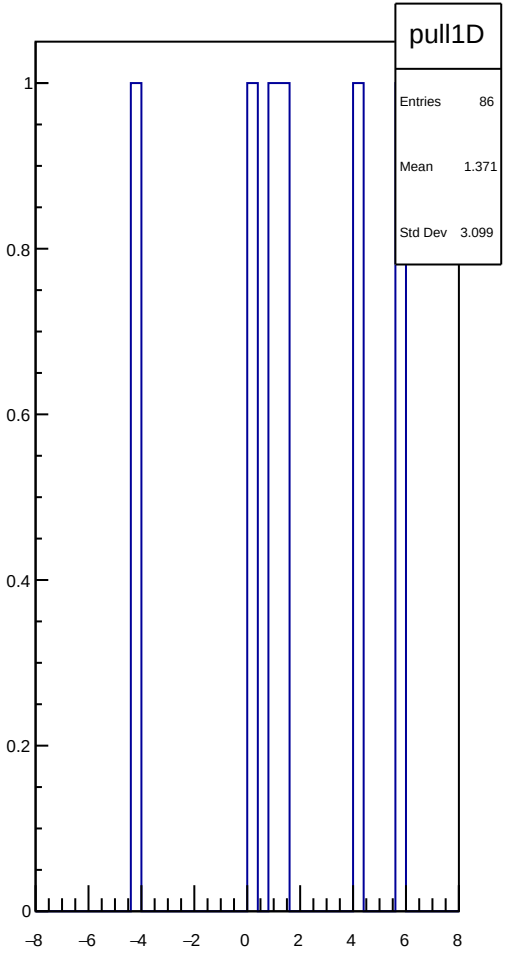

yield_bpm0l05X_rms vs run
χ^2 / ndf 9.833e+04 / 85
p0 0.003396 ± 2.753e−06
0.03
0.025
0.02
0.015
0.01
0.005

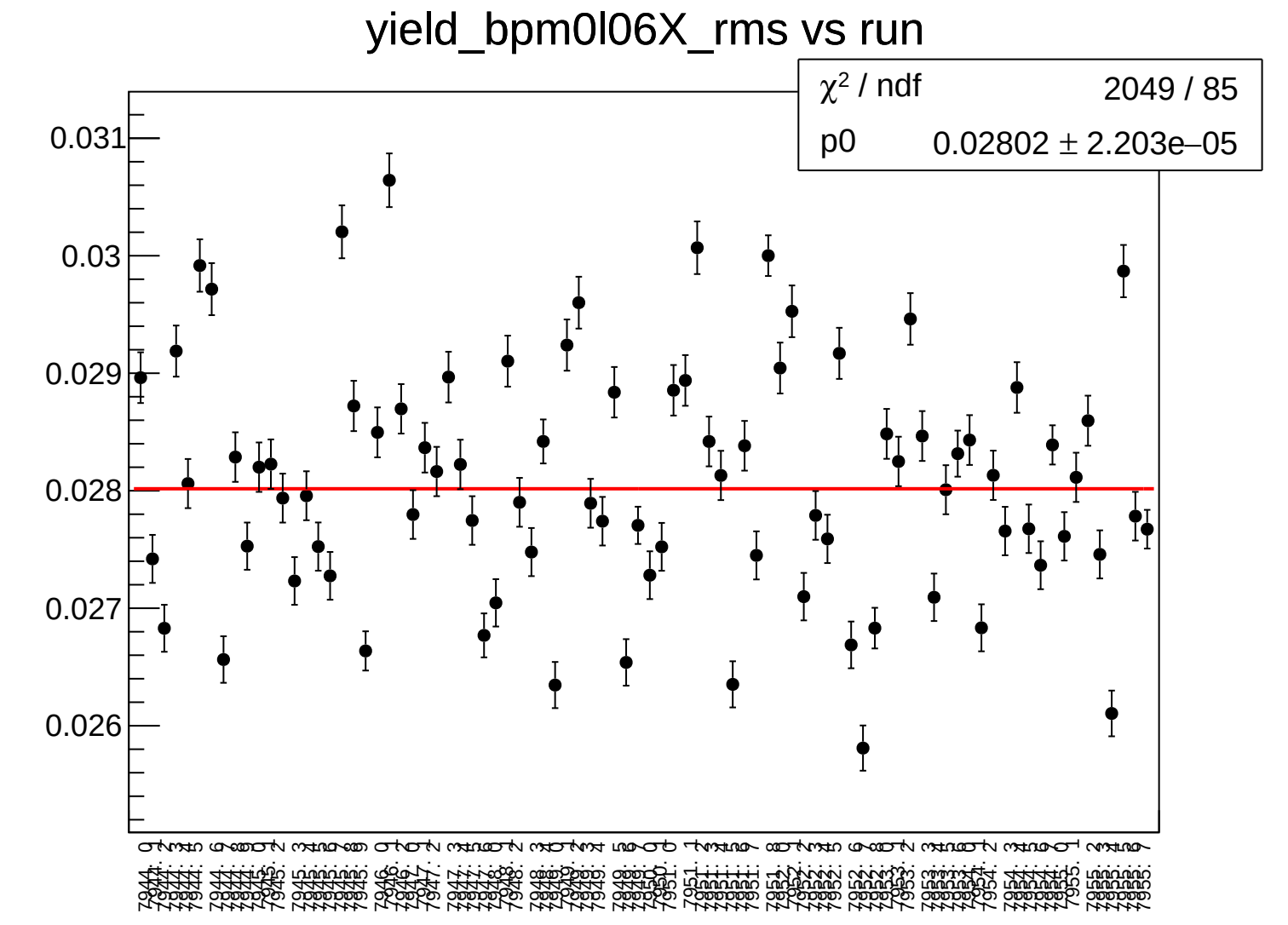

yield_bpm0l05Y_mean vs run
χ² / ndf 1.008e+07 / 85
p0 0.5978 ± 6.037e−06
pull
Entries 86
Mean 2867
Std Dev 0

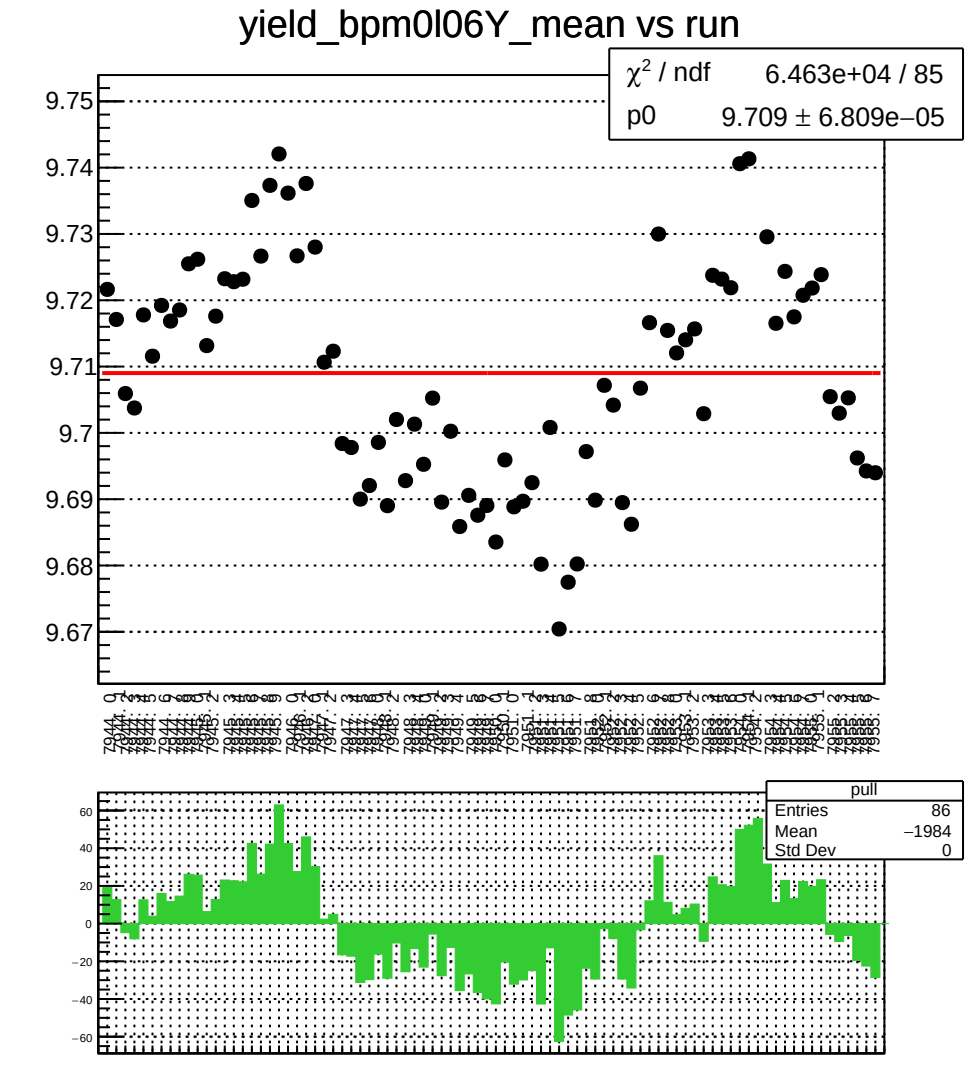

pull1D
Entries 86
Mean 0
Std Dev 0

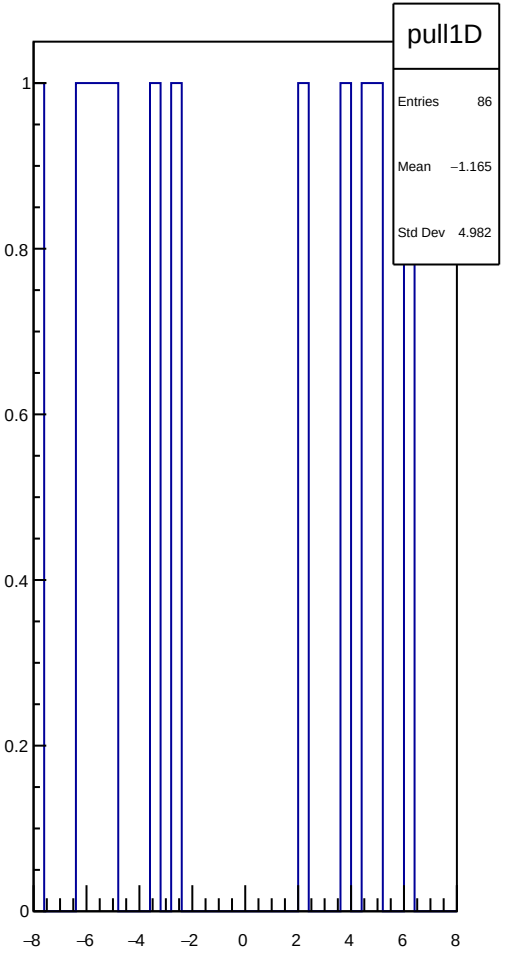

yield_bpm0l05Y_rms vs run
χ² / ndf 4.679e+04 / 85
p0 0.005353 ± 4.269e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

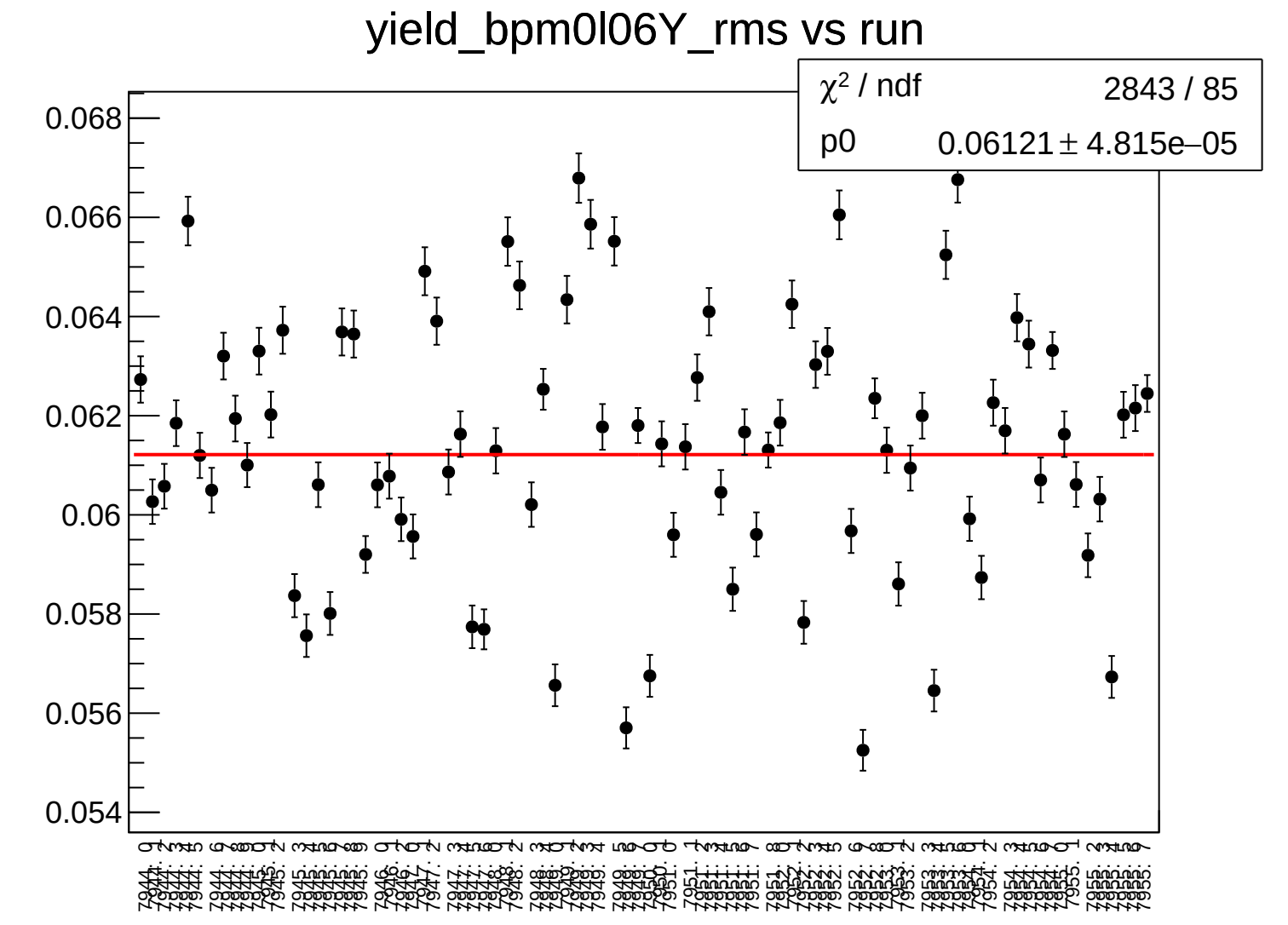

yield_bpm0l06X_mean vs run
χ² / ndf 2.915e+05 / 85
p0 −2.15 ± 3.116e−05
−2.11
−2.12
−2.13
−2.14
−2.15
−2.16
−2.17
−2.18
−2.19
pull
Entries 86
Mean −449.4
Std Dev 0
100
50
0
−50
−100

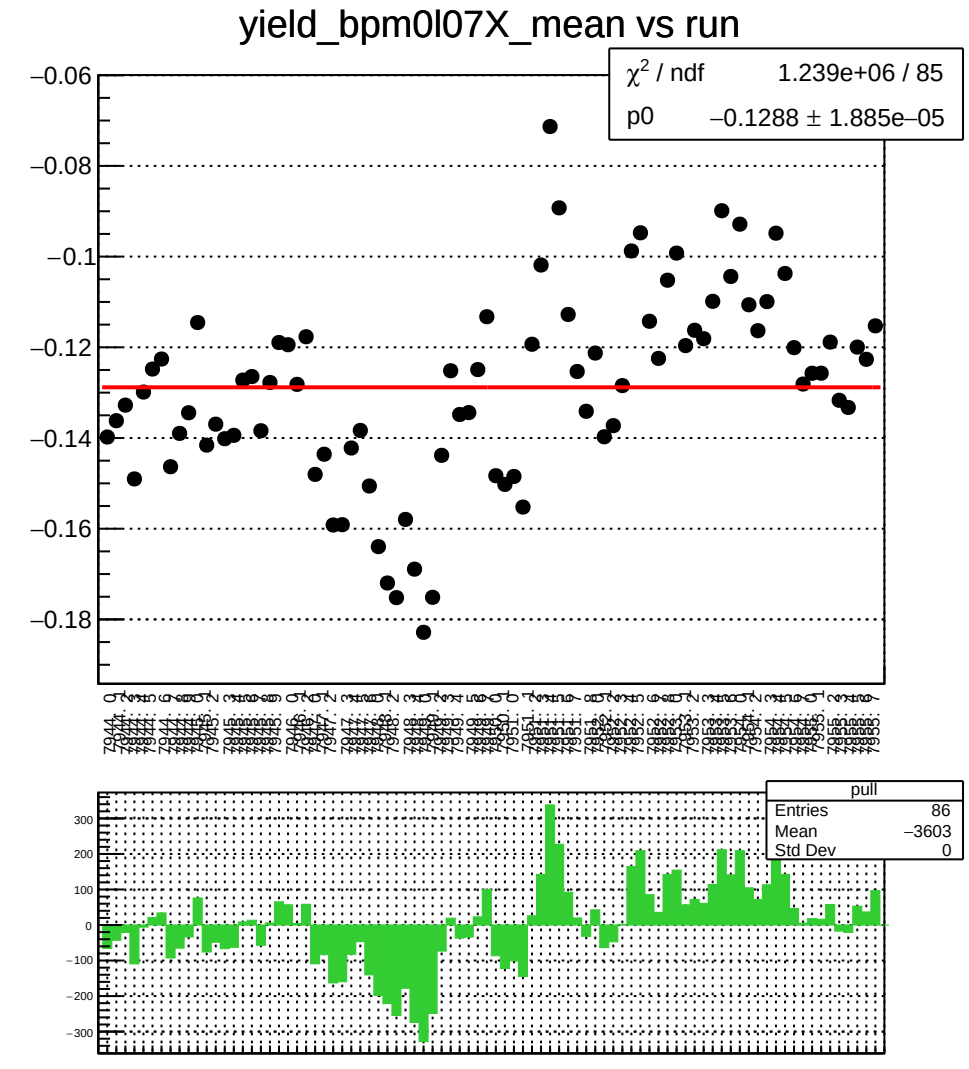

pull1D
Entries 86
Mean 1.371
Std Dev 3.099
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

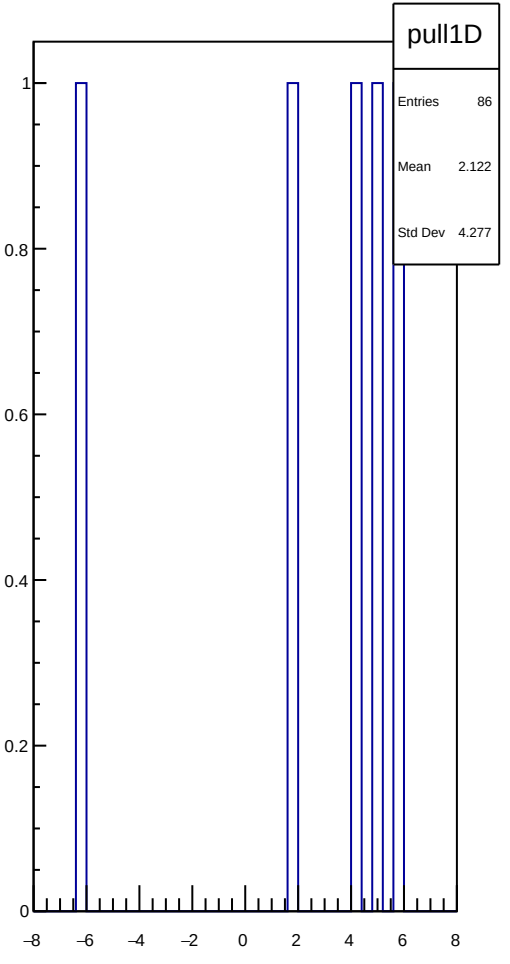

yield_bpm0l06X_rms vs run
χ² / ndf 2049 / 85
p0 0.02802 ± 2.203e–05
0.031
0.03
0.029
0.028
0.027
0.026

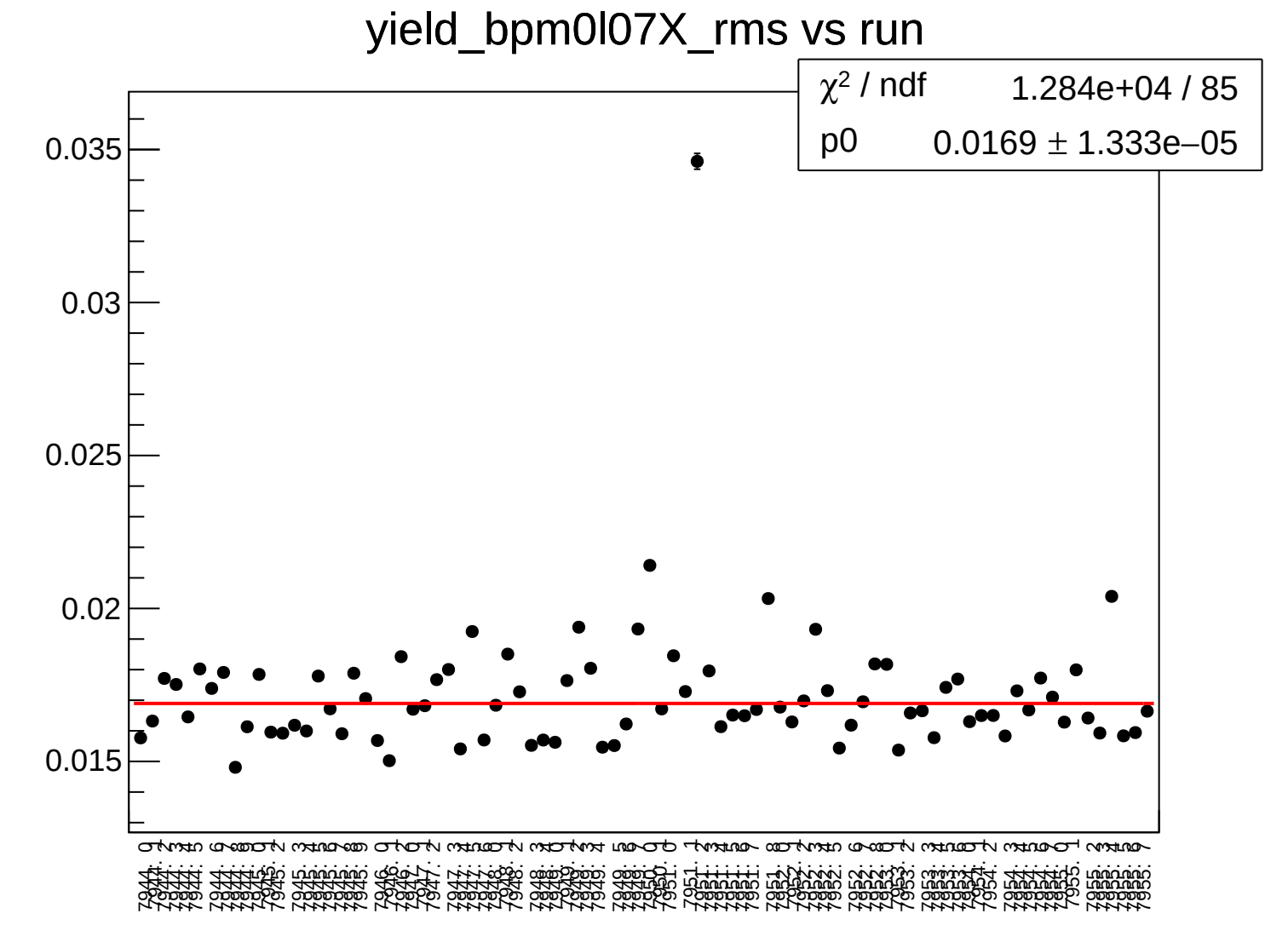

yield_bpm0l06Y_mean vs run
χ² / ndf 6.463e+04 / 85
p0 9.709 ± 6.809e−05
9.75
9.74
9.73
9.72
9.71
9.7
9.69
9.68
9.67
pull
Entries 86
Mean −1984
Std Dev 0
60
40
20
0
−20
−40
−60

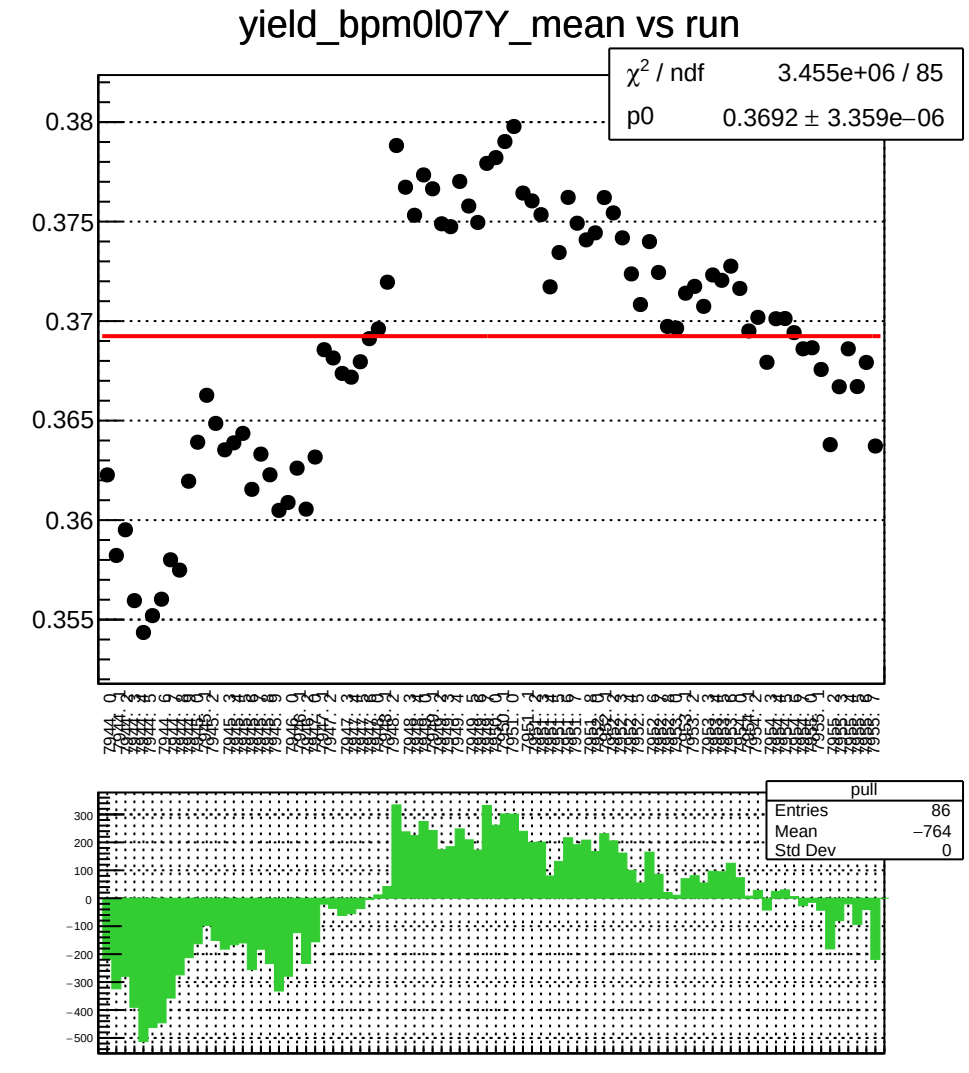

pull1D
Entries 86
Mean −1.165
Std Dev 4.982
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

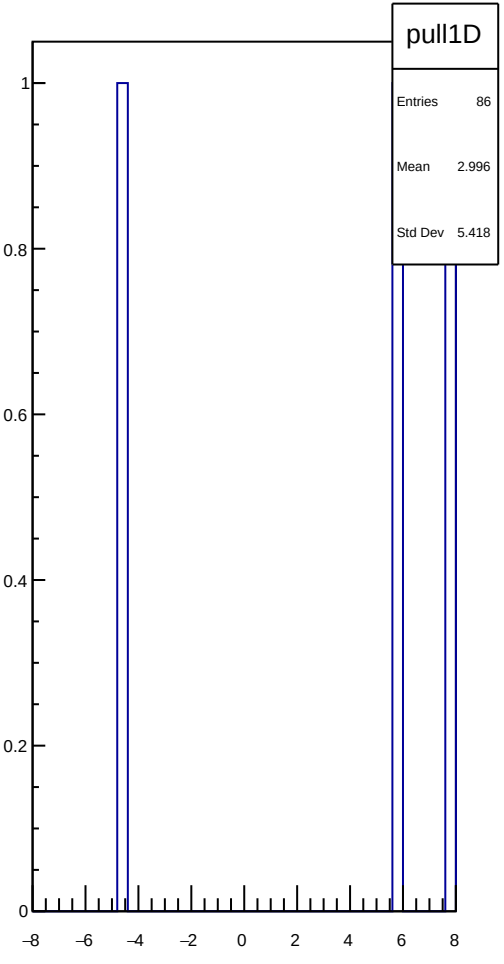

yield_bpm0l06Y_rms vs run
χ² / ndf 2843 / 85
p0 0.06121 ± 4.815e−05
0.068
0.066
0.064
0.062
0.06
0.058
0.056
0.054

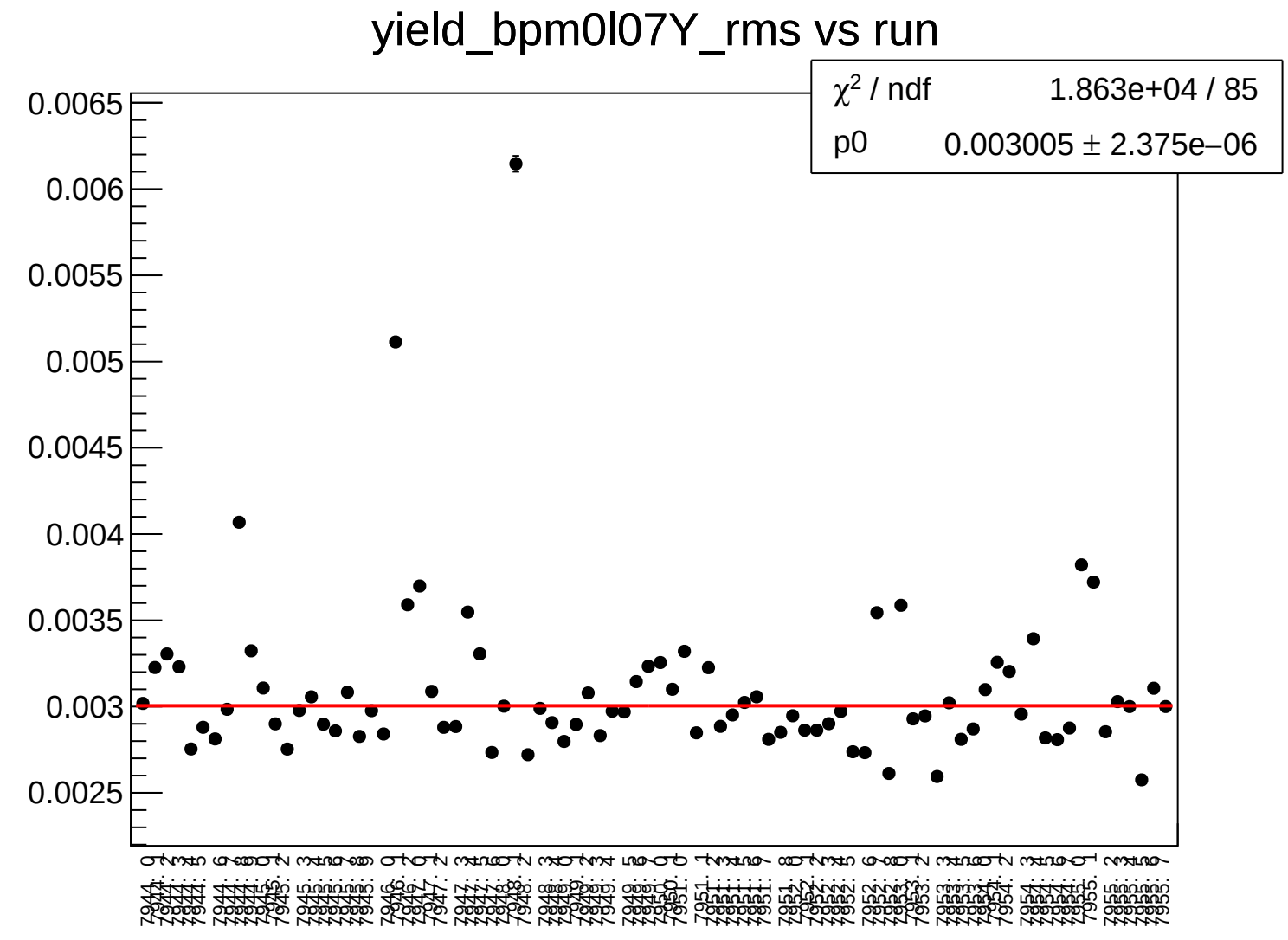

yield_bpm0l07X_mean vs run
χ² / ndf 1.239e+06 / 85
p0 −0.1288 ± 1.885e−05
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 86
Mean −3603
Std Dev 0
300
200
100
0
−100
−200
−300

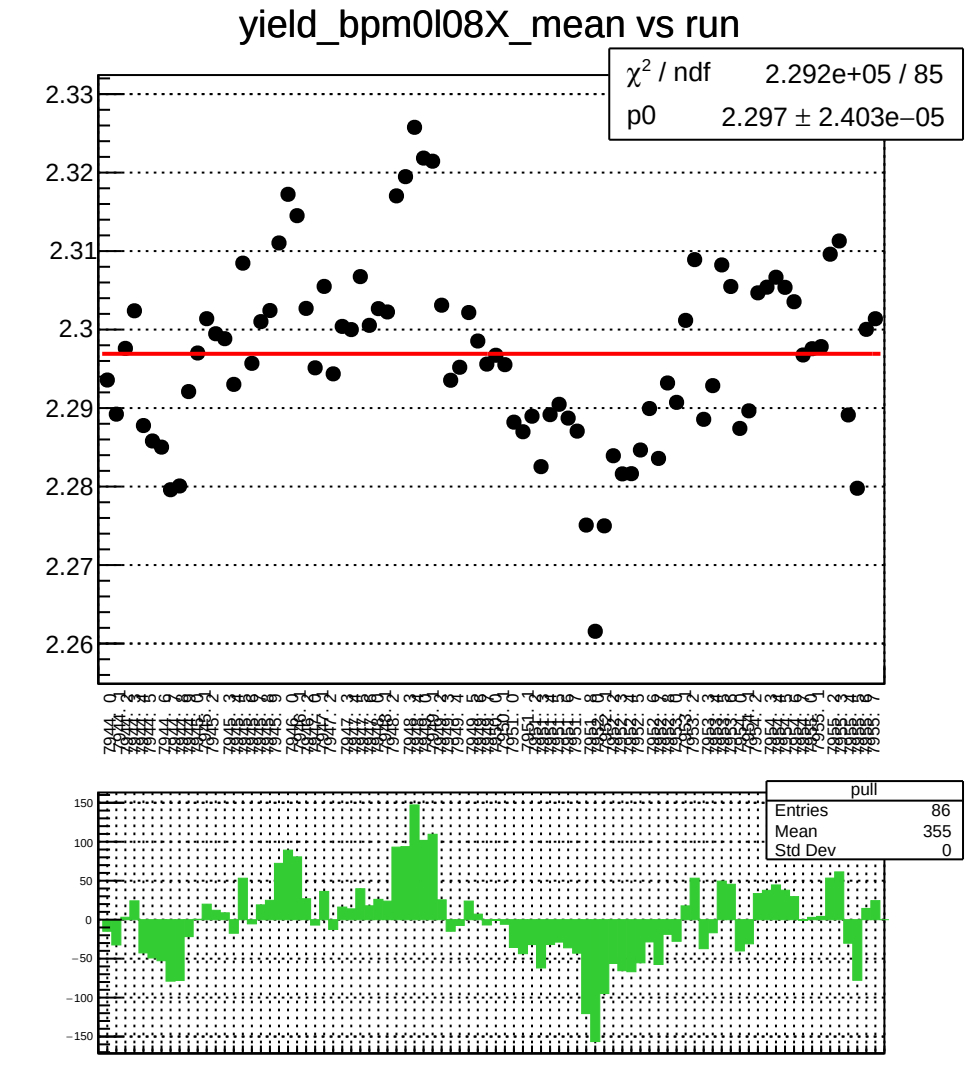

pull1D
Entries 86
Mean 2.122
Std Dev 4.277
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

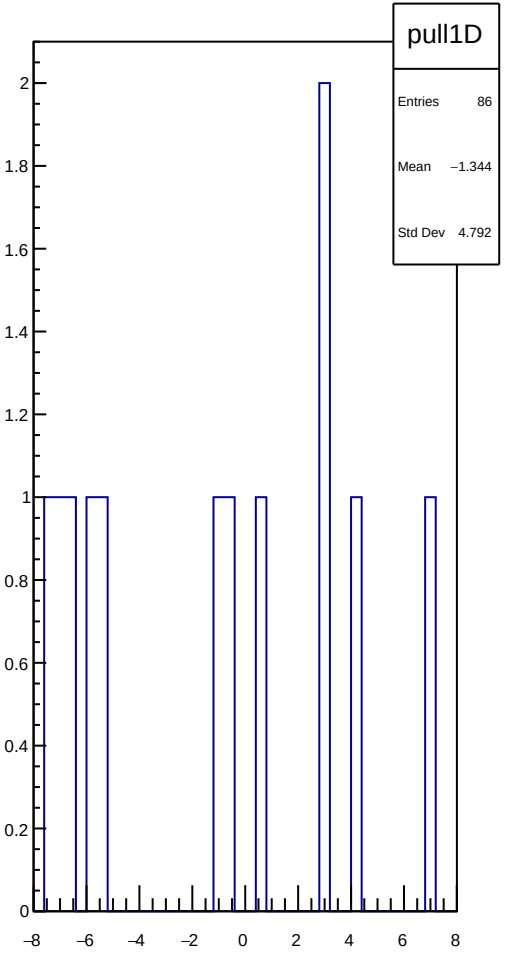

yield_bpm0l07X_rms vs run
χ² / ndf 1.284e+04 / 85
p0 0.0169 ± 1.333e−05
0.035
0.03
0.025
0.02
0.015

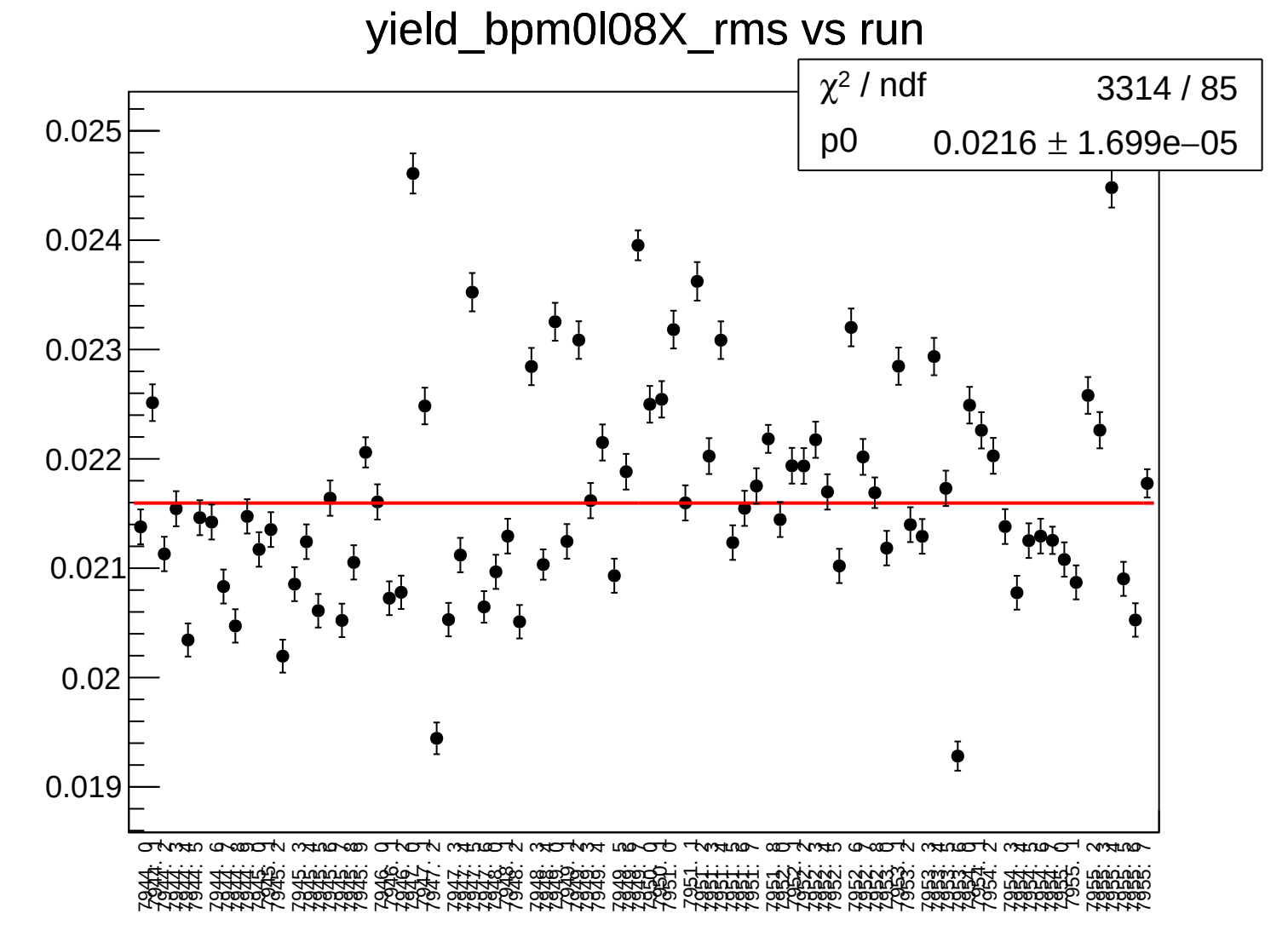

yield_bpm0l07Y_mean vs run
χ² / ndf 3.455e+06 / 85
p0 0.3692 ± 3.359e−06
0.38
0.375
0.37
0.365
0.36
0.355
pull
Entries 86
Mean −764
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

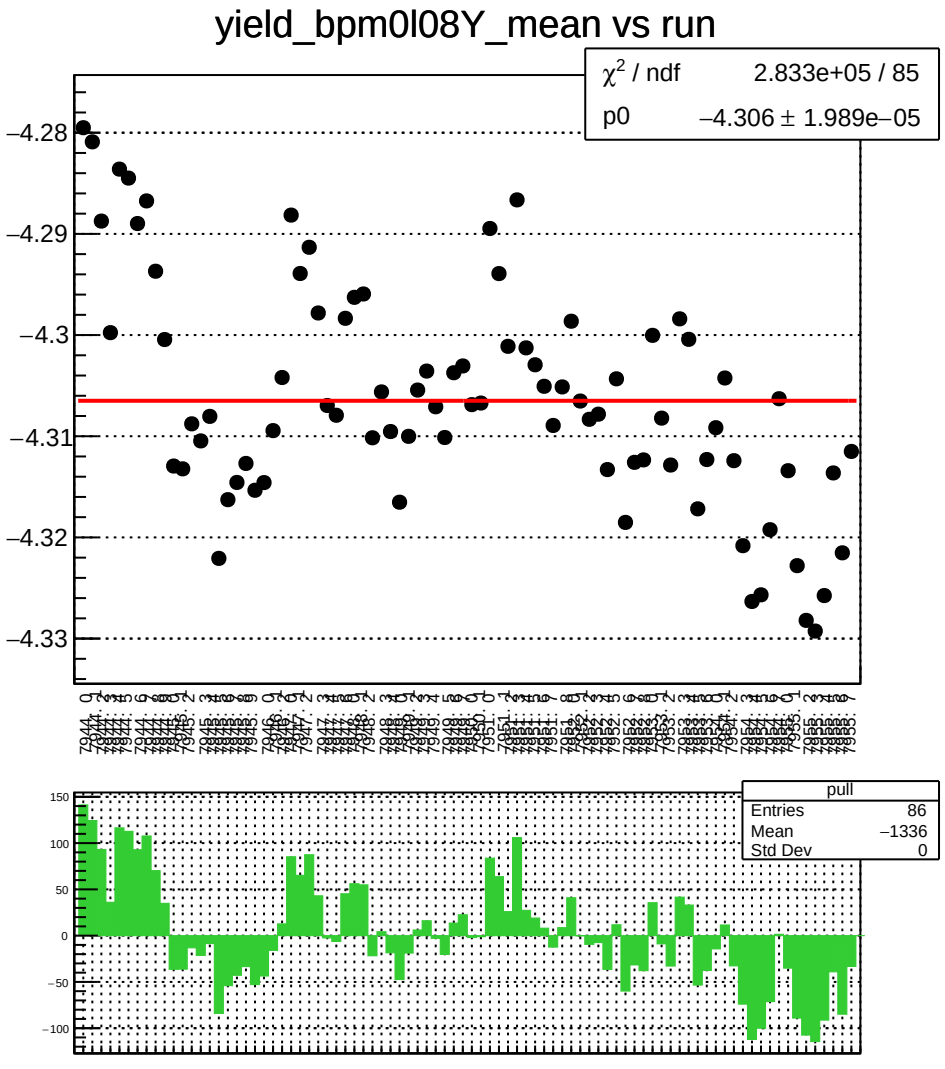

pull1D
Entries 86
Mean 2.996
Std Dev 5.418
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

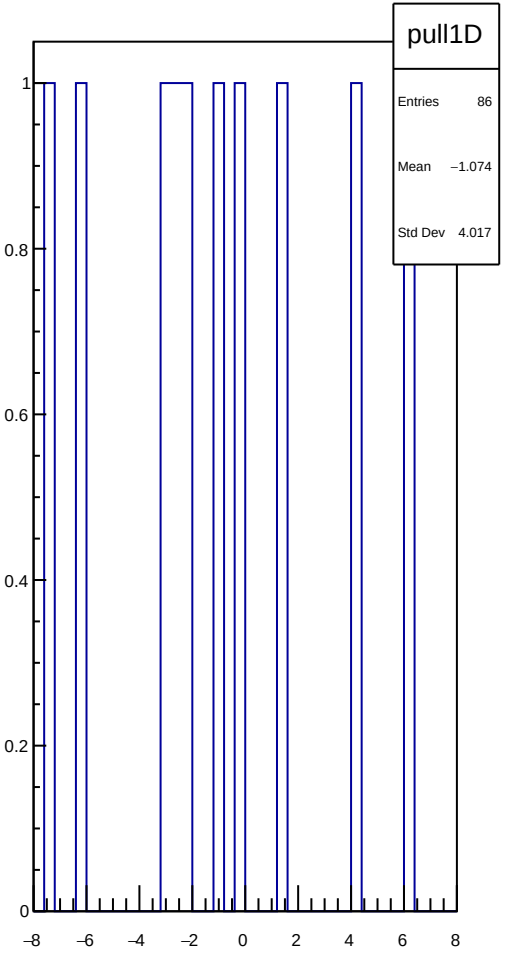

yield_bpm0l07Y_rms vs run
χ² / ndf 1.863e+04 / 85
p0 0.003005 ± 2.375e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

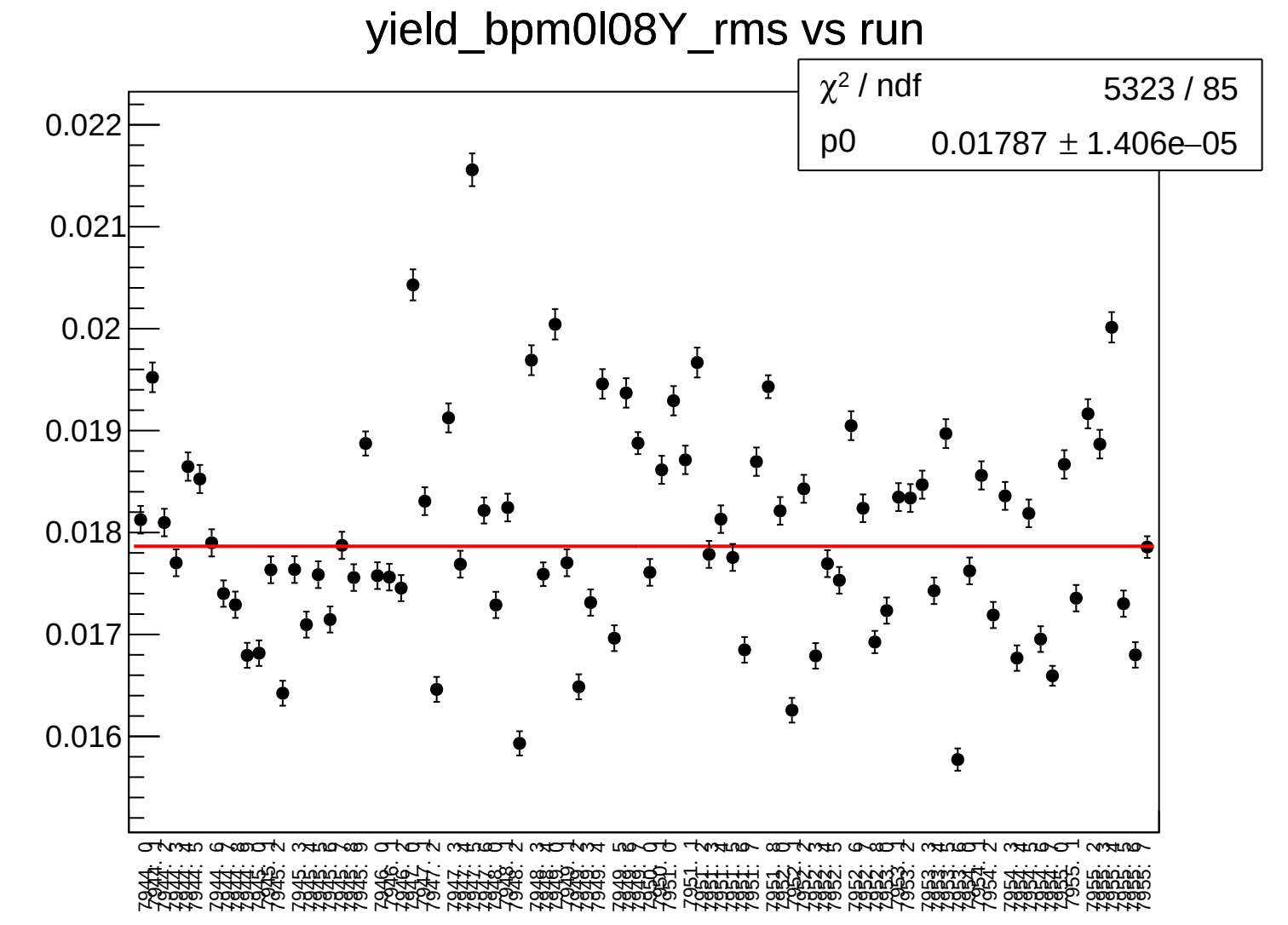

yield_bpm0l08X_mean vs run
χ² / ndf 2.292e+05 / 85
p0 2.297 ± 2.403e−05
pull
Entries 86
Mean 355
Std Dev 0

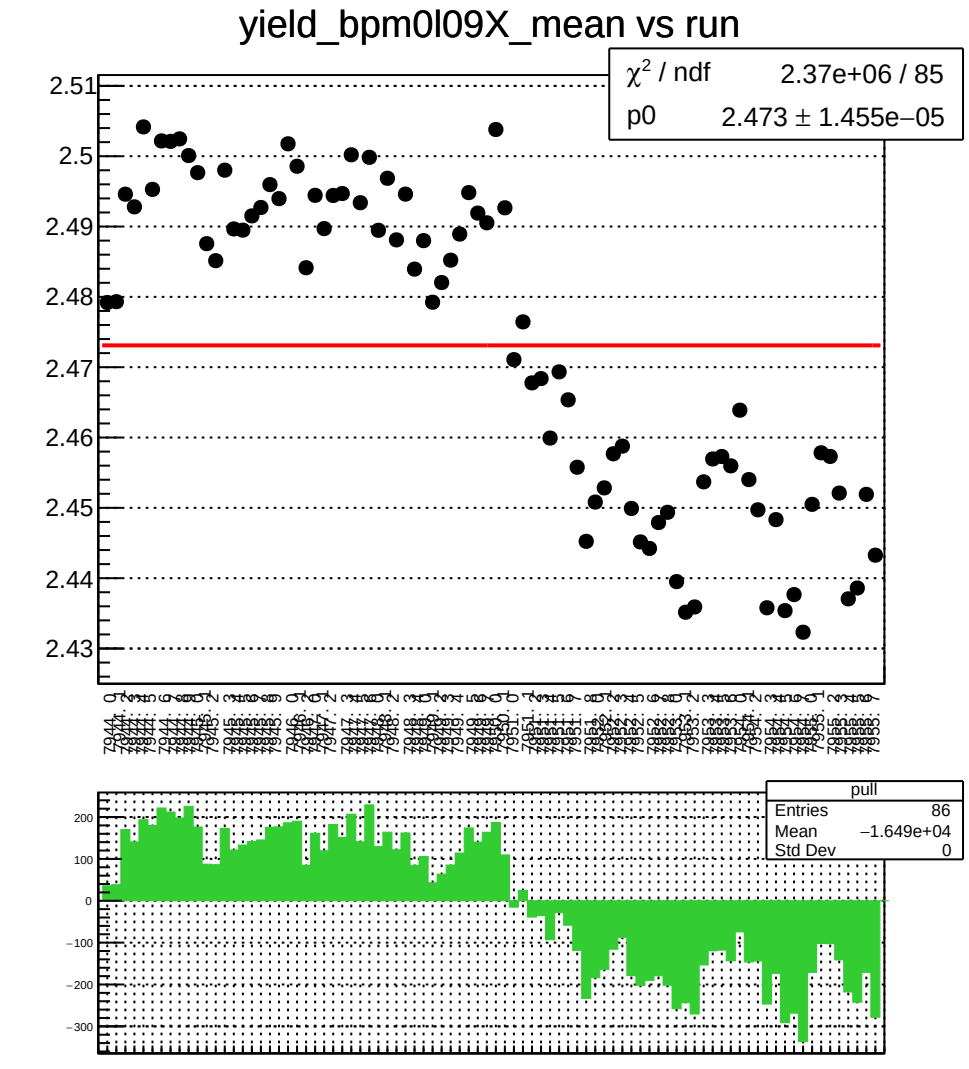

pull1D
Entries 86
Mean −1.344
Std Dev 4.792

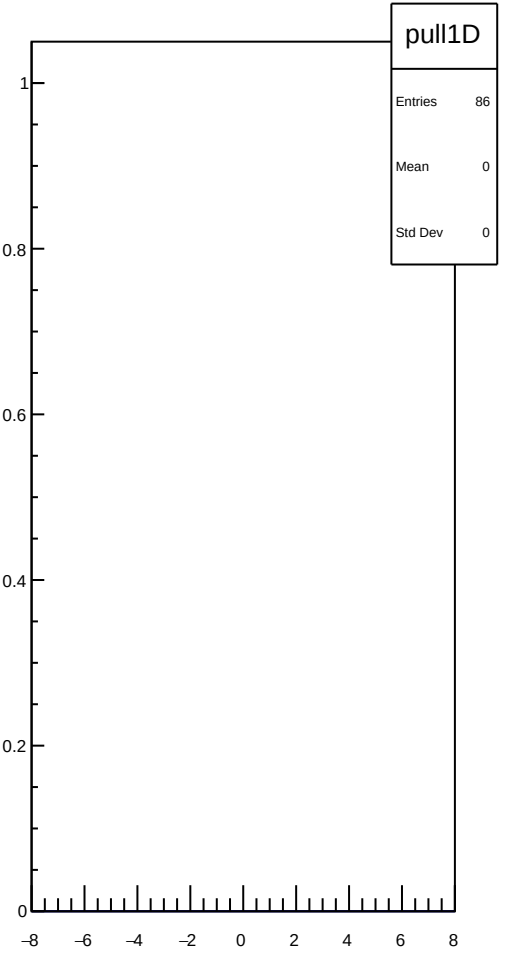

yield_bpm0l08X_rms vs run
χ² / ndf 3314 / 85
p0 0.0216 ± 1.699e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019

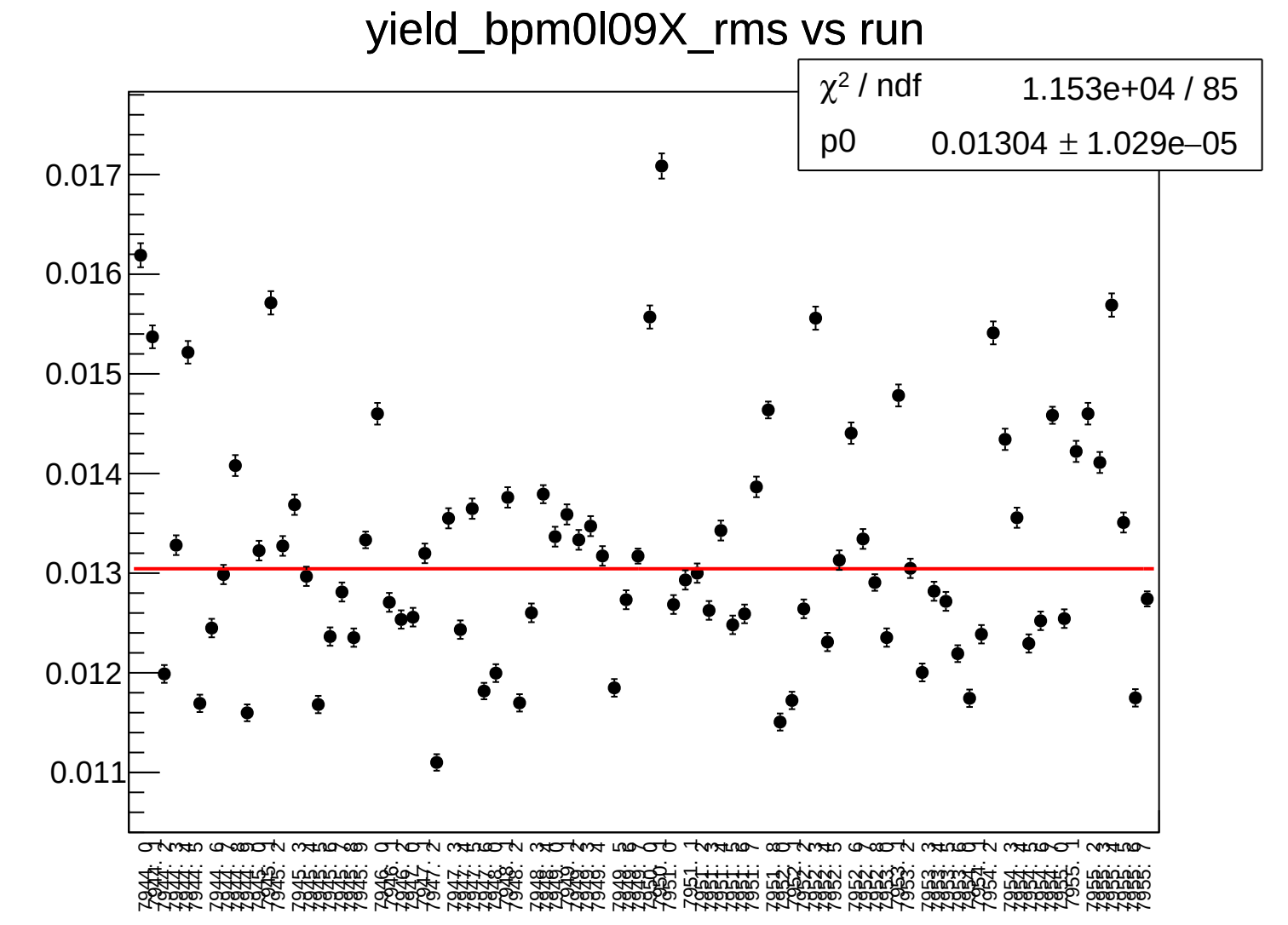

yield_bpm0l08Y_mean vs run
χ² / ndf 2.833e+05 / 85
p0 −4.306 ± 1.989e−05
−4.28
−4.29
−4.3
−4.31
−4.32
−4.33
pull
Entries 86
Mean −1336
Std Dev 0
150
100
50
0
−50
−100

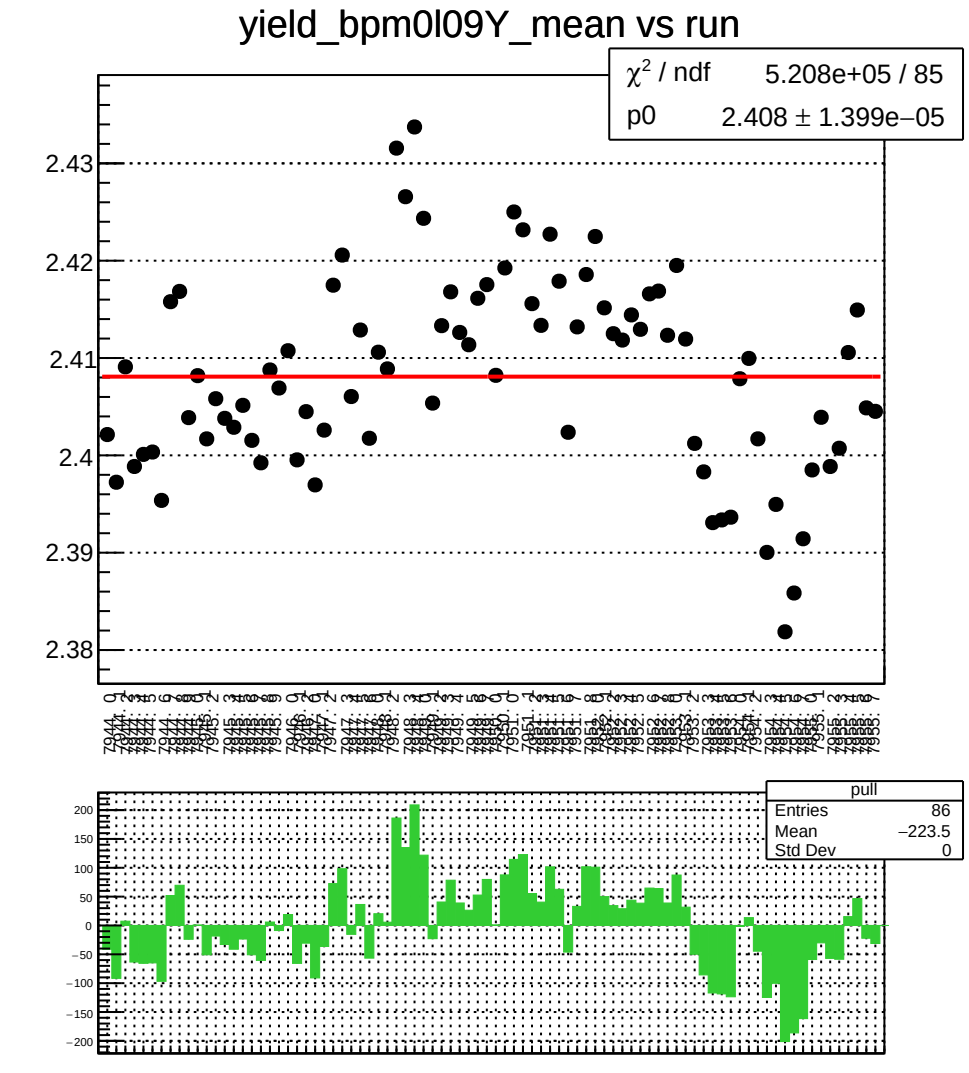

pull1D
Entries 86
Mean −1.074
Std Dev 4.017
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

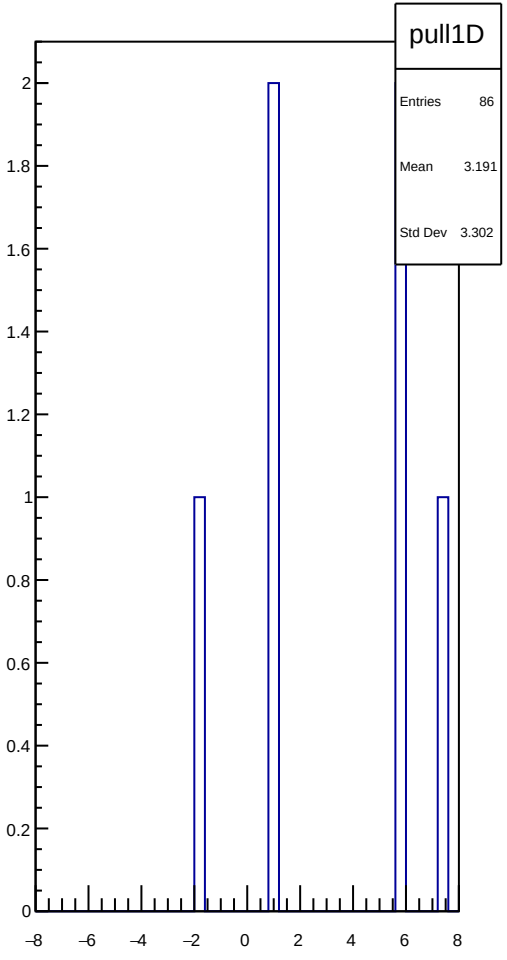

yield_bpm0l08Y_rms vs run
χ² / ndf 5323 / 85
p0 0.01787 ± 1.406e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016

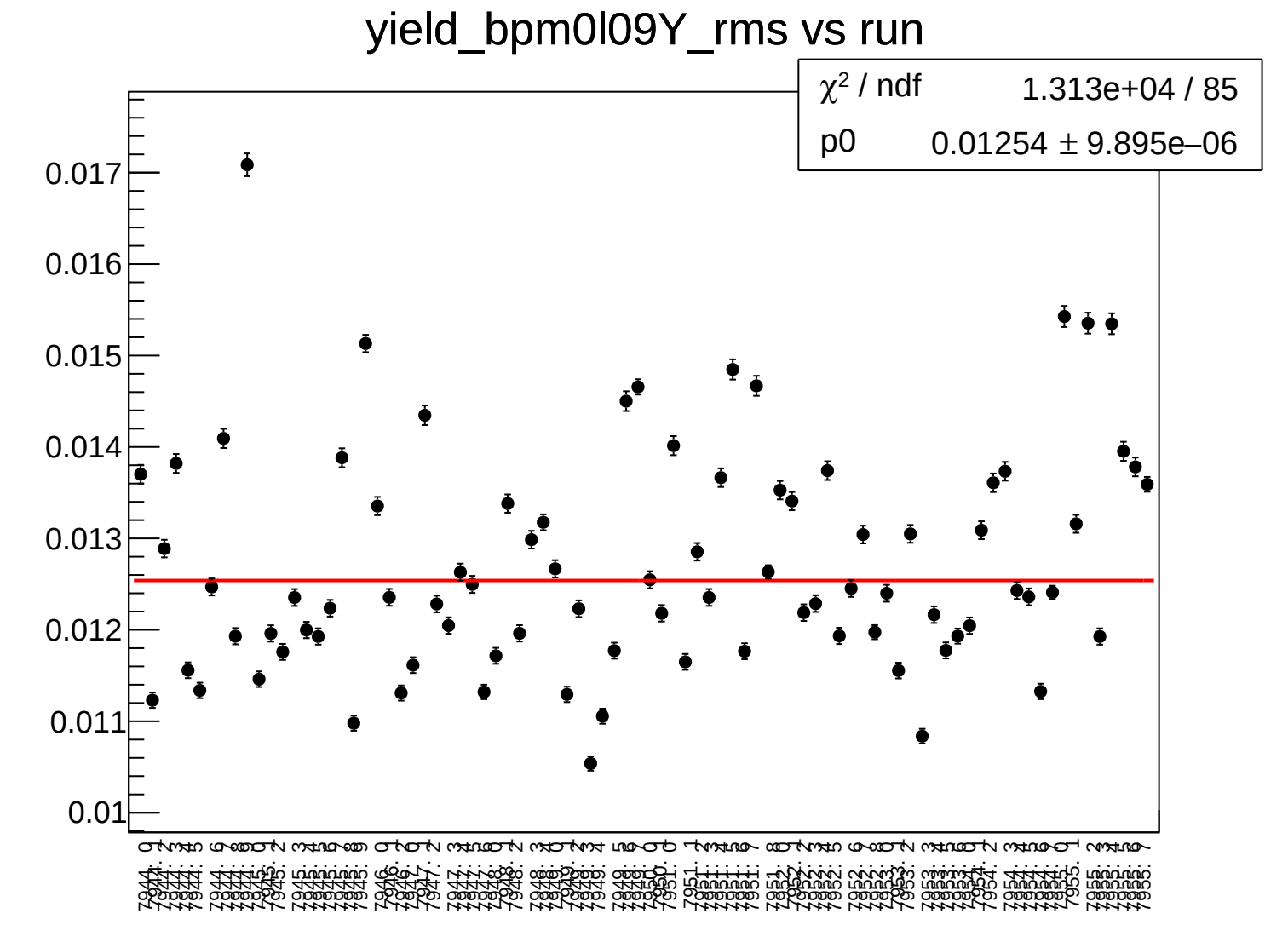

yield_bpm0l09X_mean vs run
χ² / ndf 2.37e+06 / 85
p0 2.473 ± 1.455e−05
2.51
2.5
2.49
2.48
2.47
2.46
2.45
2.44
2.43
pull
Entries 86
Mean −1.649e+04
Std Dev 0
200
100
0
−100
−200
−300

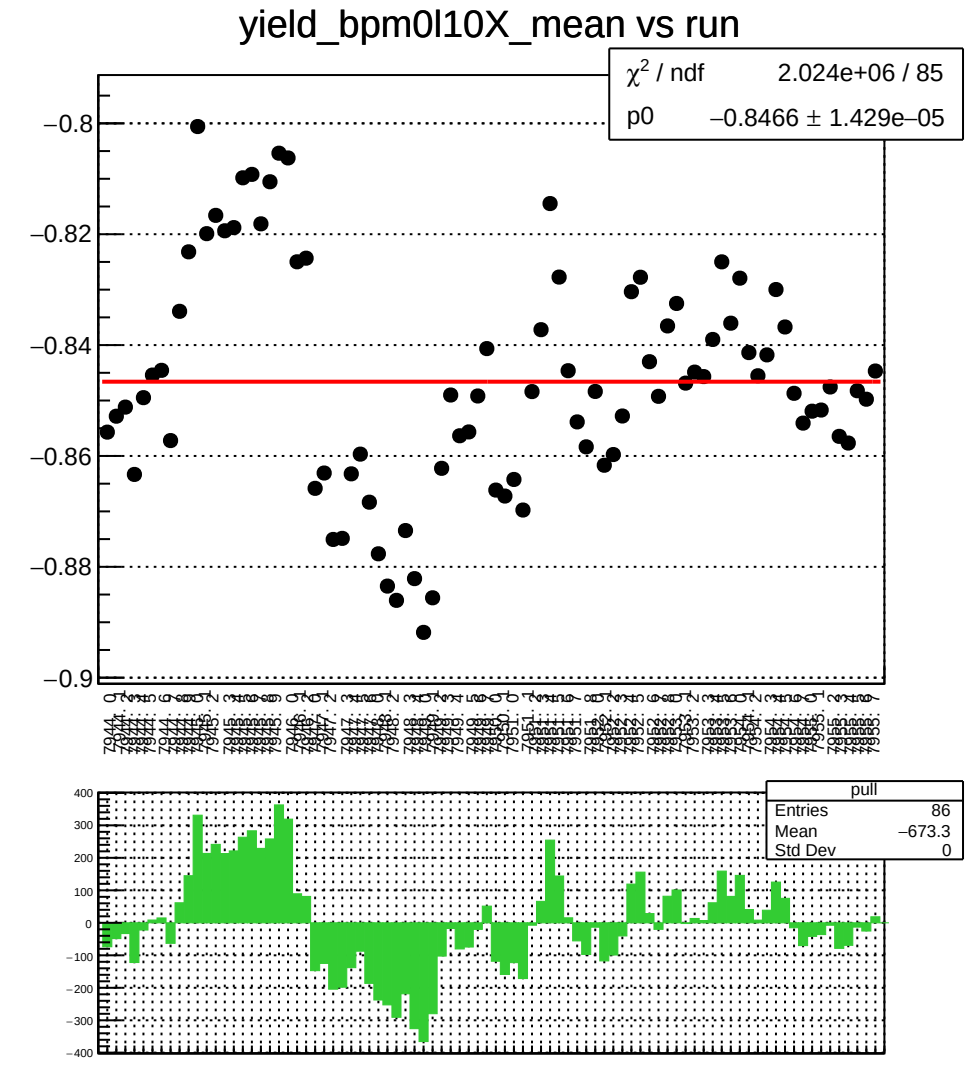

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

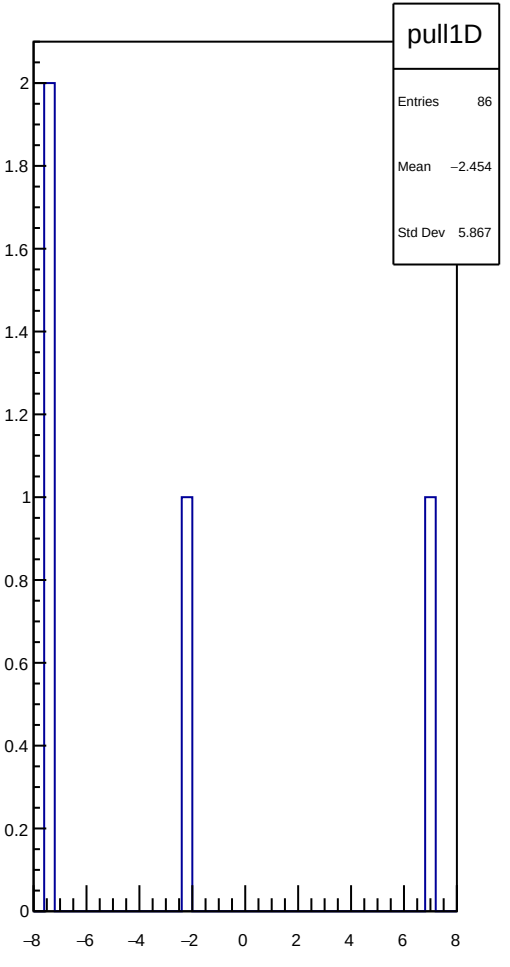

yield_bpm0l09X_rms vs run
χ² / ndf 1.153e+04 / 85
p0 0.01304 ± 1.029e–05
0.017
0.016
0.015
0.014
0.013
0.012
0.011

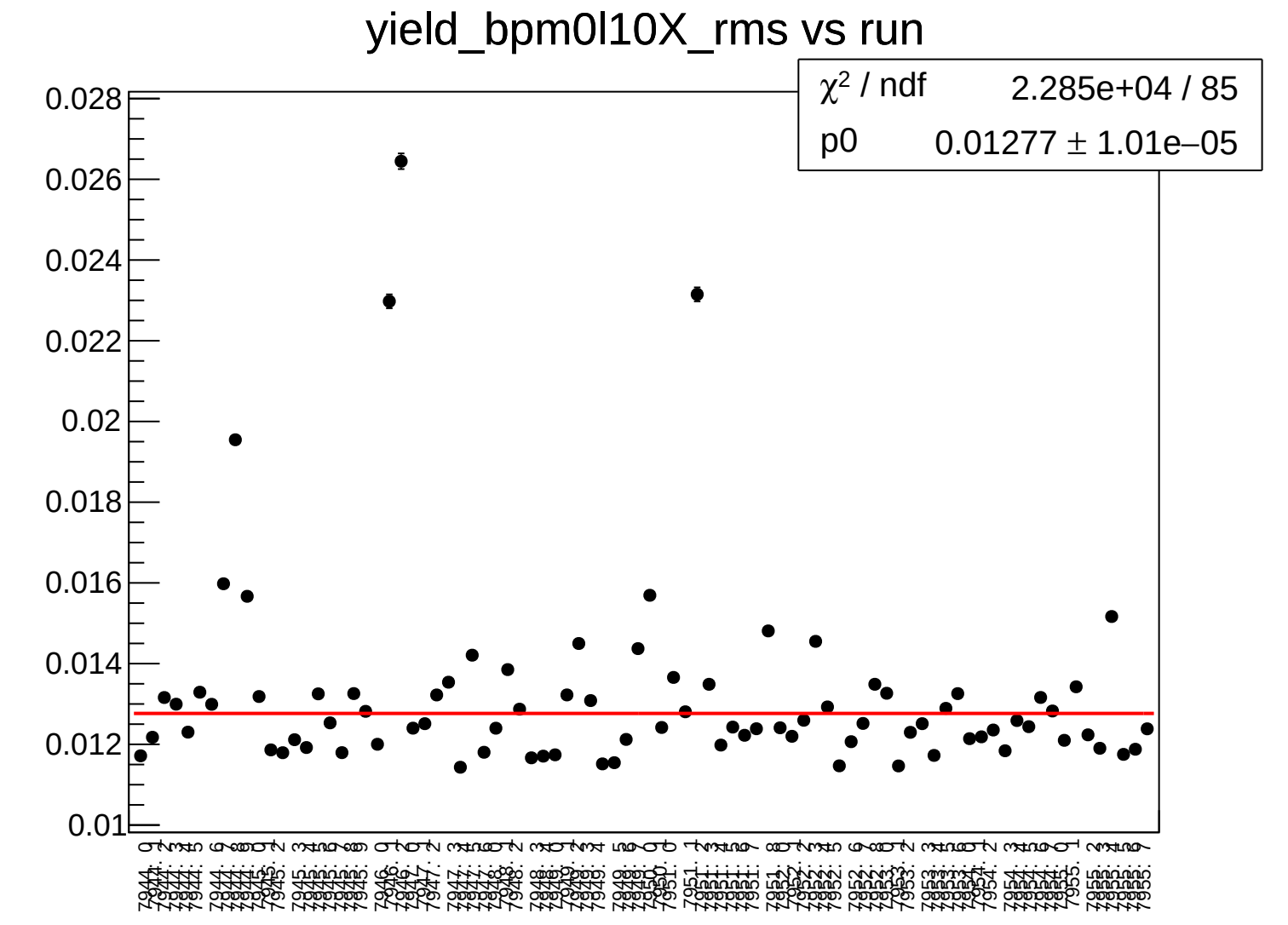

yield_bpm0l09Y_mean vs run
χ² / ndf 5.208e+05 / 85
p0 2.408 ± 1.399e−05
2.43
2.42
2.41
2.4
2.39
2.38
pull
Entries 86
Mean −223.5
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

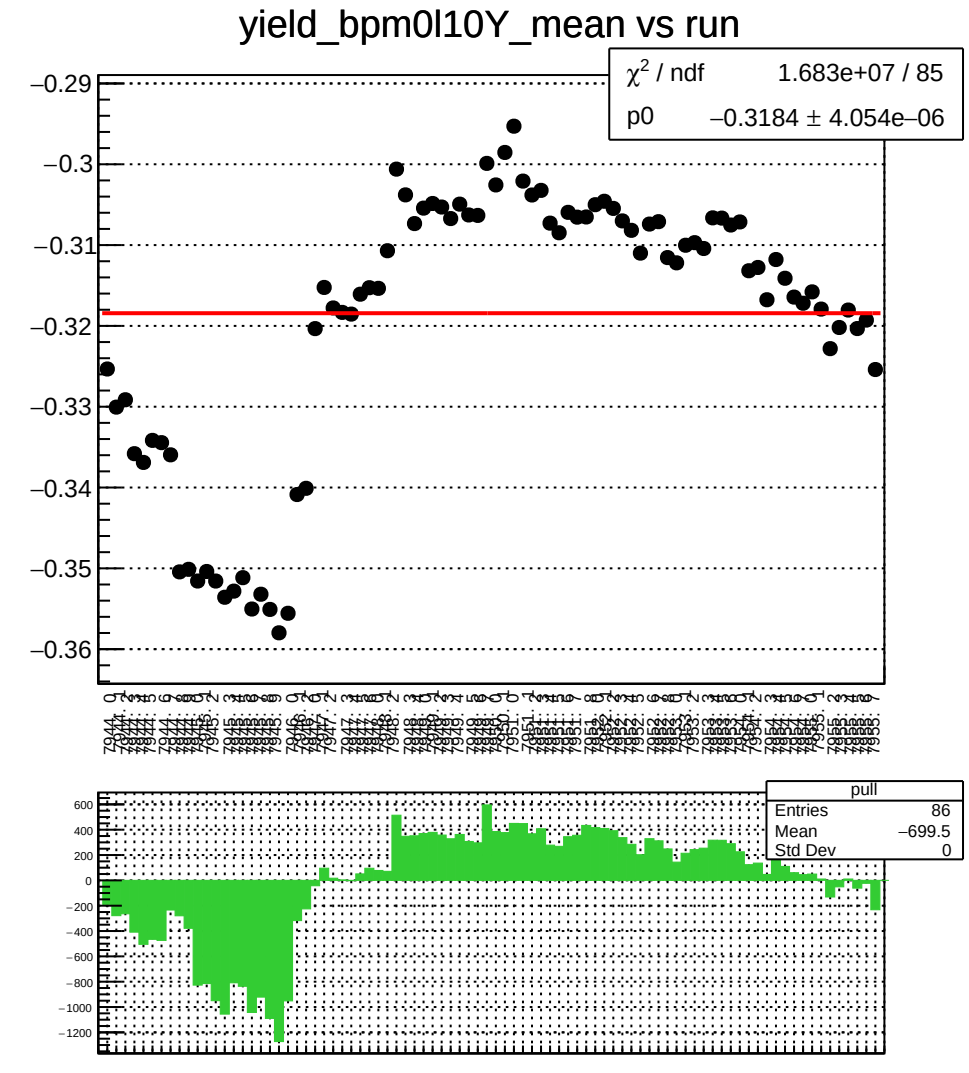

pull1D
Entries 86
Mean 3.191
Std Dev 3.302
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

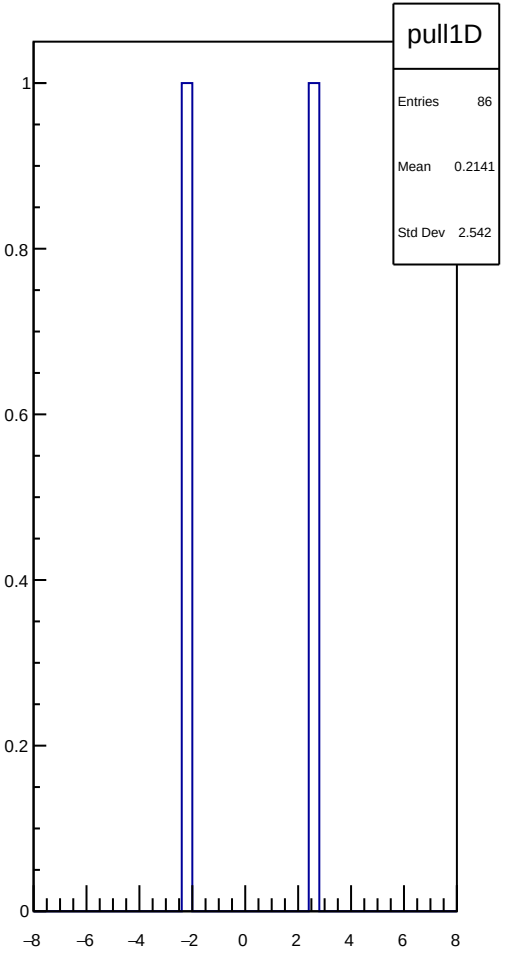

yield_bpm0l09Y_rms vs run
χ² / ndf 1.313e+04 / 85
p0 0.01254 ± 9.895e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

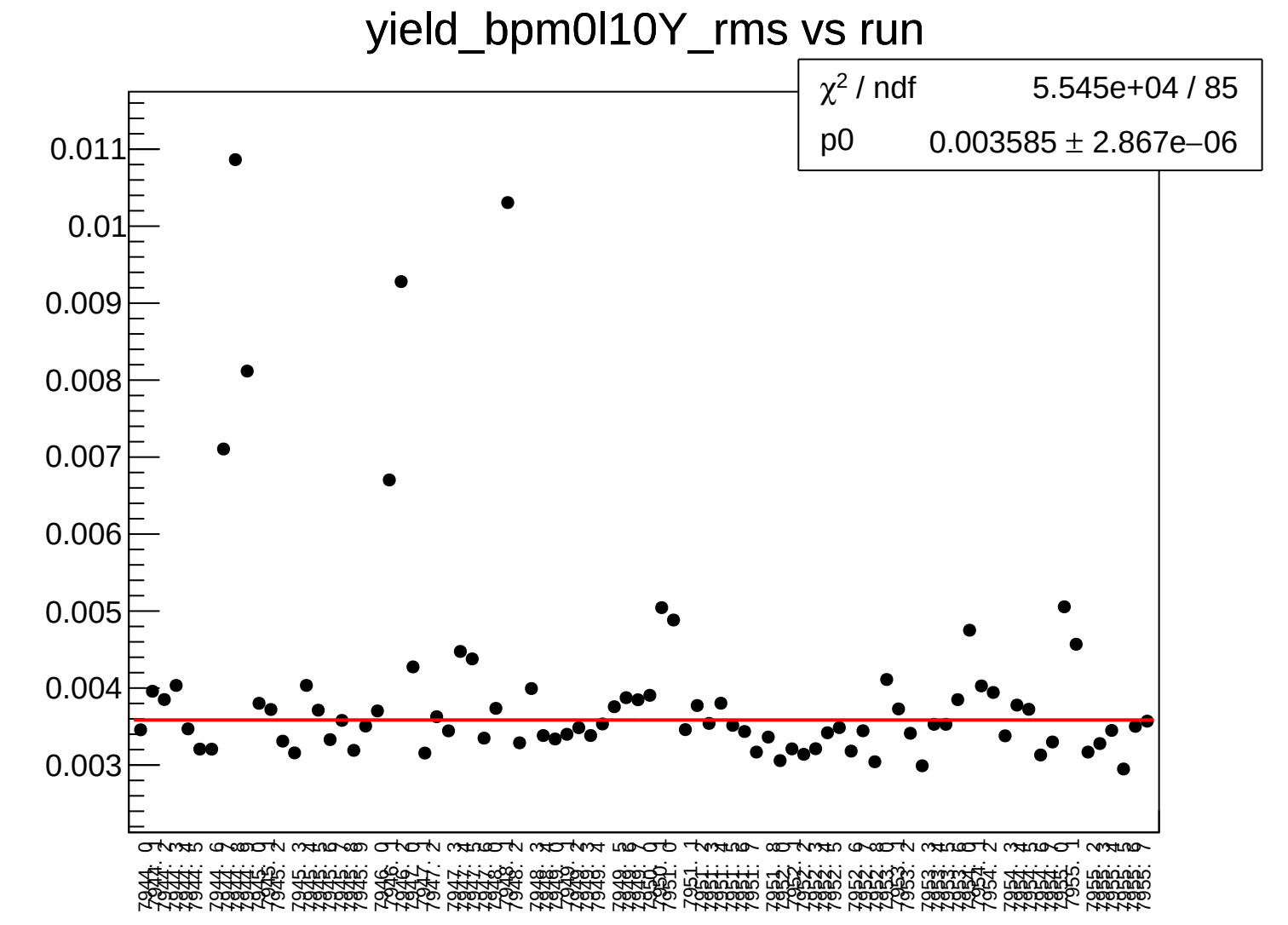

yield_bpm0l10X_mean vs run
χ² / ndf 2.024e+06 / 85
p0 −0.8466 ± 1.429e−05
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 86
Mean −673.3
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

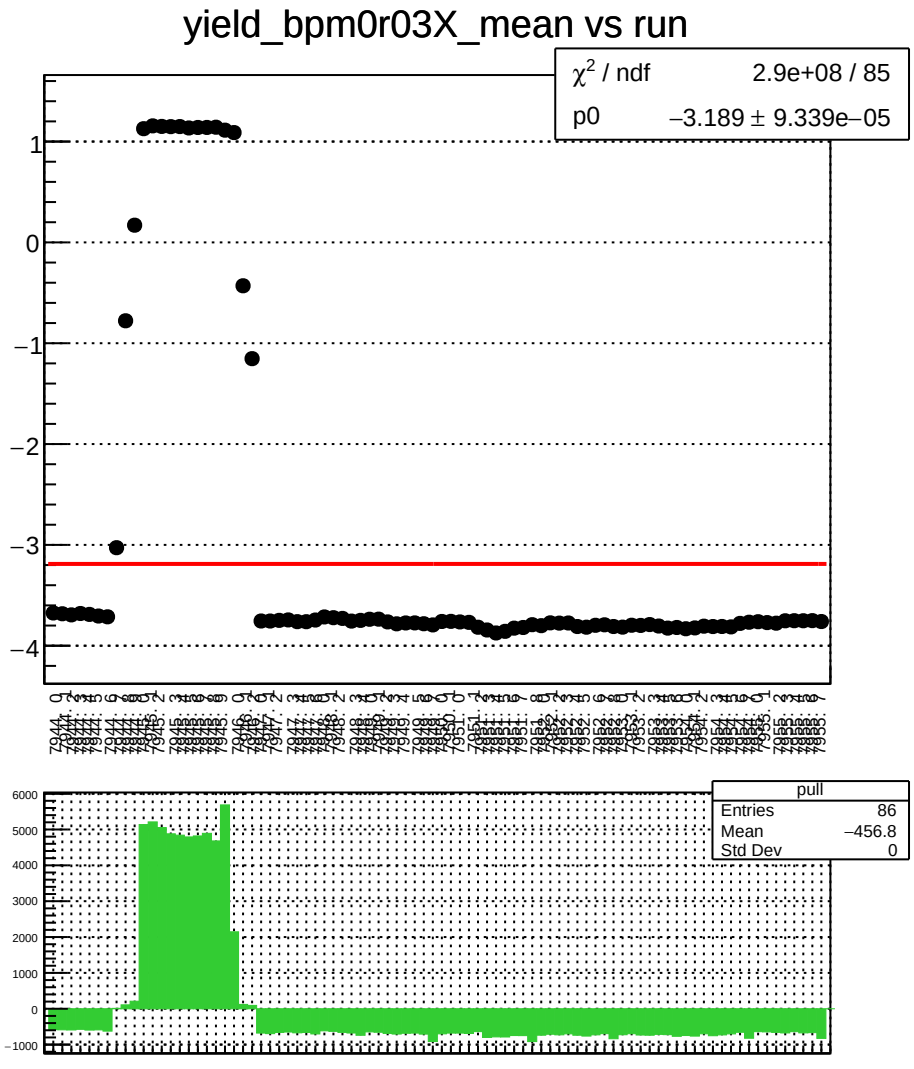

pull1D
Entries 86
Mean −2.454
Std Dev 5.867
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

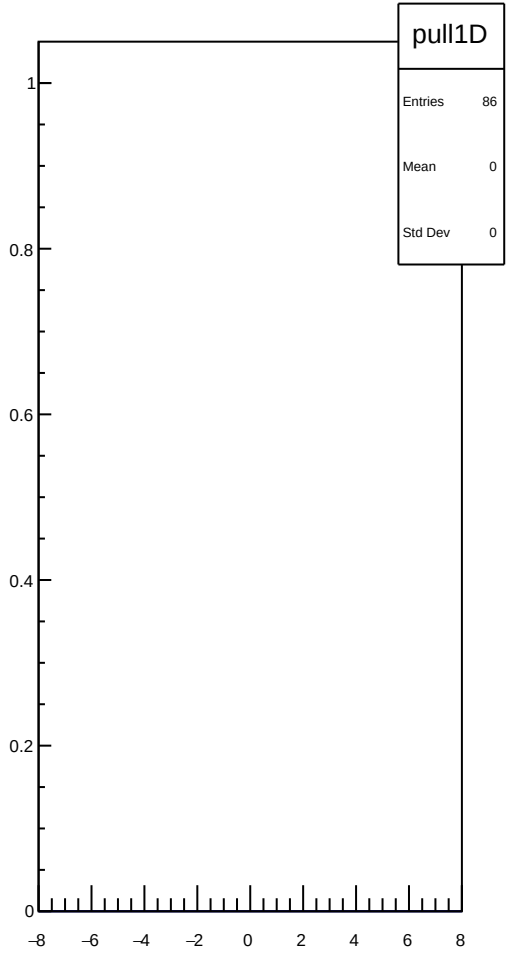

yield_bpm0l10X_rms vs run
χ² / ndf 2.285e+04 / 85
p0 0.01277 ± 1.01e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

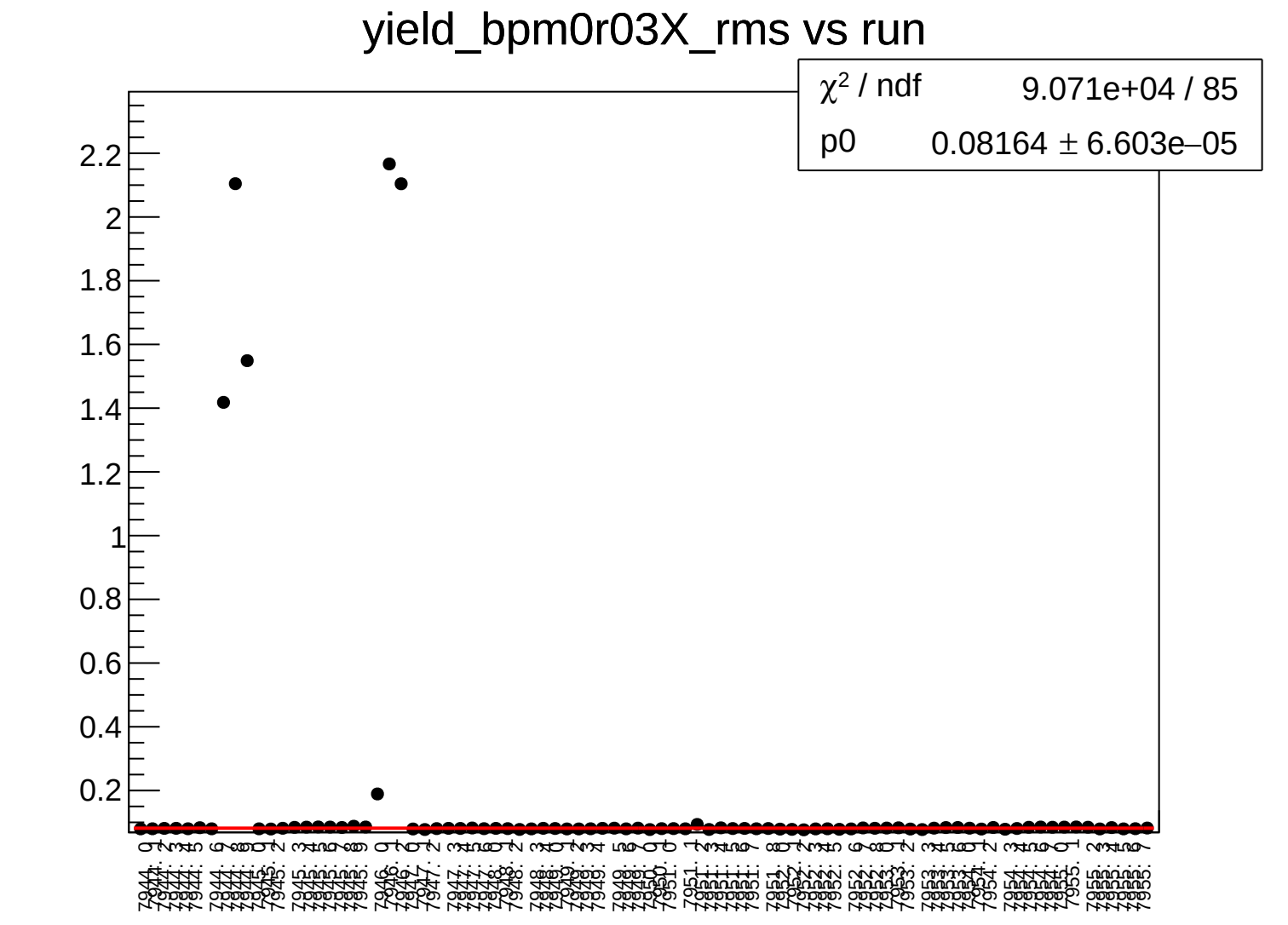

yield_bpm0l10Y_mean vs run
χ² / ndf 1.683e+07 / 85
p0 −0.3184 ± 4.054e−06
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
−0.35
−0.36
pull
Entries 86
Mean −699.5
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

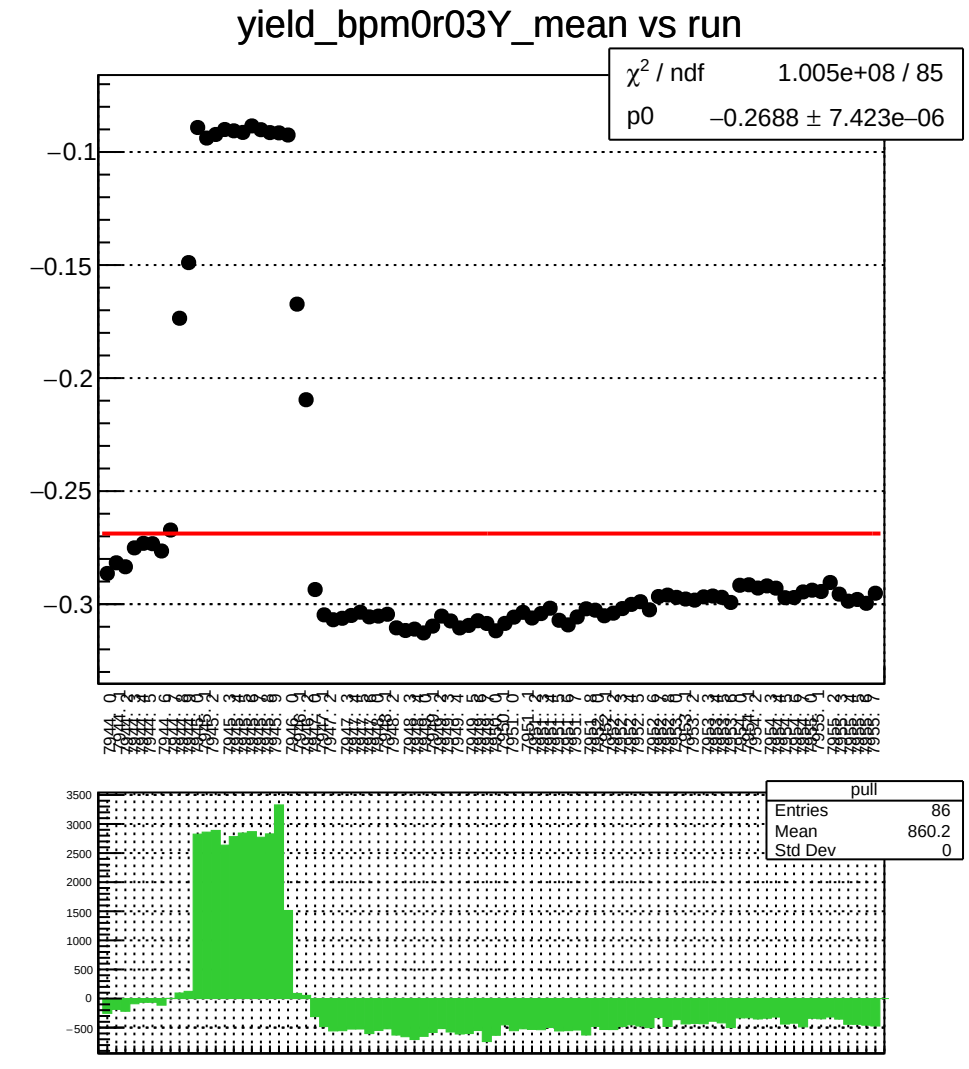

pull1D
Entries 86
Mean 0.2141
Std Dev 2.542
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

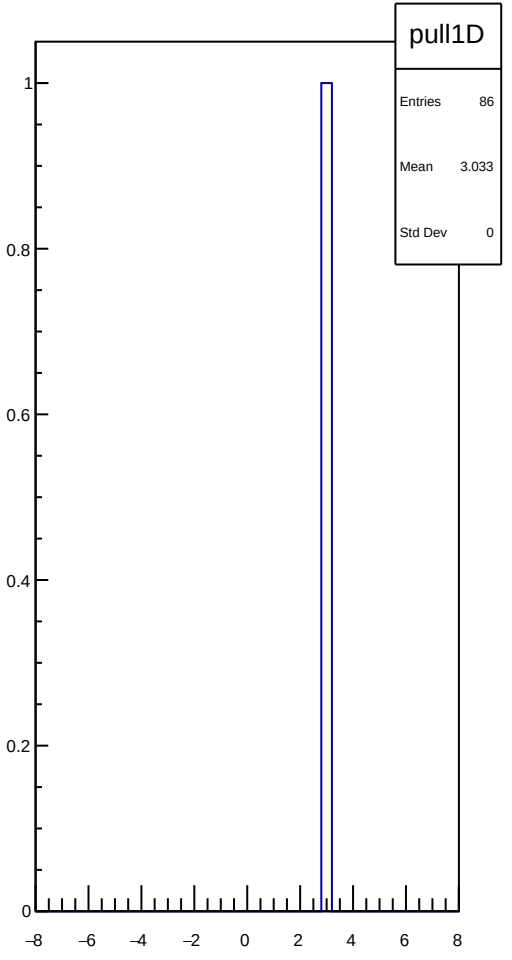

yield_bpm0l10Y_rms vs run
χ² / ndf 5.545e+04 / 85
p0 0.003585 ± 2.867e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

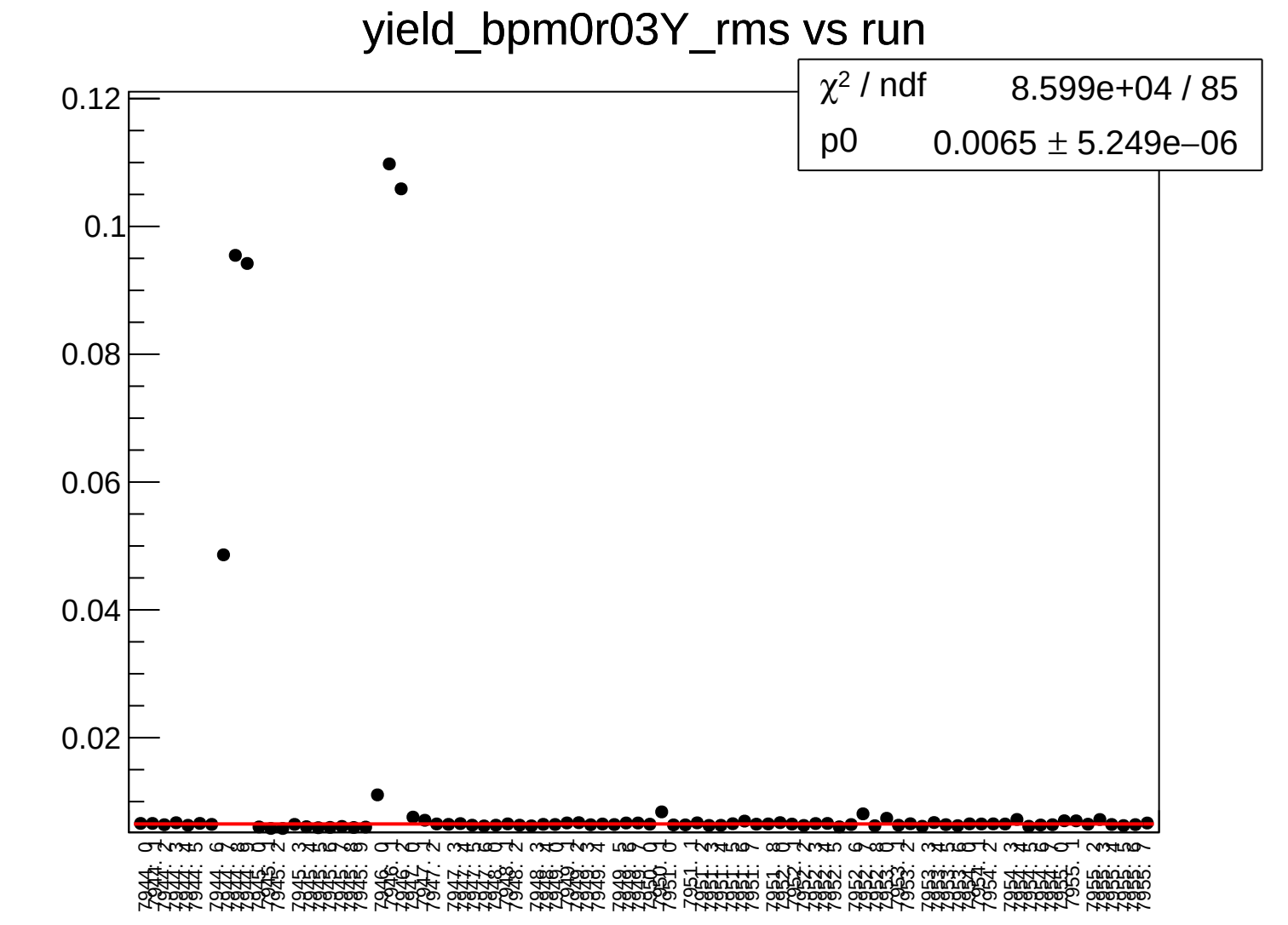

yield_bpm0r03X_mean vs run
χ² / ndf 2.9e+08 / 85
p0 −3.189 ± 9.339e−05
pull
Entries 86
Mean −456.8
Std Dev 0

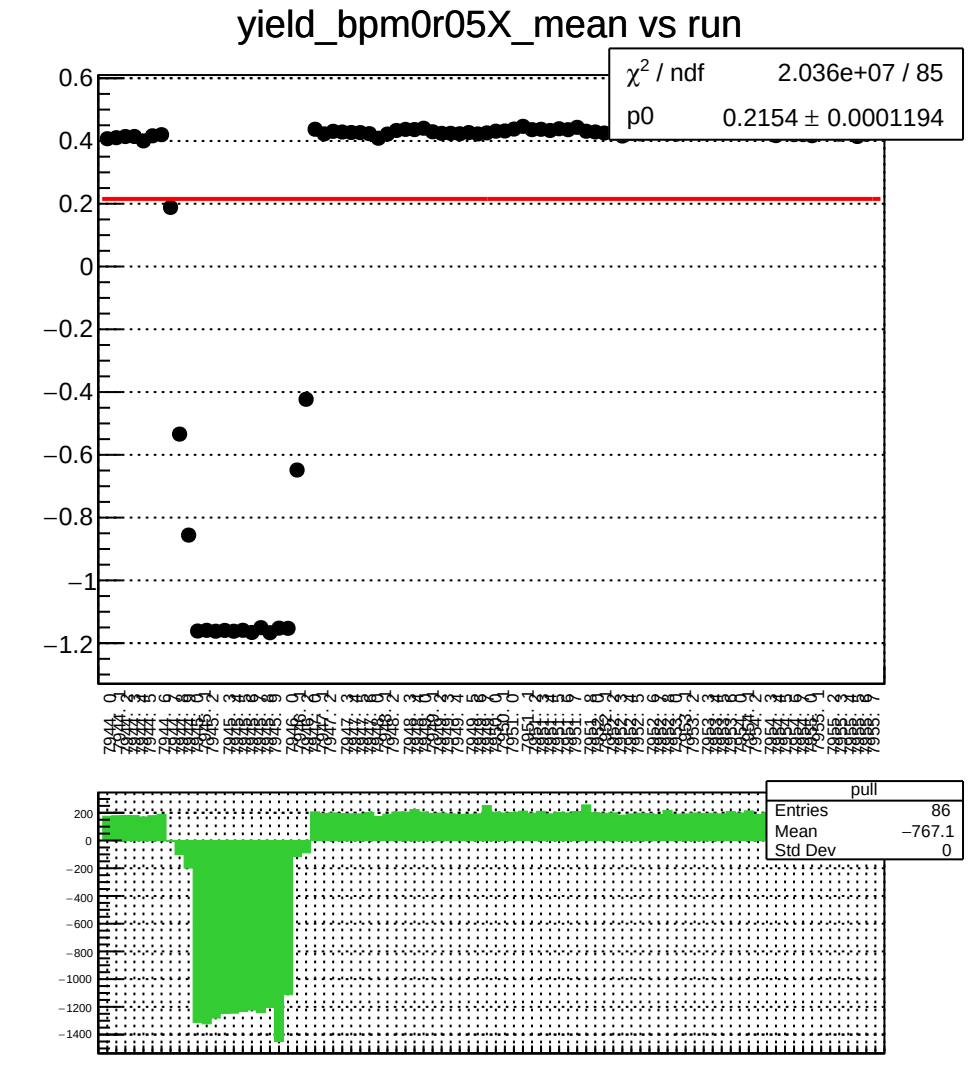

pull1D
Entries 86
Mean 0
Std Dev 0

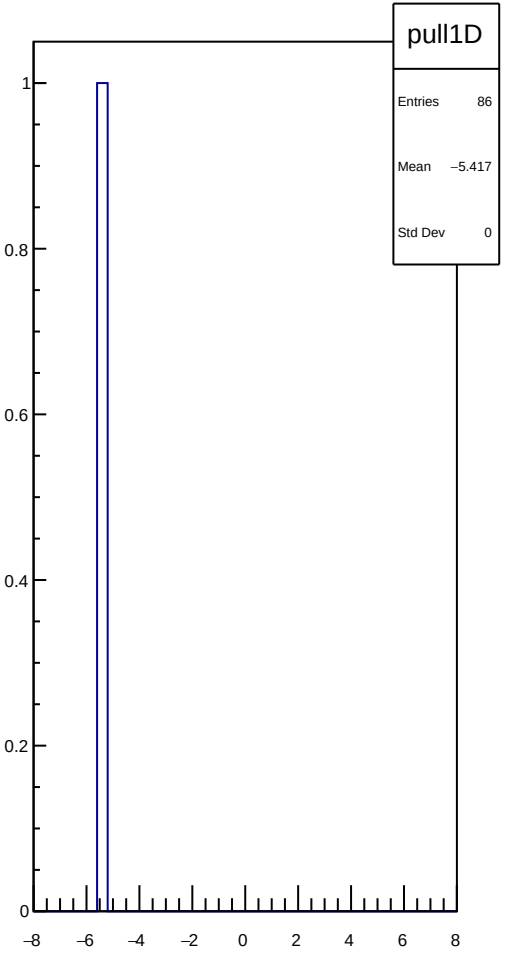

yield_bpm0r03X_rms vs run
χ^2 / ndf 9.071e+04 / 85
p0 0.08164 ± 6.603e−05
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

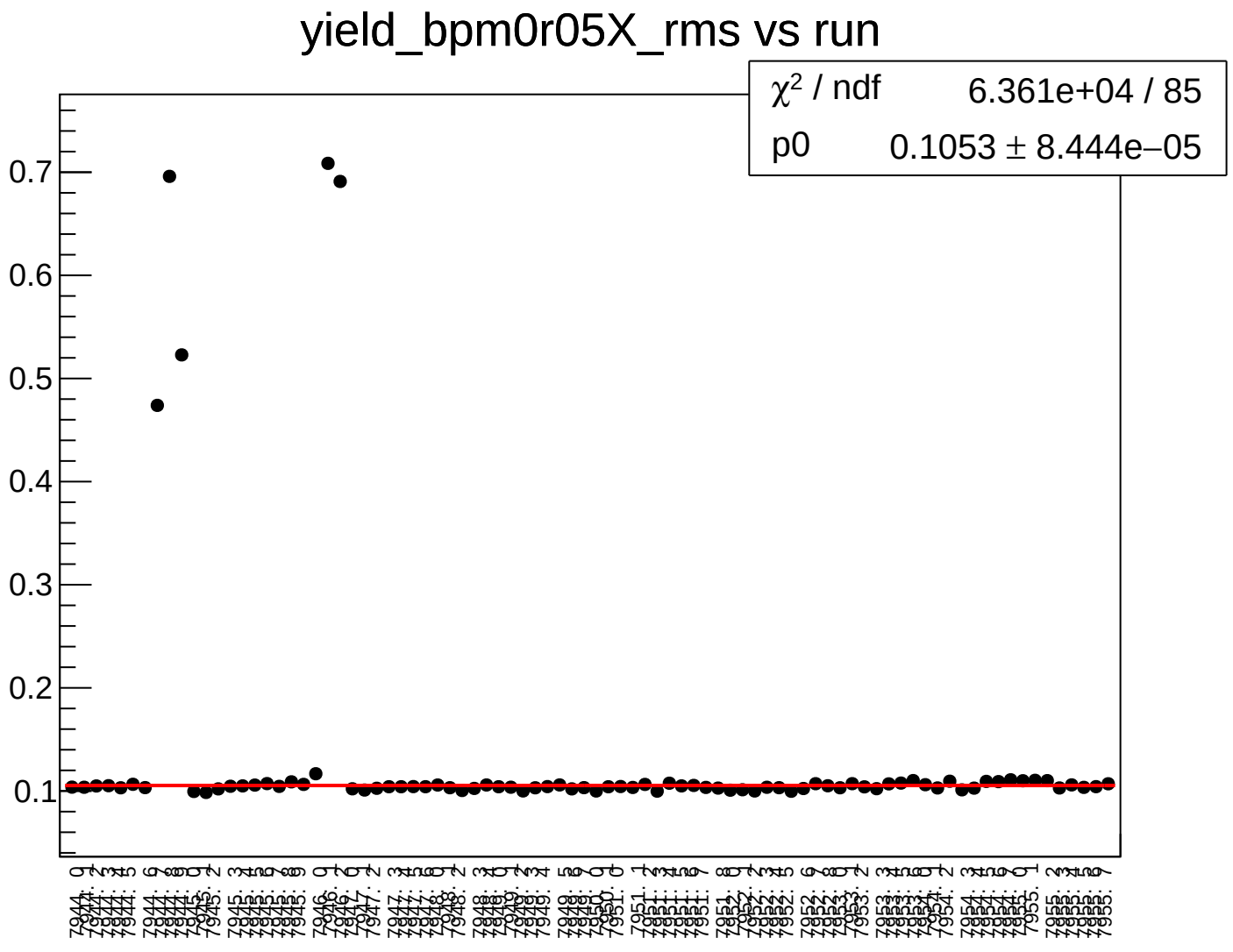

yield_bpm0r03Y_mean vs run
χ² / ndf 1.005e+08 / 85
p0 −0.2688 ± 7.423e−06
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 86
Mean 860.2
Std Dev 0
3500
3000
2500
2000
1500
1000
500
0
−500

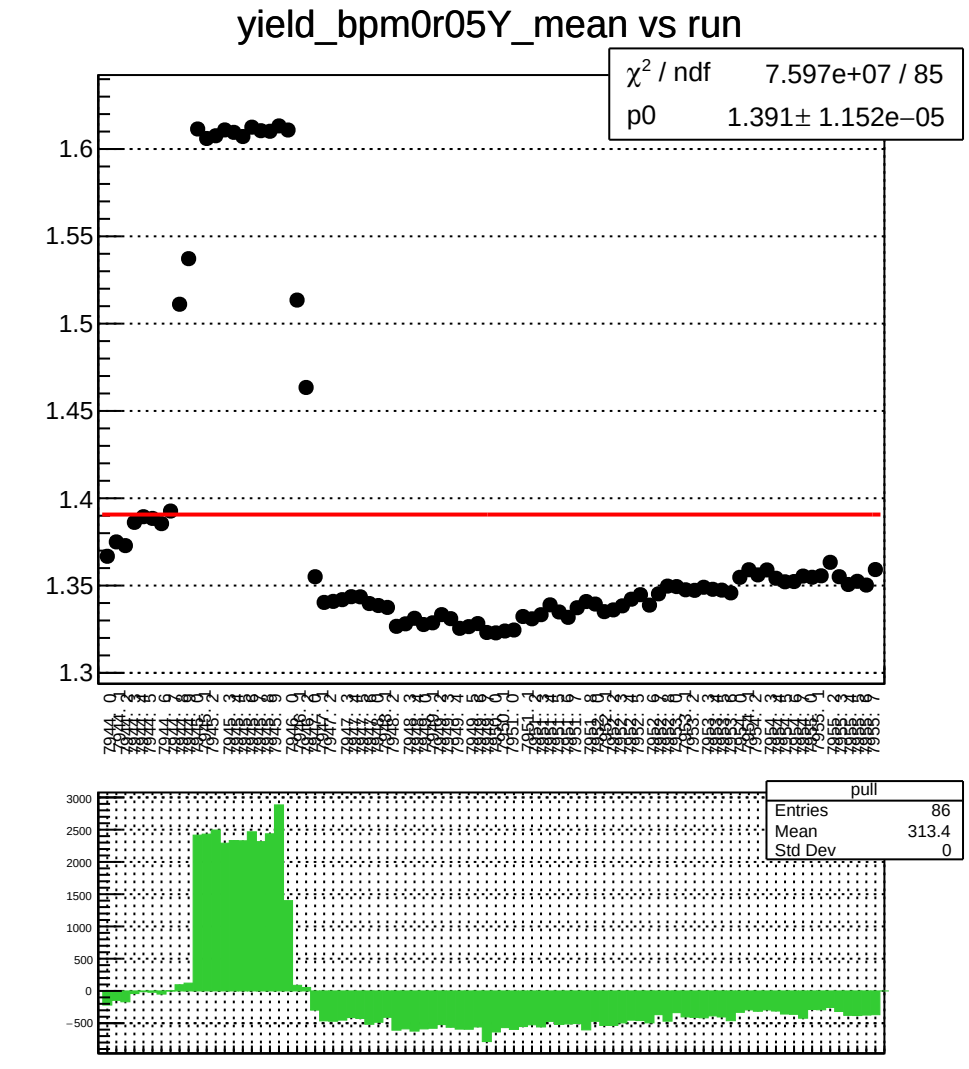

pull1D
Entries 86
Mean 3.033
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

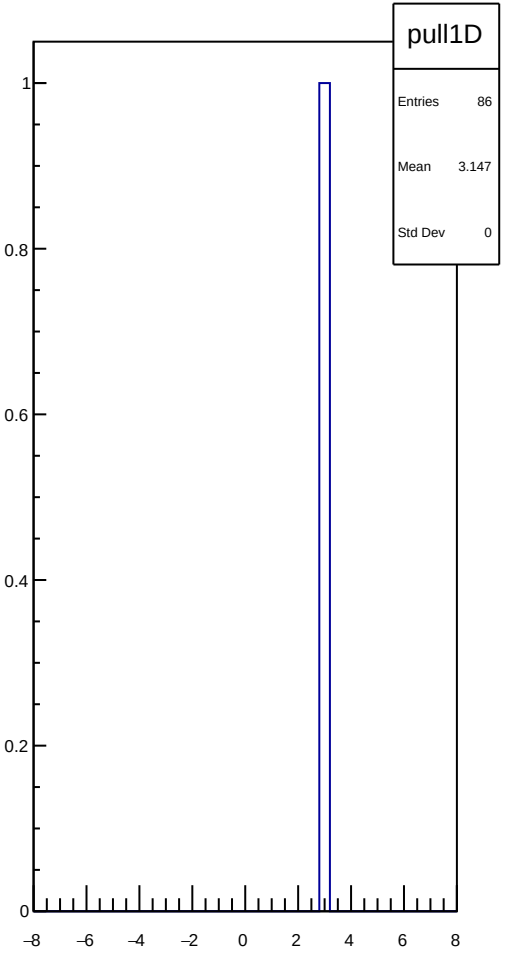

yield_bpm0r03Y_rms vs run
χ² / ndf 8.599e+04 / 85
p0 0.0065 ± 5.249e−06
0.12
0.1
0.08
0.06
0.04
0.02

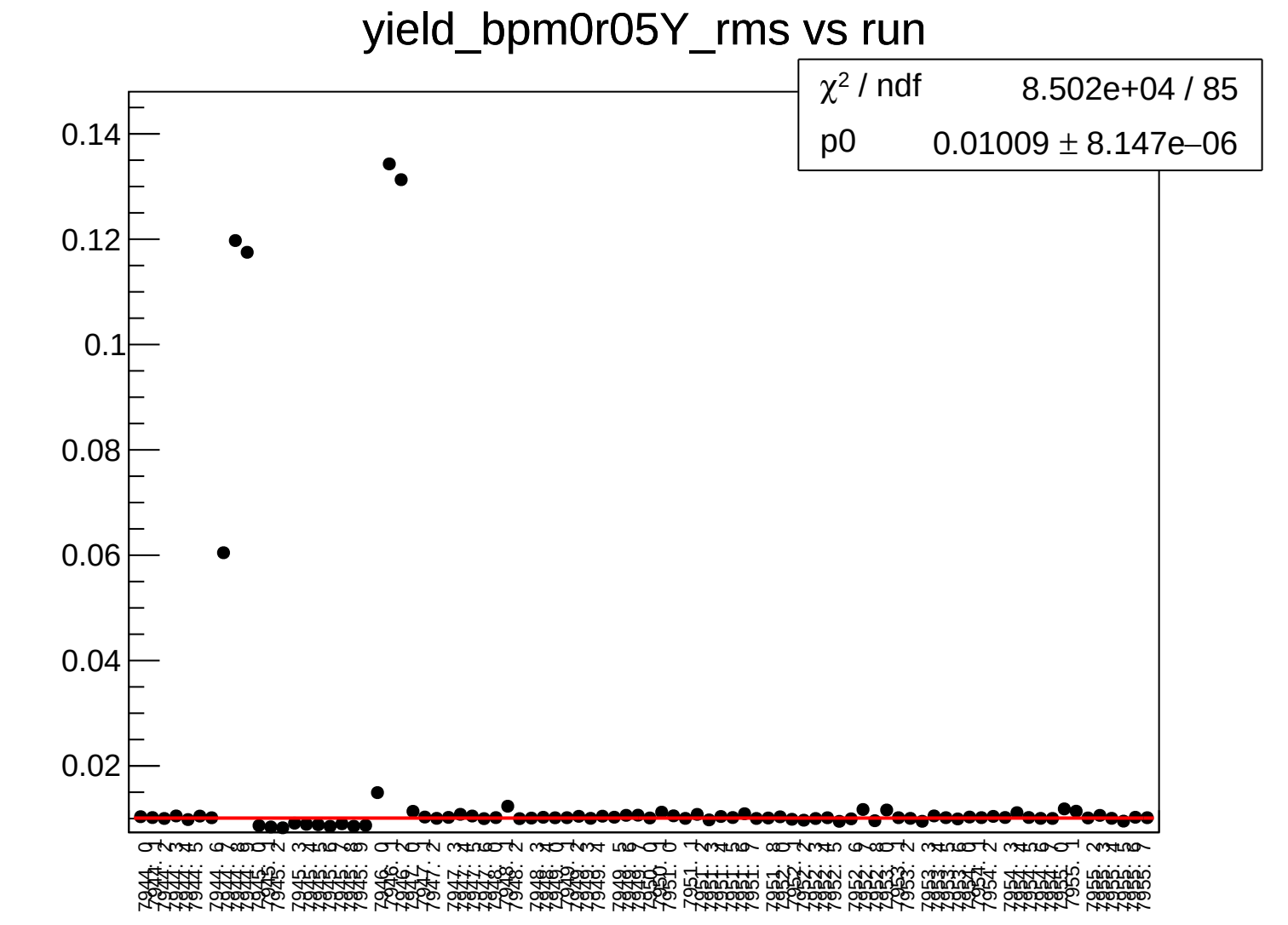

yield_bpm0r05X_mean vs run
χ² / ndf 2.036e+07 / 85
p0 0.2154 ± 0.0001194
pull
Entries 86
Mean −767.1
Std Dev 0

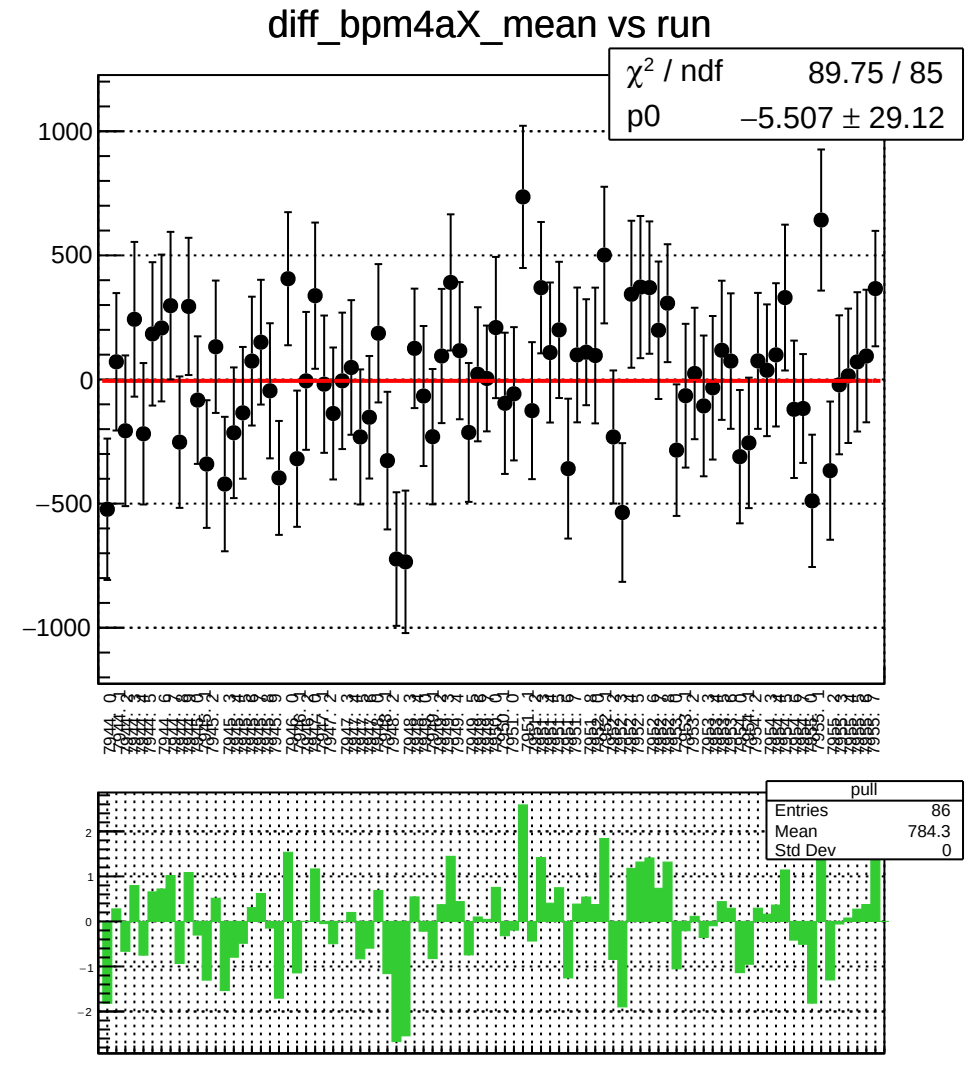

pull1D
Entries 86
Mean −5.417
Std Dev 0

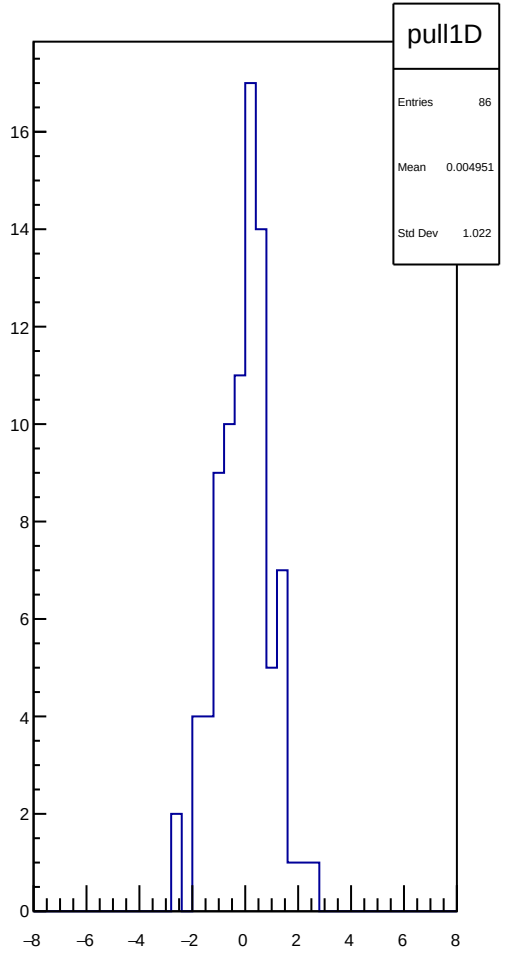

yield_bpm0r05X_rms vs run
χ² / ndf 6.361e+04 / 85
p0 0.1053 ± 8.444e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

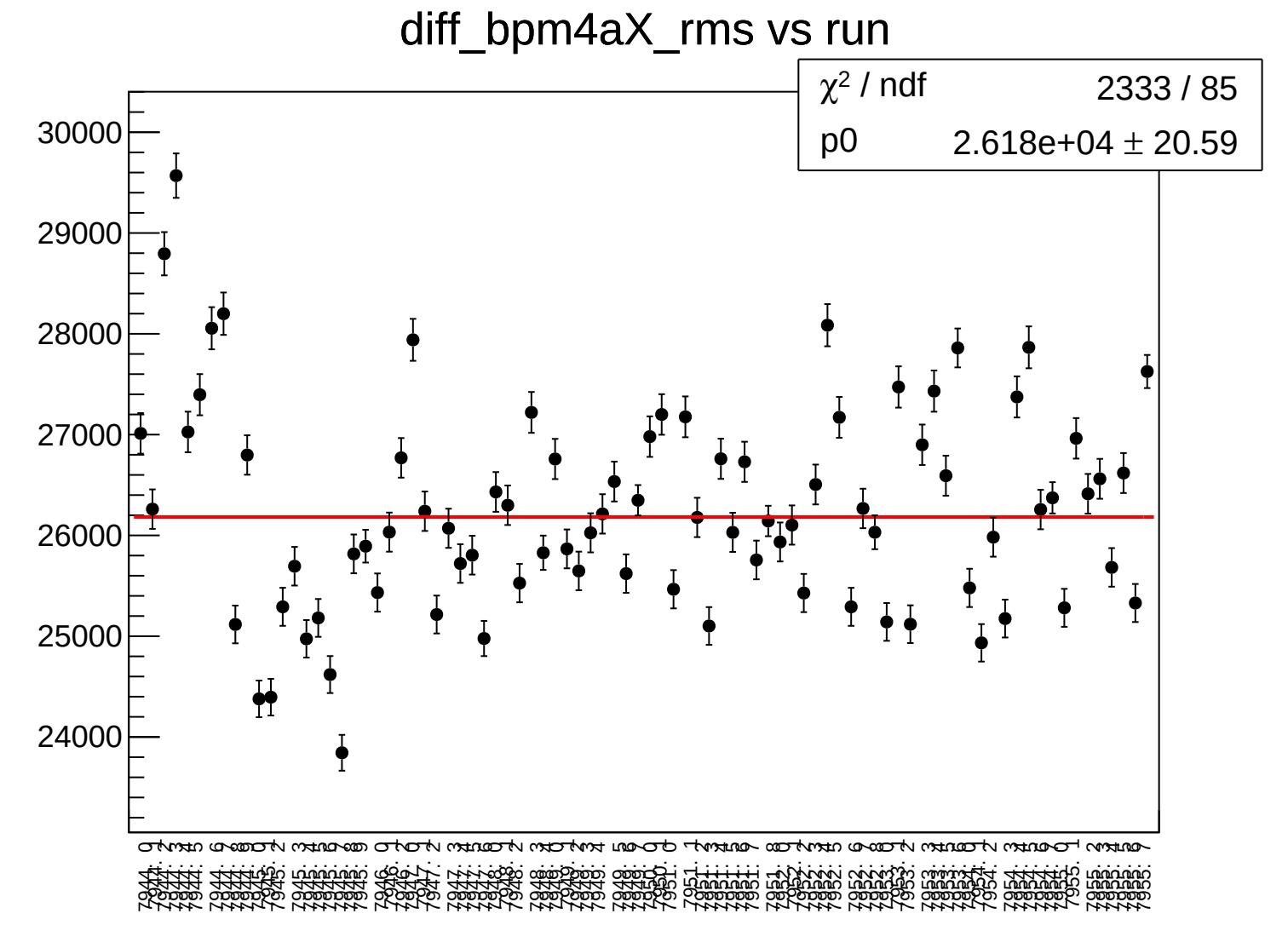

yield_bpm0r05Y_mean vs run
χ² / ndf 7.597e+07 / 85
p0 1.391± 1.152e−05
pull
Entries 86
Mean 313.4
Std Dev 0

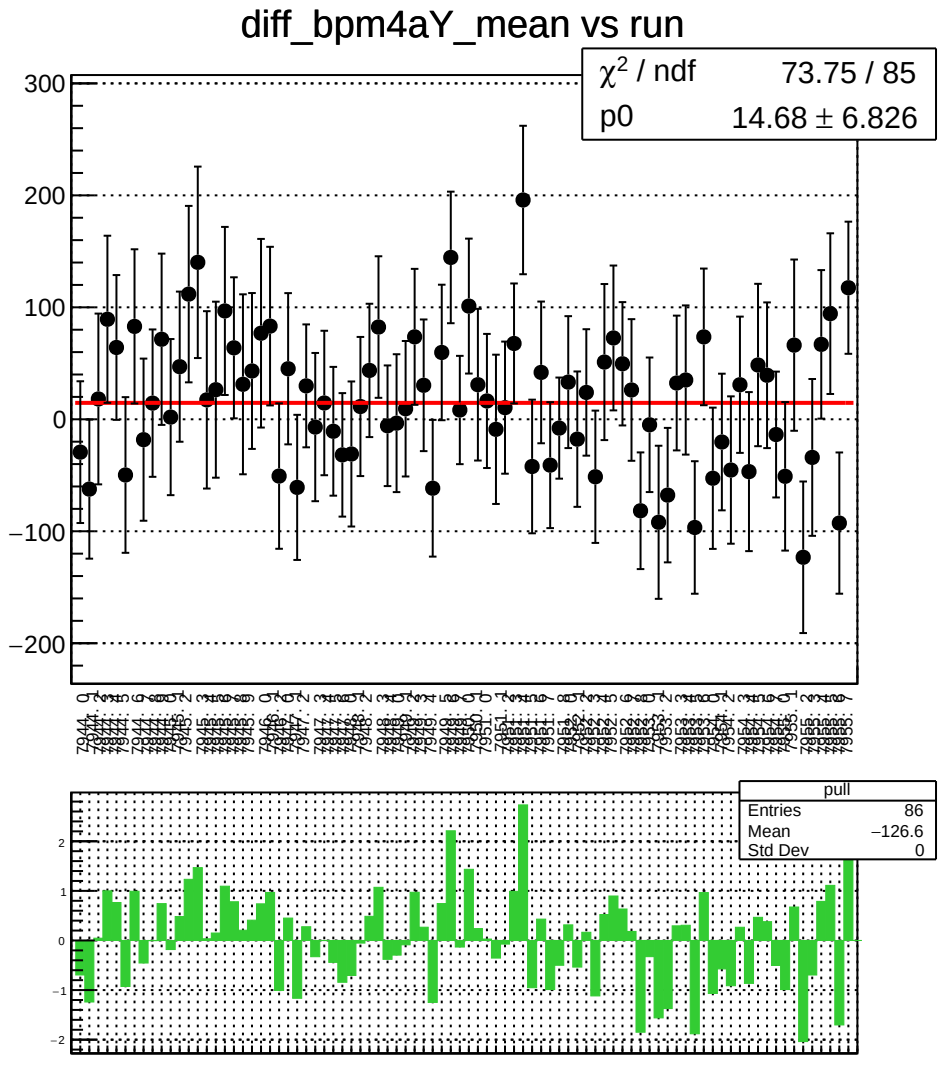

pull1D
Entries 86
Mean 3.147
Std Dev 0

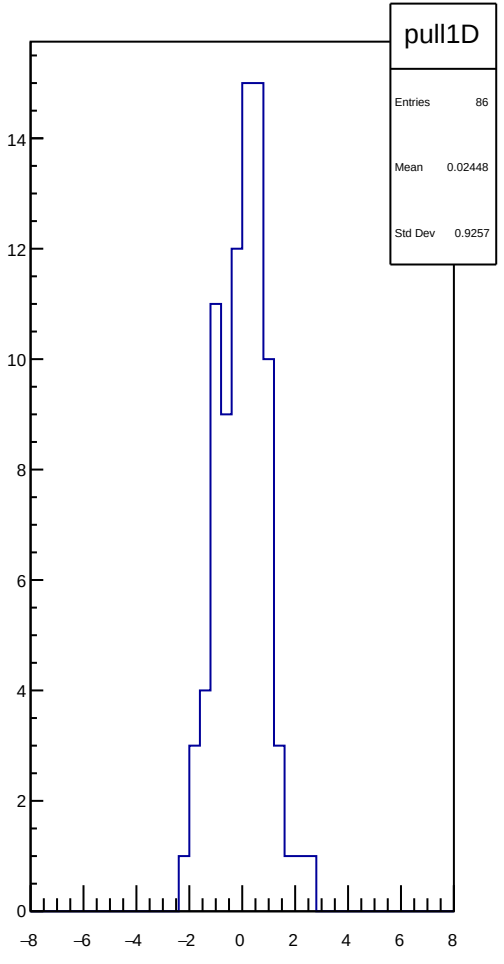

yield_bpm0r05Y_rms vs run
χ² / ndf 8.502e+04 / 85
p0 0.01009 ± 8.147e–06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

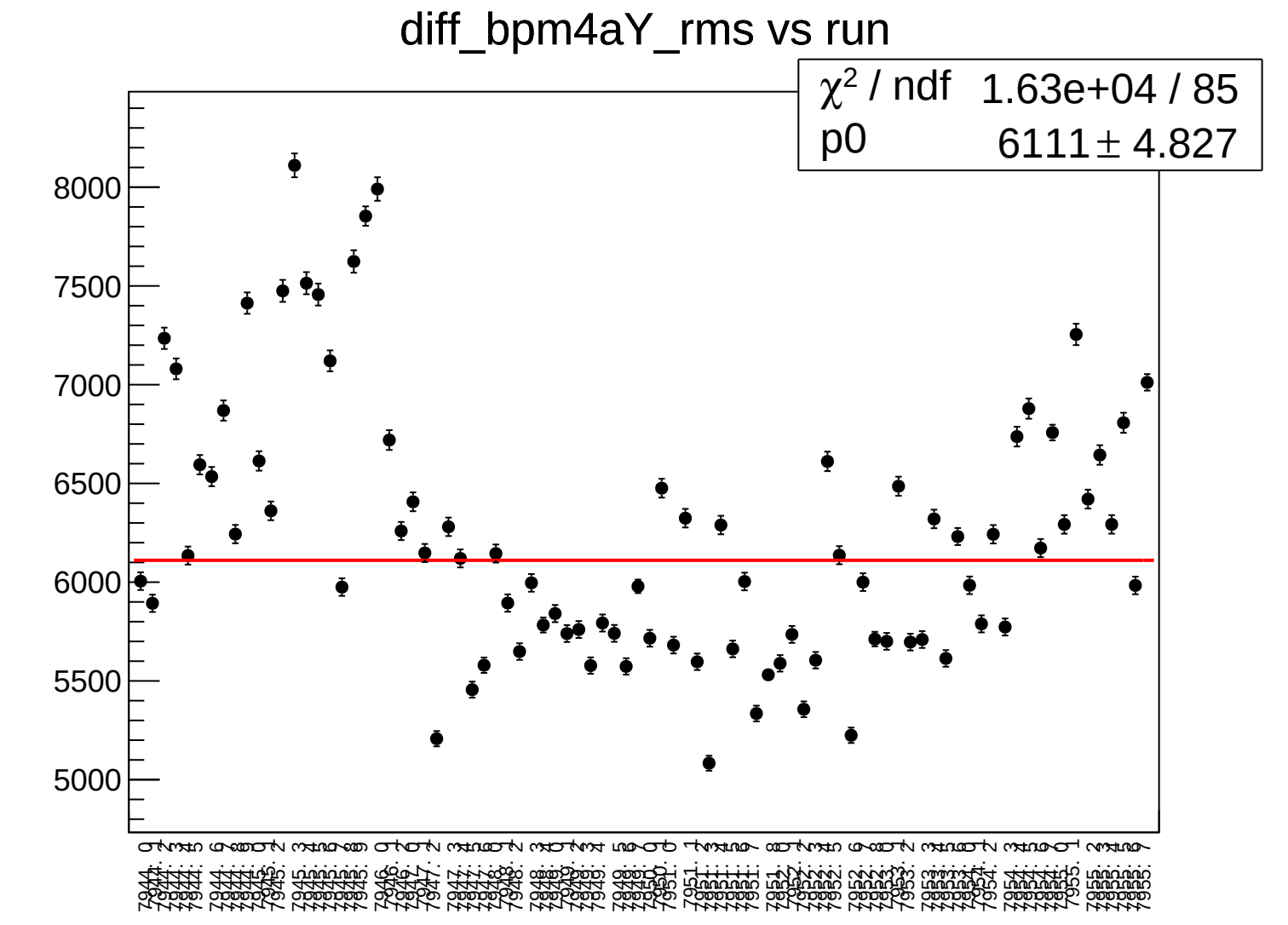

diff_bpm4aX_mean vs run
χ² / ndf 89.75 / 85
p0 −5.507 ± 29.12
1000
500
0
−500
−1000
pull
Entries 86
Mean 784.3
Std Dev 0
2
1
0
−1
−2

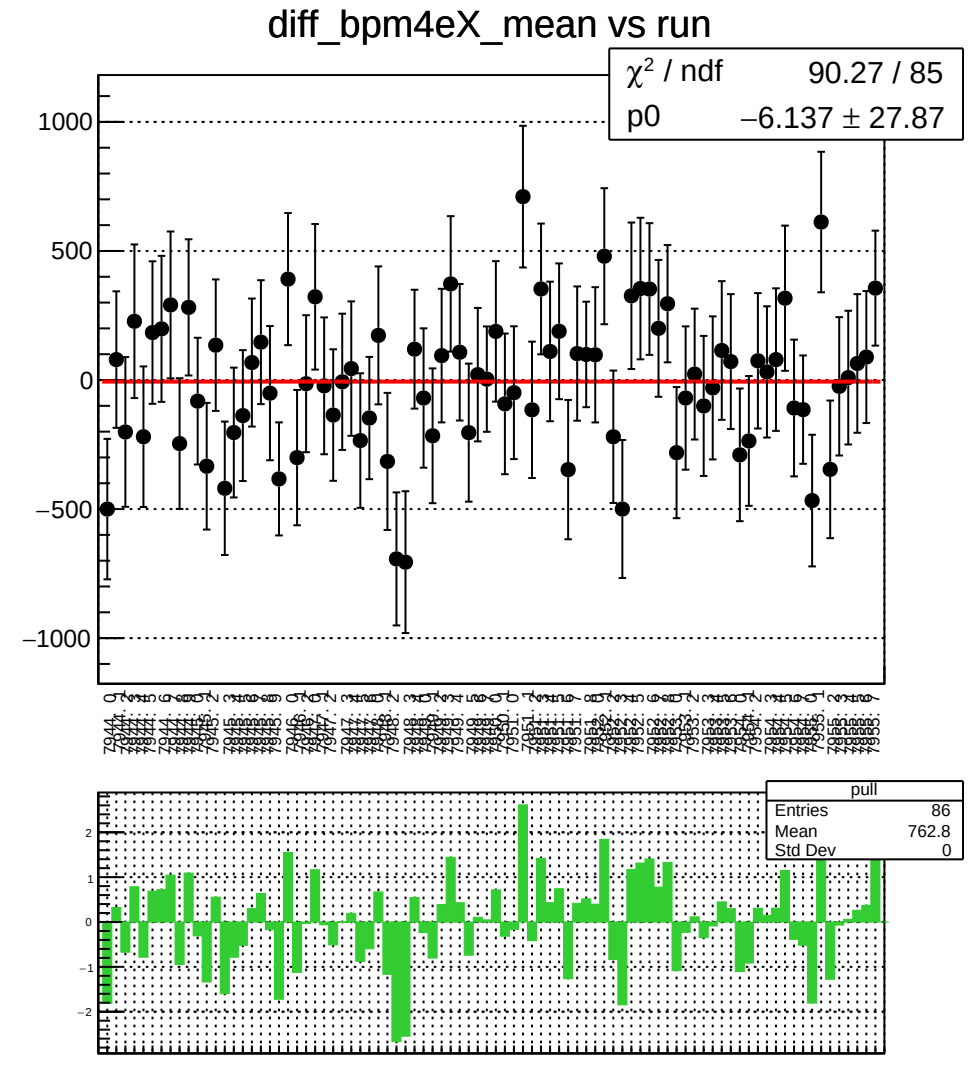

pull1D
Entries 86
Mean 0.004951
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

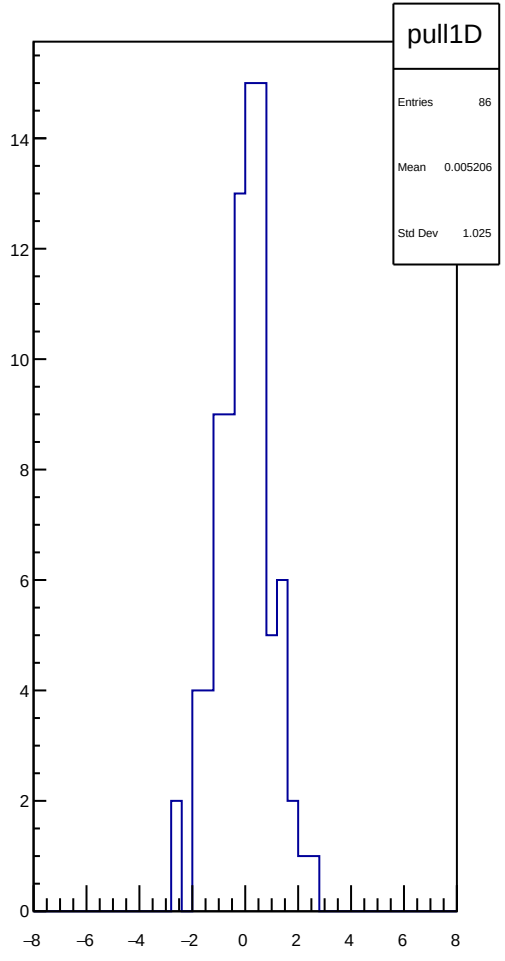

diff_bpm4aX_rms vs run
χ² / ndf 2333 / 85
p0 2.618e+04 ± 20.59
30000
29000
28000
27000
26000
25000
24000

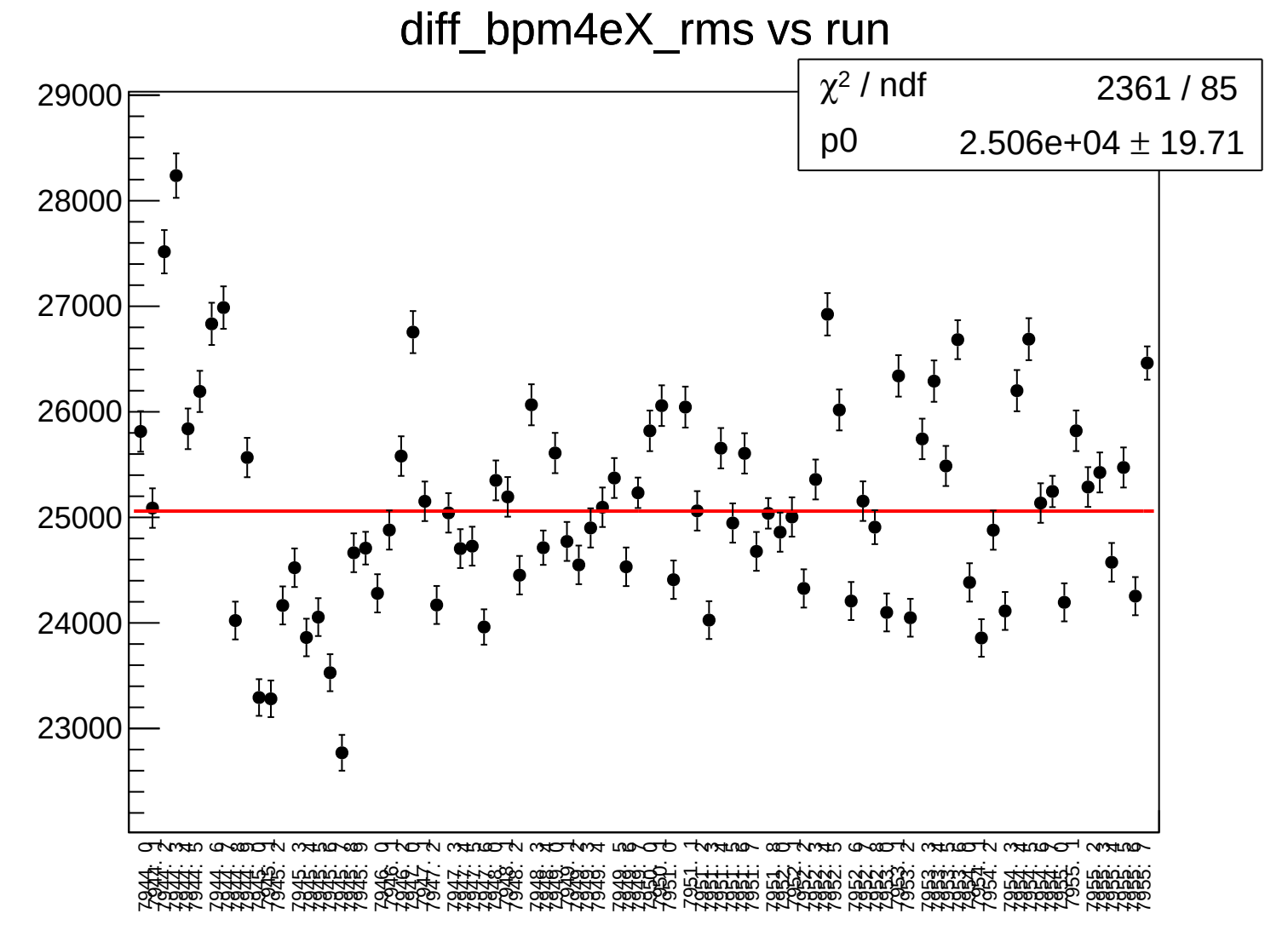

diff_bpm4aY_mean vs run
χ² / ndf 73.75 / 85
p0 14.68 ± 6.826
300
200
100
0
−100
−200
pull
Entries 86
Mean −126.6
Std Dev 0
2
1
0
−1
−2

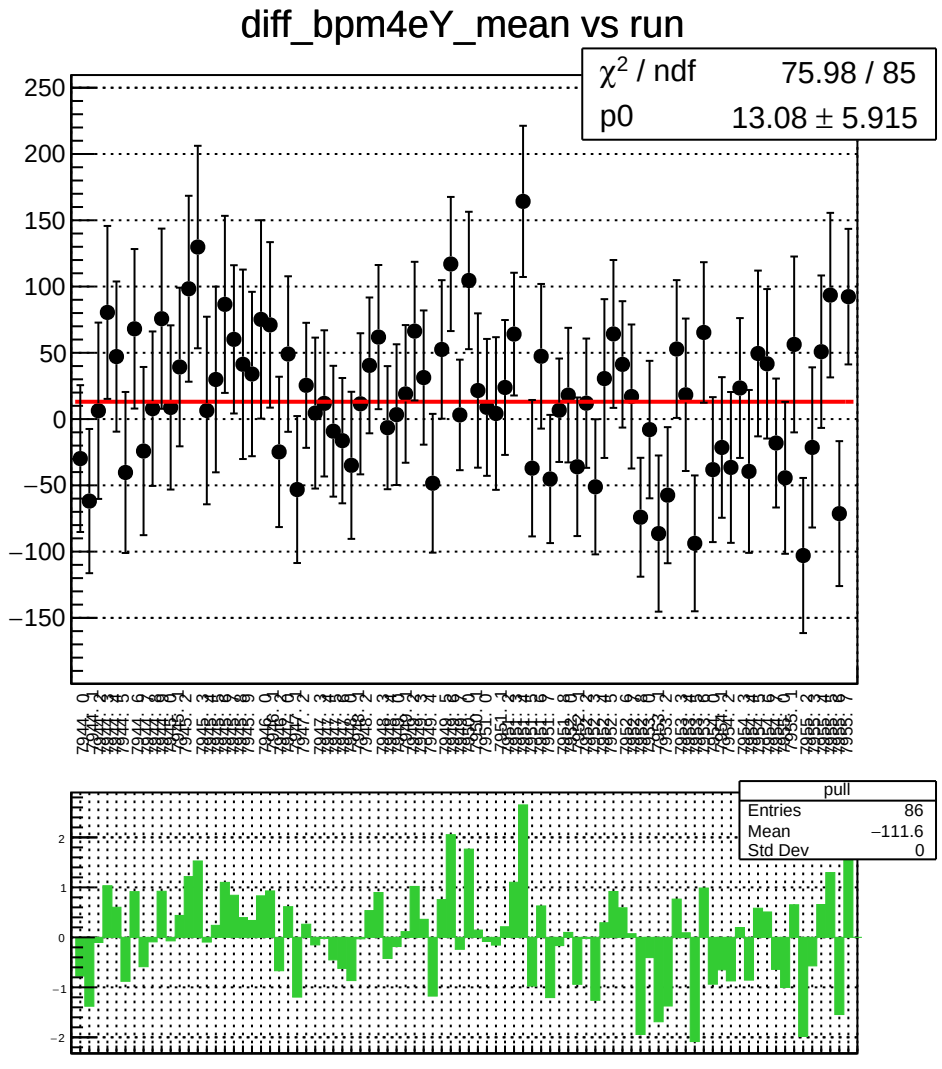

pull1D
Entries 86
Mean 0.02448
Std Dev 0.9257
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

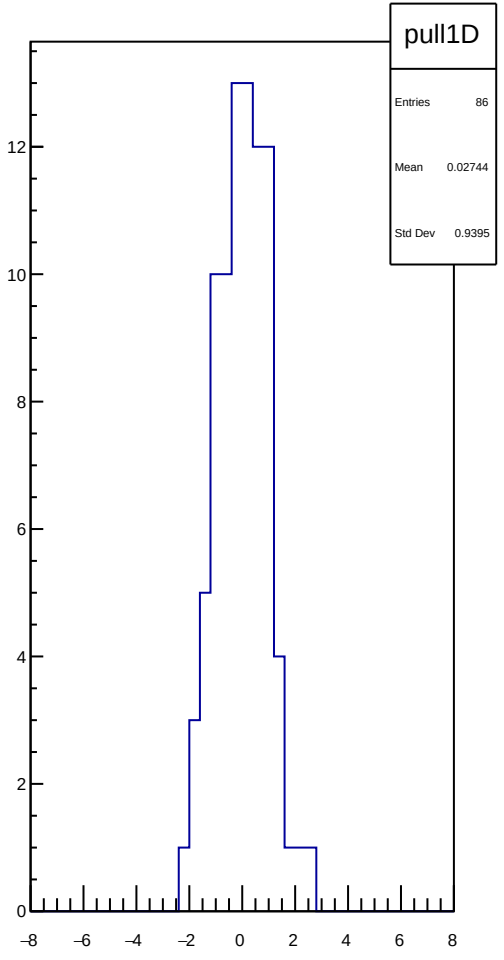

diff_bpm4aY_rms vs run
χ² / ndf 1.63e+04 / 85
p0 6111 ± 4.827
8000
7500
7000
6500
6000
5500
5000

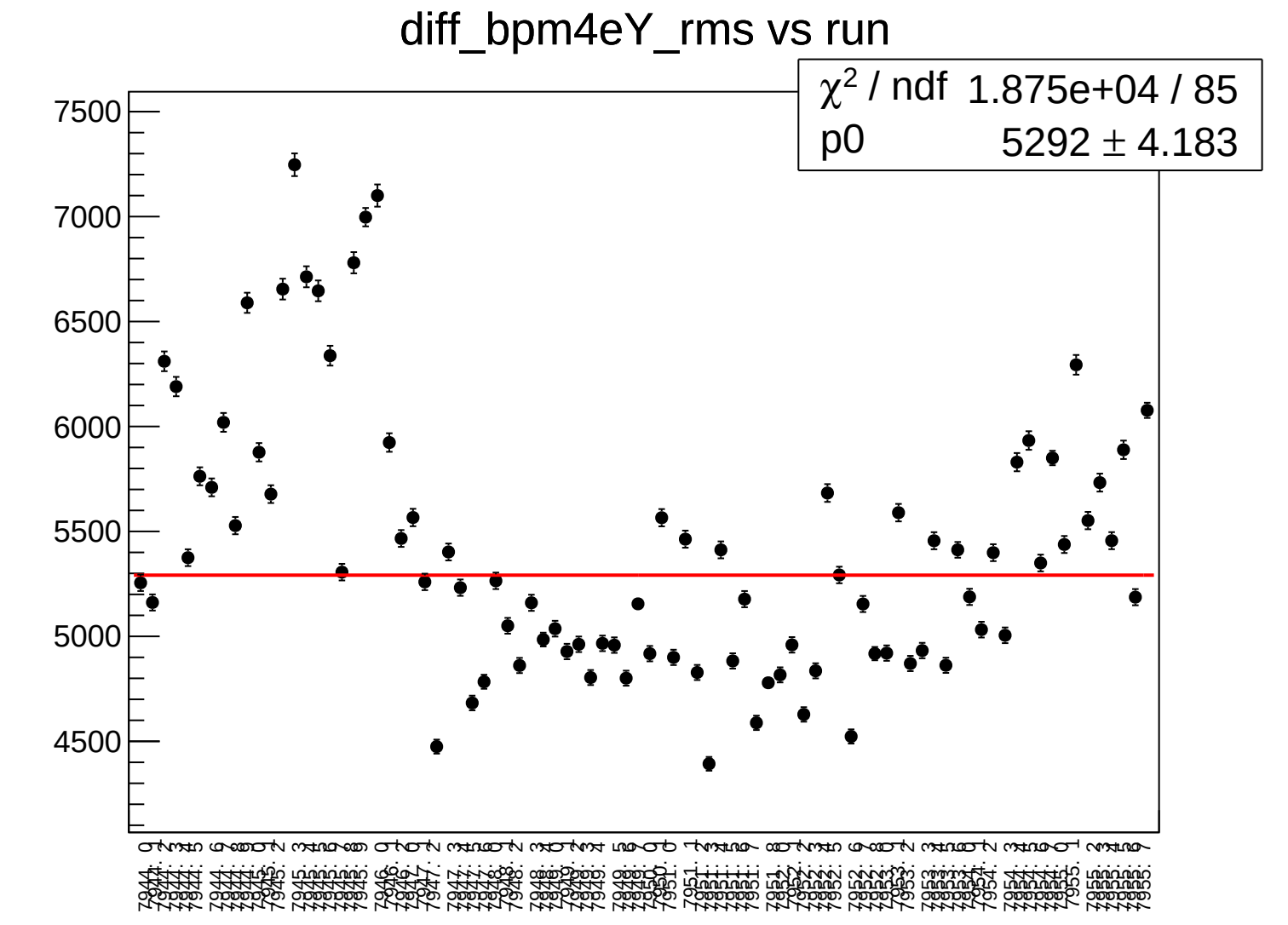

diff_bpm4eX_mean vs run
χ² / ndf 90.27 / 85
p0 −6.137 ± 27.87
1000
500
0
−500
−1000
pull
Entries 86
Mean 762.8
Std Dev 0
2
1
0
−1
−2

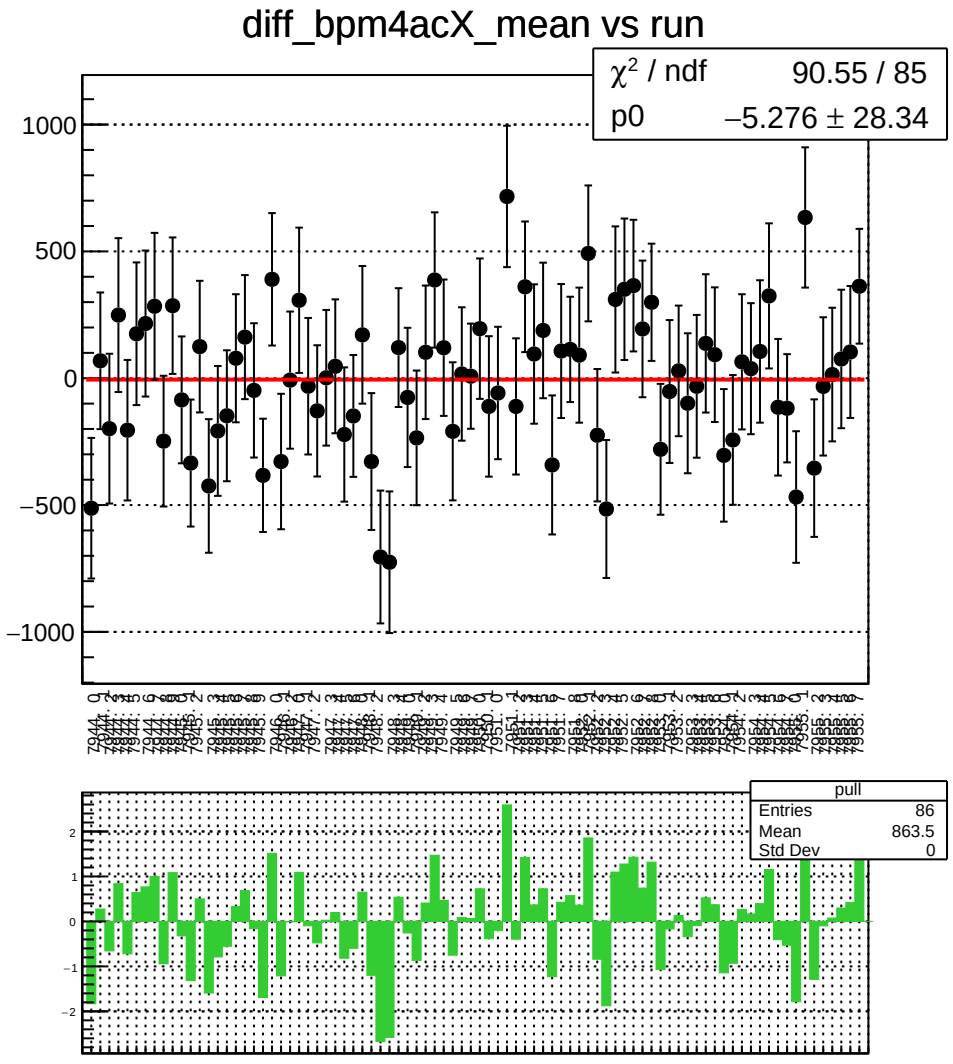

pull1D
Entries 86
Mean 0.005206
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

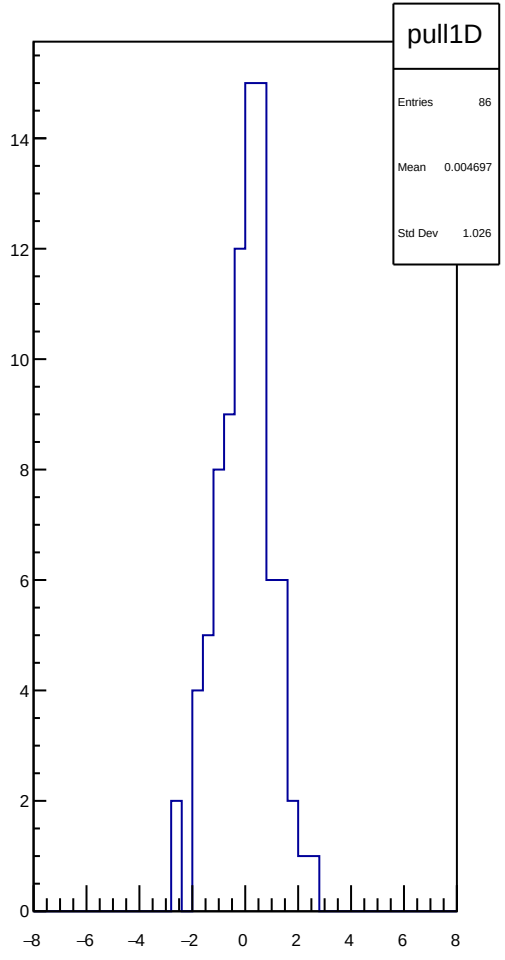

diff_bpm4eX_rms vs run
χ² / ndf 2361 / 85
p0 2.506e+04 ± 19.71
29000
28000
27000
26000
25000
24000
23000

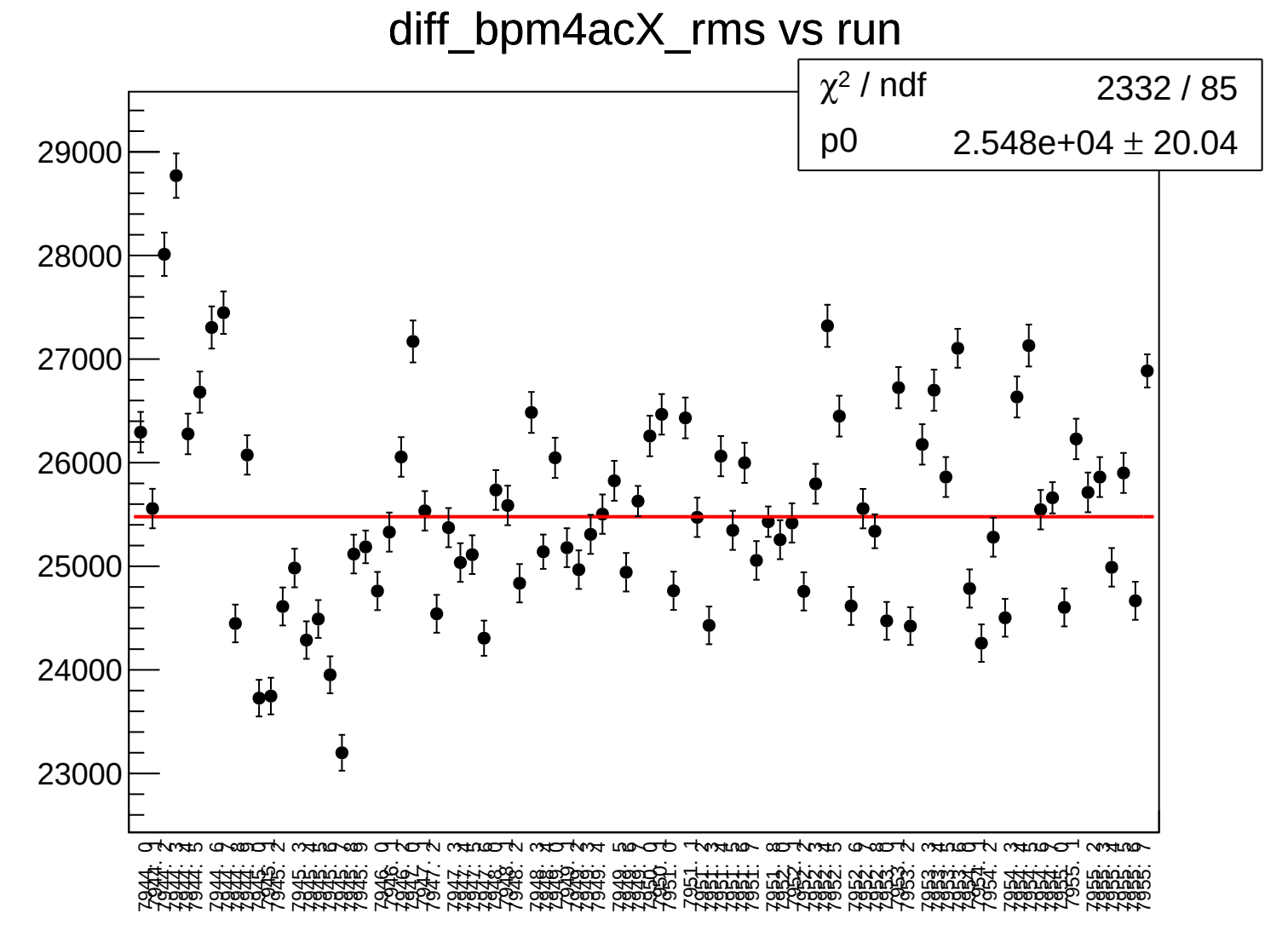

diff_bpm4eY_mean vs run
χ^2 / ndf 75.98 / 85
p0 13.08 ± 5.915
pull
Entries 86
Mean −111.6
Std Dev 0

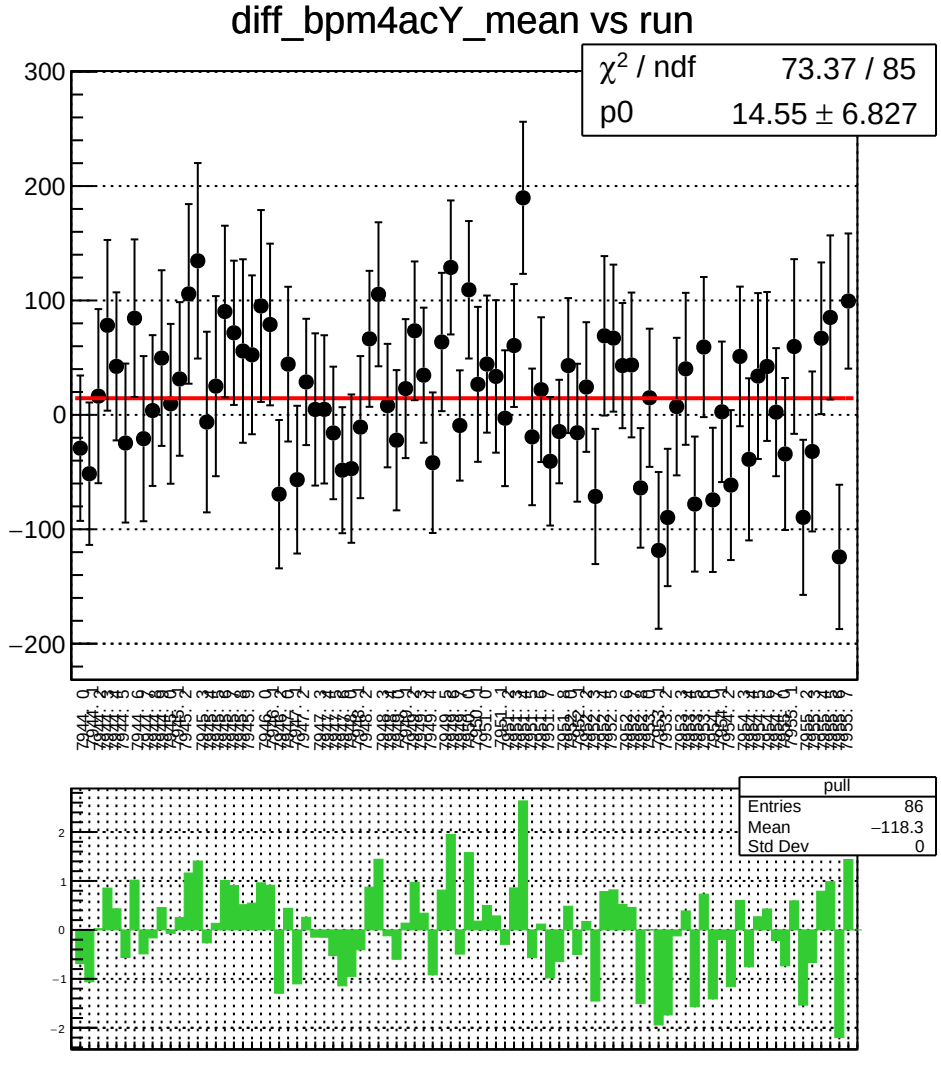

pull1D
Entries 86
Mean 0.02744
Std Dev 0.9395

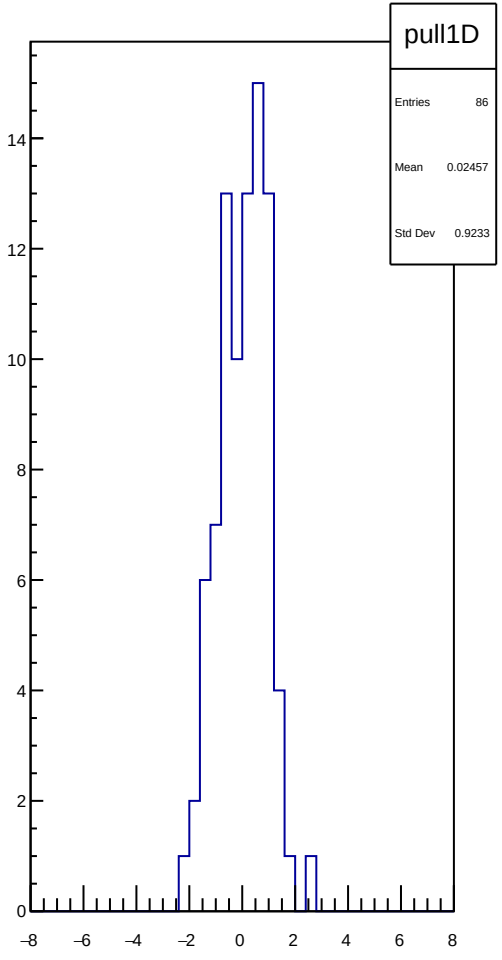

diff_bpm4eY_rms vs run
χ² / ndf 1.875e+04 / 85
p0 5292 ± 4.183
7500
7000
6500
6000
5500
5000
4500

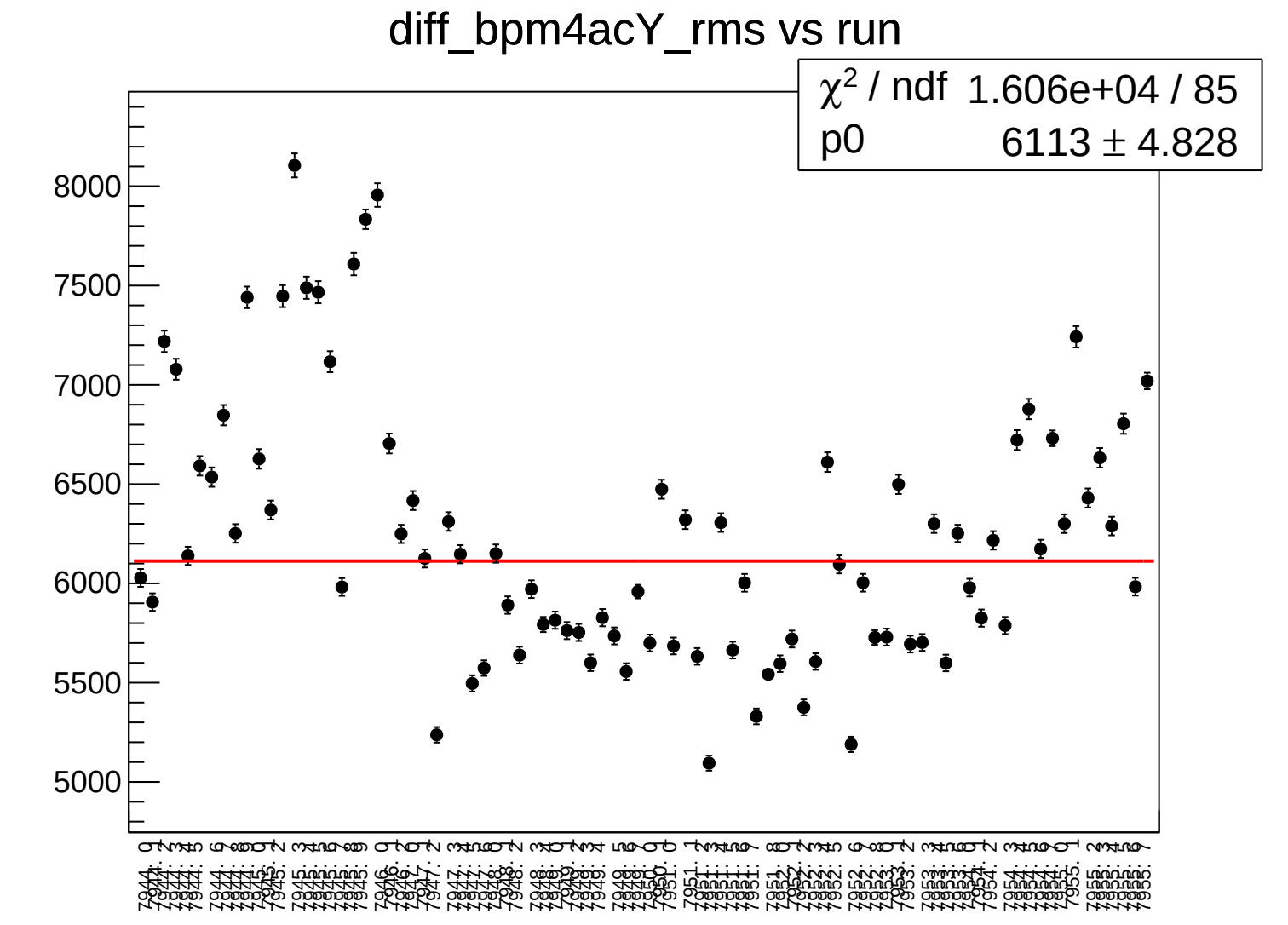

diff_bpm4acX_mean vs run
χ² / ndf 90.55 / 85
p0 −5.276 ± 28.34
1000
500
0
−500
−1000
pull
Entries 86
Mean 863.5
Std Dev 0
2
1
0
−1
−2

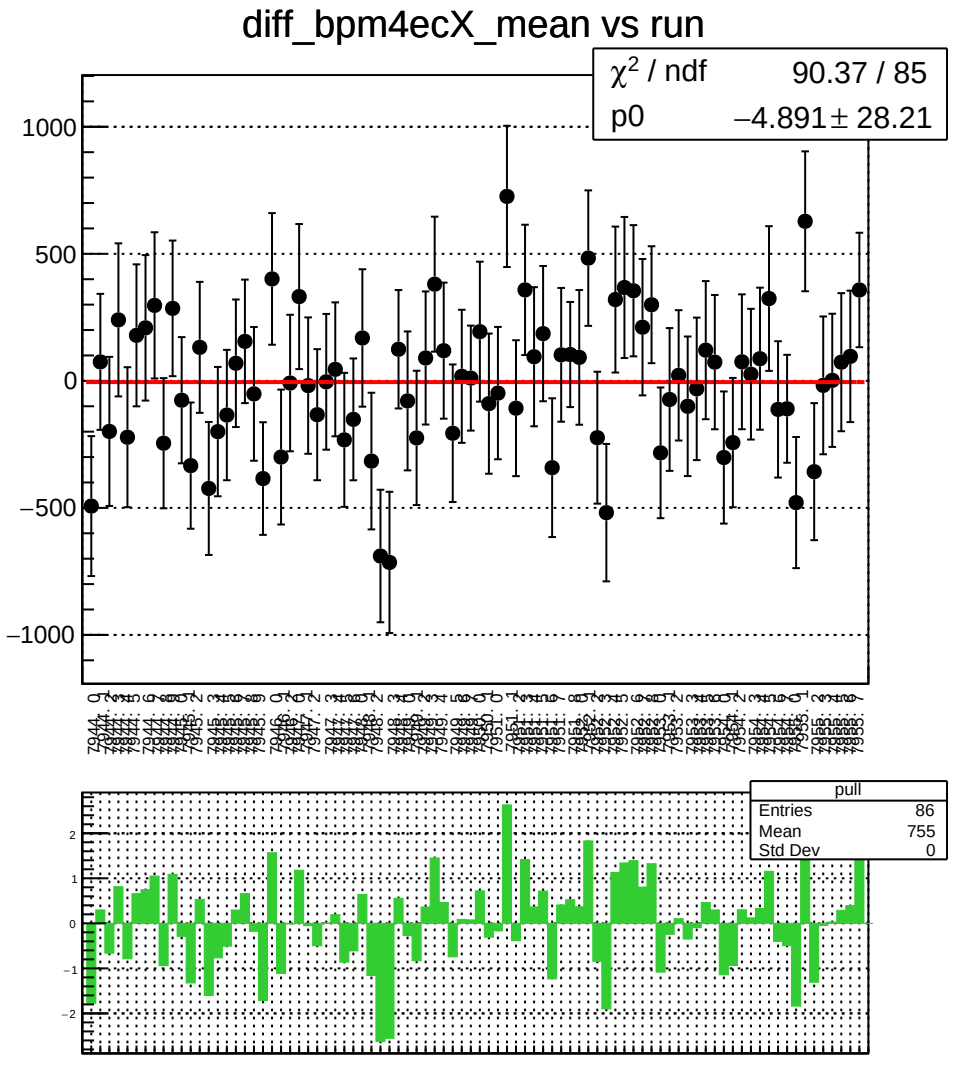

pull1D
Entries 86
Mean 0.004697
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

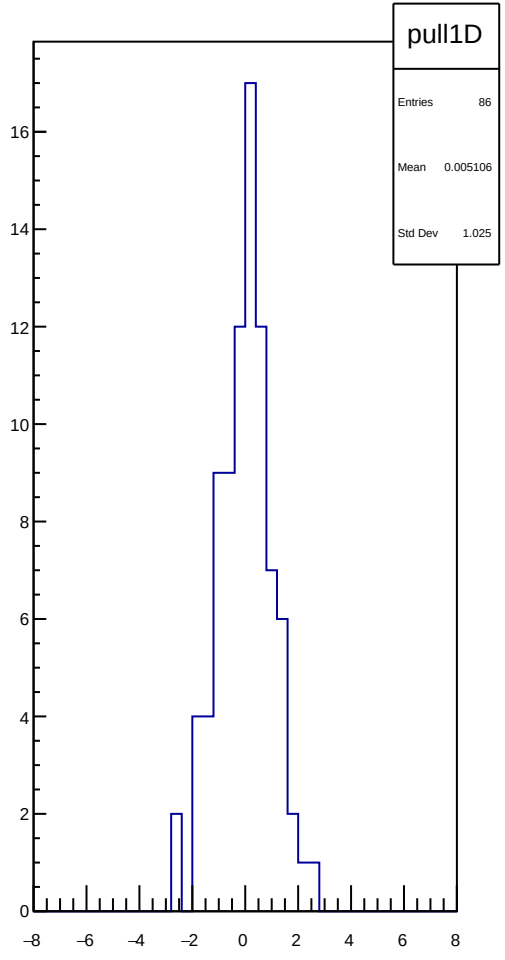

diff_bpm4acX_rms vs run
χ² / ndf 2332 / 85
p0 2.548e+04 ± 20.04
29000
28000
27000
26000
25000
24000
23000

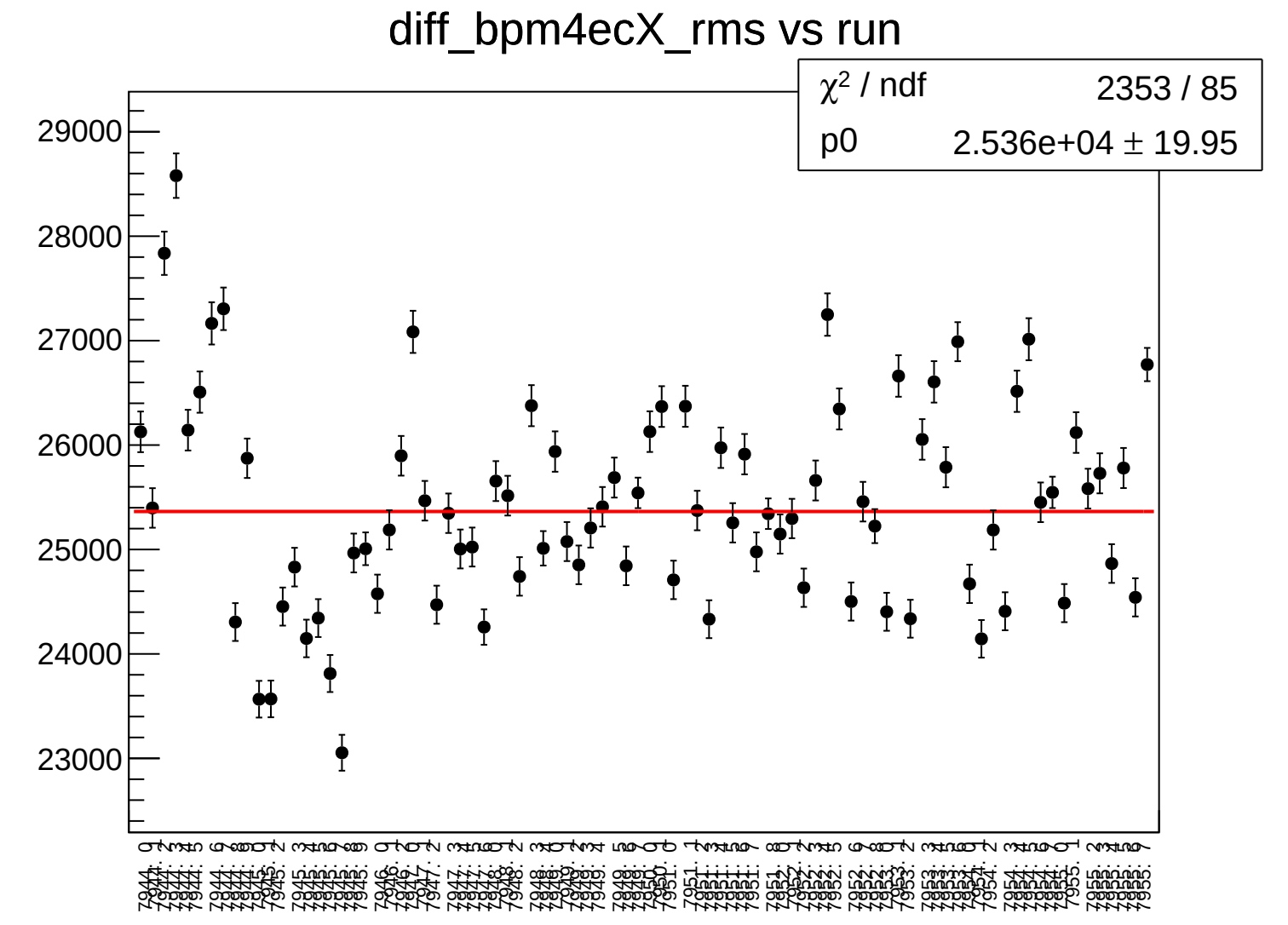

diff_bpm4acY_mean vs run
χ² / ndf 73.37 / 85
p0 14.55 ± 6.827
pull
Entries 86
Mean −118.3
Std Dev 0

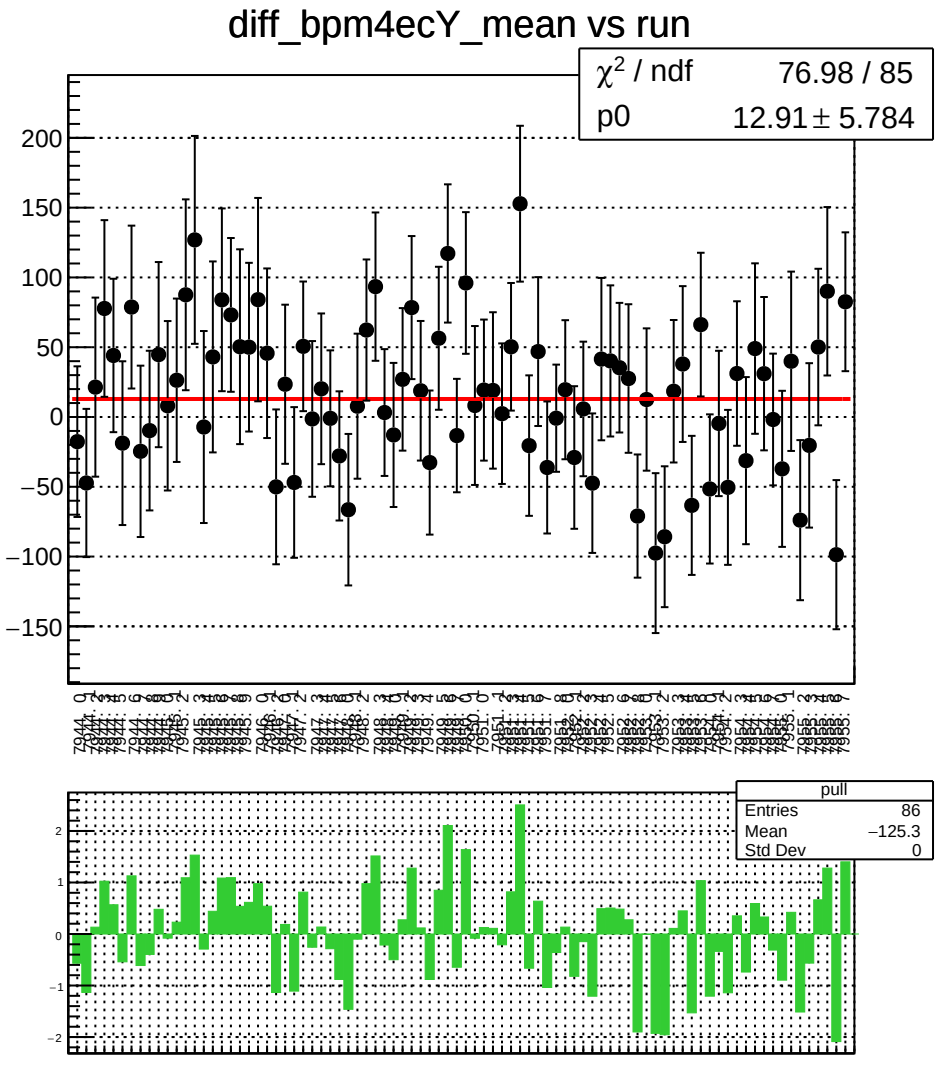

pull1D
Entries 86
Mean 0.02457
Std Dev 0.9233

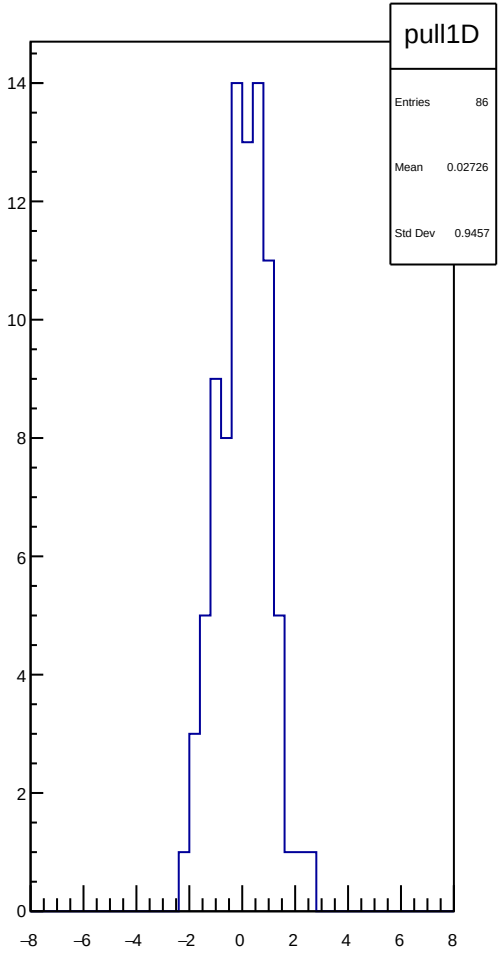

diff_bpm4acY_rms vs run
χ² / ndf 1.606e+04 / 85
p0 6113 ± 4.828
8000
7500
7000
6500
6000
5500
5000

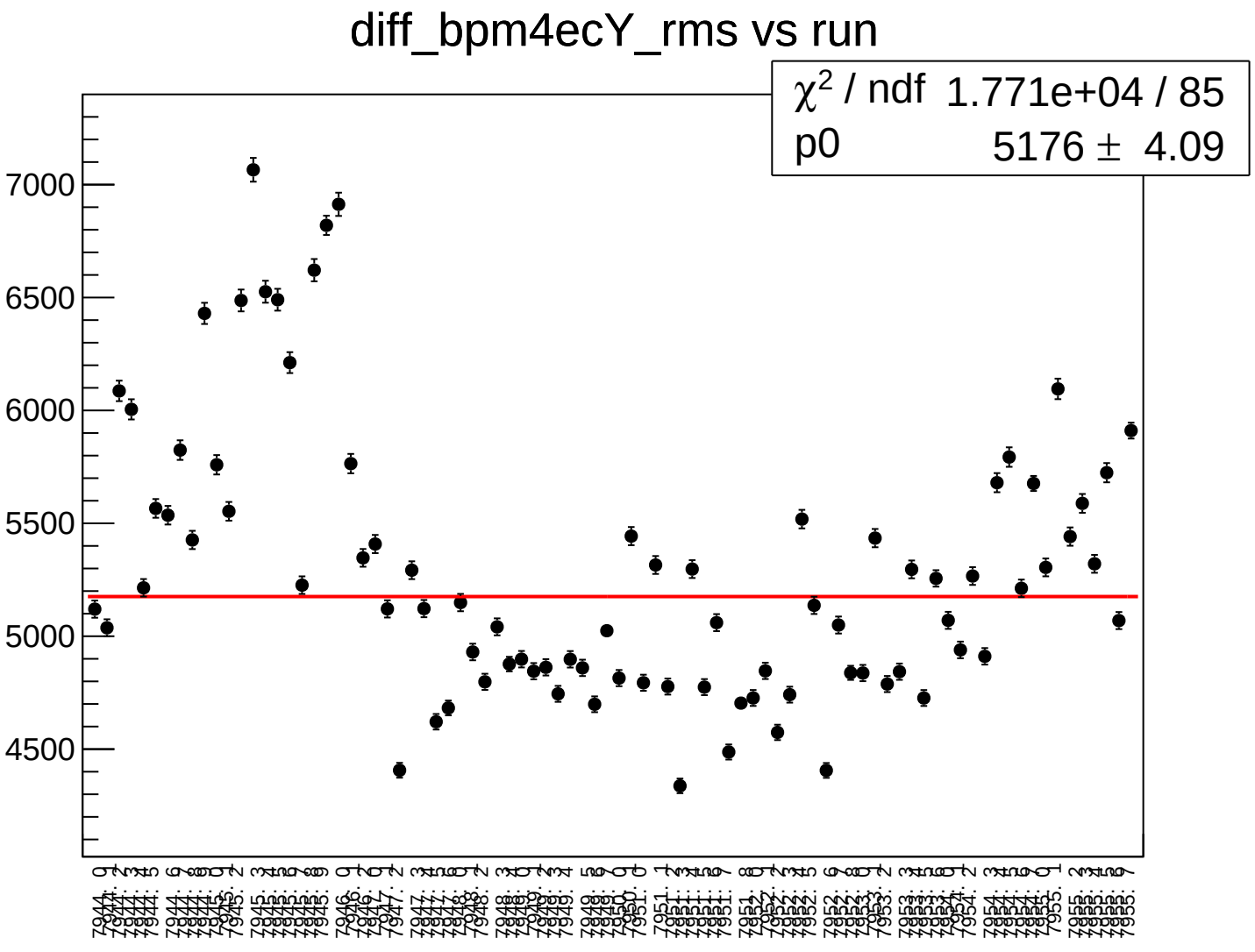

diff_bpm4ecX_mean vs run
χ² / ndf 90.37 / 85
p0 −4.891 ± 28.21
1000
500
0
−500
−1000
pull
Entries 86
Mean 755
Std Dev 0
2
1
0
−1
−2

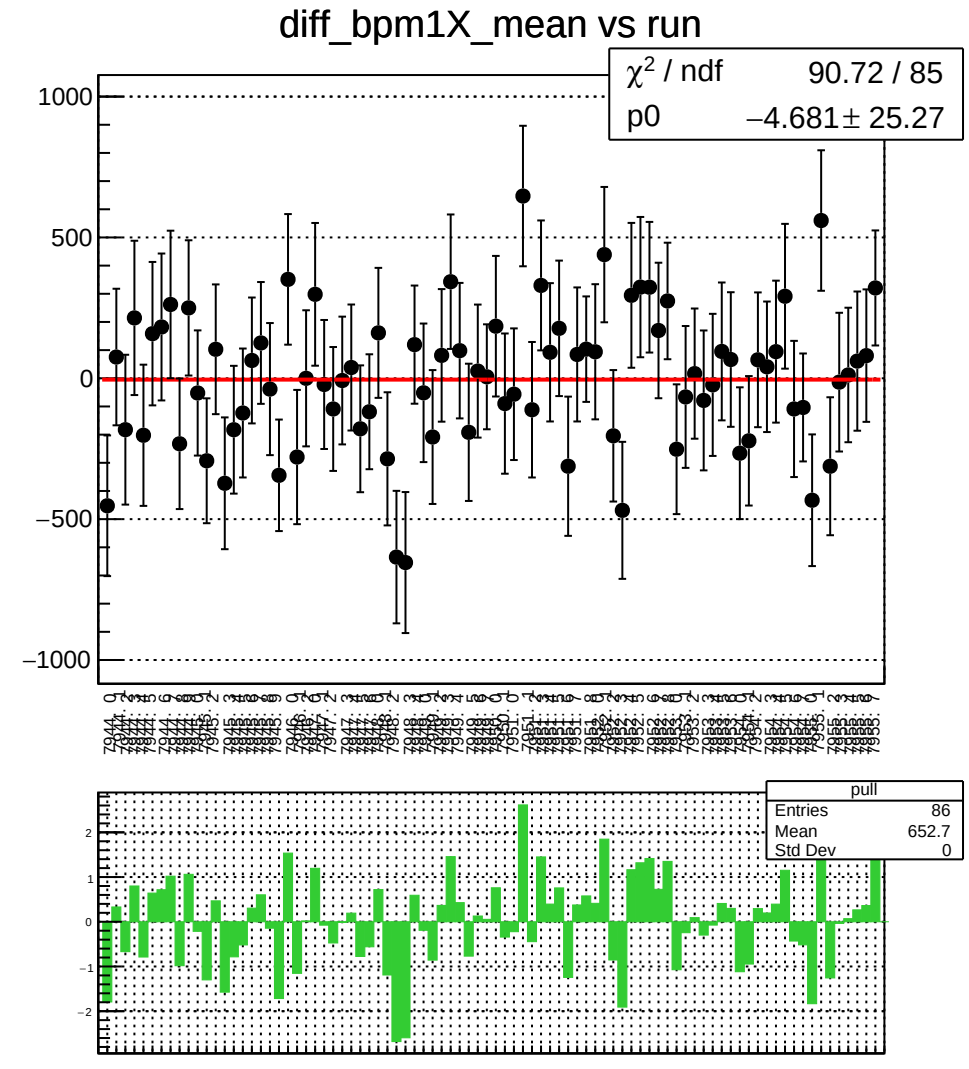

pull1D
Entries 86
Mean 0.005106
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

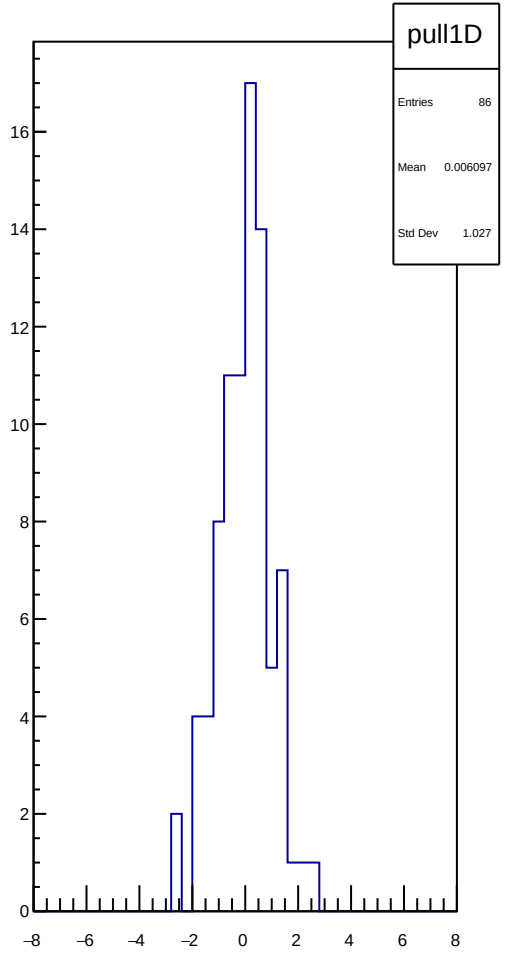

diff_bpm4ecX_rms vs run
χ² / ndf 2353 / 85
p0 2.536e+04 ± 19.95
29000
28000
27000
26000
25000
24000
23000


diff_bpm4ecY_mean vs run
χ^2 / ndf 76.98 / 85
p0 12.91 ± 5.784
pull
Entries 86
Mean −125.3
Std Dev 0

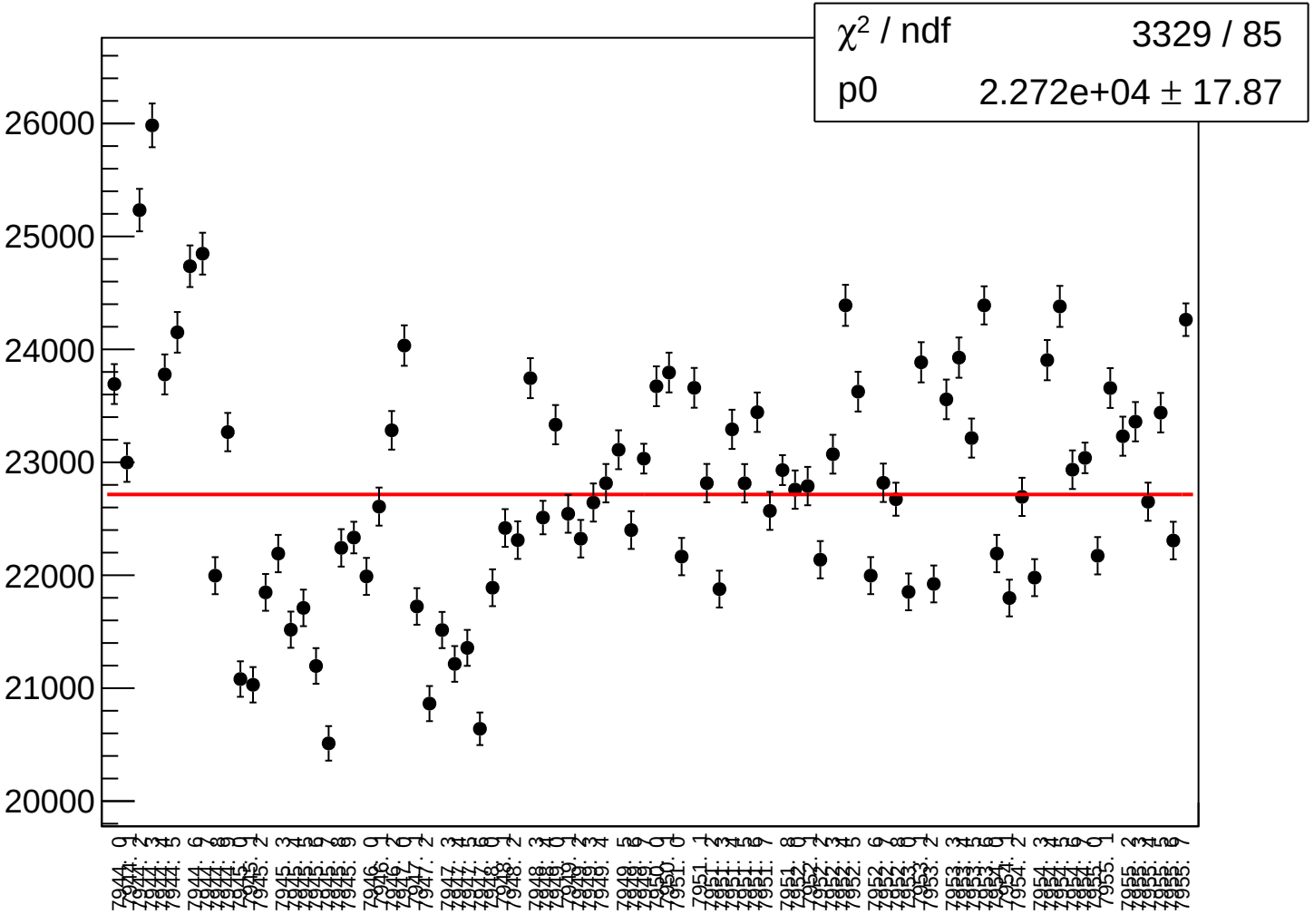

pull1D
Entries 86
Mean 0.02726
Std Dev 0.9457

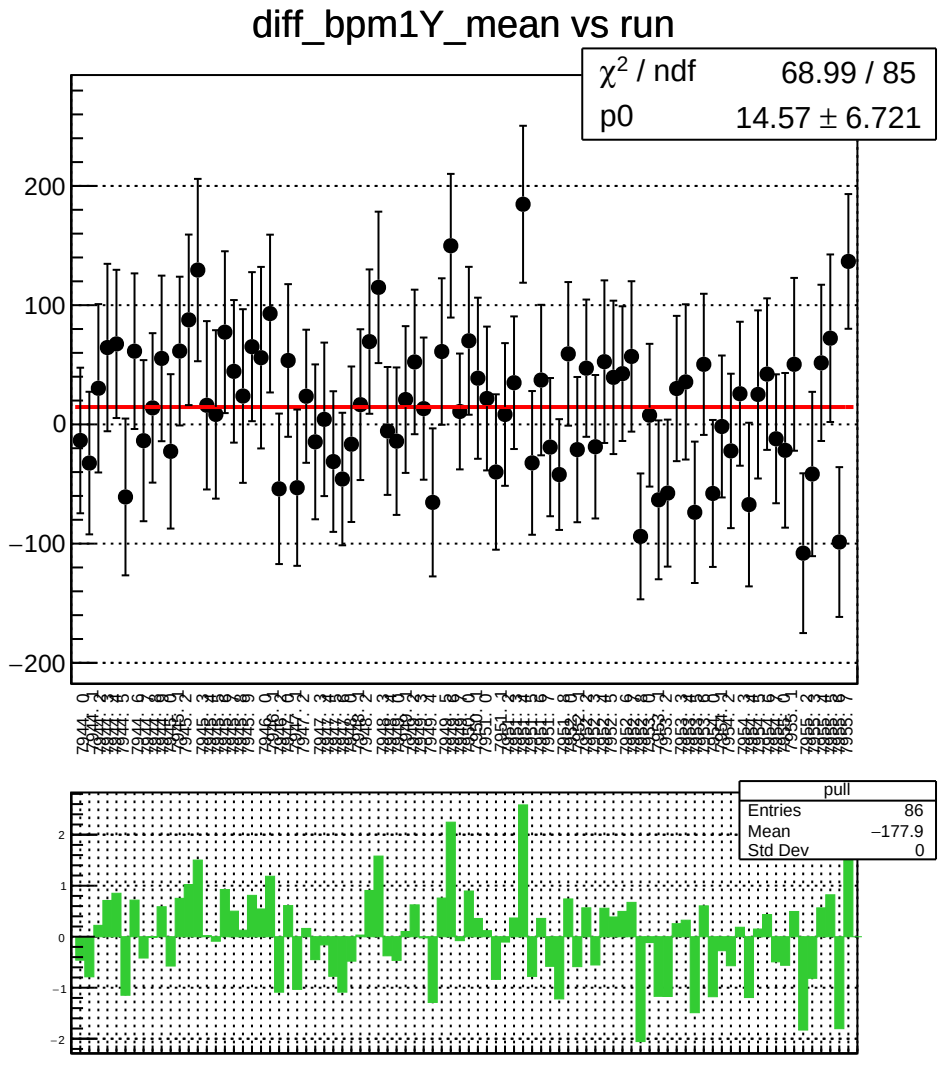

diff_bpm4ecY_rms vs run
χ² / ndf 1.771e+04 / 85
p0 5176 ± 4.09
7000
6500
6000
5500
5000
4500

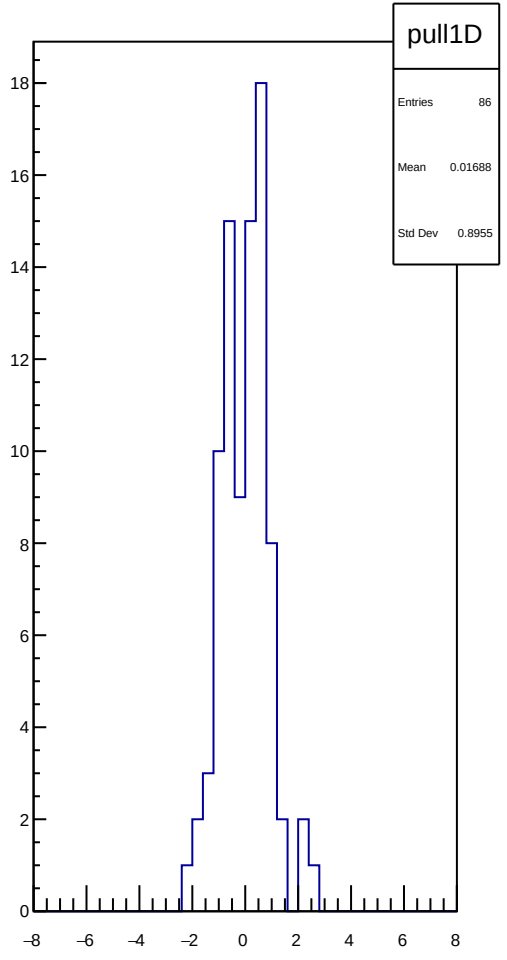

diff_bpm1X_mean vs run
χ² / ndf 90.72 / 85
p0 −4.681 ± 25.27
1000
500
0
−500
−1000
pull
Entries 86
Mean 652.7
Std Dev 0
2
1
0
−1
−2

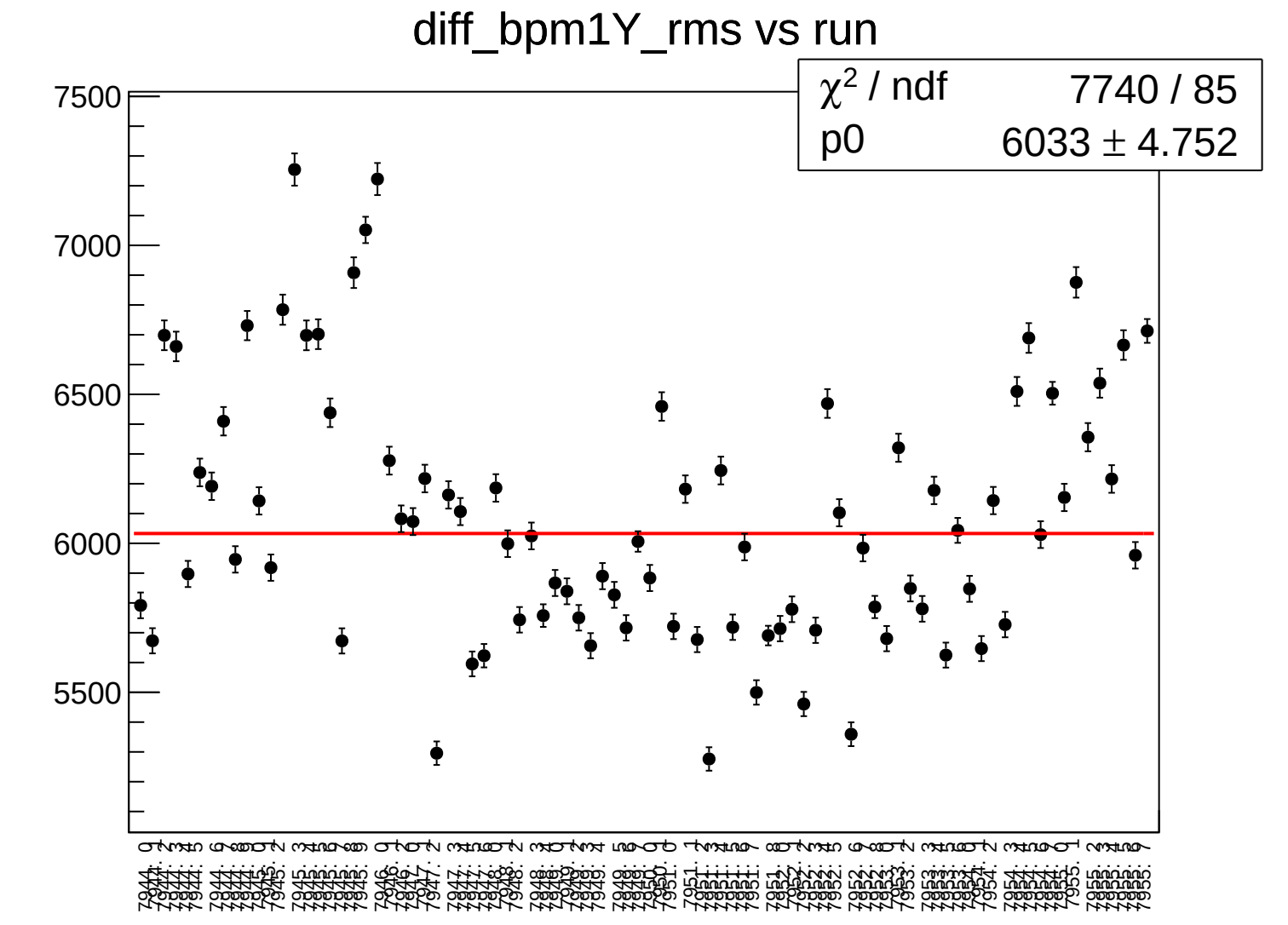

pull1D
Entries 86
Mean 0.006097
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

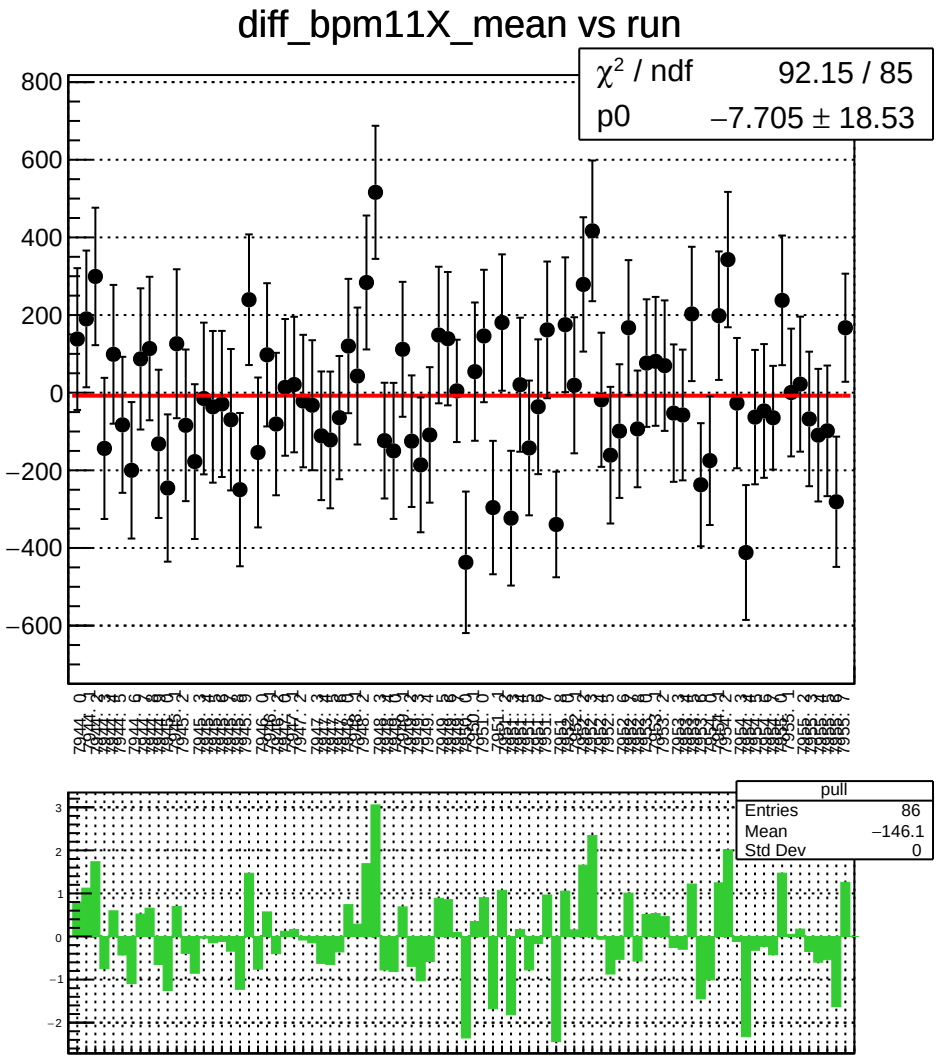
diff_bpm1X_rms vs run

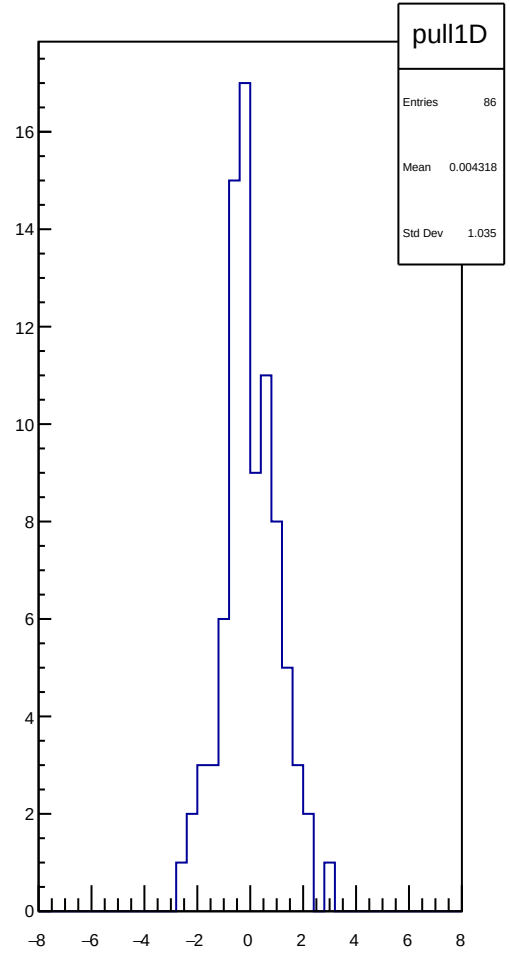



diff_bpm1Y_mean vs run
χ^2 / ndf 68.99 / 85
p0 14.57 ± 6.721
200
100
0
−100
−200
pull
Entries 86
Mean −177.9
Std Dev 0
2
1
0
−1
−2

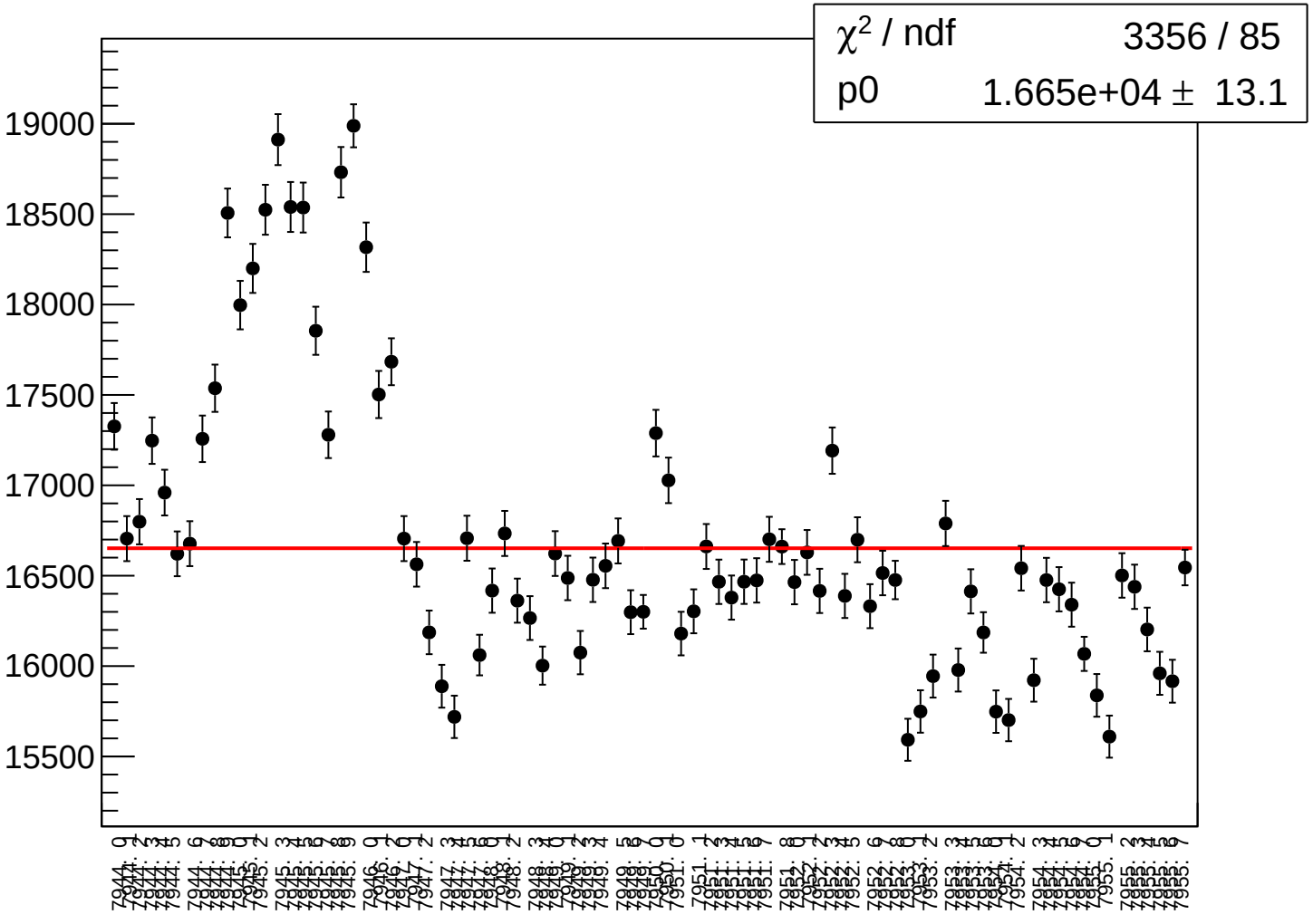

pull1D
Entries 86
Mean 0.01688
Std Dev 0.8955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

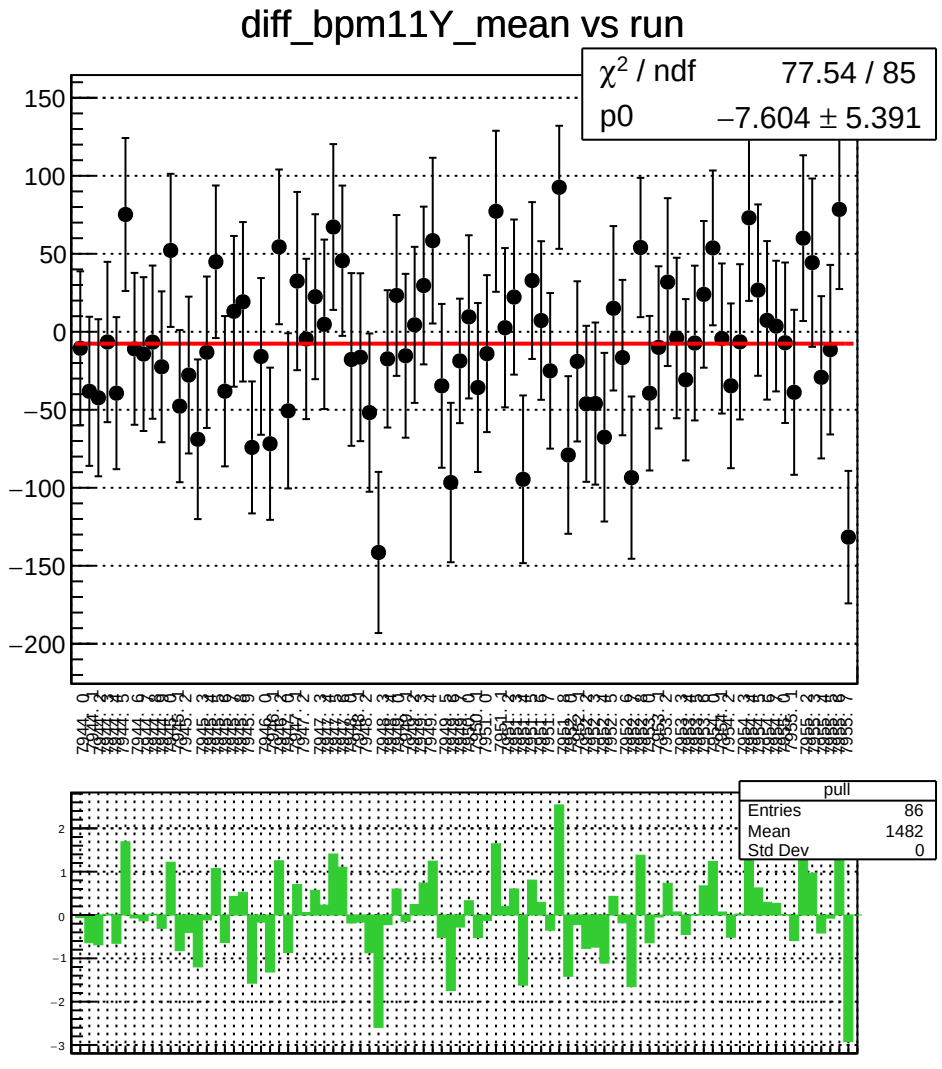

diff_bpm1Y_rms vs run
χ^2 / ndf 7740 / 85
p0 6033 ± 4.752
7500
7000
6500
6000
5500

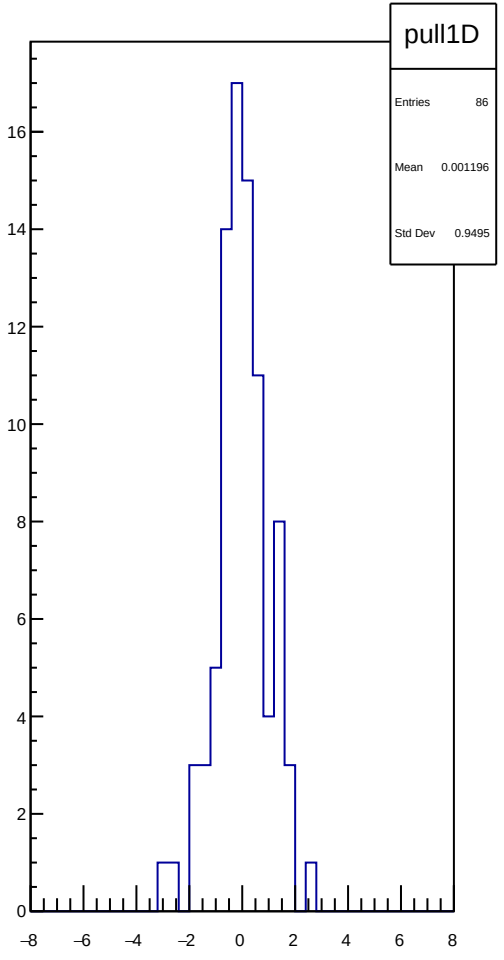

diff_bpm11X_mean vs run
χ^2 / ndf 92.15 / 85
p0 −7.705 ± 18.53
pull
Entries 86
Mean −146.1
Std Dev 0

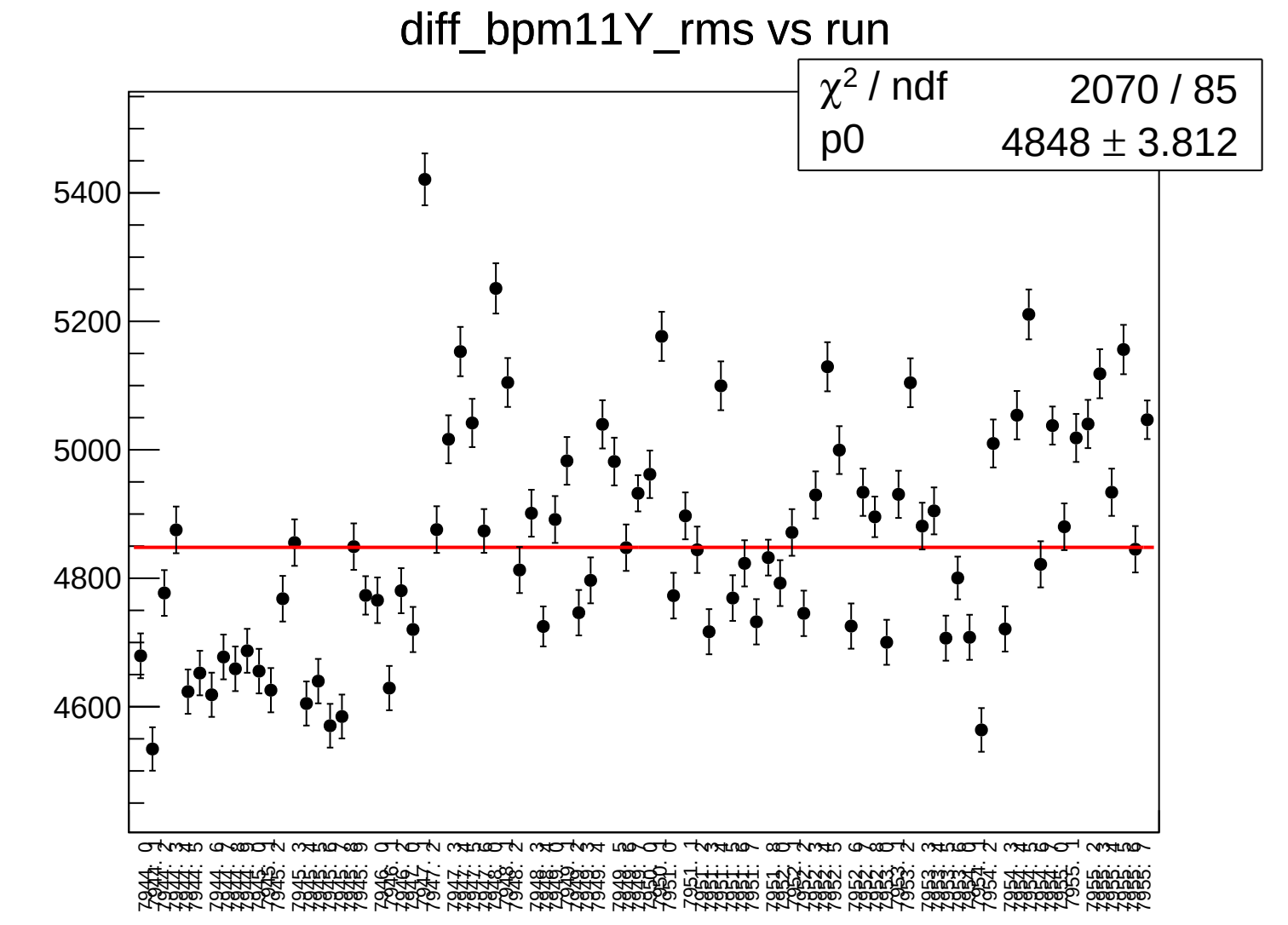

pull1D
Entries 86
Mean 0.004318
Std Dev 1.035

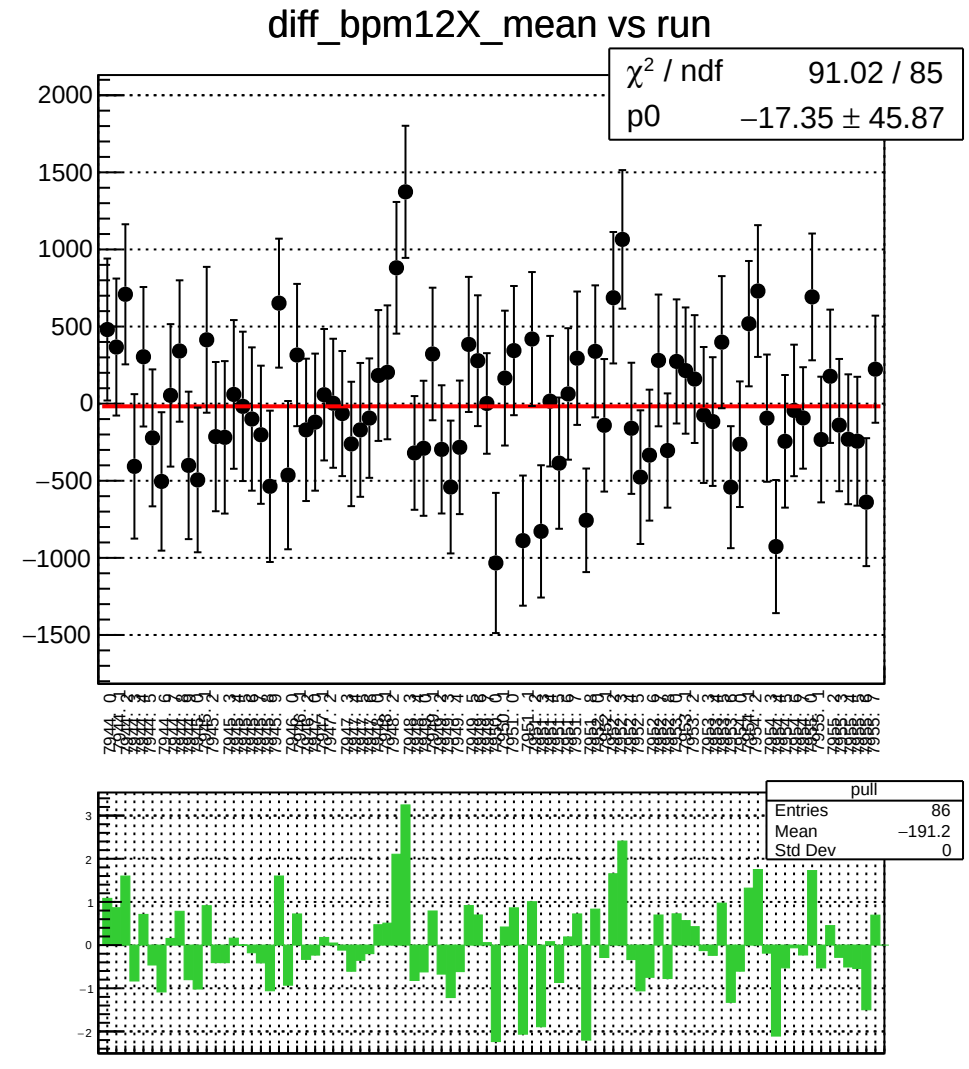
diff_bpm11X_rms vs run

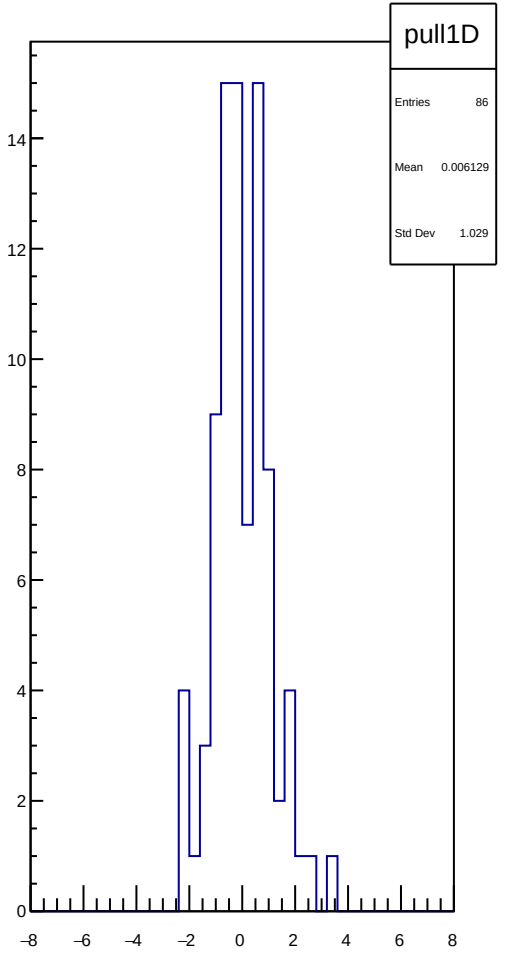



diff_bpm11Y_mean vs run
χ² / ndf 77.54 / 85
p0 −7.604 ± 5.391
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 1482
Std Dev 0
2
1
0
−1
−2
−3

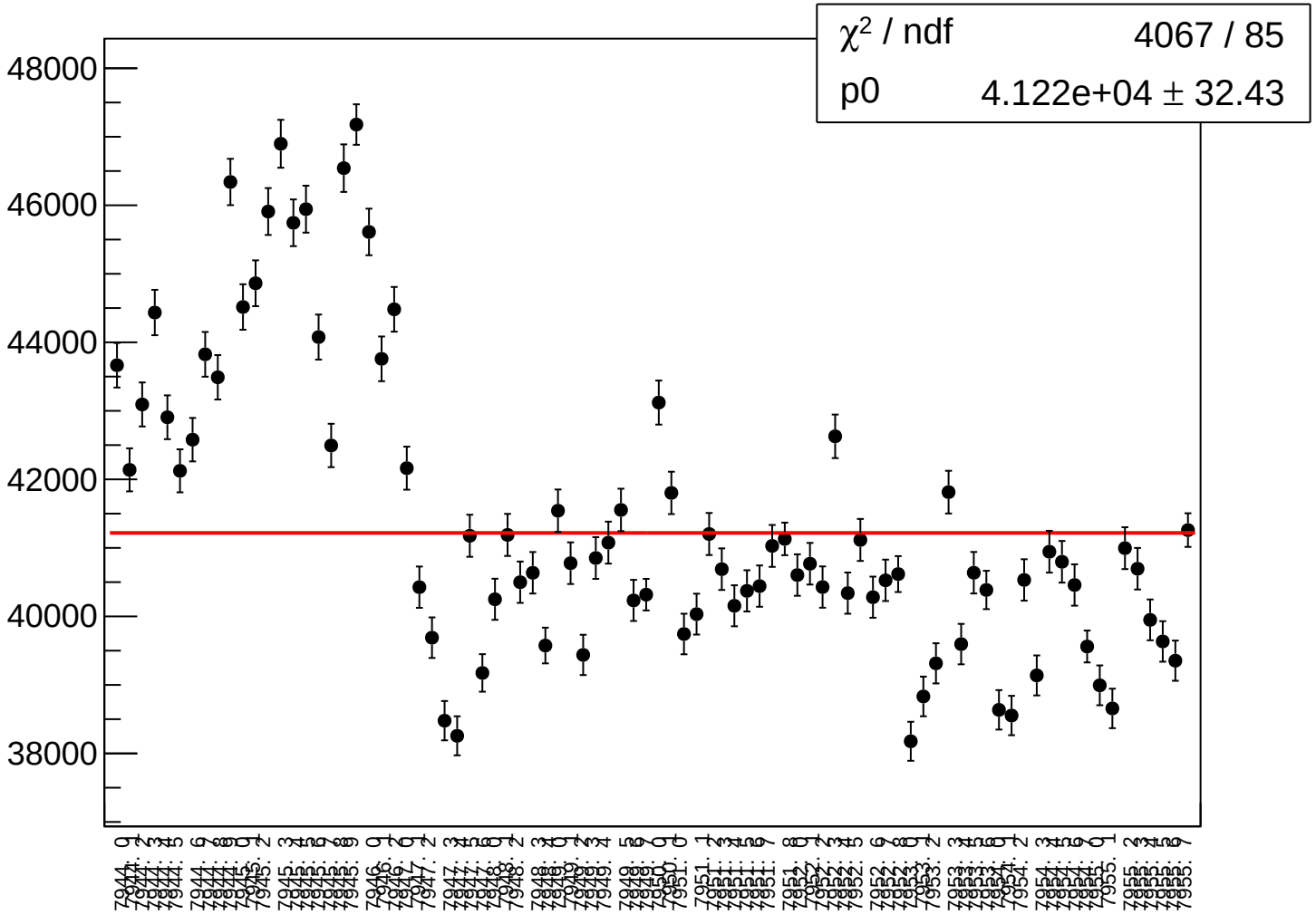

pull1D
Entries 86
Mean 0.001196
Std Dev 0.9495
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

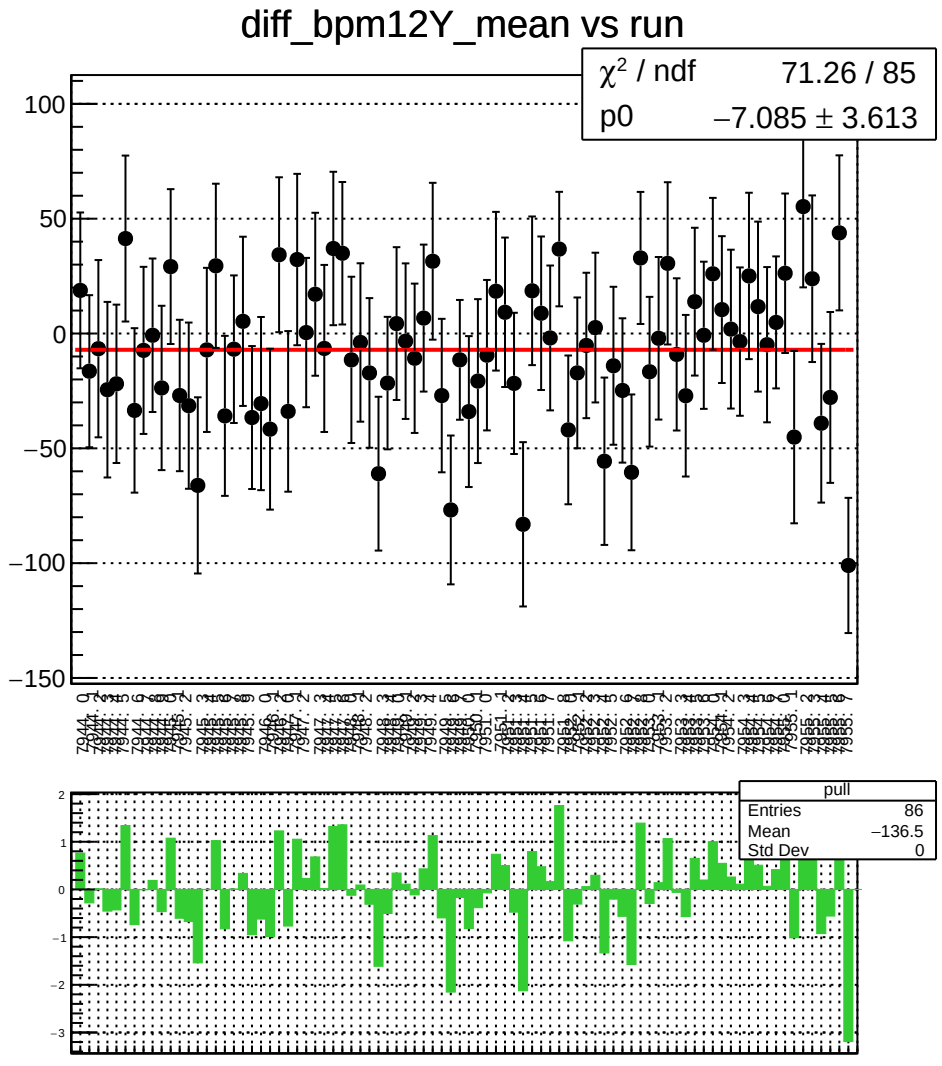

diff_bpm11Y_rms vs run
χ^2 / ndf 2070 / 85
p0 4848 ± 3.812
5400
5200
5000
4800
4600

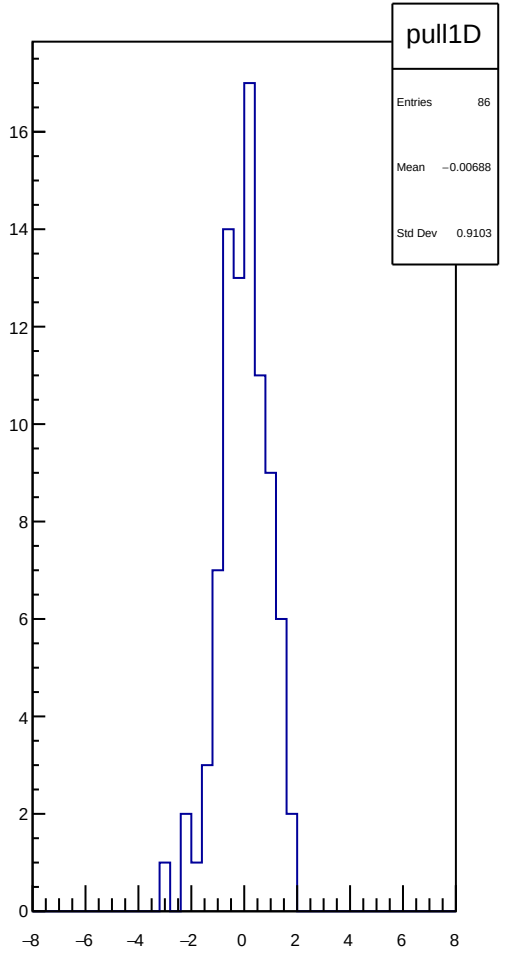

diff_bpm12X_mean vs run
χ² / ndf 91.02 / 85
p0 −17.35 ± 45.87
pull
Entries 86
Mean −191.2
Std Dev 0

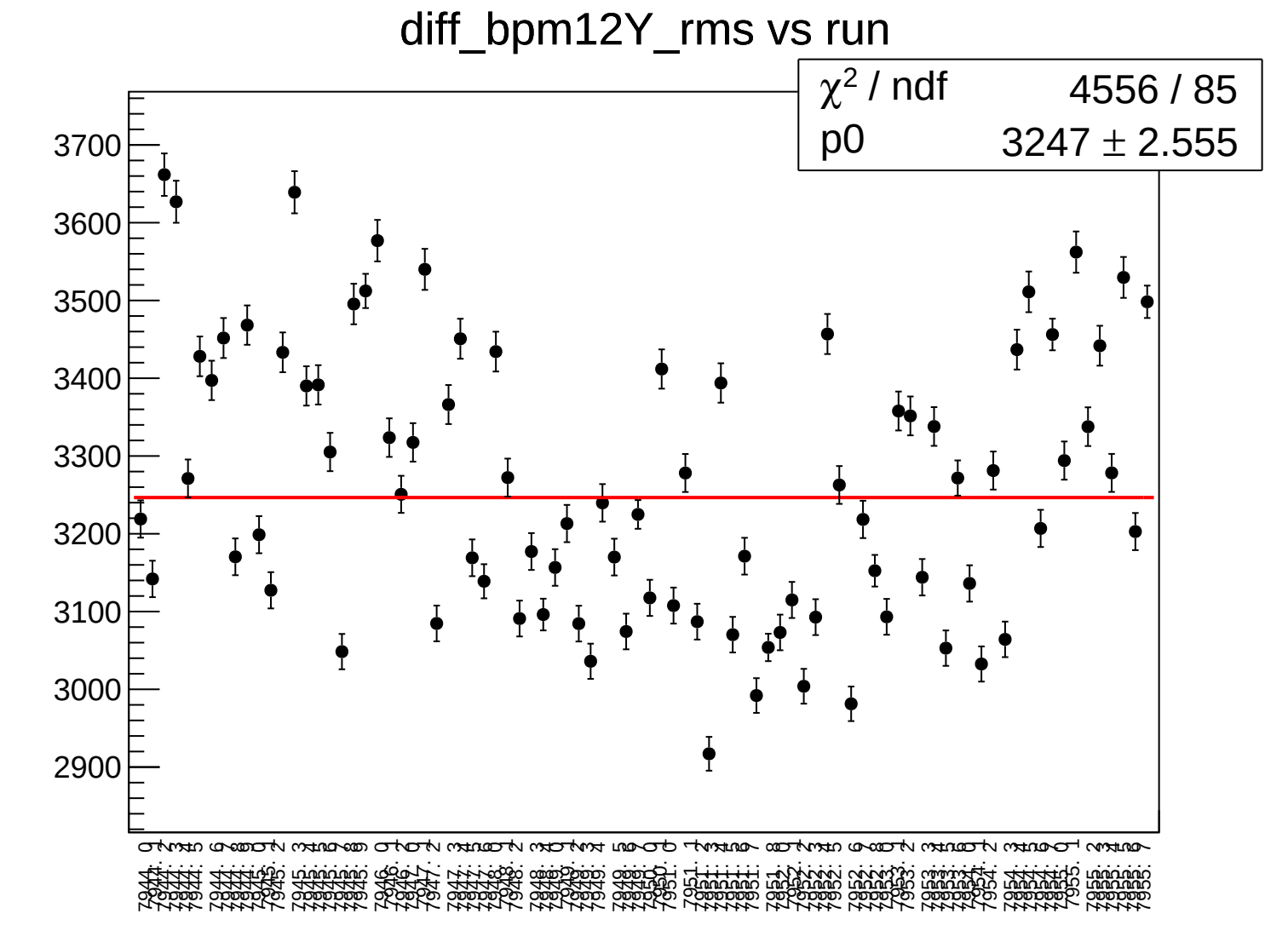

pull1D
Entries 86
Mean 0.006129
Std Dev 1.029

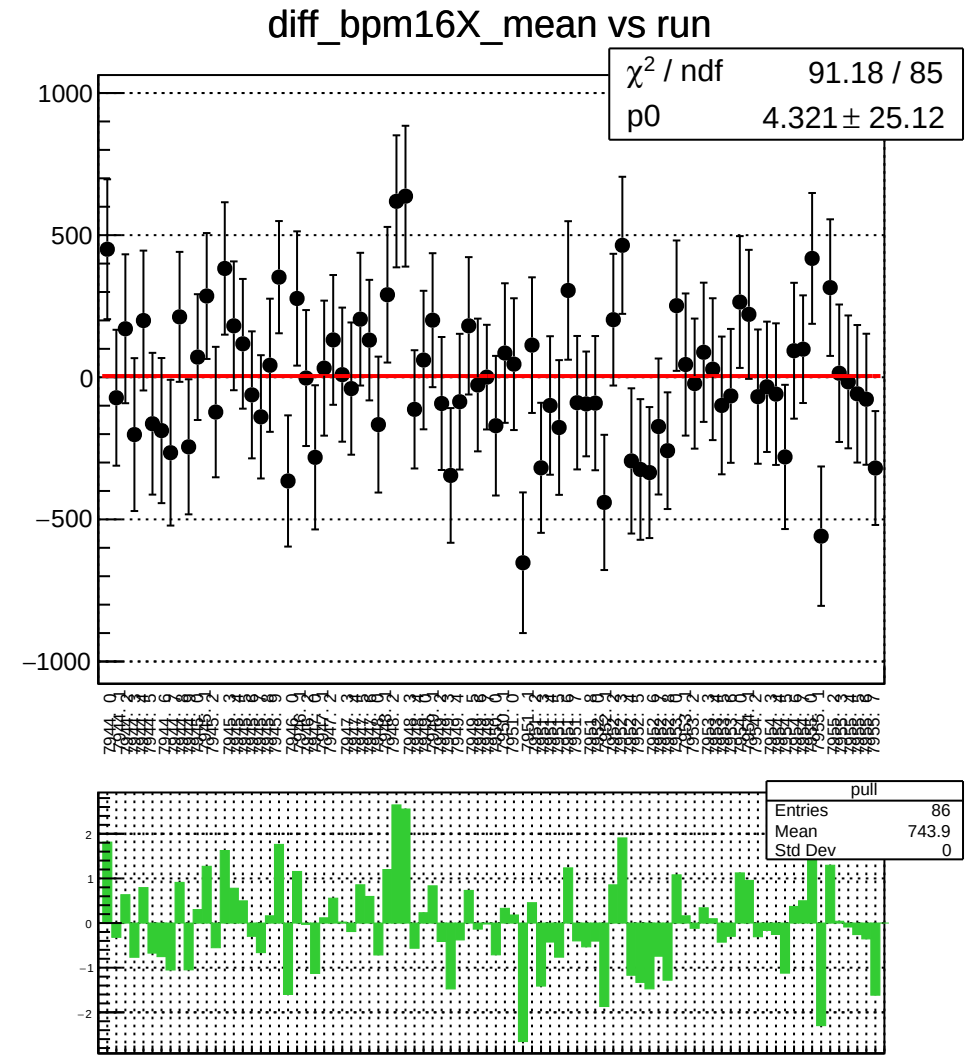
diff_bpm12X_rms vs run

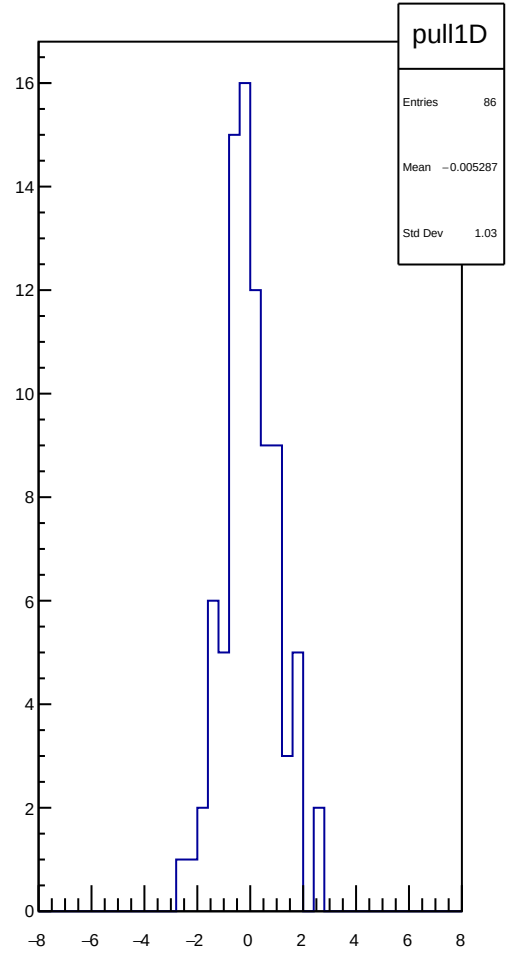



diff_bpm12Y_mean vs run
χ² / ndf 71.26 / 85
p0 −7.085 ± 3.613
100
50
0
−50
−100
−150
pull
Entries 86
Mean −136.5
Std Dev 0
2
1
0
−1
−2
−3

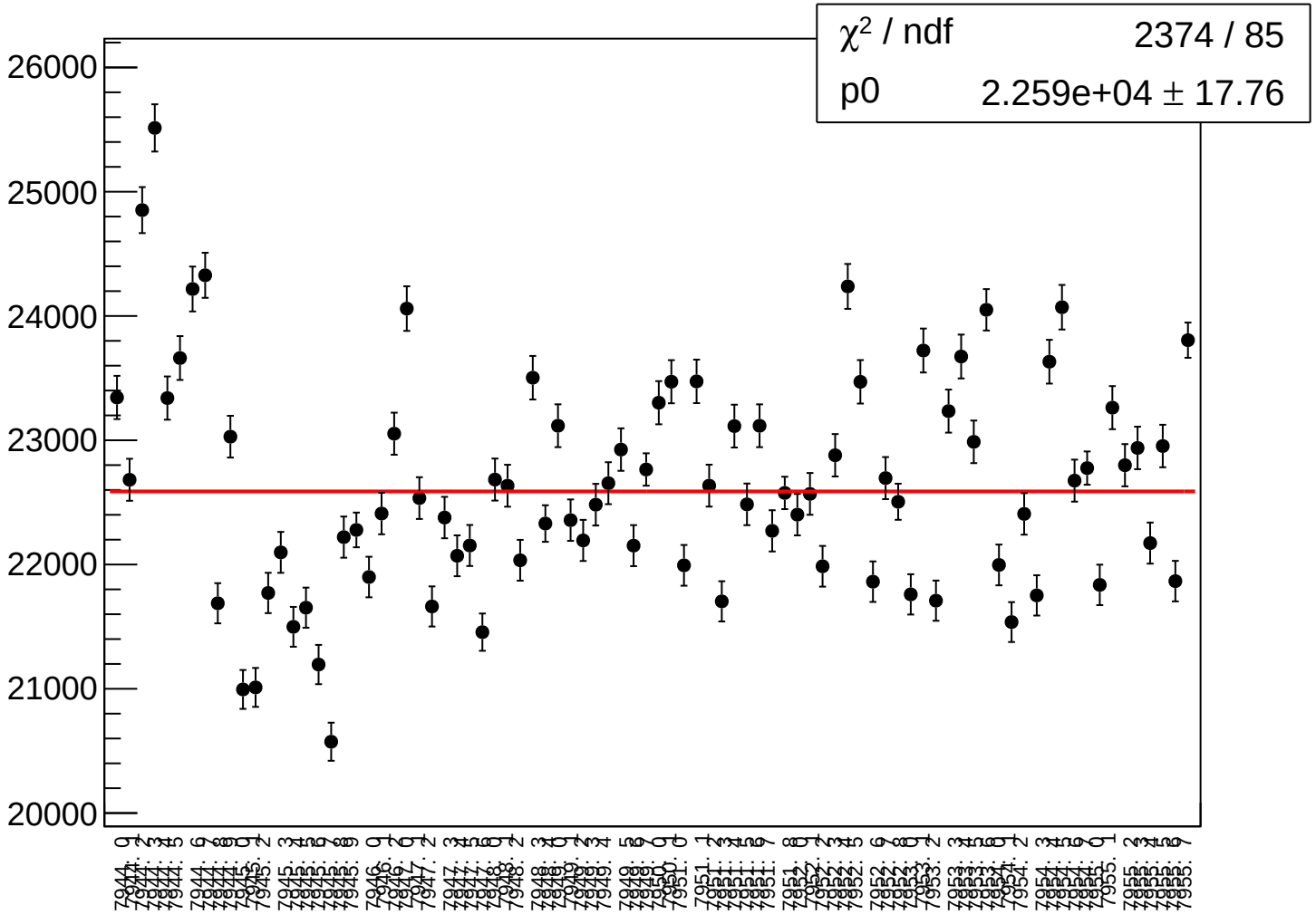

pull1D
Entries 86
Mean −0.00688
Std Dev 0.9103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

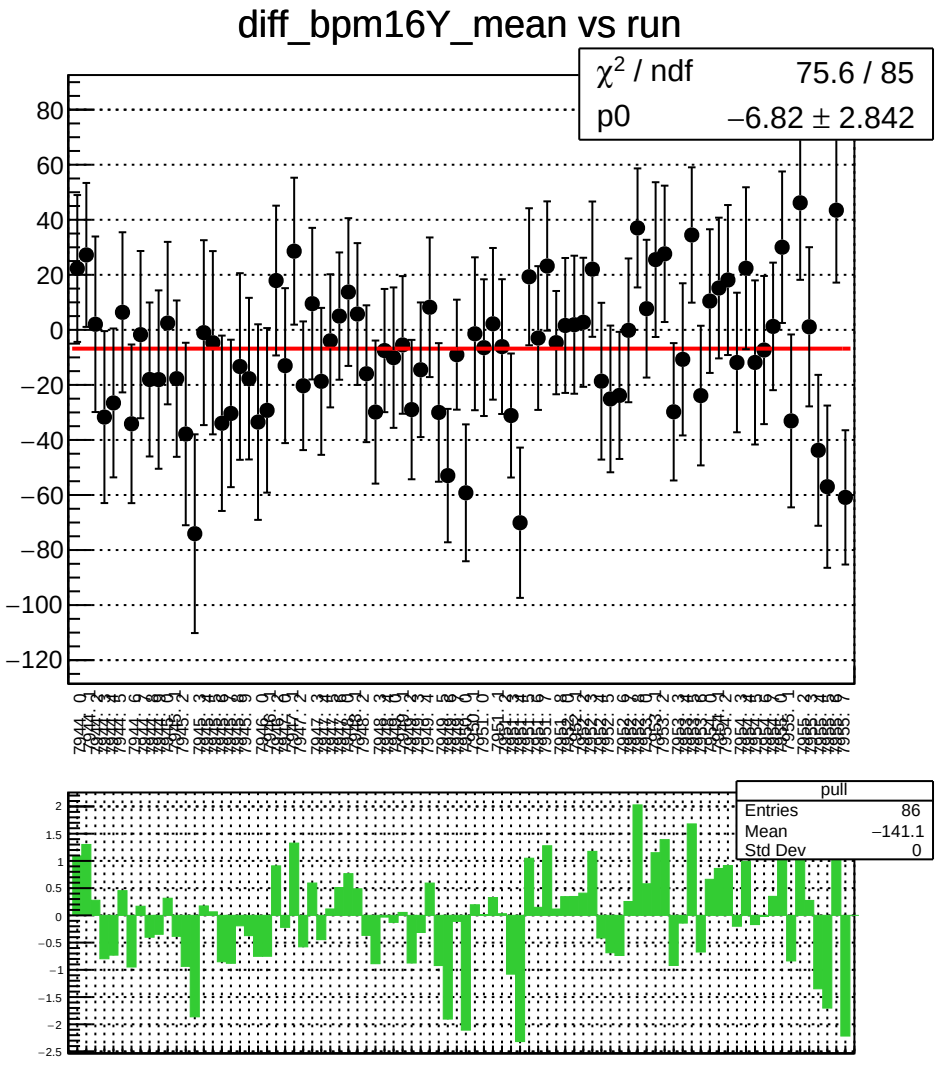

diff_bpm12Y_rms vs run
χ² / ndf 4556 / 85
p0 3247 ± 2.555
3700
3600
3500
3400
3300
3200
3100
3000
2900

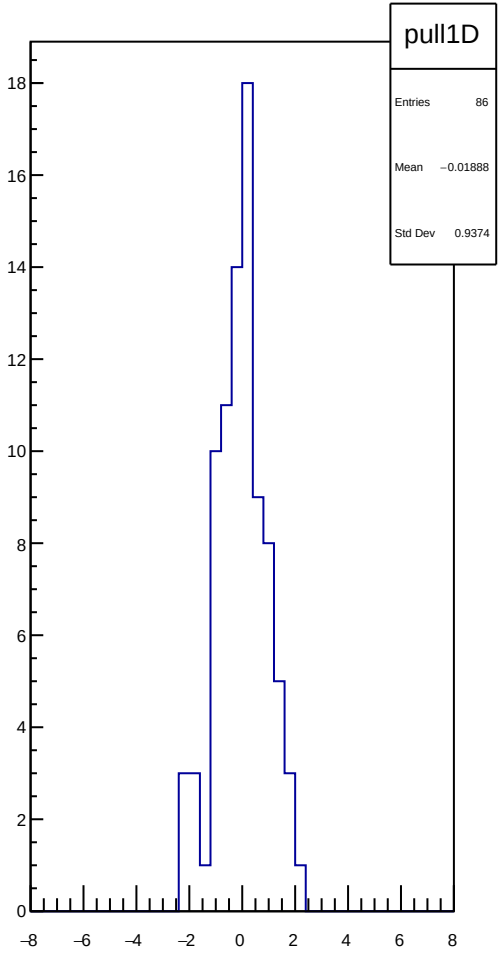

diff_bpm16X_mean vs run
χ^2 / ndf 91.18 / 85
p0 4.321 ± 25.12
1000
500
0
−500
−1000
pull
Entries 86
Mean 743.9
Std Dev 0
2
1
0
−1
−2

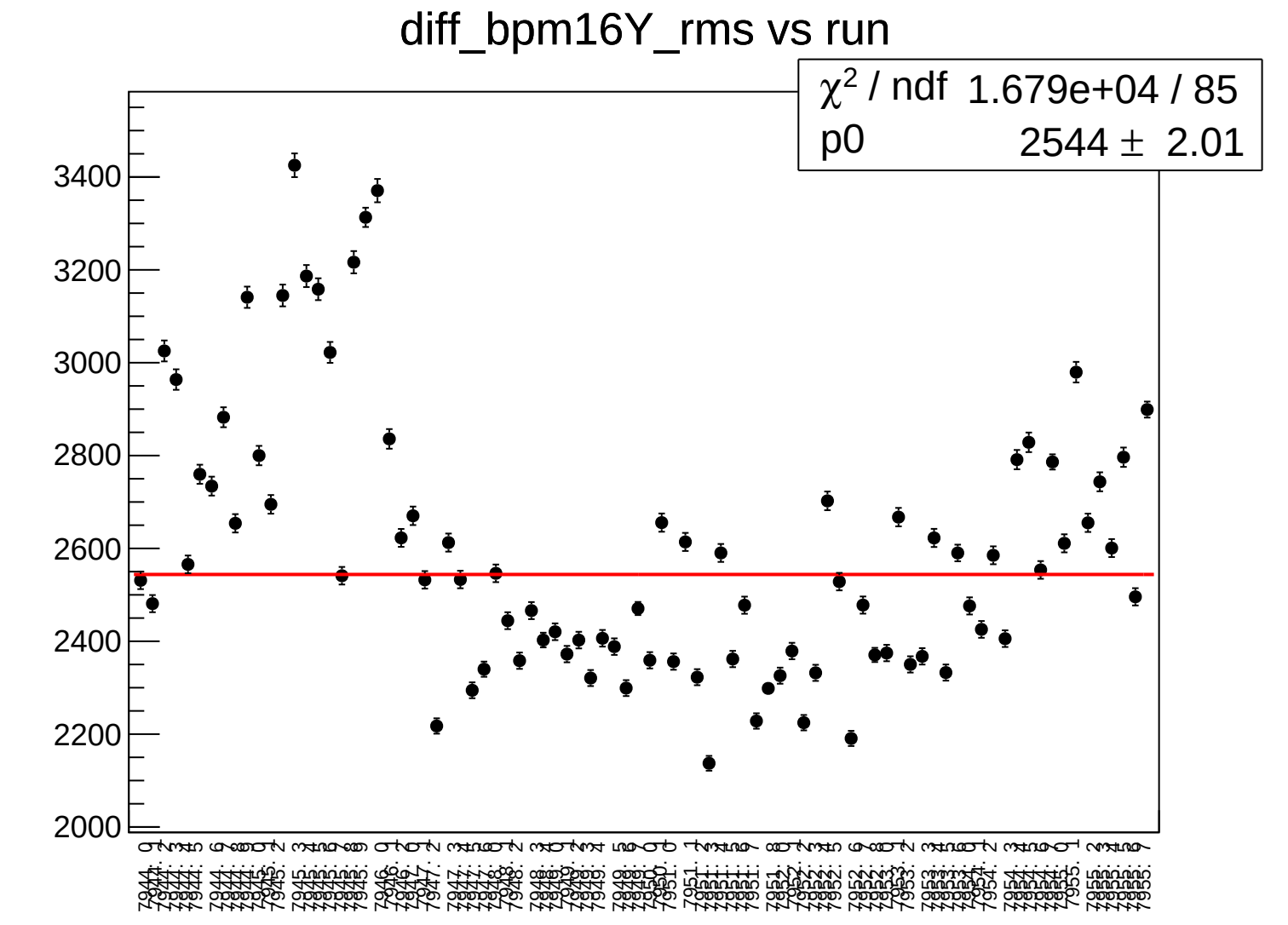

pull1D
Entries 86
Mean −0.005287
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

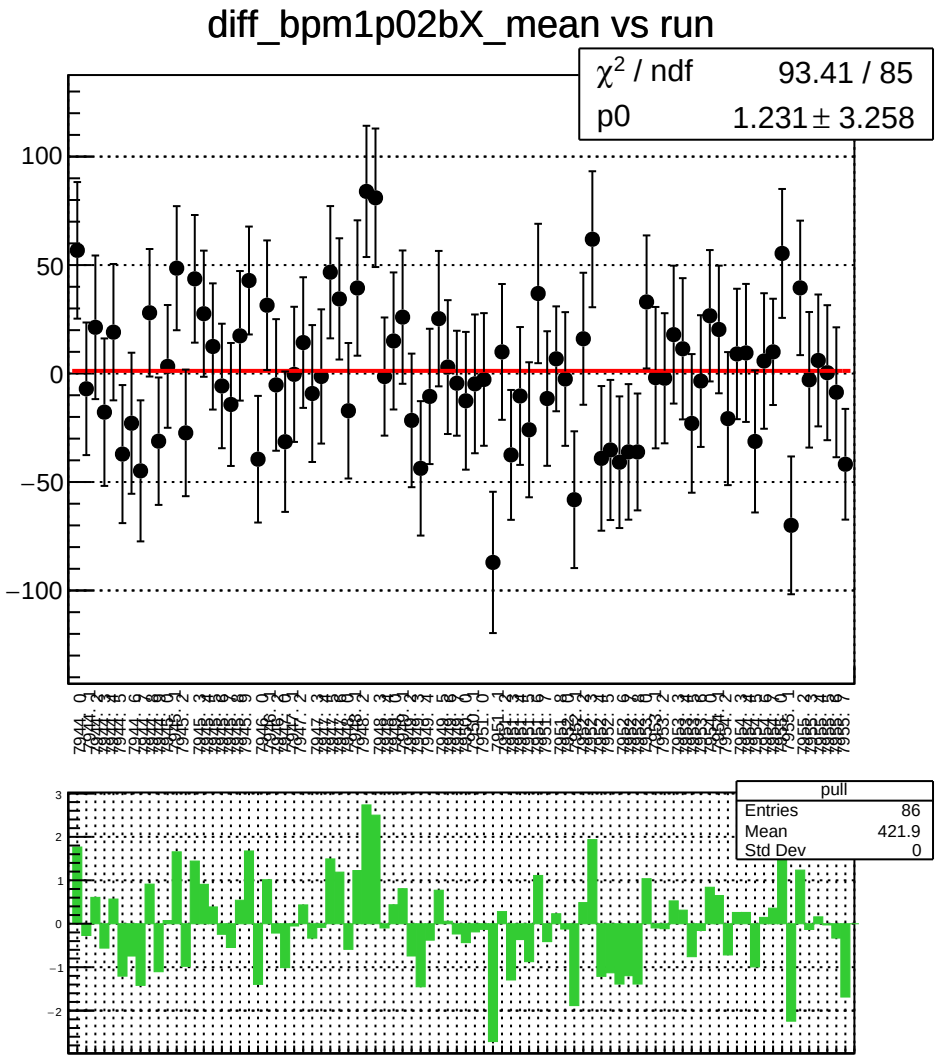
diff_bpm16X_rms vs run

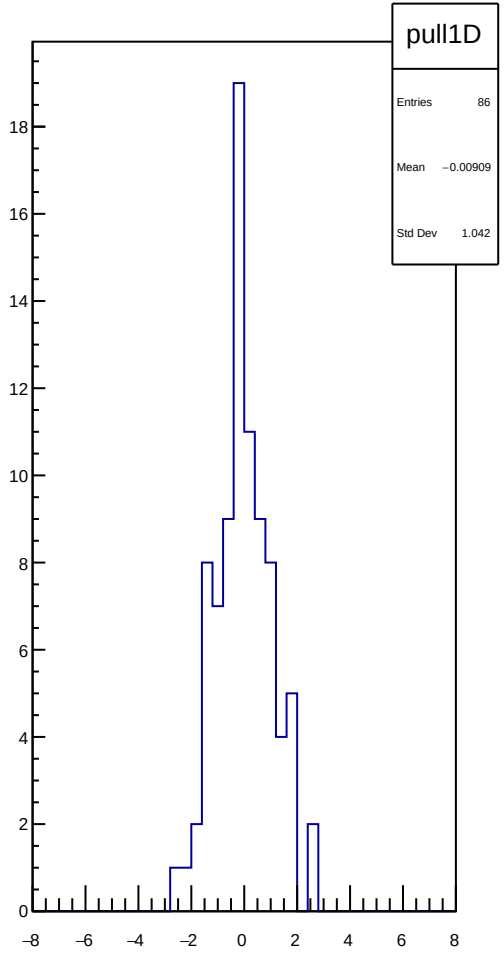


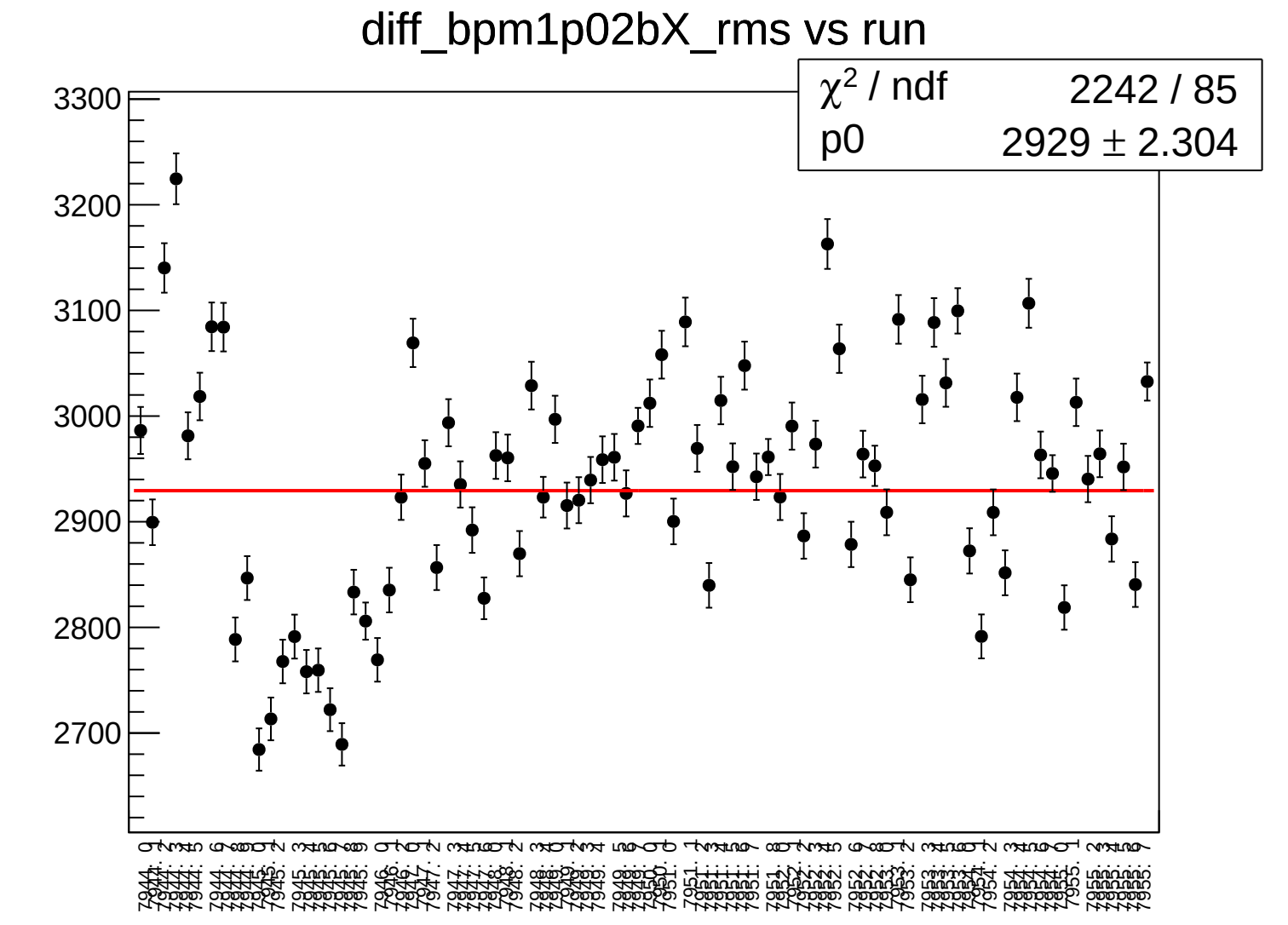

diff_bpm16Y_mean vs run
χ² / ndf 75.6 / 85
p0 −6.82 ± 2.842
pull
Entries 86
Mean −141.1
Std Dev 0

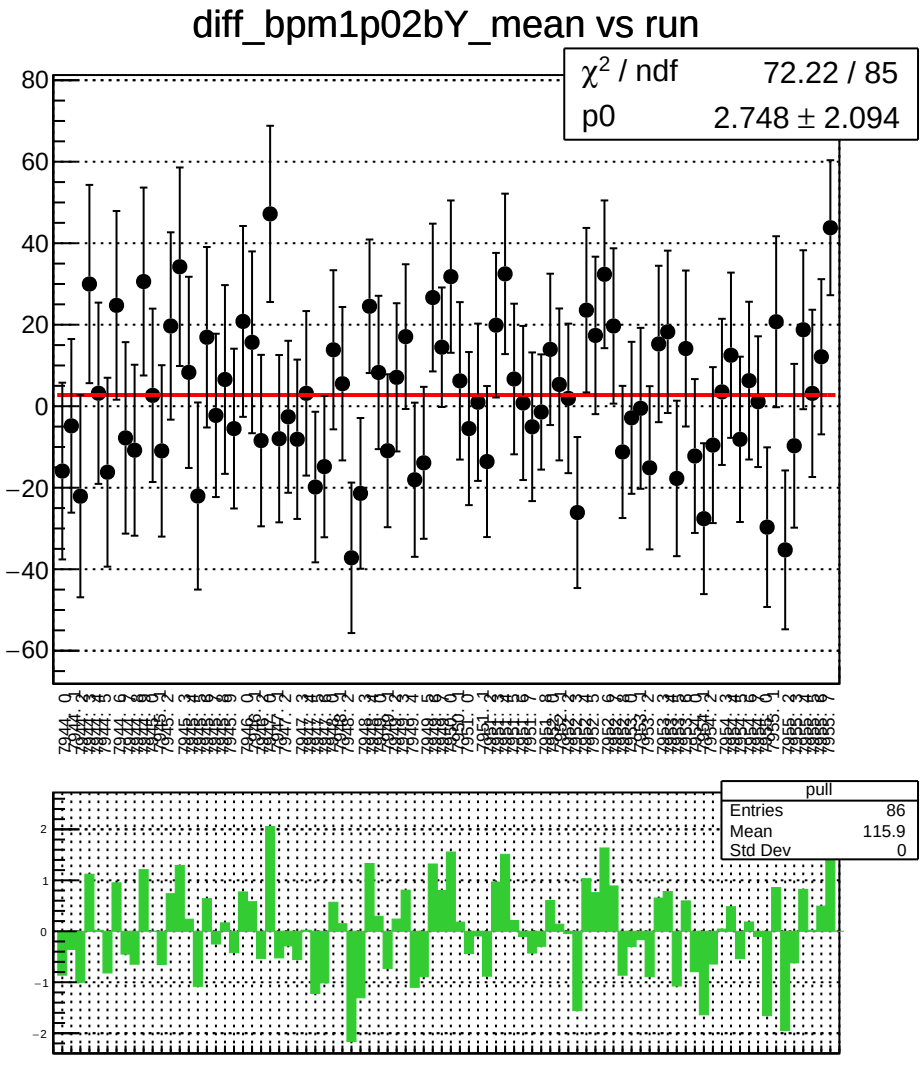

pull1D
Entries 86
Mean −0.01888
Std Dev 0.9374

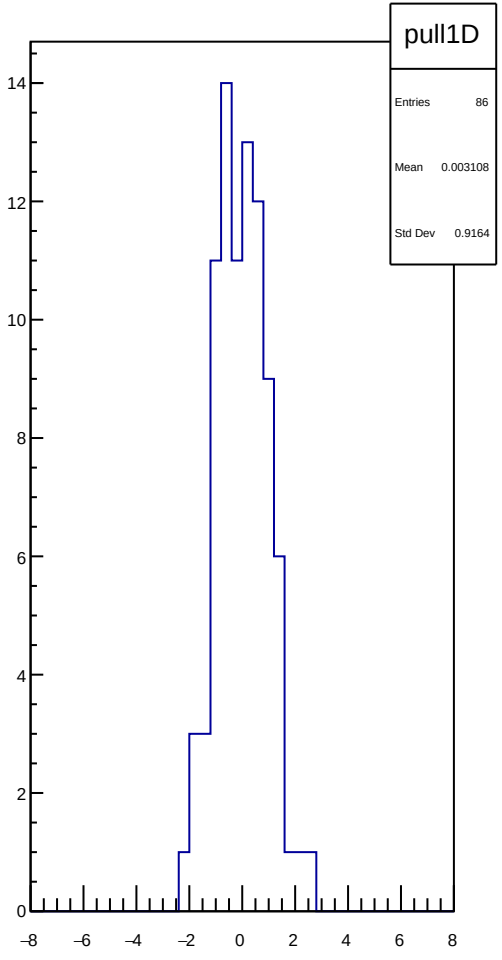

diff_bpm16Y_rms vs run
χ² / ndf 1.679e+04 / 85
p0 2544 ± 2.01
3400
3200
3000
2800
2600
2400
2200
2000

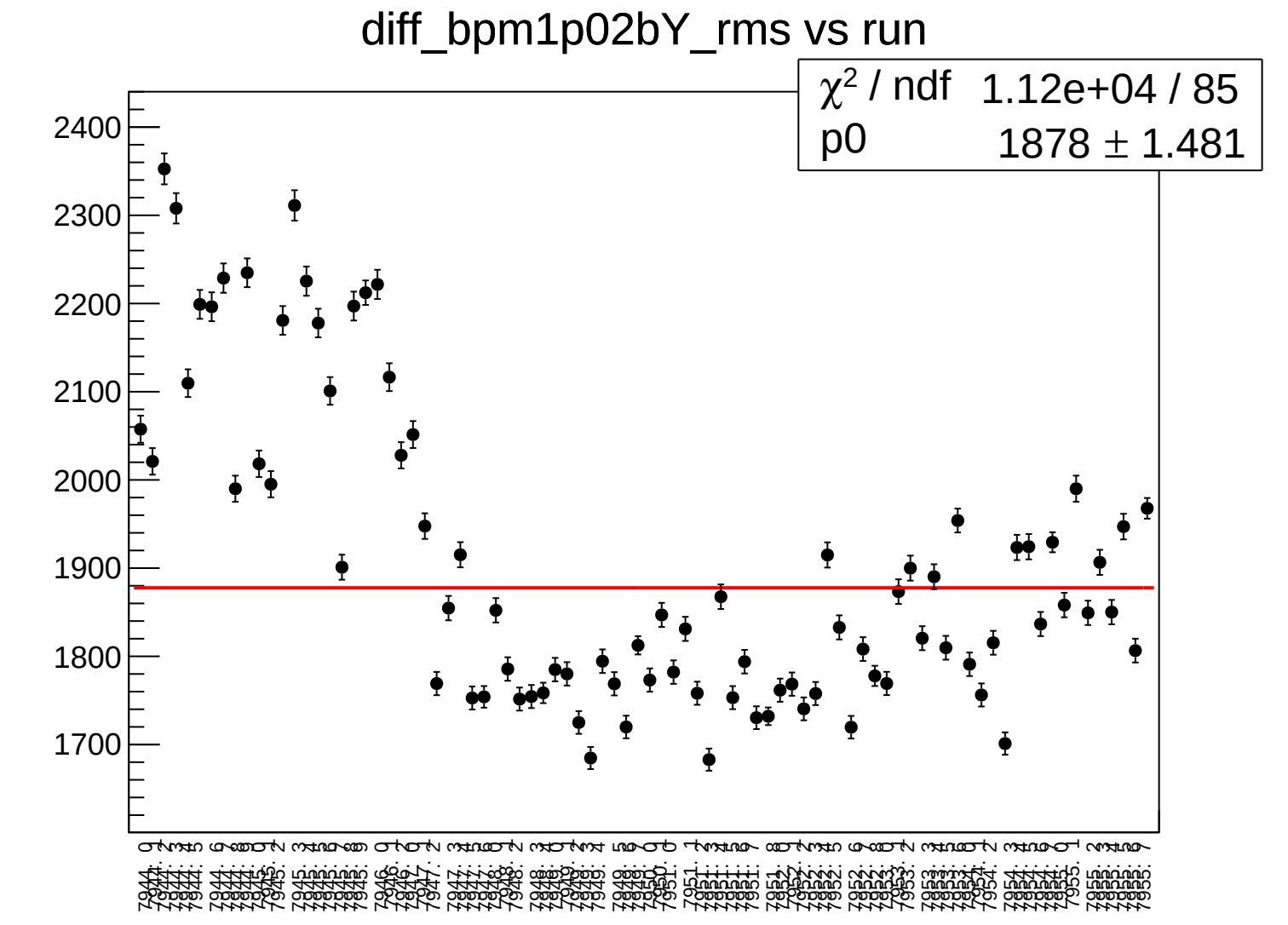

diff_bpm1p02bX_mean vs run
χ² / ndf 93.41 / 85
p0 1.231 ± 3.258
100
50
0
−50
−100
pull
Entries 86
Mean 421.9
Std Dev 0
3
2
1
0
−1
−2

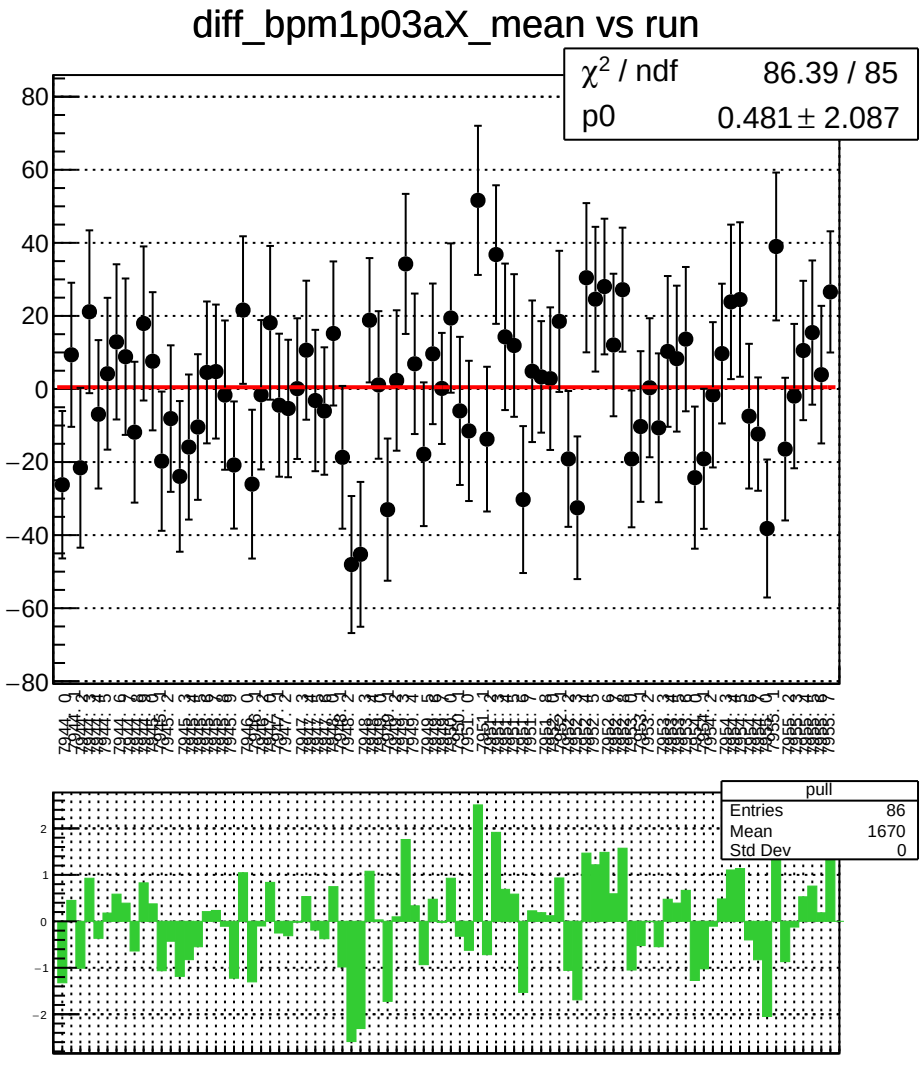

pull1D
Entries 86
Mean −0.00909
Std Dev 1.042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

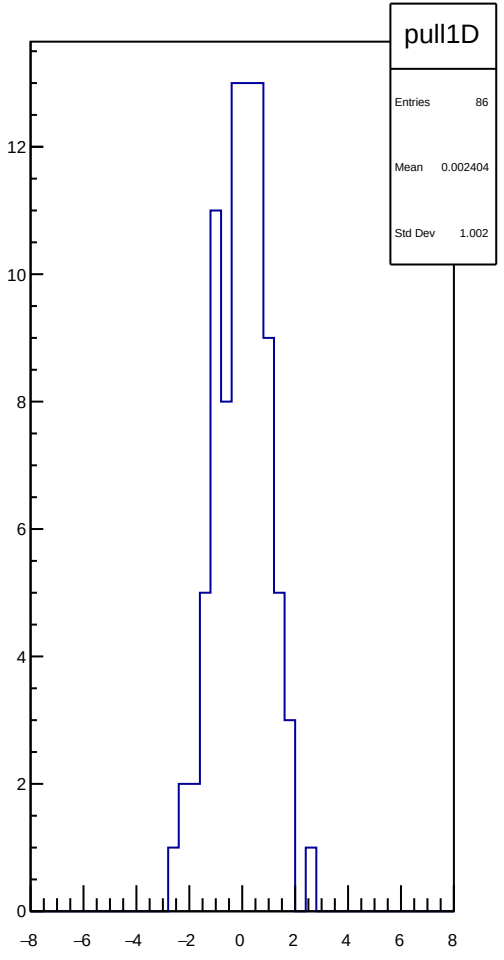

diff_bpm1p02bX_rms vs run
χ² / ndf 2242 / 85
p0 2929 ± 2.304
3300
3200
3100
3000
2900
2800
2700

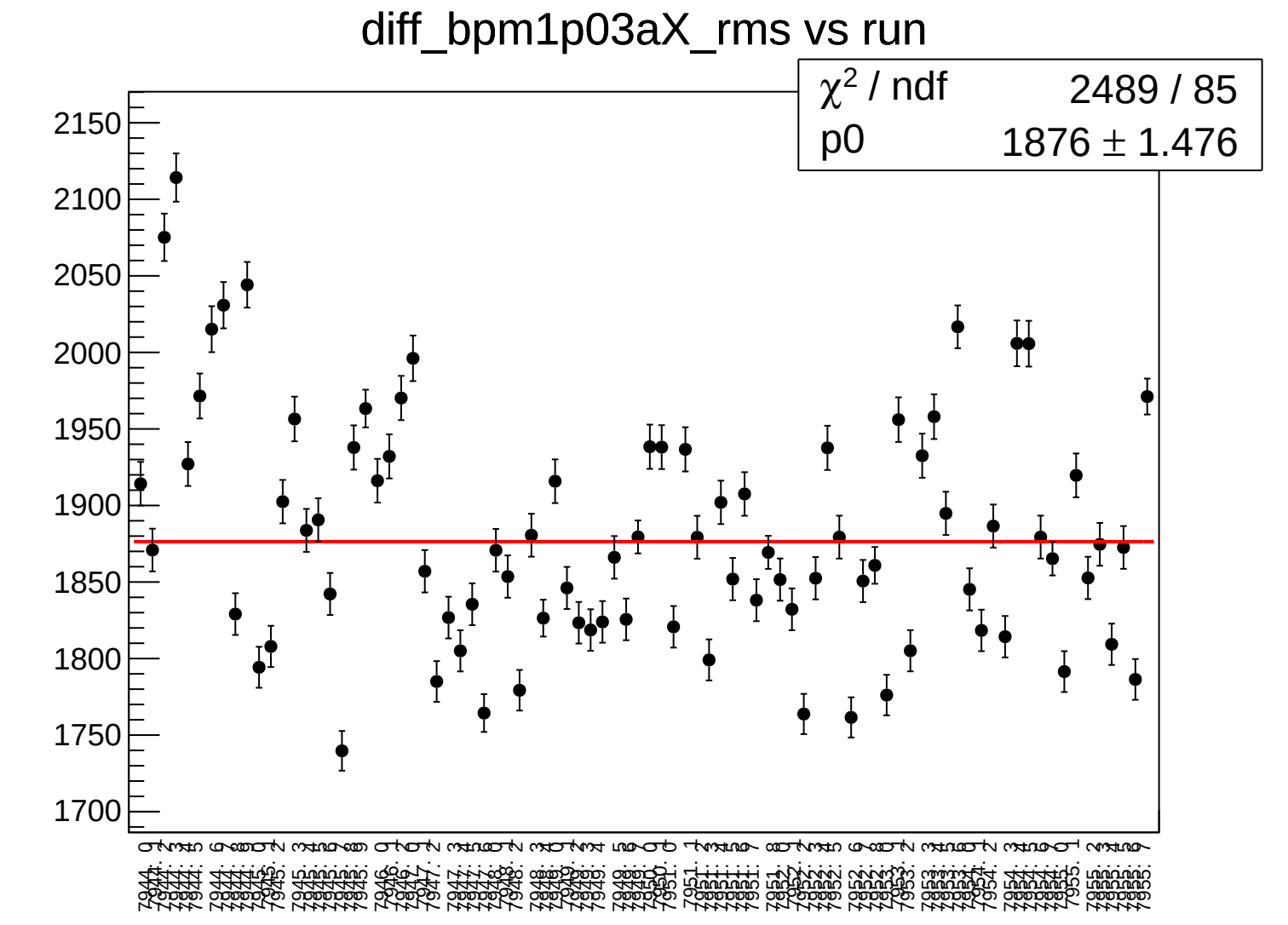

diff_bpm1p02bY_mean vs run
χ² / ndf 72.22 / 85
p0 2.748 ± 2.094
pull
Entries 86
Mean 115.9
Std Dev 0

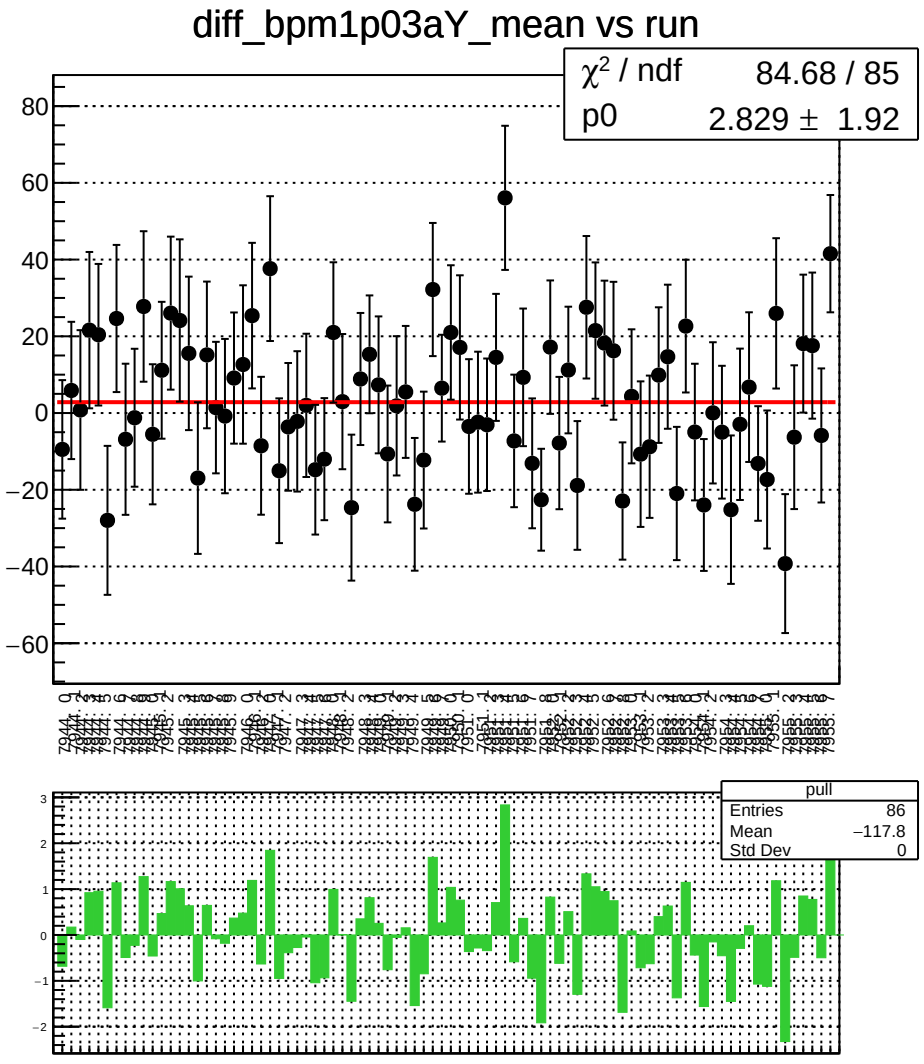

pull1D
Entries 86
Mean 0.003108
Std Dev 0.9164

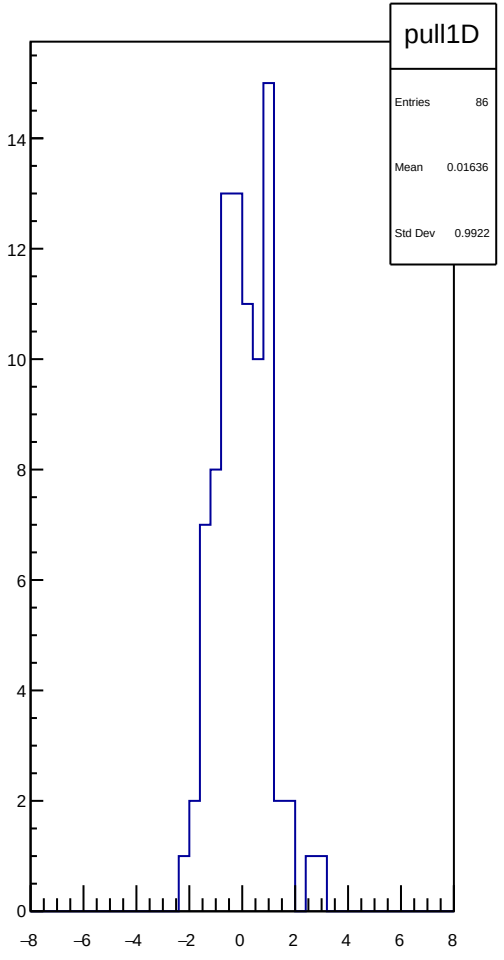

diff_bpm1p02bY_rms vs run
χ² / ndf 1.12e+04 / 85
p0 1878 ± 1.481
2400
2300
2200
2100
2000
1900
1800
1700

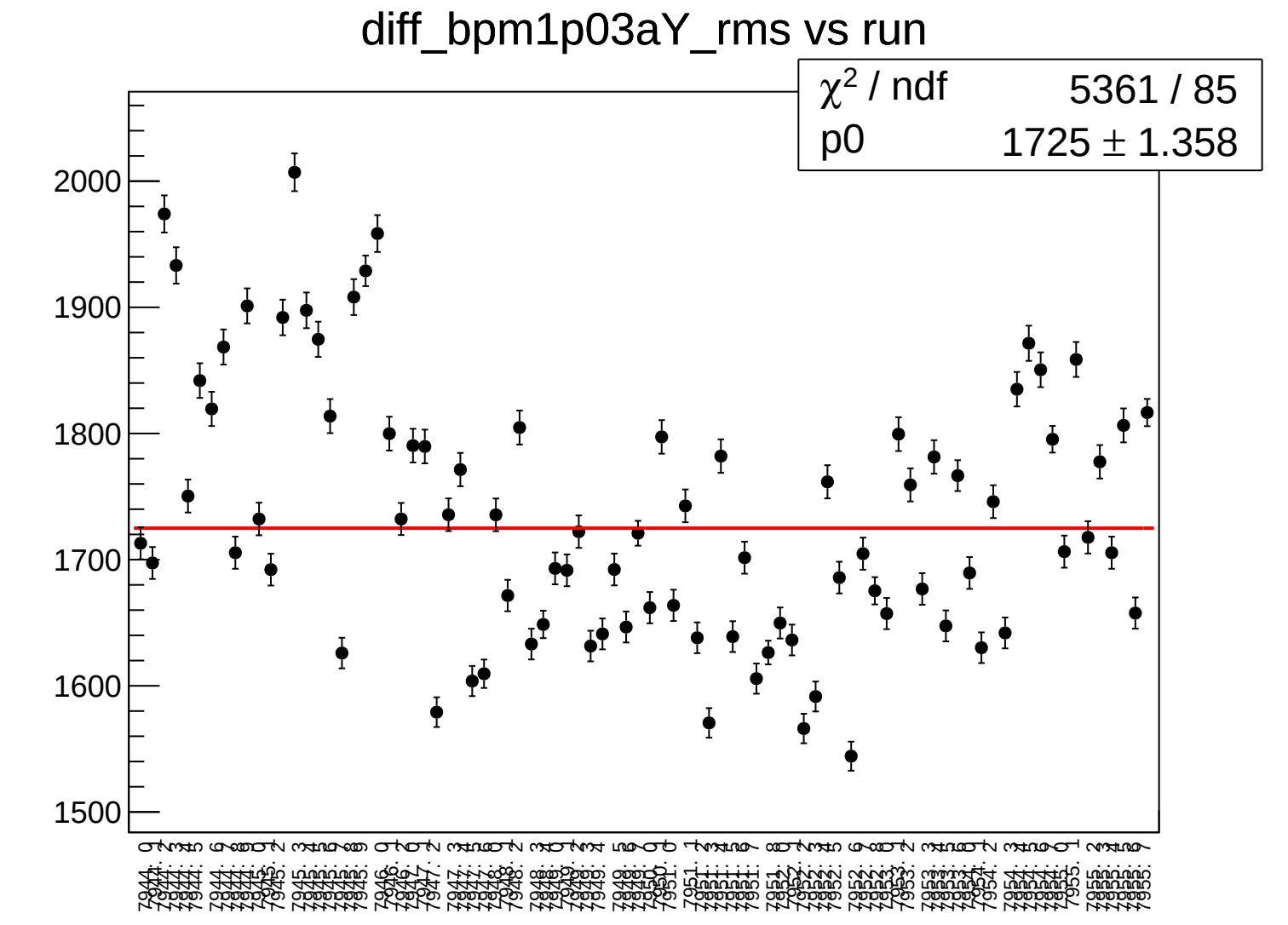

diff_bpm1p03aX_mean vs run
χ² / ndf 86.39 / 85
p0 0.481 ± 2.087
pull
Entries 86
Mean 1670
Std Dev 0

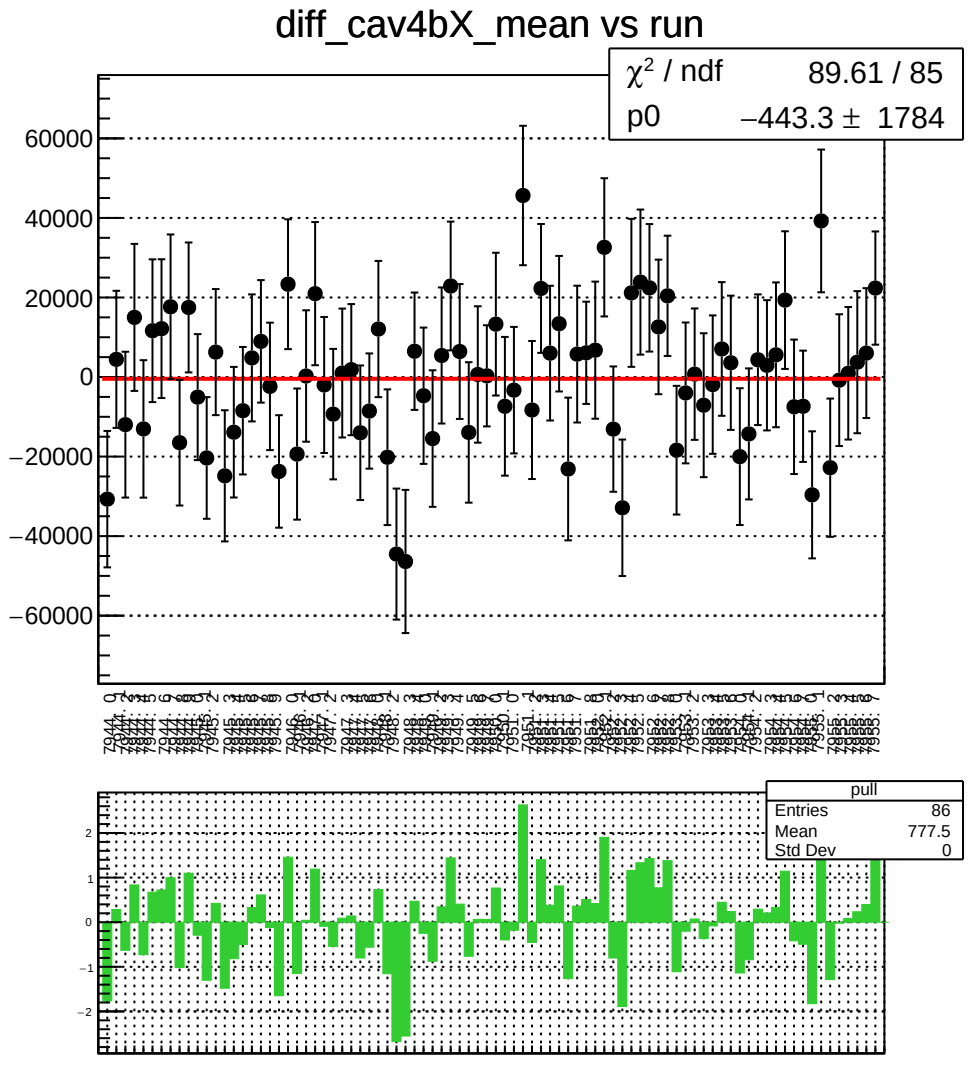

pull1D
Entries 86
Mean 0.002404
Std Dev 1.002

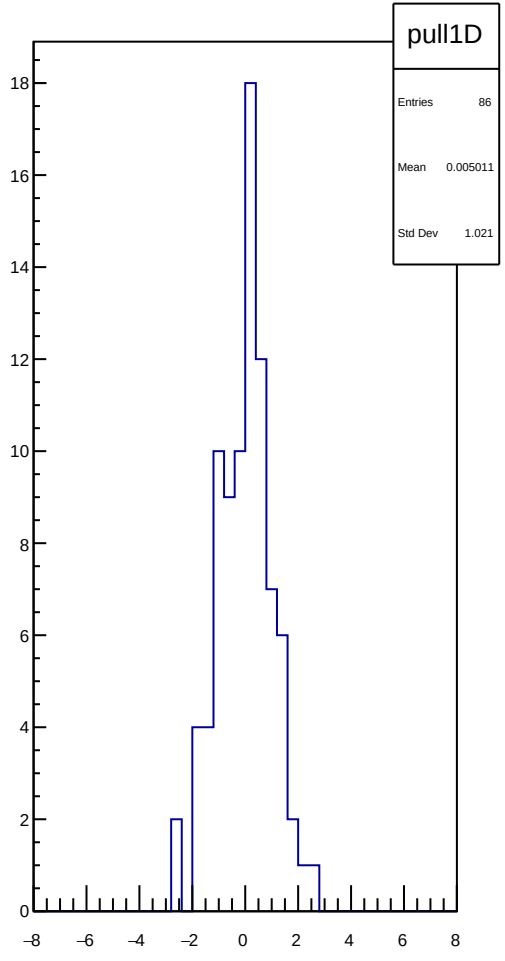

diff_bpm1p03aX_rms vs run
χ² / ndf 2489 / 85
p0 1876 ± 1.476
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700

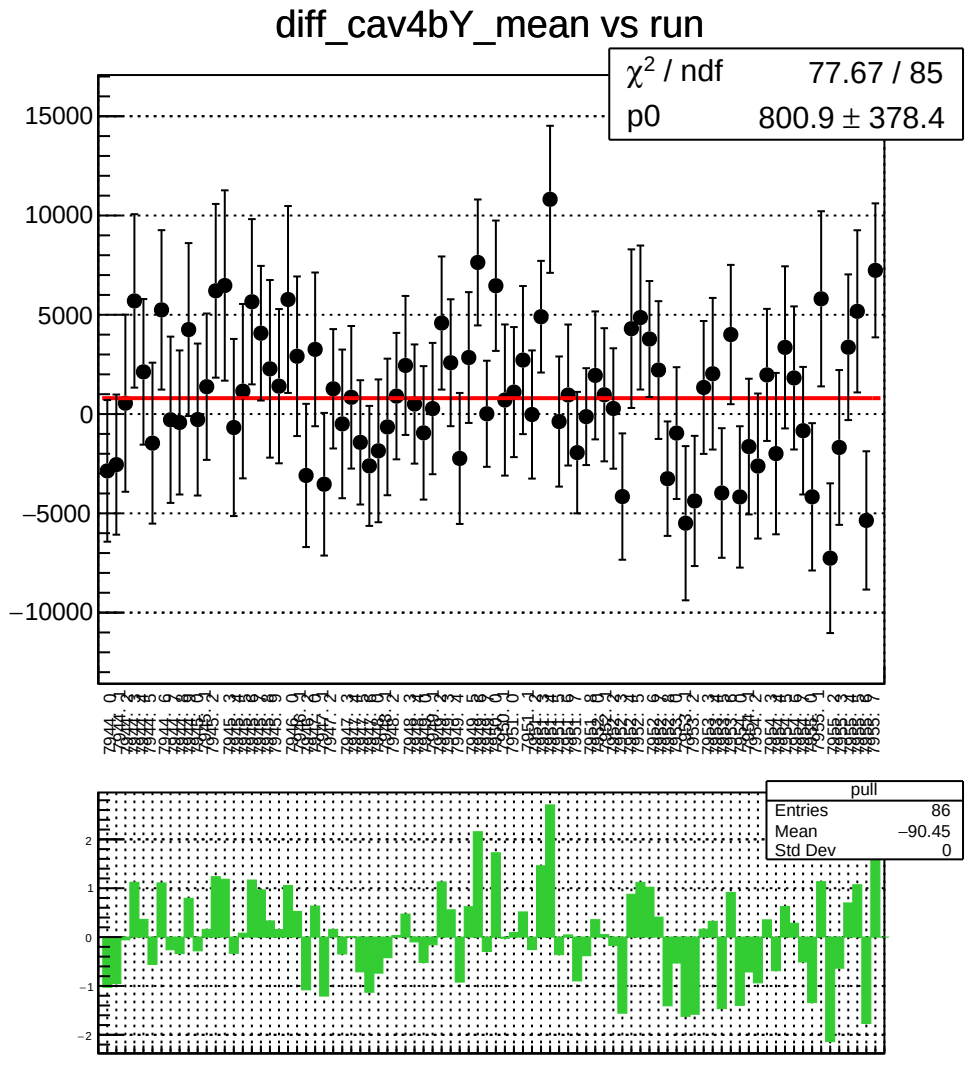

diff_bpm1p03aY_mean vs run
χ² / ndf 84.68 / 85
p0 2.829 ± 1.92
pull
Entries 86
Mean −117.8
Std Dev 0

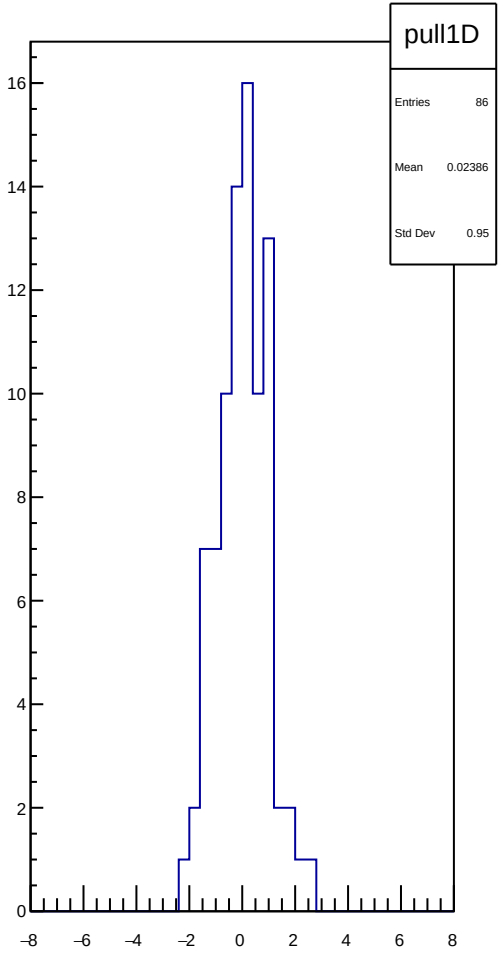

pull1D
Entries 86
Mean 0.01636
Std Dev 0.9922

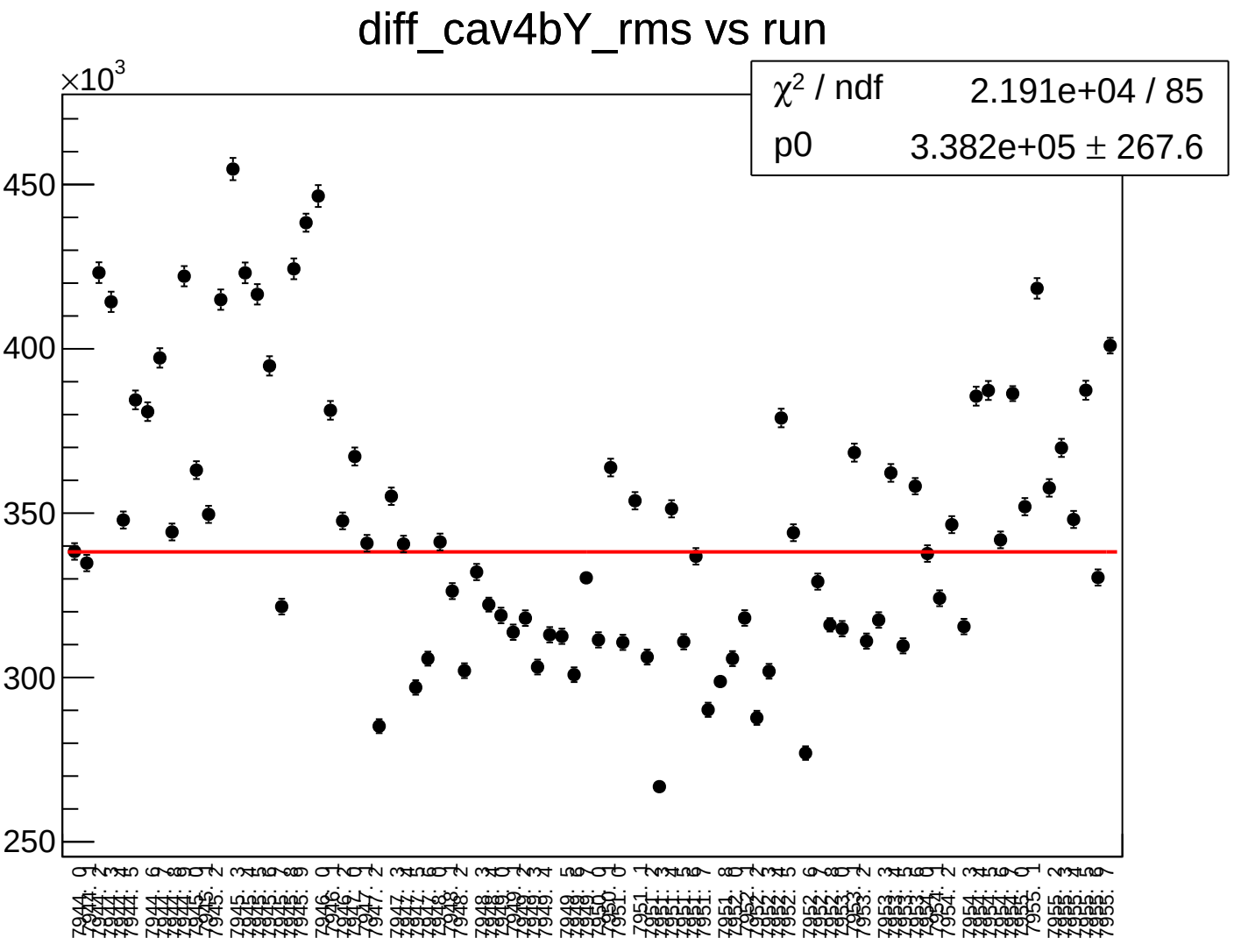

diff_bpm1p03aY_rms vs run
χ² / ndf 5361 / 85
p0 1725 ± 1.358
2000
1900
1800
1700
1600
1500

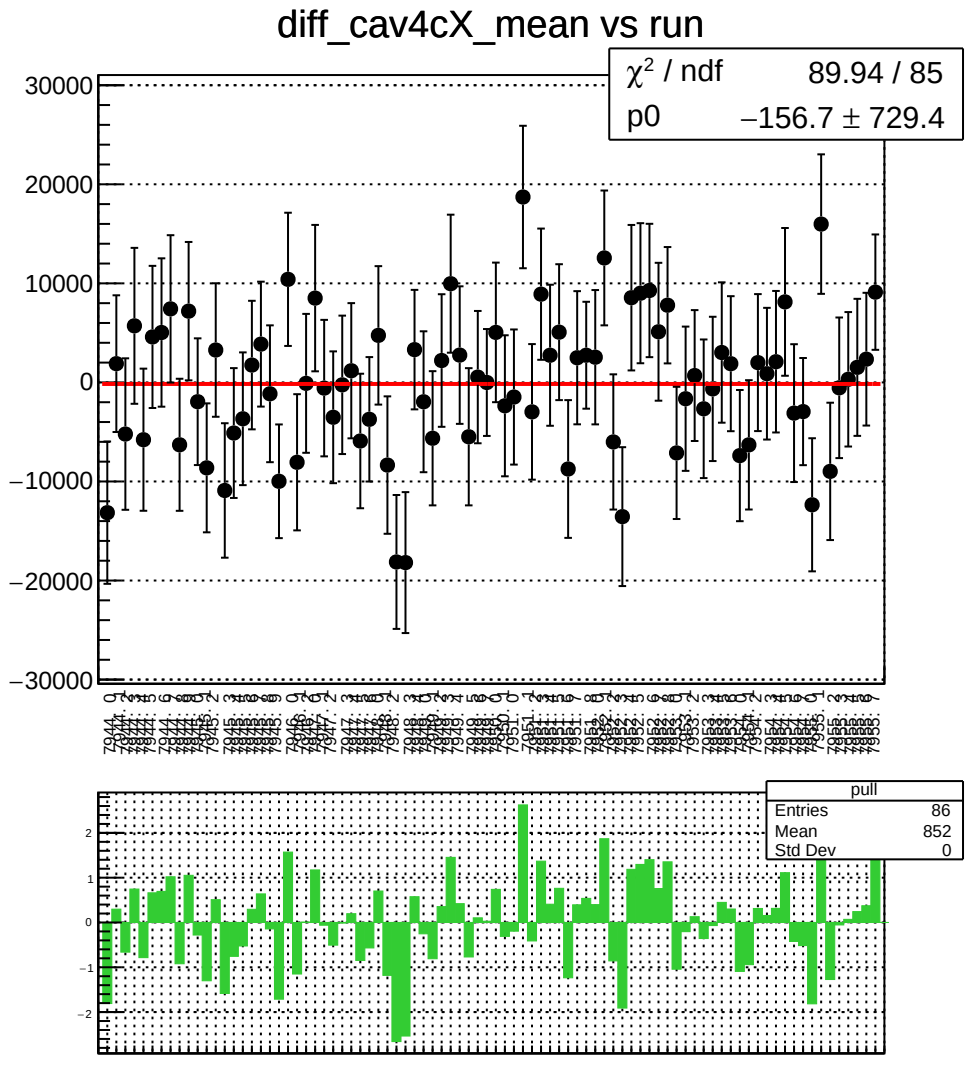

diff_cav4bX_mean vs run
χ² / ndf 89.61 / 85
p0 −443.3 ± 1784
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 777.5
Std Dev 0
2
1
0
−1
−2

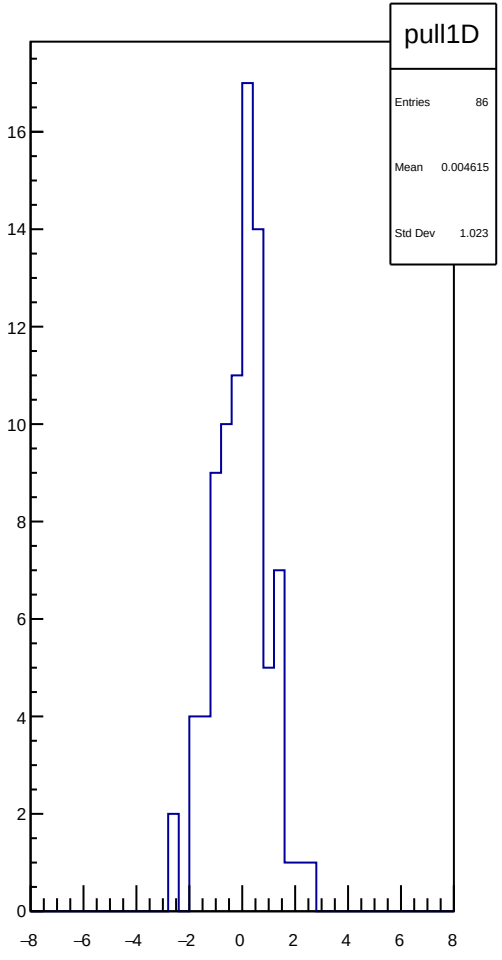

pull1D
Entries 86
Mean 0.005011
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

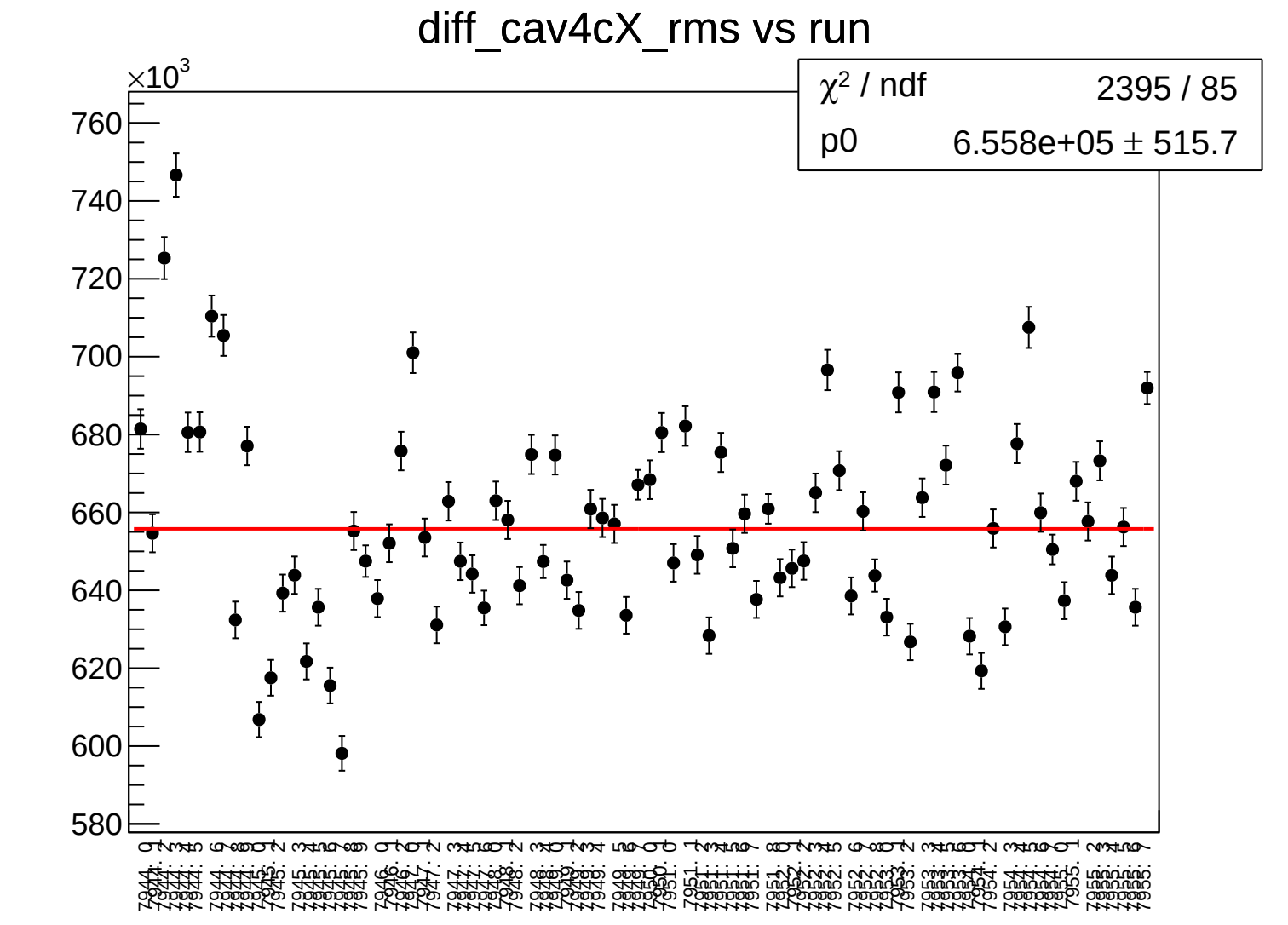

diff_cav4bY_mean vs run
χ^2 / ndf 77.67 / 85
p0 800.9 ± 378.4
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −90.45
Std Dev 0
2
1
0
−1
−2

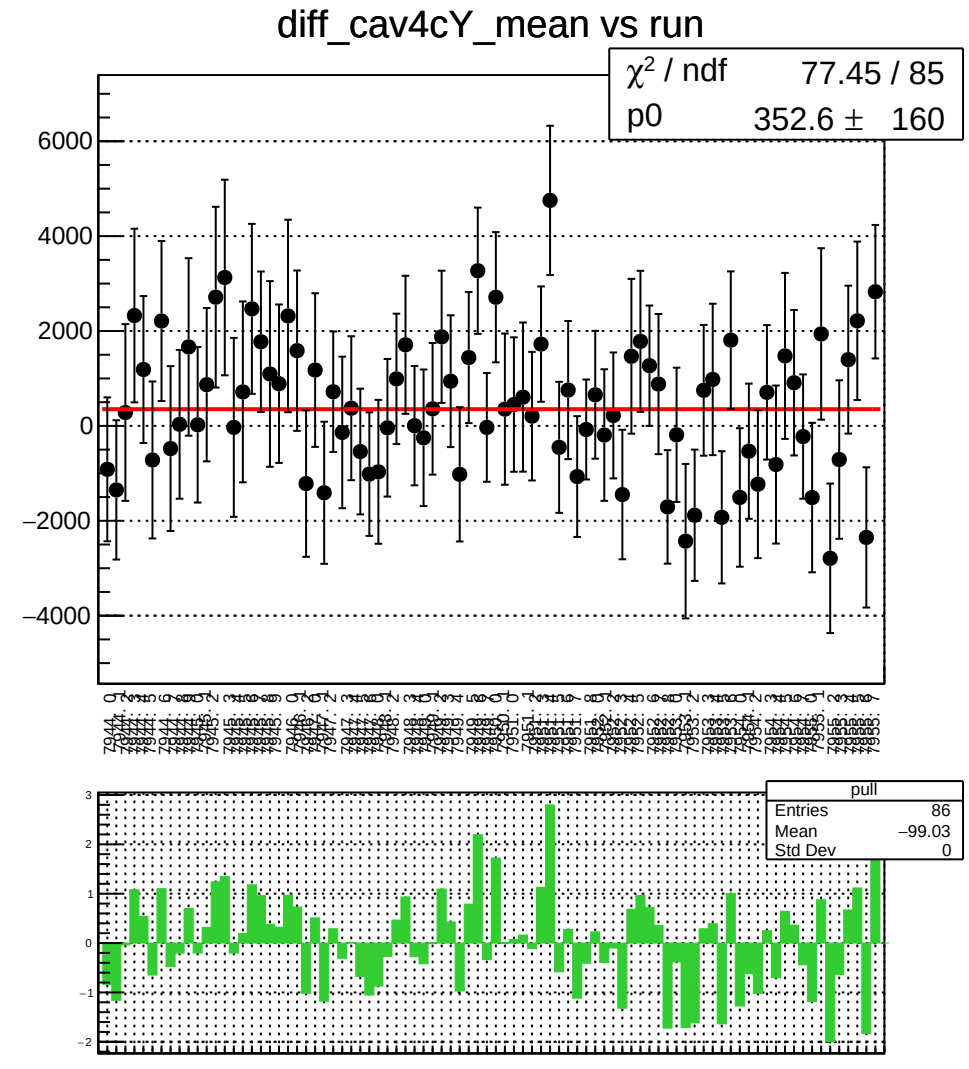

pull1D
Entries 86
Mean 0.02386
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

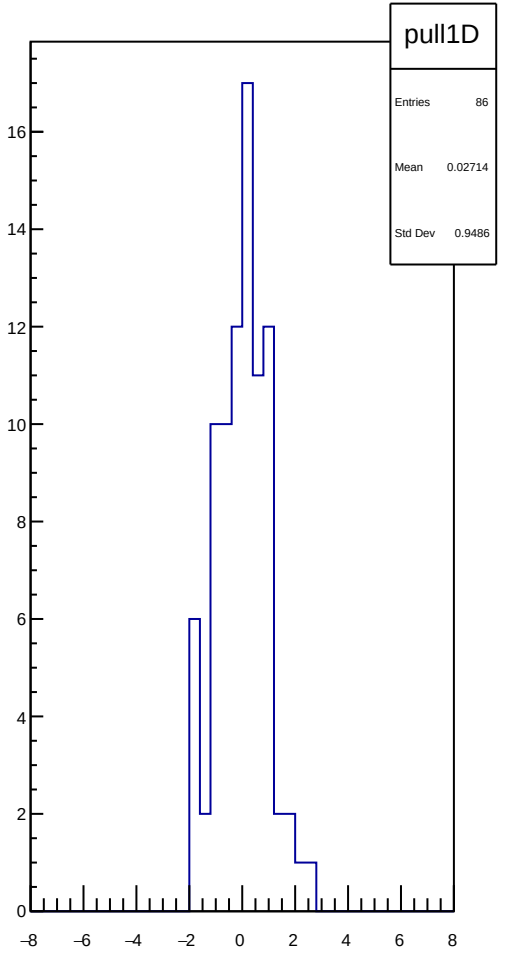

diff_cav4bY_rms vs run
×10^3
450
400
350
300
250
χ² / ndf 2.191e+04 / 85
p0 3.382e+05 ± 267.6

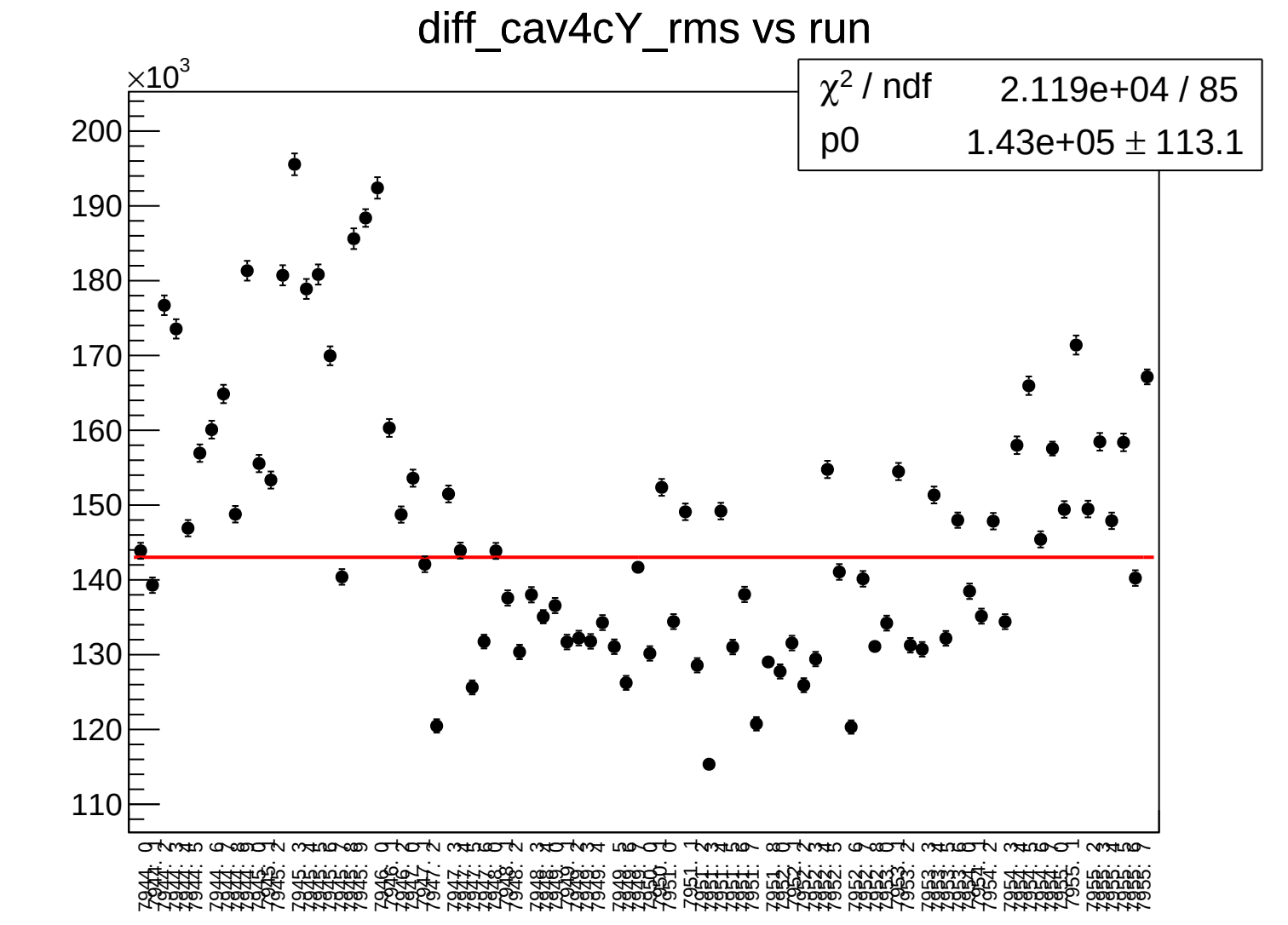

diff_cav4cX_mean vs run
χ² / ndf 89.94 / 85
p0 −156.7 ± 729.4
pull
Entries 86
Mean 852
Std Dev 0

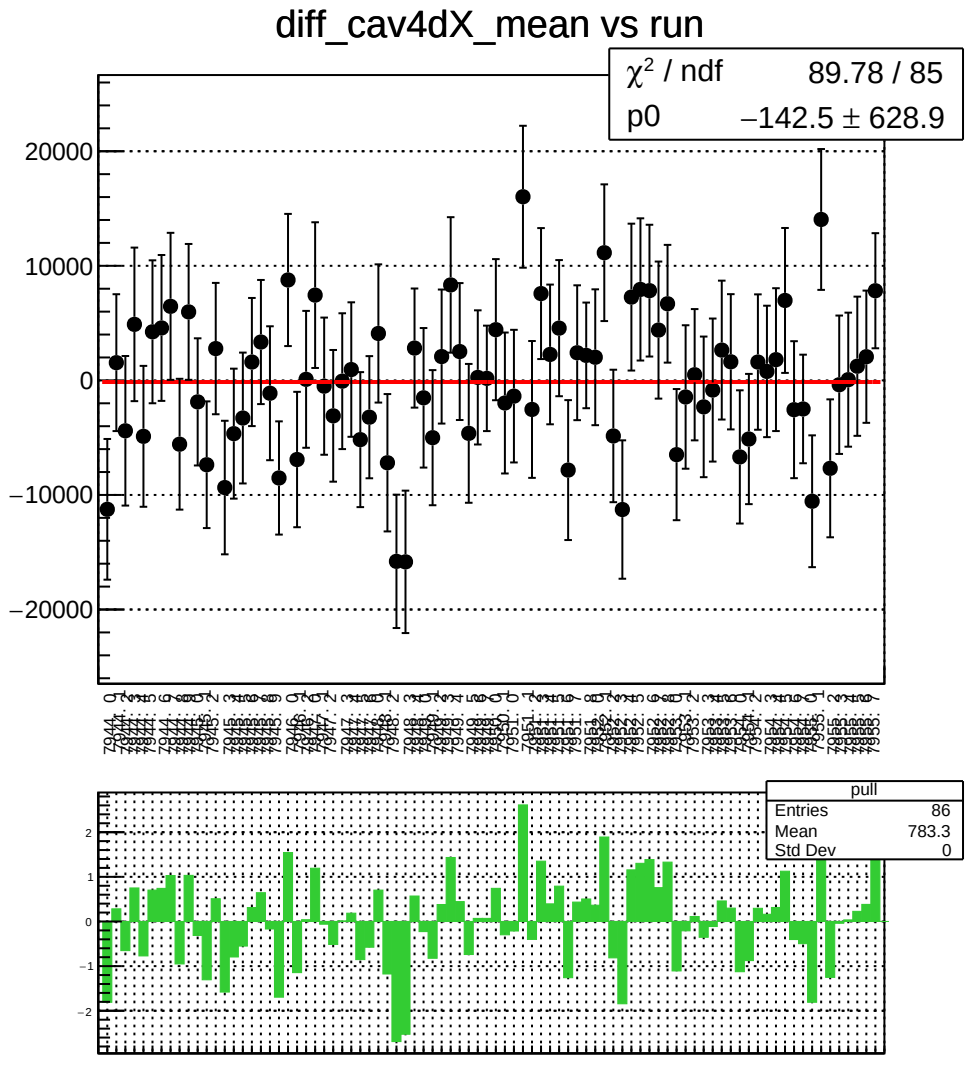

pull1D
Entries 86
Mean 0.004615
Std Dev 1.023

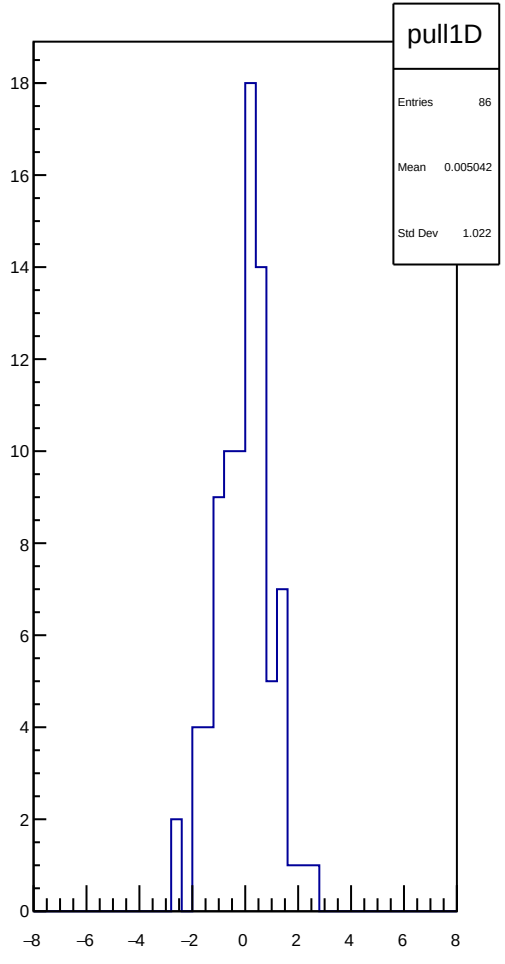

diff_cav4cX_rms vs run
×10^3
760
740
720
700
680
660
640
620
600
580
χ² / ndf 2395 / 85
p0 6.558e+05 ± 515.7

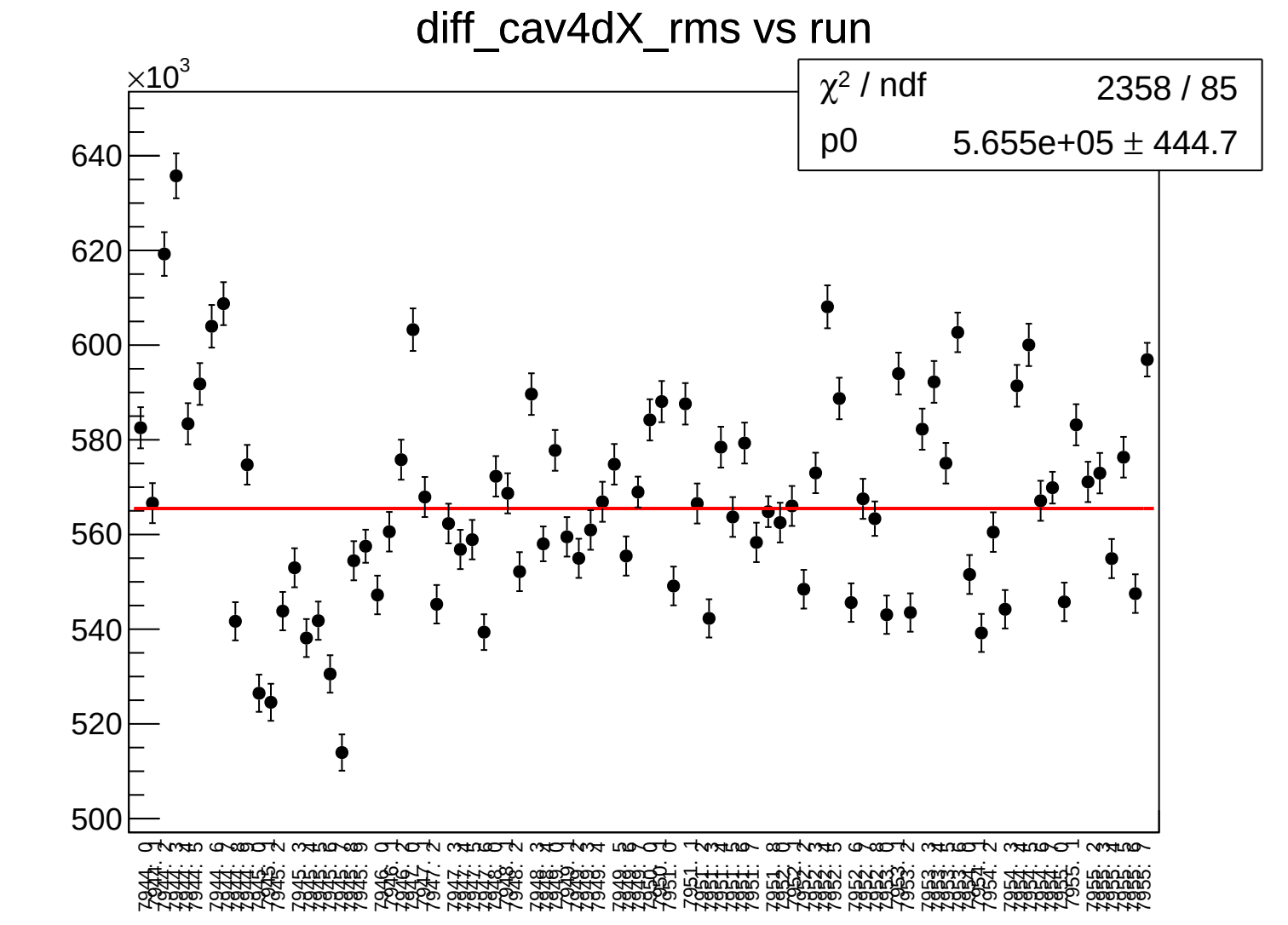

diff_cav4cY_mean vs run
χ² / ndf 77.45 / 85
p0 352.6 ± 160
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −99.03
Std Dev 0
3
2
1
0
−1
−2

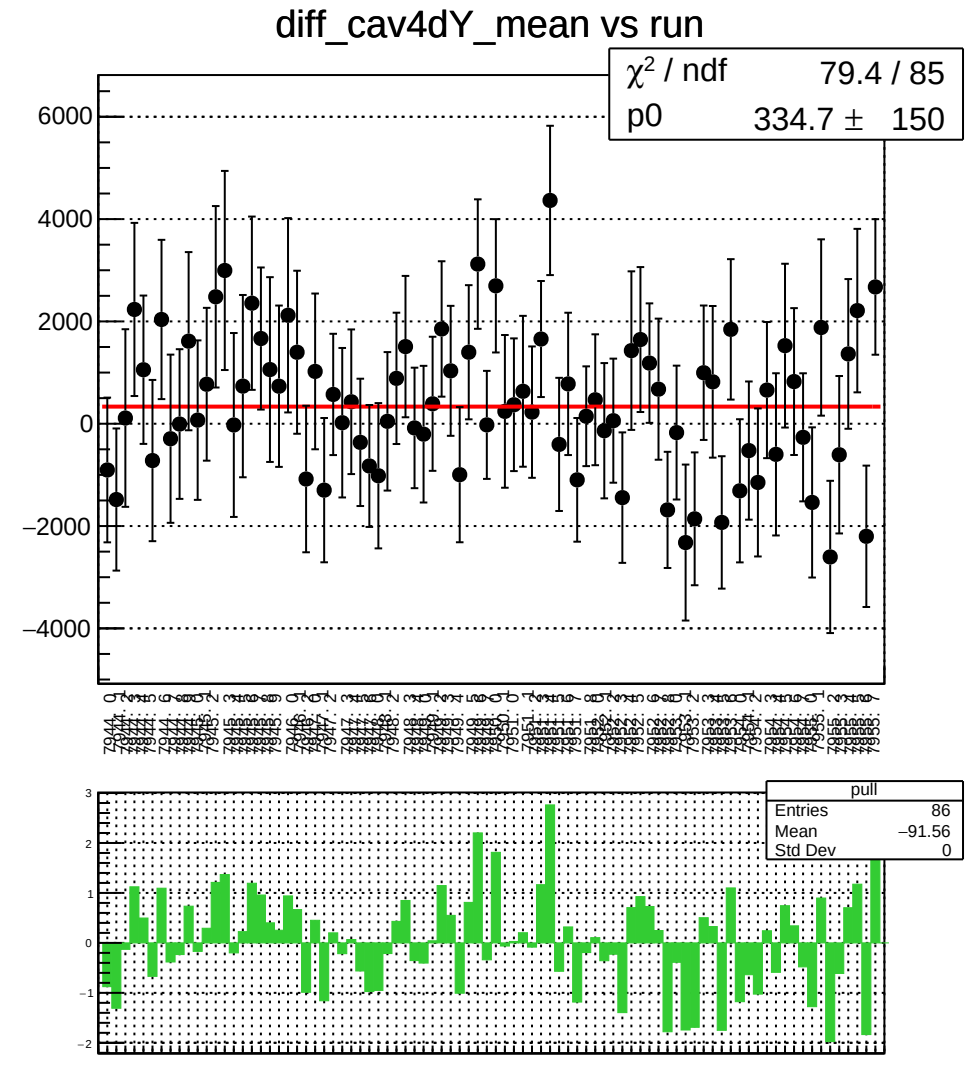

pull1D
Entries 86
Mean 0.02714
Std Dev 0.9486
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

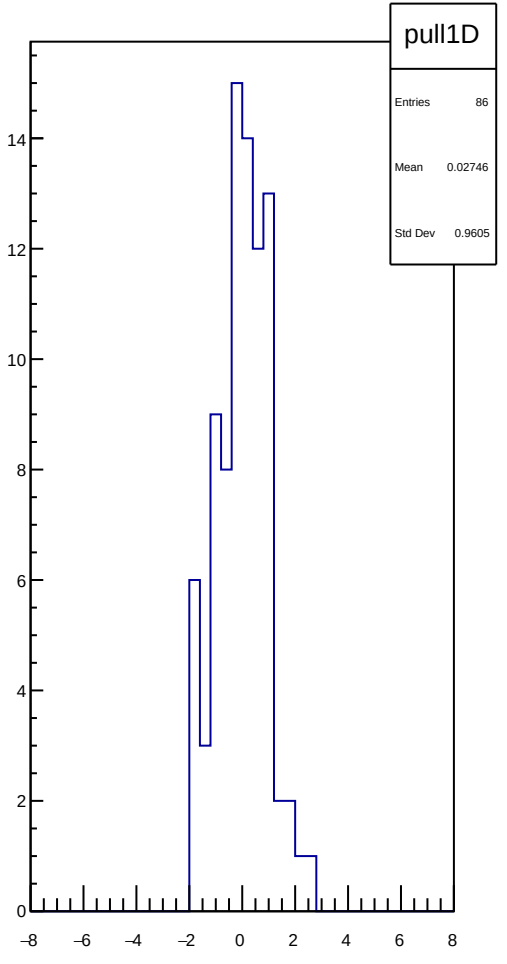

diff_cav4cY_rms vs run
×10^3
200
190
180
170
160
150
140
130
120
110
χ² / ndf 2.119e+04 / 85
p0 1.43e+05 ± 113.1

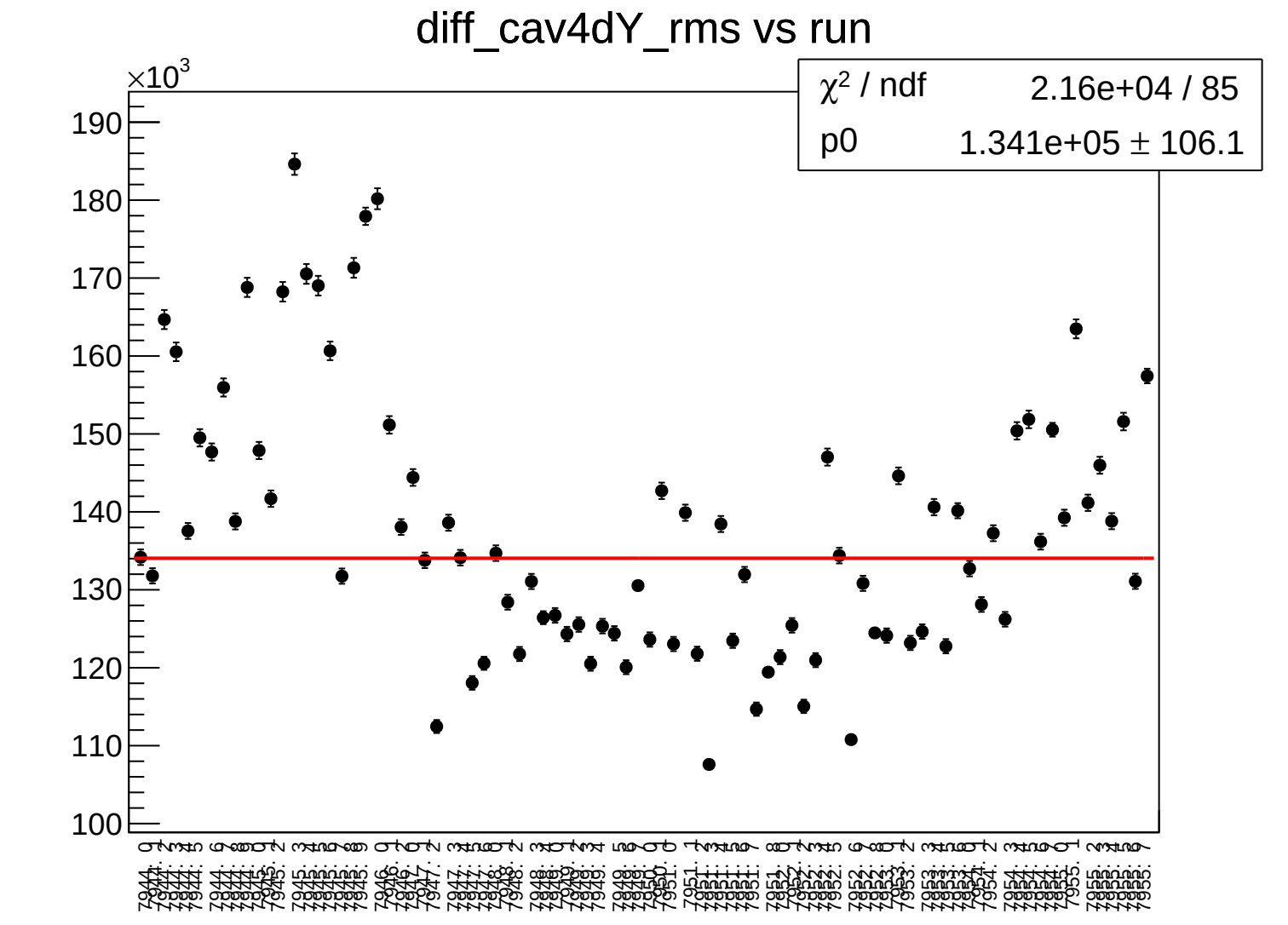

diff_cav4dX_mean vs run
χ² / ndf 89.78 / 85
p0 −142.5 ± 628.9
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 783.3
Std Dev 0
2
1
0
−1
−2

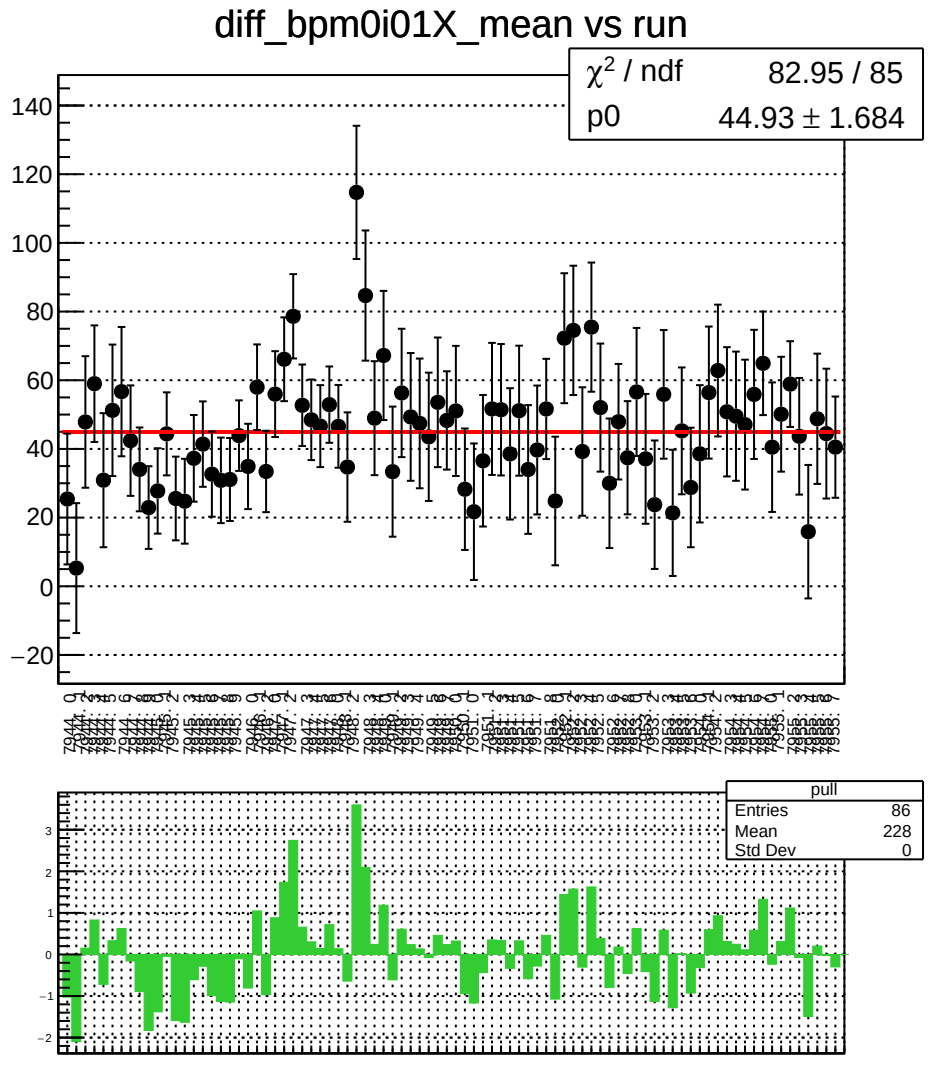

pull1D
Entries 86
Mean 0.005042
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

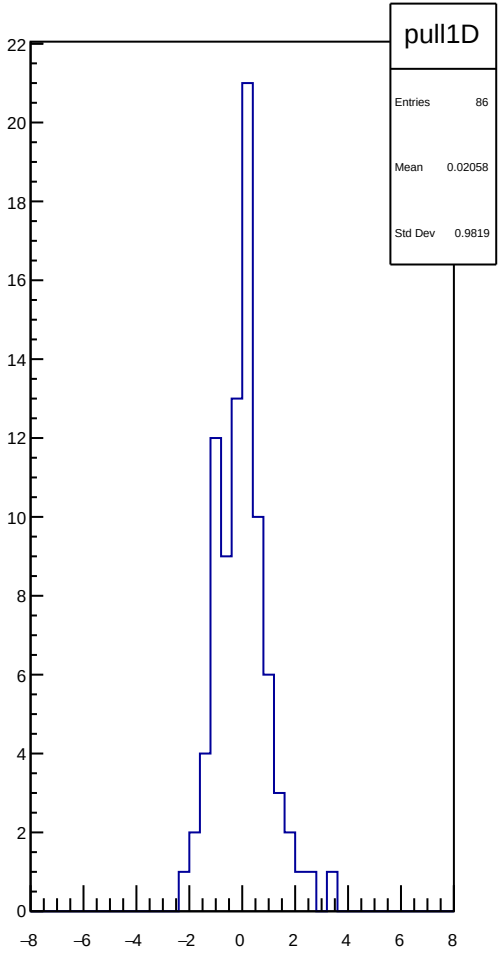

diff_cav4dX_rms vs run
×10^3
χ² / ndf 2358 / 85
p0 5.655e+05 ± 444.7
640
620
600
580
560
540
520
500

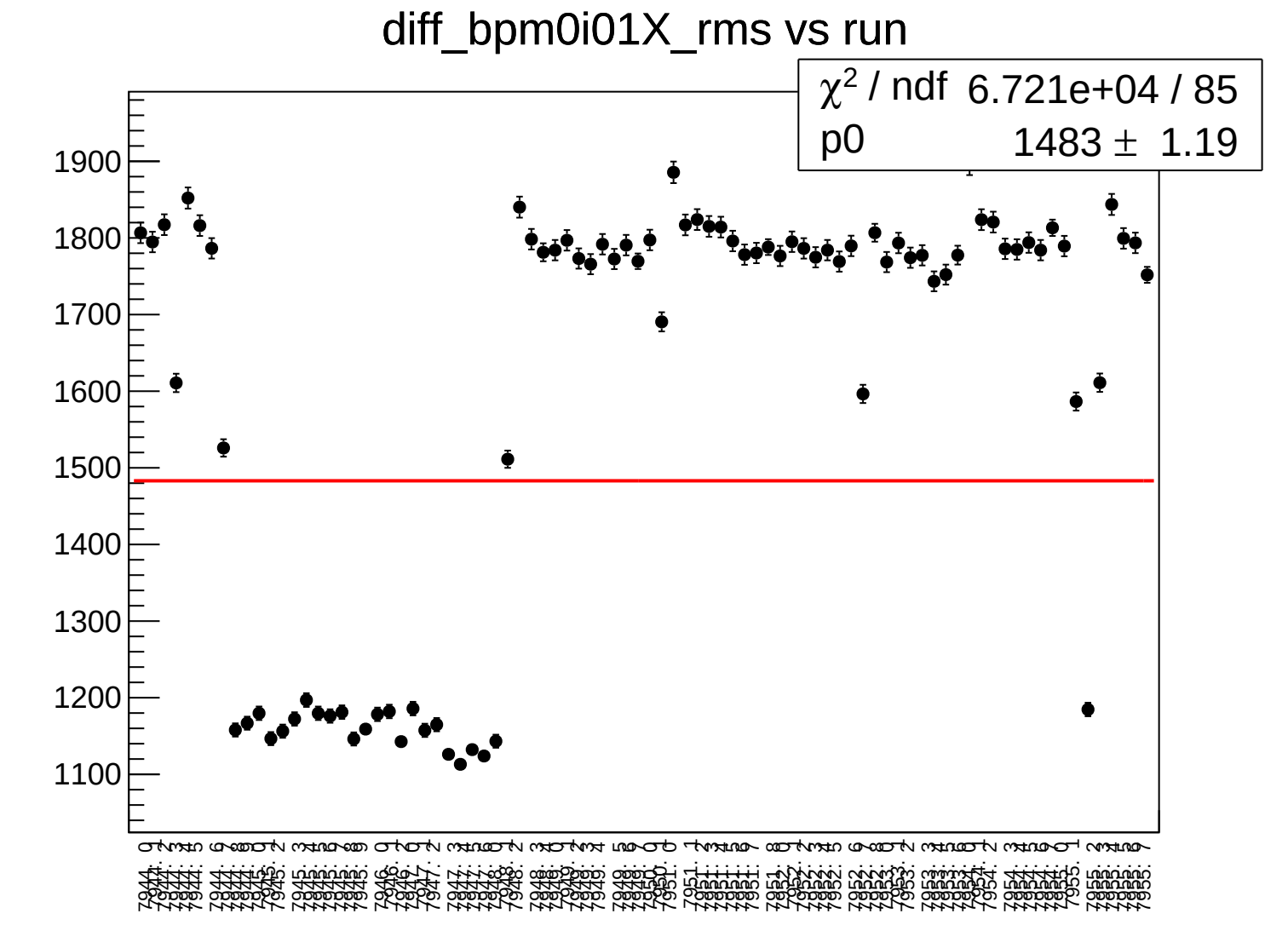

diff_cav4dY_mean vs run
χ² / ndf 79.4 / 85
p0 334.7 ± 150
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −91.56
Std Dev 0
3
2
1
0
−1
−2

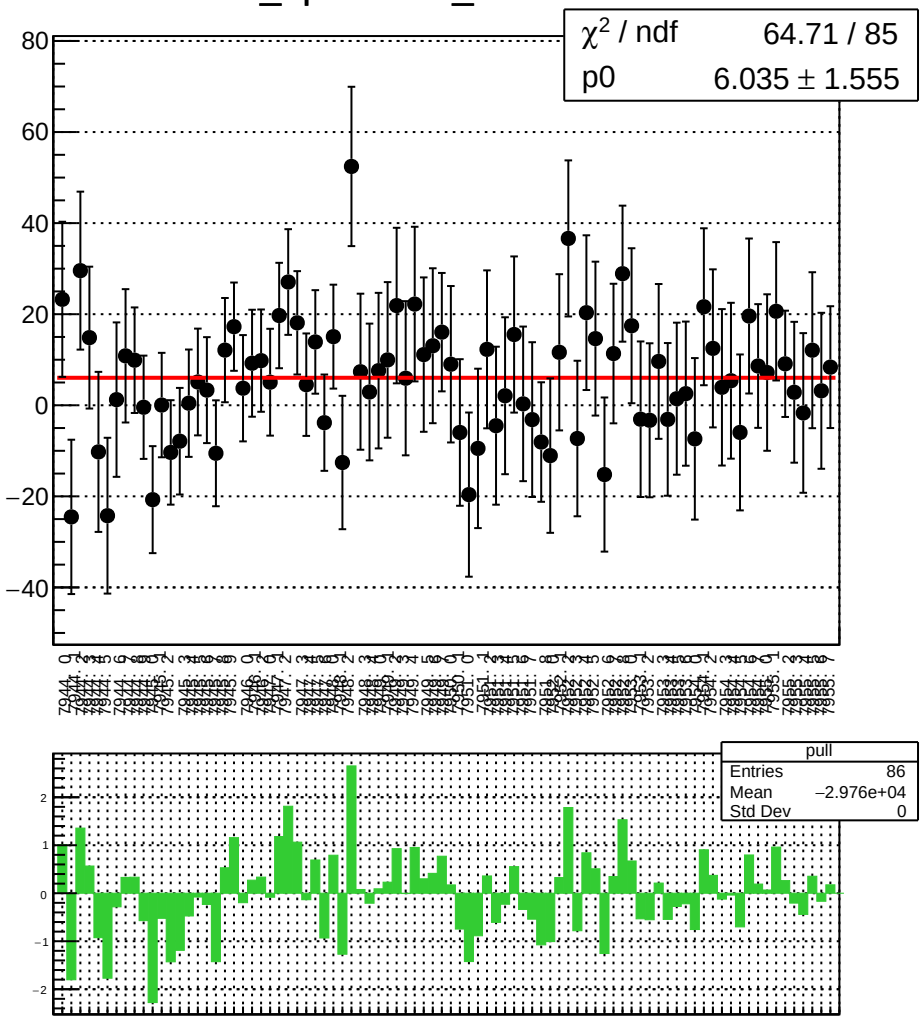

pull1D
Entries 86
Mean 0.02746
Std Dev 0.9605
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

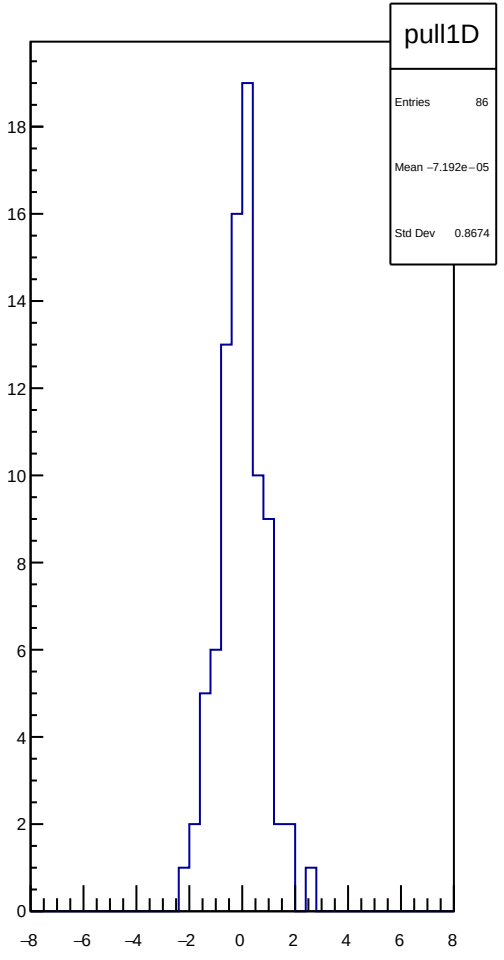

diff_cav4dY_rms vs run
×10^3
χ² / ndf 2.16e+04 / 85
p0 1.341e+05 ± 106.1
190
180
170
160
150
140
130
120
110
100

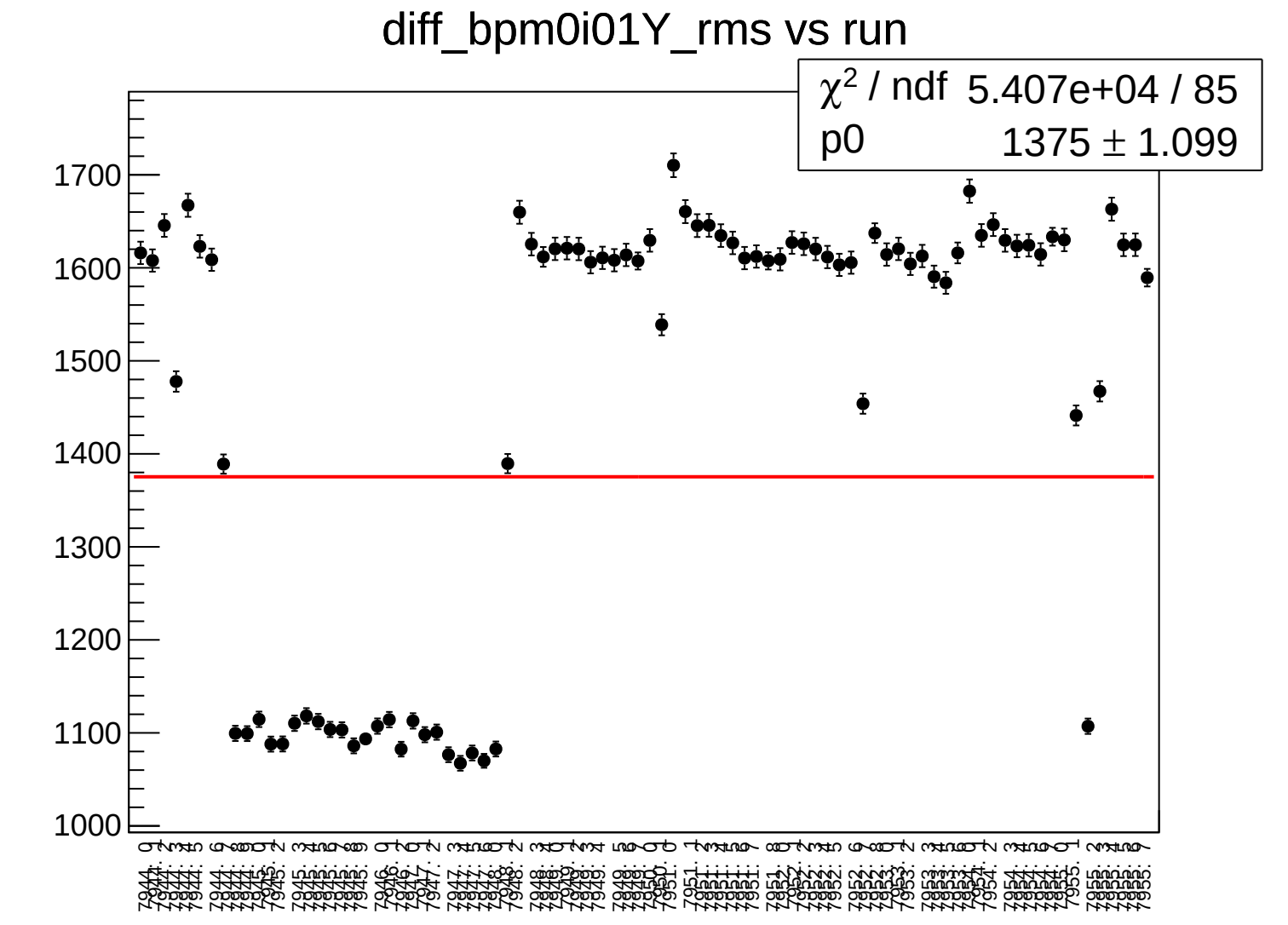

diff_bpm0i01X_mean vs run
χ^2 / ndf 82.95 / 85
p0 44.93 ± 1.684
pull
Entries 86
Mean 228
Std Dev 0

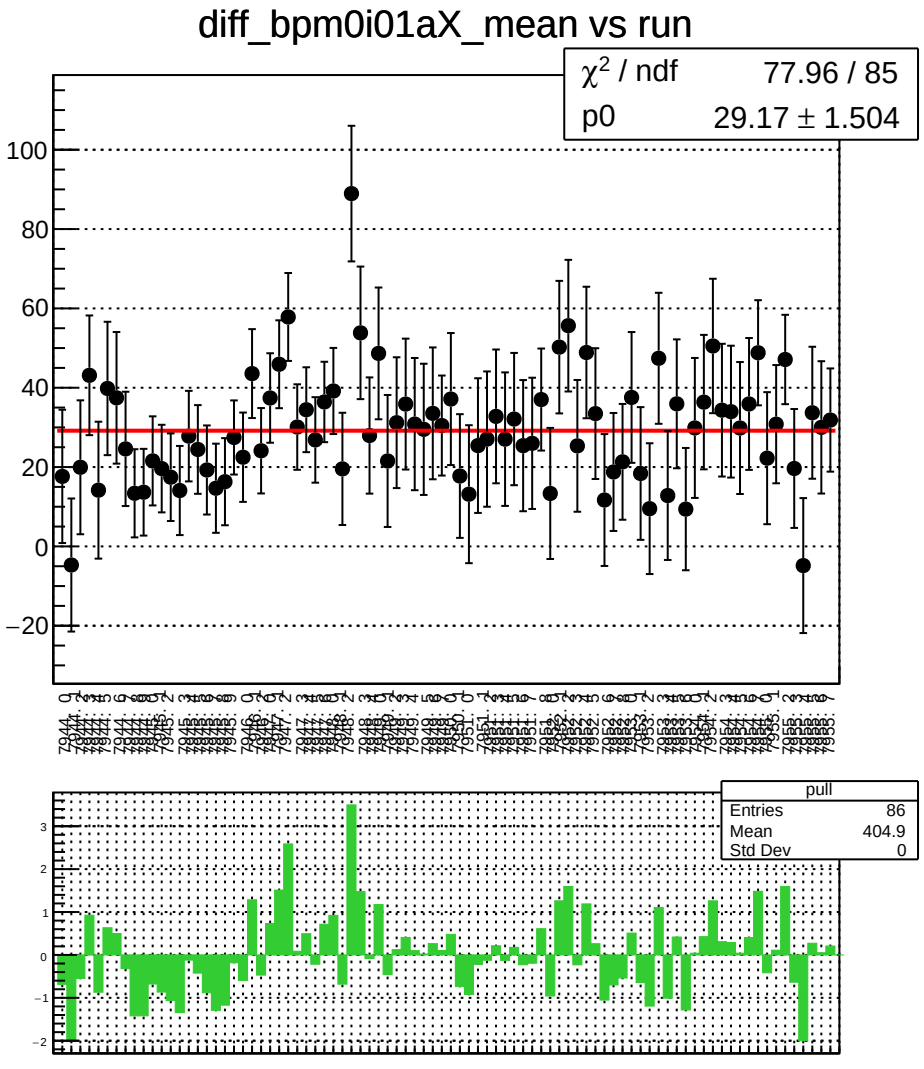

pull1D
Entries 86
Mean 0.02058
Std Dev 0.9819

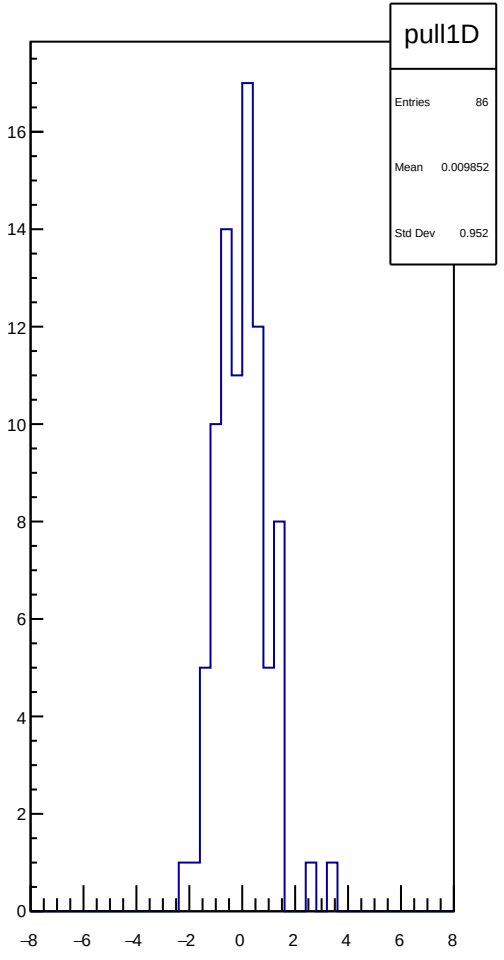

diff_bpm0i01X_rms vs run
χ² / ndf 6.721e+04 / 85
p0 1483 ± 1.19
1900
1800
1700
1600
1500
1400
1300
1200
1100

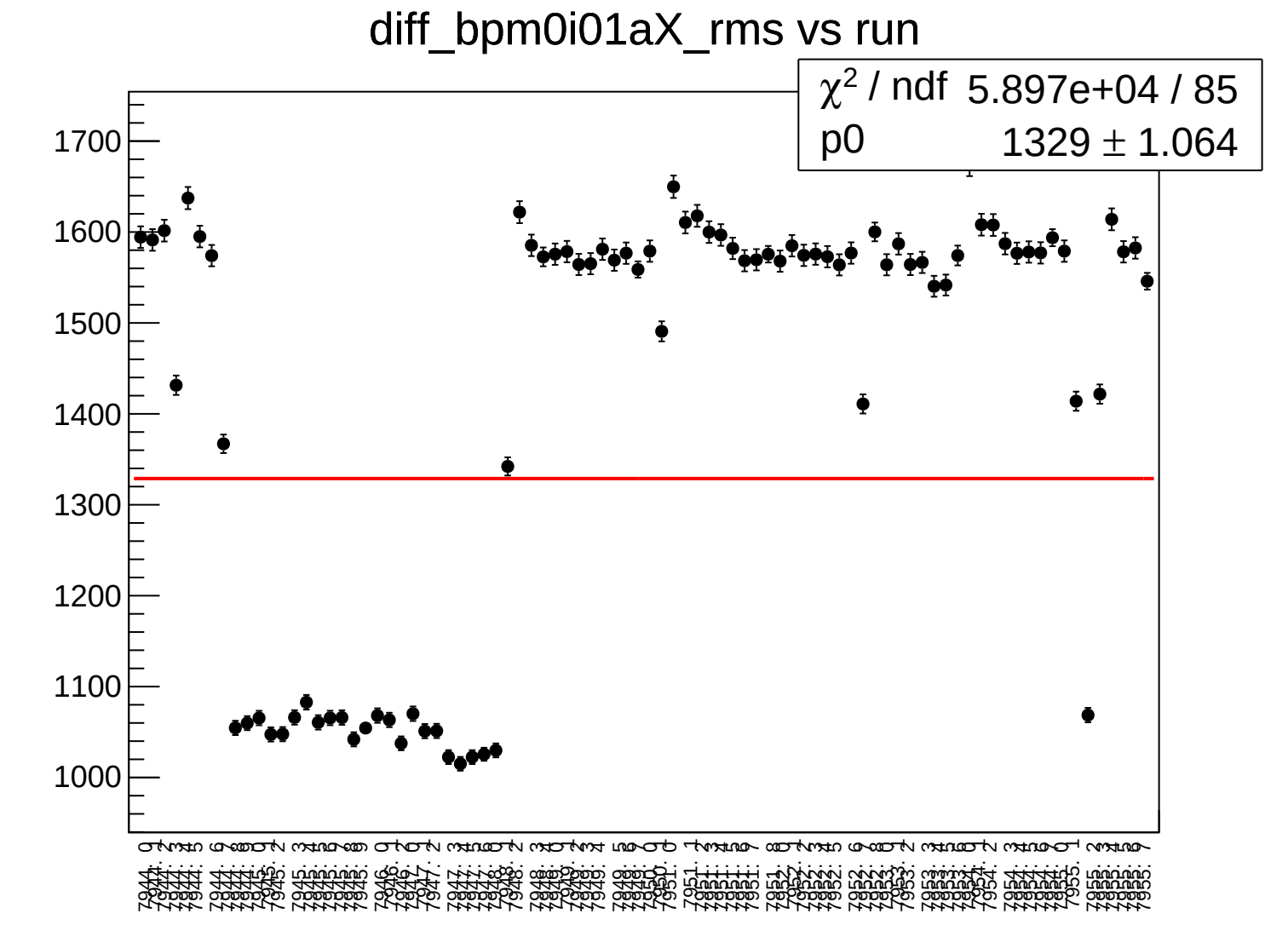

diff_bpm0i01Y_mean vs run
χ² / ndf 64.71 / 85
p0 6.035 ± 1.555
pull
Entries 86
Mean −2.976e+04
Std Dev 0

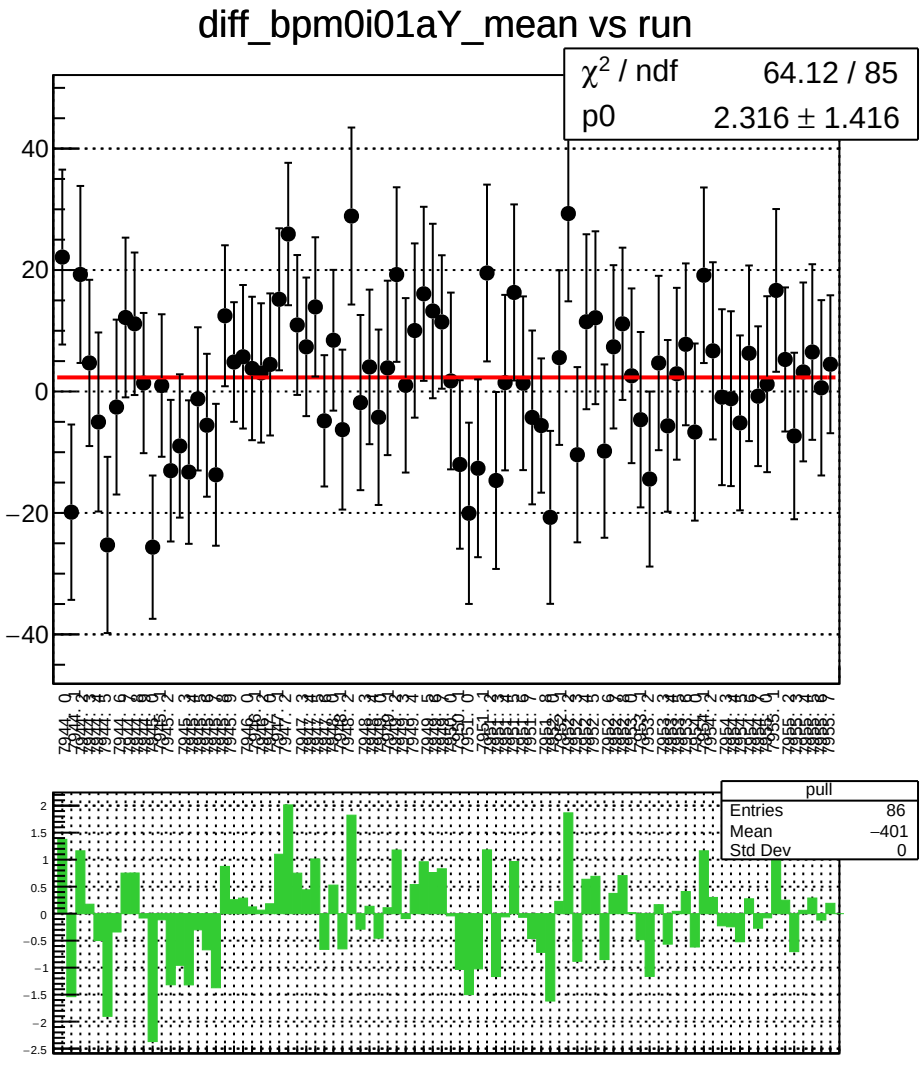

pull1D
Entries 86
Mean −7.192e−05
Std Dev 0.8674

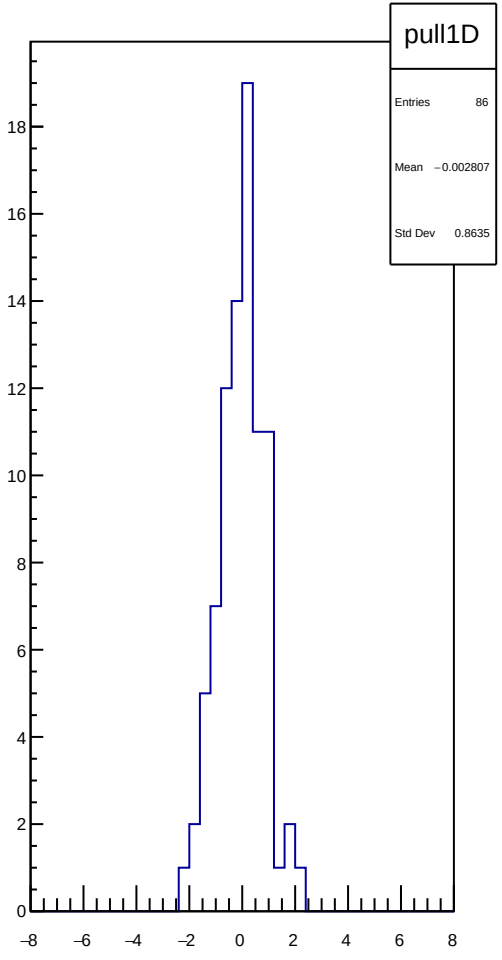

diff_bpm0i01Y_rms vs run
χ² / ndf 5.407e+04 / 85
p0 1375 ± 1.099
1700
1600
1500
1400
1300
1200
1100
1000

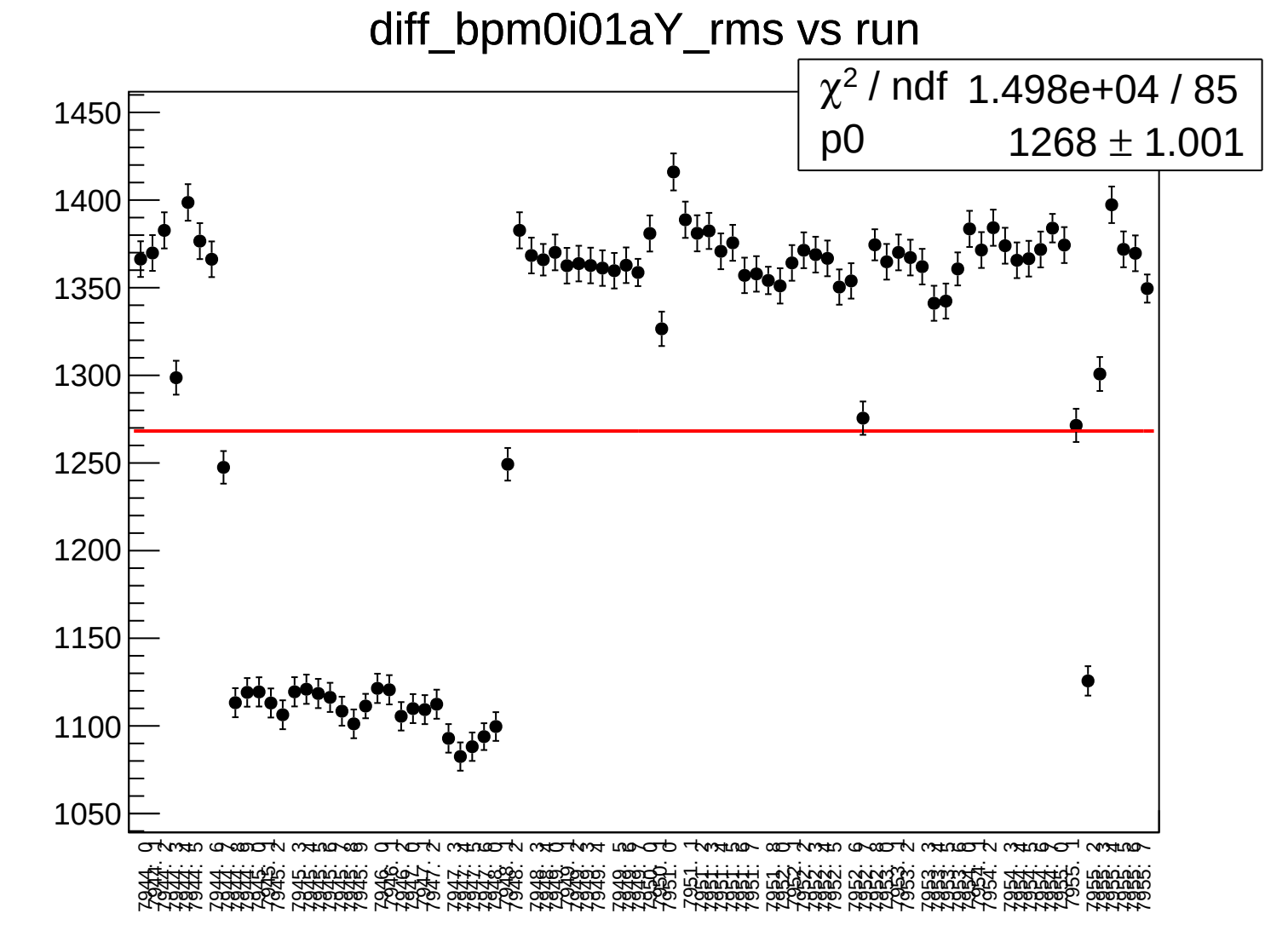

diff_bpm0i01aX_mean vs run
χ² / ndf 77.96 / 85
p0 29.17 ± 1.504
pull
Entries 86
Mean 404.9
Std Dev 0

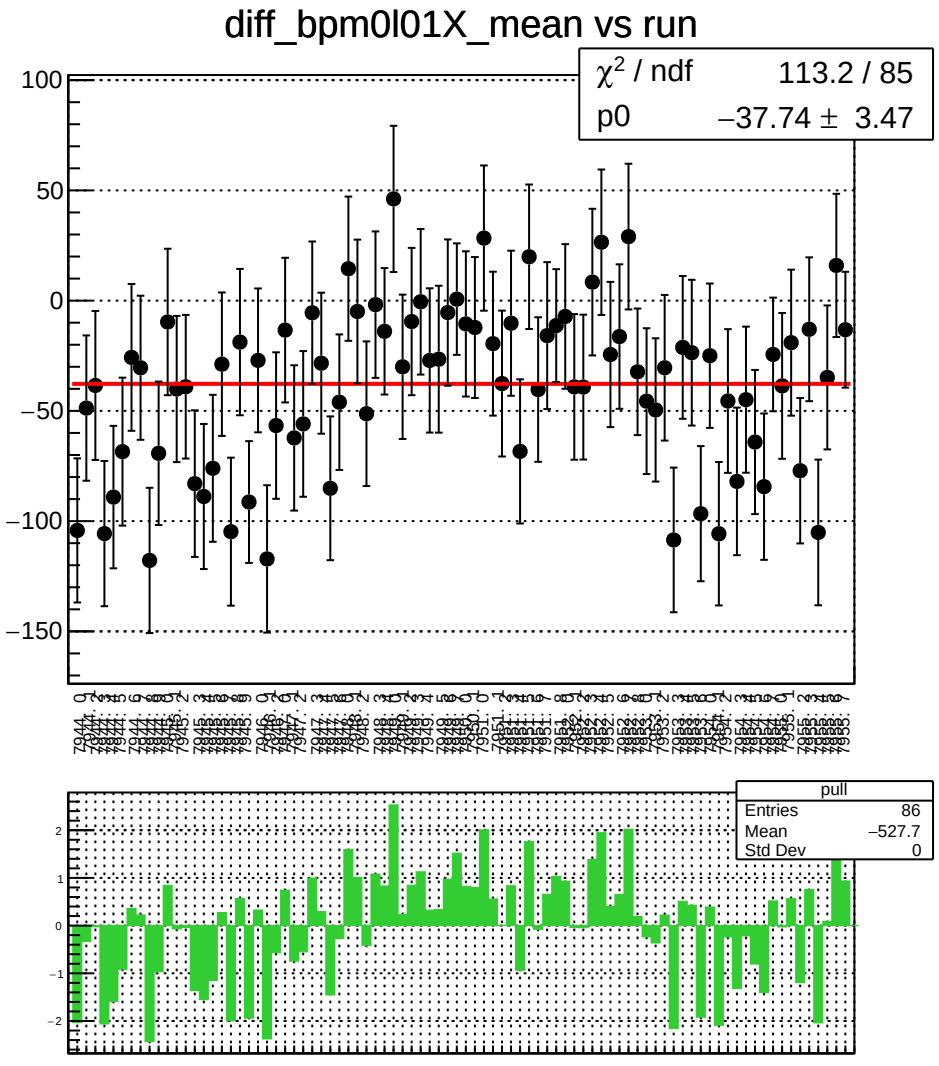

pull1D
Entries 86
Mean 0.009852
Std Dev 0.952

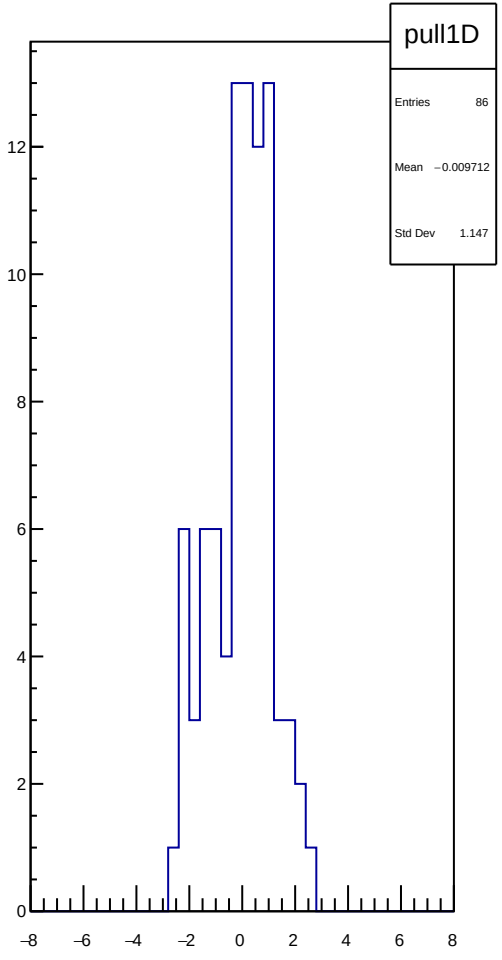

diff_bpm0i01aX_rms vs run
χ² / ndf 5.897e+04 / 85
p0 1329 ± 1.064
1700
1600
1500
1400
1300
1200
1100
1000

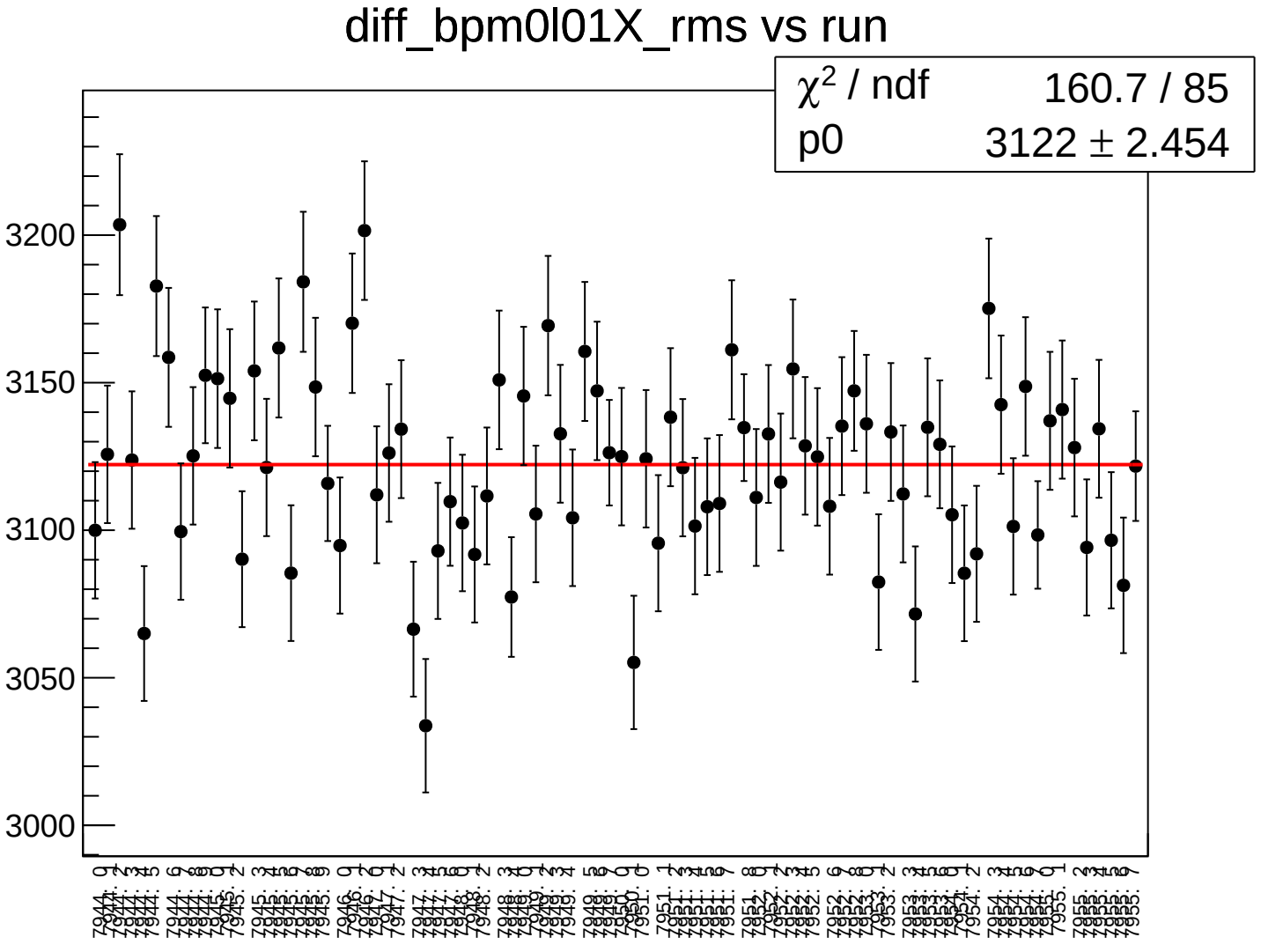

diff_bpm0i01aY_mean vs run
χ² / ndf 64.12 / 85
p0 2.316 ± 1.416
pull
Entries 86
Mean −401
Std Dev 0

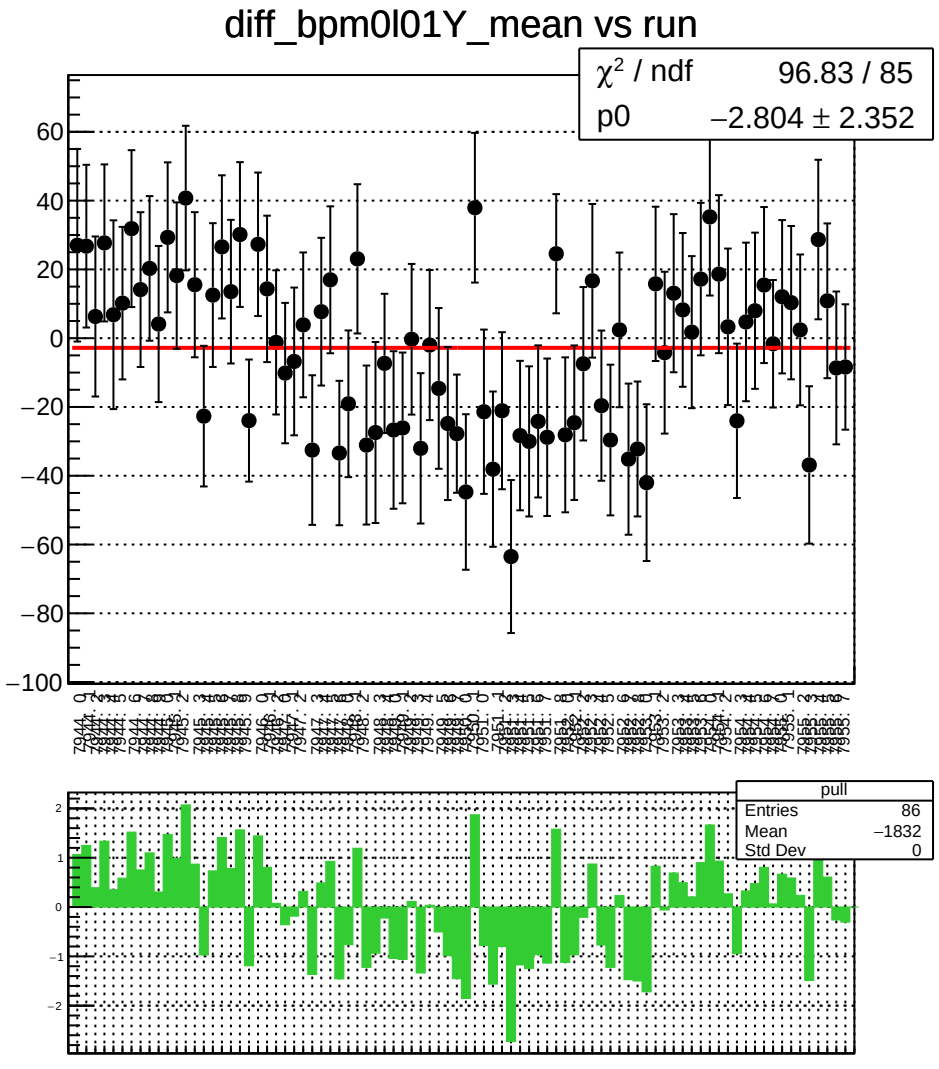

pull1D
Entries 86
Mean −0.002807
Std Dev 0.8635

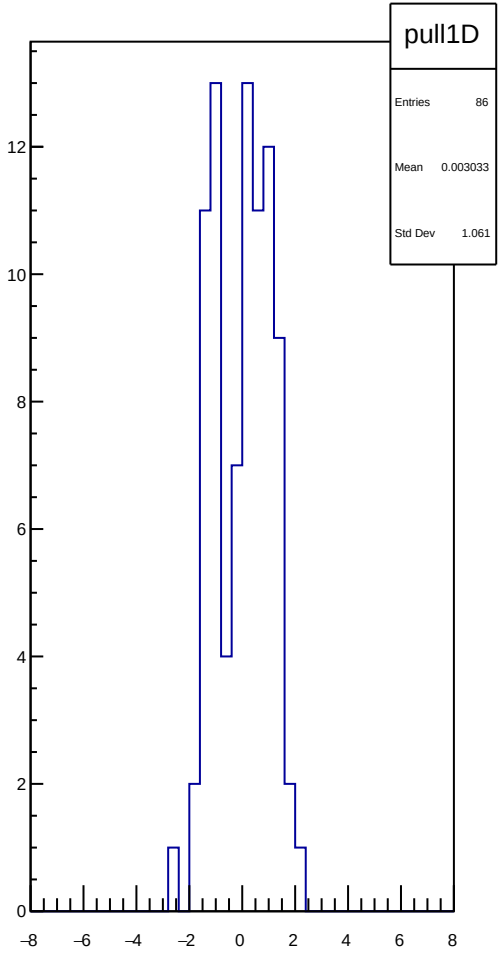

diff_bpm0i01aY_rms vs run
χ² / ndf 1.498e+04 / 85
p0 1268 ± 1.001
1450
1400
1350
1300
1250
1200
1150
1100
1050

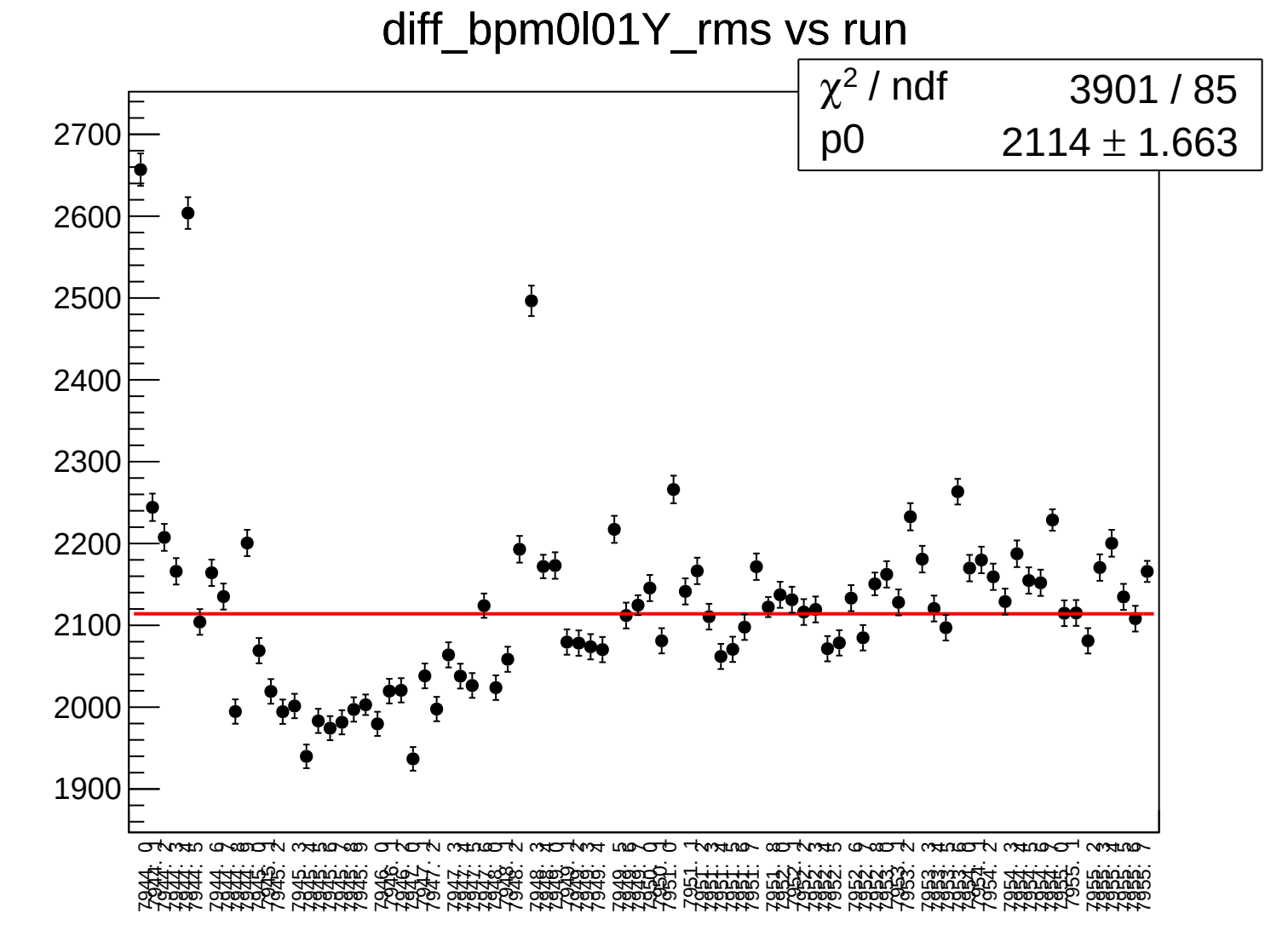

diff_bpm0l01X_mean vs run
χ² / ndf 113.2 / 85
p0 −37.74 ± 3.47
pull
Entries 86
Mean −527.7
Std Dev 0

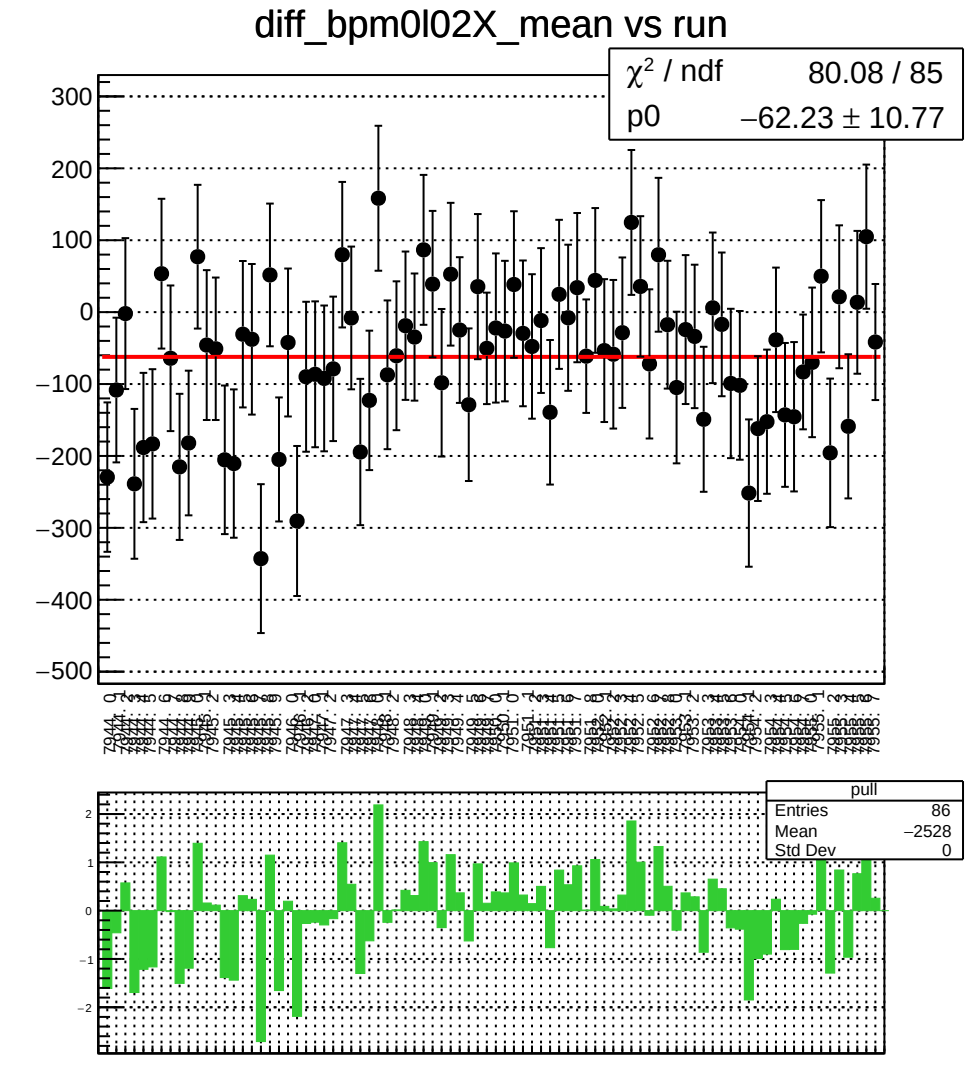

pull1D
Entries 86
Mean −0.009712
Std Dev 1.147

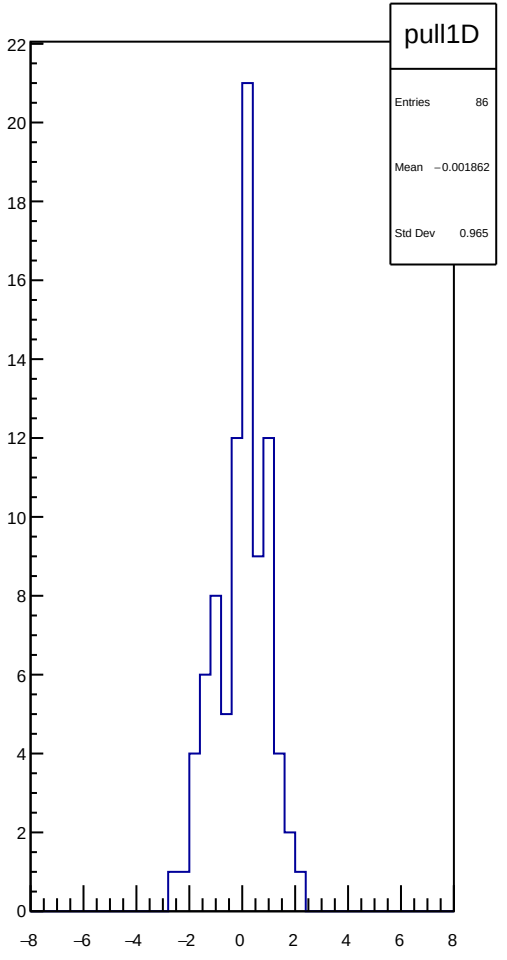

diff_bpm0l01X_rms vs run
χ² / ndf 160.7 / 85
p0 3122 ± 2.454
3200
3150
3100
3050
3000

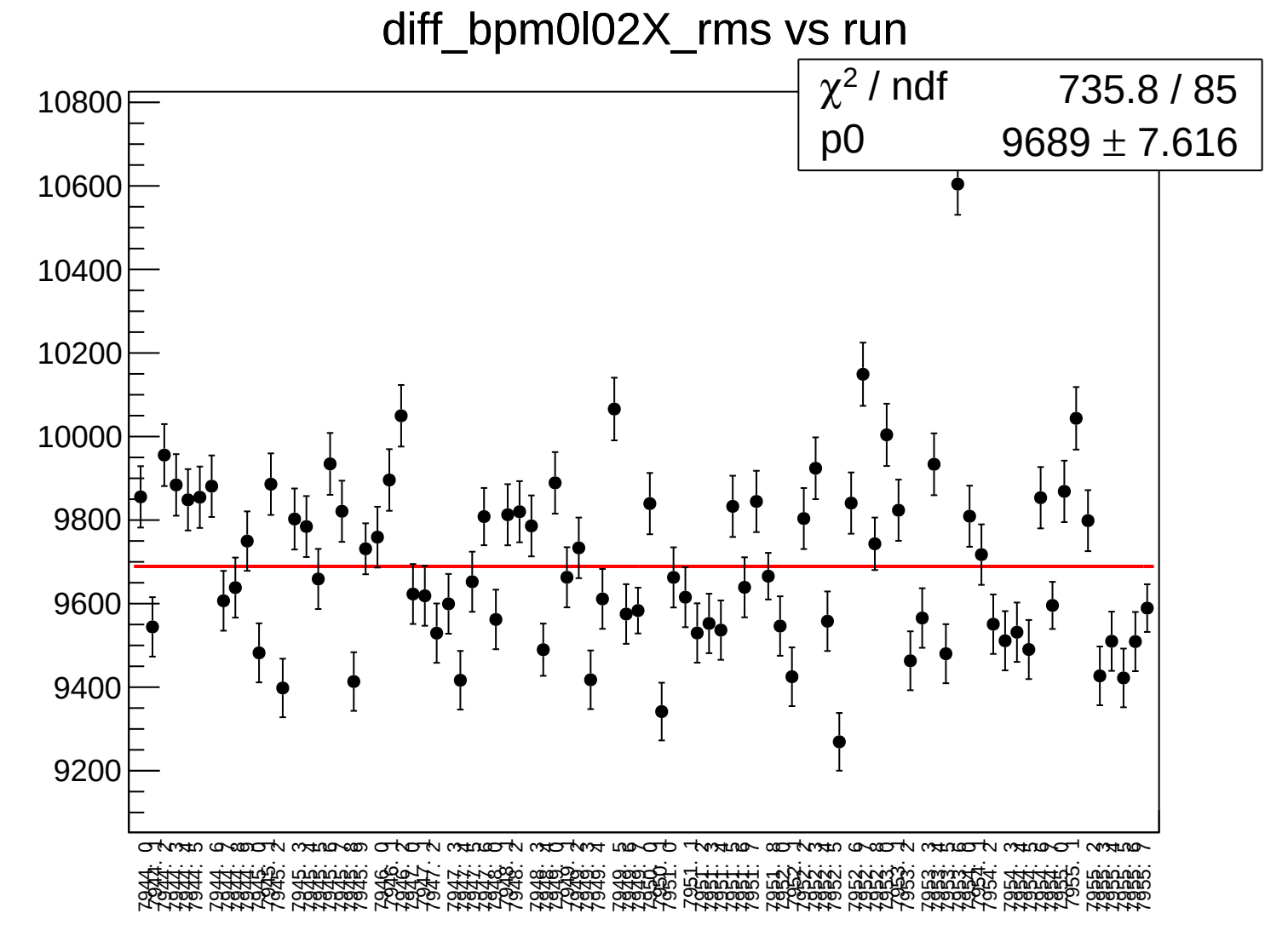

diff_bpm0l01Y_mean vs run
χ² / ndf 96.83 / 85
p0 −2.804 ± 2.352
pull
Entries 86
Mean −1832
Std Dev 0

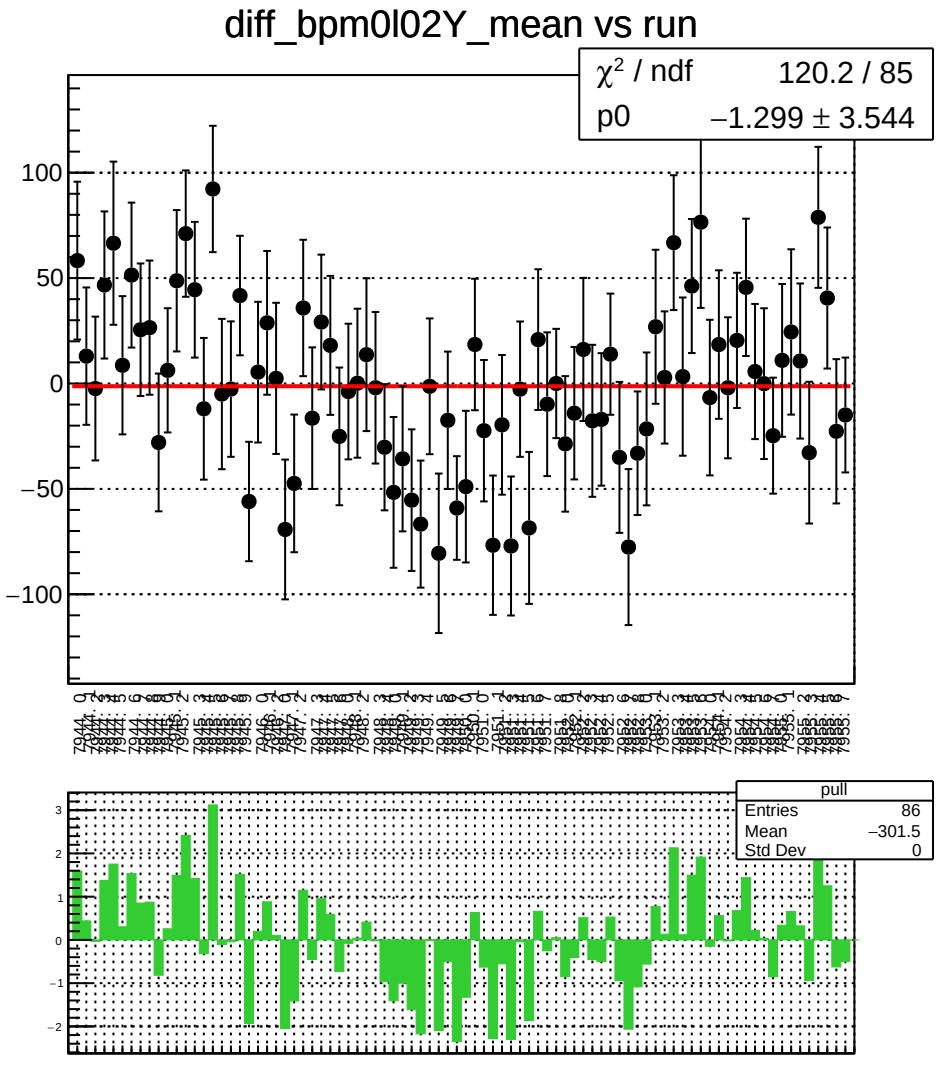

pull1D
Entries 86
Mean 0.003033
Std Dev 1.061

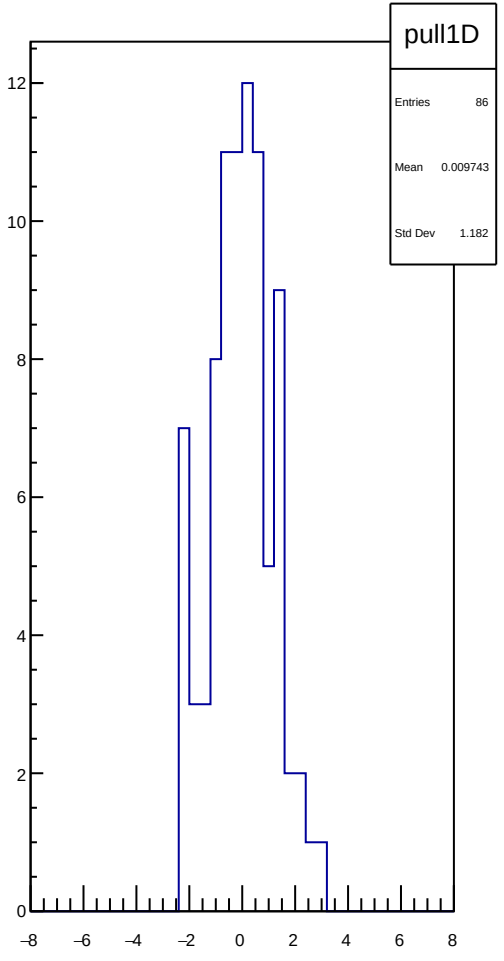

diff_bpm0l01Y_rms vs run
χ² / ndf 3901 / 85
p0 2114 ± 1.663
2700
2600
2500
2400
2300
2200
2100
2000
1900

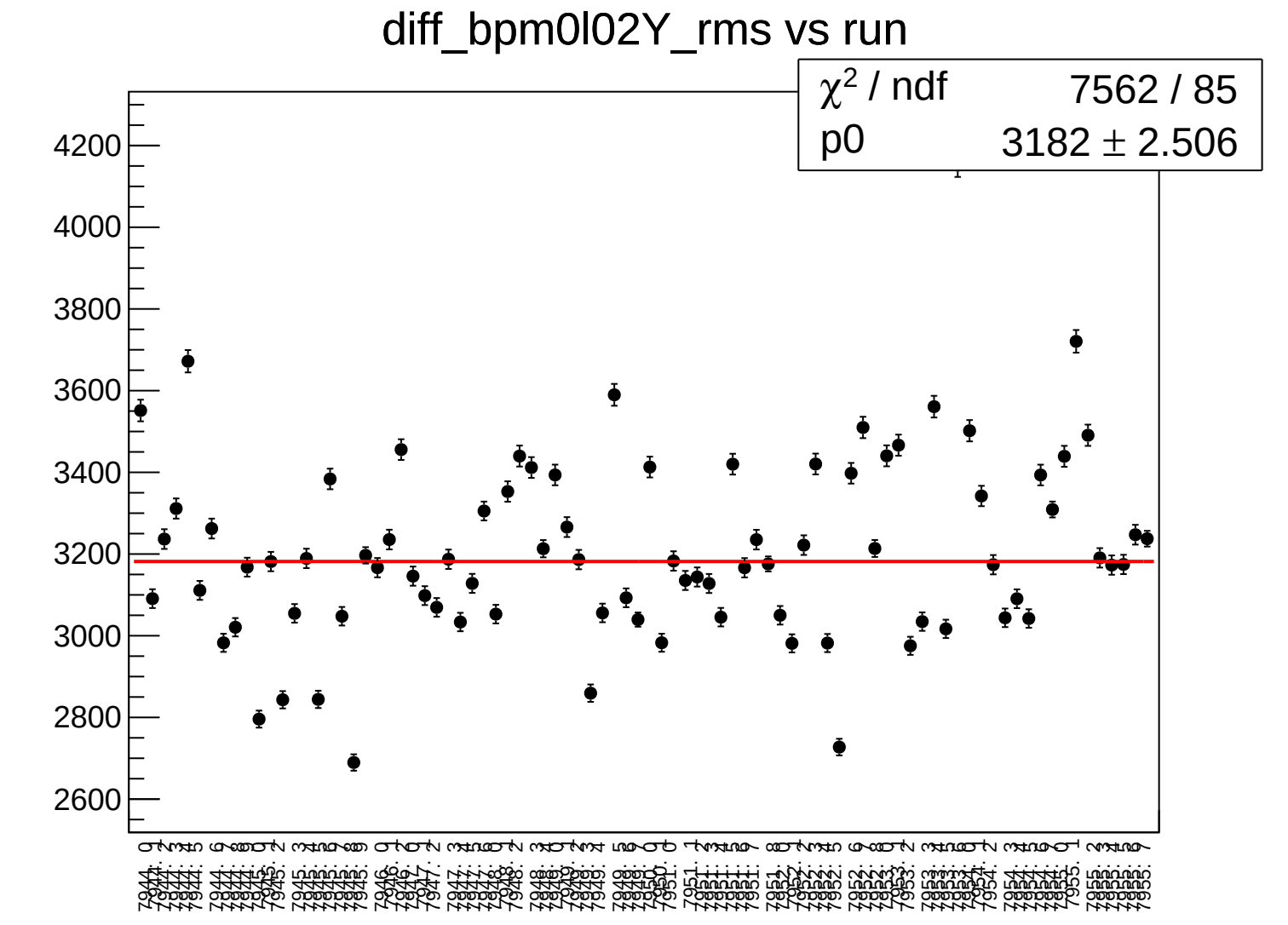

diff_bpm0l02X_mean vs run
χ² / ndf 80.08 / 85
p0 −62.23 ± 10.77
pull
Entries 86
Mean −2528
Std Dev 0

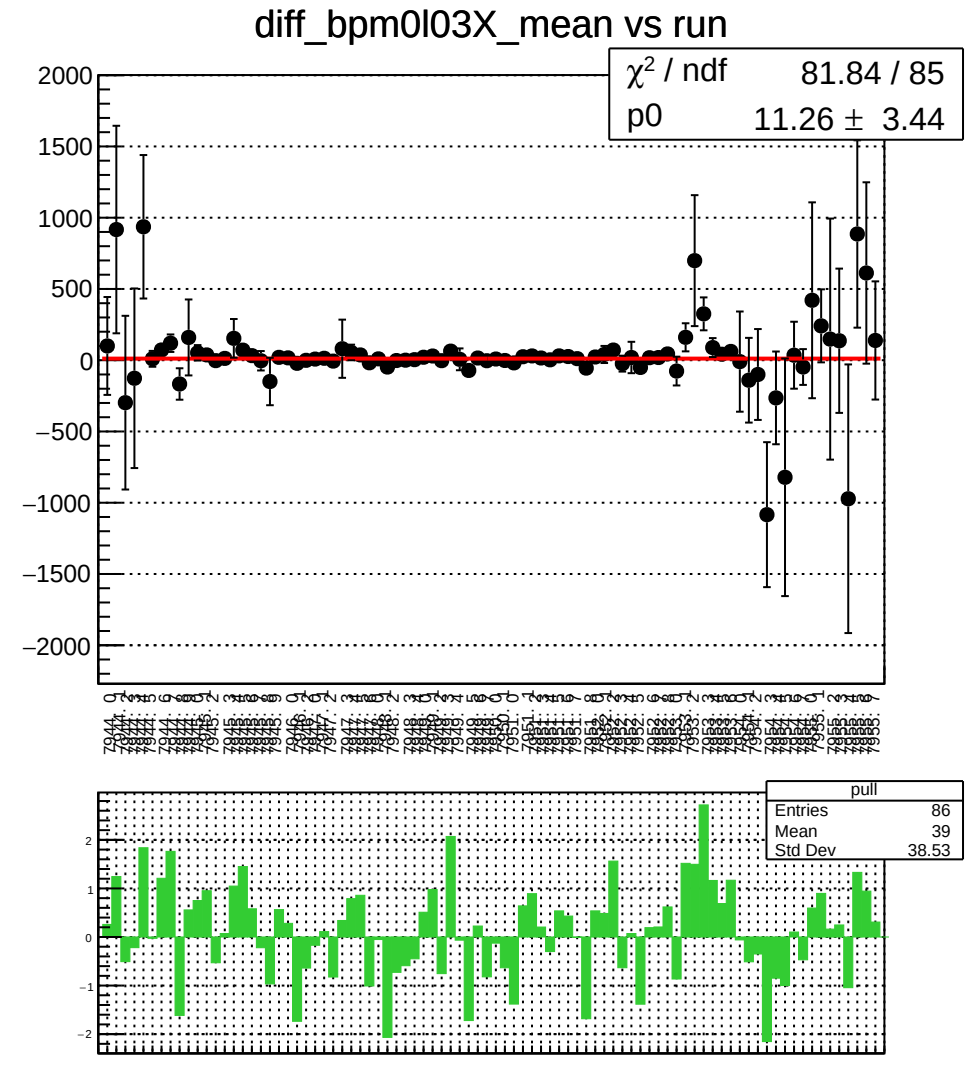

pull1D
Entries 86
Mean −0.001862
Std Dev 0.965

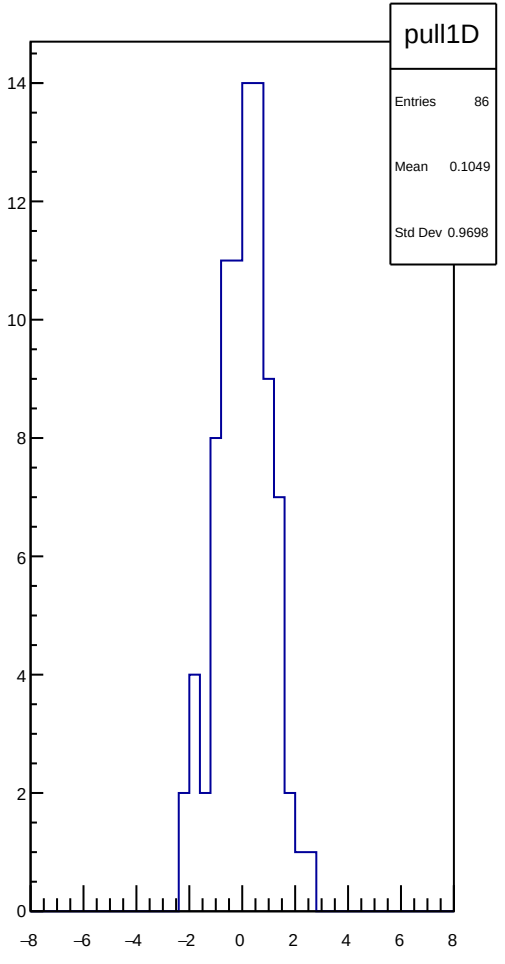

diff_bpm0l02X_rms vs run
χ² / ndf 735.8 / 85
p0 9689 ± 7.616
10800
10600
10400
10200
10000
9800
9600
9400
9200

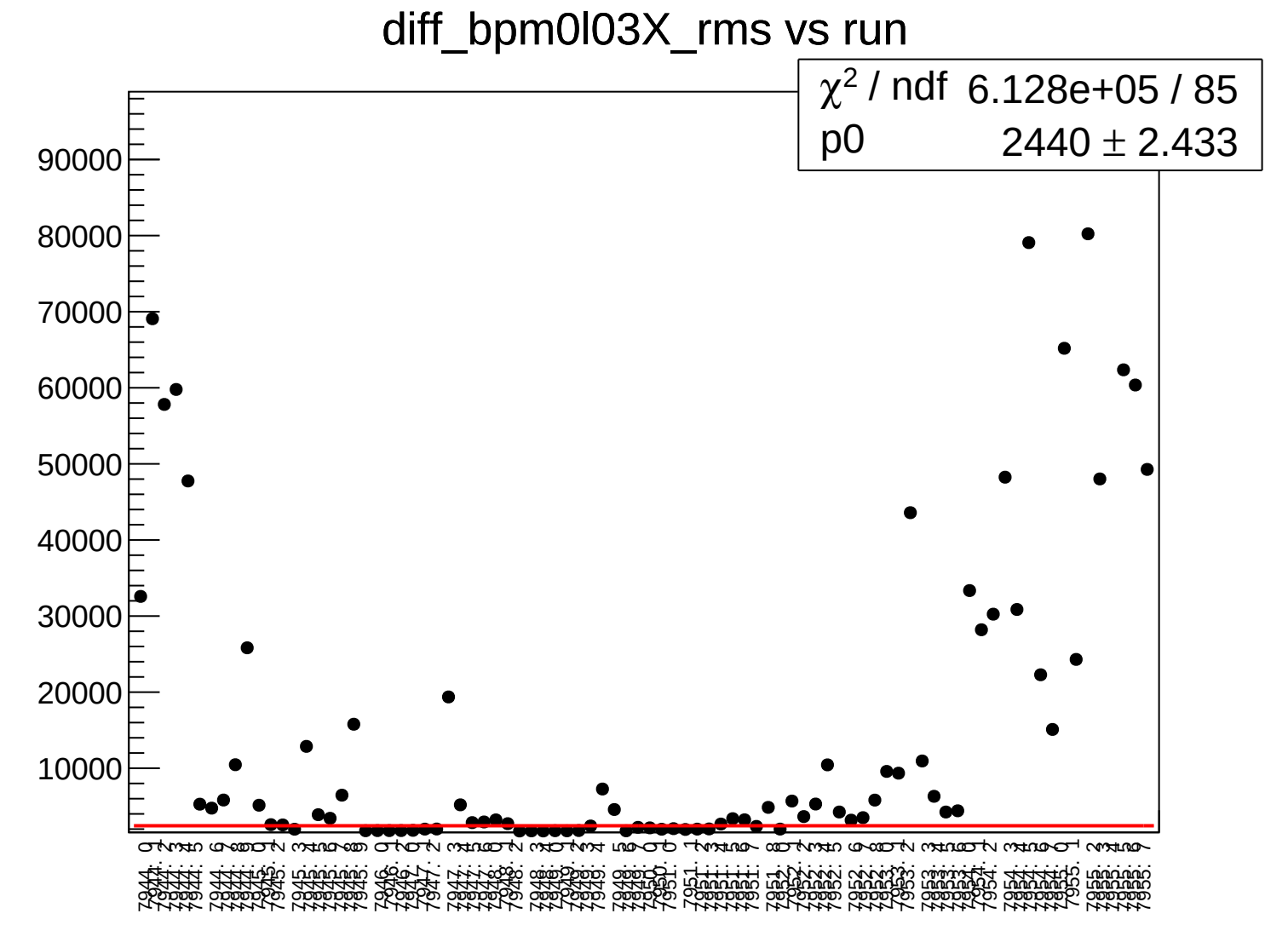

diff_bpm0l02Y_mean vs run
χ² / ndf 120.2 / 85
p0 −1.299 ± 3.544
100
50
0
−50
−100
pull
Entries 86
Mean −301.5
Std Dev 0
3
2
1
0
−1
−2

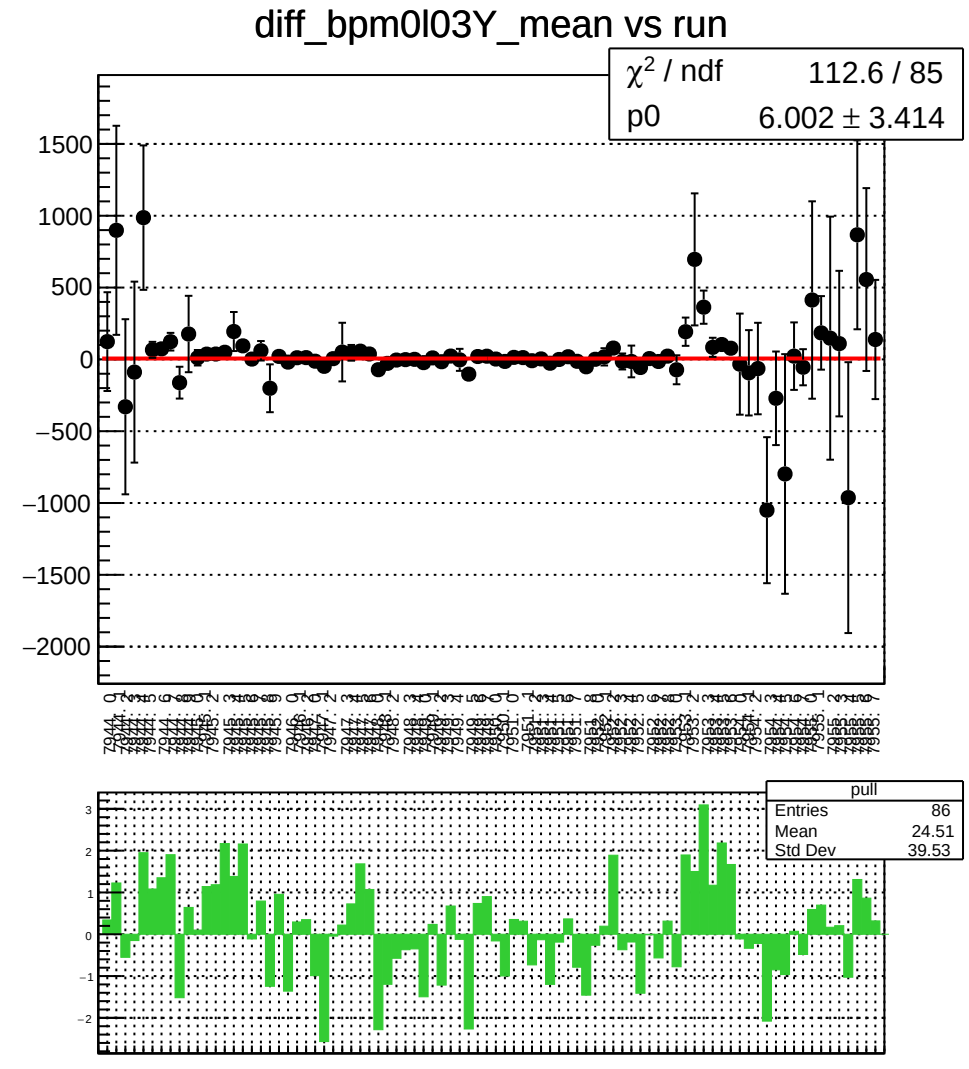

pull1D
Entries 86
Mean 0.009743
Std Dev 1.182
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

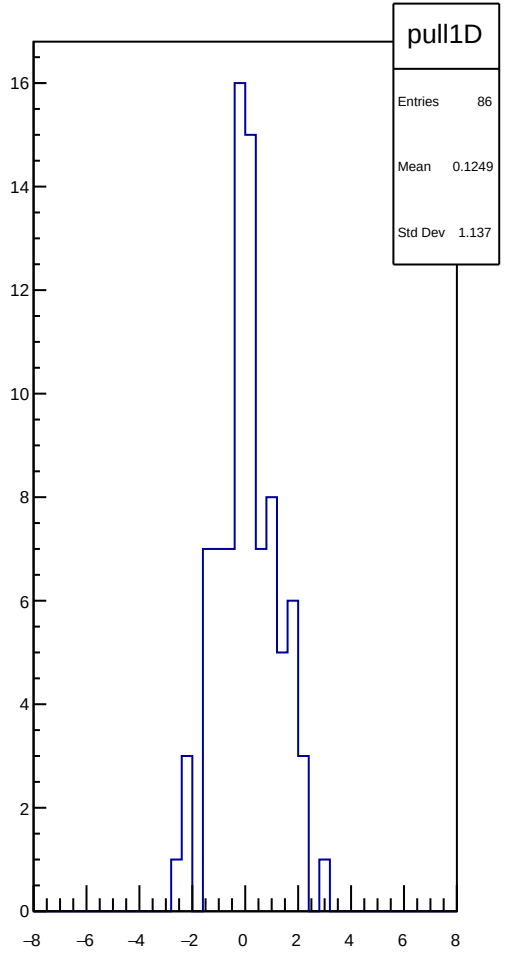

diff_bpm0l02Y_rms vs run
χ² / ndf 7562 / 85
p0 3182 ± 2.506
4200
4000
3800
3600
3400
3200
3000
2800
2600

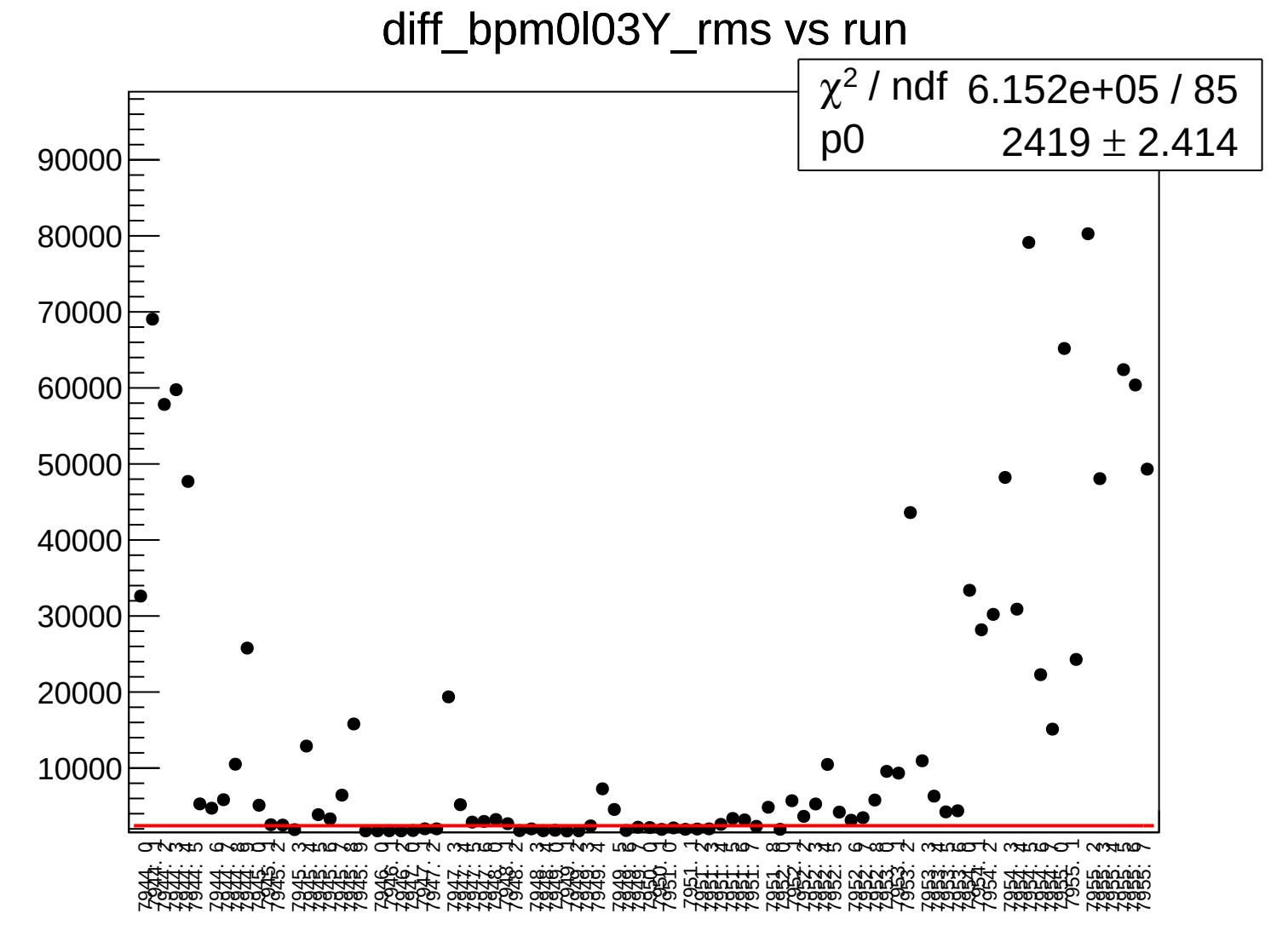

diff_bpm0l03X_mean vs run
χ^2 / ndf 81.84 / 85
p0 11.26 ± 3.44
pull
Entries 86
Mean 39
Std Dev 38.53

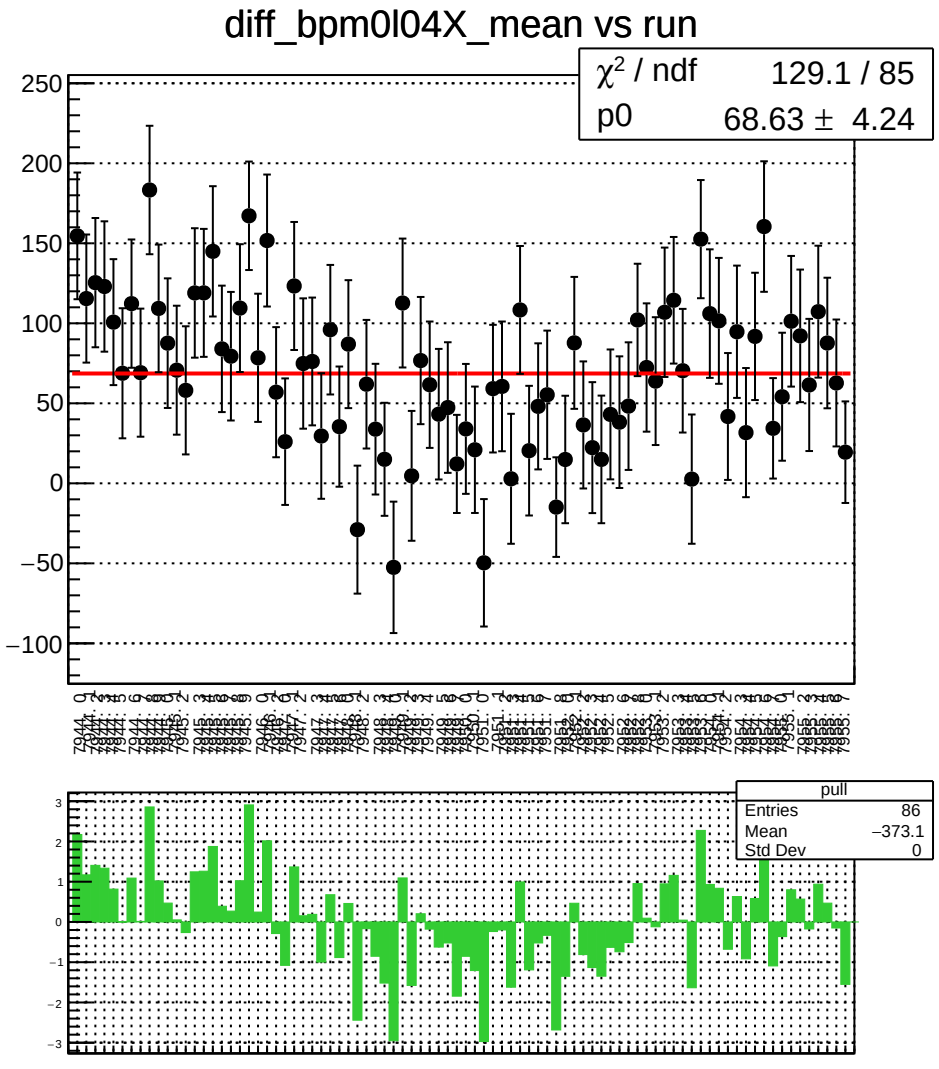

pull1D
Entries 86
Mean 0.1049
Std Dev 0.9698

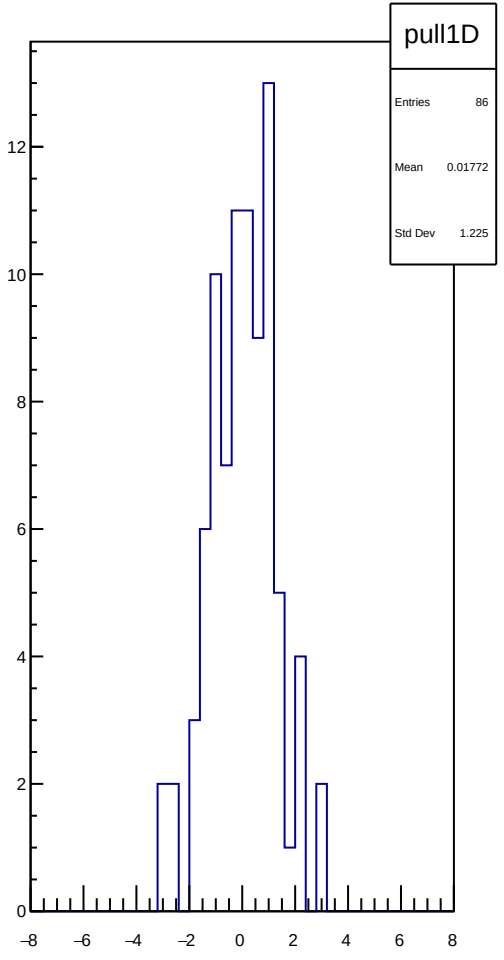

diff_bpm0l03X_rms vs run
χ^2 / ndf 6.128e+05 / 85
p0 2440 ± 2.433
90000
80000
70000
60000
50000
40000
30000
20000
10000

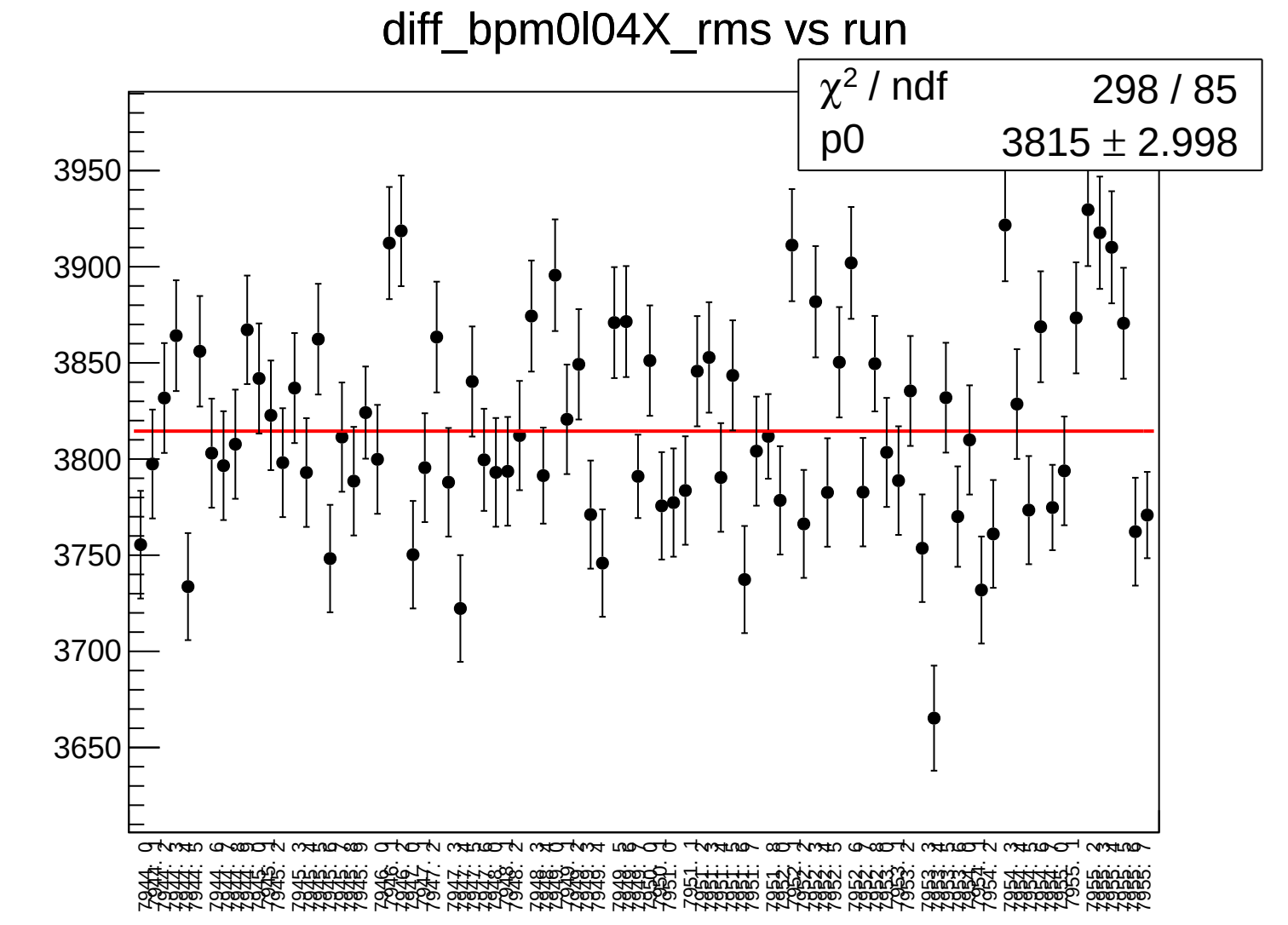

diff_bpm0l03Y_mean vs run
χ² / ndf 112.6 / 85
p0 6.002 ± 3.414
pull
Entries 86
Mean 24.51
Std Dev 39.53

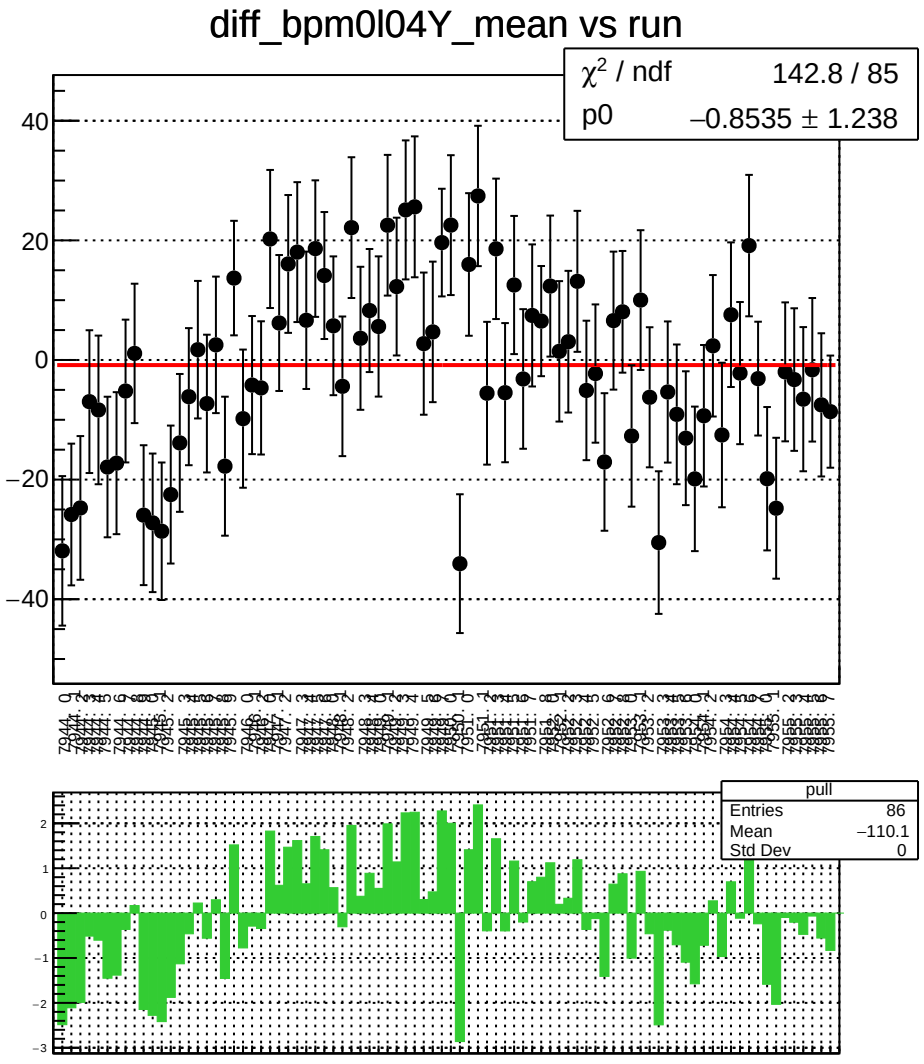

pull1D
Entries 86
Mean 0.1249
Std Dev 1.137

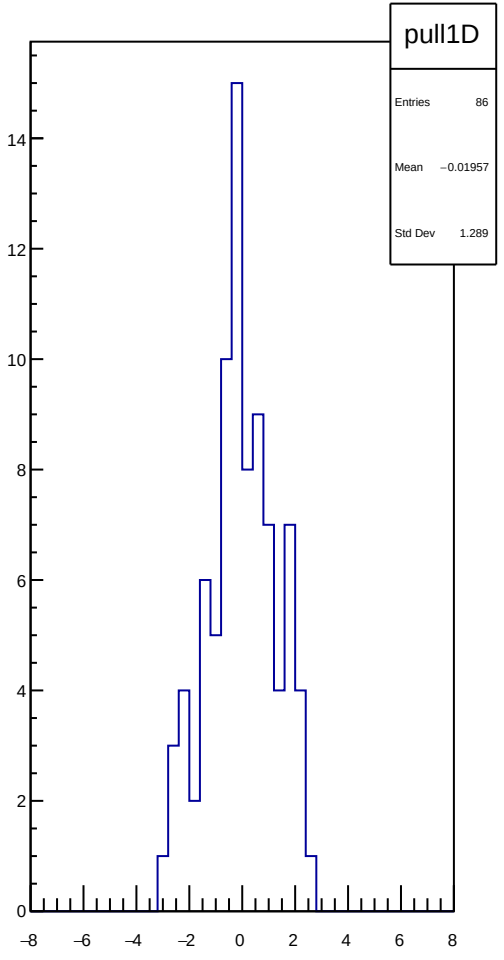

diff_bpm0l03Y_rms vs run
χ^2 / ndf 6.152e+05 / 85
p0 2419 ± 2.414
90000
80000
70000
60000
50000
40000
30000
20000
10000

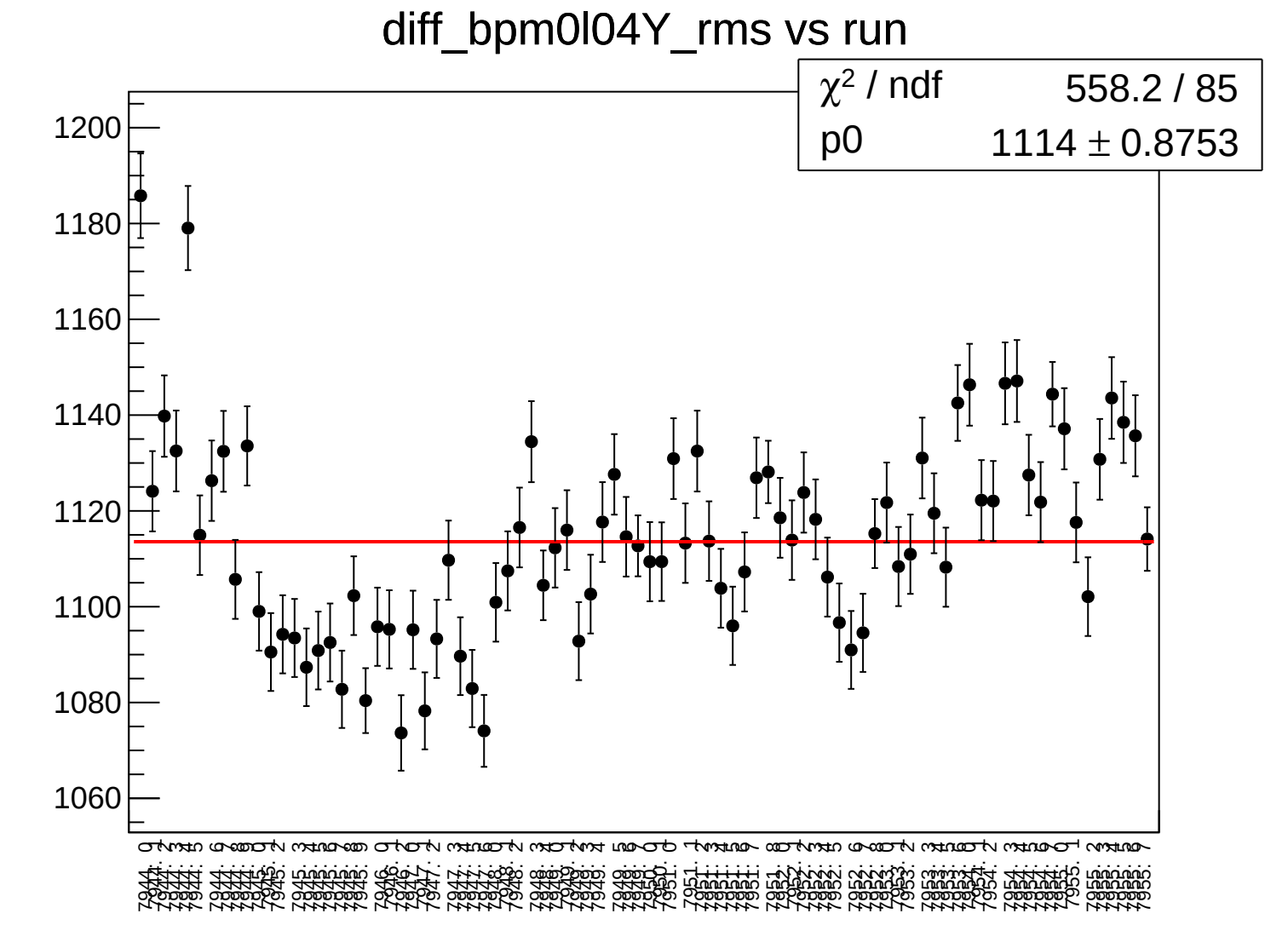

diff_bpm0l04X_mean vs run
χ² / ndf 129.1 / 85
p0 68.63 ± 4.24
pull
Entries 86
Mean −373.1
Std Dev 0

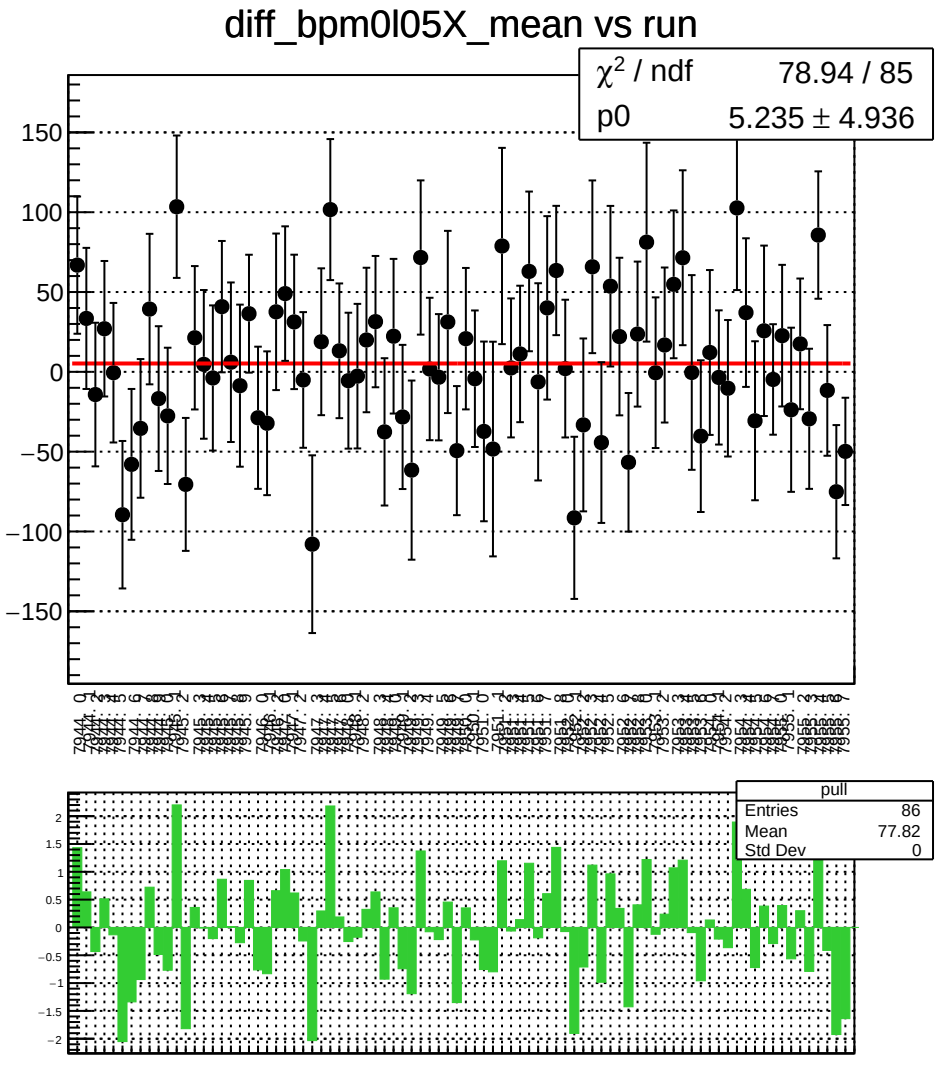

pull1D
Entries 86
Mean 0.01772
Std Dev 1.225

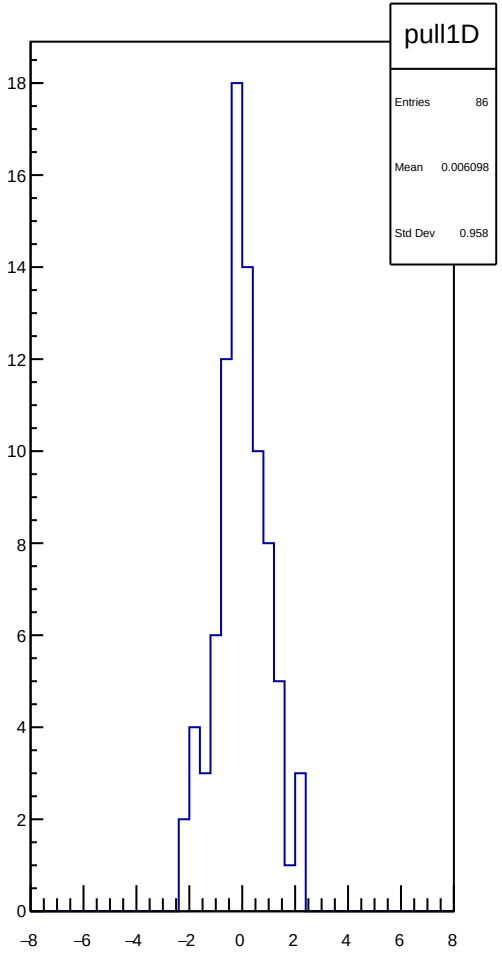

diff_bpm0l04X_rms vs run
χ² / ndf 298 / 85
p0 3815 ± 2.998
3950
3900
3850
3800
3750
3700
3650

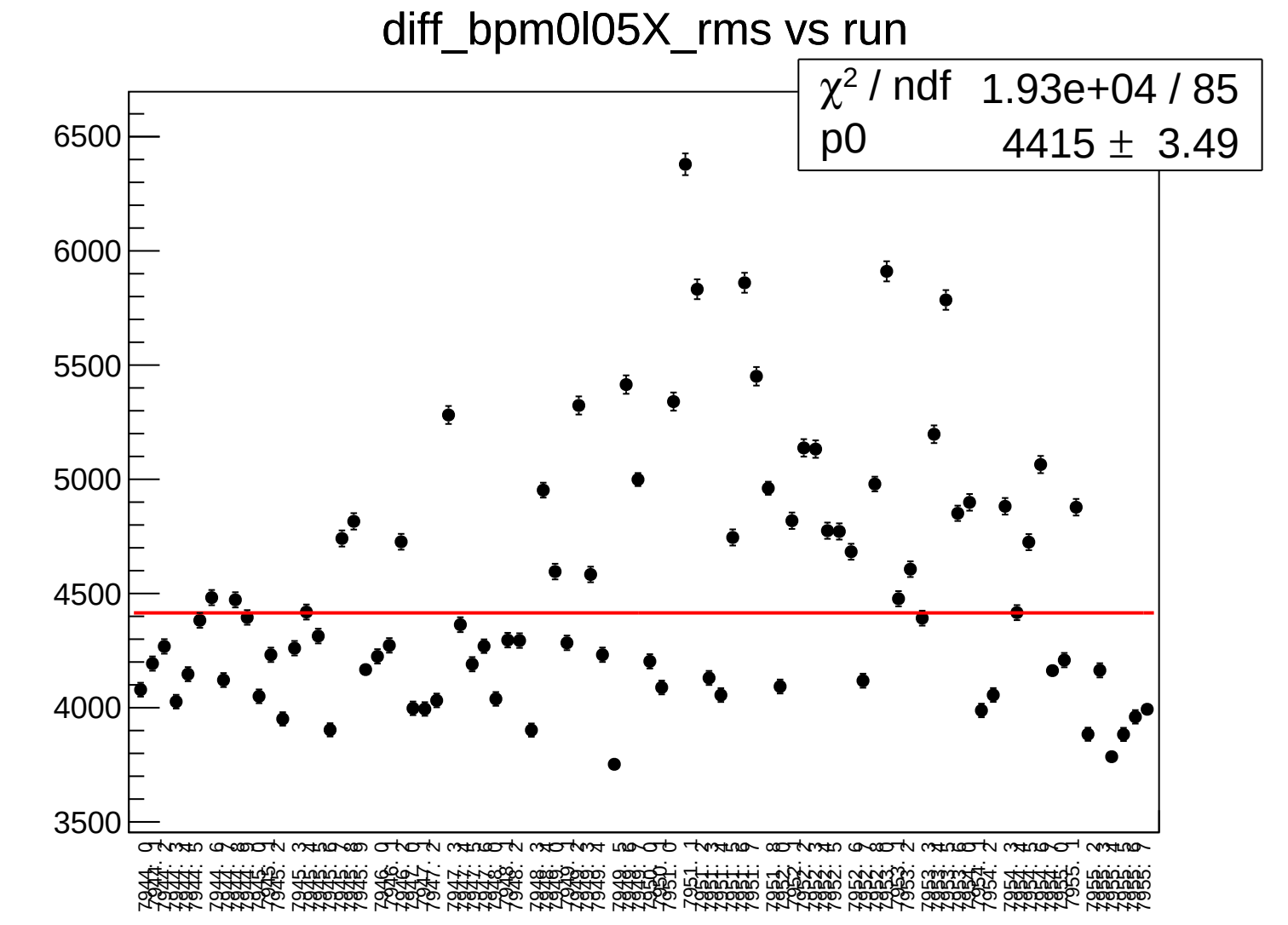

diff_bpm0l04Y_mean vs run
χ² / ndf 142.8 / 85
p0 −0.8535 ± 1.238
pull
Entries 86
Mean −110.1
Std Dev 0

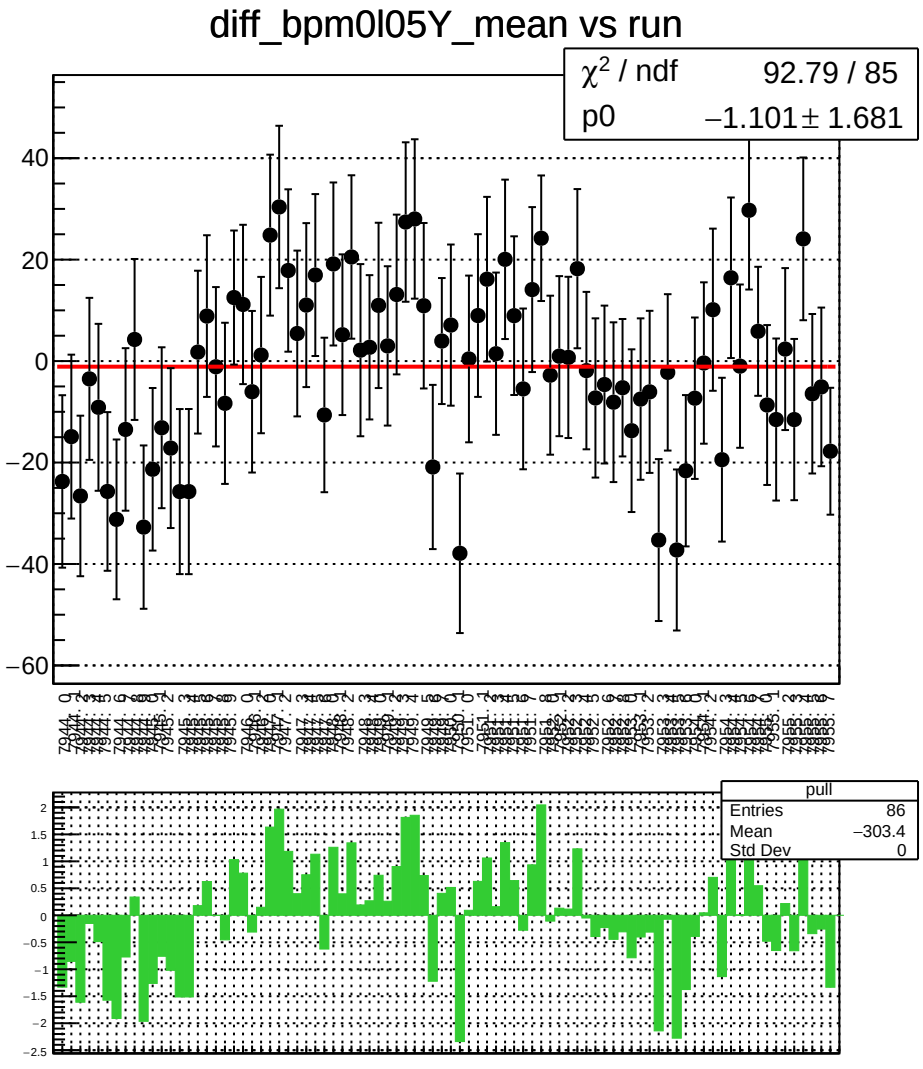

pull1D
Entries 86
Mean −0.01957
Std Dev 1.289

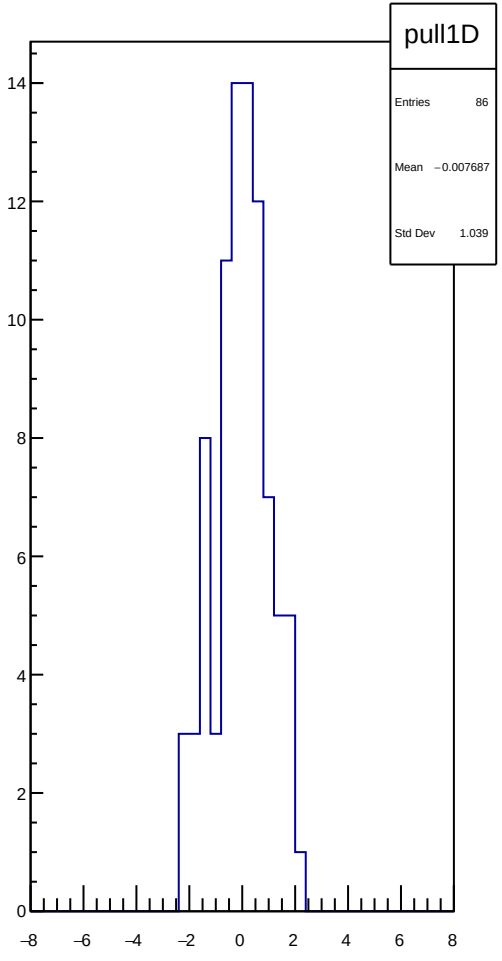

diff_bpm0l04Y_rms vs run
χ² / ndf 558.2 / 85
p0 1114 ± 0.8753
1200
1180
1160
1140
1120
1100
1080
1060

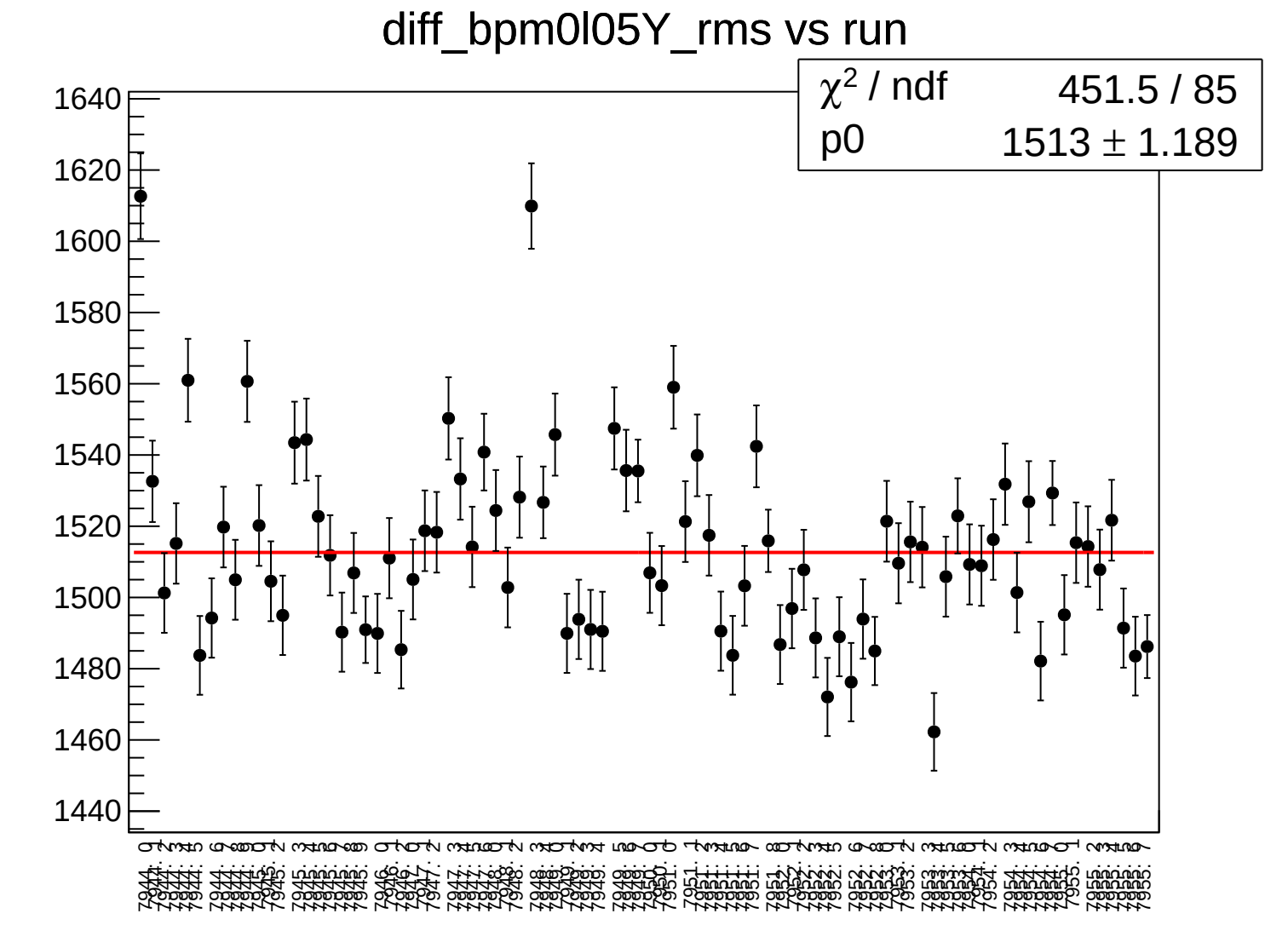

diff_bpm0l05X_mean vs run
χ^2 / ndf 78.94 / 85
p0 5.235 ± 4.936
pull
Entries 86
Mean 77.82
Std Dev 0

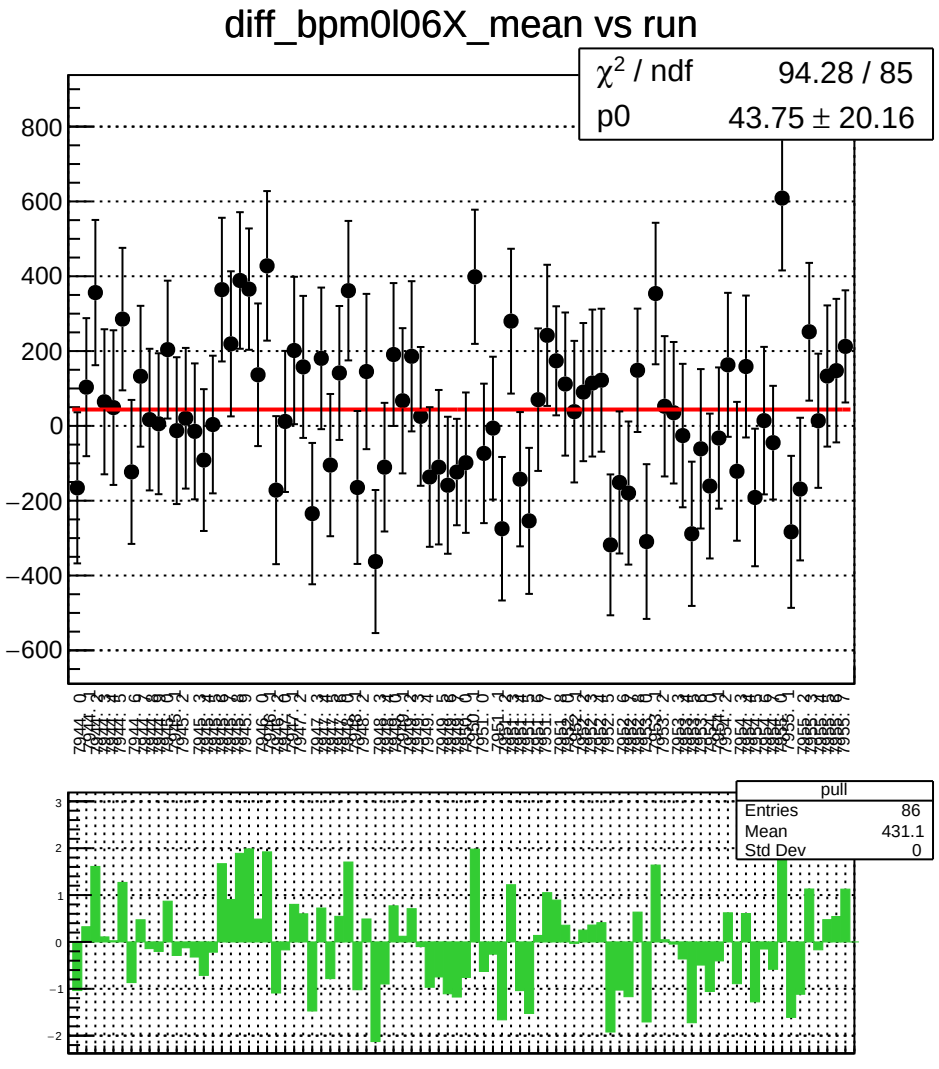

pull1D
Entries 86
Mean 0.006098
Std Dev 0.958

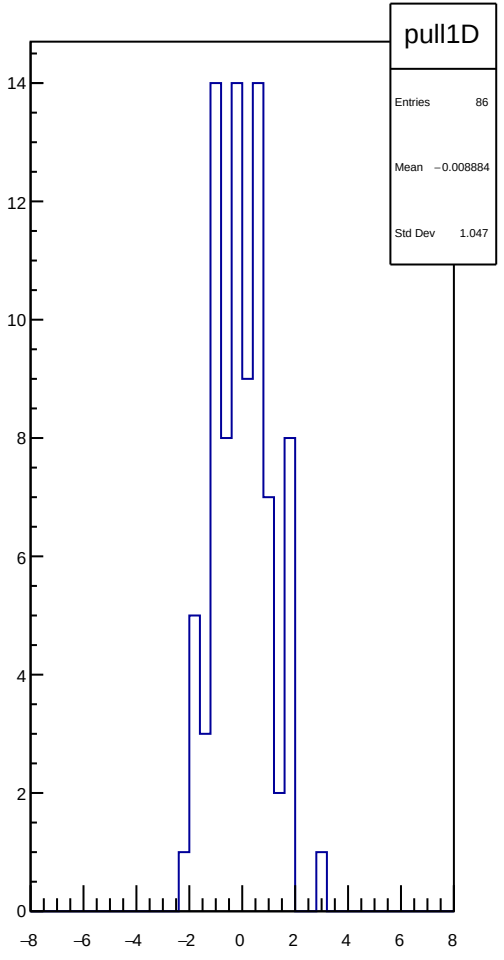

diff_bpm0l05X_rms vs run
χ² / ndf 1.93e+04 / 85
p0 4415 ± 3.49
6500
6000
5500
5000
4500
4000
3500

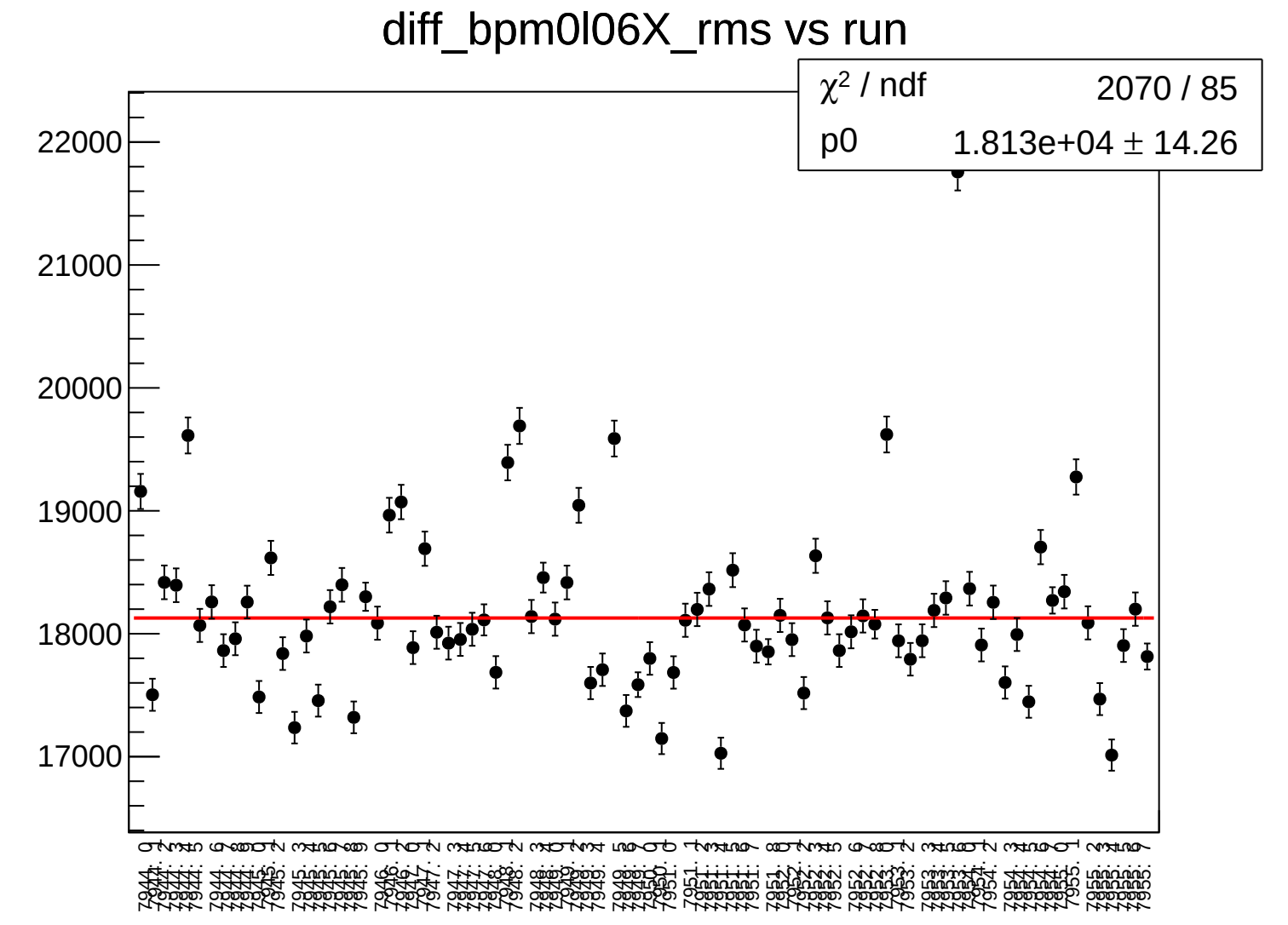

diff_bpm0l05Y_mean vs run
χ² / ndf 92.79 / 85
p0 −1.101 ± 1.681
pull
Entries 86
Mean −303.4
Std Dev 0

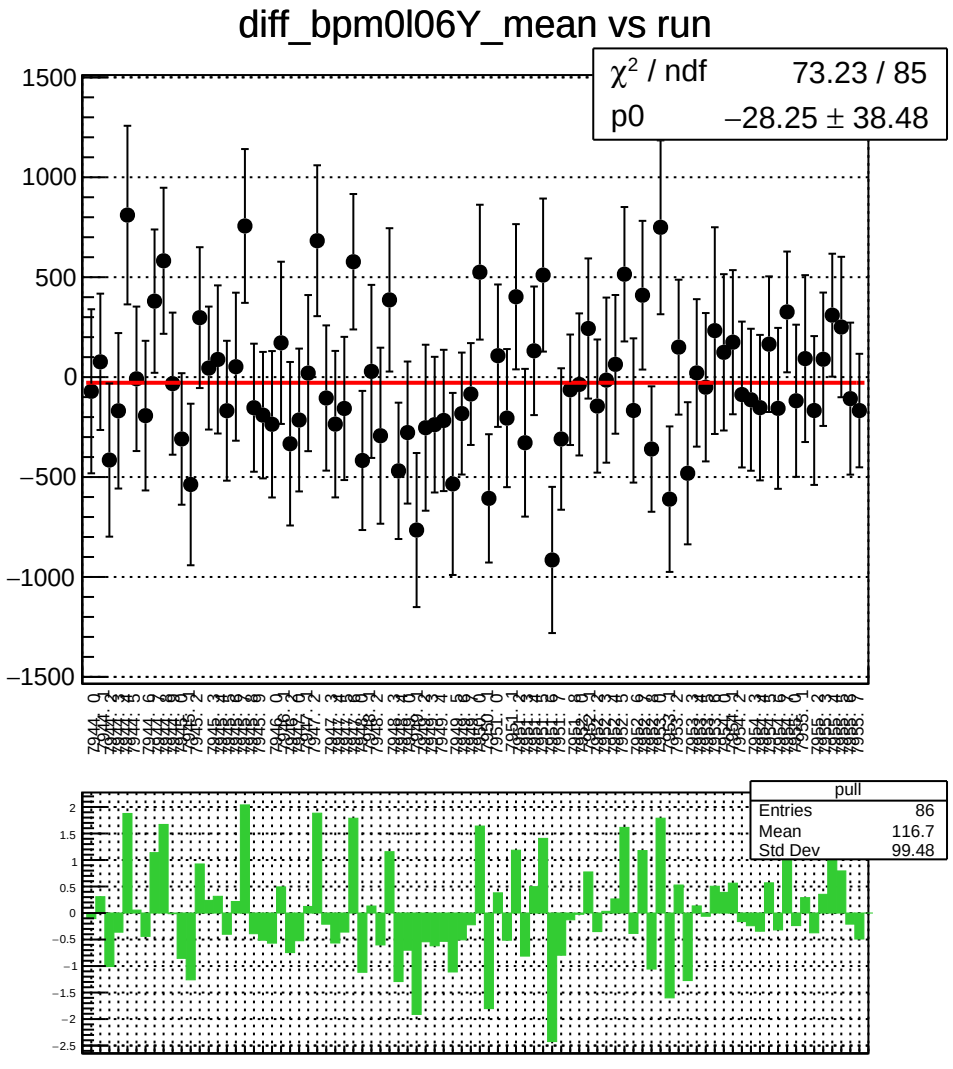

pull1D
Entries 86
Mean −0.007687
Std Dev 1.039

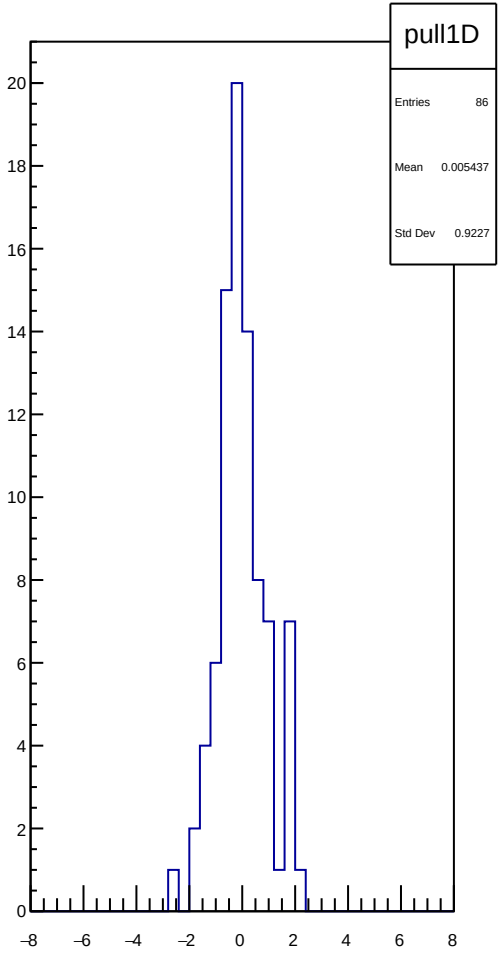

diff_bpm0l05Y_rms vs run
χ² / ndf 451.5 / 85
p0 1513 ± 1.189
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440

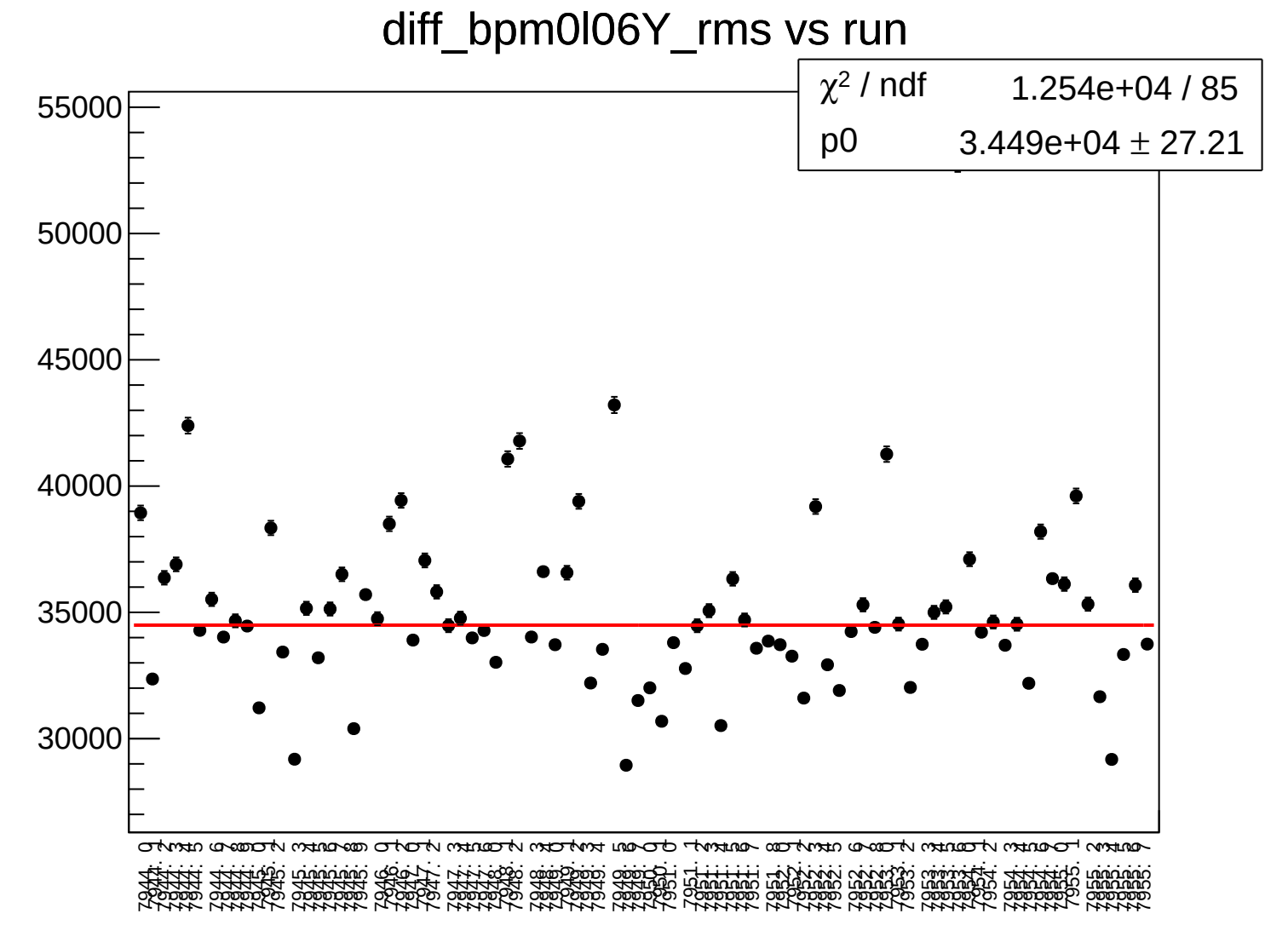

diff_bpm0l06X_mean vs run
χ^2 / ndf 94.28 / 85
p0 43.75 ± 20.16
pull
Entries 86
Mean 431.1
Std Dev 0

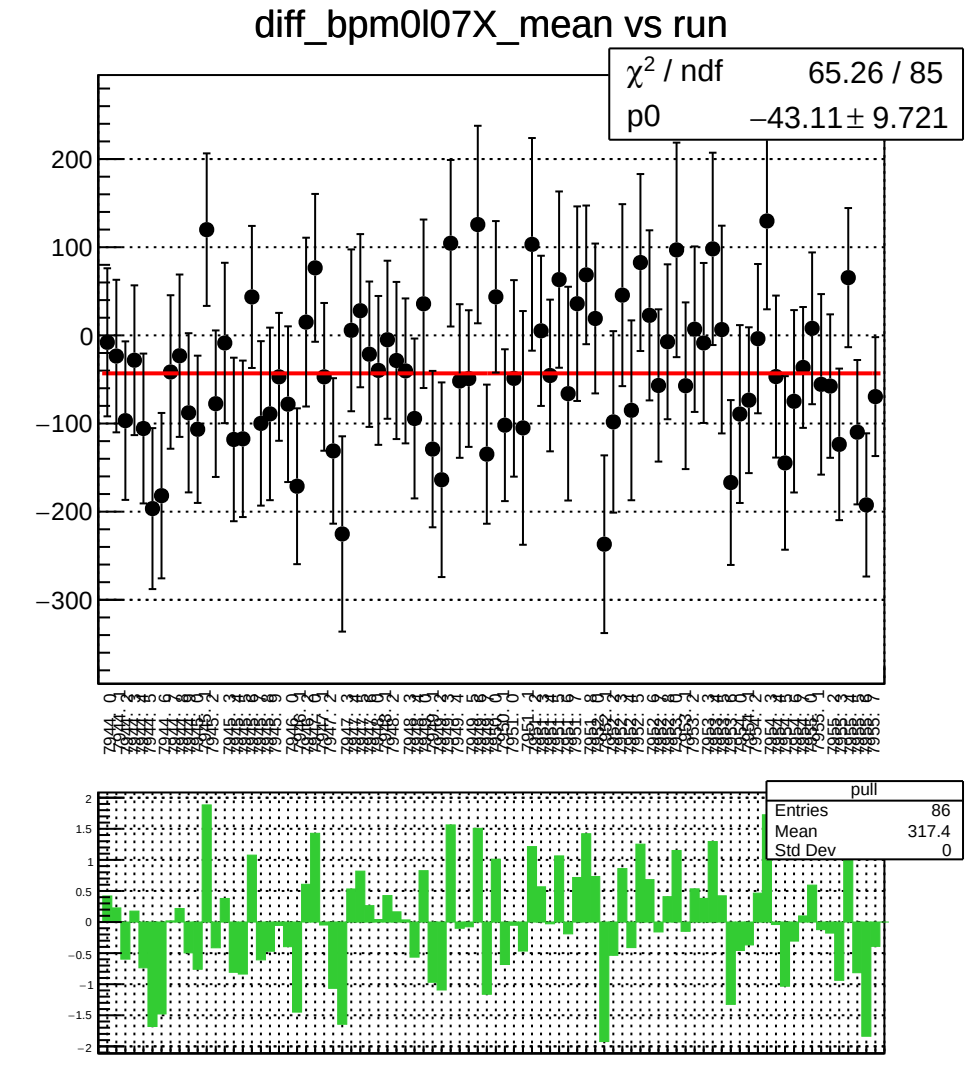

pull1D
Entries 86
Mean −0.008884
Std Dev 1.047

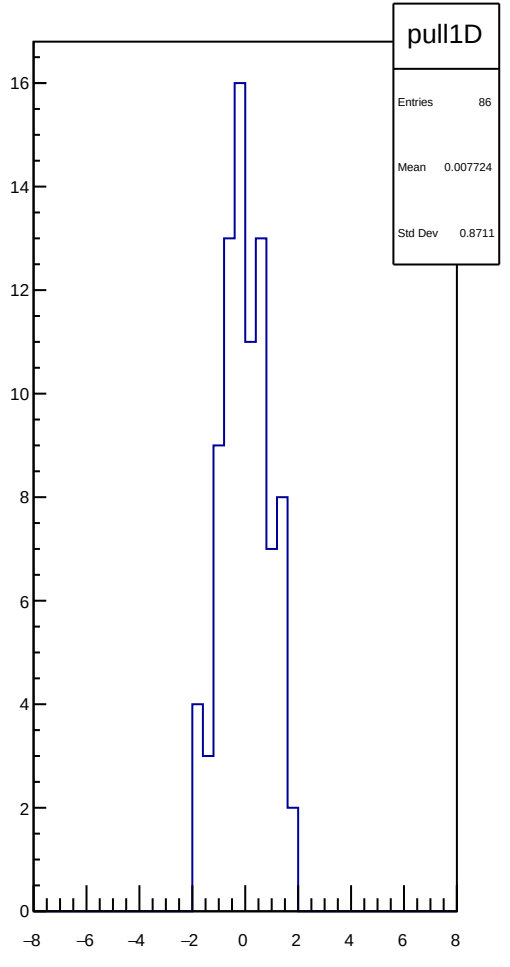

diff_bpm0l06X_rms vs run
χ² / ndf 2070 / 85
p0 1.813e+04 ± 14.26
22000
21000
20000
19000
18000
17000

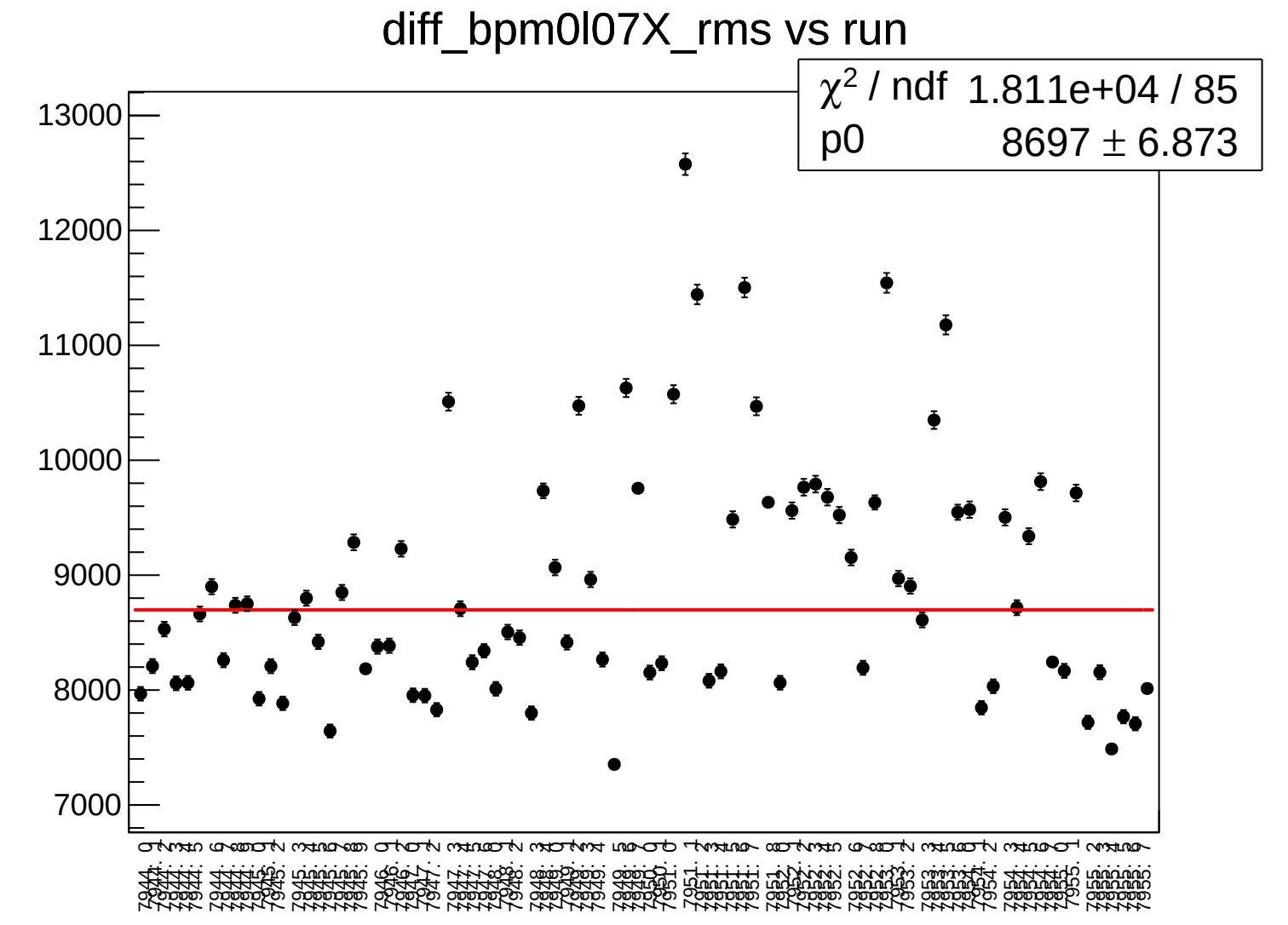

diff_bpm0l06Y_mean vs run
χ² / ndf 73.23 / 85
p0 −28.25 ± 38.48
pull
Entries 86
Mean 116.7
Std Dev 99.48

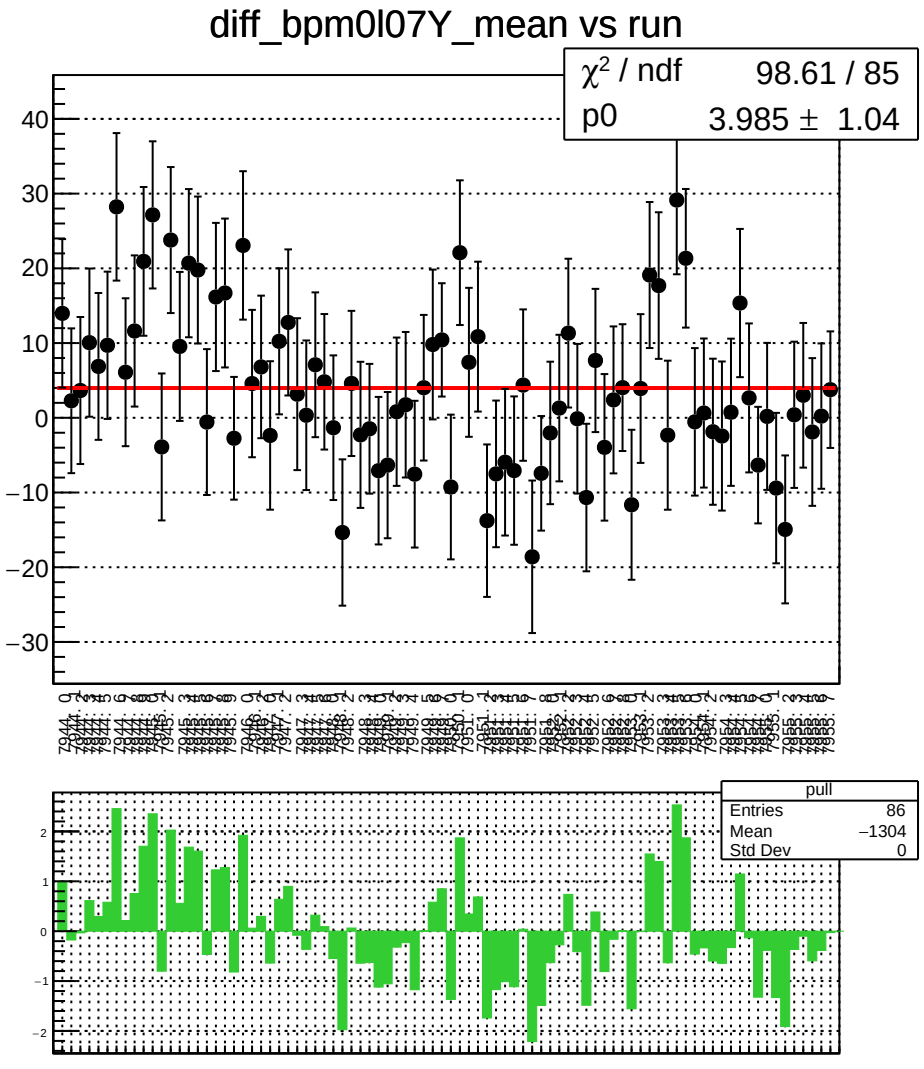

pull1D
Entries 86
Mean 0.005437
Std Dev 0.9227

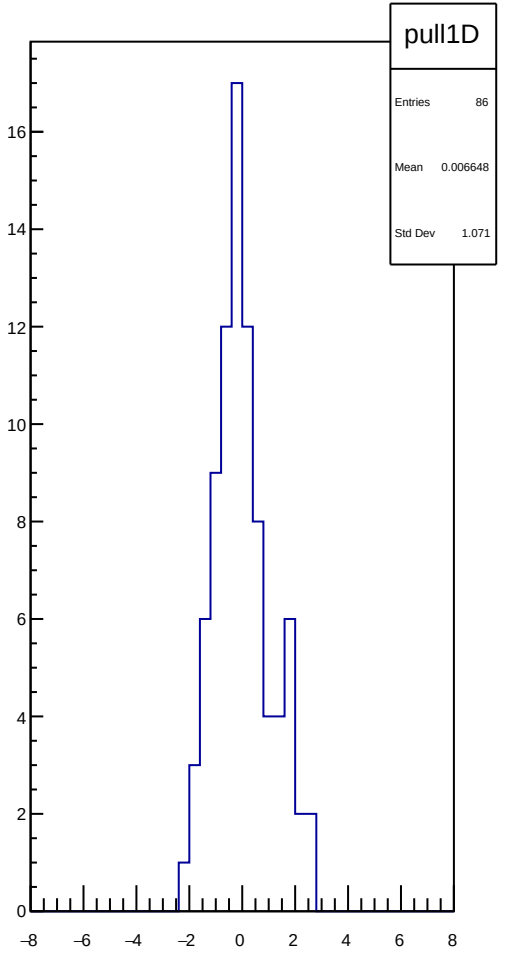

diff_bpm0l06Y_rms vs run
χ² / ndf 1.254e+04 / 85
p0 3.449e+04 ± 27.21
55000
50000
45000
40000
35000
30000

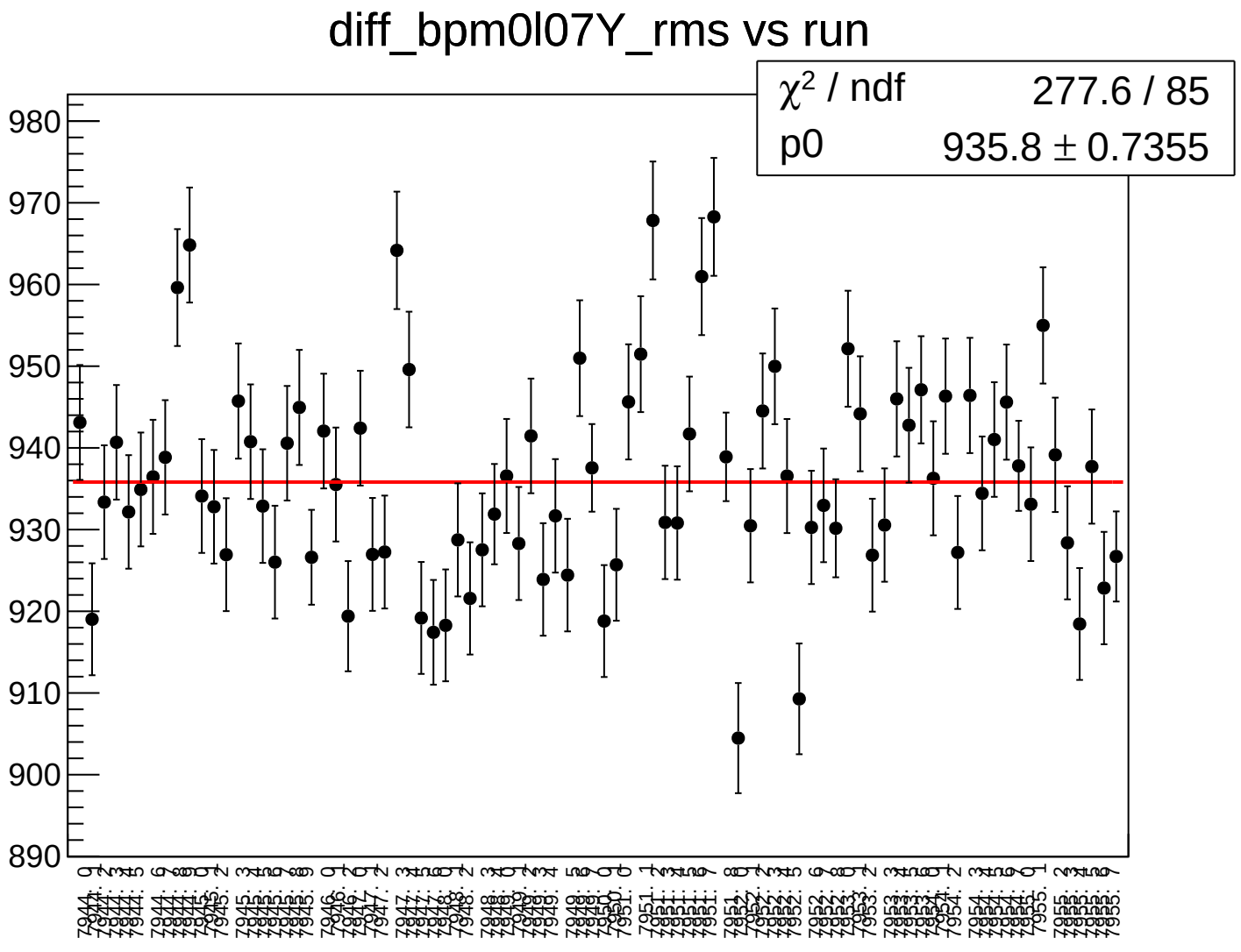

diff_bpm0l07X_mean vs run
χ² / ndf 65.26 / 85
p0 −43.11 ± 9.721
200
100
0
−100
−200
−300
pull
Entries 86
Mean 317.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

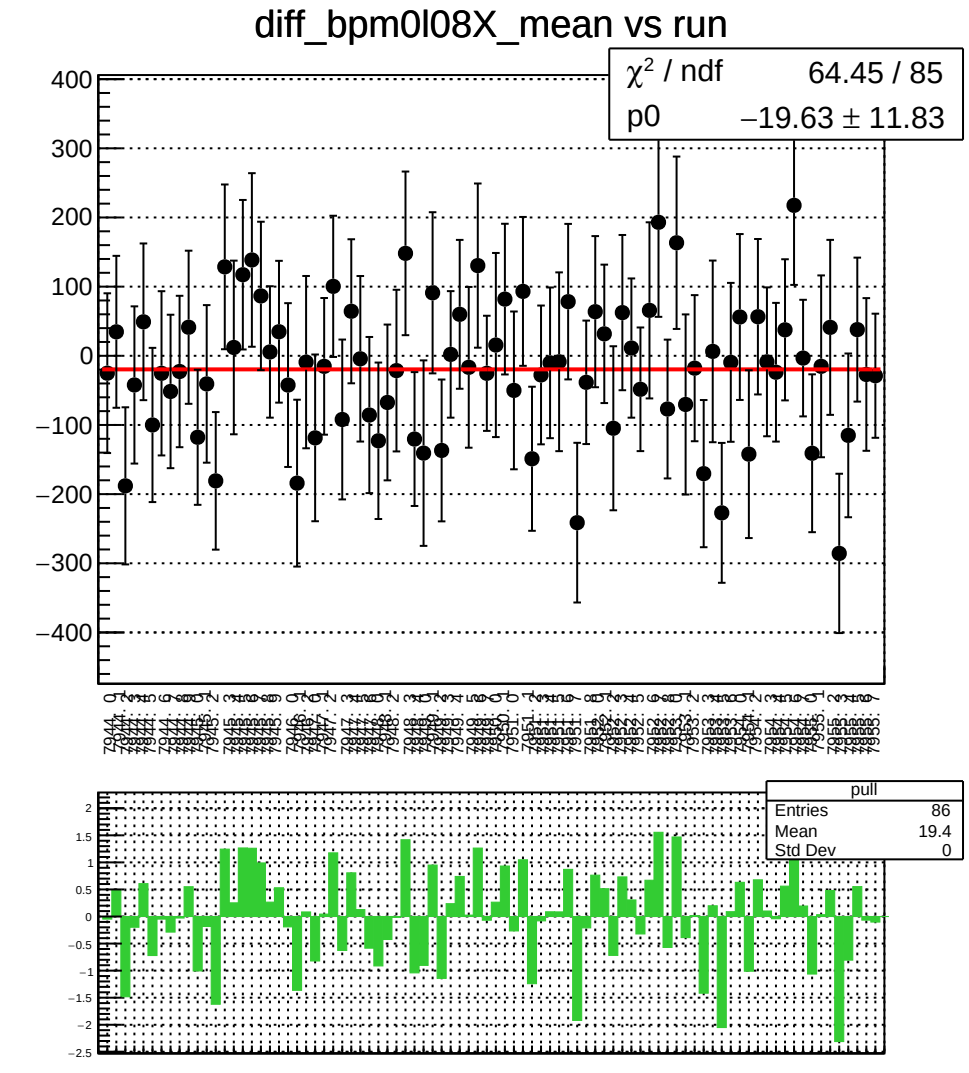

pull1D
Entries 86
Mean 0.007724
Std Dev 0.8711
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

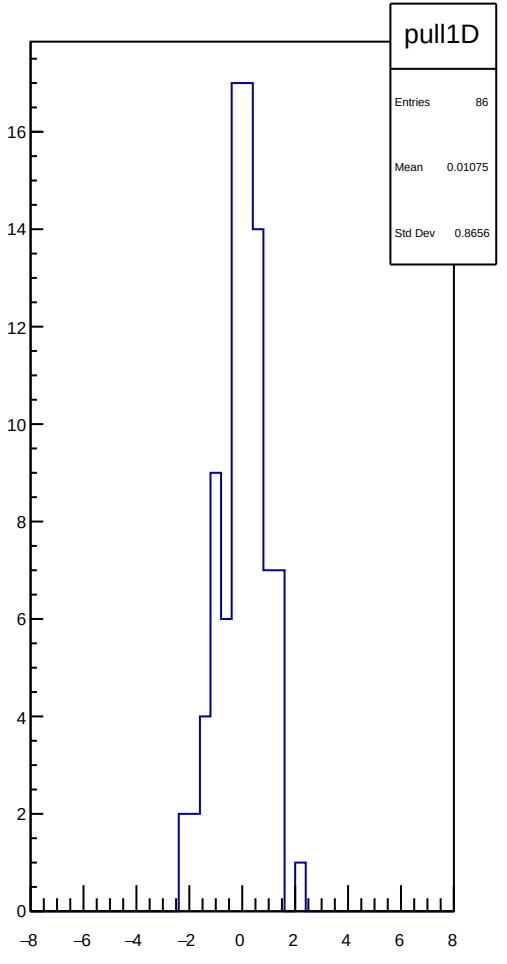

diff_bpm0l07X_rms vs run
χ² / ndf 1.811e+04 / 85
p0 8697 ± 6.873
13000
12000
11000
10000
9000
8000
7000

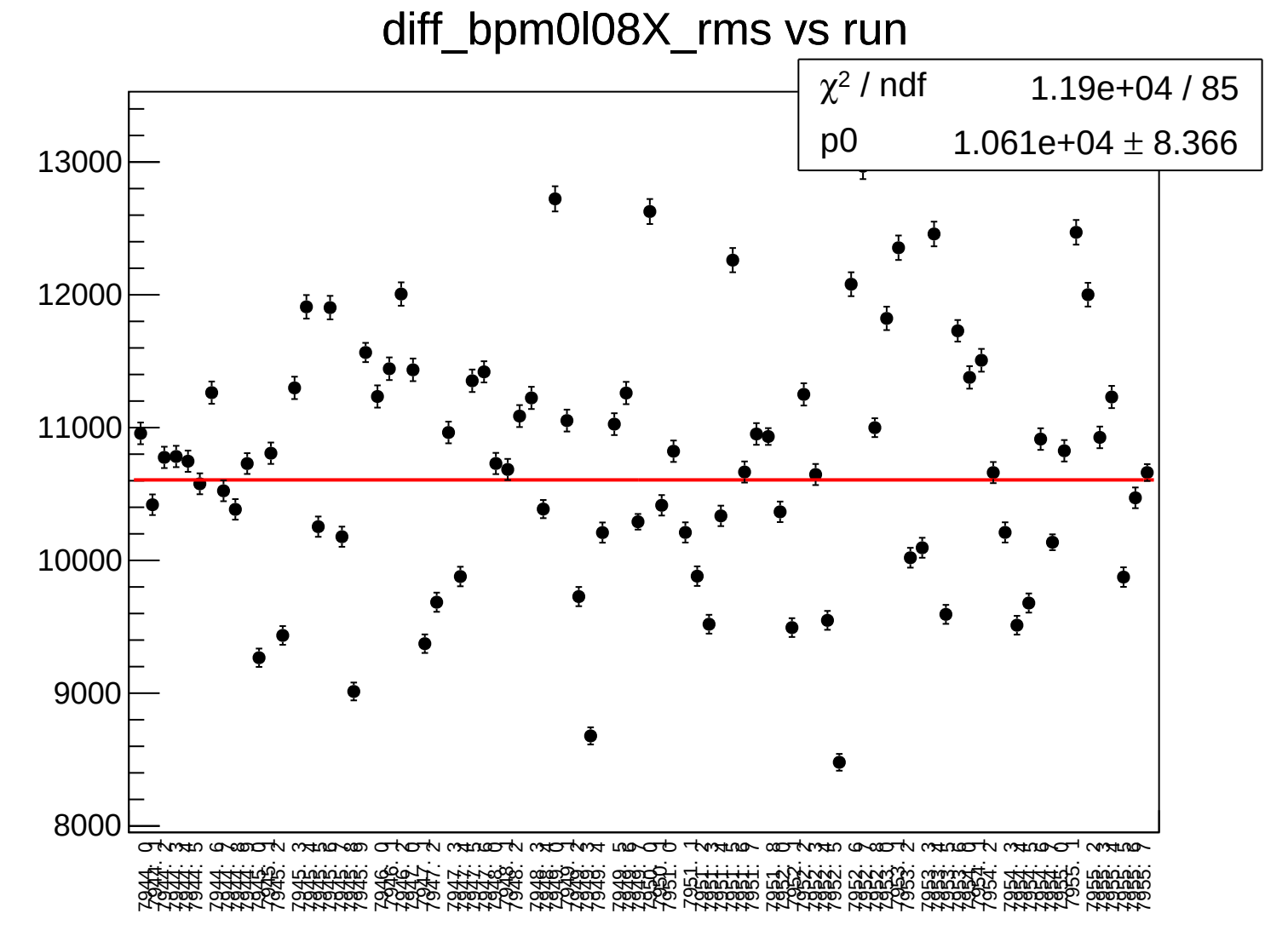

diff_bpm0l07Y_mean vs run
χ² / ndf 98.61 / 85
p0 3.985 ± 1.04
pull
Entries 86
Mean −1304
Std Dev 0

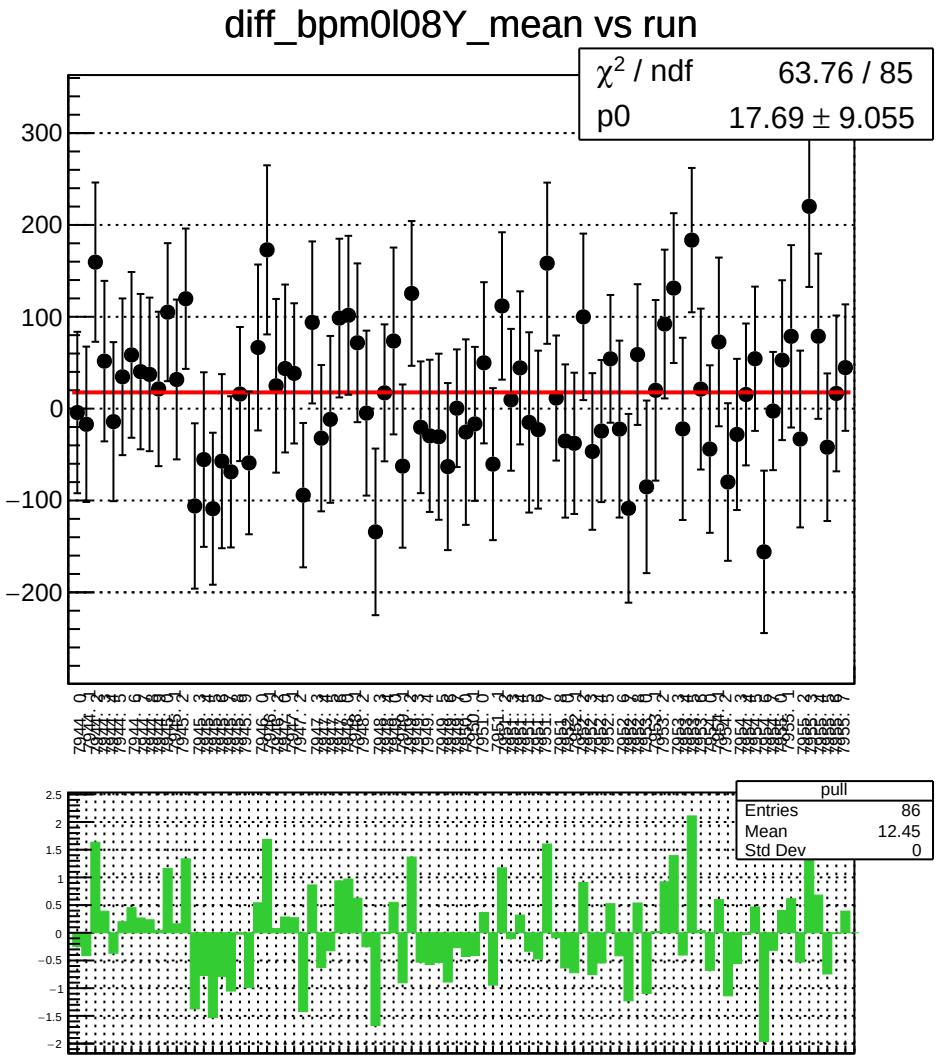

pull1D
Entries 86
Mean 0.006648
Std Dev 1.071

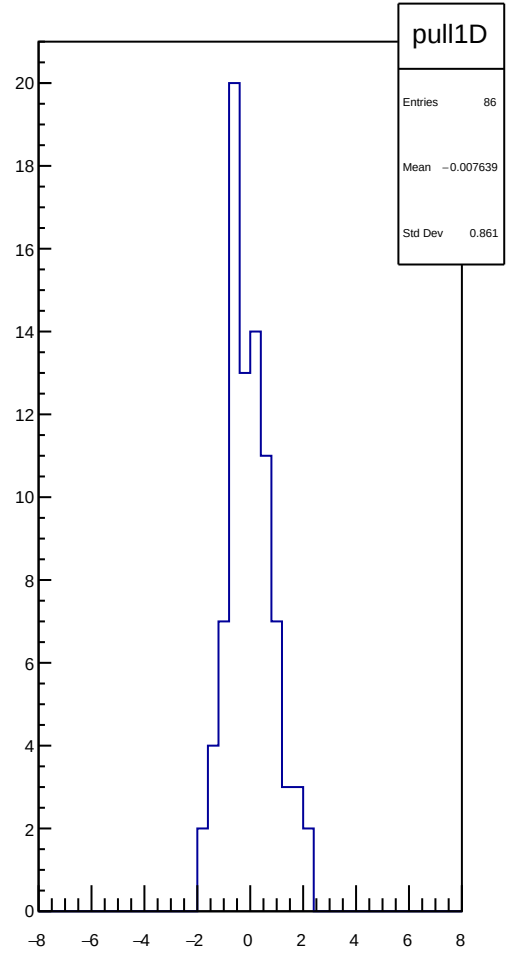

diff_bpm0l07Y_rms vs run
χ² / ndf 277.6 / 85
p0 935.8 ± 0.7355
980
970
960
950
940
930
920
910
900
890

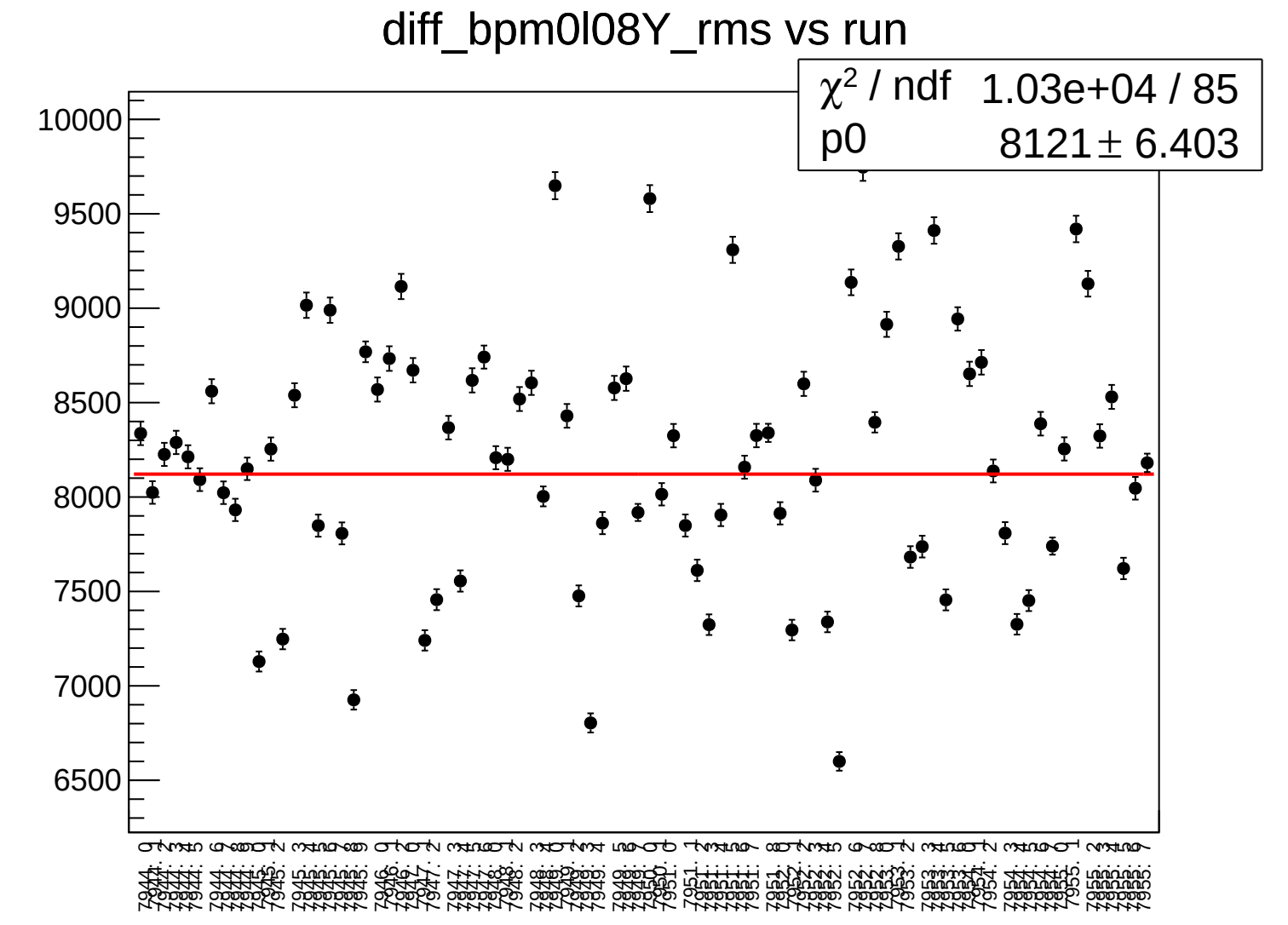

diff_bpm0l08X_mean vs run
χ² / ndf 64.45 / 85
p0 −19.63 ± 11.83
pull
Entries 86
Mean 19.4
Std Dev 0

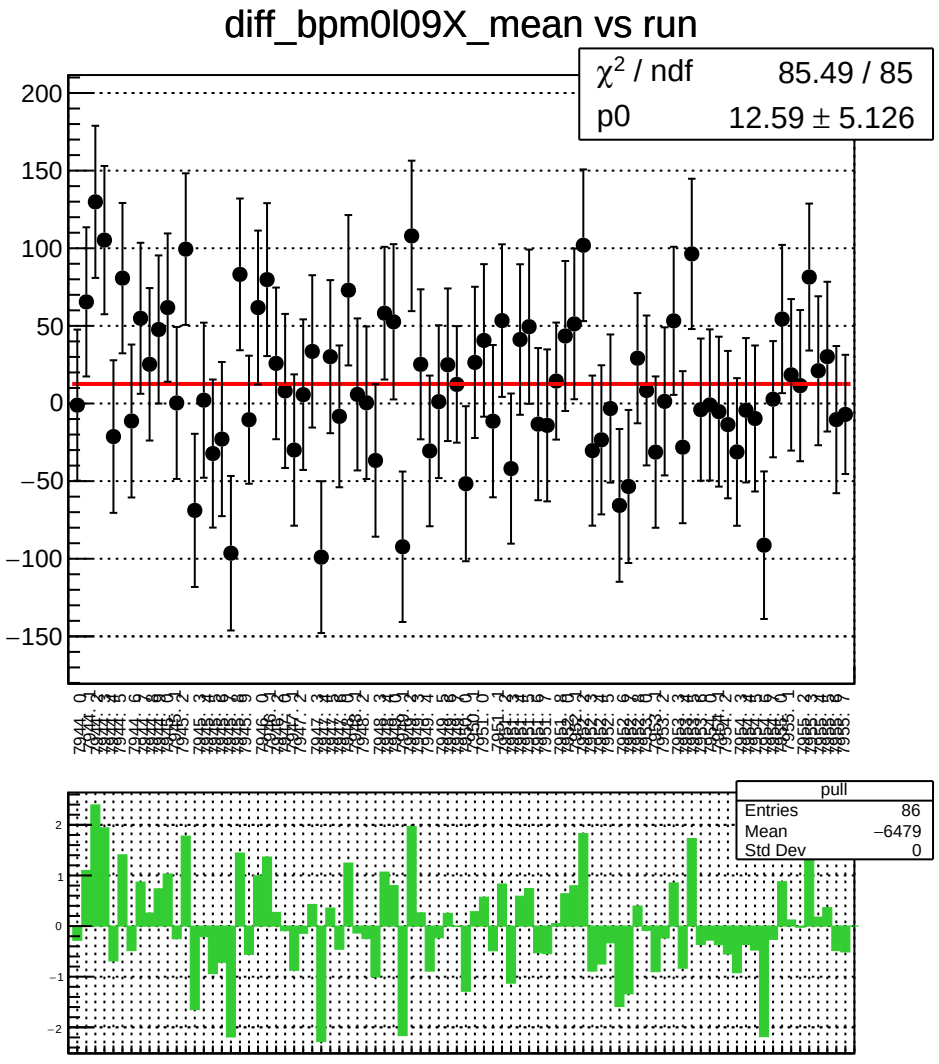

pull1D
Entries 86
Mean 0.01075
Std Dev 0.8656

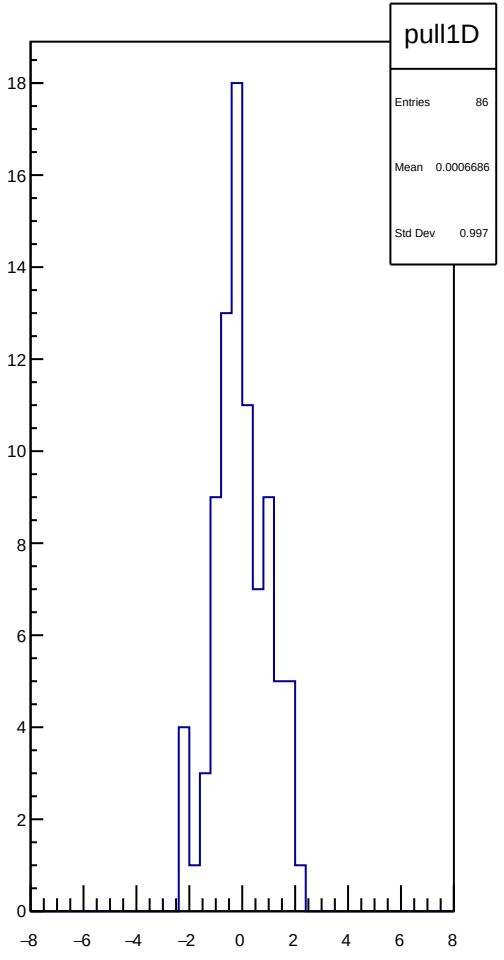

diff_bpm0l08X_rms vs run
χ² / ndf 1.19e+04 / 85
p0 1.061e+04 ± 8.366
13000
12000
11000
10000
9000
8000

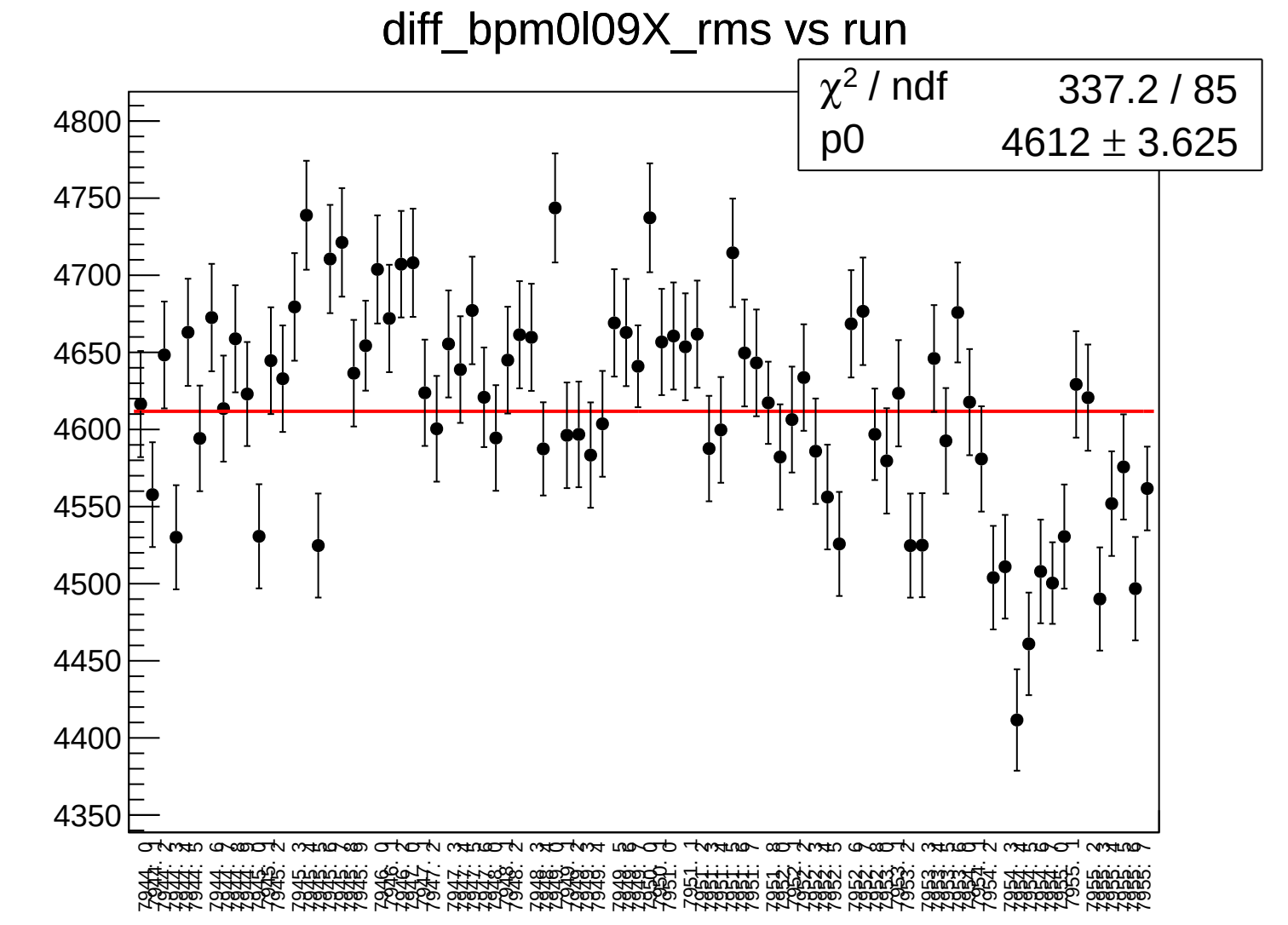

diff_bpm0l08Y_mean vs run
χ² / ndf 63.76 / 85
p0 17.69 ± 9.055
300
200
100
0
−100
−200
pull
Entries 86
Mean 12.45
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

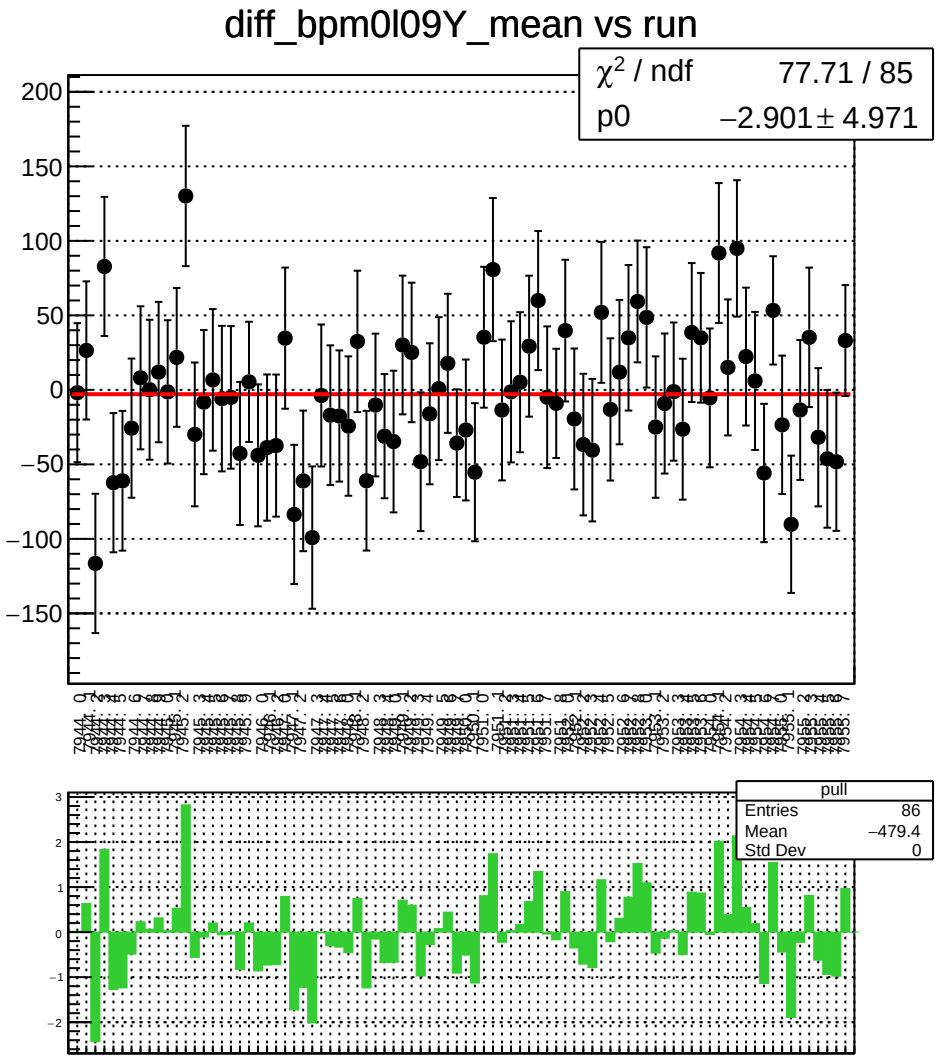

pull1D
Entries 86
Mean −0.007639
Std Dev 0.861
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

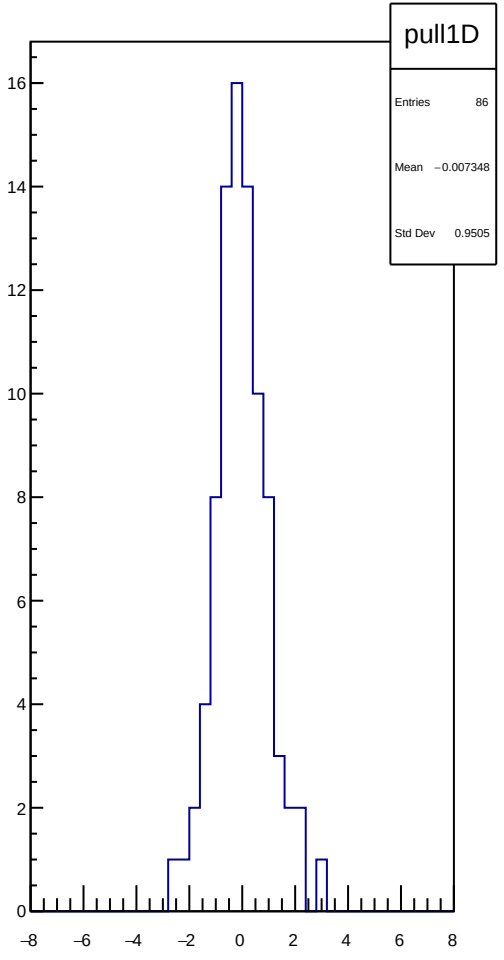

diff_bpm0l08Y_rms vs run
χ² / ndf 1.03e+04 / 85
p0 8121 ± 6.403
10000
9500
9000
8500
8000
7500
7000
6500

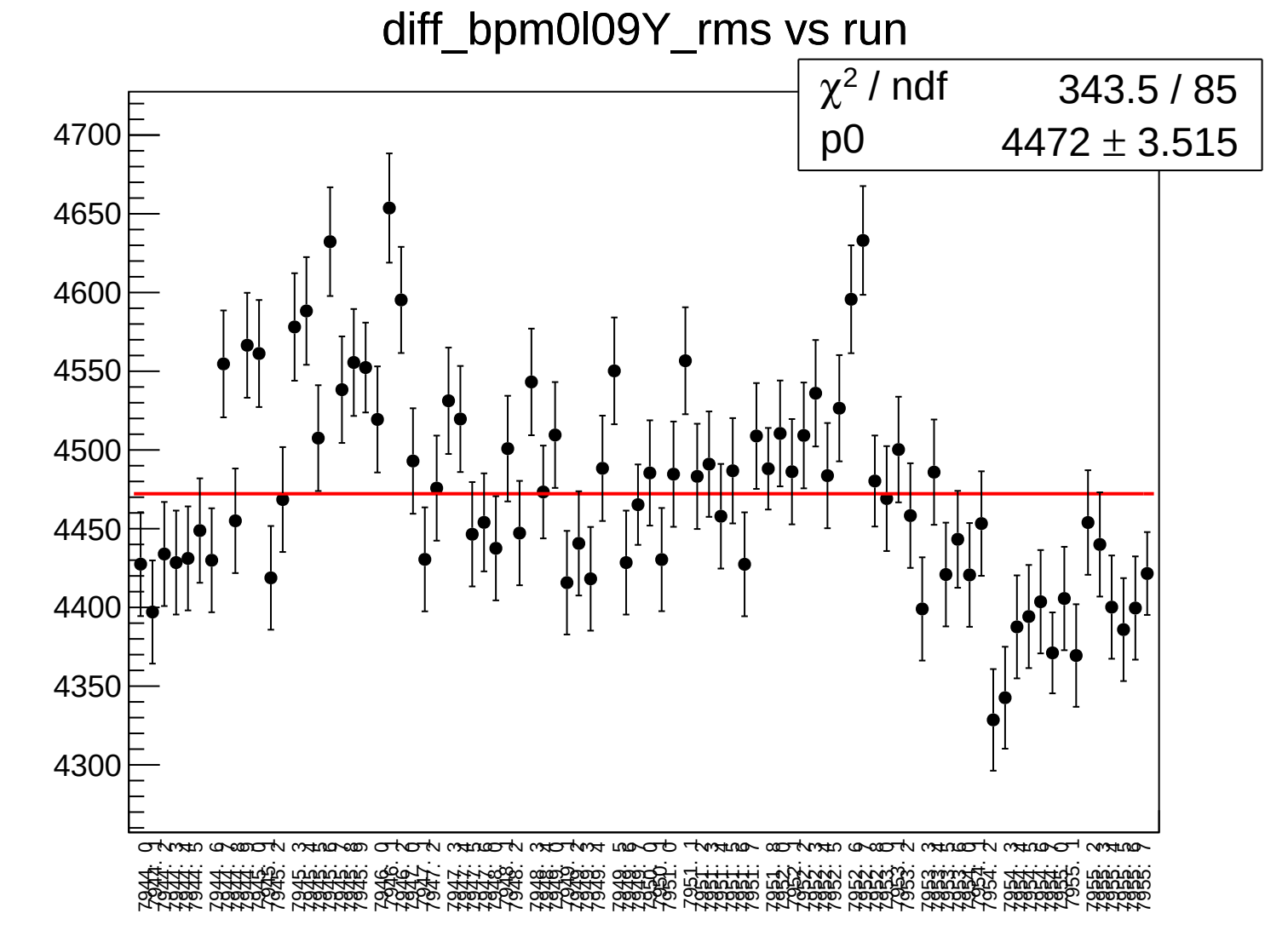

diff_bpm0l09X_mean vs run
χ^2 / ndf 85.49 / 85
p0 12.59 ± 5.126
pull
Entries 86
Mean −6479
Std Dev 0

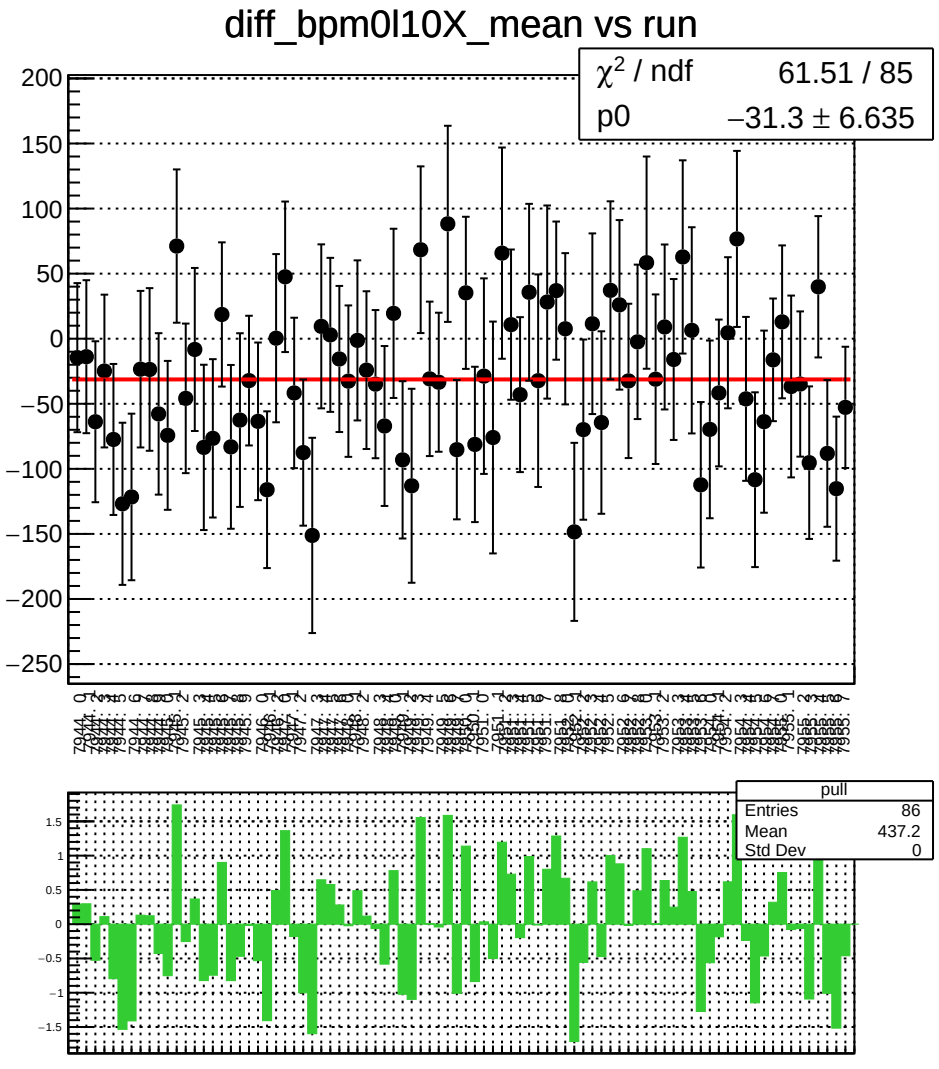

pull1D
Entries 86
Mean 0.0006686
Std Dev 0.997

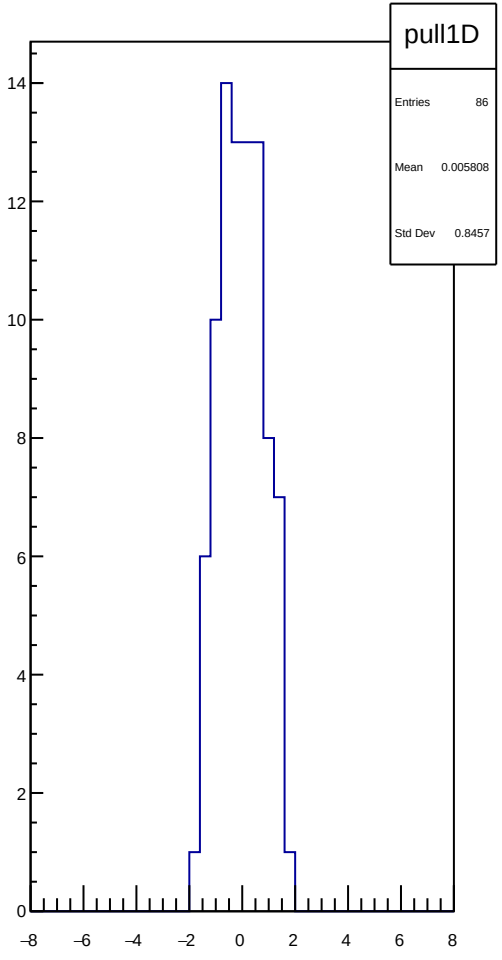

diff_bpm0l09X_rms vs run
χ² / ndf 337.2 / 85
p0 4612 ± 3.625
4800
4750
4700
4650
4600
4550
4500
4450
4400
4350

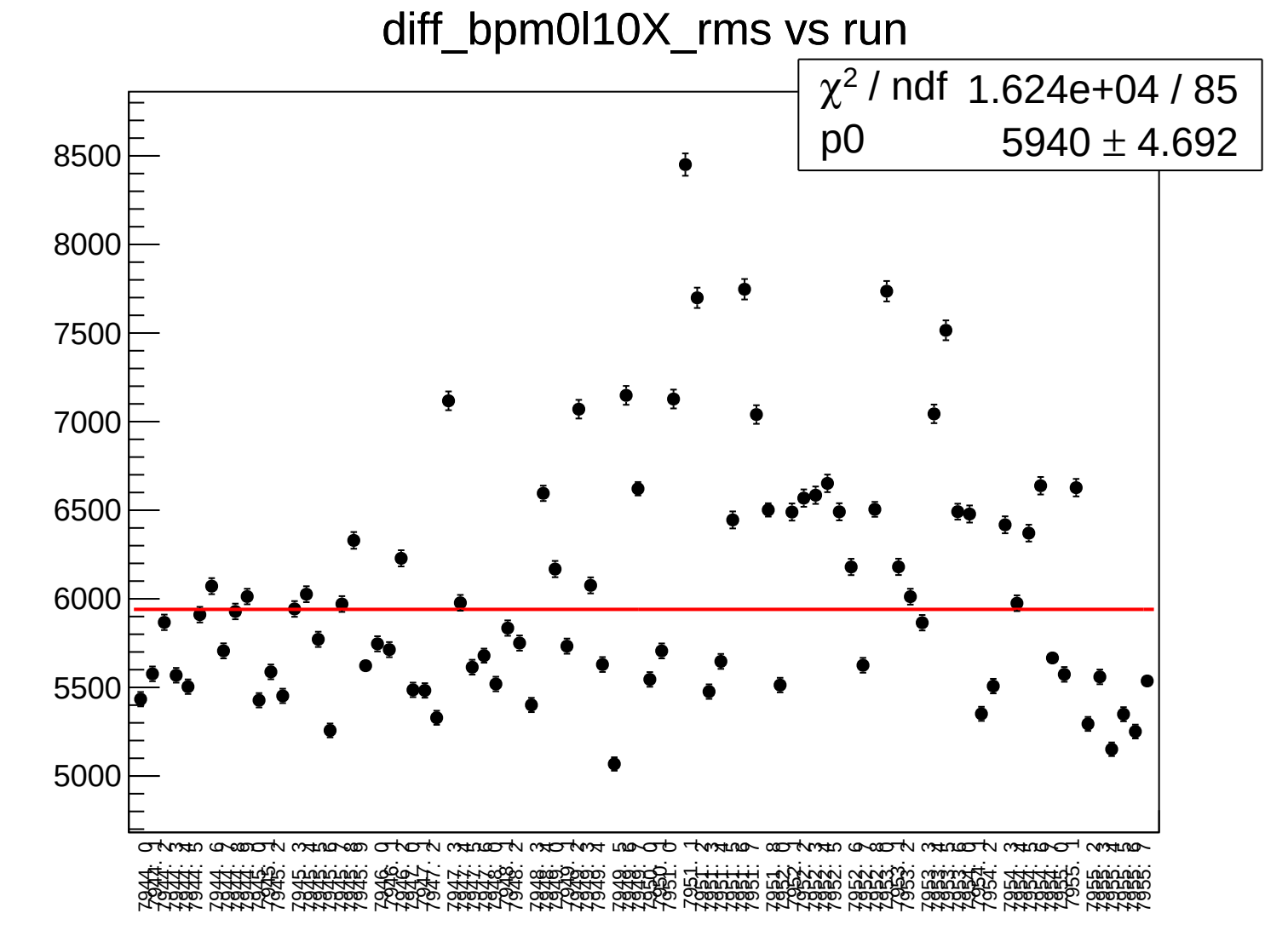

diff_bpm0l09Y_mean vs run
χ² / ndf 77.71 / 85
p0 −2.901 ± 4.971
pull
Entries 86
Mean −479.4
Std Dev 0

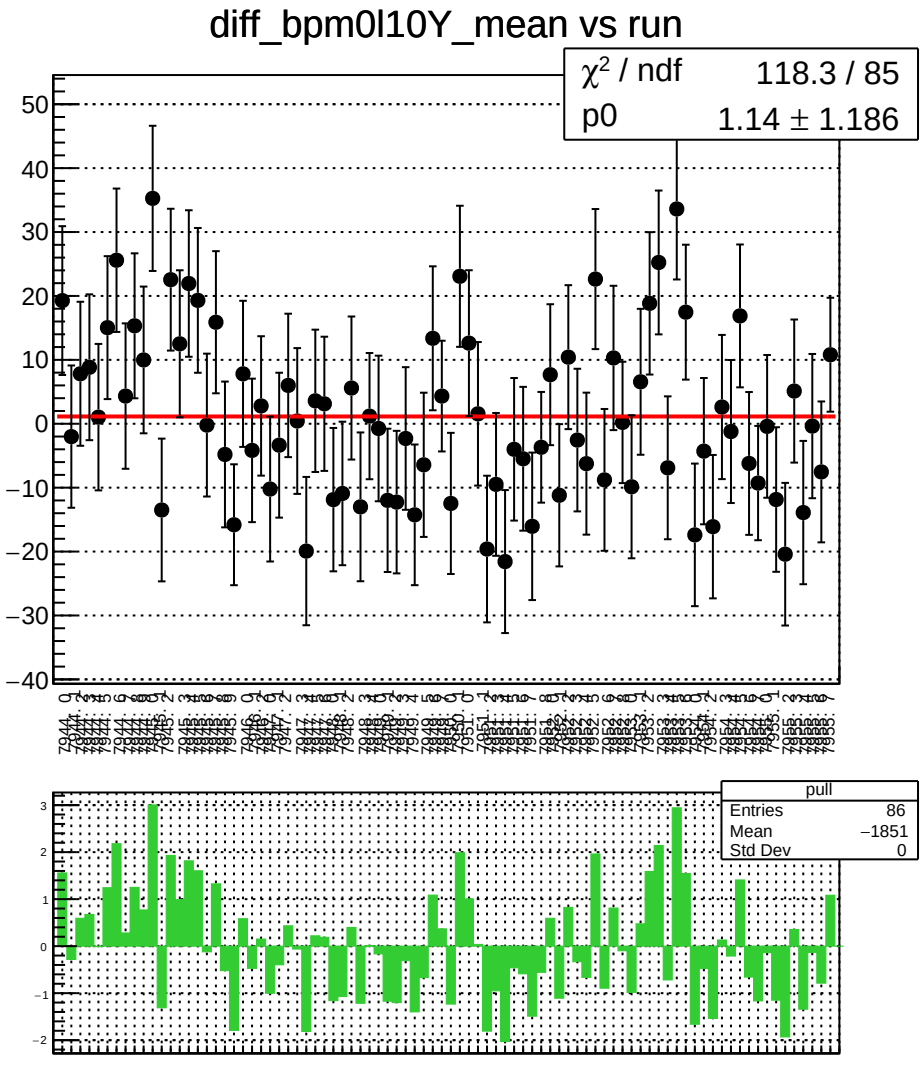

pull1D
Entries 86
Mean −0.007348
Std Dev 0.9505

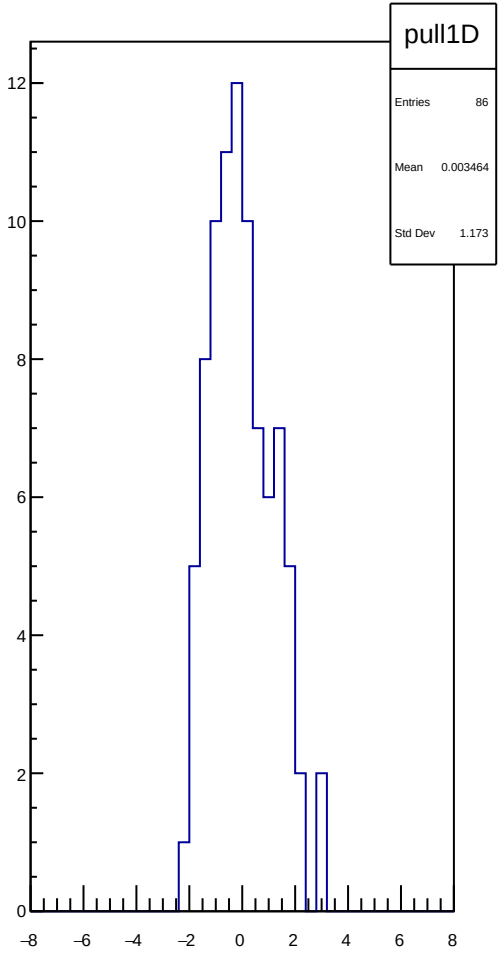

diff_bpm0l09Y_rms vs run
χ² / ndf 343.5 / 85
p0 4472 ± 3.515
4700
4650
4600
4550
4500
4450
4400
4350
4300

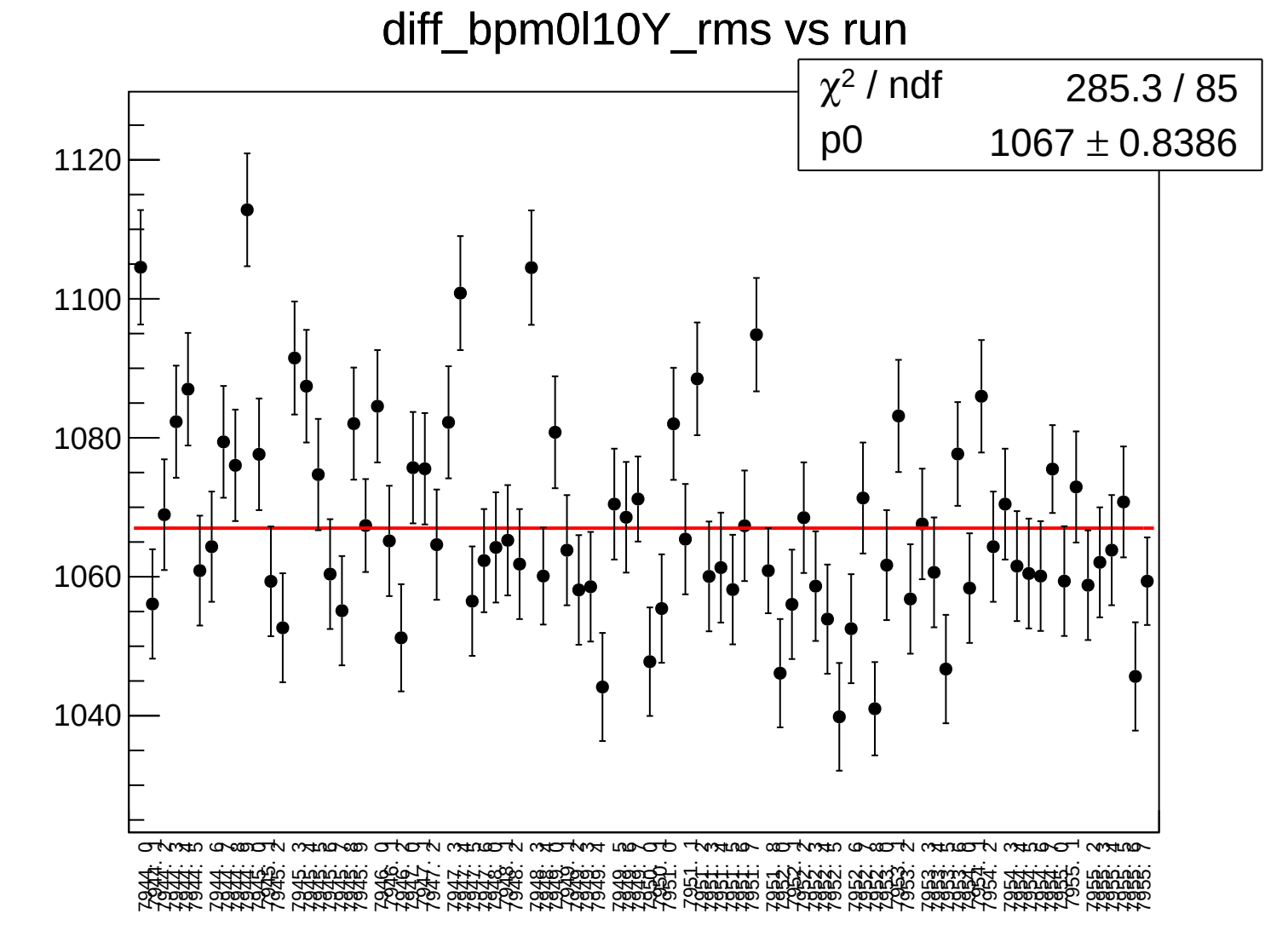

diff_bpm0l10X_mean vs run
χ^2 / ndf 61.51 / 85
p0 −31.3 ± 6.635
pull
Entries 86
Mean 437.2
Std Dev 0

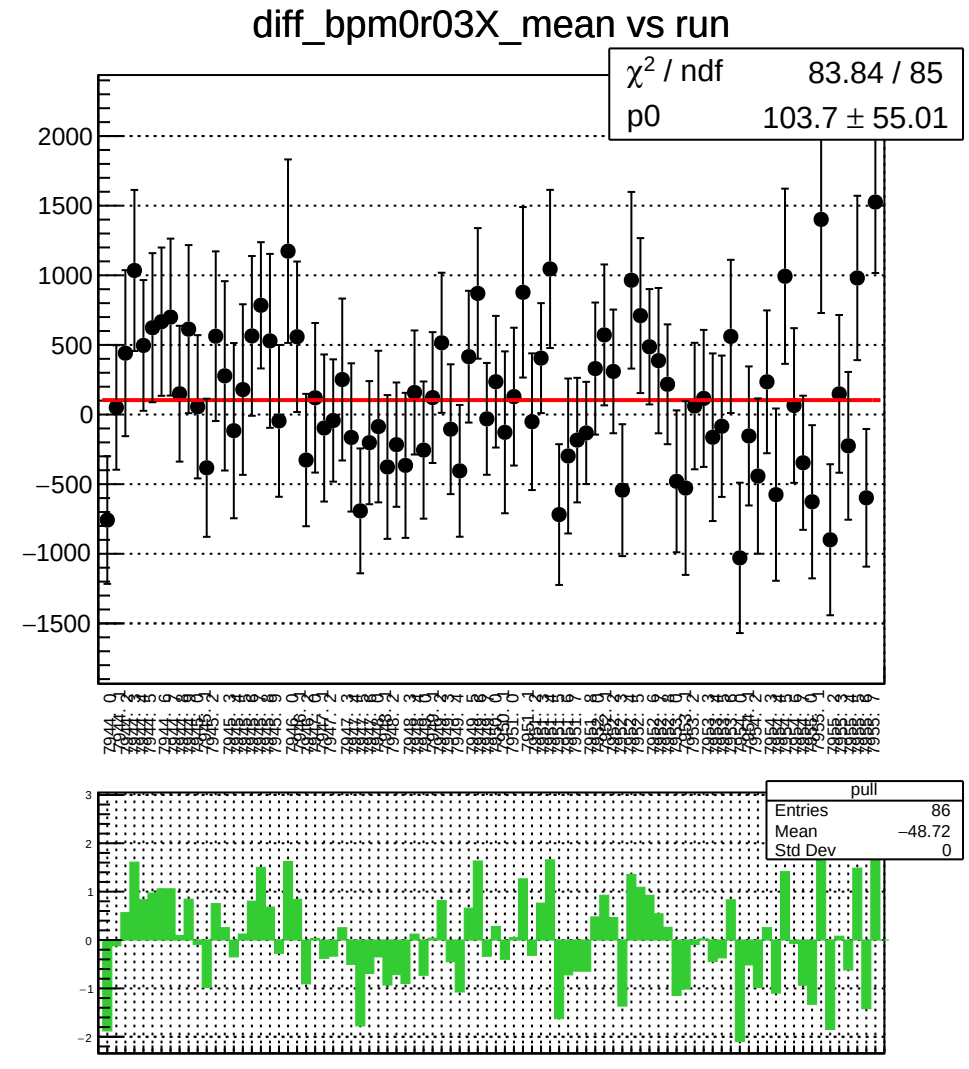

pull1D
Entries 86
Mean 0.005808
Std Dev 0.8457

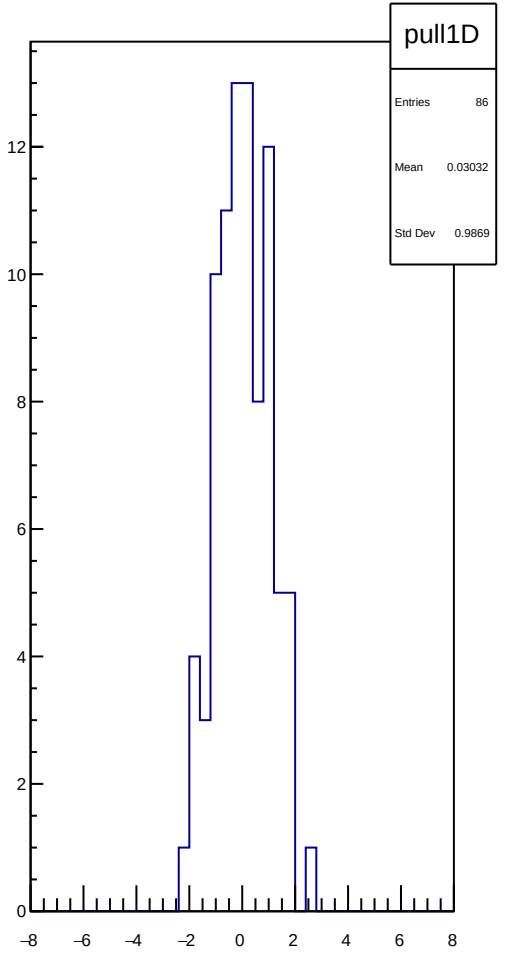

diff_bpm0l10X_rms vs run
χ^2 / ndf 1.624e+04 / 85
p0 5940 ± 4.692
8500
8000
7500
7000
6500
6000
5500
5000

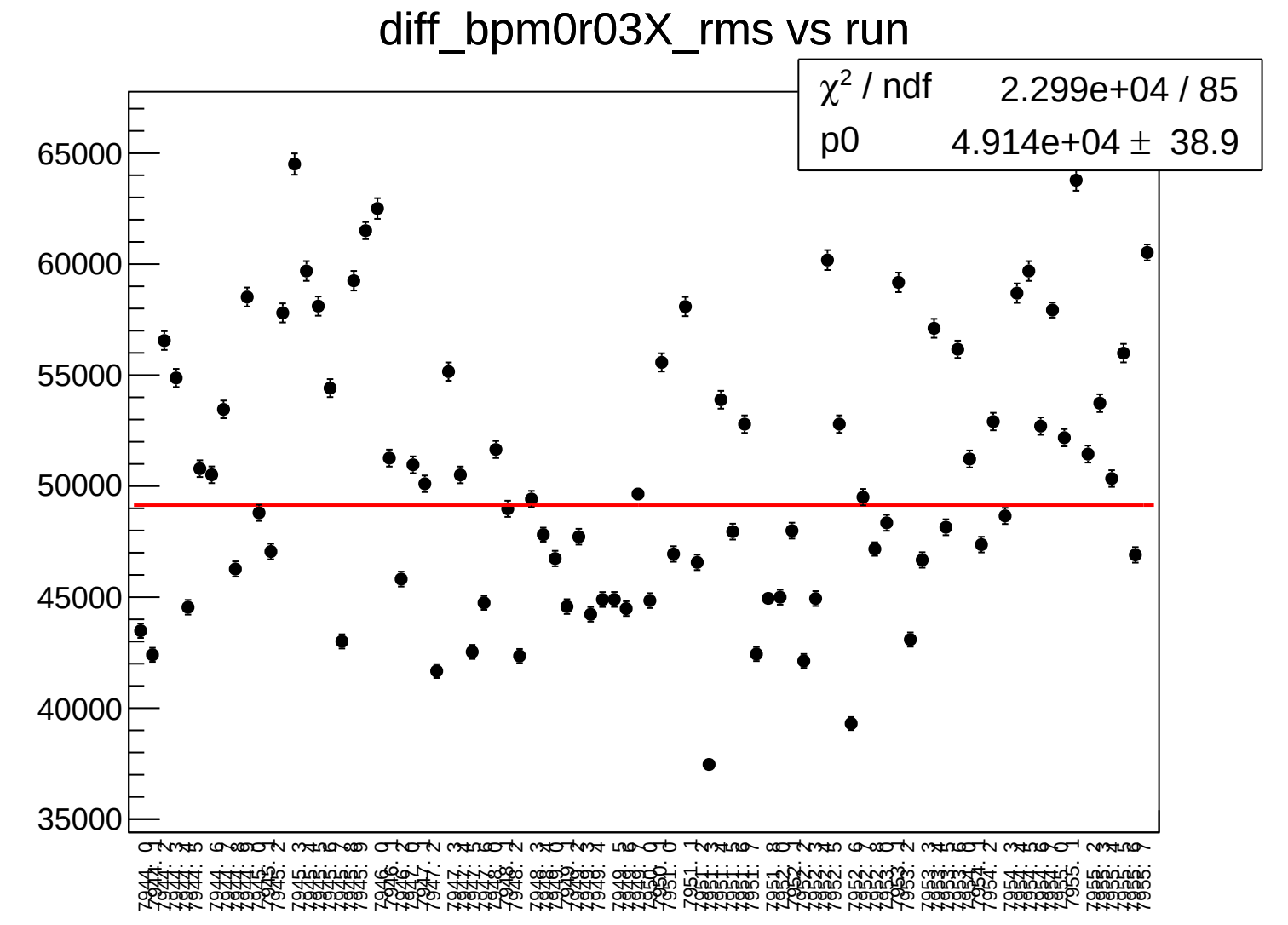

diff_bpm0l10Y_mean vs run
χ² / ndf 118.3 / 85
p0 1.14 ± 1.186
pull
Entries 86
Mean −1851
Std Dev 0

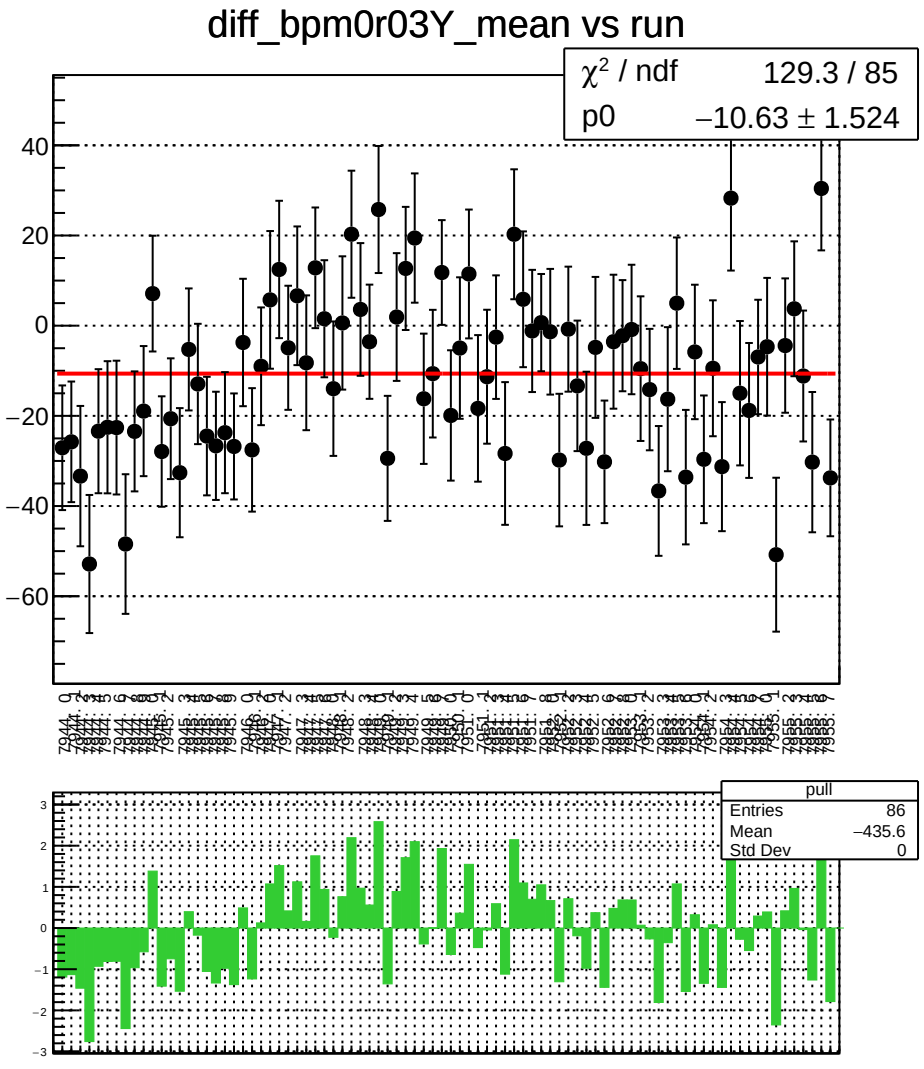

pull1D
Entries 86
Mean 0.003464
Std Dev 1.173

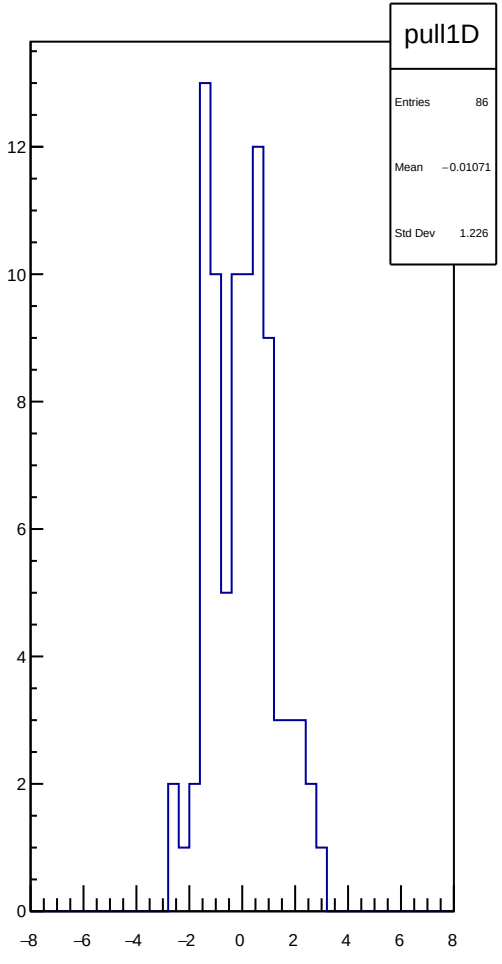

diff_bpm0l10Y_rms vs run
χ² / ndf 285.3 / 85
p0 1067 ± 0.8386
1120
1100
1080
1060
1040

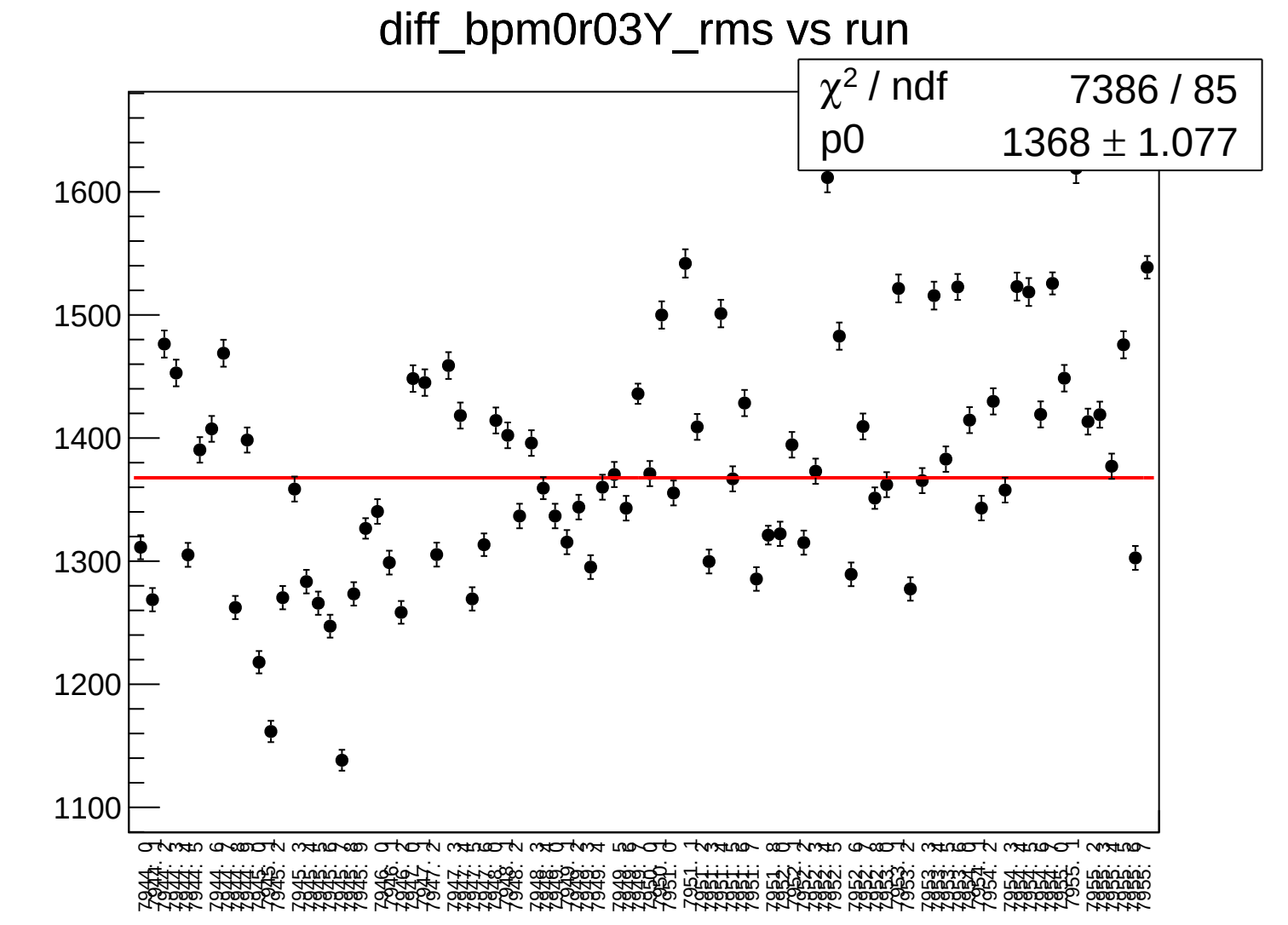

diff_bpm0r03X_mean vs run
χ² / ndf 83.84 / 85
p0 103.7 ± 55.01
pull
Entries 86
Mean −48.72
Std Dev 0

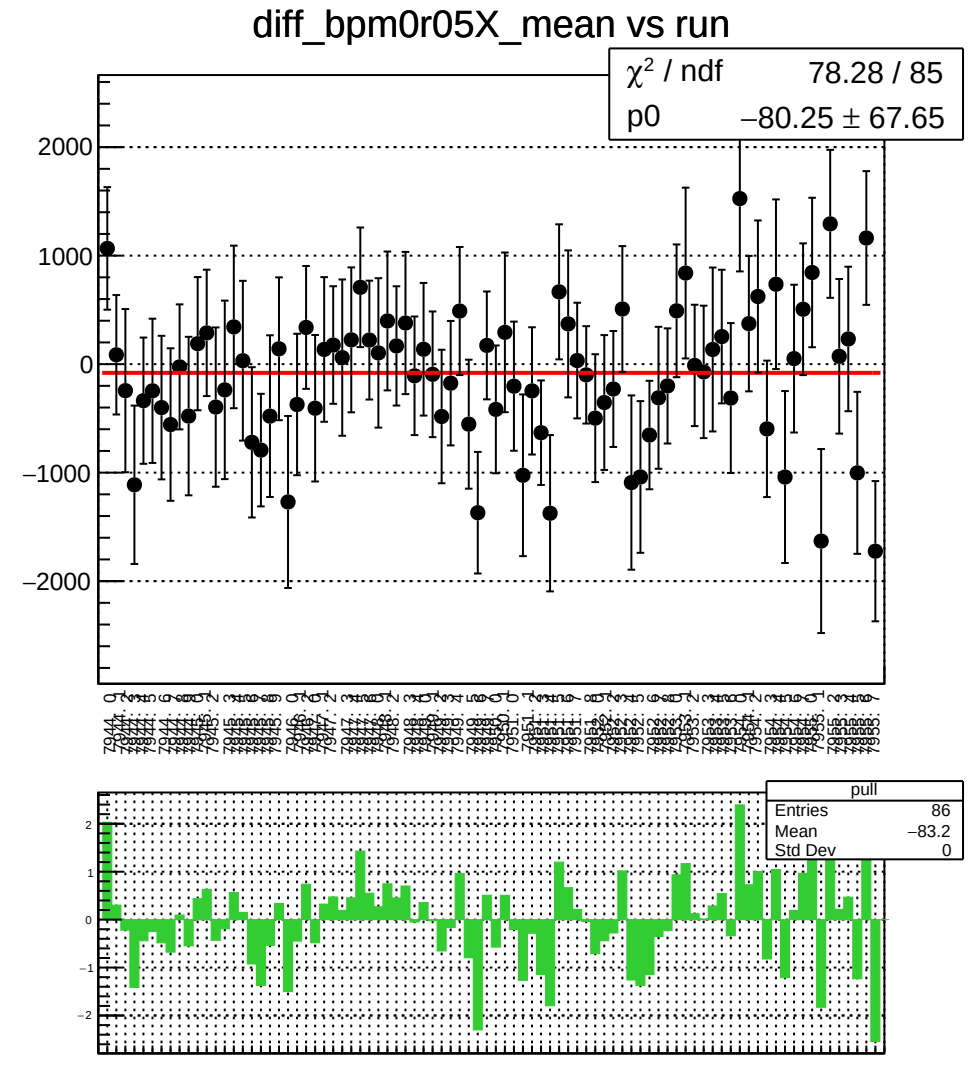

pull1D
Entries 86
Mean 0.03032
Std Dev 0.9869

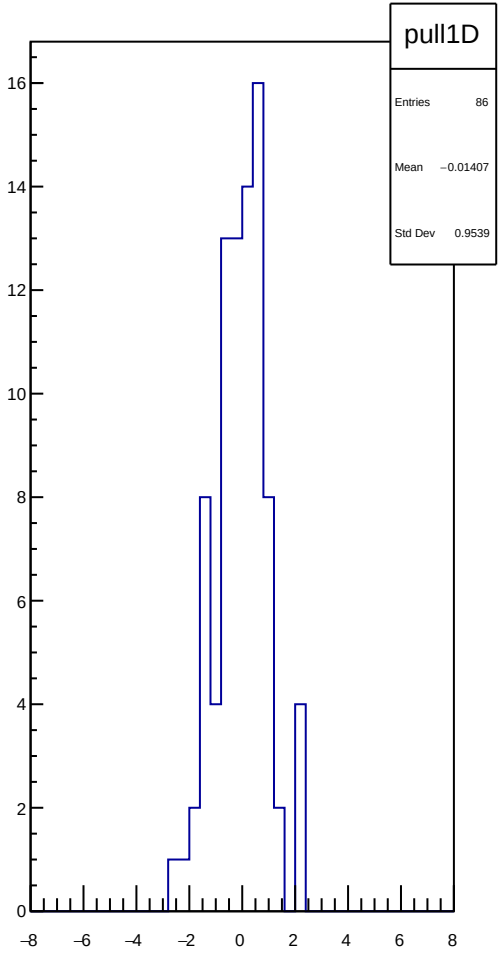

diff_bpm0r03X_rms vs run
χ^2 / ndf 2.299e+04 / 85
p0 4.914e+04 ± 38.9
65000
60000
55000
50000
45000
40000
35000

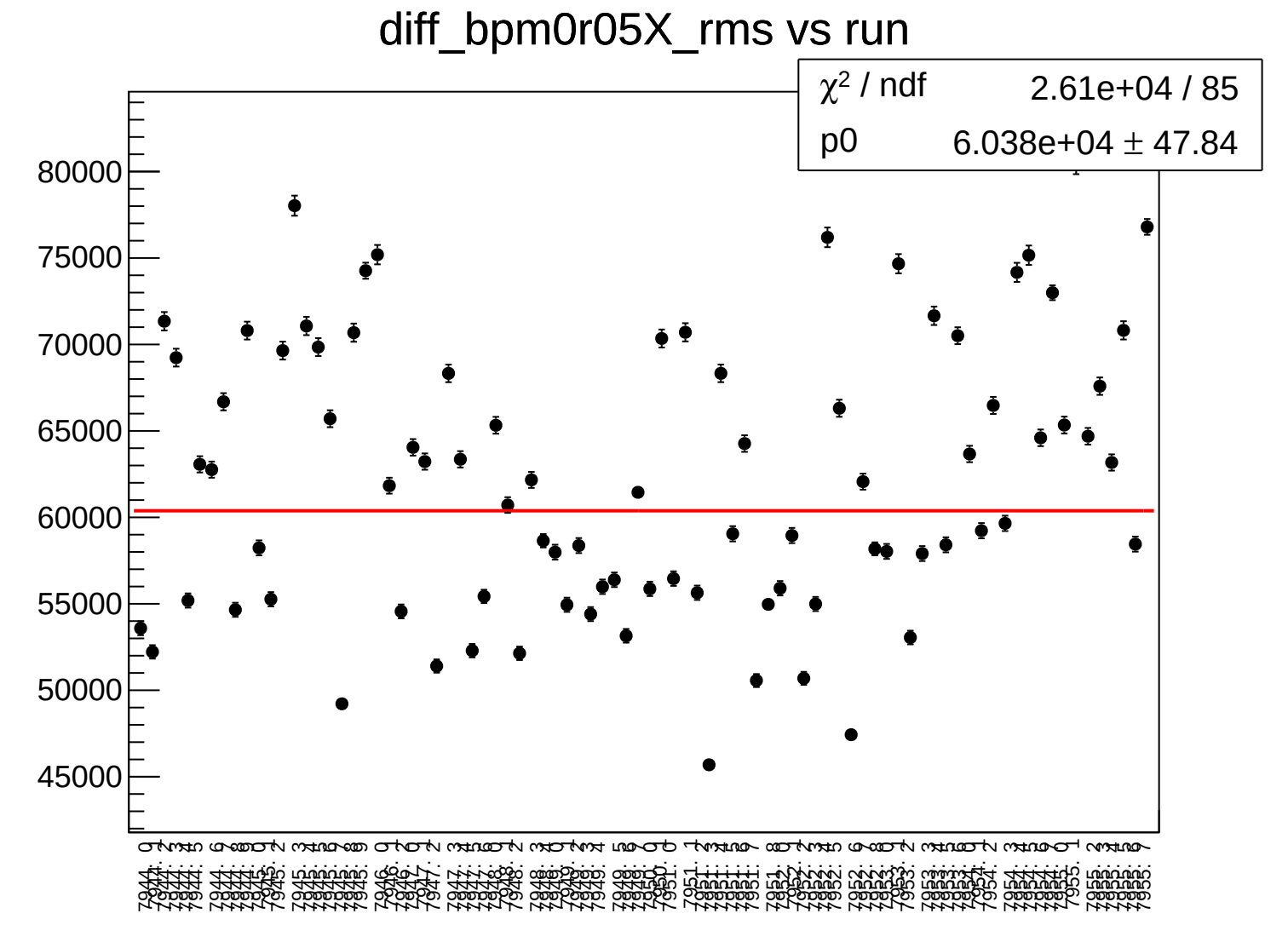

diff_bpm0r03Y_mean vs run
χ² / ndf 129.3 / 85
p0 −10.63 ± 1.524
pull
Entries 86
Mean −435.6
Std Dev 0

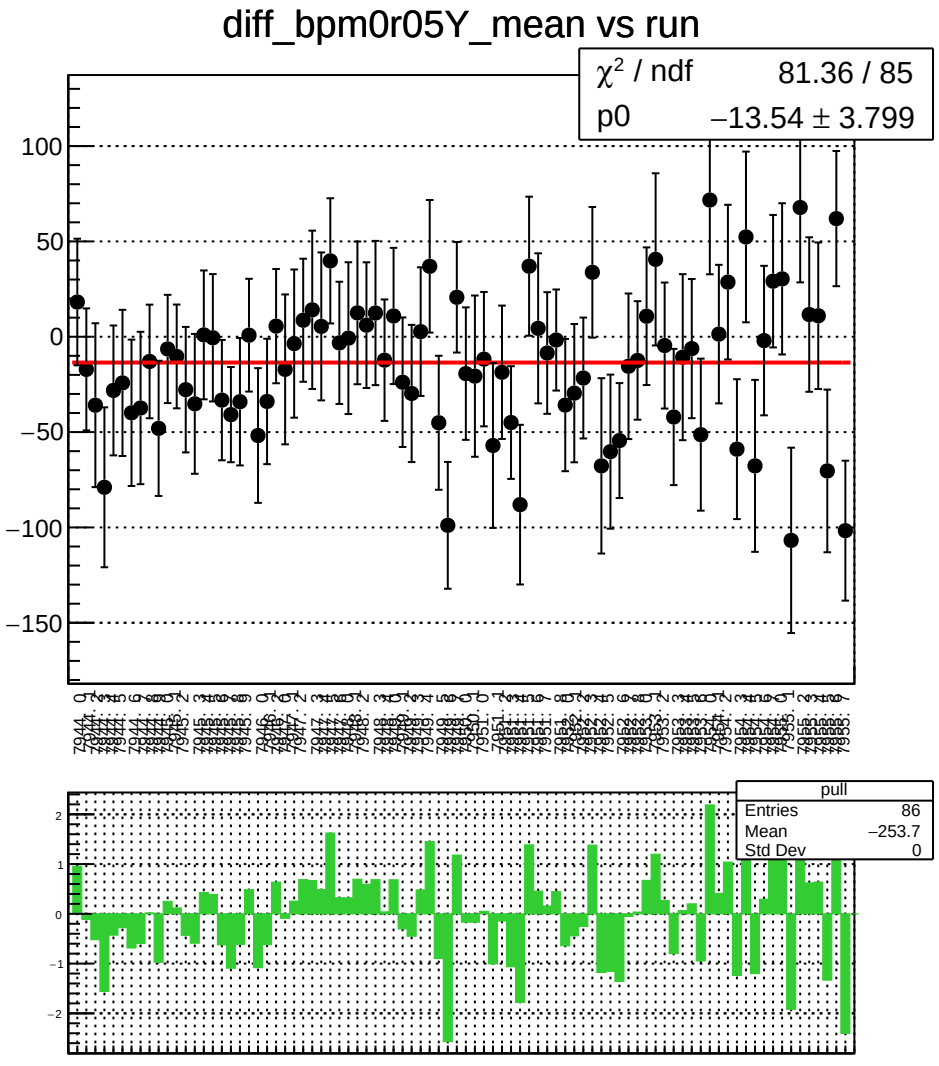

pull1D
Entries 86
Mean −0.01071
Std Dev 1.226

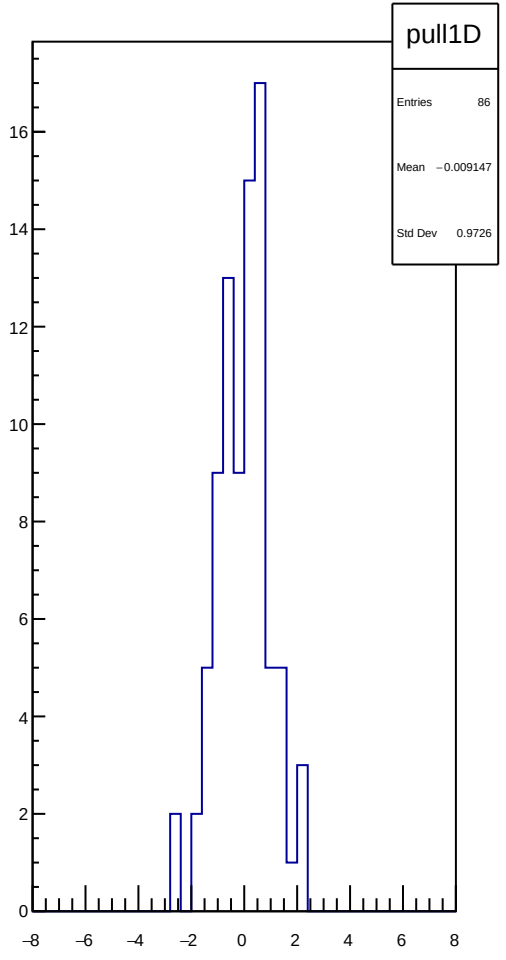

diff_bpm0r03Y_rms vs run
χ^2 / ndf 7386 / 85
p0 1368 ± 1.077
1600
1500
1400
1300
1200
1100

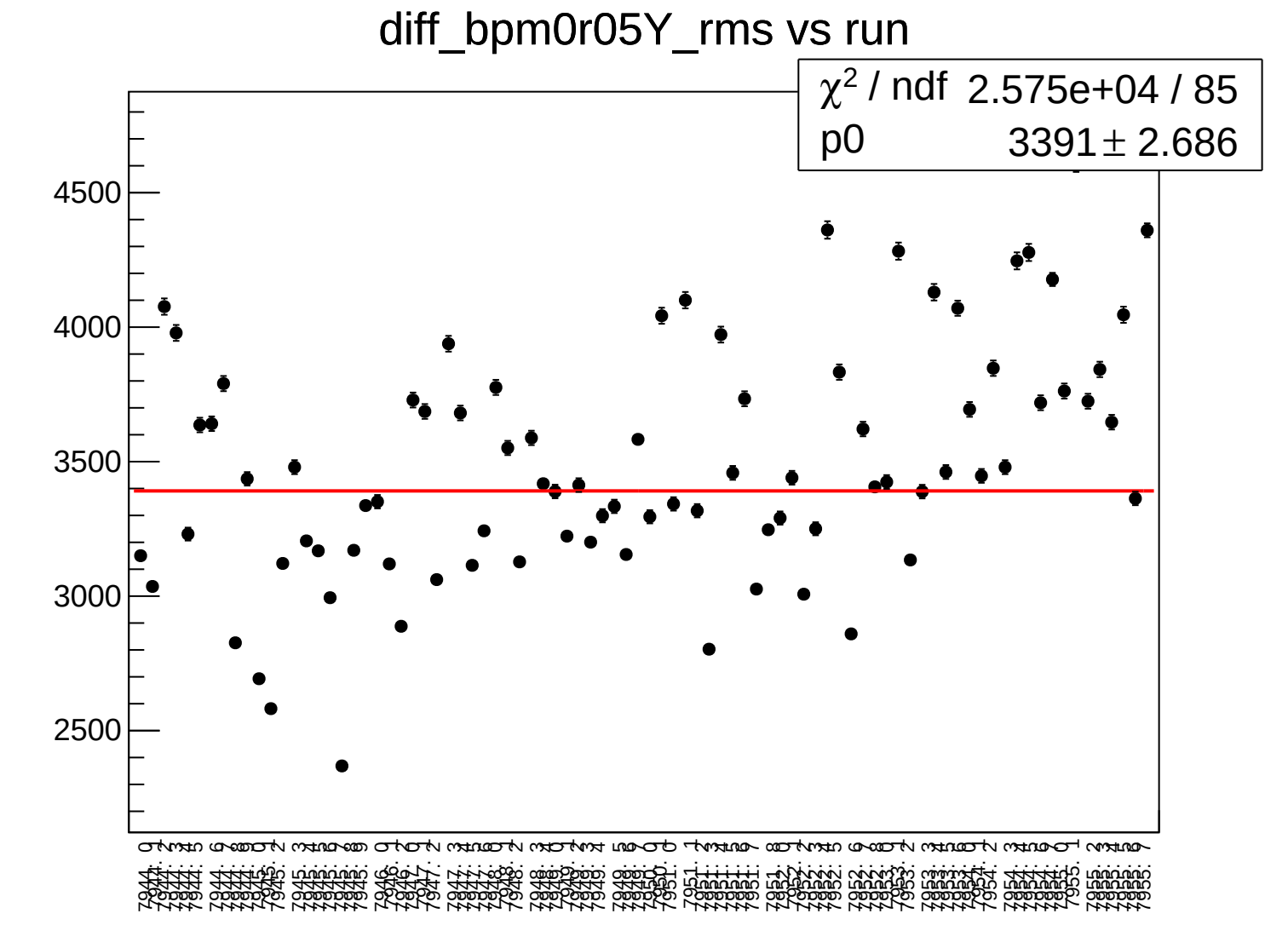

diff_bpm0r05X_mean vs run
χ² / ndf 78.28 / 85
p0 −80.25 ± 67.65
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −83.2
Std Dev 0
2
1
0
−1
−2

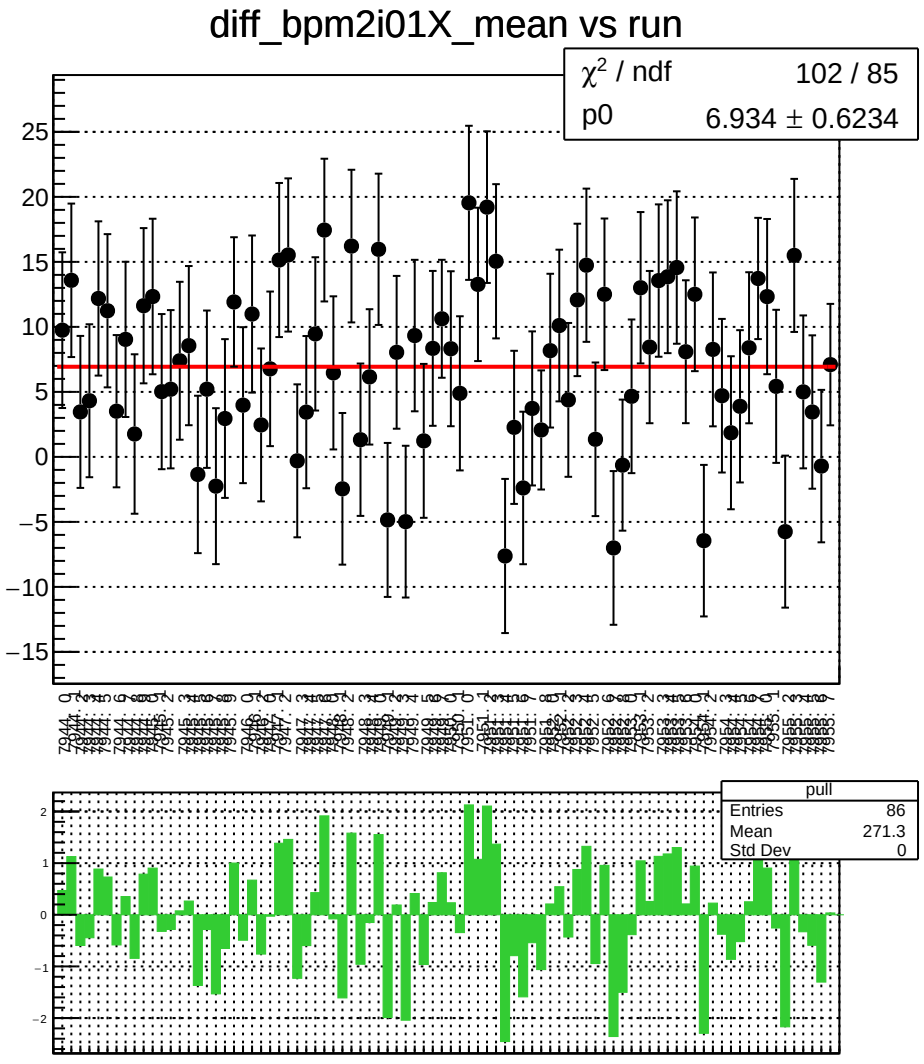

pull1D
Entries 86
Mean −0.01407
Std Dev 0.9539
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

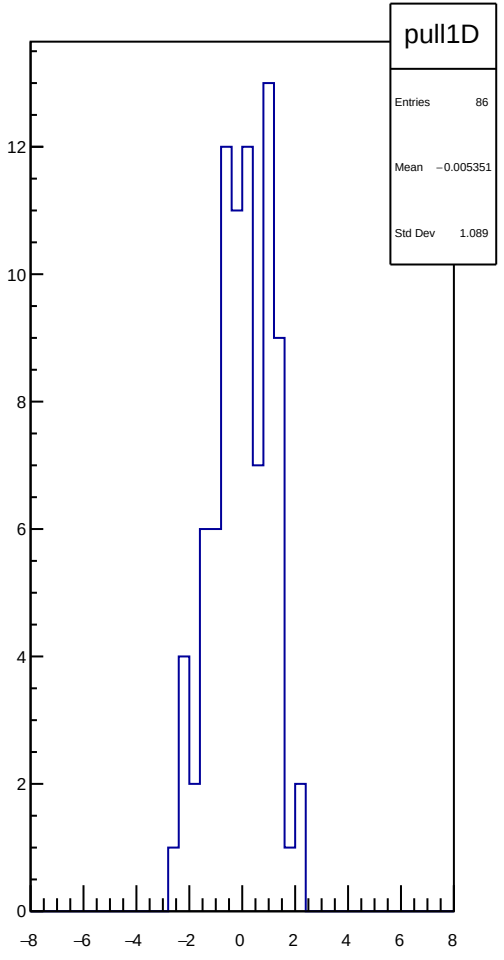

diff_bpm0r05X_rms vs run
χ² / ndf 2.61e+04 / 85
p0 6.038e+04 ± 47.84
80000
75000
70000
65000
60000
55000
50000
45000

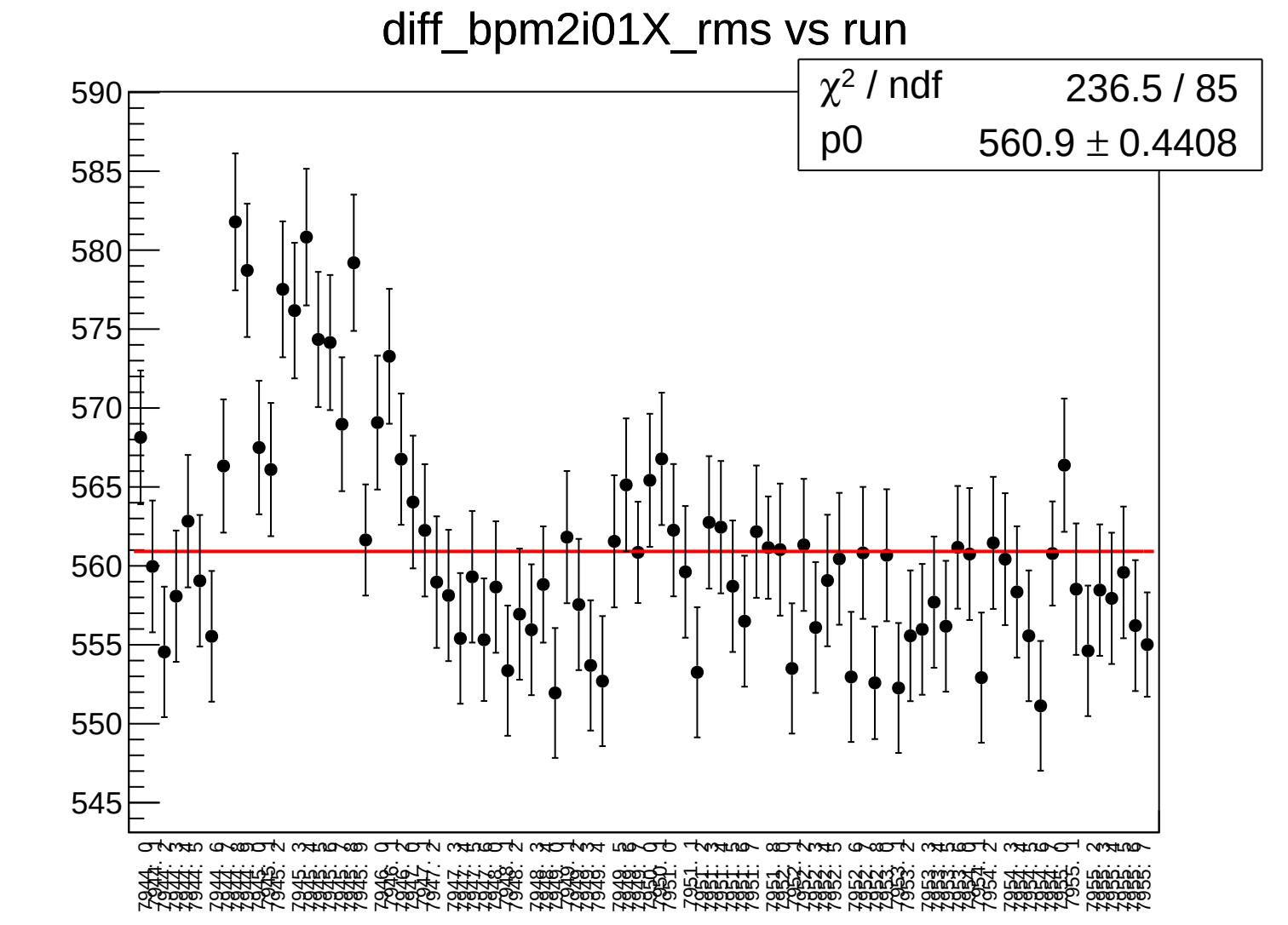

diff_bpm0r05Y_mean vs run
χ² / ndf 81.36 / 85
p0 −13.54 ± 3.799
pull
Entries 86
Mean −253.7
Std Dev 0

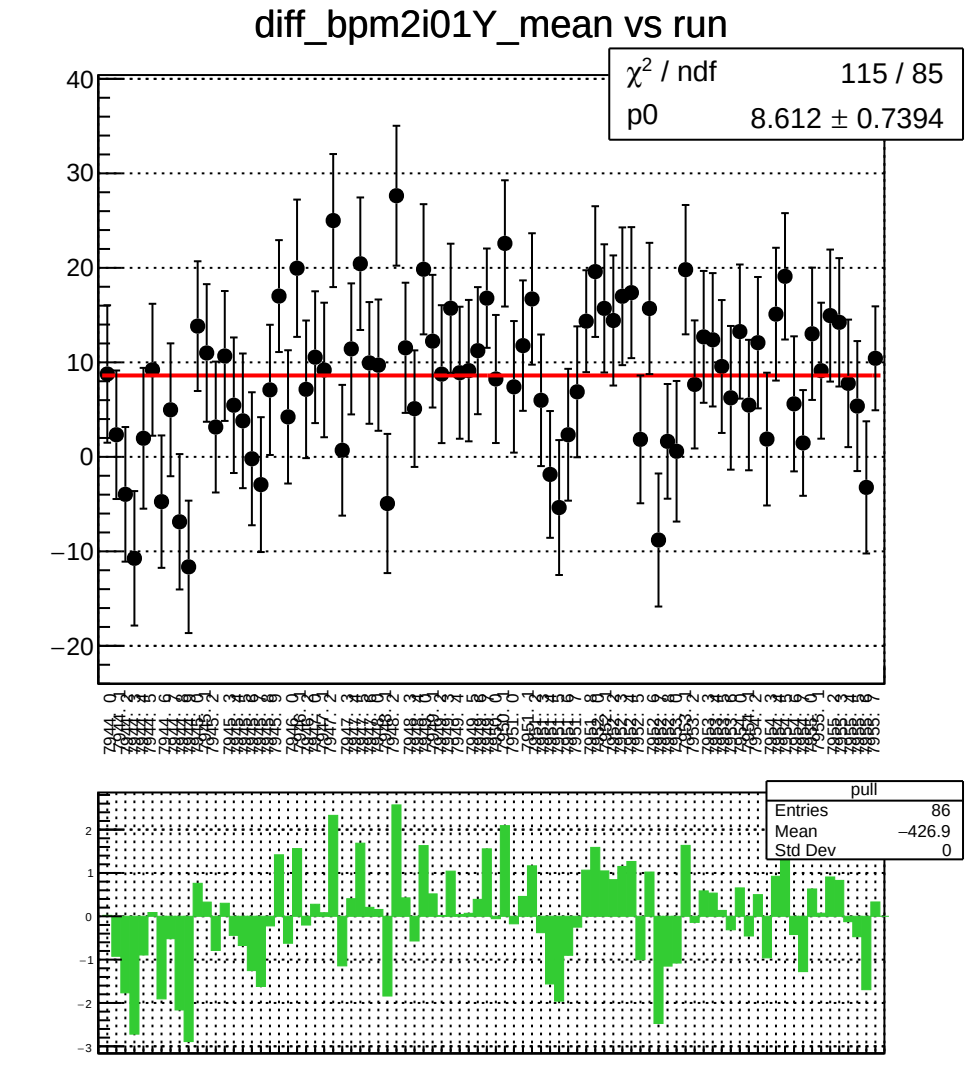

pull1D
Entries 86
Mean −0.009147
Std Dev 0.9726

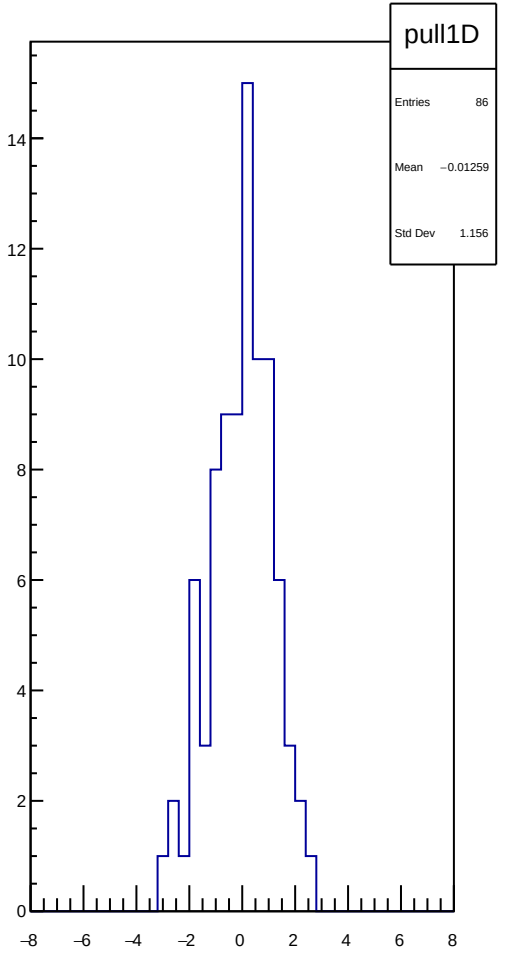

diff_bpm0r05Y_rms vs run
χ^2 / ndf 2.575e+04 / 85
p0 3391 ± 2.686
4500
4000
3500
3000
2500

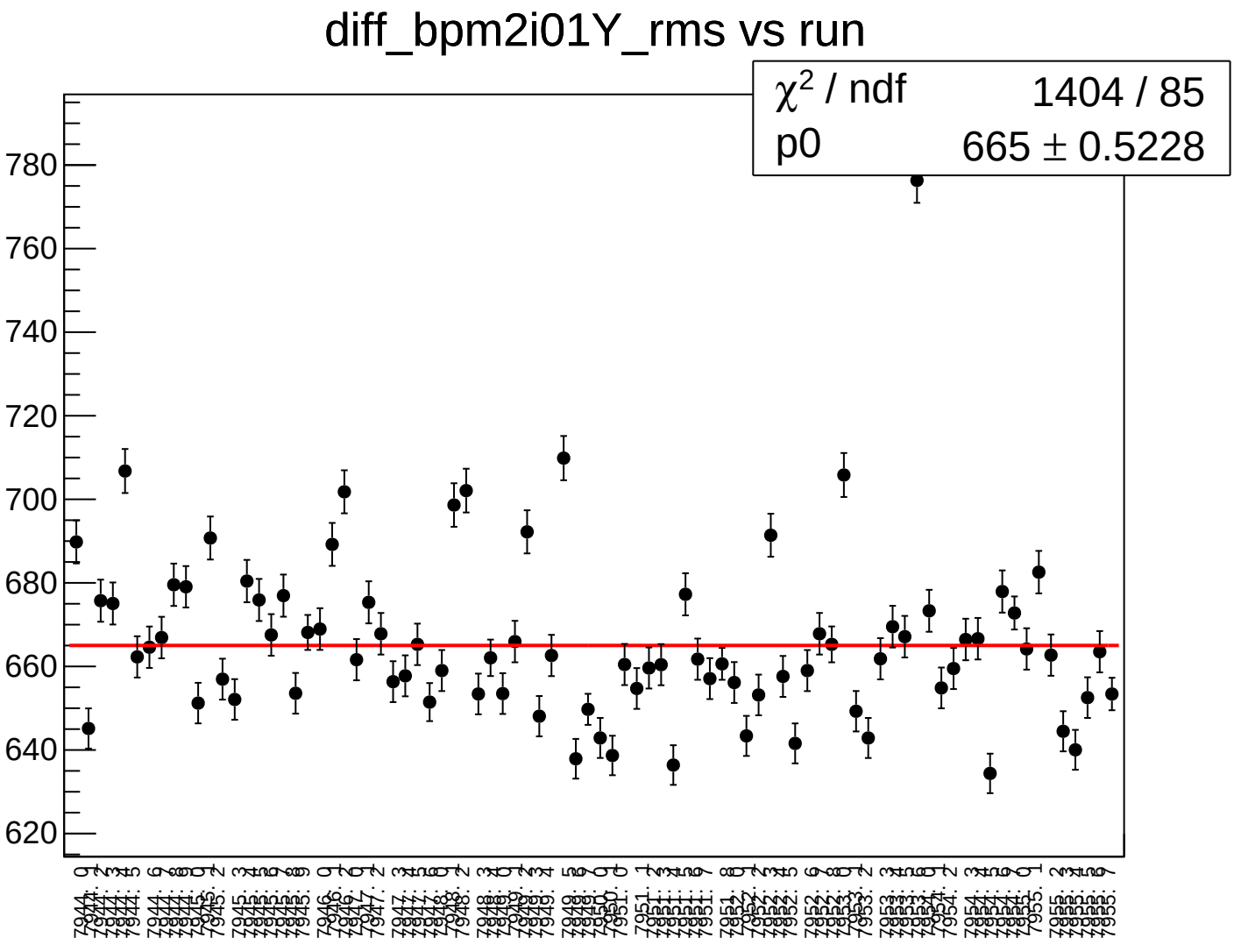

diff_bpm2i01X_mean vs run
χ² / ndf 102 / 85
p0 6.934 ± 0.6234
pull
Entries 86
Mean 271.3
Std Dev 0

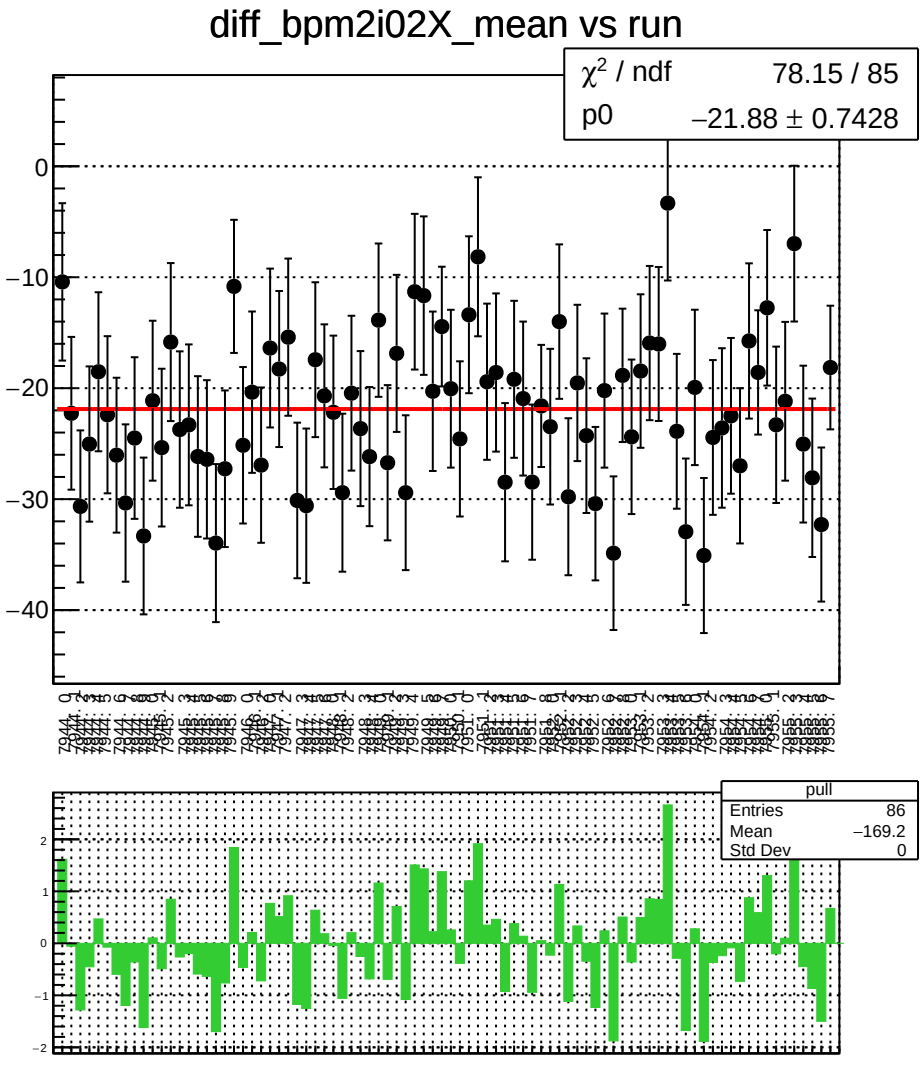

pull1D
Entries 86
Mean −0.005351
Std Dev 1.089

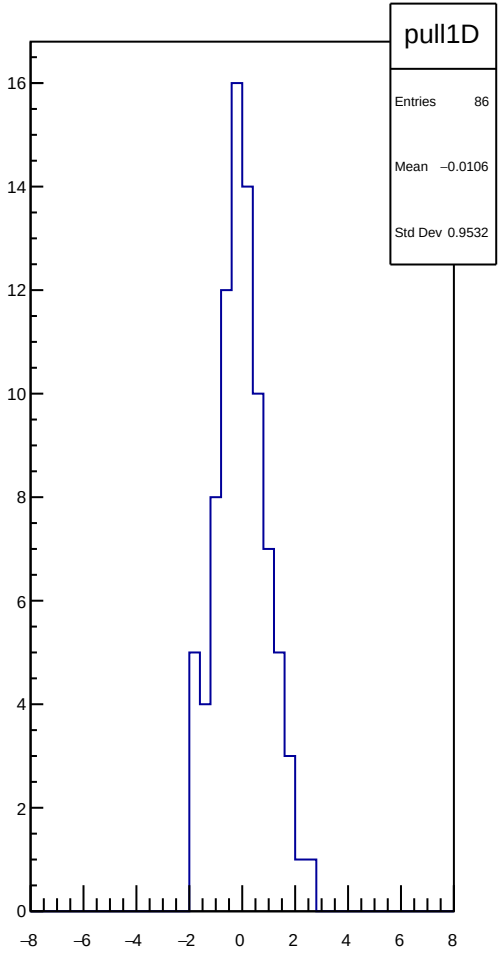

diff_bpm2i01X_rms vs run
χ² / ndf 236.5 / 85
p0 560.9 ± 0.4408
590
585
580
575
570
565
560
555
550
545

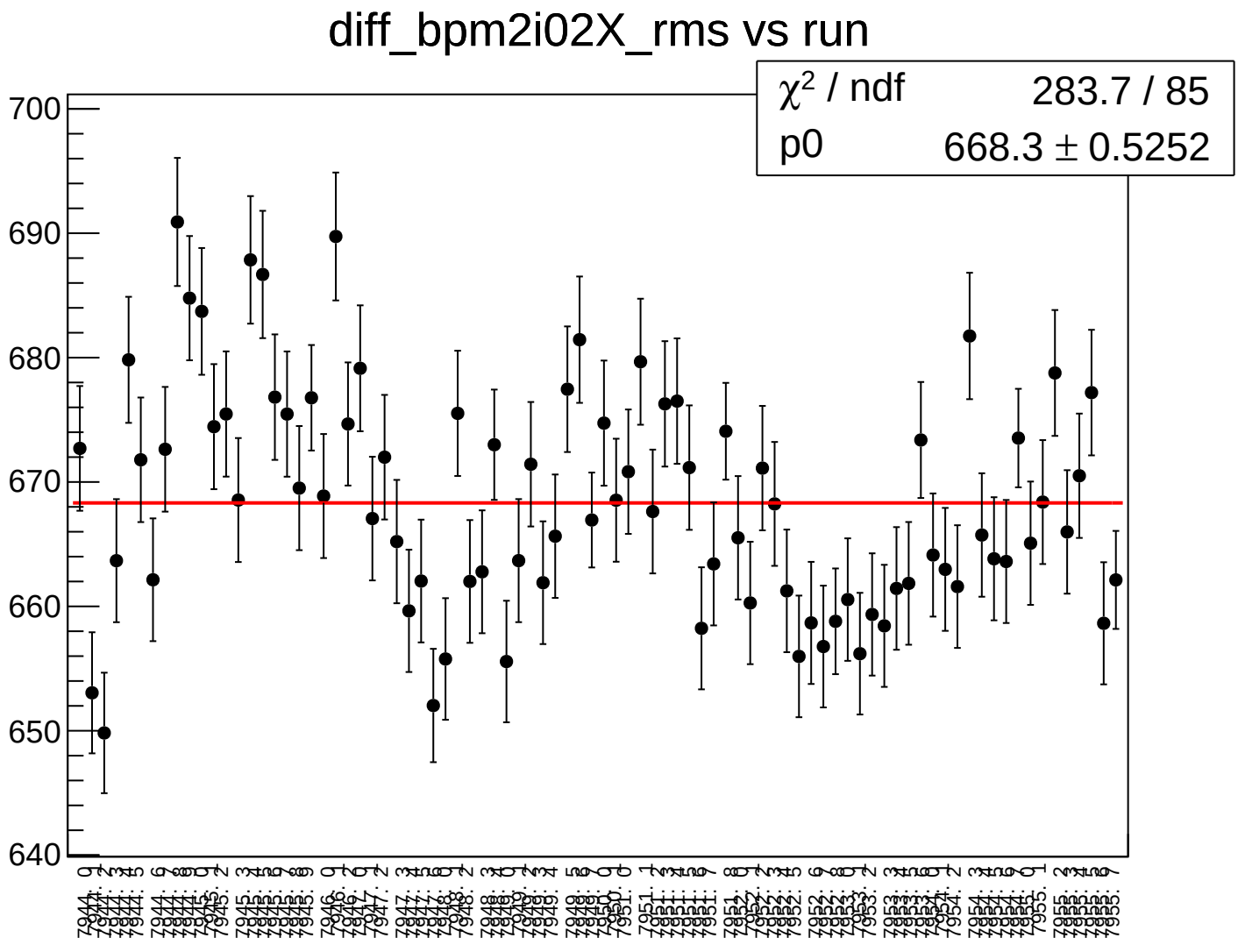

diff_bpm2i01Y_mean vs run
χ² / ndf 115 / 85
p0 8.612 ± 0.7394
pull
Entries 86
Mean −426.9
Std Dev 0

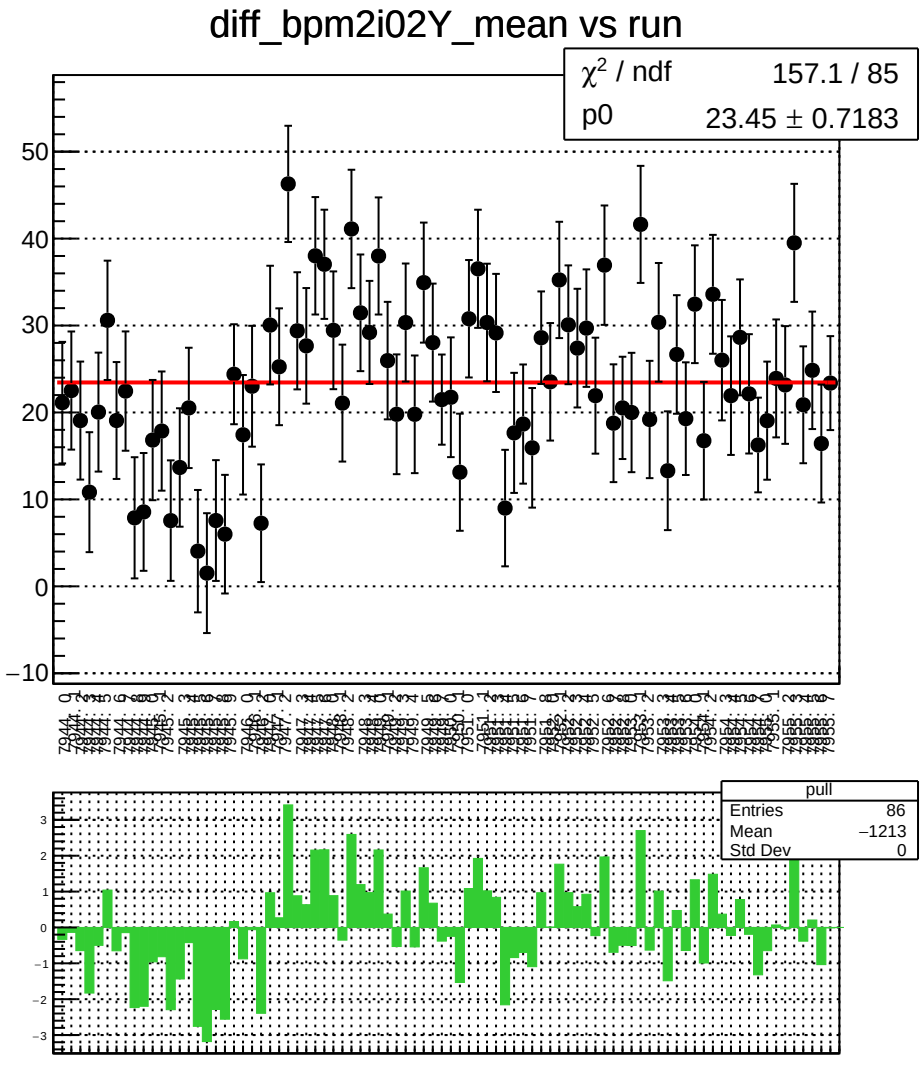

pull1D
Entries 86
Mean −0.01259
Std Dev 1.156

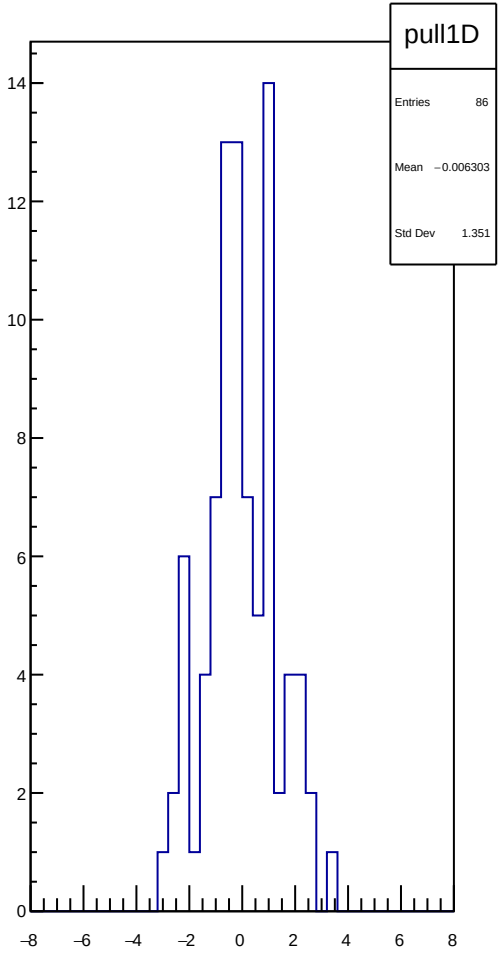

diff_bpm2i01Y_rms vs run
χ² / ndf 1404 / 85
p0 665 ± 0.5228
780
760
740
720
700
680
660
640
620

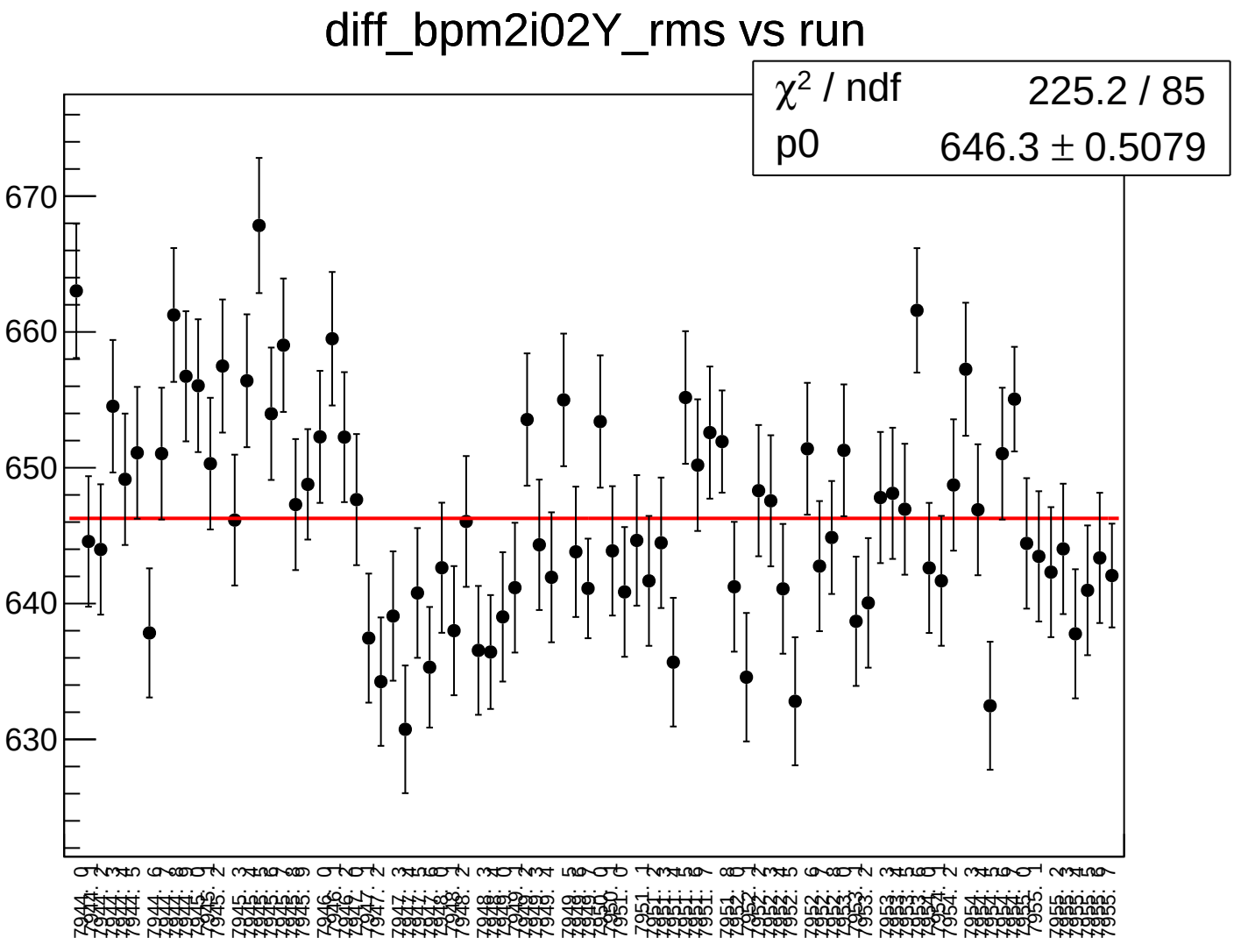

diff_bpm2i02X_mean vs run
χ² / ndf 78.15 / 85
p0 −21.88 ± 0.7428
pull
Entries 86
Mean −169.2
Std Dev 0

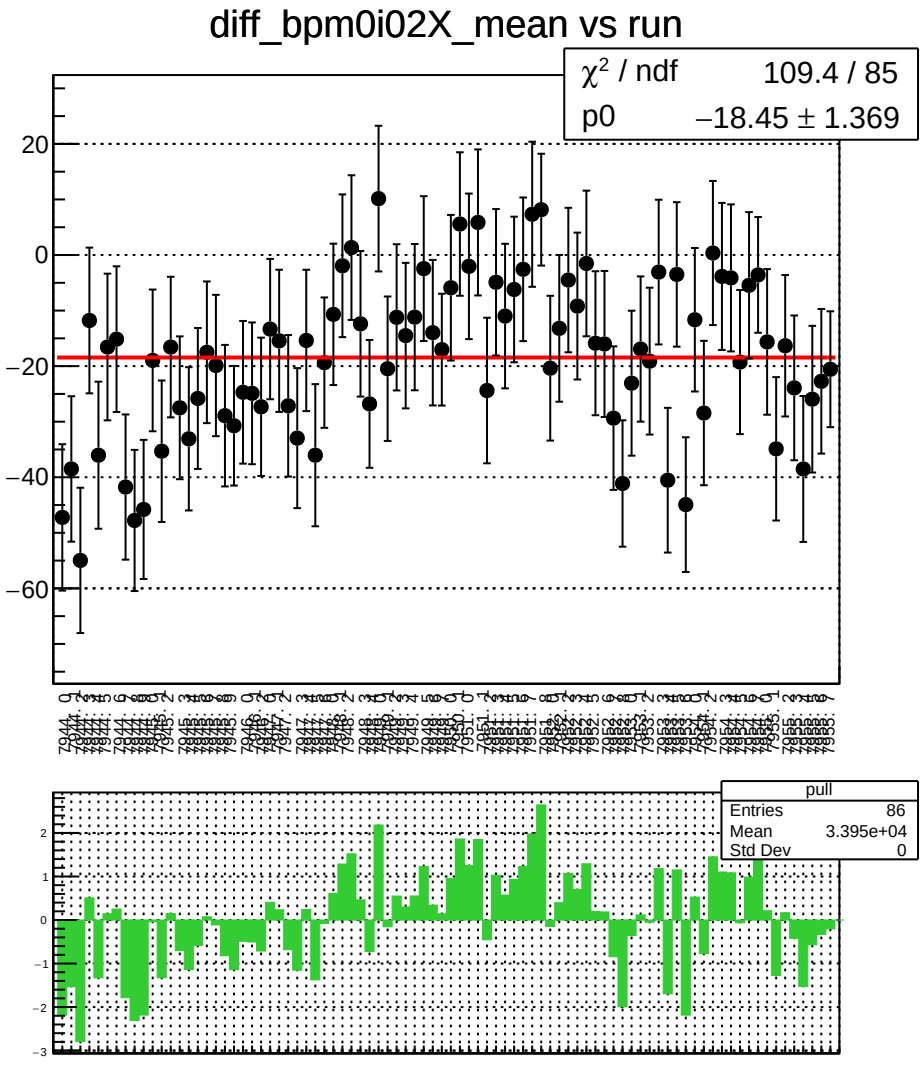

pull1D
Entries 86
Mean −0.0106
Std Dev 0.9532

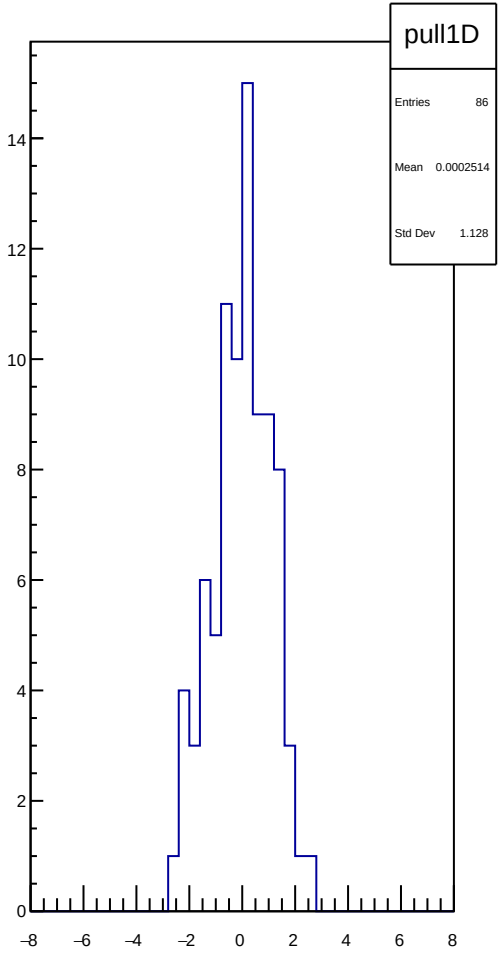

diff_bpm2i02X_rms vs run
χ² / ndf 283.7 / 85
p0 668.3 ± 0.5252
700
690
680
670
660
650
640

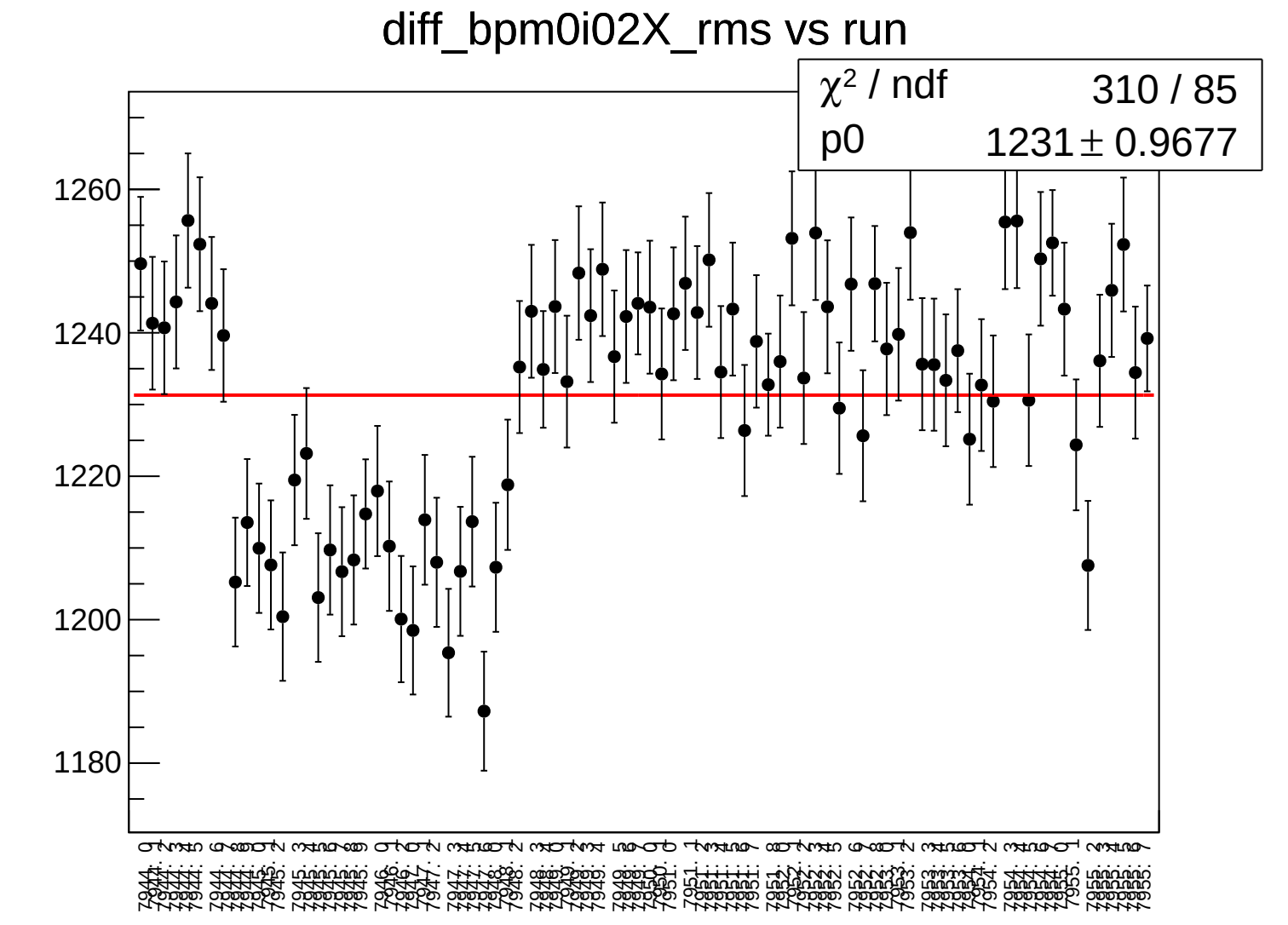

diff_bpm2i02Y_mean vs run
χ² / ndf 157.1 / 85
p0 23.45 ± 0.7183
pull
Entries 86
Mean −1213
Std Dev 0

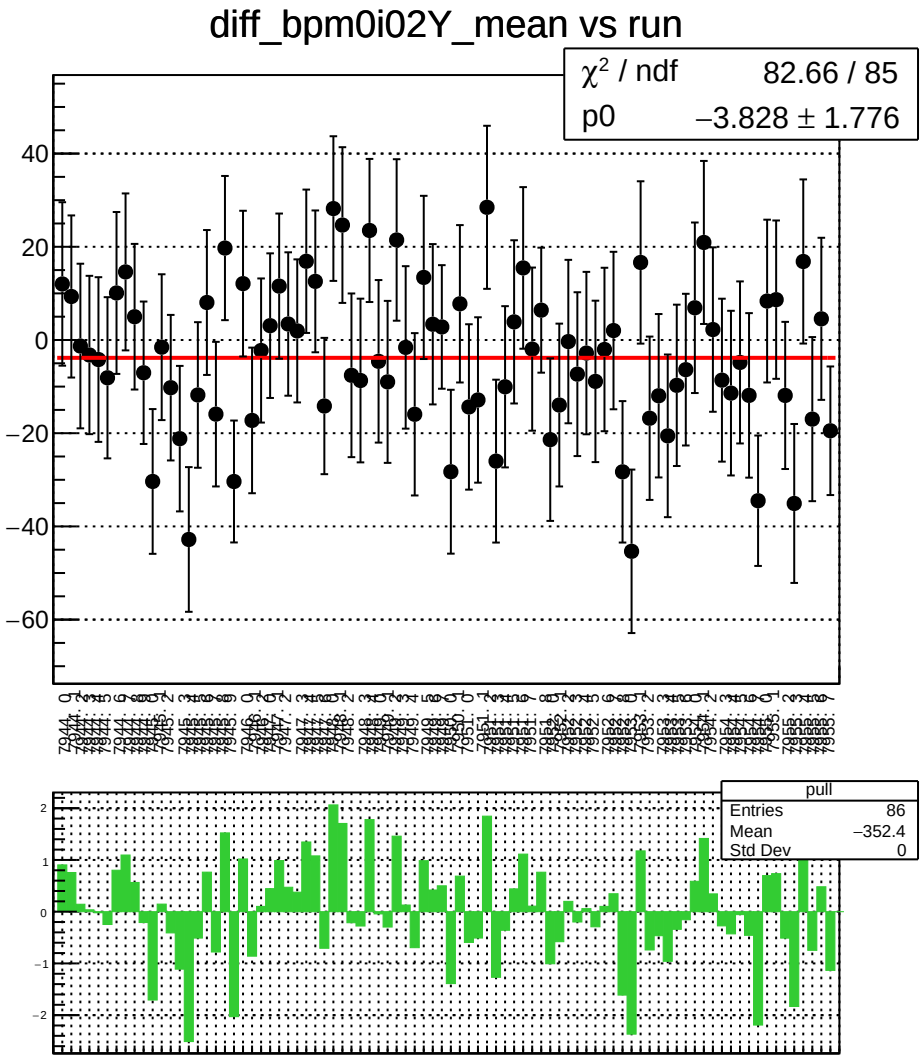

pull1D
Entries 86
Mean −0.006303
Std Dev 1.351

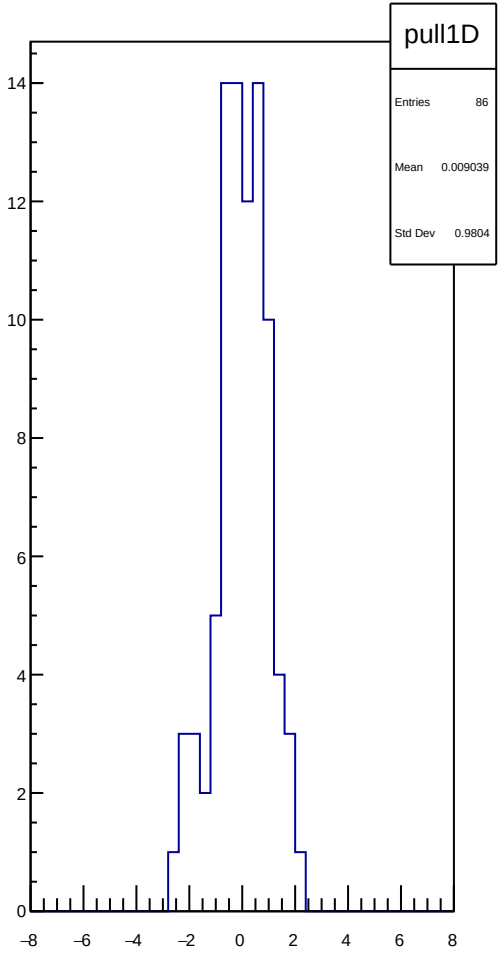

diff_bpm2i02Y_rms vs run
χ² / ndf 225.2 / 85
p0 646.3 ± 0.5079
670
660
650
640
630

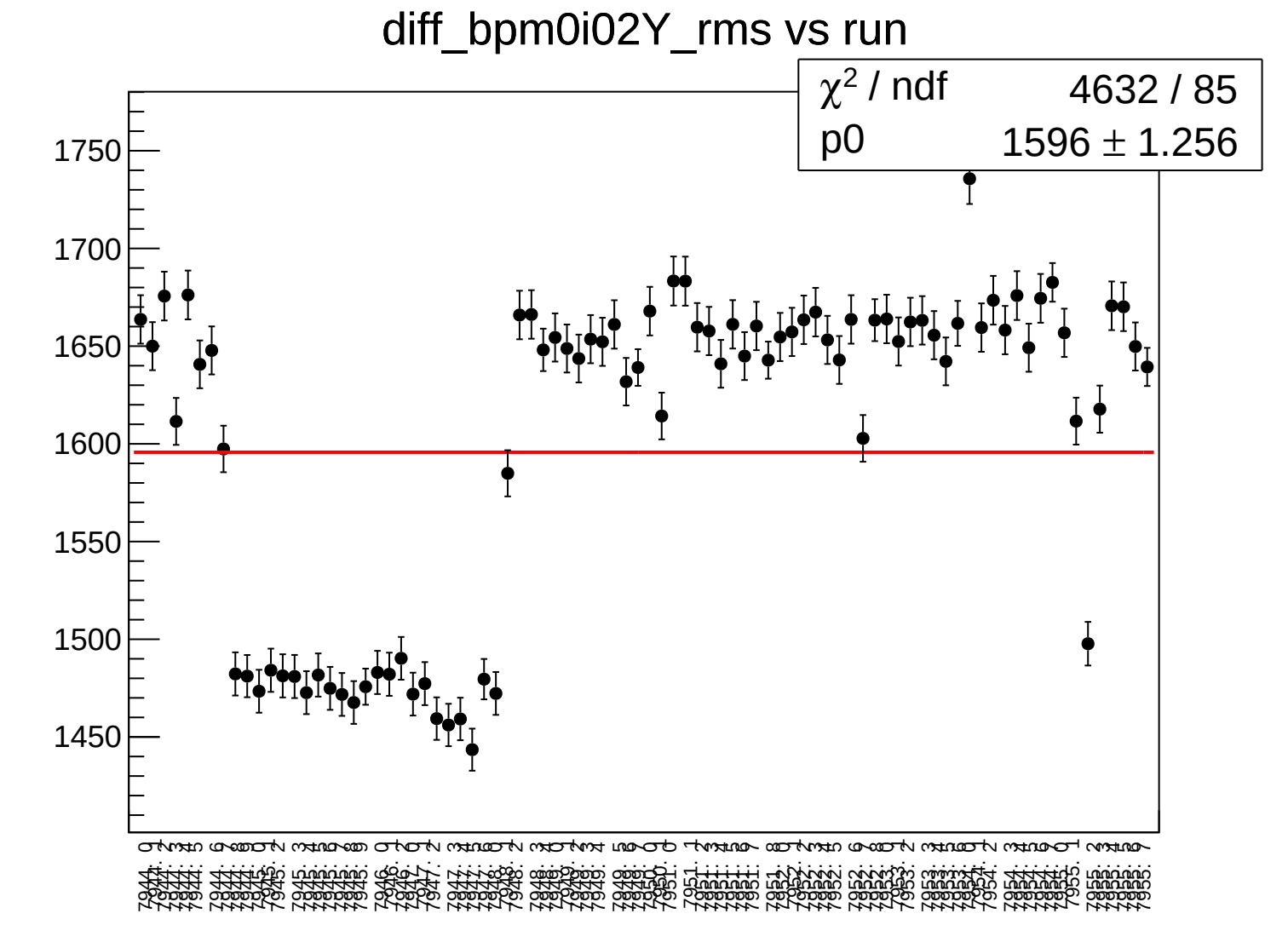

diff_bpm0i02X_mean vs run
χ² / ndf 109.4 / 85
p0 −18.45 ± 1.369
pull
Entries 86
Mean 3.395e+04
Std Dev 0

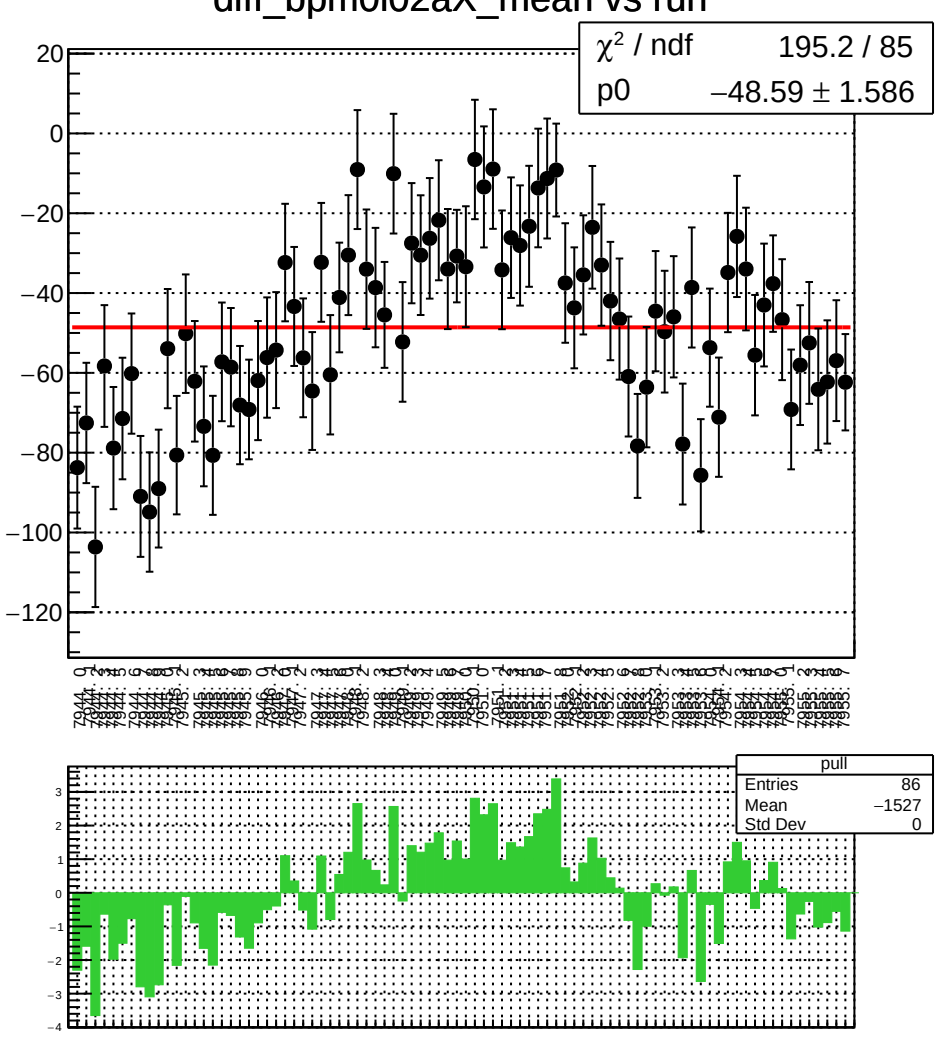

pull1D
Entries 86
Mean 0.0002514
Std Dev 1.128

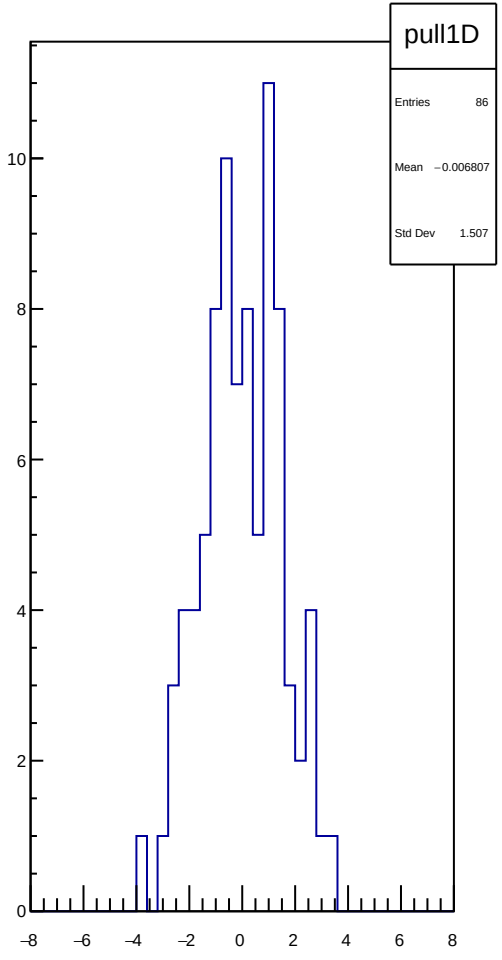

diff_bpm0i02X_rms vs run
χ² / ndf 310 / 85
p0 1231 ± 0.9677
1260
1240
1220
1200
1180

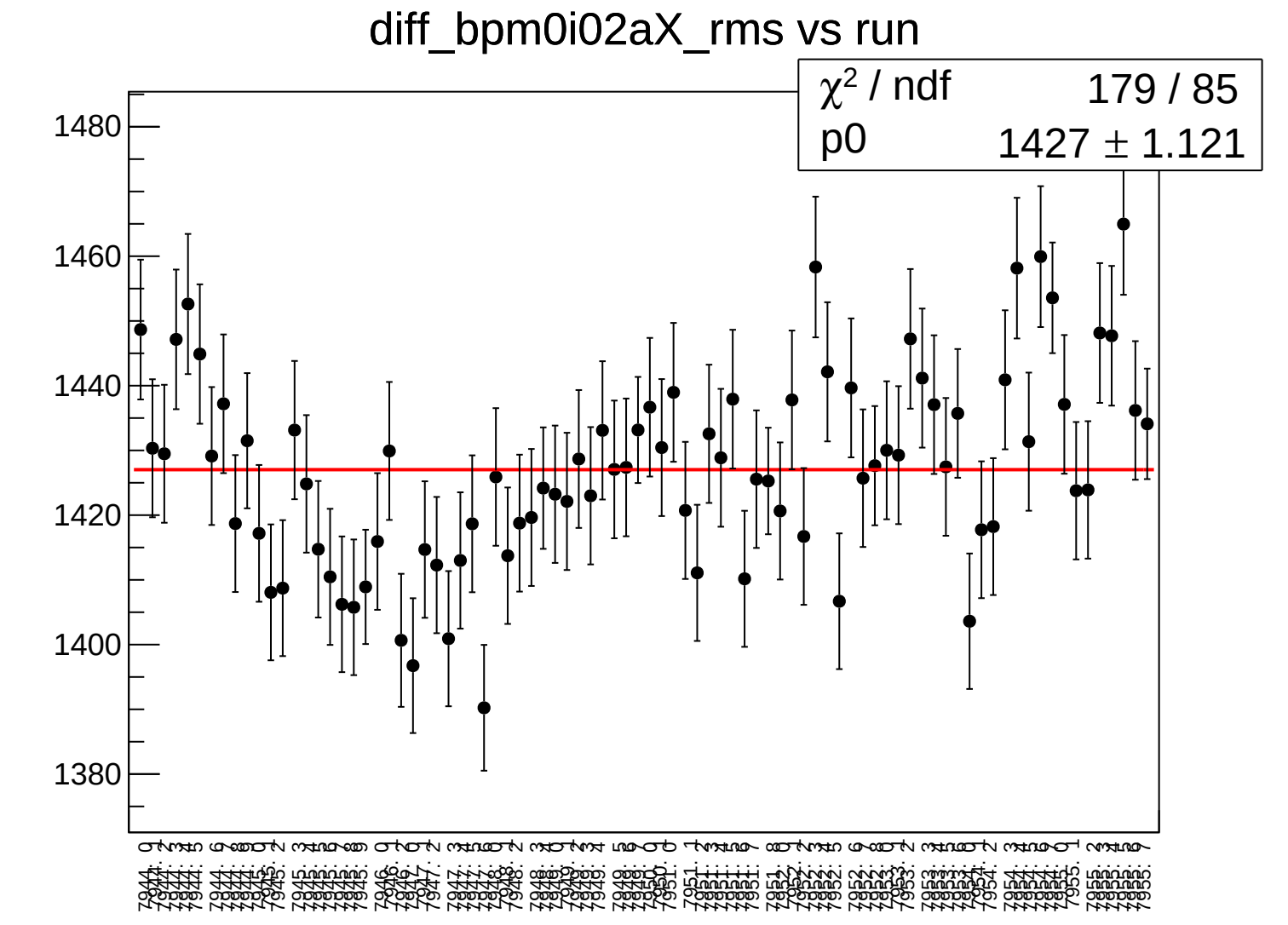

diff_bpm0i02Y_mean vs run
χ² / ndf 82.66 / 85
p0 −3.828 ± 1.776
pull
Entries 86
Mean −352.4
Std Dev 0

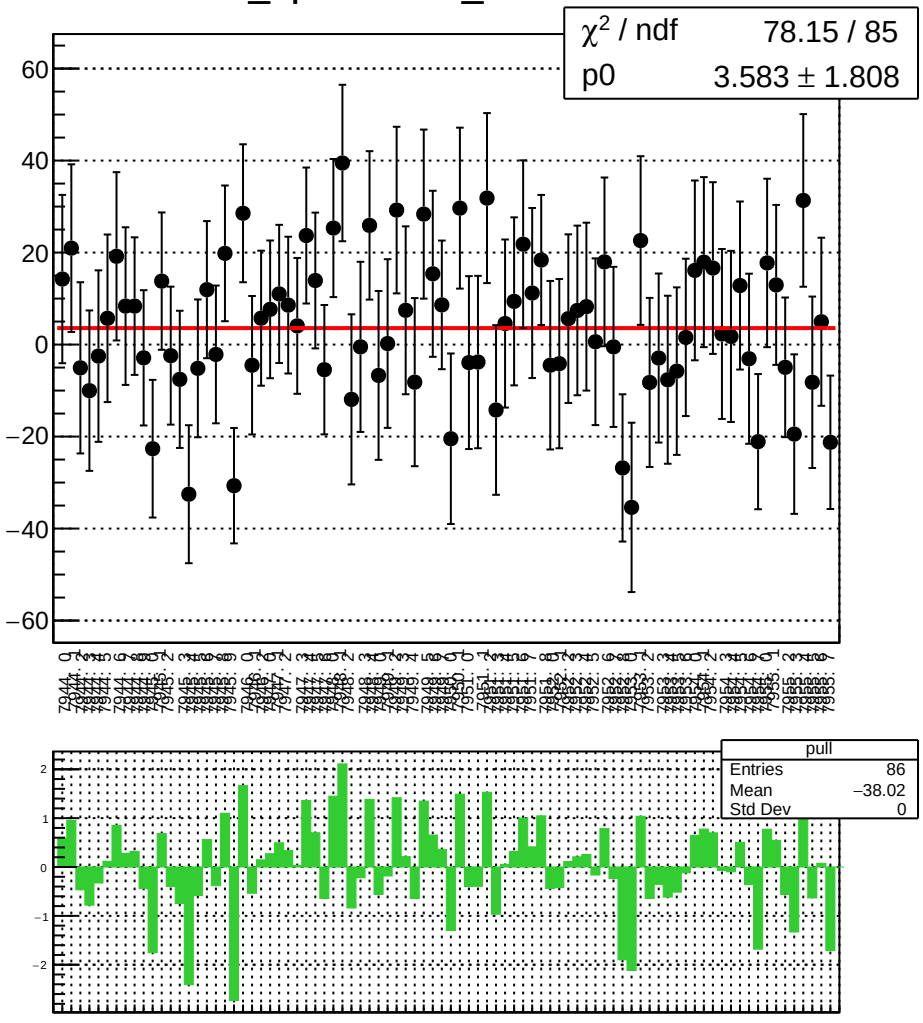

pull1D
Entries 86
Mean 0.009039
Std Dev 0.9804

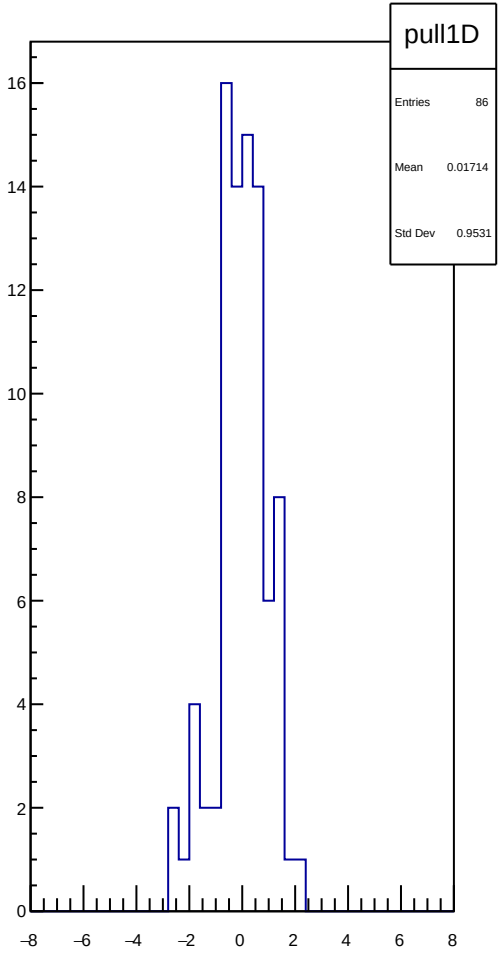

diff_bpm0i02Y_rms vs run
χ² / ndf 4632 / 85
p0 1596 ± 1.256
1750
1700
1650
1600
1550
1500
1450

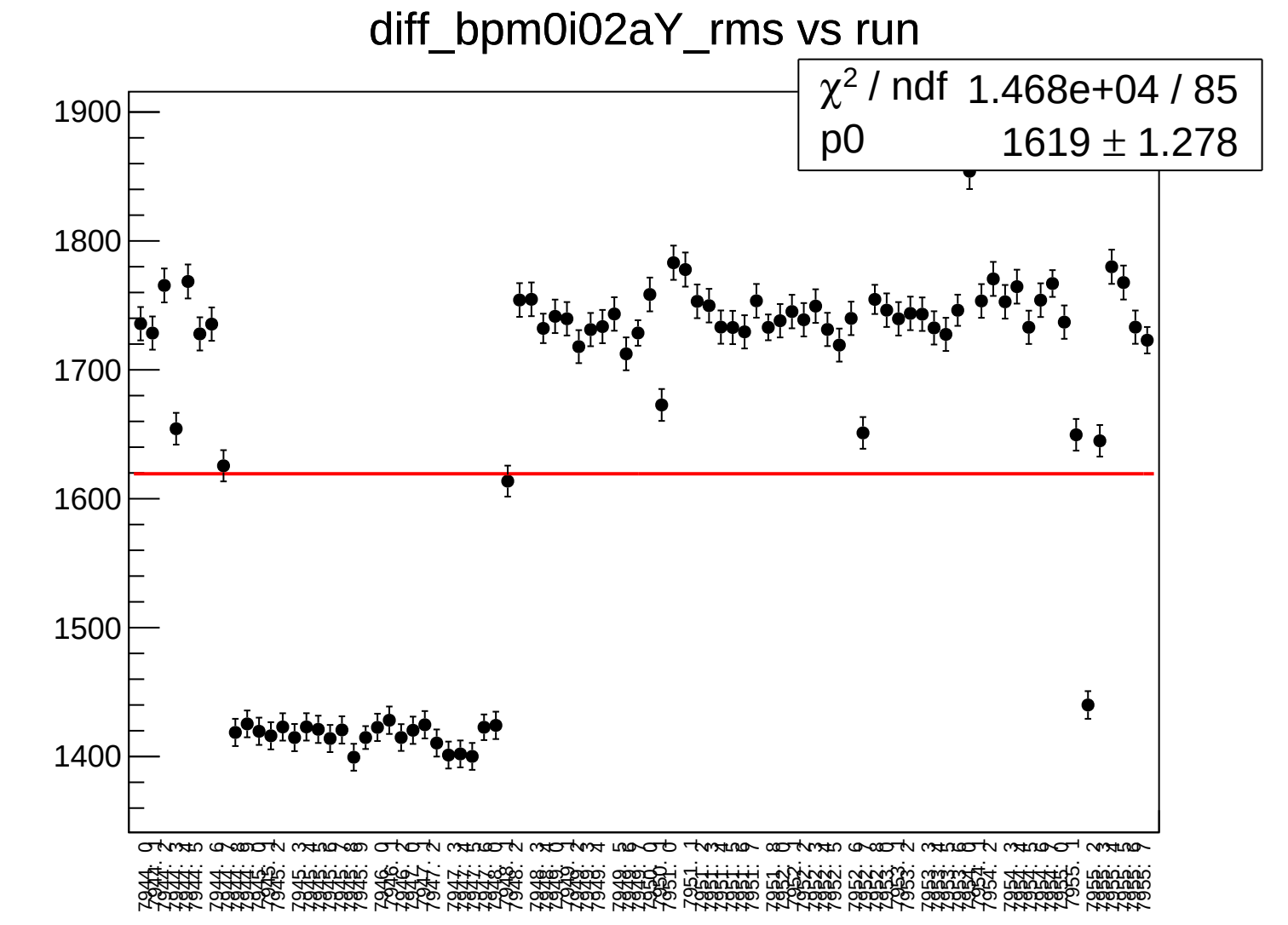

diff_bpm0i02aX_mean vs run
χ² / ndf 195.2 / 85
p0 −48.59 ± 1.586
pull
Entries 86
Mean −1527
Std Dev 0

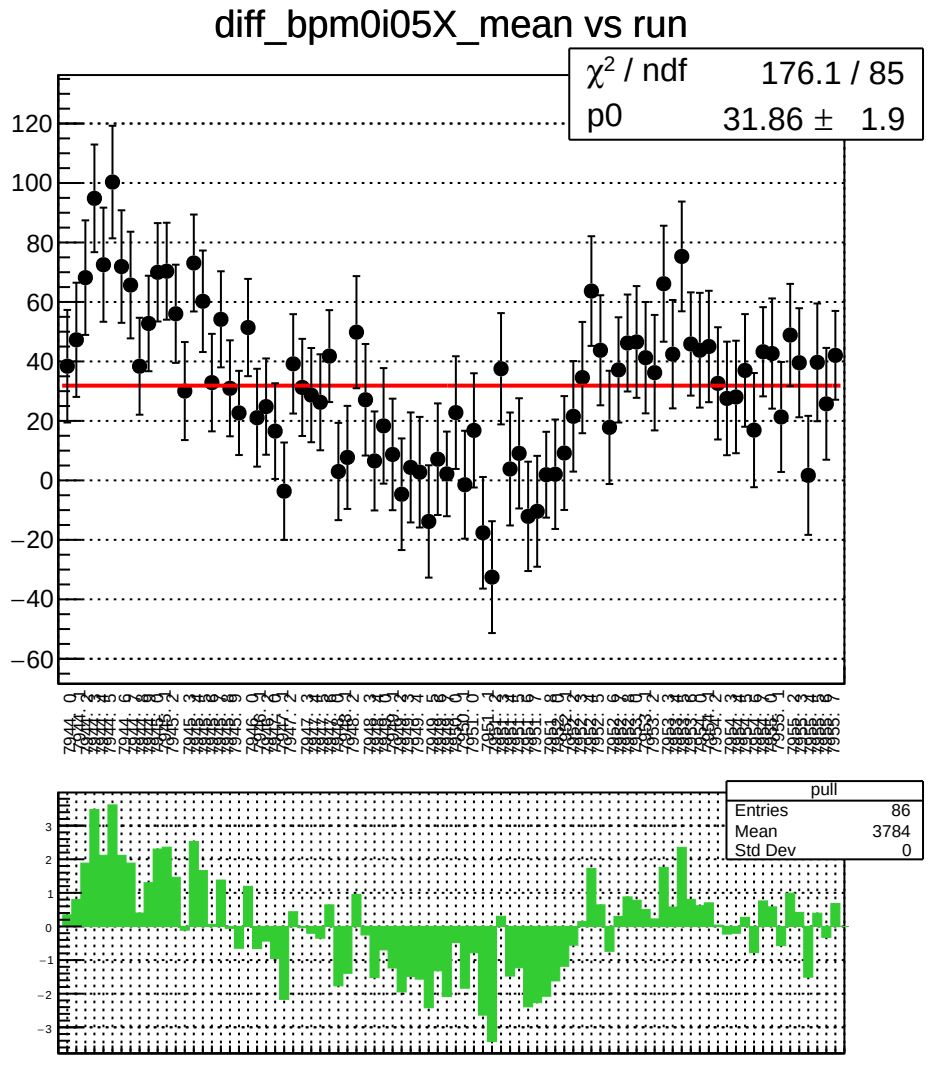

pull1D
Entries 86
Mean −0.006807
Std Dev 1.507

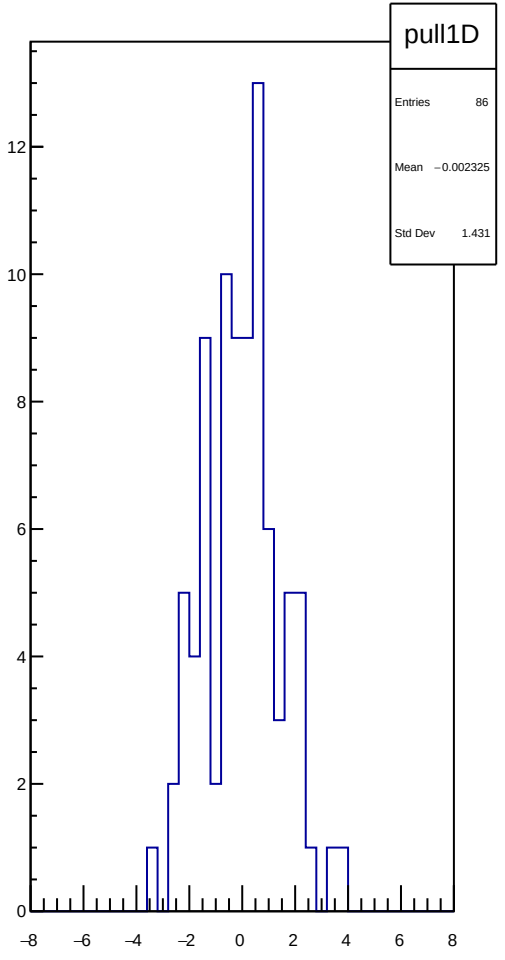

diff_bpm0i02aX_rms vs run
χ² / ndf 179 / 85
p0 1427 ± 1.121
1480
1460
1440
1420
1400
1380

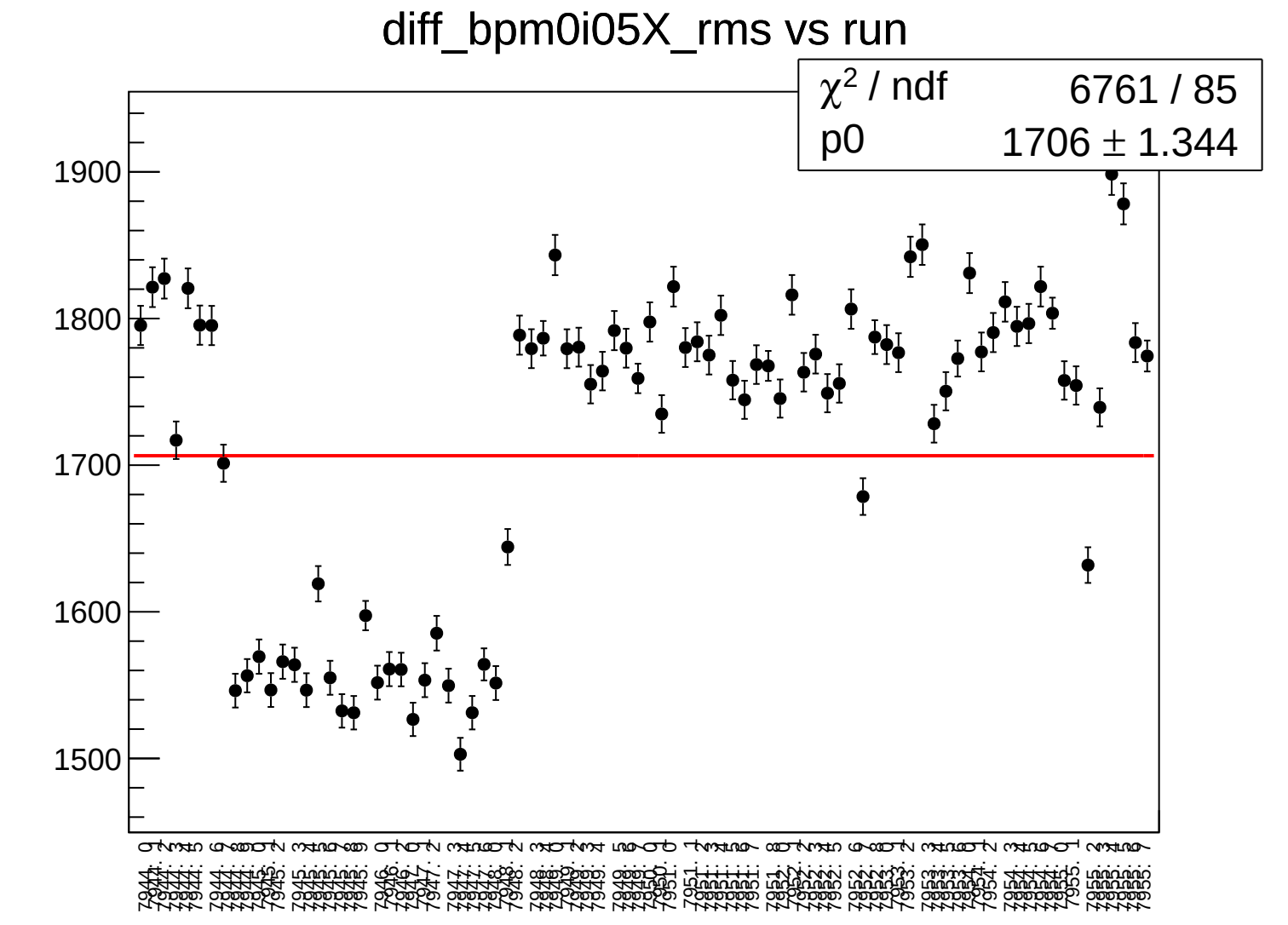

diff_bpm0i02aY_mean vs run
χ² / ndf 78.15 / 85
p0 3.583 ± 1.808
pull
Entries 86
Mean −38.02
Std Dev 0

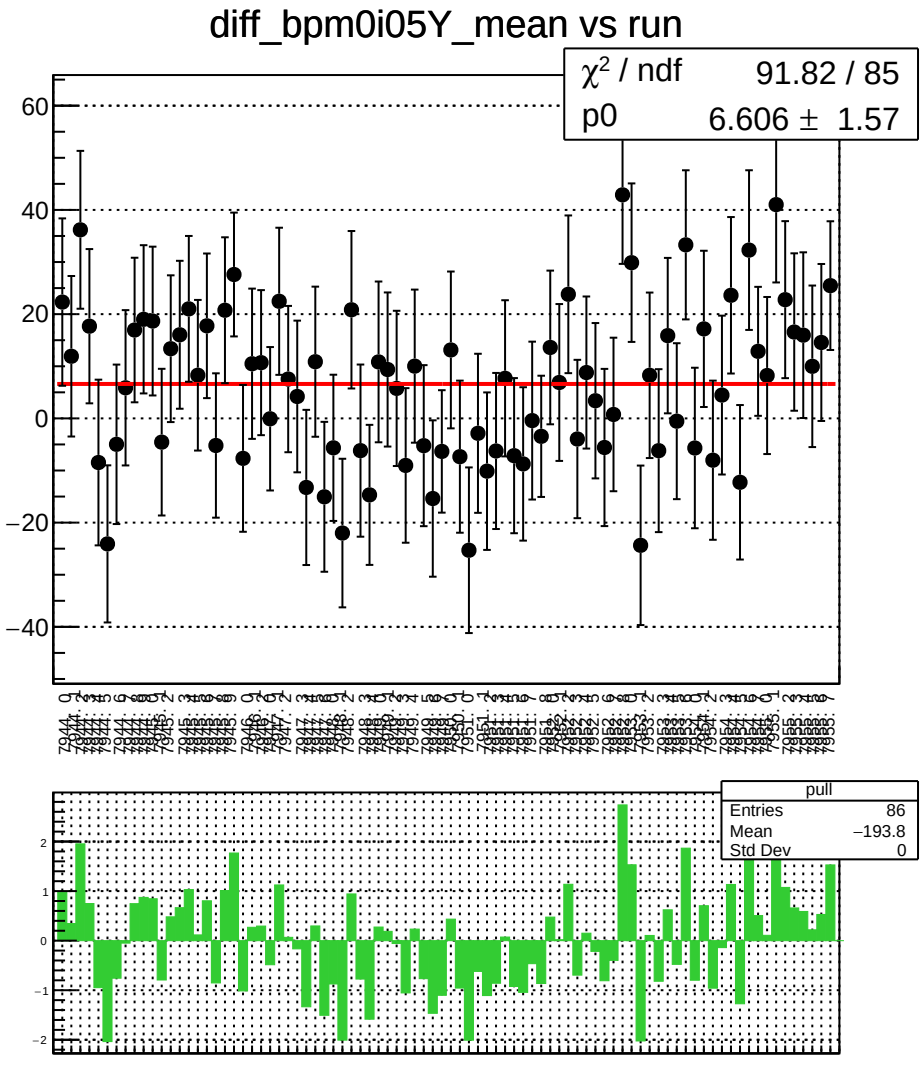

pull1D
Entries 86
Mean 0.01714
Std Dev 0.9531

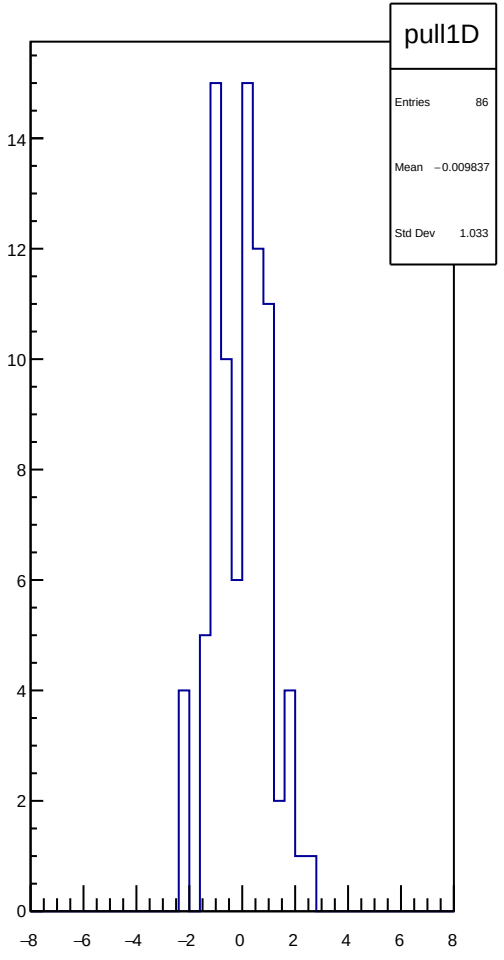

diff_bpm0i02aY_rms vs run
χ² / ndf 1.468e+04 / 85
p0 1619 ± 1.278
1900
1800
1700
1600
1500
1400

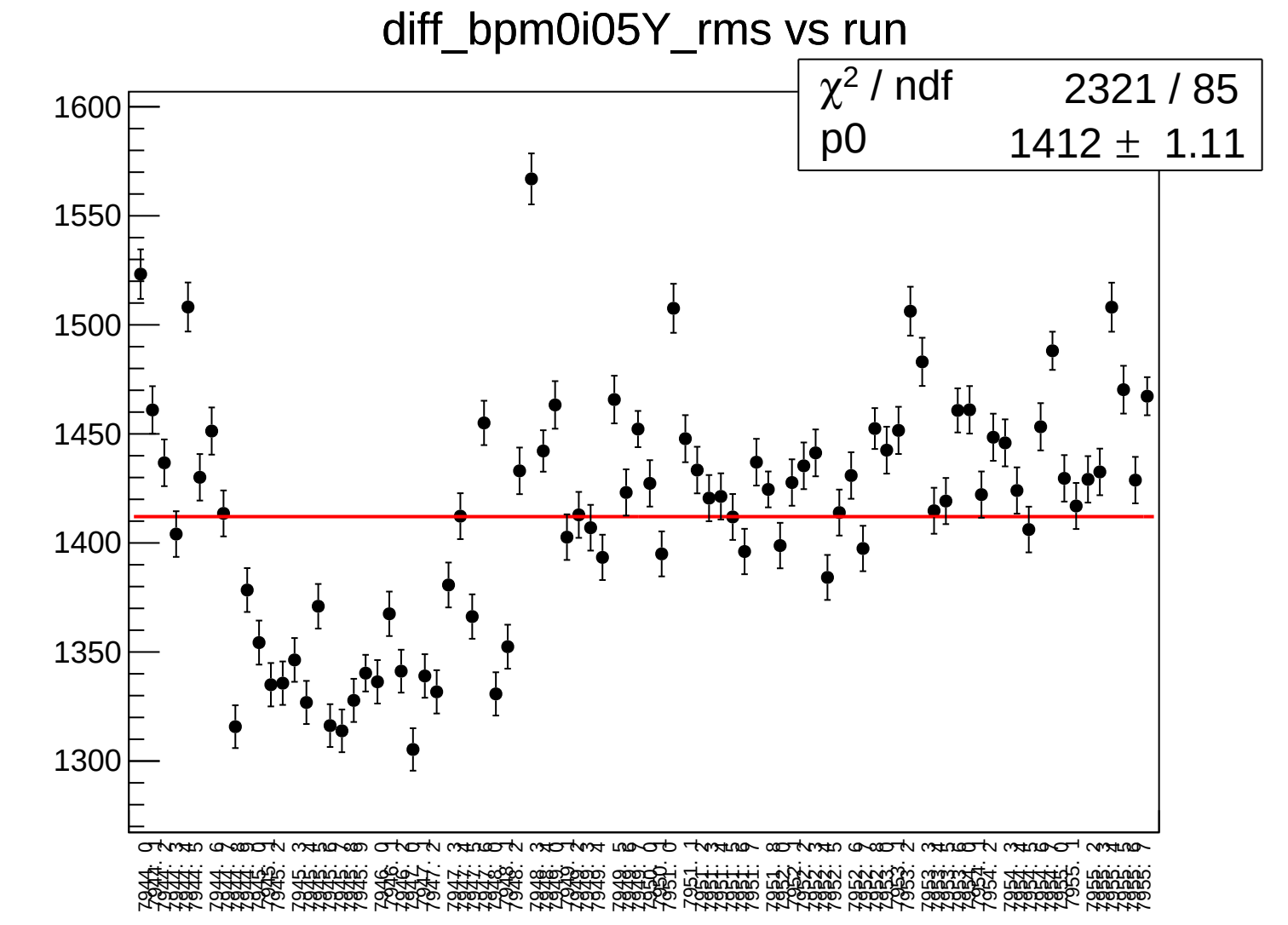

diff_bpm0i05X_mean vs run
χ² / ndf 176.1 / 85
p0 31.86 ± 1.9
pull
Entries 86
Mean 3784
Std Dev 0

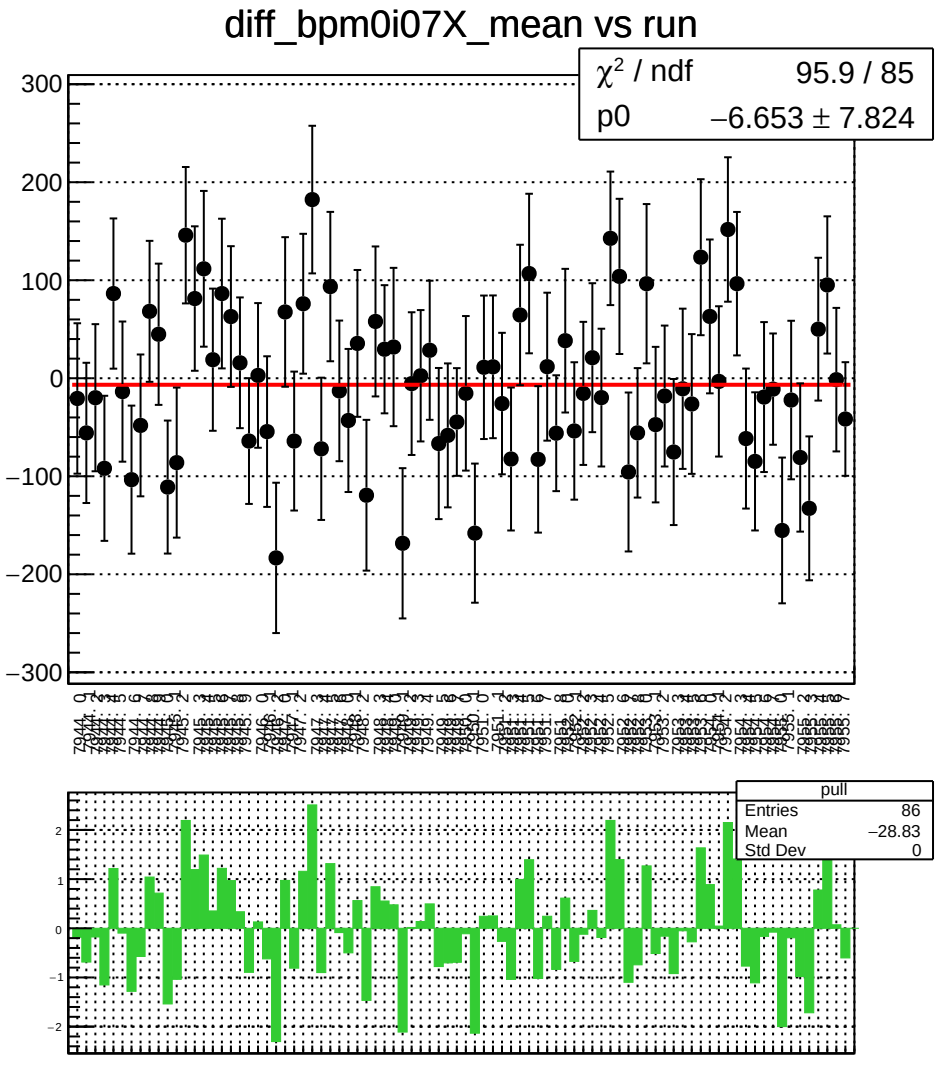

pull1D
Entries 86
Mean −0.002325
Std Dev 1.431

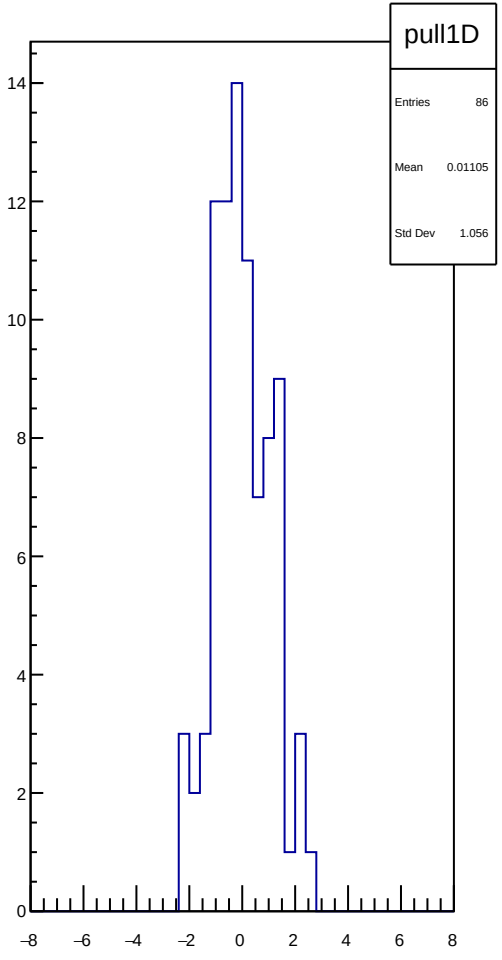

diff_bpm0i05X_rms vs run
χ^2 / ndf 6761 / 85
p0 1706 ± 1.344
1900
1800
1700
1600
1500

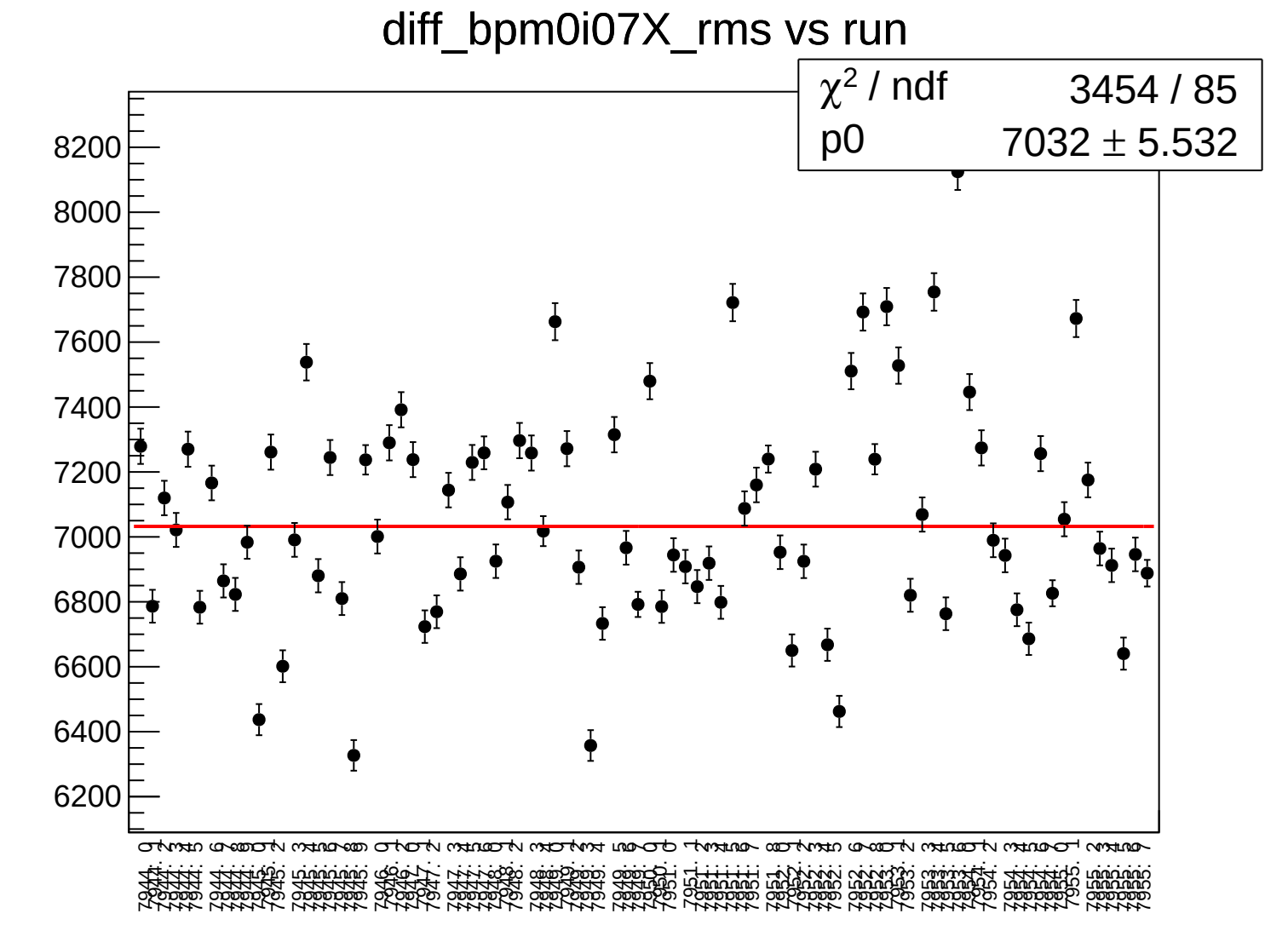

diff_bpm0i05Y_mean vs run
χ^2 / ndf 91.82 / 85
p0 6.606 ± 1.57
pull
Entries 86
Mean −193.8
Std Dev 0

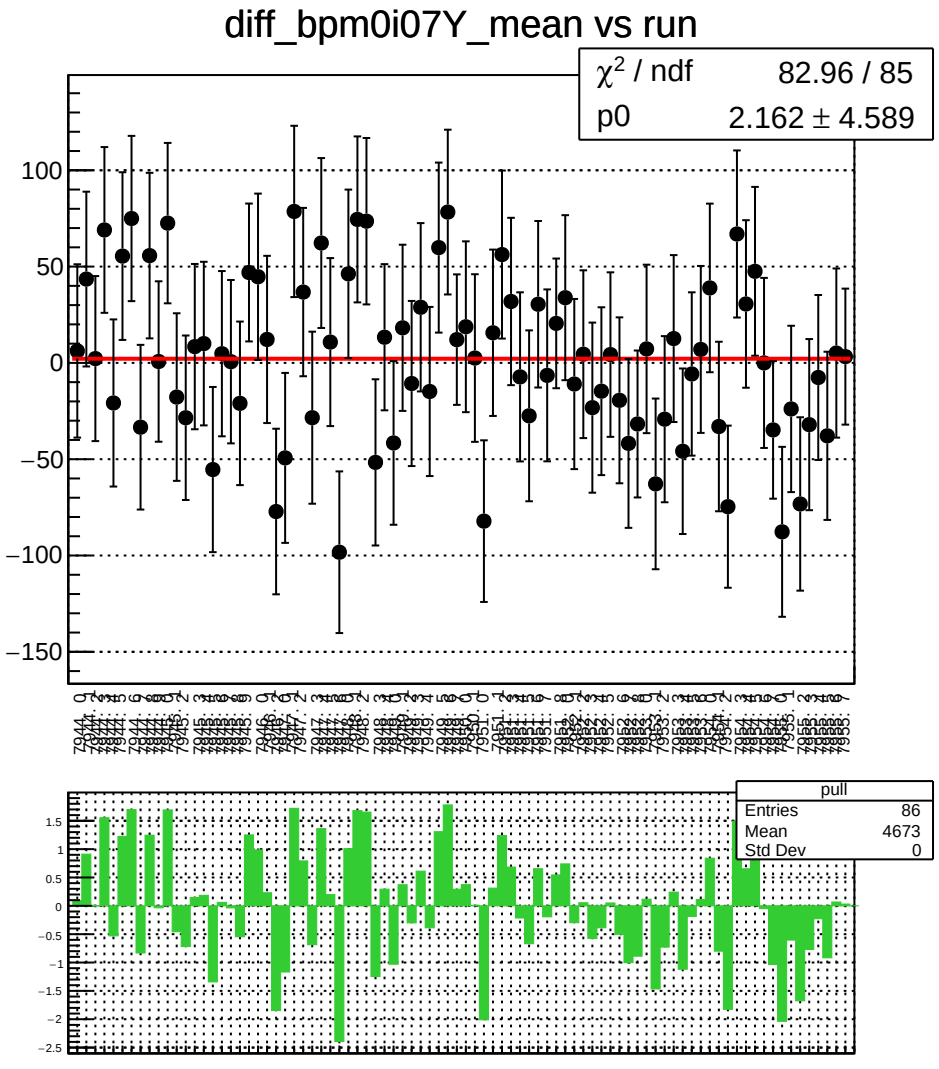

pull1D
Entries 86
Mean −0.009837
Std Dev 1.033

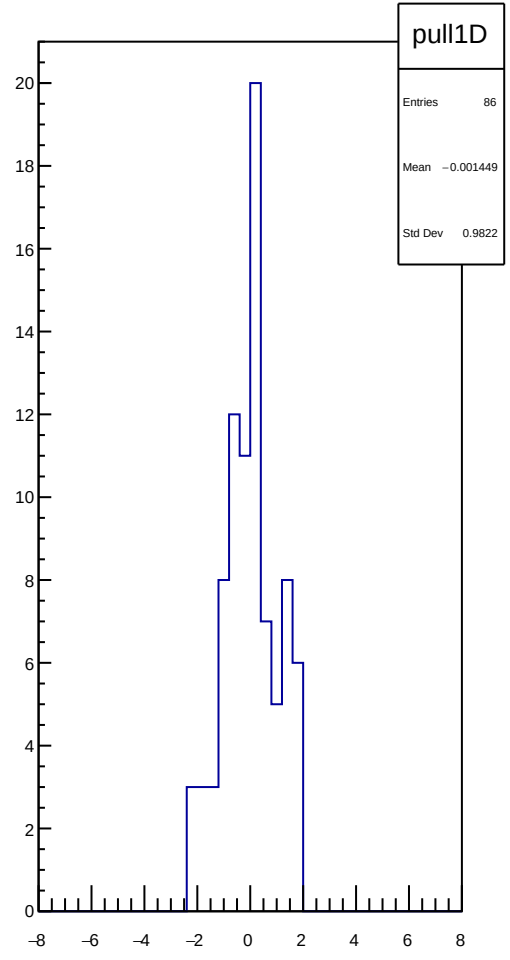

diff_bpm0i05Y_rms vs run
χ² / ndf 2321 / 85
p0 1412 ± 1.11
1600
1550
1500
1450
1400
1350
1300

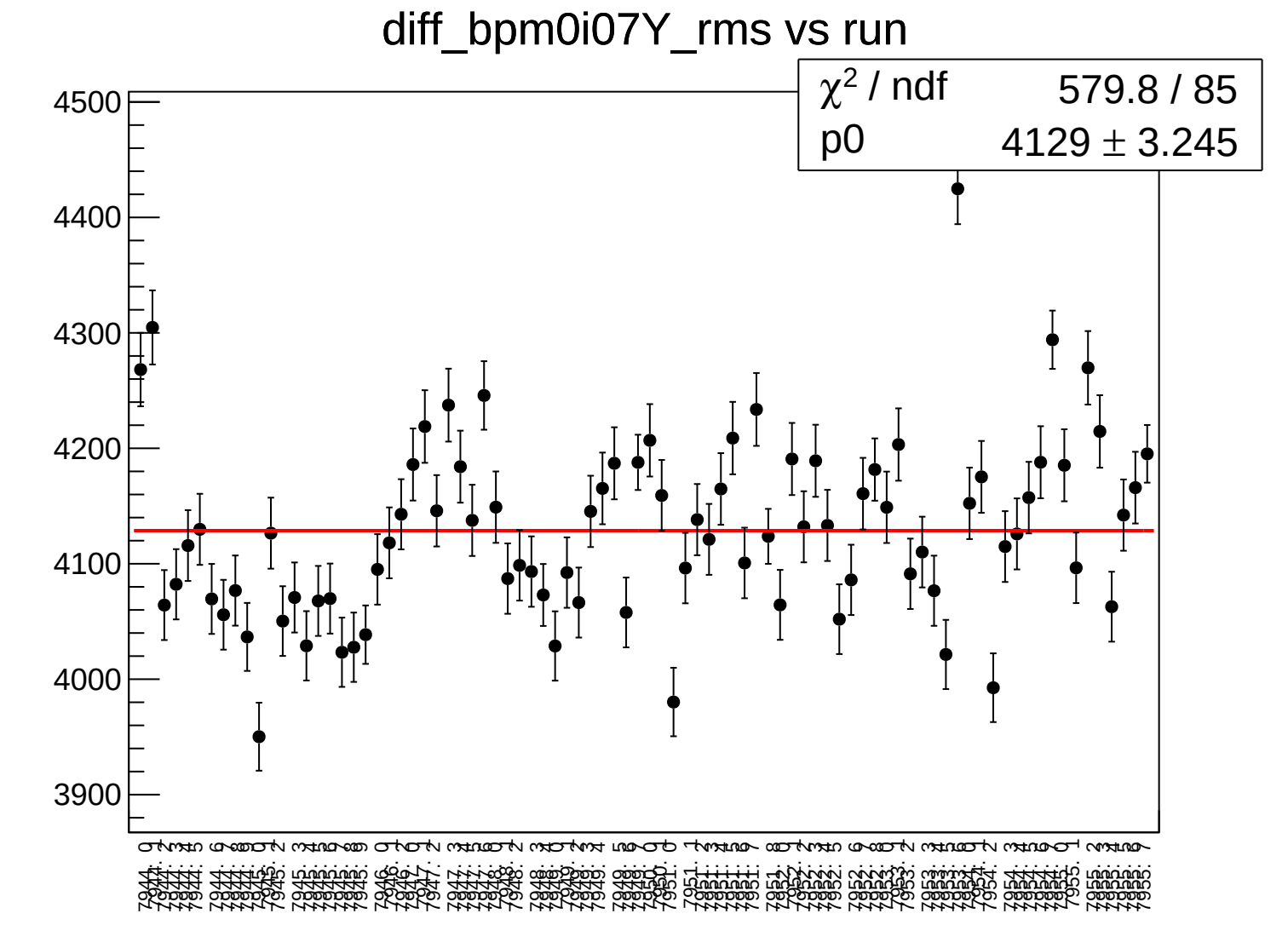

diff_bpm0i07X_mean vs run
χ² / ndf 95.9 / 85
p0 −6.653 ± 7.824
pull
Entries 86
Mean −28.83
Std Dev 0

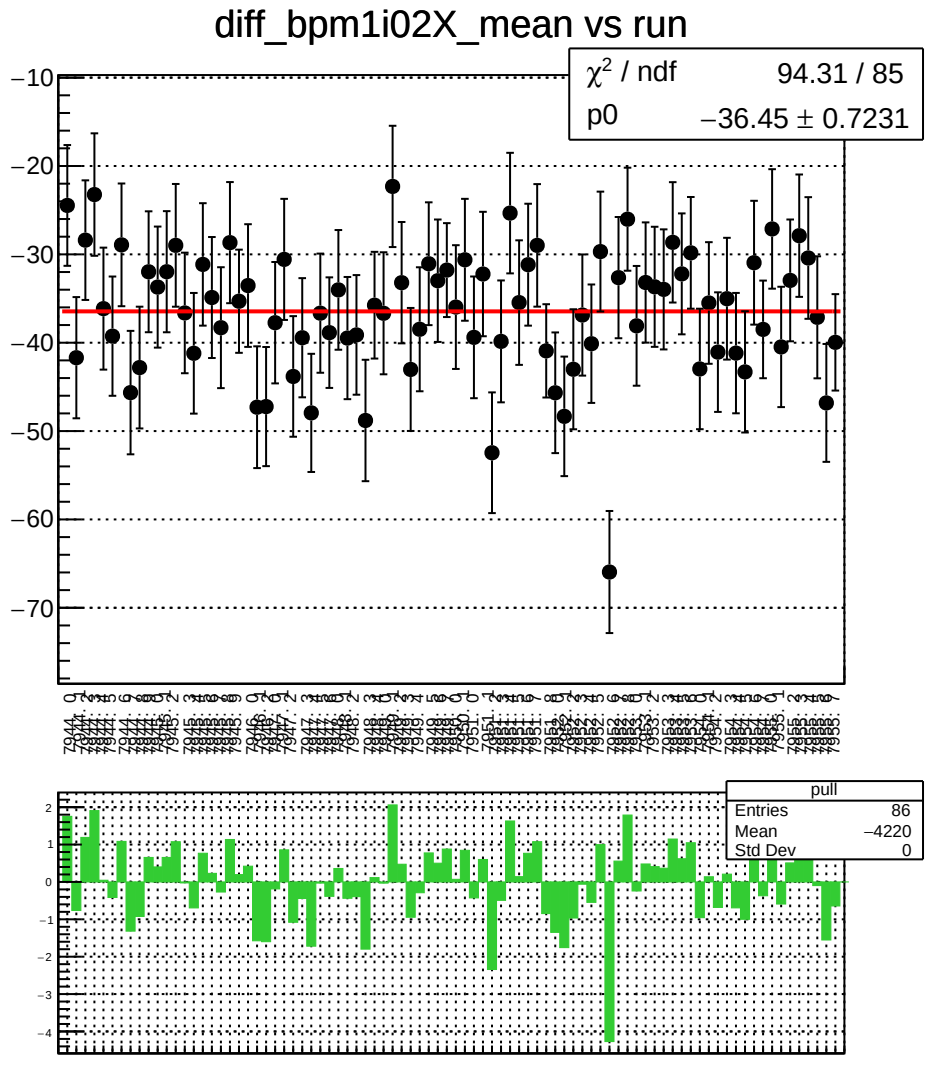

pull1D
Entries 86
Mean 0.01105
Std Dev 1.056

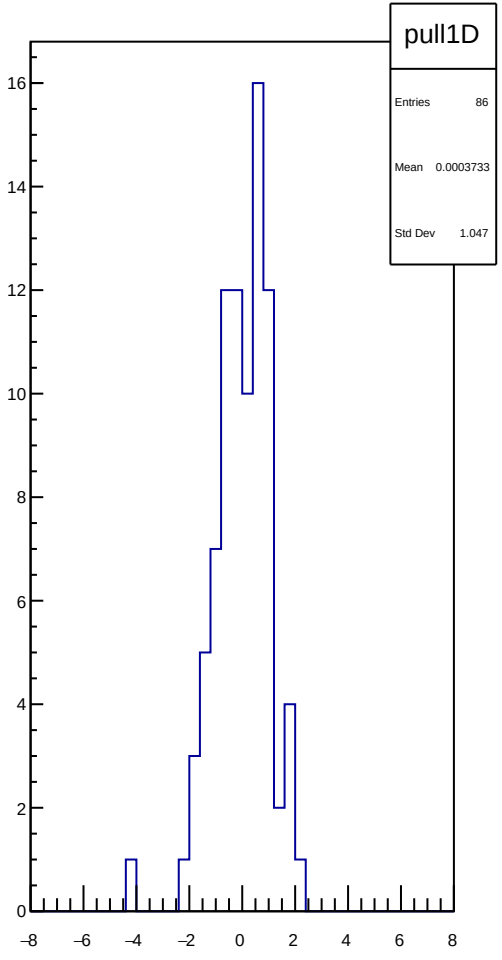

diff_bpm0i07X_rms vs run
χ² / ndf 3454 / 85
p0 7032 ± 5.532
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

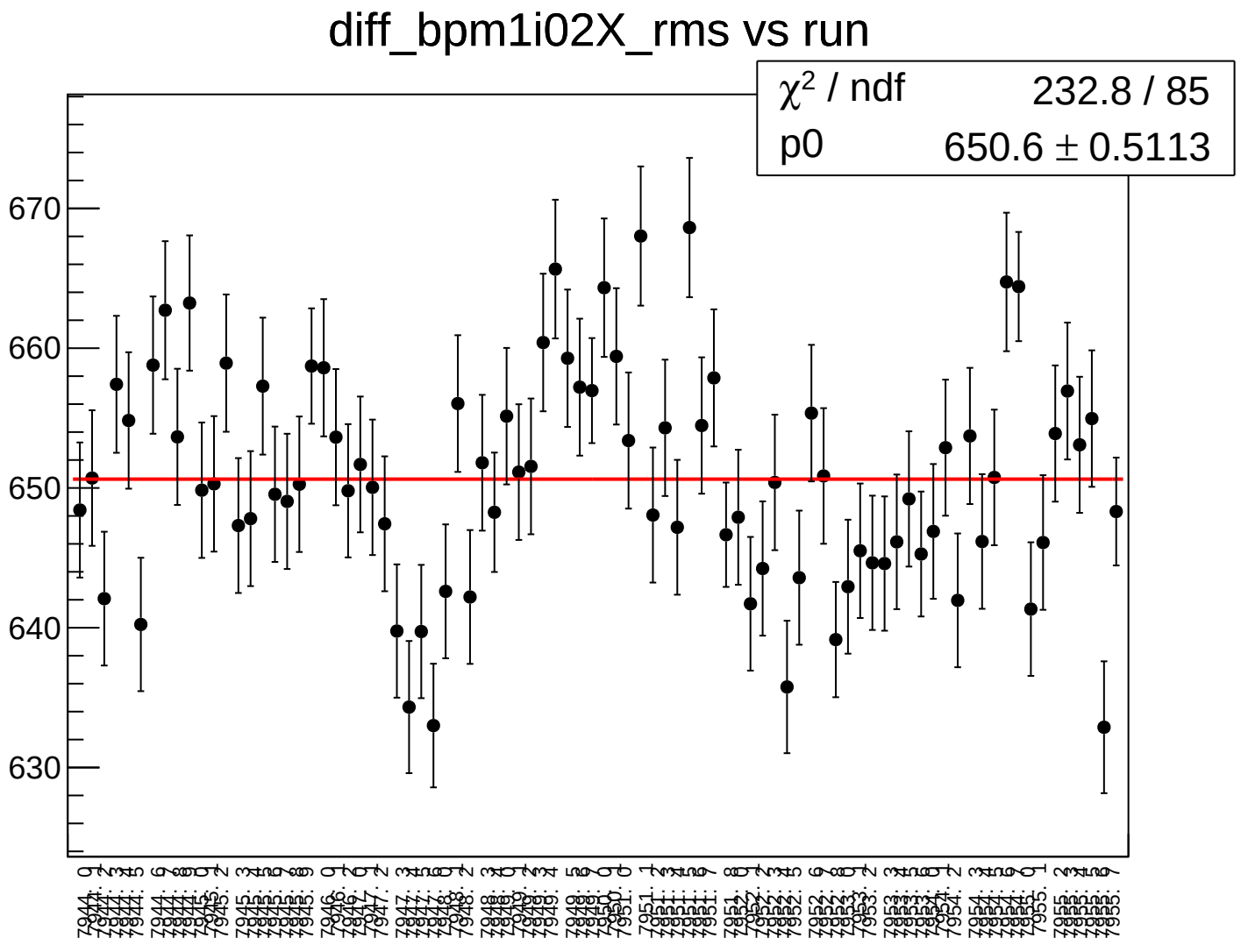

diff_bpm0i07Y_mean vs run
χ^2 / ndf 82.96 / 85
p0 2.162 ± 4.589
pull
Entries 86
Mean 4673
Std Dev 0

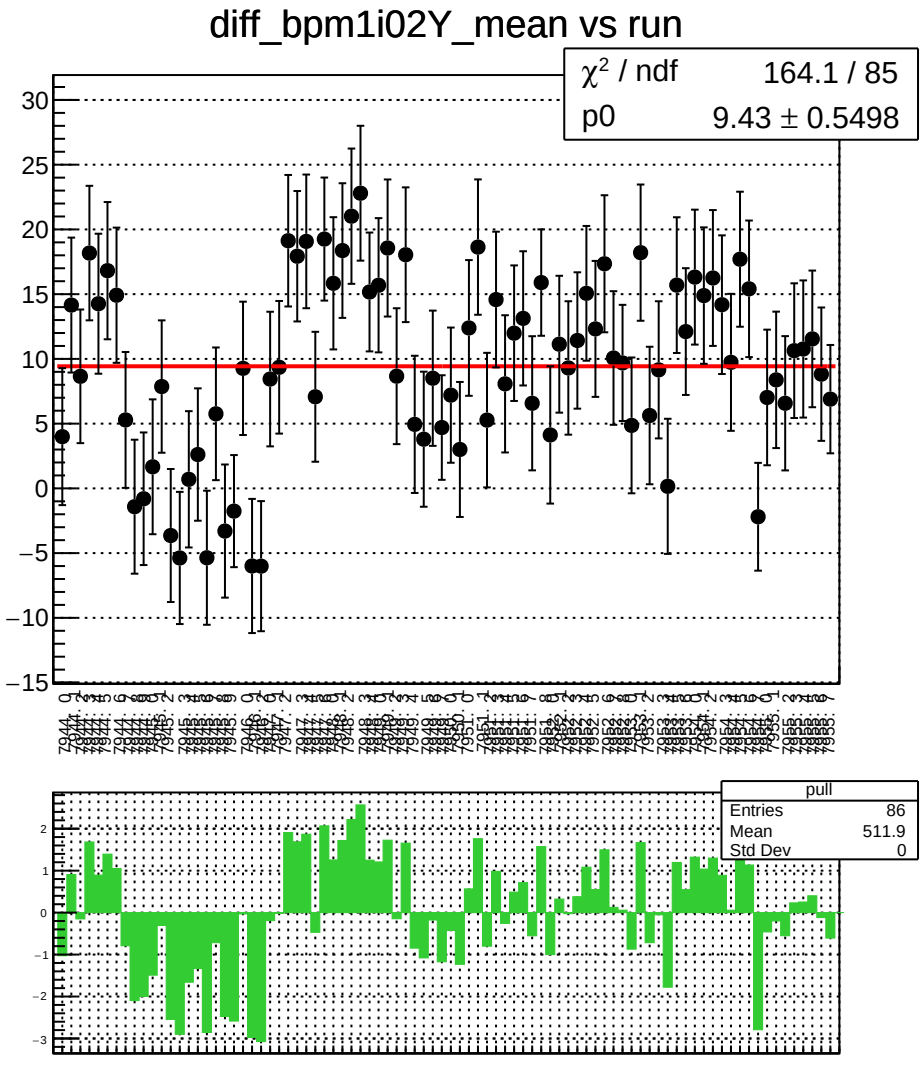

pull1D
Entries 86
Mean −0.001449
Std Dev 0.9822

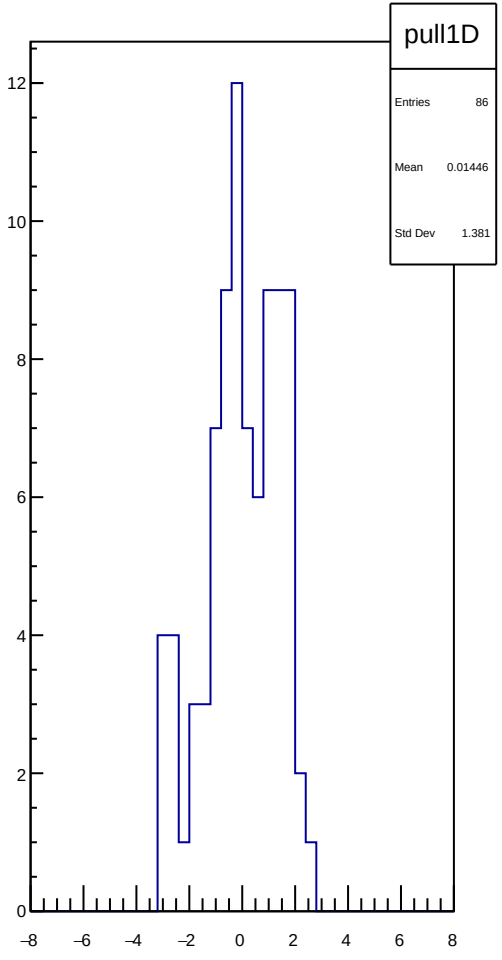

diff_bpm0i07Y_rms vs run
χ² / ndf 579.8 / 85
p0 4129 ± 3.245
4500
4400
4300
4200
4100
4000
3900

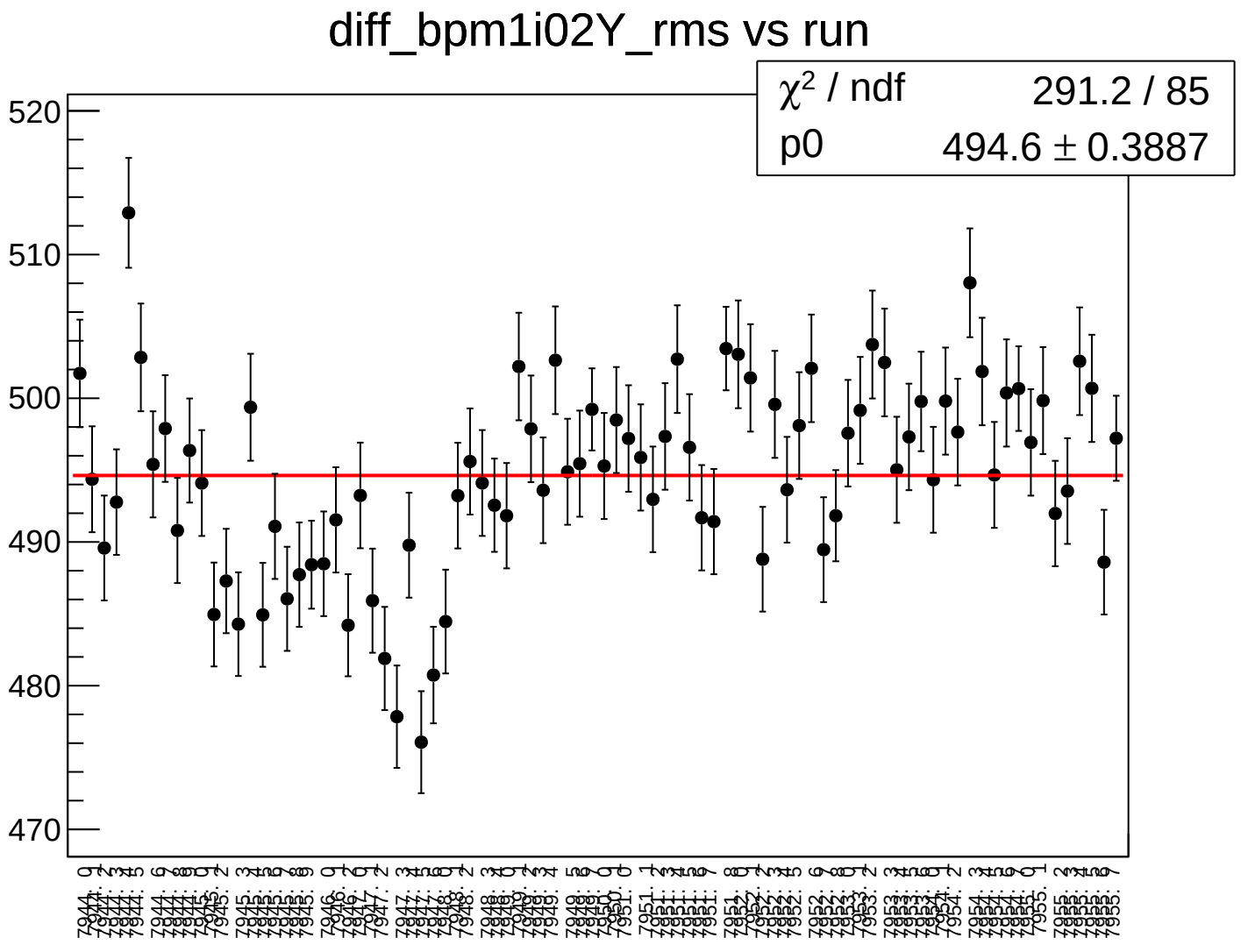

diff_bpm1i02X_mean vs run
χ² / ndf 94.31 / 85
p0 −36.45 ± 0.7231
pull
Entries 86
Mean −4220
Std Dev 0

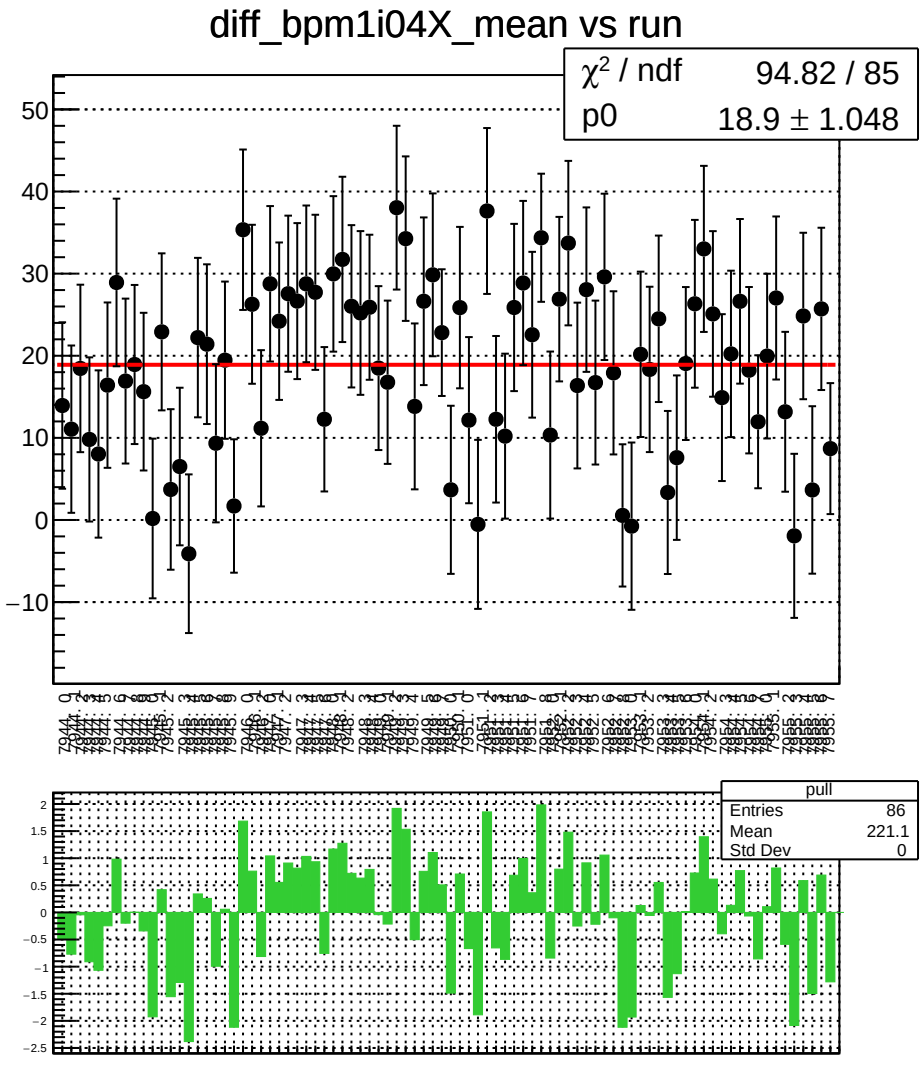

pull1D
Entries 86
Mean 0.0003733
Std Dev 1.047

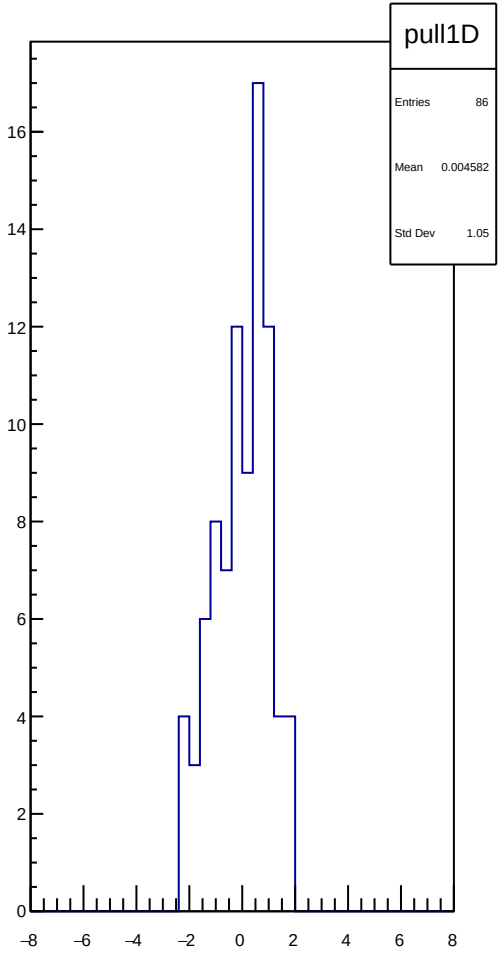

diff_bpm1i02X_rms vs run
χ² / ndf 232.8 / 85
p0 650.6 ± 0.5113
670
660
650
640
630

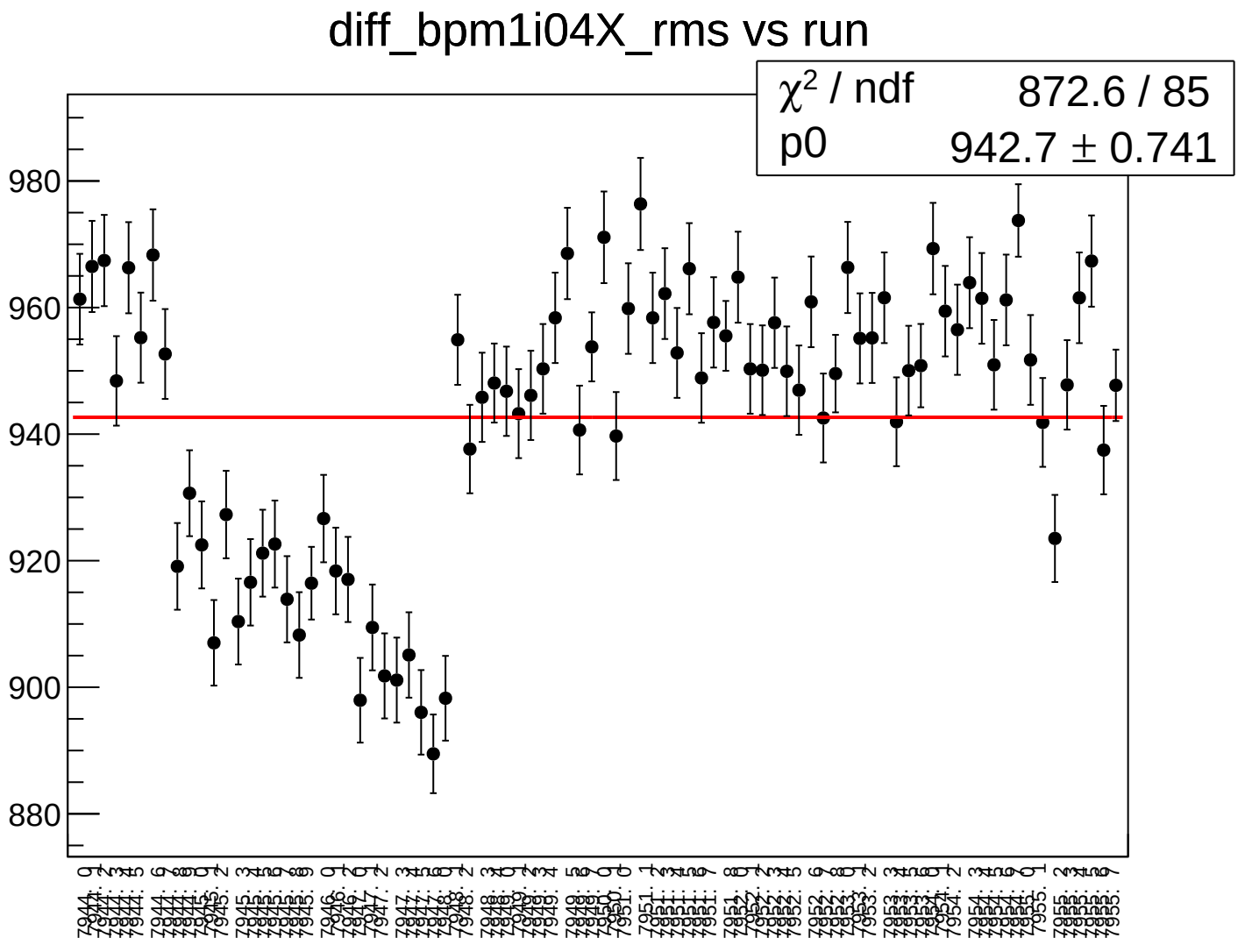

diff_bpm1i02Y_mean vs run
χ² / ndf 164.1 / 85
p0 9.43 ± 0.5498
pull
Entries 86
Mean 511.9
Std Dev 0

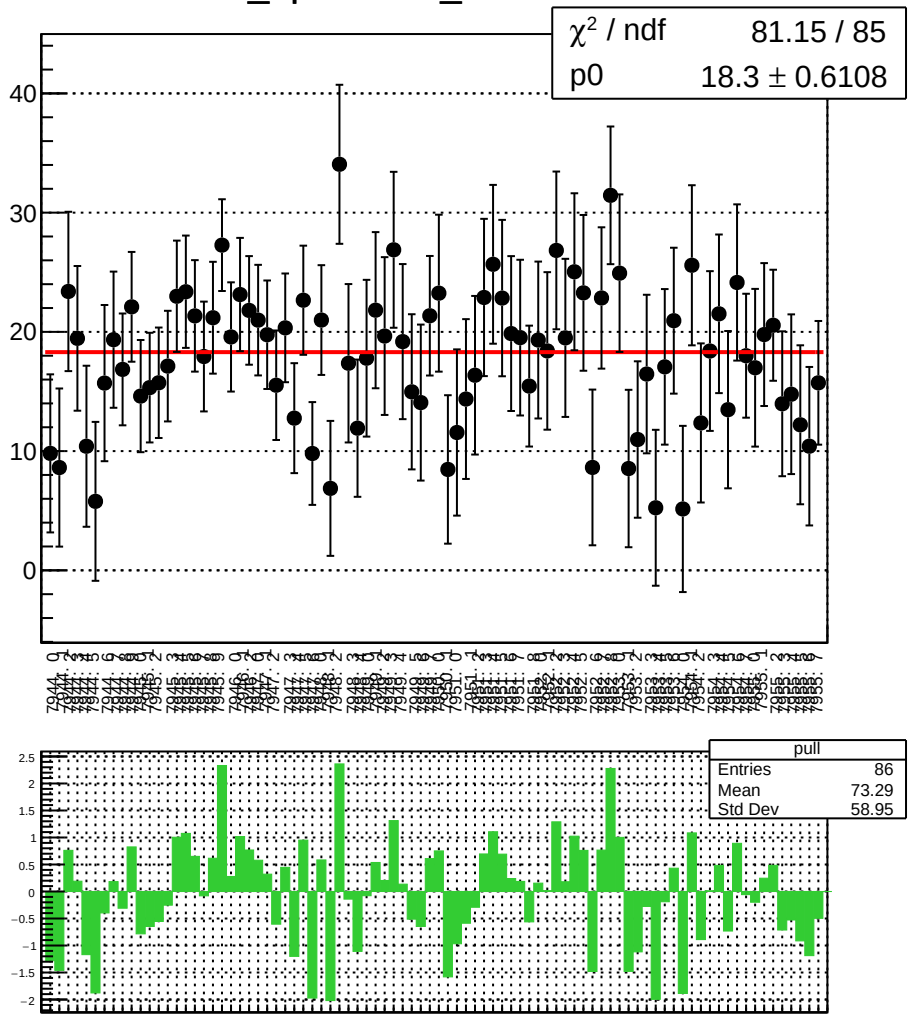

pull1D
Entries 86
Mean 0.01446
Std Dev 1.381

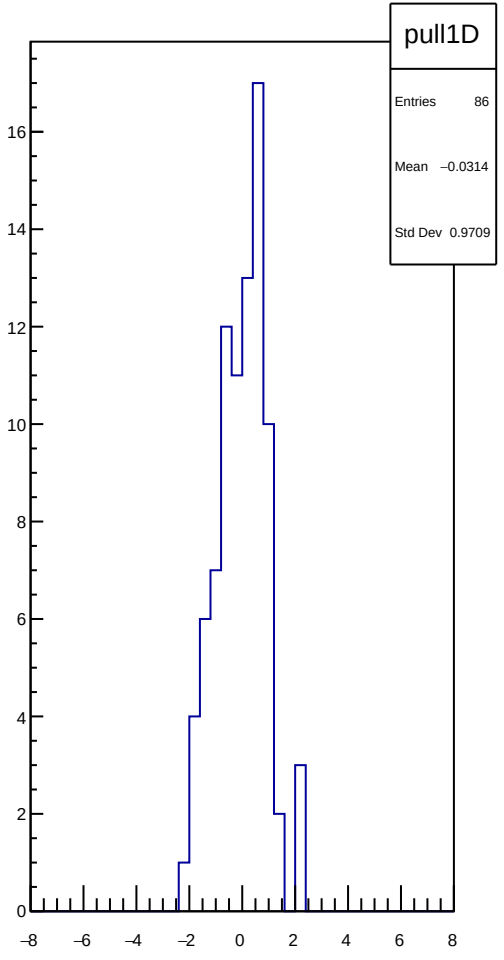

diff_bpm1i02Y_rms vs run
χ² / ndf 291.2 / 85
p0 494.6 ± 0.3887
520
510
500
490
480
470

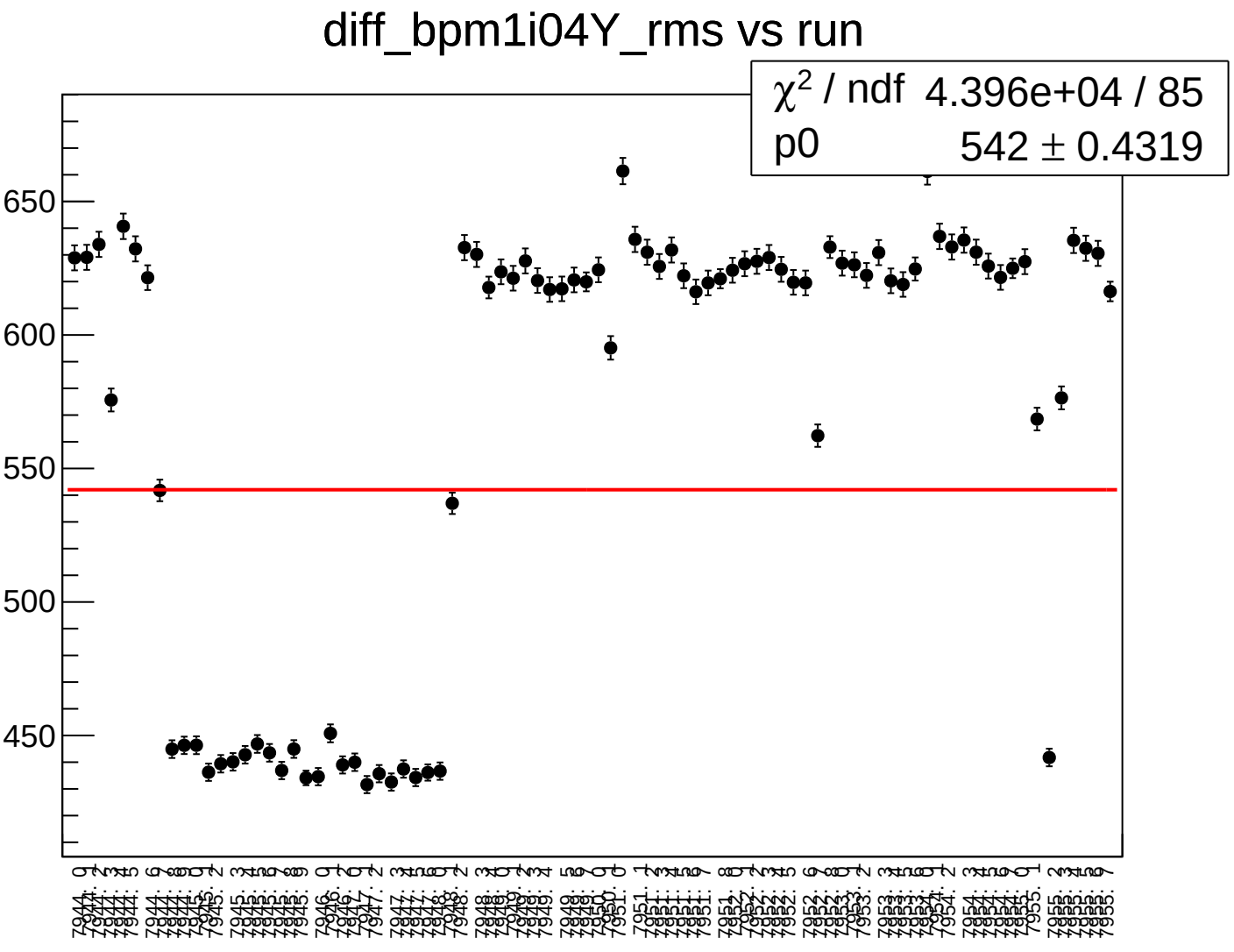

diff_bpm1i04X_mean vs run
χ² / ndf 94.82 / 85
p0 18.9 ± 1.048
pull
Entries 86
Mean 221.1
Std Dev 0

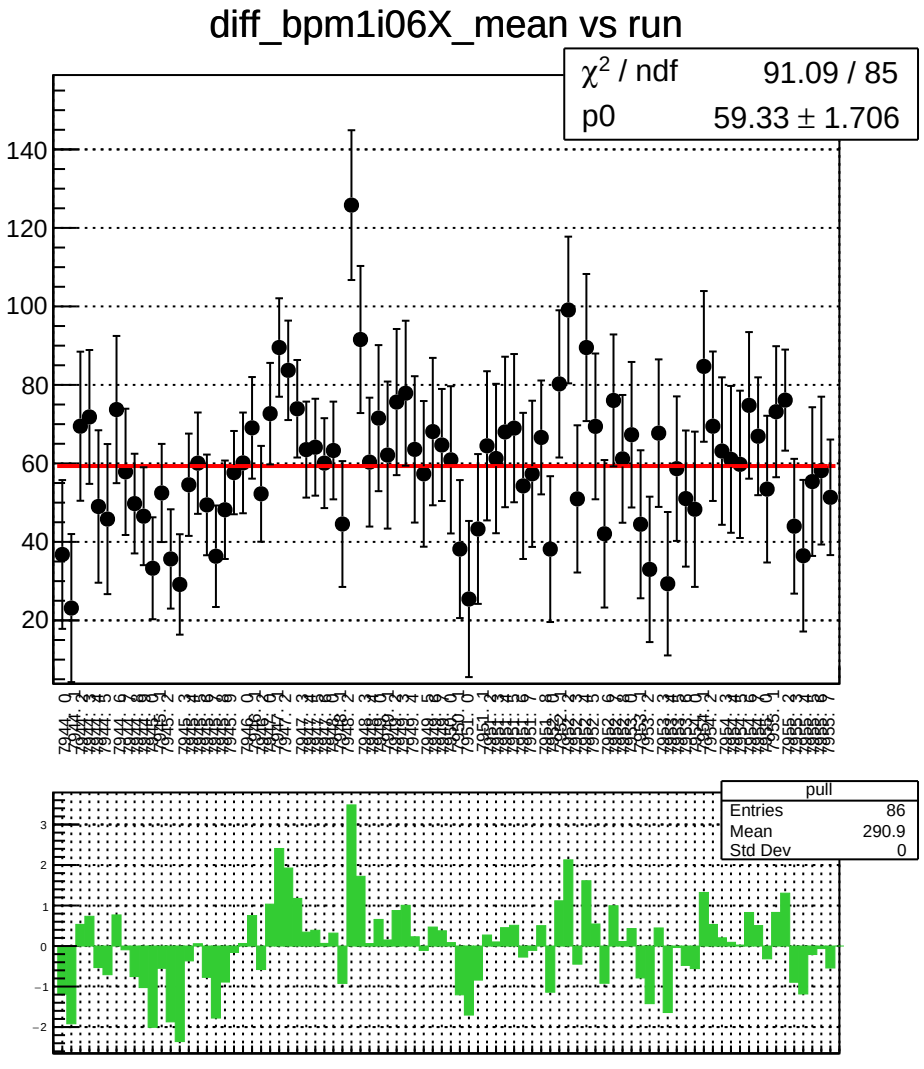

pull1D
Entries 86
Mean 0.004582
Std Dev 1.05

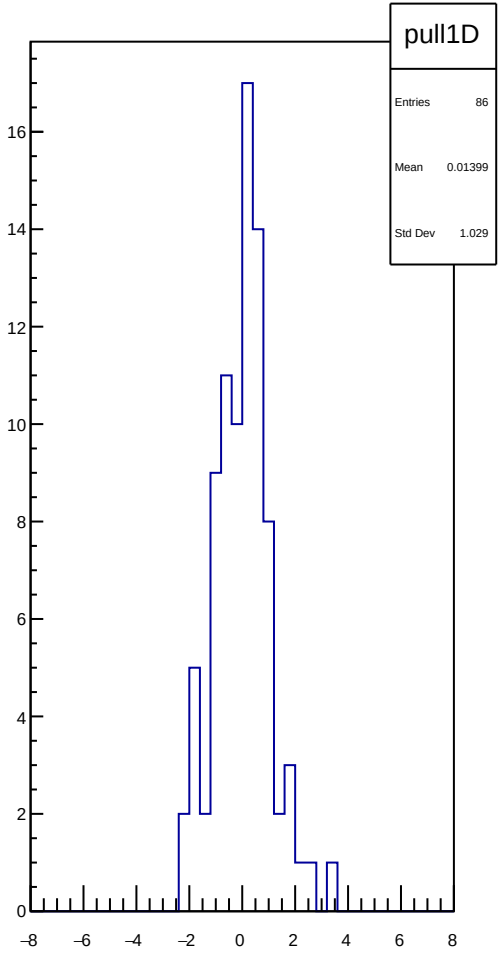

diff_bpm1i04X_rms vs run
χ^2 / ndf 872.6 / 85
p0 942.7 ± 0.741
980
960
940
920
900
880

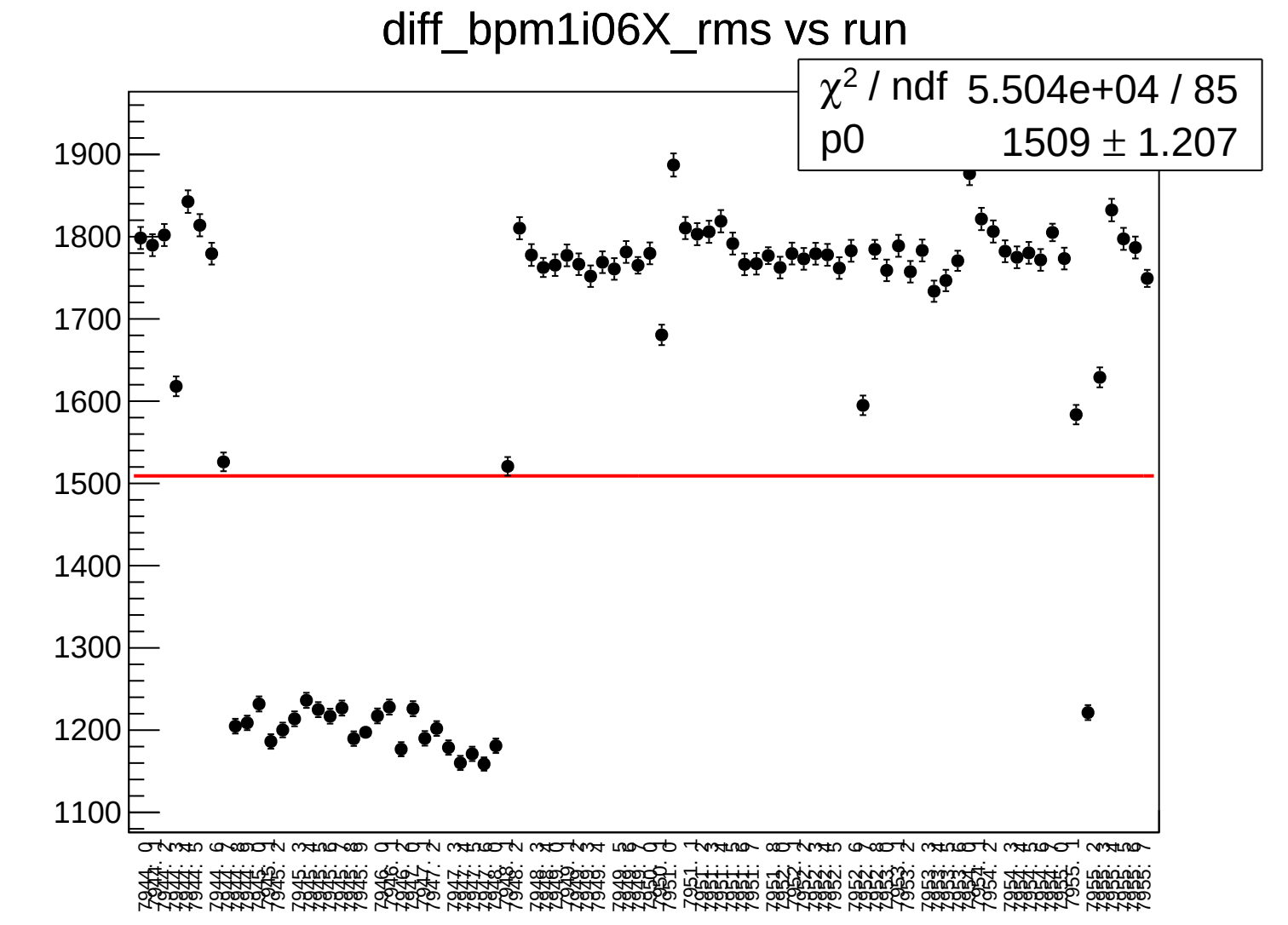

diff_bpm1i04Y_mean vs run
χ² / ndf 81.15 / 85
p0 18.3 ± 0.6108
pull
Entries 86
Mean 73.29
Std Dev 58.95

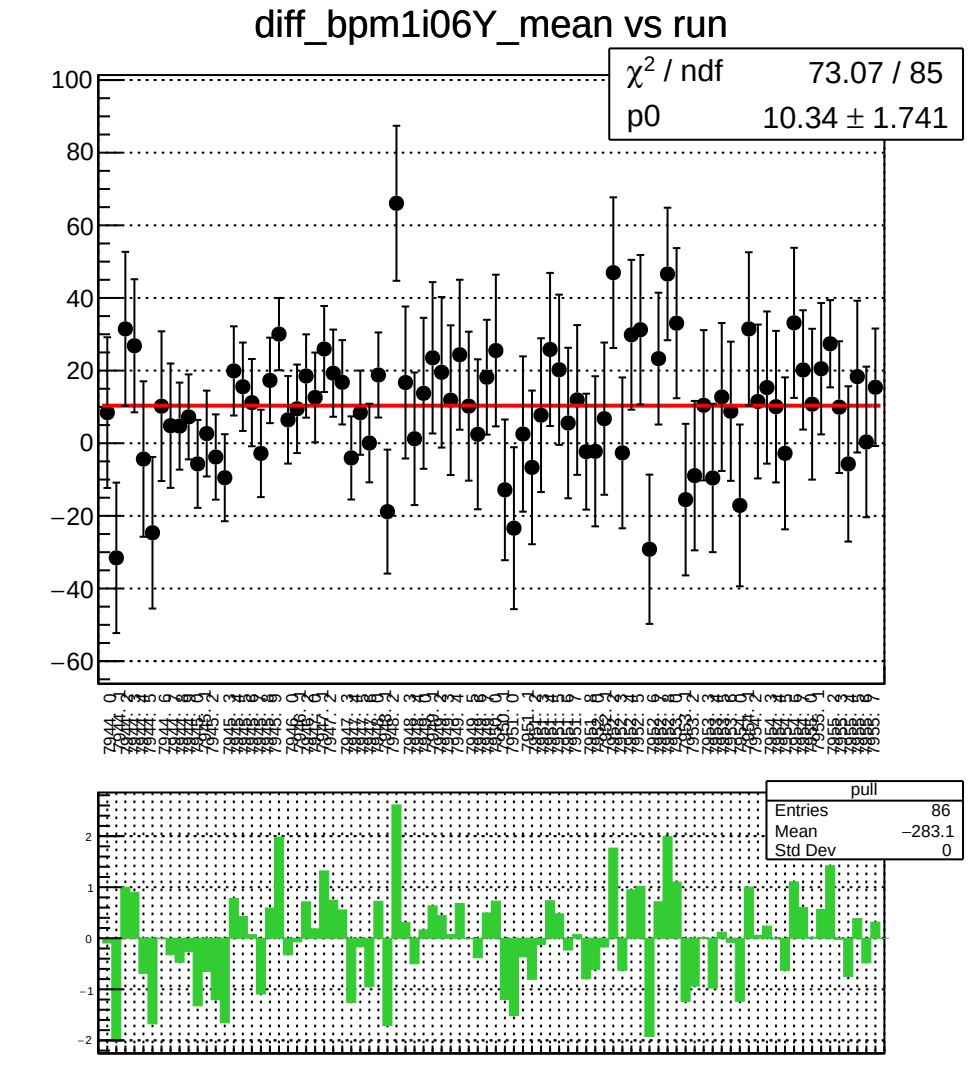

pull1D
Entries 86
Mean −0.0314
Std Dev 0.9709

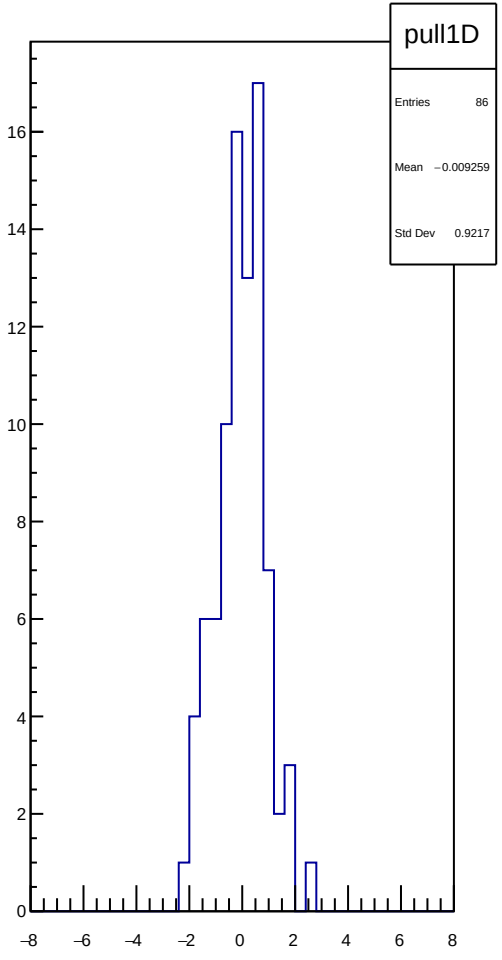

diff_bpm1i04Y_rms vs run
χ² / ndf 4.396e+04 / 85
p0 542 ± 0.4319
650
600
550
500
450

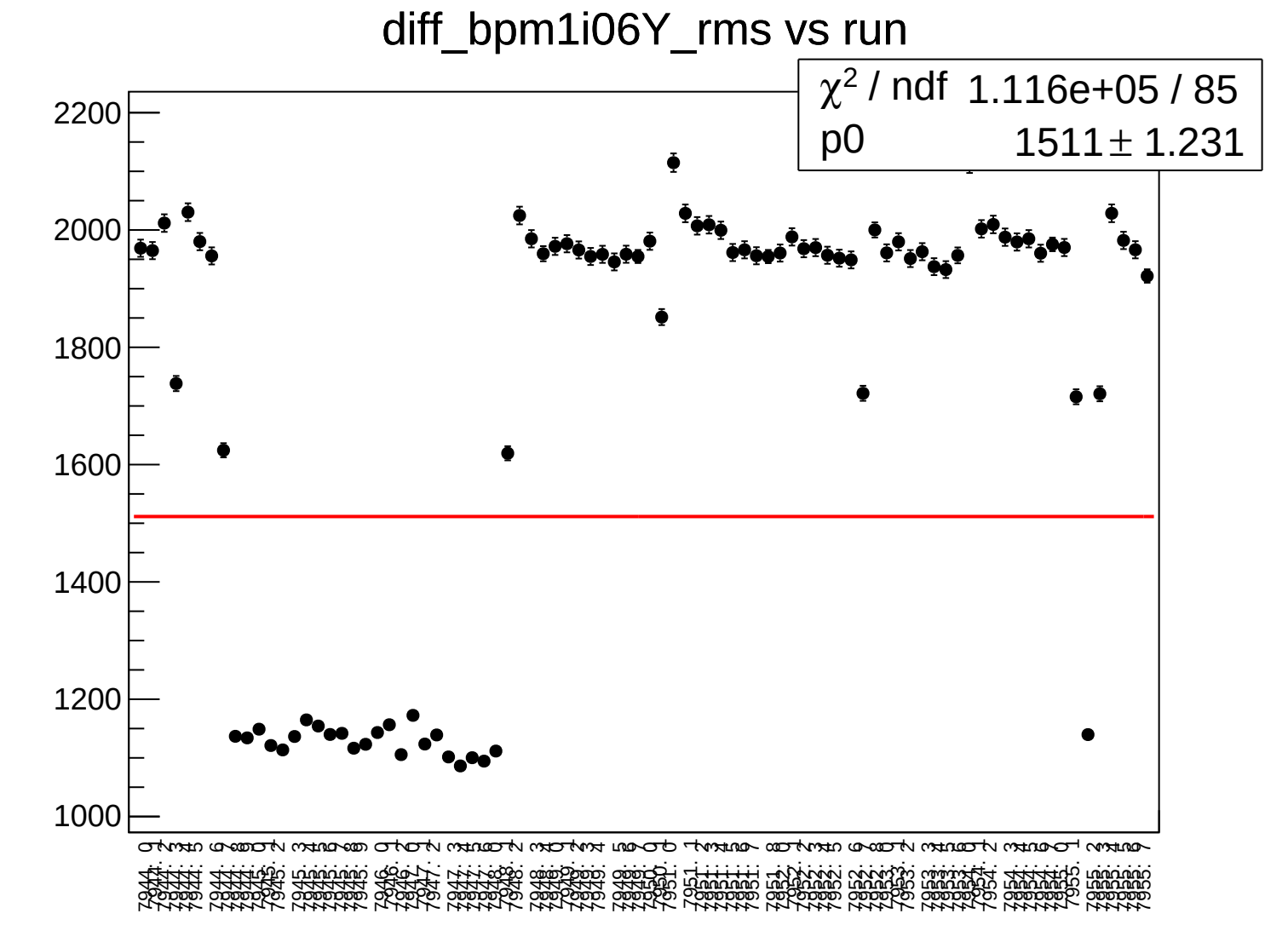

diff_bpm1i06X_mean vs run
χ^2 / ndf 91.09 / 85
p0 59.33 ± 1.706
pull
Entries 86
Mean 290.9
Std Dev 0

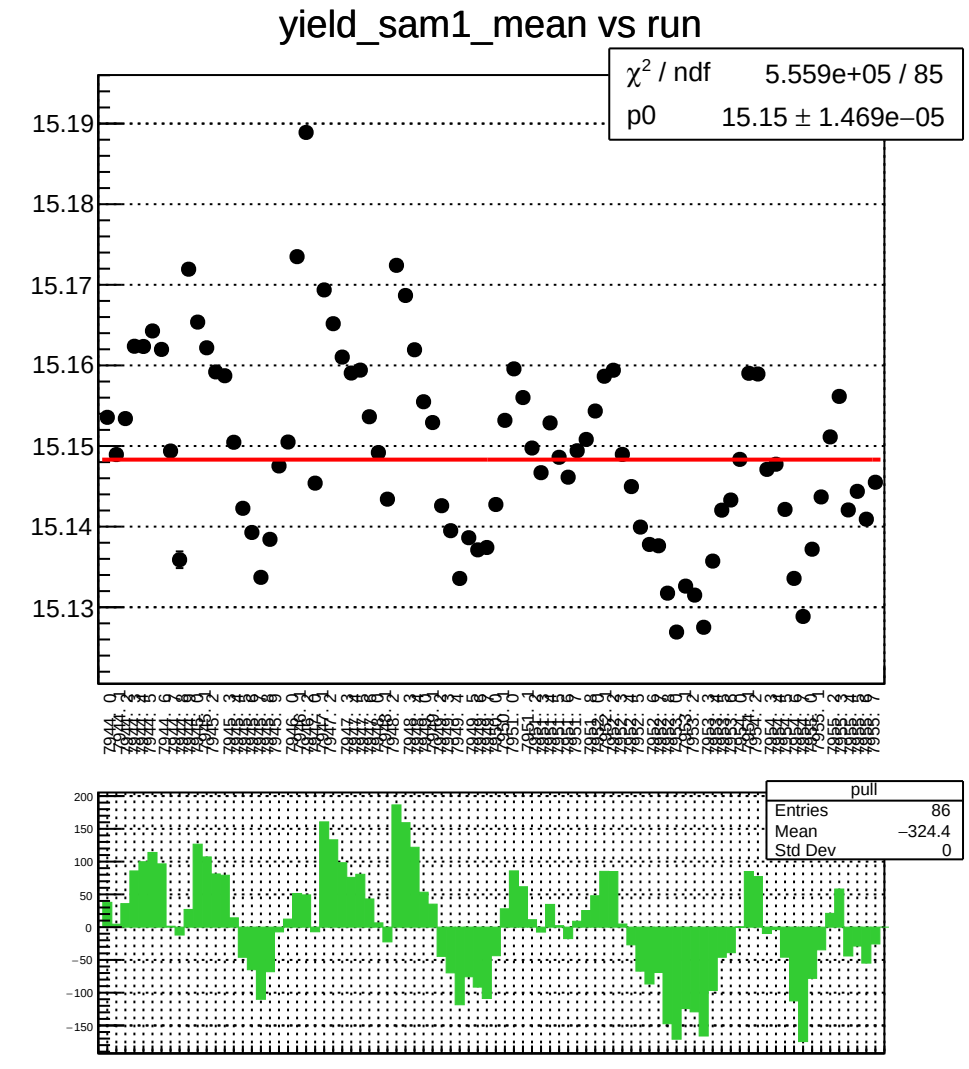

pull1D
Entries 86
Mean 0.01399
Std Dev 1.029

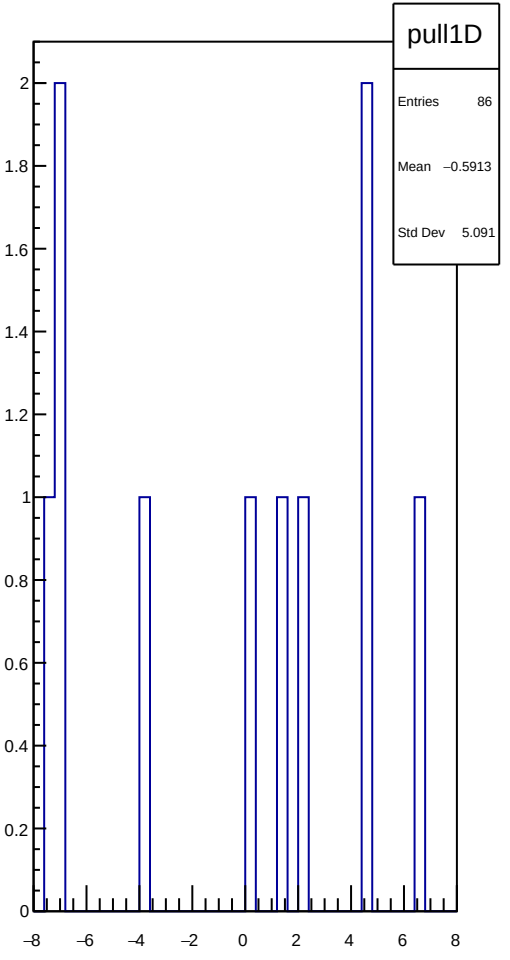

diff_bpm1i06X_rms vs run
χ^2 / ndf 5.504e+04 / 85
p0 1509 ± 1.207
1900
1800
1700
1600
1500
1400
1300
1200
1100

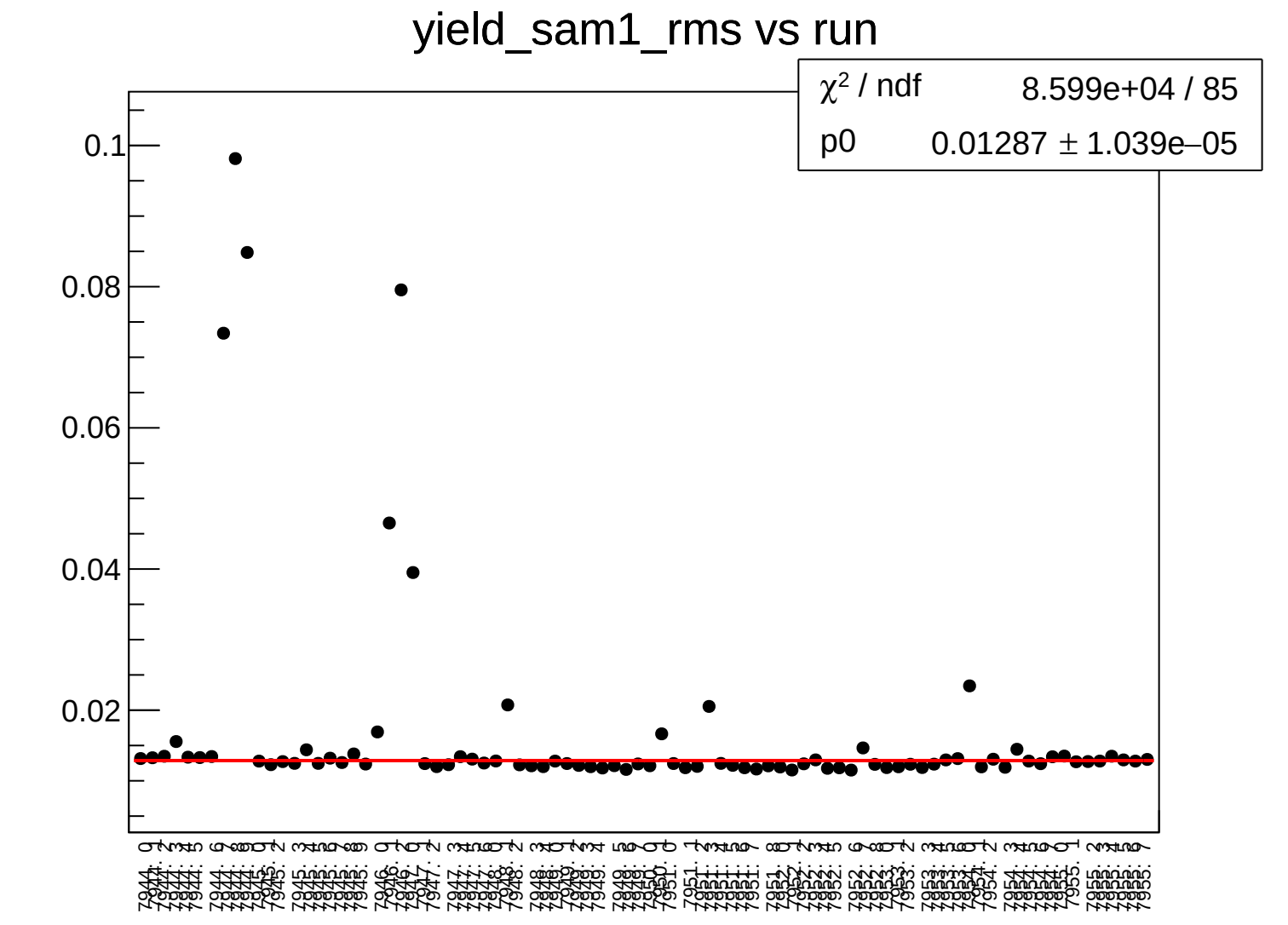

diff_bpm1i06Y_mean vs run
χ² / ndf 73.07 / 85
p0 10.34 ± 1.741
pull
Entries 86
Mean −283.1
Std Dev 0

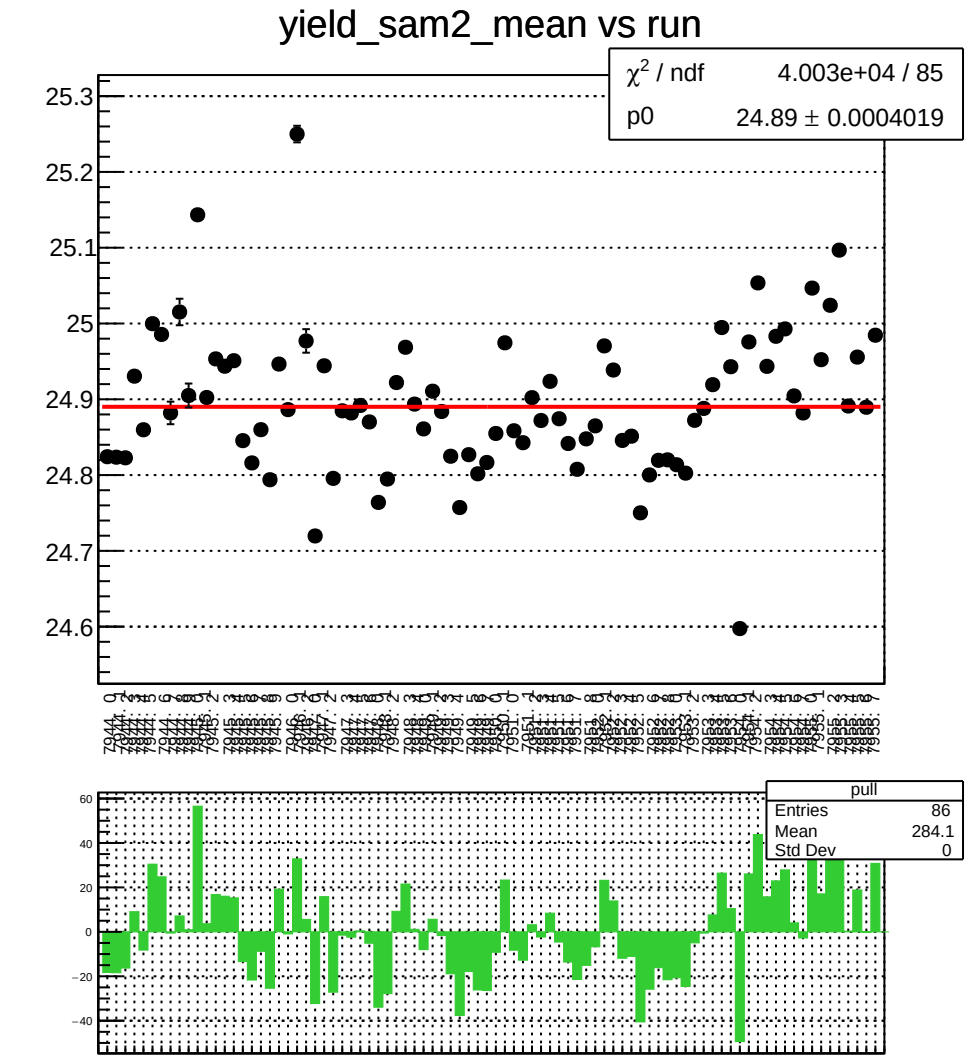

pull1D
Entries 86
Mean −0.009259
Std Dev 0.9217

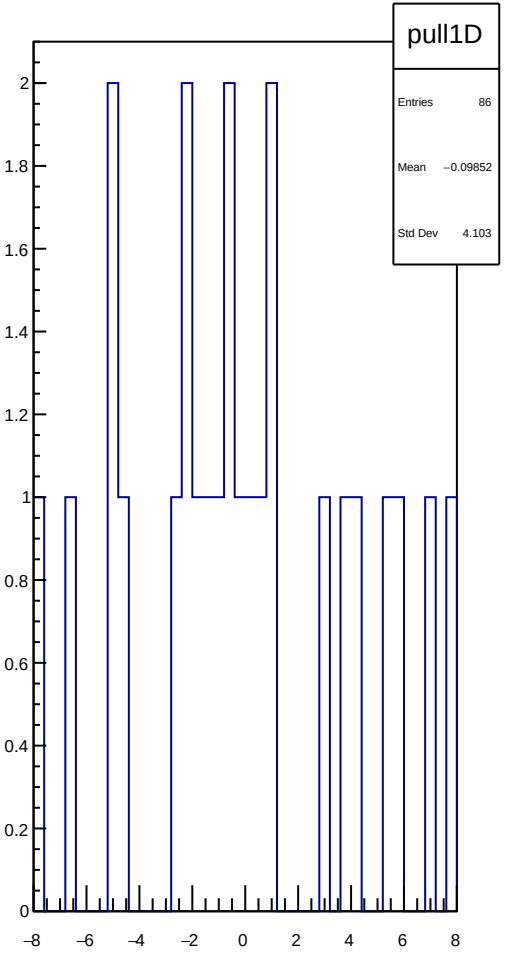

diff_bpm1i06Y_rms vs run
χ² / ndf 1.116e+05 / 85
p0 1511 ± 1.231
2200
2000
1800
1600
1400
1200
1000

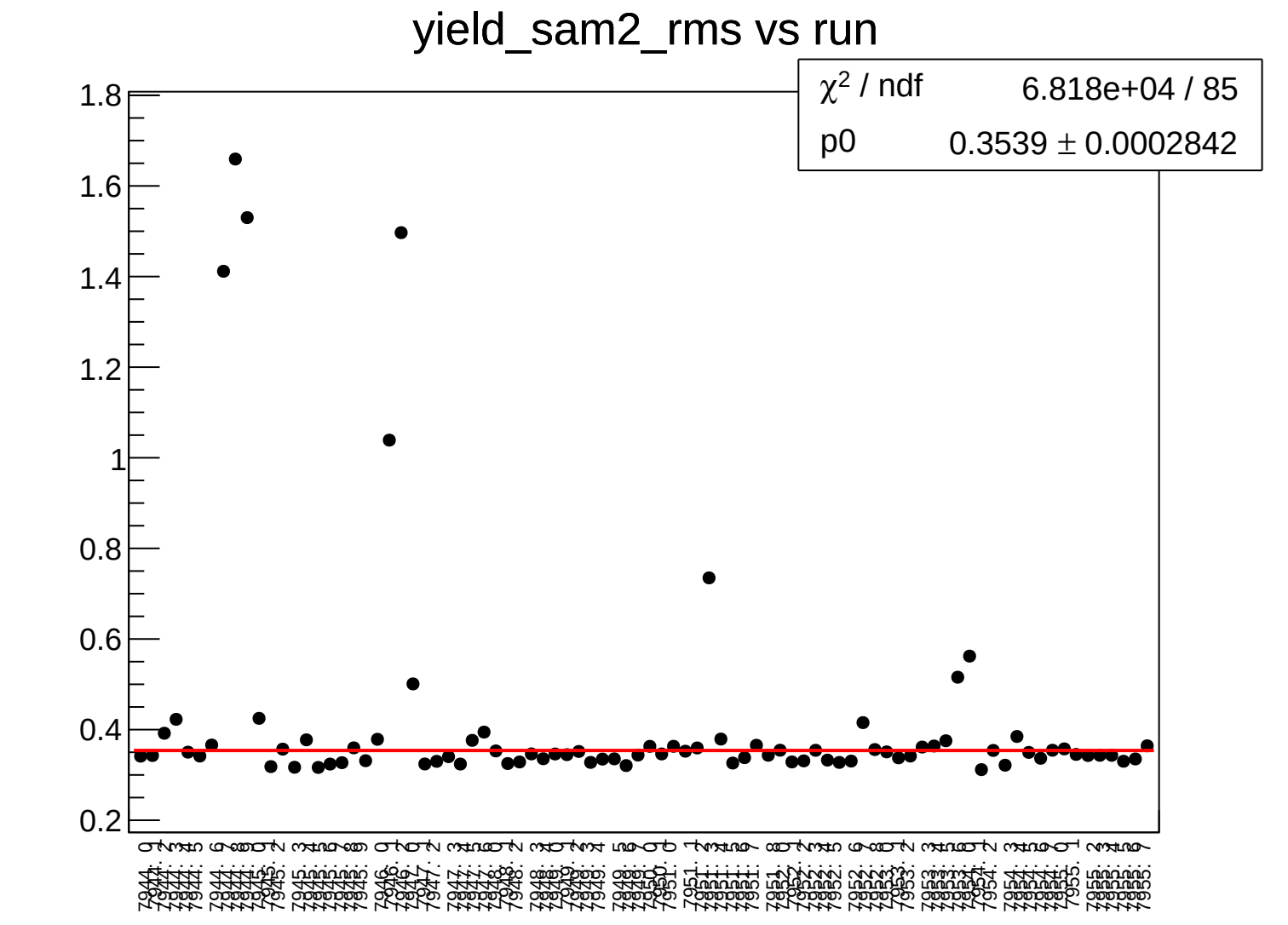

yield_sam1_mean vs run
χ² / ndf 5.559e+05 / 85
p0 15.15 ± 1.469e−05
15.19
15.18
15.17
15.16
15.15
15.14
15.13
pull
Entries 86
Mean −324.4
Std Dev 0
200
150
100
50
0
−50
−100
−150

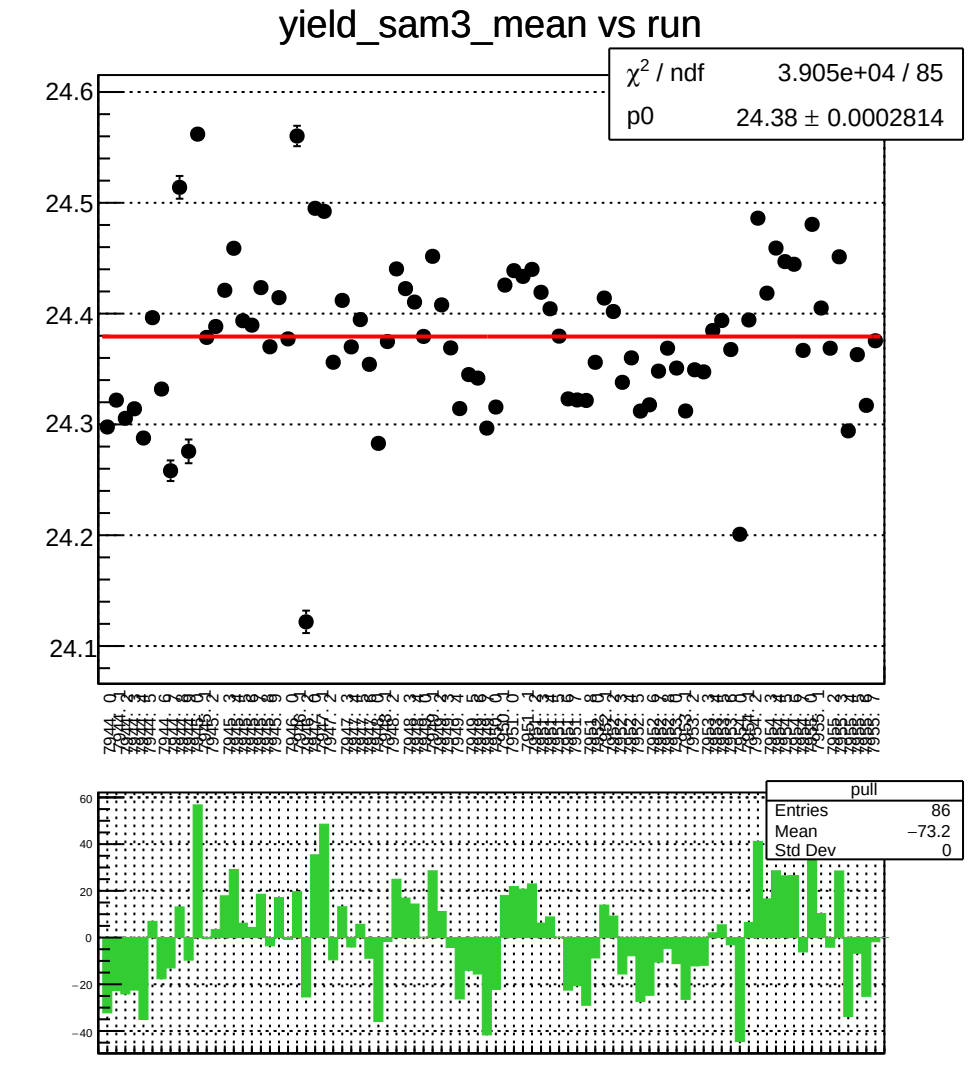

pull1D
Entries 86
Mean −0.5913
Std Dev 5.091
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

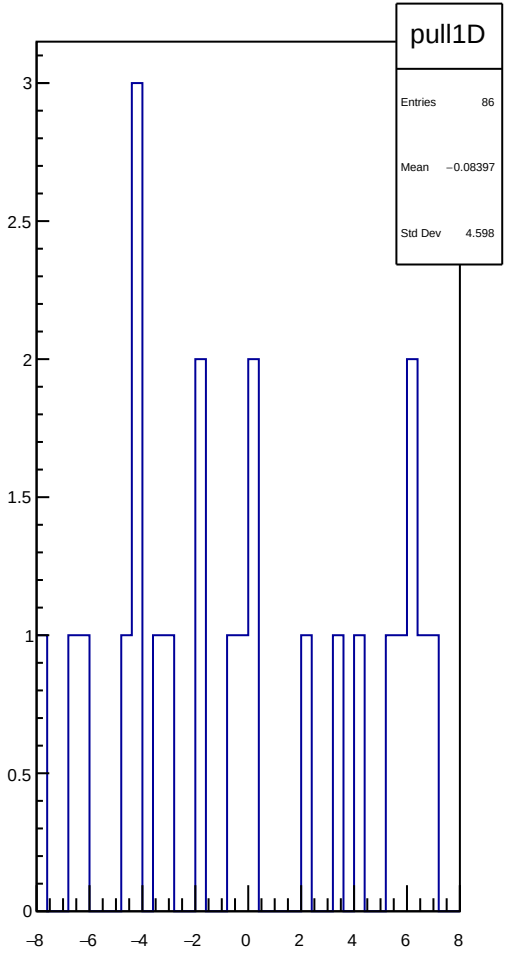

yield_sam1_rms vs run
χ² / ndf 8.599e+04 / 85
p0 0.01287 ± 1.039e−05
0.1
0.08
0.06
0.04
0.02

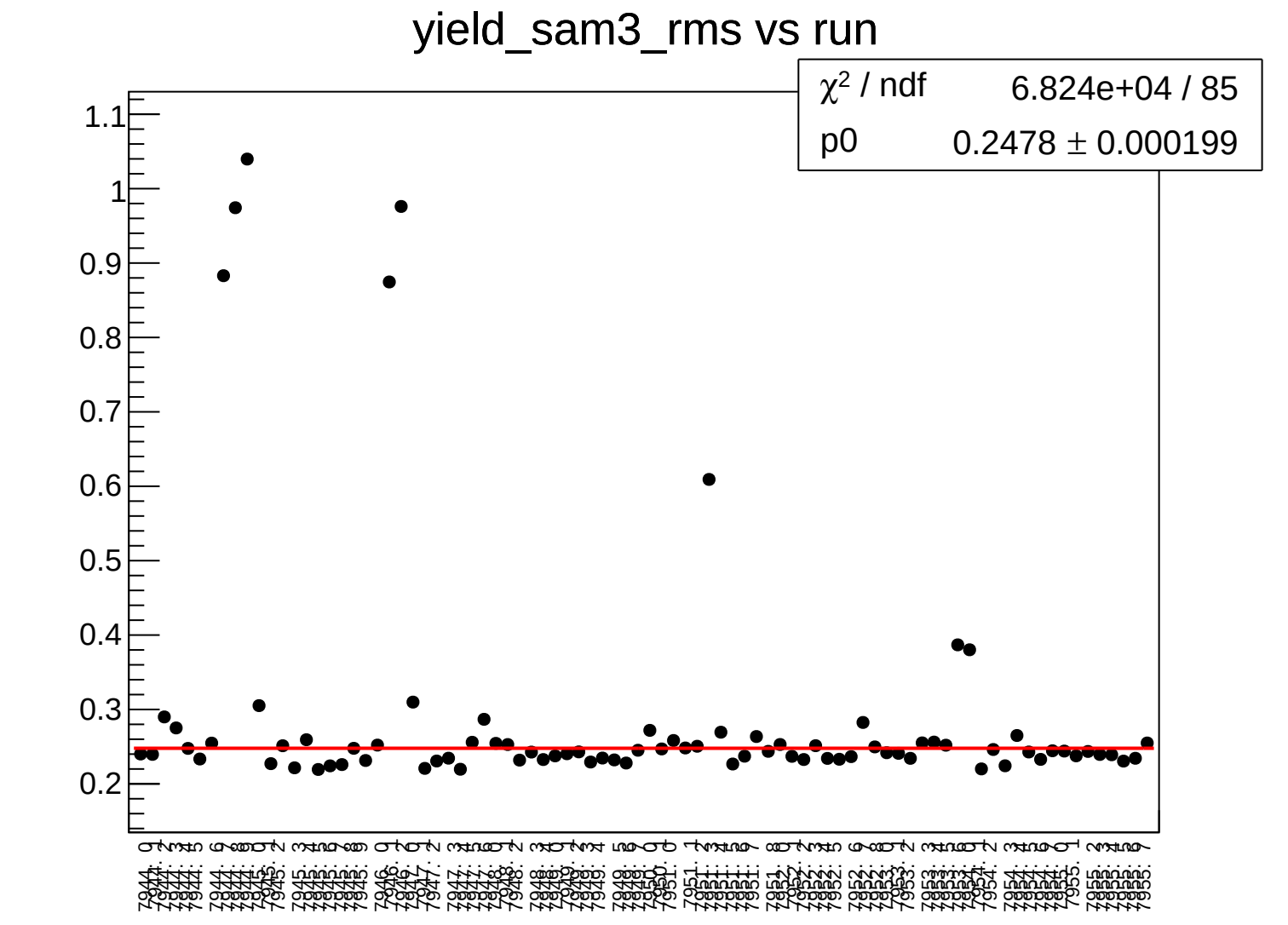

yield_sam2_mean vs run
χ² / ndf 4.003e+04 / 85
p0 24.89 ± 0.0004019
25.3
25.2
25.1
25
24.9
24.8
24.7
24.6
pull
Entries 86
Mean 284.1
Std Dev 0
60
40
20
0
−20
−40

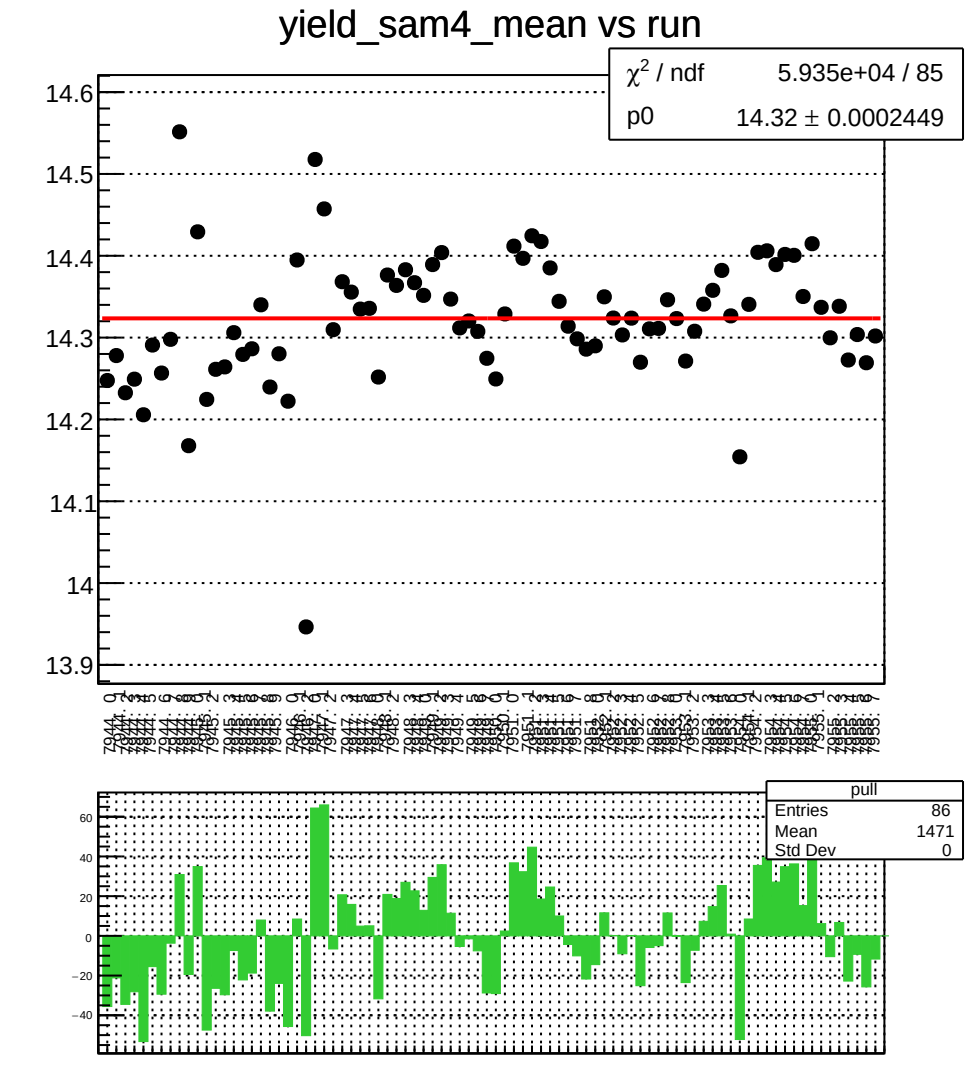

pull1D
Entries 86
Mean −0.09852
Std Dev 4.103
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

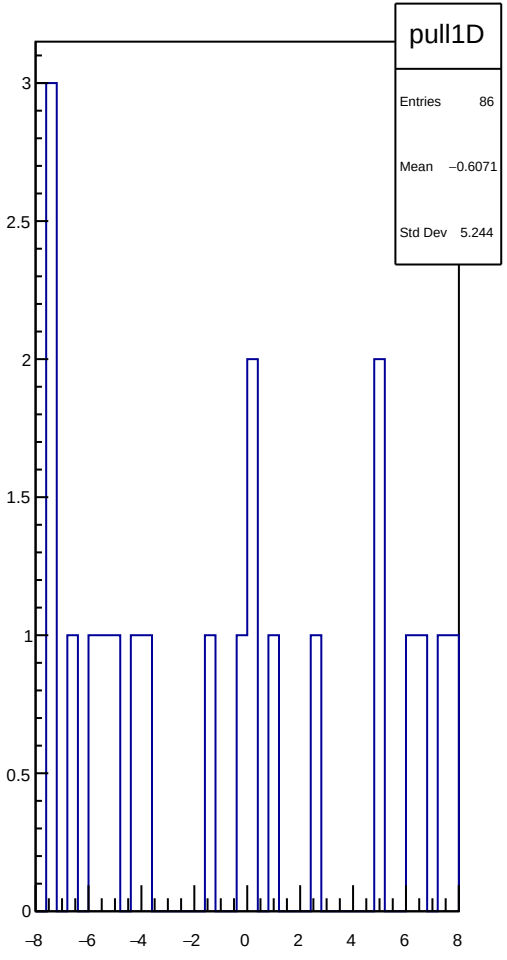

yield_sam2_rms vs run
χ² / ndf 6.818e+04 / 85
p0 0.3539 ± 0.0002842
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

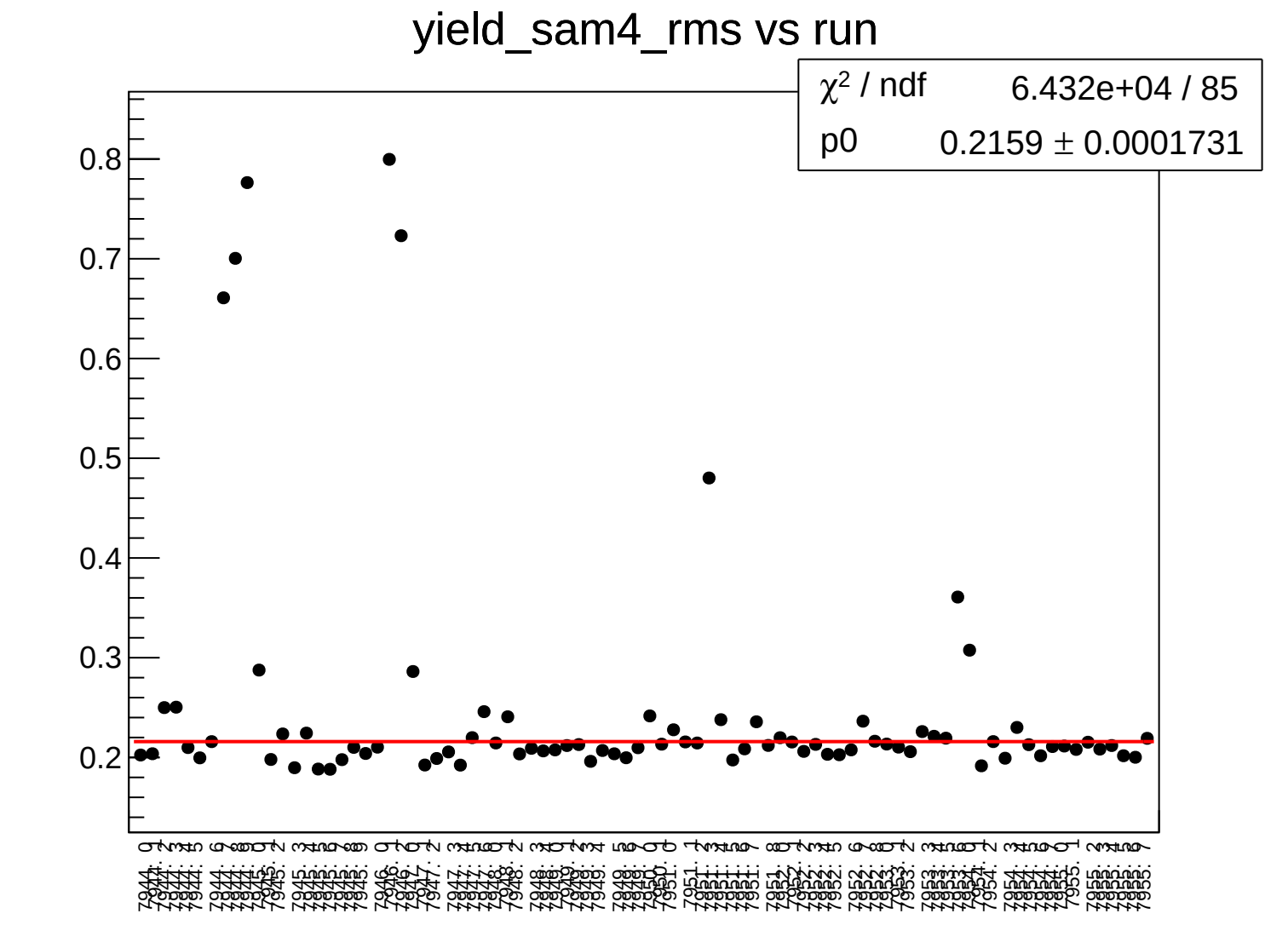

yield_sam3_mean vs run
χ² / ndf 3.905e+04 / 85
p0 24.38 ± 0.0002814
24.6
24.5
24.4
24.3
24.2
24.1
pull
Entries 86
Mean −73.2
Std Dev 0
60
40
20
0
−20
−40

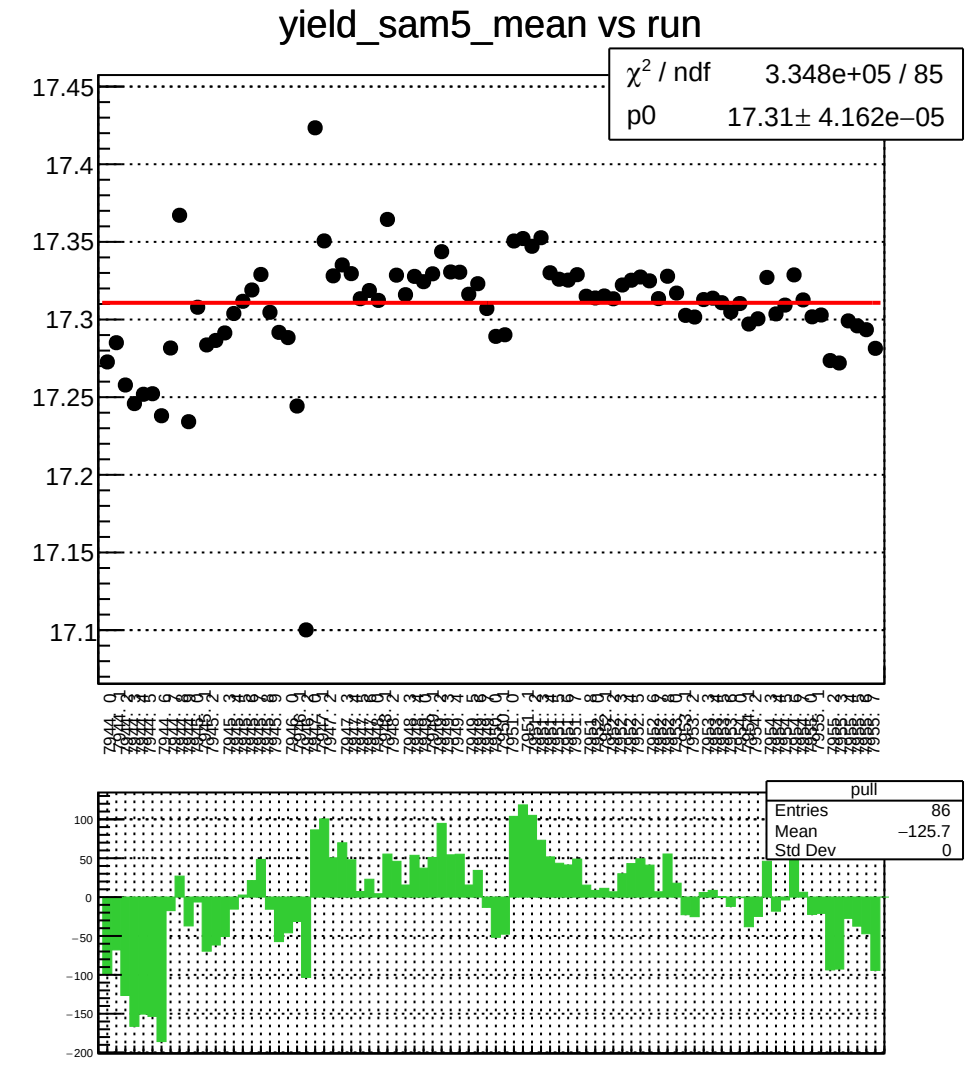

pull1D
Entries 86
Mean −0.08397
Std Dev 4.598
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

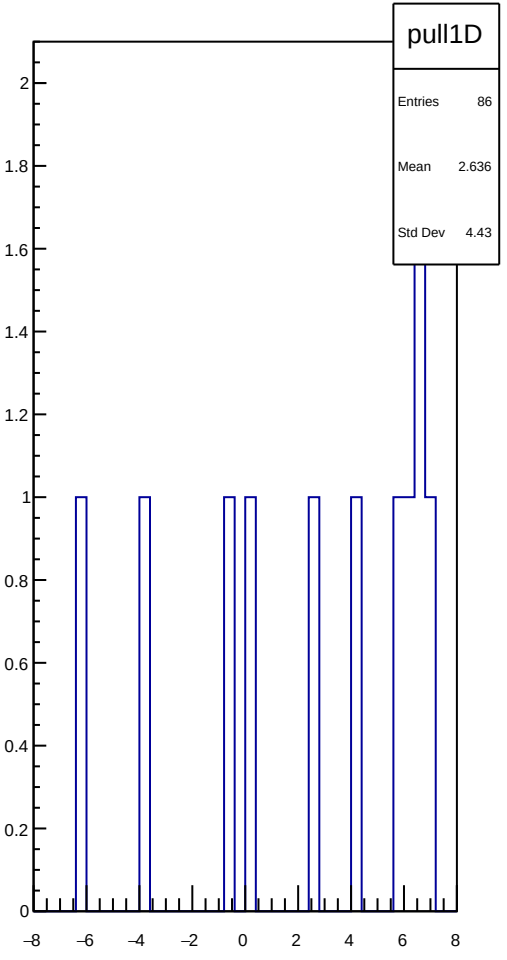

yield_sam3_rms vs run
χ² / ndf 6.824e+04 / 85
p0 0.2478 ± 0.000199
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

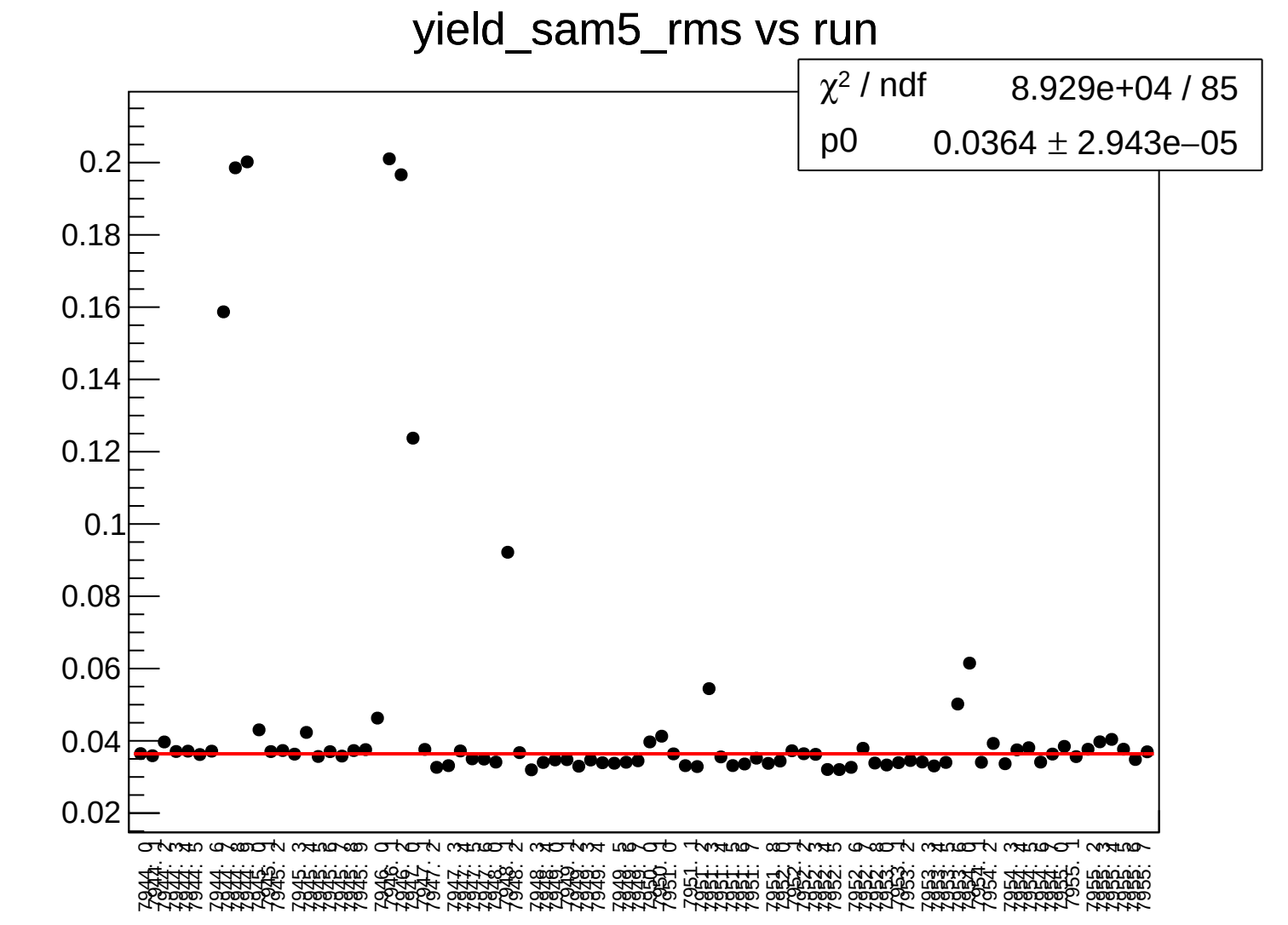

yield_sam4_mean vs run
χ² / ndf 5.935e+04 / 85
p0 14.32 ± 0.0002449
14.6
14.5
14.4
14.3
14.2
14.1
14
13.9
pull
Entries 86
Mean 1471
Std Dev 0
60
40
20
0
−20
−40

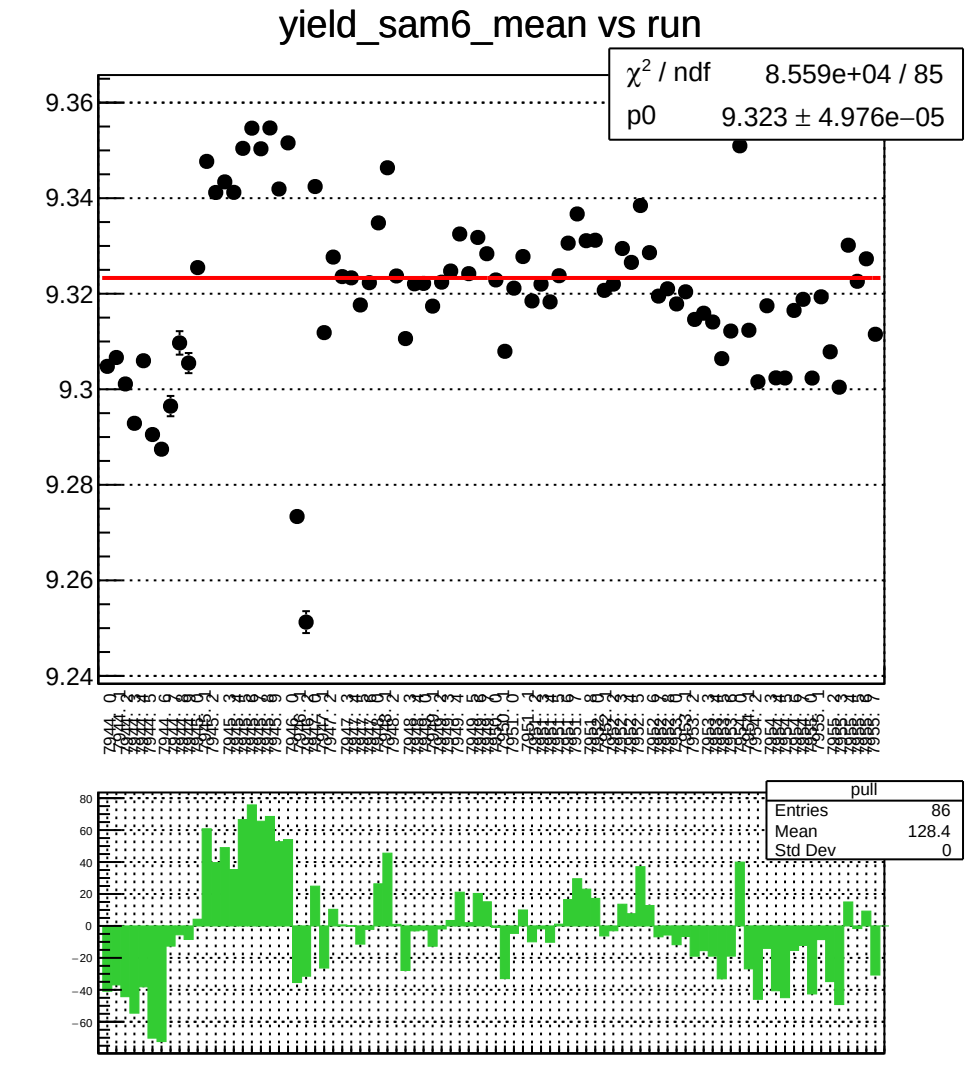

pull1D
Entries 86
Mean −0.6071
Std Dev 5.244
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

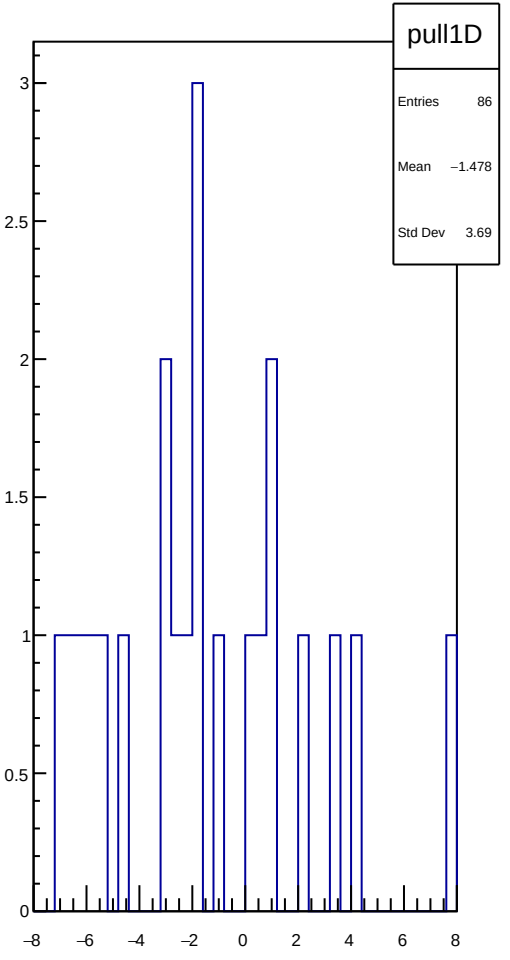

yield_sam4_rms vs run
χ² / ndf 6.432e+04 / 85
p0 0.2159 ± 0.0001731
0.8
0.7
0.6
0.5
0.4
0.3
0.2

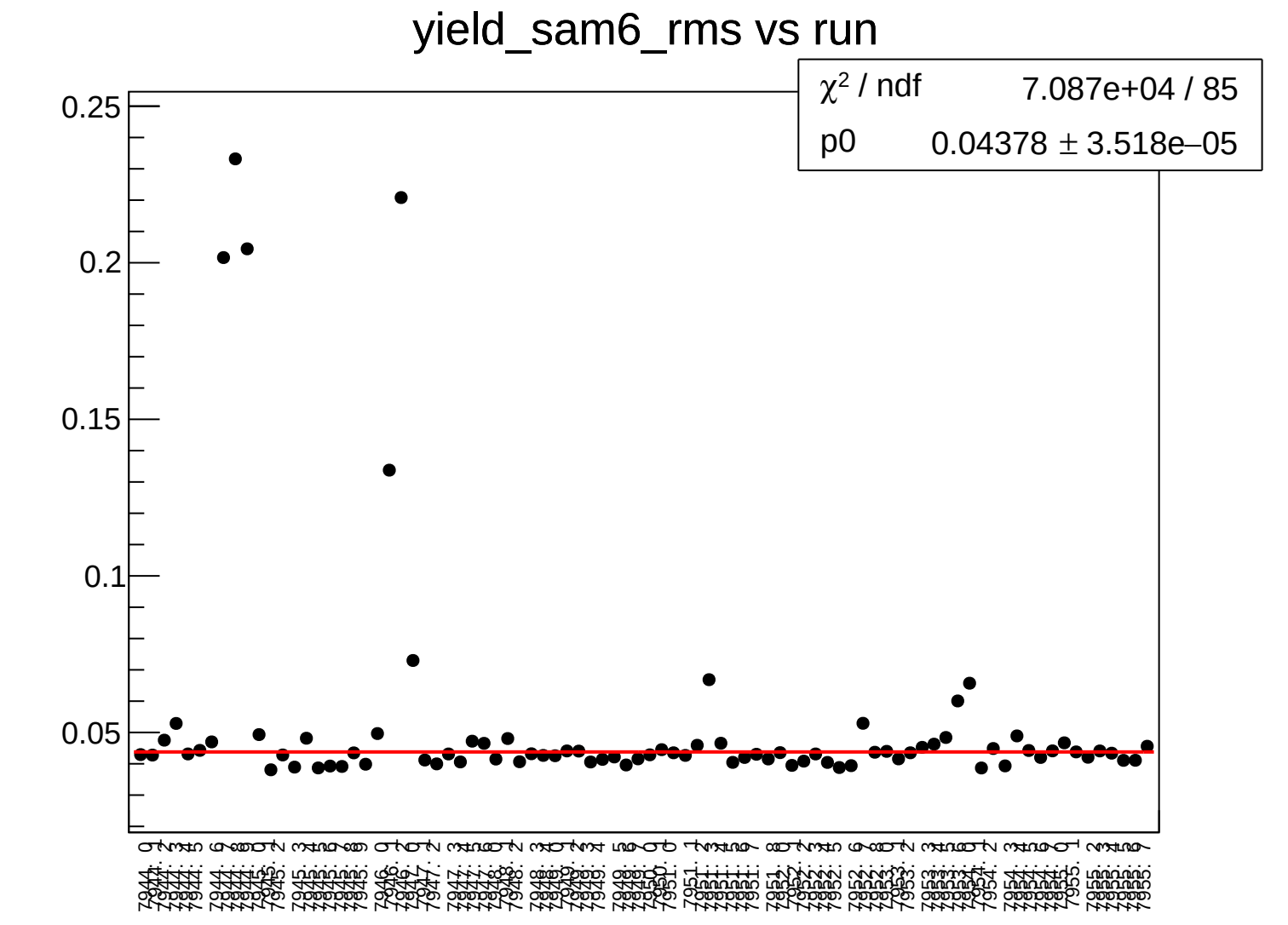

yield_sam5_mean vs run
χ² / ndf 3.348e+05 / 85
p0 17.31± 4.162e−05
17.45
17.4
17.35
17.3
17.25
17.2
17.15
17.1
pull
Entries 86
Mean −125.7
Std Dev 0
100
50
0
−50
−100
−150
−200

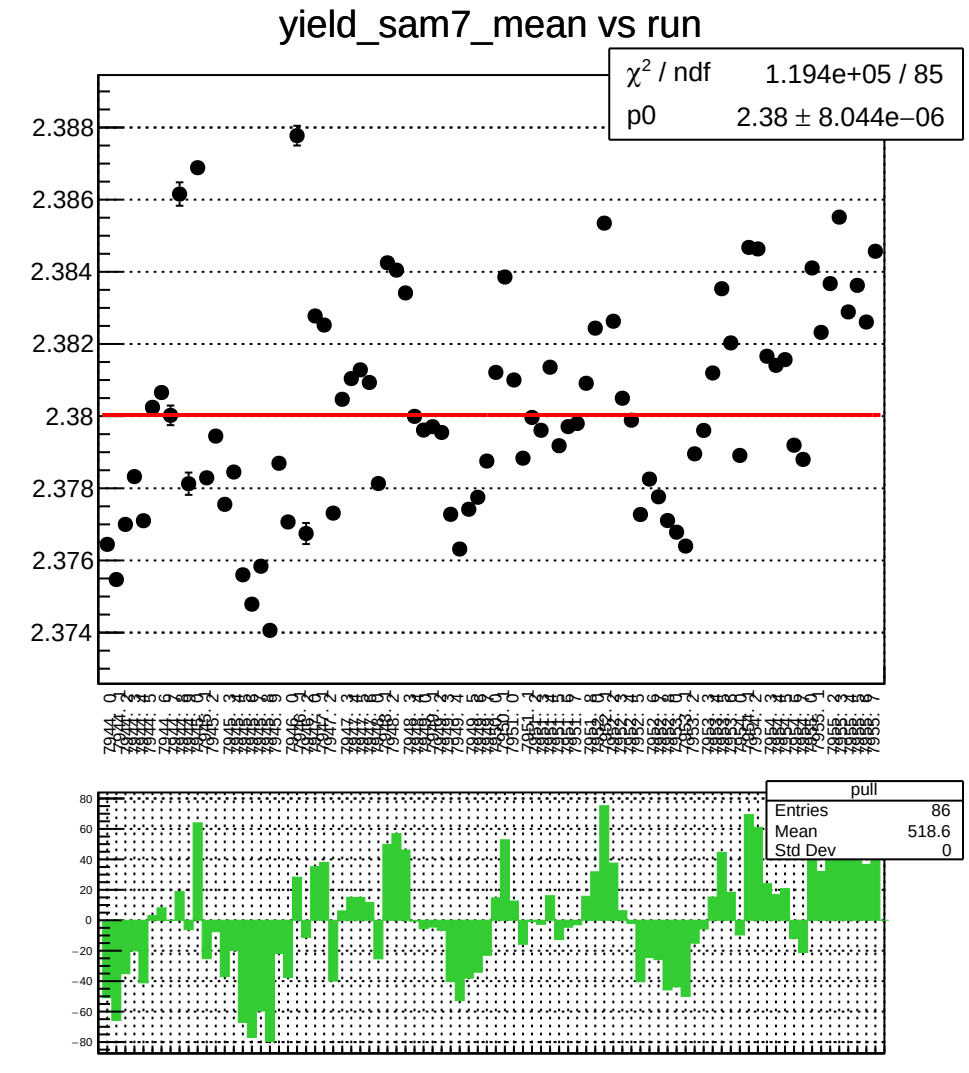

pull1D
Entries 86
Mean 2.636
Std Dev 4.43
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

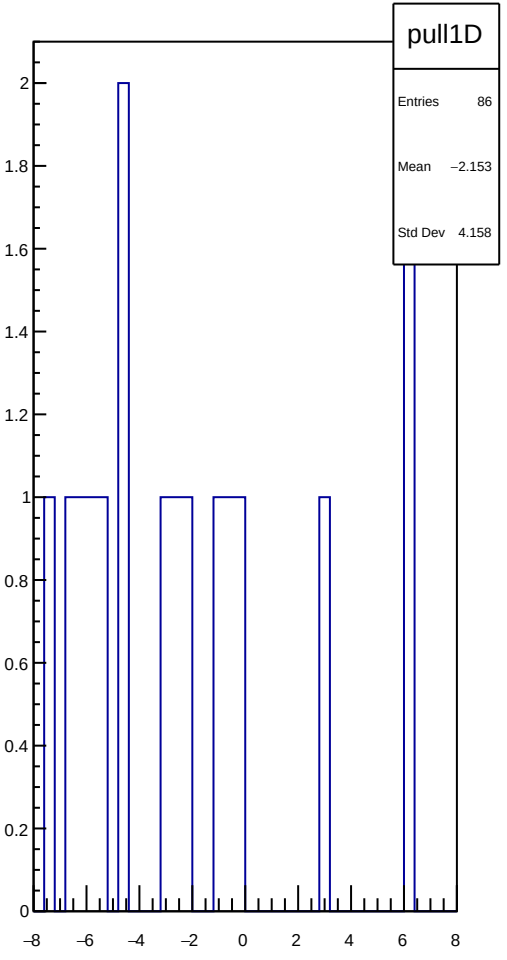

yield_sam5_rms vs run
χ² / ndf 8.929e+04 / 85
p0 0.0364 ± 2.943e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

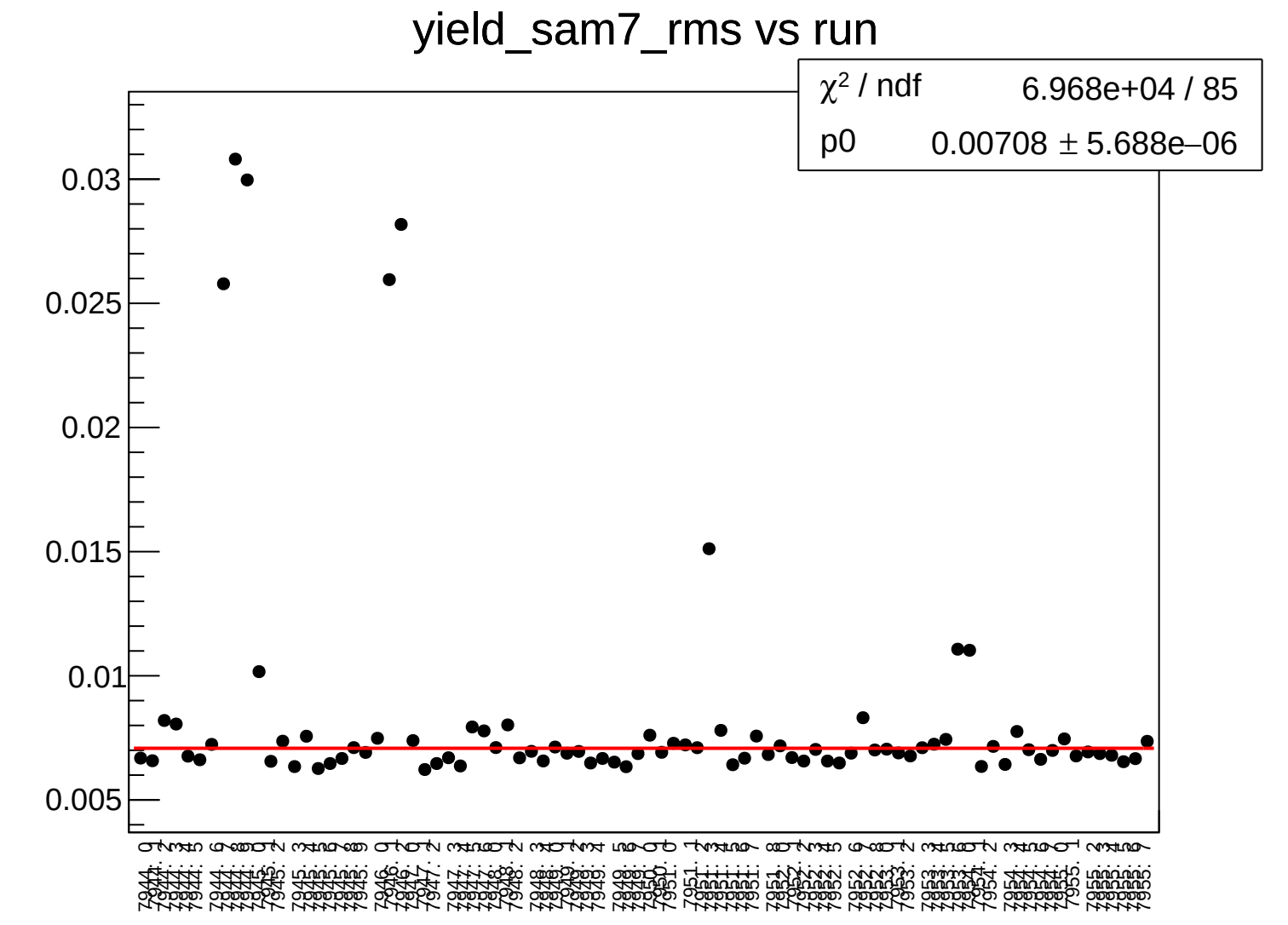

yield_sam6_mean vs run
χ² / ndf 8.559e+04 / 85
p0 9.323 ± 4.976e−05
9.36
9.34
9.32
9.3
9.28
9.26
9.24
pull
Entries 86
Mean 128.4
Std Dev 0
80
60
40
20
0
−20
−40
−60

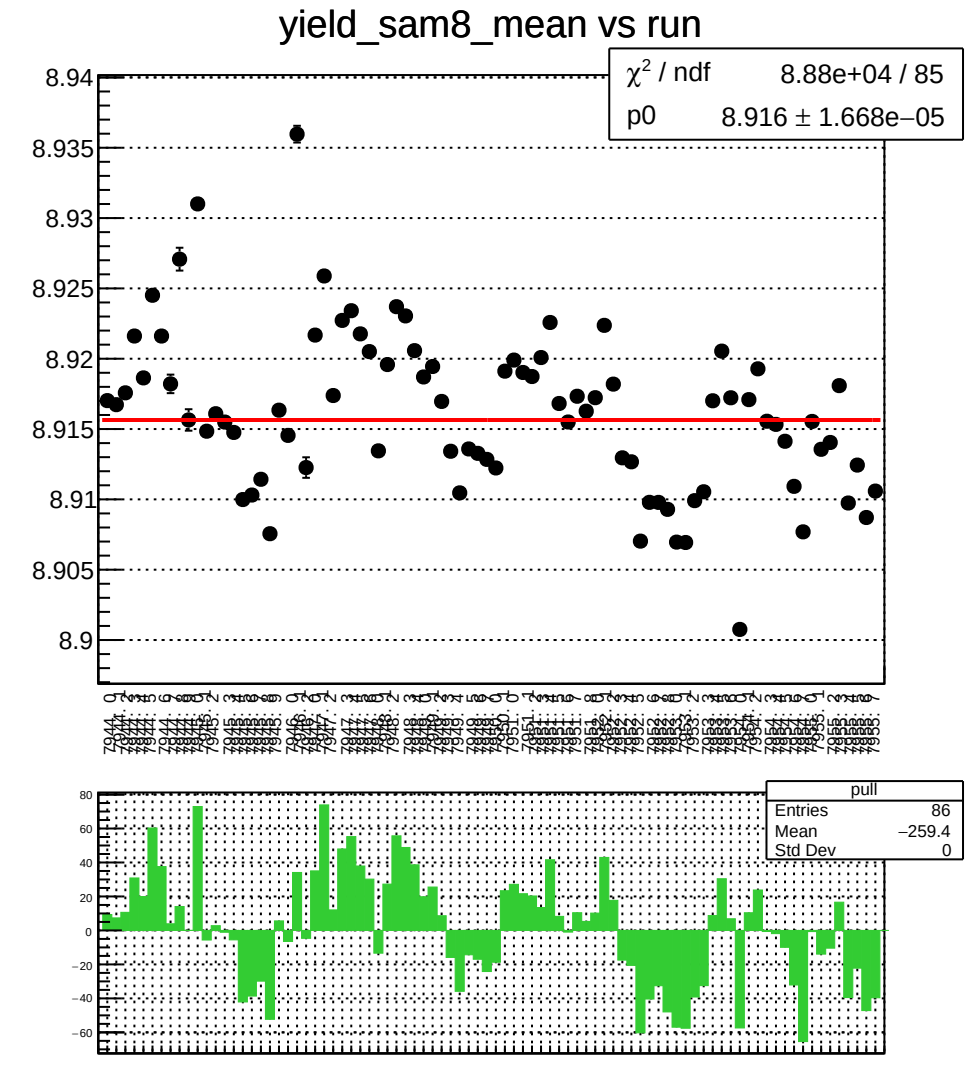

pull1D
Entries 86
Mean −1.478
Std Dev 3.69
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

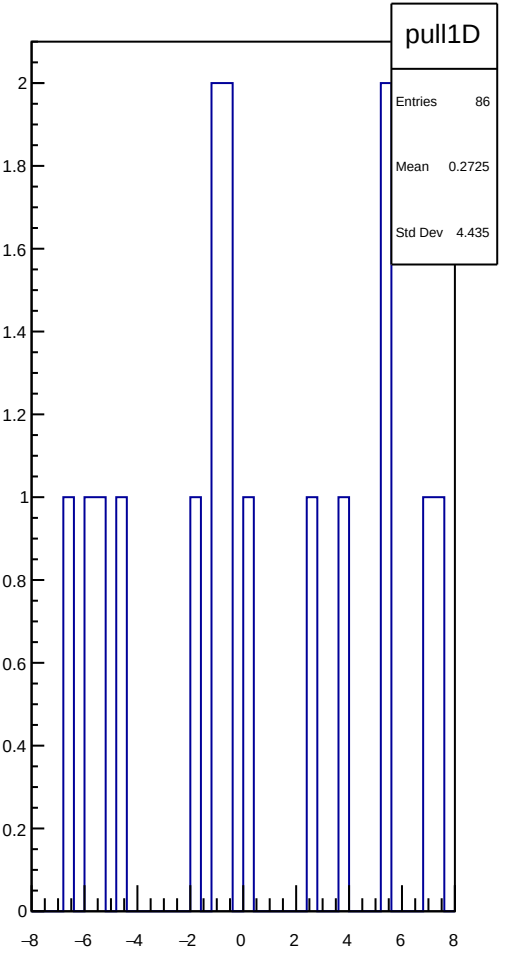

yield_sam6_rms vs run
χ² / ndf 7.087e+04 / 85
p0 0.04378 ± 3.518e–05
0.25
0.2
0.15
0.1
0.05

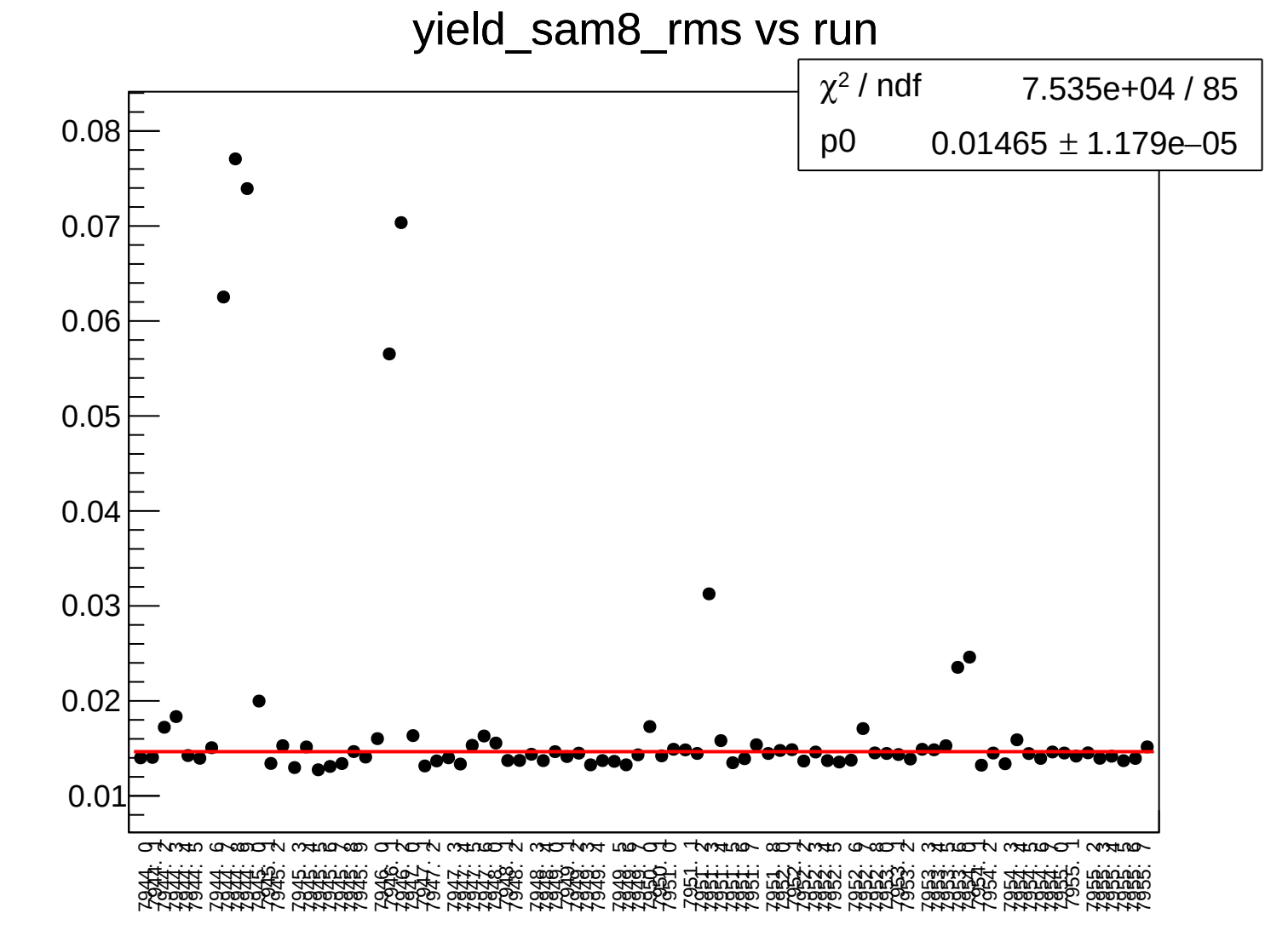

yield_sam7_mean vs run
χ² / ndf 1.194e+05 / 85
p0 2.38 ± 8.044e−06
2.388
2.386
2.384
2.382
2.38
2.378
2.376
2.374
pull
Entries 86
Mean 518.6
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

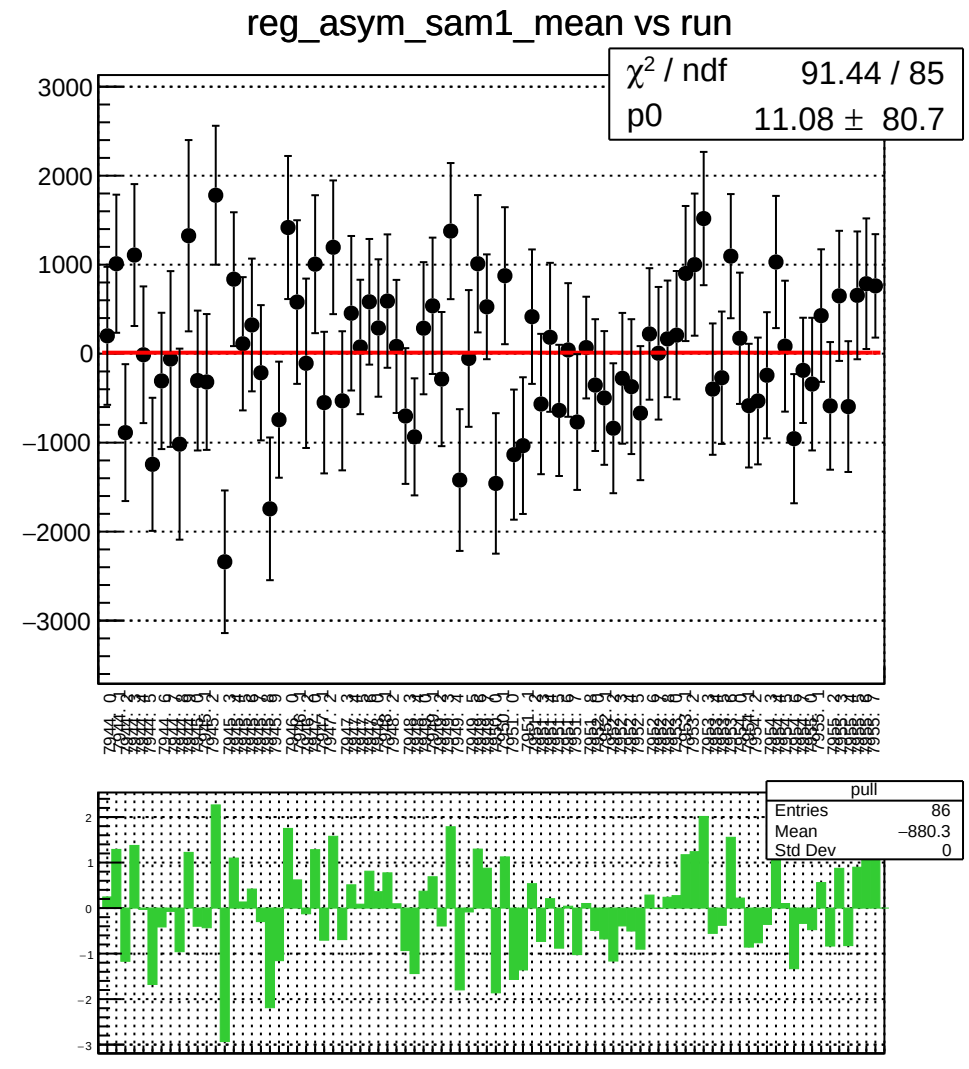

pull1D
Entries 86
Mean −2.153
Std Dev 4.158
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

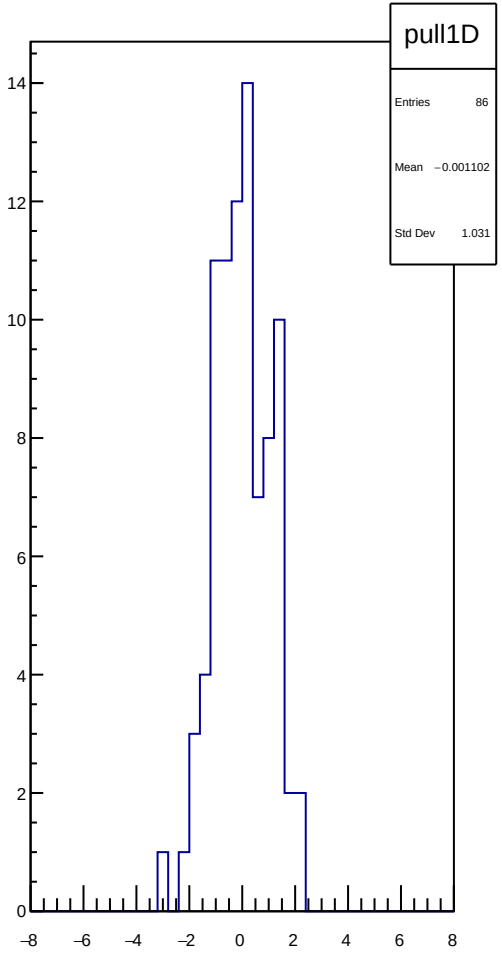

yield_sam7_rms vs run
χ² / ndf 6.968e+04 / 85
p0 0.00708 ± 5.688e–06
0.03
0.025
0.02
0.015
0.01
0.005

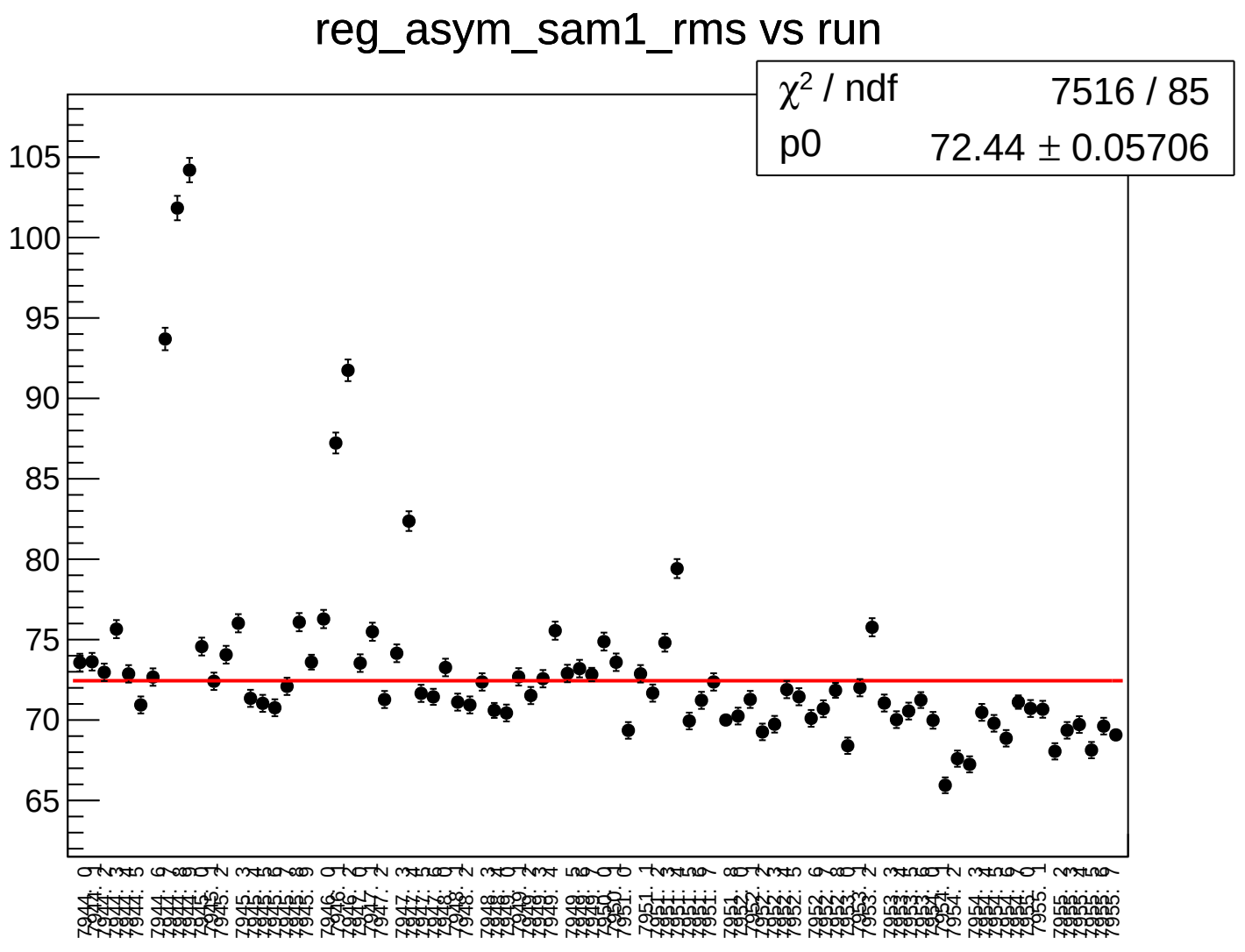

yield_sam8_mean vs run
χ² / ndf 8.88e+04 / 85
p0 8.916 ± 1.668e−05
8.94
8.935
8.93
8.925
8.92
8.915
8.91
8.905
8.9
pull
Entries 86
Mean −259.4
Std Dev 0
80
60
40
20
0
−20
−40
−60

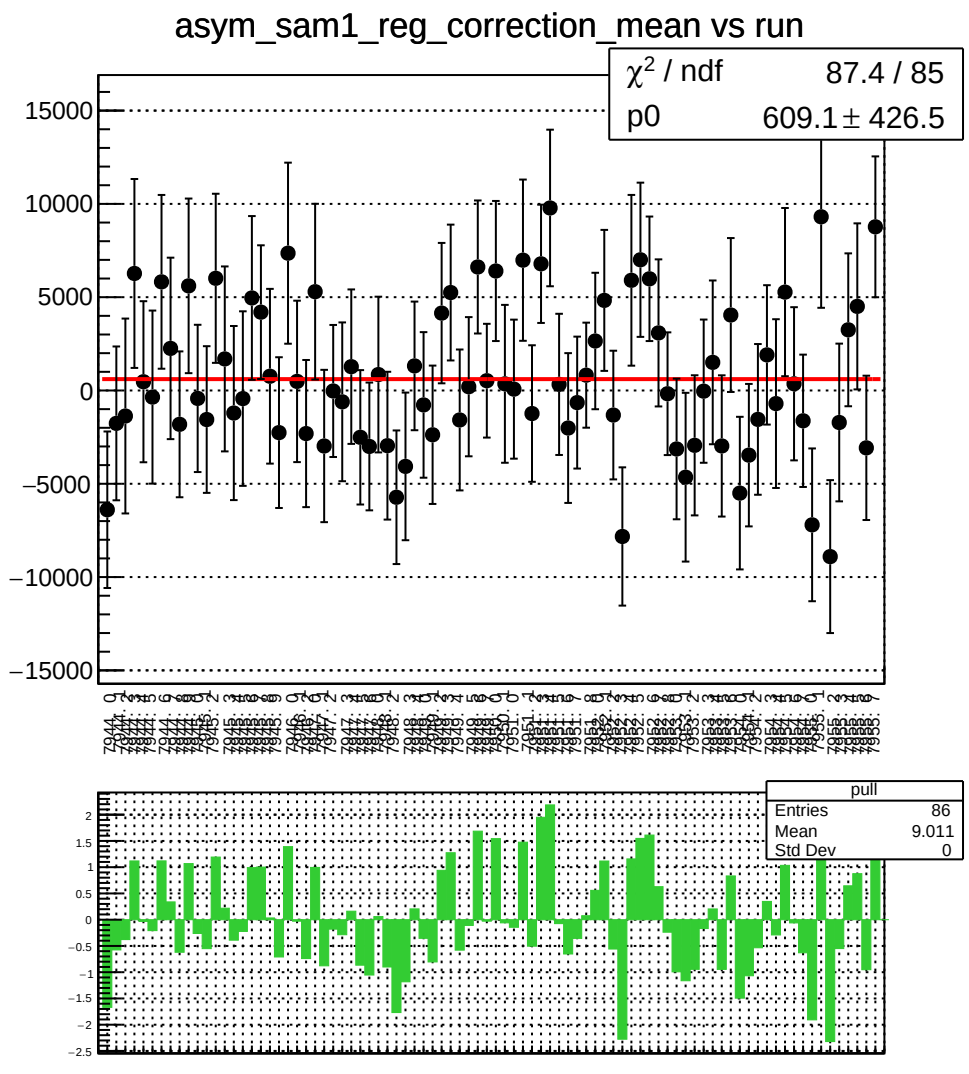

pull1D
Entries 86
Mean 0.2725
Std Dev 4.435
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

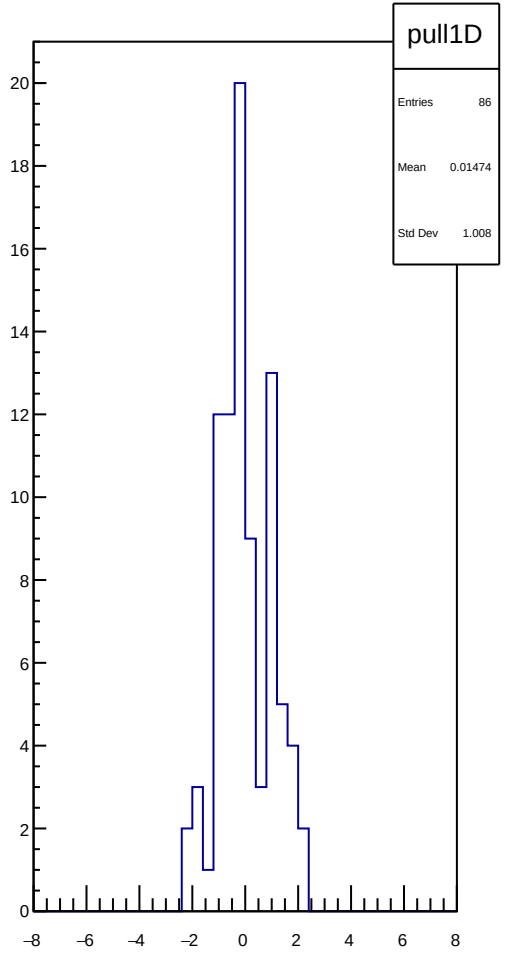

yield_sam8_rms vs run
χ² / ndf 7.535e+04 / 85
p0 0.01465 ± 1.179e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

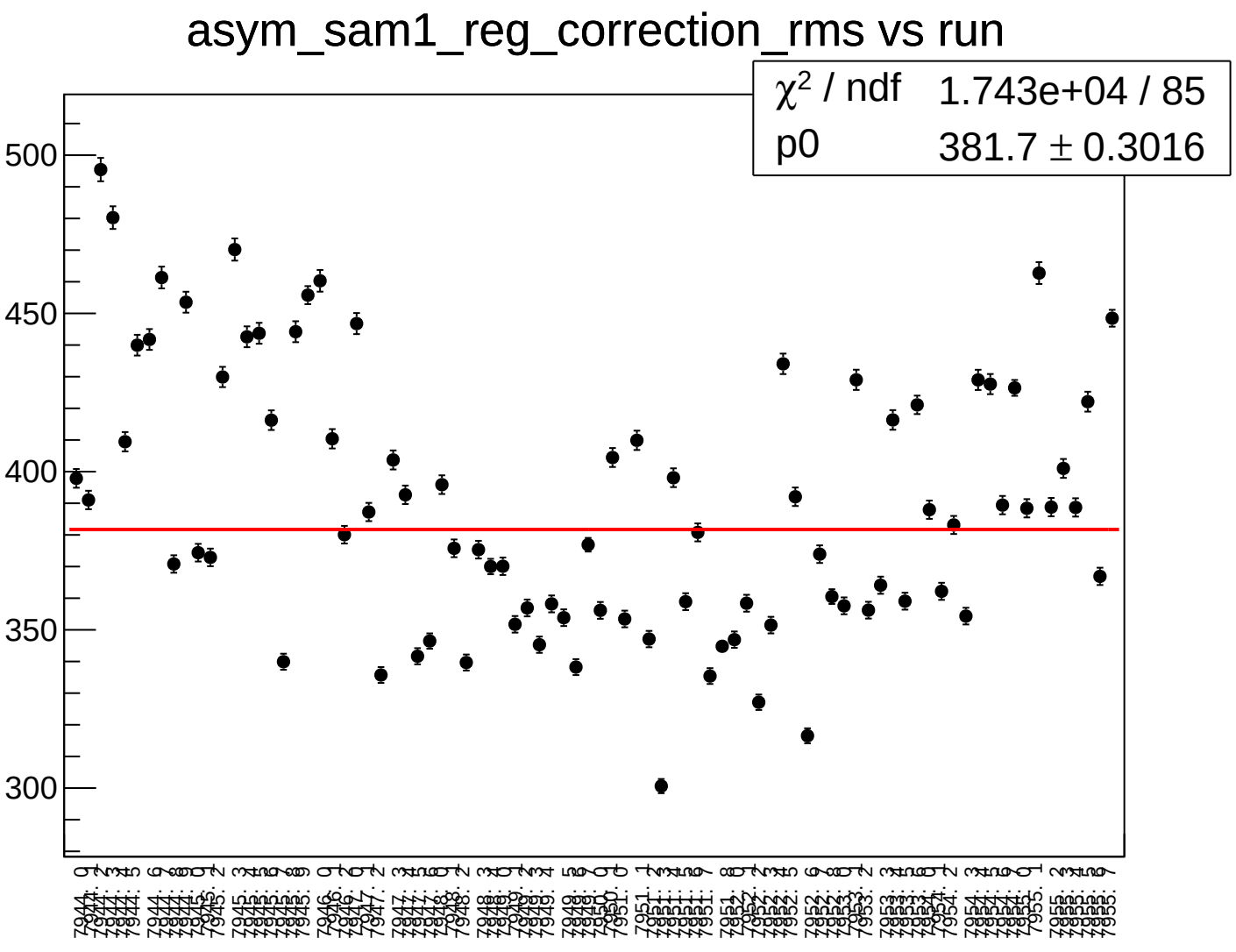

reg_asym_sam1_mean vs run
χ² / ndf 91.44 / 85
p0 11.08 ± 80.7
pull
Entries 86
Mean −880.3
Std Dev 0

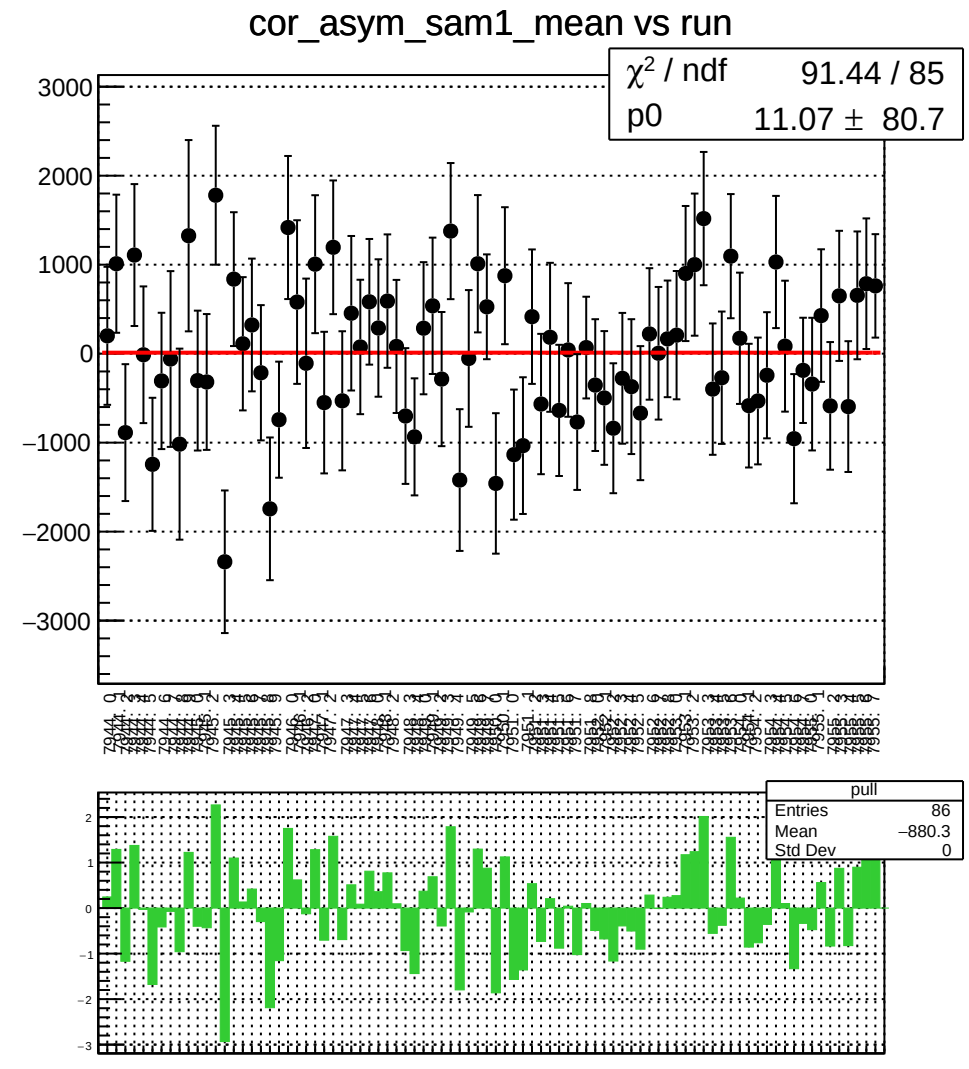

pull1D
Entries 86
Mean −0.001102
Std Dev 1.031

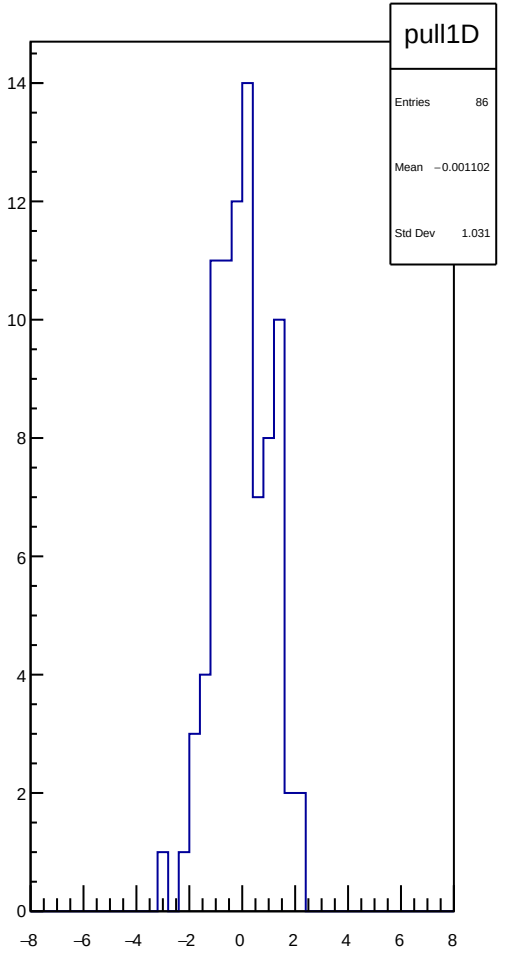

reg_asym_sam1_rms vs run
χ^2 / ndf 7516 / 85
p0 72.44 ± 0.05706
105
100
95
90
85
80
75
70
65

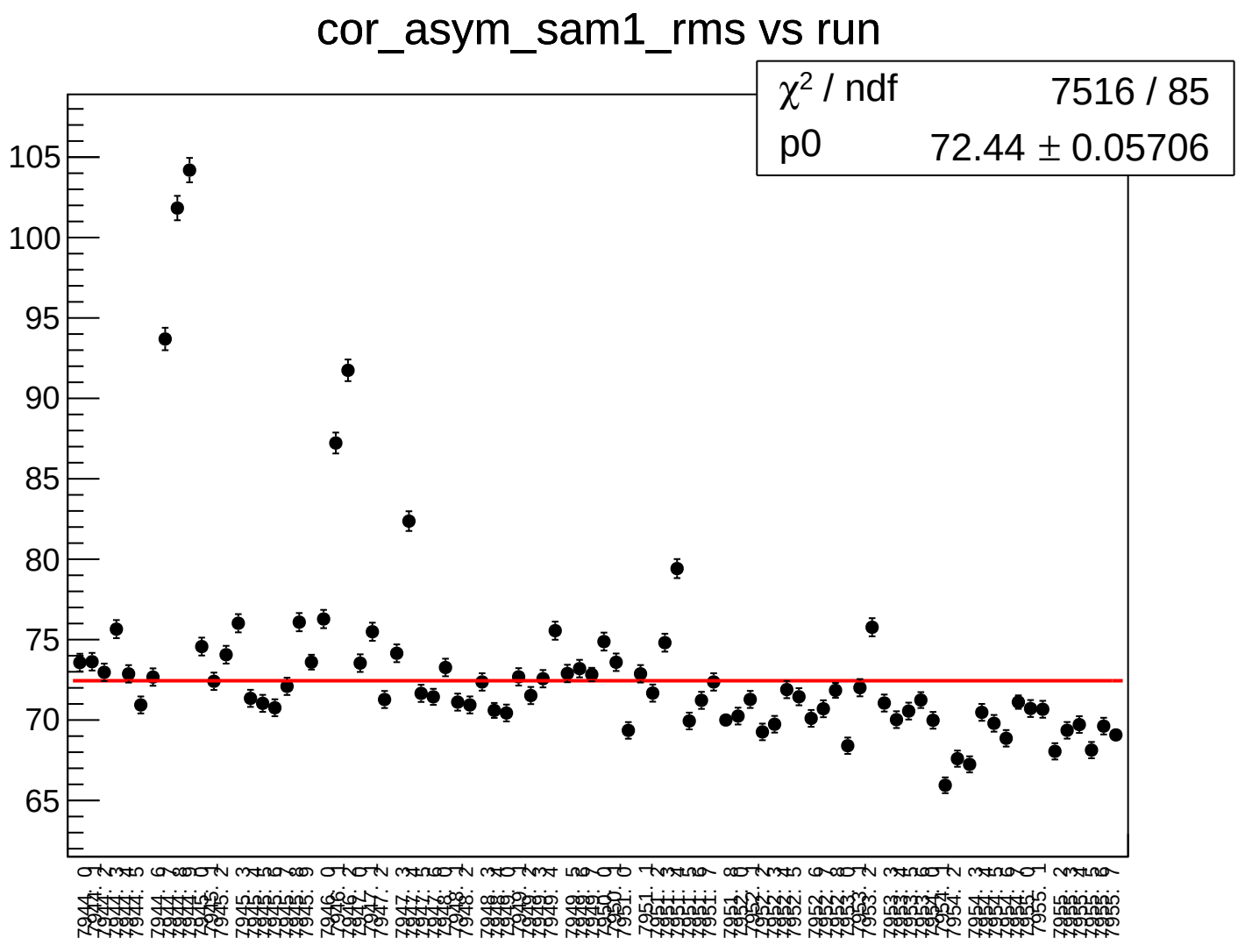

asym_sam1_reg_correction_mean vs run
χ² / ndf 87.4 / 85
p0 609.1 ± 426.5
pull
Entries 86
Mean 9.011
Std Dev 0

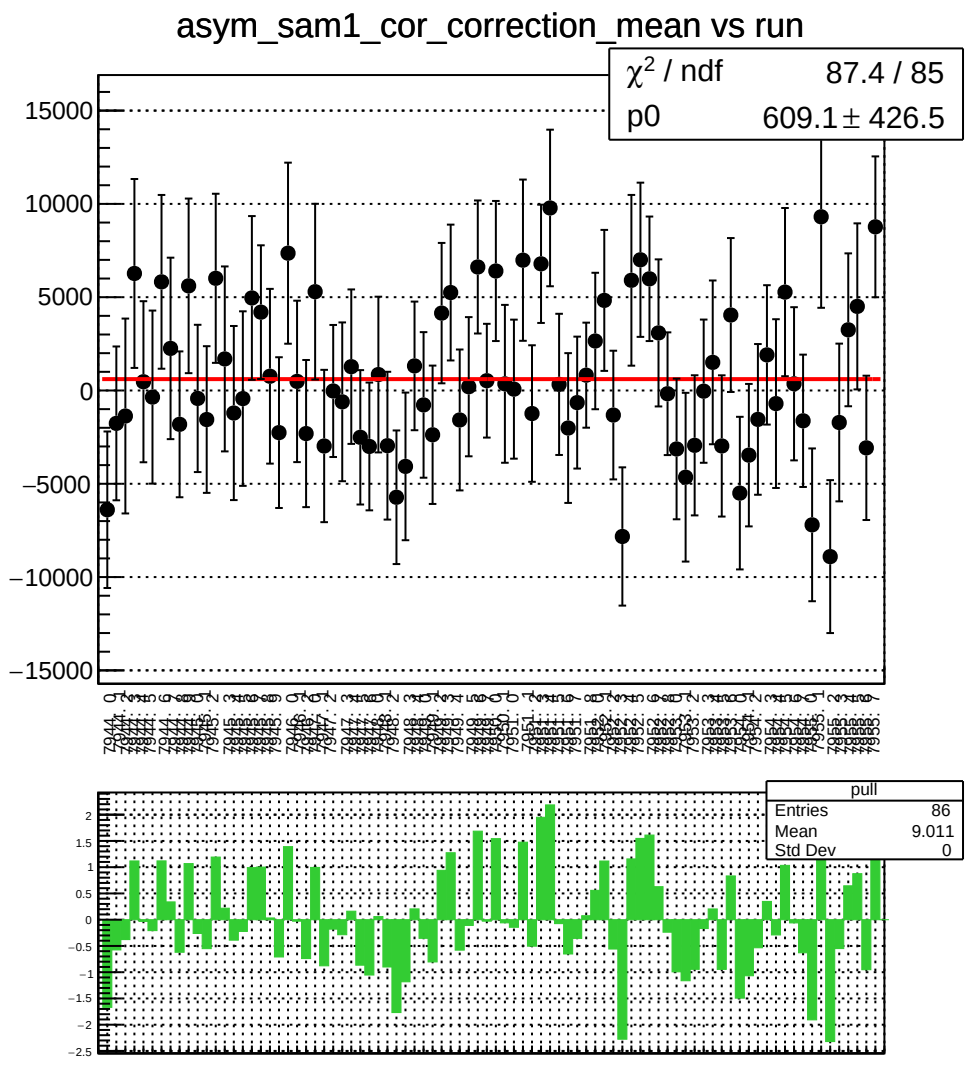

pull1D
Entries 86
Mean 0.01474
Std Dev 1.008

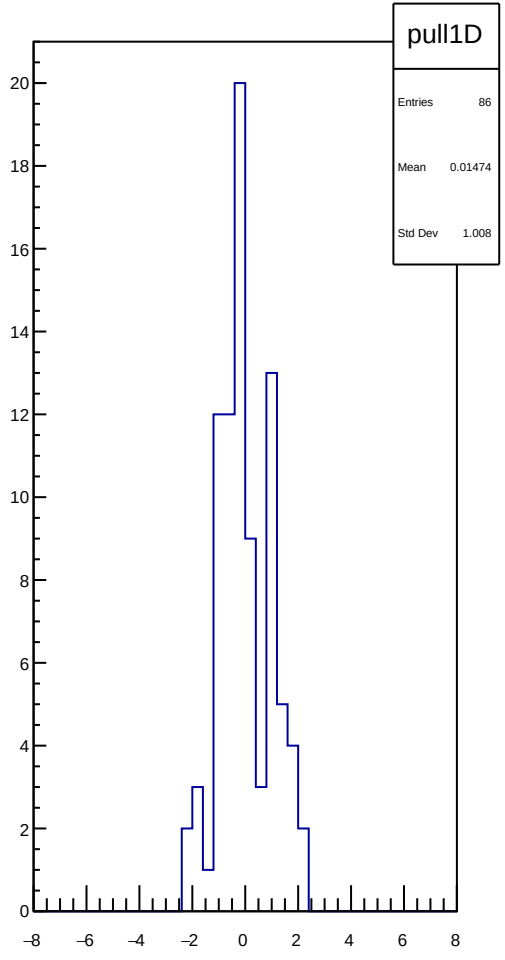

asym_sam1_reg_correction_rms vs run
χ² / ndf 1.743e+04 / 85
p0 381.7 ± 0.3016
500
450
400
350
300

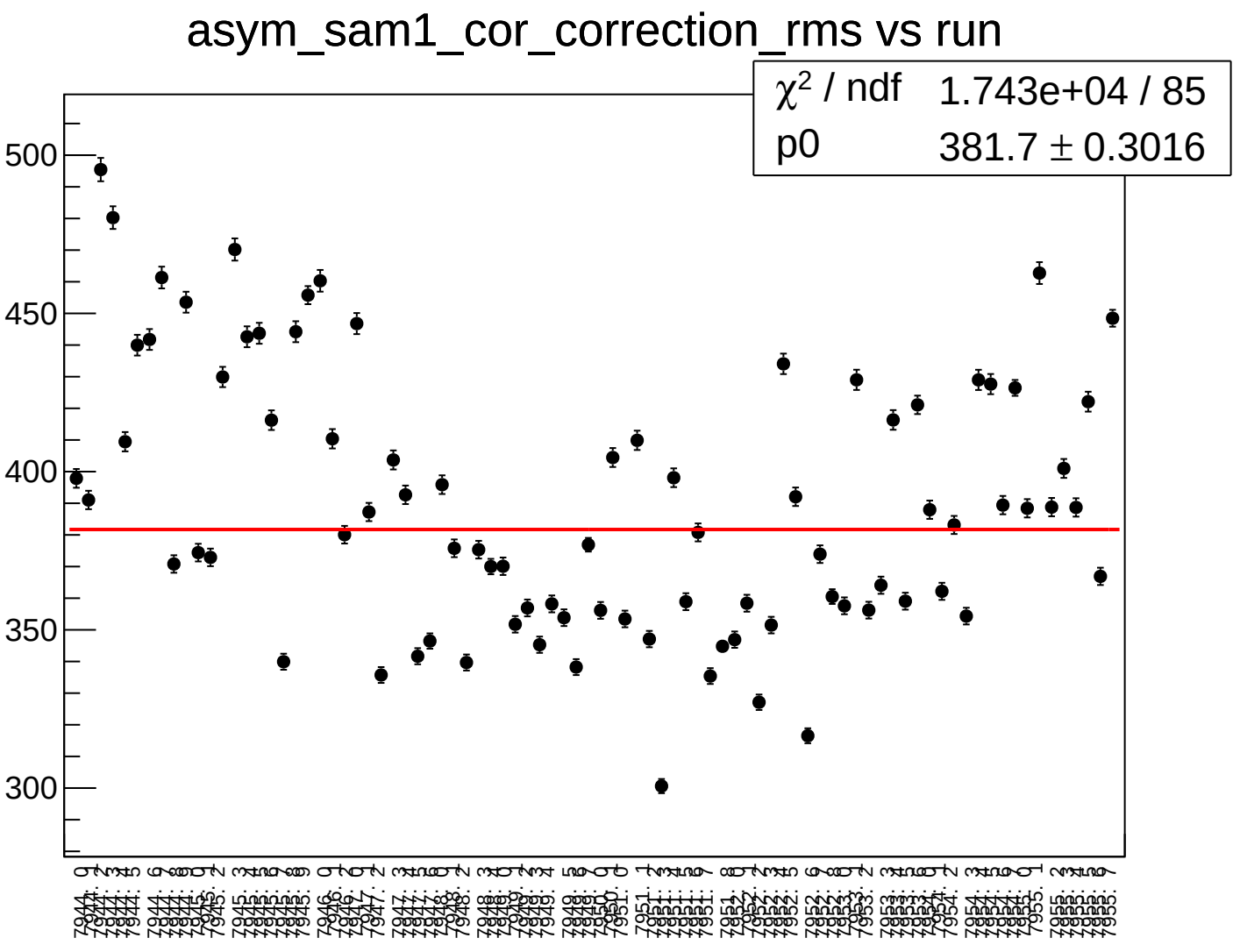

cor_asym_sam1_mean vs run
χ² / ndf 91.44 / 85
p0 11.07 ± 80.7
pull
Entries 86
Mean −880.3
Std Dev 0

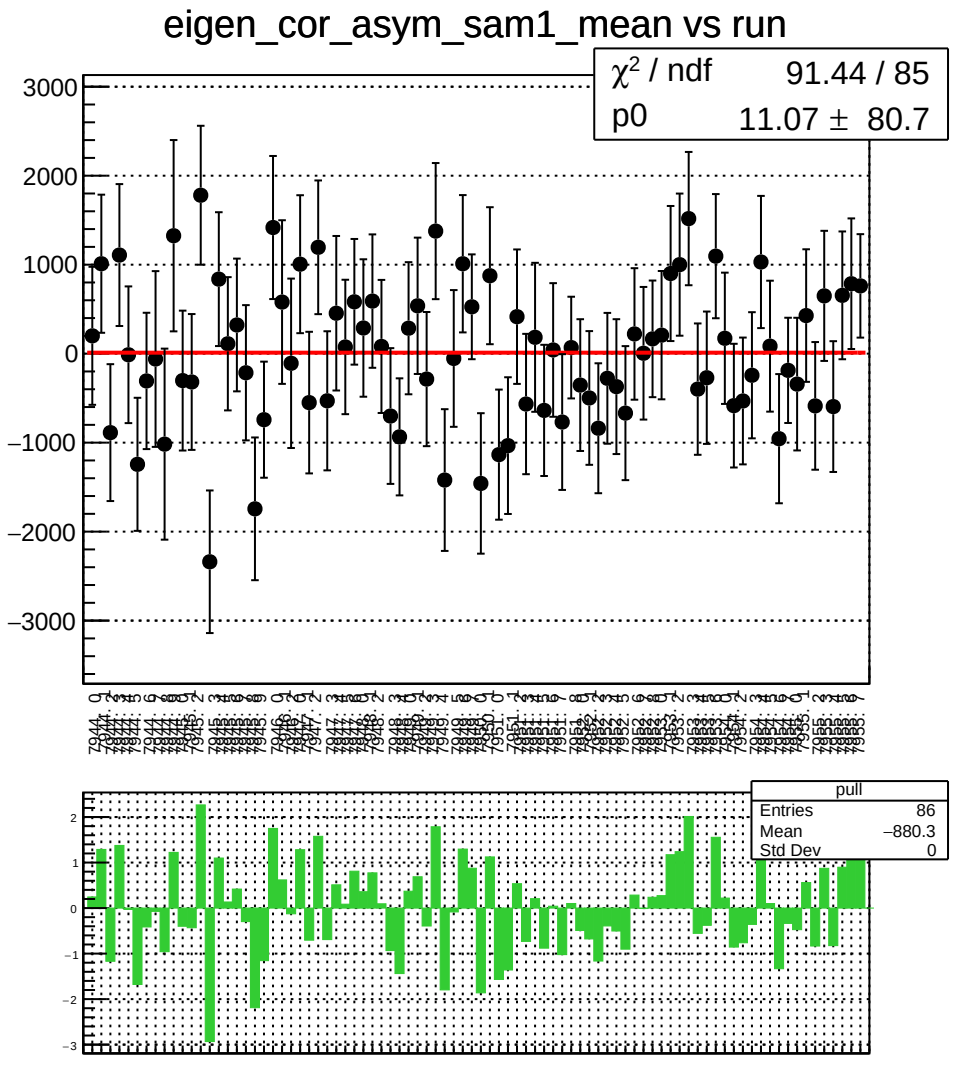

pull1D
Entries 86
Mean −0.001102
Std Dev 1.031

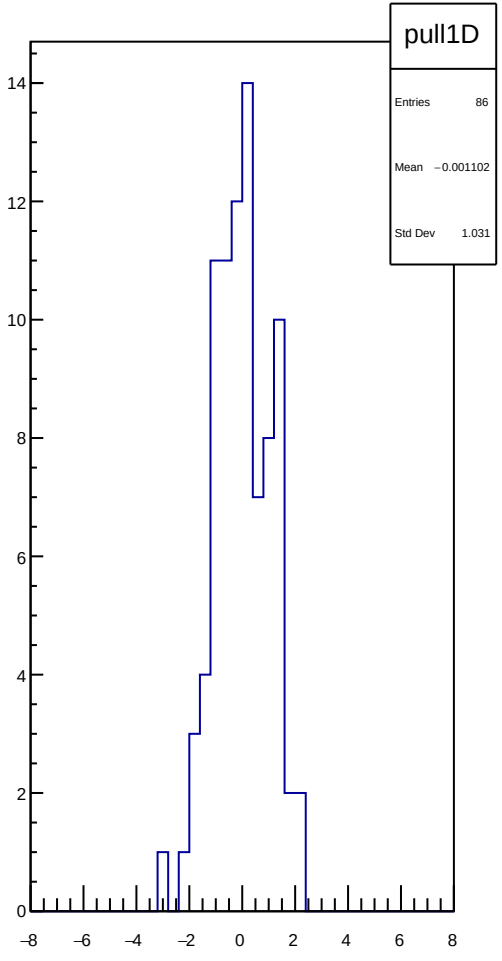

cor_asym_sam1_rms vs run
χ² / ndf 7516 / 85
p0 72.44 ± 0.05706
105
100
95
90
85
80
75
70
65

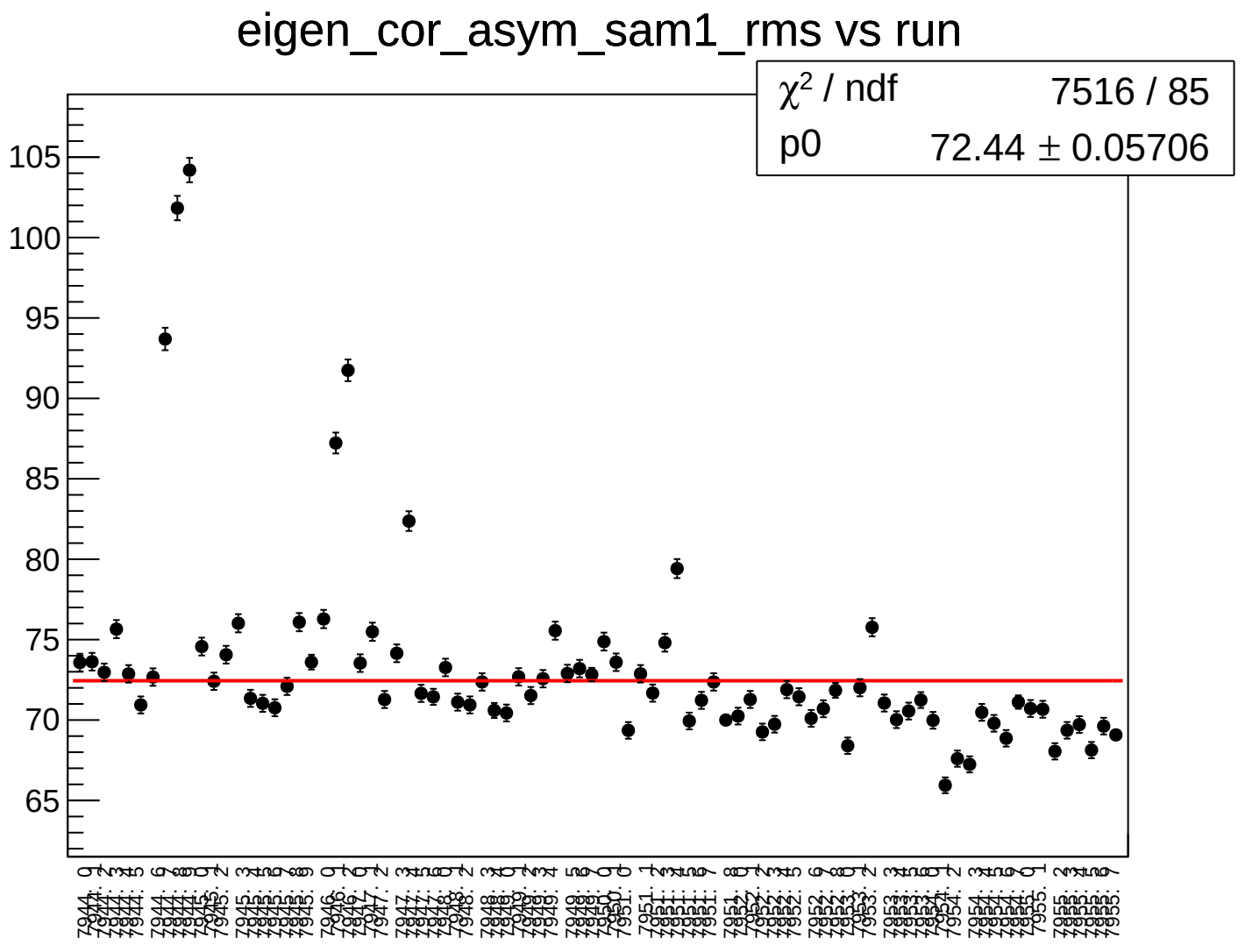

asym_sam1_cor_correction_mean vs run
χ² / ndf 87.4 / 85
p0 609.1 ± 426.5
pull
Entries 86
Mean 9.011
Std Dev 0

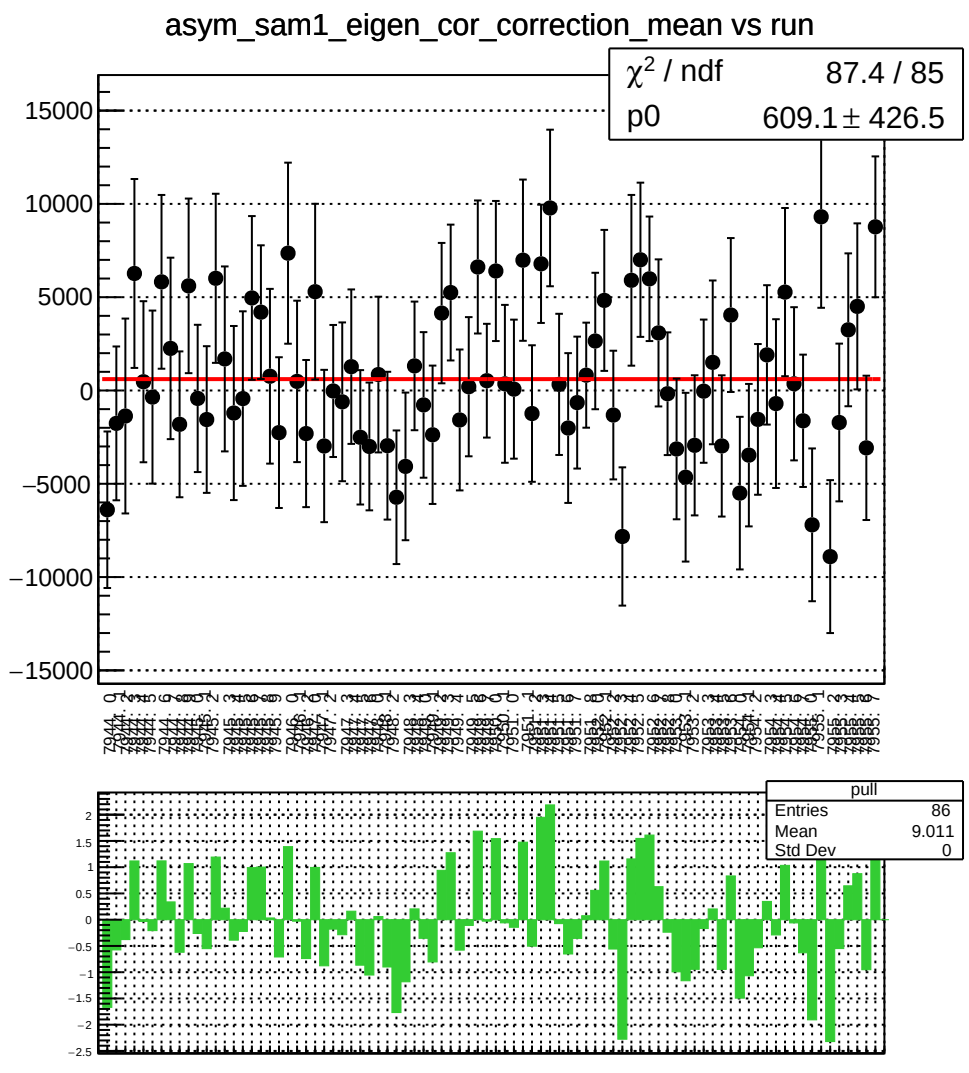

pull1D
Entries 86
Mean 0.01474
Std Dev 1.008

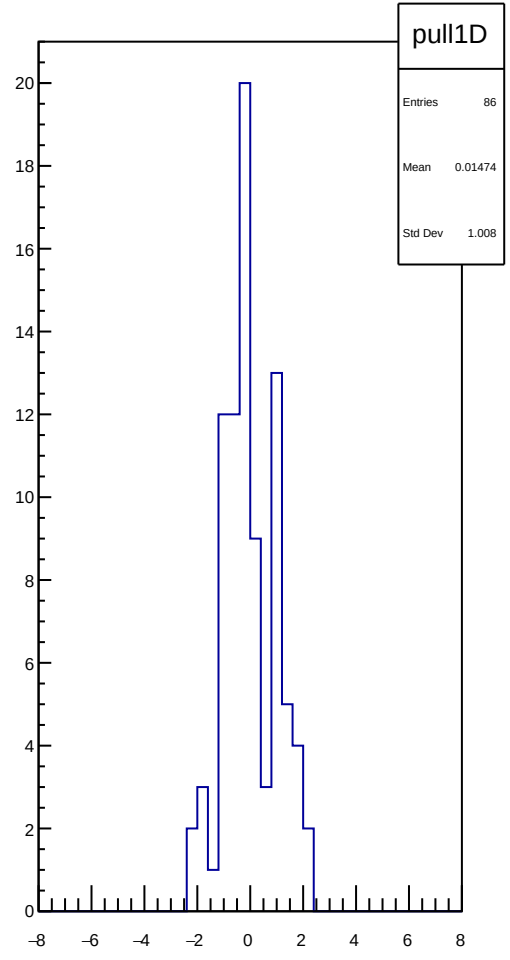

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.743e+04 / 85
p0 381.7 ± 0.3016
500
450
400
350
300

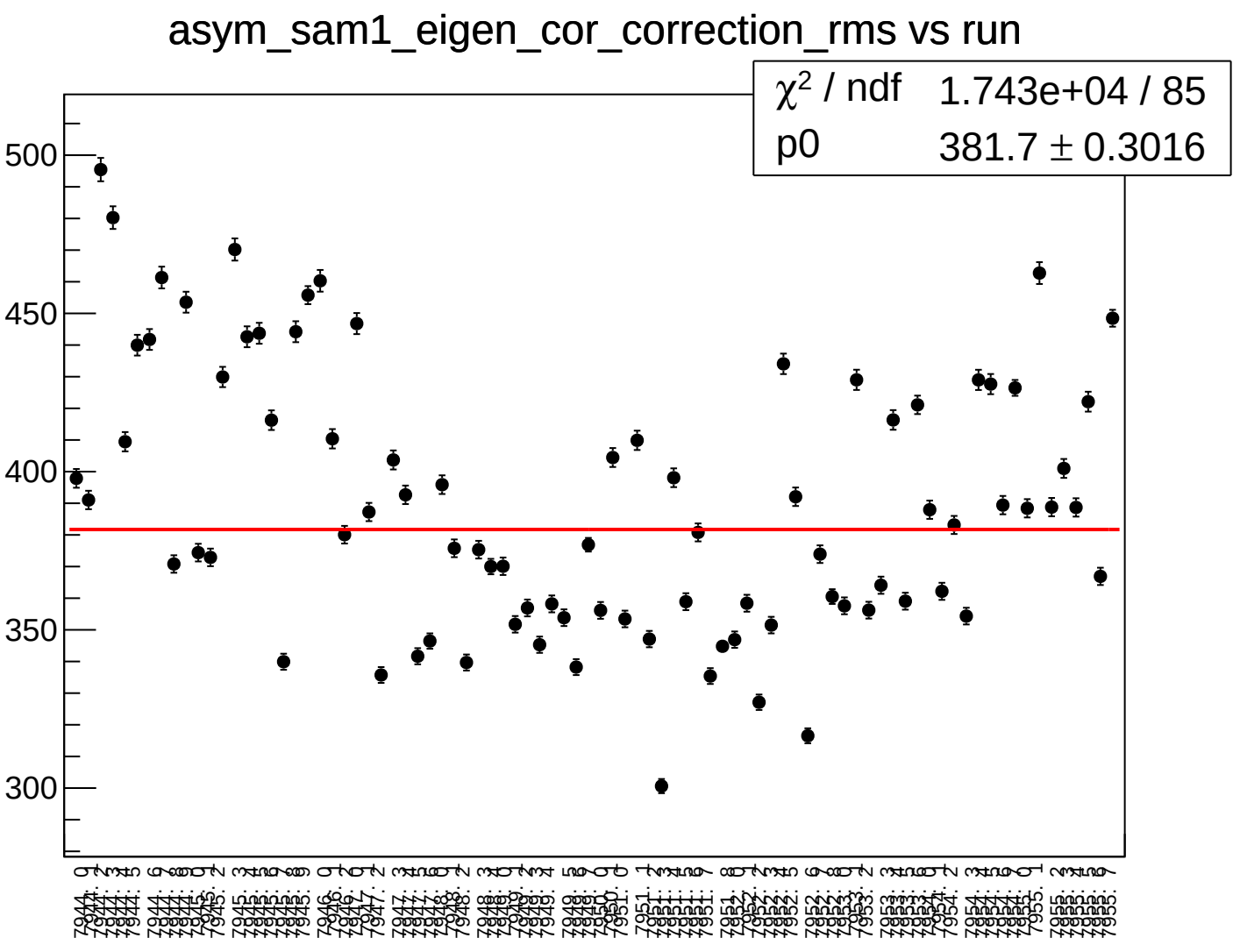

eigen_cor_asym_sam1_mean vs run
χ² / ndf 91.44 / 85
p0 11.07 ± 80.7
pull
Entries 86
Mean −880.3
Std Dev 0

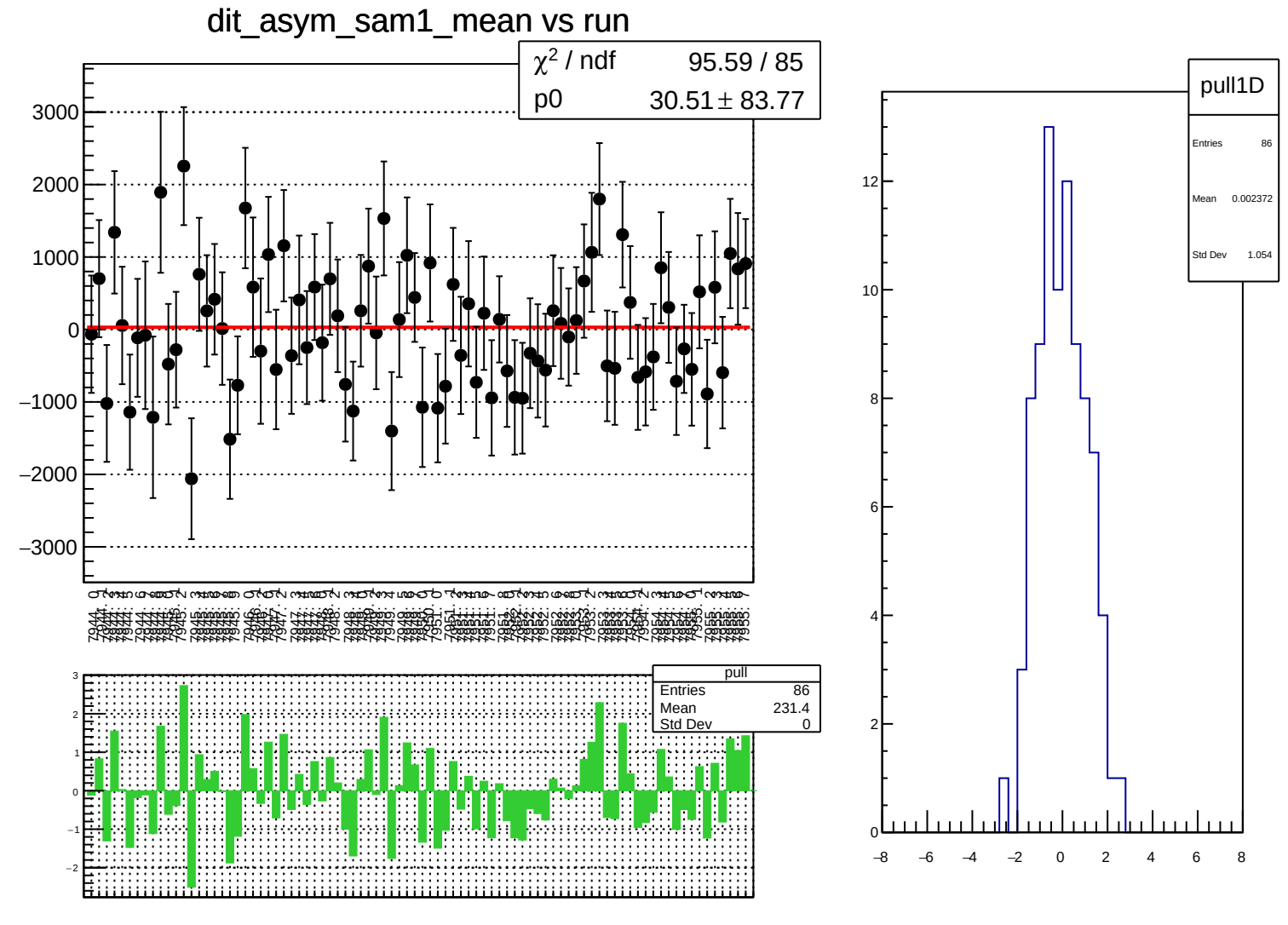

pull1D
Entries 86
Mean −0.001102
Std Dev 1.031

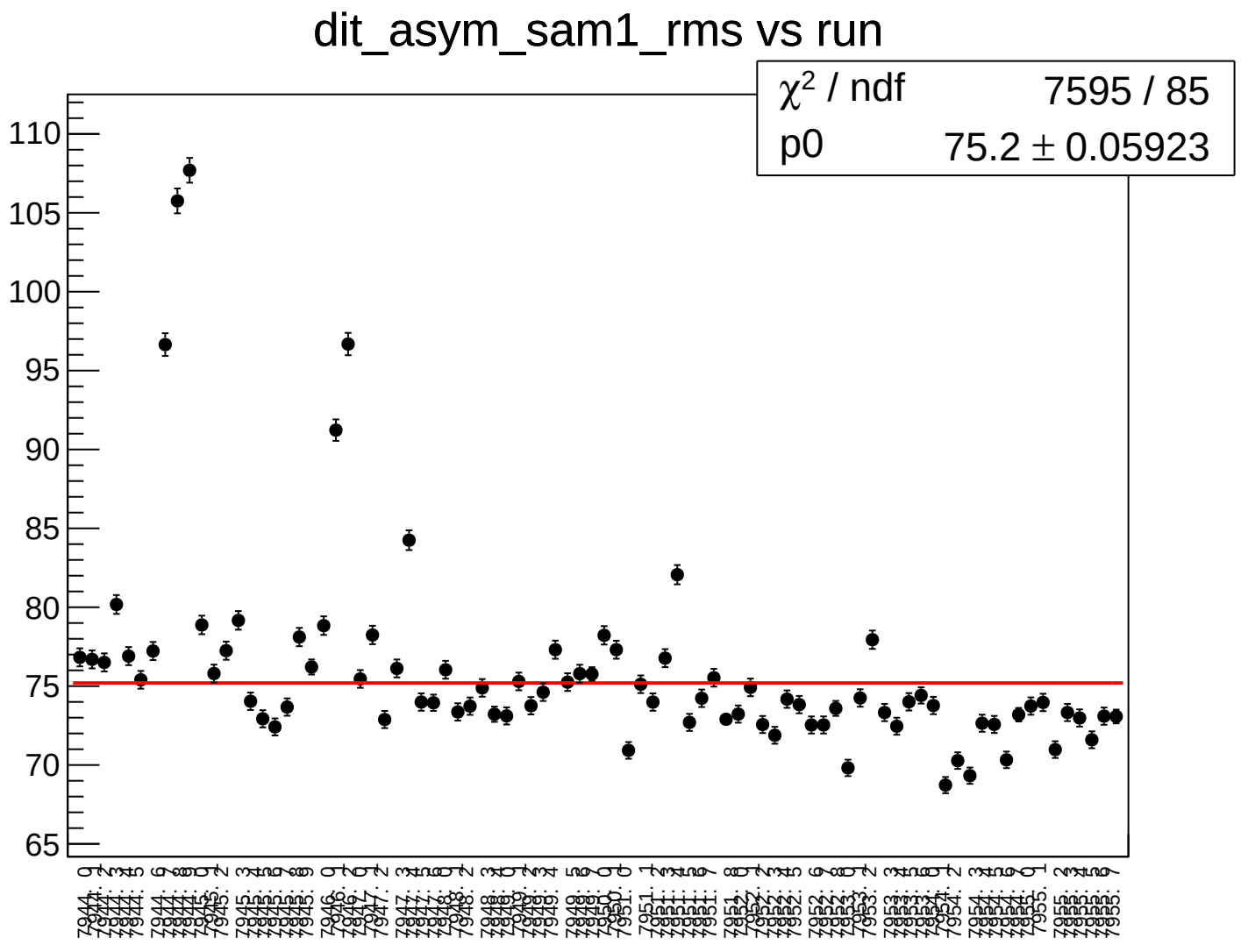

eigen_cor_asym_sam1_rms vs run
χ² / ndf 7516 / 85
p0 72.44 ± 0.05706
105
100
95
90
85
80
75
70
65

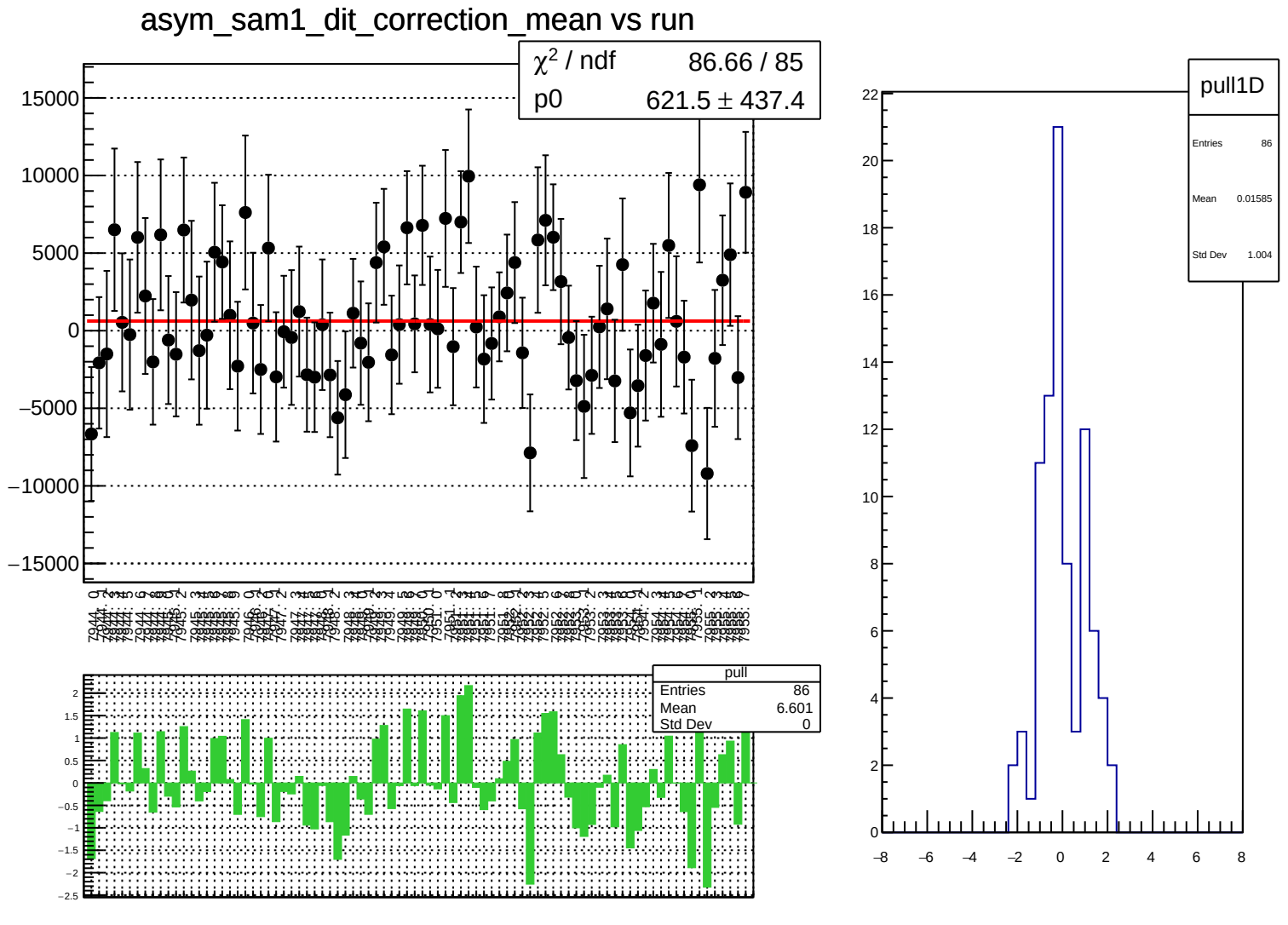

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 87.4 / 85
p0 609.1 ± 426.5
pull
Entries 86
Mean 9.011
Std Dev 0

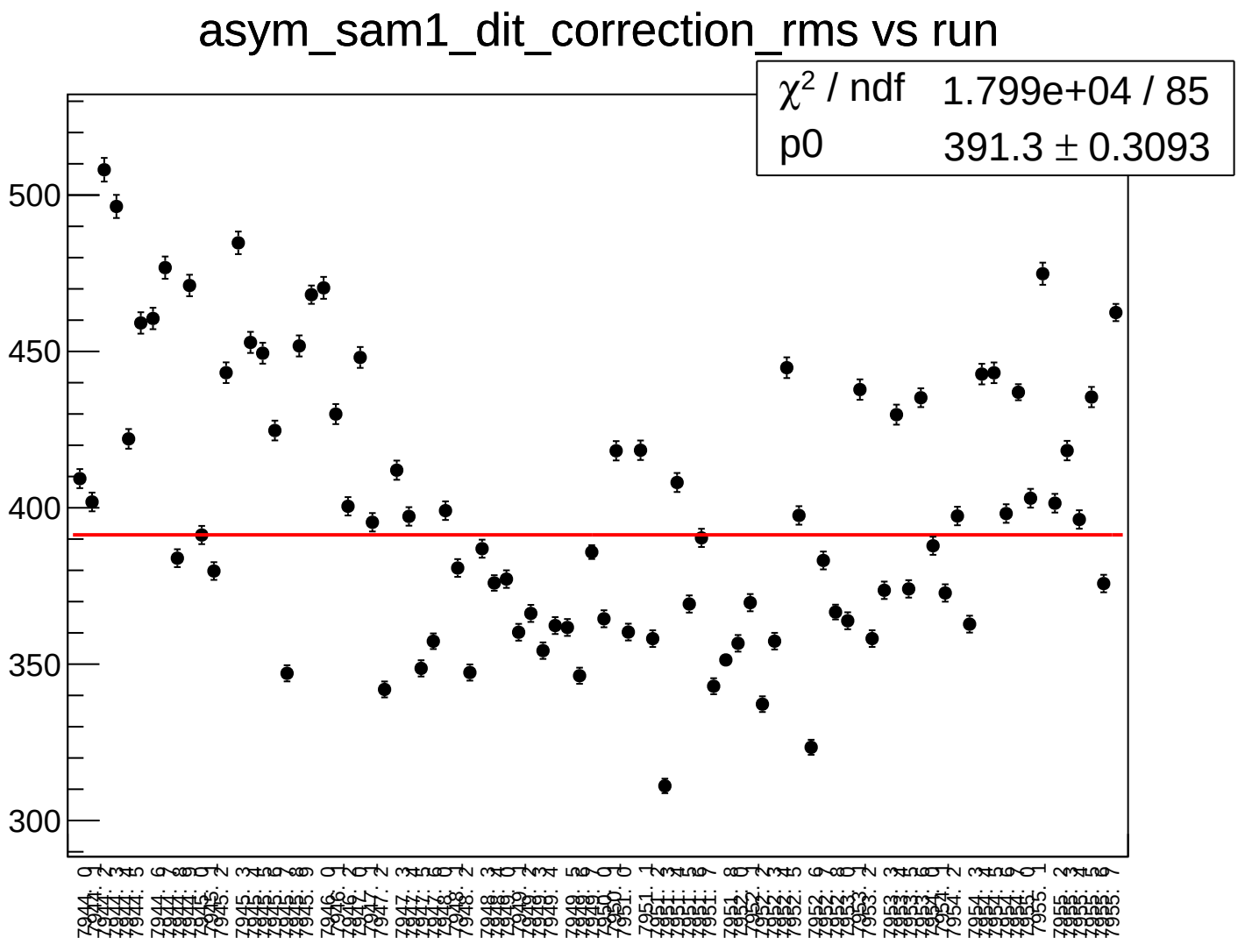

pull1D
Entries 86
Mean 0.01474
Std Dev 1.008

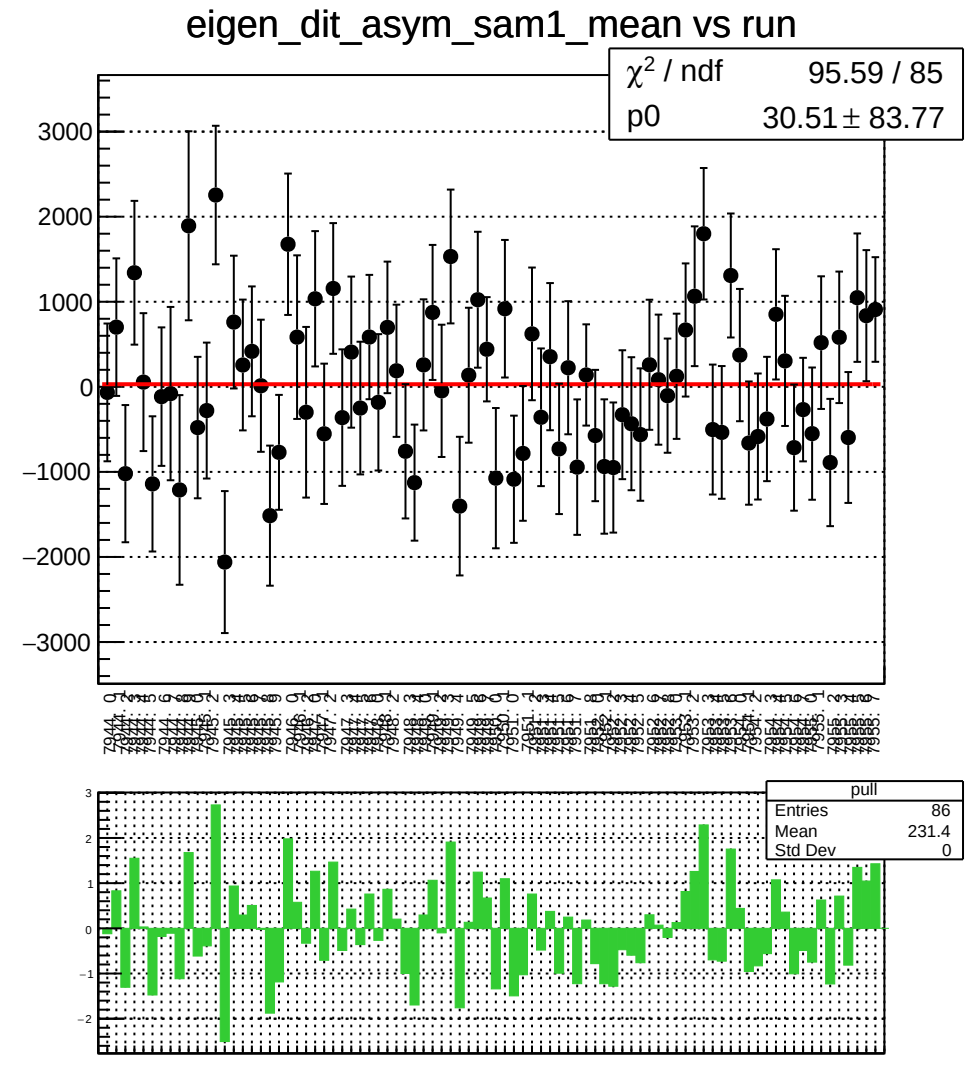

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.743e+04 / 85
p0 381.7 ± 0.3016
500
450
400
350
300

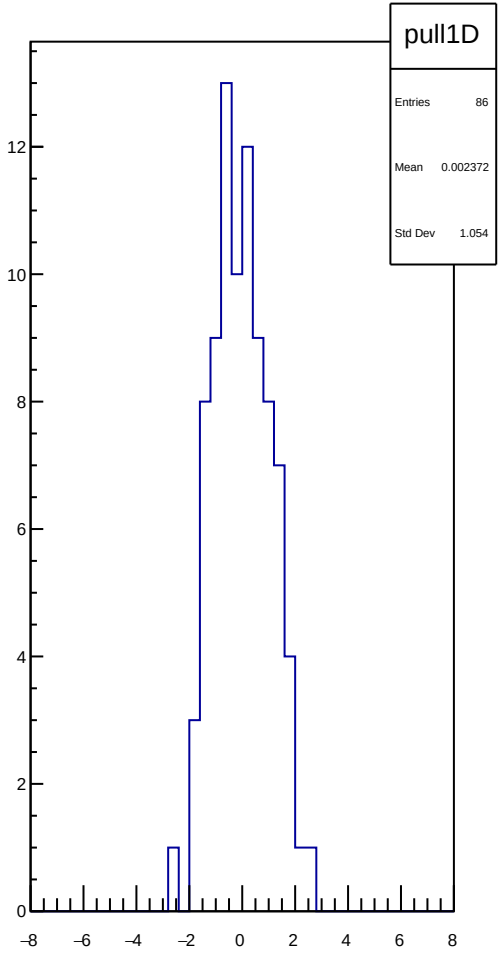

dit_asym_sam1_mean vs run
χ² / ndf 95.59 / 85
p0 30.51 ± 83.77
pull
Entries 86
Mean 231.4
Std Dev 0
pull1D
Entries 86
Mean 0.002372
Std Dev 1.054

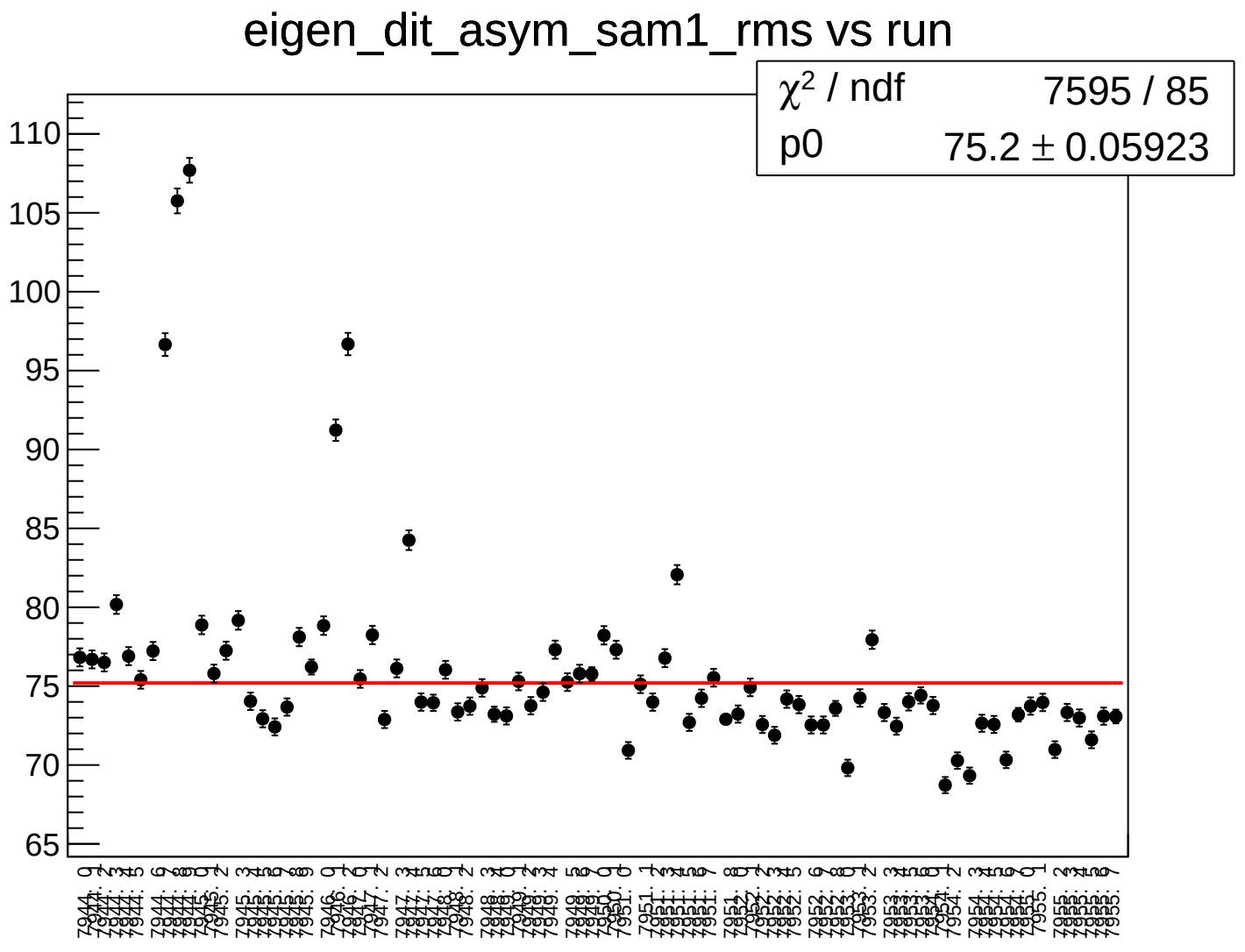

dit_asym_sam1_rms vs run
χ² / ndf 7595 / 85
p0 75.2 ± 0.05923
110
105
100
95
90
85
80
75
70
65

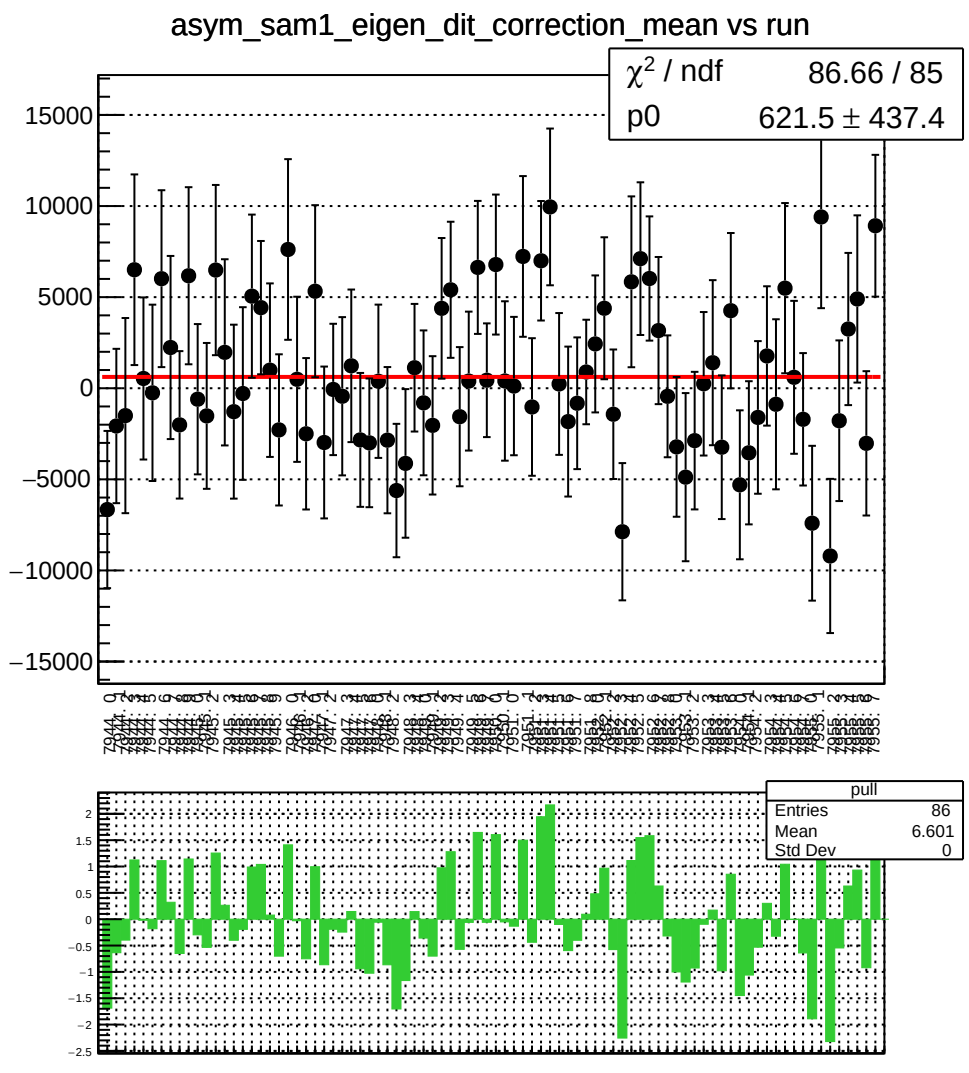

asym_sam1_dit_correction_mean vs run
χ² / ndf 86.66 / 85
p0 621.5 ± 437.4
pull
Entries 86
Mean 6.601
Std Dev 0
pull1D
Entries 86
Mean 0.01585
Std Dev 1.004

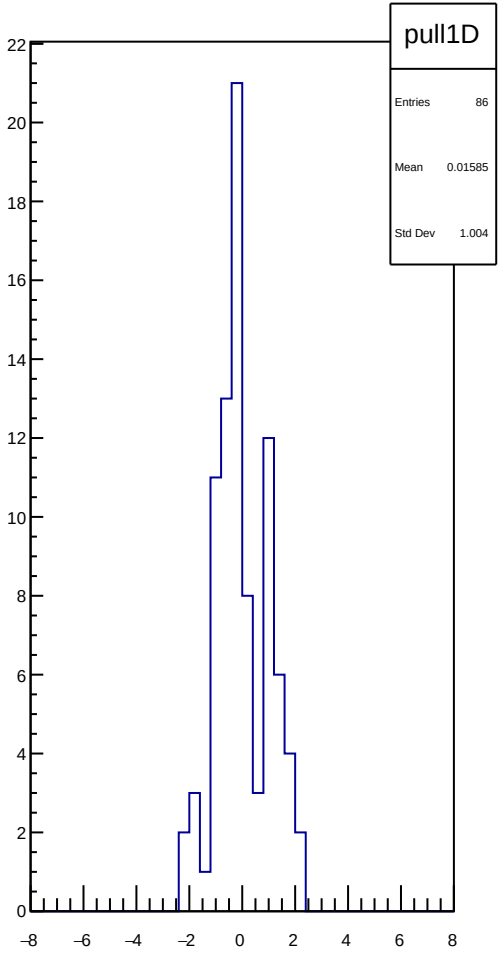

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.799e+04 / 85
p0 391.3 ± 0.3093
500
450
400
350
300

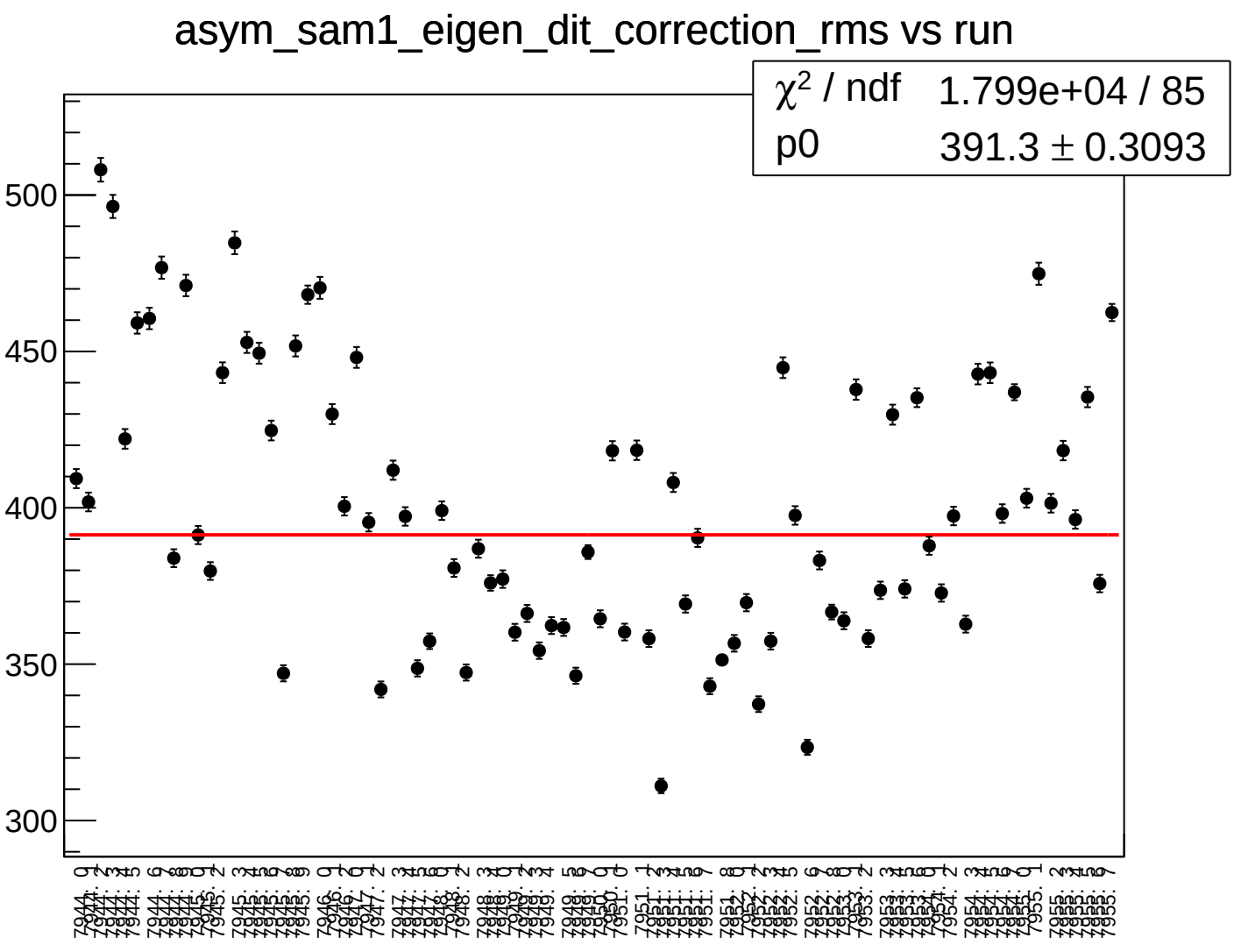

eigen_dit_asym_sam1_mean vs run
χ² / ndf 95.59 / 85
p0 30.51 ± 83.77
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 231.4
Std Dev 0
3
2
1
0
−1
−2

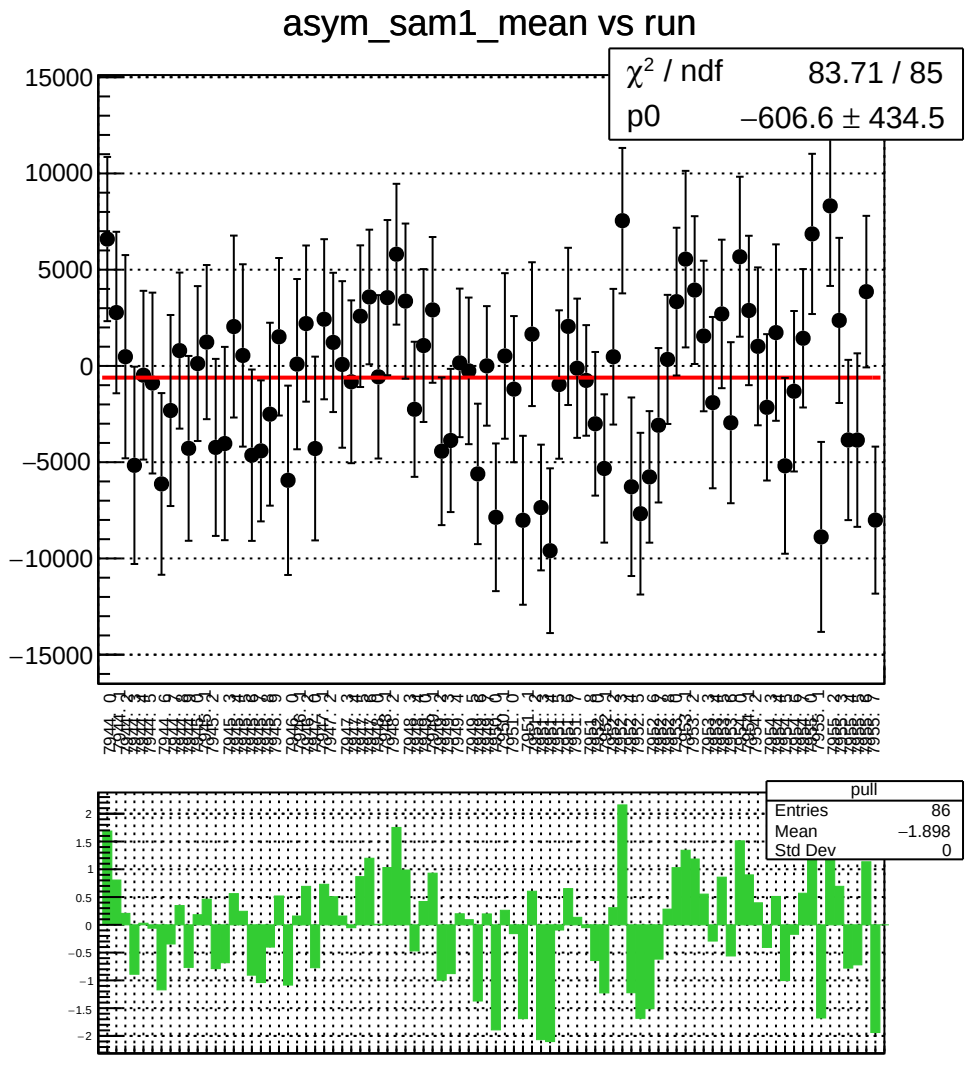

pull1D
Entries 86
Mean 0.002372
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

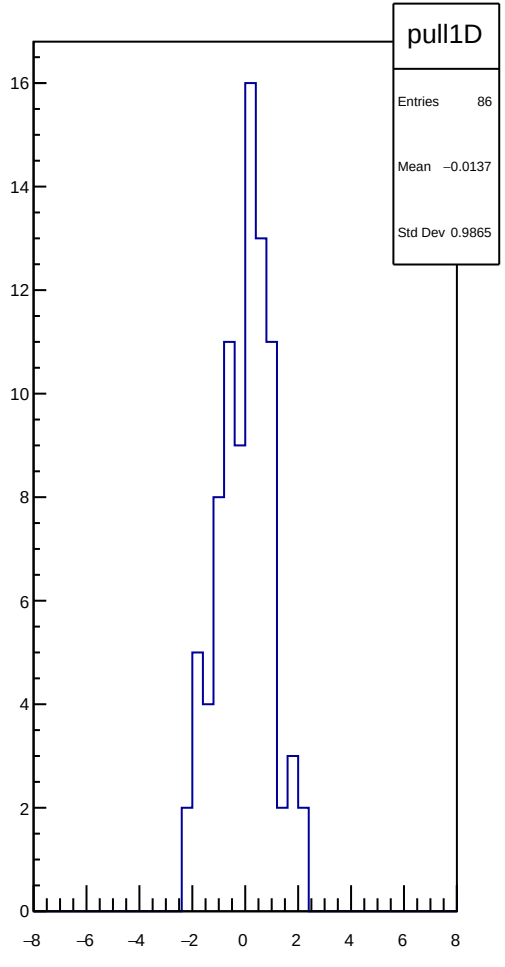

eigen_dit_asym_sam1_rms vs run
χ² / ndf 7595 / 85
p0 75.2 ± 0.05923
110
105
100
95
90
85
80
75
70
65

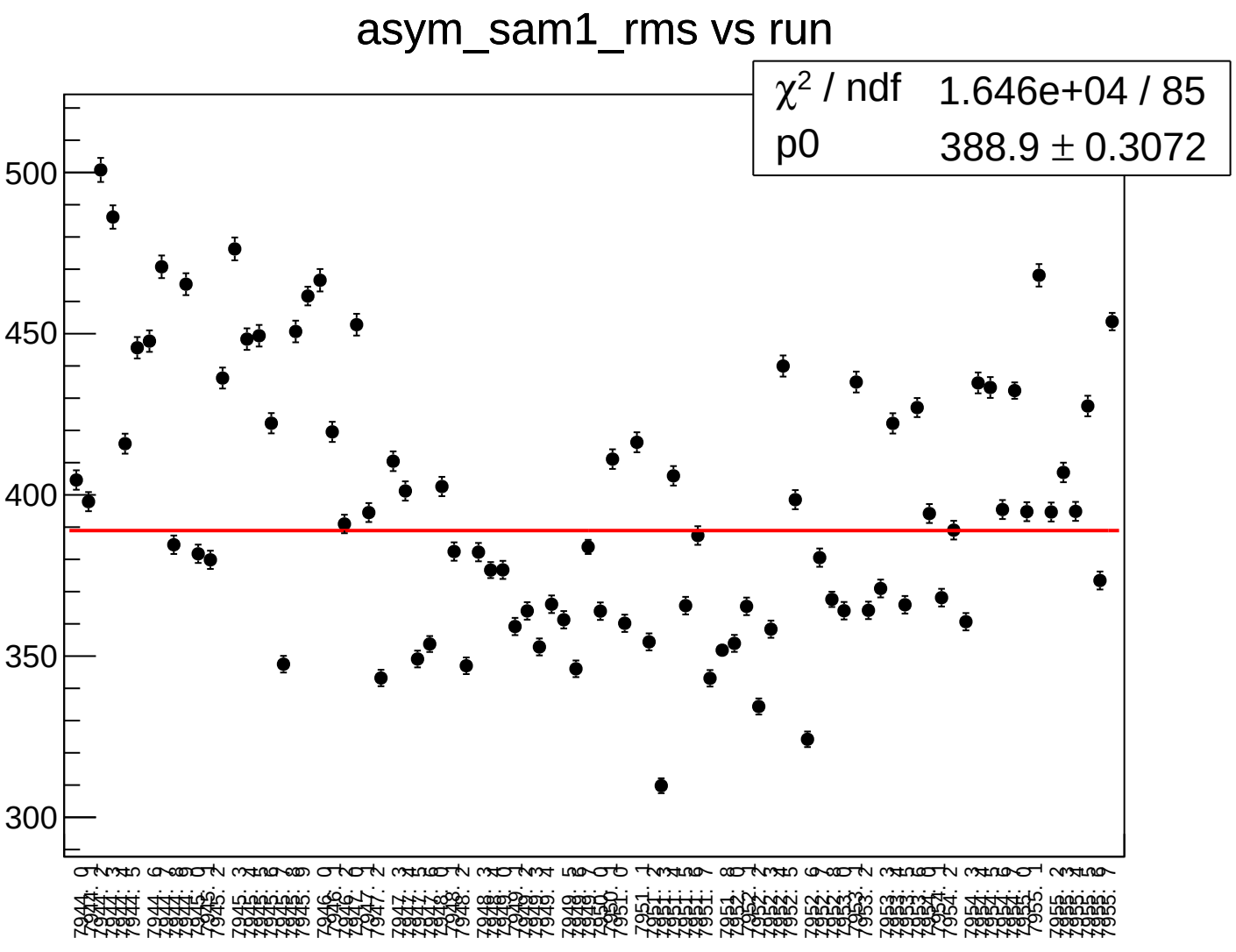

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 86.66 / 85
p0 621.5 ± 437.4
pull
Entries 86
Mean 6.601
Std Dev 0

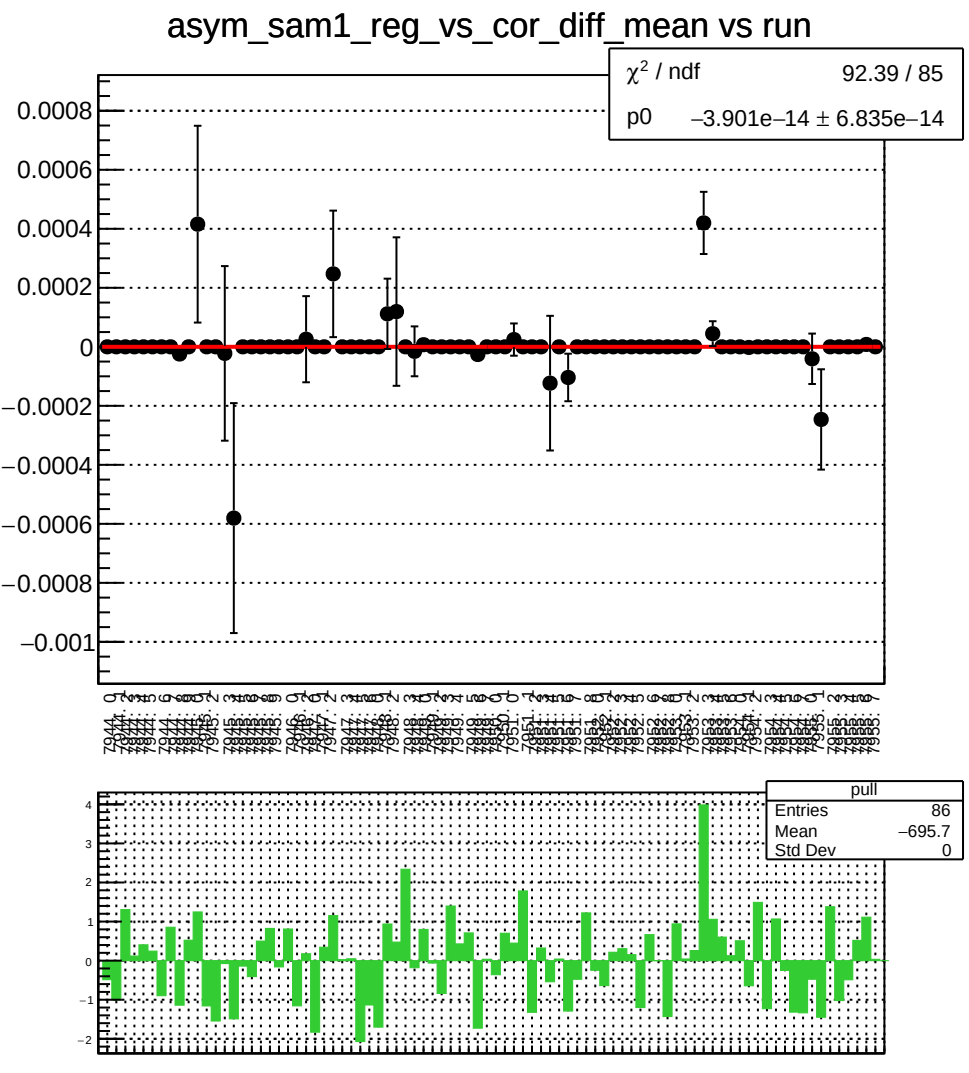

pull1D
Entries 86
Mean 0.01585
Std Dev 1.004

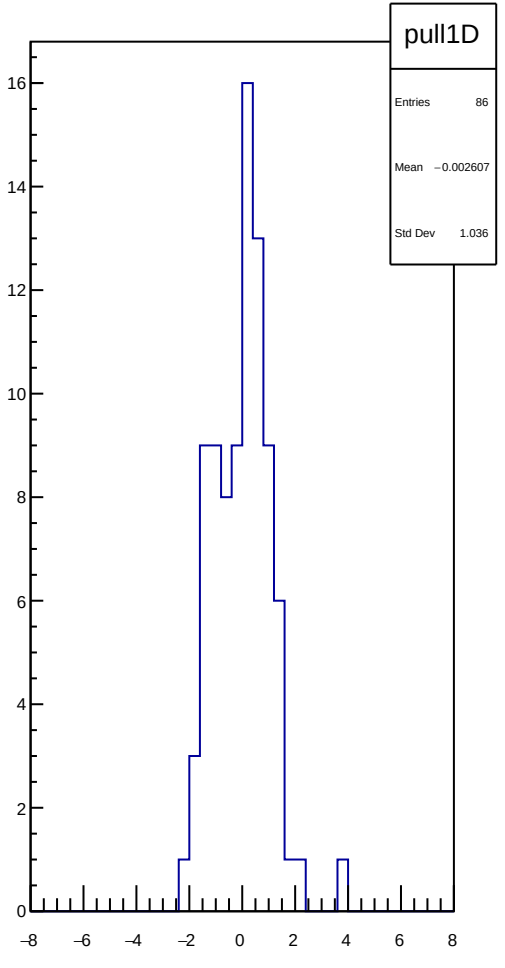

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.799e+04 / 85
p0 391.3 ± 0.3093
500
450
400
350
300

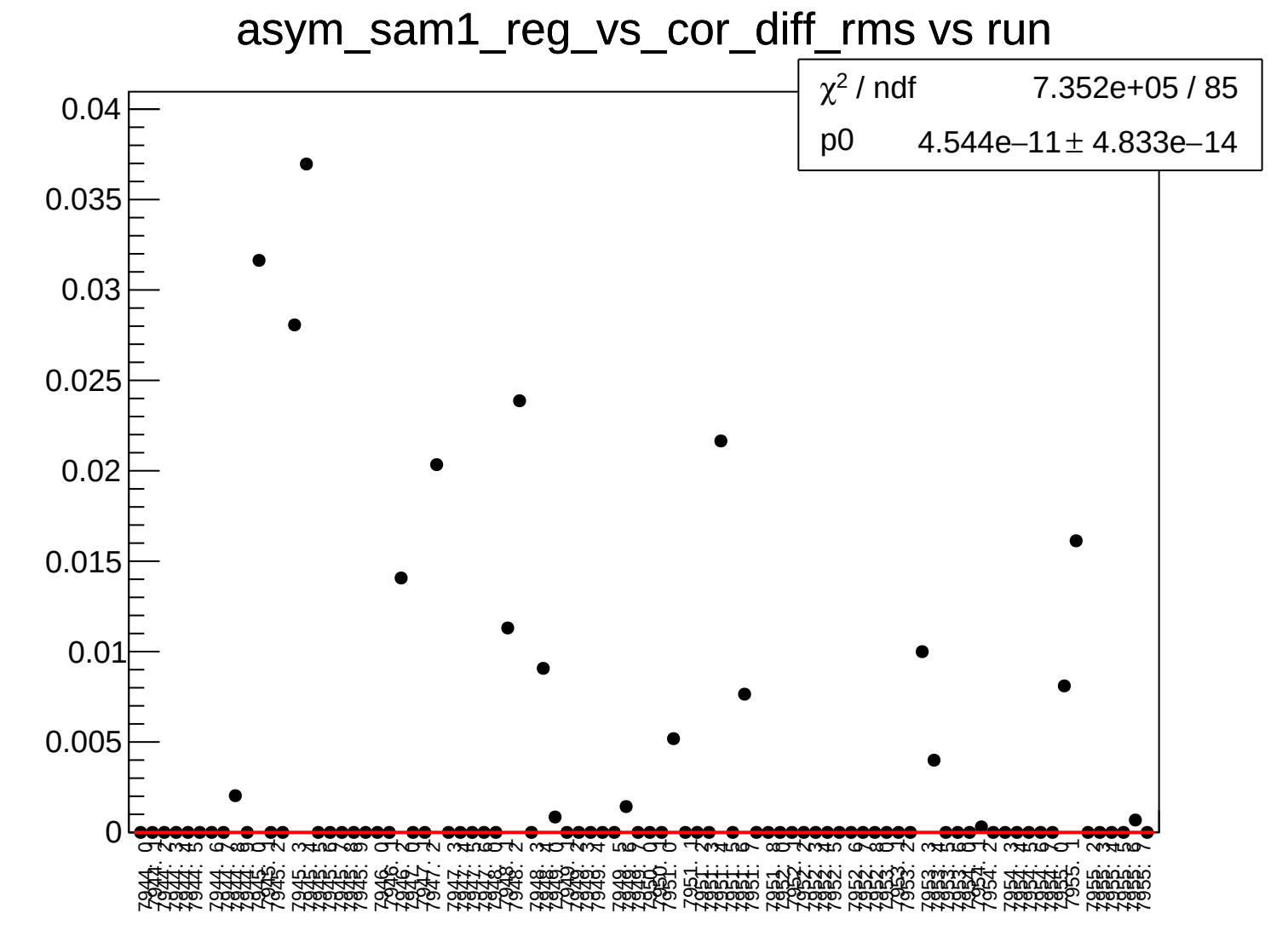

asym_sam1_mean vs run
χ² / ndf 83.71 / 85
p0 −606.6 ± 434.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −1.898
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

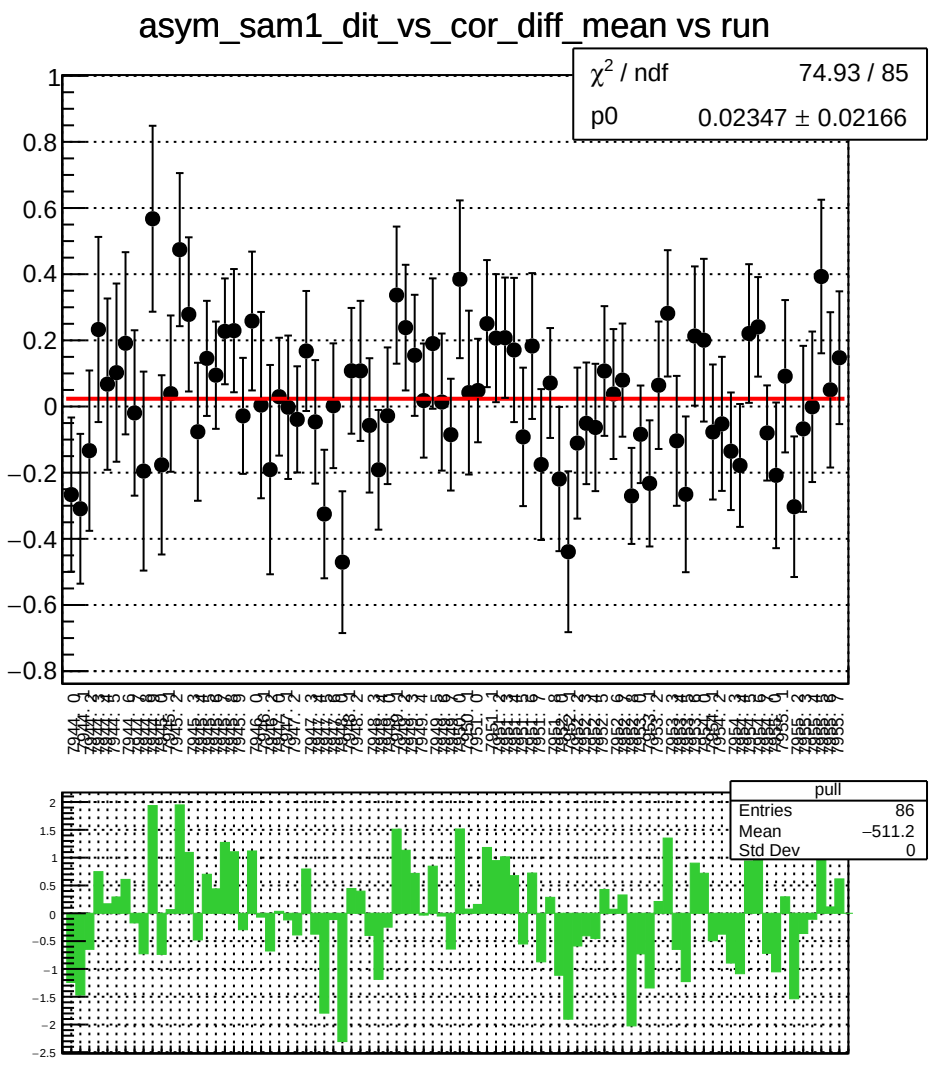

pull1D
Entries 86
Mean −0.0137
Std Dev 0.9865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

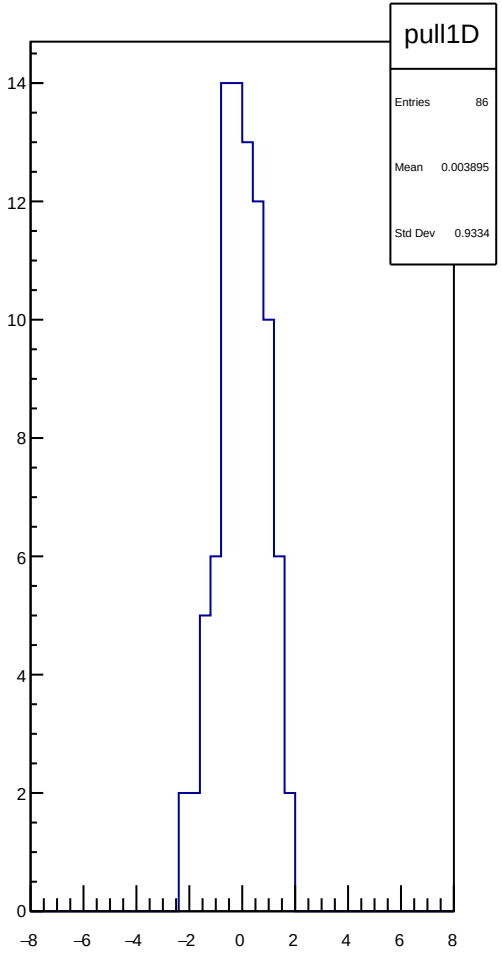

asym_sam1_rms vs run
χ² / ndf 1.646e+04 / 85
p0 388.9 ± 0.3072
500
450
400
350
300

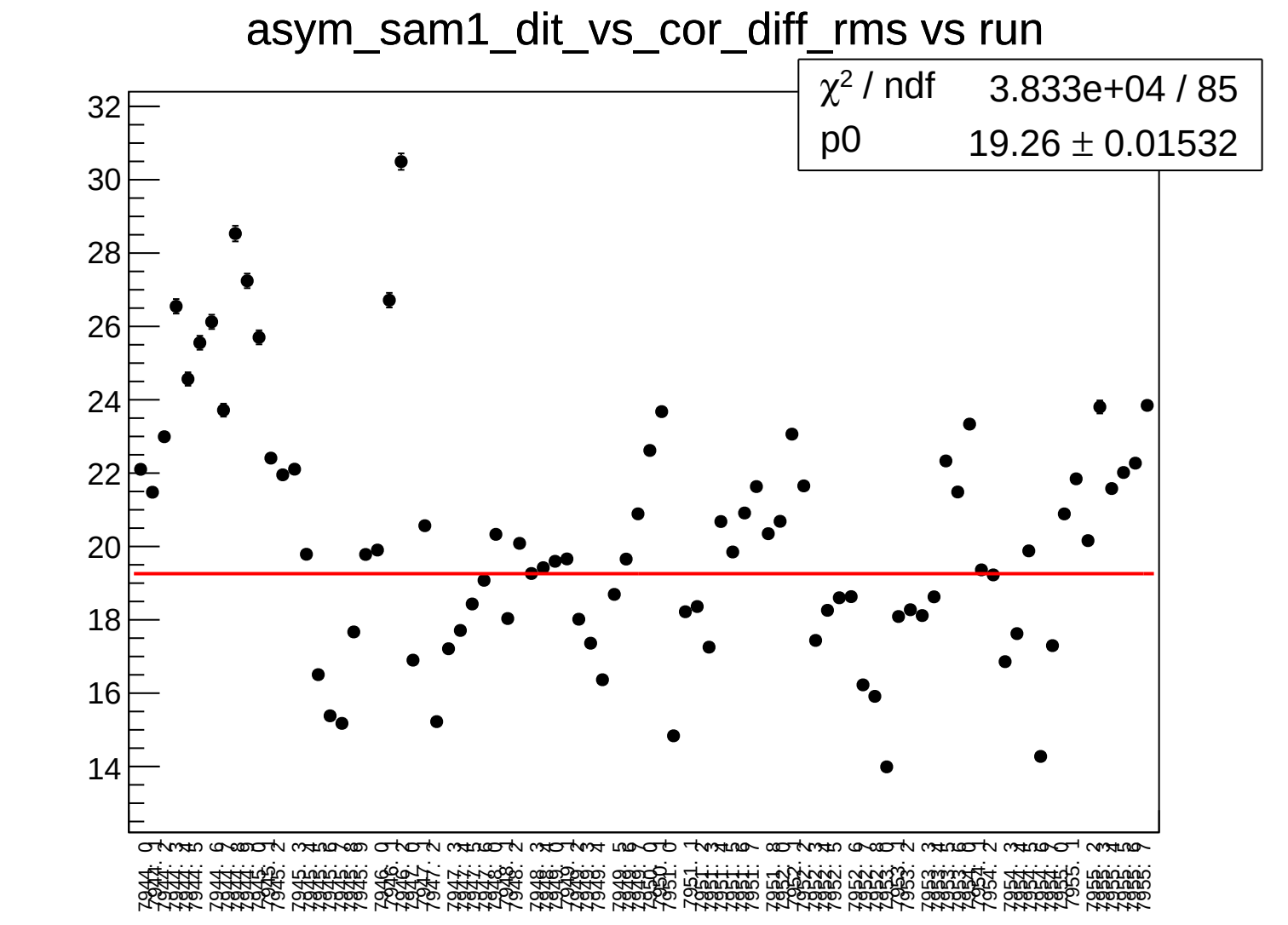

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 92.39 / 85
p0 −3.901e−14 ± 6.835e−14
pull
Entries 86
Mean −695.7
Std Dev 0

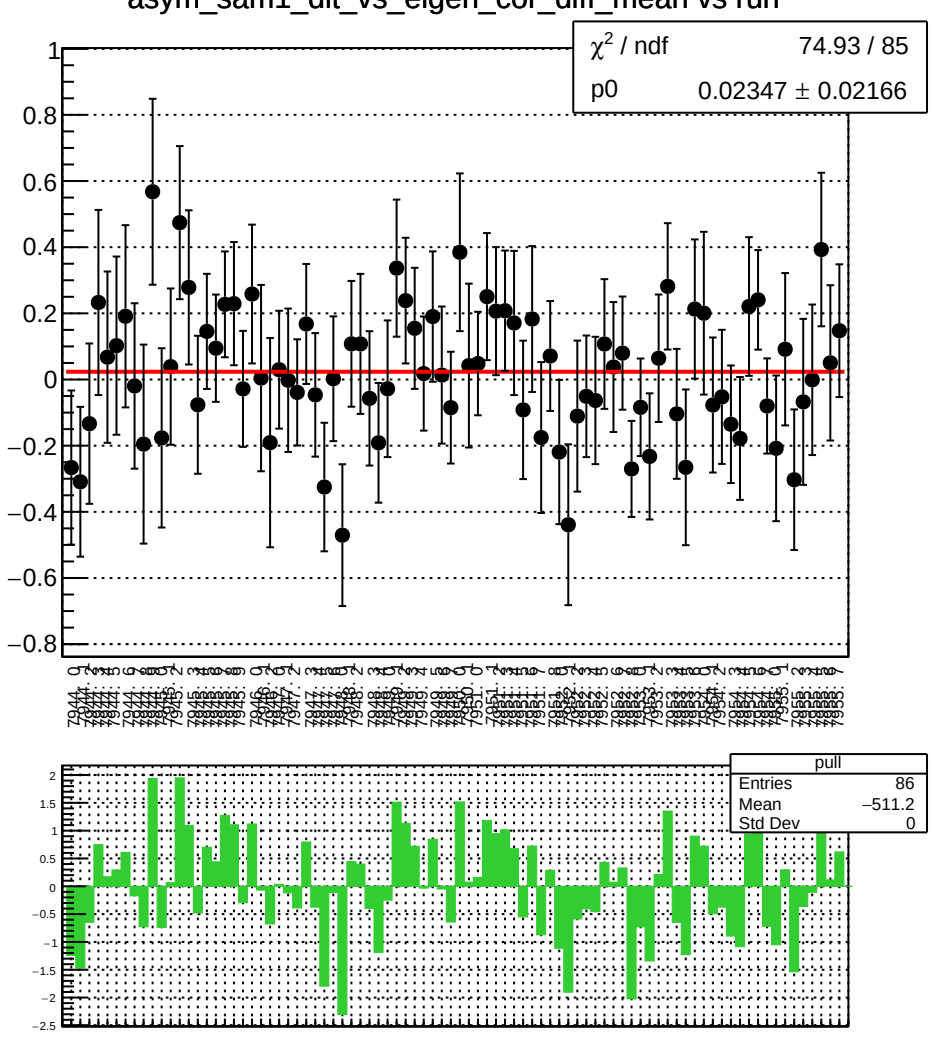

pull1D
Entries 86
Mean −0.002607
Std Dev 1.036

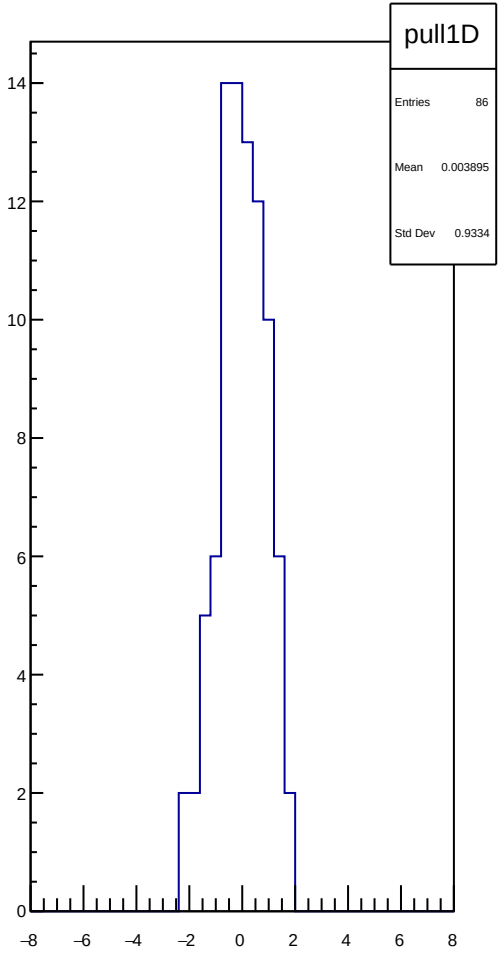

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 7.352e+05 / 85
p0 4.544e−11 ± 4.833e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

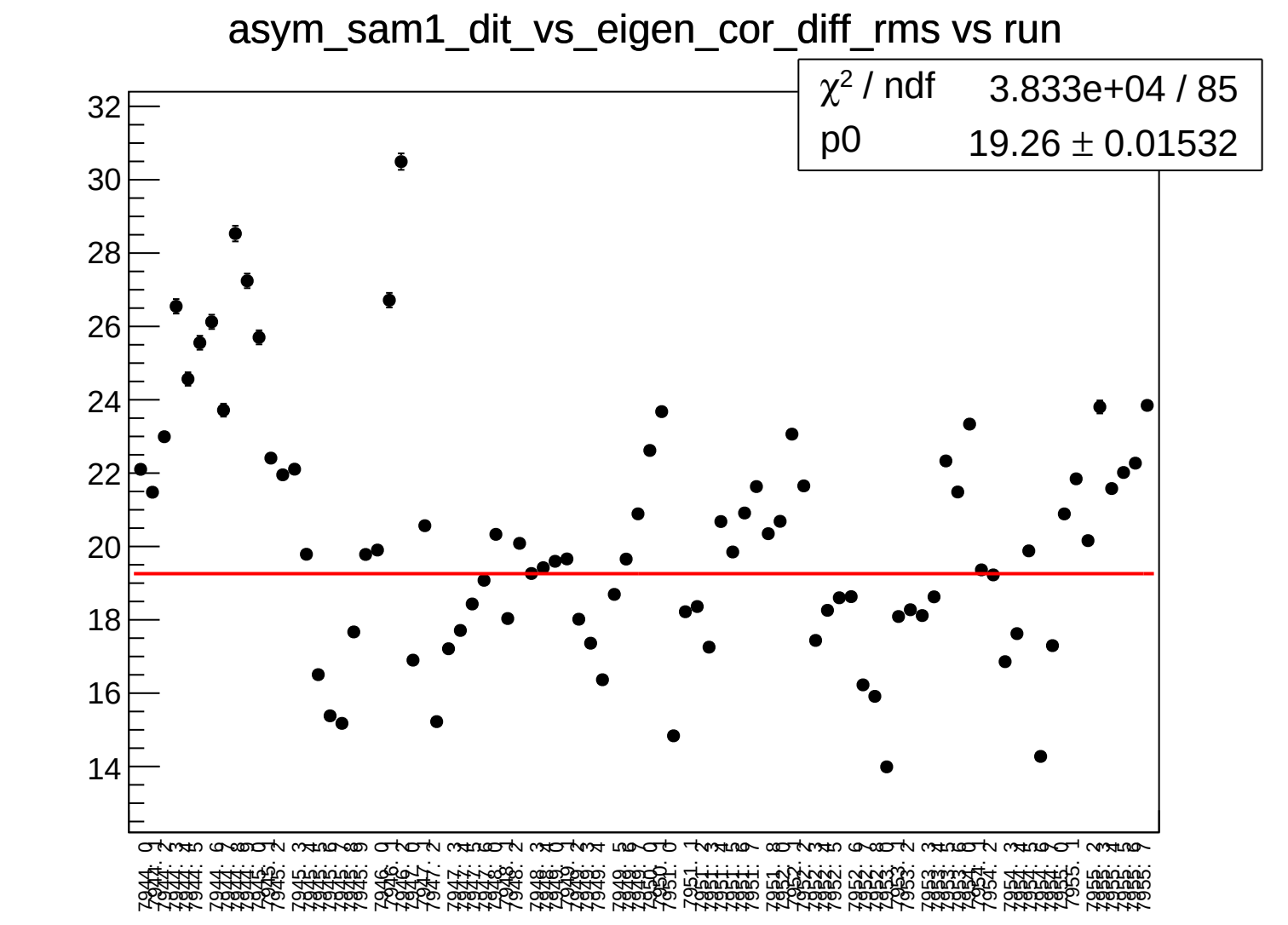

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 74.93 / 85
p0 0.02347 ± 0.02166
pull
Entries 86
Mean −511.2
Std Dev 0

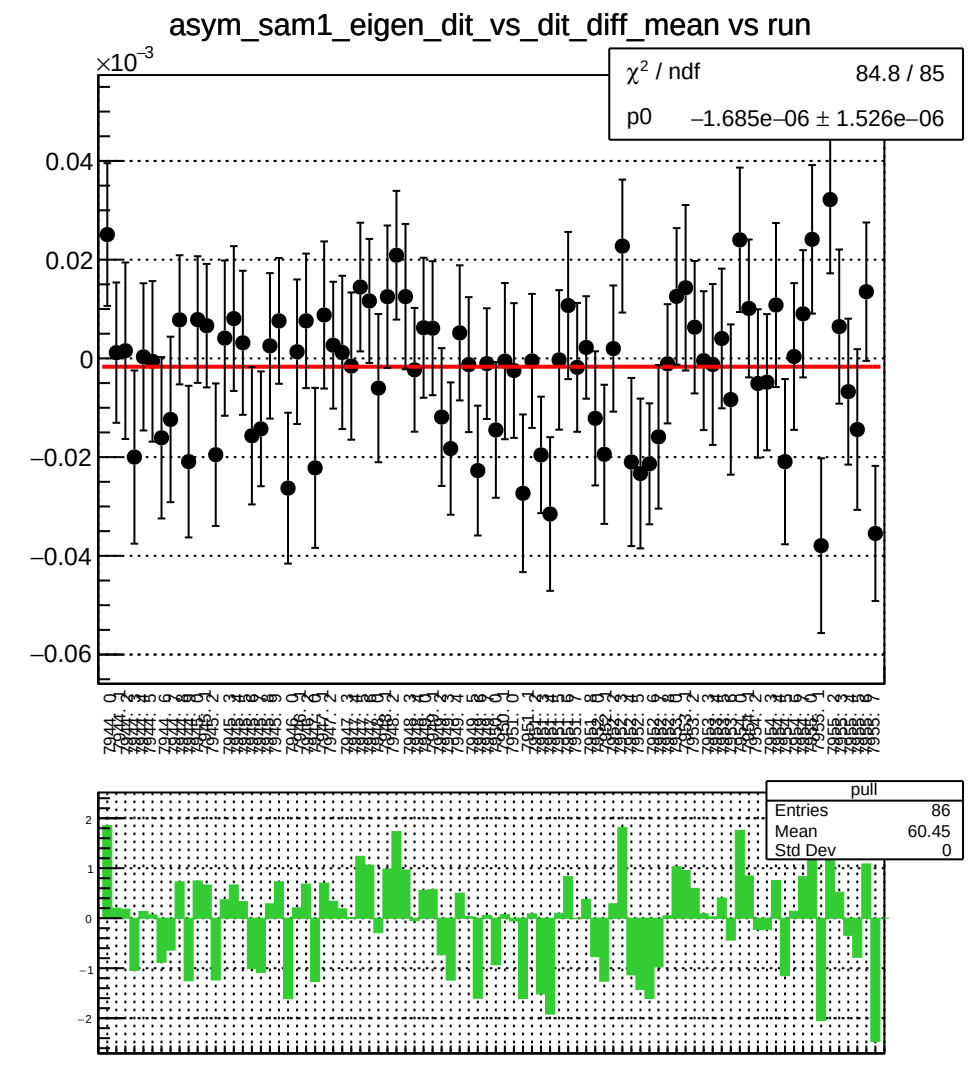

pull1D
Entries 86
Mean 0.003895
Std Dev 0.9334

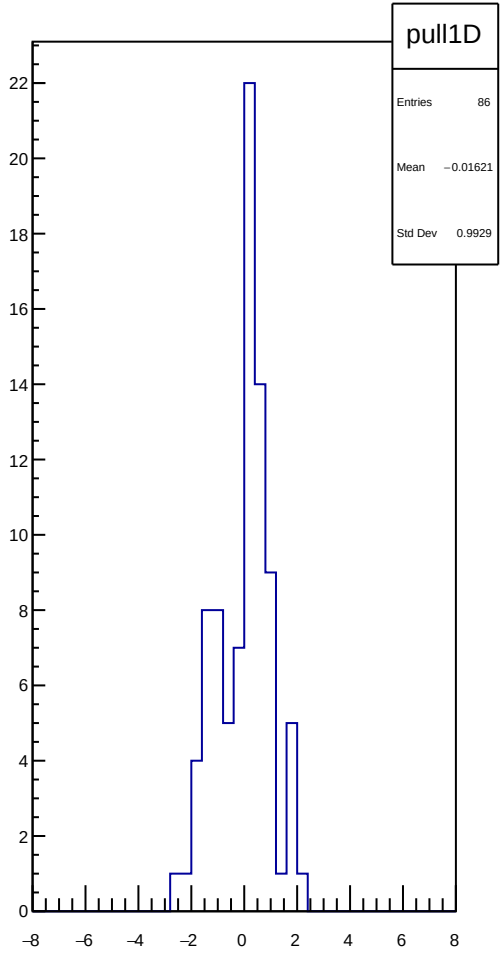

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.833e+04 / 85
p0 19.26 ± 0.01532
32
30
28
26
24
22
20
18
16
14

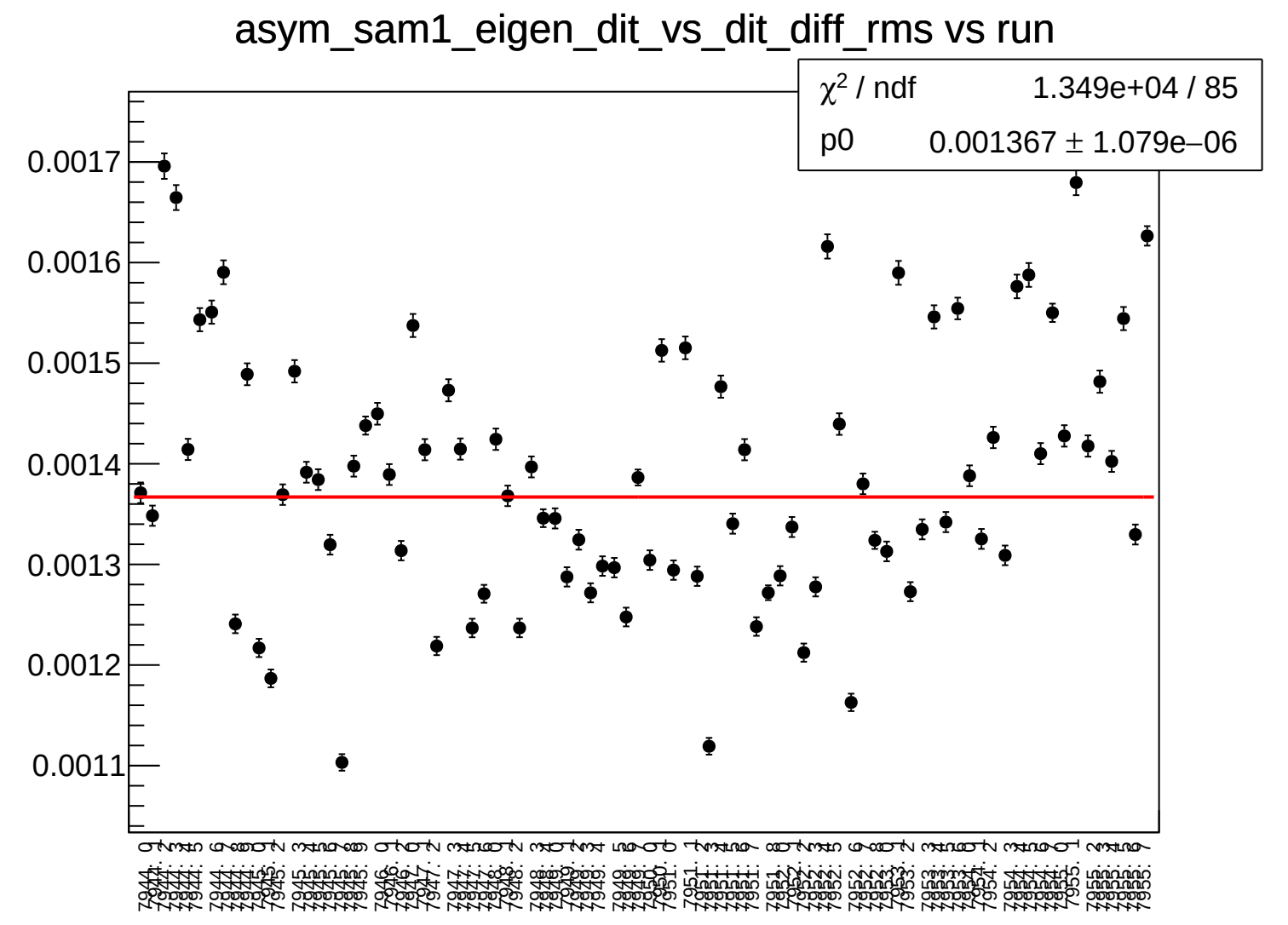

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.93 / 85
p0 0.02347 ± 0.02166
pull
Entries 86
Mean −511.2
Std Dev 0

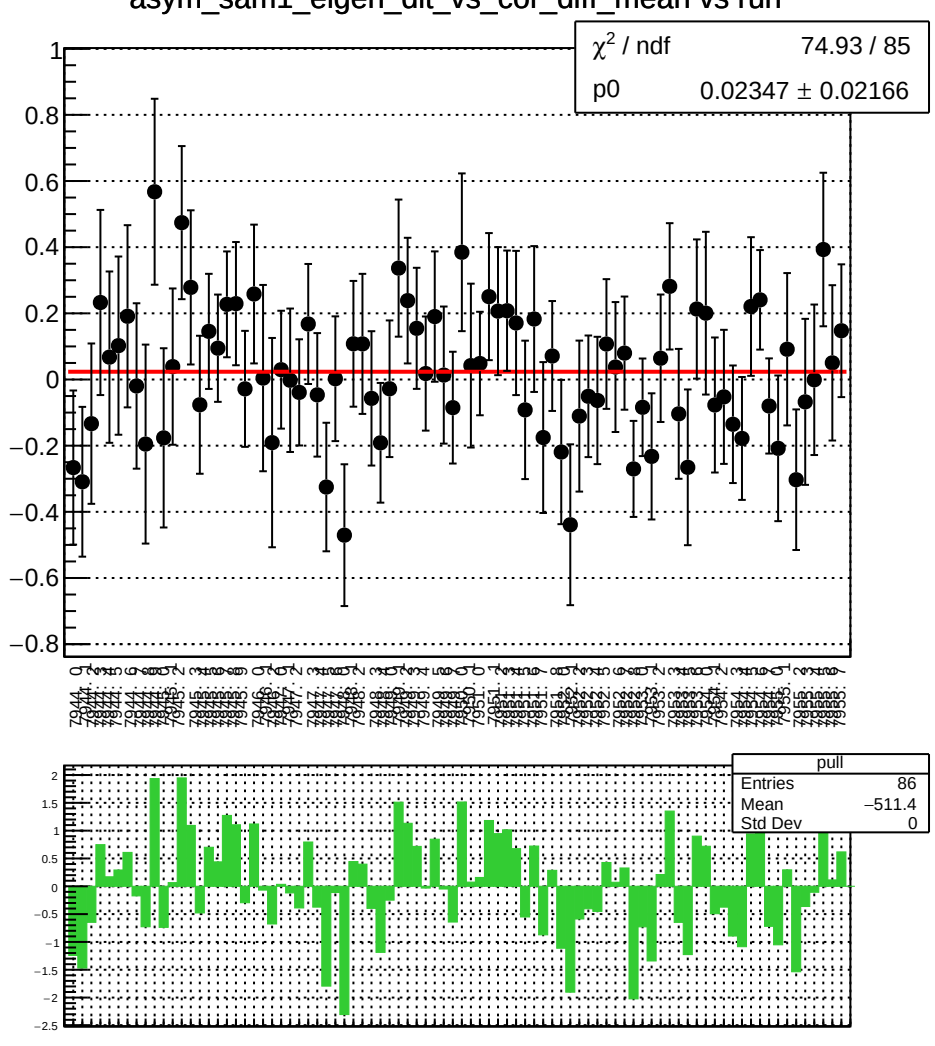

pull1D
Entries 86
Mean 0.003895
Std Dev 0.9334

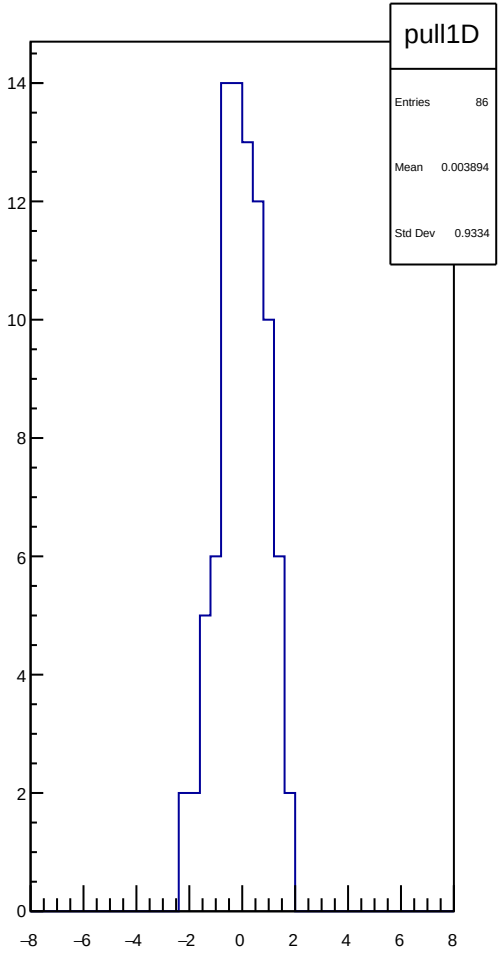

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.833e+04 / 85
p0 19.26 ± 0.01532
32
30
28
26
24
22
20
18
16
14

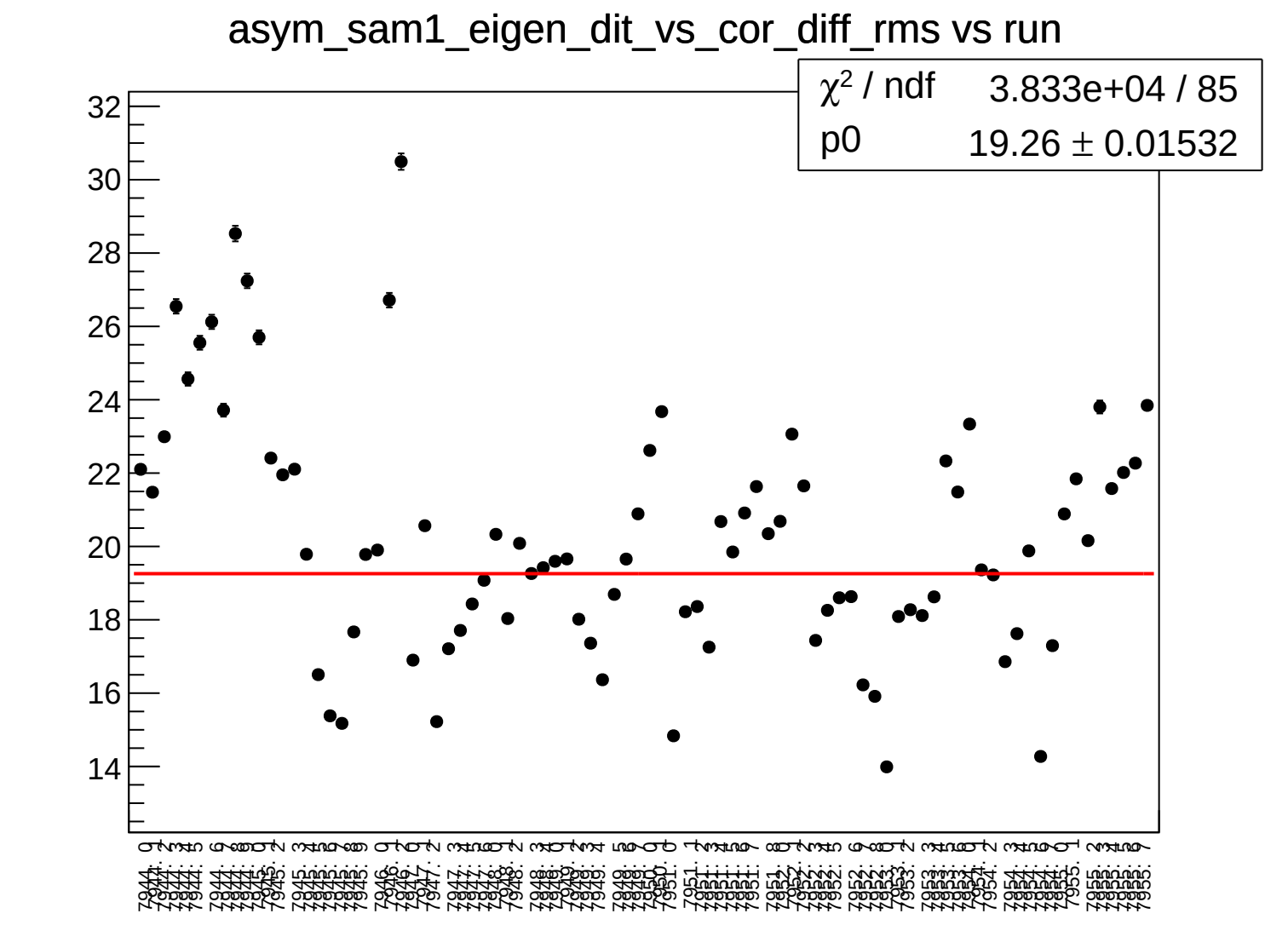

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.8 / 85
p0 −1.685e−06 ± 1.526e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 60.45
Std Dev 0
2
1
0
−1
−2

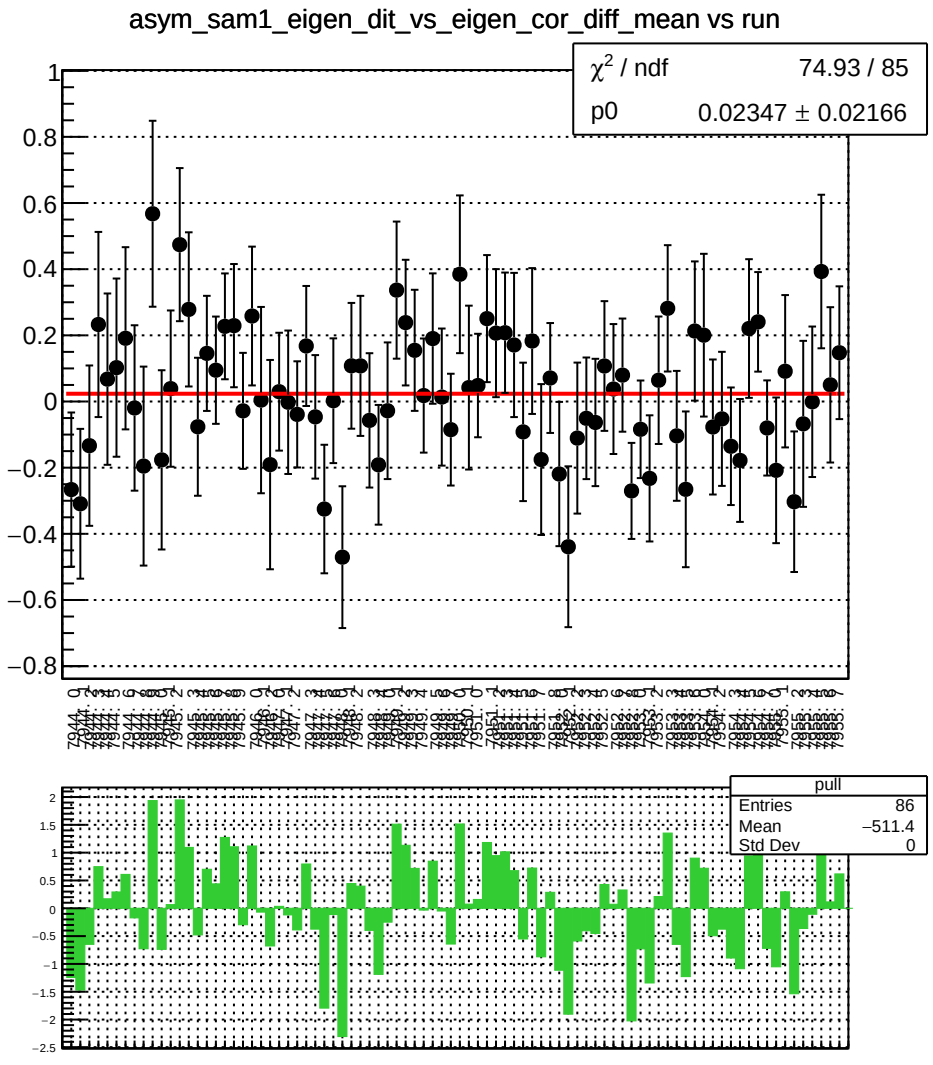

pull1D
Entries 86
Mean −0.01621
Std Dev 0.9929
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

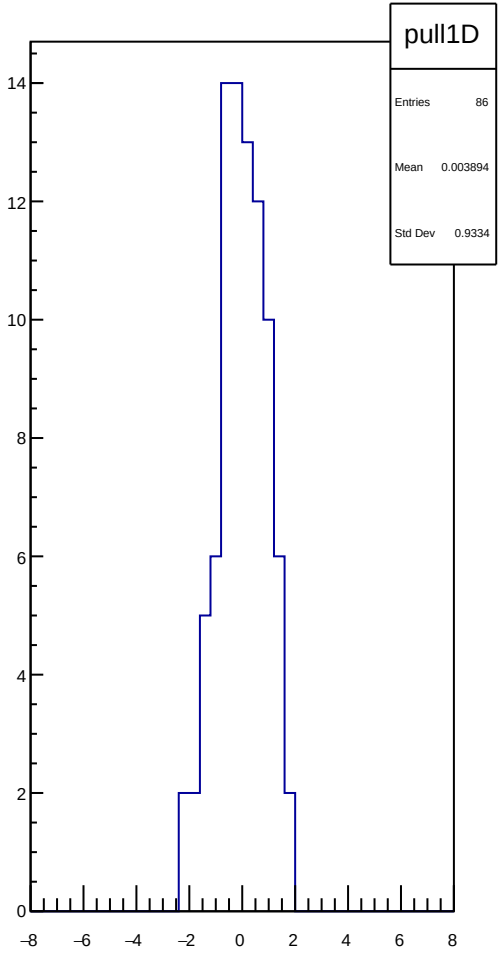

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.349e+04 / 85
p0 0.001367 ± 1.079e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

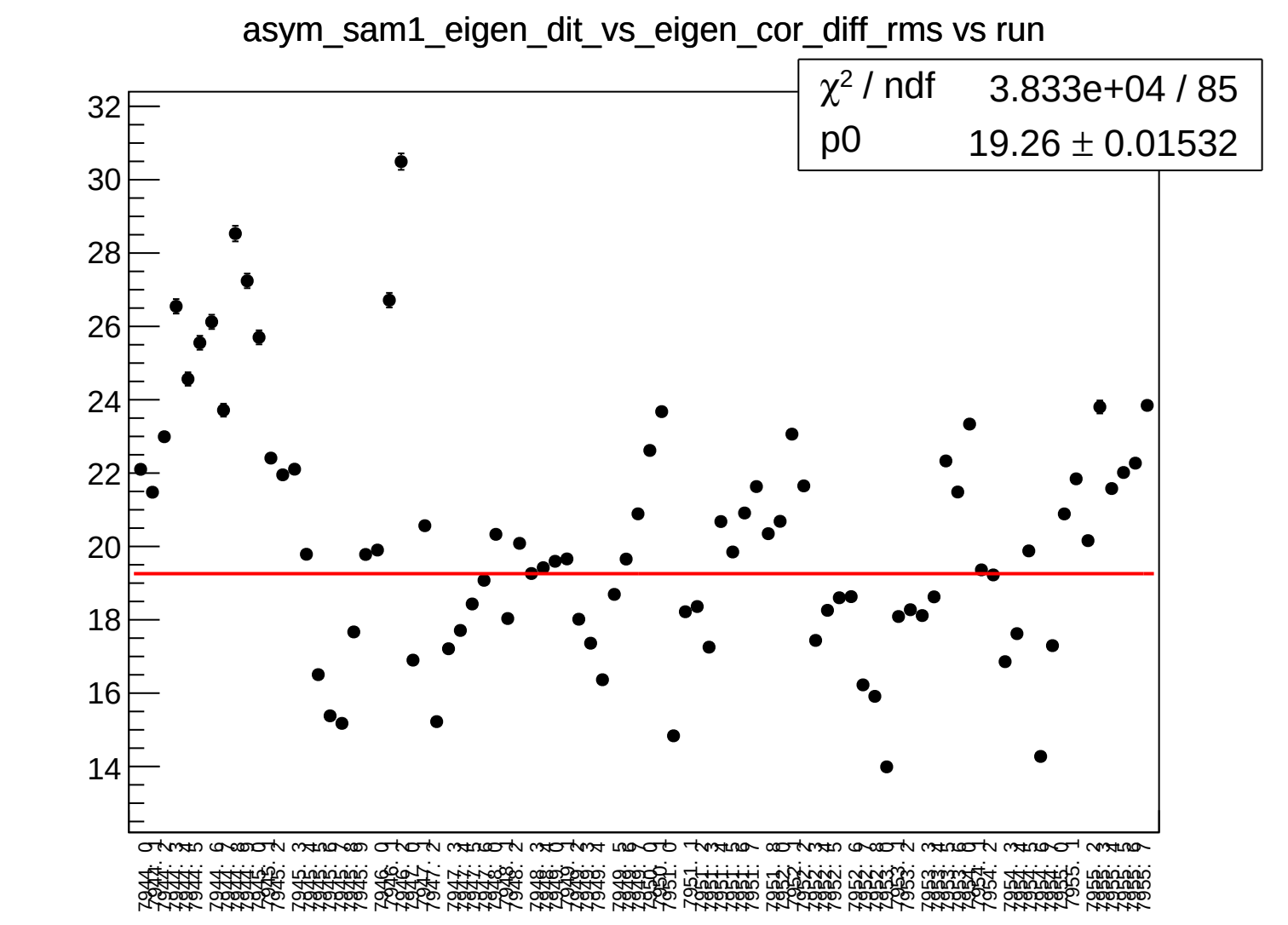

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.93 / 85
p0 0.02347 ± 0.02166
pull
Entries 86
Mean −511.4
Std Dev 0

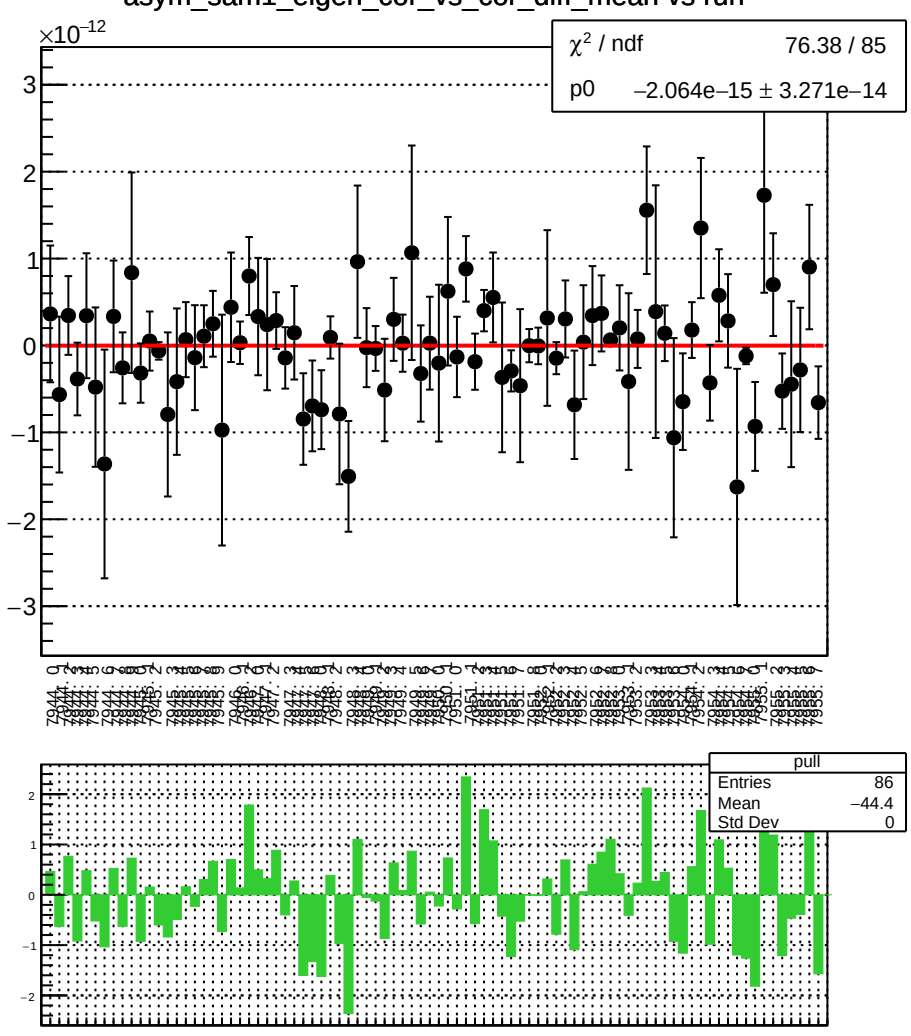

pull1D
Entries 86
Mean 0.003894
Std Dev 0.9334

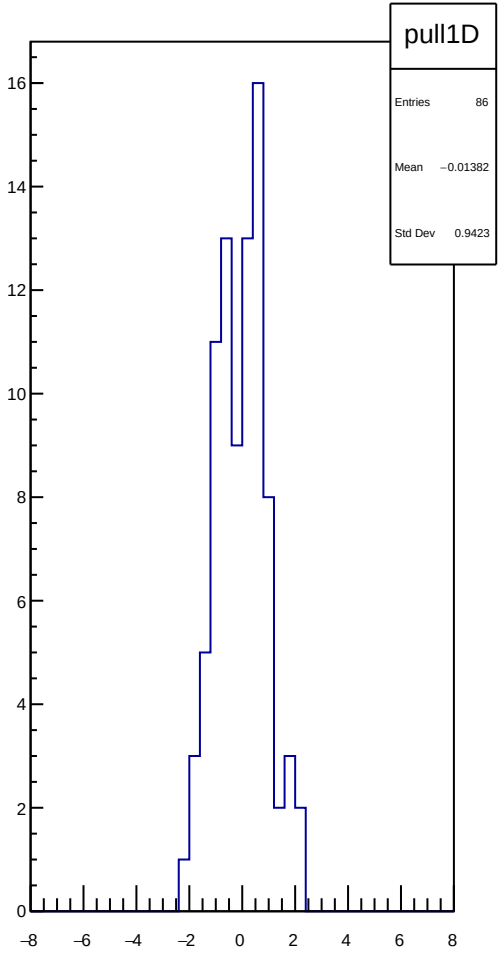

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.833e+04 / 85
p0 19.26 ± 0.01532
32
30
28
26
24
22
20
18
16
14

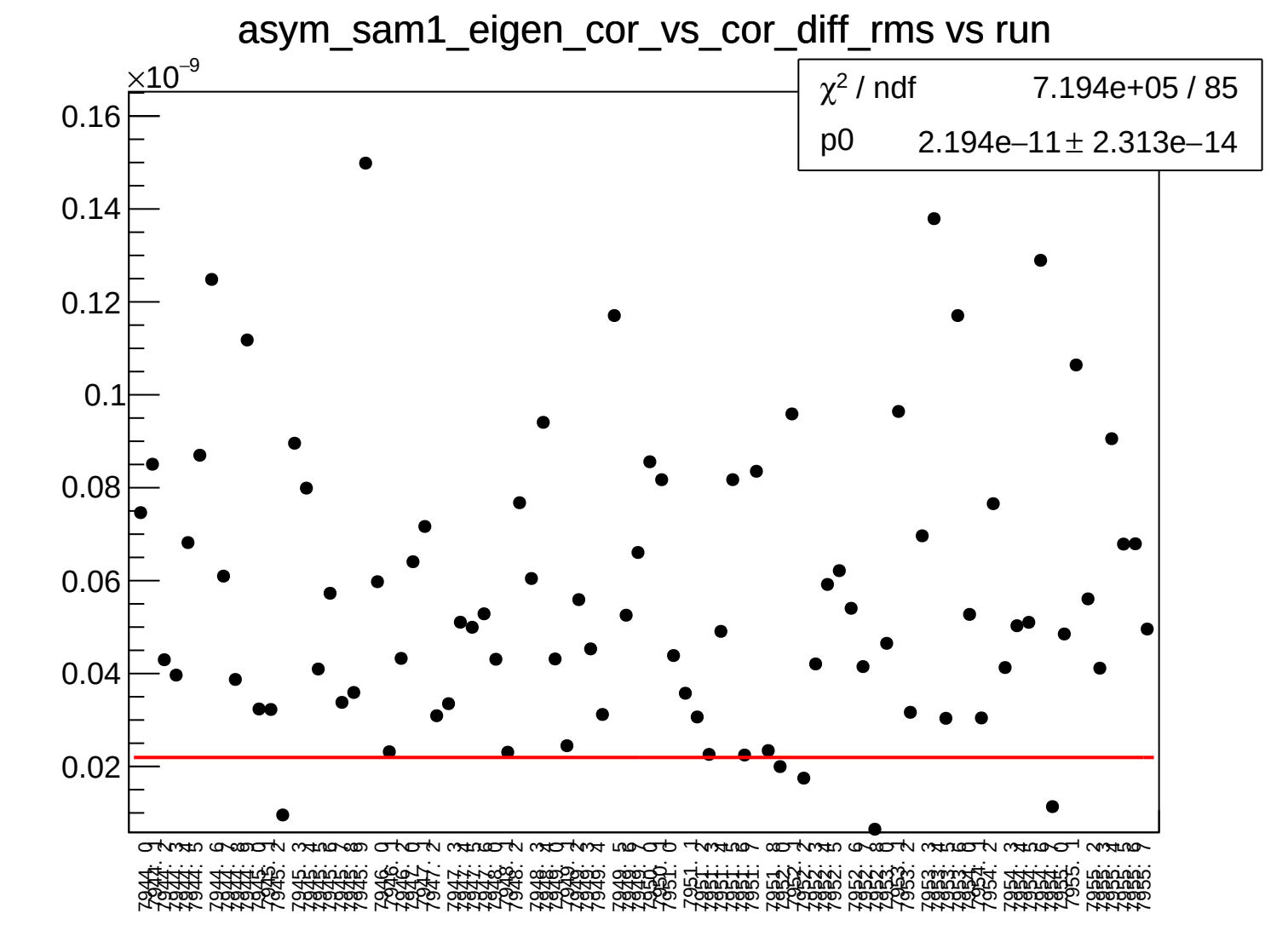

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.93 / 85
p0 0.02347 ± 0.02166
pull
Entries 86
Mean −511.4
Std Dev 0

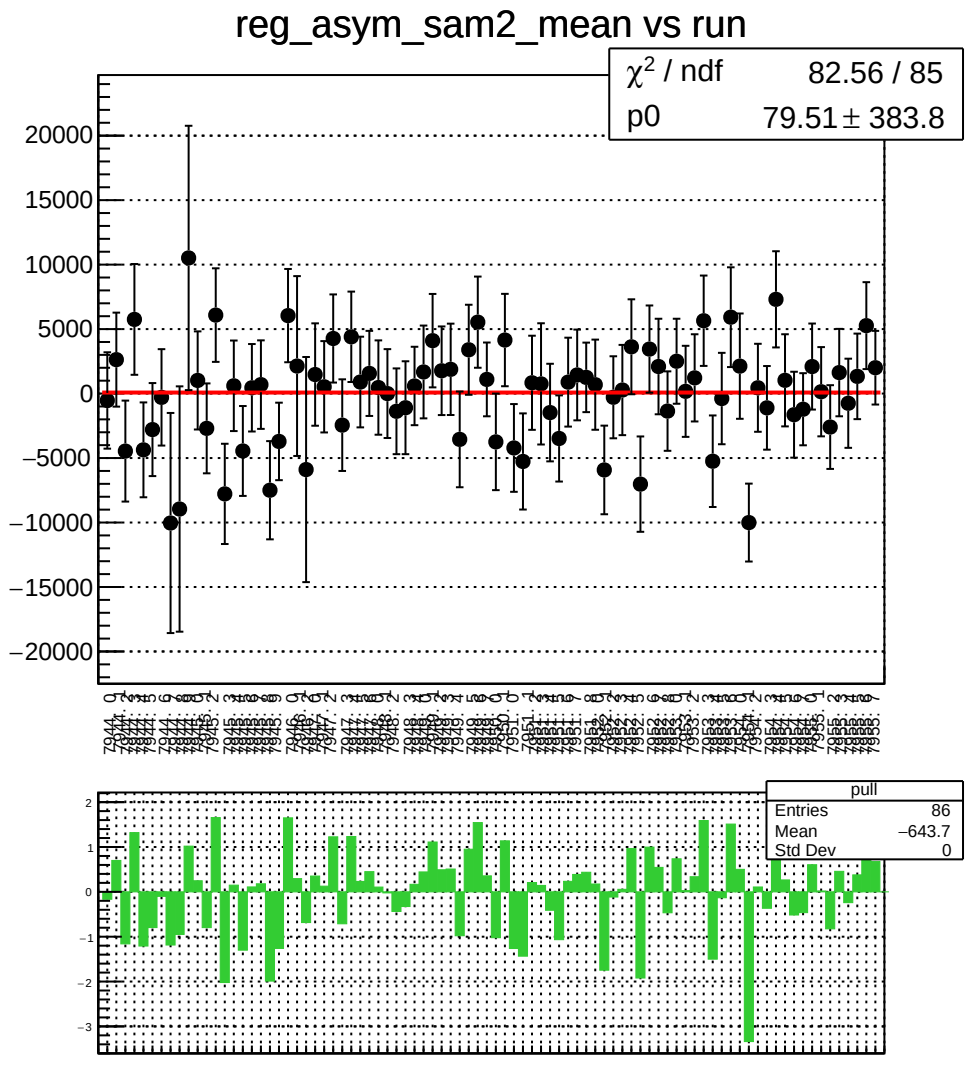

pull1D
Entries 86
Mean 0.003894
Std Dev 0.9334

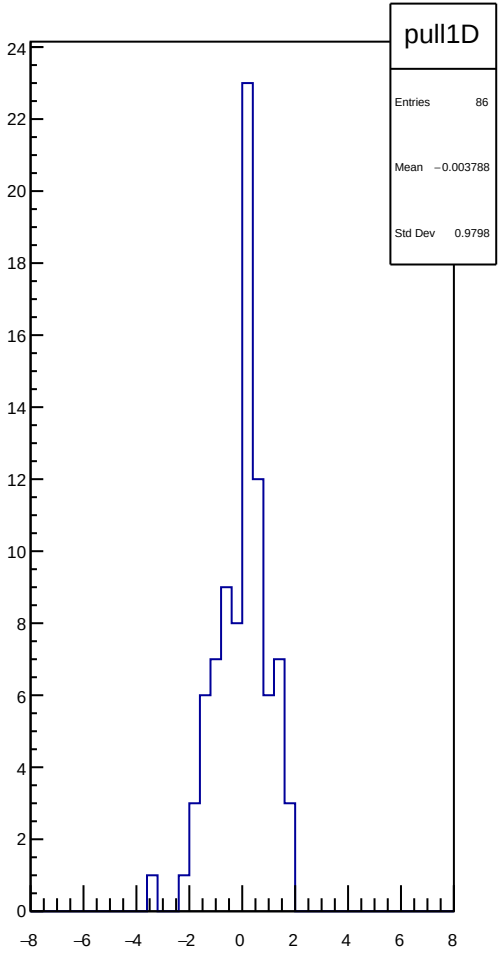

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.833e+04 / 85
p0 19.26 ± 0.01532
32
30
28
26
24
22
20
18
16
14

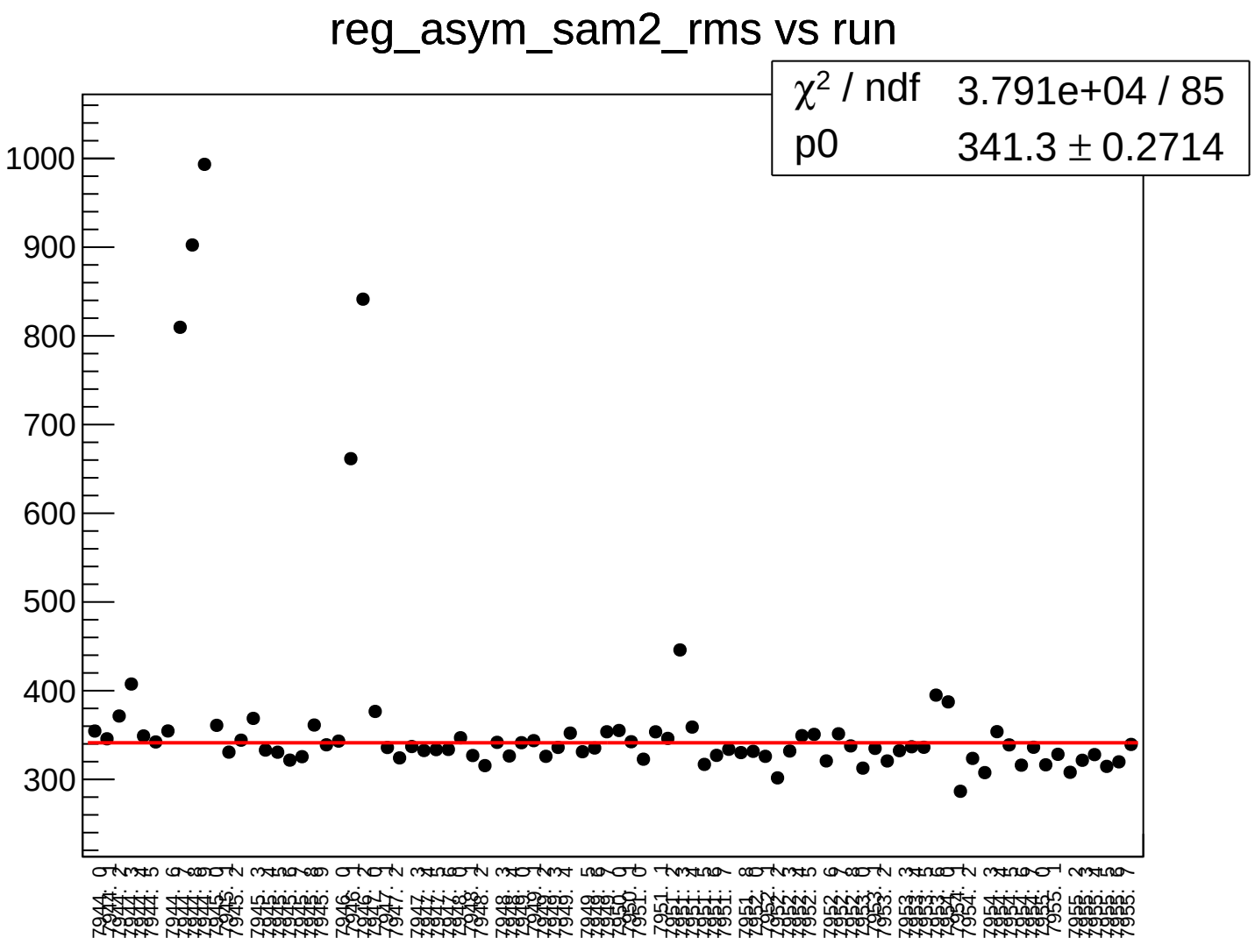

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.38 / 85
p0 −2.064e−15 ± 3.271e−14
pull
Entries 86
Mean −44.4
Std Dev 0

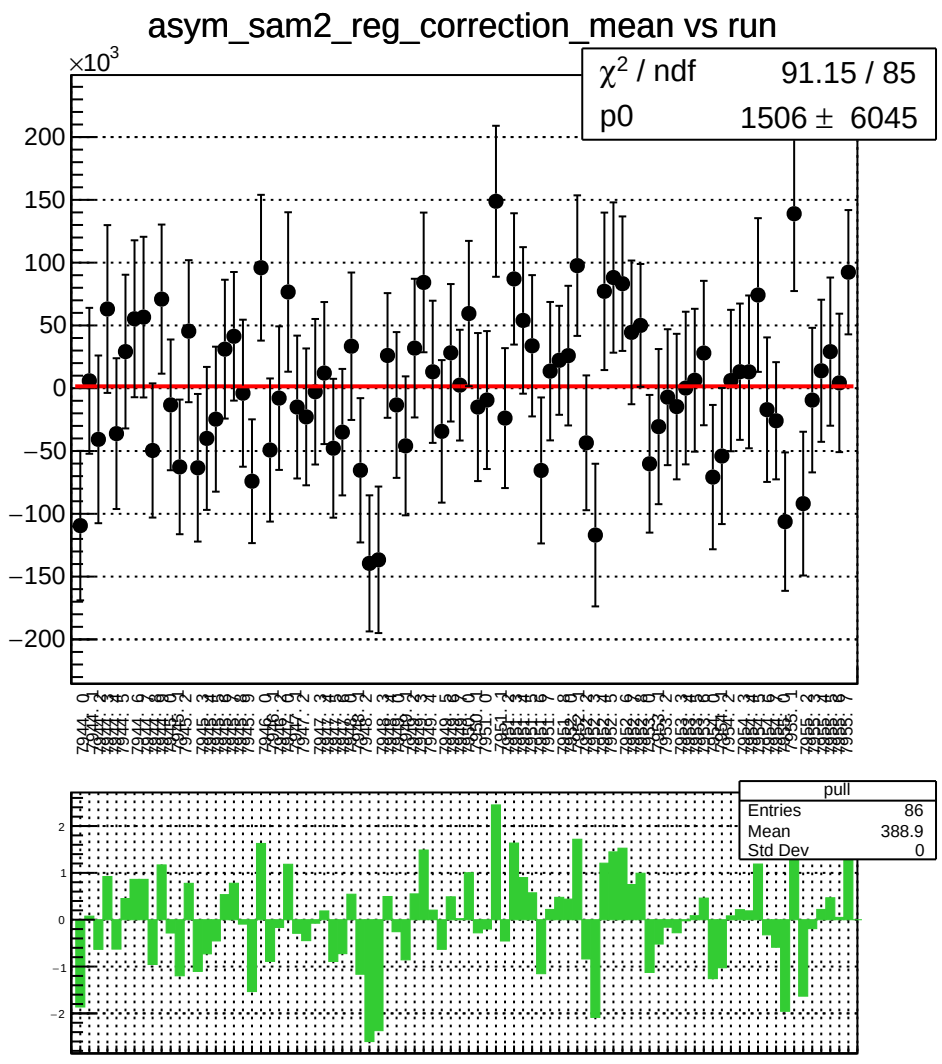

pull1D
Entries 86
Mean −0.01382
Std Dev 0.9423

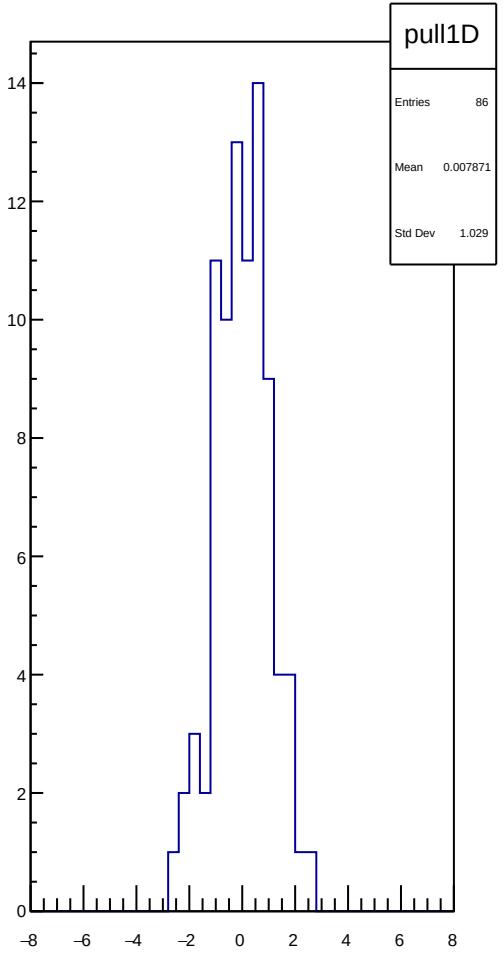

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.194e+05 / 85
p0 2.194e−11 ± 2.313e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

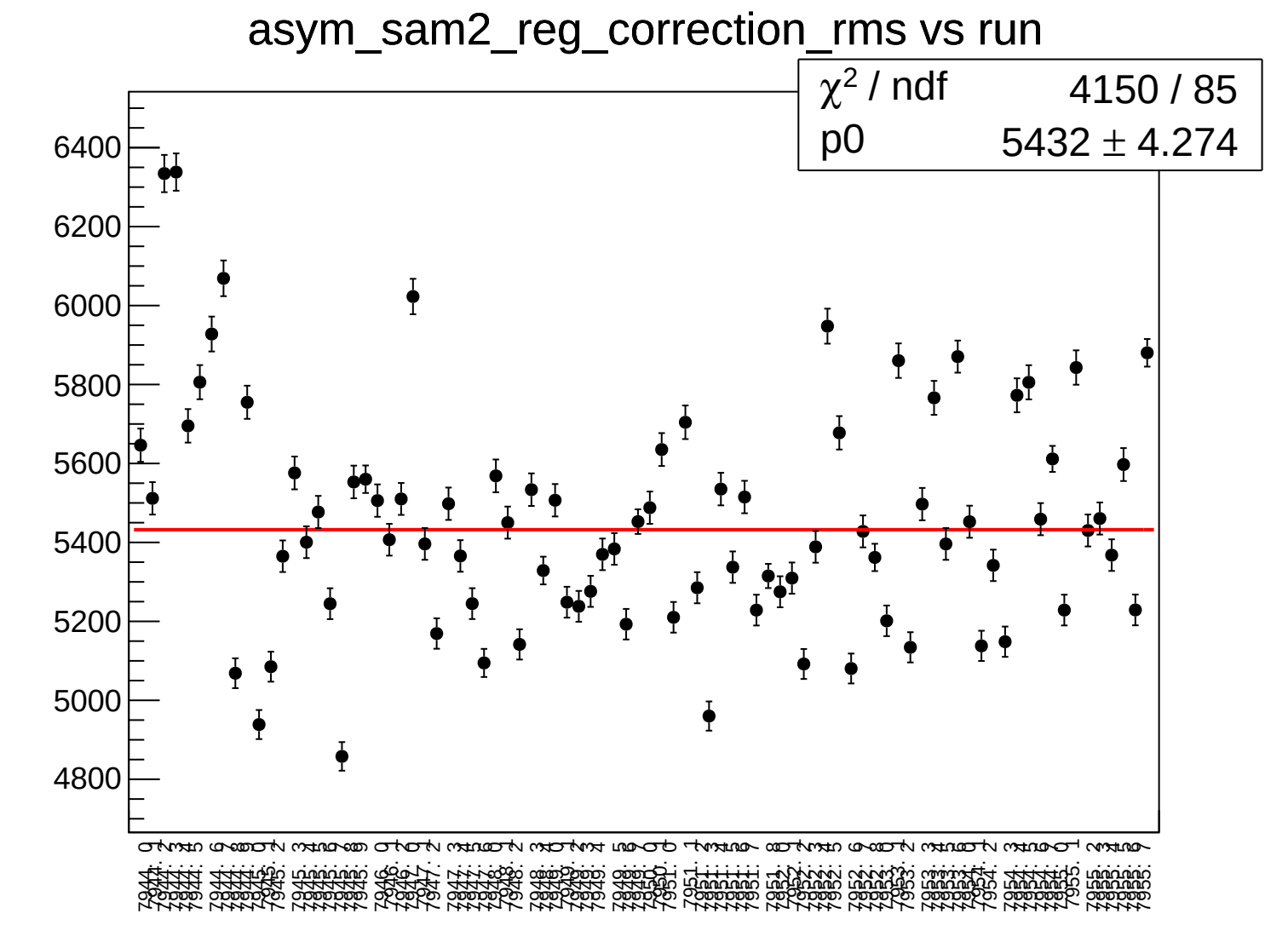

reg_asym_sam2_mean vs run
χ² / ndf 82.56 / 85
p0 79.51 ± 383.8
pull
Entries 86
Mean −643.7
Std Dev 0

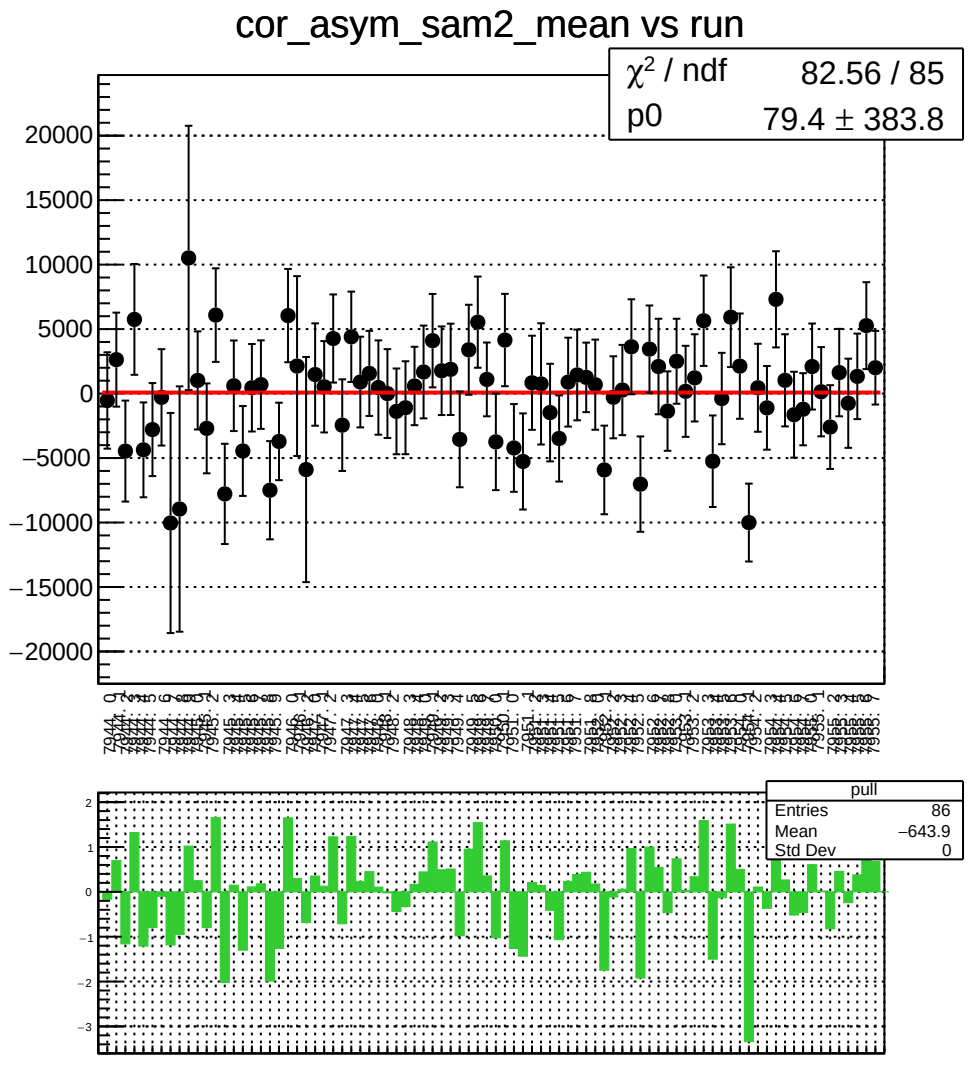

pull1D
Entries 86
Mean −0.003788
Std Dev 0.9798

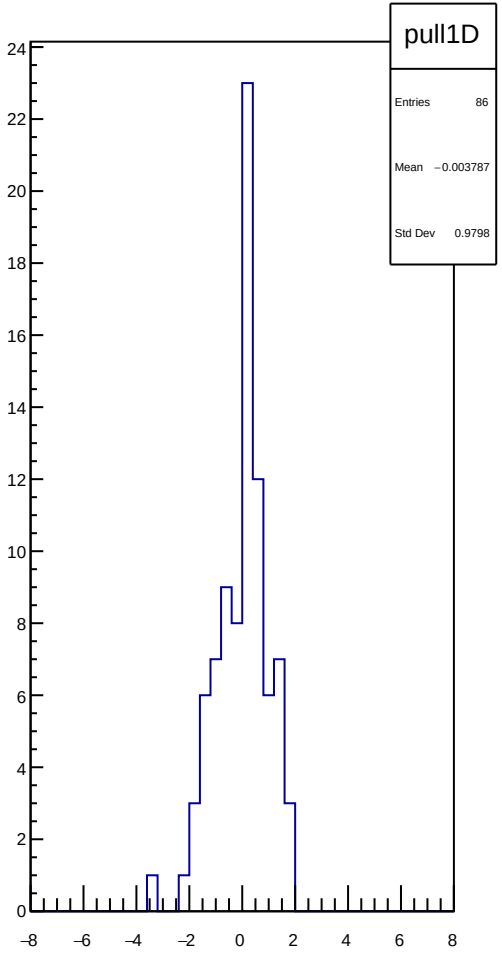

reg_asym_sam2_rms vs run
χ² / ndf 3.791e+04 / 85
p0 341.3 ± 0.2714
1000
900
800
700
600
500
400
300

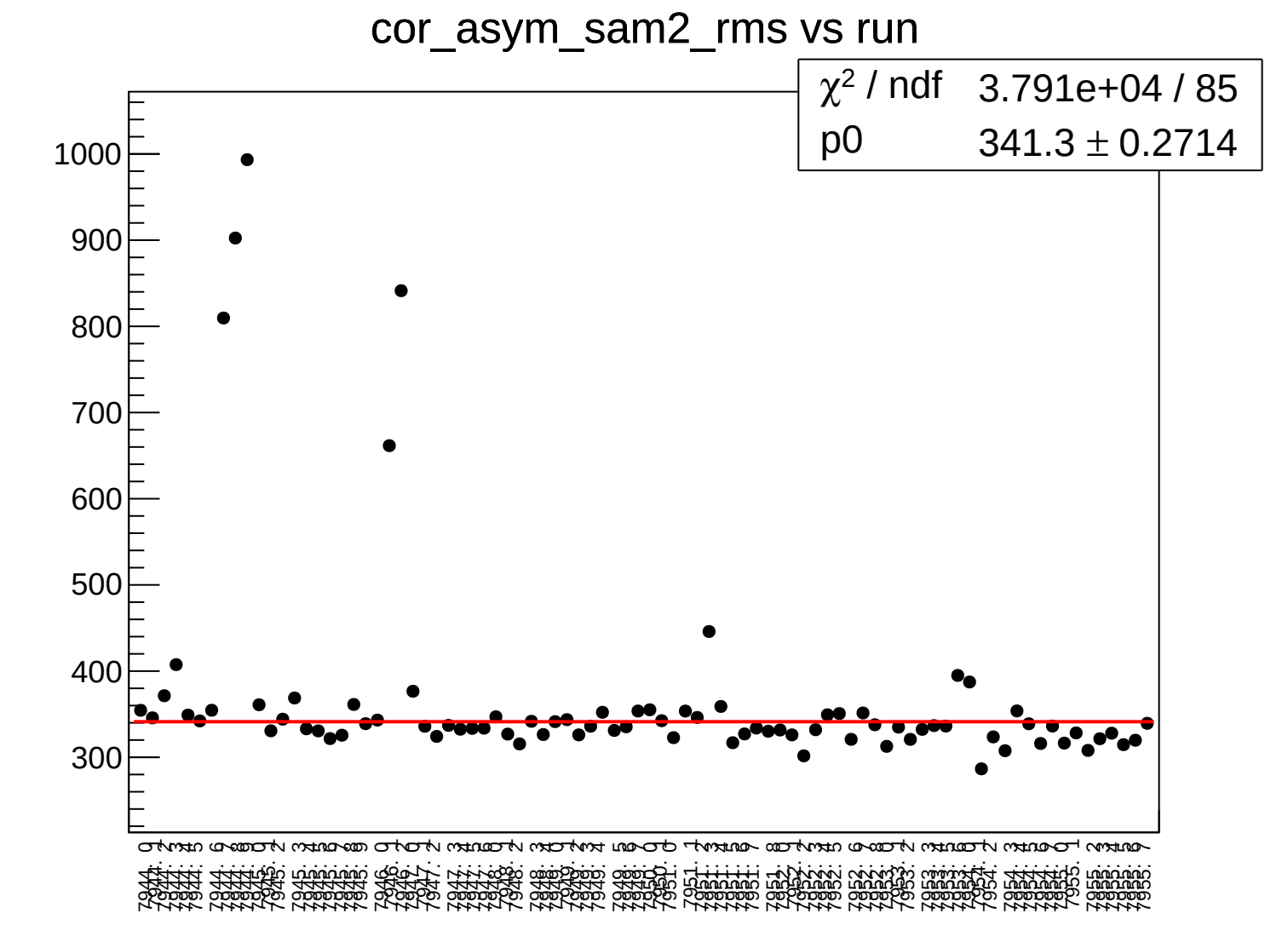

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 91.15 / 85
p0 1506 ± 6045
pull
Entries 86
Mean 388.9
Std Dev 0

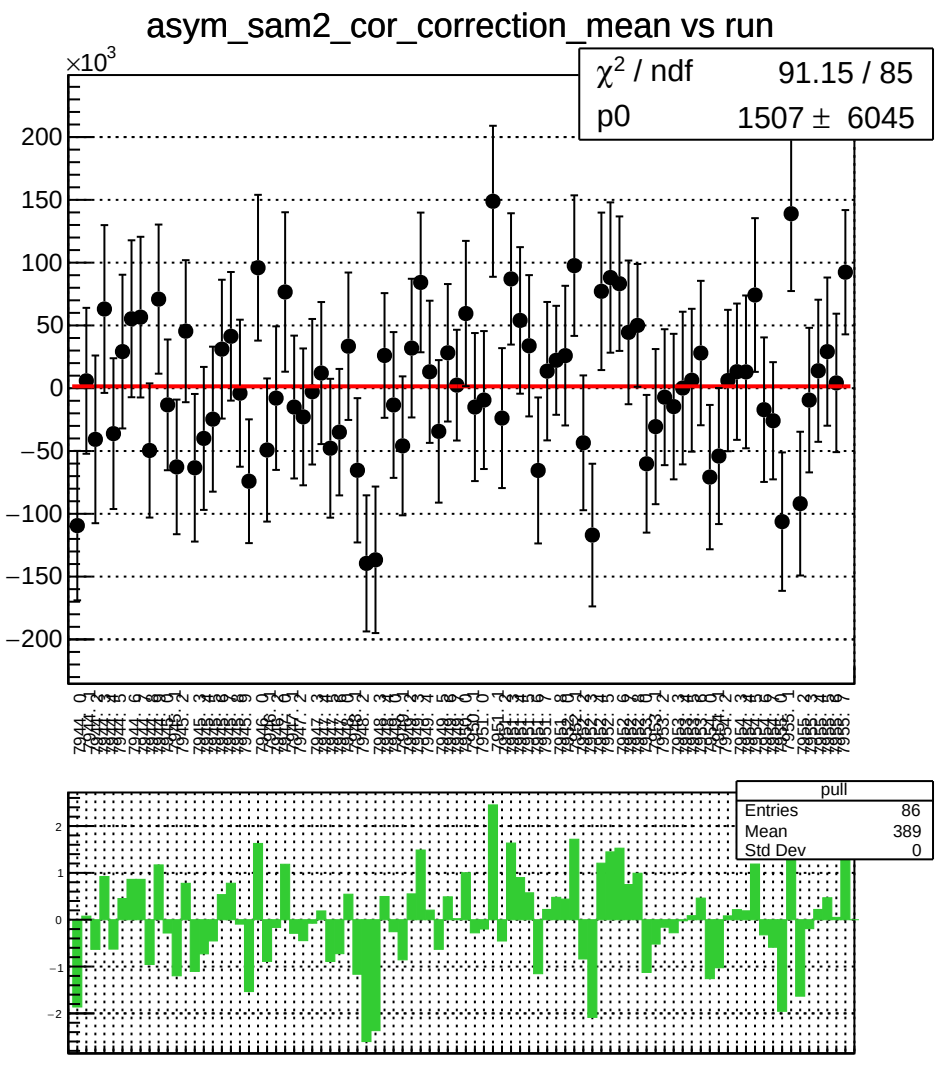

pull1D
Entries 86
Mean 0.007871
Std Dev 1.029

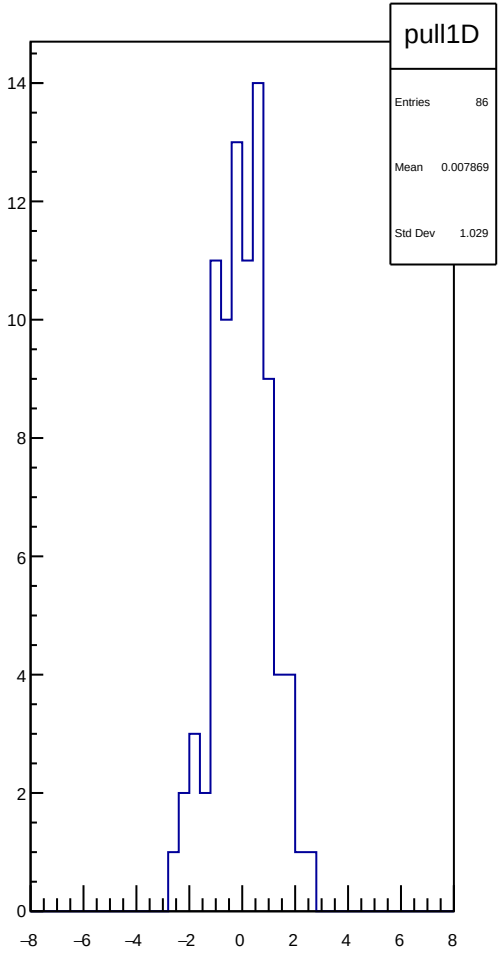

asym_sam2_reg_correction_rms vs run
χ² / ndf 4150 / 85
p0 5432 ± 4.274
6400
6200
6000
5800
5600
5400
5200
5000
4800

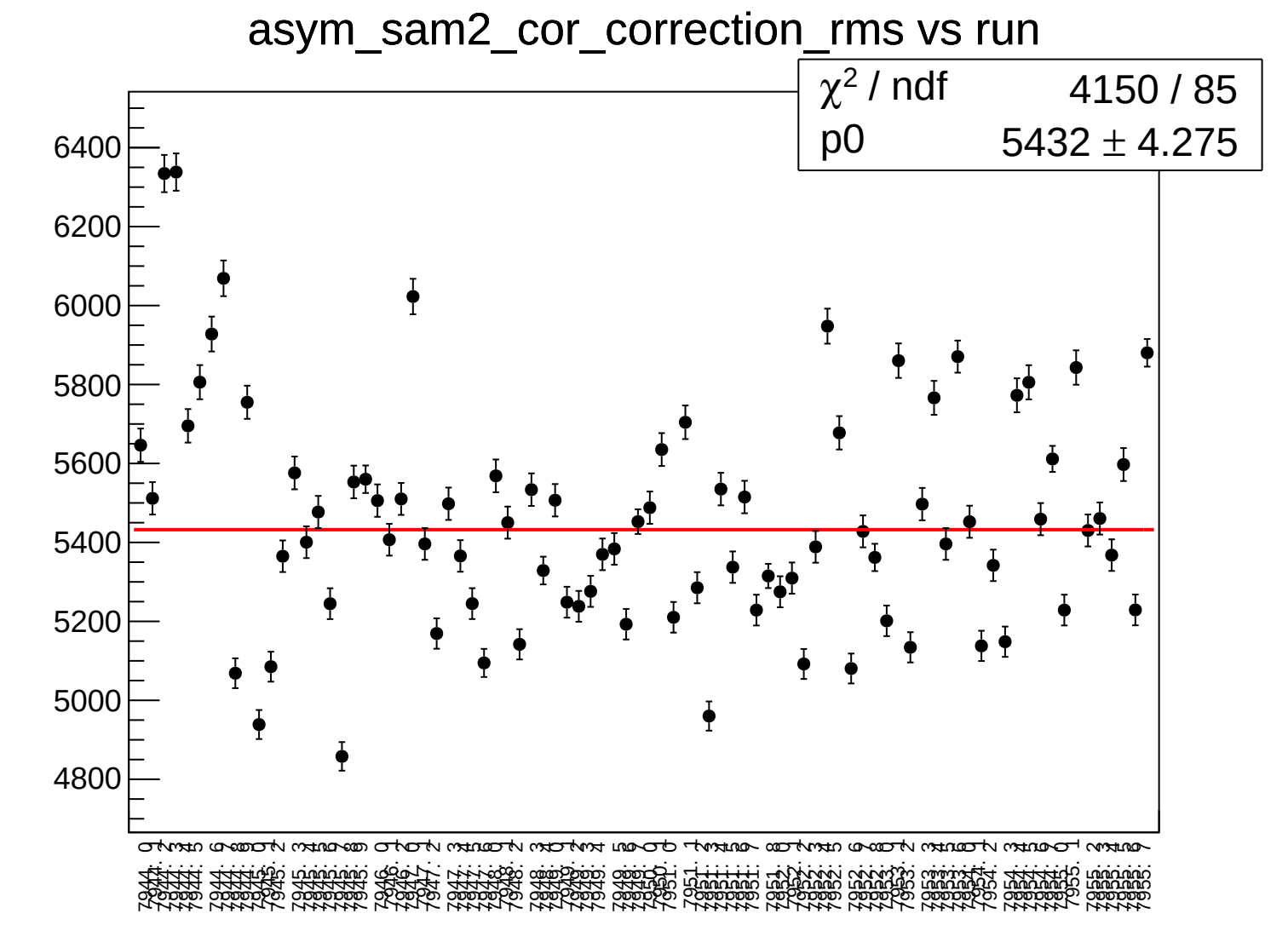

cor_asym_sam2_mean vs run
χ² / ndf 82.56 / 85
p0 79.4 ± 383.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −643.9
Std Dev 0
2
1
0
−1
−2
−3

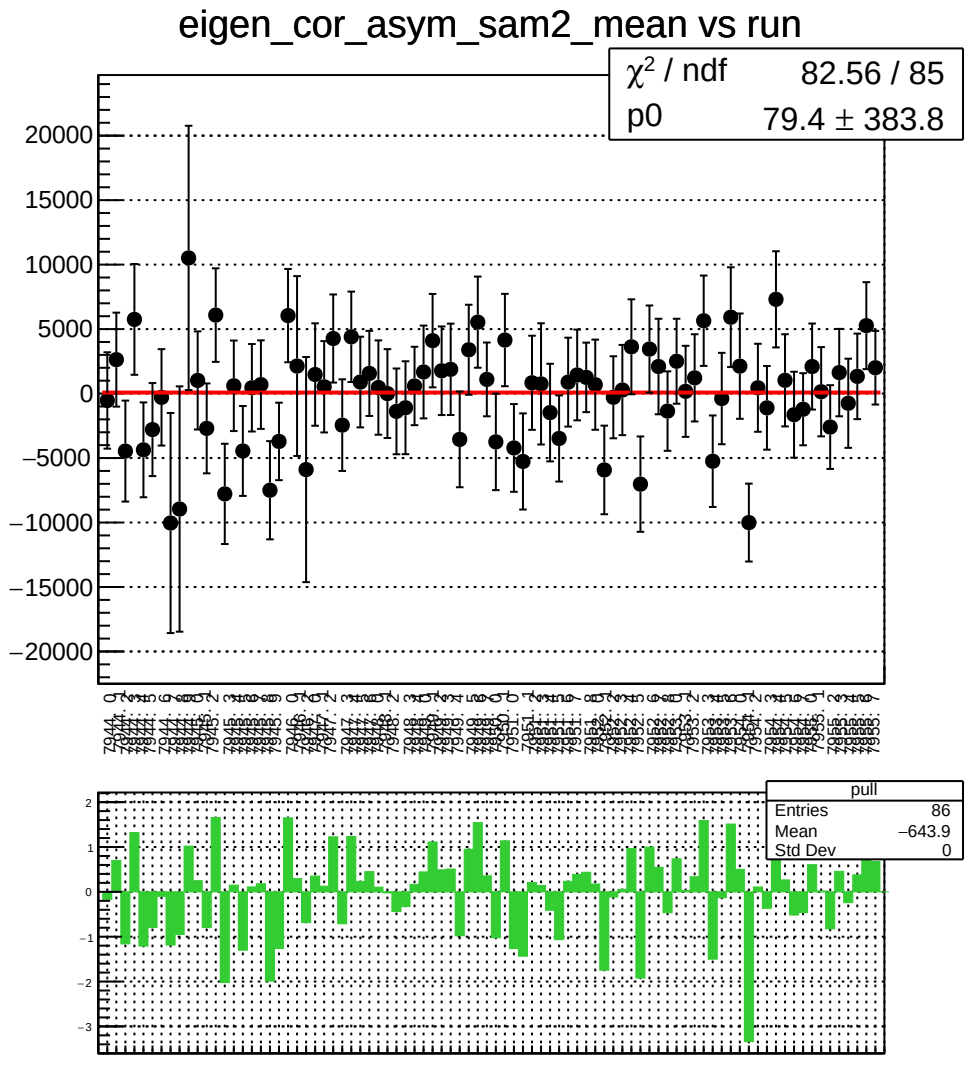

pull1D
Entries 86
Mean −0.003787
Std Dev 0.9798
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

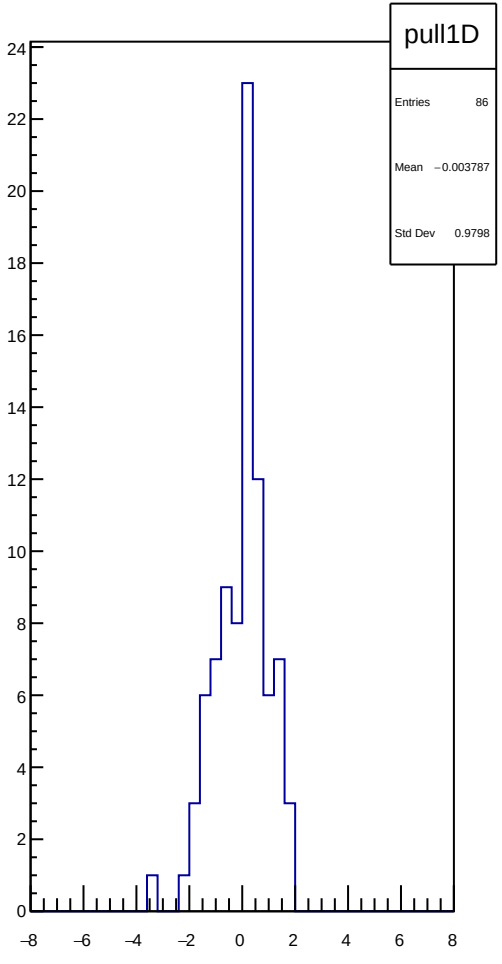

cor_asym_sam2_rms vs run
χ² / ndf 3.791e+04 / 85
p0 341.3 ± 0.2714
1000
900
800
700
600
500
400
300

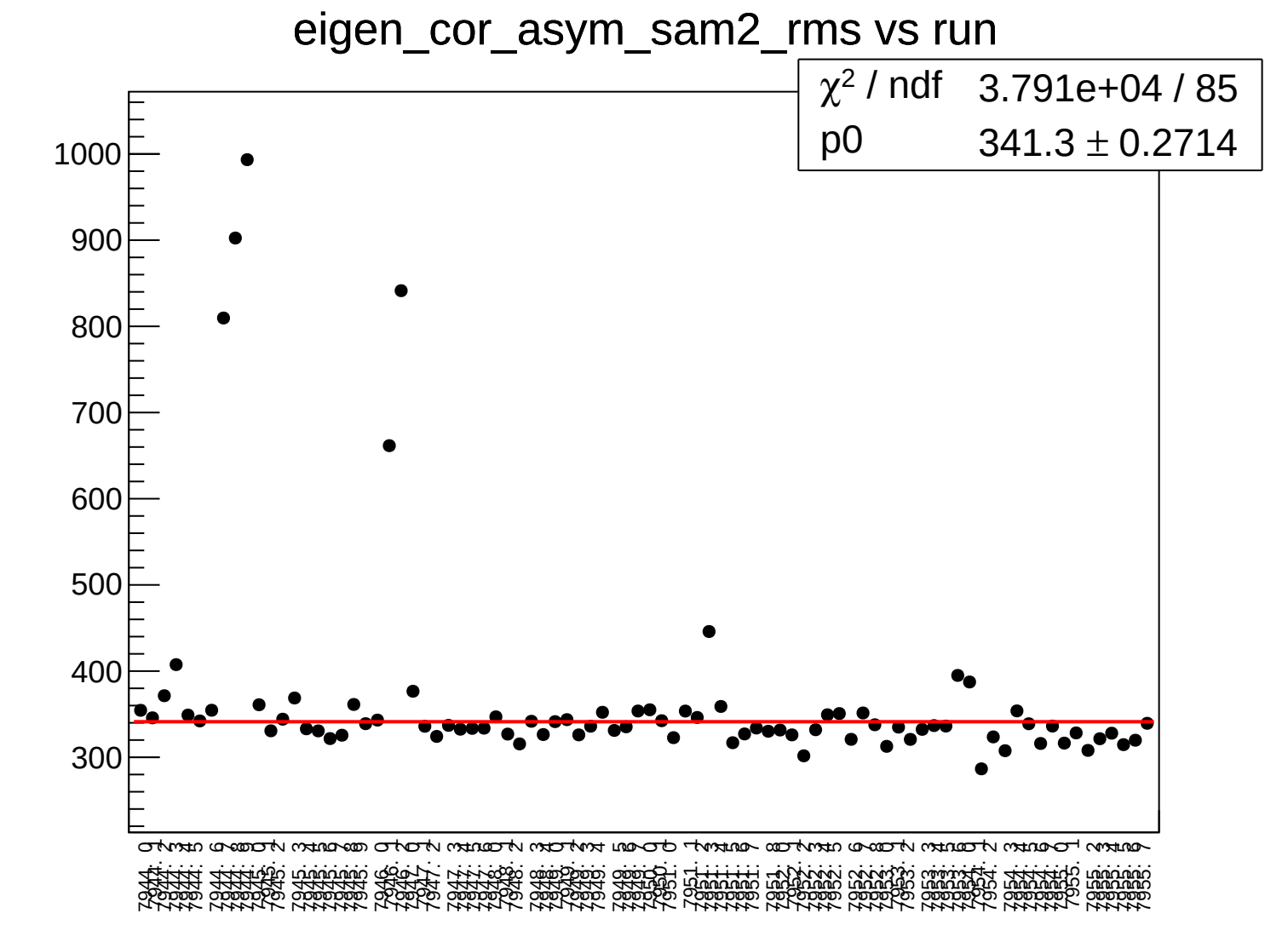

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 91.15 / 85
p0 1507 ± 6045
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 389
Std Dev 0
2
1
0
−1
−2

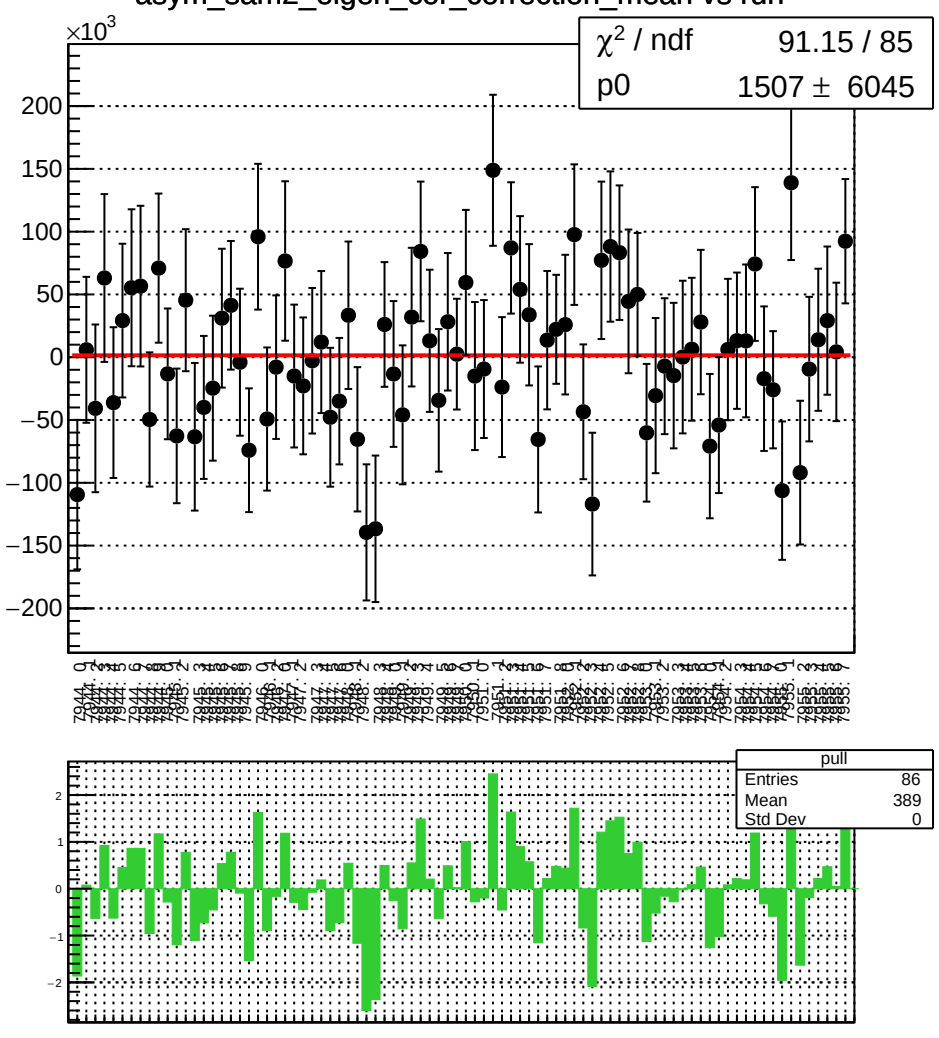

pull1D
Entries 86
Mean 0.007869
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

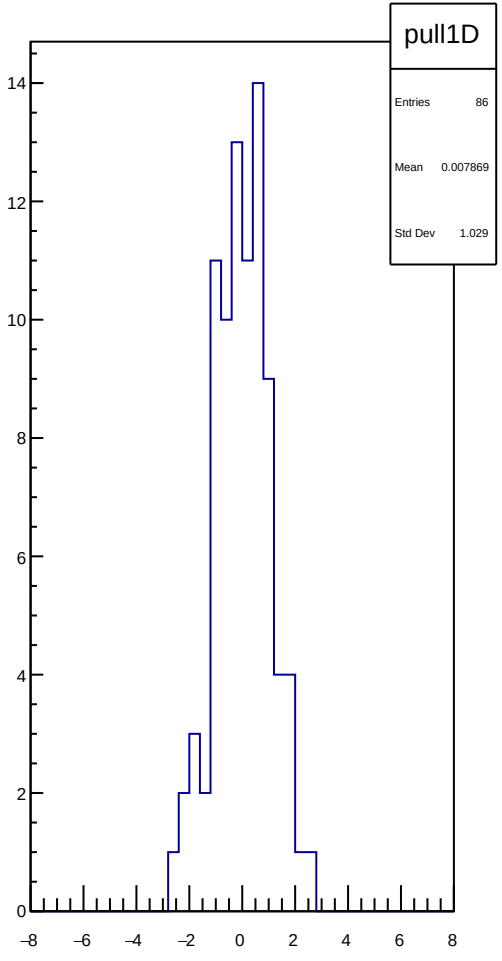

asym_sam2_cor_correction_rms vs run
χ² / ndf 4150 / 85
p0 5432 ± 4.275
6400
6200
6000
5800
5600
5400
5200
5000
4800

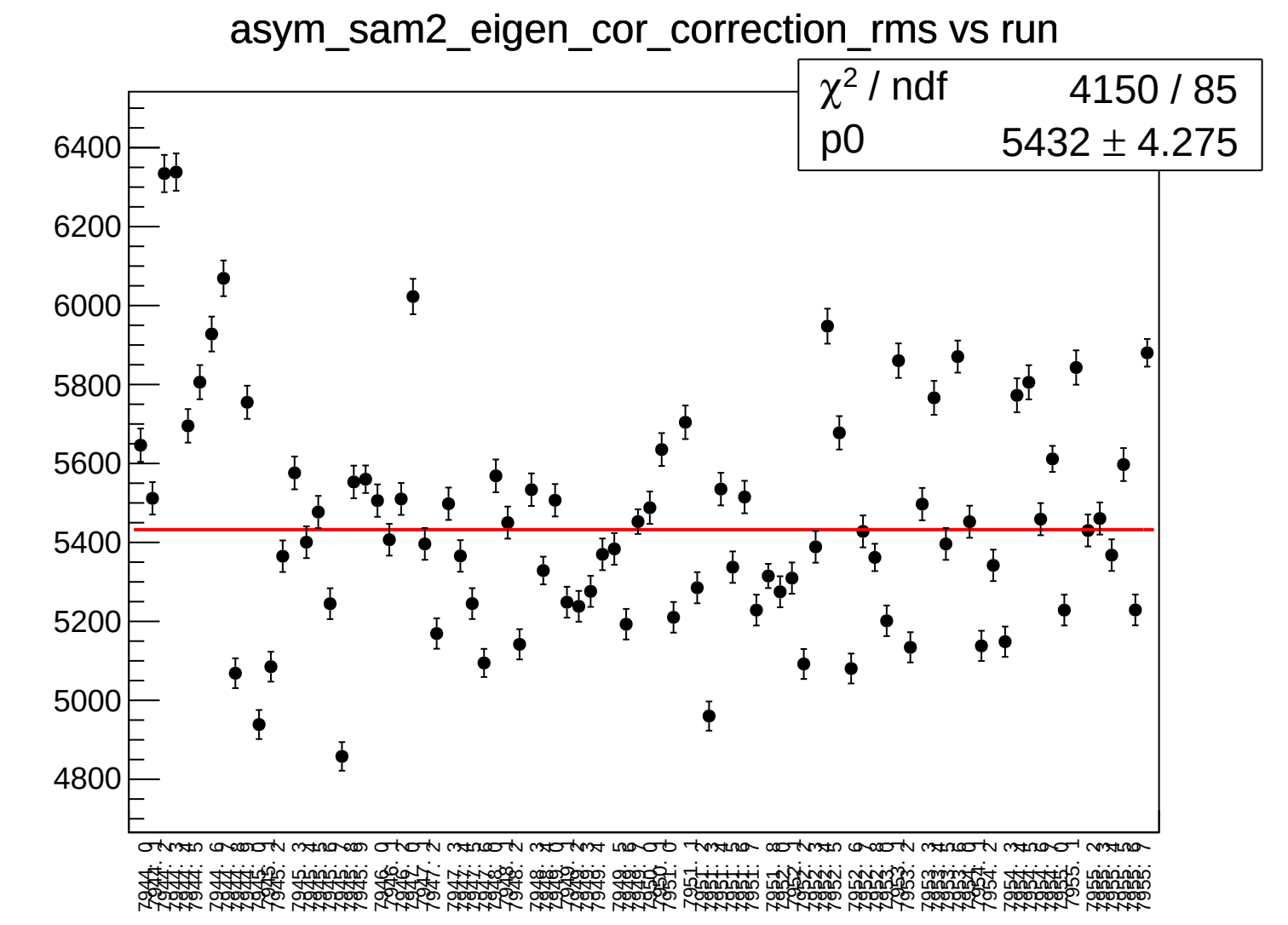

eigen_cor_asym_sam2_mean vs run
χ² / ndf 82.56 / 85
p0 79.4 ± 383.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −643.9
Std Dev 0
2
1
0
−1
−2
−3

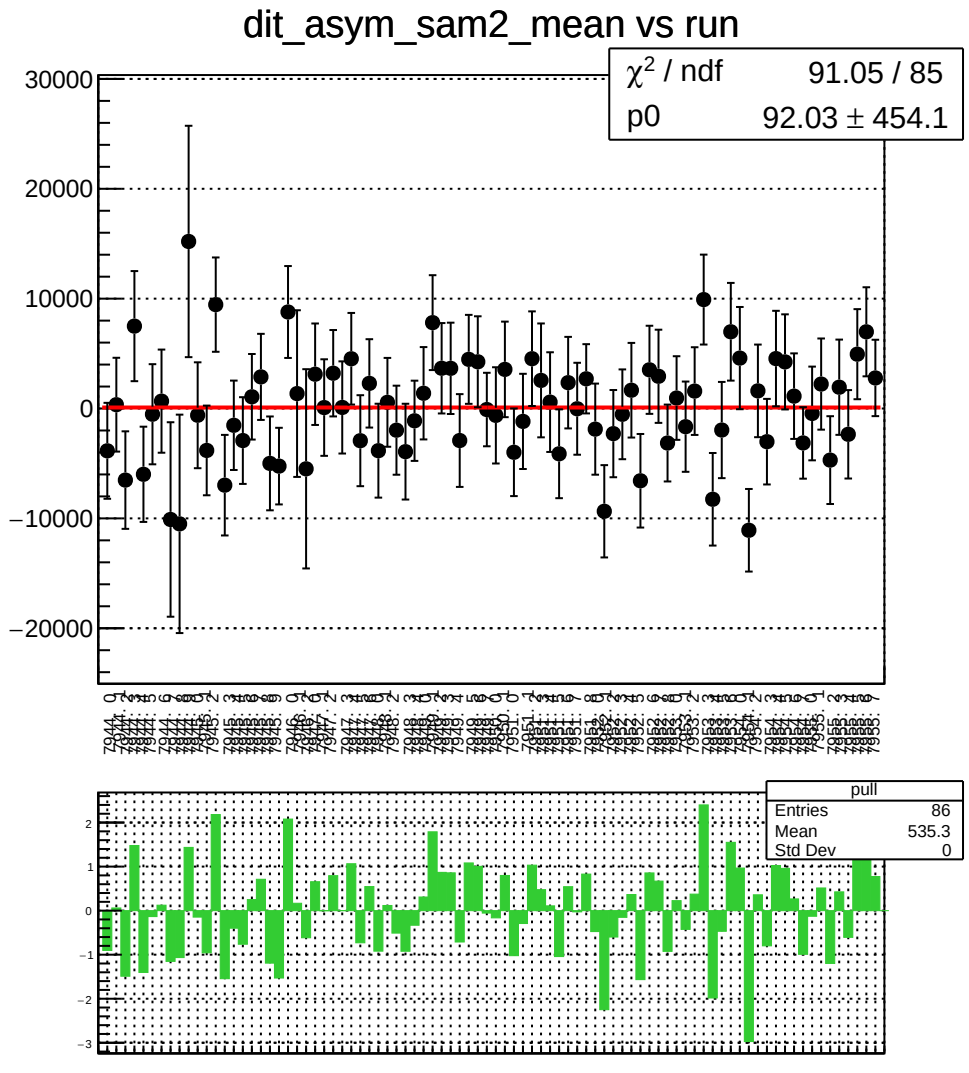

pull1D
Entries 86
Mean −0.003787
Std Dev 0.9798
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

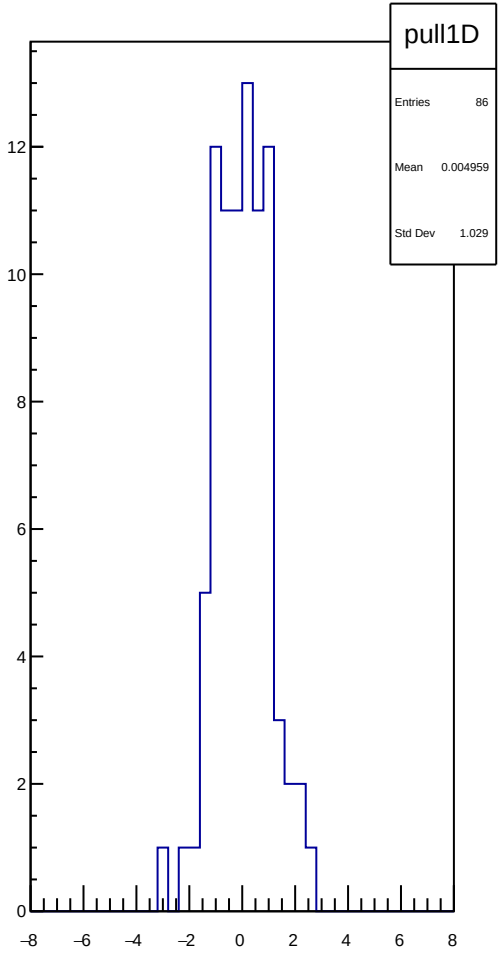

eigen_cor_asym_sam2_rms vs run
χ^2 / ndf 3.791e+04 / 85
p0 341.3 ± 0.2714
1000
900
800
700
600
500
400
300

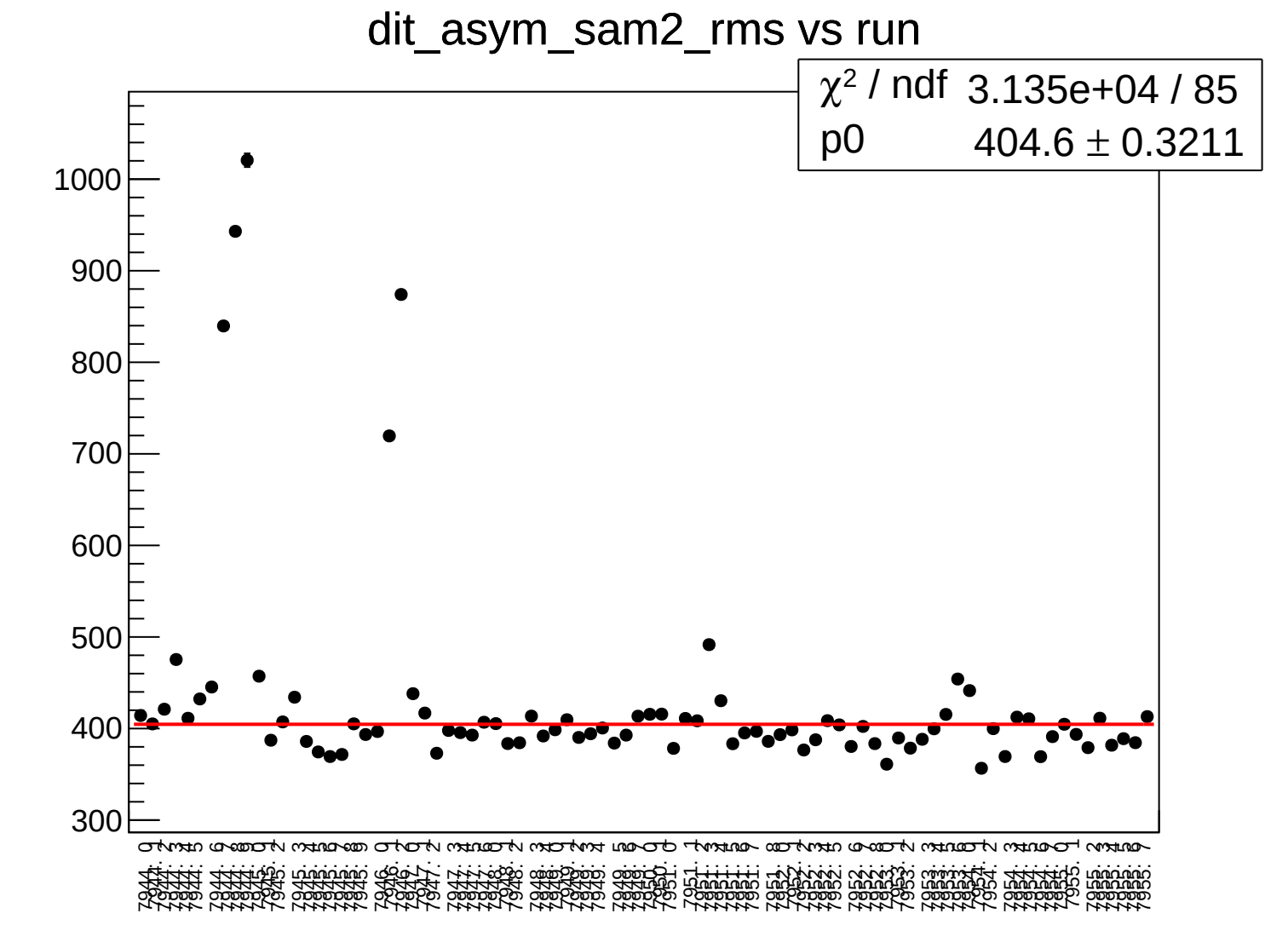

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.15 / 85
p0 1507 ± 6045
pull
Entries 86
Mean 389
Std Dev 0

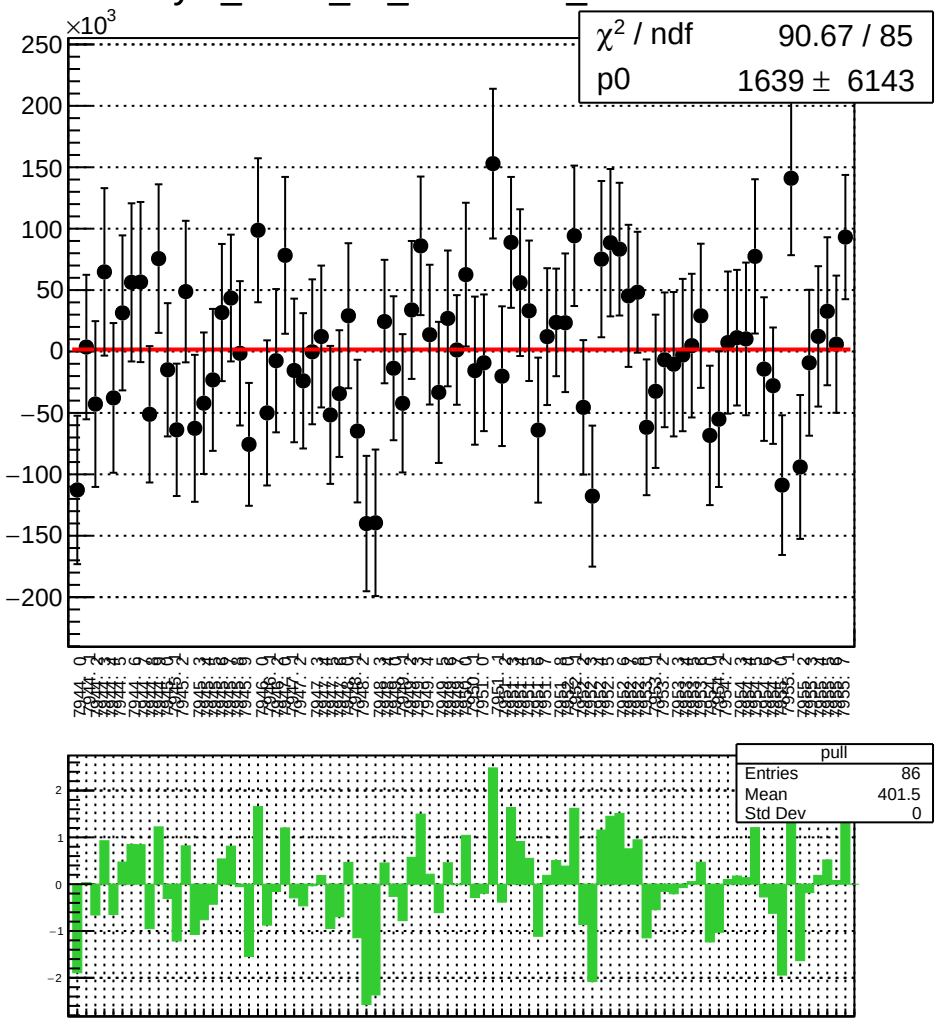

pull1D
Entries 86
Mean 0.007869
Std Dev 1.029

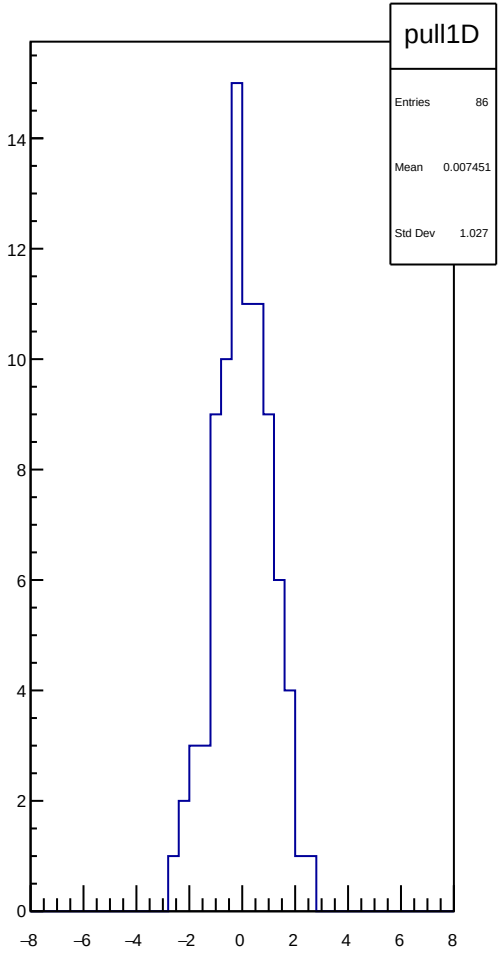

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 4150 / 85
p0 5432 ± 4.275
6400
6200
6000
5800
5600
5400
5200
5000
4800

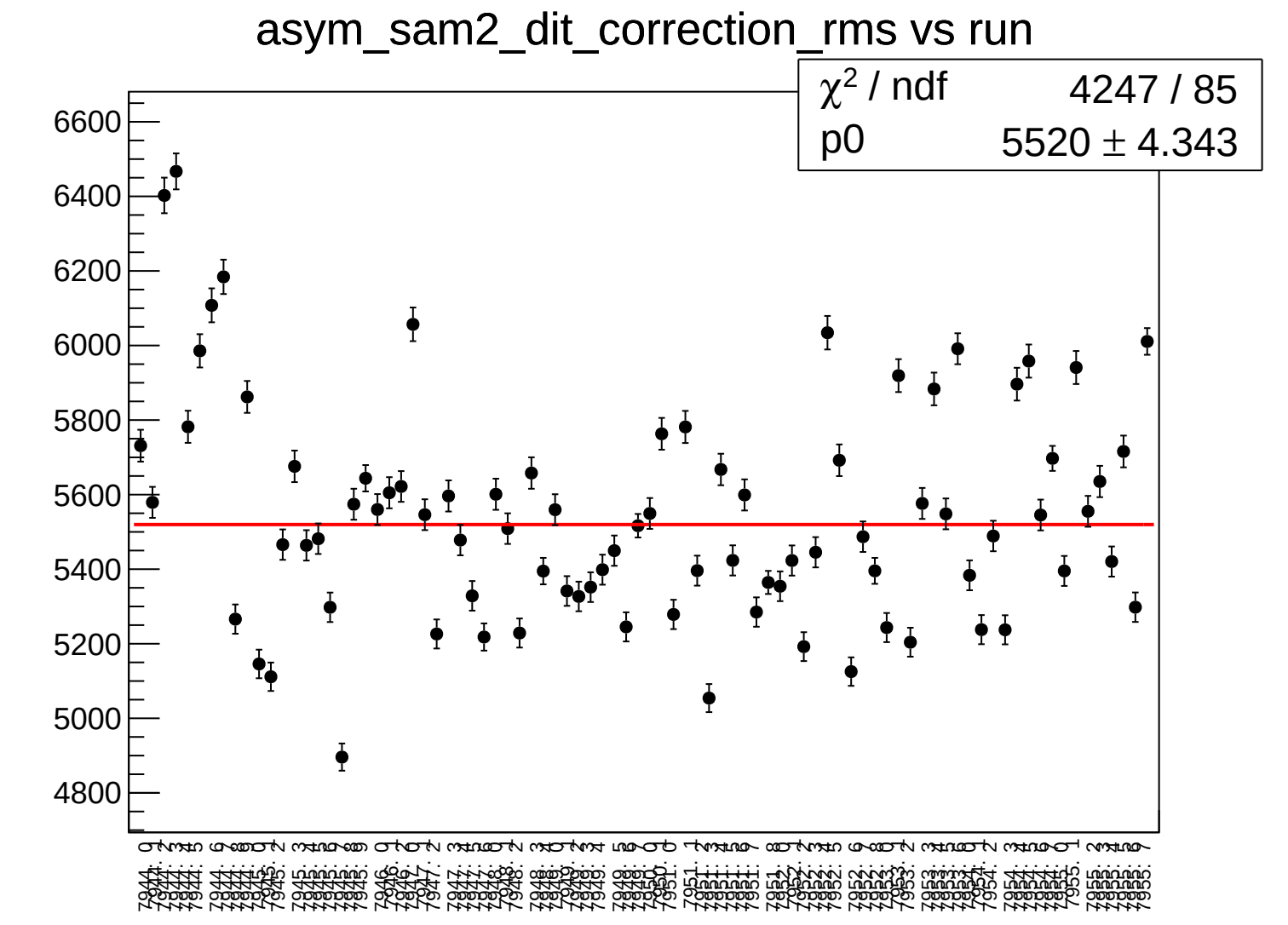

dit_asym_sam2_mean vs run
χ^2 / ndf 91.05 / 85
p0 92.03 ± 454.1
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 535.3
Std Dev 0
2
1
0
−1
−2
−3

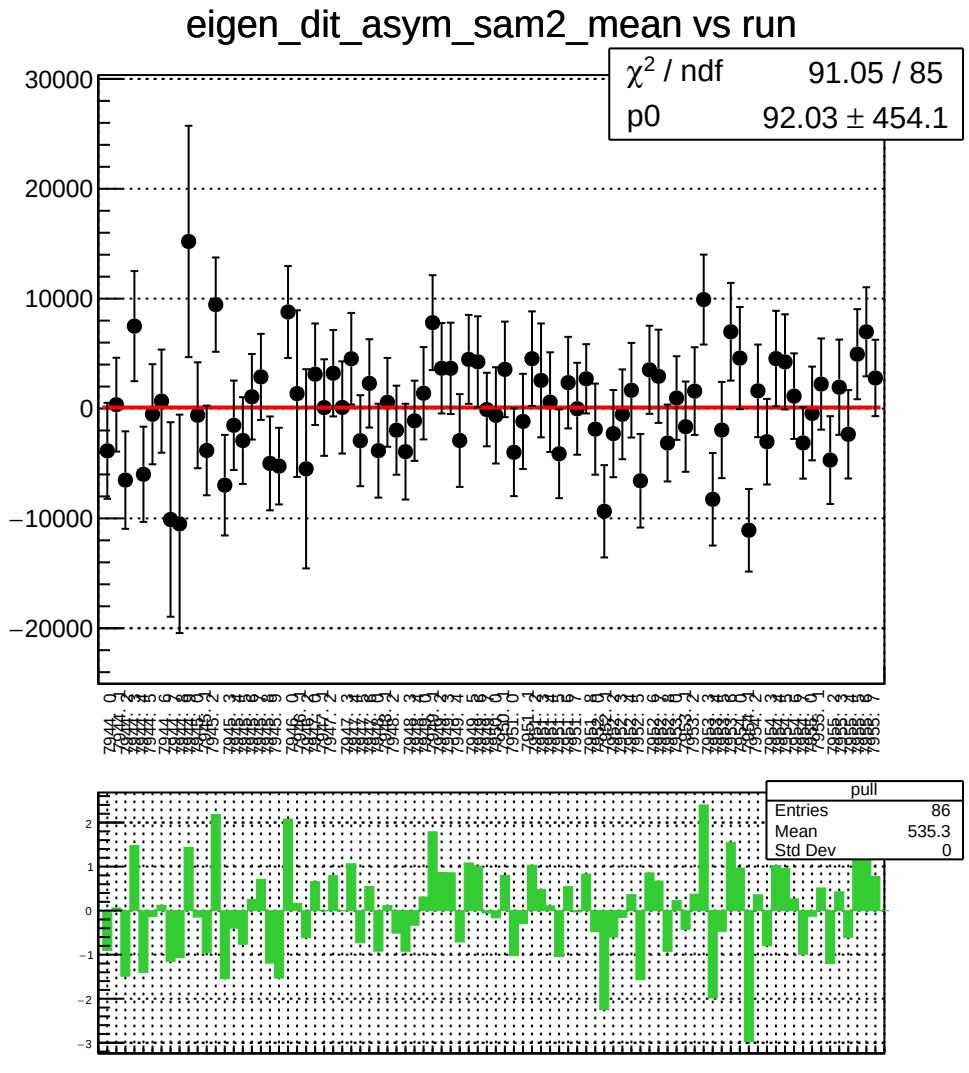

pull1D
Entries 86
Mean 0.004959
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

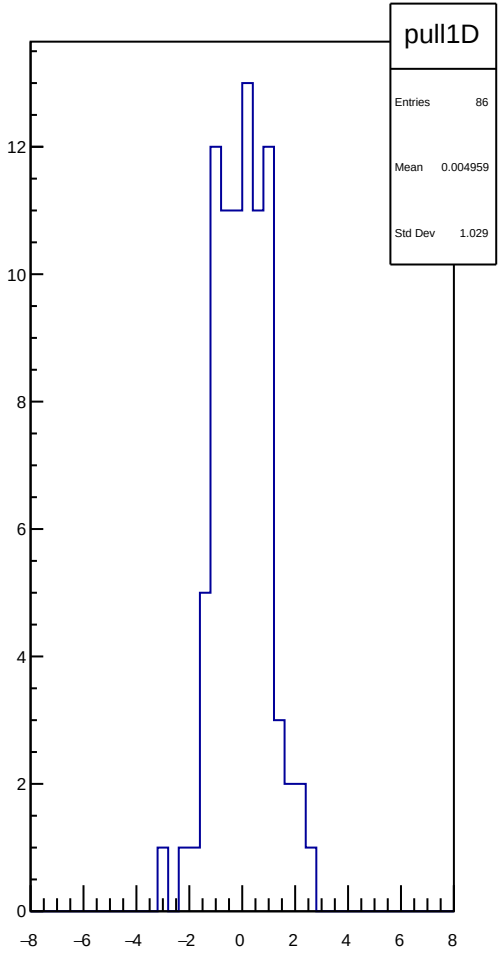

dit_asym_sam2_rms vs run
χ² / ndf 3.135e+04 / 85
p0 404.6 ± 0.3211
1000
900
800
700
600
500
400
300

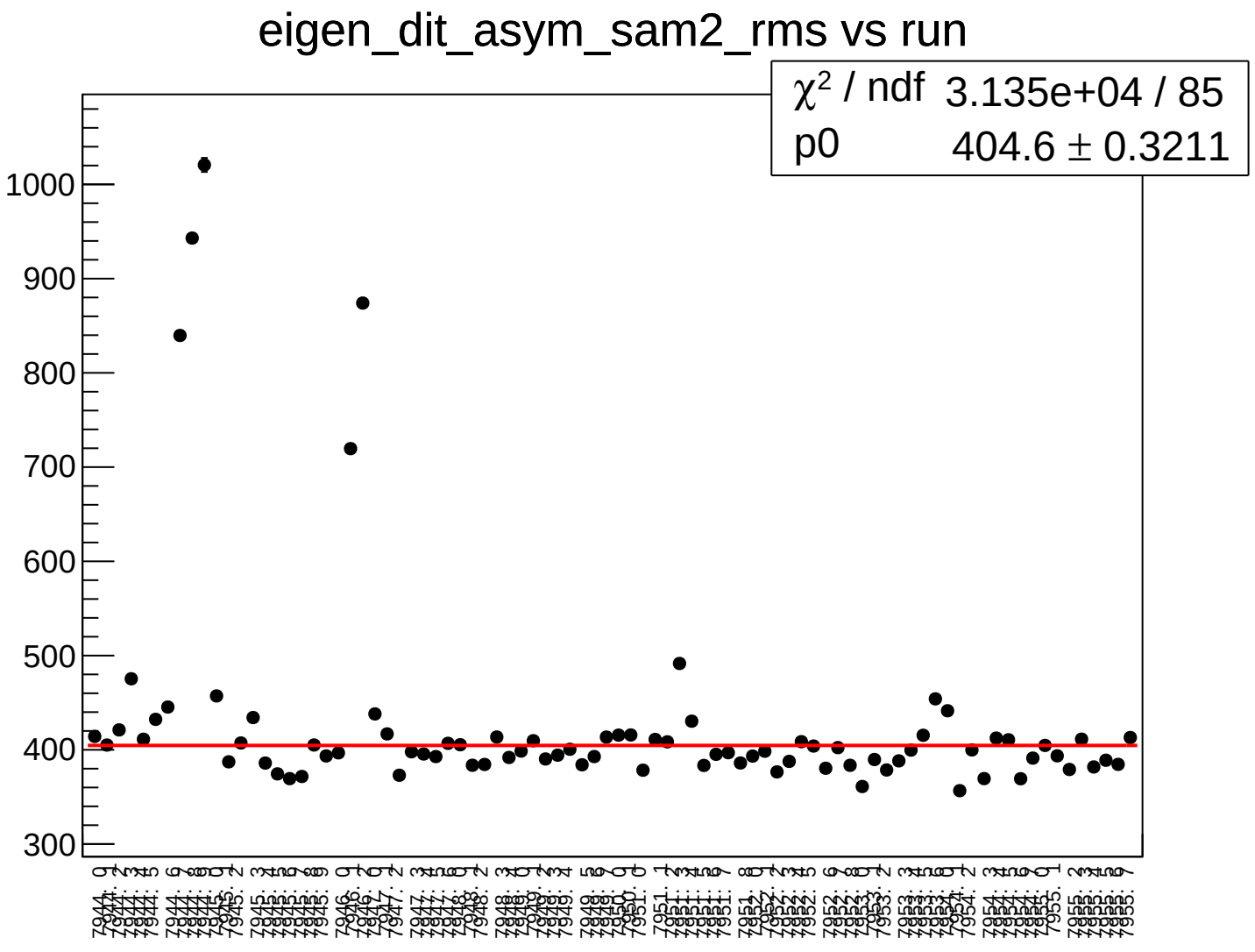

asym_sam2_dit_correction_mean vs run
χ^2 / ndf 90.67 / 85
p0 1639 ± 6143
pull
Entries 86
Mean 401.5
Std Dev 0

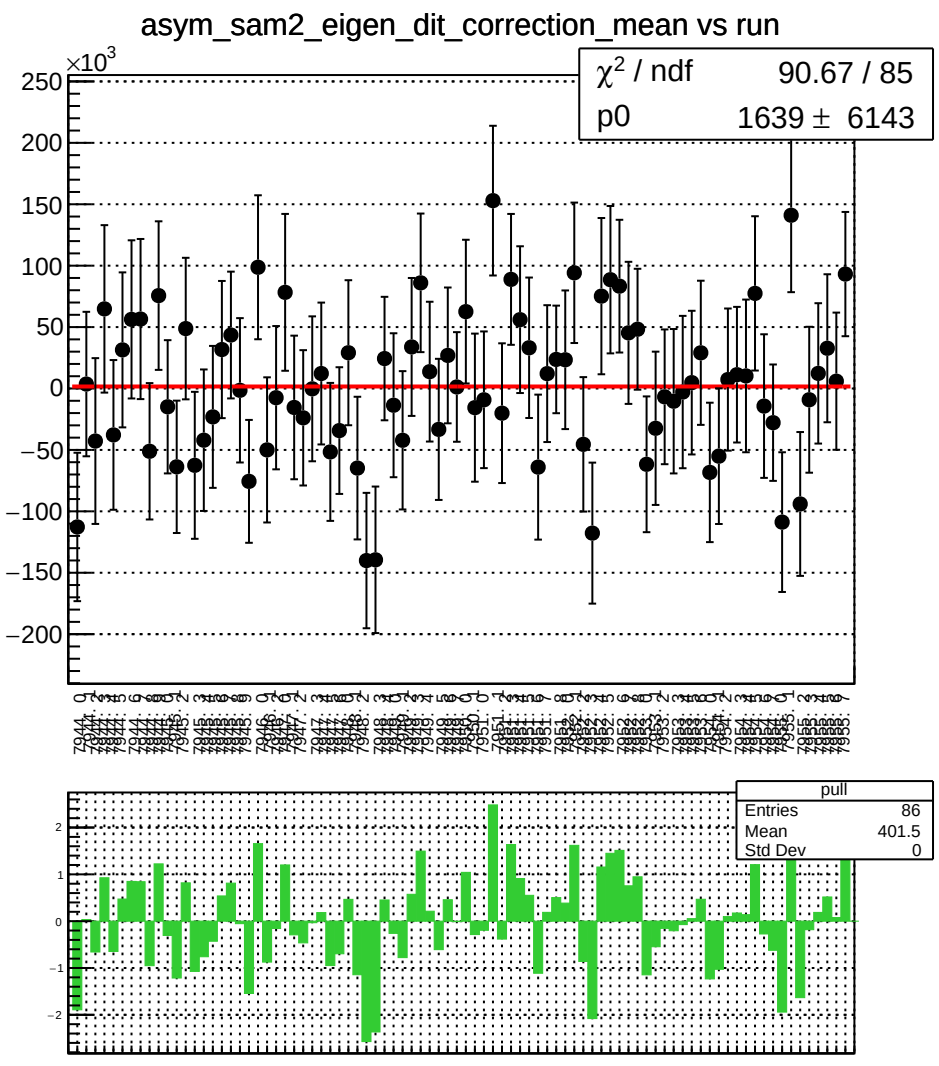

pull1D
Entries 86
Mean 0.007451
Std Dev 1.027

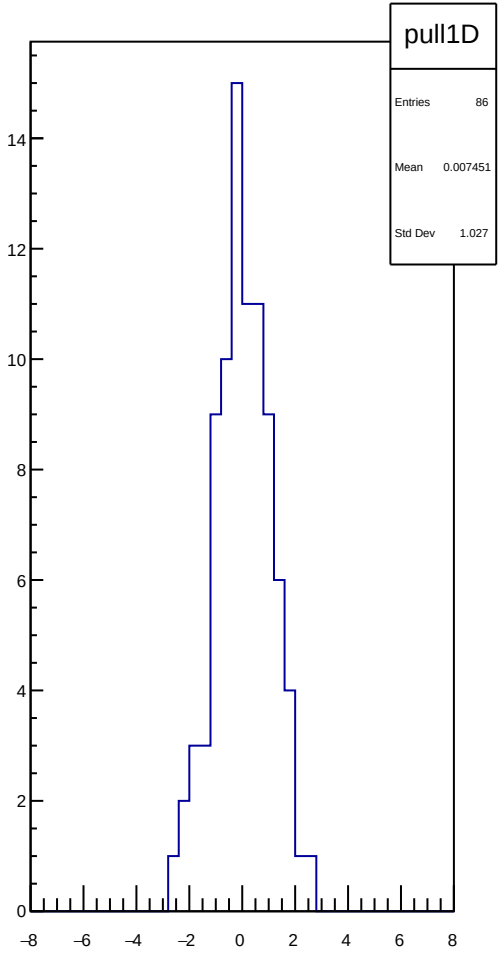

asym_sam2_dit_correction_rms vs run
χ² / ndf 4247 / 85
p0 5520 ± 4.343
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

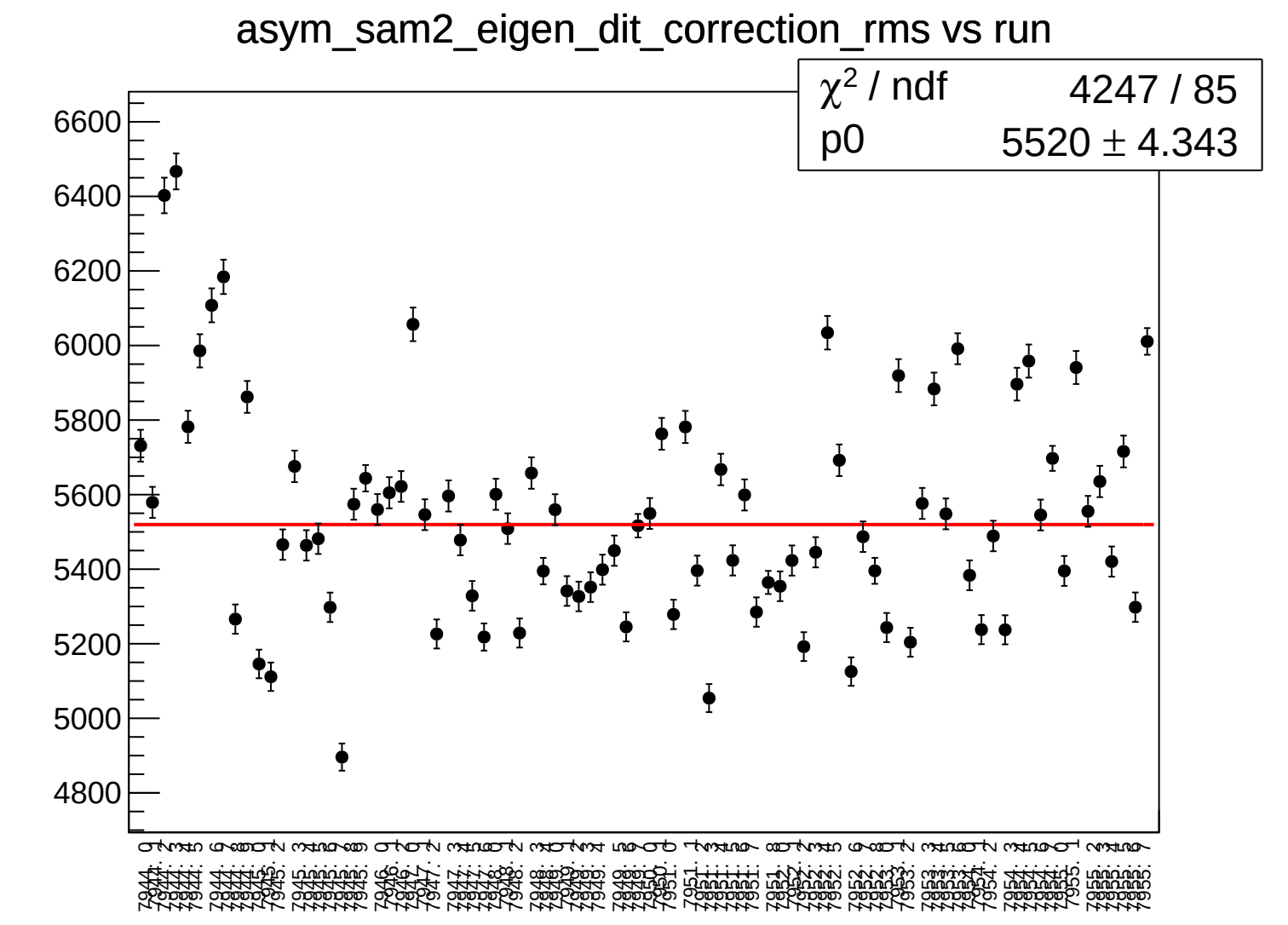

eigen_dit_asym_sam2_mean vs run
χ² / ndf 91.05 / 85
p0 92.03 ± 454.1
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 535.3
Std Dev 0
2
1
0
−1
−2
−3

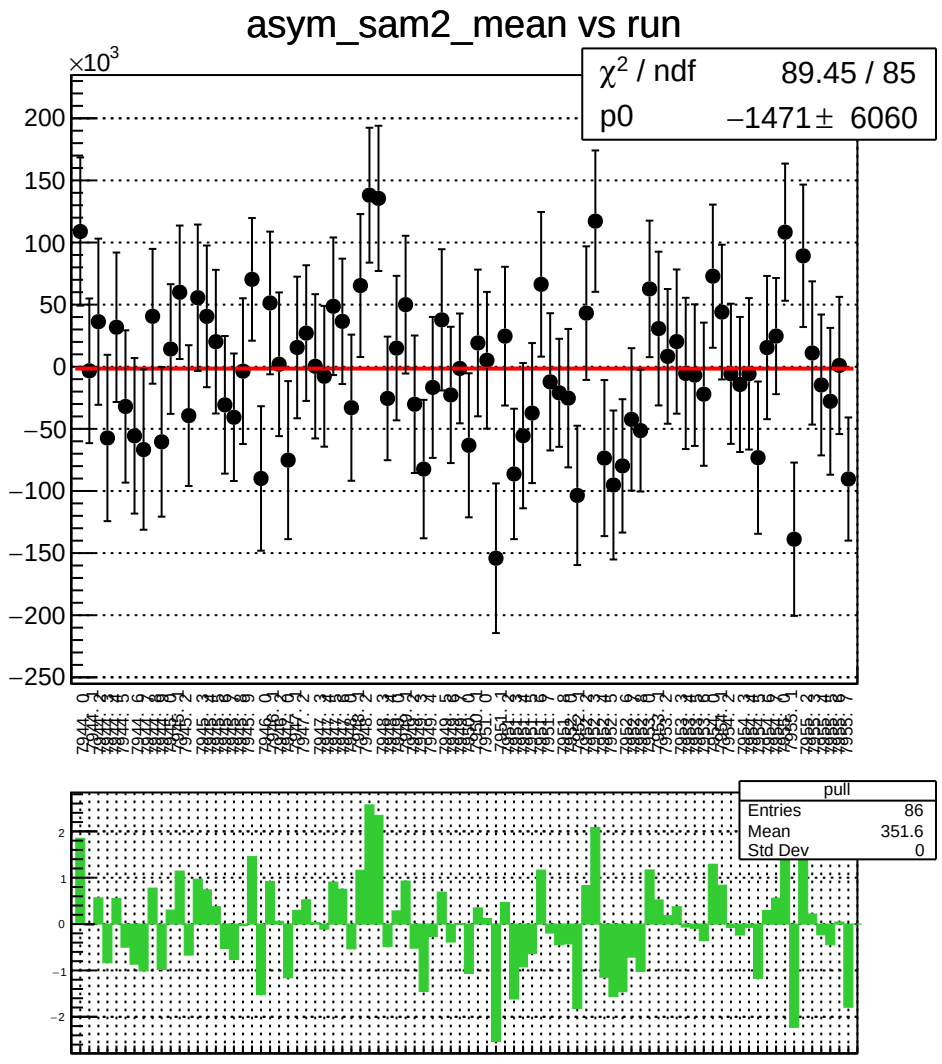

pull1D
Entries 86
Mean 0.004959
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

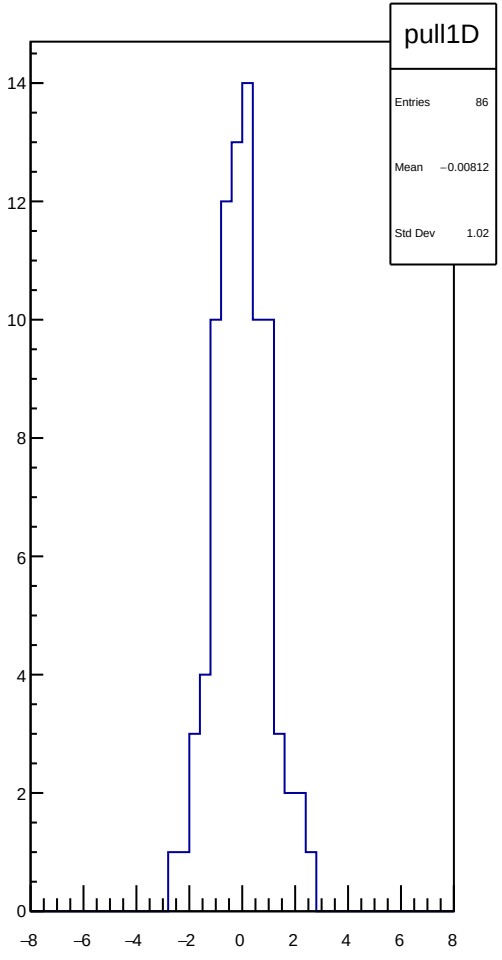

eigen_dit_asym_sam2_rms vs run
χ² / ndf 3.135e+04 / 85
p0 404.6 ± 0.3211
1000
900
800
700
600
500
400
300

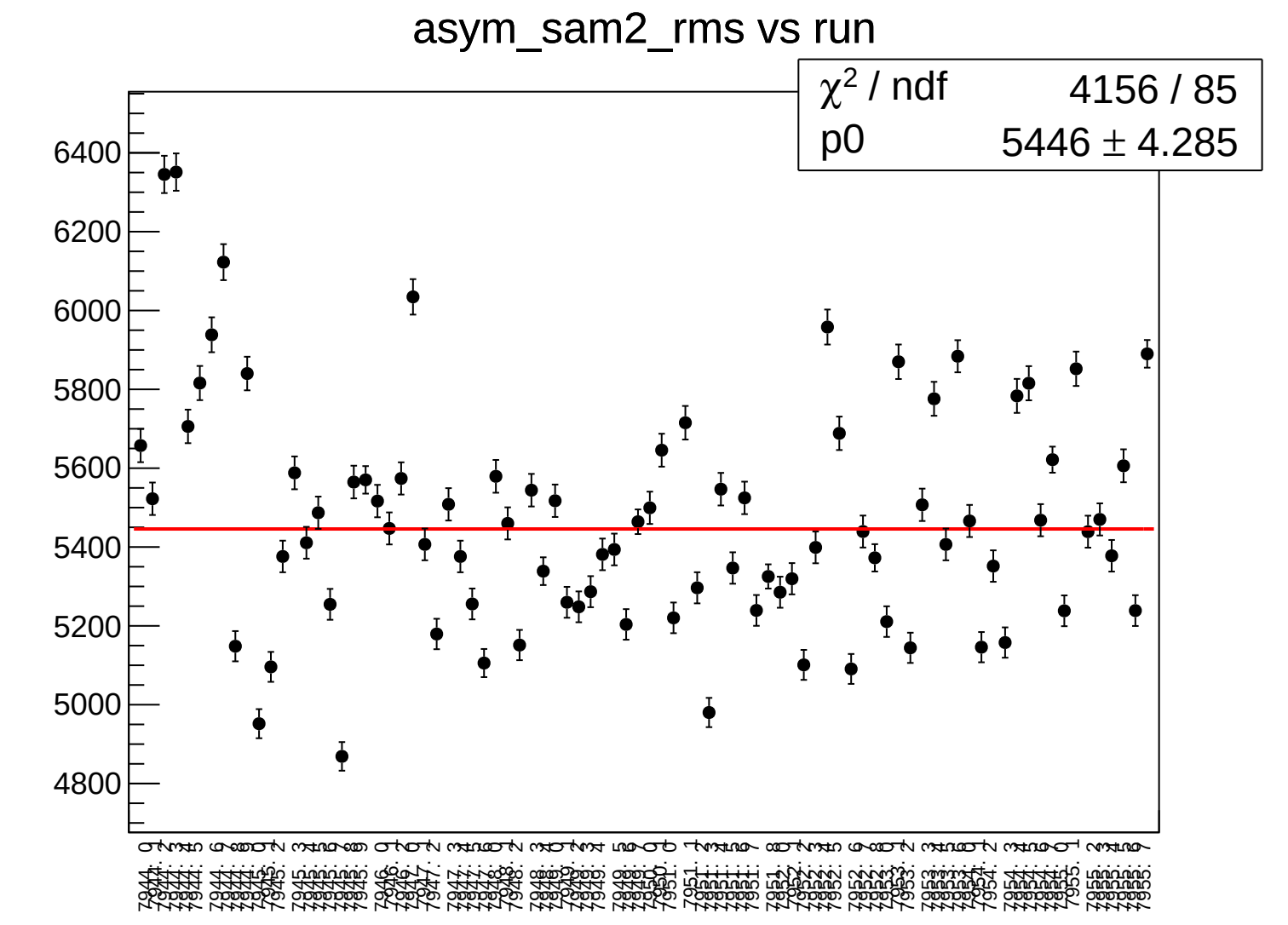

asym_sam2_eigen_dit_correction_mean vs run
χ^2 / ndf 90.67 / 85
p0 1639 ± 6143
×10^3
pull
Entries 86
Mean 401.5
Std Dev 0

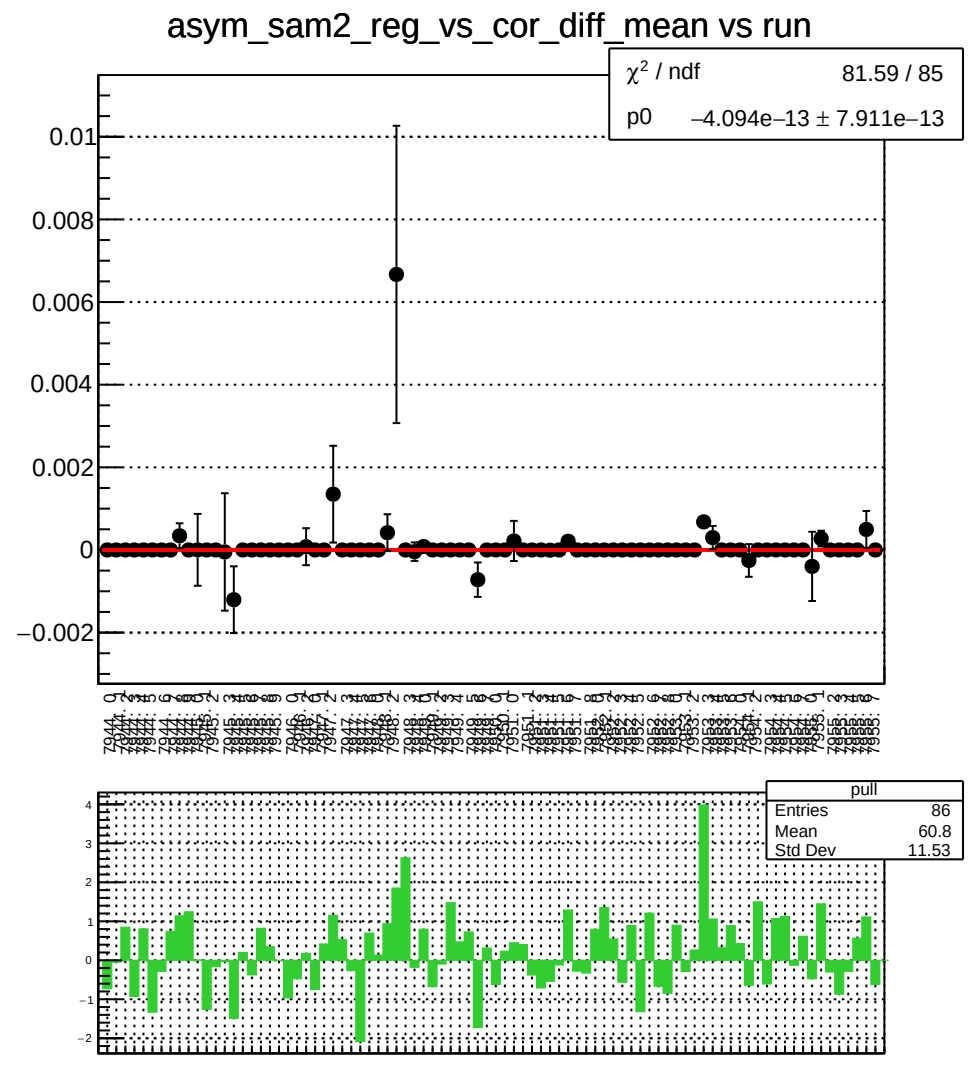

pull1D
Entries 86
Mean 0.007451
Std Dev 1.027

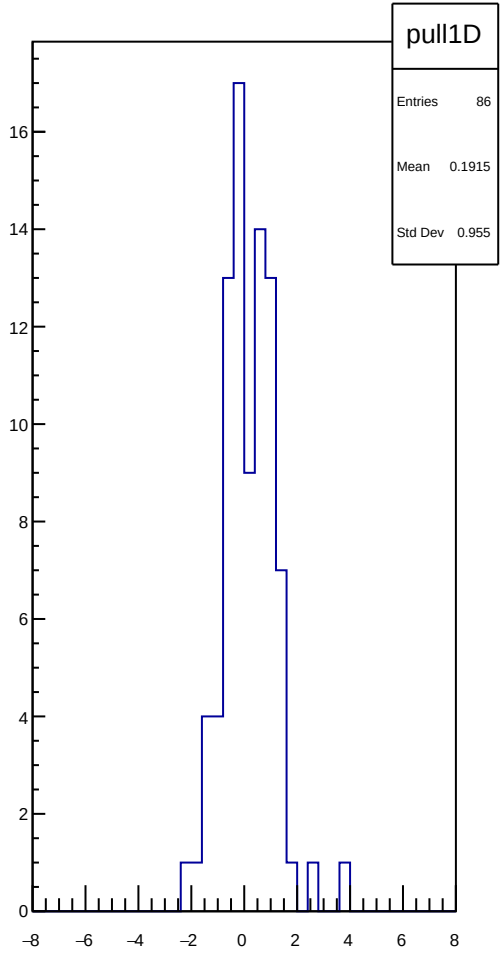

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 4247 / 85
p0 5520 ± 4.343
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

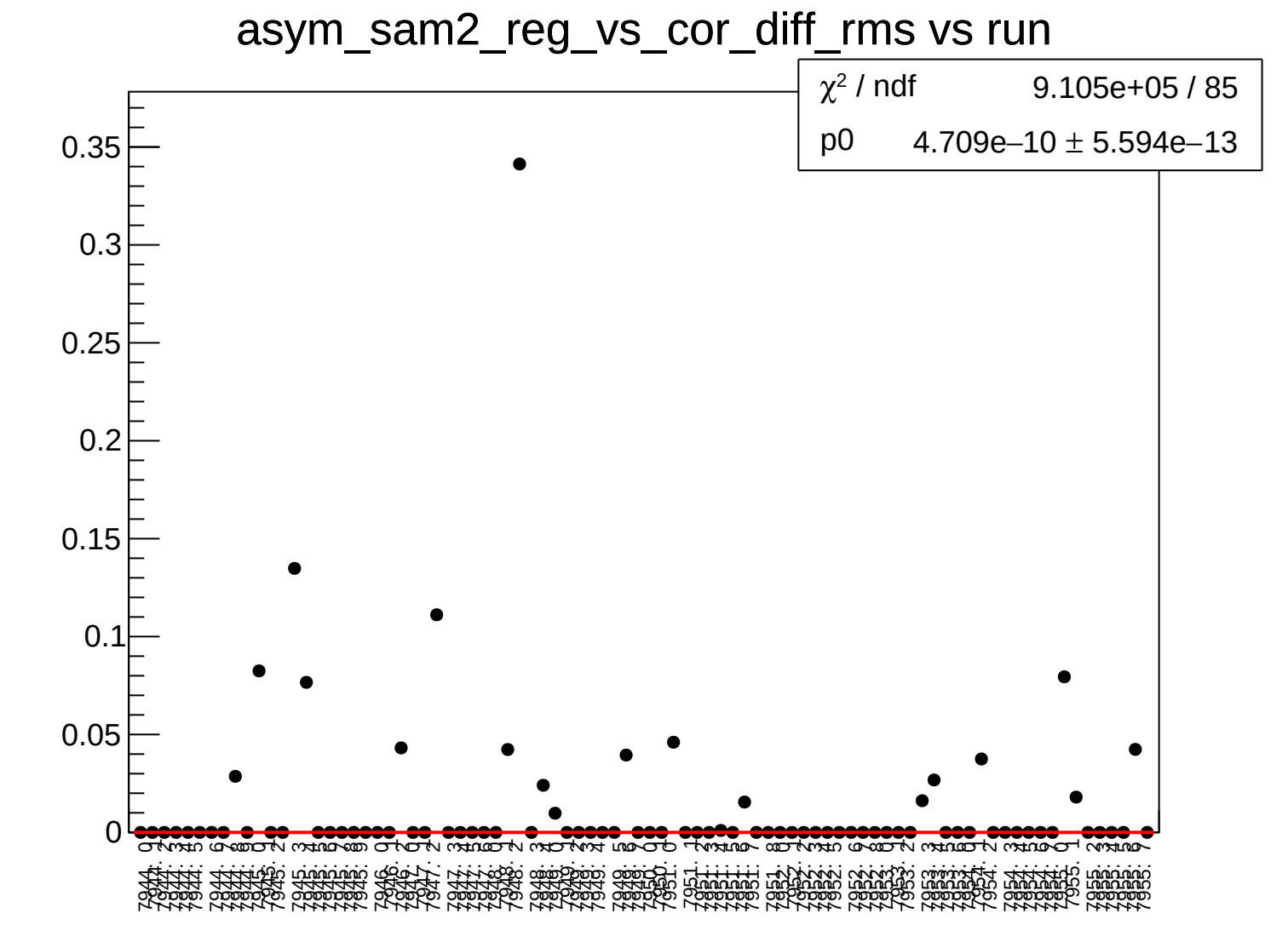

asym_sam2_mean vs run
×10^3
χ^2 / ndf 89.45 / 85
p0 −1471 ± 6060
pull
Entries 86
Mean 351.6
Std Dev 0

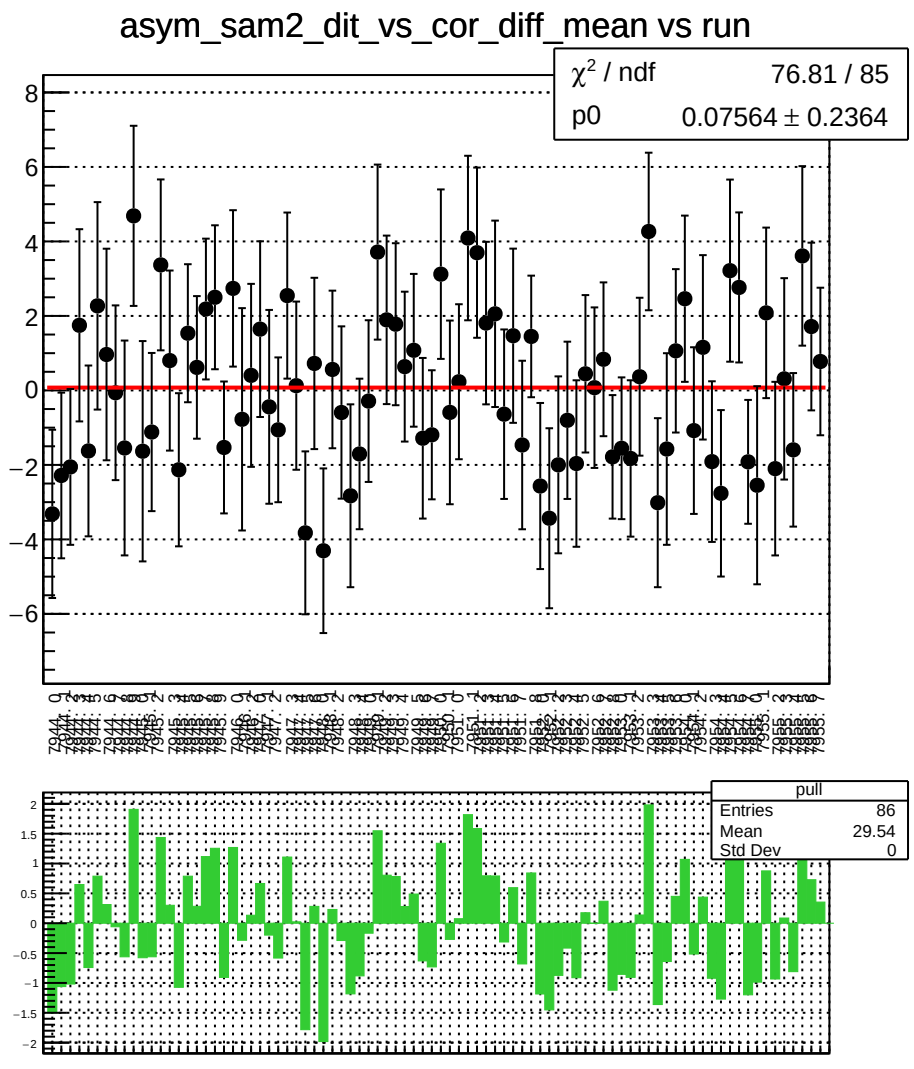

pull1D
Entries 86
Mean −0.00812
Std Dev 1.02

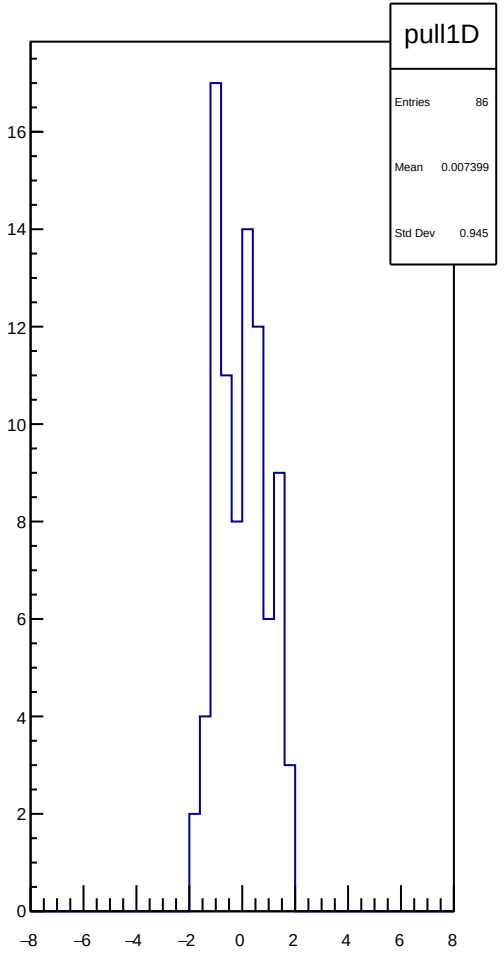

asym_sam2_rms vs run
χ² / ndf 4156 / 85
p0 5446 ± 4.285
6400
6200
6000
5800
5600
5400
5200
5000
4800

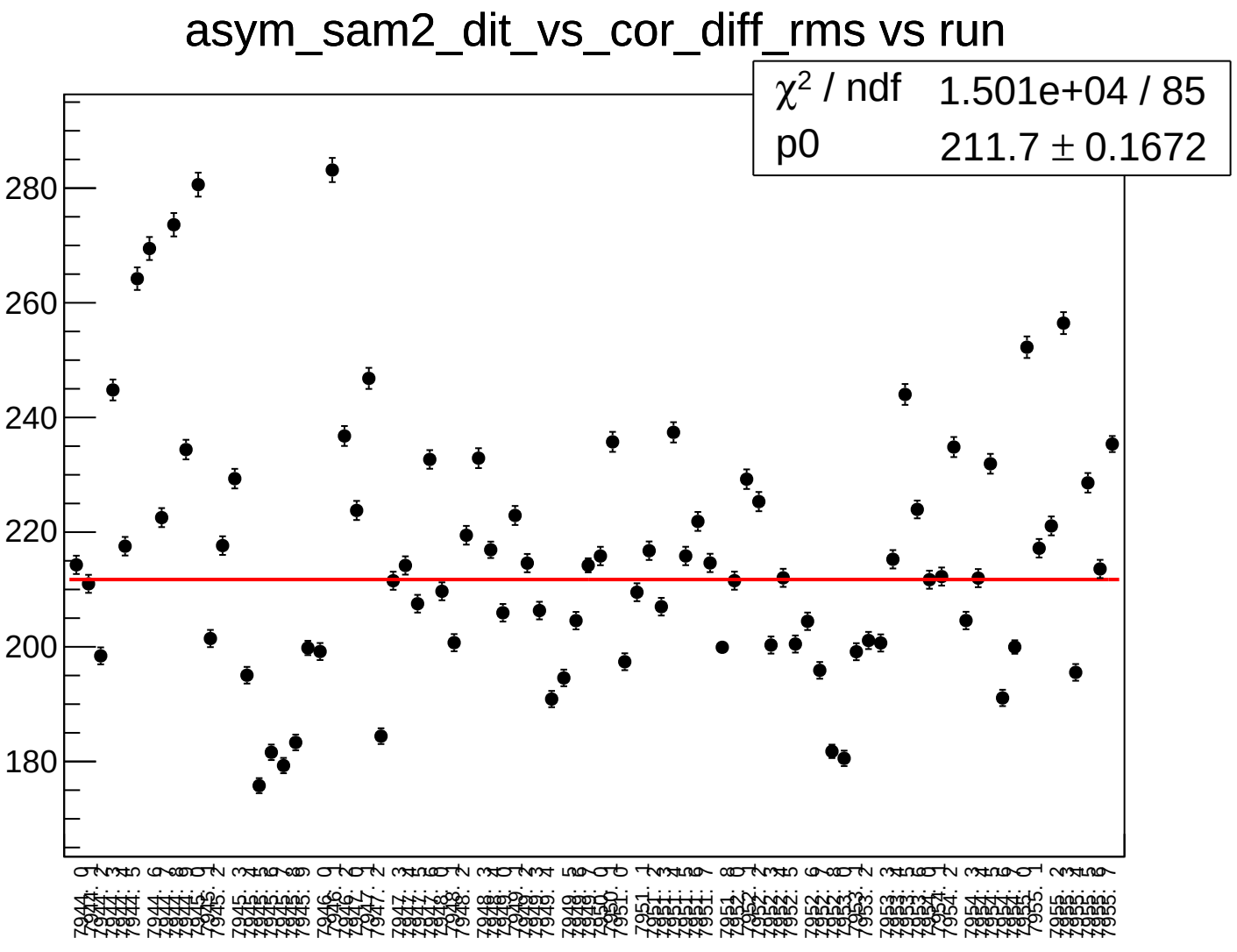

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 81.59 / 85
p0 −4.094e−13 ± 7.911e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
pull
Entries 86
Mean 60.8
Std Dev 11.53
4
3
2
1
0
−1
−2

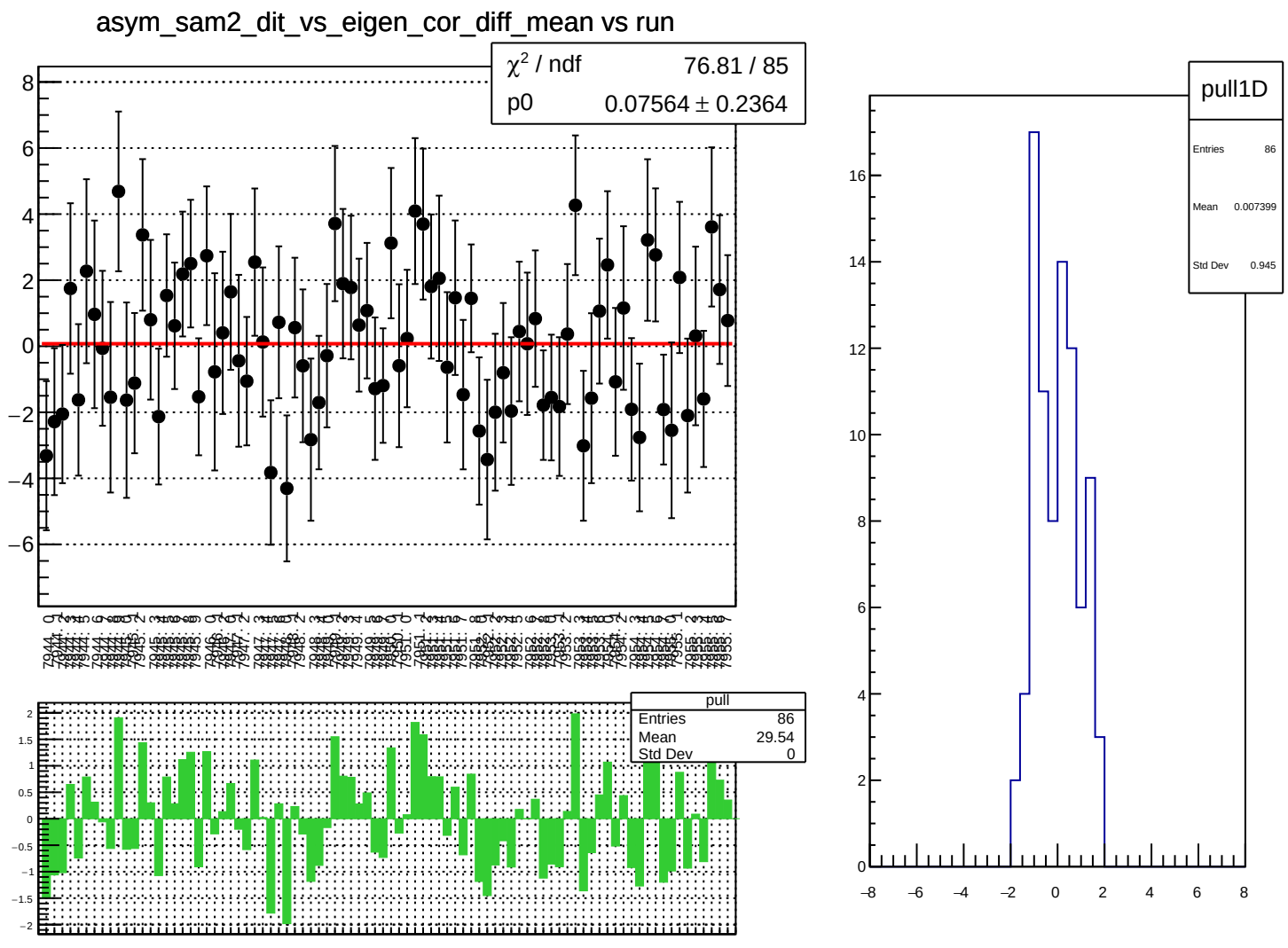

pull1D
Entries 86
Mean 0.1915
Std Dev 0.955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

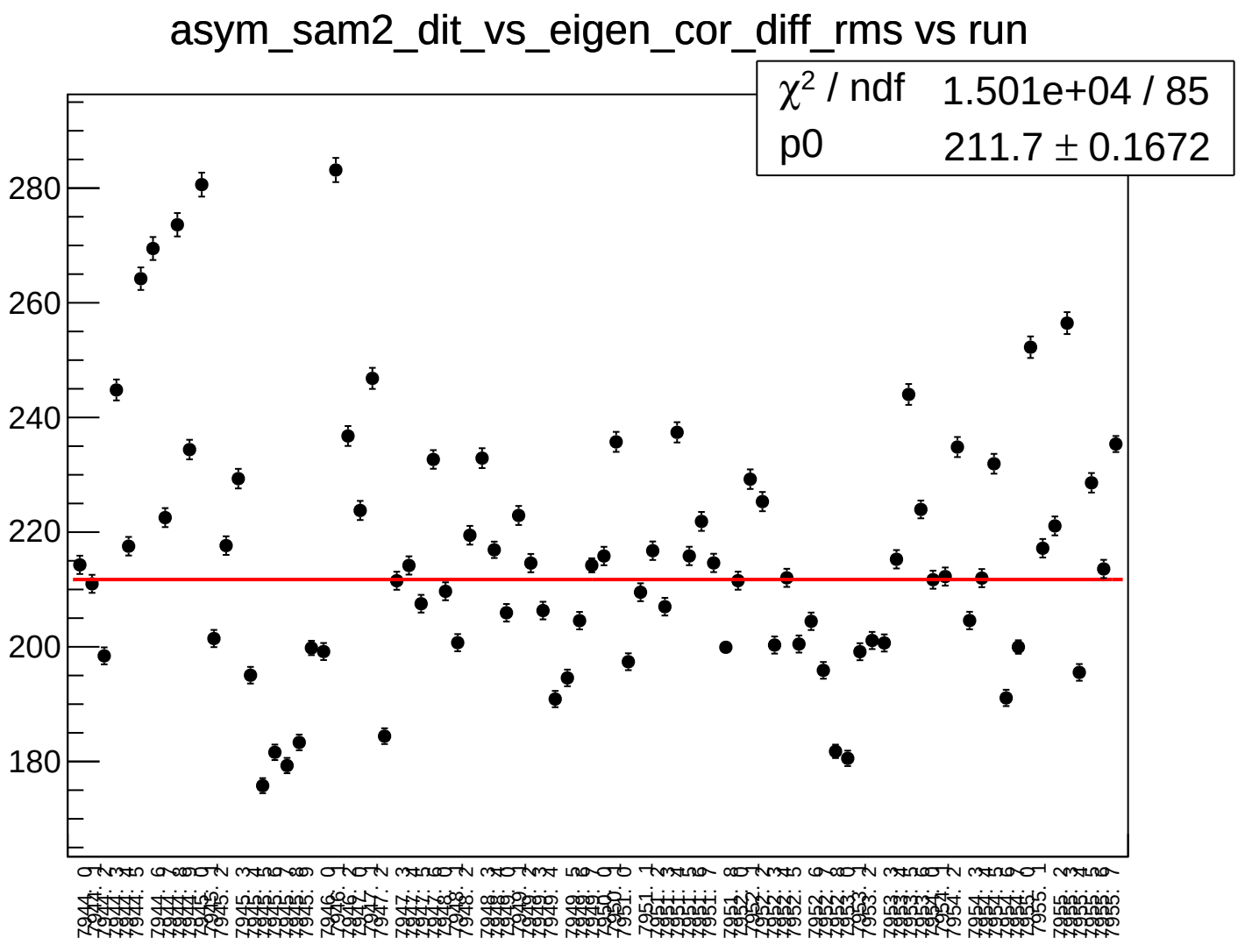

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.105e+05 / 85
p0 4.709e−10 ± 5.594e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

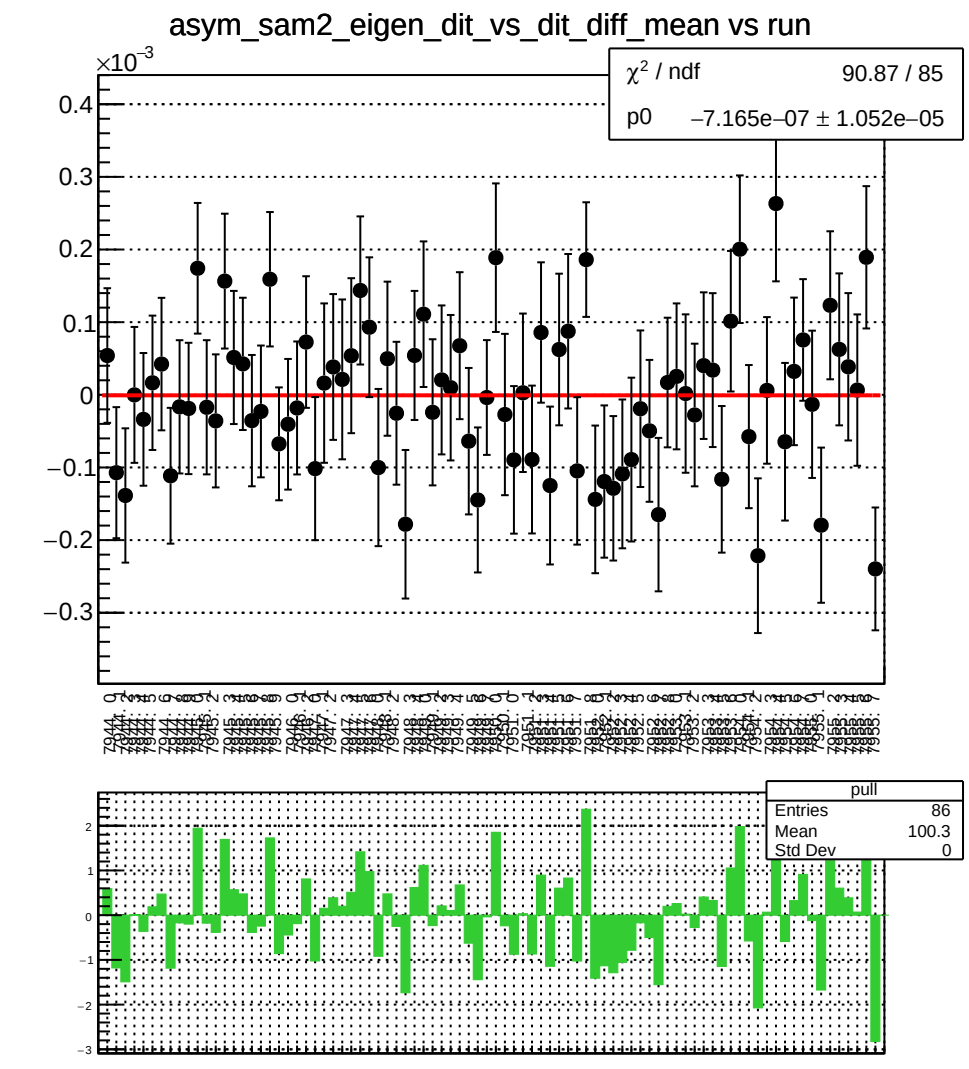

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 76.81 / 85
p0 0.07564 ± 0.2364
pull
Entries 86
Mean 29.54
Std Dev 0

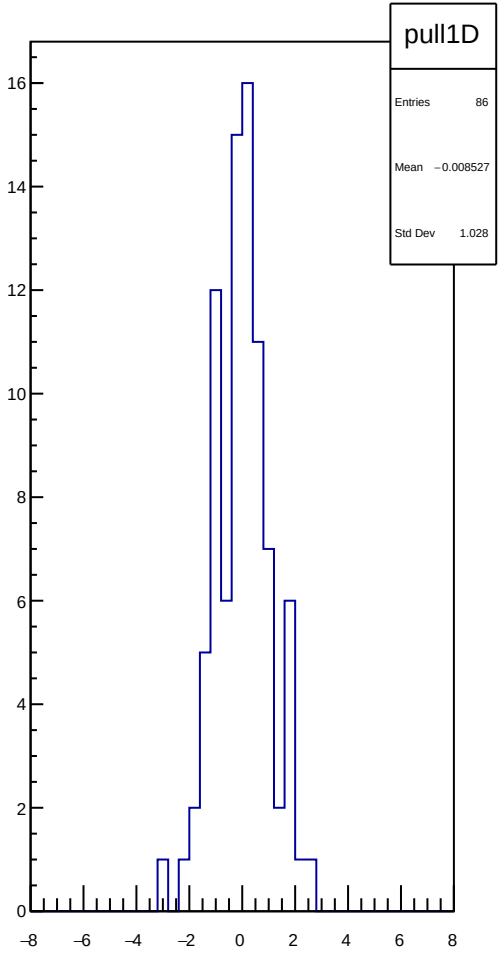

pull1D
Entries 86
Mean 0.007399
Std Dev 0.945

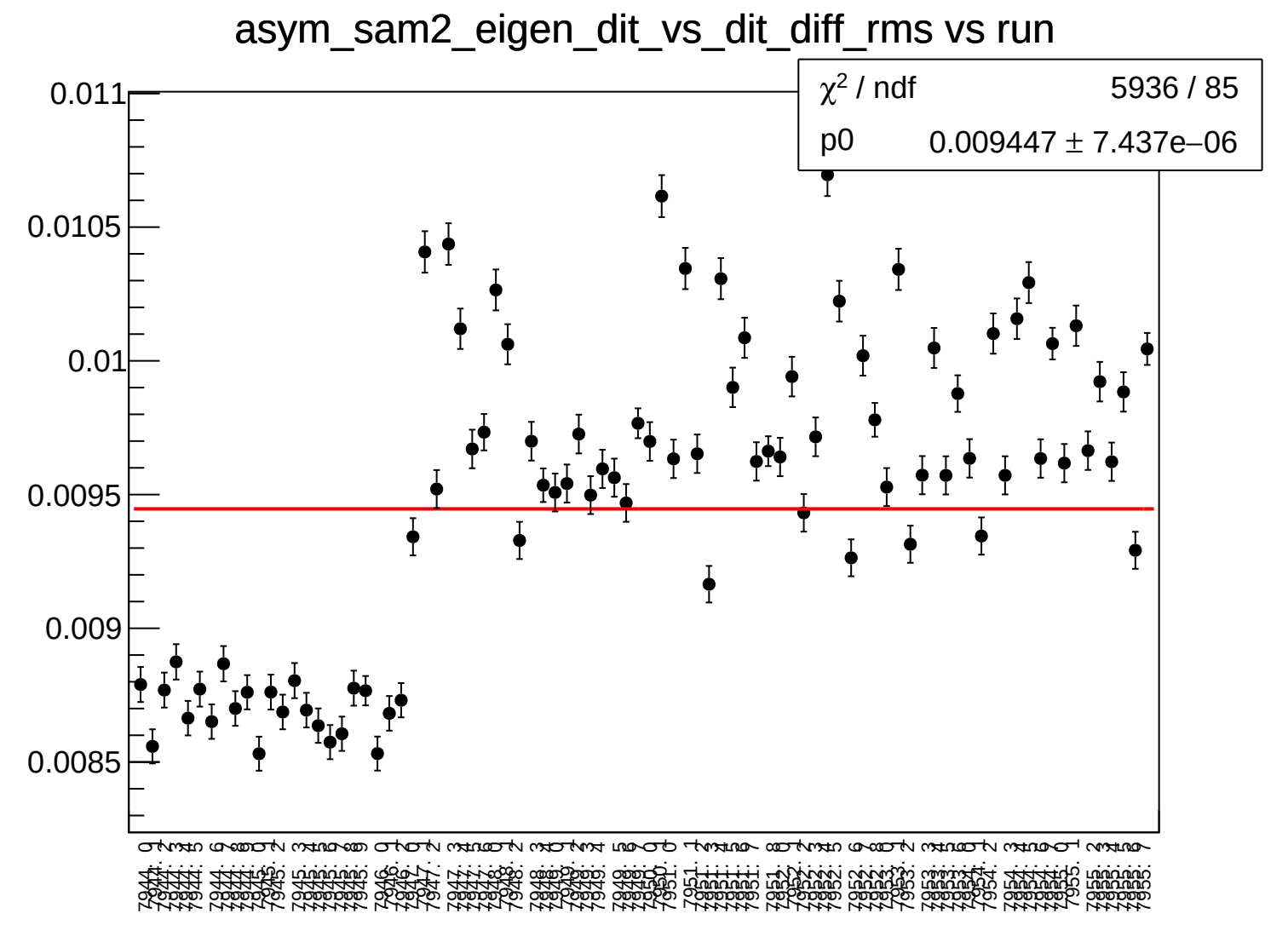

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.501e+04 / 85
p0 211.7 ± 0.1672
280
260
240
220
200
180

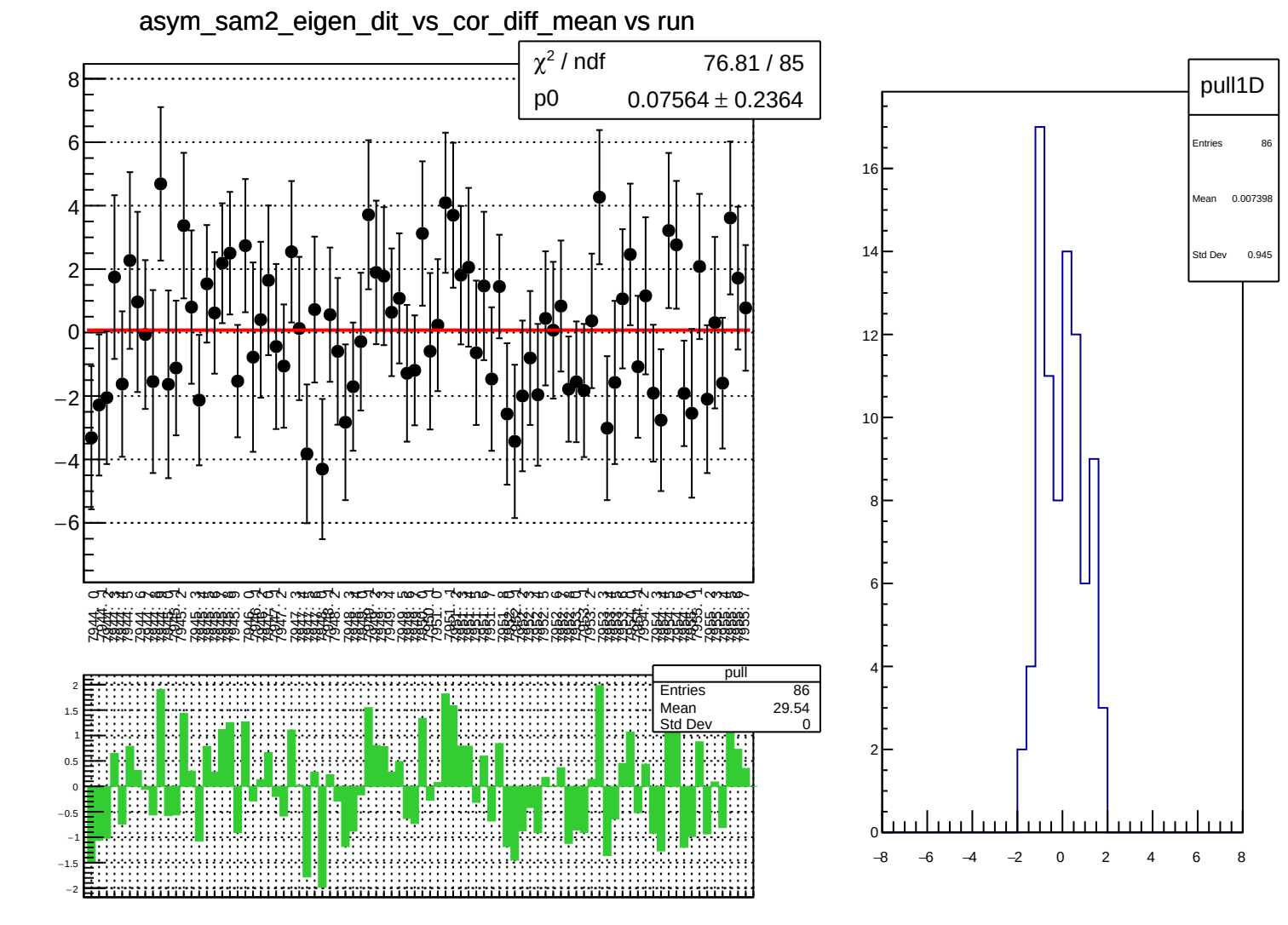

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.81 / 85
p0 0.07564 ± 0.2364
pull
Entries 86
Mean 29.54
Std Dev 0
pull1D
Entries 86
Mean 0.007399
Std Dev 0.945

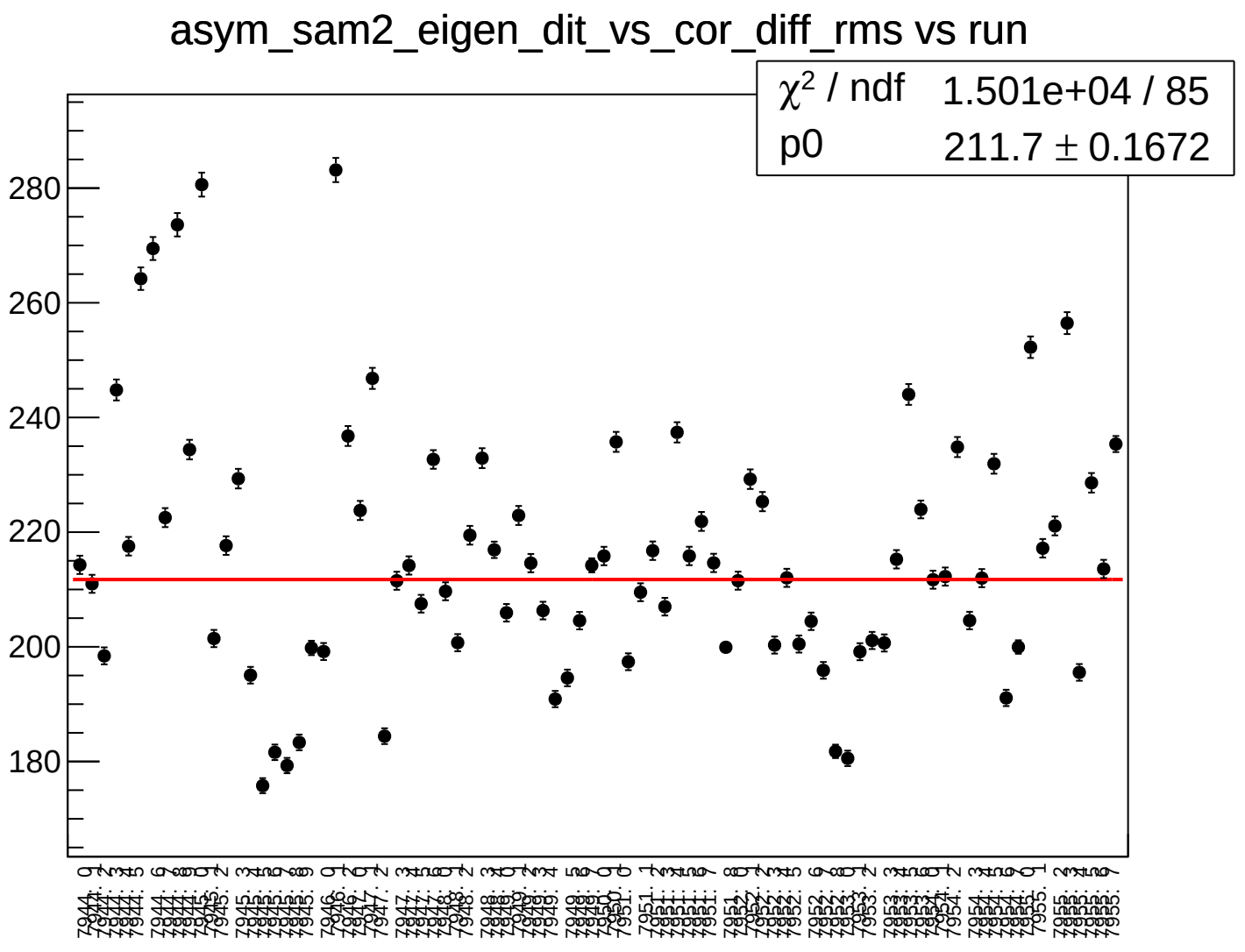

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.501e+04 / 85
p0 211.7 ± 0.1672
280
260
240
220
200
180

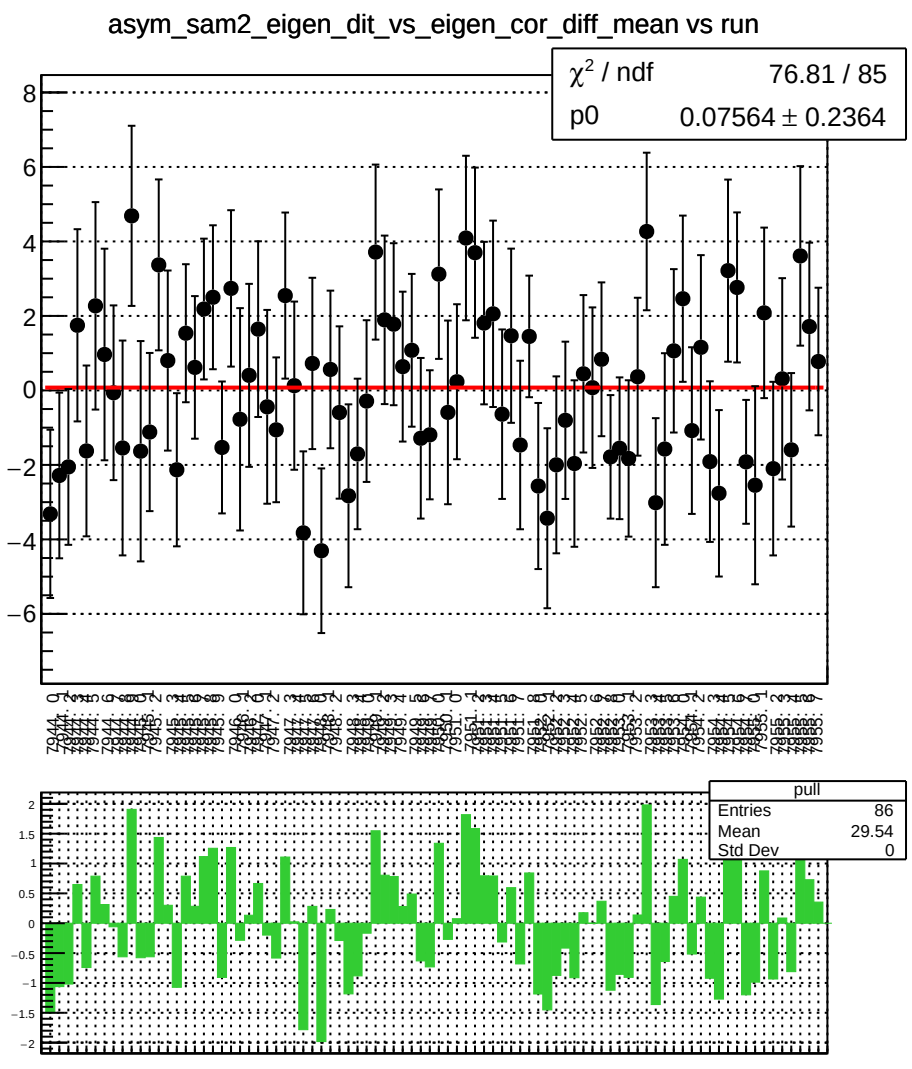

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 90.87 / 85
p0 −7.165e−07 ± 1.052e−05
pull
Entries 86
Mean 100.3
Std Dev 0

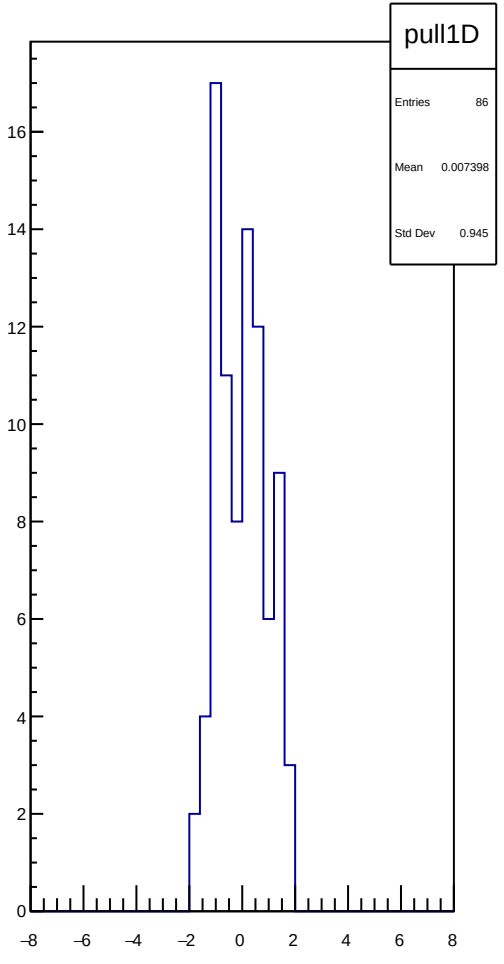

pull1D
Entries 86
Mean −0.008527
Std Dev 1.028

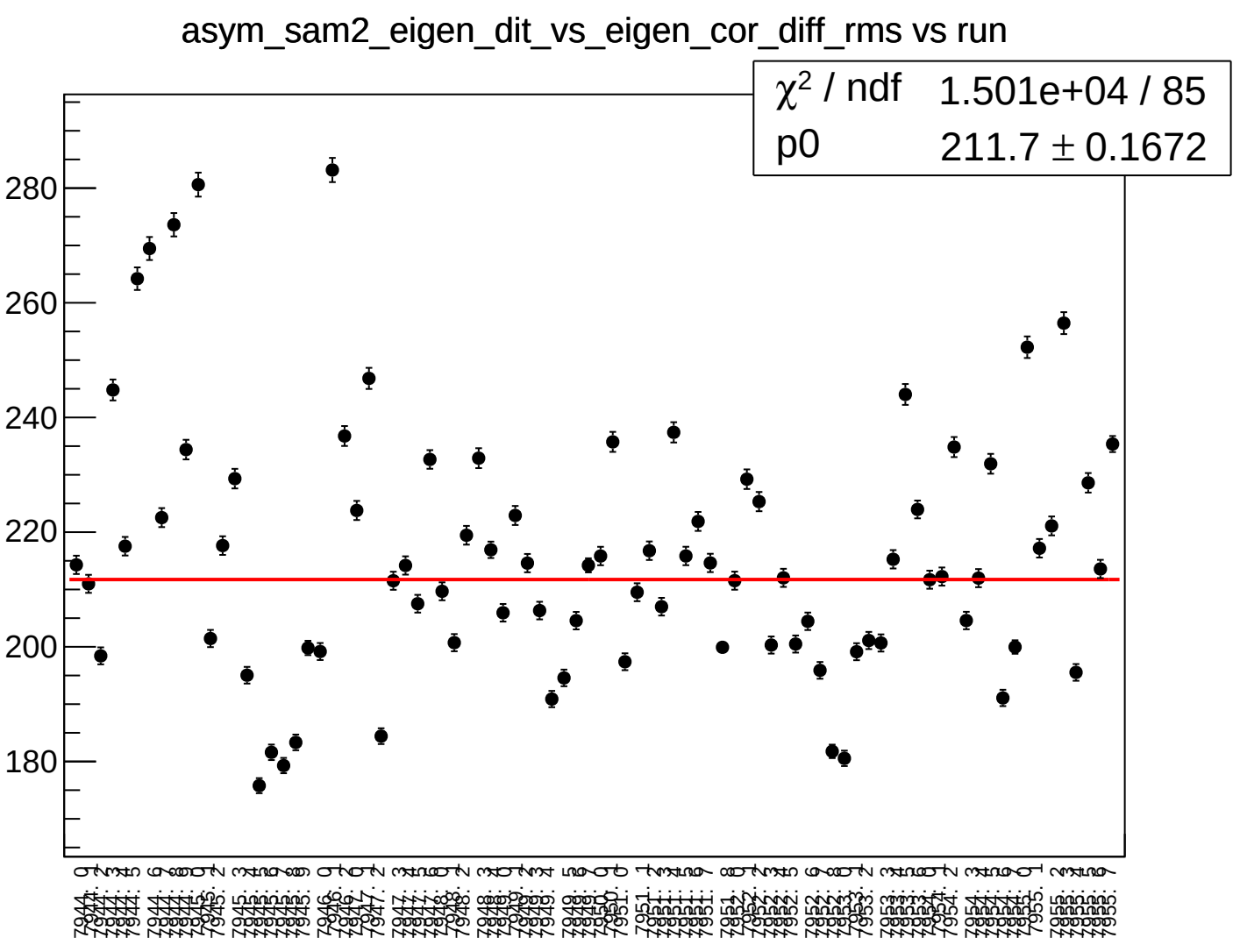

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5936 / 85
p0 0.009447 ± 7.437e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085

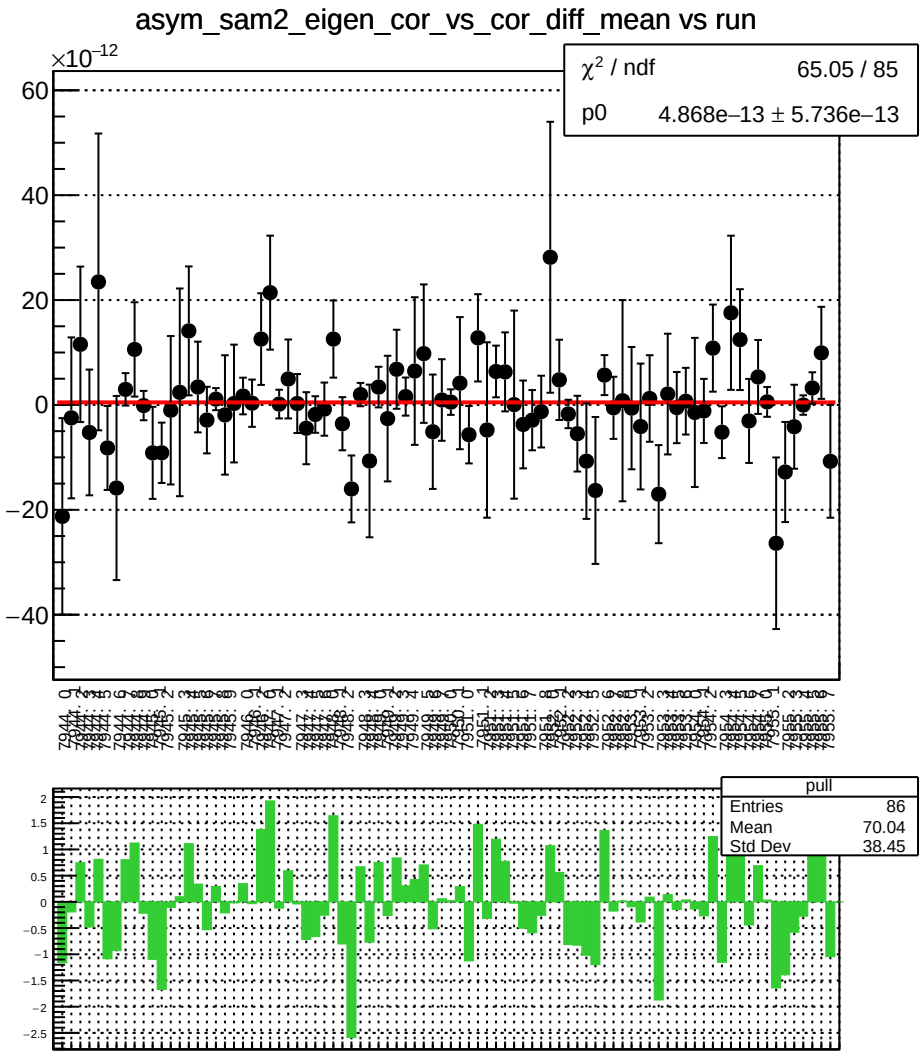

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.81 / 85
p0 0.07564 ± 0.2364
pull
Entries 86
Mean 29.54
Std Dev 0
pull1D
Entries 86
Mean 0.007398
Std Dev 0.945

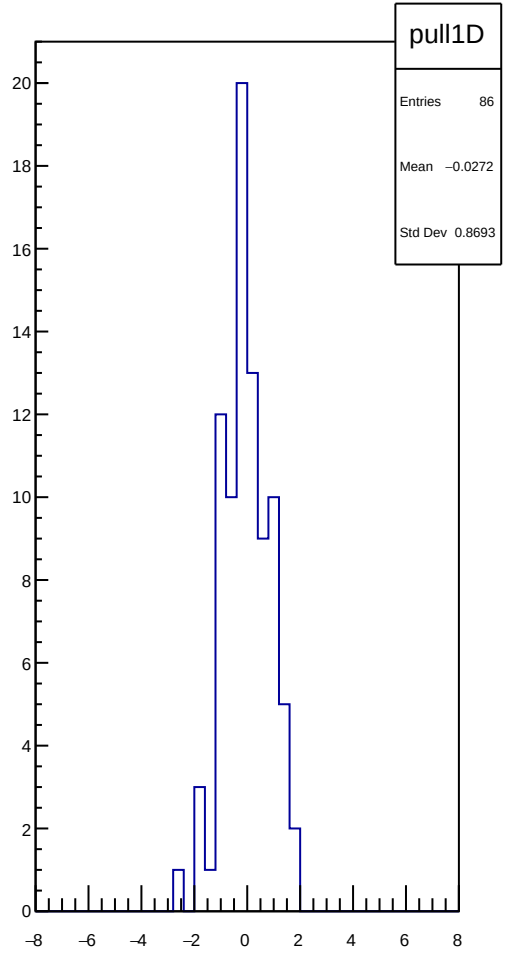

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.501e+04 / 85
p0 211.7 ± 0.1672
280
260
240
220
200
180

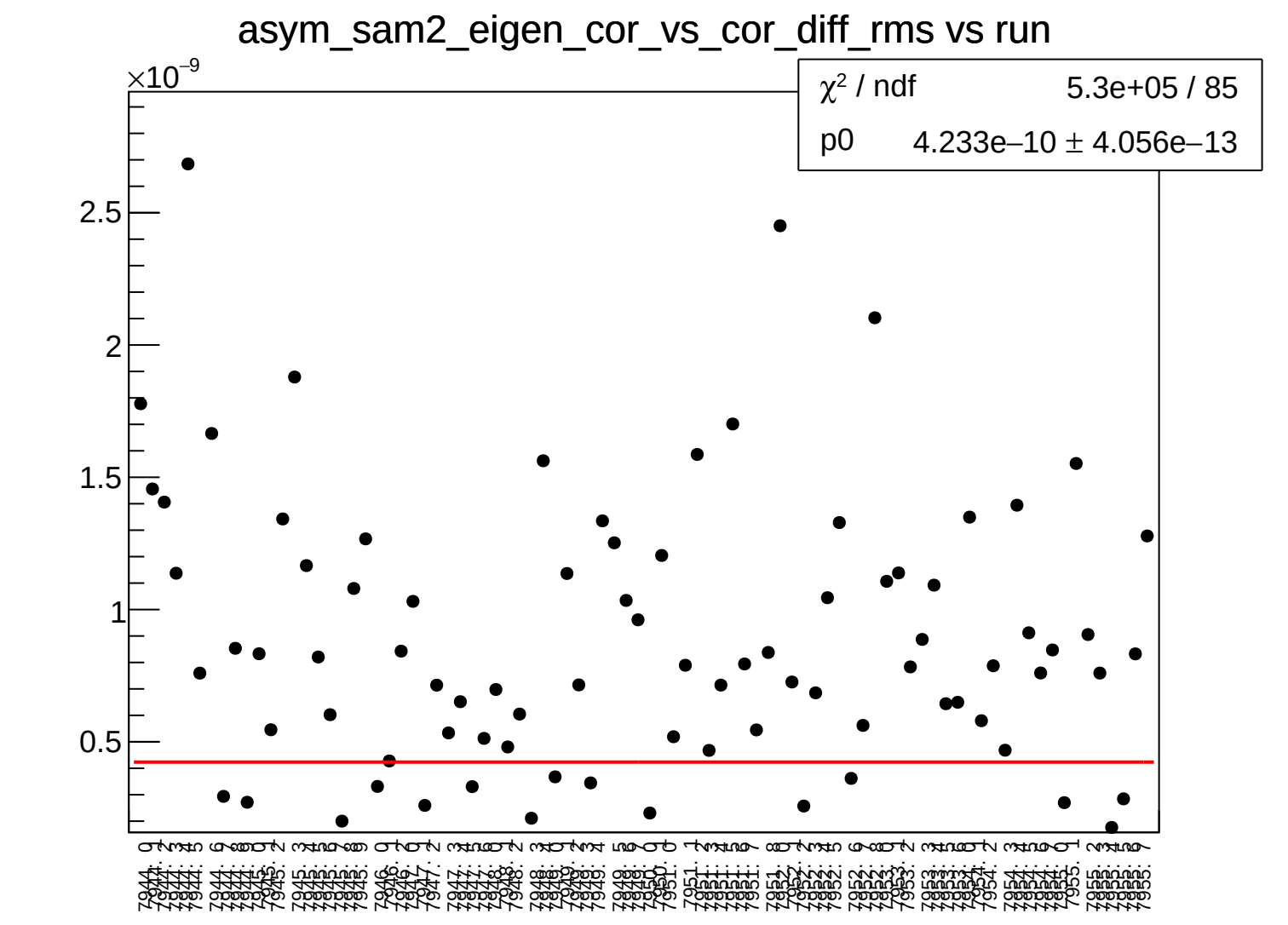

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.81 / 85
p0 0.07564 ± 0.2364
pull
Entries 86
Mean 29.54
Std Dev 0

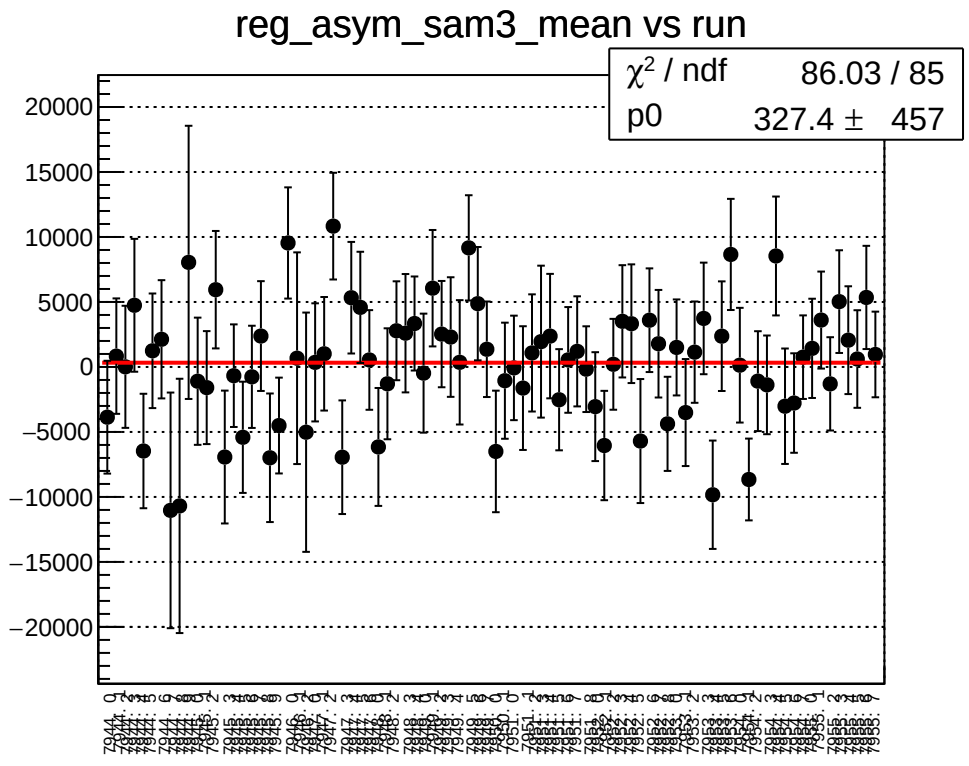

pull1D
Entries 86
Mean 0.007398
Std Dev 0.945

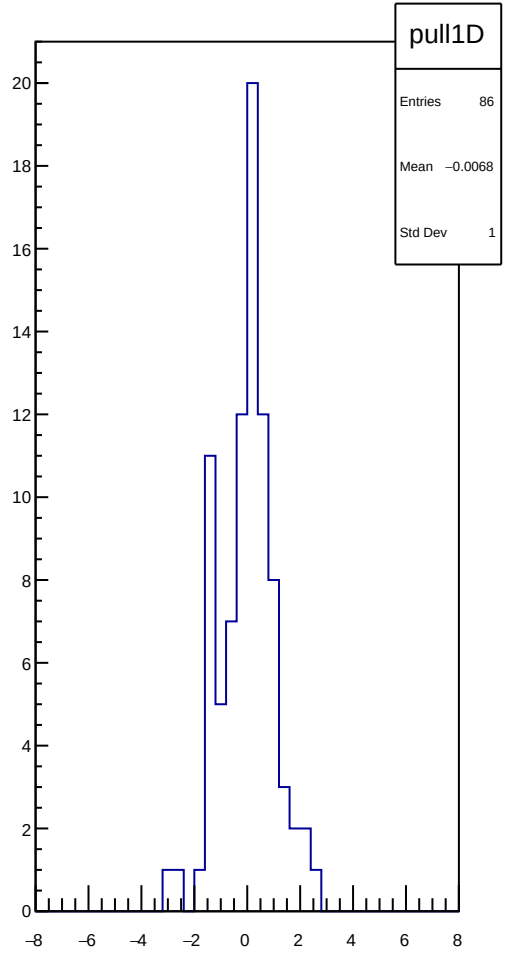

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.501e+04 / 85
p0 211.7 ± 0.1672
280
260
240
220
200
180

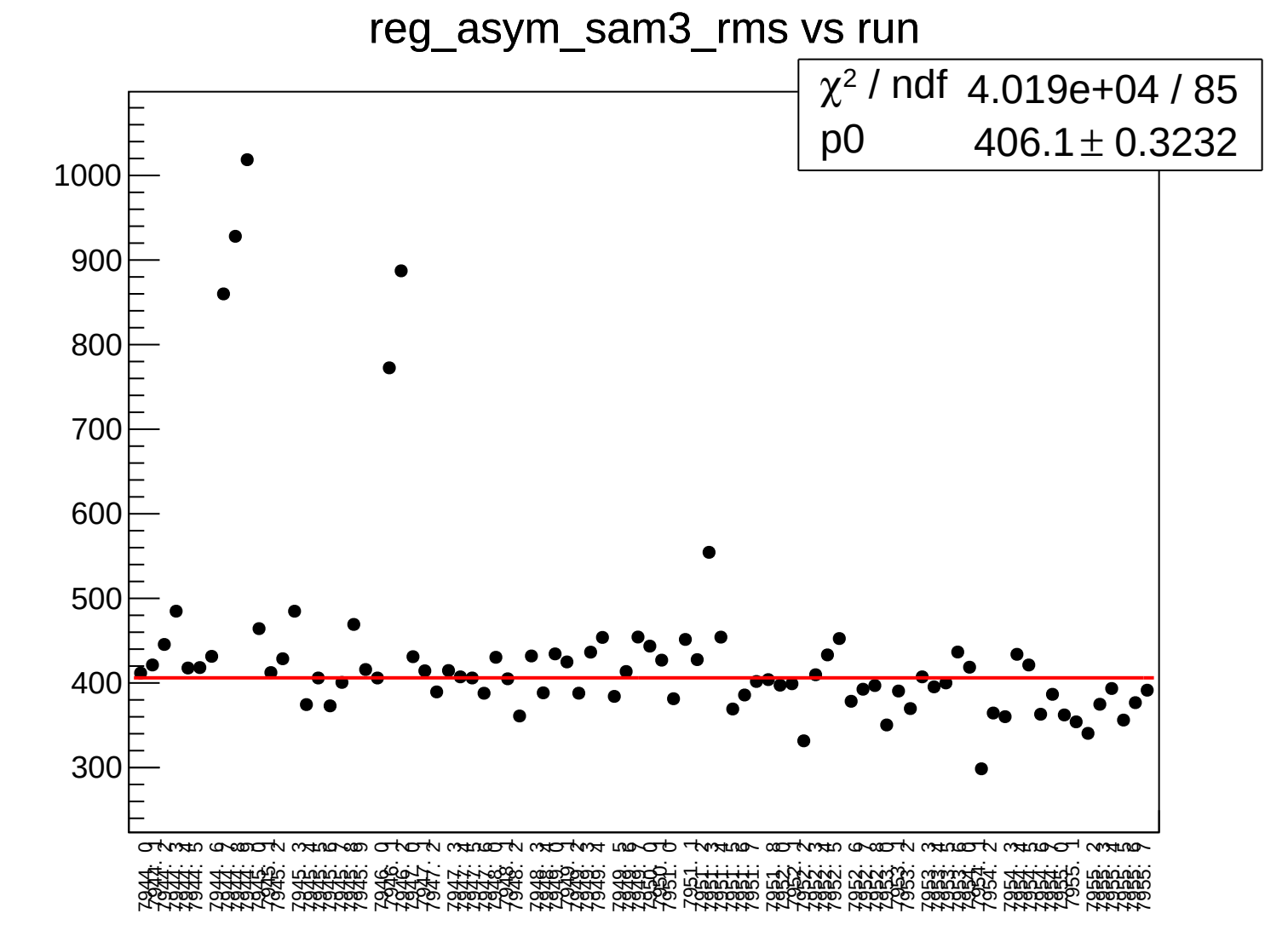

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.05 / 85
p0 4.868e−13 ± 5.736e−13
60
40
20
0
−20
−40
pull
Entries 86
Mean 70.04
Std Dev 38.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

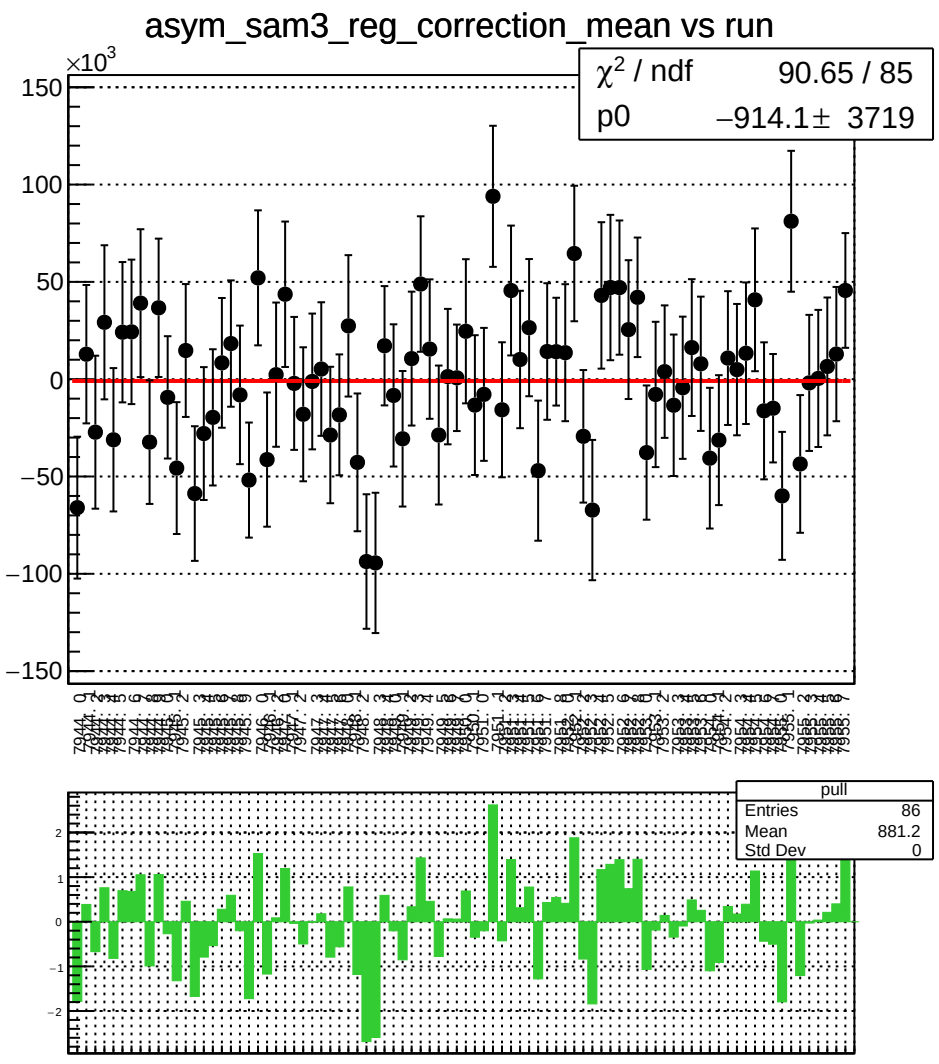

pull1D
Entries 86
Mean −0.0272
Std Dev 0.8693
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

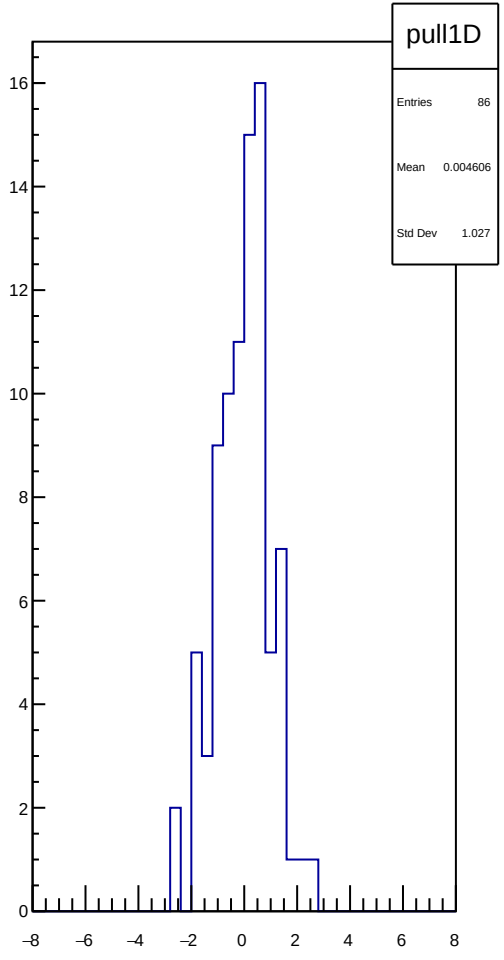

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.3e+05 / 85
p0 4.233e−10 ± 4.056e−13
2.5
2
1.5
1
0.5

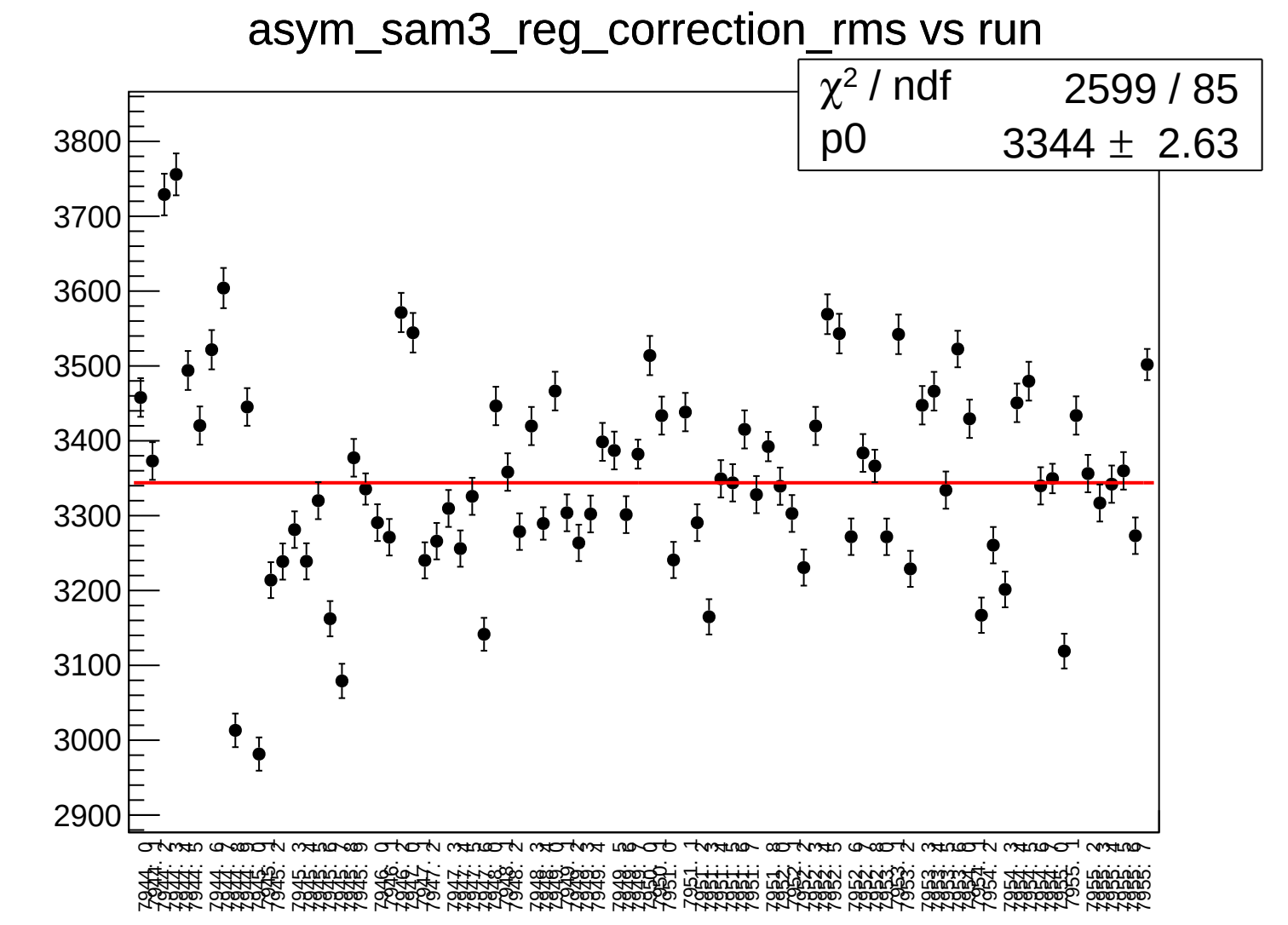

reg_asym_sam3_mean vs run
χ² / ndf 86.03 / 85
p0 327.4 ± 457
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −230.3
Std Dev 0
2
1
0
−1
−2
−3

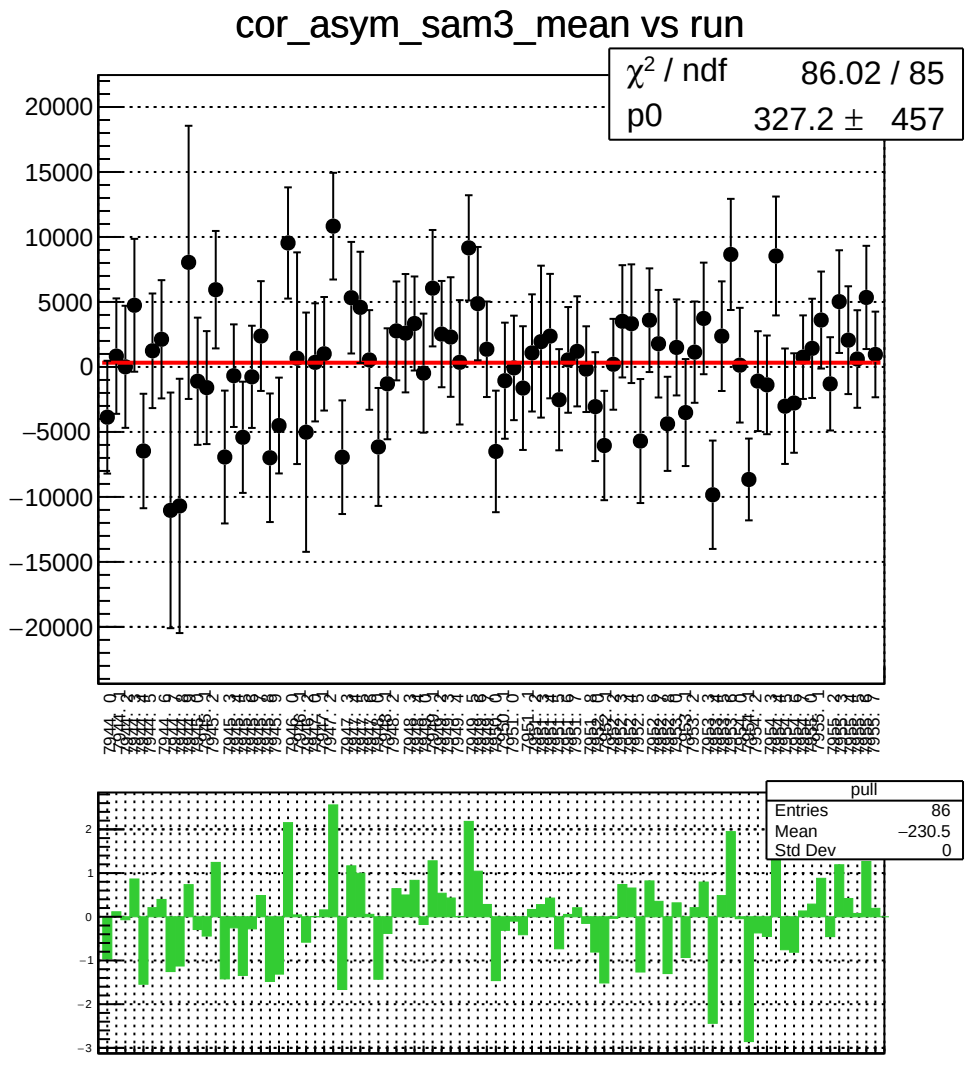

pull1D
Entries 86
Mean −0.0068
Std Dev 1
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

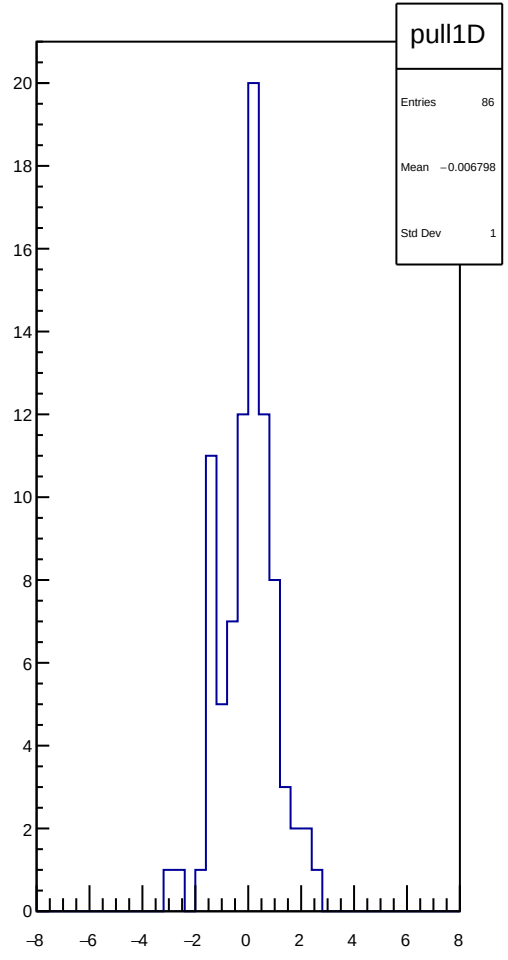

reg_asym_sam3_rms vs run
χ² / ndf 4.019e+04 / 85
p0 406.1 ± 0.3232
1000
900
800
700
600
500
400
300

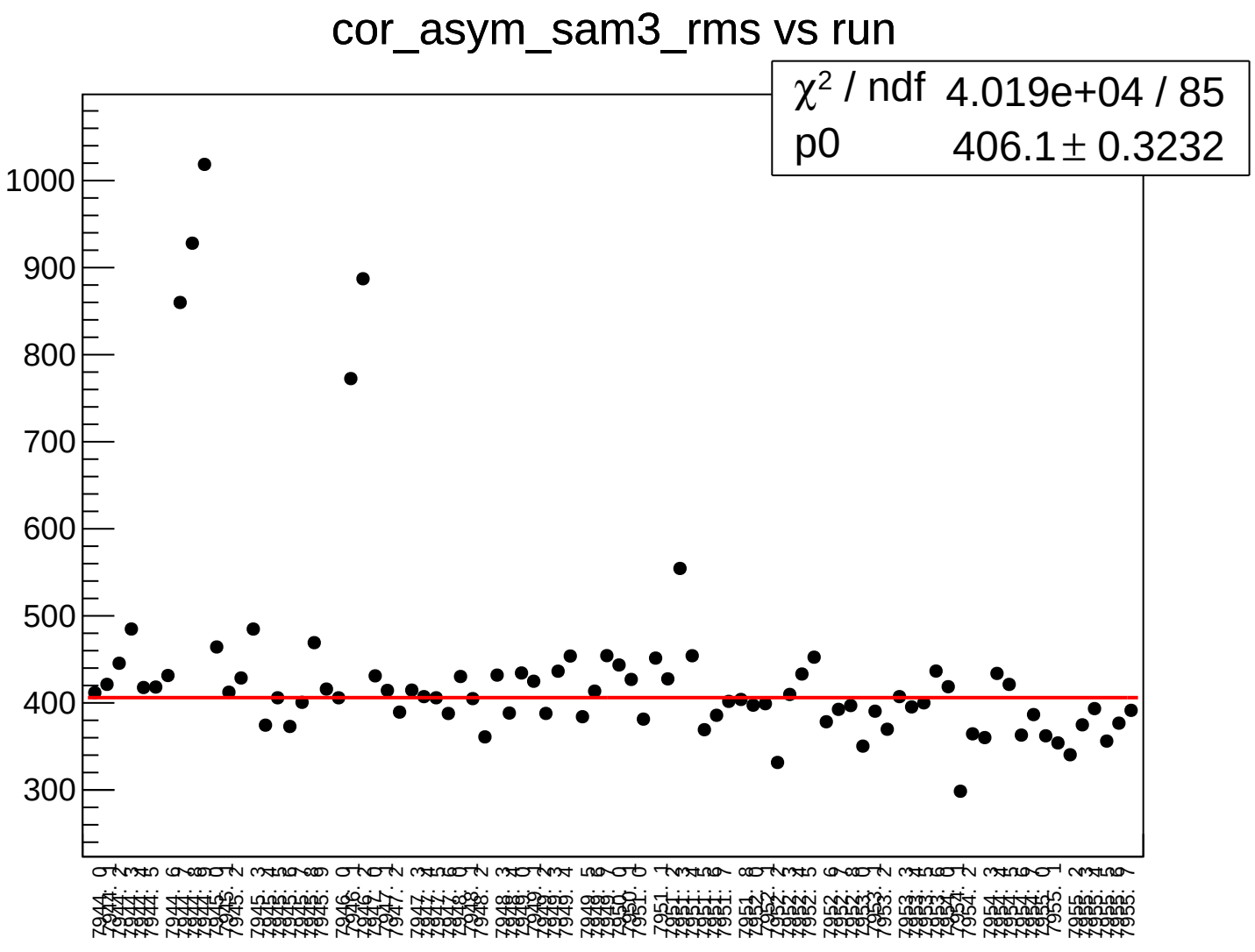

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 90.65 / 85
p0 −914.1± 3719
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 881.2
Std Dev 0
2
1
0
−1
−2

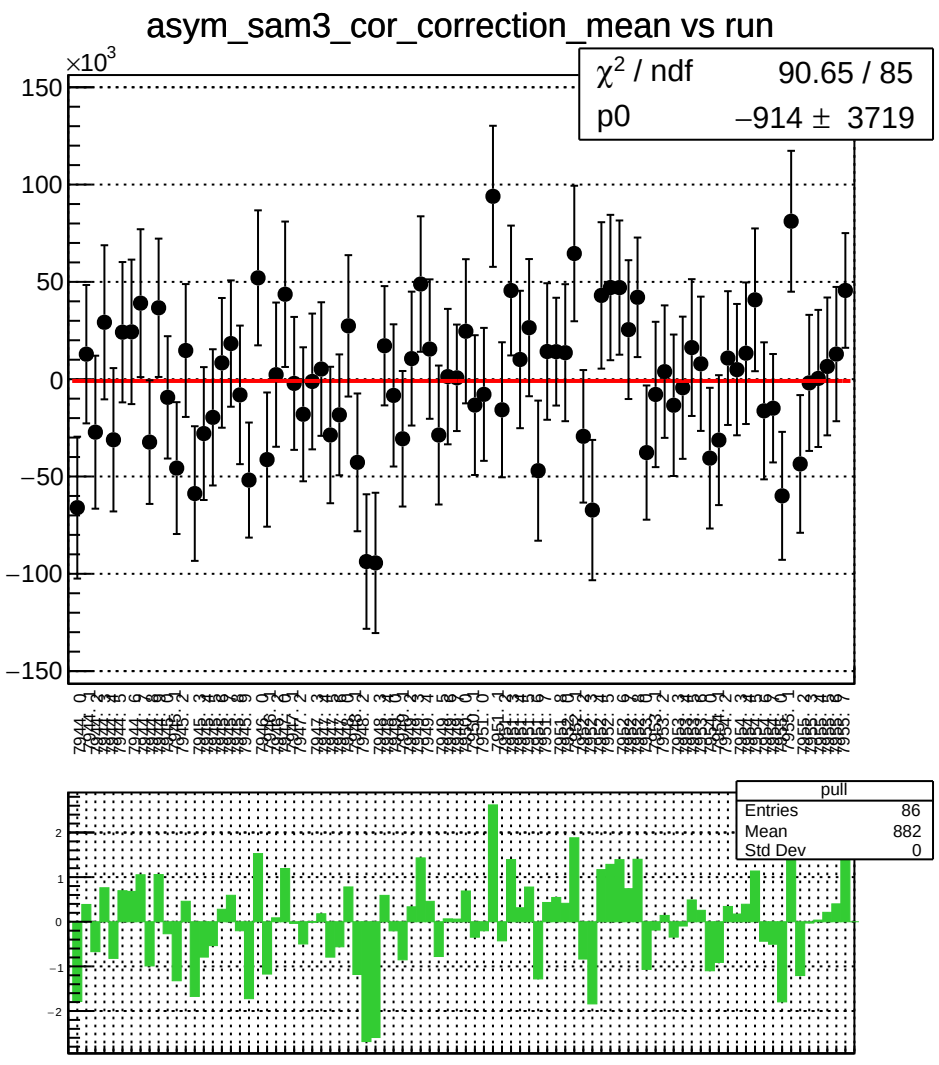

pull1D
Entries 86
Mean 0.004606
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

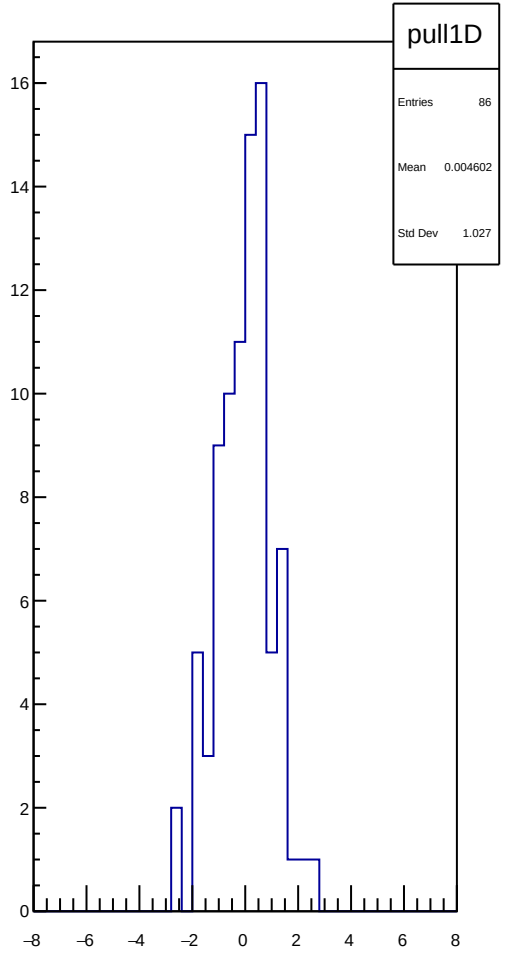

asym_sam3_reg_correction_rms vs run
χ² / ndf 2599 / 85
p0 3344 ± 2.63
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900

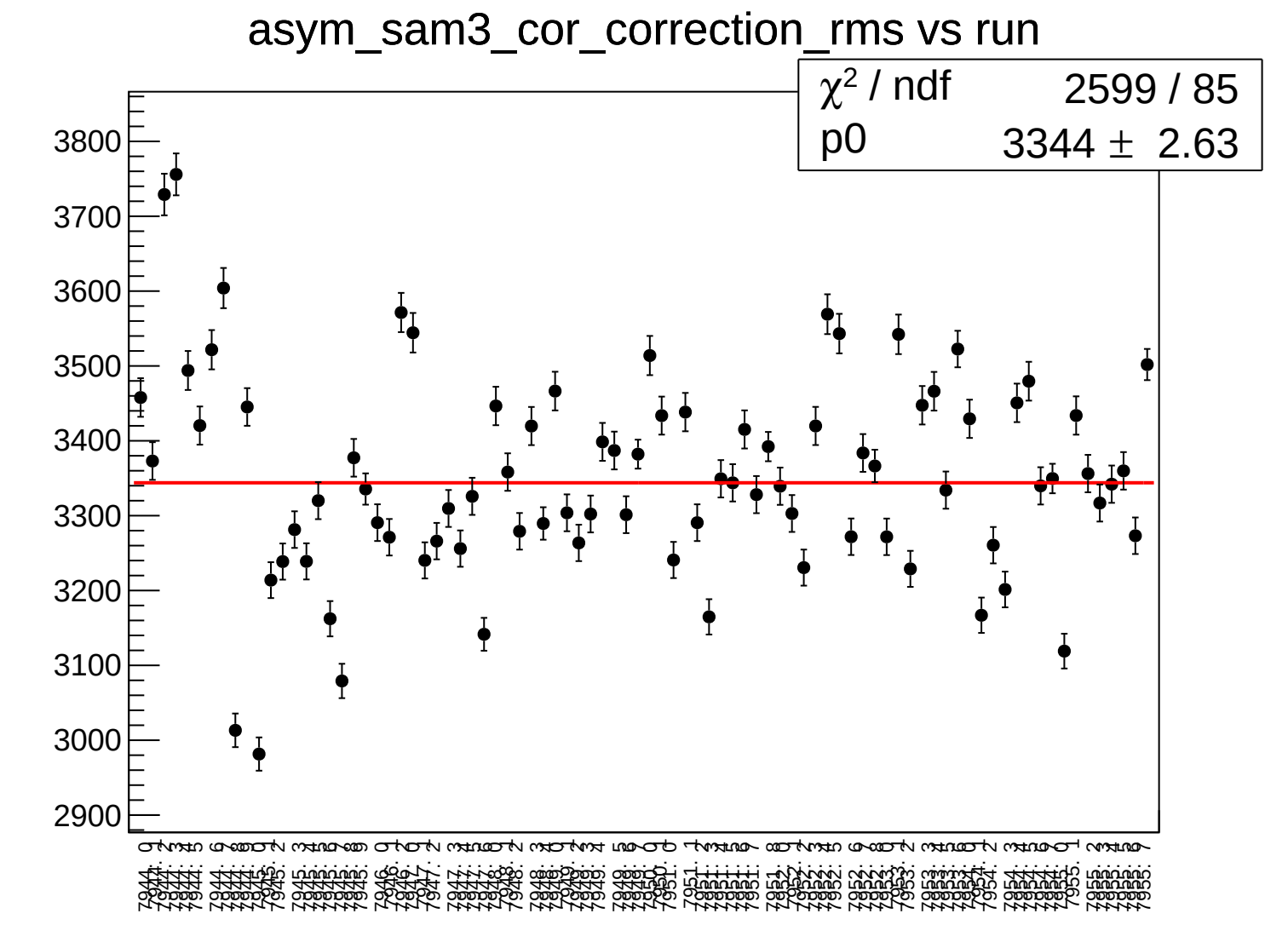

cor_asym_sam3_mean vs run
χ² / ndf 86.02 / 85
p0 327.2 ± 457
pull
Entries 86
Mean −230.5
Std Dev 0

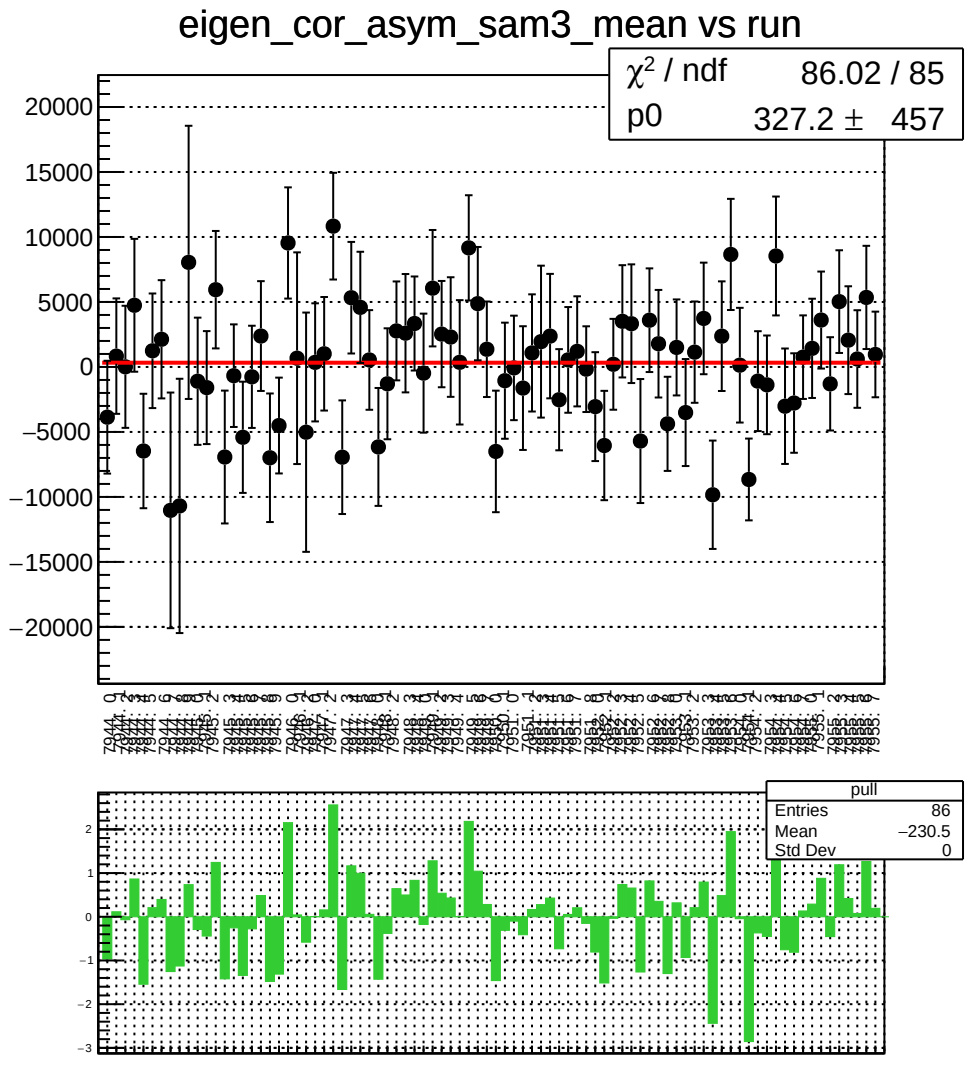

pull1D
Entries 86
Mean −0.006798
Std Dev 1

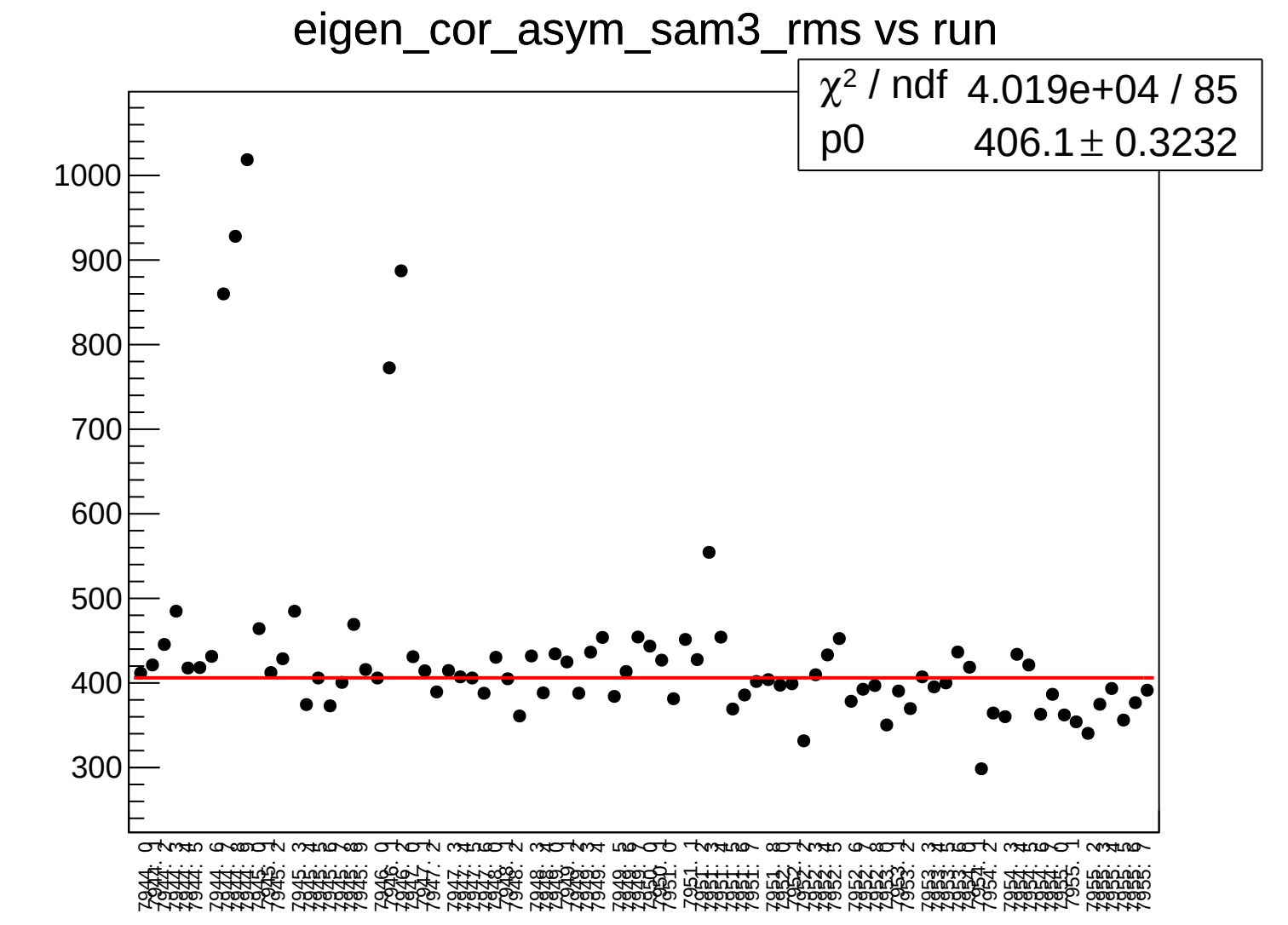

cor_asym_sam3_rms vs run
χ² / ndf 4.019e+04 / 85
p0 406.1 ± 0.3232
1000
900
800
700
600
500
400
300

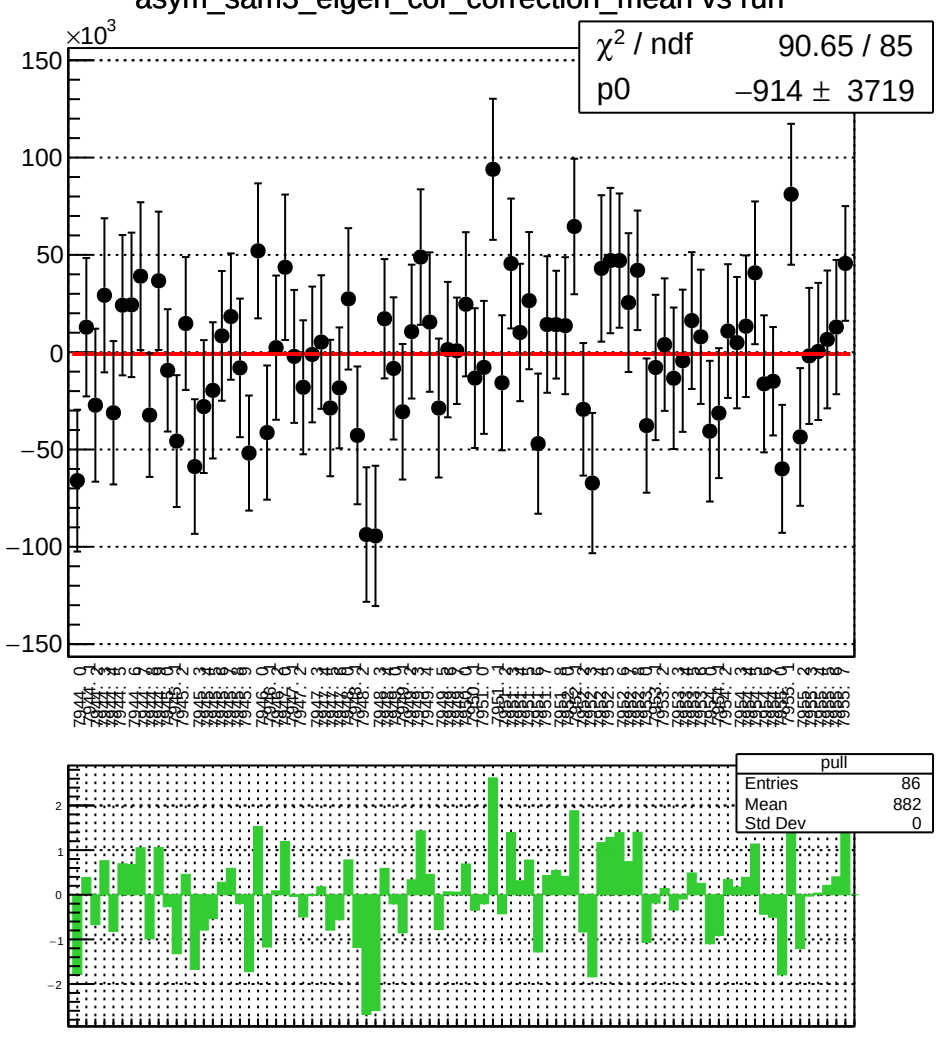

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 90.65 / 85
p0 −914 ± 3719
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 882
Std Dev 0
2
1
0
−1
−2

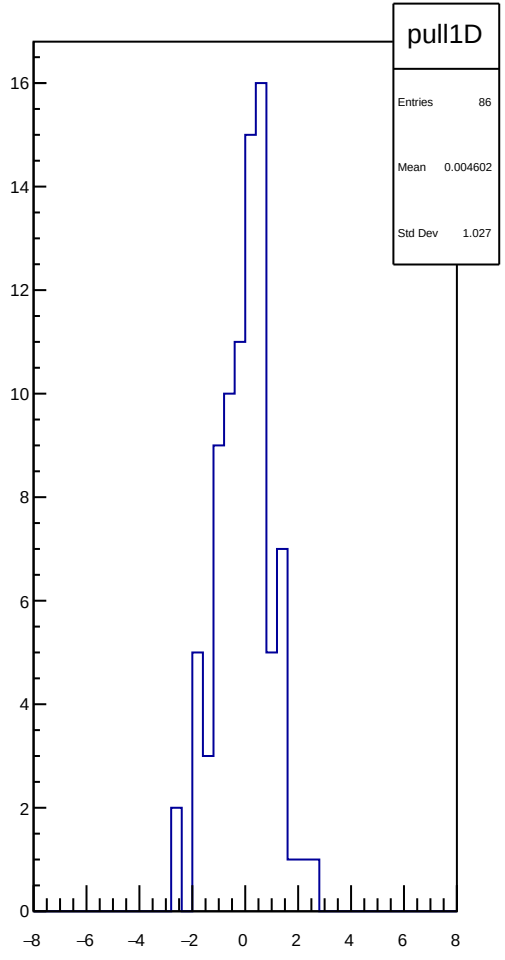

pull1D
Entries 86
Mean 0.004602
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

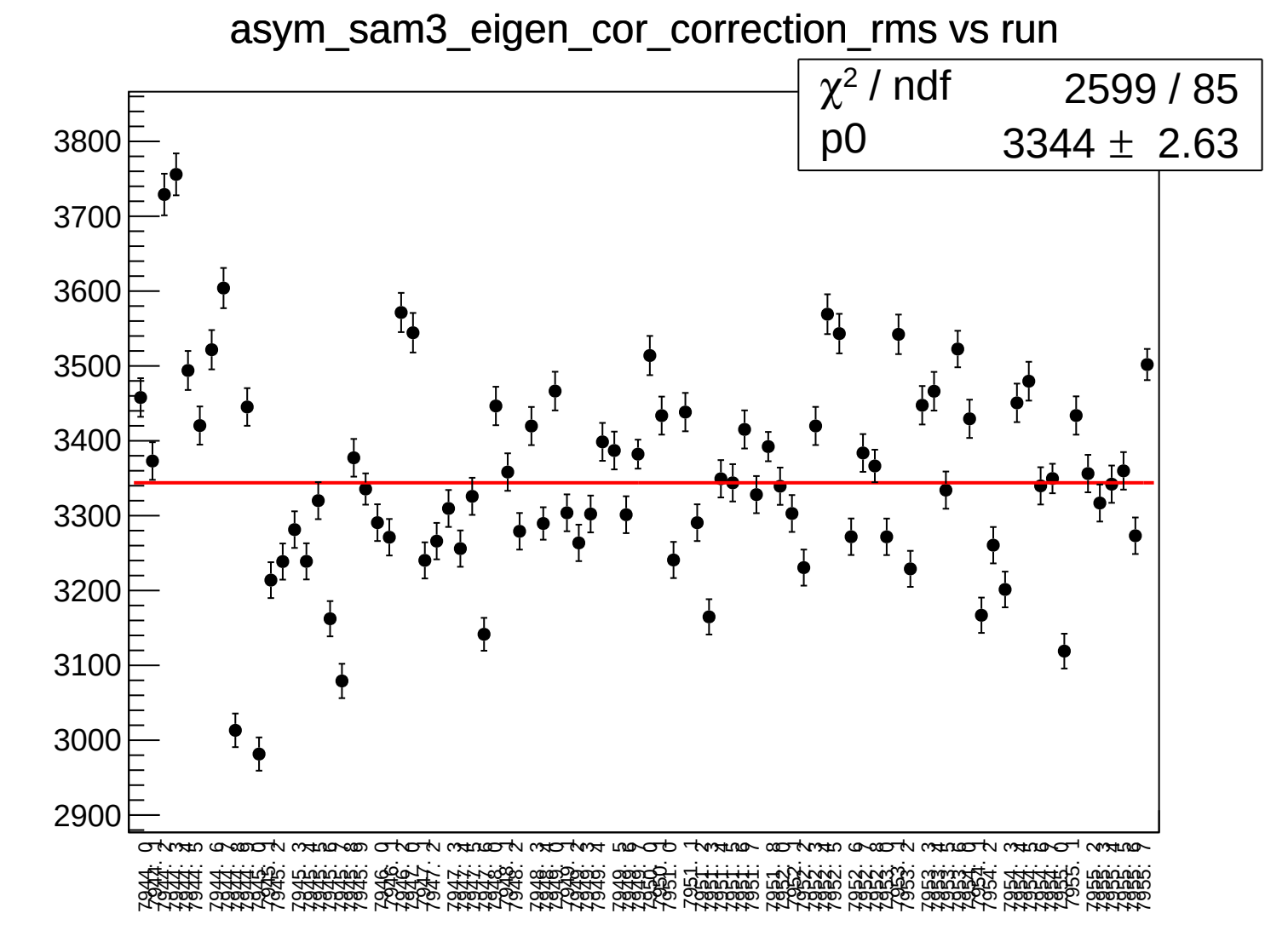

asym_sam3_cor_correction_rms vs run
χ² / ndf 2599 / 85
p0 3344 ± 2.63
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900

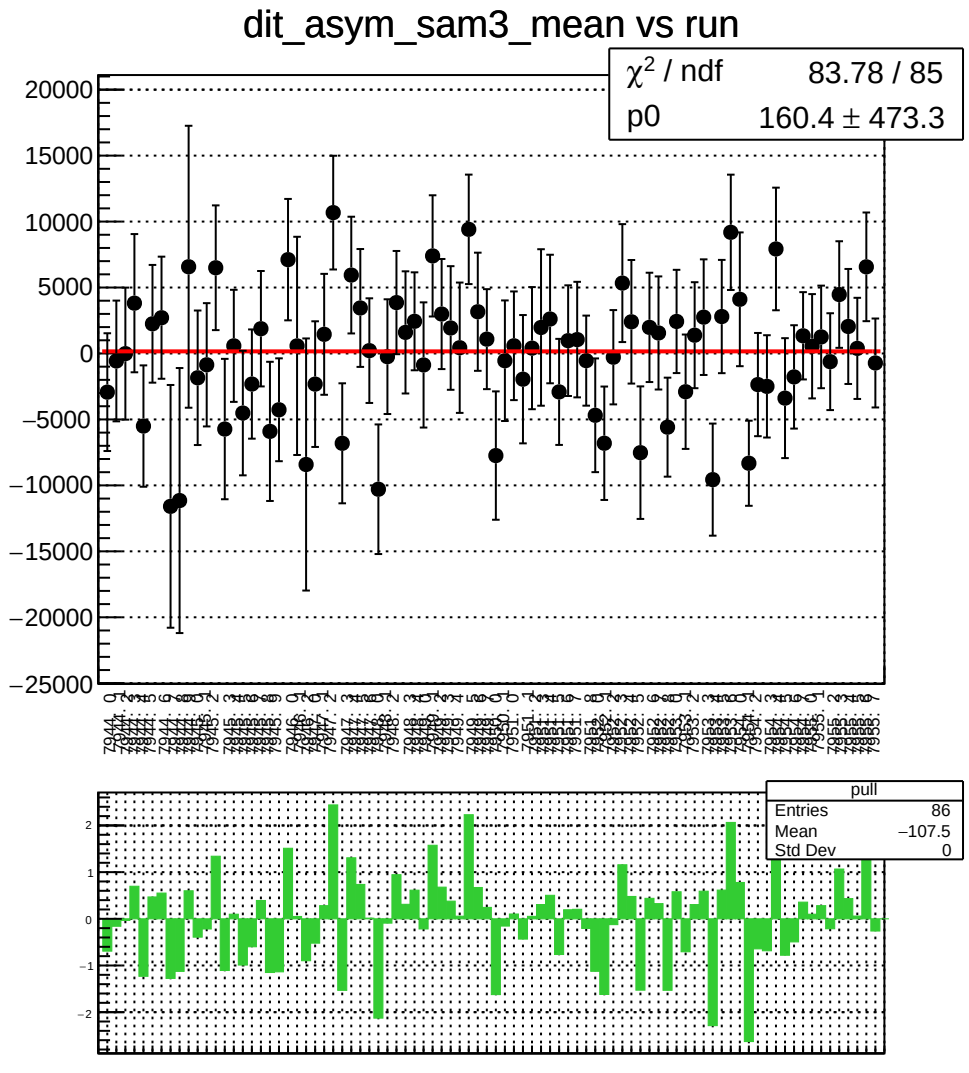

eigen_cor_asym_sam3_mean vs run
χ² / ndf 86.02 / 85
p0 327.2 ± 457
pull
Entries 86
Mean −230.5
Std Dev 0
pull1D
Entries 86
Mean −0.006798
Std Dev 1

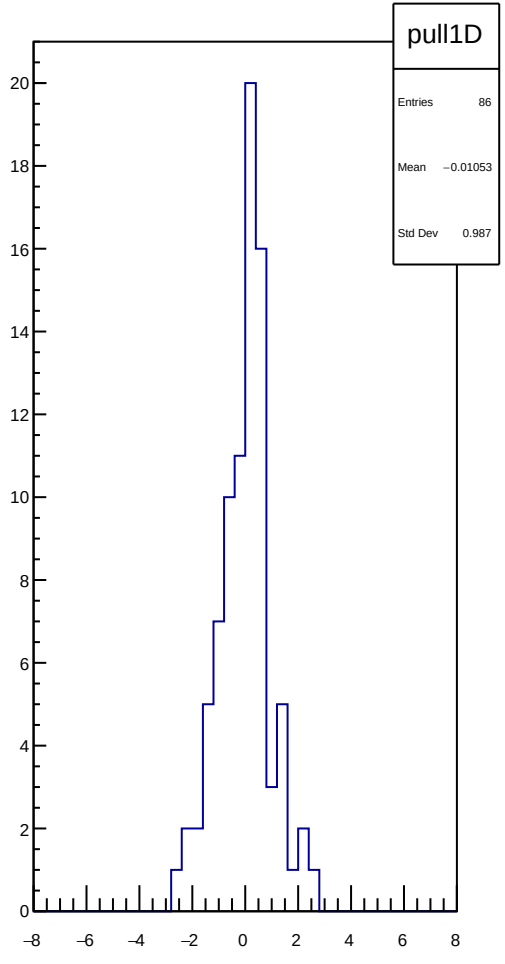

eigen_cor_asym_sam3_rms vs run
χ² / ndf 4.019e+04 / 85
p0 406.1 ± 0.3232
1000
900
800
700
600
500
400
300


asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.65 / 85
p0 −914 ± 3719
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 882
Std Dev 0
2
1
0
−1
−2

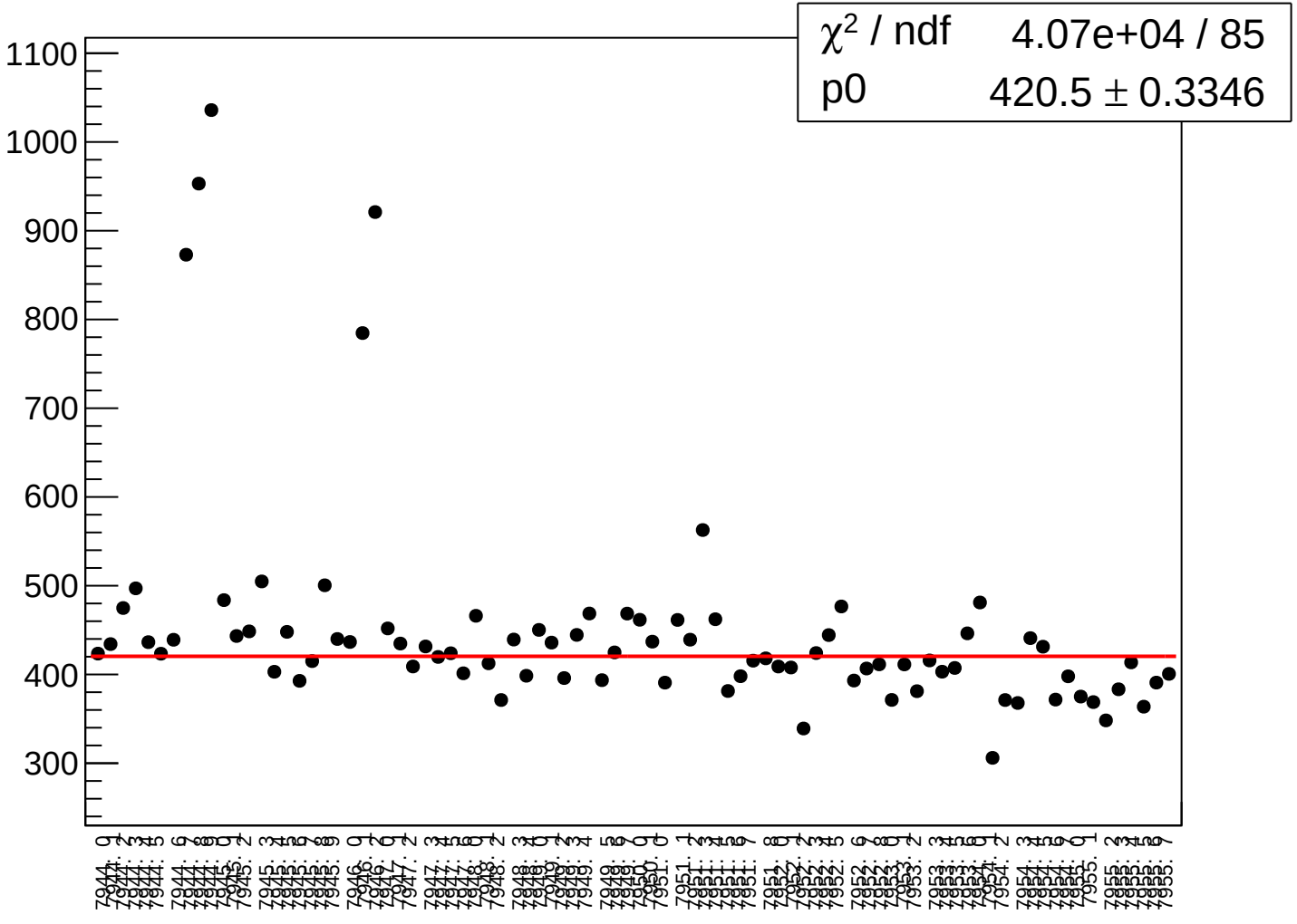

pull1D
Entries 86
Mean 0.004602
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

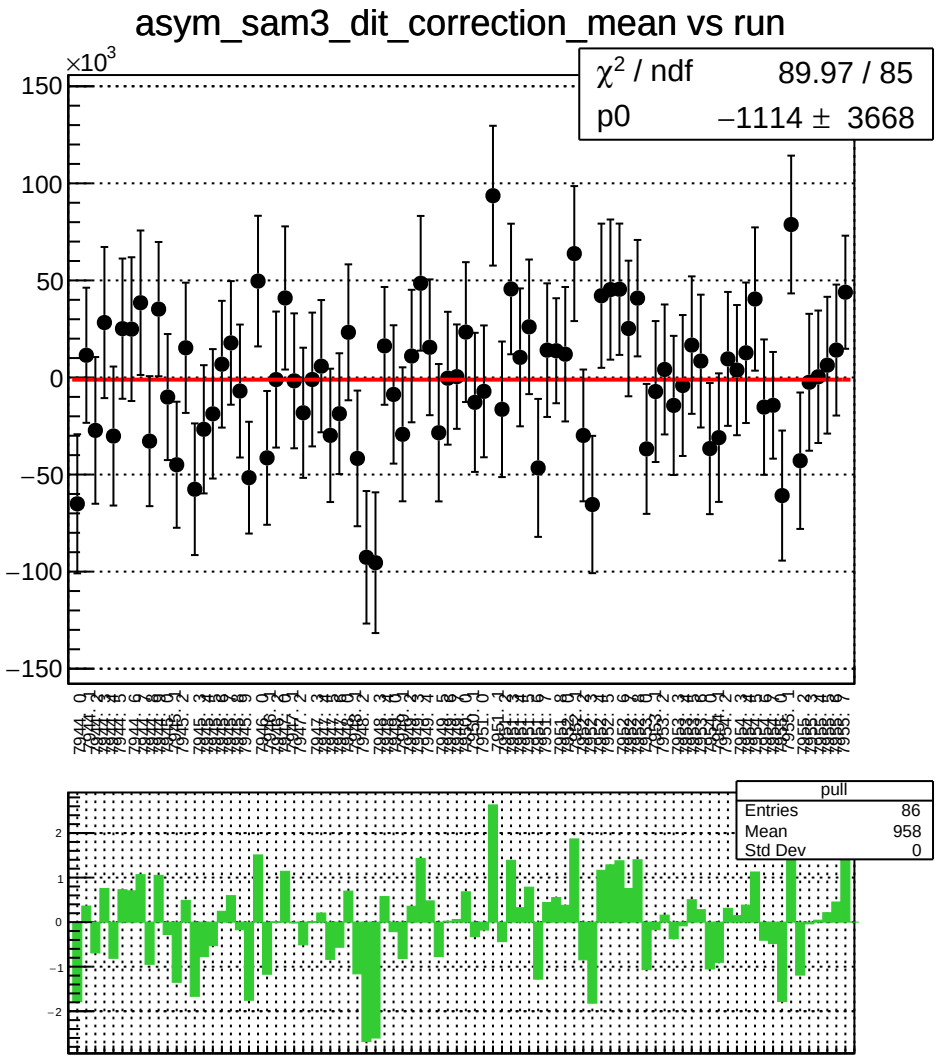

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 2599 / 85
p0 3344 ± 2.63
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900

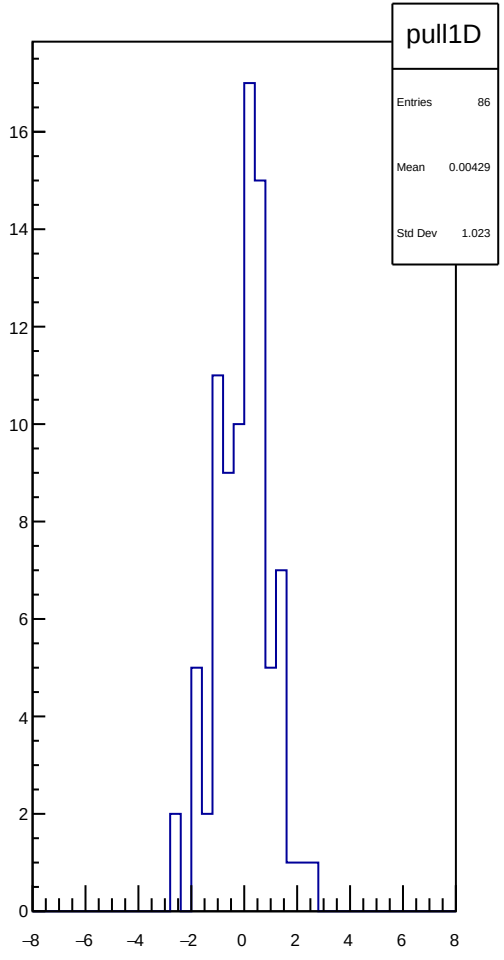

dit_asym_sam3_mean vs run
χ^2 / ndf 83.78 / 85
p0 160.4 ± 473.3
pull
Entries 86
Mean −107.5
Std Dev 0

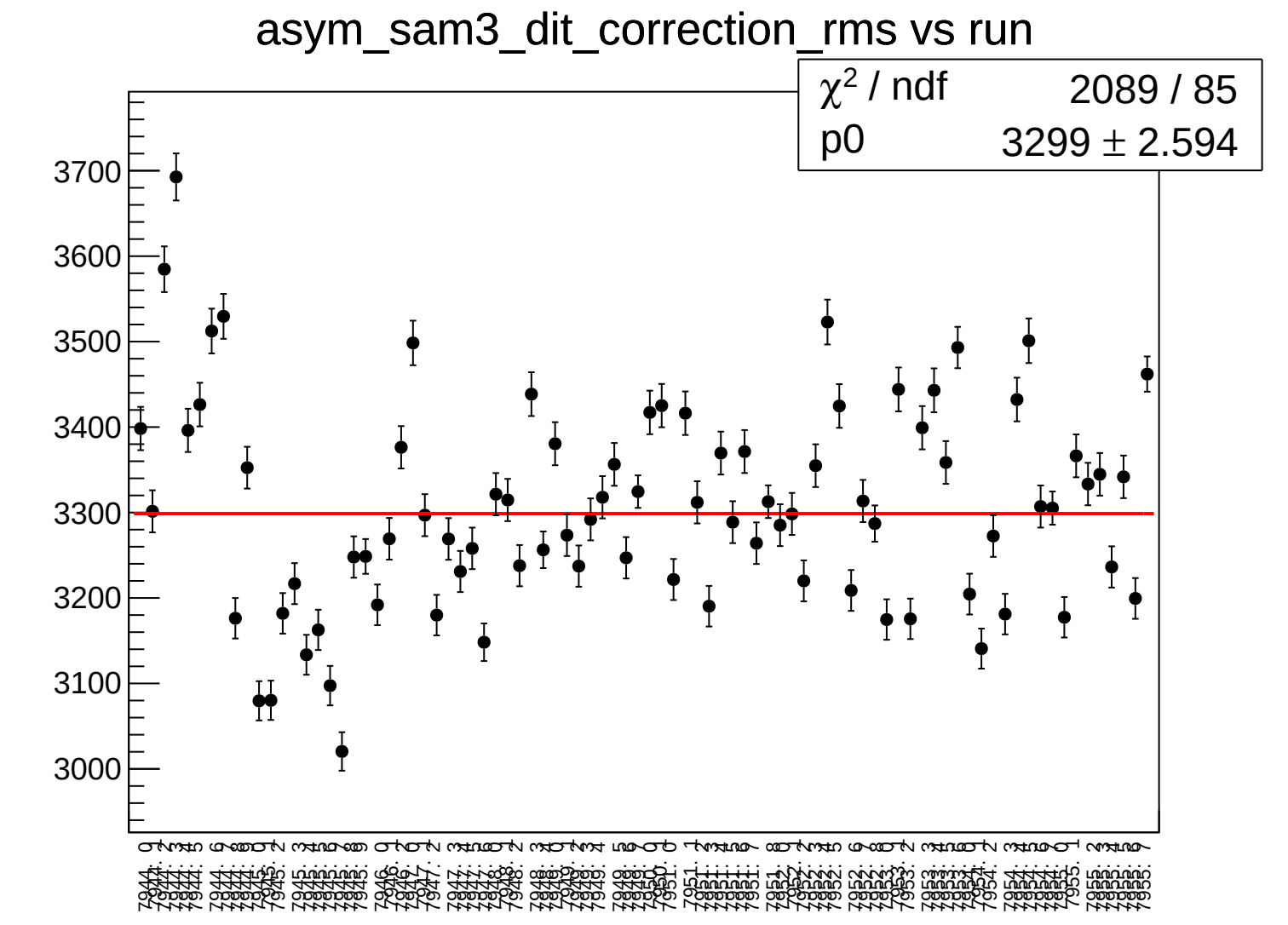

pull1D
Entries 86
Mean −0.01053
Std Dev 0.987

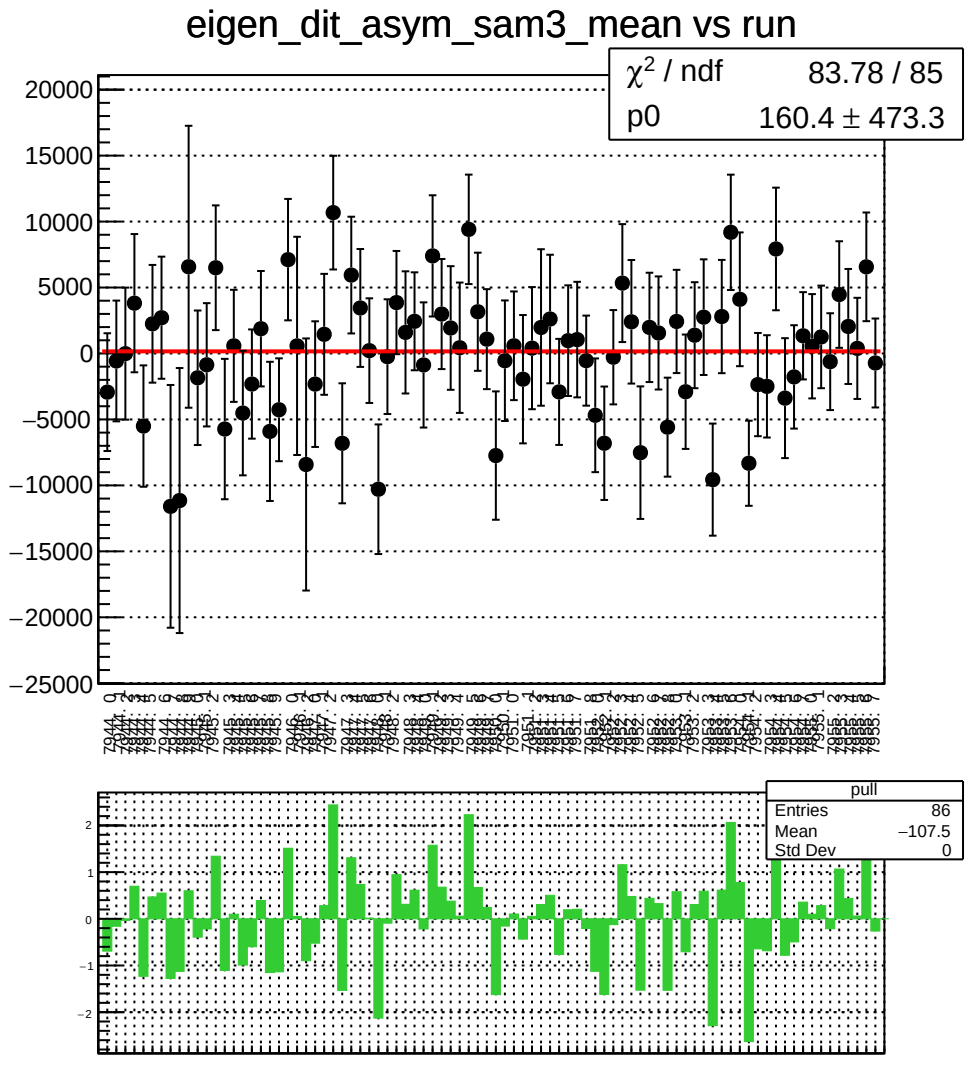
dit_asym_sam3_rms vs run

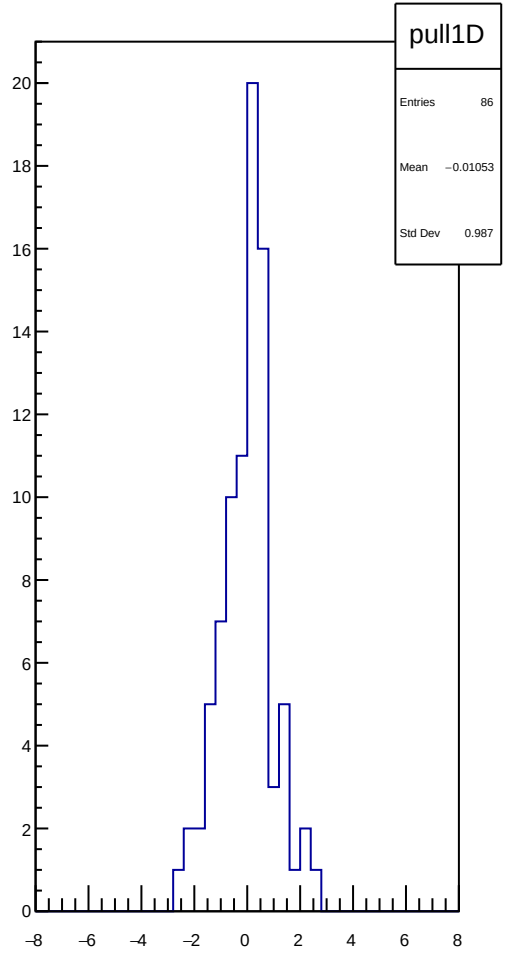


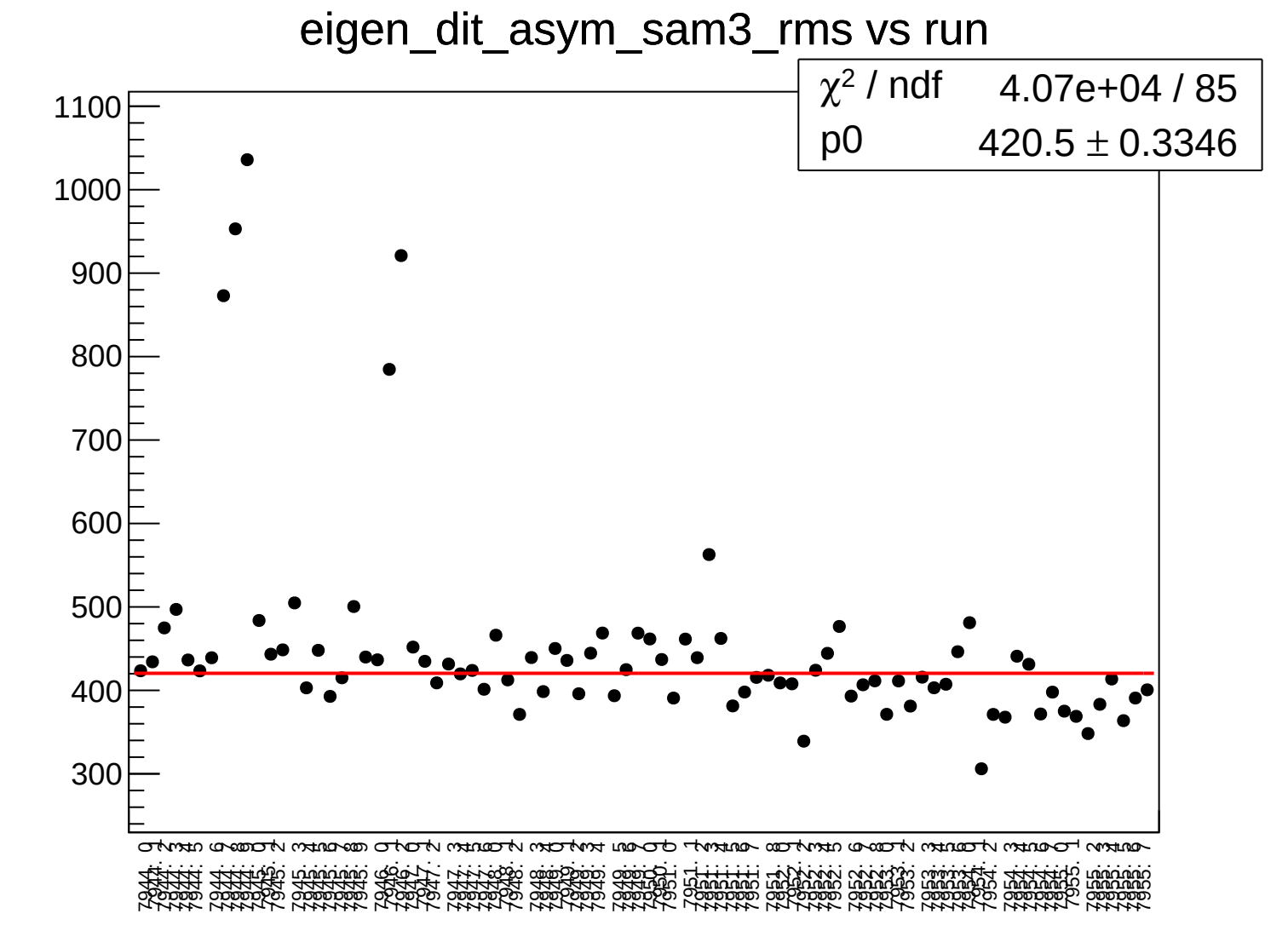

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 89.97 / 85
p0 −1114 ± 3668
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 958
Std Dev 0
2
1
0
−1
−2

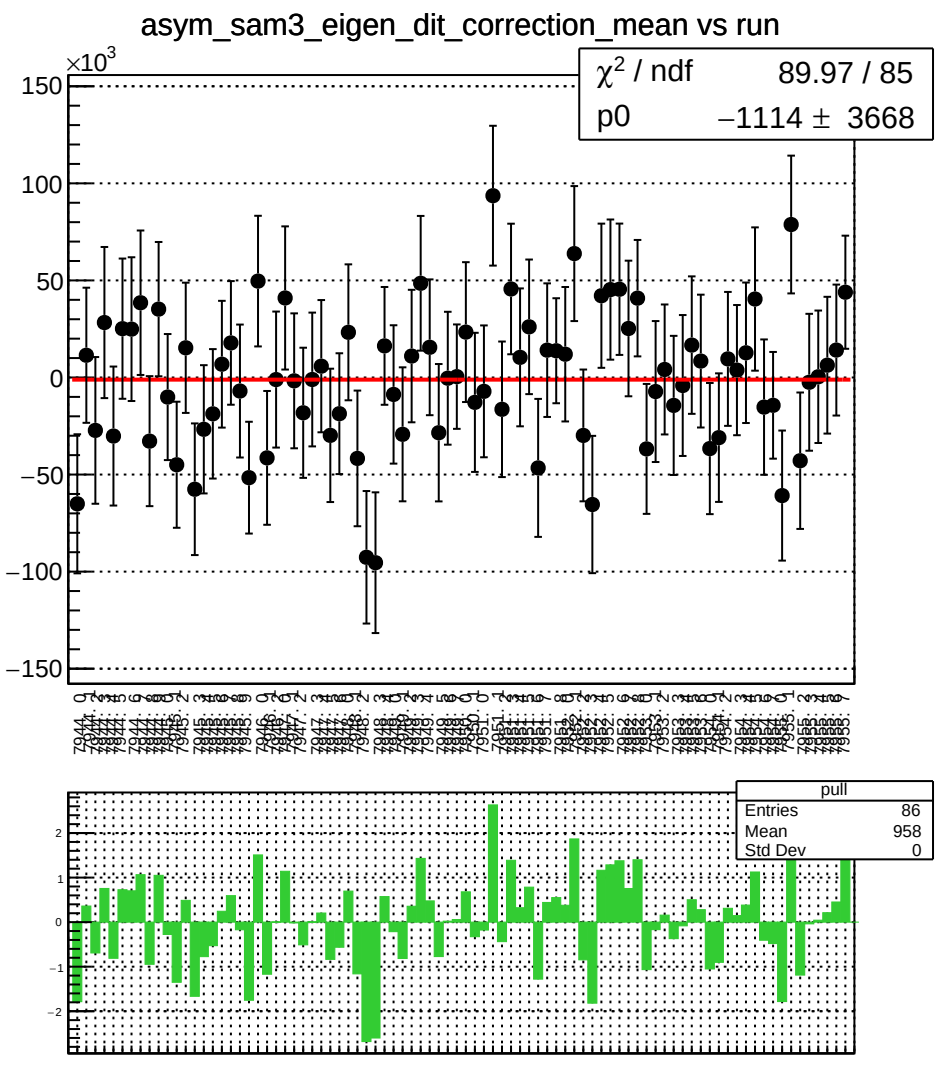

pull1D
Entries 86
Mean 0.00429
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

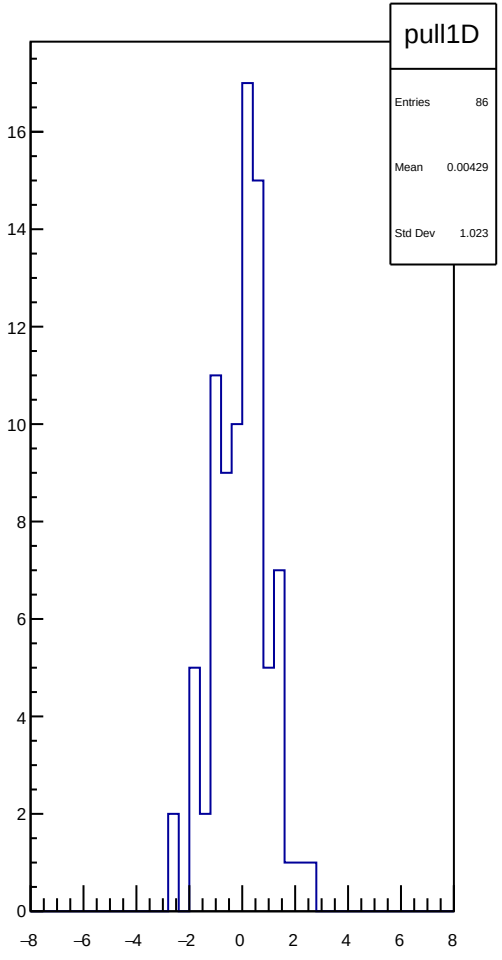

asym_sam3_dit_correction_rms vs run
χ² / ndf 2089 / 85
p0 3299 ± 2.594
3700
3600
3500
3400
3300
3200
3100
3000

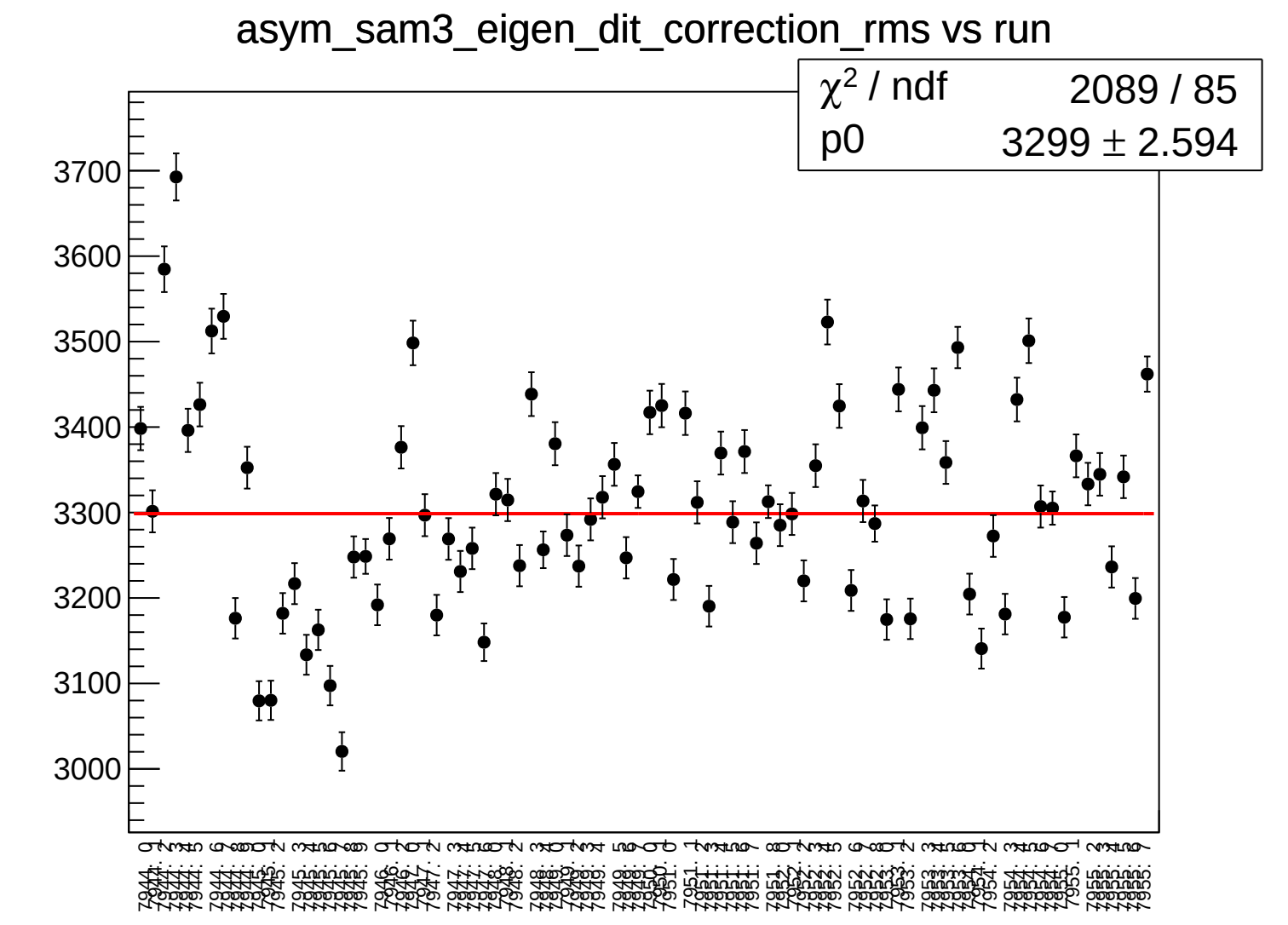

eigen_dit_asym_sam3_mean vs run
χ² / ndf 83.78 / 85
p0 160.4 ± 473.3
pull
Entries 86
Mean −107.5
Std Dev 0

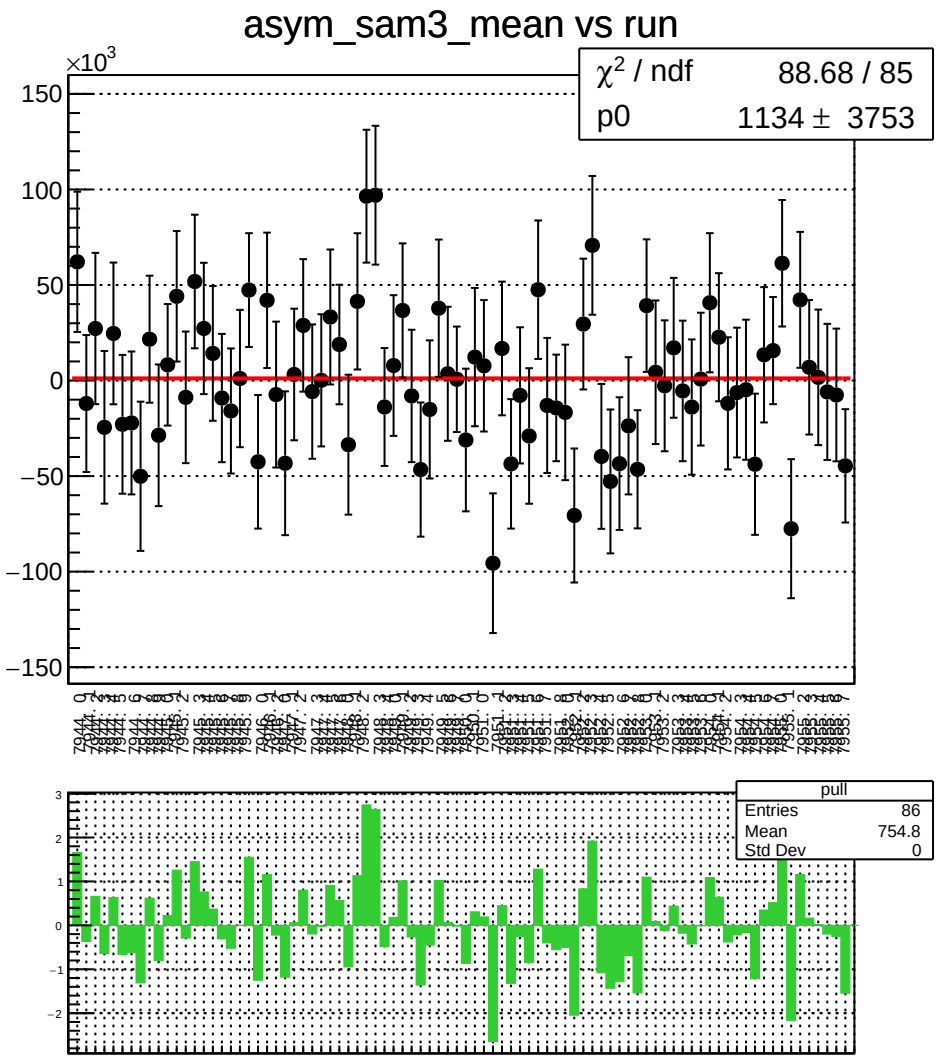

pull1D
Entries 86
Mean −0.01053
Std Dev 0.987

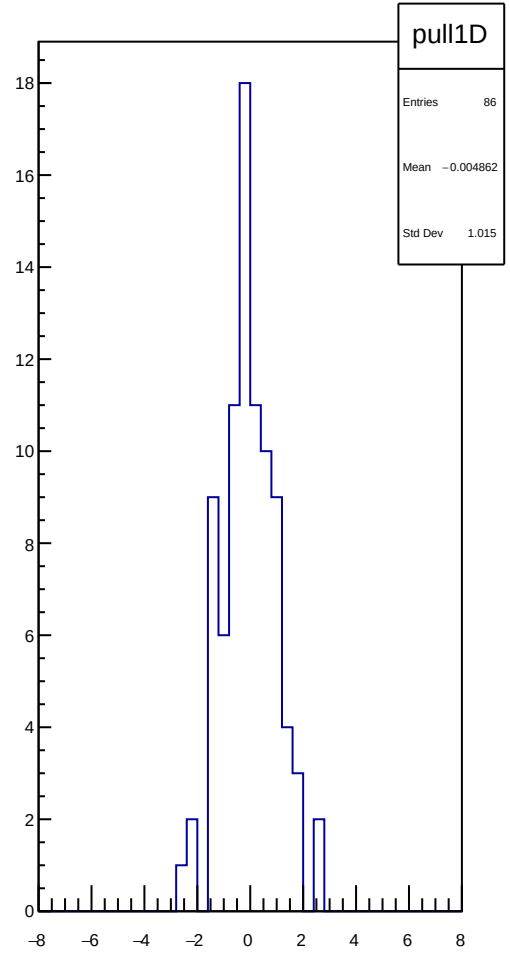

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 4.07e+04 / 85
p0 420.5 ± 0.3346
1100
1000
900
800
700
600
500
400
300

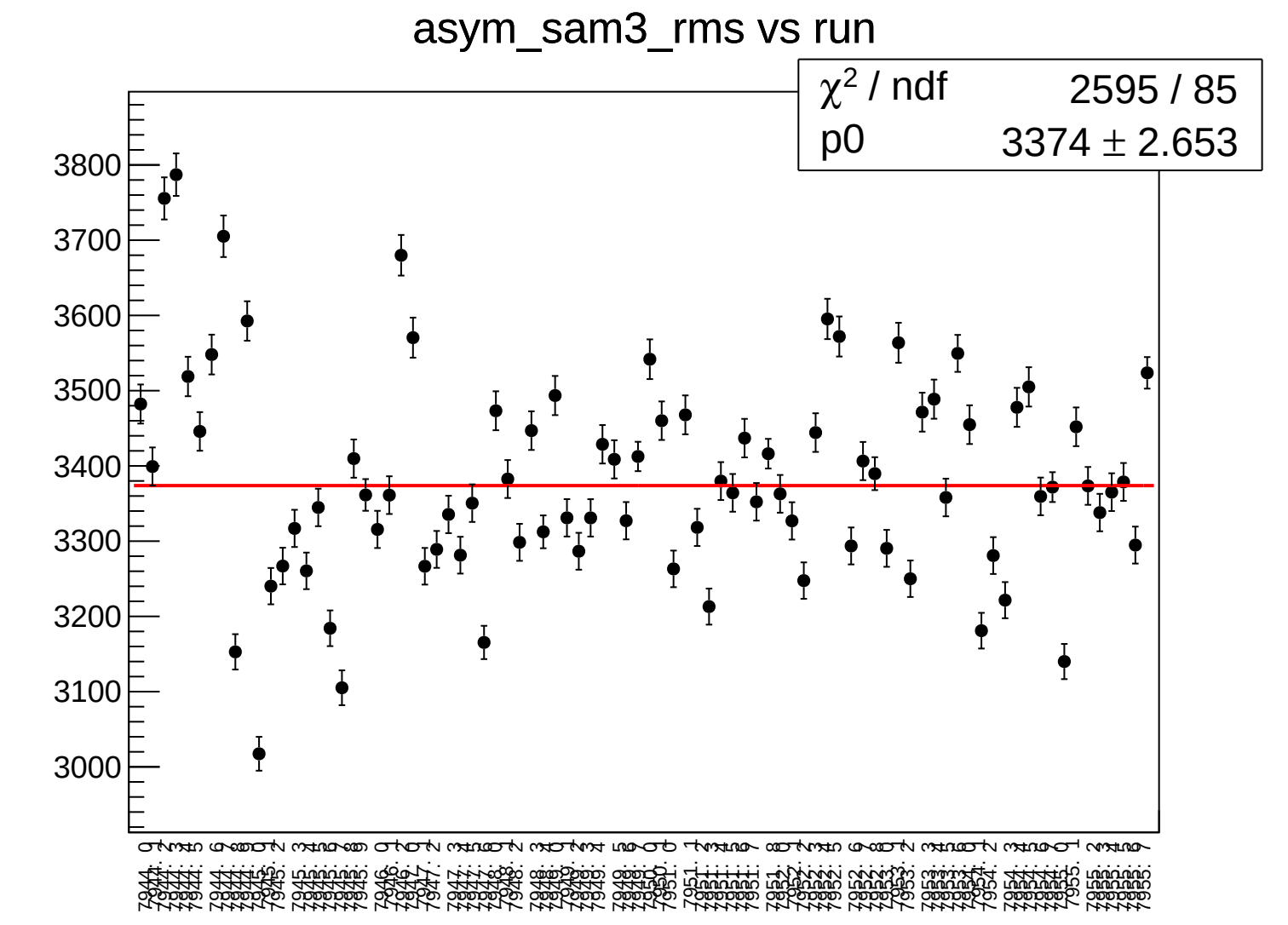

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.97 / 85
p0 −1114 ± 3668
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 958
Std Dev 0
2
1
0
−1
−2

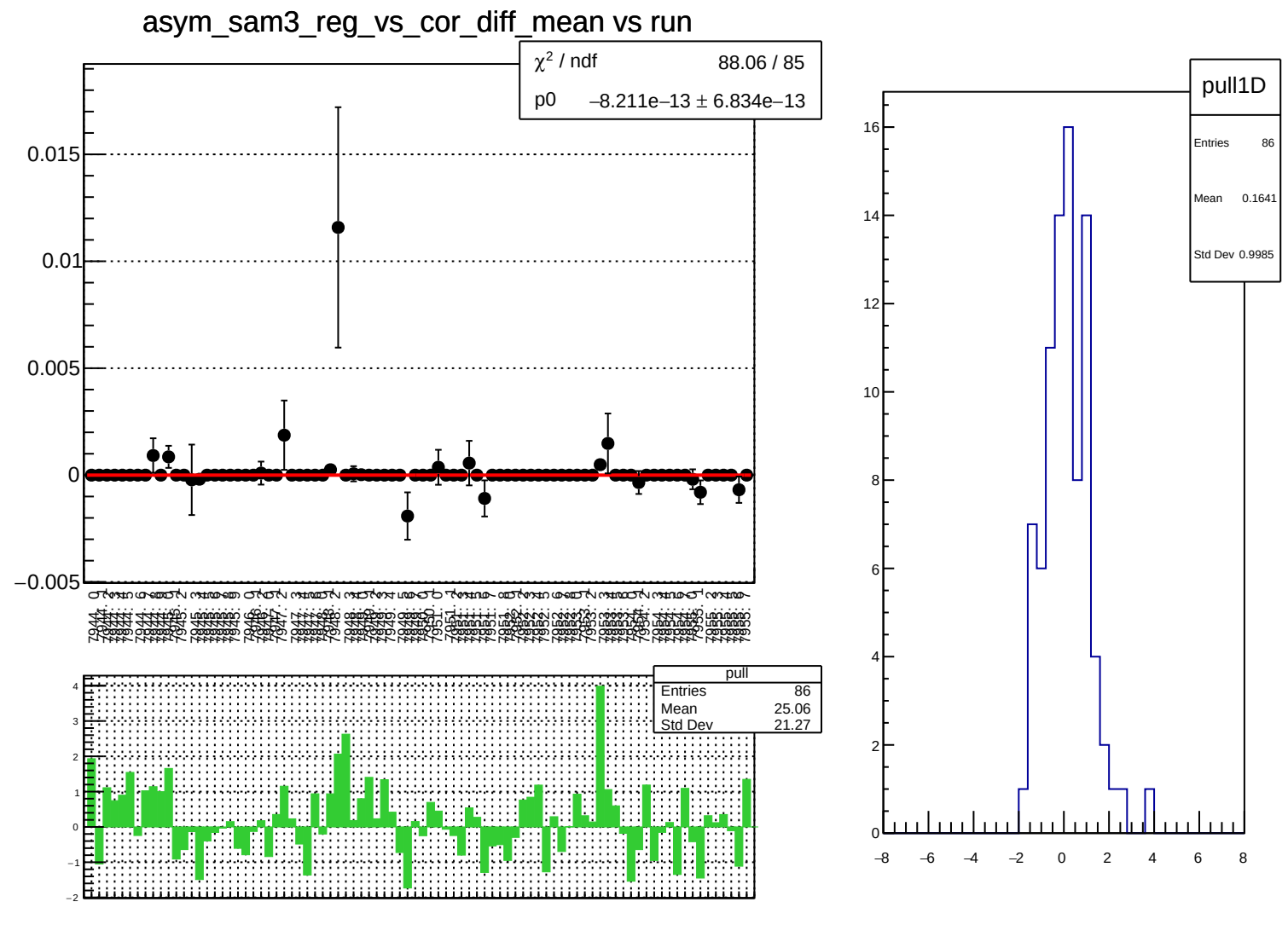

pull1D
Entries 86
Mean 0.00429
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

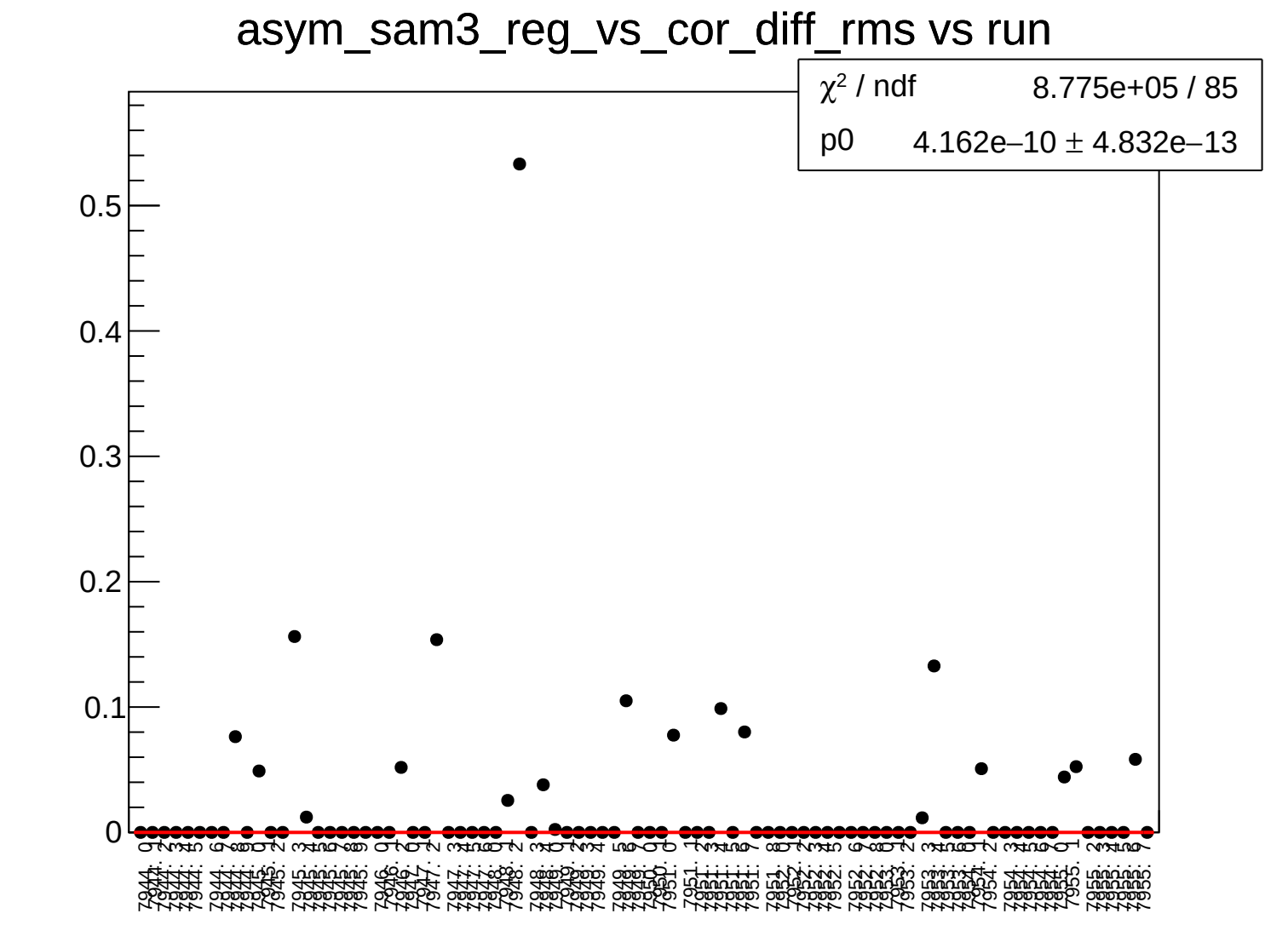

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2089 / 85
p0 3299 ± 2.594
3700
3600
3500
3400
3300
3200
3100
3000

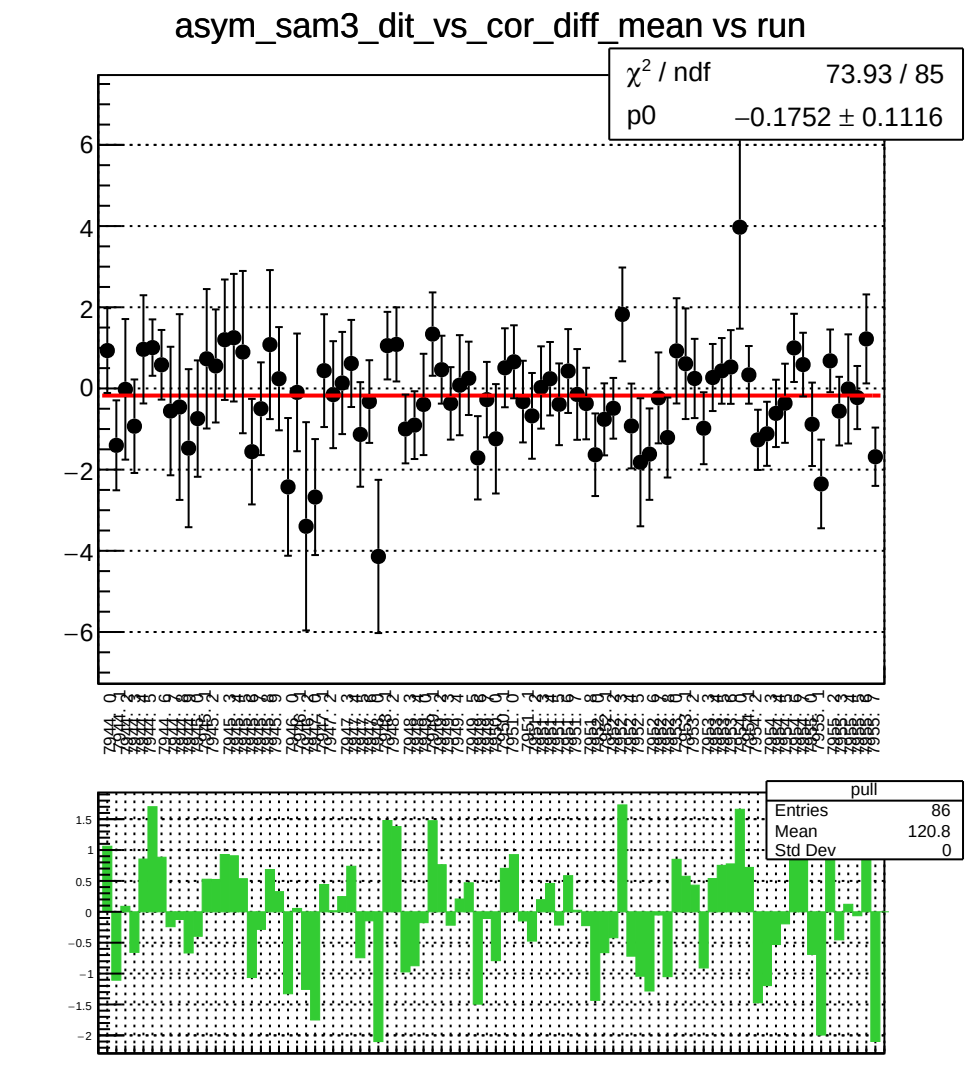

asym_sam3_mean vs run
×10^3
χ^2 / ndf 88.68 / 85
p0 1134 ± 3753
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 754.8
Std Dev 0
3
2
1
0
−1
−2

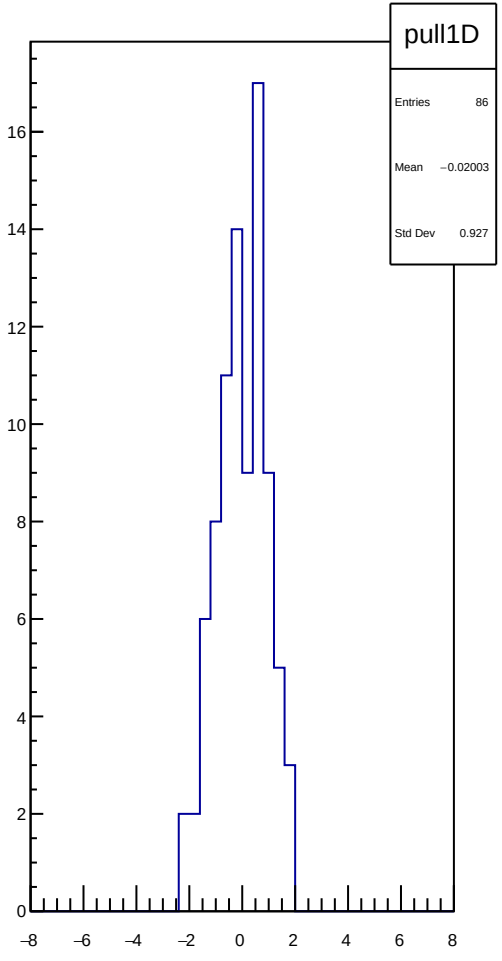

pull1D
Entries 86
Mean −0.004862
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

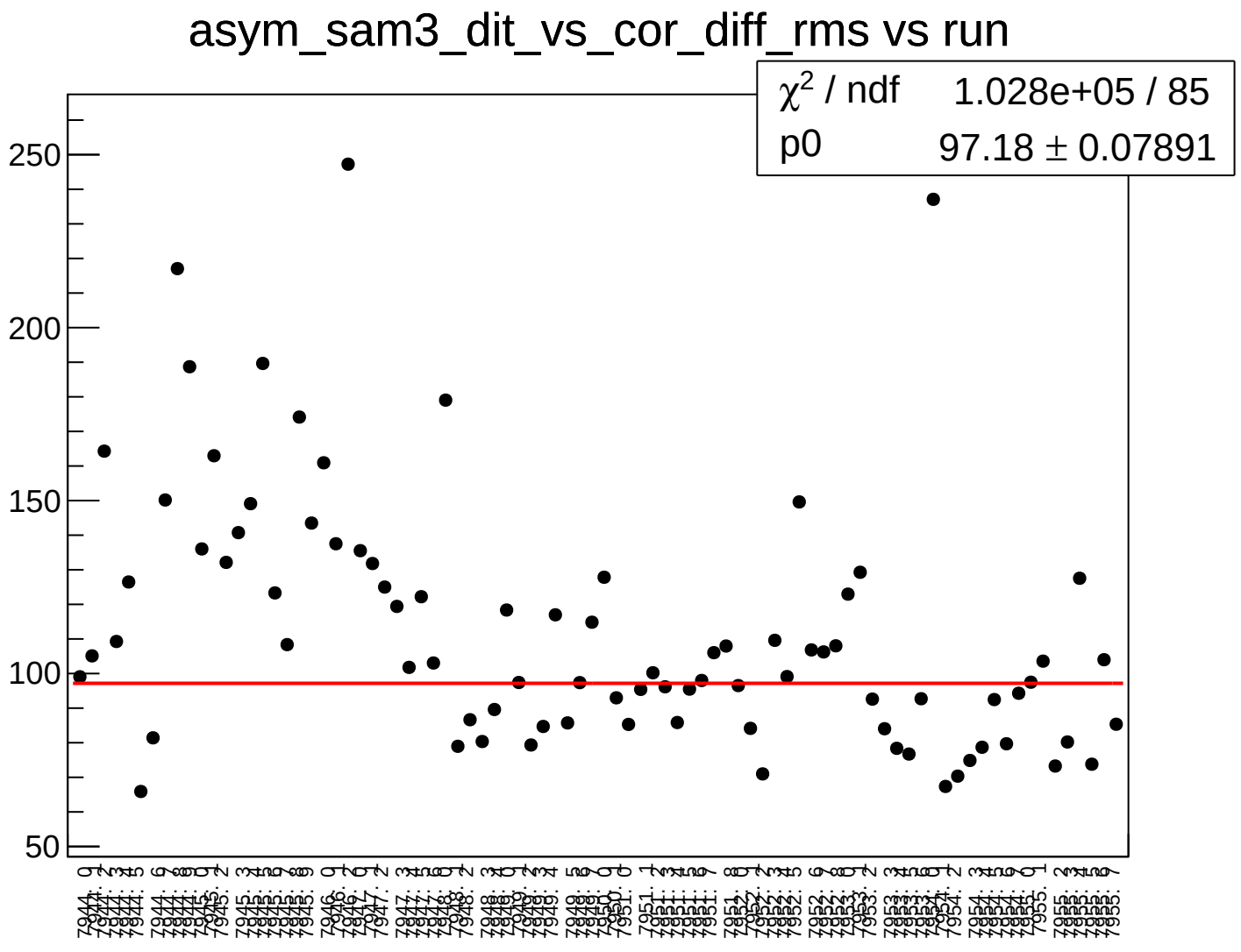

asym_sam3_rms vs run
χ^2 / ndf 2595 / 85
p0 3374 ± 2.653
3800
3700
3600
3500
3400
3300
3200
3100
3000

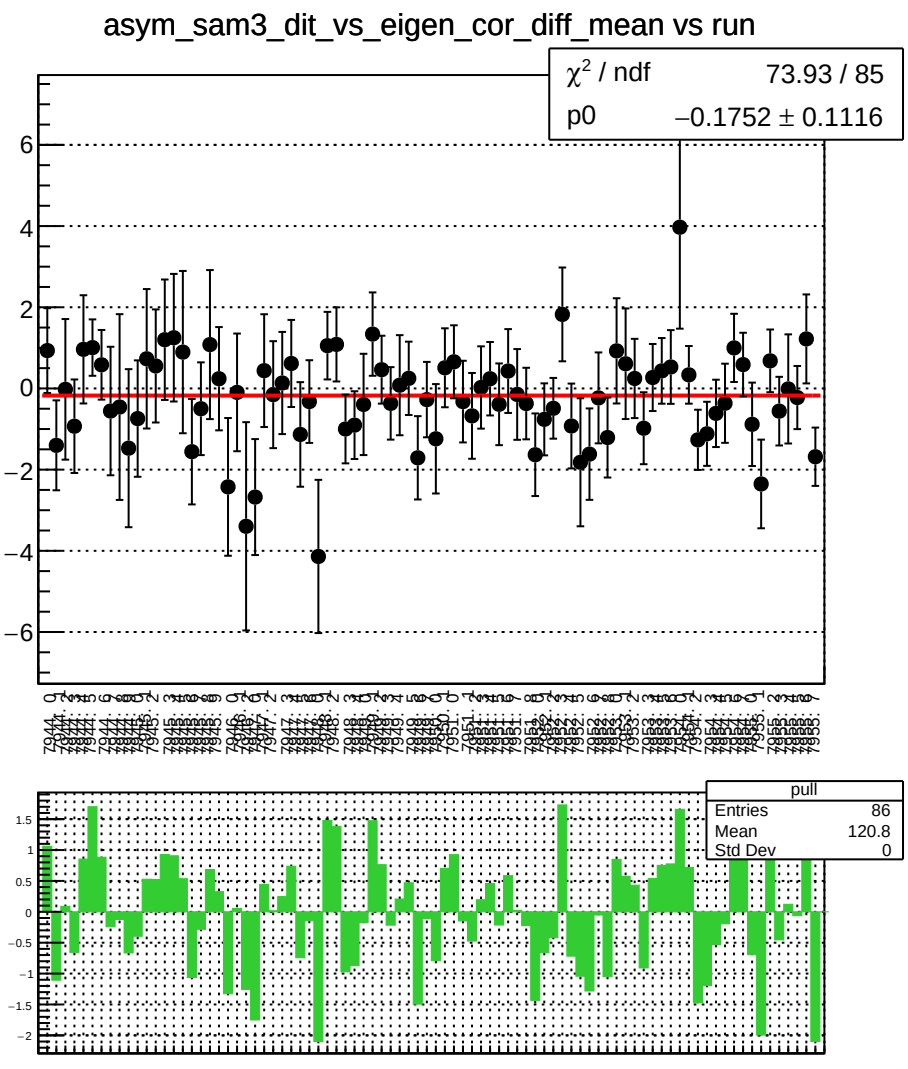

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 88.06 / 85
p0 −8.211e−13 ± 6.834e−13
pull
Entries 86
Mean 25.06
Std Dev 21.27
pull1D
Entries 86
Mean 0.1641
Std Dev 0.9985

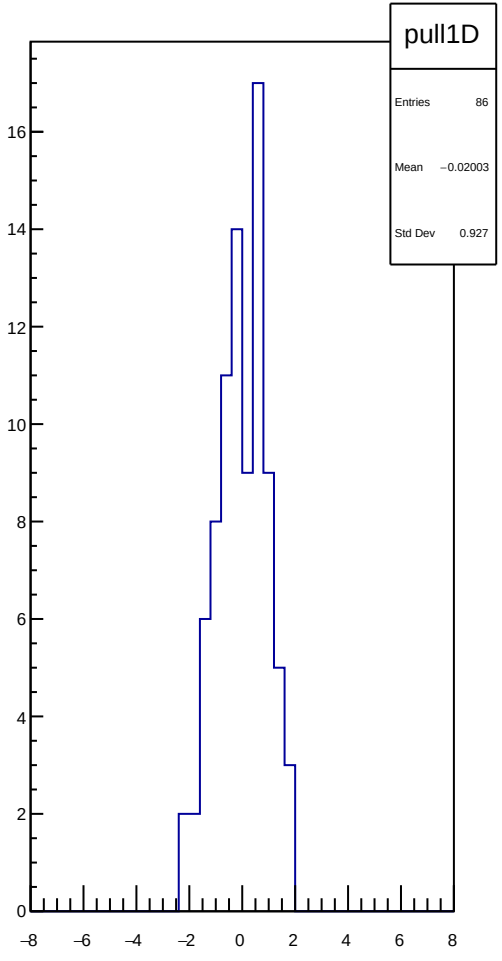

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 8.775e+05 / 85
p0 4.162e−10 ± 4.832e−13
0.5
0.4
0.3
0.2
0.1
0

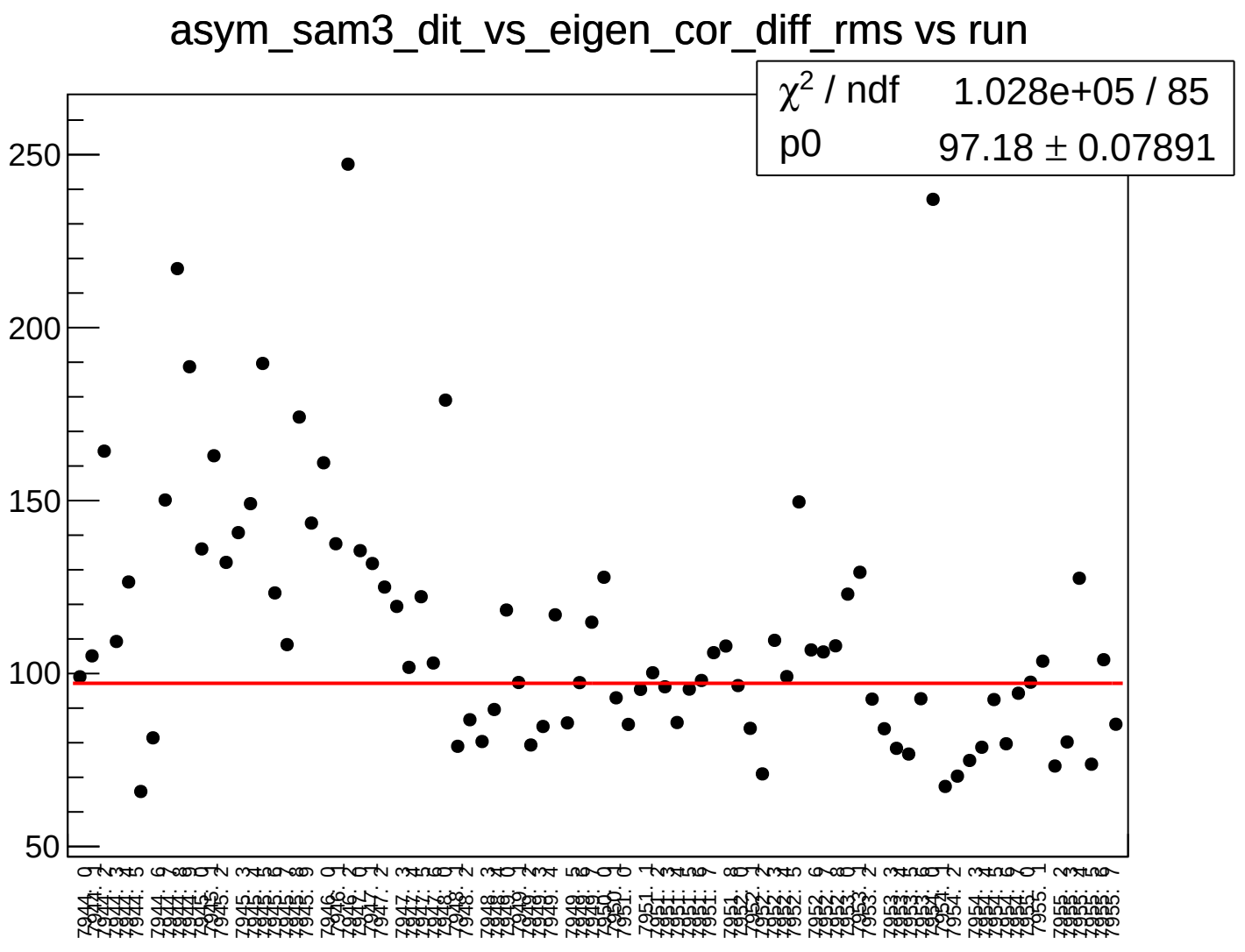

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 73.93 / 85
p0 −0.1752 ± 0.1116
pull
Entries 86
Mean 120.8
Std Dev 0

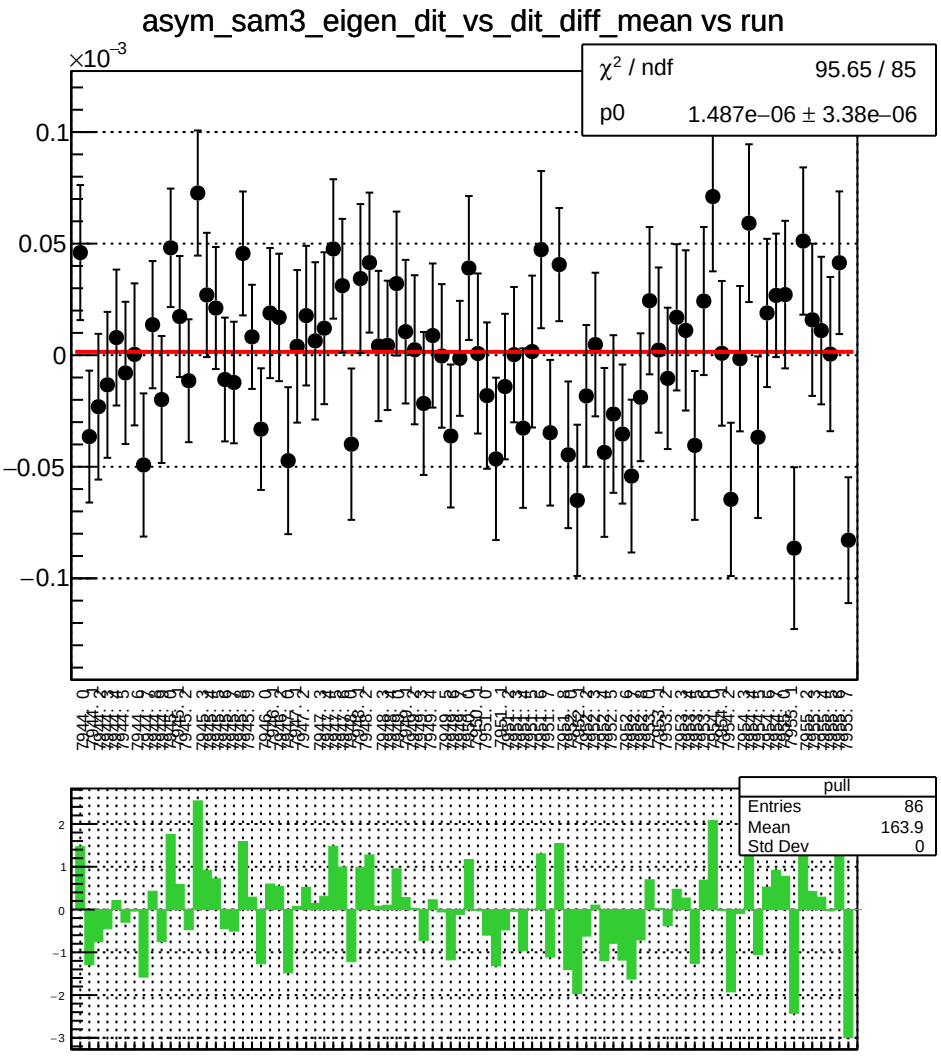

pull1D
Entries 86
Mean −0.02003
Std Dev 0.927

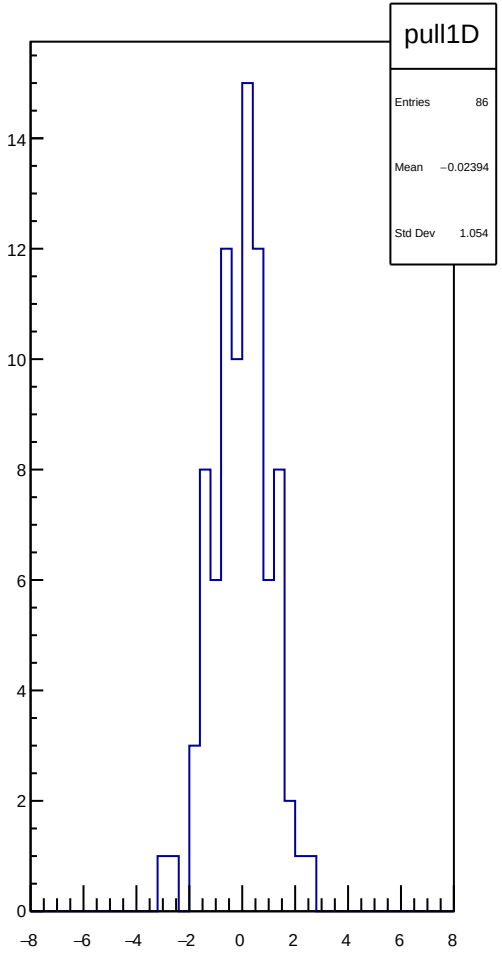

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 85
p0 97.18 ± 0.07891
250
200
150
100
50

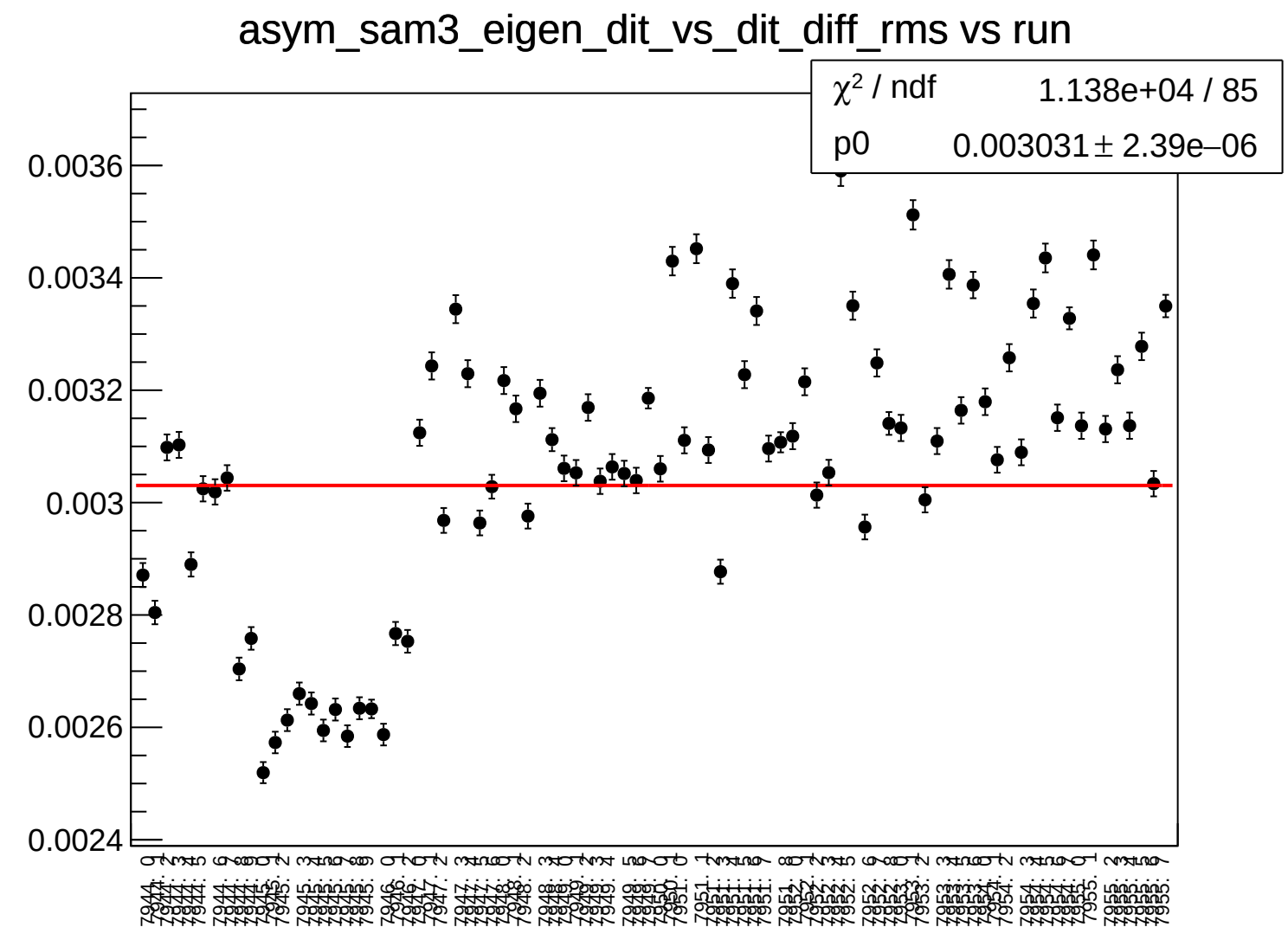

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.93 / 85
p0 −0.1752 ± 0.1116
pull
Entries 86
Mean 120.8
Std Dev 0

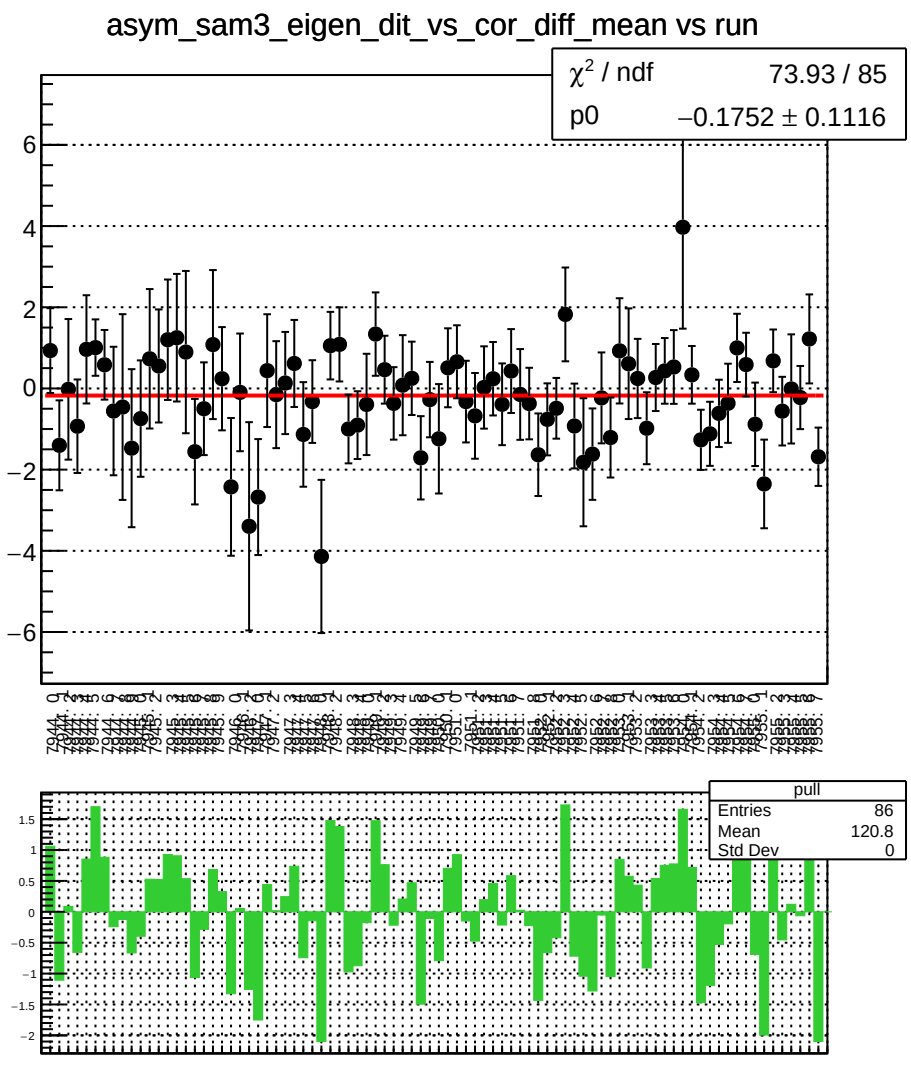

pull1D
Entries 86
Mean −0.02003
Std Dev 0.927

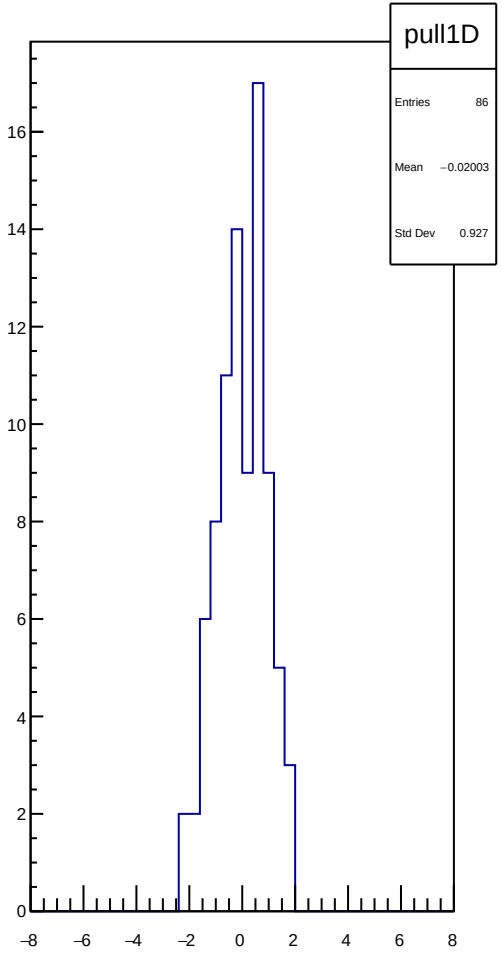

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.028e+05 / 85
p0 97.18 ± 0.07891
250
200
150
100
50

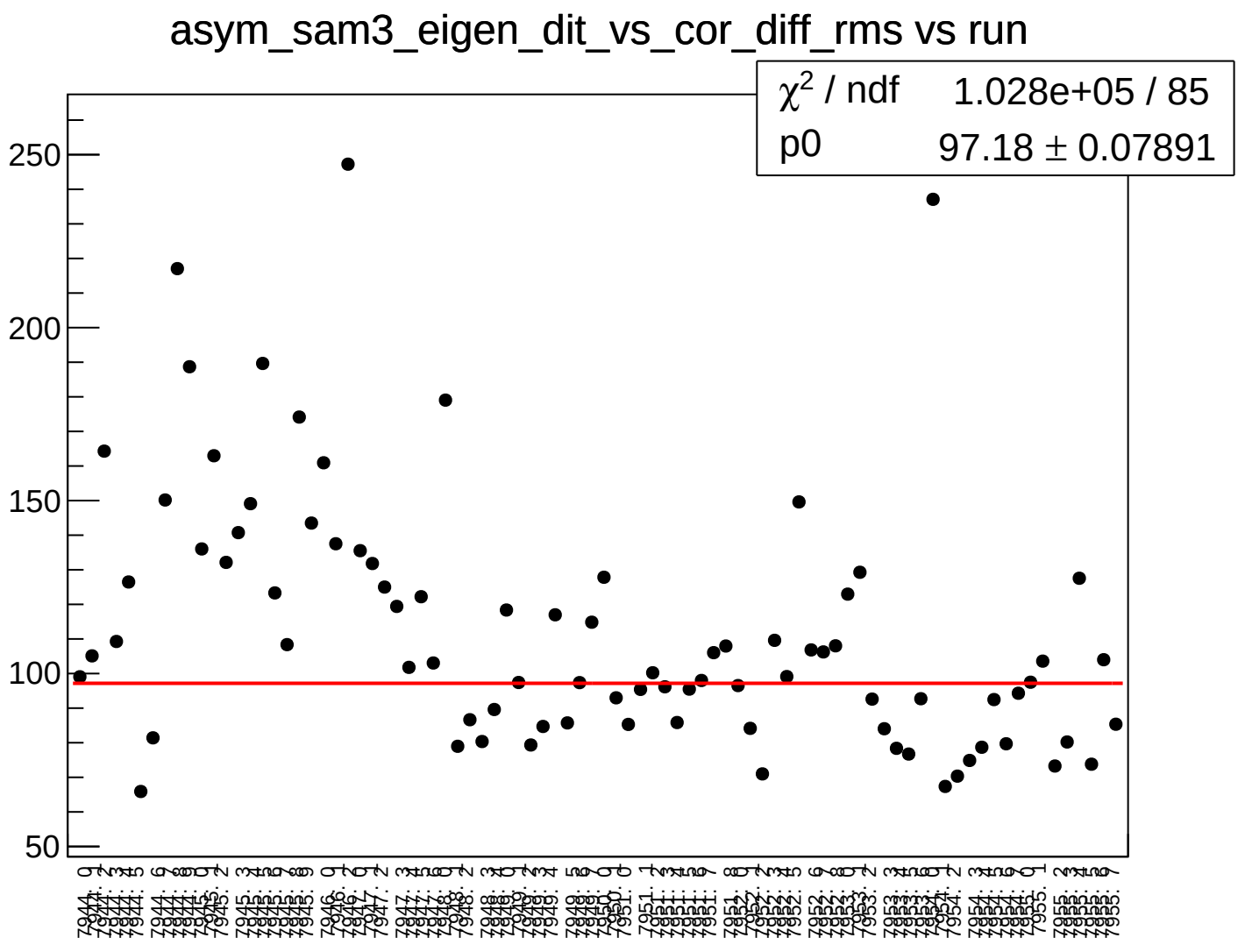

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.65 / 85
p0 1.487e−06 ± 3.38e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 163.9
Std Dev 0
2
1
0
−1
−2
−3

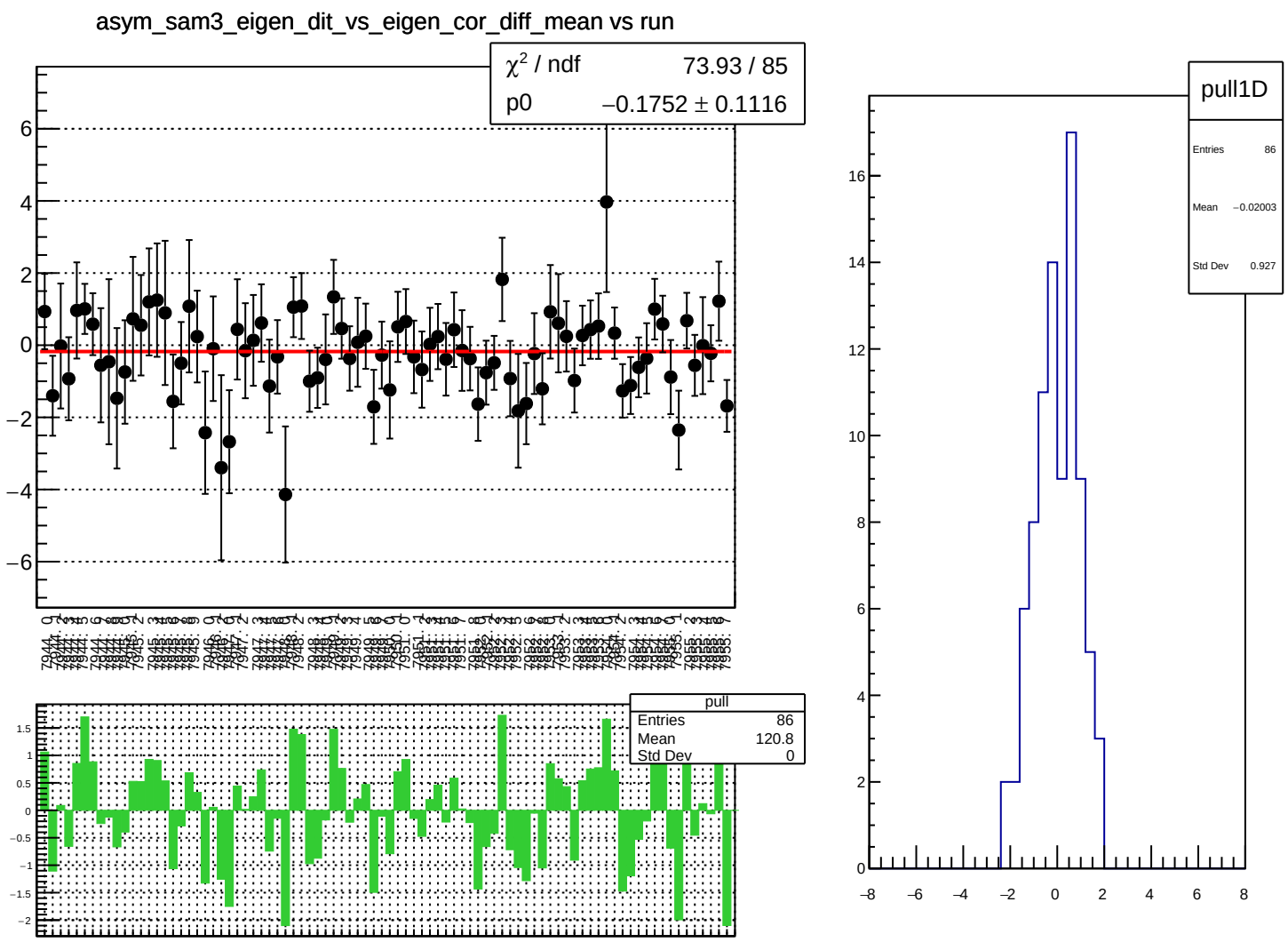

pull1D
Entries 86
Mean −0.02394
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

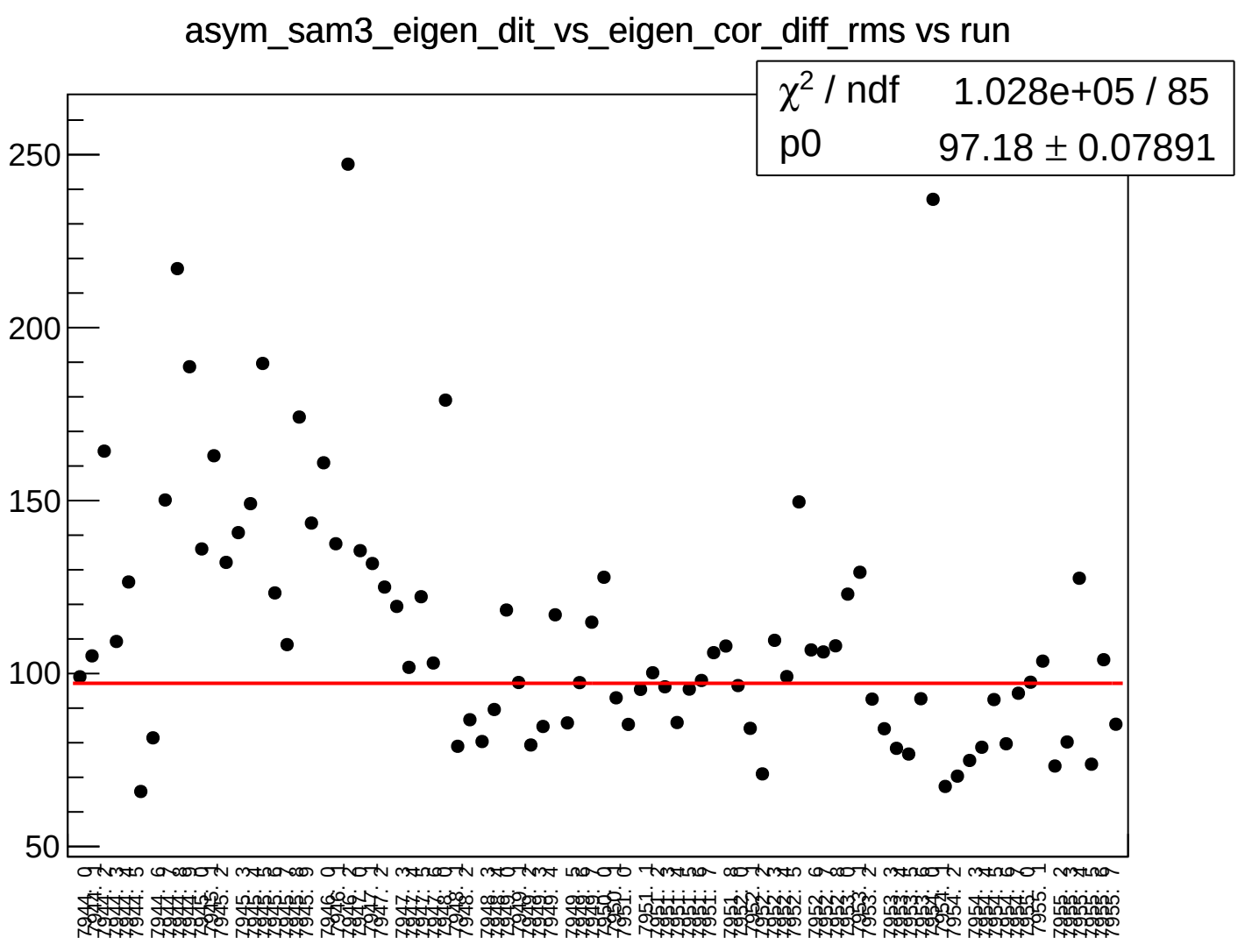

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.138e+04 / 85
p0 0.003031 ± 2.39e–06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

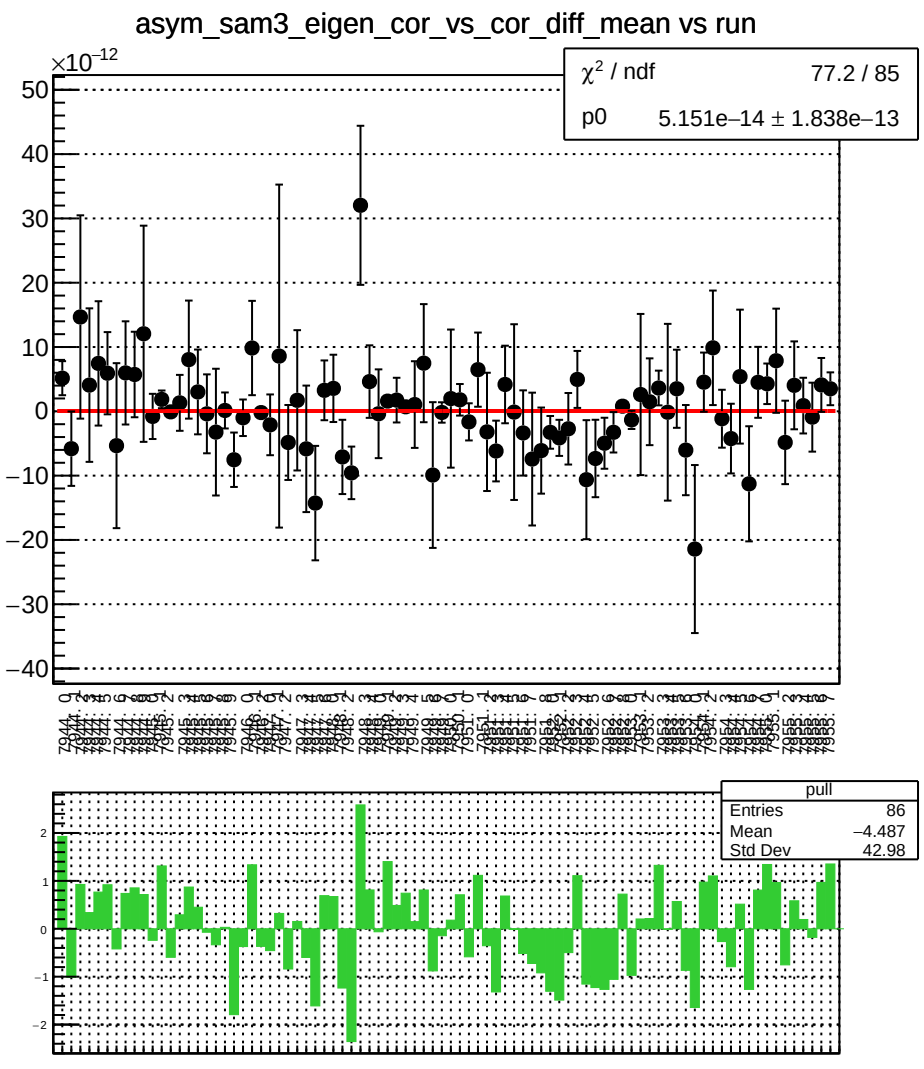

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.93 / 85
p0 −0.1752 ± 0.1116
pull
Entries 86
Mean 120.8
Std Dev 0

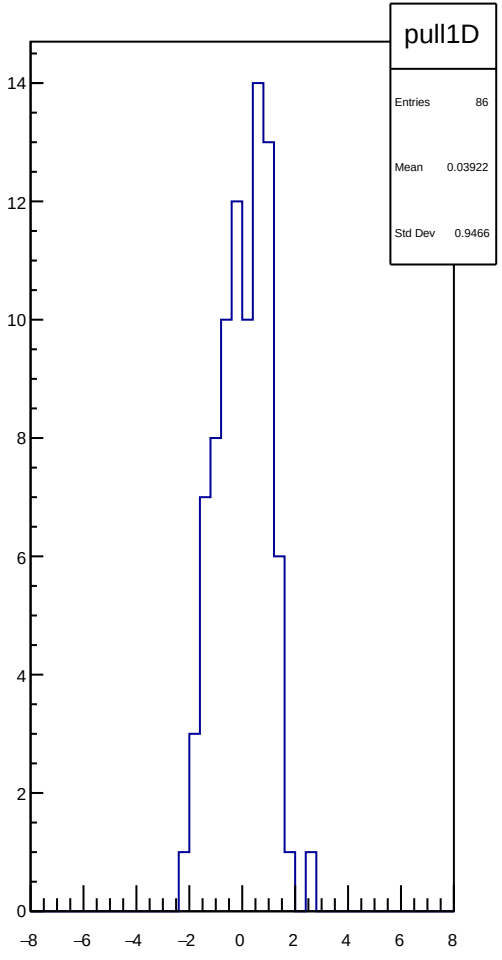

pull1D
Entries 86
Mean −0.02003
Std Dev 0.927

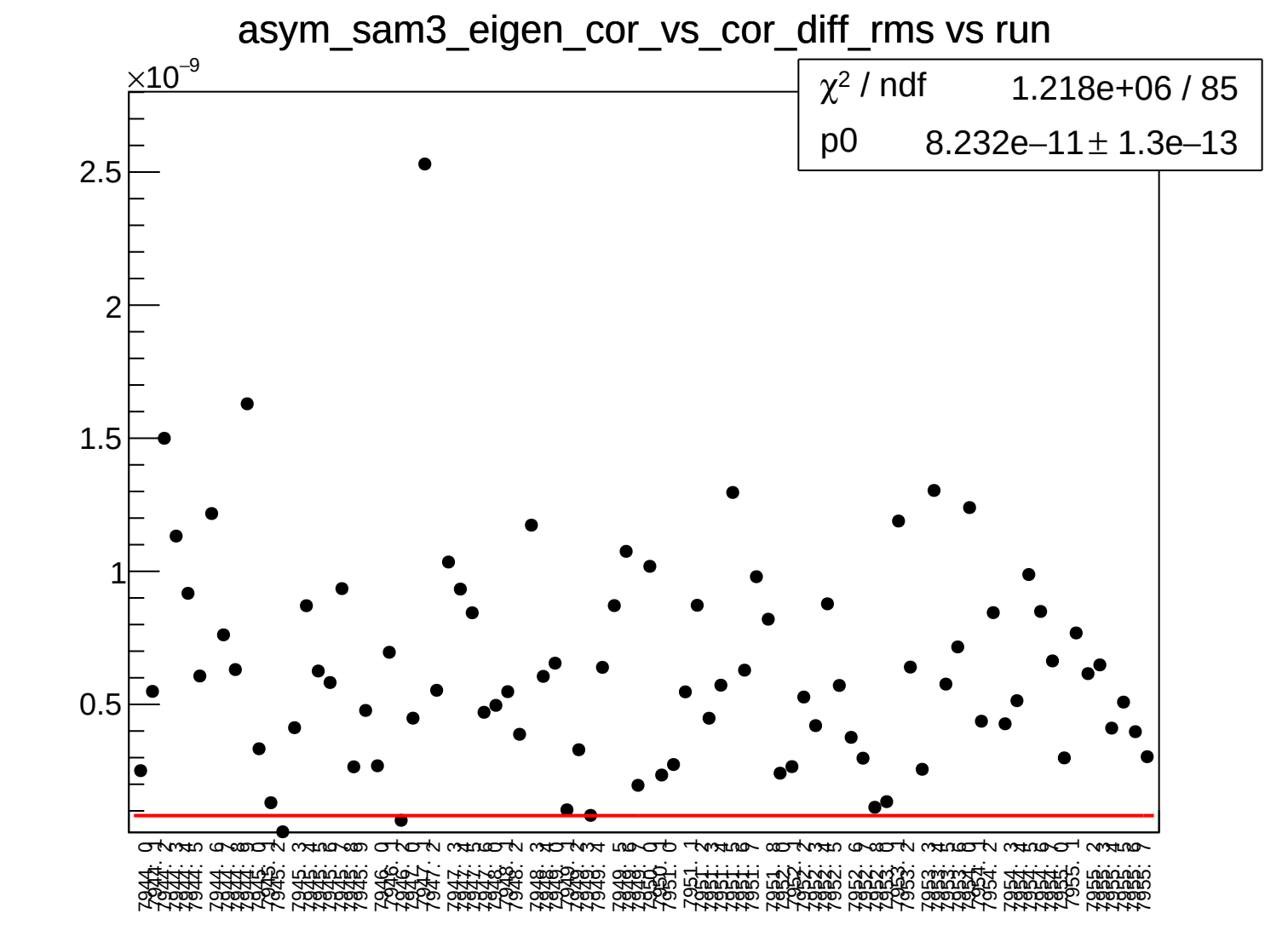

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 85
p0 97.18 ± 0.07891
250
200
150
100
50

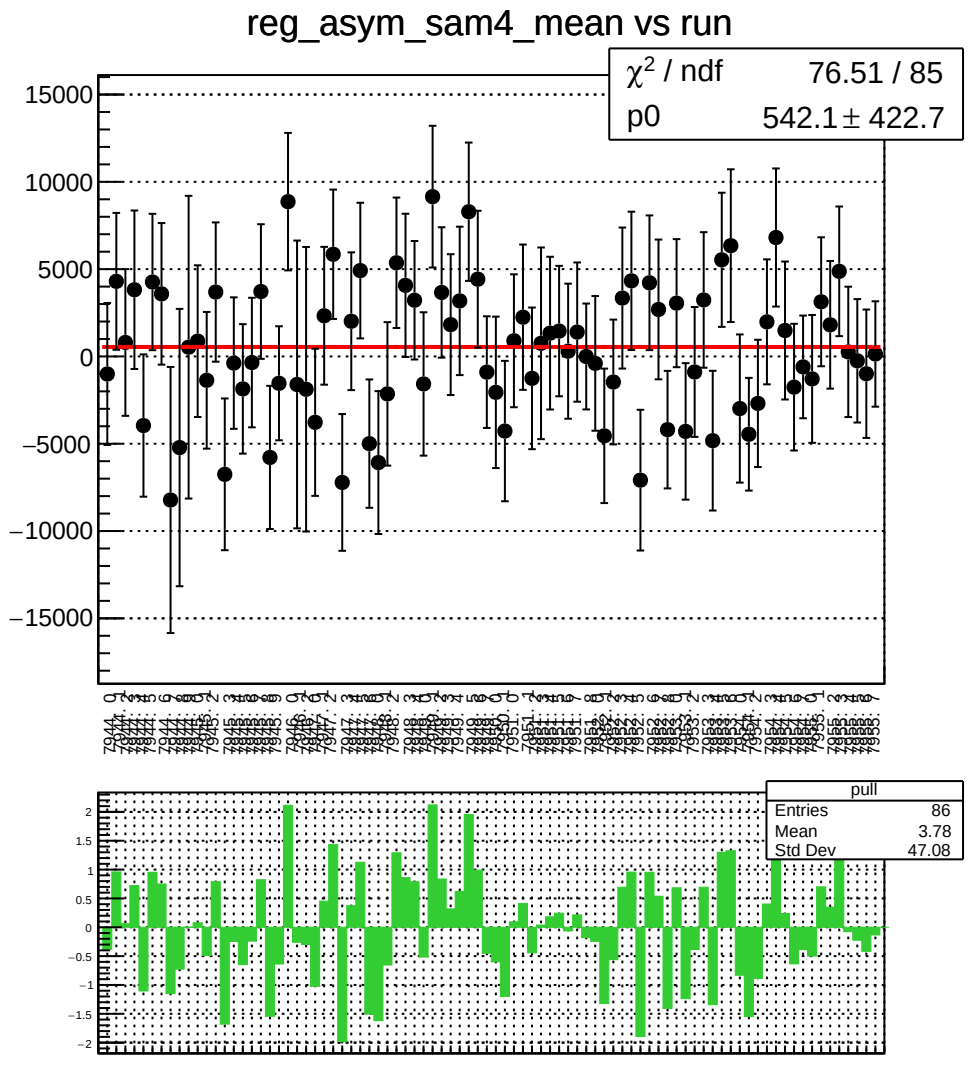

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.93 / 85
p0 −0.1752 ± 0.1116
pull
Entries 86
Mean 120.8
Std Dev 0
pull1D
Entries 86
Mean −0.02003
Std Dev 0.927

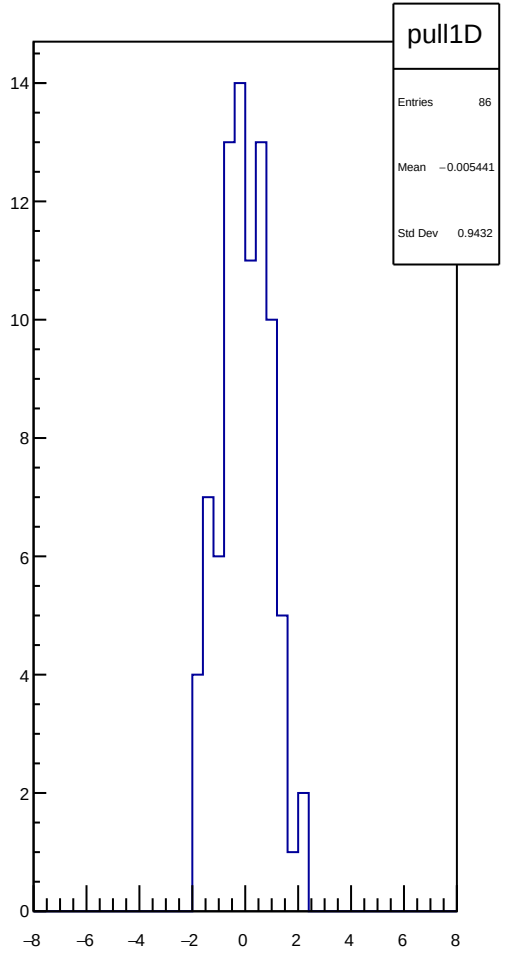

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 85
p0 97.18 ± 0.07891
250
200
150
100
50

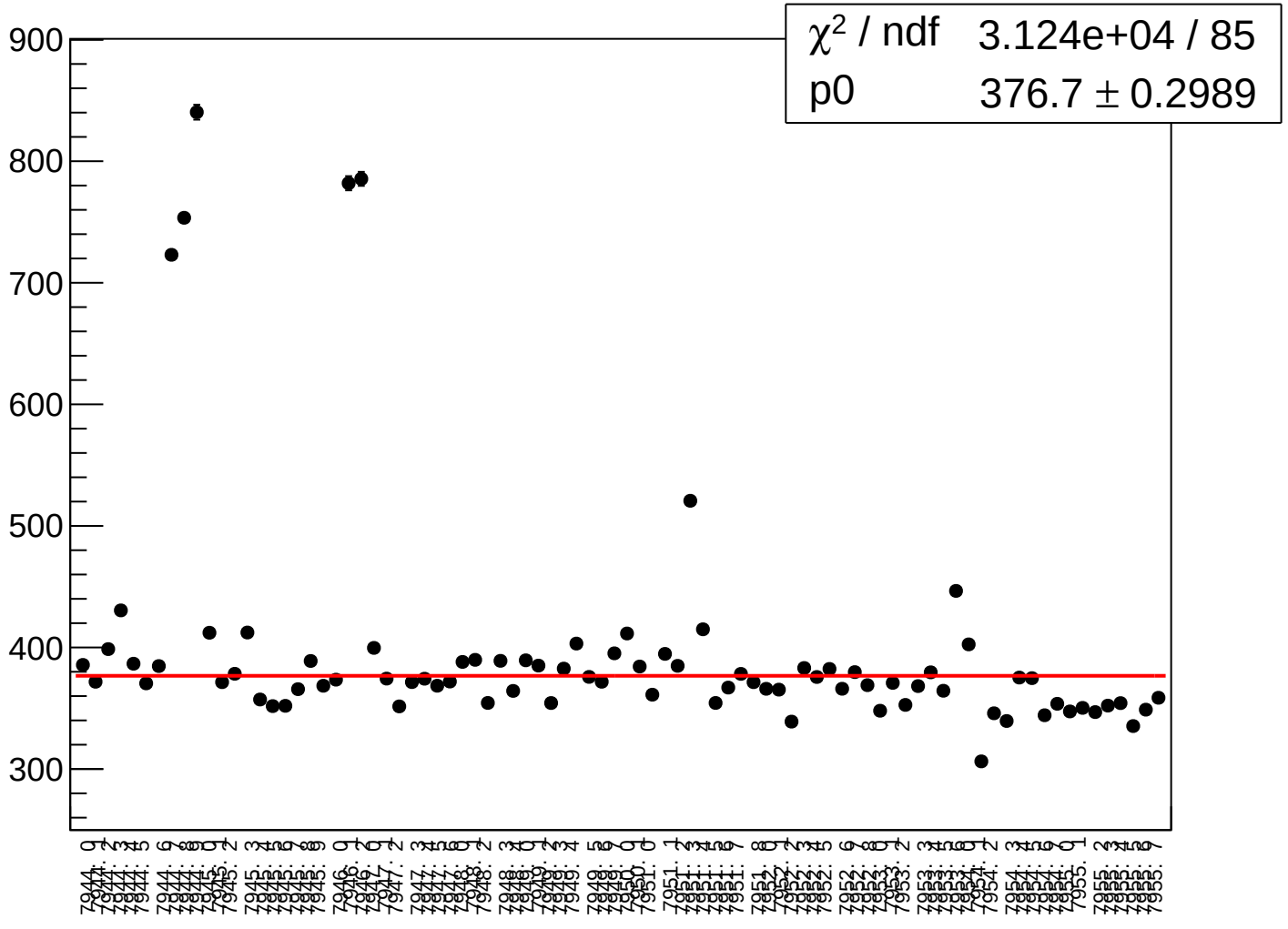

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.2 / 85
p0 5.151e−14 ± 1.838e−13
pull
Entries 86
Mean −4.487
Std Dev 42.98

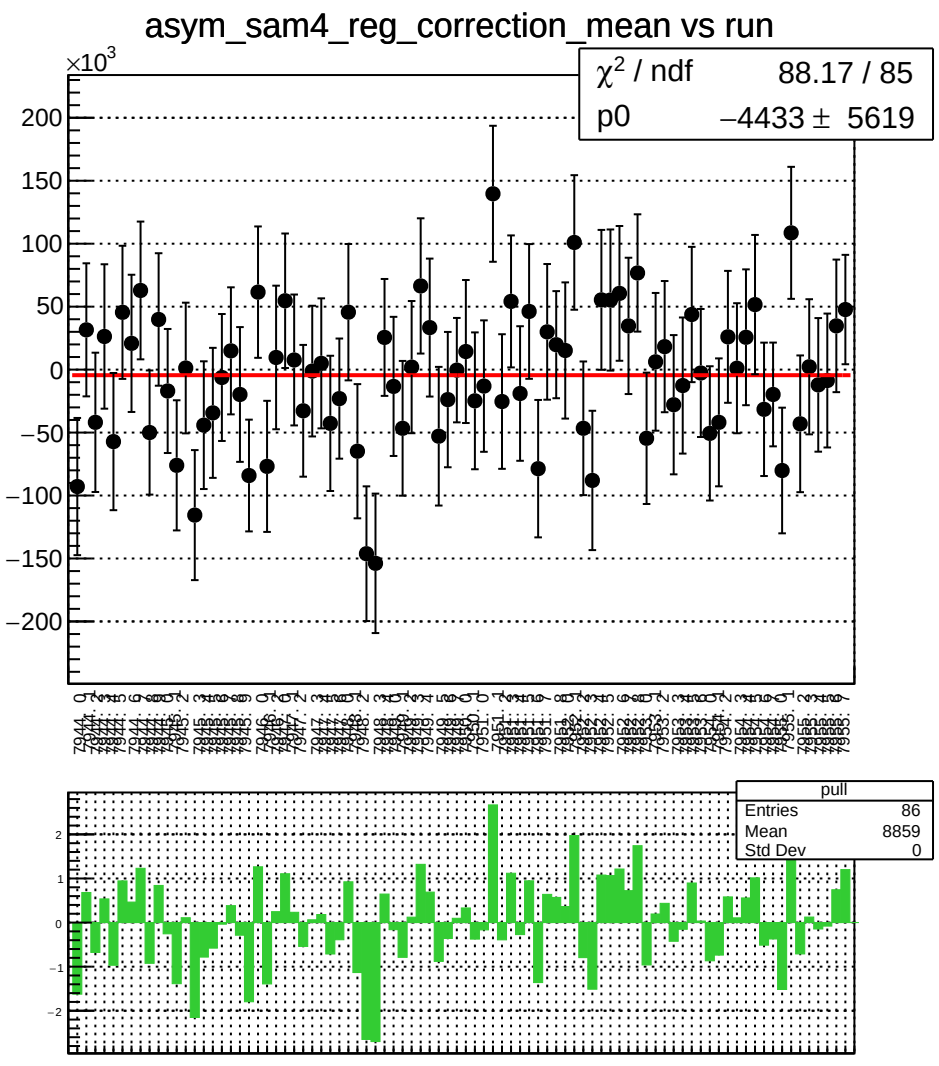

pull1D
Entries 86
Mean 0.03922
Std Dev 0.9466

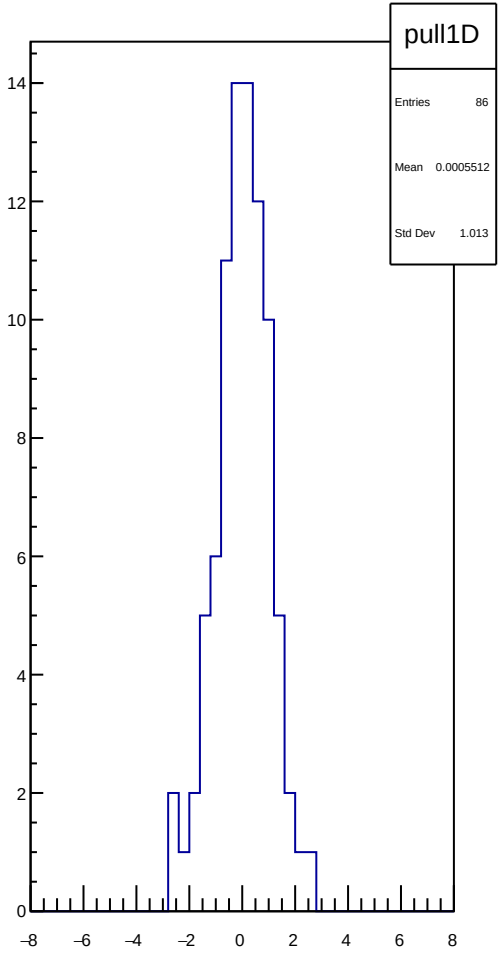

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.218e+06 / 85
p0 8.232e−11 ± 1.3e−13
2.5
2
1.5
1
0.5

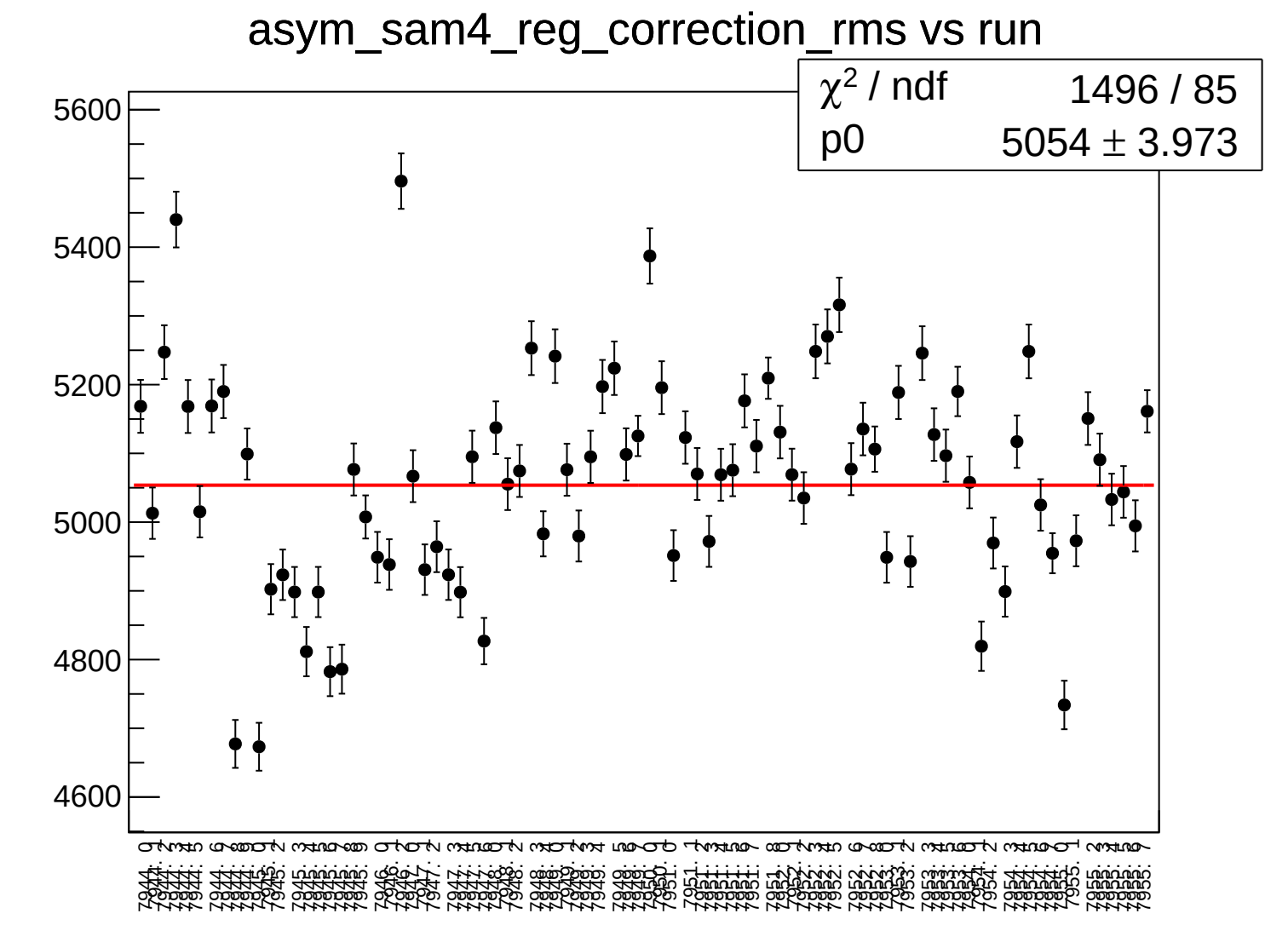

reg_asym_sam4_mean vs run
χ² / ndf 76.51 / 85
p0 542.1 ± 422.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 3.78
Std Dev 47.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

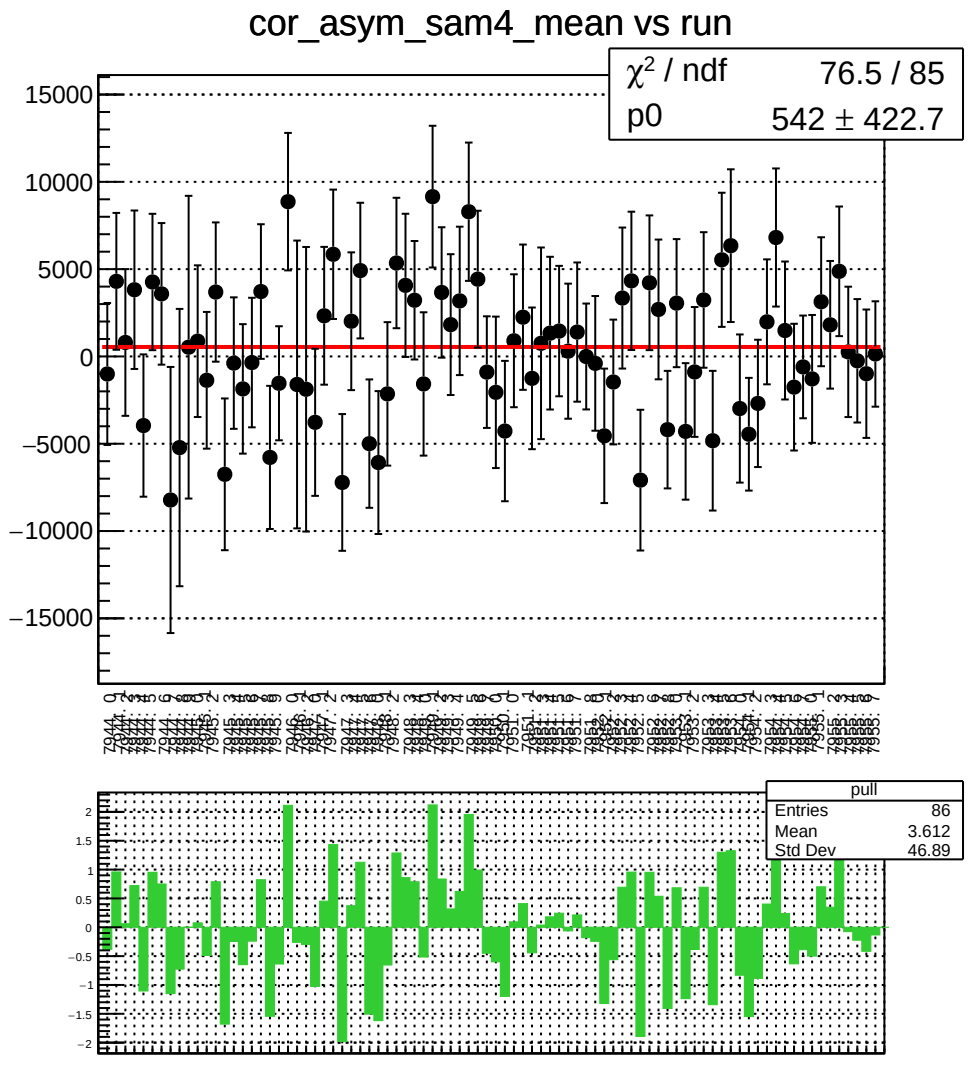

pull1D
Entries 86
Mean −0.005441
Std Dev 0.9432
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

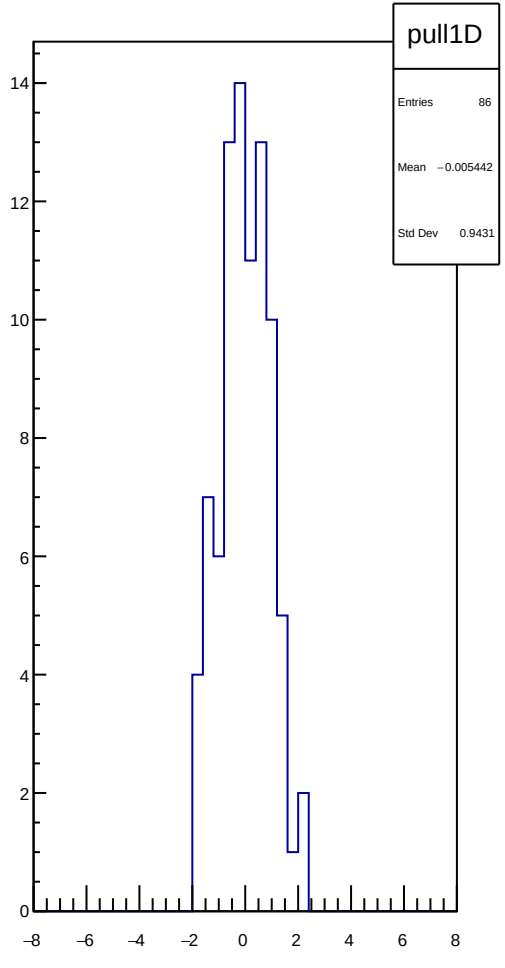

reg_asym_sam4_rms vs run
χ^2 / ndf 3.124e+04 / 85
p0 376.7 ± 0.2989
900
800
700
600
500
400
300

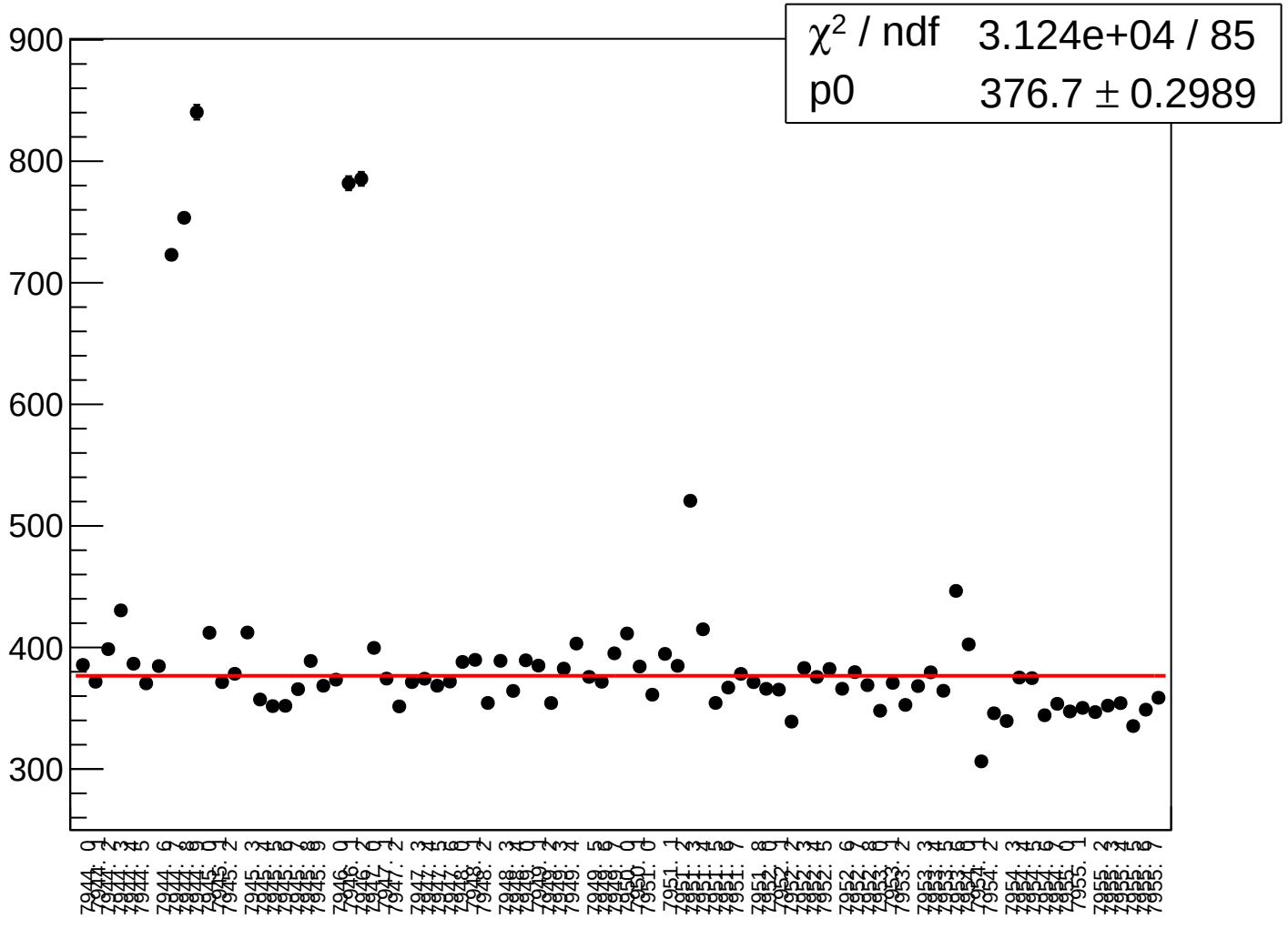

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 88.17 / 85
p0 −4433 ± 5619
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 8859
Std Dev 0
2
1
0
−1
−2

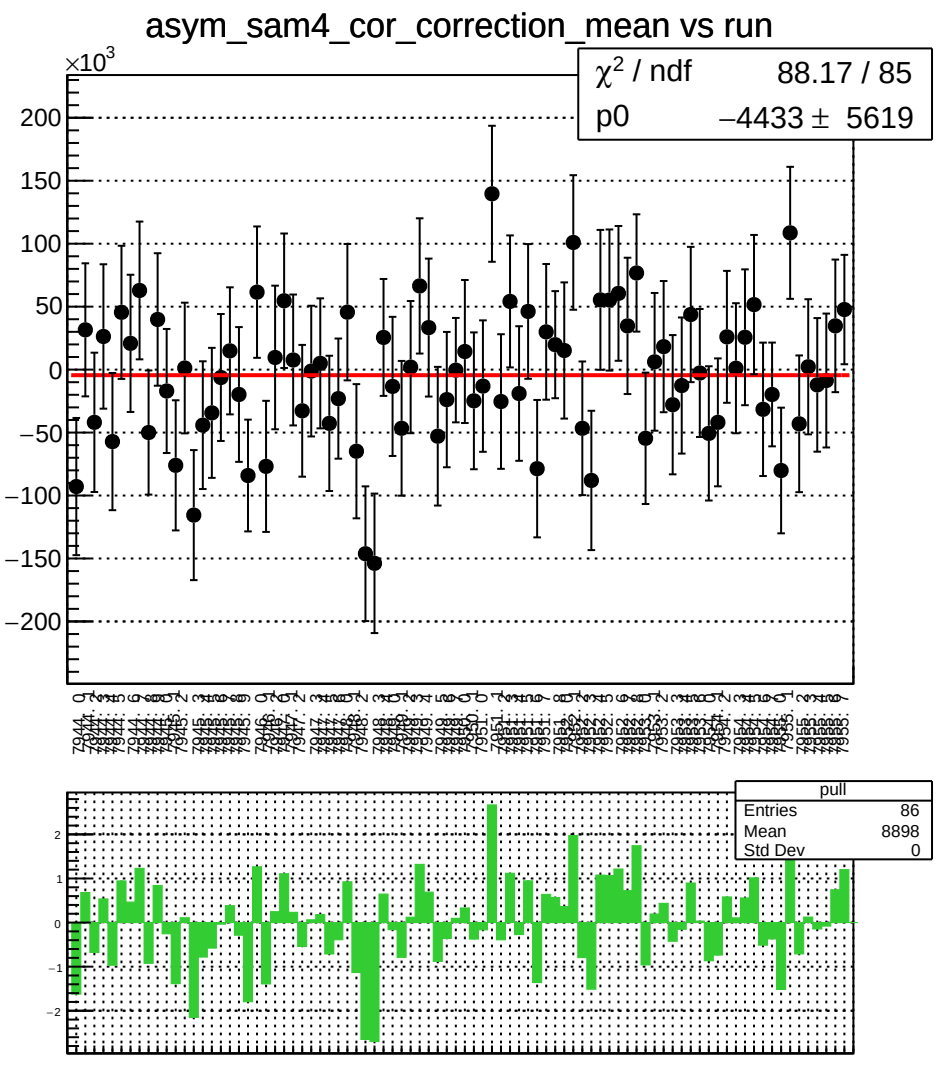

pull1D
Entries 86
Mean 0.0005512
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

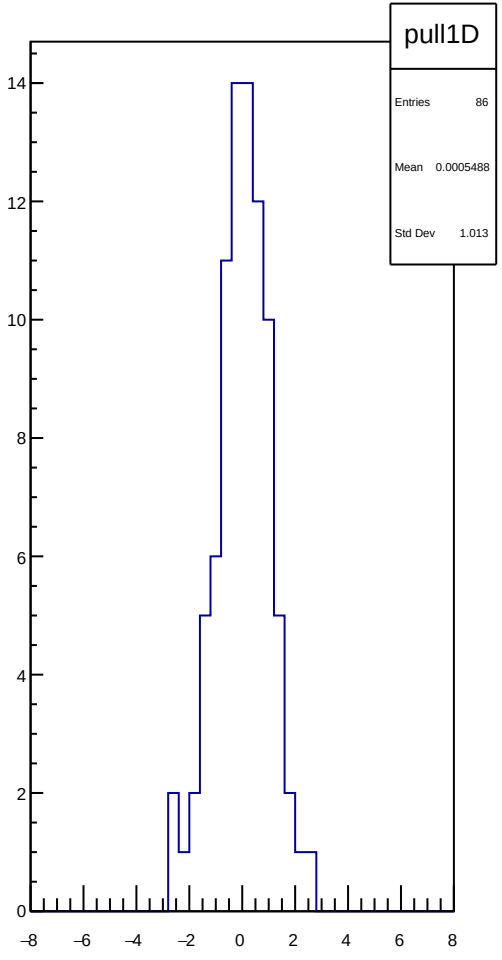

asym_sam4_reg_correction_rms vs run
χ² / ndf 1496 / 85
p0 5054 ± 3.973
5600
5400
5200
5000
4800
4600

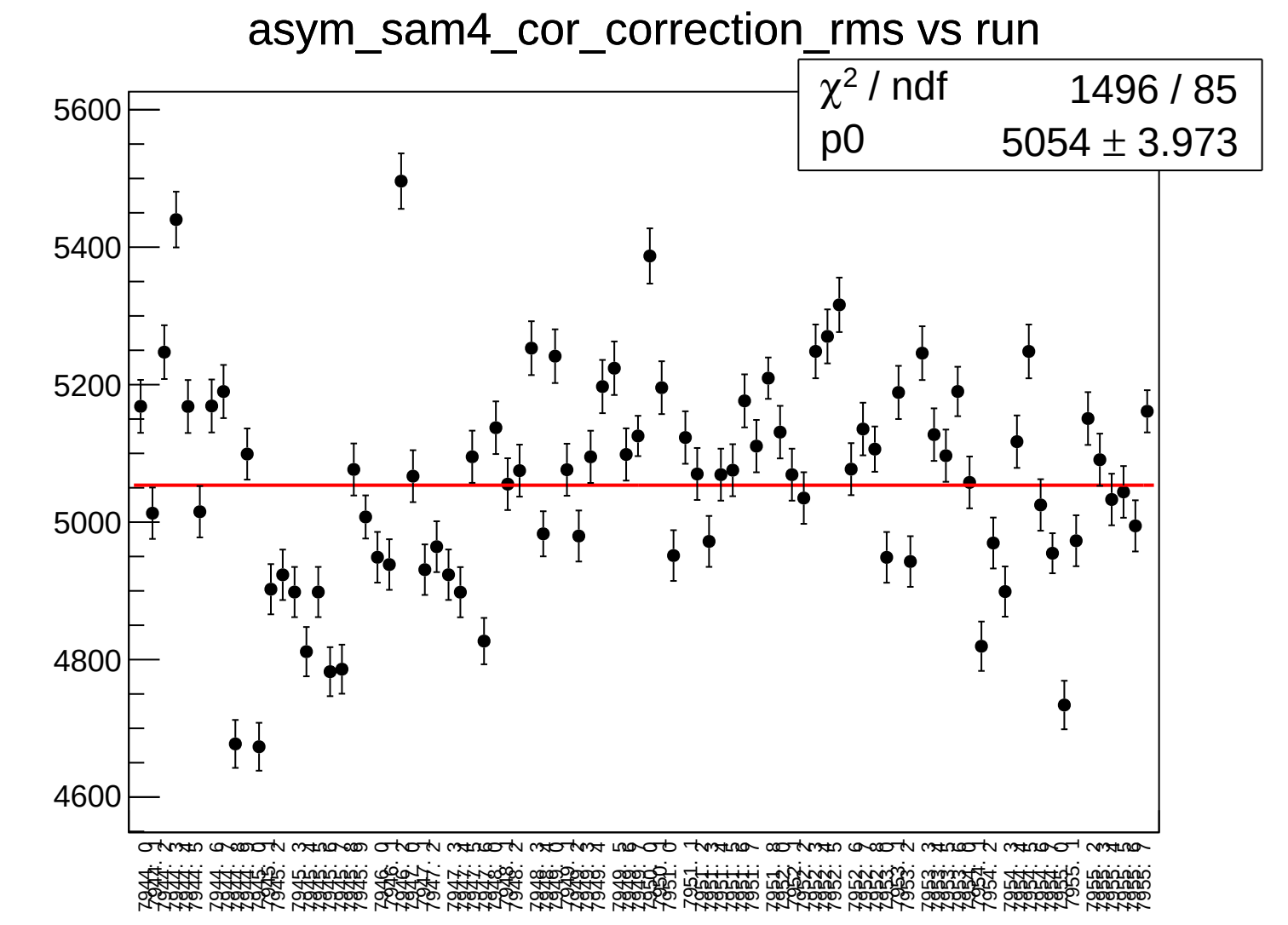

cor_asym_sam4_mean vs run
χ² / ndf 76.5 / 85
p0 542 ± 422.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 3.612
Std Dev 46.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

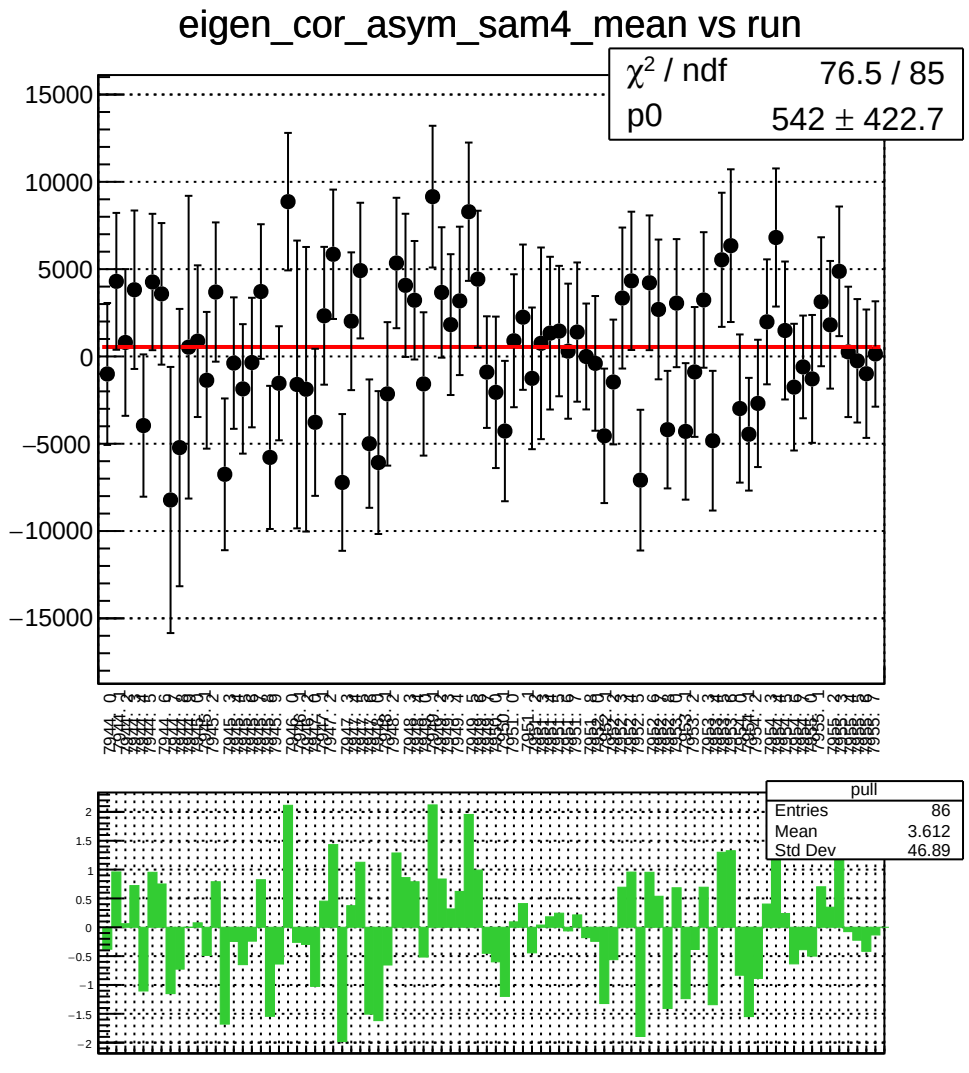

pull1D
Entries 86
Mean −0.005442
Std Dev 0.9431
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

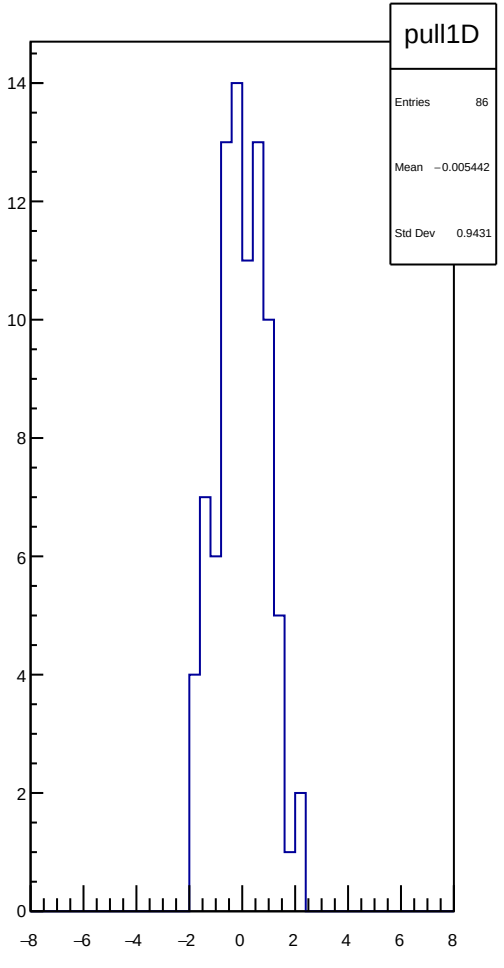

cor_asym_sam4_rms vs run
χ² / ndf 3.124e+04 / 85
p0 376.7 ± 0.2989
900
800
700
600
500
400
300

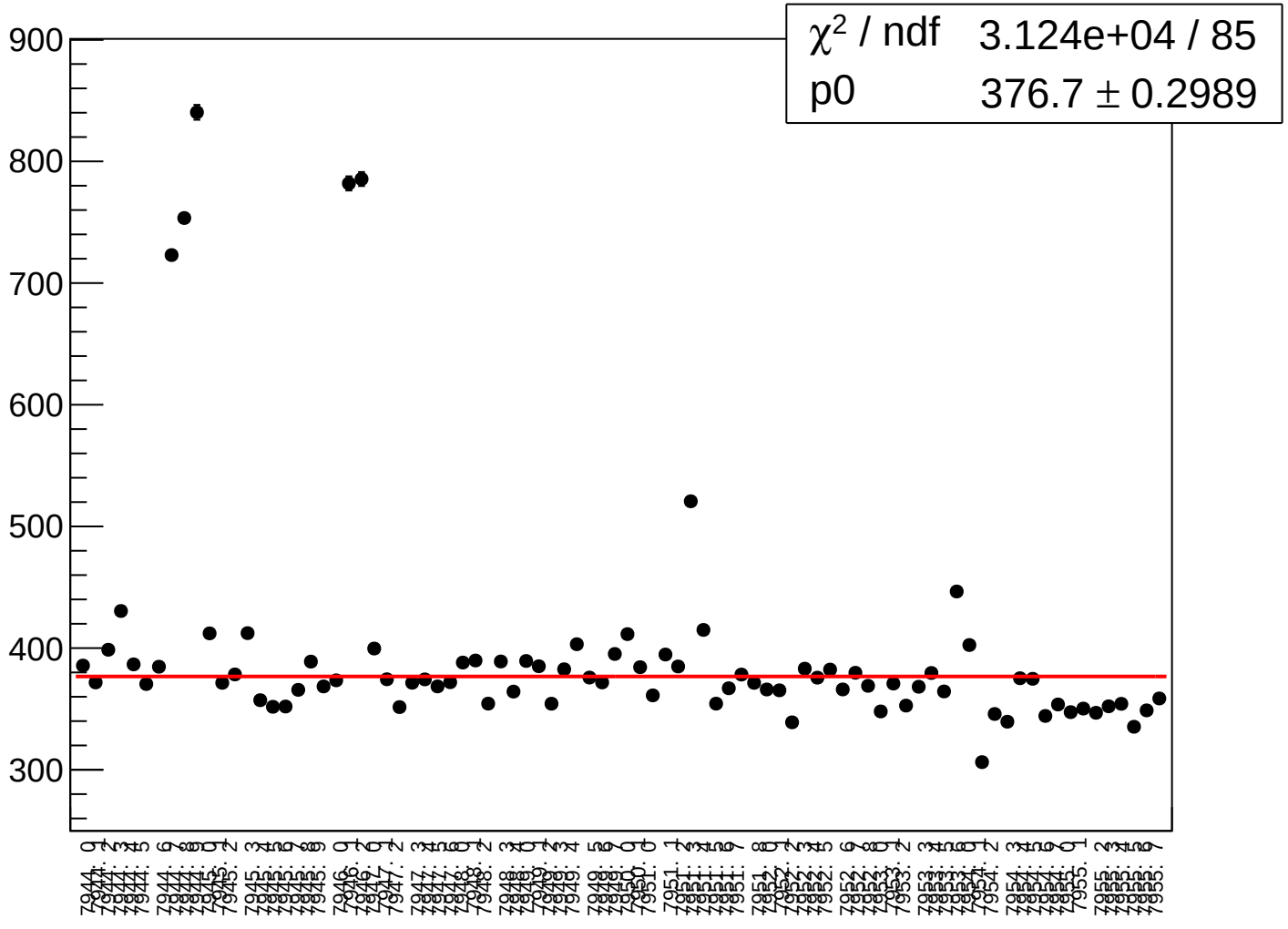

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 88.17 / 85
p0 −4433 ± 5619
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 8898
Std Dev 0
2
1
0
−1
−2

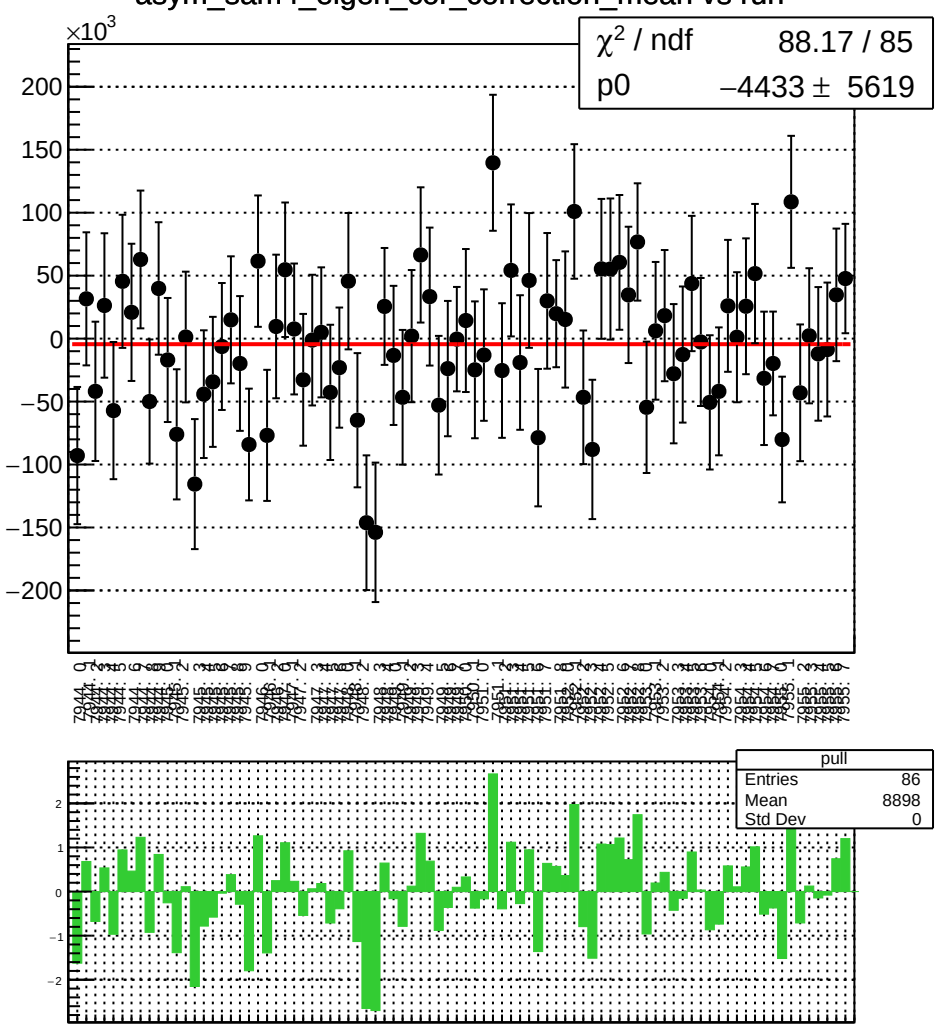

pull1D
Entries 86
Mean 0.0005488
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

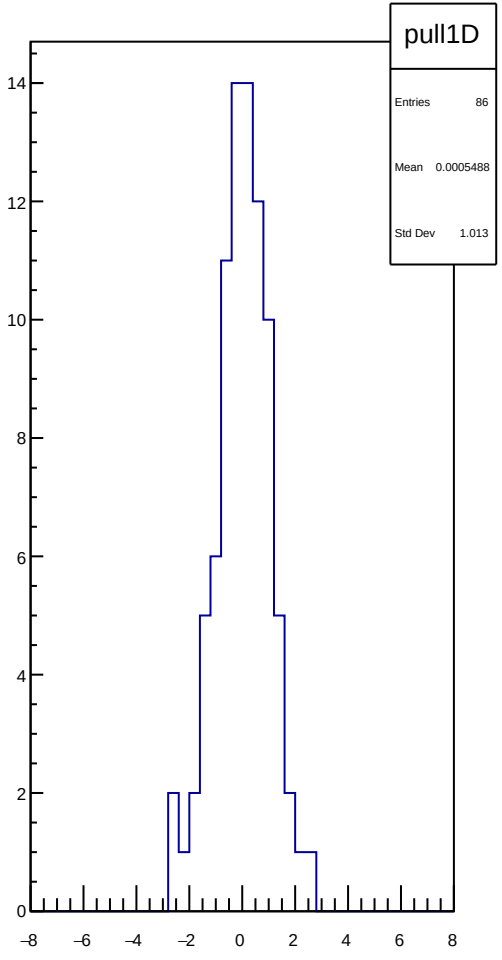

asym_sam4_cor_correction_rms vs run
χ² / ndf 1496 / 85
p0 5054 ± 3.973
5600
5400
5200
5000
4800
4600

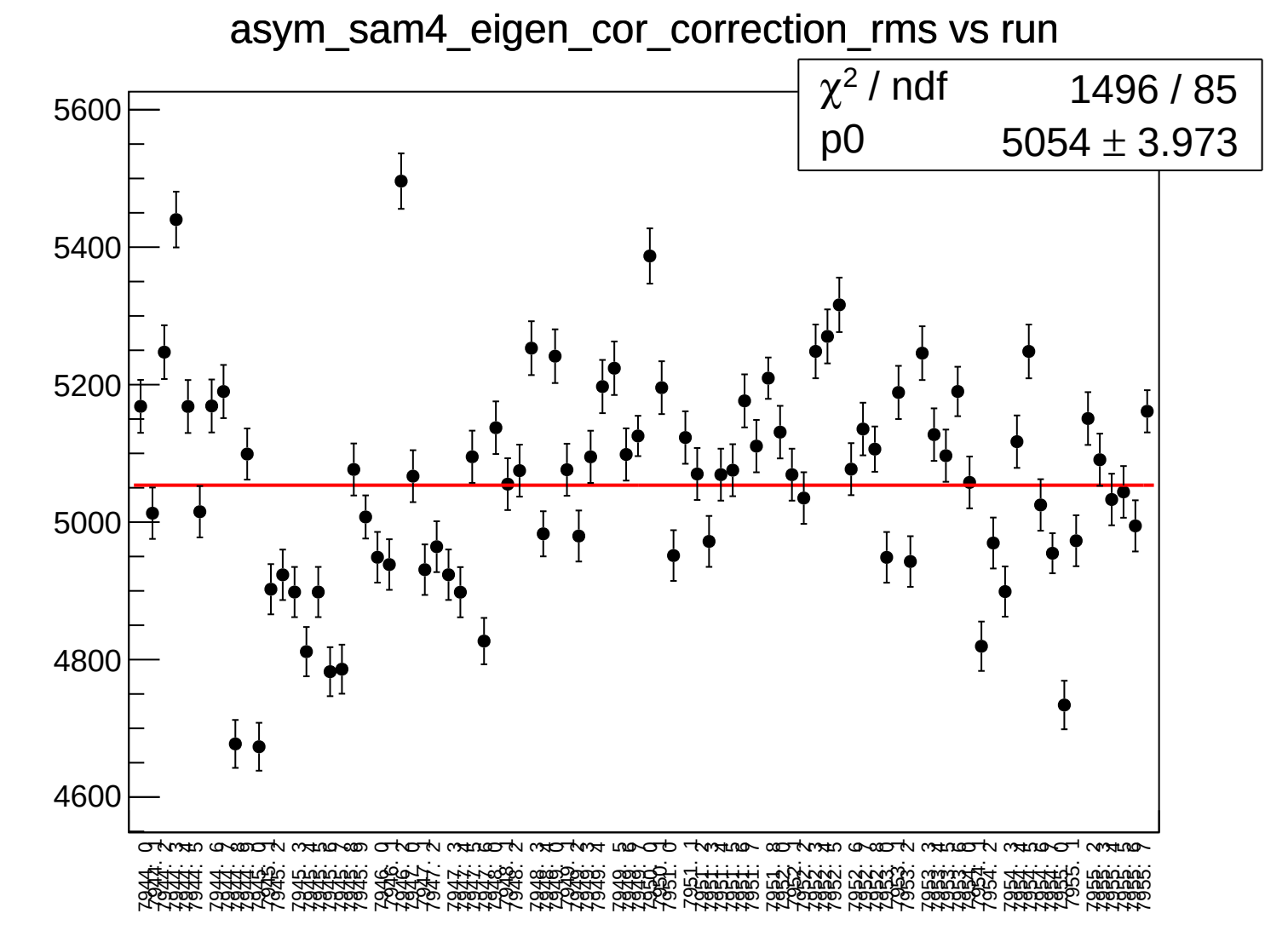

eigen_cor_asym_sam4_mean vs run
χ² / ndf 76.5 / 85
p0 542 ± 422.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 3.612
Std Dev 46.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

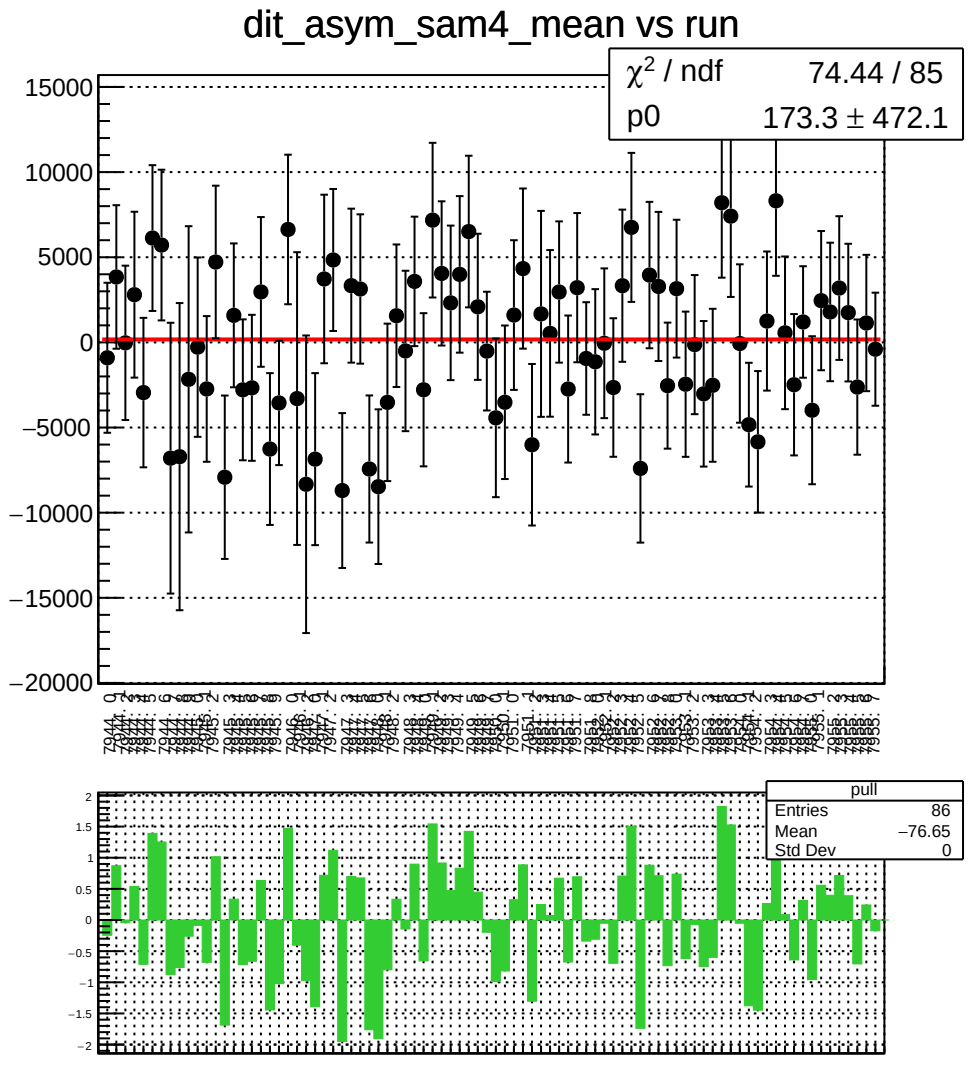

pull1D
Entries 86
Mean −0.005442
Std Dev 0.9431
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

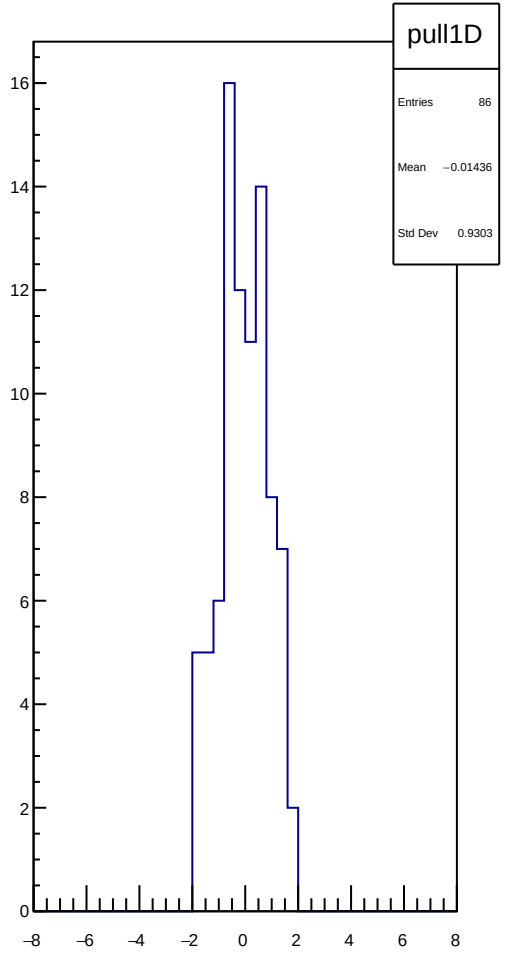

eigen_cor_asym_sam4_rms vs run
χ² / ndf 3.124e+04 / 85
p0 376.7 ± 0.2989
900
800
700
600
500
400
300

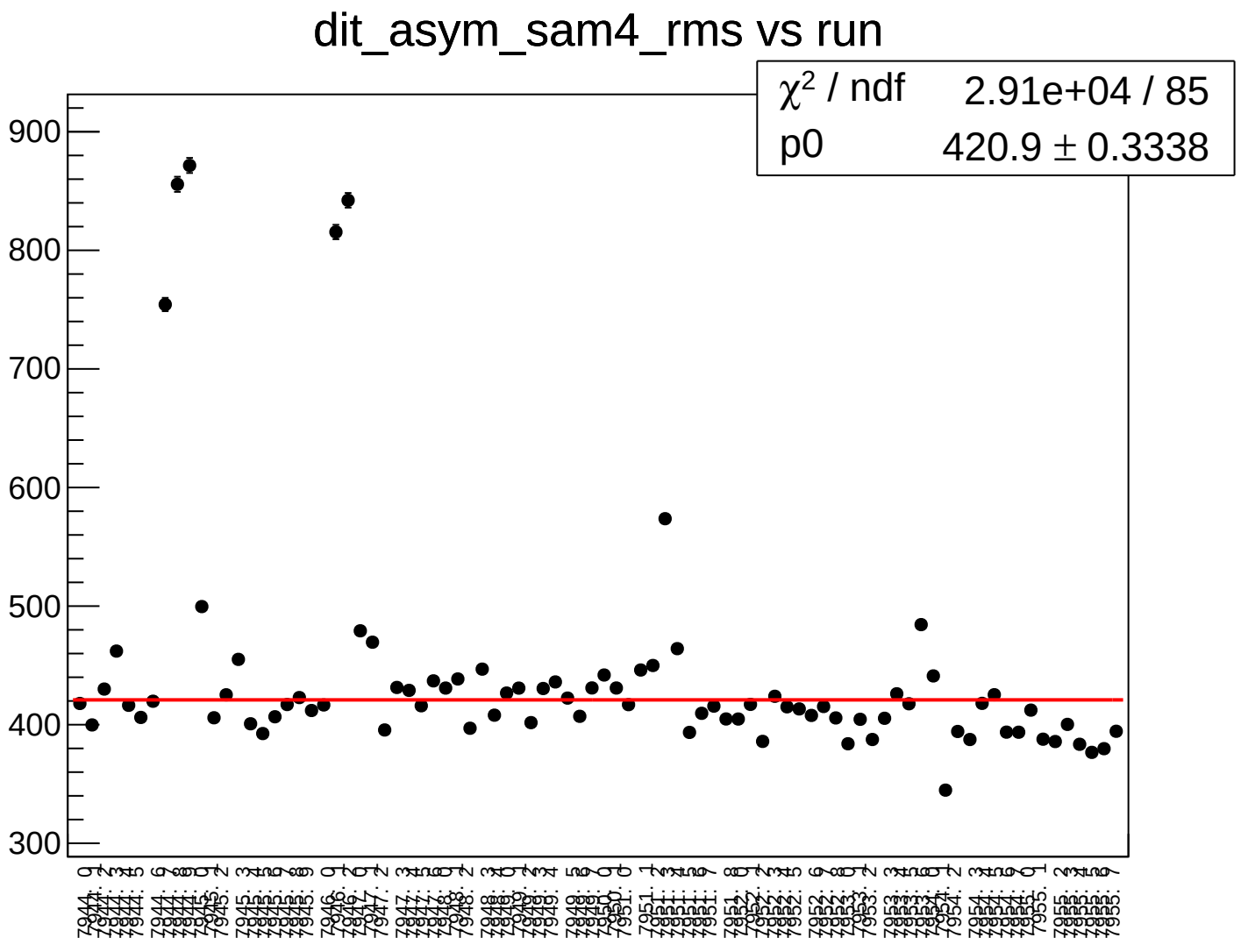

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.17 / 85
p0 −4433 ± 5619
pull
Entries 86
Mean 8898
Std Dev 0

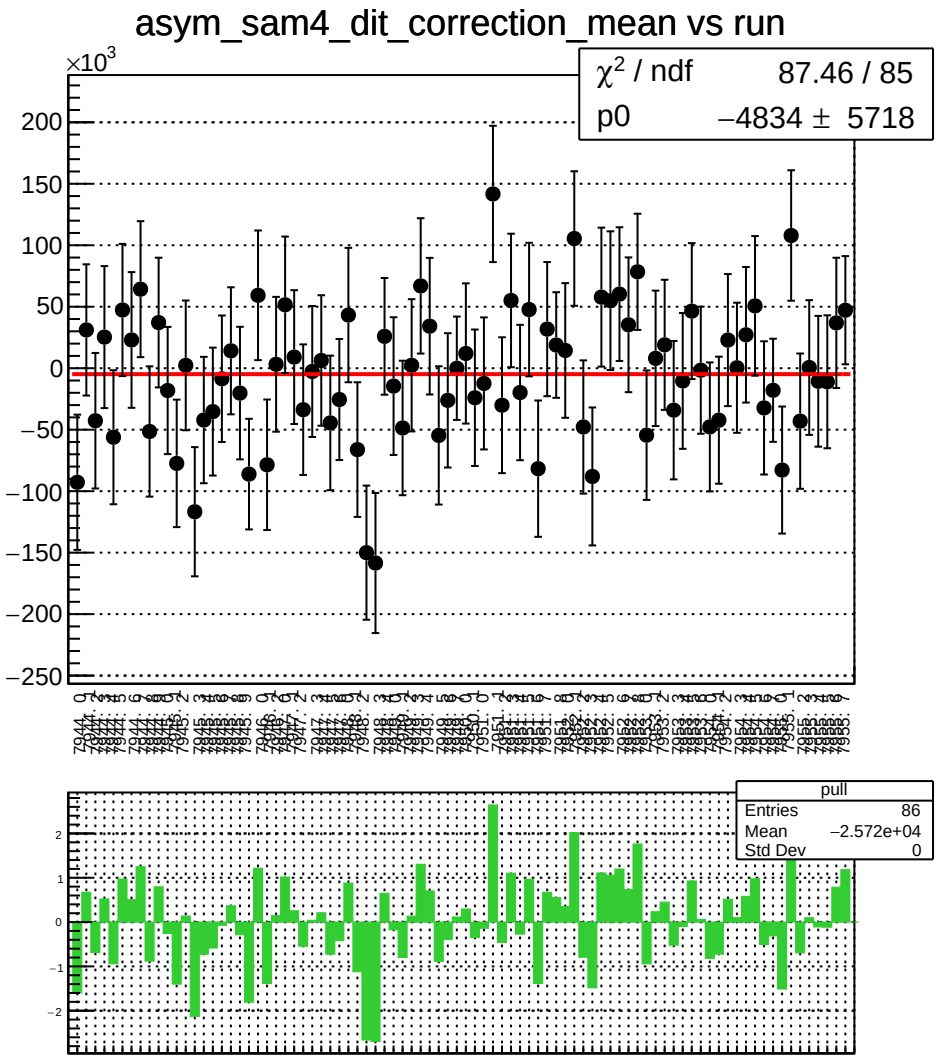

pull1D
Entries 86
Mean 0.0005488
Std Dev 1.013

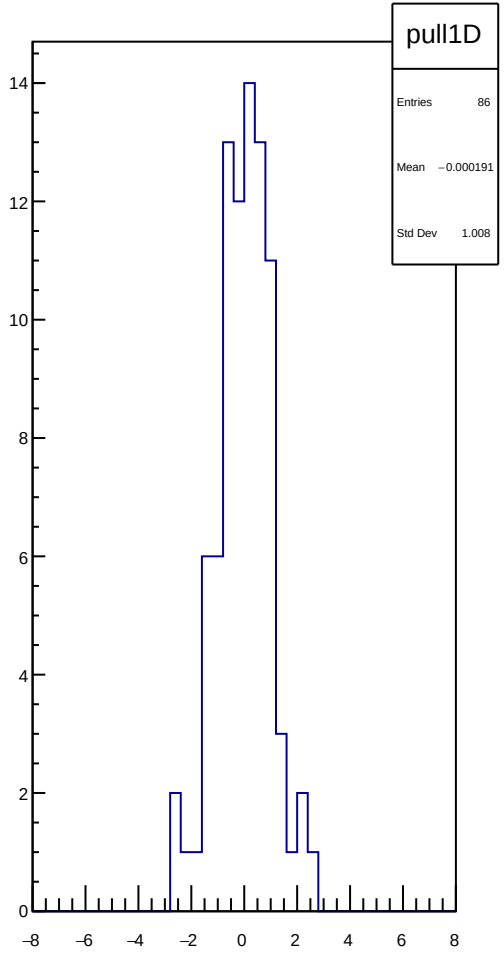

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 1496 / 85
p0 5054 ± 3.973
5600
5400
5200
5000
4800
4600

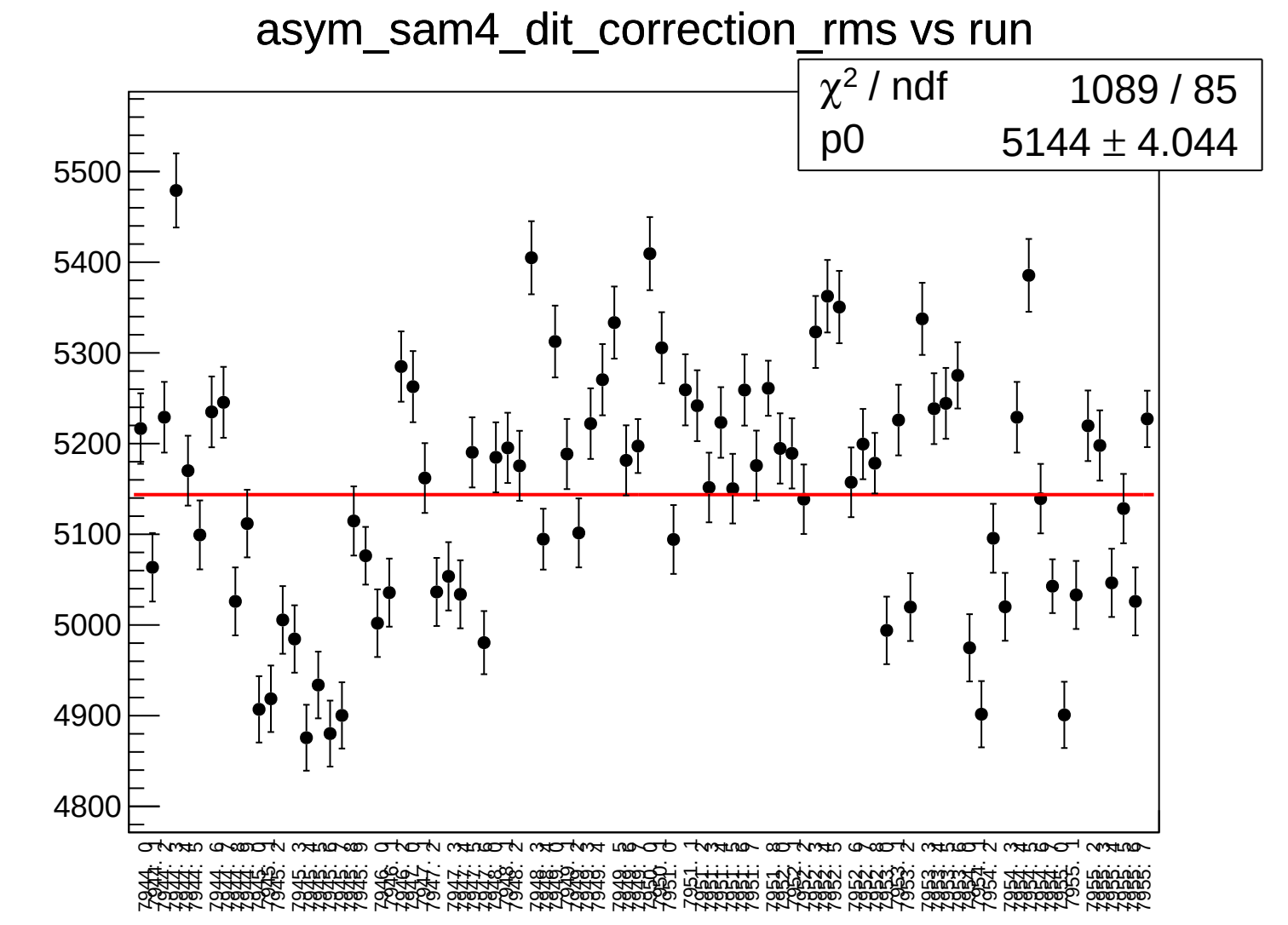

dit_asym_sam4_mean vs run
χ² / ndf 74.44 / 85
p0 173.3 ± 472.1
pull
Entries 86
Mean −76.65
Std Dev 0

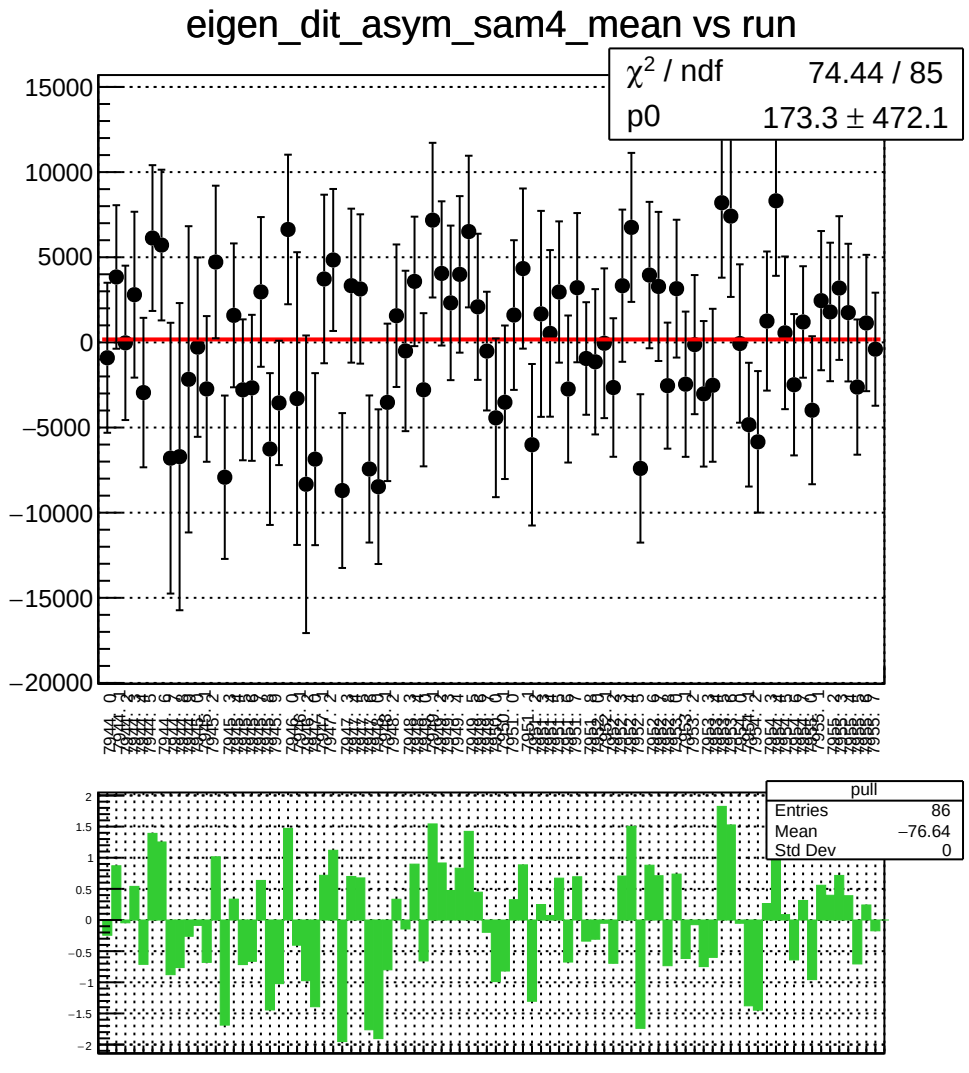

pull1D
Entries 86
Mean −0.01436
Std Dev 0.9303

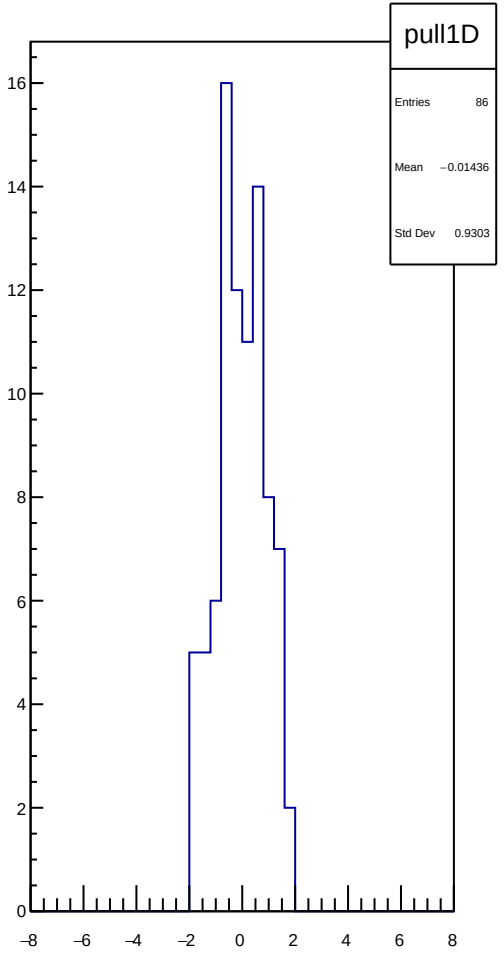

dit_asym_sam4_rms vs run
χ^2 / ndf 2.91e+04 / 85
p0 420.9 ± 0.3338
900
800
700
600
500
400
300

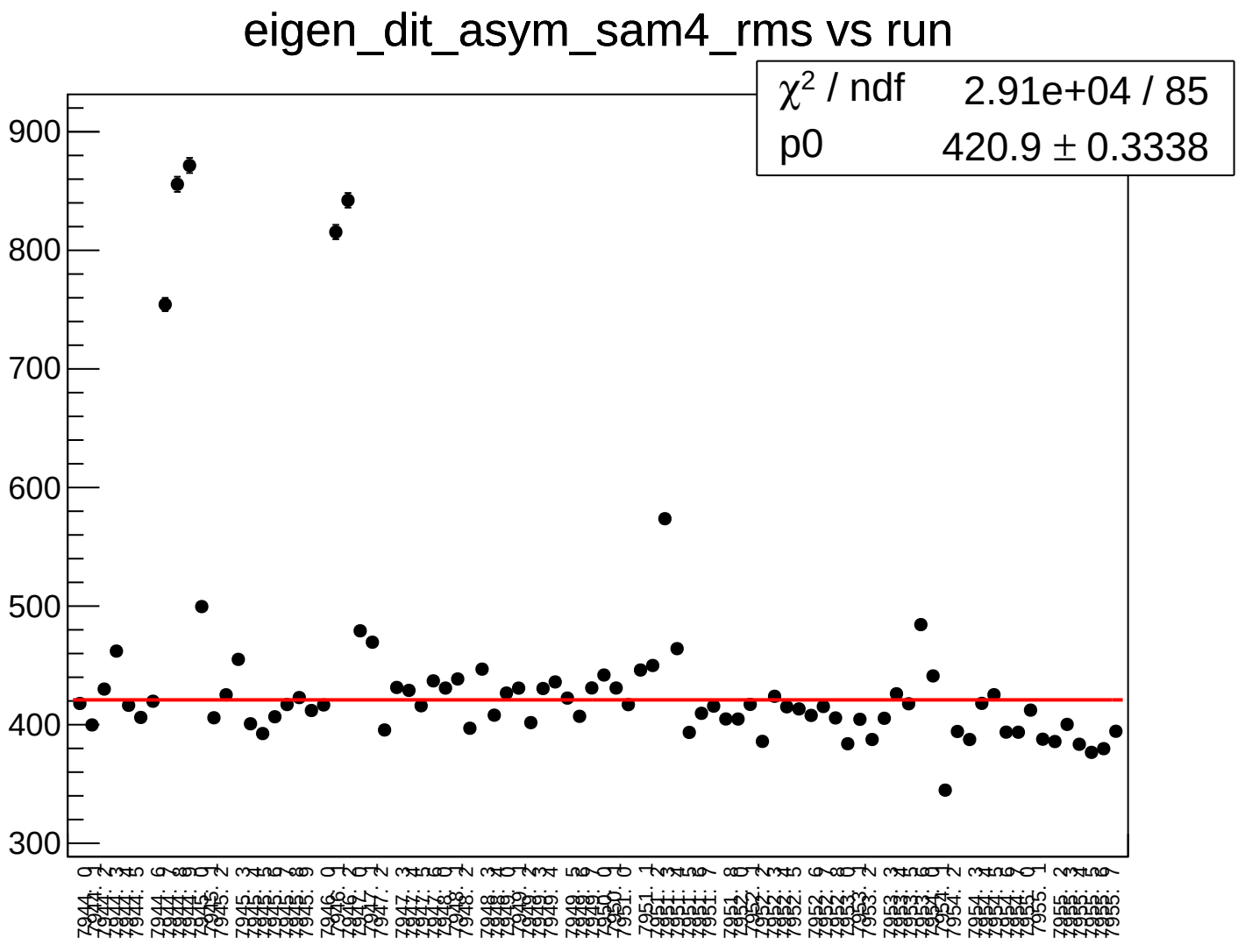

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 87.46 / 85
p0 −4834 ± 5718
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 86
Mean −2.572e+04
Std Dev 0
2
1
0
−1
−2

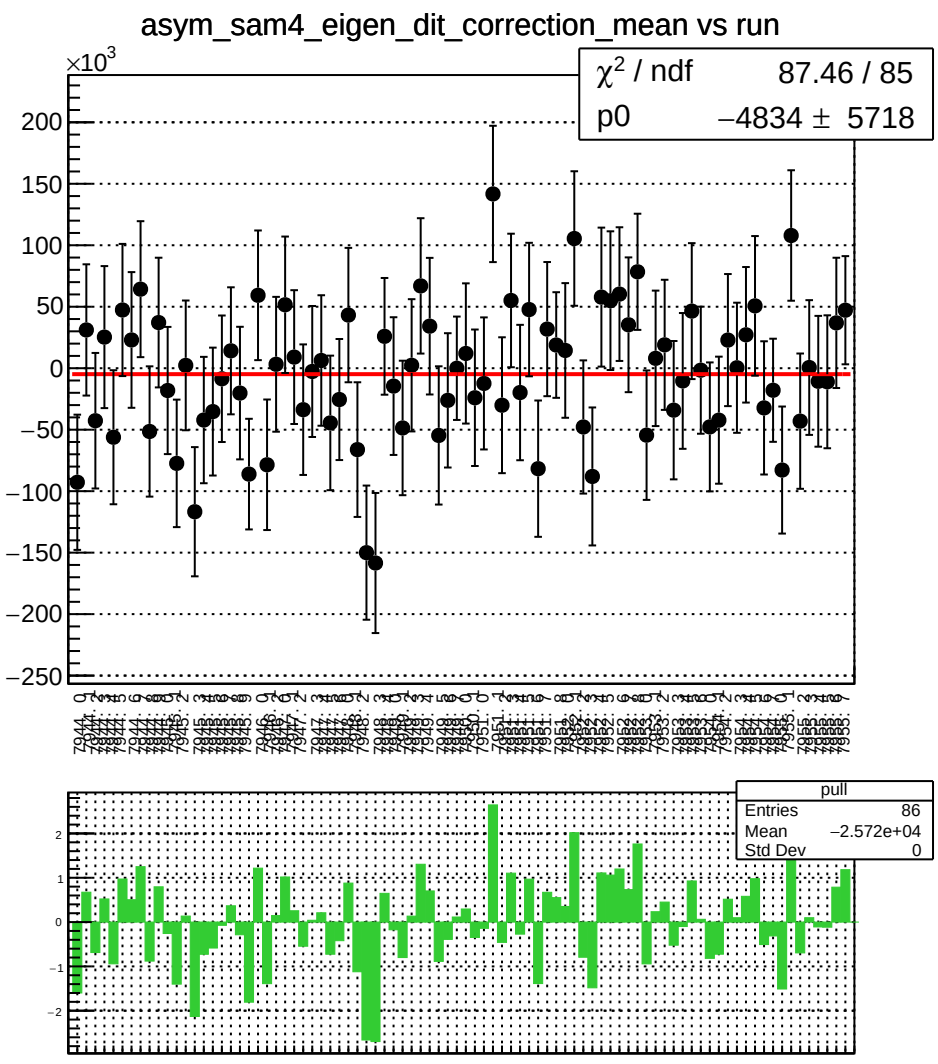

pull1D
Entries 86
Mean −0.000191
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

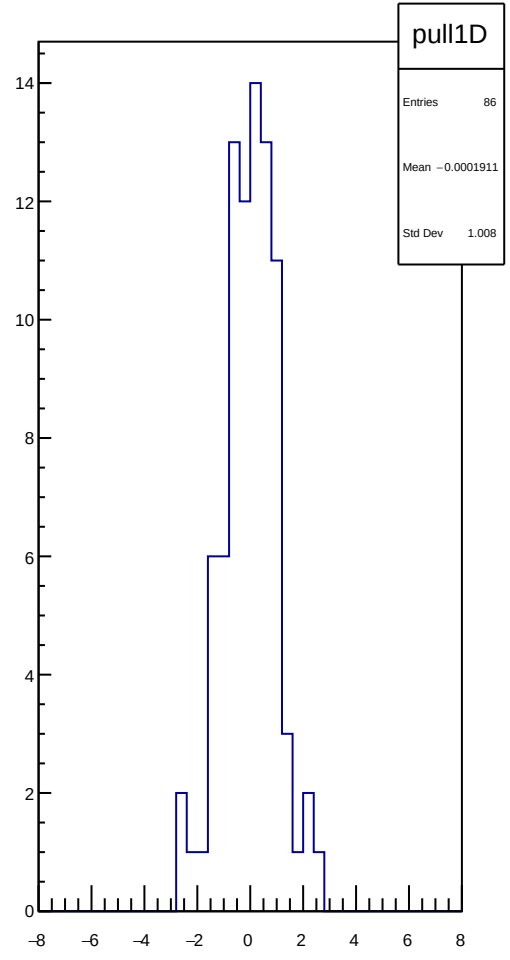

asym_sam4_dit_correction_rms vs run
χ² / ndf 1089 / 85
p0 5144 ± 4.044
5500
5400
5300
5200
5100
5000
4900
4800

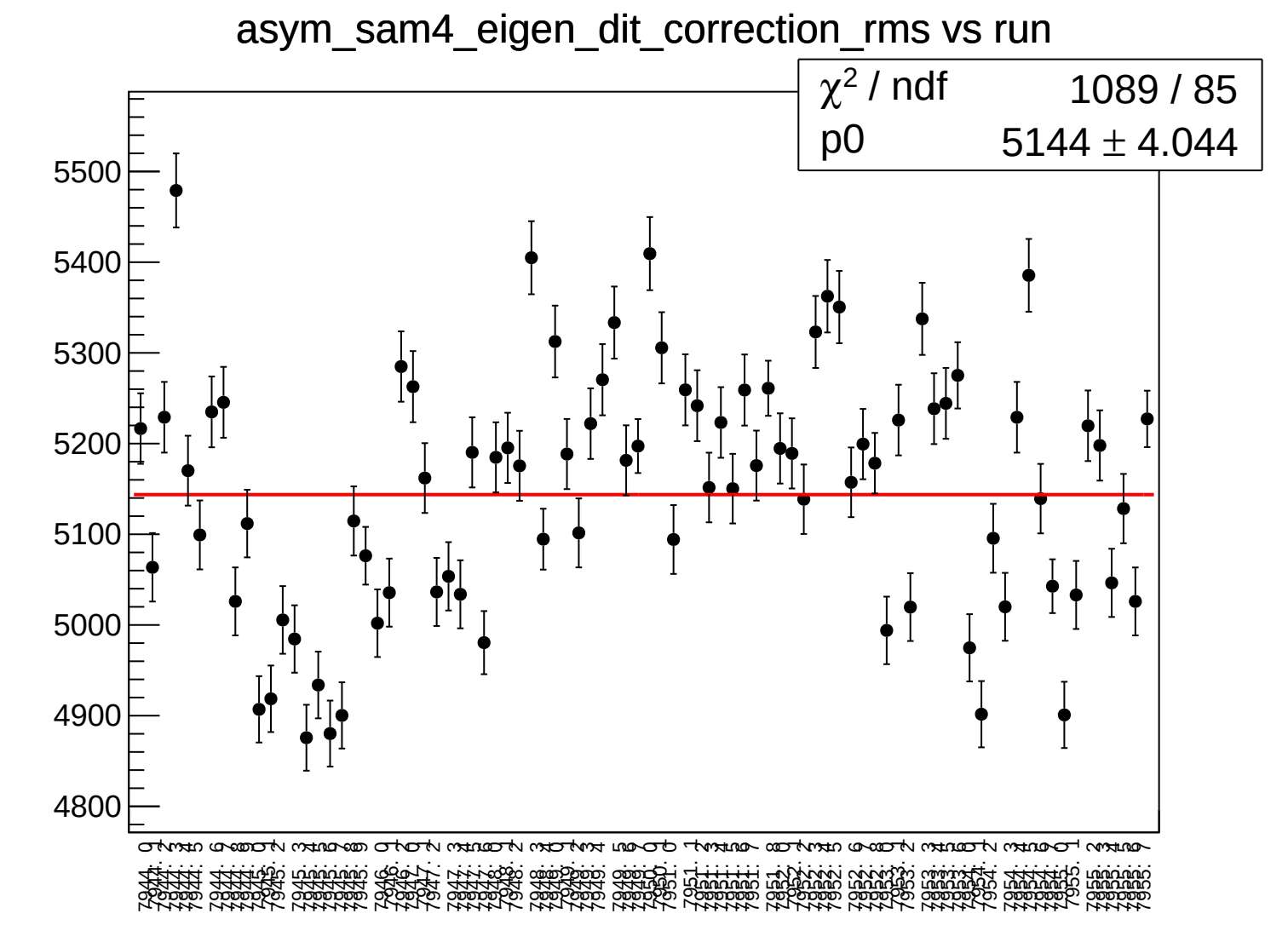

eigen_dit_asym_sam4_mean vs run
χ² / ndf 74.44 / 85
p0 173.3 ± 472.1
pull
Entries 86
Mean −76.64
Std Dev 0

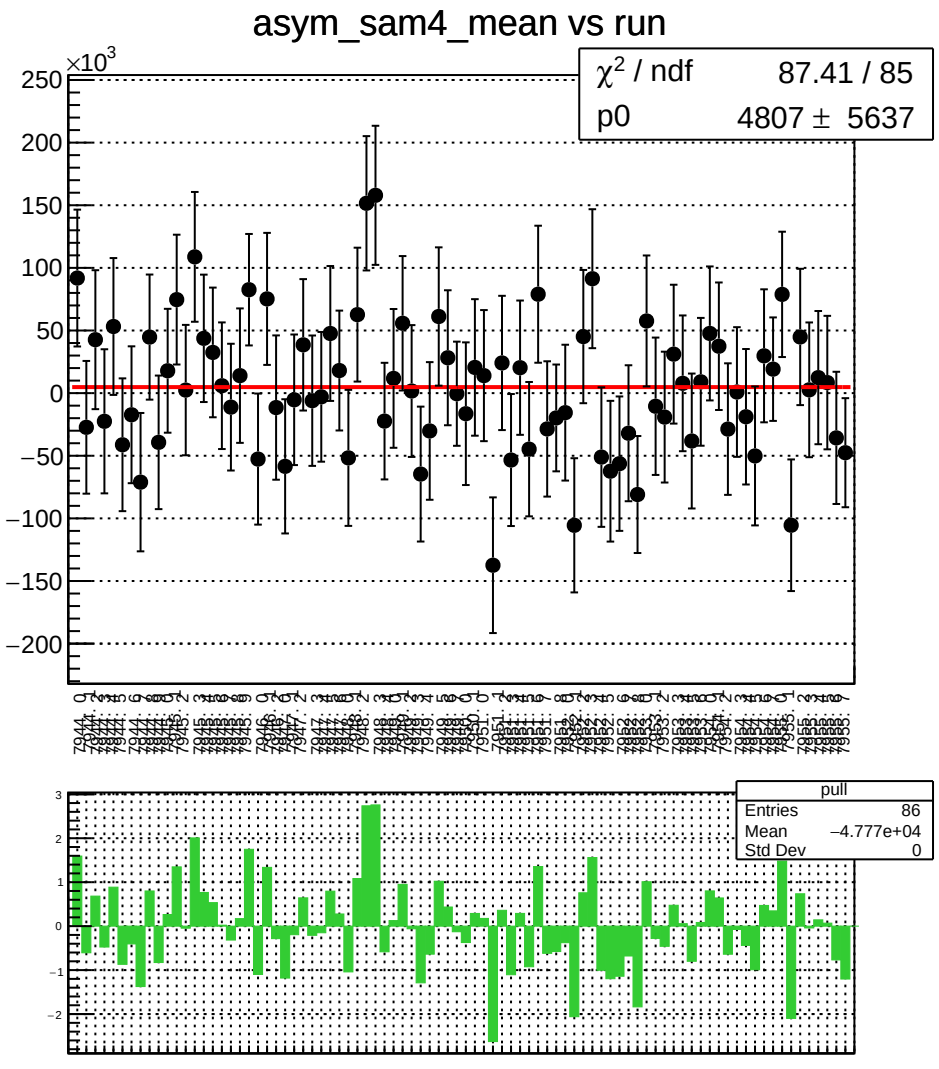

pull1D
Entries 86
Mean −0.01436
Std Dev 0.9303

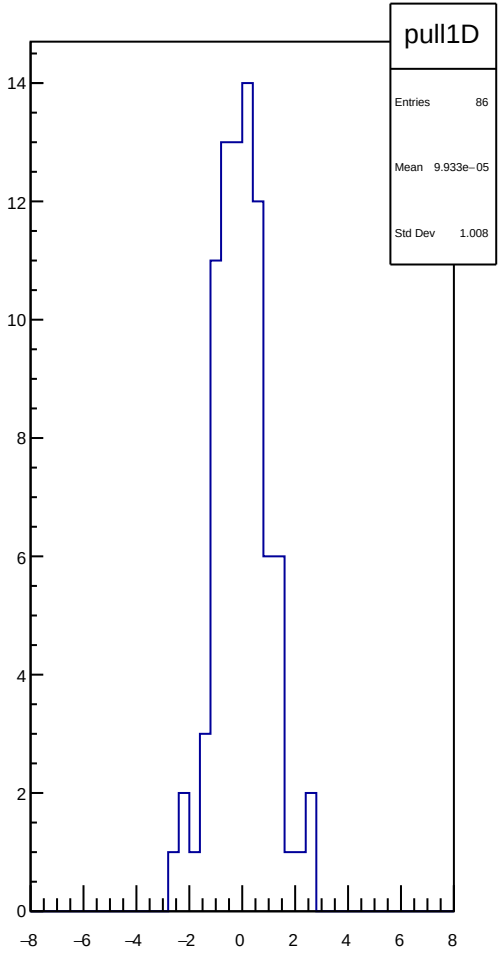

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 2.91e+04 / 85
p0 420.9 ± 0.3338
900
800
700
600
500
400
300

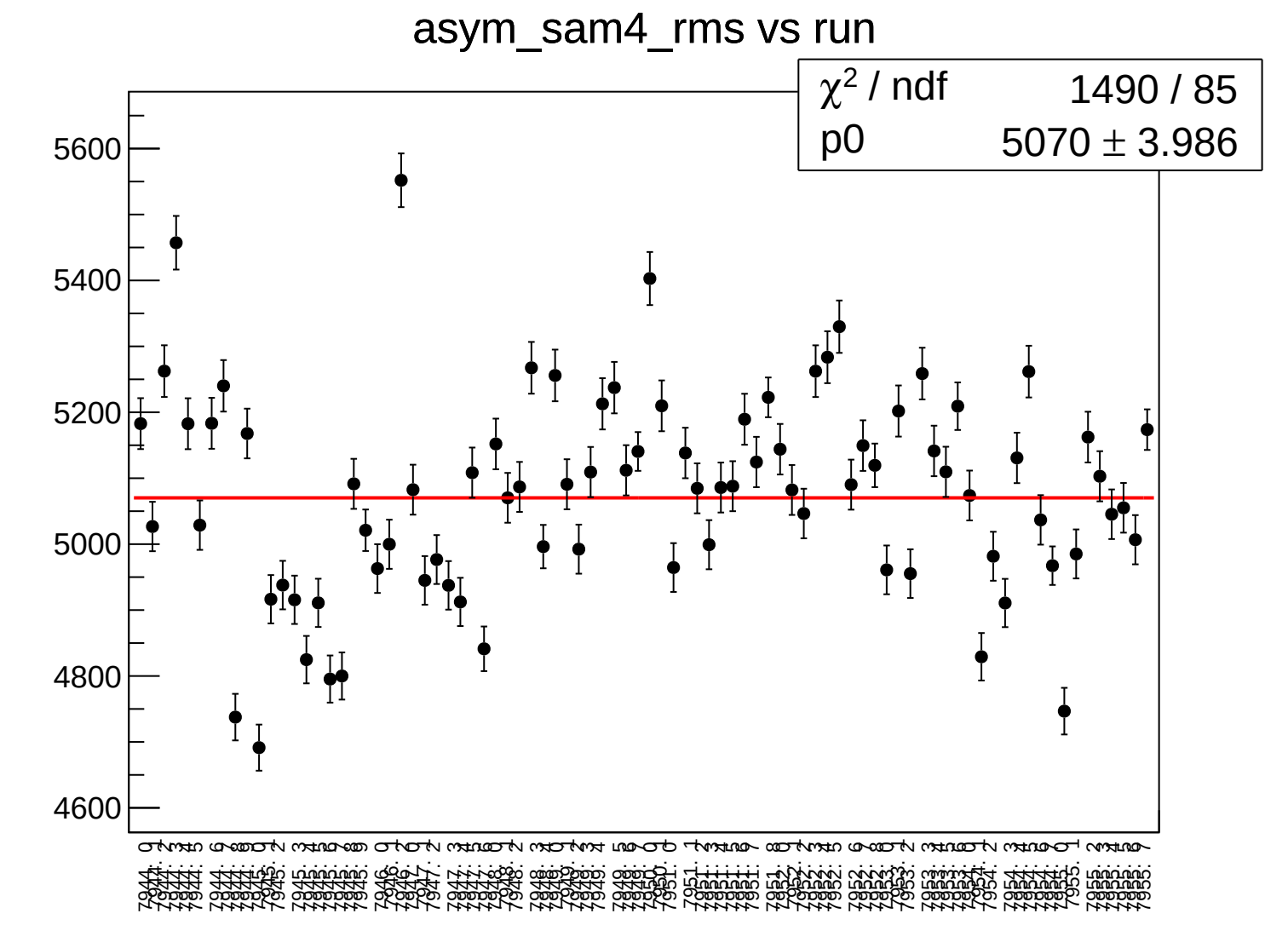

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.46 / 85
p0 −4834 ± 5718
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 86
Mean −2.572e+04
Std Dev 0
2
1
0
−1
−2

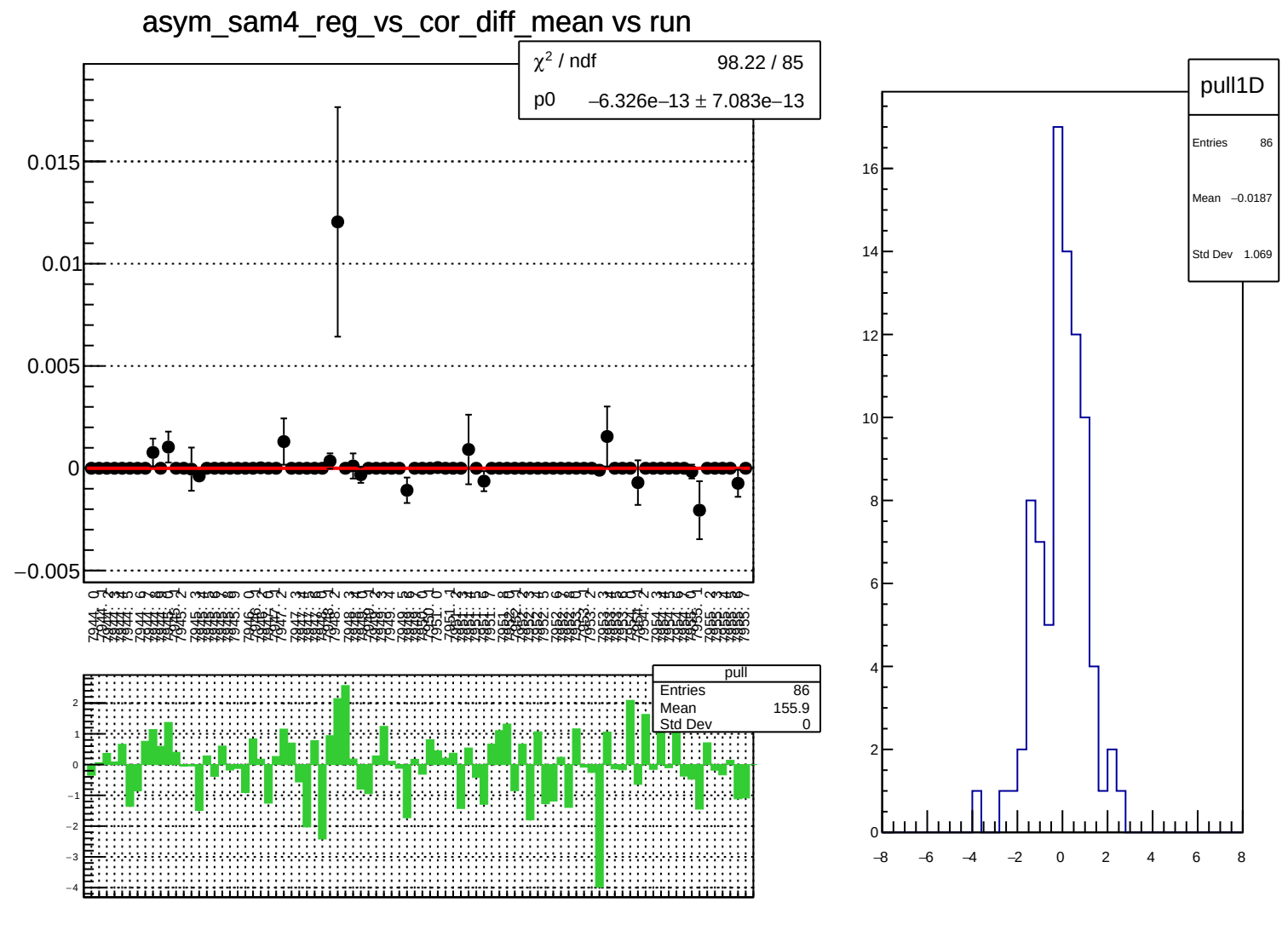

pull1D
Entries 86
Mean −0.0001911
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

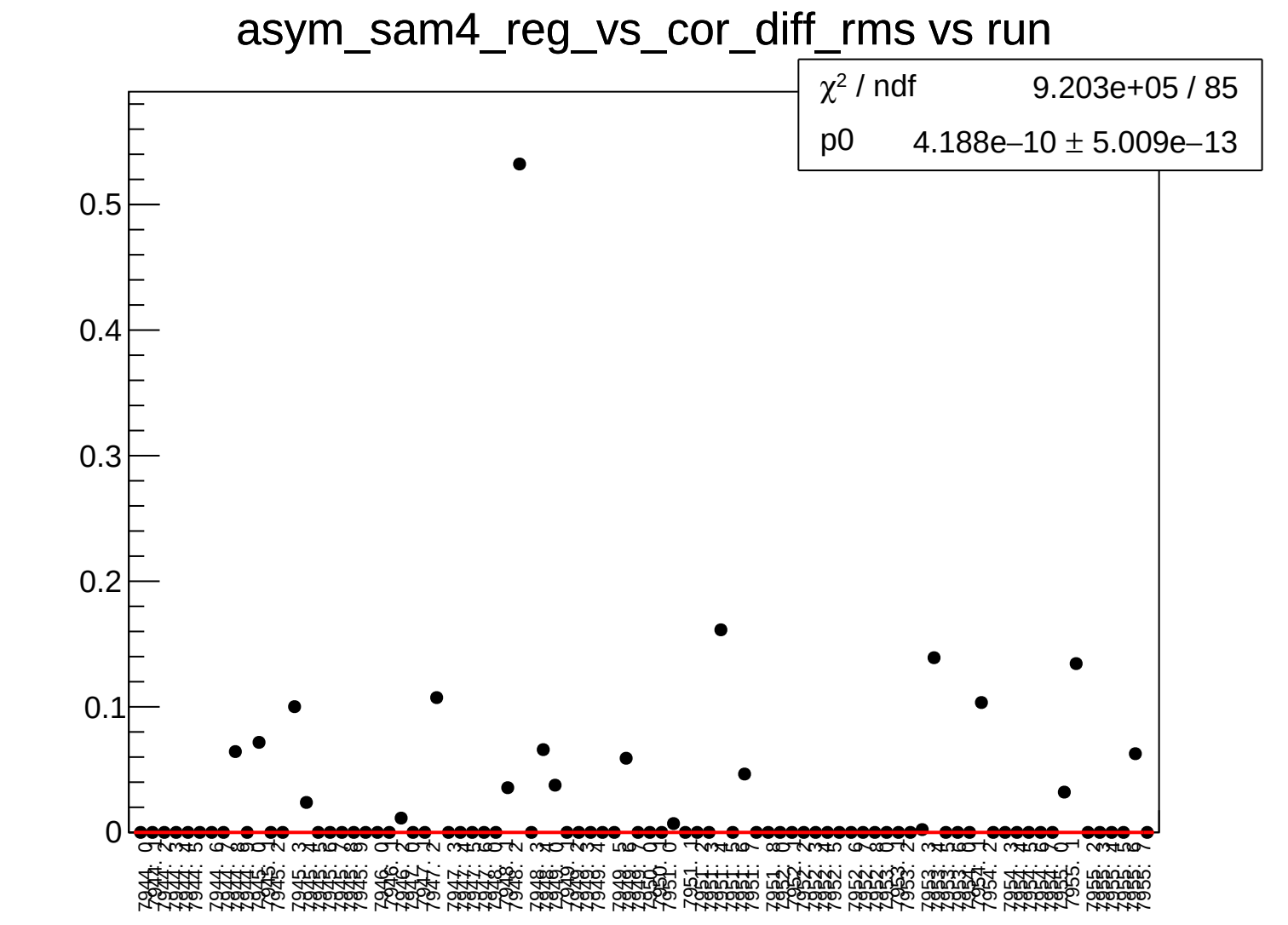

asym_sam4_eigen_dit_correction_rms vs run
χ^2 / ndf 1089 / 85
p0 5144 ± 4.044
5500
5400
5300
5200
5100
5000
4900
4800

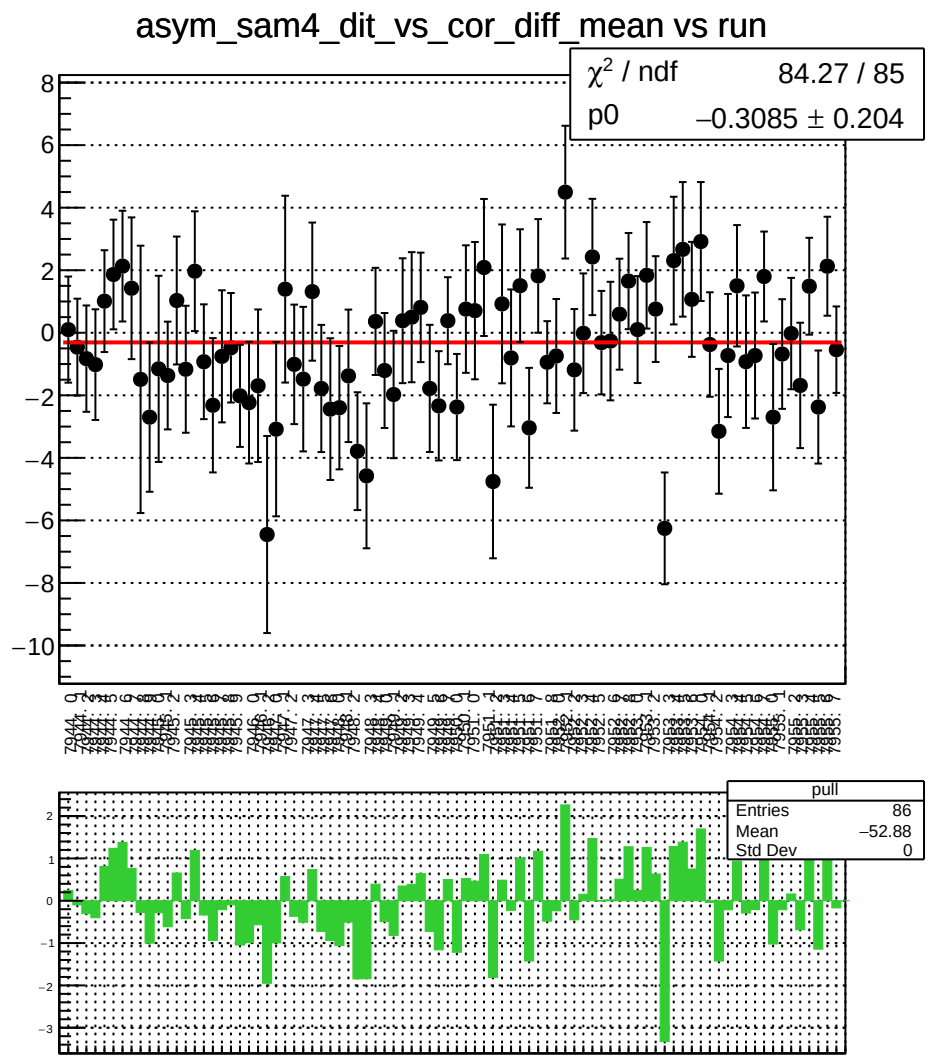

asym_sam4_mean vs run
×10^3
χ^2 / ndf 87.41 / 85
p0 4807 ± 5637
pull
Entries 86
Mean −4.777e+04
Std Dev 0

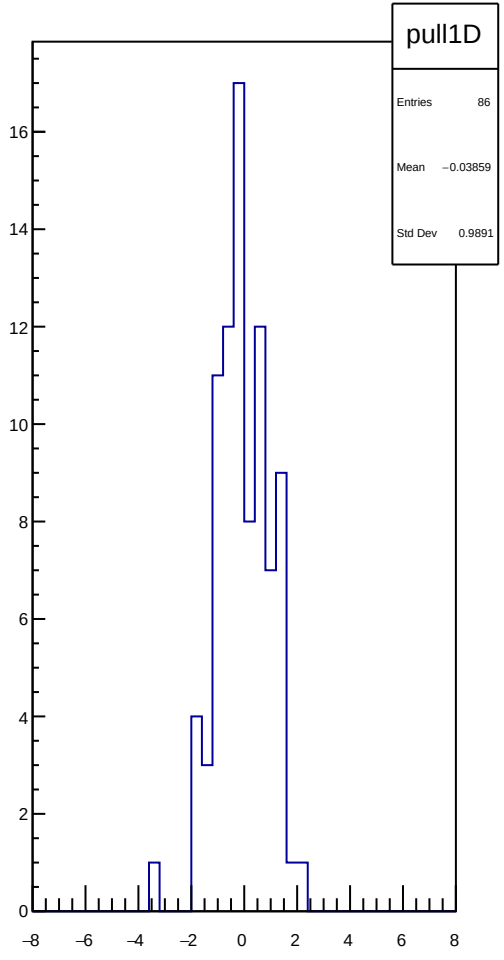

pull1D
Entries 86
Mean 9.933e−05
Std Dev 1.008

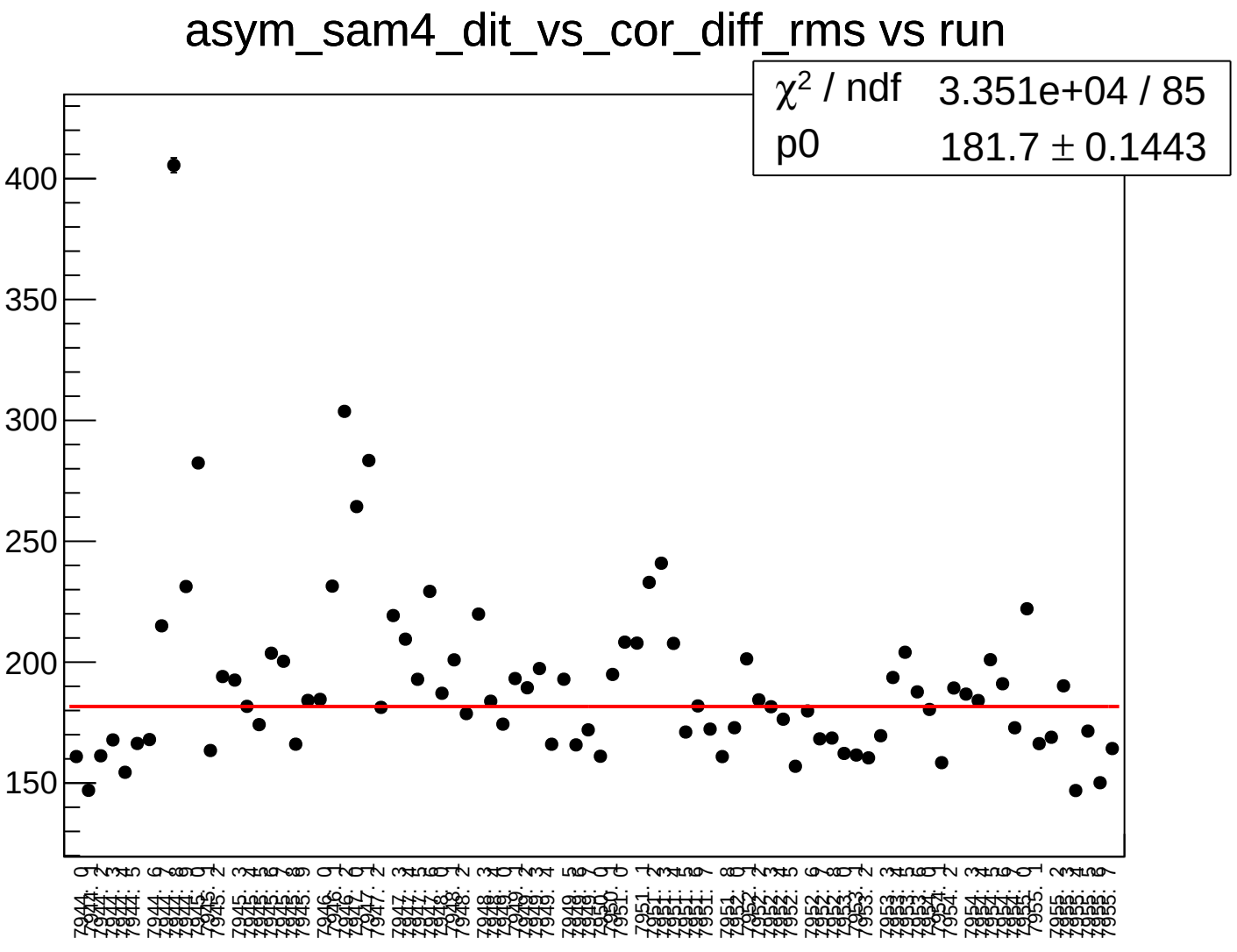

asym_sam4_rms vs run
χ^2 / ndf 1490 / 85
p0 5070 ± 3.986
5600
5400
5200
5000
4800
4600

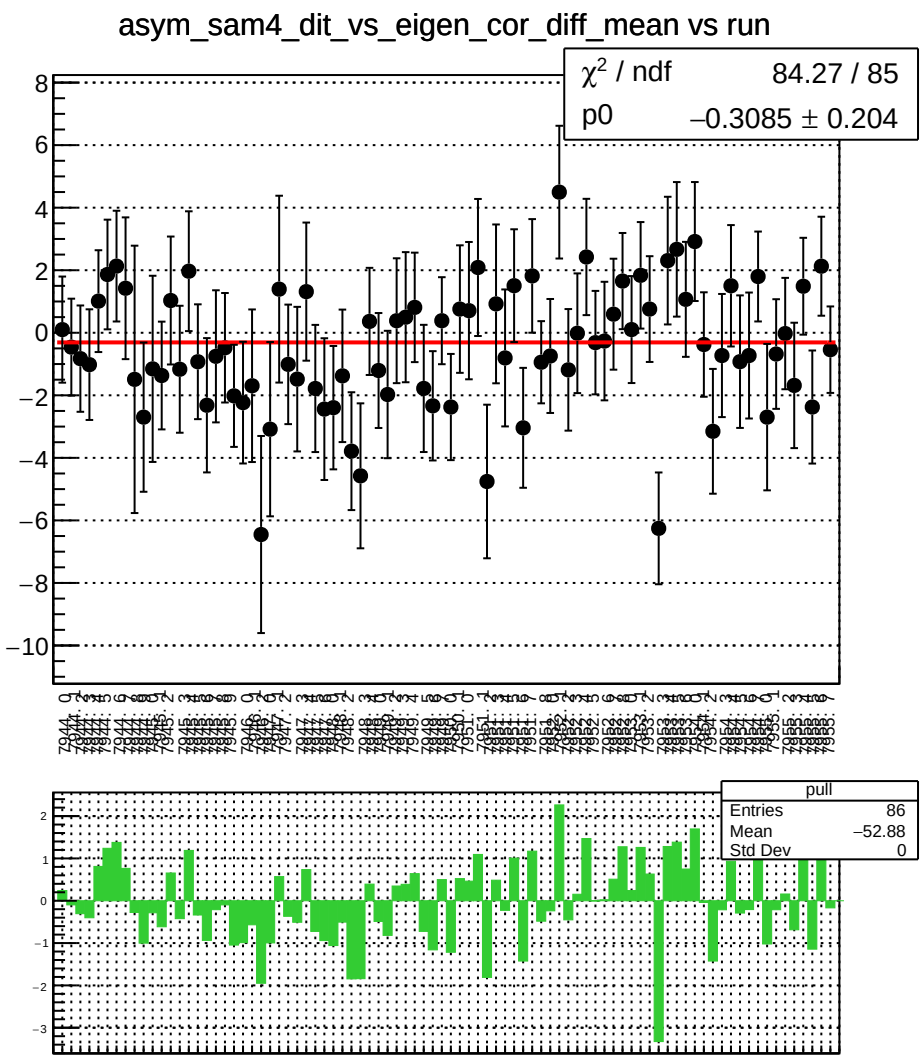

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 98.22 / 85
p0 −6.326e−13 ± 7.083e−13
0.015
0.01
0.005
0
−0.005
pull
Entries 86
Mean 155.9
Std Dev 0
pull1D
Entries 86
Mean −0.0187
Std Dev 1.069

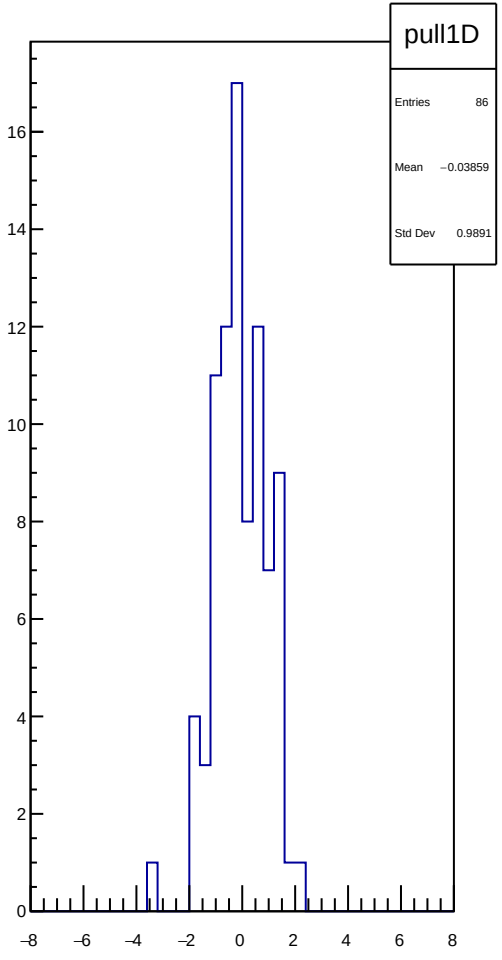

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.203e+05 / 85
p0 4.188e−10 ± 5.009e−13
0.5
0.4
0.3
0.2
0.1
0

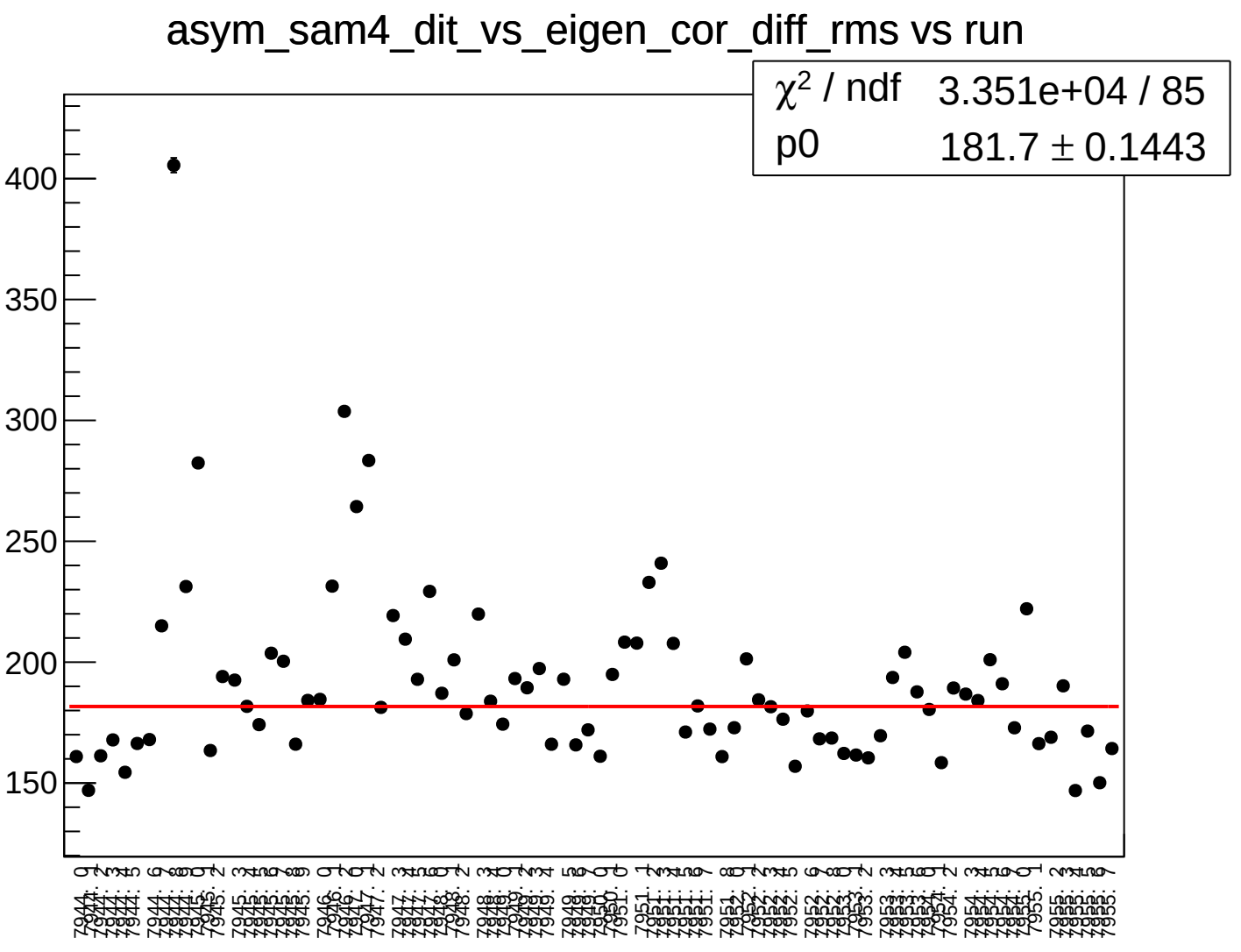

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 84.27 / 85
p0 −0.3085 ± 0.204
pull
Entries 86
Mean −52.88
Std Dev 0

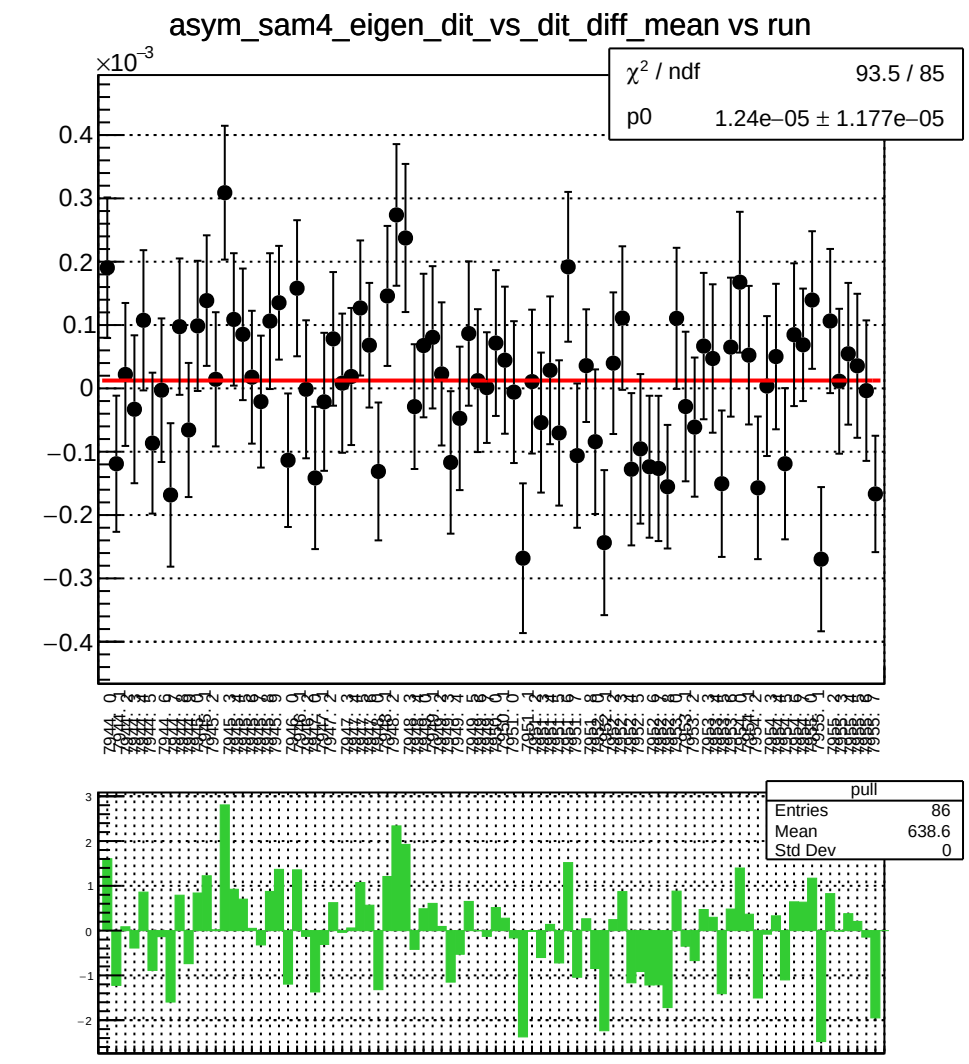

pull1D
Entries 86
Mean −0.03859
Std Dev 0.9891

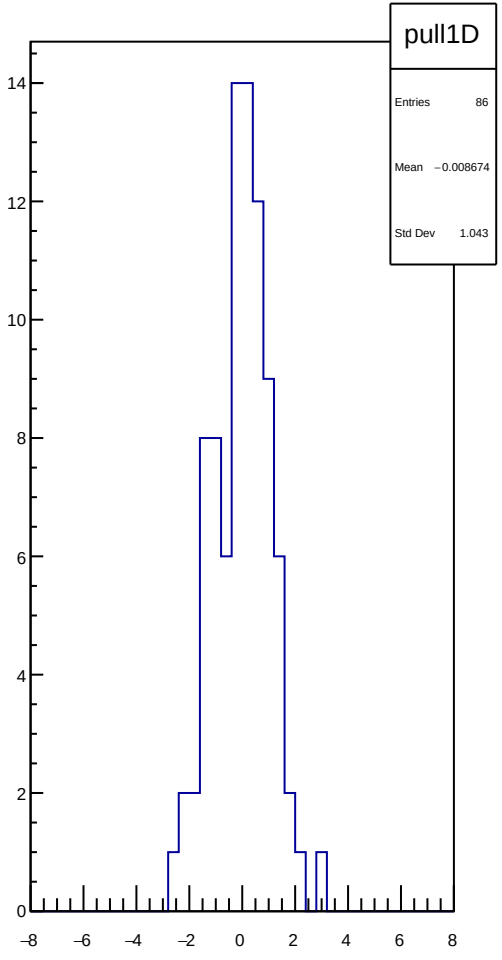

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.351e+04 / 85
p0 181.7 ± 0.1443
400
350
300
250
200
150

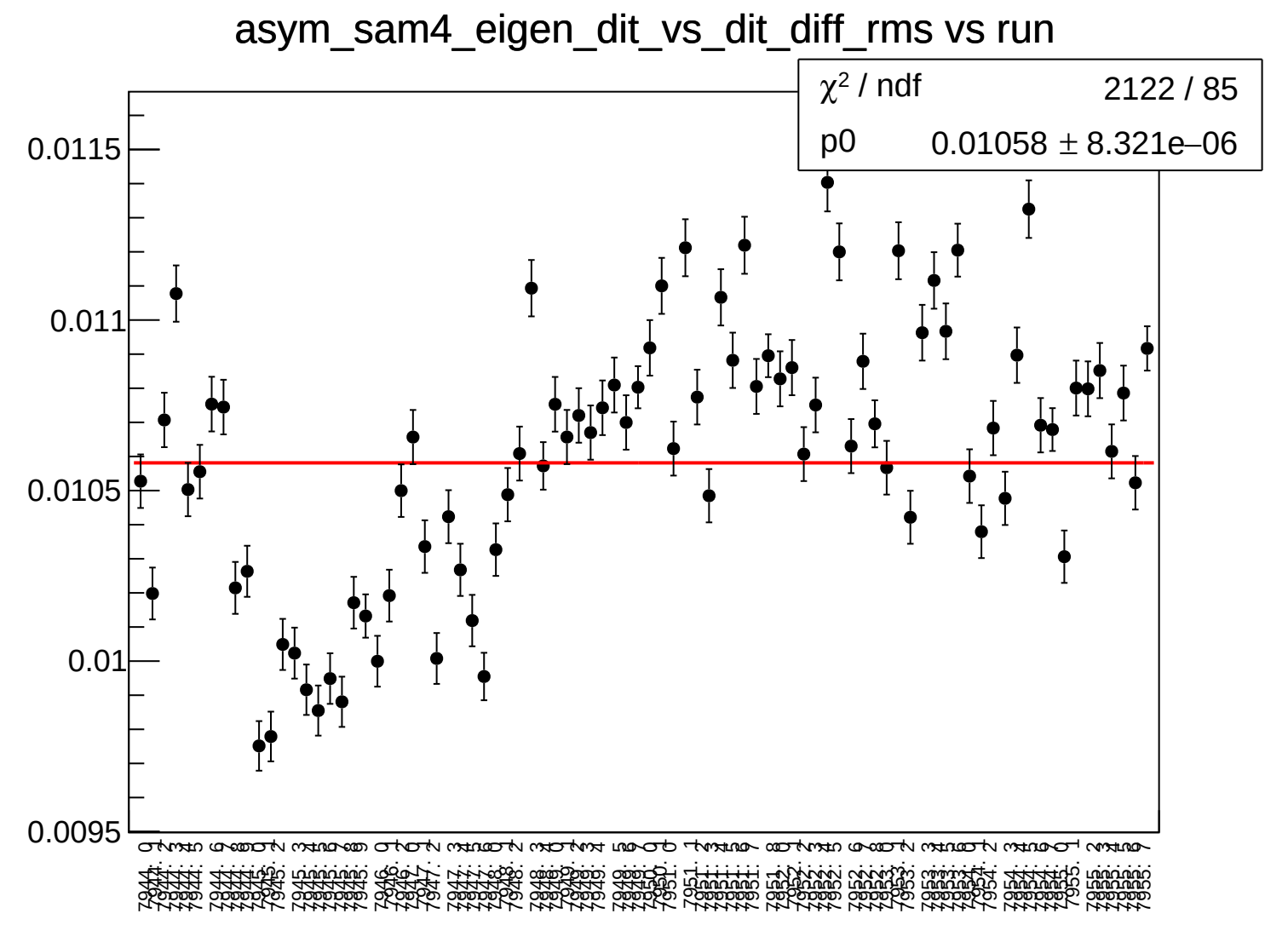

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.27 / 85
p0 −0.3085 ± 0.204
pull
Entries 86
Mean −52.88
Std Dev 0

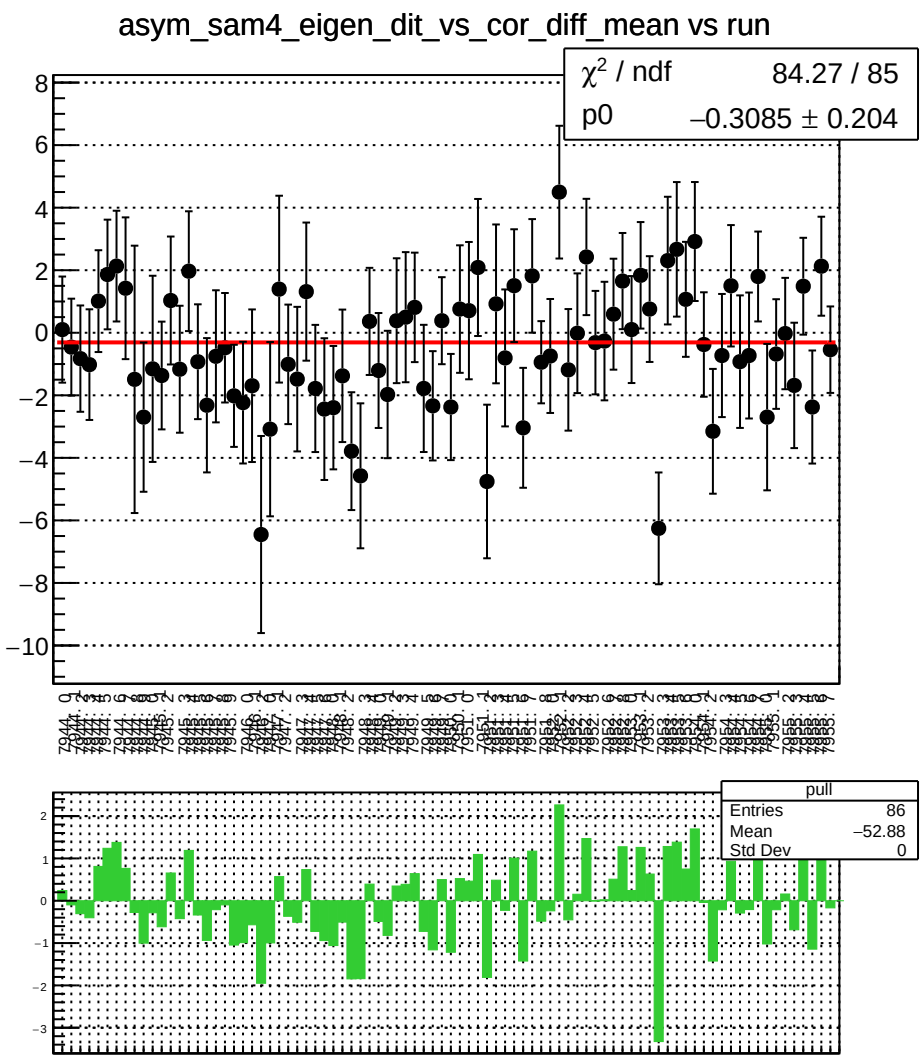

pull1D
Entries 86
Mean −0.03859
Std Dev 0.9891

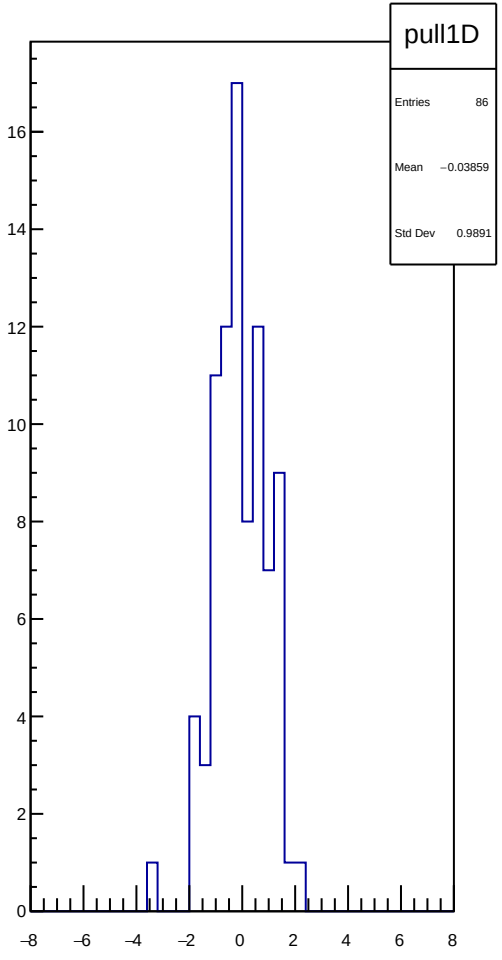

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.351e+04 / 85
p0 181.7 ± 0.1443
400
350
300
250
200
150

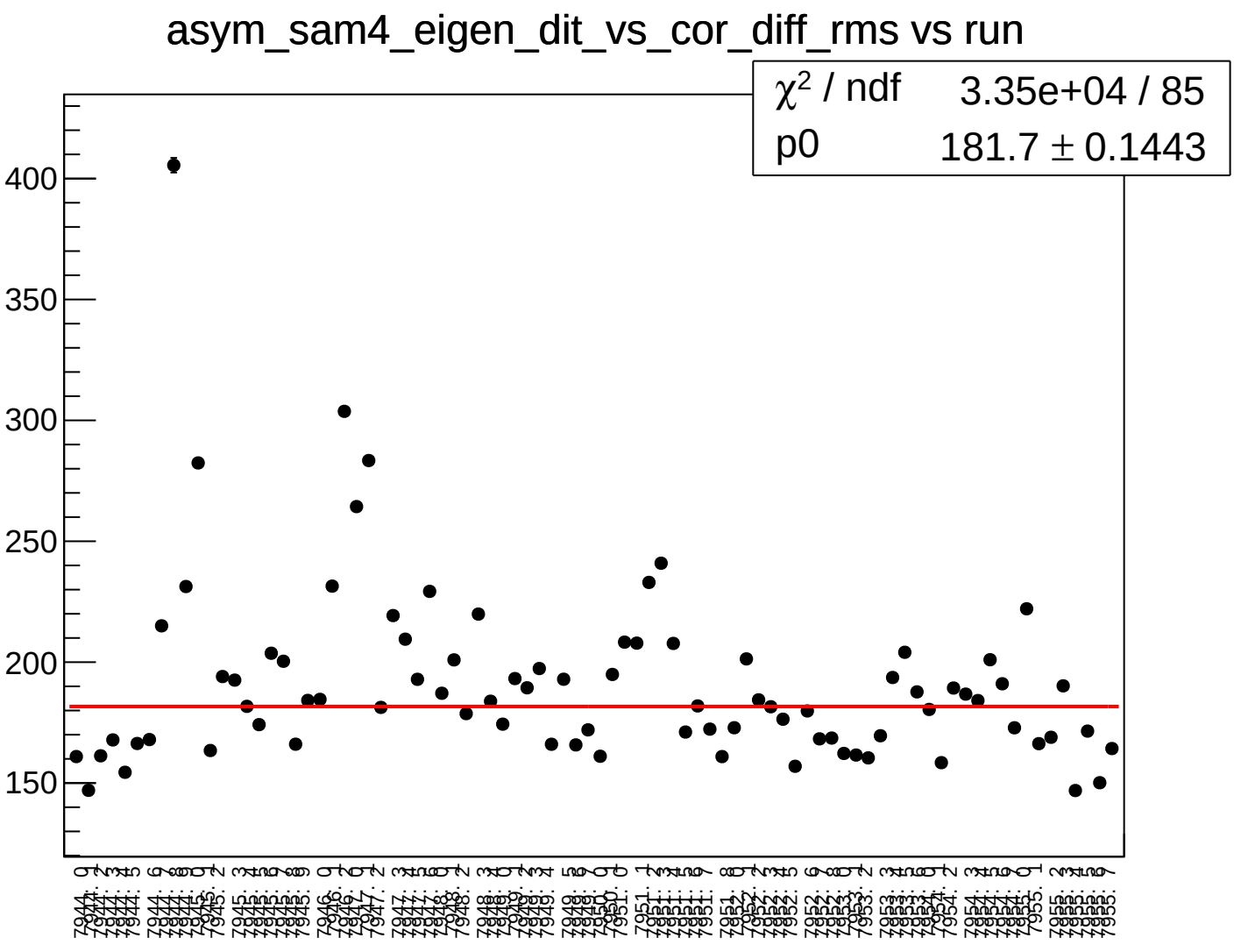

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.5 / 85
p0 1.24e−05 ± 1.177e−05
pull
Entries 86
Mean 638.6
Std Dev 0

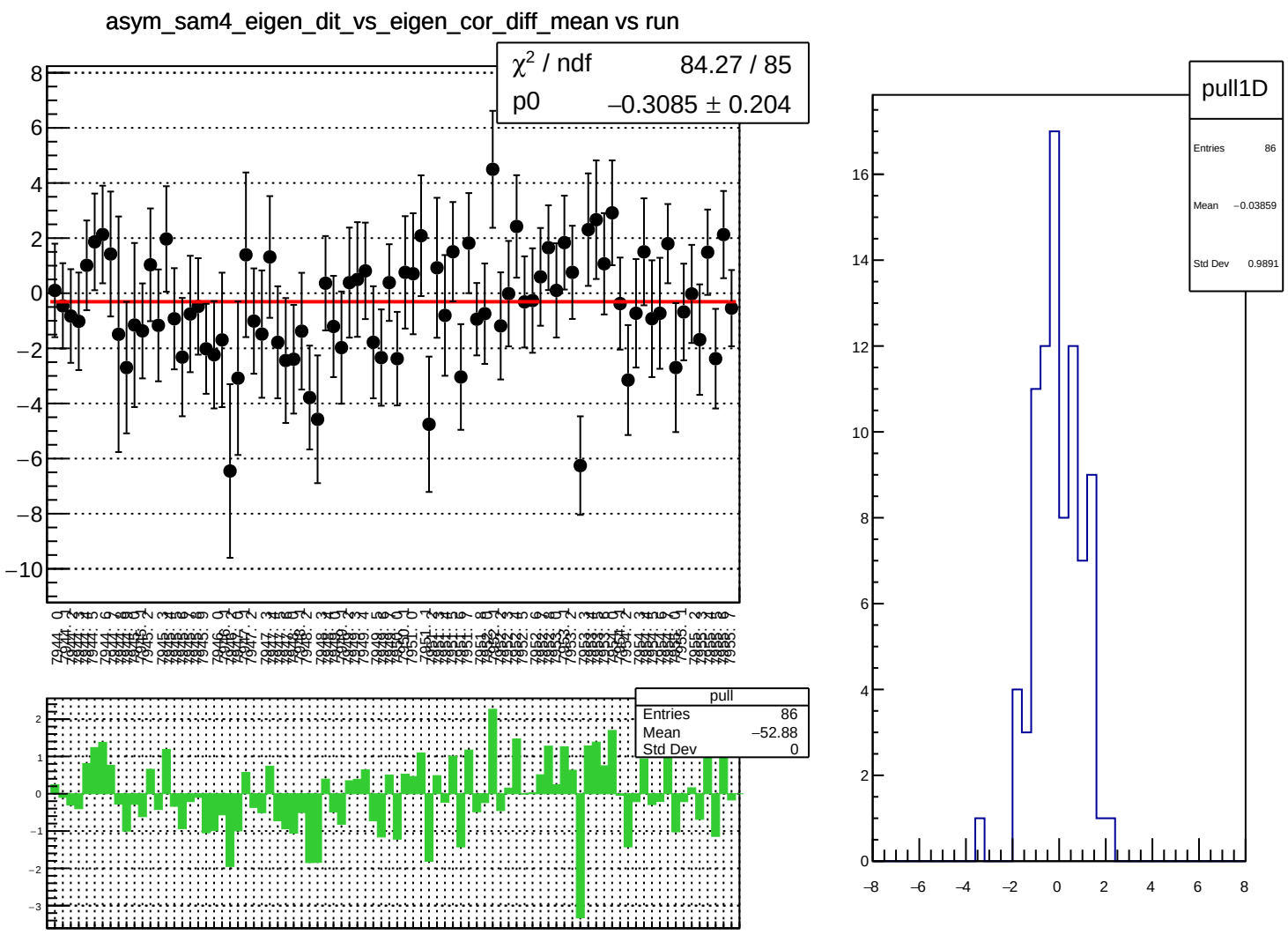

pull1D
Entries 86
Mean −0.008674
Std Dev 1.043

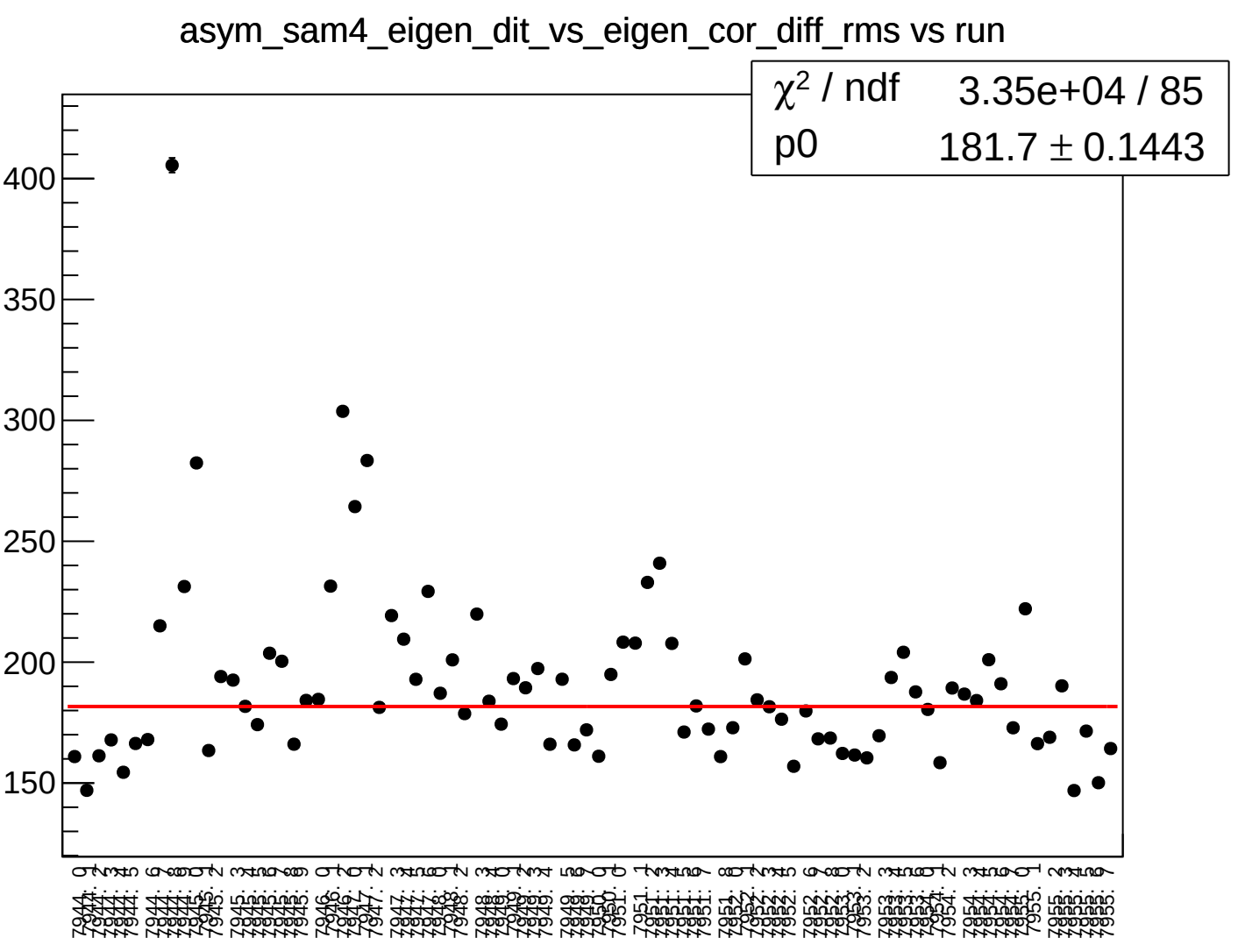

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2122 / 85
p0 0.01058 ± 8.321e–06
0.0115
0.011
0.0105
0.01
0.0095

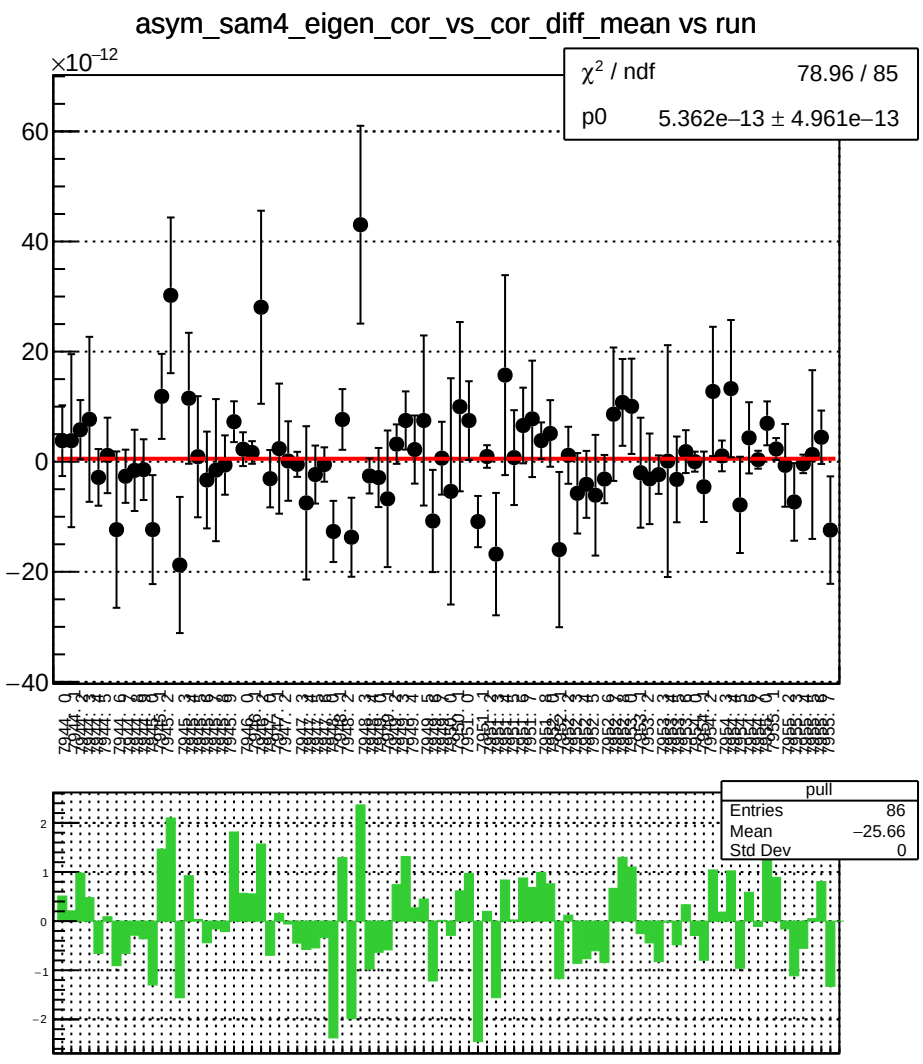

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.27 / 85
p0 −0.3085 ± 0.204
pull
Entries 86
Mean −52.88
Std Dev 0

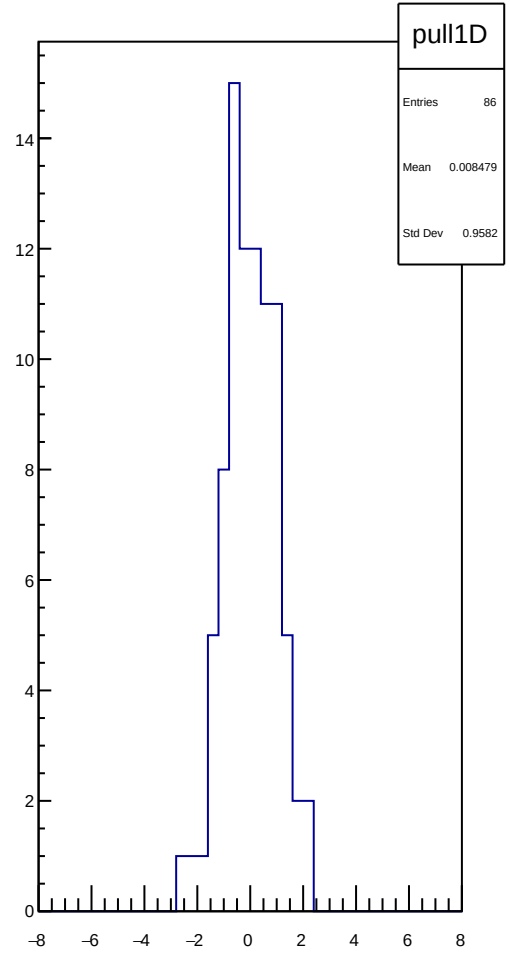

pull1D
Entries 86
Mean −0.03859
Std Dev 0.9891

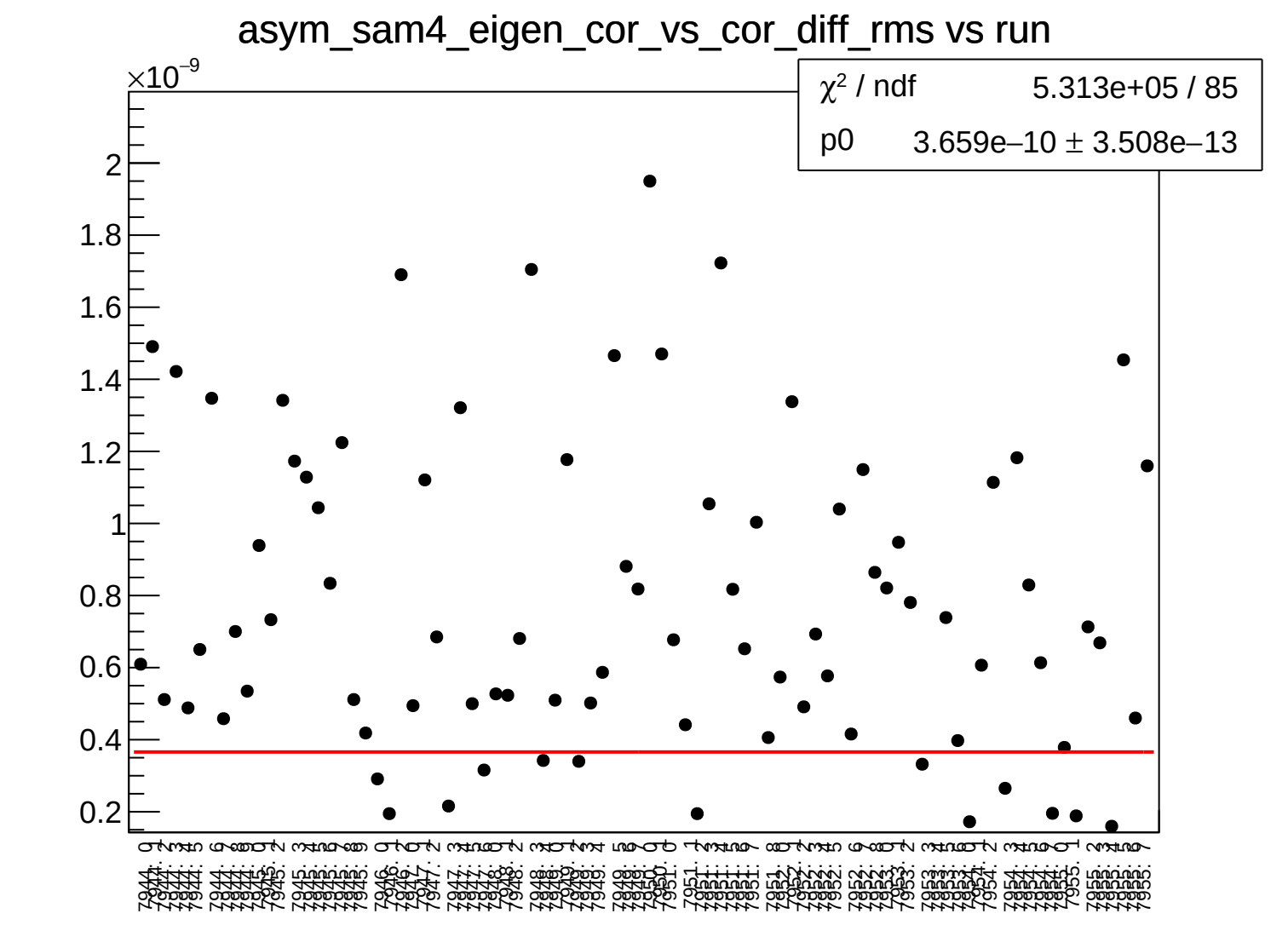

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.35e+04 / 85
p0 181.7 ± 0.1443
400
350
300
250
200
150

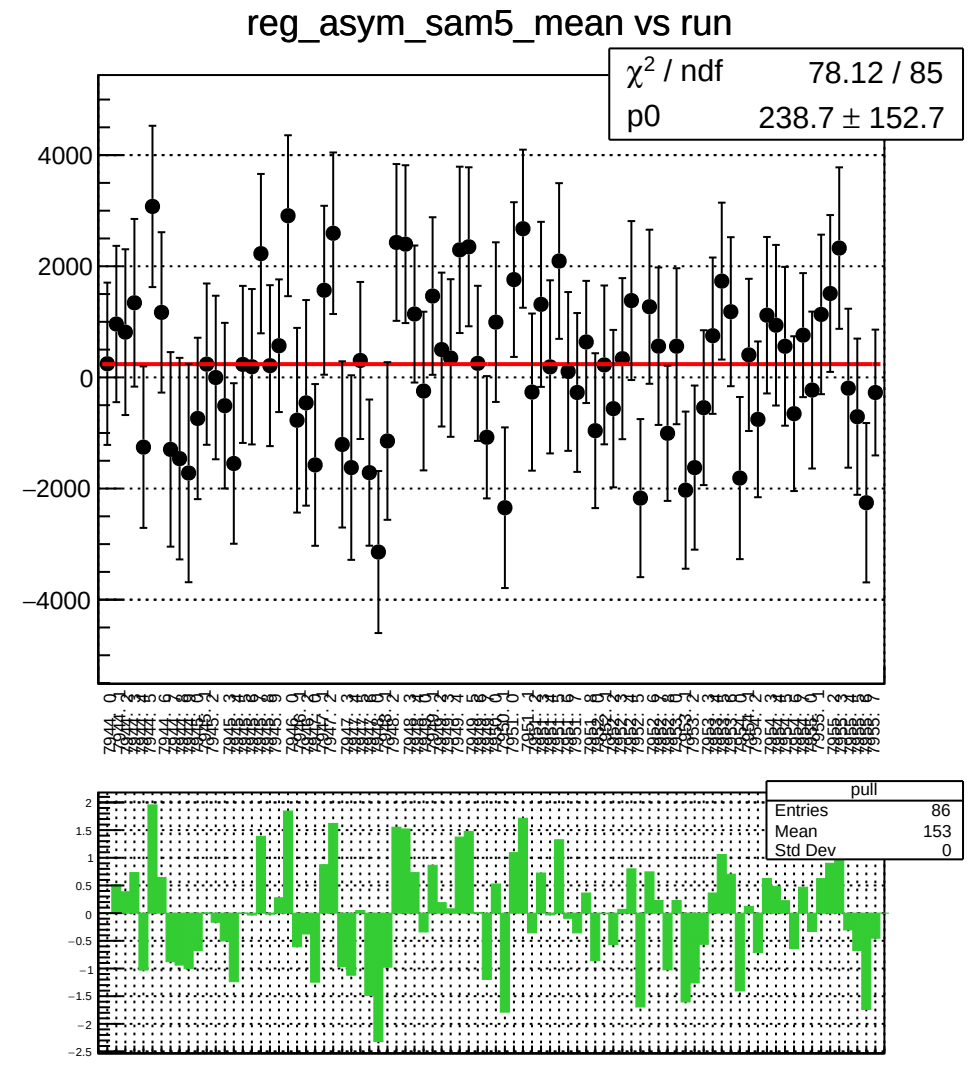

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.27 / 85
p0 −0.3085 ± 0.204
pull
Entries 86
Mean −52.88
Std Dev 0
pull1D
Entries 86
Mean −0.03859
Std Dev 0.9891

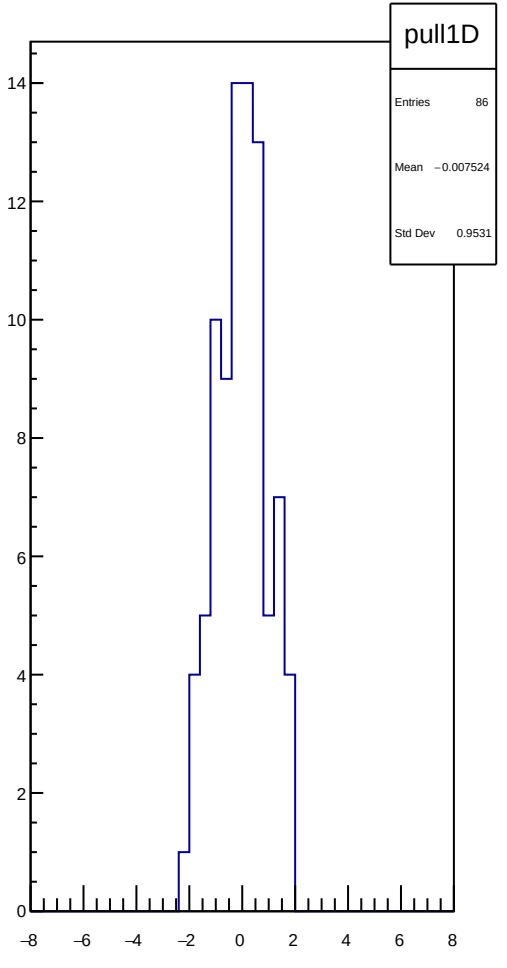

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.35e+04 / 85
p0 181.7 ± 0.1443
400
350
300
250
200
150

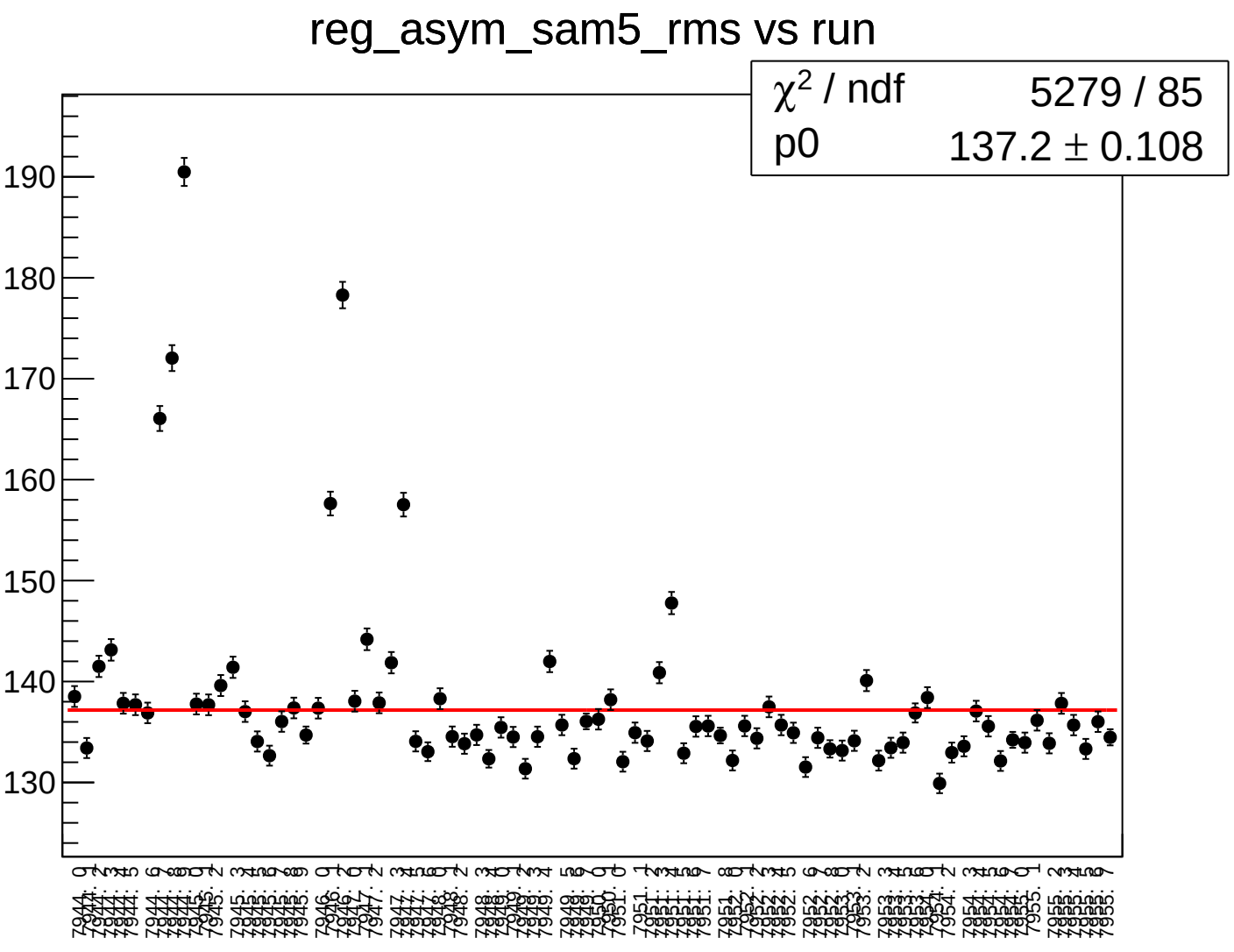

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.96 / 85
p0 5.362e−13 ± 4.961e−13
60
40
20
0
−20
−40
pull
Entries 86
Mean −25.66
Std Dev 0
2
1
0
−1
−2

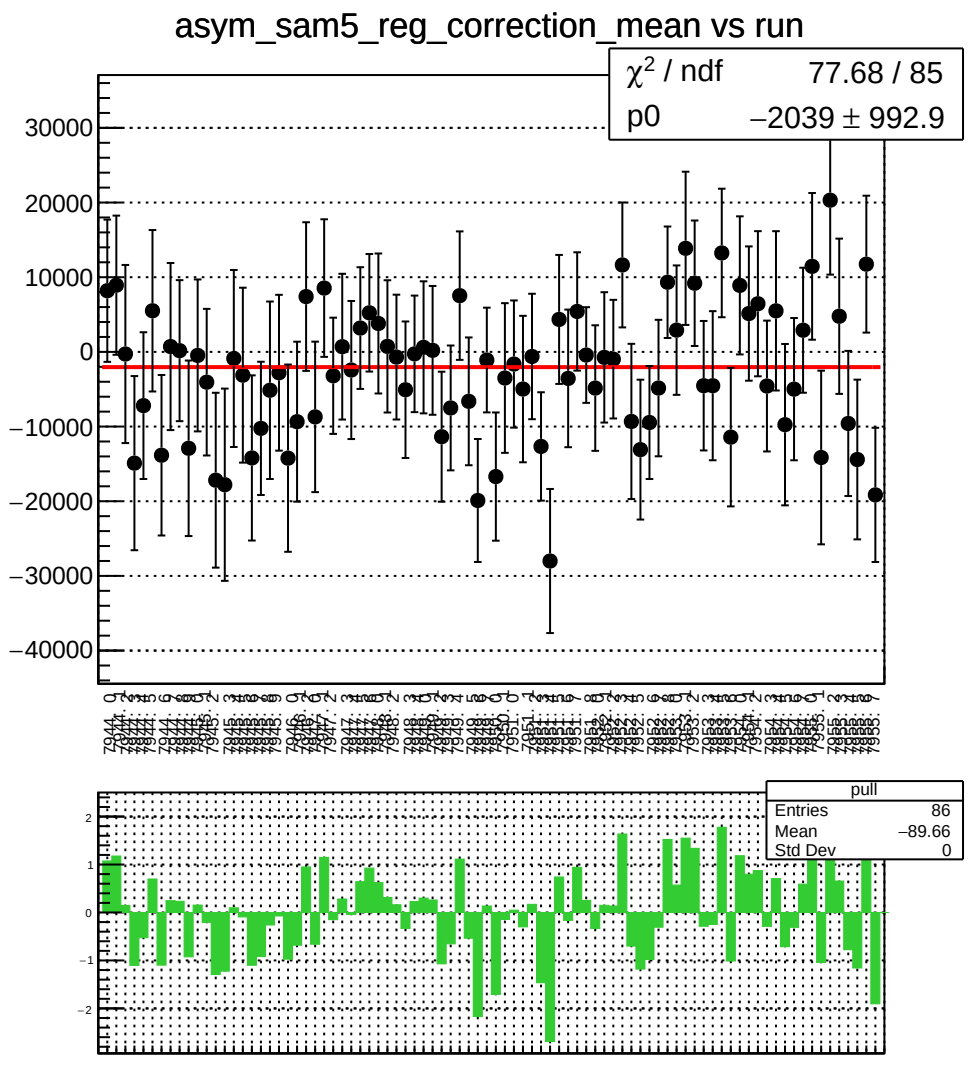

pull1D
Entries 86
Mean 0.008479
Std Dev 0.9582
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

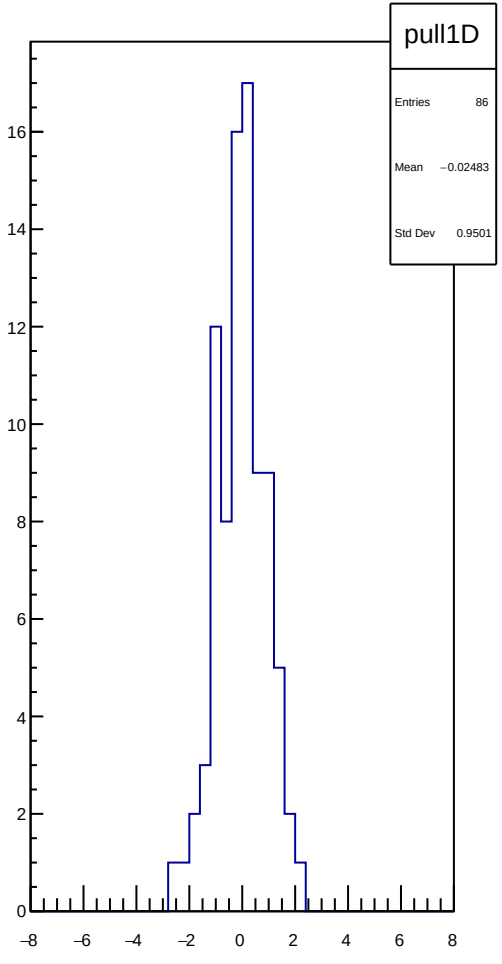

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.313e+05 / 85
p0 3.659e−10 ± 3.508e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

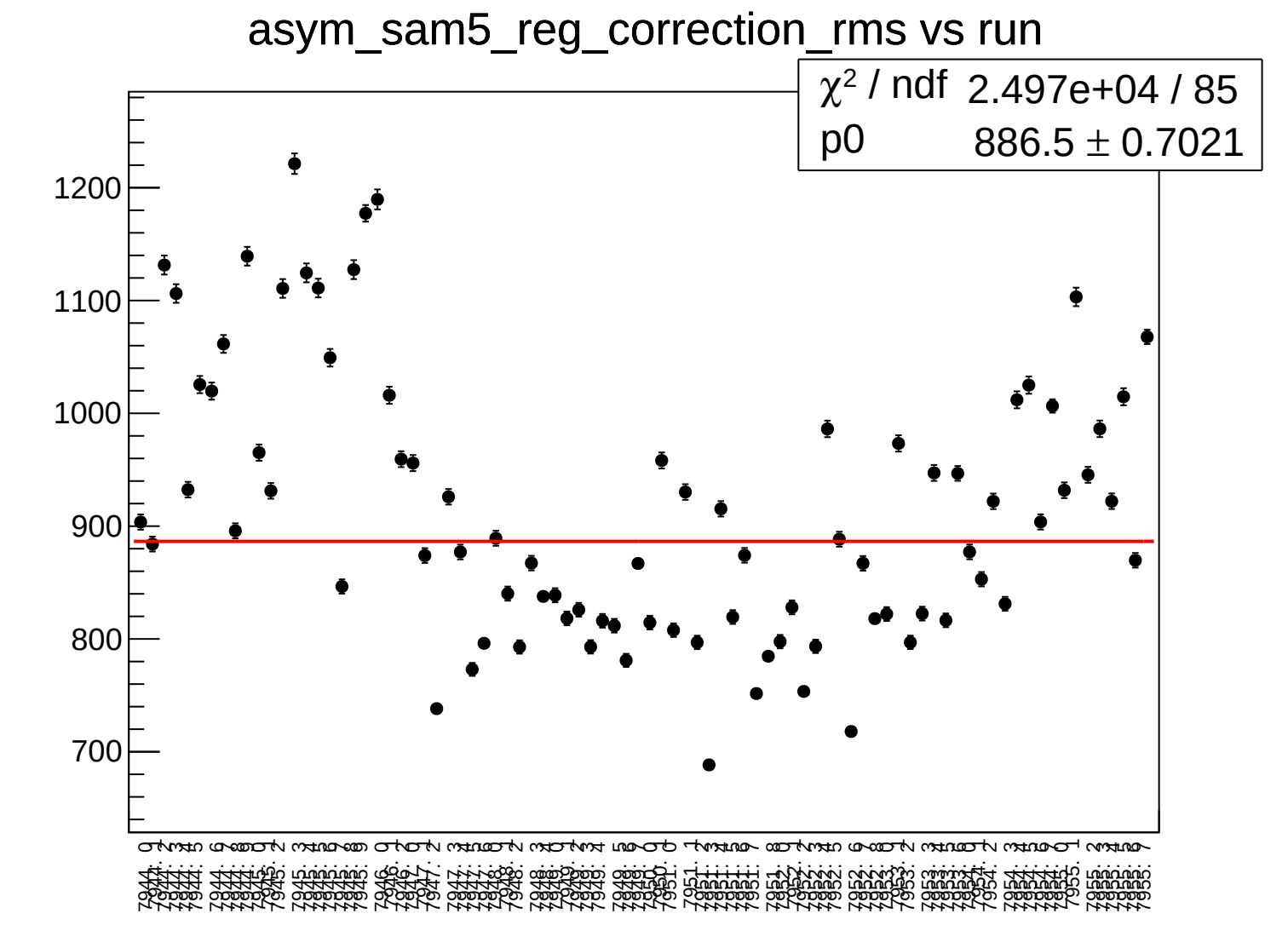

reg_asym_sam5_mean vs run
χ² / ndf 78.12 / 85
p0 238.7 ± 152.7
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 153
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

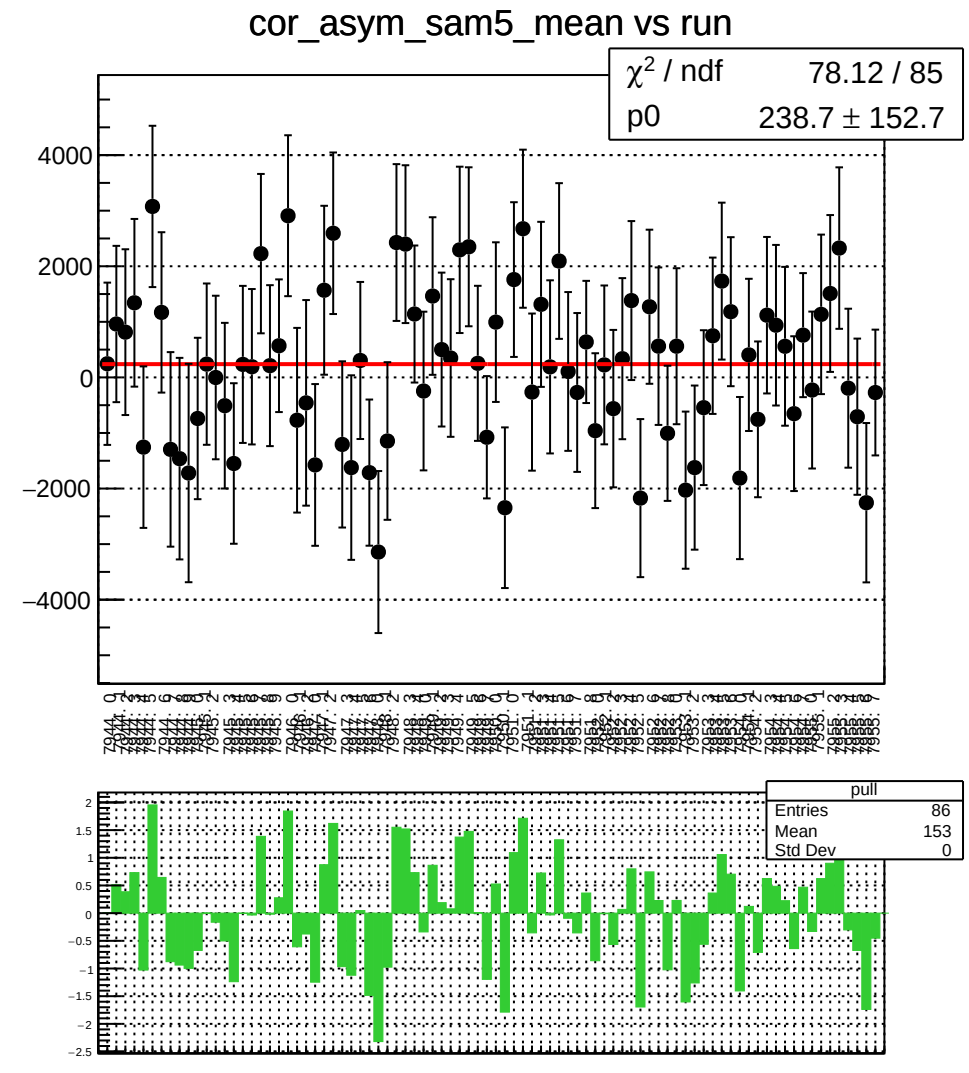

pull1D
Entries 86
Mean −0.007524
Std Dev 0.9531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

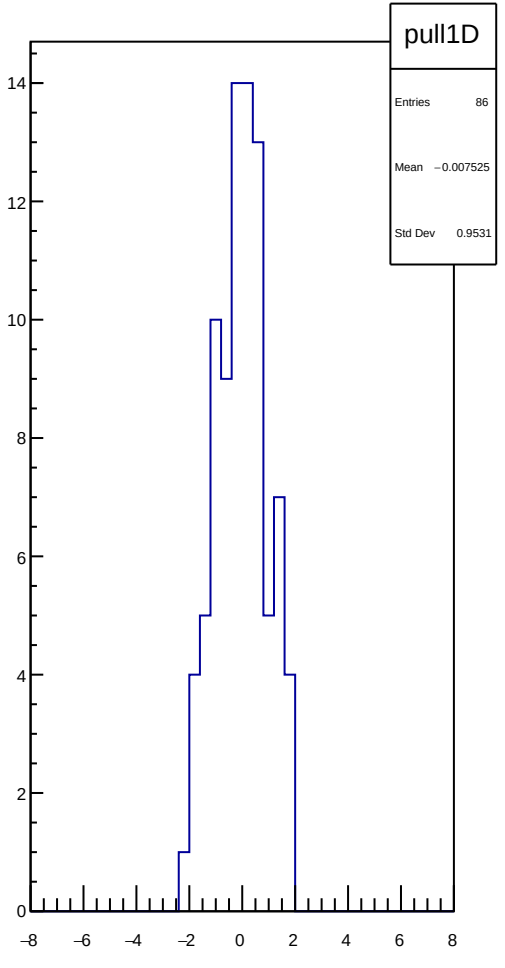

reg_asym_sam5_rms vs run
χ² / ndf 5279 / 85
p0 137.2 ± 0.108
190
180
170
160
150
140
130

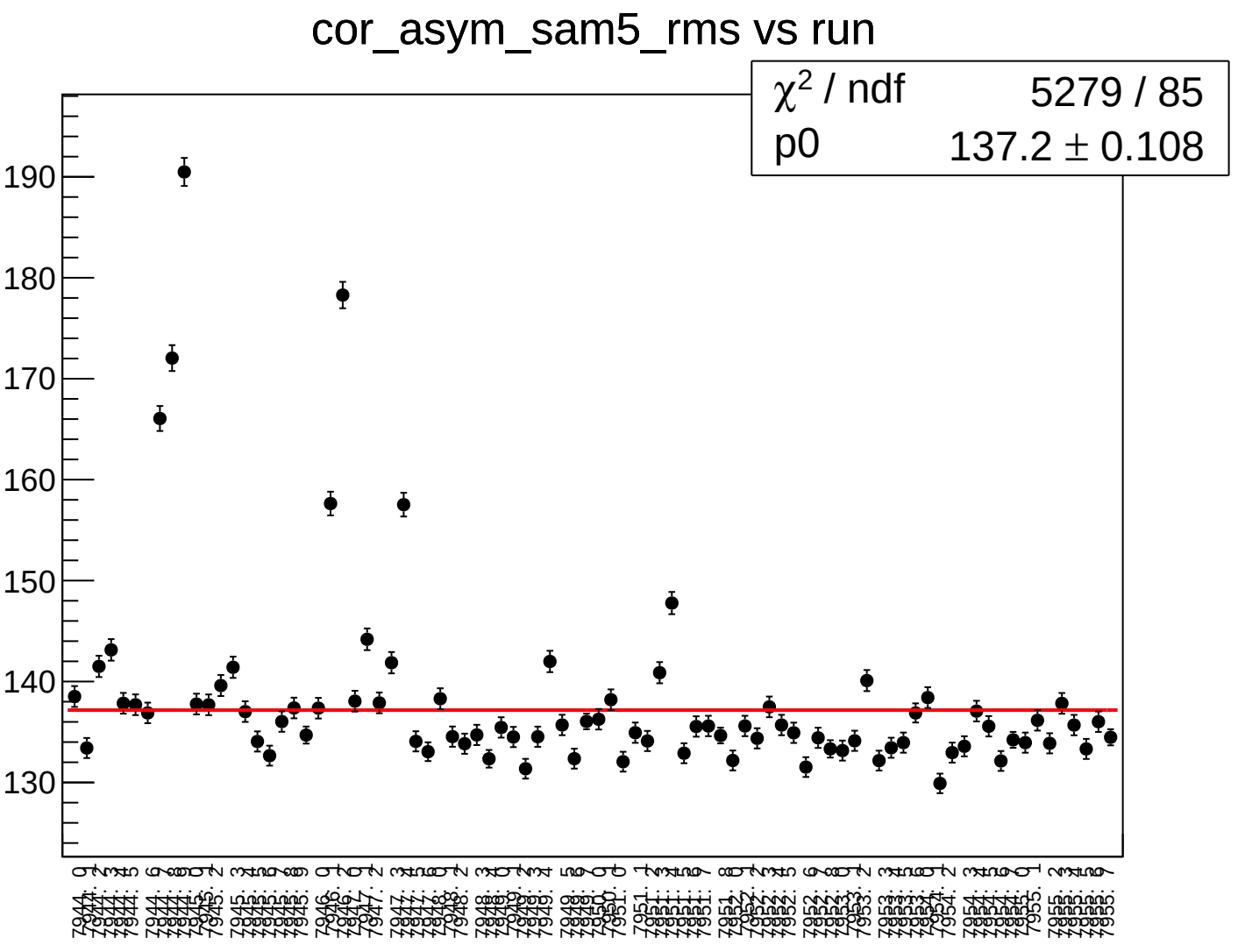

asym_sam5_reg_correction_mean vs run
χ² / ndf 77.68 / 85
p0 −2039 ± 992.9
pull
Entries 86
Mean −89.66
Std Dev 0

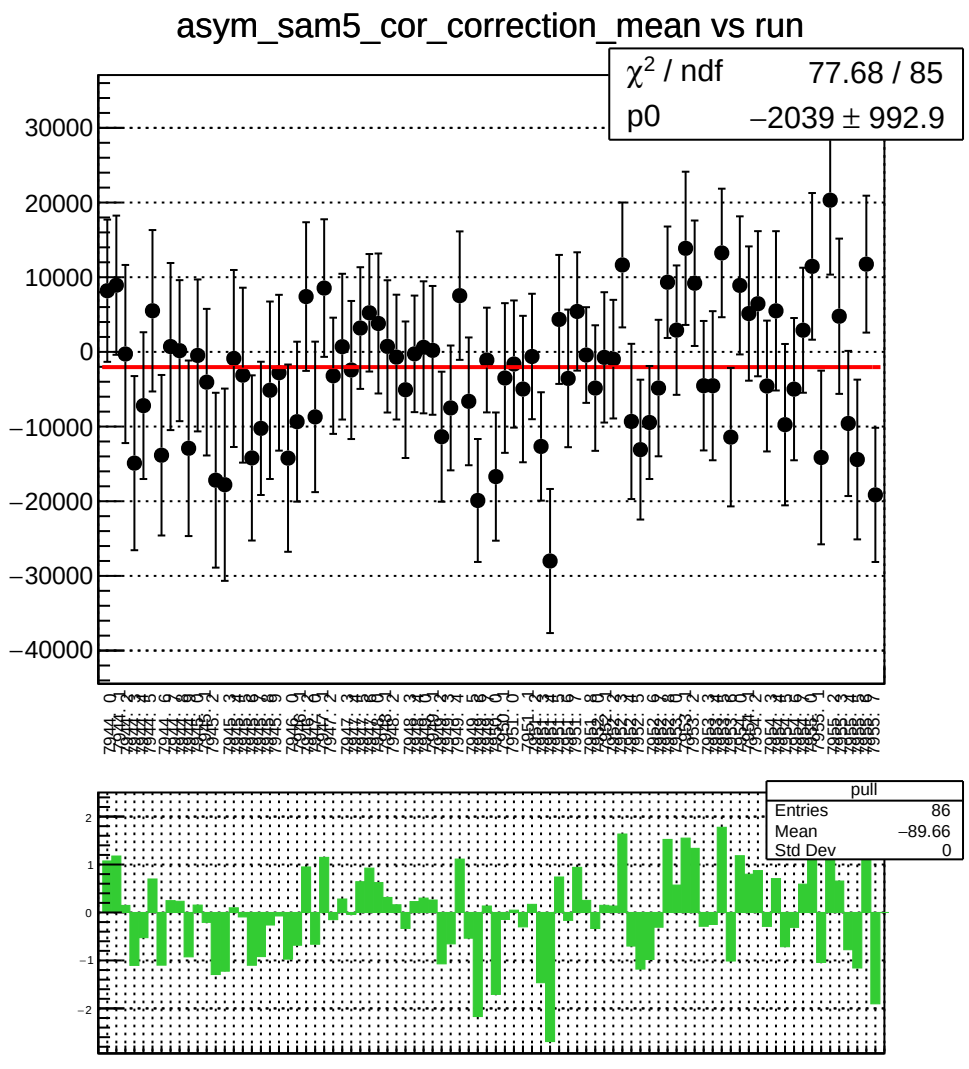

pull1D
Entries 86
Mean −0.02483
Std Dev 0.9501

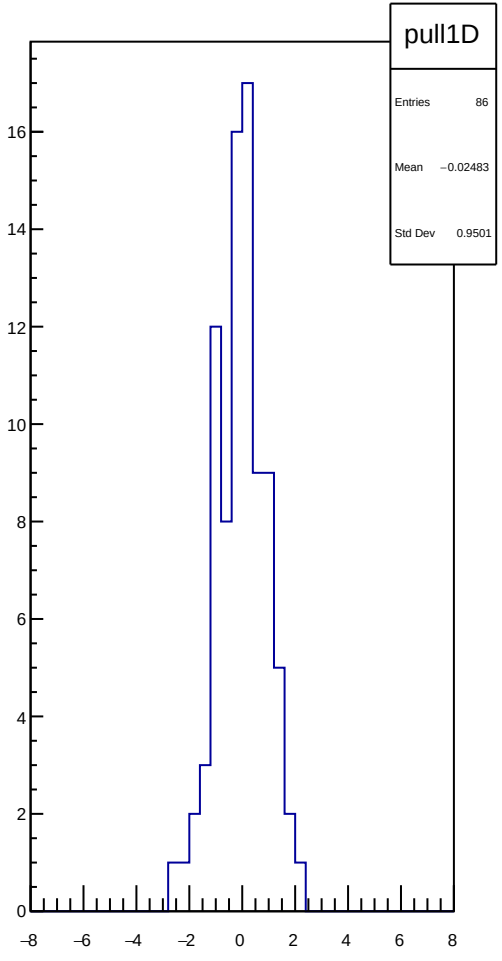

asym_sam5_reg_correction_rms vs run
χ² / ndf 2.497e+04 / 85
p0 886.5 ± 0.7021
1200
1100
1000
900
800
700

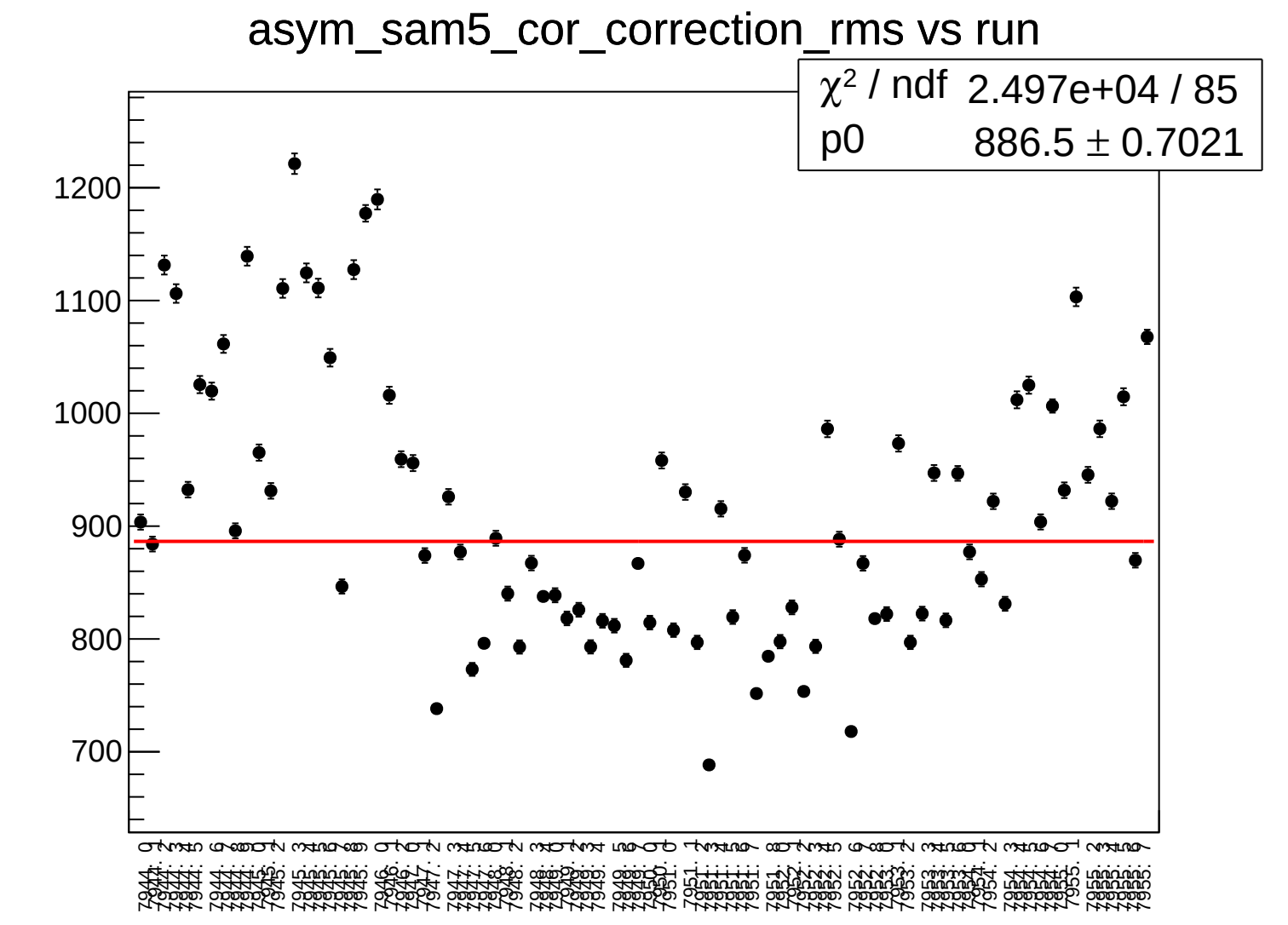

cor_asym_sam5_mean vs run
χ² / ndf 78.12 / 85
p0 238.7 ± 152.7
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 153
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

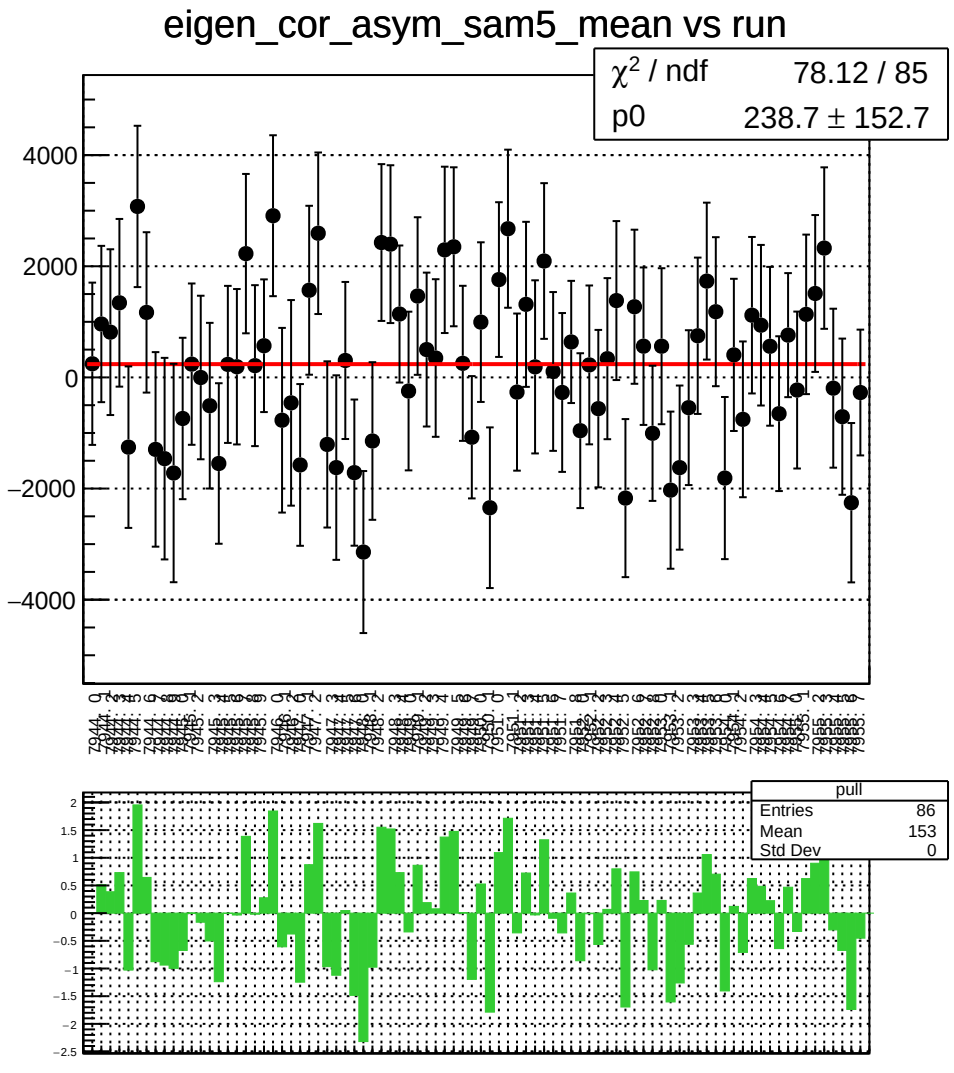

pull1D
Entries 86
Mean −0.007525
Std Dev 0.9531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

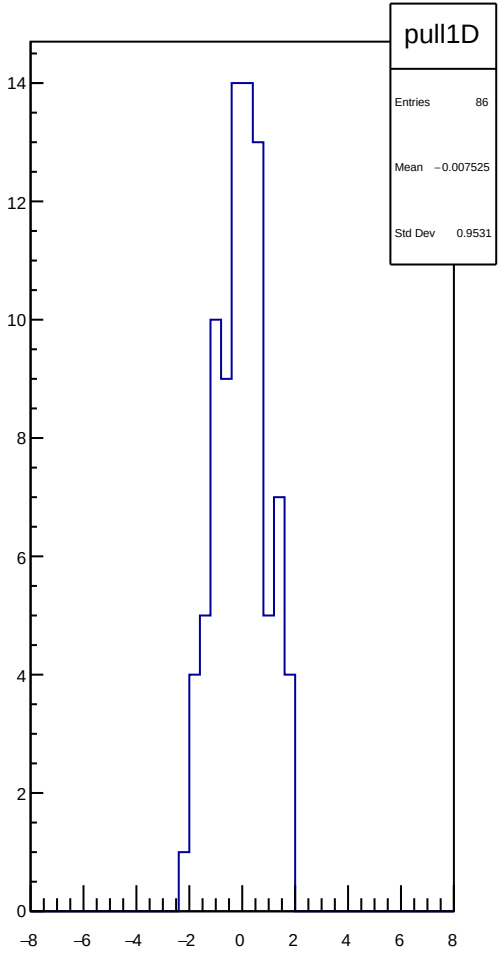

cor_asym_sam5_rms vs run
χ^2 / ndf 5279 / 85
p0 137.2 ± 0.108
190
180
170
160
150
140
130

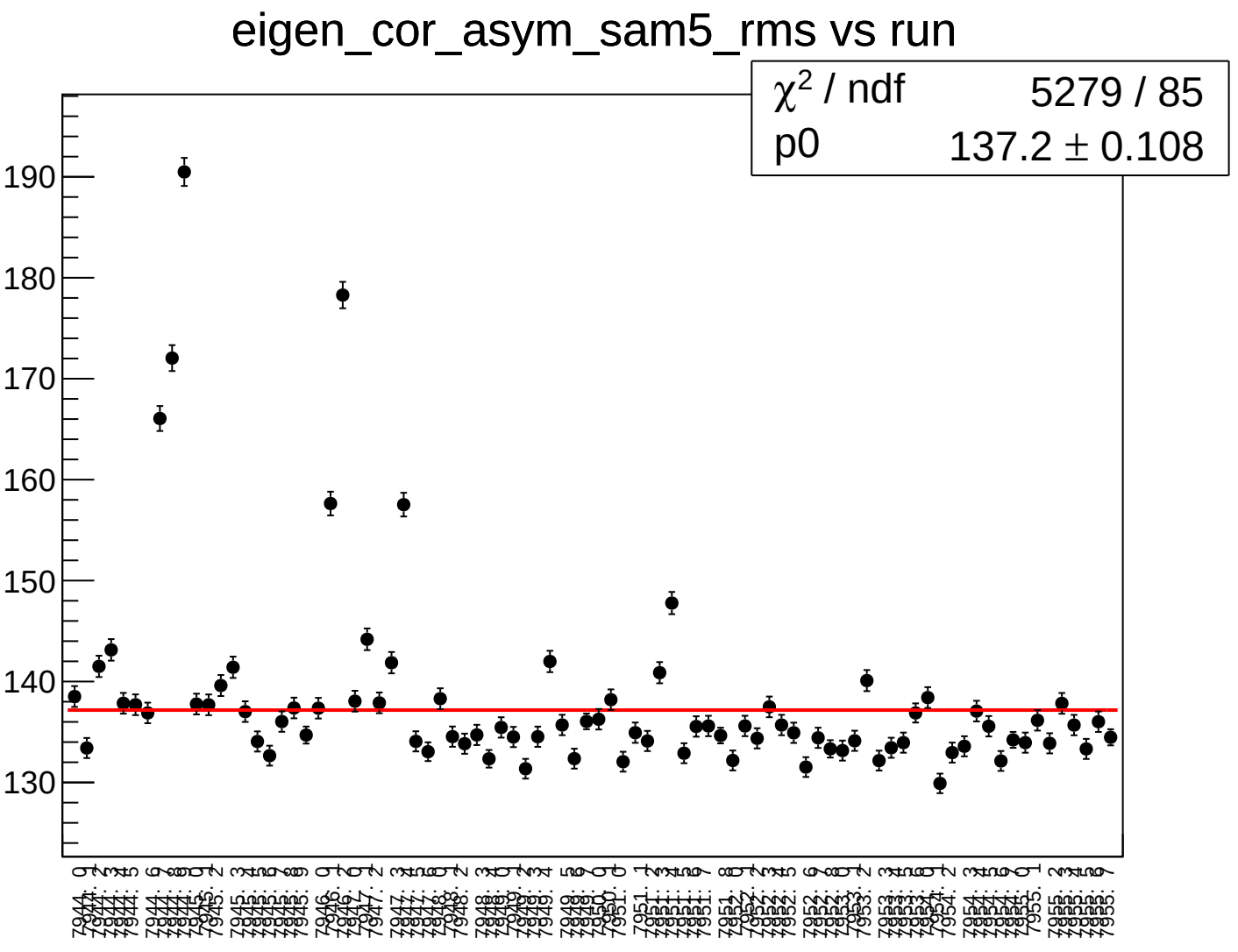

asym_sam5_cor_correction_mean vs run
χ² / ndf 77.68 / 85
p0 −2039 ± 992.9
pull
Entries 86
Mean −89.66
Std Dev 0

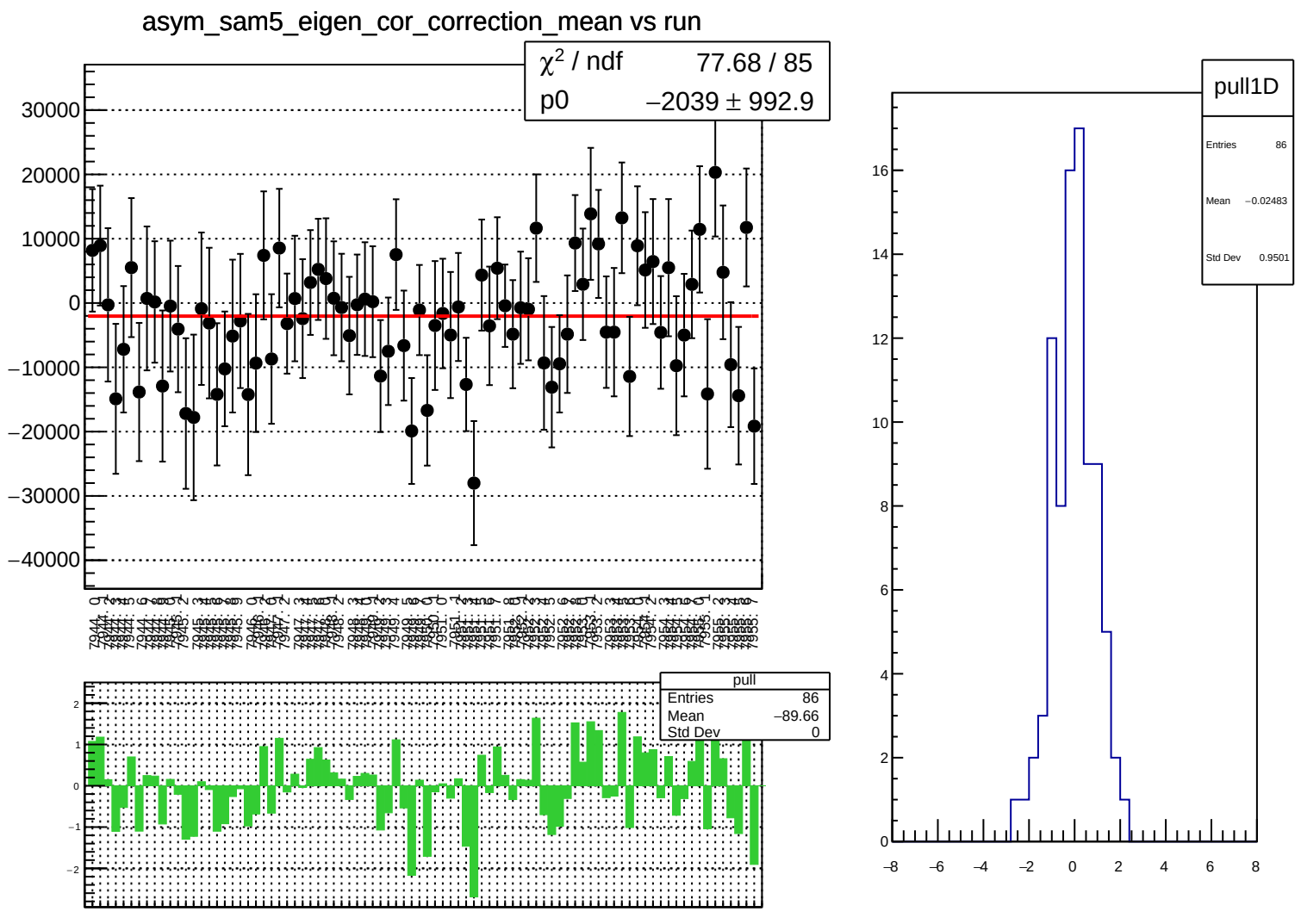

pull1D
Entries 86
Mean −0.02483
Std Dev 0.9501

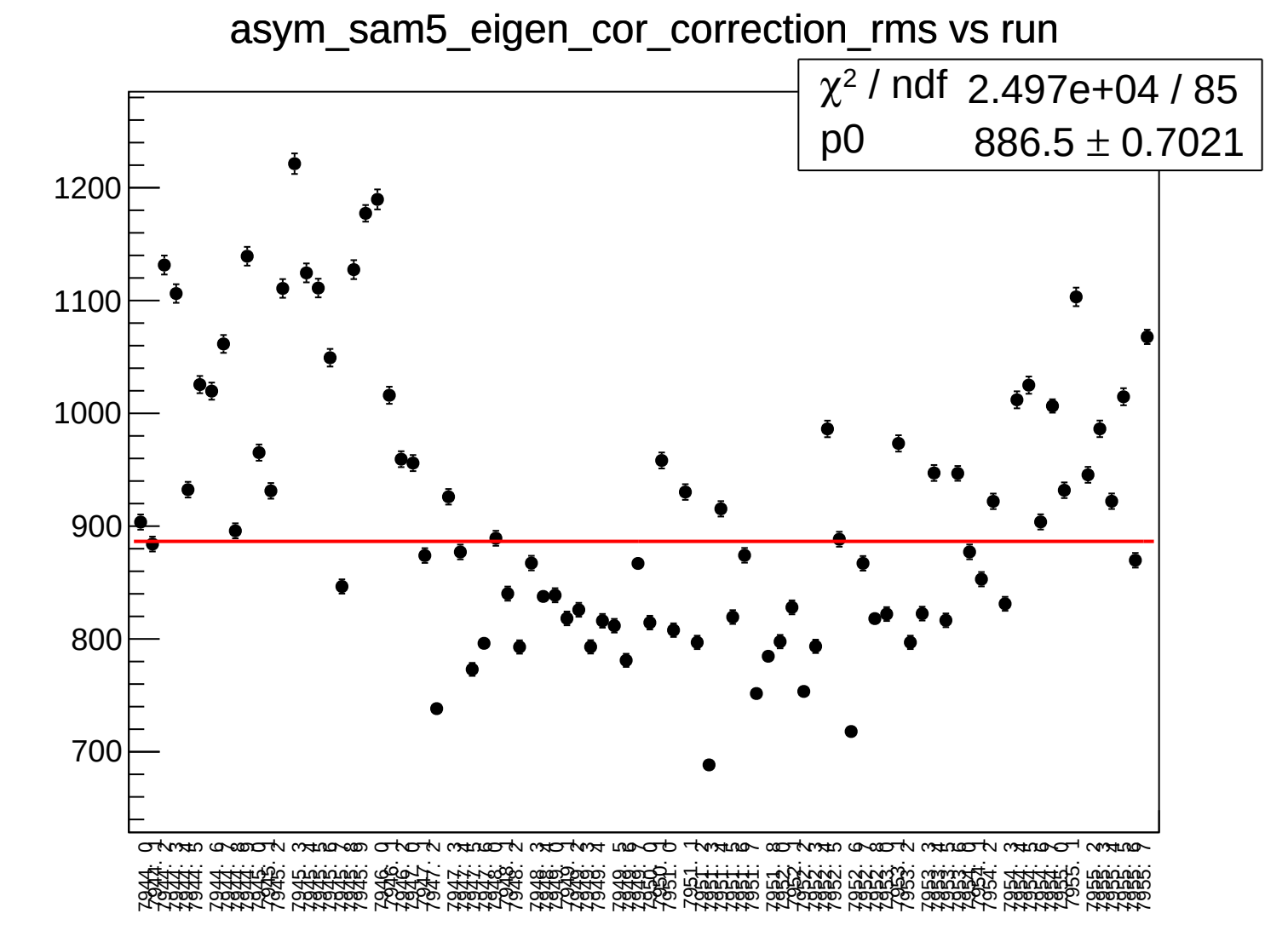

asym_sam5_cor_correction_rms vs run
χ² / ndf 2.497e+04 / 85
p0 886.5 ± 0.7021
1200
1100
1000
900
800
700

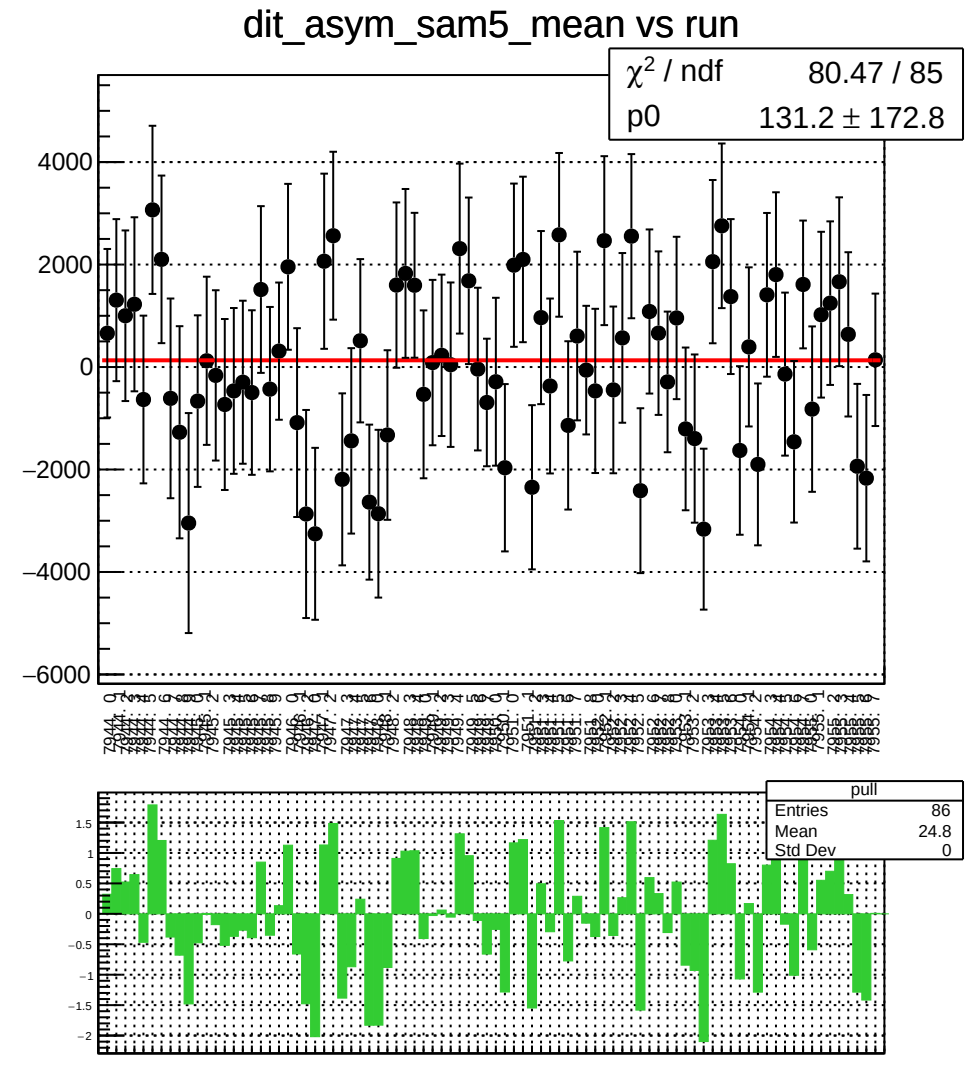

eigen_cor_asym_sam5_mean vs run
χ² / ndf 78.12 / 85
p0 238.7 ± 152.7
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 153
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

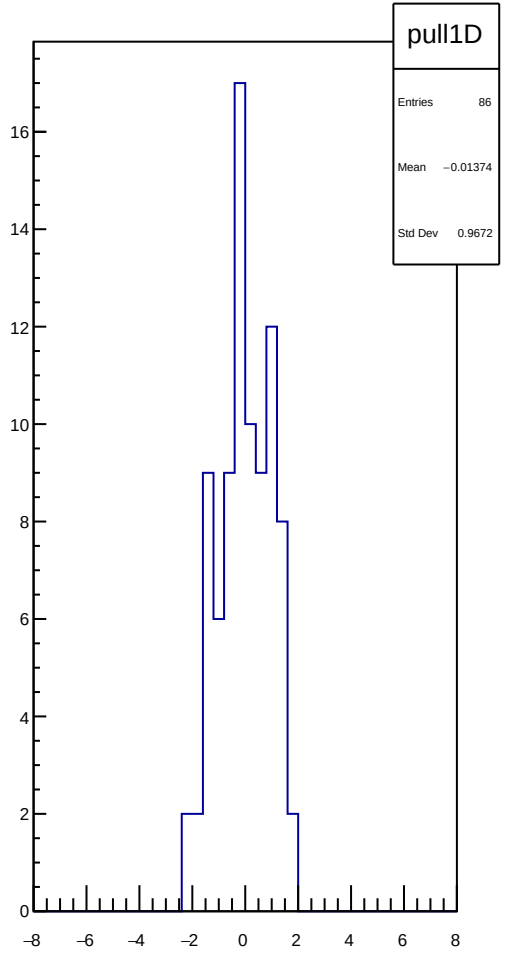

pull1D
Entries 86
Mean −0.007525
Std Dev 0.9531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

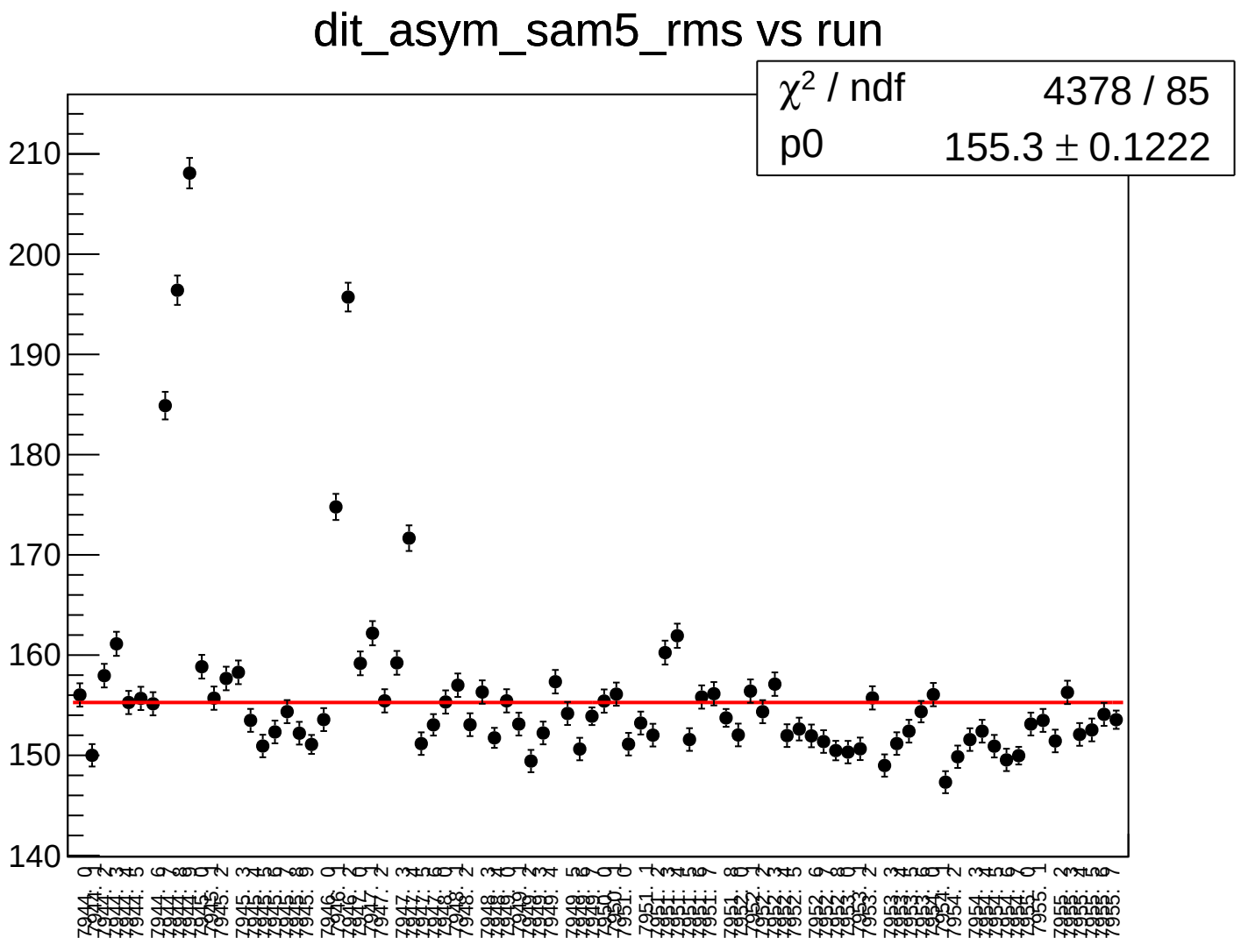

eigen_cor_asym_sam5_rms vs run
χ^2 / ndf 5279 / 85
p0 137.2 ± 0.108
190
180
170
160
150
140
130

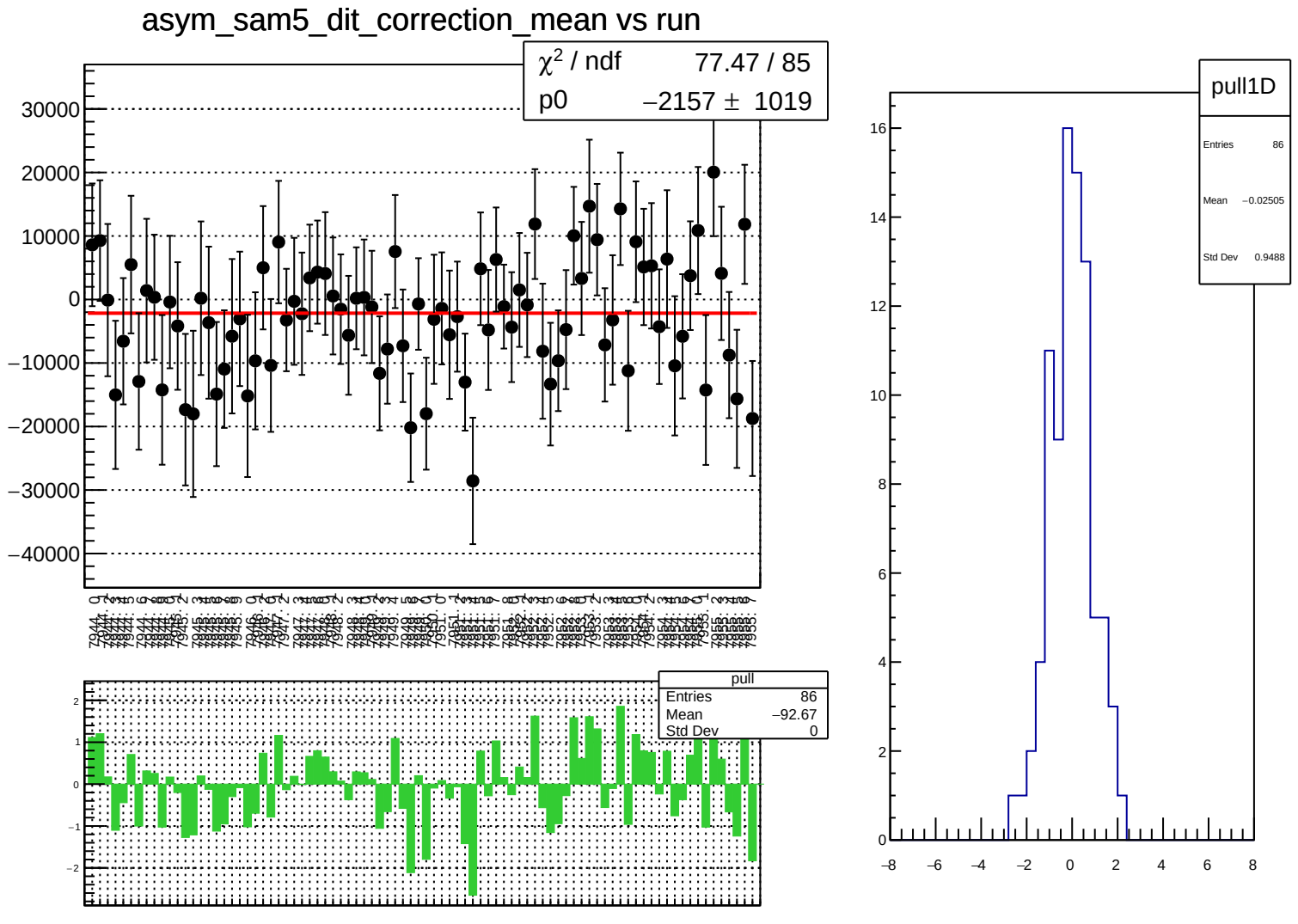

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 77.68 / 85
p0 −2039 ± 992.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −89.66
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.02483
Std Dev 0.9501
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

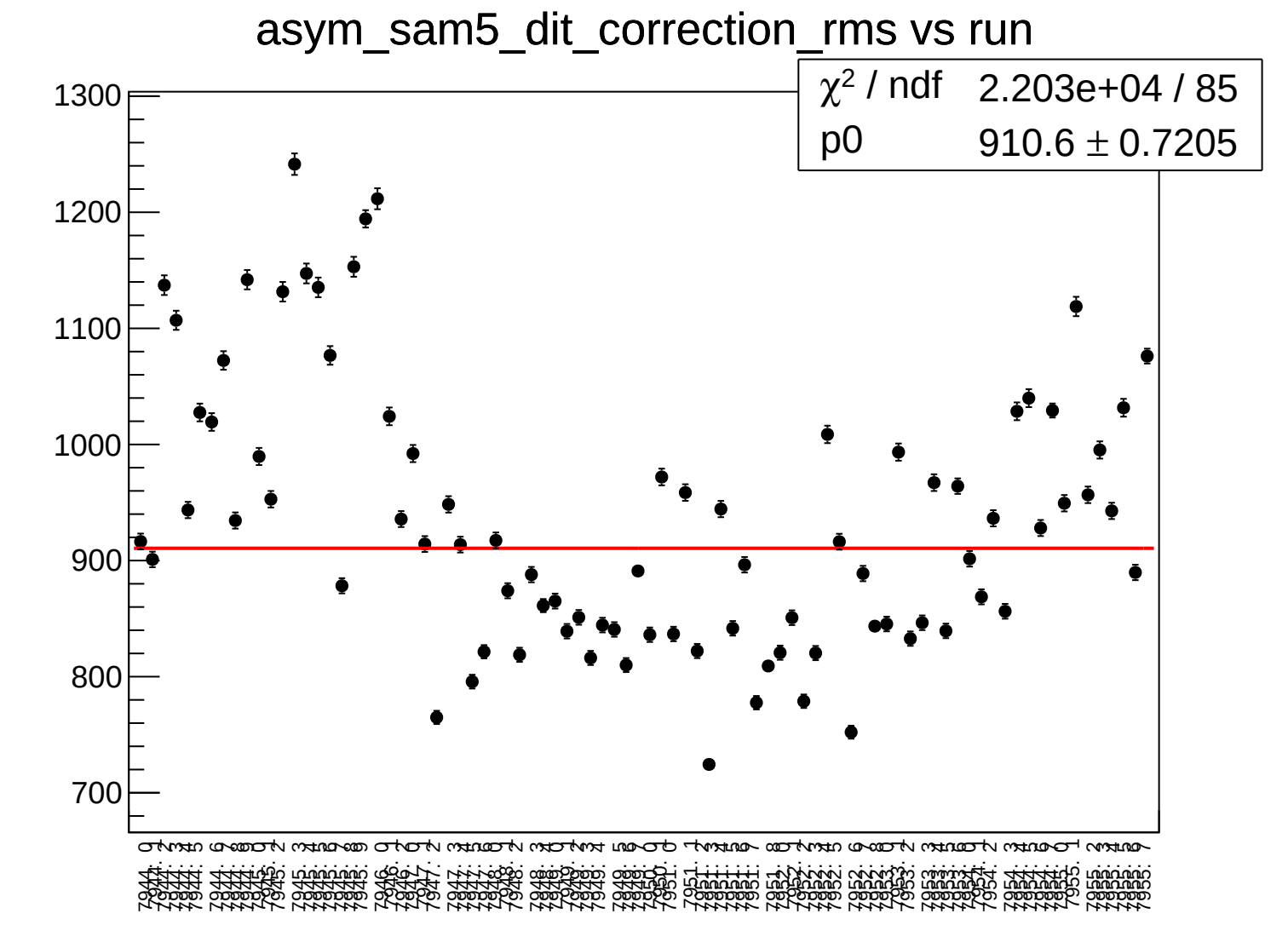

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 2.497e+04 / 85
p0 886.5 ± 0.7021
1200
1100
1000
900
800
700

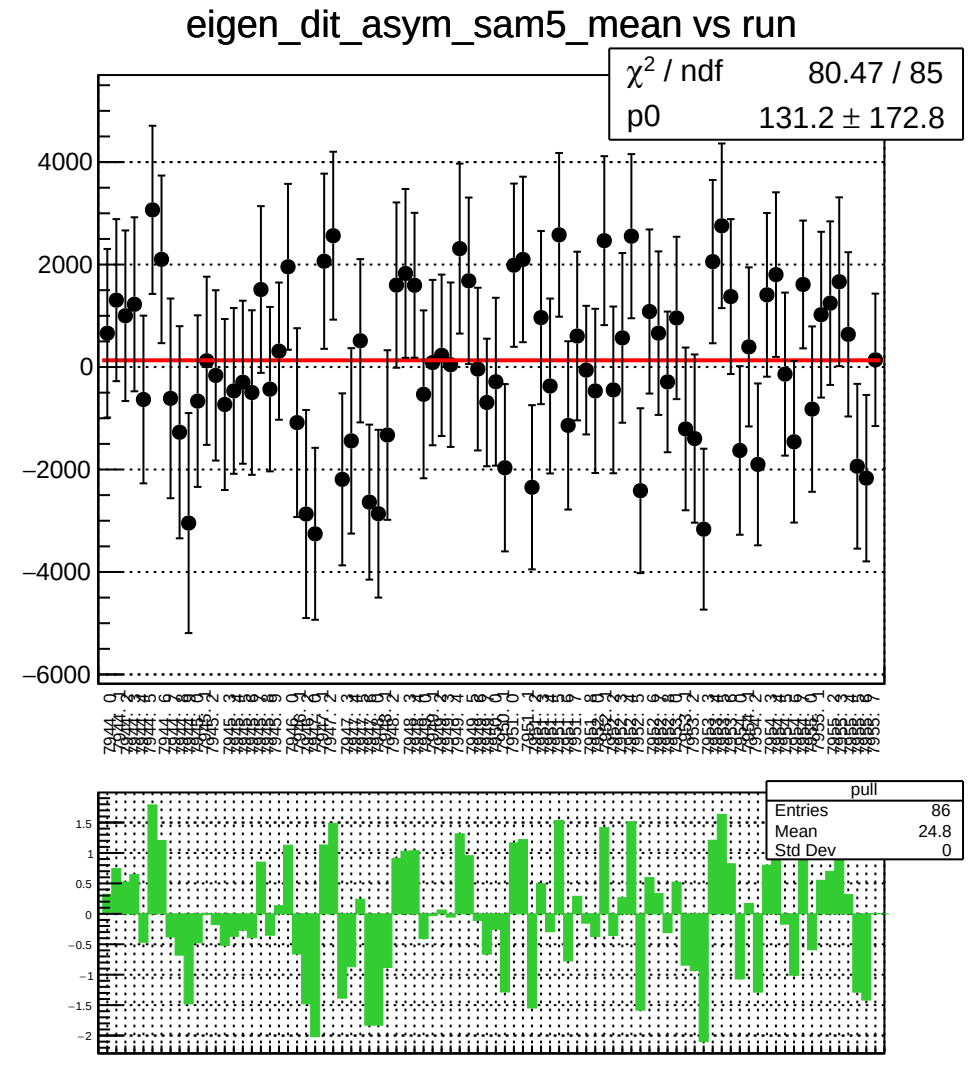

dit_asym_sam5_mean vs run
χ^2 / ndf 80.47 / 85
p0 131.2 ± 172.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 24.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

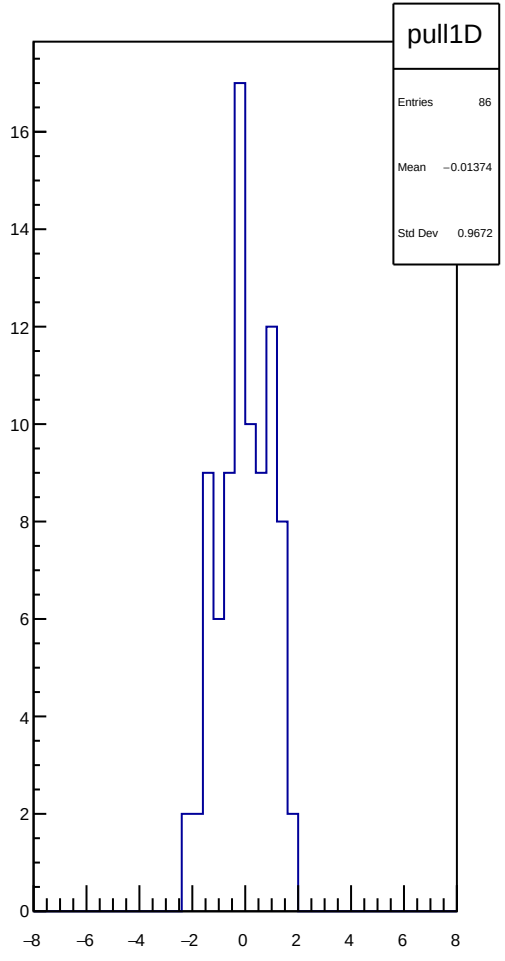

pull1D
Entries 86
Mean −0.01374
Std Dev 0.9672
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

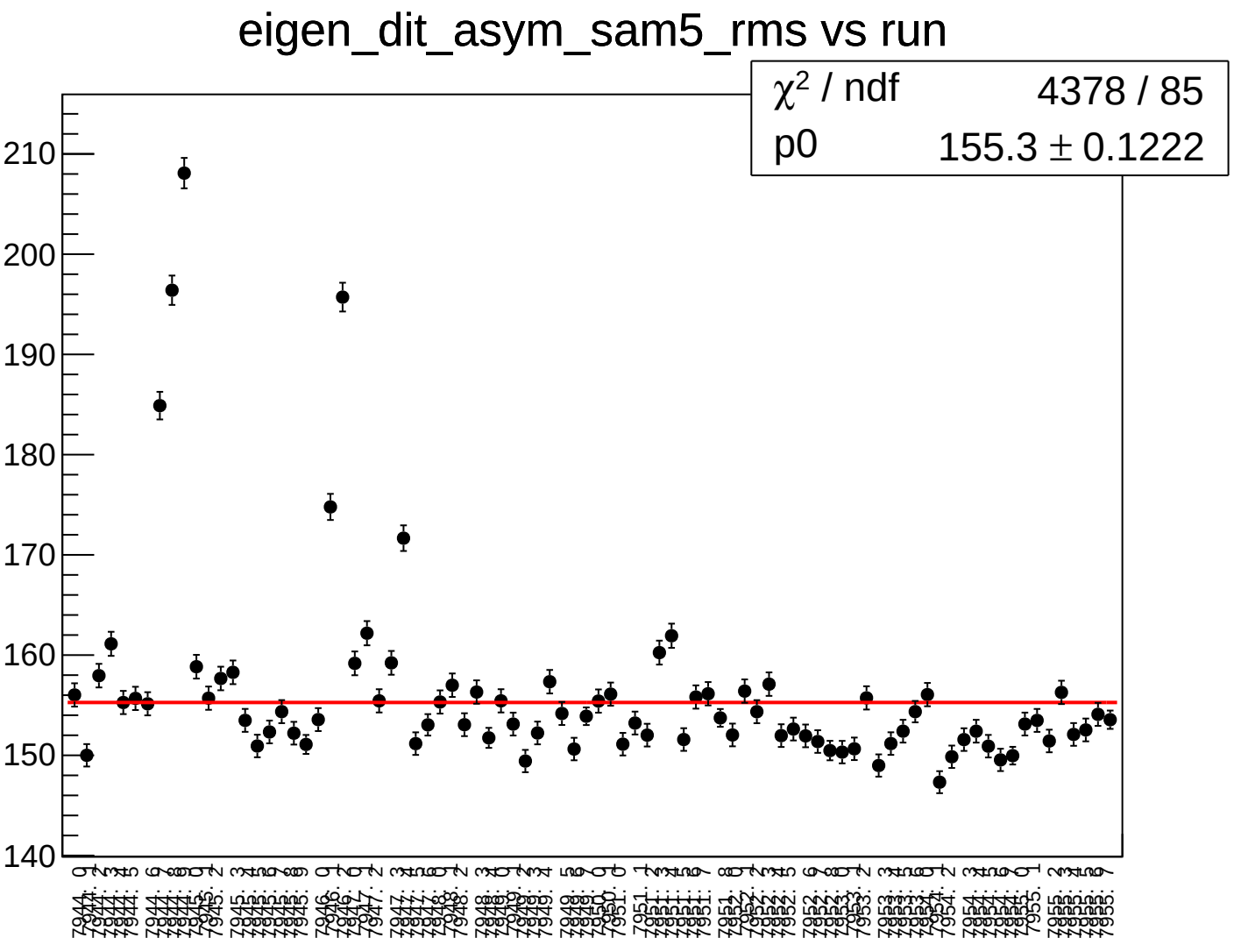

dit_asym_sam5_rms vs run
χ² / ndf 4378 / 85
p0 155.3 ± 0.1222
210
200
190
180
170
160
150
140

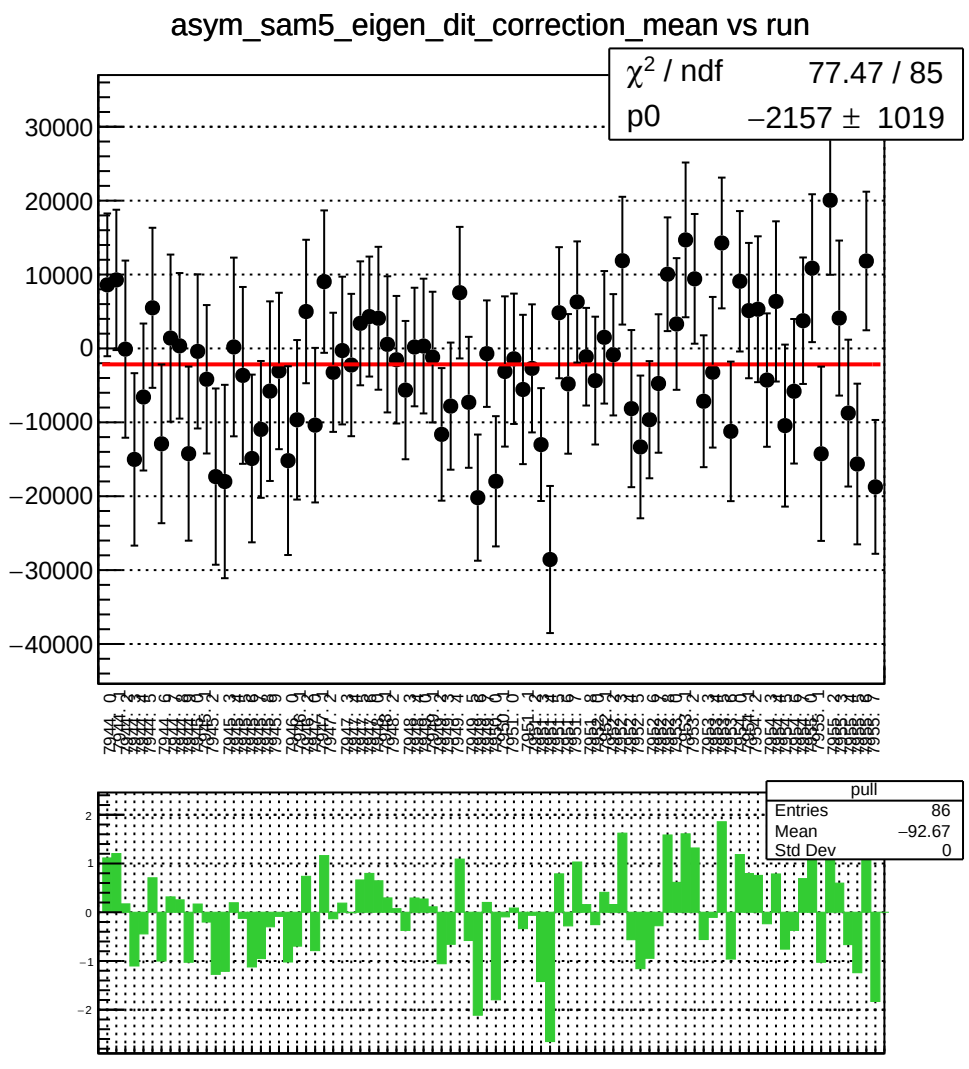

asym_sam5_dit_correction_mean vs run
χ² / ndf 77.47 / 85
p0 −2157 ± 1019
pull
Entries 86
Mean −92.67
Std Dev 0
pull1D
Entries 86
Mean −0.02505
Std Dev 0.9488

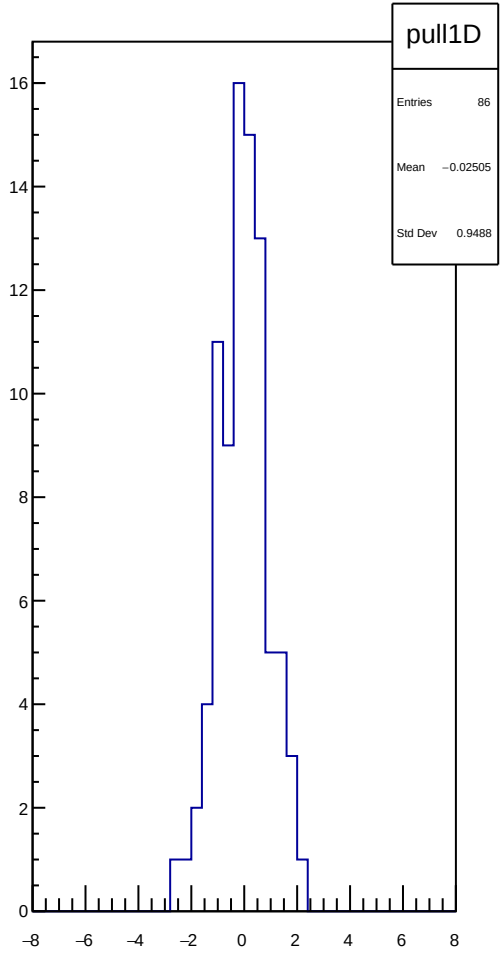

asym_sam5_dit_correction_rms vs run
χ² / ndf 2.203e+04 / 85
p0 910.6 ± 0.7205
1300
1200
1100
1000
900
800
700

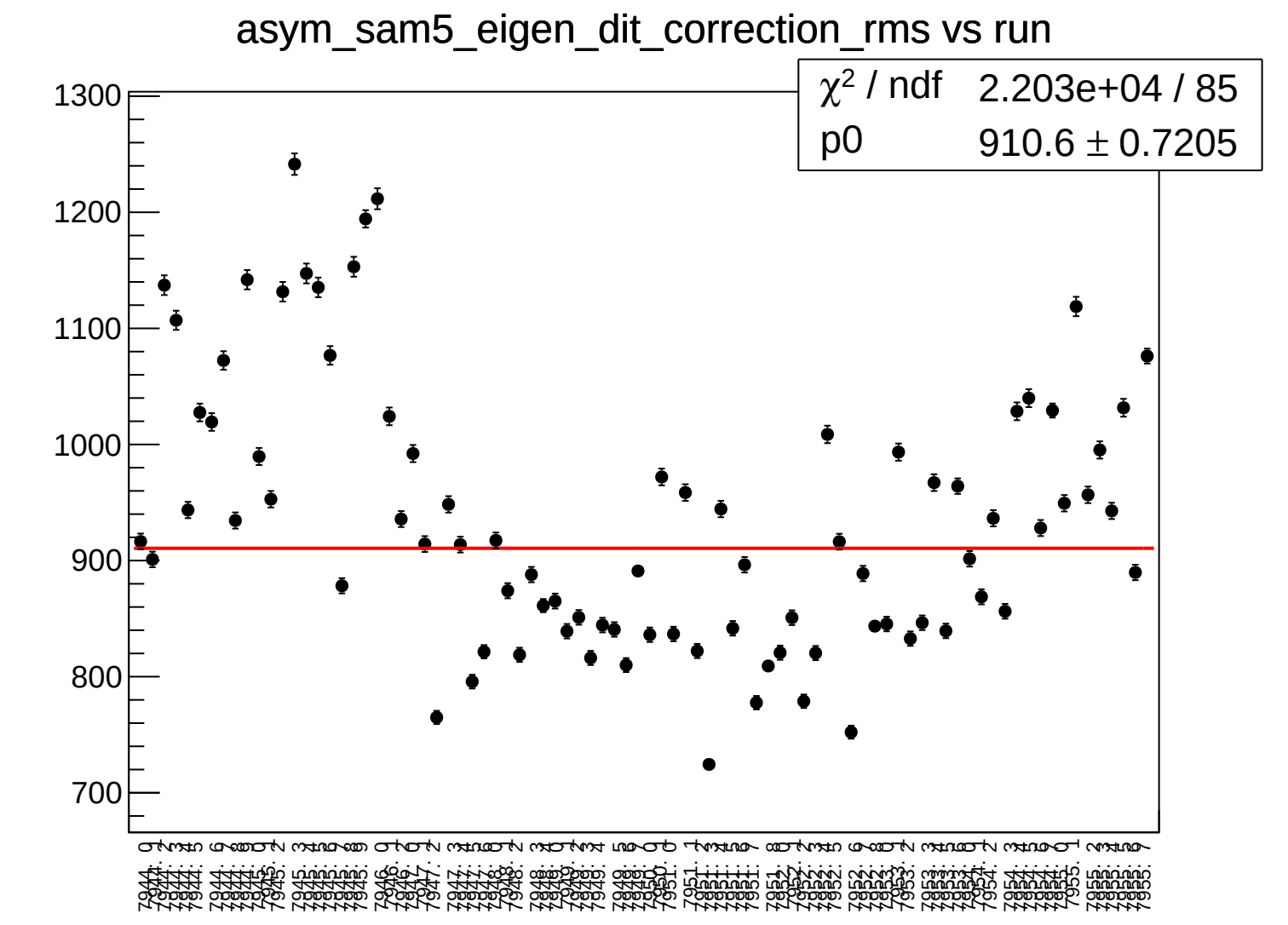

eigen_dit_asym_sam5_mean vs run
χ^2 / ndf 80.47 / 85
p0 131.2 ± 172.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 24.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

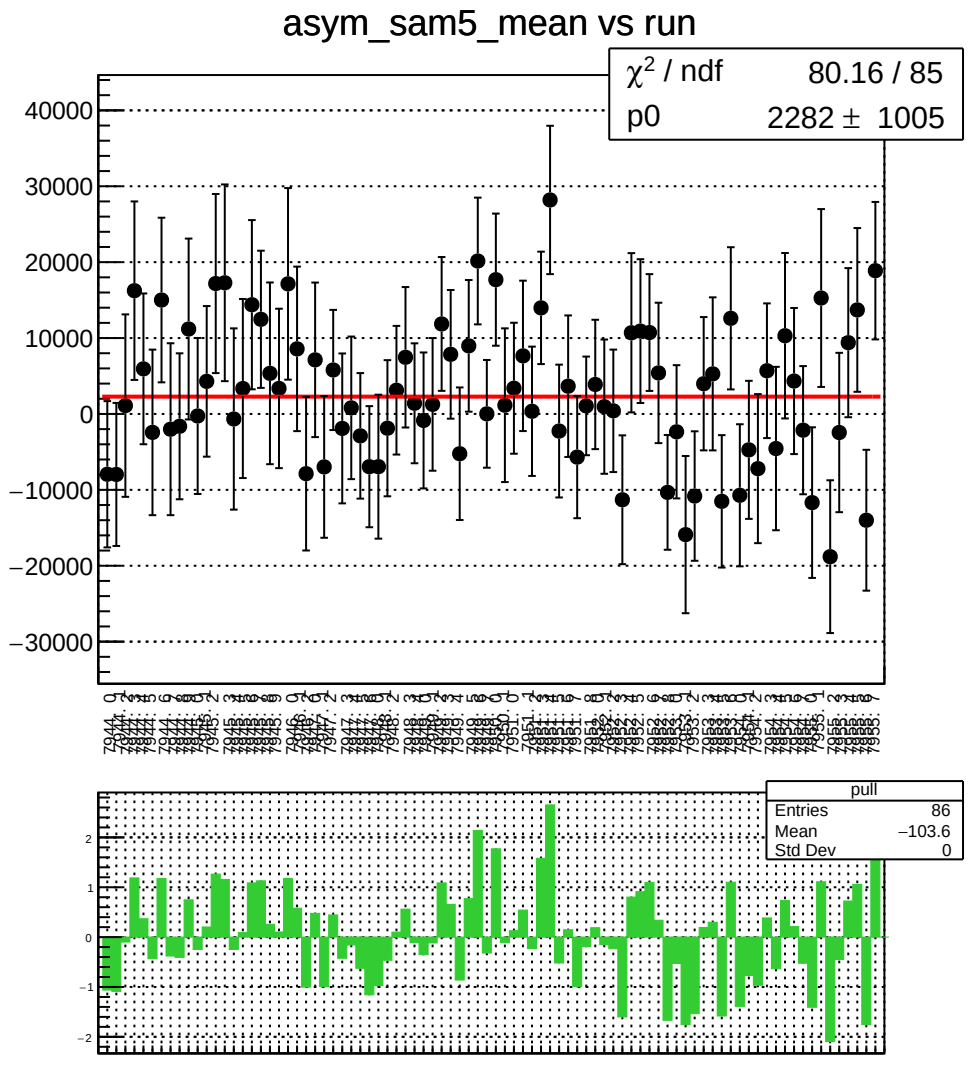

pull1D
Entries 86
Mean −0.01374
Std Dev 0.9672
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

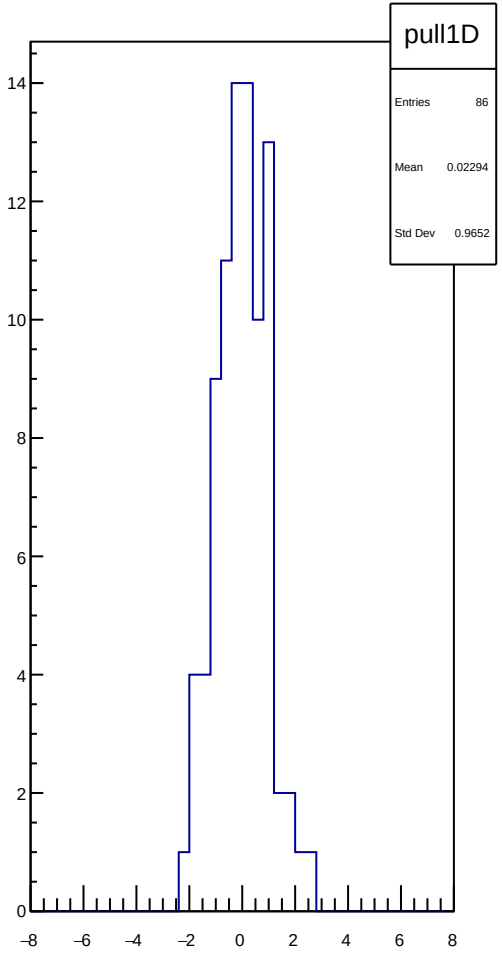

eigen_dit_asym_sam5_rms vs run
χ² / ndf 4378 / 85
p0 155.3 ± 0.1222
210
200
190
180
170
160
150
140

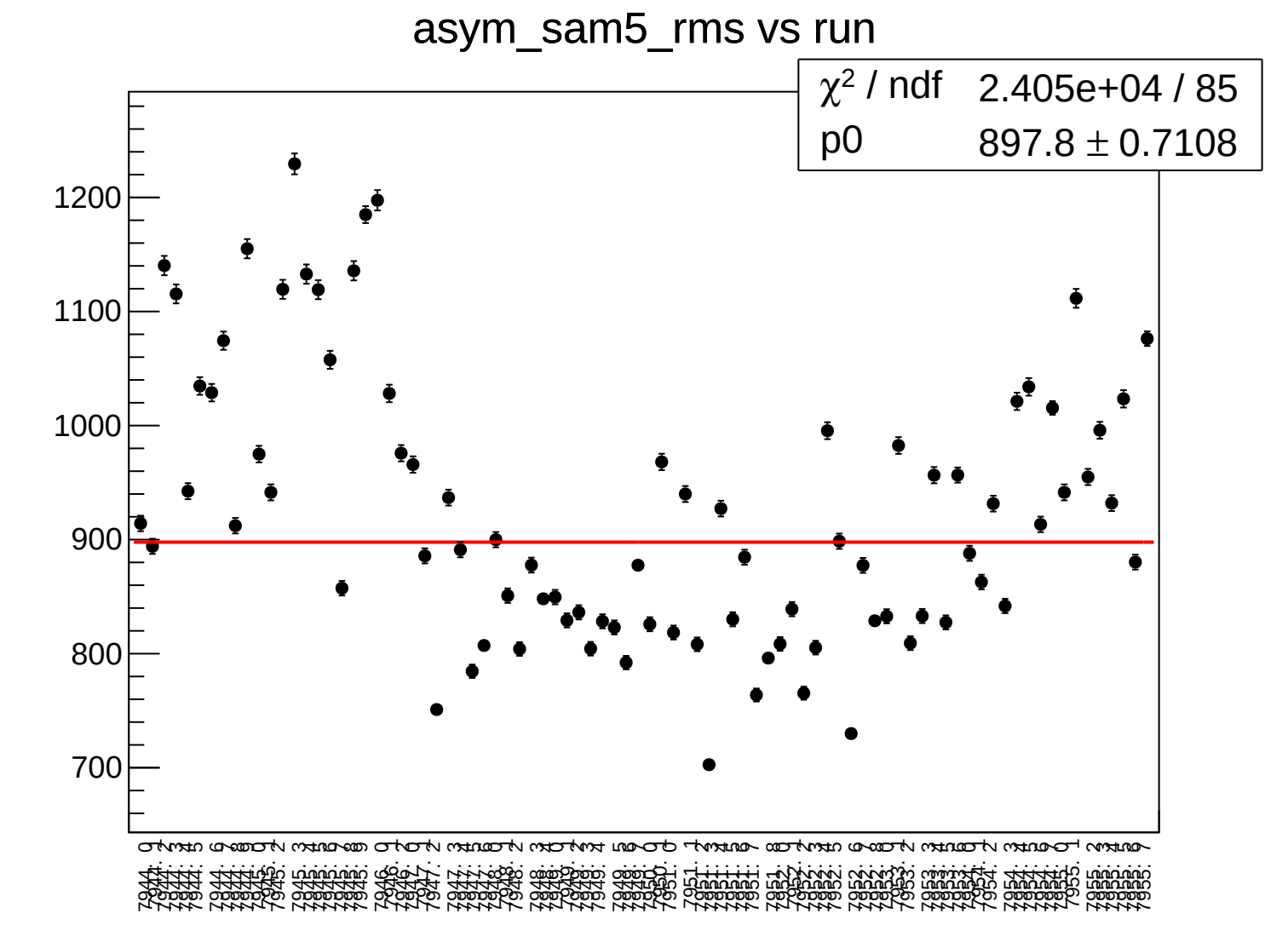

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 77.47 / 85
p0 −2157 ± 1019
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −92.67
Std Dev 0
2
1
0
−1
−2

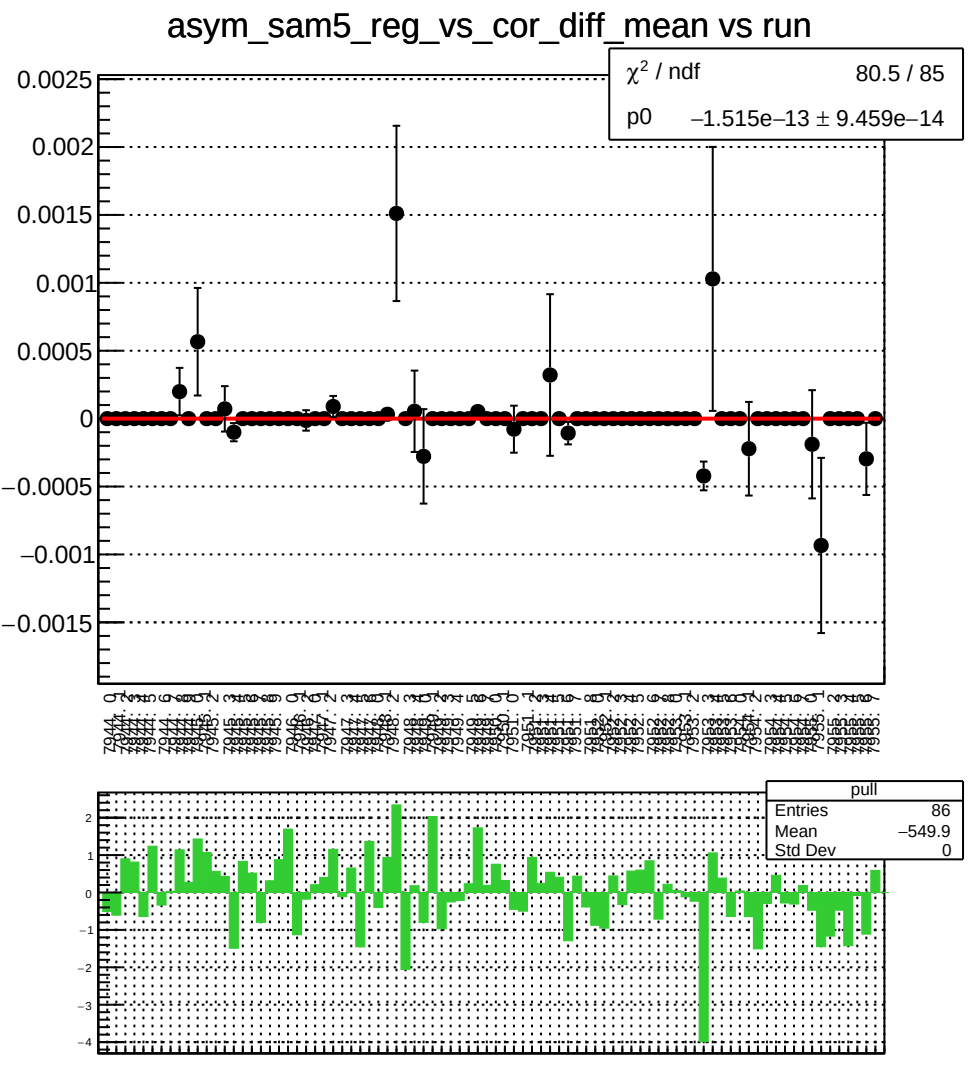

pull1D
Entries 86
Mean −0.02505
Std Dev 0.9488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

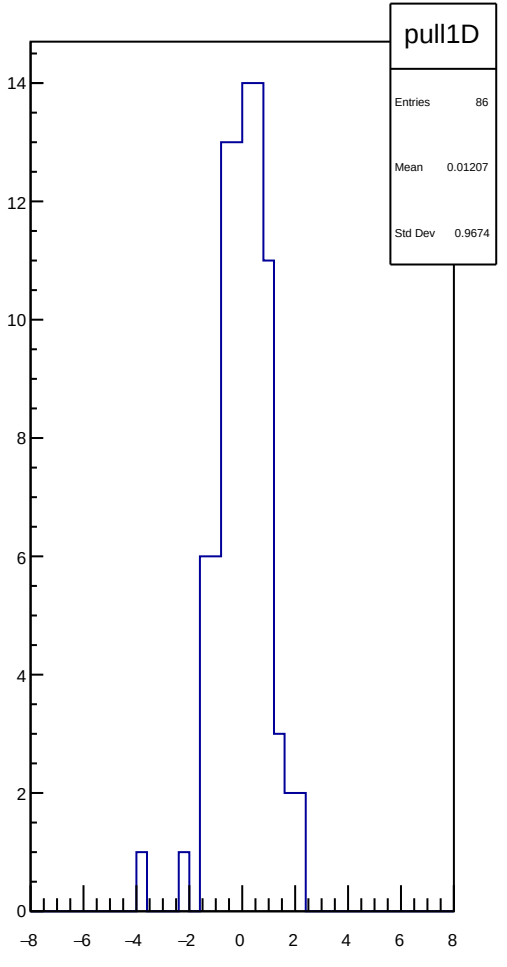

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2.203e+04 / 85
p0 910.6 ± 0.7205
1300
1200
1100
1000
900
800
700

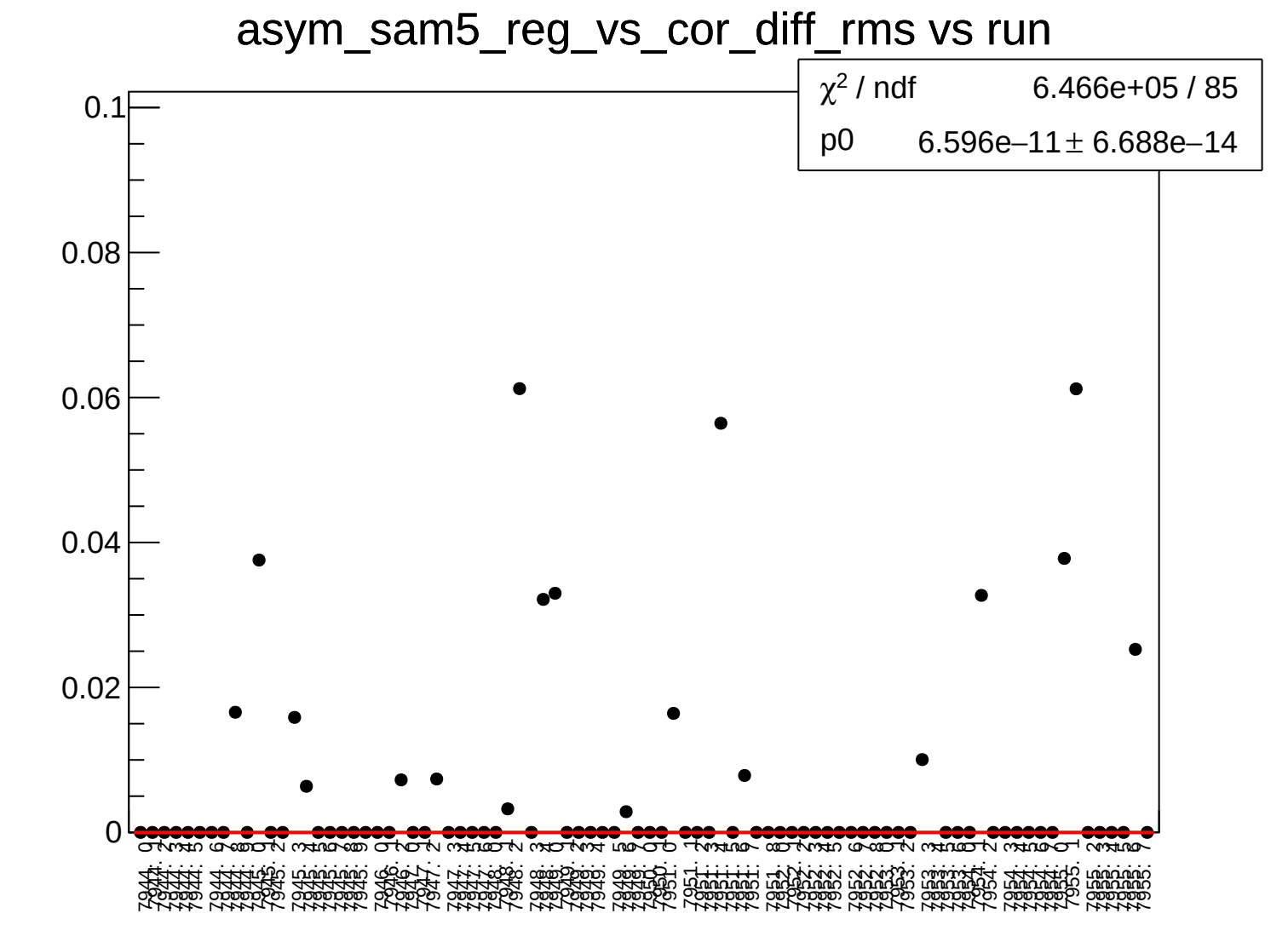

asym_sam5_mean vs run
χ² / ndf 80.16 / 85
p0 2282 ± 1005
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −103.6
Std Dev 0
2
1
0
−1
−2

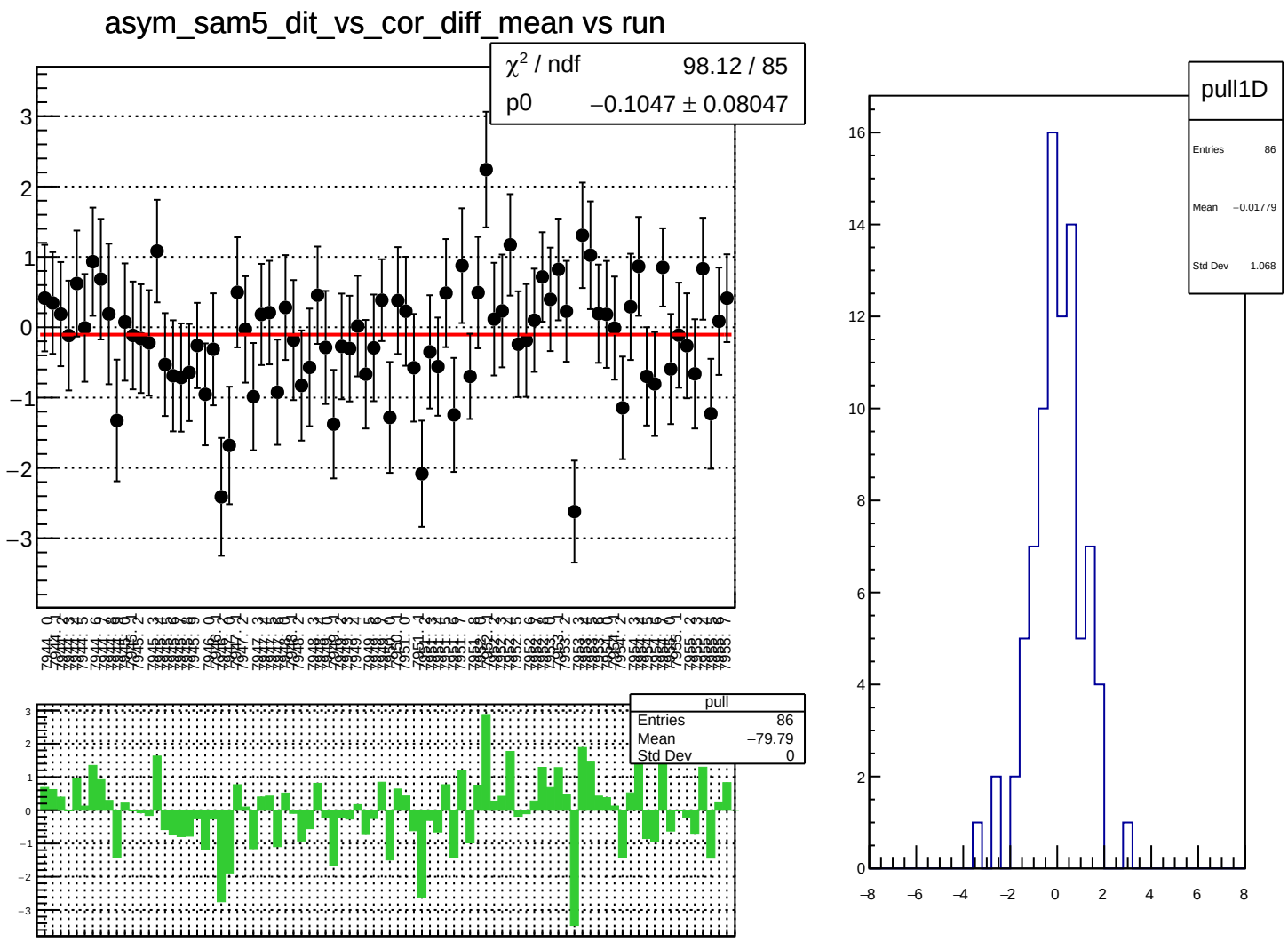

pull1D
Entries 86
Mean 0.02294
Std Dev 0.9652
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

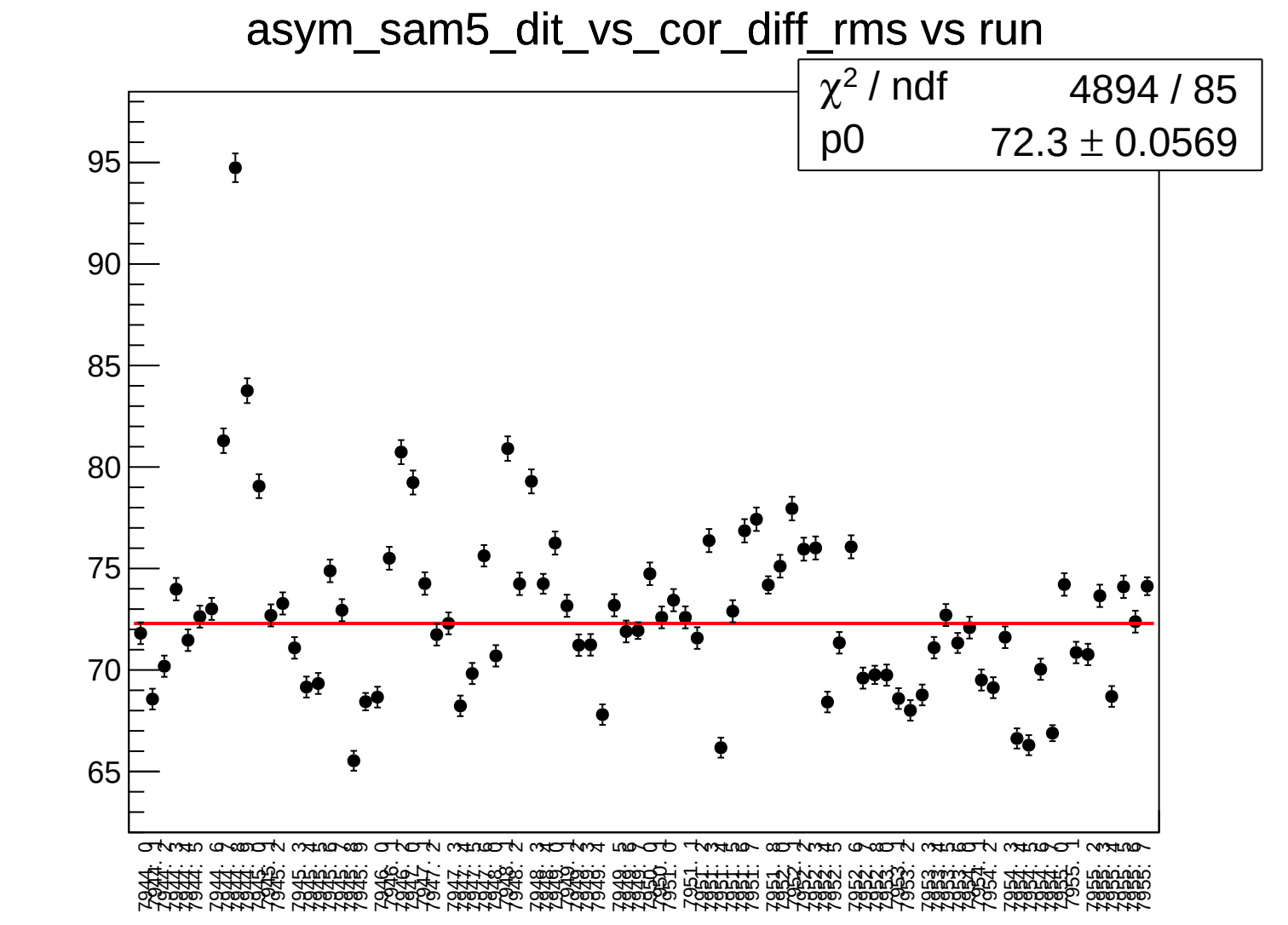

asym_sam5_rms vs run
χ² / ndf 2.405e+04 / 85
p0 897.8 ± 0.7108
1200
1100
1000
900
800
700

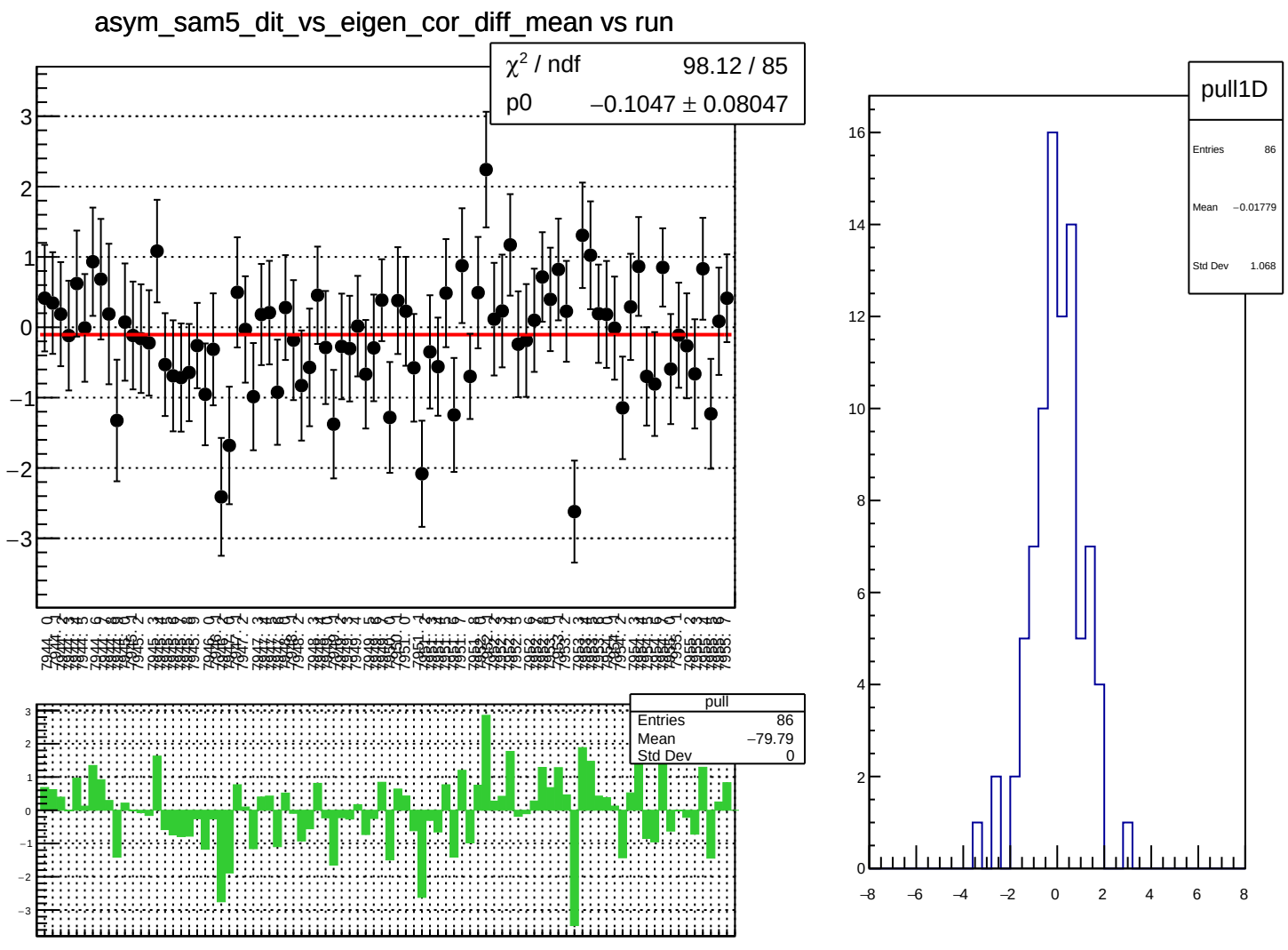

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 80.5 / 85
p0 −1.515e−13 ± 9.459e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean −549.9
Std Dev 0
2
1
0
−1
−2
−3
−4

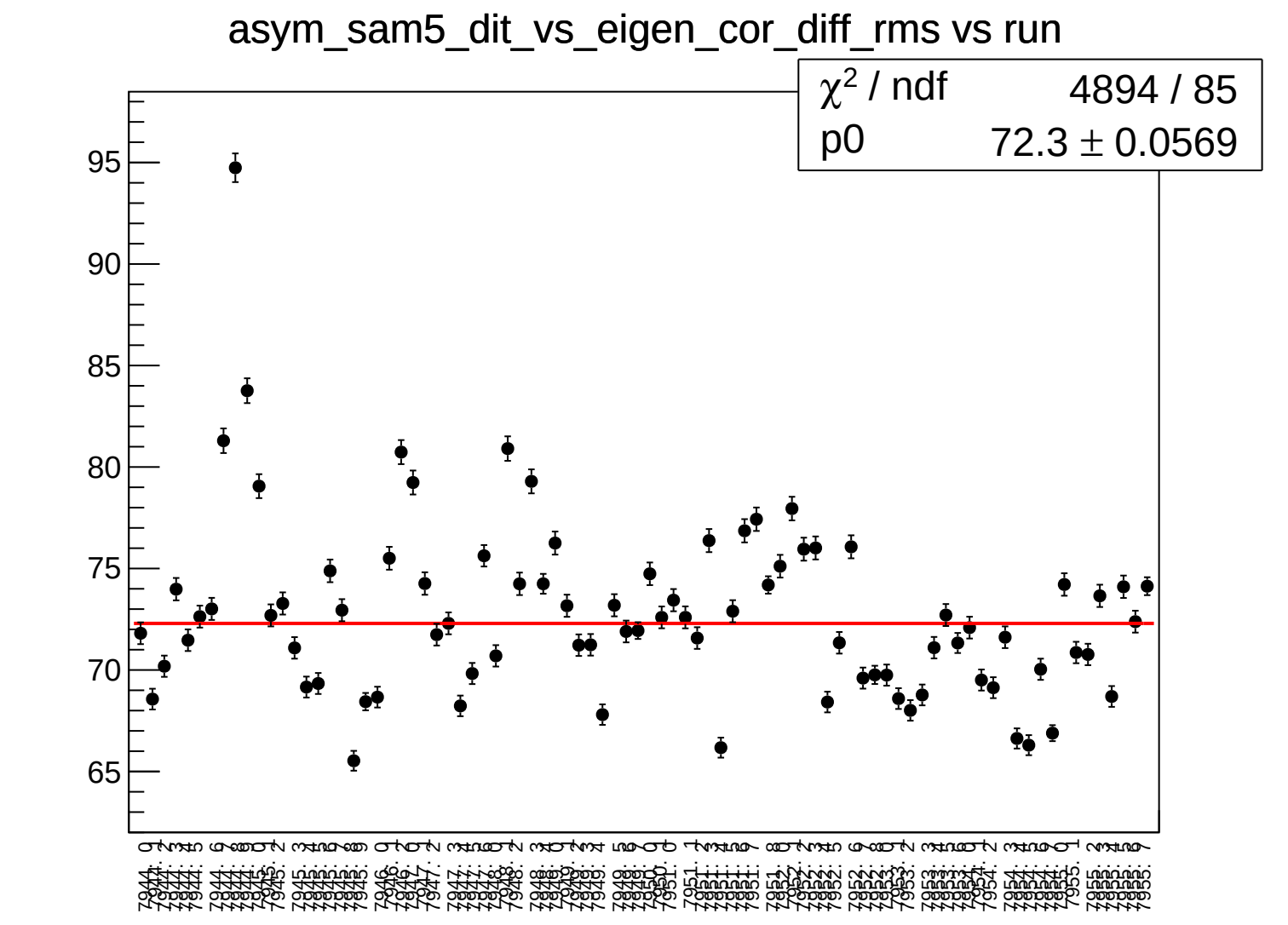

pull1D
Entries 86
Mean 0.01207
Std Dev 0.9674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

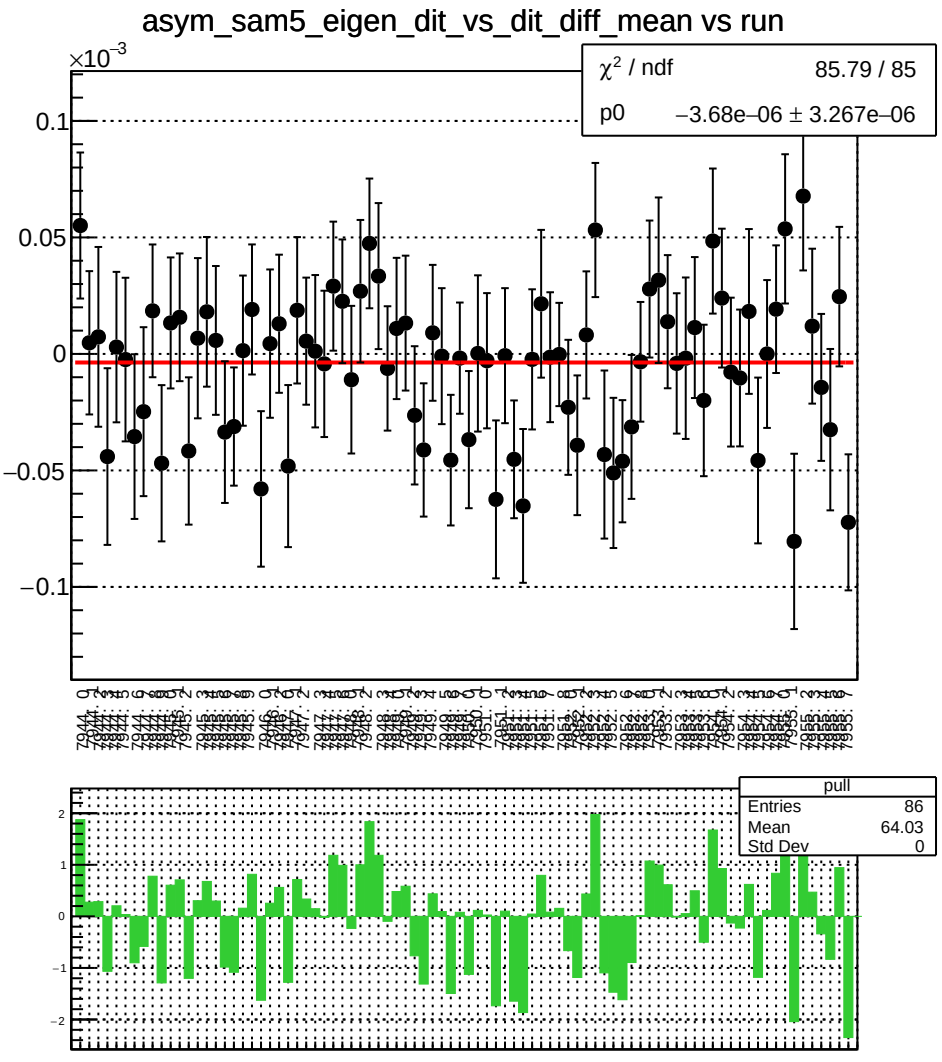

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 6.466e+05 / 85
p0 6.596e−11 ± 6.688e−14
0.1
0.08
0.06
0.04
0.02
0

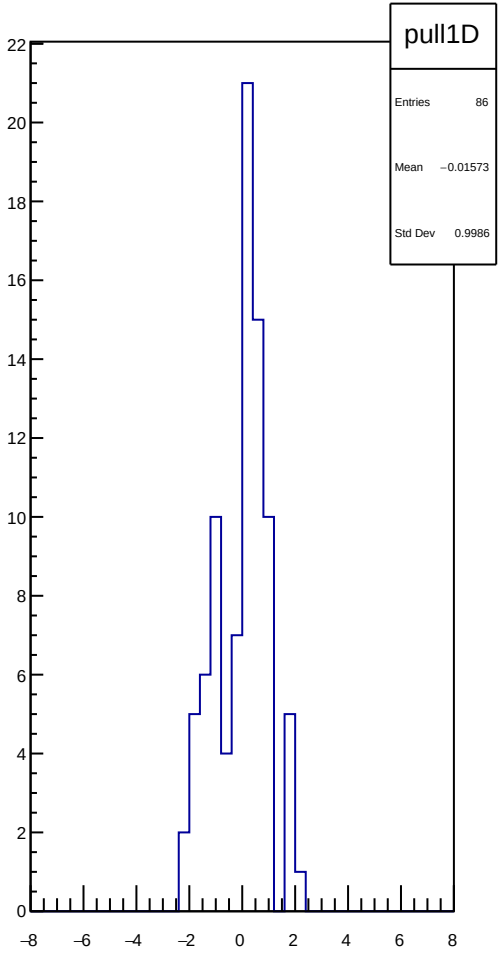

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 98.12 / 85
p0 −0.1047 ± 0.08047
pull
Entries 86
Mean −79.79
Std Dev 0
pull1D
Entries 86
Mean −0.01779
Std Dev 1.068

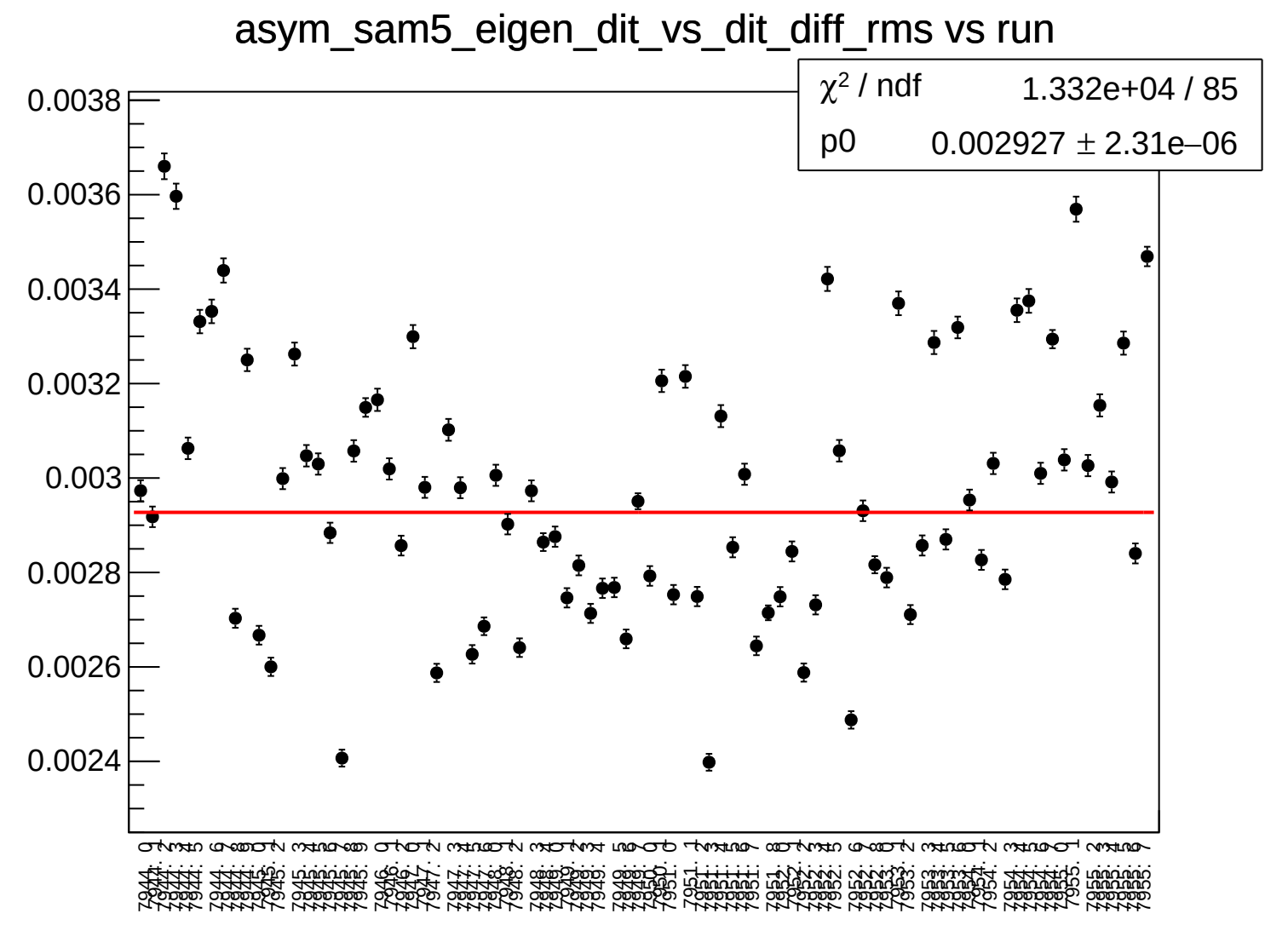

asym_sam5_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4894 / 85
p0 72.3 ± 0.0569
95
90
85
80
75
70
65

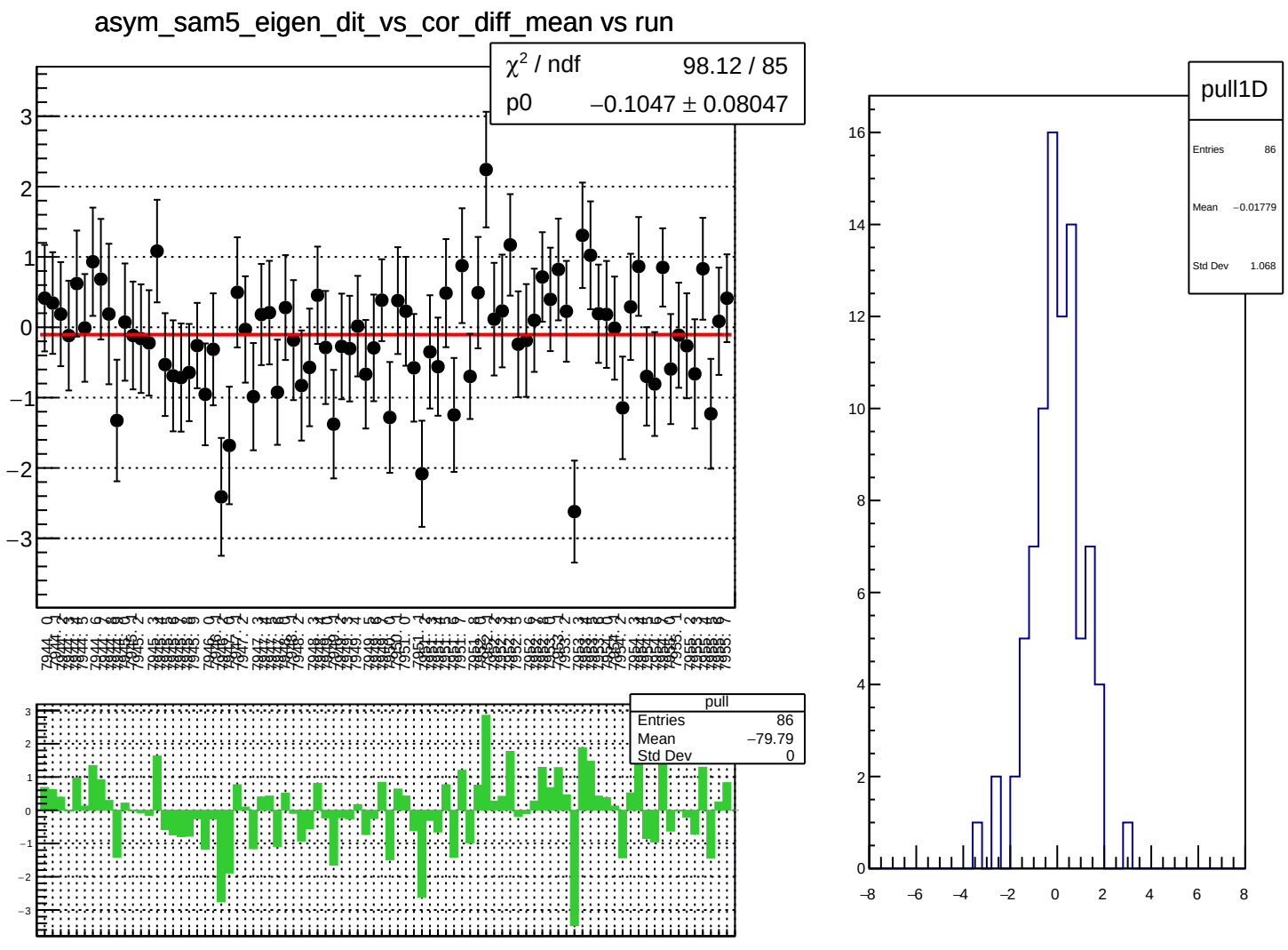

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.12 / 85
p0 −0.1047 ± 0.08047
pull
Entries 86
Mean −79.79
Std Dev 0
pull1D
Entries 86
Mean −0.01779
Std Dev 1.068

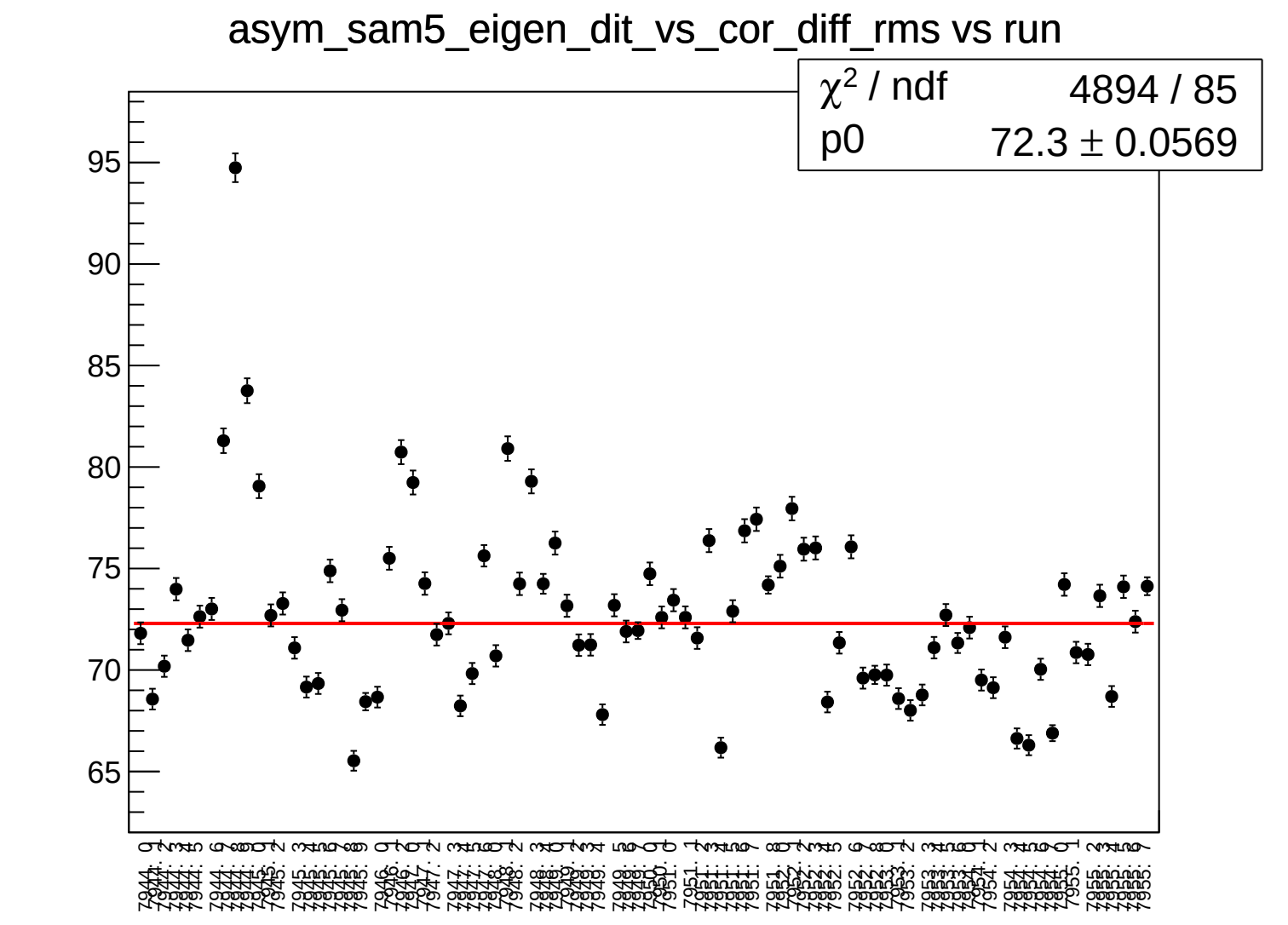

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4894 / 85
p0 72.3 ± 0.0569
95
90
85
80
75
70
65

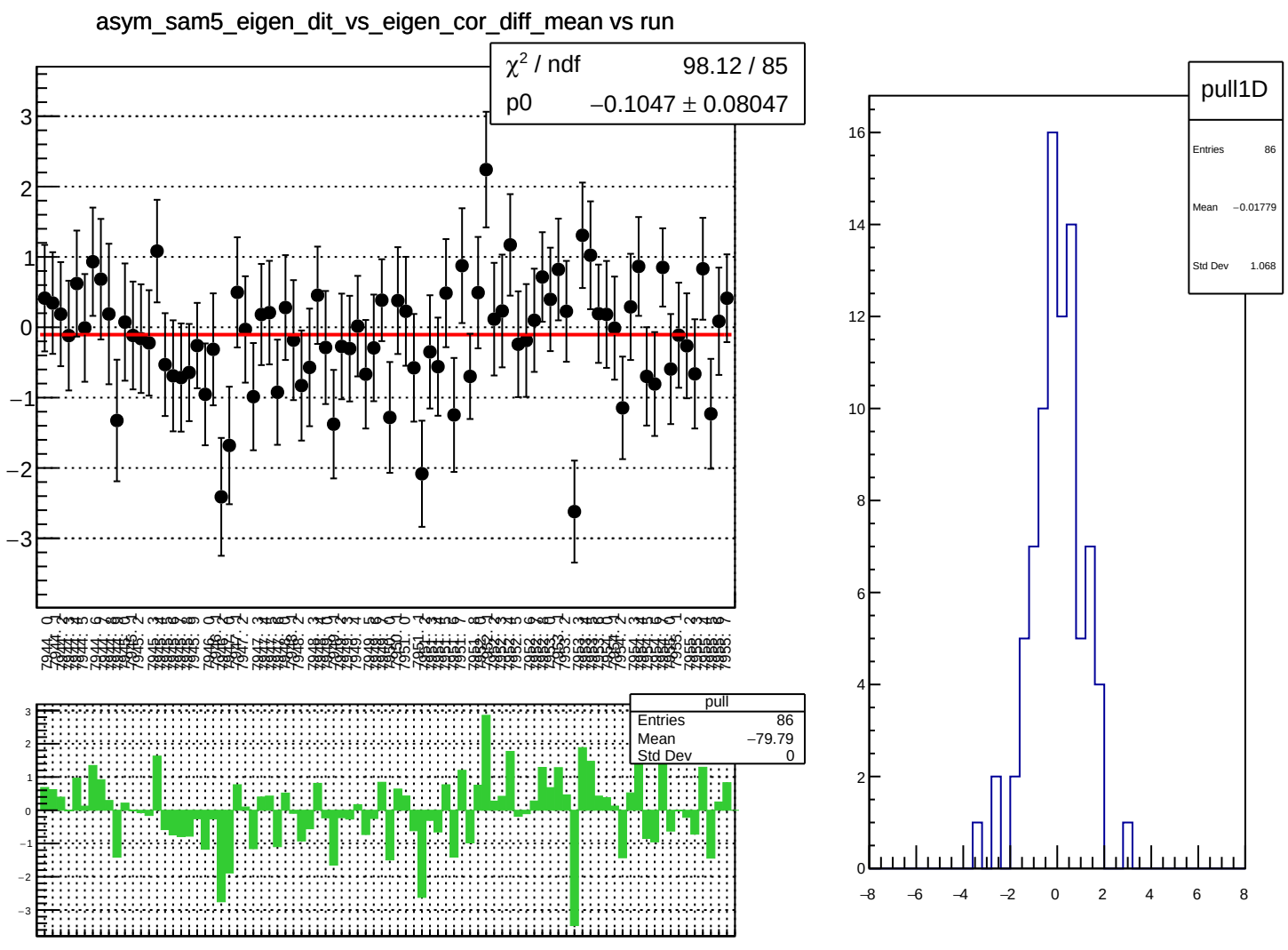

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.79 / 85
p0 −3.68e−06 ± 3.267e−06
pull
Entries 86
Mean 64.03
Std Dev 0

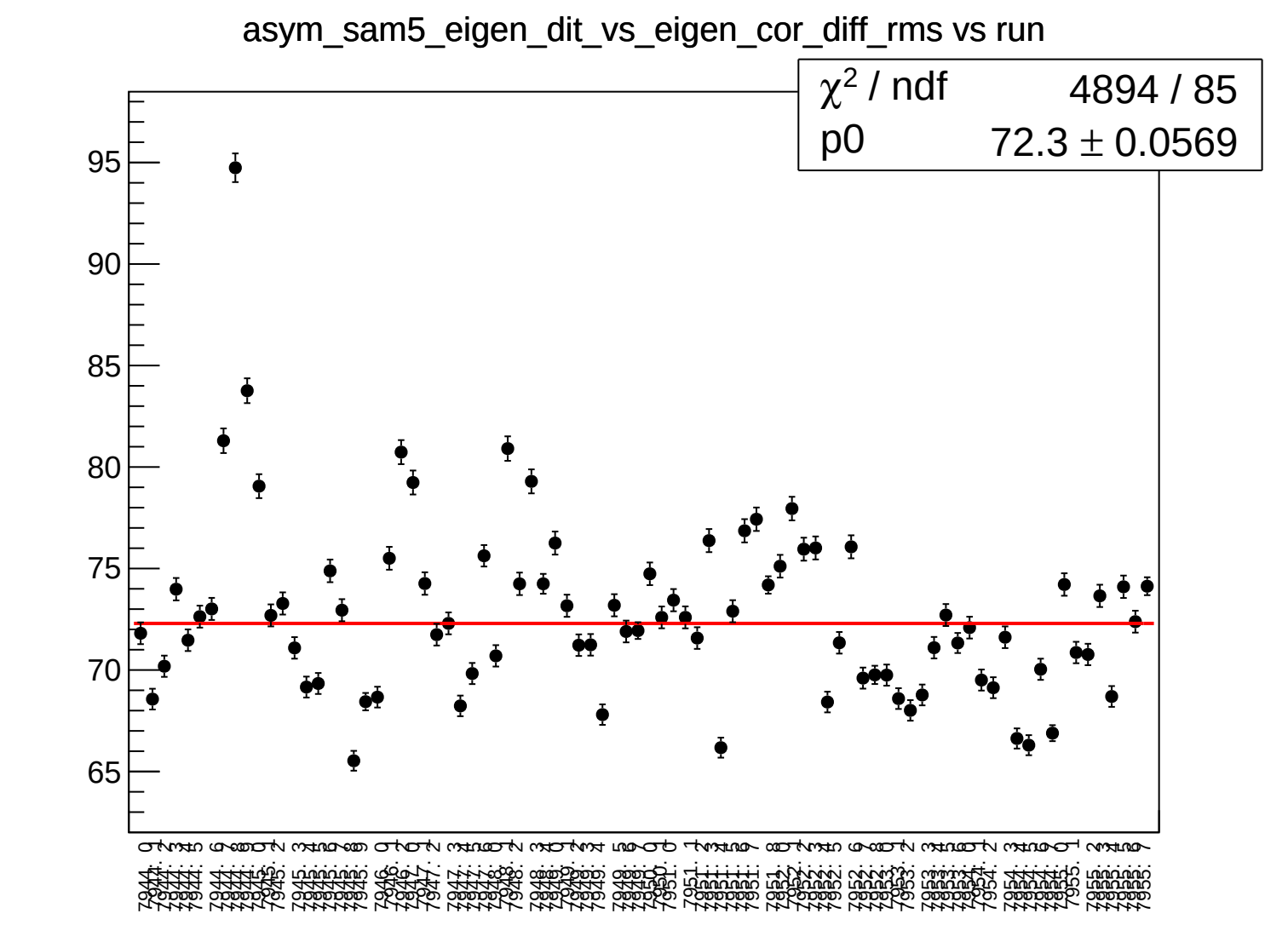

pull1D
Entries 86
Mean −0.01573
Std Dev 0.9986

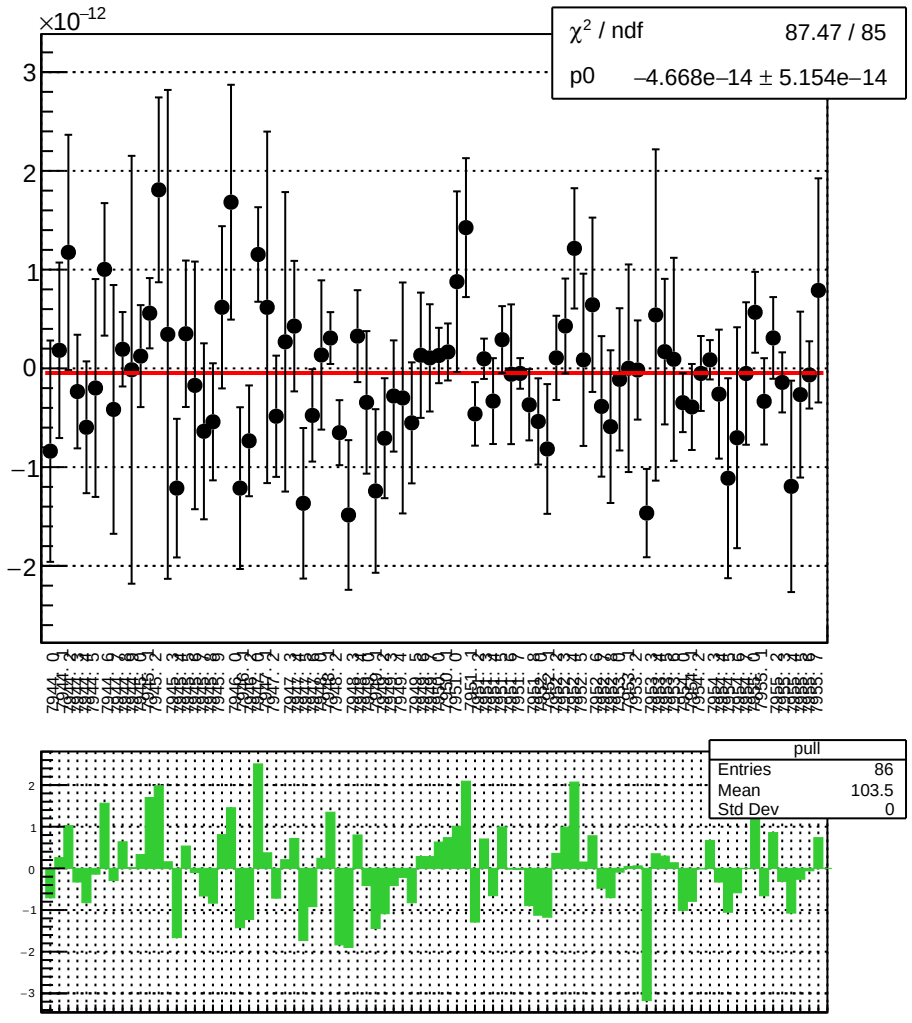

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.332e+04 / 85
p0 0.002927 ± 2.31e–06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

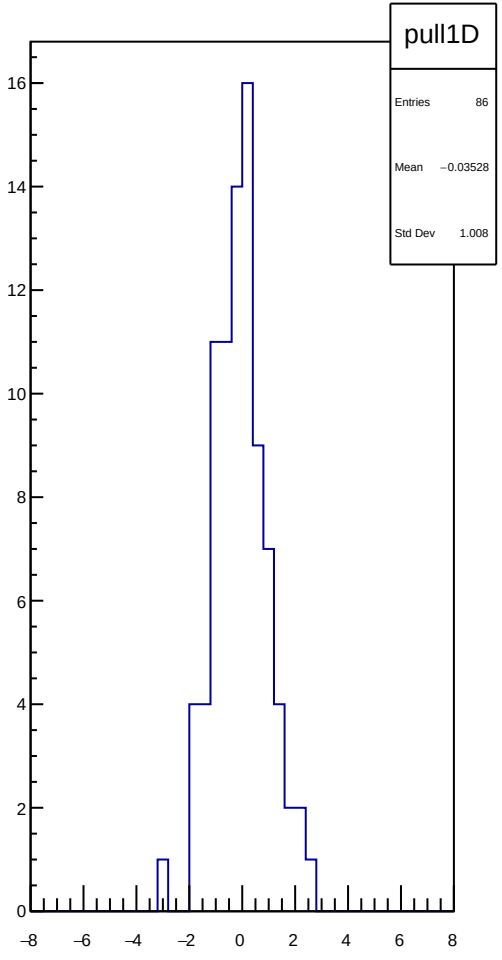

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.12 / 85
p0 −0.1047 ± 0.08047
pull
Entries 86
Mean −79.79
Std Dev 0
pull1D
Entries 86
Mean −0.01779
Std Dev 1.068

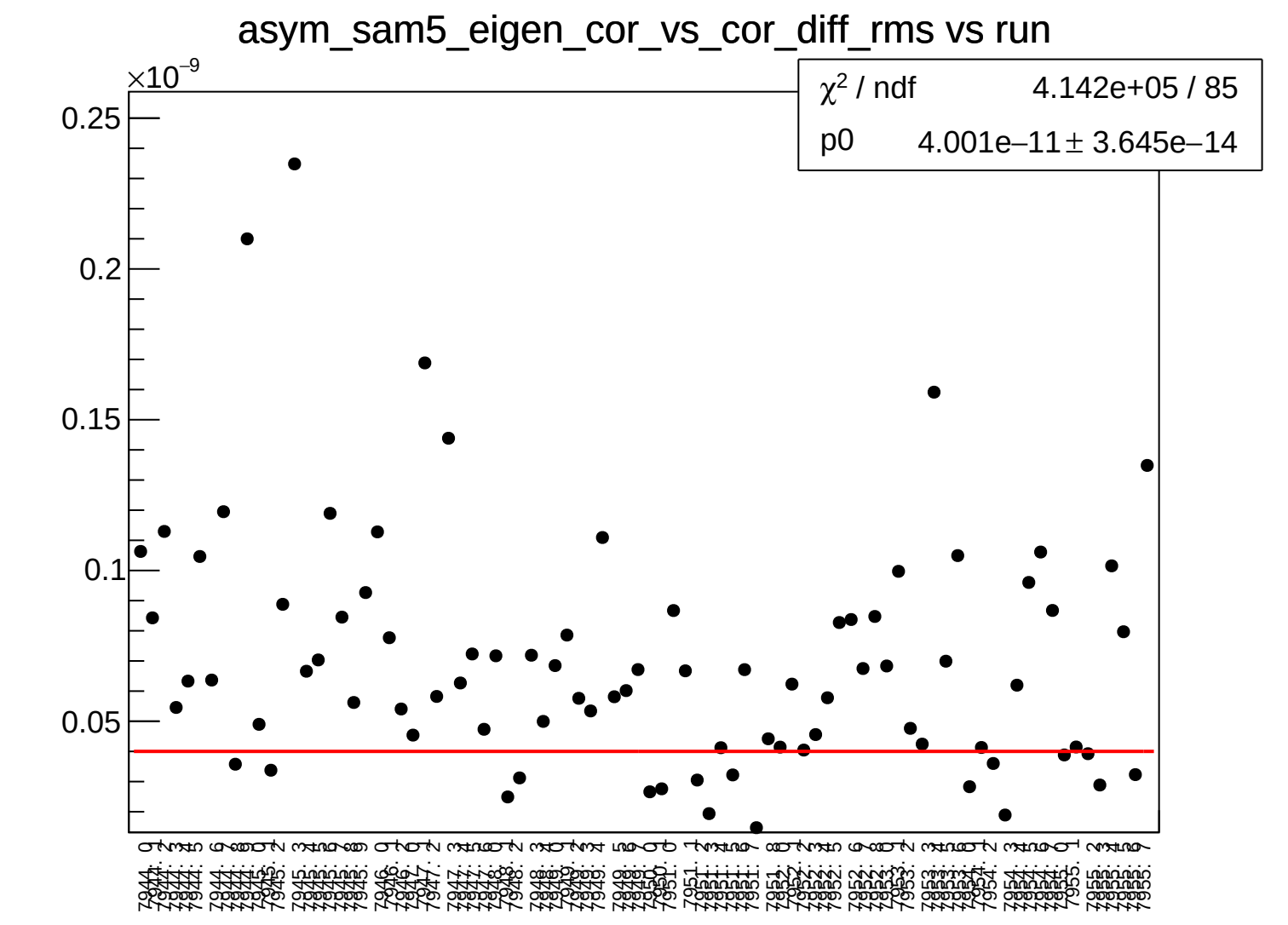

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4894 / 85
p0 72.3 ± 0.0569
95
90
85
80
75
70
65

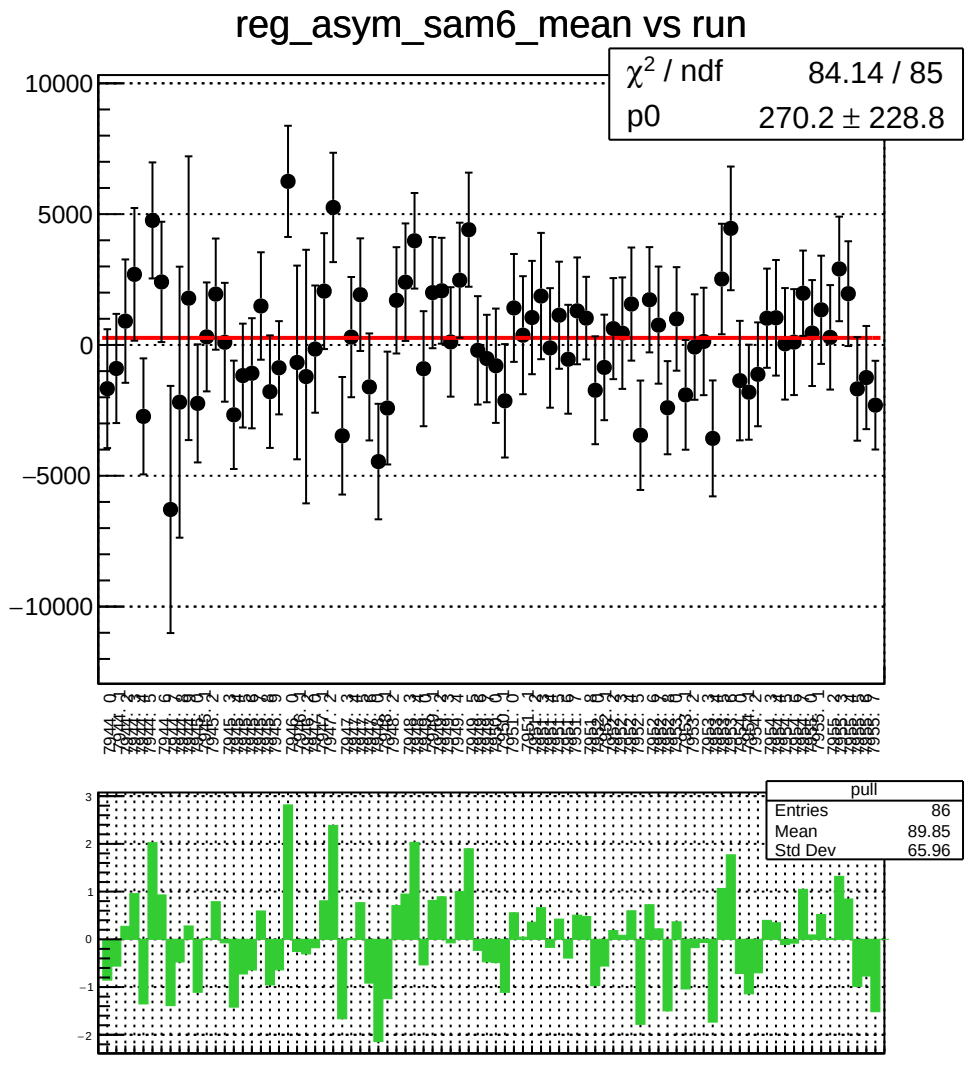

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.12 / 85
p0 −0.1047 ± 0.08047
pull
Entries 86
Mean −79.79
Std Dev 0
pull1D
Entries 86
Mean −0.01779
Std Dev 1.068

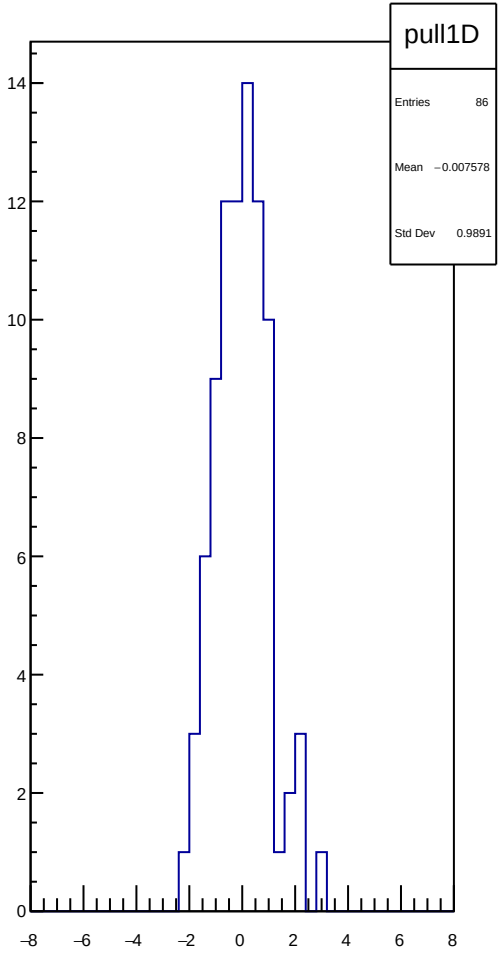

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4894 / 85
p0 72.3 ± 0.0569
95
90
85
80
75
70
65

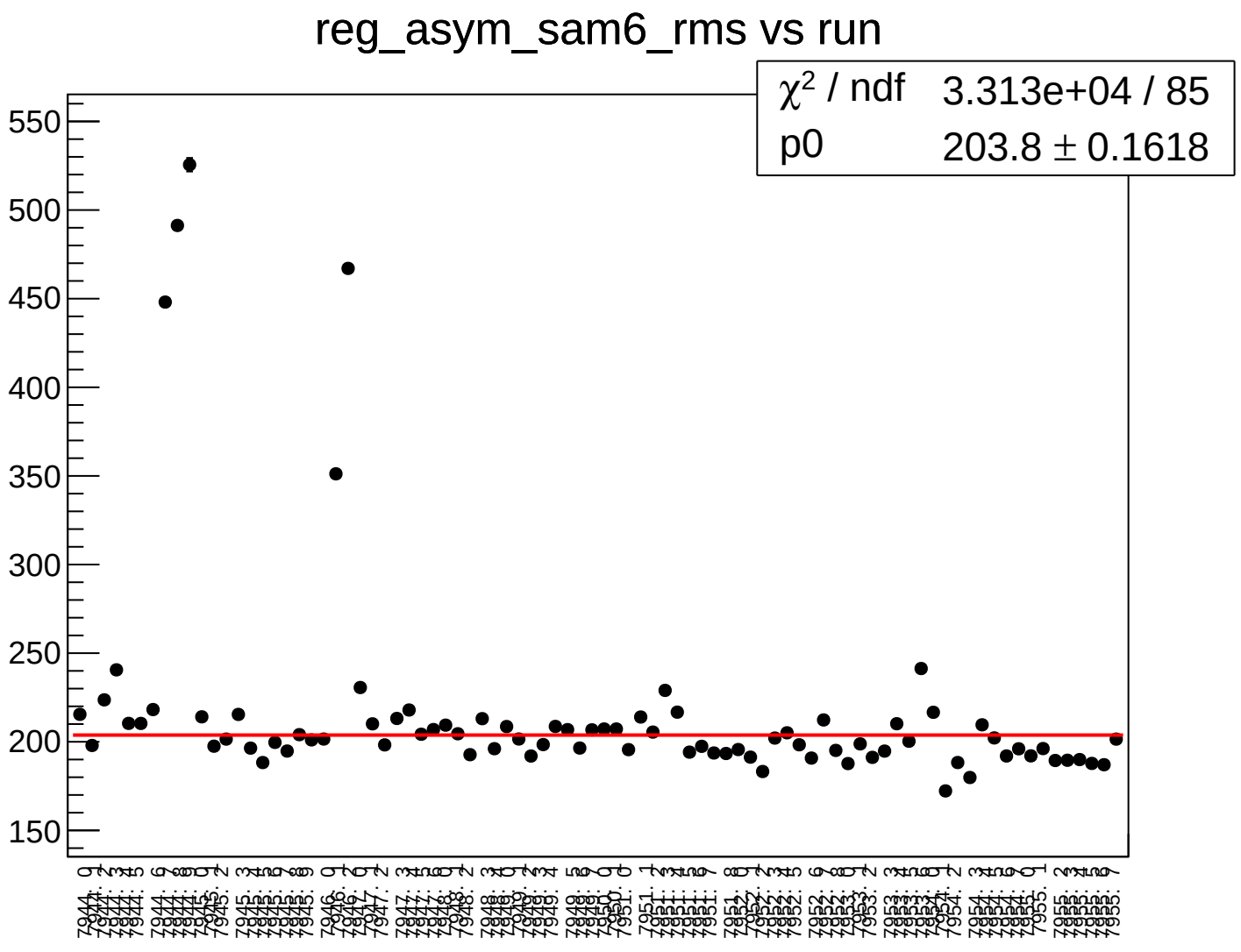

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.47 / 85
p0 −4.668e−14 ± 5.154e−14
pull
Entries 86
Mean 103.5
Std Dev 0

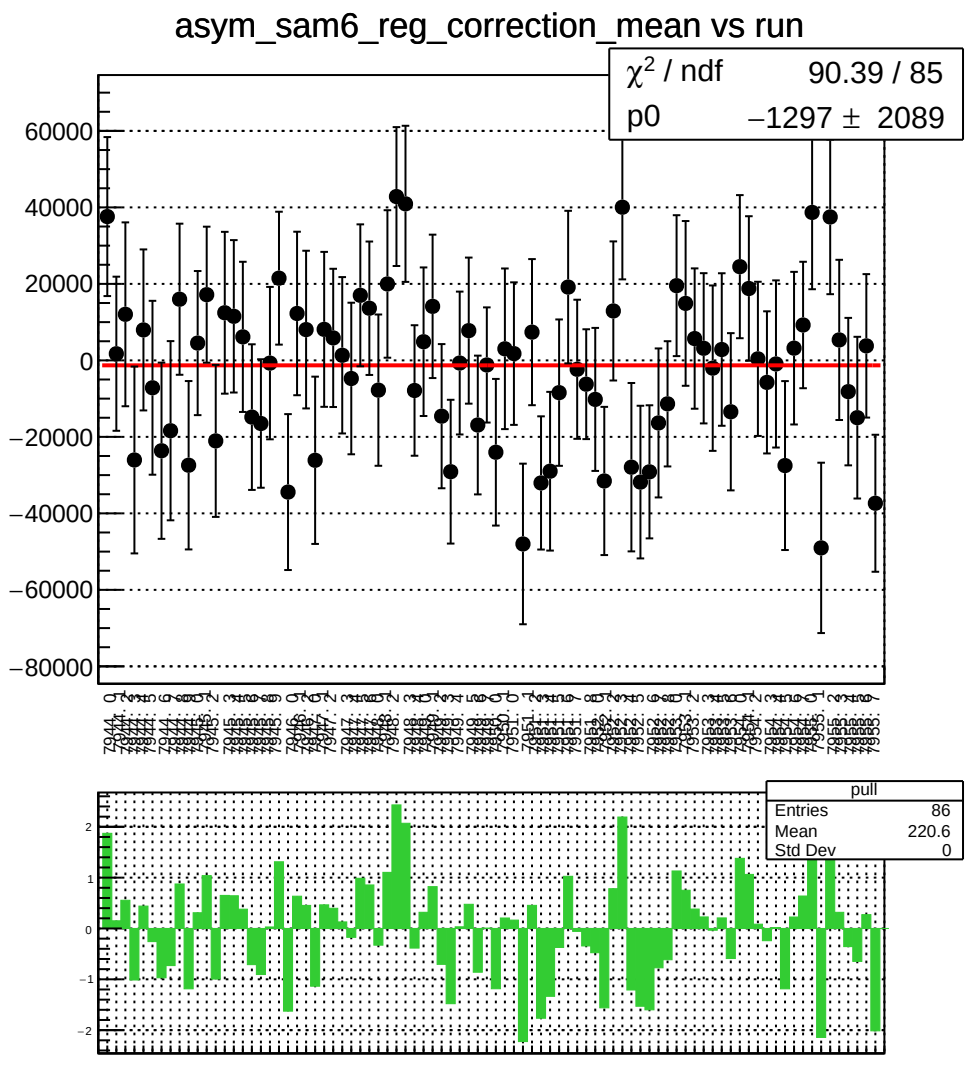

pull1D
Entries 86
Mean −0.03528
Std Dev 1.008

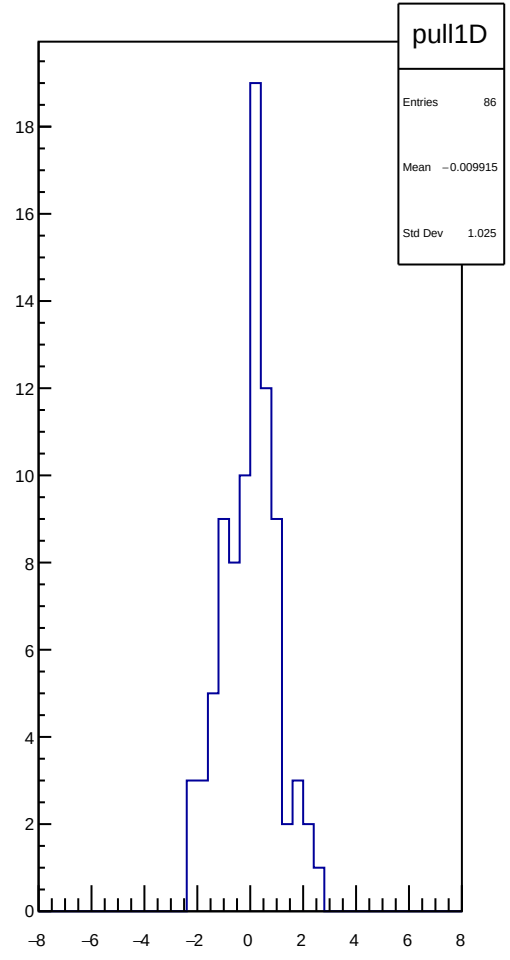

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.142e+05 / 85
p0 4.001e−11 ± 3.645e−14
0.25
0.2
0.15
0.1
0.05

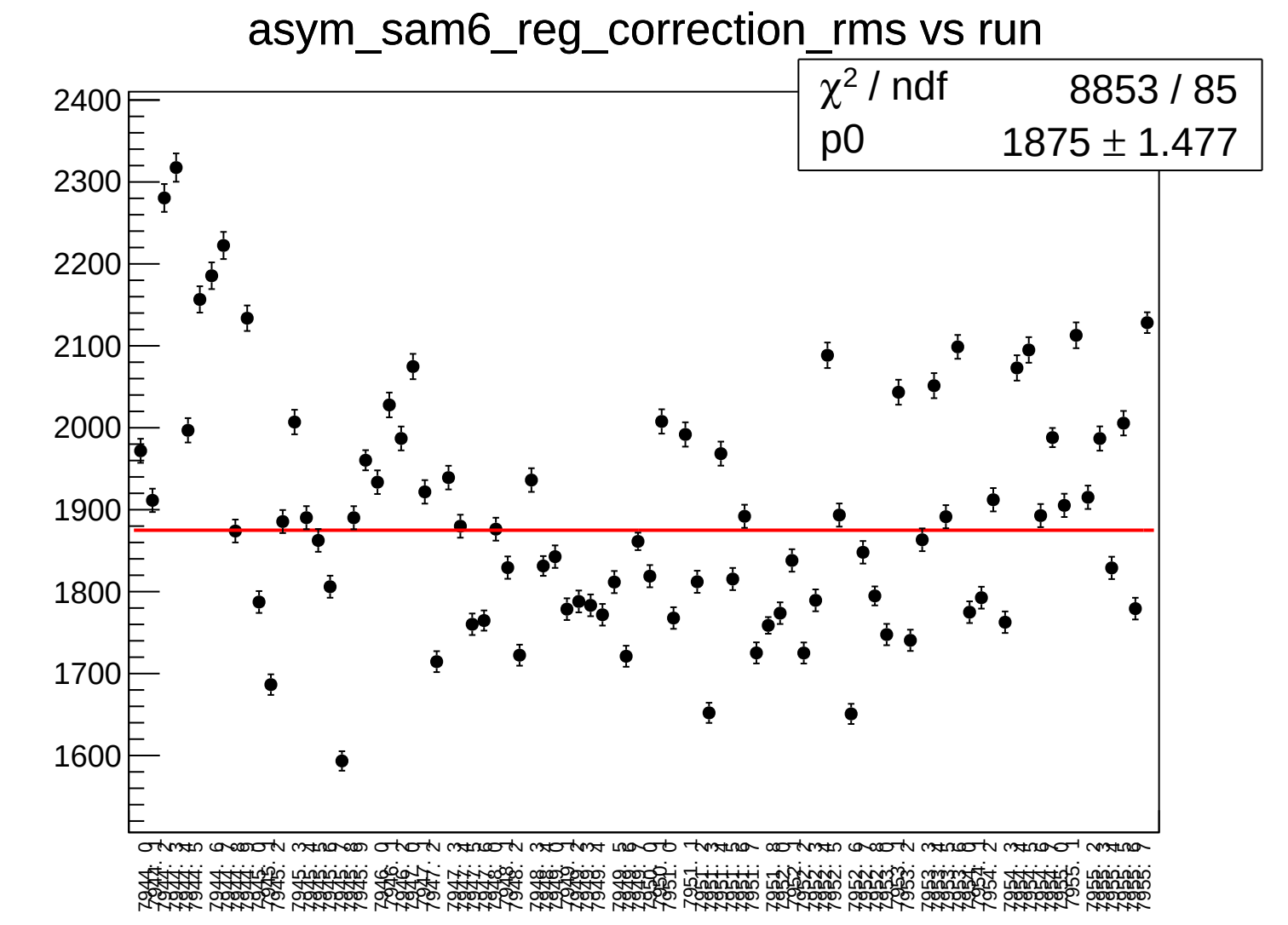

reg_asym_sam6_mean vs run
χ^2 / ndf 84.14 / 85
p0 270.2 ± 228.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 89.85
Std Dev 65.96
3
2
1
0
−1
−2

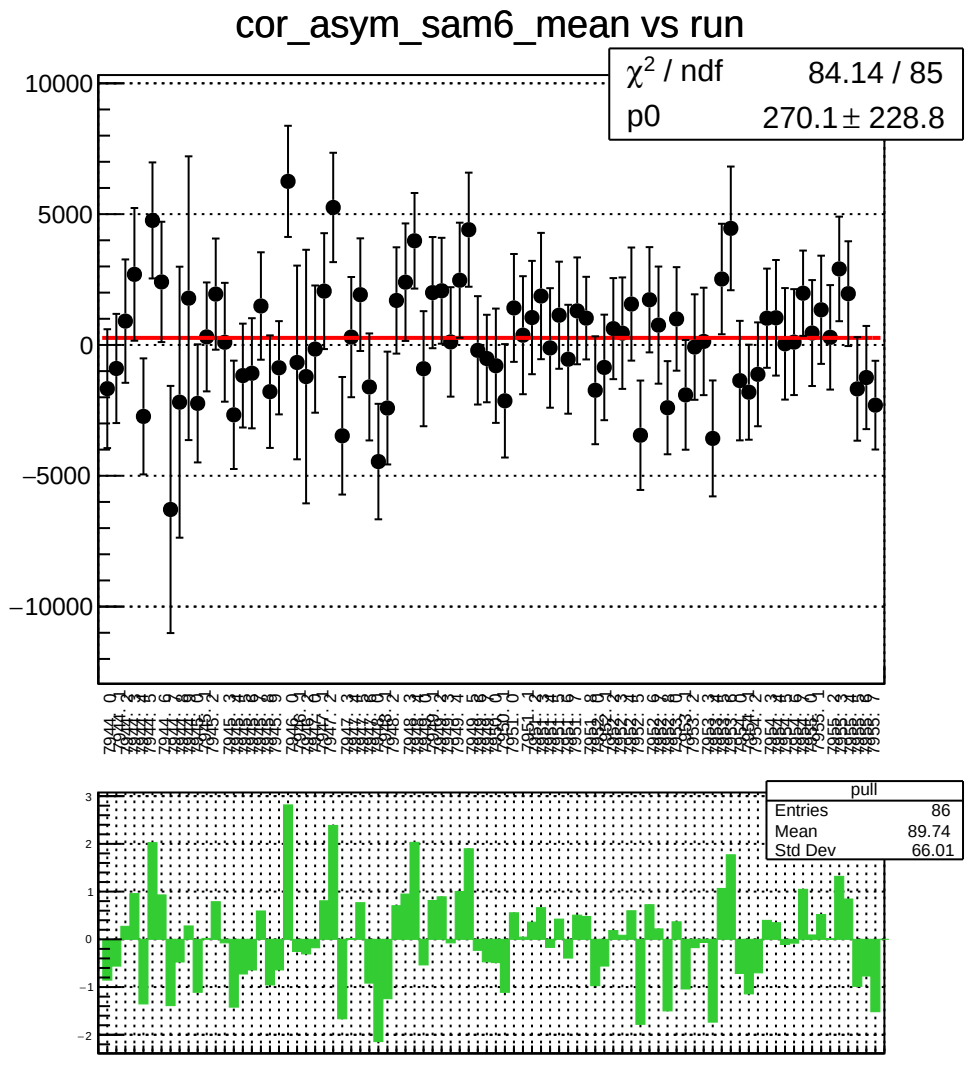

pull1D
Entries 86
Mean −0.007578
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

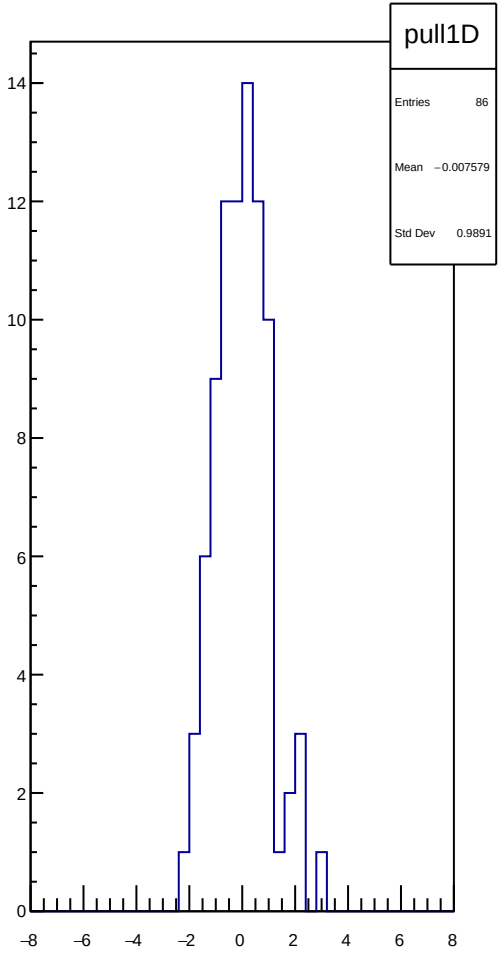

reg_asym_sam6_rms vs run
χ² / ndf 3.313e+04 / 85
p0 203.8 ± 0.1618
550
500
450
400
350
300
250
200
150

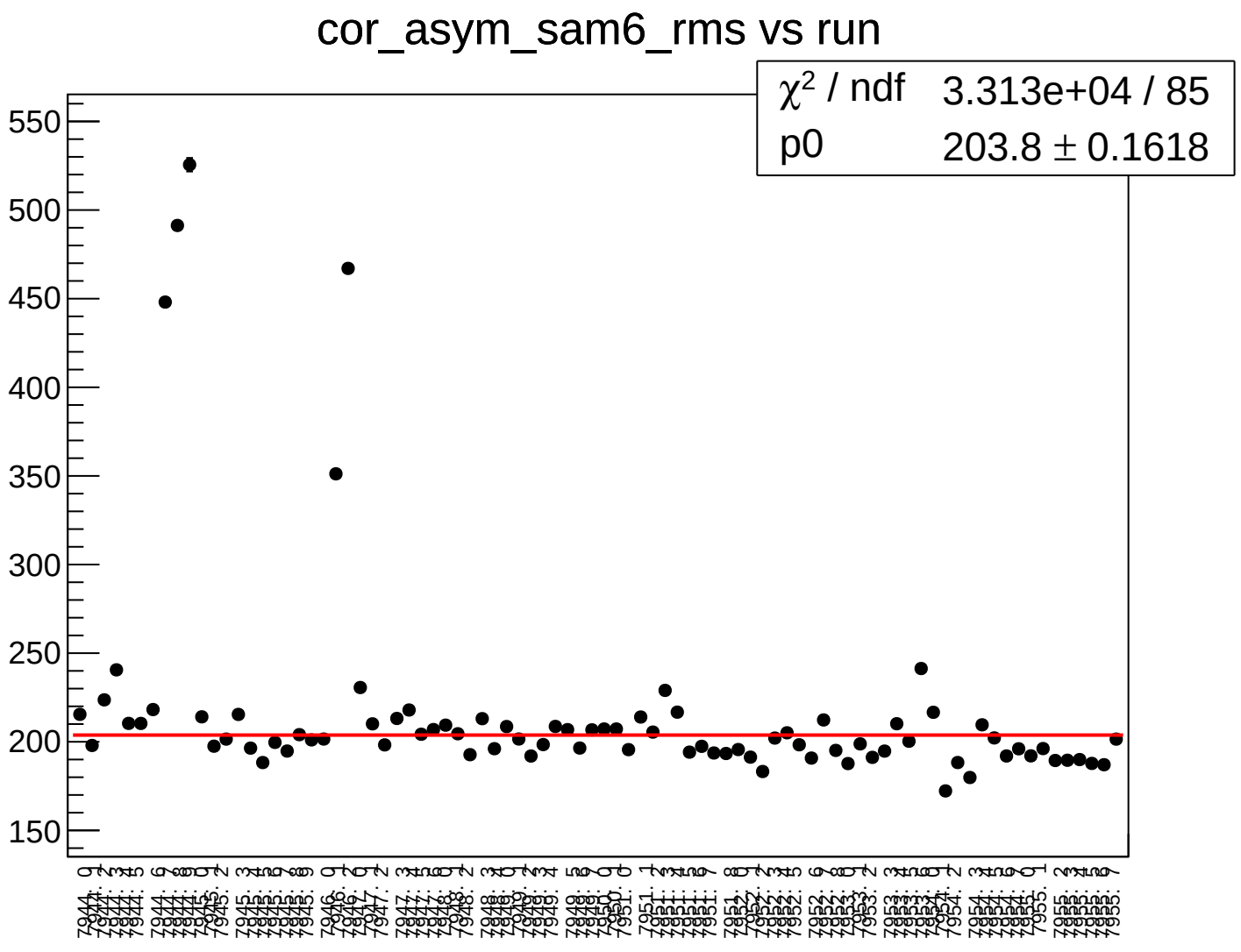

asym_sam6_reg_correction_mean vs run
χ² / ndf 90.39 / 85
p0 −1297 ± 2089
pull
Entries 86
Mean 220.6
Std Dev 0

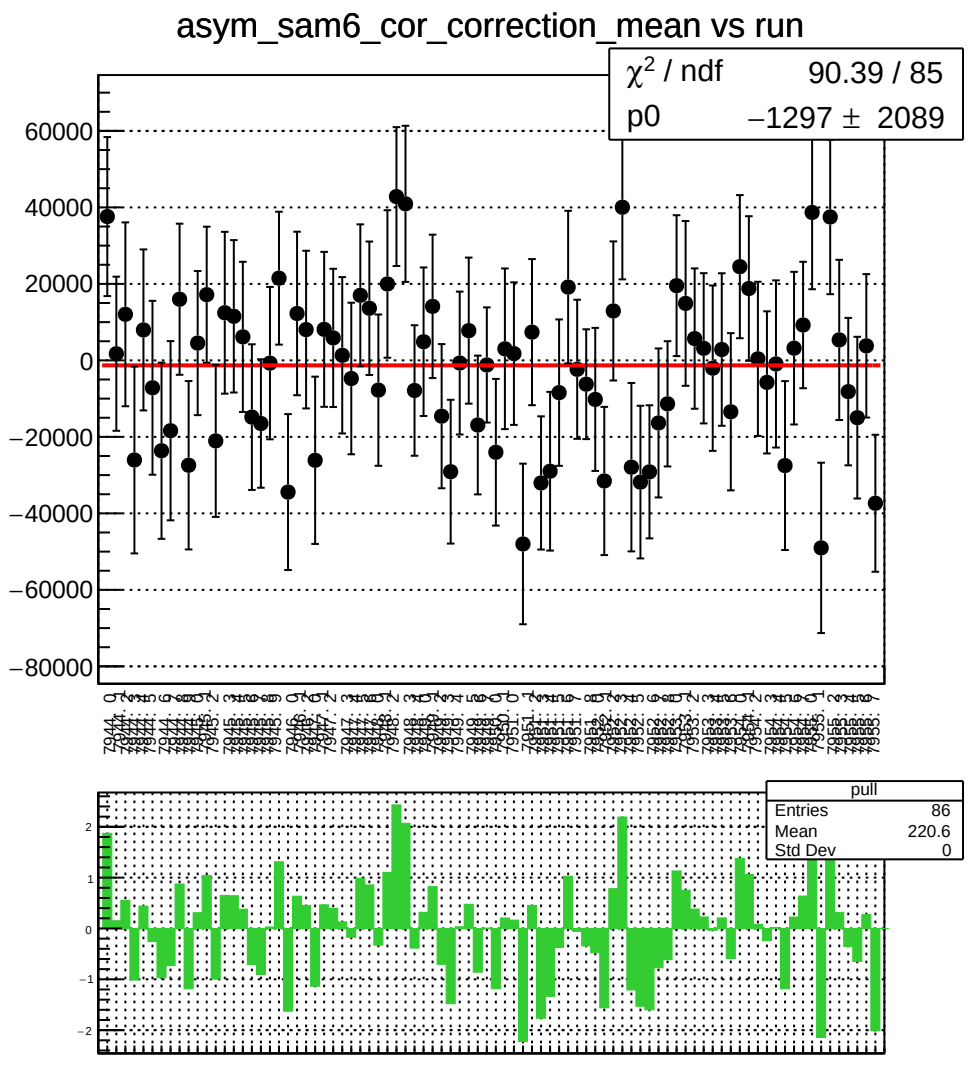

pull1D
Entries 86
Mean −0.009915
Std Dev 1.025

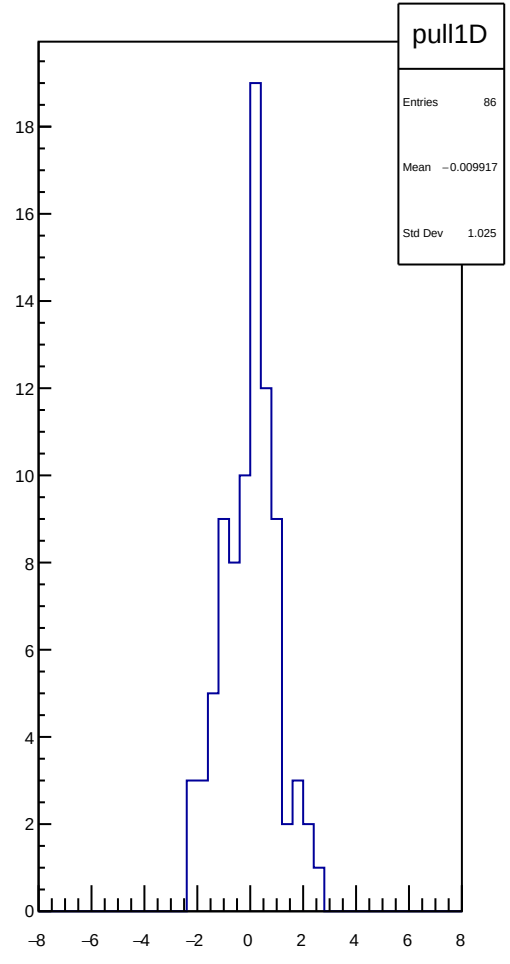

asym_sam6_reg_correction_rms vs run
χ² / ndf 8853 / 85
p0 1875 ± 1.477
2400
2300
2200
2100
2000
1900
1800
1700
1600

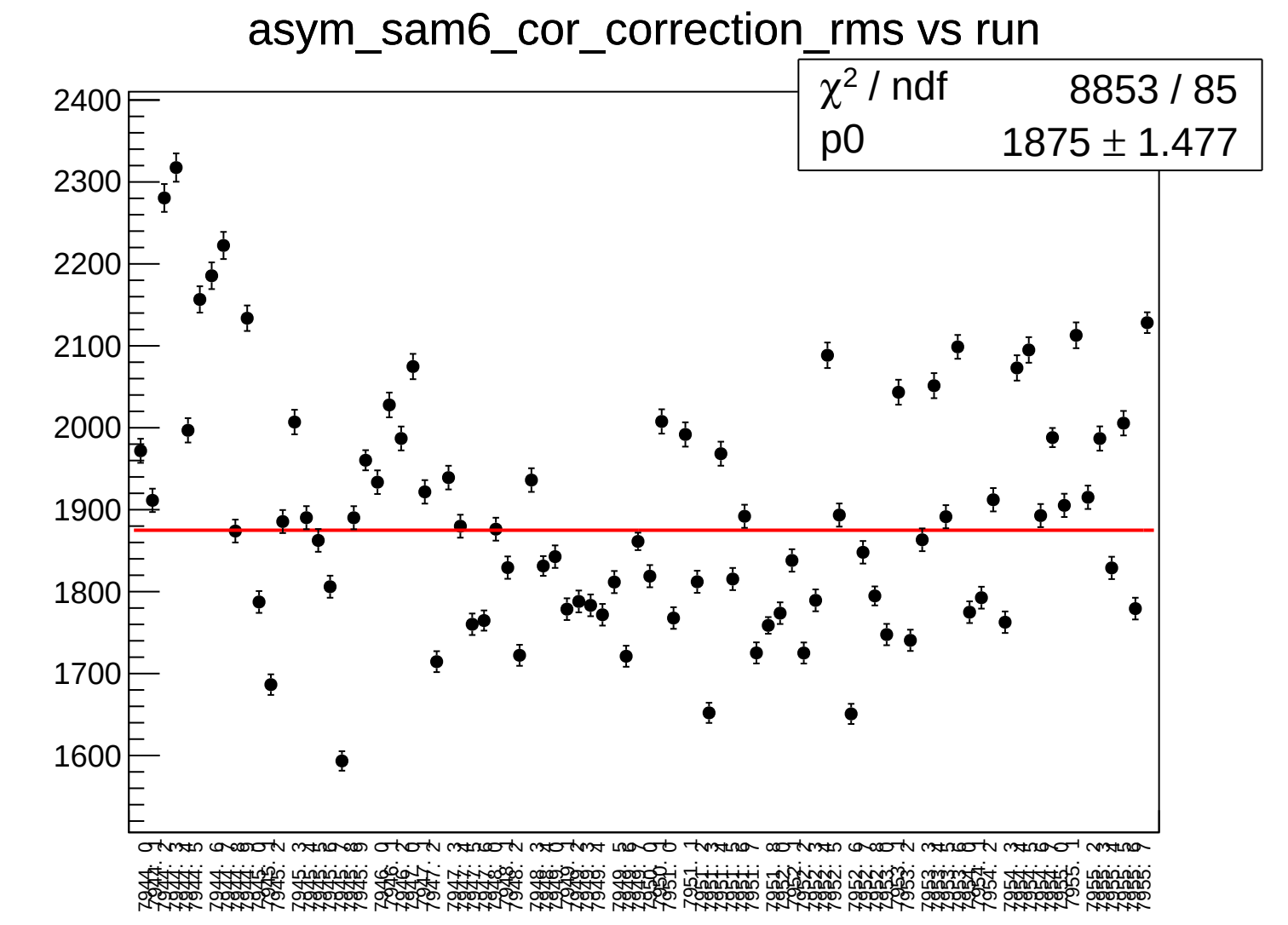

cor_asym_sam6_mean vs run
χ^2 / ndf 84.14 / 85
p0 270.1 ± 228.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 89.74
Std Dev 66.01
3
2
1
0
−1
−2

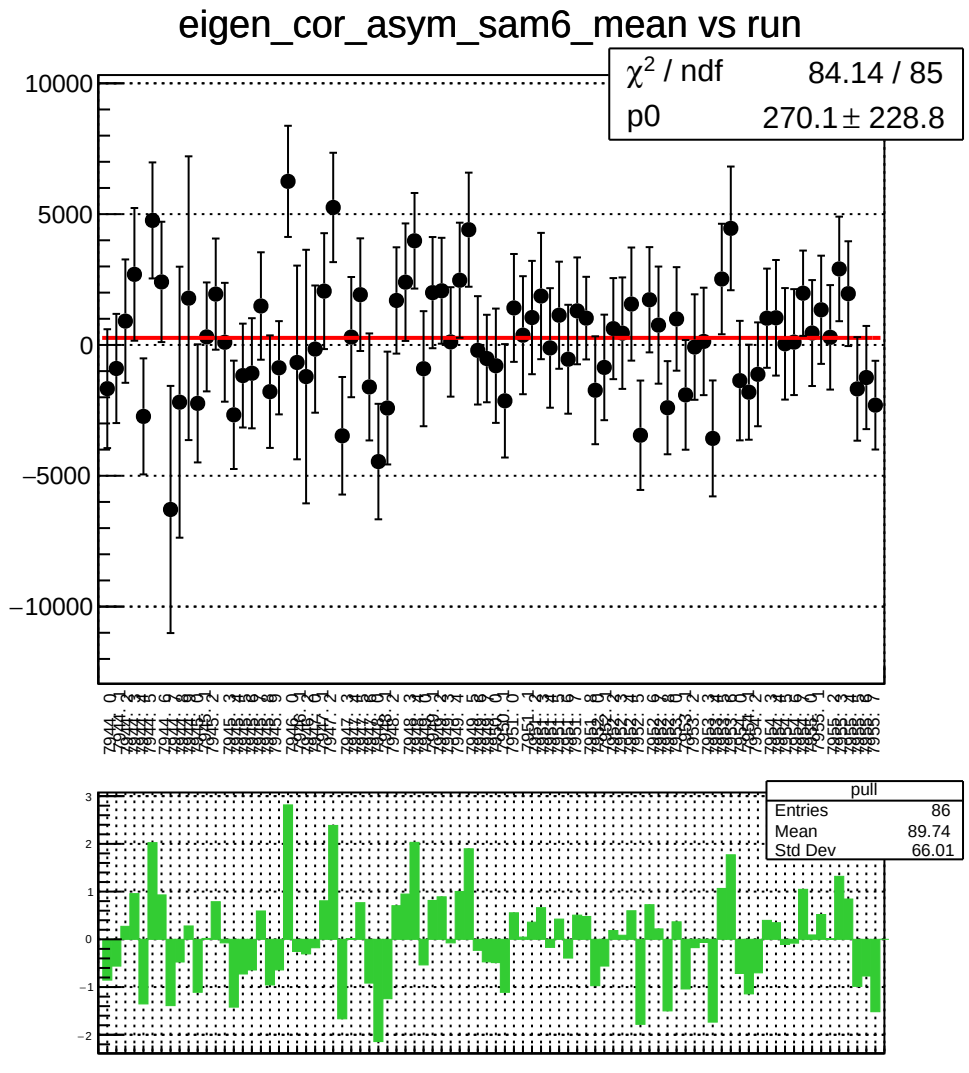

pull1D
Entries 86
Mean −0.007579
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

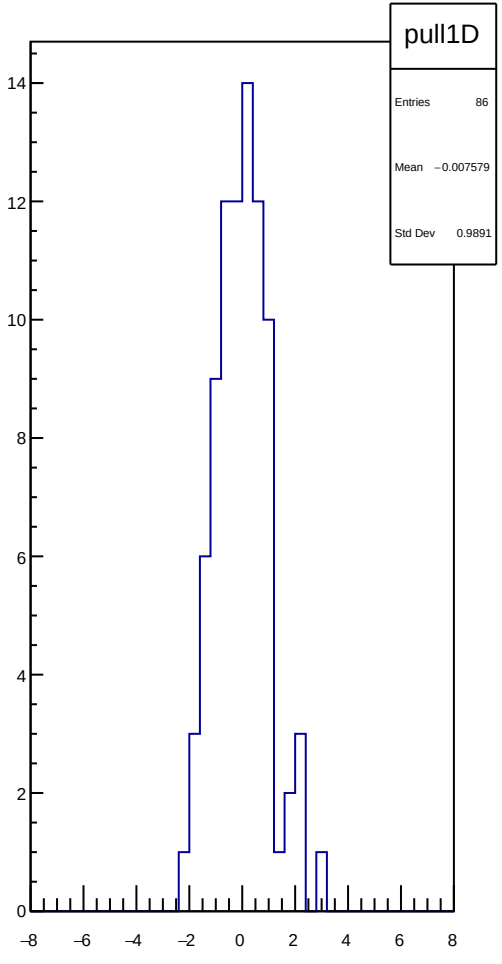

cor_asym_sam6_rms vs run
χ² / ndf 3.313e+04 / 85
p0 203.8 ± 0.1618
550
500
450
400
350
300
250
200
150

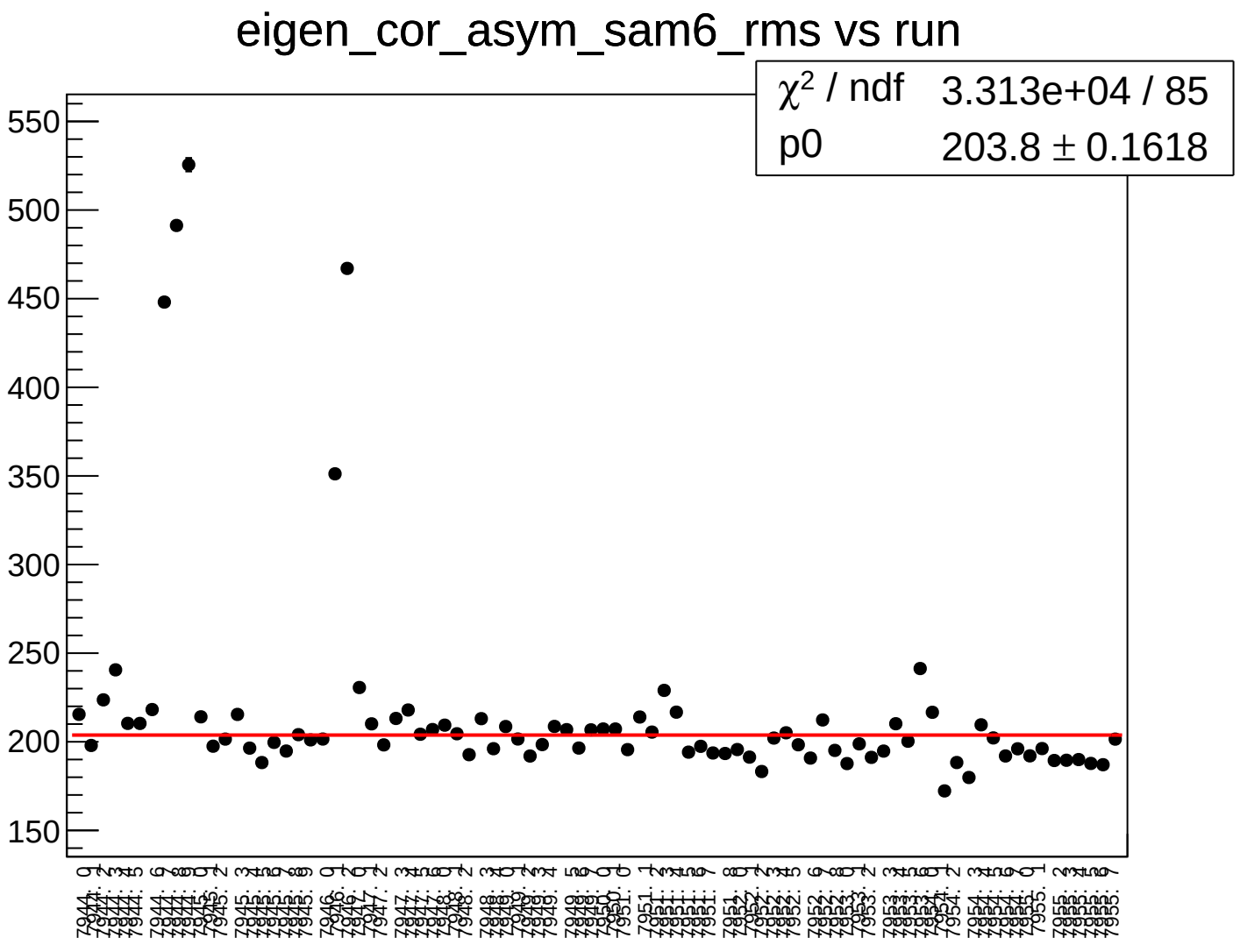

asym_sam6_cor_correction_mean vs run
χ² / ndf 90.39 / 85
p0 −1297 ± 2089
pull
Entries 86
Mean 220.6
Std Dev 0

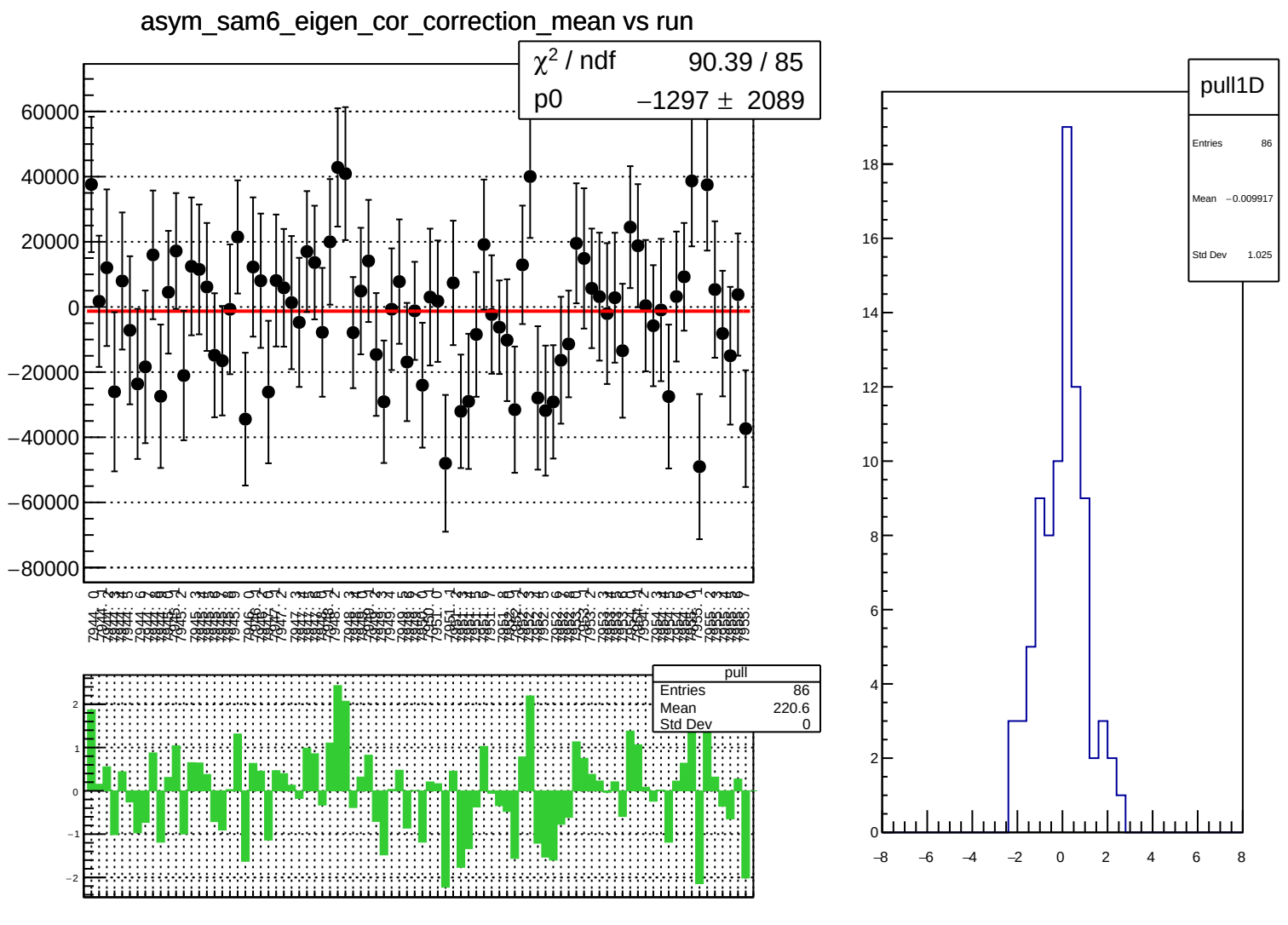

pull1D
Entries 86
Mean −0.009917
Std Dev 1.025

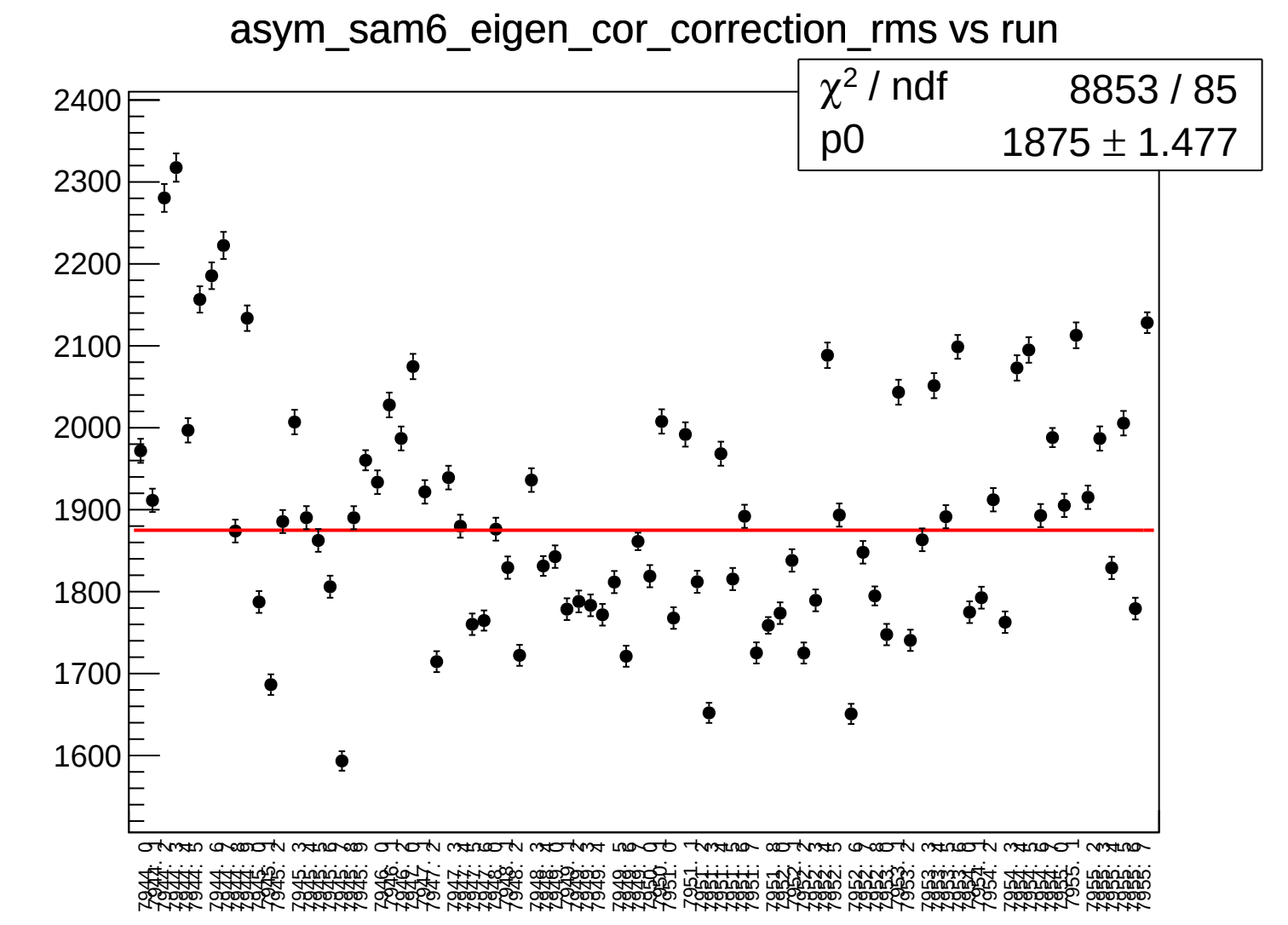

asym_sam6_cor_correction_rms vs run
χ² / ndf 8853 / 85
p0 1875 ± 1.477
2400
2300
2200
2100
2000
1900
1800
1700
1600

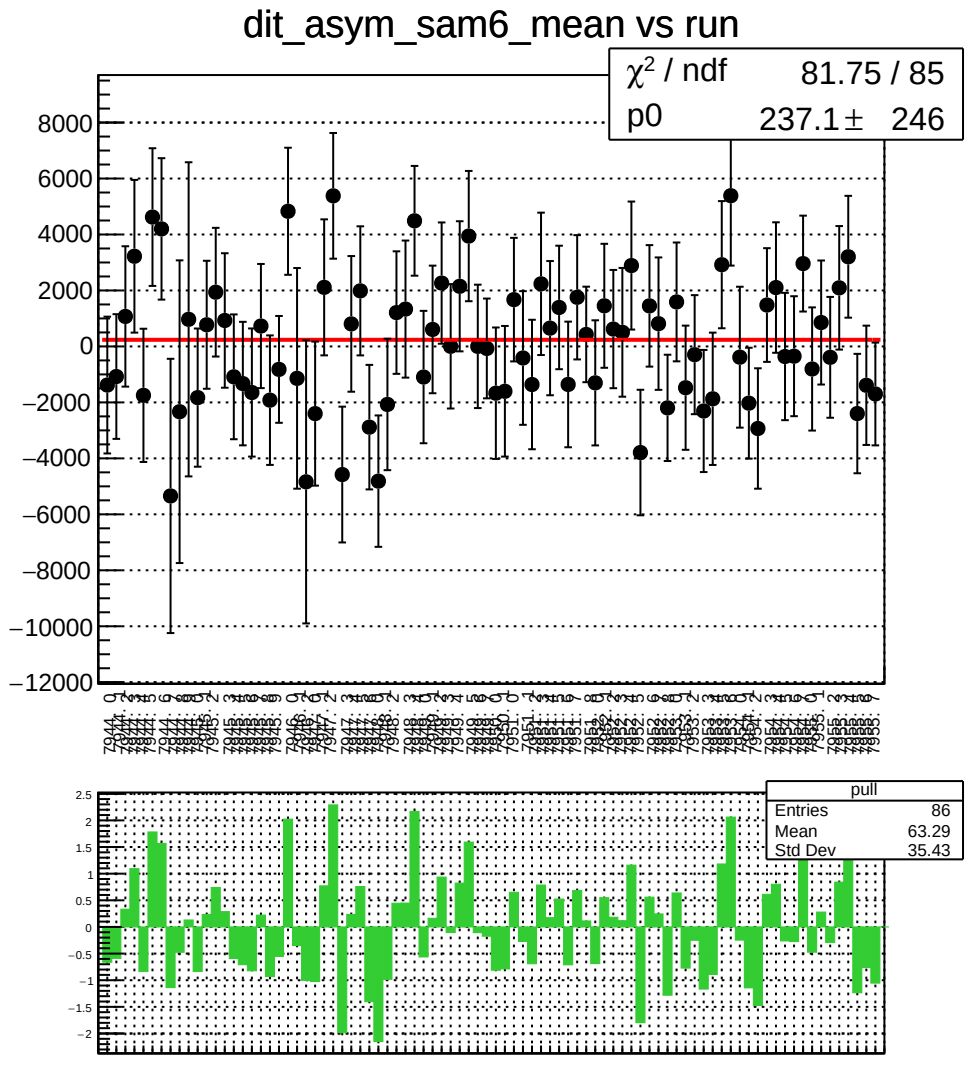

eigen_cor_asym_sam6_mean vs run
χ^2 / ndf 84.14 / 85
p0 270.1 ± 228.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 89.74
Std Dev 66.01
3
2
1
0
−1
−2

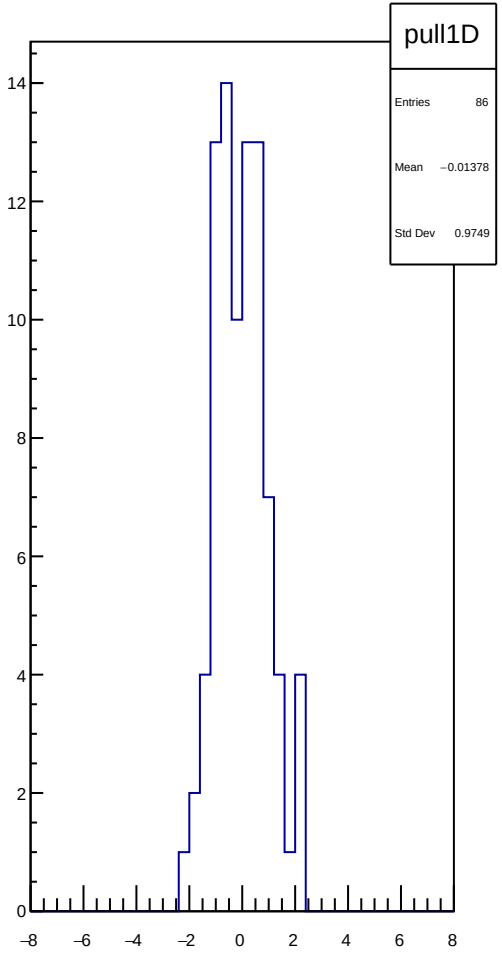

pull1D
Entries 86
Mean −0.007579
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

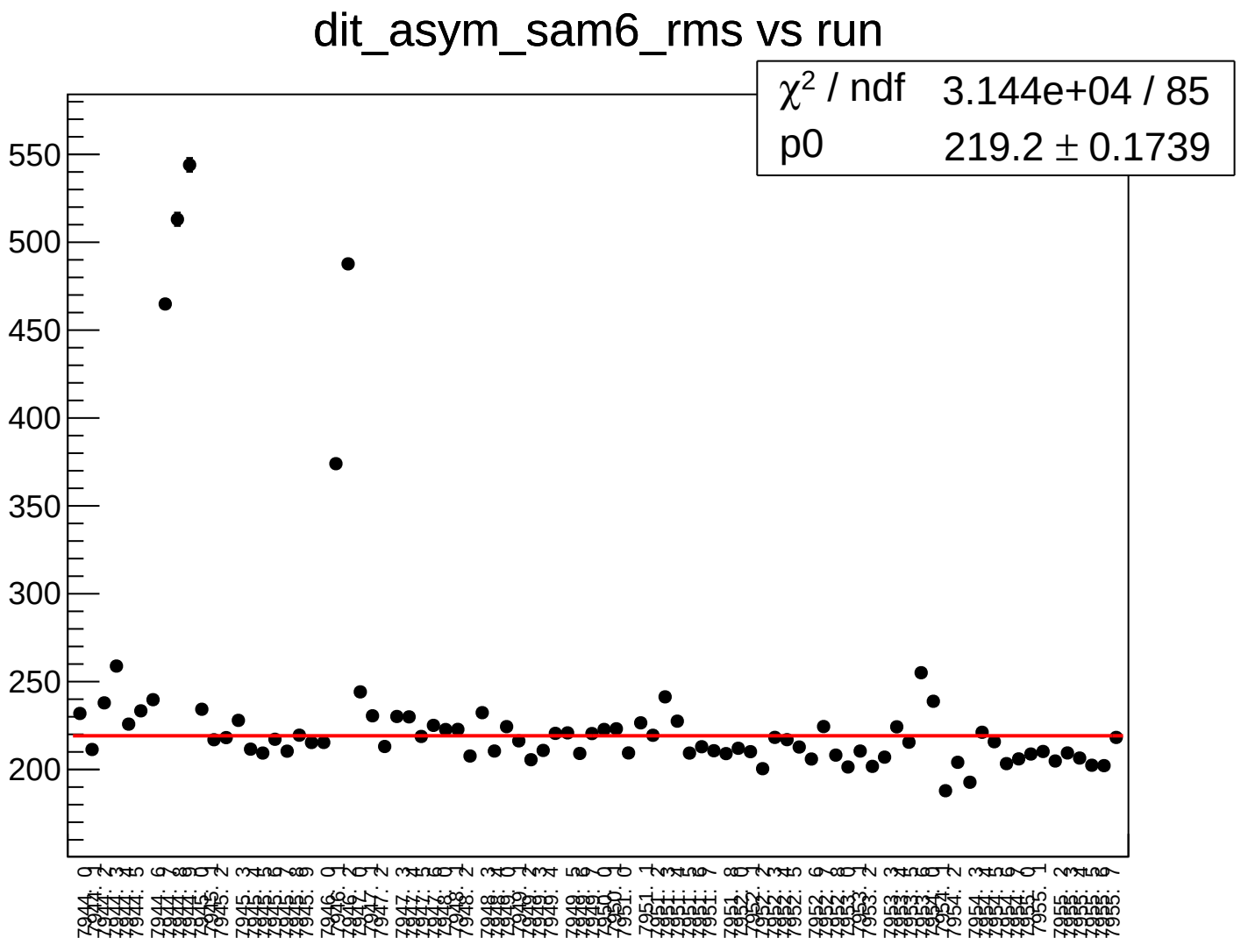

eigen_cor_asym_sam6_rms vs run
χ^2 / ndf 3.313e+04 / 85
p0 203.8 ± 0.1618
550
500
450
400
350
300
250
200
150

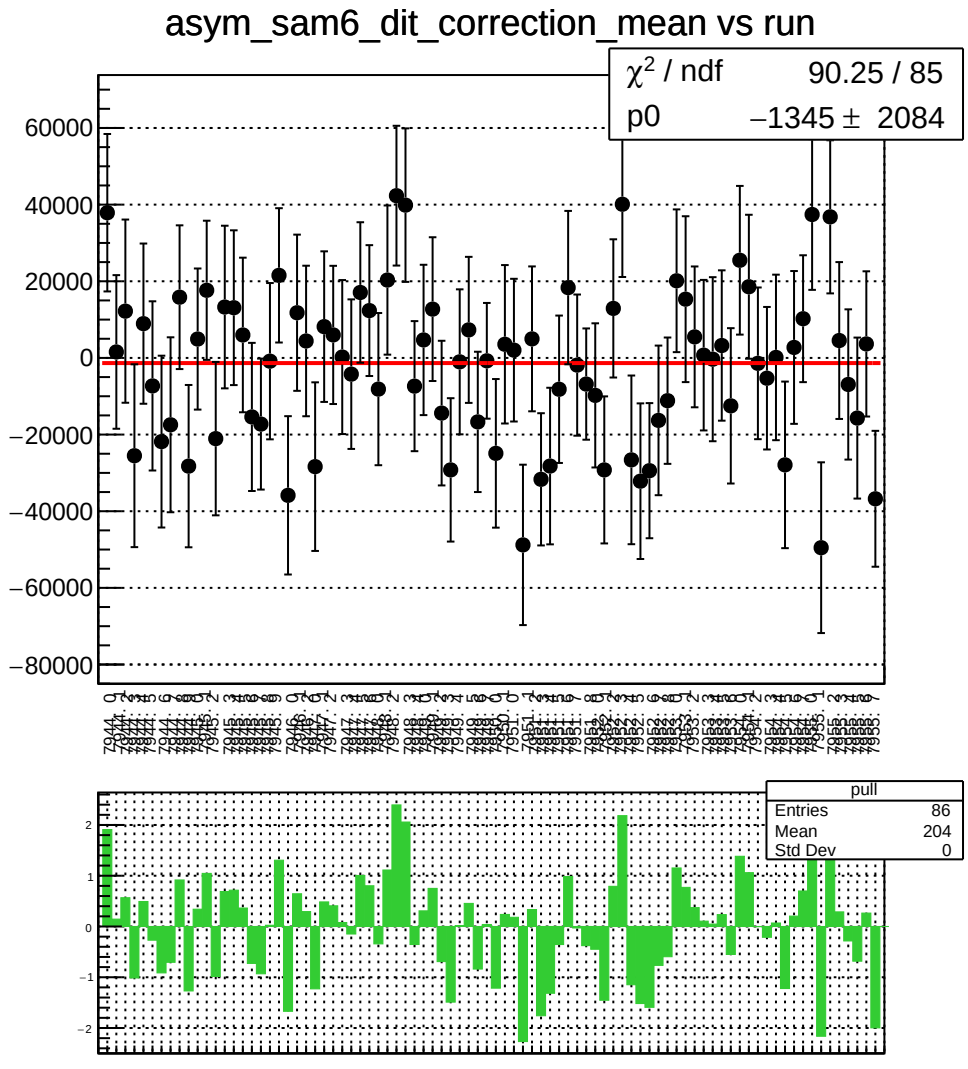

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 90.39 / 85
p0 −1297 ± 2089
pull
Entries 86
Mean 220.6
Std Dev 0
pull1D
Entries 86
Mean −0.009917
Std Dev 1.025

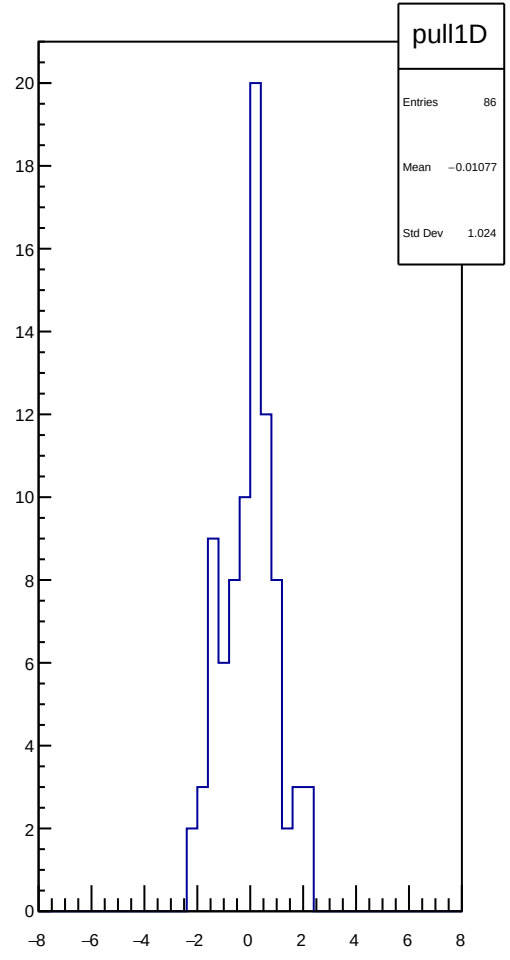

asym_sam6_eigen_cor_correction_rms vs run
χ^2 / ndf 8853 / 85
p0 1875 ± 1.477
2400
2300
2200
2100
2000
1900
1800
1700
1600

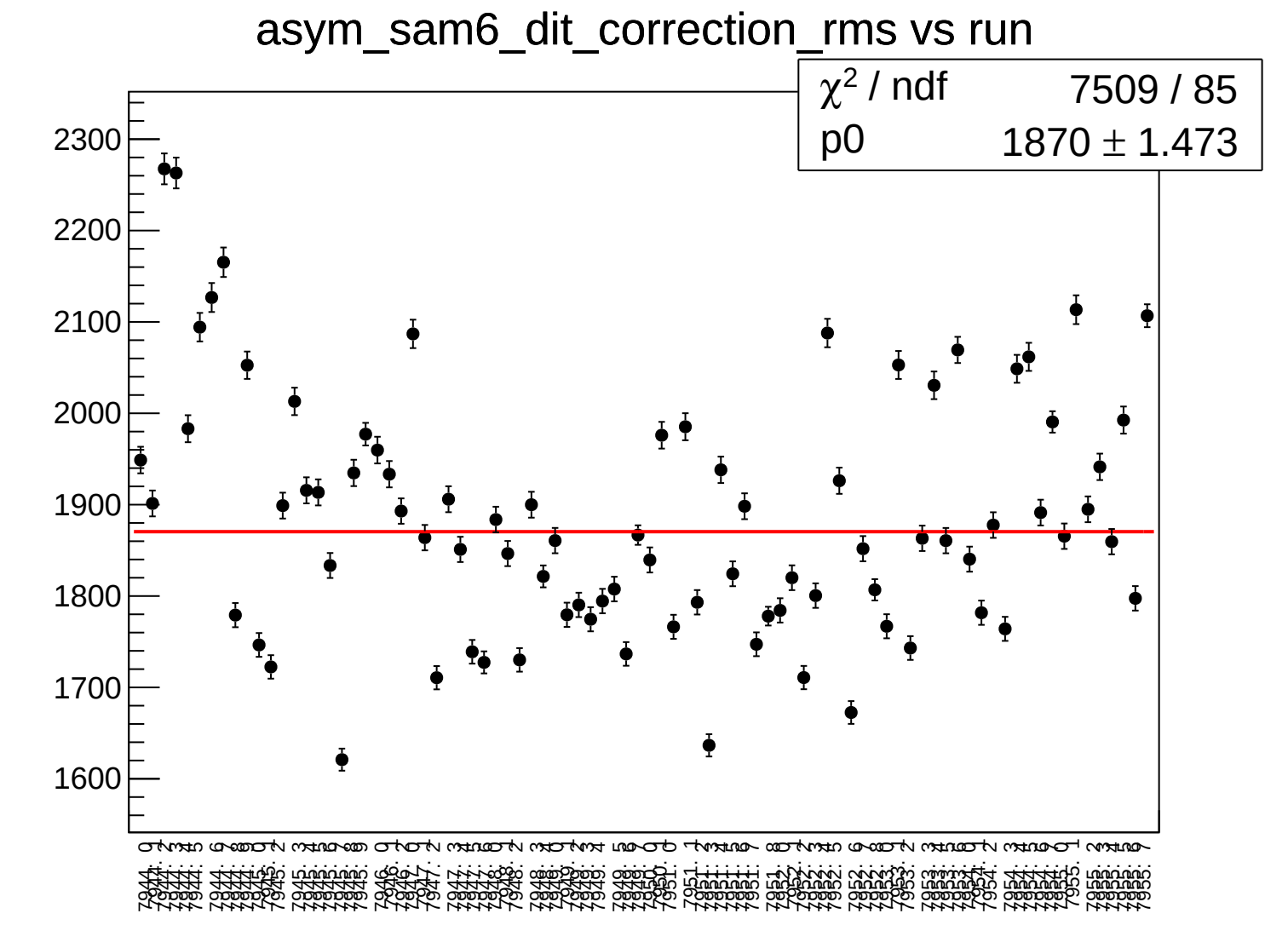

dit_asym_sam6_mean vs run
χ² / ndf 81.75 / 85
p0 237.1 ± 246
pull
Entries 86
Mean 63.29
Std Dev 35.43

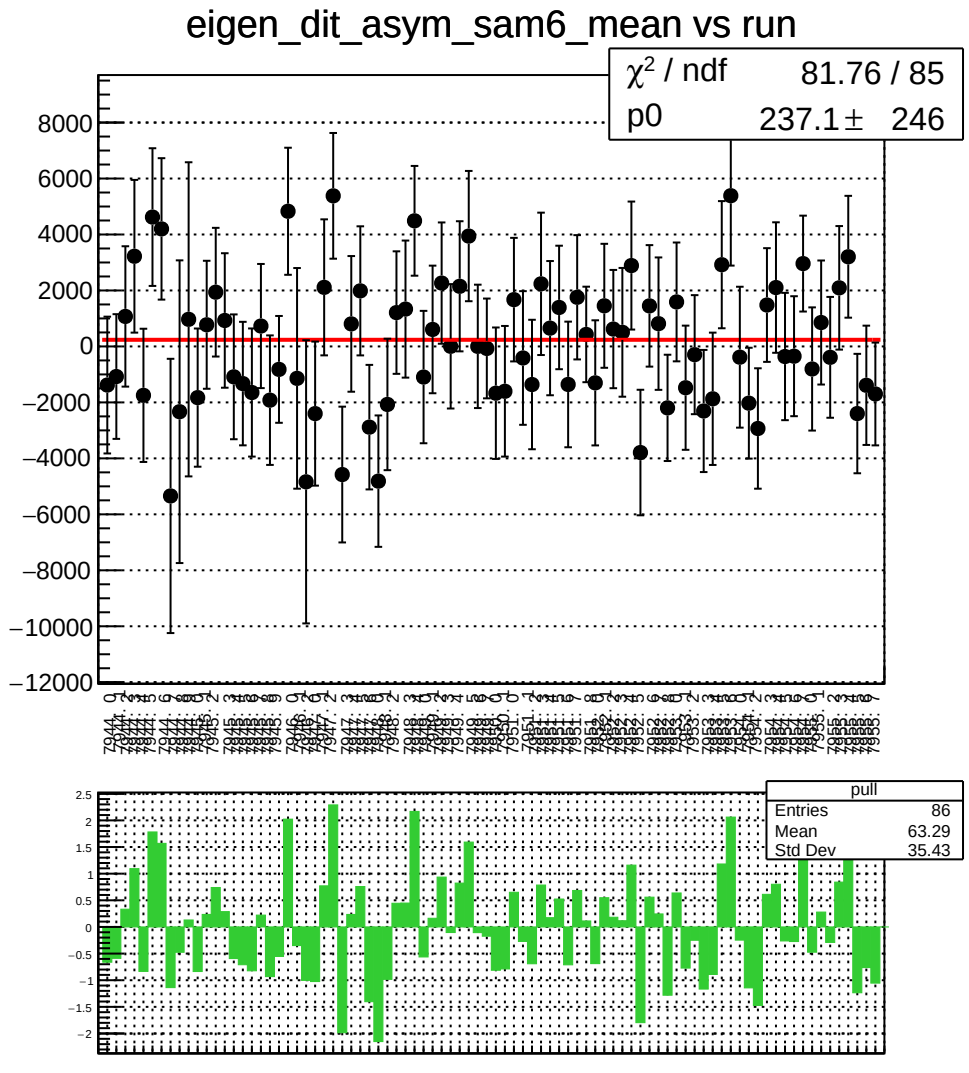

pull1D
Entries 86
Mean −0.01378
Std Dev 0.9749

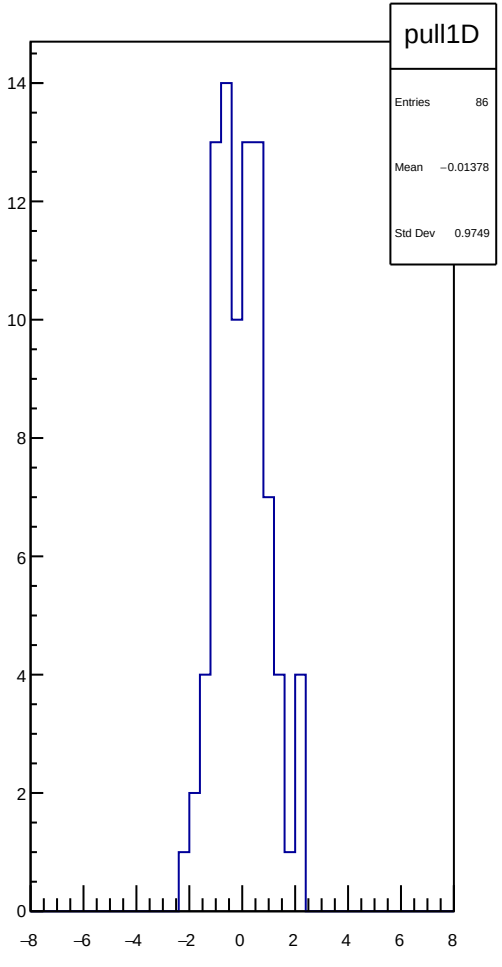

dit_asym_sam6_rms vs run
χ² / ndf 3.144e+04 / 85
p0 219.2 ± 0.1739
550
500
450
400
350
300
250
200

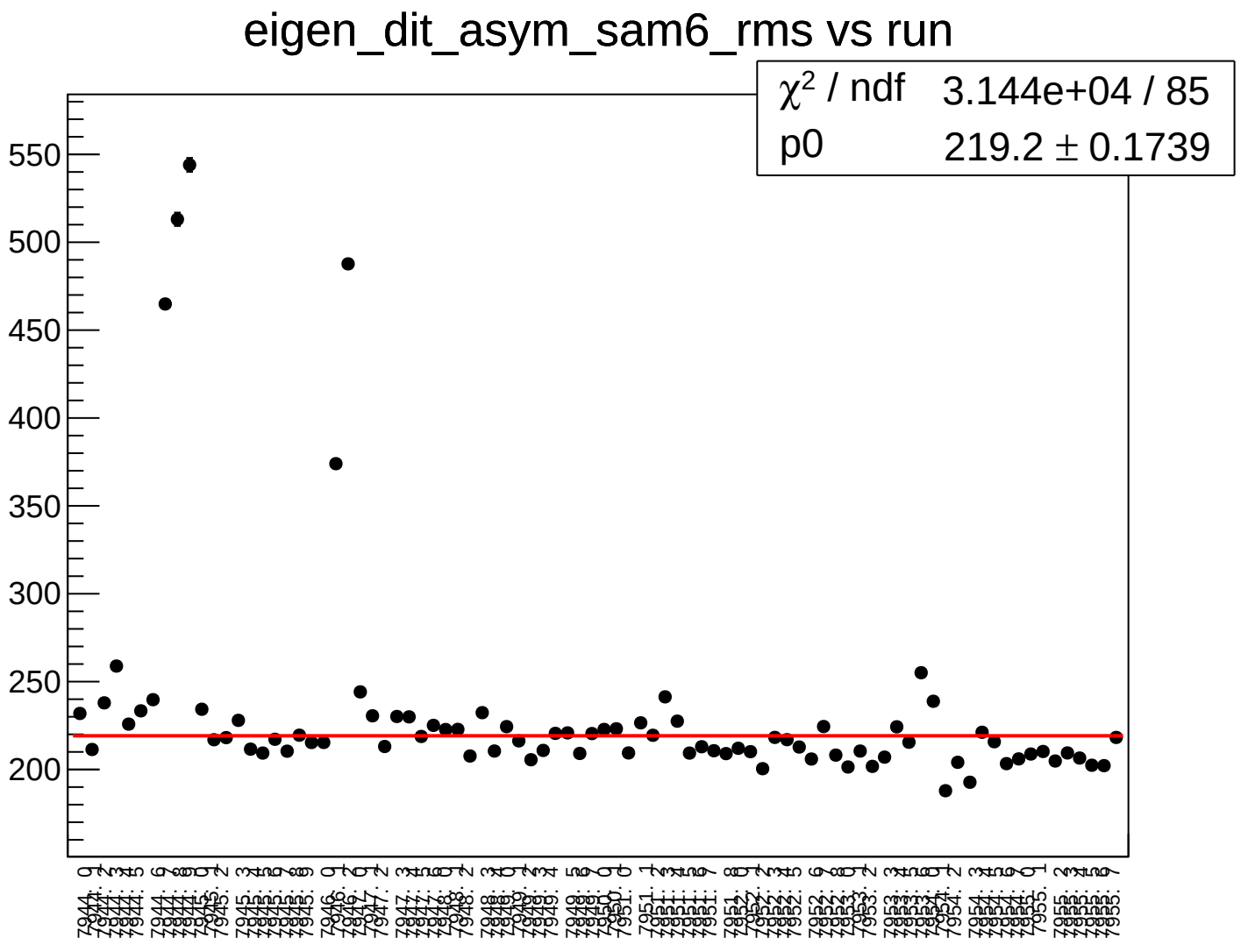

asym_sam6_dit_correction_mean vs run
χ² / ndf 90.25 / 85
p0 −1345 ± 2084
pull
Entries 86
Mean 204
Std Dev 0

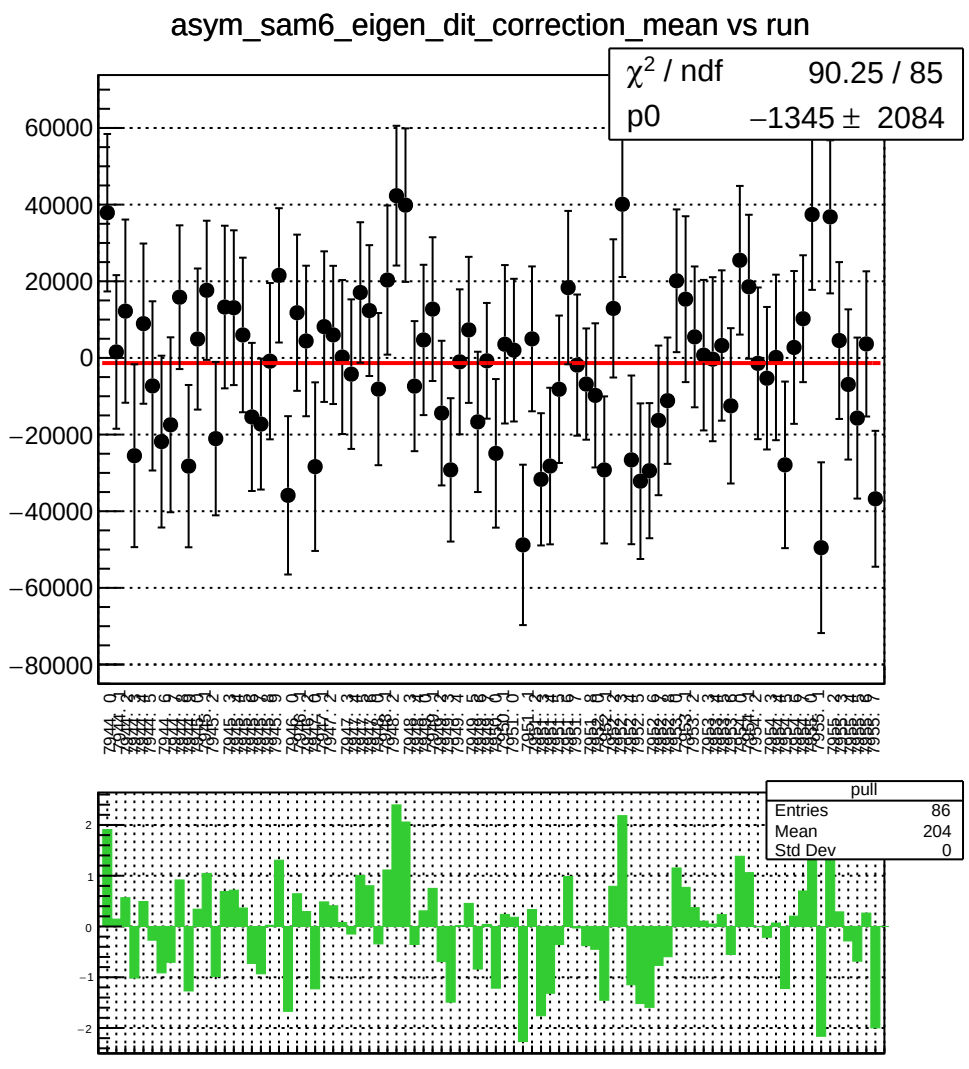

pull1D
Entries 86
Mean −0.01077
Std Dev 1.024

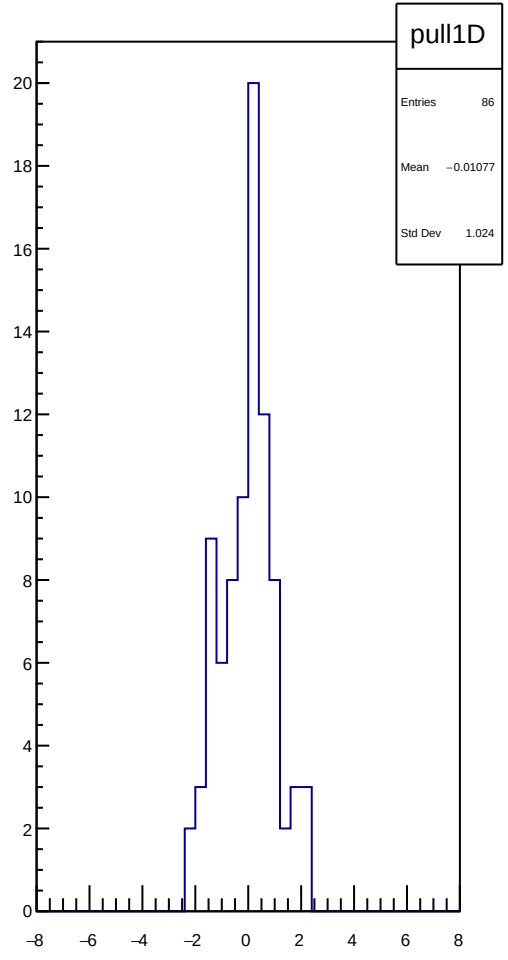

asym_sam6_dit_correction_rms vs run
χ² / ndf 7509 / 85
p0 1870 ± 1.473
2300
2200
2100
2000
1900
1800
1700
1600

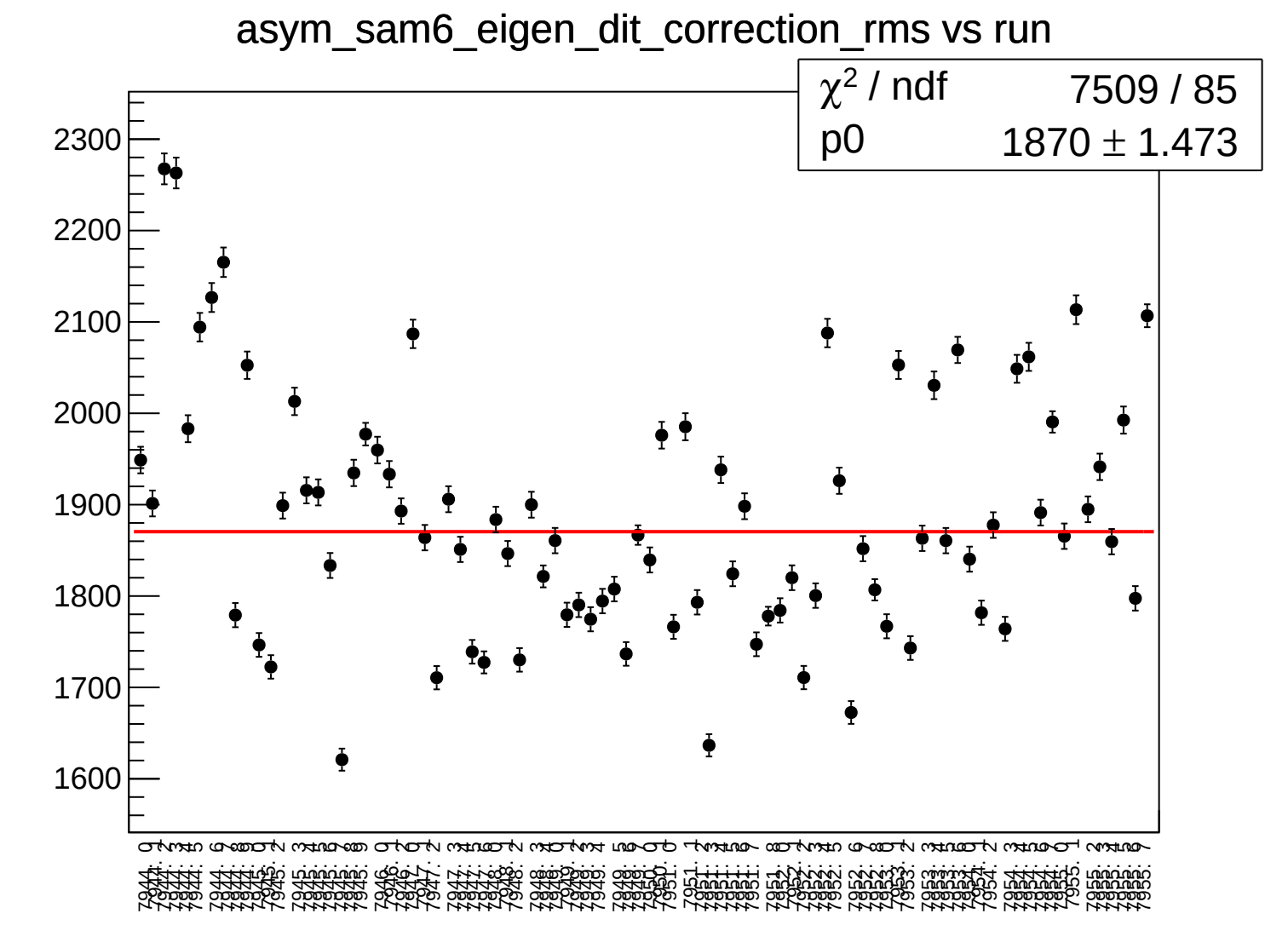

eigen_dit_asym_sam6_mean vs run
χ² / ndf 81.76 / 85
p0 237.1 ± 246
pull
Entries 86
Mean 63.29
Std Dev 35.43

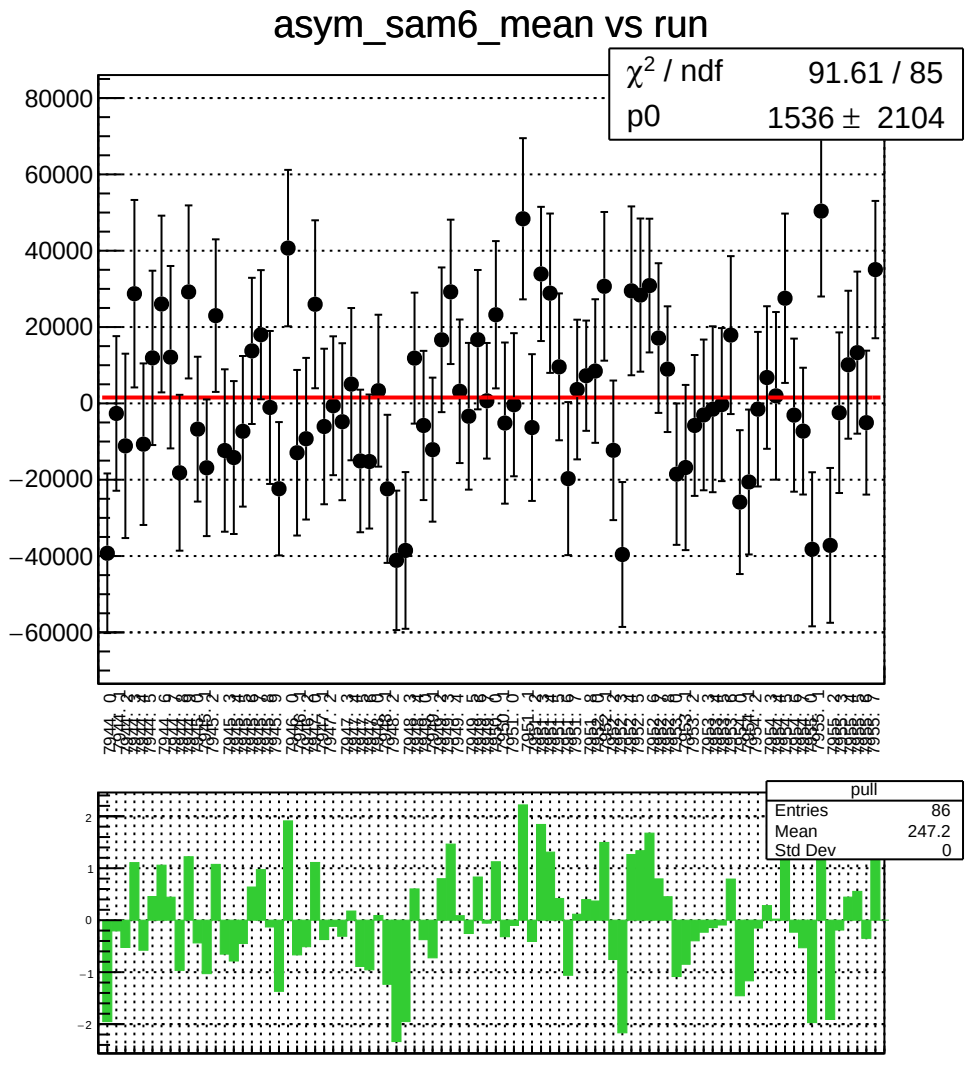

pull1D
Entries 86
Mean −0.01378
Std Dev 0.9749

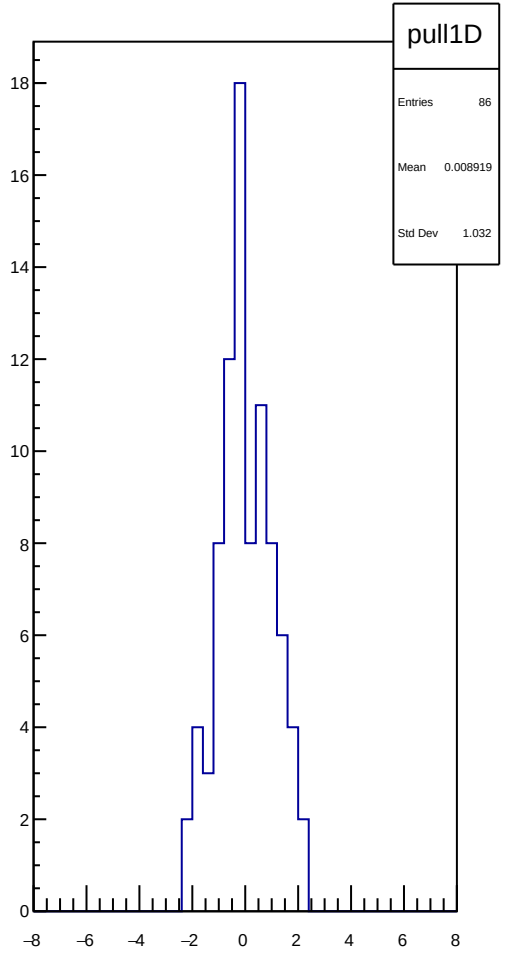

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 3.144e+04 / 85
p0 219.2 ± 0.1739
550
500
450
400
350
300
250
200

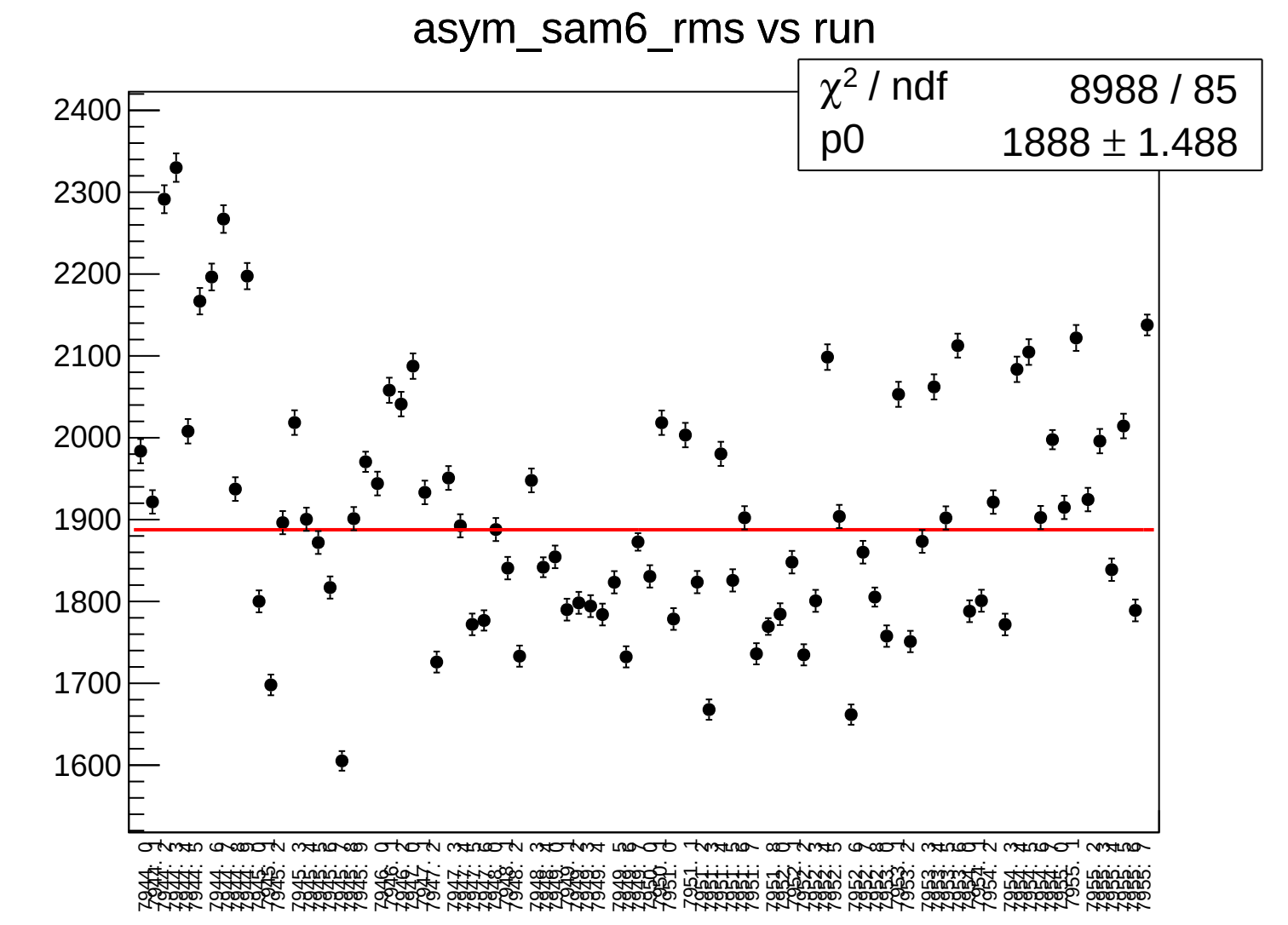

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 90.25 / 85
p0 −1345 ± 2084
pull
Entries 86
Mean 204
Std Dev 0

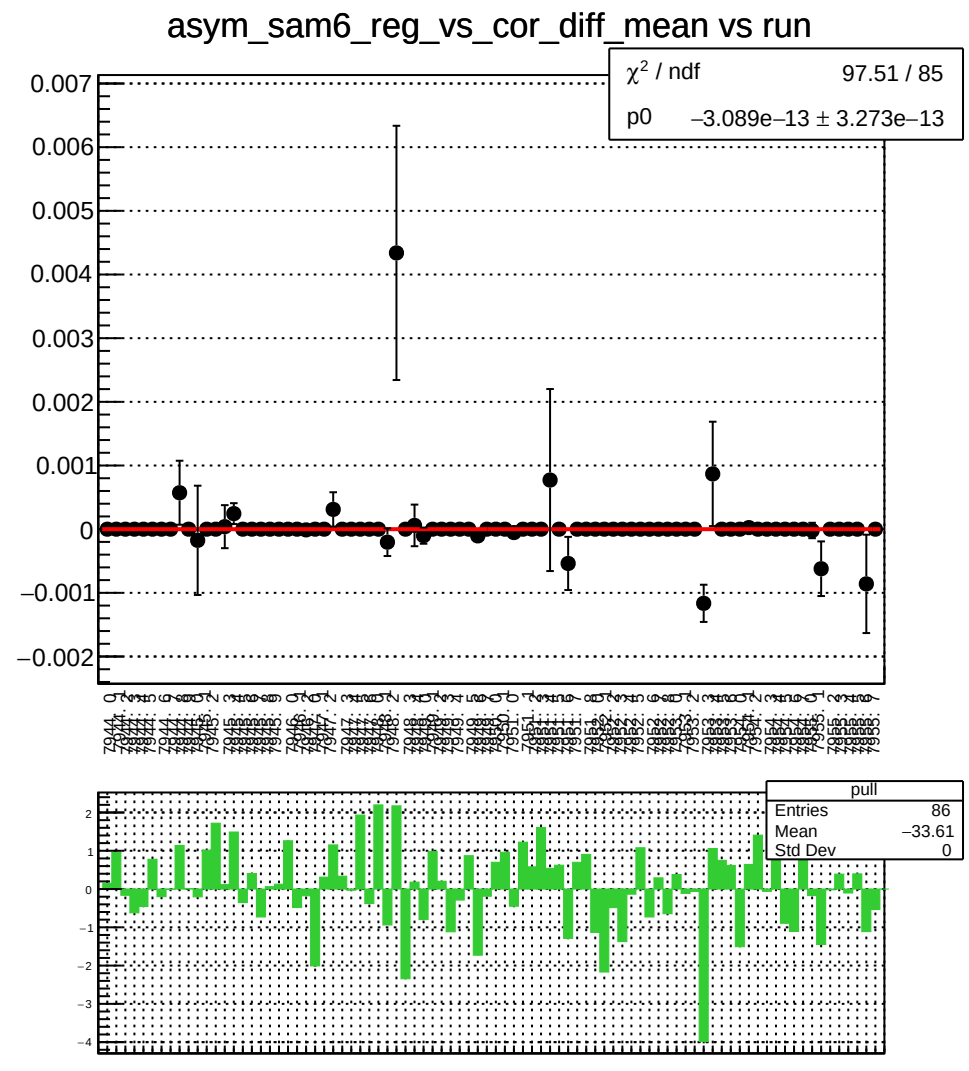

pull1D
Entries 86
Mean −0.01077
Std Dev 1.024

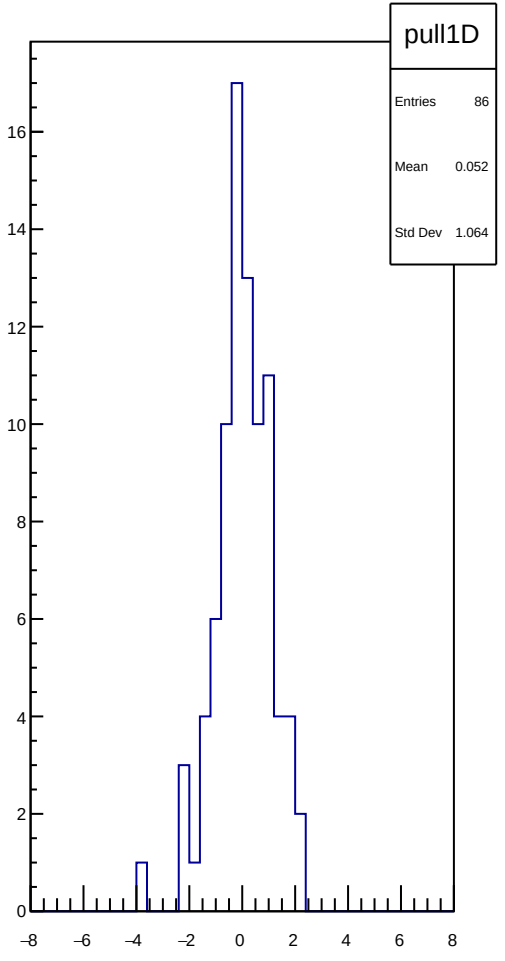

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 7509 / 85
p0 1870 ± 1.473
2300
2200
2100
2000
1900
1800
1700
1600

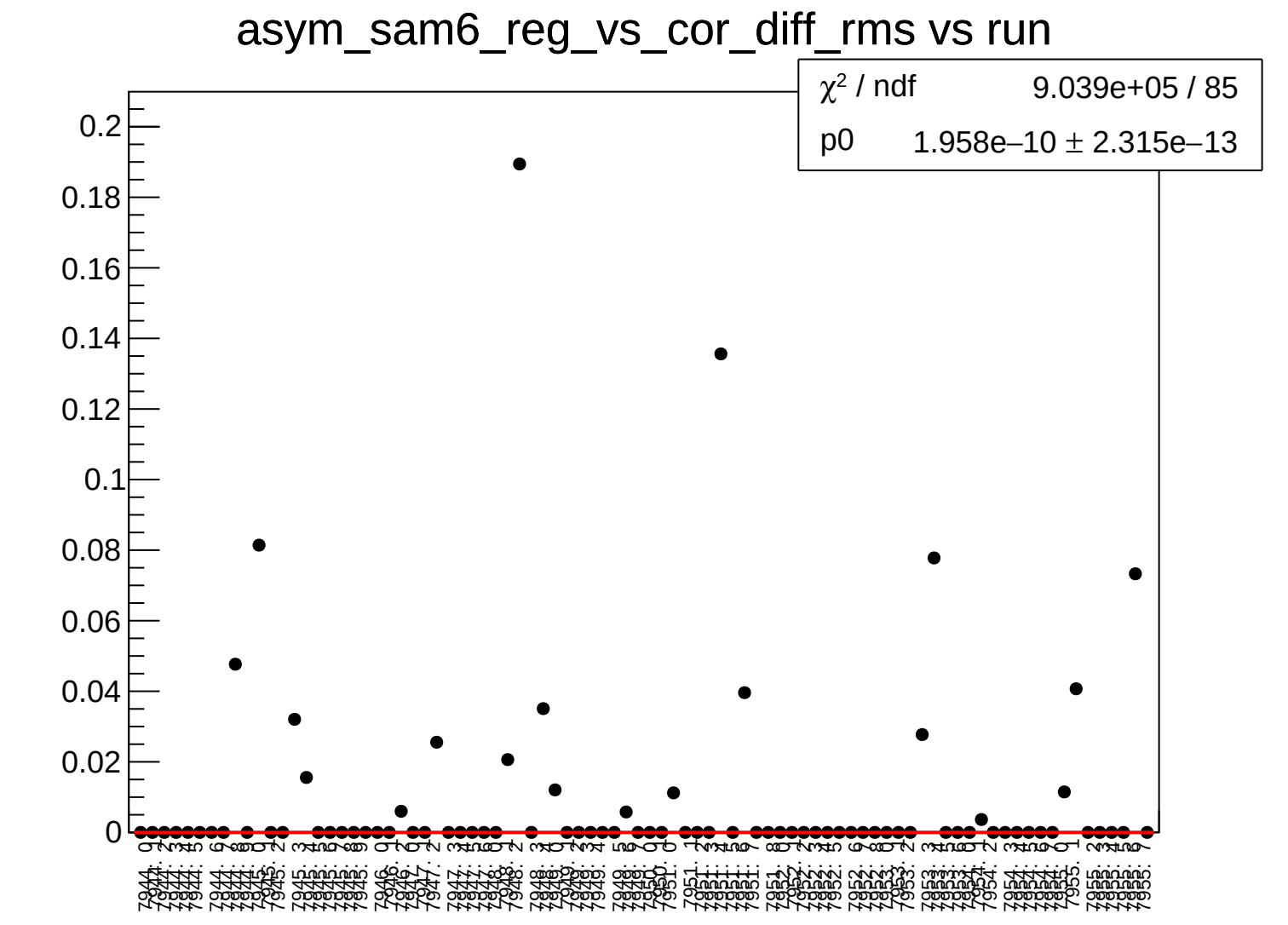

asym_sam6_mean vs run
χ² / ndf 91.61 / 85
p0 1536 ± 2104
pull
Entries 86
Mean 247.2
Std Dev 0

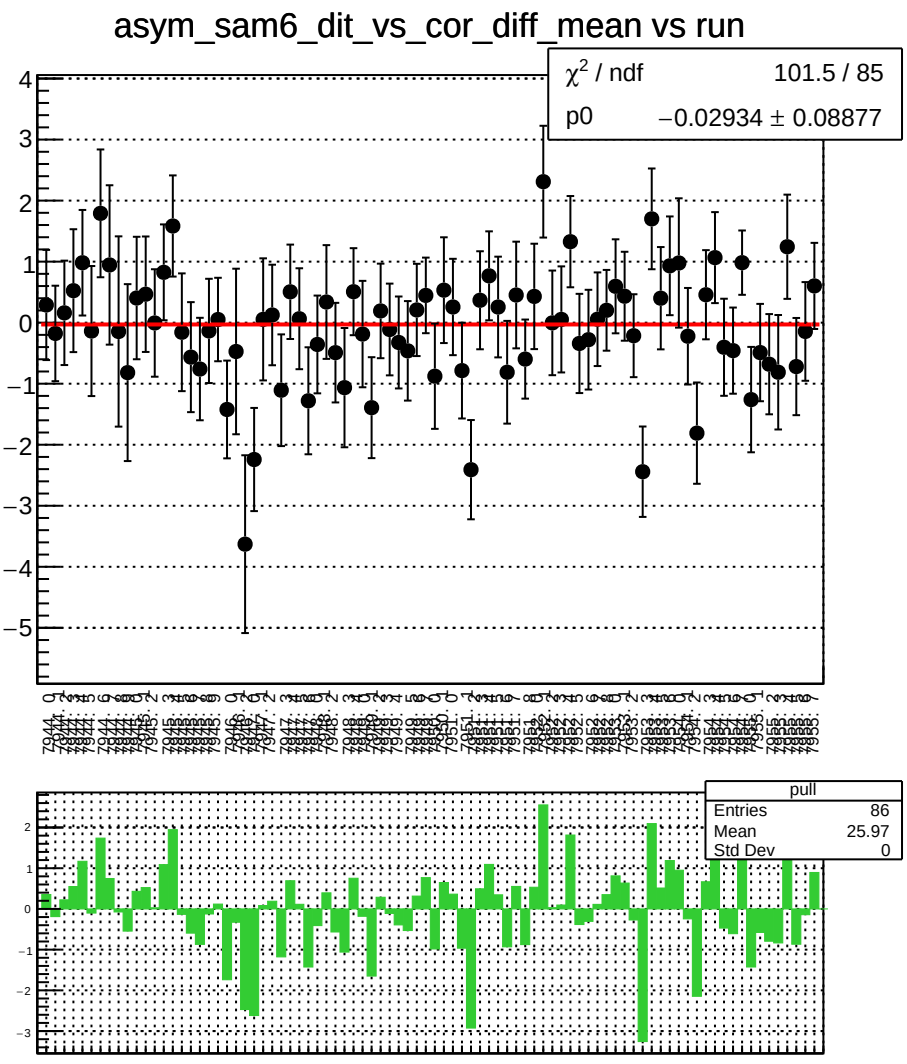

pull1D
Entries 86
Mean 0.008919
Std Dev 1.032

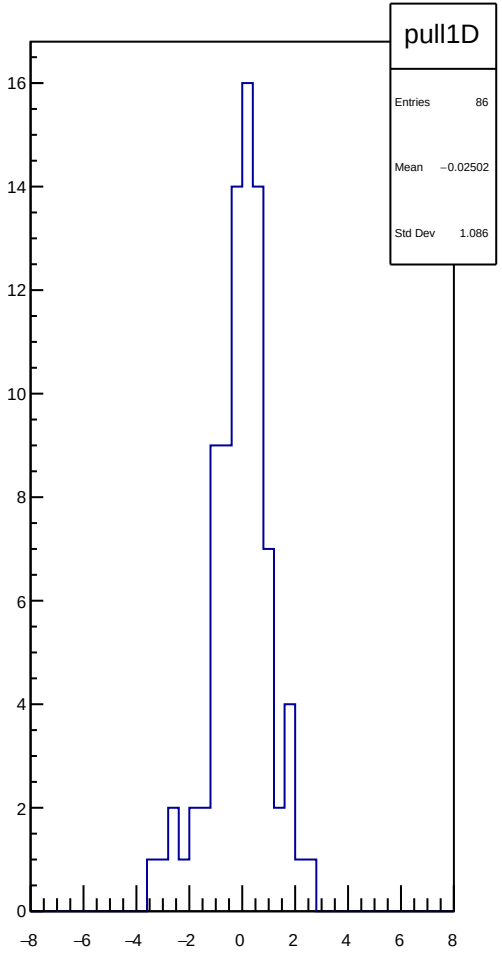

asym_sam6_rms vs run
χ^2 / ndf 8988 / 85
p0 1888 ± 1.488
2400
2300
2200
2100
2000
1900
1800
1700
1600

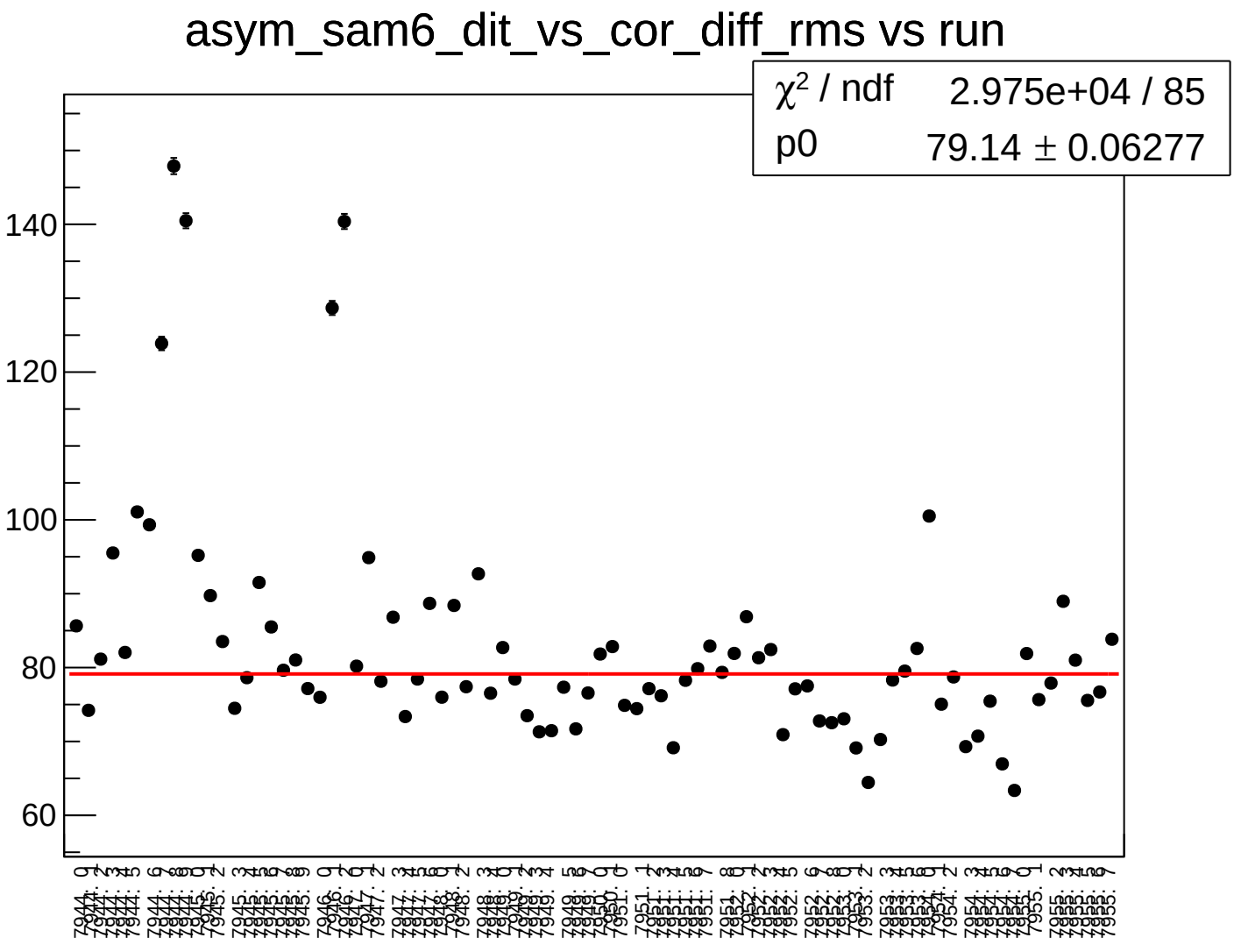

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 97.51 / 85
p0 −3.089e−13 ± 3.273e−13
pull
Entries 86
Mean −33.61
Std Dev 0

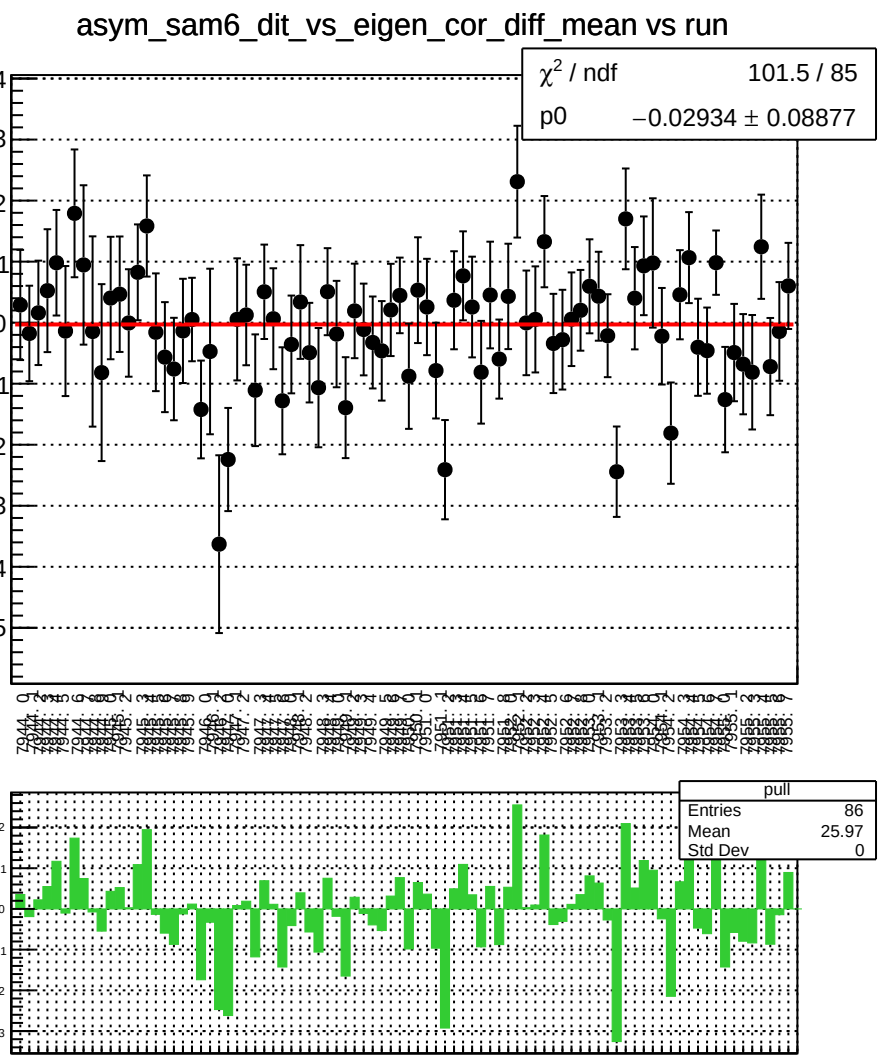

pull1D
Entries 86
Mean 0.052
Std Dev 1.064

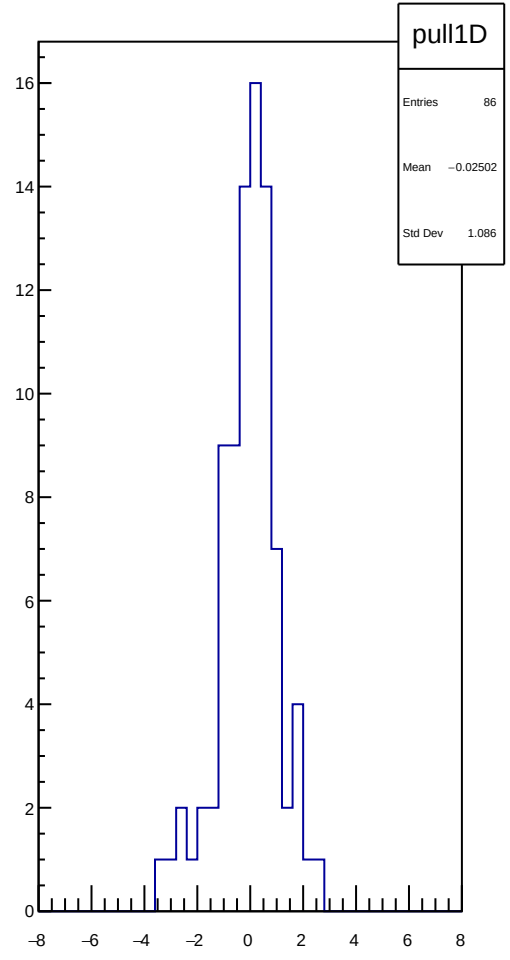

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 9.039e+05 / 85
p0 1.958e−10 ± 2.315e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

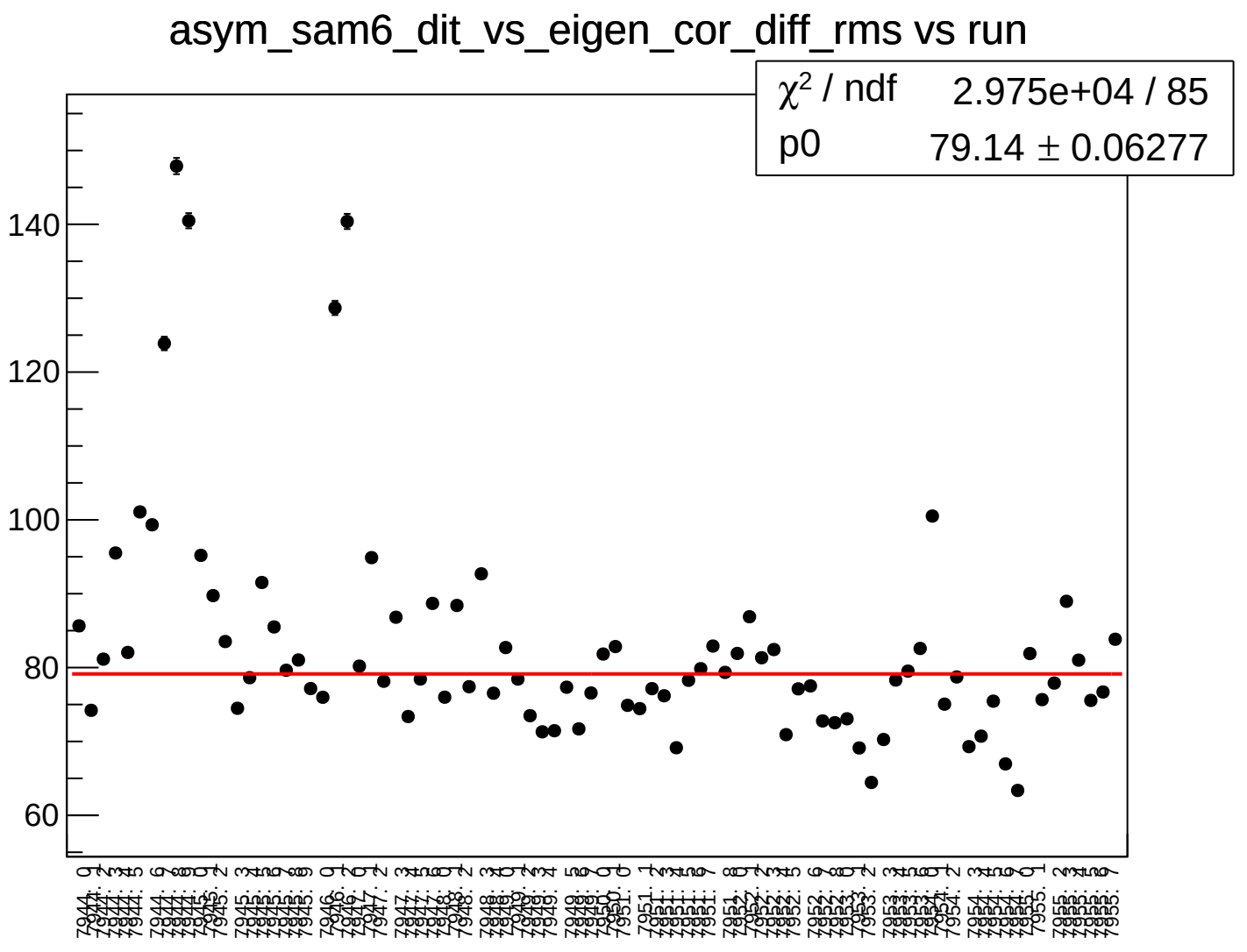

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 85
p0 −0.02934 ± 0.08877
pull
Entries 86
Mean 25.97
Std Dev 0

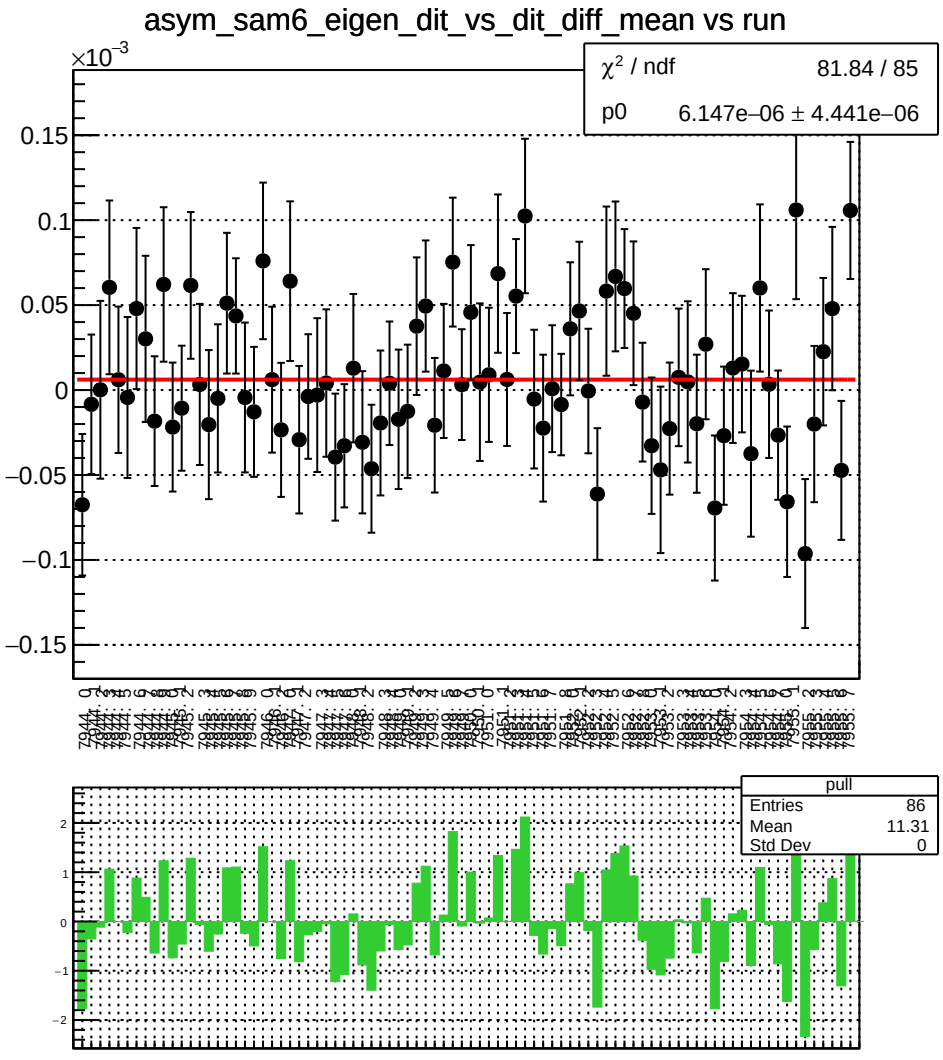

pull1D
Entries 86
Mean −0.02502
Std Dev 1.086

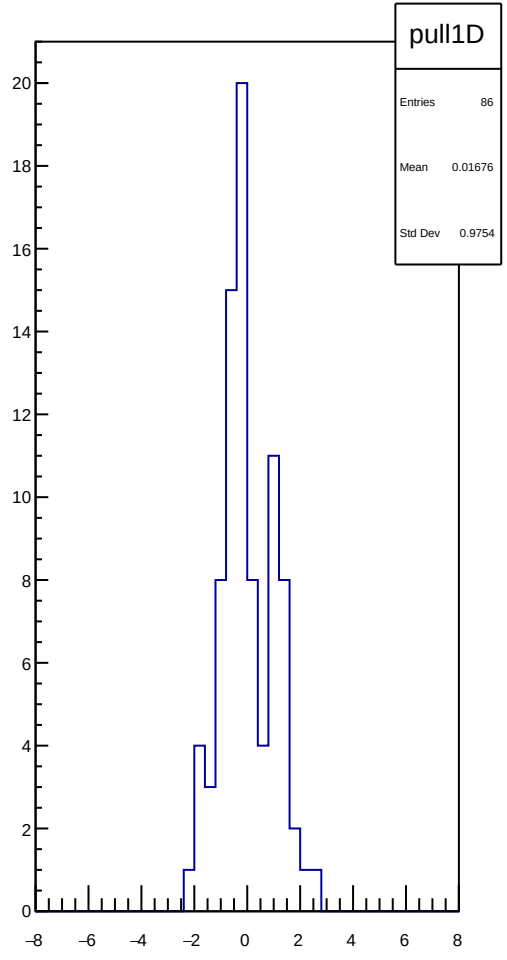

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 2.975e+04 / 85
p0 79.14 ± 0.06277
140
120
100
80
60

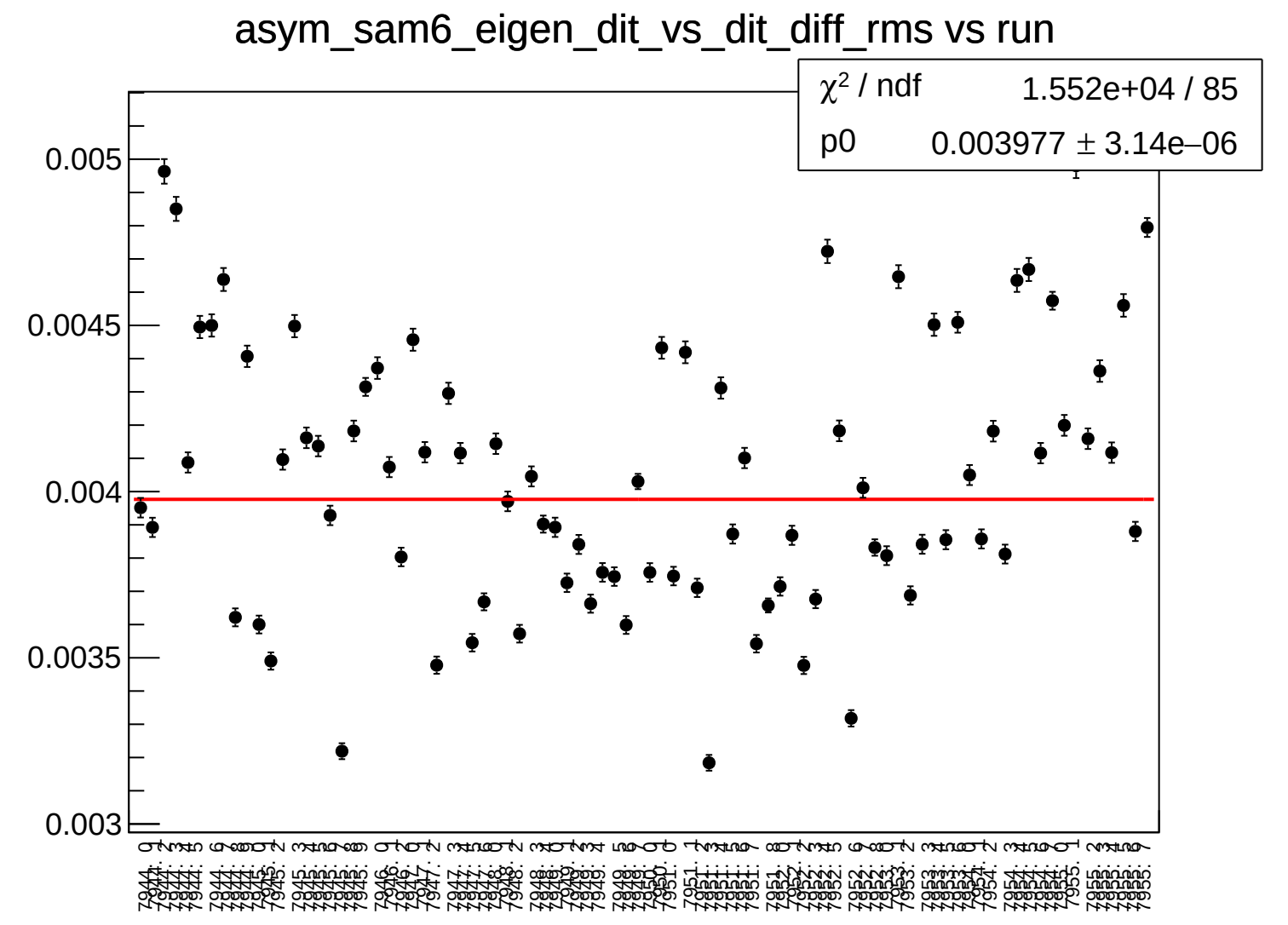

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 85
p0 −0.02934 ± 0.08877
pull
Entries 86
Mean 25.97
Std Dev 0

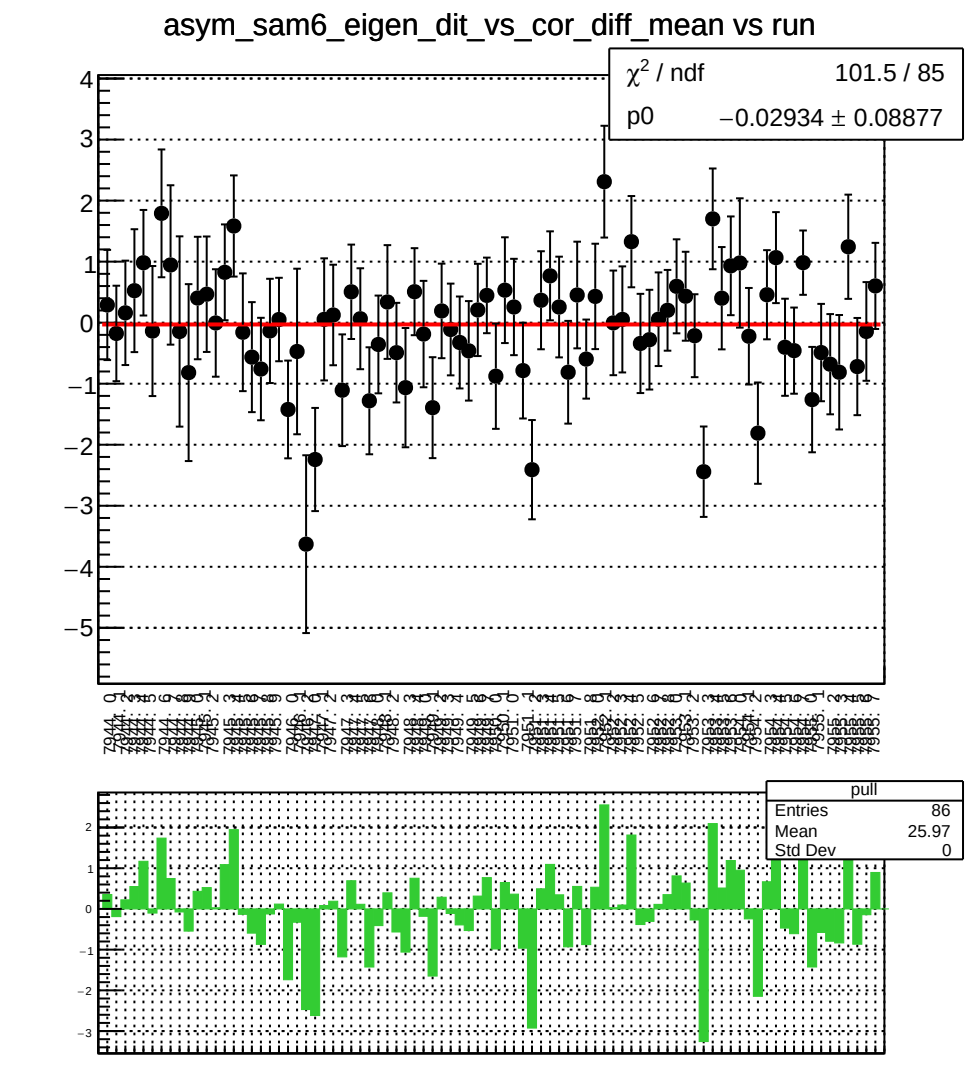

pull1D
Entries 86
Mean −0.02502
Std Dev 1.086

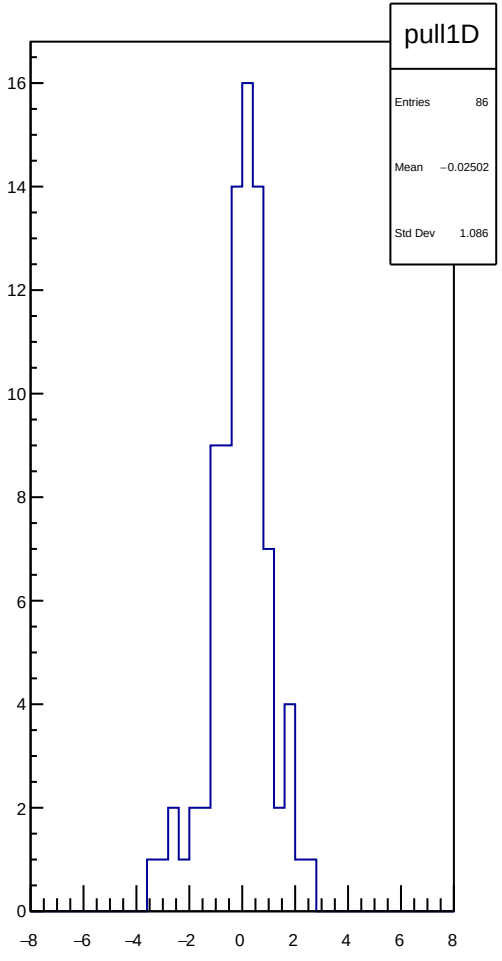

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.975e+04 / 85
p0 79.14 ± 0.06277
140
120
100
80
60

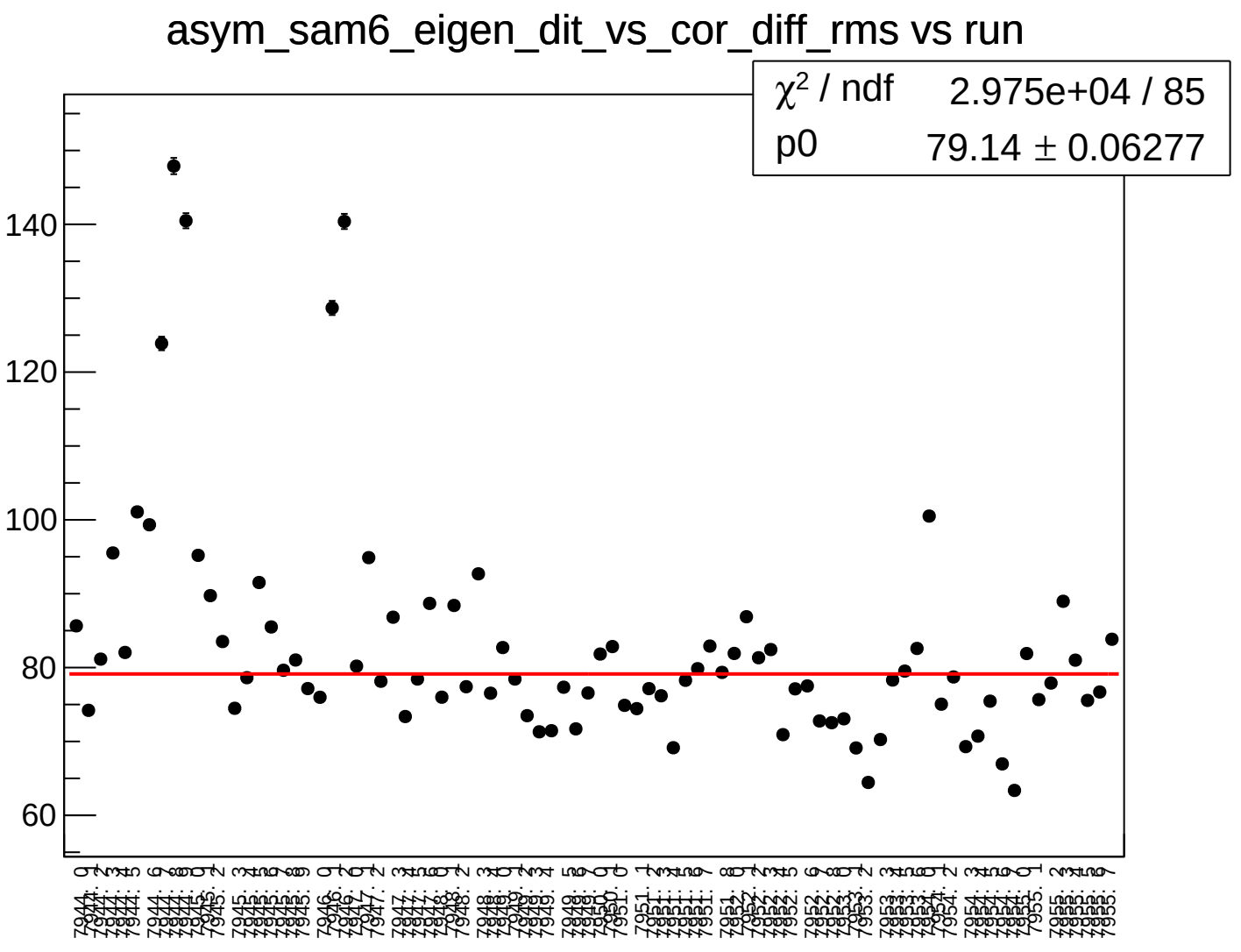

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.84 / 85
p0 6.147e−06 ± 4.441e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 11.31
Std Dev 0
2
1
0
−1
−2

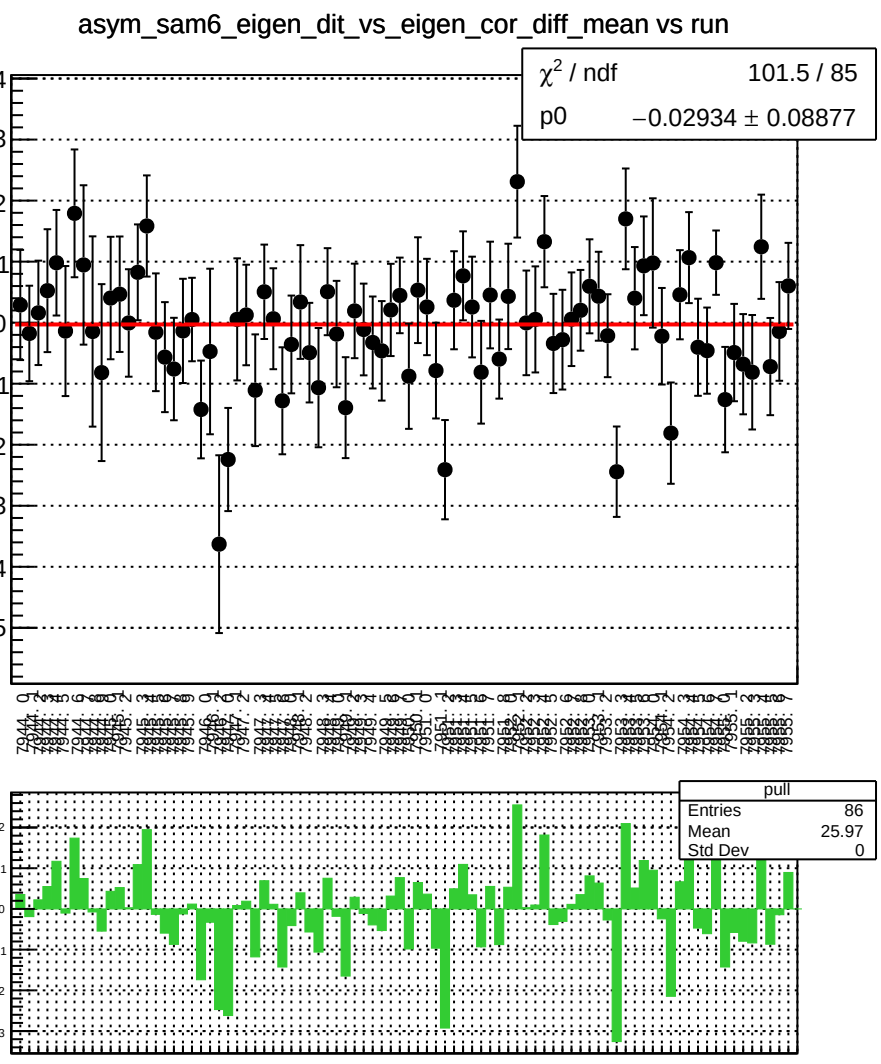

pull1D
Entries 86
Mean 0.01676
Std Dev 0.9754
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

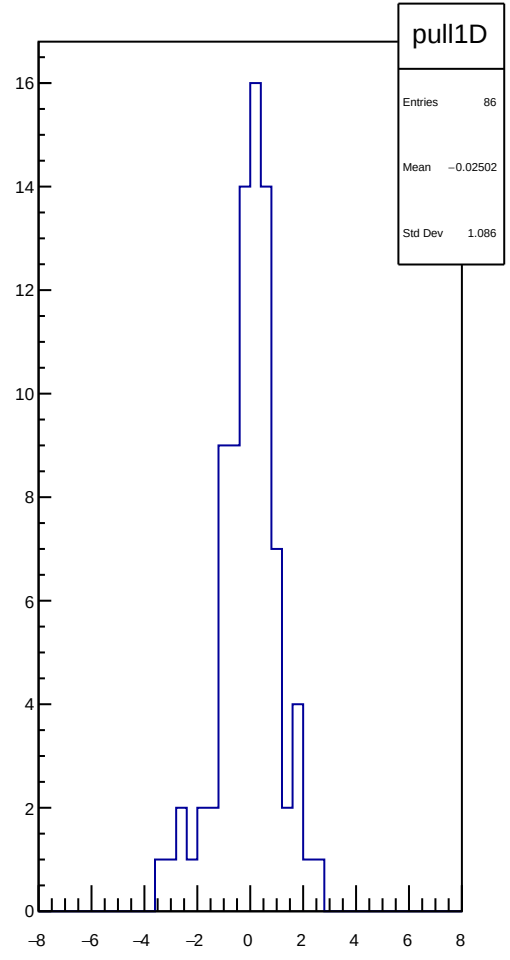

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.552e+04 / 85
p0 0.003977 ± 3.14e−06
0.005
0.0045
0.004
0.0035
0.003

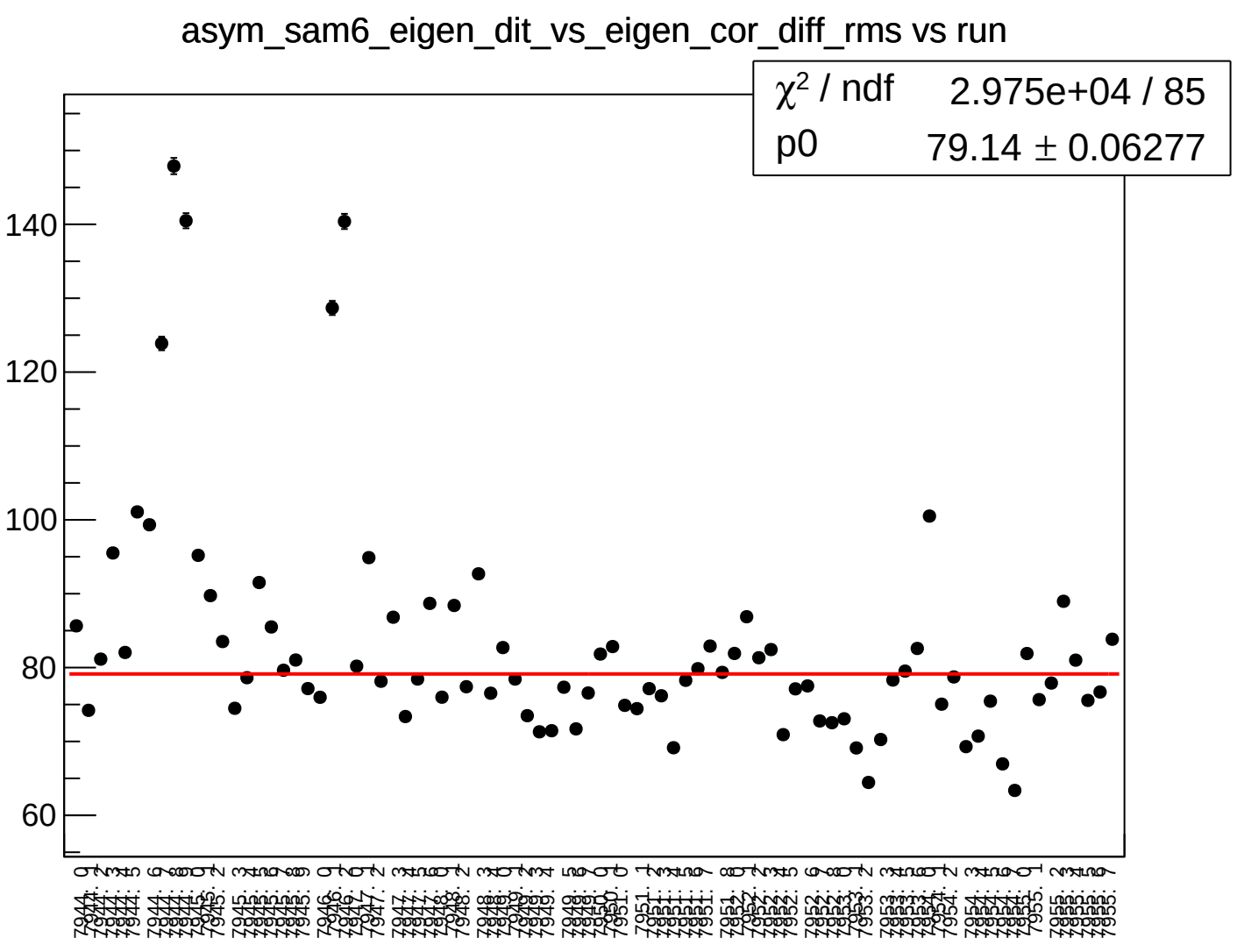

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 85
p0 −0.02934 ± 0.08877
pull
Entries 86
Mean 25.97
Std Dev 0

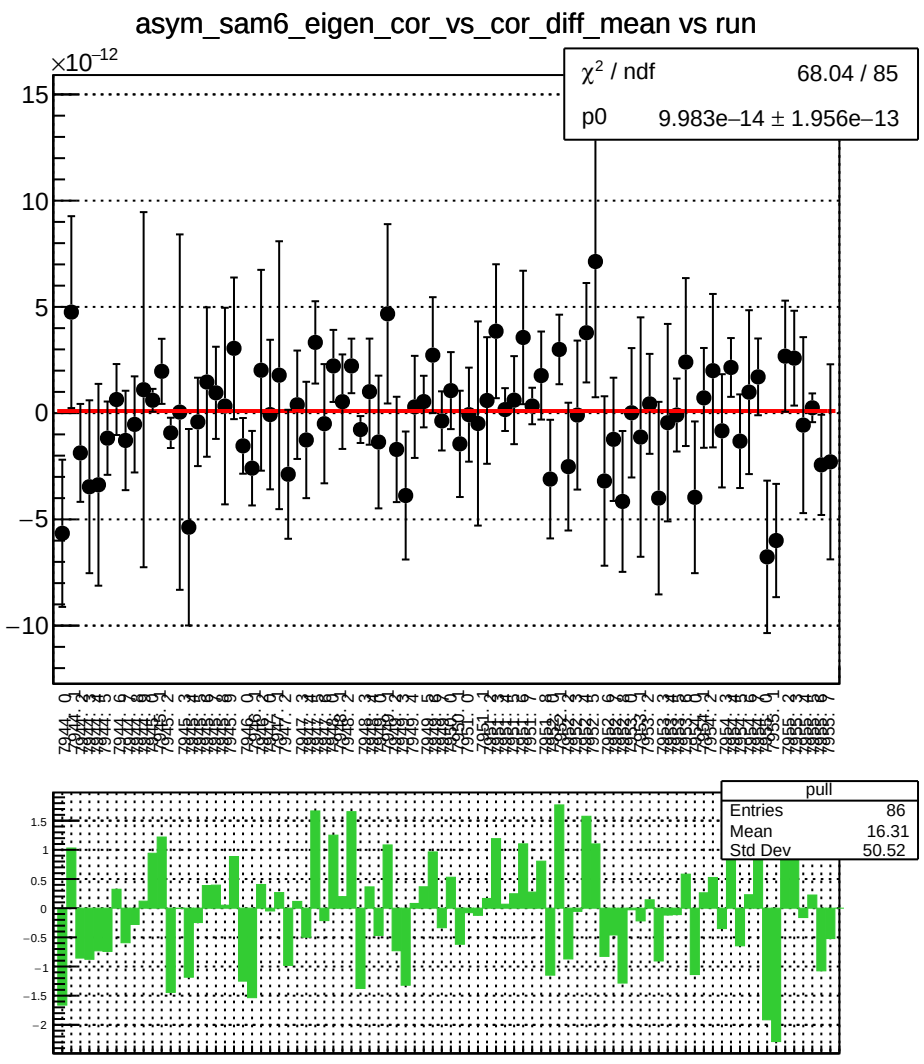

pull1D
Entries 86
Mean −0.02502
Std Dev 1.086

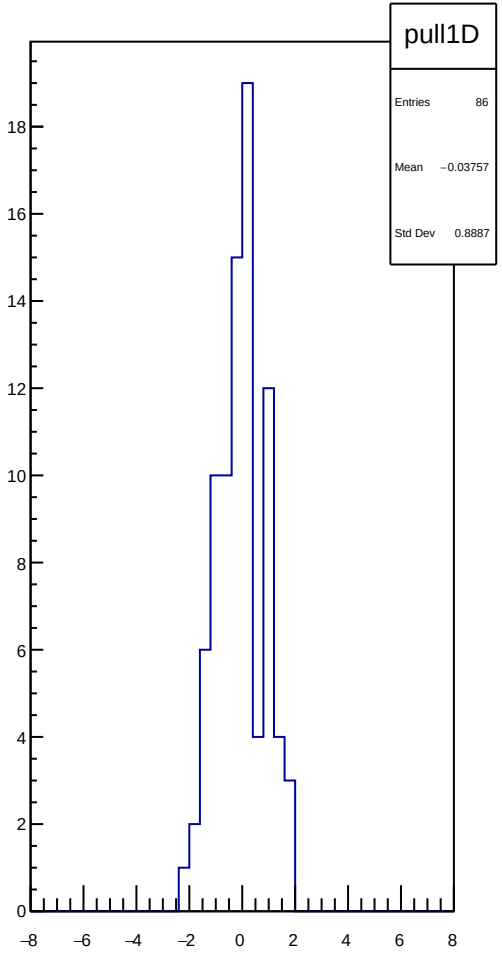

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.975e+04 / 85
p0 79.14 ± 0.06277
140
120
100
80
60

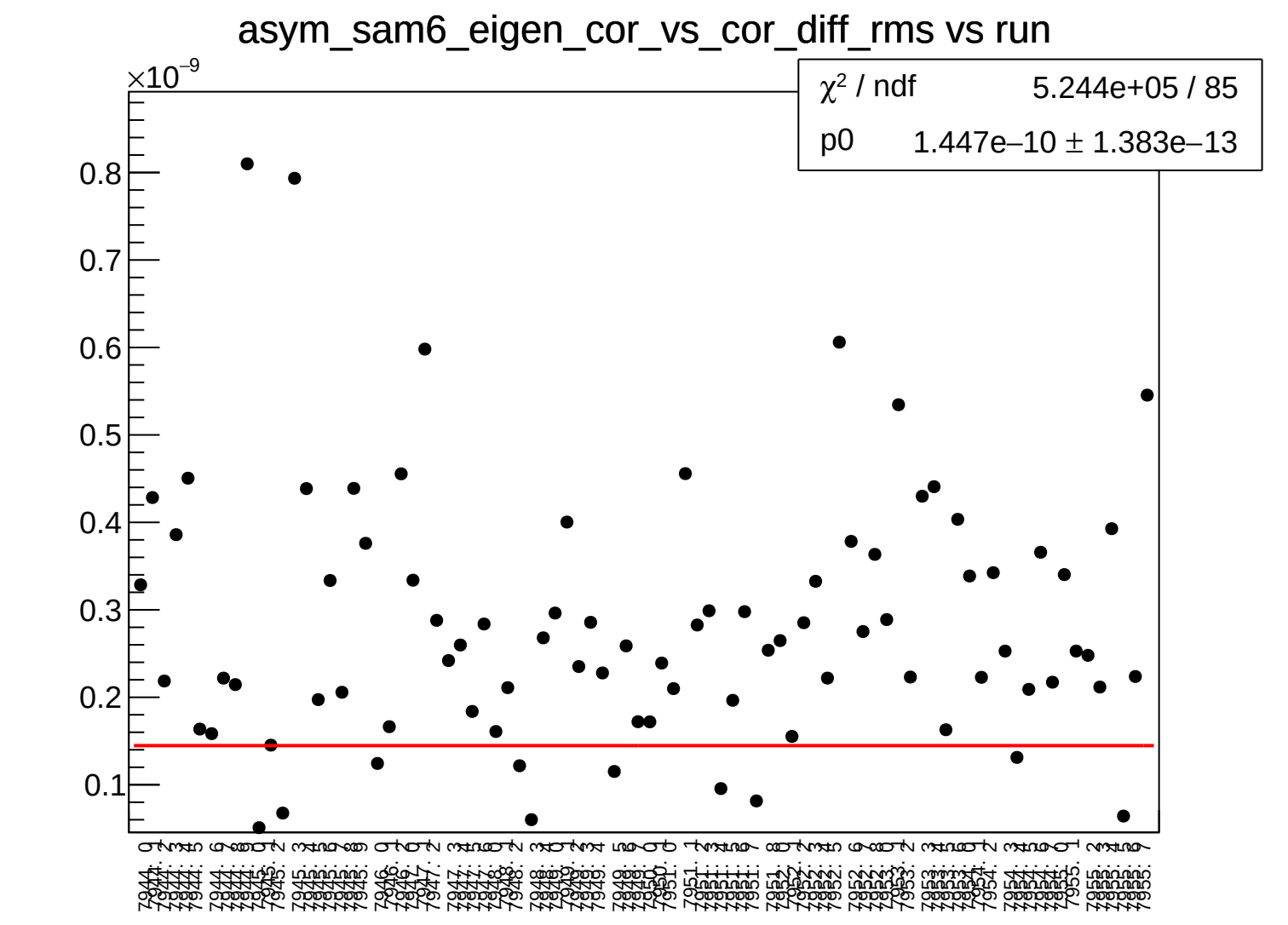

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 85
p0 −0.02934 ± 0.08877
pull
Entries 86
Mean 25.97
Std Dev 0

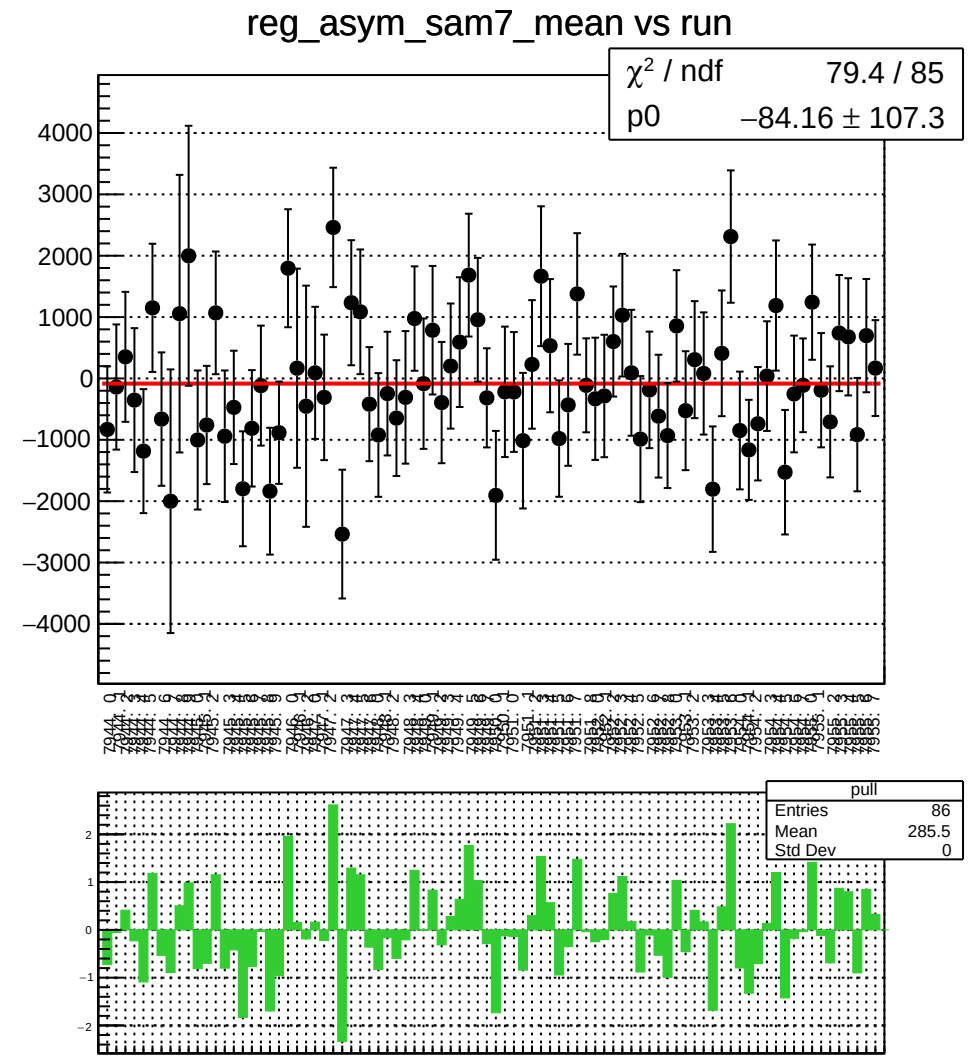

pull1D
Entries 86
Mean −0.02502
Std Dev 1.086

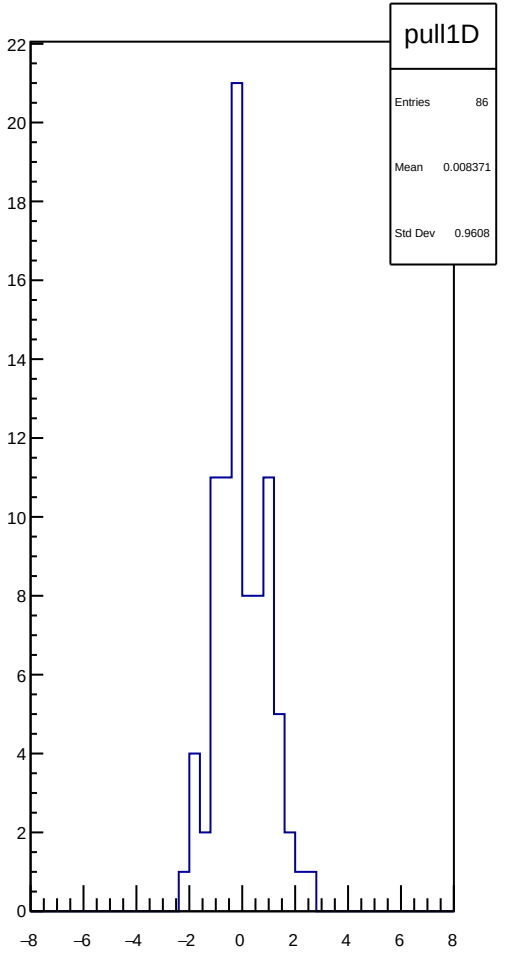

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.975e+04 / 85
p0 79.14 ± 0.06277
140
120
100
80
60

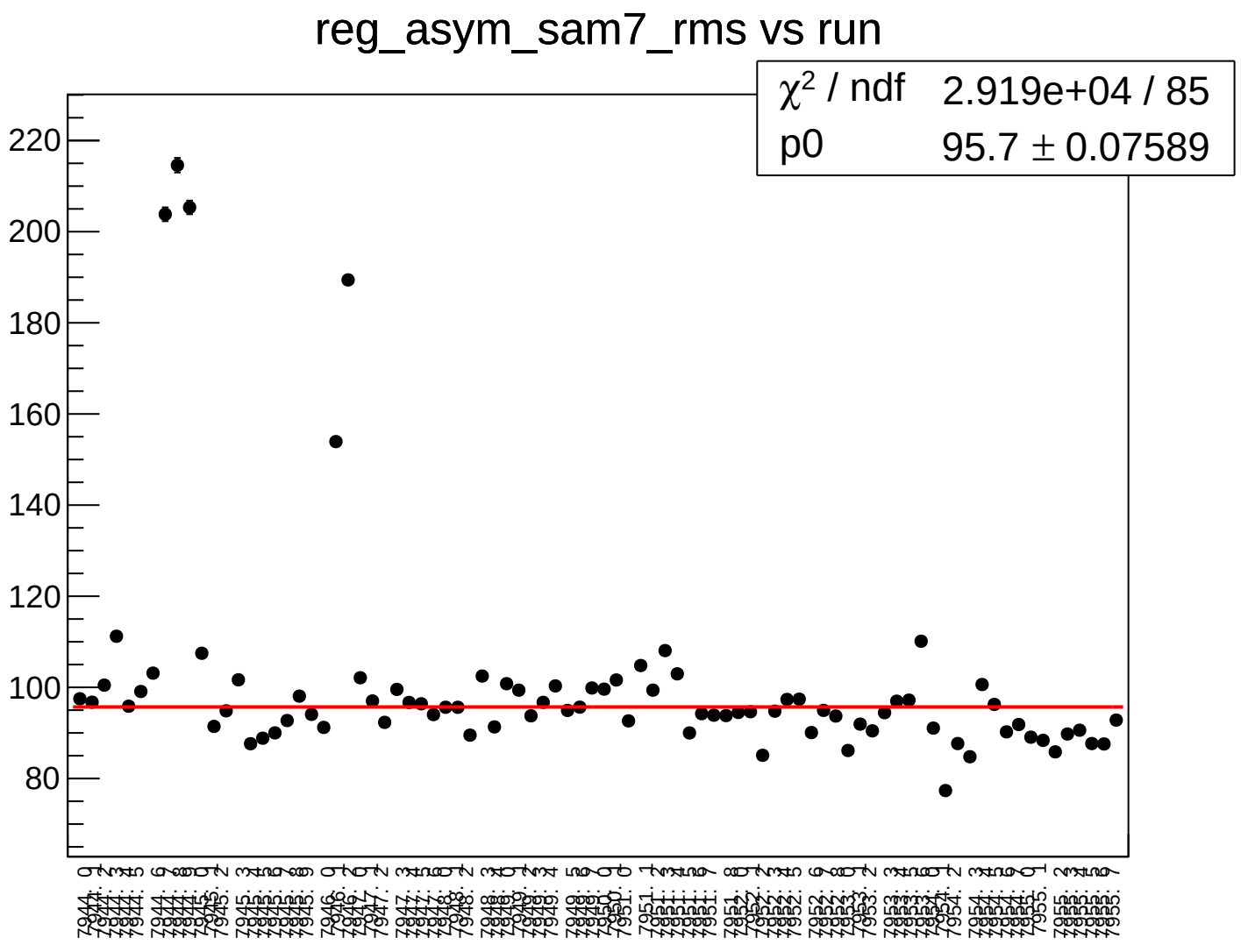

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.04 / 85
p0 9.983e−14 ± 1.956e−13
pull
Entries 86
Mean 16.31
Std Dev 50.52

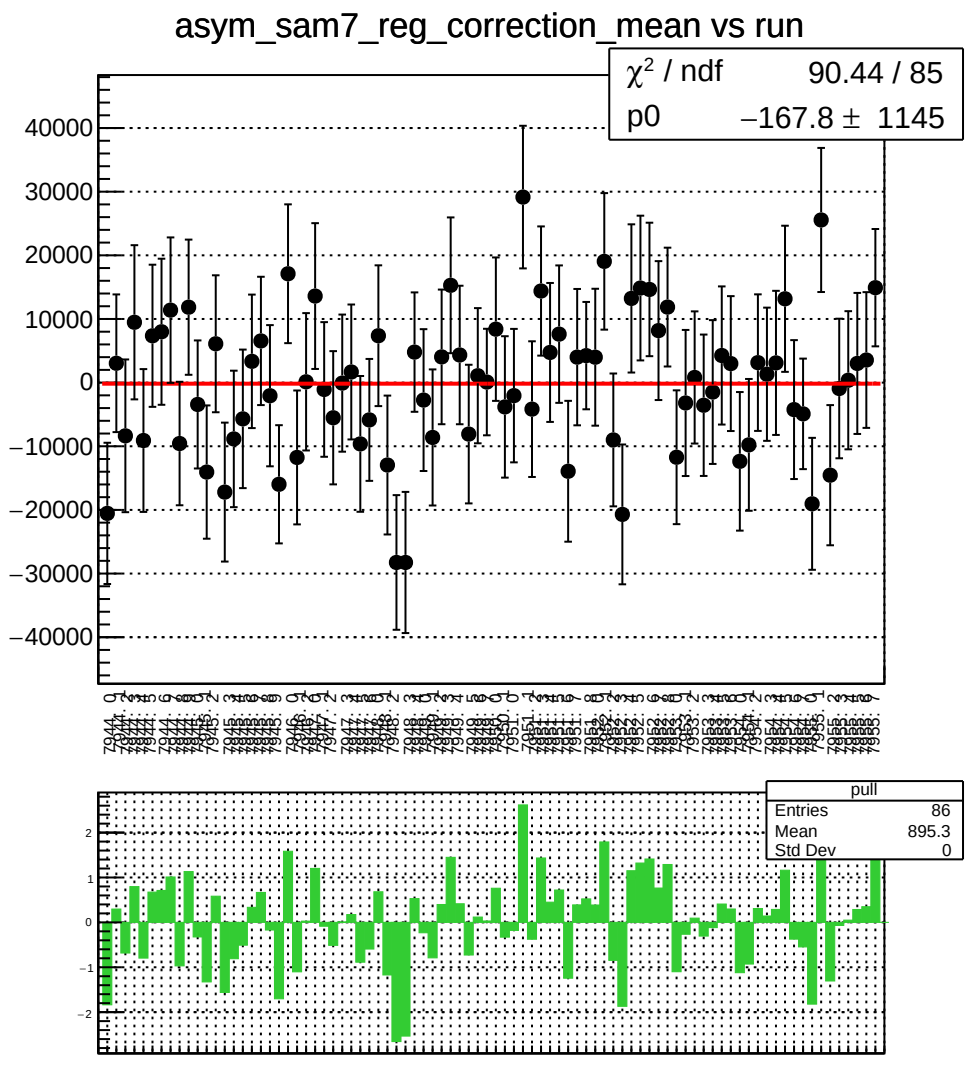

pull1D
Entries 86
Mean −0.03757
Std Dev 0.8887

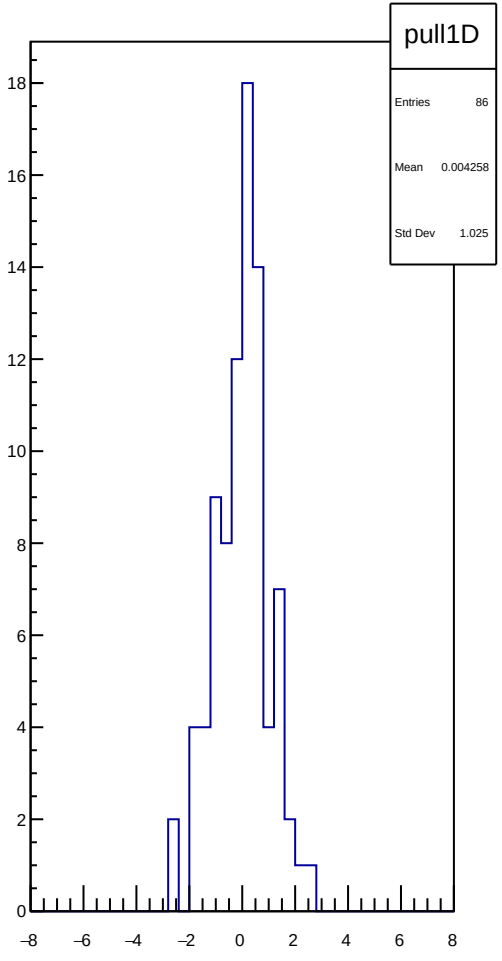

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.244e+05 / 85
p0 1.447e−10 ± 1.383e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

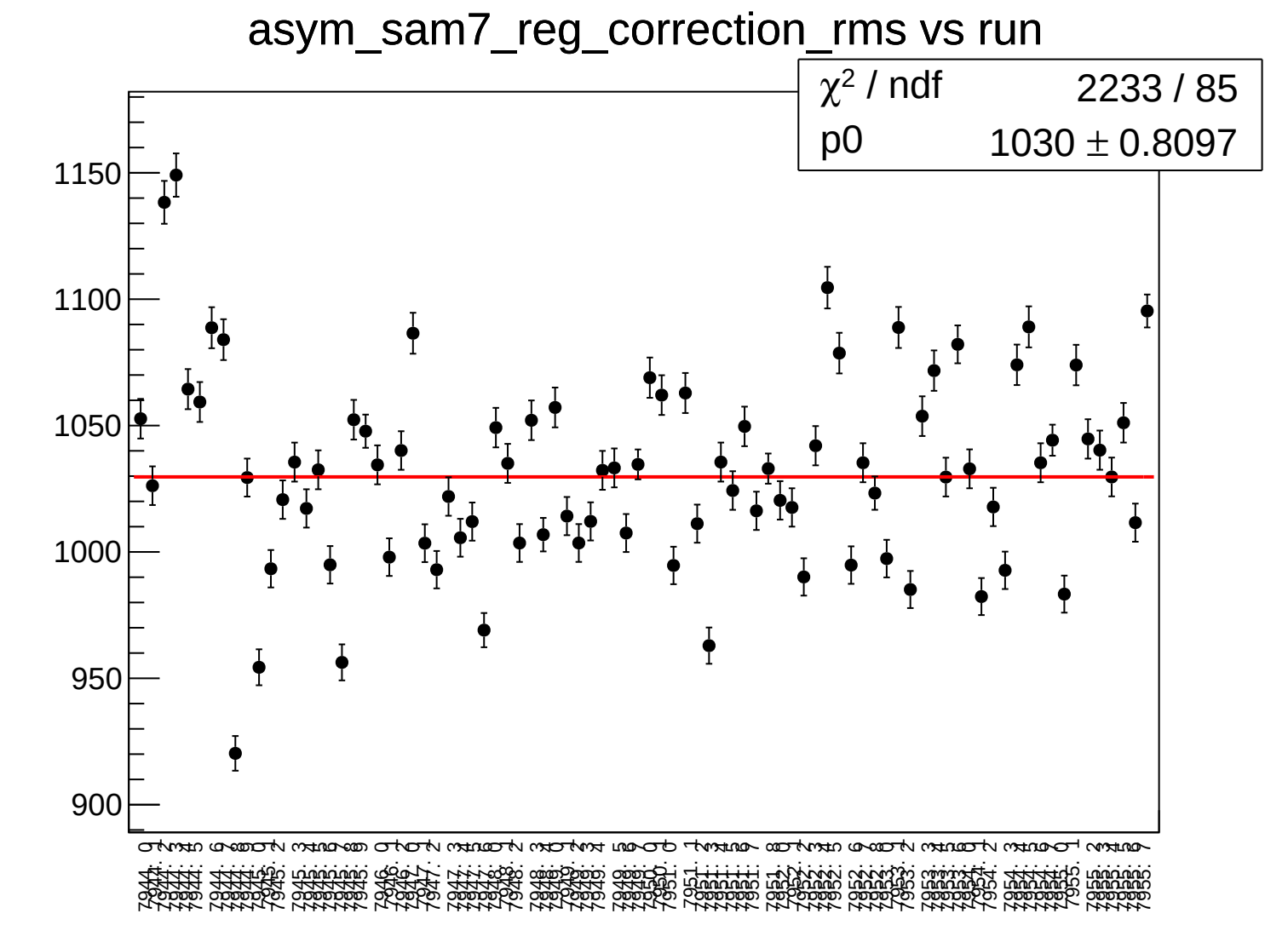

reg_asym_sam7_mean vs run
χ² / ndf 79.4 / 85
p0 −84.16 ± 107.3
pull
Entries 86
Mean 285.5
Std Dev 0

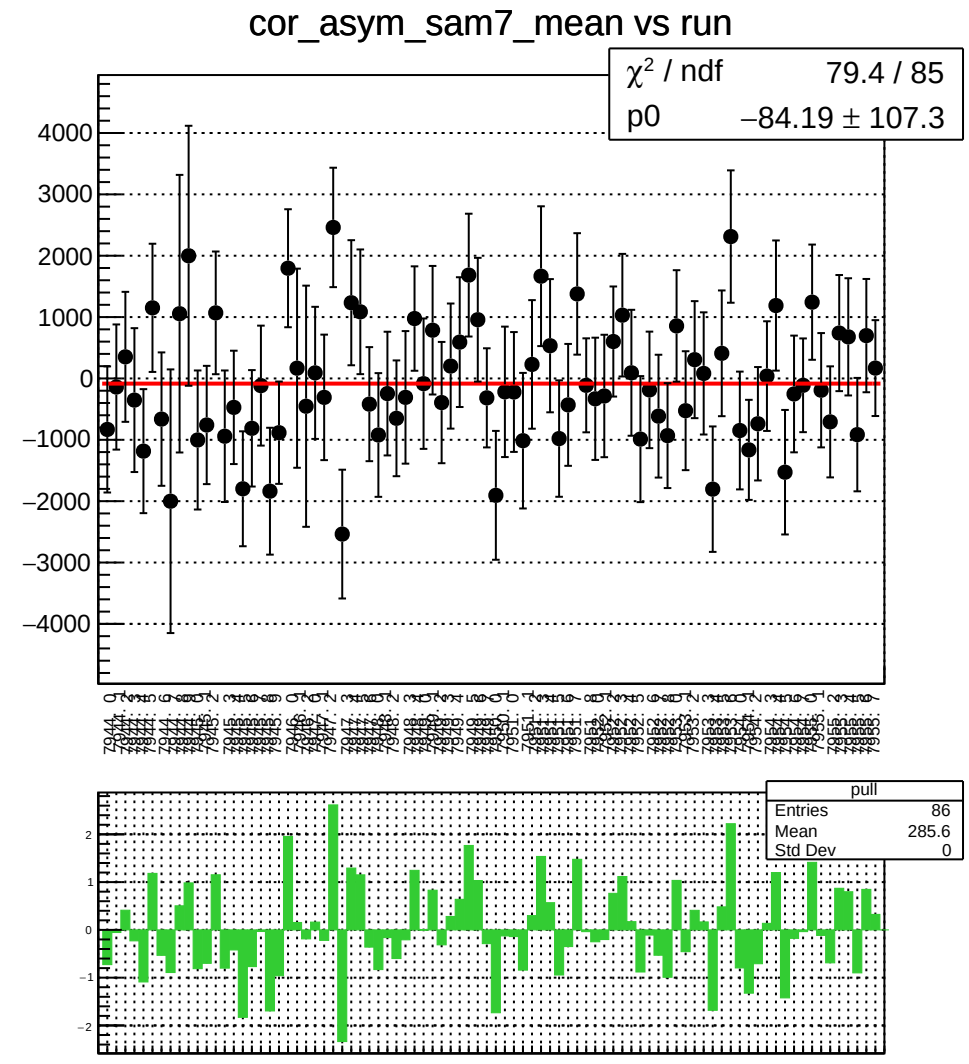

pull1D
Entries 86
Mean 0.008371
Std Dev 0.9608

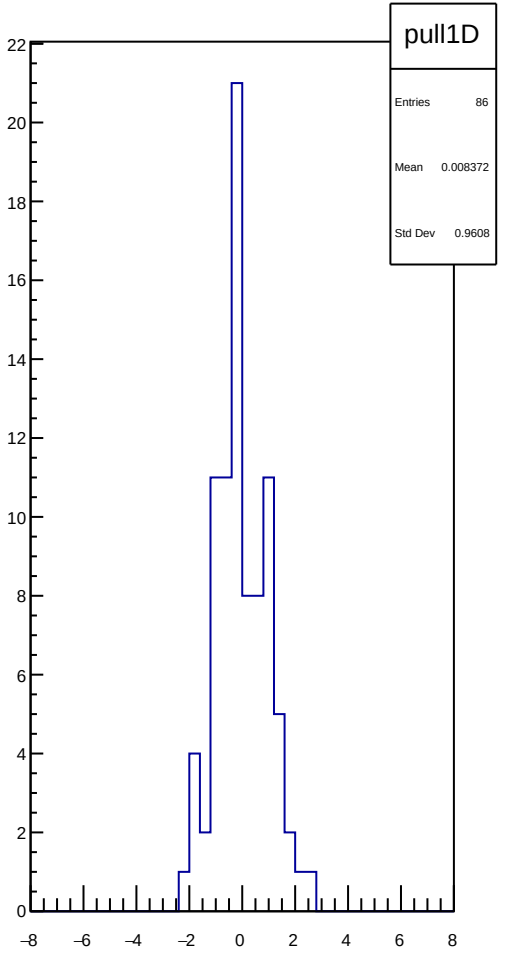

reg_asym_sam7_rms vs run
χ^2 / ndf 2.919e+04 / 85
p0 95.7 ± 0.07589
220
200
180
160
140
120
100
80

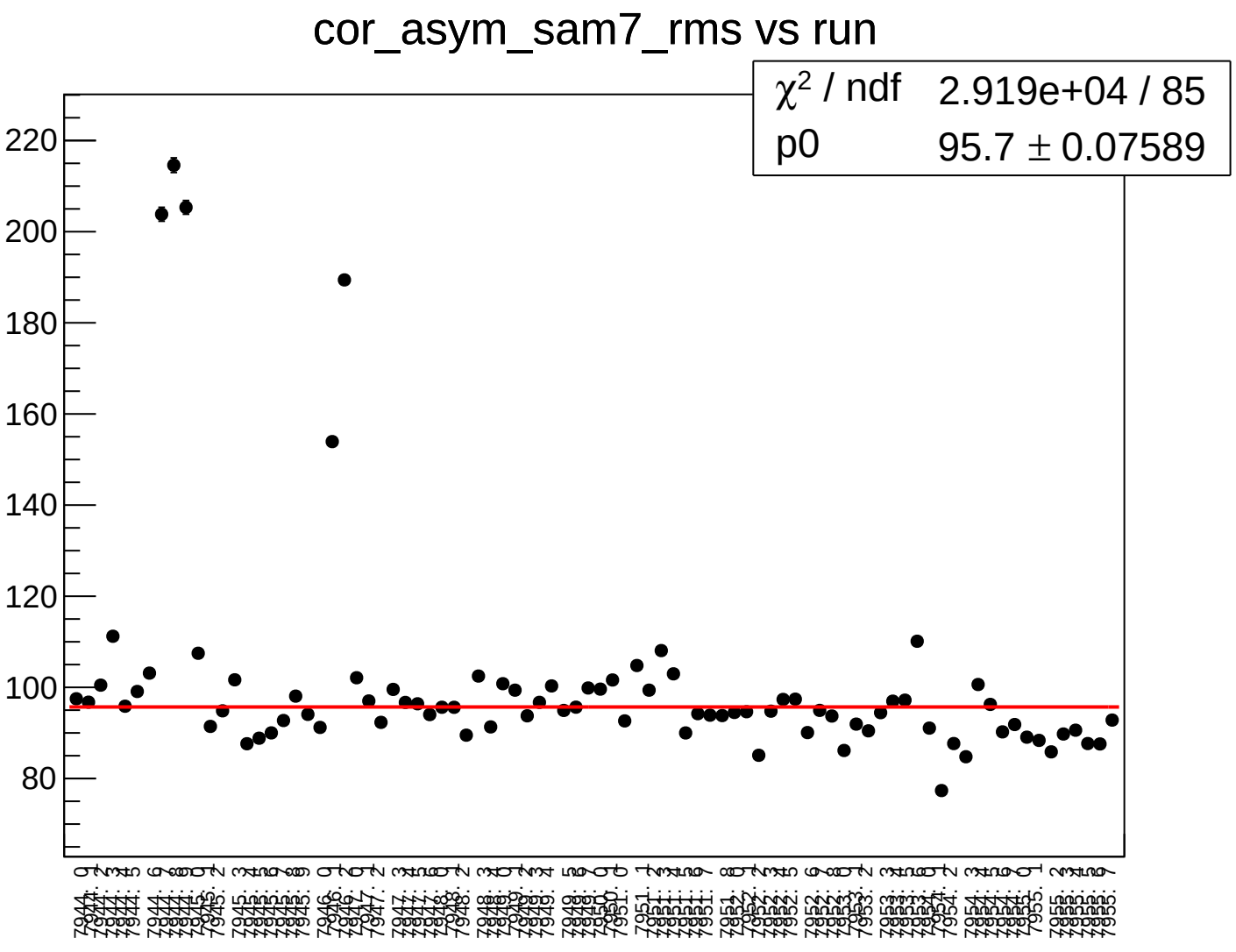

asym_sam7_reg_correction_mean vs run
χ² / ndf 90.44 / 85
p0 −167.8 ± 1145
pull
Entries 86
Mean 895.3
Std Dev 0

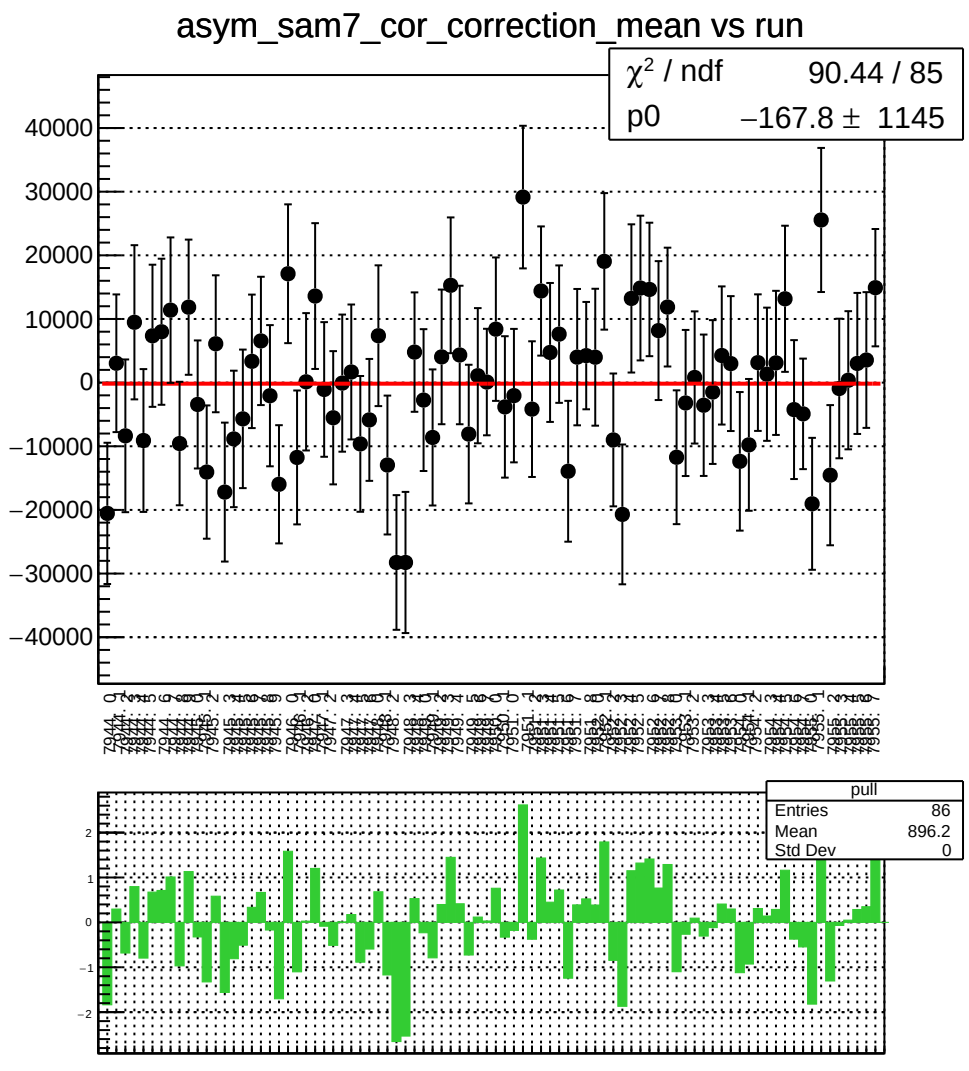

pull1D
Entries 86
Mean 0.004258
Std Dev 1.025

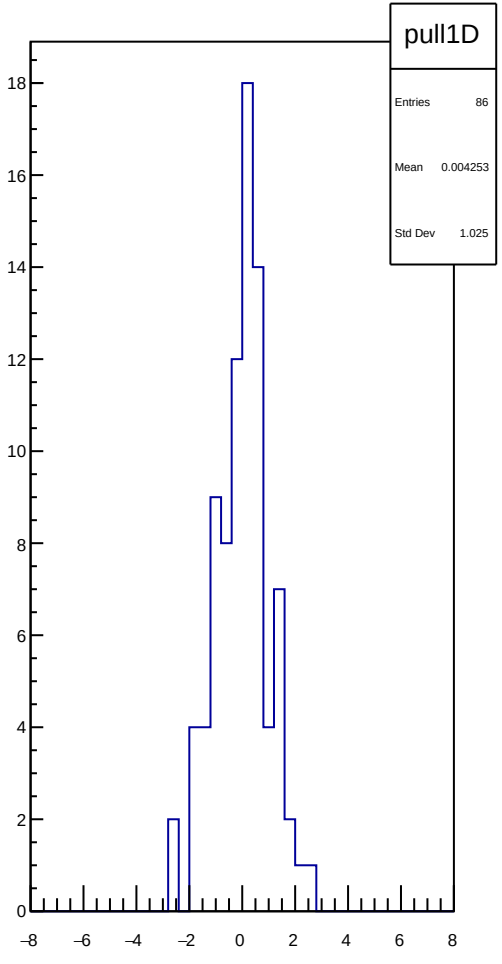

asym_sam7_reg_correction_rms vs run
χ² / ndf 2233 / 85
p0 1030 ± 0.8097
1150
1100
1050
1000
950
900

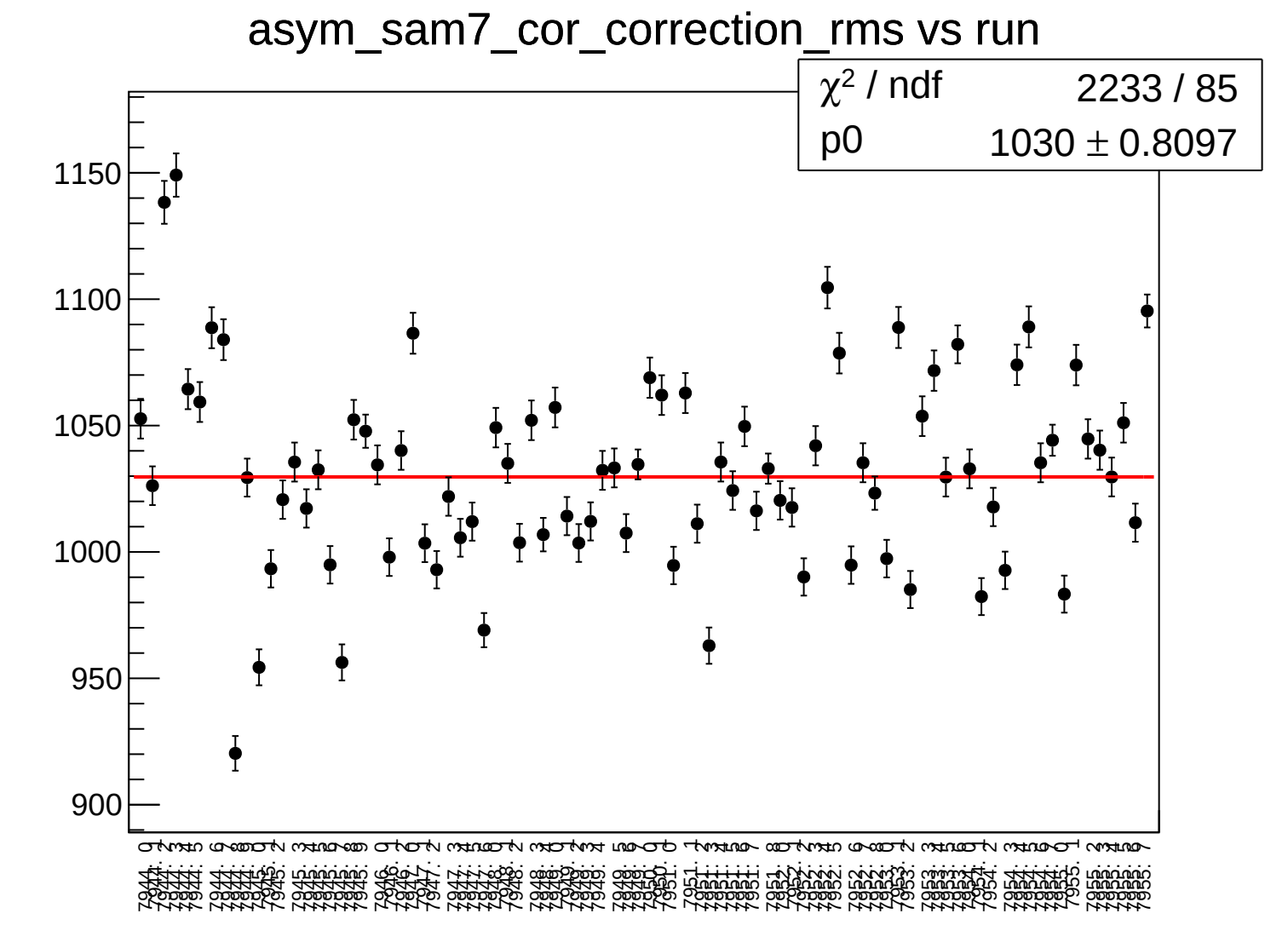

cor_asym_sam7_mean vs run
χ² / ndf 79.4 / 85
p0 −84.19 ± 107.3
pull
Entries 86
Mean 285.6
Std Dev 0

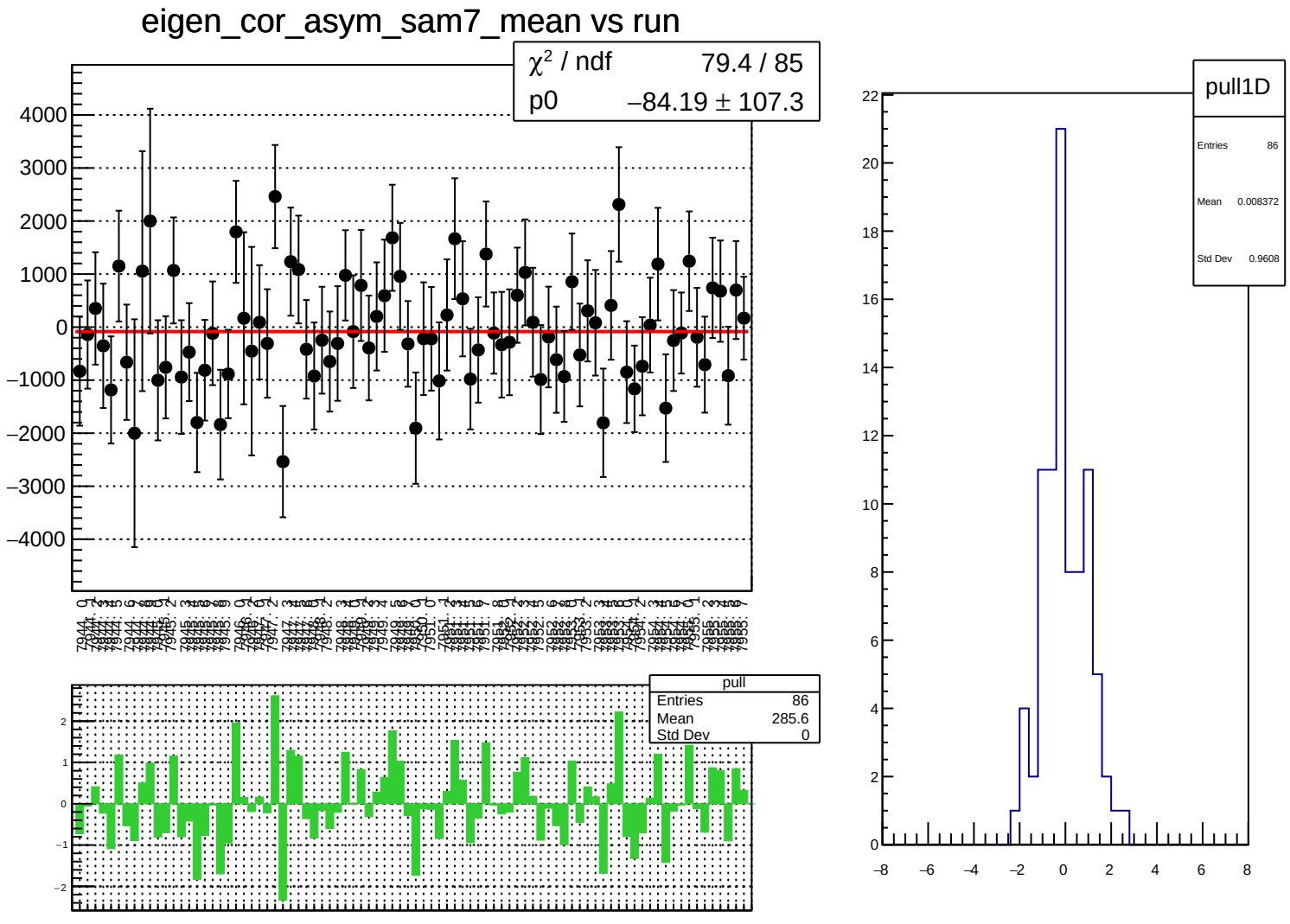

pull1D
Entries 86
Mean 0.008372
Std Dev 0.9608

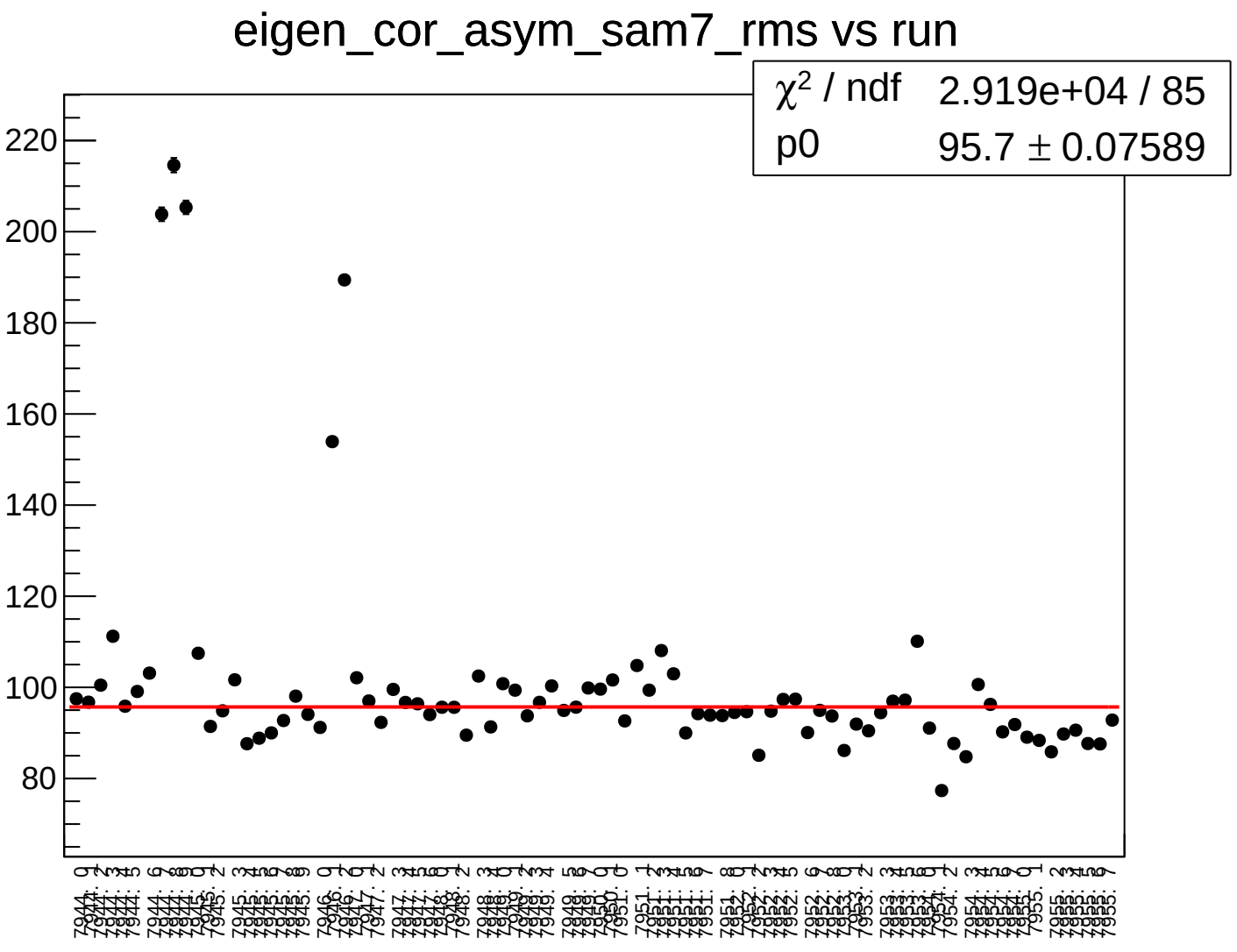

cor_asym_sam7_rms vs run
χ^2 / ndf 2.919e+04 / 85
p0 95.7 ± 0.07589
220
200
180
160
140
120
100
80

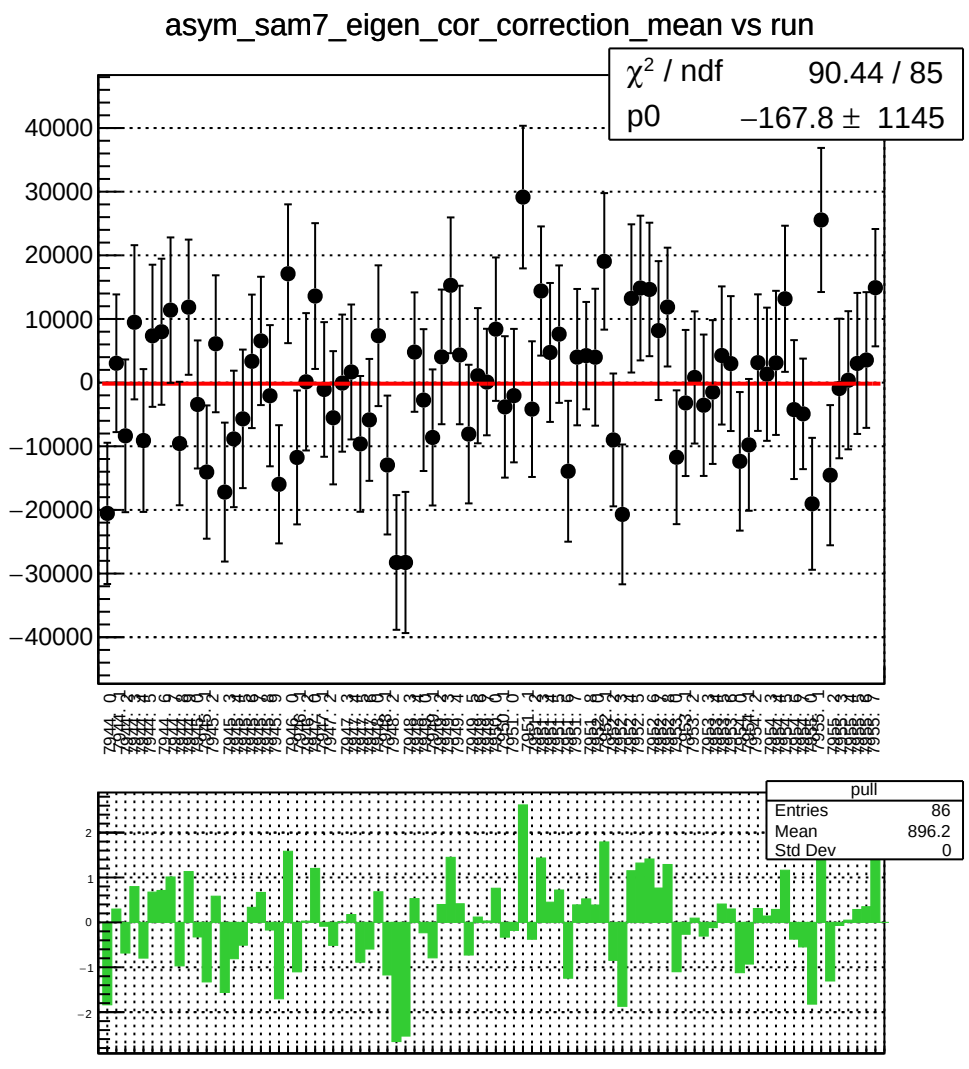

asym_sam7_cor_correction_mean vs run
χ² / ndf 90.44 / 85
p0 −167.8 ± 1145
pull
Entries 86
Mean 896.2
Std Dev 0

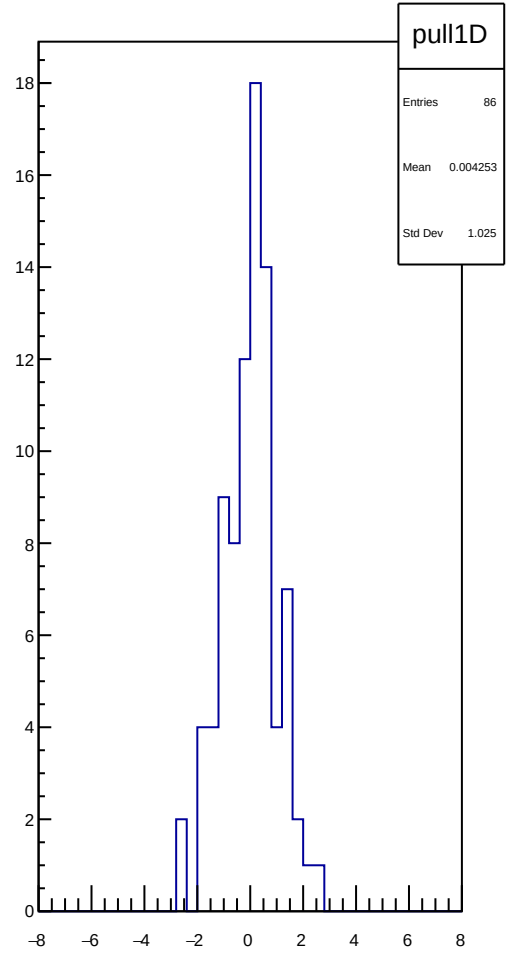

pull1D
Entries 86
Mean 0.004253
Std Dev 1.025

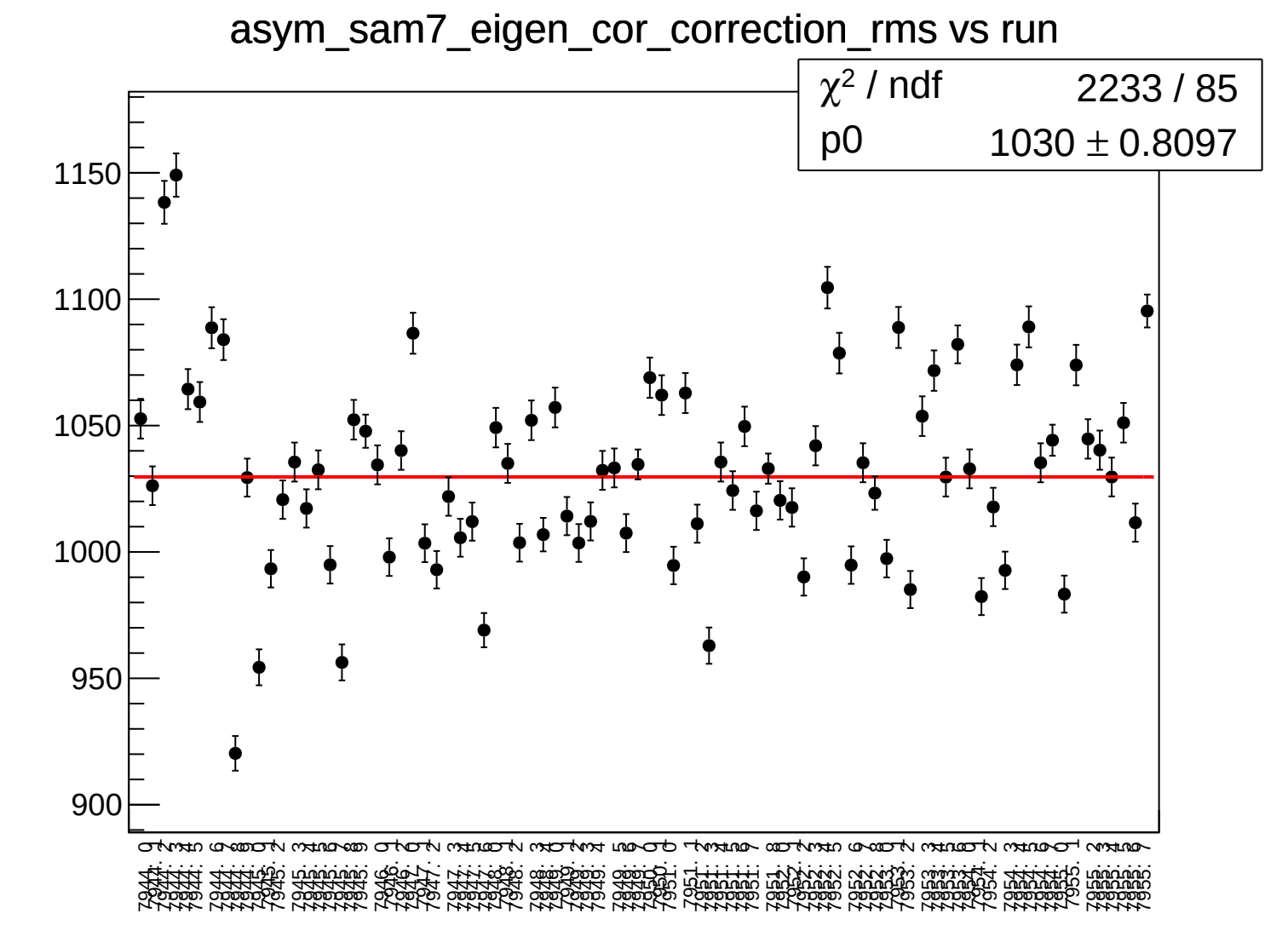

asym_sam7_cor_correction_rms vs run
χ² / ndf 2233 / 85
p0 1030 ± 0.8097
1150
1100
1050
1000
950
900

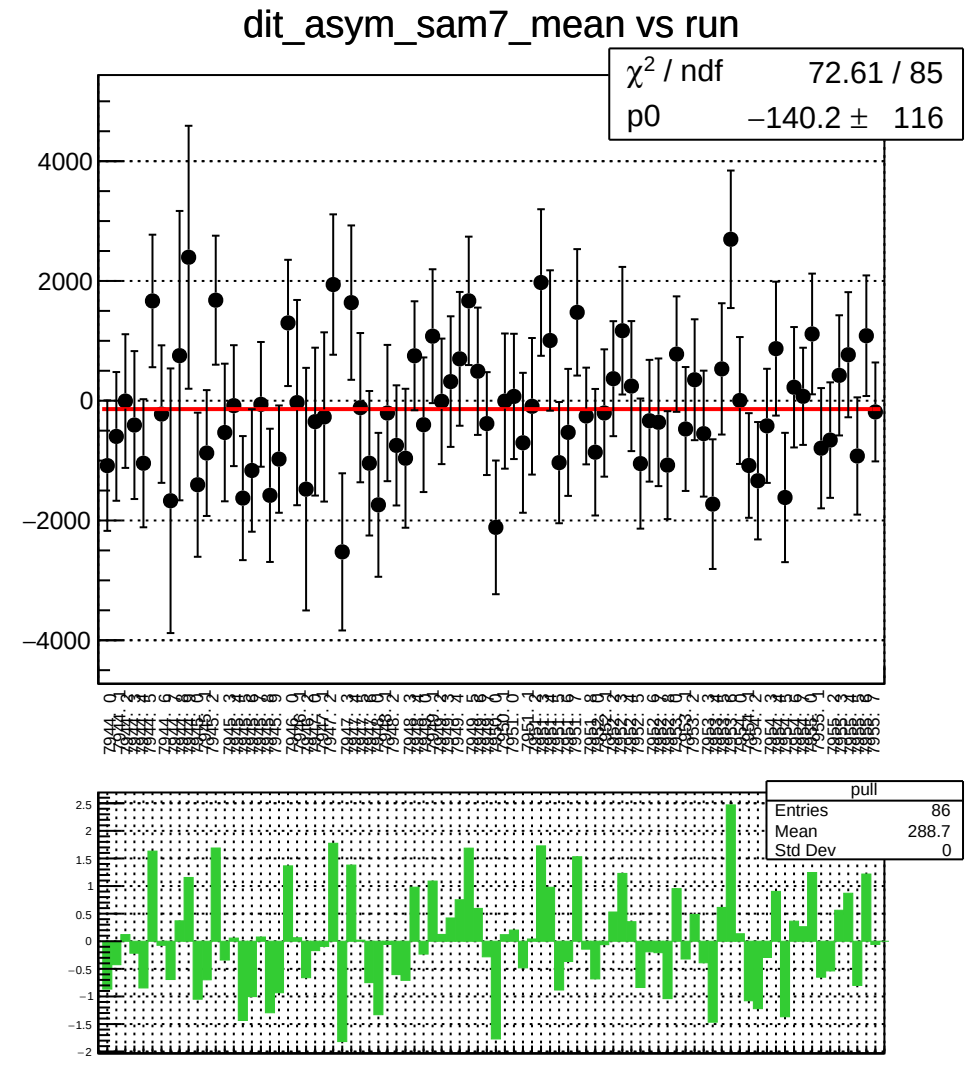

eigen_cor_asym_sam7_mean vs run
χ² / ndf 79.4 / 85
p0 −84.19 ± 107.3
pull
Entries 86
Mean 285.6
Std Dev 0
pull1D
Entries 86
Mean 0.008372
Std Dev 0.9608

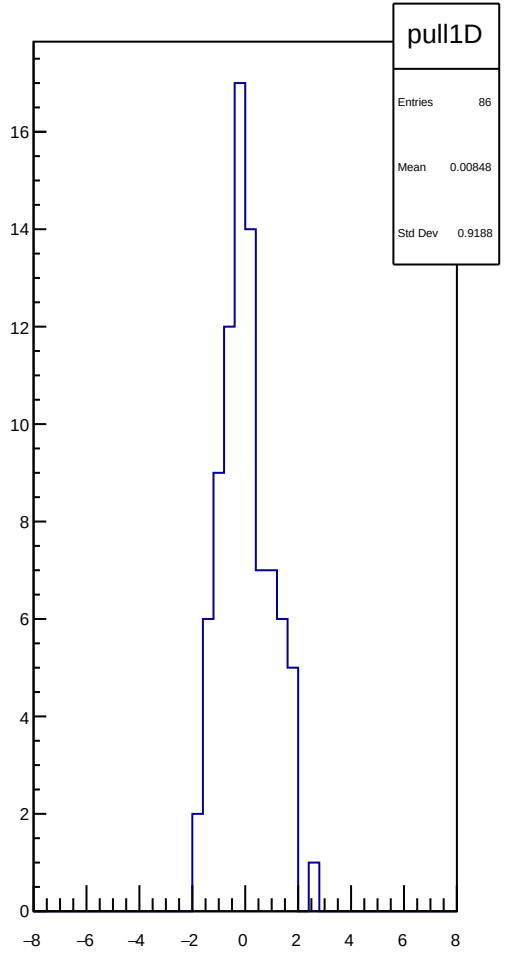

eigen_cor_asym_sam7_rms vs run
χ² / ndf 2.919e+04 / 85
p0 95.7 ± 0.07589
220
200
180
160
140
120
100
80

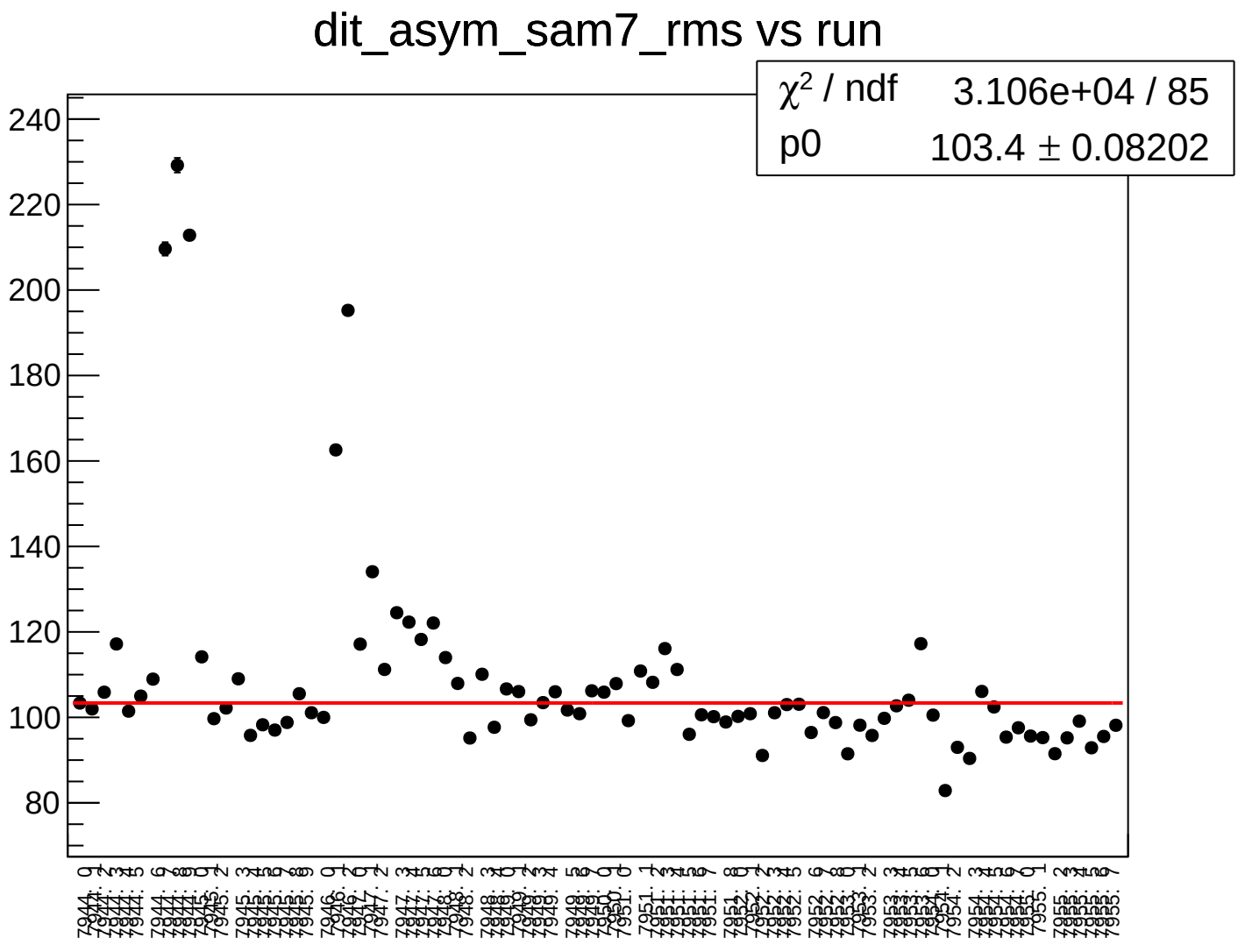

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 90.44 / 85
p0 −167.8 ± 1145
pull
Entries 86
Mean 896.2
Std Dev 0

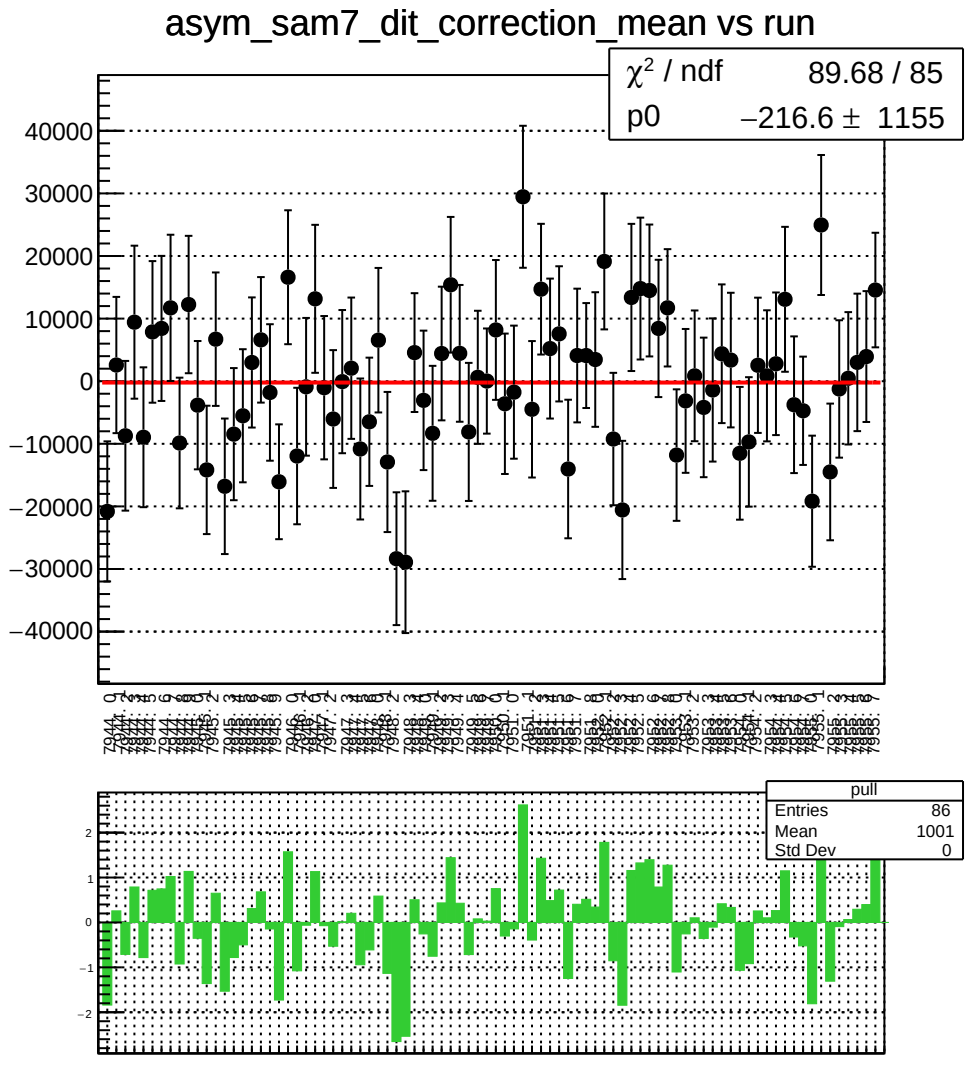

pull1D
Entries 86
Mean 0.004253
Std Dev 1.025

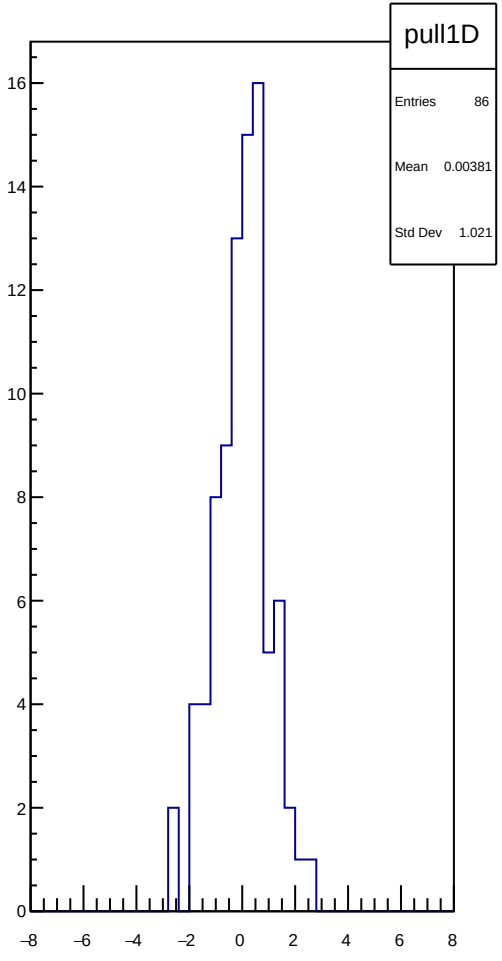

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 2233 / 85
p0 1030 ± 0.8097
1150
1100
1050
1000
950
900


dit_asym_sam7_mean vs run
χ² / ndf 72.61 / 85
p0 −140.2 ± 116
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 288.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

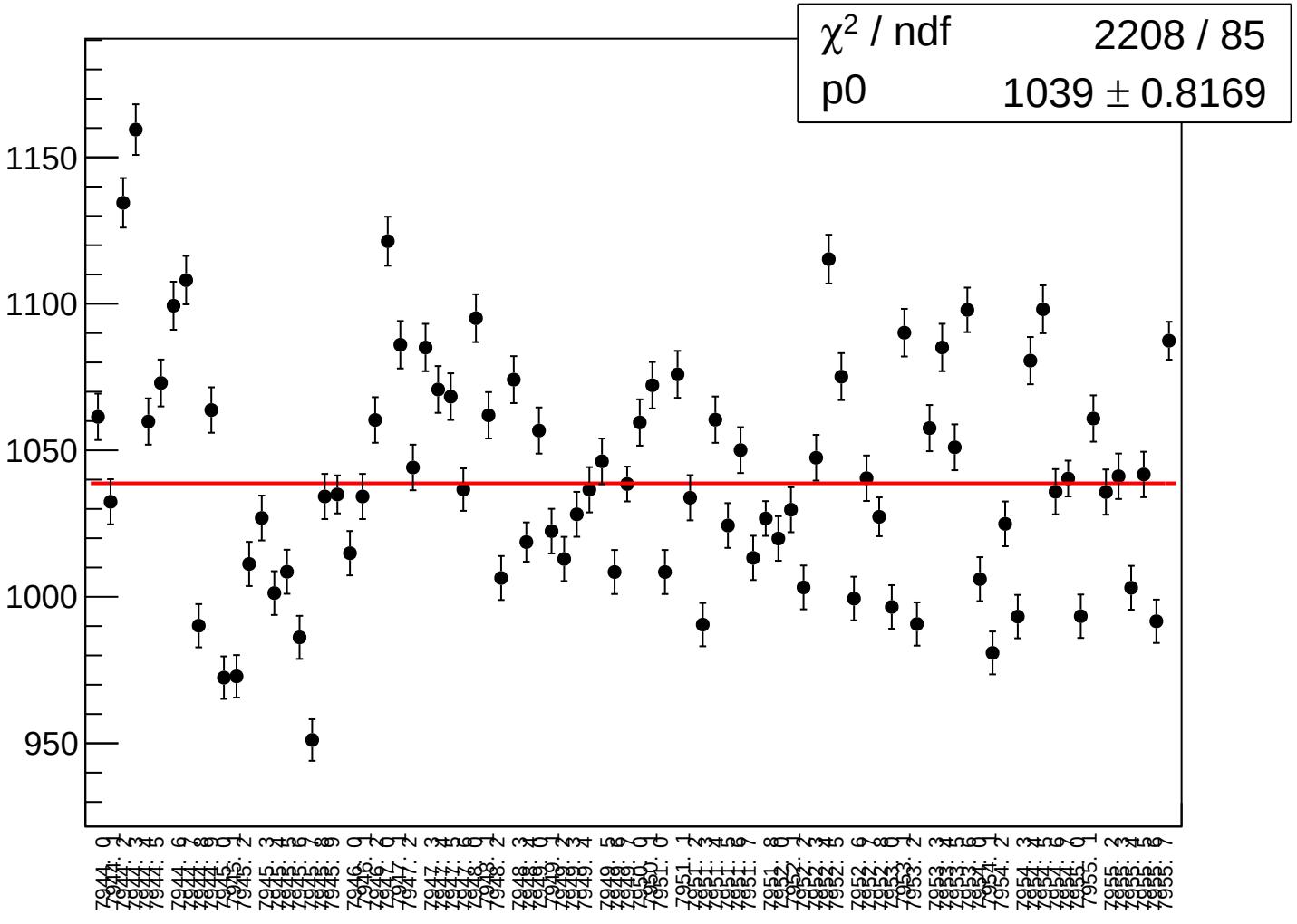

pull1D
Entries 86
Mean 0.00848
Std Dev 0.9188
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

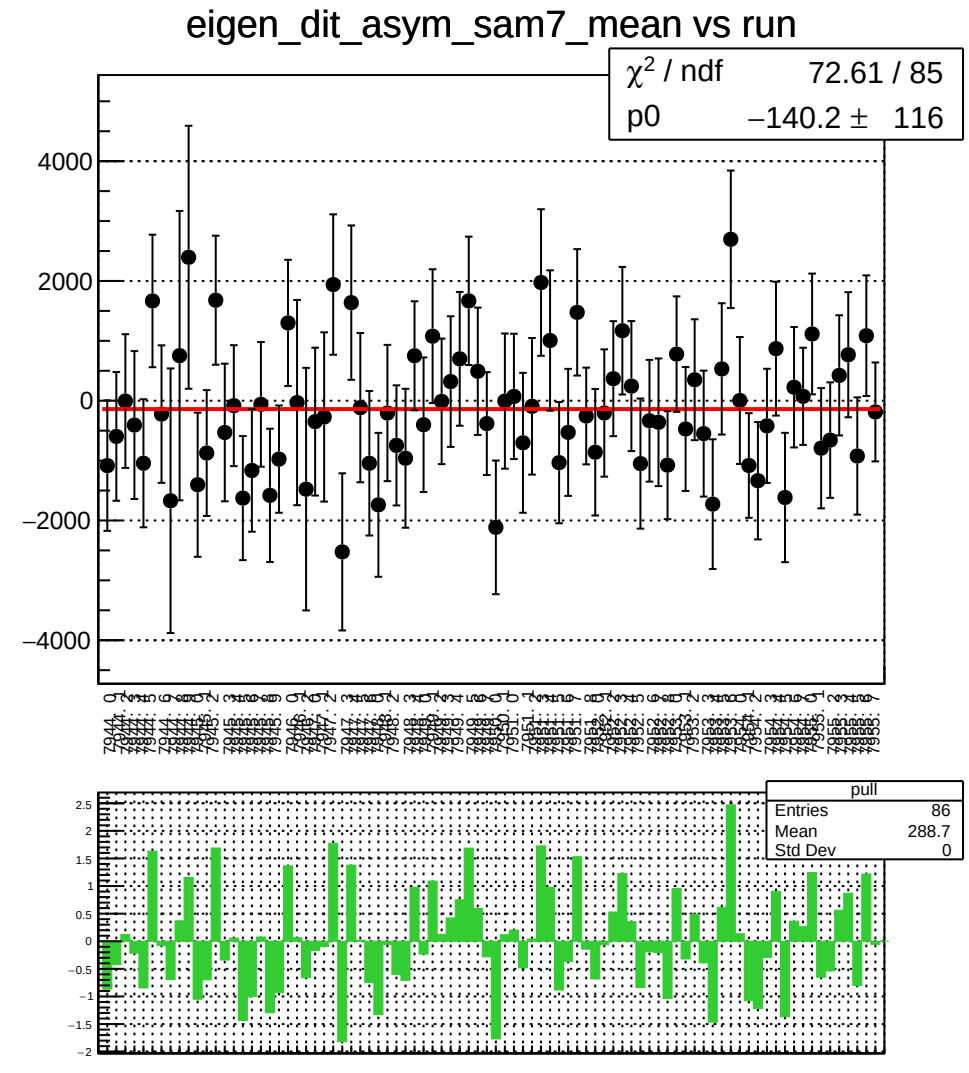

dit_asym_sam7_rms vs run
χ² / ndf 3.106e+04 / 85
p0 103.4 ± 0.08202
240
220
200
180
160
140
120
100
80

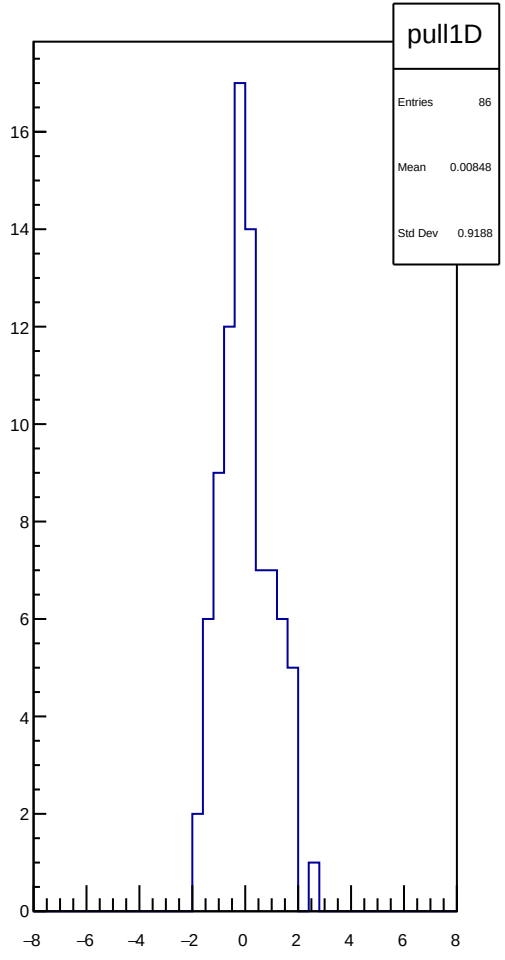

asym_sam7_dit_correction_mean vs run
χ² / ndf 89.68 / 85
p0 −216.6 ± 1155
pull
Entries 86
Mean 1001
Std Dev 0

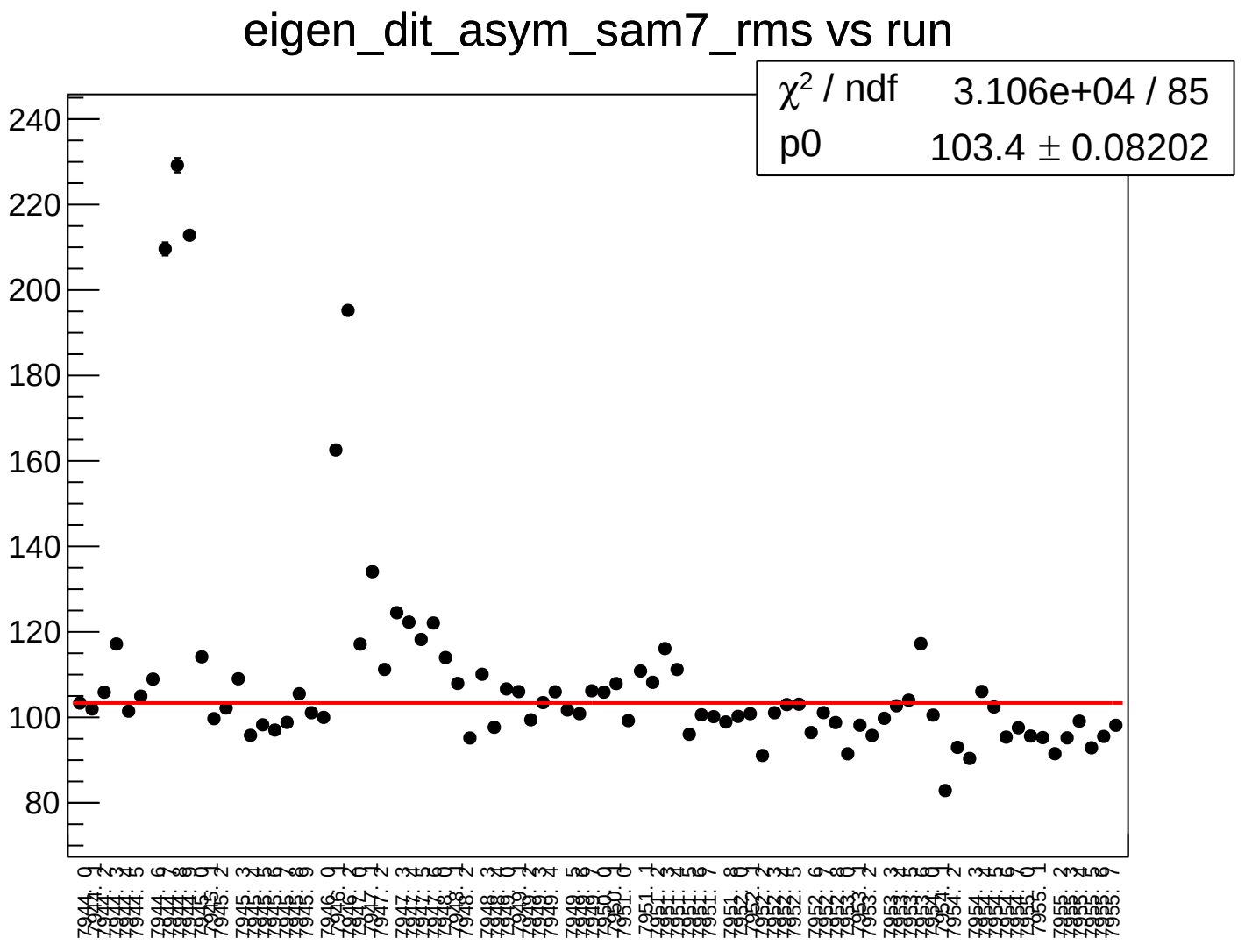

pull1D
Entries 86
Mean 0.00381
Std Dev 1.021

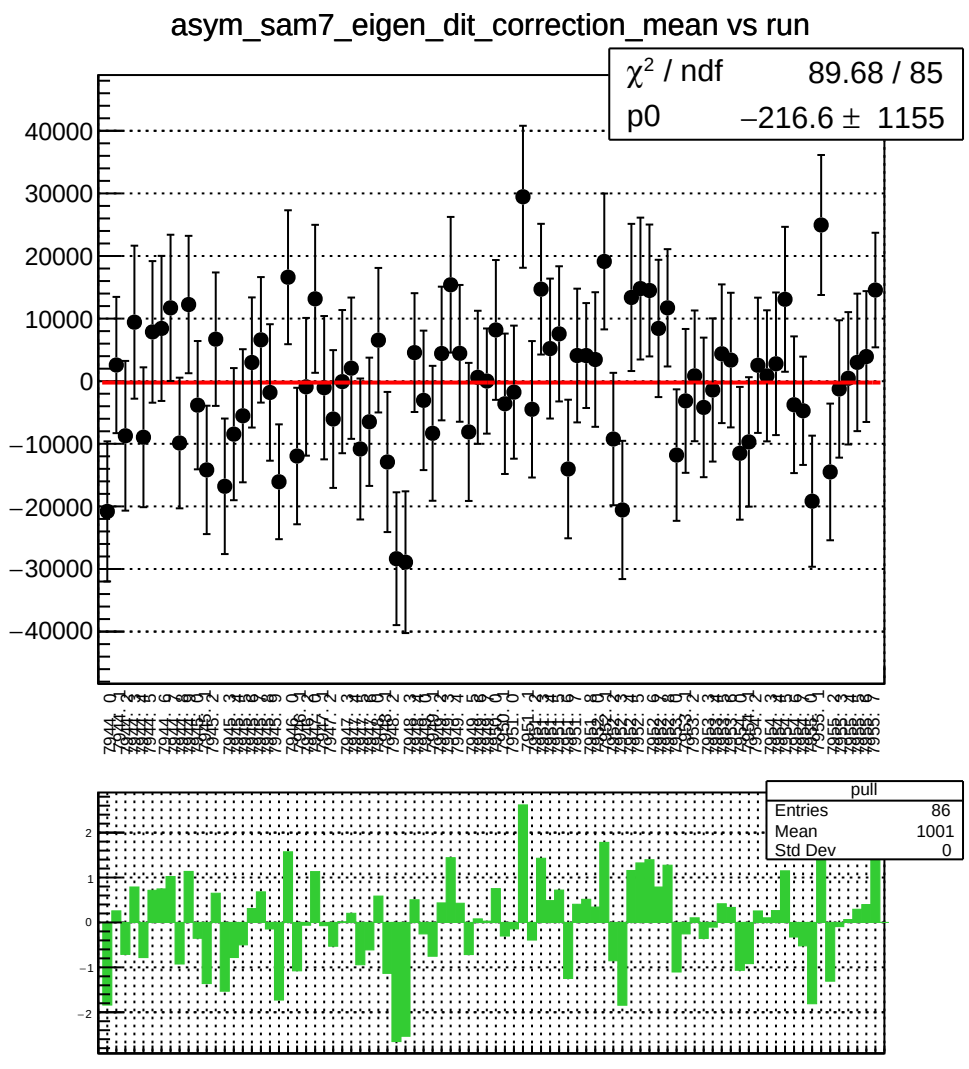
asym_sam7_dit_correction_rms vs run

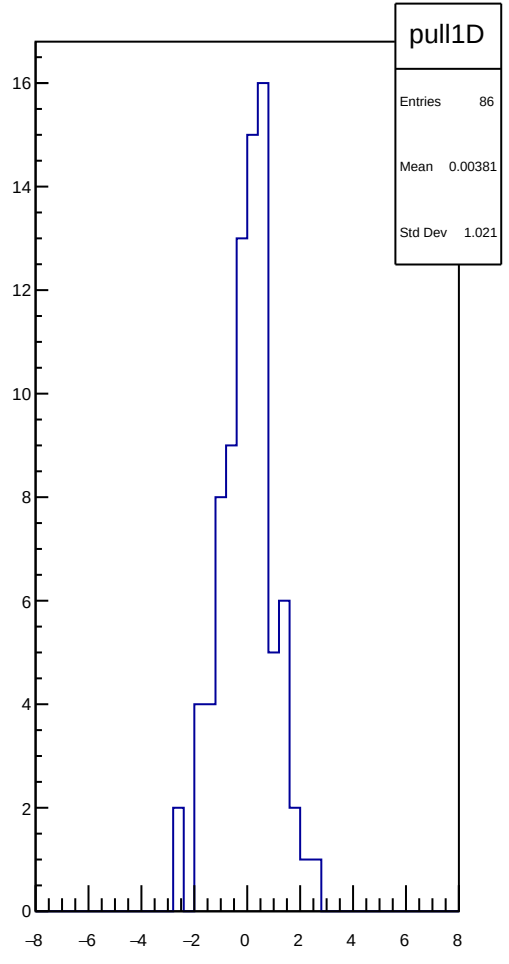


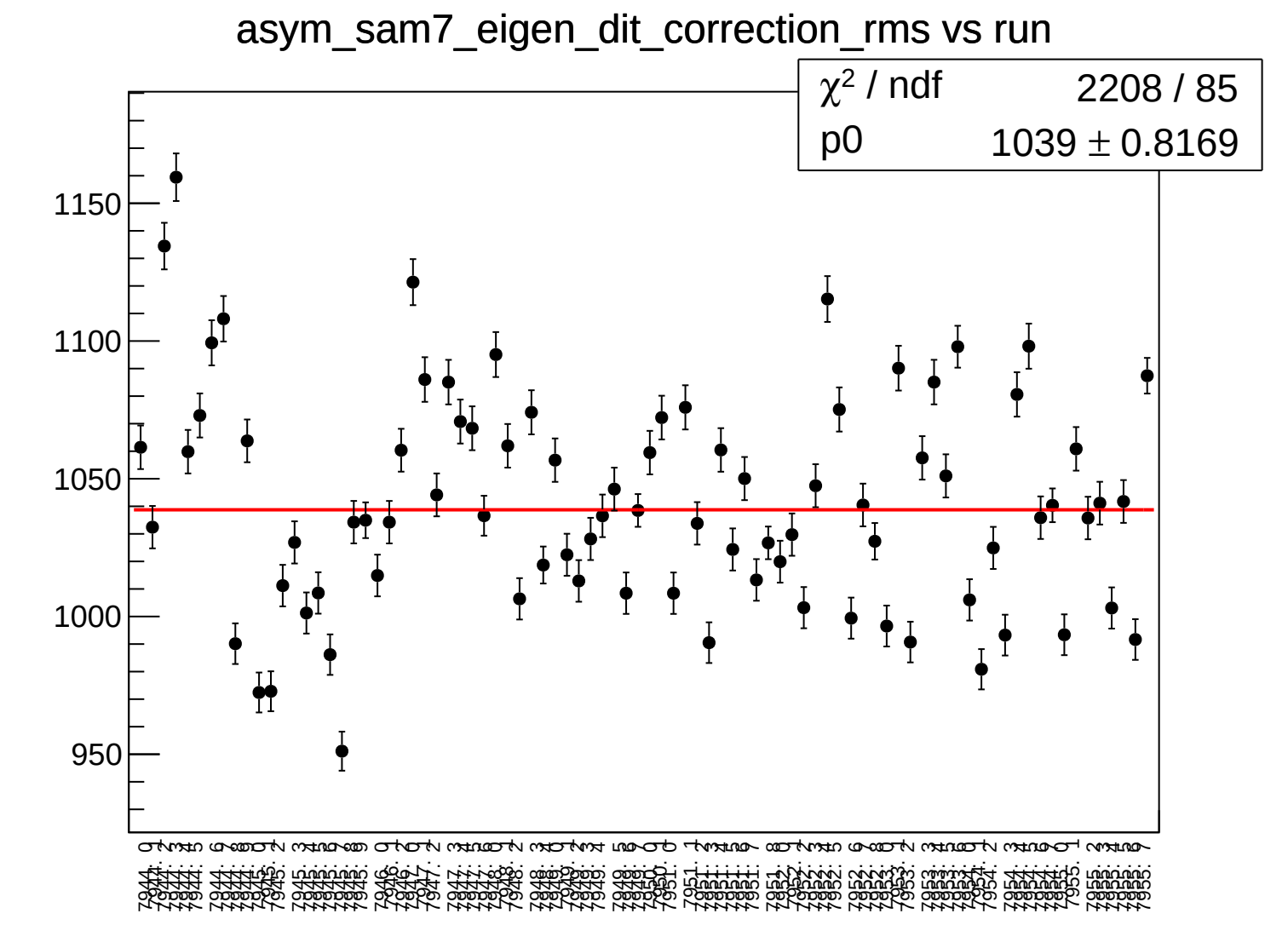

eigen_dit_asym_sam7_mean vs run
χ² / ndf 72.61 / 85
p0 −140.2 ± 116
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 288.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

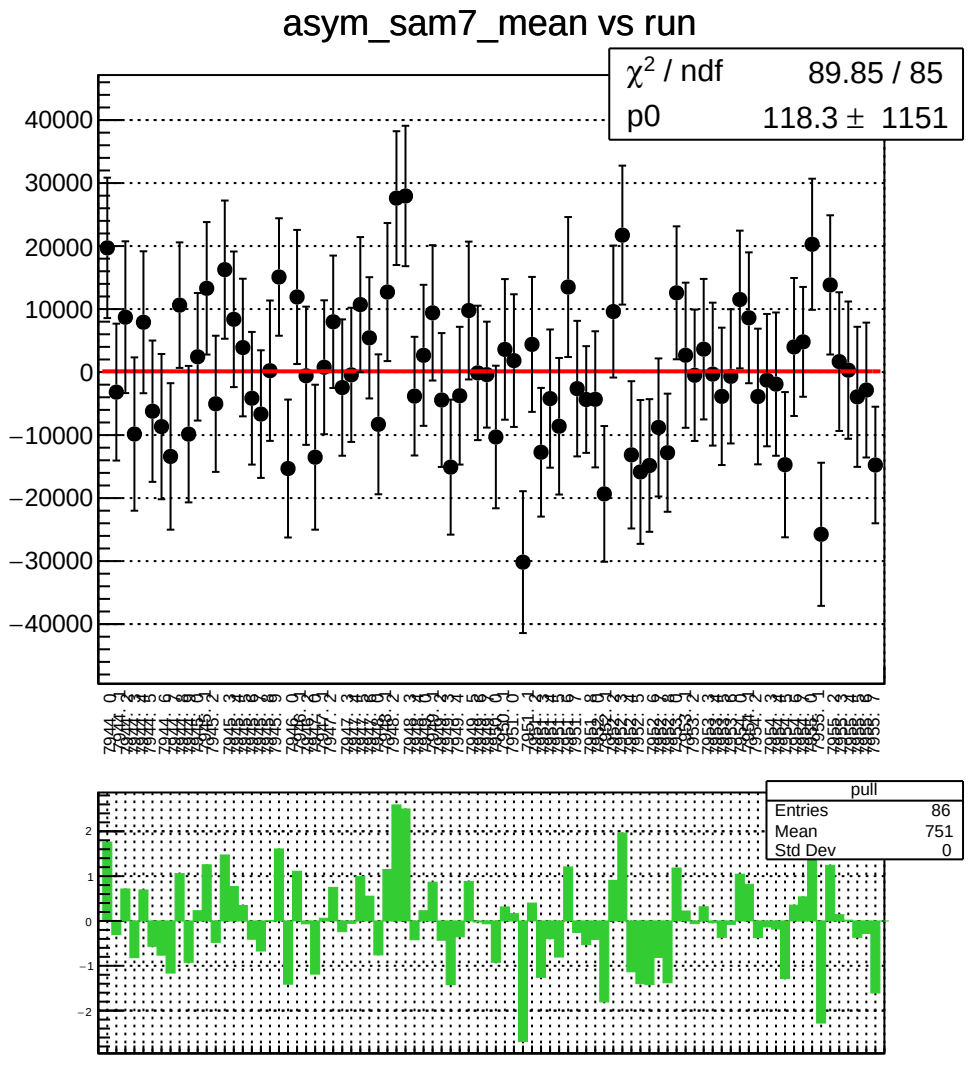

pull1D
Entries 86
Mean 0.00848
Std Dev 0.9188
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

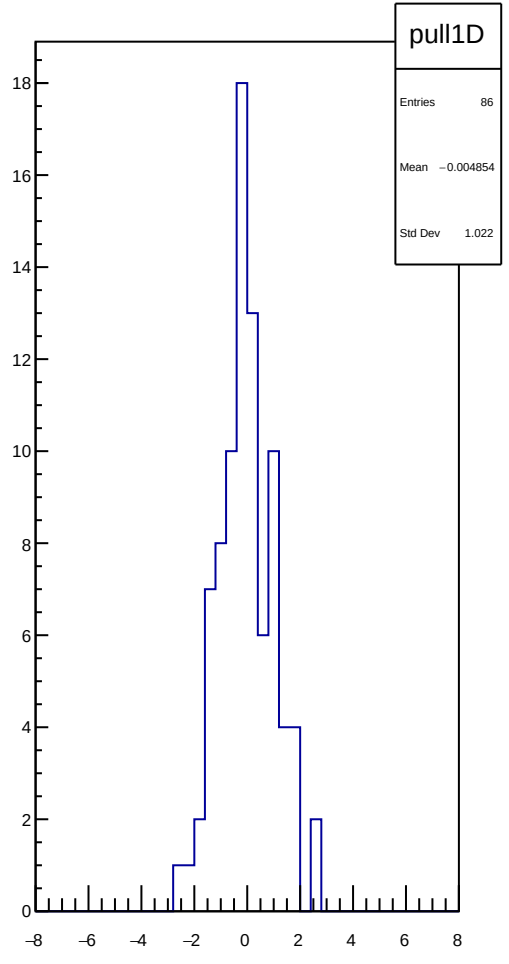

eigen_dit_asym_sam7_rms vs run
χ² / ndf 3.106e+04 / 85
p0 103.4 ± 0.08202
240
220
200
180
160
140
120
100
80

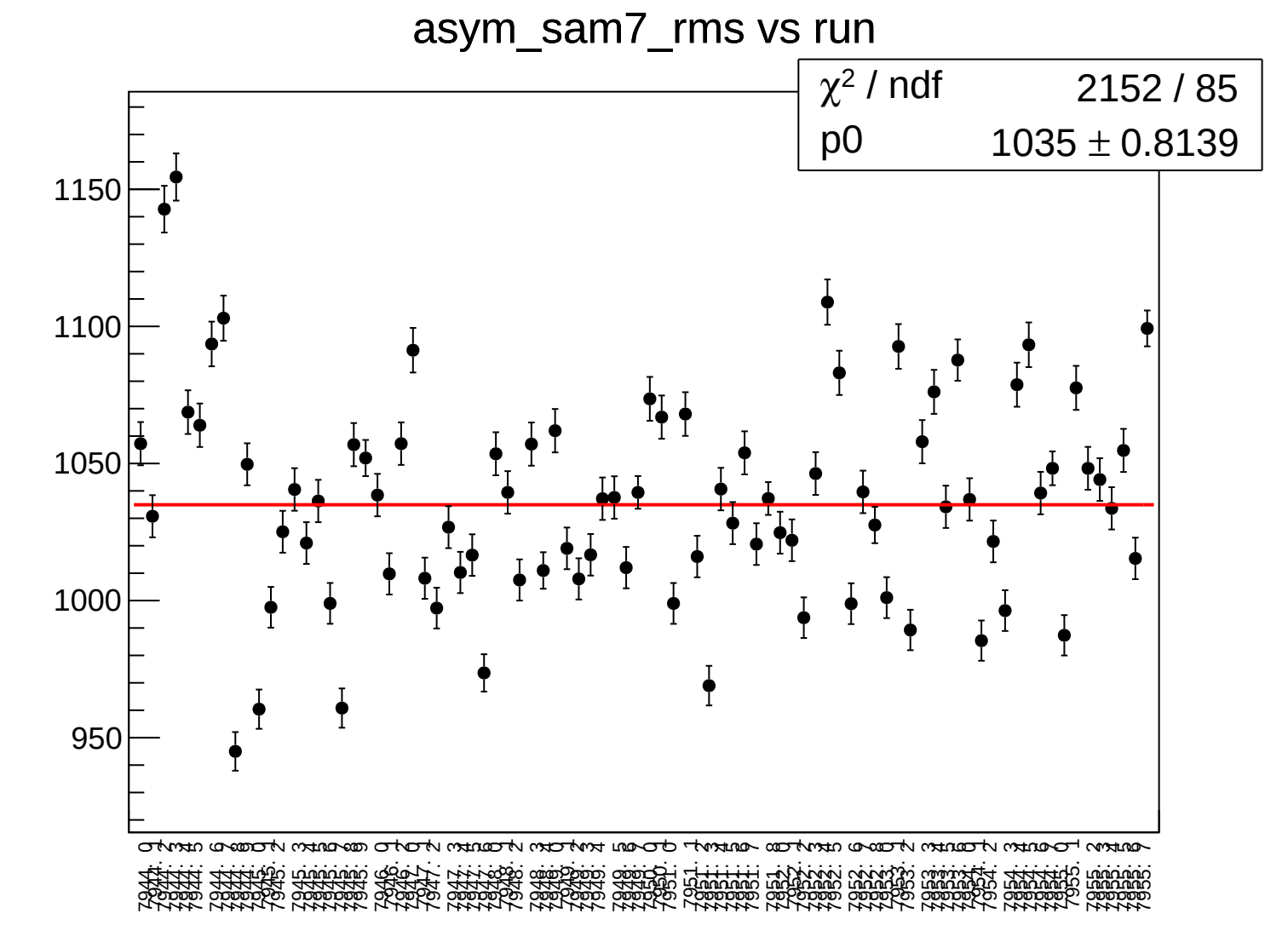

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 89.68 / 85
p0 −216.6 ± 1155
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 1001
Std Dev 0
2
1
0
−1
−2

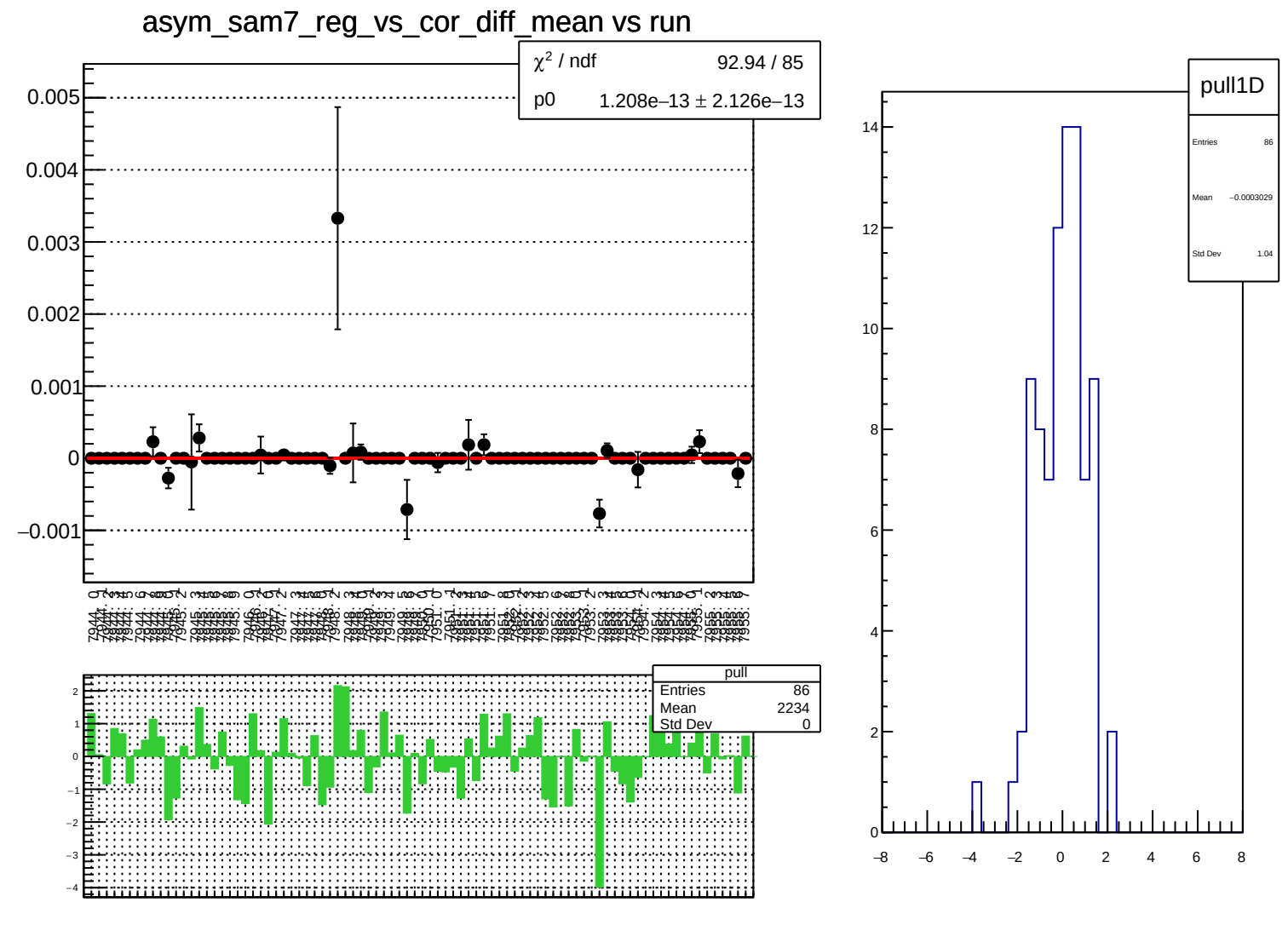

pull1D
Entries 86
Mean 0.00381
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

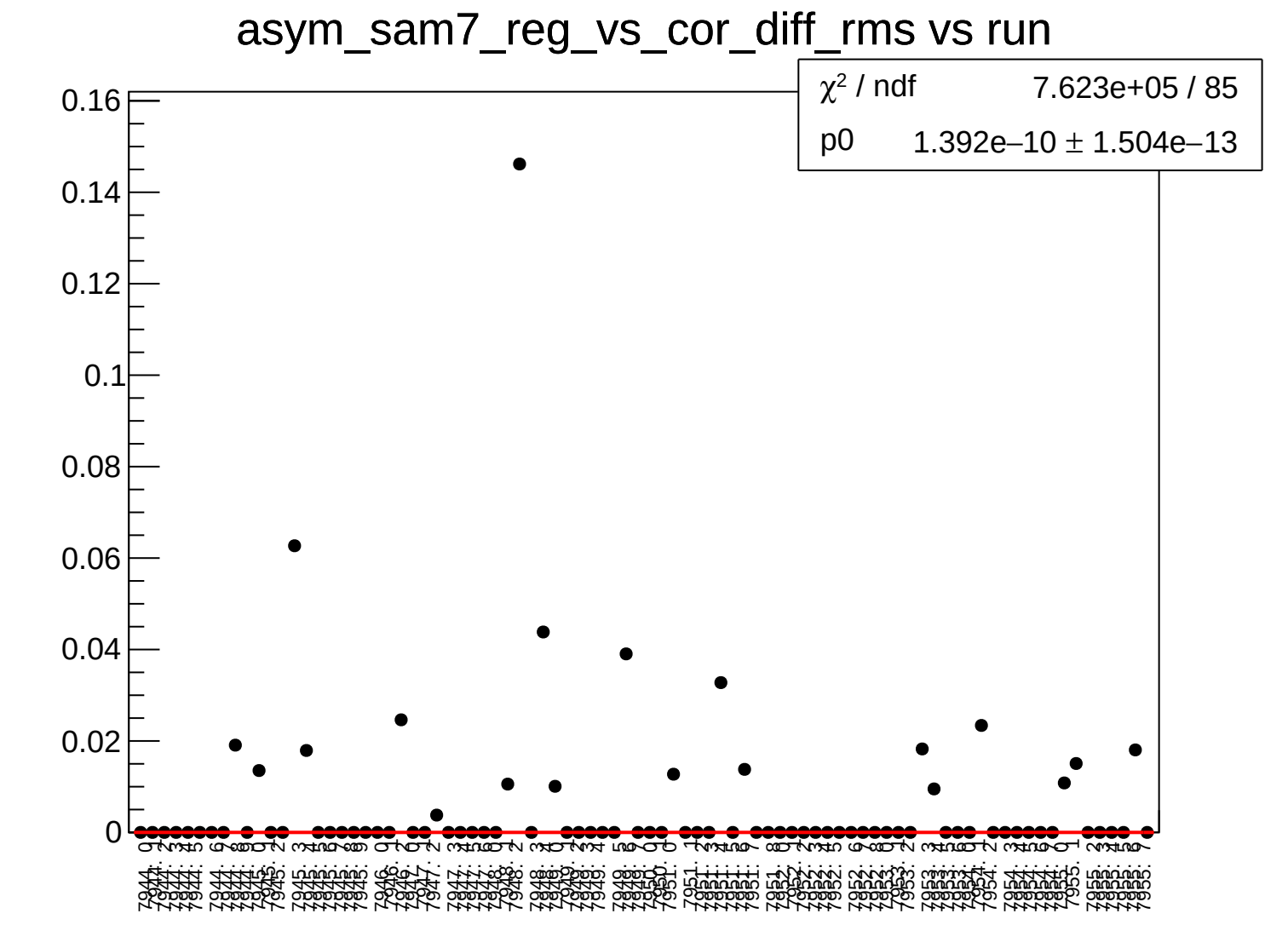

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2208 / 85
p0 1039 ± 0.8169
1150
1100
1050
1000
950

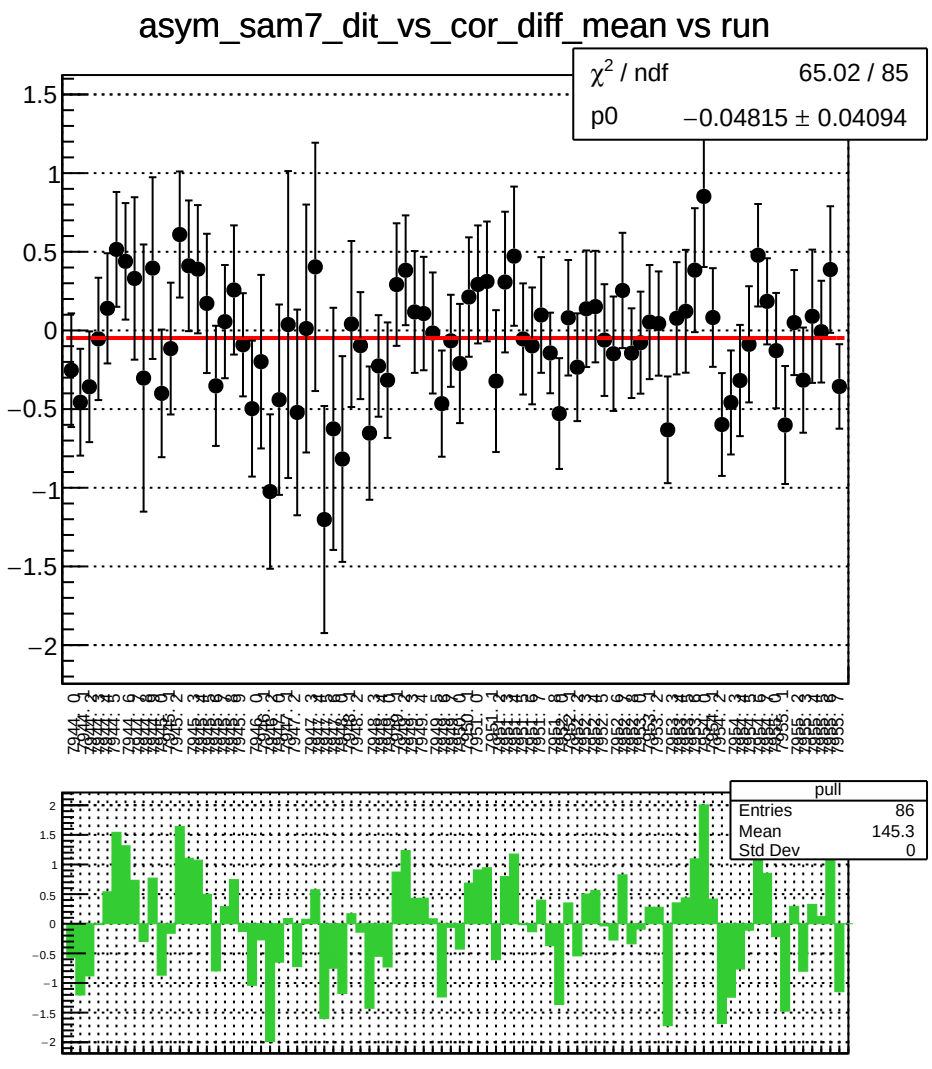

asym_sam7_mean vs run
χ² / ndf 89.85 / 85
p0 118.3 ± 1151
pull
Entries 86
Mean 751
Std Dev 0

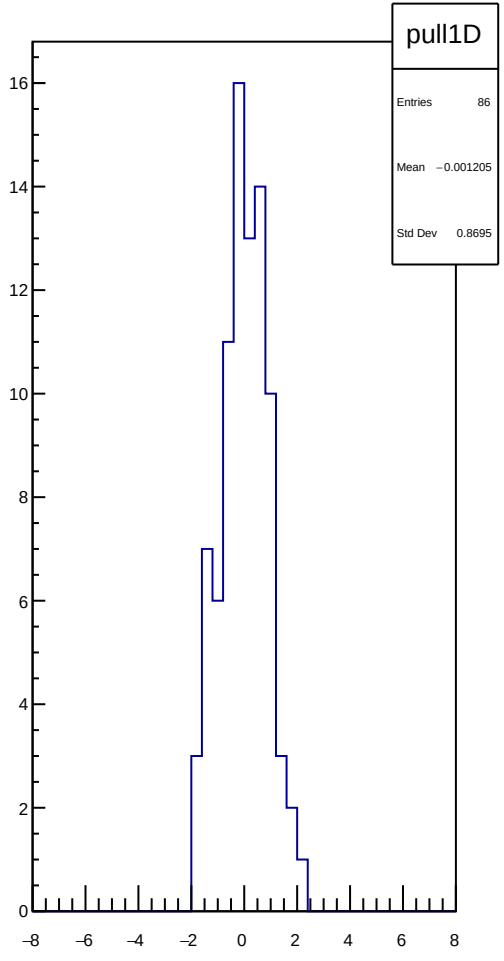

pull1D
Entries 86
Mean −0.004854
Std Dev 1.022

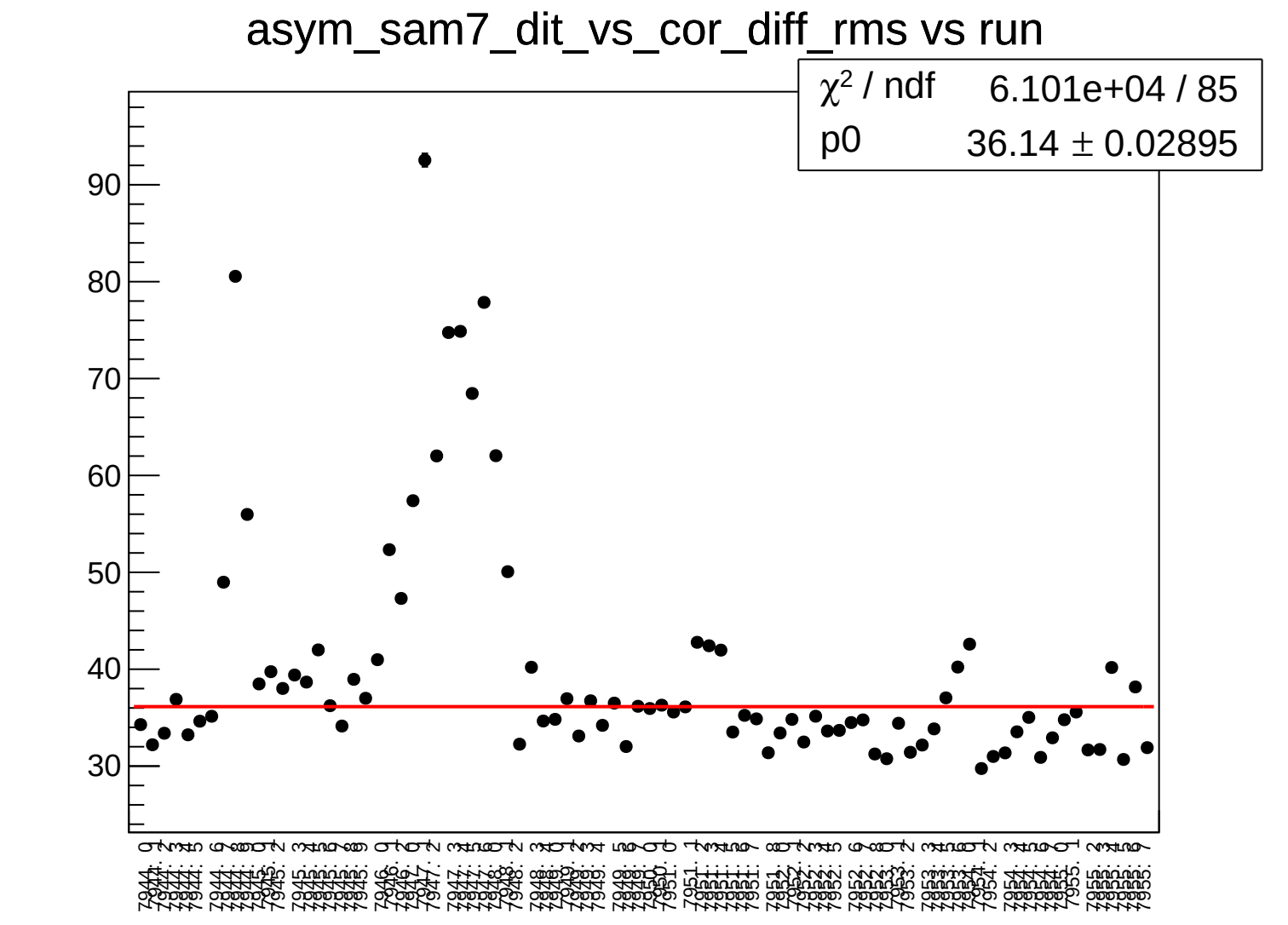

asym_sam7_rms vs run
χ² / ndf 2152 / 85
p0 1035 ± 0.8139
1150
1100
1050
1000
950

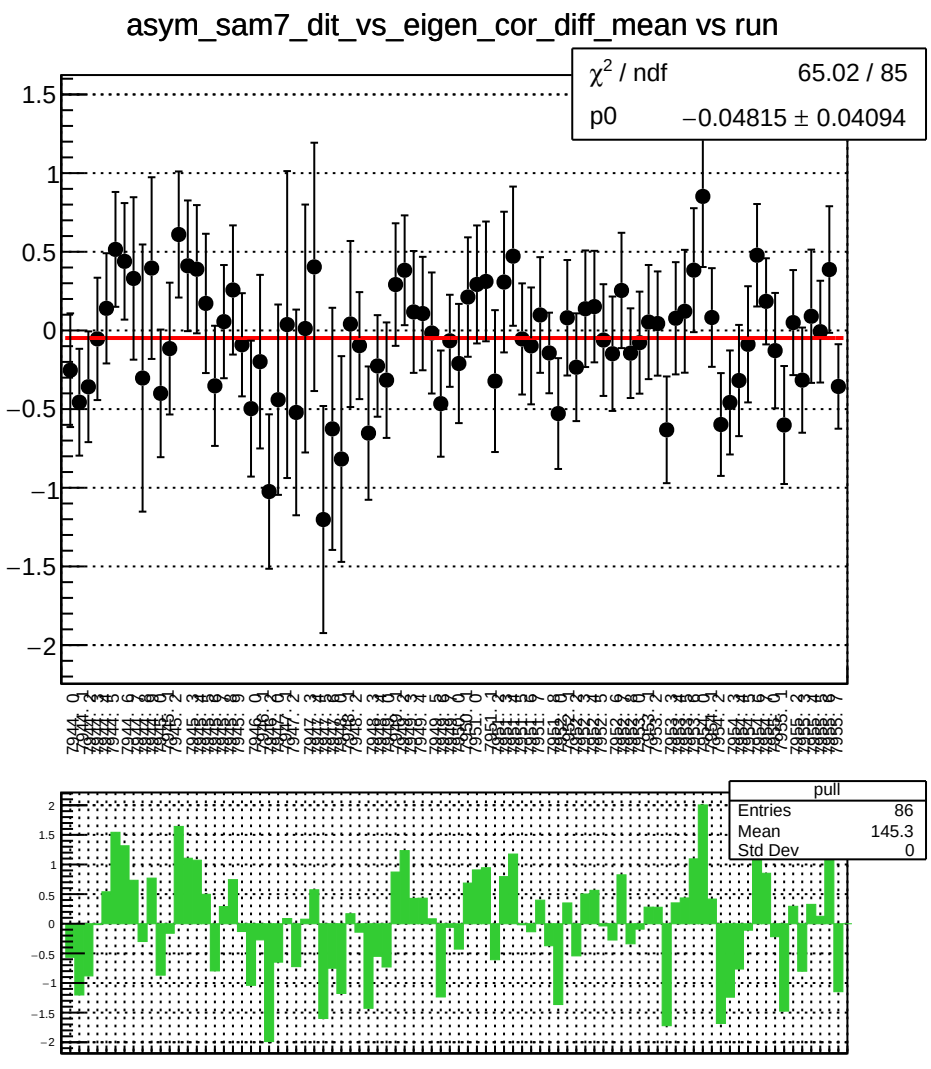

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 92.94 / 85
p0 1.208e−13 ± 2.126e−13
0.005
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 86
Mean 2234
Std Dev 0
pull1D
Entries 86
Mean −0.0003029
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

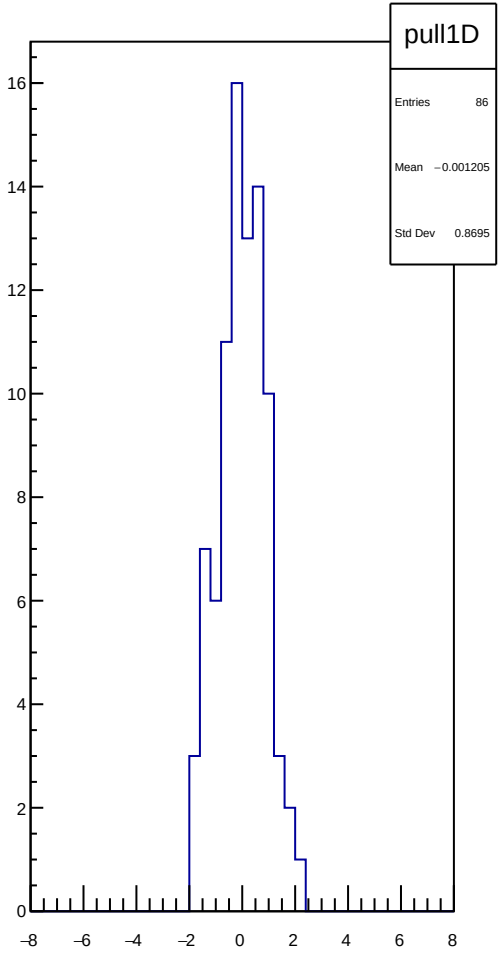

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 7.623e+05 / 85
p0 1.392e−10 ± 1.504e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

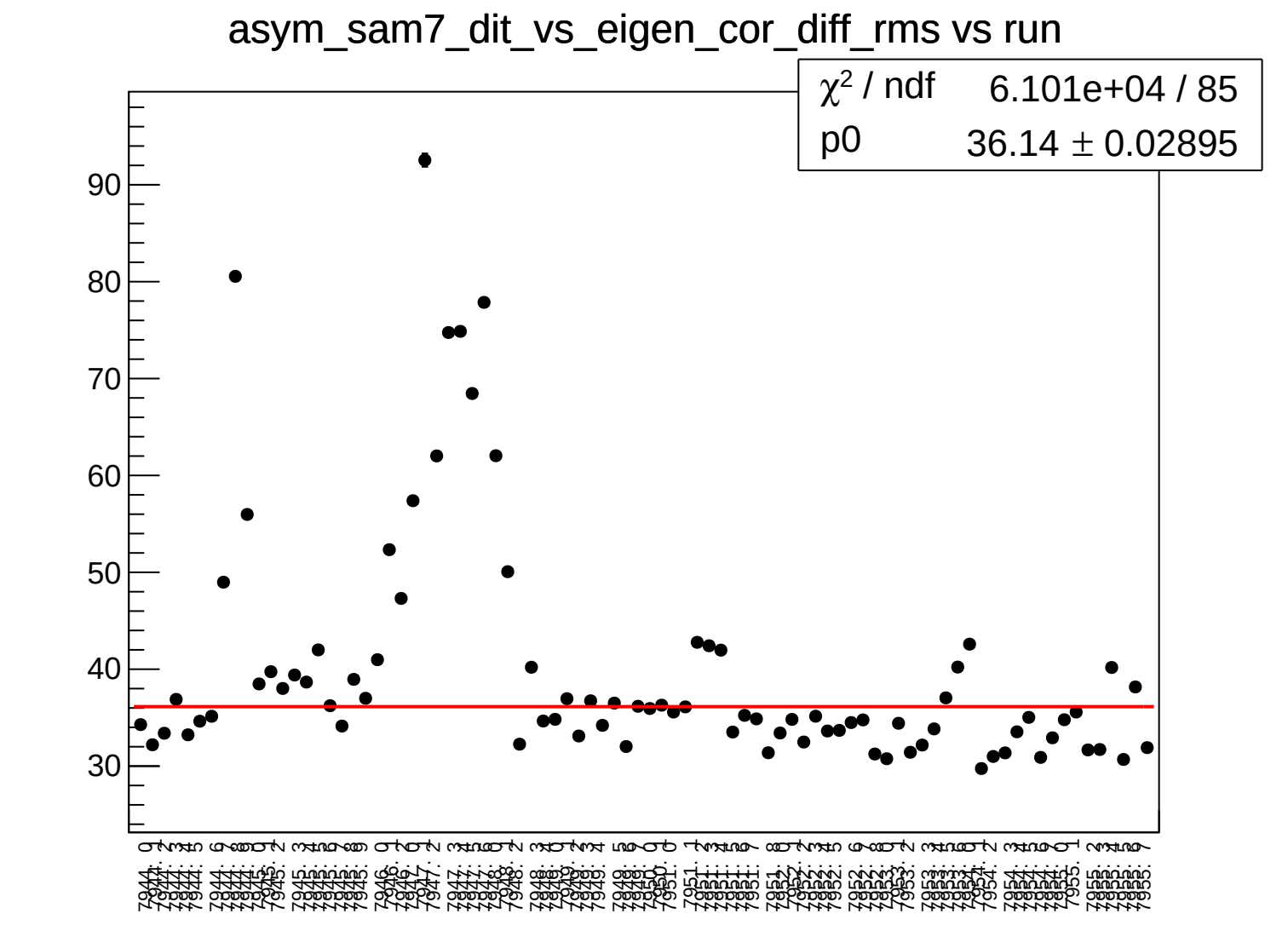

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 65.02 / 85
p0 −0.04815 ± 0.04094
pull
Entries 86
Mean 145.3
Std Dev 0

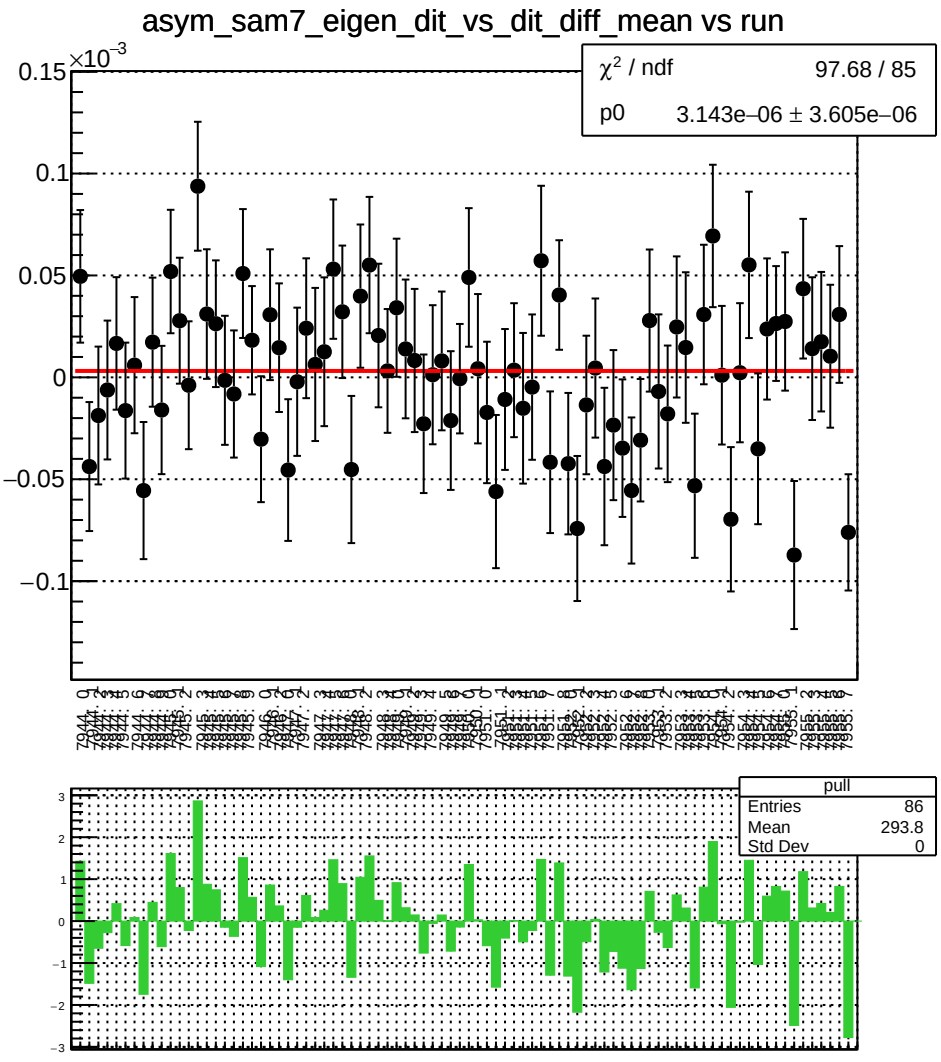

pull1D
Entries 86
Mean −0.001205
Std Dev 0.8695

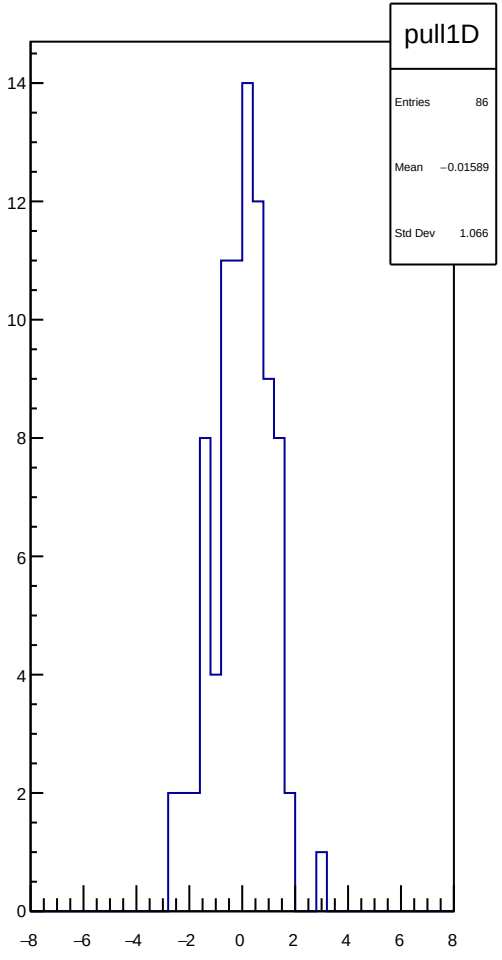

asym_sam7_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.101e+04 / 85
p0 36.14 ± 0.02895
90
80
70
60
50
40
30

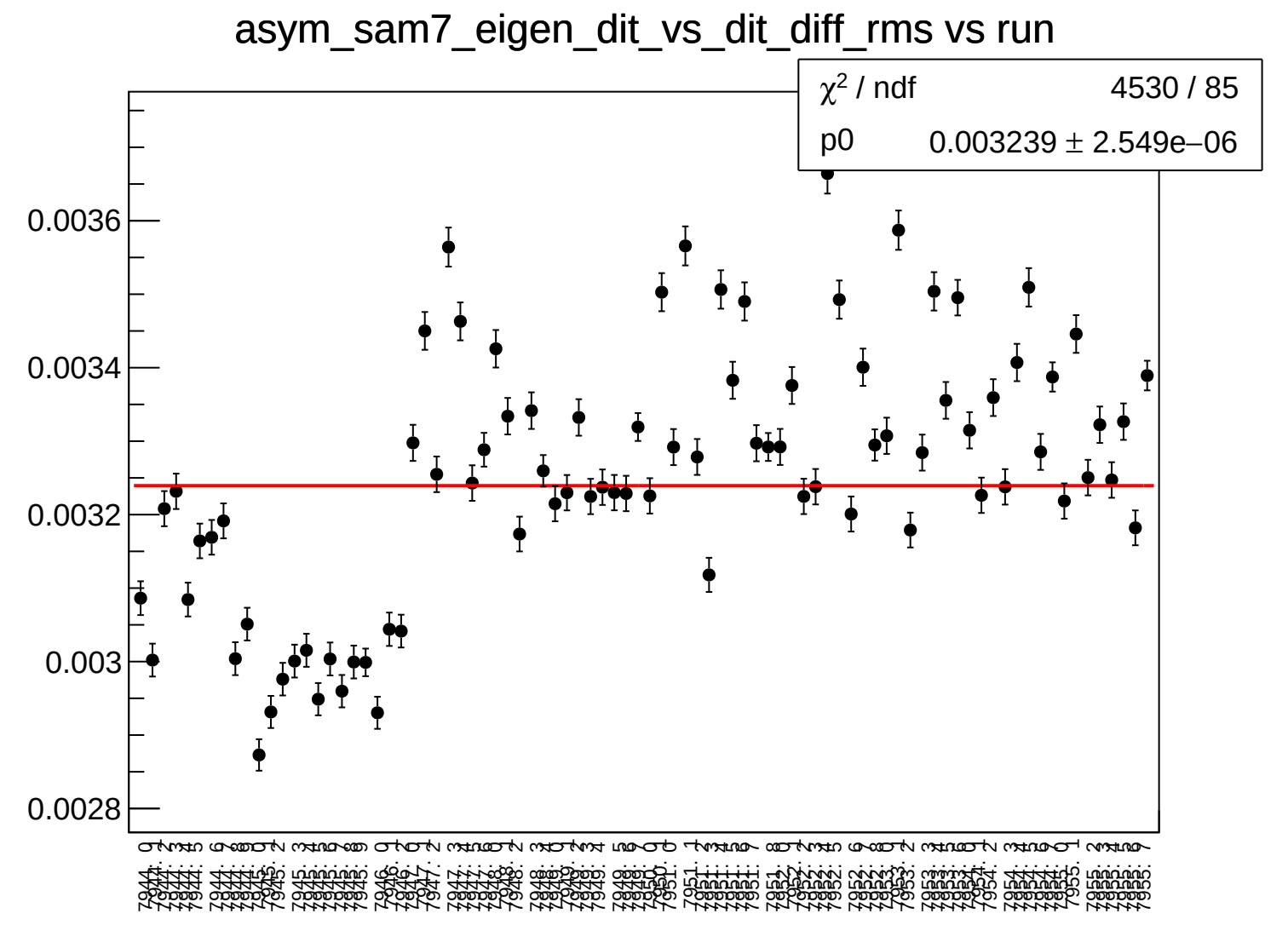

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.02 / 85
p0 −0.04815 ± 0.04094
pull
Entries 86
Mean 145.3
Std Dev 0

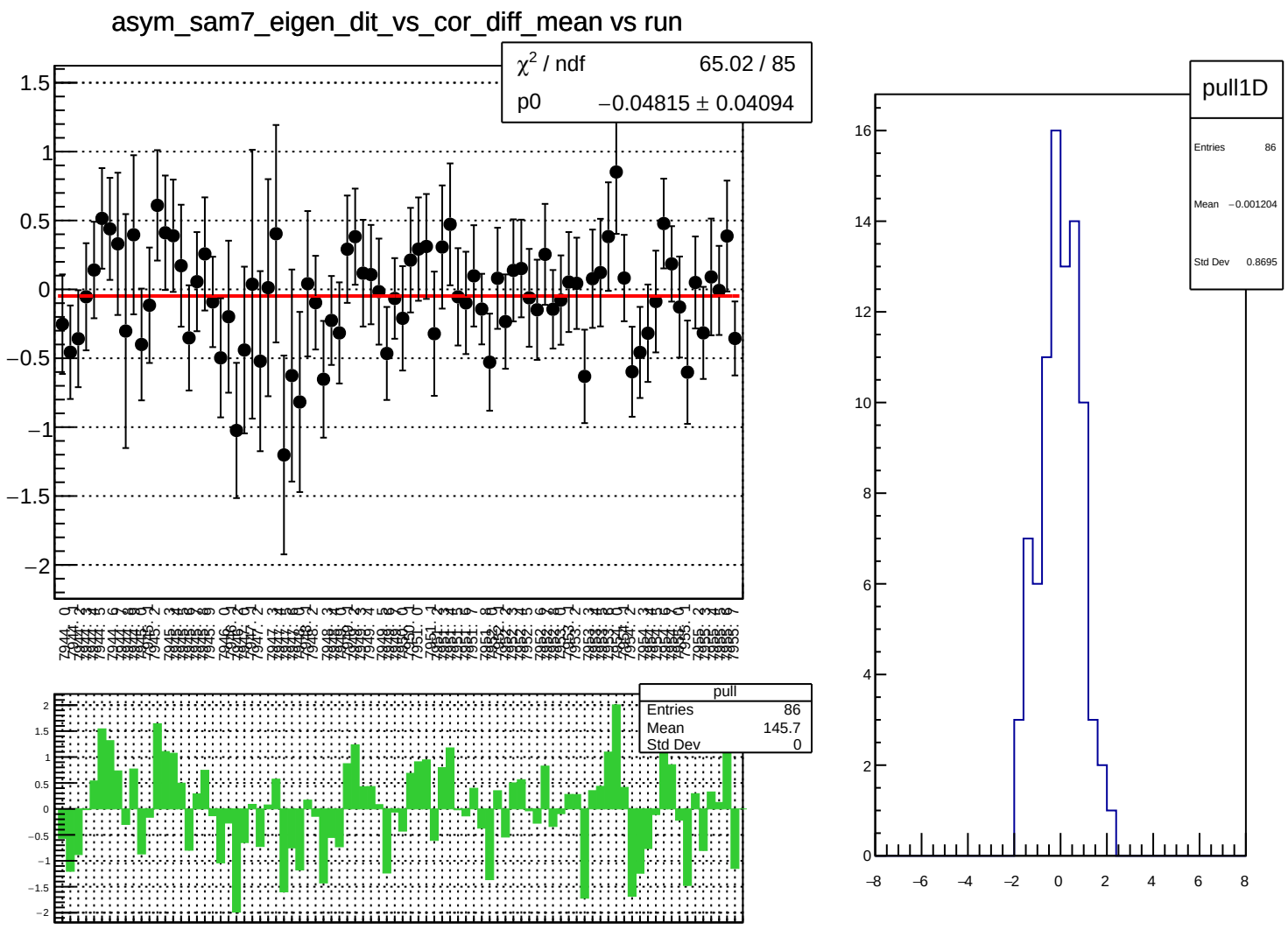

pull1D
Entries 86
Mean −0.001205
Std Dev 0.8695

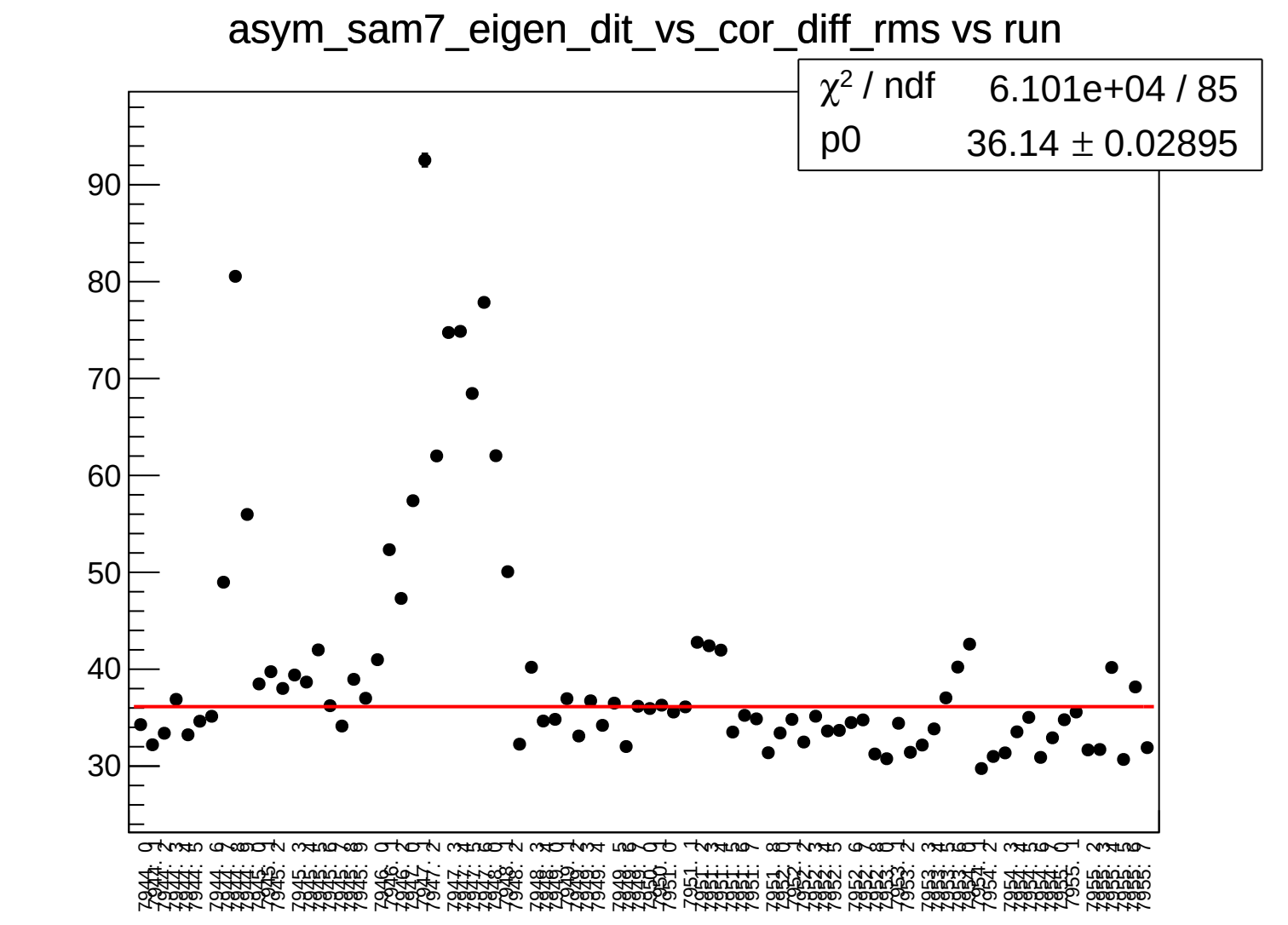

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.101e+04 / 85
p0 36.14 ± 0.02895
90
80
70
60
50
40
30

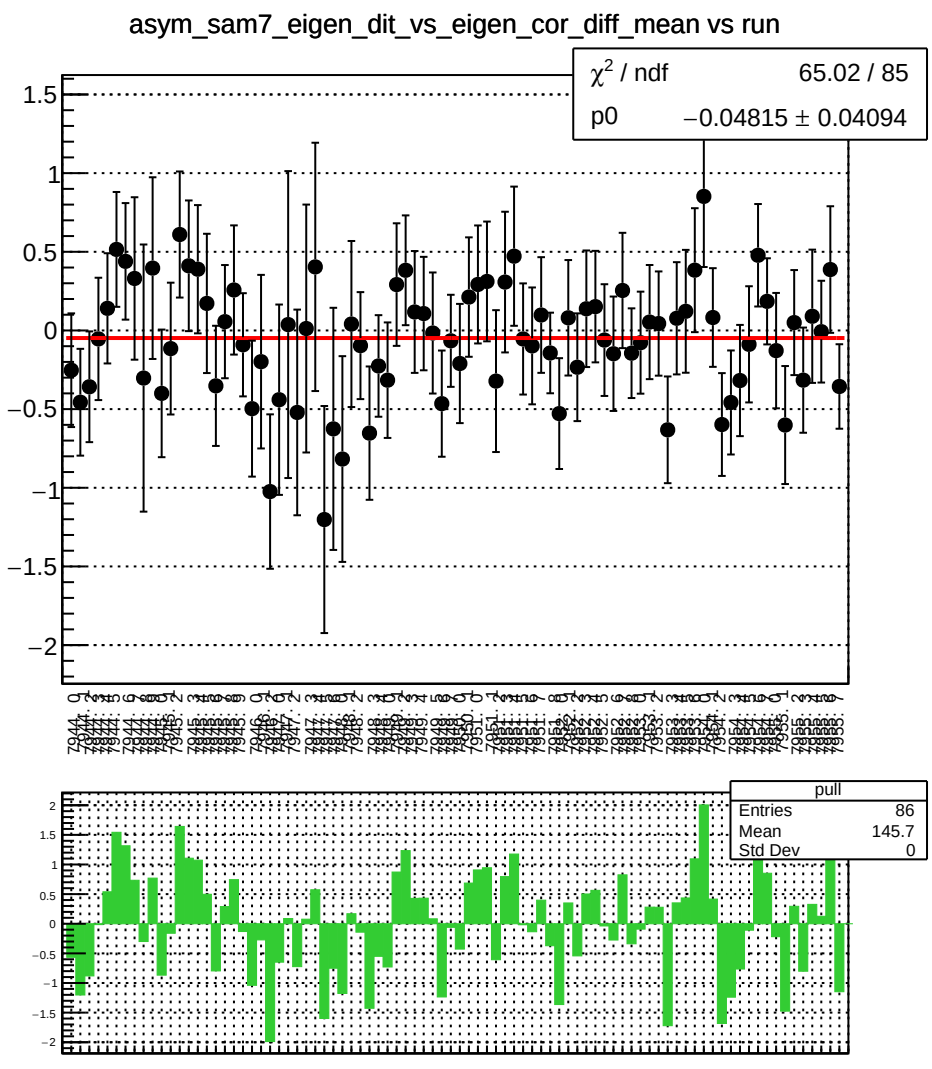

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 97.68 / 85
p0 3.143e−06 ± 3.605e−06
×10⁻³
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 293.8
Std Dev 0
3
2
1
0
−1
−2
−3

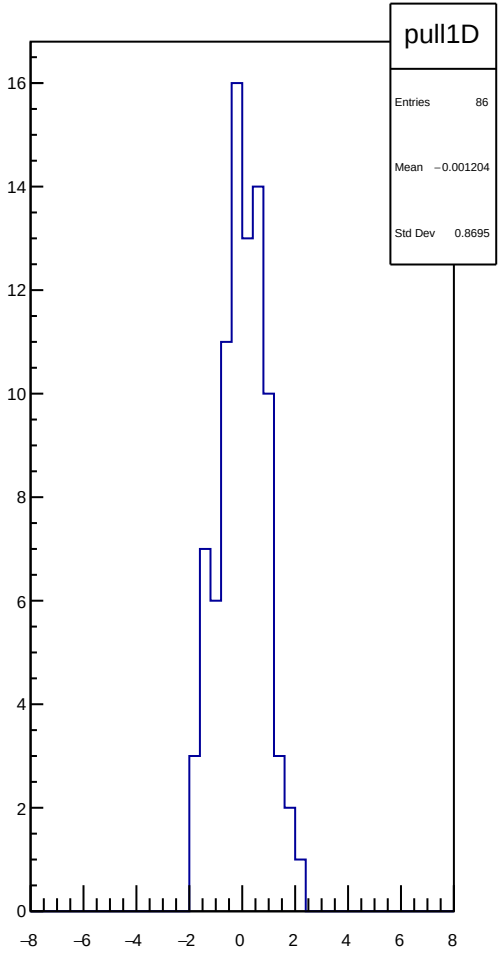

pull1D
Entries 86
Mean −0.01589
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

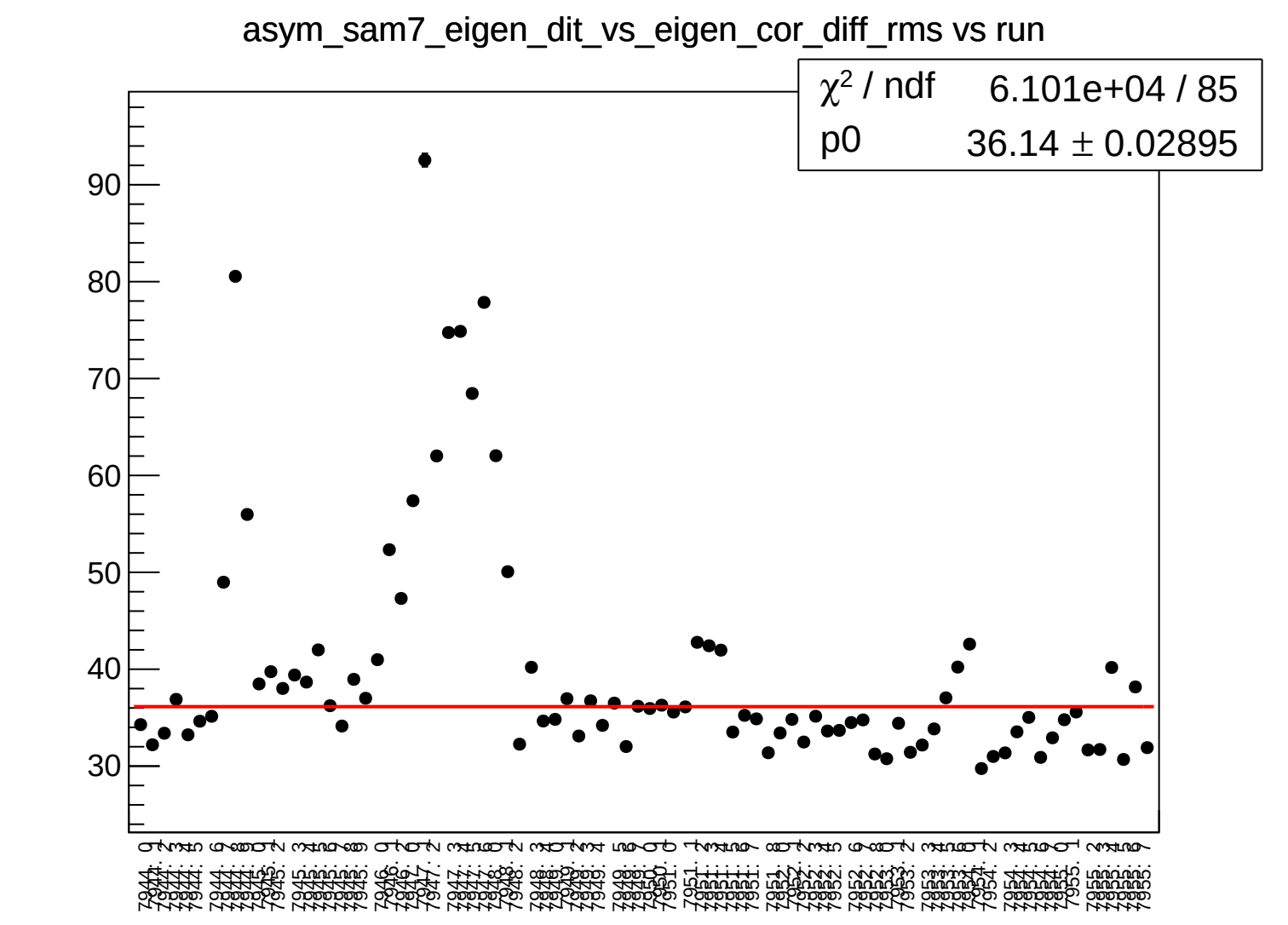

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4530 / 85
p0 0.003239 ± 2.549e−06
0.0036
0.0034
0.0032
0.003
0.0028

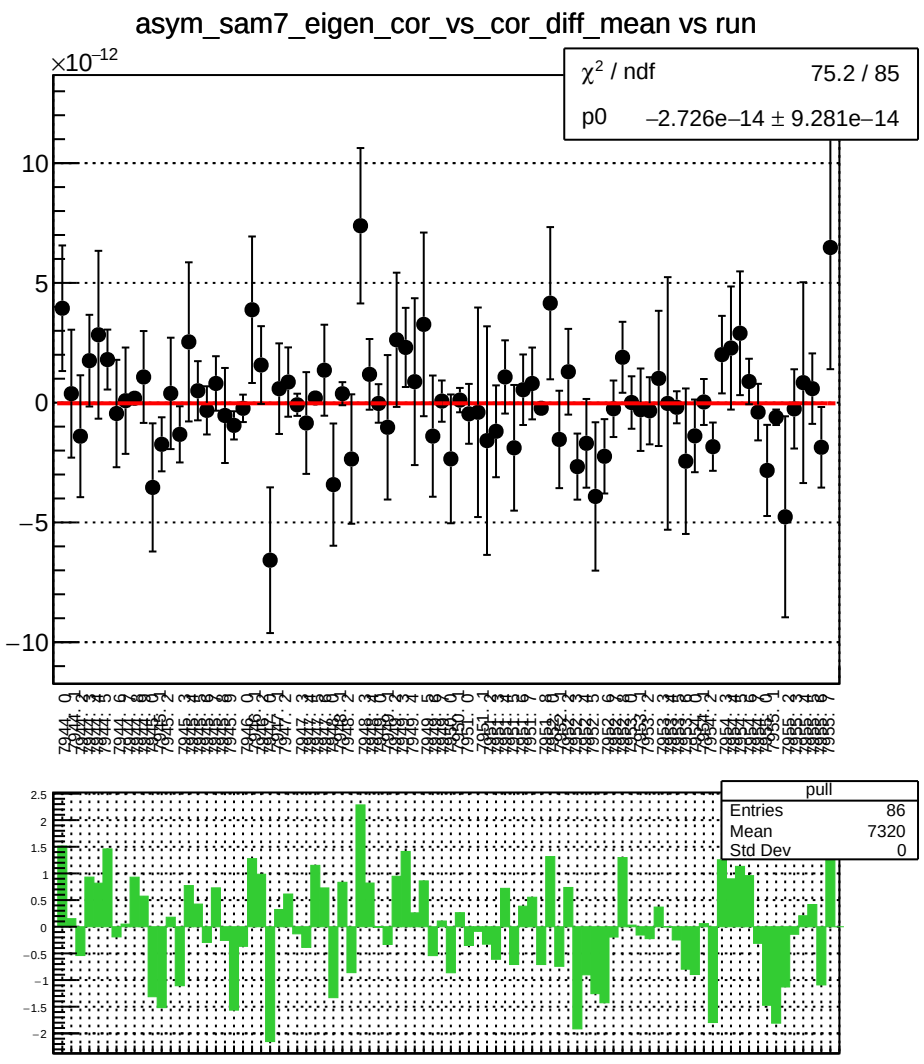

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.02 / 85
p0 −0.04815 ± 0.04094
pull
Entries 86
Mean 145.7
Std Dev 0
pull1D
Entries 86
Mean −0.001204
Std Dev 0.8695

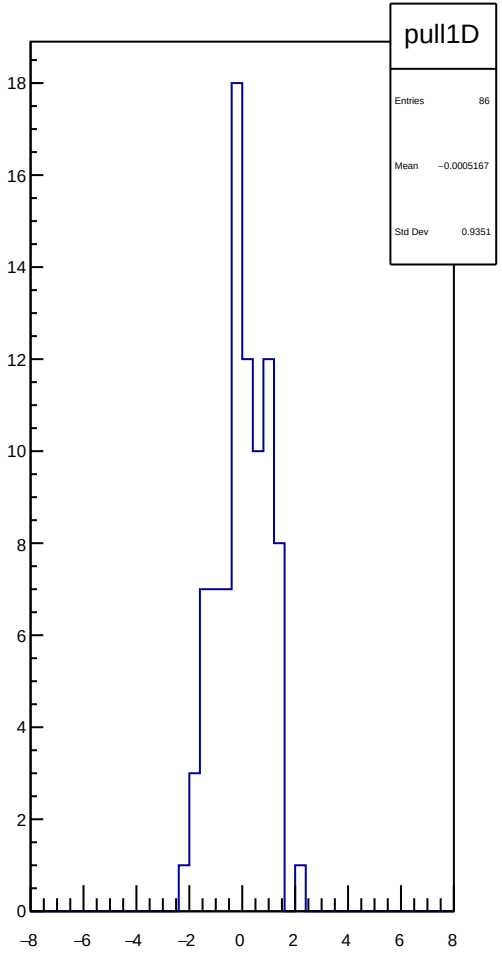

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.101e+04 / 85
p0 36.14 ± 0.02895
90
80
70
60
50
40
30

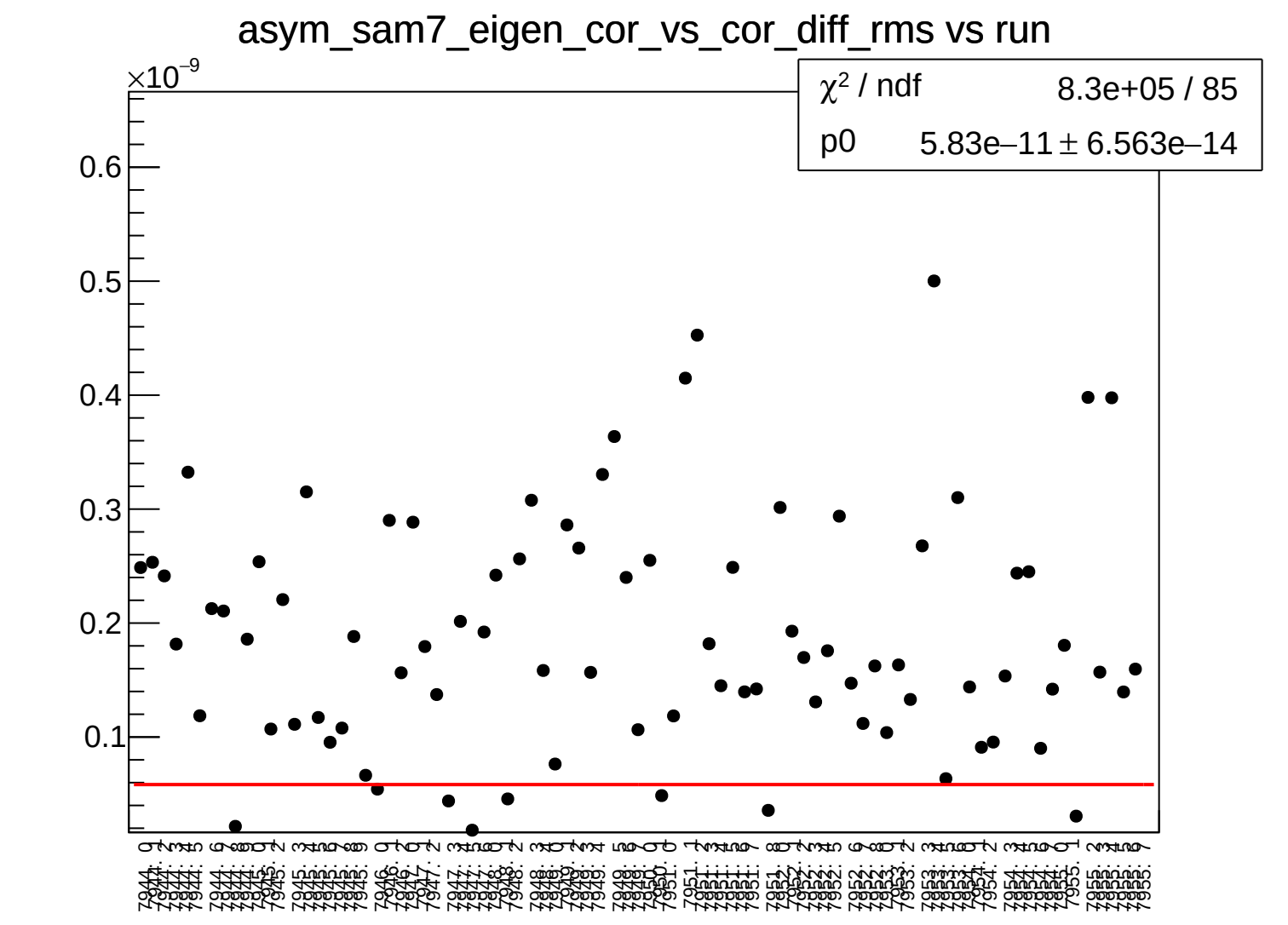

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.02 / 85
p0 −0.04815 ± 0.04094
pull
Entries 86
Mean 145.7
Std Dev 0

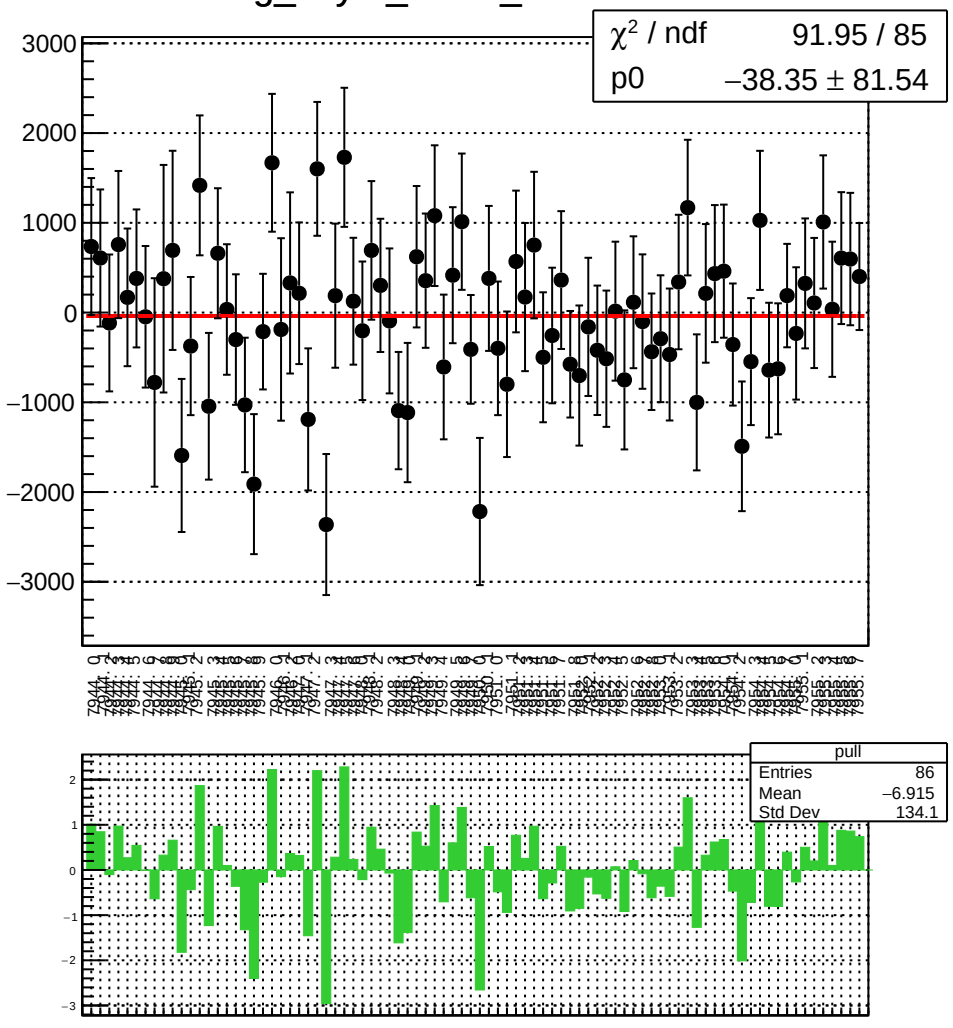

pull1D
Entries 86
Mean −0.001204
Std Dev 0.8695

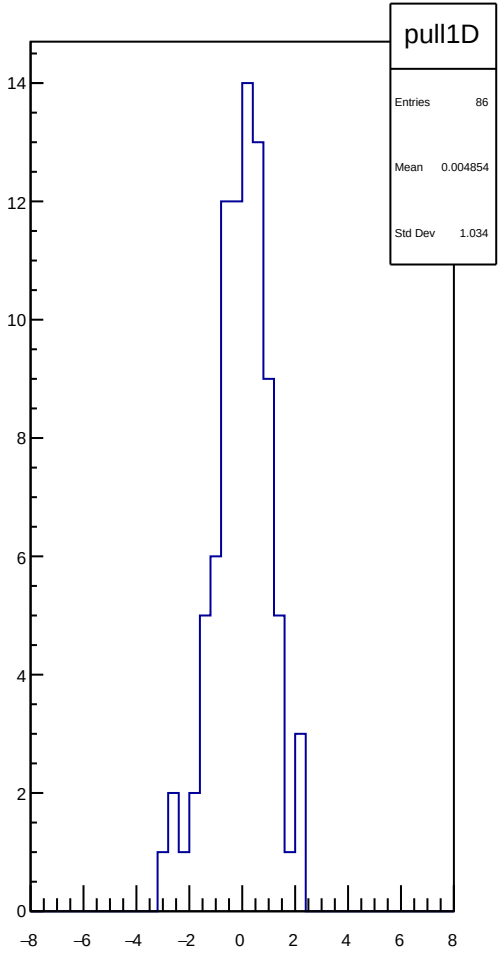

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.101e+04 / 85
p0 36.14 ± 0.02895
90
80
70
60
50
40
30

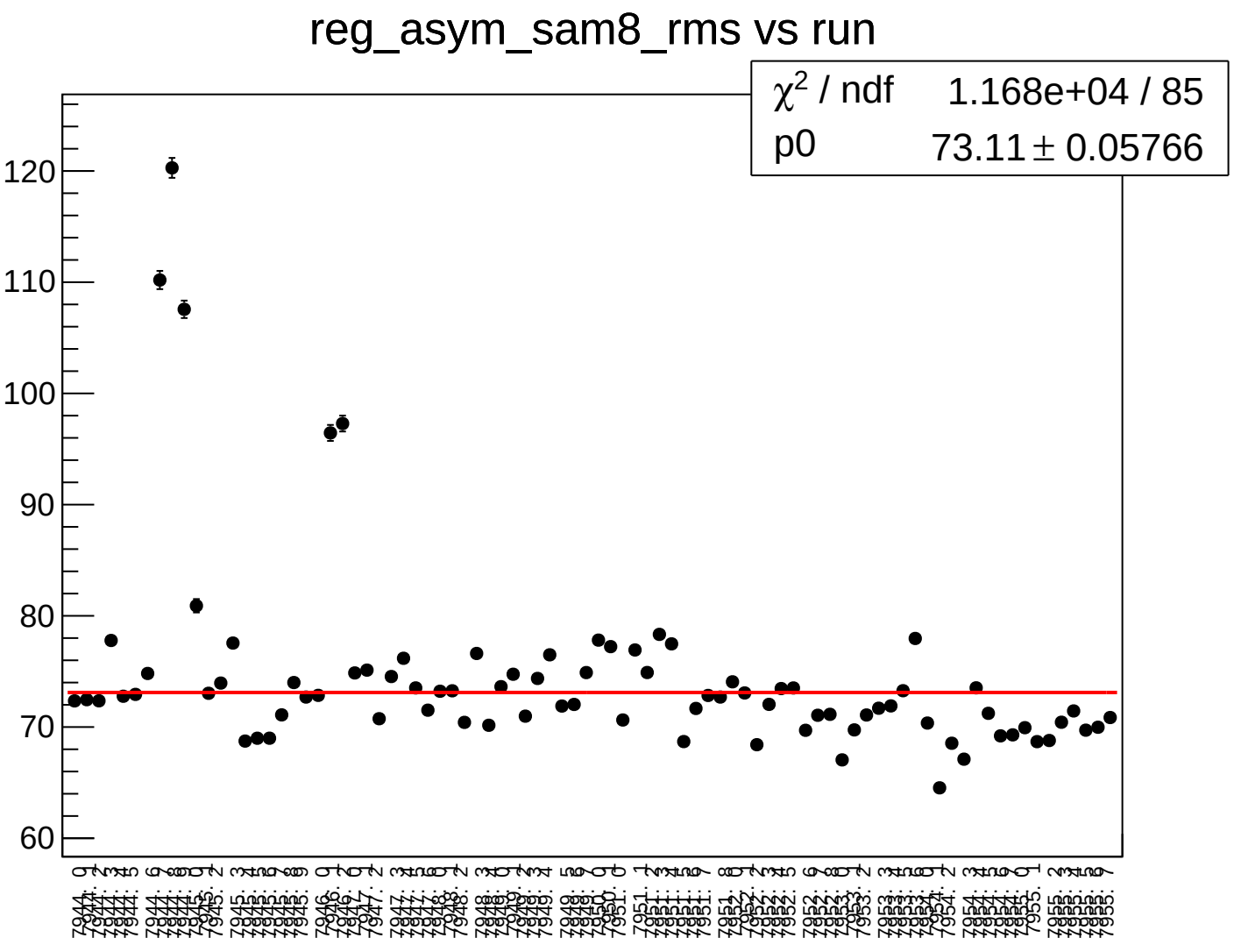

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.2 / 85
p0 −2.726e−14 ± 9.281e−14
pull
Entries 86
Mean 7320
Std Dev 0

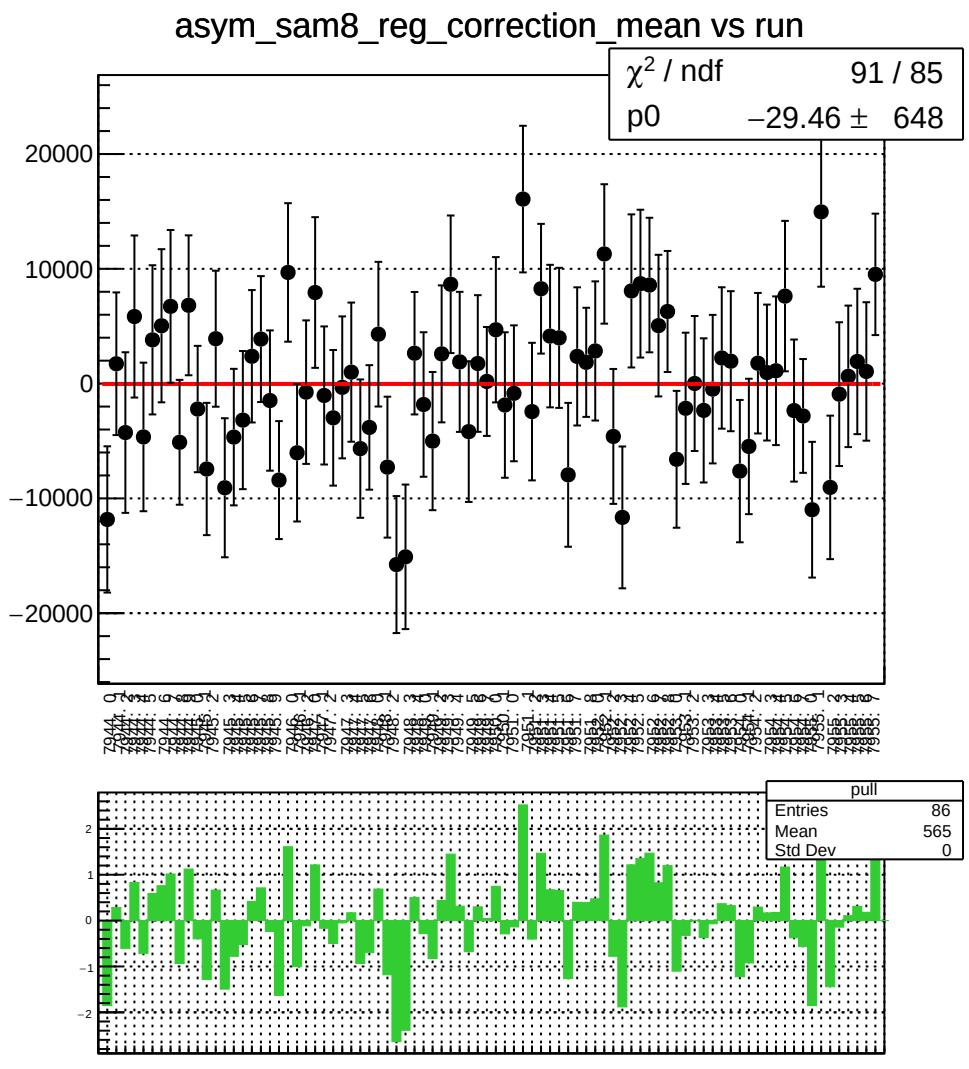

pull1D
Entries 86
Mean −0.0005167
Std Dev 0.9351

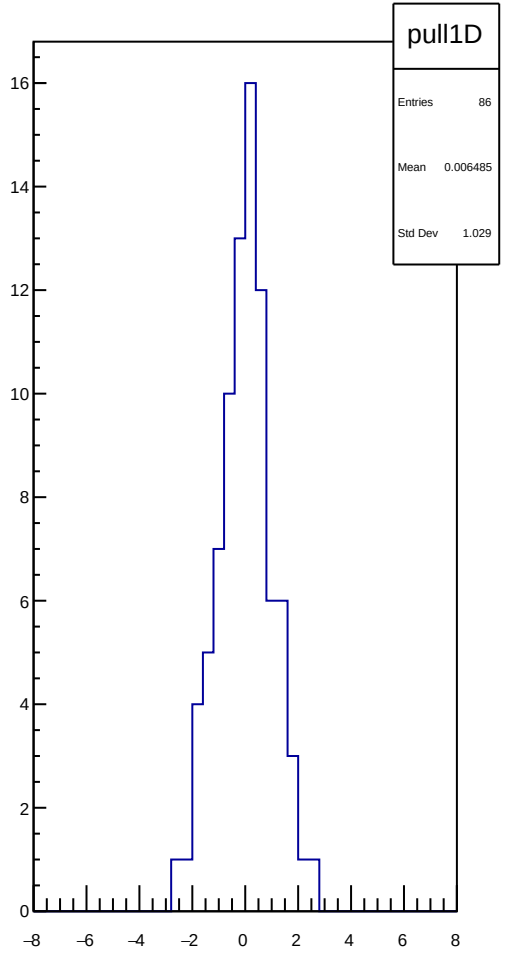

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.3e+05 / 85
p0 5.83e−11 ± 6.563e−14
0.6
0.5
0.4
0.3
0.2
0.1

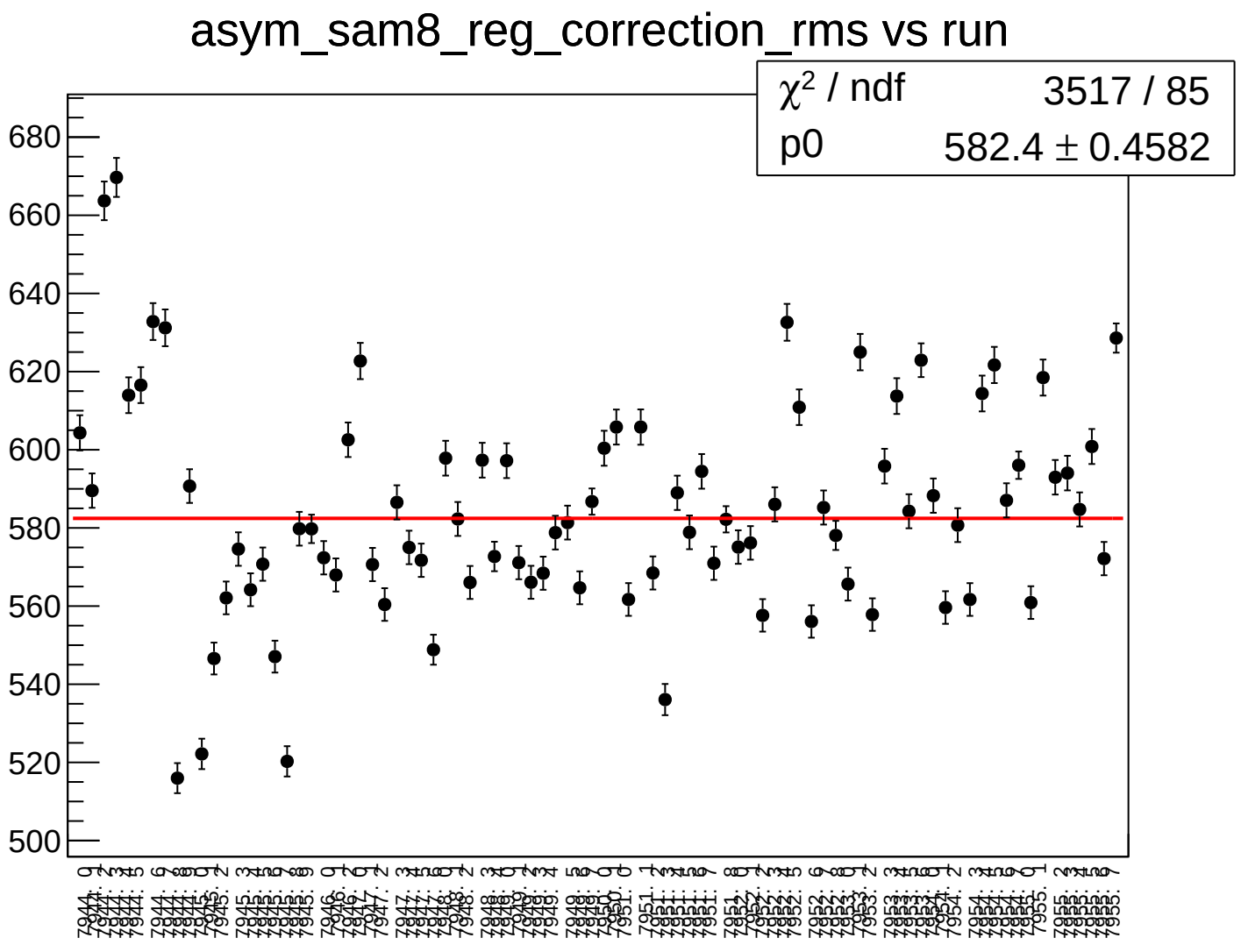

reg_asym_sam8_mean vs run
χ² / ndf 91.95 / 85
p0 −38.35 ± 81.54
pull
Entries 86
Mean −6.915
Std Dev 134.1

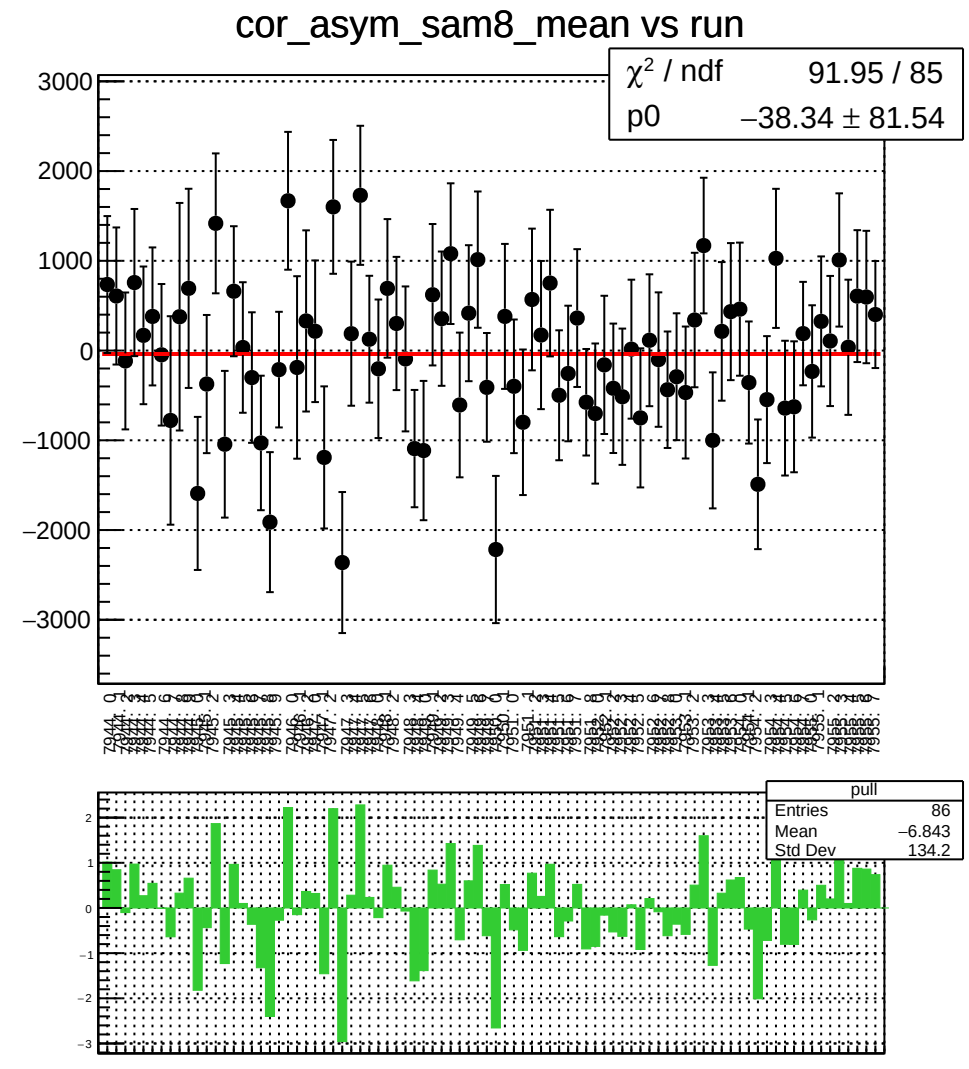

pull1D
Entries 86
Mean 0.004854
Std Dev 1.034

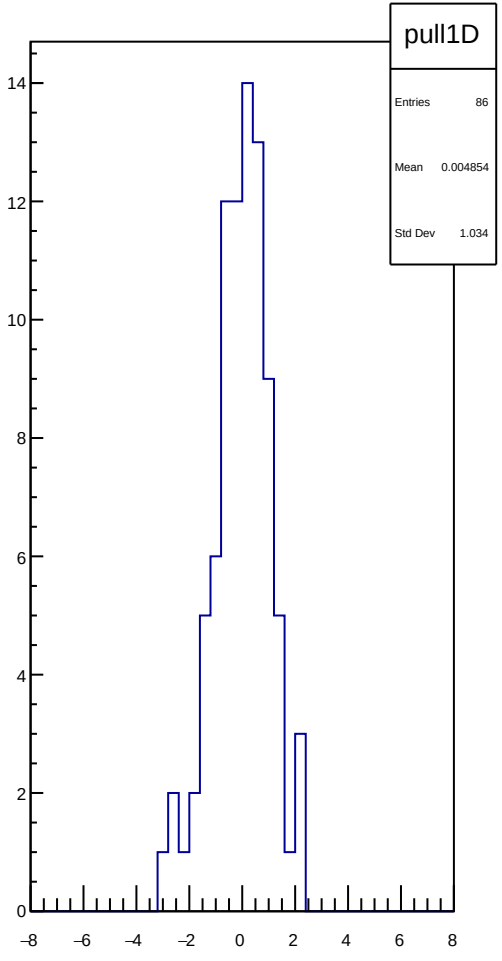

reg_asym_sam8_rms vs run
χ^2 / ndf 1.168e+04 / 85
p0 73.11 ± 0.05766
120
110
100
90
80
70
60

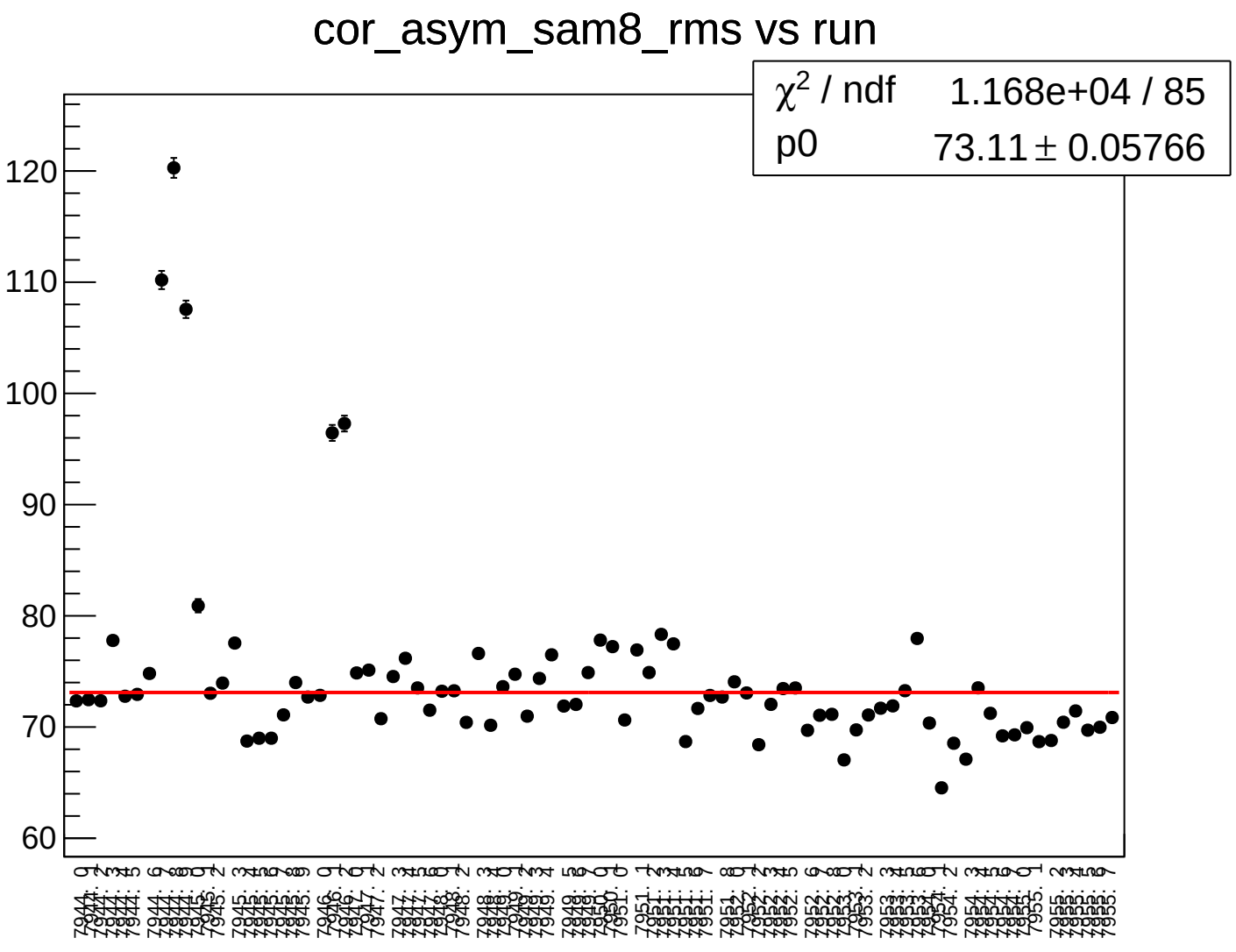

asym_sam8_reg_correction_mean vs run
χ² / ndf 91 / 85
p0 −29.46 ± 648
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 565
Std Dev 0
2
1
0
−1
−2

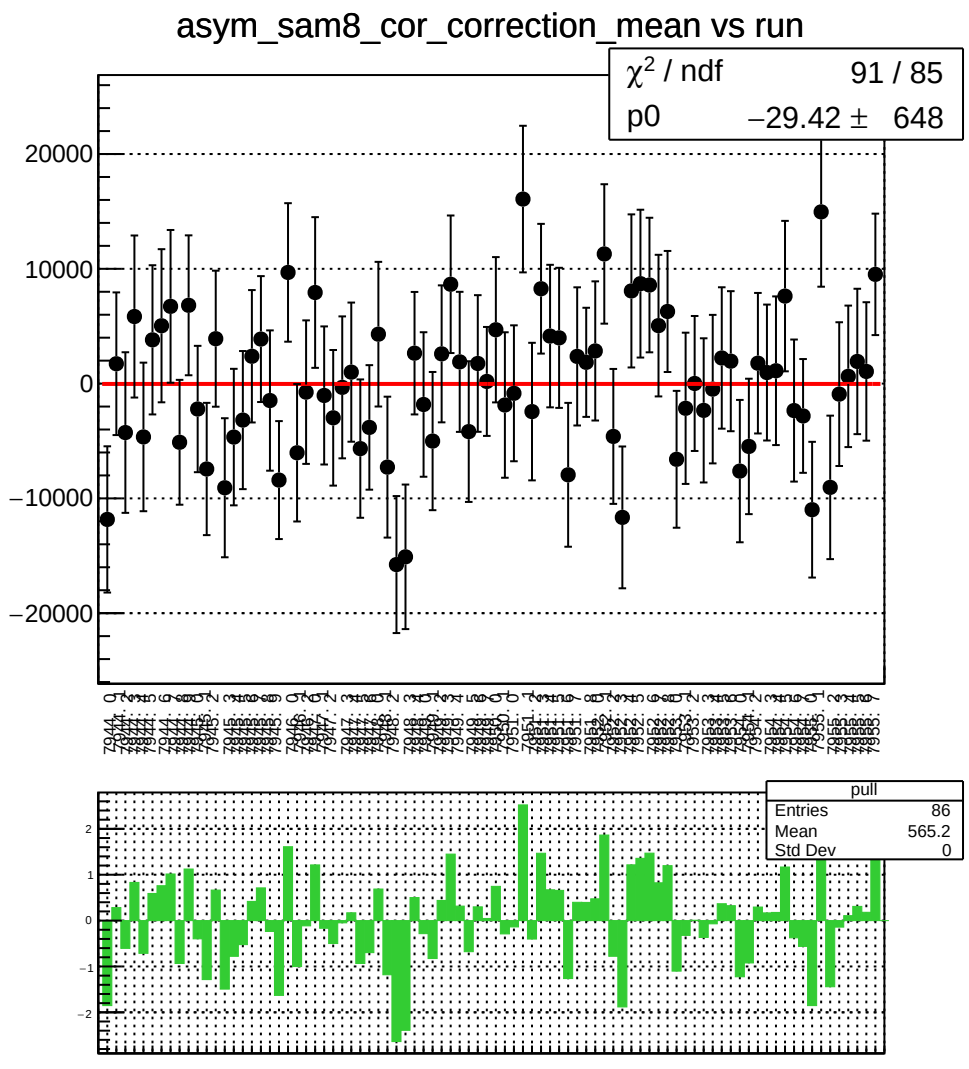

pull1D
Entries 86
Mean 0.006485
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

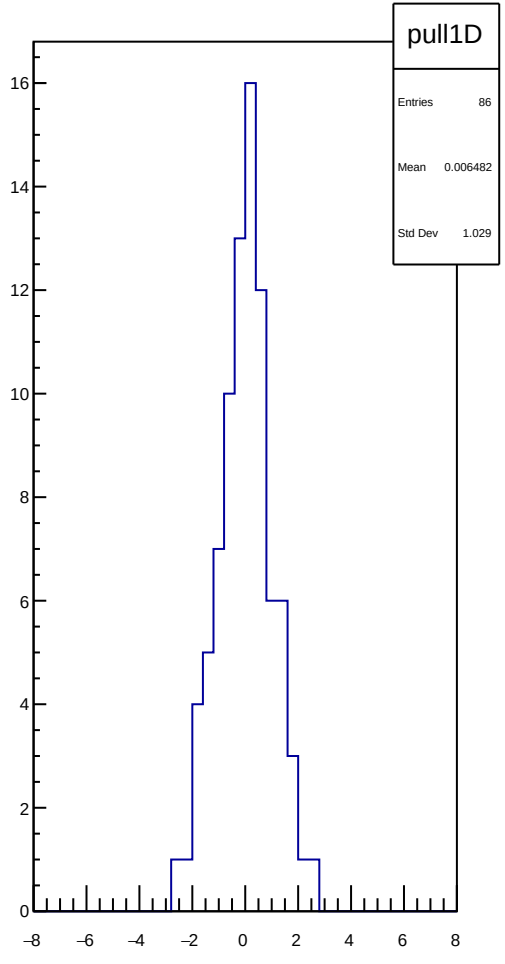

asym_sam8_reg_correction_rms vs run
χ² / ndf 3517 / 85
p0 582.4 ± 0.4582
680
660
640
620
600
580
560
540
520
500

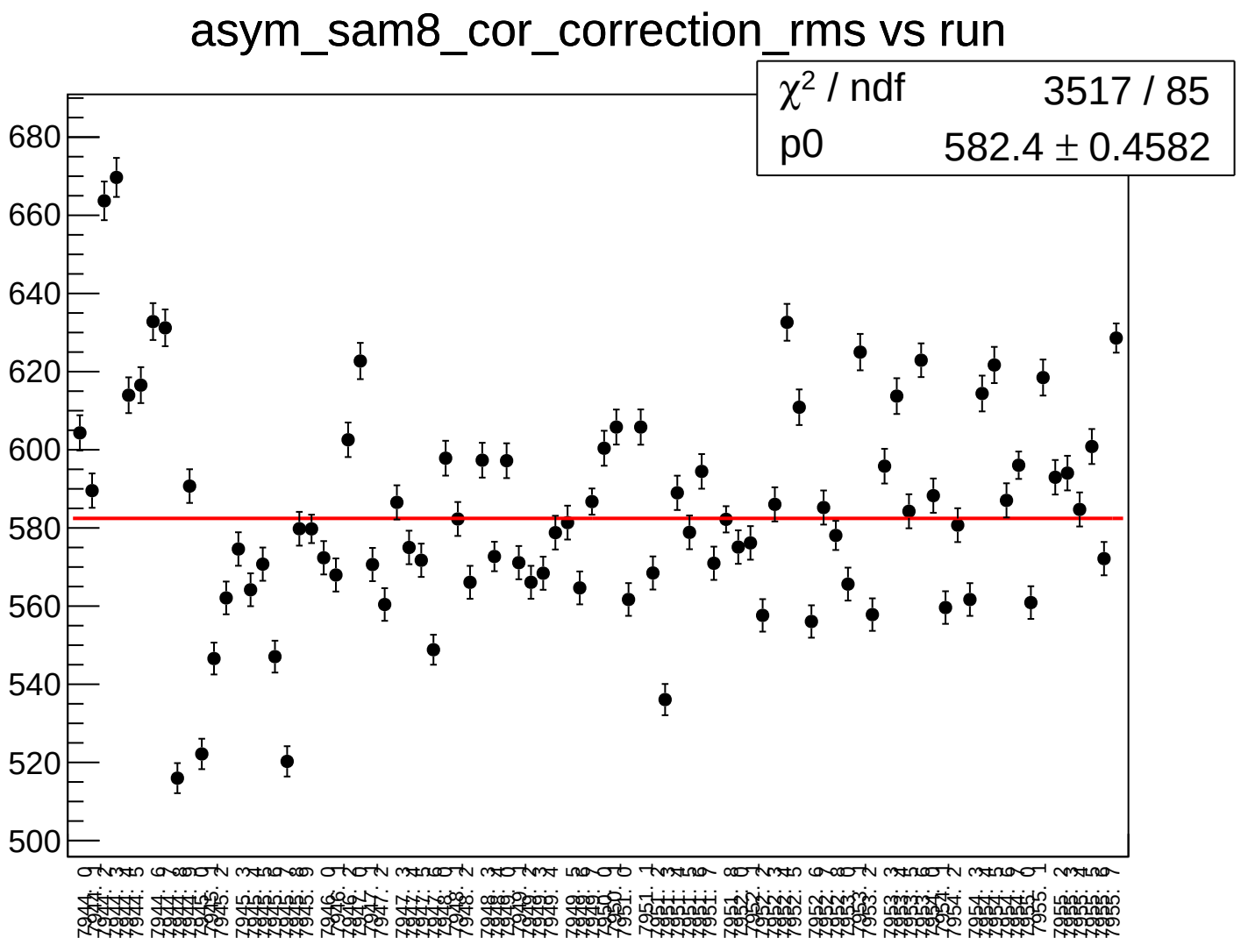

cor_asym_sam8_mean vs run
χ² / ndf 91.95 / 85
p0 −38.34 ± 81.54
pull
Entries 86
Mean −6.843
Std Dev 134.2

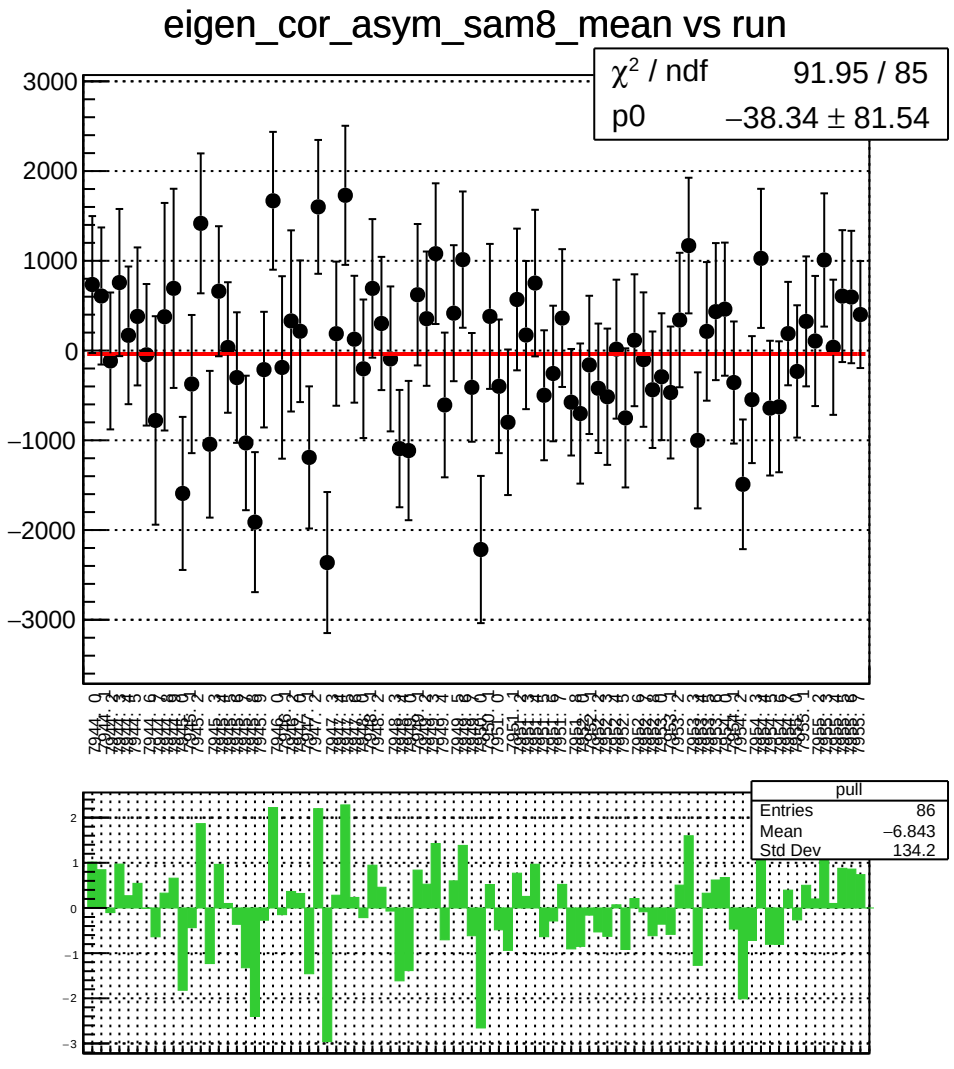

pull1D
Entries 86
Mean 0.004854
Std Dev 1.034

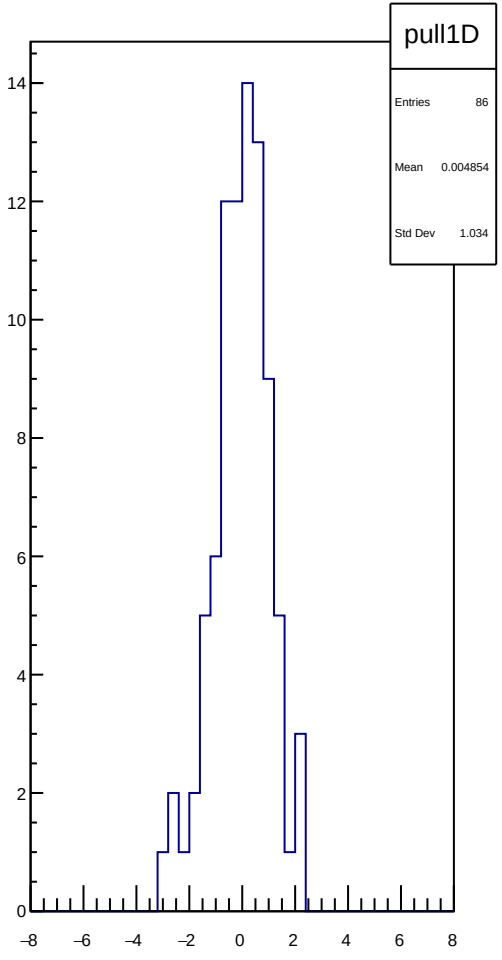

cor_asym_sam8_rms vs run
χ^2 / ndf 1.168e+04 / 85
p0 73.11 ± 0.05766
120
110
100
90
80
70
60

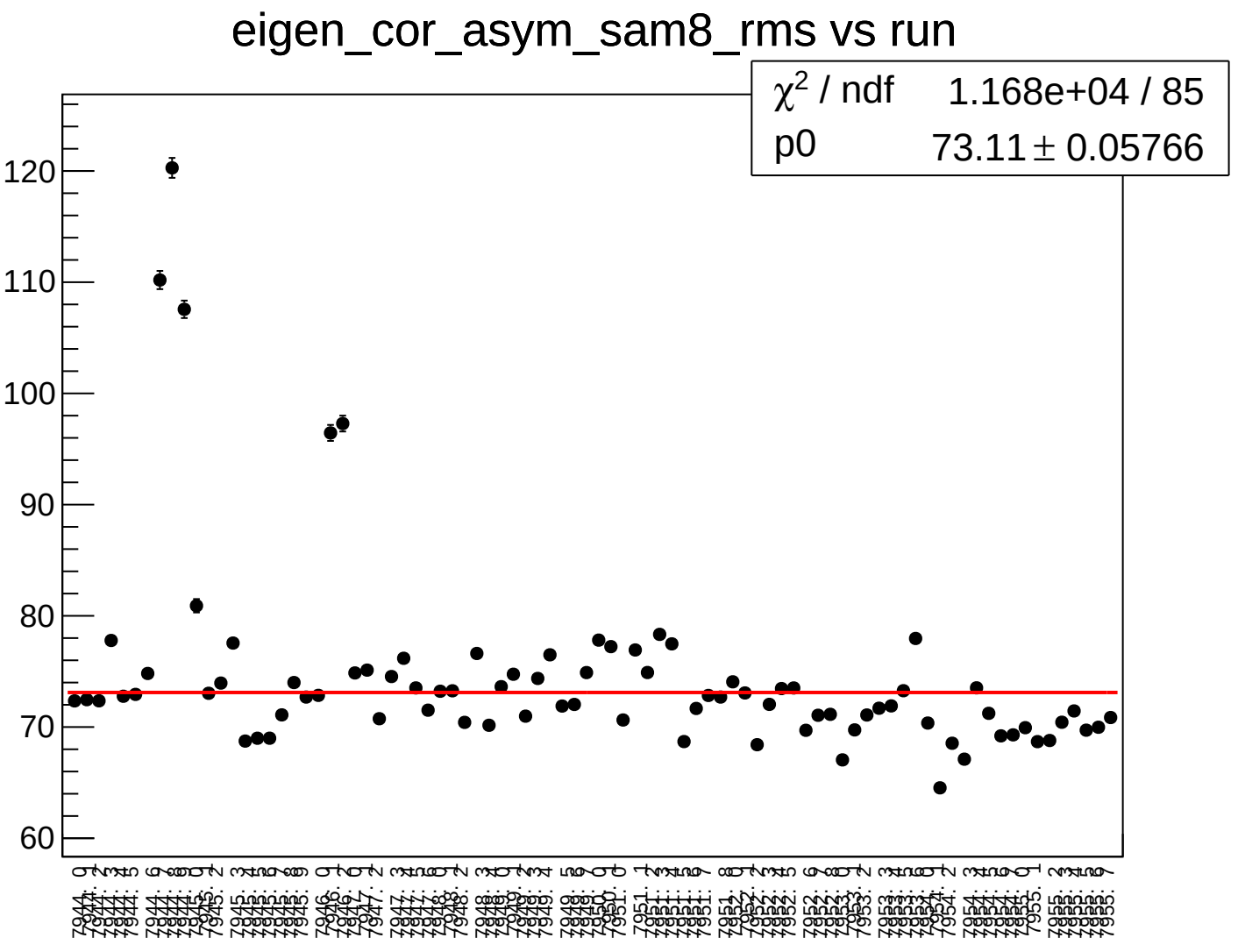

asym_sam8_cor_correction_mean vs run
χ² / ndf 91 / 85
p0 −29.42 ± 648
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 565.2
Std Dev 0
2
1
0
−1
−2

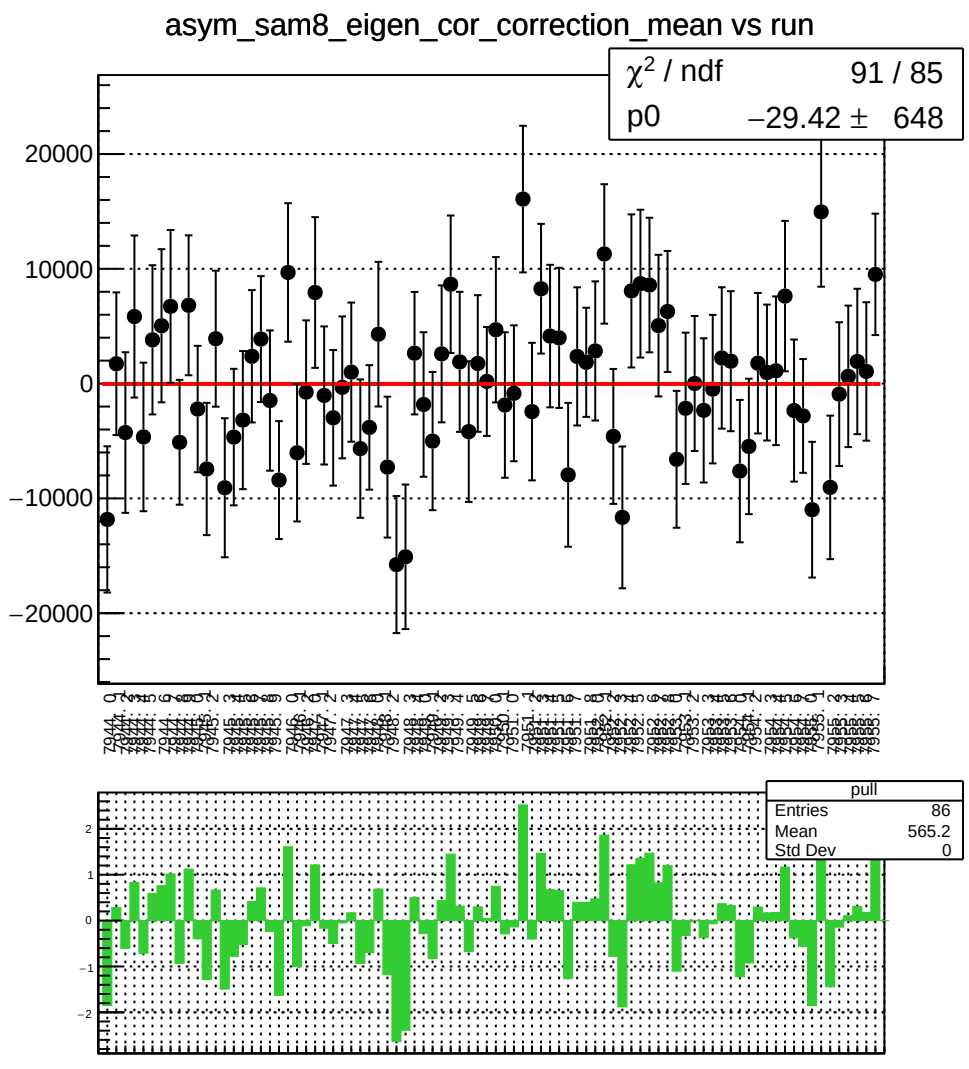

pull1D
Entries 86
Mean 0.006482
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

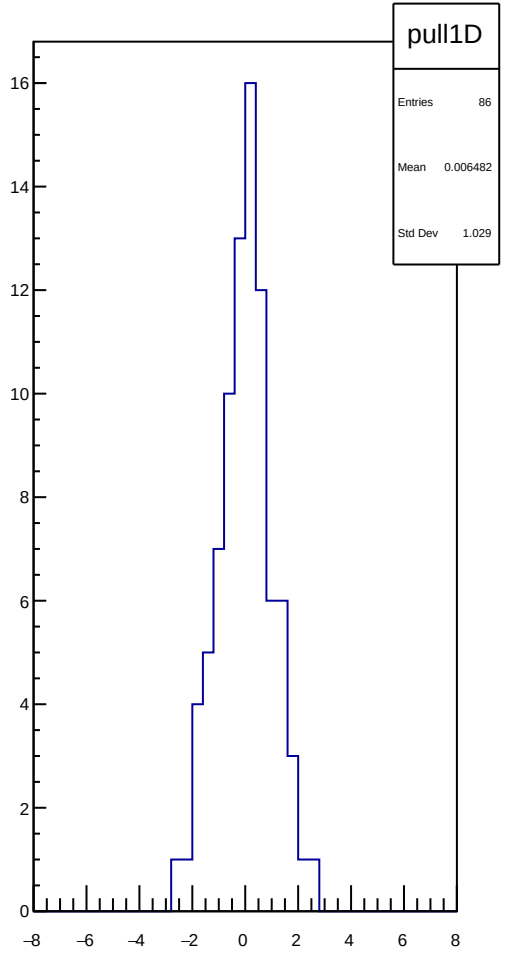

asym_sam8_cor_correction_rms vs run
χ² / ndf 3517 / 85
p0 582.4 ± 0.4582
680
660
640
620
600
580
560
540
520
500

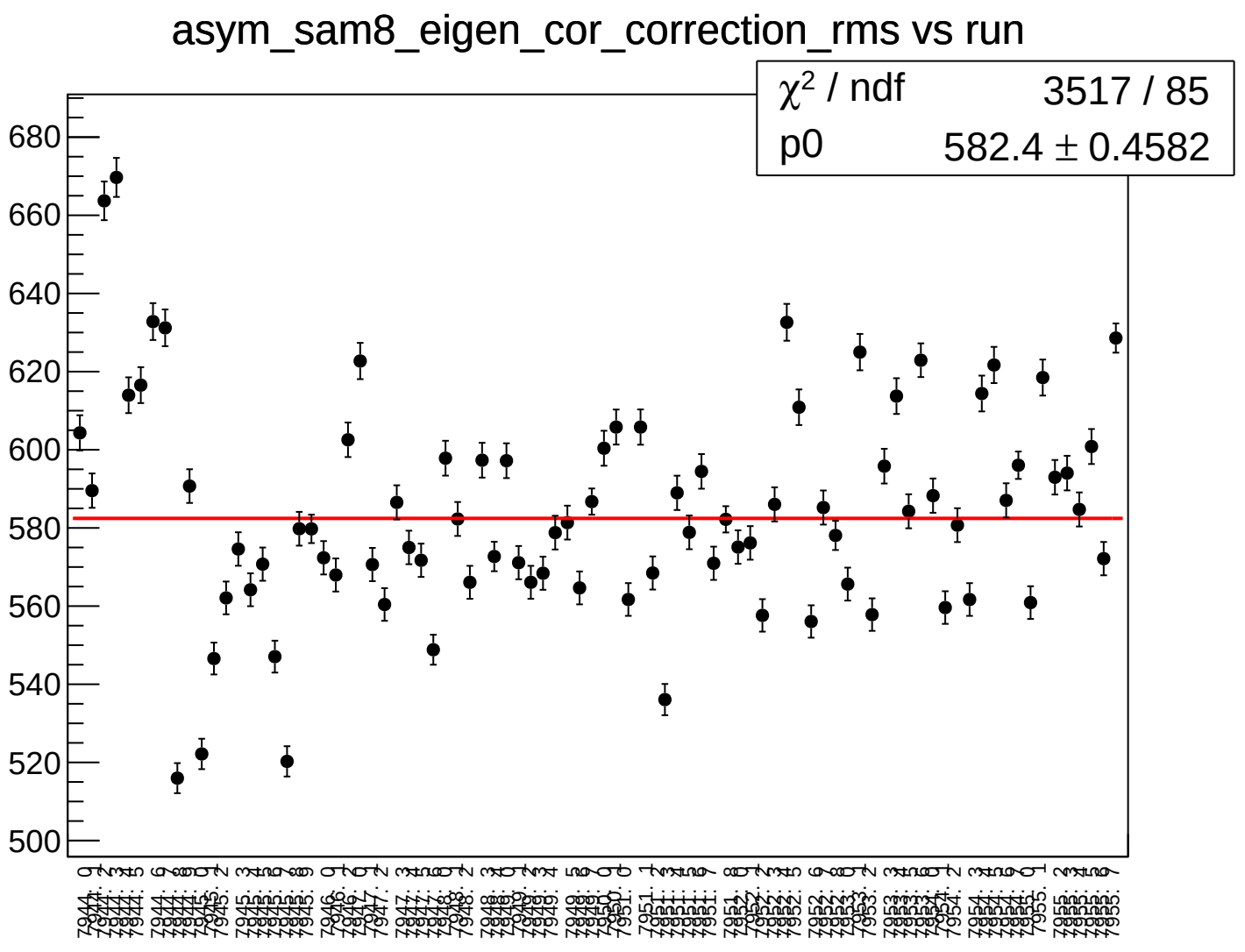

eigen_cor_asym_sam8_mean vs run
χ² / ndf 91.95 / 85
p0 −38.34 ± 81.54
pull
Entries 86
Mean −6.843
Std Dev 134.2

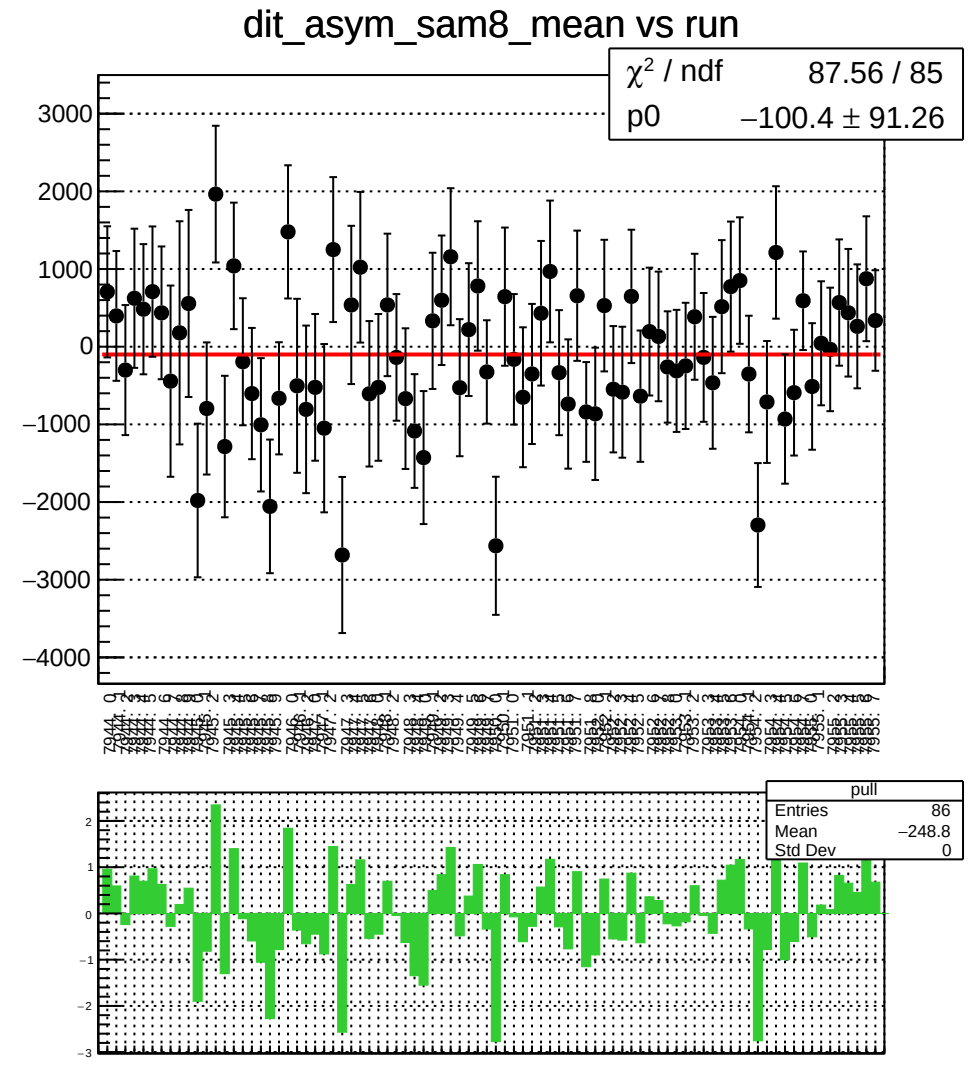

pull1D
Entries 86
Mean 0.004854
Std Dev 1.034

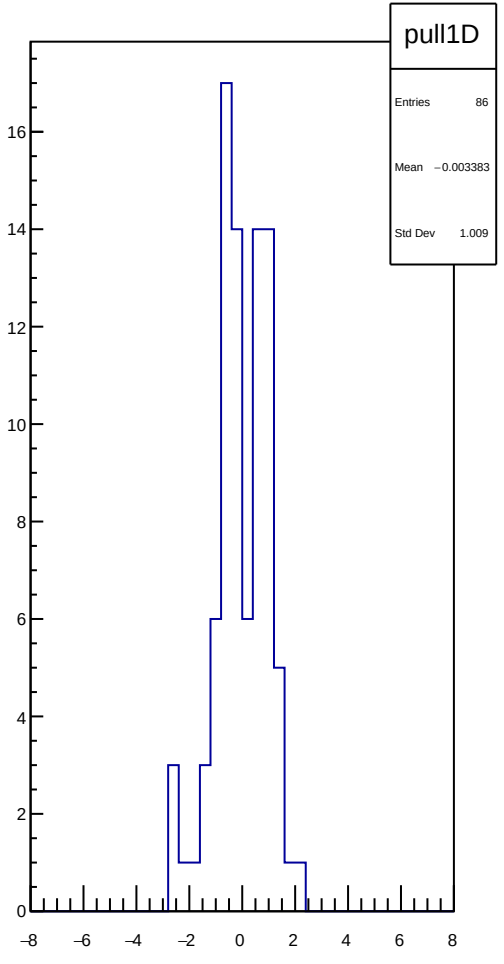

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 1.168e+04 / 85
p0 73.11 ± 0.05766
120
110
100
90
80
70
60

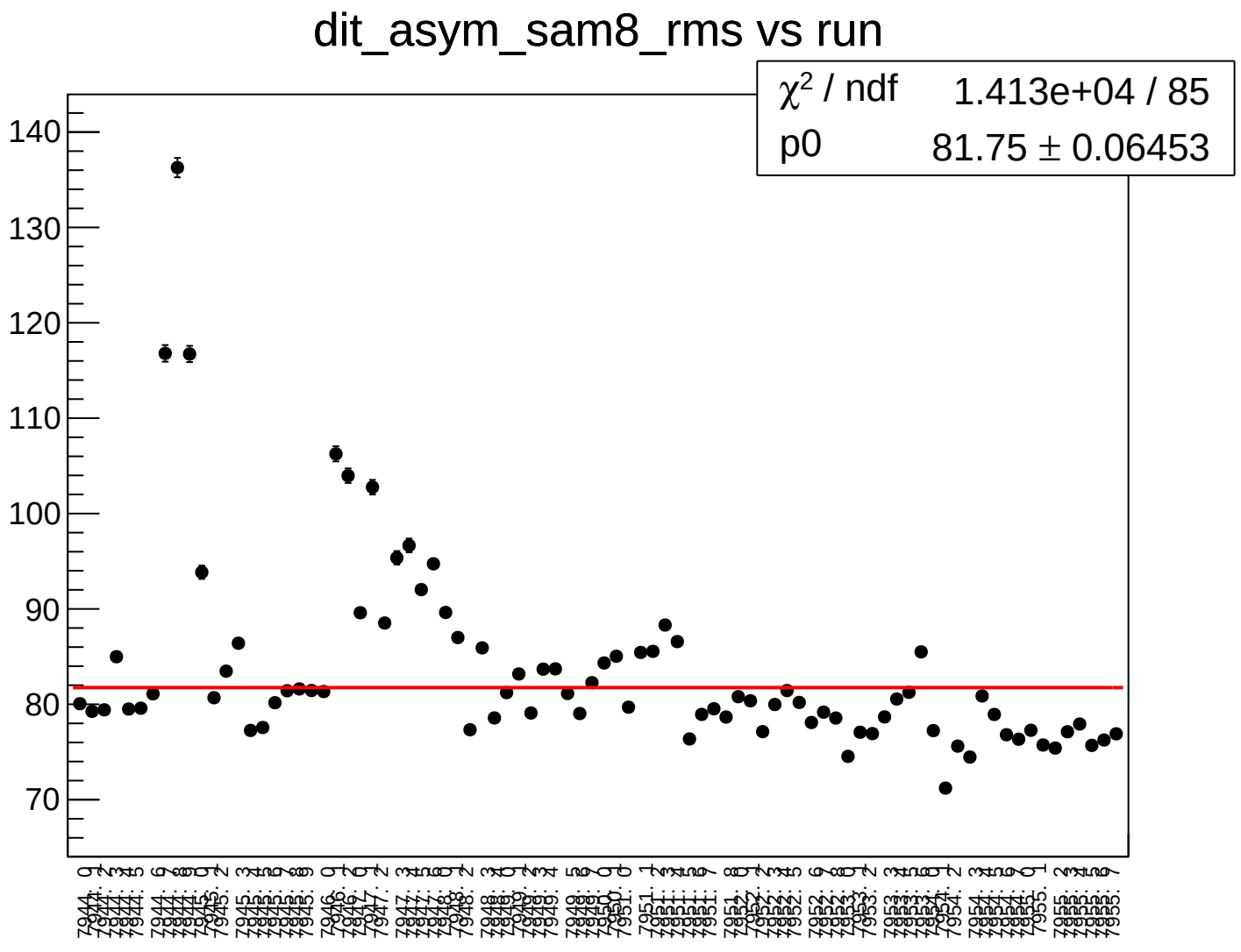

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 91 / 85
p0 −29.42 ± 648
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 565.2
Std Dev 0
2
1
0
−1
−2

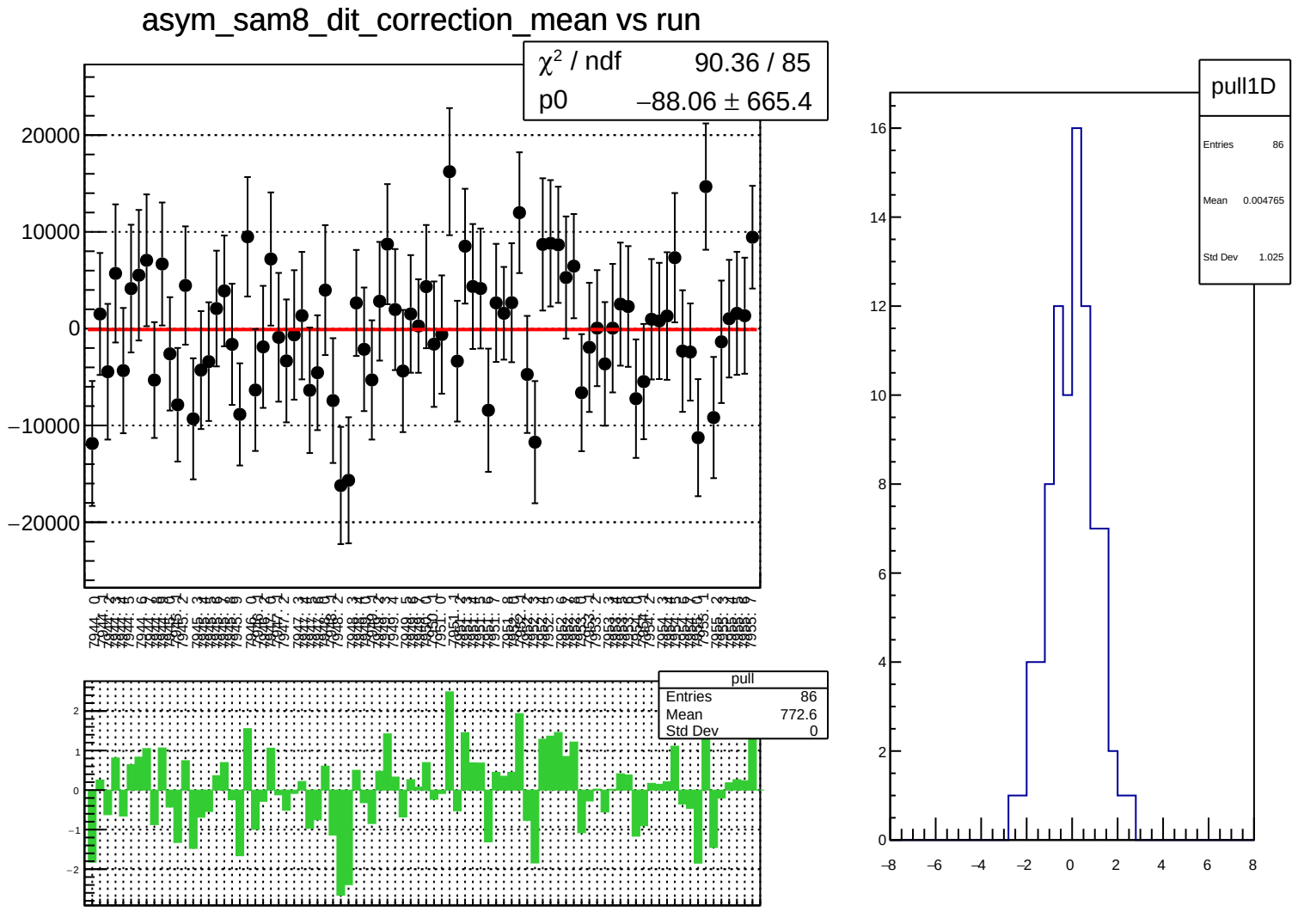

pull1D
Entries 86
Mean 0.006482
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

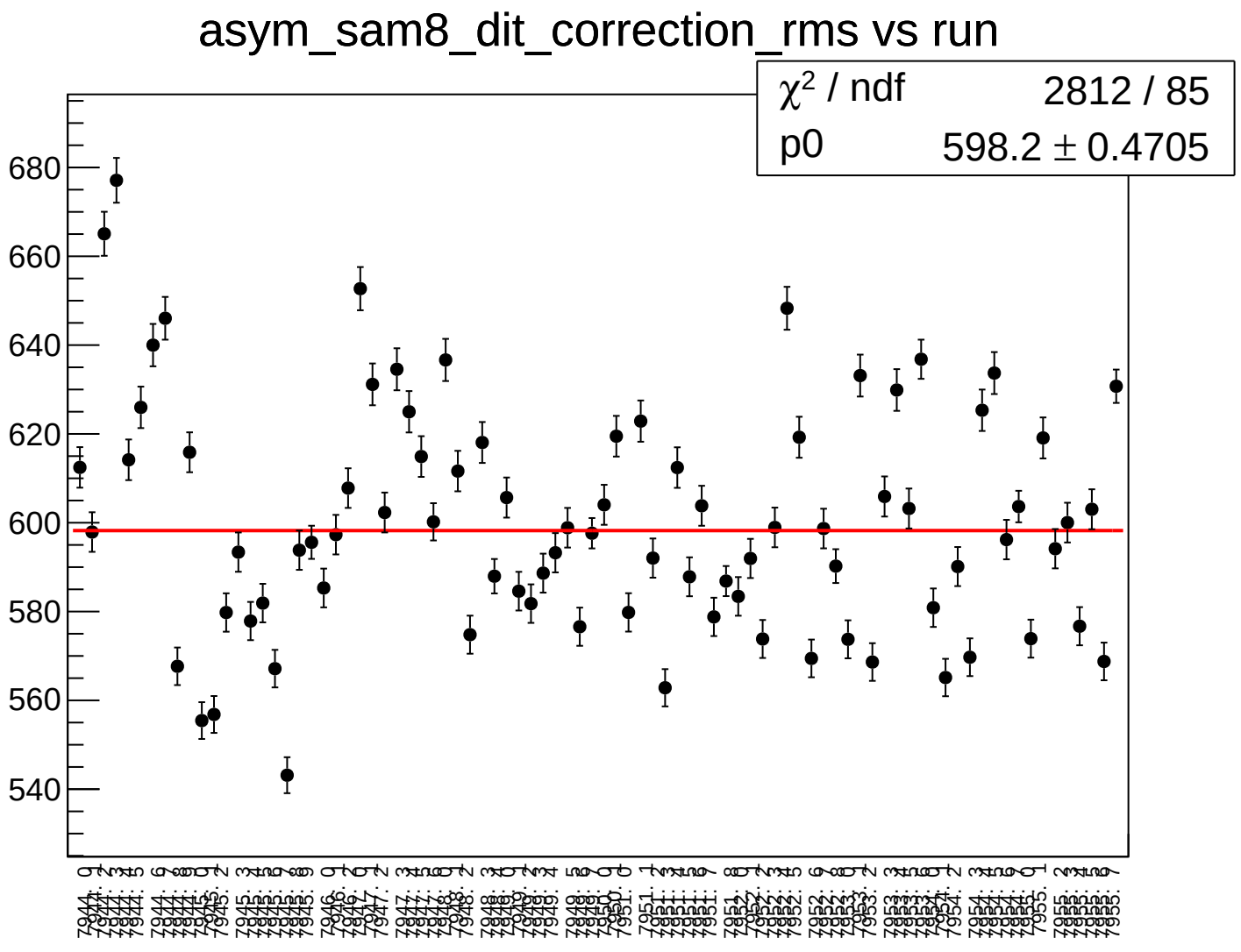

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 3517 / 85
p0 582.4 ± 0.4582
680
660
640
620
600
580
560
540
520
500

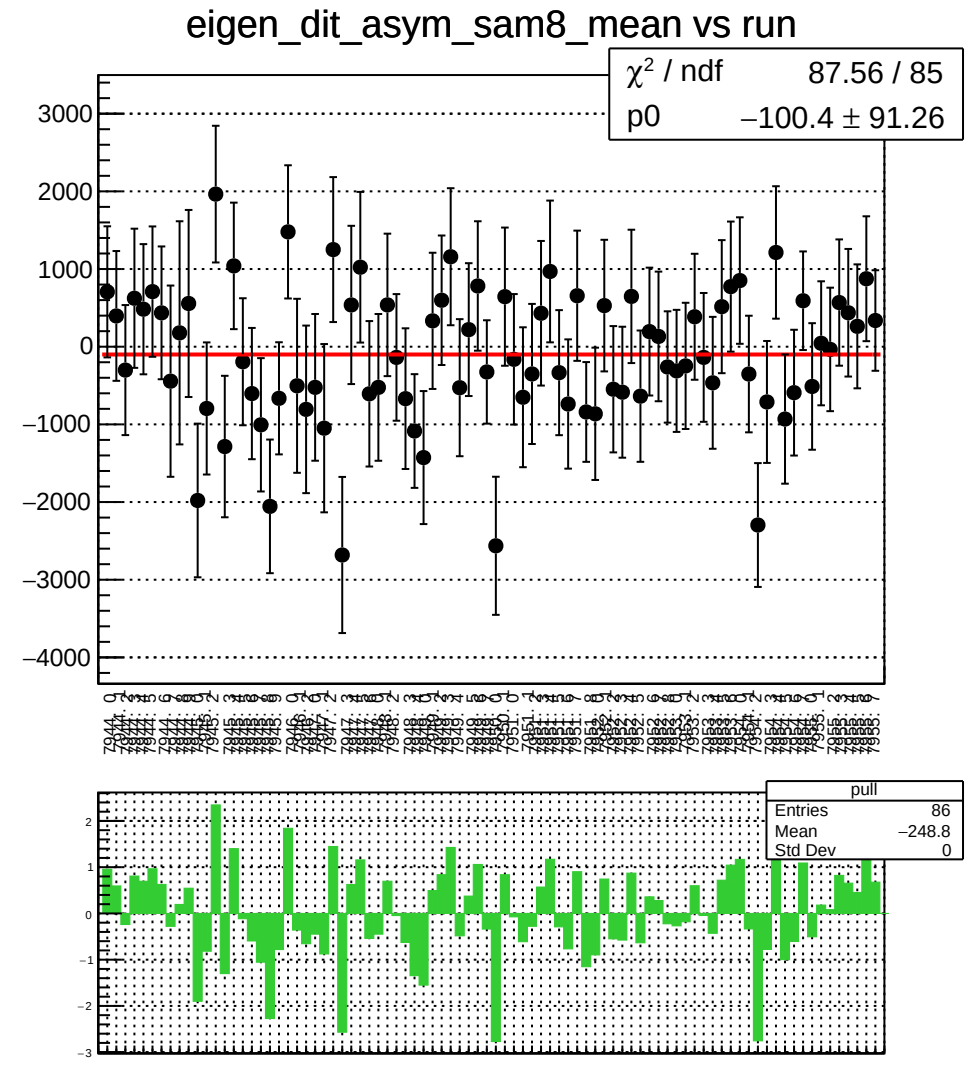

dit_asym_sam8_mean vs run
χ^2 / ndf 87.56 / 85
p0 −100.4 ± 91.26
pull
Entries 86
Mean −248.8
Std Dev 0

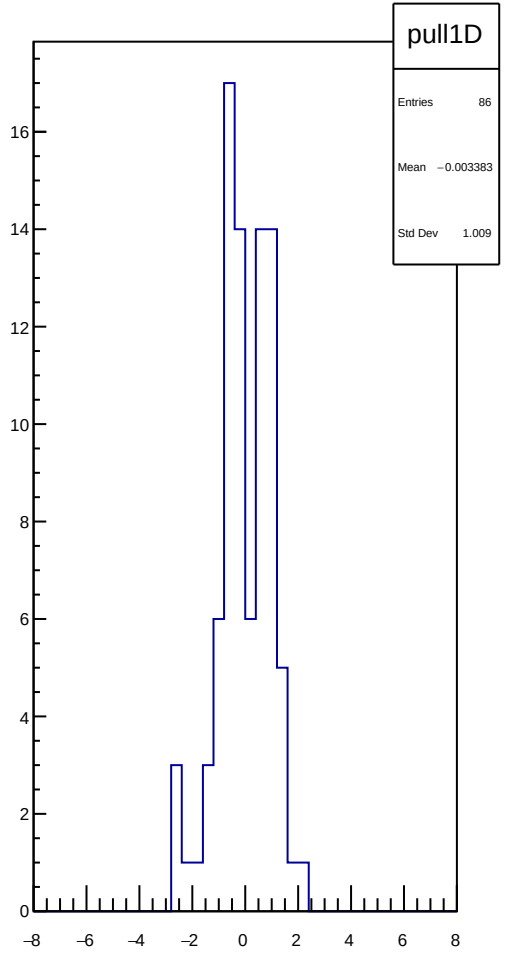

pull1D
Entries 86
Mean −0.003383
Std Dev 1.009

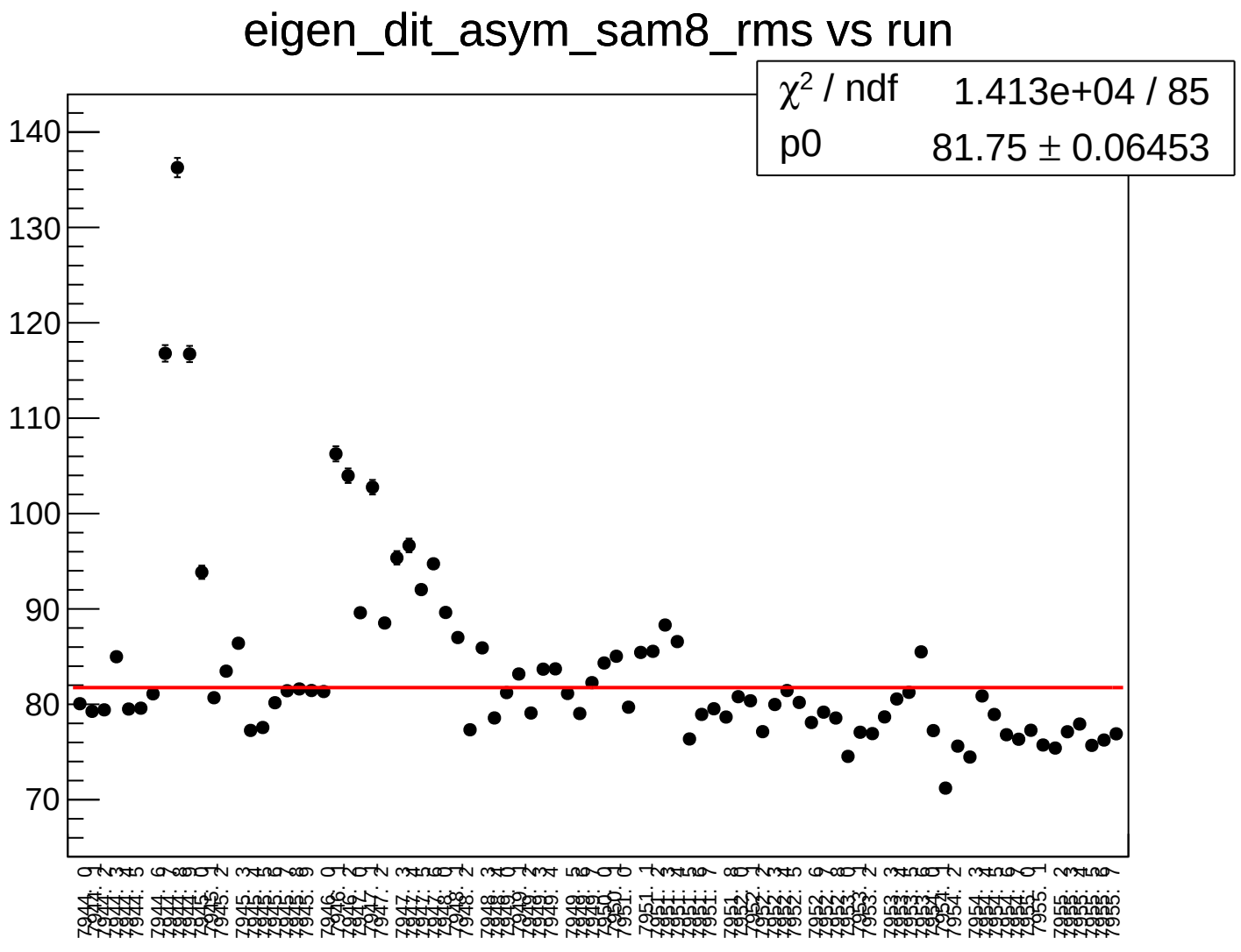

dit_asym_sam8_rms vs run
χ^2 / ndf 1.413e+04 / 85
p0 81.75 ± 0.06453
140
130
120
110
100
90
80
70

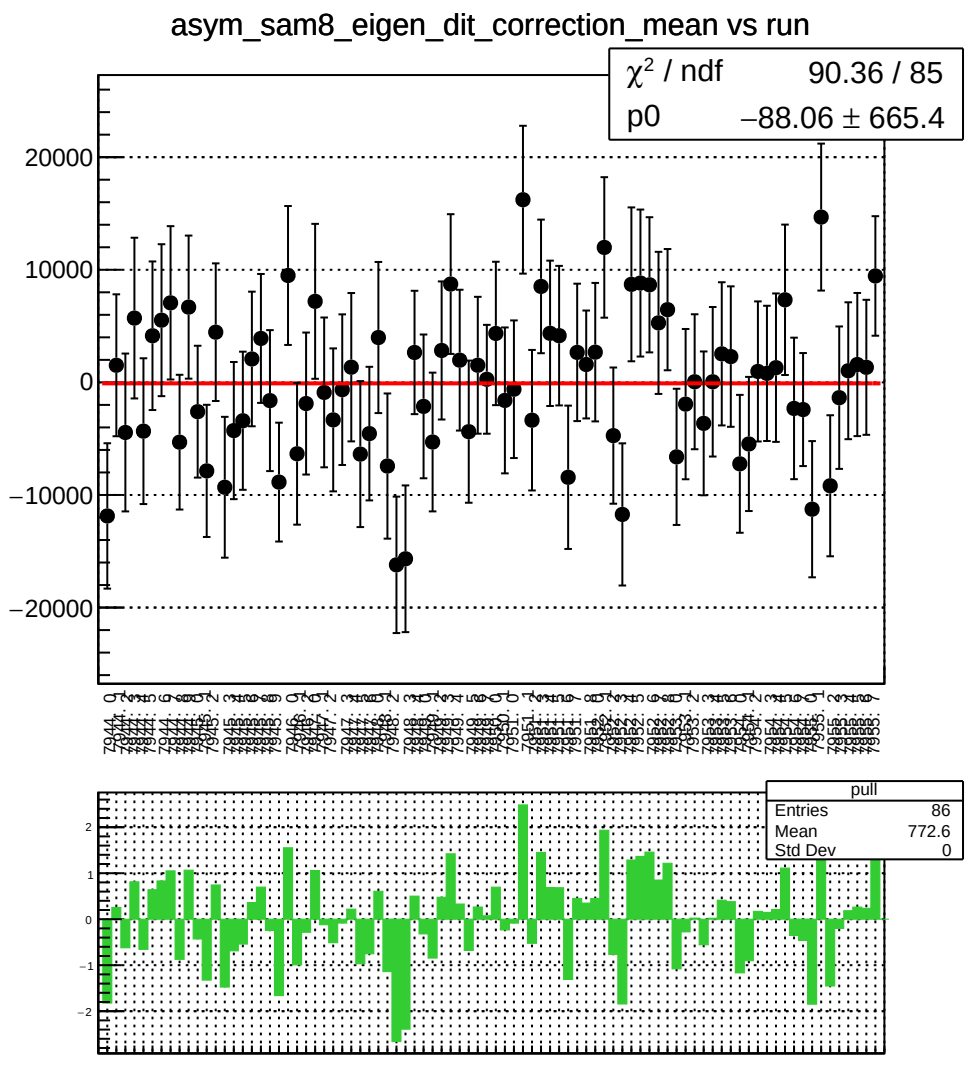

asym_sam8_dit_correction_mean vs run
χ² / ndf 90.36 / 85
p0 −88.06 ± 665.4
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 772.6
Std Dev 0
pull1D
Entries 86
Mean 0.004765
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

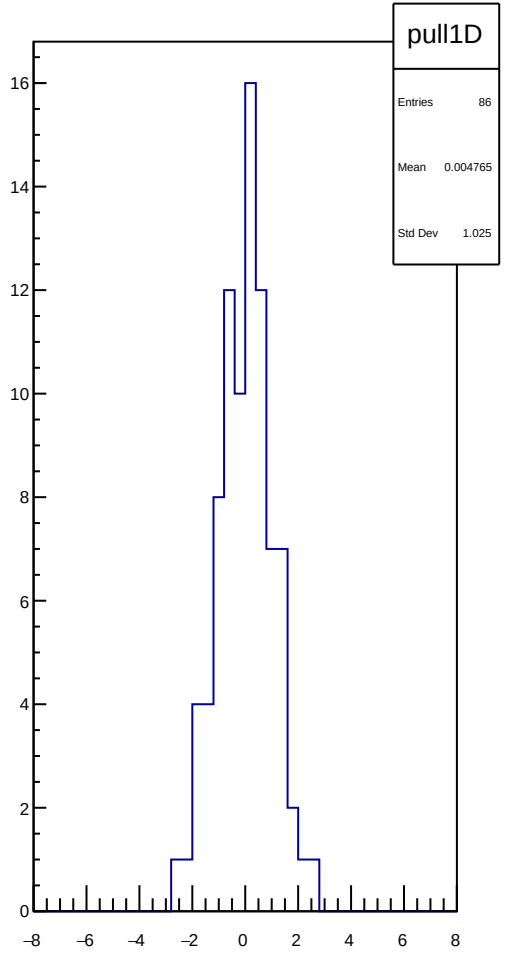

asym_sam8_dit_correction_rms vs run
χ² / ndf 2812 / 85
p0 598.2 ± 0.4705
680
660
640
620
600
580
560
540

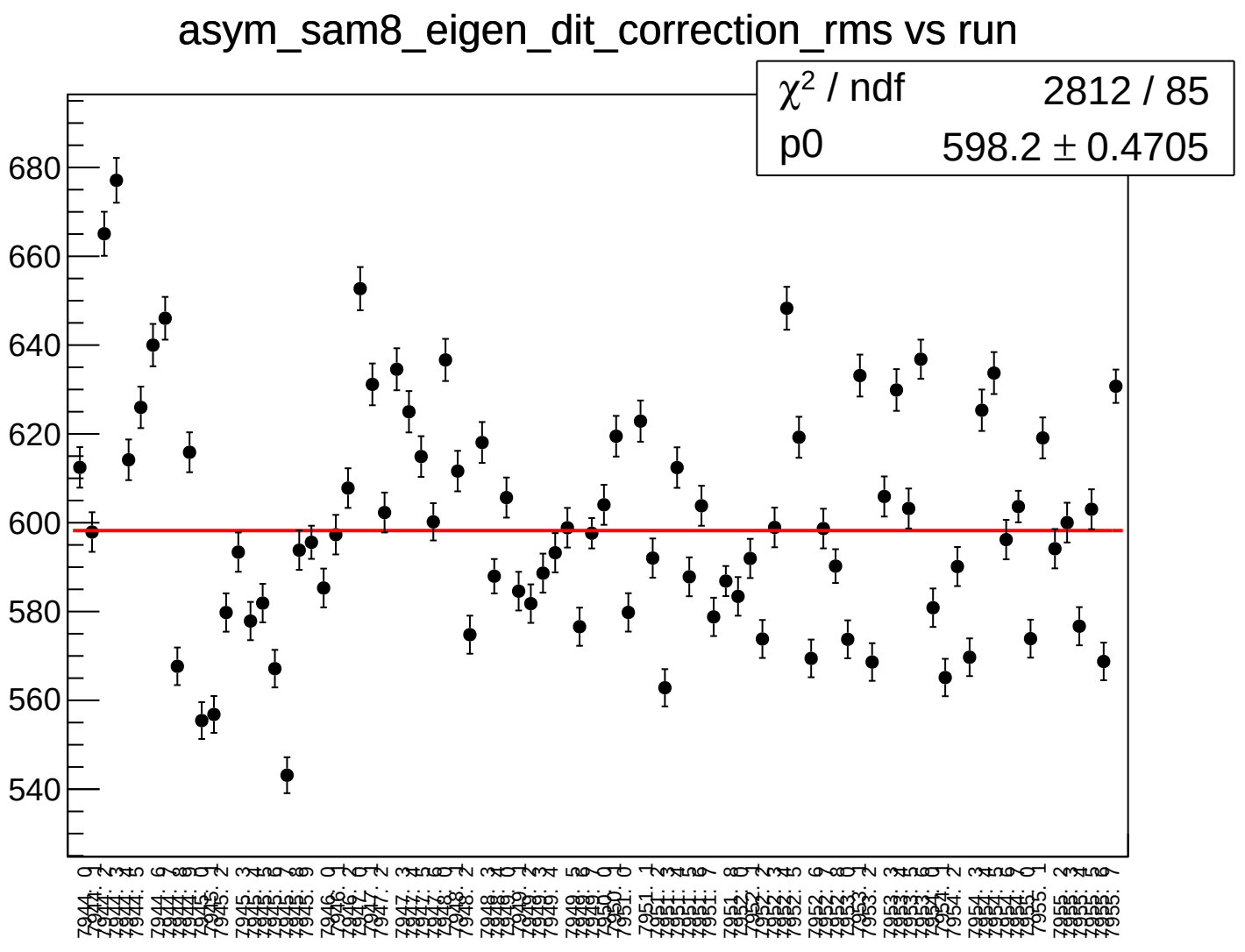

eigen_dit_asym_sam8_mean vs run
χ² / ndf 87.56 / 85
p0 −100.4 ± 91.26
pull
Entries 86
Mean −248.8
Std Dev 0

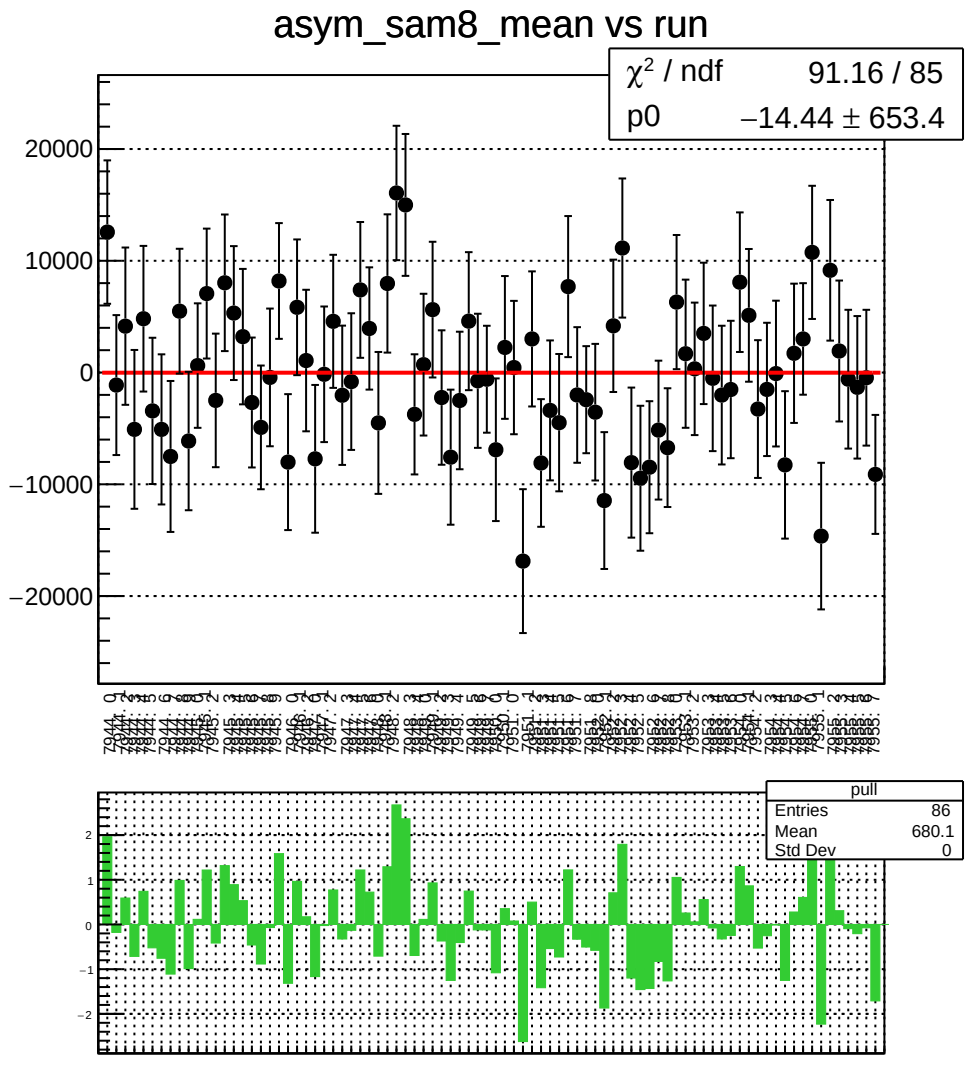

pull1D
Entries 86
Mean −0.003383
Std Dev 1.009

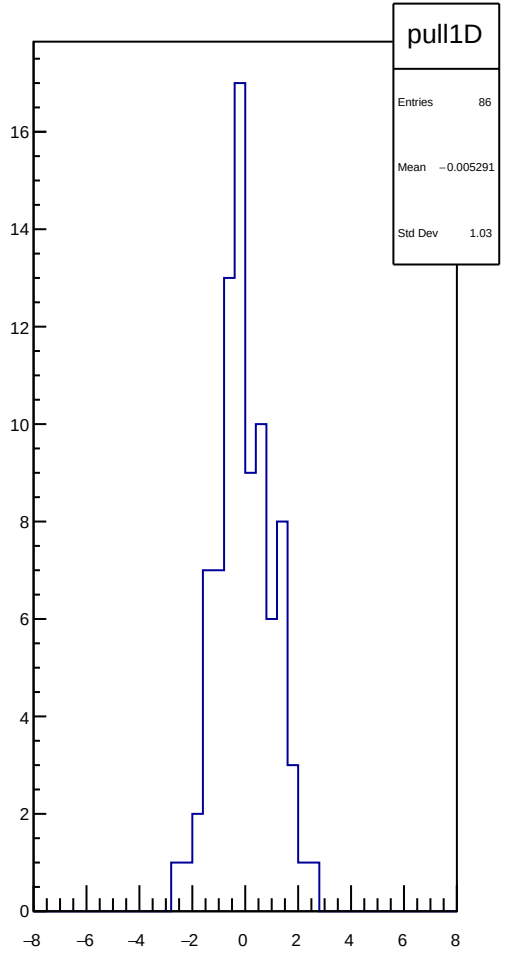

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 1.413e+04 / 85
p0 81.75 ± 0.06453
140
130
120
110
100
90
80
70

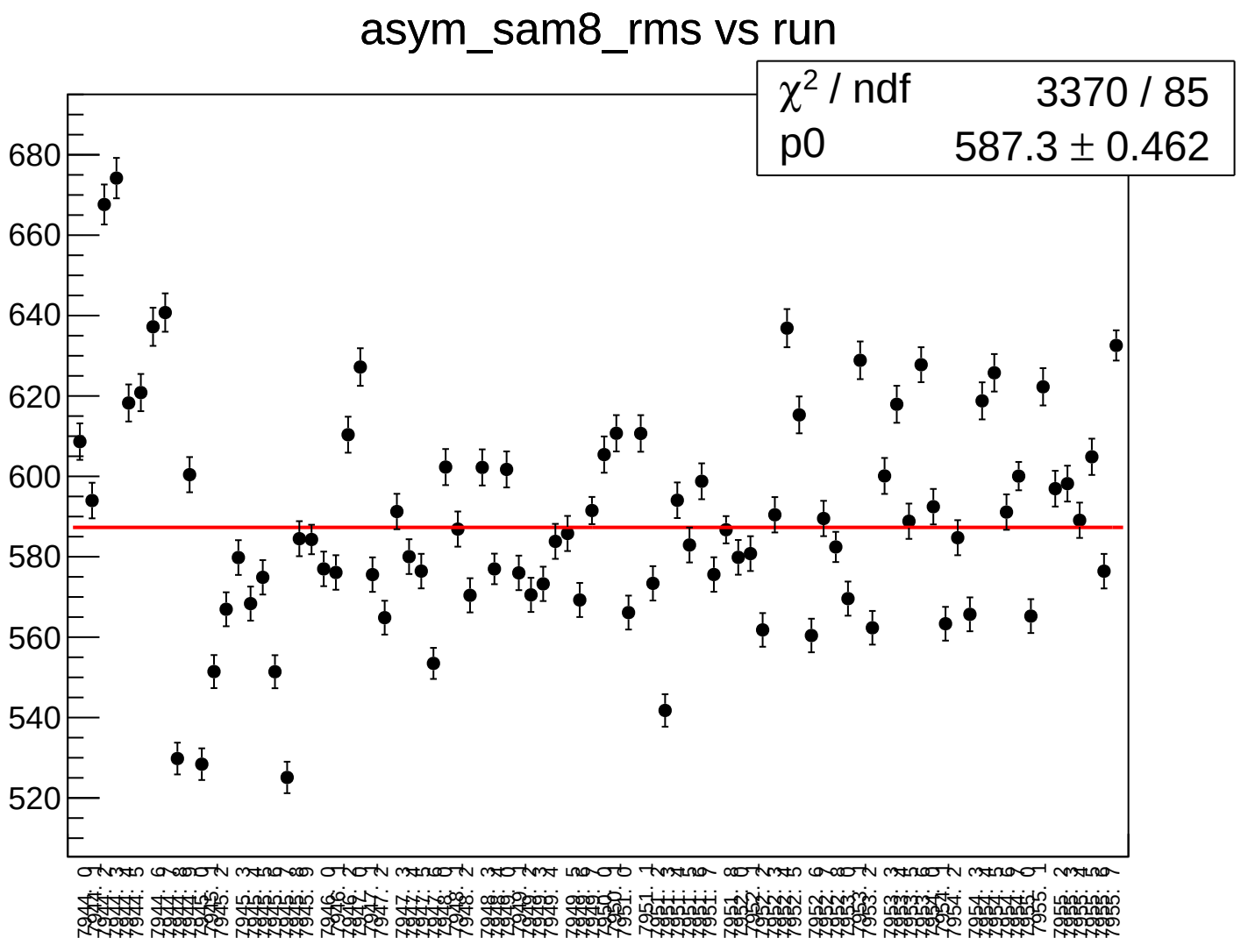

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 90.36 / 85
p0 −88.06 ± 665.4
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 772.6
Std Dev 0
2
1
0
−1
−2

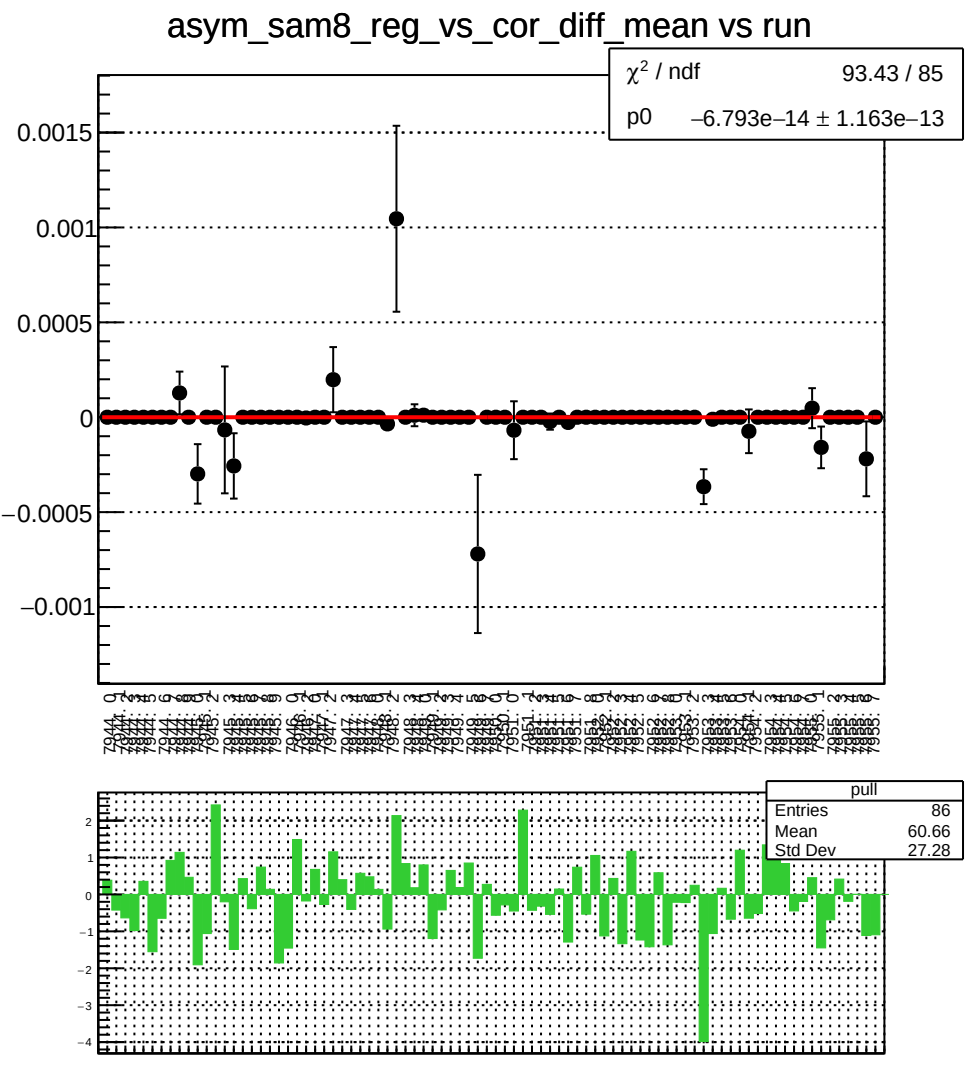

pull1D
Entries 86
Mean 0.004765
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

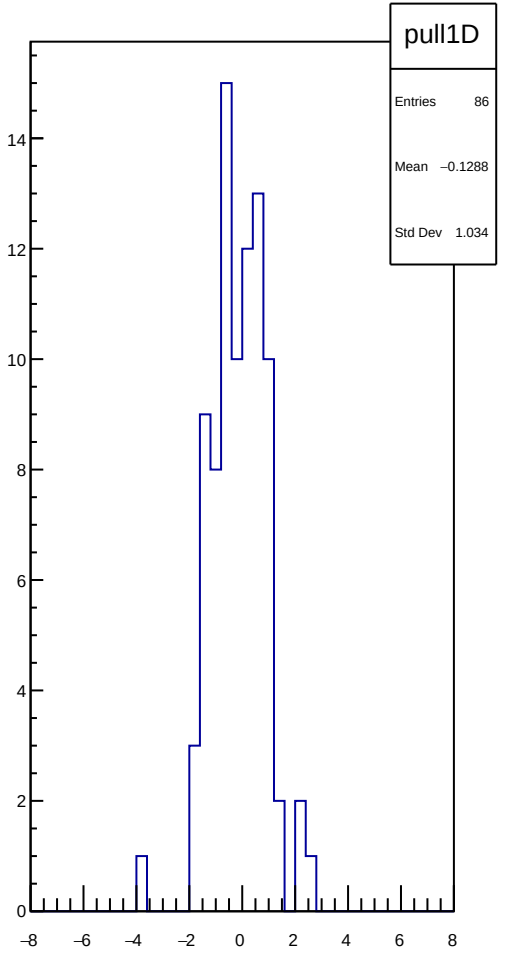

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 2812 / 85
p0 598.2 ± 0.4705
680
660
640
620
600
580
560
540

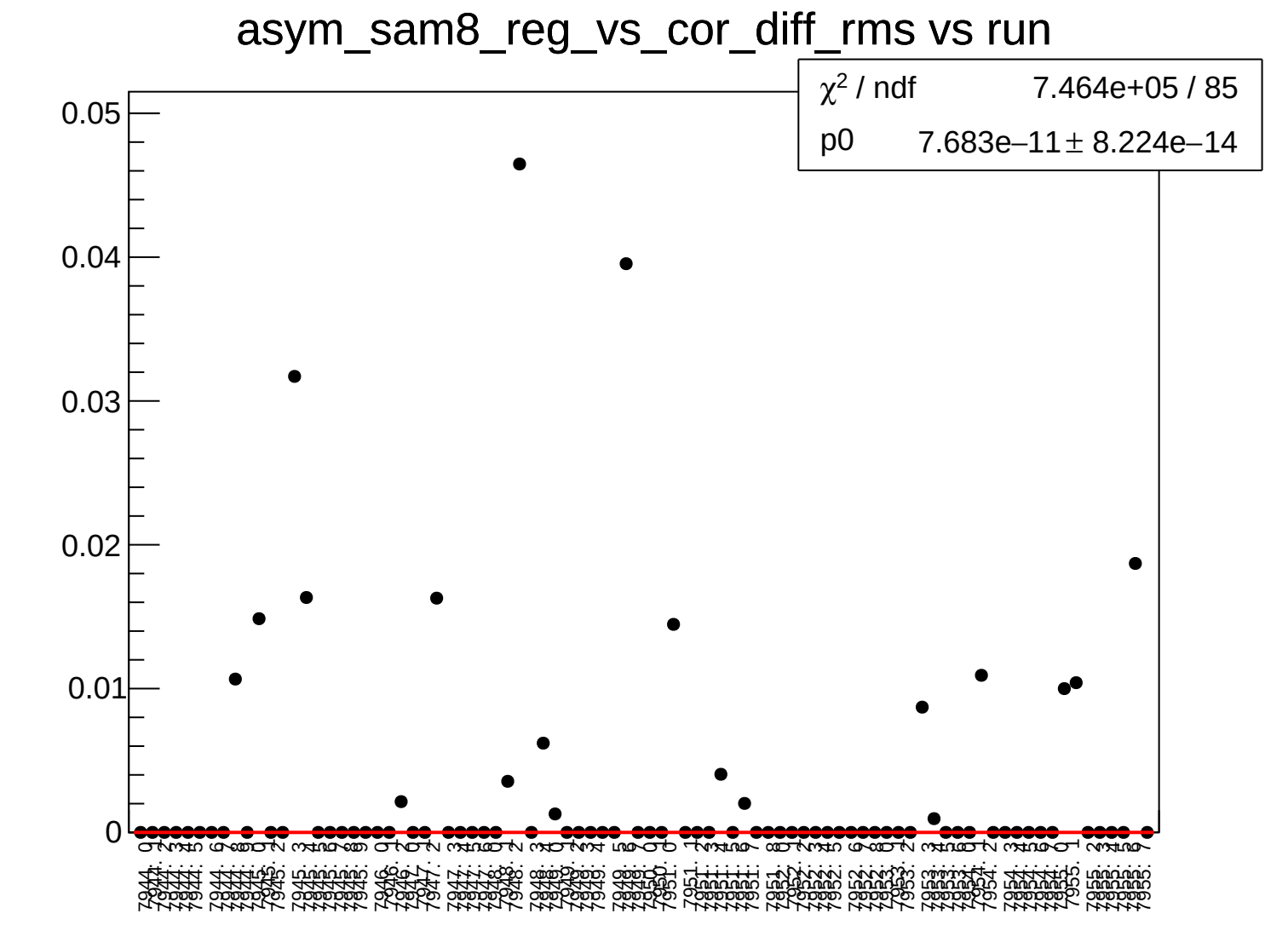

asym_sam8_mean vs run
χ^2 / ndf 91.16 / 85
p0 −14.44 ± 653.4
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 680.1
Std Dev 0
2
1
0
−1
−2

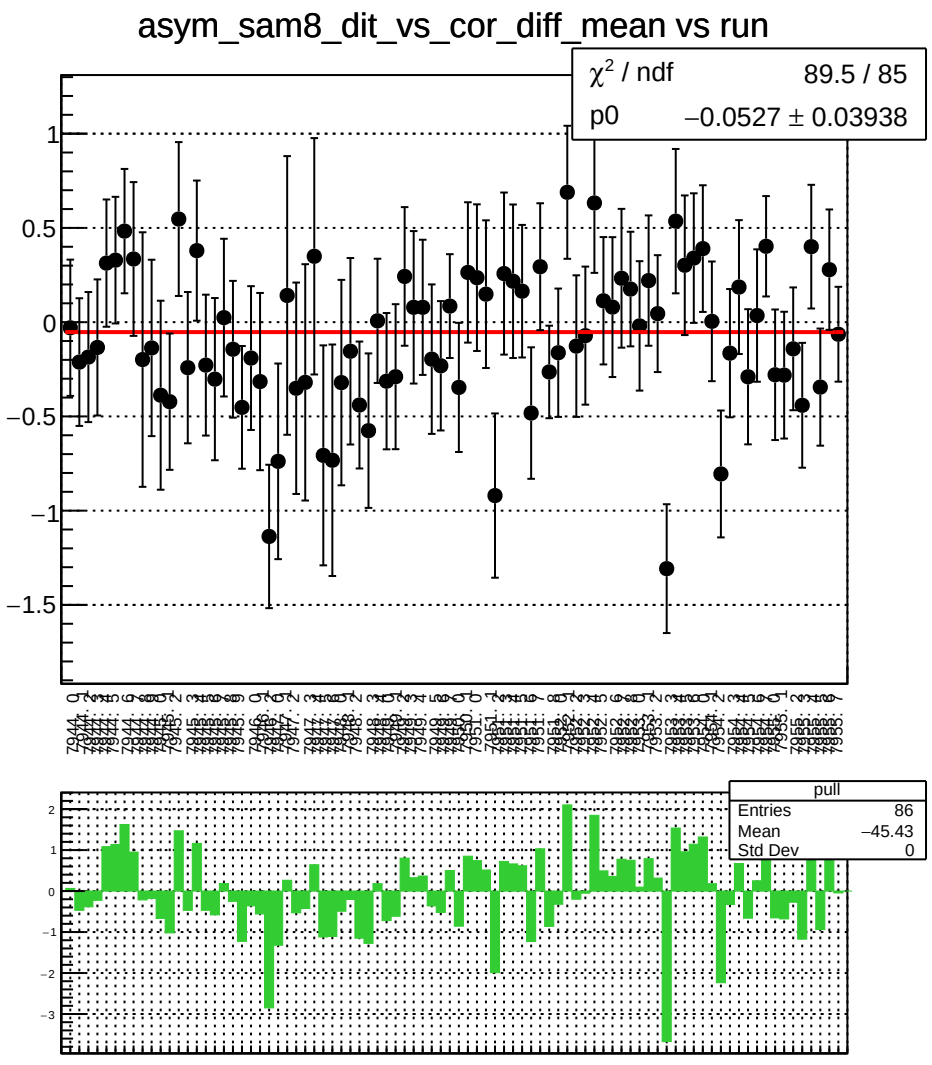

pull1D
Entries 86
Mean −0.005291
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

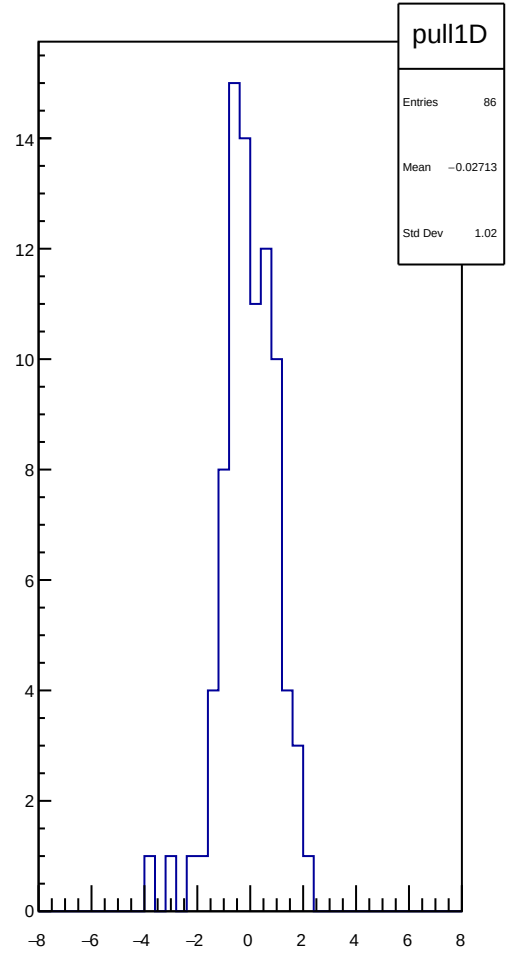

asym_sam8_rms vs run
χ^2 / ndf 3370 / 85
p0 587.3 ± 0.462
680
660
640
620
600
580
560
540
520

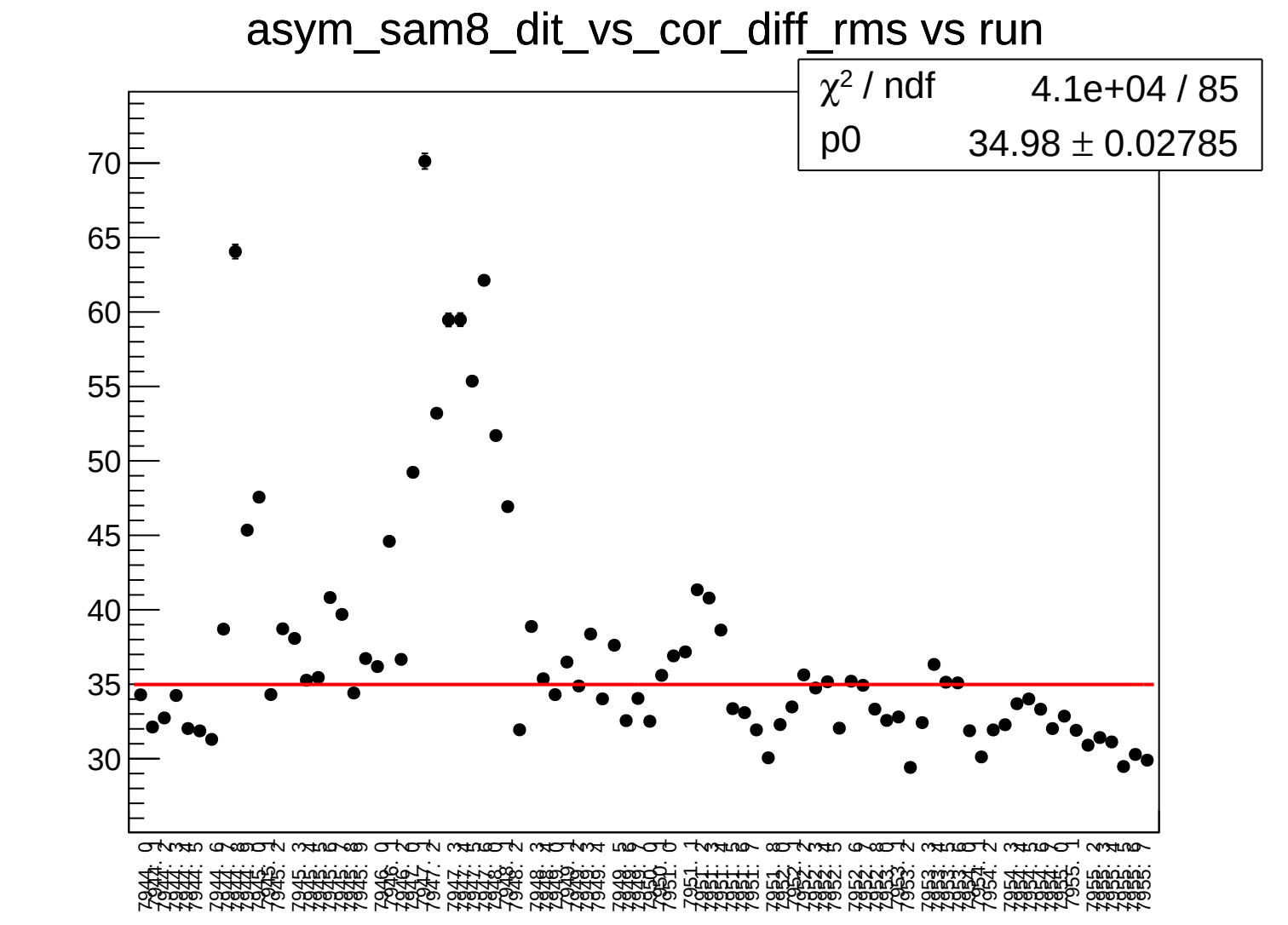

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 93.43 / 85
p0 −6.793e−14 ± 1.163e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 60.66
Std Dev 27.28
2
1
0
−1
−2
−3
−4

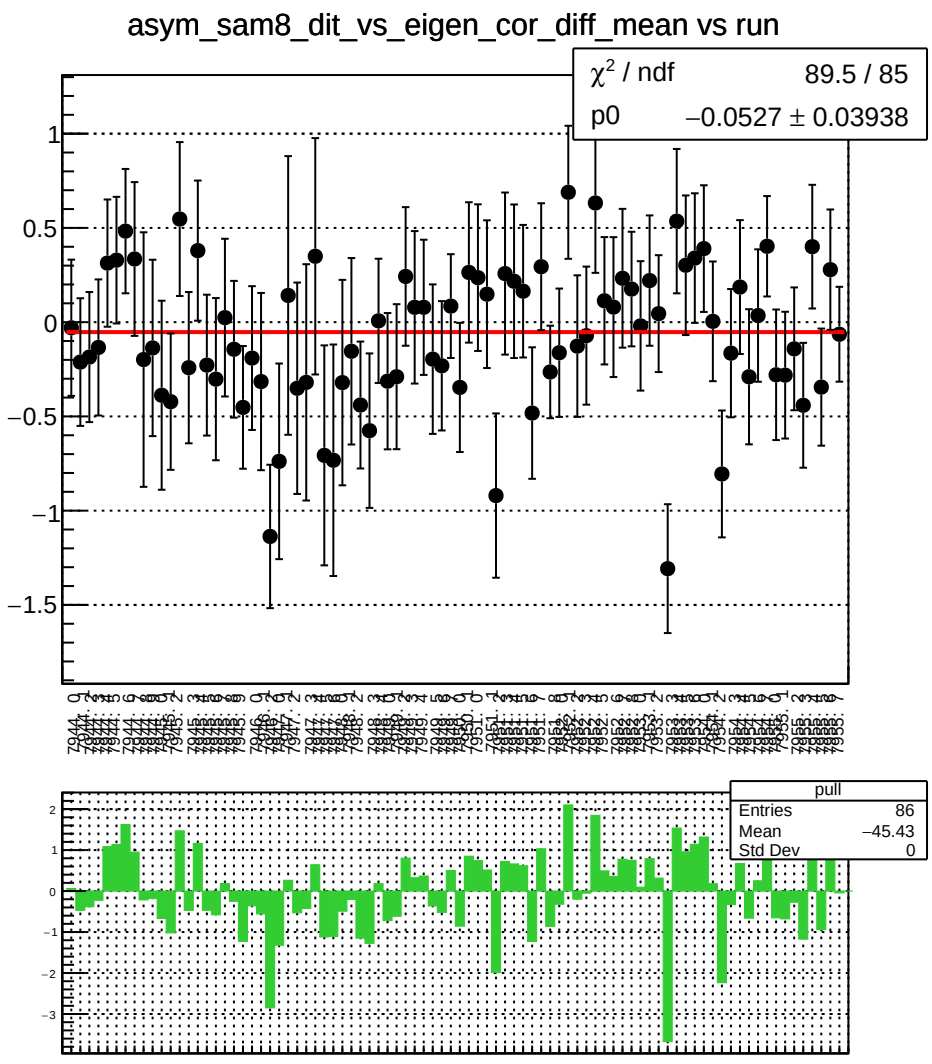

pull1D
Entries 86
Mean −0.1288
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

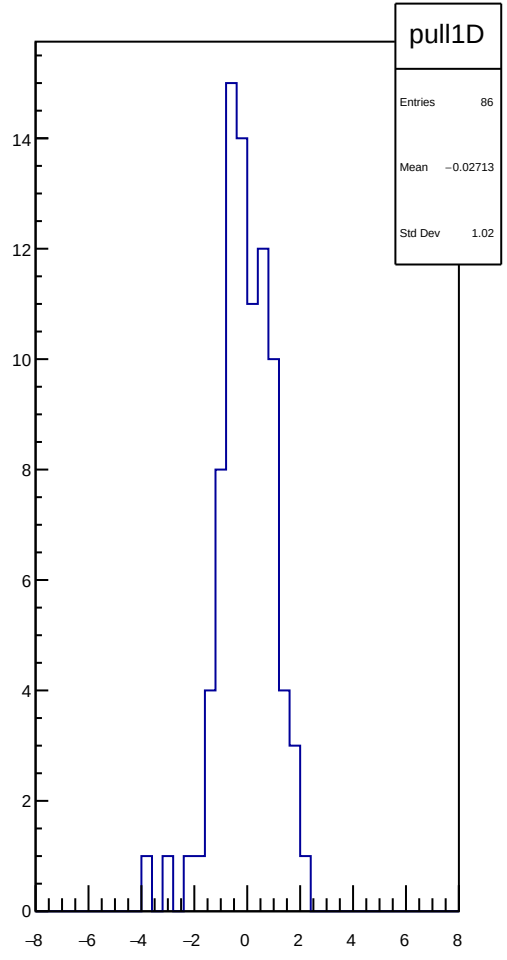

asym_sam8_reg_vs_cor_diff_rms vs run
χ^2 / ndf 7.464e+05 / 85
p0 7.683e−11 ± 8.224e−14
0.05
0.04
0.03
0.02
0.01
0

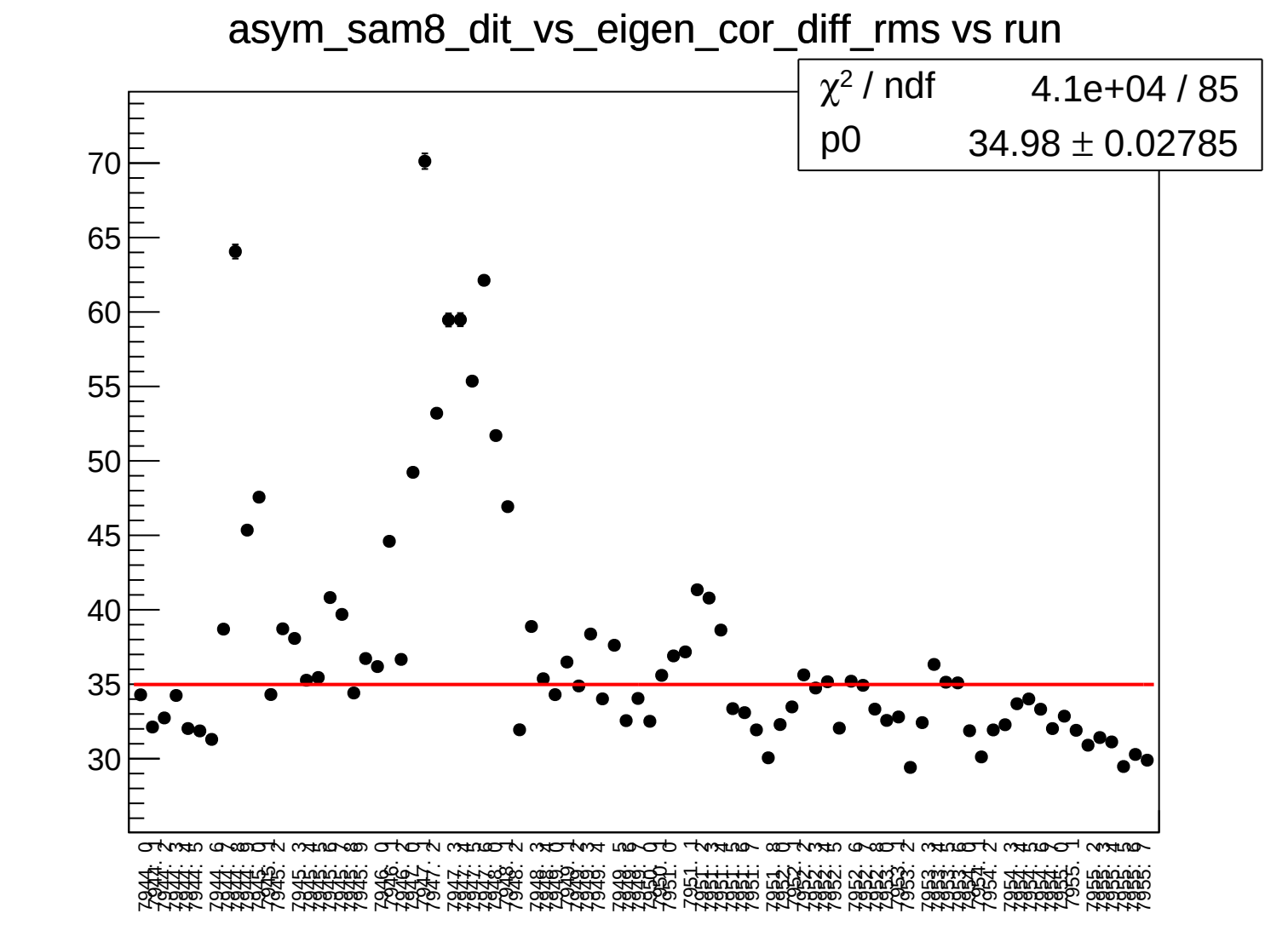

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 89.5 / 85
p0 −0.0527 ± 0.03938
pull
Entries 86
Mean −45.43
Std Dev 0

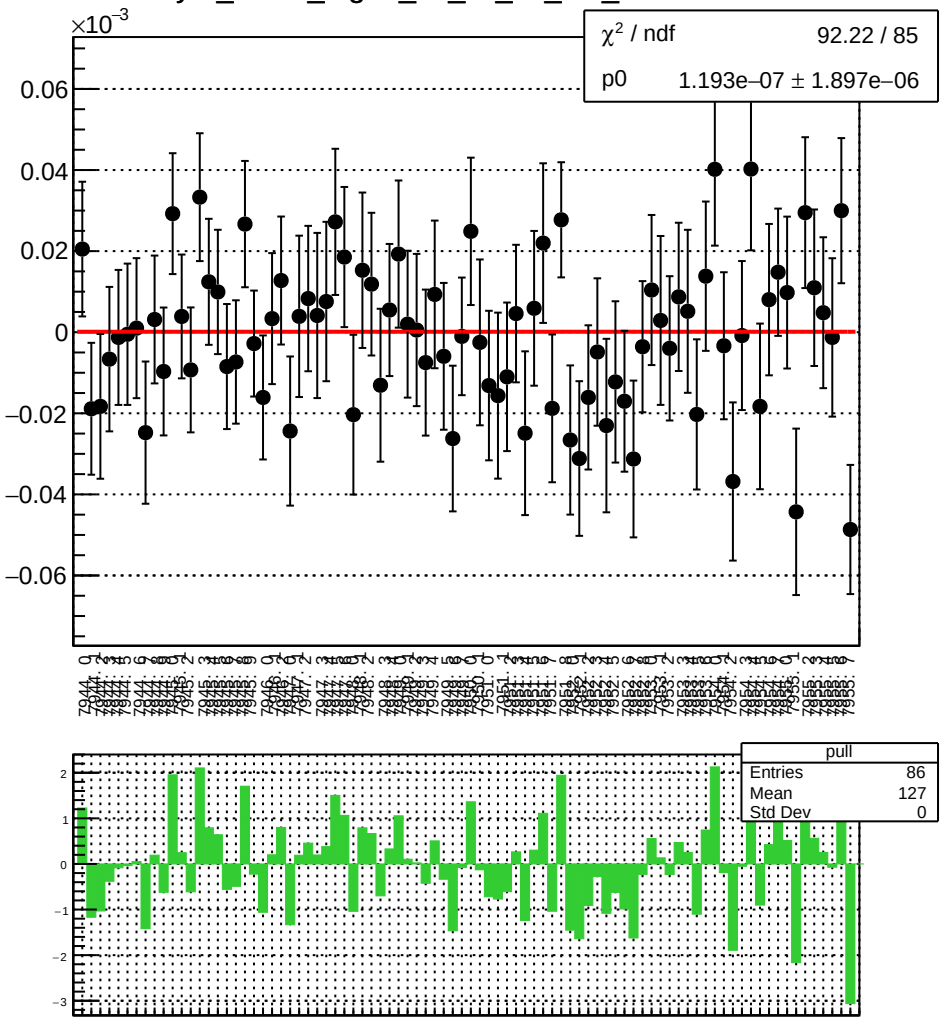

pull1D
Entries 86
Mean −0.02713
Std Dev 1.02

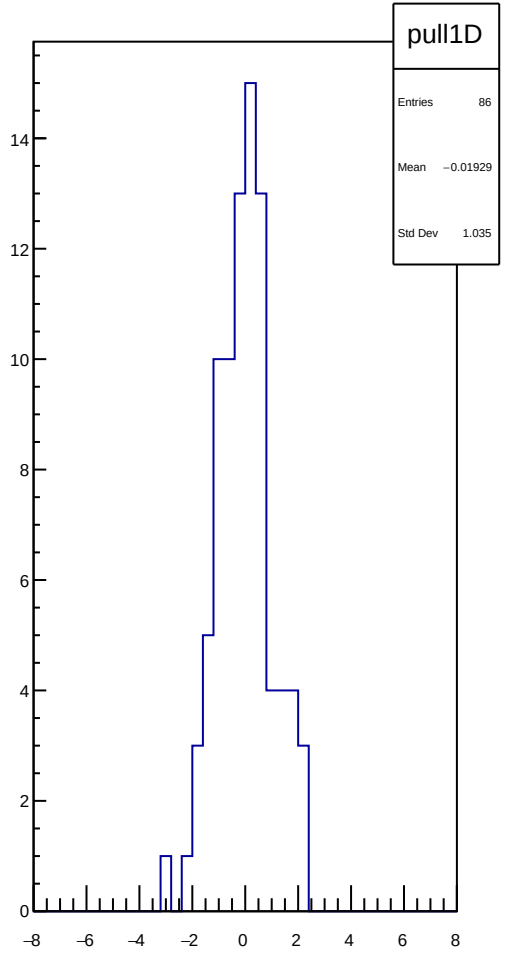

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.1e+04 / 85
p0 34.98 ± 0.02785
70
65
60
55
50
45
40
35
30

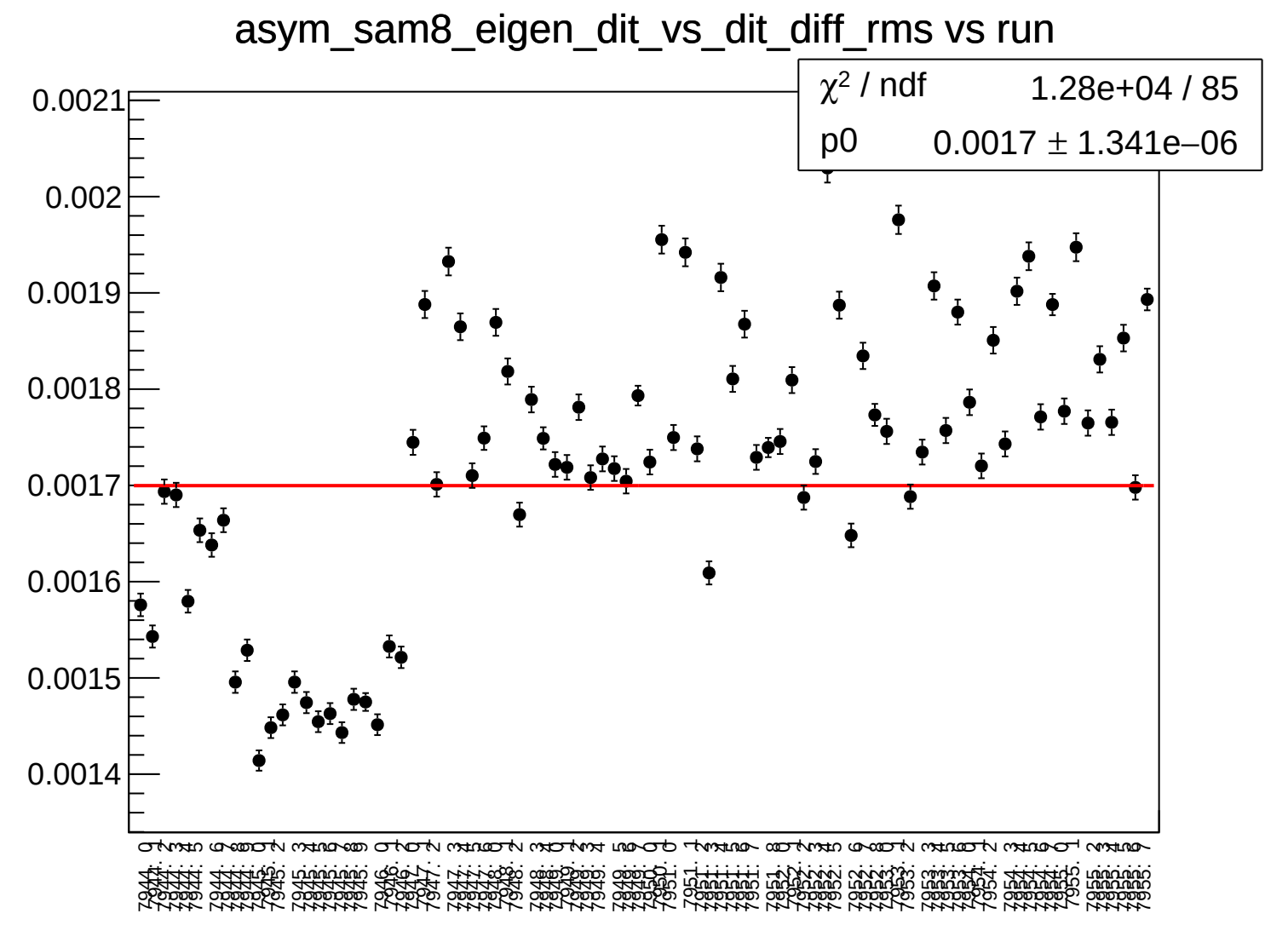

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.5 / 85
p0 −0.0527 ± 0.03938
pull
Entries 86
Mean −45.43
Std Dev 0

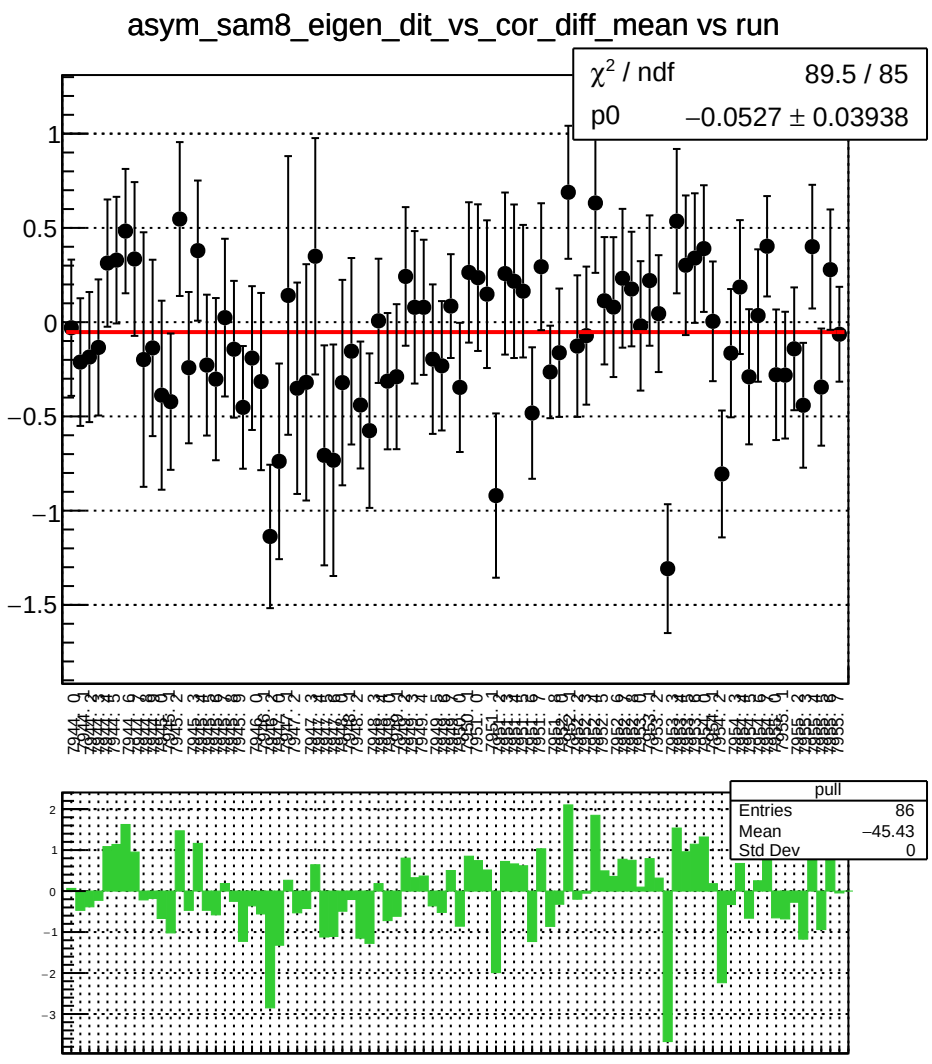

pull1D
Entries 86
Mean −0.02713
Std Dev 1.02

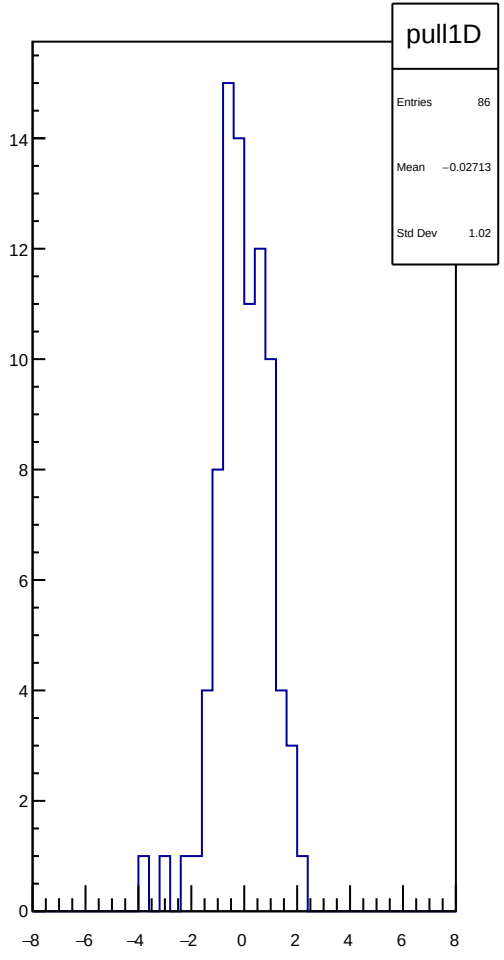

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.1e+04 / 85
p0 34.98 ± 0.02785
70
65
60
55
50
45
40
35
30

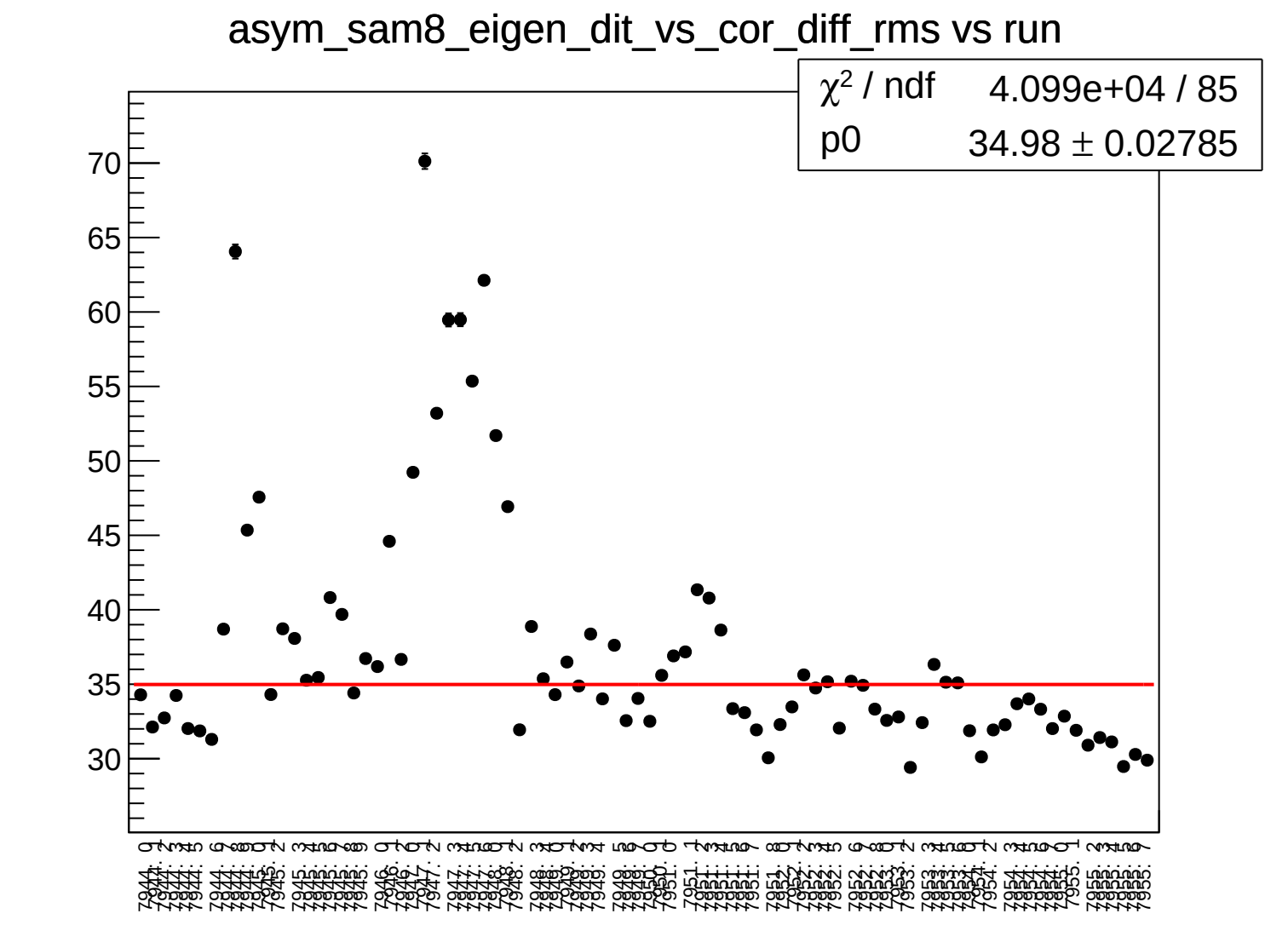

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.22 / 85
p0 1.193e−07 ± 1.897e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 127
Std Dev 0
2
1
0
−1
−2
−3

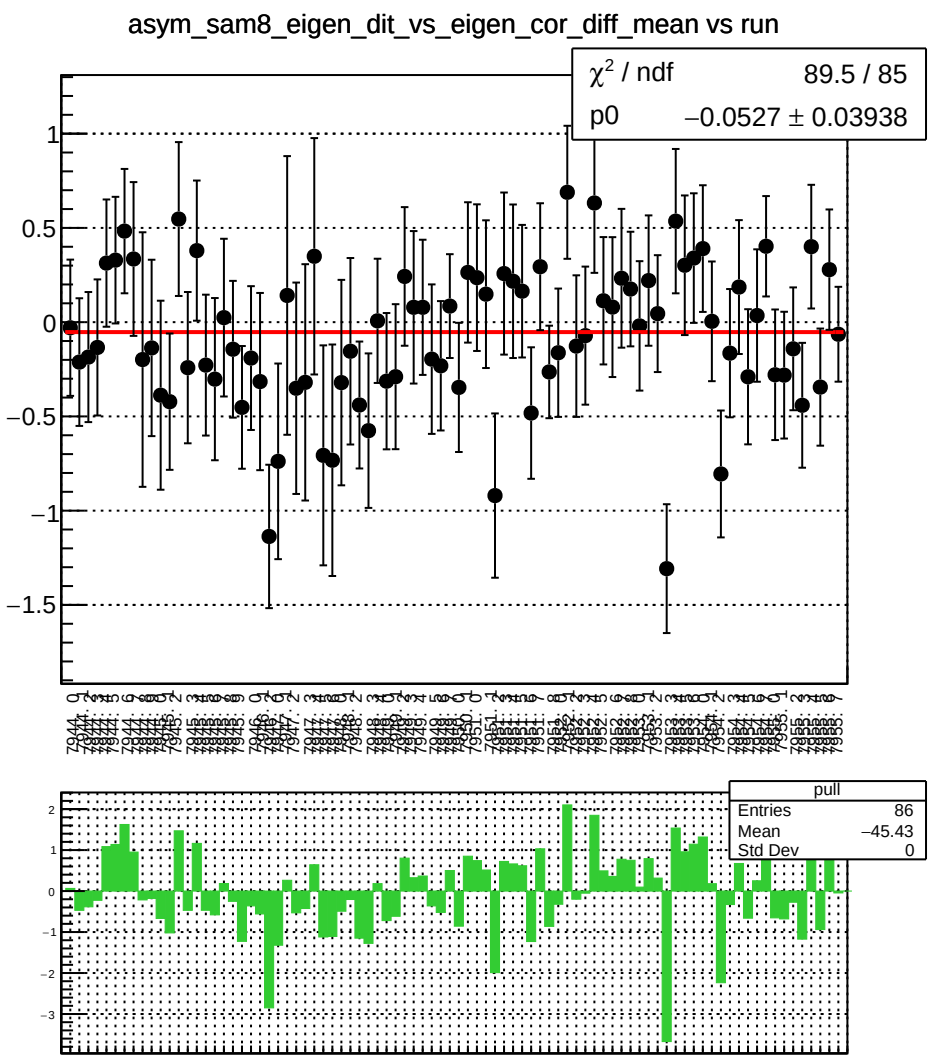

pull1D
Entries 86
Mean −0.01929
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

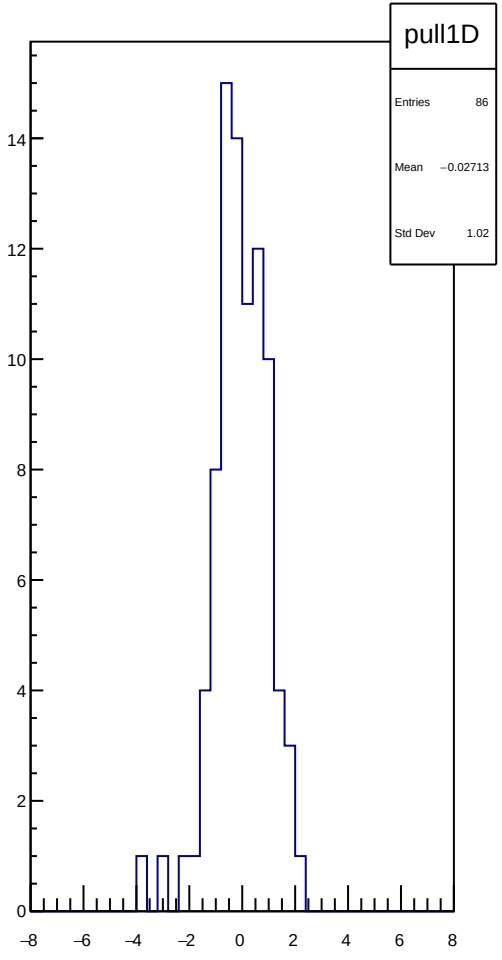

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.28e+04 / 85
p0 0.0017 ± 1.341e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

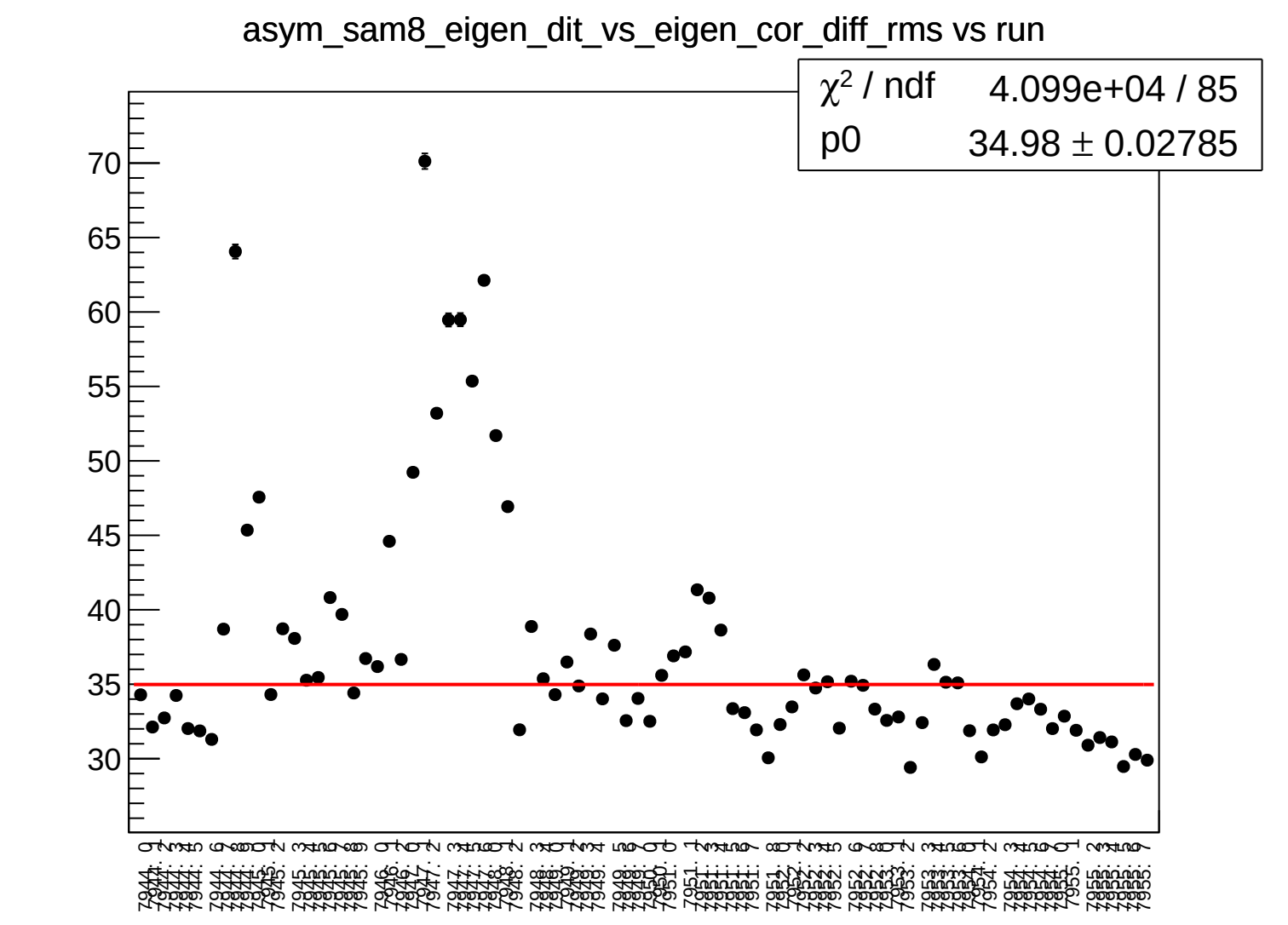

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.5 / 85
p0 −0.0527 ± 0.03938
pull
Entries 86
Mean −45.43
Std Dev 0

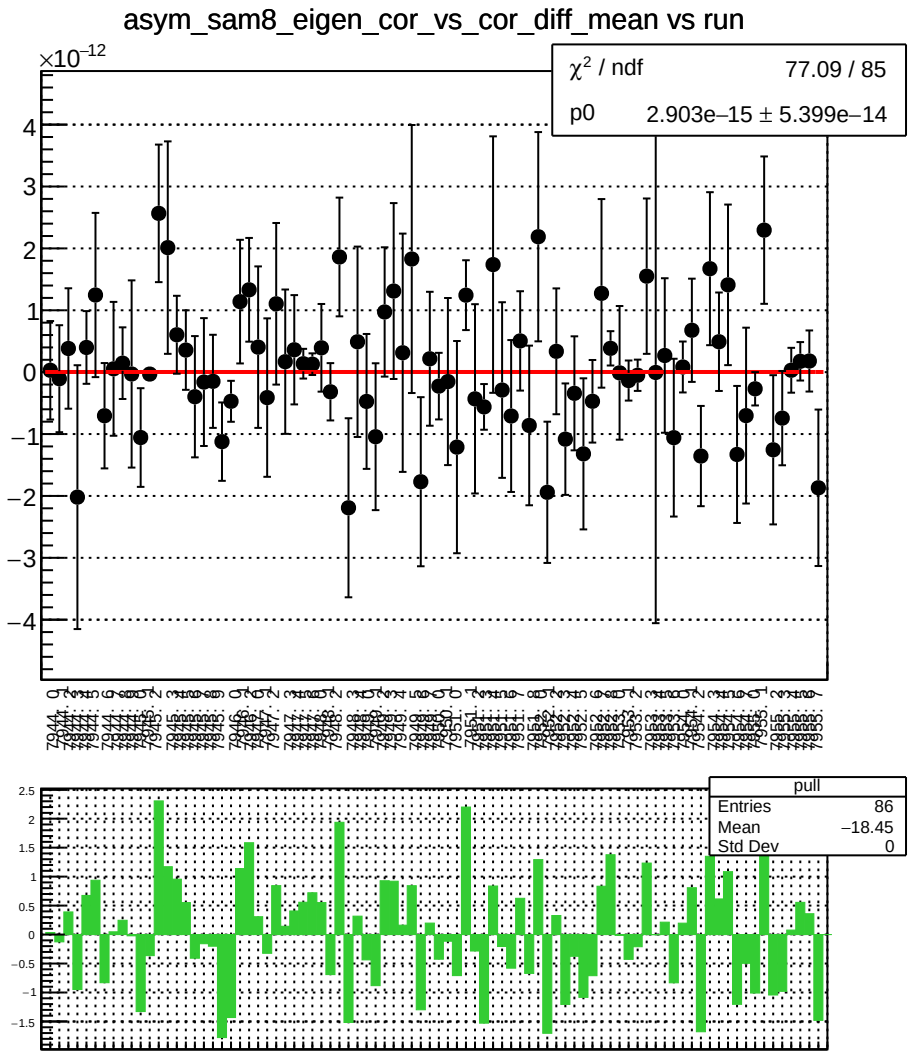

pull1D
Entries 86
Mean −0.02713
Std Dev 1.02

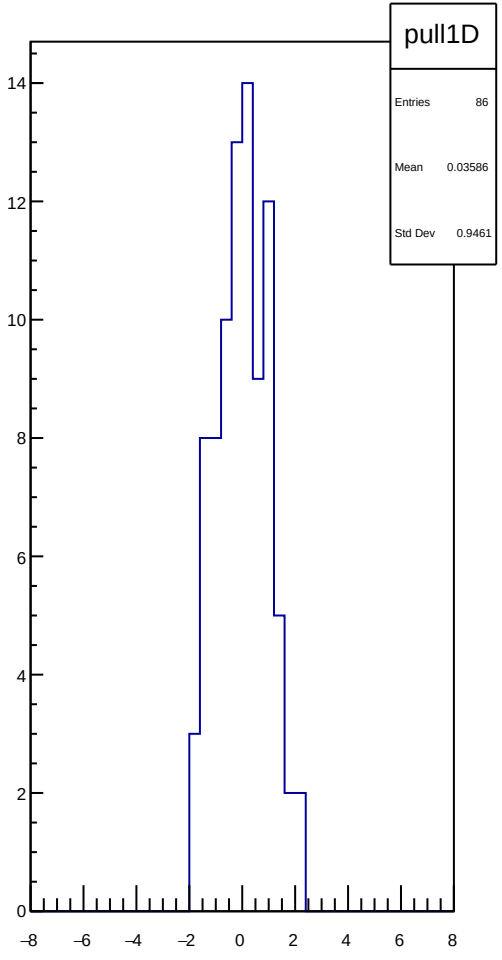

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.099e+04 / 85
p0 34.98 ± 0.02785
70
65
60
55
50
45
40
35
30

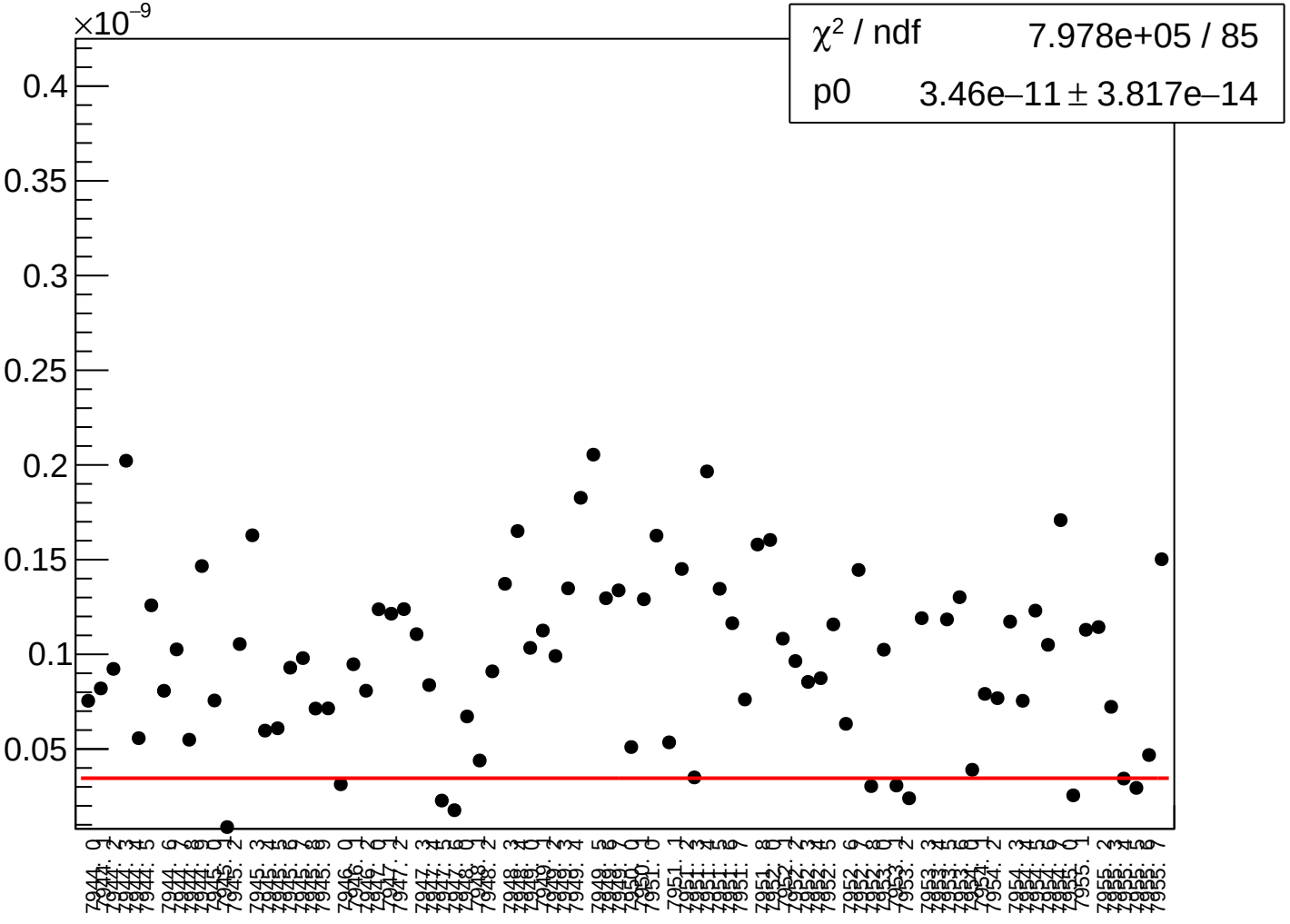

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.5 / 85
p0 −0.0527 ± 0.03938
pull
Entries 86
Mean −45.43
Std Dev 0

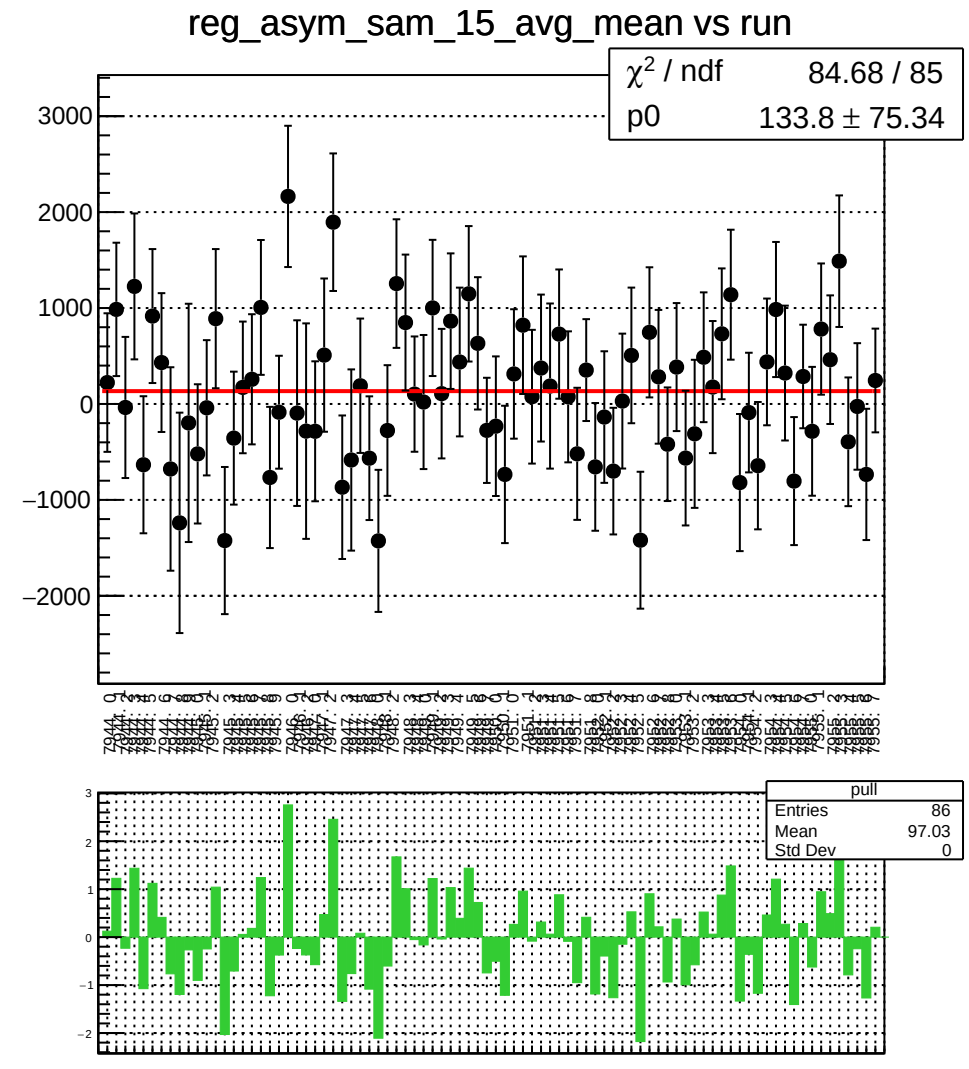

pull1D
Entries 86
Mean −0.02713
Std Dev 1.02

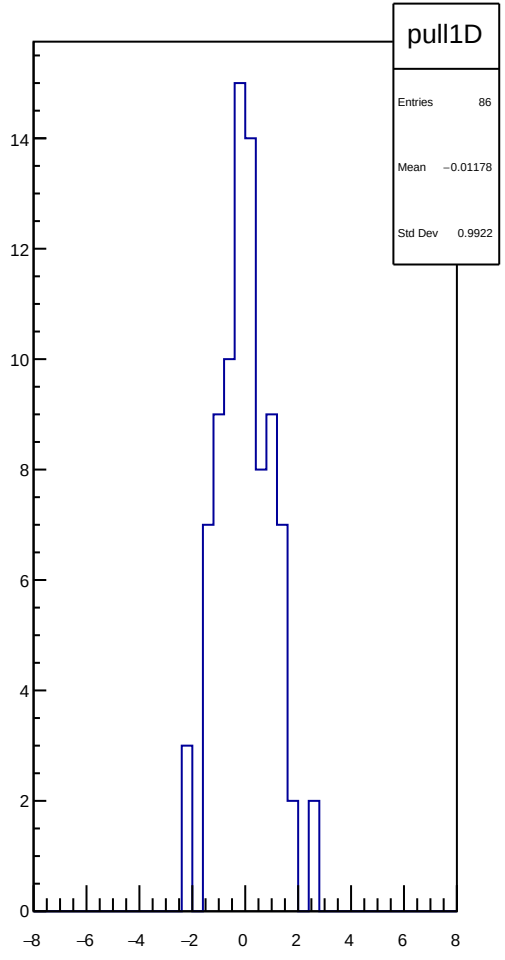

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.099e+04 / 85
p0 34.98 ± 0.02785
70
65
60
55
50
45
40
35
30

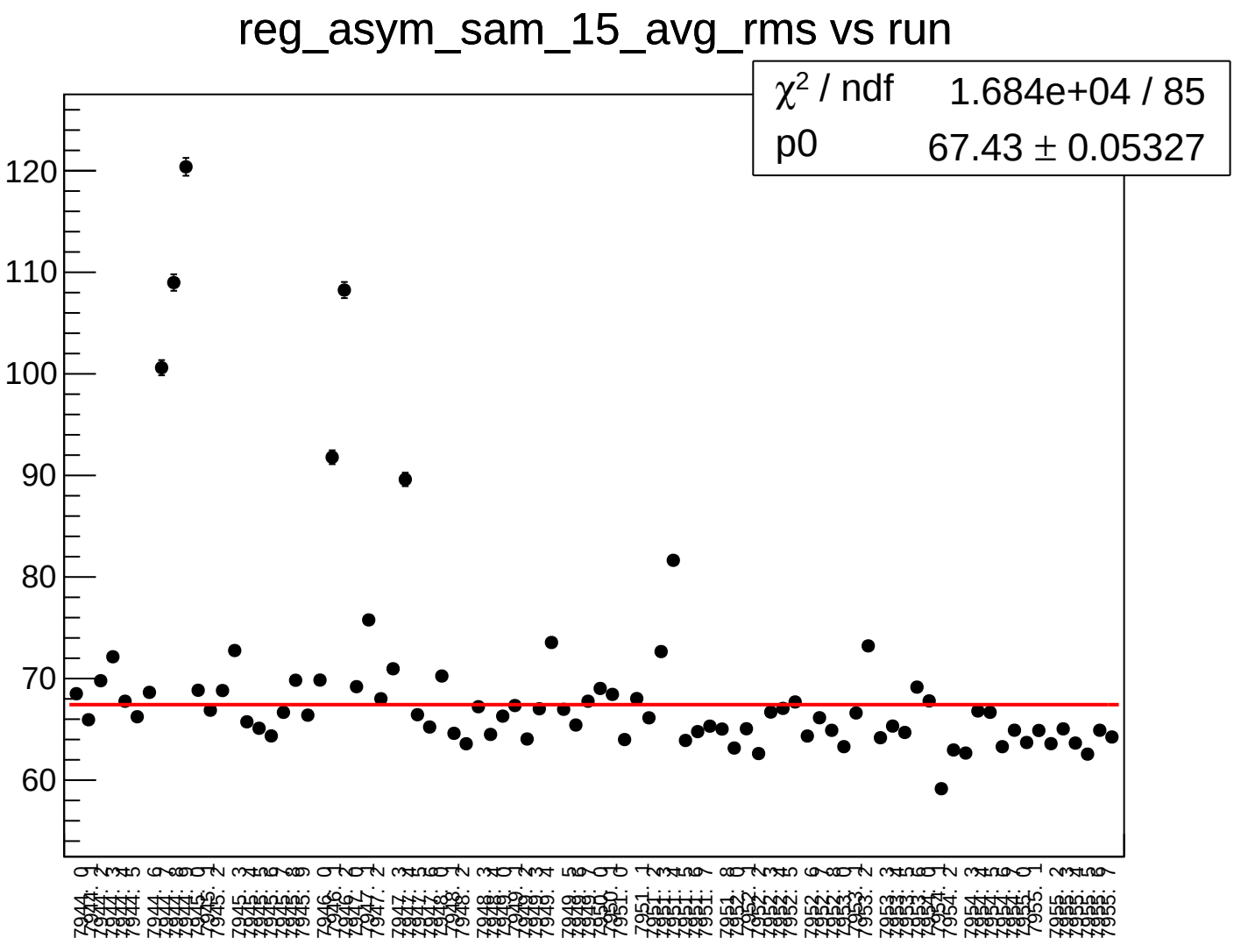

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.09 / 85
p0 2.903e−15 ± 5.399e−14
pull
Entries 86
Mean −18.45
Std Dev 0

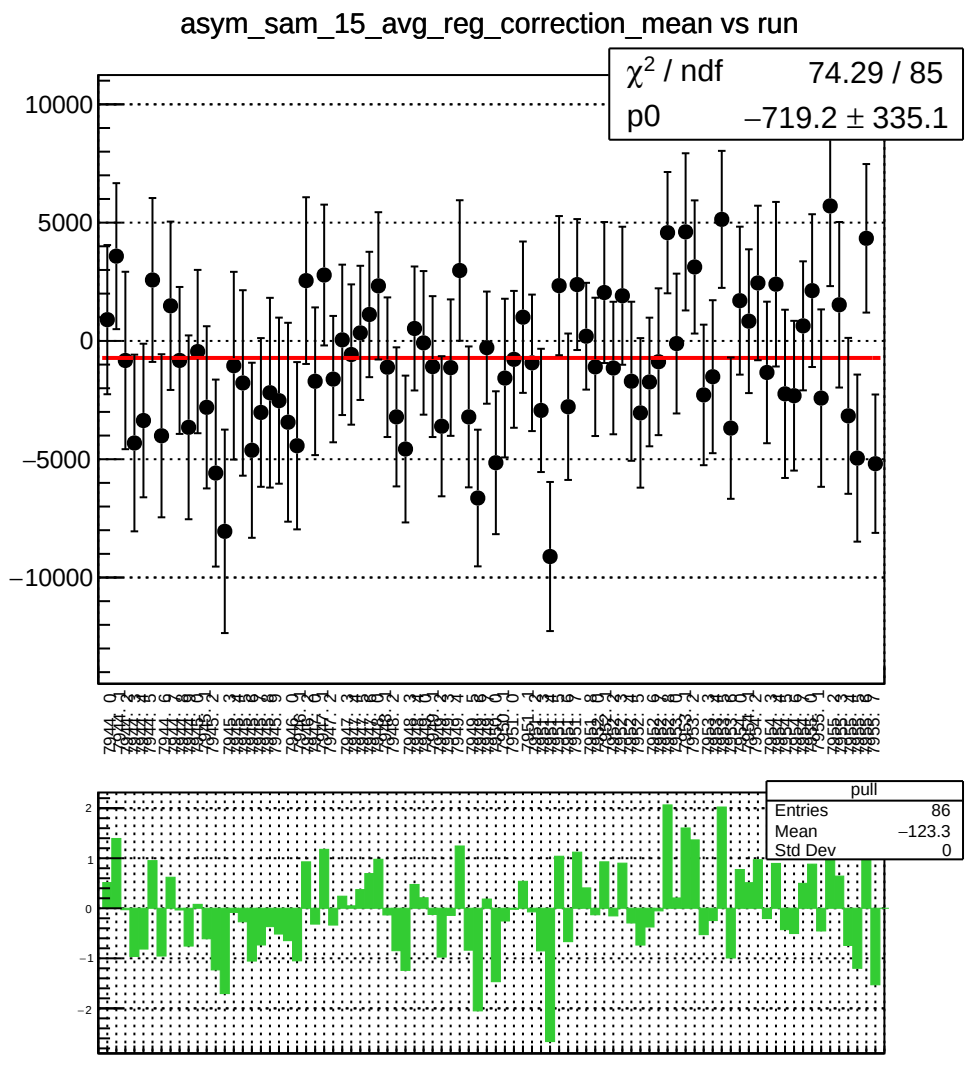

pull1D
Entries 86
Mean 0.03586
Std Dev 0.9461

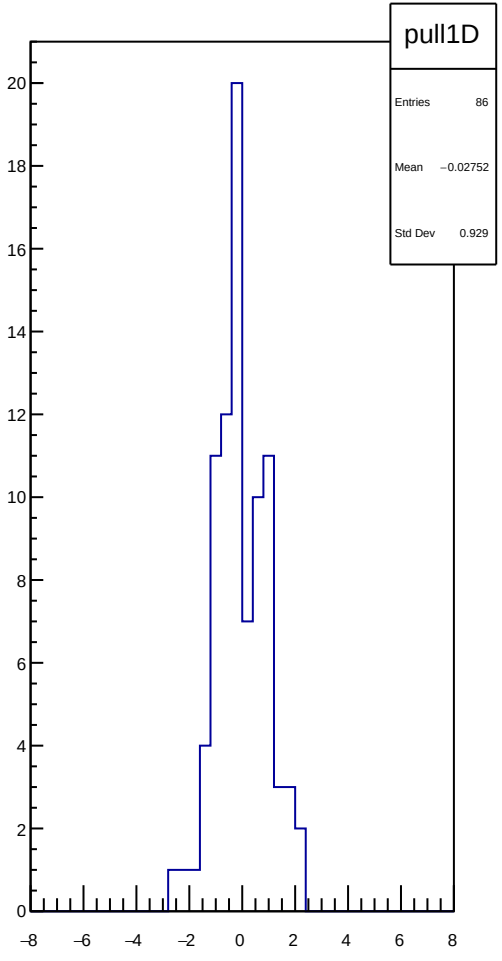

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.978e+05 / 85
p0 3.46e−11 ± 3.817e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

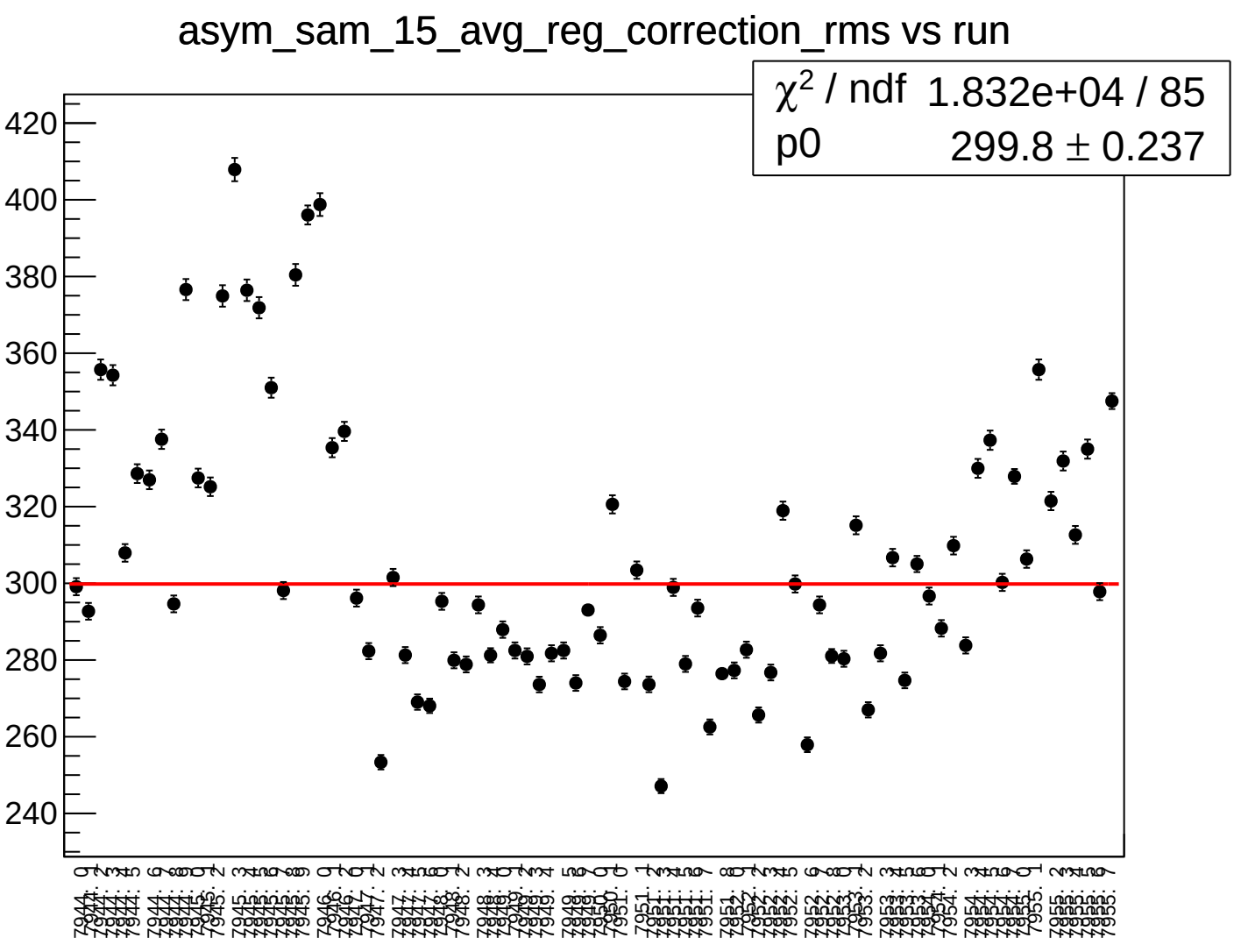

reg_asym_sam_15_avg_mean vs run
χ² / ndf 84.68 / 85
p0 133.8 ± 75.34
pull
Entries 86
Mean 97.03
Std Dev 0

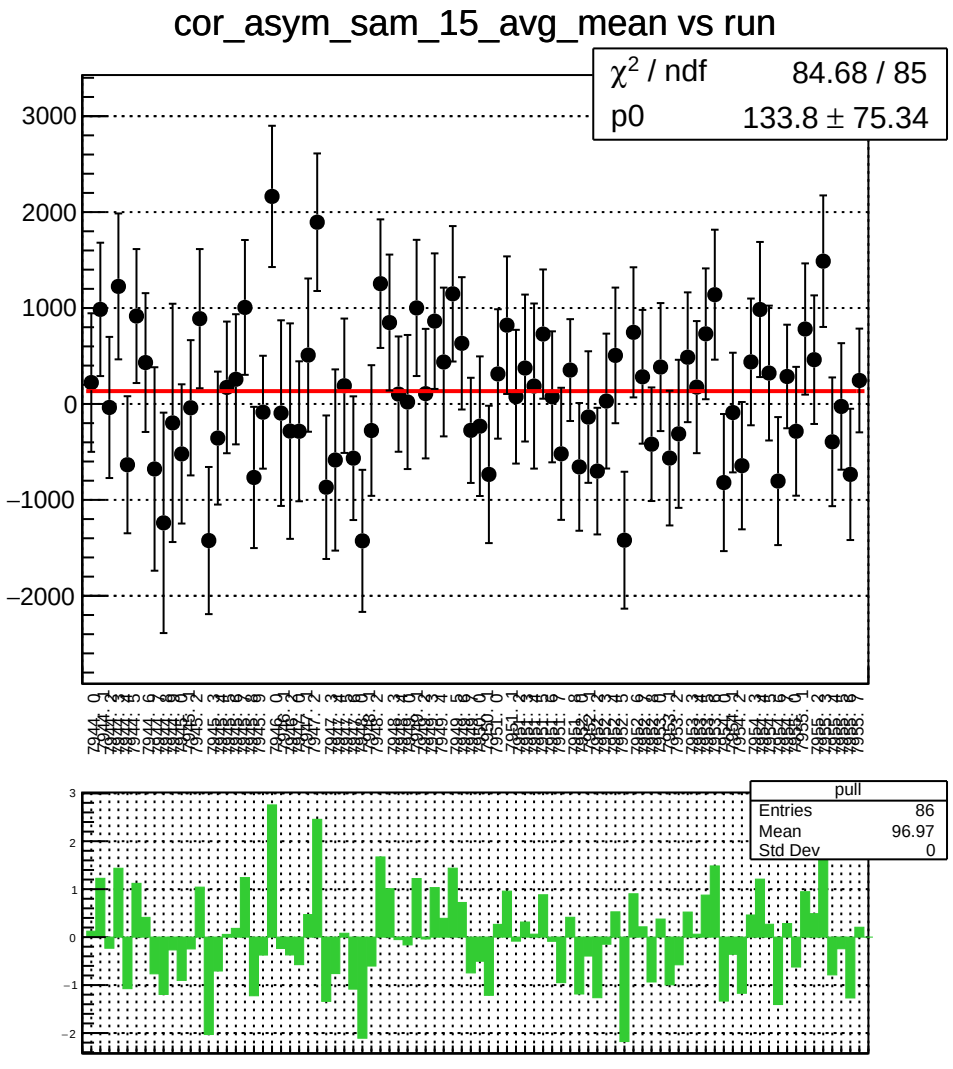

pull1D
Entries 86
Mean −0.01178
Std Dev 0.9922

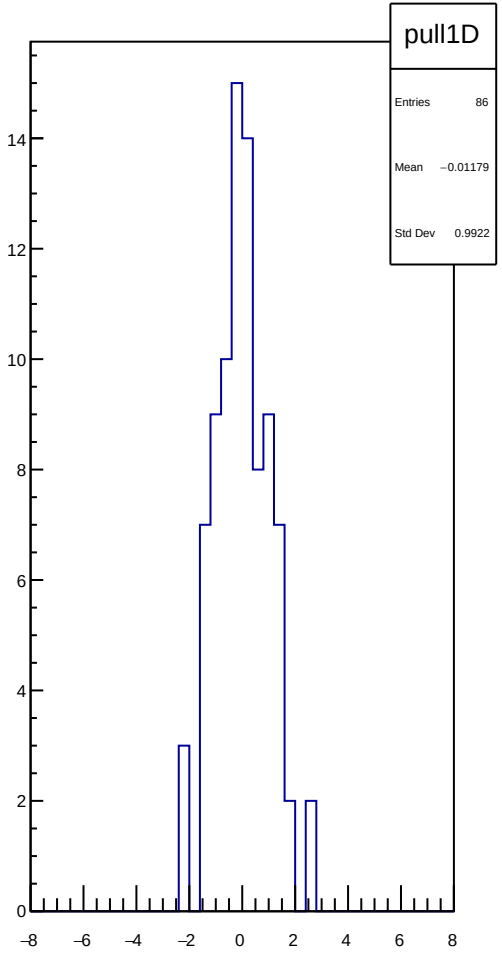

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1.684e+04 / 85
p0 67.43 ± 0.05327
120
110
100
90
80
70
60

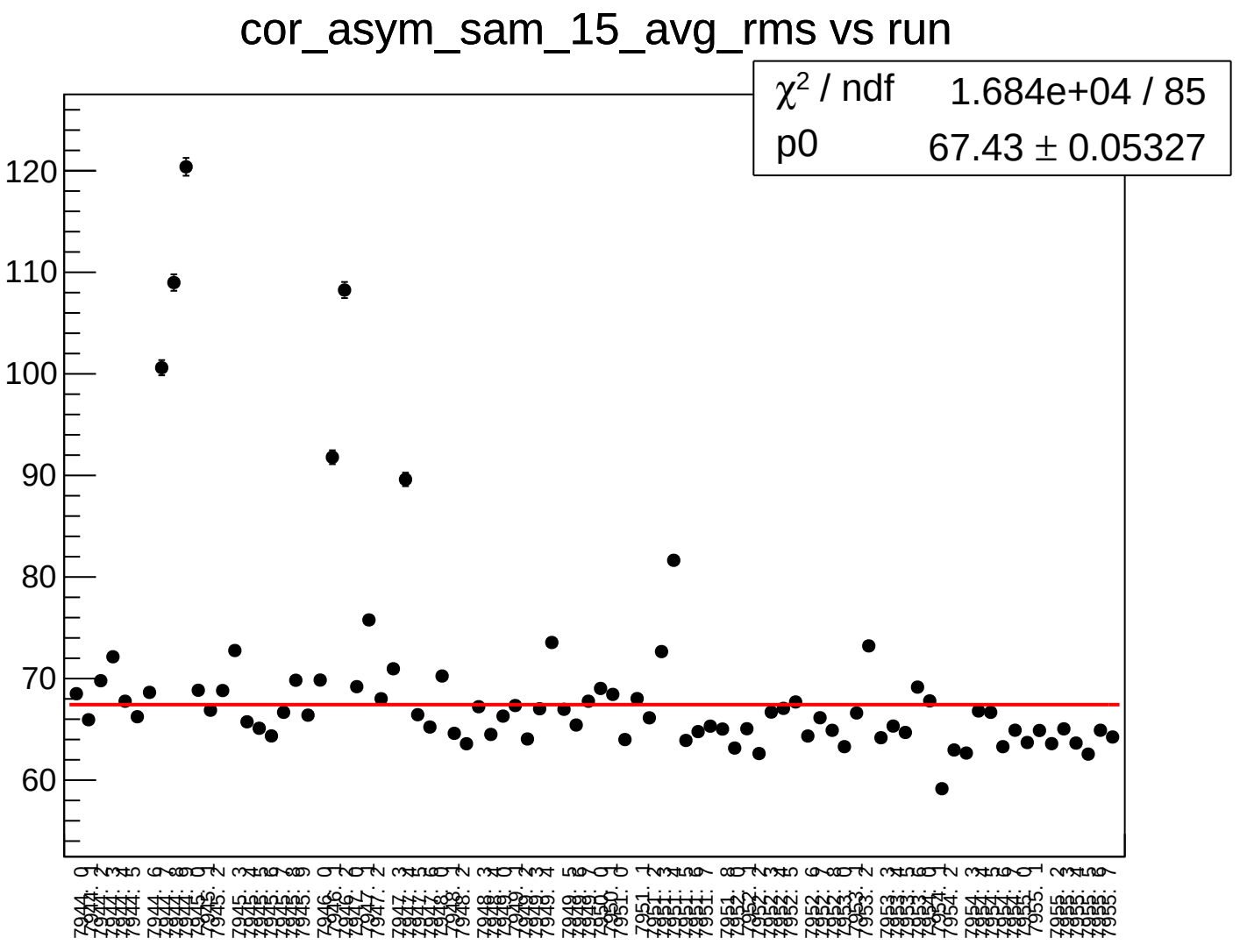

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 74.29 / 85
p0 −719.2 ± 335.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −123.3
Std Dev 0
2
1
0
−1
−2

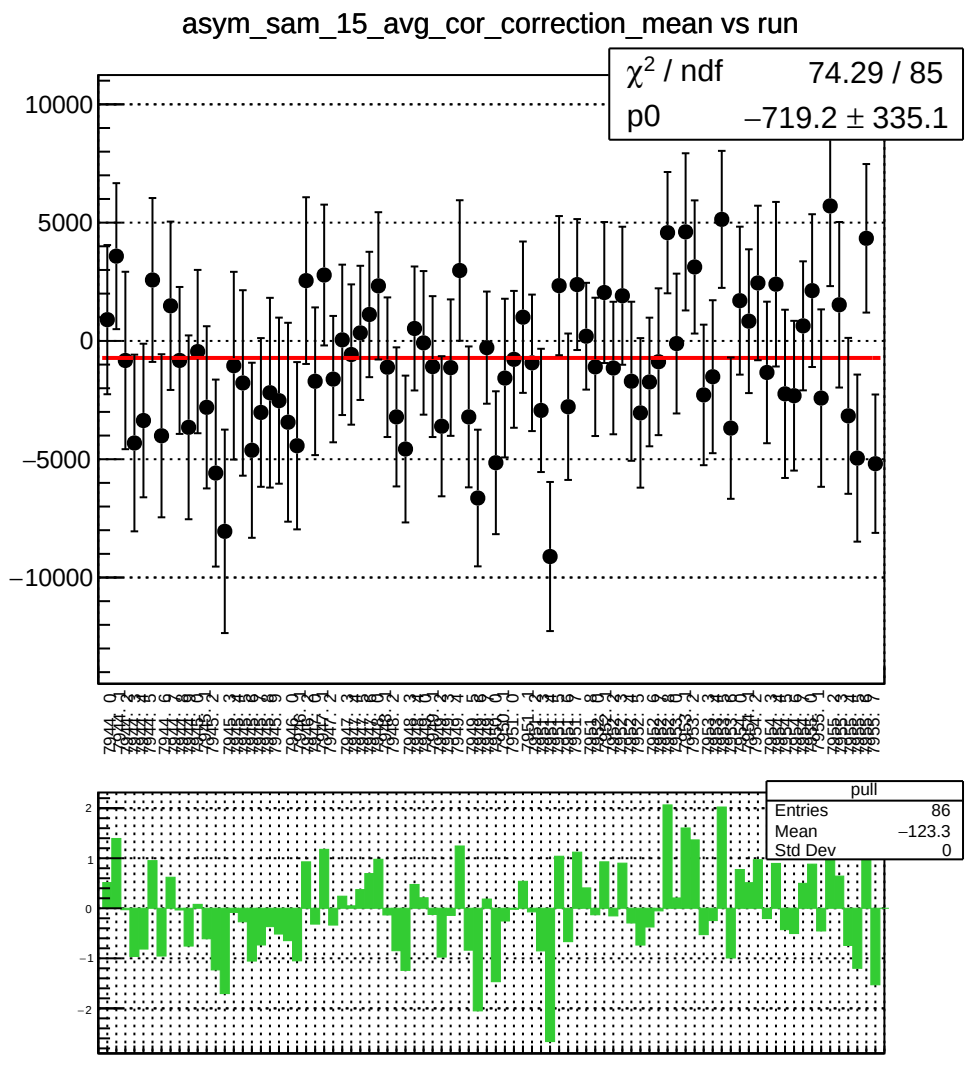

pull1D
Entries 86
Mean −0.02752
Std Dev 0.929
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

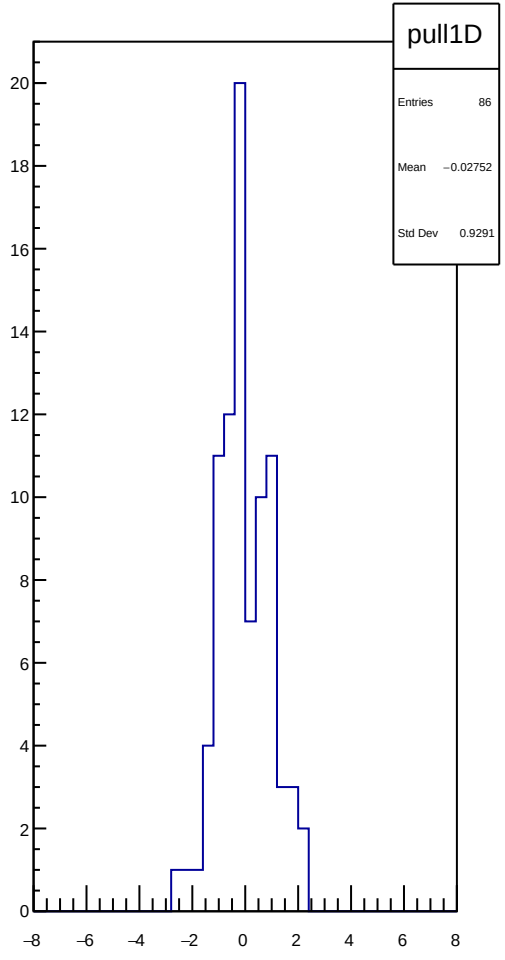

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.832e+04 / 85
p0 299.8 ± 0.237
420
400
380
360
340
320
300
280
260
240

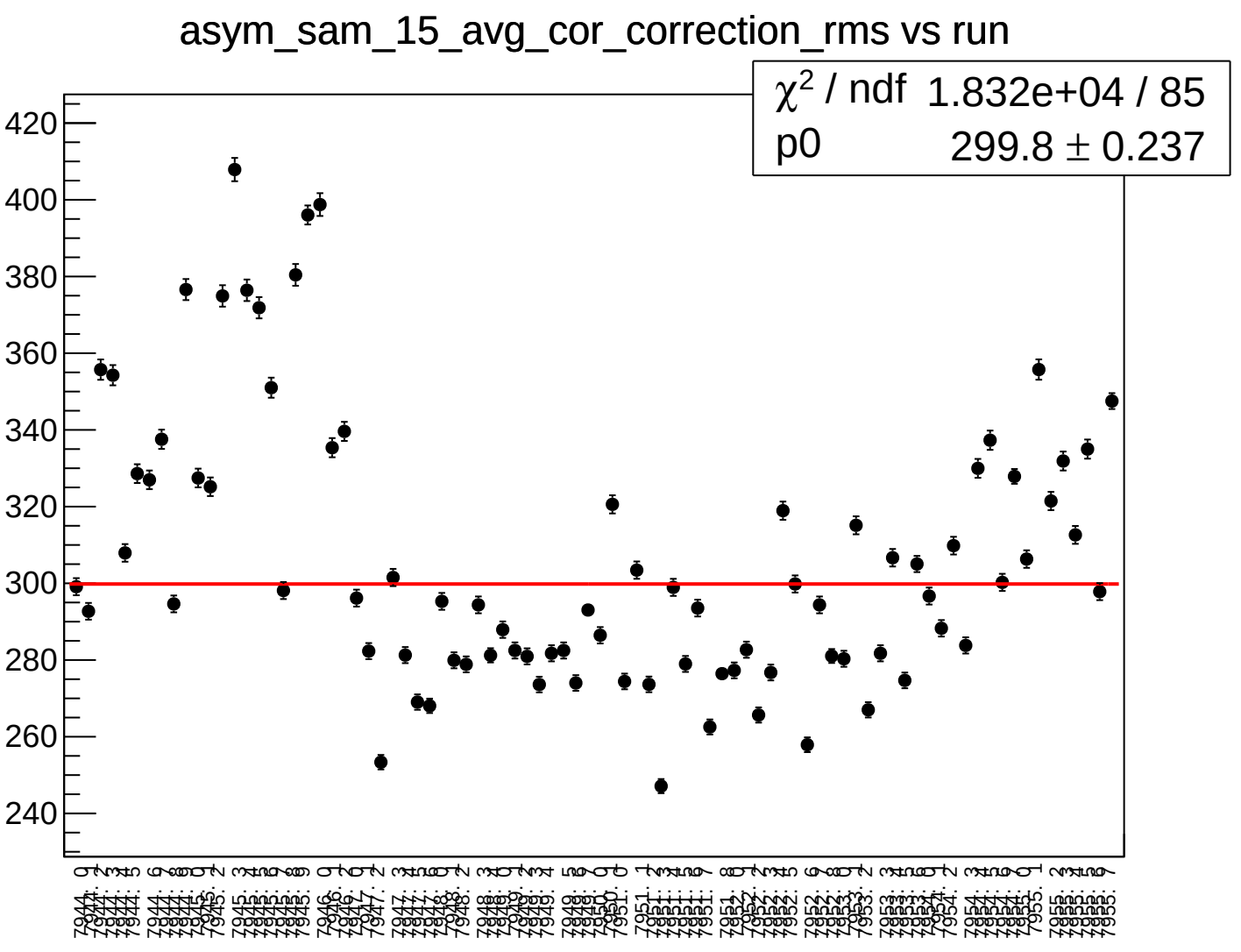

cor_asym_sam_15_avg_mean vs run
χ² / ndf 84.68 / 85
p0 133.8 ± 75.34
pull
Entries 86
Mean 96.97
Std Dev 0

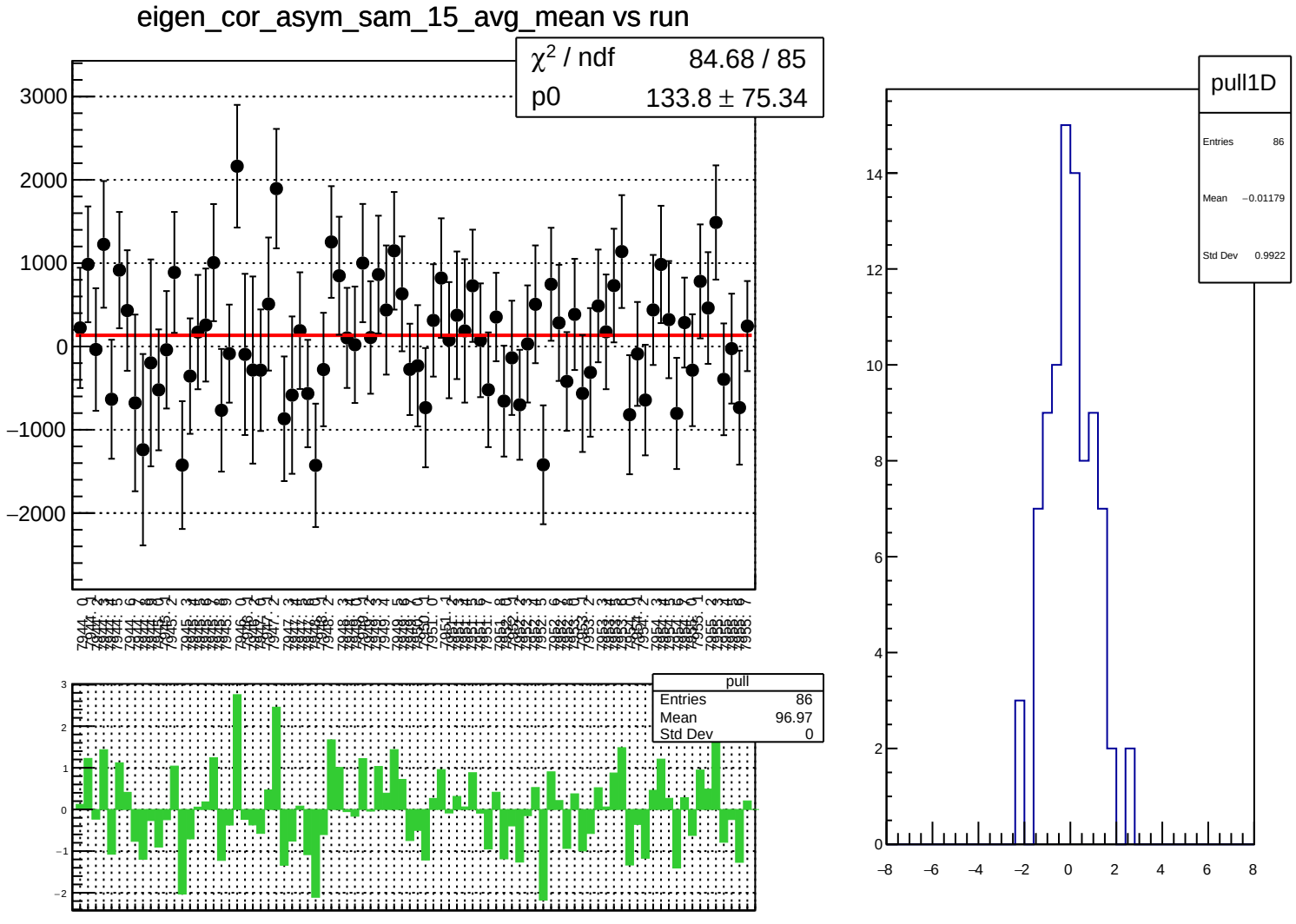

pull1D
Entries 86
Mean −0.01179
Std Dev 0.9922

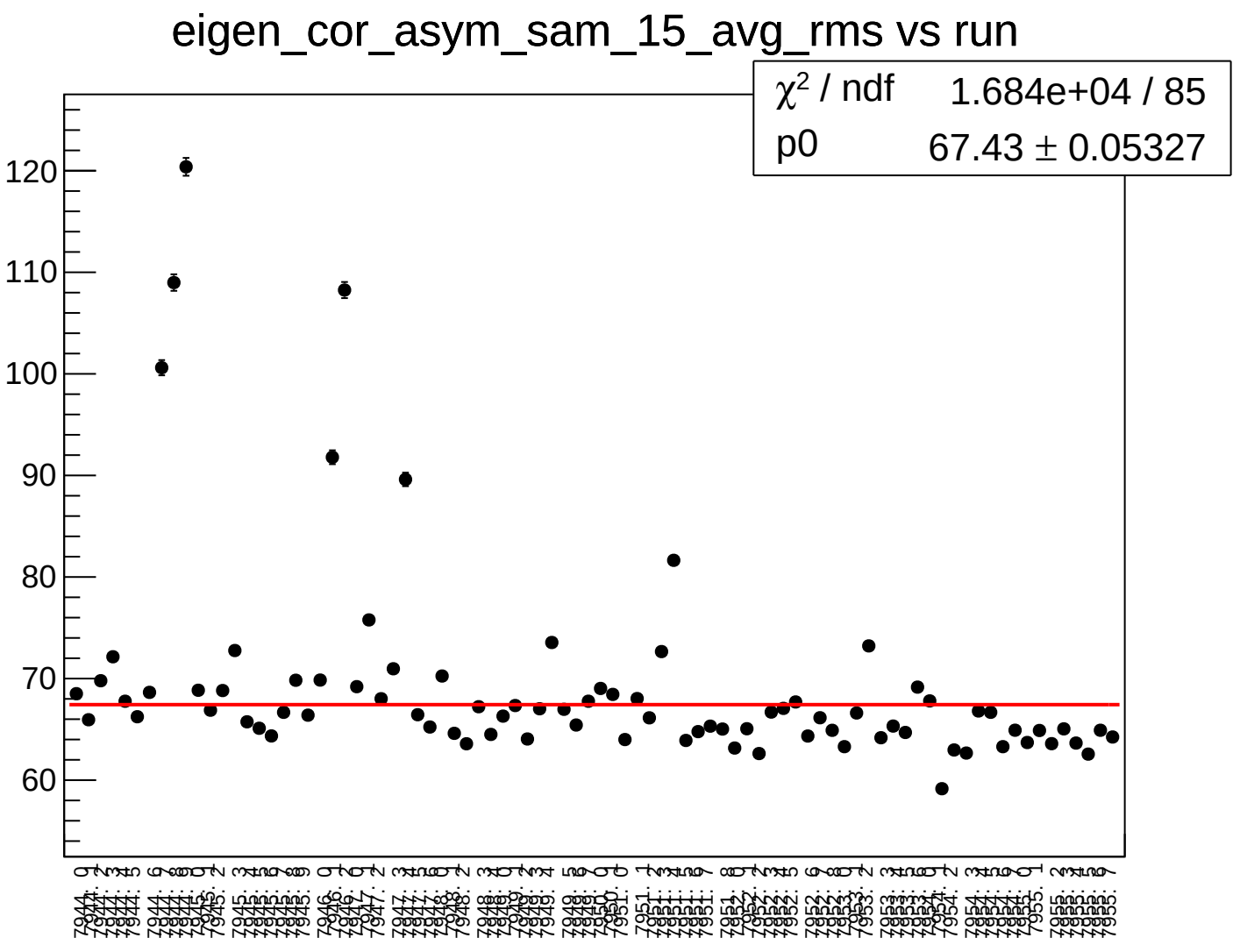

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.684e+04 / 85
p0 67.43 ± 0.05327
120
110
100
90
80
70
60

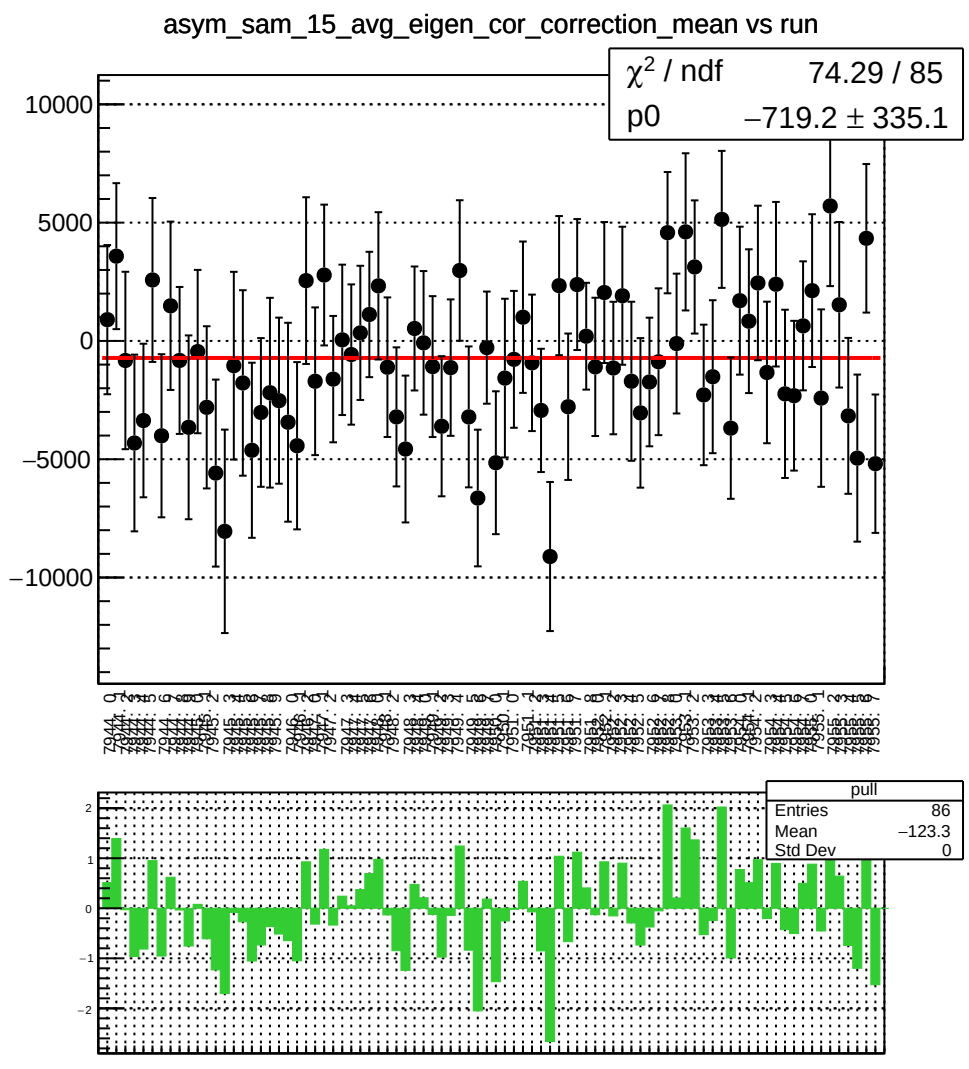

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 74.29 / 85
p0 −719.2 ± 335.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −123.3
Std Dev 0
2
1
0
−1
−2

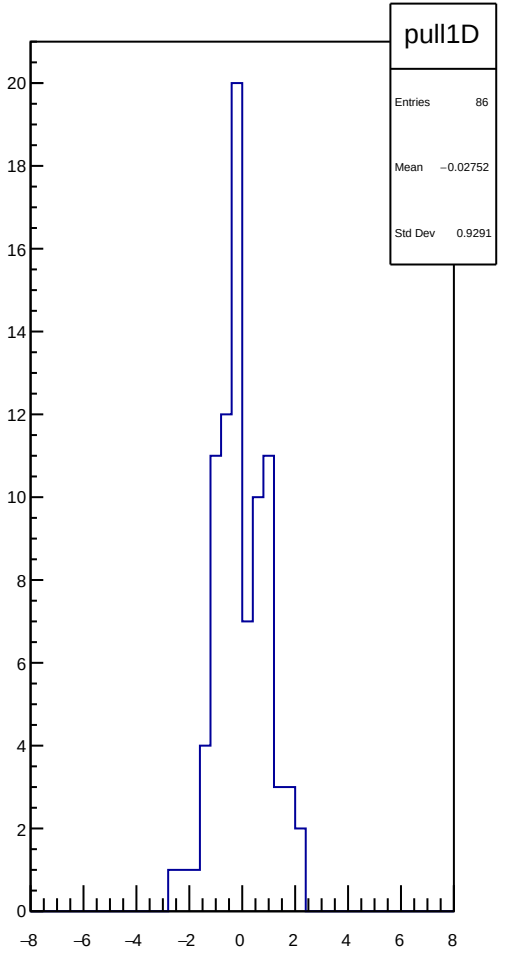

pull1D
Entries 86
Mean −0.02752
Std Dev 0.9291
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

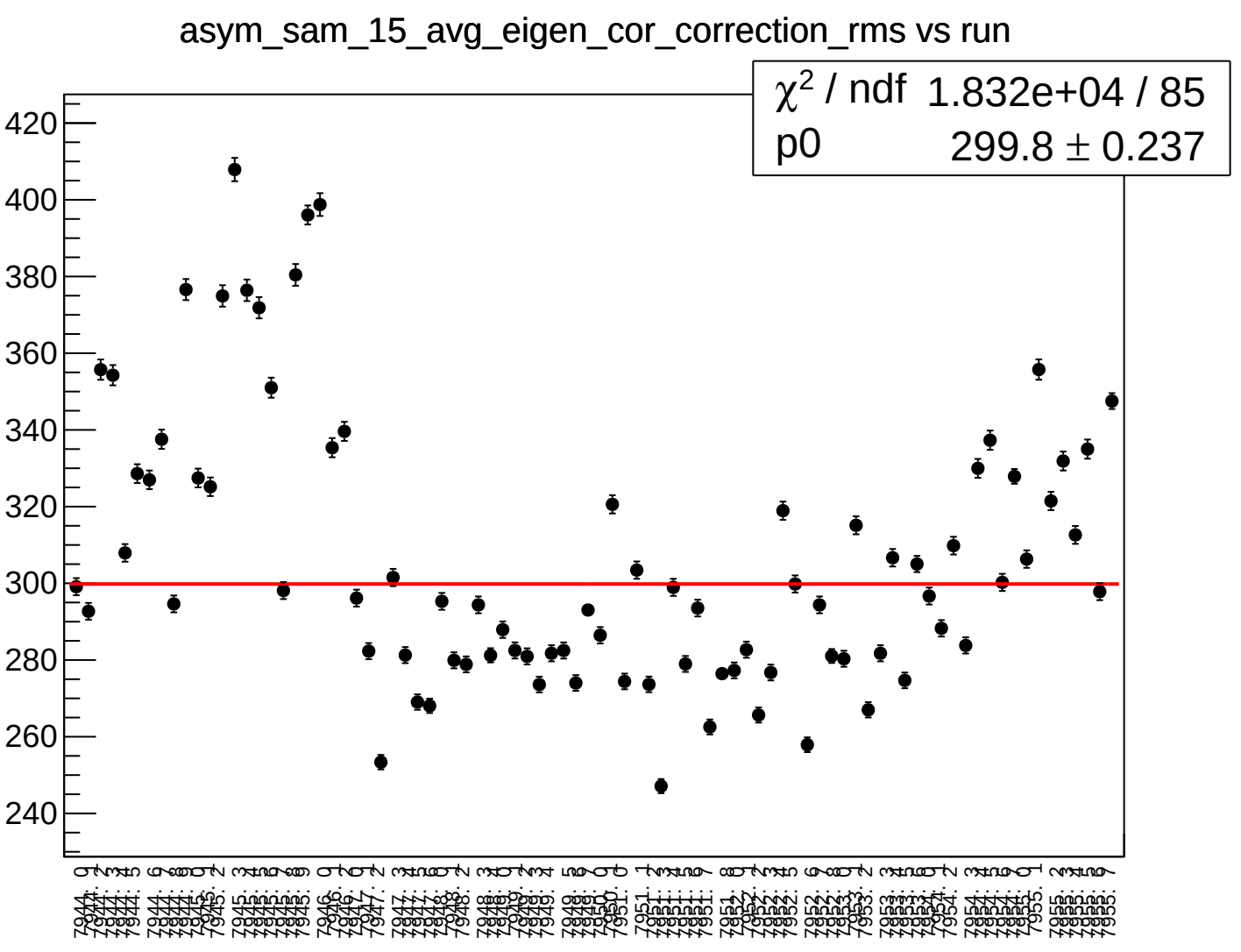

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.832e+04 / 85
p0 299.8 ± 0.237
420
400
380
360
340
320
300
280
260
240

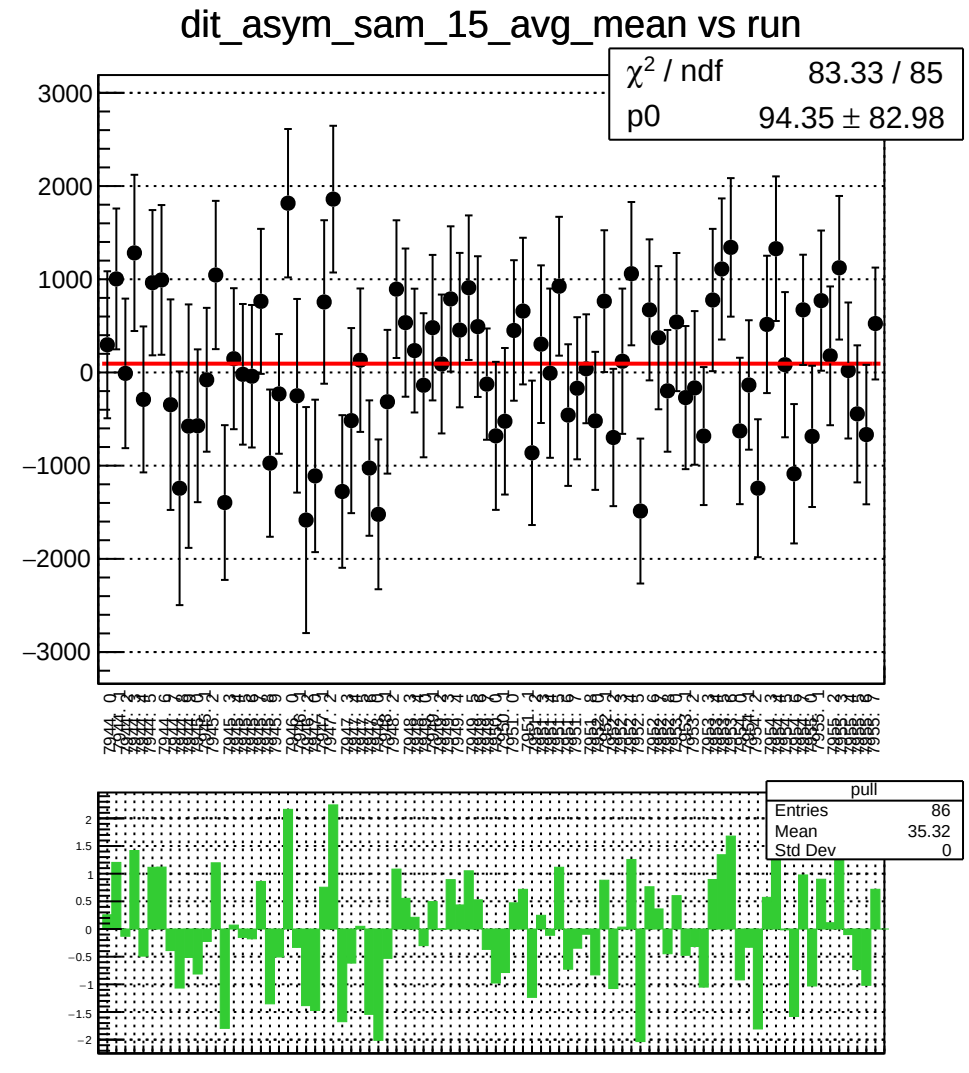

eigen_cor_asym_sam_15_avg_mean vs run
χ^2 / ndf 84.68 / 85
p0 133.8 ± 75.34
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 96.97
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01179
Std Dev 0.9922
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

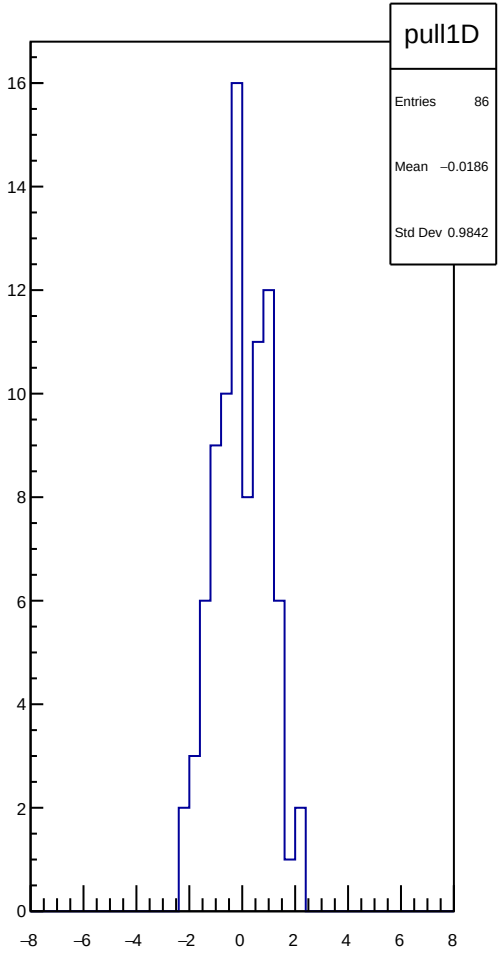

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.684e+04 / 85
p0 67.43 ± 0.05327
120
110
100
90
80
70
60

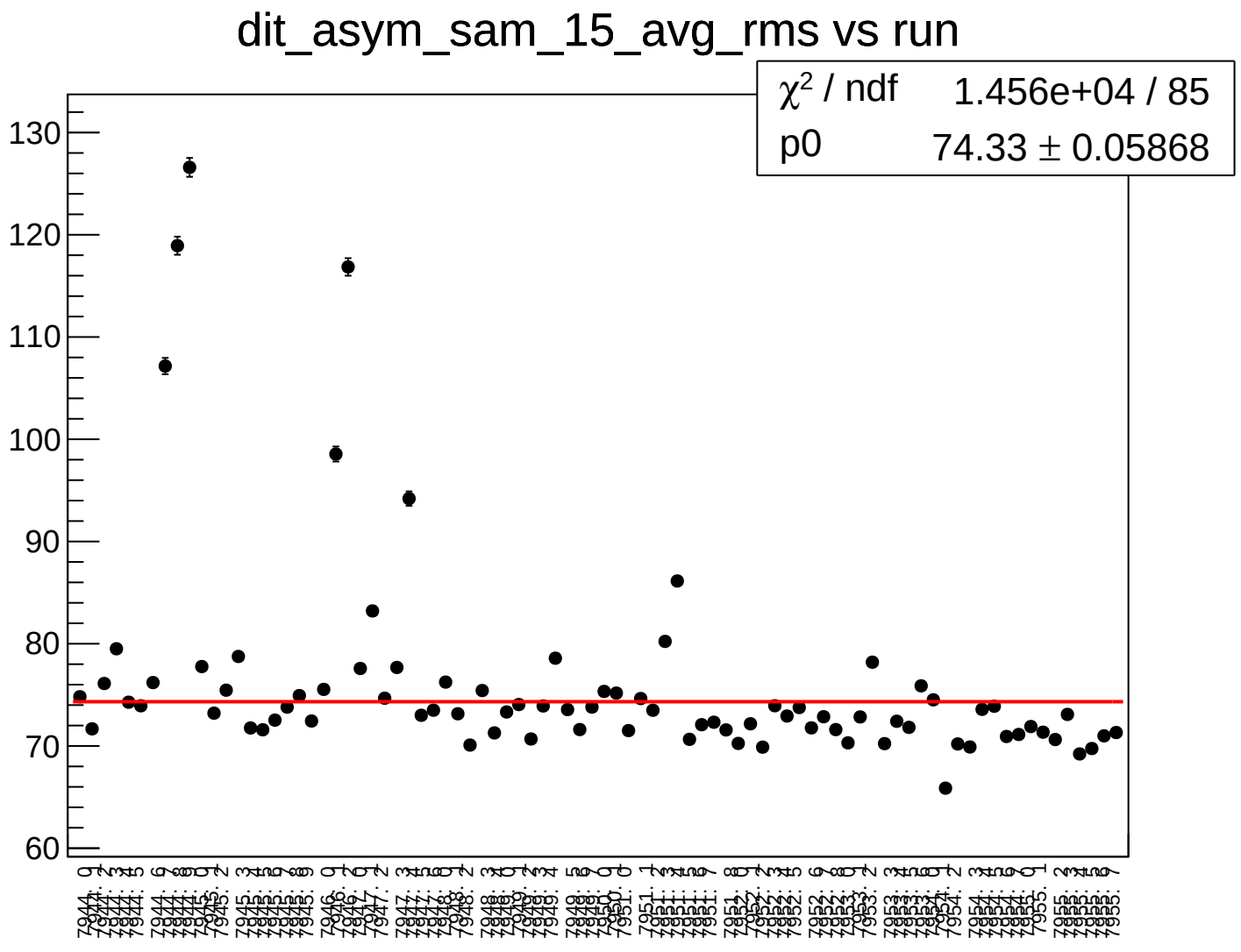

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.29 / 85
p0 −719.2 ± 335.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −123.3
Std Dev 0
2
1
0
−1
−2

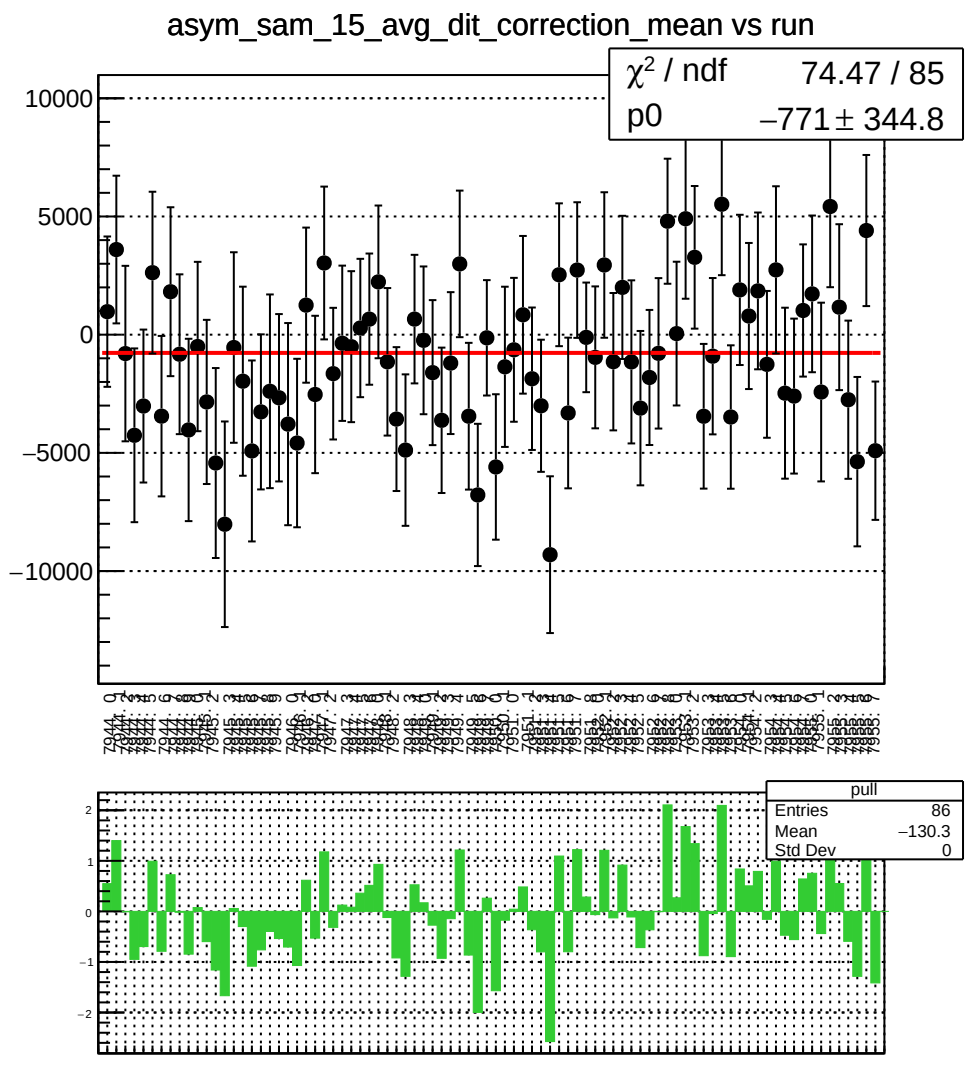

pull1D
Entries 86
Mean −0.02752
Std Dev 0.9291
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

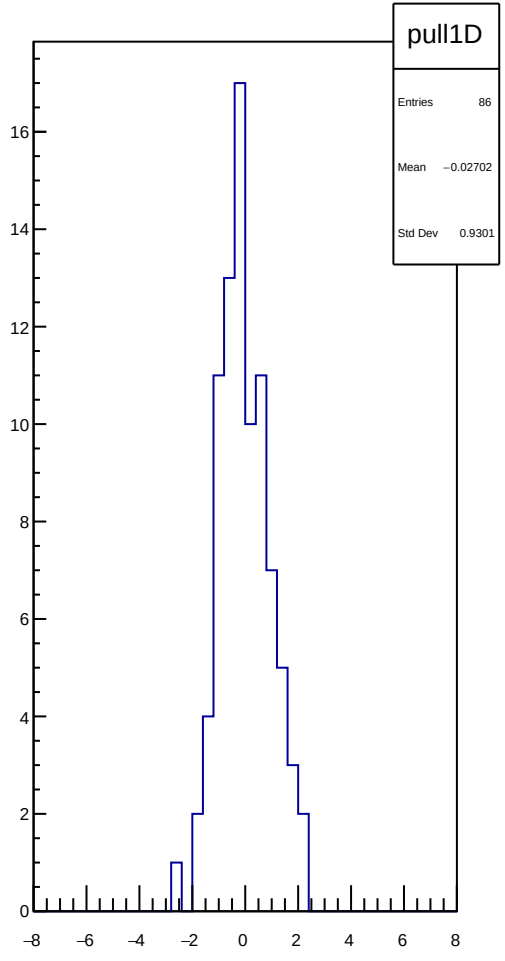

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.832e+04 / 85
p0 299.8 ± 0.237
420
400
380
360
340
320
300
280
260
240

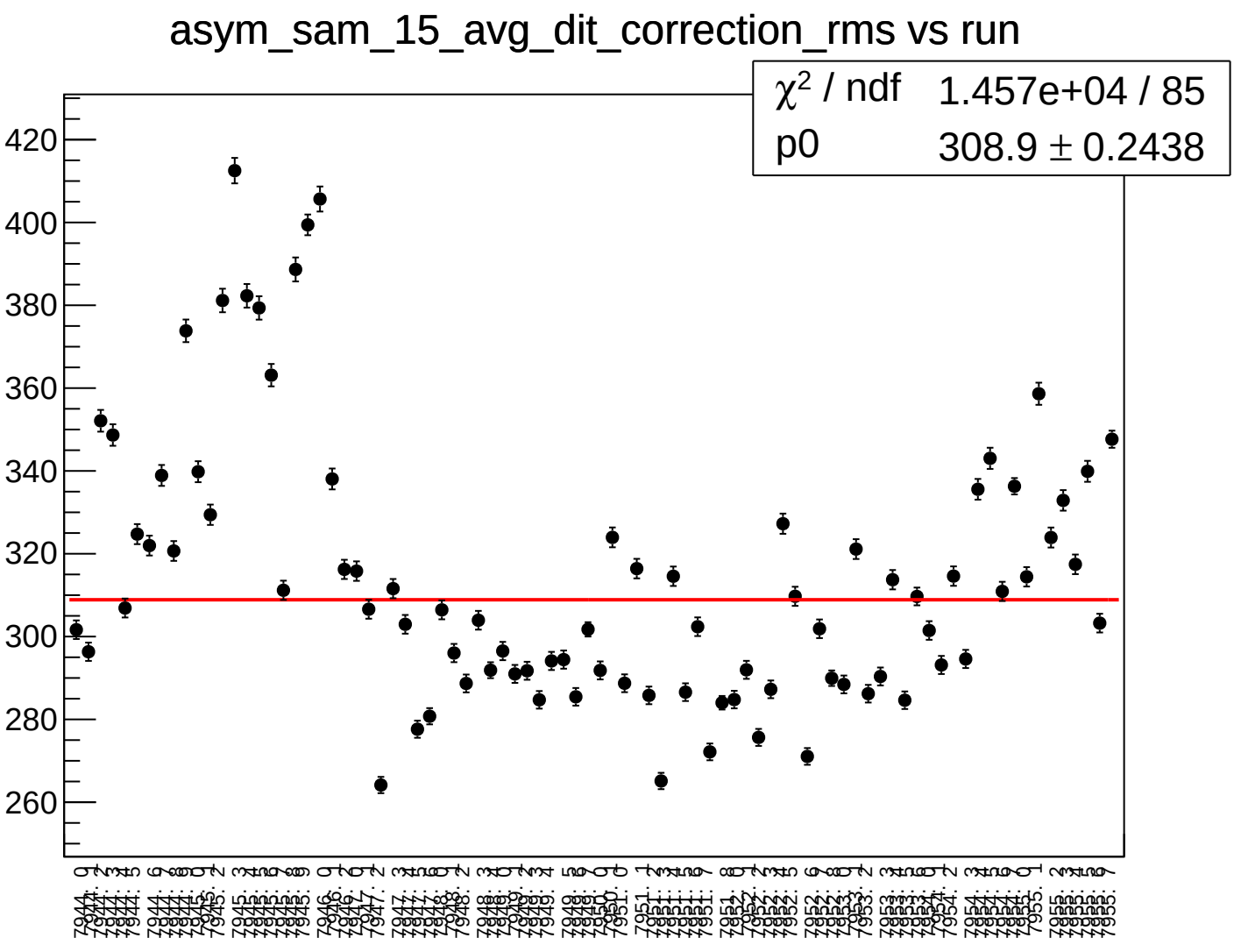

dit_asym_sam_15_avg_mean vs run
χ² / ndf 83.33 / 85
p0 94.35 ± 82.98
pull
Entries 86
Mean 35.32
Std Dev 0

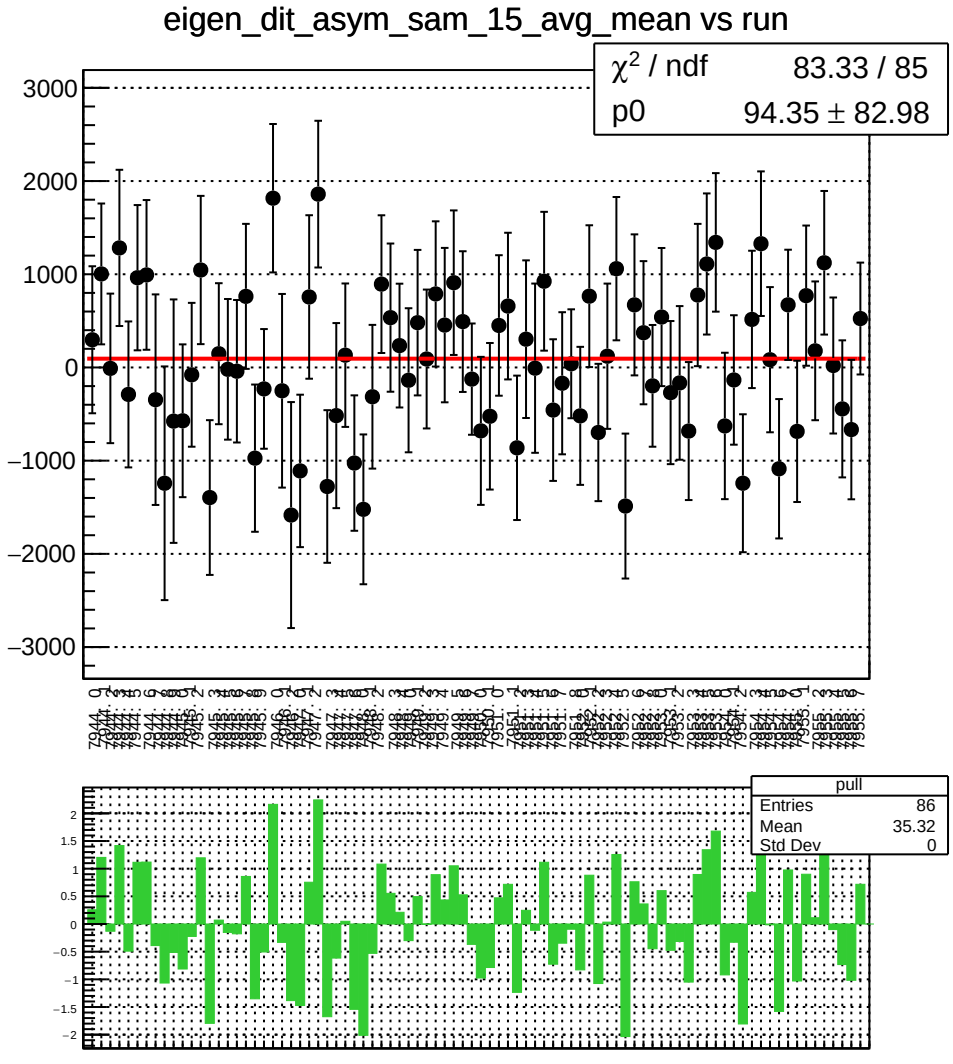

pull1D
Entries 86
Mean −0.0186
Std Dev 0.9842

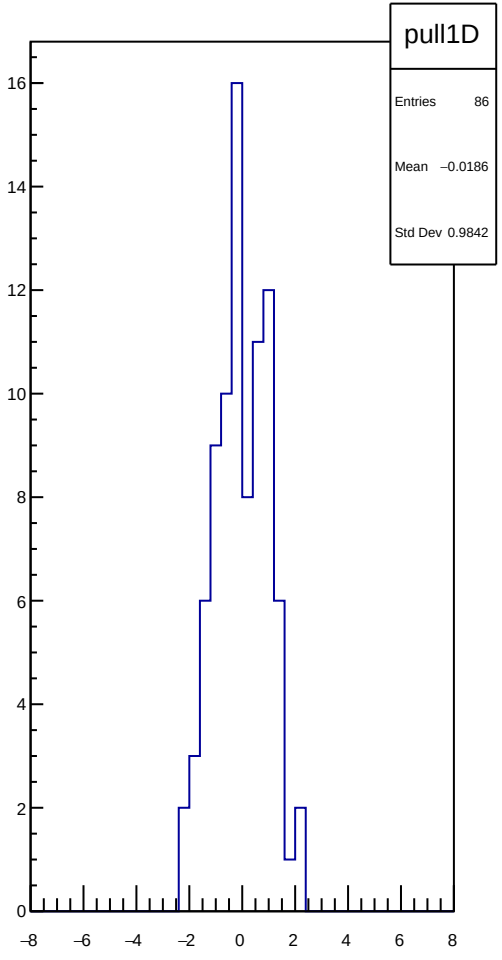

dit_asym_sam_15_avg_rms vs run
χ² / ndf 1.456e+04 / 85
p0 74.33 ± 0.05868
130
120
110
100
90
80
70
60

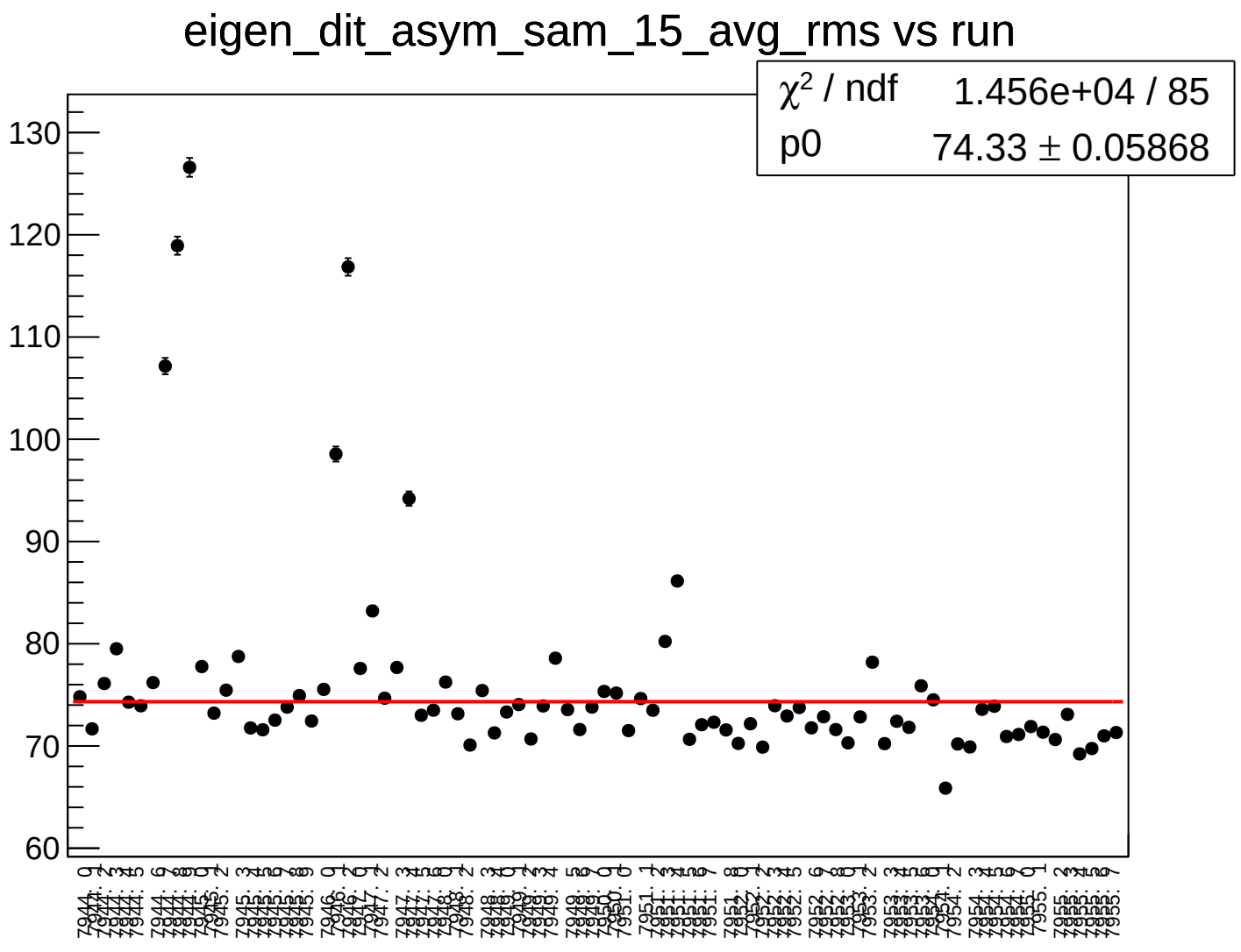

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 74.47 / 85
p0 −771 ± 344.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −130.3
Std Dev 0
2
1
0
−1
−2

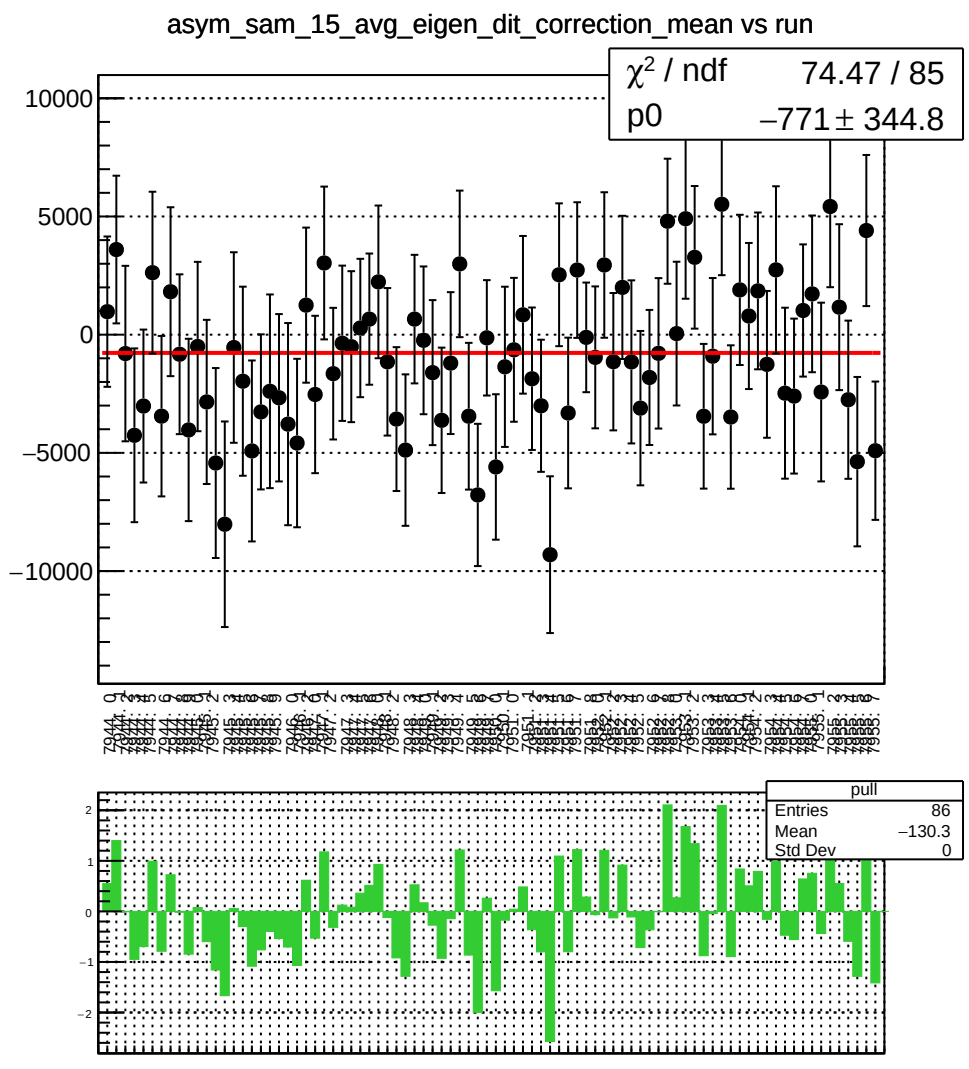

pull1D
Entries 86
Mean −0.02702
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

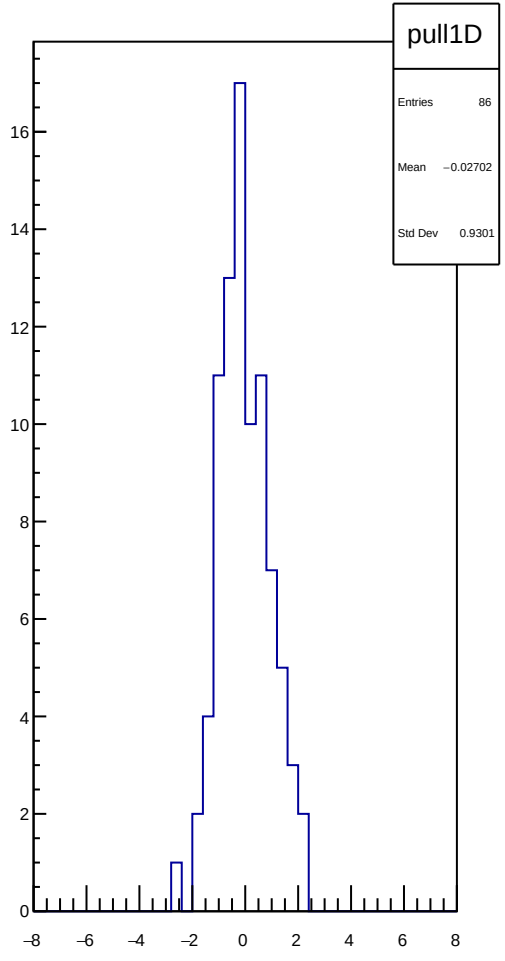

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.457e+04 / 85
p0 308.9 ± 0.2438
420
400
380
360
340
320
300
280
260

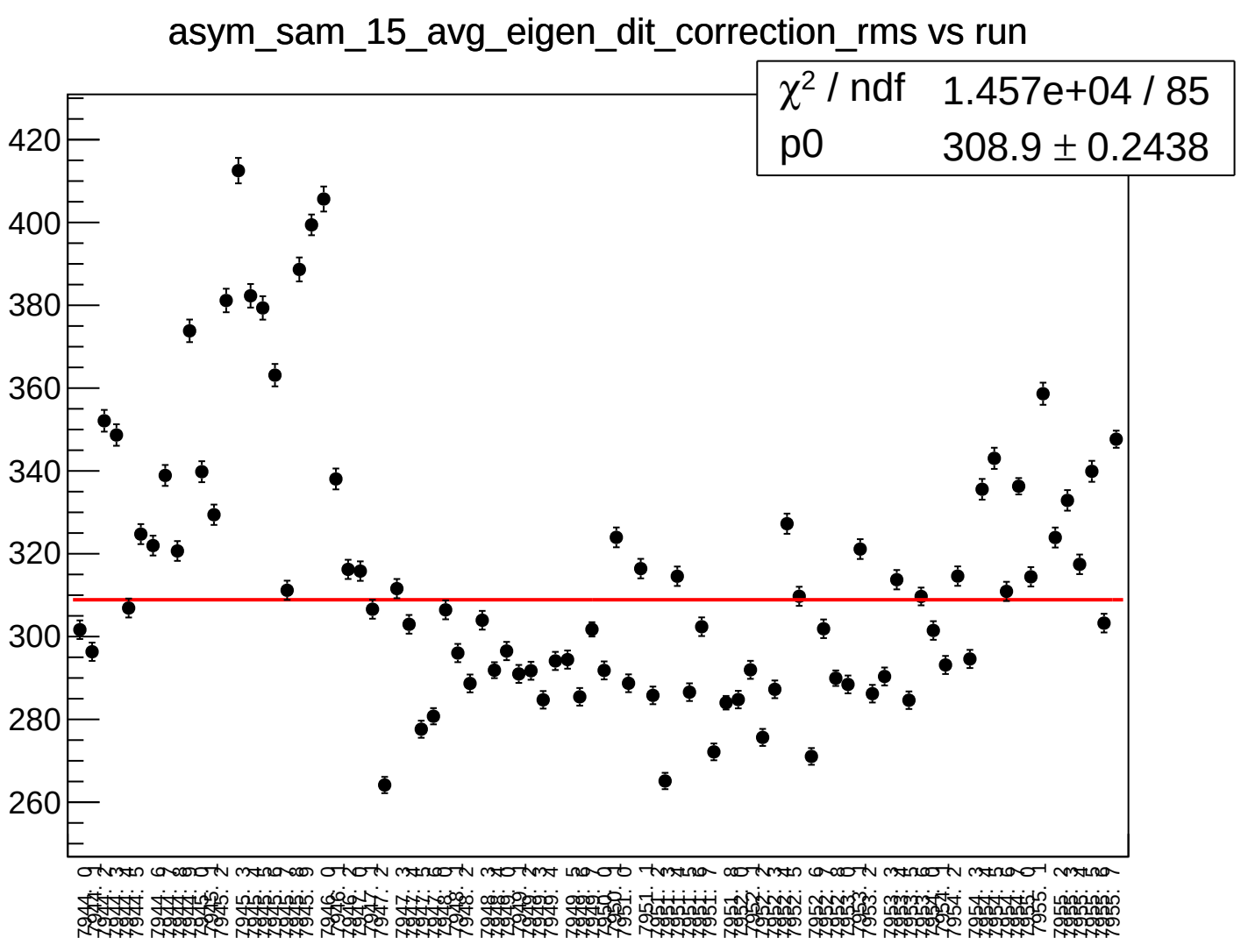

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 83.33 / 85
p0 94.35 ± 82.98
pull
Entries 86
Mean 35.32
Std Dev 0

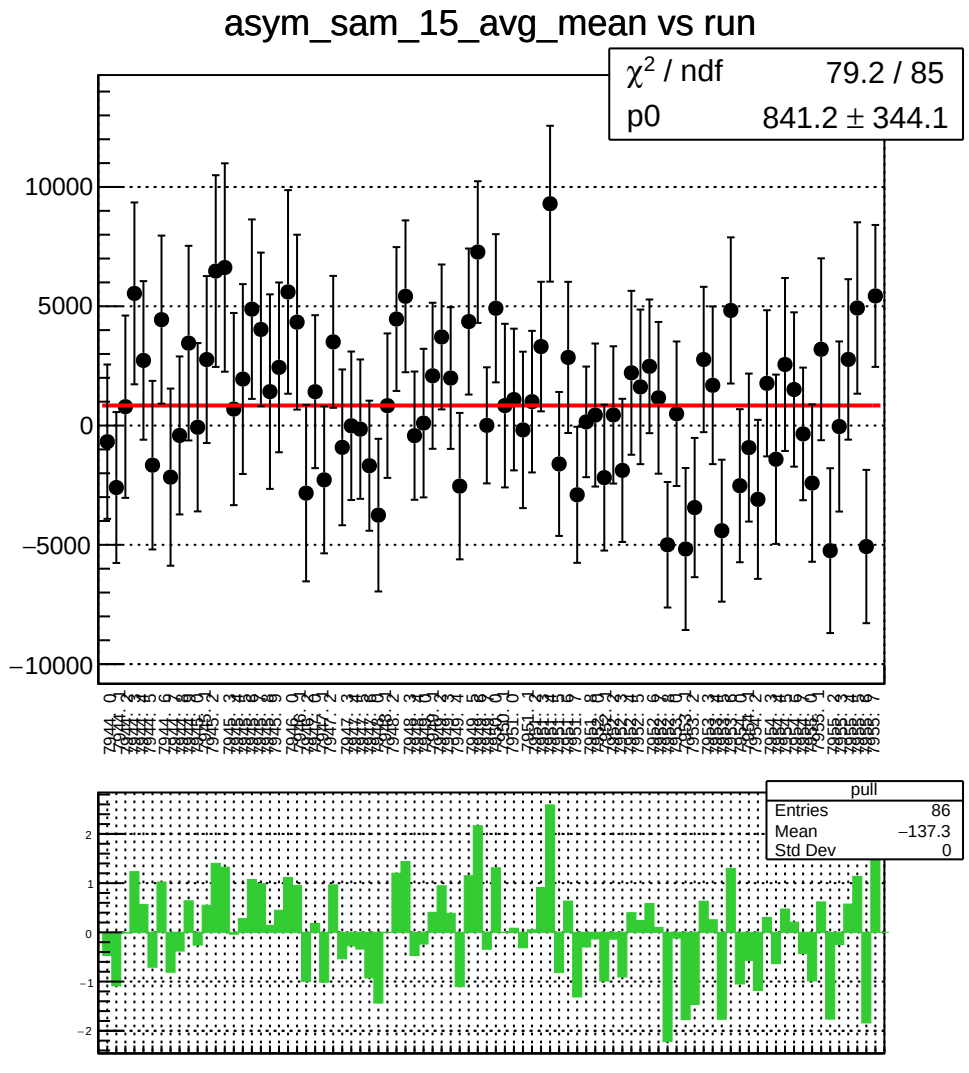

pull1D
Entries 86
Mean −0.0186
Std Dev 0.9842

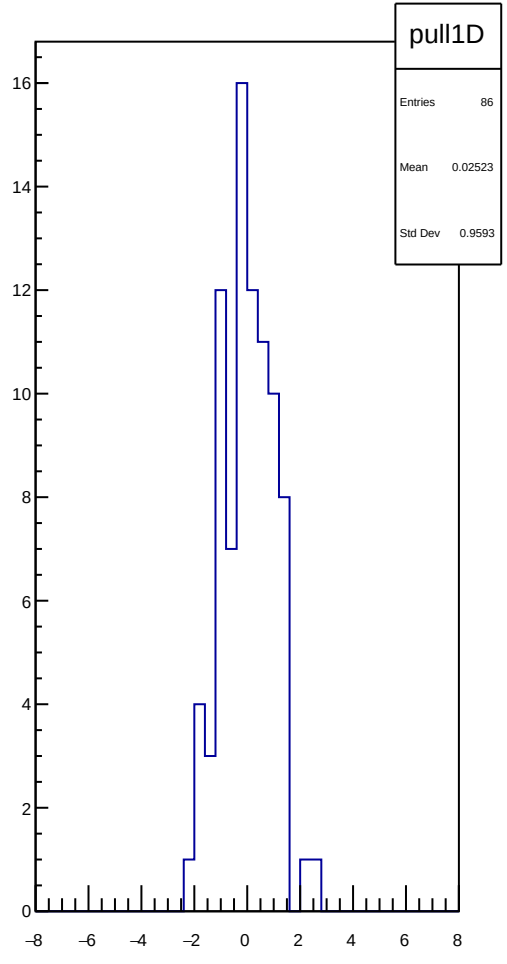

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1.456e+04 / 85
p0 74.33 ± 0.05868
130
120
110
100
90
80
70
60

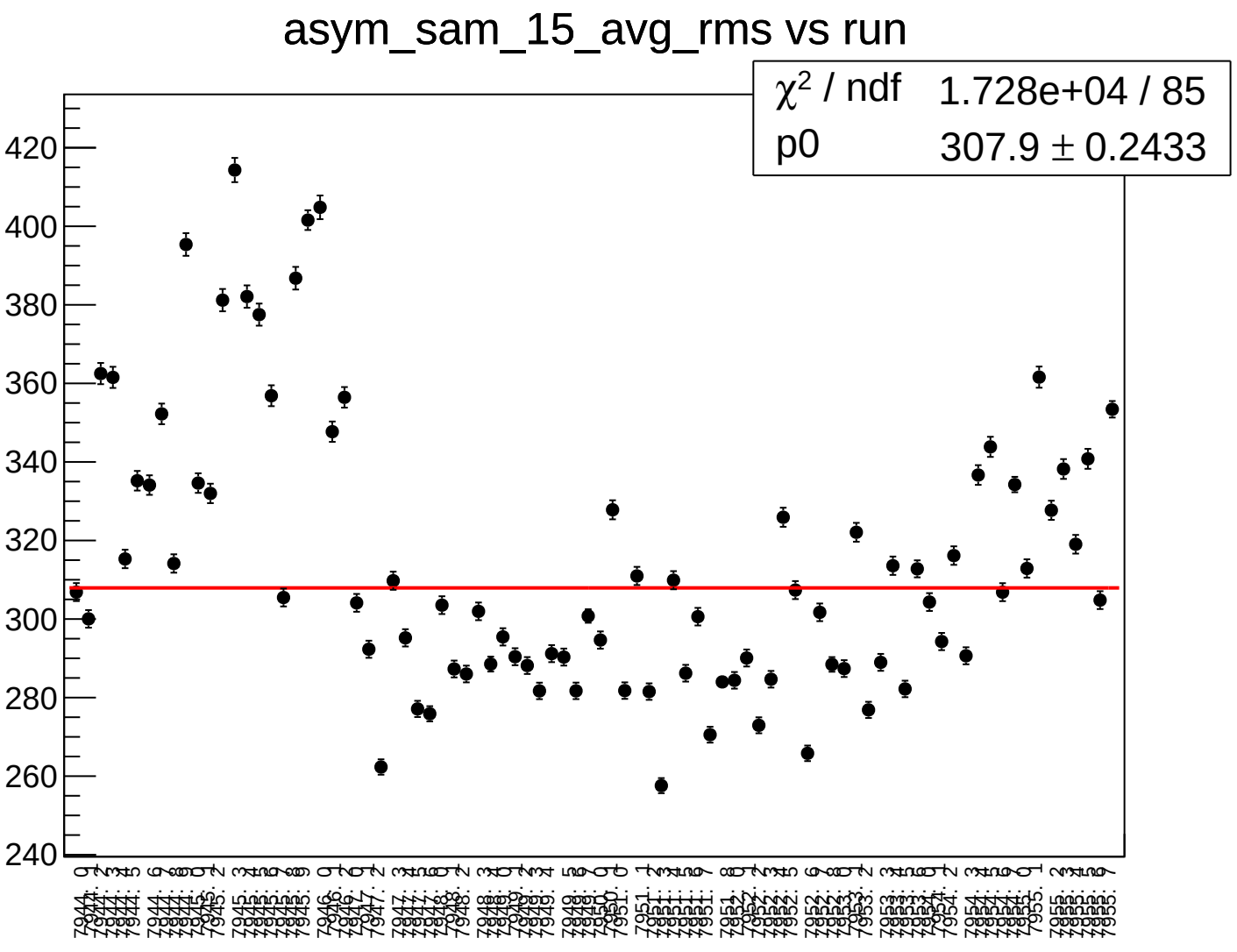

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.47 / 85
p0 −771 ± 344.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −130.3
Std Dev 0
2
1
0
−1
−2

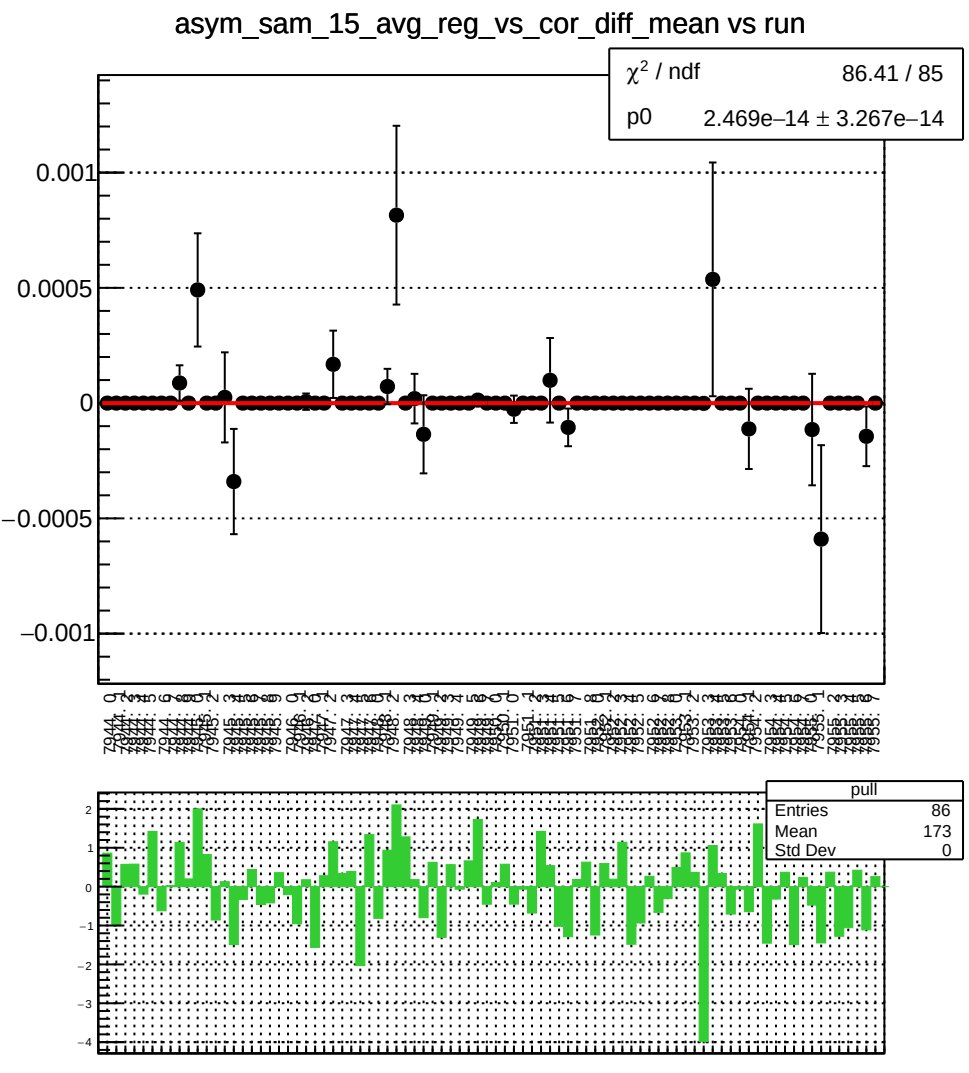

pull1D
Entries 86
Mean −0.02702
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

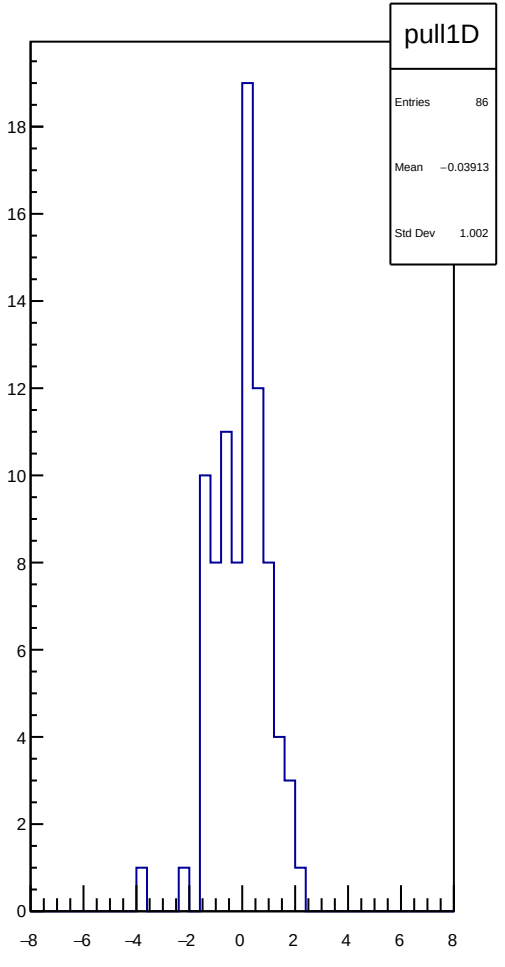

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.457e+04 / 85
p0 308.9 ± 0.2438
420
400
380
360
340
320
300
280
260

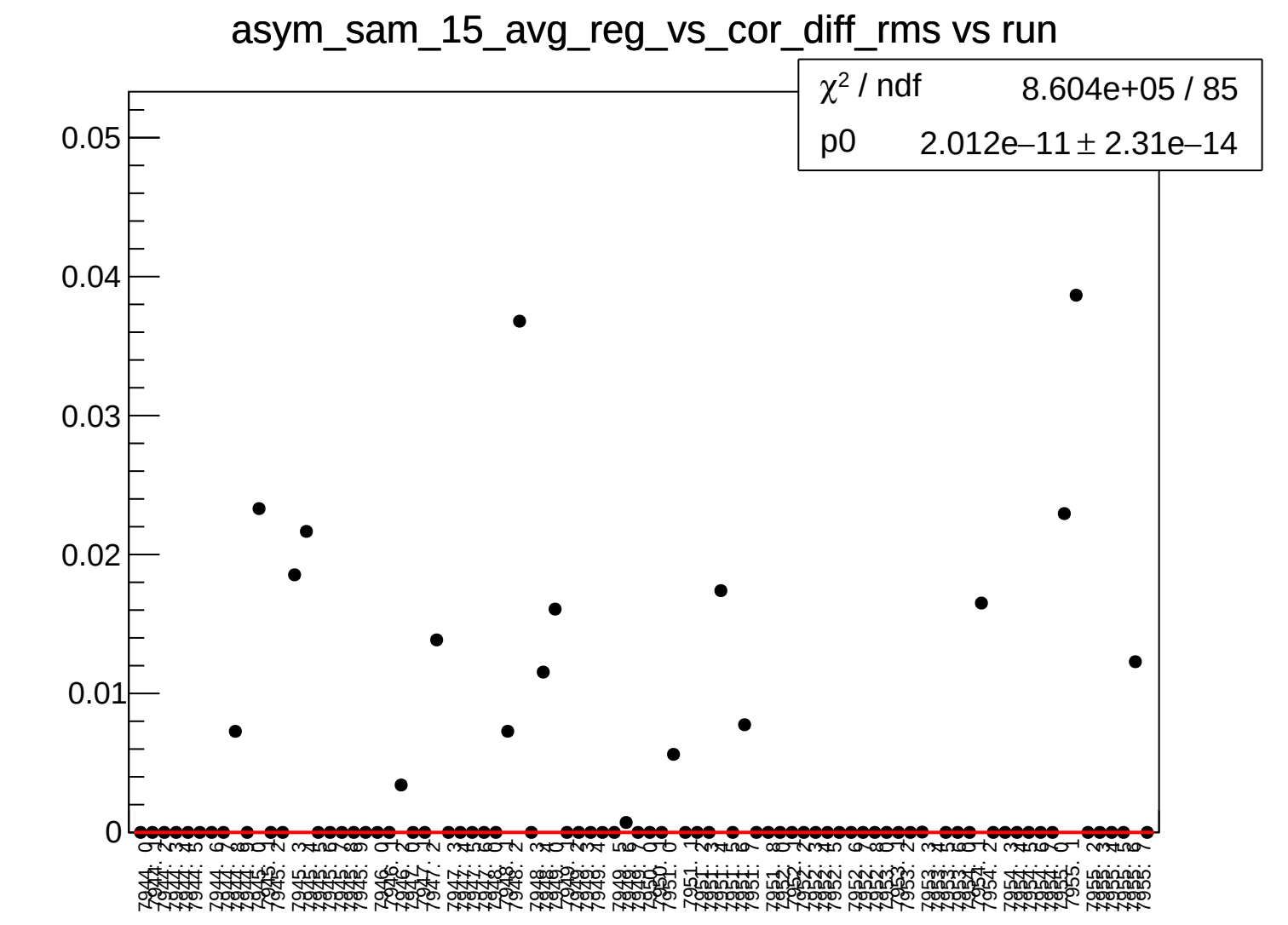

asym_sam_15_avg_mean vs run
χ² / ndf 79.2 / 85
p0 841.2 ± 344.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −137.3
Std Dev 0
2
1
0
−1
−2

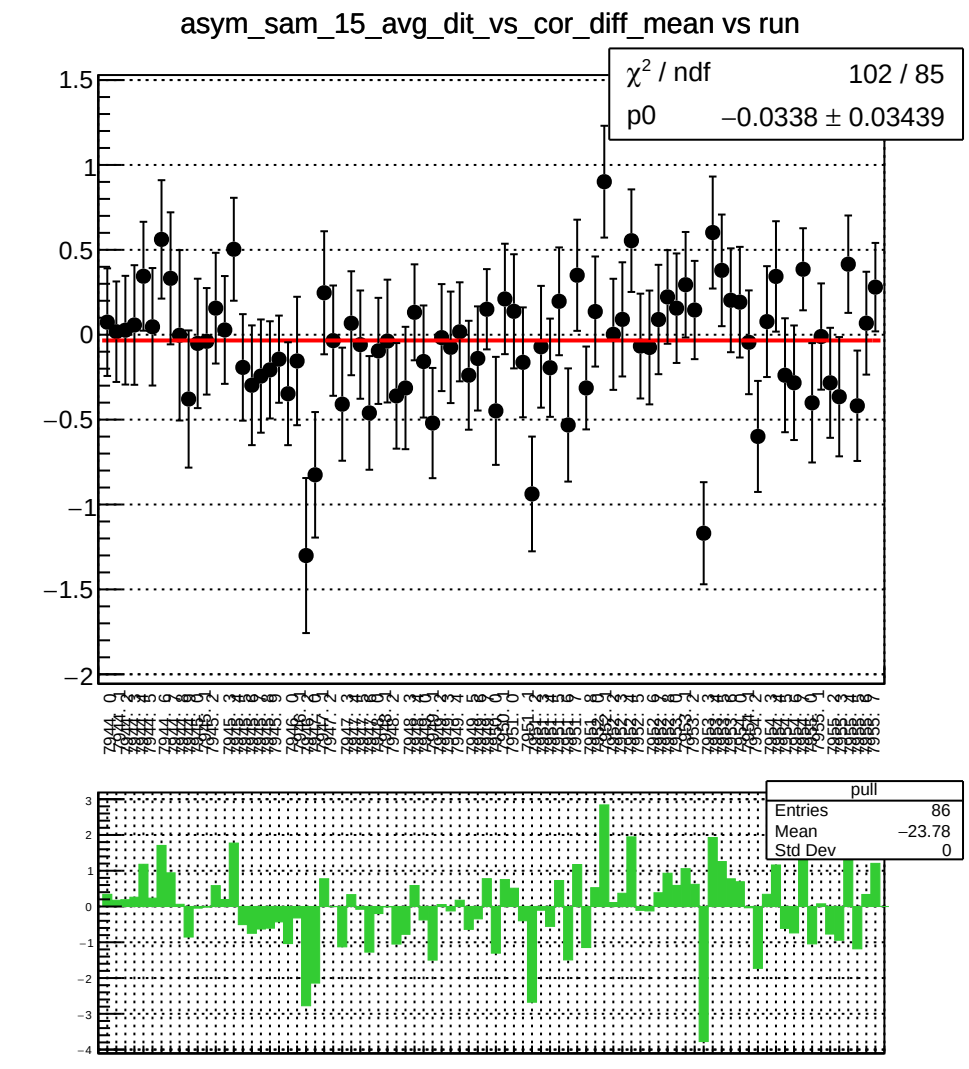

pull1D
Entries 86
Mean 0.02523
Std Dev 0.9593
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

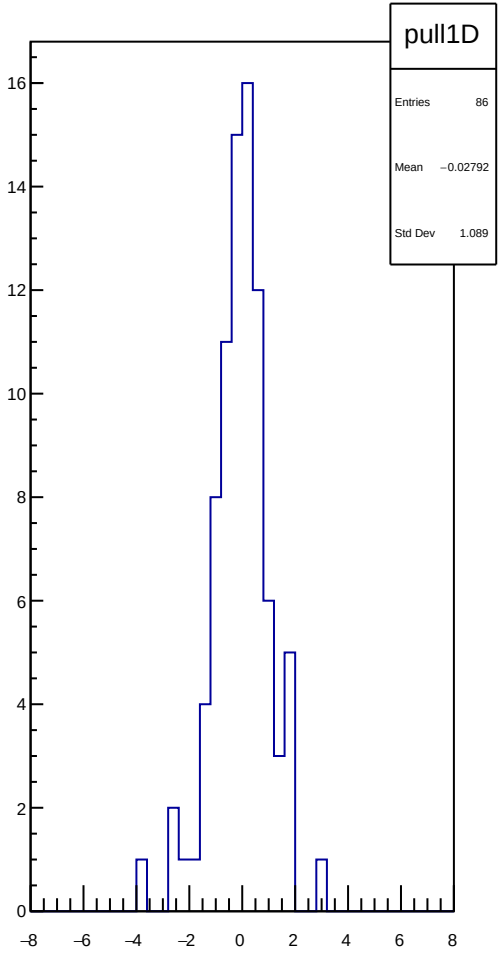

asym_sam_15_avg_rms vs run
χ² / ndf 1.728e+04 / 85
p0 307.9 ± 0.2433
420
400
380
360
340
320
300
280
260
240

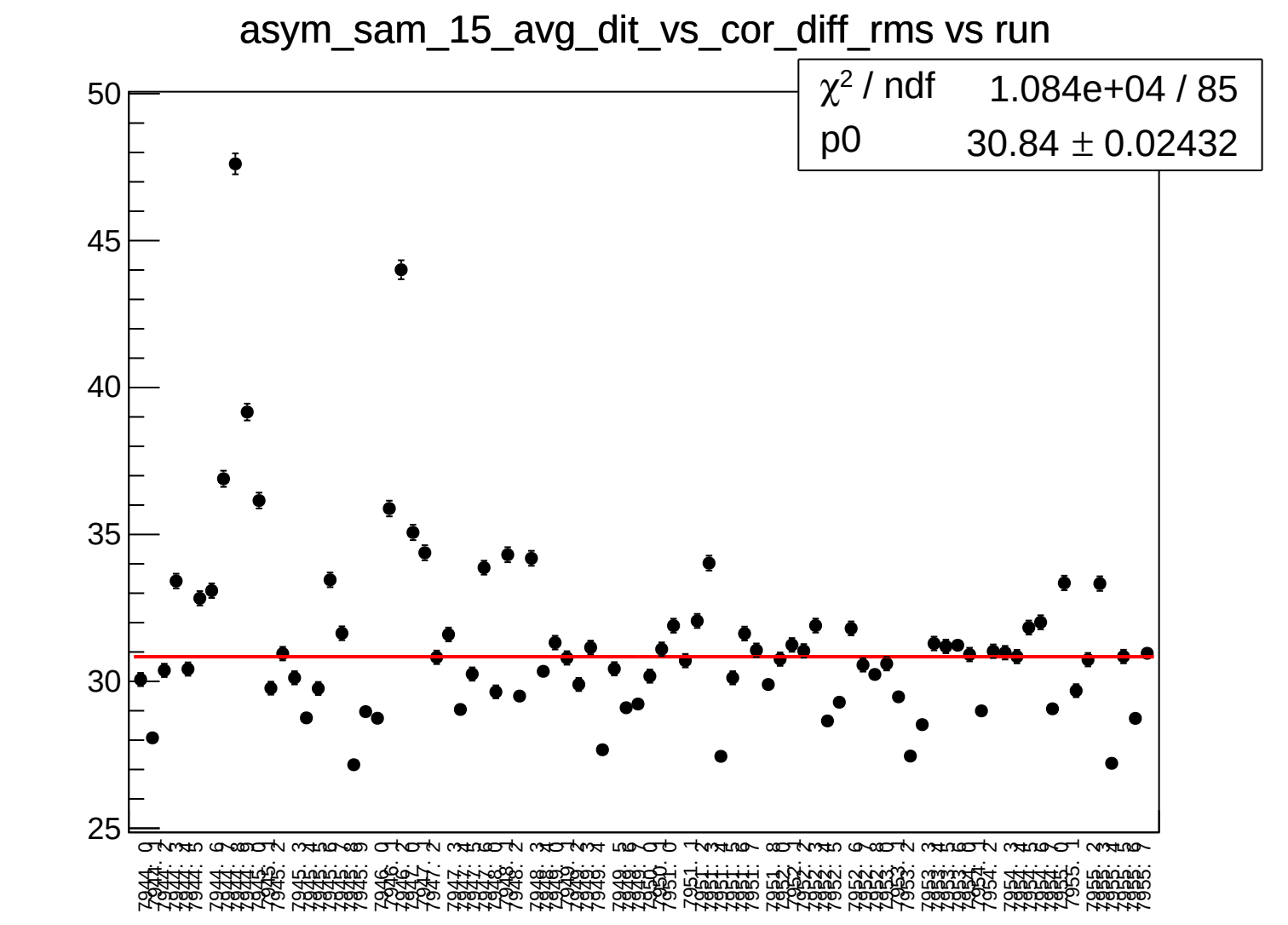

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.41 / 85
p0 2.469e−14 ± 3.267e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 173
Std Dev 0
2
1
0
−1
−2
−3
−4

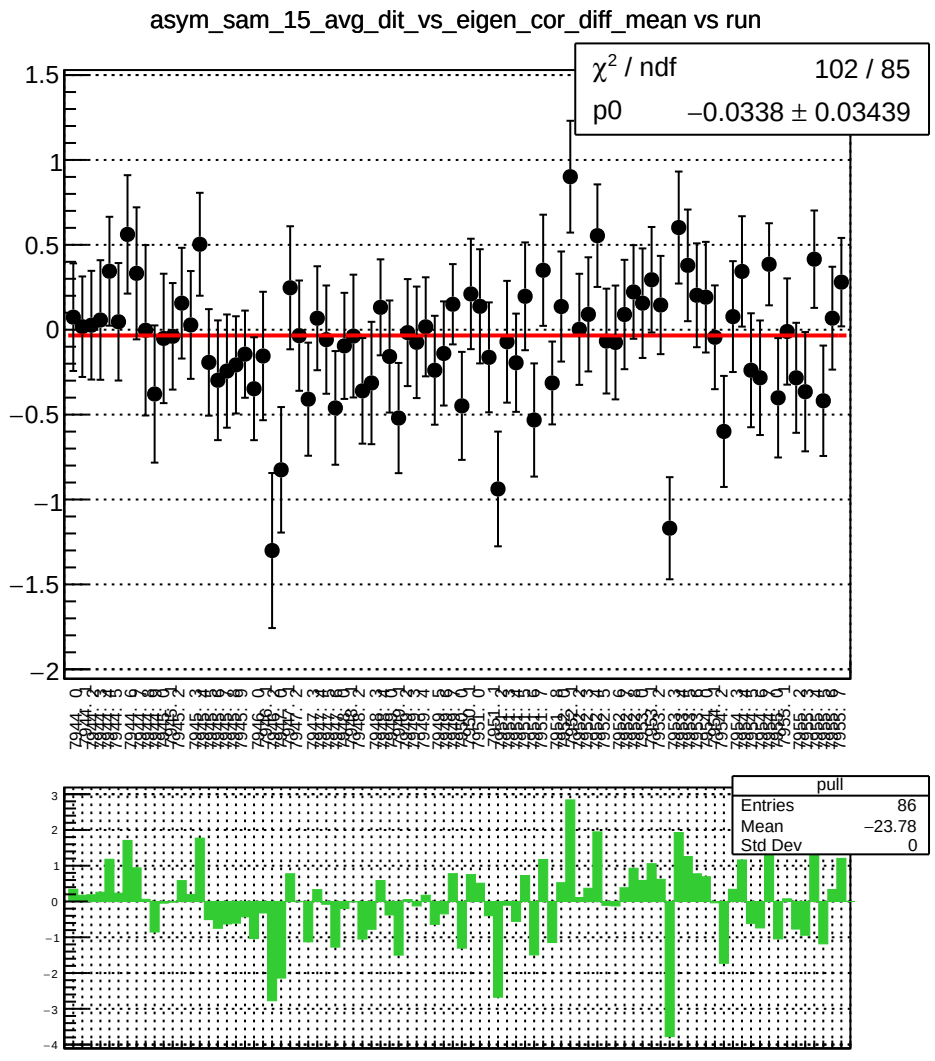

pull1D
Entries 86
Mean −0.03913
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

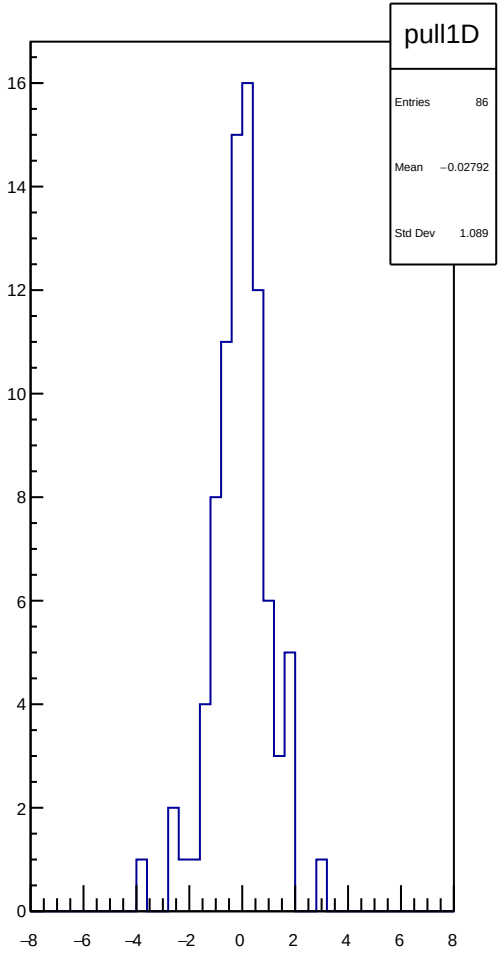

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.604e+05 / 85
p0 2.012e−11 ± 2.31e−14
0.05
0.04
0.03
0.02
0.01
0

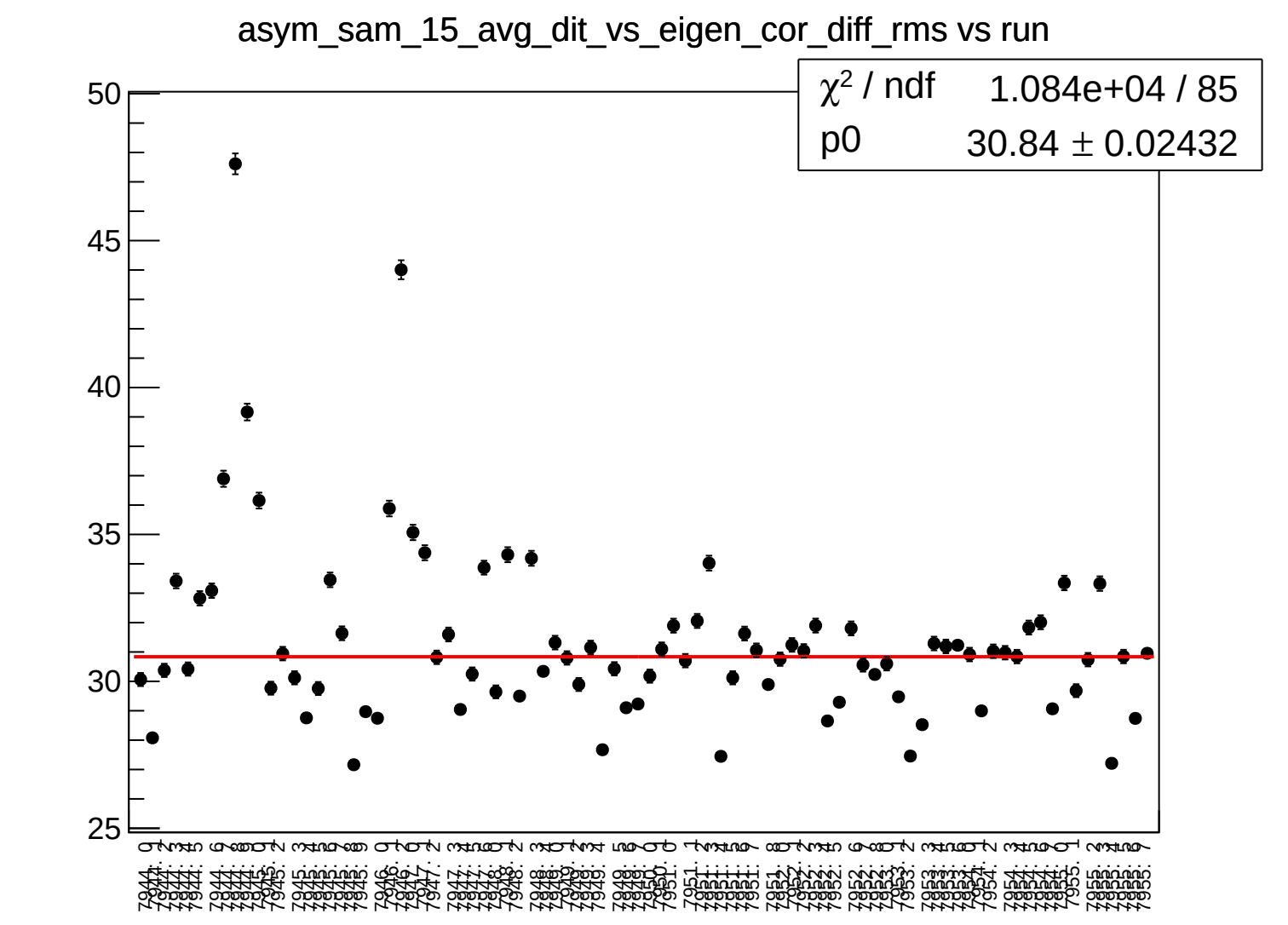

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 85
p0 −0.0338 ± 0.03439
pull
Entries 86
Mean −23.78
Std Dev 0

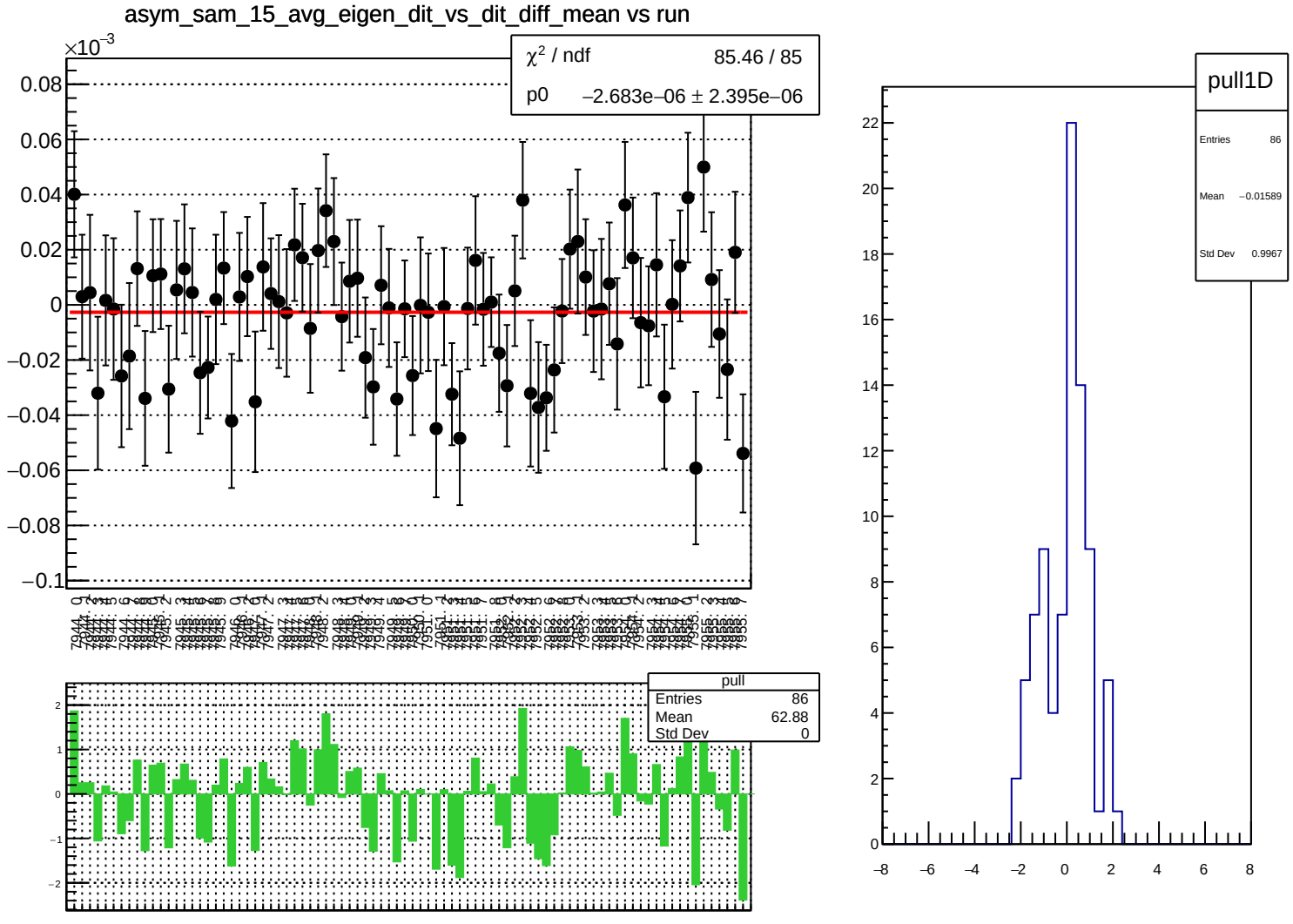

pull1D
Entries 86
Mean −0.02792
Std Dev 1.089

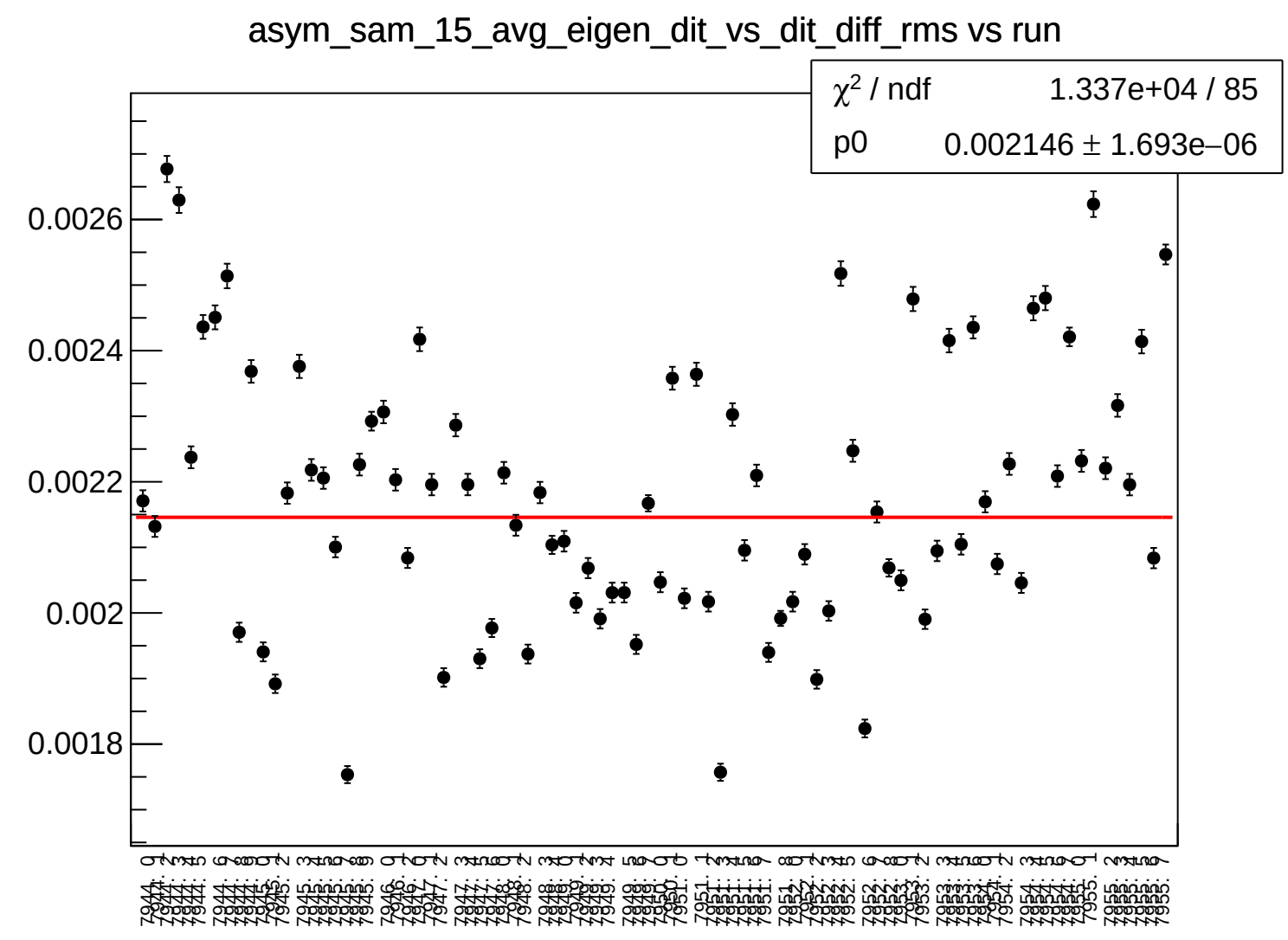

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.084e+04 / 85
p0 30.84 ± 0.02432
50
45
40
35
30
25

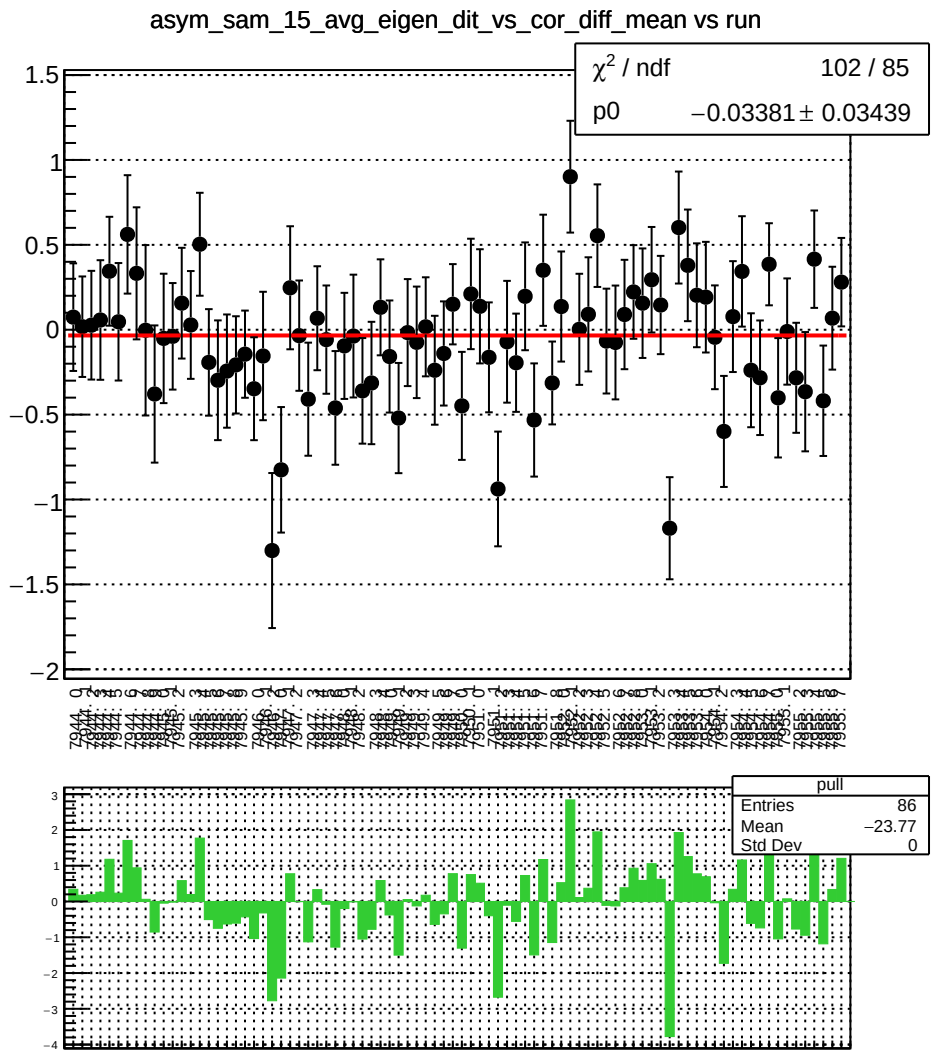

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 85
p0 −0.0338 ± 0.03439
pull
Entries 86
Mean −23.78
Std Dev 0

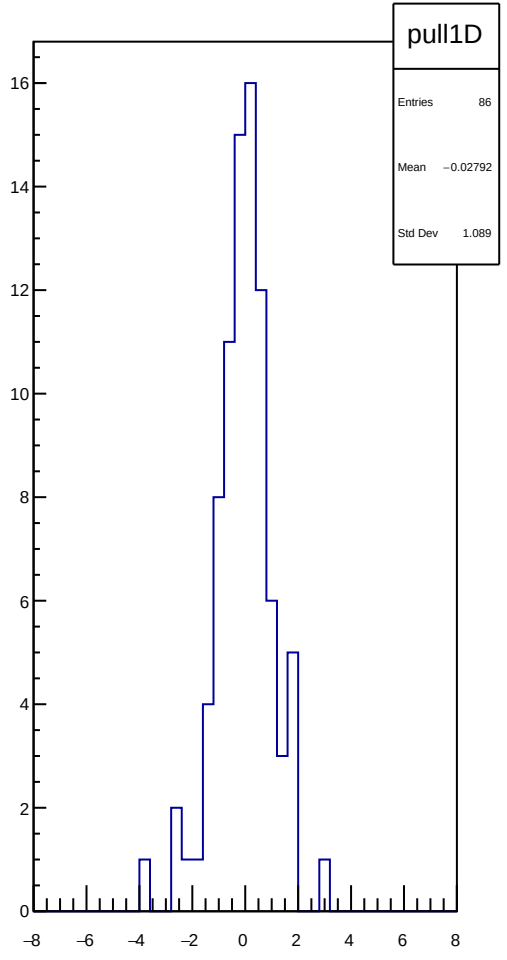

pull1D
Entries 86
Mean −0.02792
Std Dev 1.089

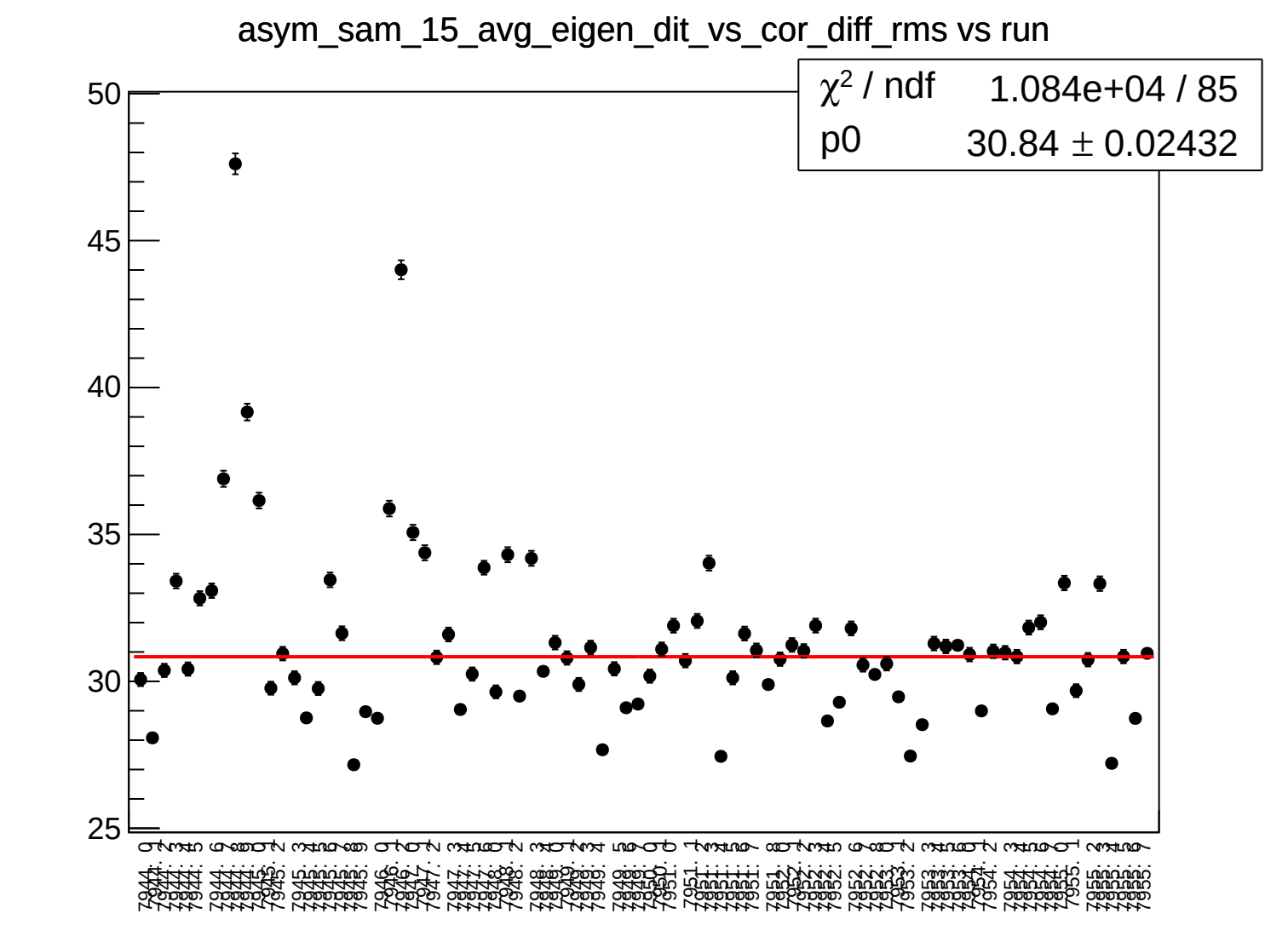

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.084e+04 / 85
p0 30.84 ± 0.02432
50
45
40
35
30
25

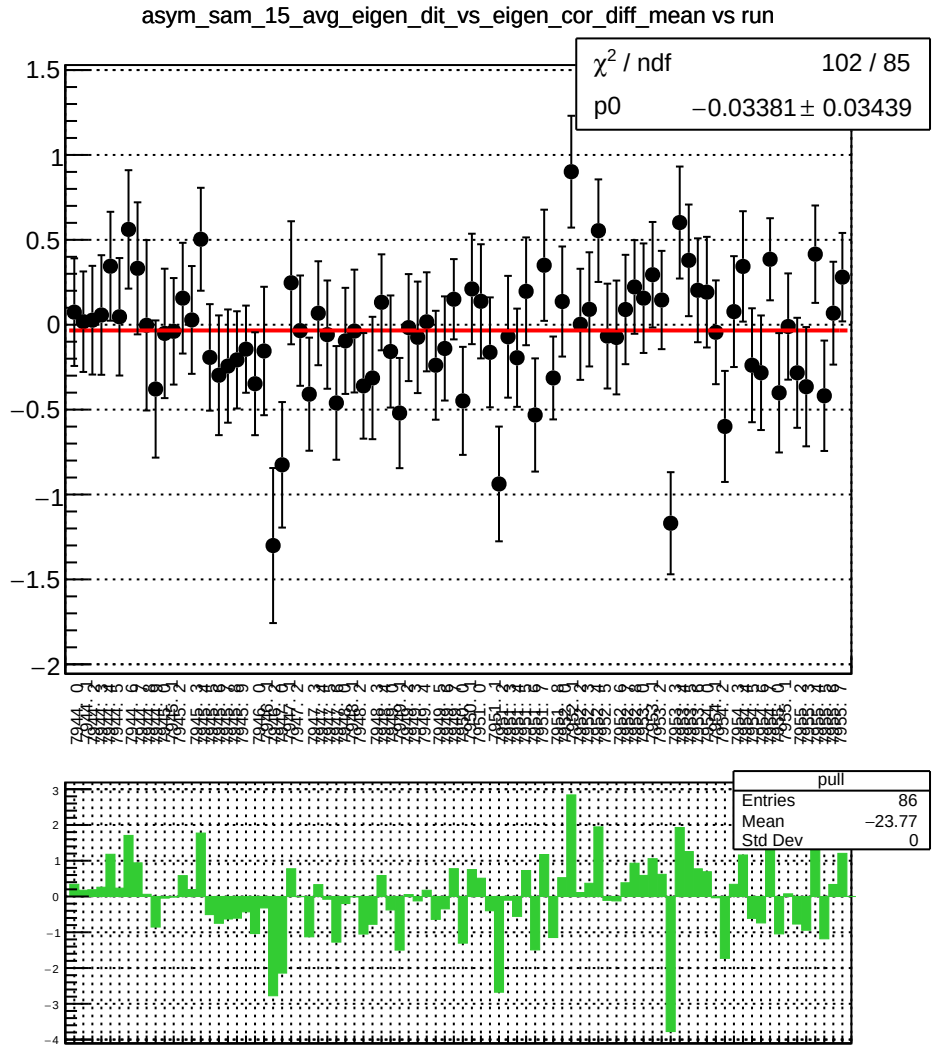

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.46 / 85
p0 −2.683e−06 ± 2.395e−06
pull
Entries 86
Mean 62.88
Std Dev 0
pull1D
Entries 86
Mean −0.01589
Std Dev 0.9967

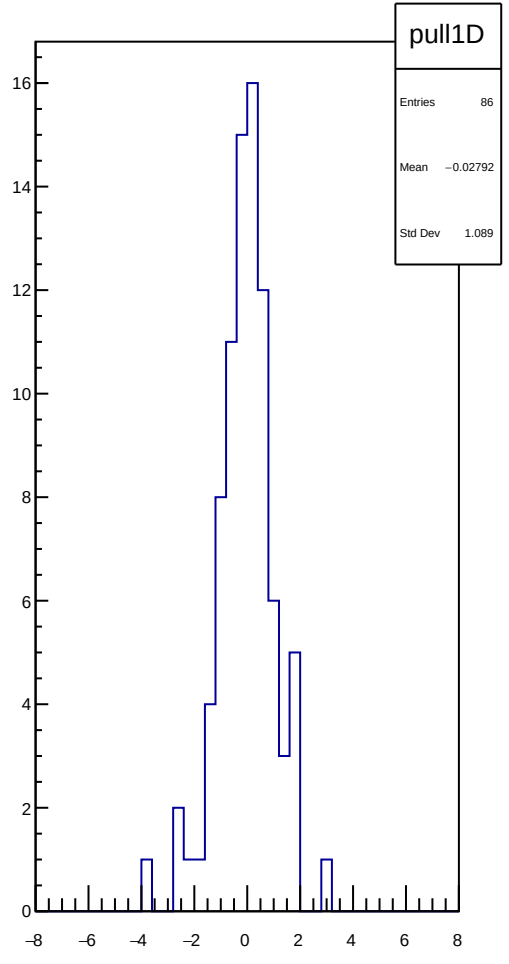

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.337e+04 / 85
p0 0.002146 ± 1.693e−06
0.0026
0.0024
0.0022
0.002
0.0018

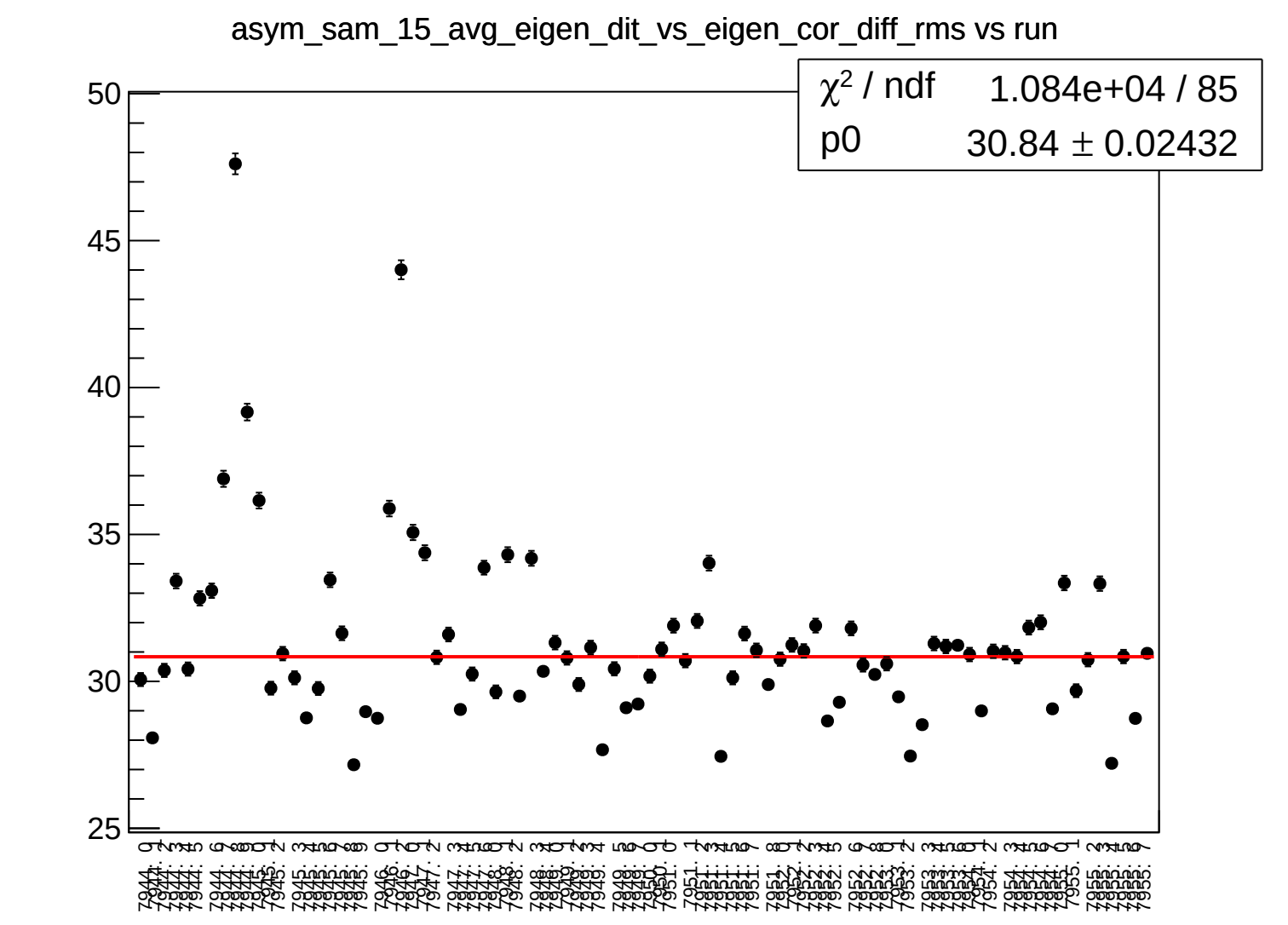

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 85
p0 −0.03381 ± 0.03439
pull
Entries 86
Mean −23.77
Std Dev 0

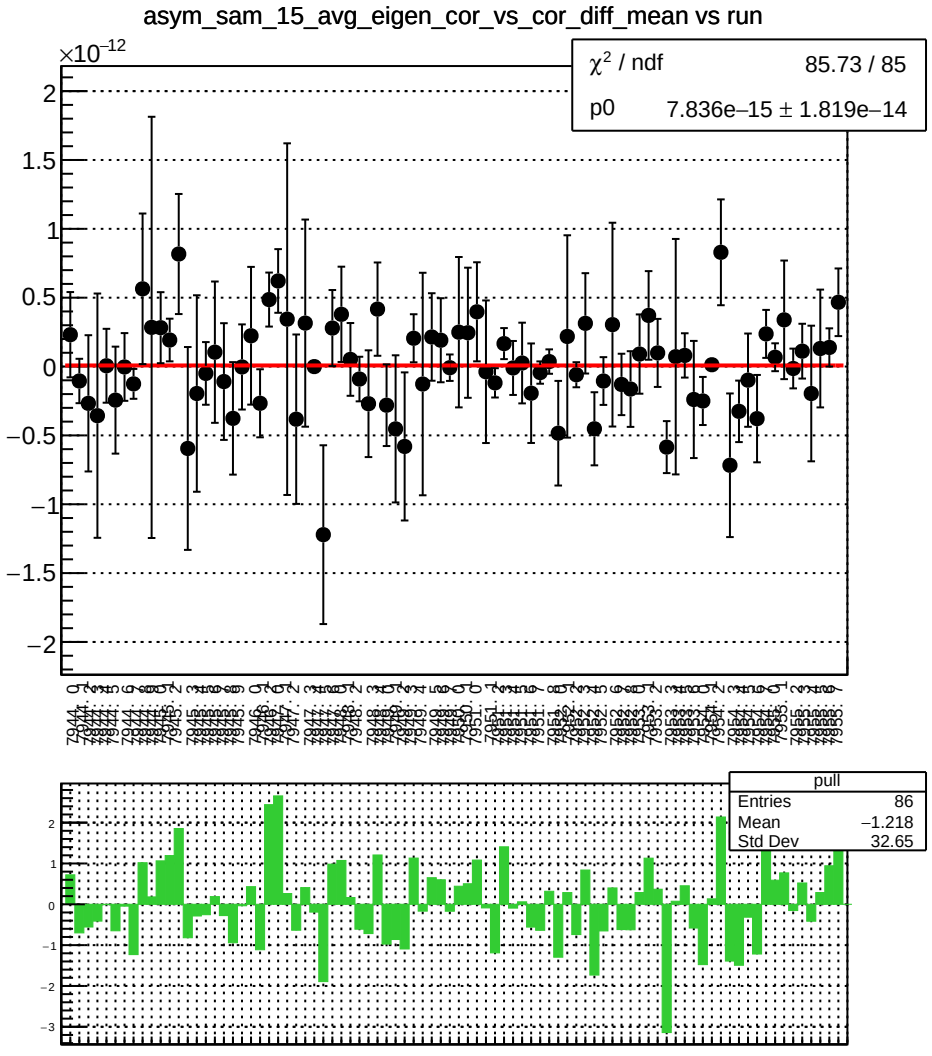

pull1D
Entries 86
Mean −0.02792
Std Dev 1.089

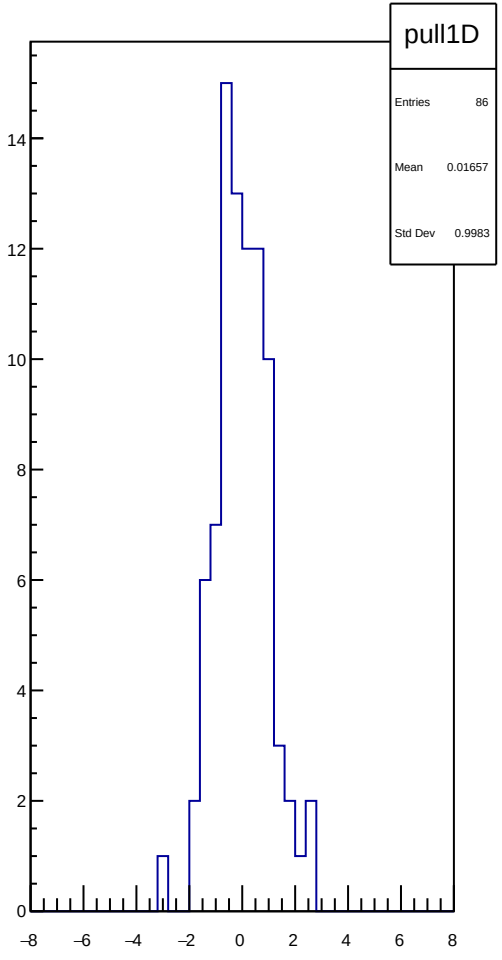

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.084e+04 / 85
p0 30.84 ± 0.02432
50
45
40
35
30
25

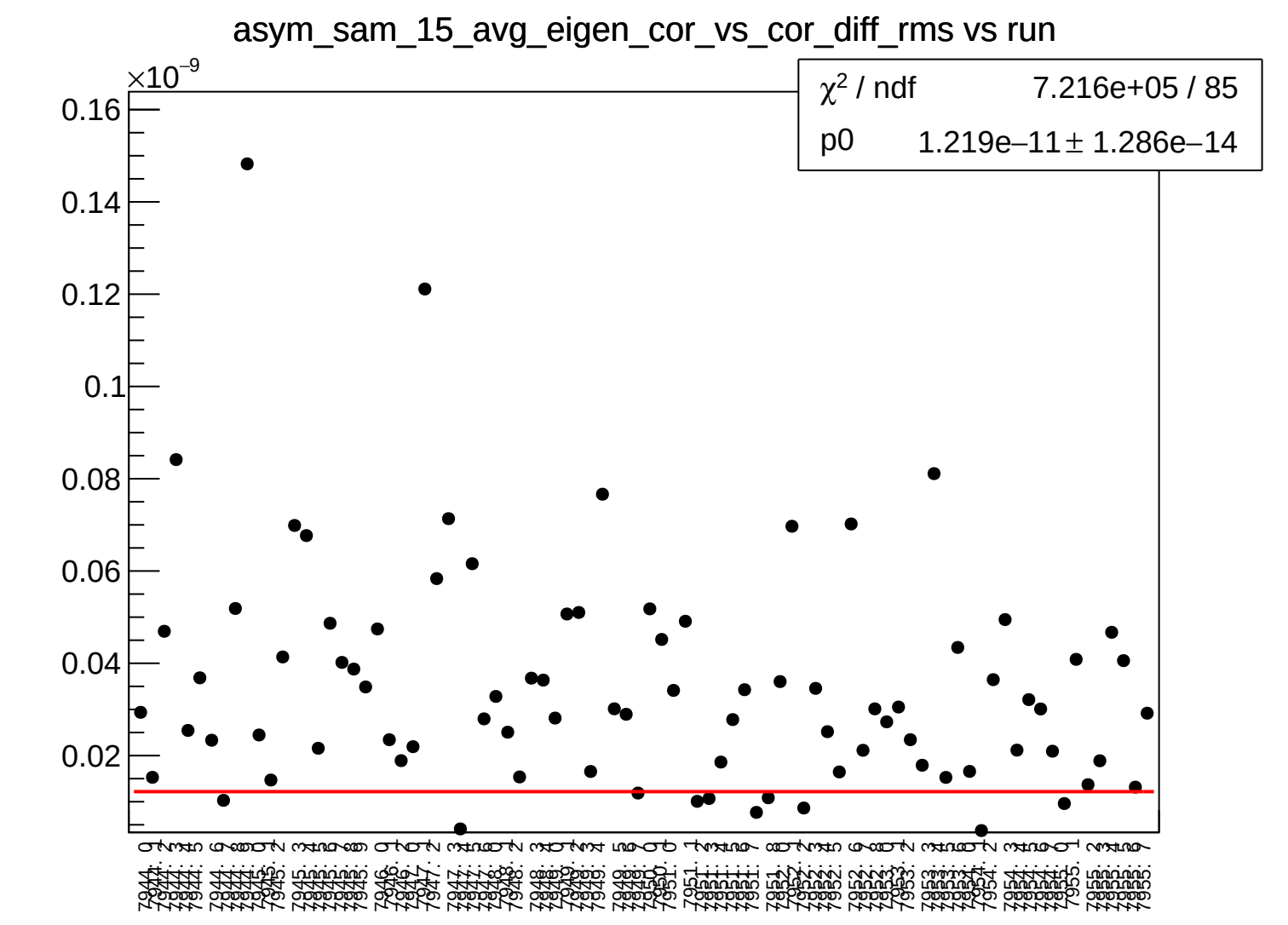

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 85
p0 −0.03381 ± 0.03439
pull
Entries 86
Mean −23.77
Std Dev 0

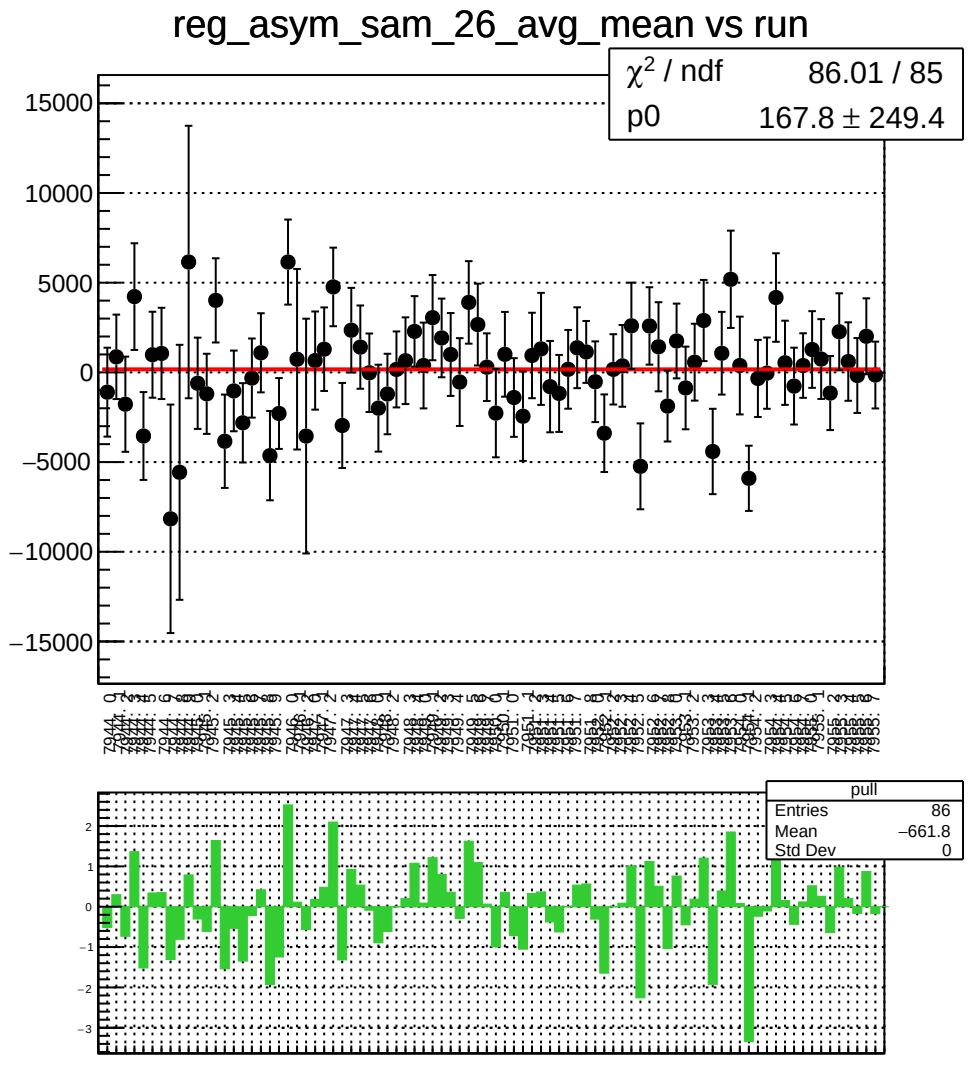

pull1D
Entries 86
Mean −0.02792
Std Dev 1.089

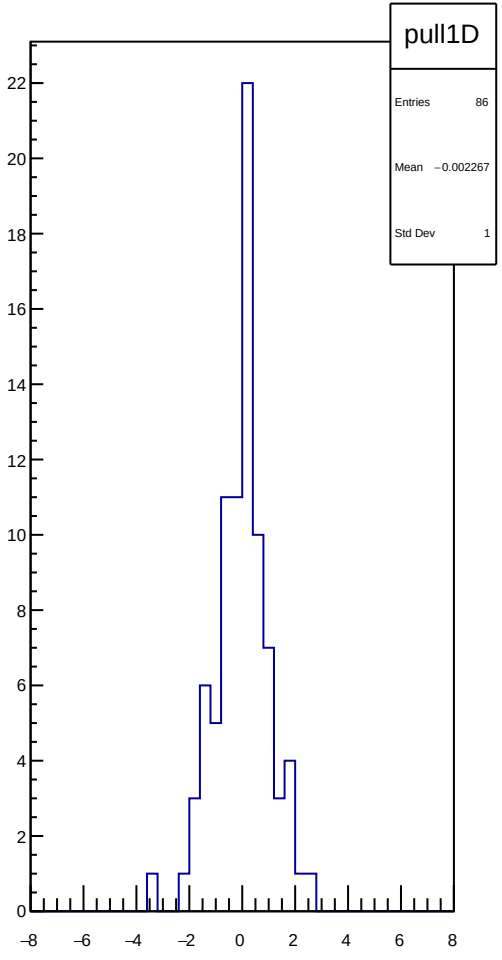

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.084e+04 / 85
p0 30.84 ± 0.02432
50
45
40
35
30
25

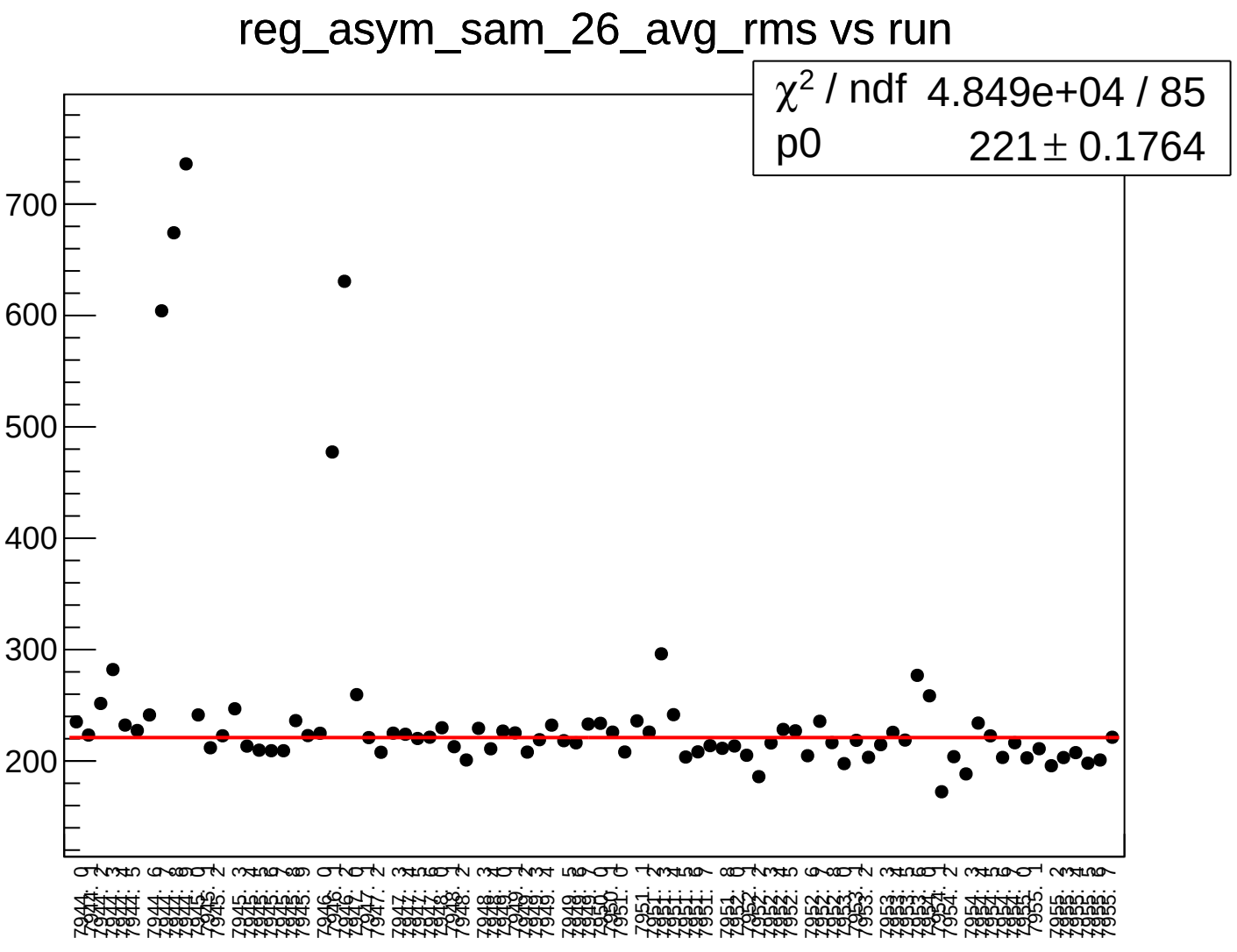

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 85.73 / 85
p0 7.836e−15 ± 1.819e−14
pull
Entries 86
Mean −1.218
Std Dev 32.65

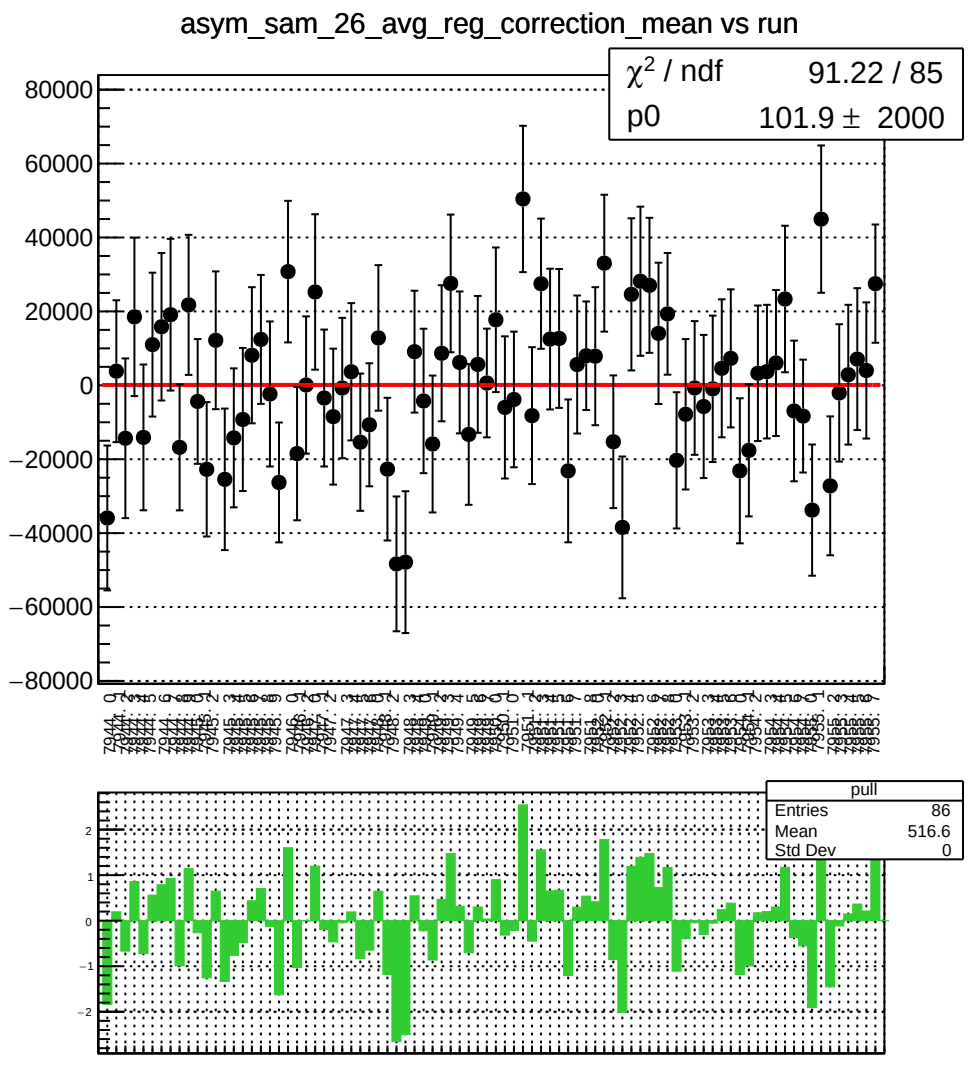

pull1D
Entries 86
Mean 0.01657
Std Dev 0.9983

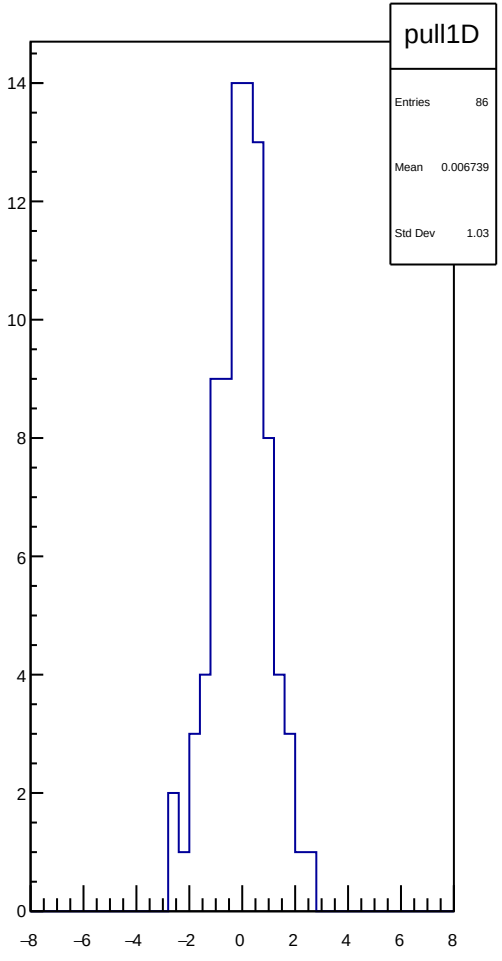

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.216e+05 / 85
p0 1.219e−11 ± 1.286e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

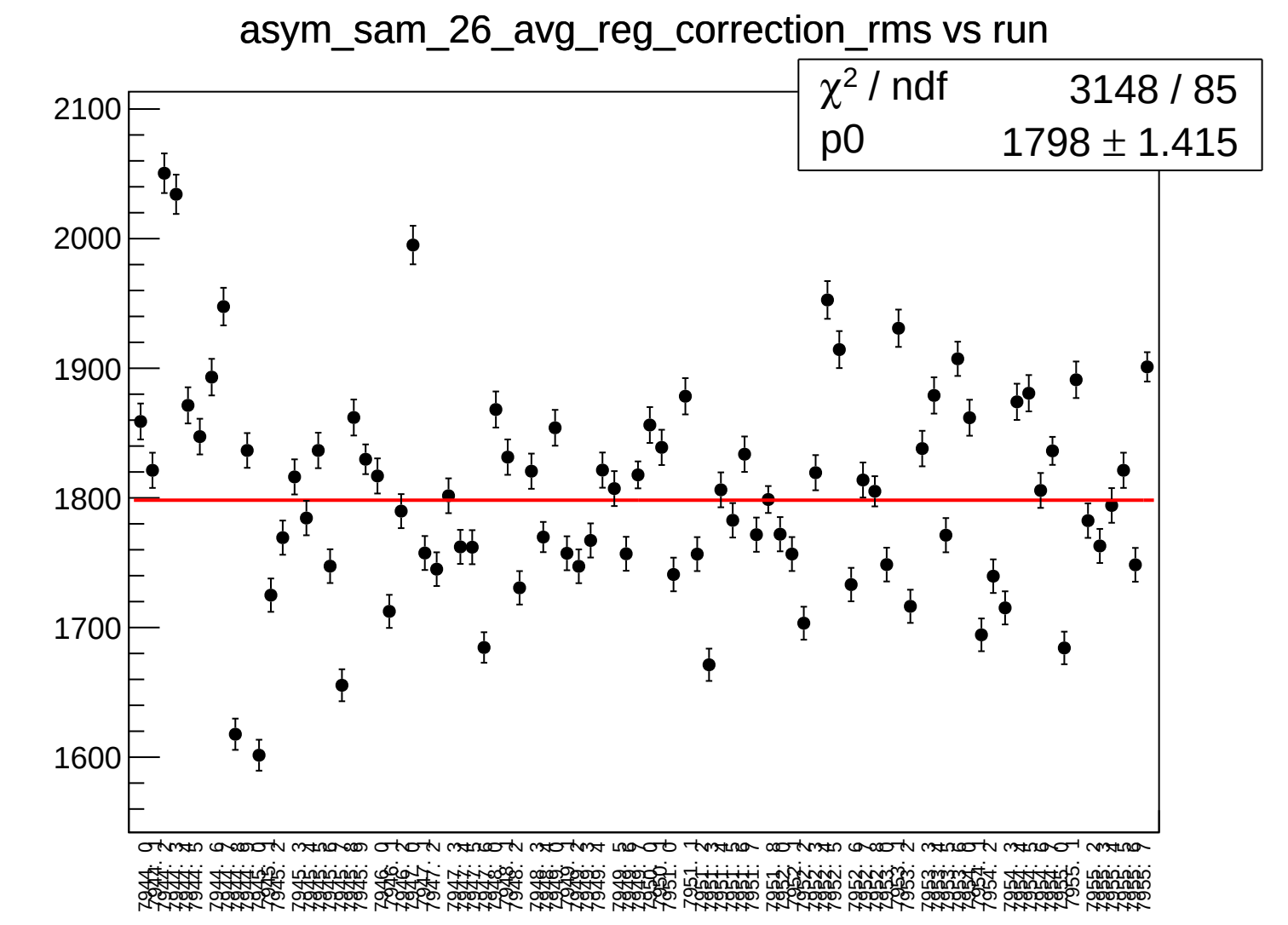

reg_asym_sam_26_avg_mean vs run
χ² / ndf 86.01 / 85
p0 167.8 ± 249.4
pull
Entries 86
Mean −661.8
Std Dev 0

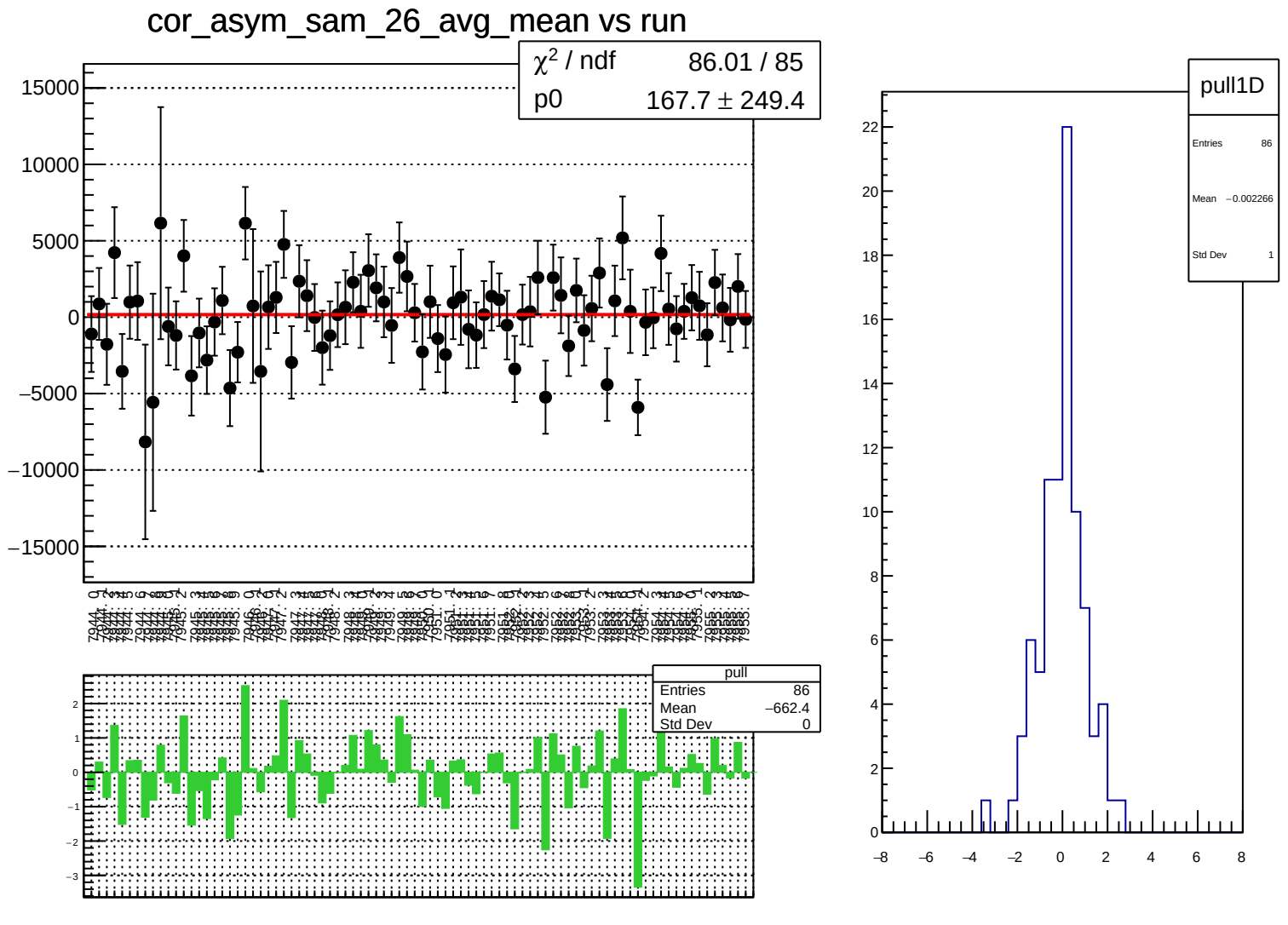

pull1D
Entries 86
Mean −0.002267
Std Dev 1

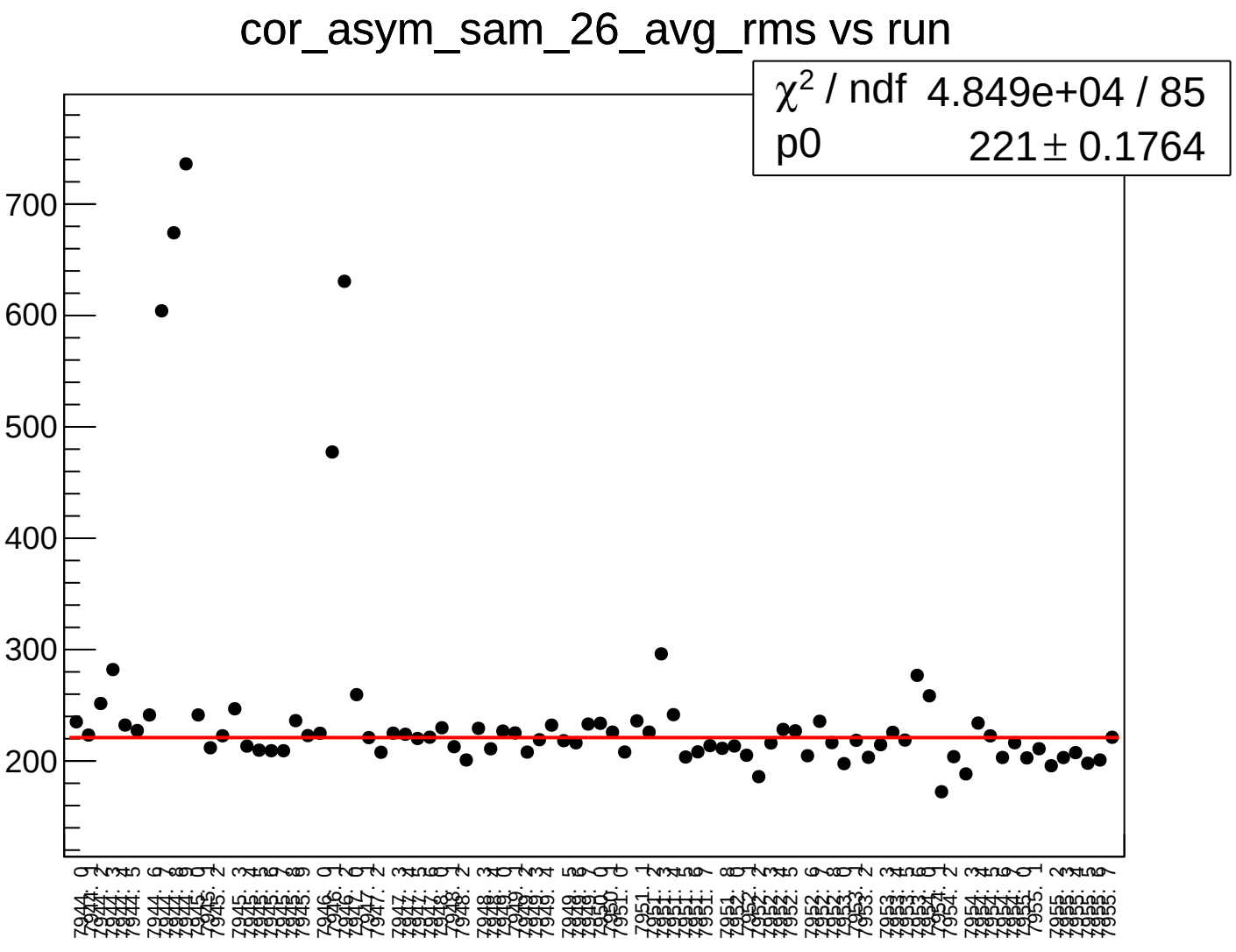

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 4.849e+04 / 85
p0 221 ± 0.1764
700
600
500
400
300
200

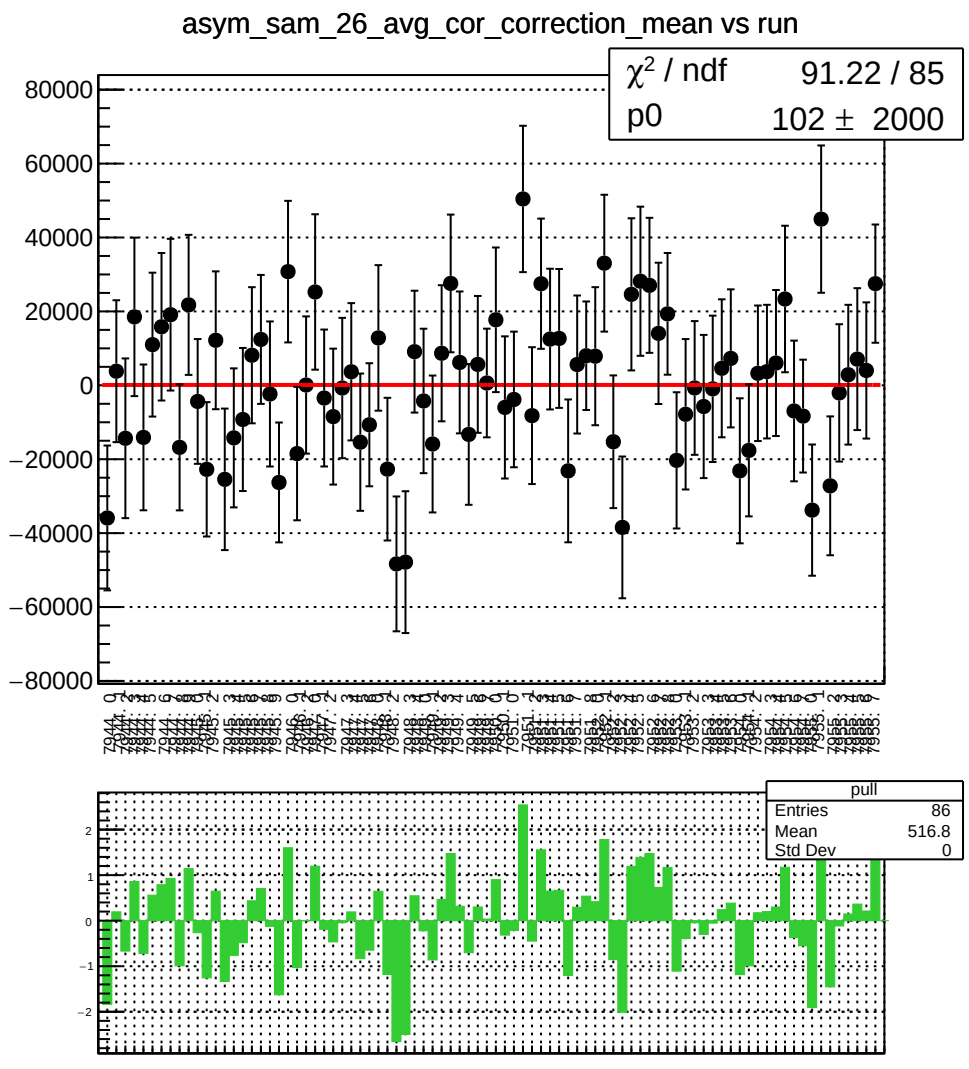

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 91.22 / 85
p0 101.9 ± 2000
pull
Entries 86
Mean 516.6
Std Dev 0

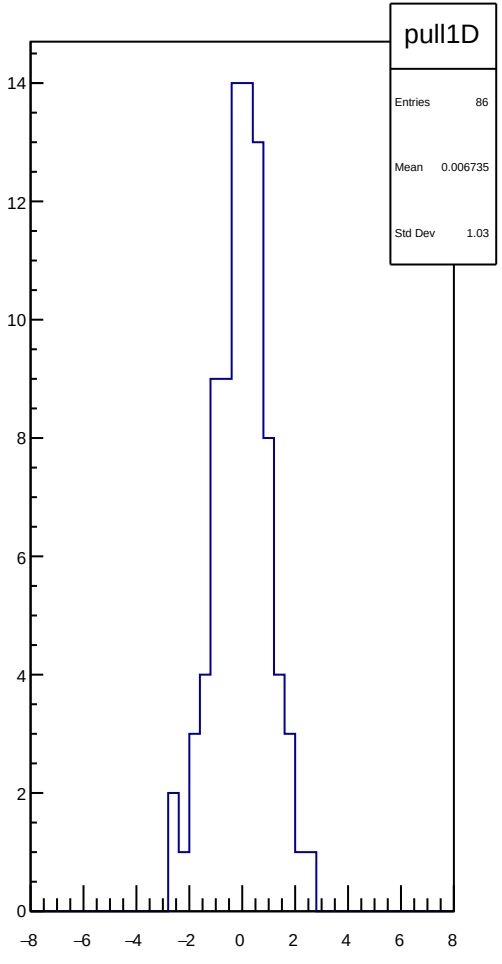

pull1D
Entries 86
Mean 0.006739
Std Dev 1.03

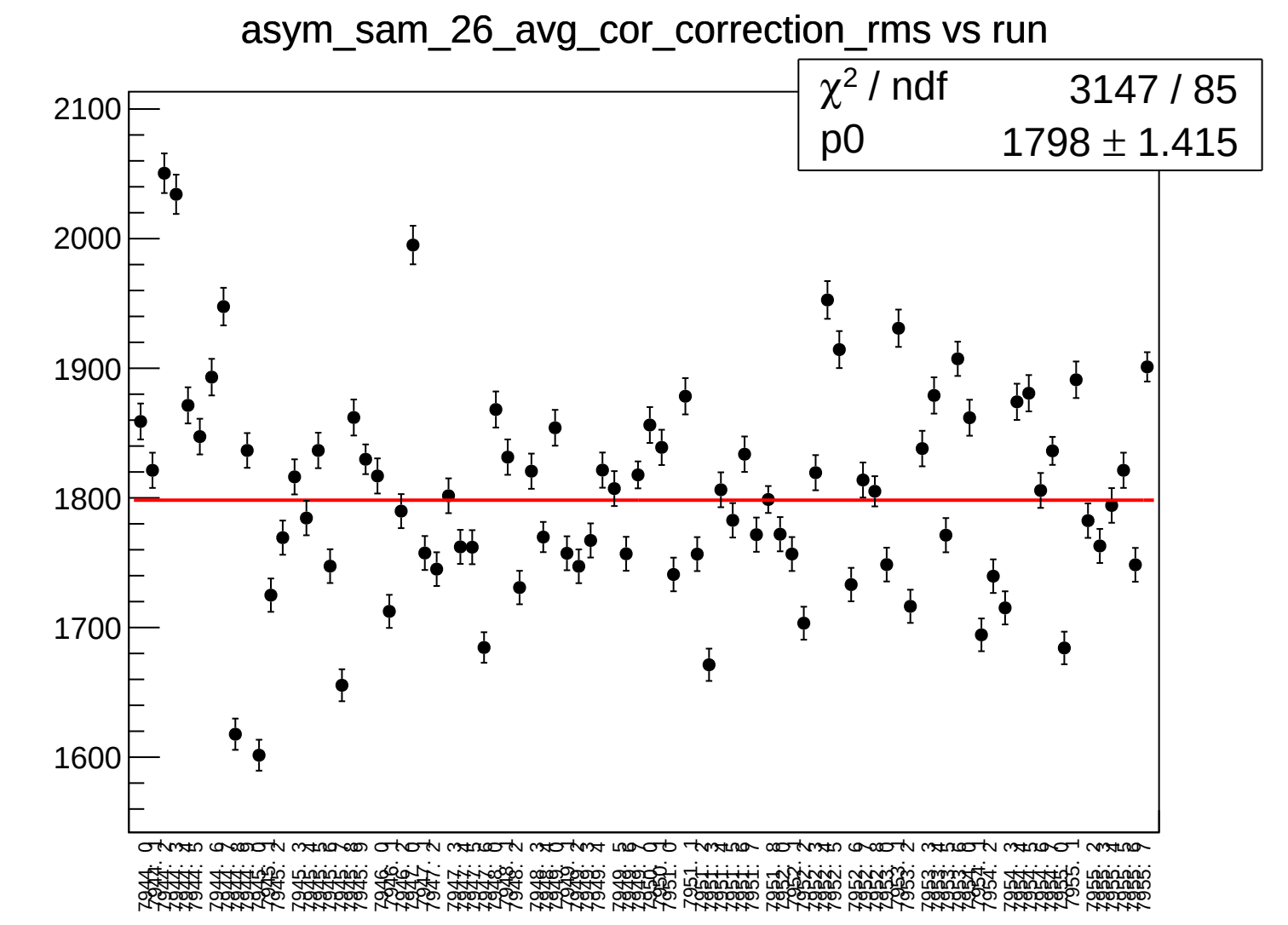

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 3148 / 85
p0 1798 ± 1.415
2100
2000
1900
1800
1700
1600

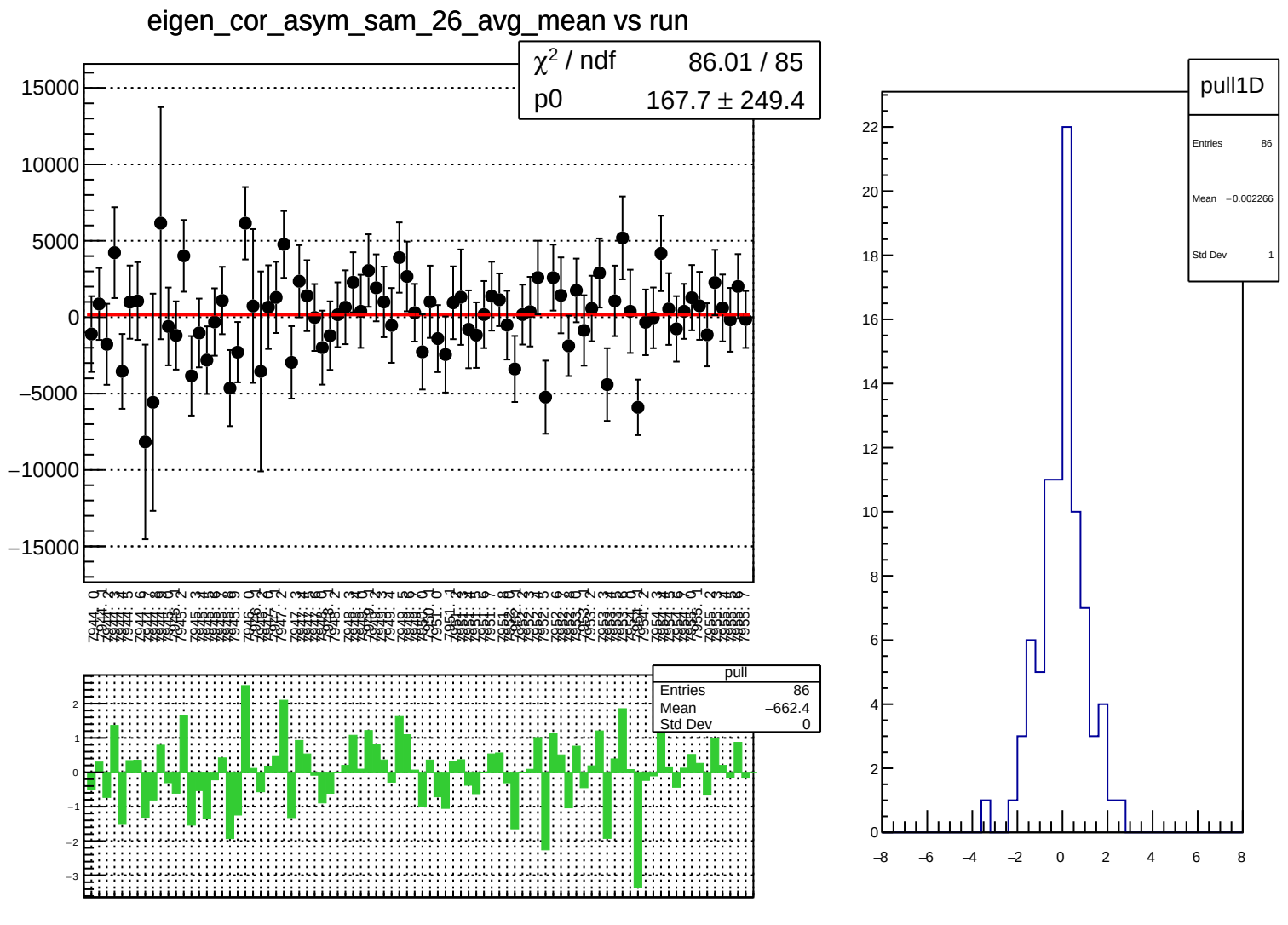

cor_asym_sam_26_avg_mean vs run
χ² / ndf 86.01 / 85
p0 167.7 ± 249.4
pull
Entries 86
Mean −662.4
Std Dev 0
pull1D
Entries 86
Mean −0.002266
Std Dev 1

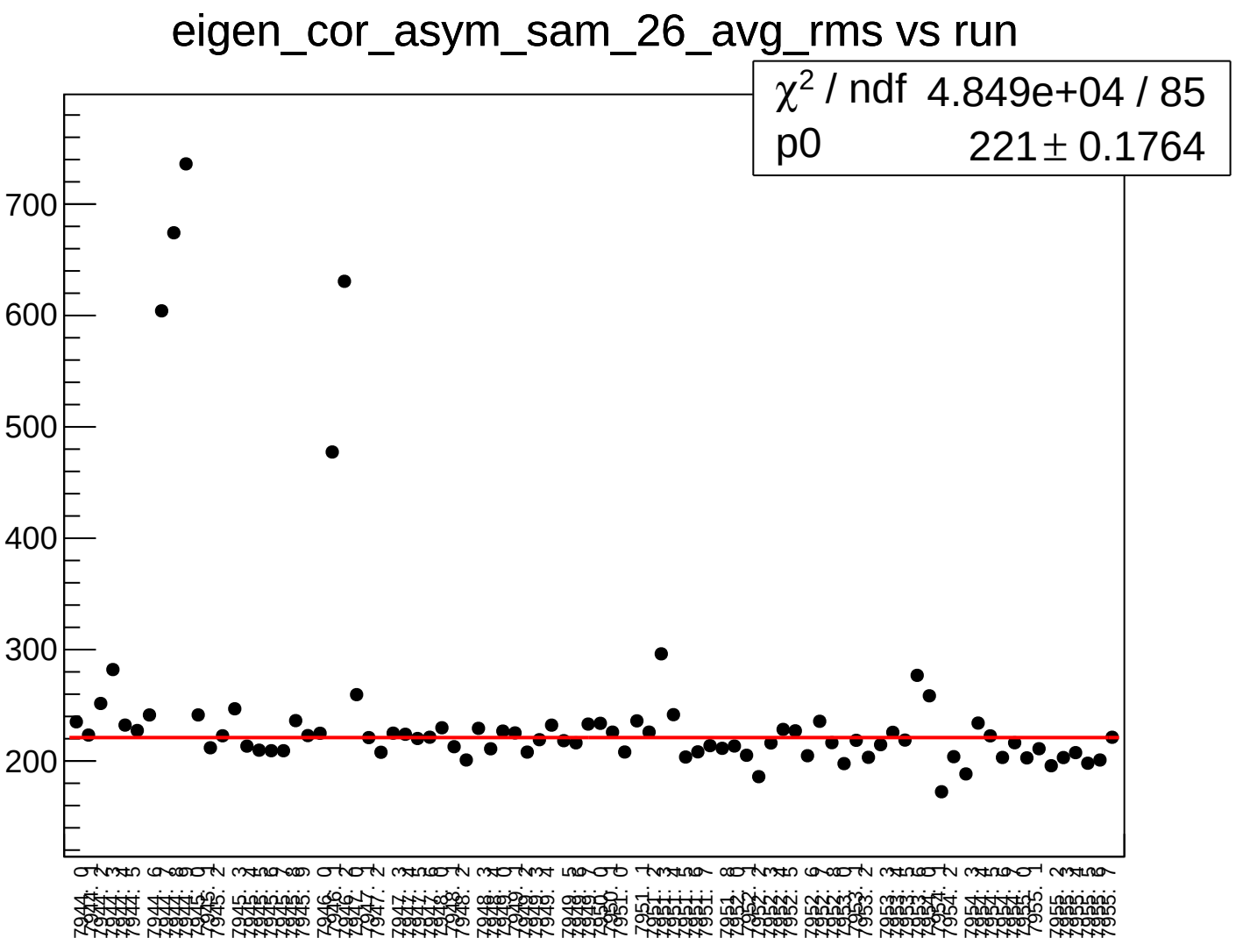

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 4.849e+04 / 85
p0 221 ± 0.1764
700
600
500
400
300
200

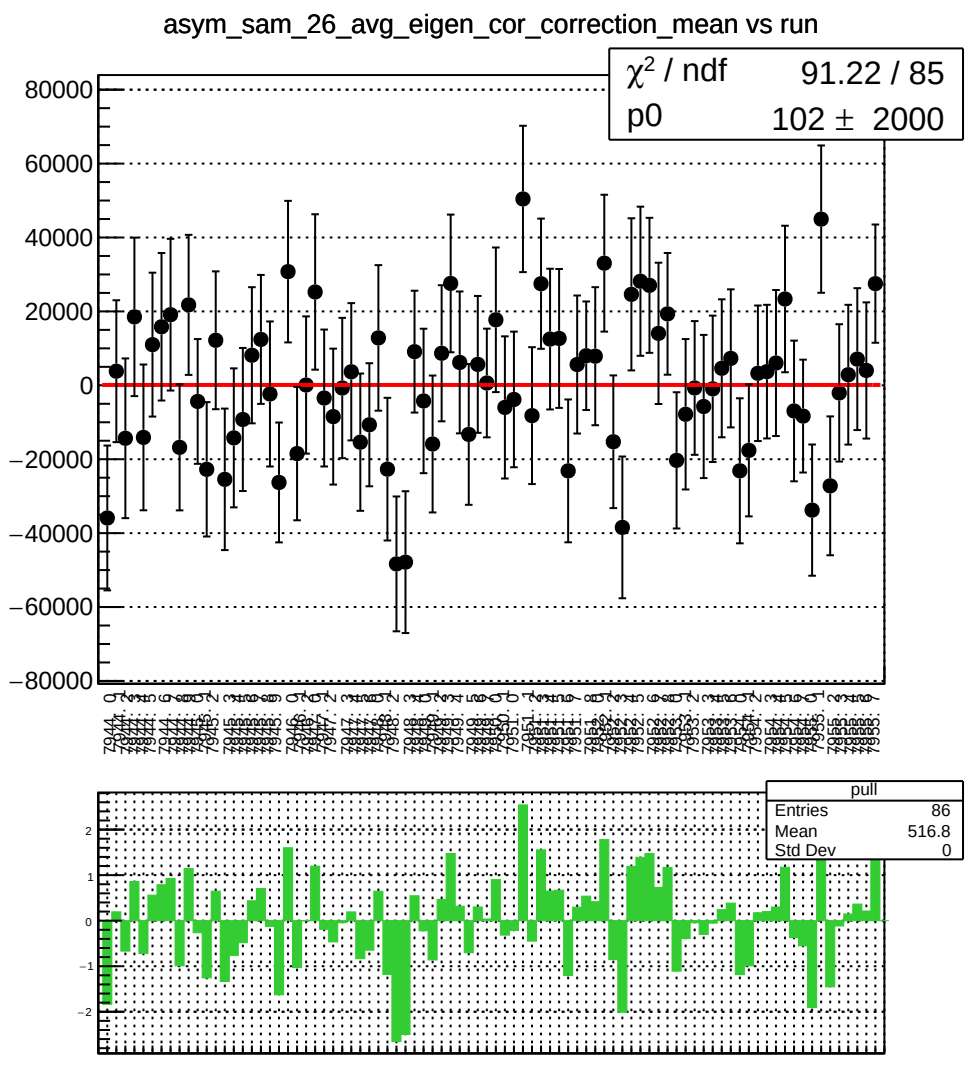

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 91.22 / 85
p0 102 ± 2000
pull
Entries 86
Mean 516.8
Std Dev 0

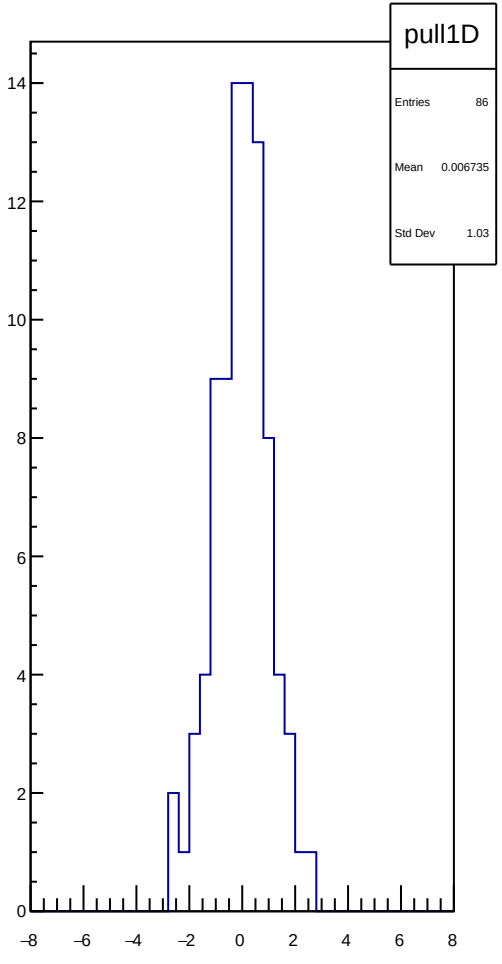

pull1D
Entries 86
Mean 0.006735
Std Dev 1.03

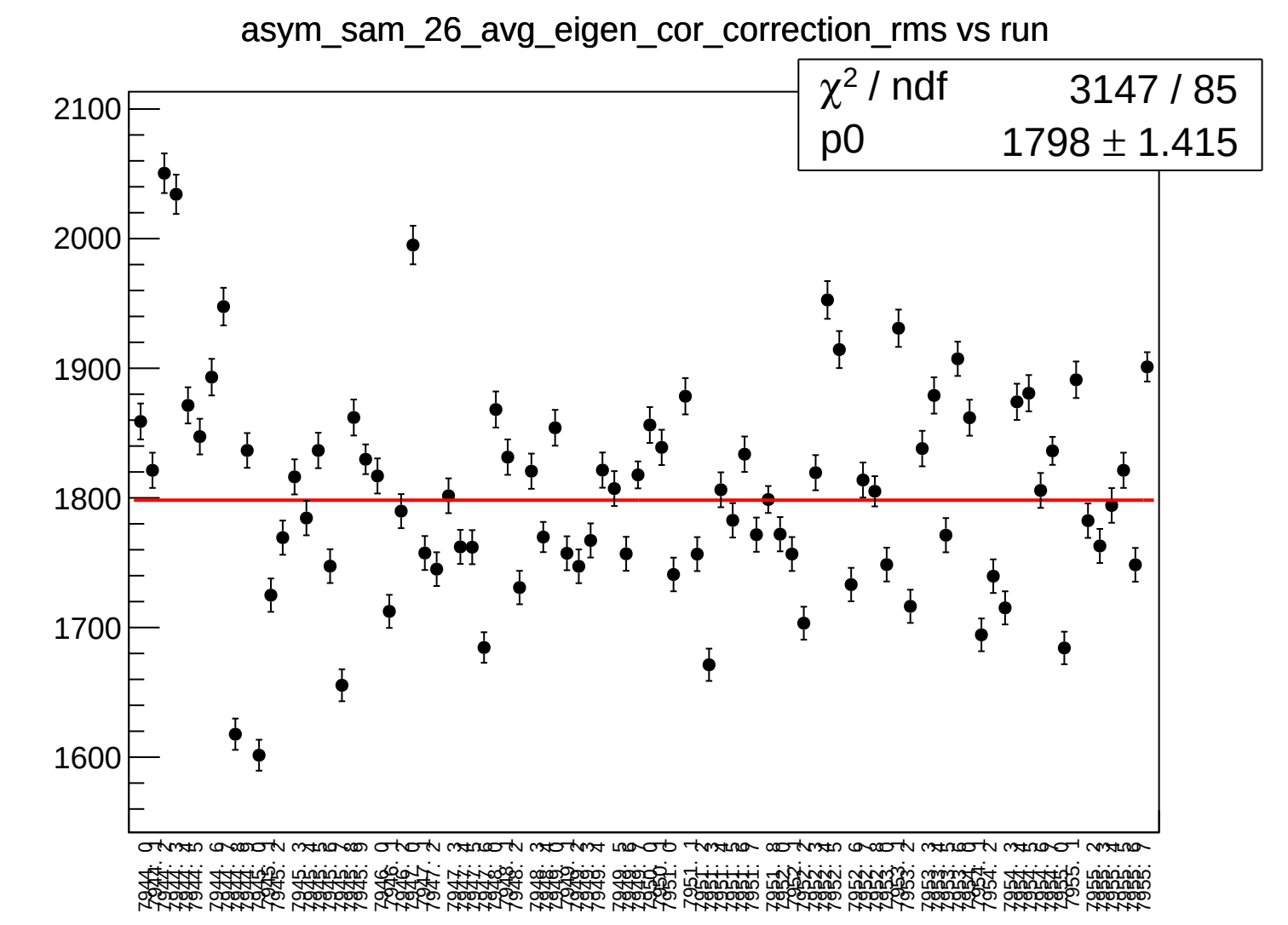

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 3147 / 85
p0 1798 ± 1.415
2100
2000
1900
1800
1700
1600

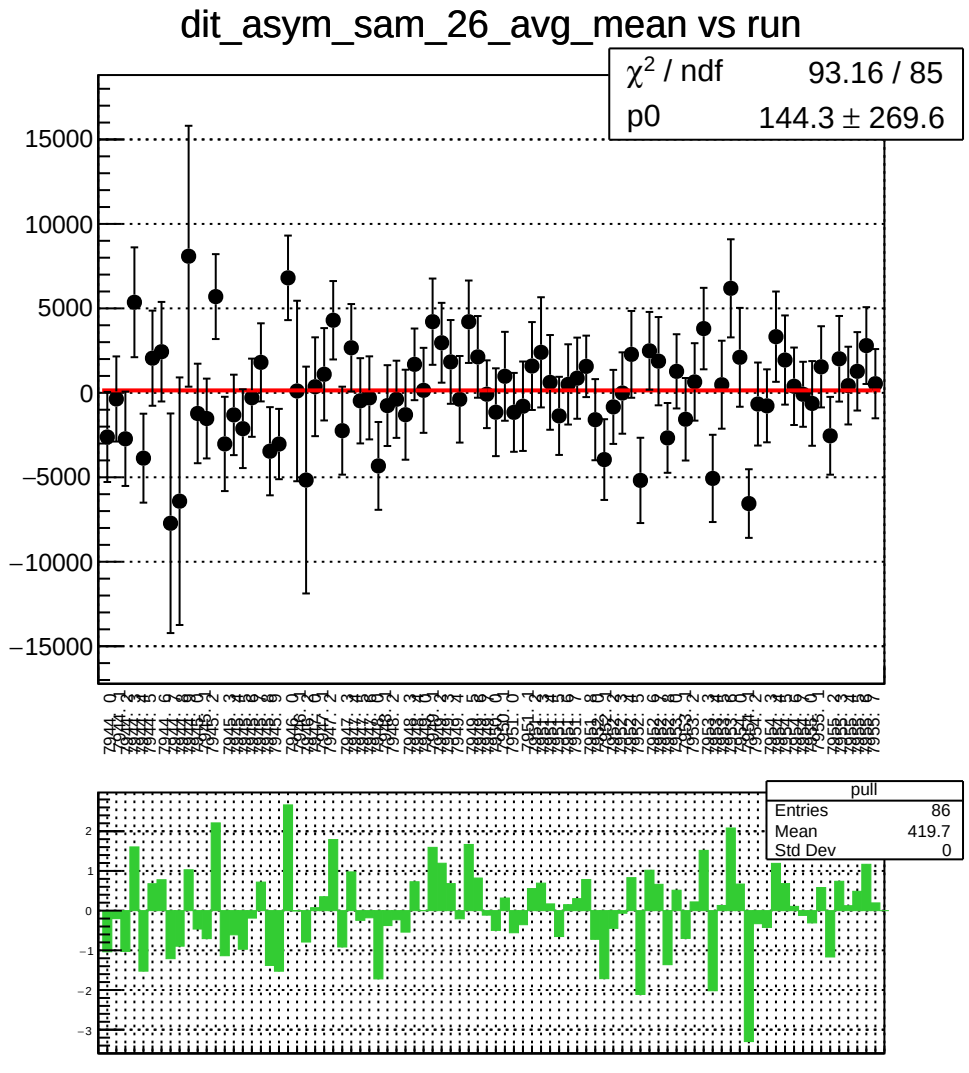

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 86.01 / 85
p0 167.7 ± 249.4
pull
Entries 86
Mean −662.4
Std Dev 0
pull1D
Entries 86
Mean −0.002266
Std Dev 1

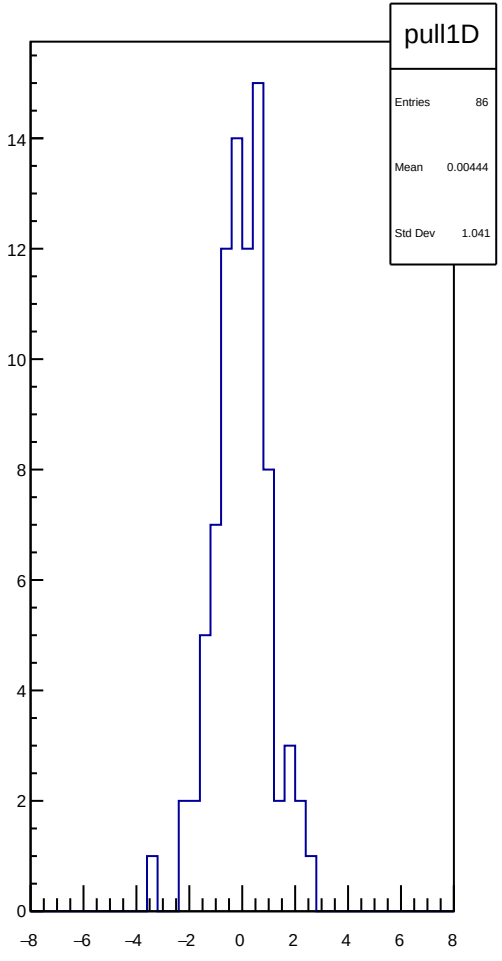

eigen_cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 4.849e+04 / 85
p0 221 ± 0.1764
700
600
500
400
300
200

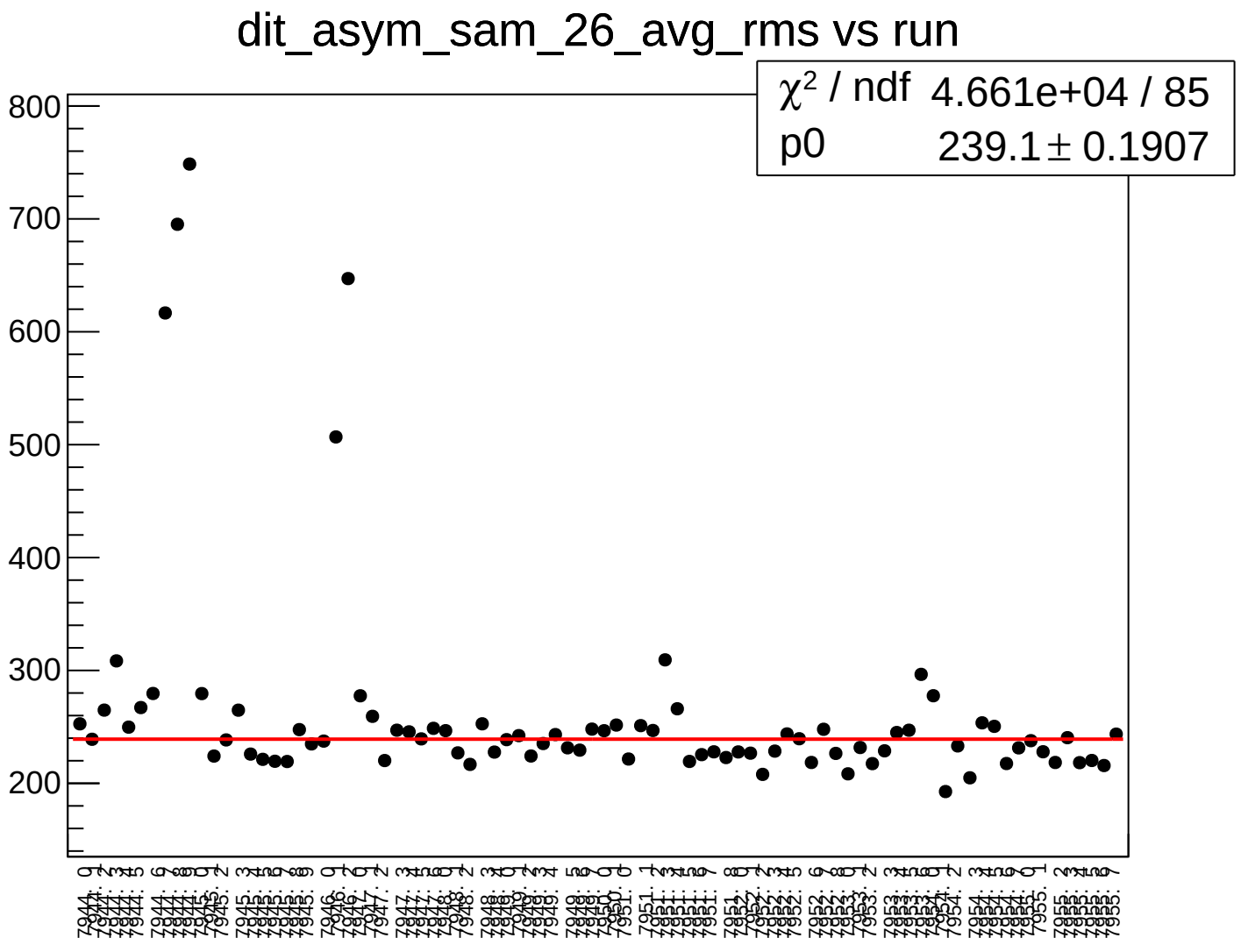

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.22 / 85
p0 102 ± 2000
pull
Entries 86
Mean 516.8
Std Dev 0

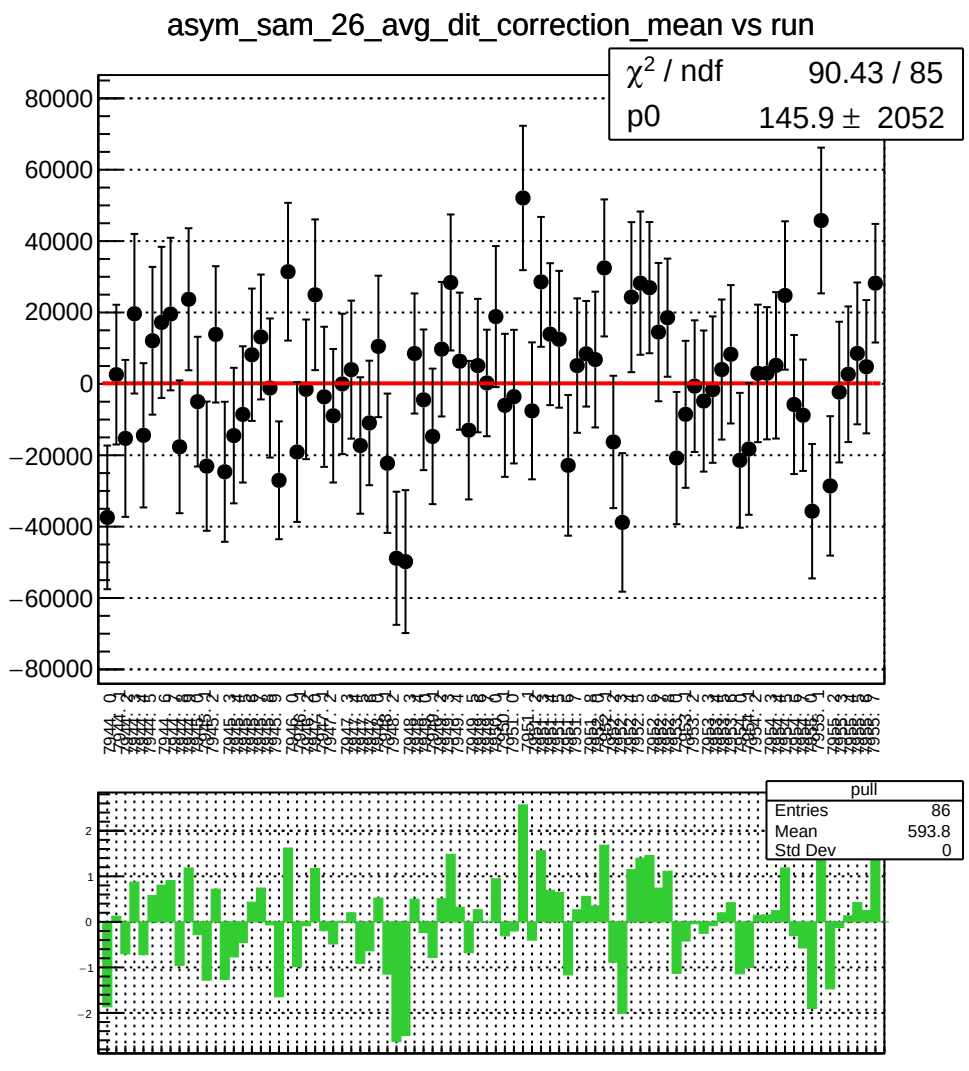

pull1D
Entries 86
Mean 0.006735
Std Dev 1.03

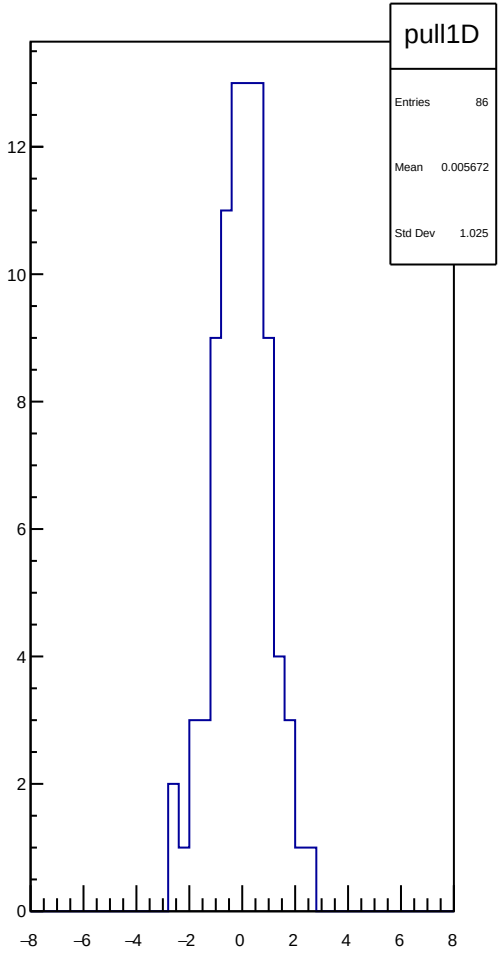

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 3147 / 85
p0 1798 ± 1.415
2100
2000
1900
1800
1700
1600

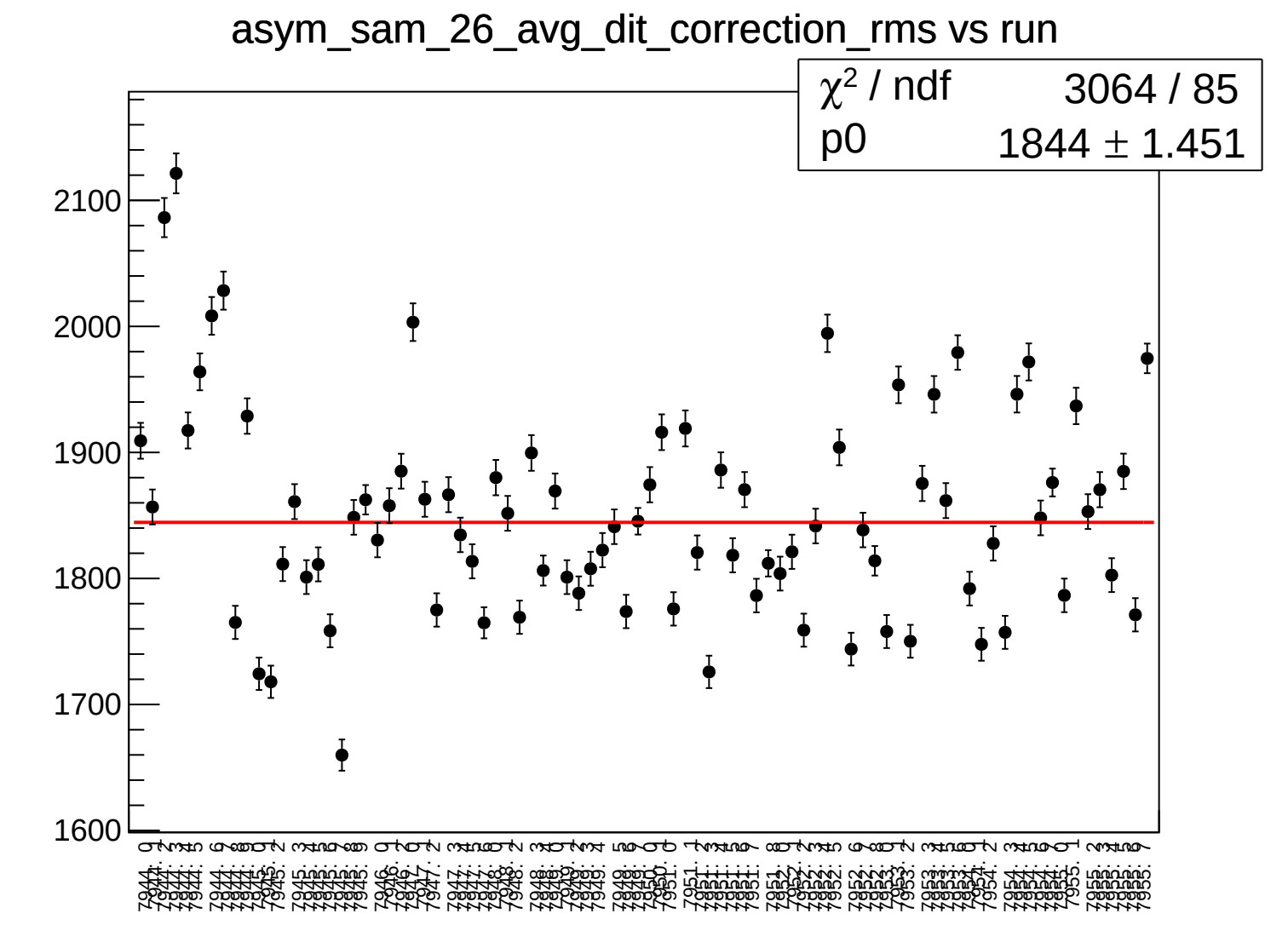

dit_asym_sam_26_avg_mean vs run
χ² / ndf 93.16 / 85
p0 144.3 ± 269.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 419.7
Std Dev 0
2
1
0
−1
−2
−3

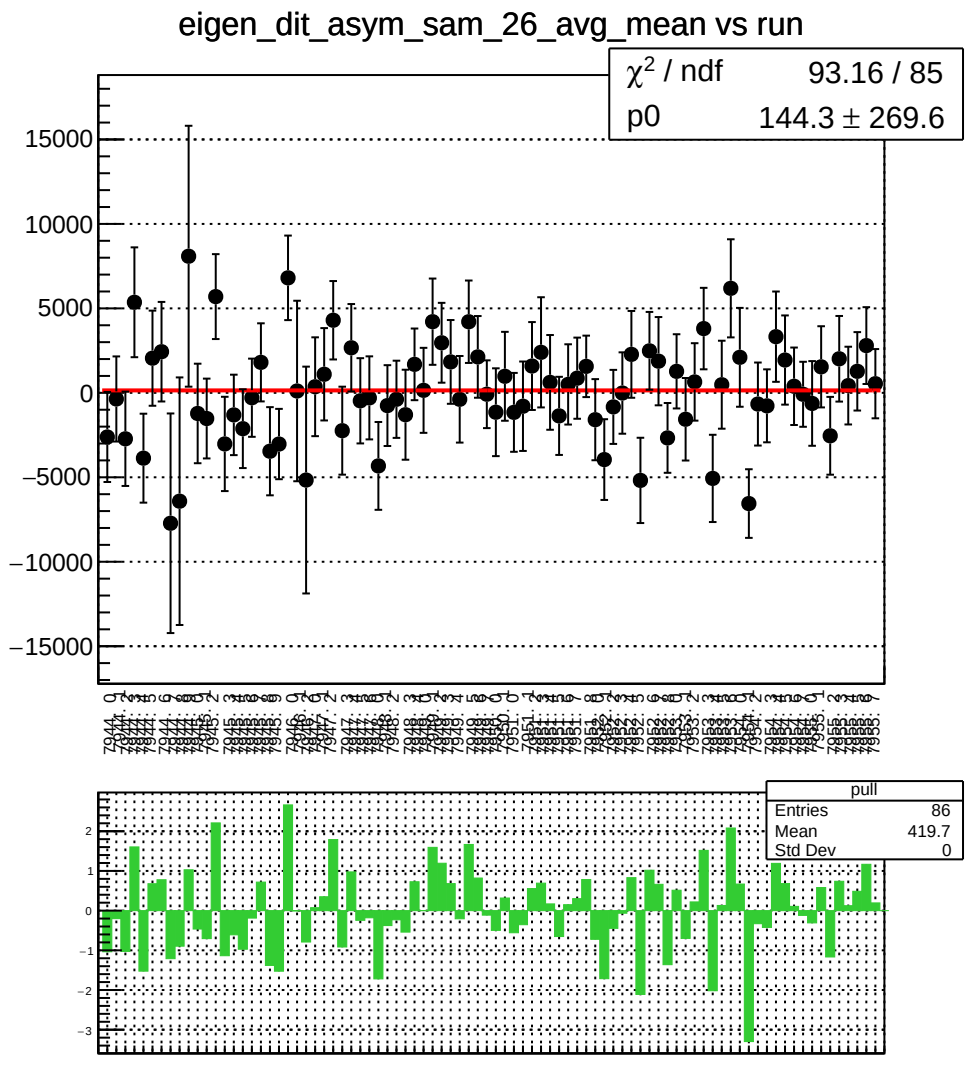

pull1D
Entries 86
Mean 0.00444
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

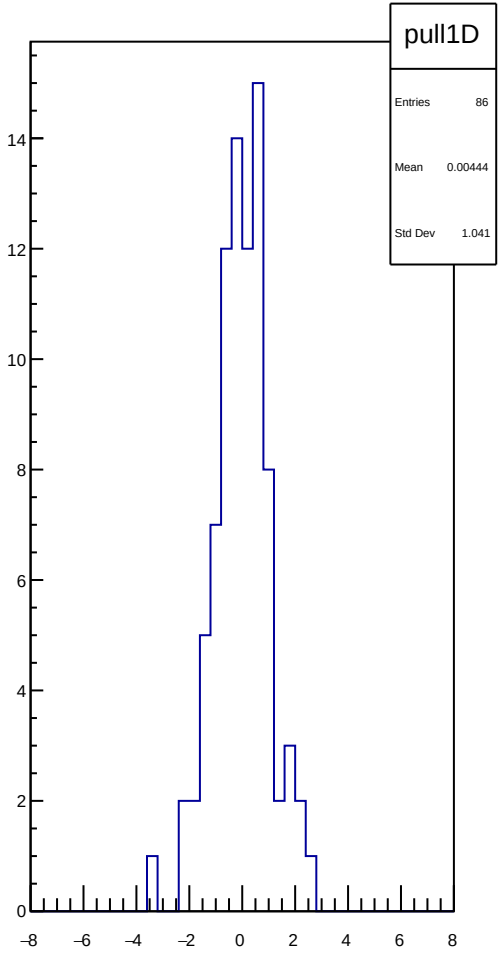

dit_asym_sam_26_avg_rms vs run
χ² / ndf 4.661e+04 / 85
p0 239.1 ± 0.1907
800
700
600
500
400
300
200

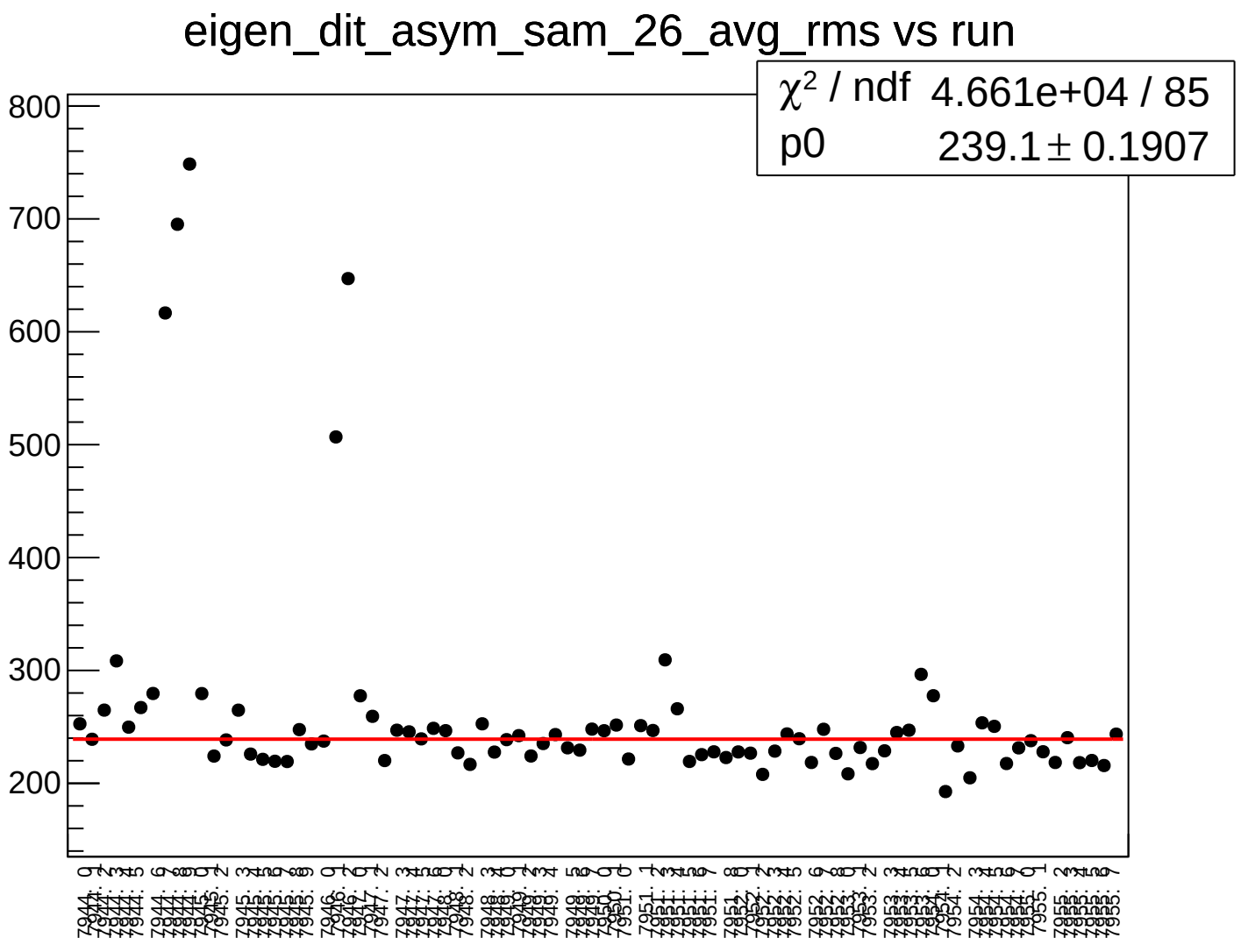

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 90.43 / 85
p0 145.9 ± 2052
pull
Entries 86
Mean 593.8
Std Dev 0

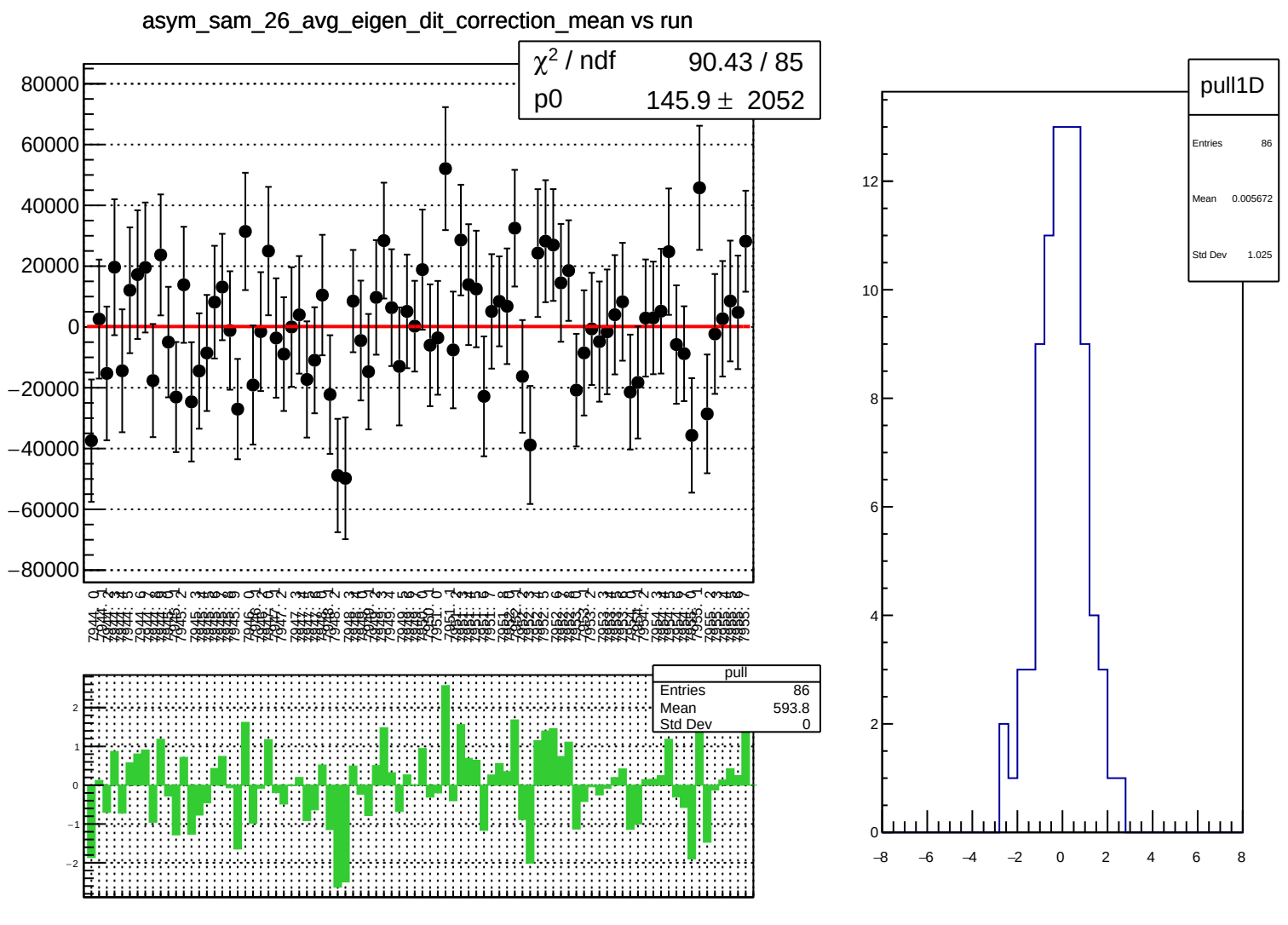

pull1D
Entries 86
Mean 0.005672
Std Dev 1.025

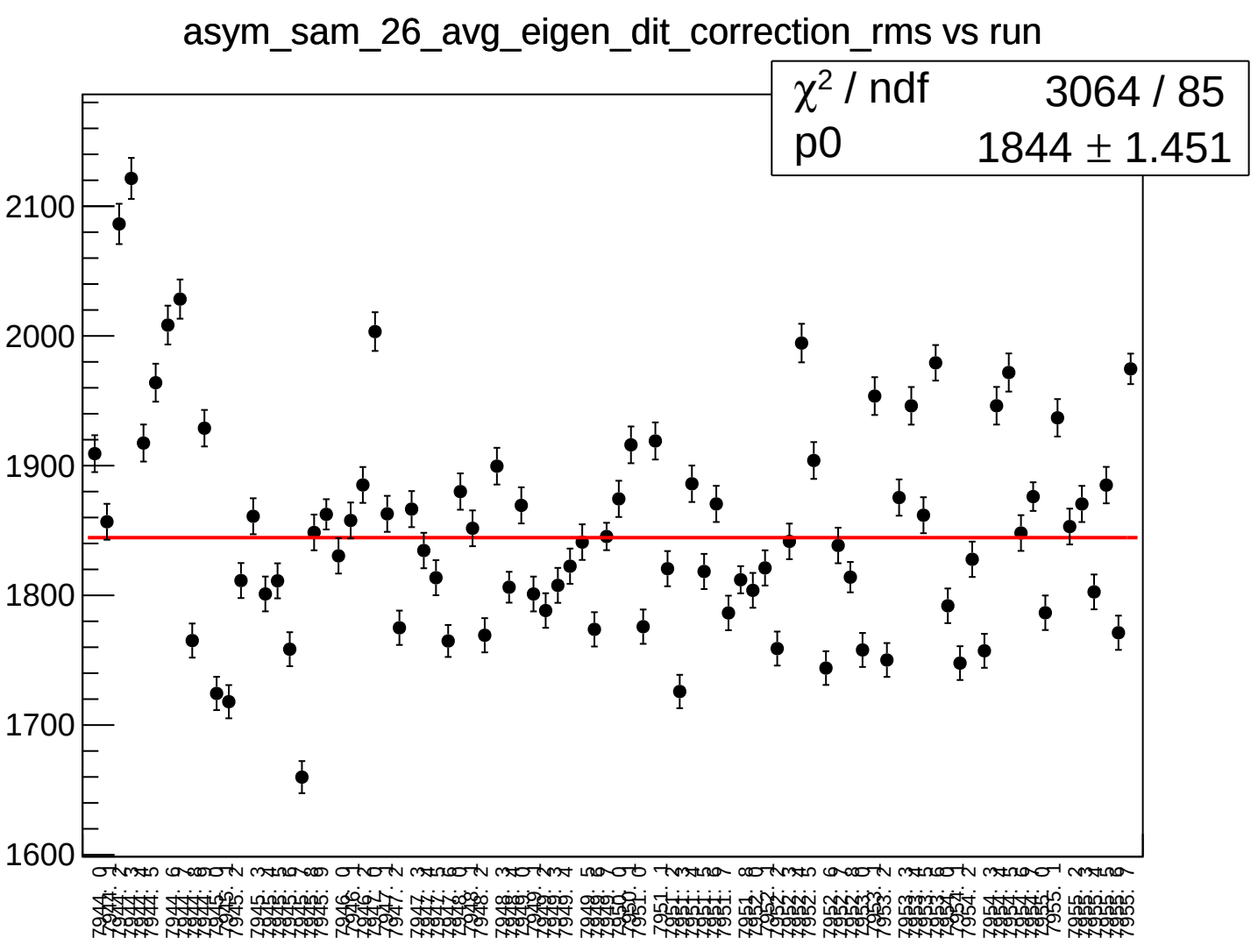

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 3064 / 85
p0 1844 ± 1.451
2100
2000
1900
1800
1700
1600

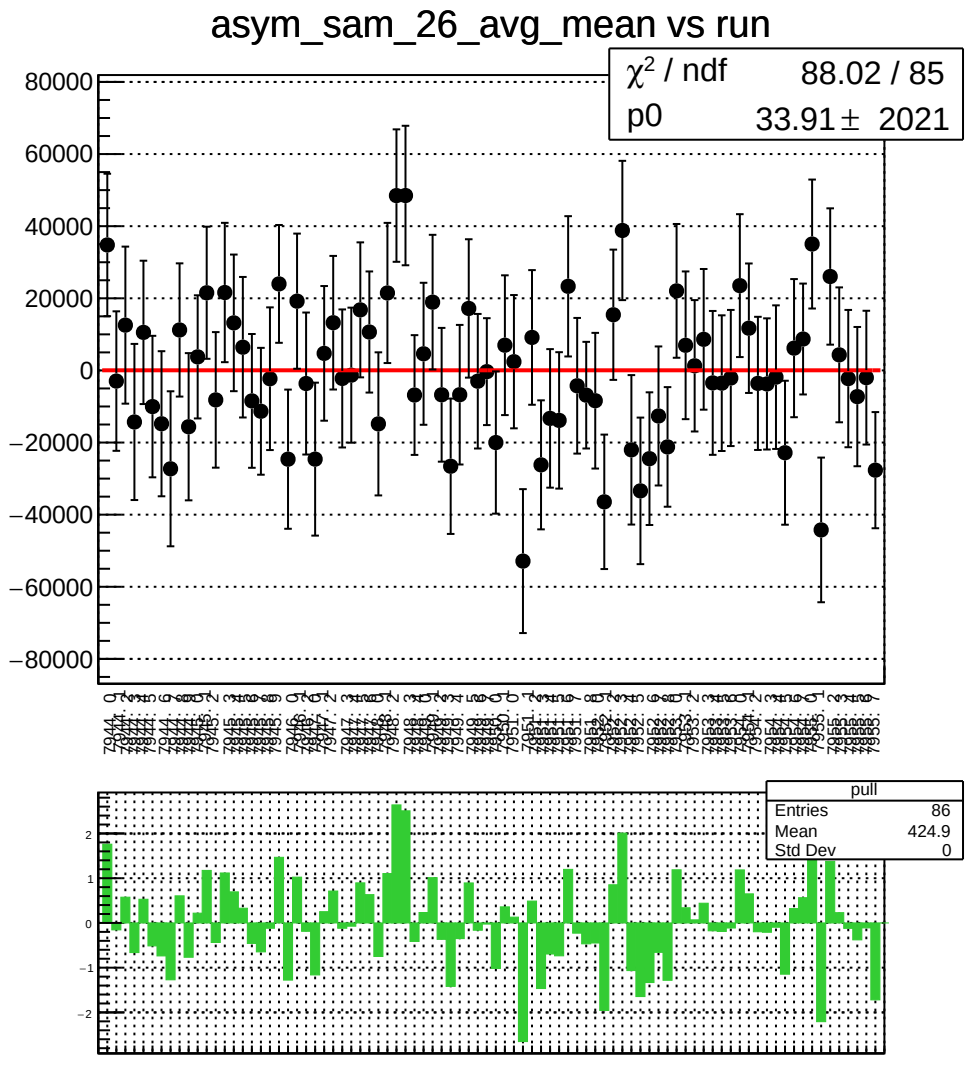

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 93.16 / 85
p0 144.3 ± 269.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 419.7
Std Dev 0
2
1
0
−1
−2
−3

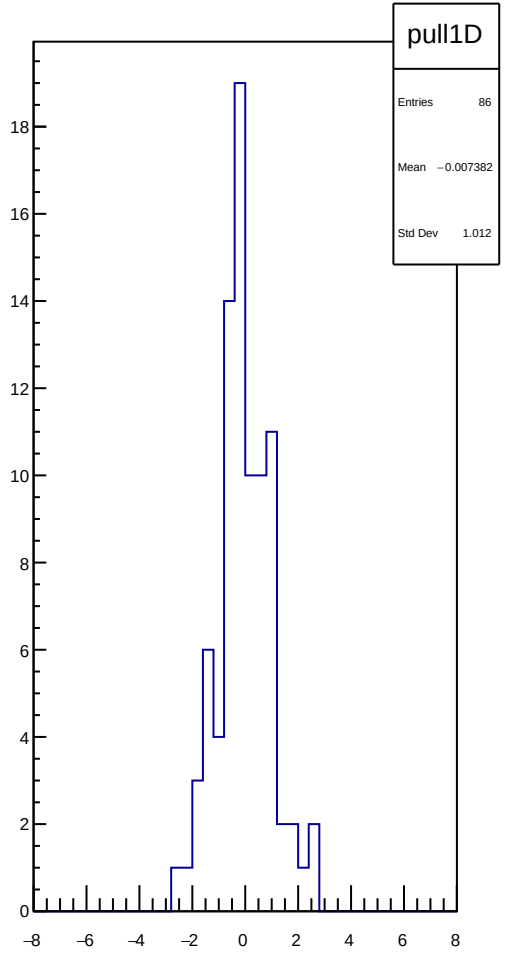

pull1D
Entries 86
Mean 0.00444
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

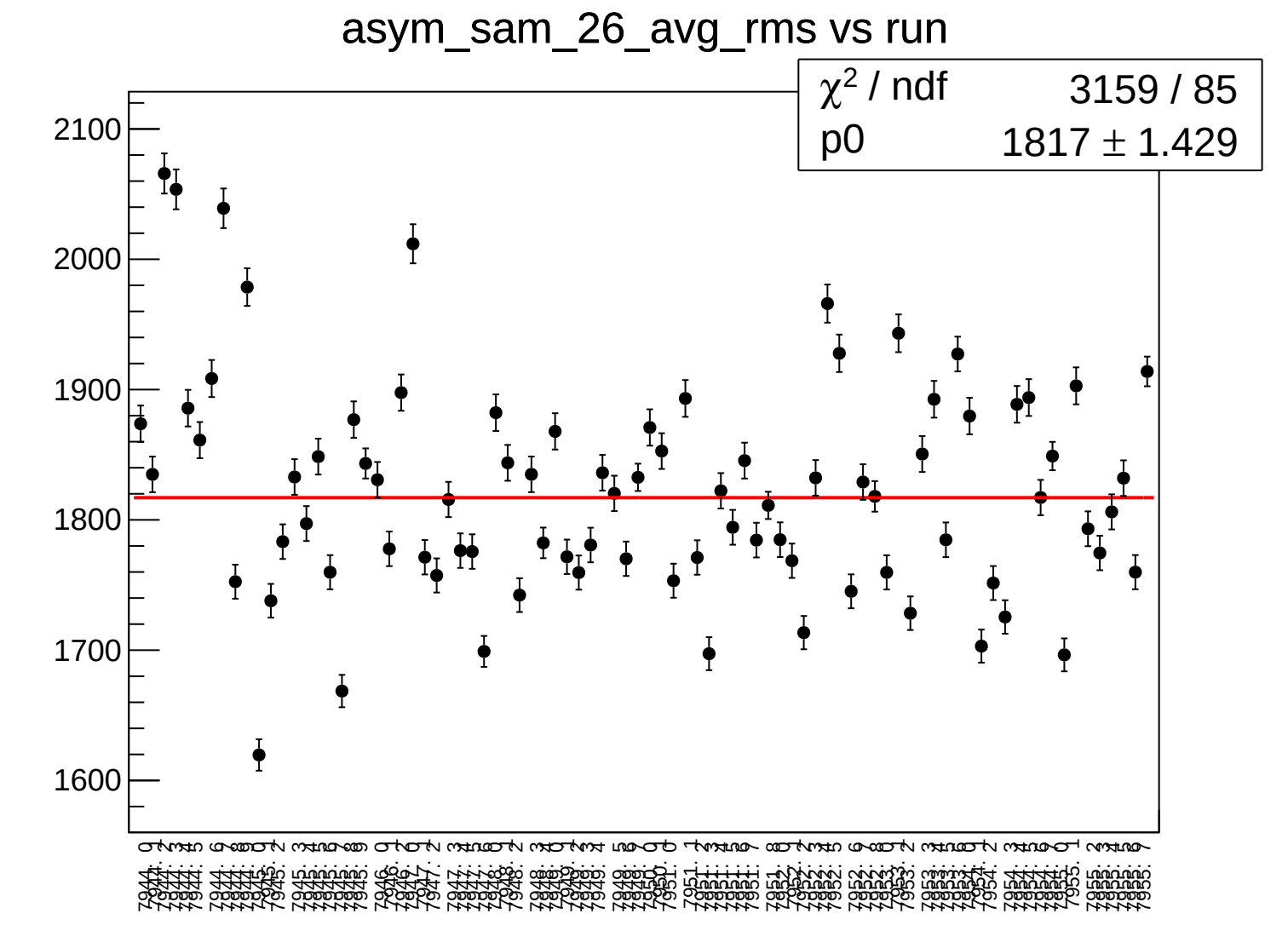

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 4.661e+04 / 85
p0 239.1 ± 0.1907
800
700
600
500
400
300
200

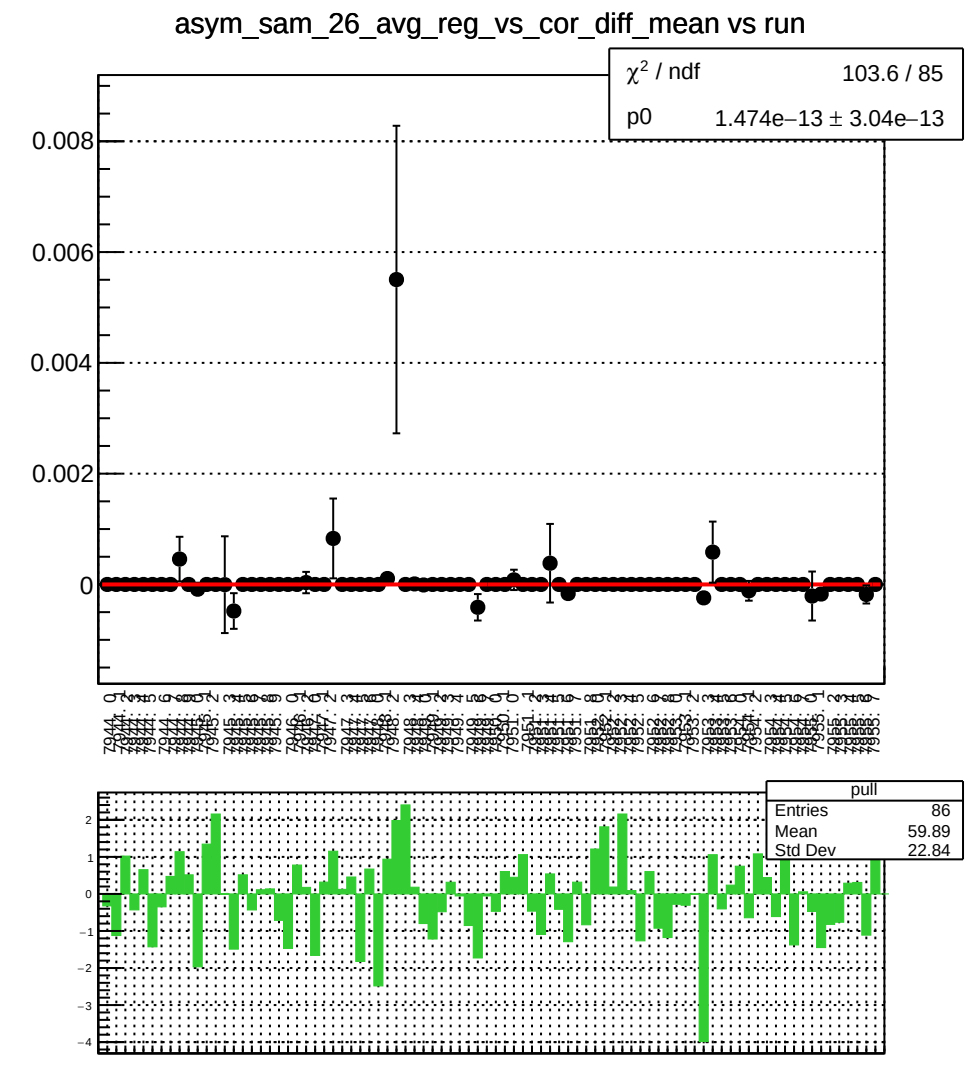

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.43 / 85
p0 145.9 ± 2052
pull
Entries 86
Mean 593.8
Std Dev 0
pull1D
Entries 86
Mean 0.005672
Std Dev 1.025

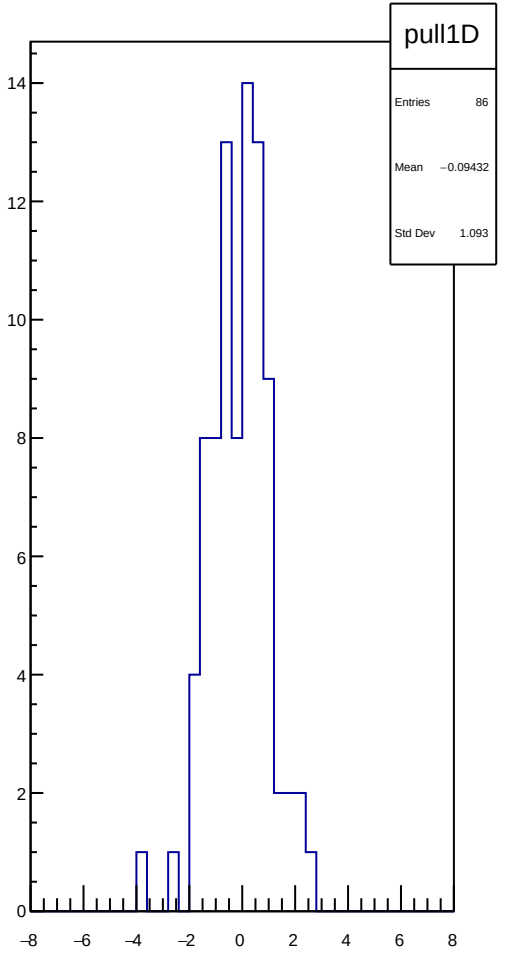

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 3064 / 85
p0 1844 ± 1.451
2100
2000
1900
1800
1700
1600

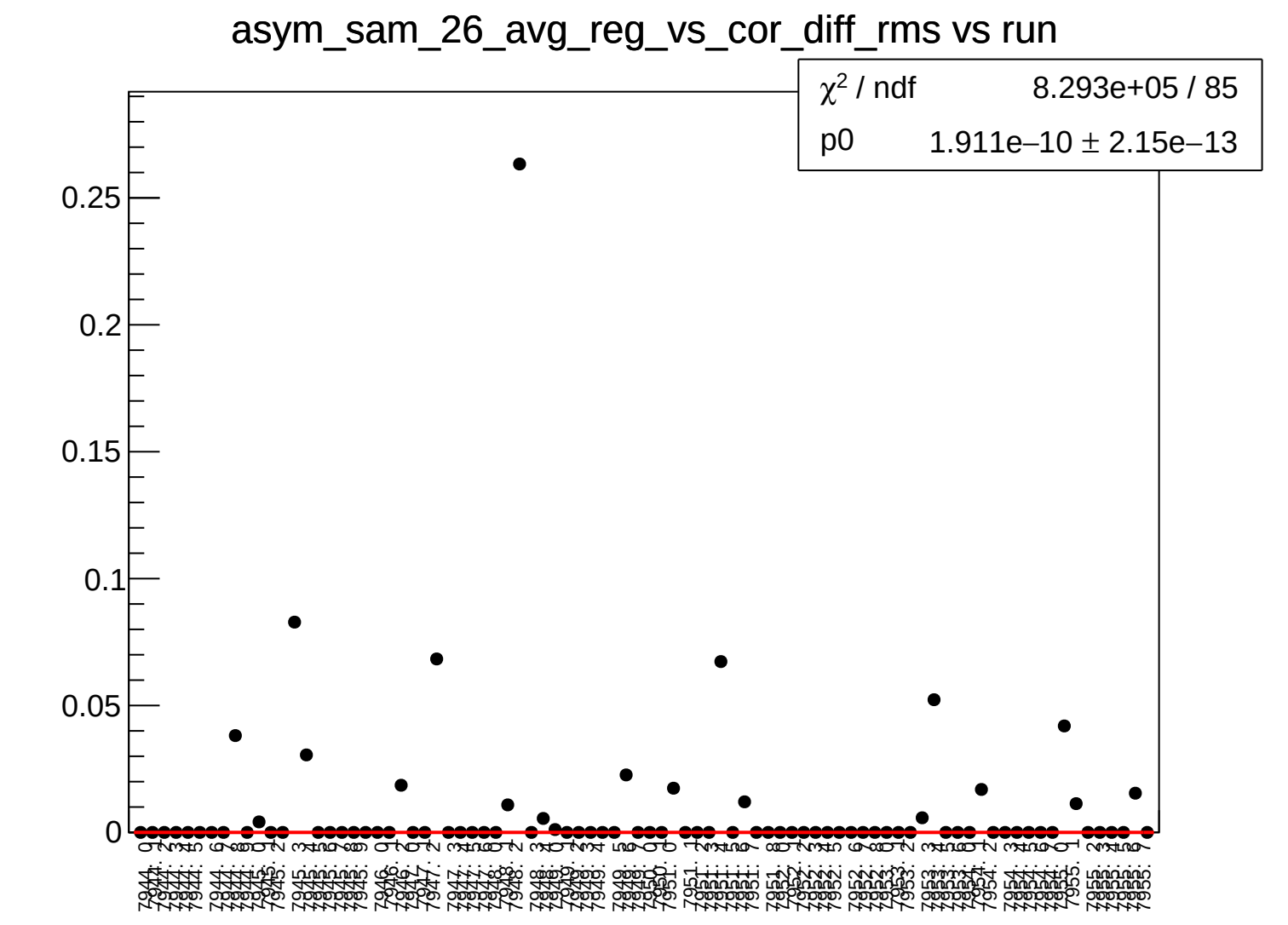

asym_sam_26_avg_mean vs run
χ² / ndf 88.02 / 85
p0 33.91 ± 2021
pull
Entries 86
Mean 424.9
Std Dev 0

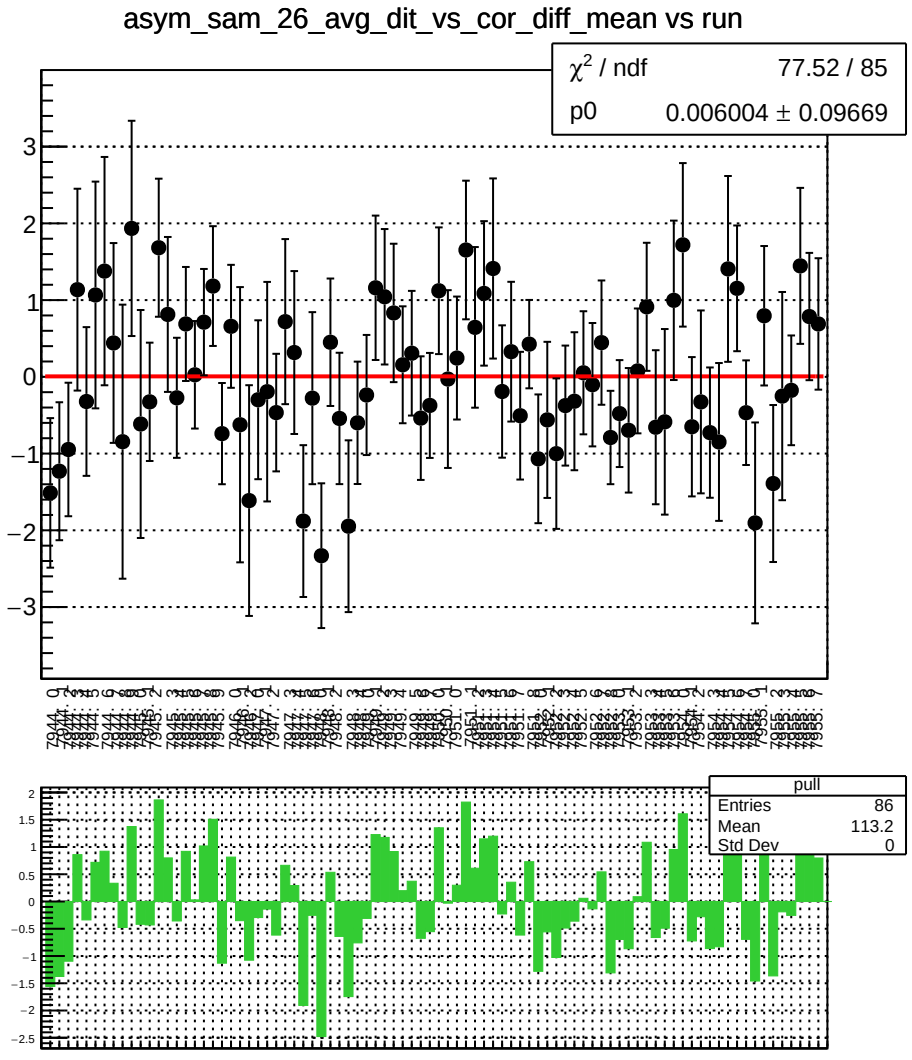

pull1D
Entries 86
Mean −0.007382
Std Dev 1.012

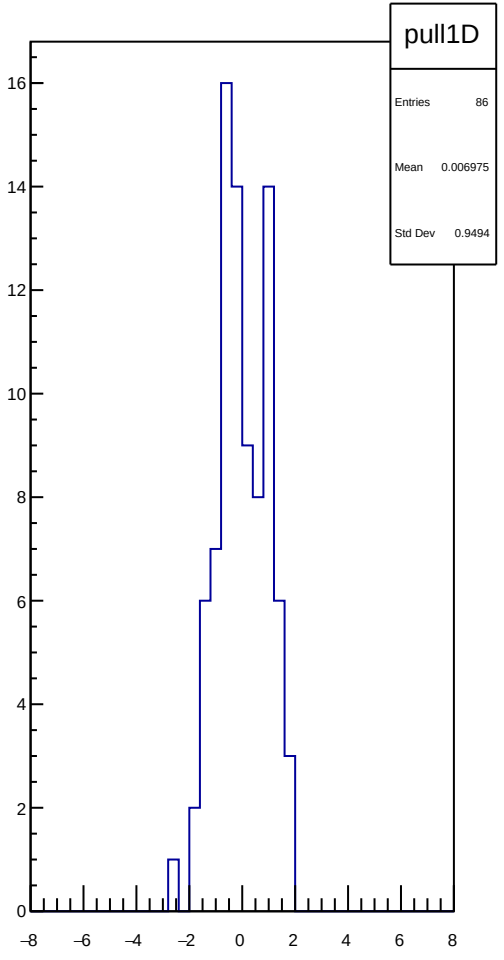

asym_sam_26_avg_rms vs run
χ^2 / ndf 3159 / 85
p0 1817 ± 1.429
2100
2000
1900
1800
1700
1600

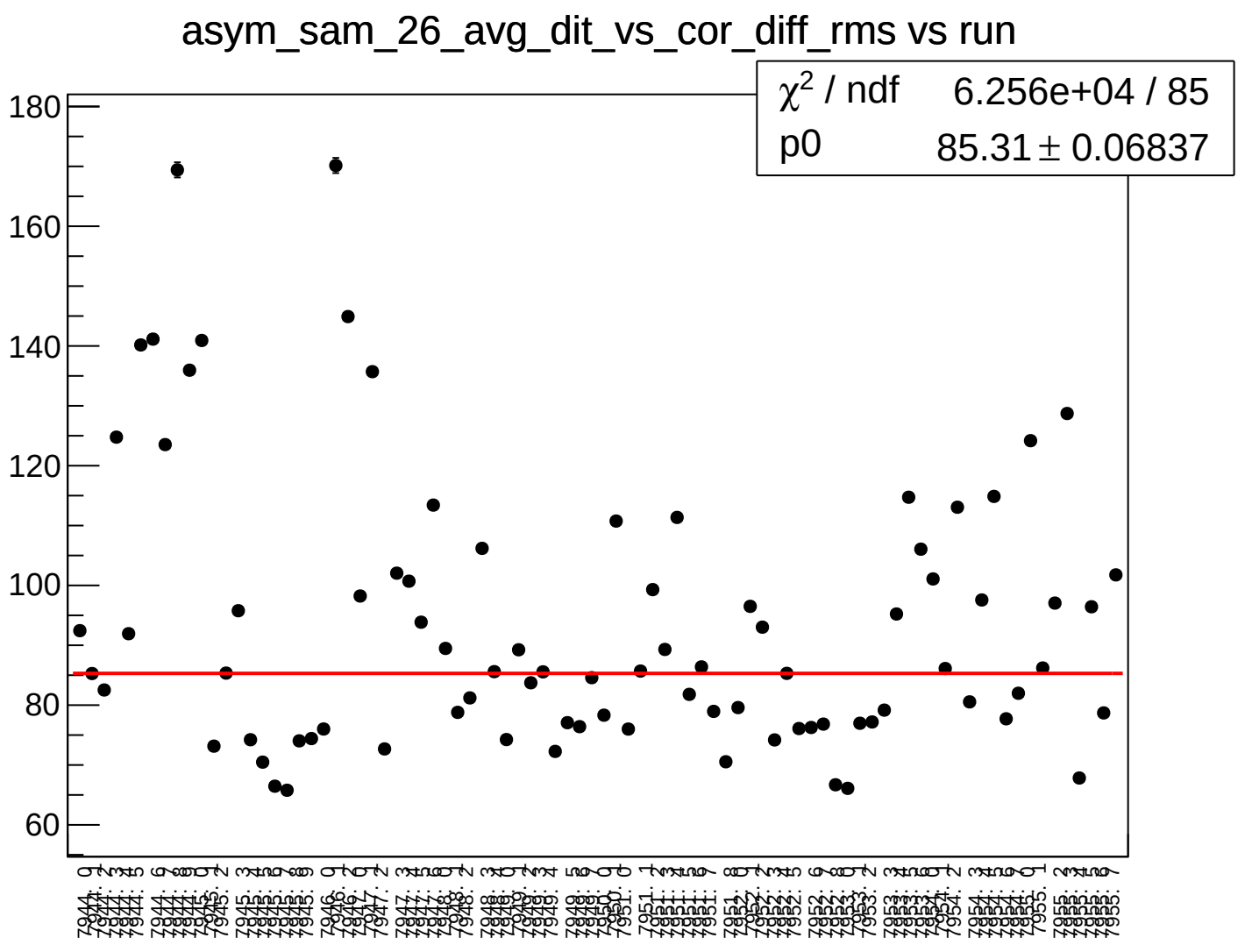

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 85
p0 1.474e−13 ± 3.04e−13
0.008
0.006
0.004
0.002
0
pull
Entries 86
Mean 59.89
Std Dev 22.84
2
1
0
−1
−2
−3
−4

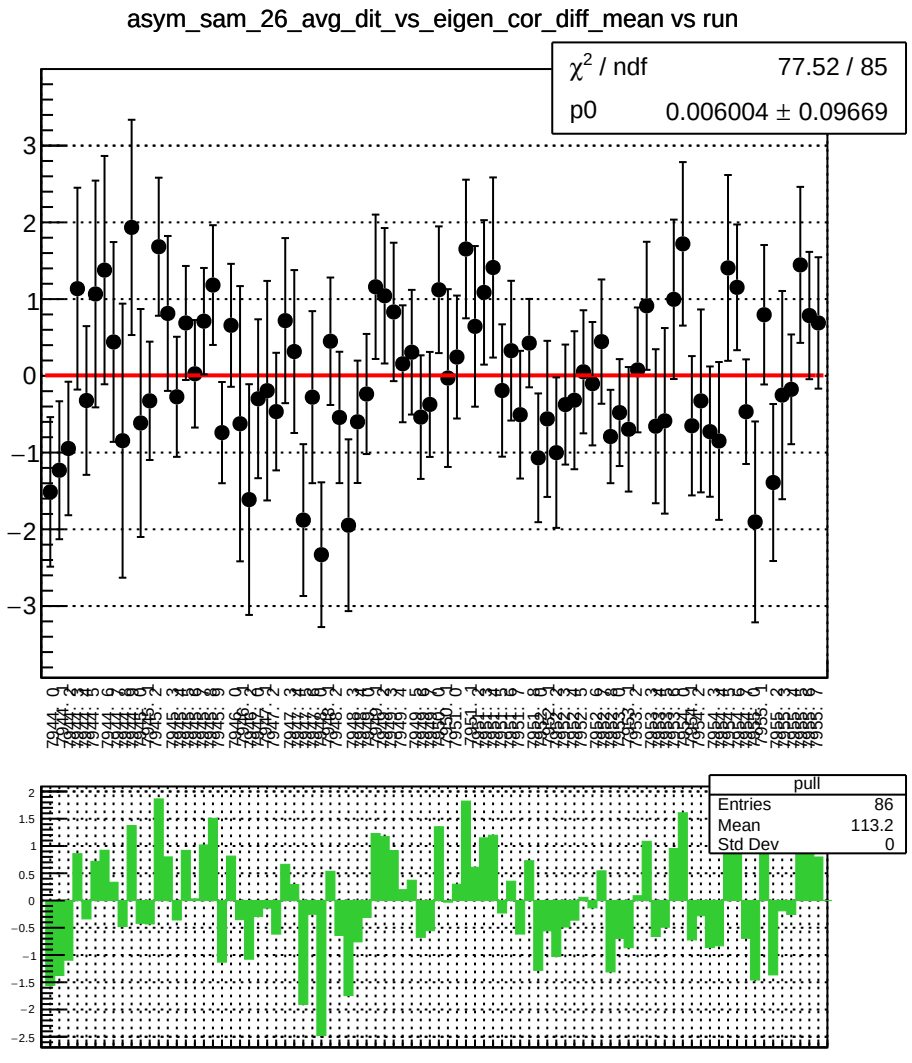

pull1D
Entries 86
Mean −0.09432
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

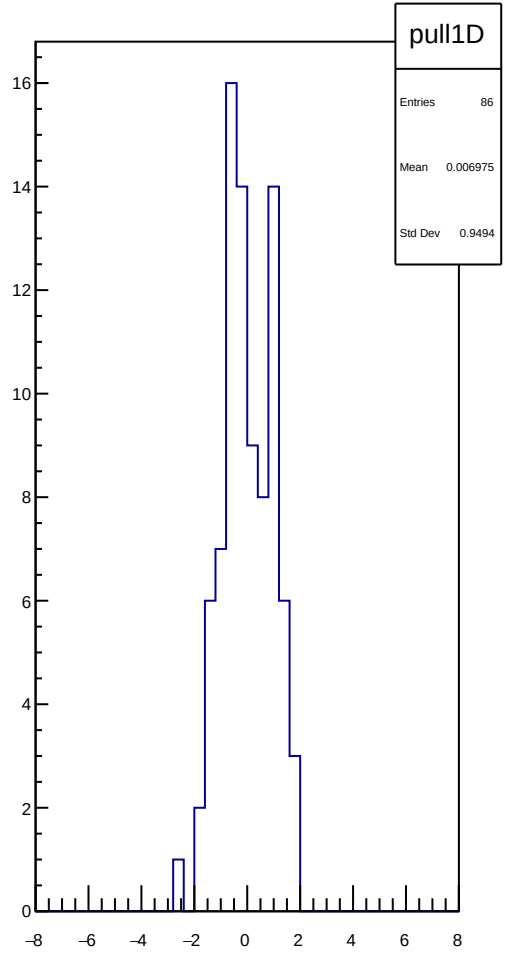

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.293e+05 / 85
p0 1.911e−10 ± 2.15e−13
0.25
0.2
0.15
0.1
0.05
0

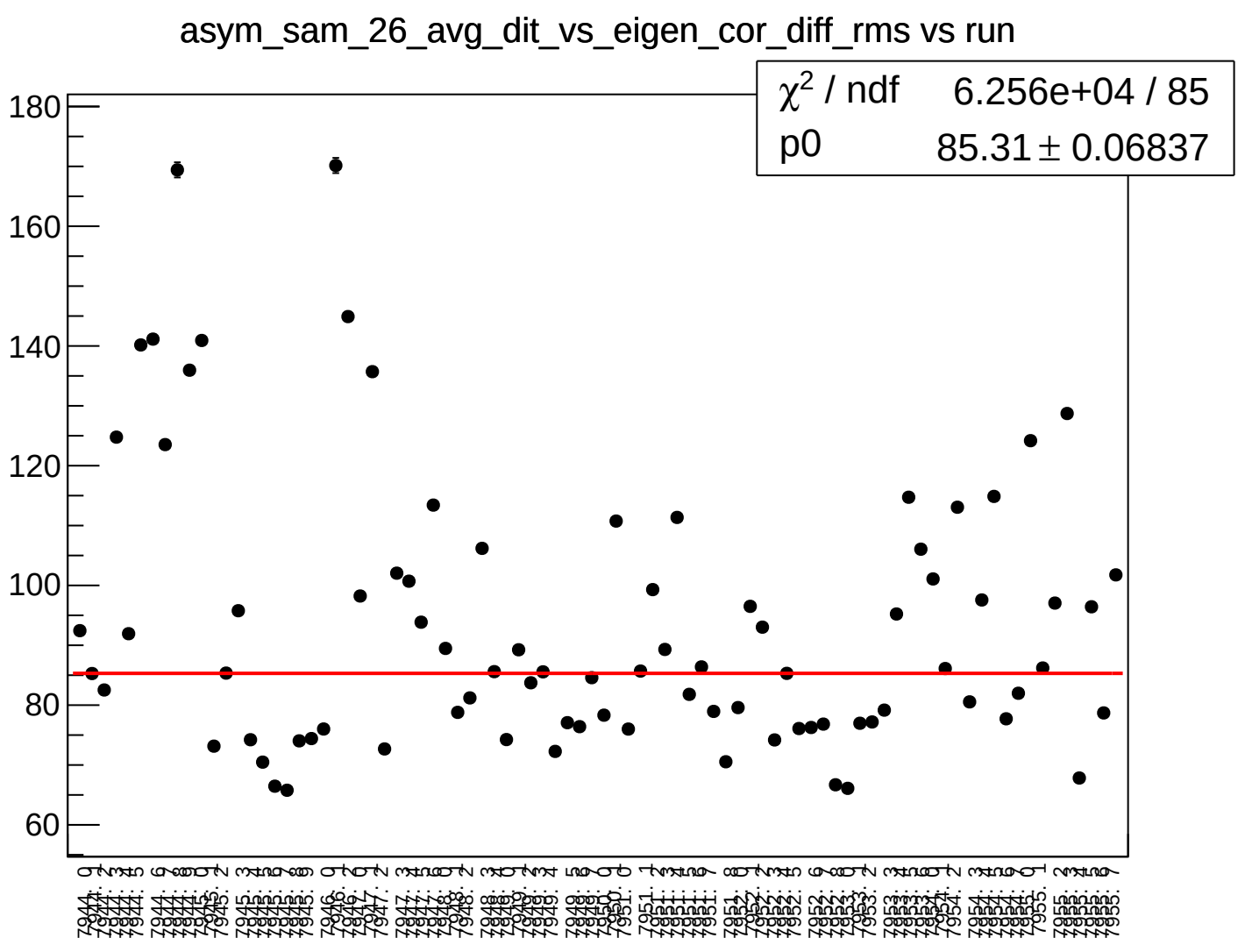

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.52 / 85
p0 0.006004 ± 0.09669
pull
Entries 86
Mean 113.2
Std Dev 0

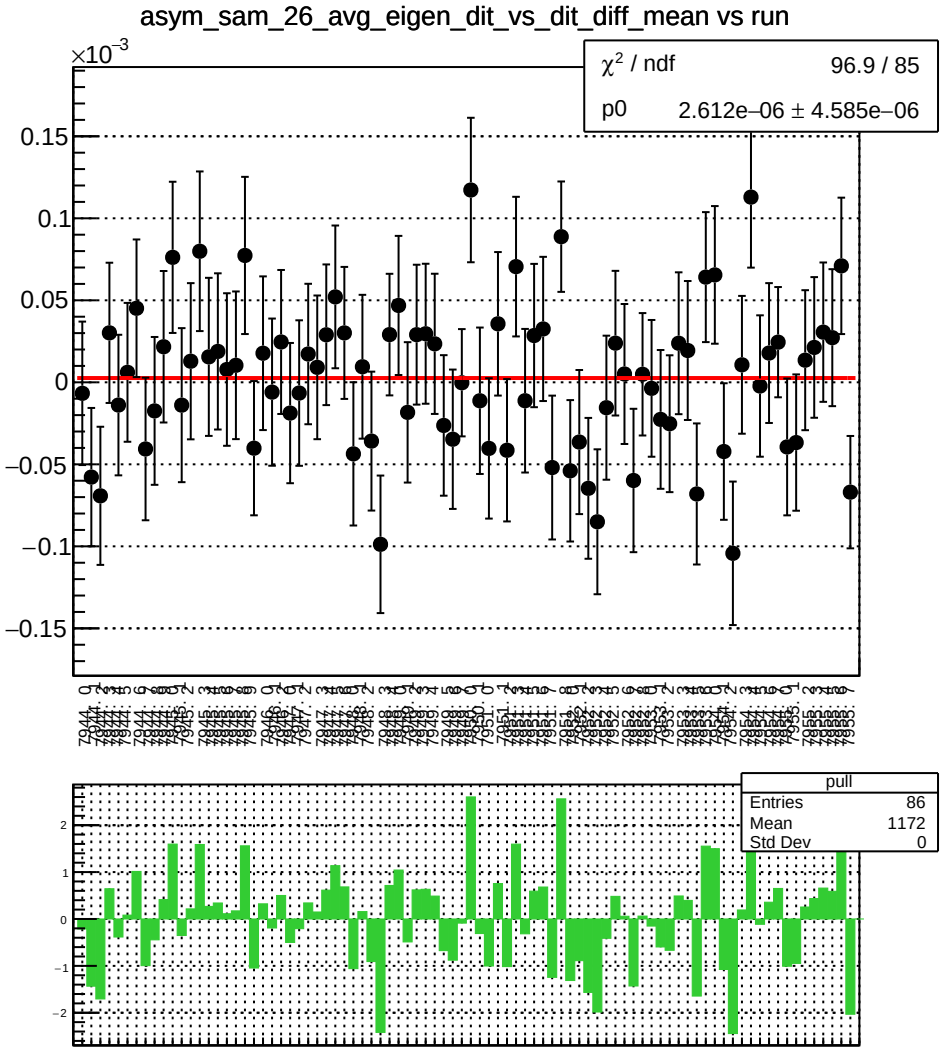

pull1D
Entries 86
Mean 0.006975
Std Dev 0.9494

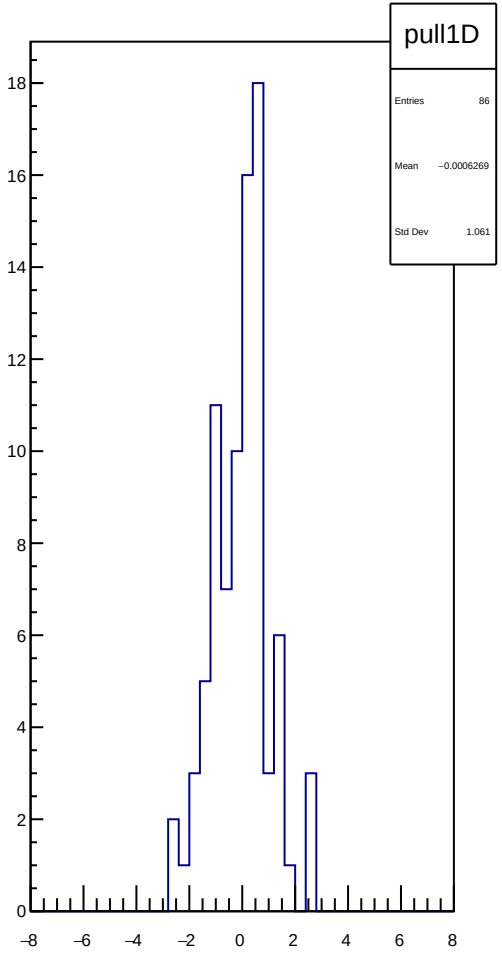

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.256e+04 / 85
p0 85.31 ± 0.06837
180
160
140
120
100
80
60

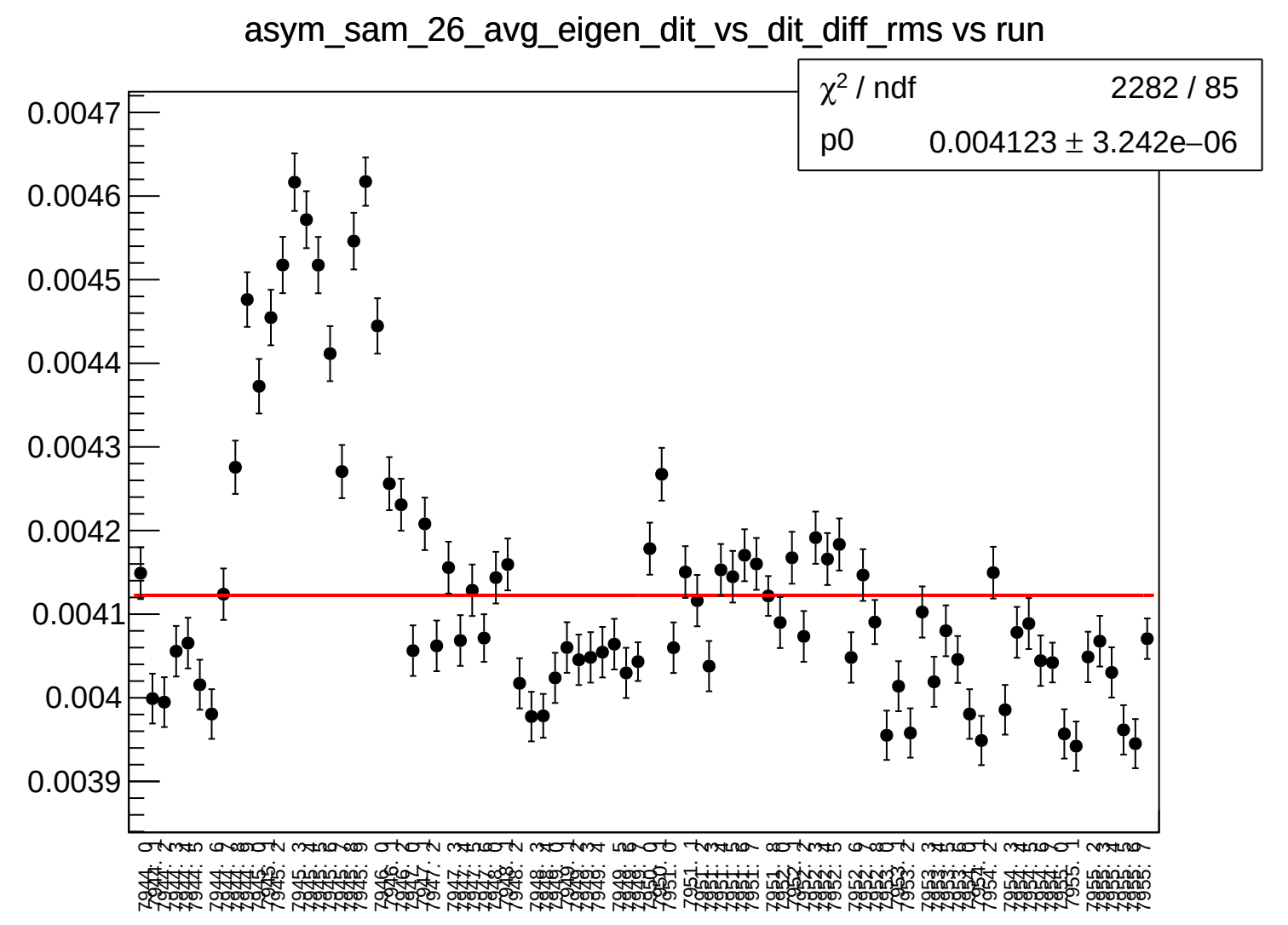

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.52 / 85
p0 0.006004 ± 0.09669
pull
Entries 86
Mean 113.2
Std Dev 0

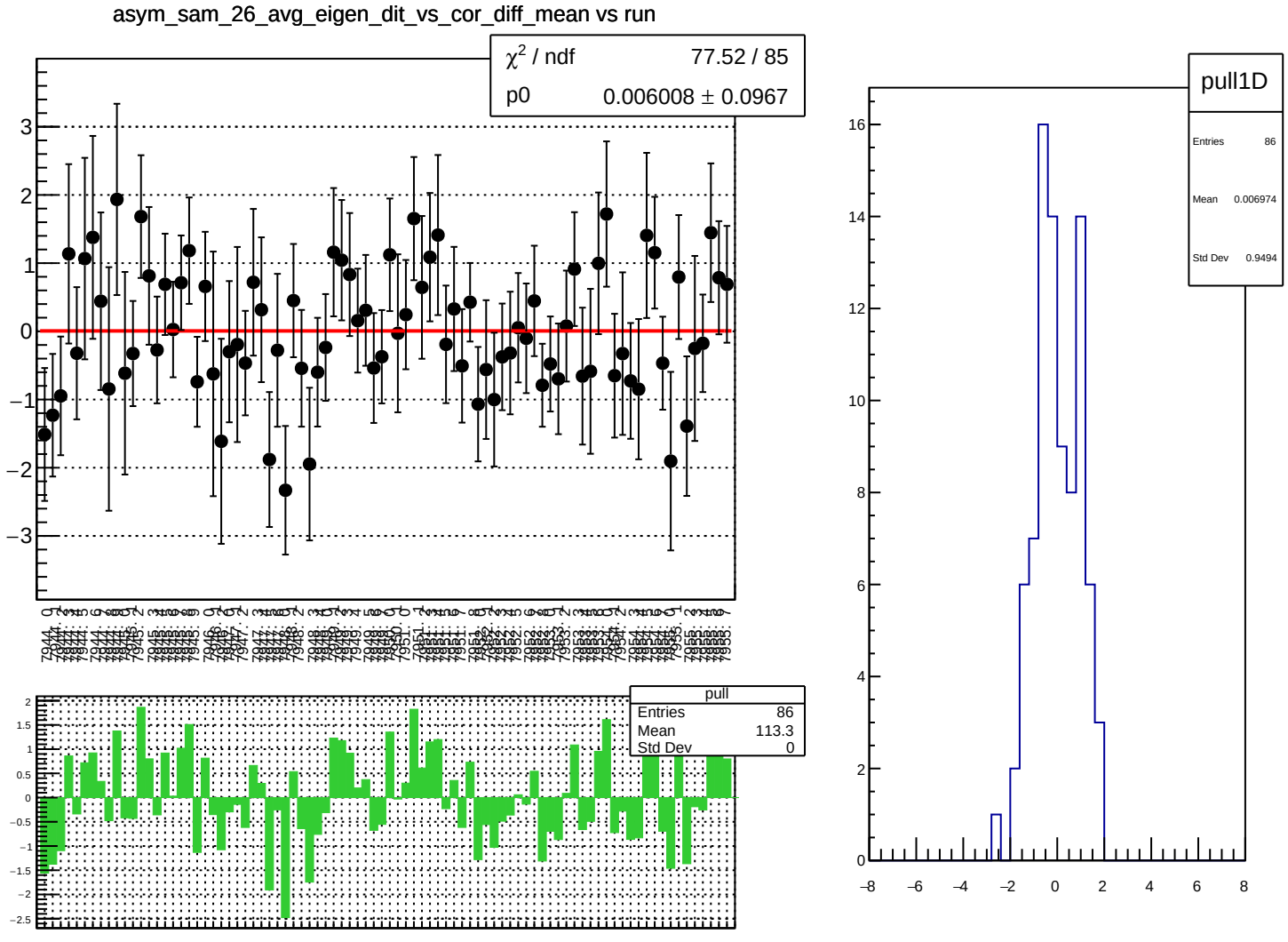

pull1D
Entries 86
Mean 0.006975
Std Dev 0.9494

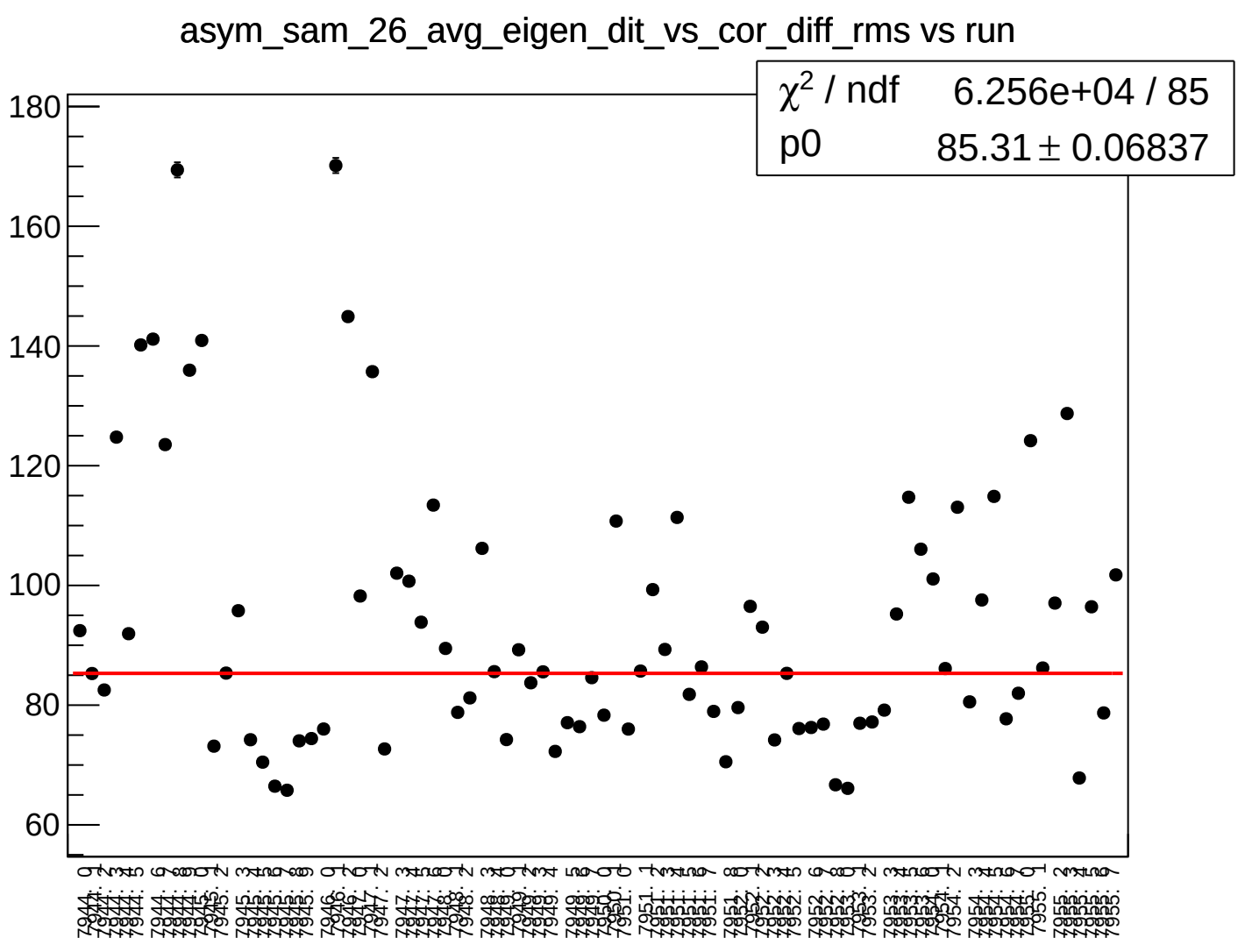

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.256e+04 / 85
p0 85.31 ± 0.06837
180
160
140
120
100
80
60

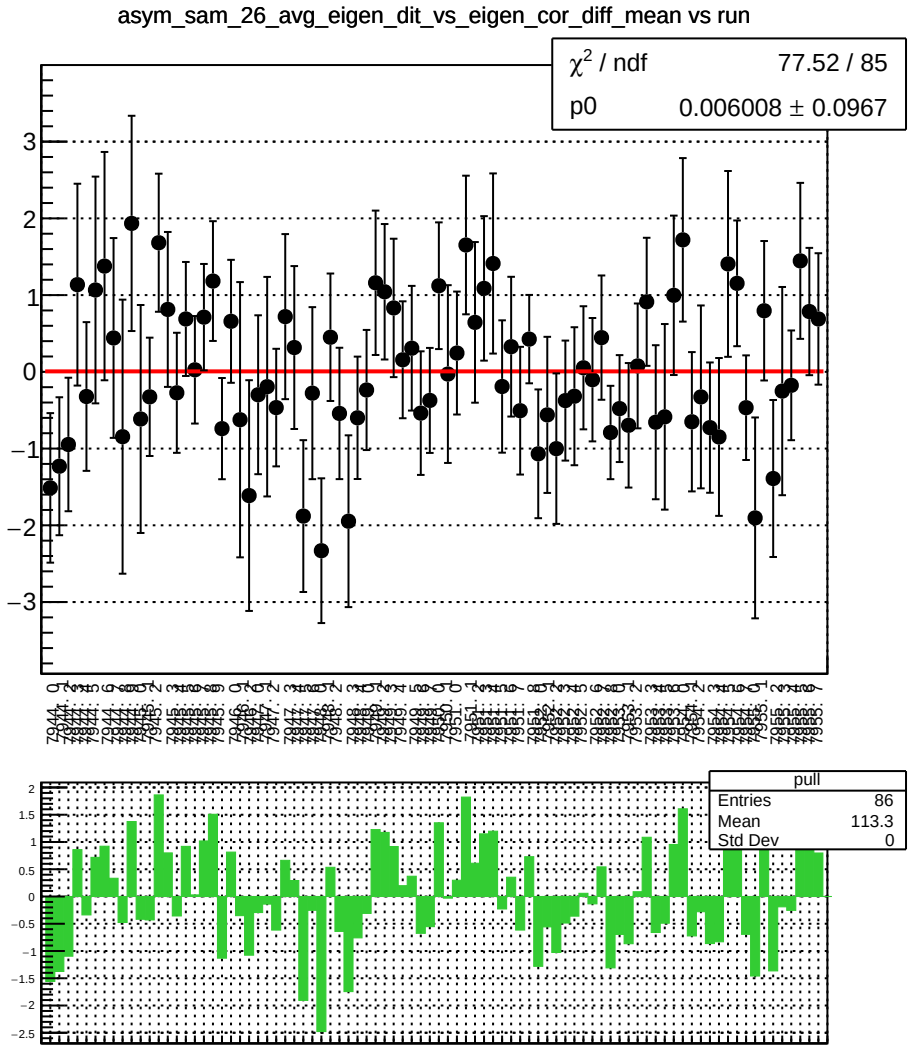

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.9 / 85
p0 2.612e−06 ± 4.585e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 1172
Std Dev 0
2
1
0
−1
−2

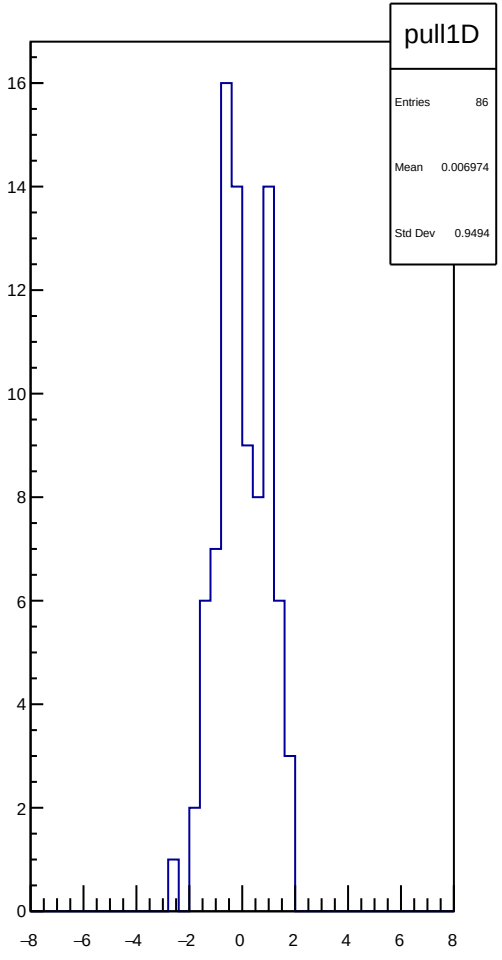

pull1D
Entries 86
Mean −0.0006269
Std Dev 1.061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

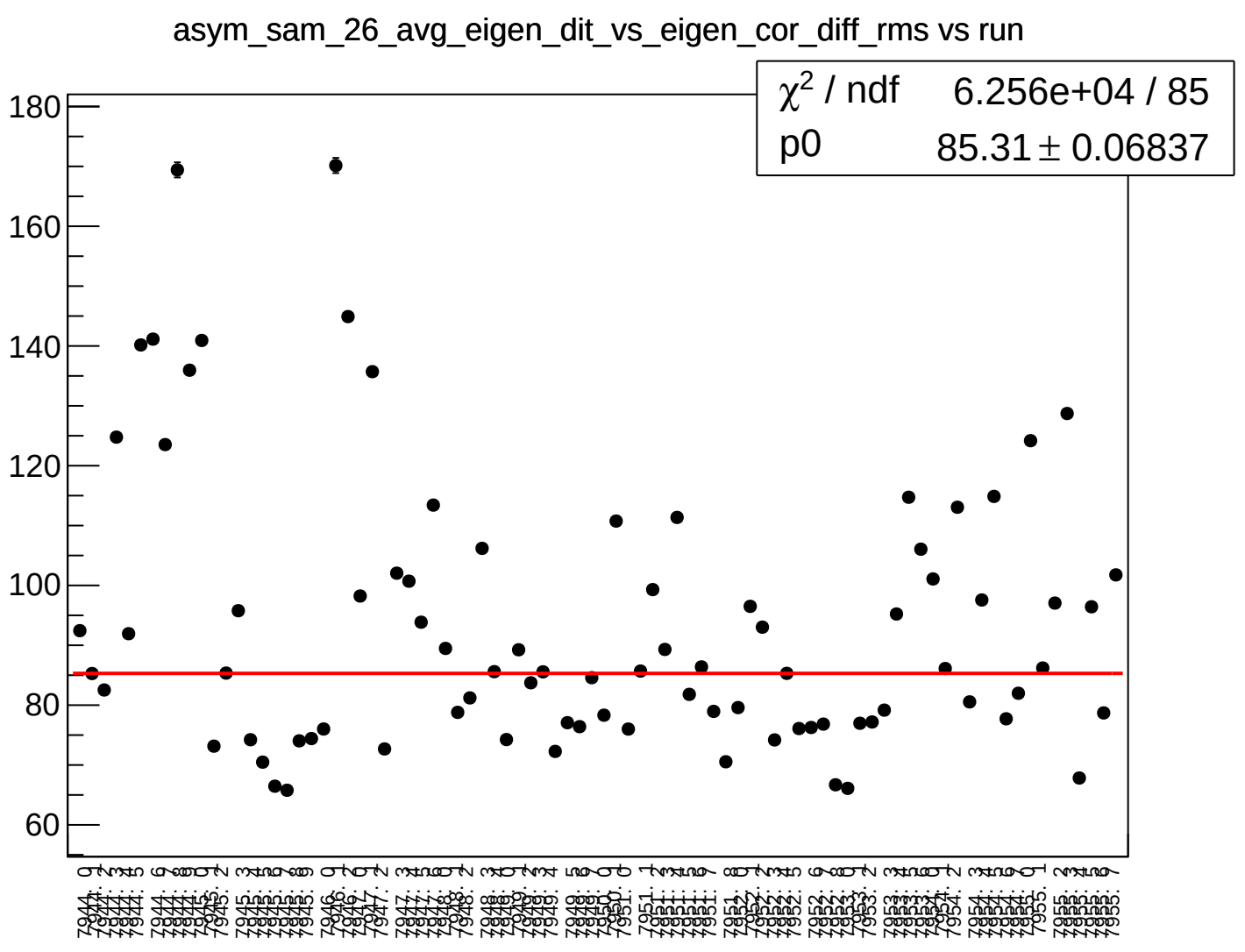

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2282 / 85
p0 0.004123 ± 3.242e−06
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039

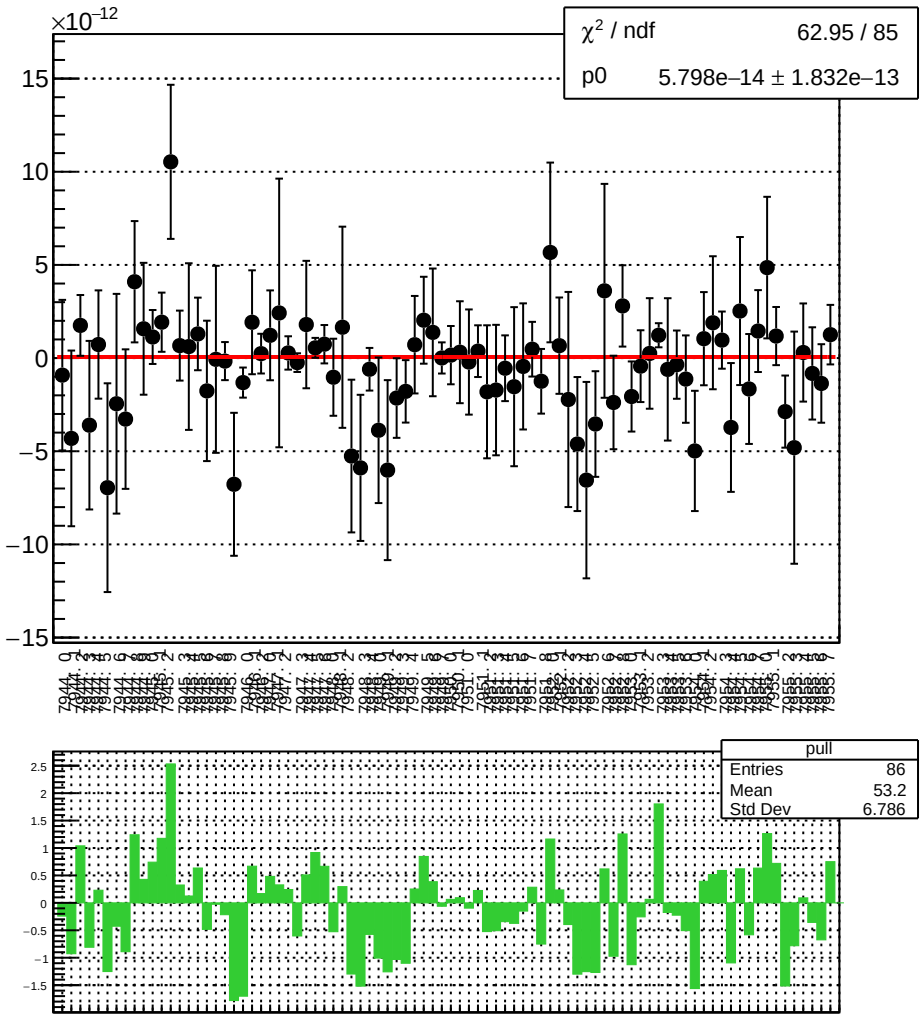

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.52 / 85
p0 0.006008 ± 0.0967
pull
Entries 86
Mean 113.3
Std Dev 0
pull1D
Entries 86
Mean 0.006974
Std Dev 0.9494

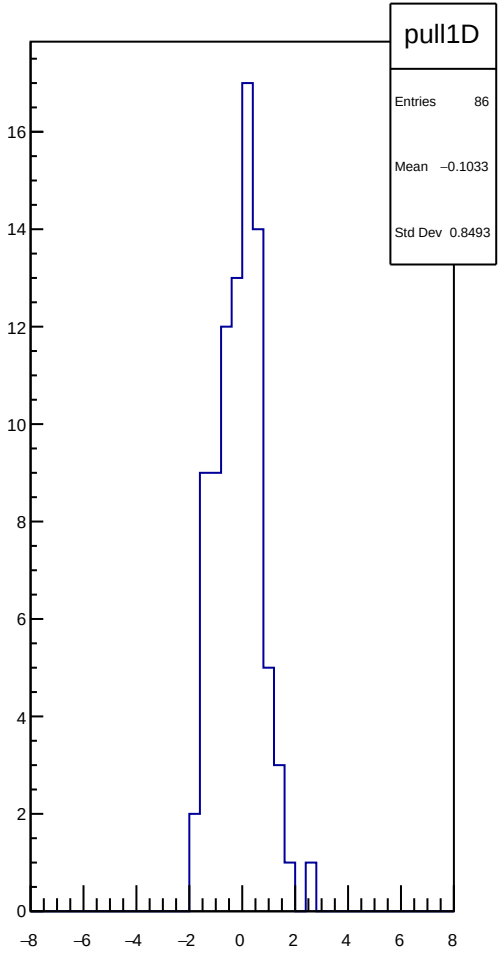

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.256e+04 / 85
p0 85.31 ± 0.06837
180
160
140
120
100
80
60

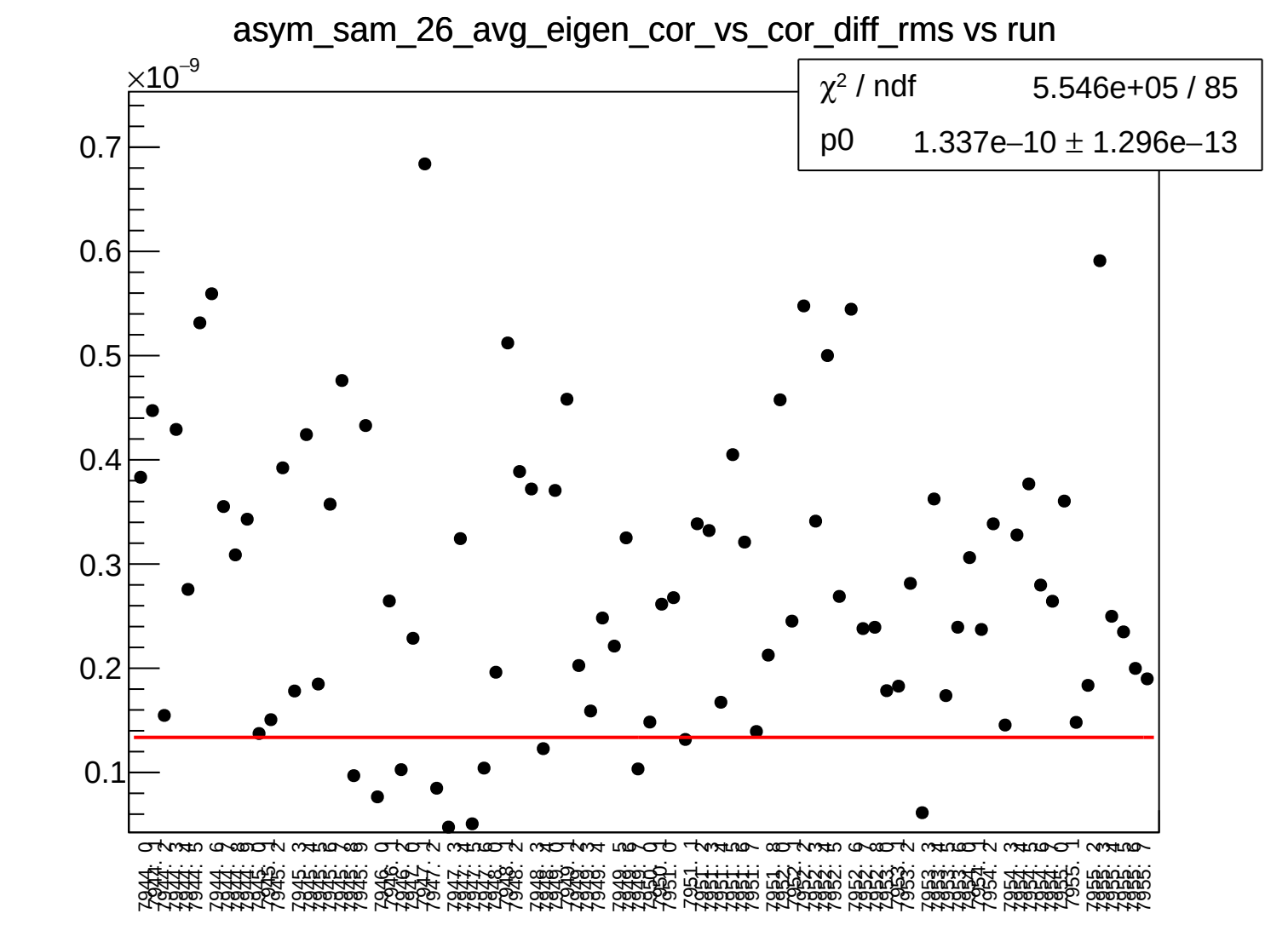

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.52 / 85
p0 0.006008 ± 0.0967
pull
Entries 86
Mean 113.3
Std Dev 0

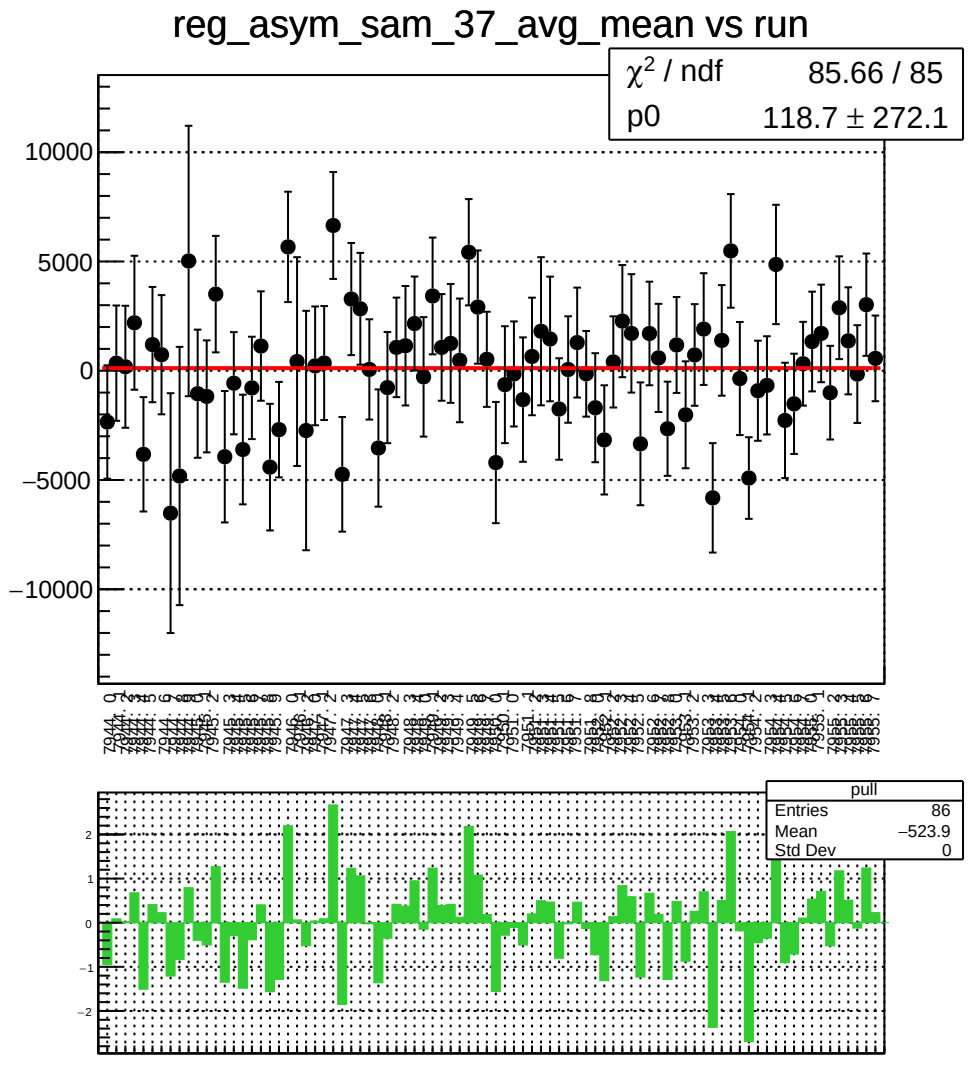

pull1D
Entries 86
Mean 0.006974
Std Dev 0.9494

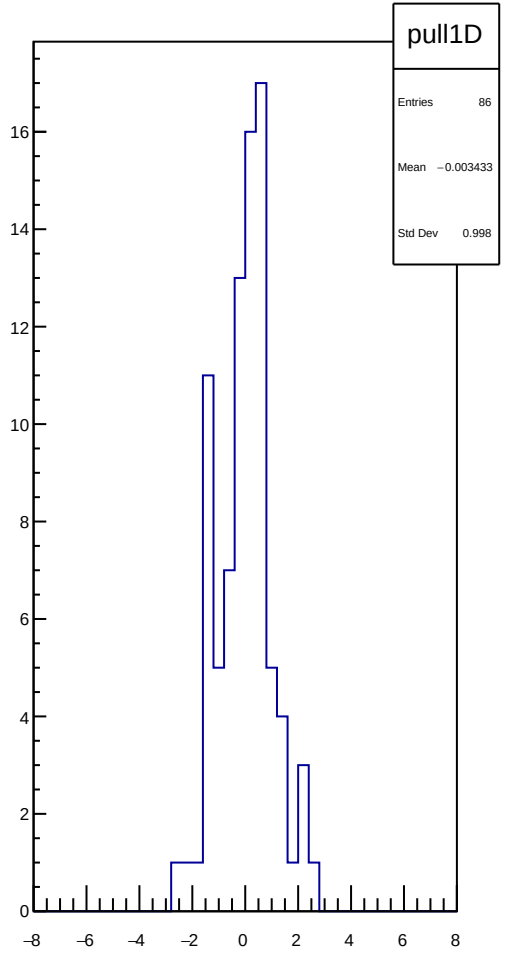

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.256e+04 / 85
p0 85.31 ± 0.06837
180
160
140
120
100
80
60

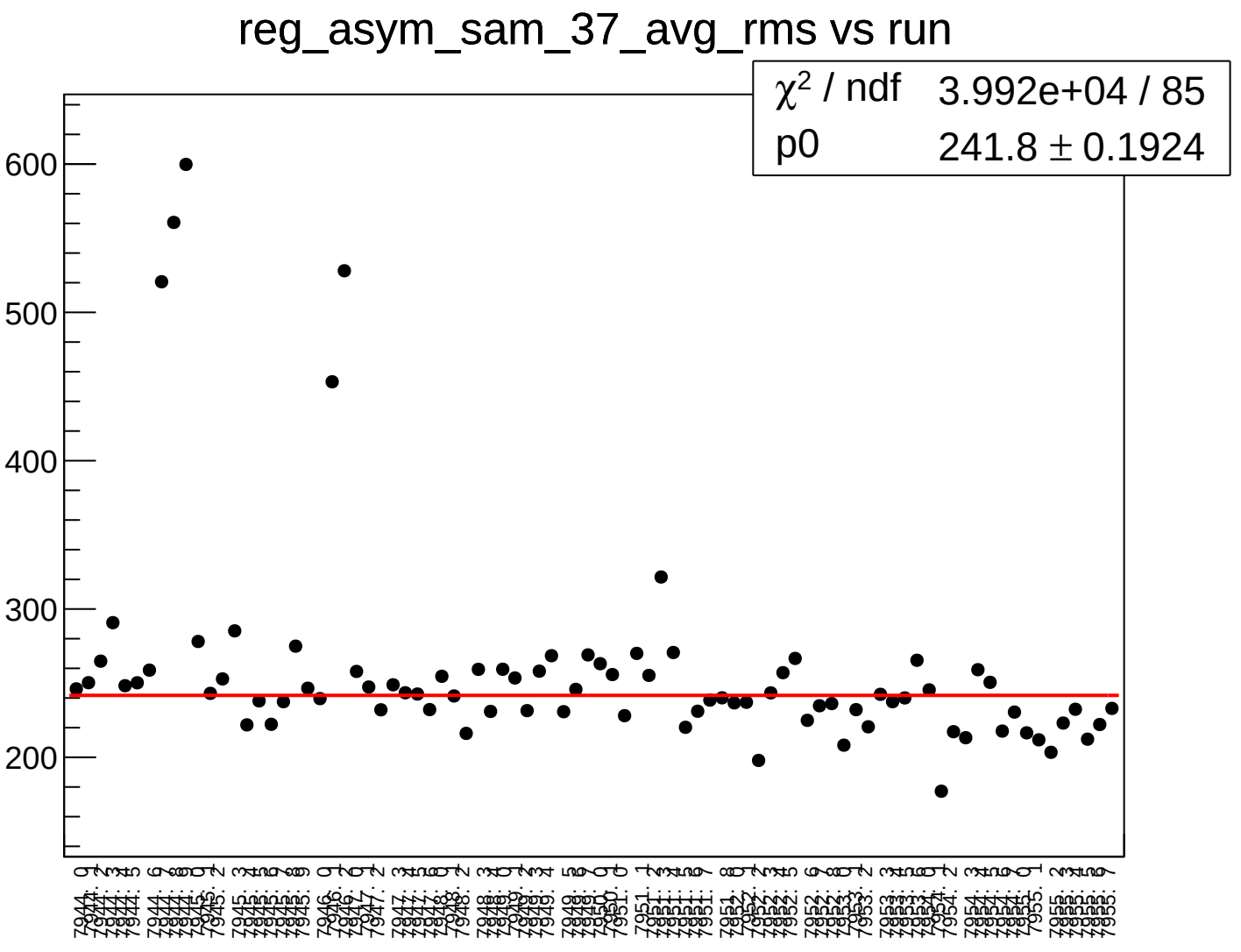

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.95 / 85
p0 5.798e−14 ± 1.832e−13
pull
Entries 86
Mean 53.2
Std Dev 6.786

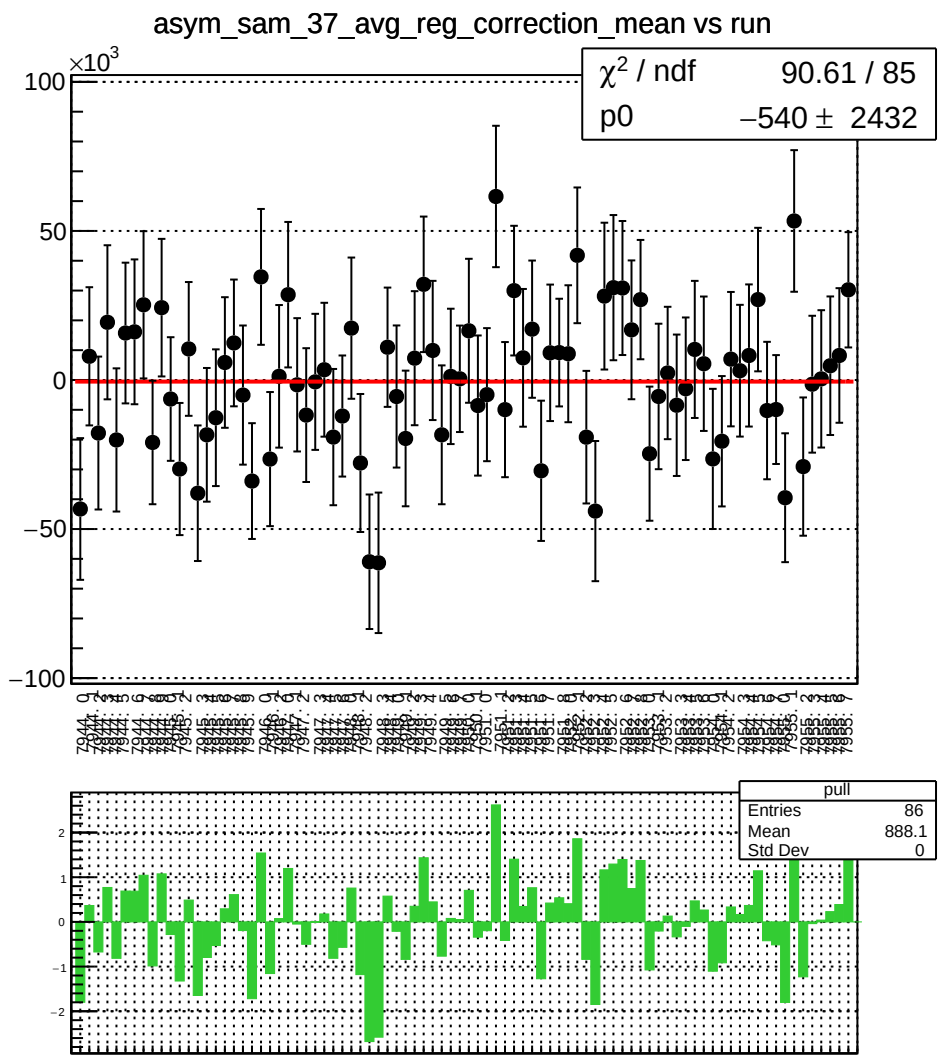

pull1D
Entries 86
Mean −0.1033
Std Dev 0.8493

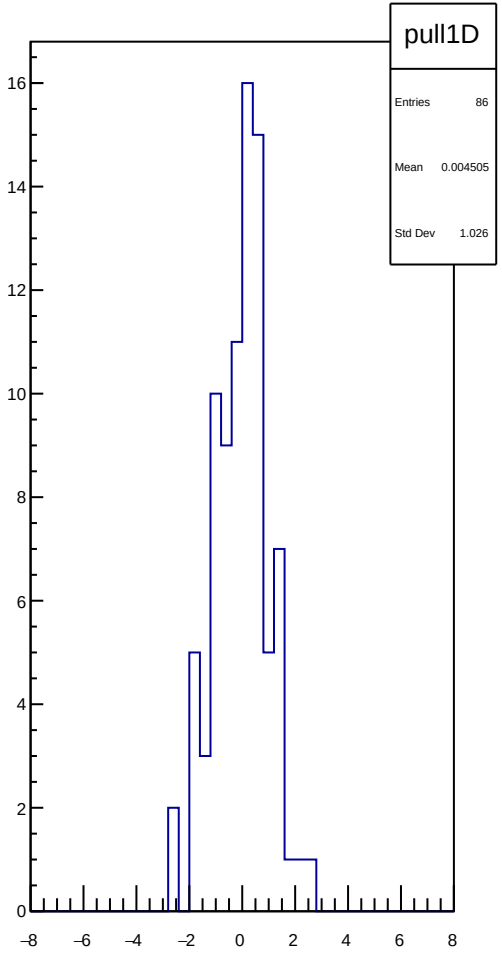

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.546e+05 / 85
p0 1.337e−10 ± 1.296e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

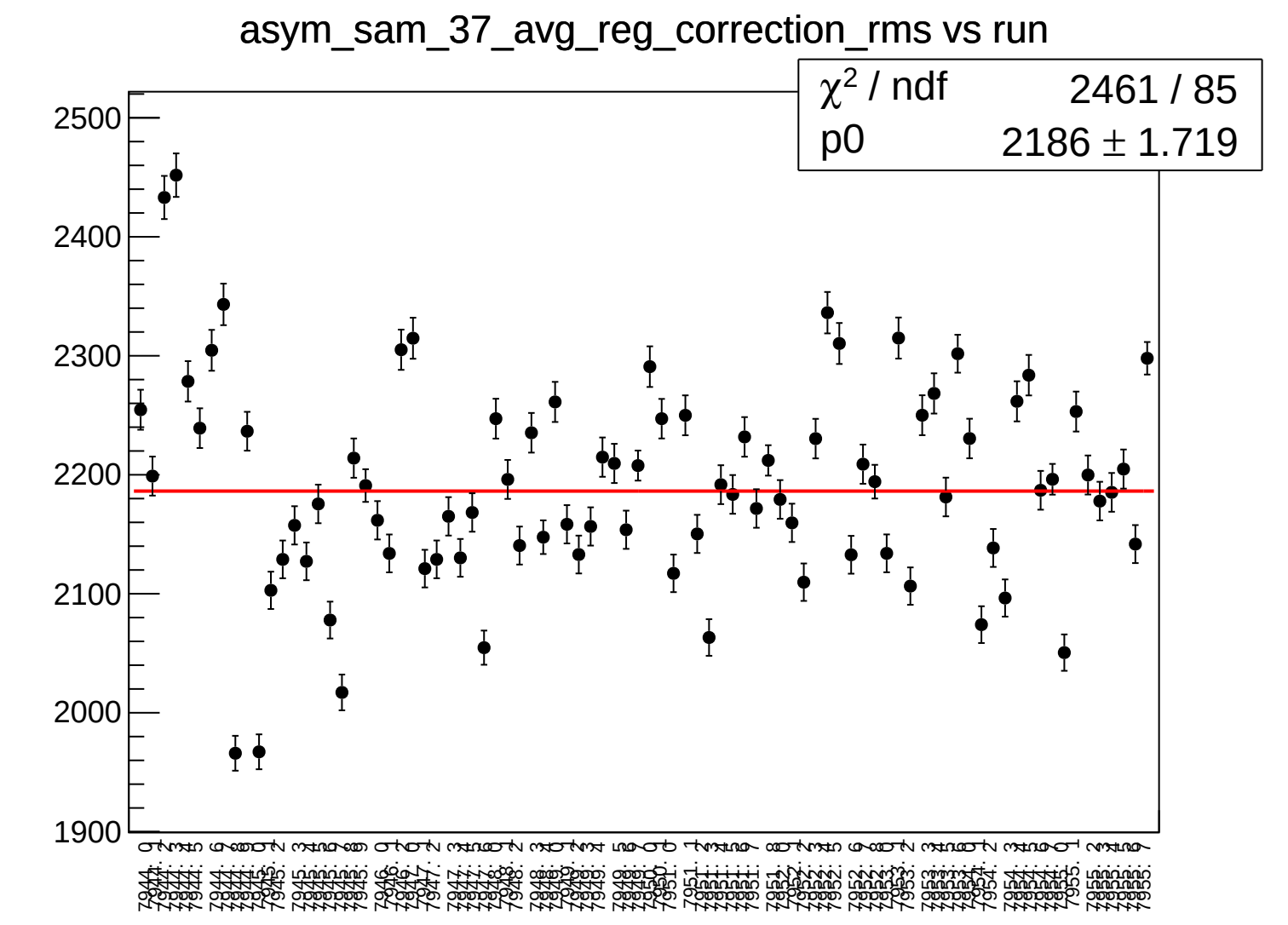

reg_asym_sam_37_avg_mean vs run
χ² / ndf 85.66 / 85
p0 118.7 ± 272.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −523.9
Std Dev 0
2
1
0
−1
−2

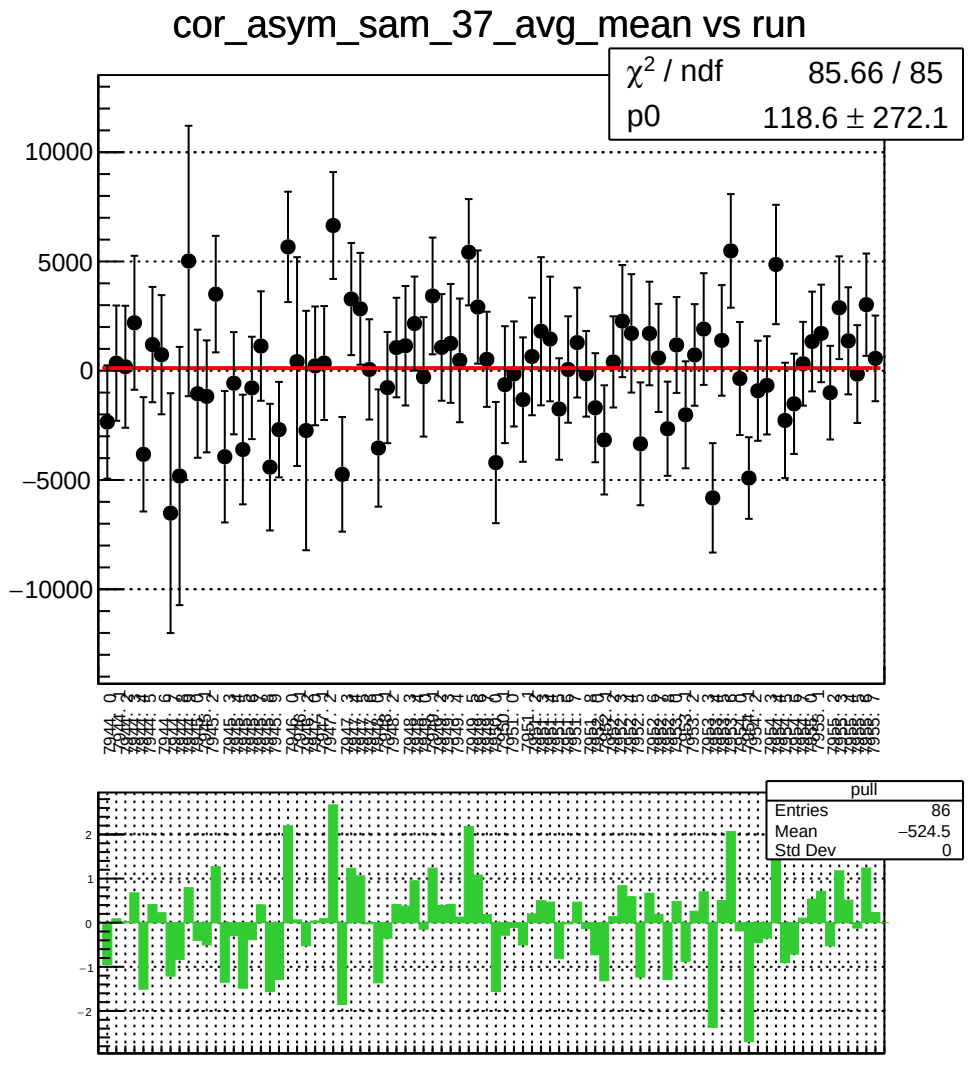

pull1D
Entries 86
Mean −0.003433
Std Dev 0.998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

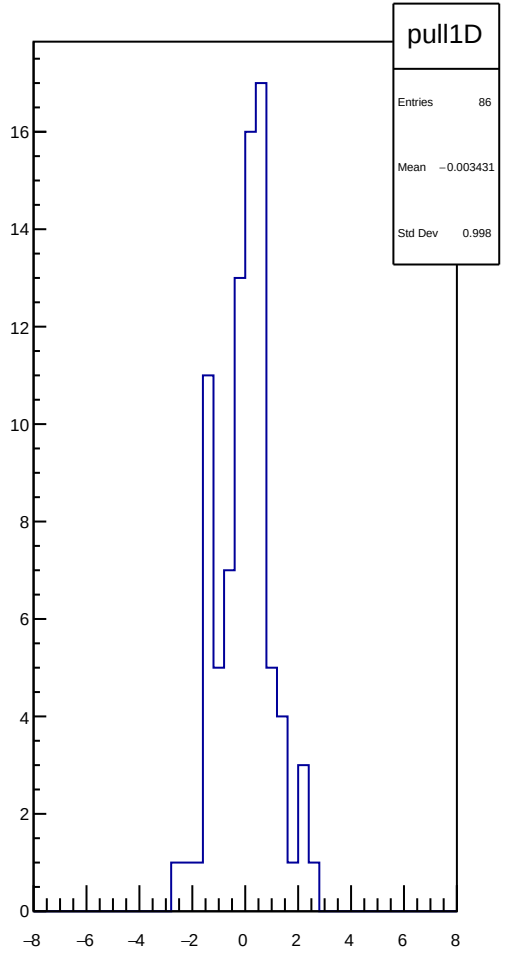

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.992e+04 / 85
p0 241.8 ± 0.1924
600
500
400
300
200

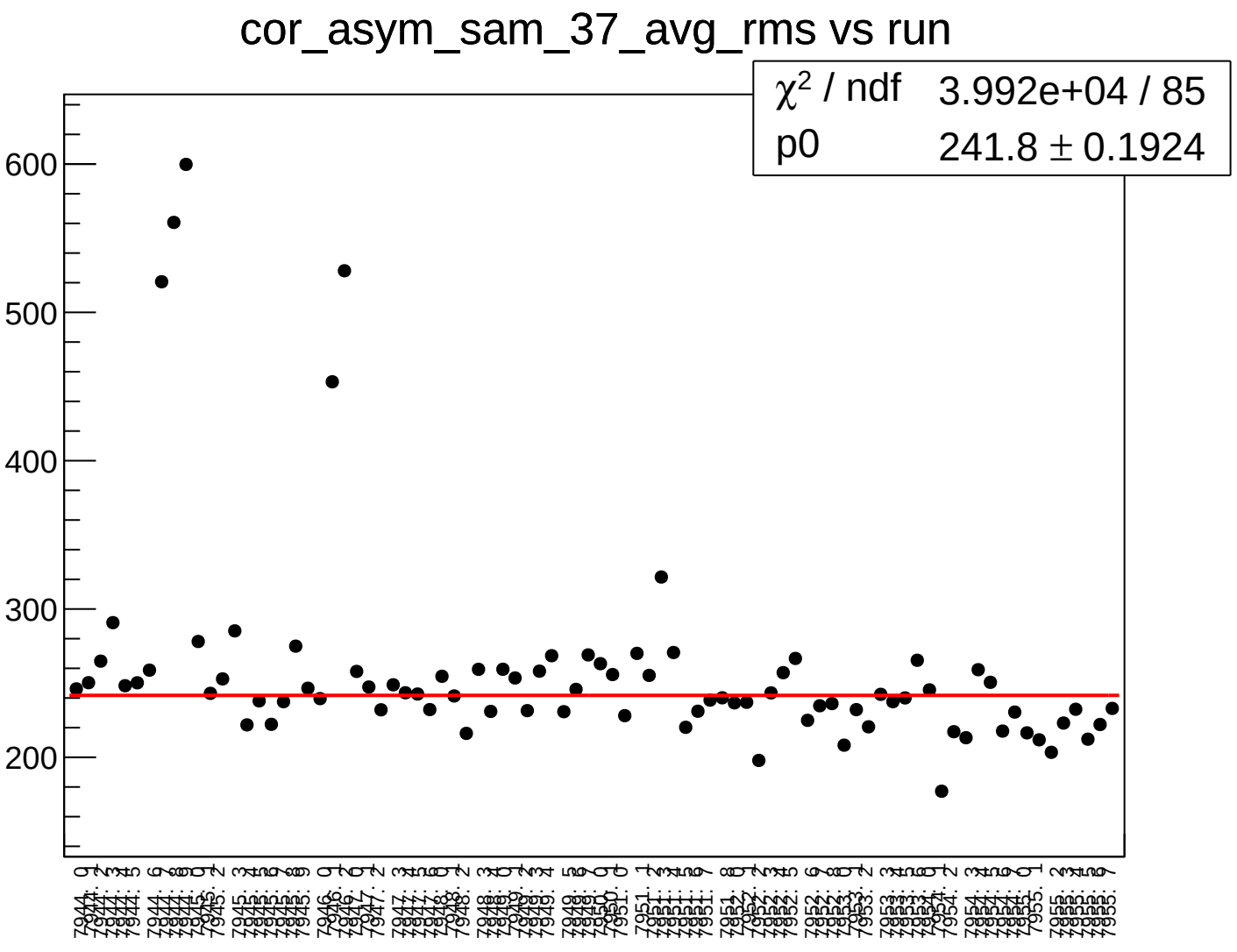

asym_sam_37_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.61 / 85
p0 −540 ± 2432
pull
Entries 86
Mean 888.1
Std Dev 0

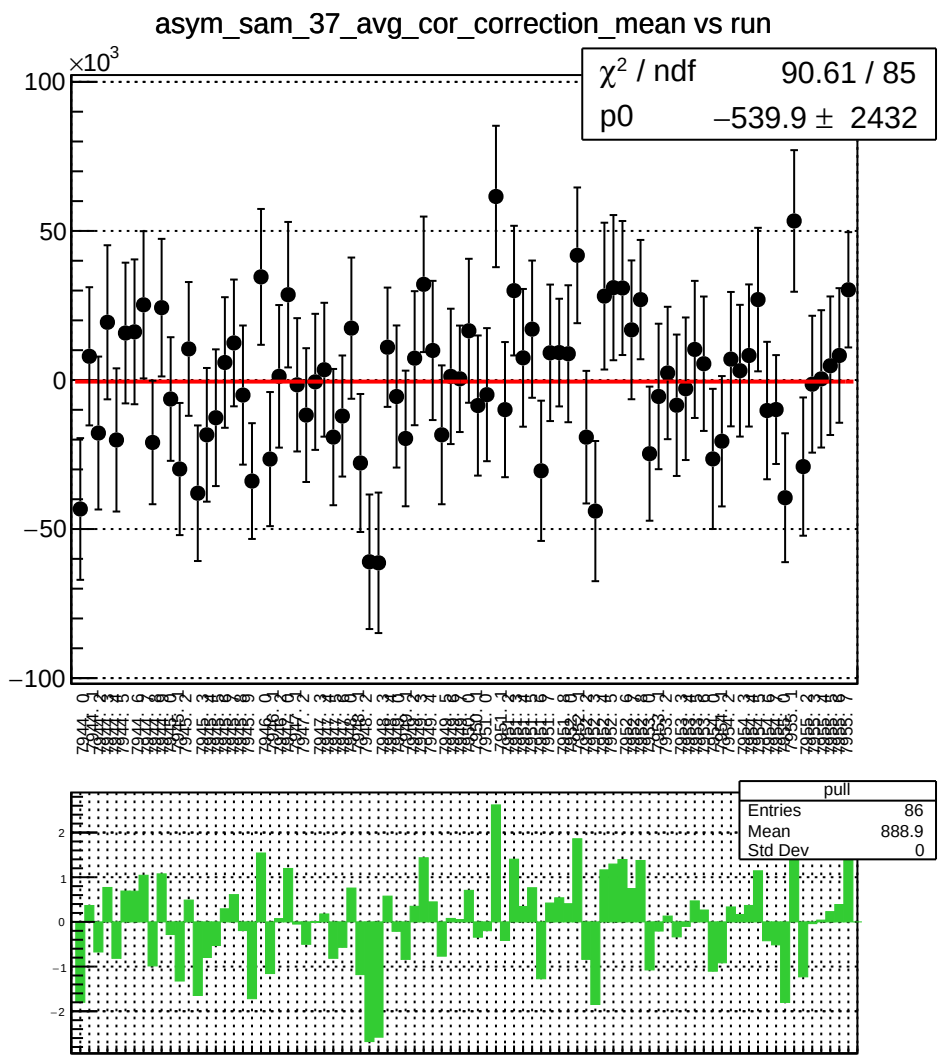

pull1D
Entries 86
Mean 0.004505
Std Dev 1.026

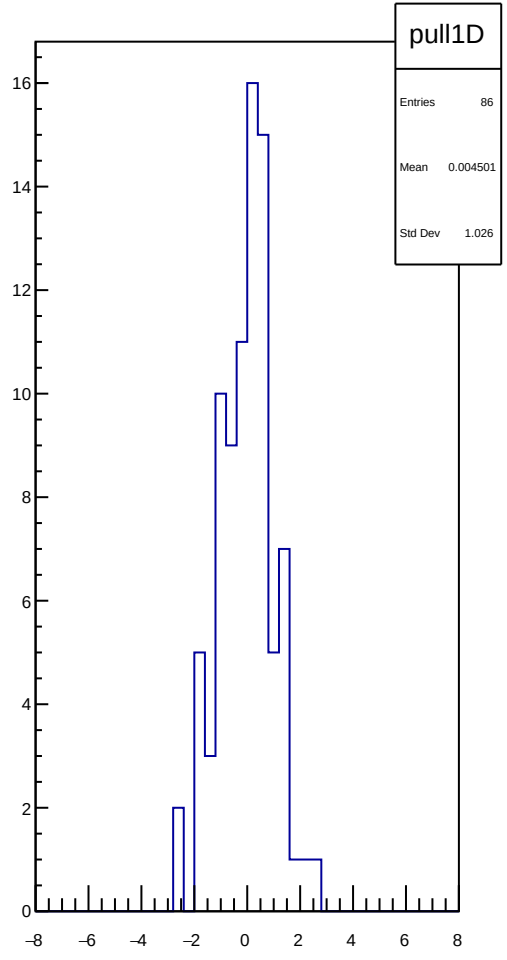

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 2461 / 85
p0 2186 ± 1.719
2500
2400
2300
2200
2100
2000
1900

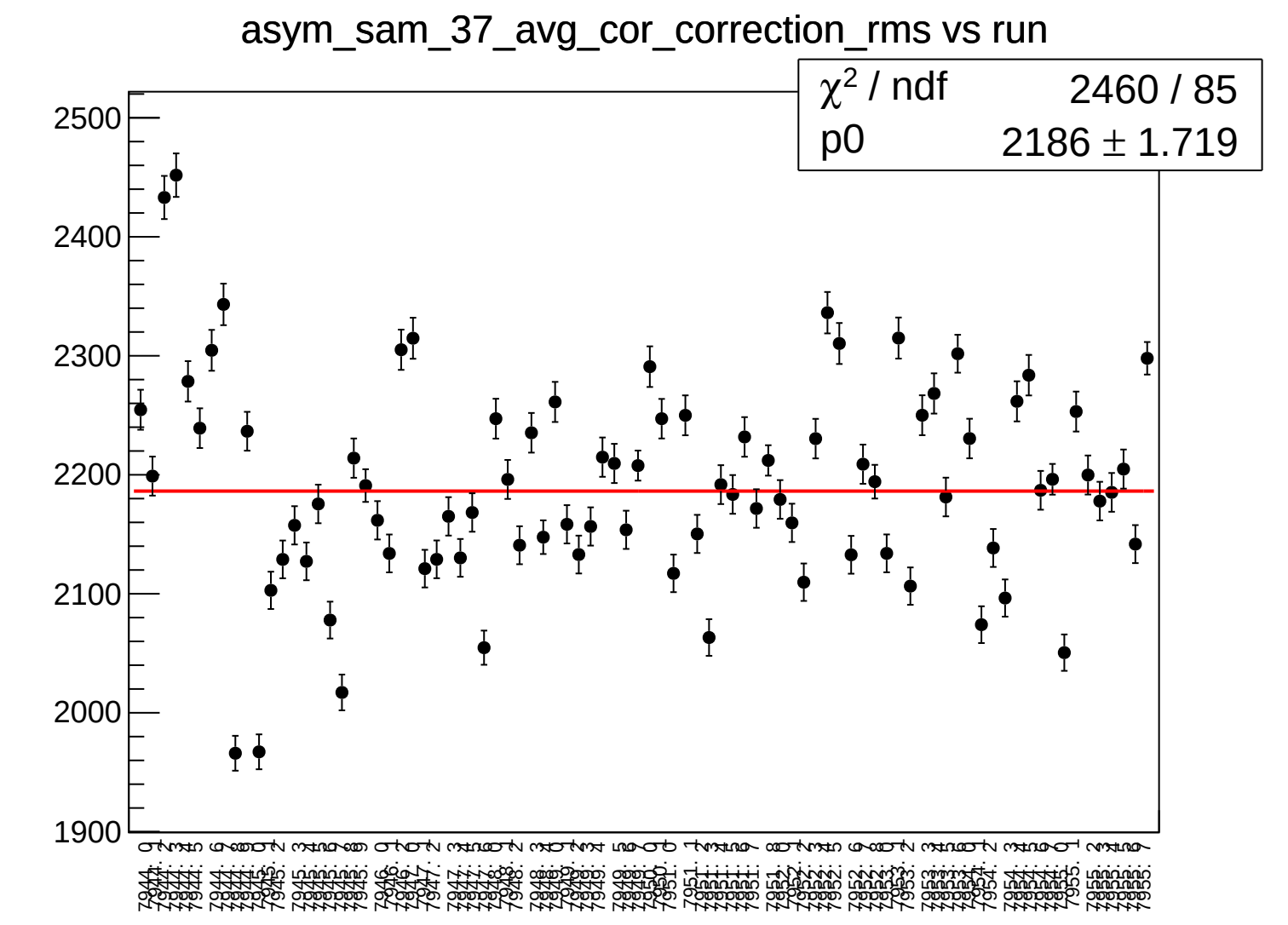

cor_asym_sam_37_avg_mean vs run
χ² / ndf 85.66 / 85
p0 118.6 ± 272.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −524.5
Std Dev 0
2
1
0
−1
−2

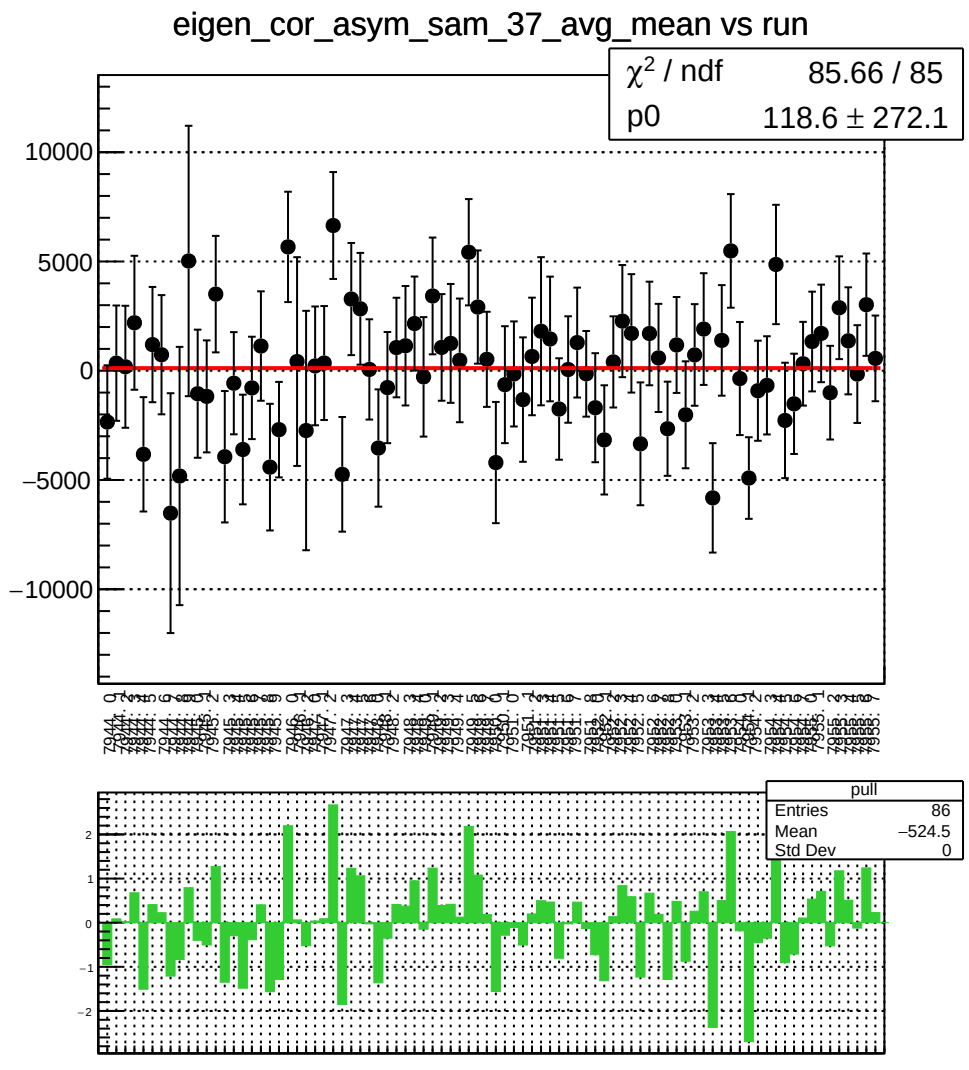

pull1D
Entries 86
Mean −0.003431
Std Dev 0.998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

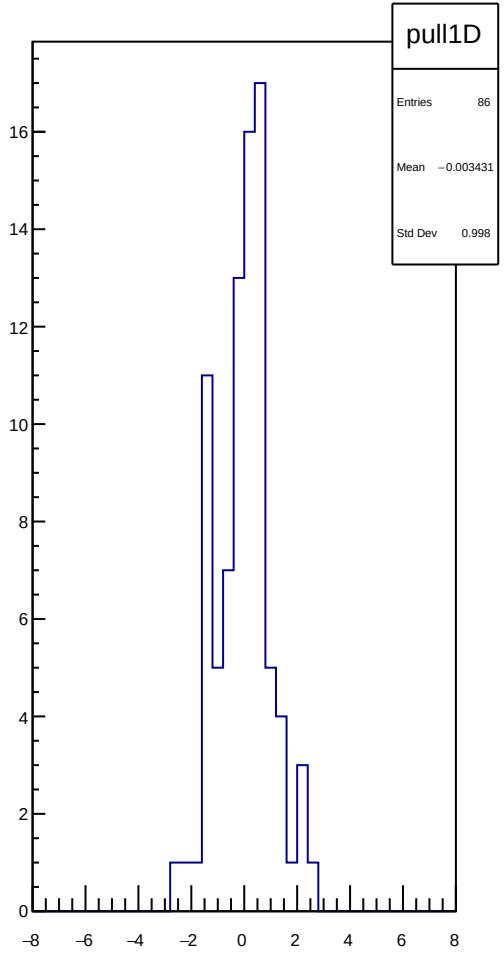

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.992e+04 / 85
p0 241.8 ± 0.1924
600
500
400
300
200

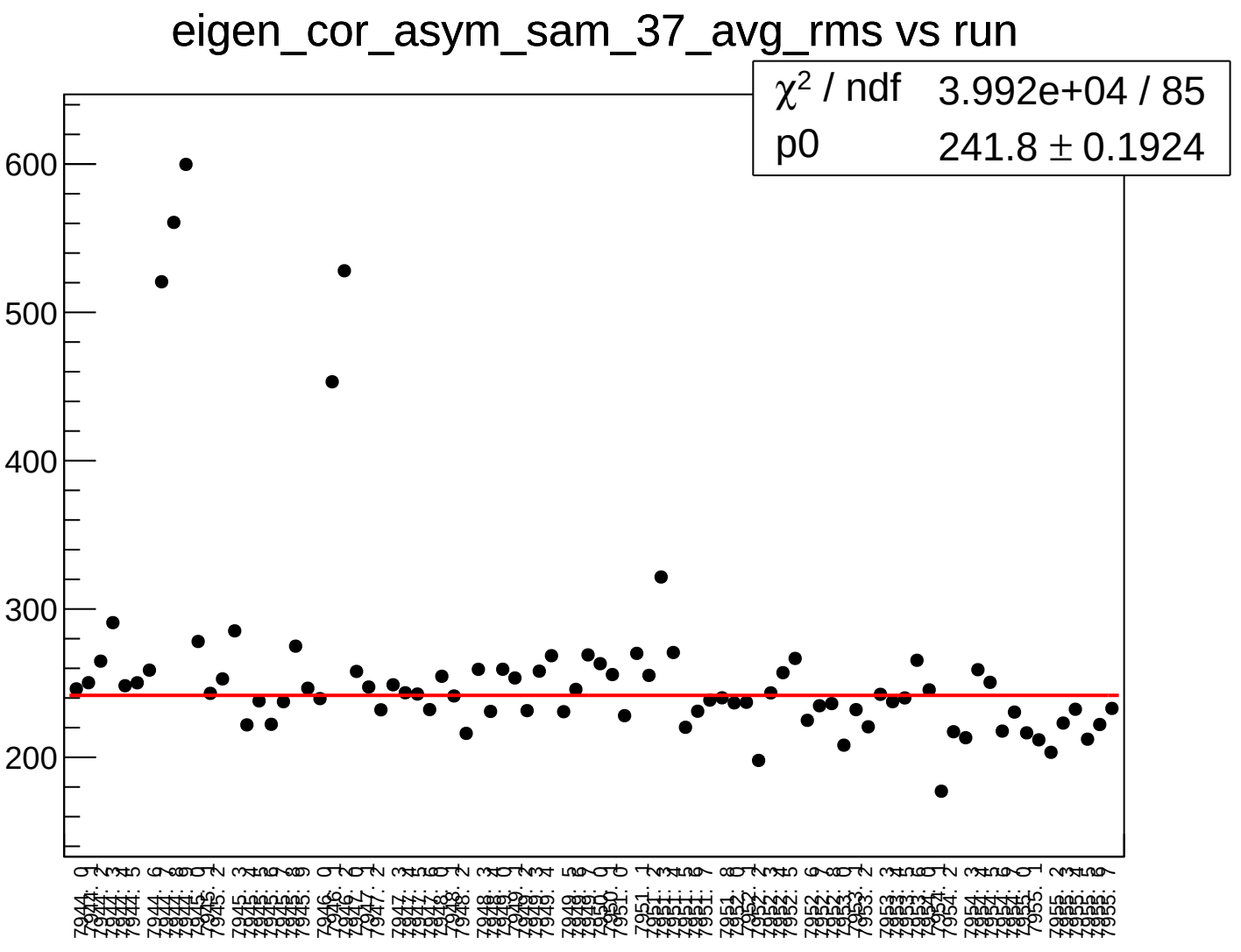

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 90.61 / 85
p0 −539.9 ± 2432
×10³
100
50
0
−50
−100
pull
Entries 86
Mean 888.9
Std Dev 0
2
1
0
−1
−2

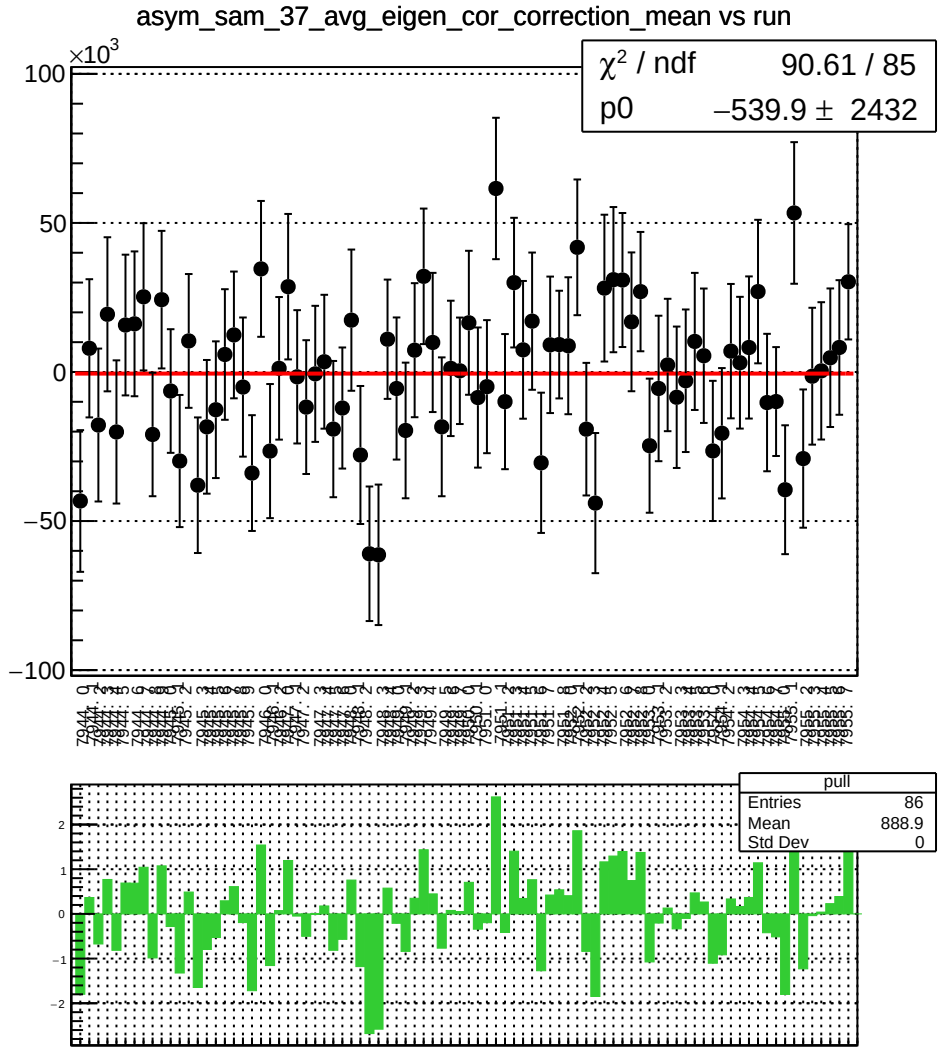

pull1D
Entries 86
Mean 0.004501
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

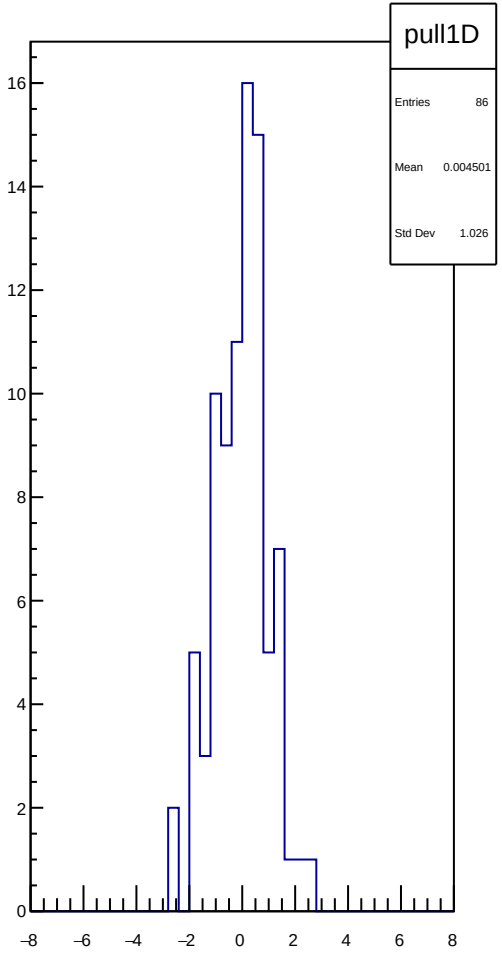

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2460 / 85
p0 2186 ± 1.719
2500
2400
2300
2200
2100
2000
1900

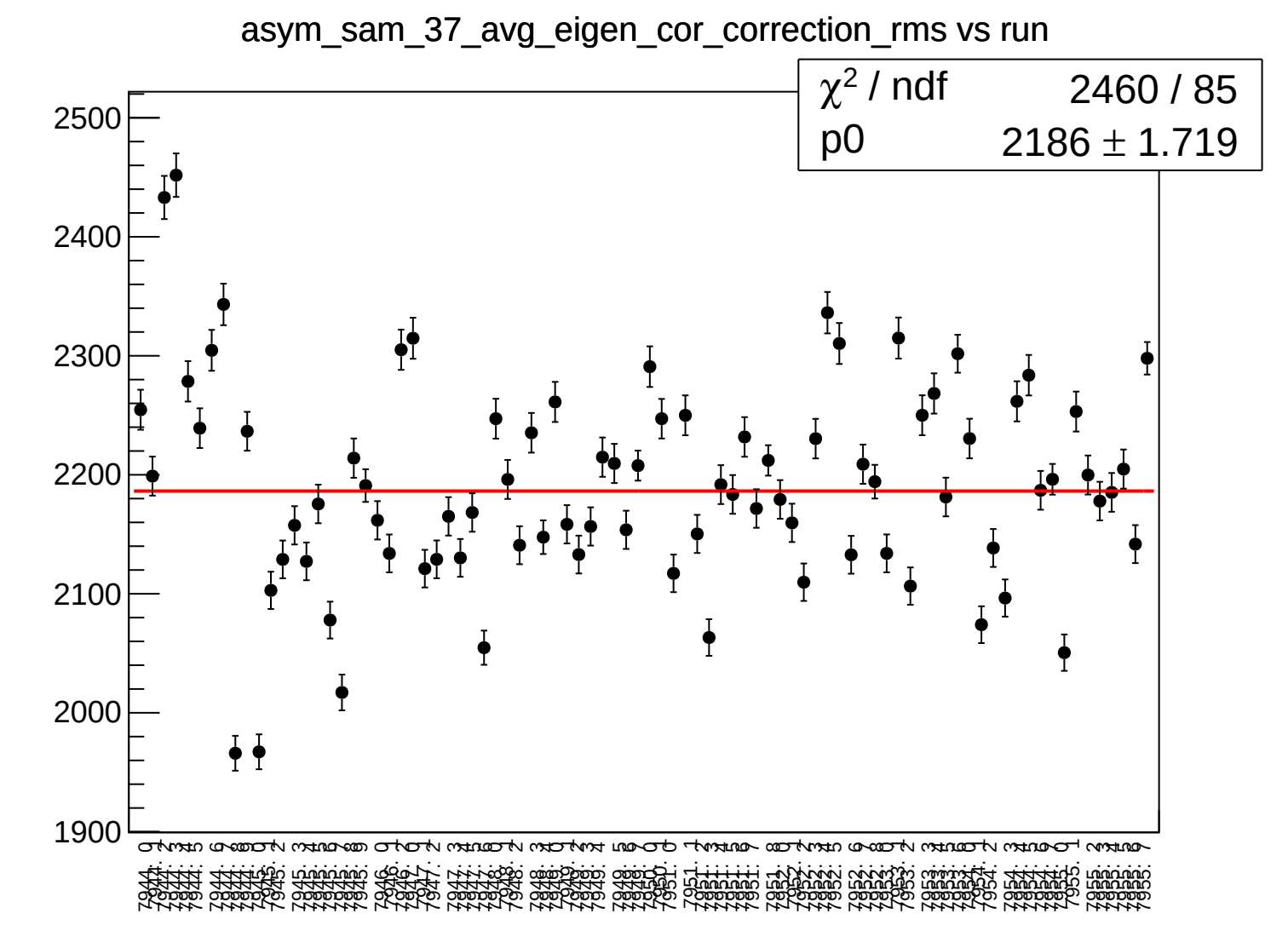

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 85.66 / 85
p0 118.6 ± 272.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −524.5
Std Dev 0
2
1
0
−1
−2

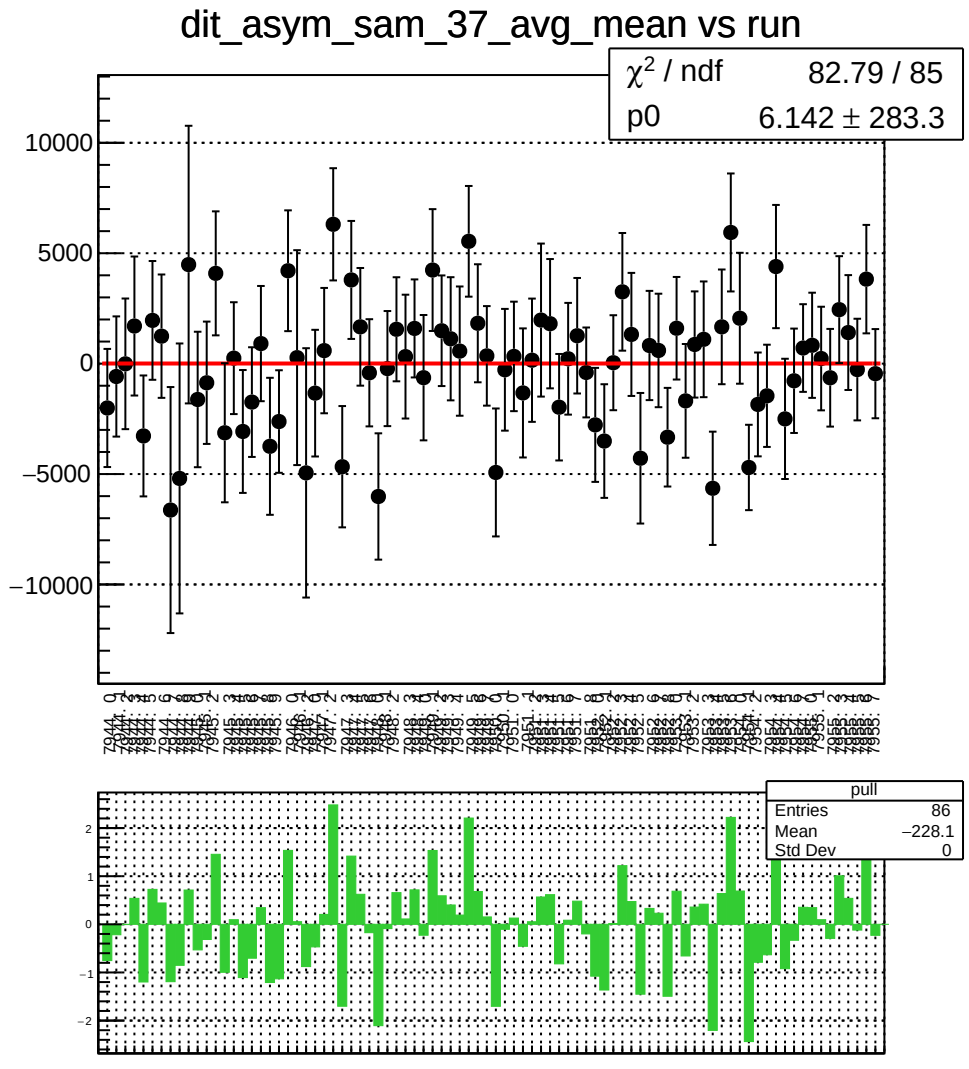

pull1D
Entries 86
Mean −0.003431
Std Dev 0.998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

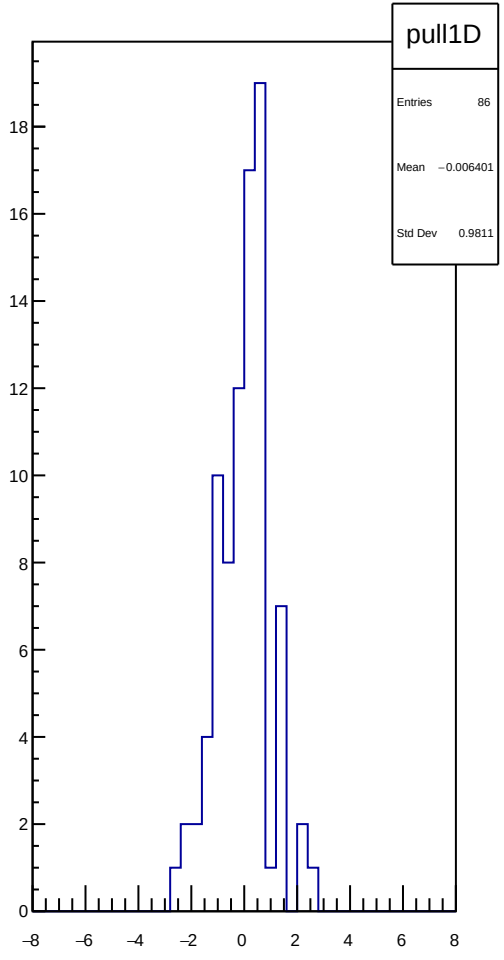

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 3.992e+04 / 85
p0 241.8 ± 0.1924
600
500
400
300
200

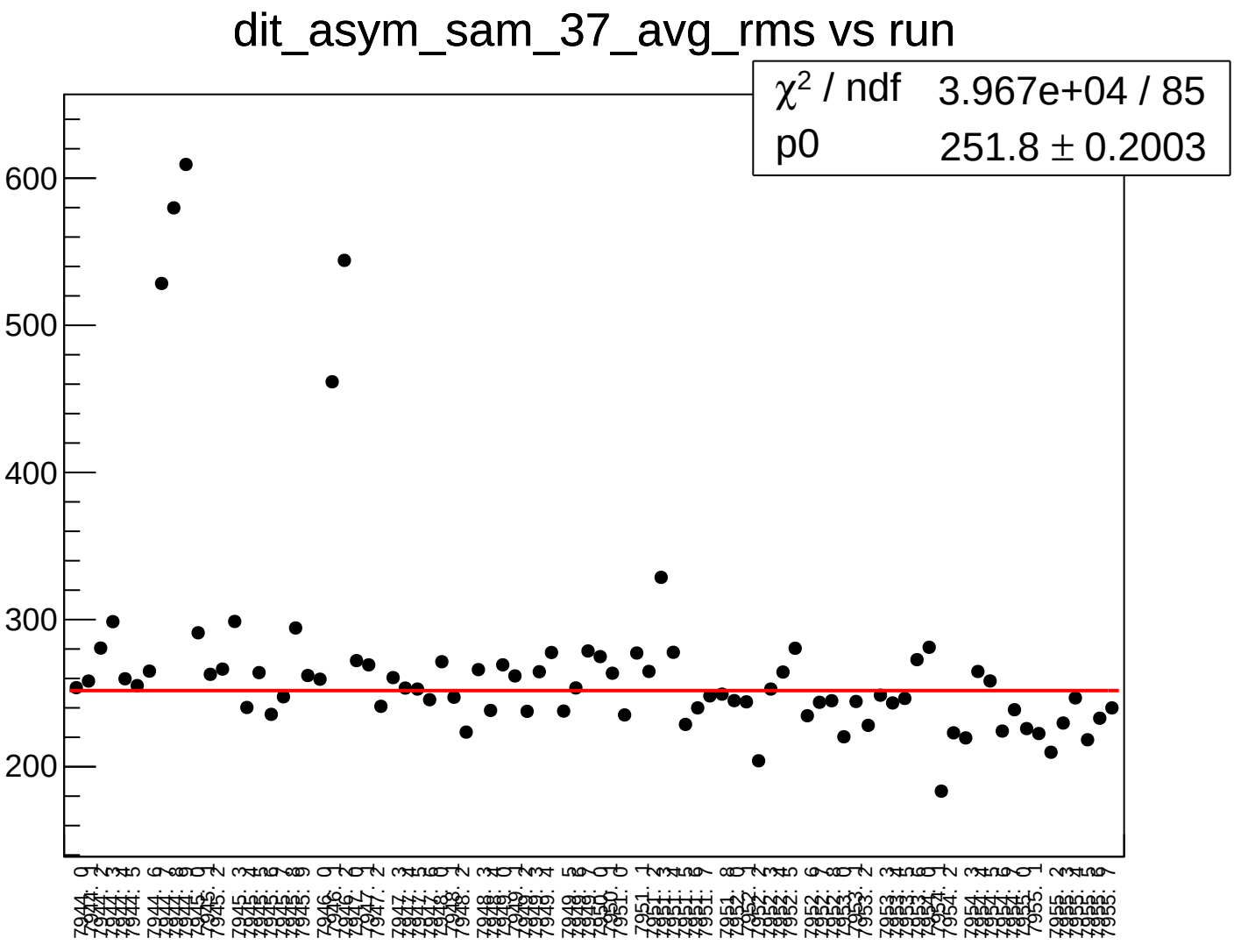

asym_sam_37_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.61 / 85
p0 −539.9 ± 2432
pull
Entries 86
Mean 888.9
Std Dev 0

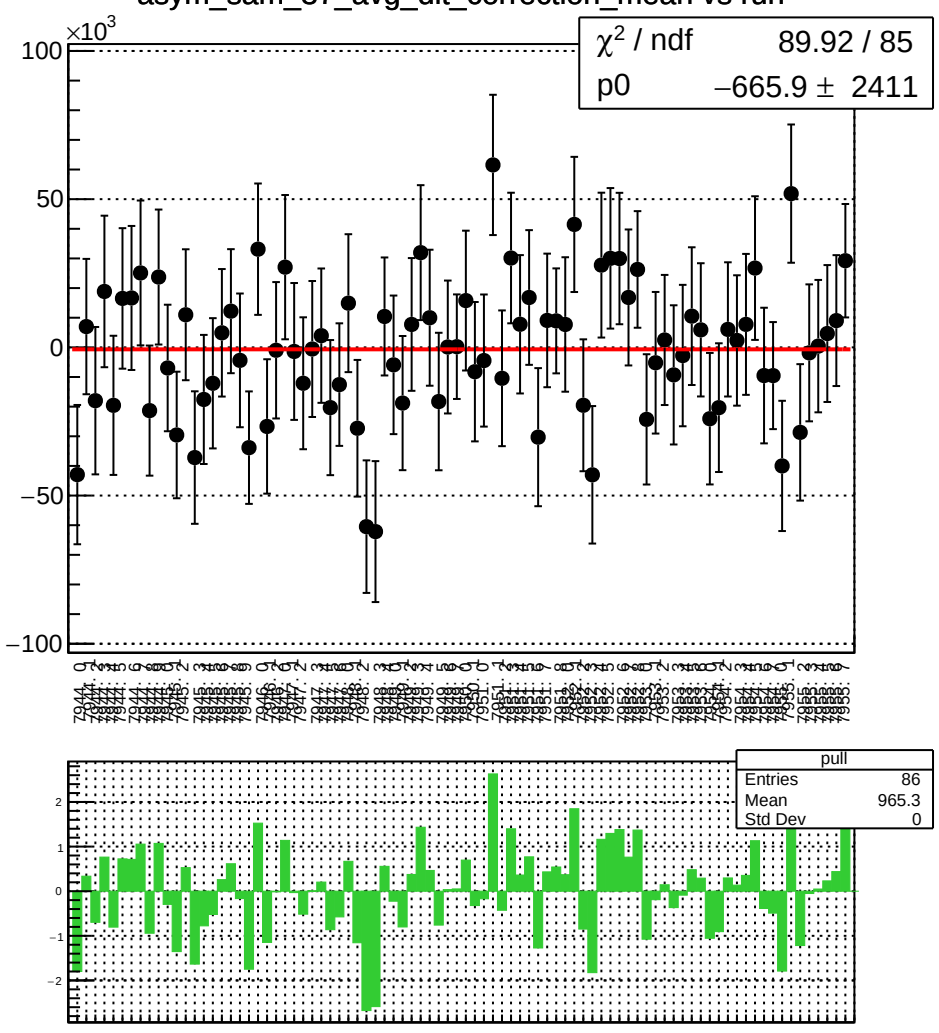

pull1D
Entries 86
Mean 0.004501
Std Dev 1.026

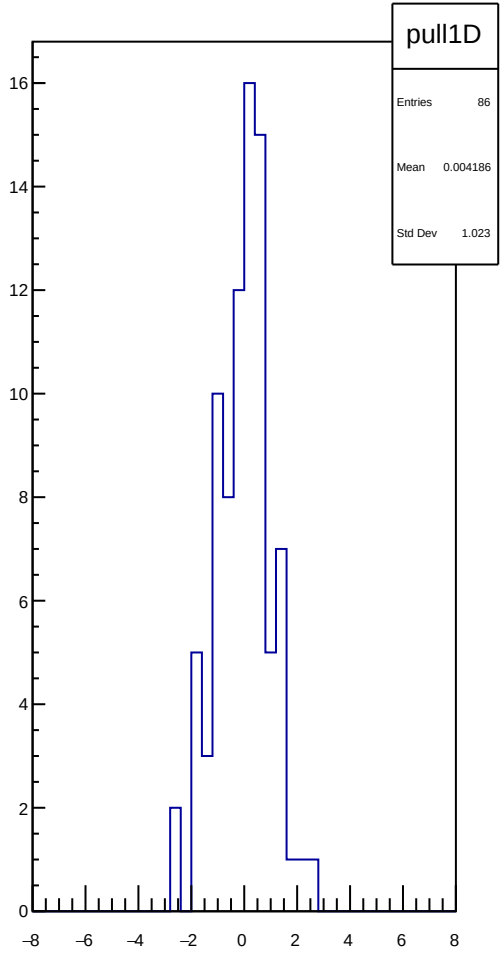

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 2460 / 85
p0 2186 ± 1.719
2500
2400
2300
2200
2100
2000
1900

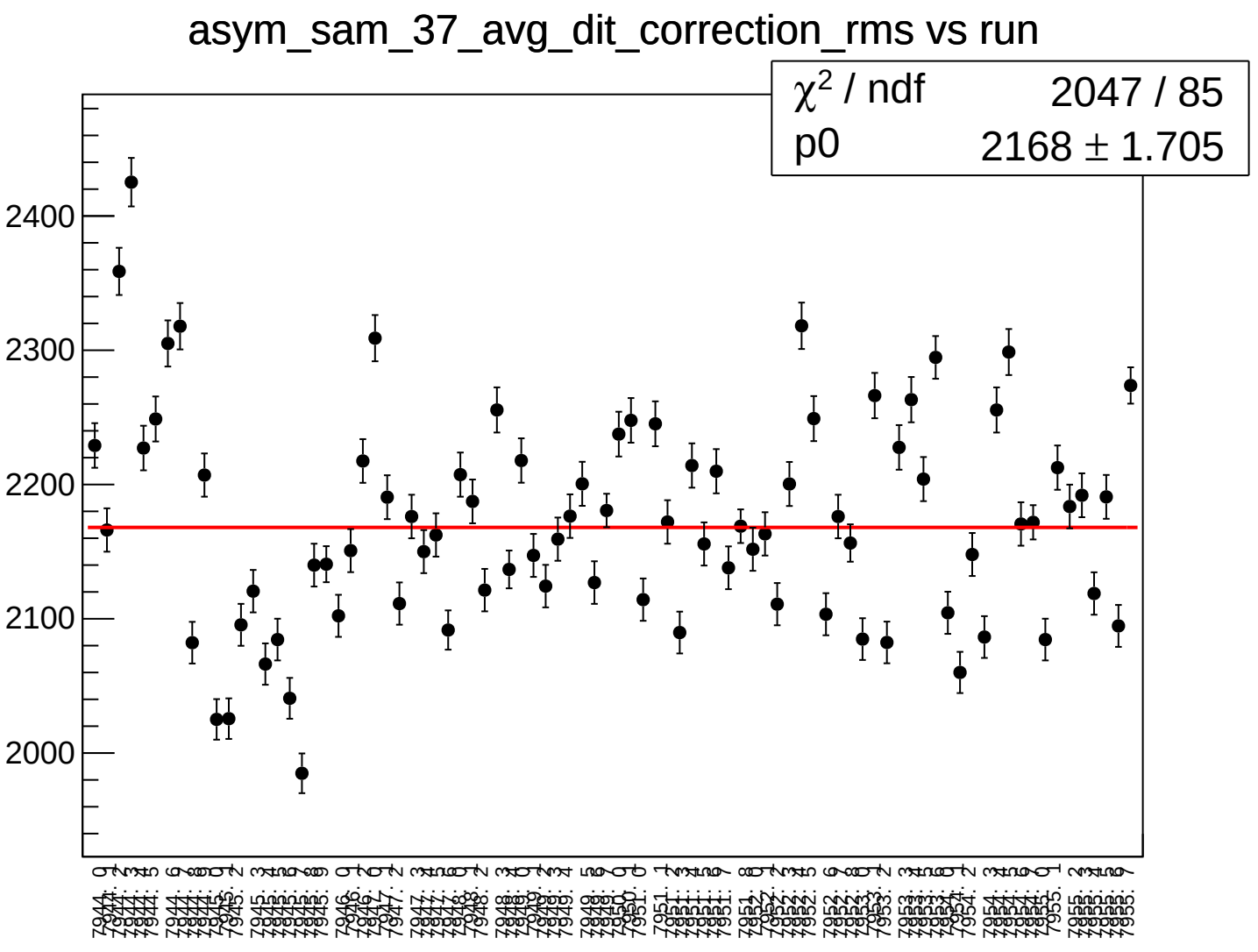

dit_asym_sam_37_avg_mean vs run
χ^2 / ndf 82.79 / 85
p0 6.142 ± 283.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −228.1
Std Dev 0
2
1
0
−1
−2

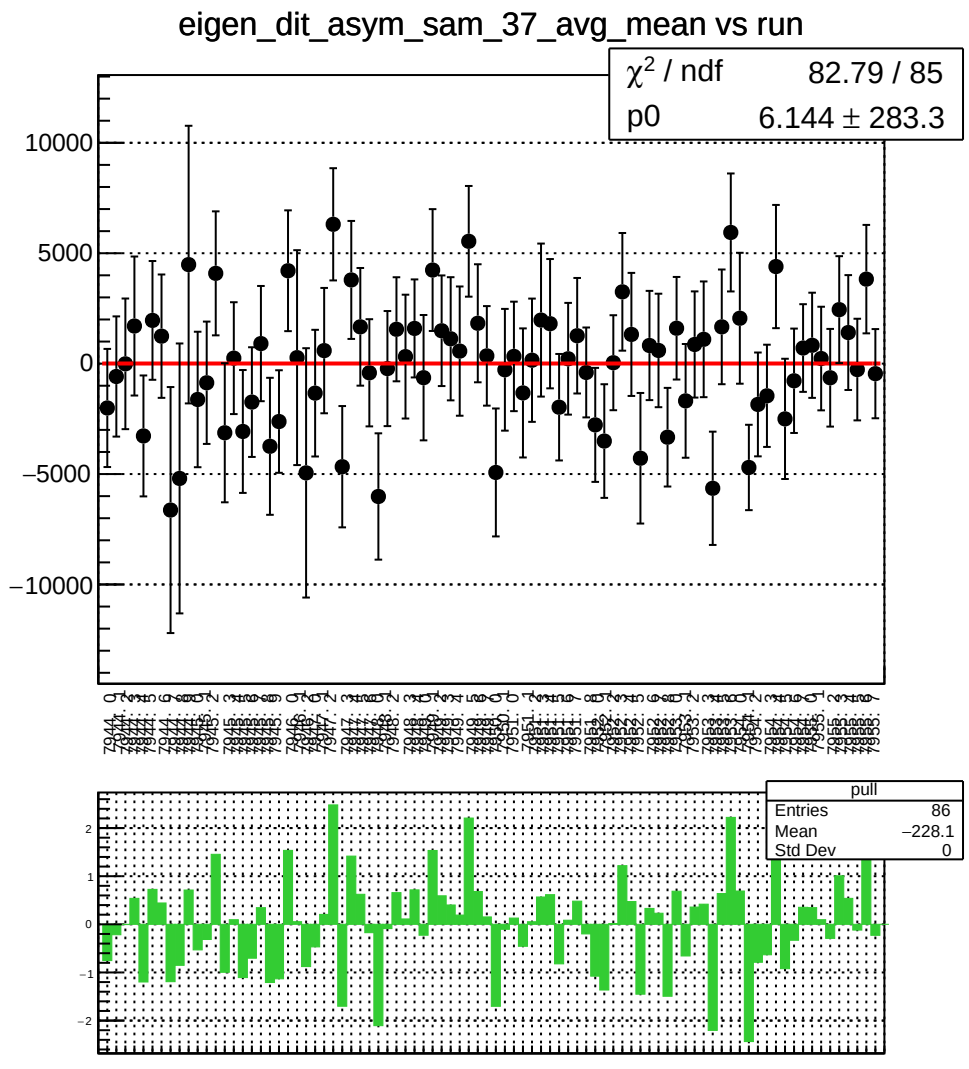

pull1D
Entries 86
Mean −0.006401
Std Dev 0.9811
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

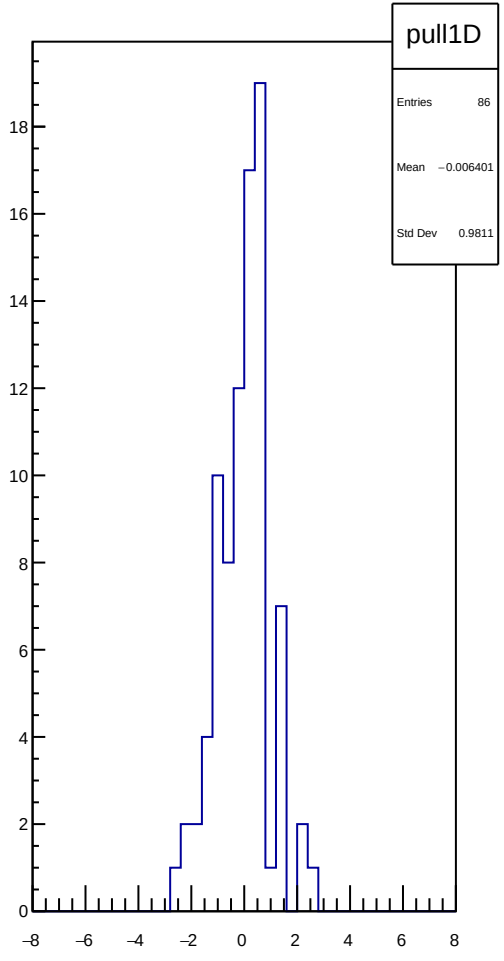

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.967e+04 / 85
p0 251.8 ± 0.2003
600
500
400
300
200

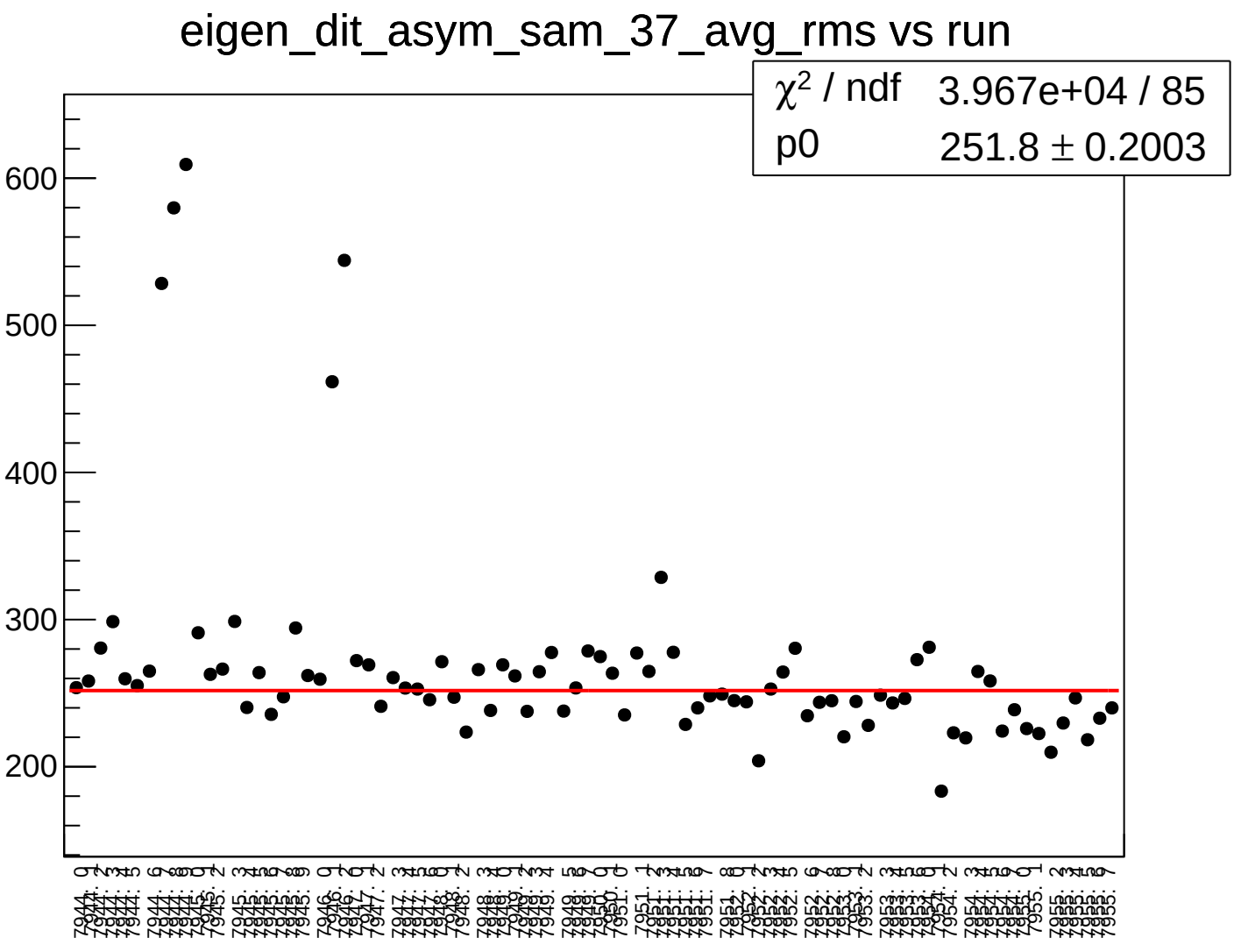

asym_sam_37_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.92 / 85
p0 −665.9 ± 2411
pull
Entries 86
Mean 965.3
Std Dev 0

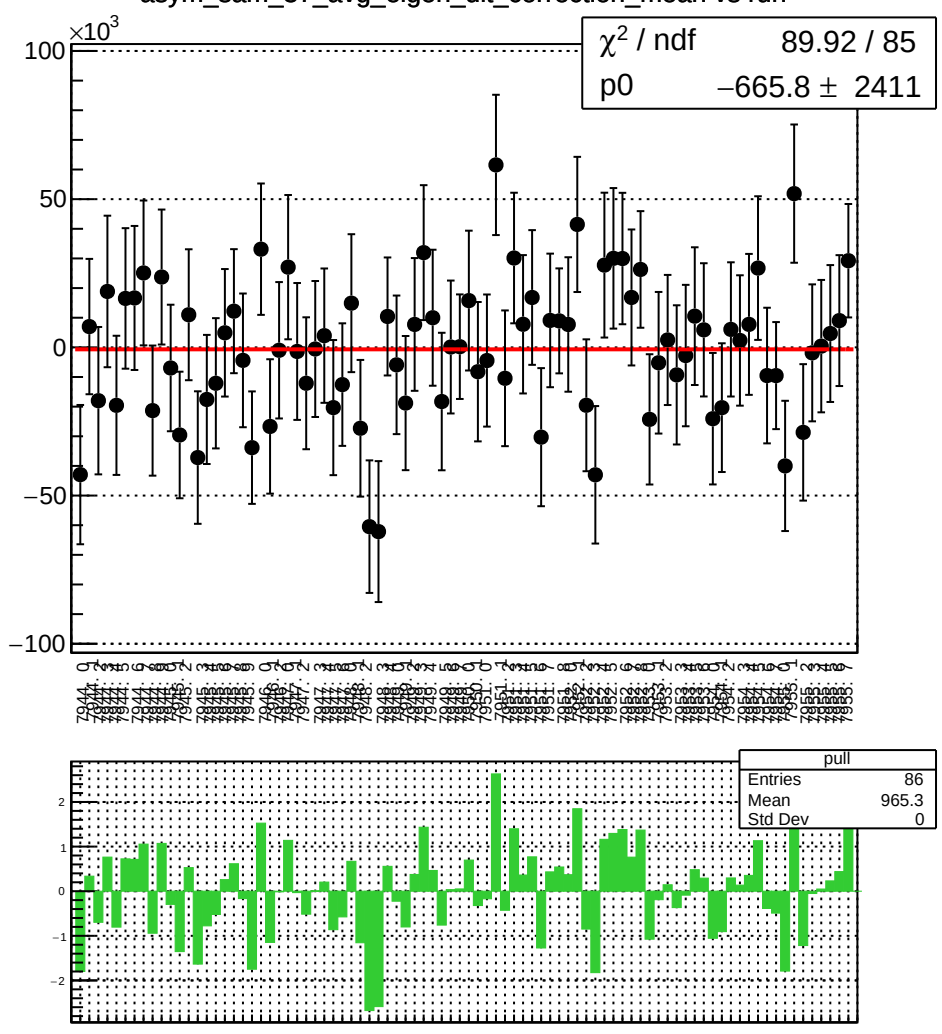

pull1D
Entries 86
Mean 0.004186
Std Dev 1.023

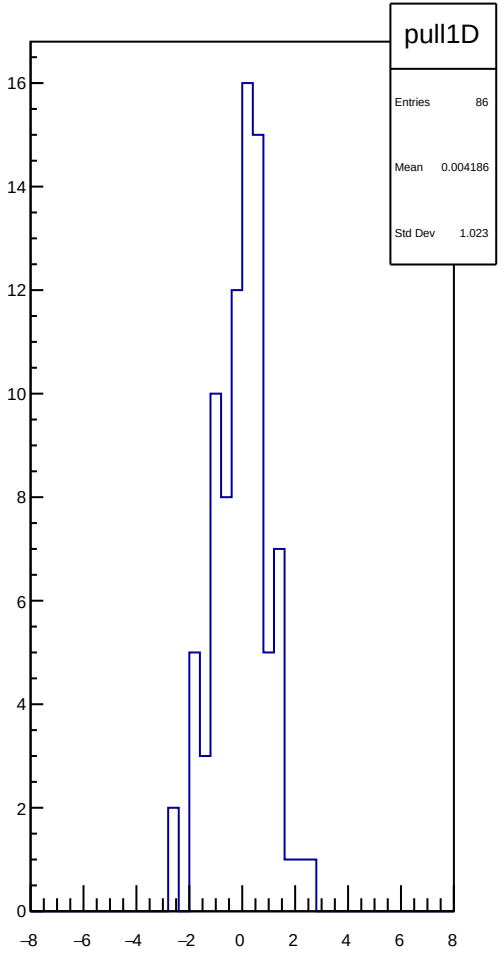

asym_sam_37_avg_dit_correction_rms vs run
χ^2 / ndf 2047 / 85
p0 2168 ± 1.705
2400
2300
2200
2100
2000

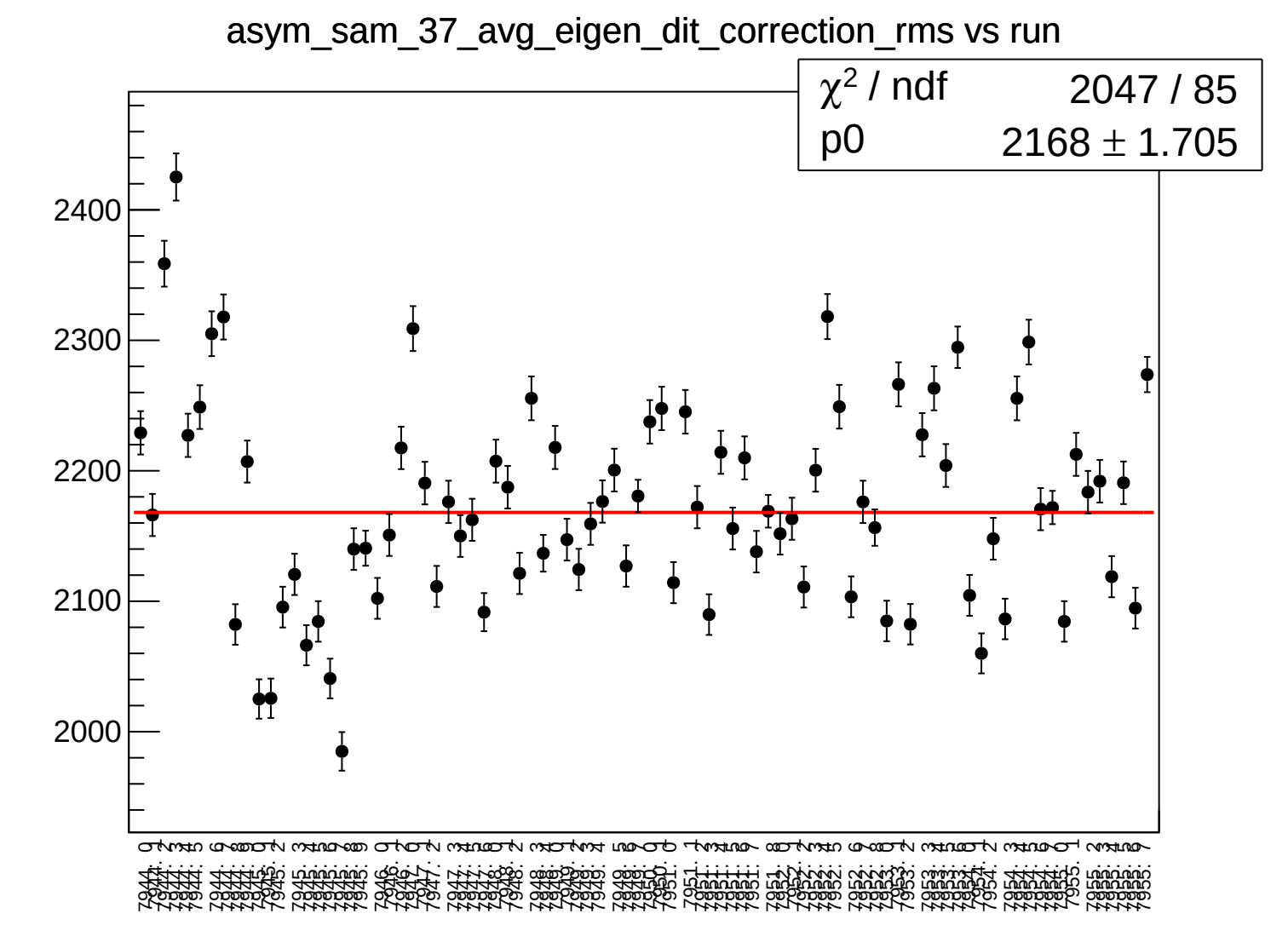

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 82.79 / 85
p0 6.144 ± 283.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −228.1
Std Dev 0
2
1
0
−1
−2

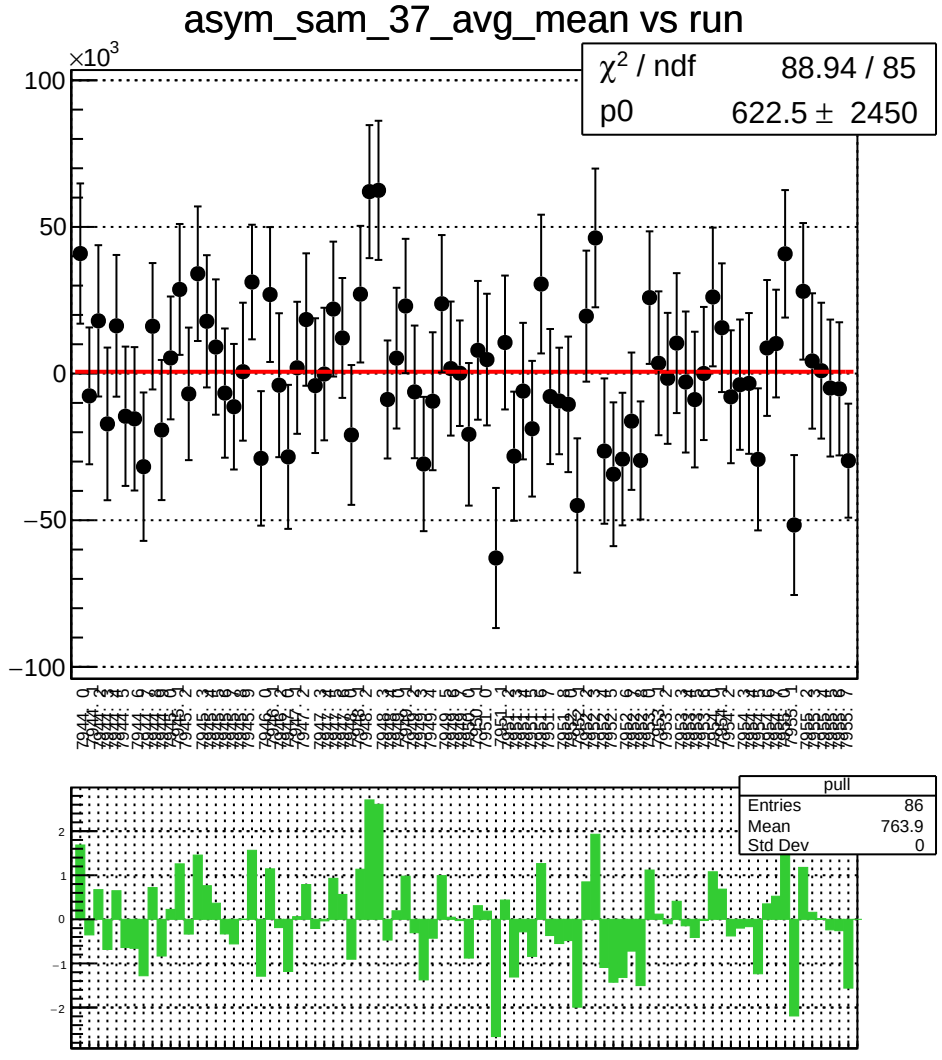

pull1D
Entries 86
Mean −0.006401
Std Dev 0.9811
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

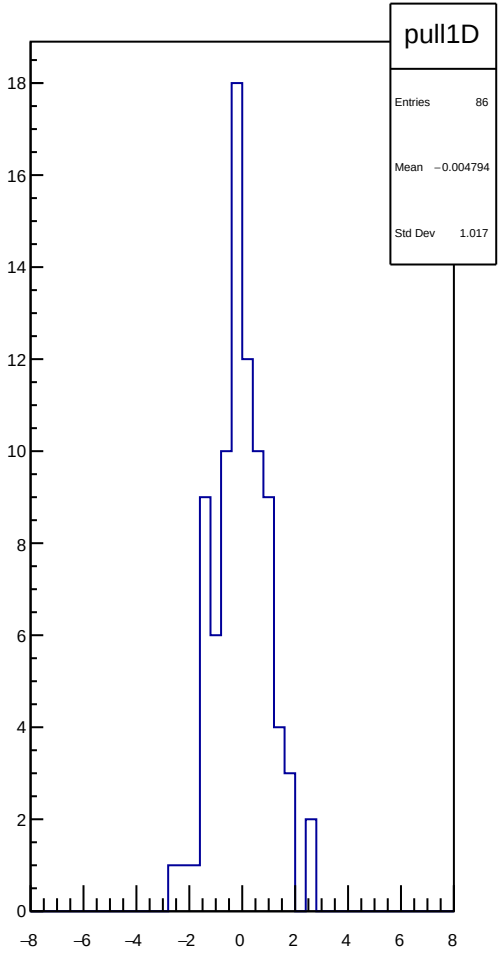

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.967e+04 / 85
p0 251.8 ± 0.2003
600
500
400
300
200

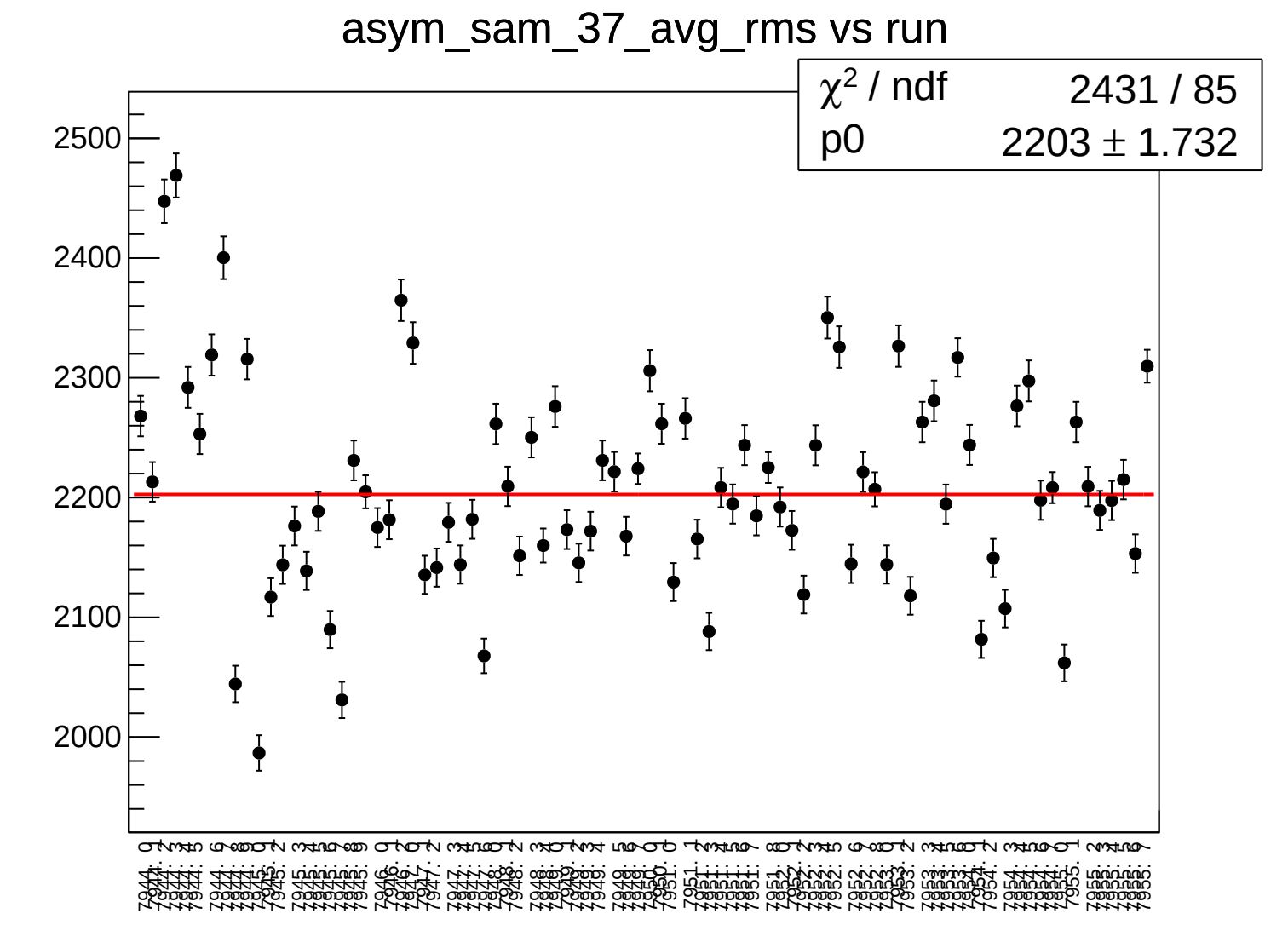

asym_sam_37_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.92 / 85
p0 −665.8 ± 2411
pull
Entries 86
Mean 965.3
Std Dev 0

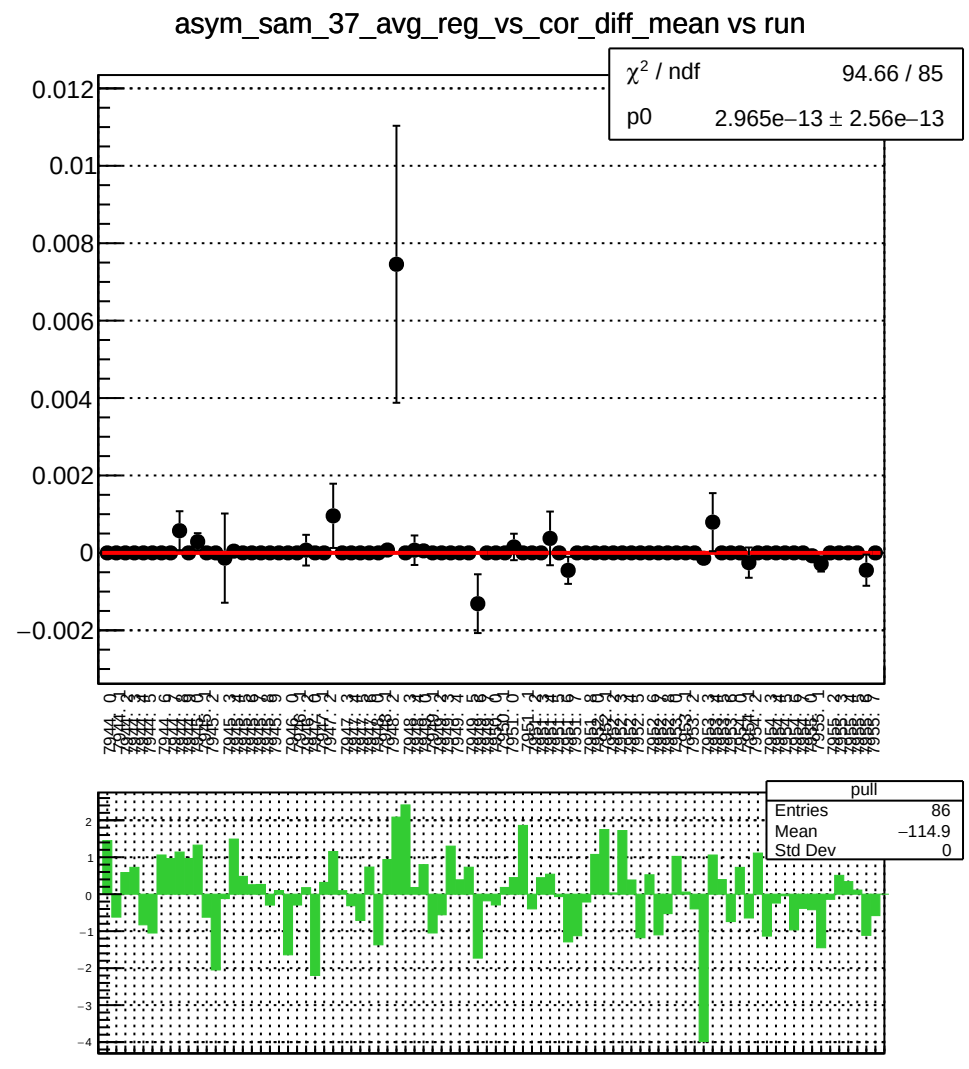

pull1D
Entries 86
Mean 0.004186
Std Dev 1.023

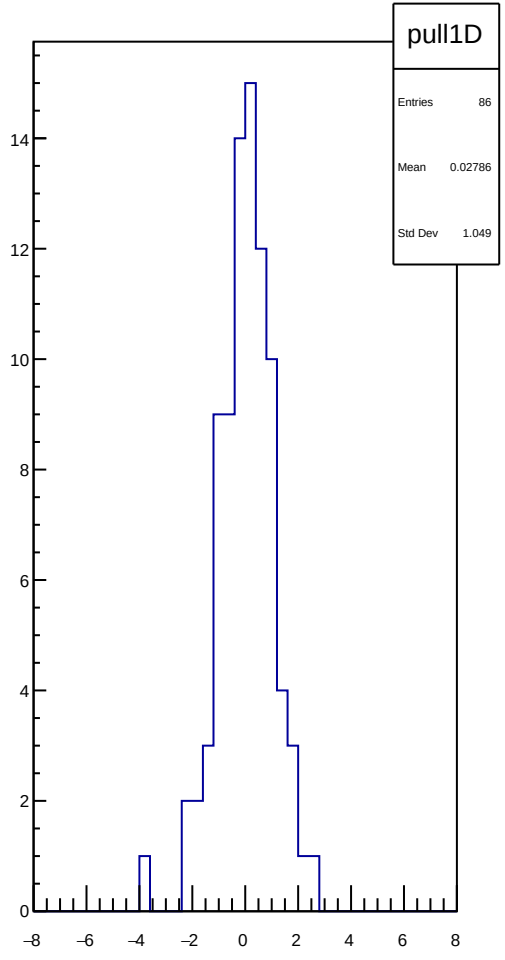

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 2047 / 85
p0 2168 ± 1.705
2400
2300
2200
2100
2000

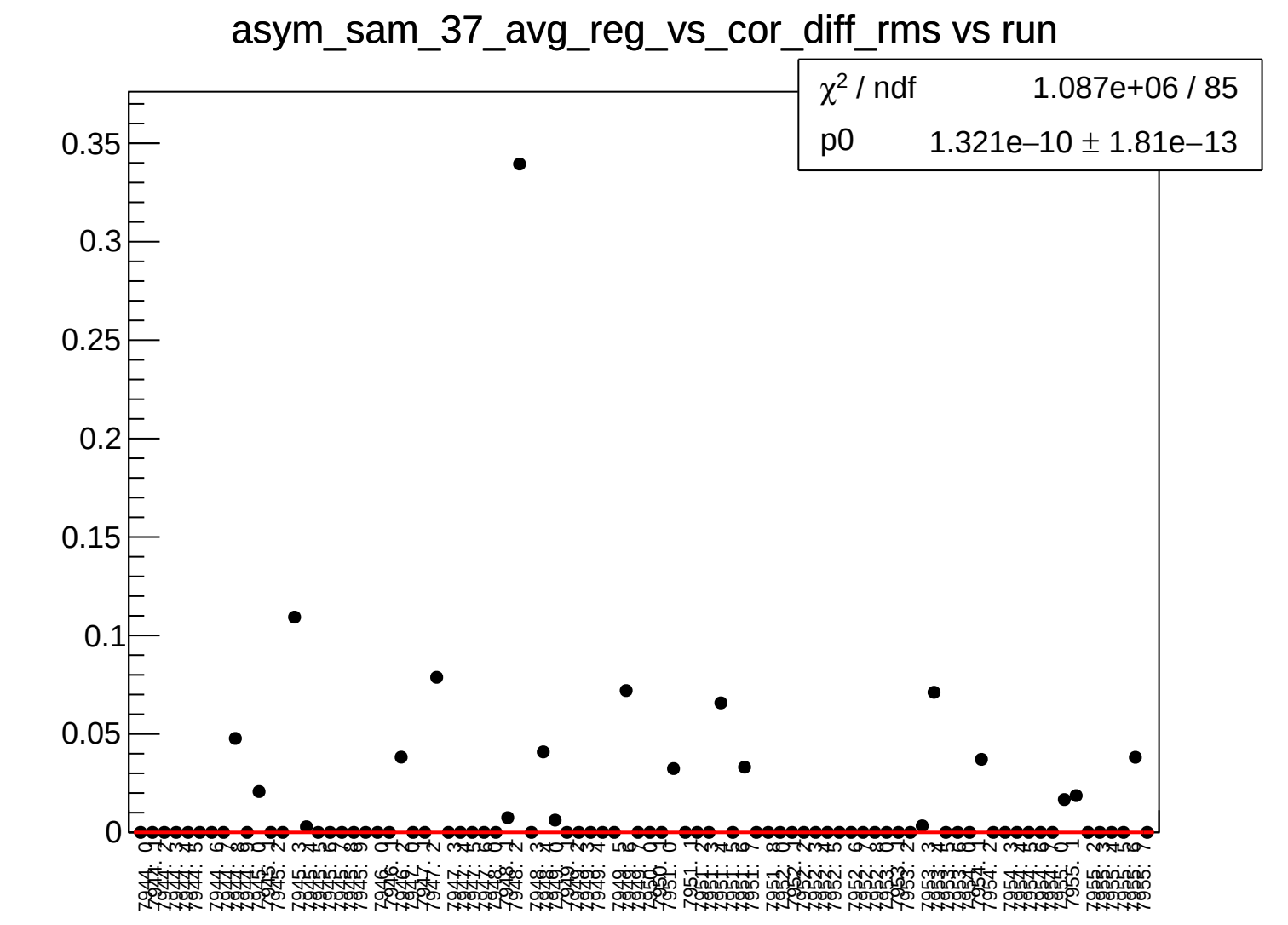

asym_sam_37_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 88.94 / 85
p0 622.5 ± 2450
pull
Entries 86
Mean 763.9
Std Dev 0
2
1
0
−1
−2

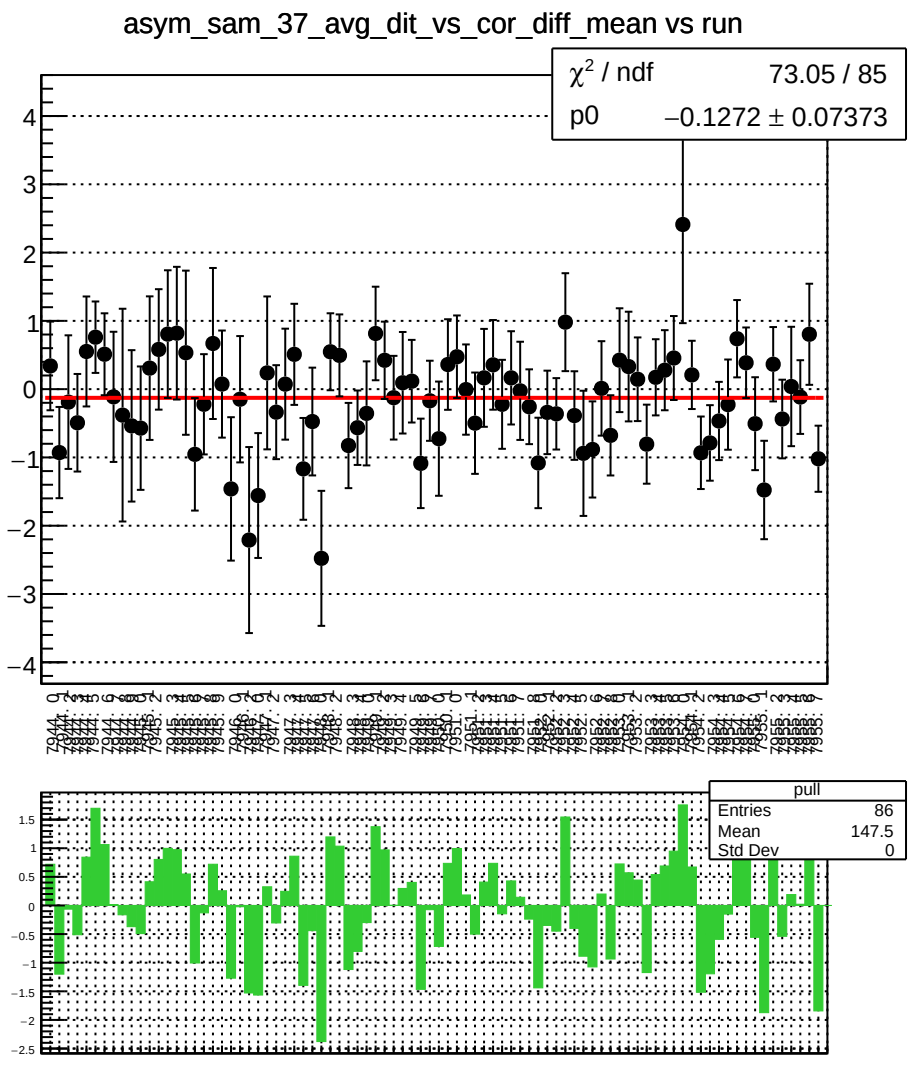

pull1D
Entries 86
Mean −0.004794
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

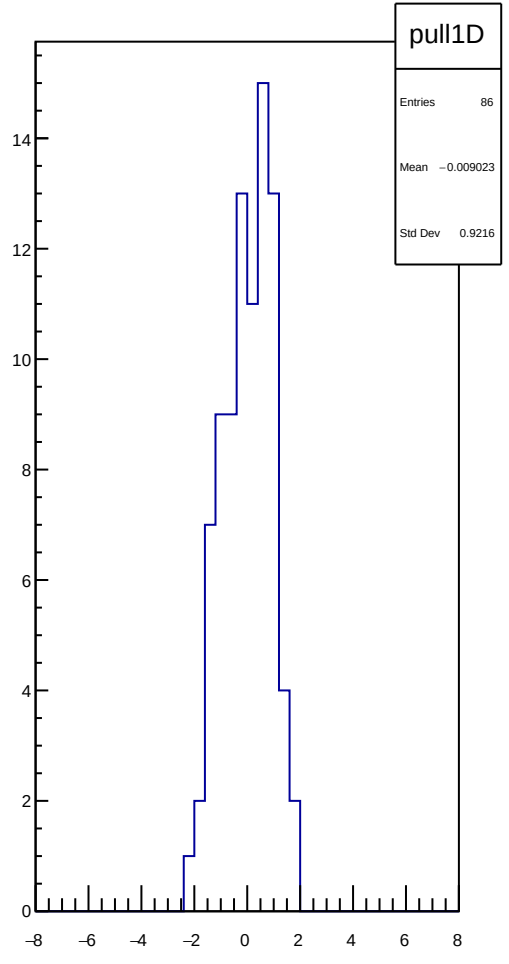

asym_sam_37_avg_rms vs run
χ^2 / ndf 2431 / 85
p0 2203 ± 1.732
2500
2400
2300
2200
2100
2000

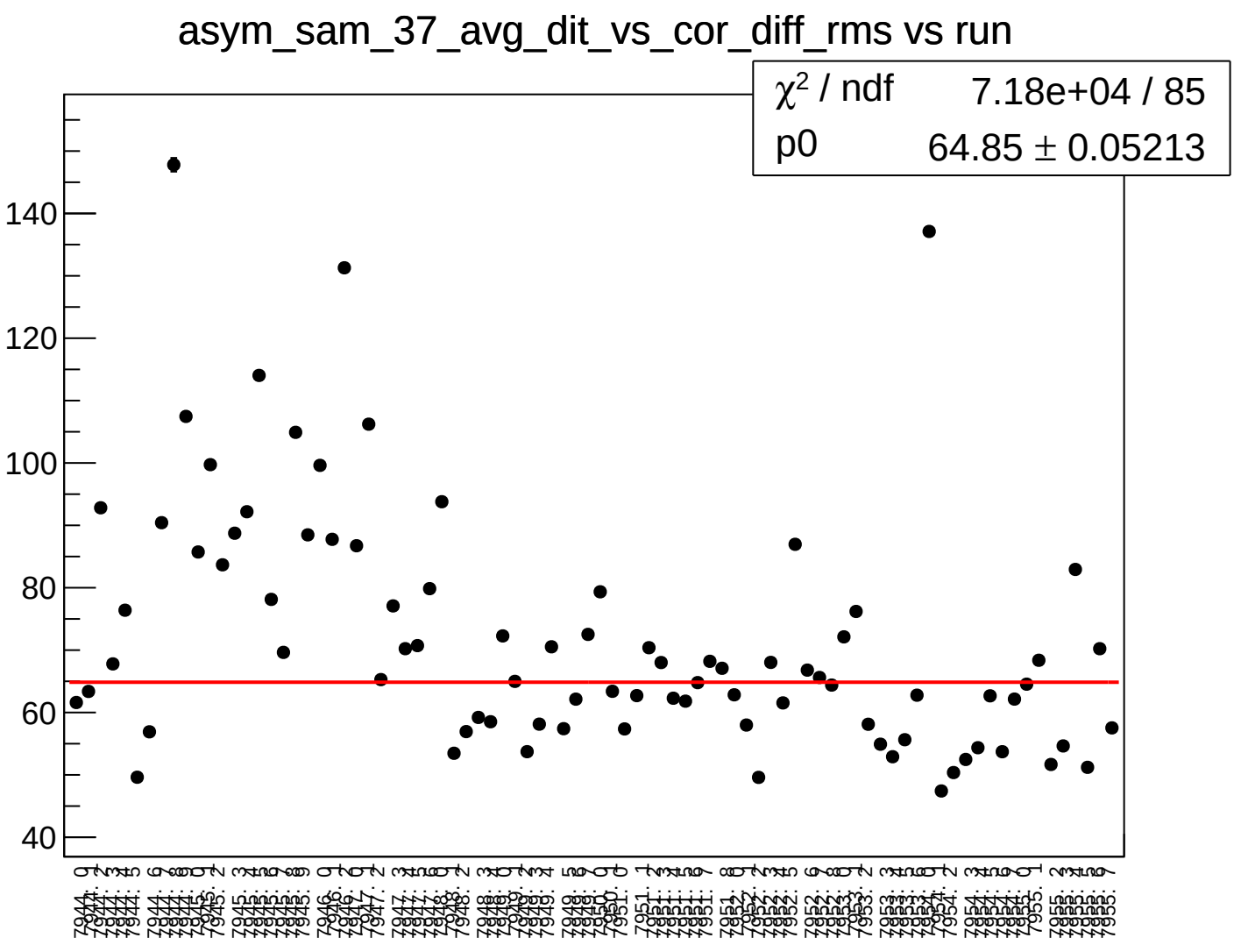

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.66 / 85
p0 2.965e−13 ± 2.56e−13
pull
Entries 86
Mean −114.9
Std Dev 0

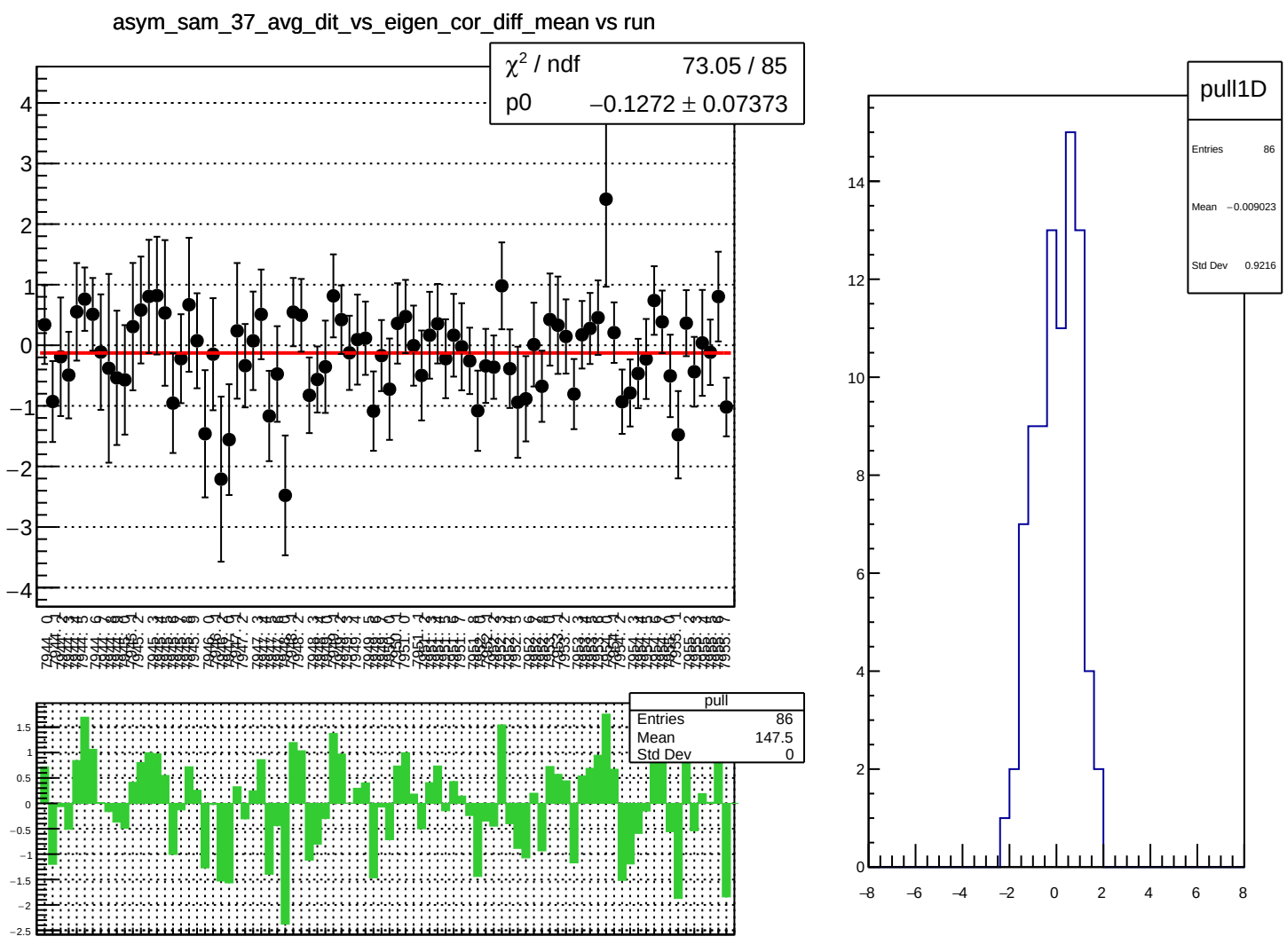

pull1D
Entries 86
Mean 0.02786
Std Dev 1.049

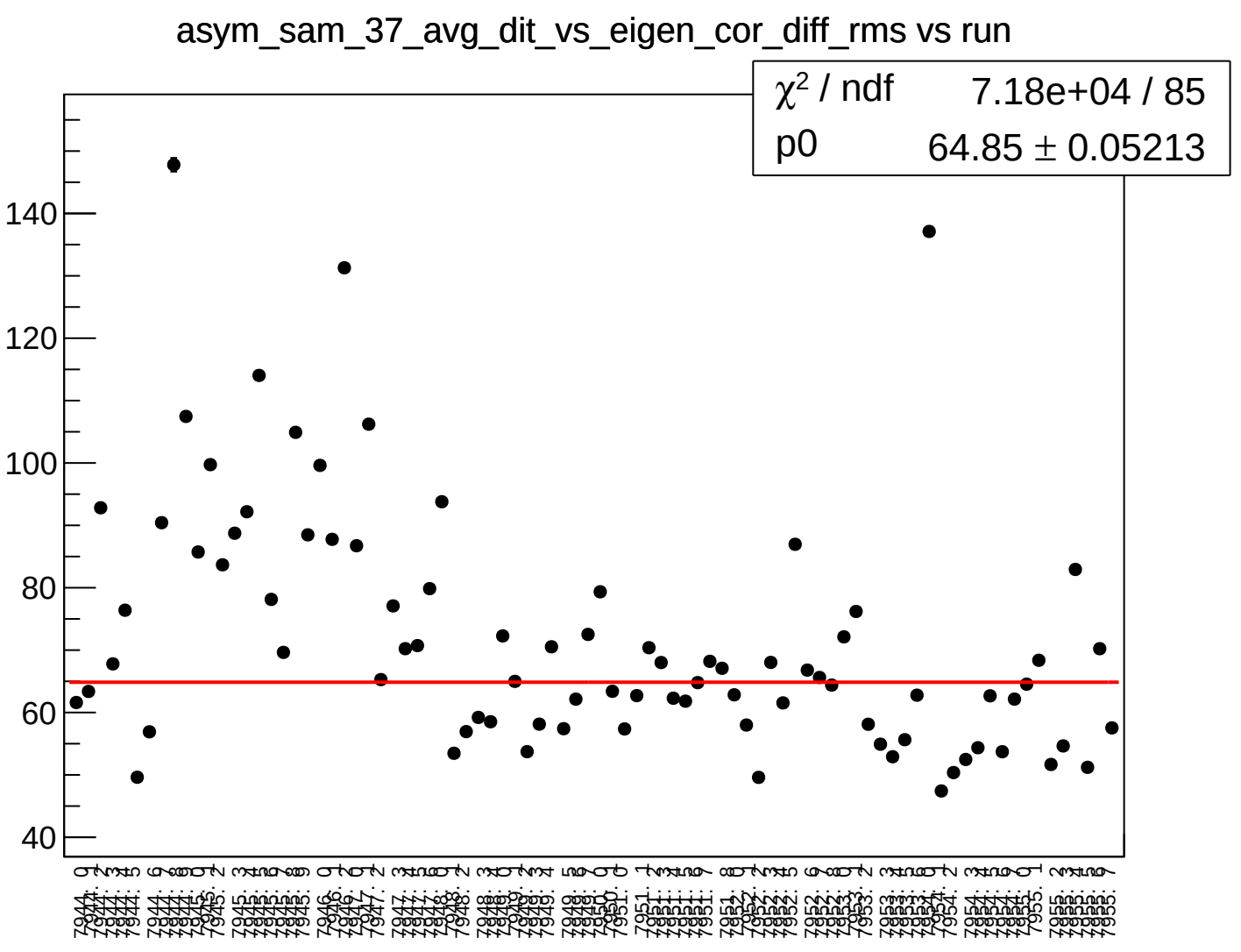

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.087e+06 / 85
p0 1.321e−10 ± 1.81e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

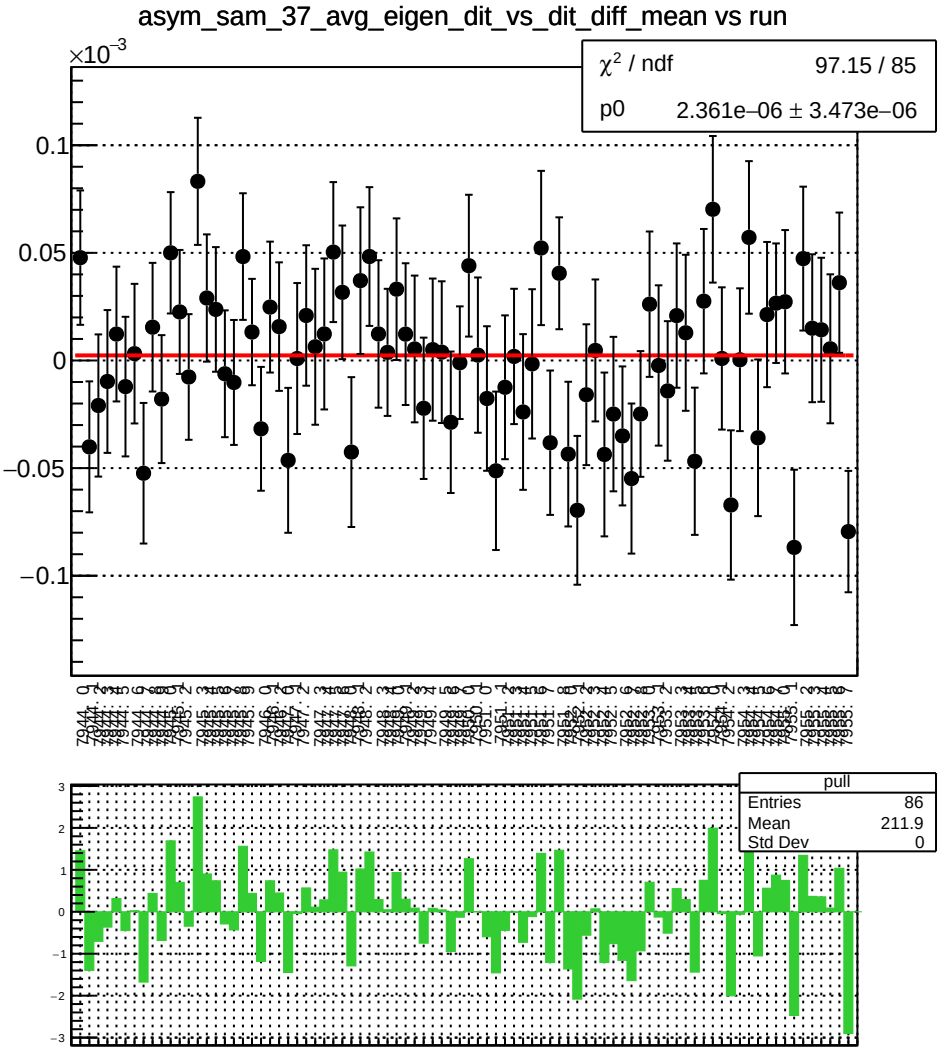

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.05 / 85
p0 −0.1272 ± 0.07373
pull
Entries 86
Mean 147.5
Std Dev 0

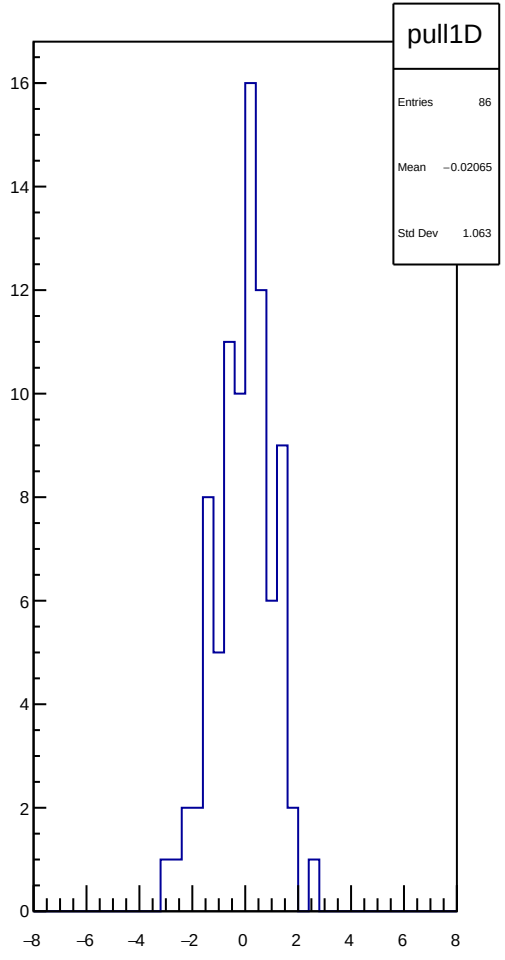

pull1D
Entries 86
Mean −0.009023
Std Dev 0.9216

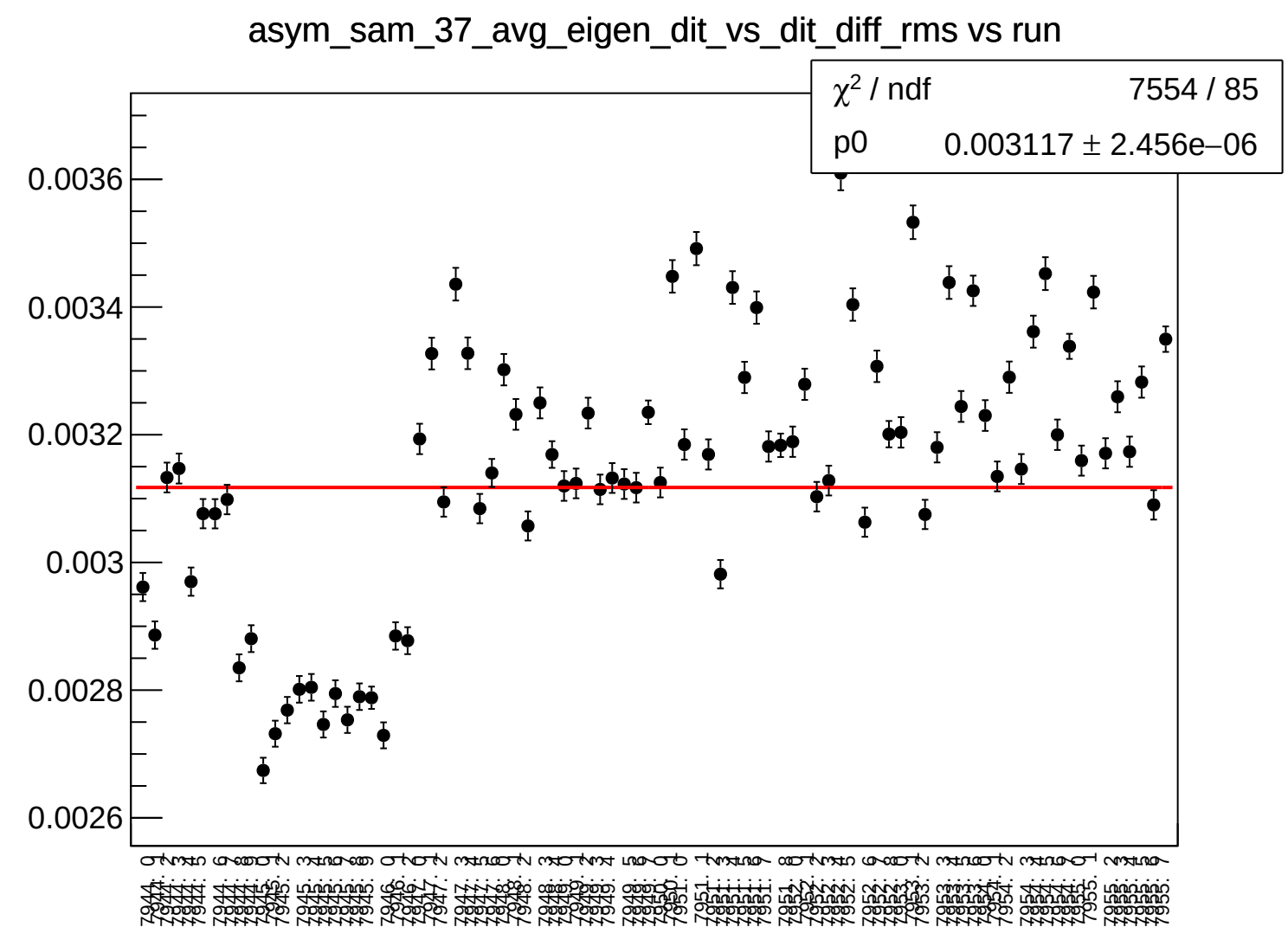

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.18e+04 / 85
p0 64.85 ± 0.05213
140
120
100
80
60
40

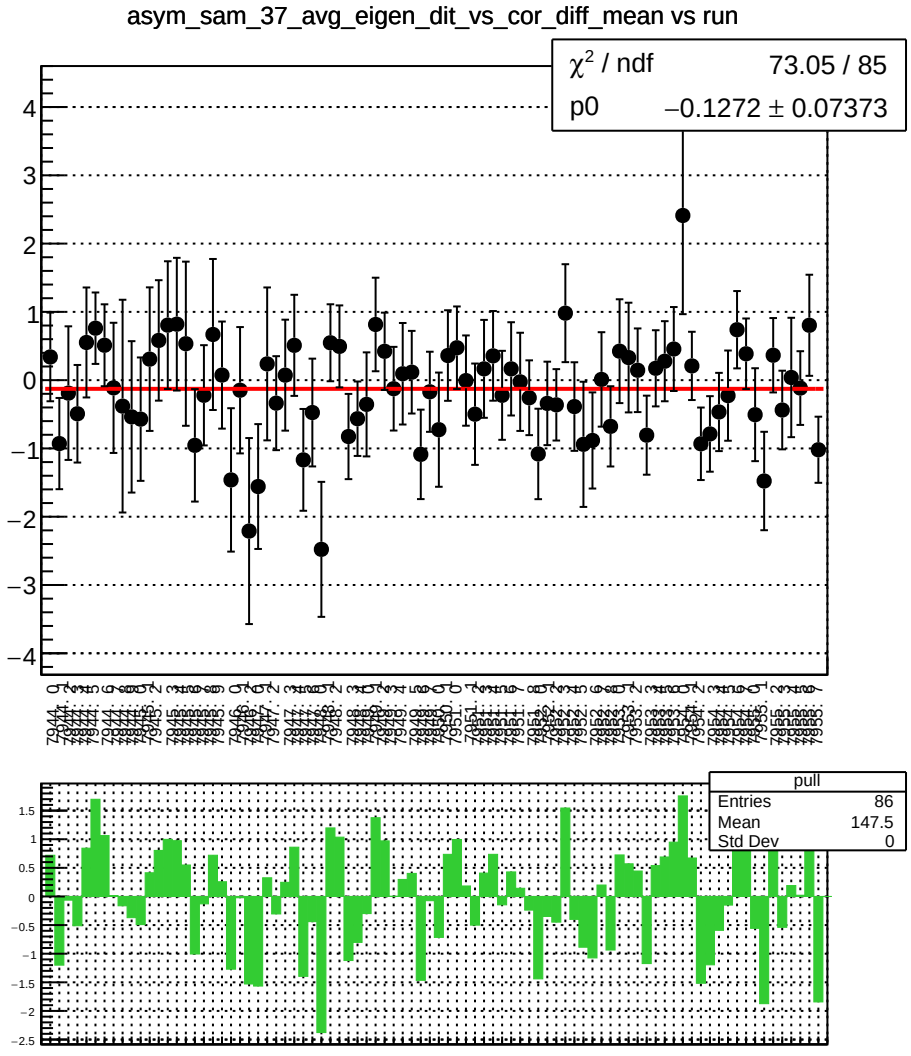

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.05 / 85
p0 −0.1272 ± 0.07373
pull
Entries 86
Mean 147.5
Std Dev 0
pull1D
Entries 86
Mean −0.009023
Std Dev 0.9216

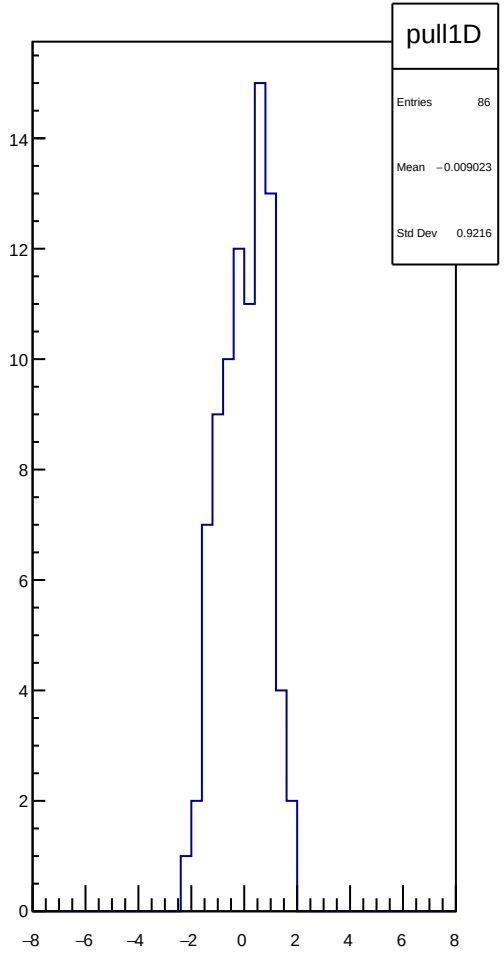

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.18e+04 / 85
p0 64.85 ± 0.05213
140
120
100
80
60
40

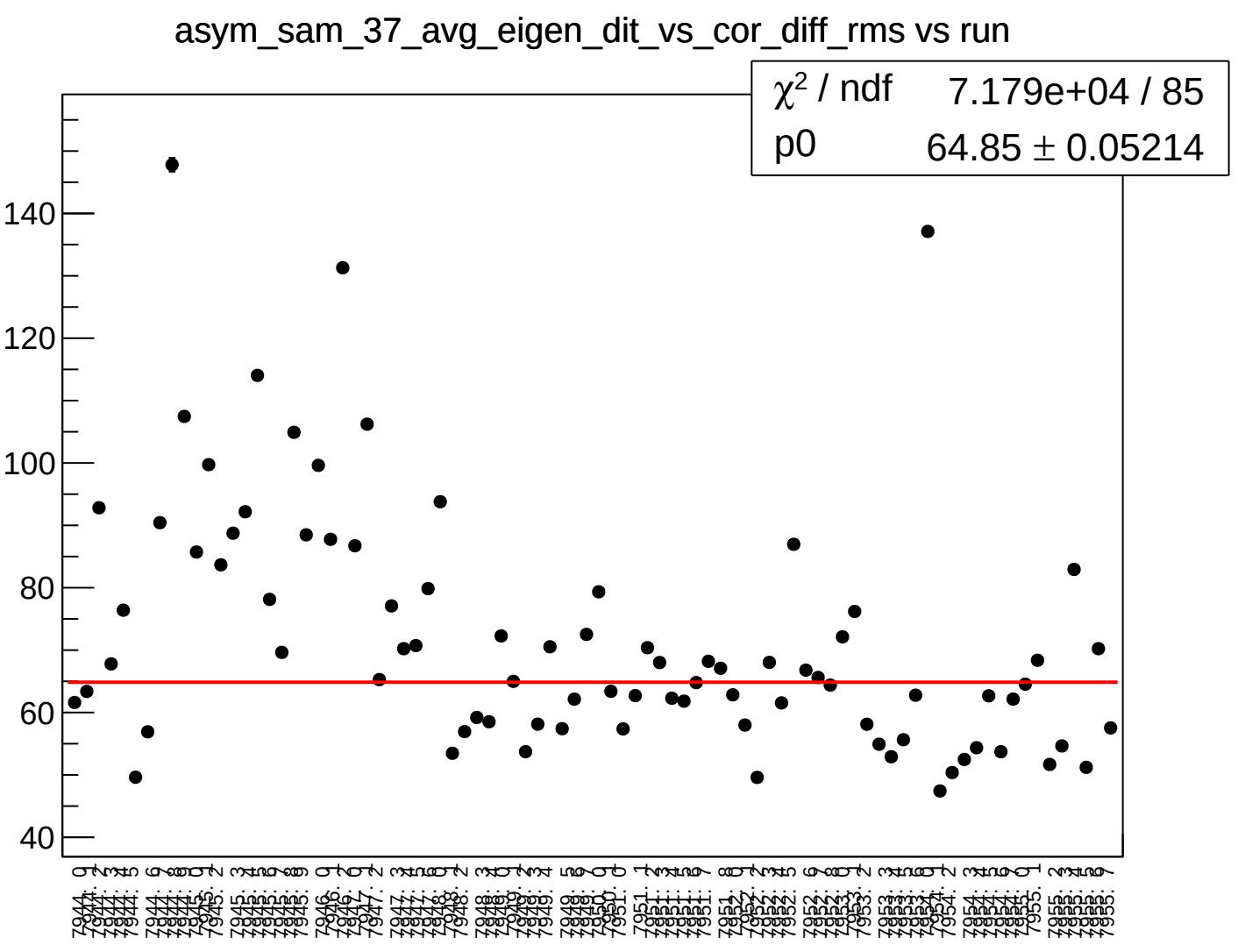

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.15 / 85
p0 2.361e−06 ± 3.473e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 211.9
Std Dev 0
3
2
1
0
−1
−2
−3

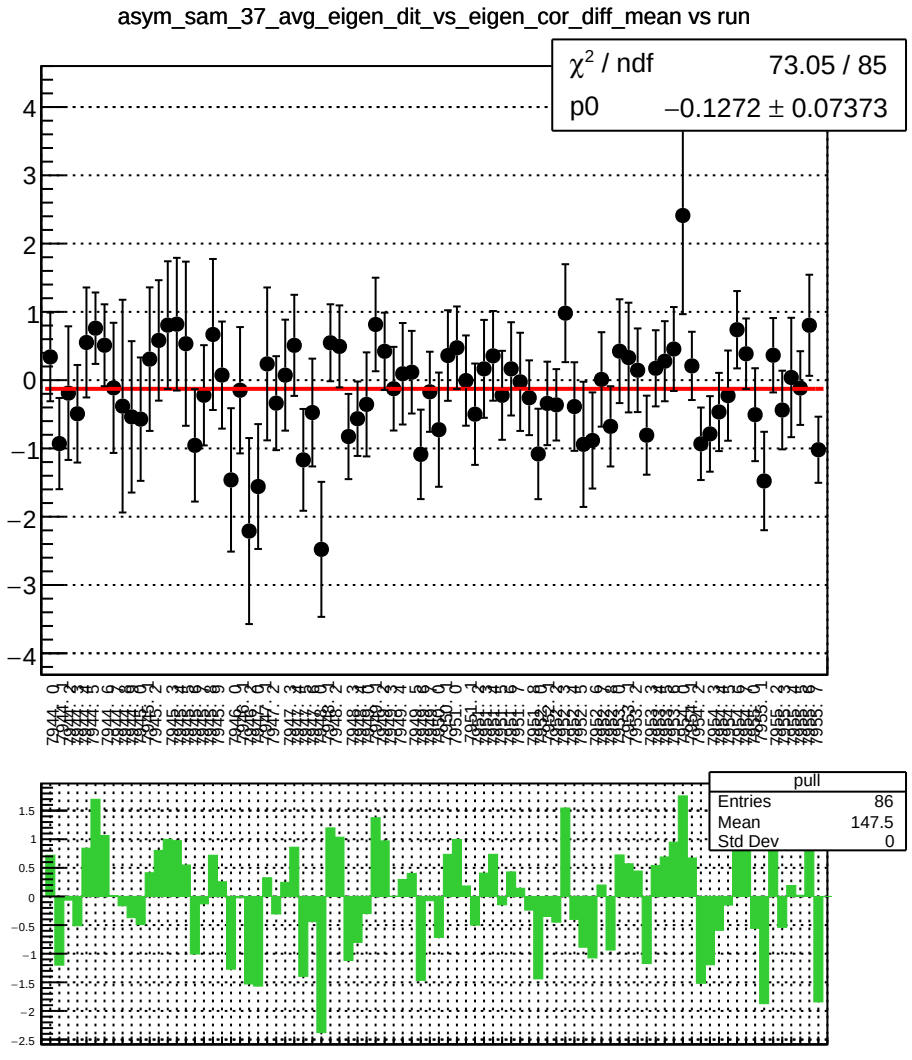

pull1D
Entries 86
Mean −0.02065
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

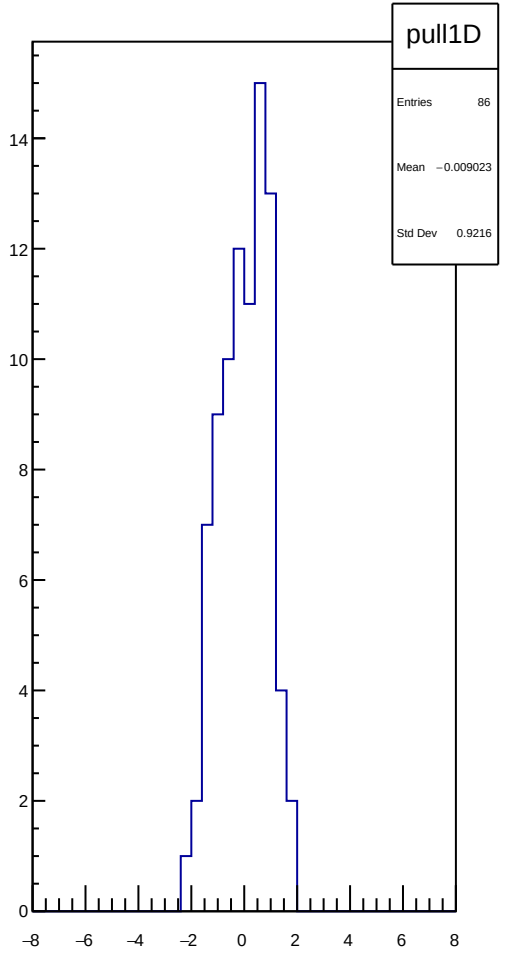

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7554 / 85
p0 0.003117 ± 2.456e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

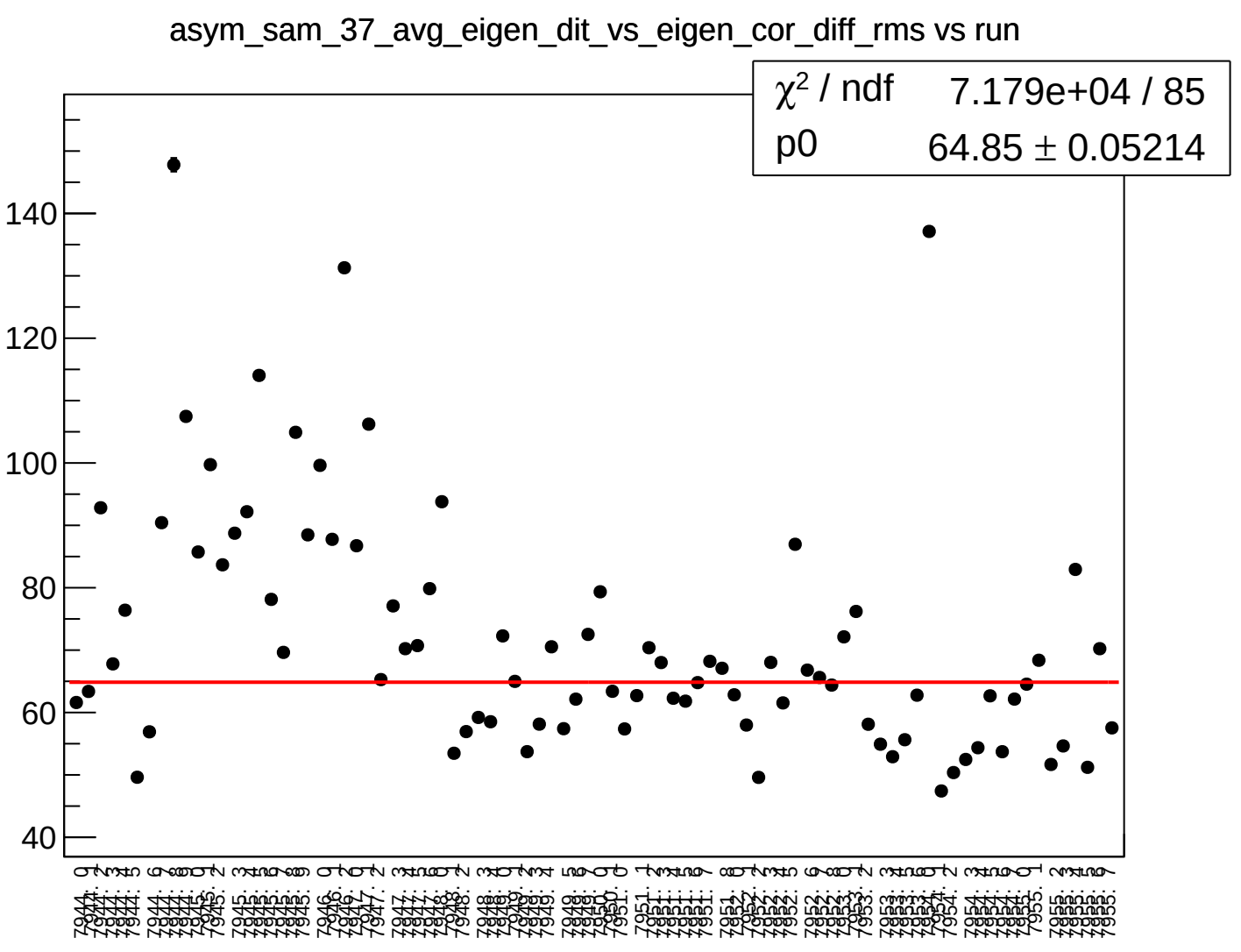

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.05 / 85
p0 −0.1272 ± 0.07373
pull
Entries 86
Mean 147.5
Std Dev 0

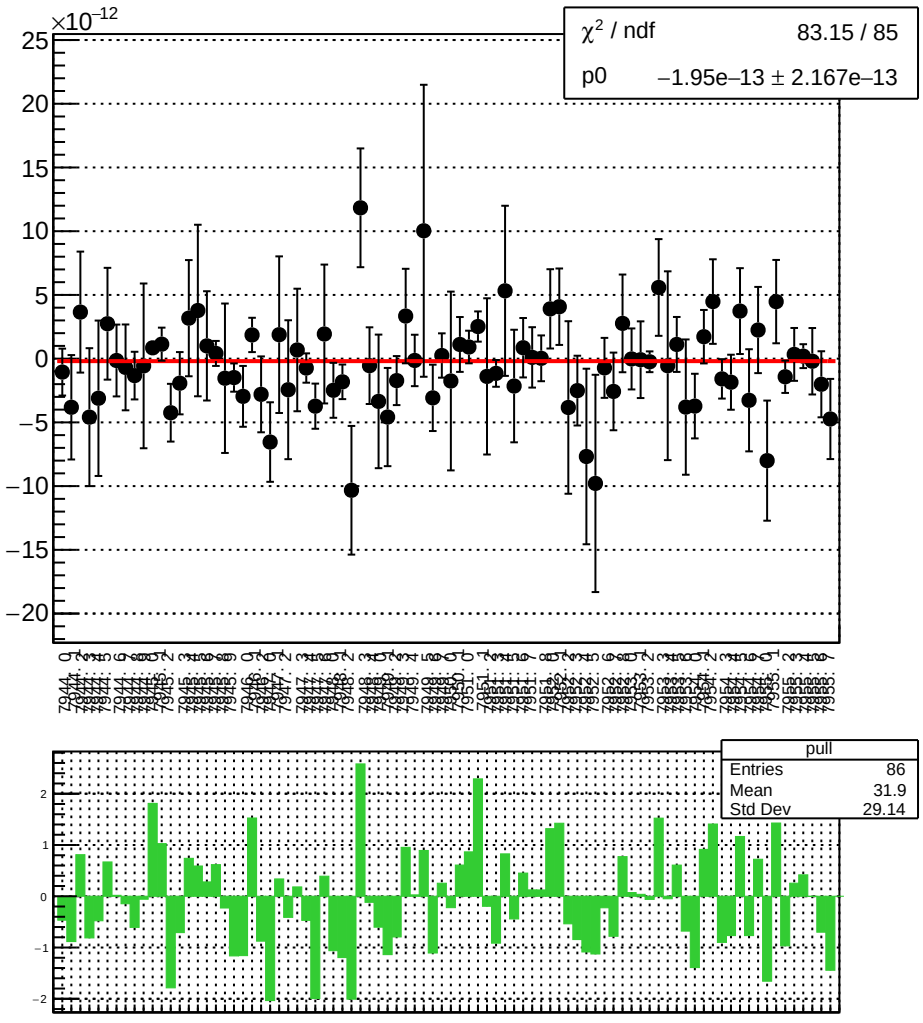

pull1D
Entries 86
Mean −0.009023
Std Dev 0.9216

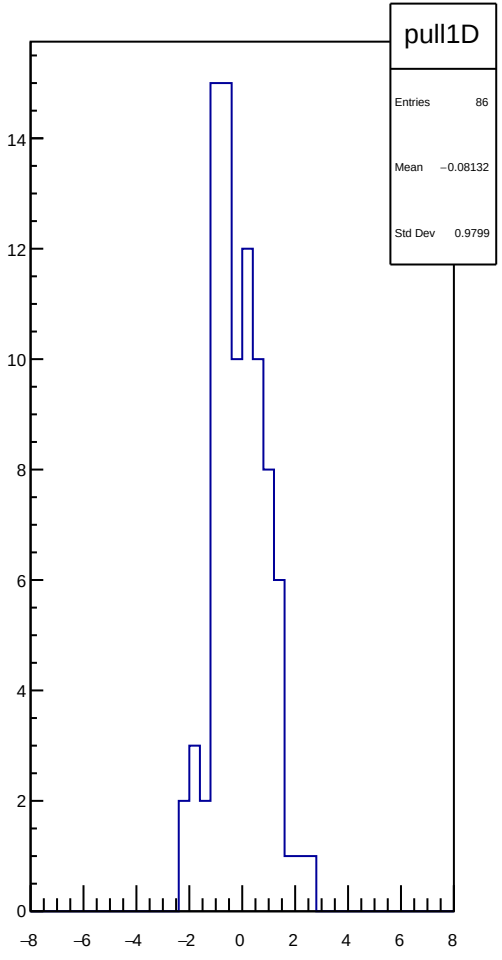

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.179e+04 / 85
p0 64.85 ± 0.05214
140
120
100
80
60
40

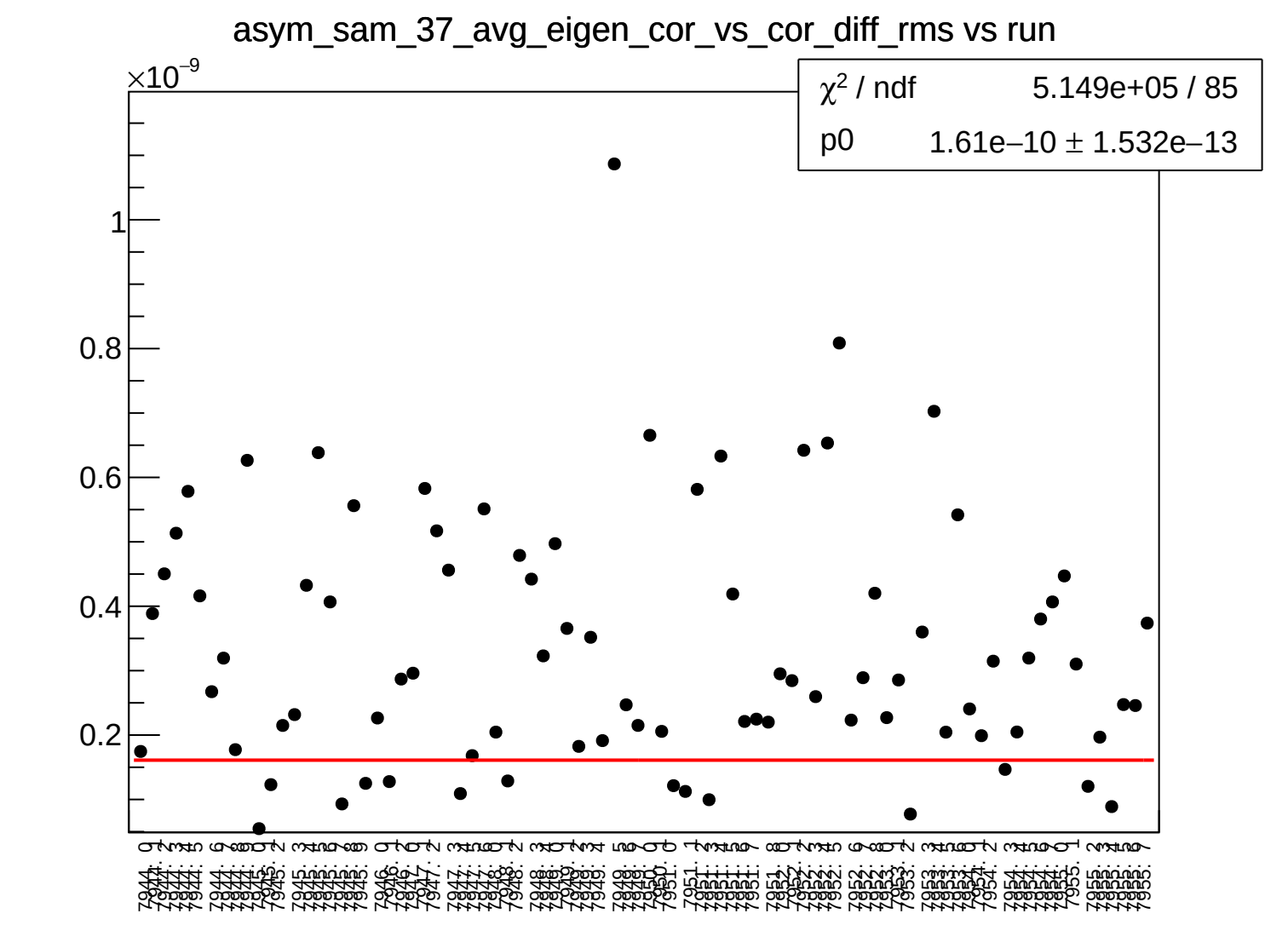

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.05 / 85
p0 −0.1272 ± 0.07373
pull
Entries 86
Mean 147.5
Std Dev 0

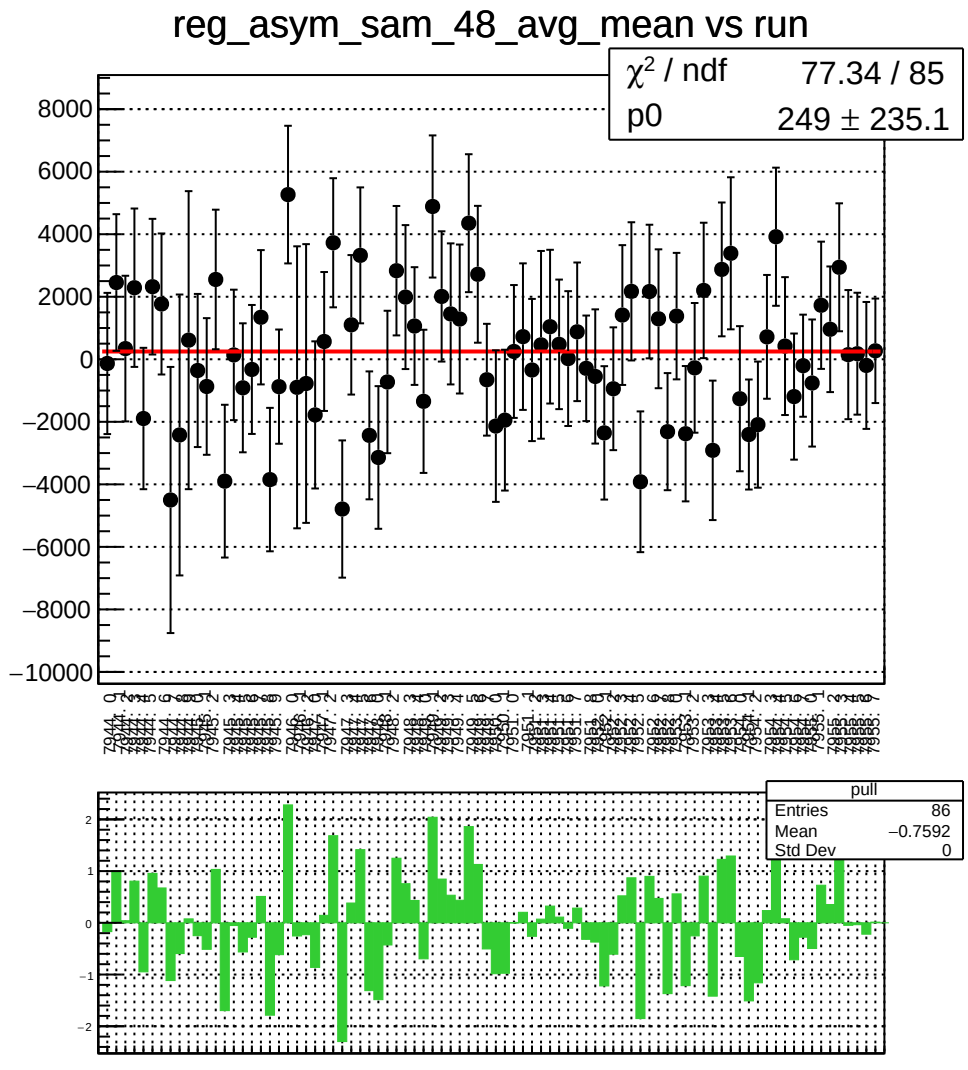

pull1D
Entries 86
Mean −0.009023
Std Dev 0.9216

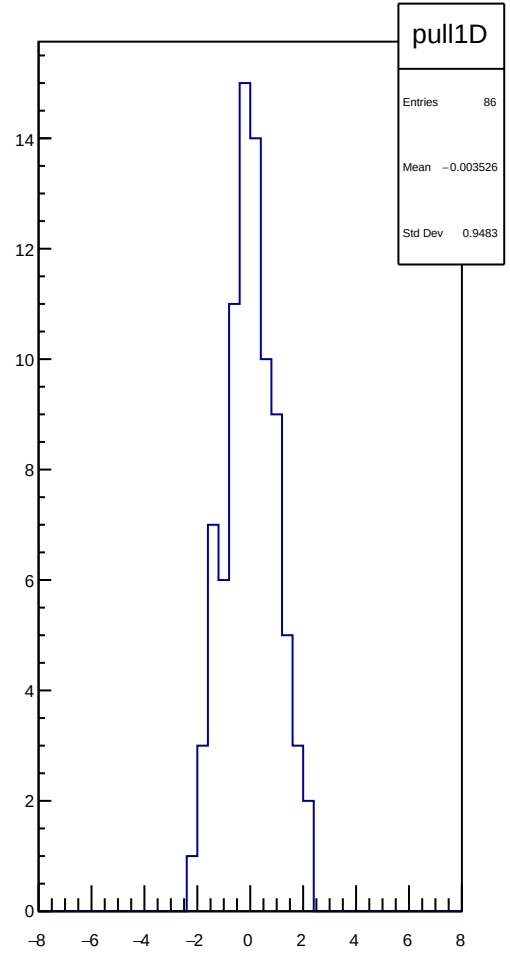

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.179e+04 / 85
p0 64.85 ± 0.05214
140
120
100
80
60
40

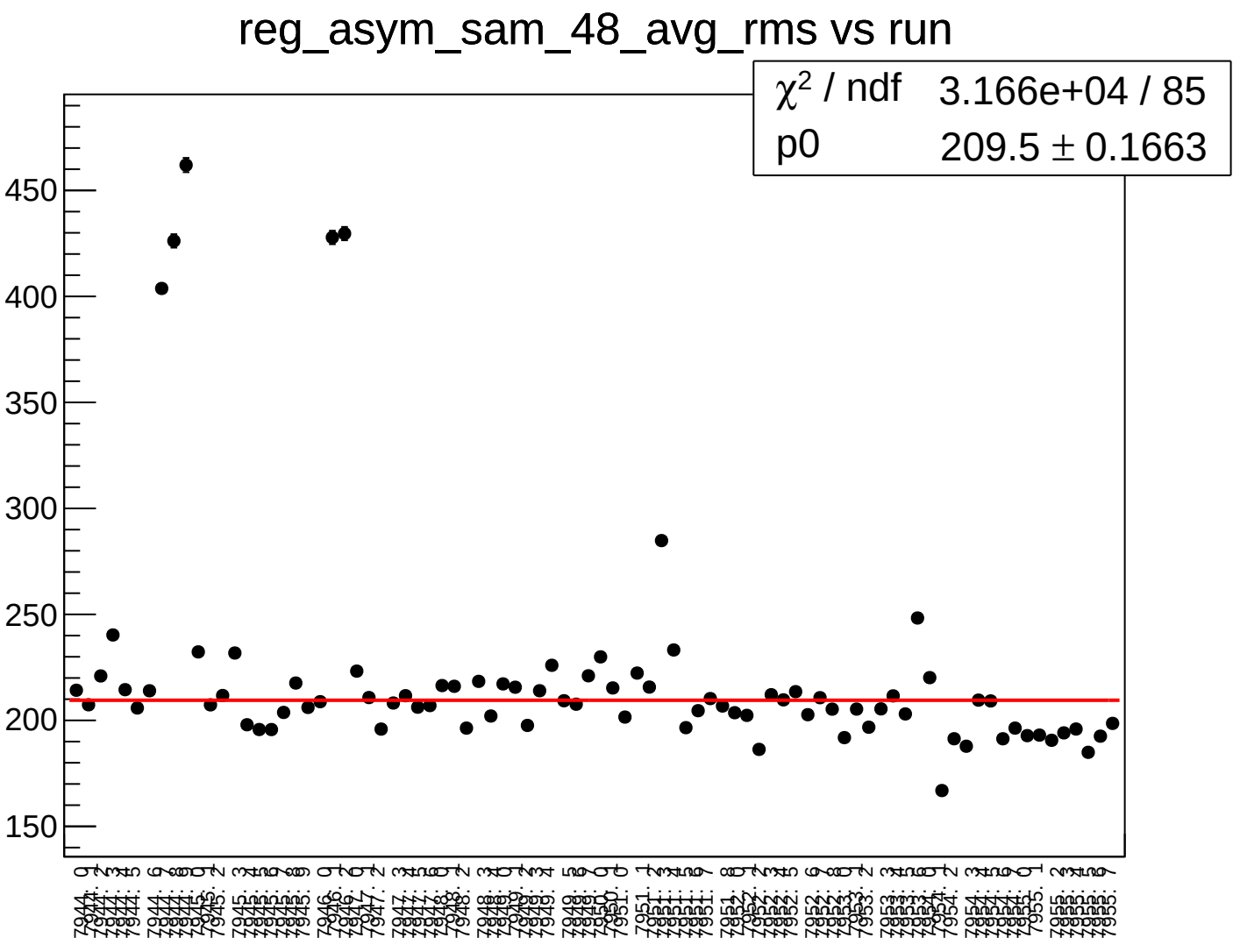

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.15 / 85
p0 −1.95e−13 ± 2.167e−13
pull
Entries 86
Mean 31.9
Std Dev 29.14

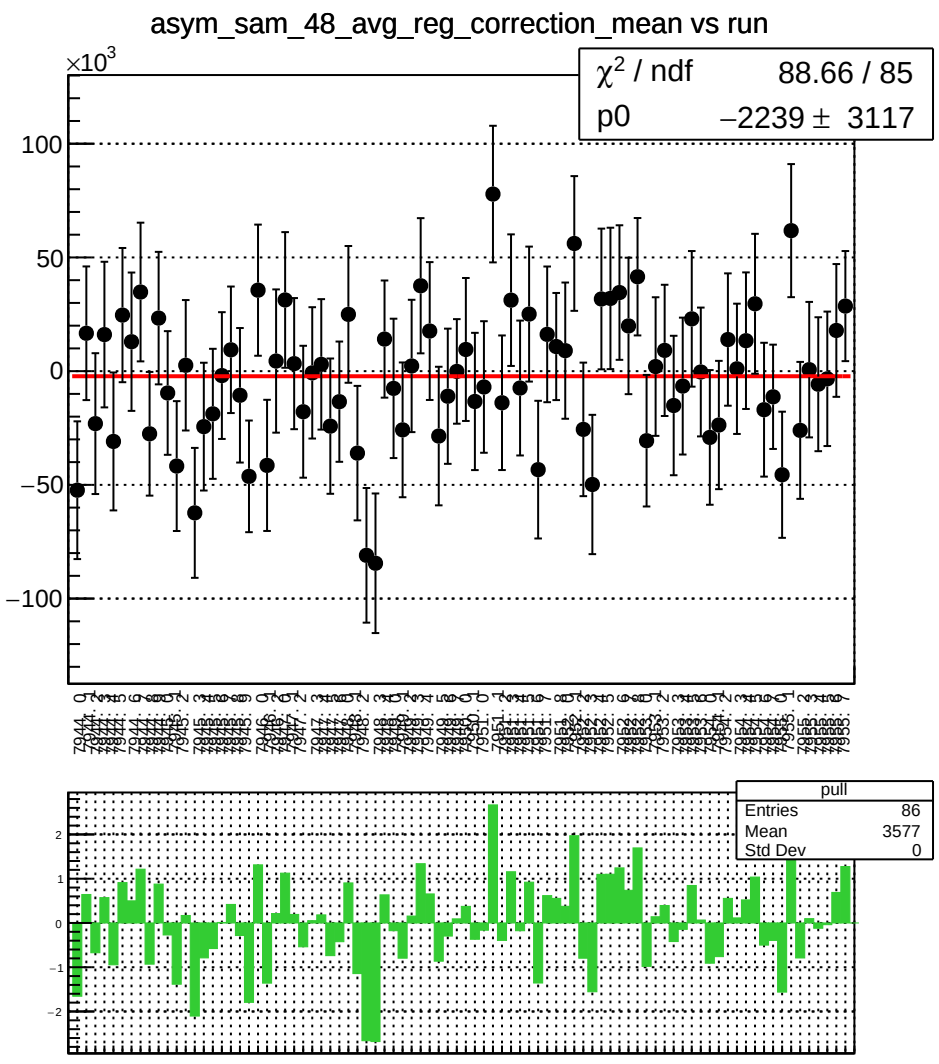

pull1D
Entries 86
Mean −0.08132
Std Dev 0.9799

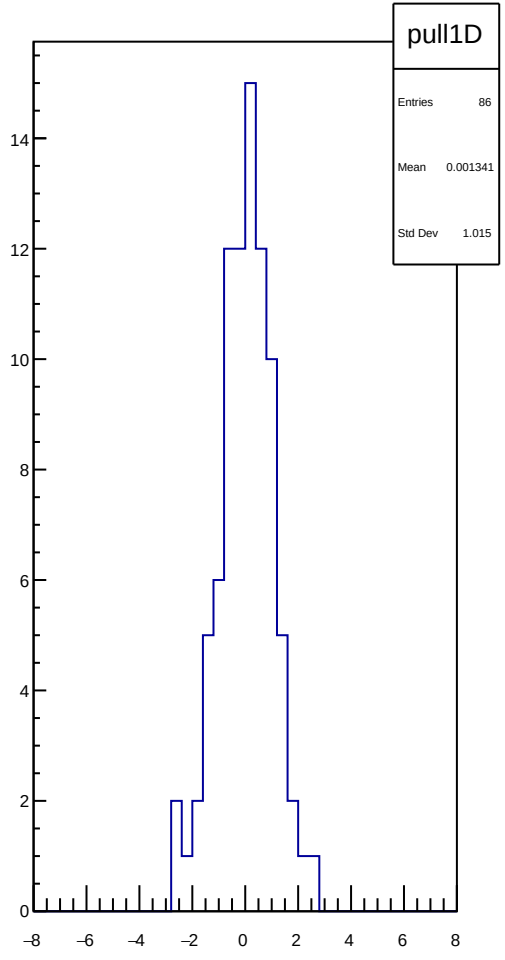

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.149e+05 / 85
p0 1.61e−10 ± 1.532e−13
1
0.8
0.6
0.4
0.2

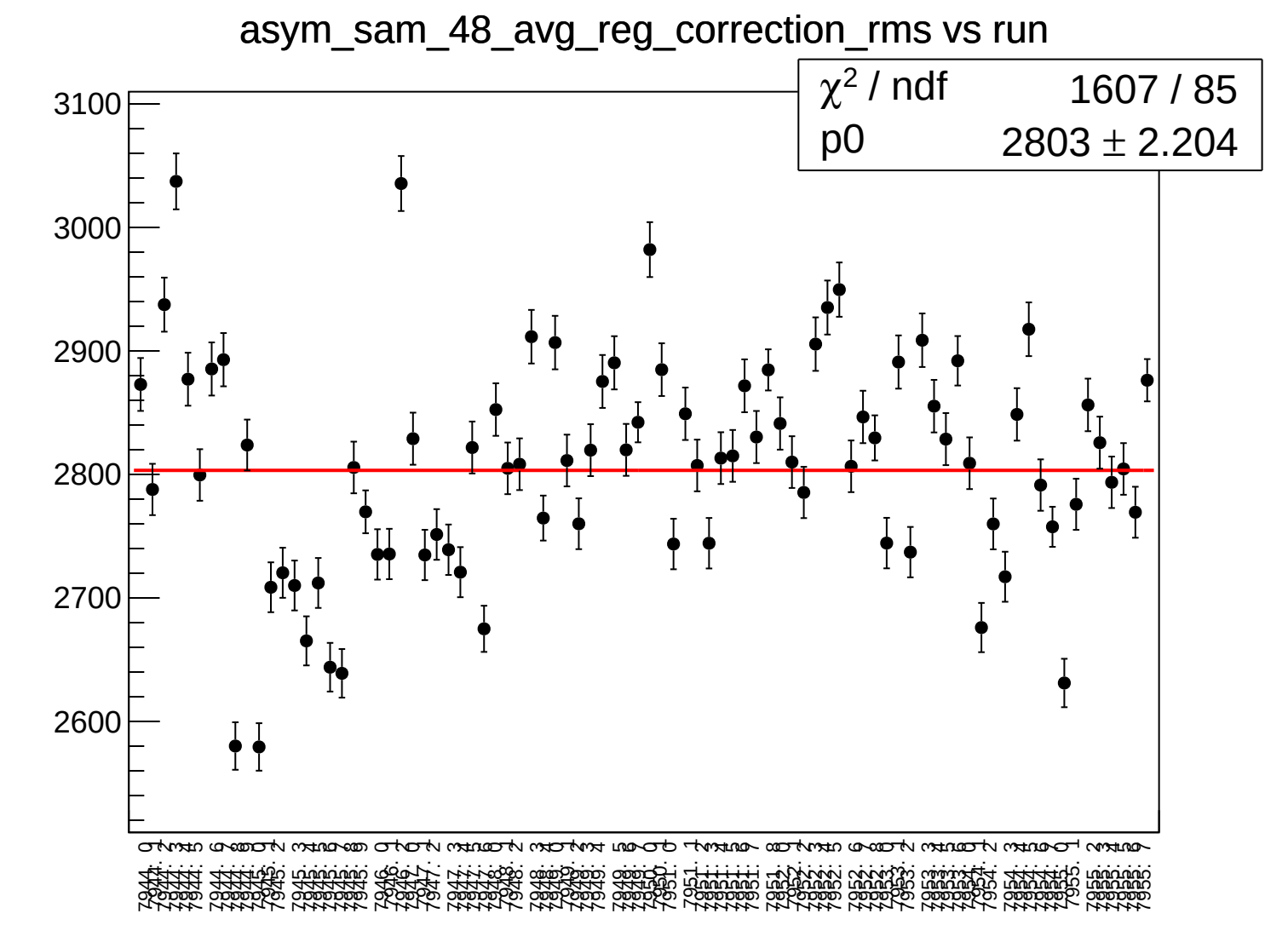

reg_asym_sam_48_avg_mean vs run
χ² / ndf 77.34 / 85
p0 249 ± 235.1
pull
Entries 86
Mean −0.7592
Std Dev 0

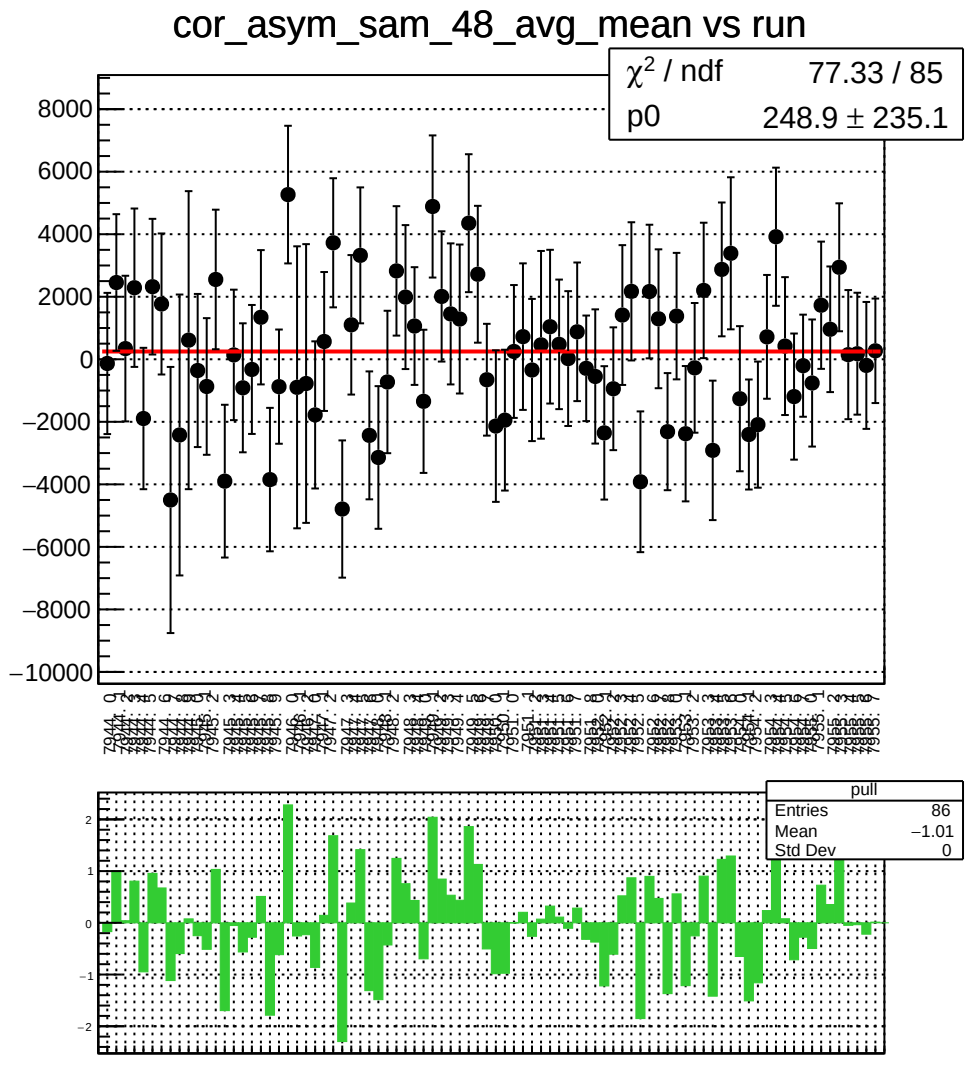

pull1D
Entries 86
Mean −0.003526
Std Dev 0.9483

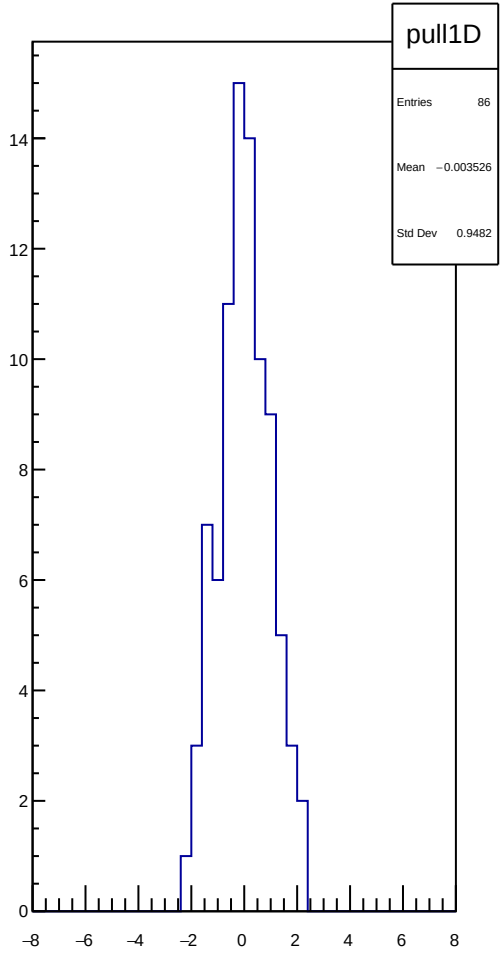

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 3.166e+04 / 85
p0 209.5 ± 0.1663
450
400
350
300
250
200
150

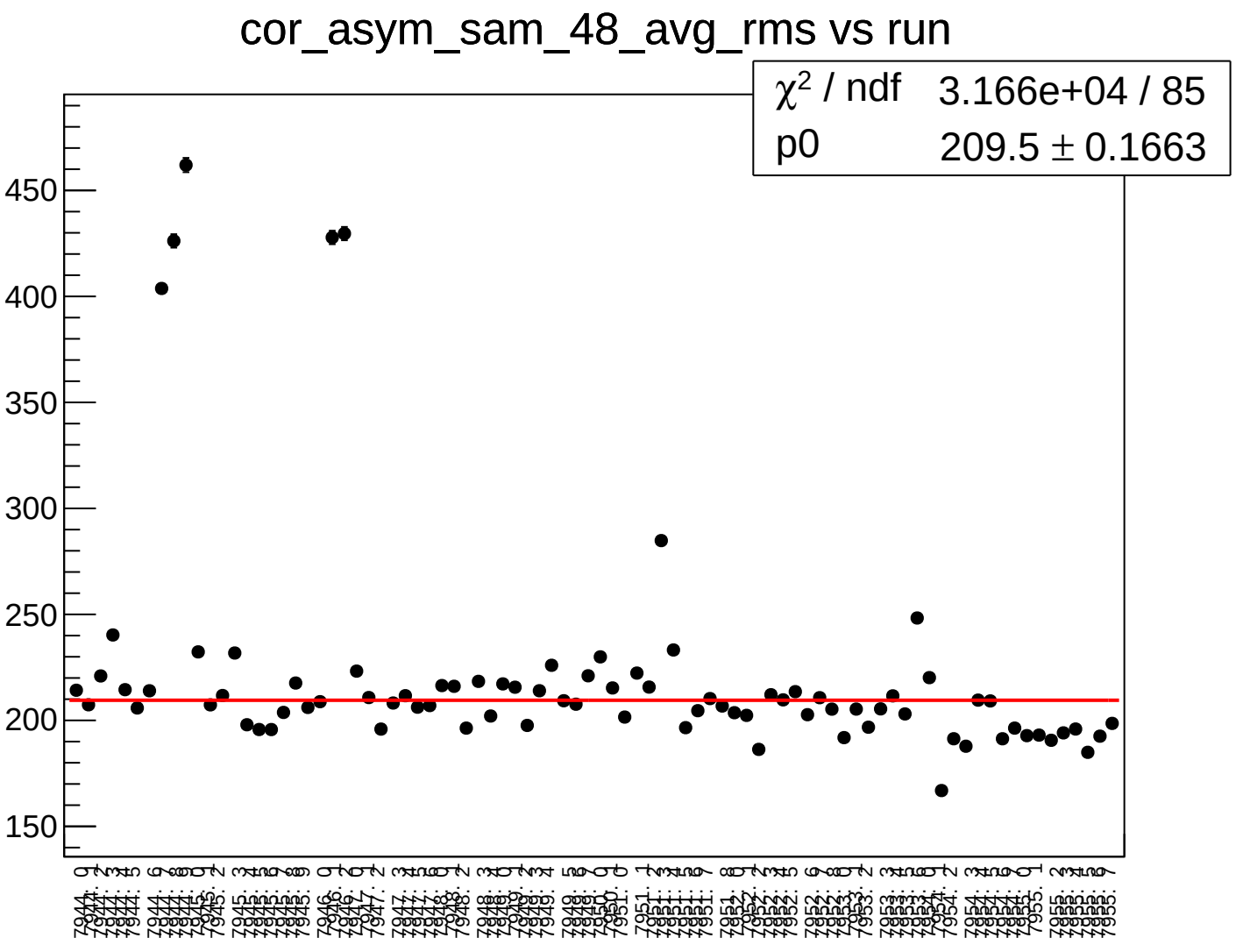

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.66 / 85
p0 −2239 ± 3117
100
50
0
−50
−100
pull
Entries 86
Mean 3577
Std Dev 0
2
1
0
−1
−2

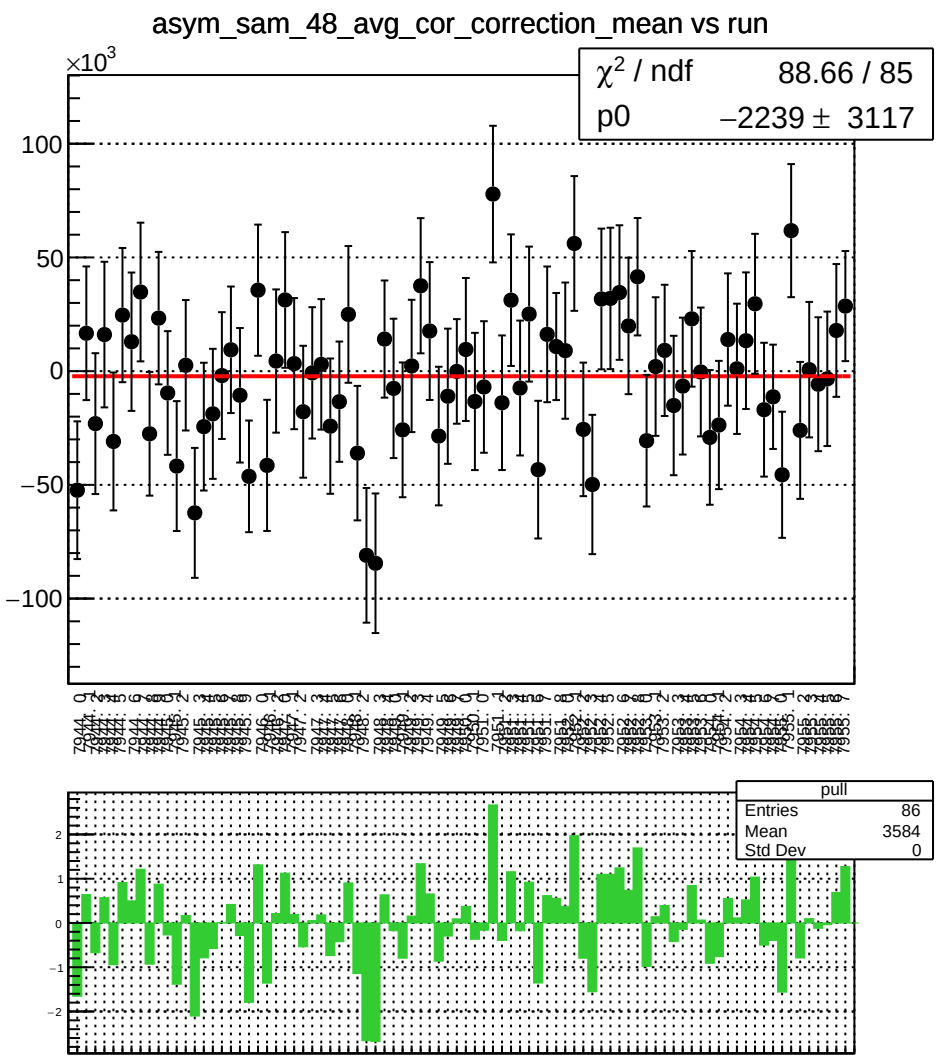

pull1D
Entries 86
Mean 0.001341
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

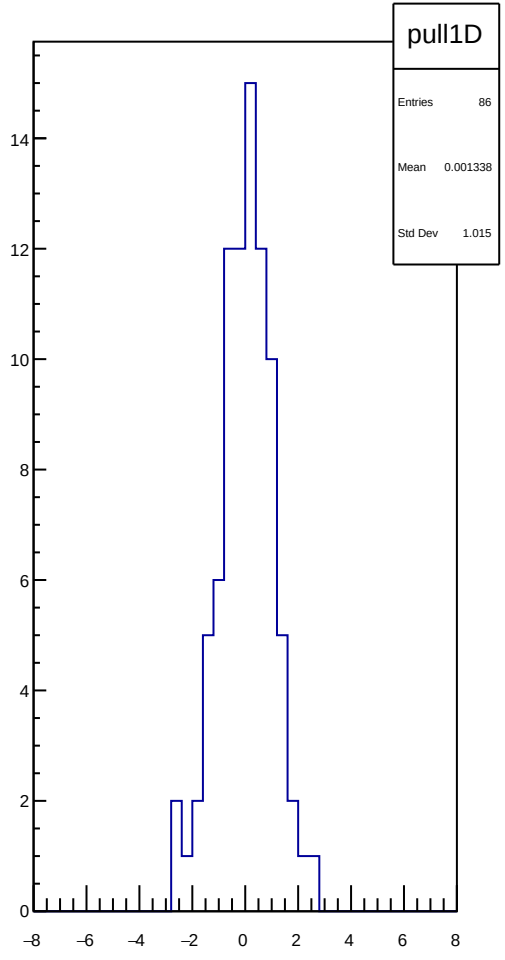

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1607 / 85
p0 2803 ± 2.204
3100
3000
2900
2800
2700
2600

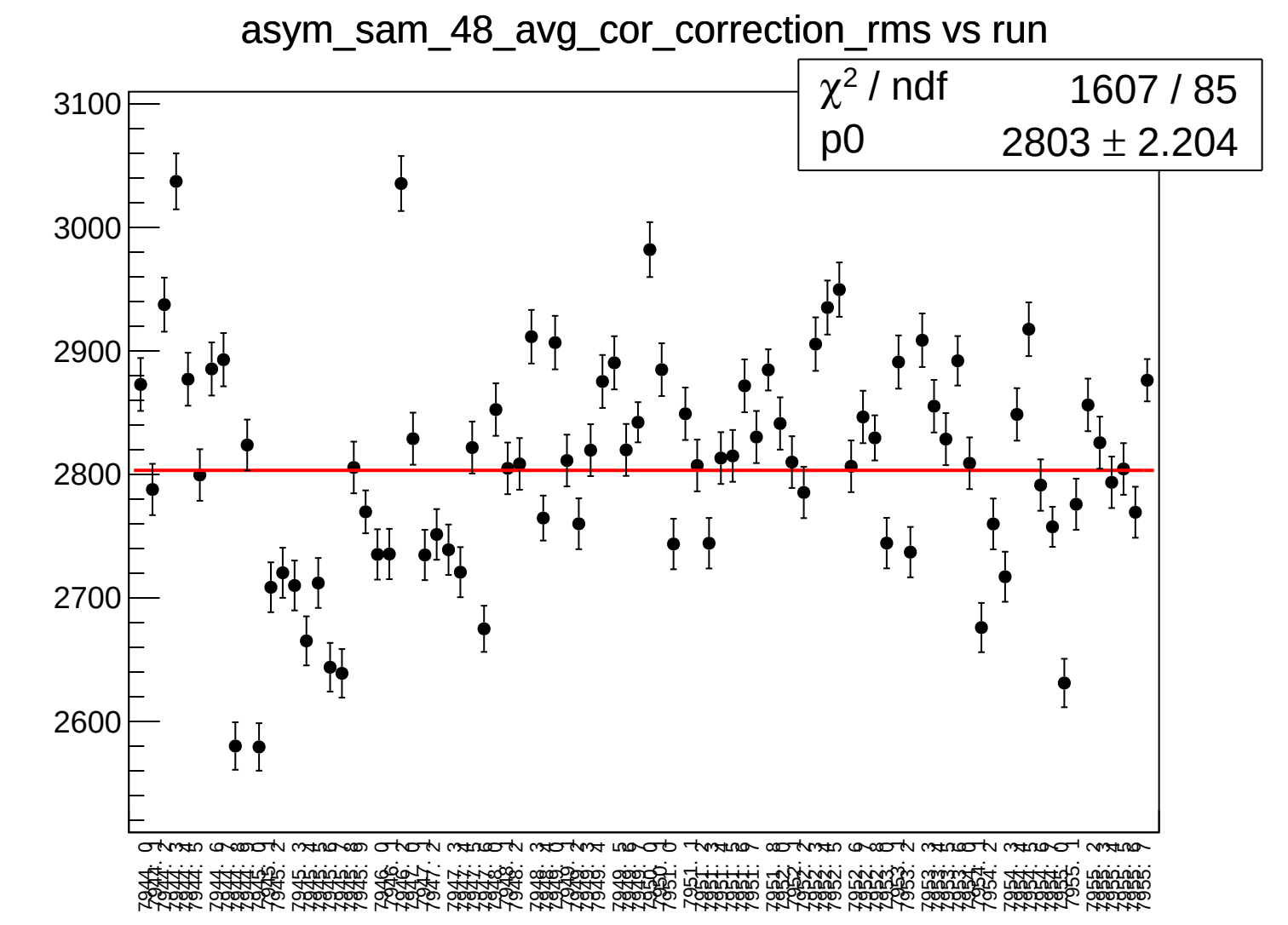

cor_asym_sam_48_avg_mean vs run
χ² / ndf 77.33 / 85
p0 248.9 ± 235.1
pull
Entries 86
Mean −1.01
Std Dev 0

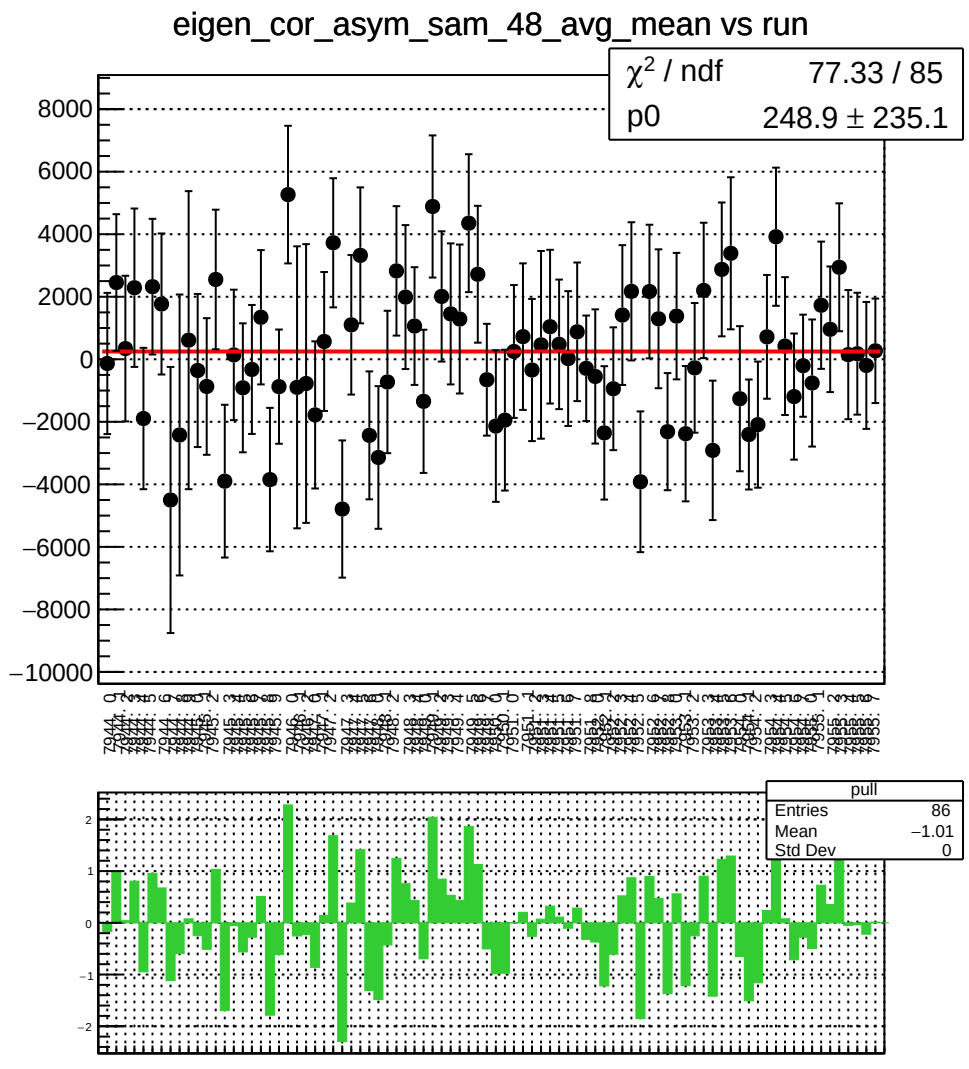

pull1D
Entries 86
Mean −0.003526
Std Dev 0.9482

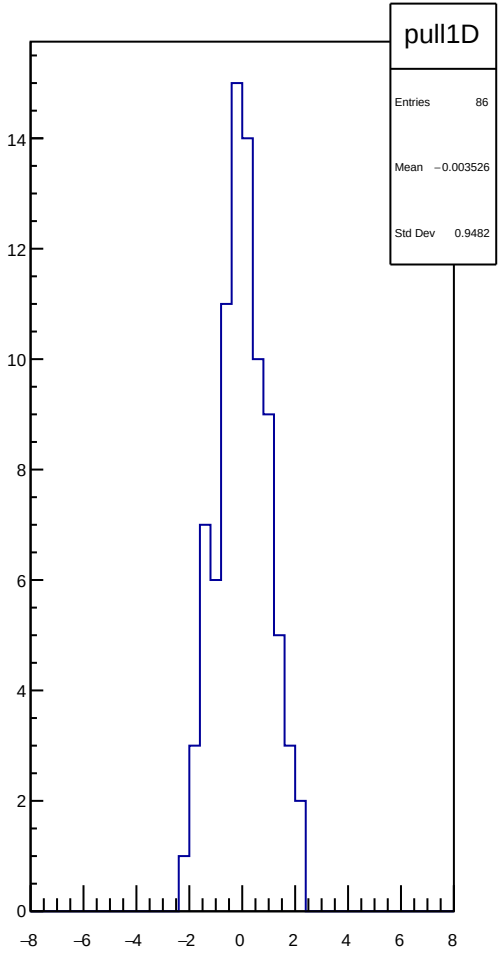

cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 3.166e+04 / 85
p0 209.5 ± 0.1663
450
400
350
300
250
200
150

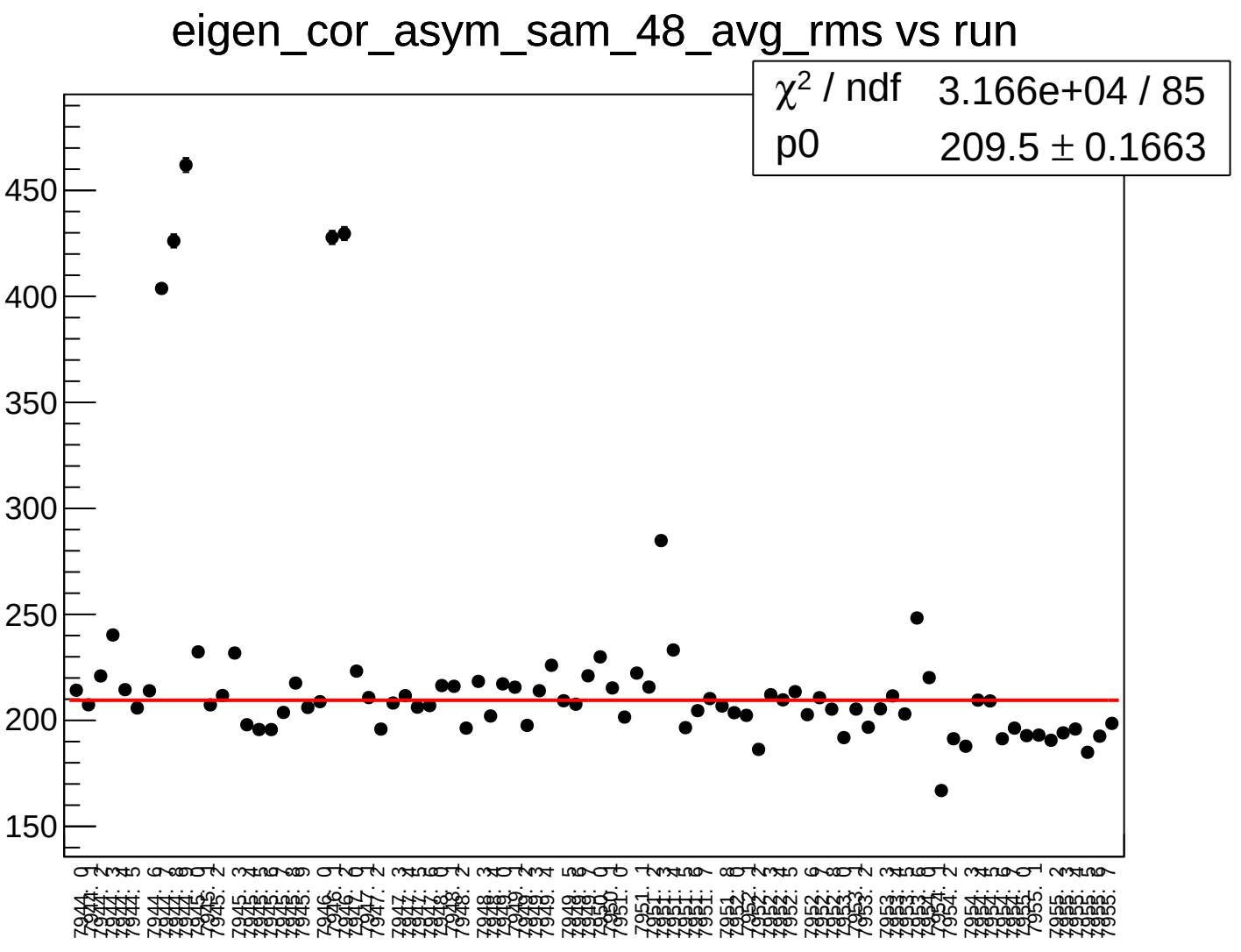

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.66 / 85
p0 −2239 ± 3117
100
50
0
−50
−100
pull
Entries 86
Mean 3584
Std Dev 0
2
1
0
−1
−2

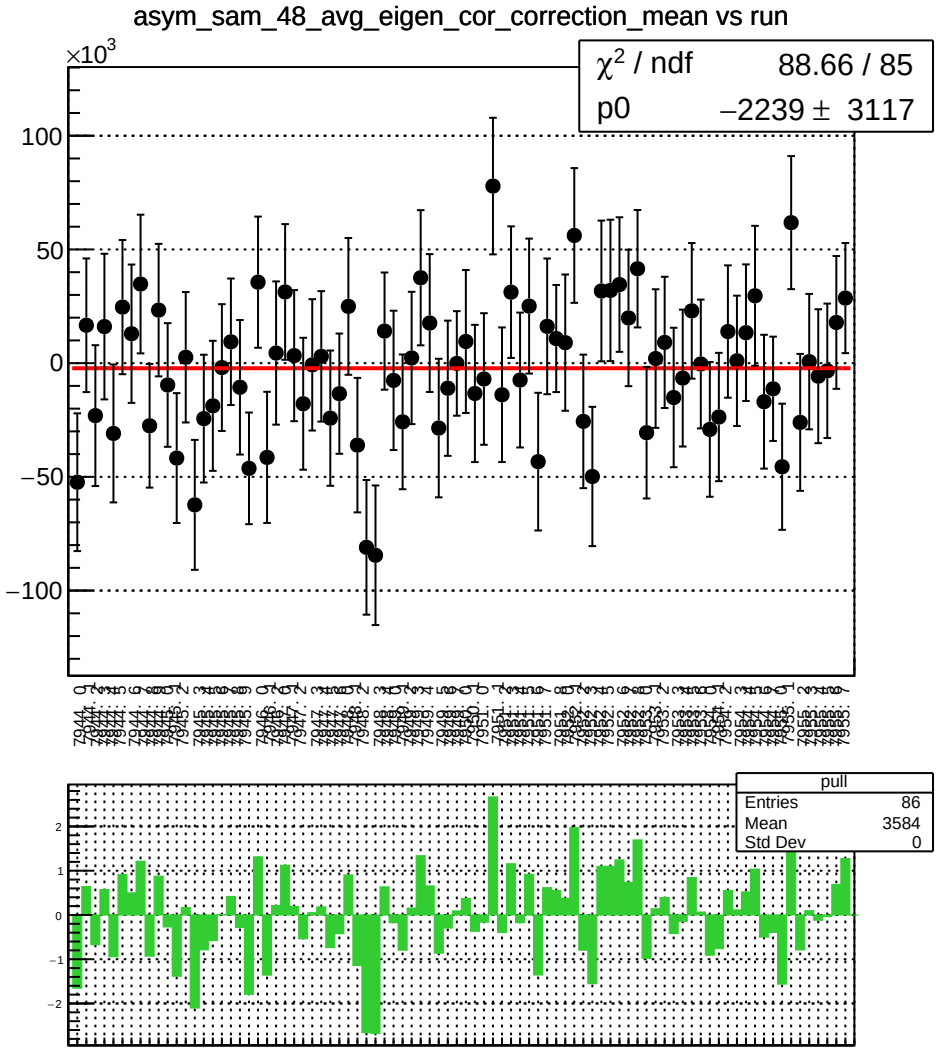

pull1D
Entries 86
Mean 0.001338
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

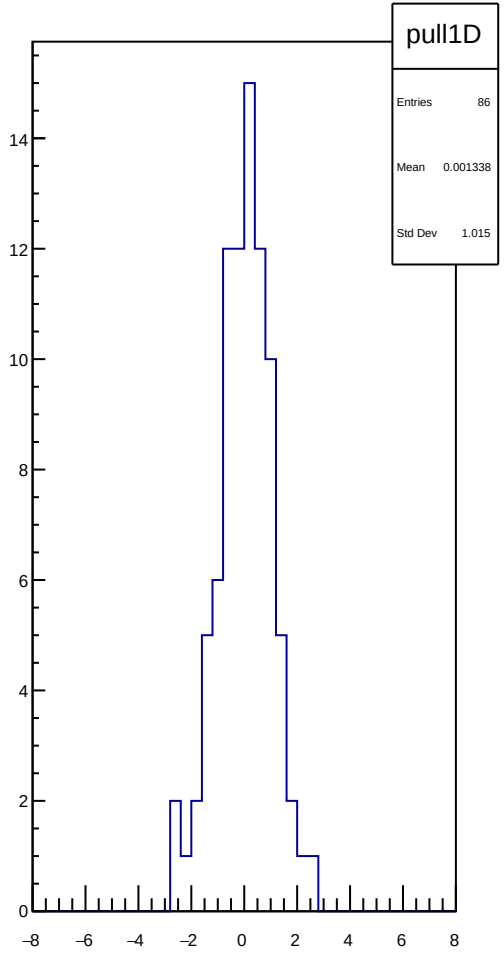

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1607 / 85
p0 2803 ± 2.204
3100
3000
2900
2800
2700
2600

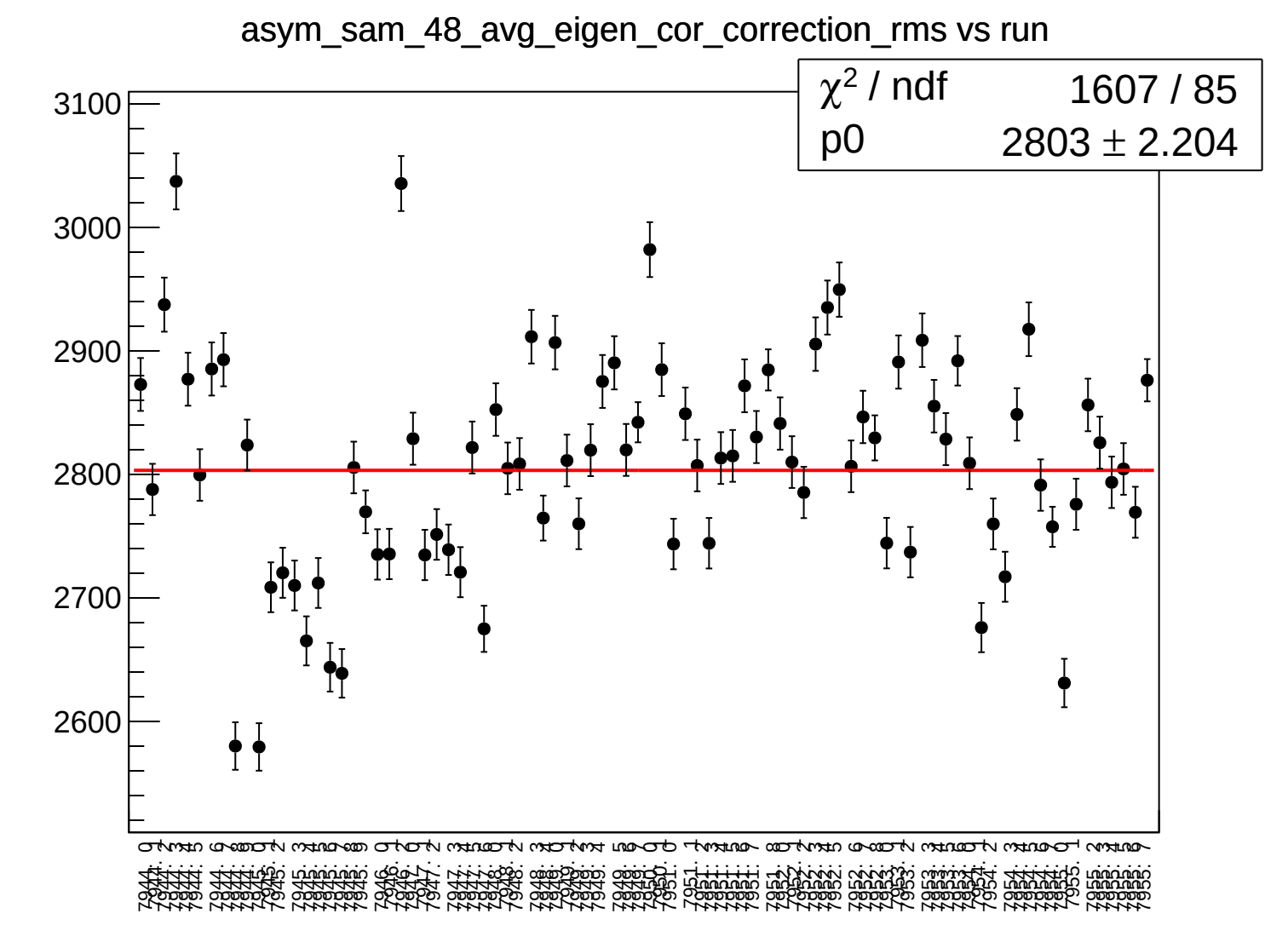

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 77.33 / 85
p0 248.9 ± 235.1
pull
Entries 86
Mean −1.01
Std Dev 0

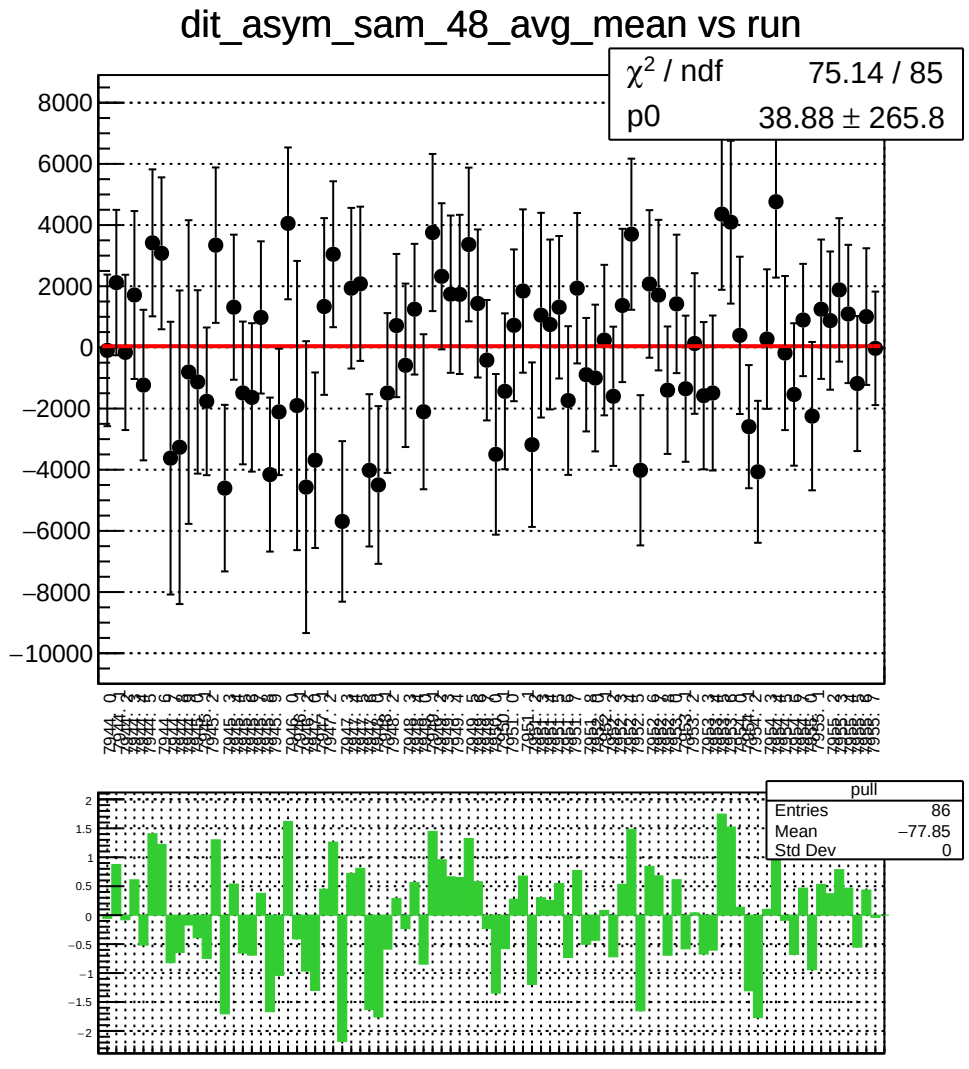

pull1D
Entries 86
Mean −0.003526
Std Dev 0.9482

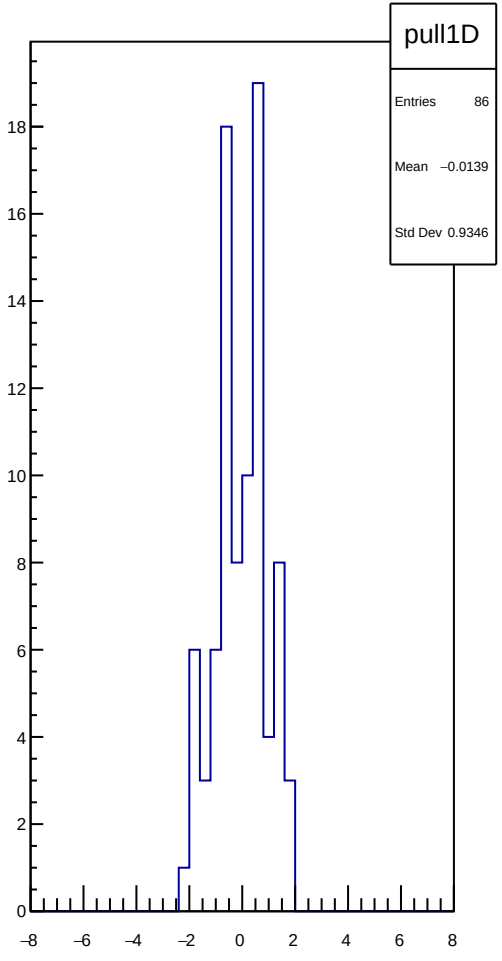

eigen_cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 3.166e+04 / 85
p0 209.5 ± 0.1663
450
400
350
300
250
200
150

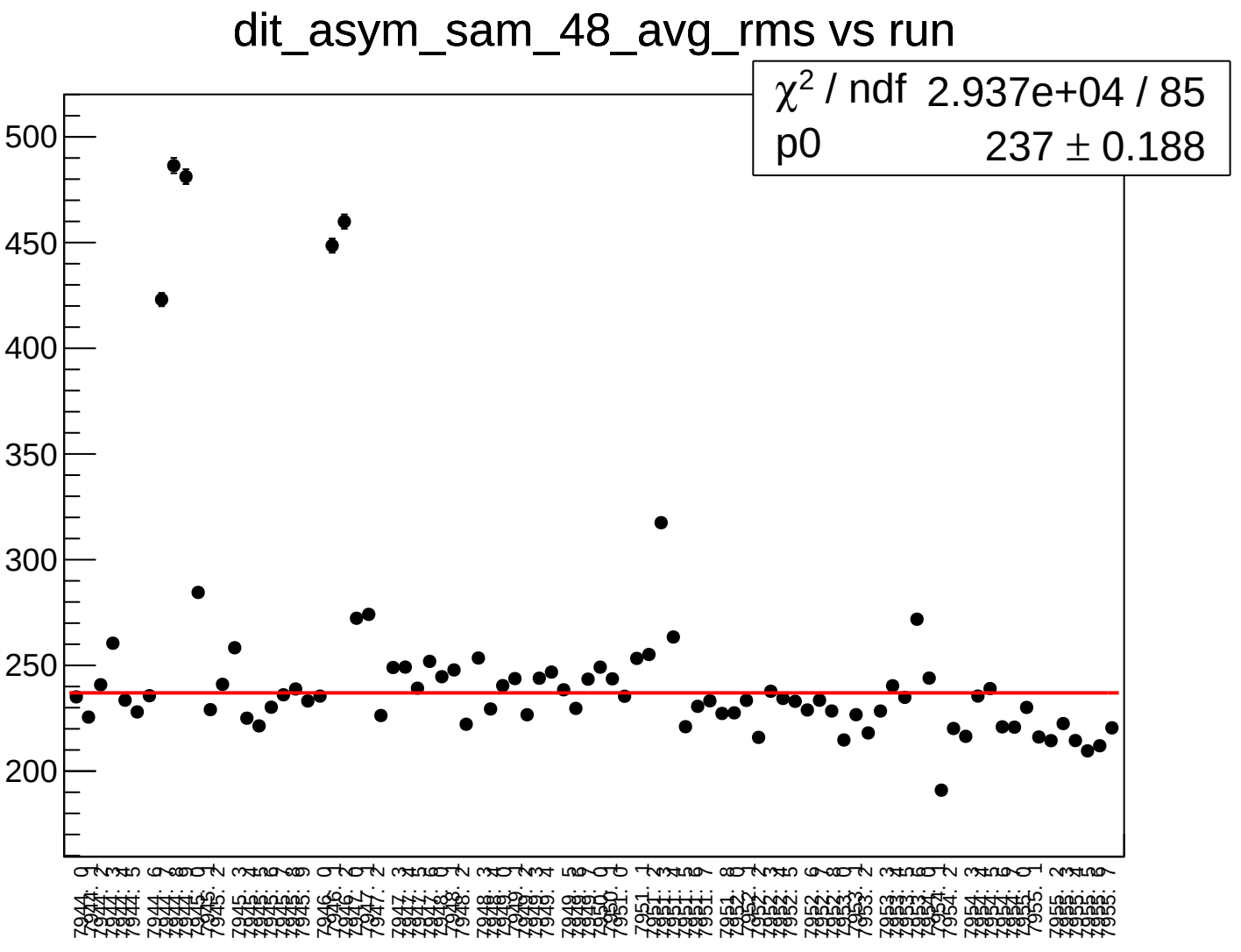

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.66 / 85
p0 −2239 ± 3117
100
50
0
−50
−100
pull
Entries 86
Mean 3584
Std Dev 0
2
1
0
−1
−2

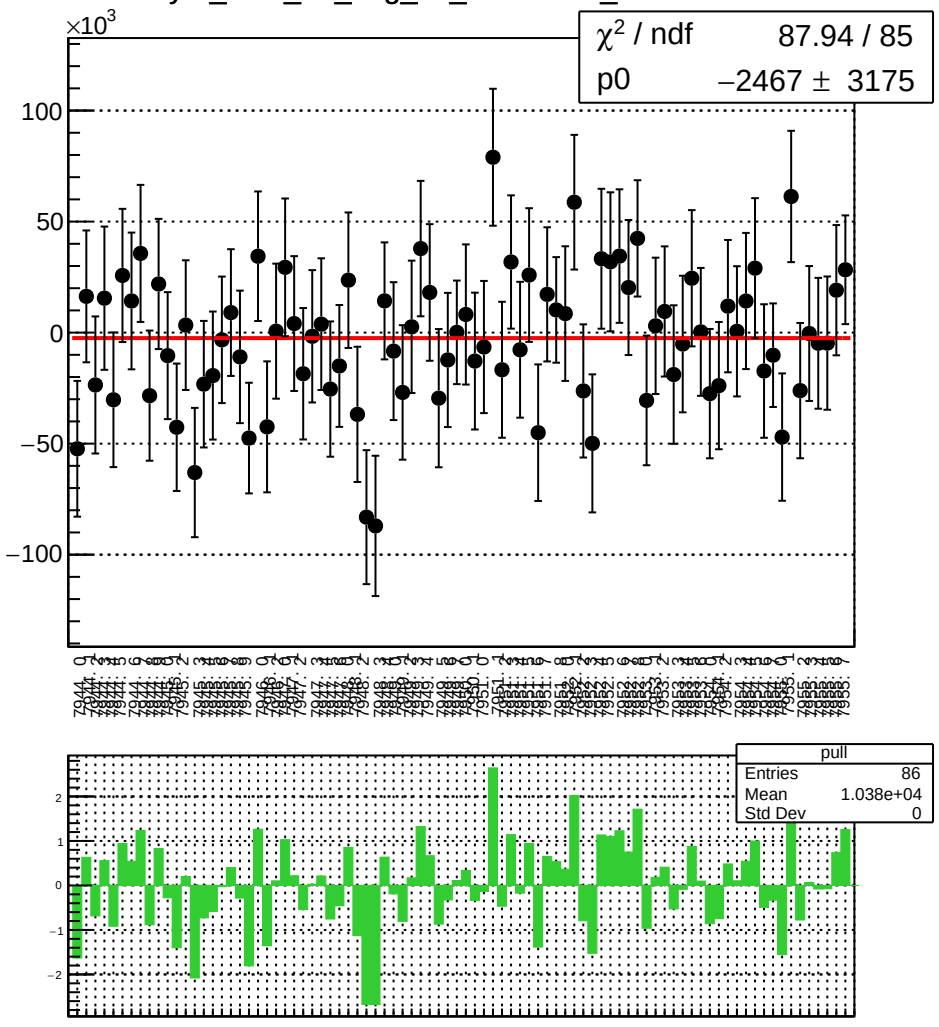

pull1D
Entries 86
Mean 0.001338
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

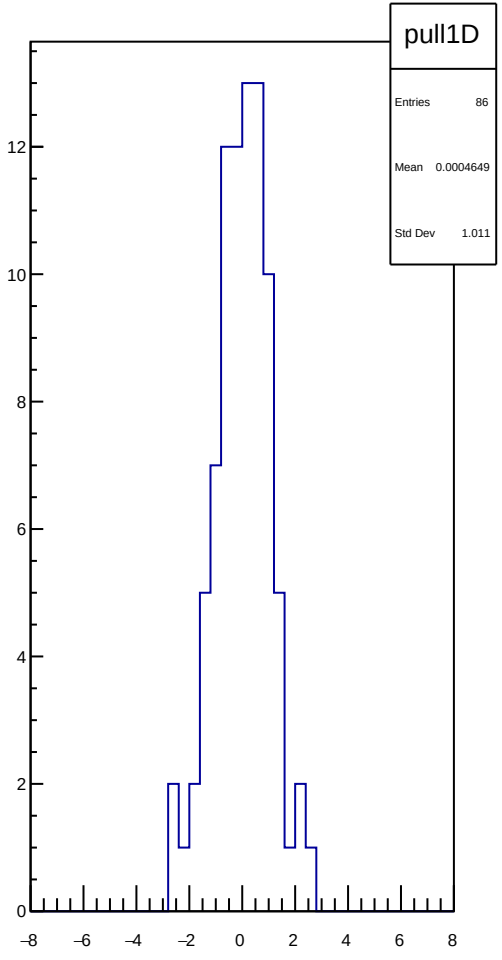

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1607 / 85
p0 2803 ± 2.204
3100
3000
2900
2800
2700
2600

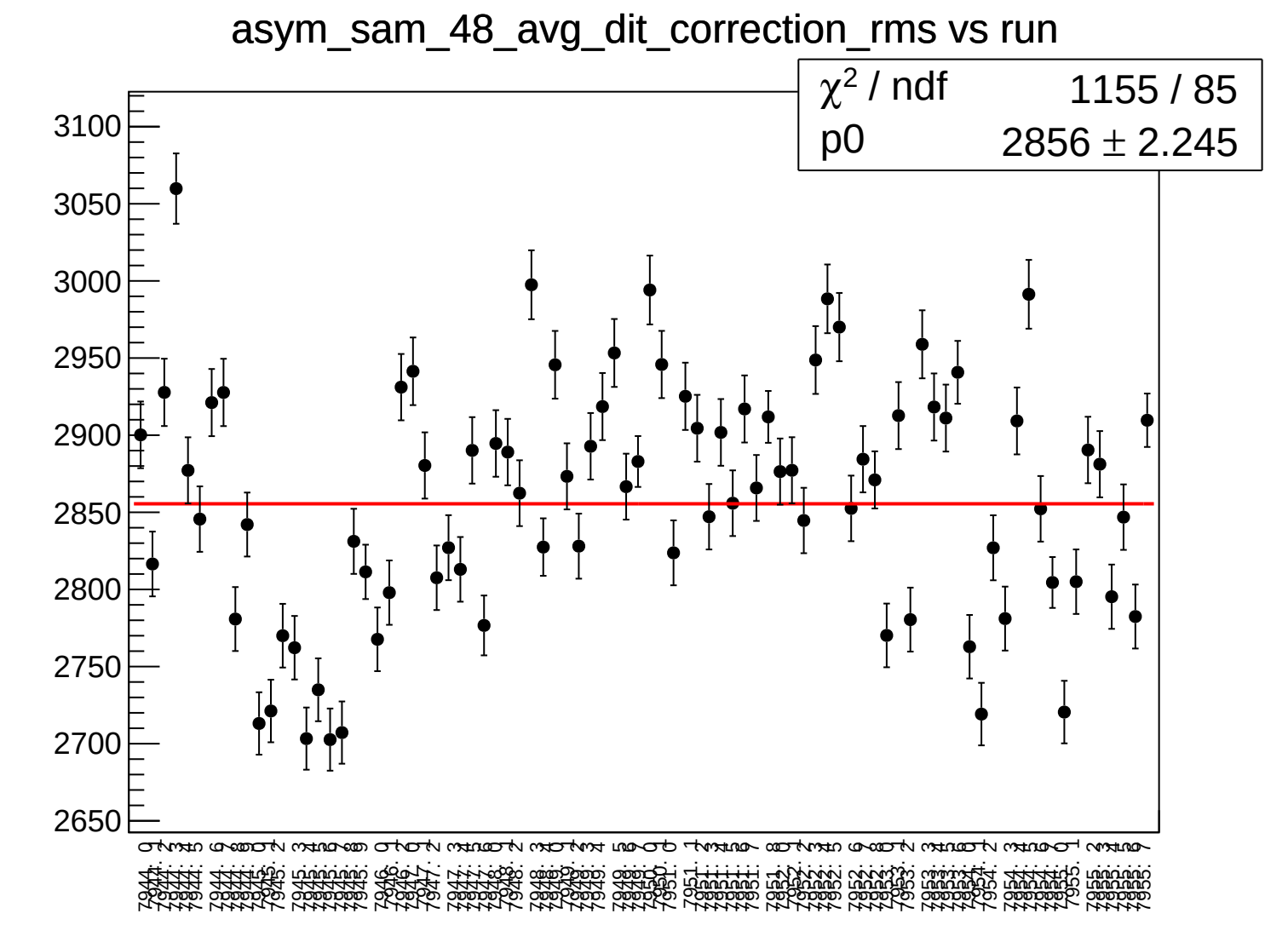

dit_asym_sam_48_avg_mean vs run
χ² / ndf 75.14 / 85
p0 38.88 ± 265.8
pull
Entries 86
Mean −77.85
Std Dev 0

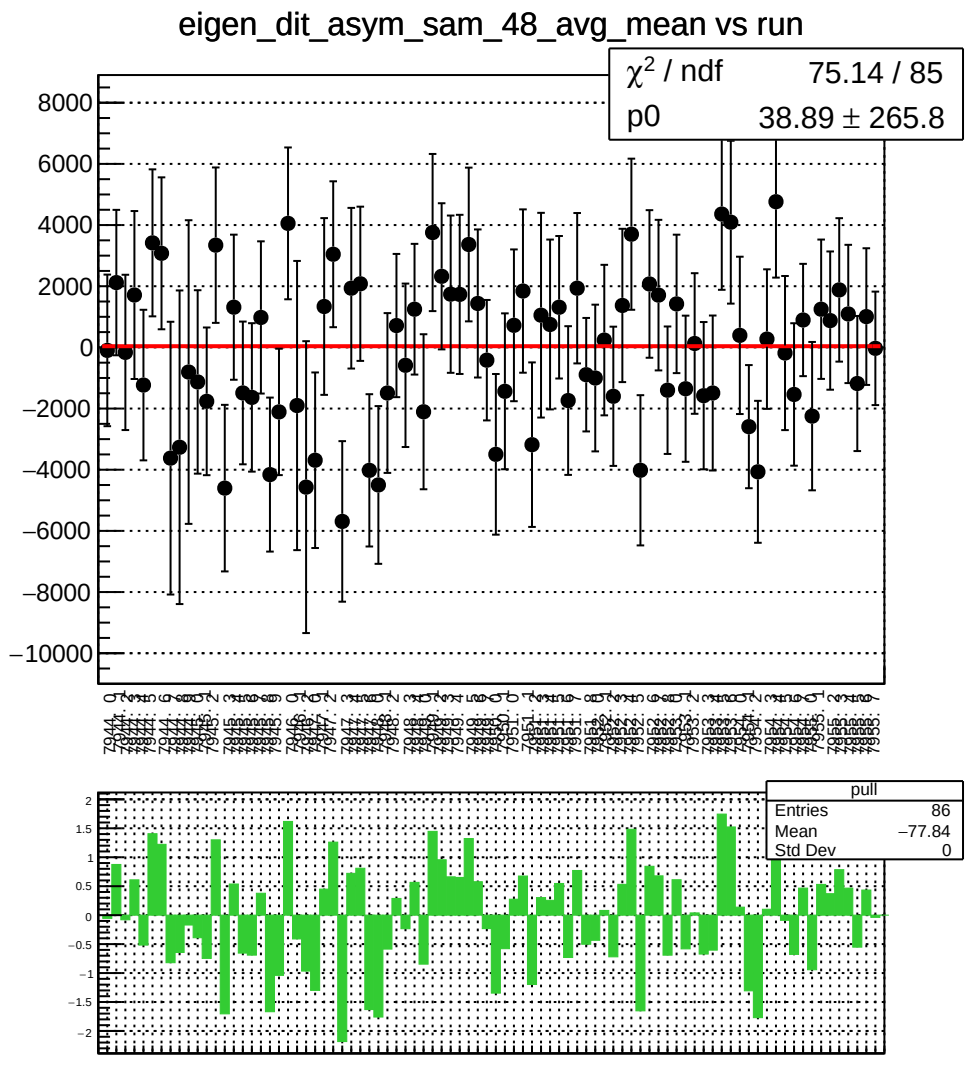

pull1D
Entries 86
Mean −0.0139
Std Dev 0.9346

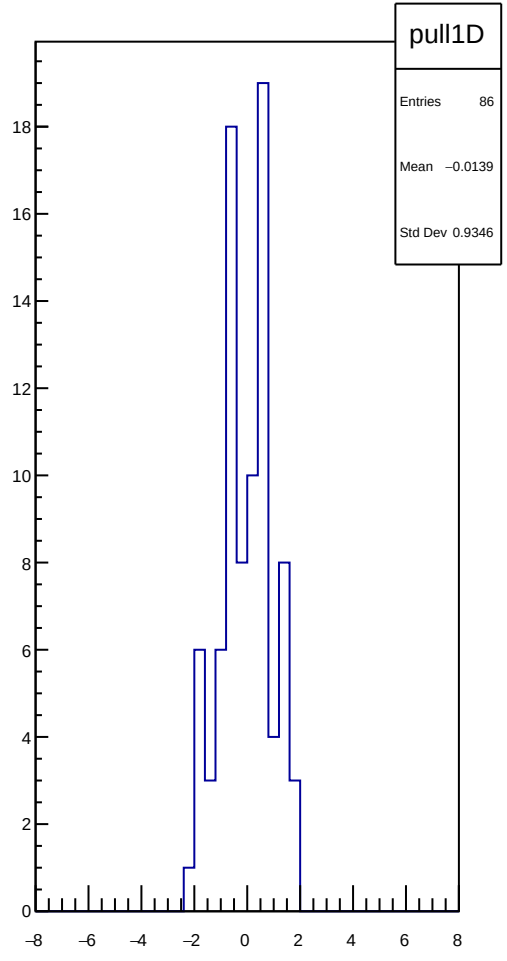

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 2.937e+04 / 85
p0 237 ± 0.188
500
450
400
350
300
250
200

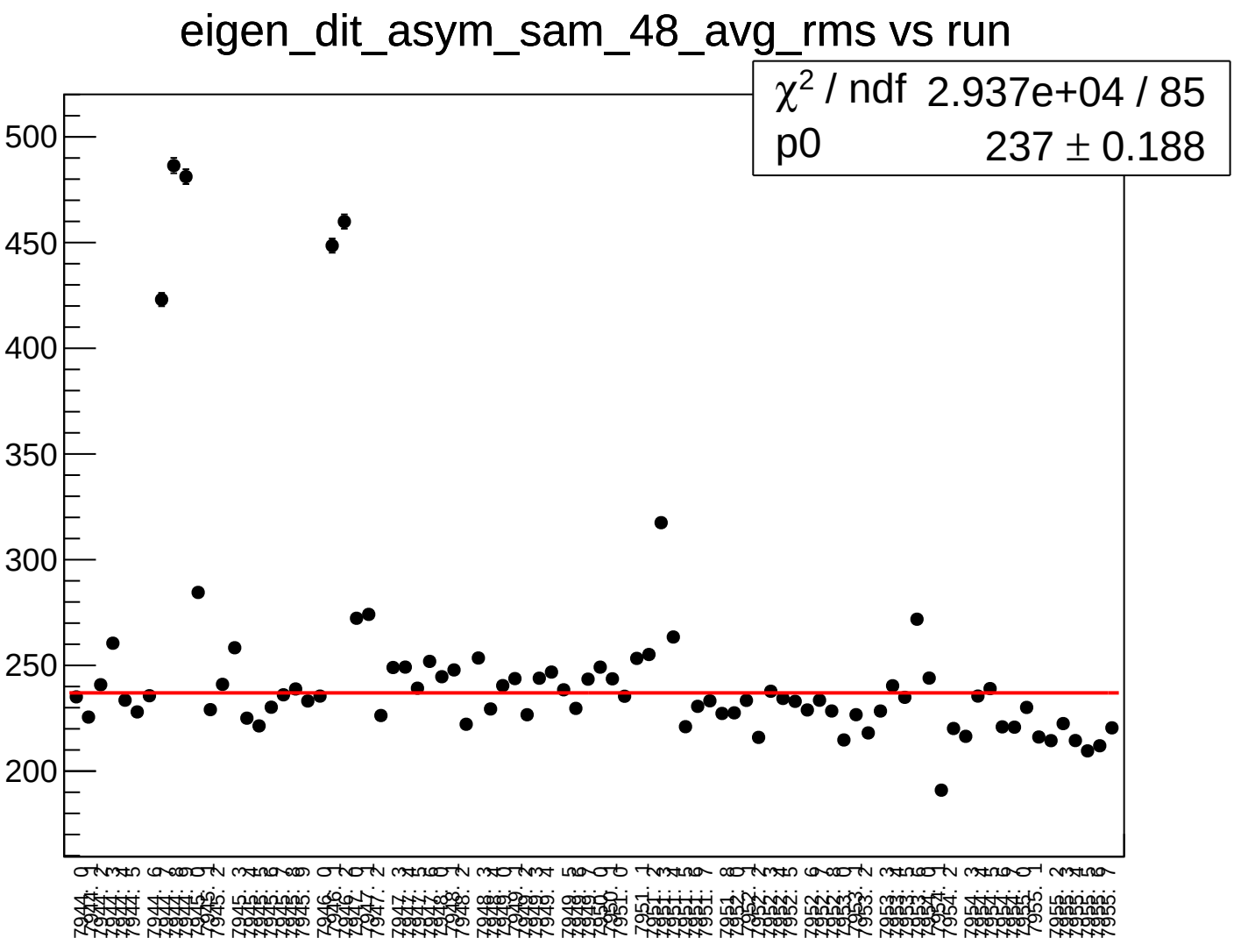

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.94 / 85
p0 −2467 ± 3175
100
50
0
−50
−100
pull
Entries 86
Mean 1.038e+04
Std Dev 0
2
1
0
−1
−2

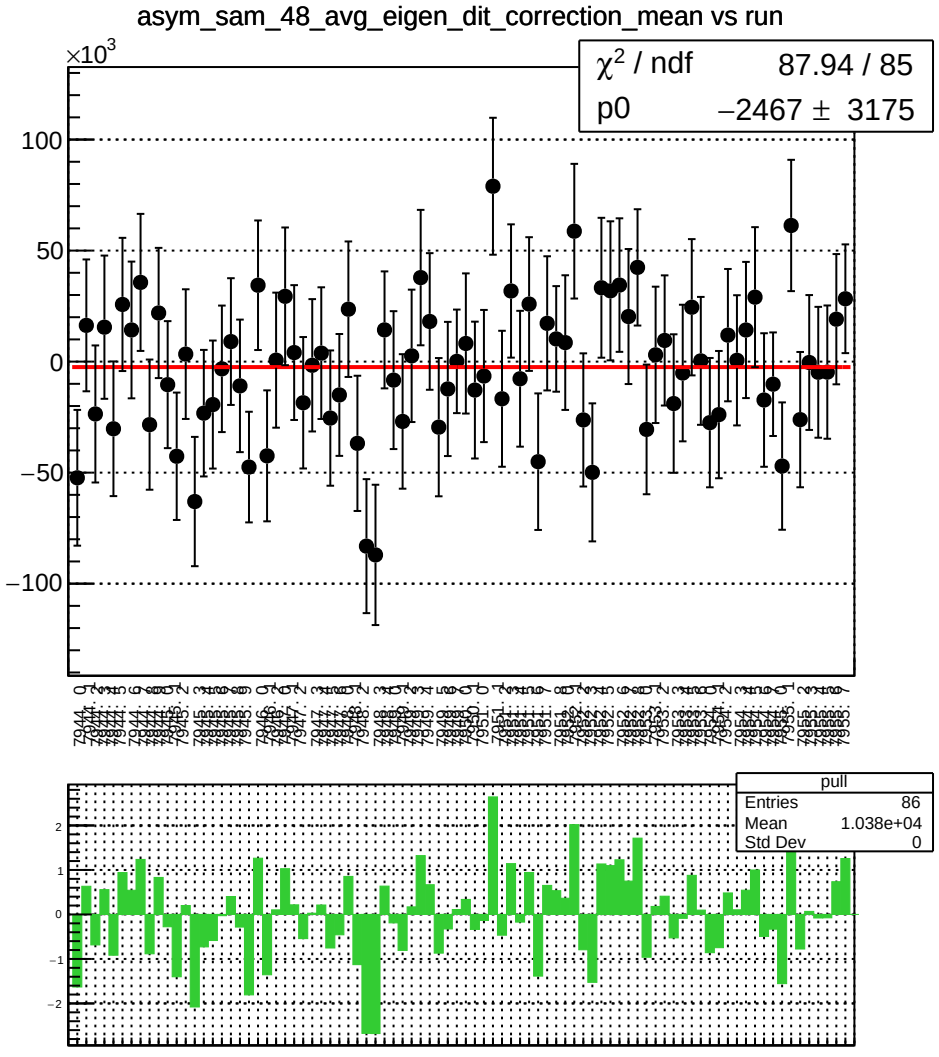

pull1D
Entries 86
Mean 0.0004649
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

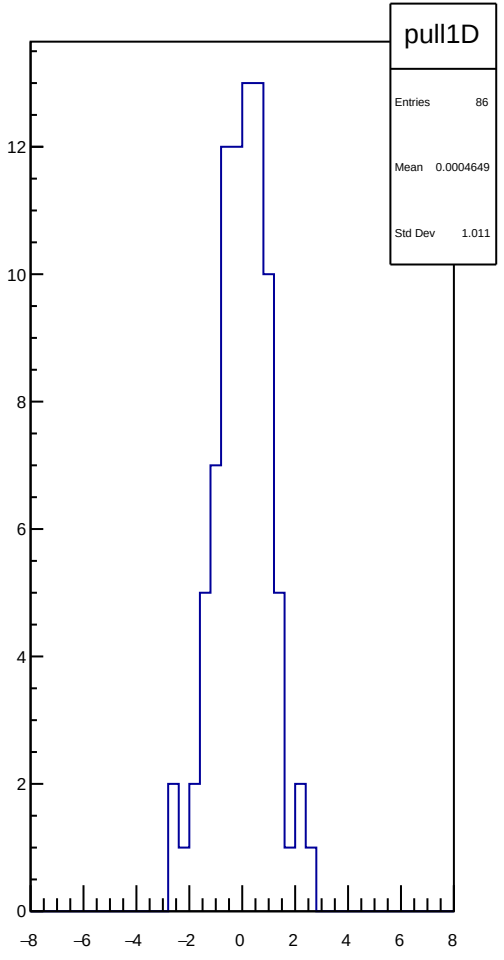

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1155 / 85
p0 2856 ± 2.245
3100
3050
3000
2950
2900
2850
2800
2750
2700
2650

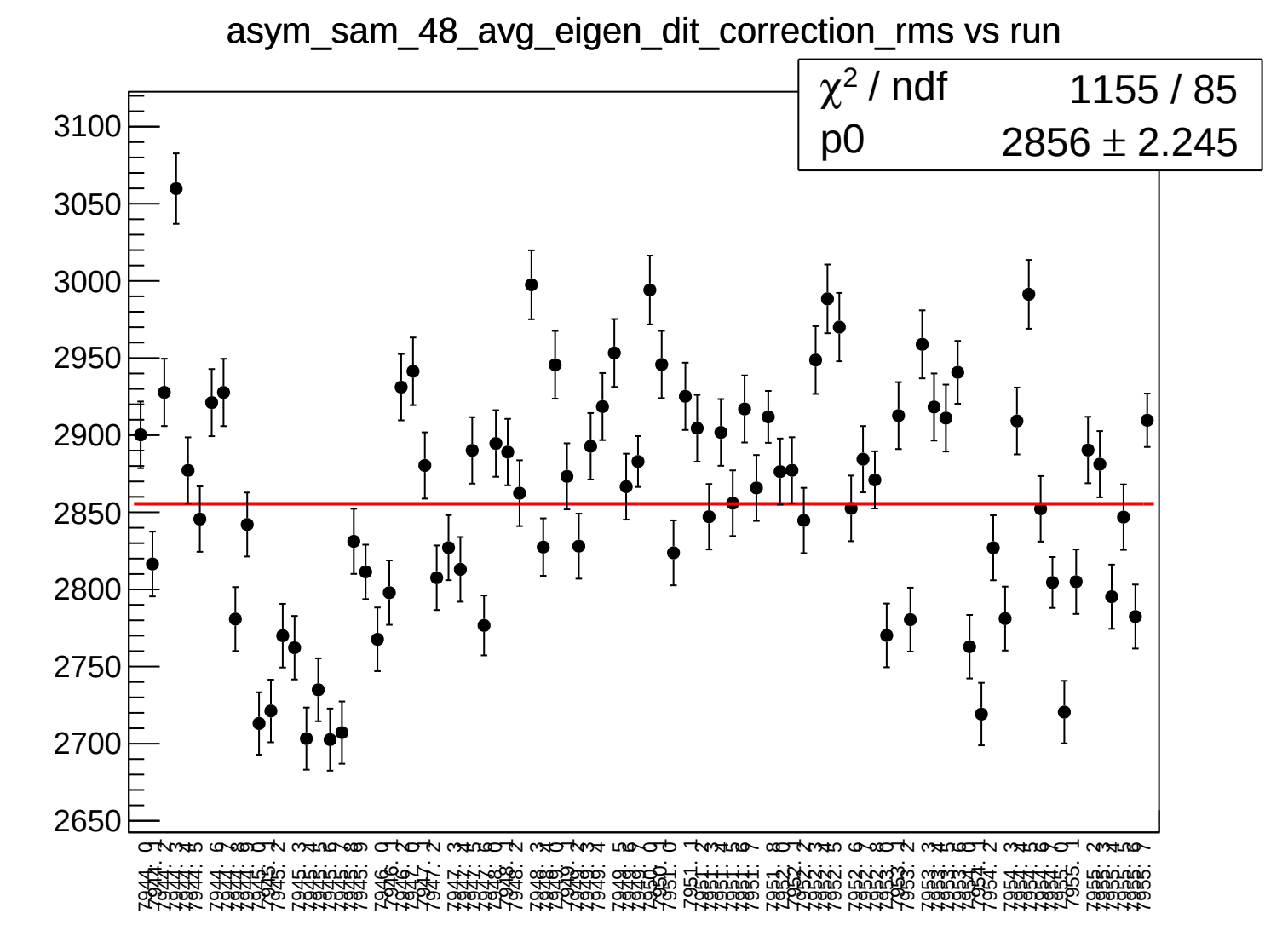

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 75.14 / 85
p0 38.89 ± 265.8
pull
Entries 86
Mean −77.84
Std Dev 0

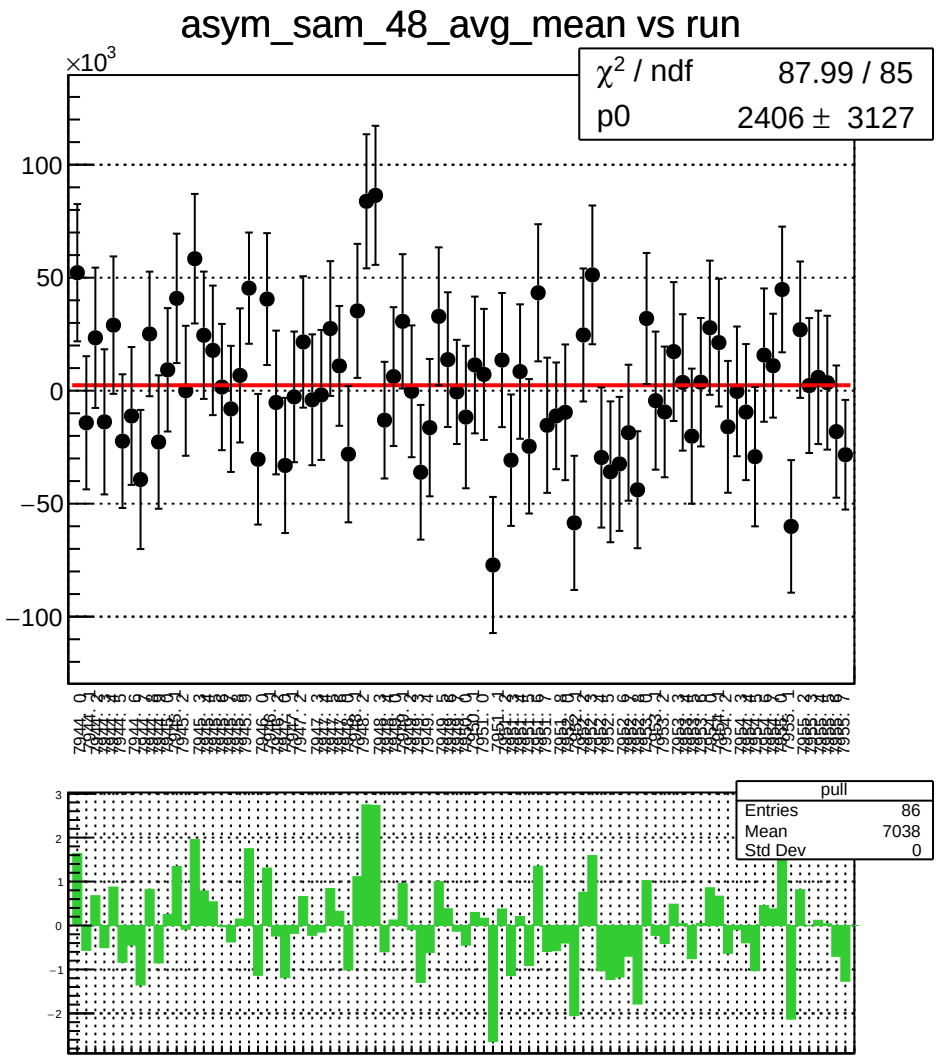

pull1D
Entries 86
Mean −0.0139
Std Dev 0.9346

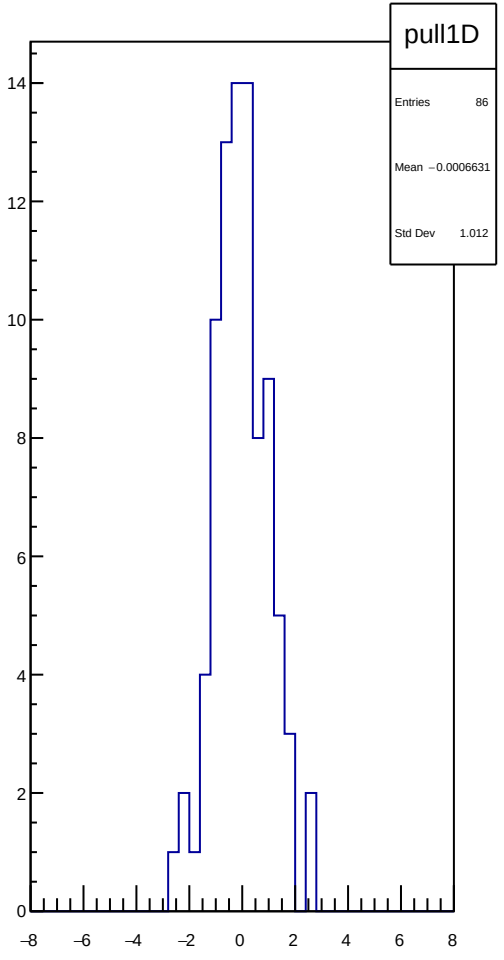

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 2.937e+04 / 85
p0 237 ± 0.188
500
450
400
350
300
250
200

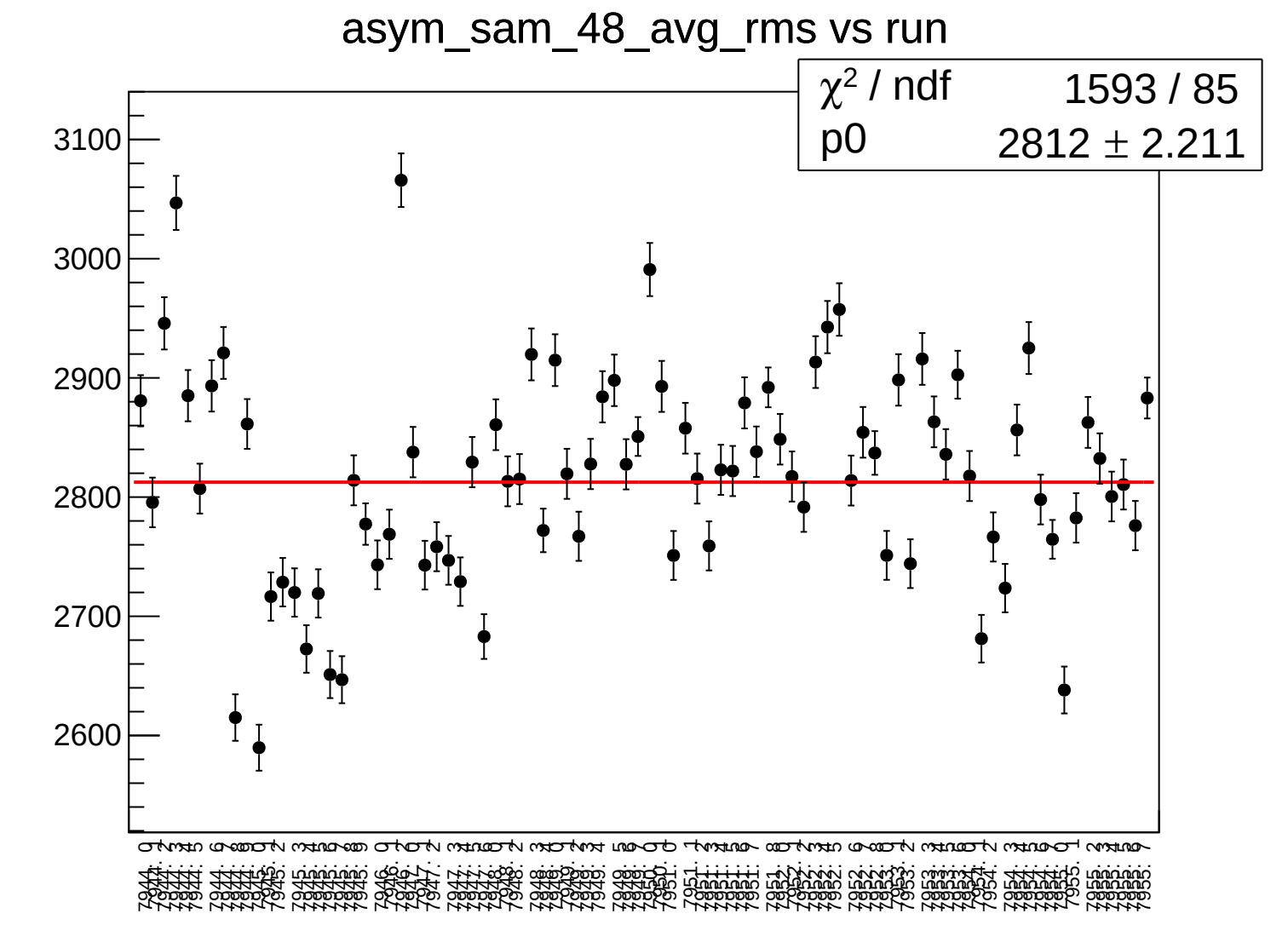

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.94 / 85
p0 −2467 ± 3175
100
50
0
−50
−100
pull
Entries 86
Mean 1.038e+04
Std Dev 0
2
1
0
−1
−2

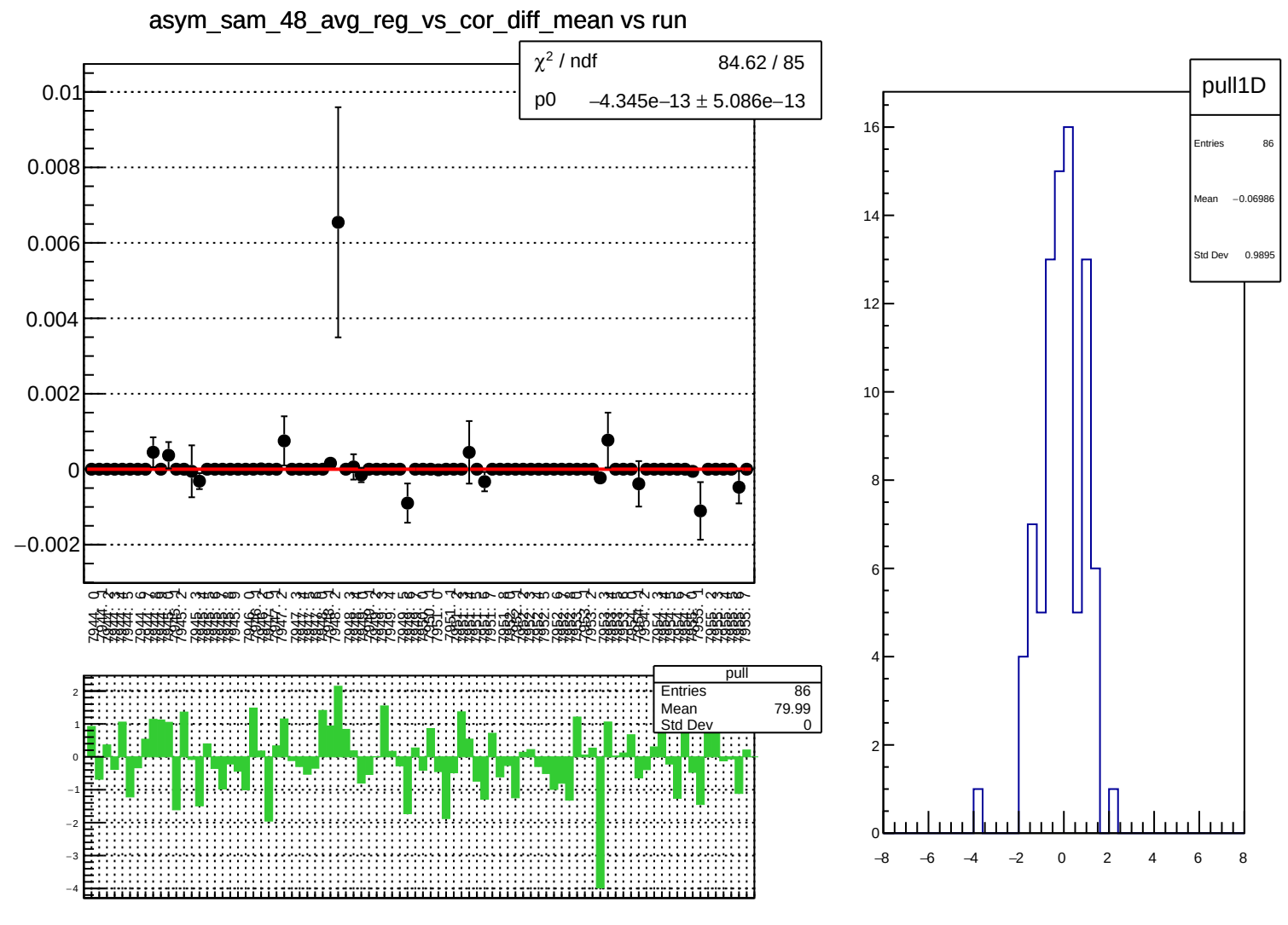

pull1D
Entries 86
Mean 0.0004649
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

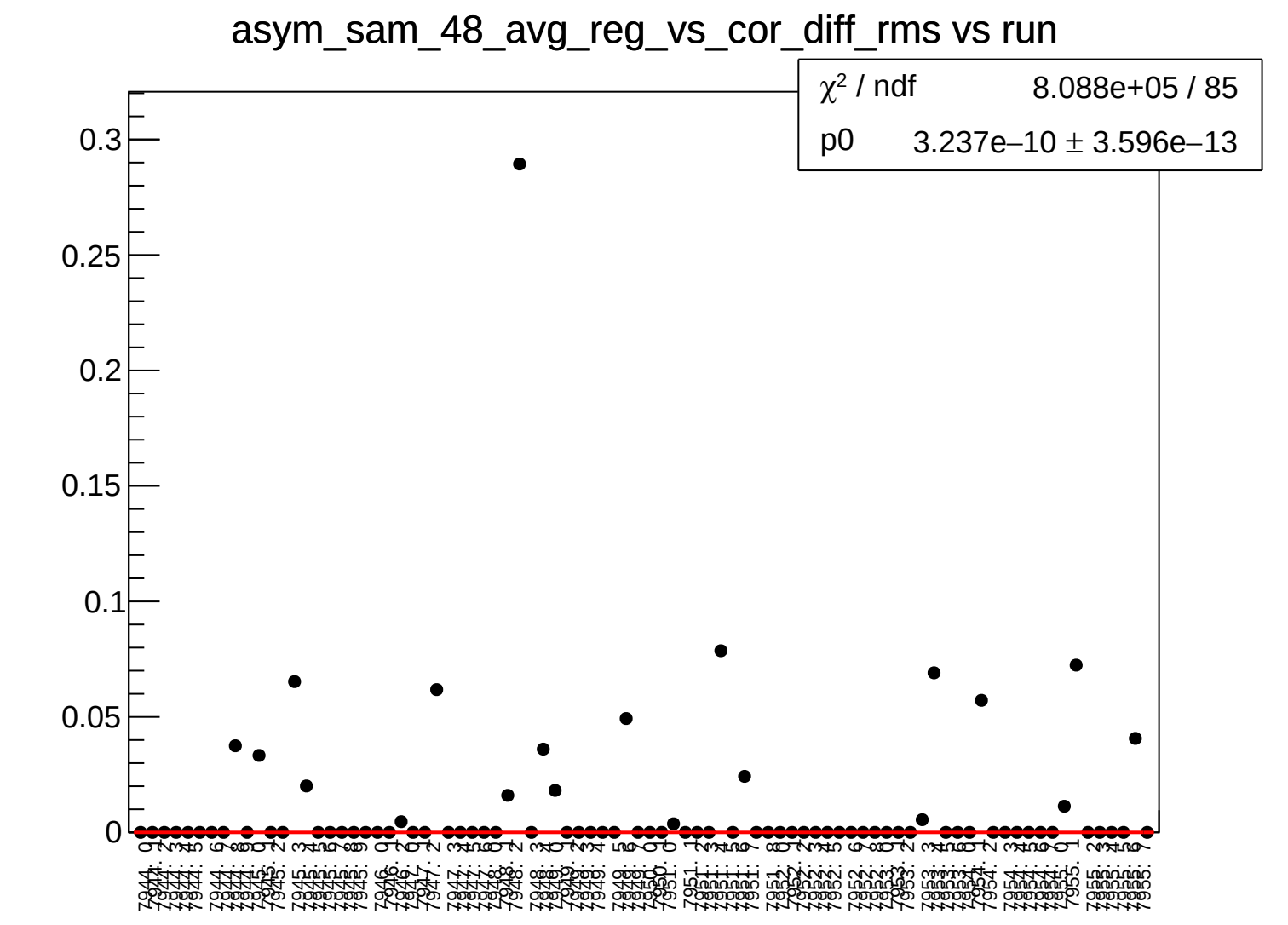

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1155 / 85
p0 2856 ± 2.245
3100
3050
3000
2950
2900
2850
2800
2750
2700
2650

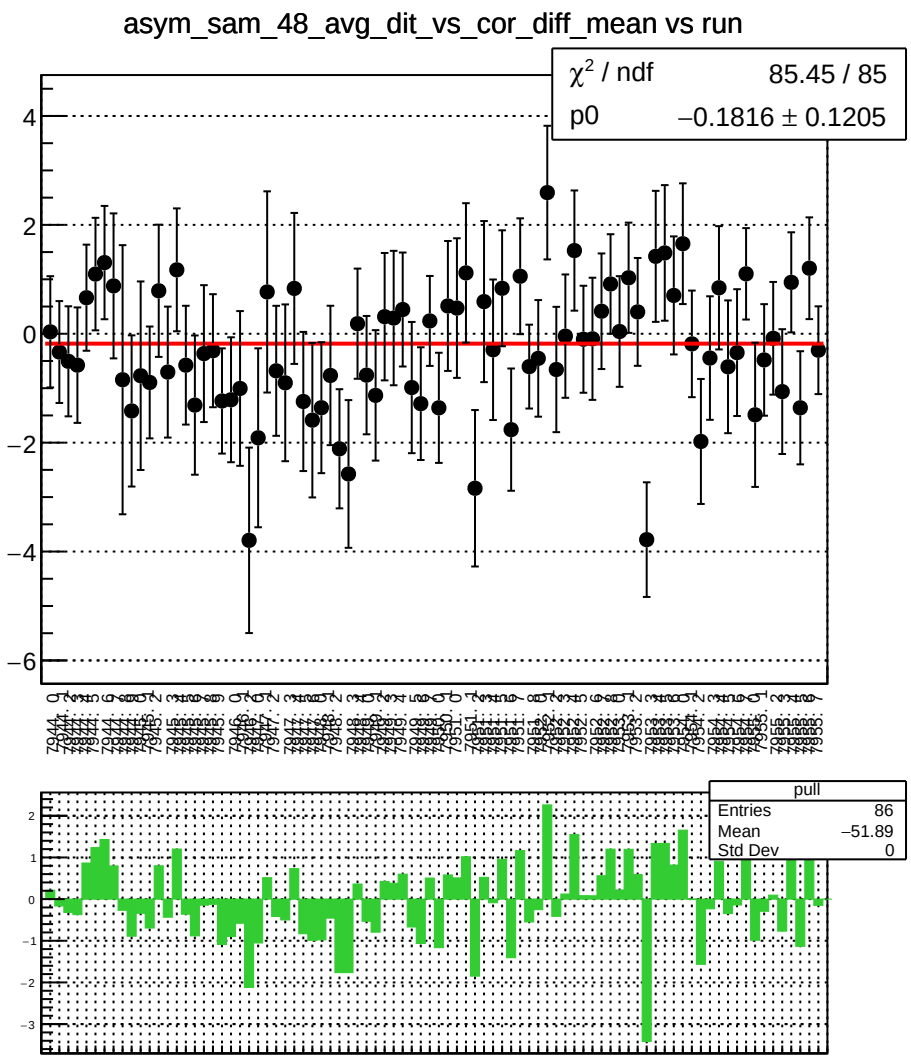

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 87.99 / 85
p0 2406 ± 3127
100
50
0
−50
−100
pull
Entries 86
Mean 7038
Std Dev 0
3
2
1
0
−1
−2

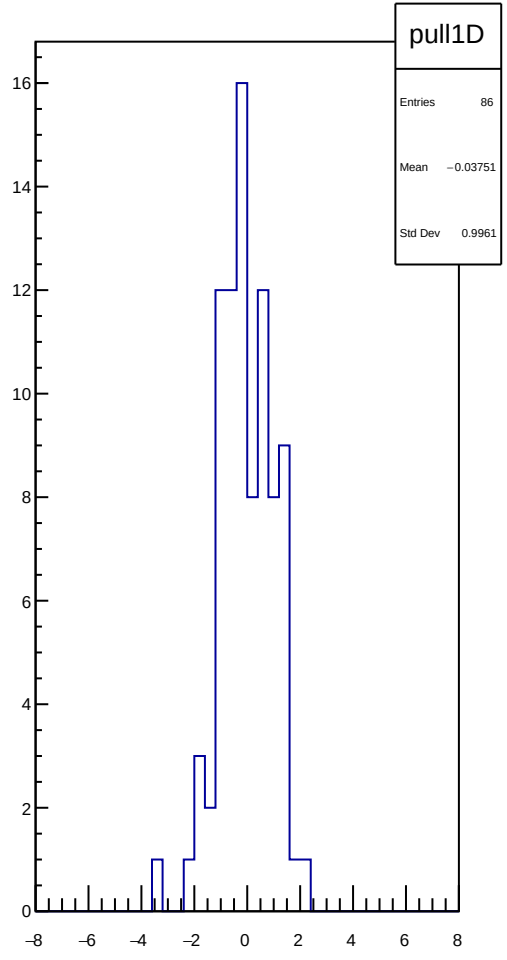

pull1D
Entries 86
Mean −0.0006631
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

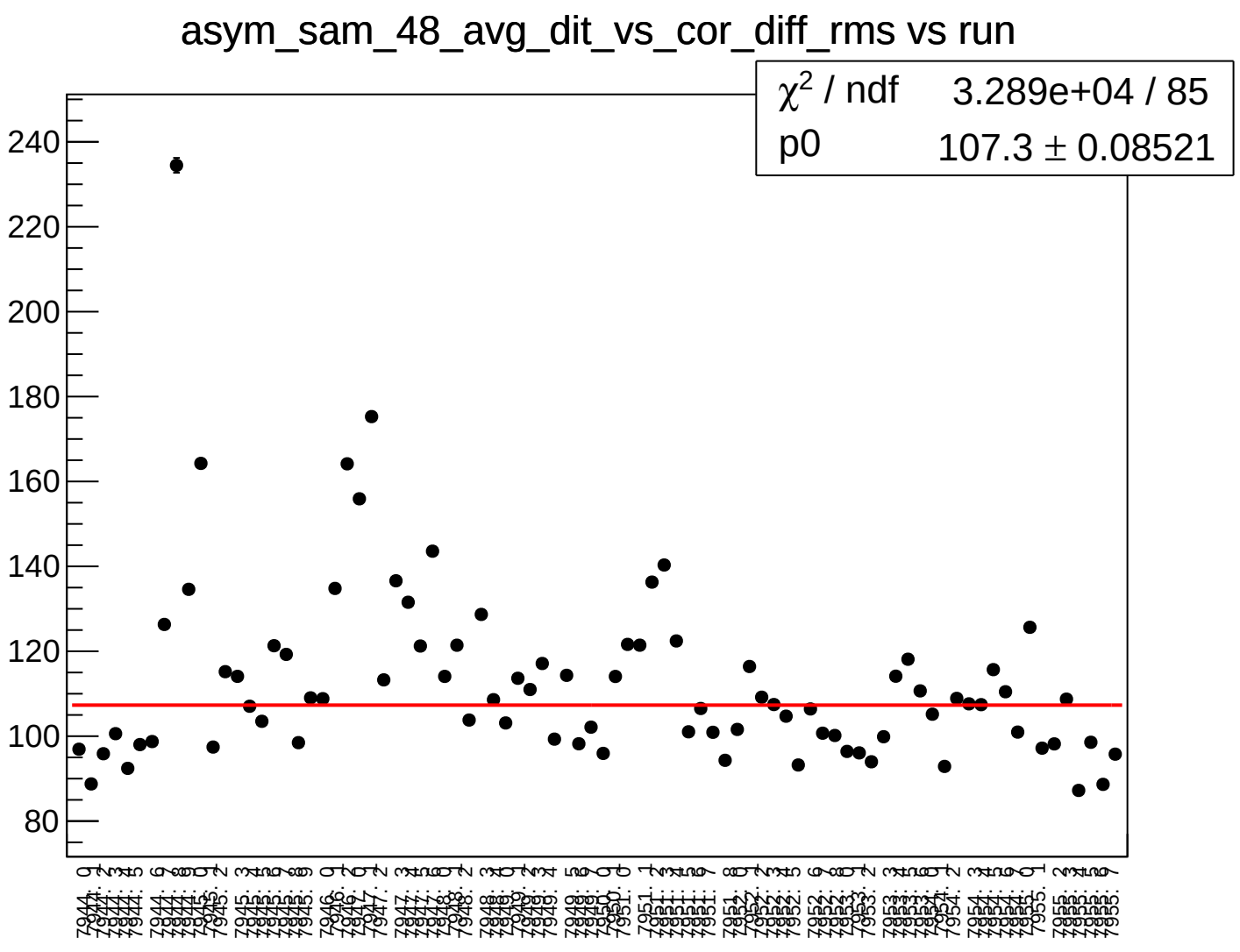

asym_sam_48_avg_rms vs run
χ² / ndf 1593 / 85
p0 2812 ± 2.211
3100
3000
2900
2800
2700
2600

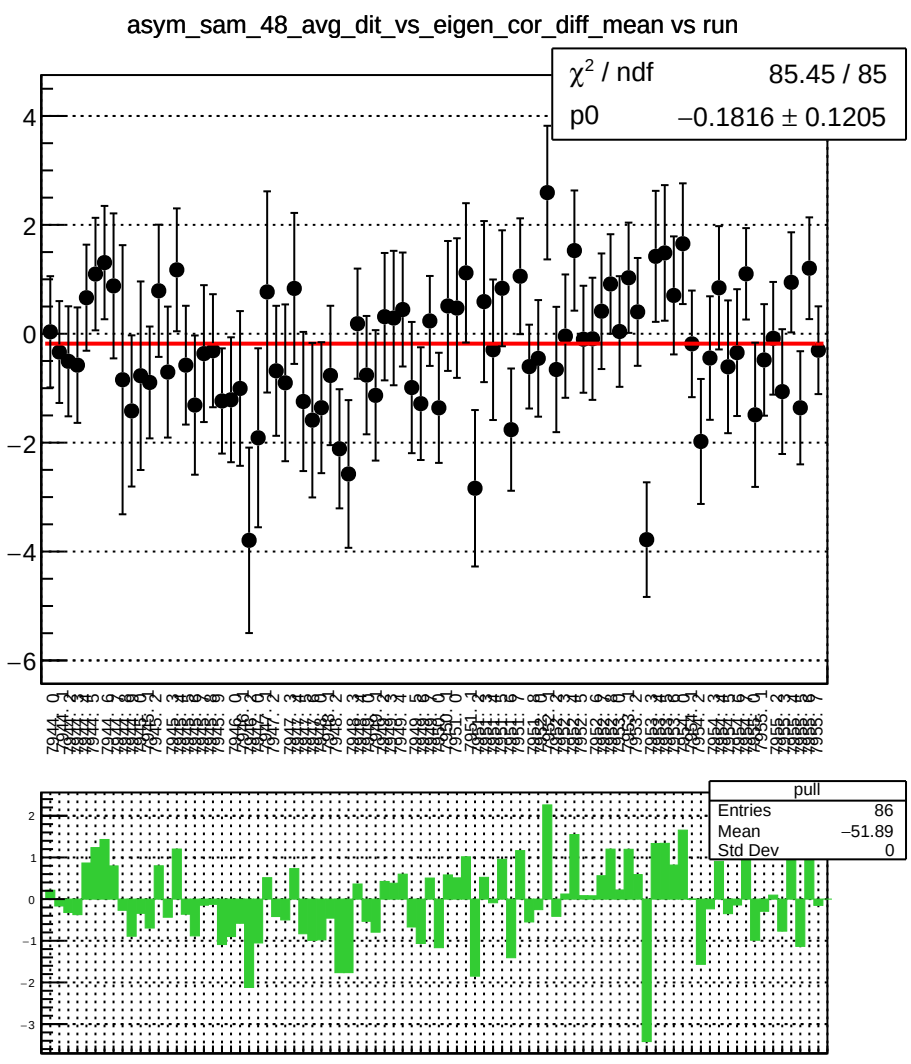

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.62 / 85
p0 −4.345e−13 ± 5.086e−13
pull
Entries 86
Mean 79.99
Std Dev 0
pull1D
Entries 86
Mean −0.06986
Std Dev 0.9895

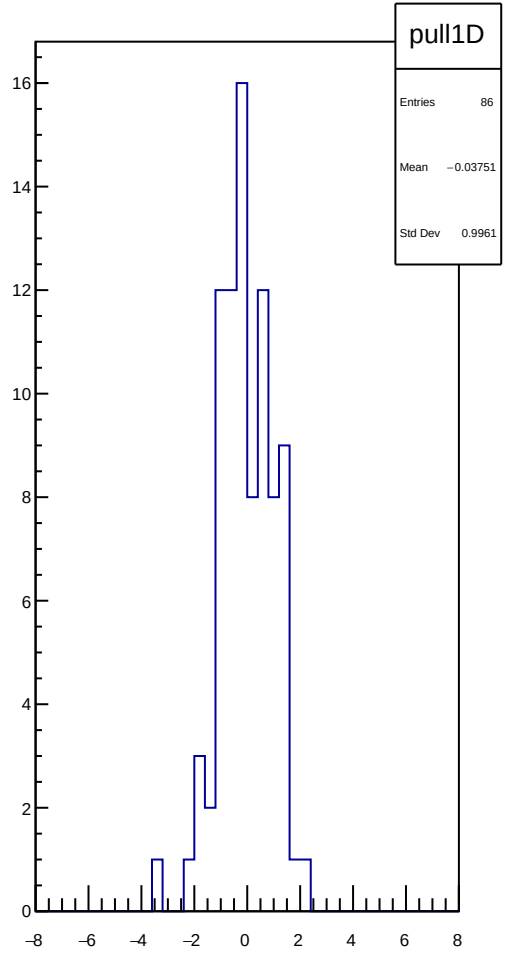

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.088e+05 / 85
p0 3.237e−10 ± 3.596e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

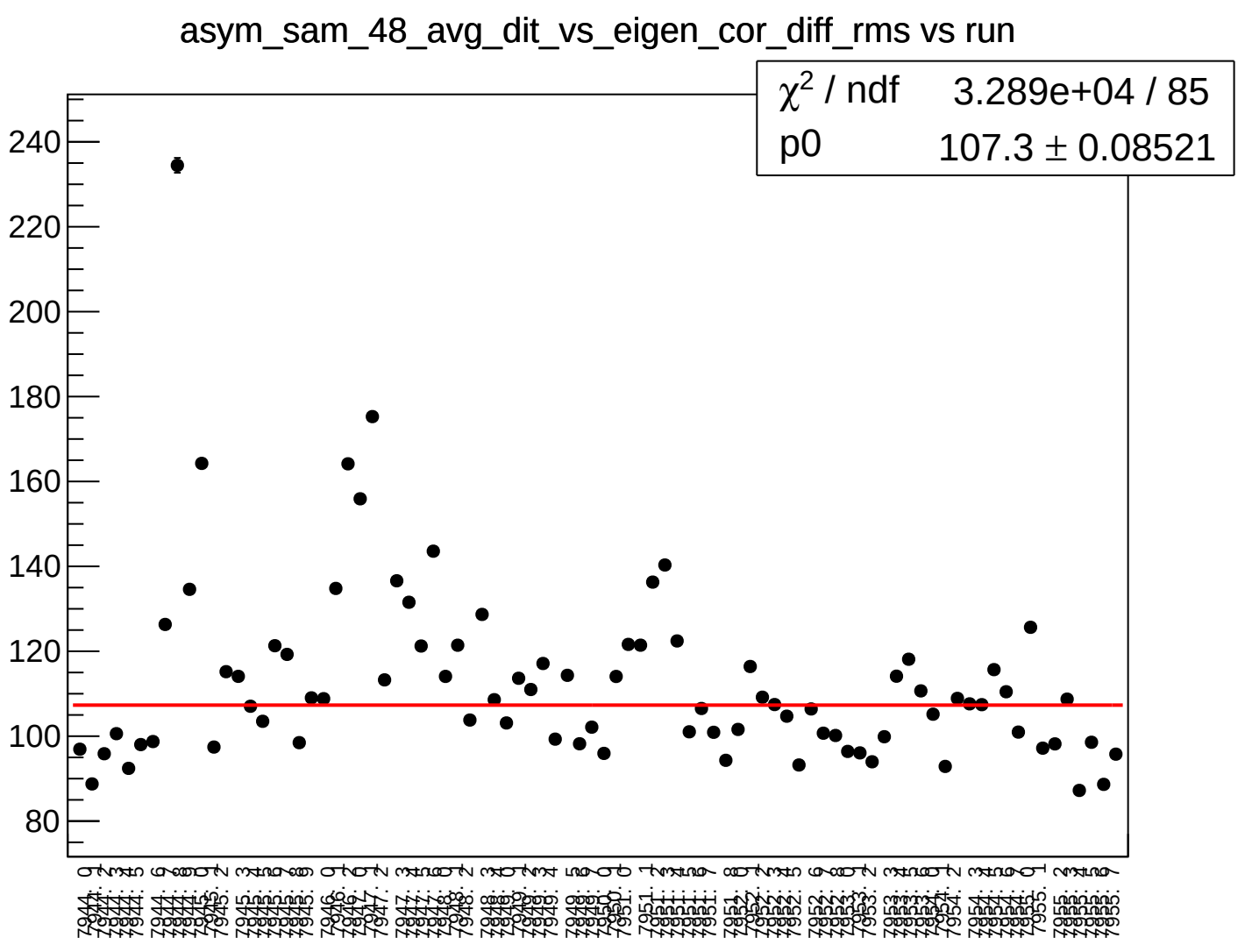

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.45 / 85
p0 −0.1816 ± 0.1205
pull
Entries 86
Mean −51.89
Std Dev 0

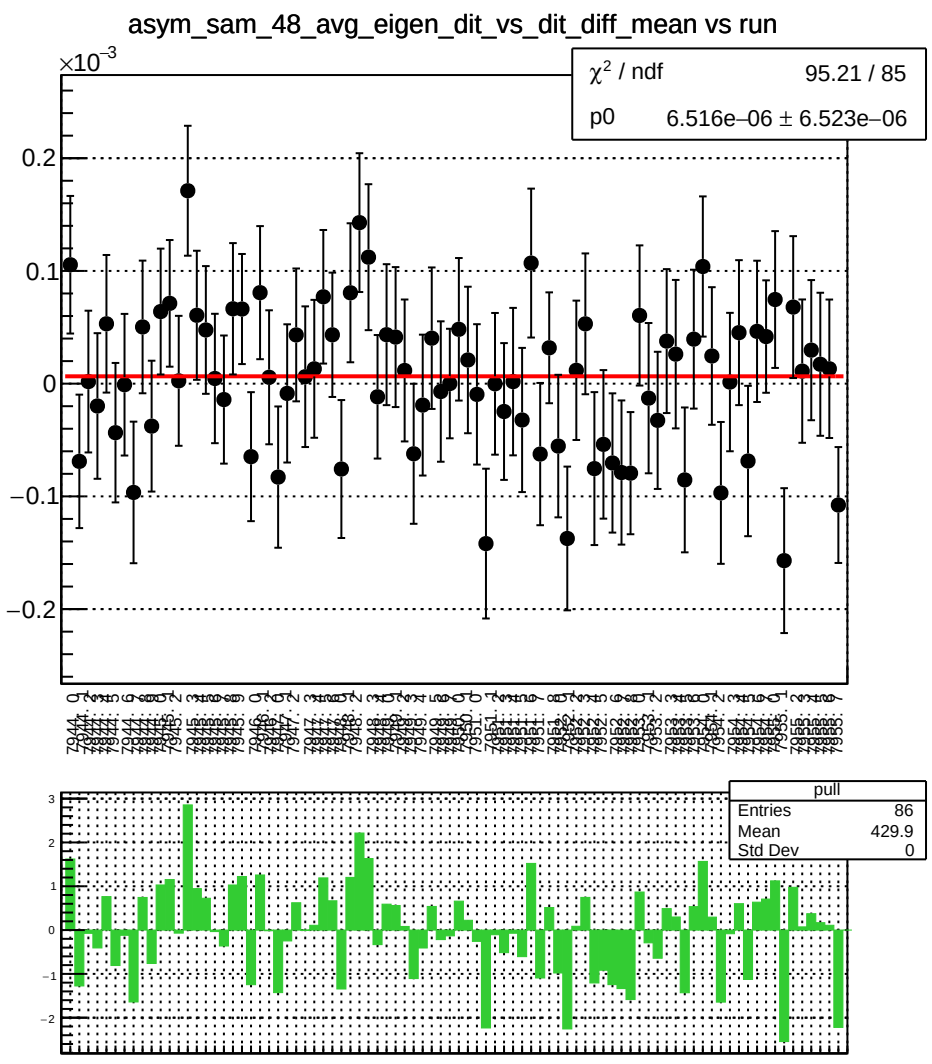

pull1D
Entries 86
Mean −0.03751
Std Dev 0.9961

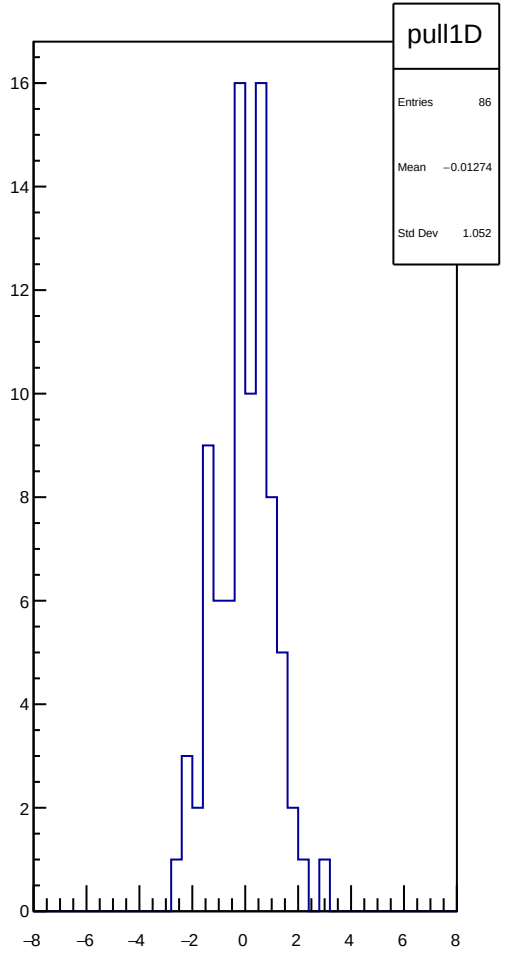

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.289e+04 / 85
p0 107.3 ± 0.08521
240
220
200
180
160
140
120
100
80

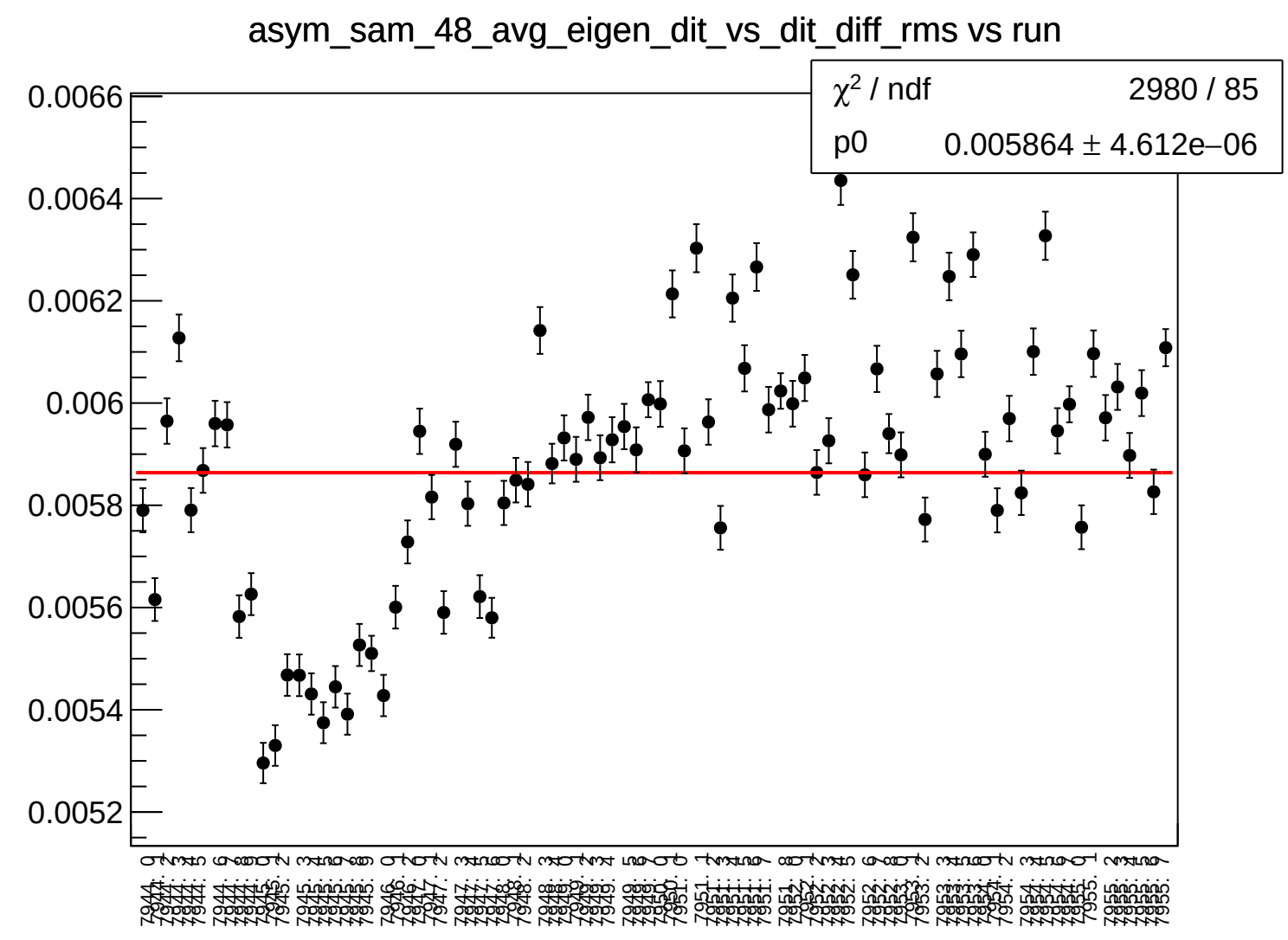

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.45 / 85
p0 −0.1816 ± 0.1205
pull
Entries 86
Mean −51.89
Std Dev 0

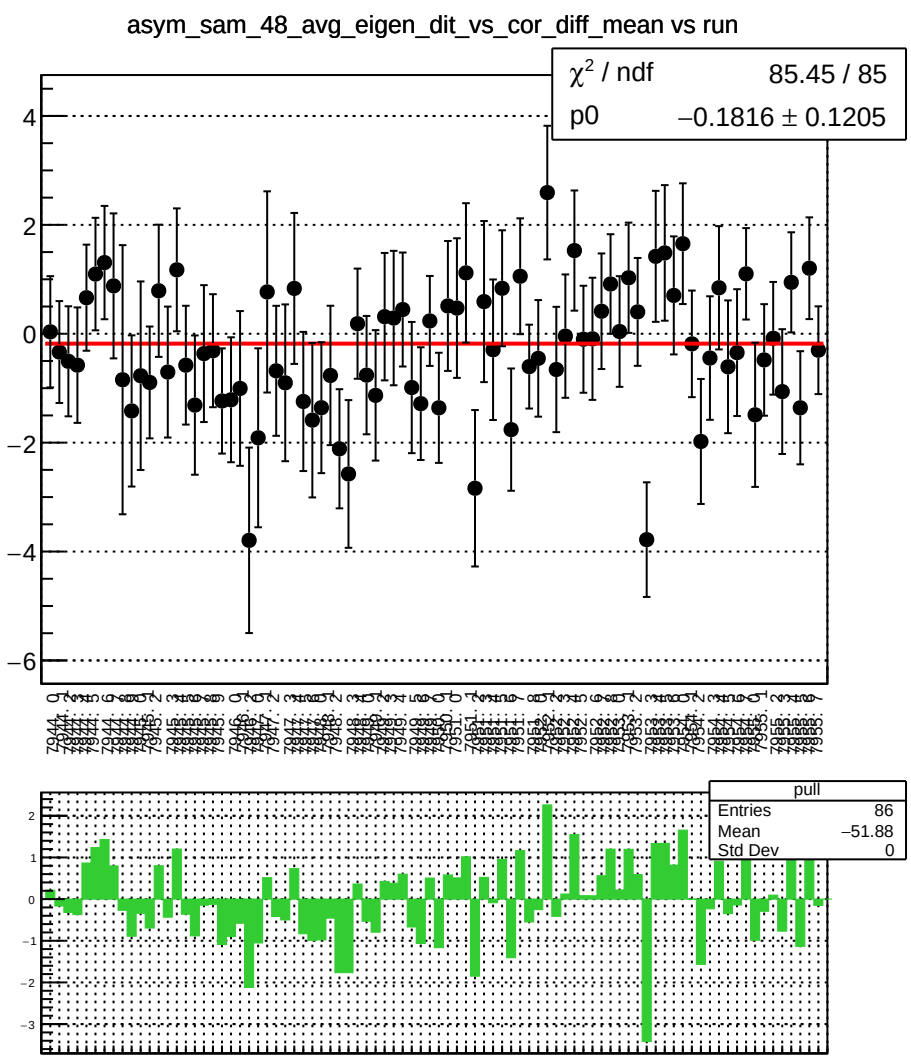

pull1D
Entries 86
Mean −0.03751
Std Dev 0.9961

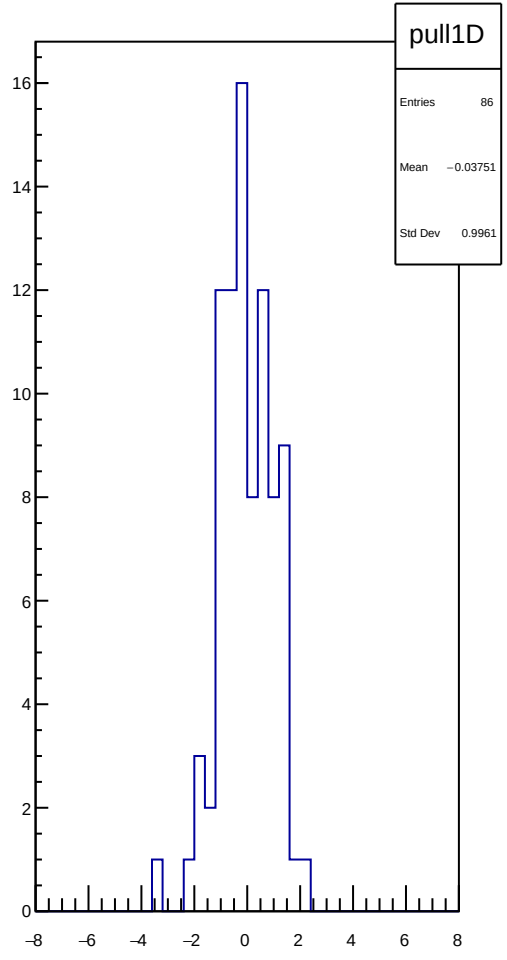

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.289e+04 / 85
p0 107.3 ± 0.08521
240
220
200
180
160
140
120
100
80

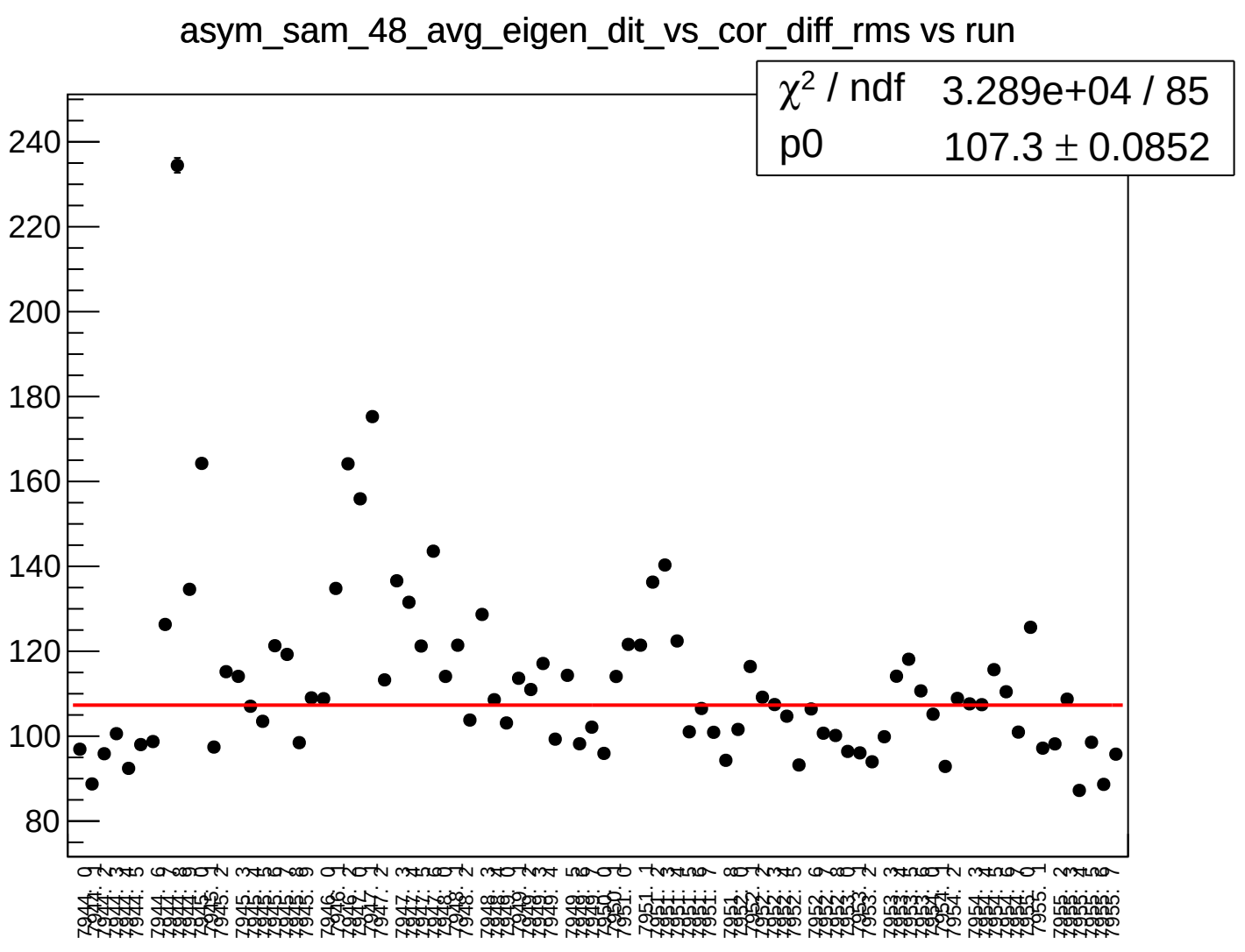

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.21 / 85
p0 6.516e−06 ± 6.523e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean 429.9
Std Dev 0
3
2
1
0
−1
−2

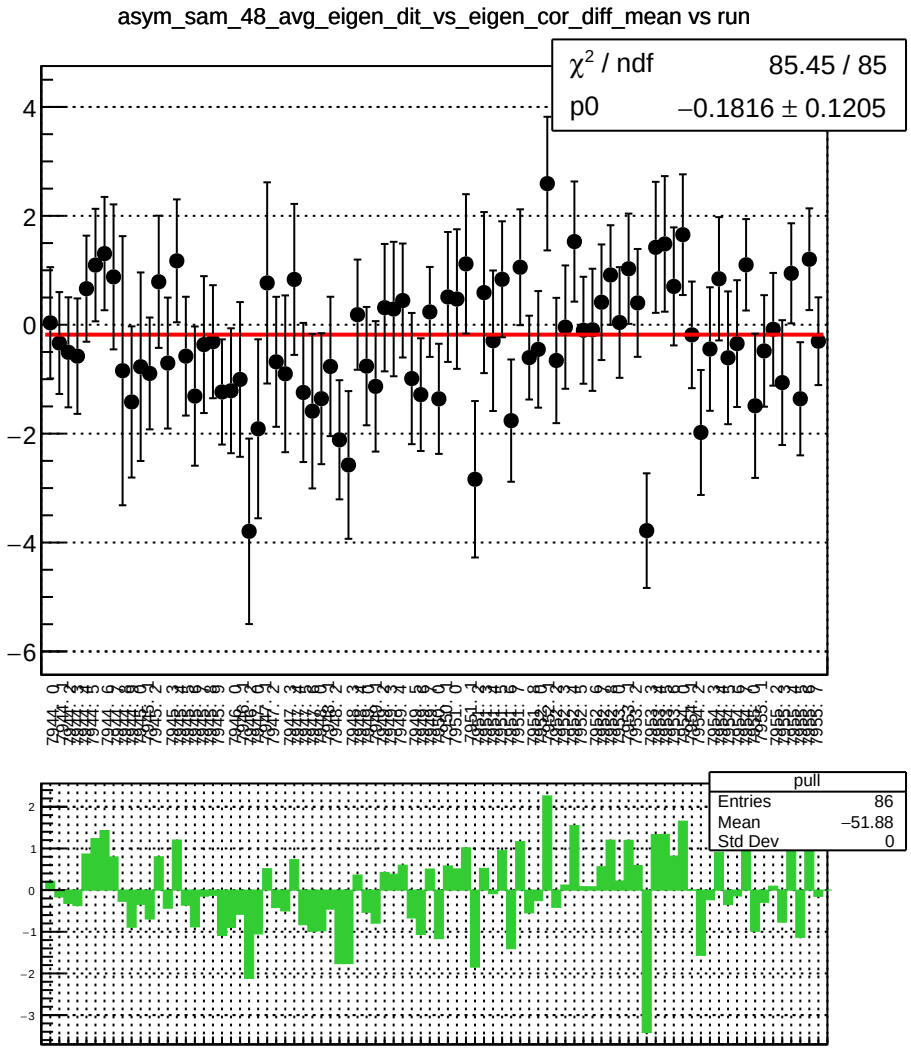

pull1D
Entries 86
Mean −0.01274
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

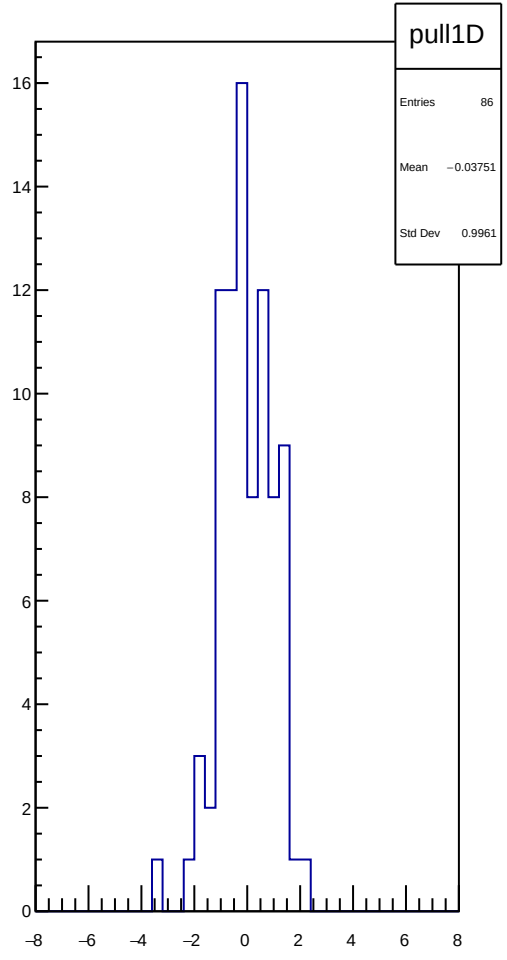

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2980 / 85
p0 0.005864 ± 4.612e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

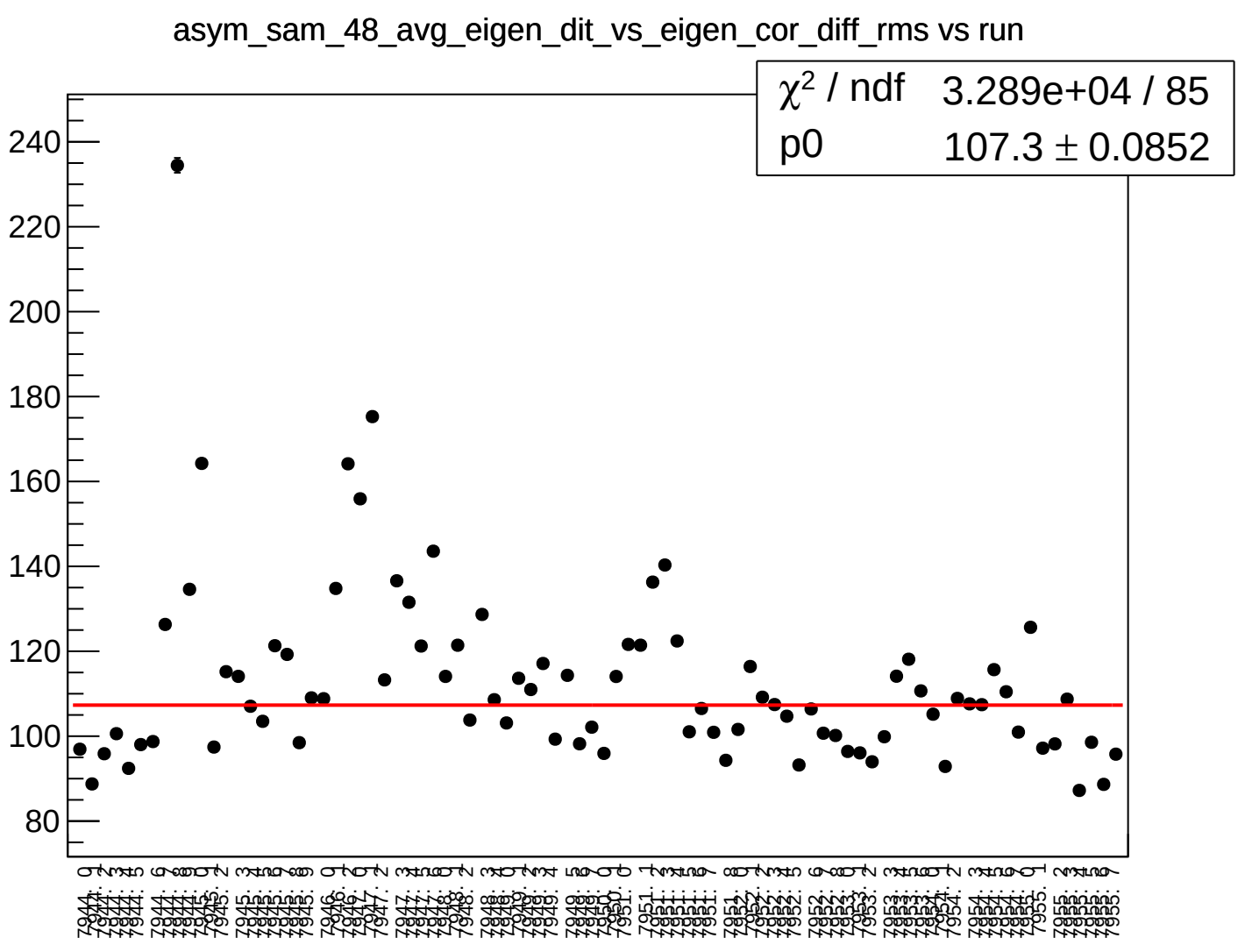

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.45 / 85
p0 −0.1816 ± 0.1205
pull
Entries 86
Mean −51.88
Std Dev 0

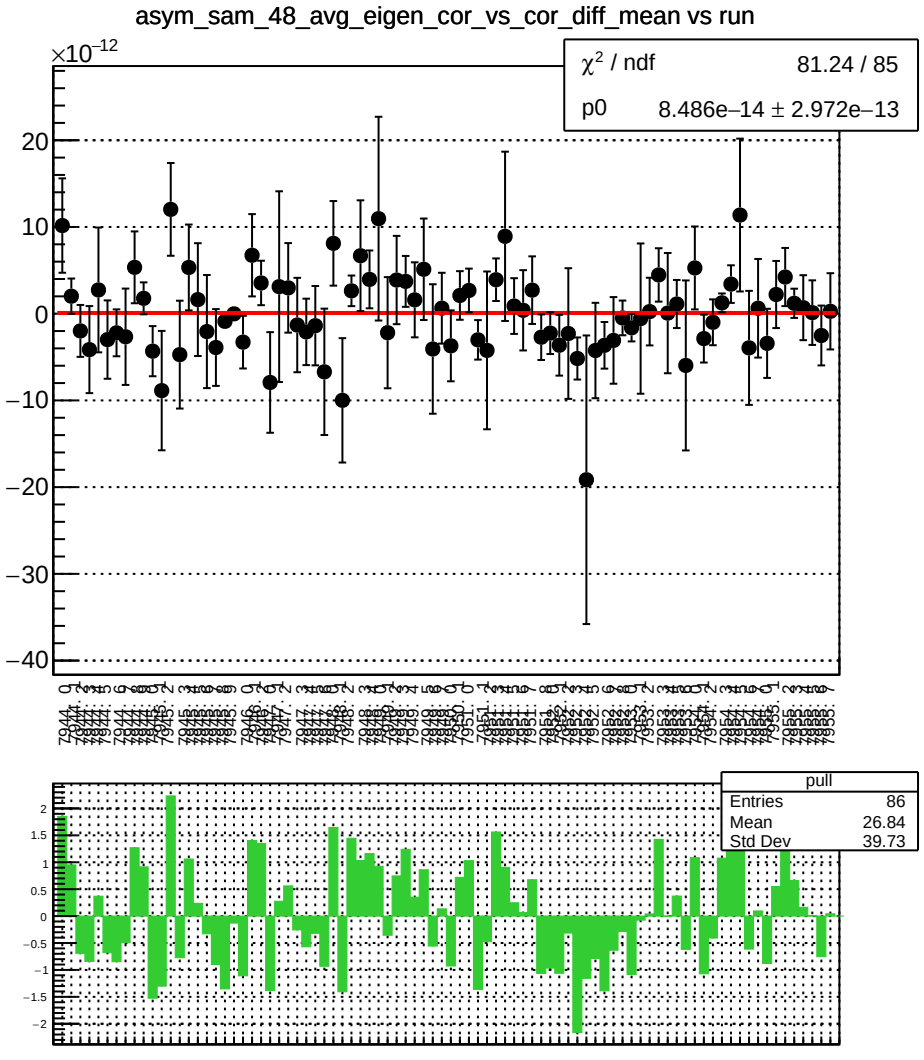

pull1D
Entries 86
Mean −0.03751
Std Dev 0.9961

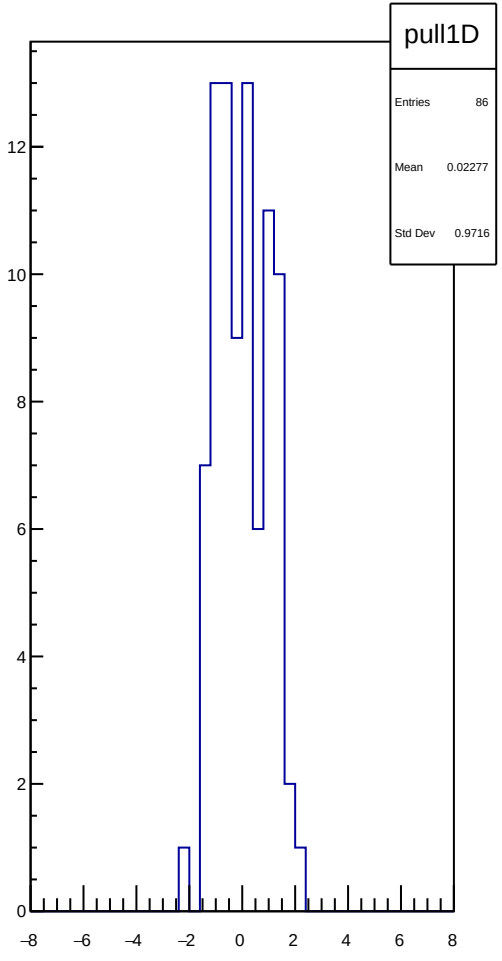

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.289e+04 / 85
p0 107.3 ± 0.0852
240
220
200
180
160
140
120
100
80

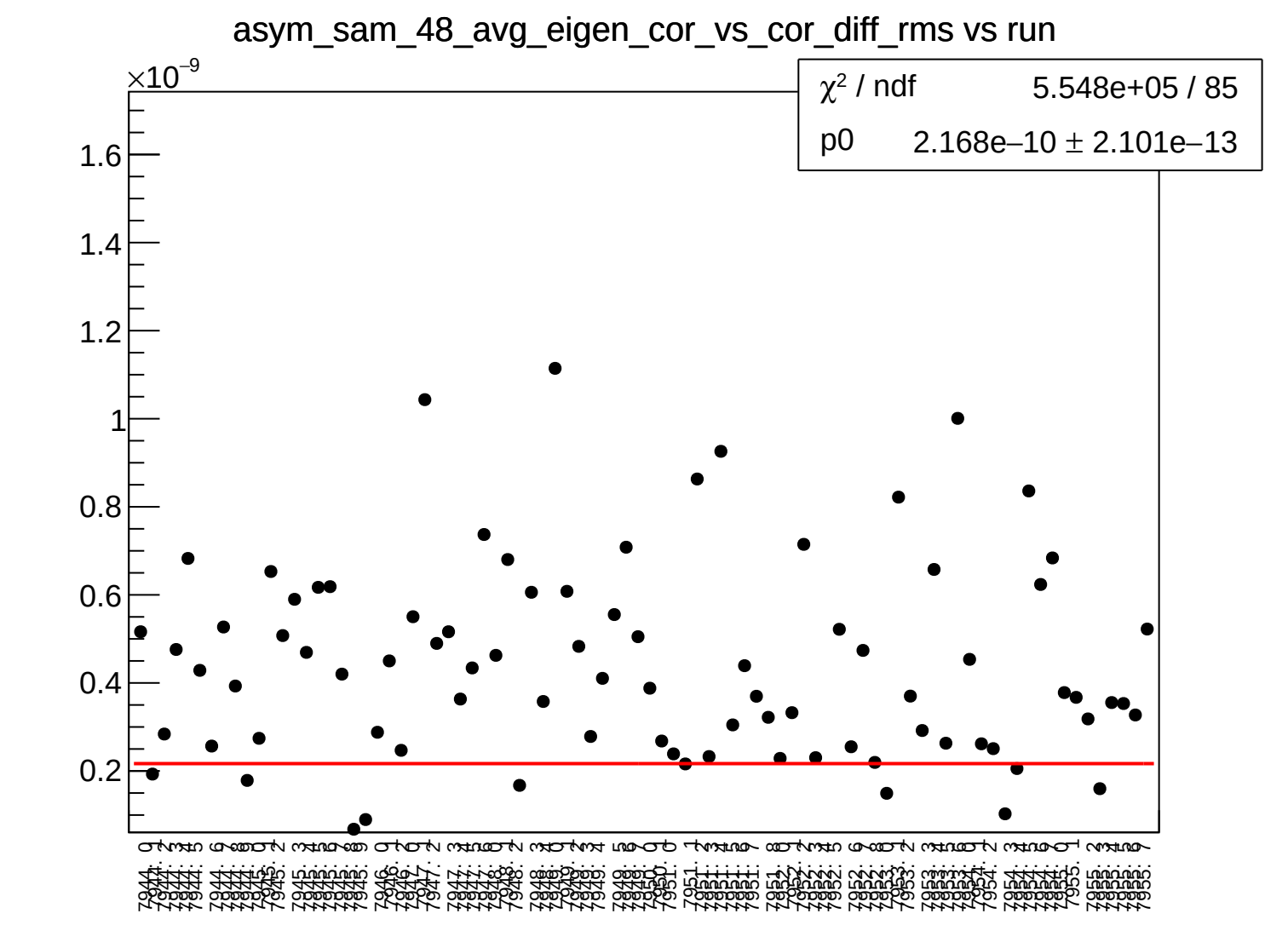

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.45 / 85
p0 −0.1816 ± 0.1205
pull
Entries 86
Mean −51.88
Std Dev 0

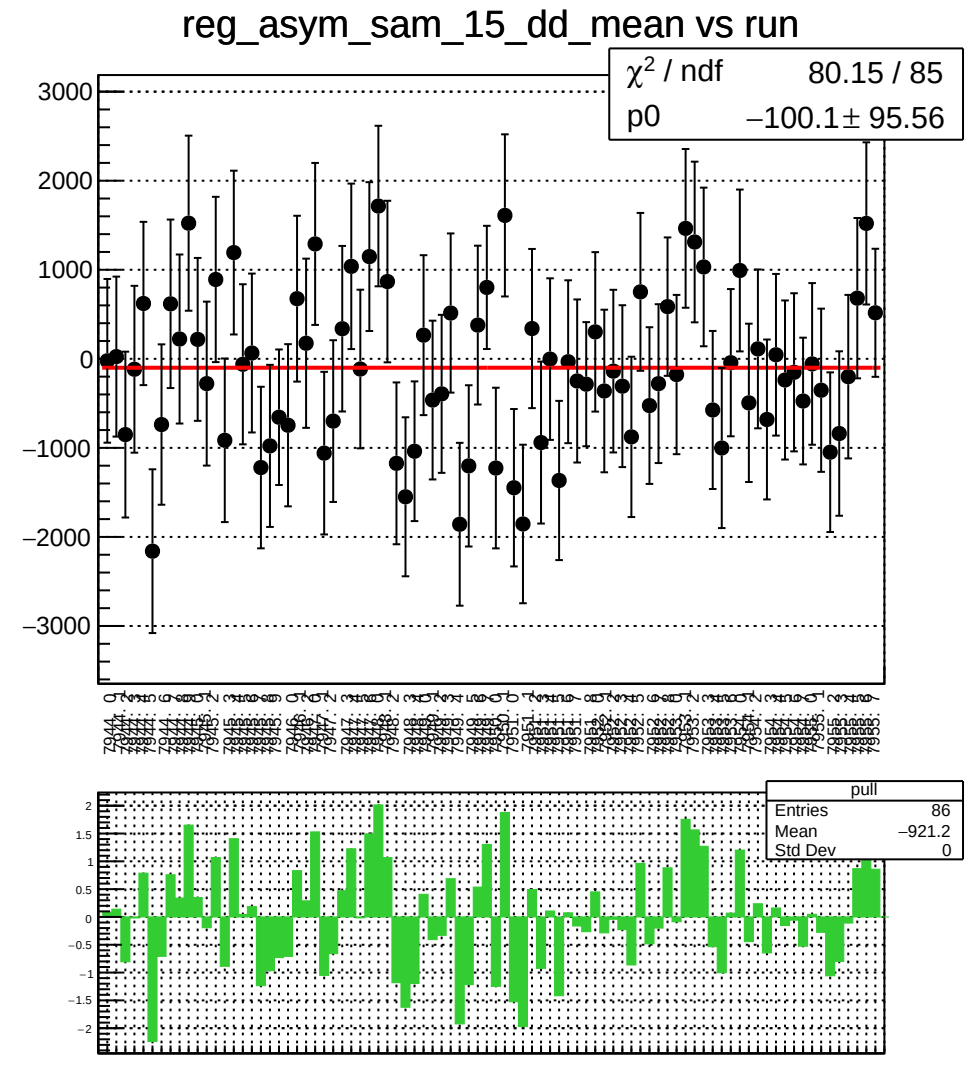

pull1D
Entries 86
Mean −0.03751
Std Dev 0.9961

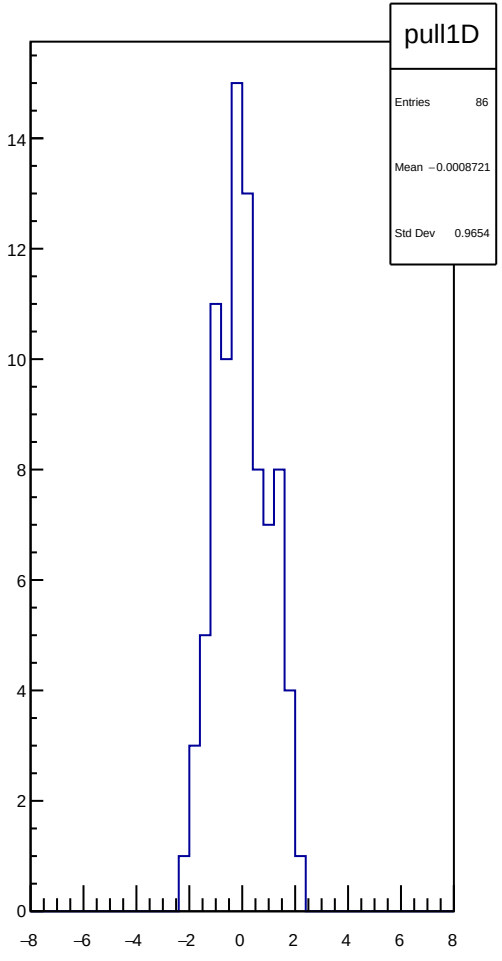

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.289e+04 / 85
p0 107.3 ± 0.0852
240
220
200
180
160
140
120
100
80

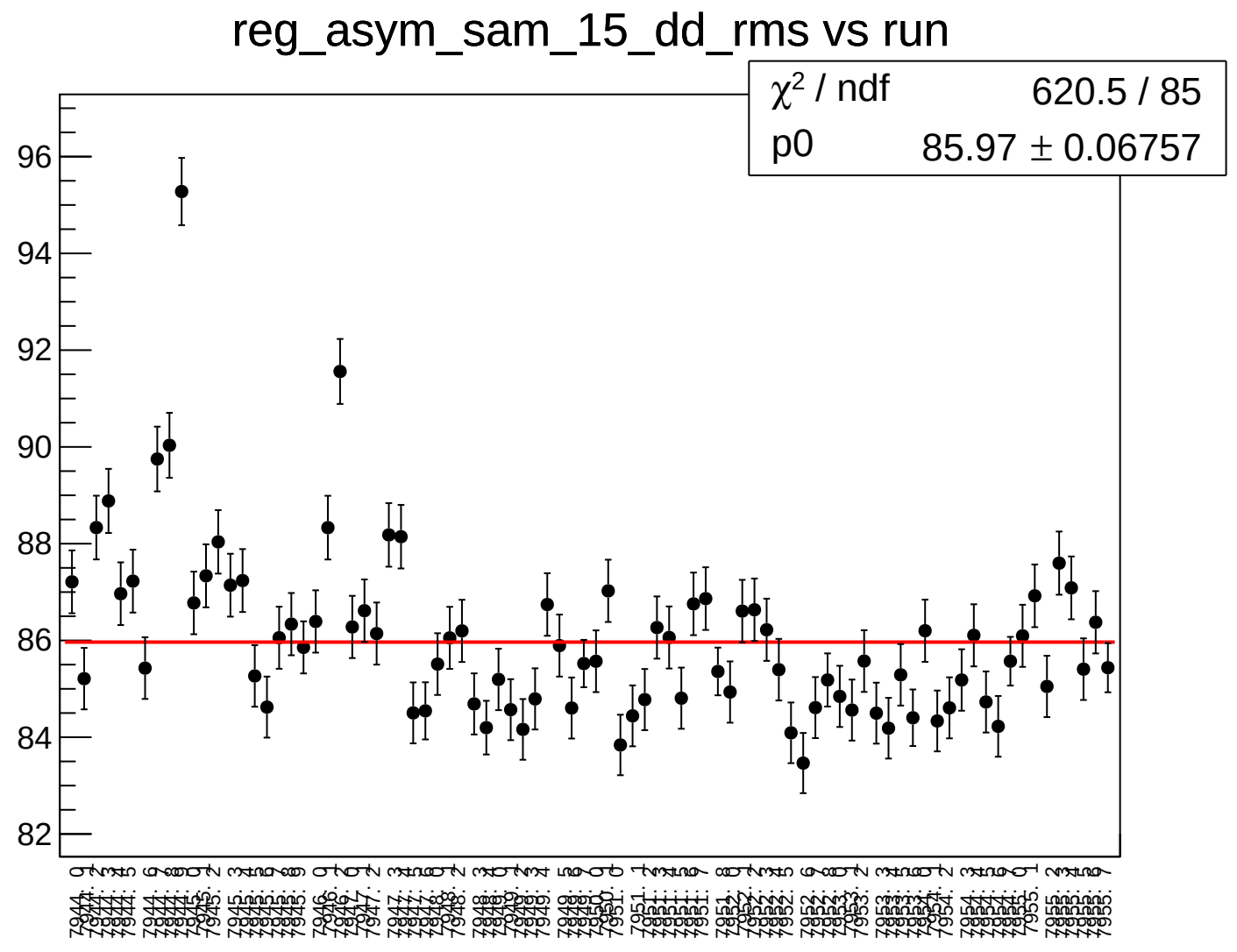

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.24 / 85
p0 8.486e−14 ± 2.972e−13
pull
Entries 86
Mean 26.84
Std Dev 39.73

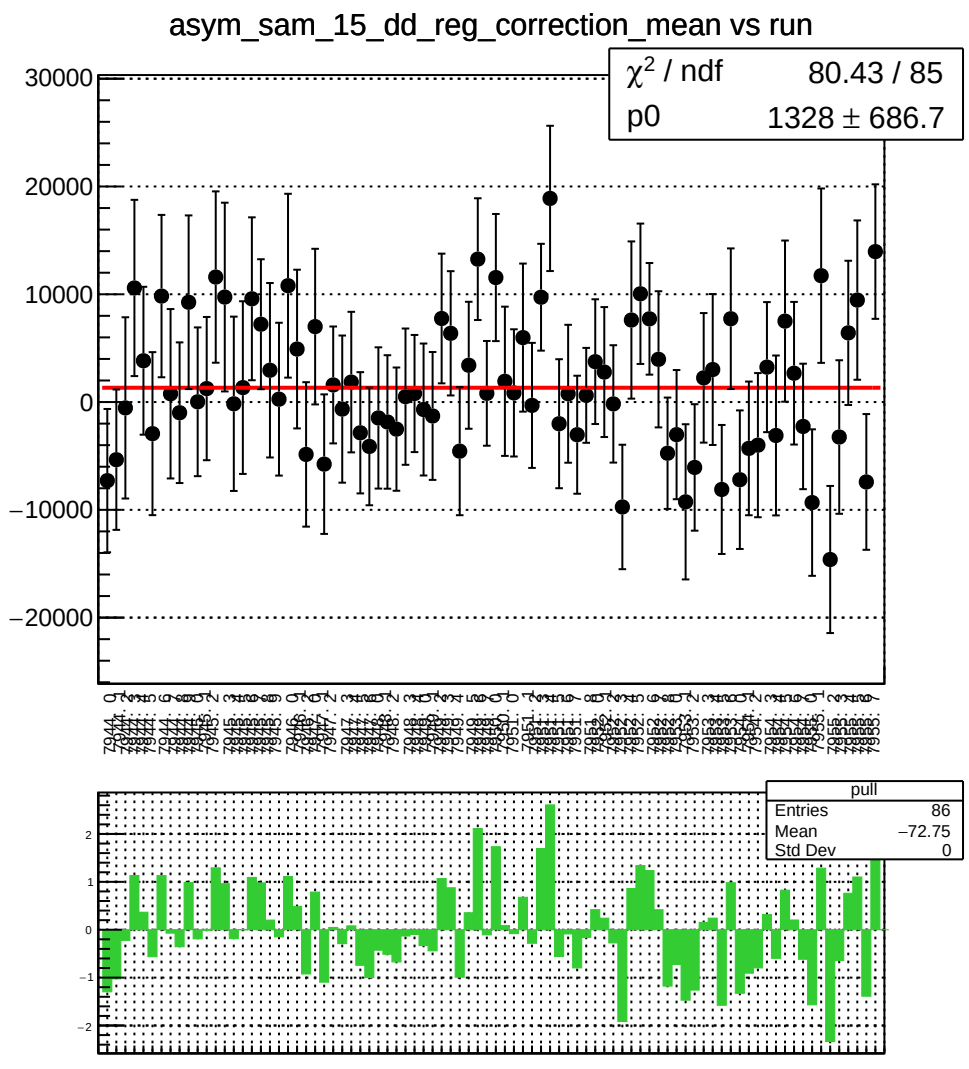

pull1D
Entries 86
Mean 0.02277
Std Dev 0.9716

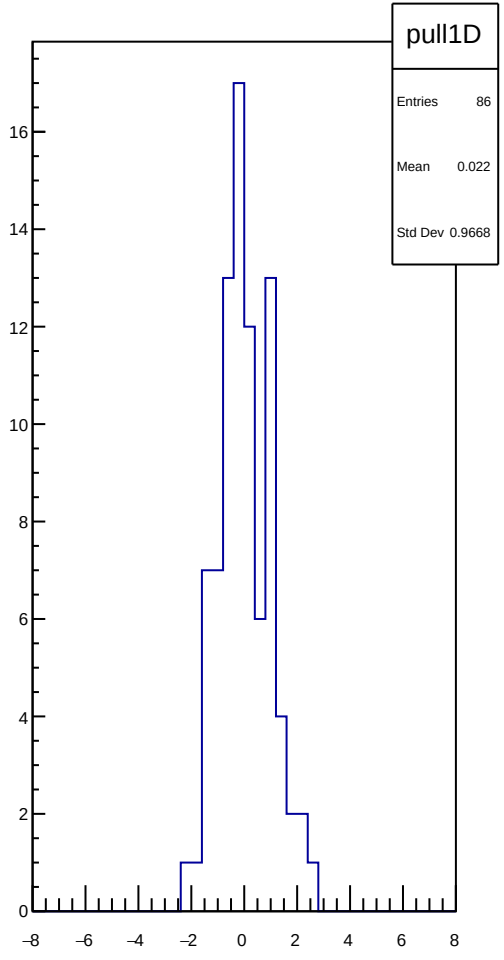

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.548e+05 / 85
p0 2.168e−10 ± 2.101e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

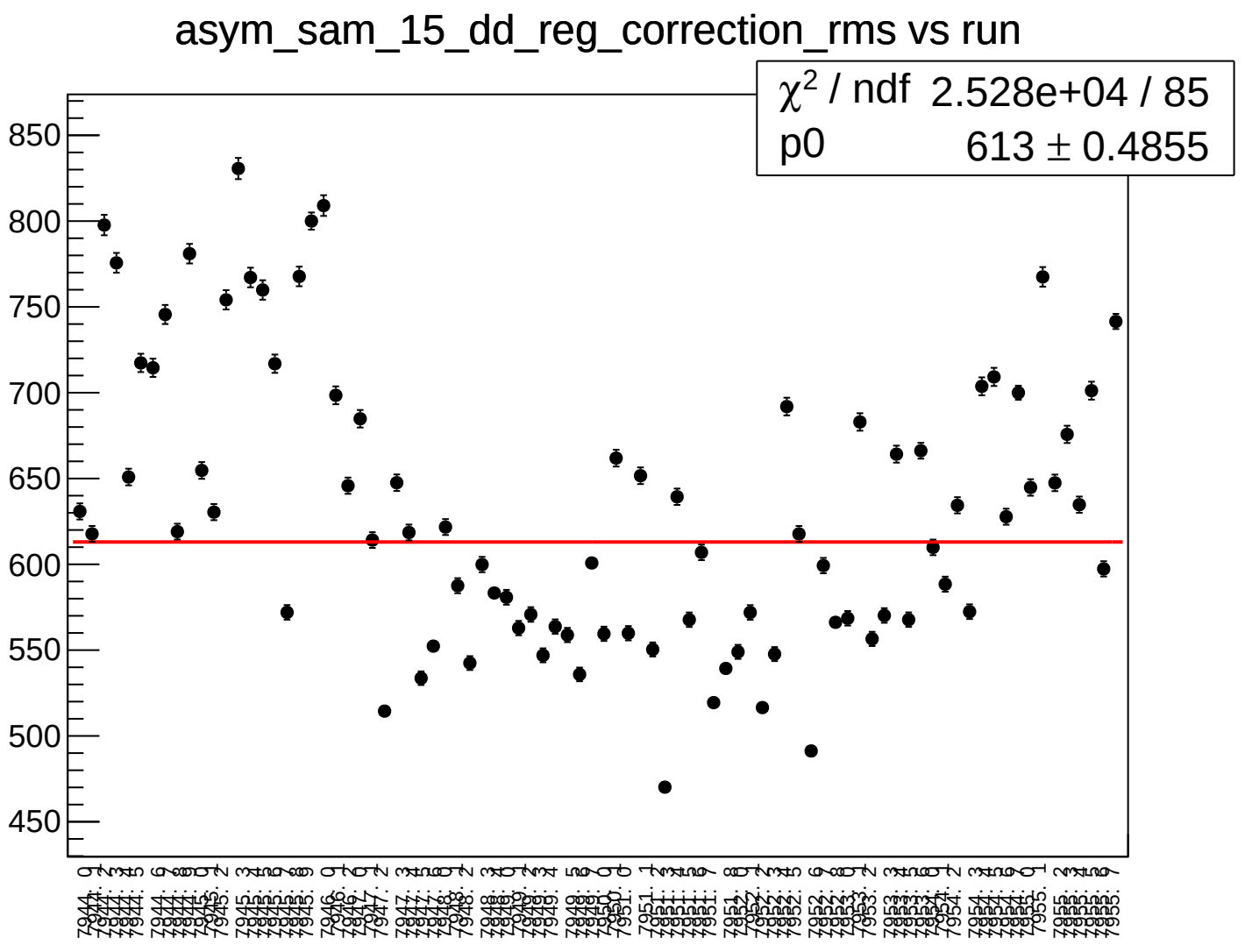

reg_asym_sam_15_dd_mean vs run
χ² / ndf 80.15 / 85
p0 −100.1± 95.56
pull
Entries 86
Mean −921.2
Std Dev 0

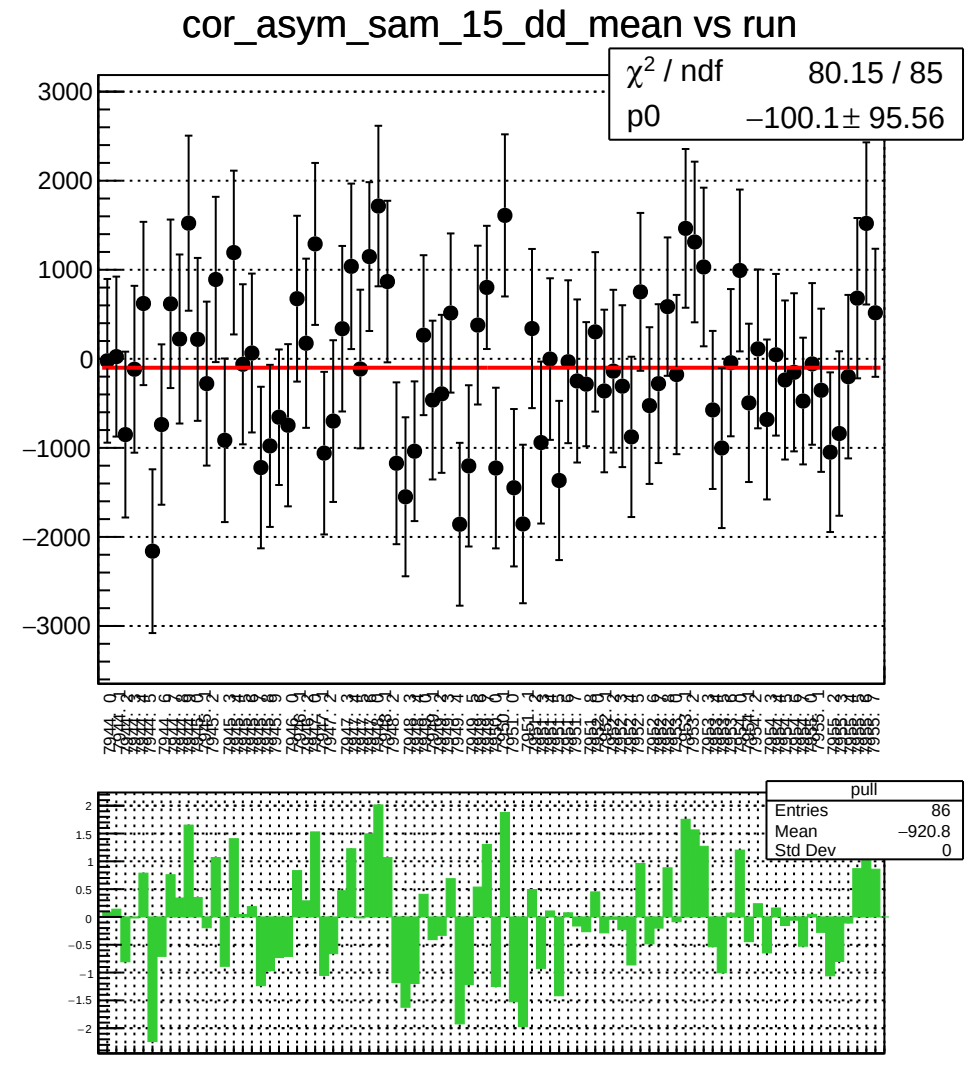

pull1D
Entries 86
Mean −0.0008721
Std Dev 0.9654

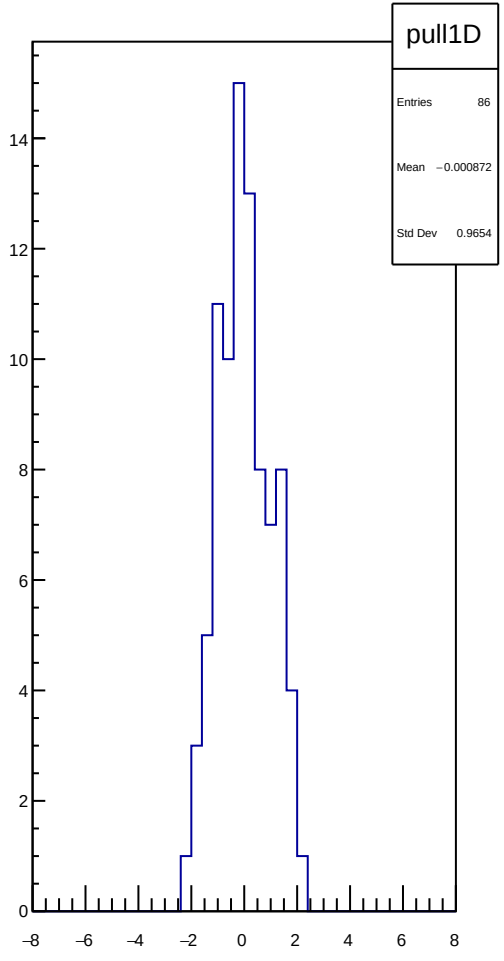

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 620.5 / 85
p0 85.97 ± 0.06757
96
94
92
90
88
86
84
82

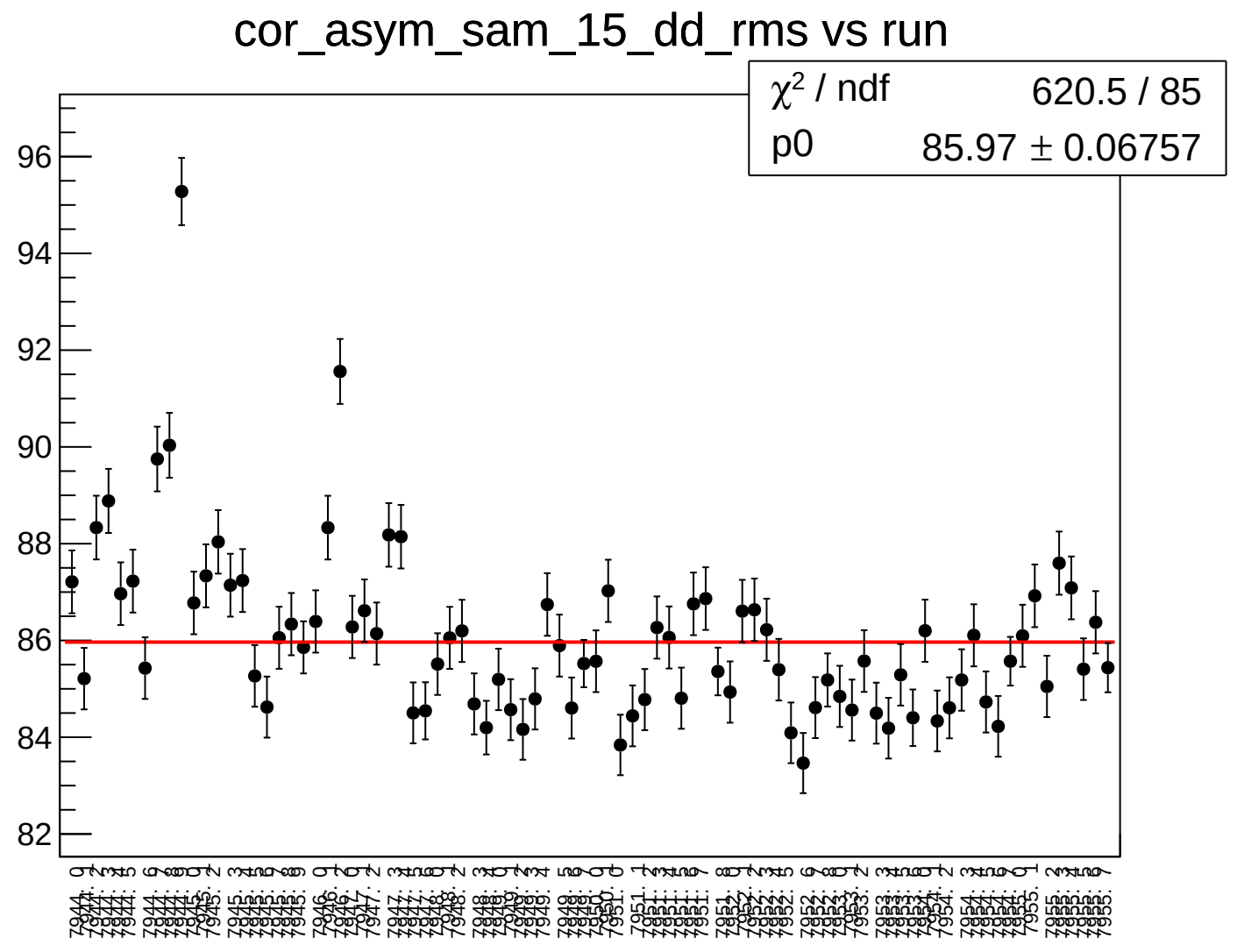

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 80.43 / 85
p0 1328 ± 686.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −72.75
Std Dev 0
2
1
0
−1
−2

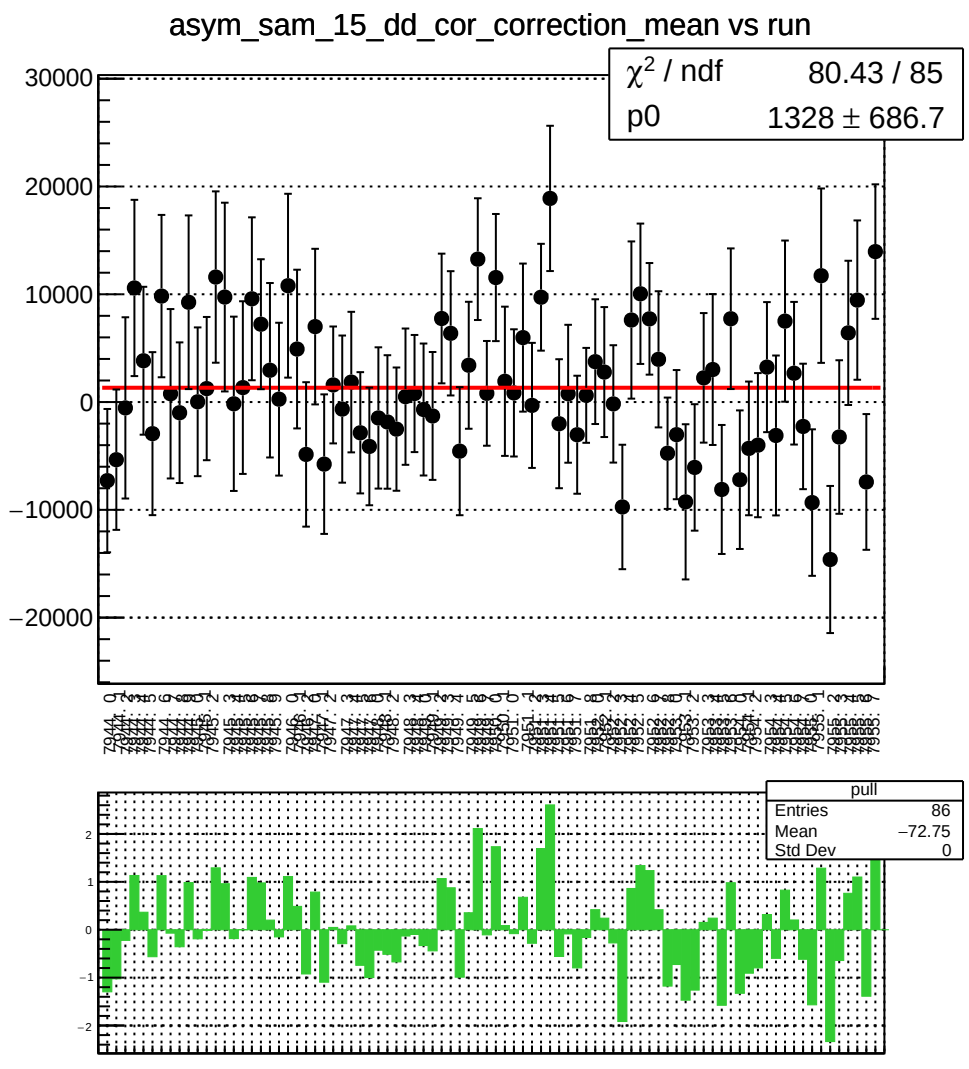

pull1D
Entries 86
Mean 0.022
Std Dev 0.9668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

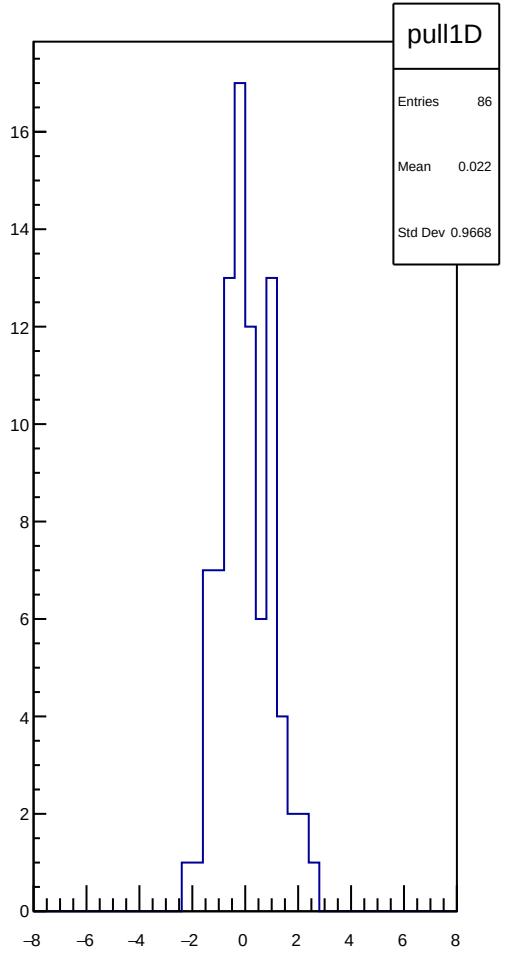

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2.528e+04 / 85
p0 613 ± 0.4855
850
800
750
700
650
600
550
500
450

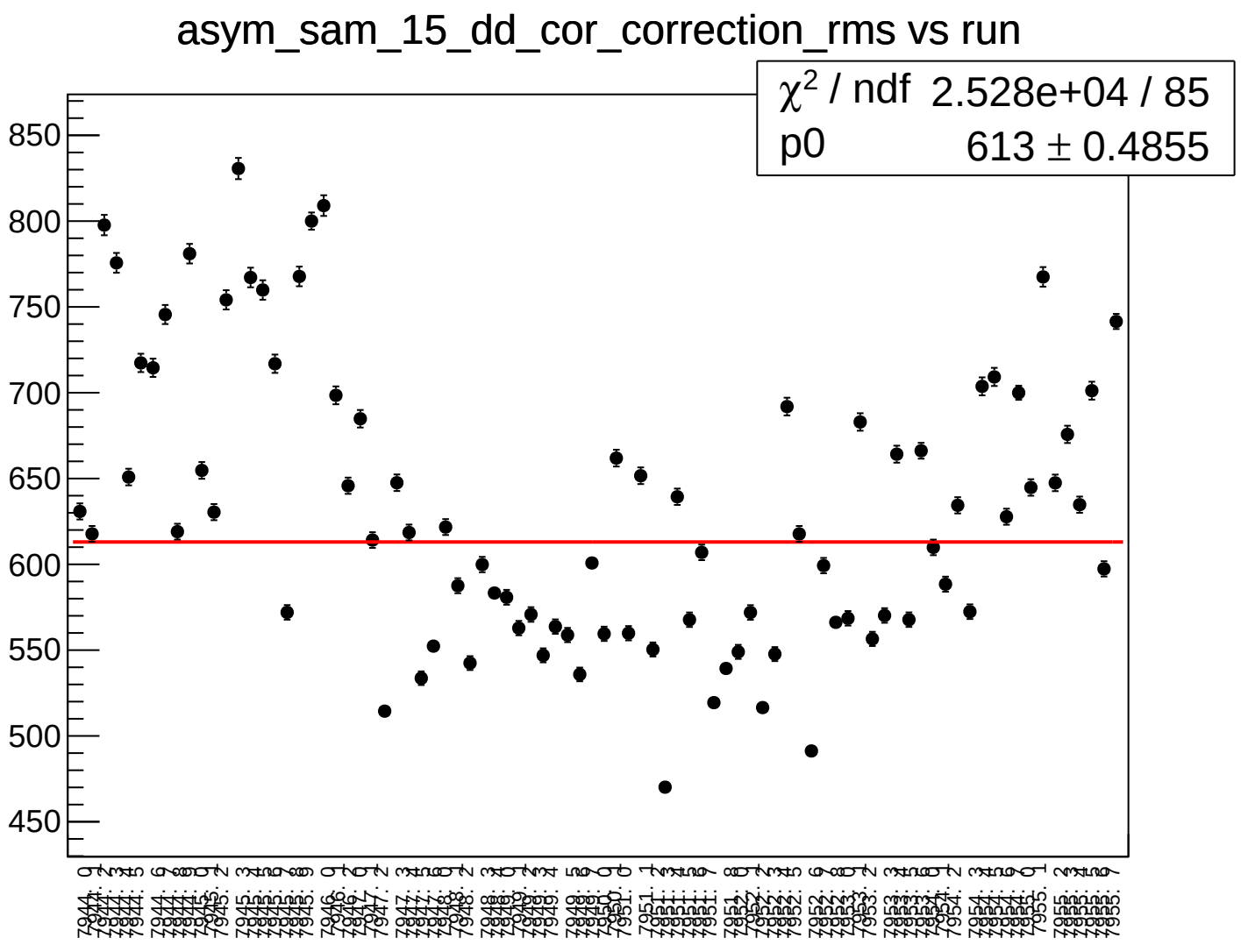

cor_asym_sam_15_dd_mean vs run
χ² / ndf 80.15 / 85
p0 −100.1± 95.56
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −920.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

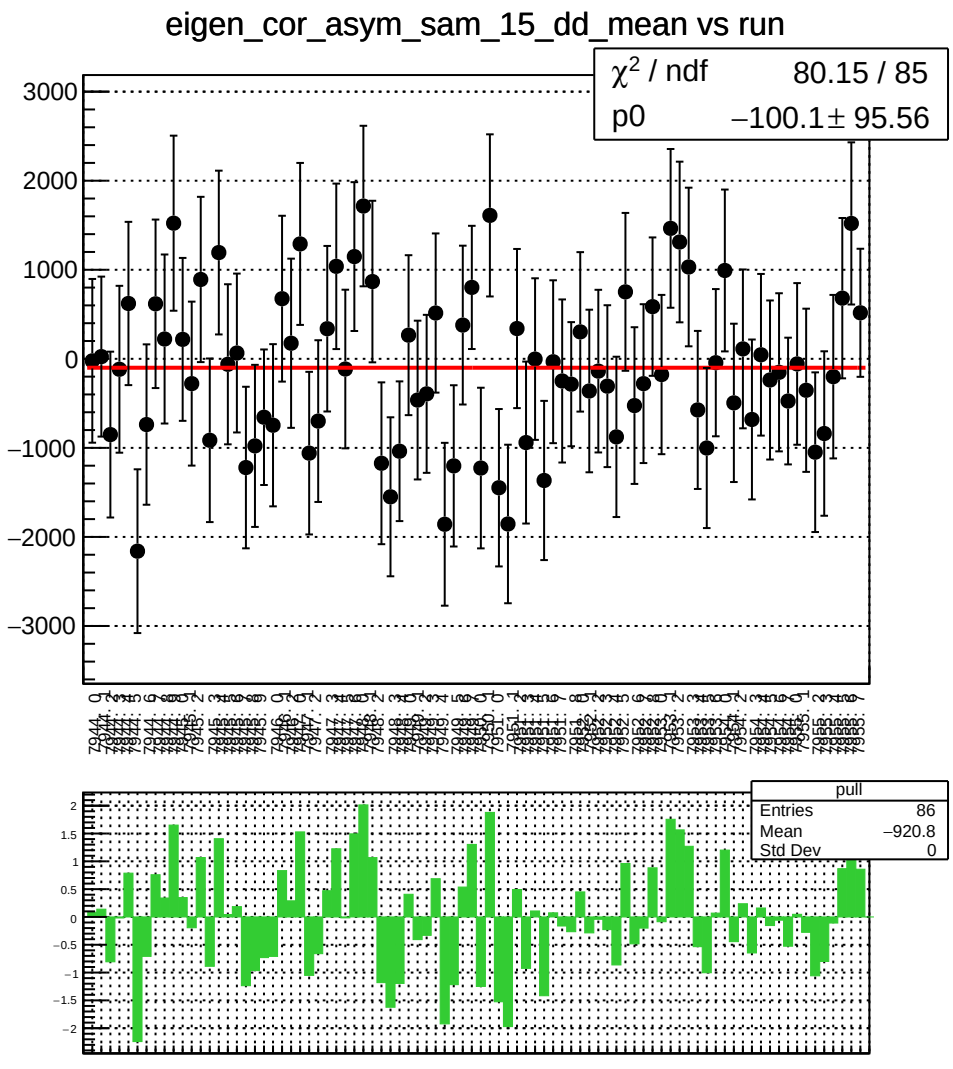

pull1D
Entries 86
Mean −0.000872
Std Dev 0.9654
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

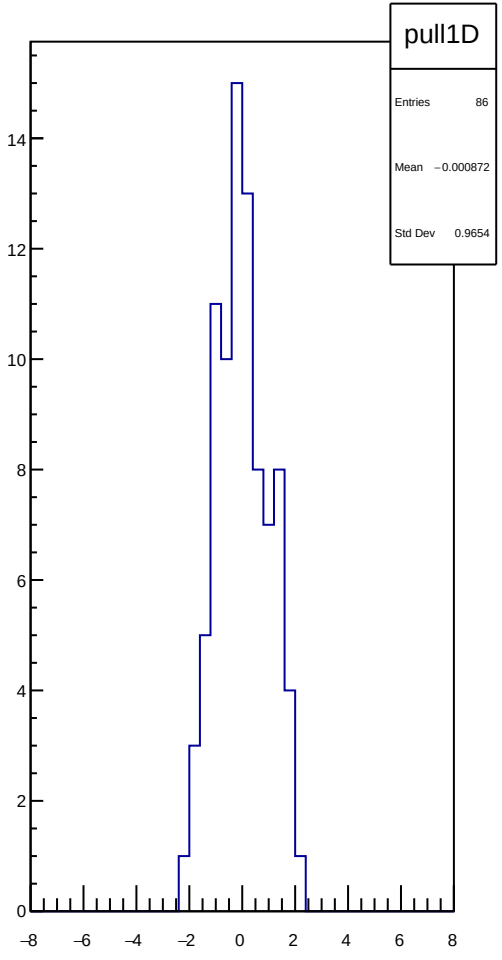

cor_asym_sam_15_dd_rms vs run
χ² / ndf 620.5 / 85
p0 85.97 ± 0.06757
96
94
92
90
88
86
84
82

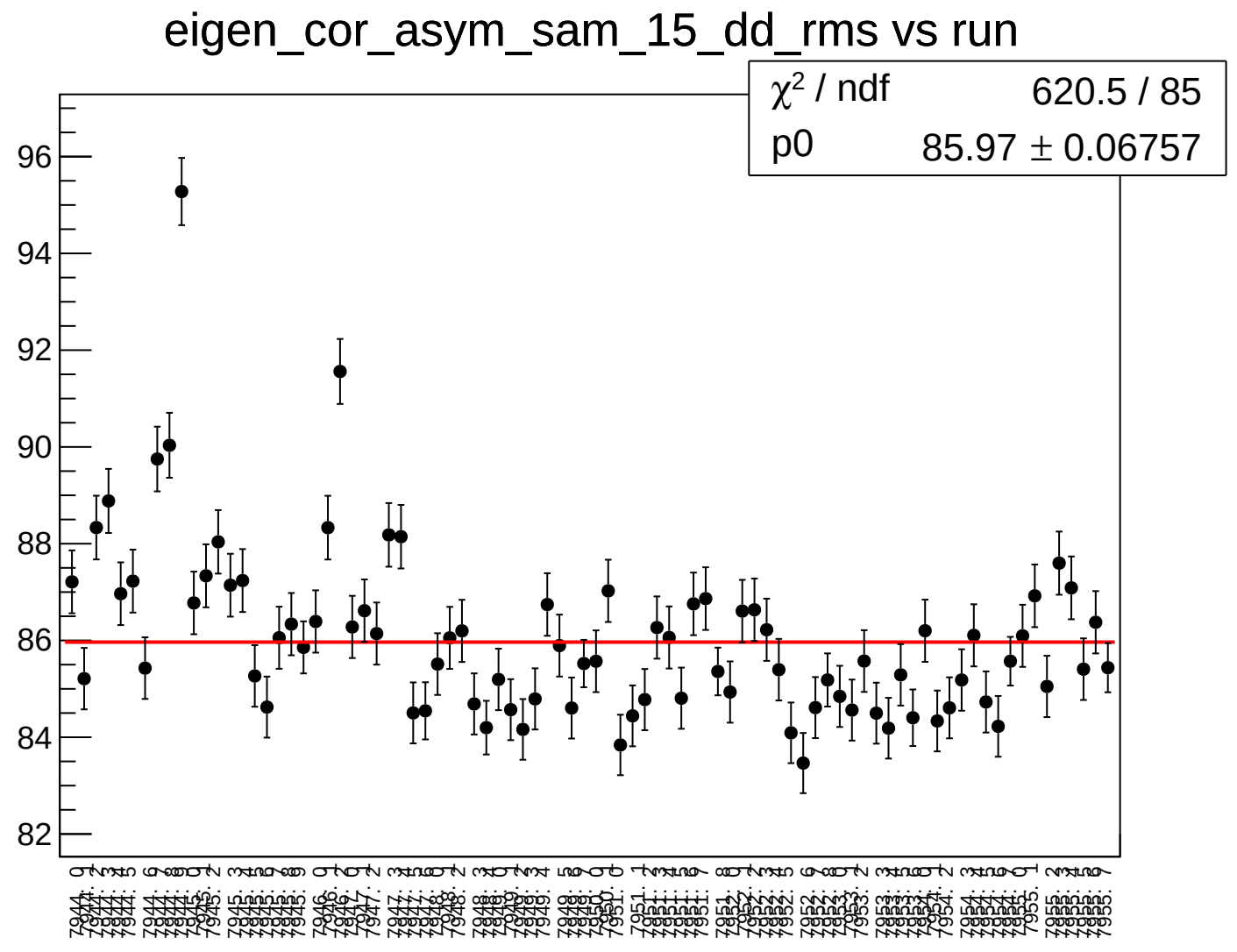

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 80.43 / 85
p0 1328 ± 686.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −72.75
Std Dev 0
2
1
0
−1
−2

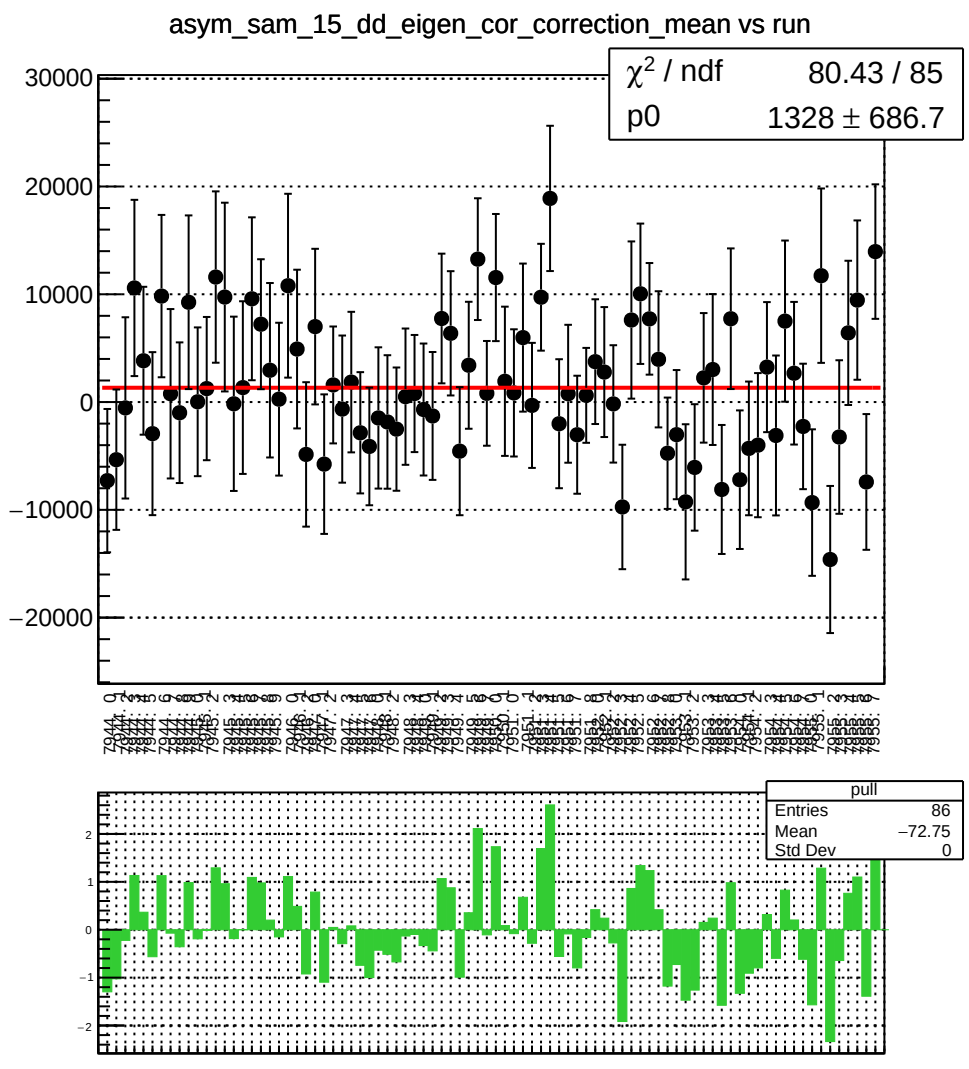

pull1D
Entries 86
Mean 0.022
Std Dev 0.9668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

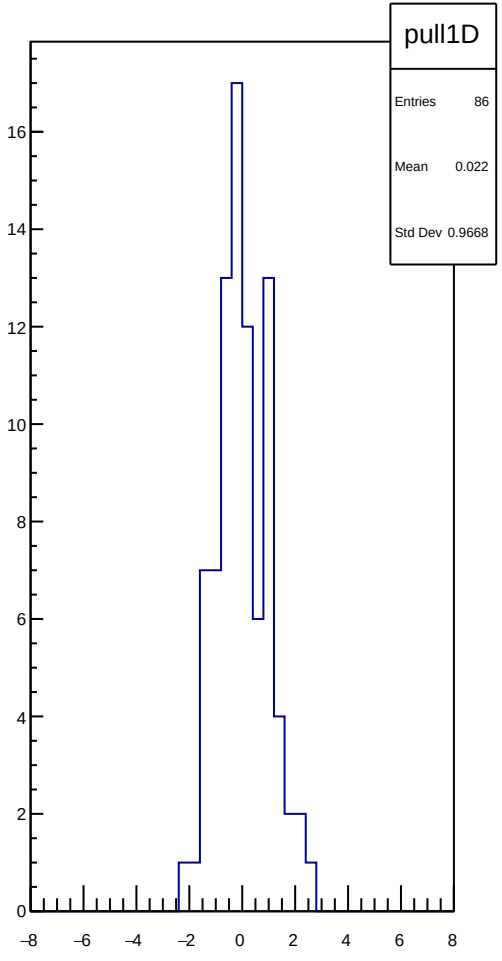

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2.528e+04 / 85
p0 613 ± 0.4855
850
800
750
700
650
600
550
500
450

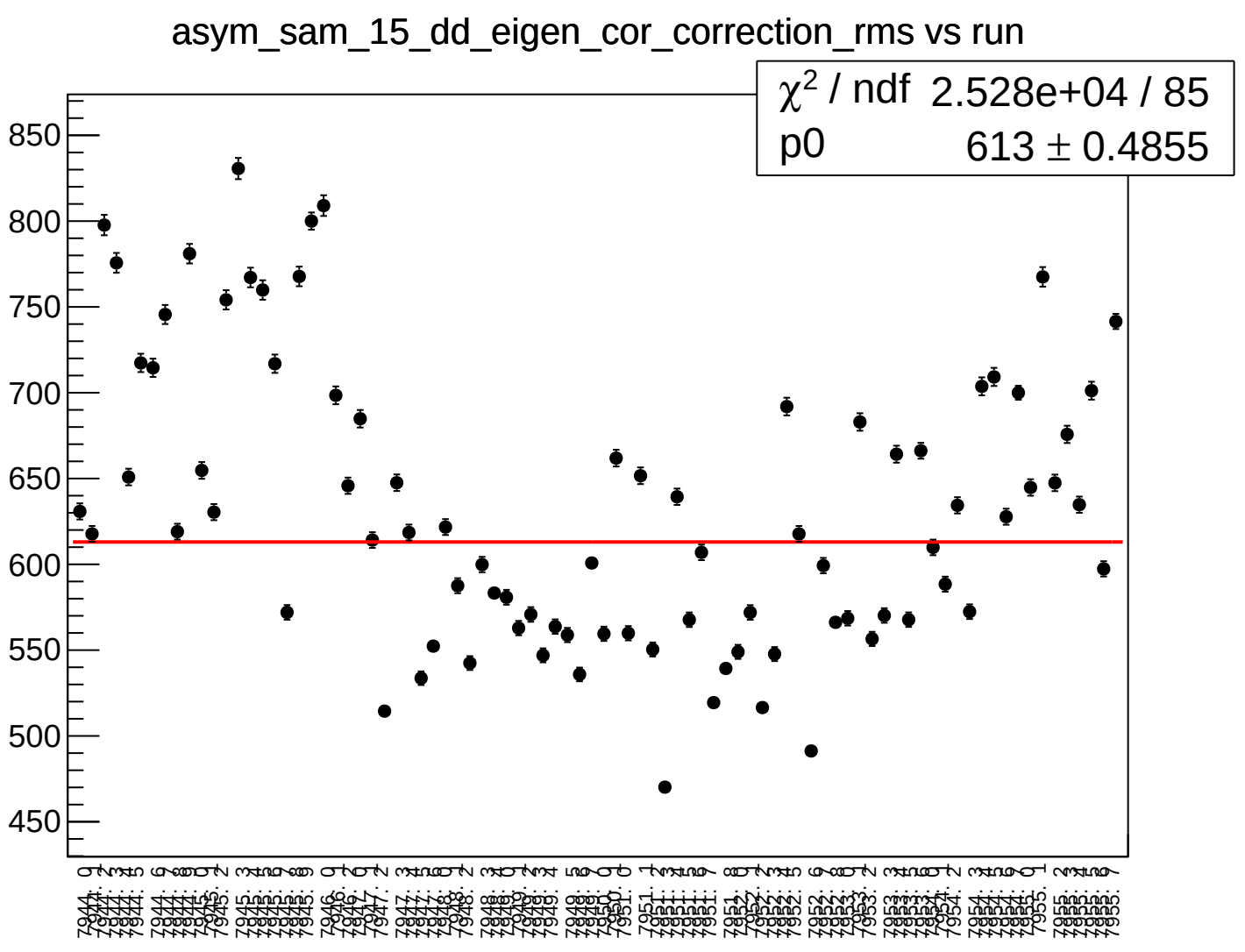

eigen_cor_asym_sam_15_dd_mean vs run
χ^2 / ndf 80.15 / 85
p0 −100.1± 95.56
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −920.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

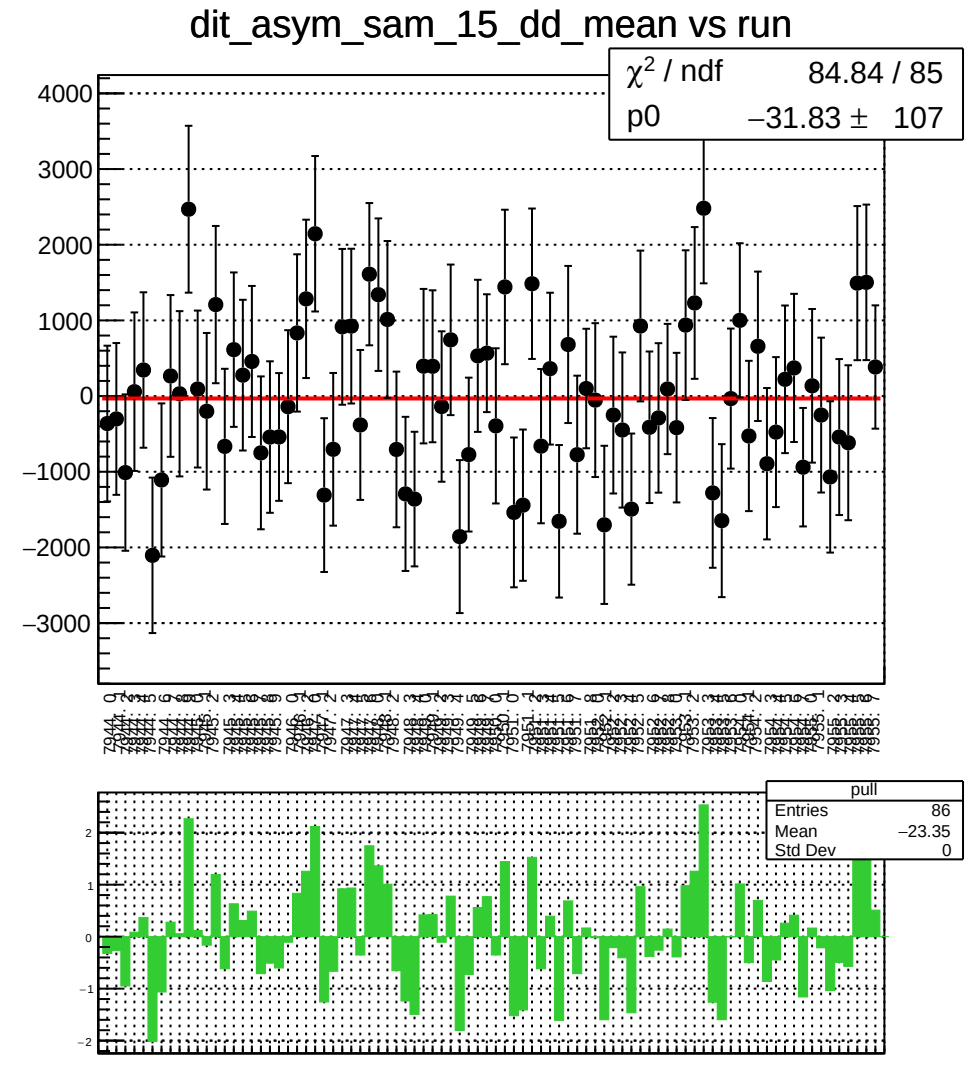

pull1D
Entries 86
Mean −0.000872
Std Dev 0.9654
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

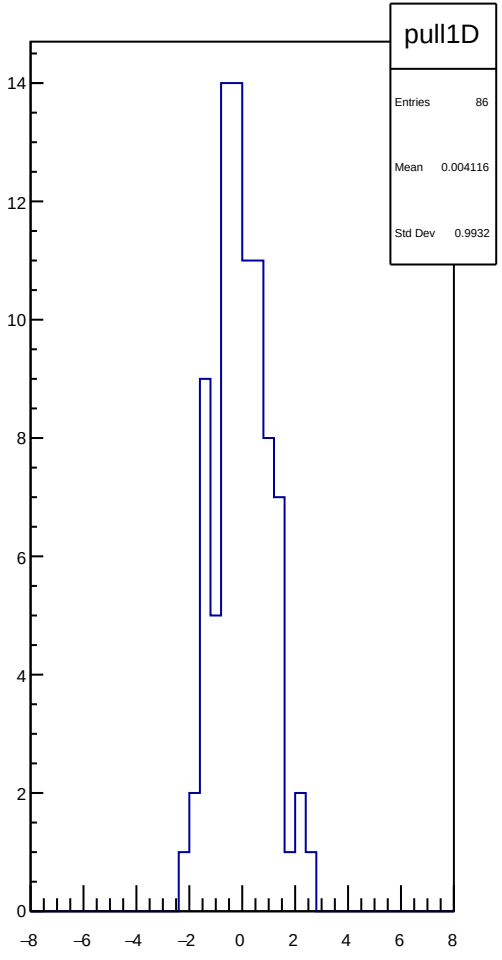

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 620.5 / 85
p0 85.97 ± 0.06757
96
94
92
90
88
86
84
82

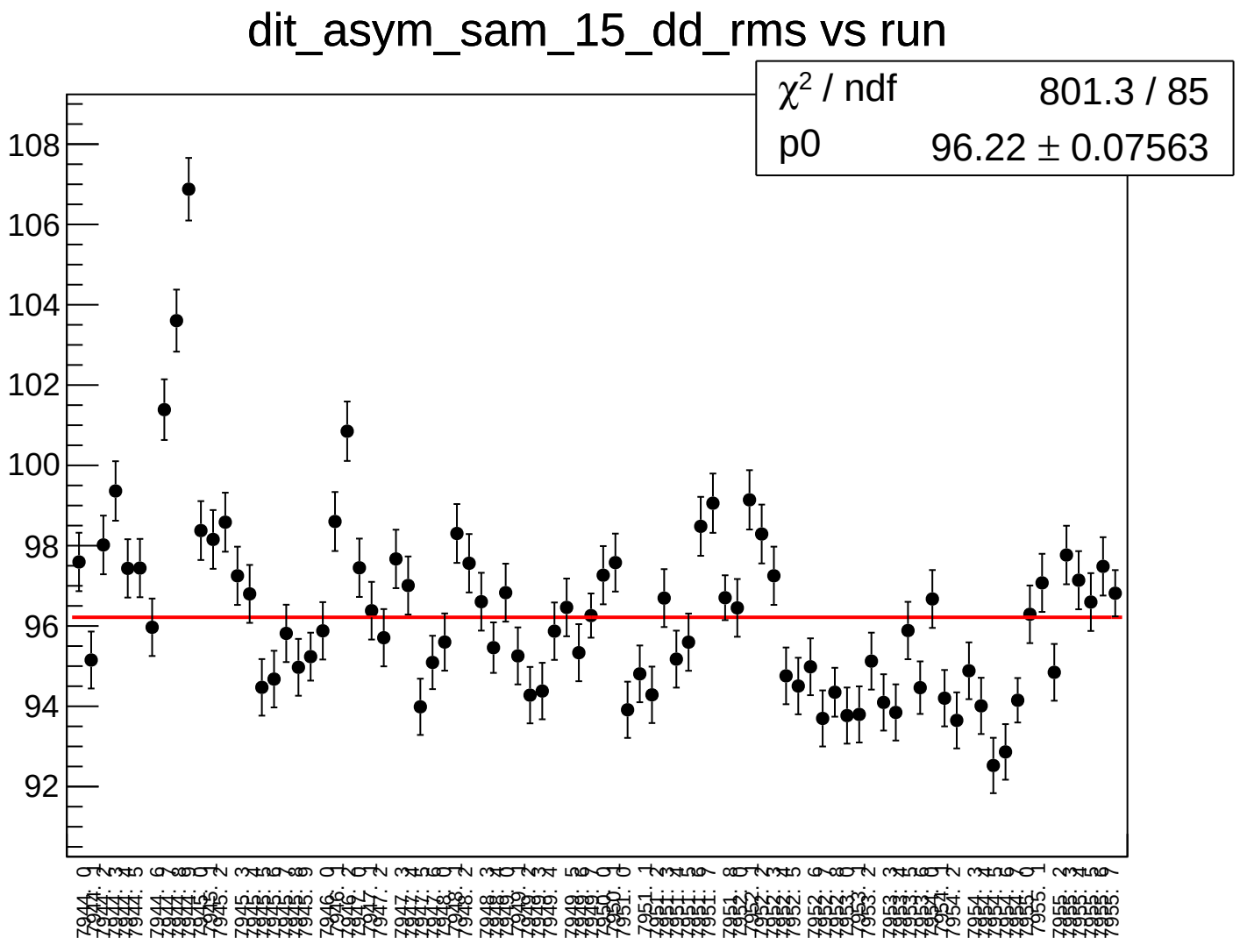

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.43 / 85
p0 1328 ± 686.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −72.75
Std Dev 0

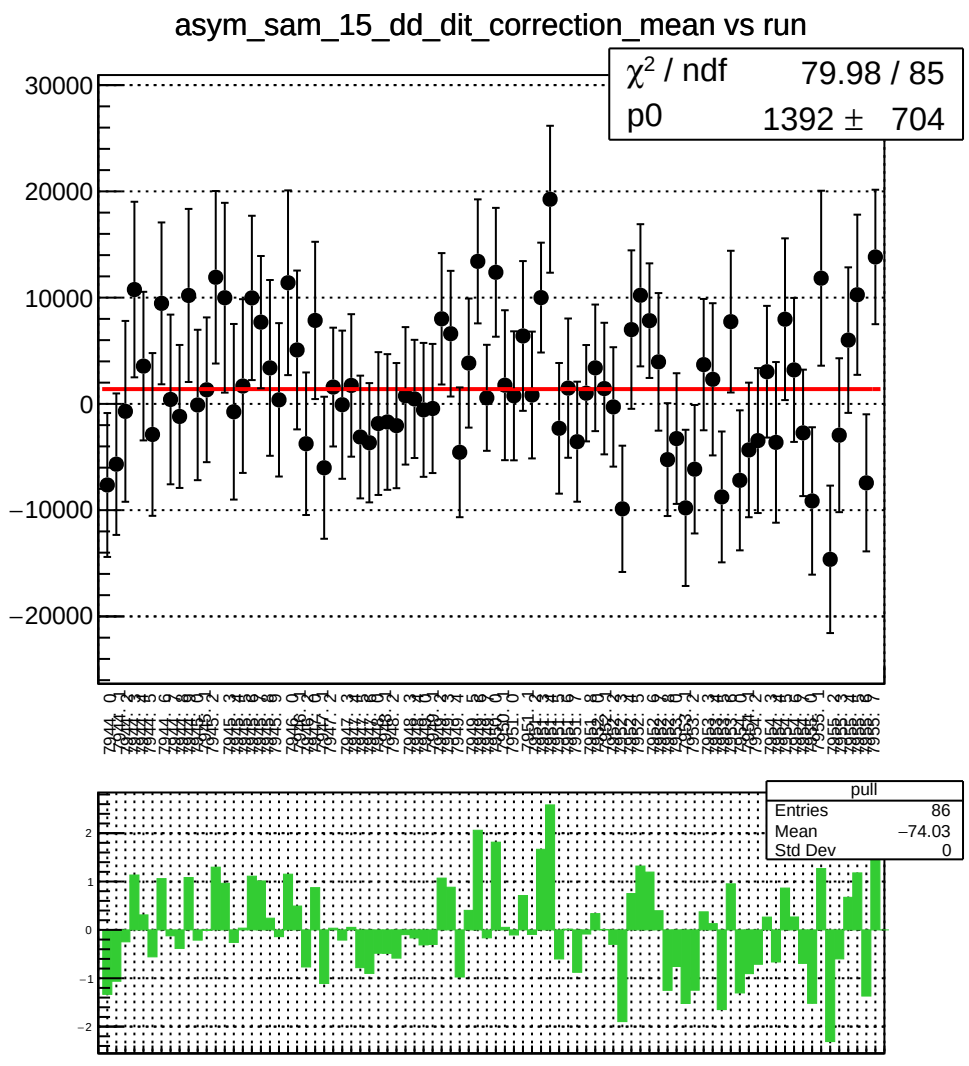

pull1D
Entries 86
Mean 0.022
Std Dev 0.9668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

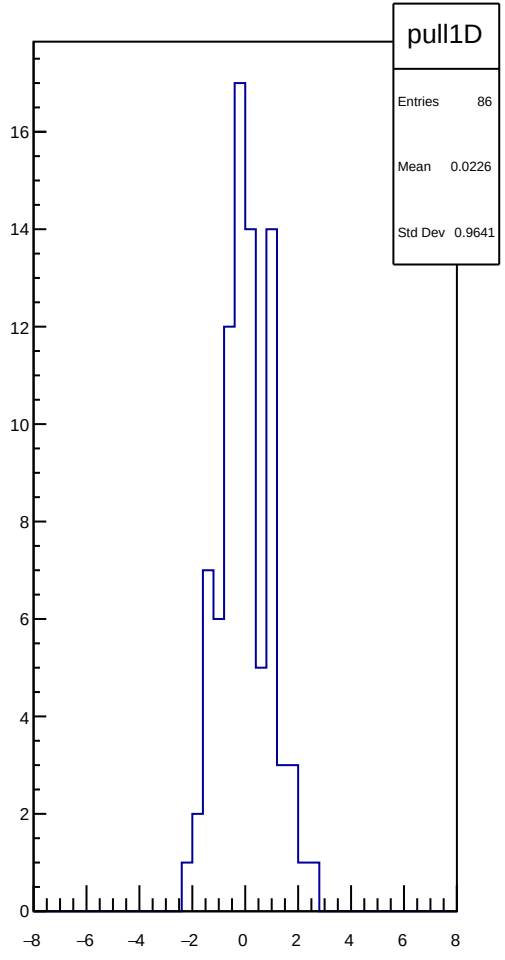

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.528e+04 / 85
p0 613 ± 0.4855
850
800
750
700
650
600
550
500
450

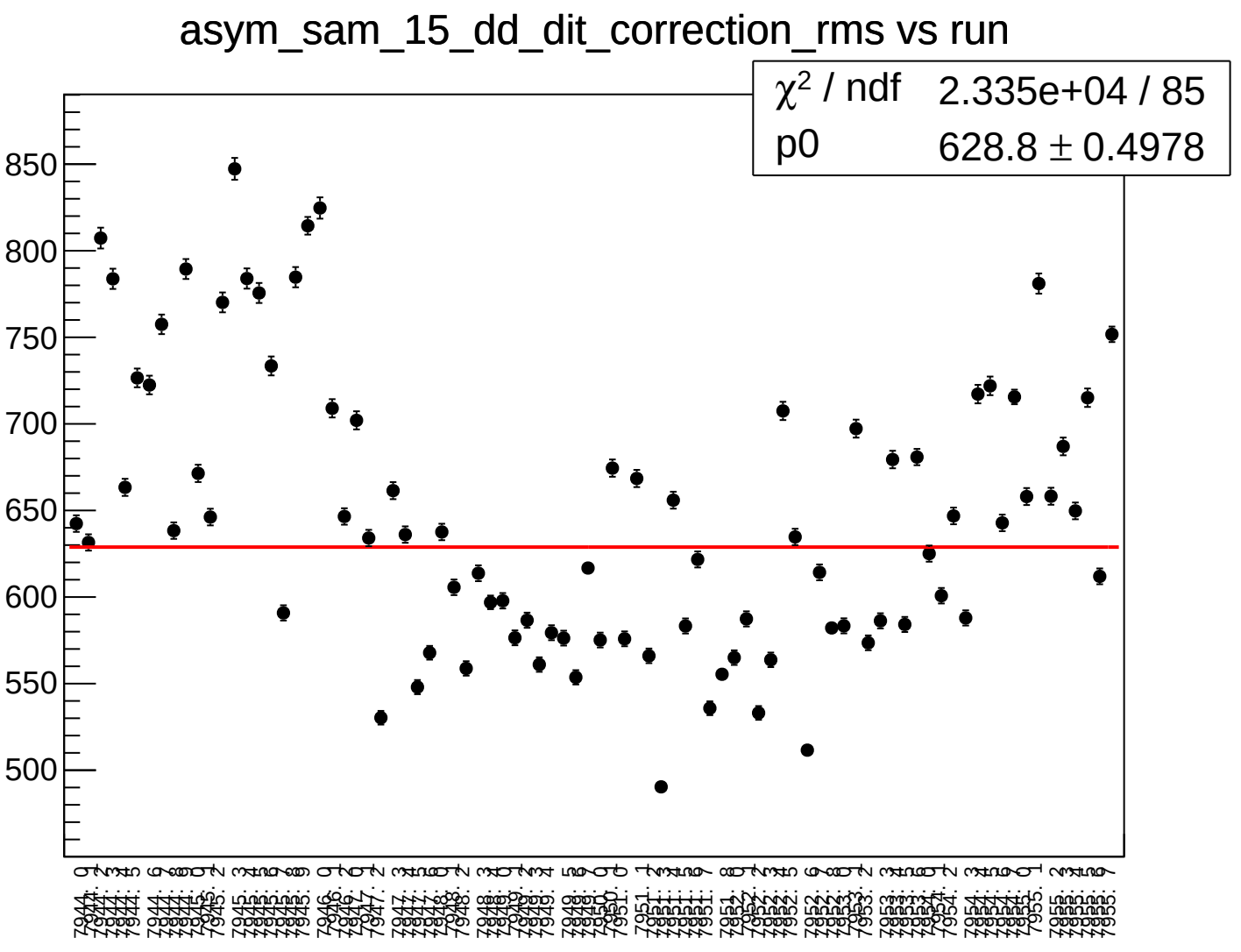

dit_asym_sam_15_dd_mean vs run
χ² / ndf 84.84 / 85
p0 −31.83 ± 107
pull
Entries 86
Mean −23.35
Std Dev 0

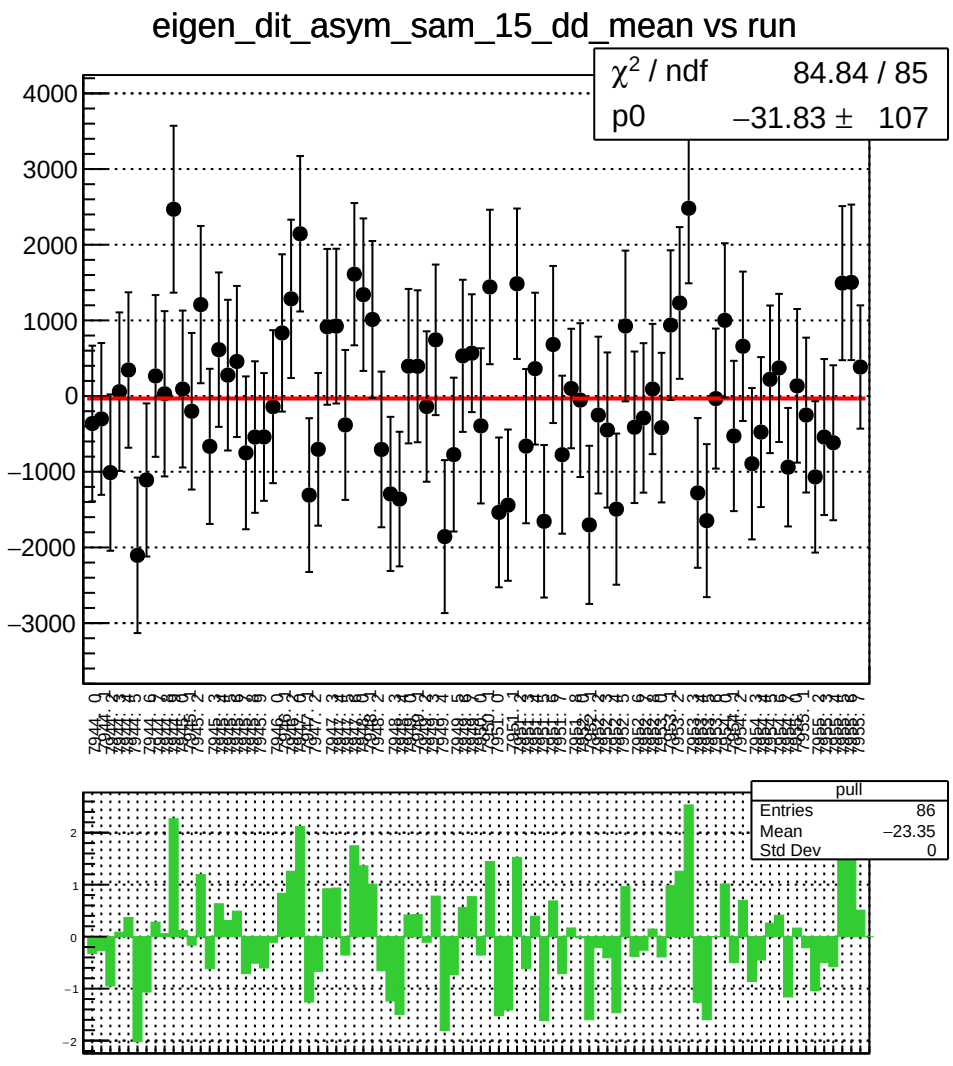

pull1D
Entries 86
Mean 0.004116
Std Dev 0.9932

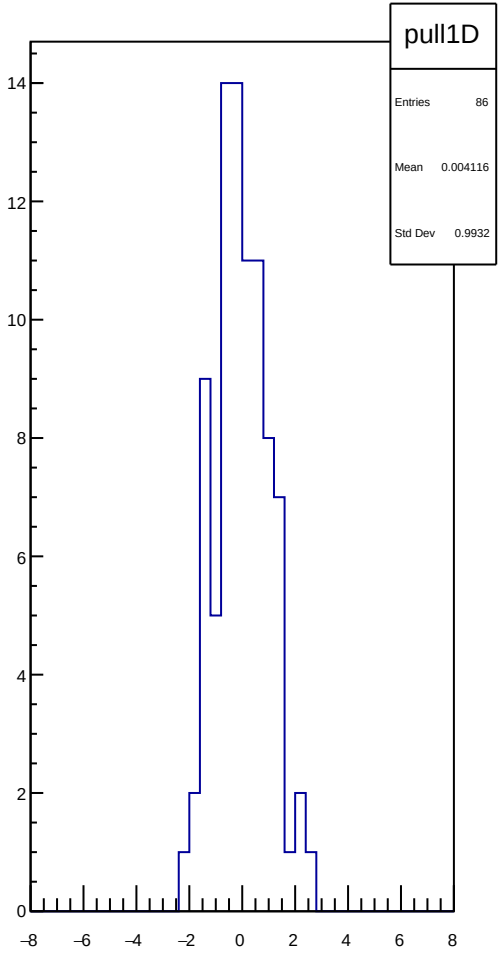

dit_asym_sam_15_dd_rms vs run
χ² / ndf 801.3 / 85
p0 96.22 ± 0.07563
108
106
104
102
100
98
96
94
92

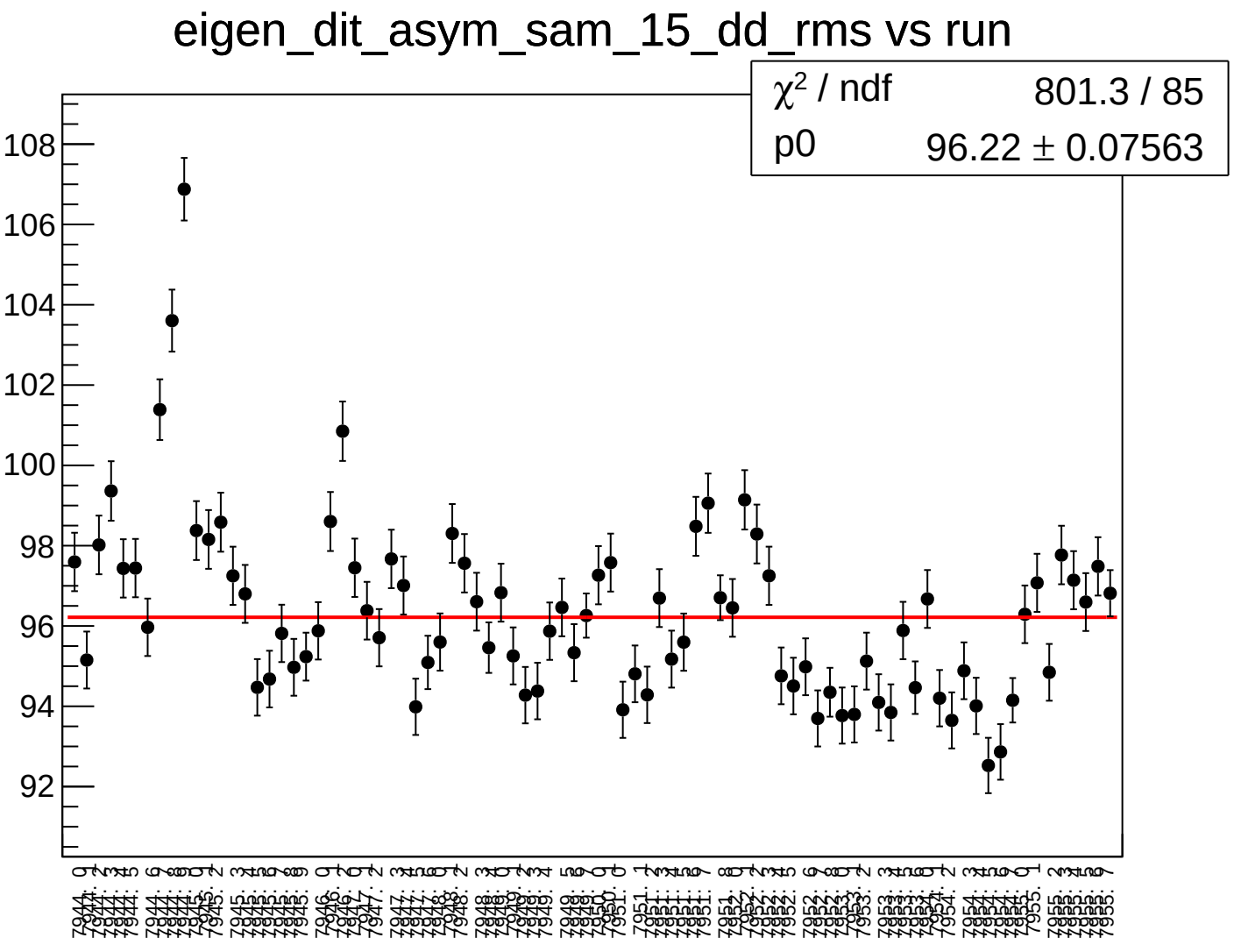

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 79.98 / 85
p0 1392 ± 704
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −74.03
Std Dev 0
2
1
0
−1
−2

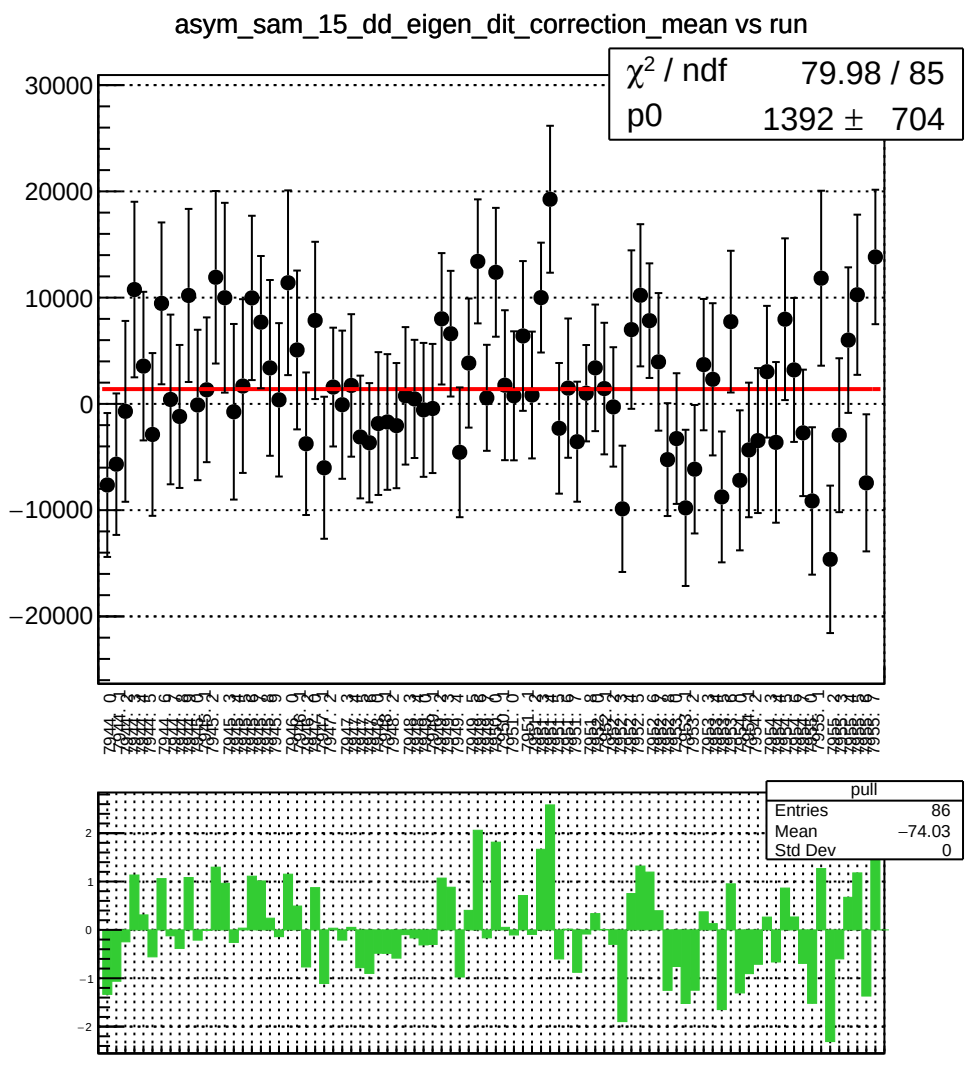

pull1D
Entries 86
Mean 0.0226
Std Dev 0.9641
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

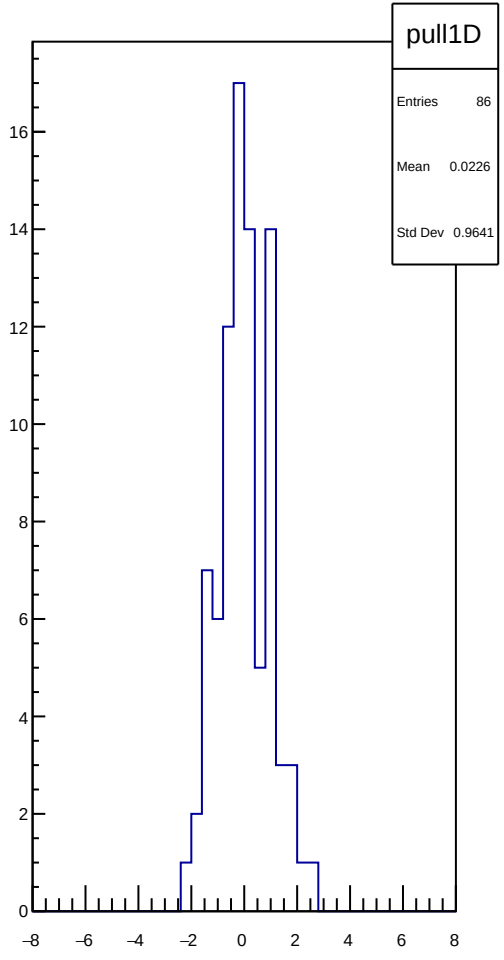

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2.335e+04 / 85
p0 628.8 ± 0.4978
850
800
750
700
650
600
550
500

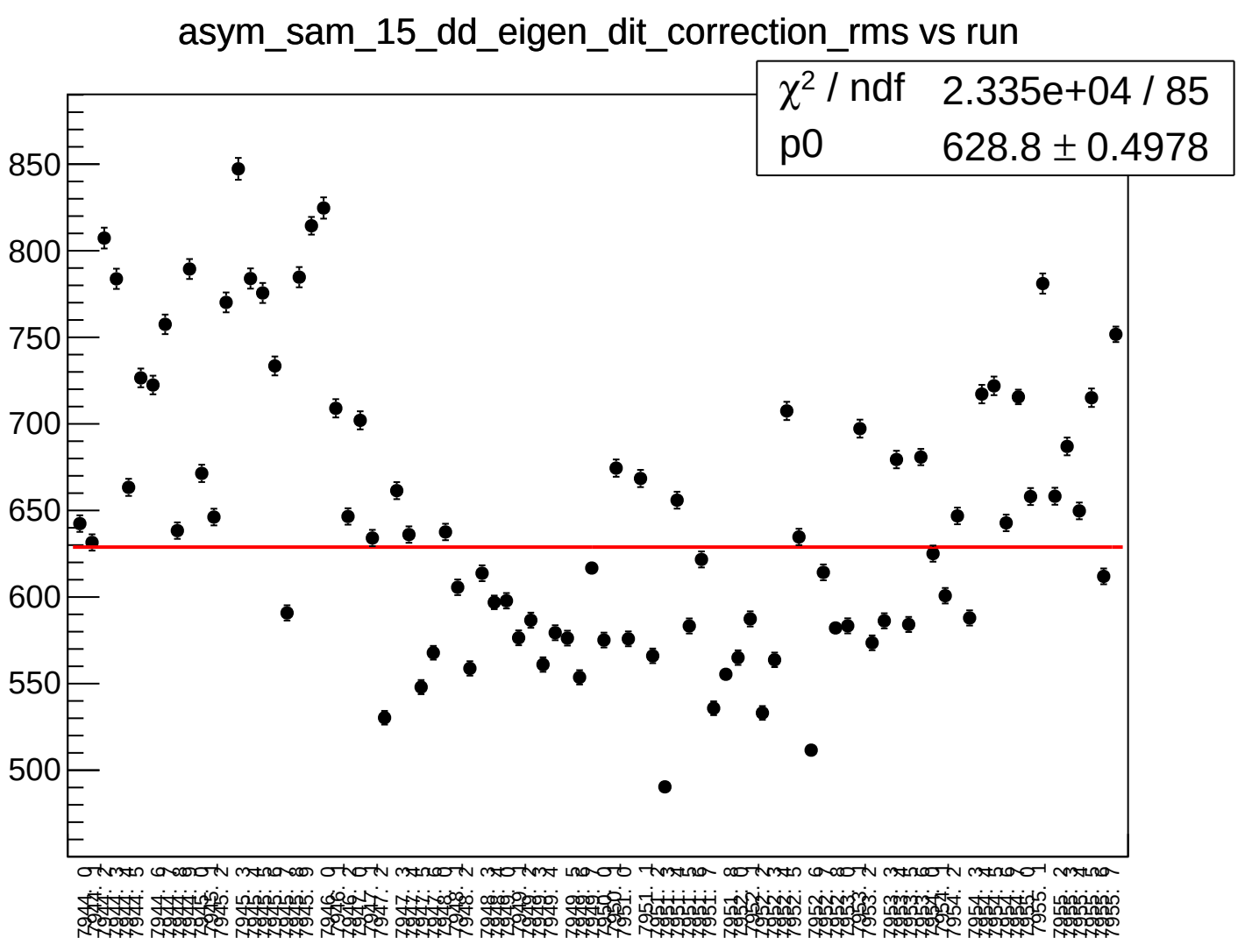

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 84.84 / 85
p0 −31.83 ± 107
pull
Entries 86
Mean −23.35
Std Dev 0

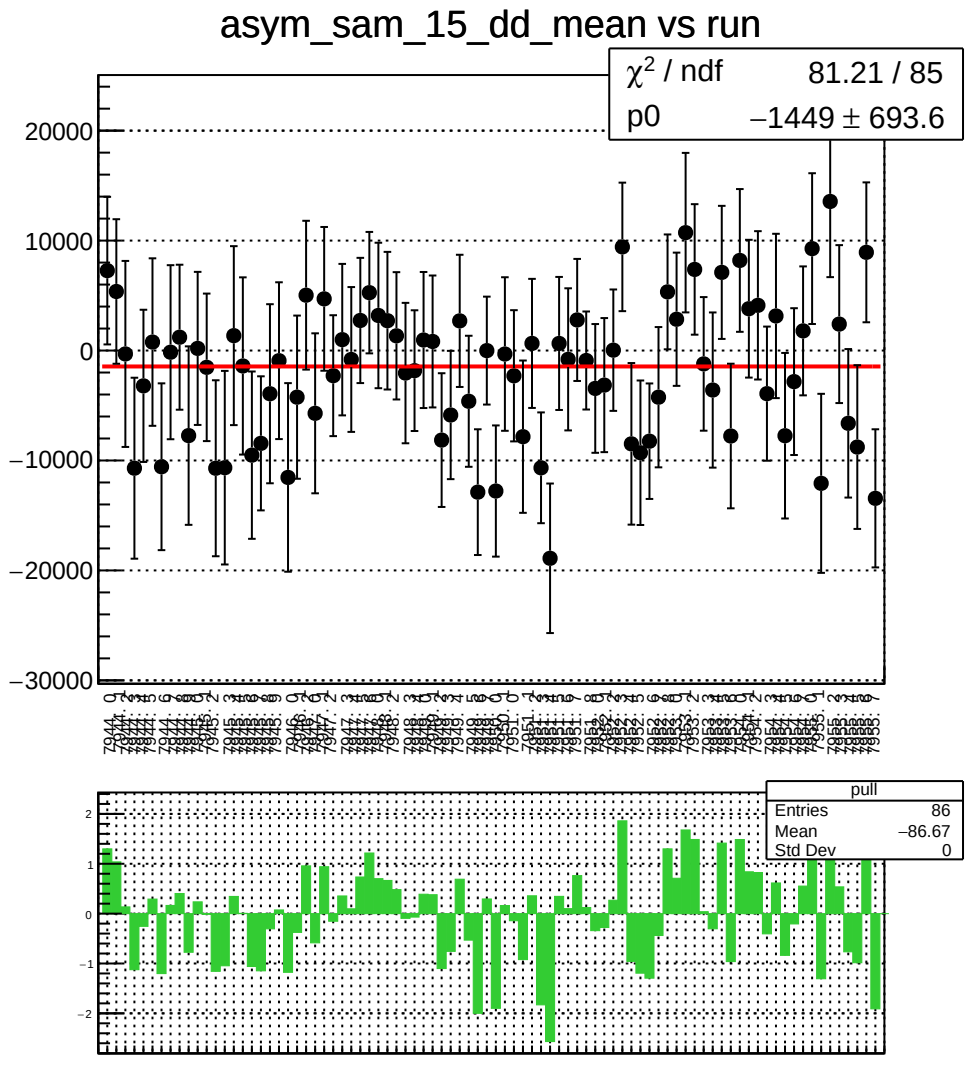

pull1D
Entries 86
Mean 0.004116
Std Dev 0.9932

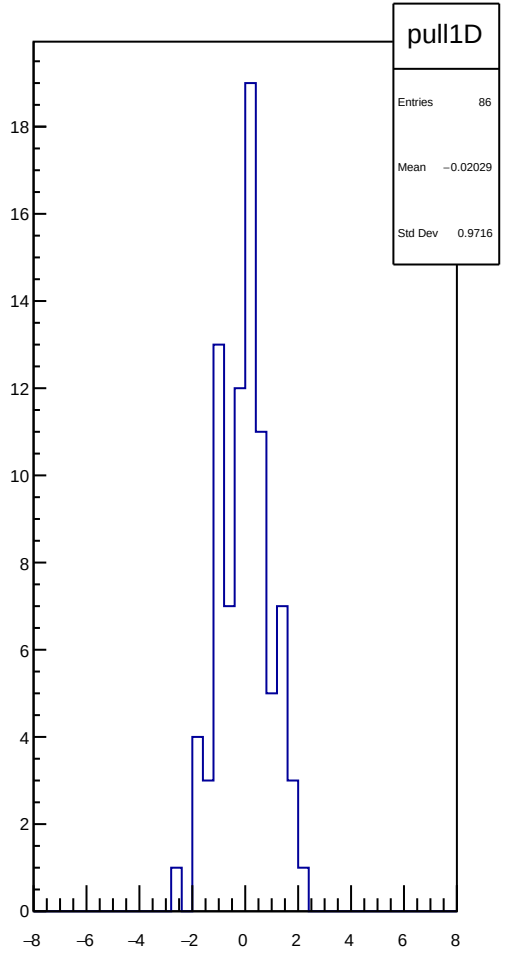

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 801.3 / 85
p0 96.22 ± 0.07563
108
106
104
102
100
98
96
94
92

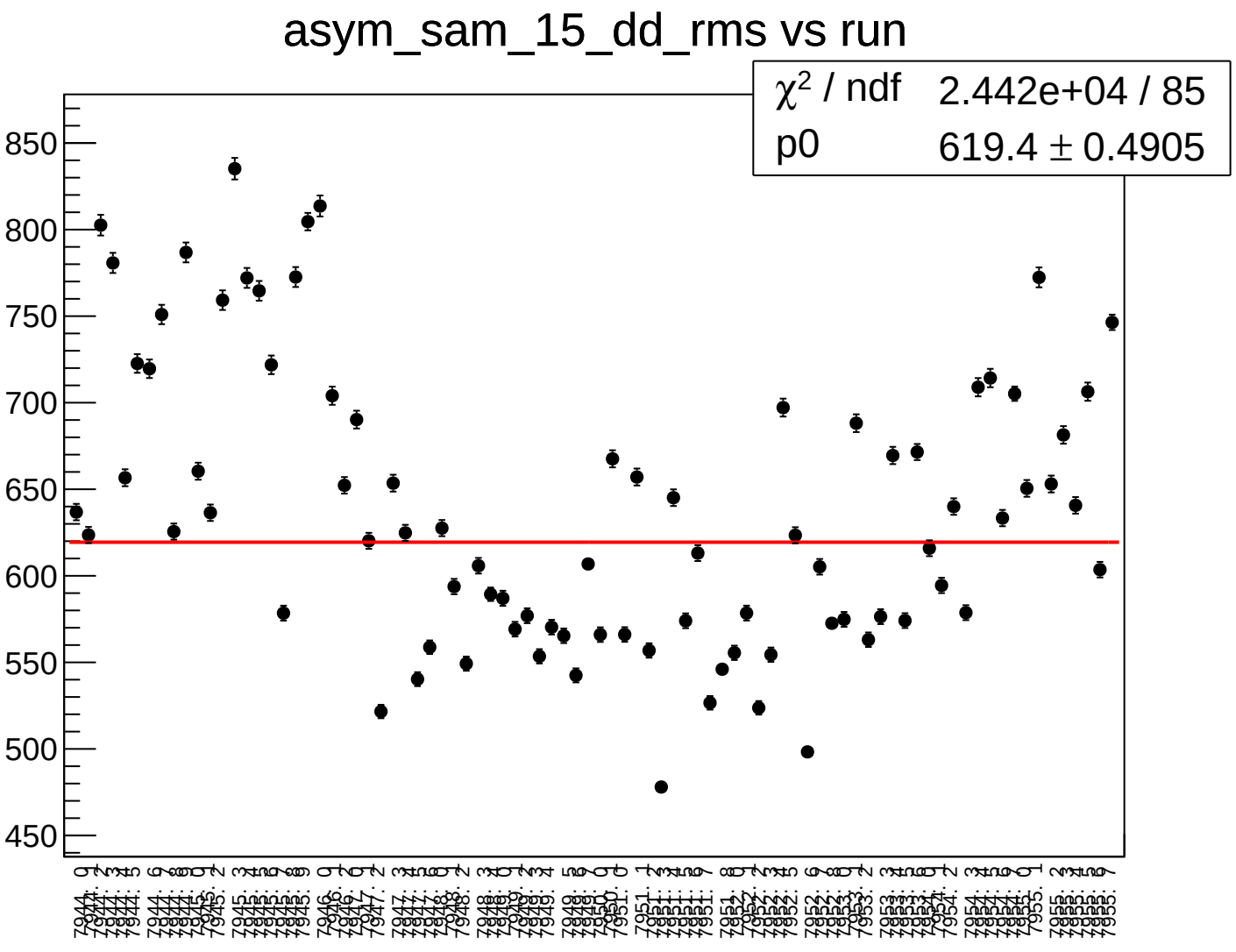

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.98 / 85
p0 1392 ± 704
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −74.03
Std Dev 0
2
1
0
−1
−2

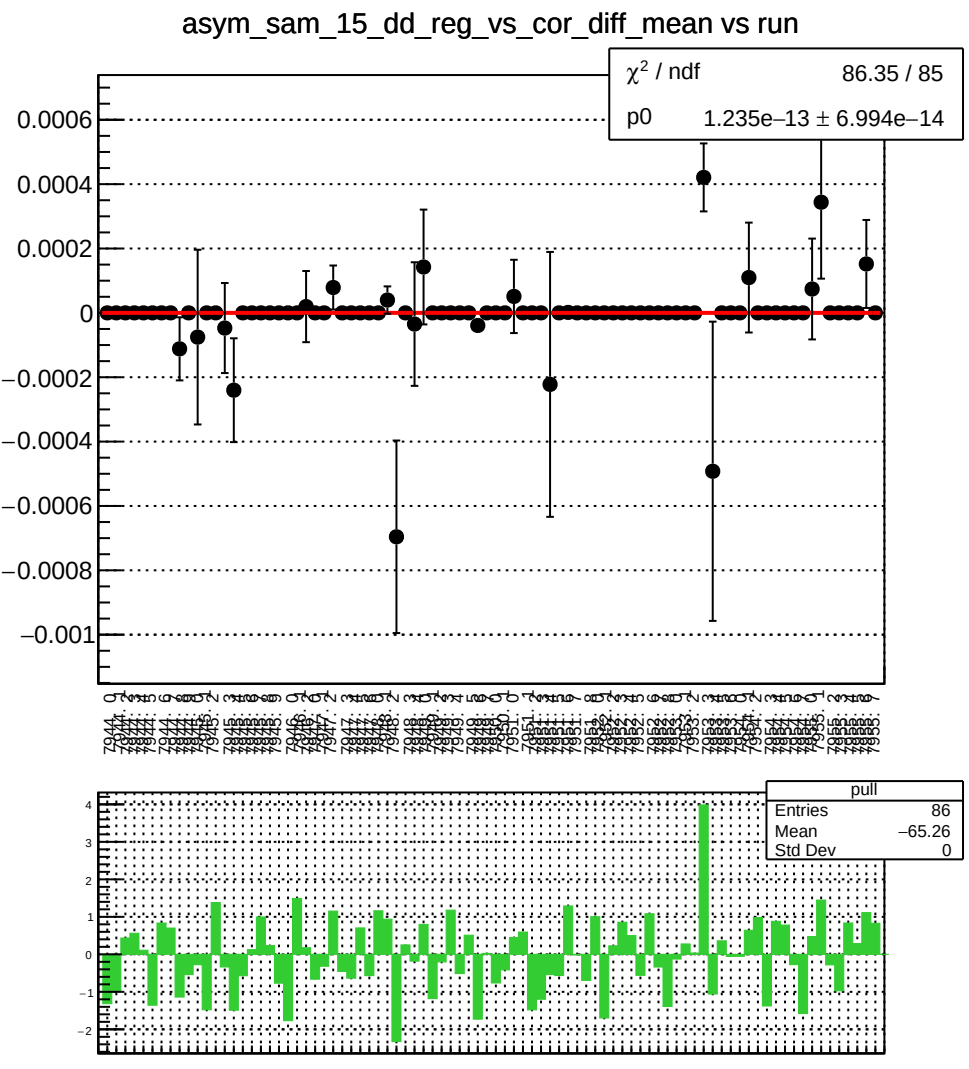

pull1D
Entries 86
Mean 0.0226
Std Dev 0.9641
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

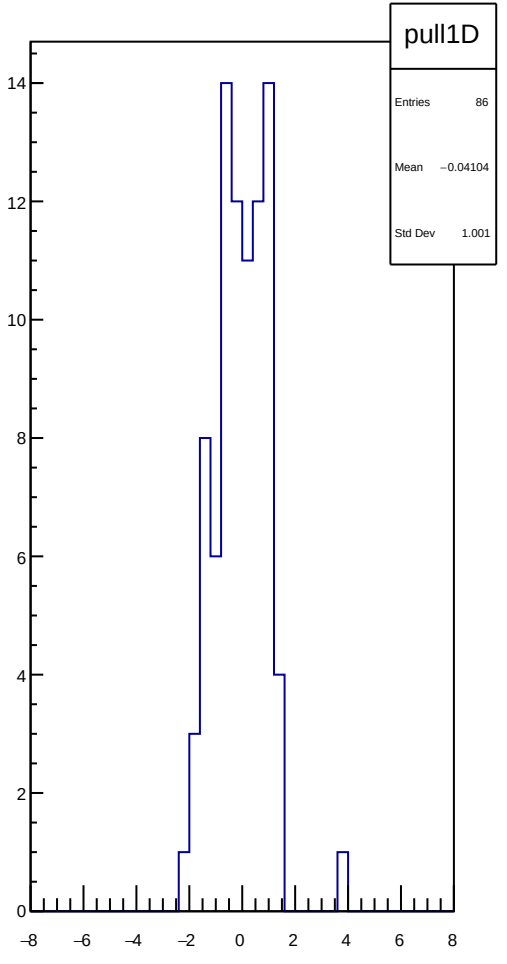

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.335e+04 / 85
p0 628.8 ± 0.4978
850
800
750
700
650
600
550
500

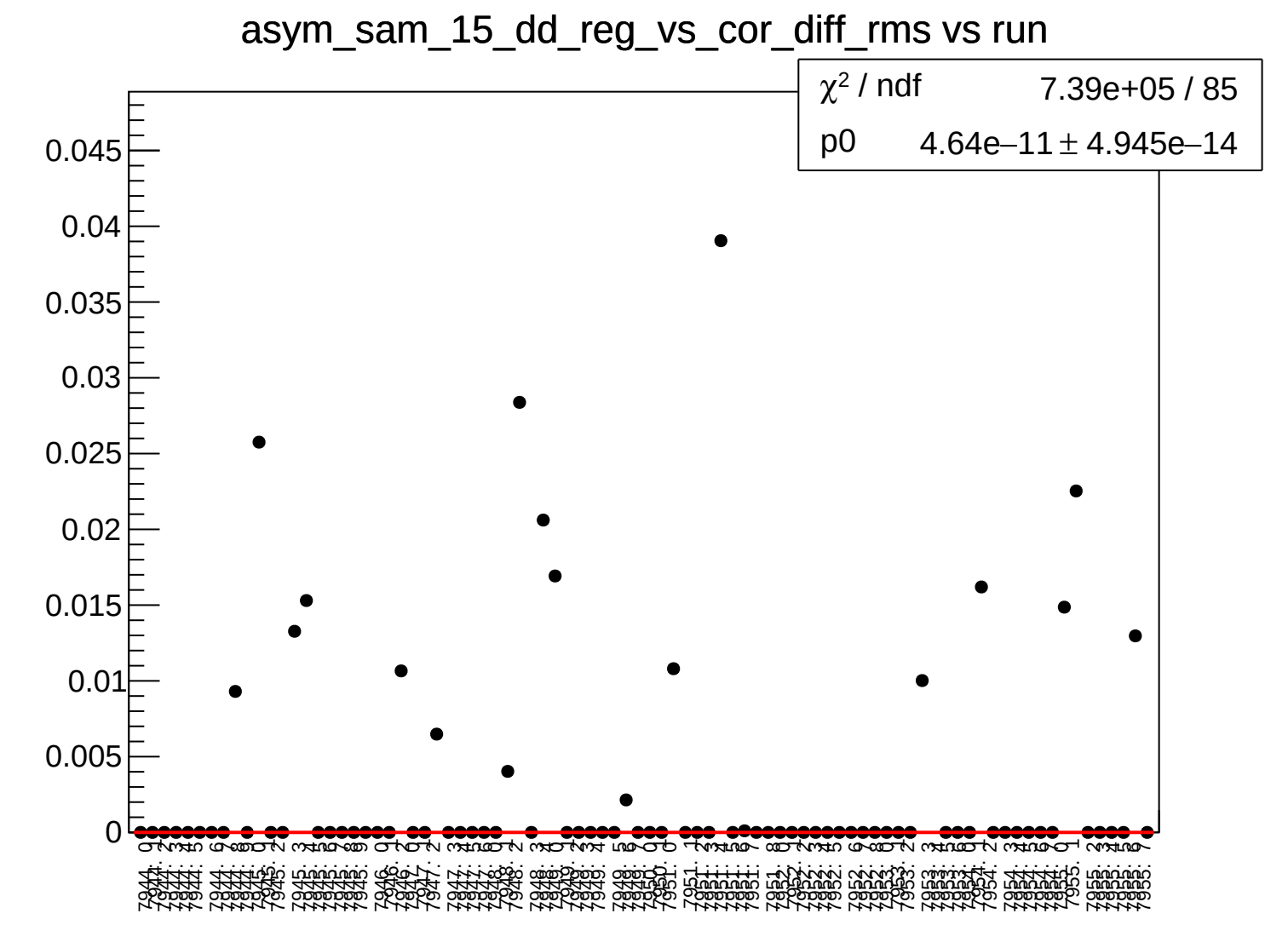

asym_sam_15_dd_mean vs run
χ² / ndf 81.21 / 85
p0 −1449 ± 693.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −86.67
Std Dev 0
2
1
0
−1
−2

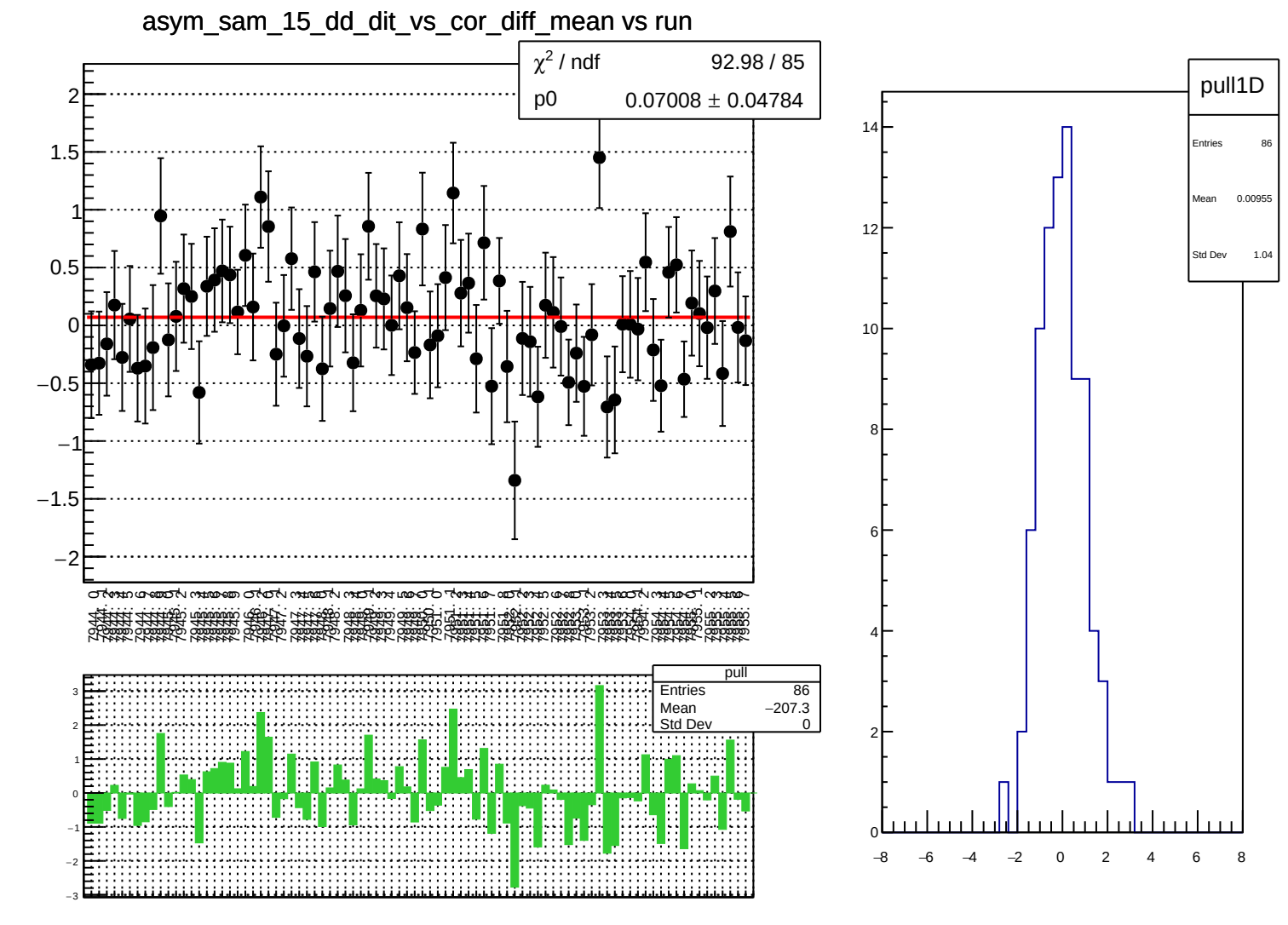

pull1D
Entries 86
Mean −0.02029
Std Dev 0.9716
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

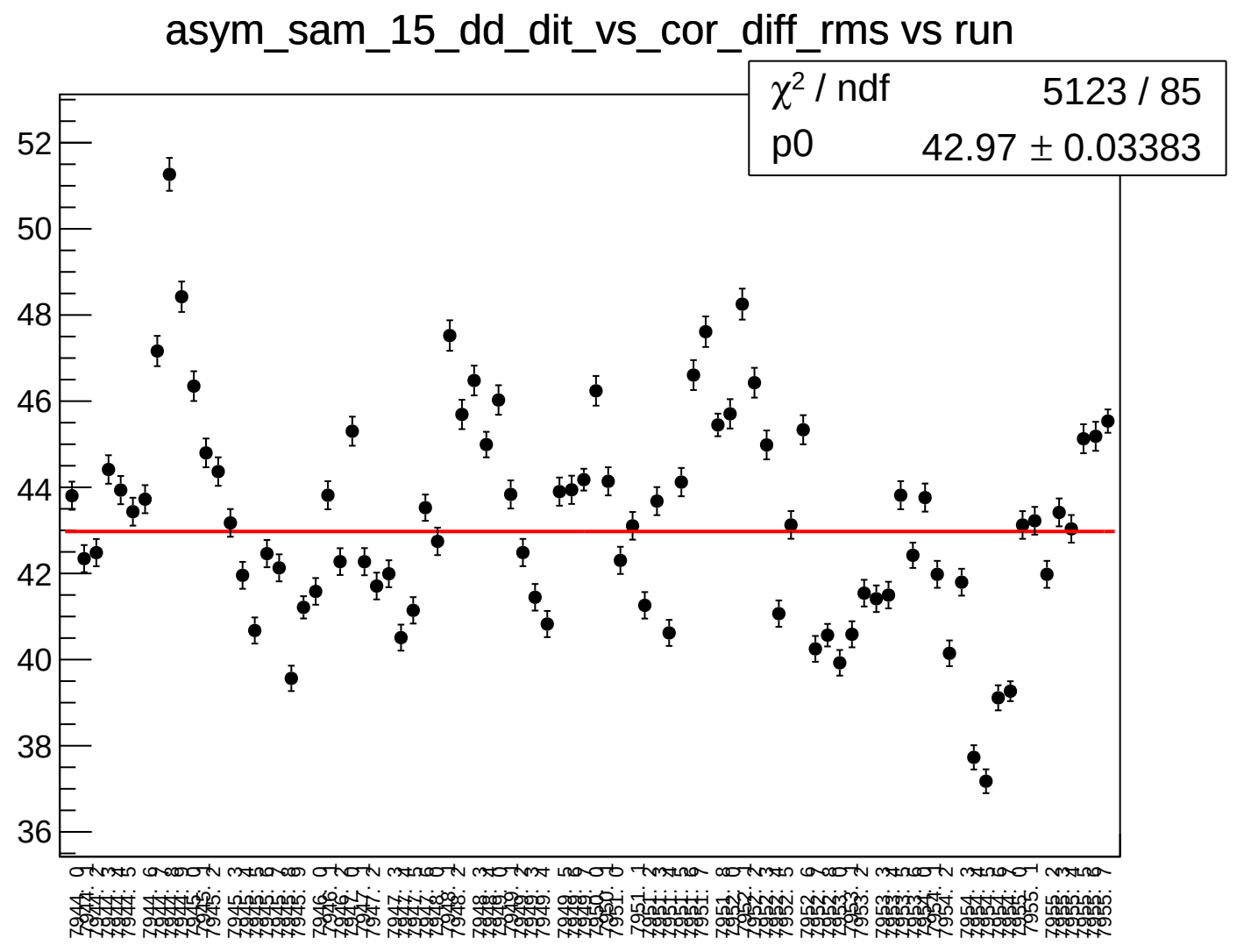

asym_sam_15_dd_rms vs run
χ² / ndf 2.442e+04 / 85
p0 619.4 ± 0.4905
850
800
750
700
650
600
550
500
450

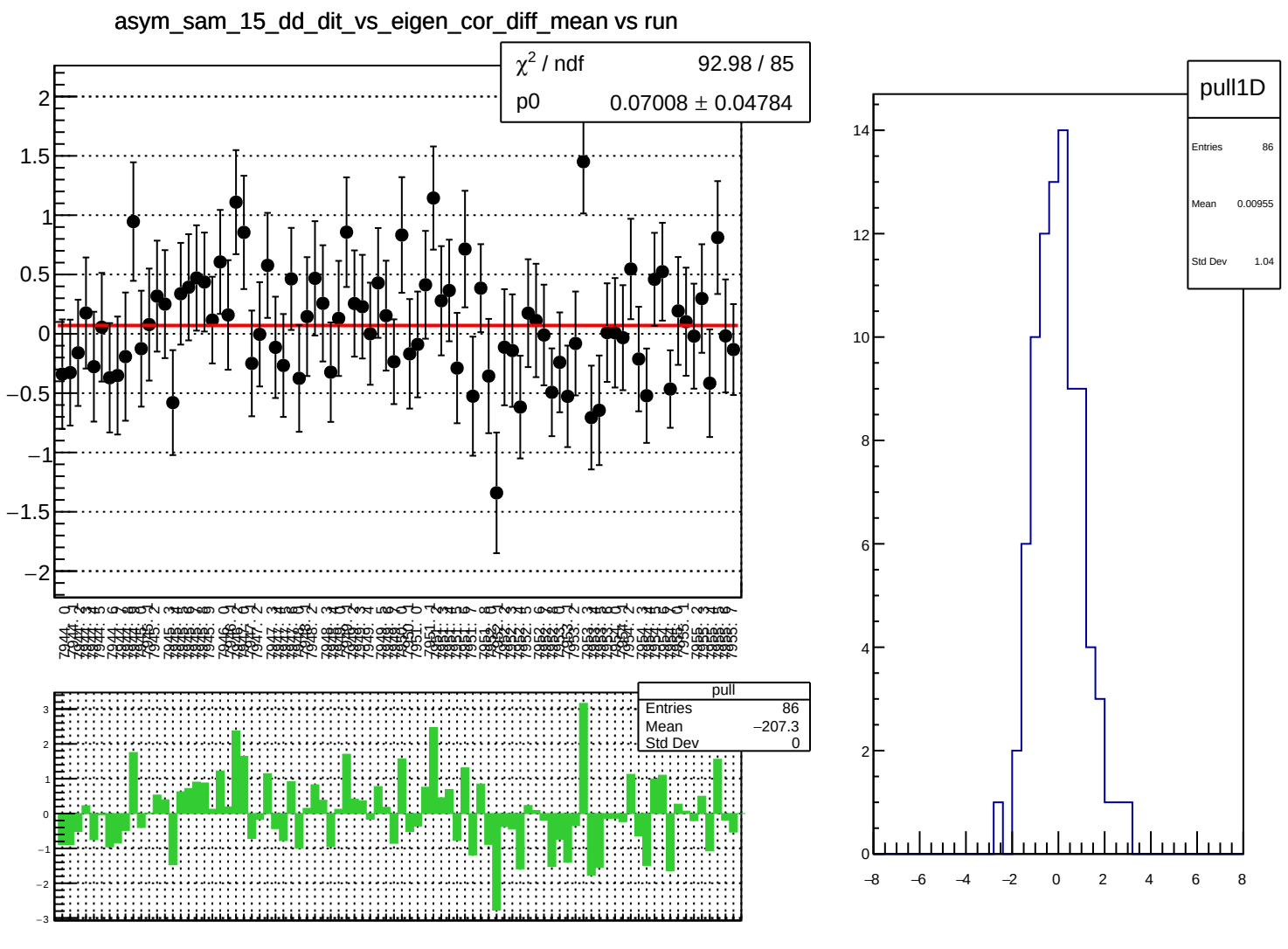

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.35 / 85
p0 1.235e−13 ± 6.994e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 86
Mean −65.26
Std Dev 0
4
3
2
1
0
−1
−2

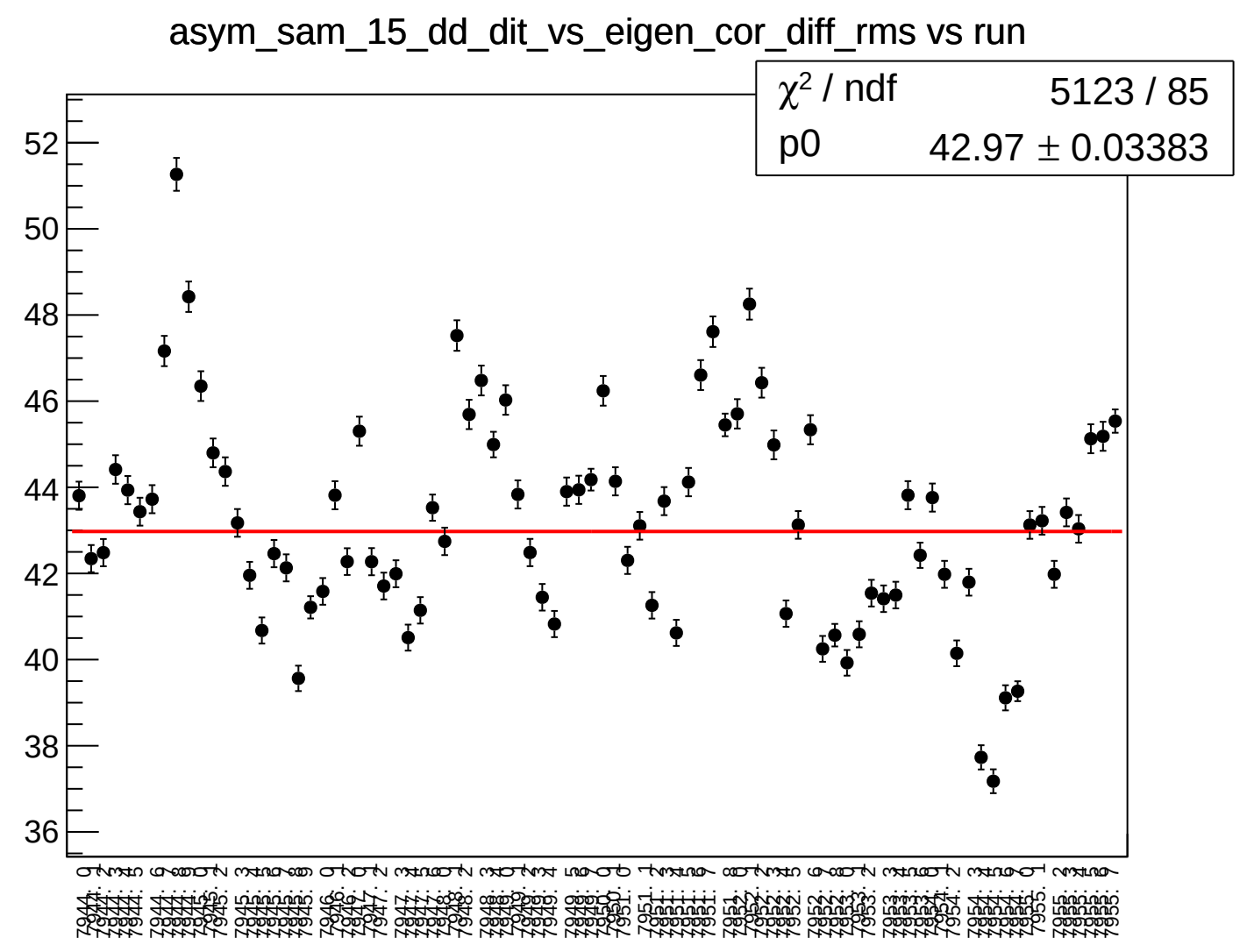

pull1D
Entries 86
Mean −0.04104
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

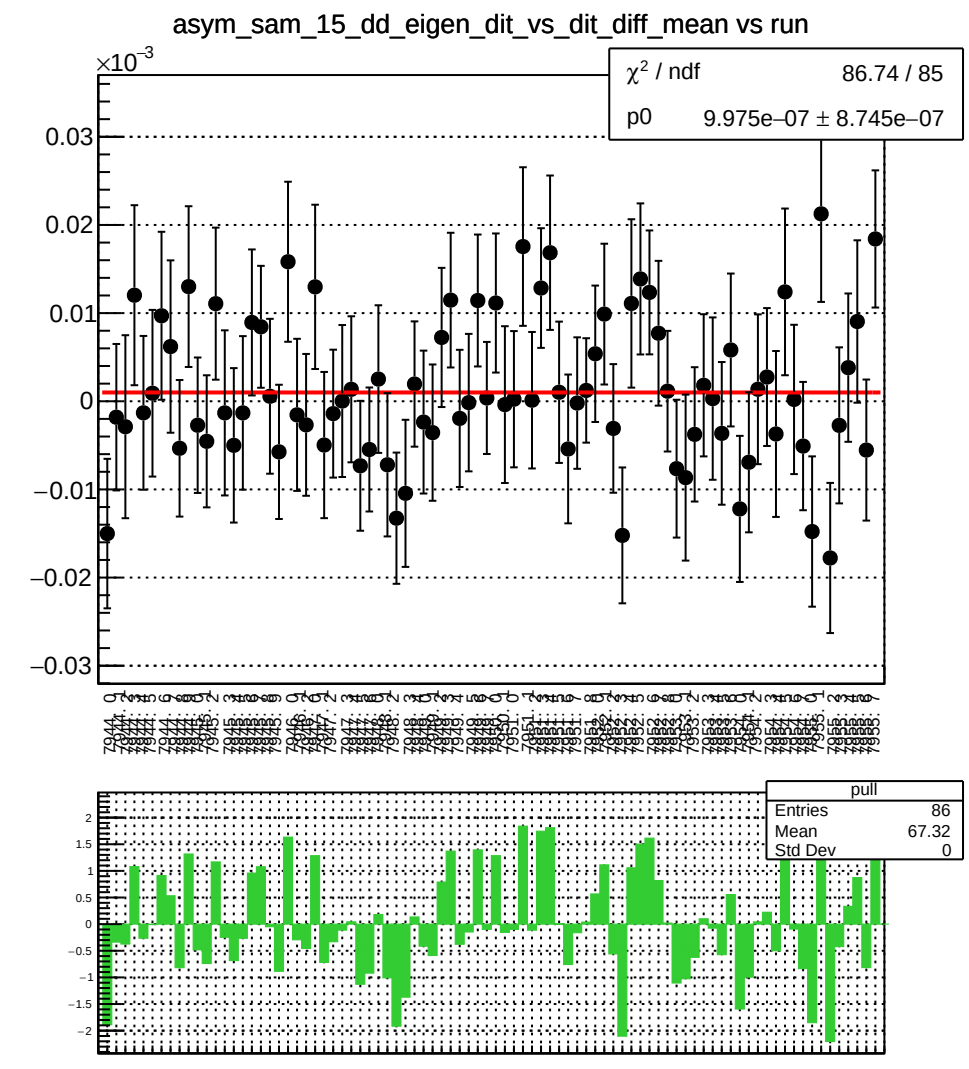

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.39e+05 / 85
p0 4.64e−11 ± 4.945e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

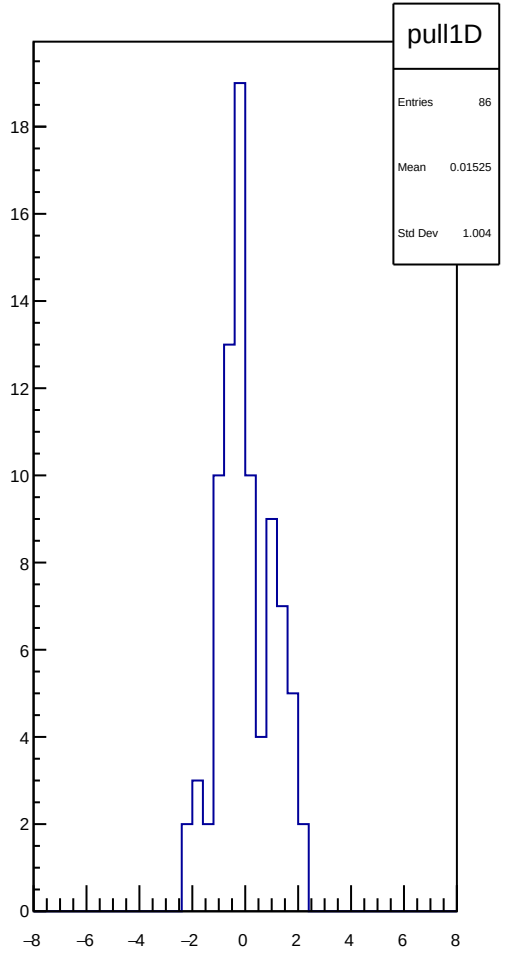

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.98 / 85
p0 0.07008 ± 0.04784
pull
Entries 86
Mean −207.3
Std Dev 0
pull1D
Entries 86
Mean 0.00955
Std Dev 1.04

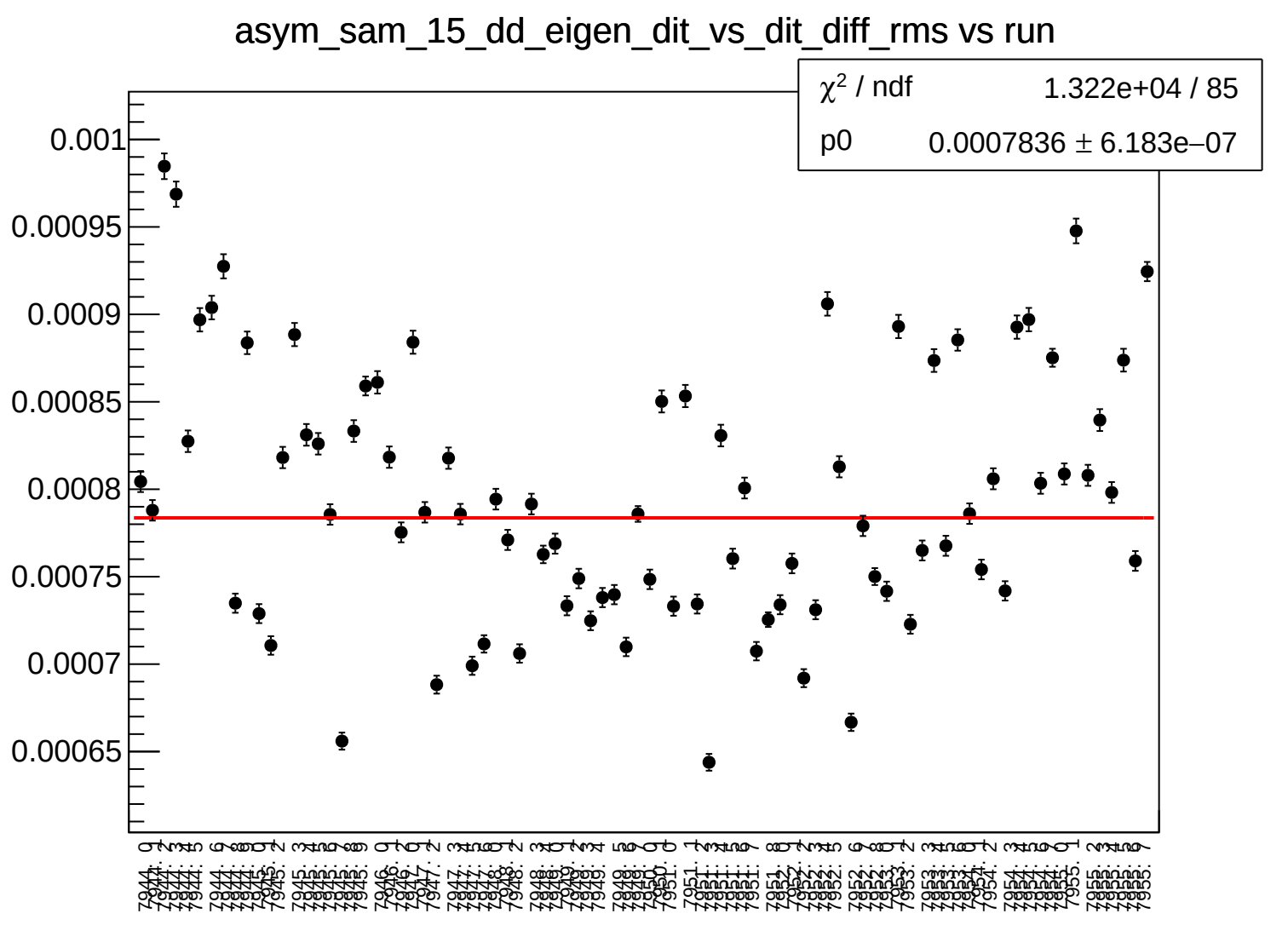

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5123 / 85
p0 42.97 ± 0.03383
52
50
48
46
44
42
40
38
36

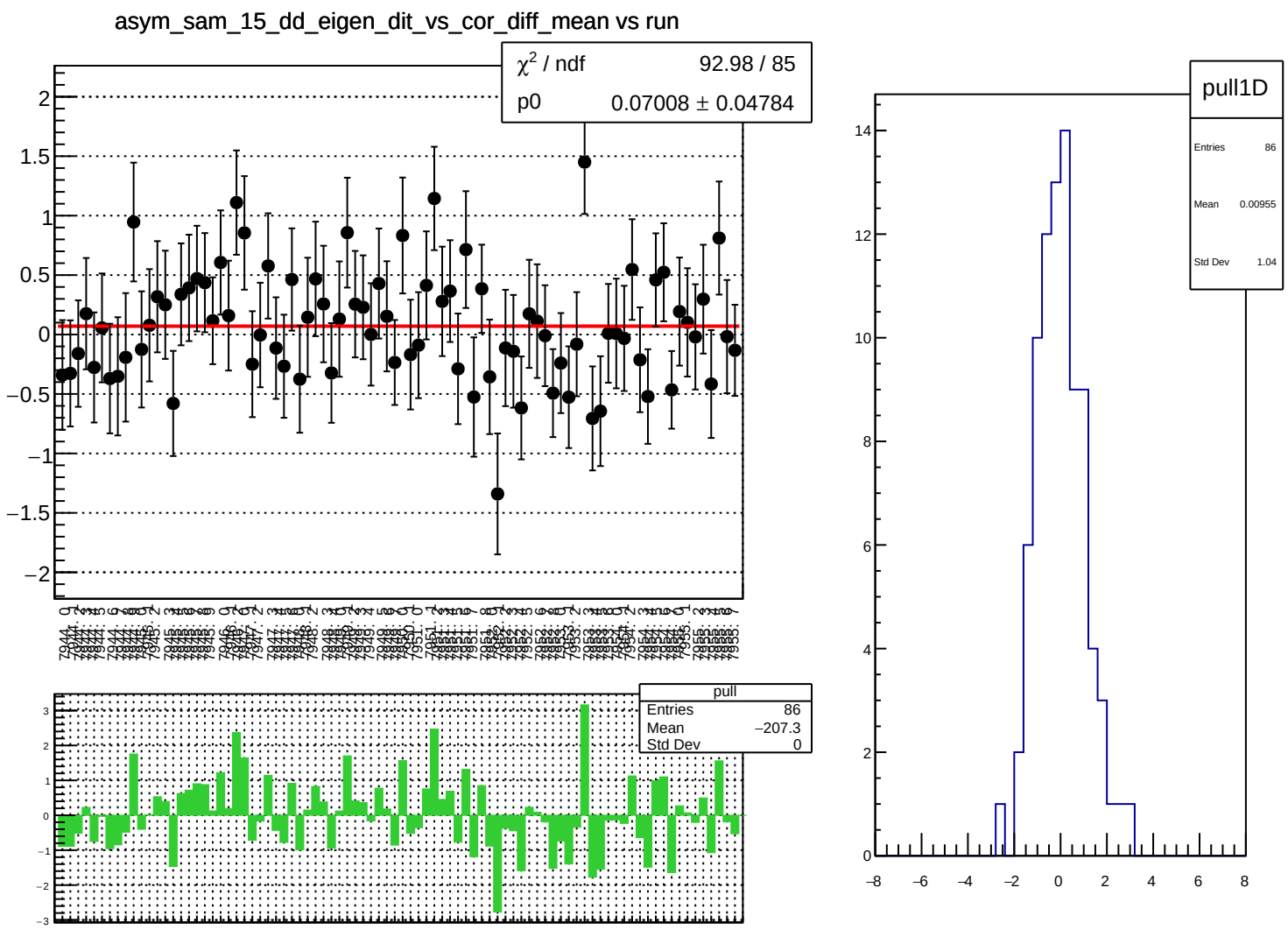

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.98 / 85
p0 0.07008 ± 0.04784
pull
Entries 86
Mean −207.3
Std Dev 0
pull1D
Entries 86
Mean 0.00955
Std Dev 1.04

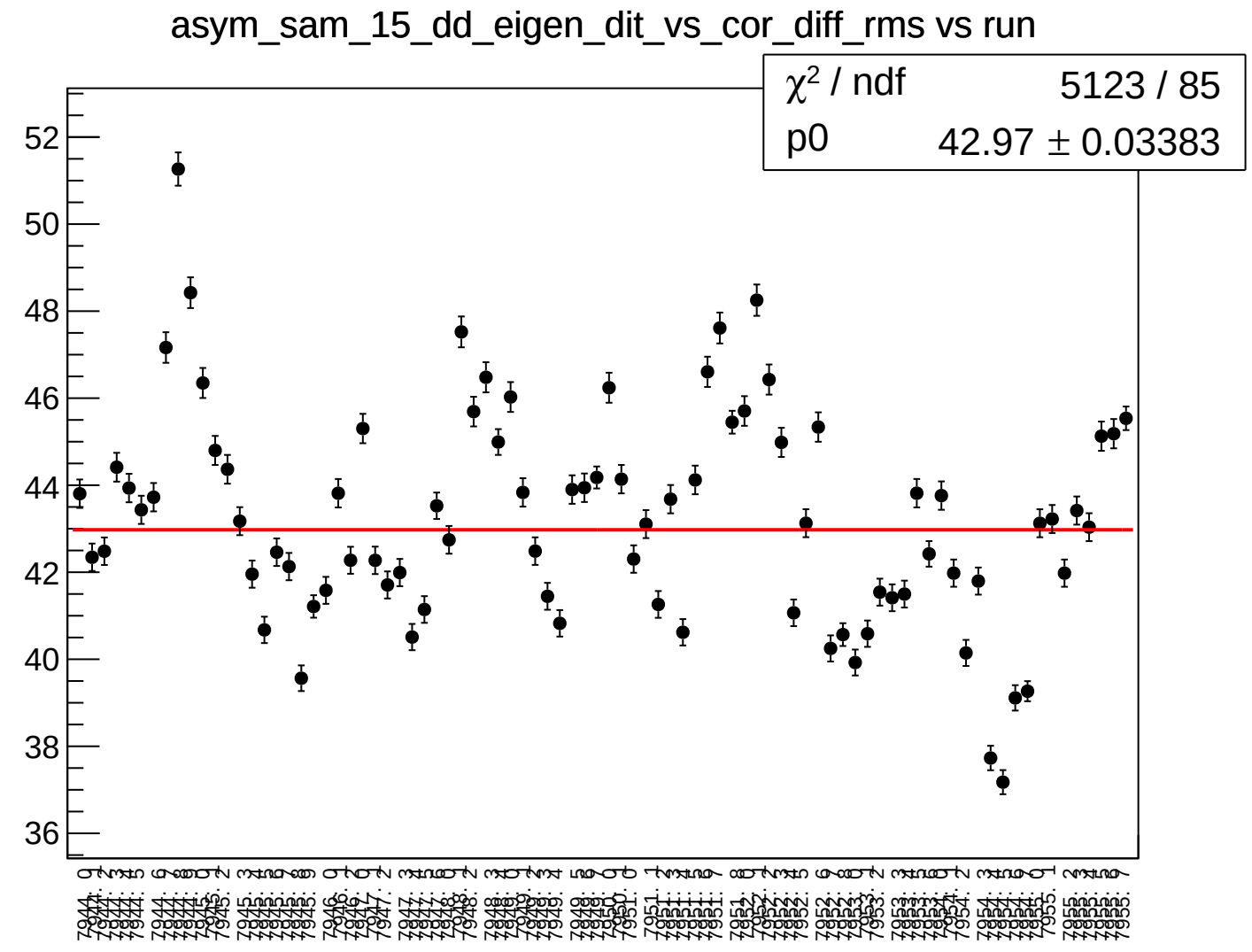

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5123 / 85
p0 42.97 ± 0.03383
52
50
48
46
44
42
40
38
36

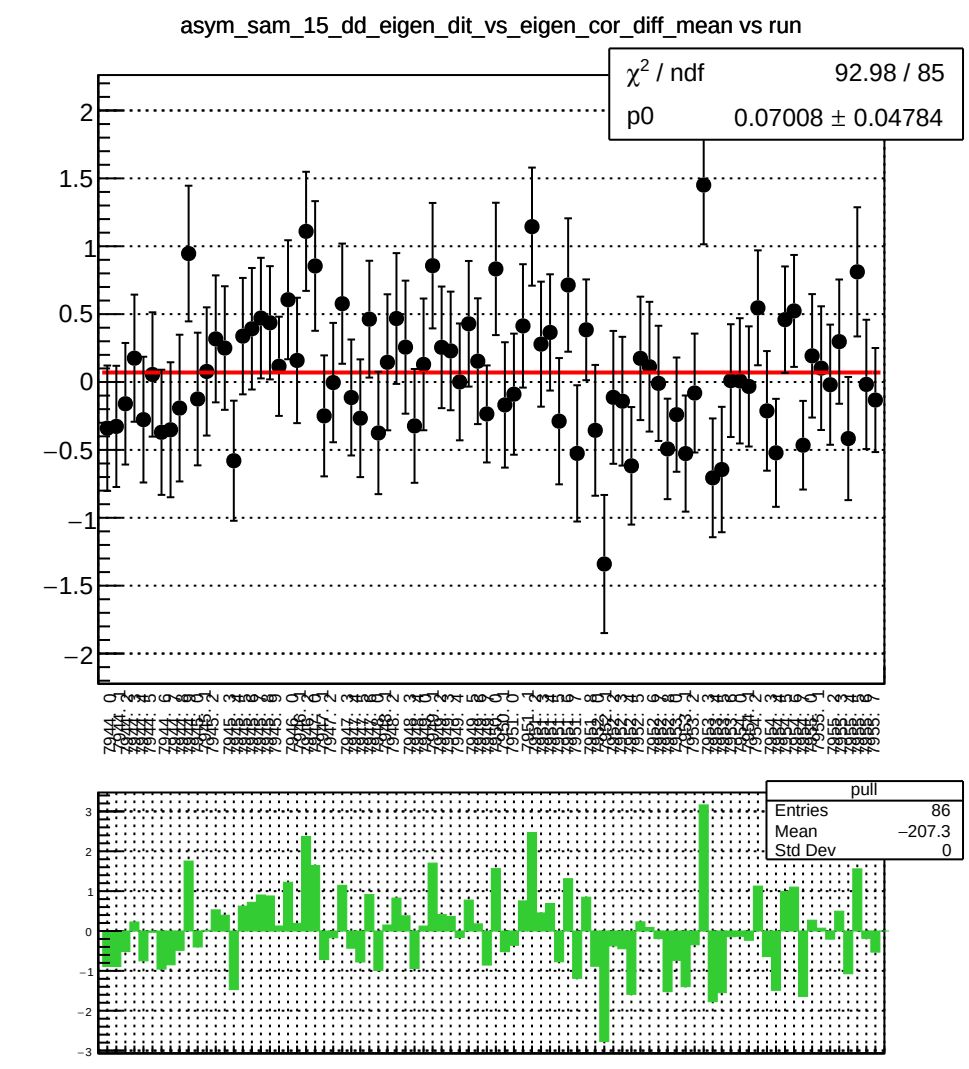

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^-3
χ² / ndf 86.74 / 85
p0 9.975e−07 ± 8.745e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 67.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

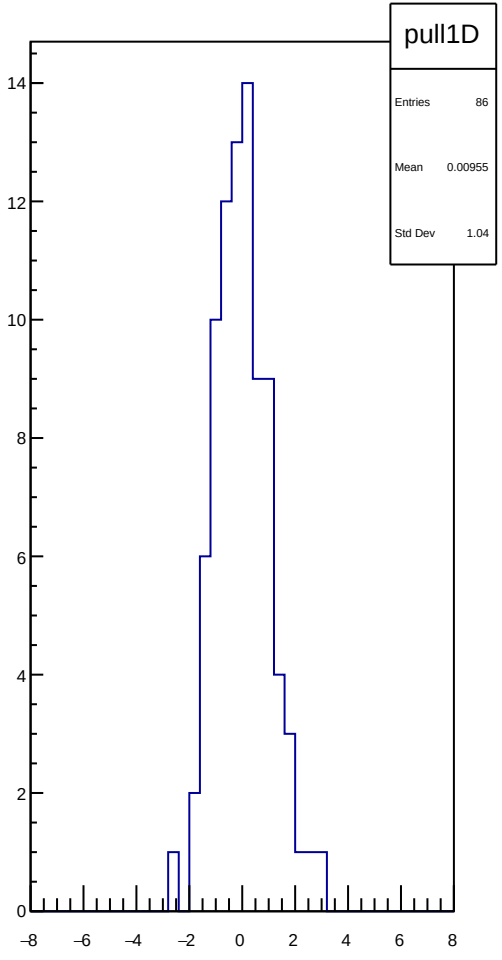

pull1D
Entries 86
Mean 0.01525
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

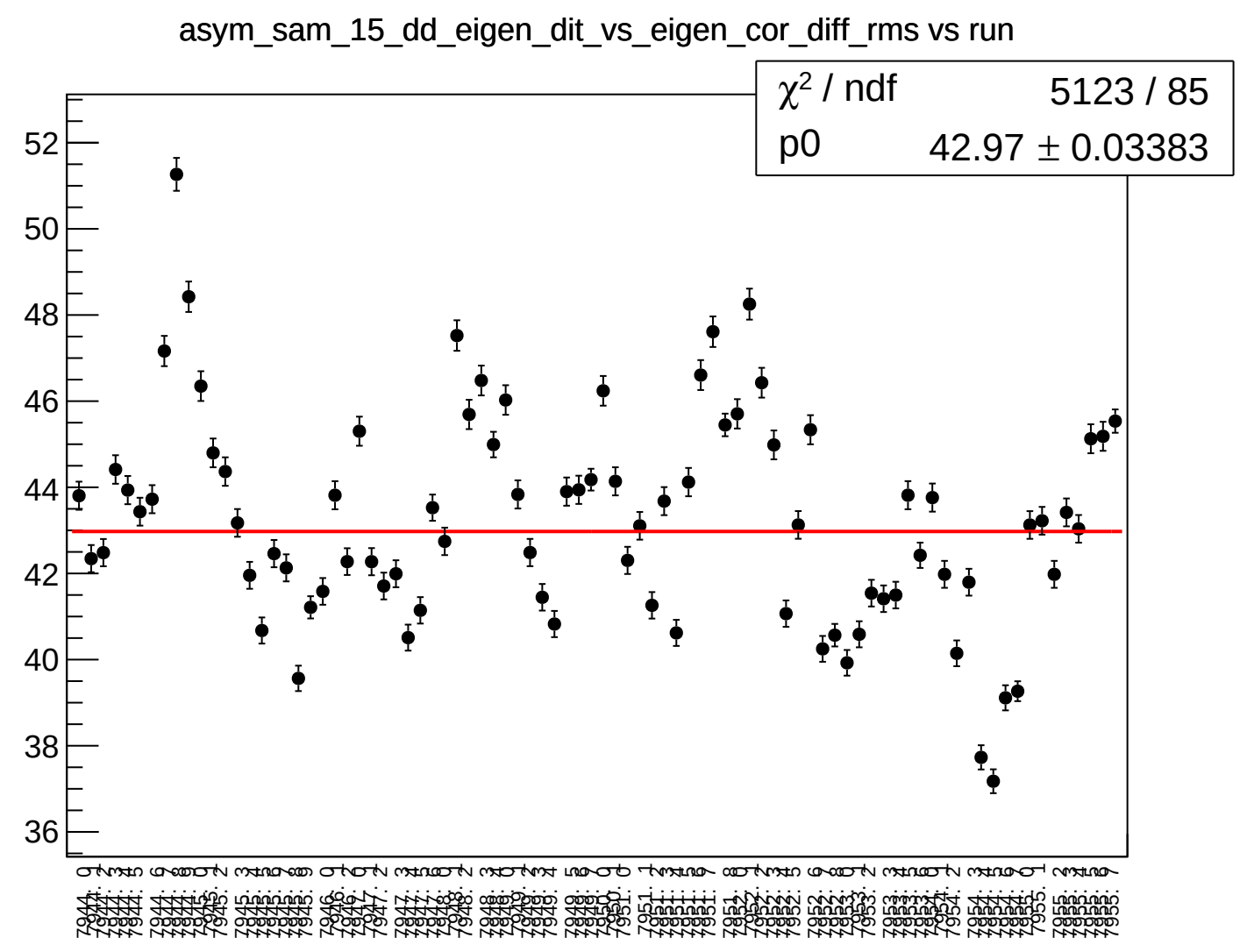

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.322e+04 / 85
p0 0.0007836 ± 6.183e−07
0.001
0.00095
0.0009
0.00085
0.0008
0.00075
0.0007
0.00065

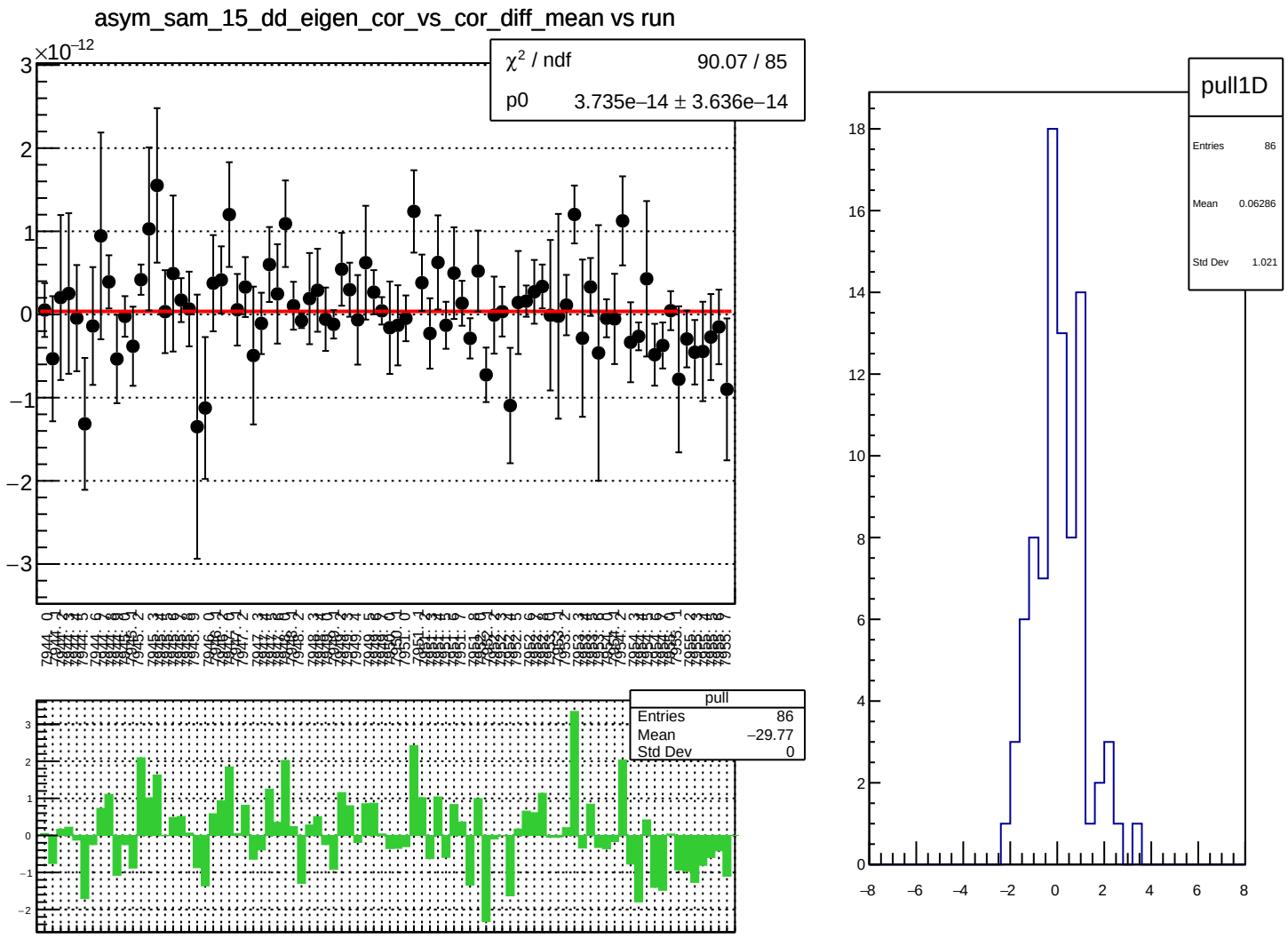

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.98 / 85
p0 0.07008 ± 0.04784
pull
Entries 86
Mean −207.3
Std Dev 0
pull1D
Entries 86
Mean 0.00955
Std Dev 1.04

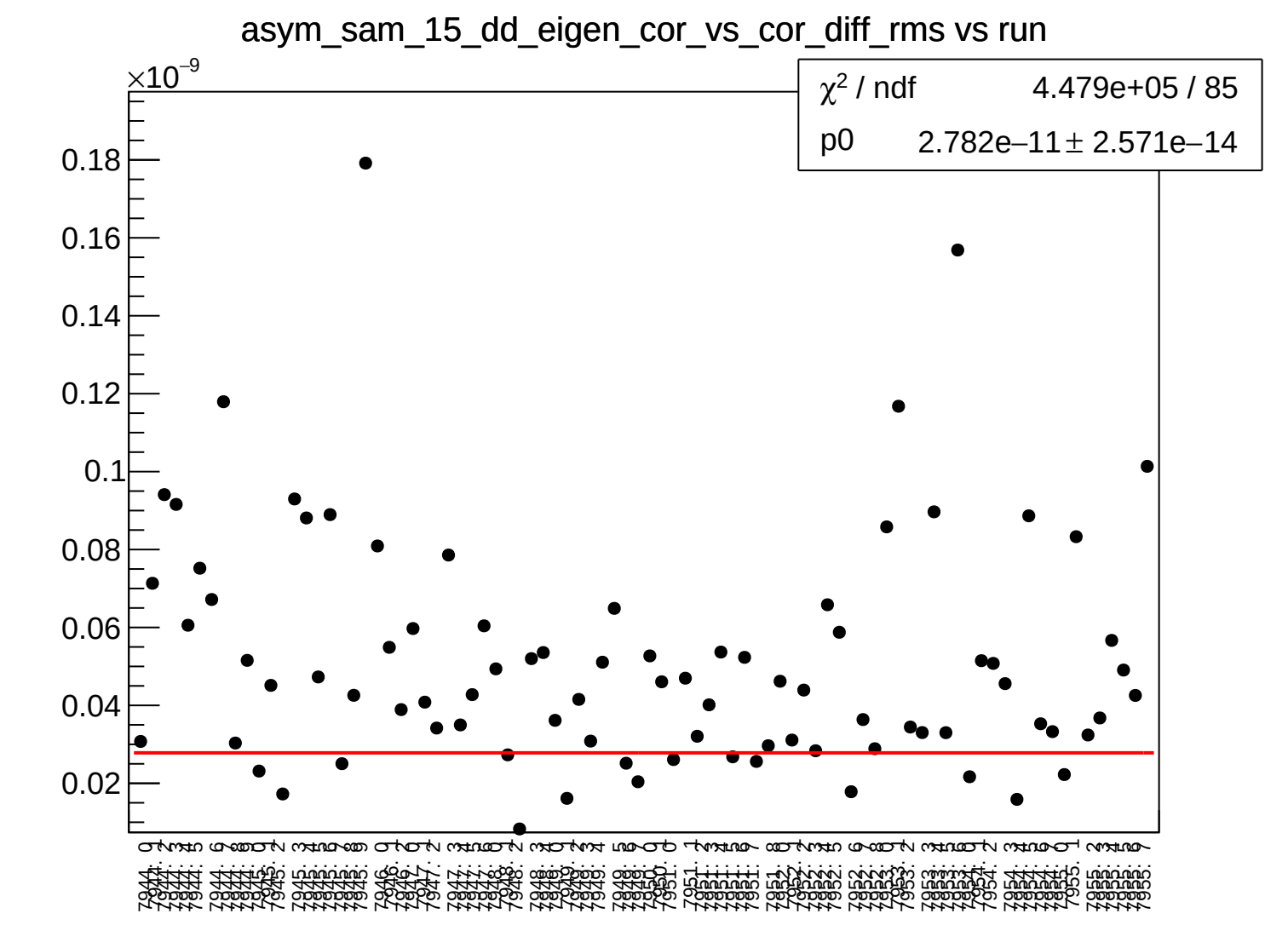

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5123 / 85
p0 42.97 ± 0.03383
52
50
48
46
44
42
40
38
36

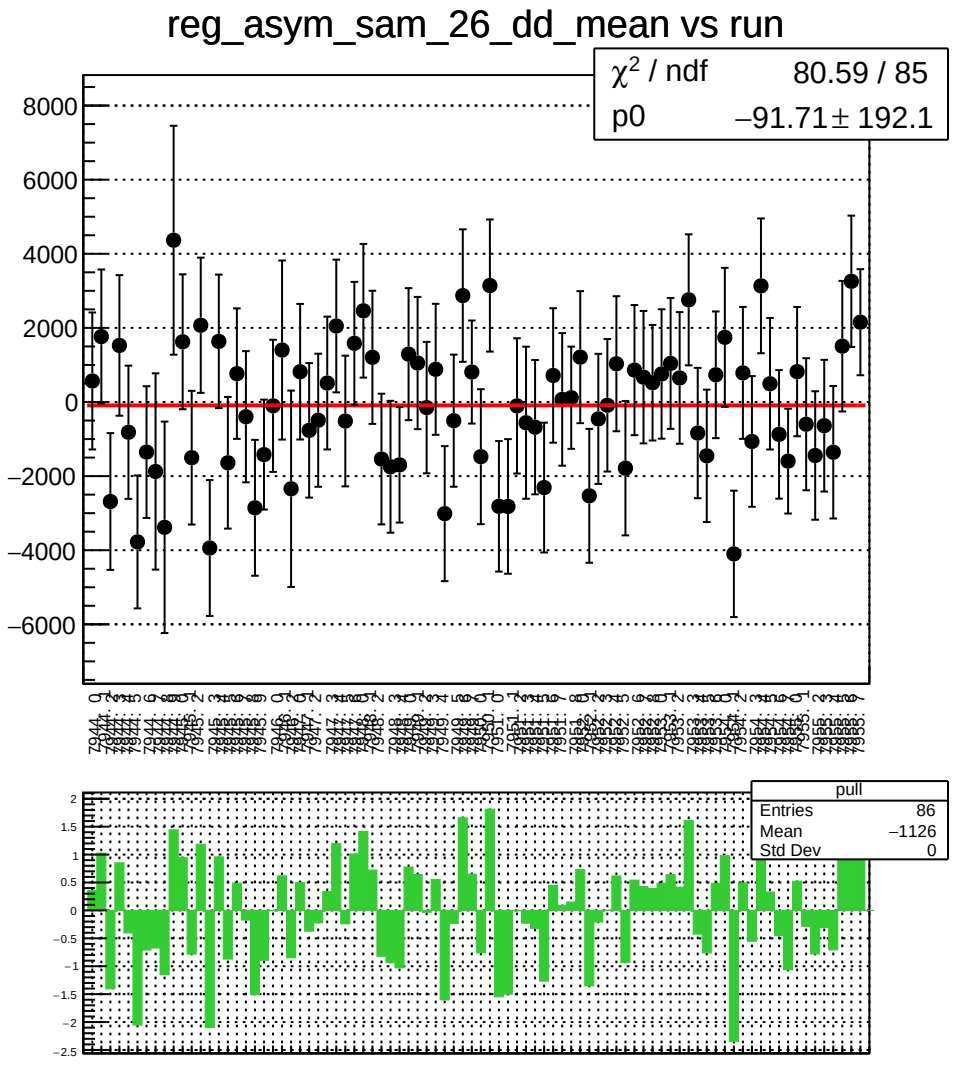

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.98 / 85
p0 0.07008 ± 0.04784
pull
Entries 86
Mean −207.3
Std Dev 0

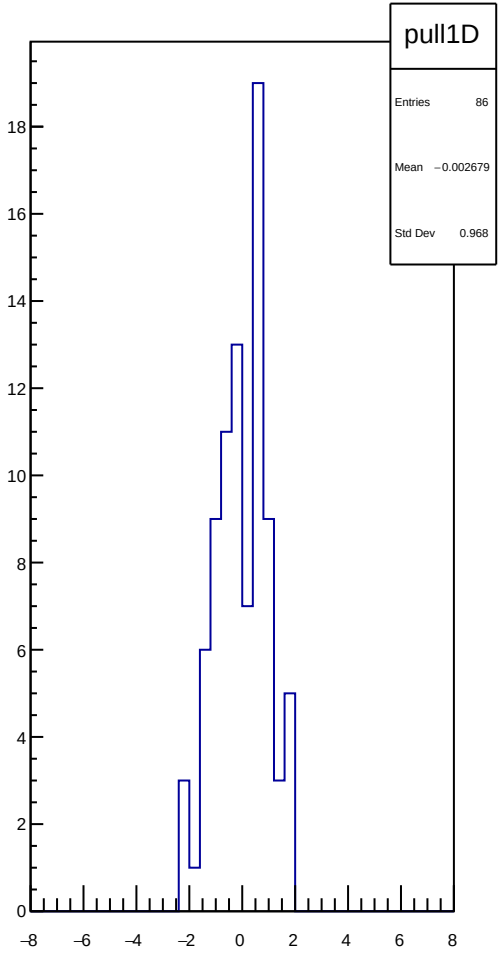

pull1D
Entries 86
Mean 0.00955
Std Dev 1.04

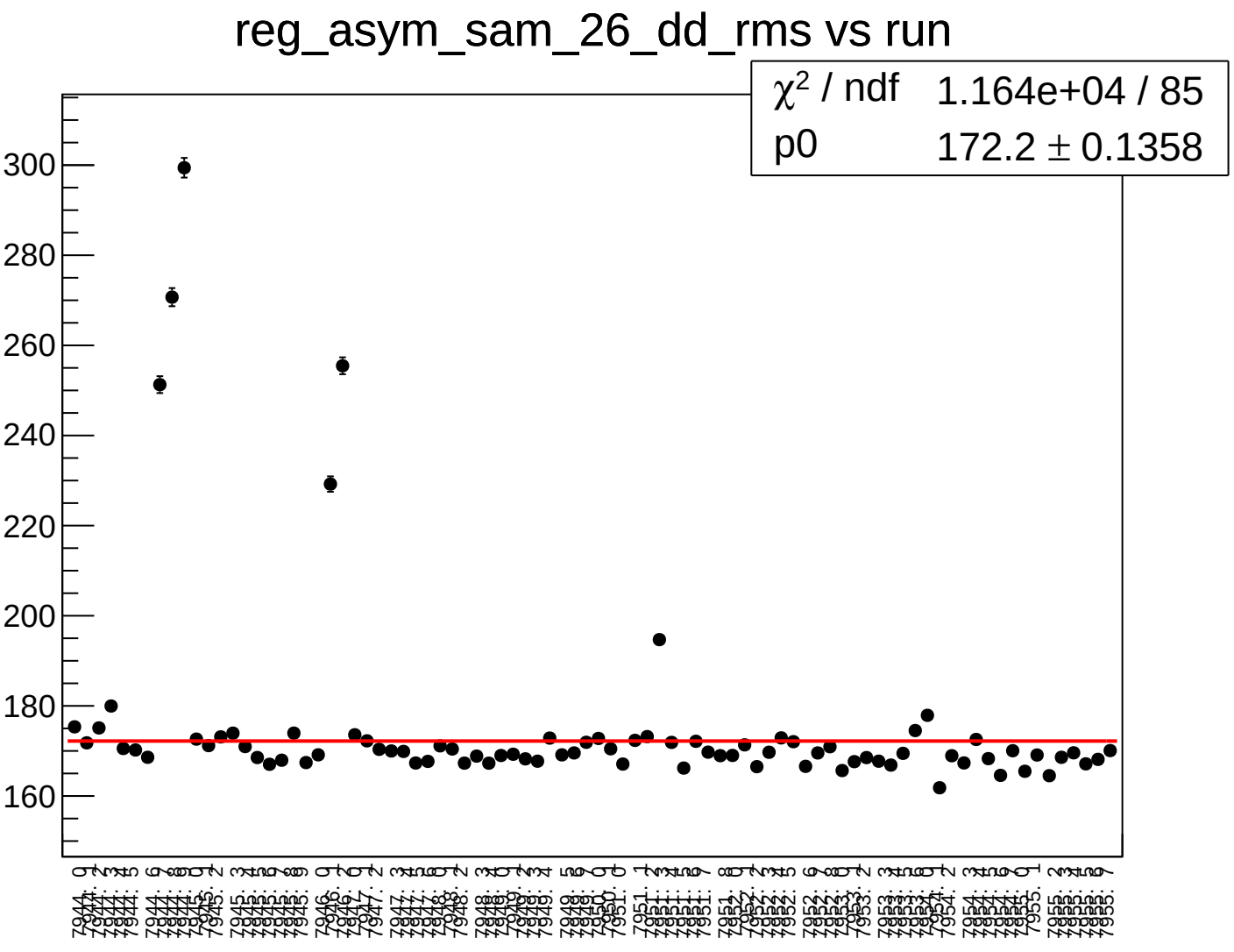

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5123 / 85
p0 42.97 ± 0.03383
52
50
48
46
44
42
40
38
36

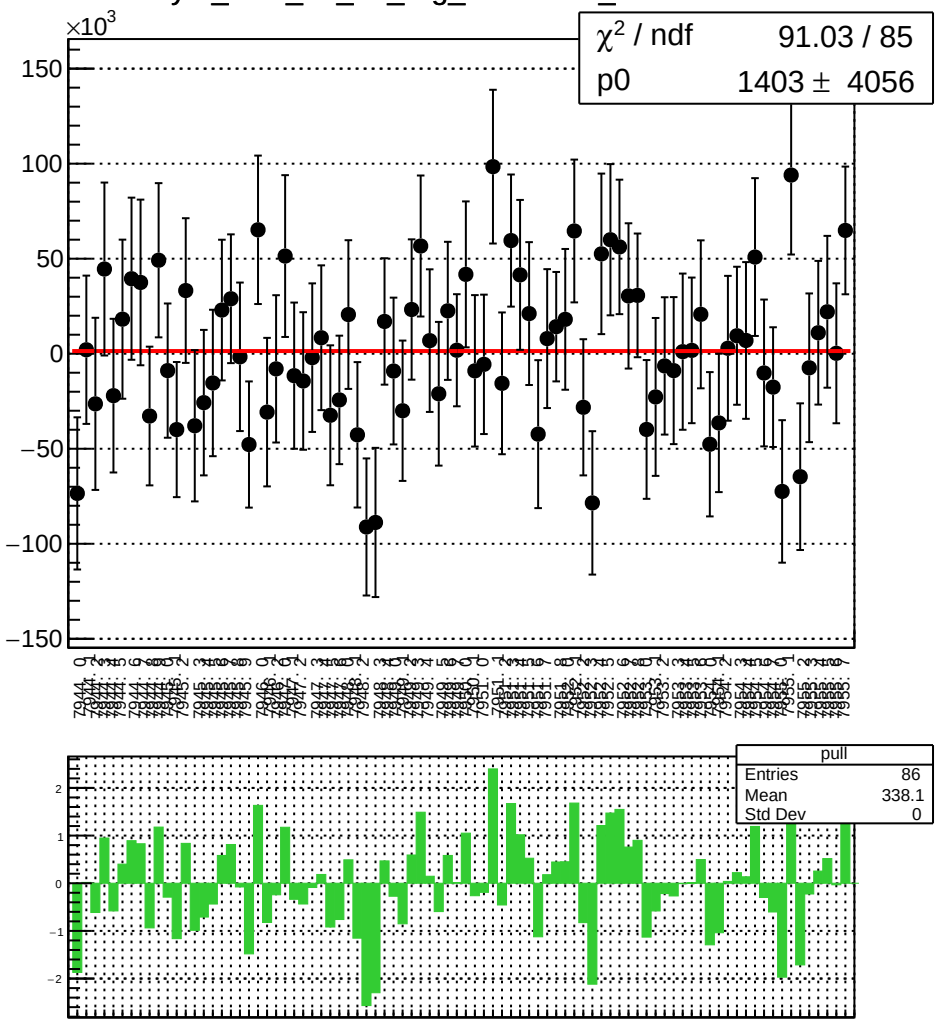

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.07 / 85
p0 3.735e−14 ± 3.636e−14
pull
Entries 86
Mean −29.77
Std Dev 0
pull1D
Entries 86
Mean 0.06286
Std Dev 1.021

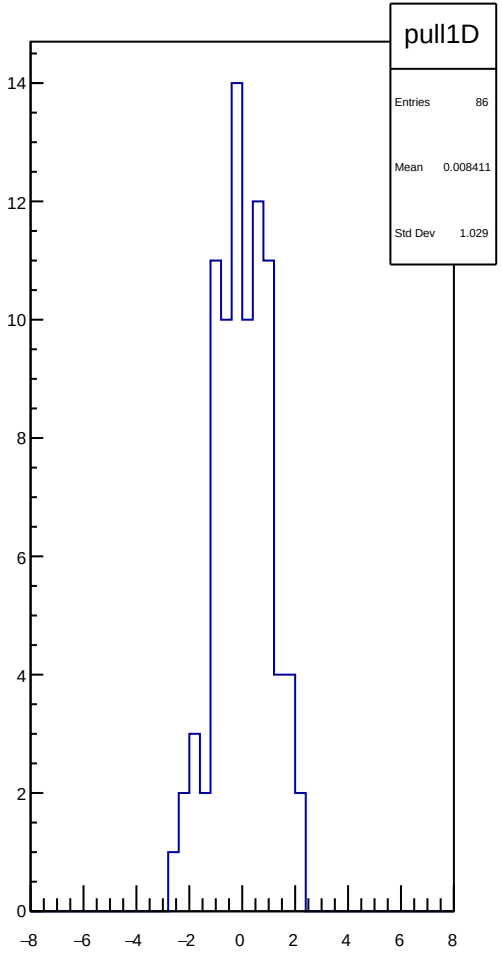

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.479e+05 / 85
p0 2.782e−11 ± 2.571e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

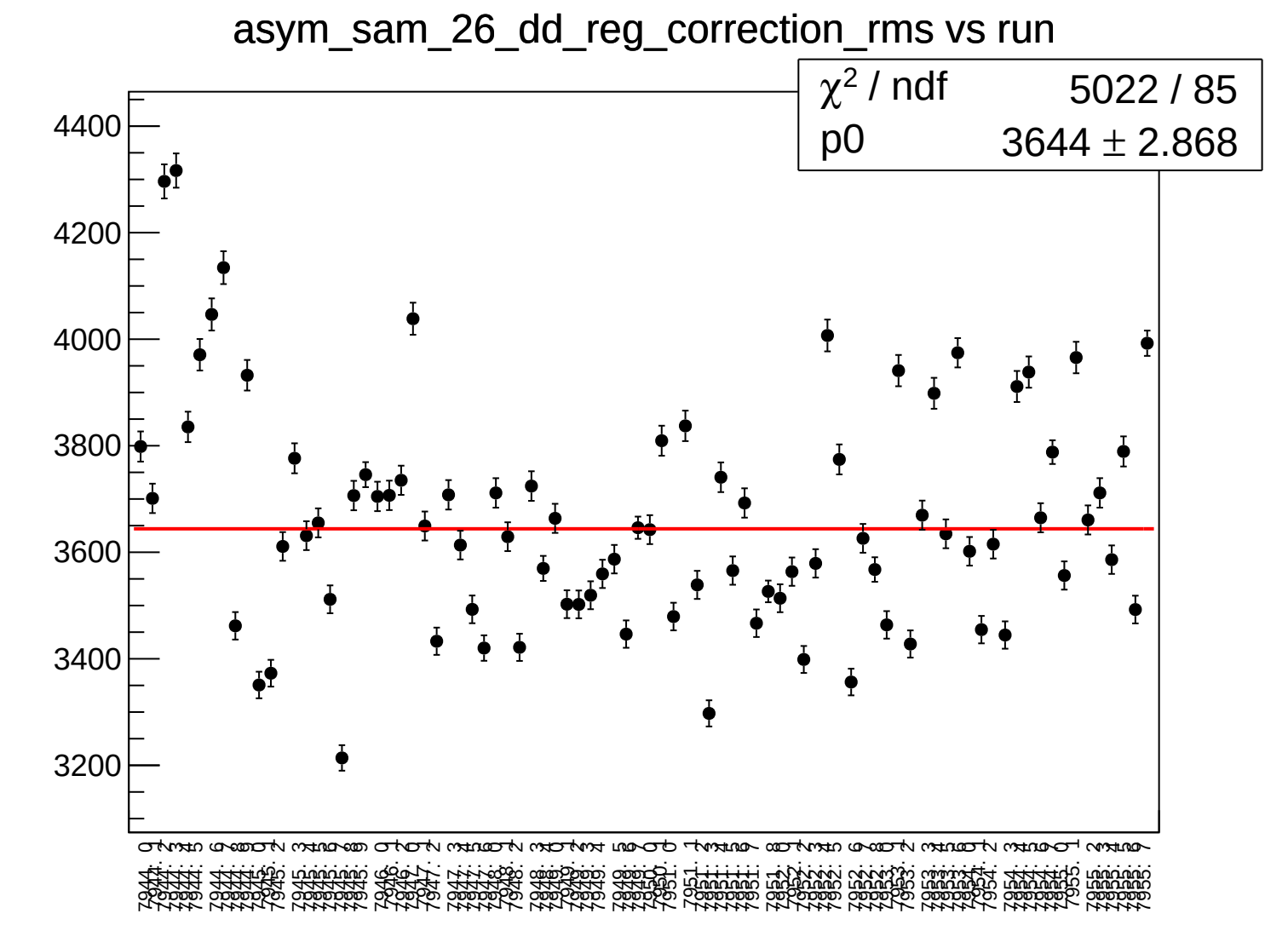

reg_asym_sam_26_dd_mean vs run
χ² / ndf 80.59 / 85
p0 −91.71 ± 192.1
pull
Entries 86
Mean −1126
Std Dev 0

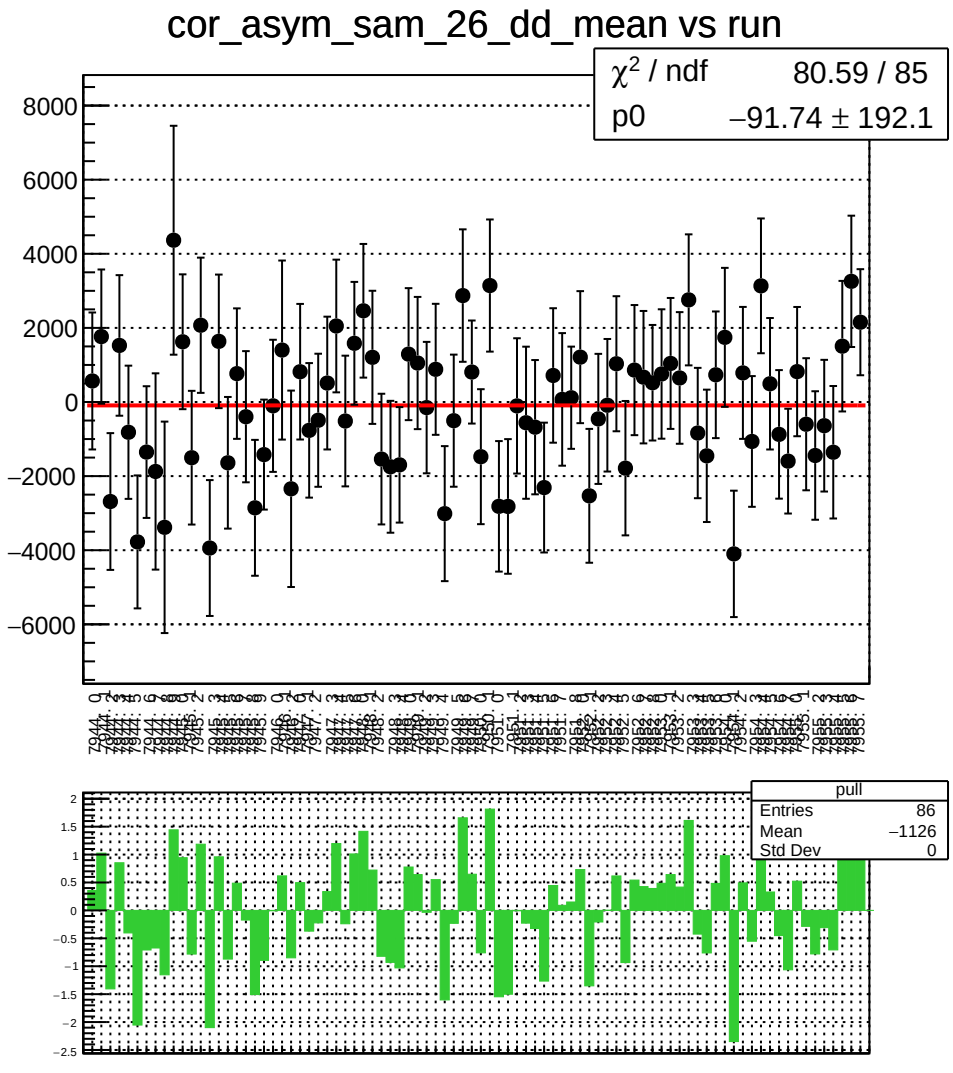

pull1D
Entries 86
Mean −0.002679
Std Dev 0.968

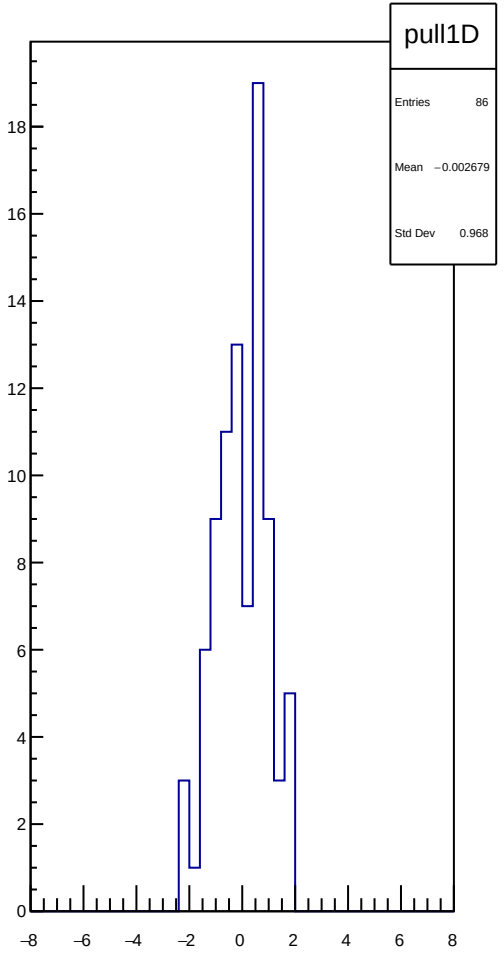

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1.164e+04 / 85
p0 172.2 ± 0.1358
300
280
260
240
220
200
180
160

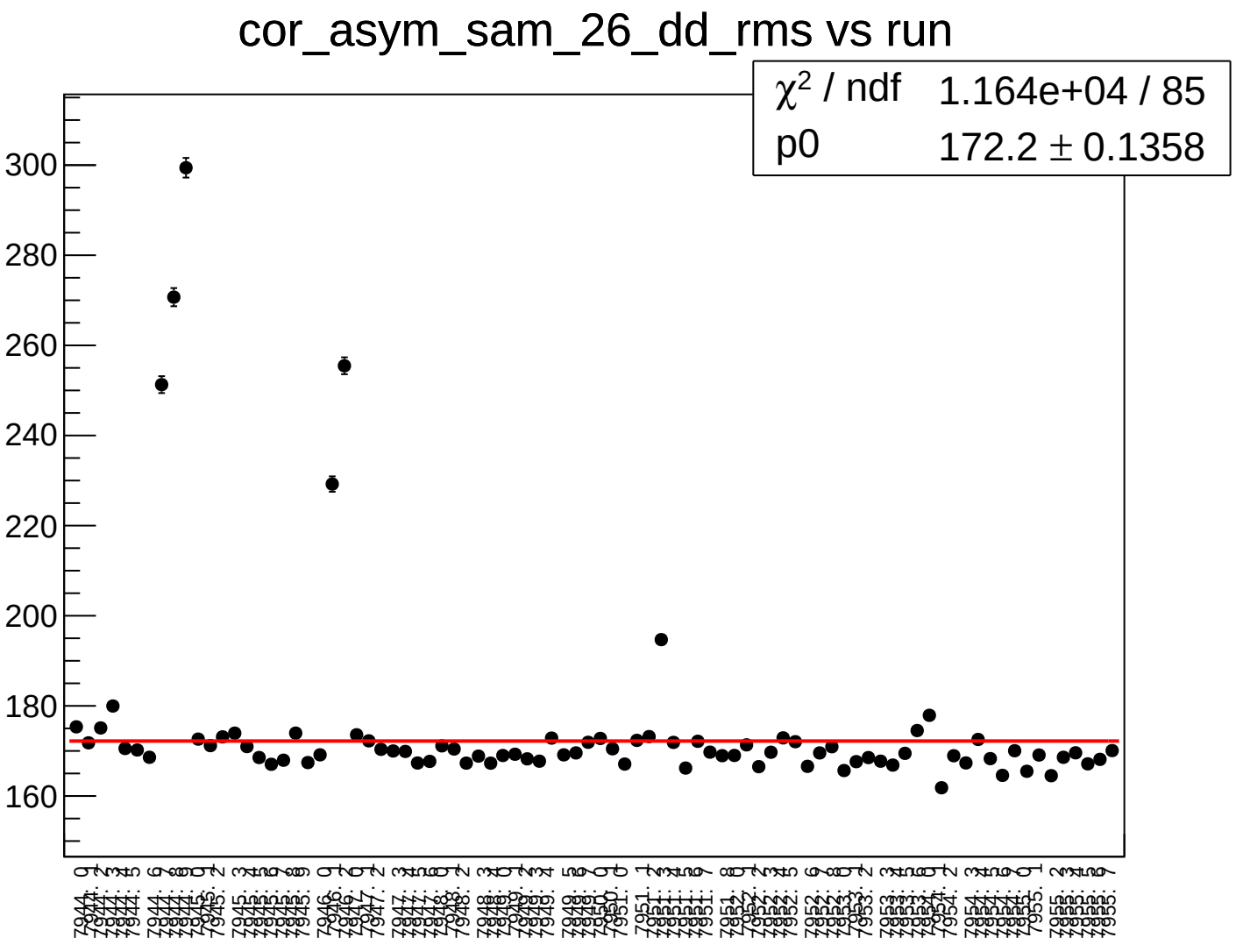

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.03 / 85
p0 1403 ± 4056
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 338.1
Std Dev 0
2
1
0
−1
−2

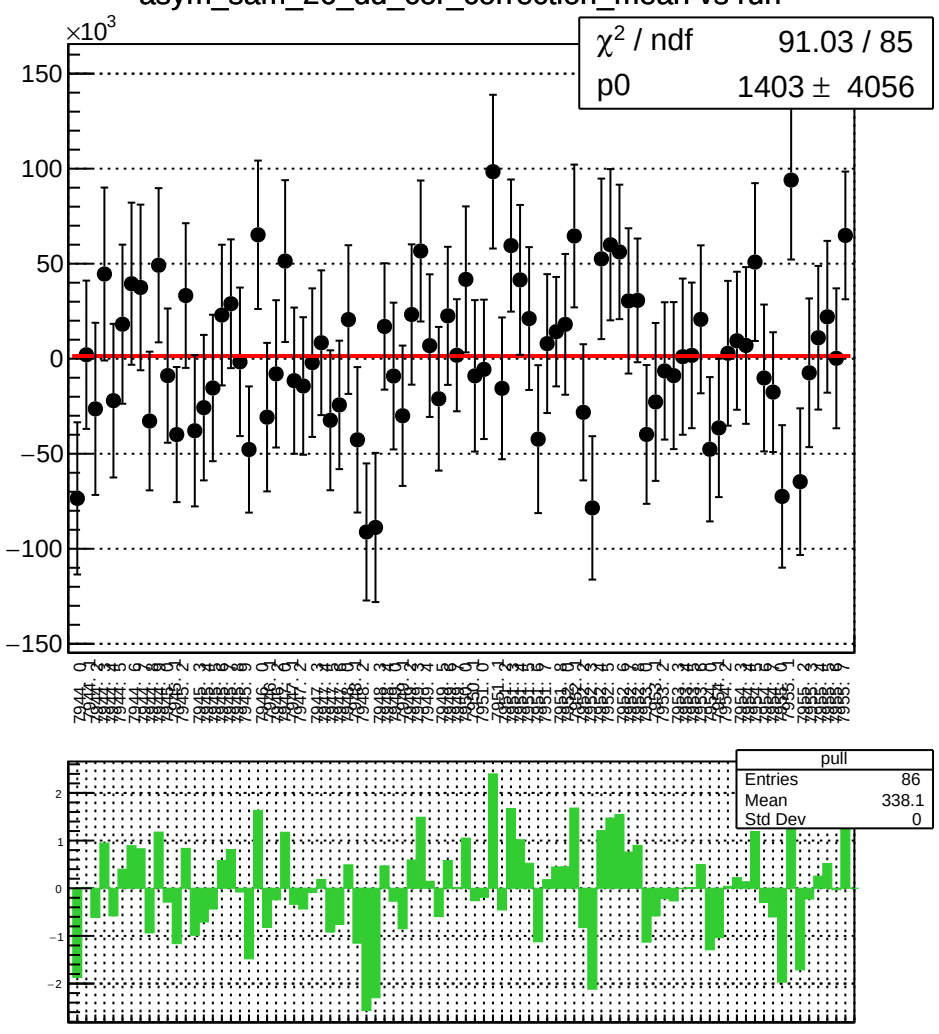

pull1D
Entries 86
Mean 0.008411
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

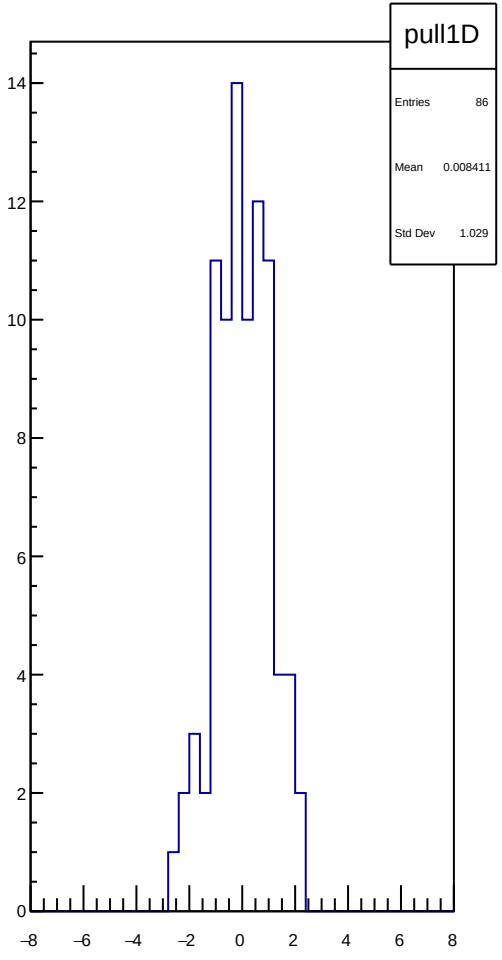

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 5022 / 85
p0 3644 ± 2.868
4400
4200
4000
3800
3600
3400
3200

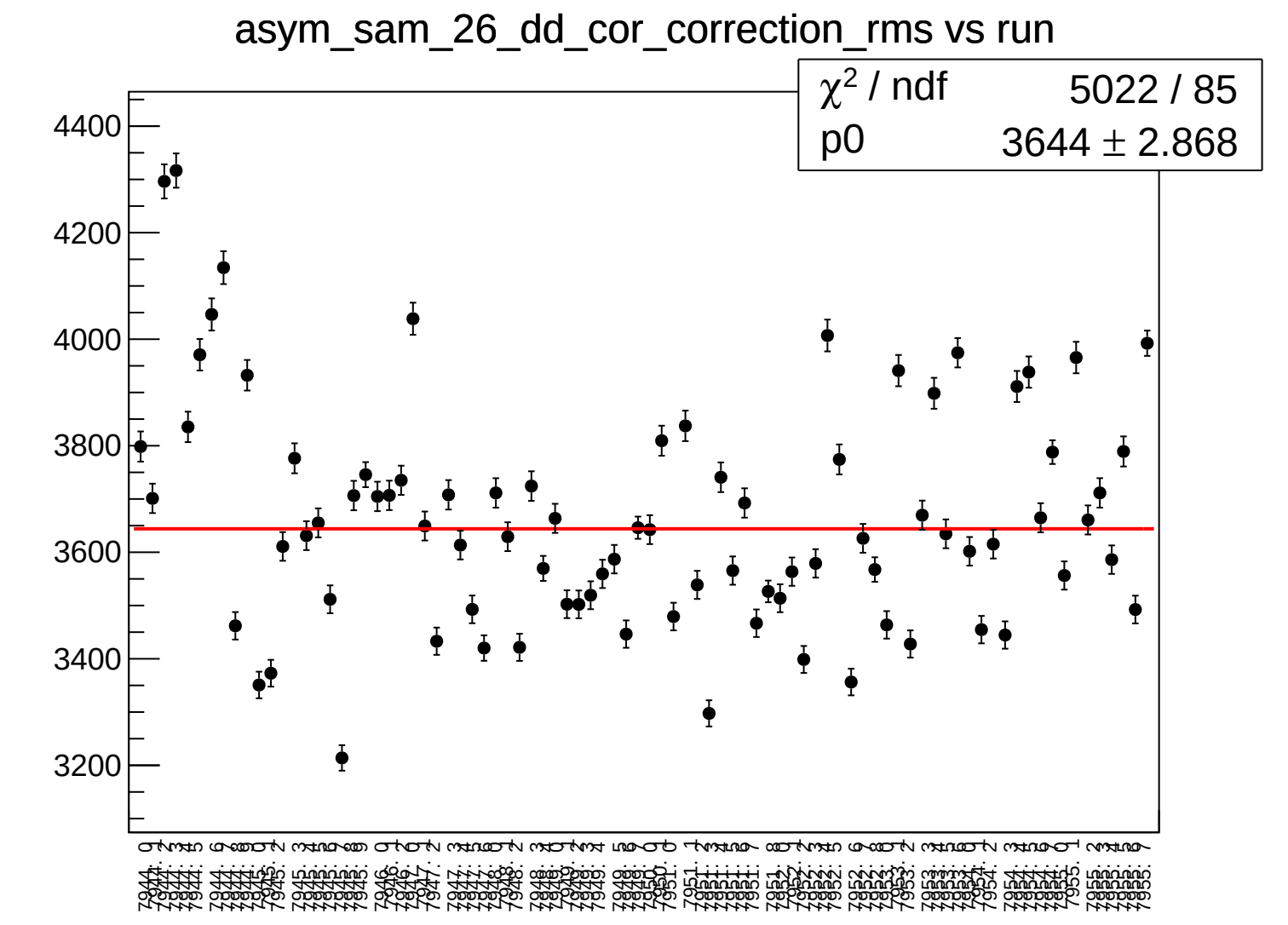

cor_asym_sam_26_dd_mean vs run
χ² / ndf 80.59 / 85
p0 −91.74 ± 192.1
pull
Entries 86
Mean −1126
Std Dev 0

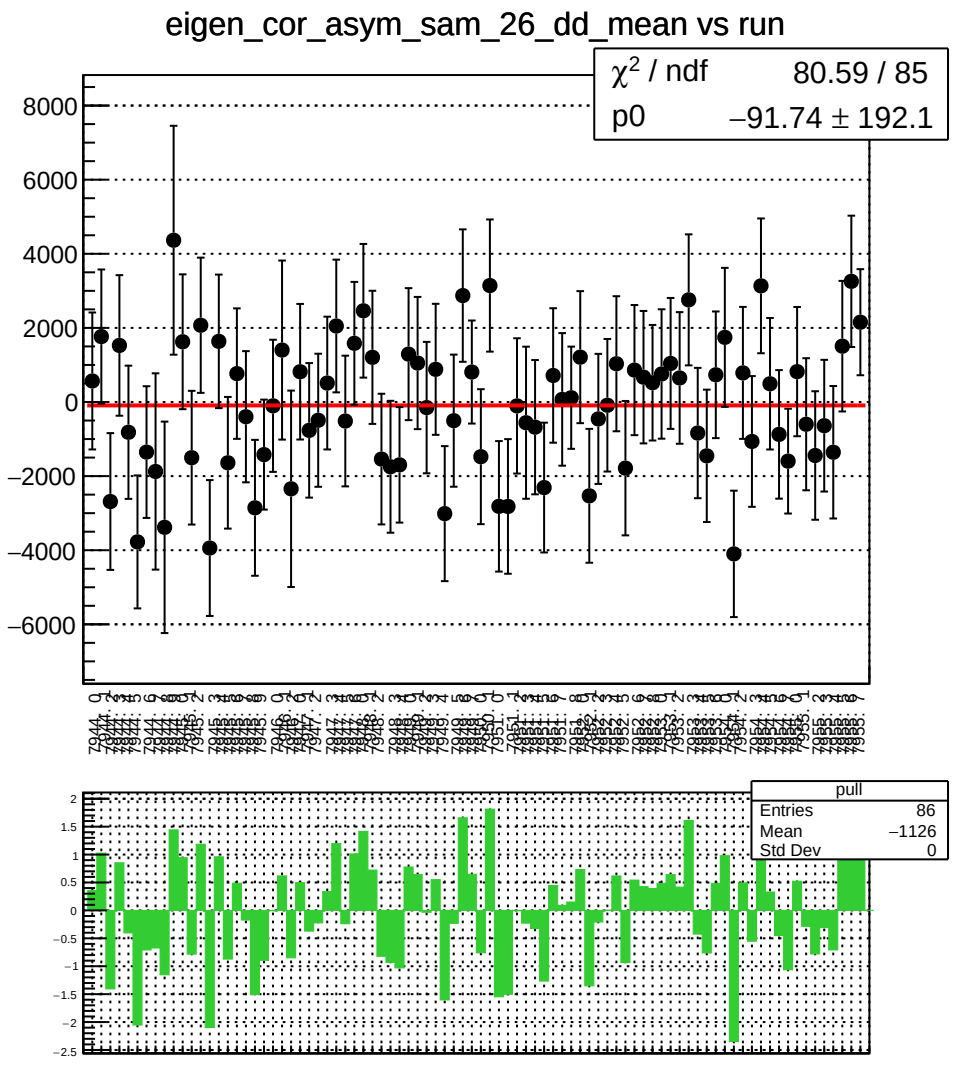

pull1D
Entries 86
Mean −0.002679
Std Dev 0.968

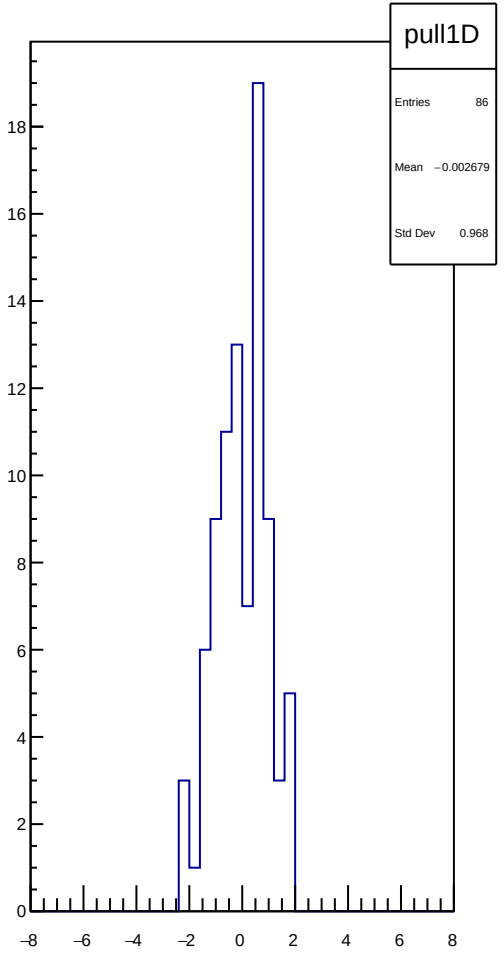

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1.164e+04 / 85
p0 172.2 ± 0.1358
300
280
260
240
220
200
180
160

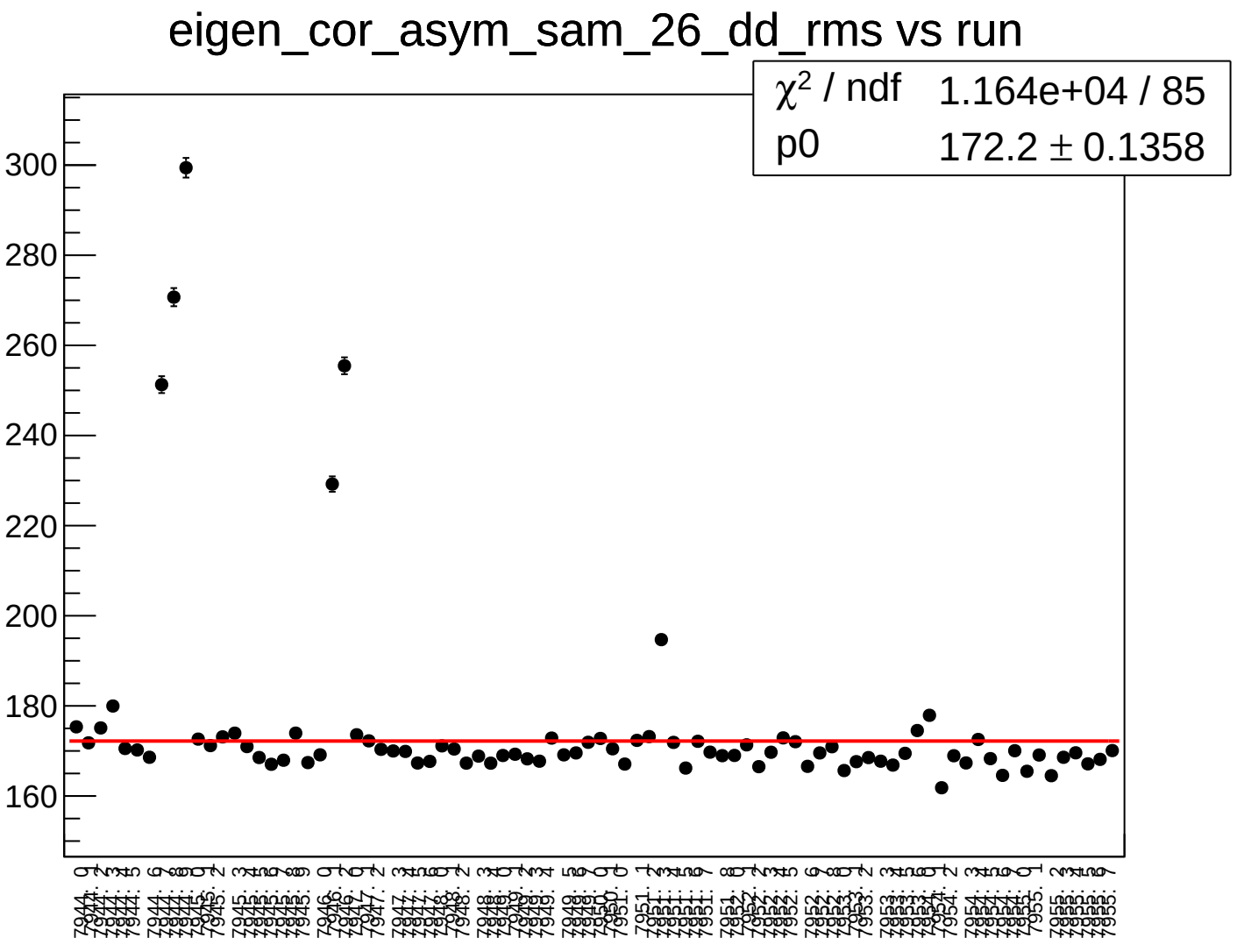

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.03 / 85
p0 1403 ± 4056
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 338.1
Std Dev 0
2
1
0
−1
−2

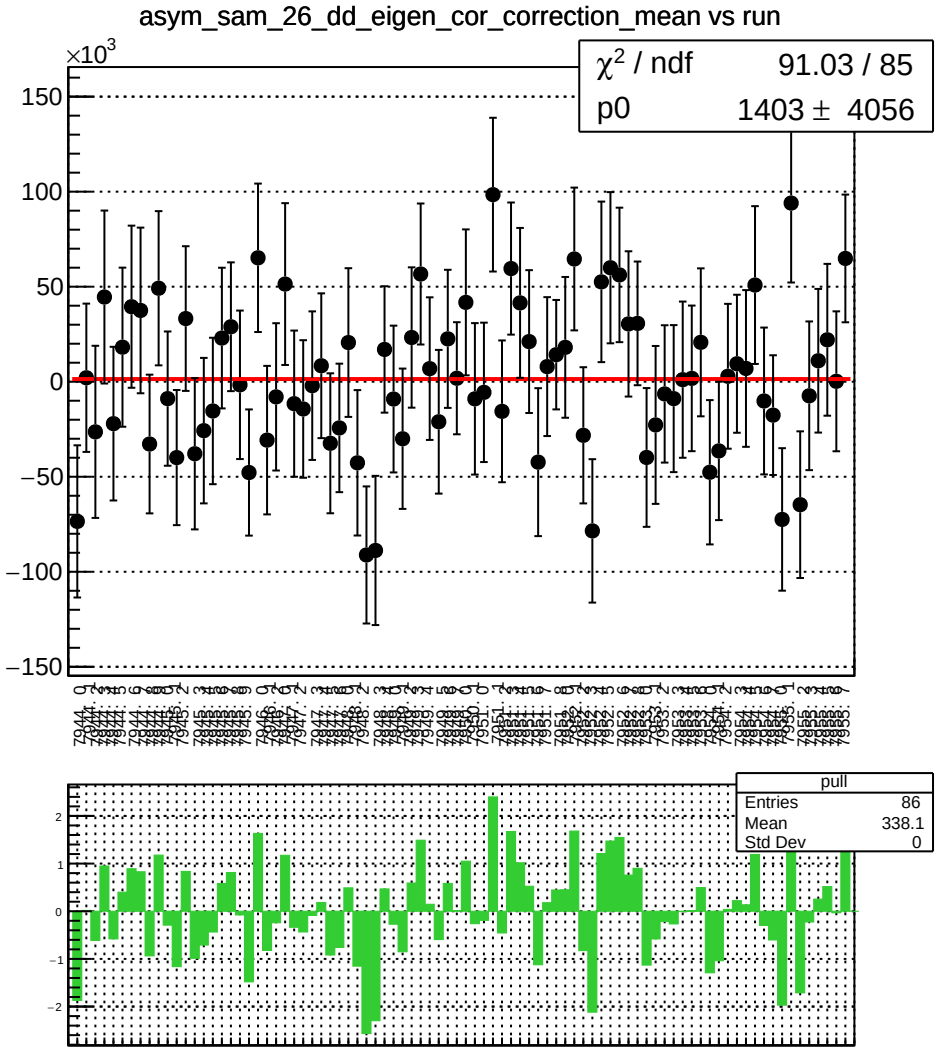

pull1D
Entries 86
Mean 0.008411
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

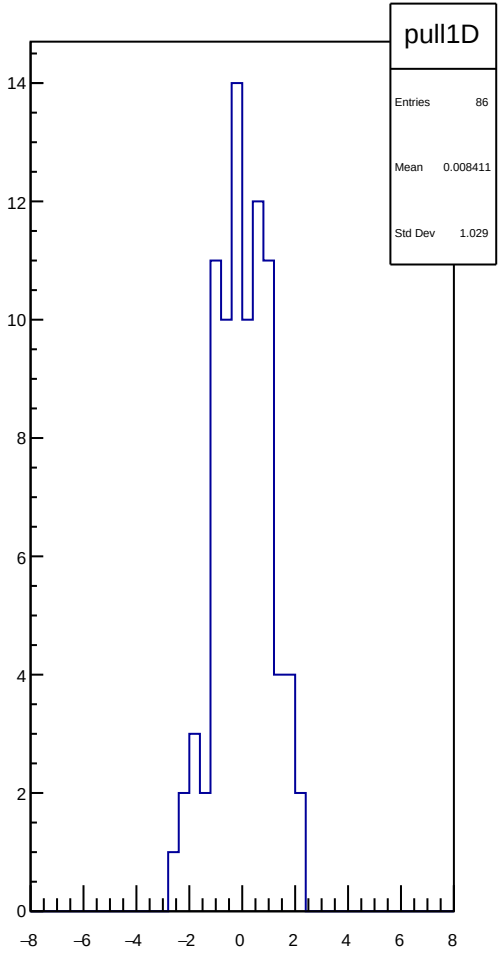

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 5022 / 85
p0 3644 ± 2.868
4400
4200
4000
3800
3600
3400
3200

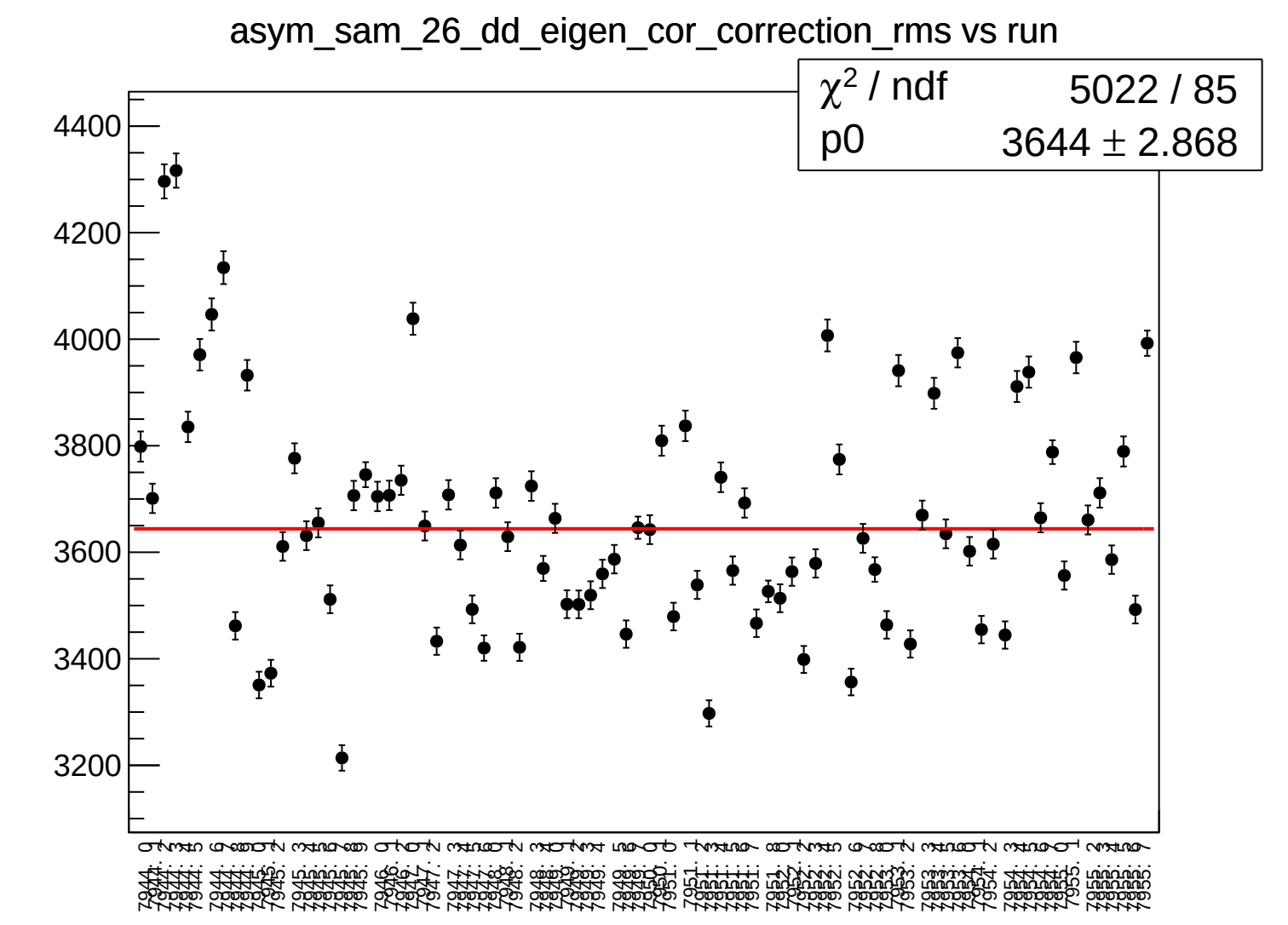

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 80.59 / 85
p0 −91.74 ± 192.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −1126
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

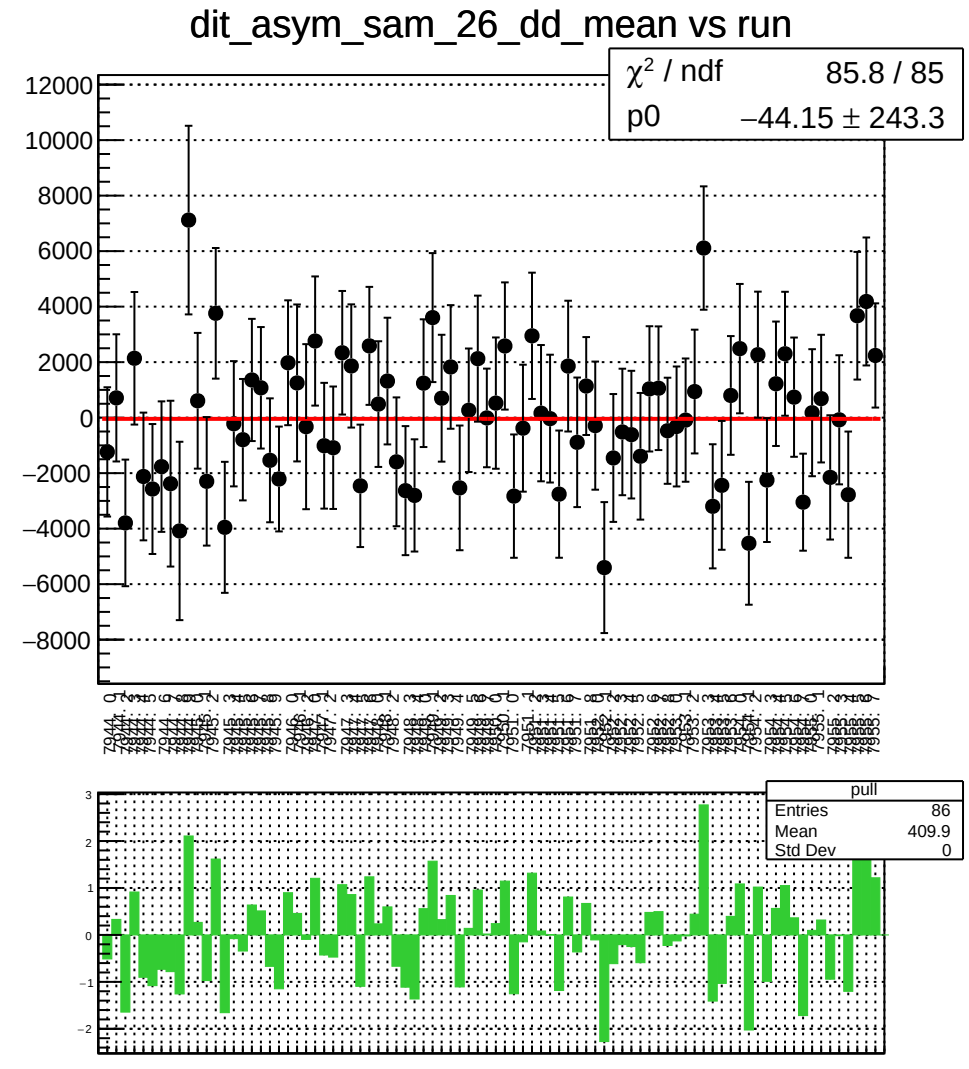

pull1D
Entries 86
Mean −0.002679
Std Dev 0.968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

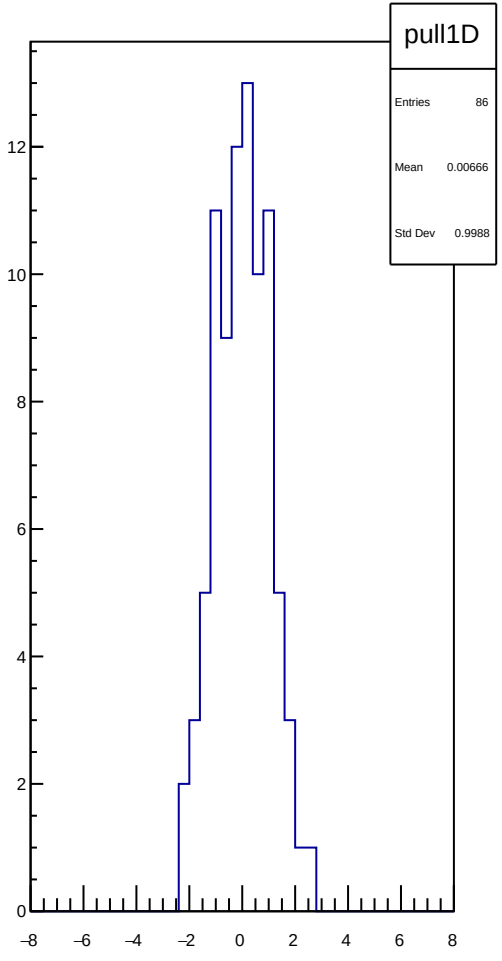

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1.164e+04 / 85
p0 172.2 ± 0.1358
300
280
260
240
220
200
180
160

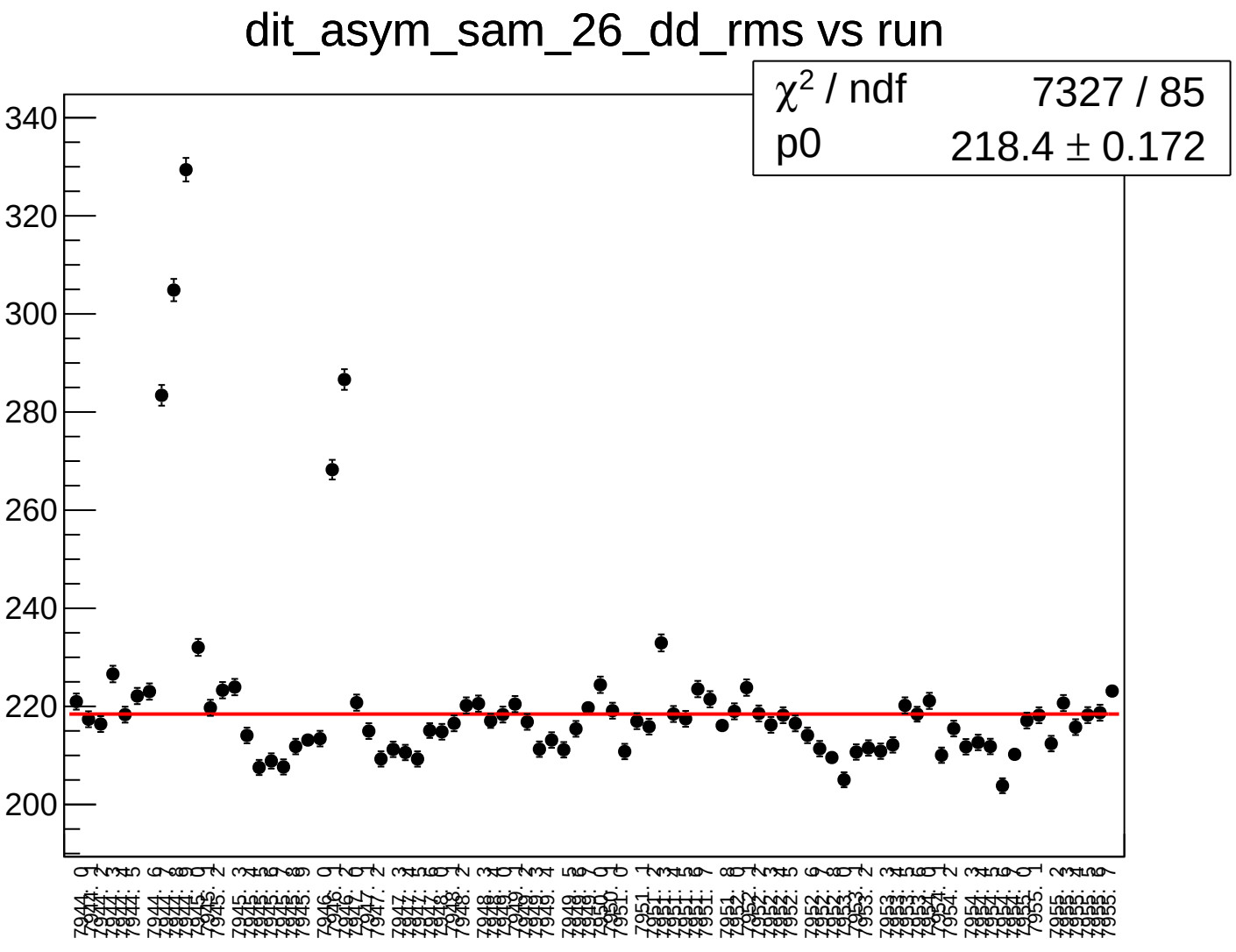

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.03 / 85
p0 1403 ± 4056
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 338.1
Std Dev 0
2
1
0
−1
−2

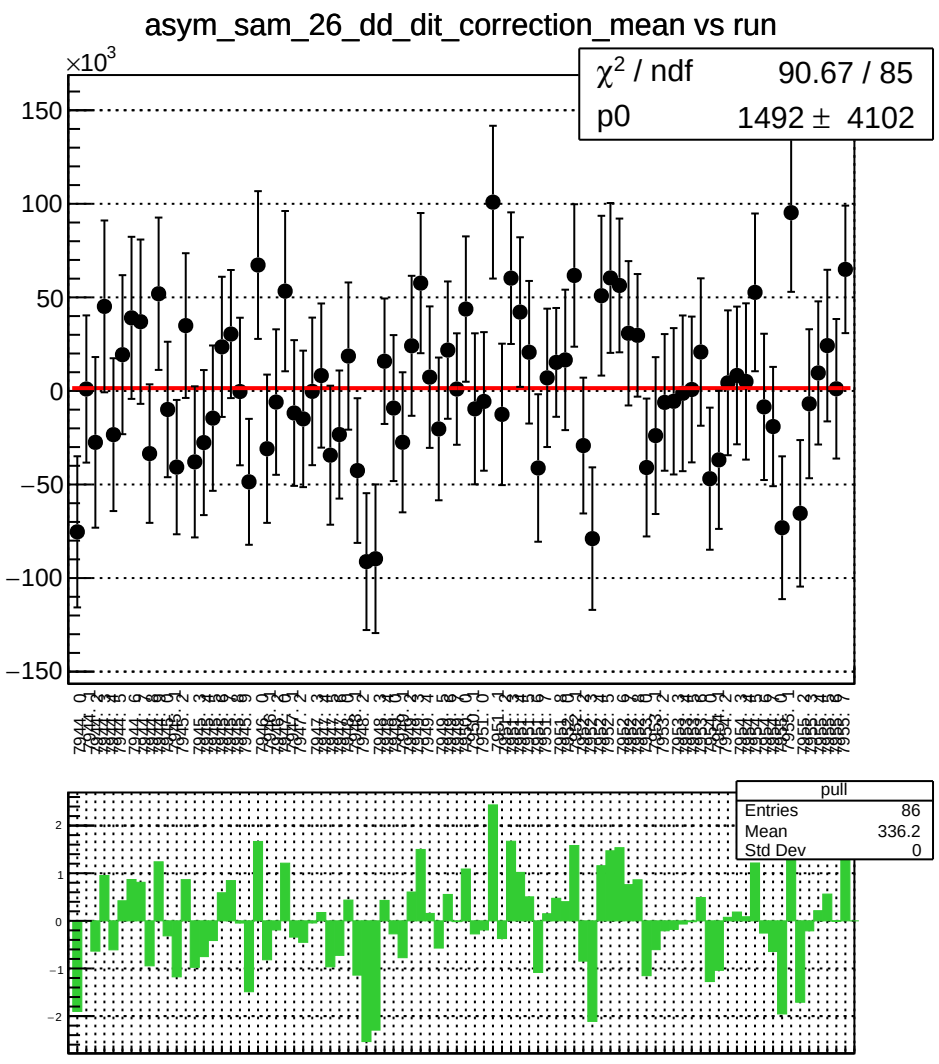

pull1D
Entries 86
Mean 0.008411
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

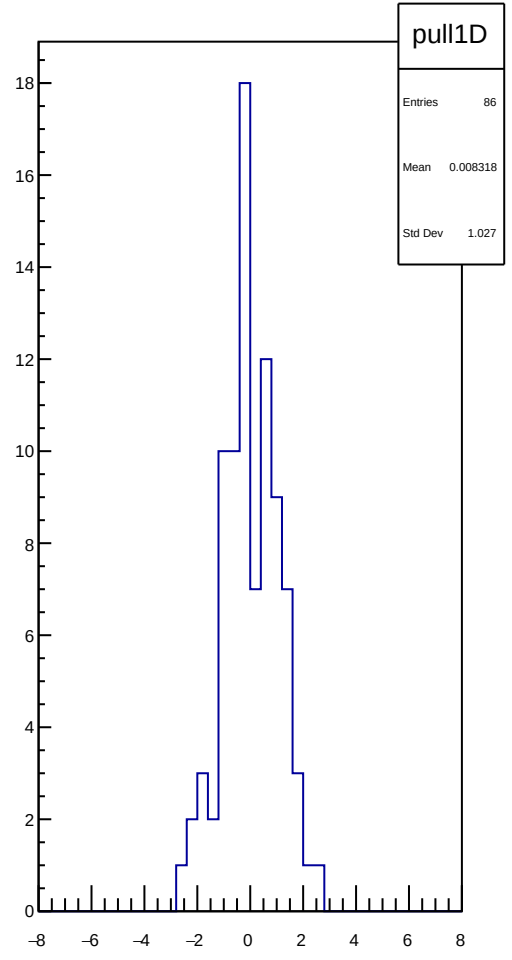

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5022 / 85
p0 3644 ± 2.868
4400
4200
4000
3800
3600
3400
3200

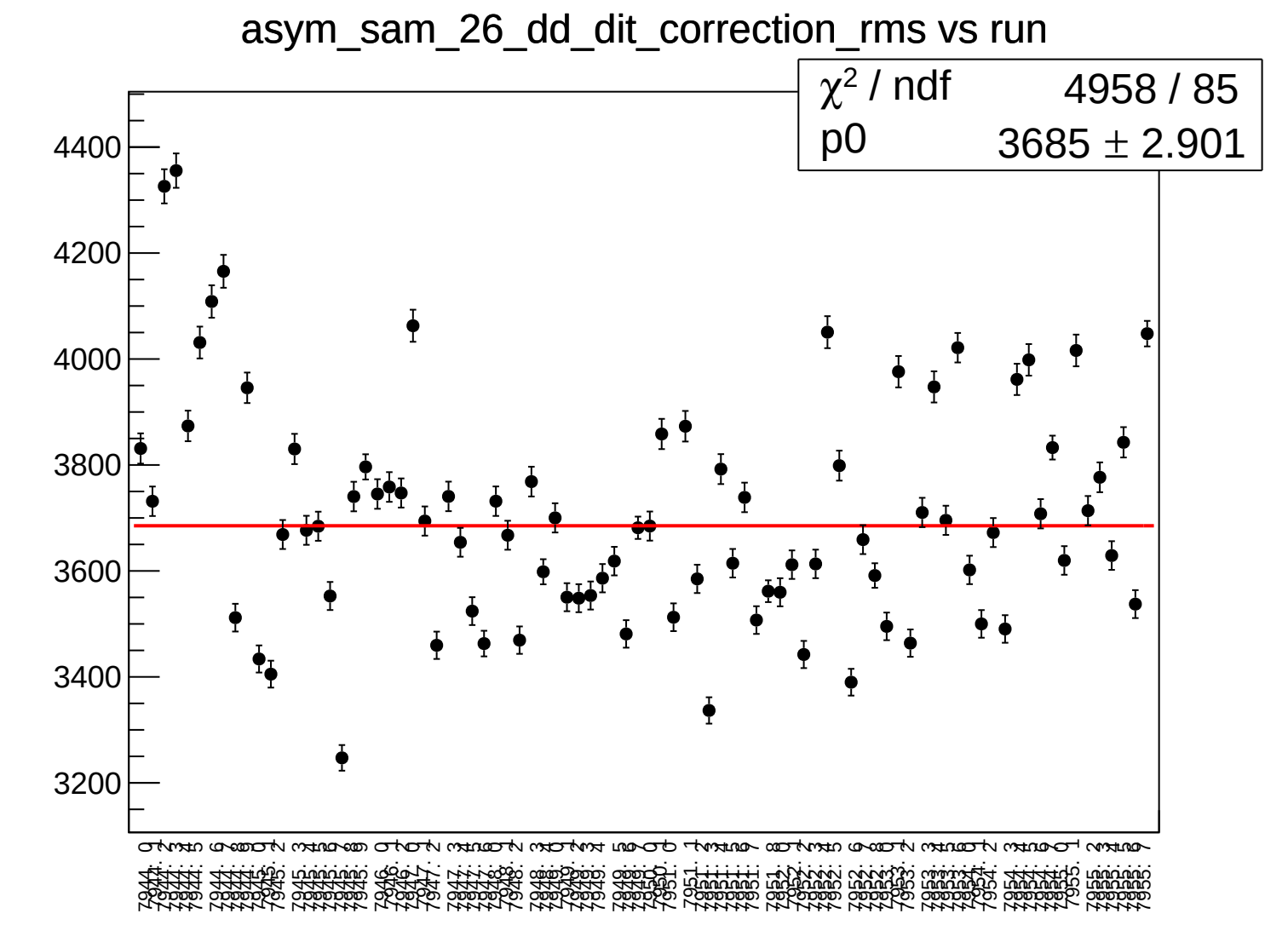

dit_asym_sam_26_dd_mean vs run
χ² / ndf 85.8 / 85
p0 −44.15 ± 243.3
pull
Entries 86
Mean 409.9
Std Dev 0

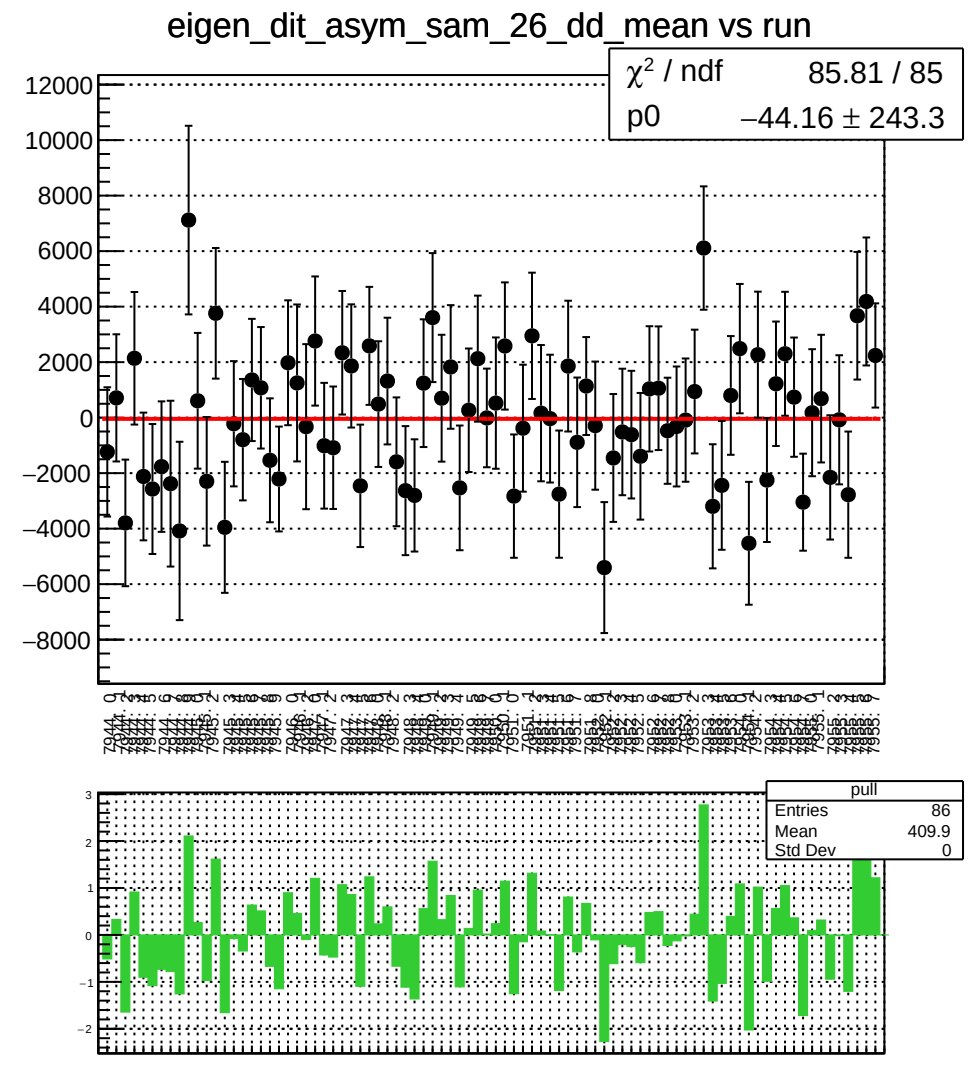

pull1D
Entries 86
Mean 0.00666
Std Dev 0.9988

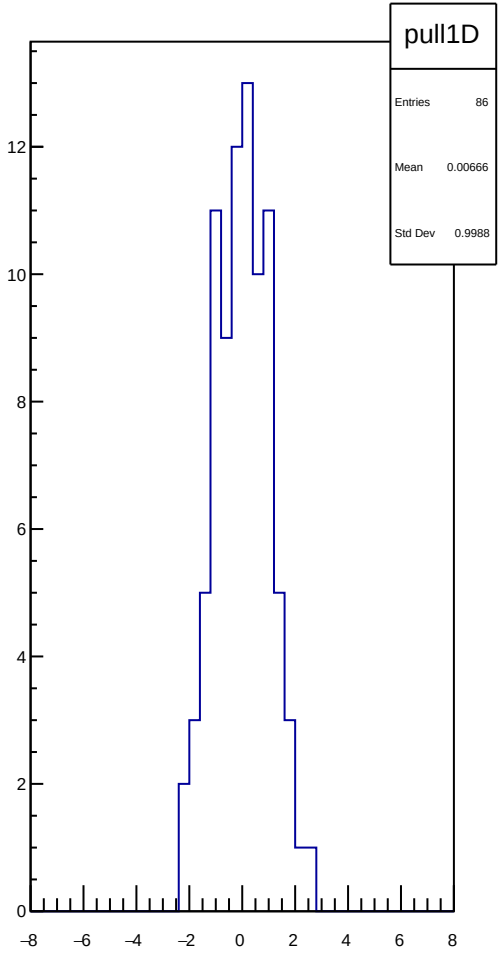

dit_asym_sam_26_dd_rms vs run
χ² / ndf 7327 / 85
p0 218.4 ± 0.172
340
320
300
280
260
240
220
200

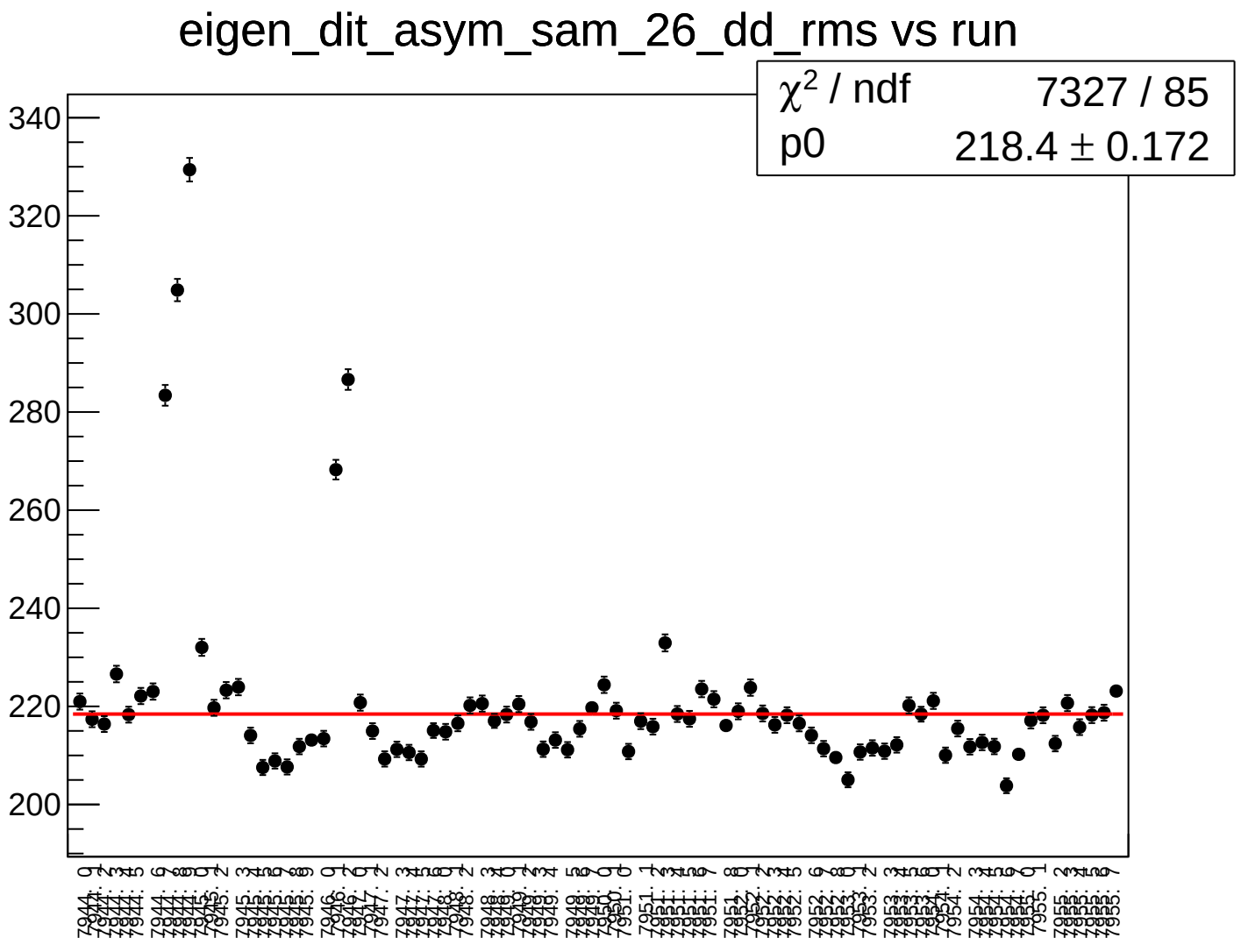

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 90.67 / 85
p0 1492 ± 4102
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 336.2
Std Dev 0
2
1
0
−1
−2

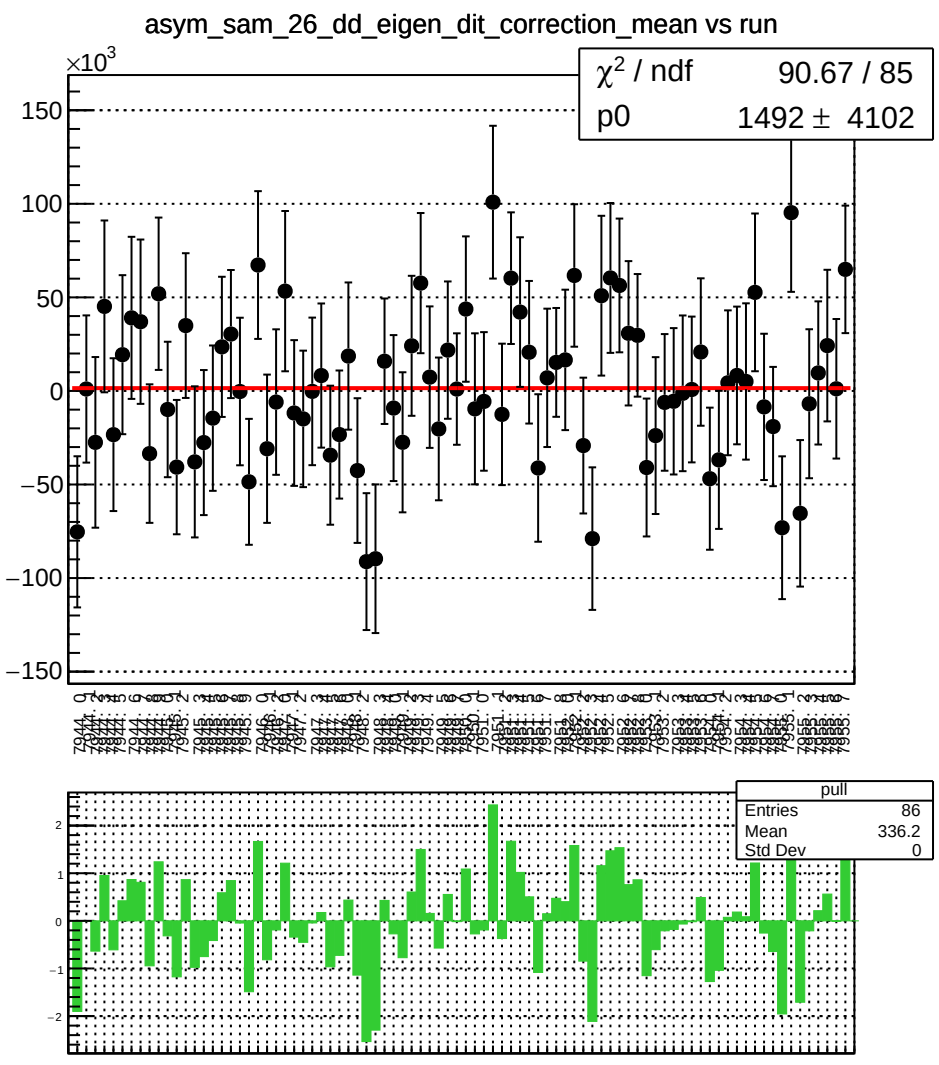

pull1D
Entries 86
Mean 0.008318
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

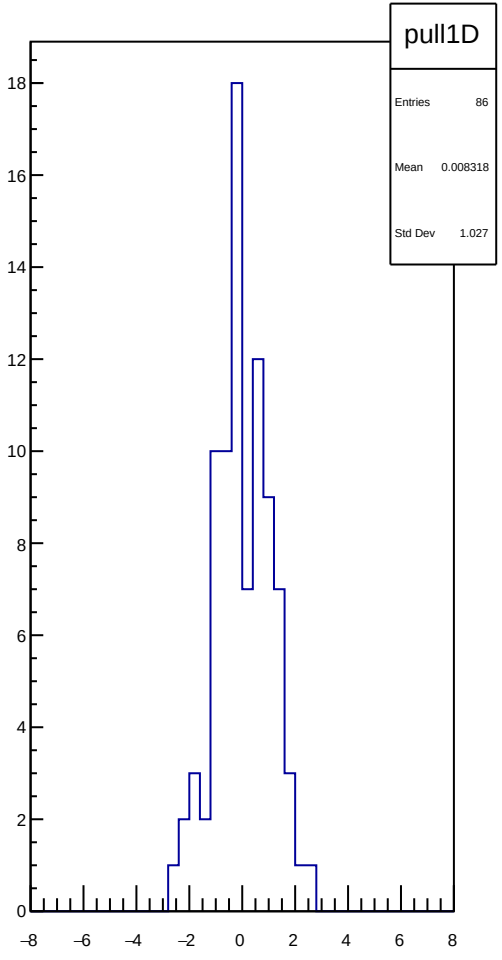

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 4958 / 85
p0 3685 ± 2.901
4400
4200
4000
3800
3600
3400
3200

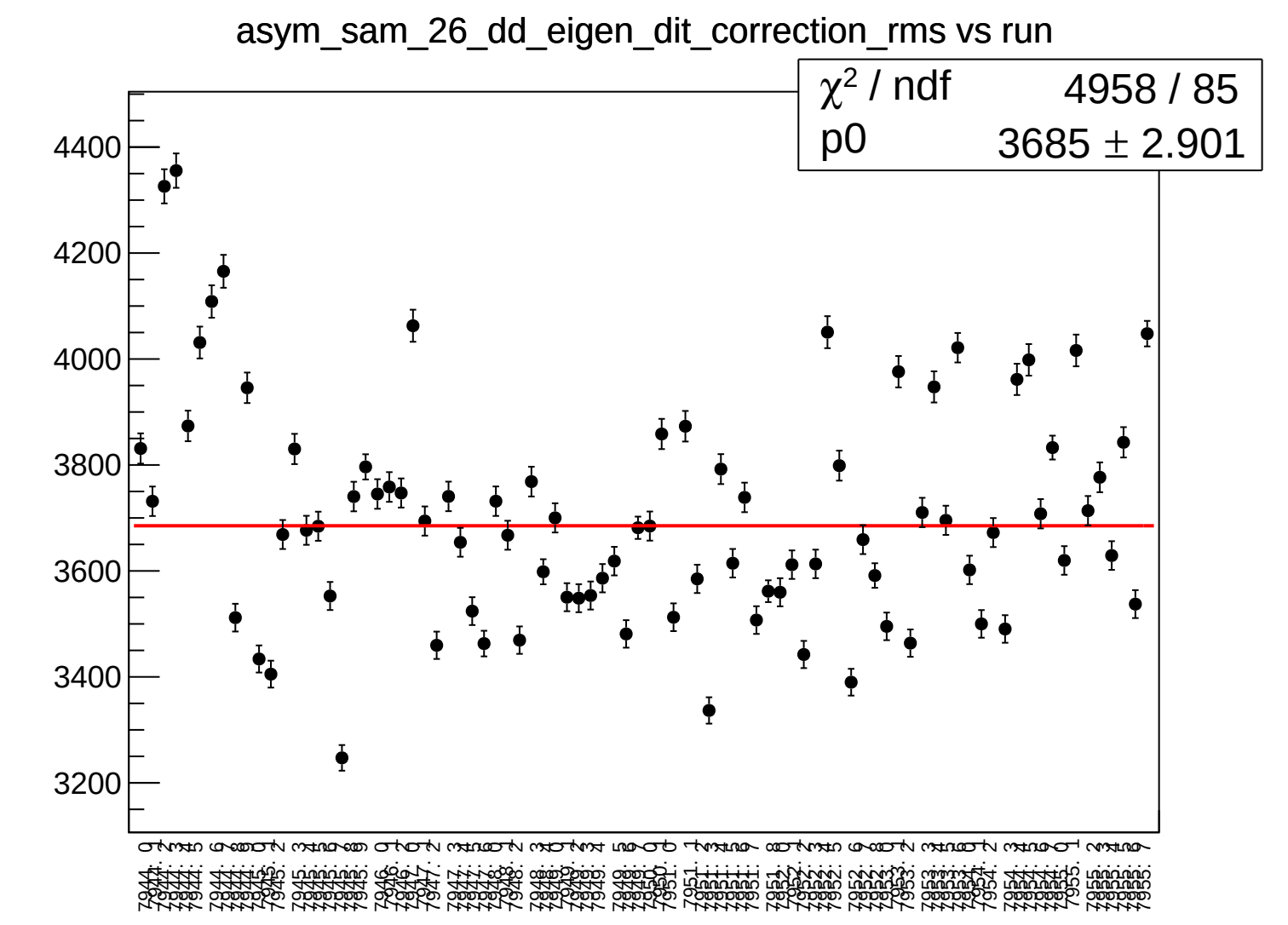

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 85.81 / 85
p0 −44.16 ± 243.3
pull
Entries 86
Mean 409.9
Std Dev 0

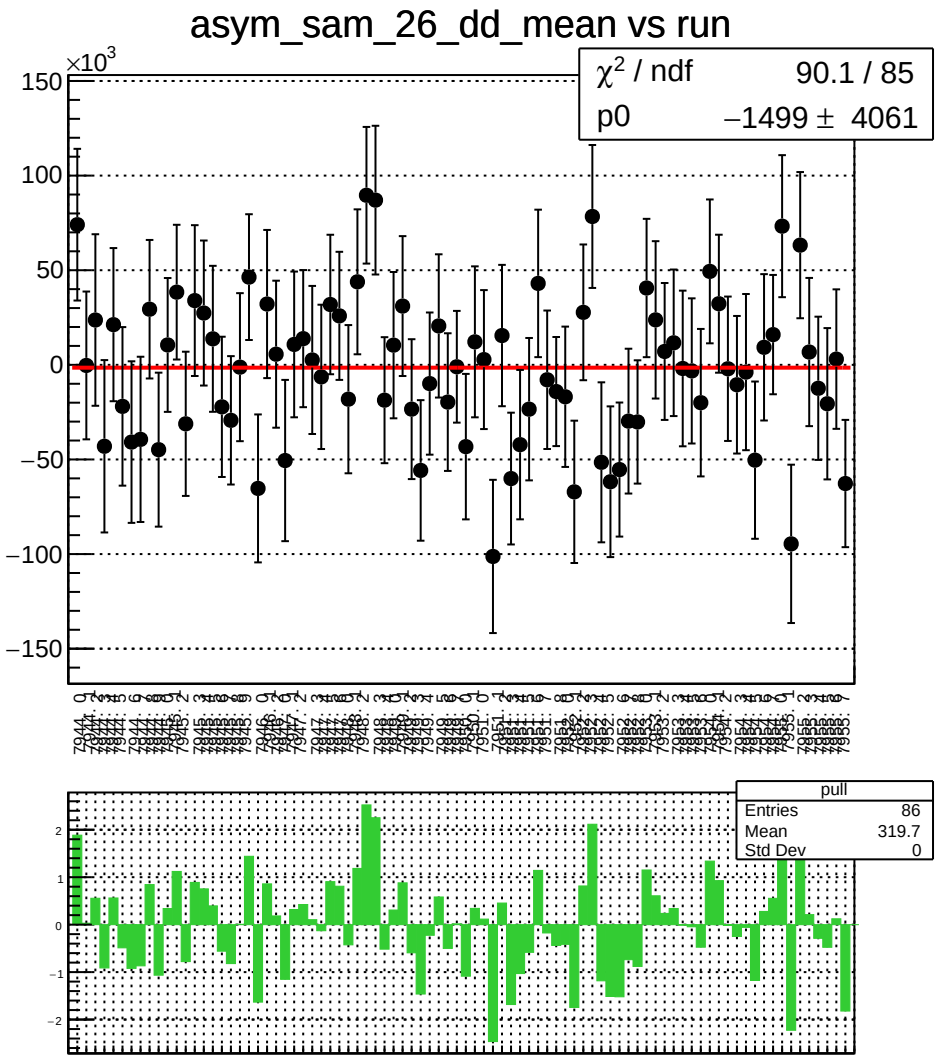

pull1D
Entries 86
Mean 0.00666
Std Dev 0.9988

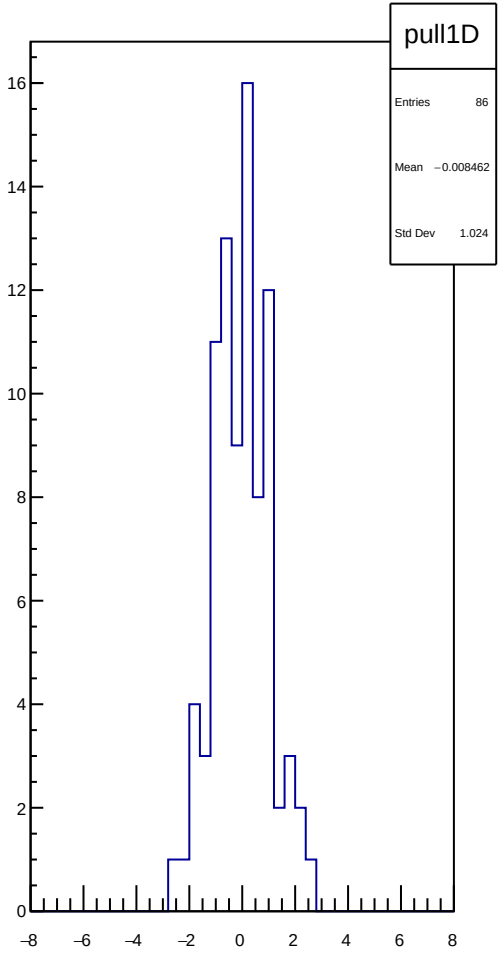

eigen_dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 7327 / 85
p0 218.4 ± 0.172
340
320
300
280
260
240
220
200

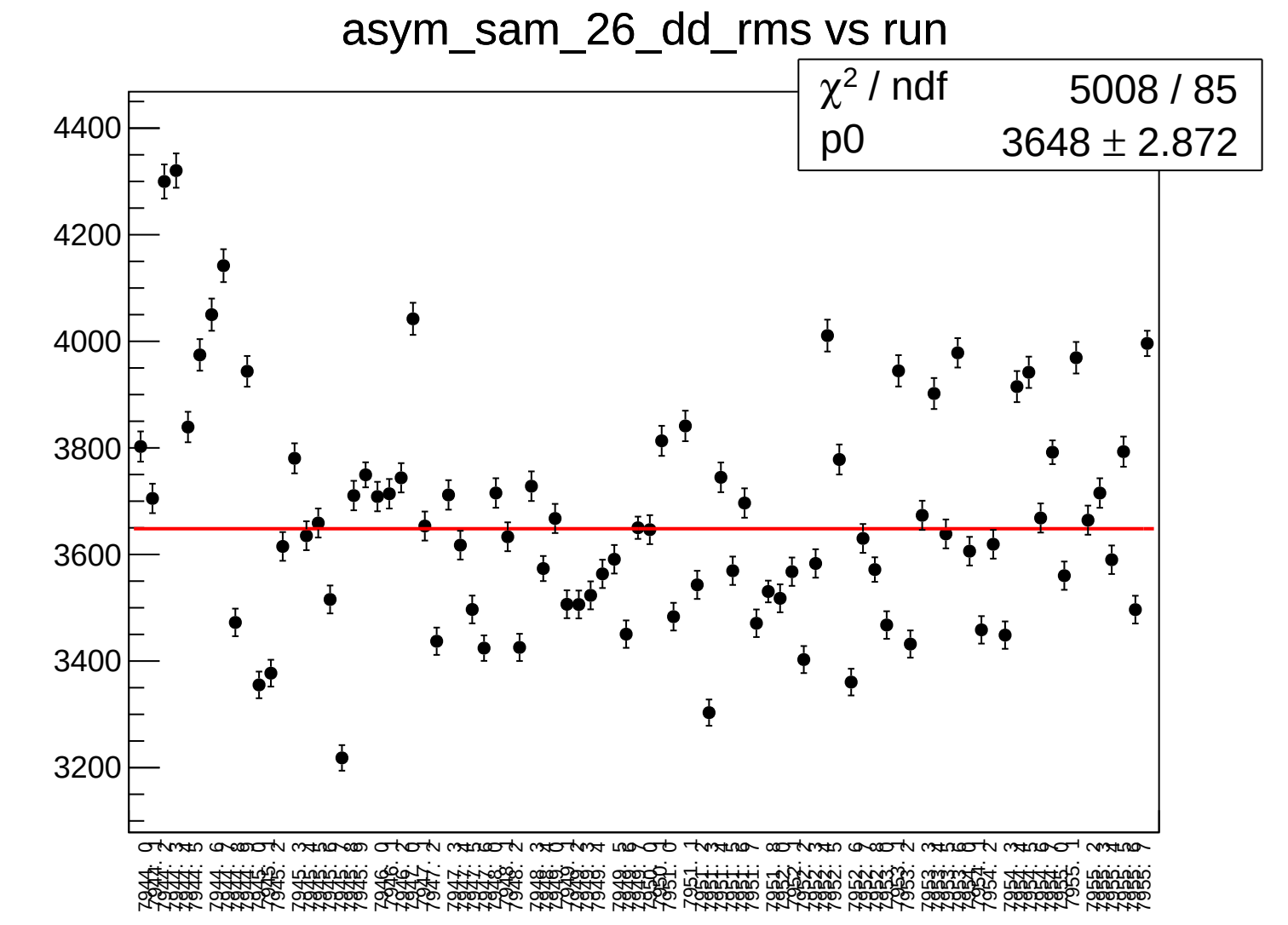

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.67 / 85
p0 1492 ± 4102
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 336.2
Std Dev 0
2
1
0
−1
−2

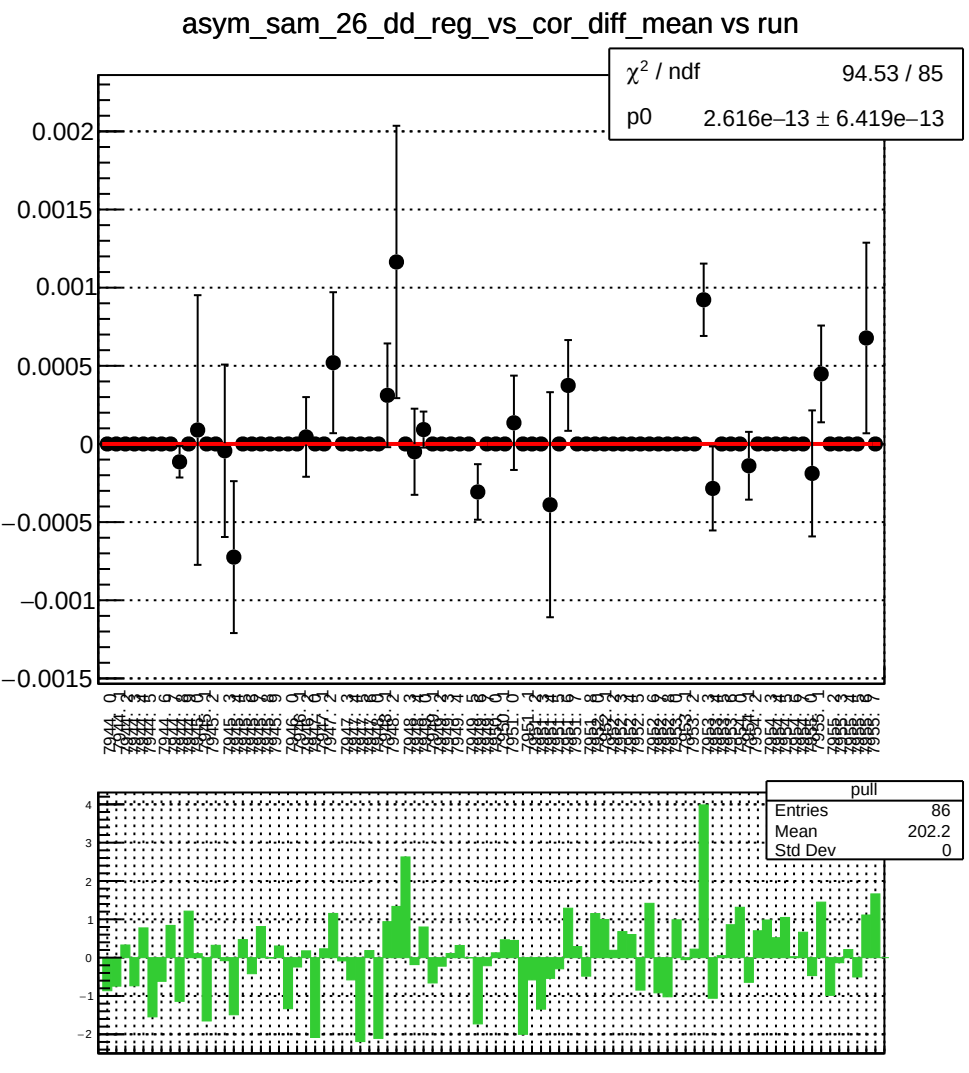

pull1D
Entries 86
Mean 0.008318
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

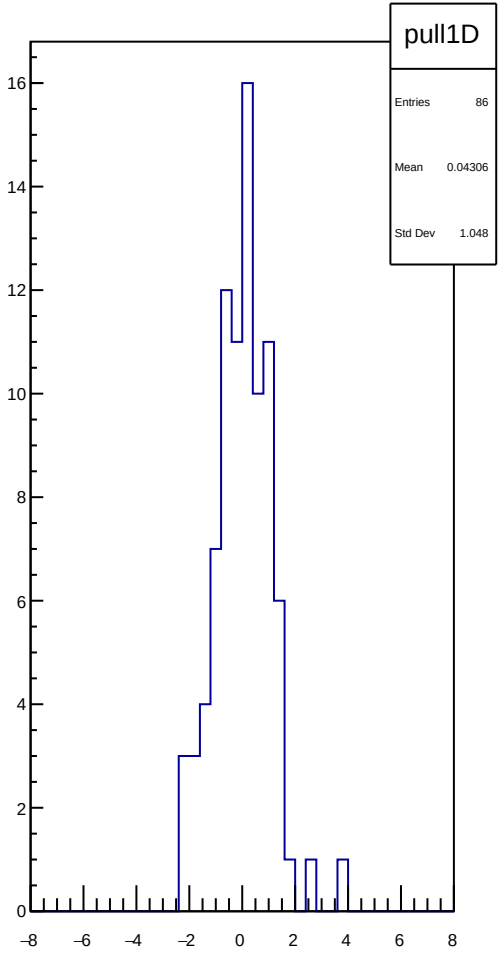

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4958 / 85
p0 3685 ± 2.901
4400
4200
4000
3800
3600
3400
3200

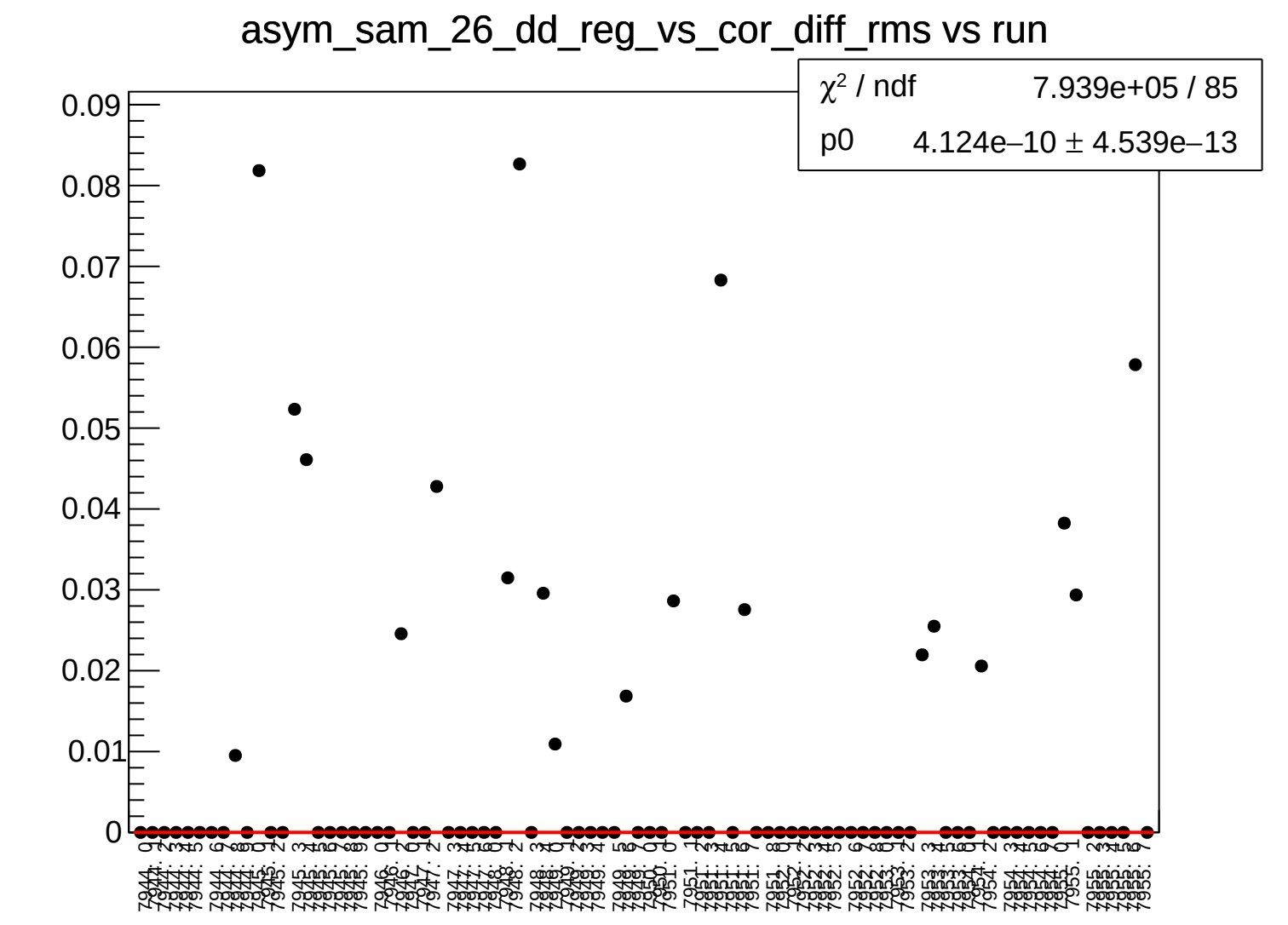

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 90.1 / 85
p0 −1499 ± 4061
pull
Entries 86
Mean 319.7
Std Dev 0

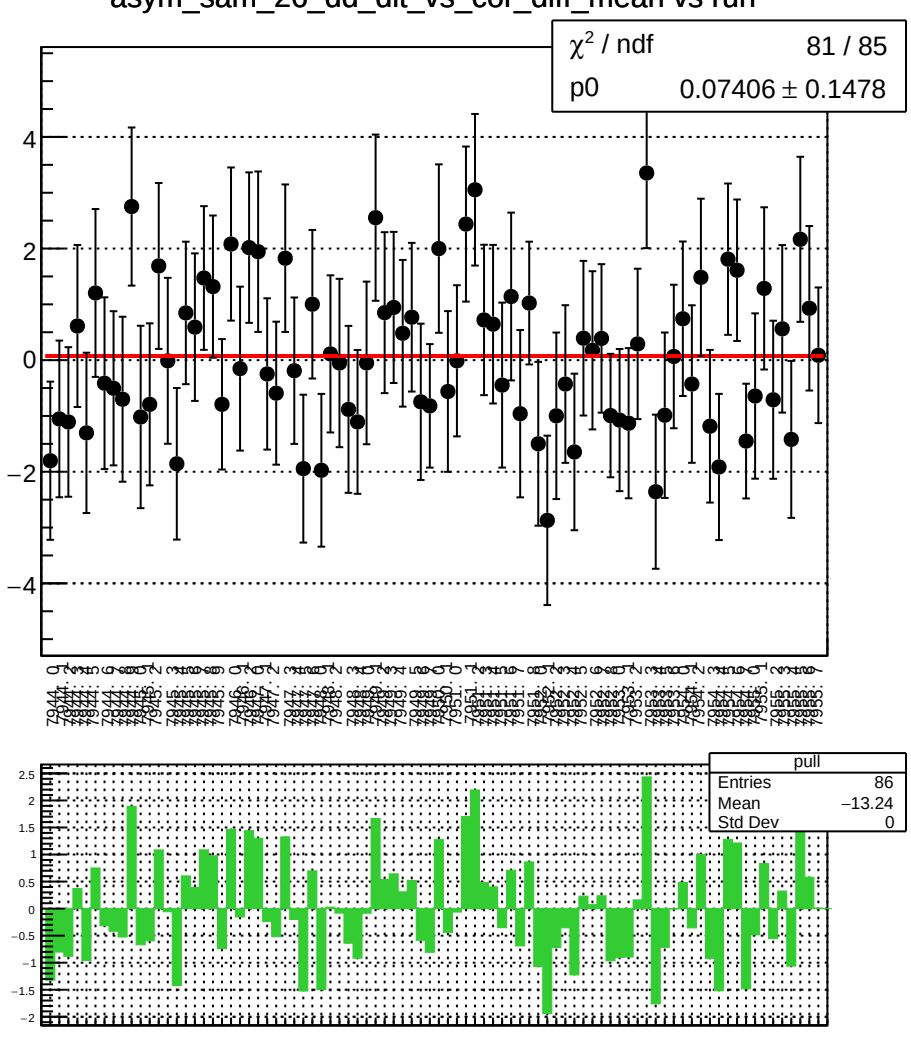

pull1D
Entries 86
Mean −0.008462
Std Dev 1.024

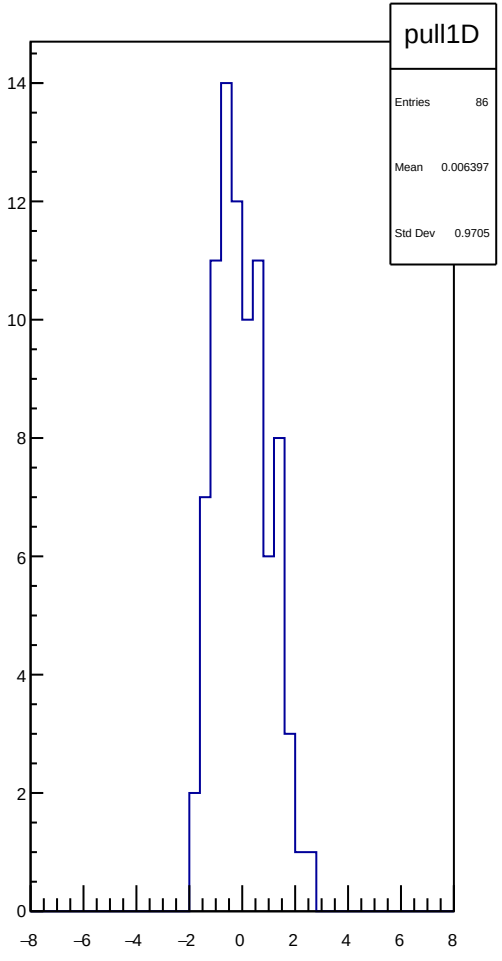

asym_sam_26_dd_rms vs run
χ^2 / ndf 5008 / 85
p0 3648 ± 2.872
4400
4200
4000
3800
3600
3400
3200

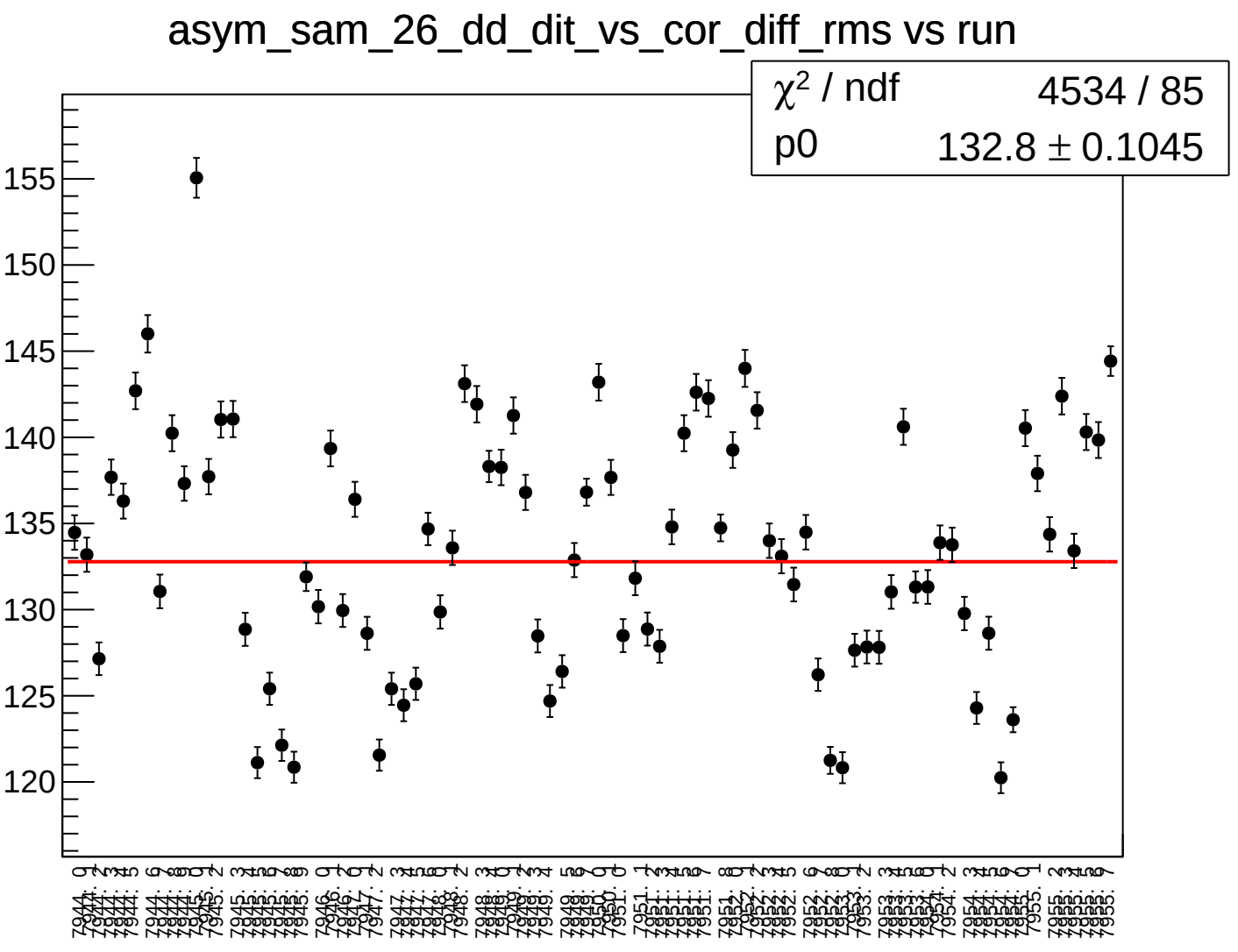

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.53 / 85
p0 2.616e−13 ± 6.419e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean 202.2
Std Dev 0
4
3
2
1
0
−1
−2

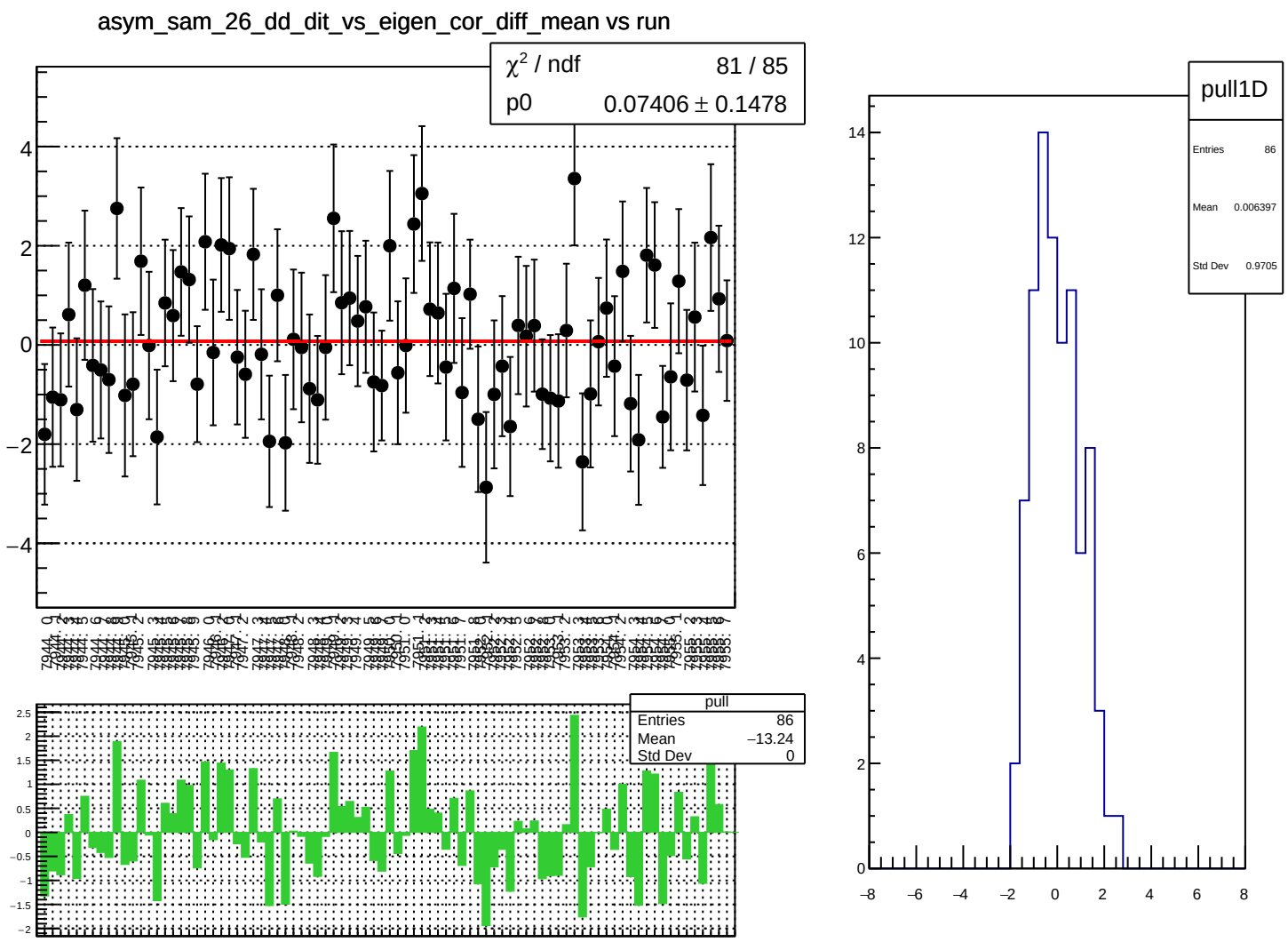

pull1D
Entries 86
Mean 0.04306
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

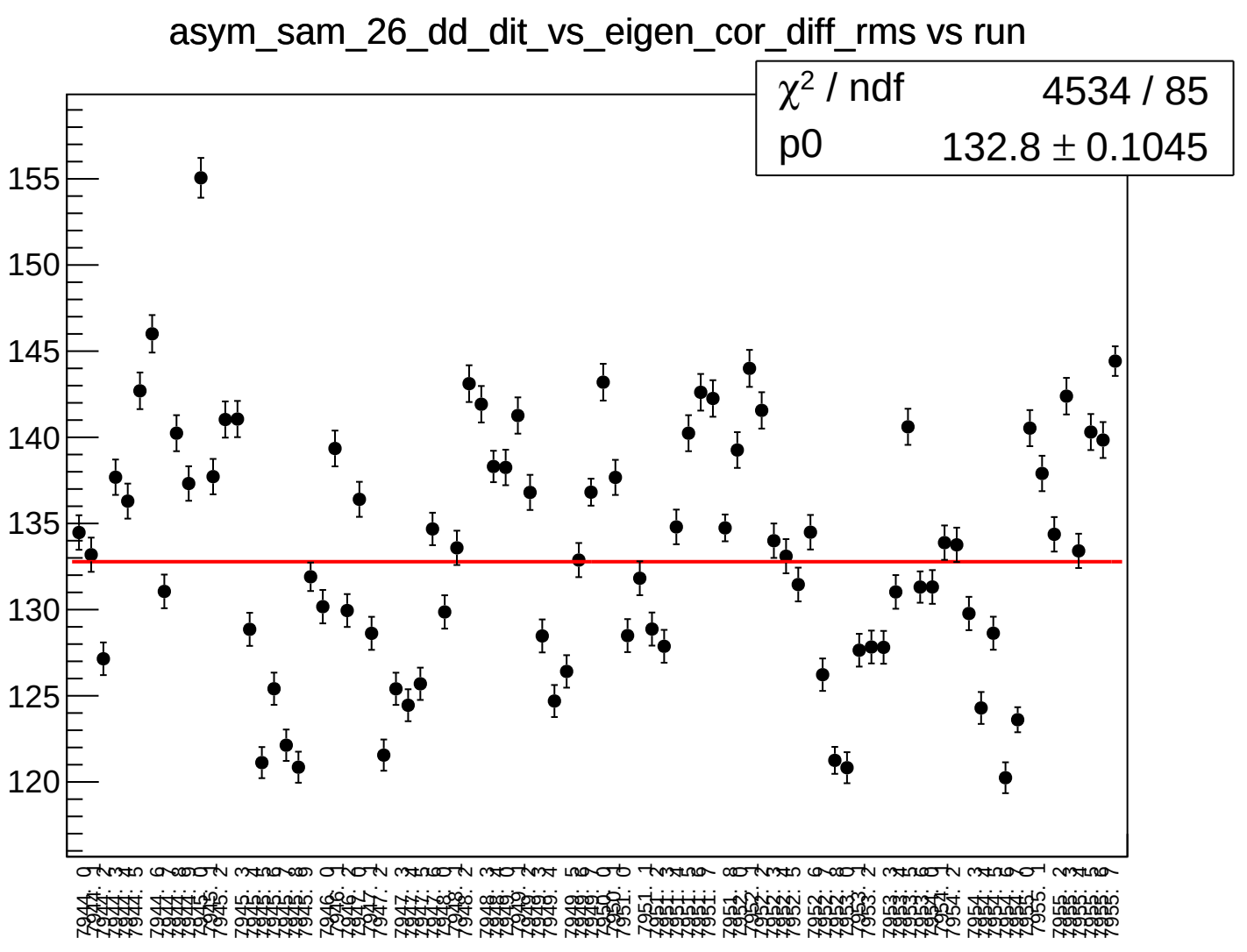

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.939e+05 / 85
p0 4.124e−10 ± 4.539e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

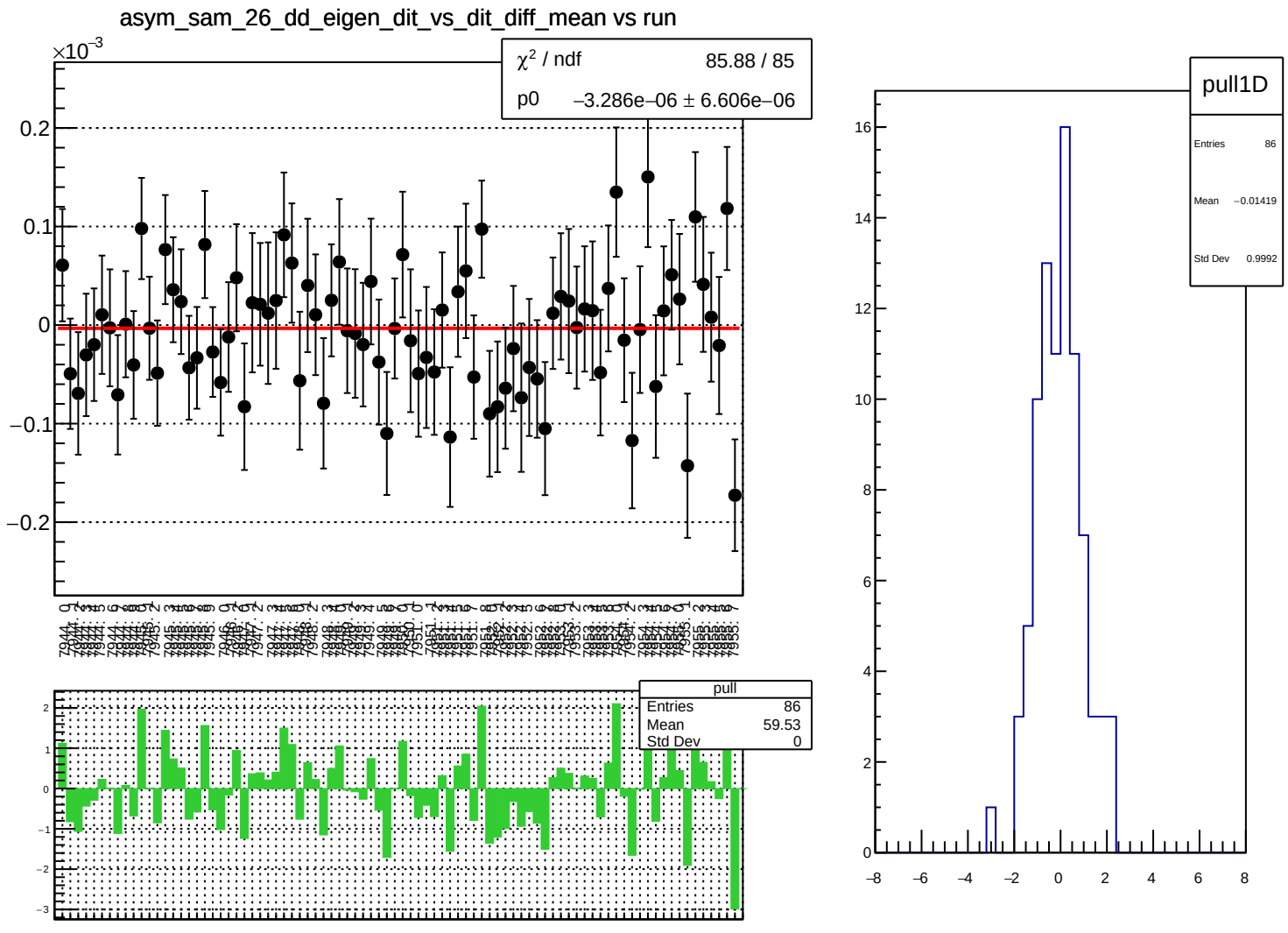

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81 / 85
p0 0.07406 ± 0.1478
pull
Entries 86
Mean −13.24
Std Dev 0

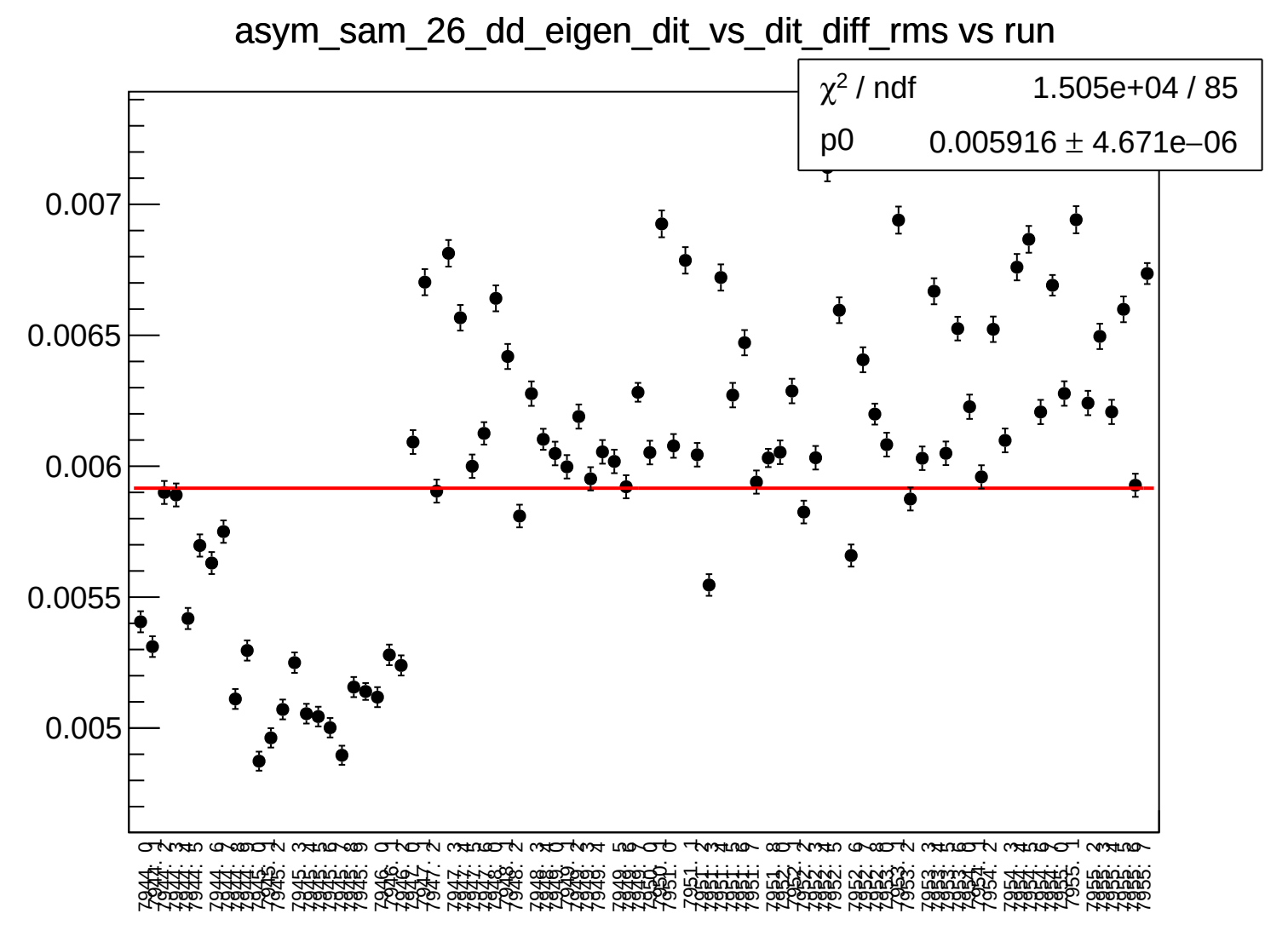

pull1D
Entries 86
Mean 0.006397
Std Dev 0.9705

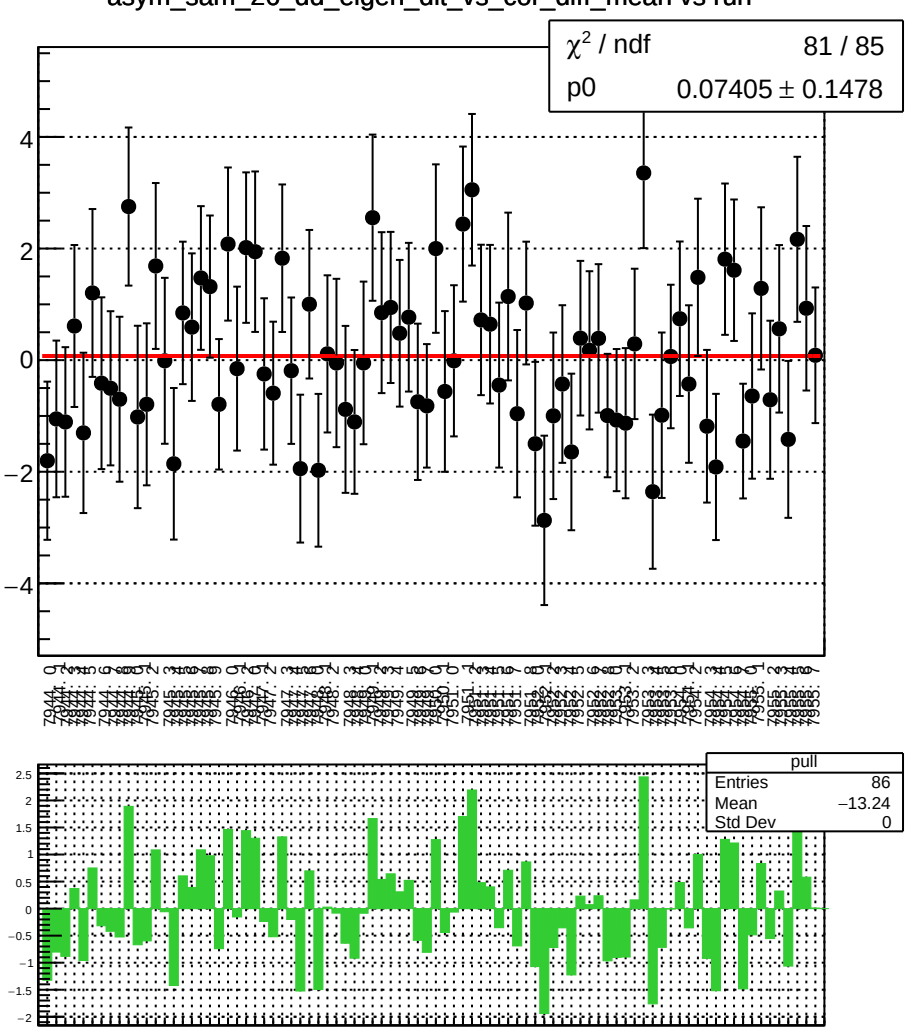

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4534 / 85
p0 132.8 ± 0.1045
155
150
145
140
135
130
125
120

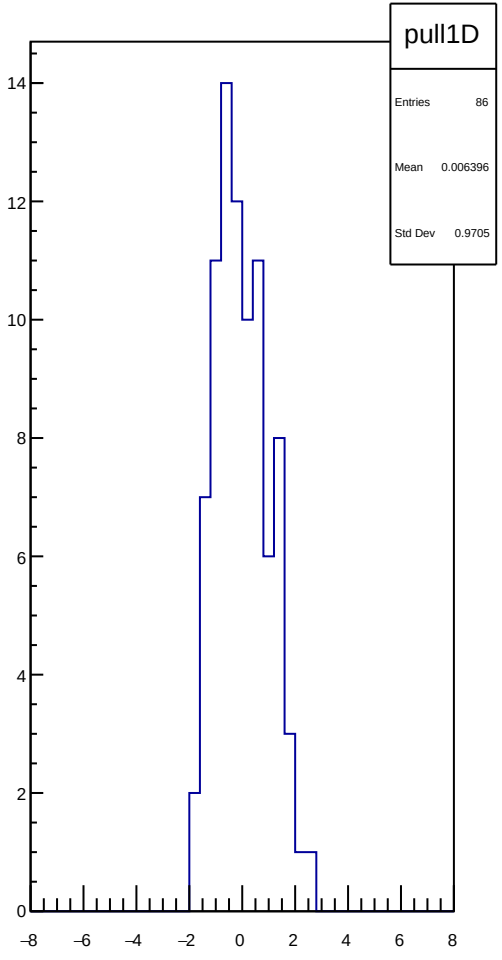

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81 / 85
p0 0.07406 ± 0.1478
pull
Entries 86
Mean −13.24
Std Dev 0
pull1D
Entries 86
Mean 0.006397
Std Dev 0.9705

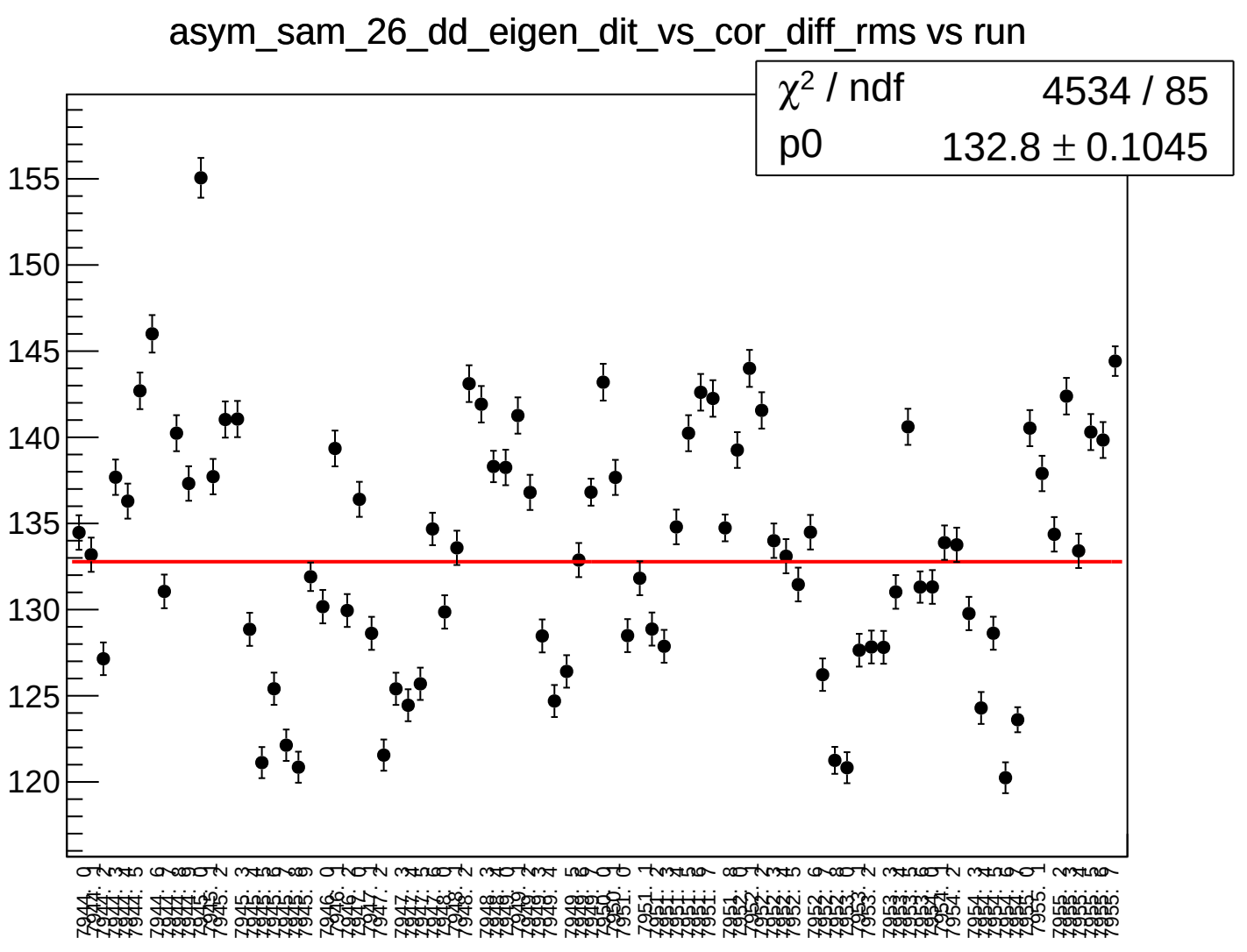

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4534 / 85
p0 132.8 ± 0.1045
155
150
145
140
135
130
125
120

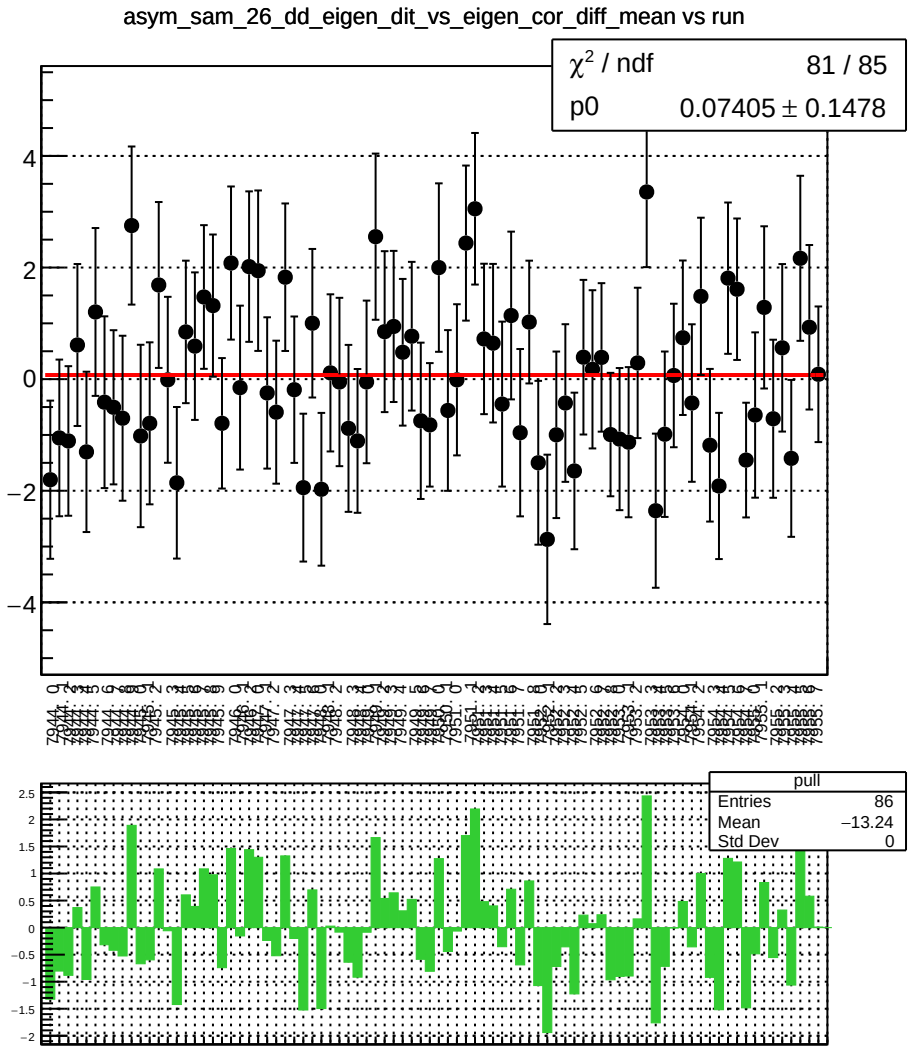

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.88 / 85
p0 −3.286e−06 ± 6.606e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean 59.53
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01419
Std Dev 0.9992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

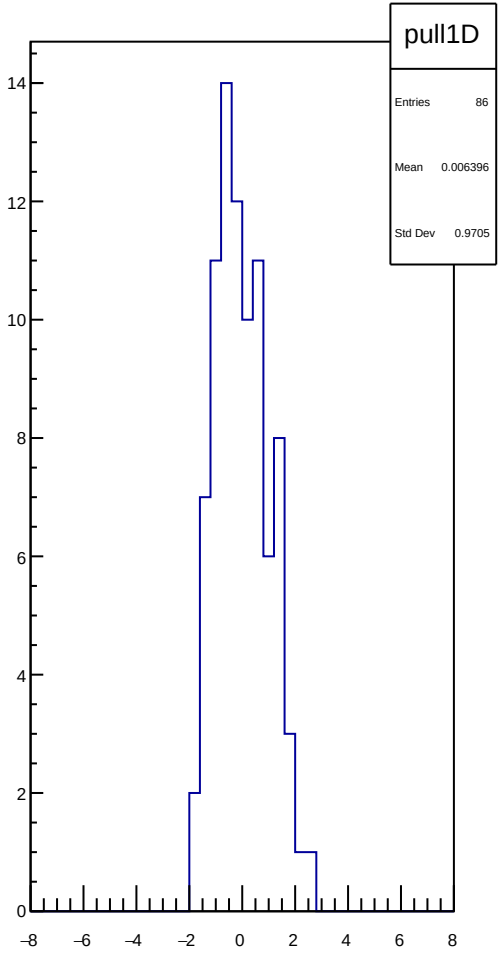

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.505e+04 / 85
p0 0.005916 ± 4.671e−06
0.007
0.0065
0.006
0.0055
0.005

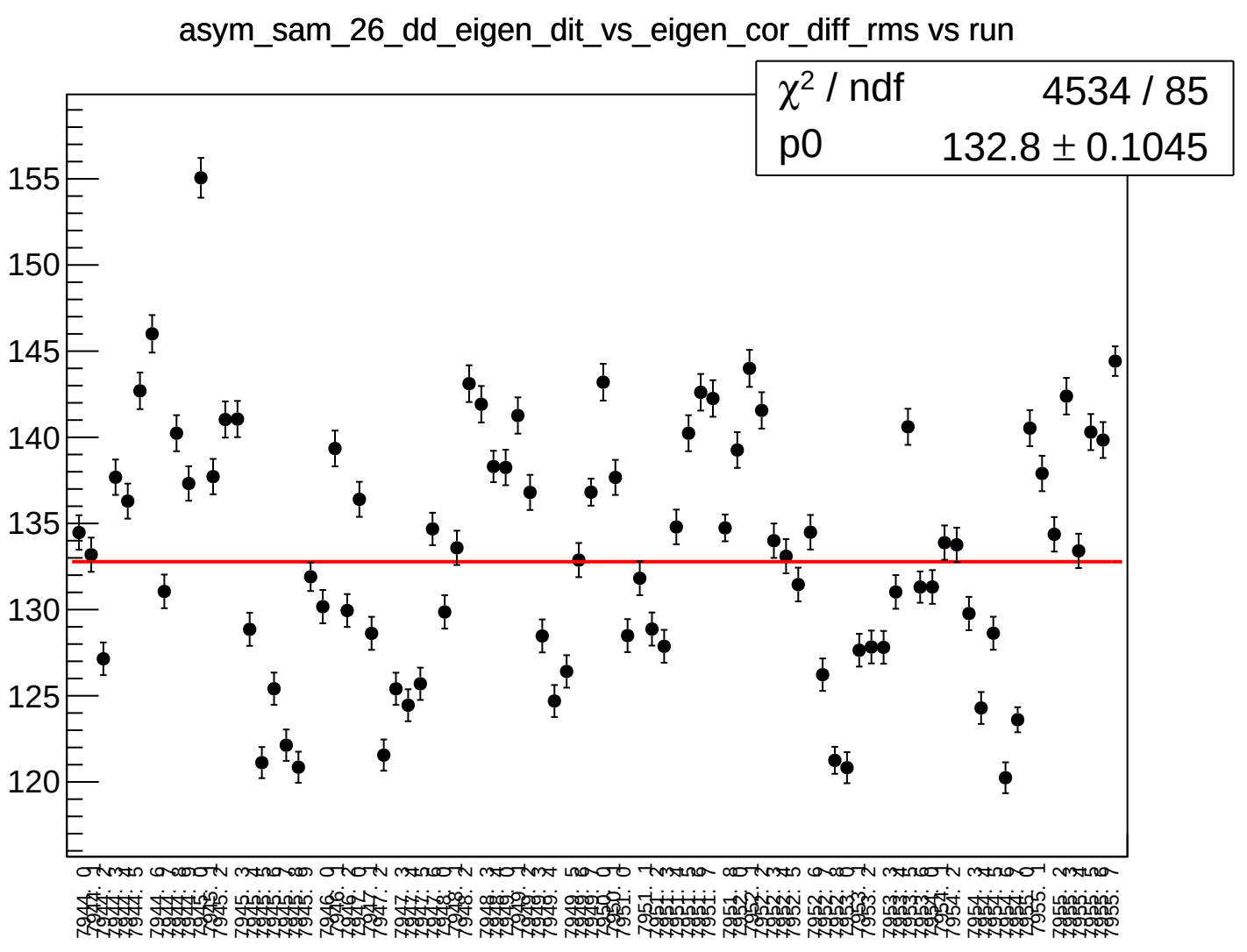

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81 / 85
p0 0.07405 ± 0.1478
pull
Entries 86
Mean −13.24
Std Dev 0

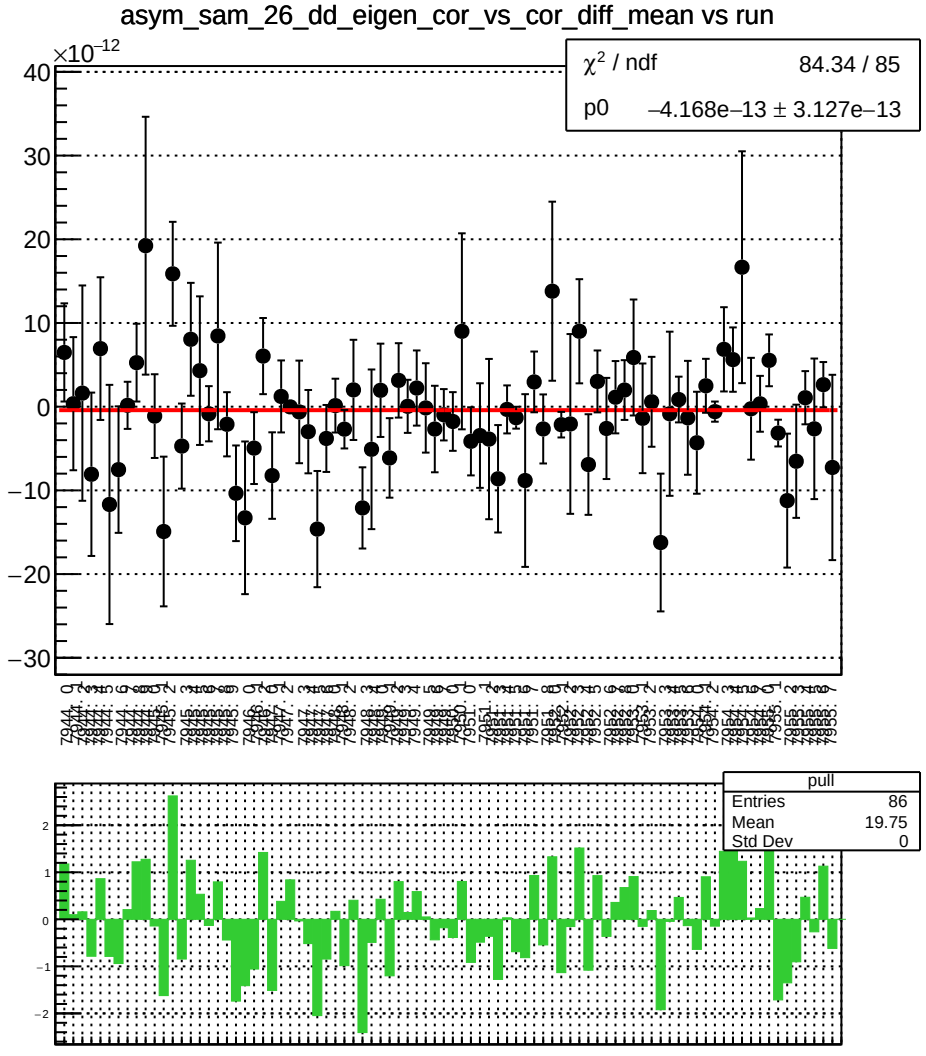

pull1D
Entries 86
Mean 0.006396
Std Dev 0.9705

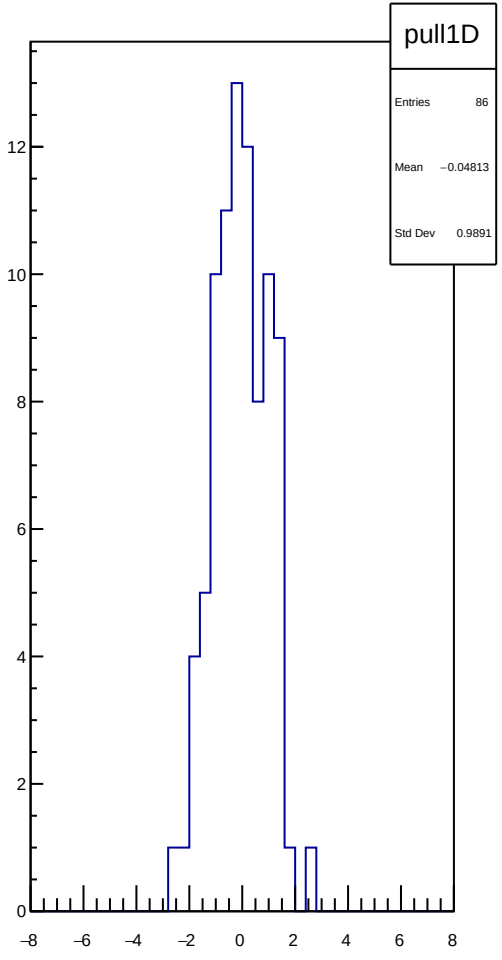

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4534 / 85
p0 132.8 ± 0.1045
155
150
145
140
135
130
125
120

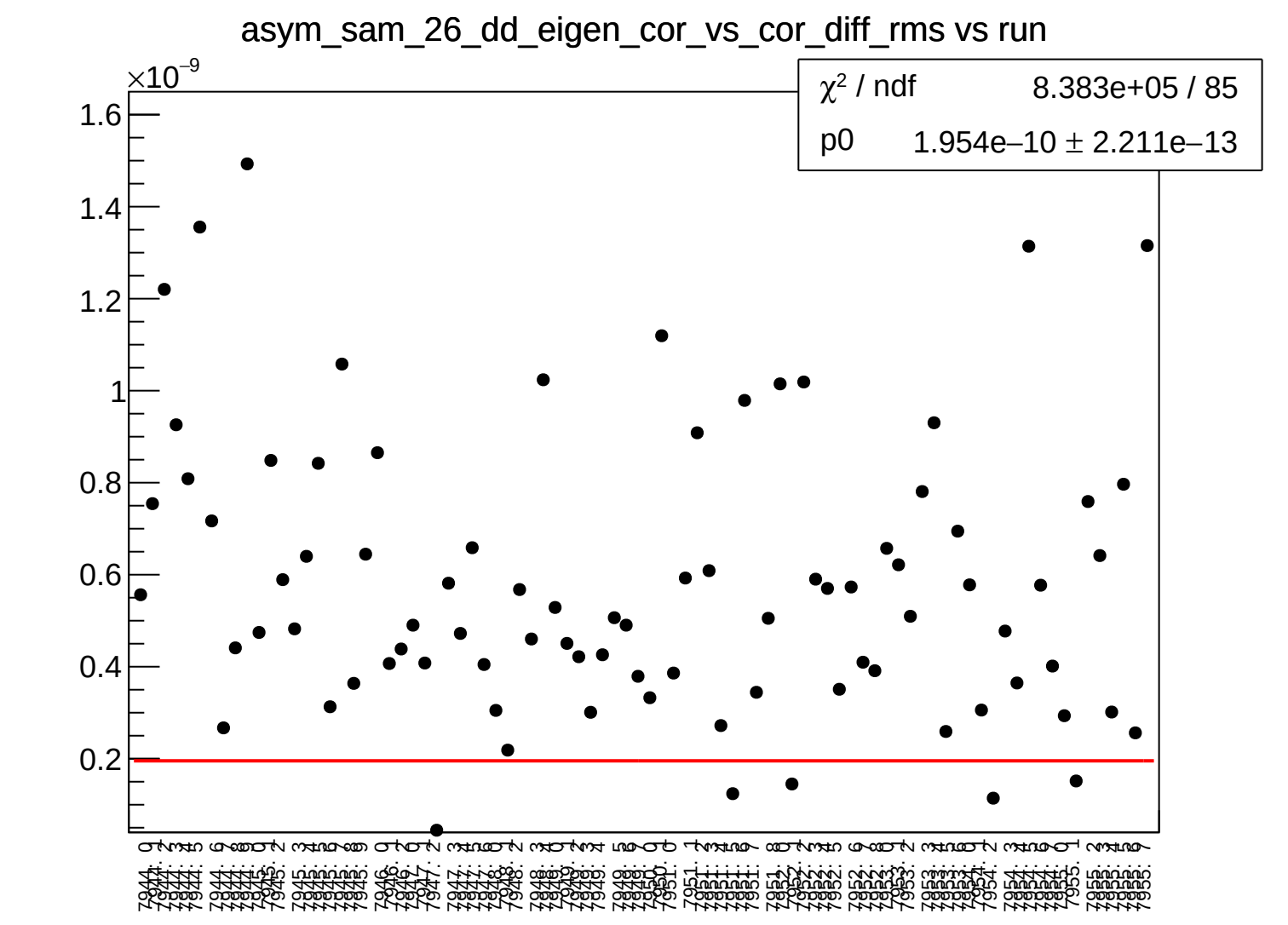

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81 / 85
p0 0.07405 ± 0.1478
pull
Entries 86
Mean −13.24
Std Dev 0

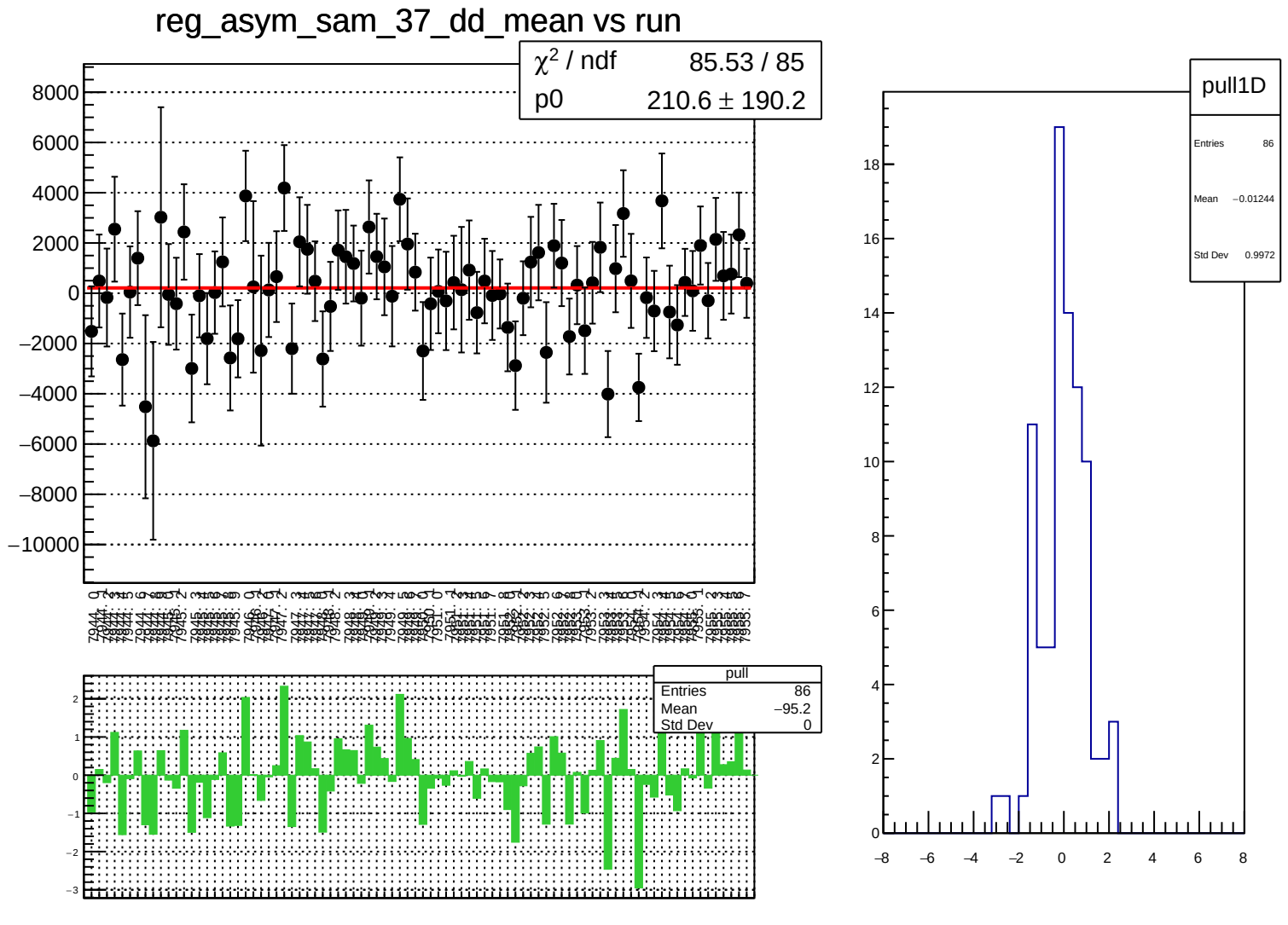

pull1D
Entries 86
Mean 0.006396
Std Dev 0.9705

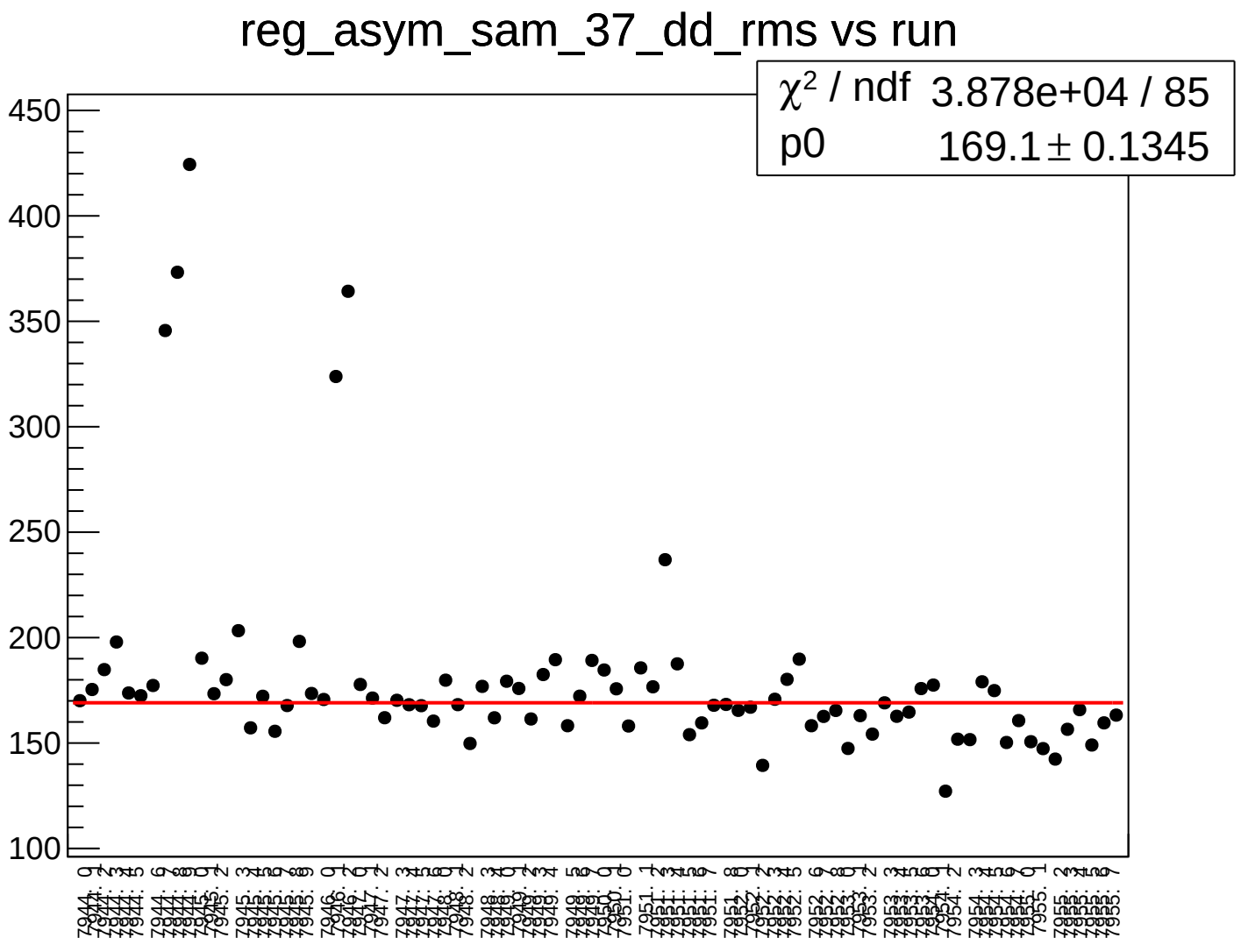

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4534 / 85
p0 132.8 ± 0.1045
155
150
145
140
135
130
125
120

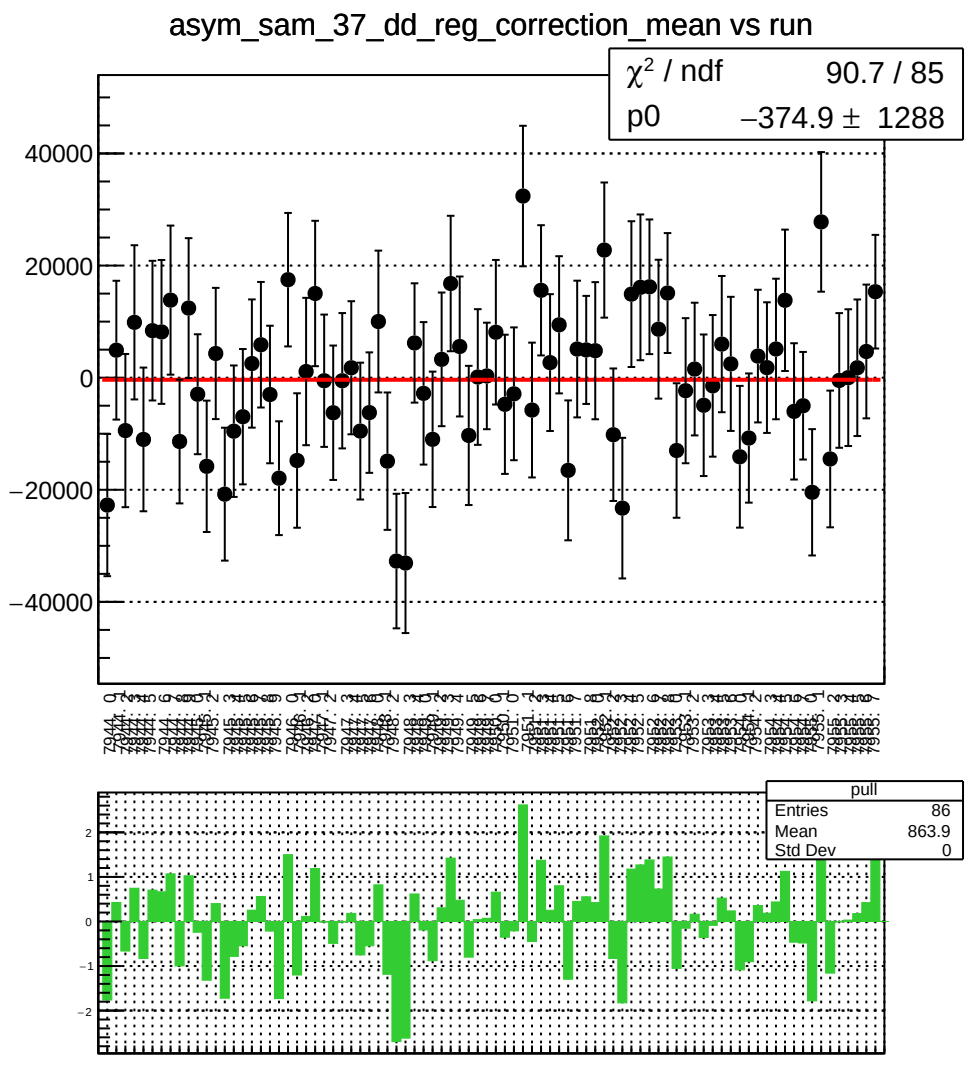

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.34 / 85
p0 −4.168e−13 ± 3.127e−13
pull
Entries 86
Mean 19.75
Std Dev 0

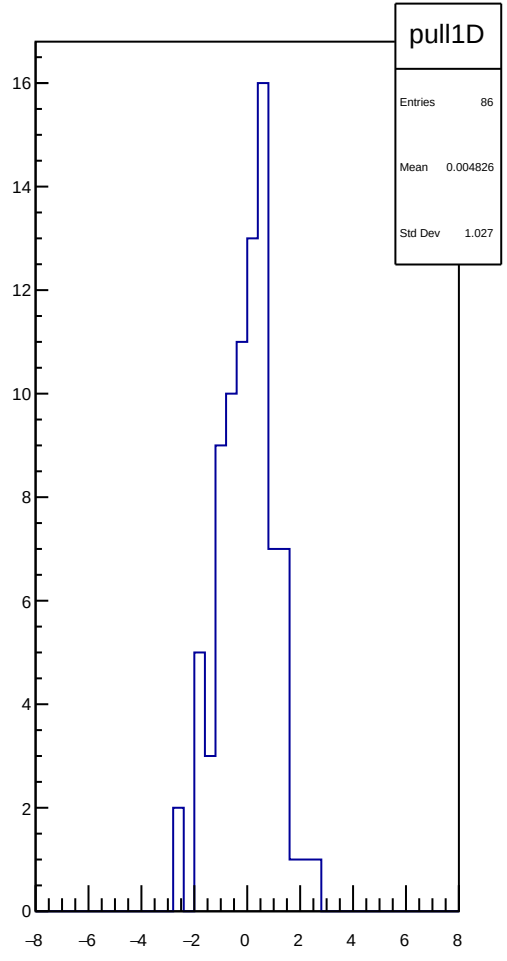

pull1D
Entries 86
Mean −0.04813
Std Dev 0.9891

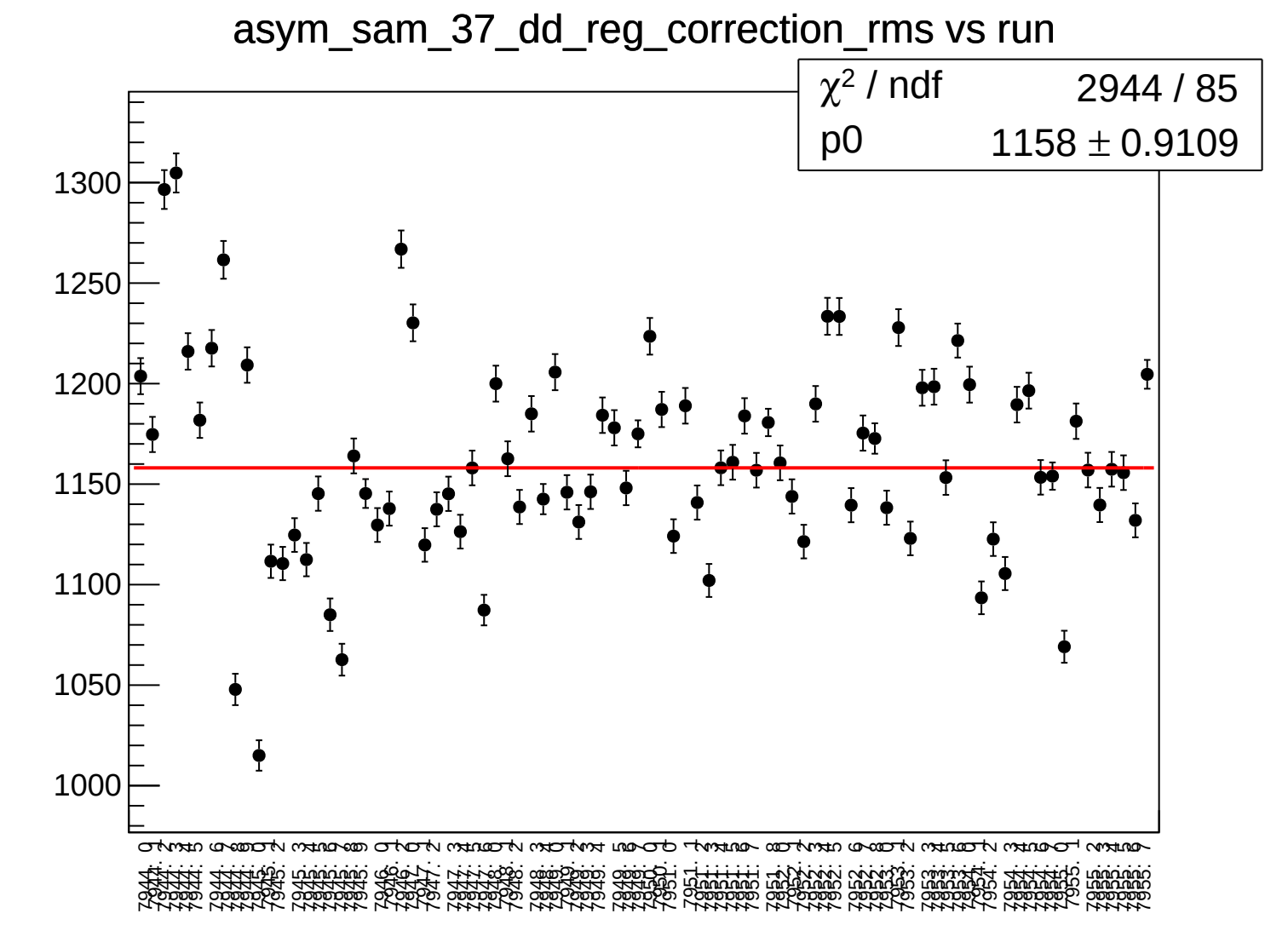

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.383e+05 / 85
p0 1.954e−10 ± 2.211e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

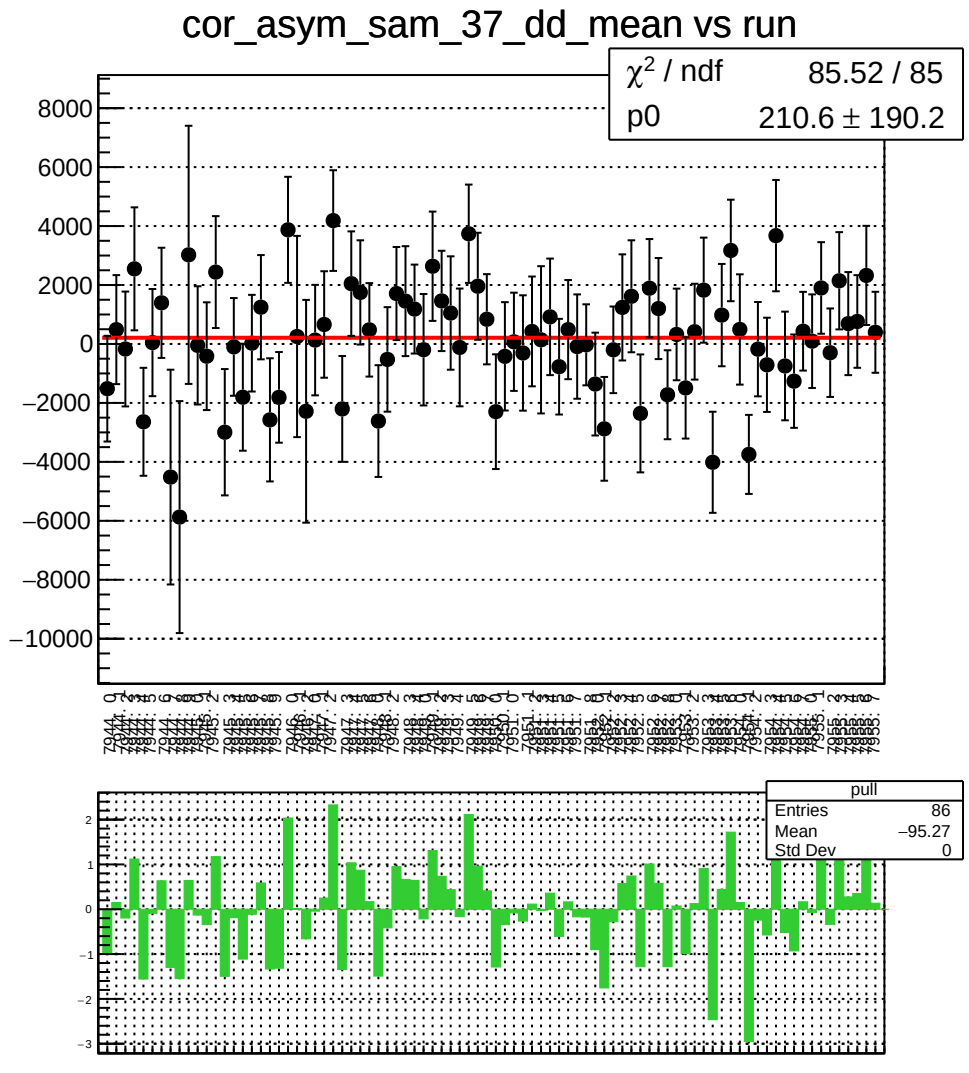

reg_asym_sam_37_dd_mean vs run
χ² / ndf 85.53 / 85
p0 210.6 ± 190.2
pull
Entries 86
Mean −95.2
Std Dev 0
pull1D
Entries 86
Mean −0.01244
Std Dev 0.9972

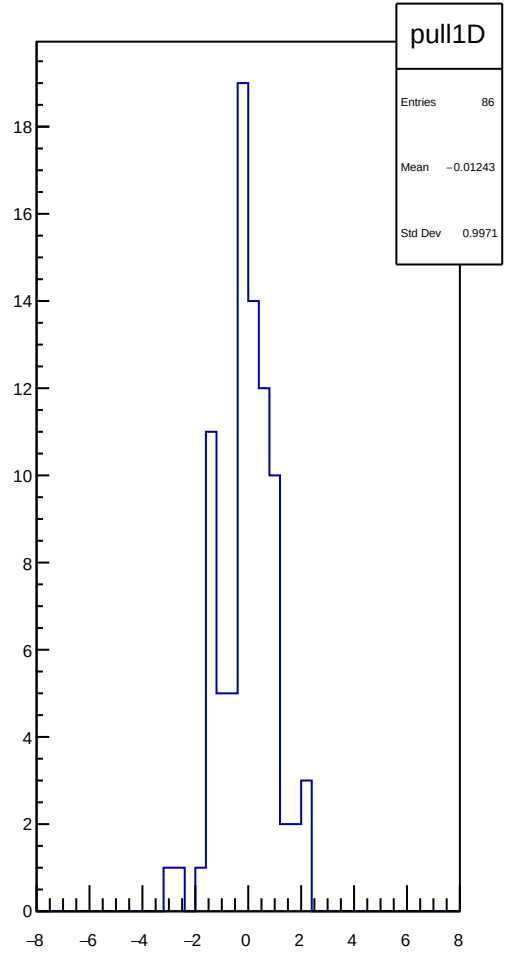

reg_asym_sam_37_dd_rms vs run
χ² / ndf 3.878e+04 / 85
p0 169.1 ± 0.1345
450
400
350
300
250
200
150
100

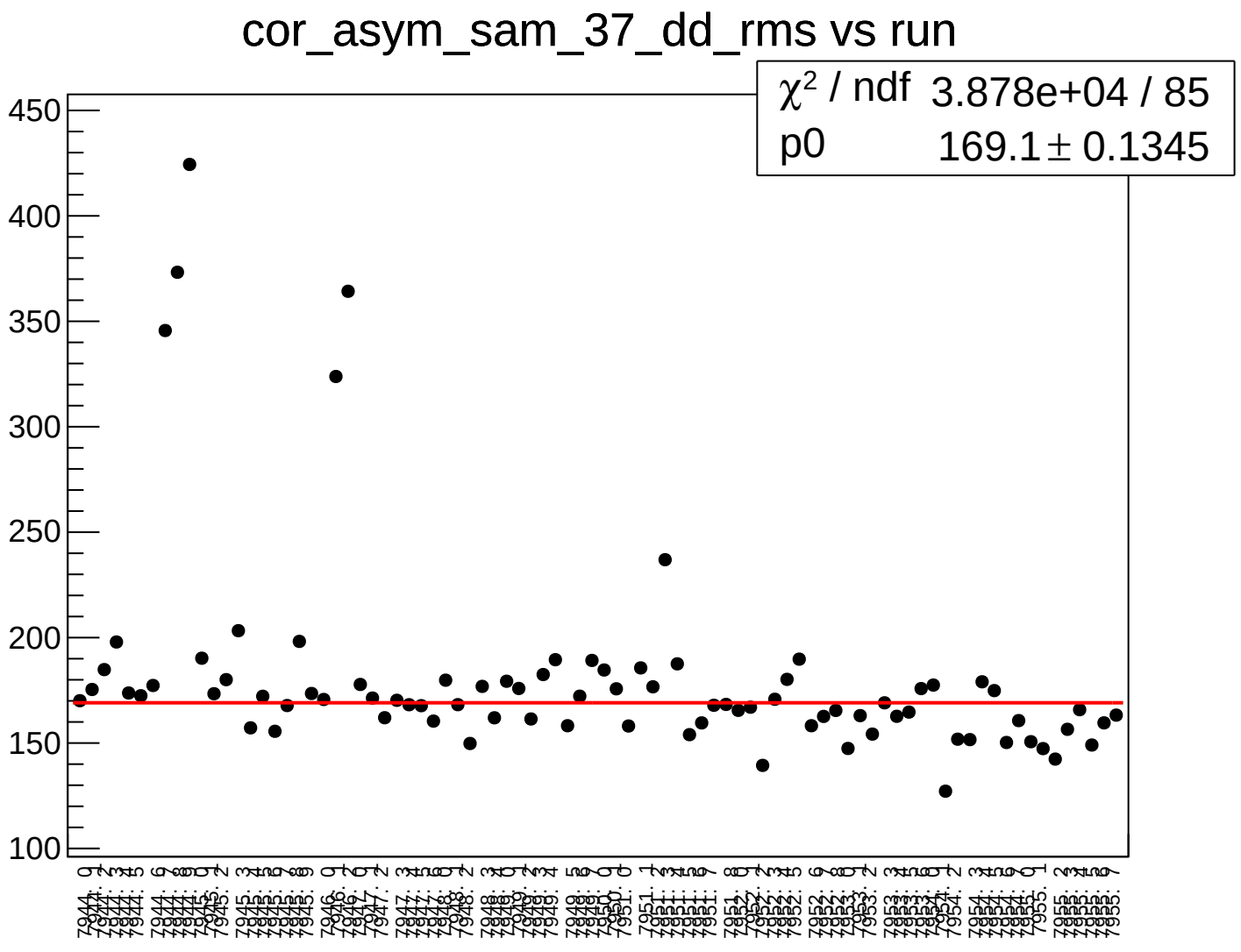

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 90.7 / 85
p0 −374.9 ± 1288
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 863.9
Std Dev 0
2
1
0
−1
−2

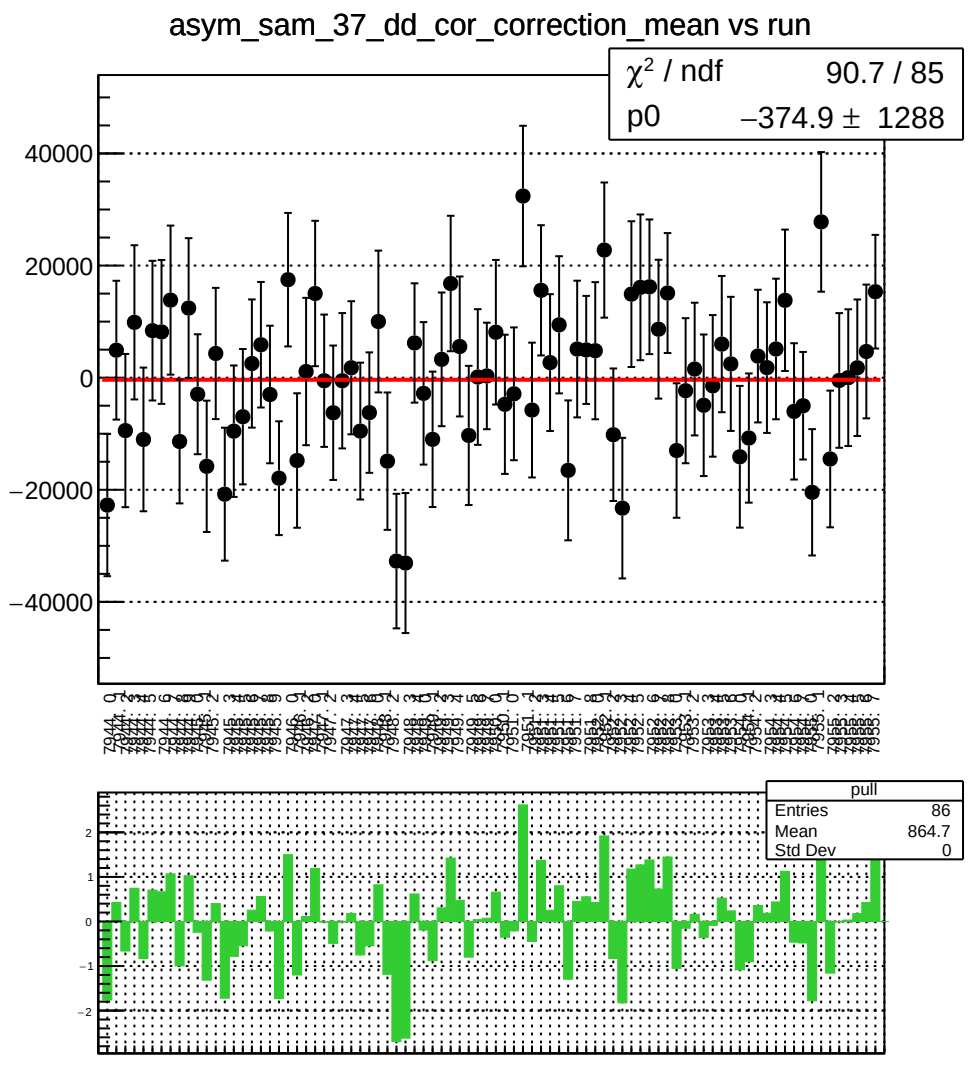

pull1D
Entries 86
Mean 0.004826
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

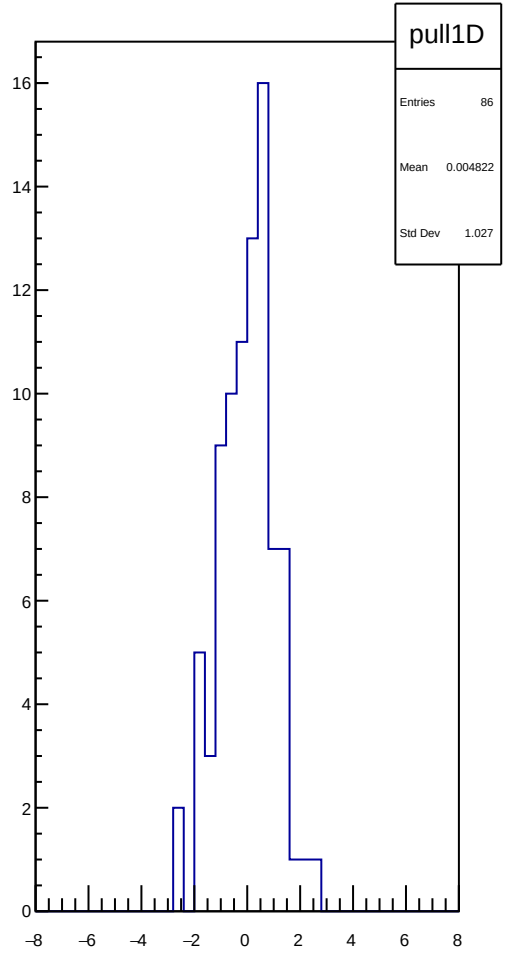

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2944 / 85
p0 1158 ± 0.9109
1300
1250
1200
1150
1100
1050
1000

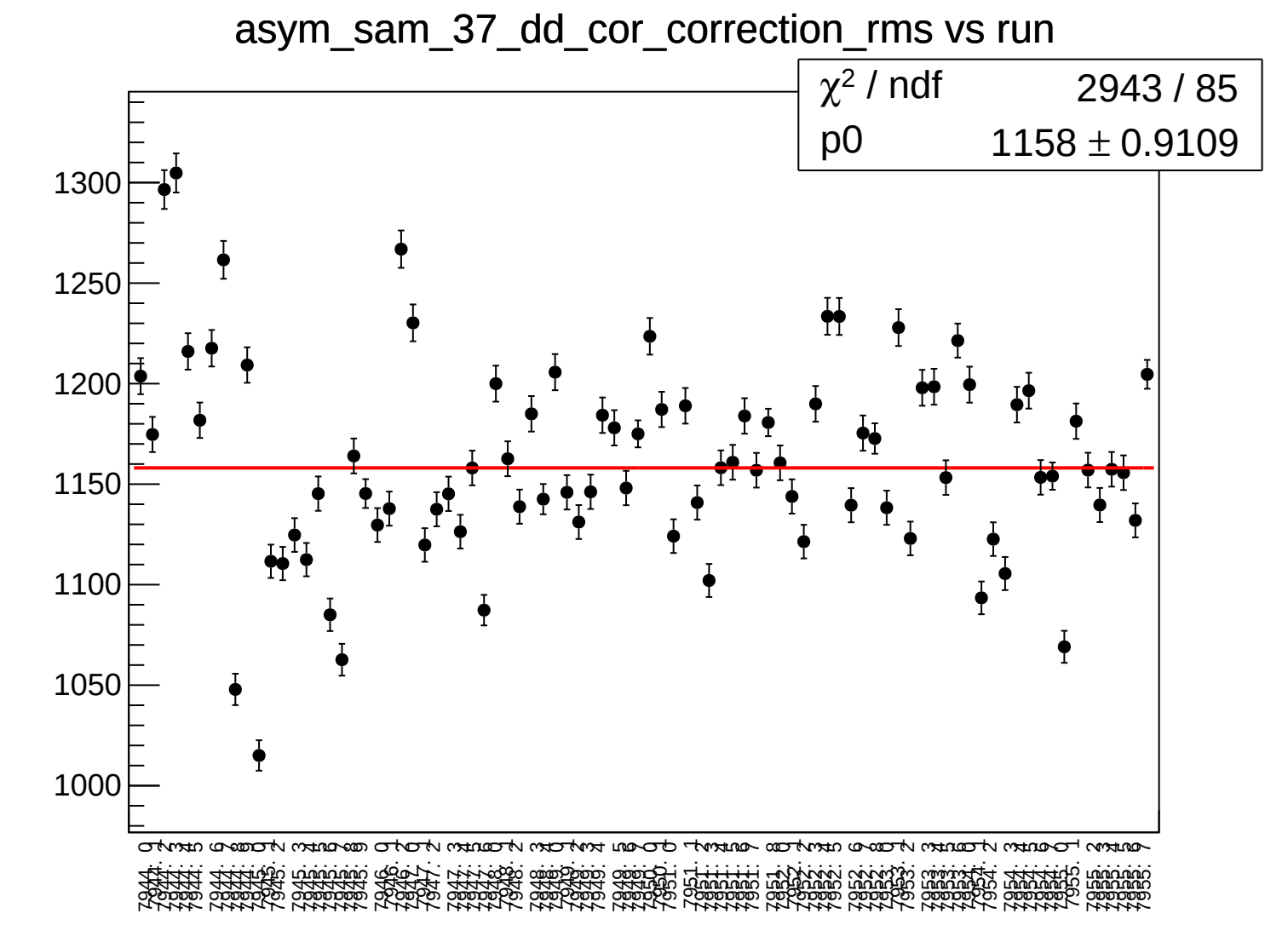

cor_asym_sam_37_dd_mean vs run
χ² / ndf 85.52 / 85
p0 210.6 ± 190.2
pull
Entries 86
Mean −95.27
Std Dev 0

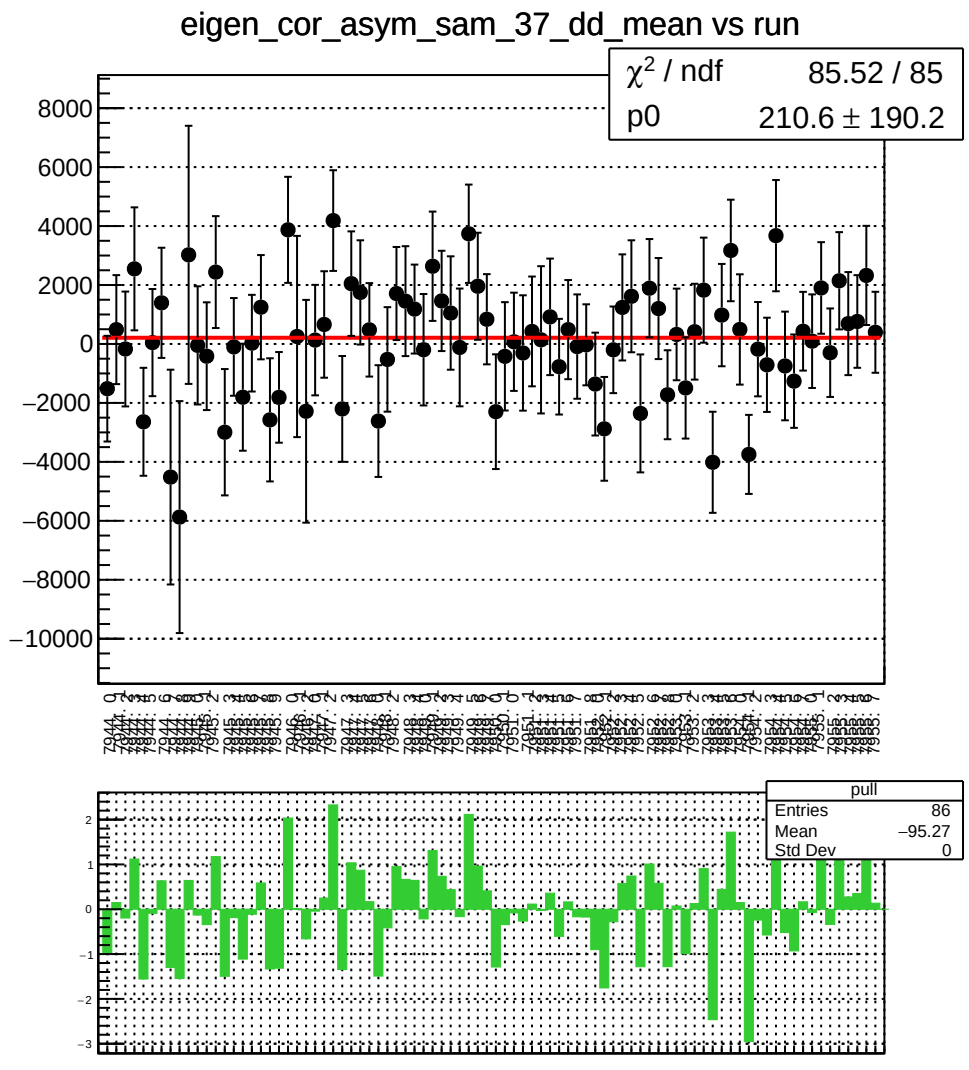

pull1D
Entries 86
Mean −0.01243
Std Dev 0.9971

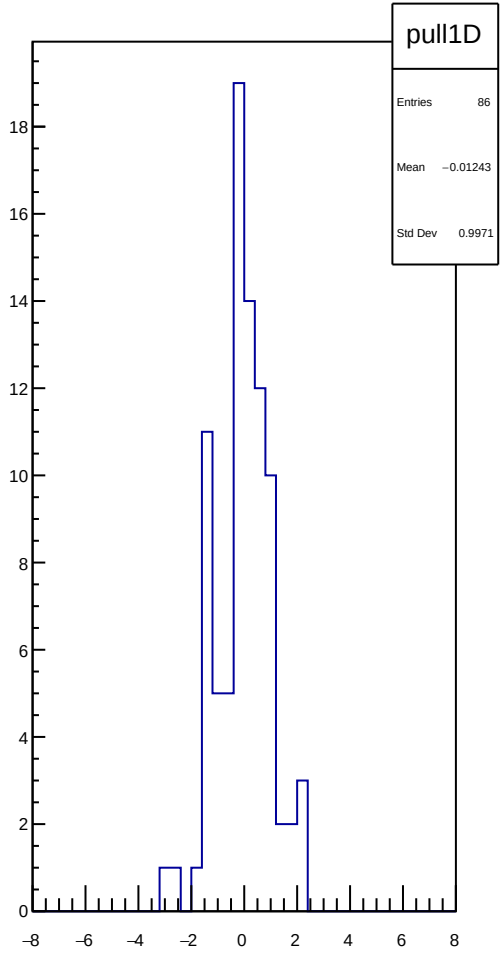

cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.878e+04 / 85
p0 169.1 ± 0.1345
450
400
350
300
250
200
150
100

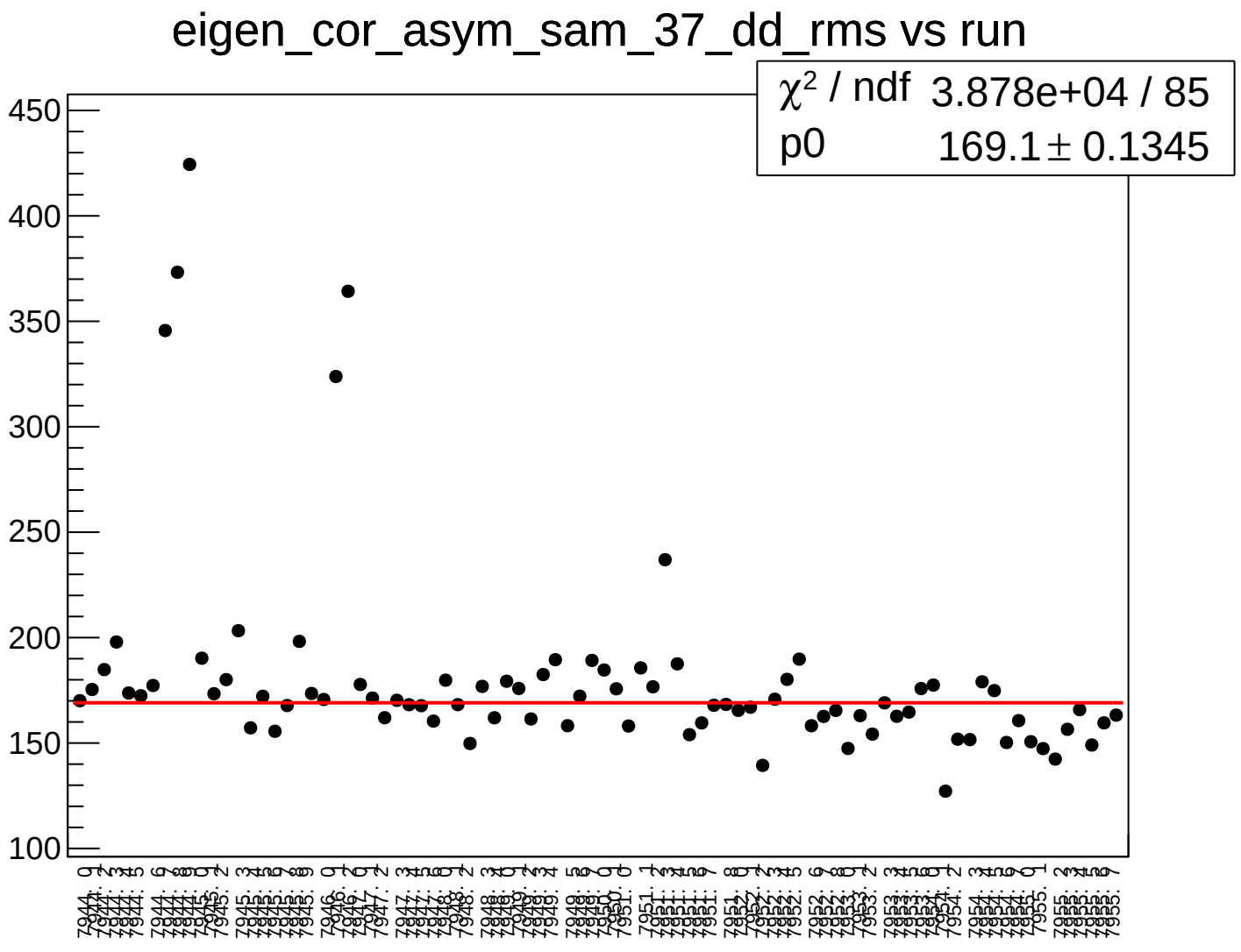

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 90.7 / 85
p0 −374.9 ± 1288
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 864.7
Std Dev 0
2
1
0
−1
−2

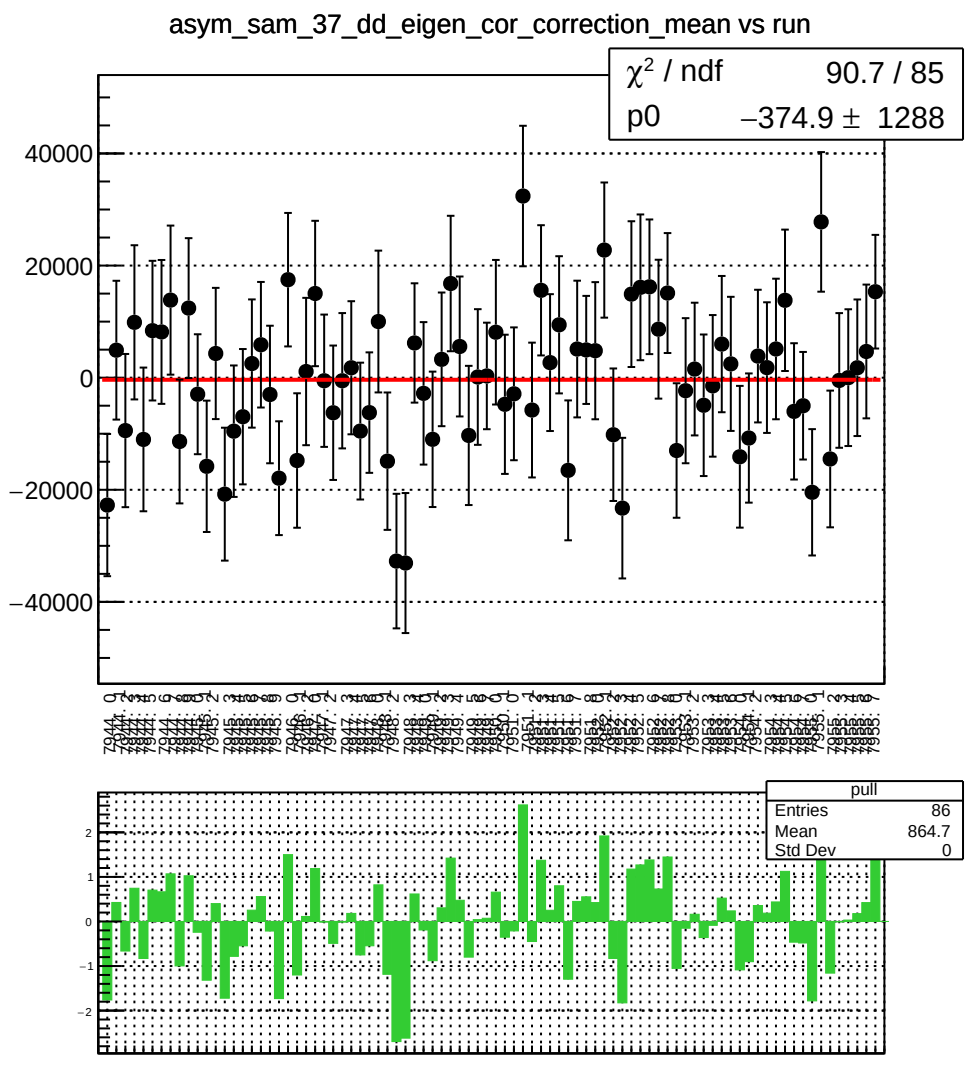

pull1D
Entries 86
Mean 0.004822
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

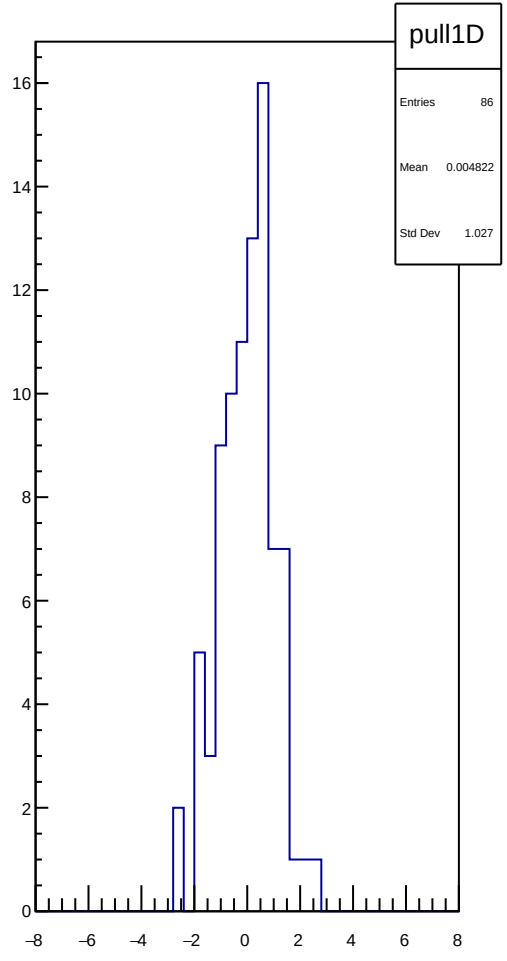

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2943 / 85
p0 1158 ± 0.9109
1300
1250
1200
1150
1100
1050
1000

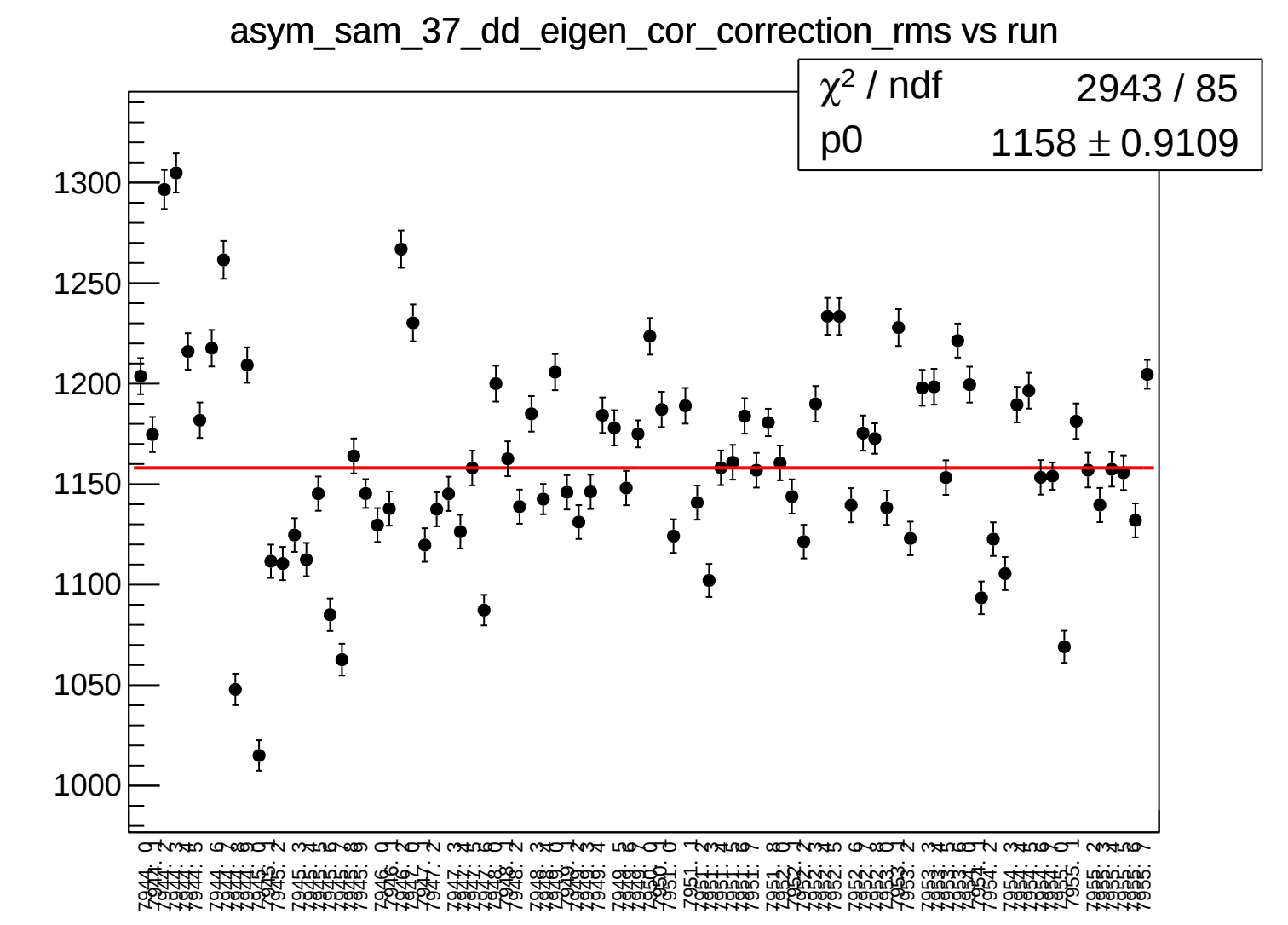

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 85.52 / 85
p0 210.6 ± 190.2
pull
Entries 86
Mean −95.27
Std Dev 0

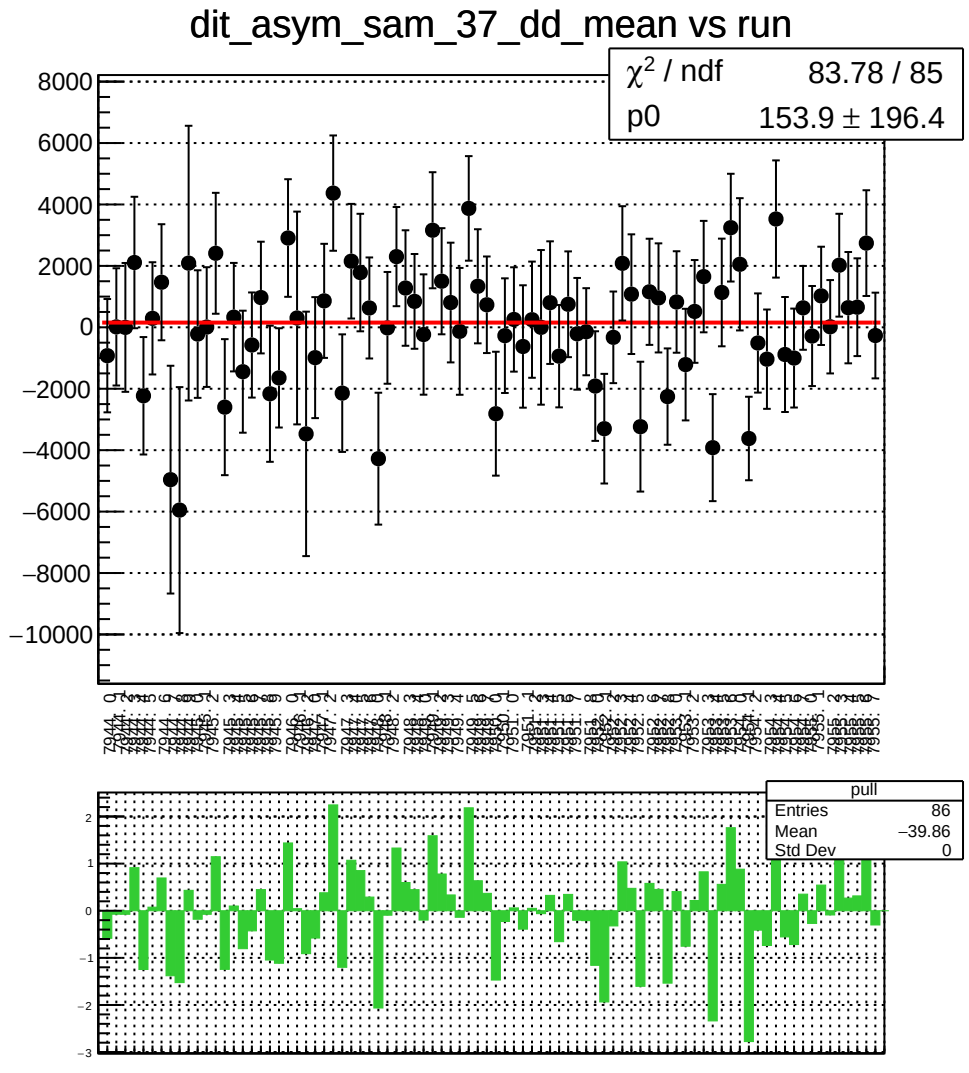

pull1D
Entries 86
Mean −0.01243
Std Dev 0.9971

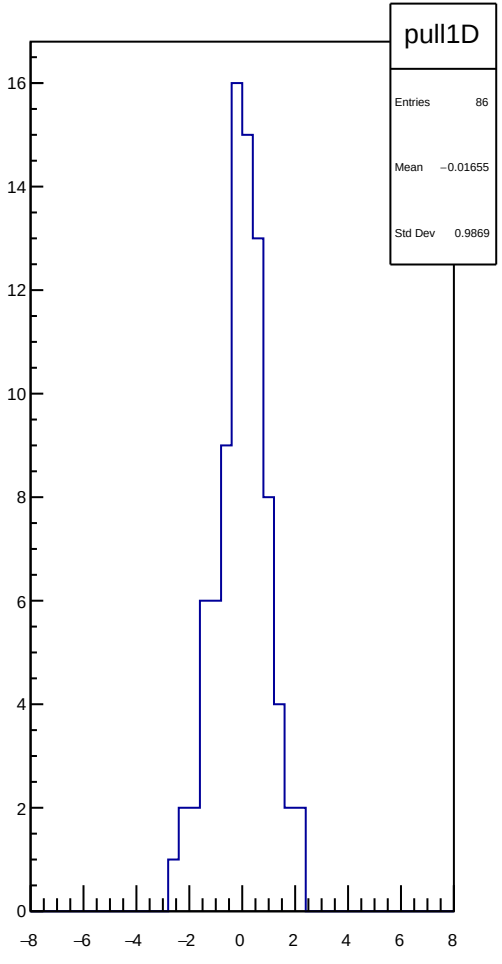

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.878e+04 / 85
p0 169.1 ± 0.1345
450
400
350
300
250
200
150
100

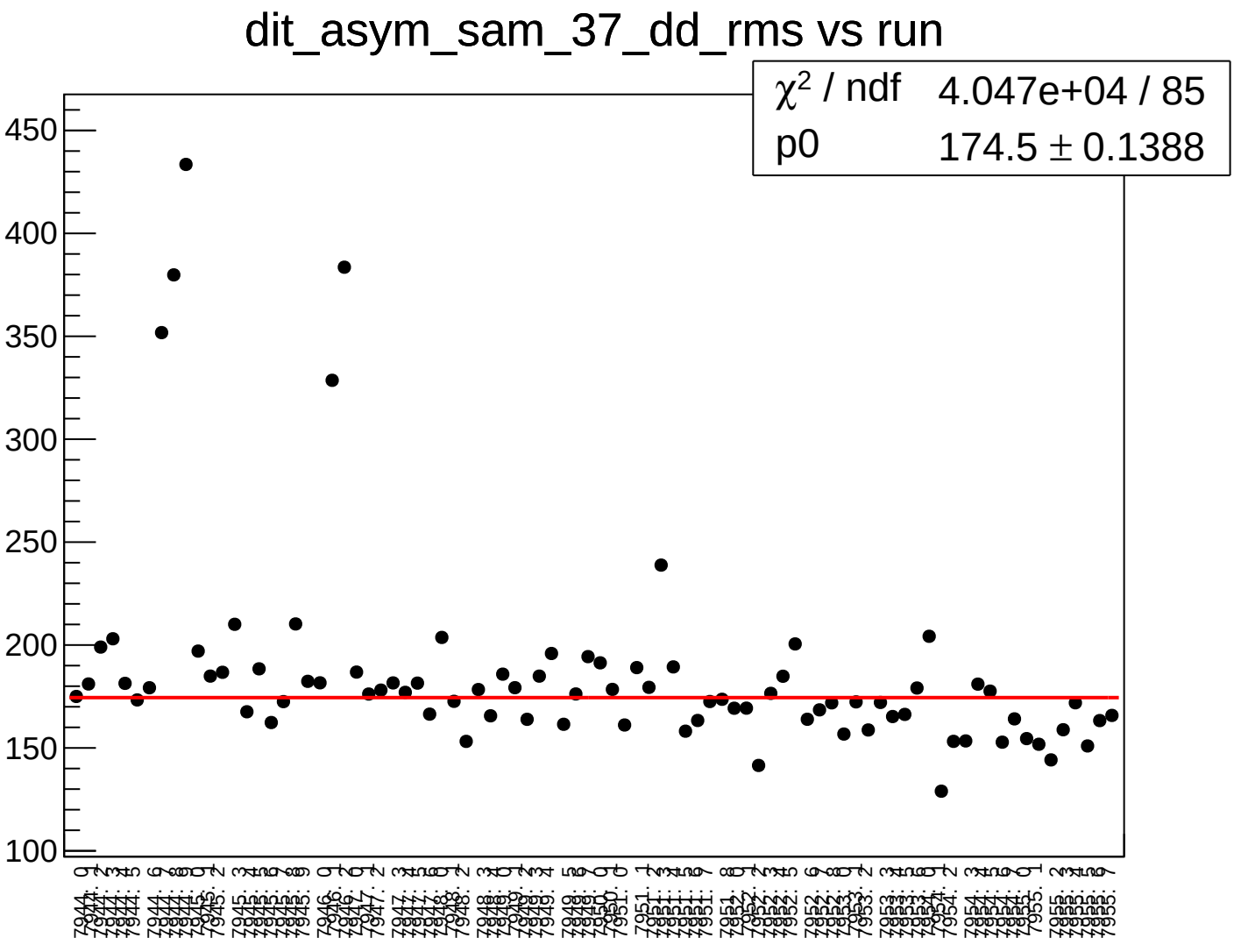

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.7 / 85
p0 −374.9 ± 1288
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 864.7
Std Dev 0
2
1
0
−1
−2

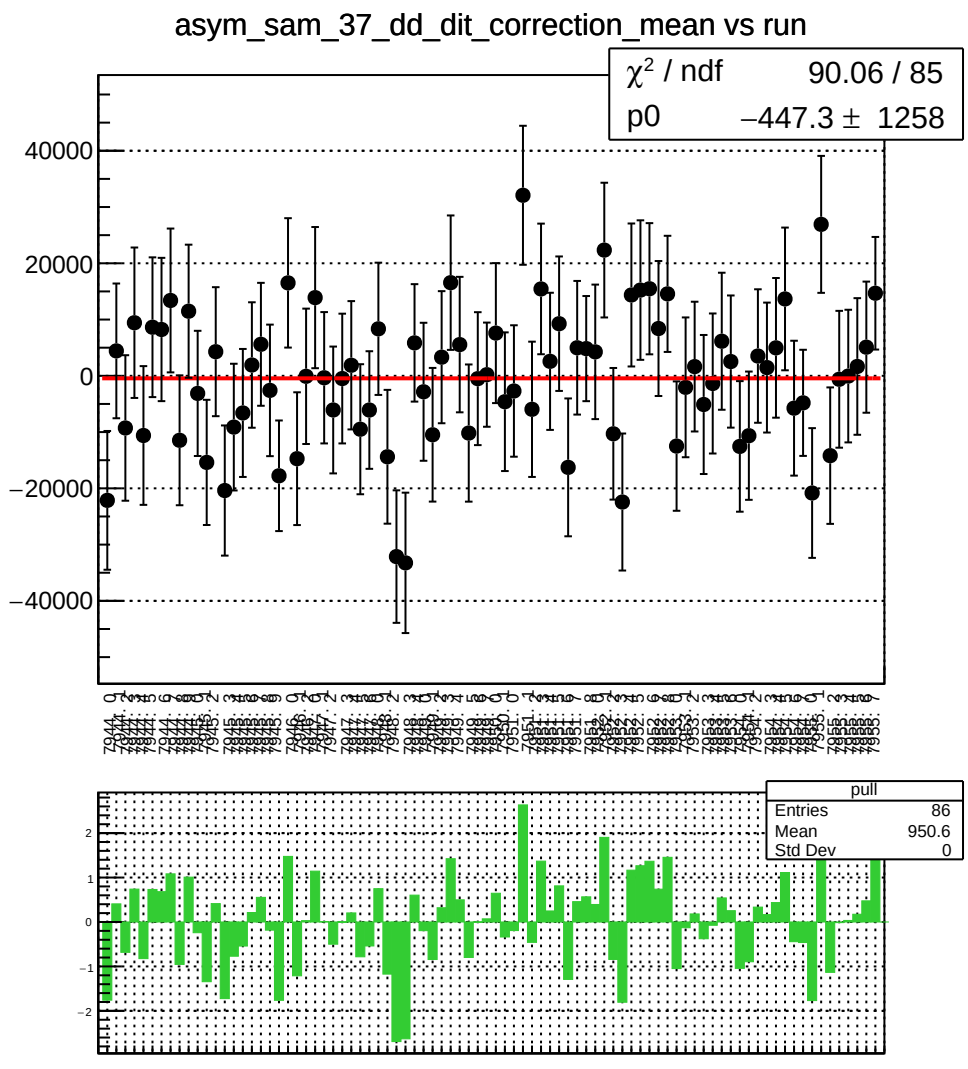

pull1D
Entries 86
Mean 0.004822
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

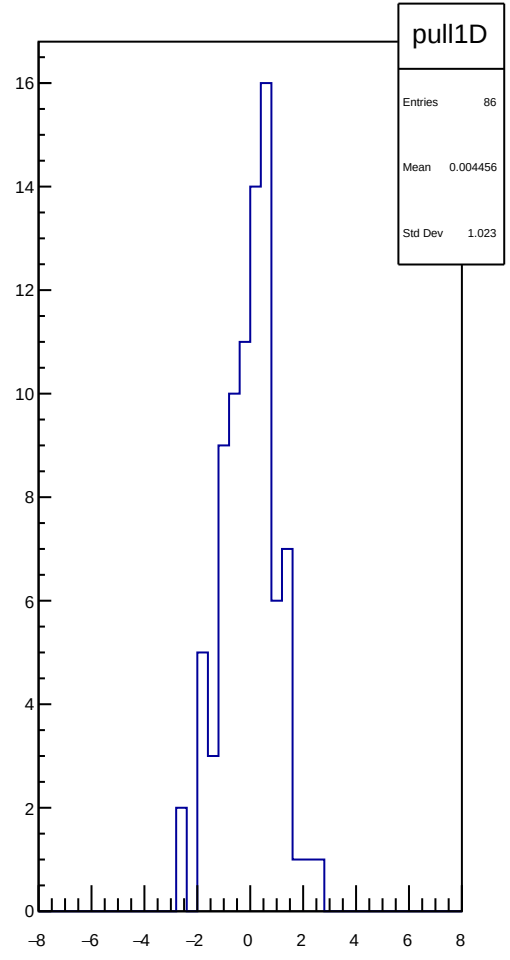

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2943 / 85
p0 1158 ± 0.9109
1300
1250
1200
1150
1100
1050
1000

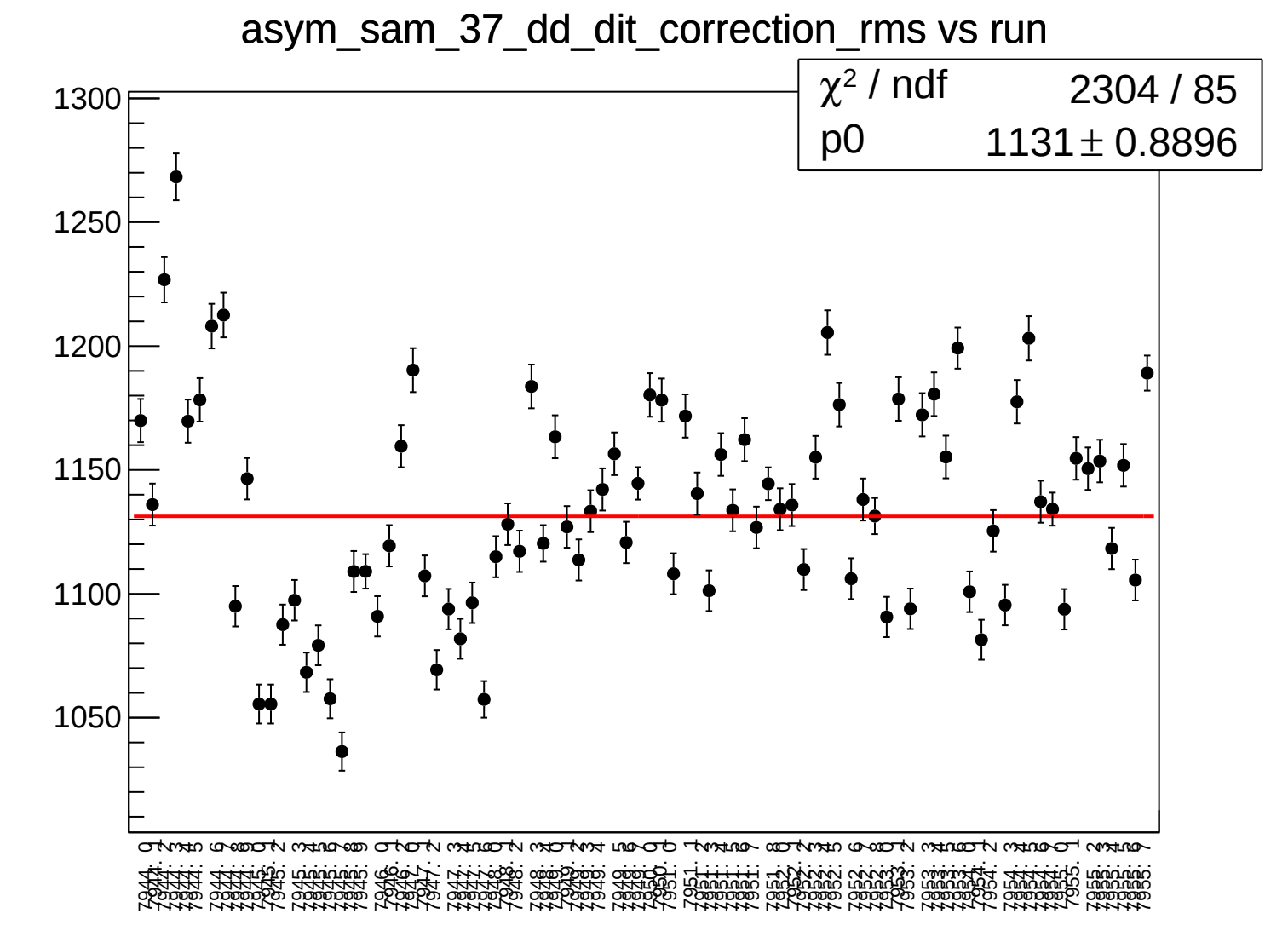

dit_asym_sam_37_dd_mean vs run
χ² / ndf 83.78 / 85
p0 153.9 ± 196.4
pull
Entries 86
Mean −39.86
Std Dev 0

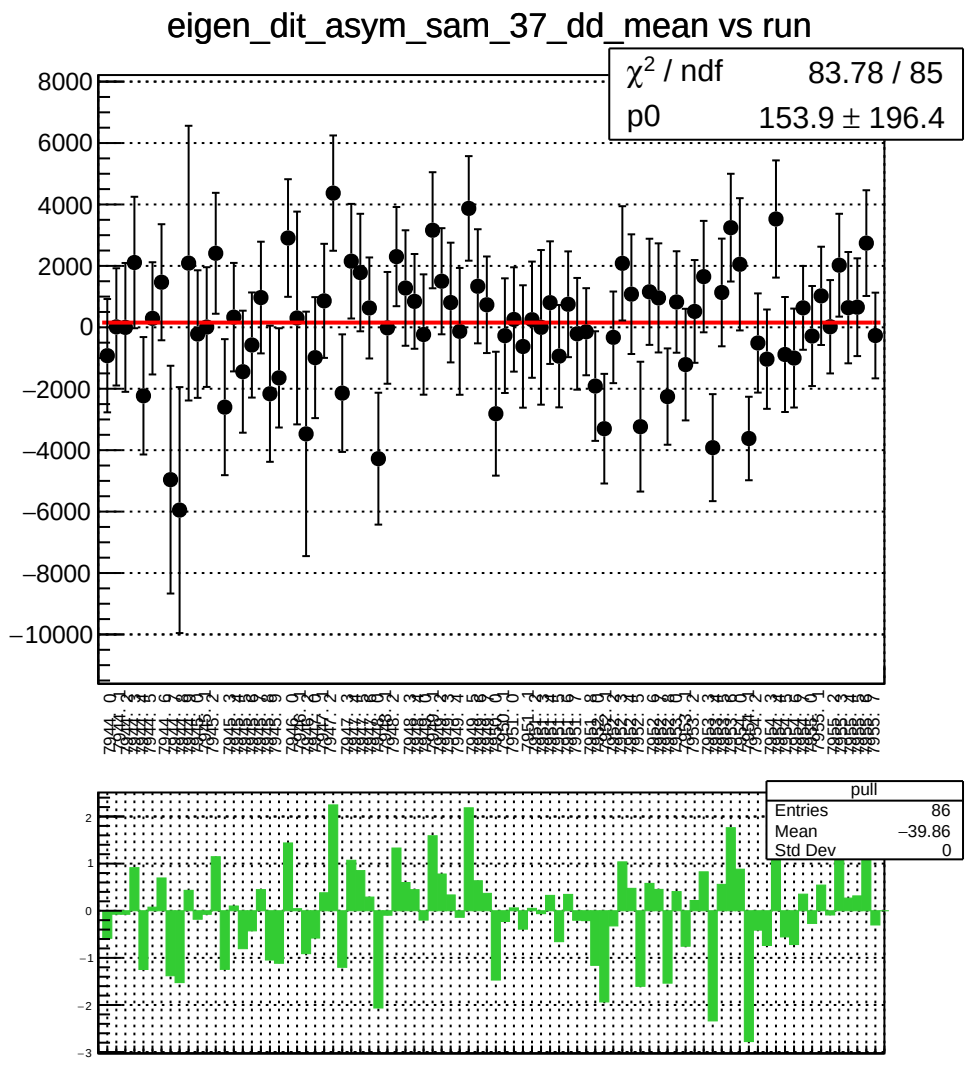

pull1D
Entries 86
Mean −0.01655
Std Dev 0.9869

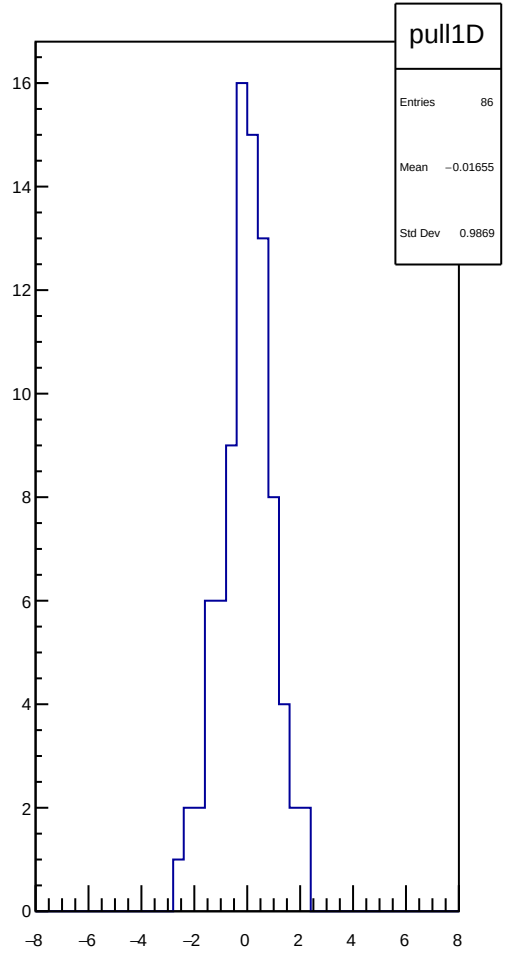

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 4.047e+04 / 85
p0 174.5 ± 0.1388
450
400
350
300
250
200
150
100

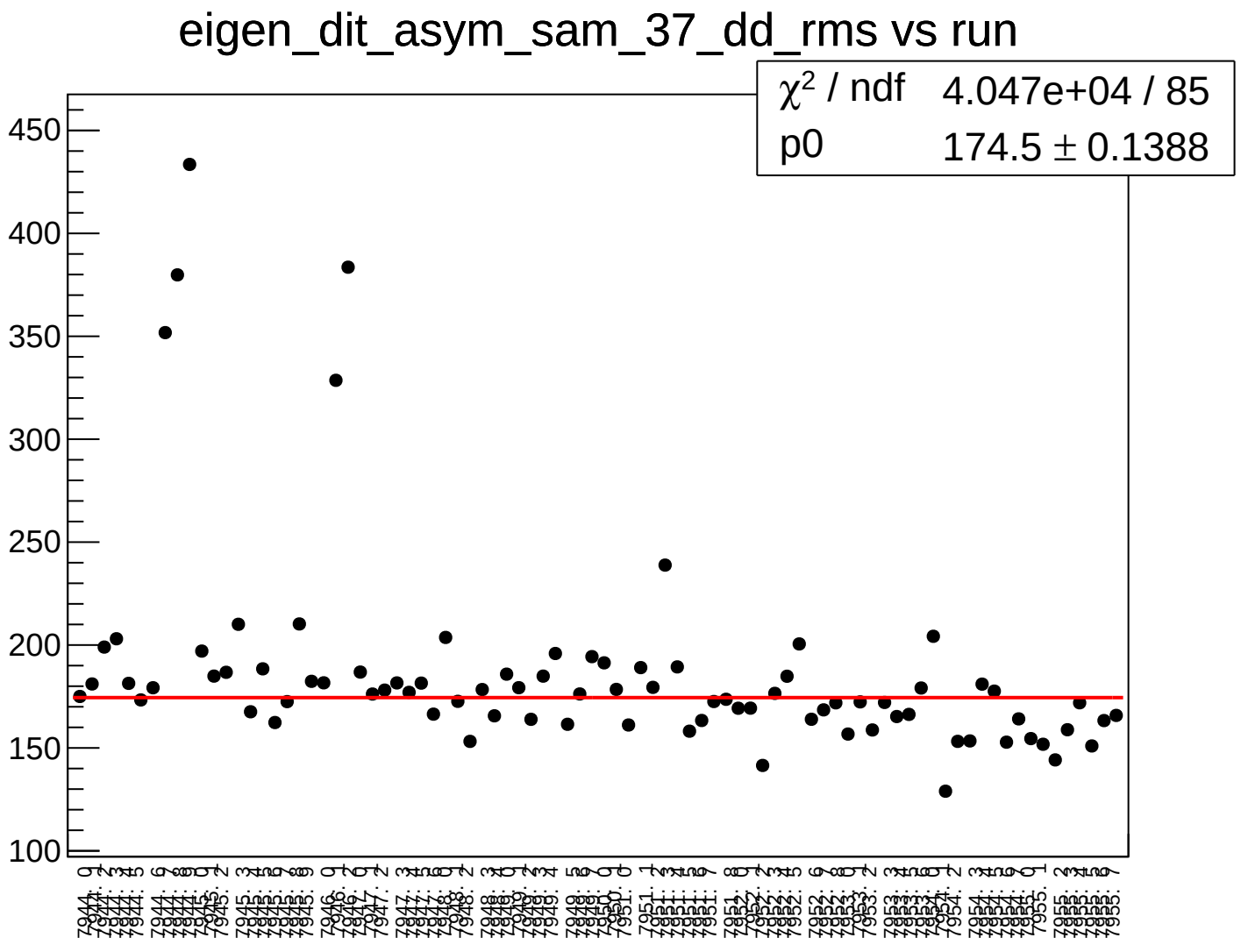

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 90.06 / 85
p0 −447.3 ± 1258
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 950.6
Std Dev 0
2
1
0
−1
−2

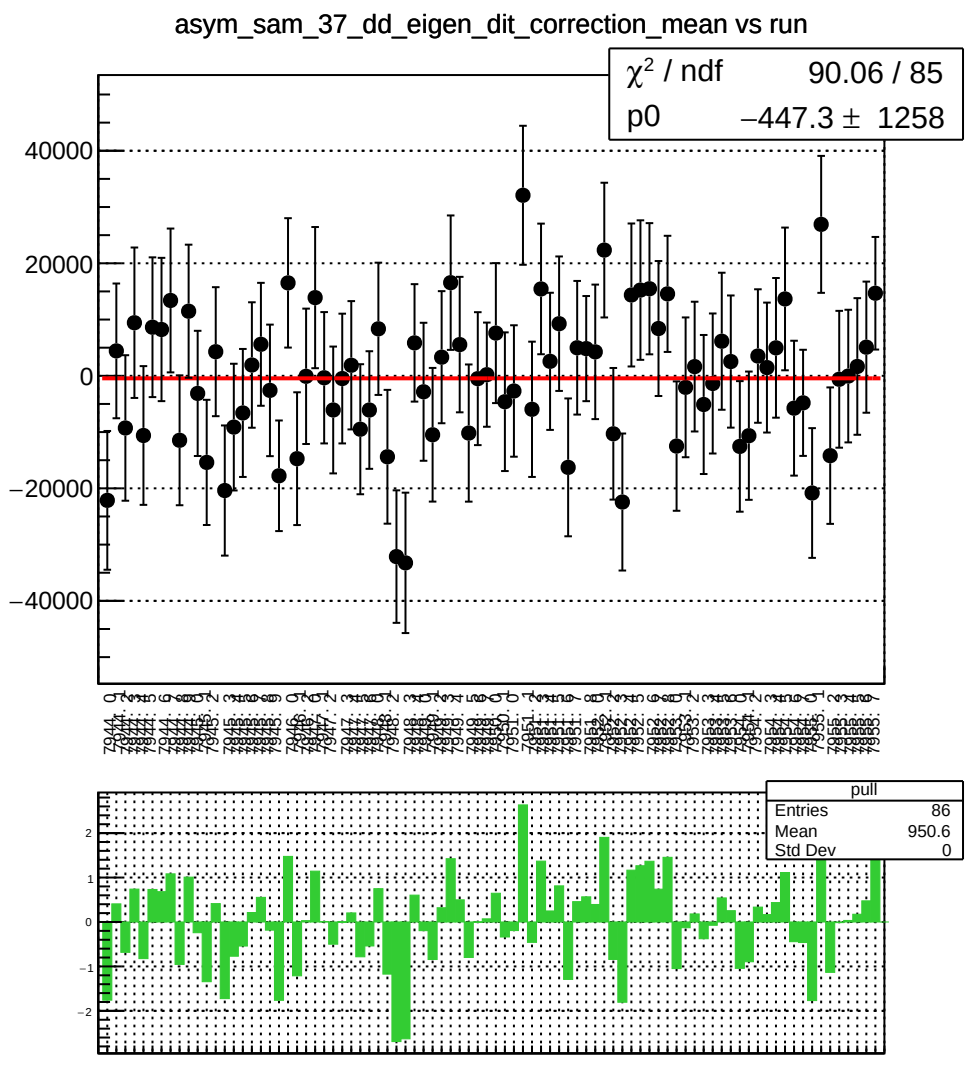

pull1D
Entries 86
Mean 0.004456
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

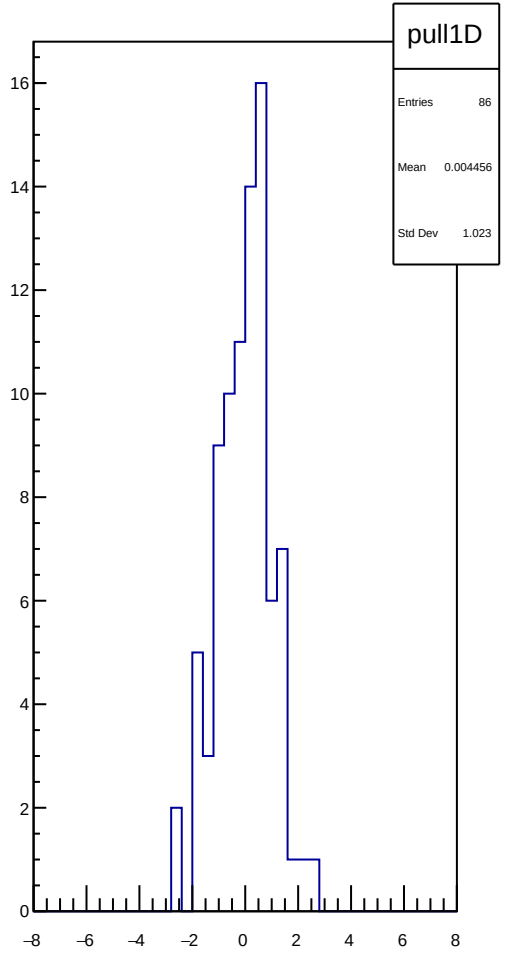

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2304 / 85
p0 1131 ± 0.8896
1300
1250
1200
1150
1100
1050

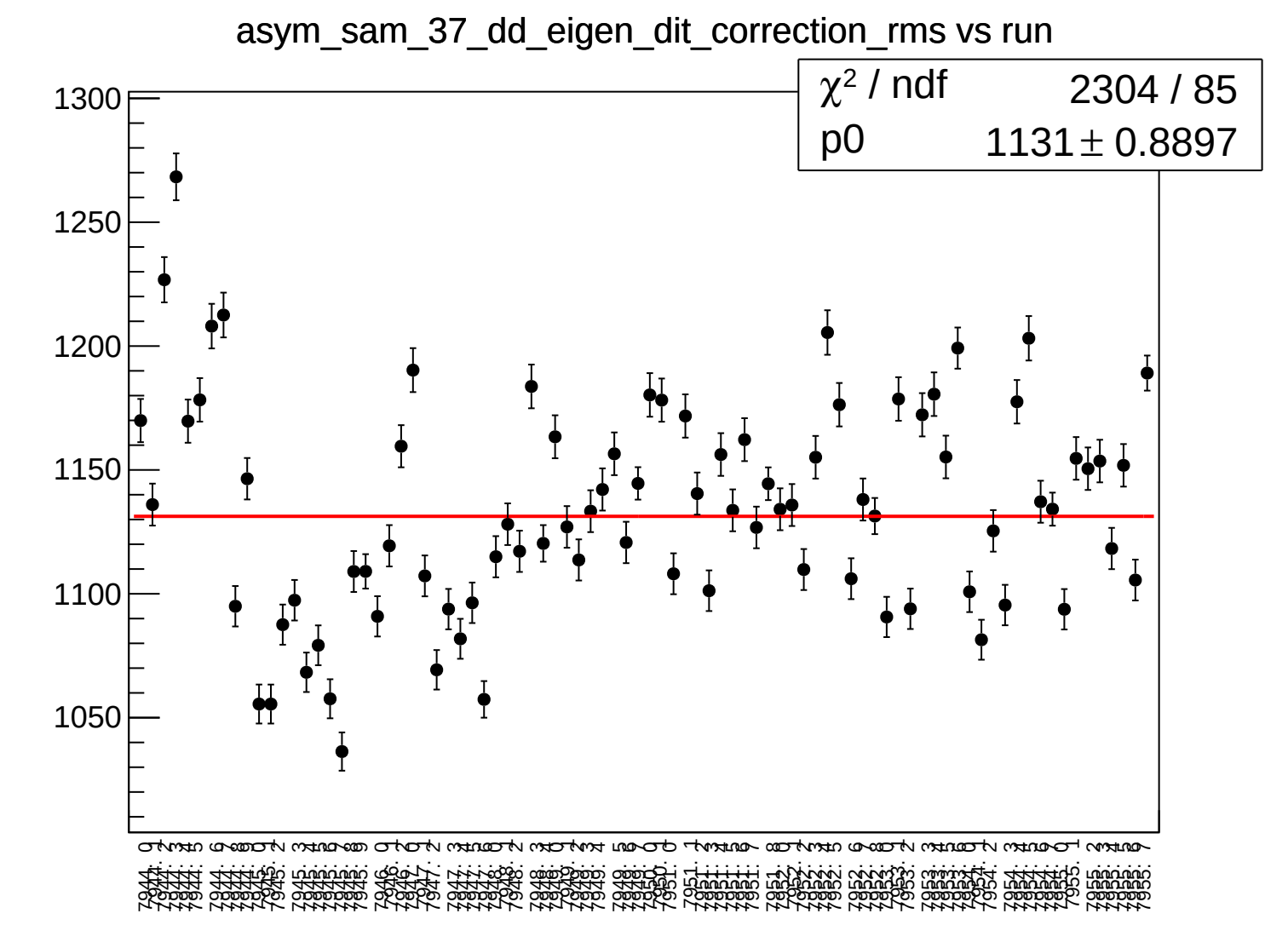

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 83.78 / 85
p0 153.9 ± 196.4
pull
Entries 86
Mean −39.86
Std Dev 0

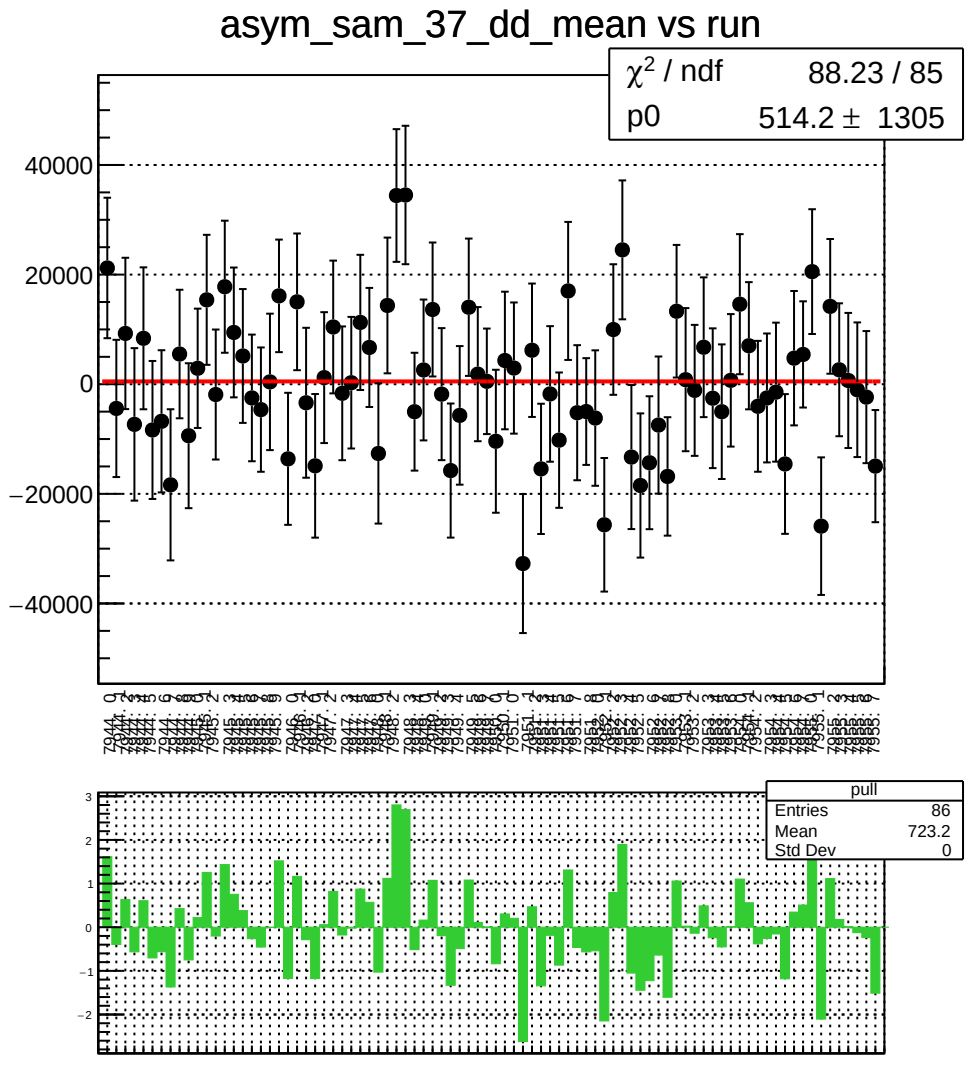

pull1D
Entries 86
Mean −0.01655
Std Dev 0.9869

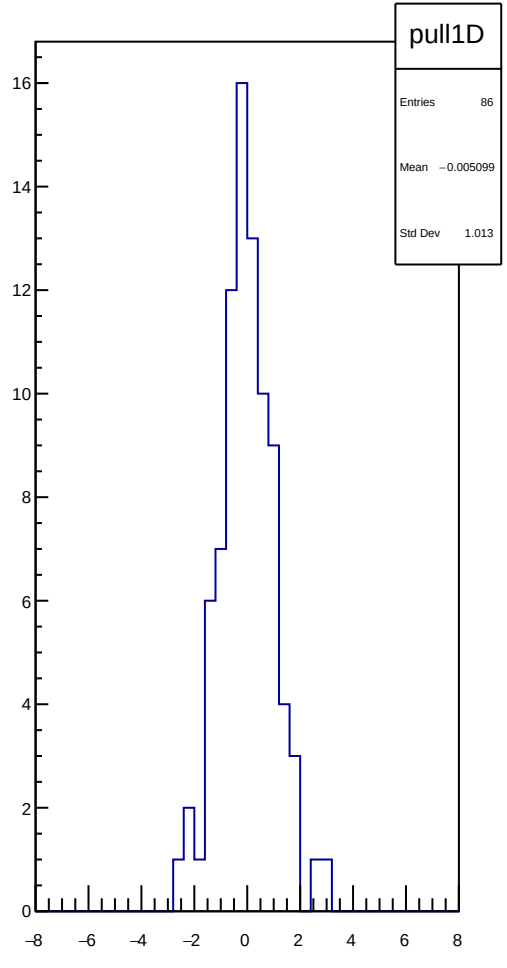

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 4.047e+04 / 85
p0 174.5 ± 0.1388
450
400
350
300
250
200
150
100

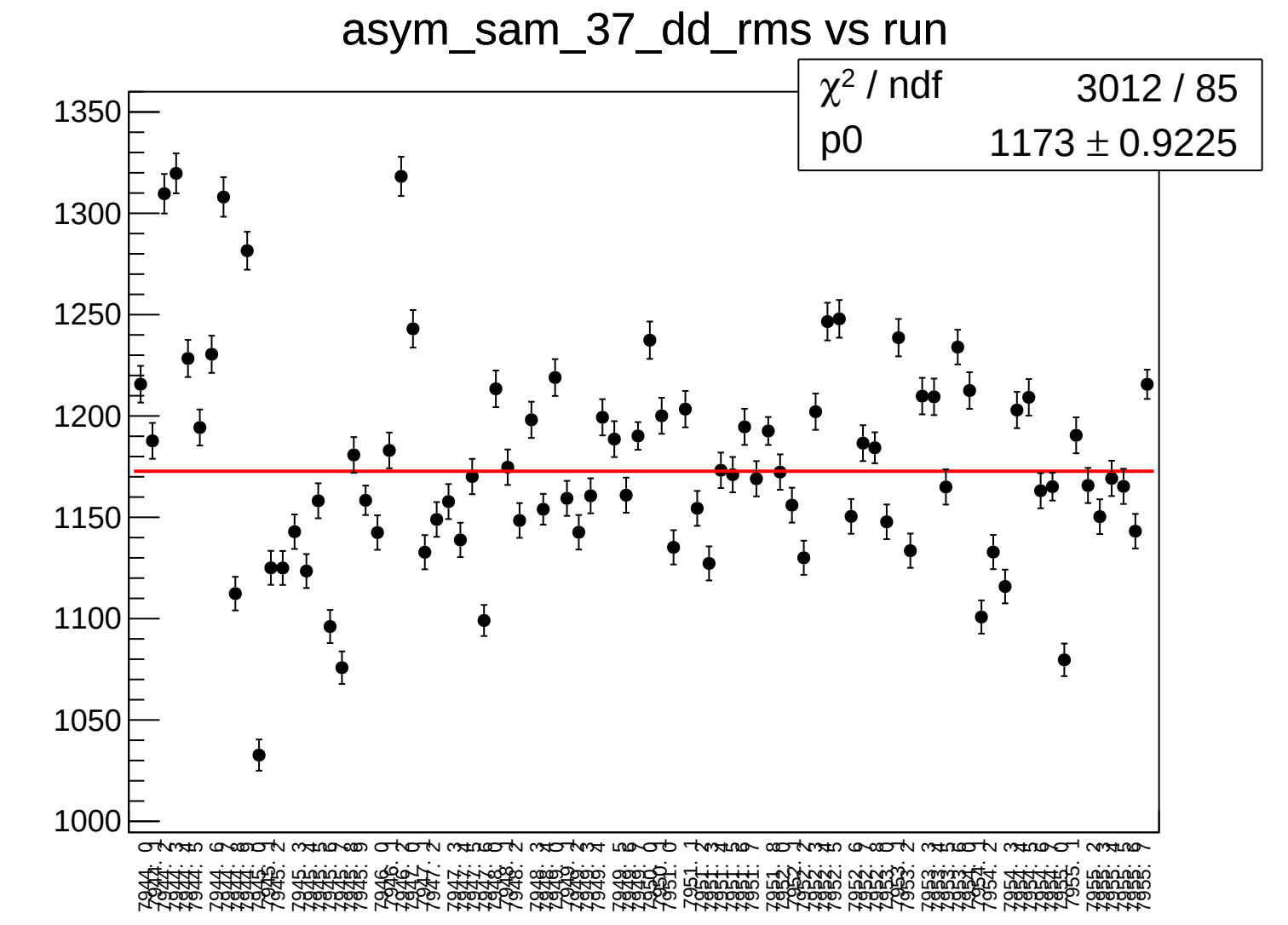

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.06 / 85
p0 −447.3 ± 1258
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 950.6
Std Dev 0
2
1
0
−1
−2

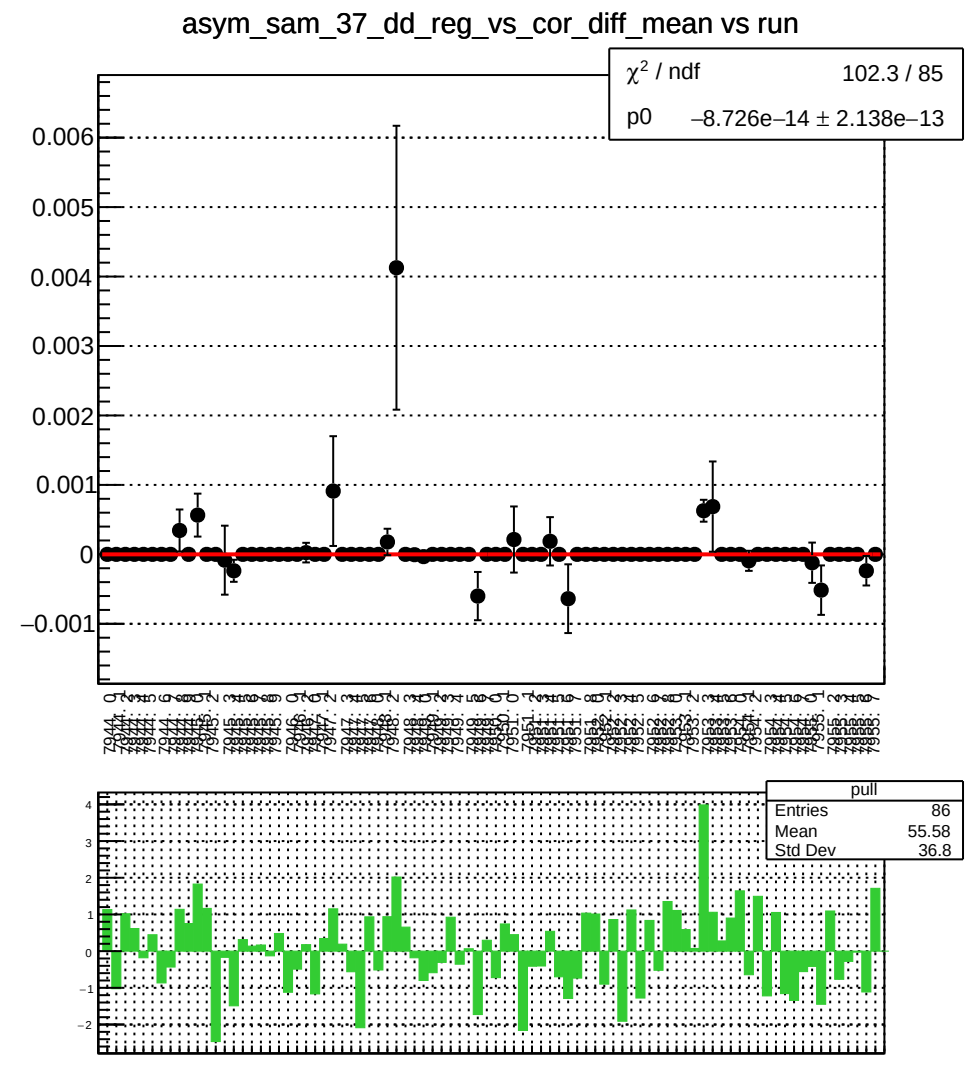

pull1D
Entries 86
Mean 0.004456
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

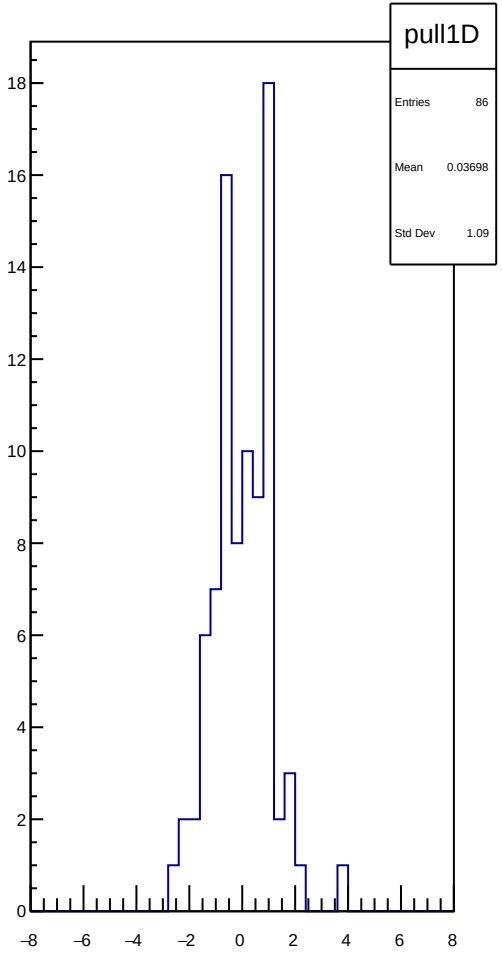

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2304 / 85
p0 1131 ± 0.8897
1300
1250
1200
1150
1100
1050

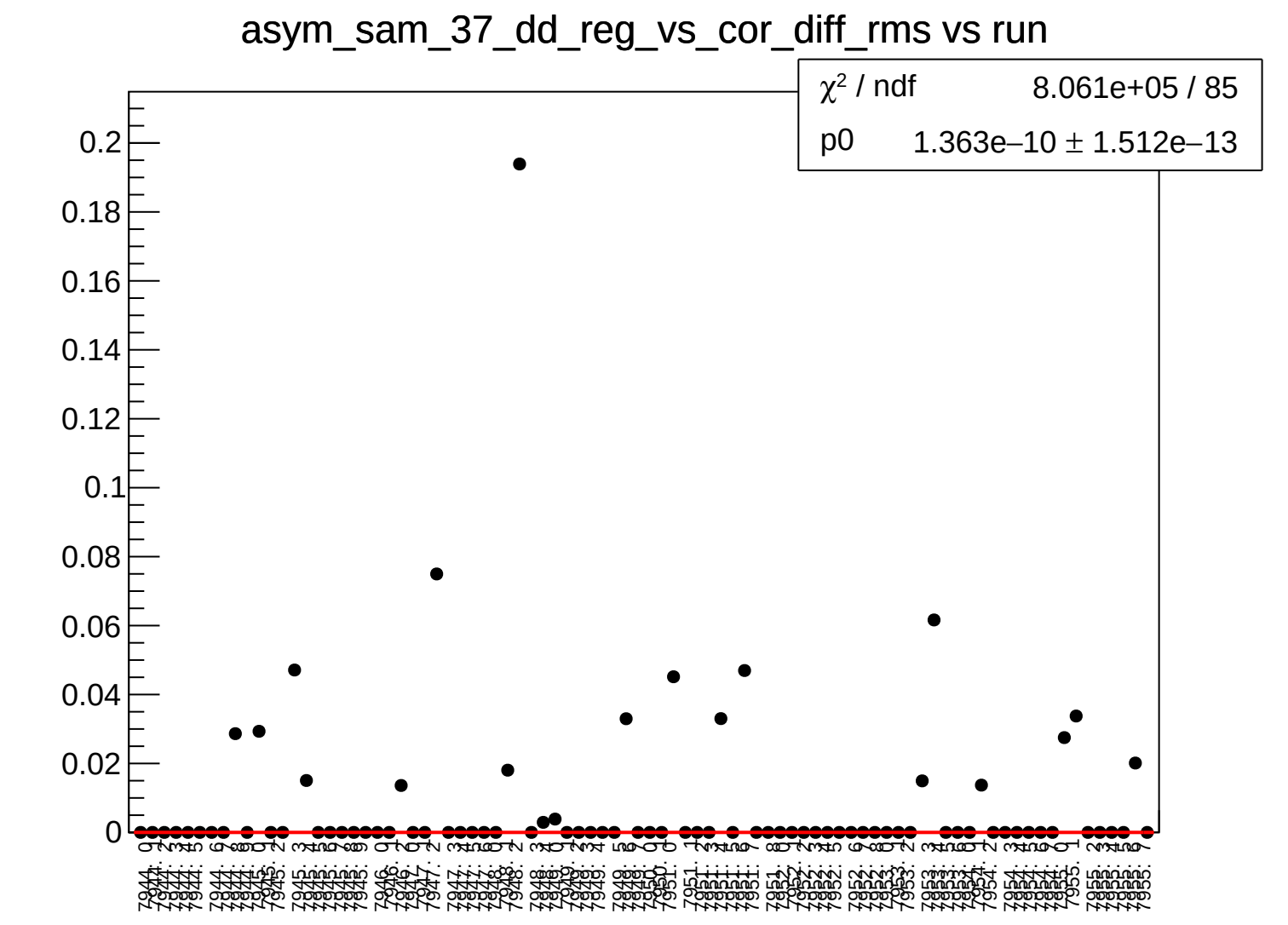

asym_sam_37_dd_mean vs run
χ² / ndf 88.23 / 85
p0 514.2 ± 1305
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 723.2
Std Dev 0
3
2
1
0
−1
−2

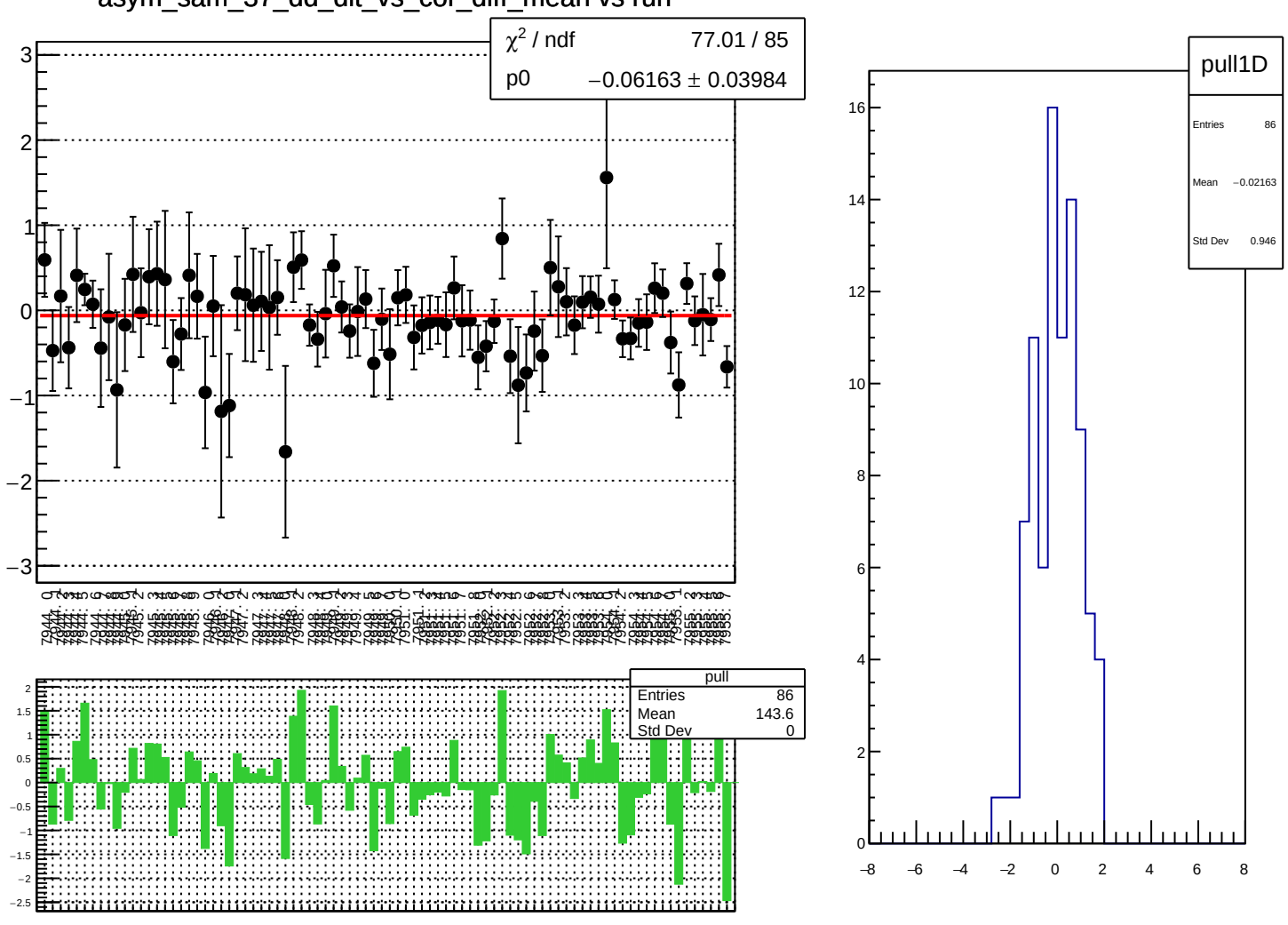

pull1D
Entries 86
Mean −0.005099
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

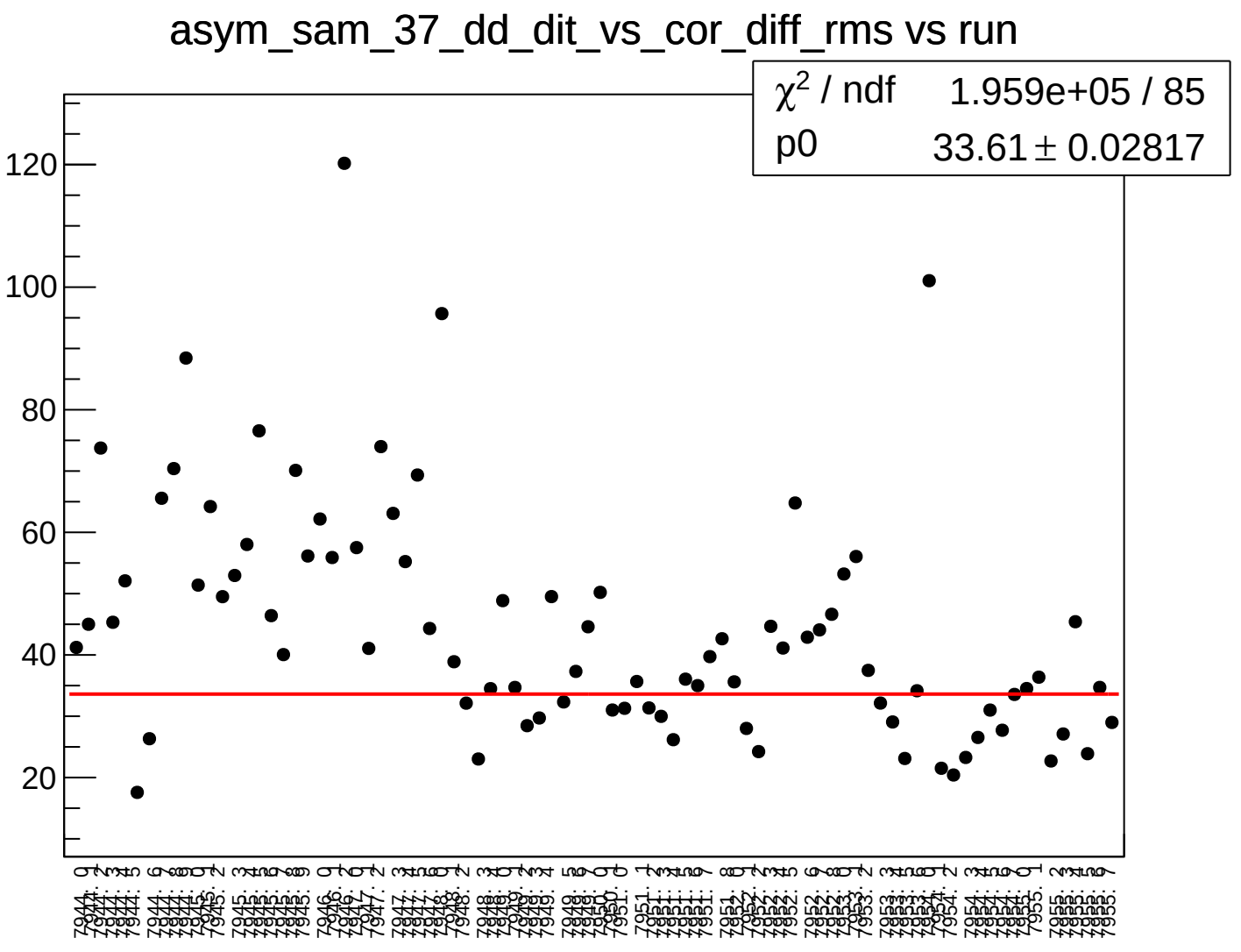

asym_sam_37_dd_rms vs run
χ² / ndf 3012 / 85
p0 1173 ± 0.9225
1350
1300
1250
1200
1150
1100
1050
1000

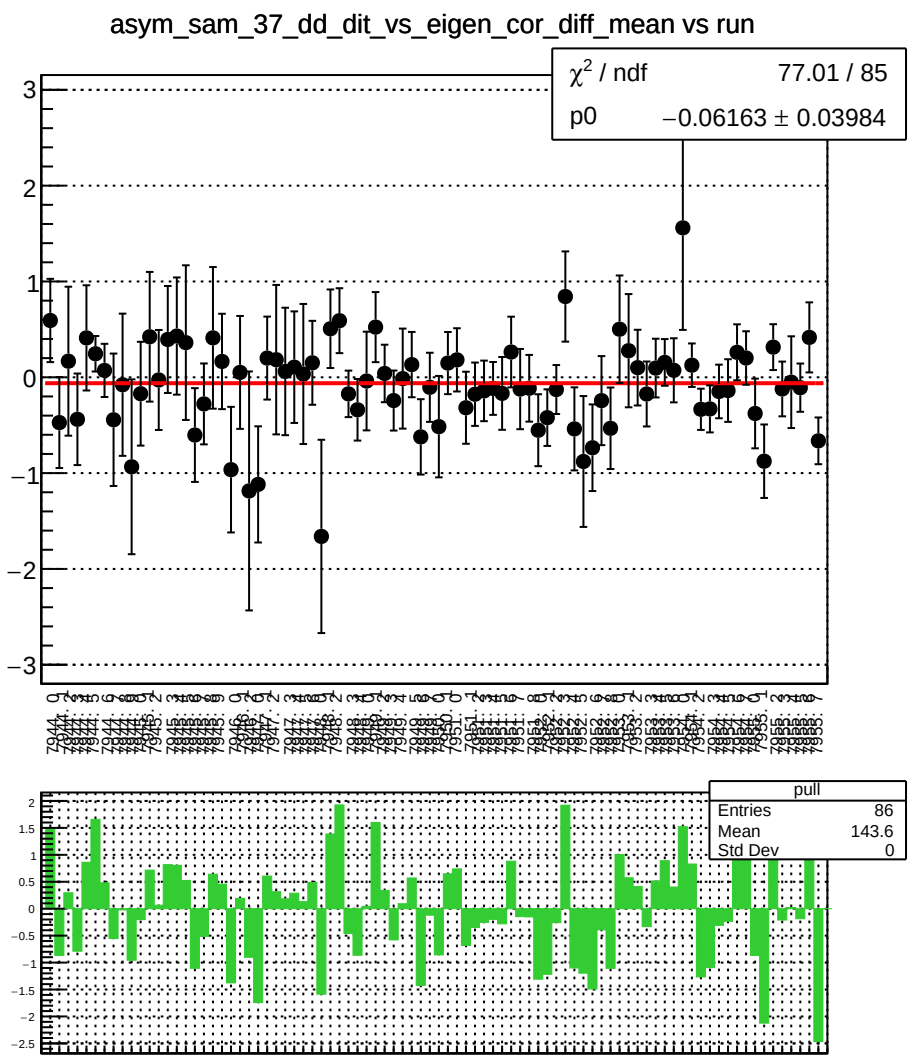

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 85
p0 −8.726e−14 ± 2.138e−13
0.006
0.005
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 86
Mean 55.58
Std Dev 36.8
4
3
2
1
0
−1
−2

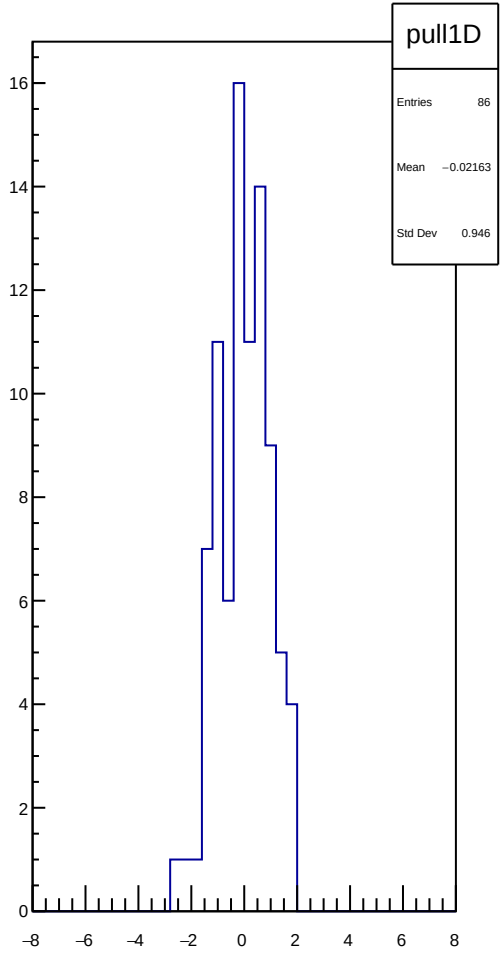

pull1D
Entries 86
Mean 0.03698
Std Dev 1.09
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

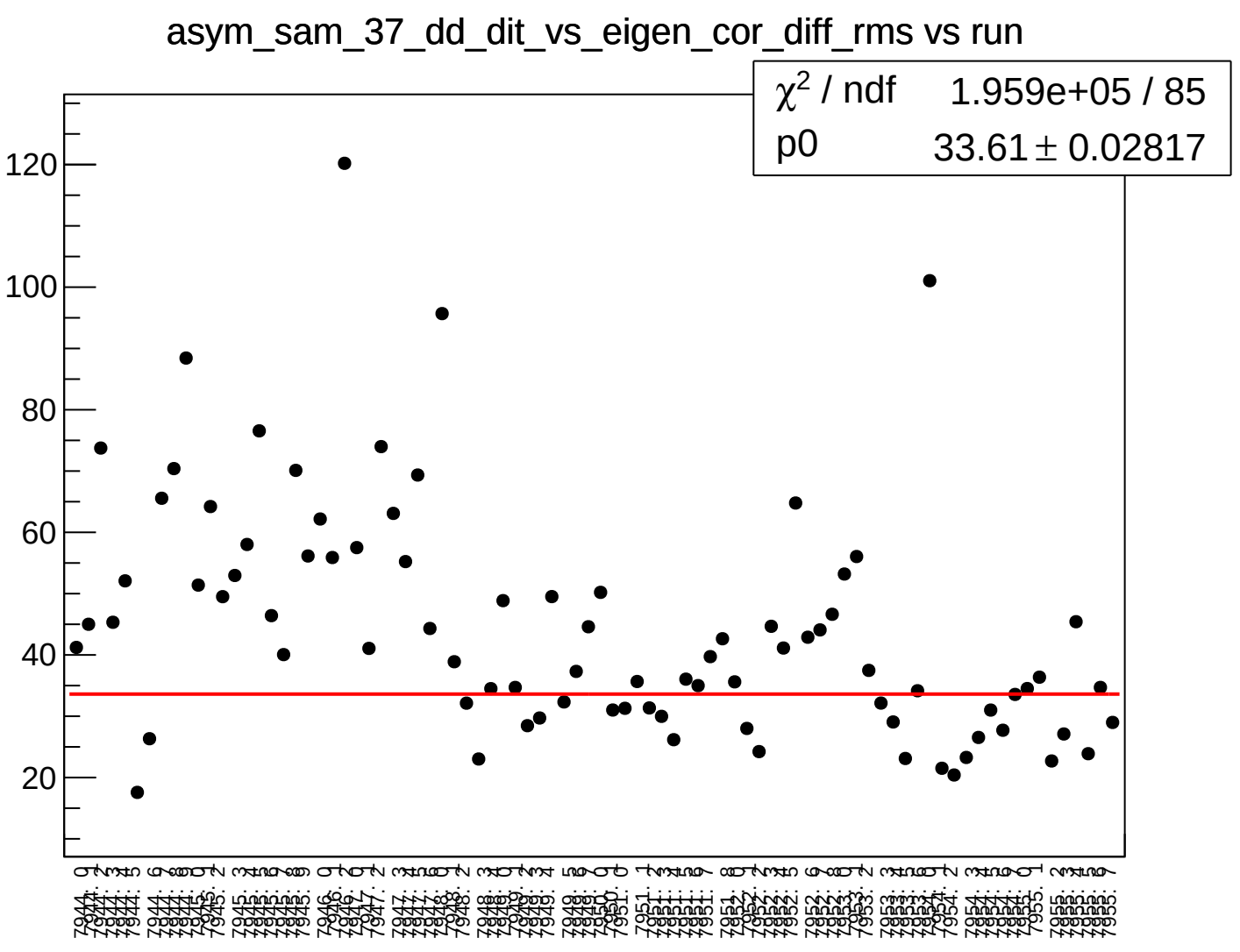

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.061e+05 / 85
p0 1.363e−10 ± 1.512e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

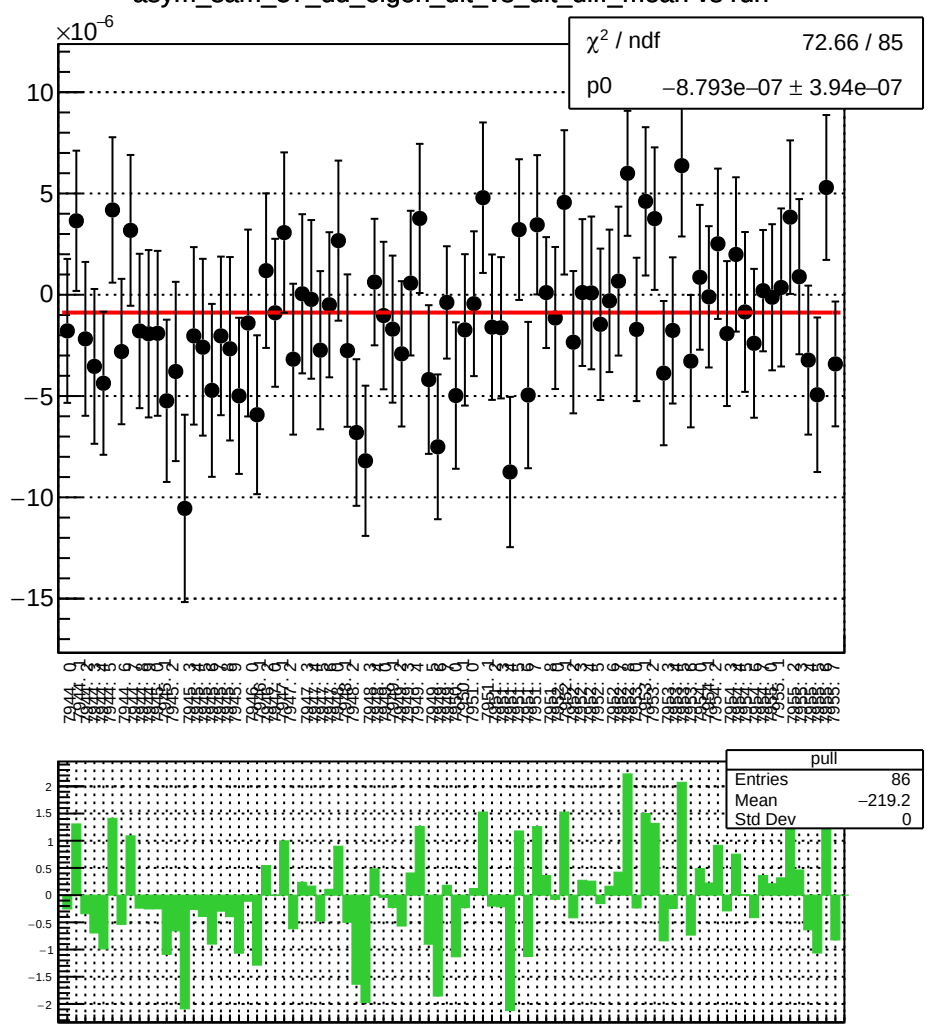

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.01 / 85
p0 −0.06163 ± 0.03984
pull
Entries 86
Mean 143.6
Std Dev 0
pull1D
Entries 86
Mean −0.02163
Std Dev 0.946

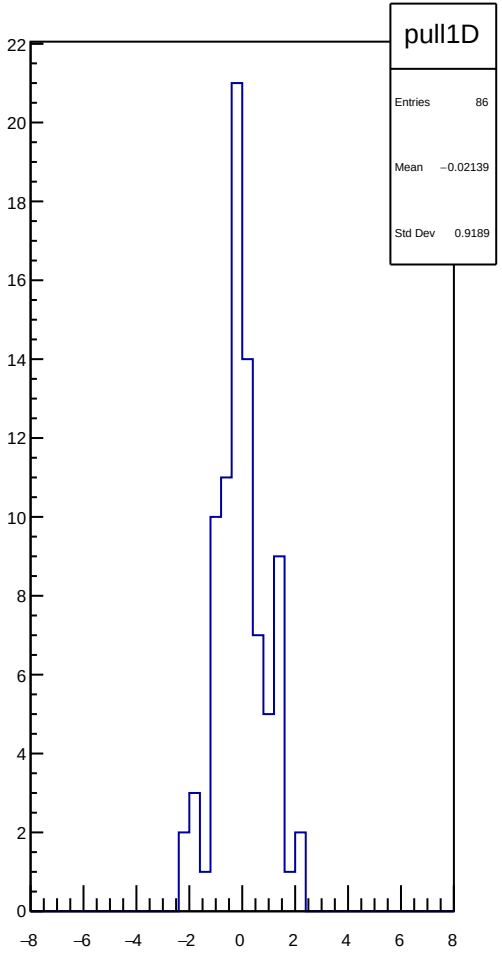

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.959e+05 / 85
p0 33.61 ± 0.02817
120
100
80
60
40
20

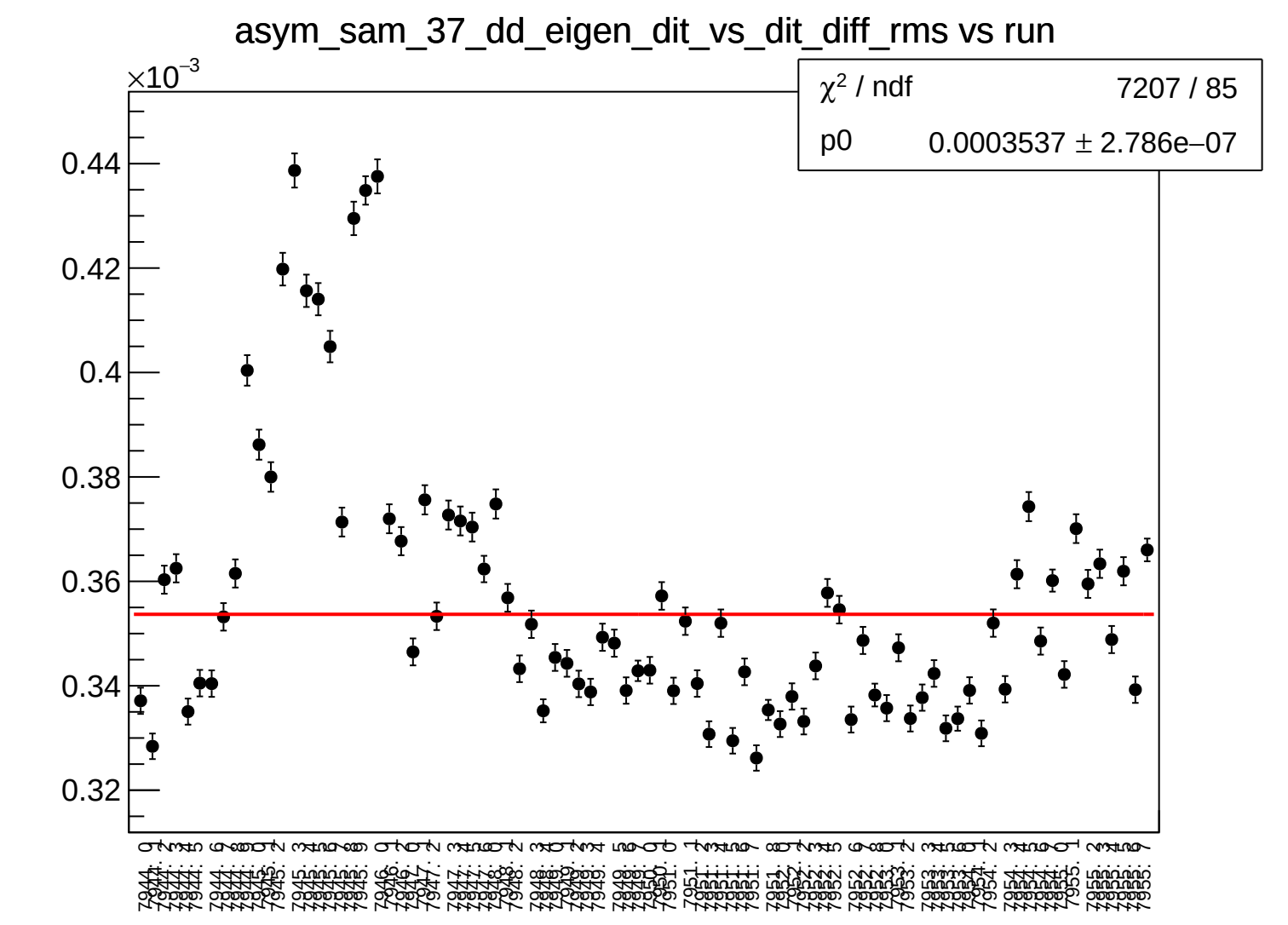

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.01 / 85
p0 −0.06163 ± 0.03984
pull
Entries 86
Mean 143.6
Std Dev 0

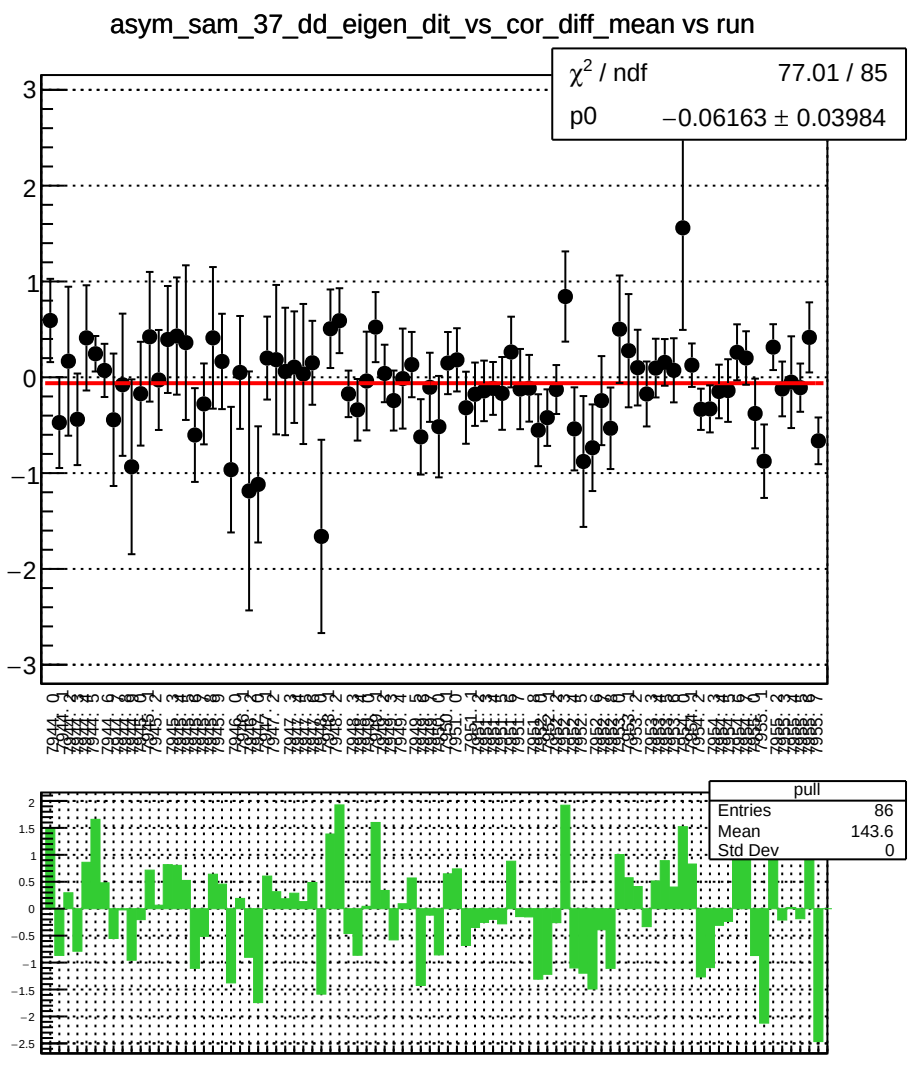

pull1D
Entries 86
Mean −0.02163
Std Dev 0.946

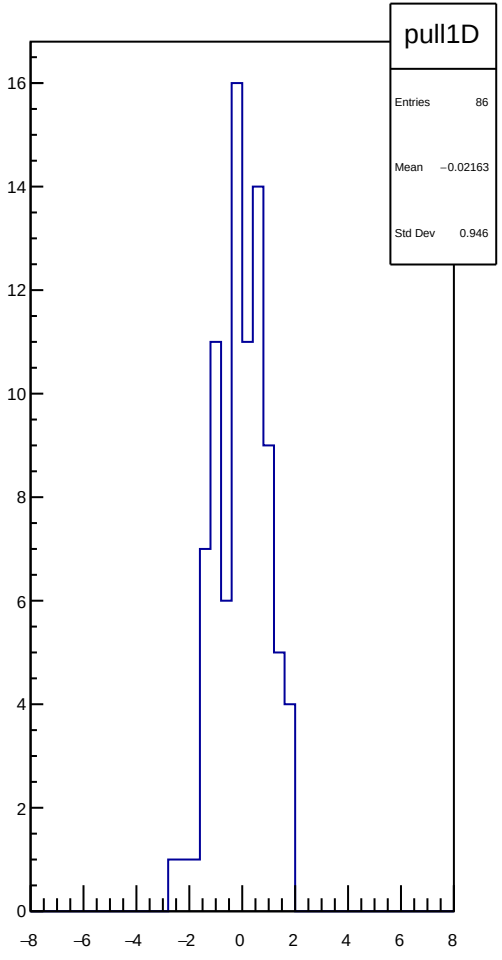

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.959e+05 / 85
p0 33.61 ± 0.02817
120
100
80
60
40
20

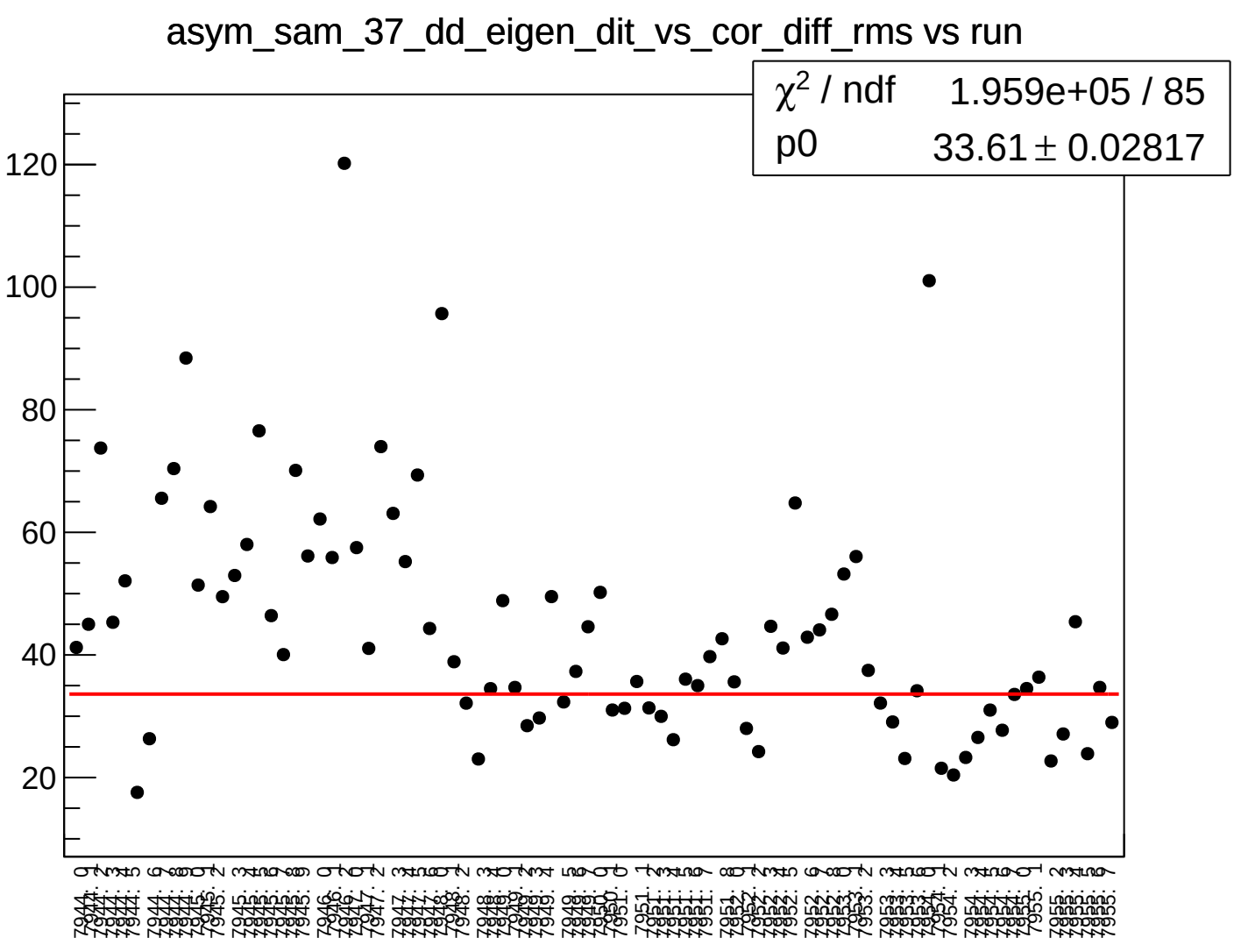

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 72.66 / 85
p0 −8.793e−07 ± 3.94e−07
pull
Entries 86
Mean −219.2
Std Dev 0

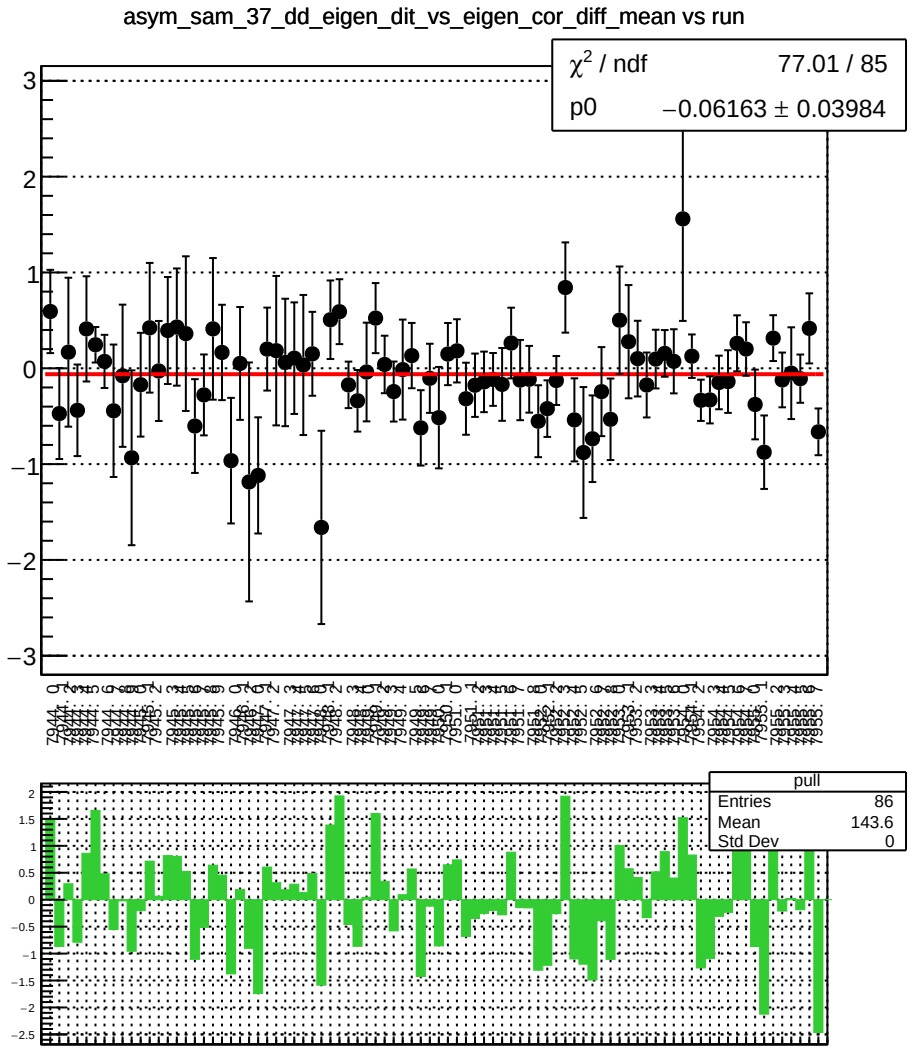

pull1D
Entries 86
Mean −0.02139
Std Dev 0.9189

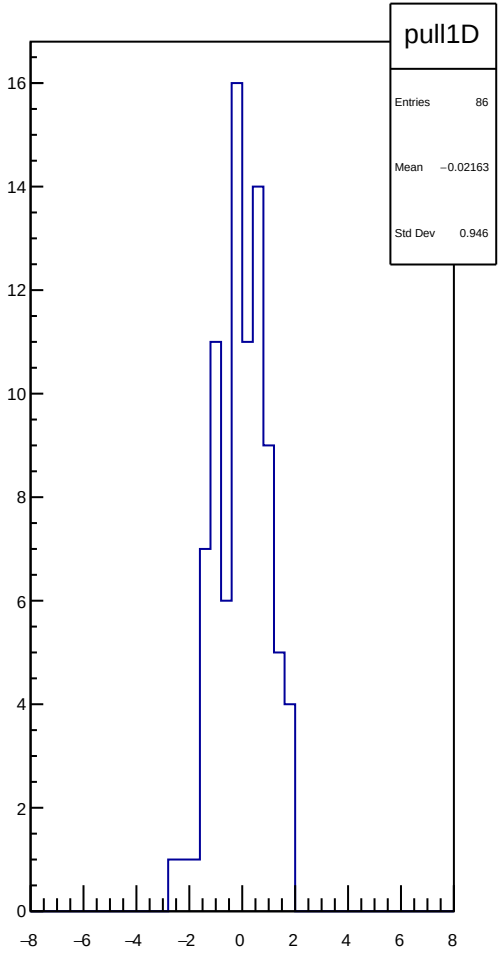

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 7207 / 85
p0 0.0003537 ± 2.786e−07
0.44
0.42
0.4
0.38
0.36
0.34
0.32

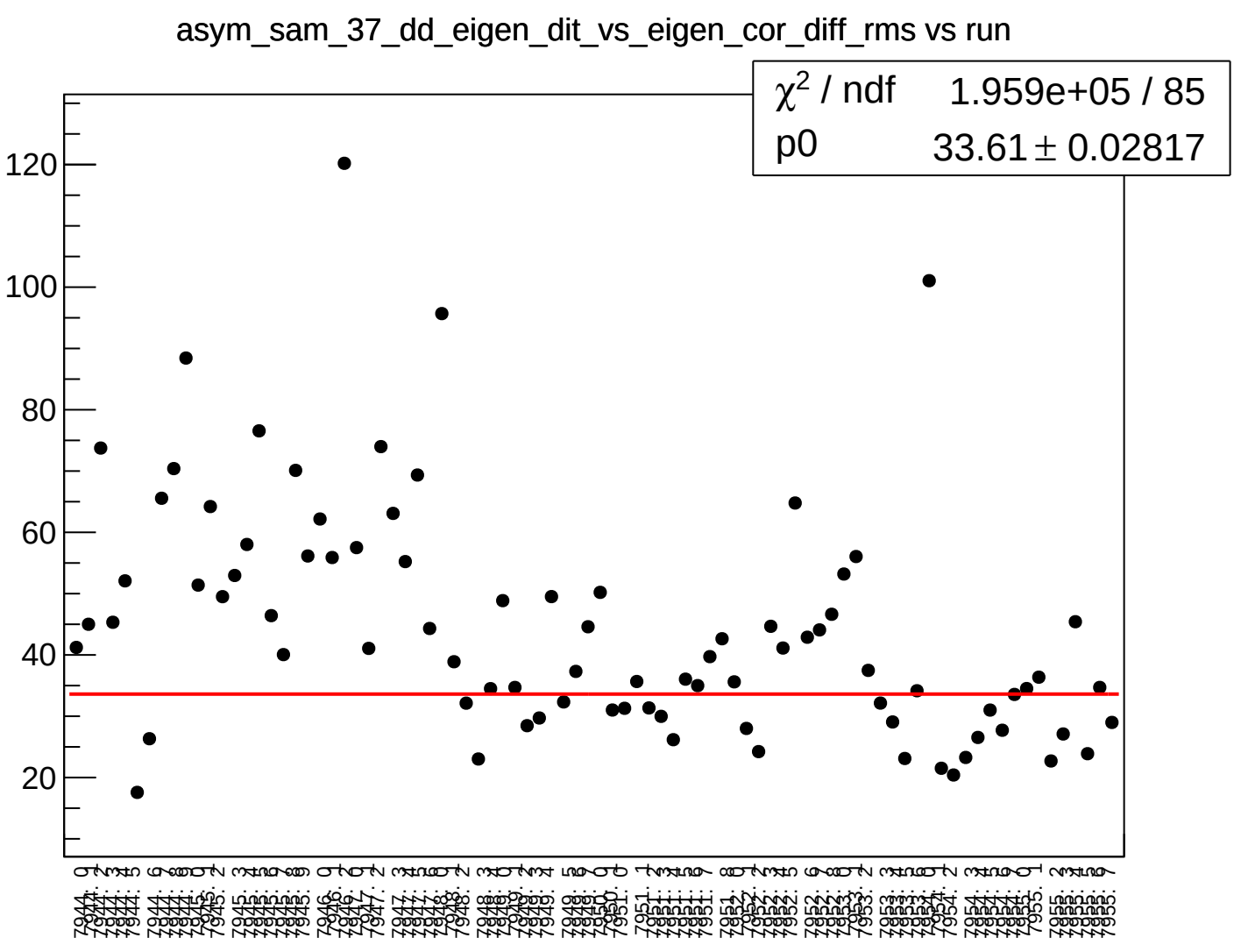

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.01 / 85
p0 −0.06163 ± 0.03984
pull
Entries 86
Mean 143.6
Std Dev 0

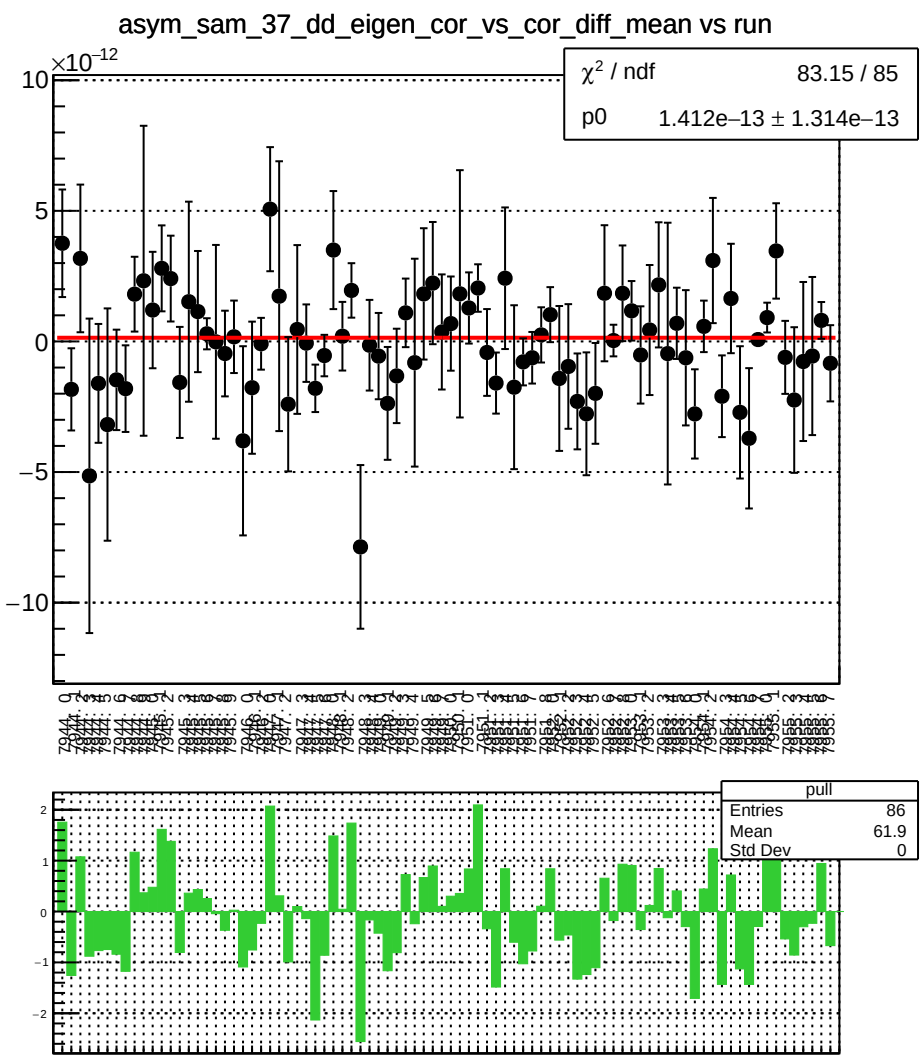

pull1D
Entries 86
Mean −0.02163
Std Dev 0.946

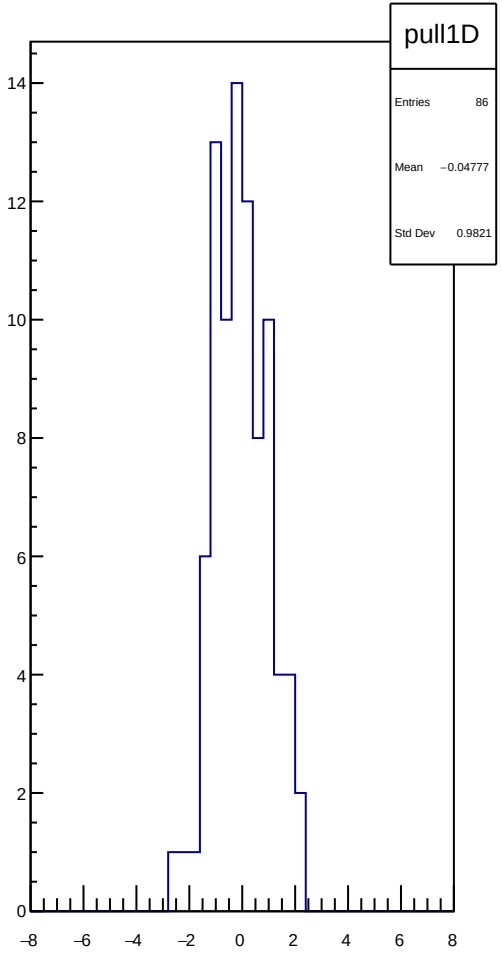

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.959e+05 / 85
p0 33.61 ± 0.02817
120
100
80
60
40
20

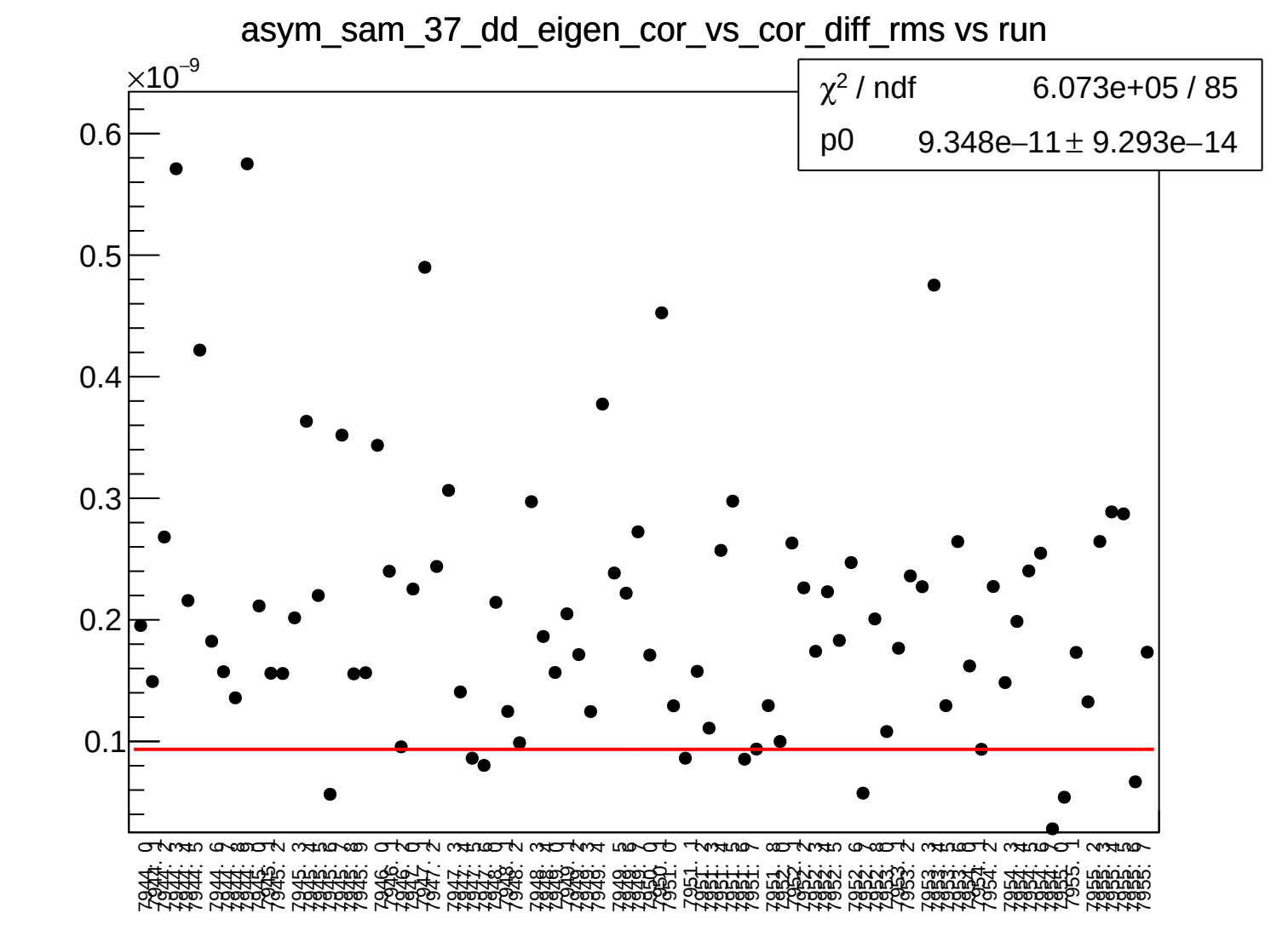

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.01 / 85
p0 −0.06163 ± 0.03984
pull
Entries 86
Mean 143.6
Std Dev 0

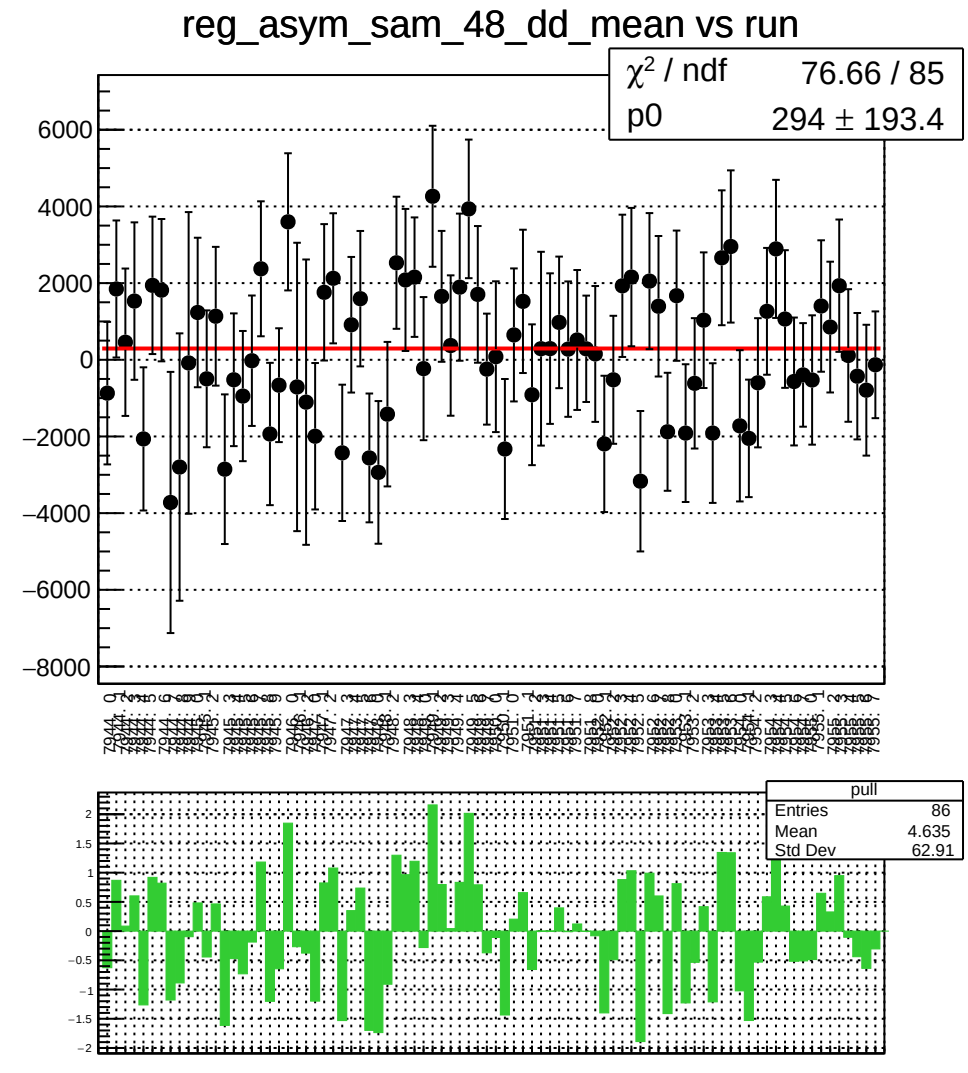

pull1D
Entries 86
Mean −0.02163
Std Dev 0.946

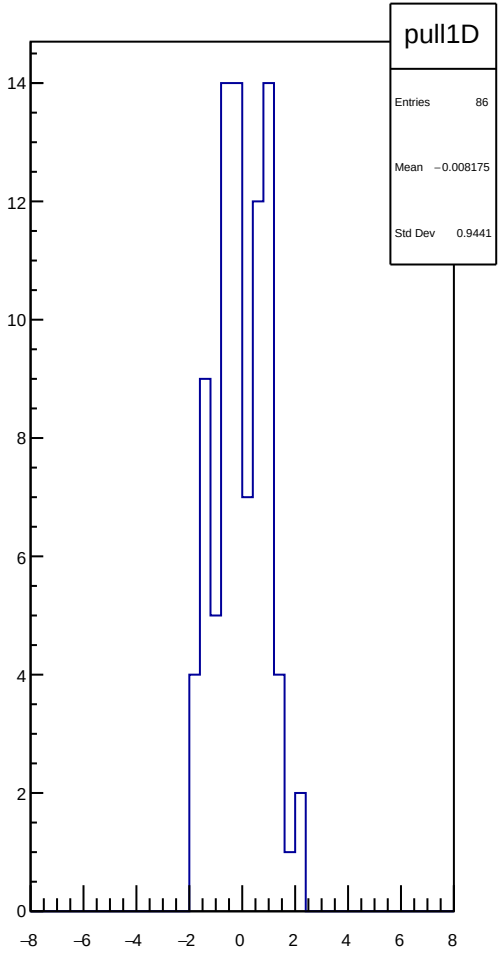

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.959e+05 / 85
p0 33.61 ± 0.02817
120
100
80
60
40
20

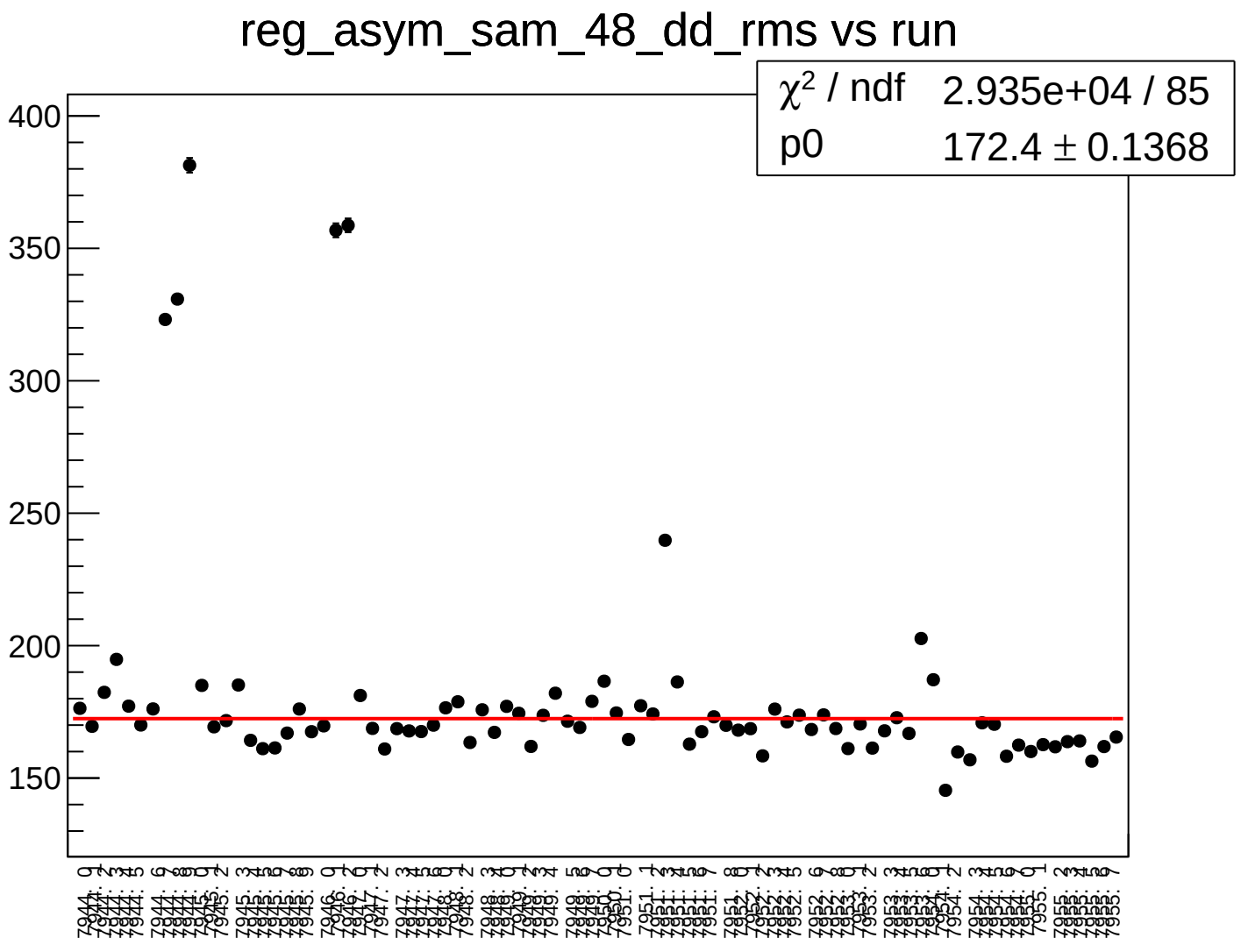

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.15 / 85
p0 1.412e−13 ± 1.314e−13
pull
Entries 86
Mean 61.9
Std Dev 0

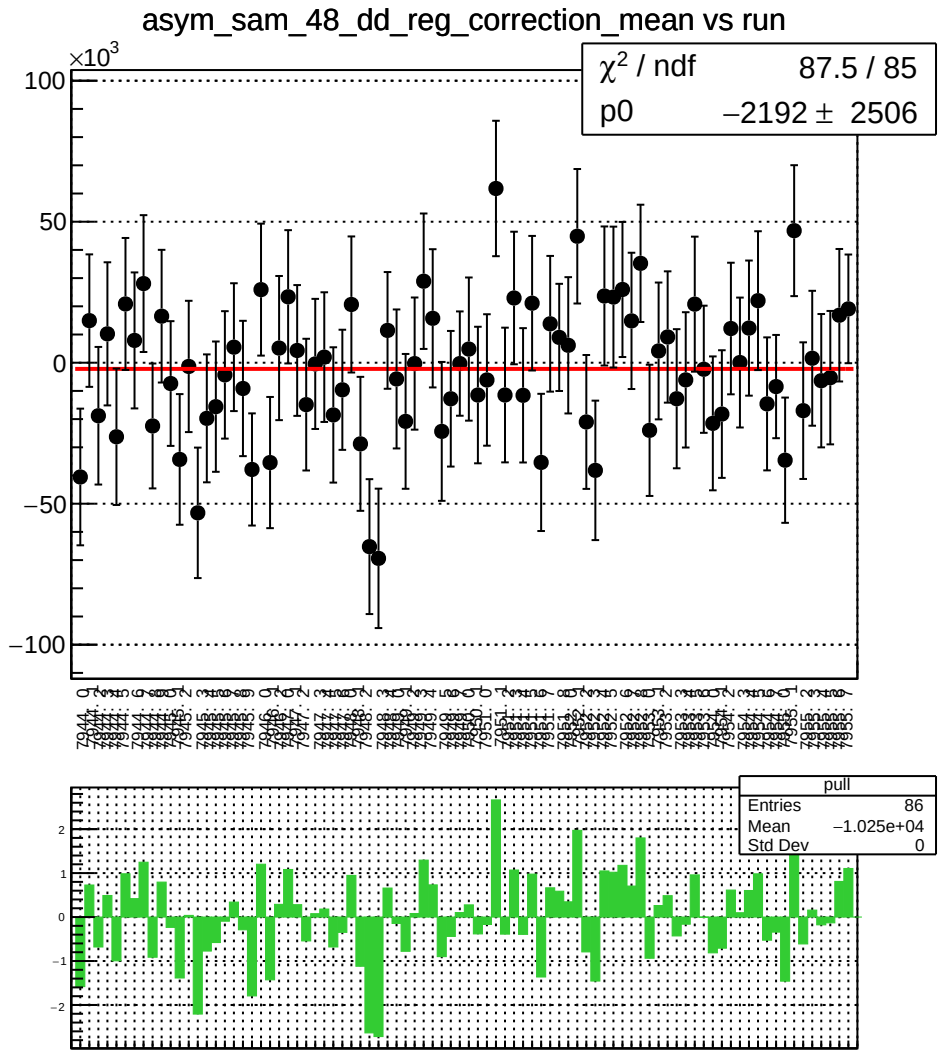

pull1D
Entries 86
Mean −0.04777
Std Dev 0.9821

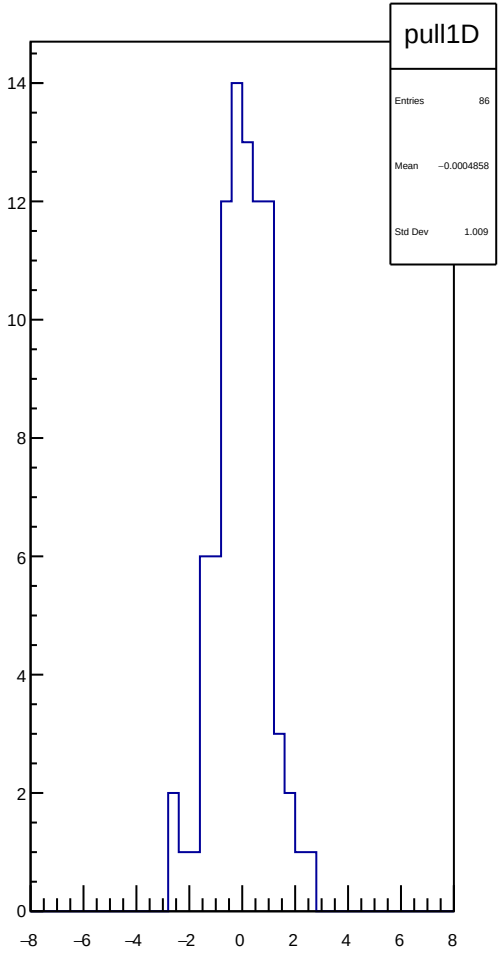

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.073e+05 / 85
p0 9.348e−11 ± 9.293e−14
0.6
0.5
0.4
0.3
0.2
0.1

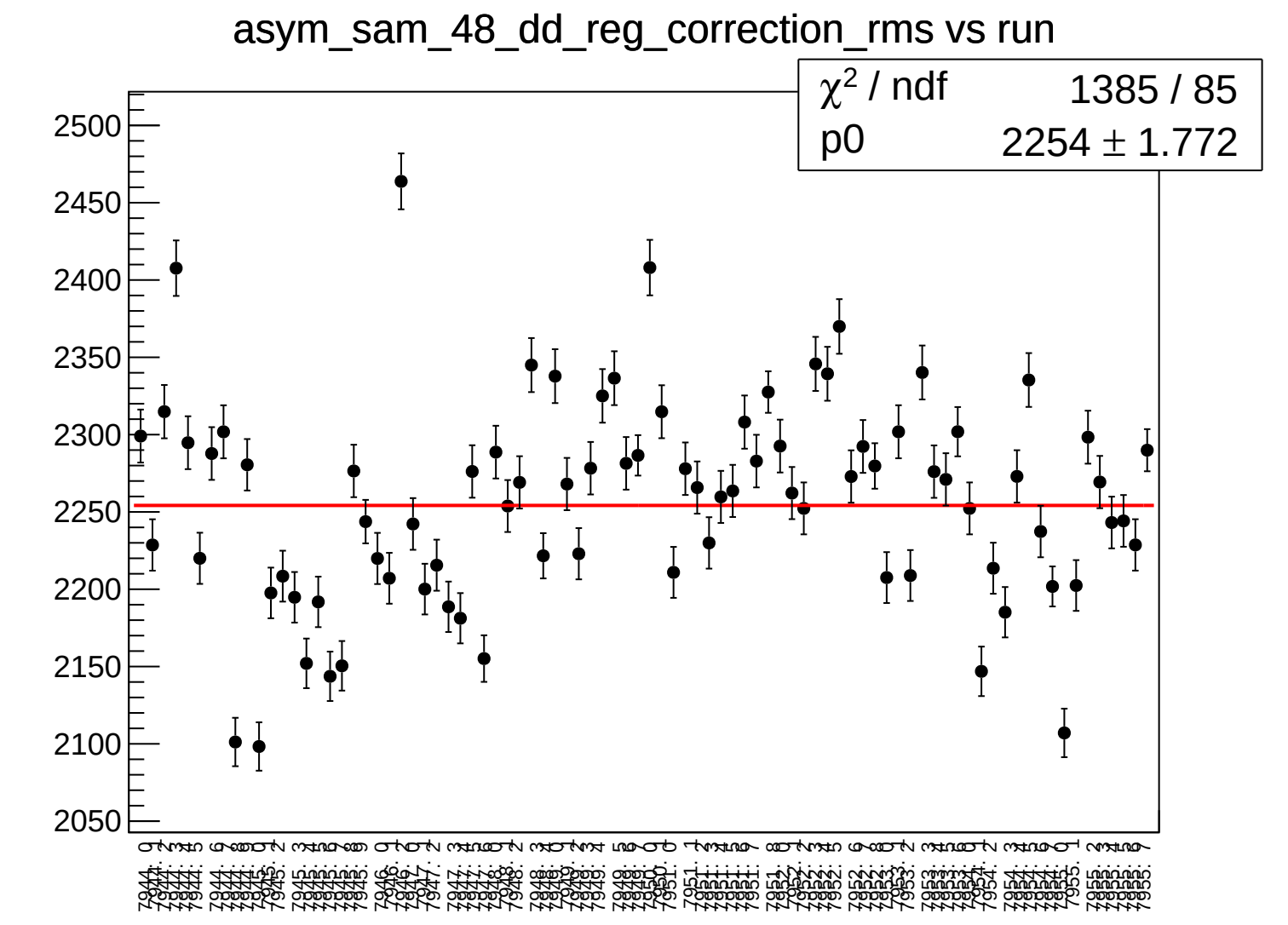

reg_asym_sam_48_dd_mean vs run
χ² / ndf 76.66 / 85
p0 294 ± 193.4
pull
Entries 86
Mean 4.635
Std Dev 62.91

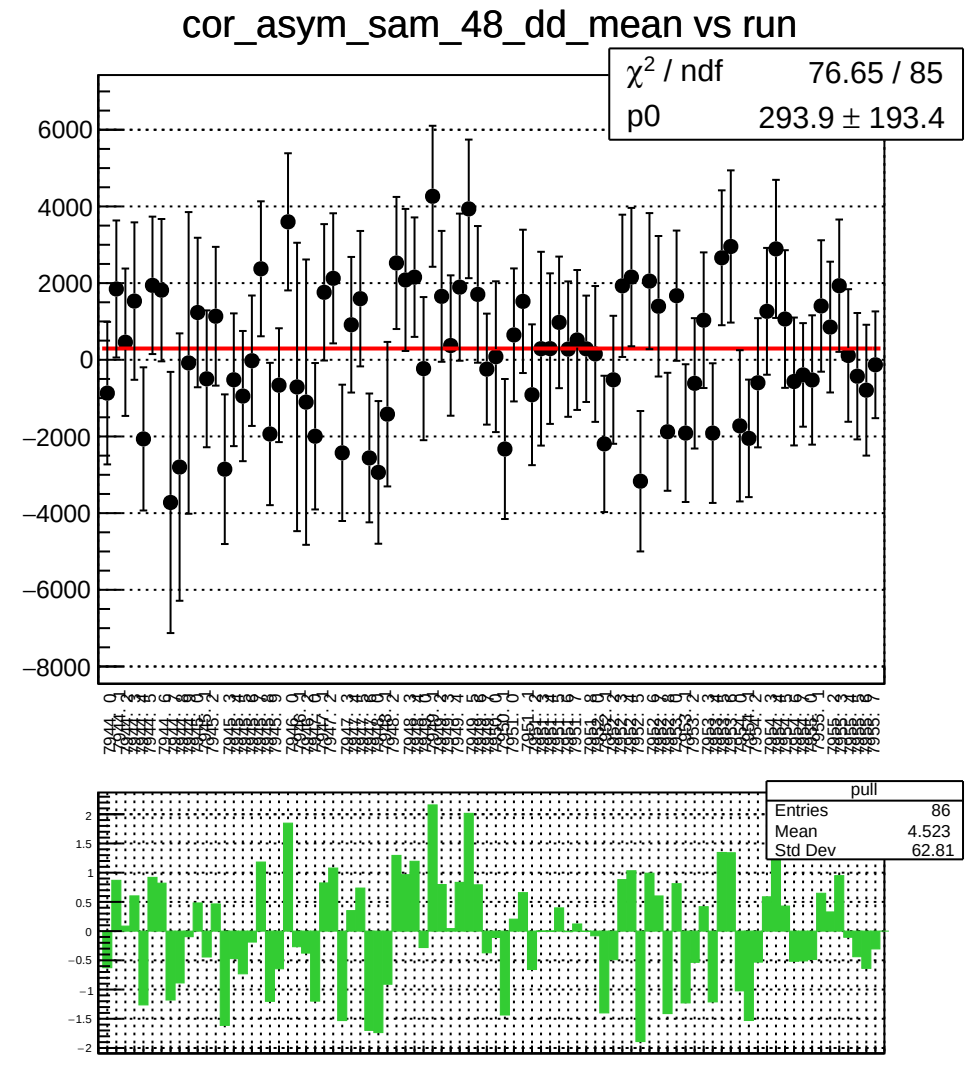

pull1D
Entries 86
Mean −0.008175
Std Dev 0.9441

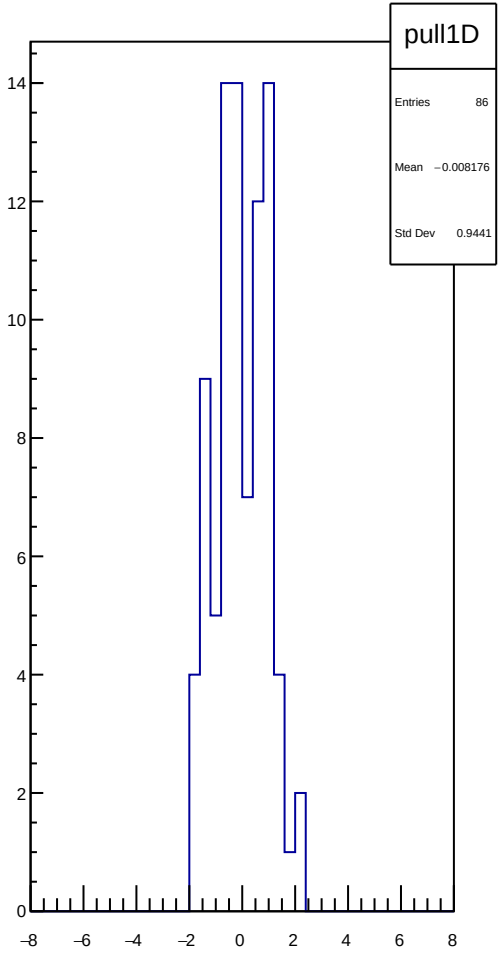

reg_asym_sam_48_dd_rms vs run
χ² / ndf 2.935e+04 / 85
p0 172.4 ± 0.1368
400
350
300
250
200
150

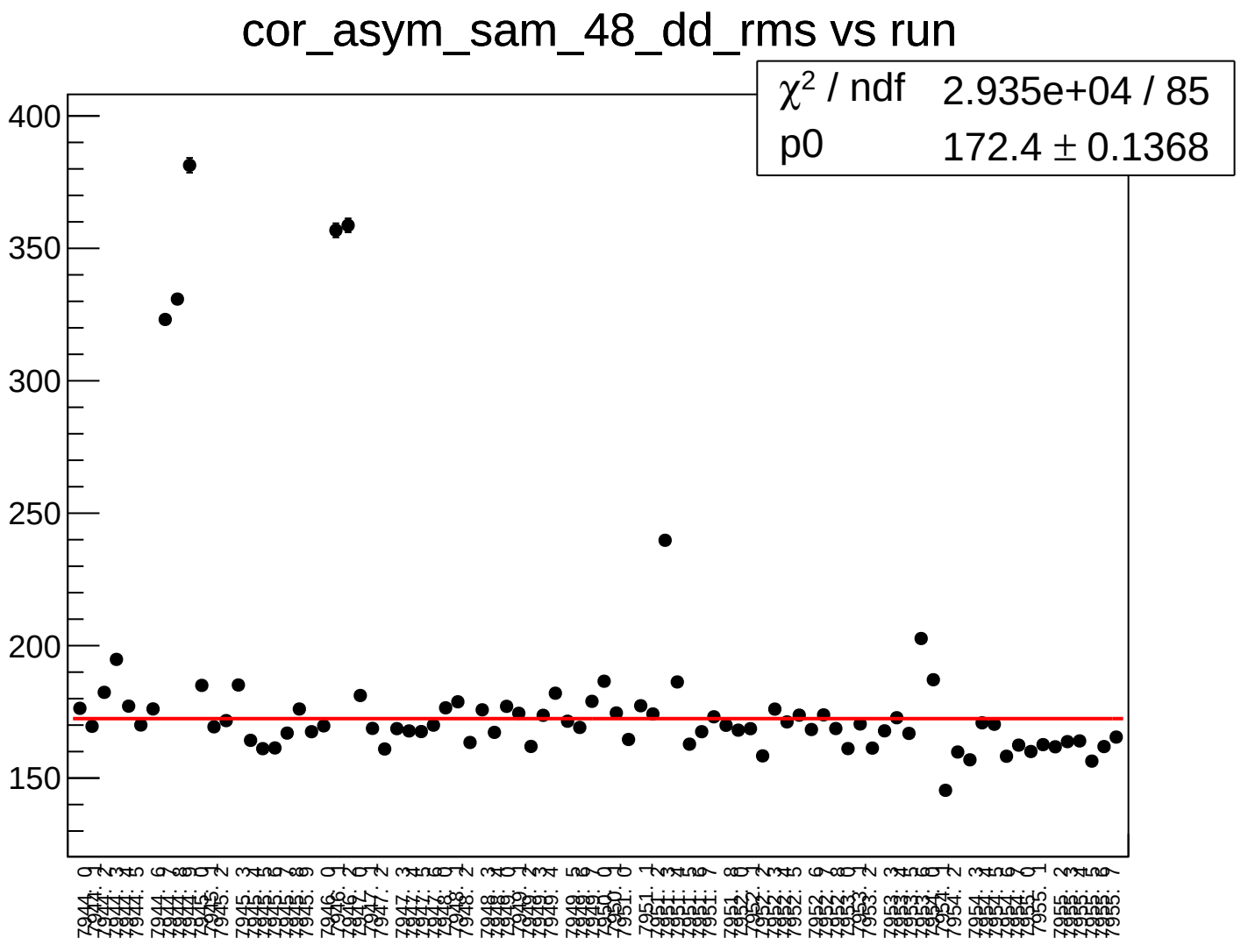

asym_sam_48_dd_reg_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 87.5 / 85
p0 −2192 ± 2506
pull
Entries 86
Mean −1.025e+04
Std Dev 0
2
1
0
−1
−2

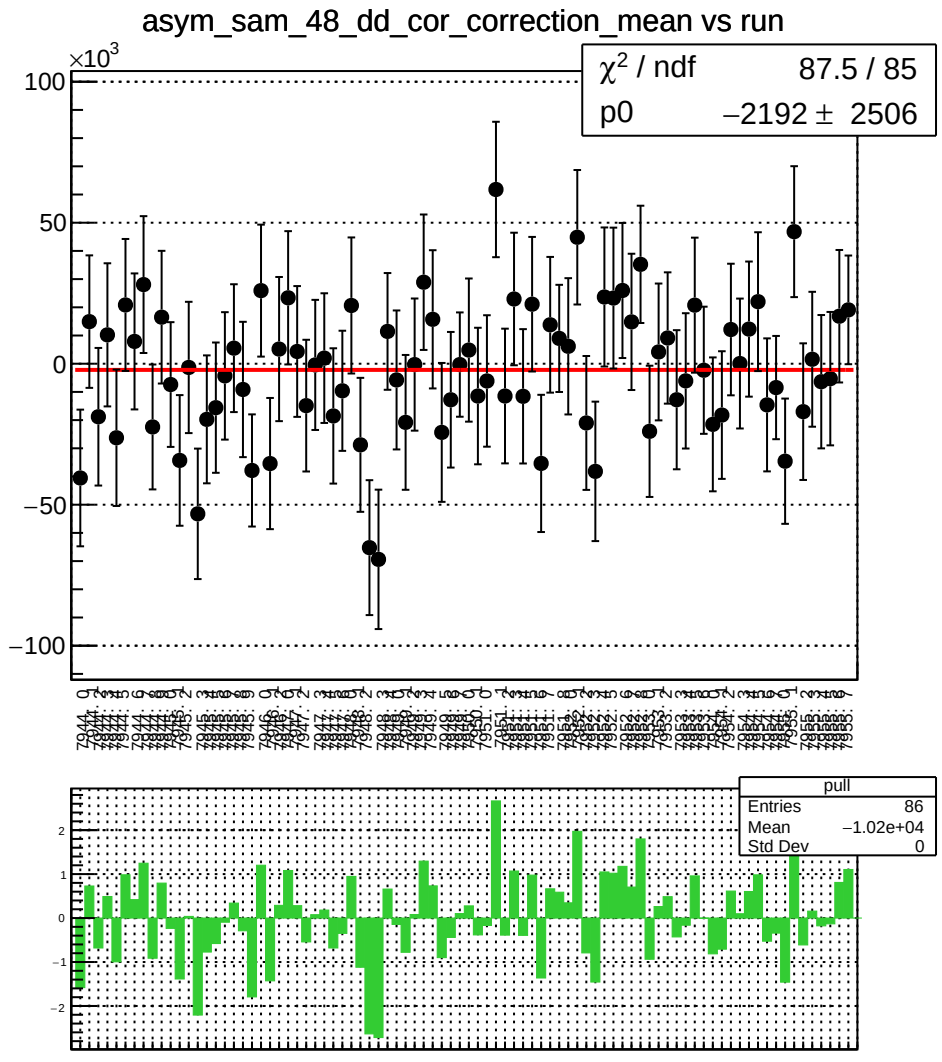

pull1D
Entries 86
Mean −0.0004858
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

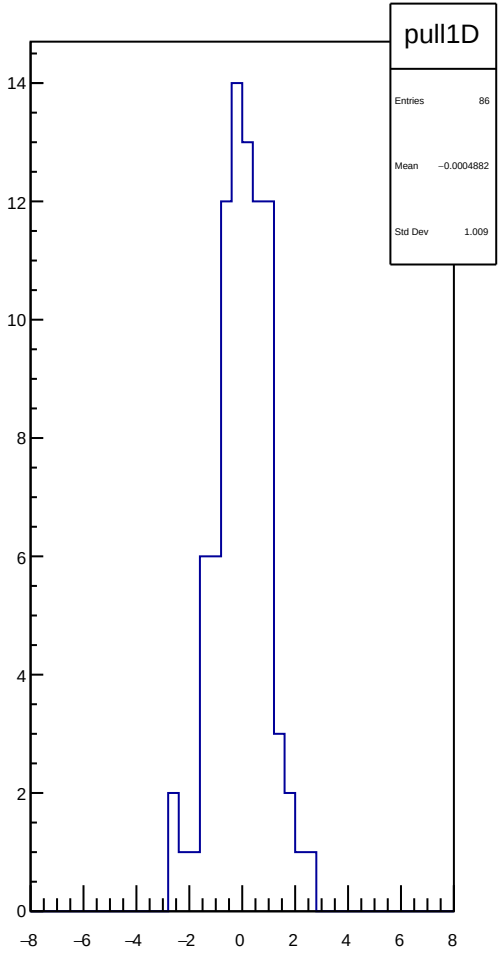

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1385 / 85
p0 2254 ± 1.772
2500
2450
2400
2350
2300
2250
2200
2150
2100
2050

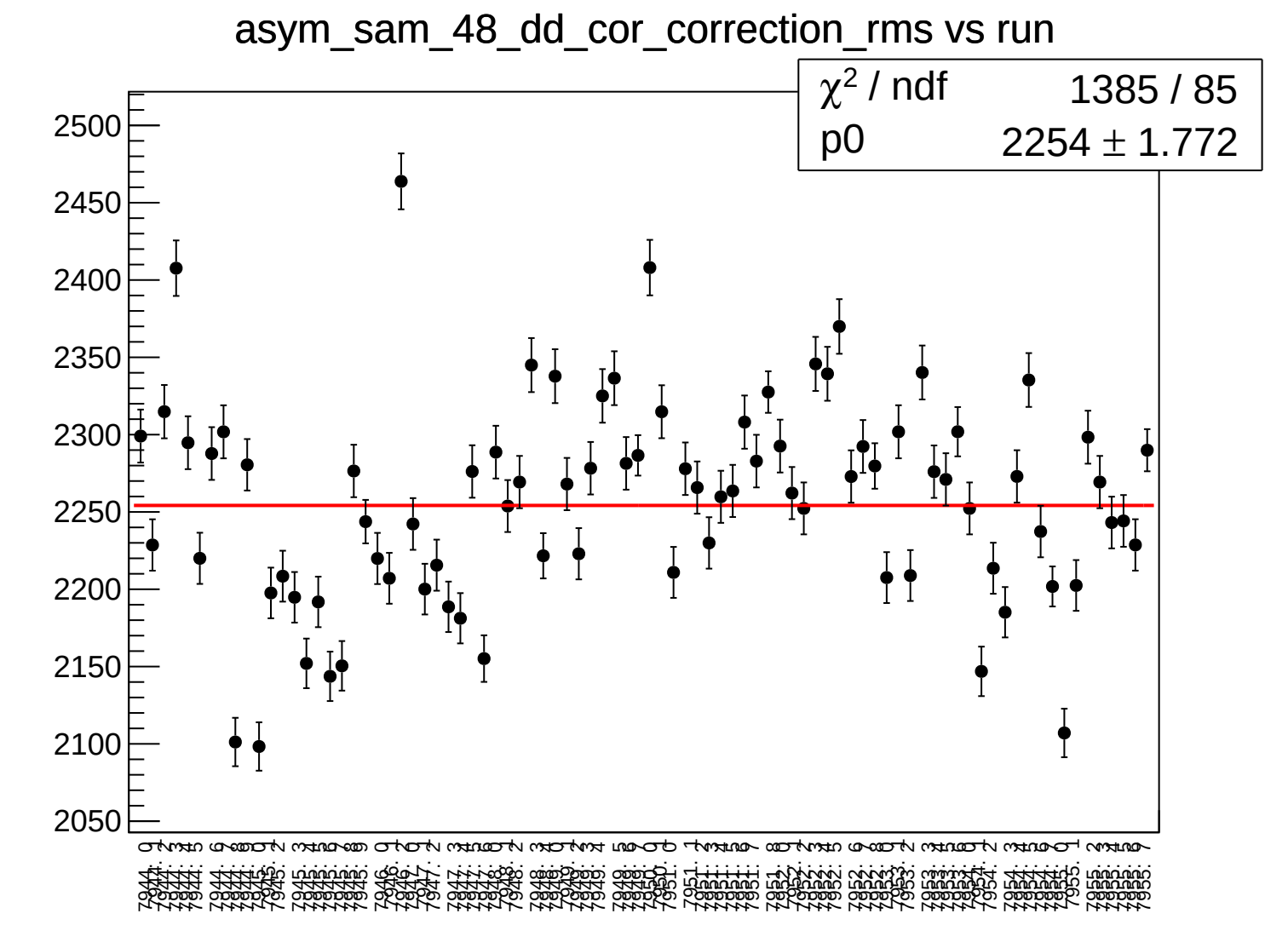

cor_asym_sam_48_dd_mean vs run
χ² / ndf 76.65 / 85
p0 293.9 ± 193.4
pull
Entries 86
Mean 4.523
Std Dev 62.81

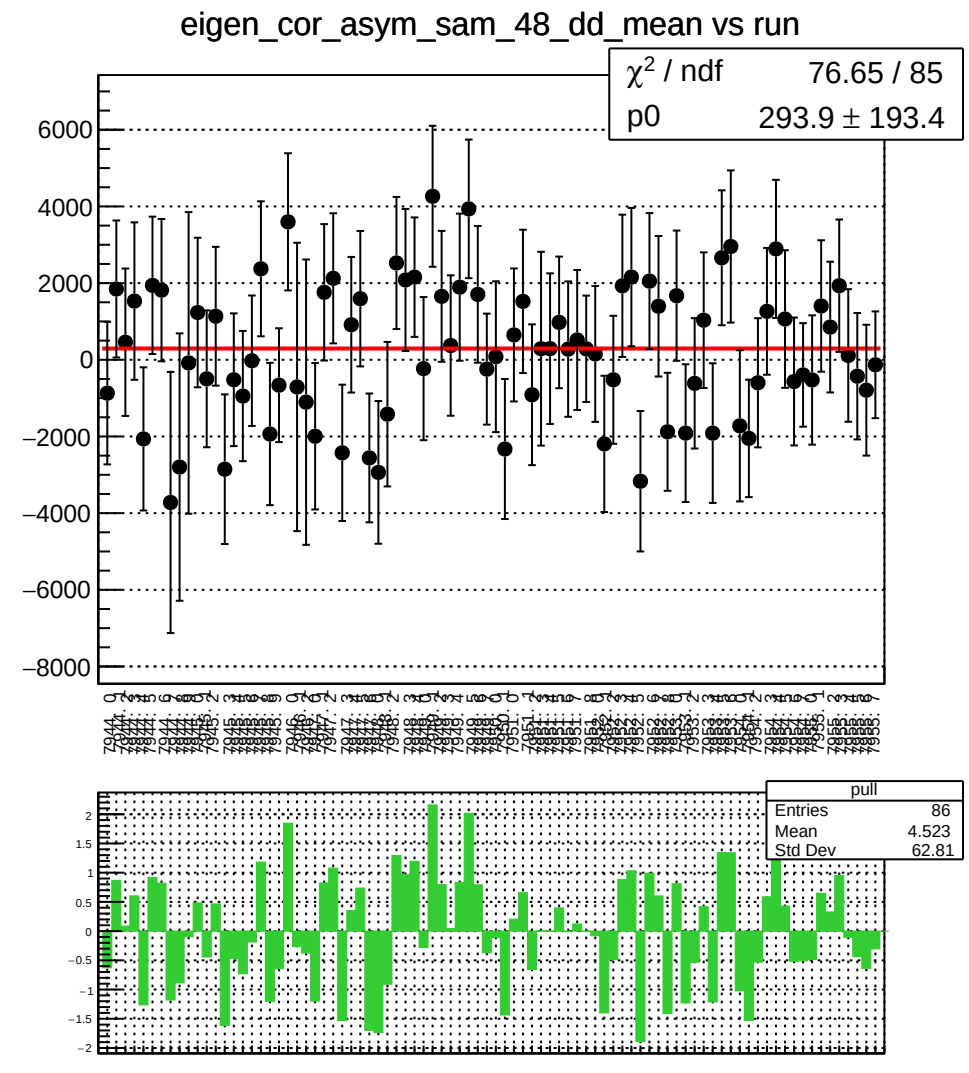

pull1D
Entries 86
Mean −0.008176
Std Dev 0.9441

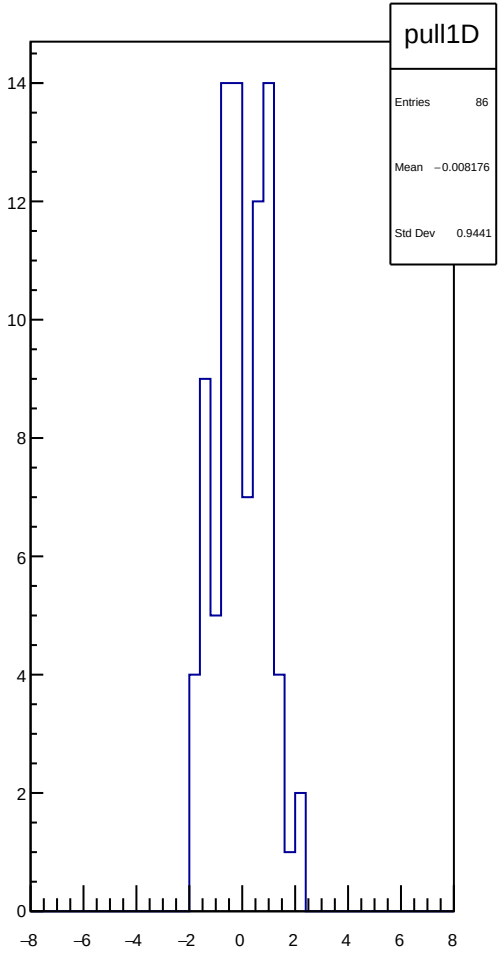

cor_asym_sam_48_dd_rms vs run
χ² / ndf 2.935e+04 / 85
p0 172.4 ± 0.1368
400
350
300
250
200
150

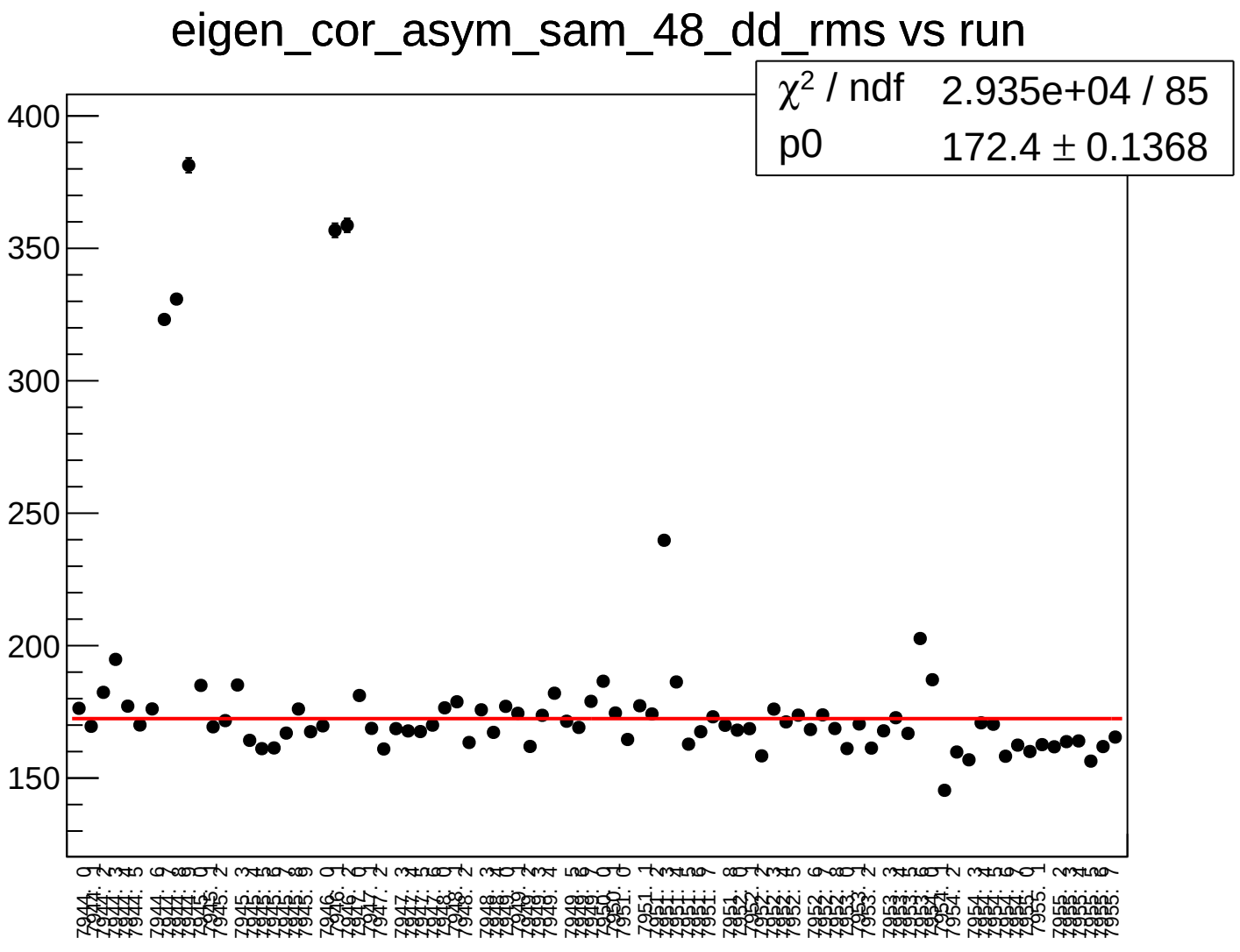

asym_sam_48_dd_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 87.5 / 85
p0 −2192 ± 2506
pull
Entries 86
Mean −1.02e+04
Std Dev 0
2
1
0
−1
−2

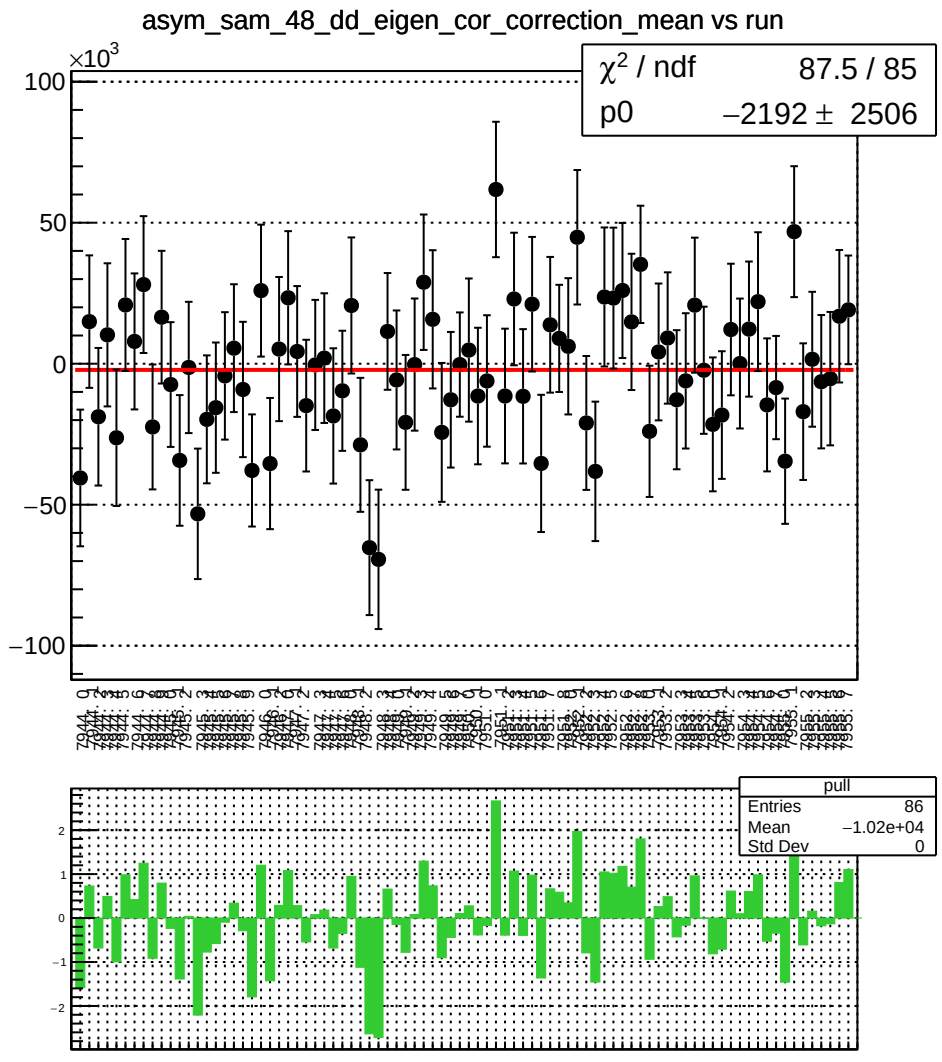

pull1D
Entries 86
Mean −0.0004882
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

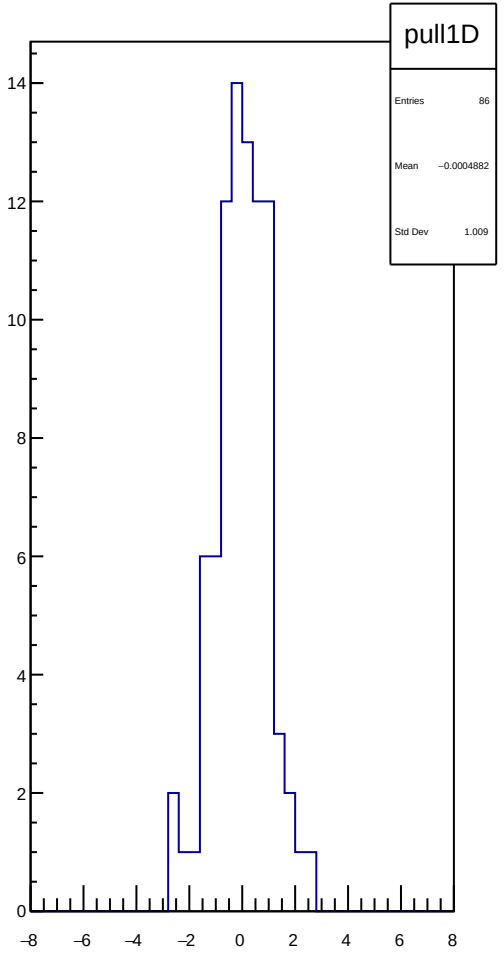

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1385 / 85
p0 2254 ± 1.772
2500
2450
2400
2350
2300
2250
2200
2150
2100
2050

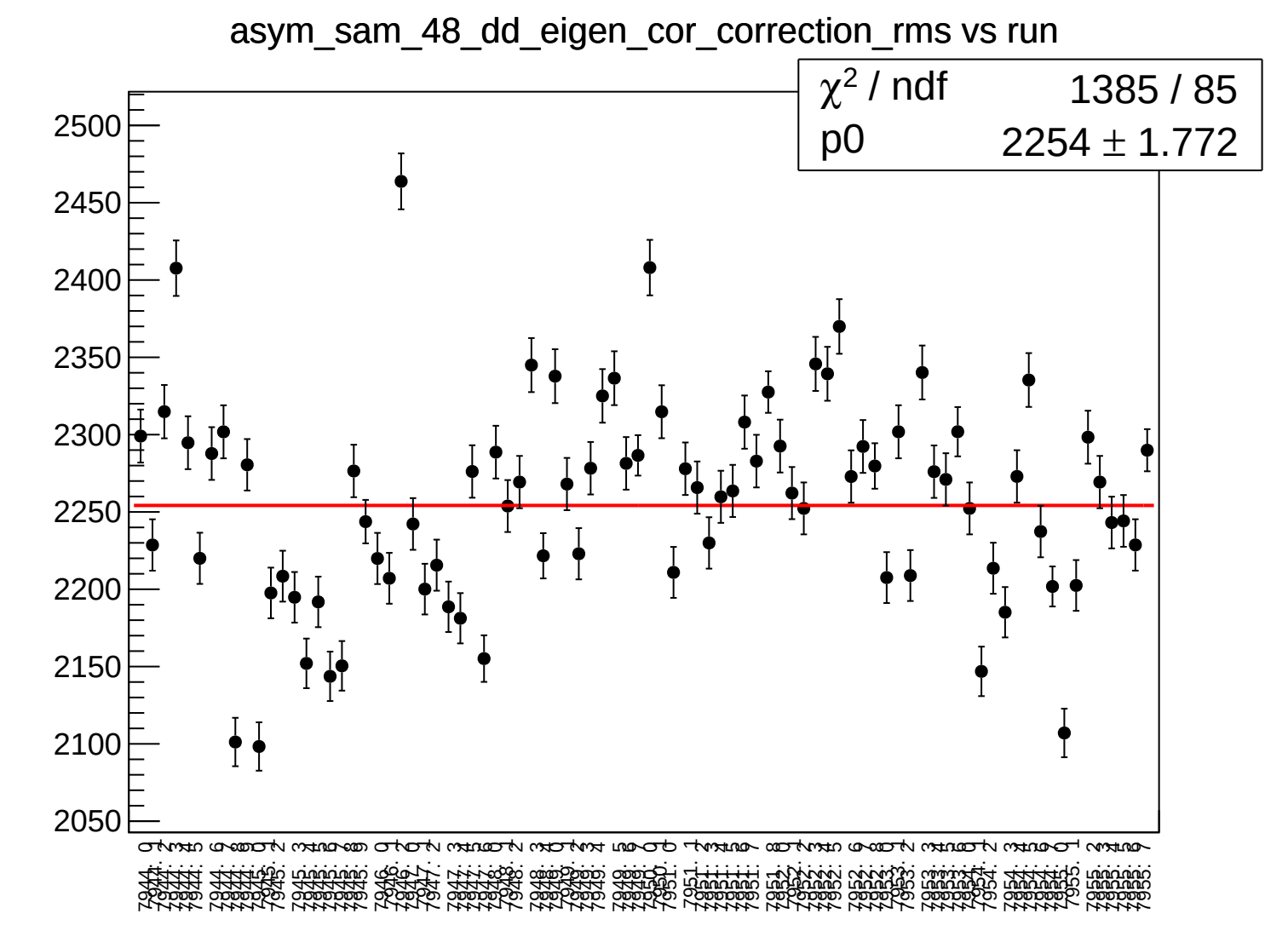

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 76.65 / 85
p0 293.9 ± 193.4
pull
Entries 86
Mean 4.523
Std Dev 62.81

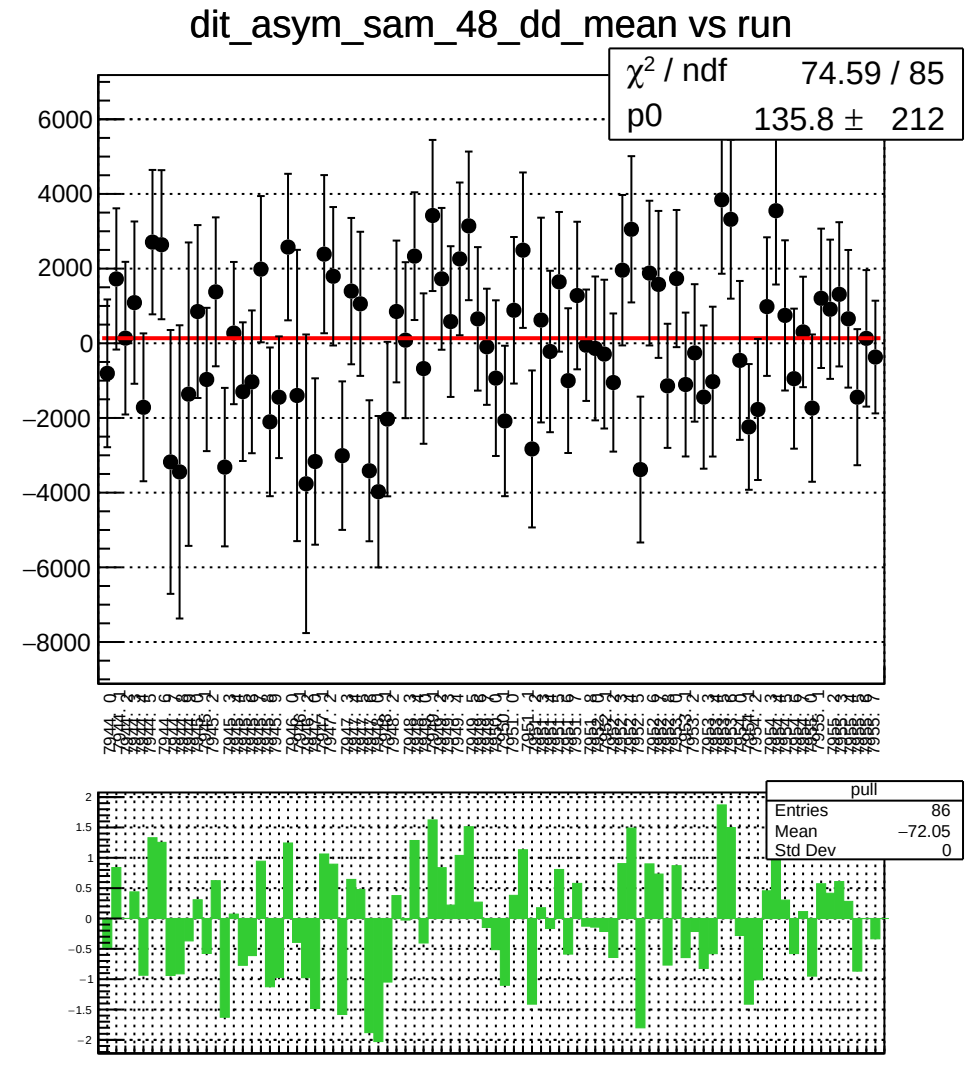

pull1D
Entries 86
Mean −0.008176
Std Dev 0.9441

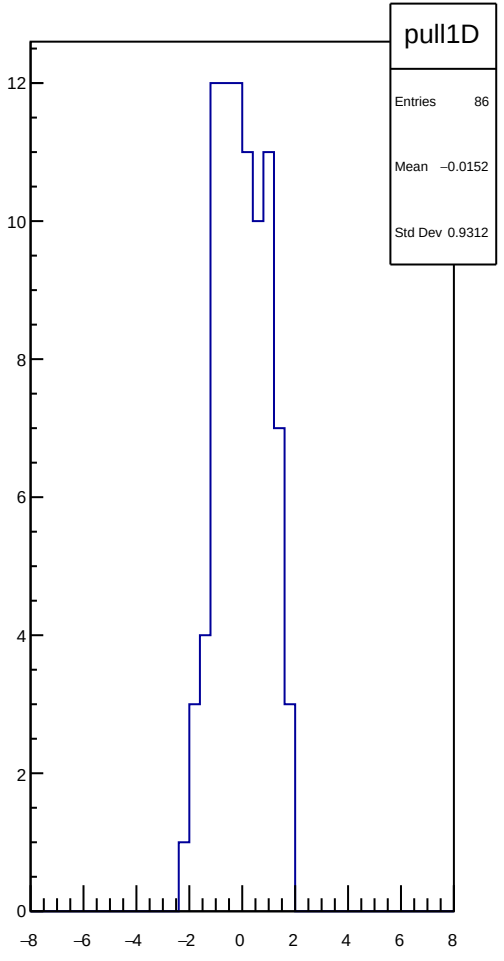

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 2.935e+04 / 85
p0 172.4 ± 0.1368
400
350
300
250
200
150

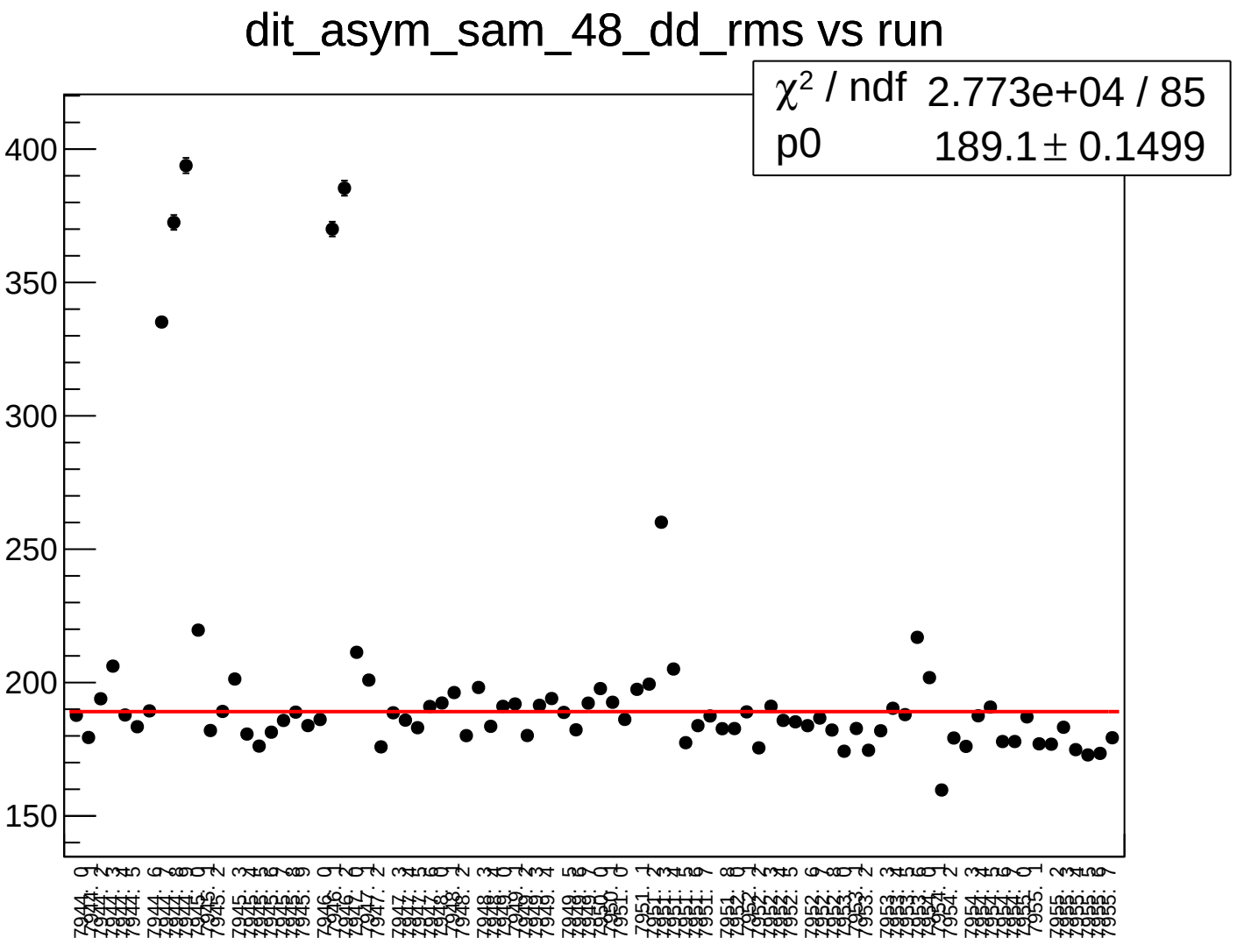

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 87.5 / 85
p0 −2192 ± 2506
pull
Entries 86
Mean −1.02e+04
Std Dev 0
2
1
0
−1
−2

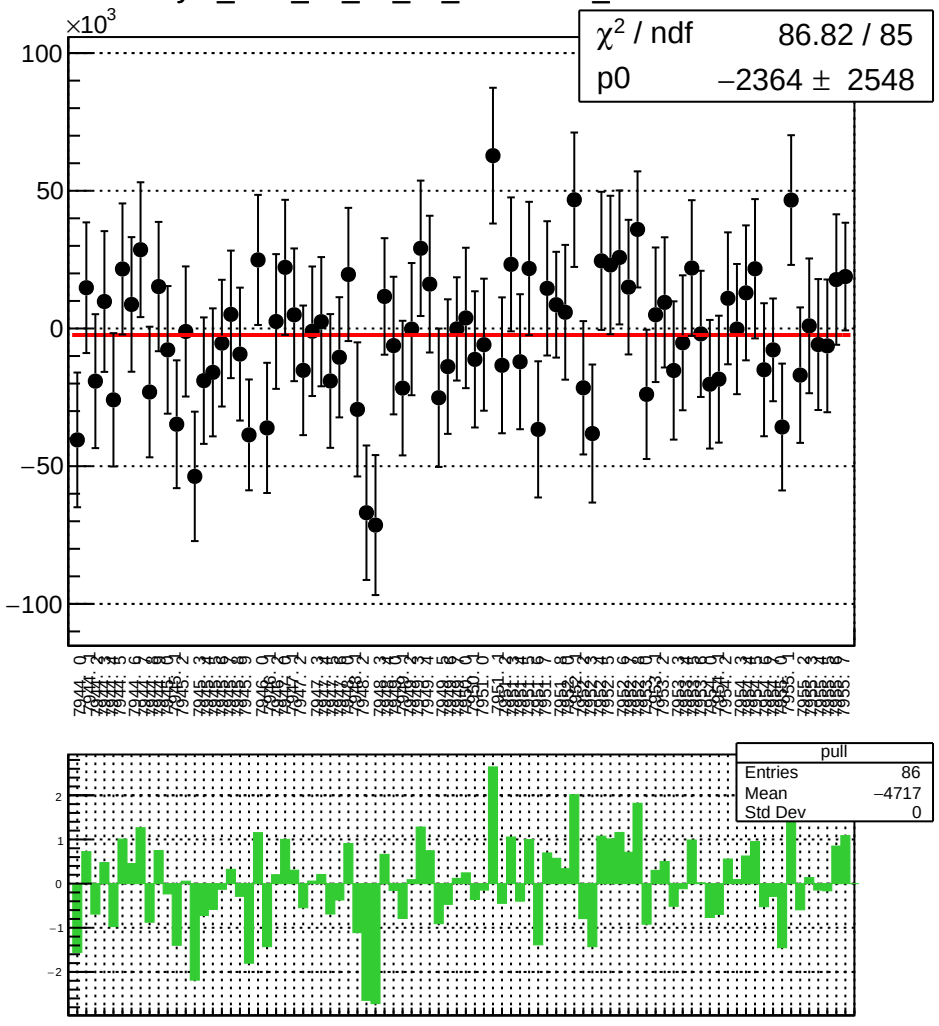

pull1D
Entries 86
Mean −0.0004882
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

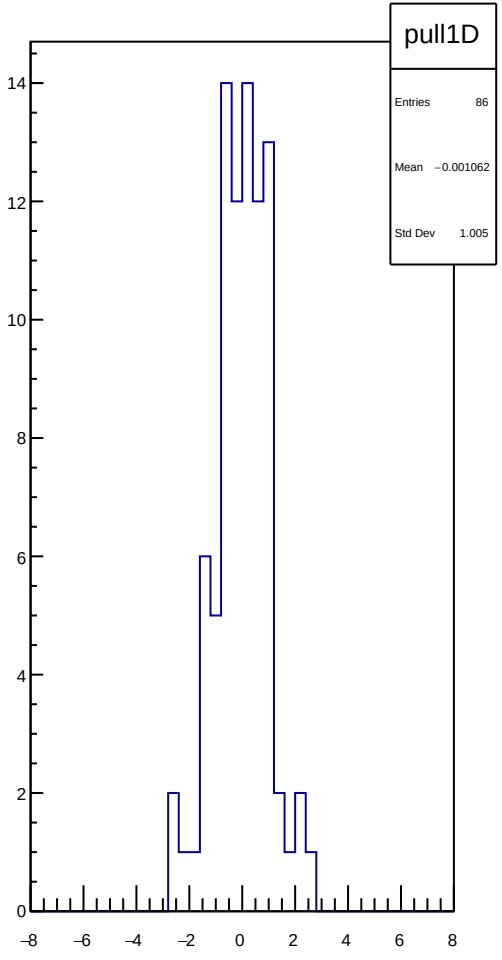

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1385 / 85
p0 2254 ± 1.772
2500
2450
2400
2350
2300
2250
2200
2150
2100
2050

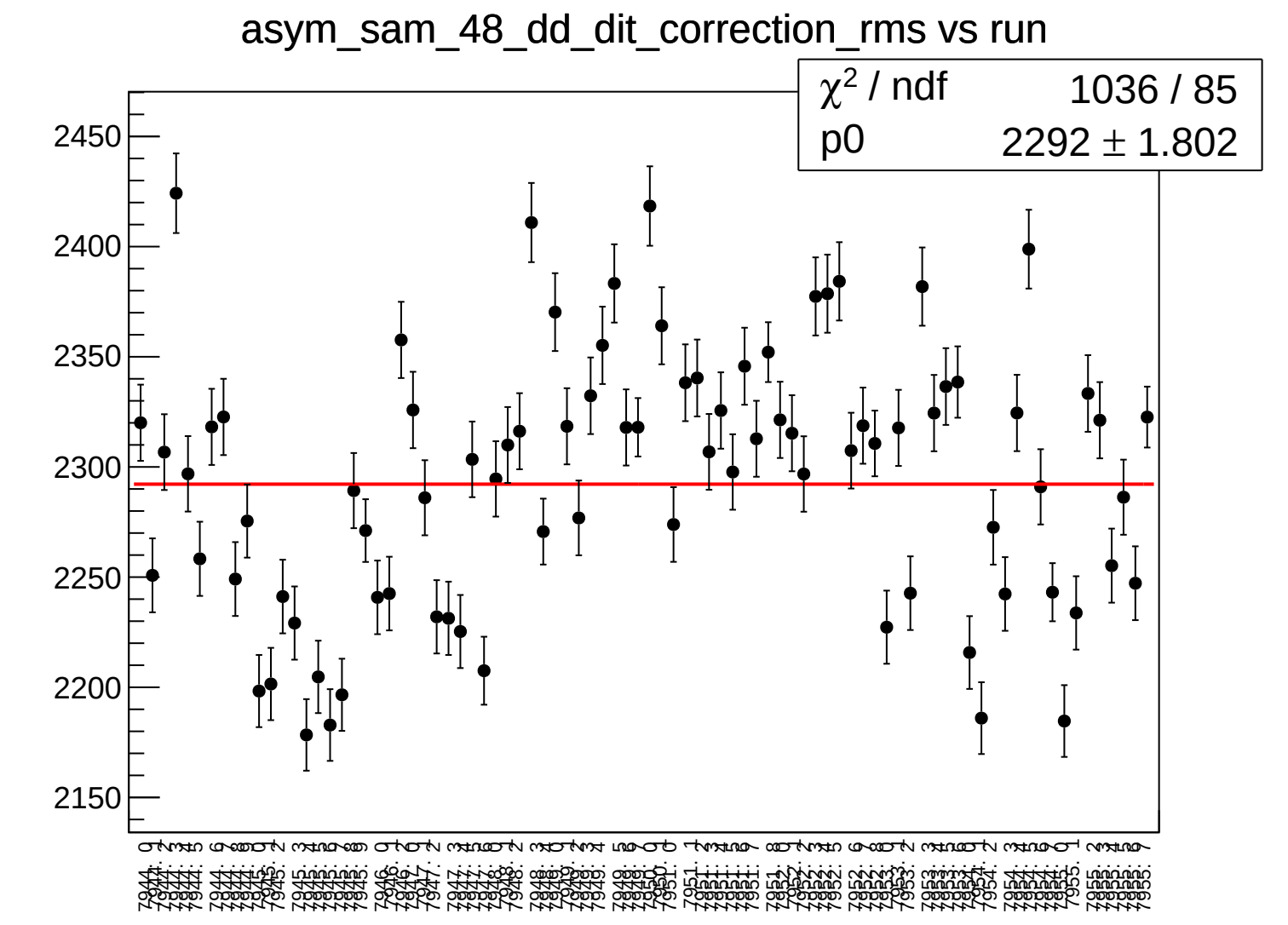

dit_asym_sam_48_dd_mean vs run
χ^2 / ndf 74.59 / 85
p0 135.8 ± 212
pull
Entries 86
Mean −72.05
Std Dev 0

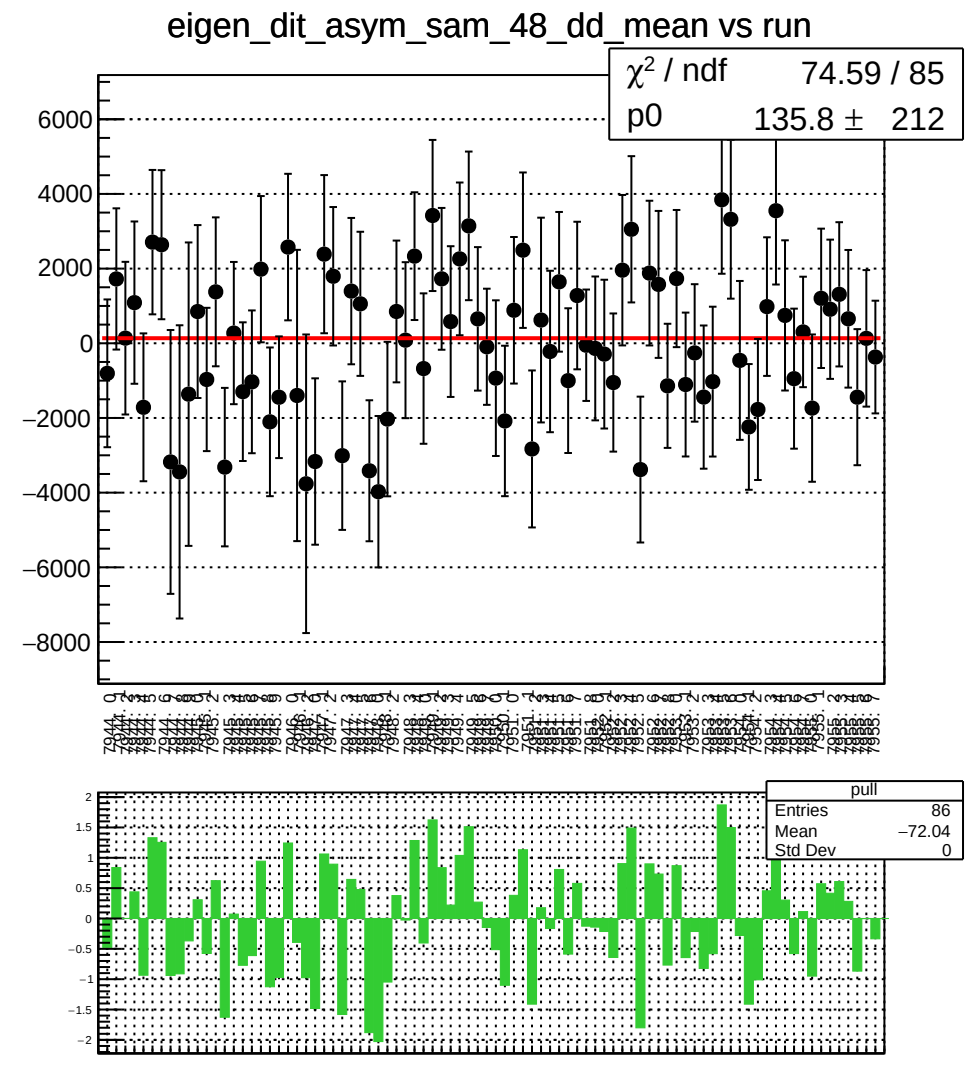

pull1D
Entries 86
Mean −0.0152
Std Dev 0.9312

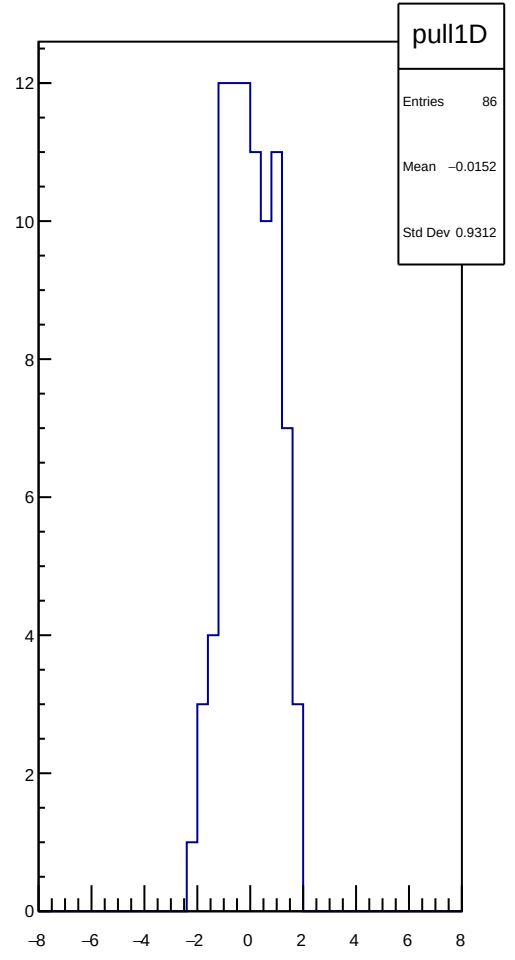

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2.773e+04 / 85
p0 189.1 ± 0.1499
400
350
300
250
200
150

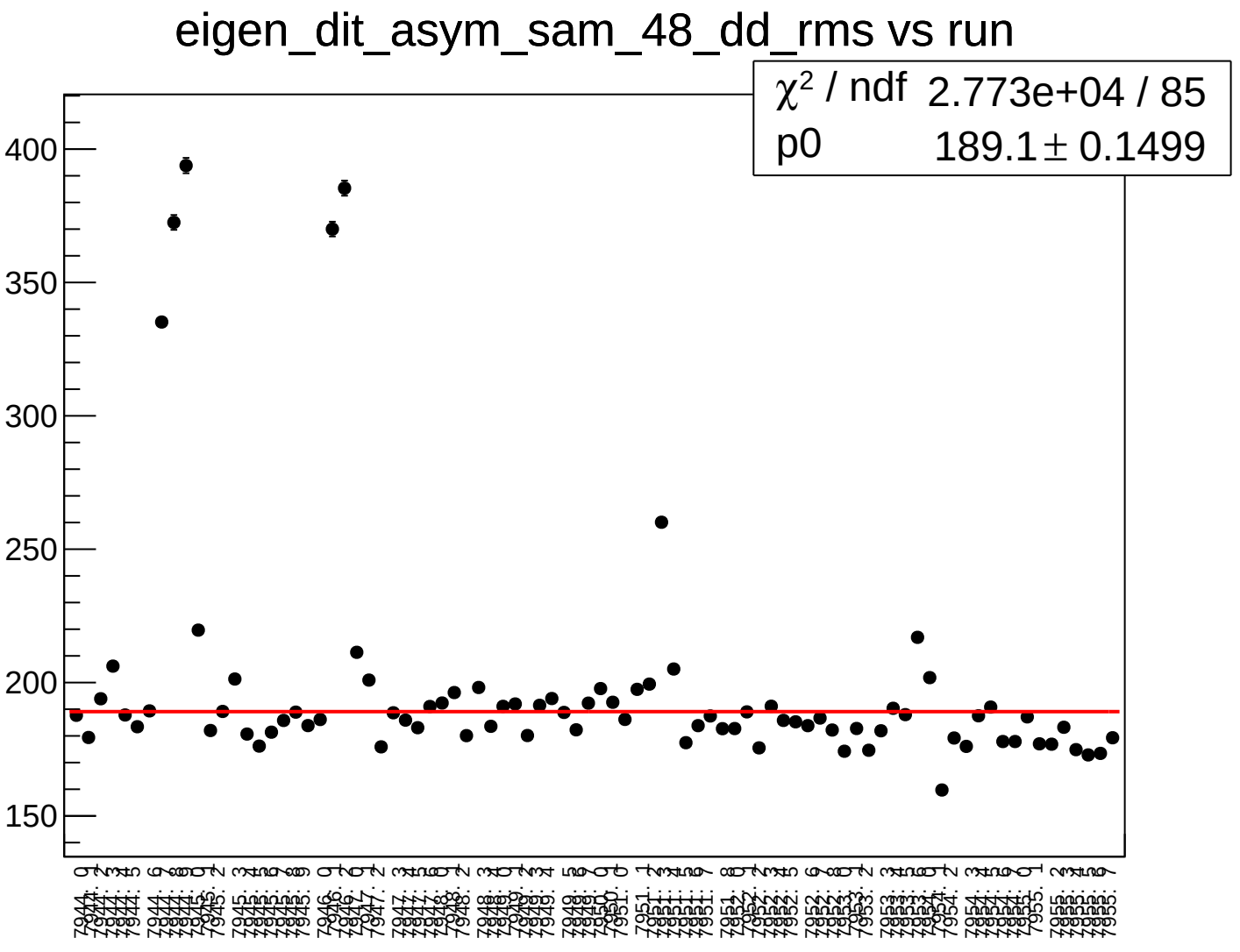

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.82 / 85
p0 −2364 ± 2548
pull
Entries 86
Mean −4717
Std Dev 0

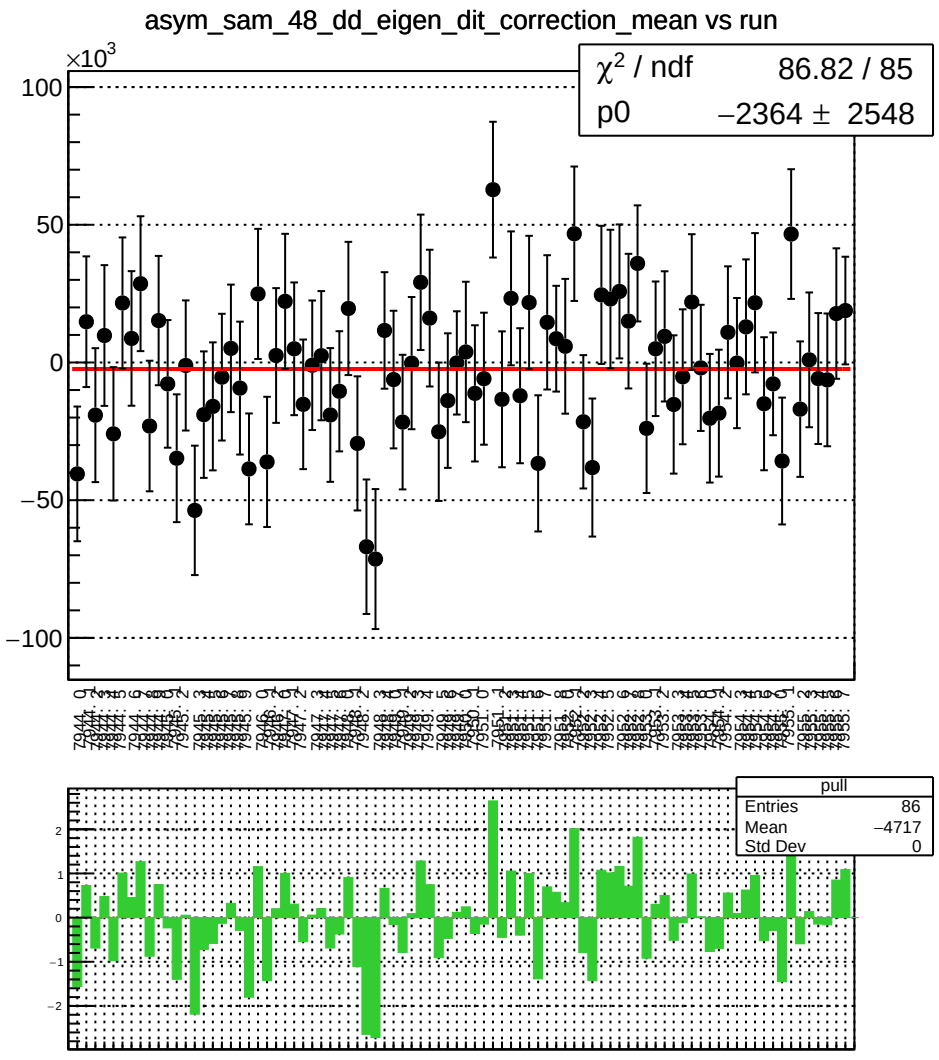

pull1D
Entries 86
Mean −0.001062
Std Dev 1.005

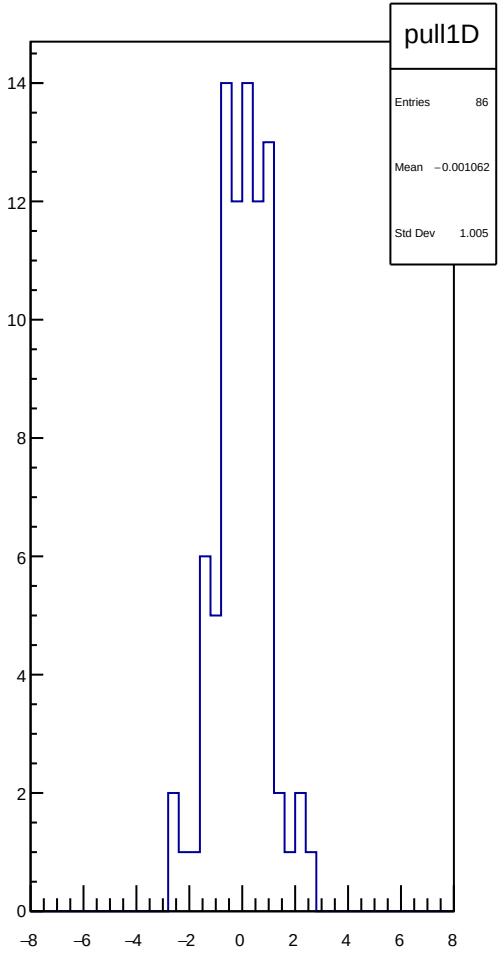

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1036 / 85
p0 2292 ± 1.802
2450
2400
2350
2300
2250
2200
2150

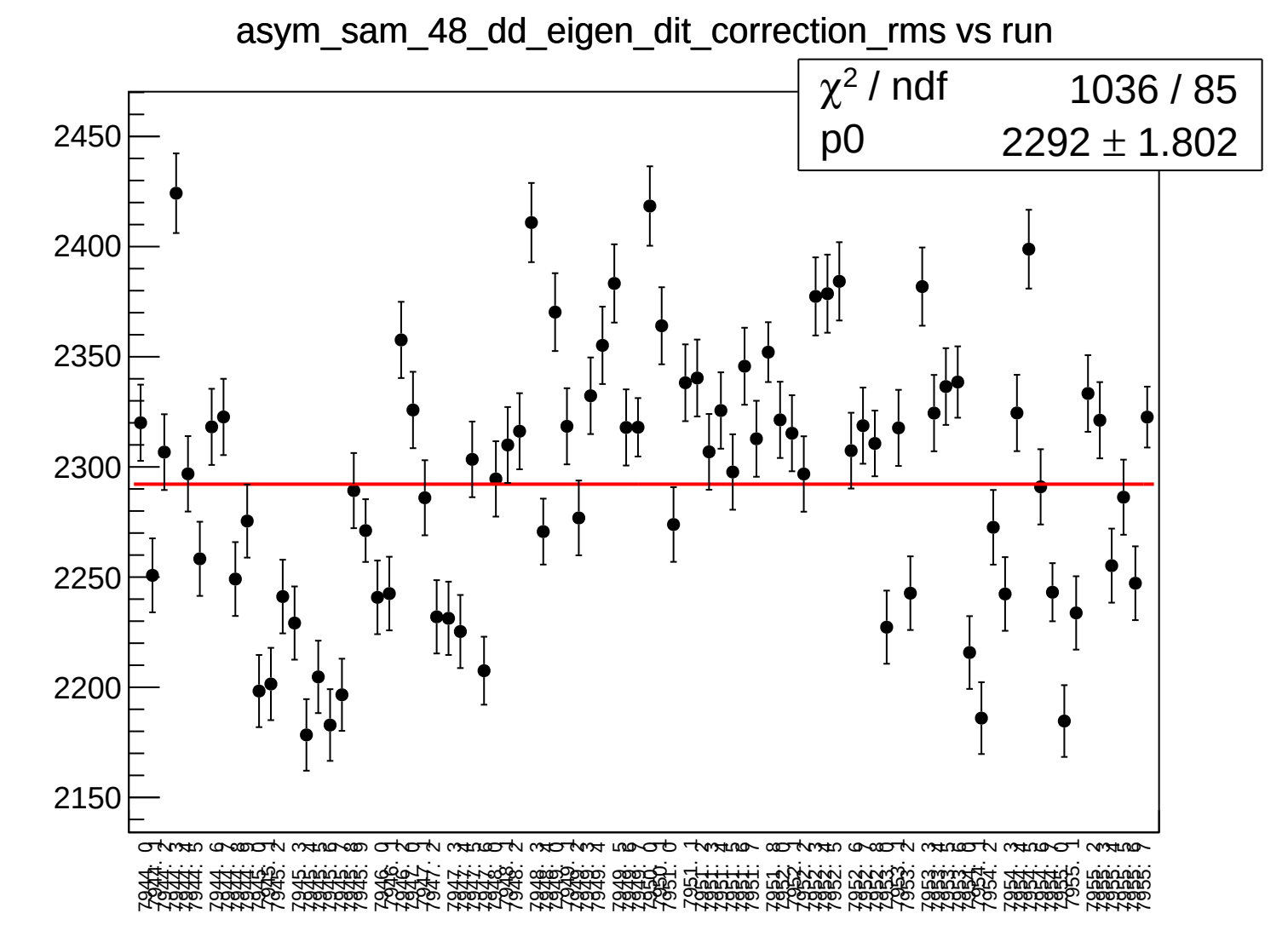

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 74.59 / 85
p0 135.8 ± 212
pull
Entries 86
Mean −72.04
Std Dev 0

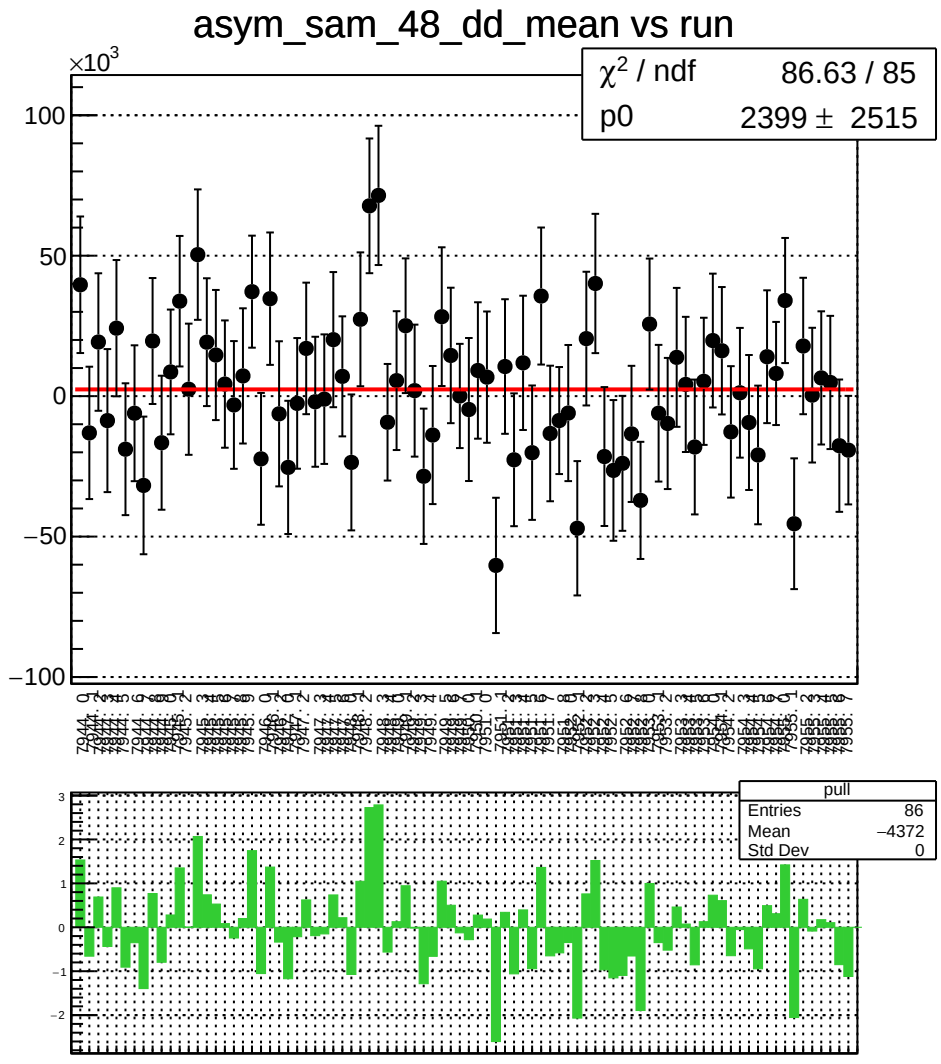

pull1D
Entries 86
Mean −0.0152
Std Dev 0.9312

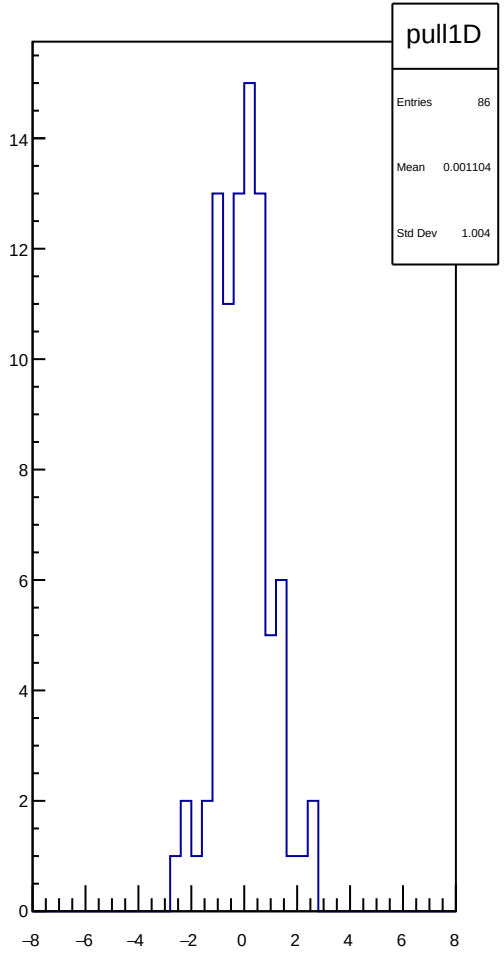

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 2.773e+04 / 85
p0 189.1 ± 0.1499
400
350
300
250
200
150

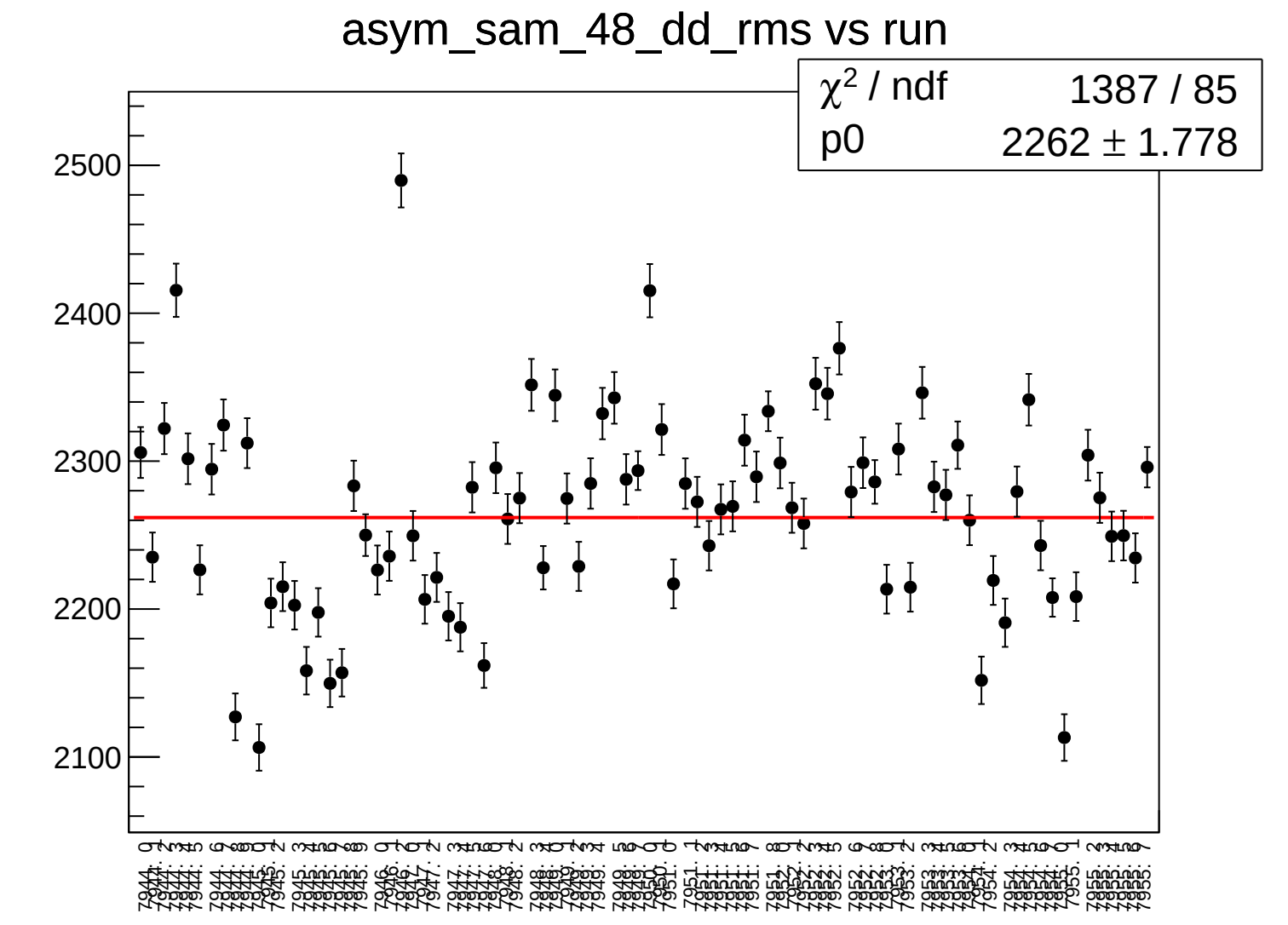

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.82 / 85
p0 −2364 ± 2548
100
50
0
−50
−100
pull
Entries 86
Mean −4717
Std Dev 0
2
1
0
−1
−2

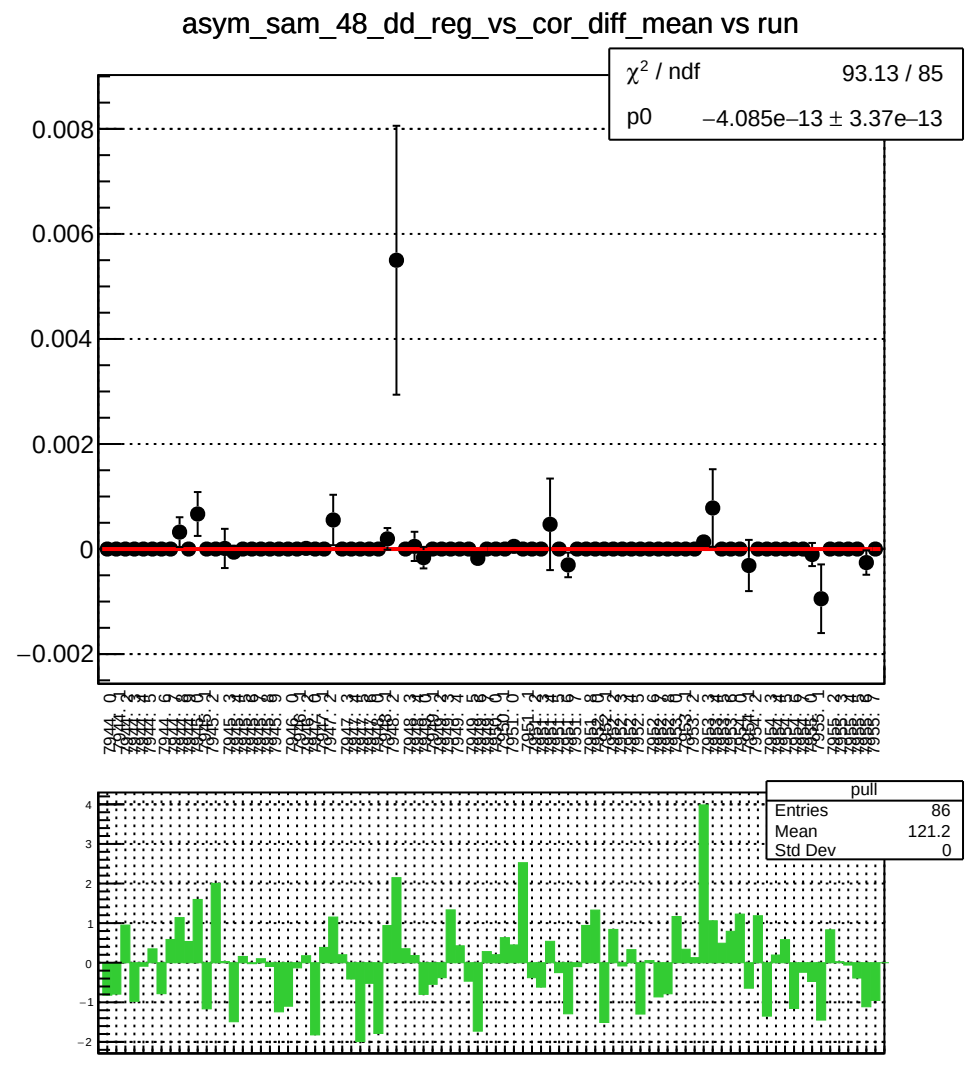

pull1D
Entries 86
Mean −0.001062
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

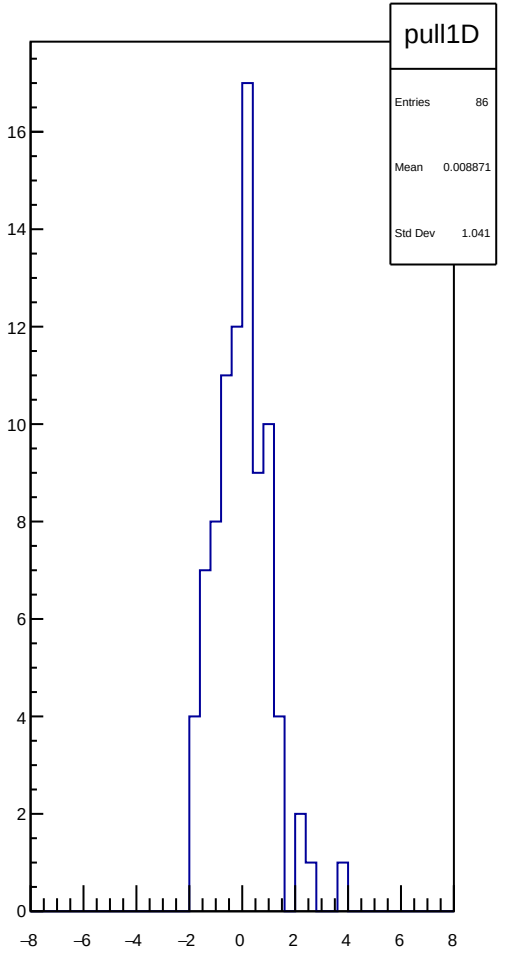

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1036 / 85
p0 2292 ± 1.802
2450
2400
2350
2300
2250
2200
2150

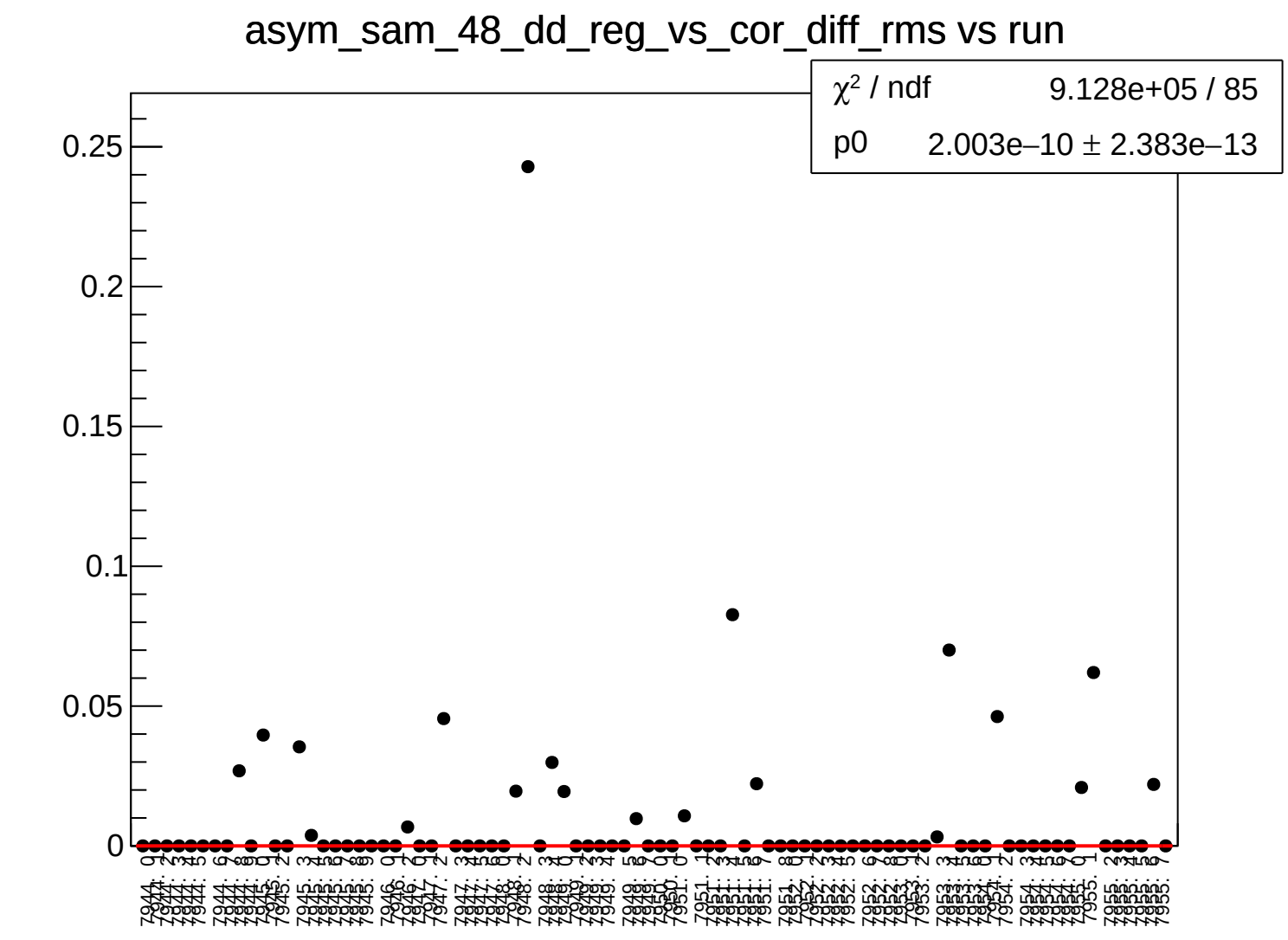

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 86.63 / 85
p0 2399 ± 2515
100
50
0
−50
−100
pull
Entries 86
Mean −4372
Std Dev 0
3
2
1
0
−1
−2

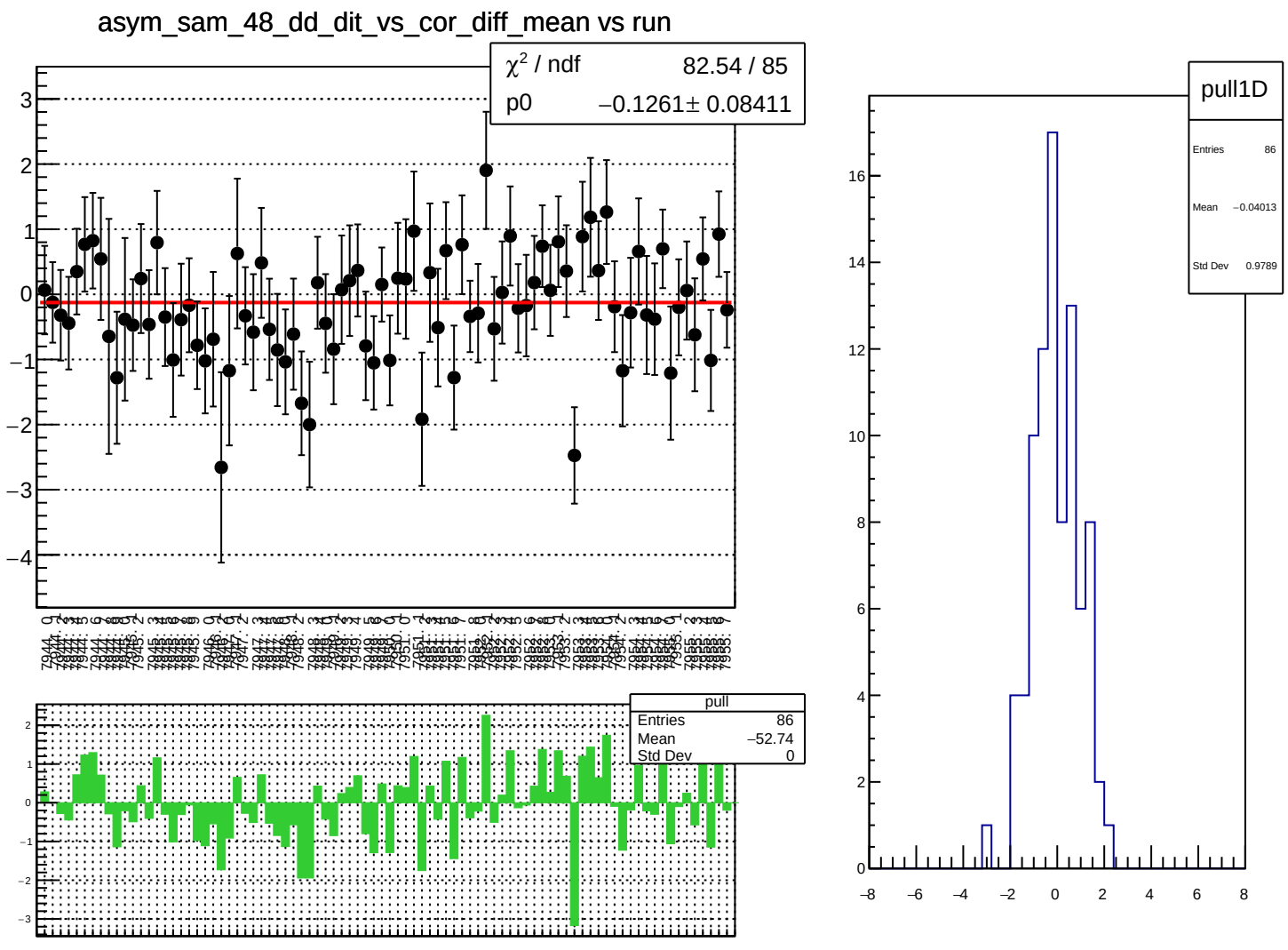

pull1D
Entries 86
Mean 0.001104
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

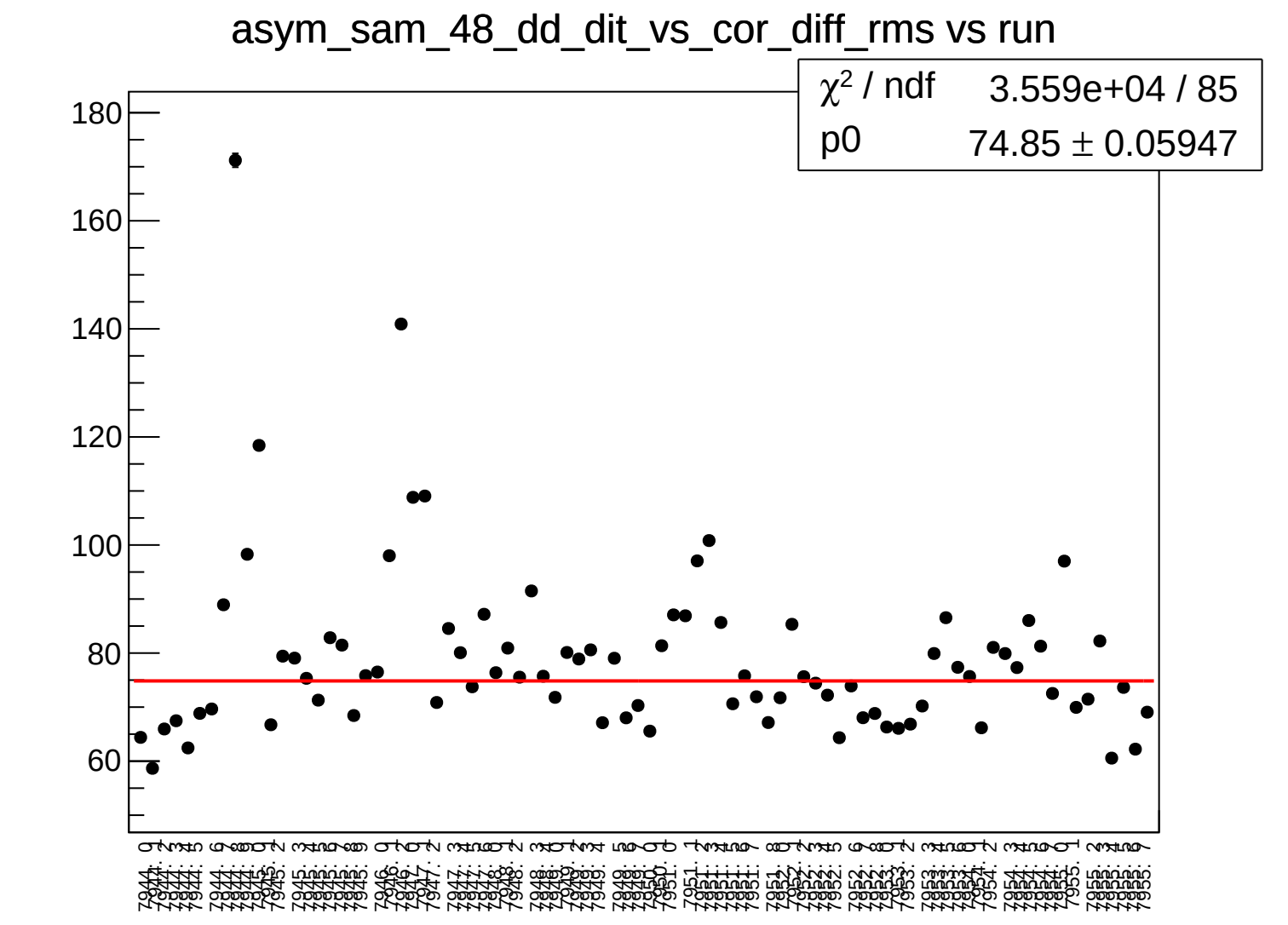

asym_sam_48_dd_rms vs run
χ^2 / ndf 1387 / 85
p0 2262 ± 1.778
2500
2400
2300
2200
2100

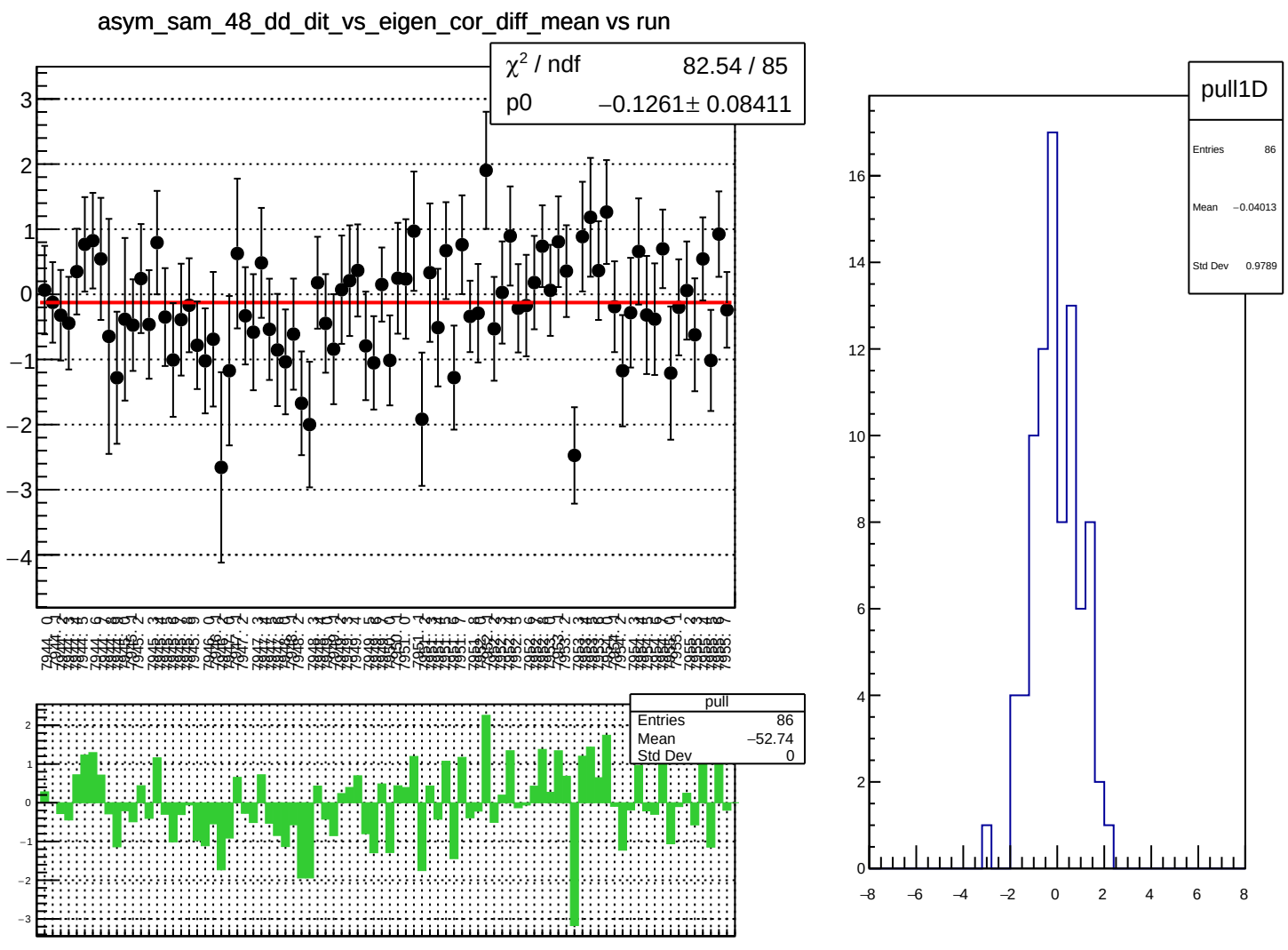

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.13 / 85
p0 −4.085e−13 ± 3.37e−13
0.008
0.006
0.004
0.002
0
−0.002
pull
Entries 86
Mean 121.2
Std Dev 0
4
3
2
1
0
−1
−2

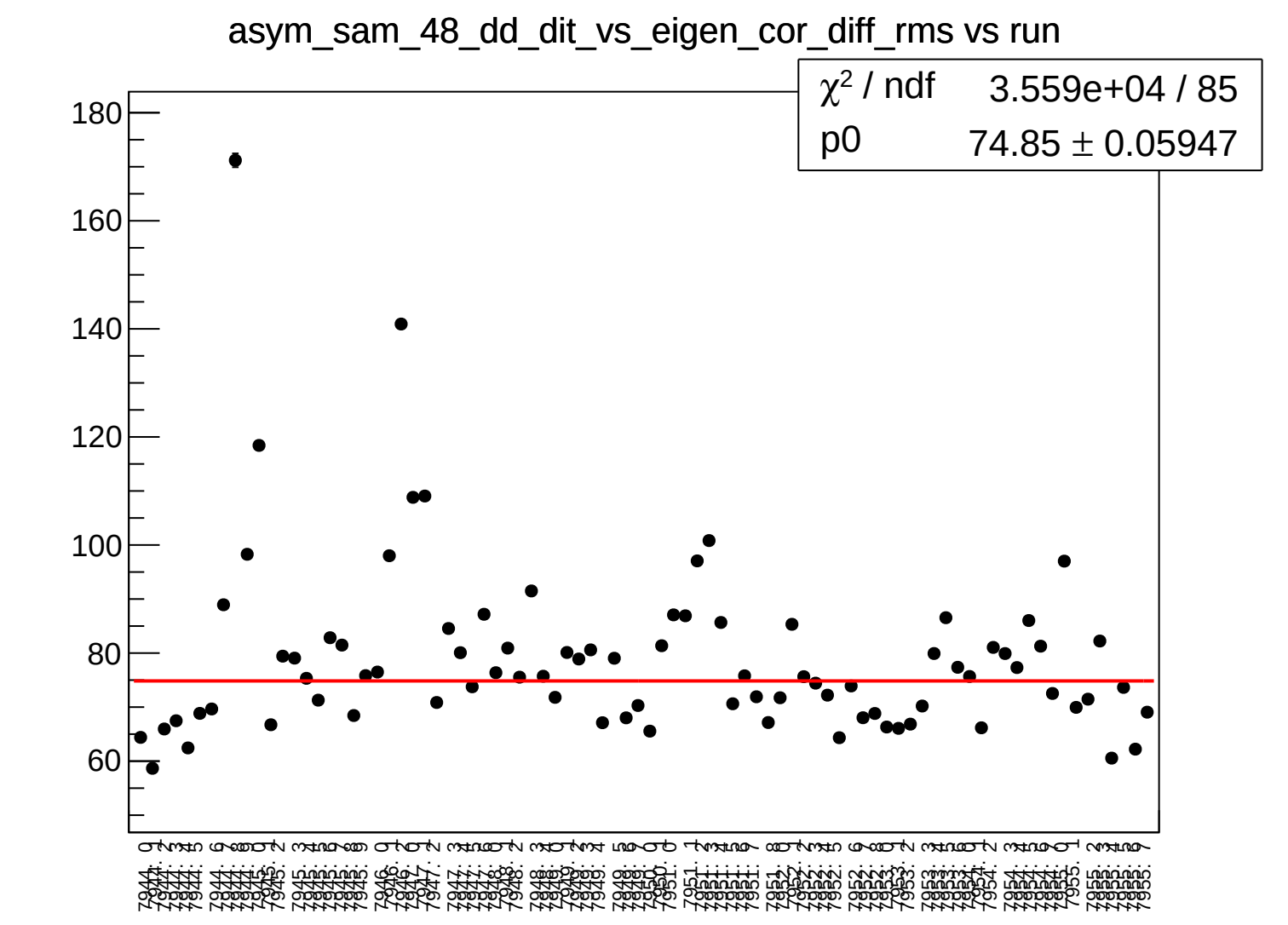

pull1D
Entries 86
Mean 0.008871
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

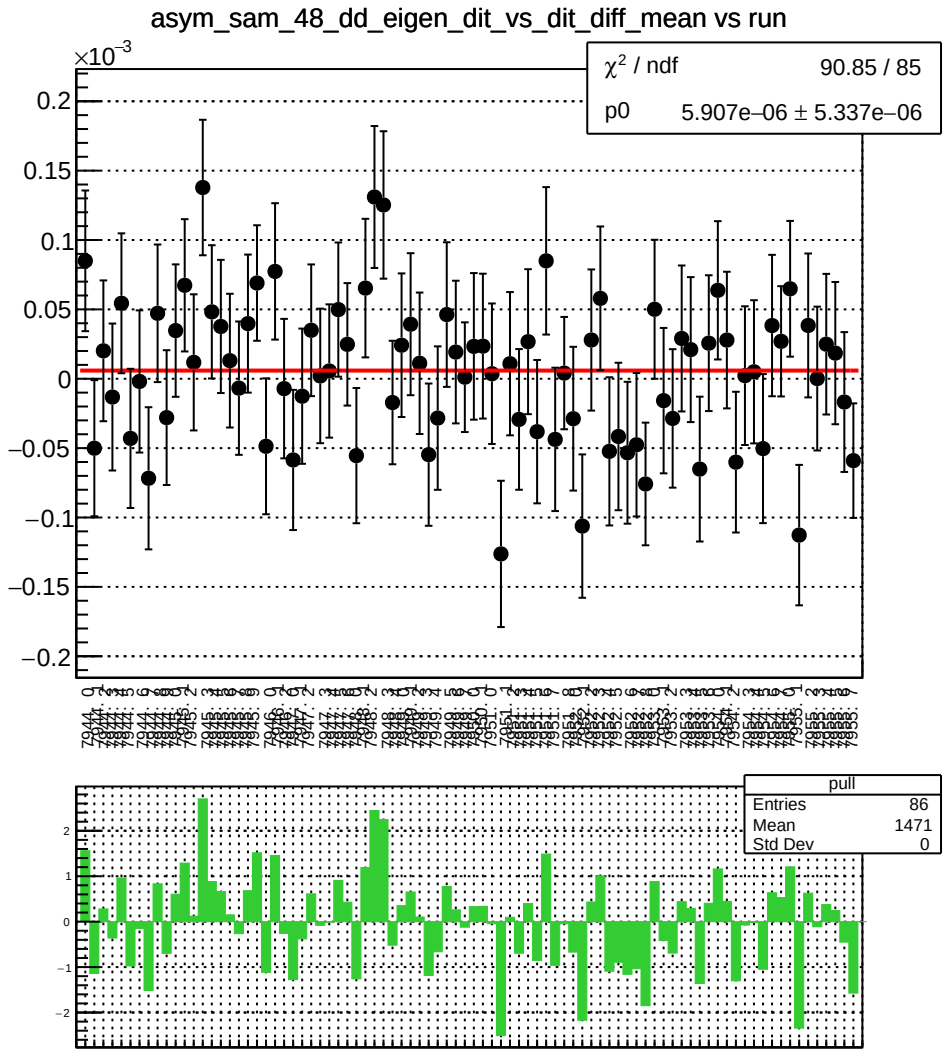

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.128e+05 / 85
p0 2.003e−10 ± 2.383e−13
0.25
0.2
0.15
0.1
0.05
0

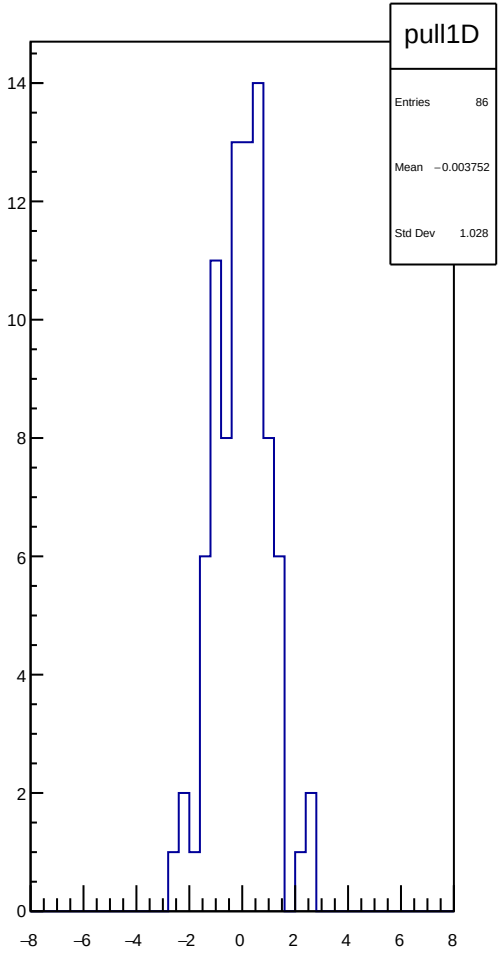

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.54 / 85
p0 −0.1261± 0.08411
pull
Entries 86
Mean −52.74
Std Dev 0
pull1D
Entries 86
Mean −0.04013
Std Dev 0.9789

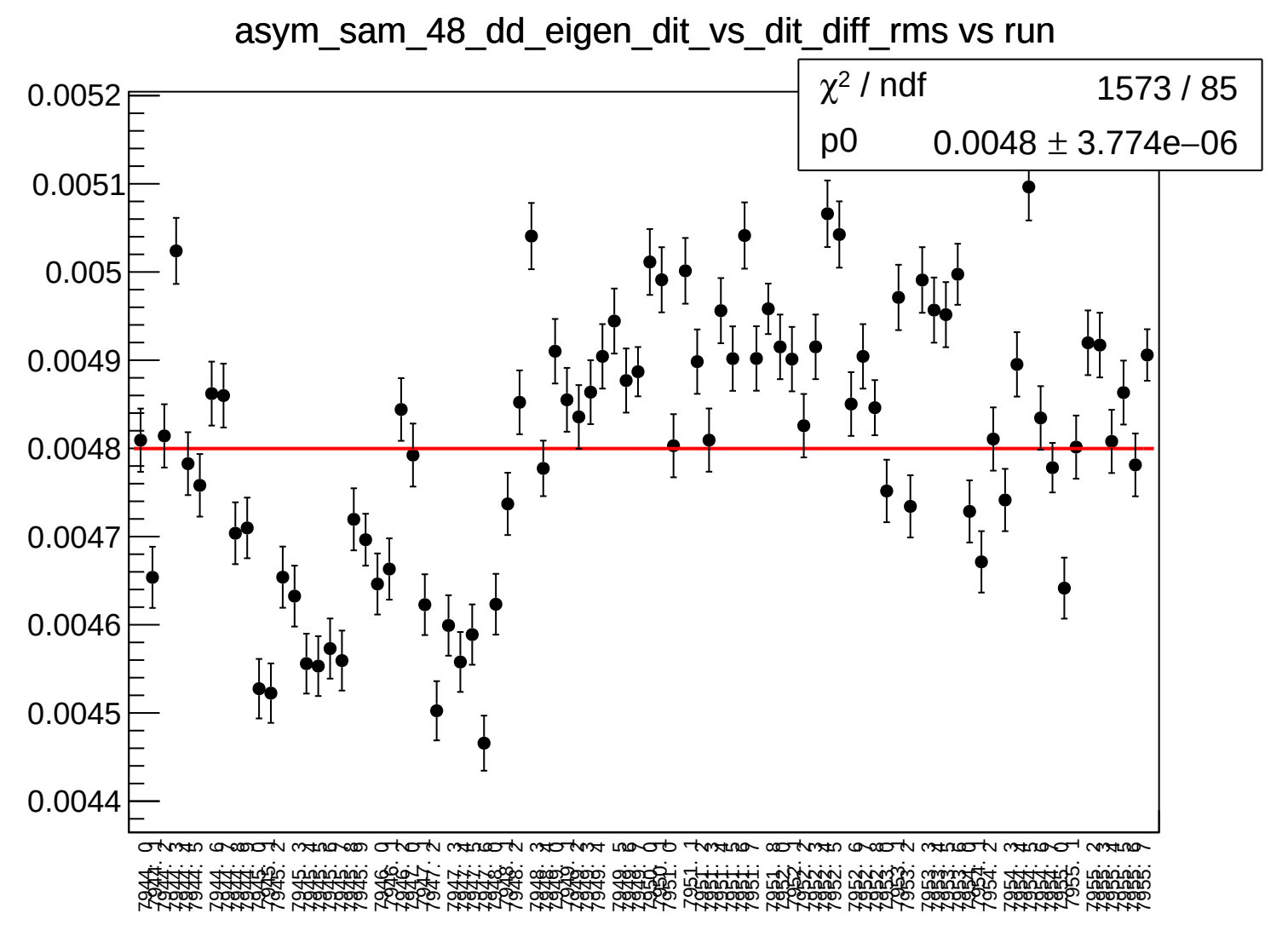

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.559e+04 / 85
p0 74.85 ± 0.05947
180
160
140
120
100
80
60

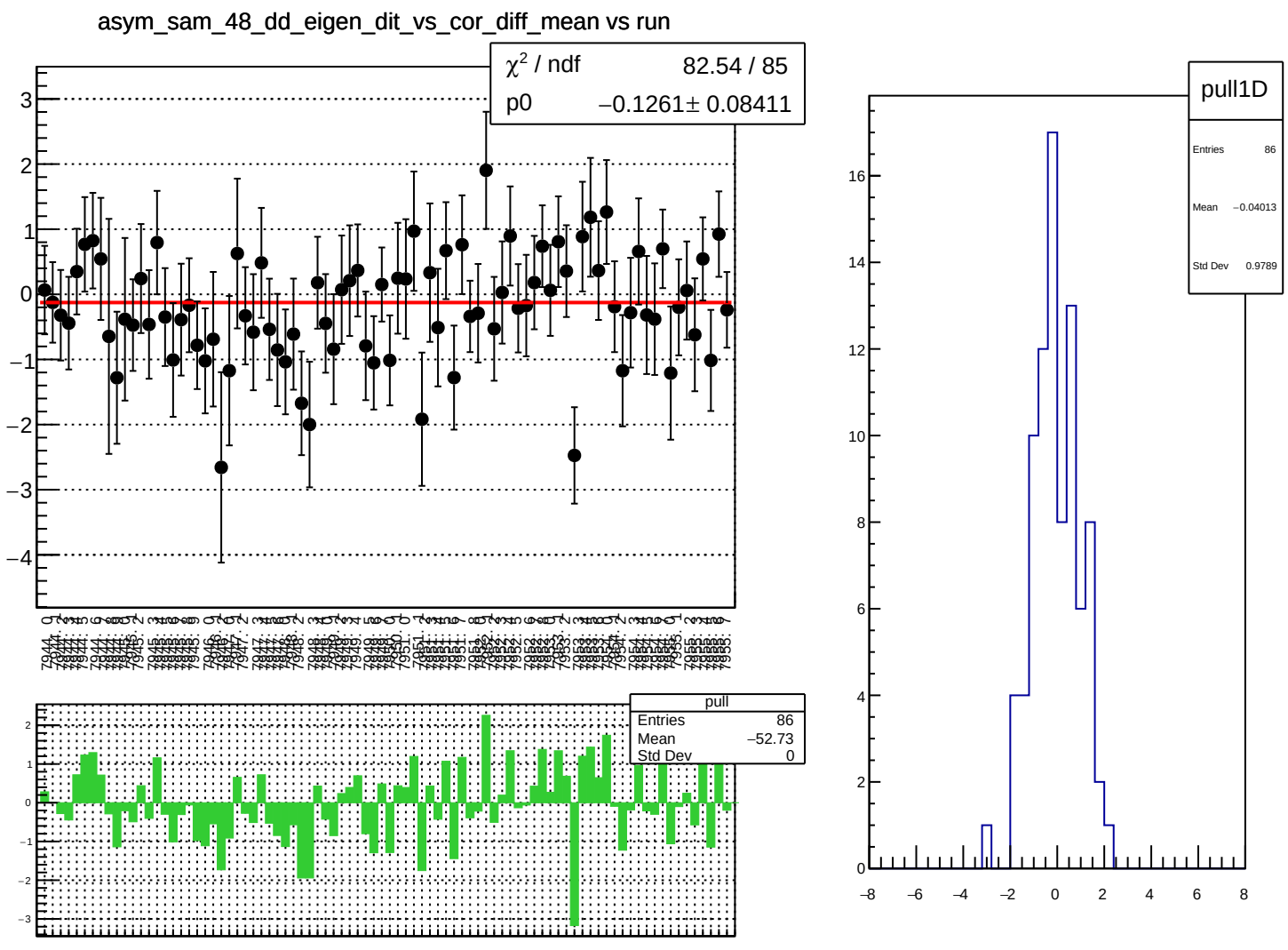

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.54 / 85
p0 −0.1261± 0.08411
pull
Entries 86
Mean −52.74
Std Dev 0
pull1D
Entries 86
Mean −0.04013
Std Dev 0.9789

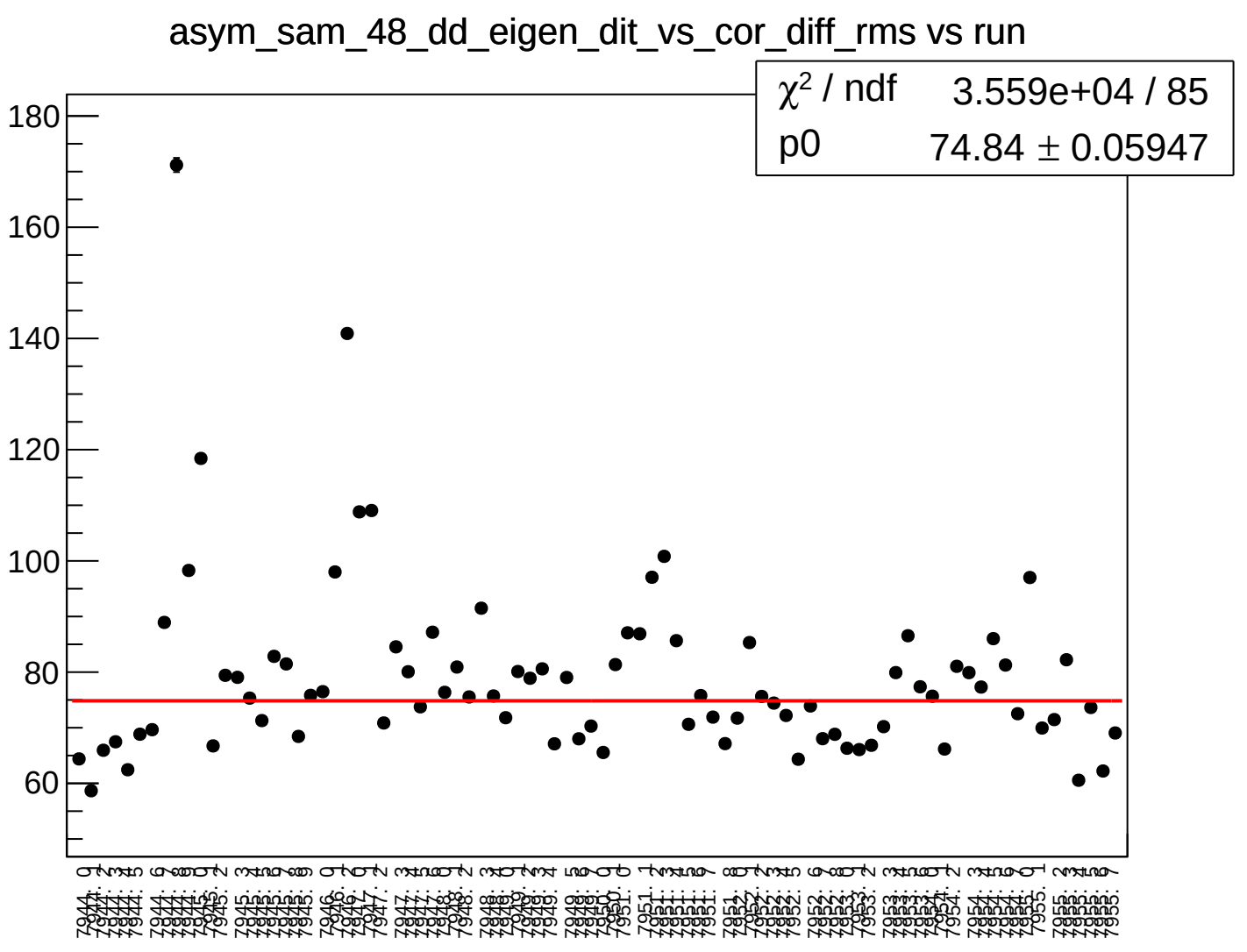

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.559e+04 / 85
p0 74.85 ± 0.05947
180
160
140
120
100
80
60

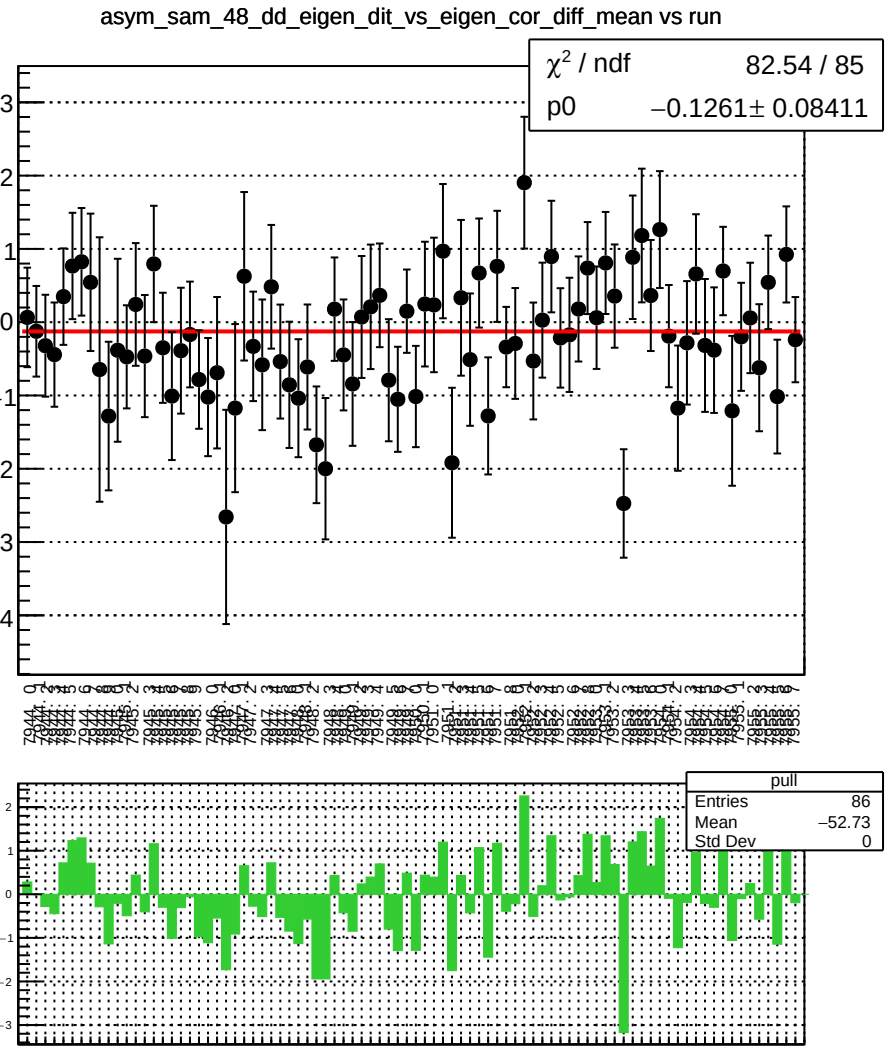

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.85 / 85
p0 5.907e−06 ± 5.337e−06
pull
Entries 86
Mean 1471
Std Dev 0

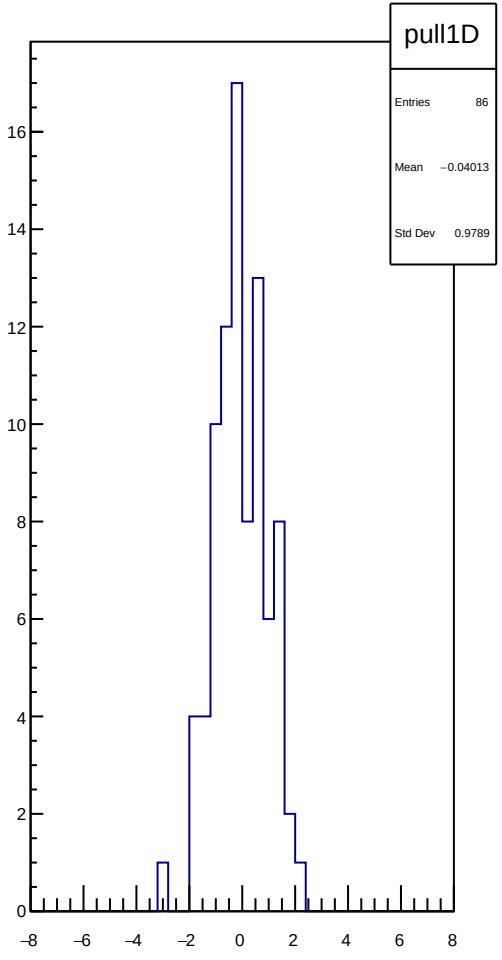

pull1D
Entries 86
Mean −0.003752
Std Dev 1.028

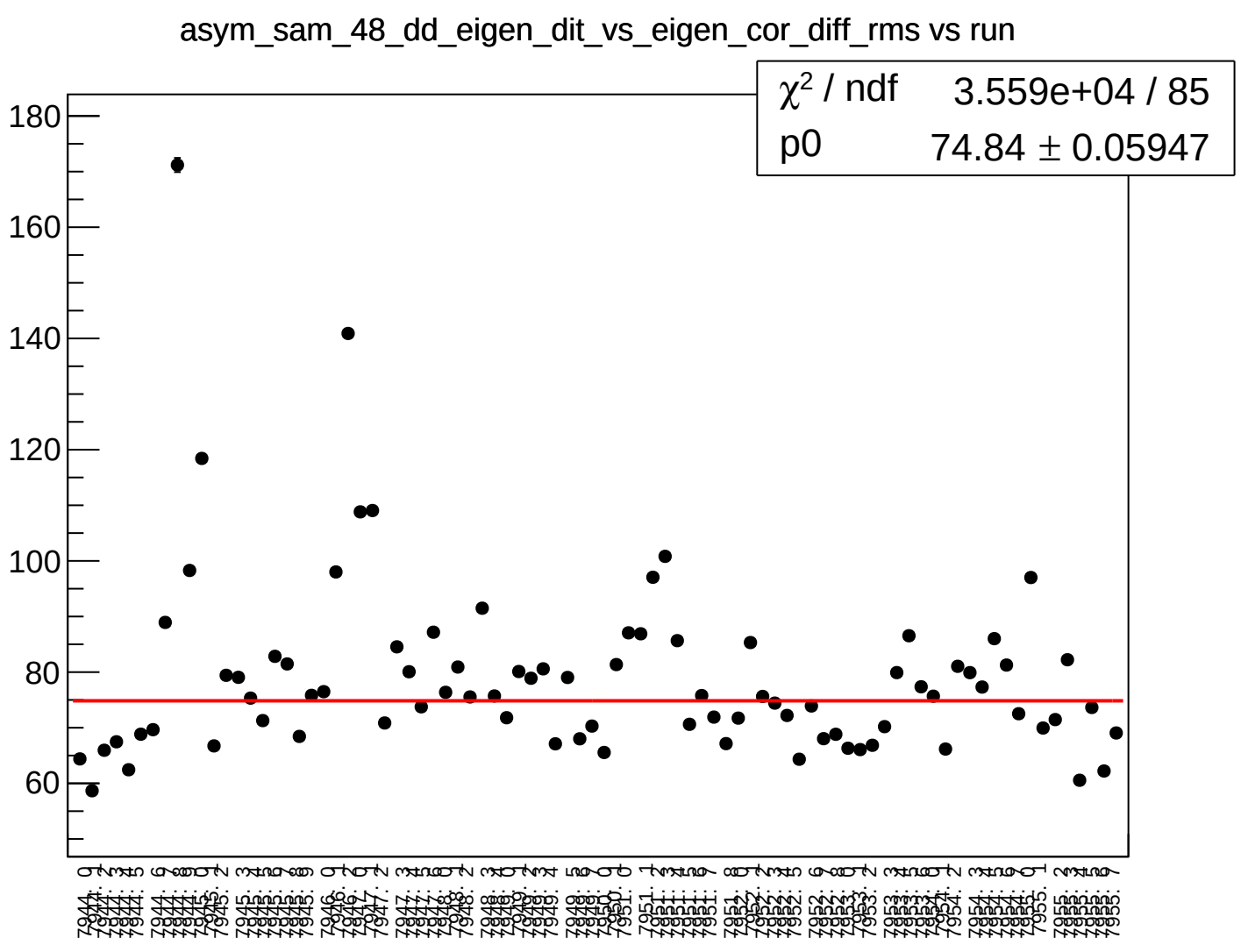

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1573 / 85
p0 0.0048 ± 3.774e−06
0.0052
0.0051
0.005
0.0049
0.0048
0.0047
0.0046
0.0045
0.0044

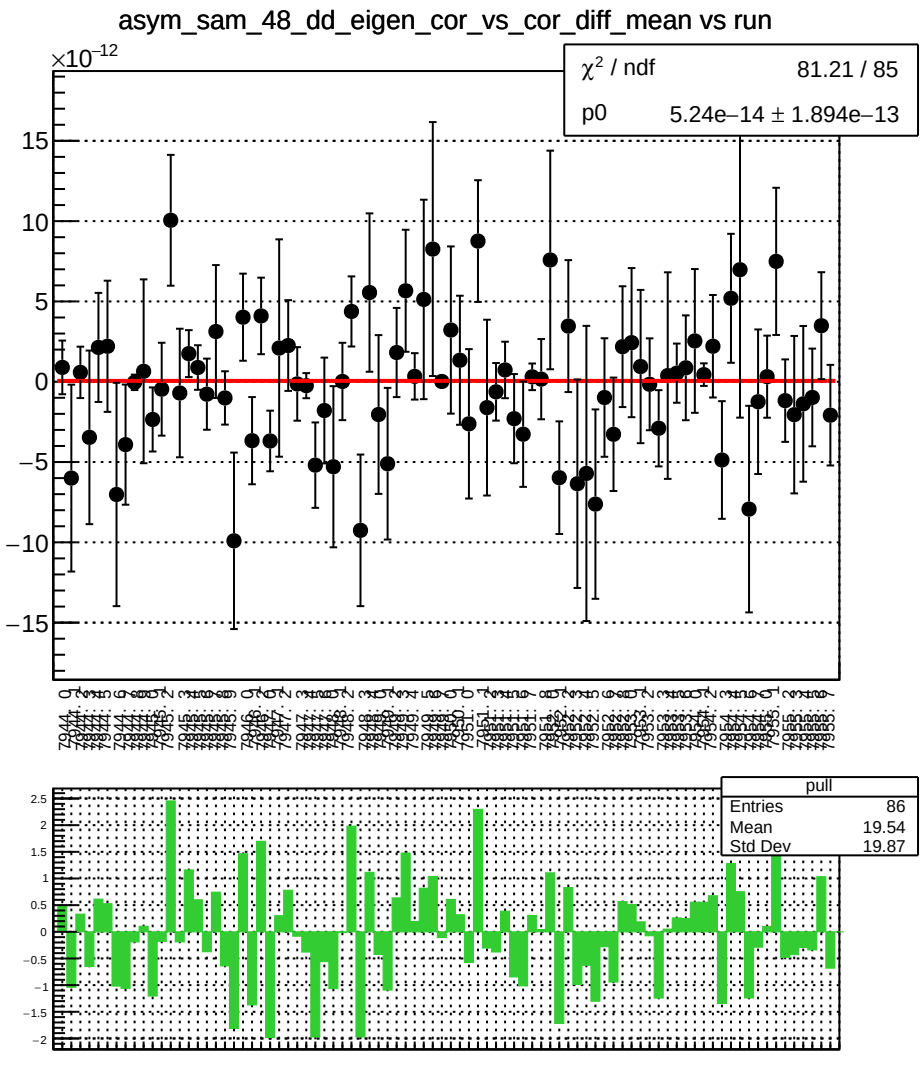

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.54 / 85
p0 −0.1261± 0.08411
pull
Entries 86
Mean −52.73
Std Dev 0
pull1D
Entries 86
Mean −0.04013
Std Dev 0.9789

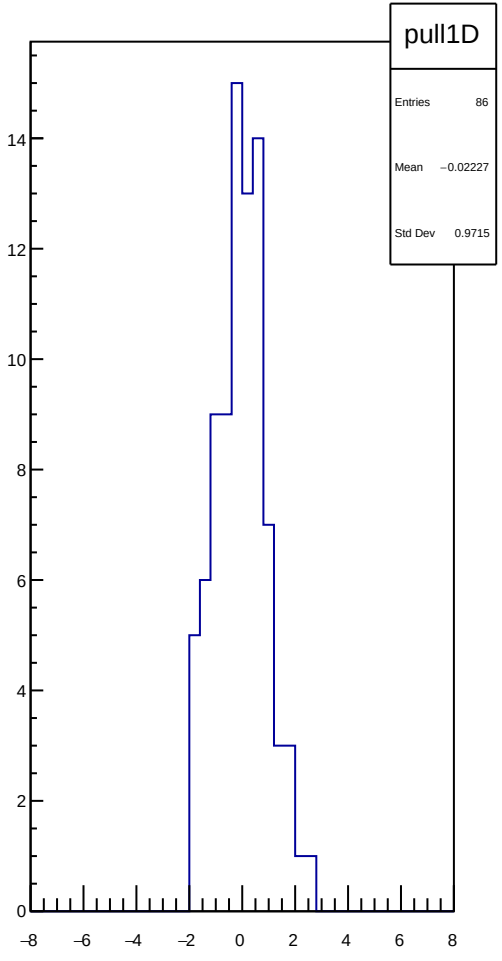

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.559e+04 / 85
p0 74.84 ± 0.05947
180
160
140
120
100
80
60

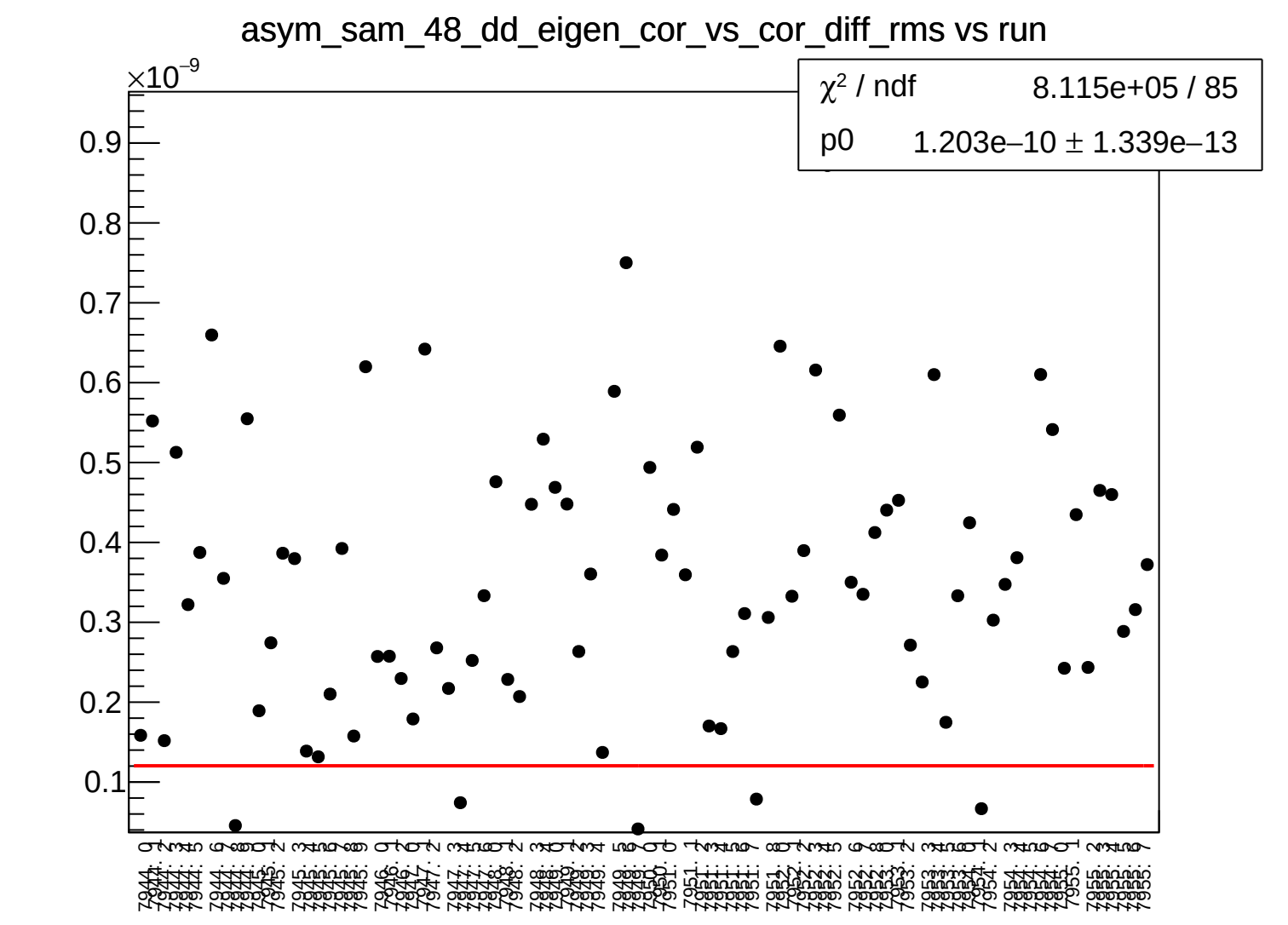

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.54 / 85
p0 −0.1261± 0.08411
pull
Entries 86
Mean −52.73
Std Dev 0

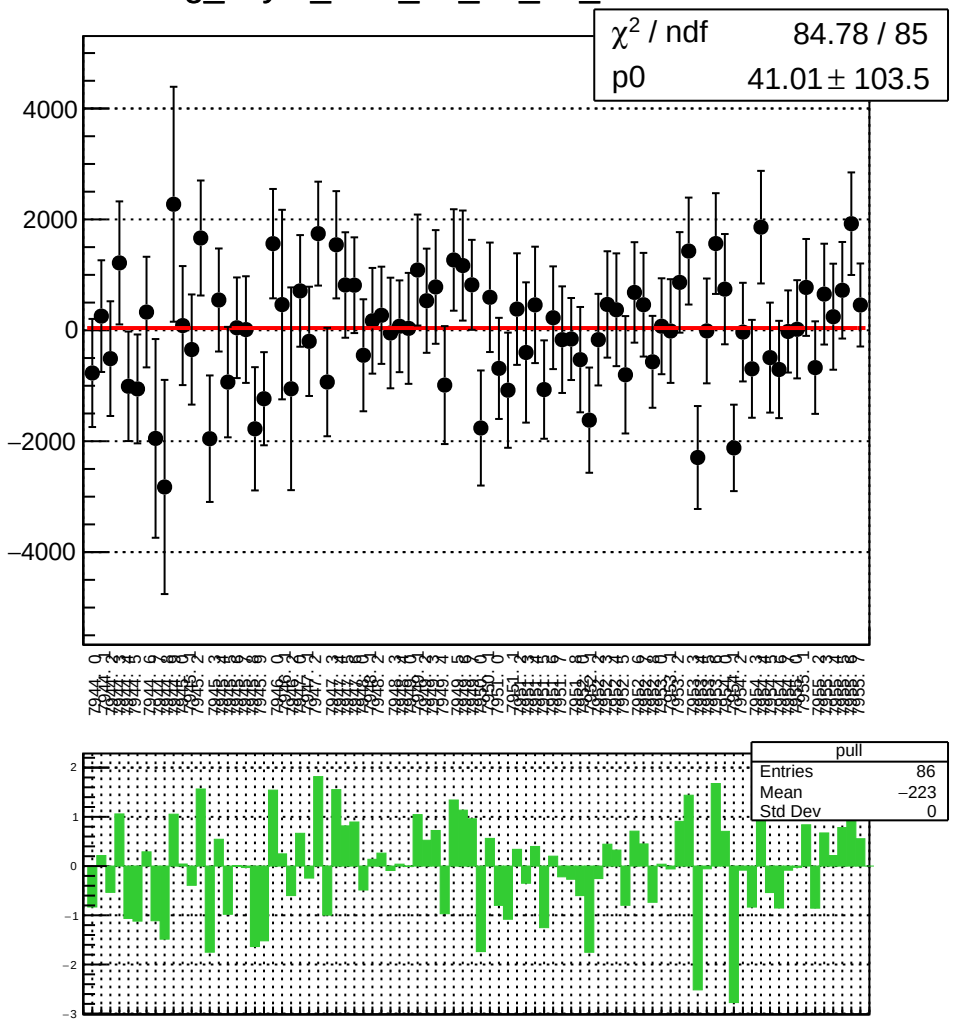

pull1D
Entries 86
Mean −0.04013
Std Dev 0.9789

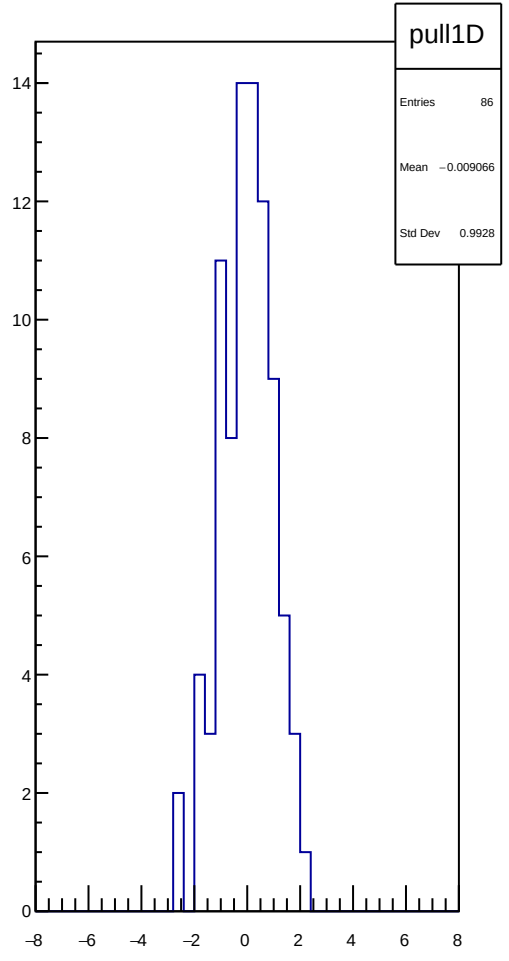

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.559e+04 / 85
p0 74.84 ± 0.05947
180
160
140
120
100
80
60

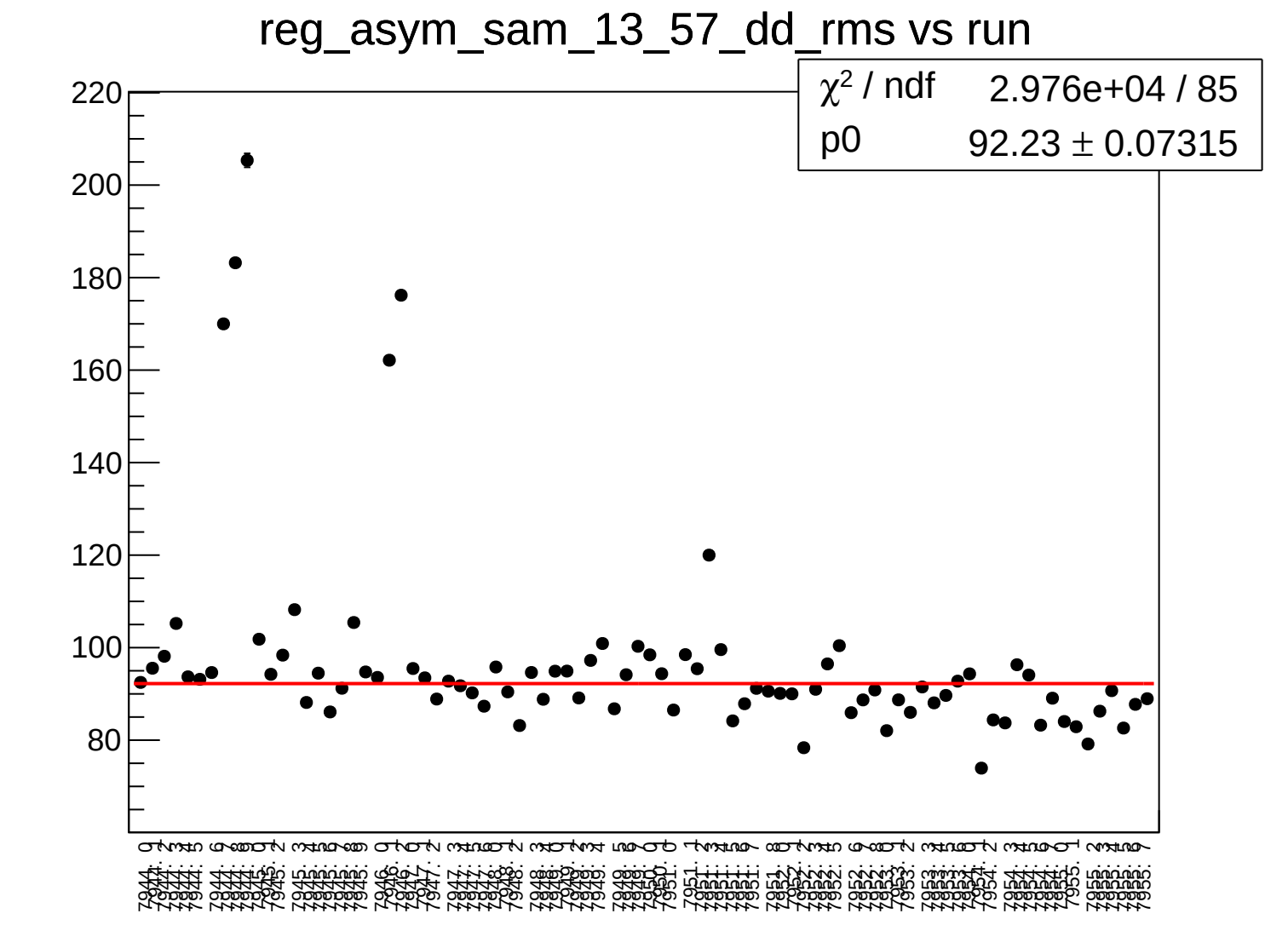

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.21 / 85
p0 5.24e−14 ± 1.894e−13
pull
Entries 86
Mean 19.54
Std Dev 19.87

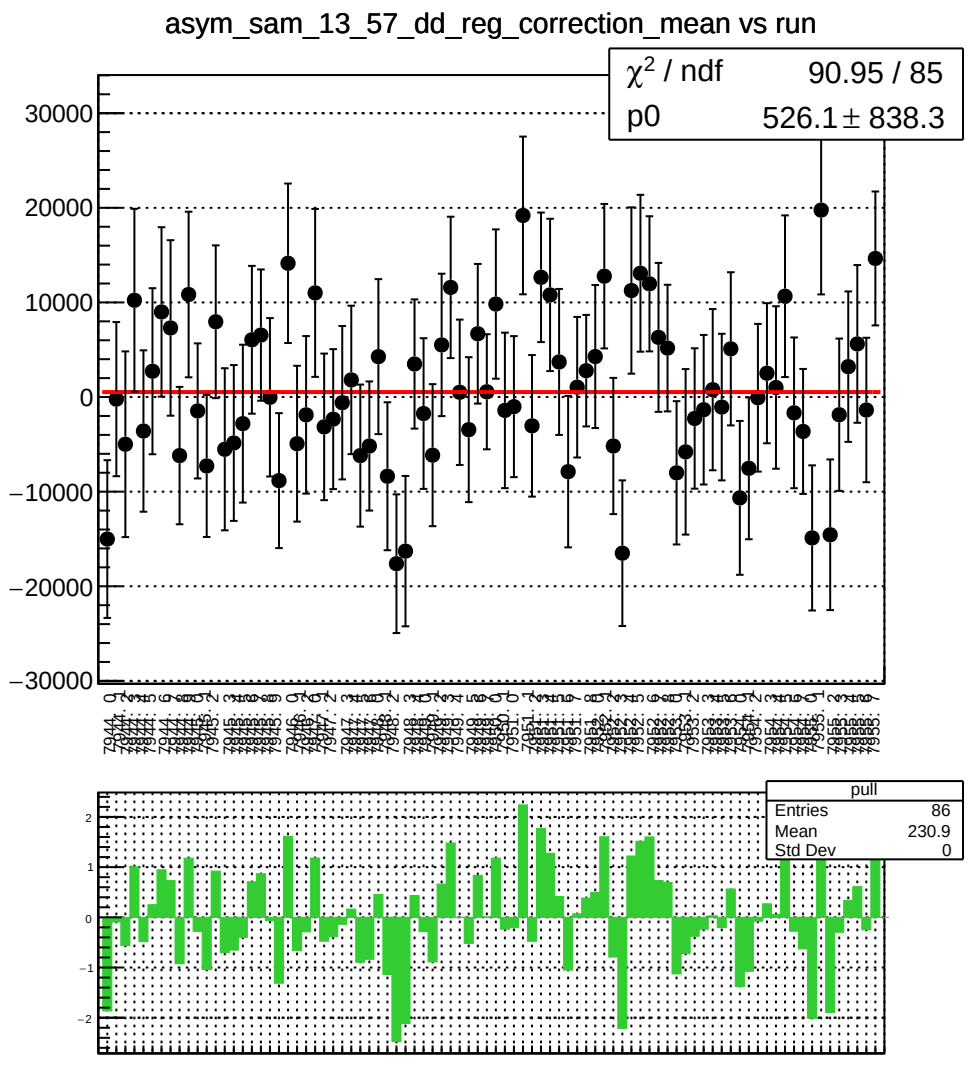

pull1D
Entries 86
Mean −0.02227
Std Dev 0.9715

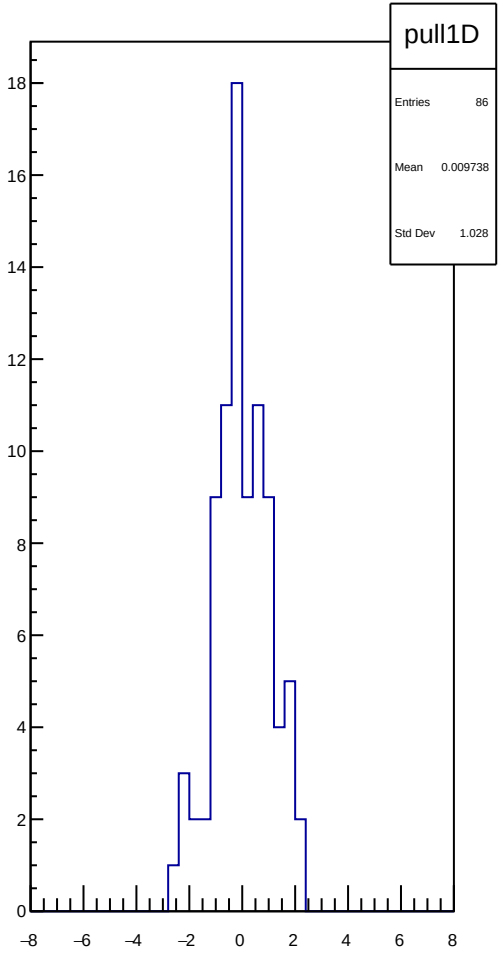

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.115e+05 / 85
p0 1.203e−10 ± 1.339e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

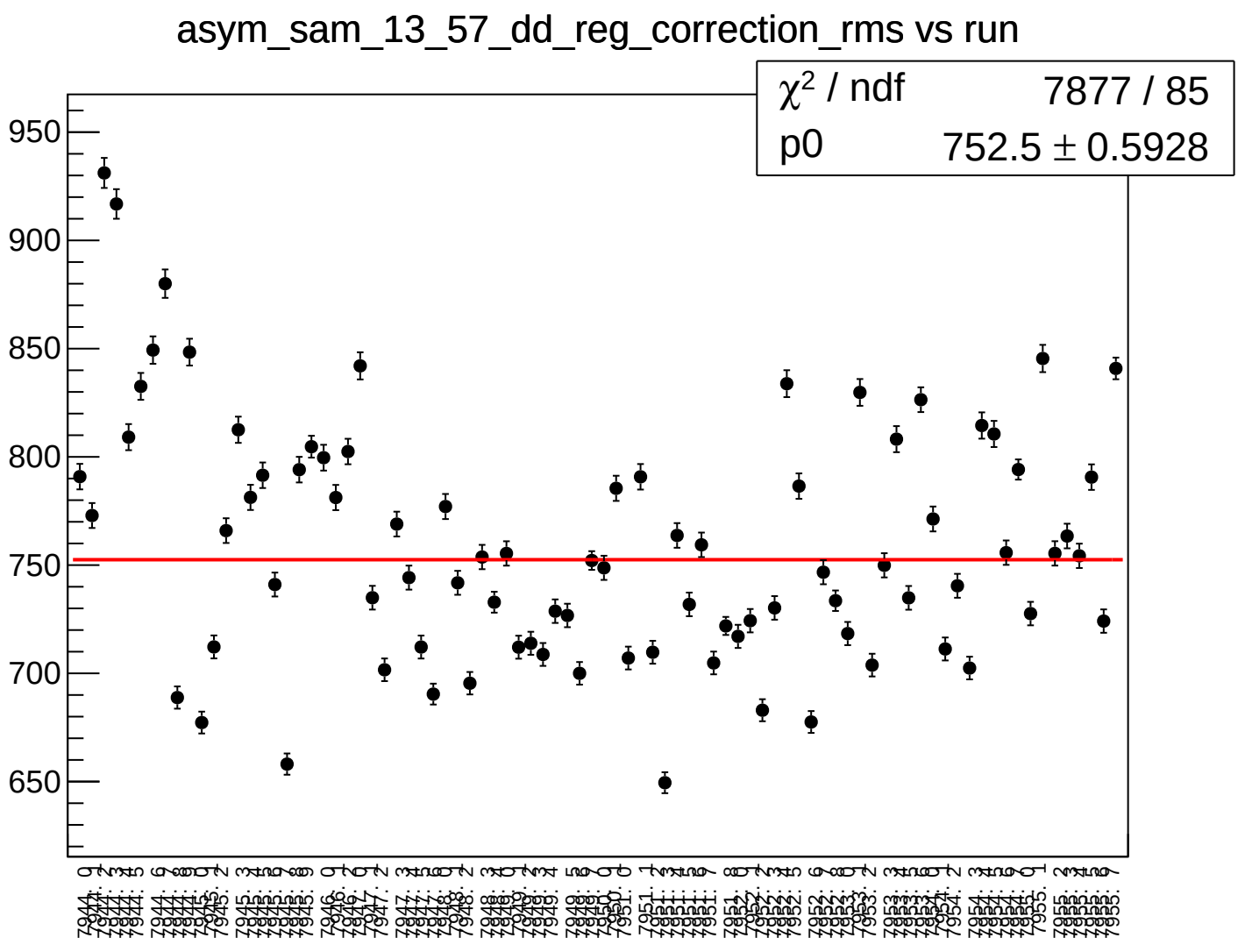

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 84.78 / 85
p0 41.01 ± 103.5
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −223
Std Dev 0
2
1
0
−1
−2
−3

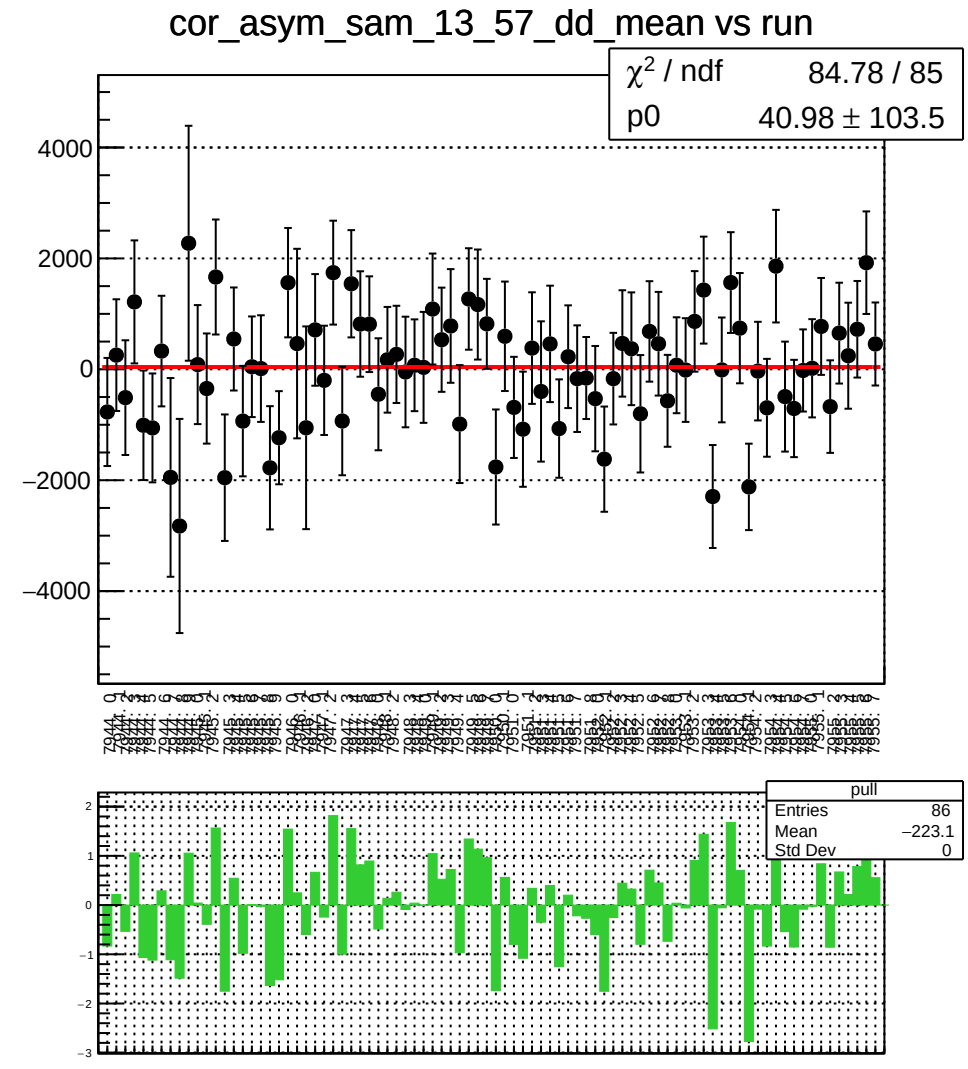

pull1D
Entries 86
Mean −0.009066
Std Dev 0.9928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

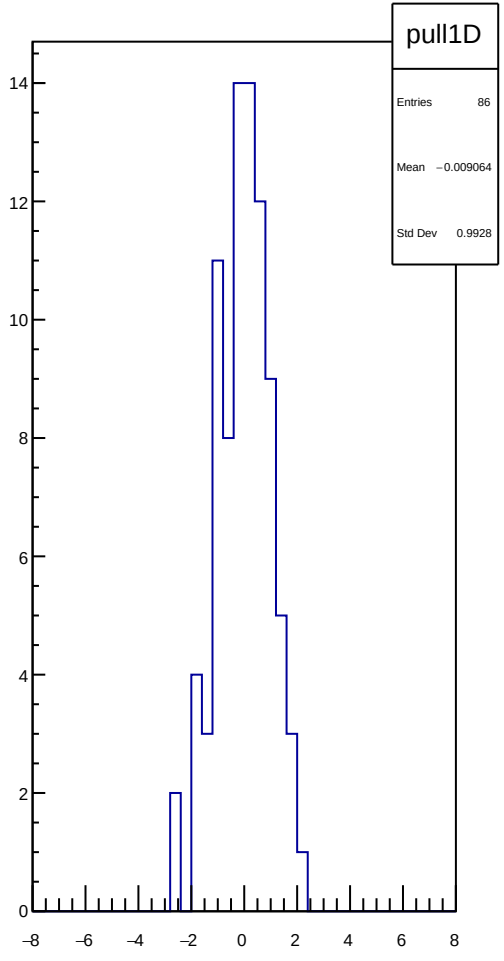

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 2.976e+04 / 85
p0 92.23 ± 0.07315
220
200
180
160
140
120
100
80

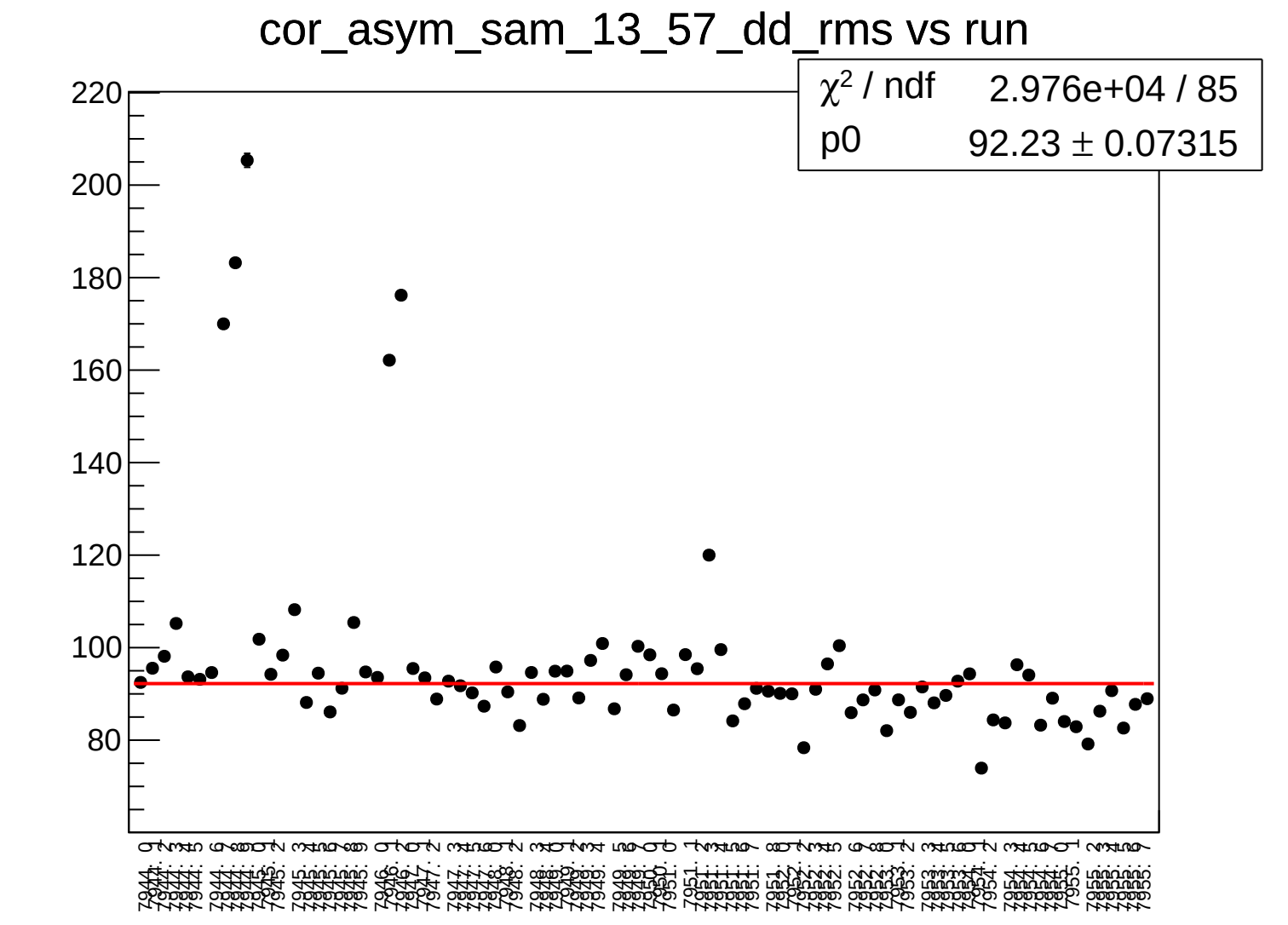

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 90.95 / 85
p0 526.1 ± 838.3
pull
Entries 86
Mean 230.9
Std Dev 0

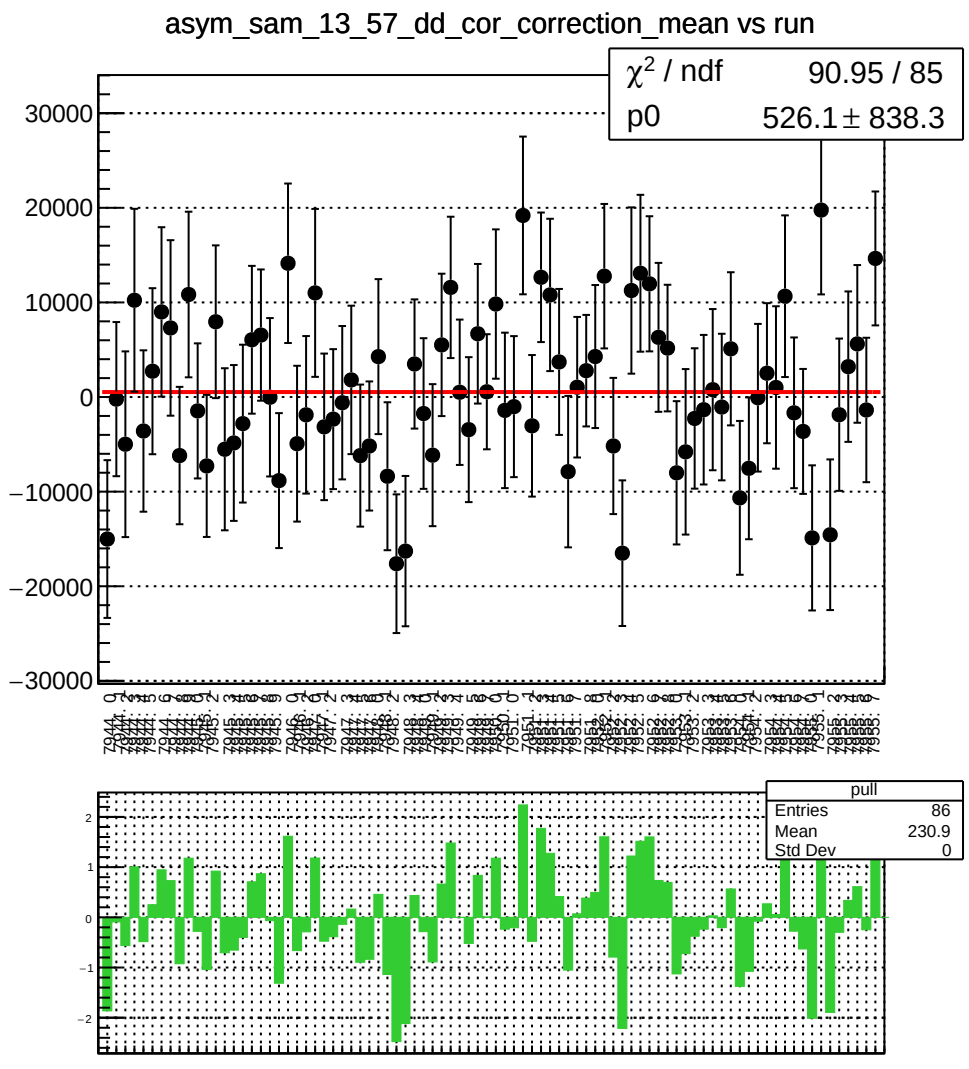

pull1D
Entries 86
Mean 0.009738
Std Dev 1.028

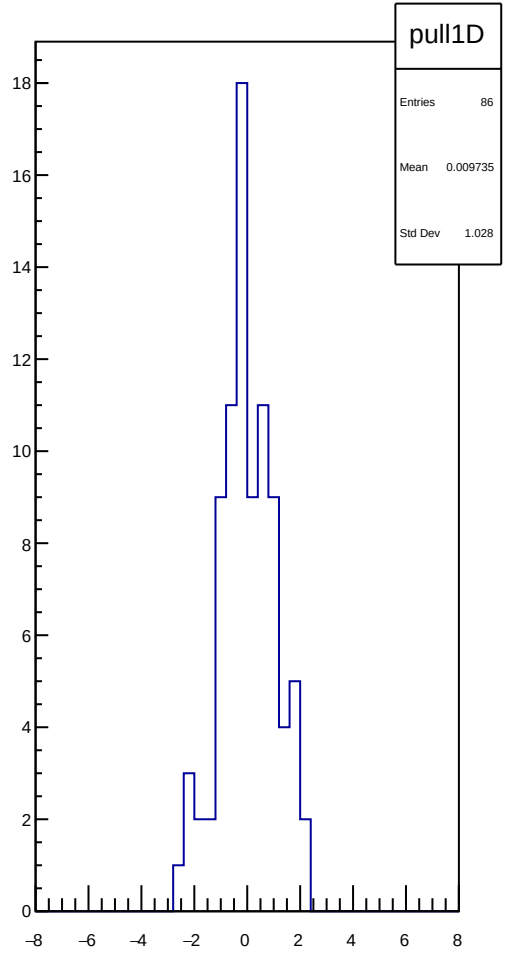

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 7877 / 85
p0 752.5 ± 0.5928
950
900
850
800
750
700
650

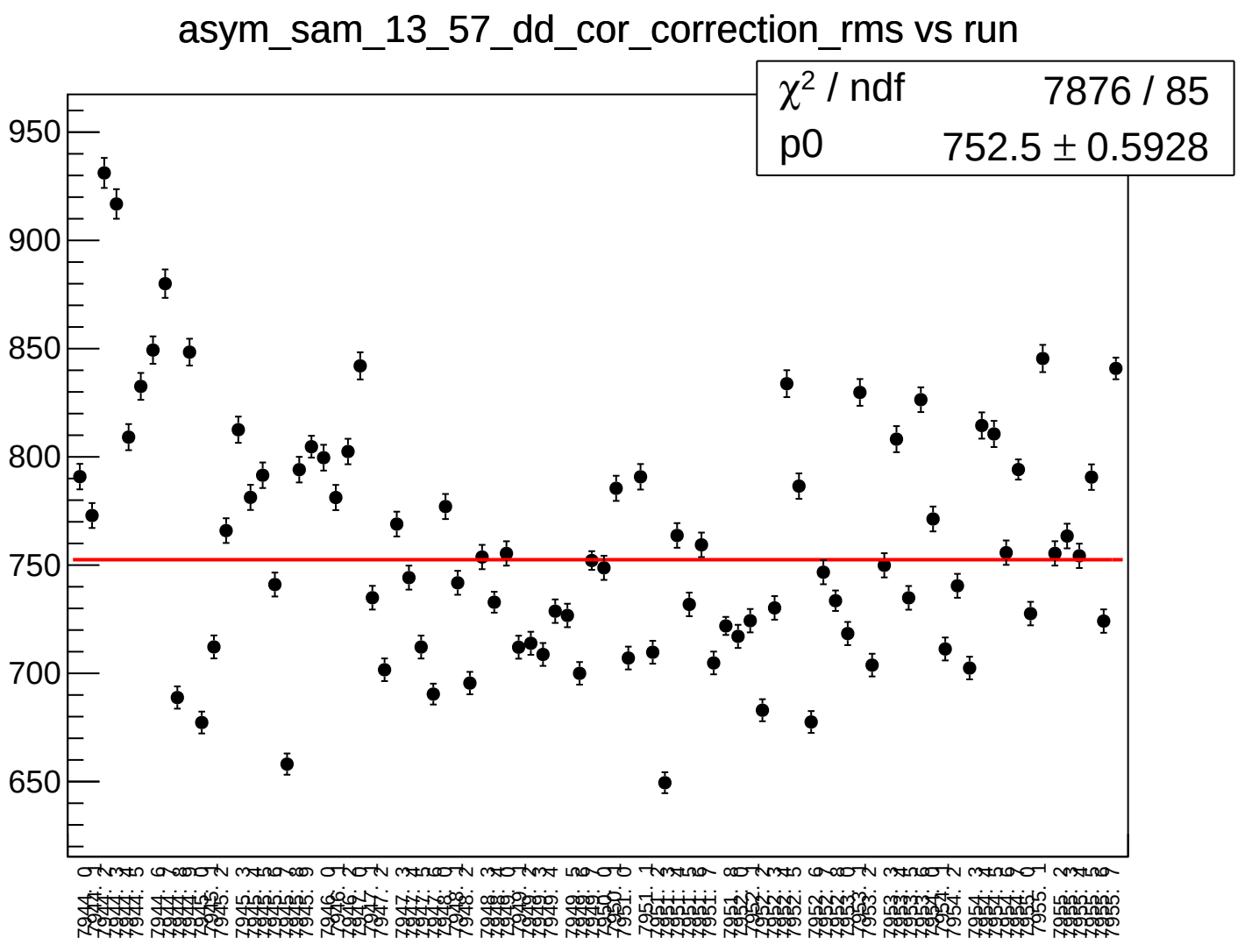

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 84.78 / 85
p0 40.98 ± 103.5
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −223.1
Std Dev 0
2
1
0
−1
−2
−3

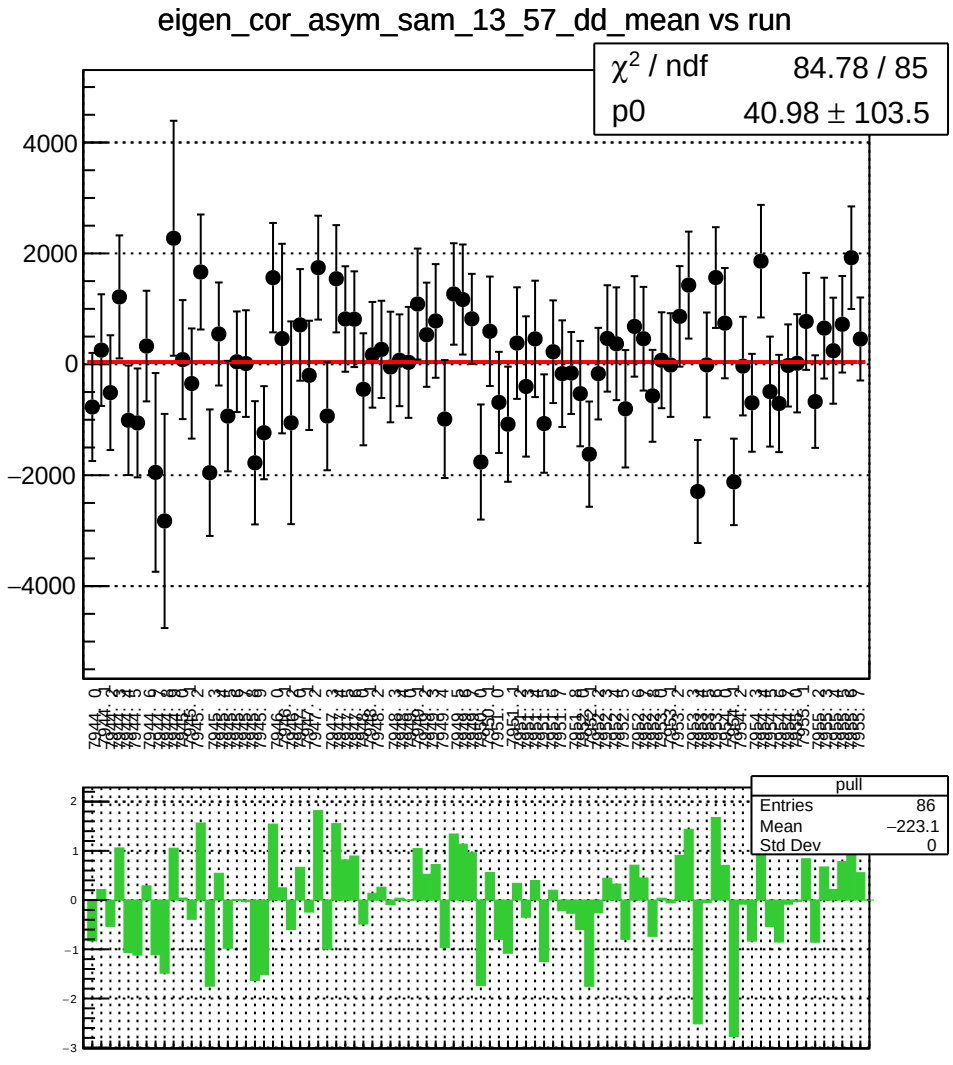

pull1D
Entries 86
Mean −0.009064
Std Dev 0.9928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

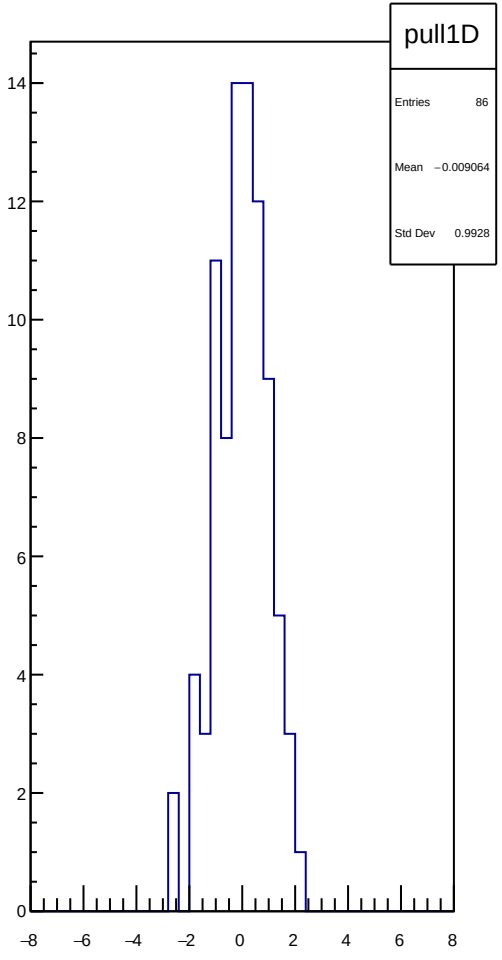

cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 2.976e+04 / 85
p0 92.23 ± 0.07315
220
200
180
160
140
120
100
80

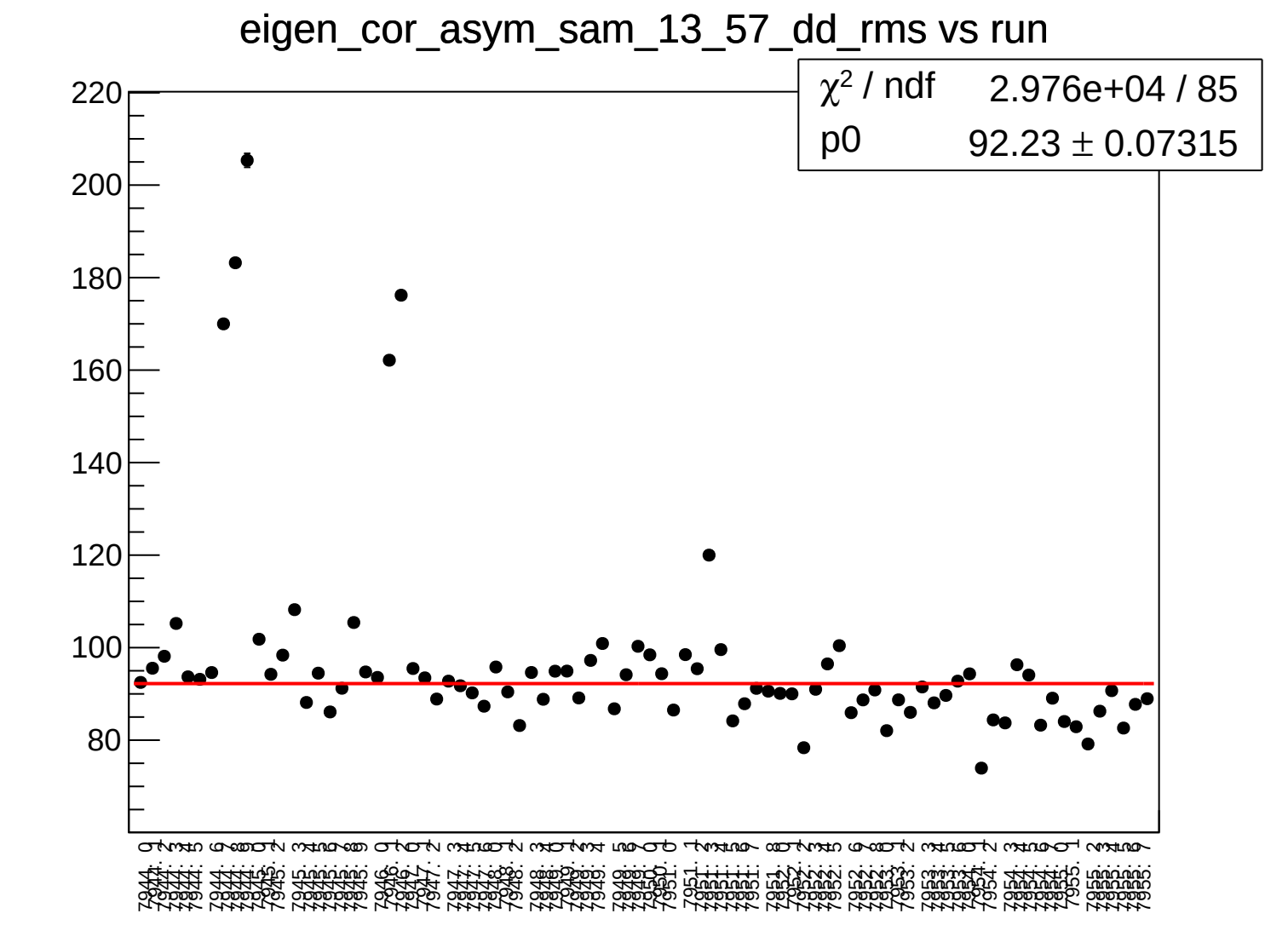

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 90.95 / 85
p0 526.1 ± 838.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 230.9
Std Dev 0
2
1
0
−1
−2

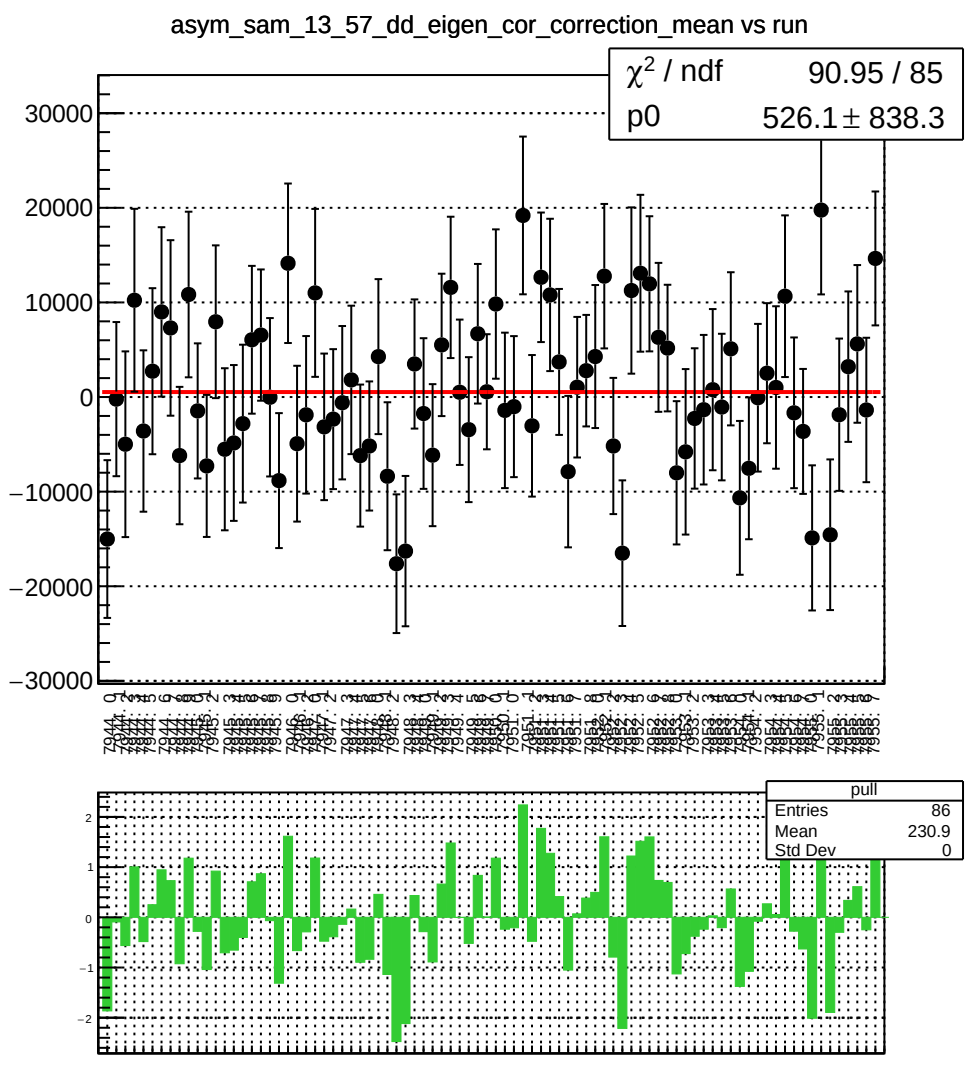

pull1D
Entries 86
Mean 0.009735
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

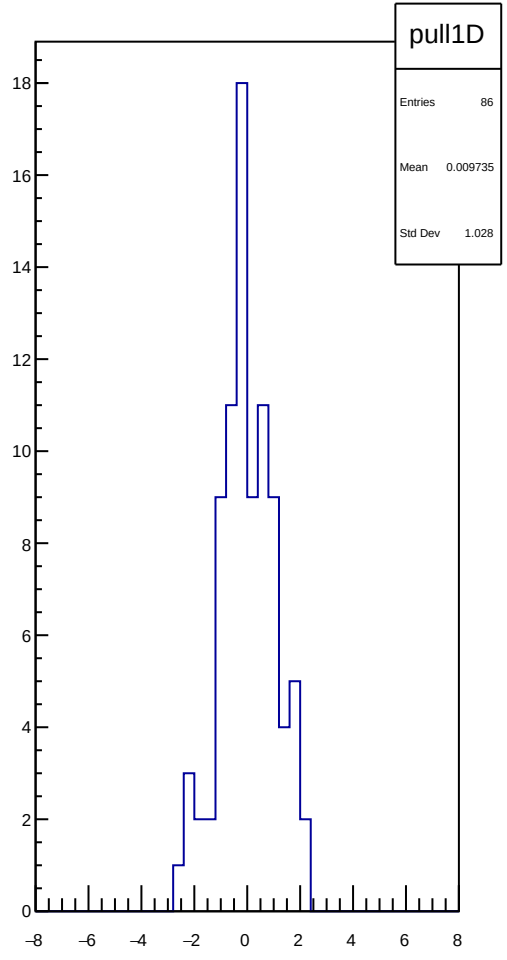

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 7876 / 85
p0 752.5 ± 0.5928
950
900
850
800
750
700
650

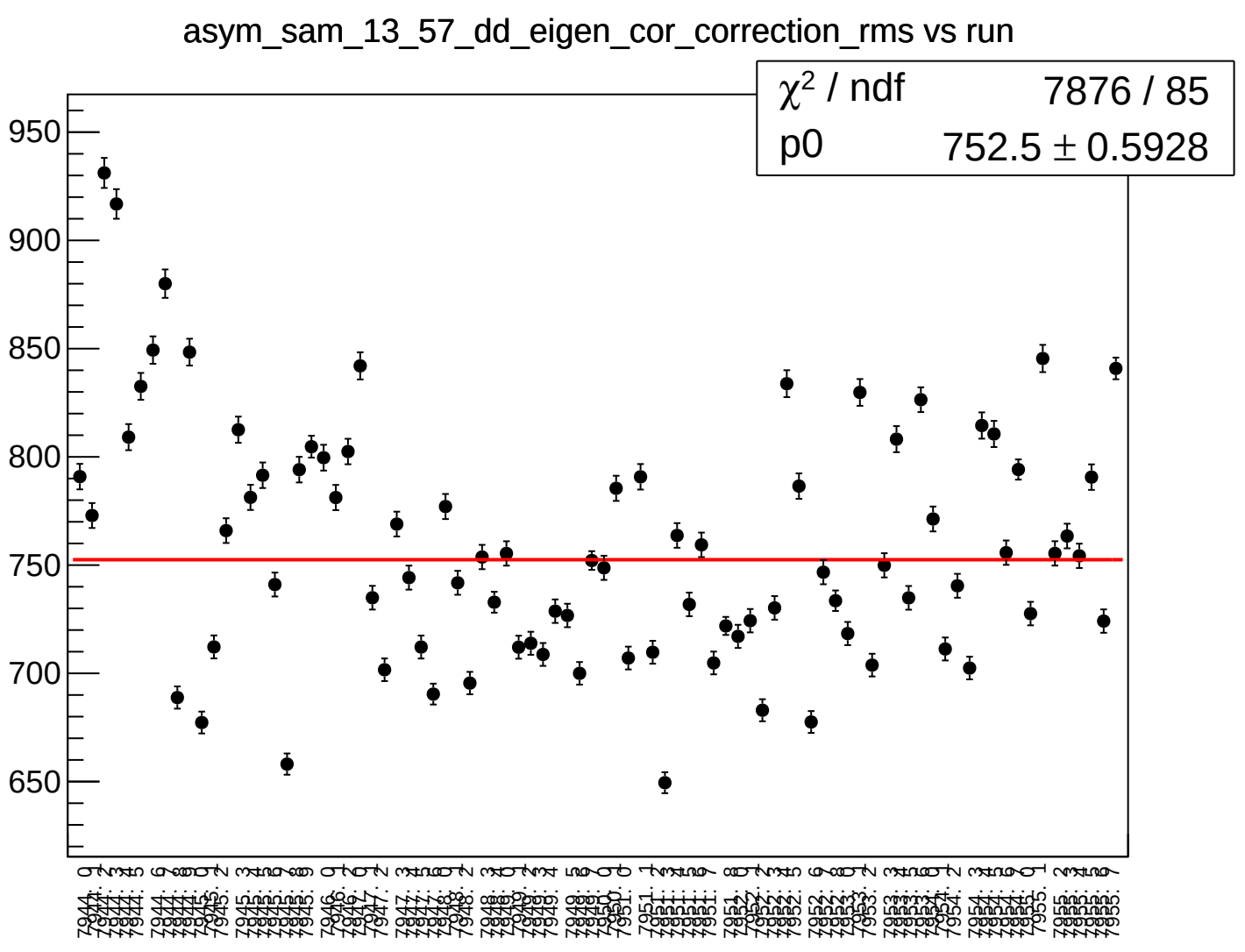

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 84.78 / 85
p0 40.98 ± 103.5
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −223.1
Std Dev 0
2
1
0
−1
−2
−3

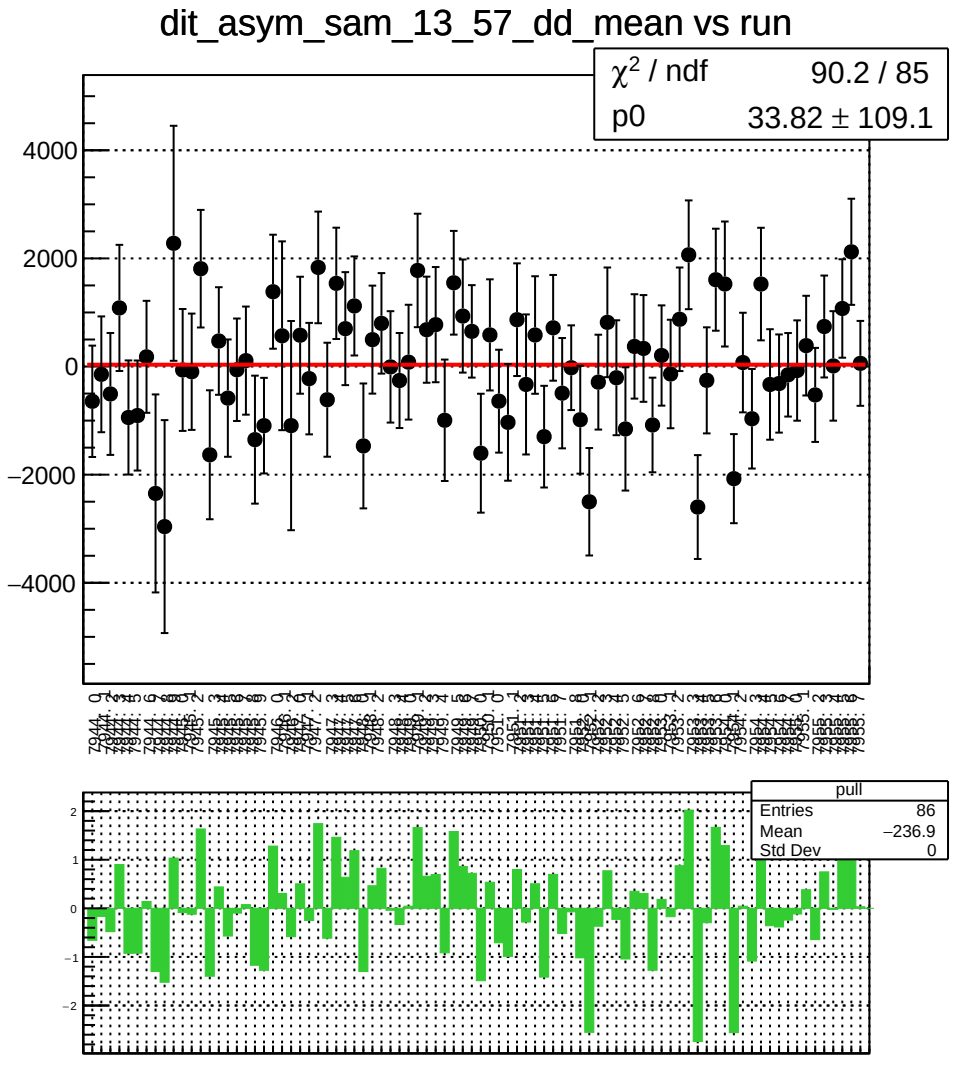

pull1D
Entries 86
Mean −0.009064
Std Dev 0.9928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

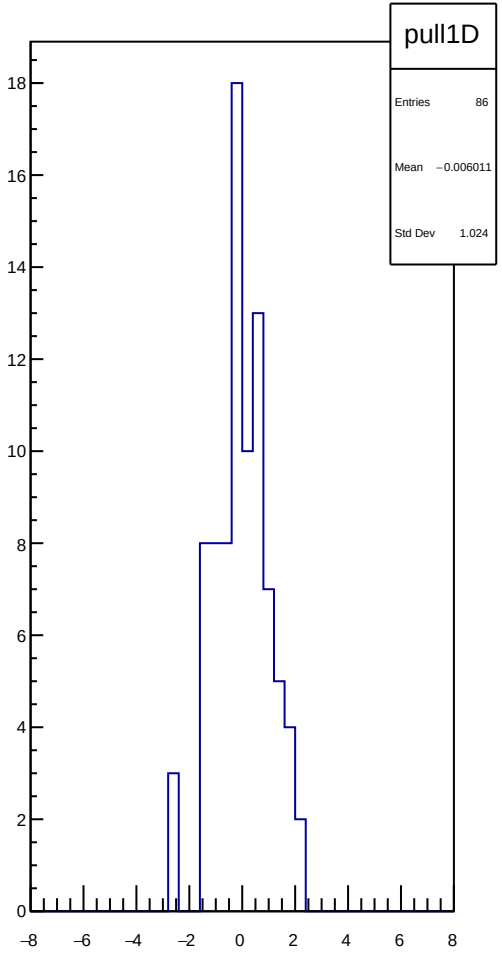

eigen_cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 2.976e+04 / 85
p0 92.23 ± 0.07315
220
200
180
160
140
120
100
80

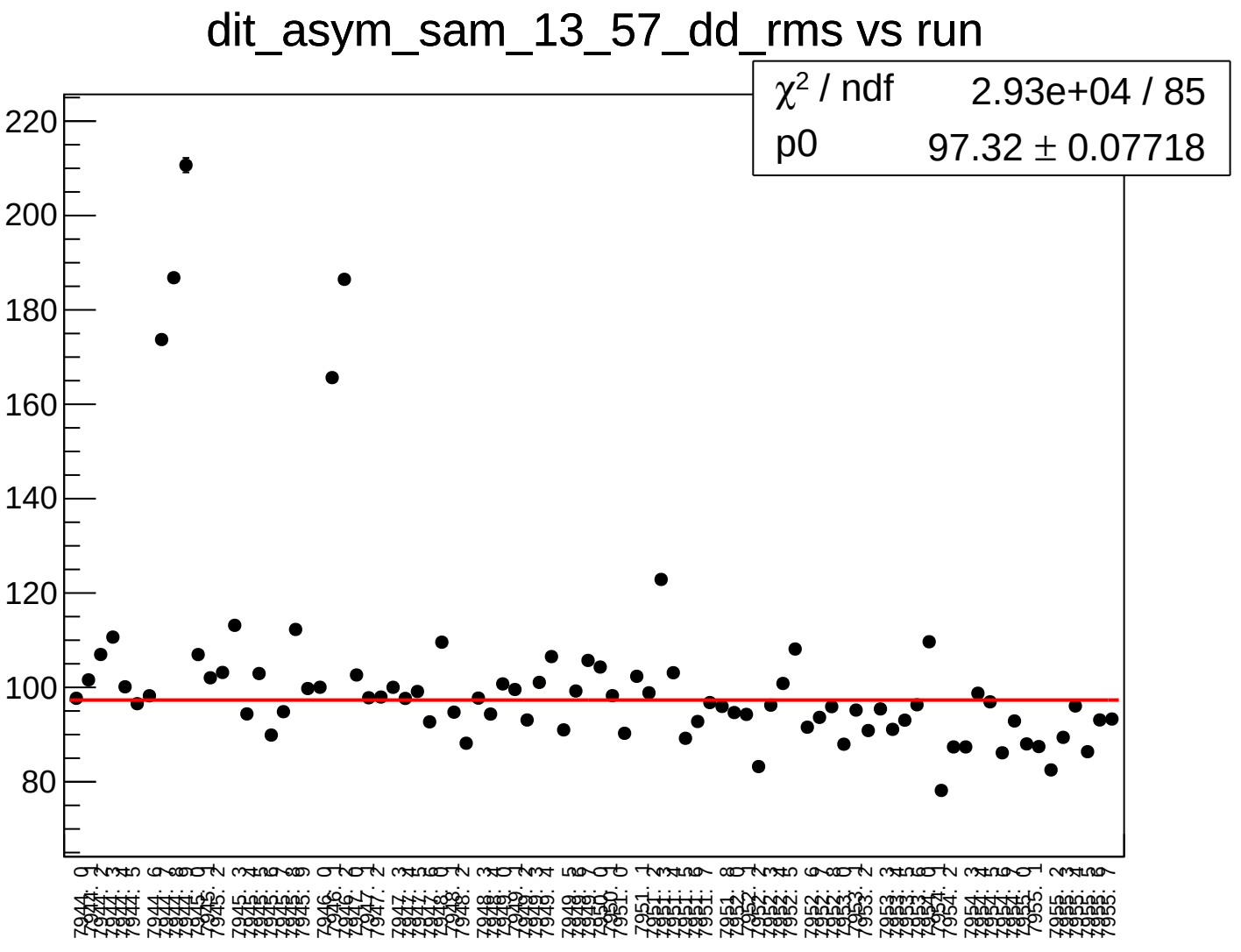

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.95 / 85
p0 526.1 ± 838.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 230.9
Std Dev 0
2
1
0
−1
−2

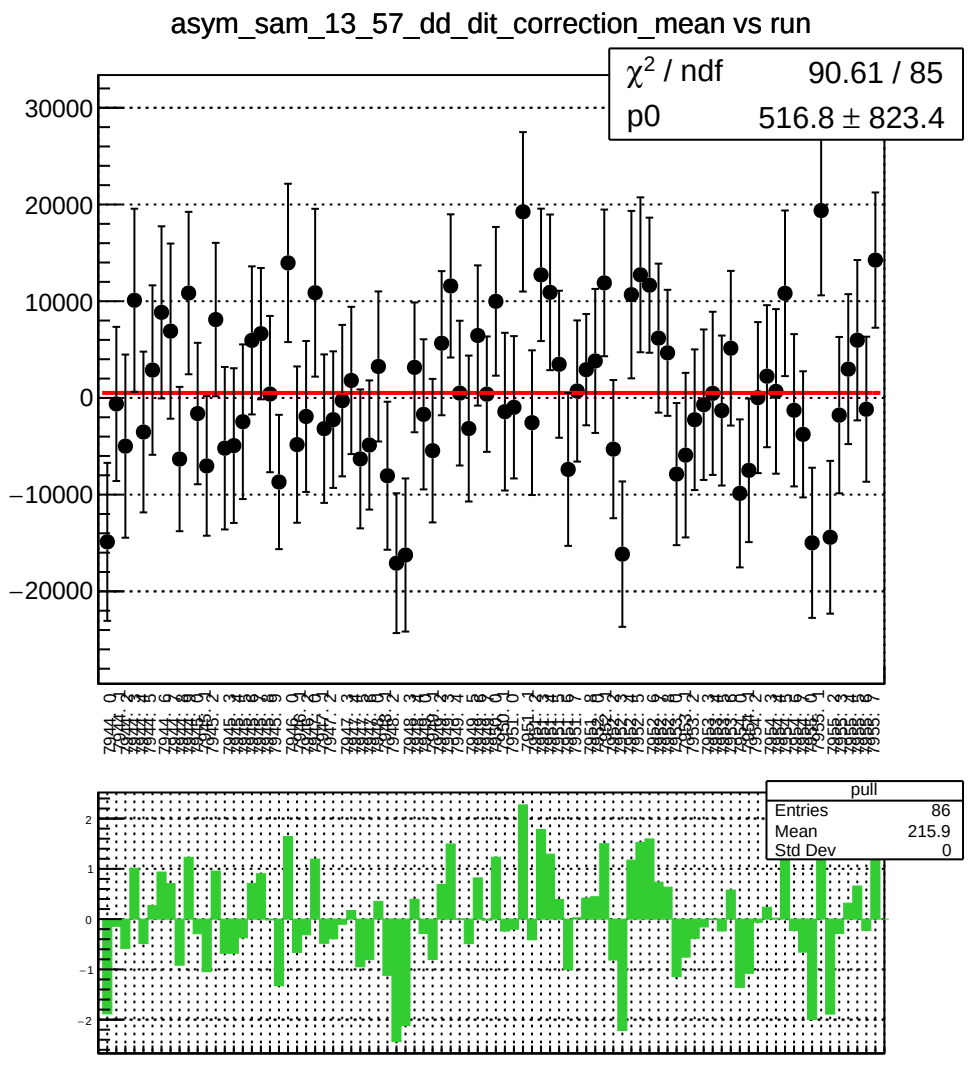

pull1D
Entries 86
Mean 0.009735
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

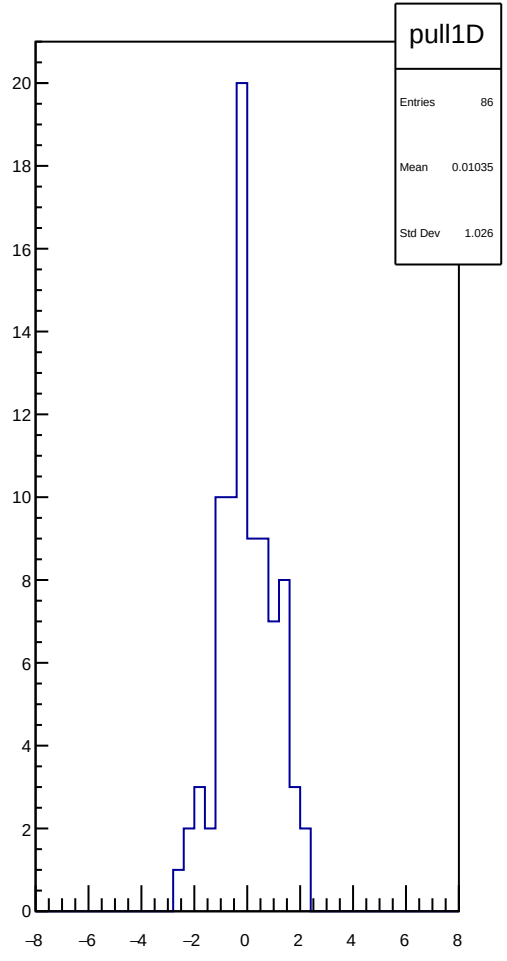

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 7876 / 85
p0 752.5 ± 0.5928
950
900
850
800
750
700
650

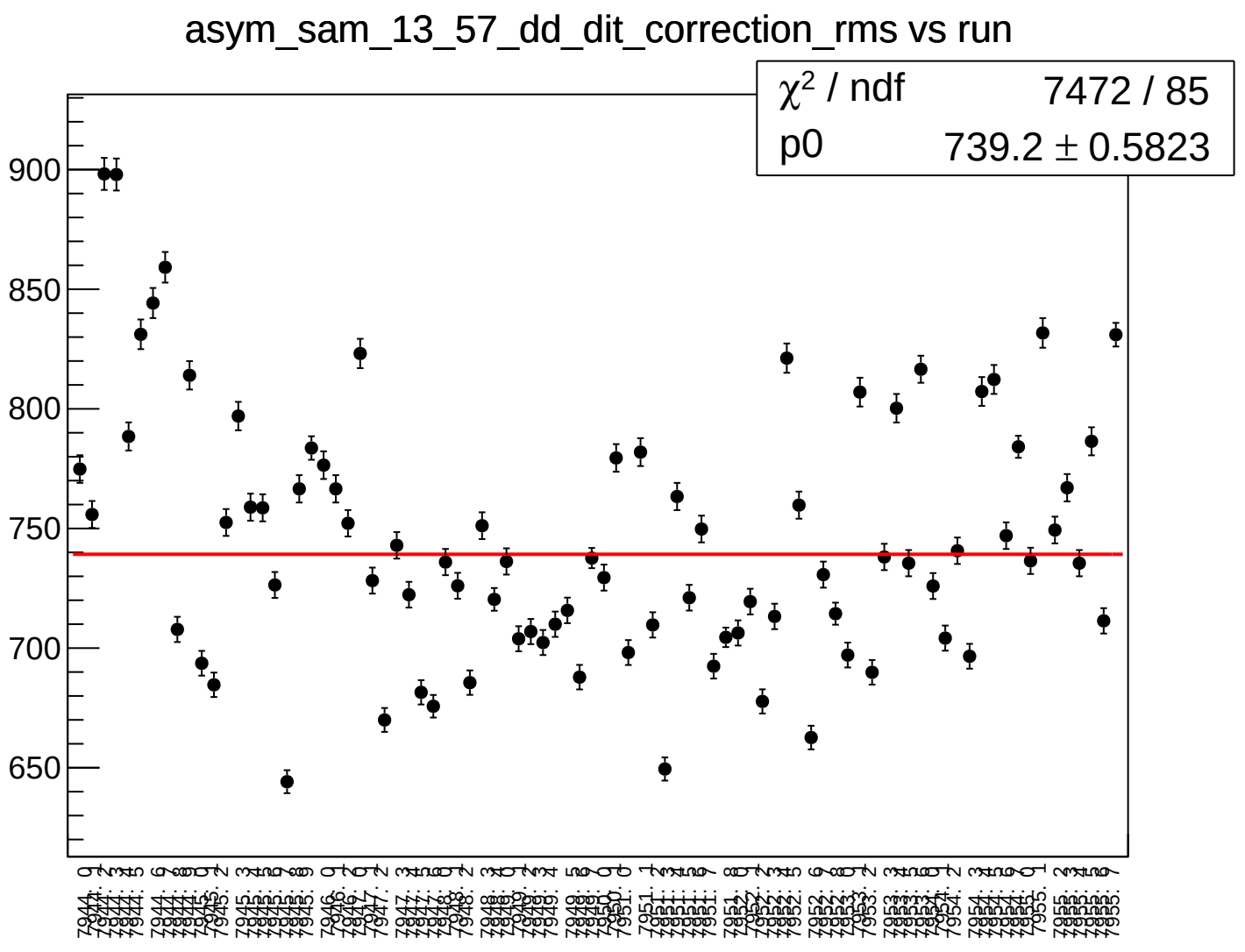

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 90.2 / 85
p0 33.82 ± 109.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −236.9
Std Dev 0
2
1
0
−1
−2

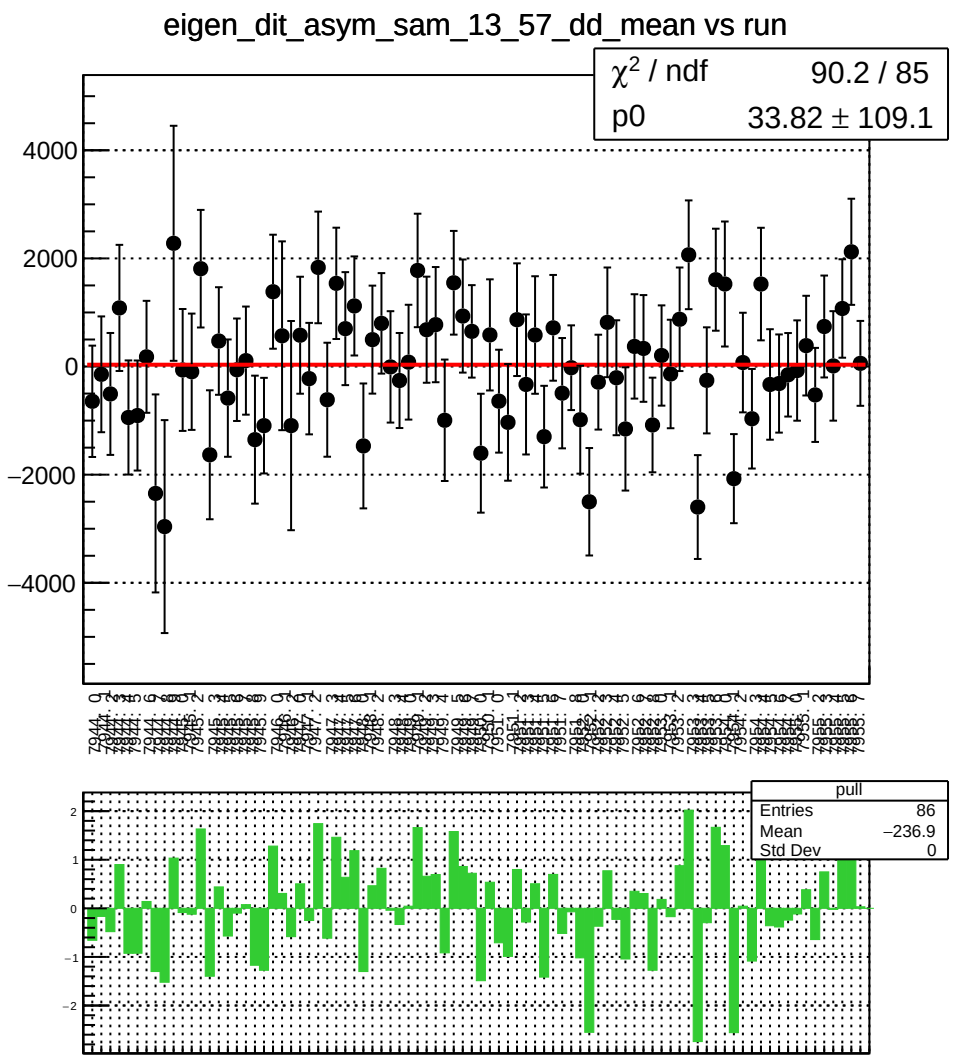

pull1D
Entries 86
Mean −0.006011
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

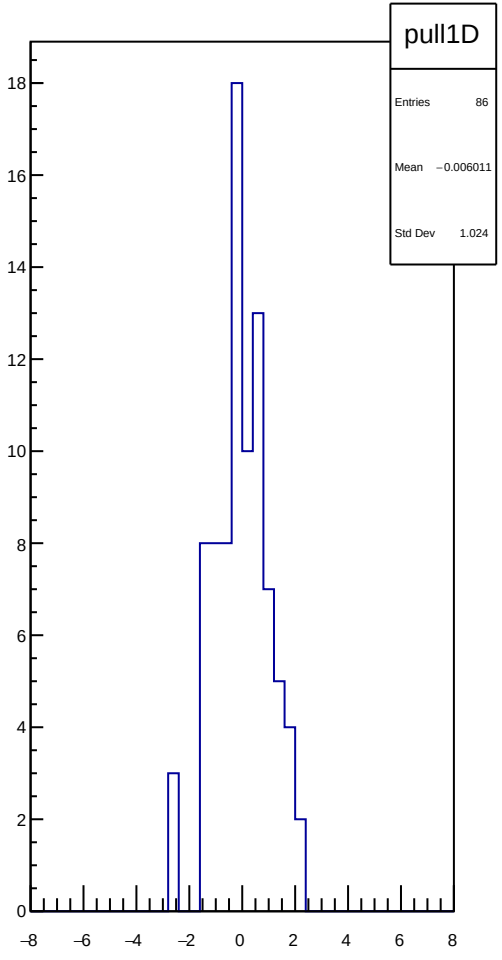

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.93e+04 / 85
p0 97.32 ± 0.07718
220
200
180
160
140
120
100
80

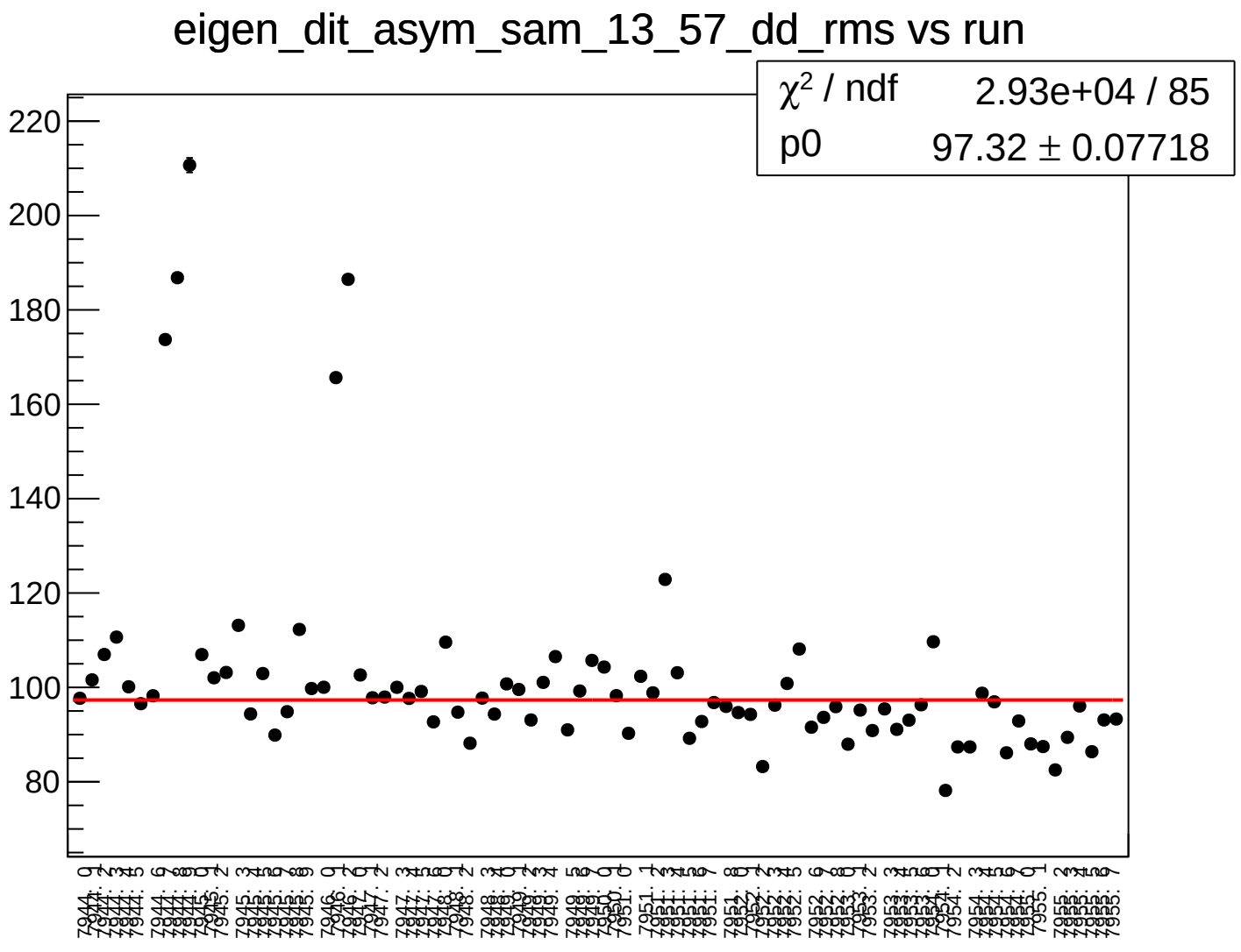

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 90.61 / 85
p0 516.8 ± 823.4
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 215.9
Std Dev 0
2
1
0
−1
−2

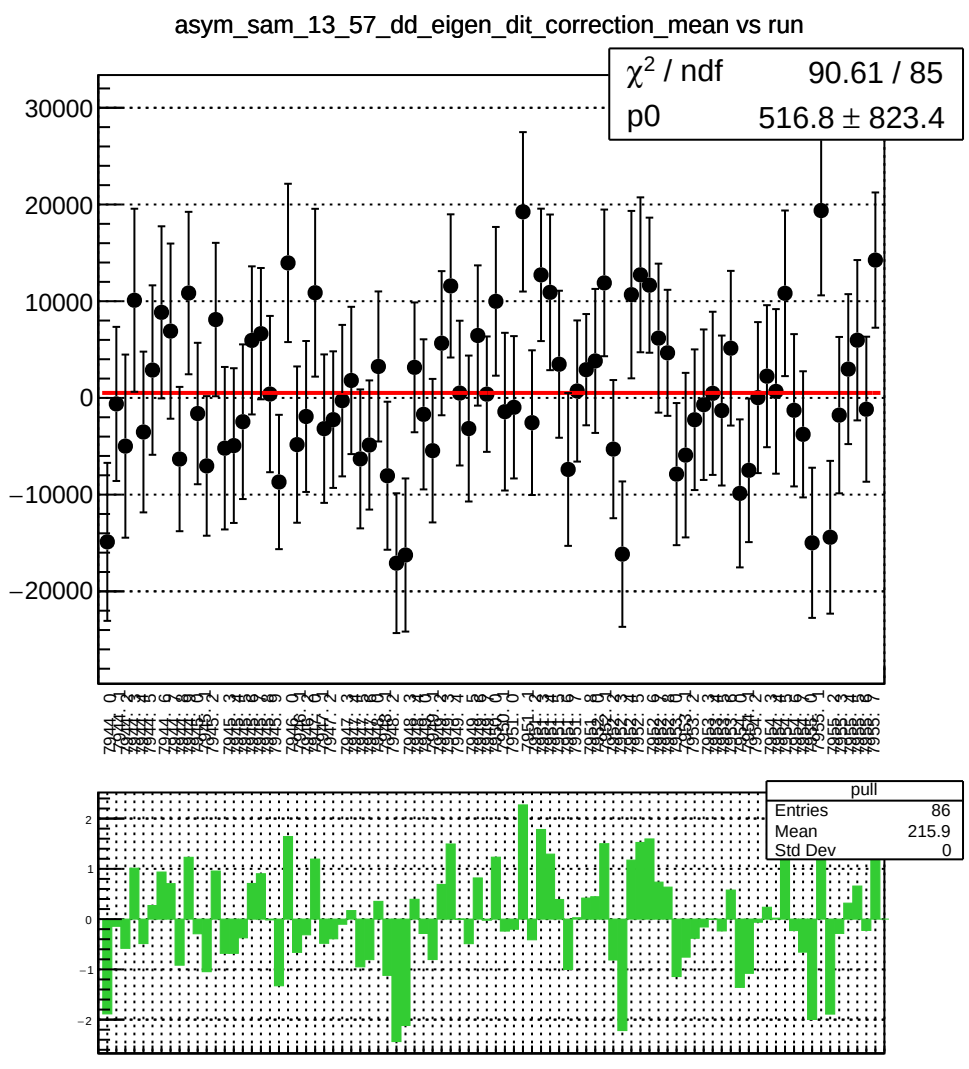

pull1D
Entries 86
Mean 0.01035
Std Dev 1.026
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

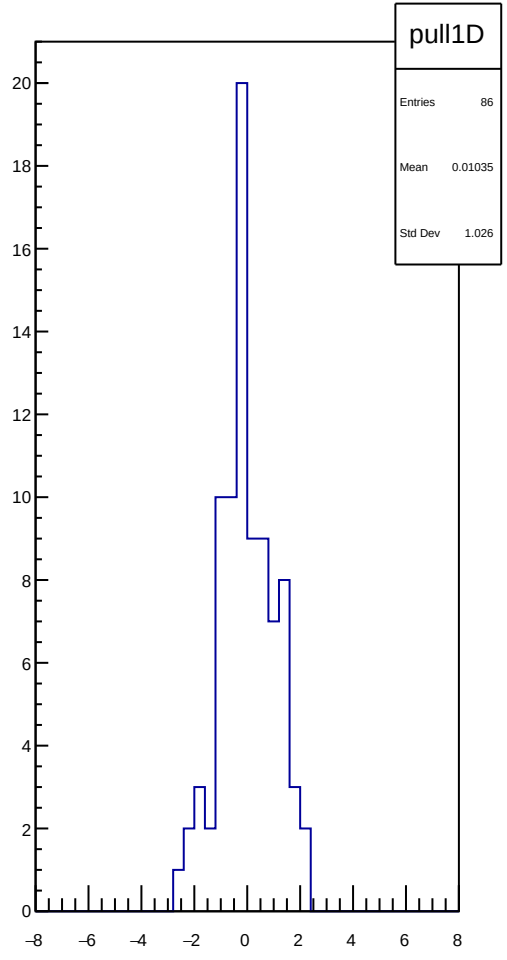

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 7472 / 85
p0 739.2 ± 0.5823
900
850
800
750
700
650

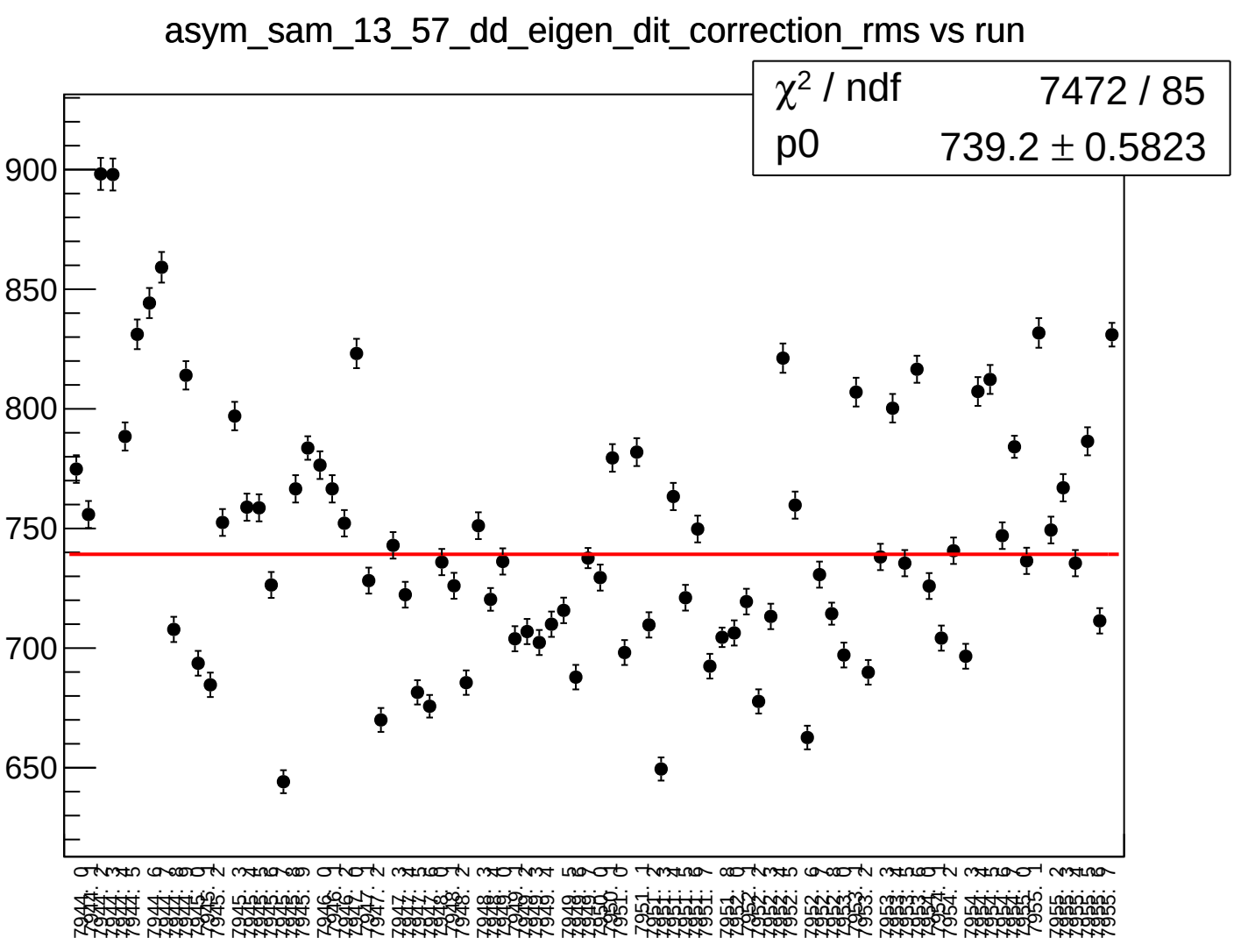

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 90.2 / 85
p0 33.82 ± 109.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −236.9
Std Dev 0
2
1
0
−1
−2

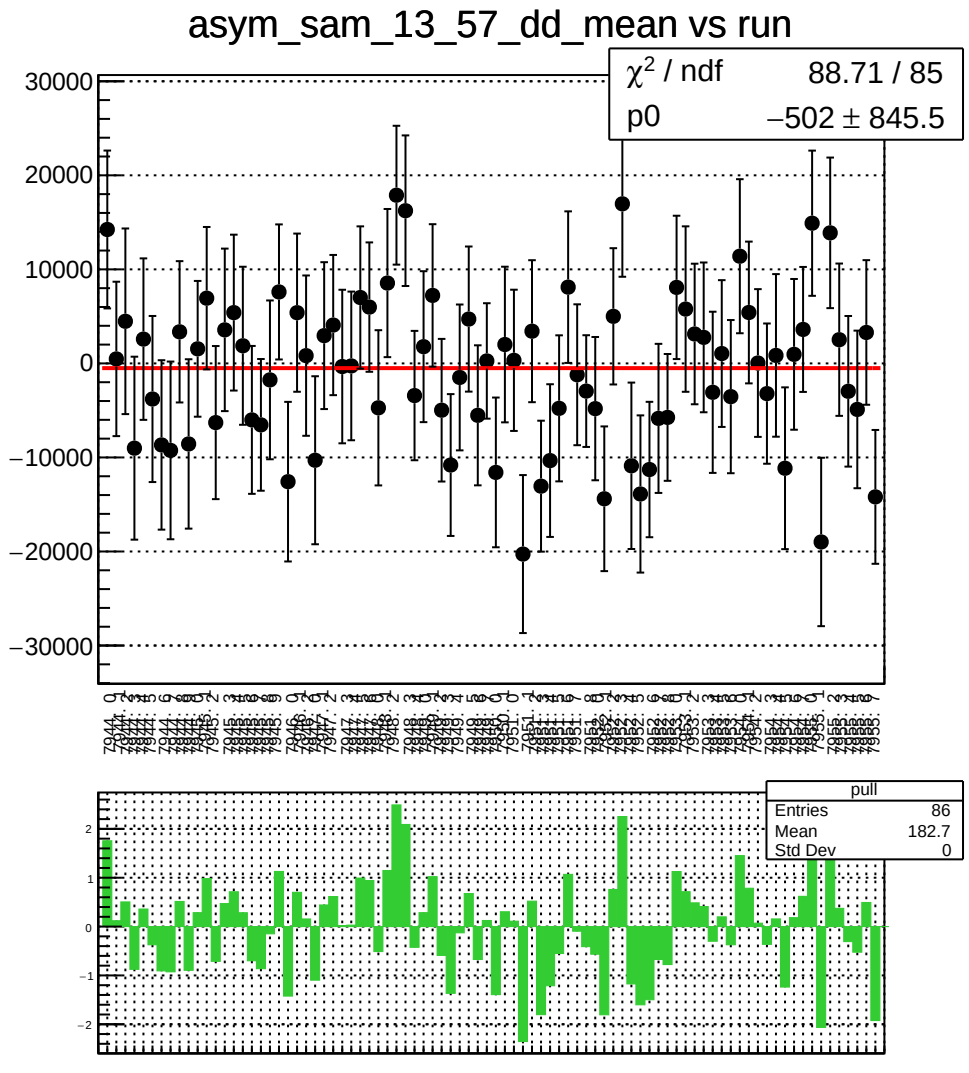

pull1D
Entries 86
Mean −0.006011
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

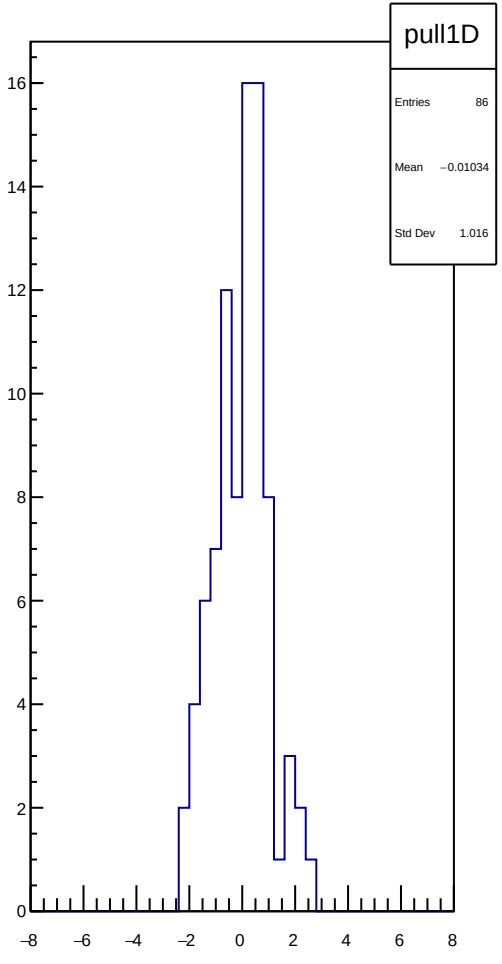

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.93e+04 / 85
p0 97.32 ± 0.07718
220
200
180
160
140
120
100
80

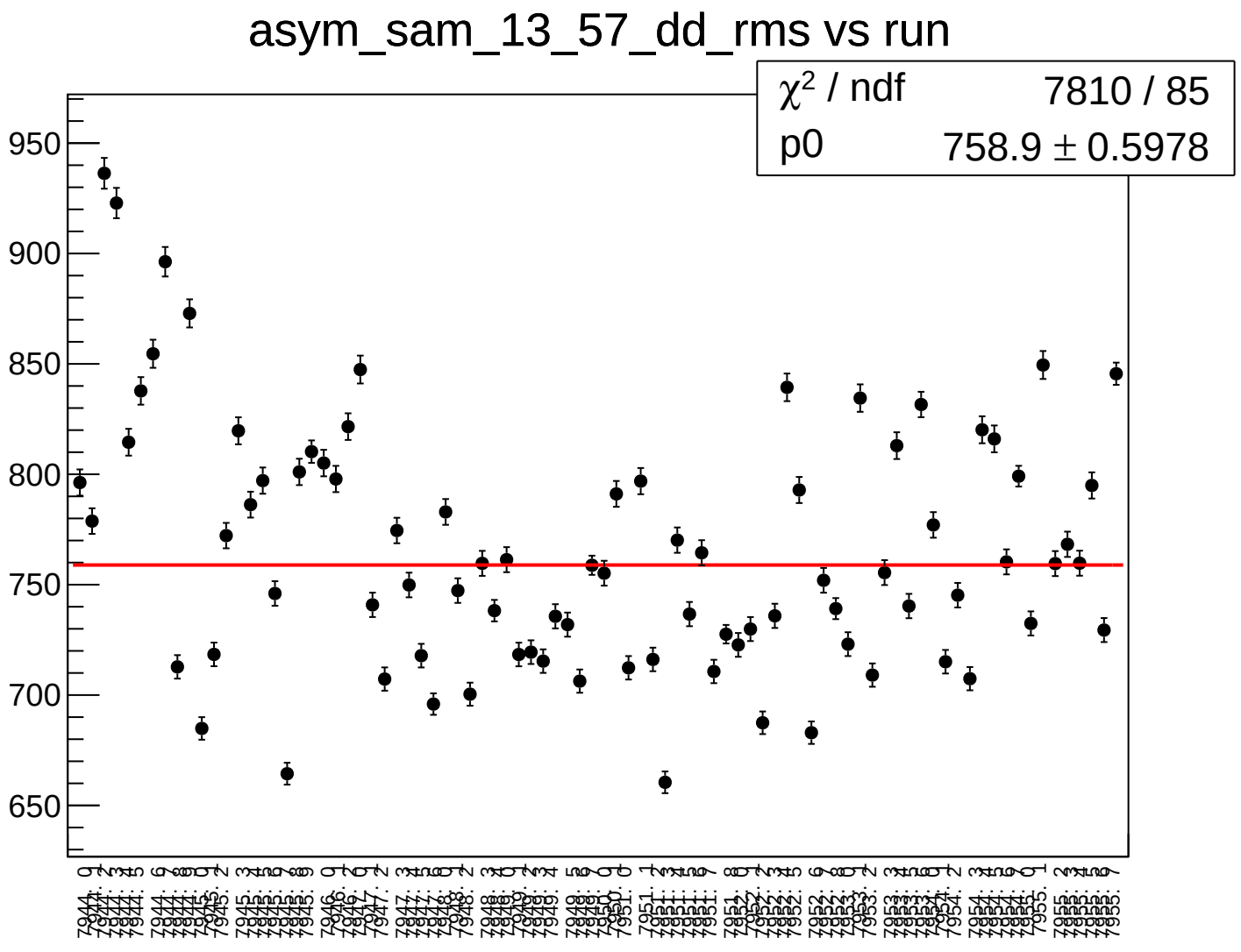

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.61 / 85
p0 516.8 ± 823.4
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 215.9
Std Dev 0
2
1
0
−1
−2

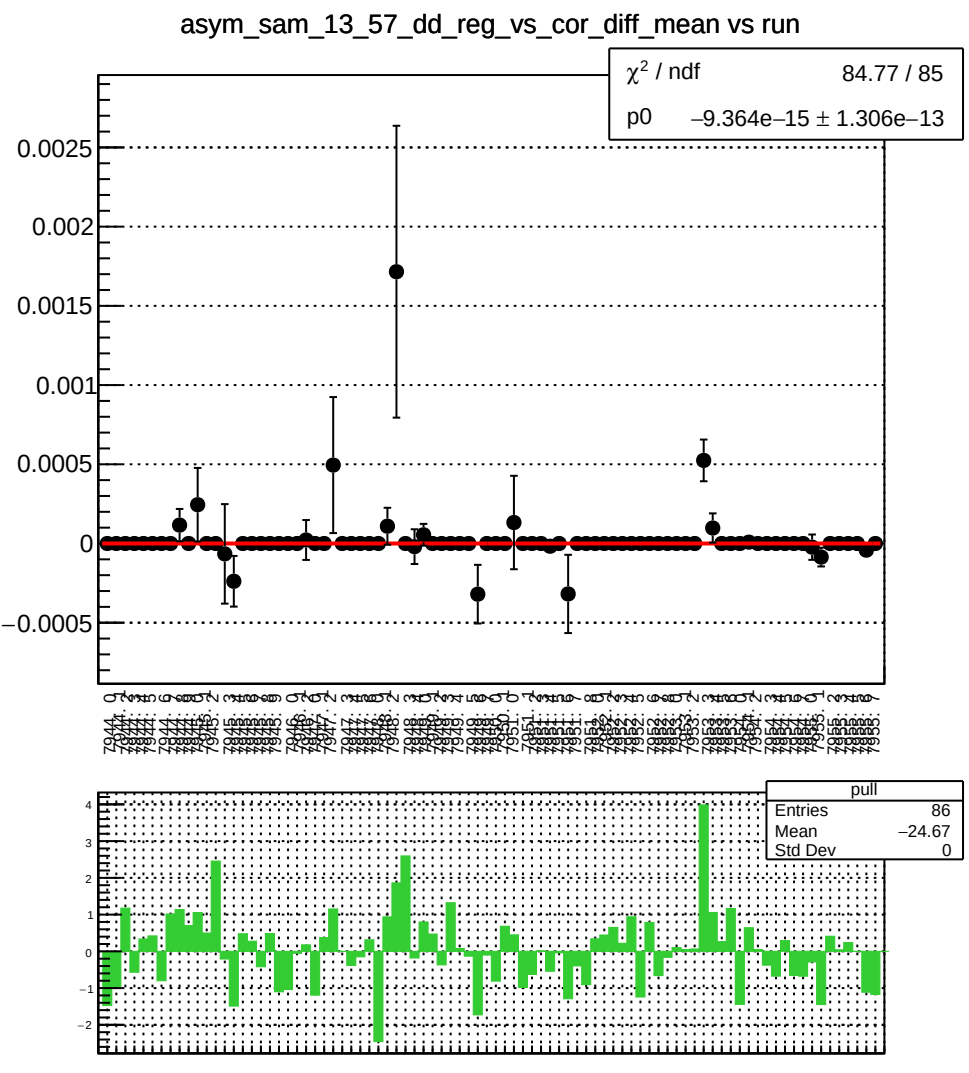

pull1D
Entries 86
Mean 0.01035
Std Dev 1.026
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

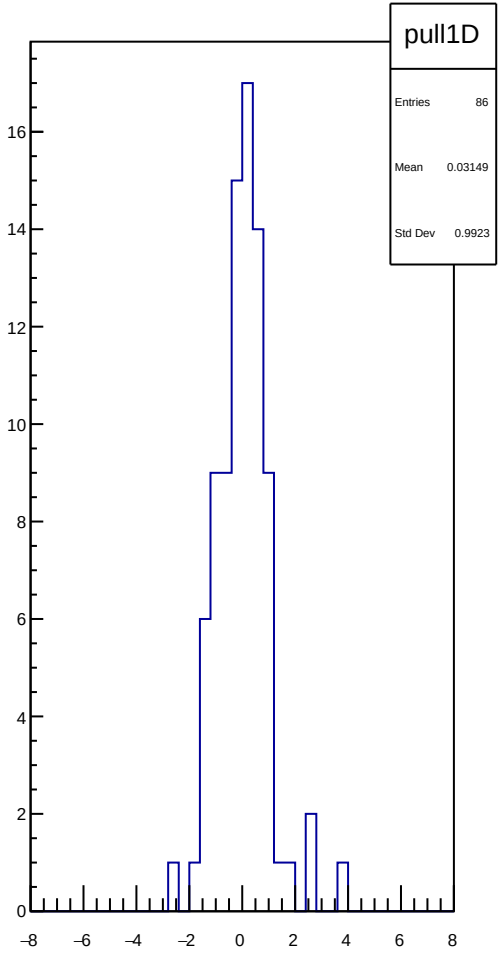

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 7472 / 85
p0 739.2 ± 0.5823
900
850
800
750
700
650

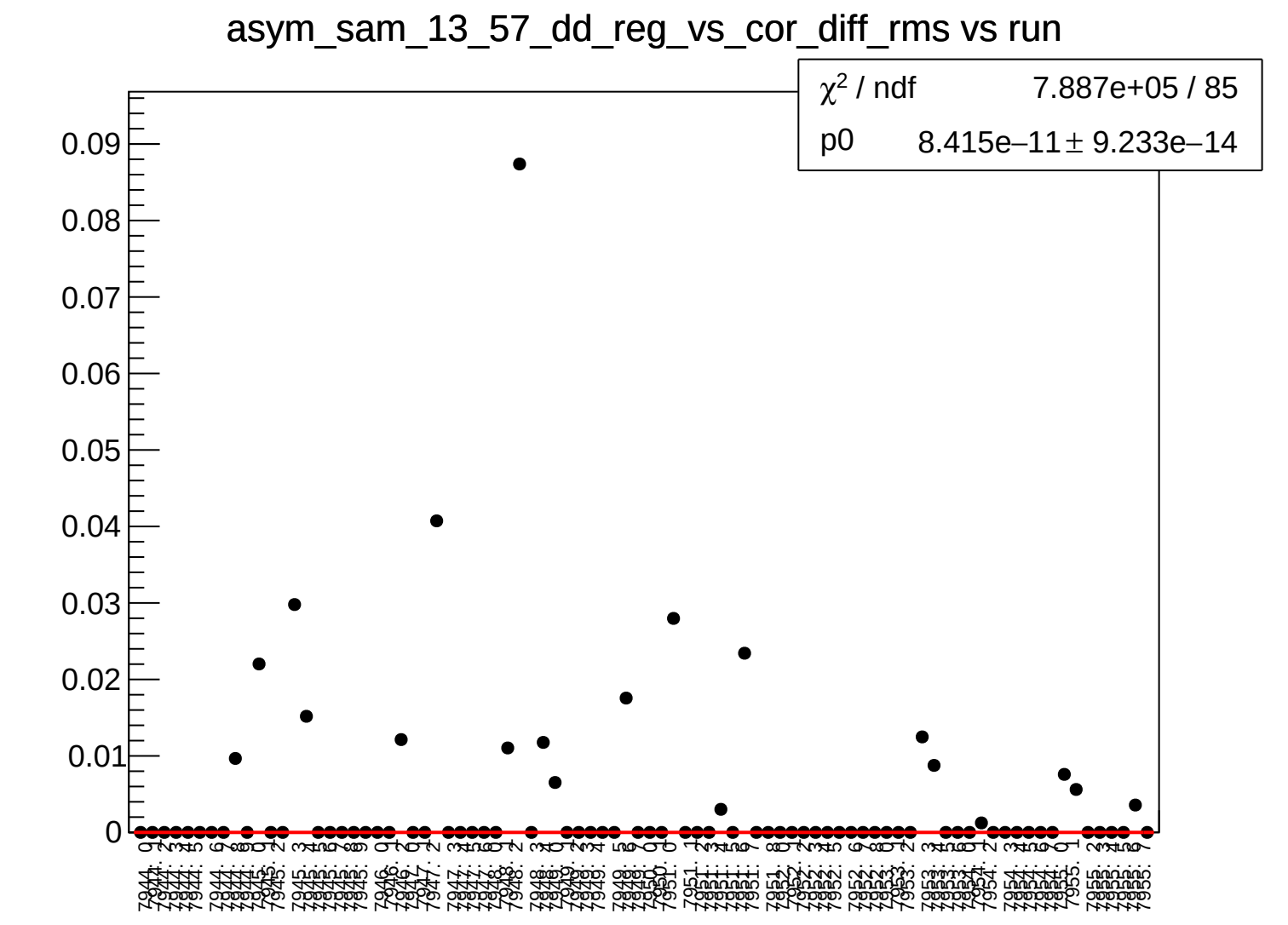

asym_sam_13_57_dd_mean vs run
χ² / ndf 88.71 / 85
p0 −502 ± 845.5
pull
Entries 86
Mean 182.7
Std Dev 0

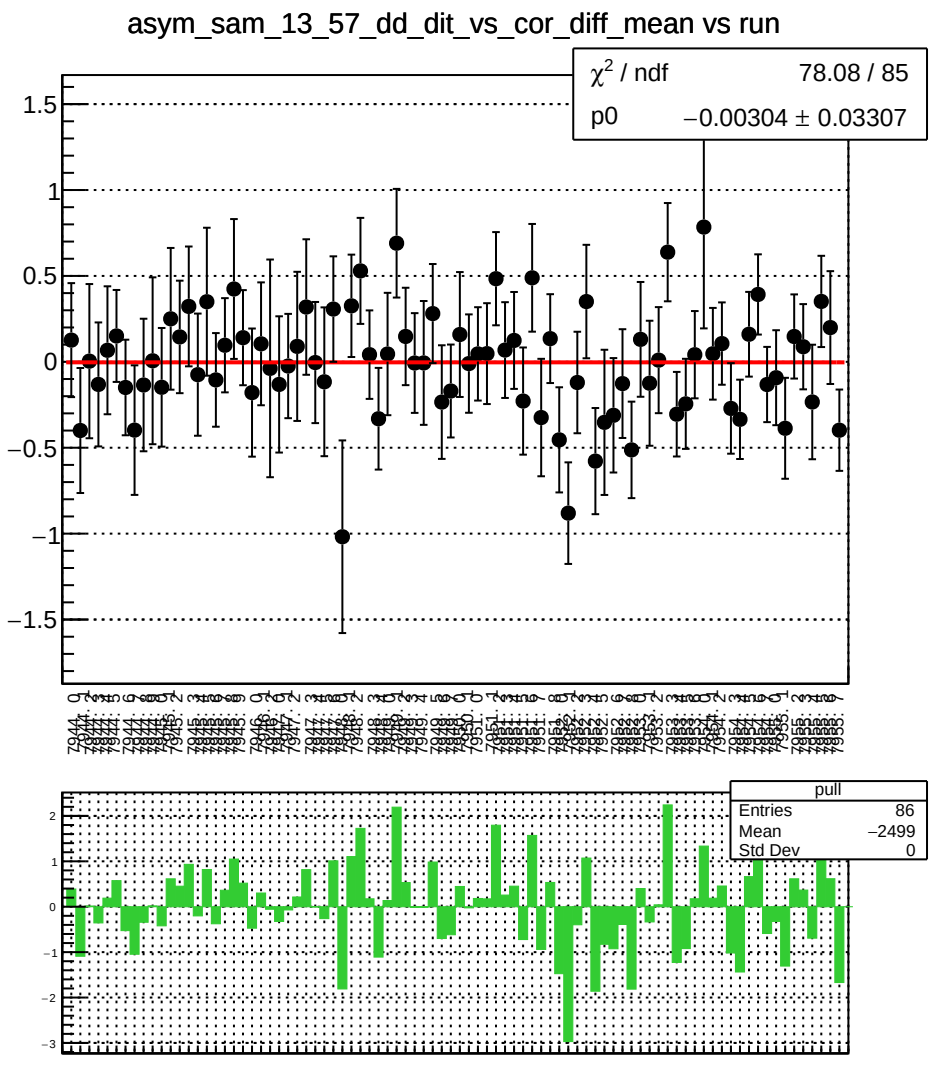

pull1D
Entries 86
Mean −0.01034
Std Dev 1.016

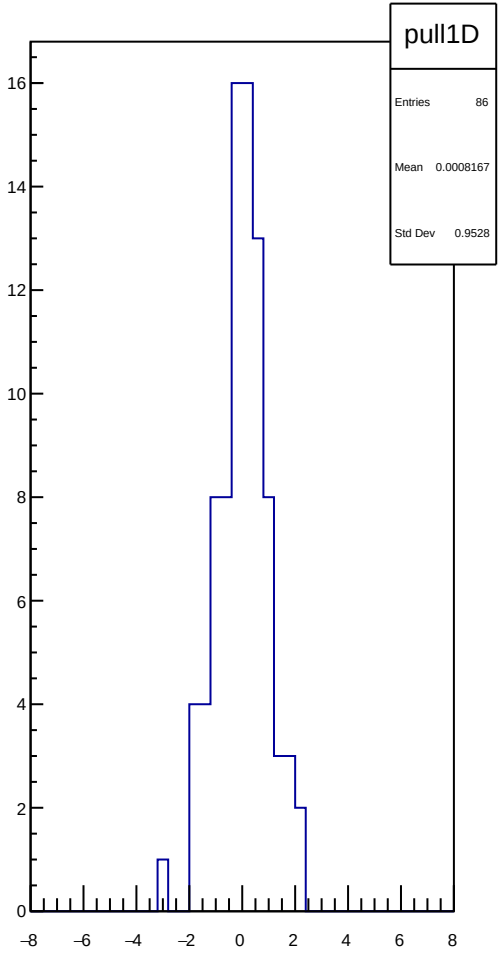

asym_sam_13_57_dd_rms vs run
χ² / ndf 7810 / 85
p0 758.9 ± 0.5978
950
900
850
800
750
700
650

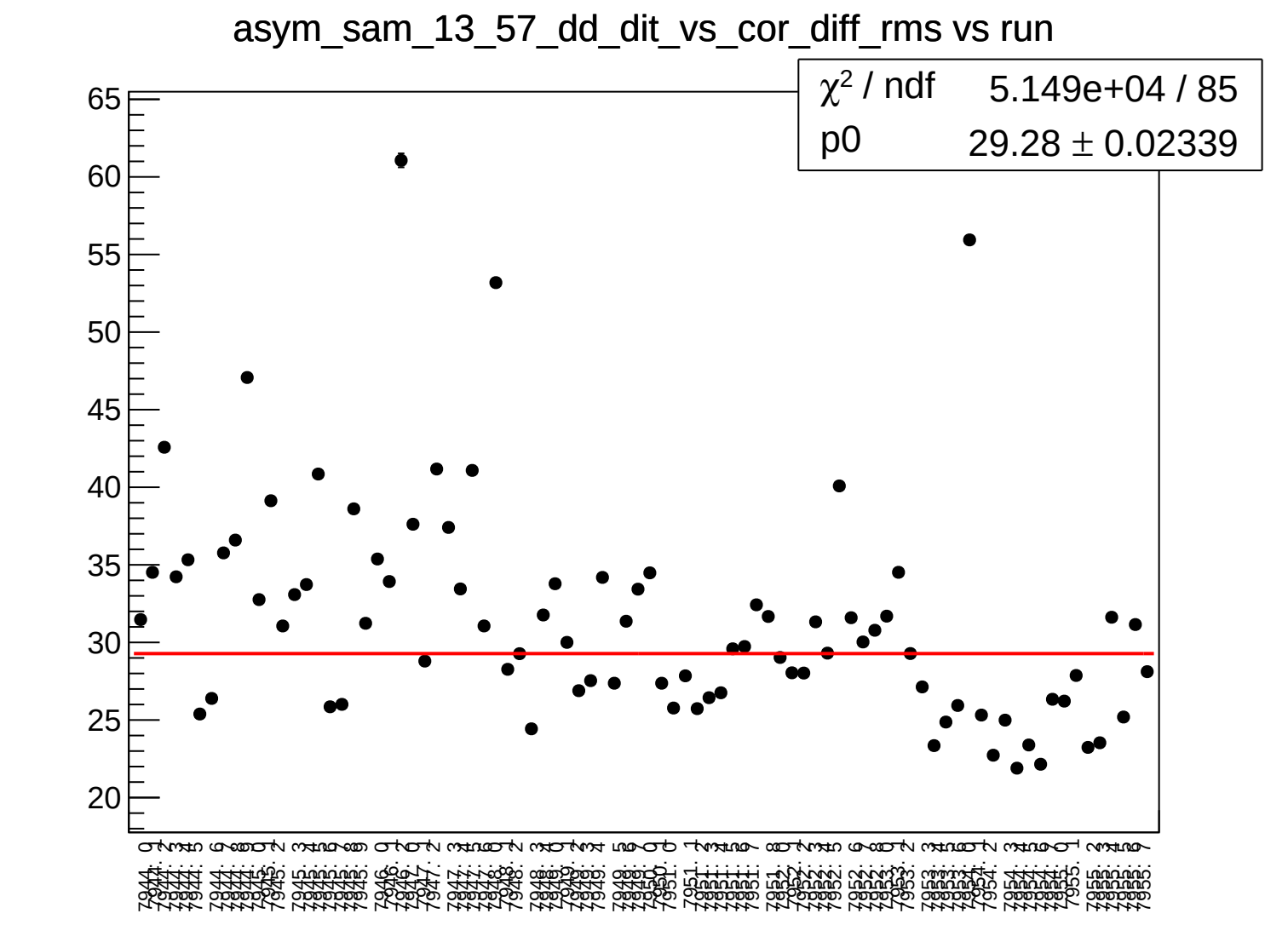

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.77 / 85
p0 −9.364e−15 ± 1.306e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 86
Mean −24.67
Std Dev 0
4
3
2
1
0
−1
−2

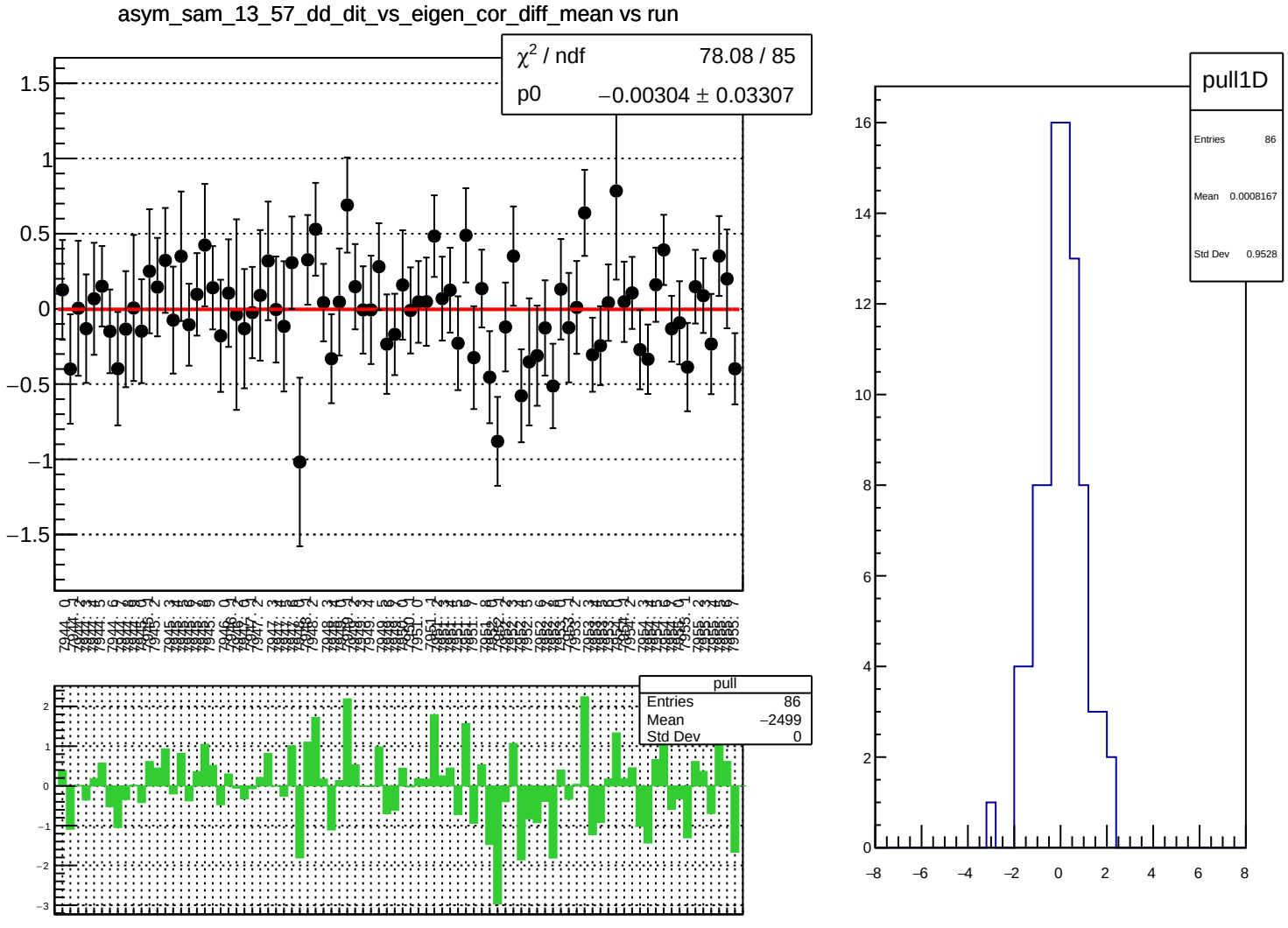

pull1D
Entries 86
Mean 0.03149
Std Dev 0.9923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

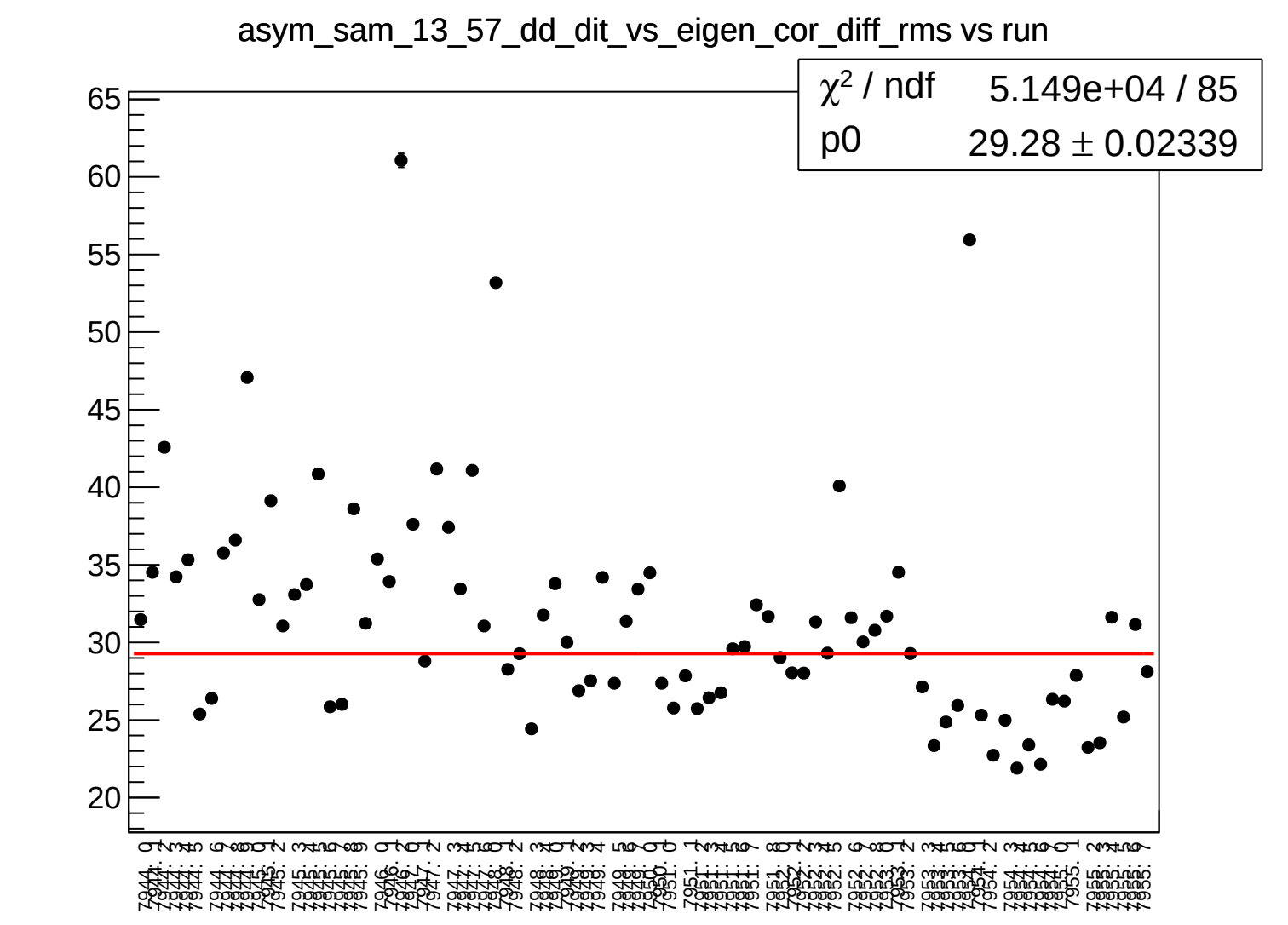

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.887e+05 / 85
p0 8.415e−11 ± 9.233e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

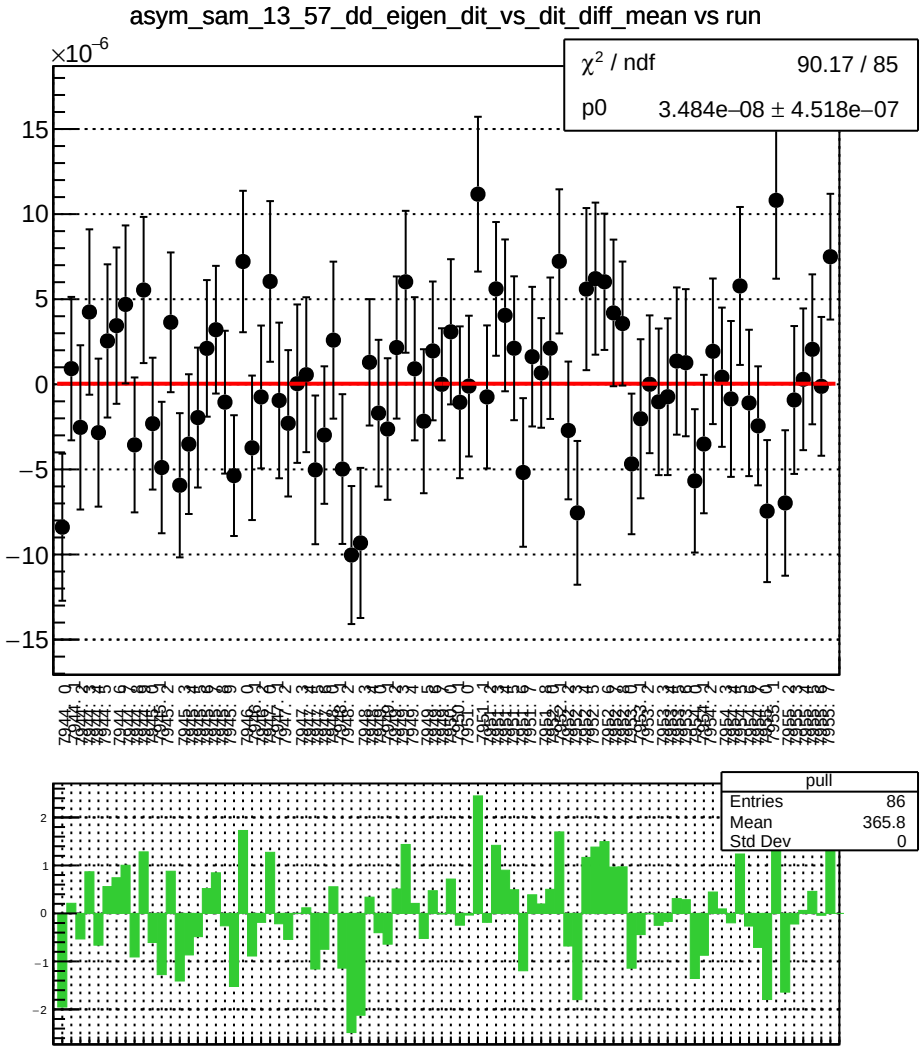

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.08 / 85
p0 −0.00304 ± 0.03307
pull
Entries 86
Mean −2499
Std Dev 0

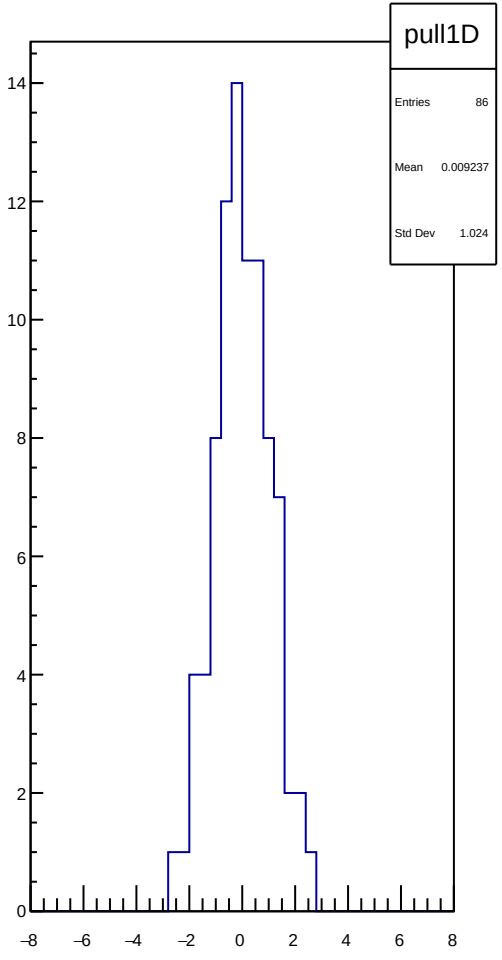

pull1D
Entries 86
Mean 0.0008167
Std Dev 0.9528

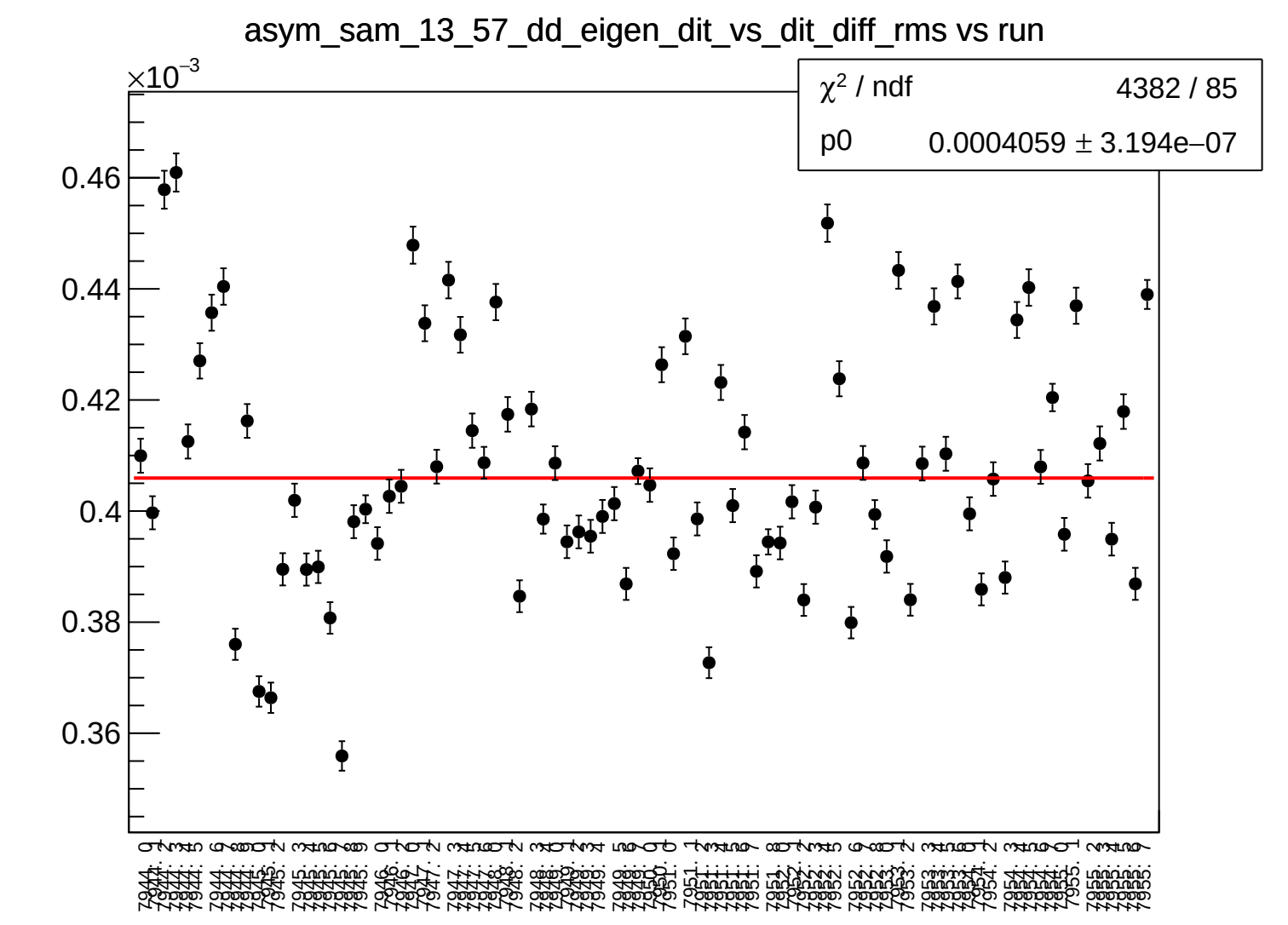

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.149e+04 / 85
p0 29.28 ± 0.02339
65
60
55
50
45
40
35
30
25
20

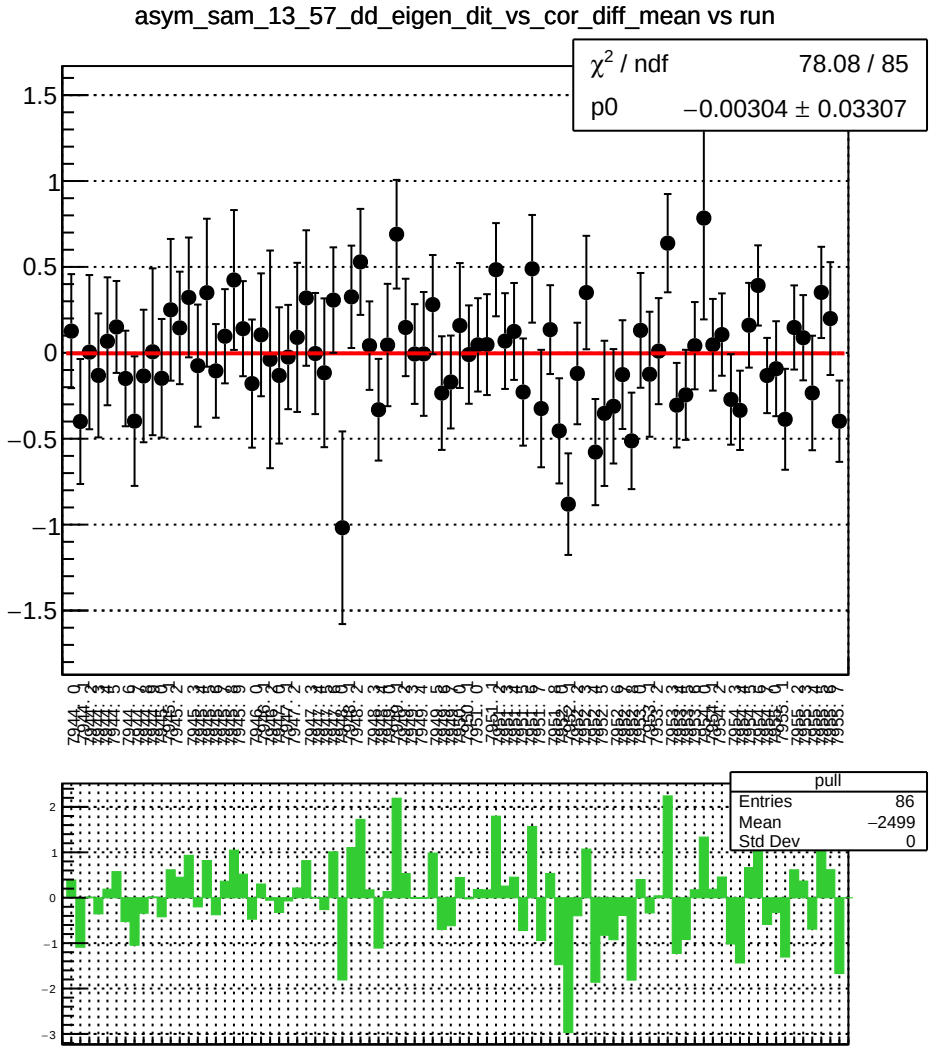

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.08 / 85
p0 −0.00304 ± 0.03307
pull
Entries 86
Mean −2499
Std Dev 0
pull1D
Entries 86
Mean 0.0008167
Std Dev 0.9528

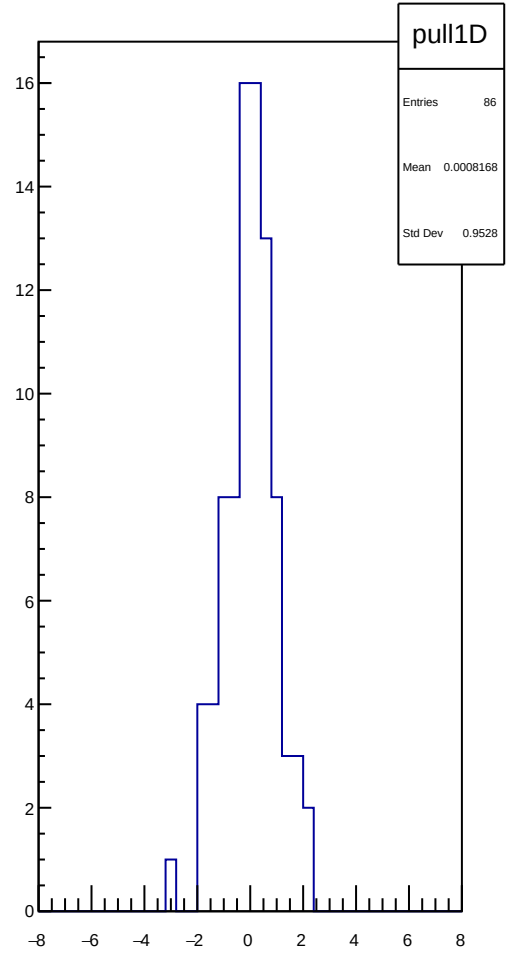

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.149e+04 / 85
p0 29.28 ± 0.02339
65
60
55
50
45
40
35
30
25
20

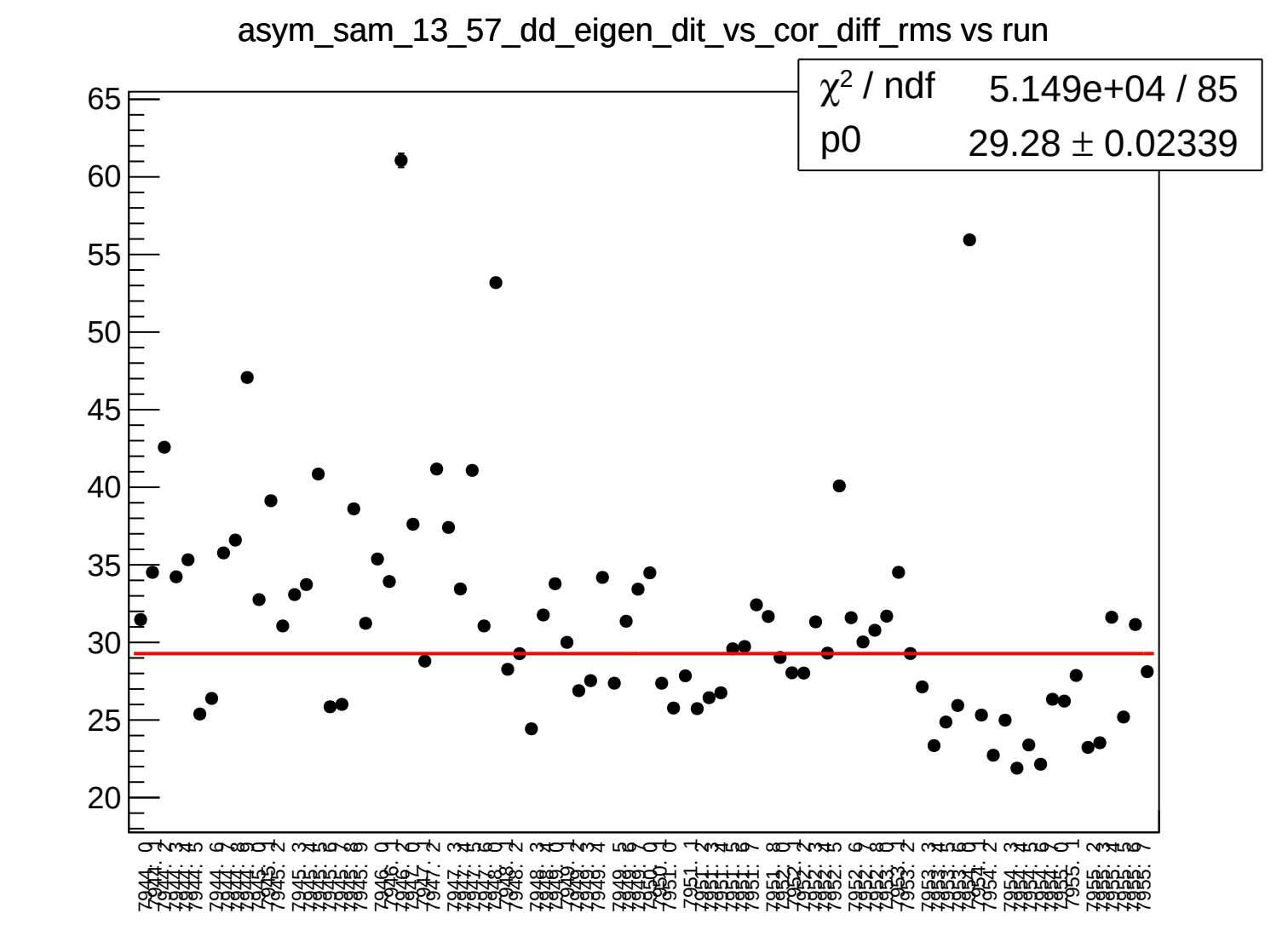

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 90.17 / 85
p0 3.484e−08 ± 4.518e−07
pull
Entries 86
Mean 365.8
Std Dev 0

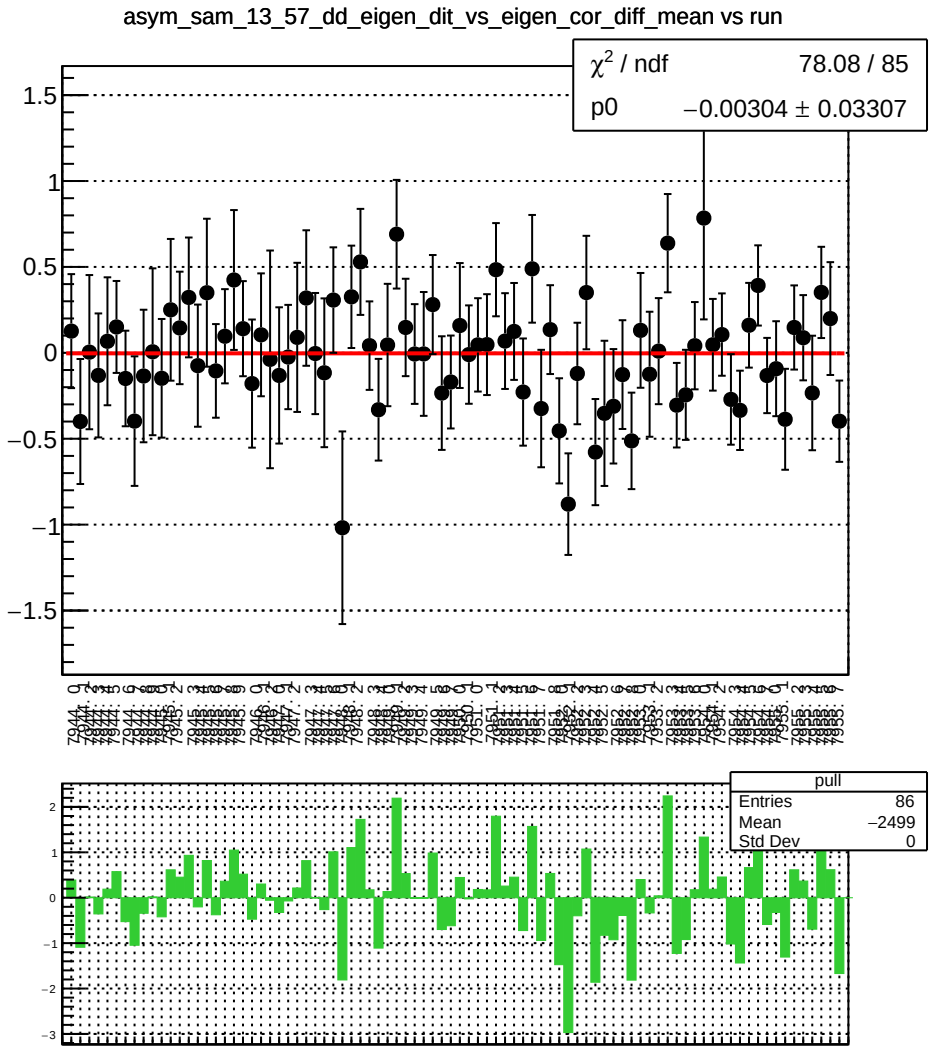

pull1D
Entries 86
Mean 0.009237
Std Dev 1.024

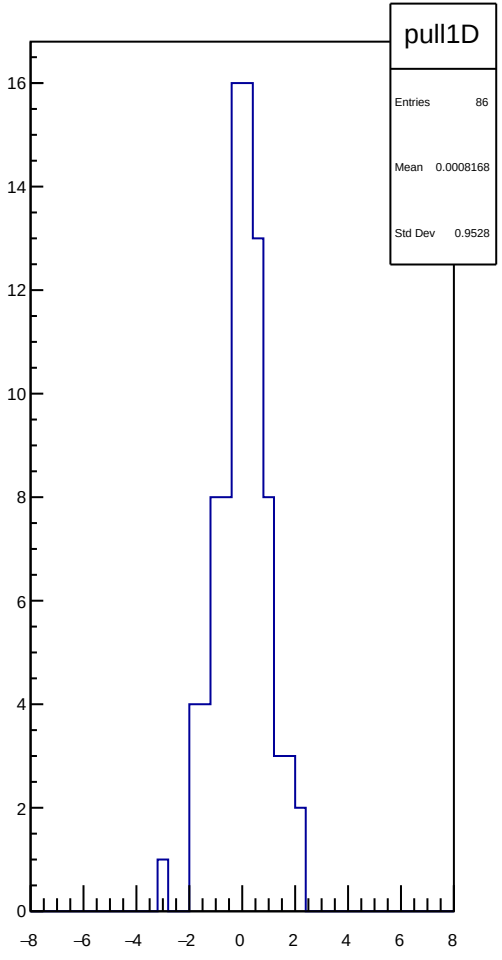

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4382 / 85
p0 0.0004059 ± 3.194e−07
0.46
0.44
0.42
0.4
0.38
0.36

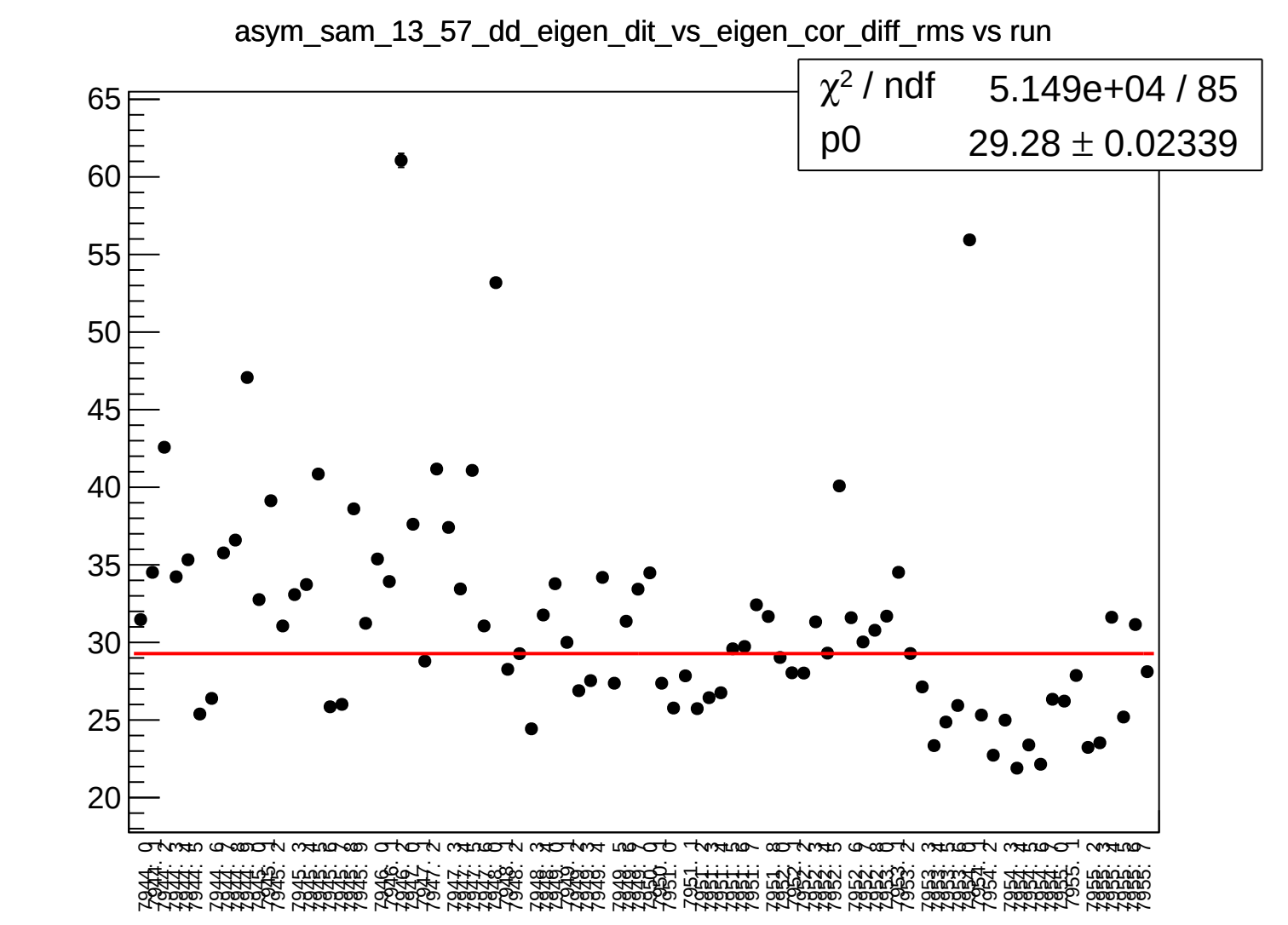

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.08 / 85
p0 −0.00304 ± 0.03307
pull
Entries 86
Mean −2499
Std Dev 0

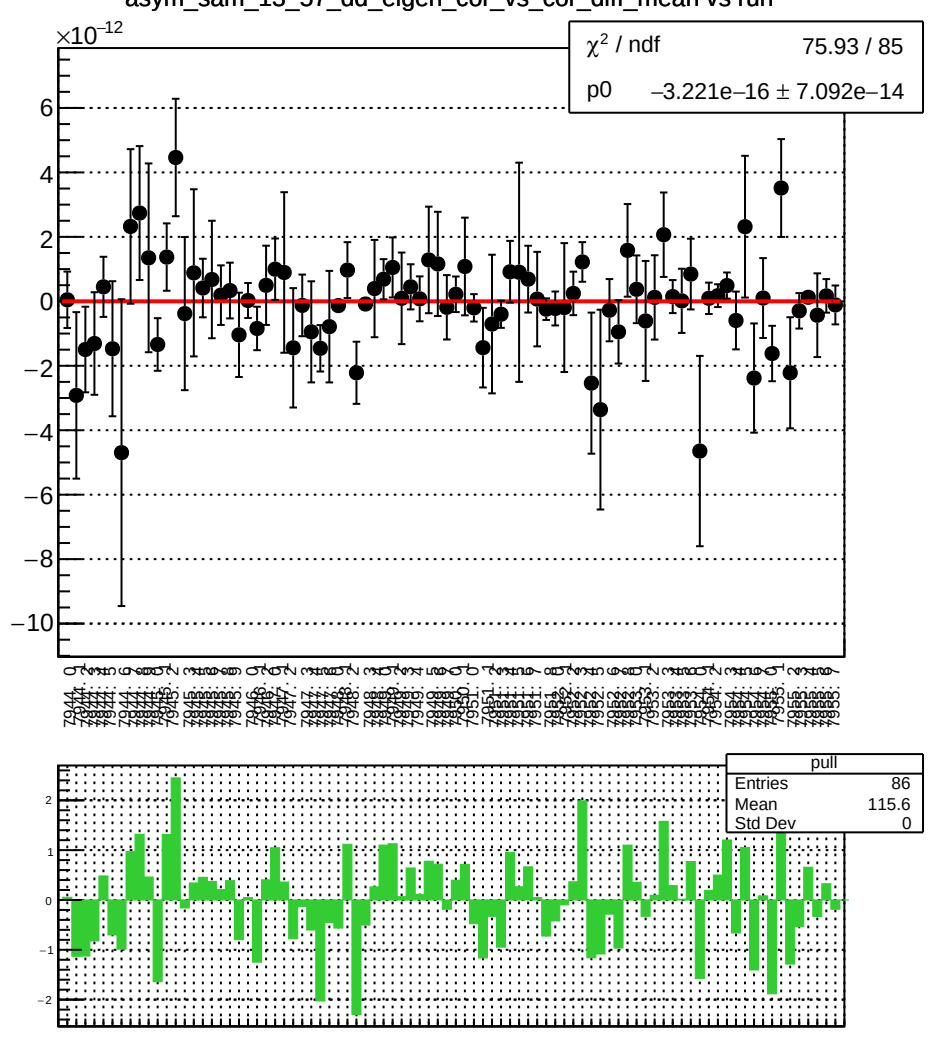

pull1D
Entries 86
Mean 0.0008168
Std Dev 0.9528

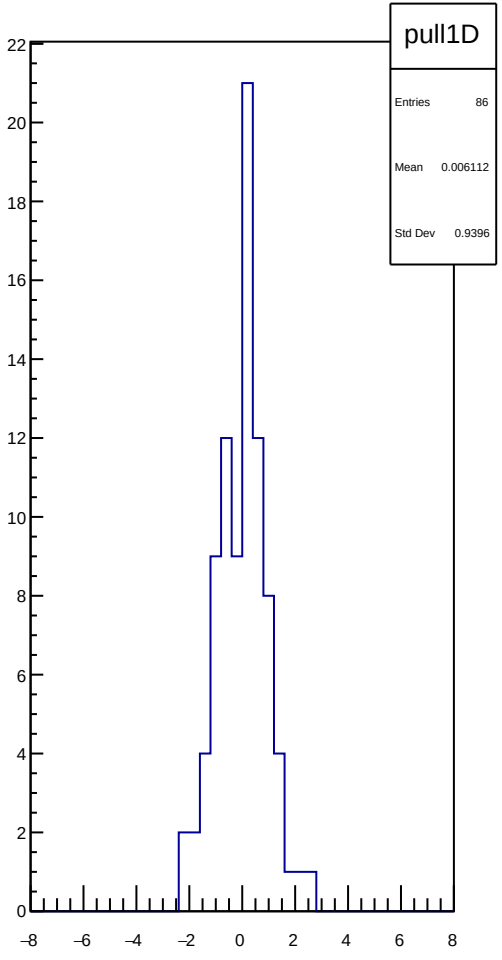

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.149e+04 / 85
p0 29.28 ± 0.02339
65
60
55
50
45
40
35
30
25
20

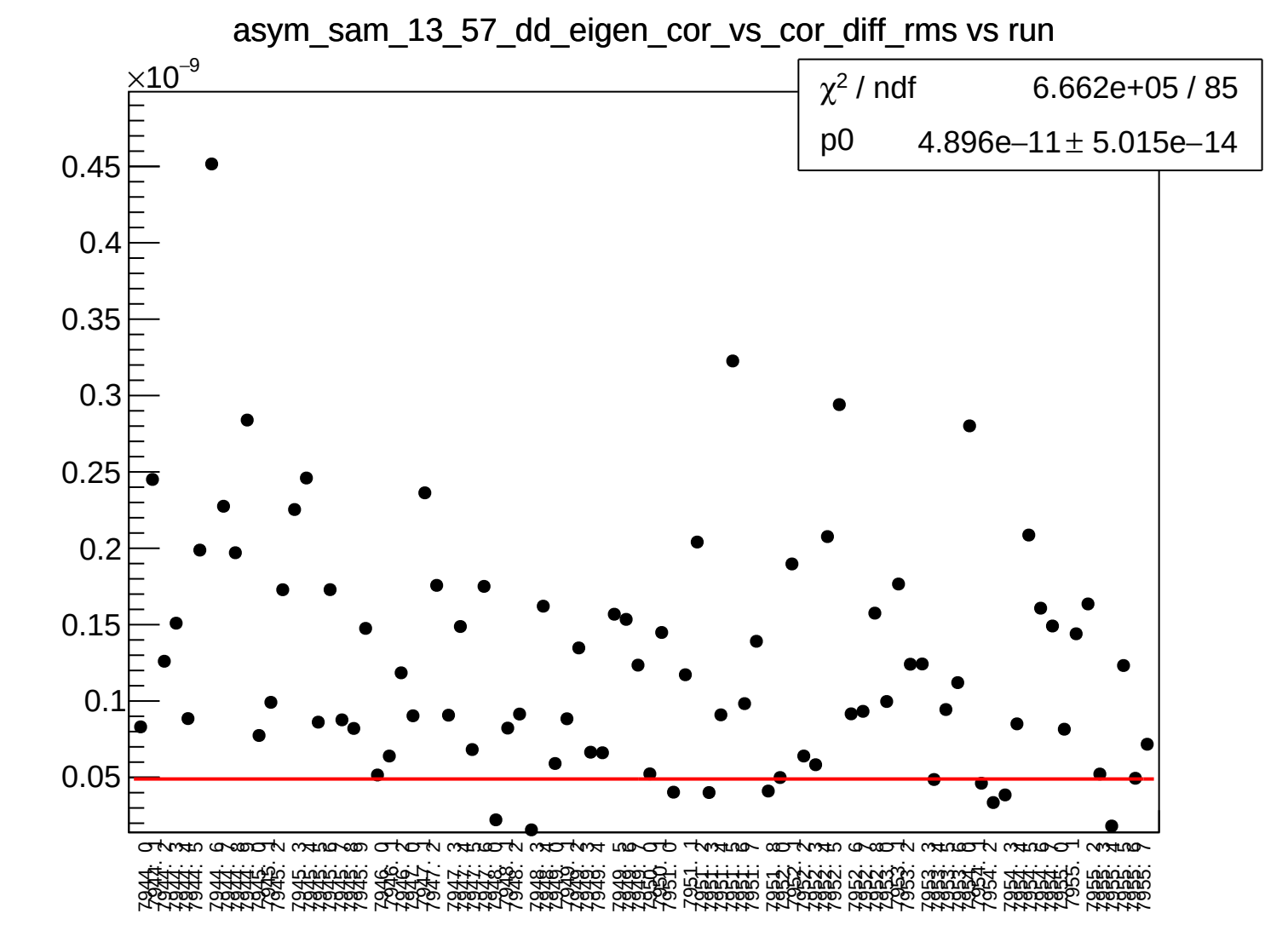

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.08 / 85
p0 −0.00304 ± 0.03307
pull
Entries 86
Mean −2499
Std Dev 0

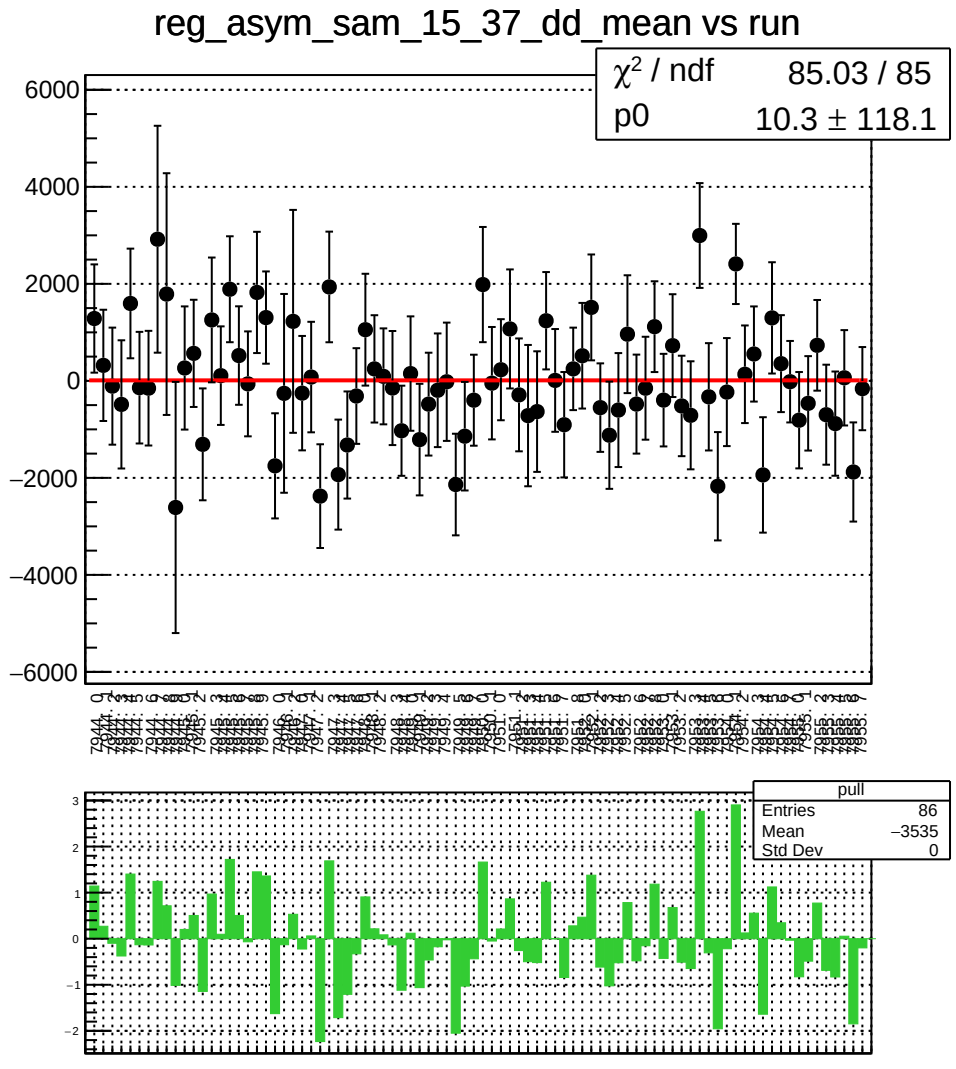

pull1D
Entries 86
Mean 0.0008168
Std Dev 0.9528

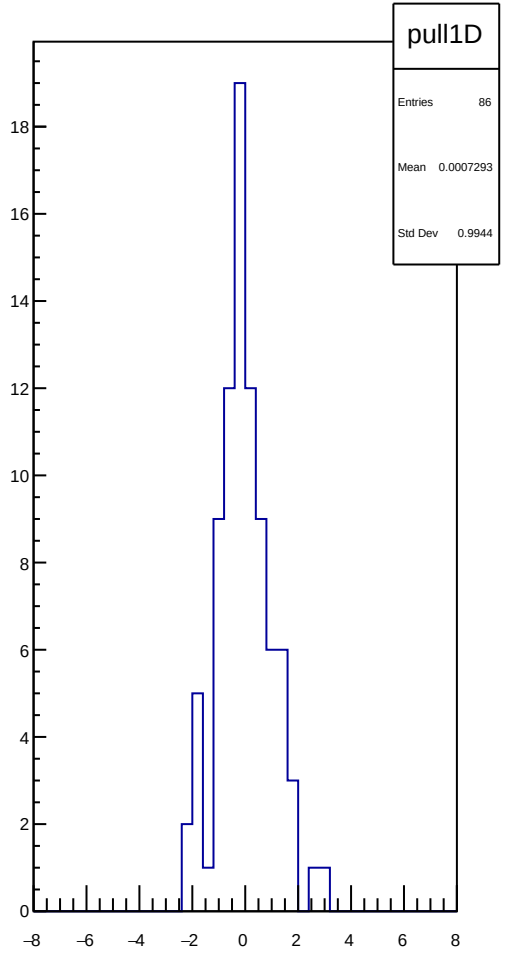

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.149e+04 / 85
p0 29.28 ± 0.02339
65
60
55
50
45
40
35
30
25
20

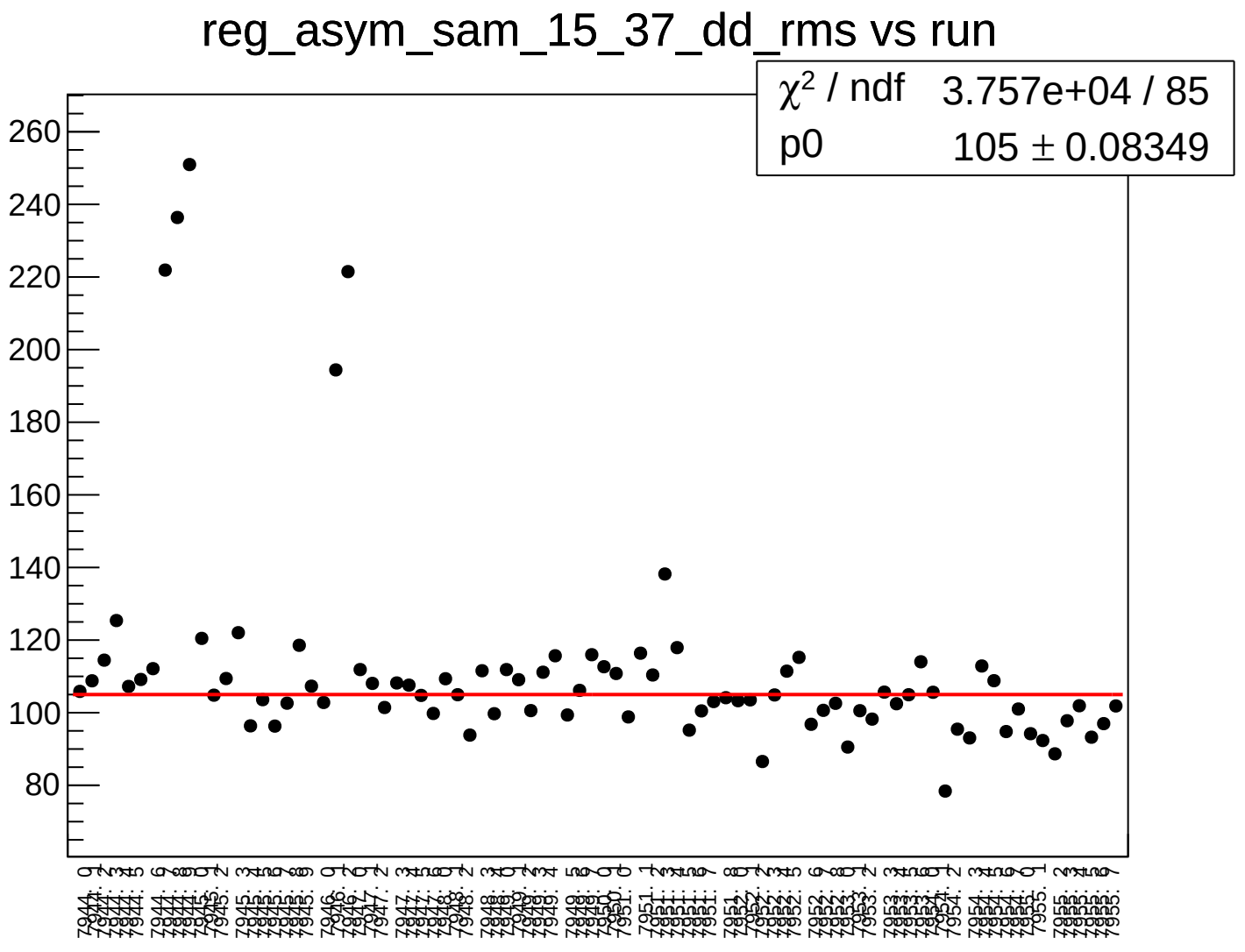

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.93 / 85
p0 −3.221e−16 ± 7.092e−14
pull
Entries 86
Mean 115.6
Std Dev 0

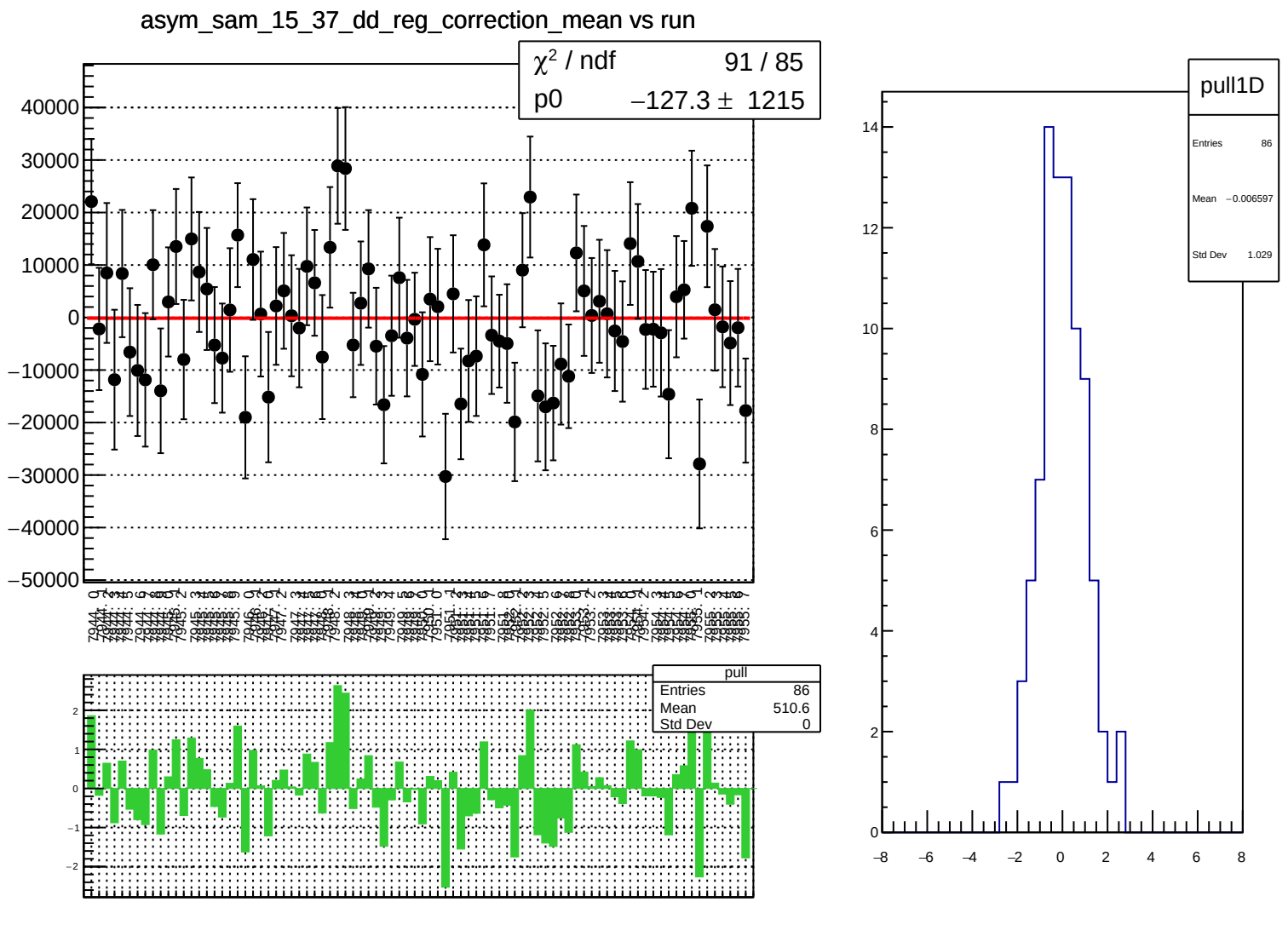

pull1D
Entries 86
Mean 0.006112
Std Dev 0.9396

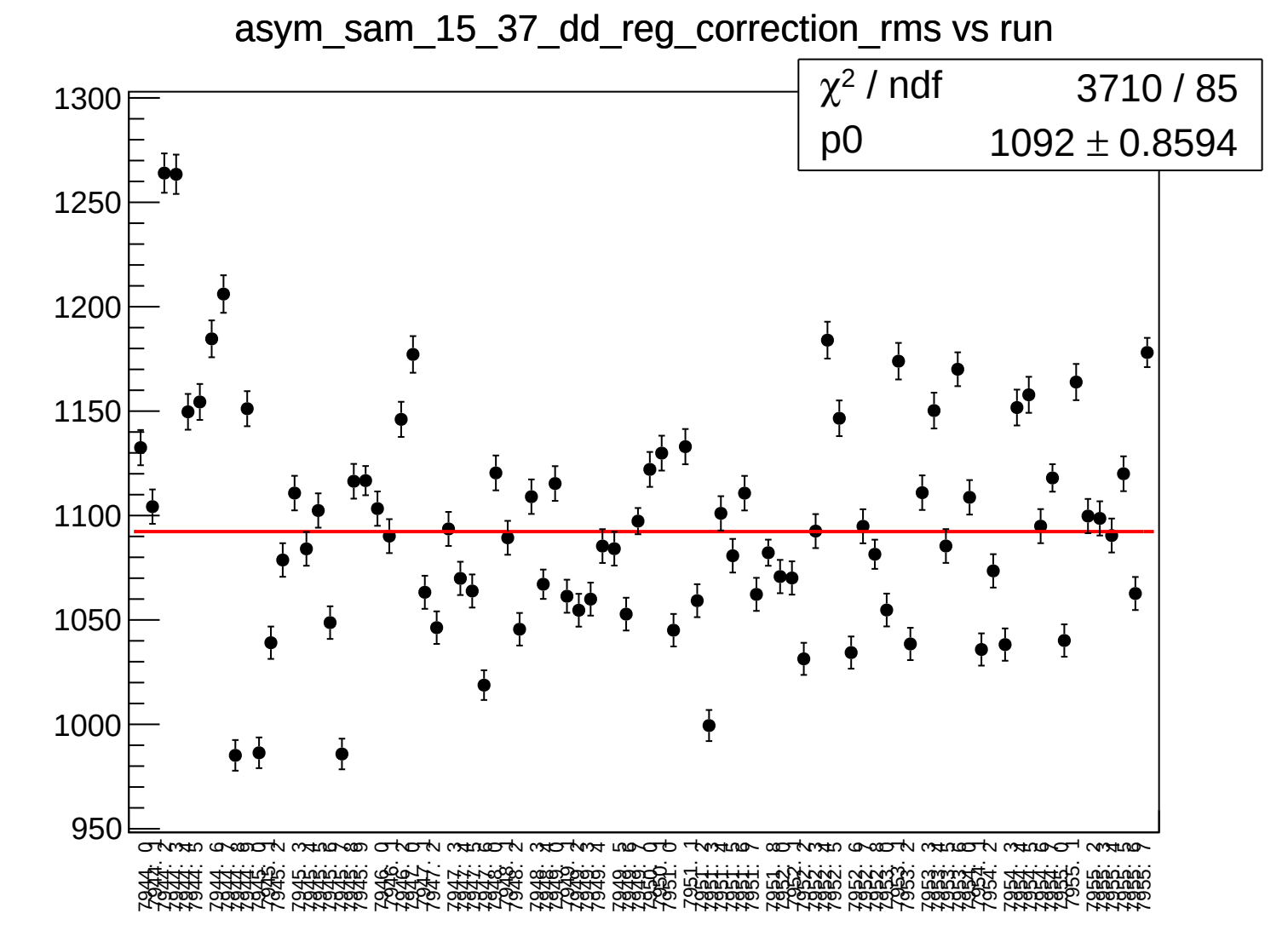

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.662e+05 / 85
p0 4.896e−11 ± 5.015e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

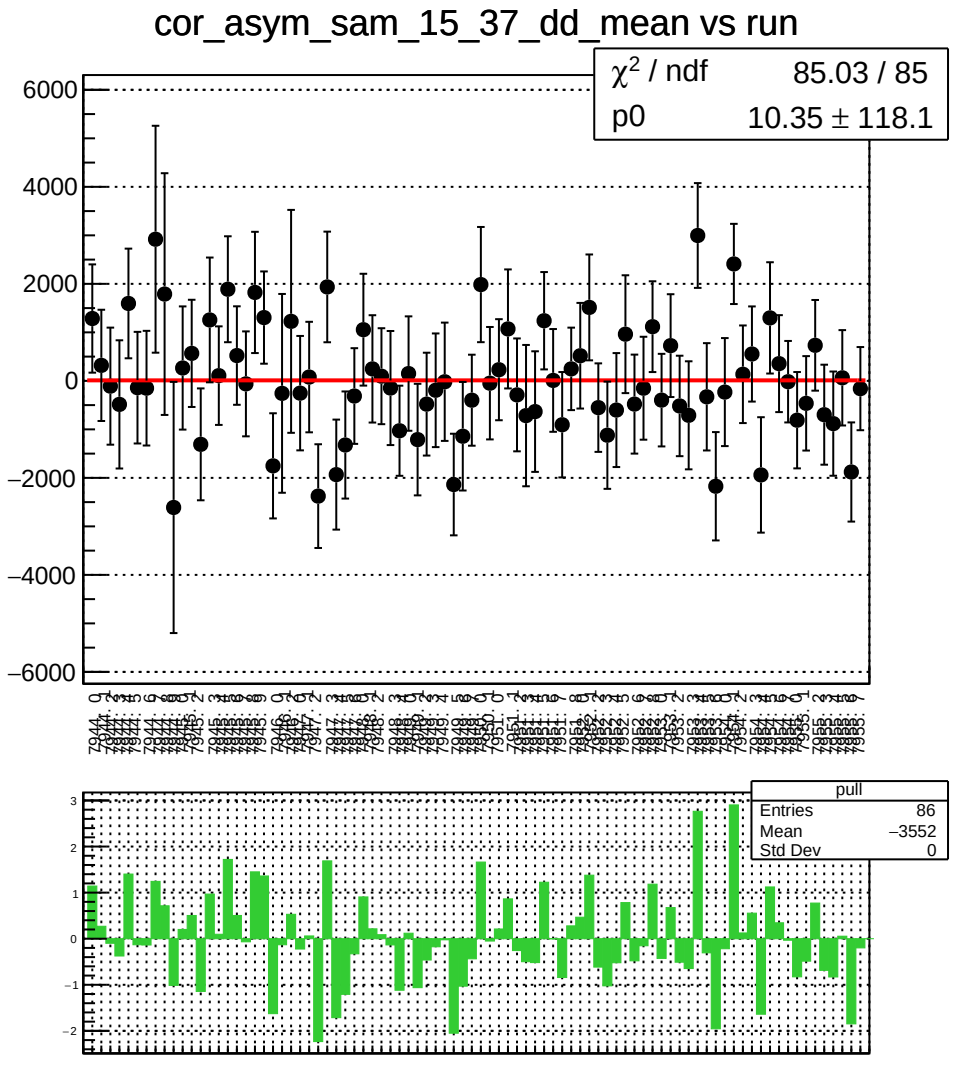

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.03 / 85
p0 10.3 ± 118.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −3535
Std Dev 0
3
2
1
0
−1
−2

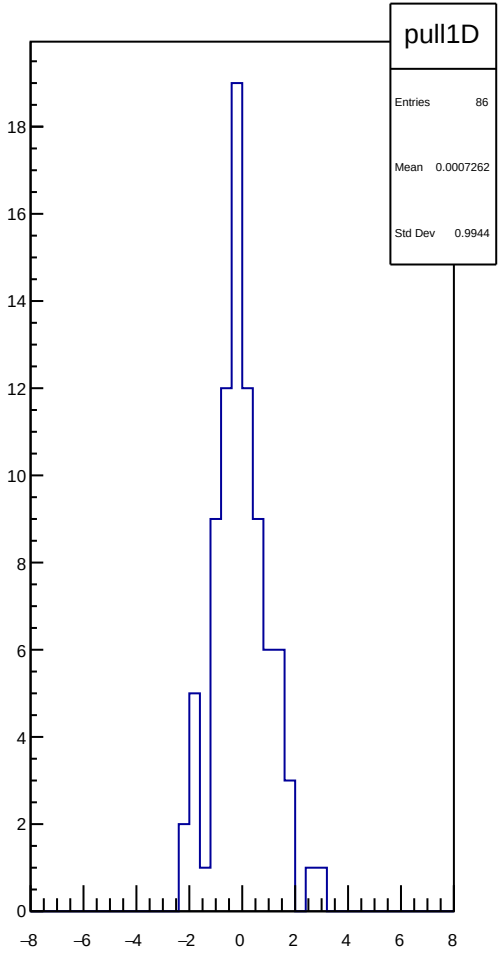

pull1D
Entries 86
Mean 0.0007293
Std Dev 0.9944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

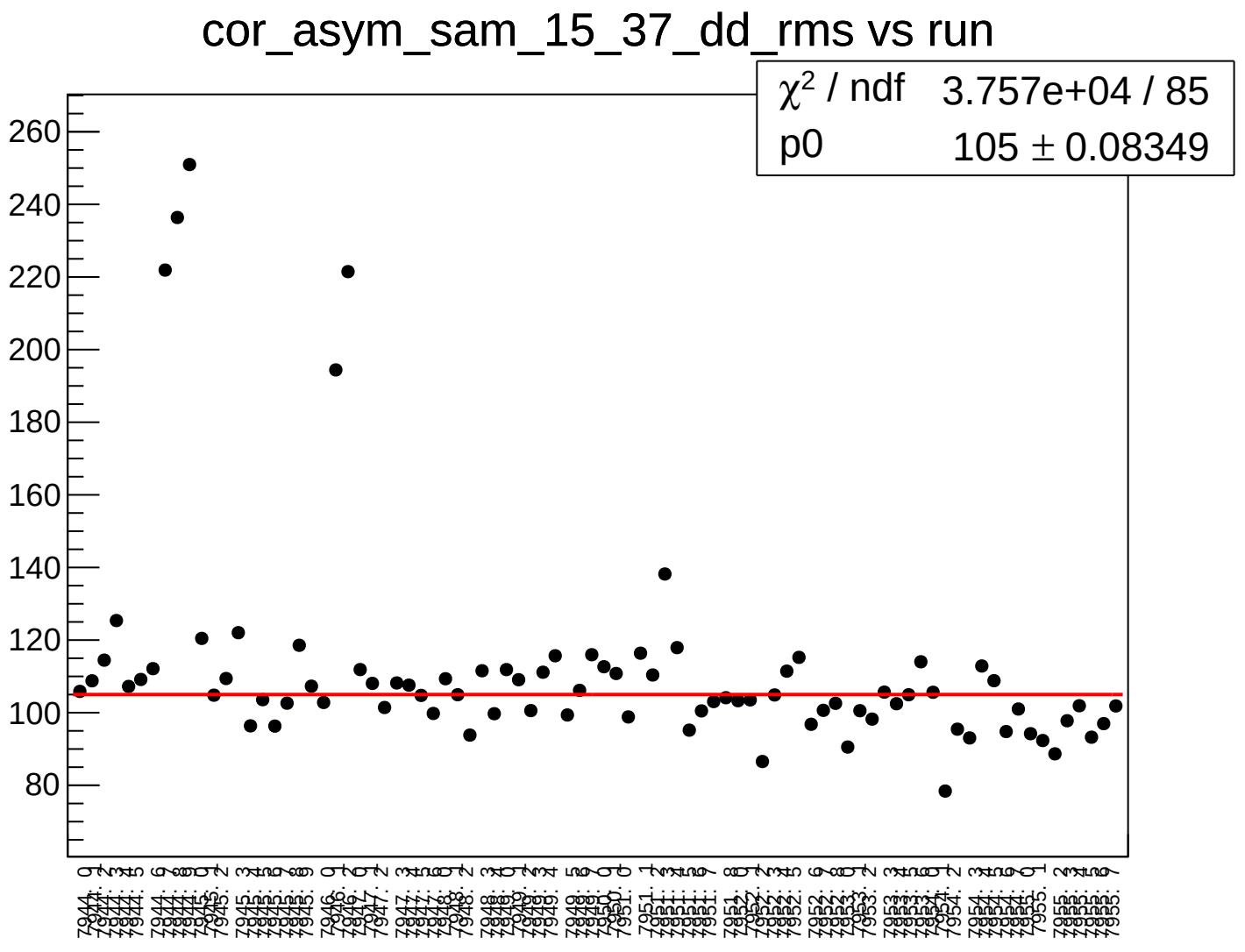

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.757e+04 / 85
p0 105 ± 0.08349
260
240
220
200
180
160
140
120
100
80

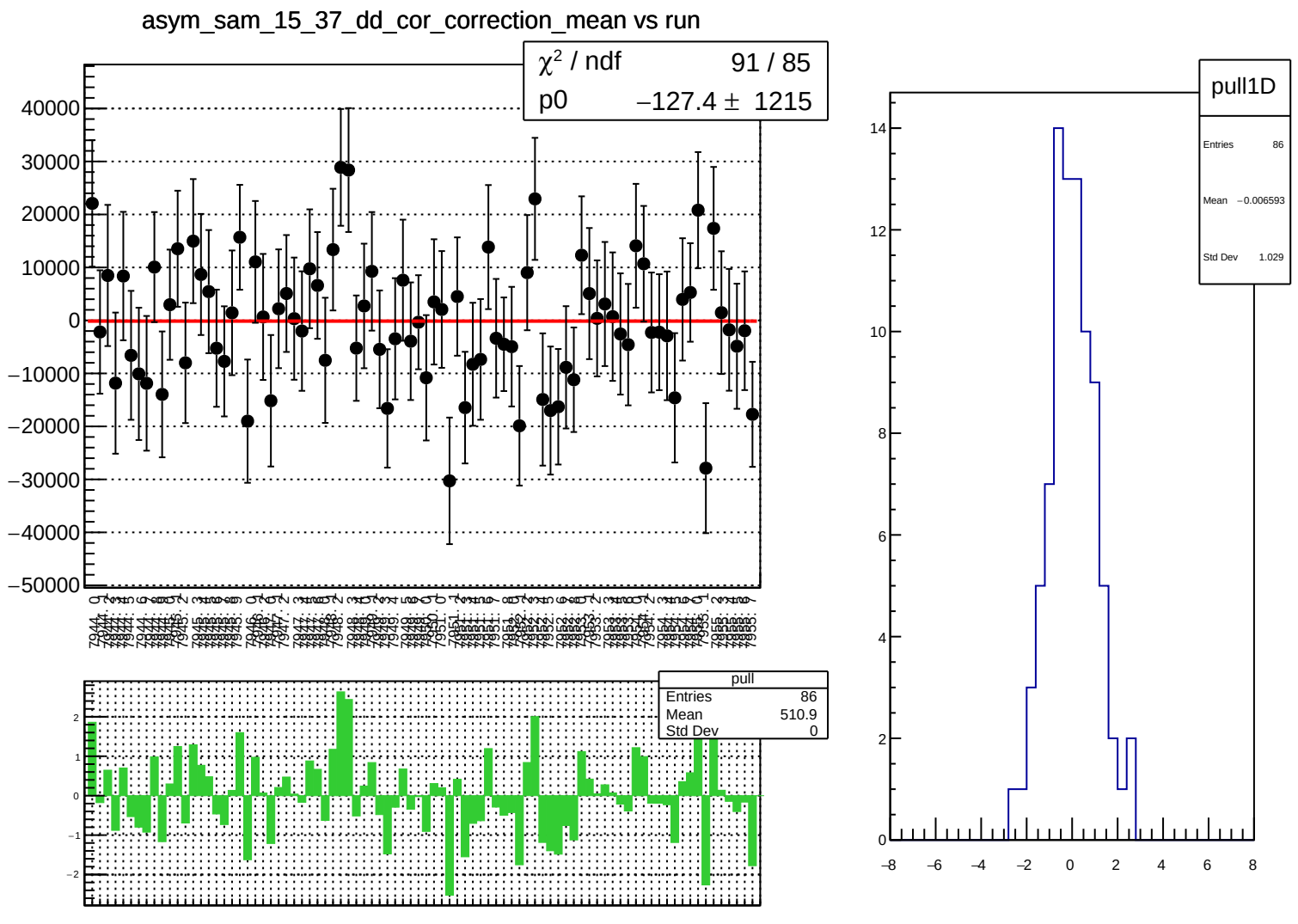

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 91 / 85
p0 −127.3 ± 1215
pull
Entries 86
Mean 510.6
Std Dev 0
pull1D
Entries 86
Mean −0.006597
Std Dev 1.029

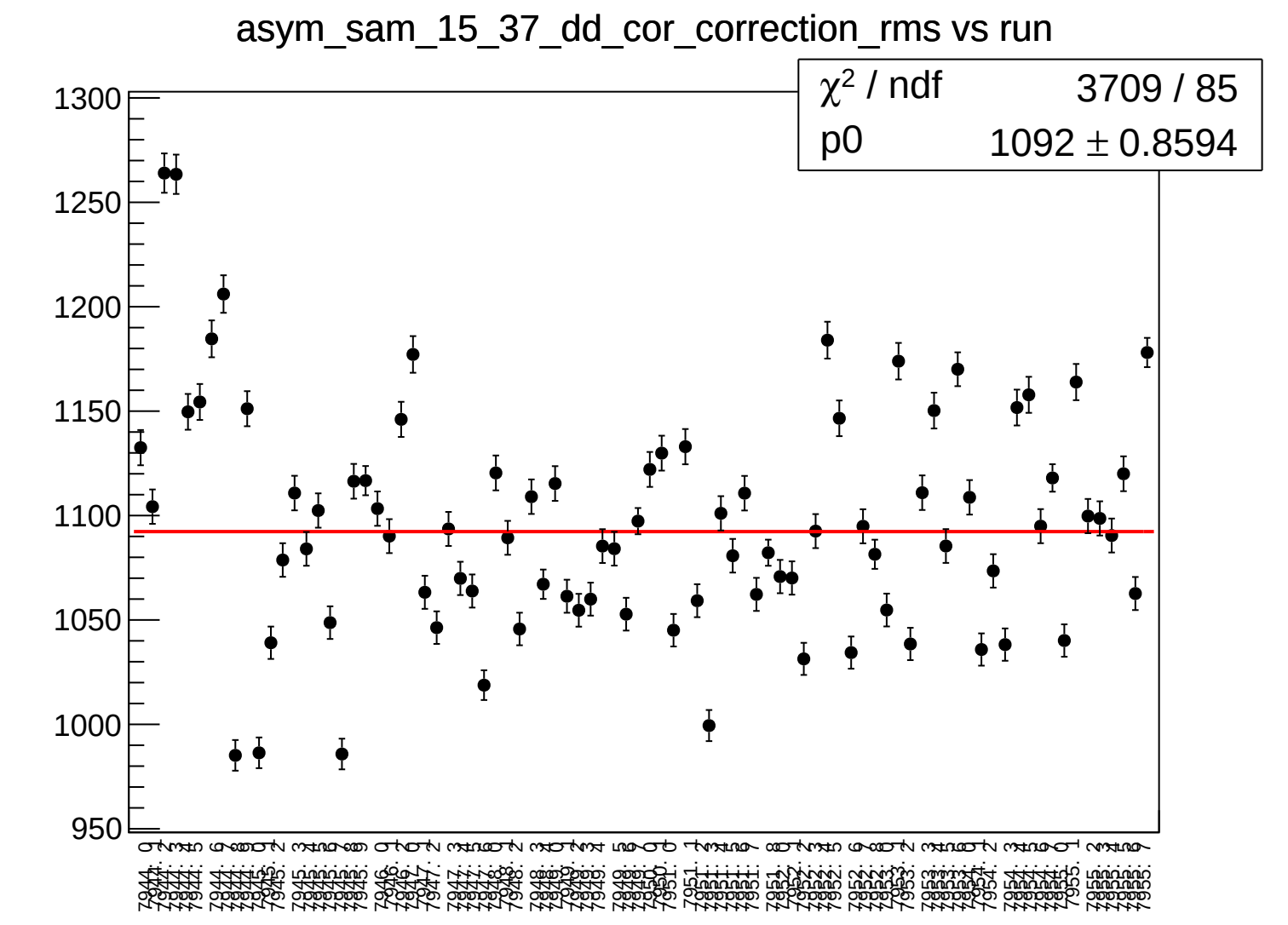

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 3710 / 85
p0 1092 ± 0.8594
1300
1250
1200
1150
1100
1050
1000
950

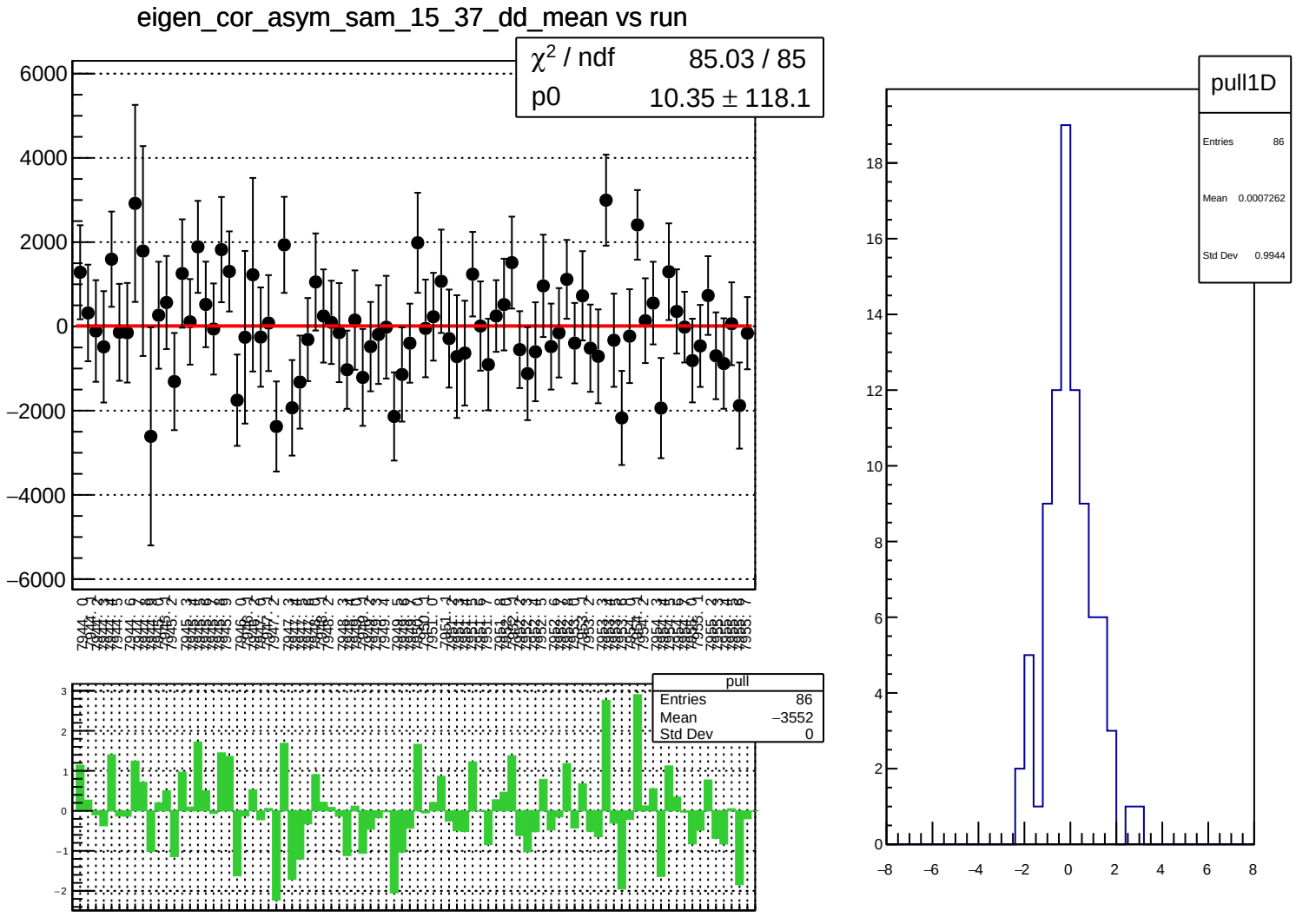

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.03 / 85
p0 10.35 ± 118.1
pull
Entries 86
Mean −3552
Std Dev 0

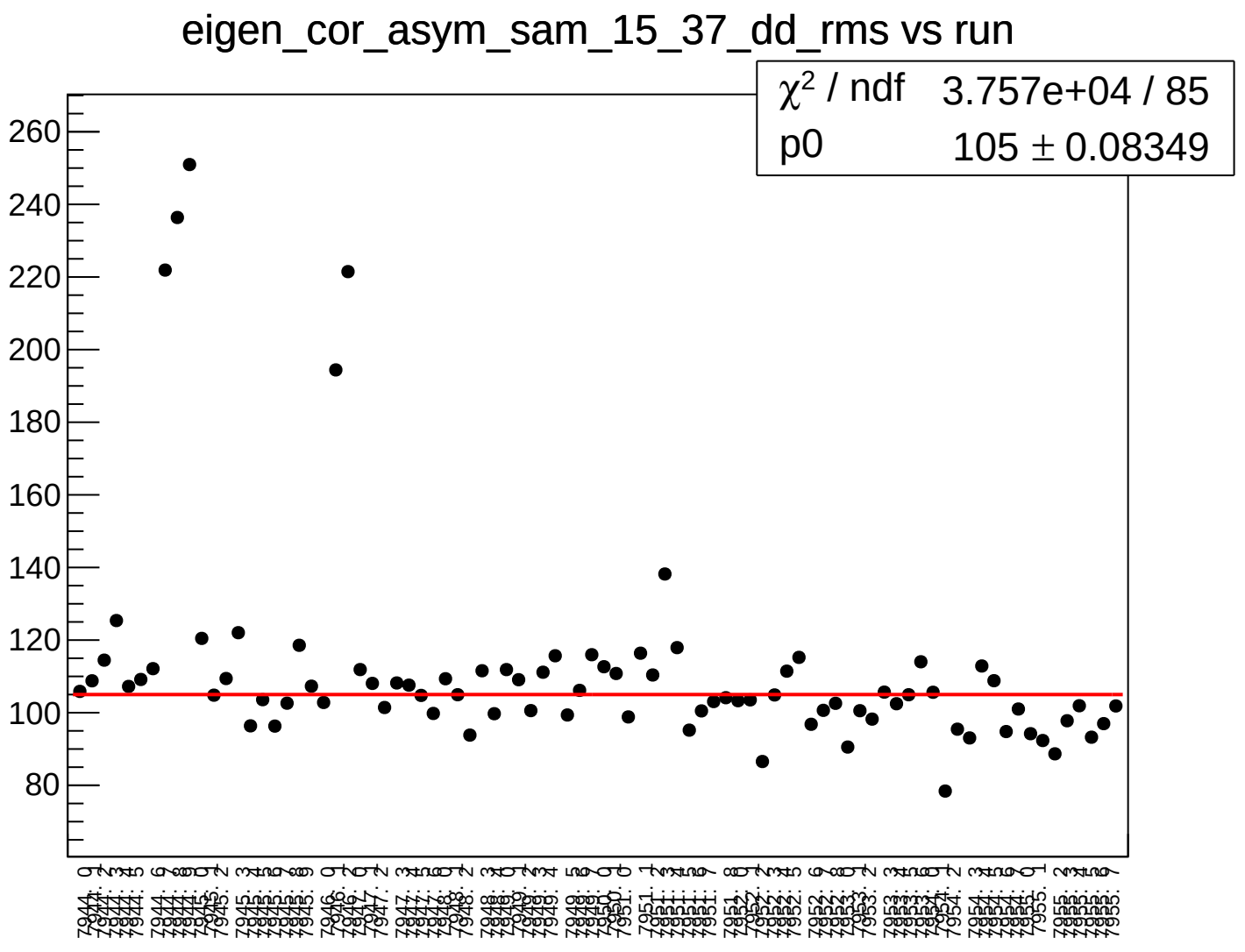

pull1D
Entries 86
Mean 0.0007262
Std Dev 0.9944

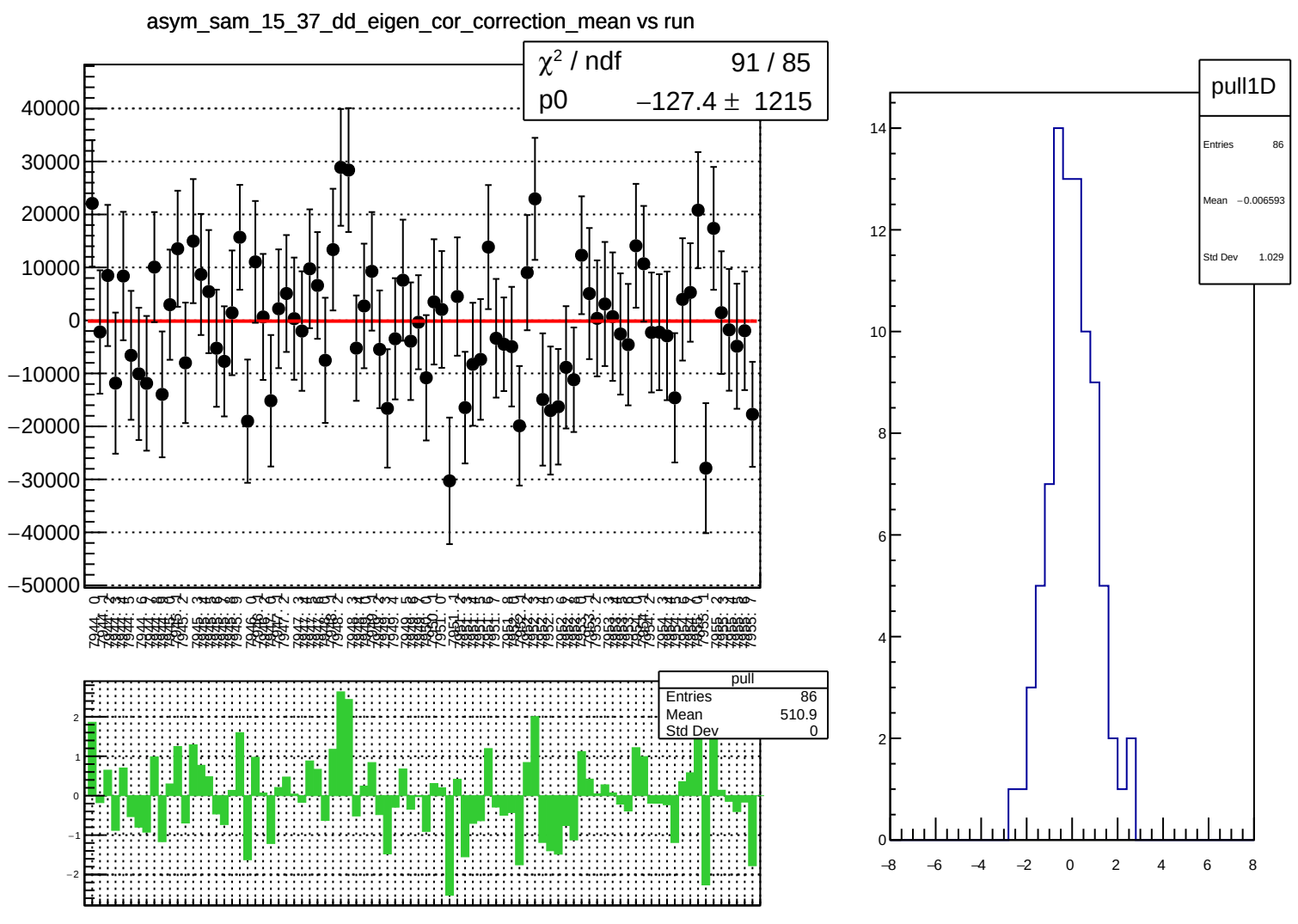

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.757e+04 / 85
p0 105 ± 0.08349
260
240
220
200
180
160
140
120
100
80

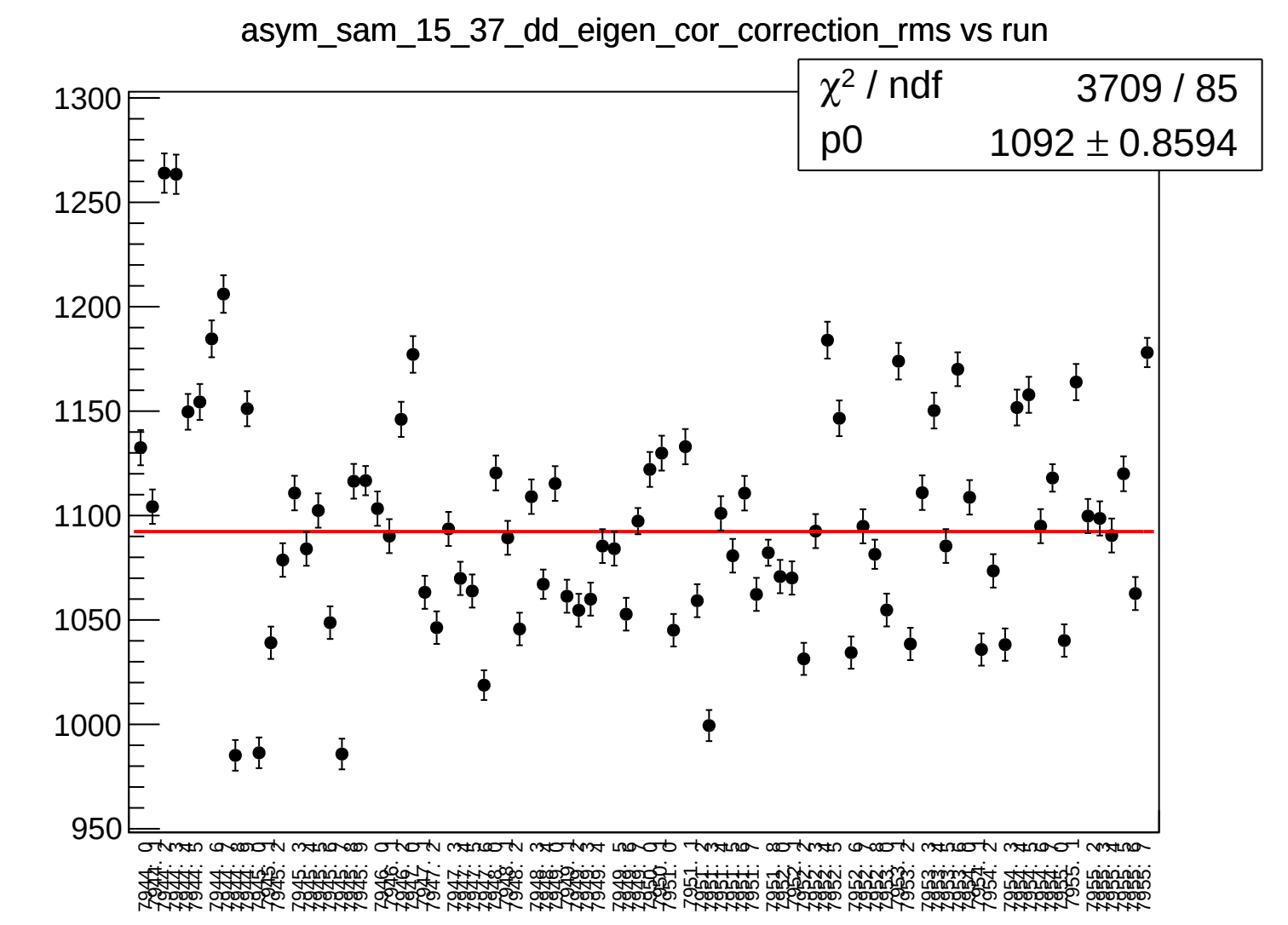

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 91 / 85
p0 −127.4 ± 1215
pull
Entries 86
Mean 510.9
Std Dev 0
pull1D
Entries 86
Mean −0.006593
Std Dev 1.029

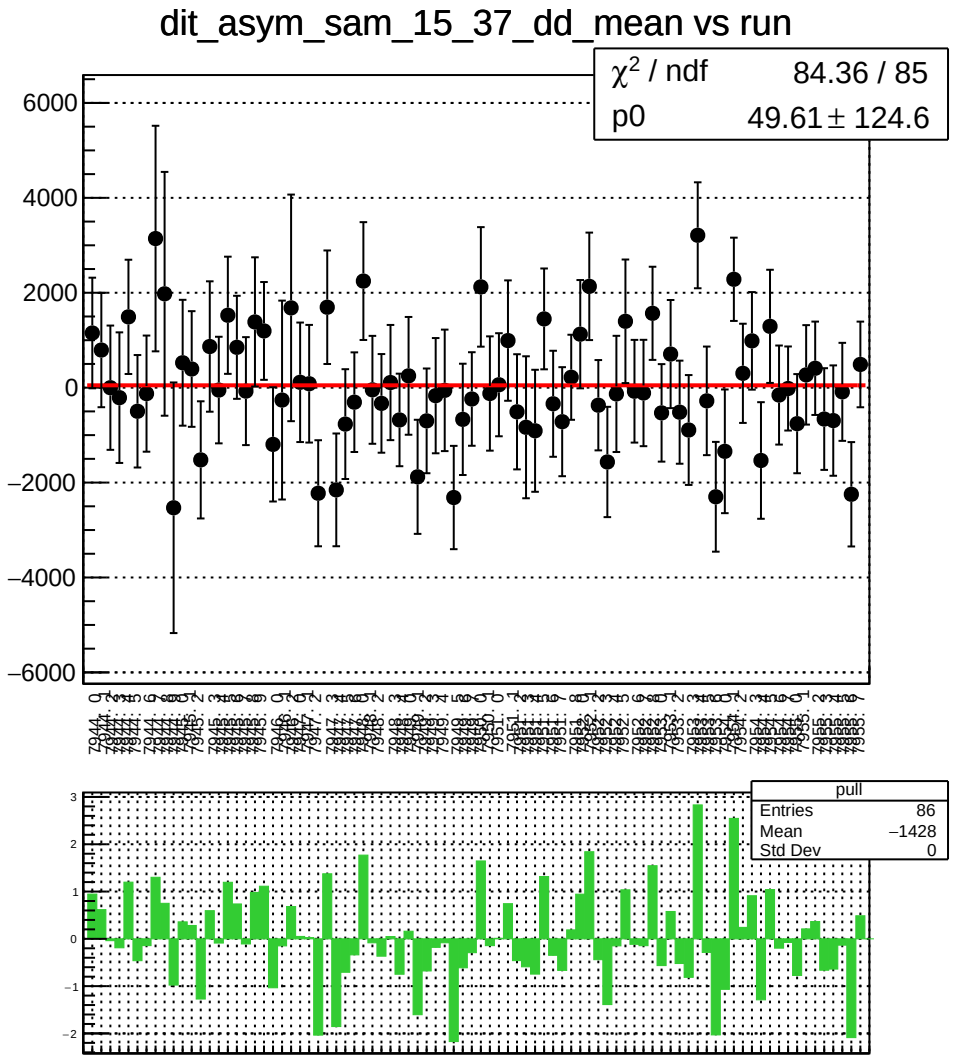

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 3709 / 85
p0 1092 ± 0.8594
1300
1250
1200
1150
1100
1050
1000
950

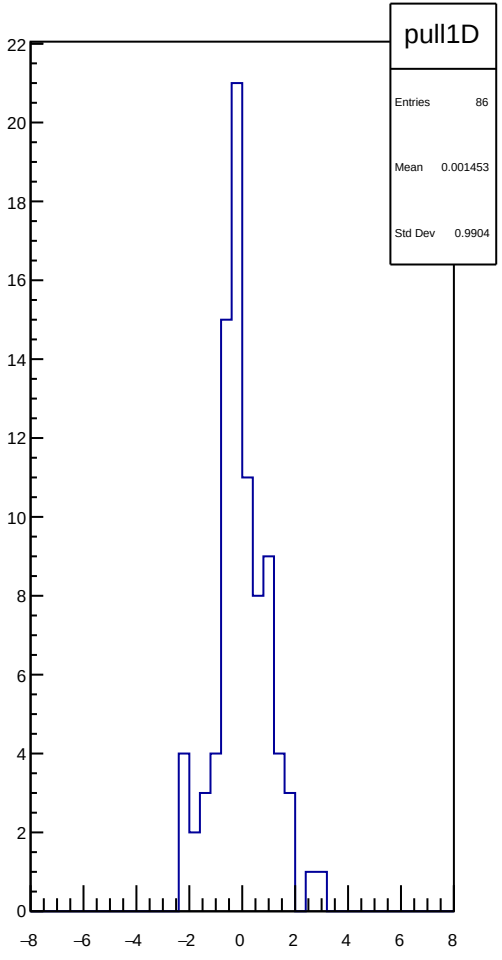

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.03 / 85
p0 10.35 ± 118.1
pull
Entries 86
Mean −3552
Std Dev 0
pull1D
Entries 86
Mean 0.0007262
Std Dev 0.9944

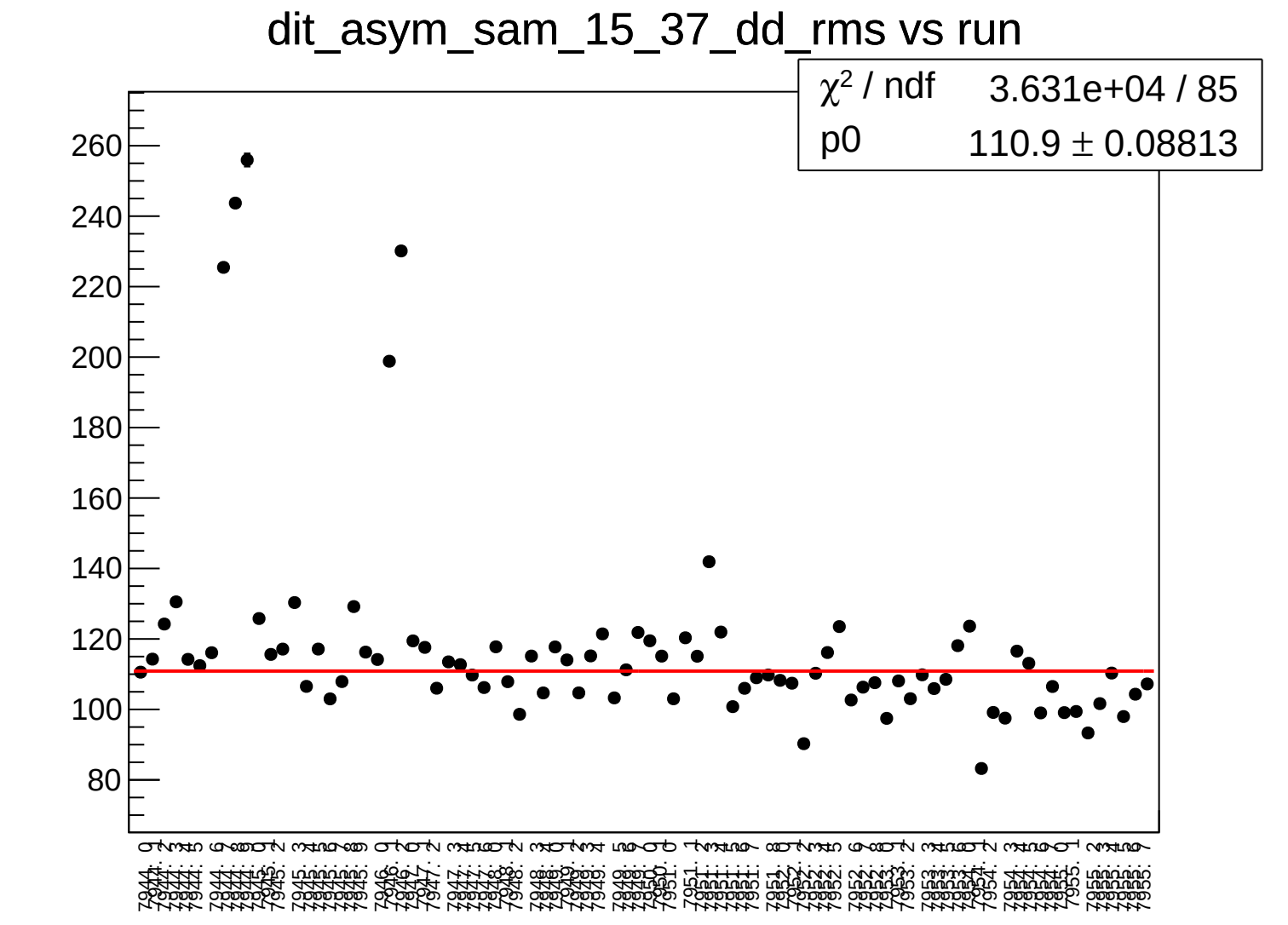

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.757e+04 / 85
p0 105 ± 0.08349
260
240
220
200
180
160
140
120
100
80

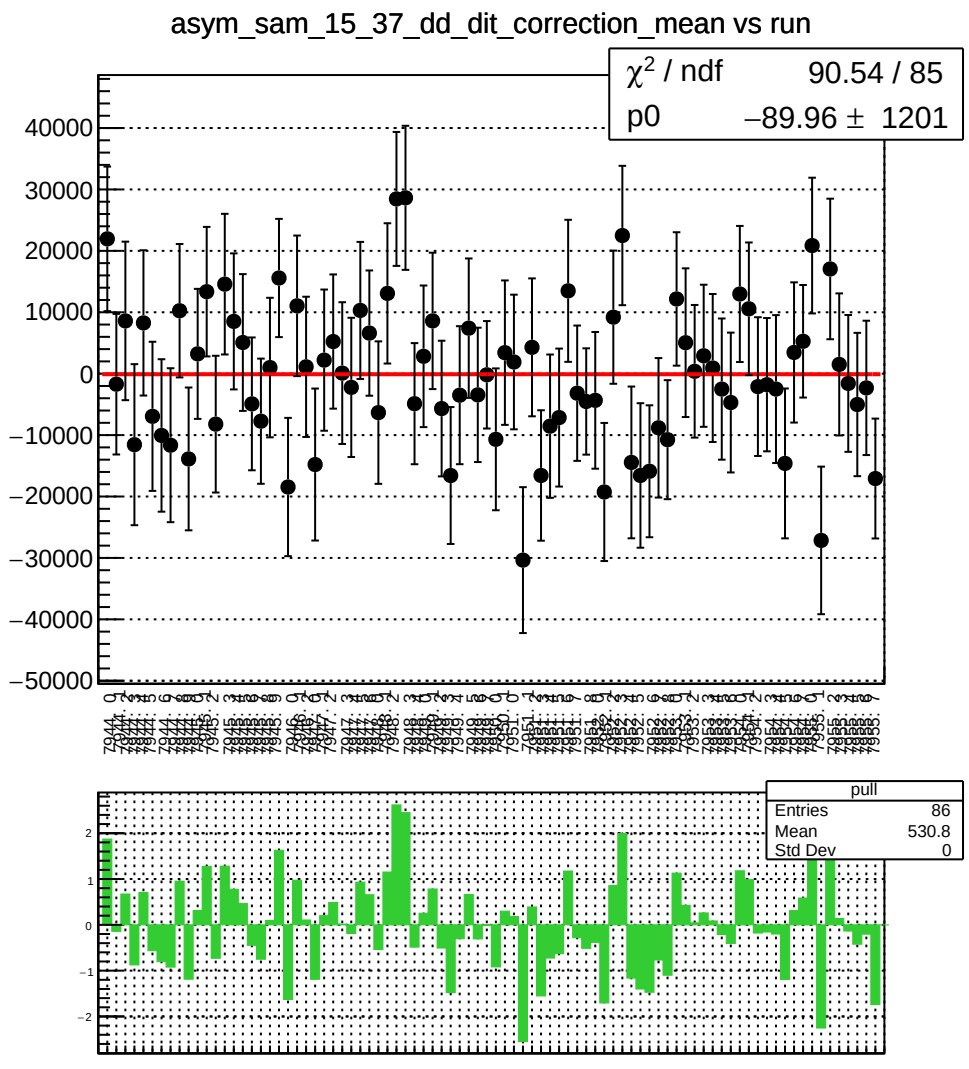

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 91 / 85
p0 −127.4 ± 1215
pull
Entries 86
Mean 510.9
Std Dev 0
pull1D
Entries 86
Mean −0.006593
Std Dev 1.029

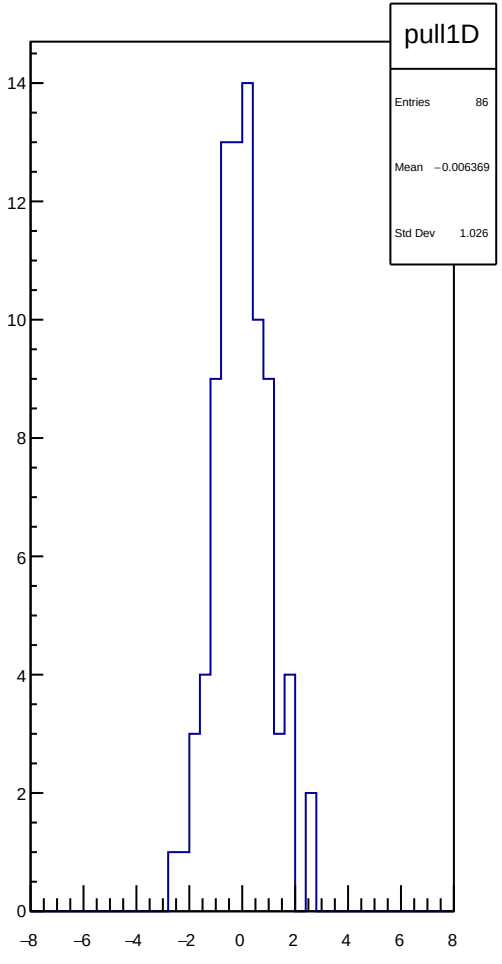

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 3709 / 85
p0 1092 ± 0.8594
1300
1250
1200
1150
1100
1050
1000
950

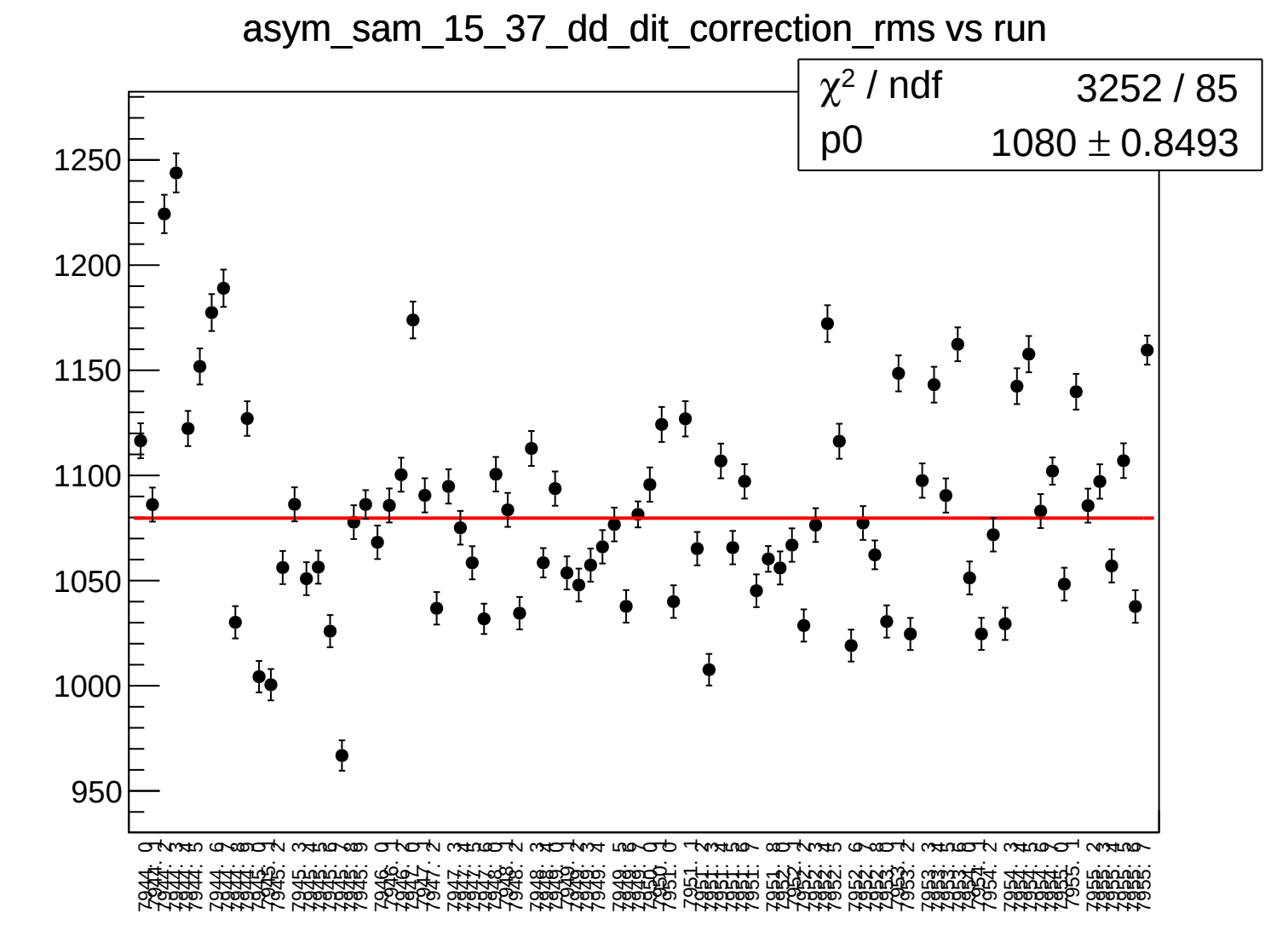

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 84.36 / 85
p0 49.61 ± 124.6
pull
Entries 86
Mean −1428
Std Dev 0

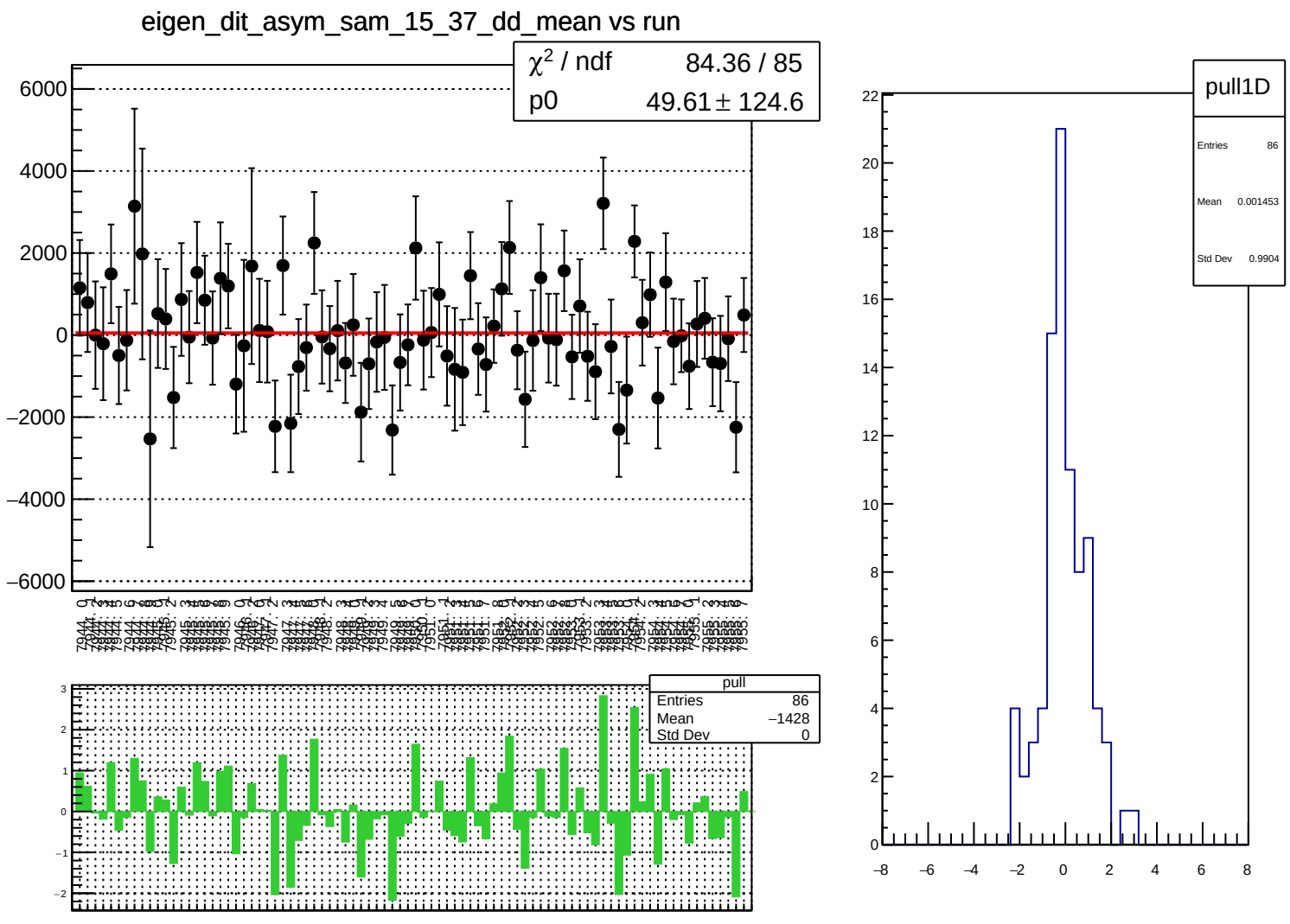

pull1D
Entries 86
Mean 0.001453
Std Dev 0.9904

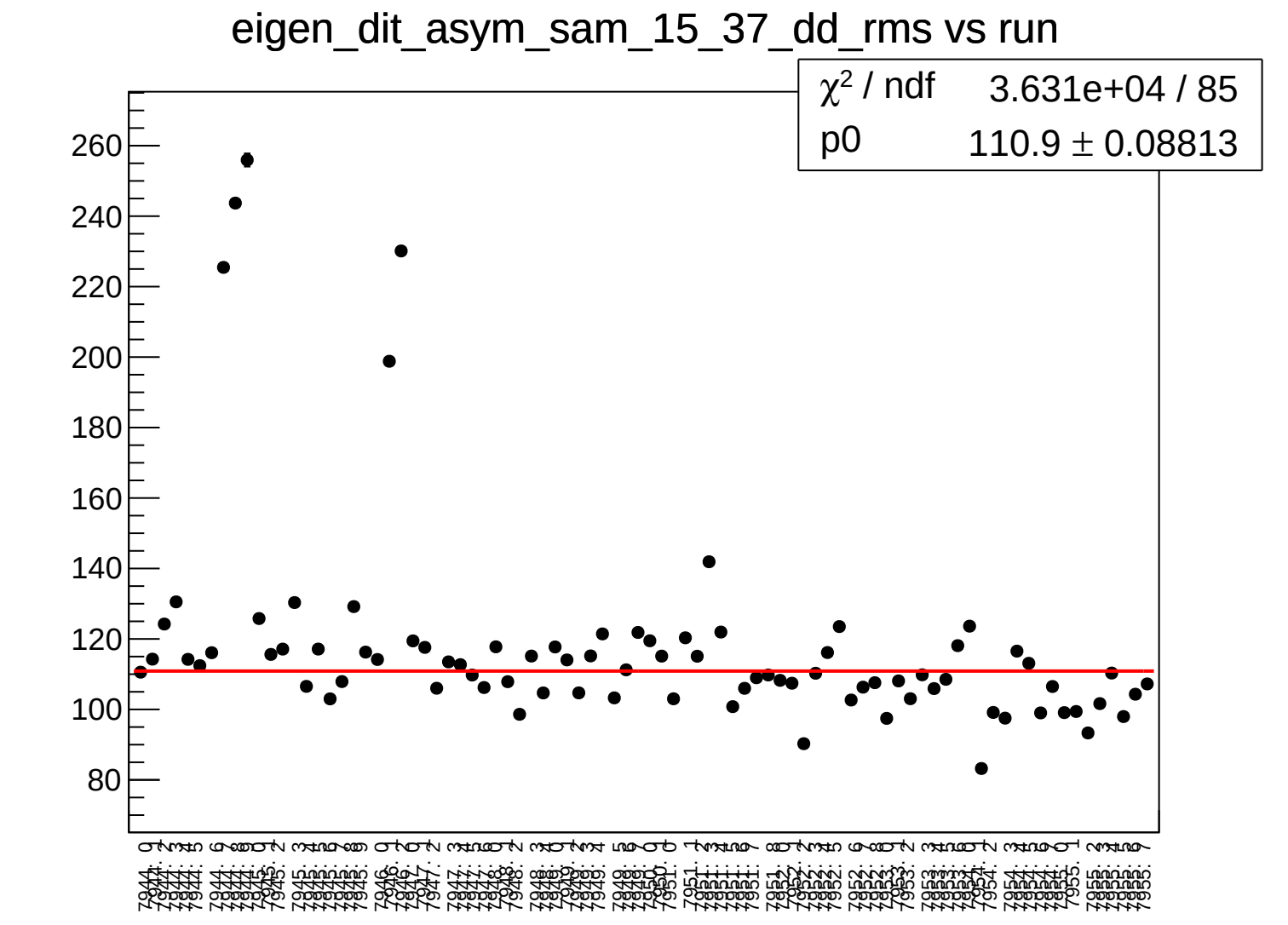

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.631e+04 / 85
p0 110.9 ± 0.08813
260
240
220
200
180
160
140
120
100
80

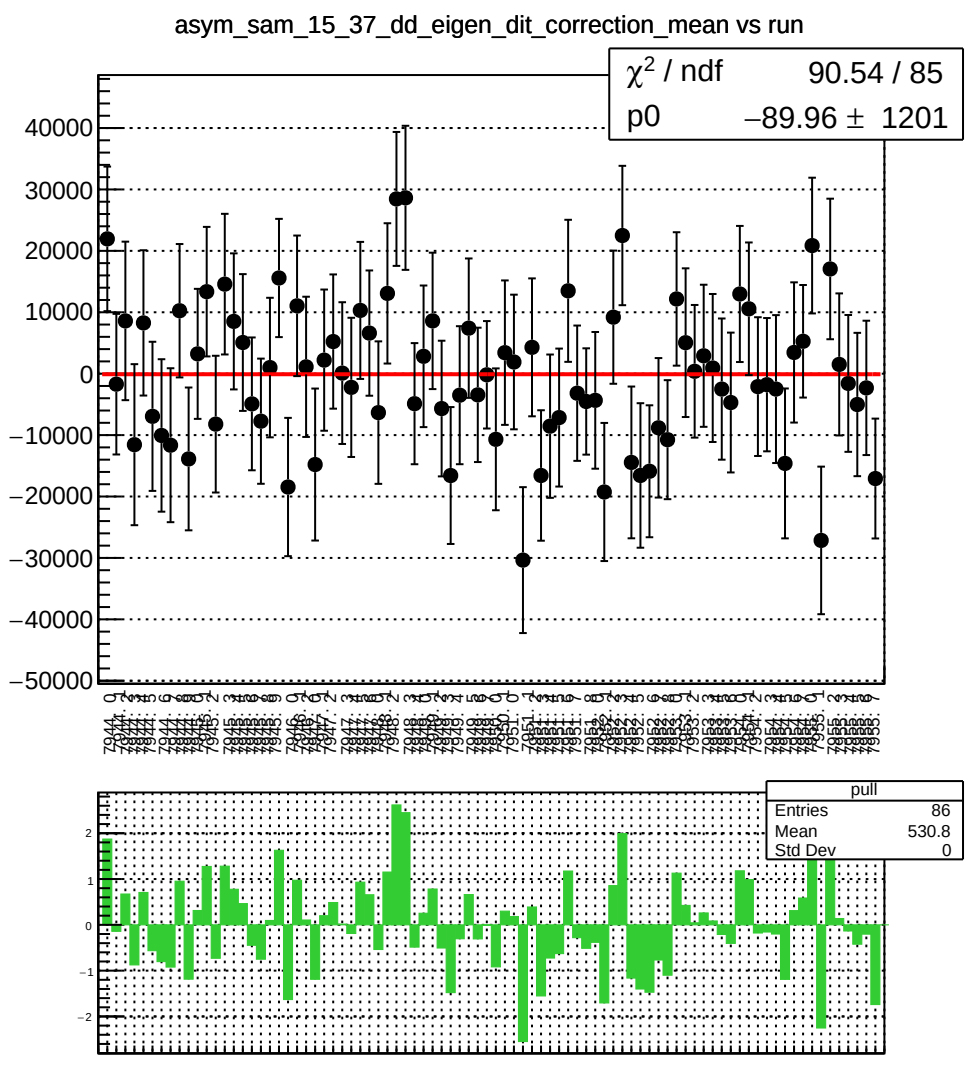

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 90.54 / 85
p0 −89.96 ± 1201
pull
Entries 86
Mean 530.8
Std Dev 0

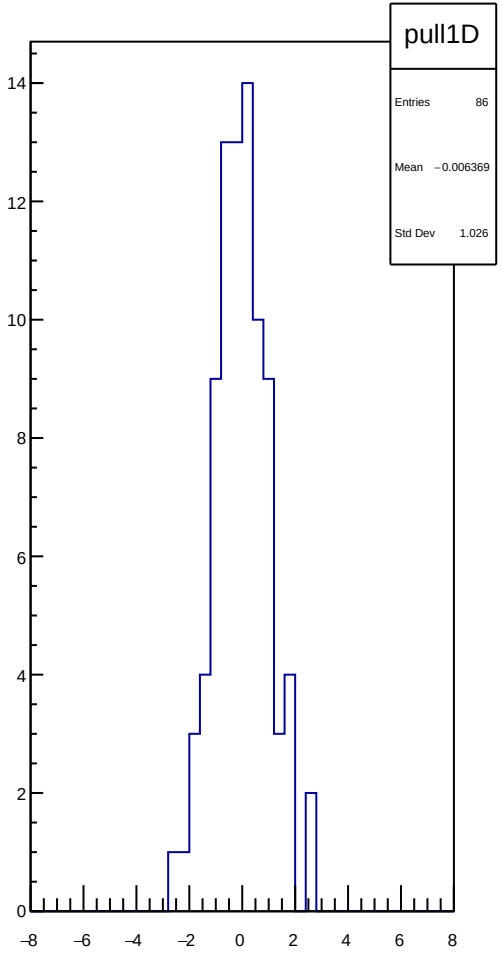

pull1D
Entries 86
Mean −0.006369
Std Dev 1.026

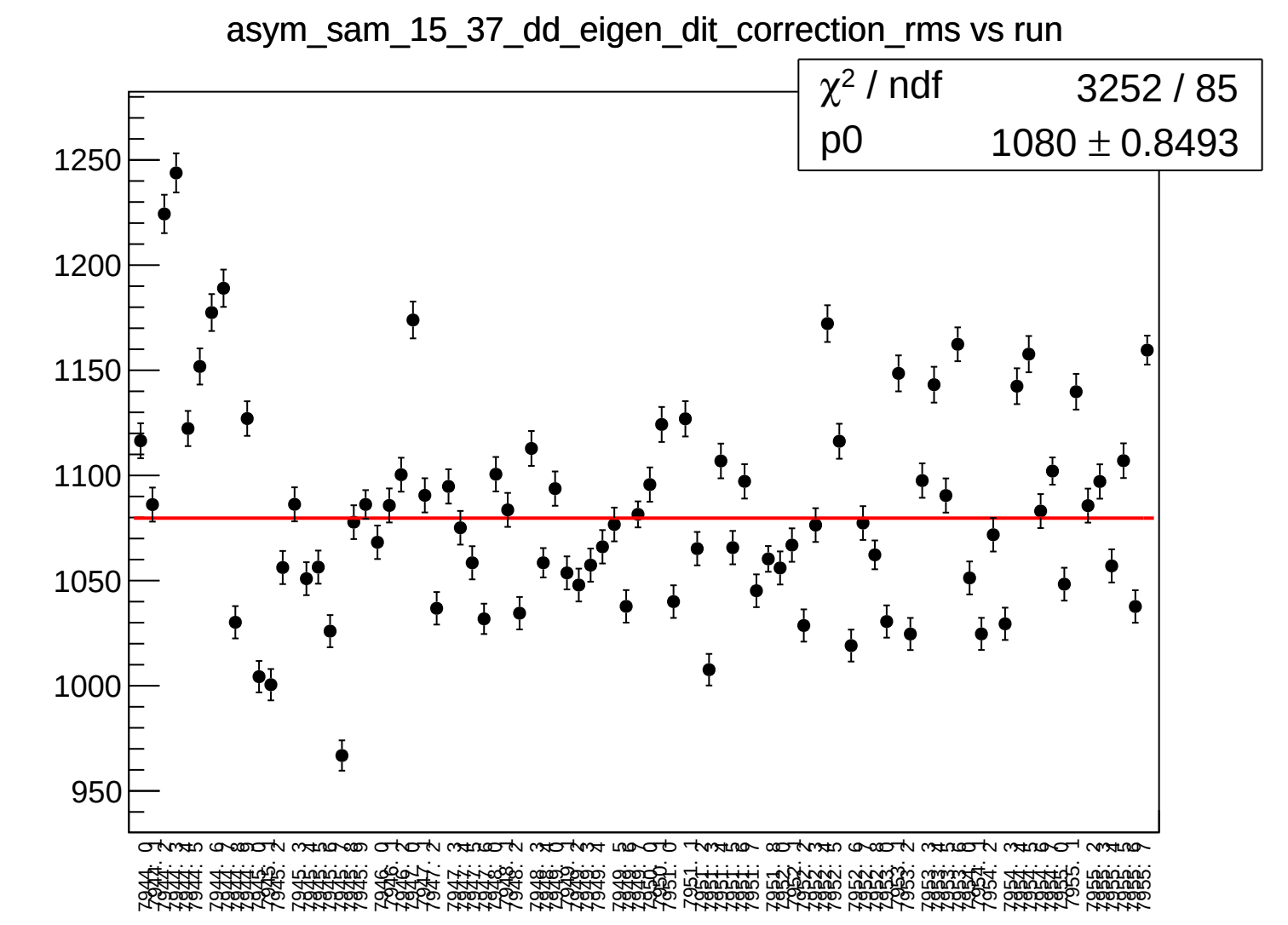

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 3252 / 85
p0 1080 ± 0.8493
1250
1200
1150
1100
1050
1000
950

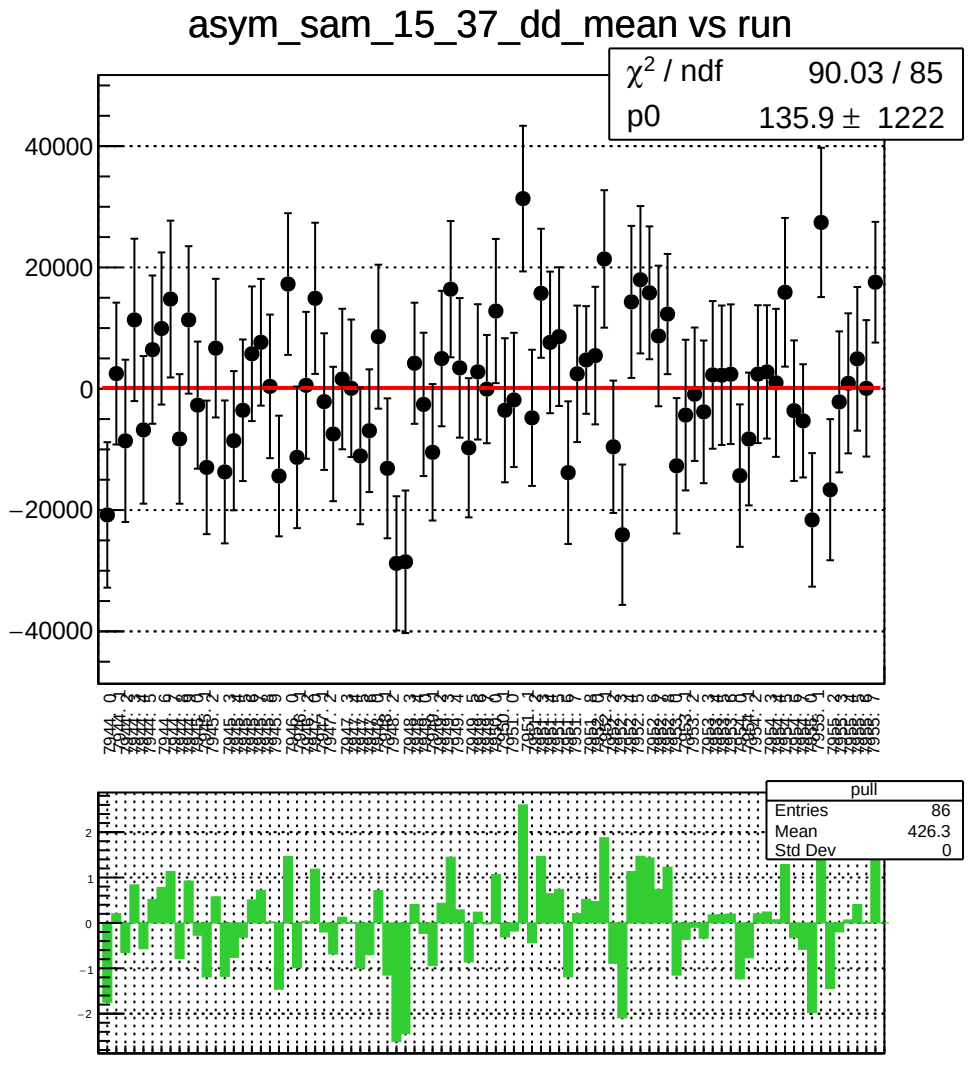

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 84.36 / 85
p0 49.61 ± 124.6
pull
Entries 86
Mean −1428
Std Dev 0
pull1D
Entries 86
Mean 0.001453
Std Dev 0.9904

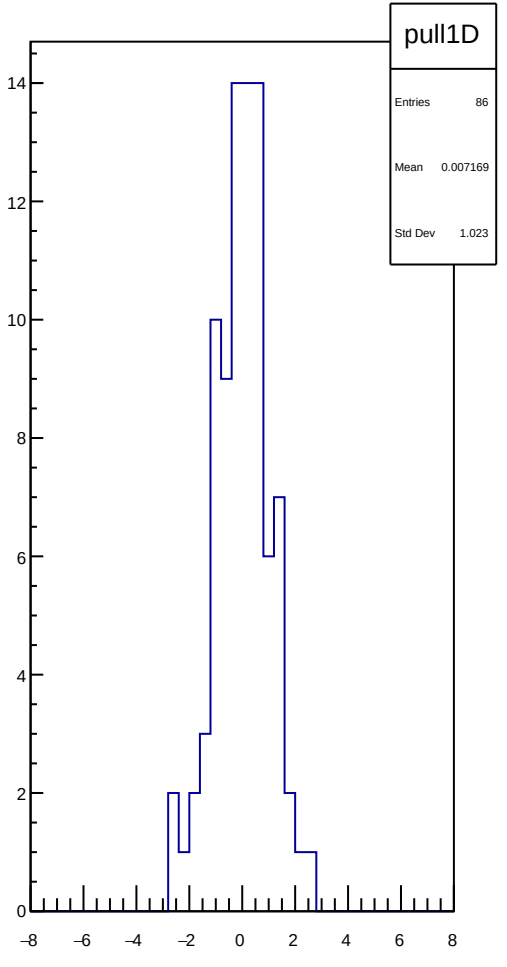

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.631e+04 / 85
p0 110.9 ± 0.08813
260
240
220
200
180
160
140
120
100
80

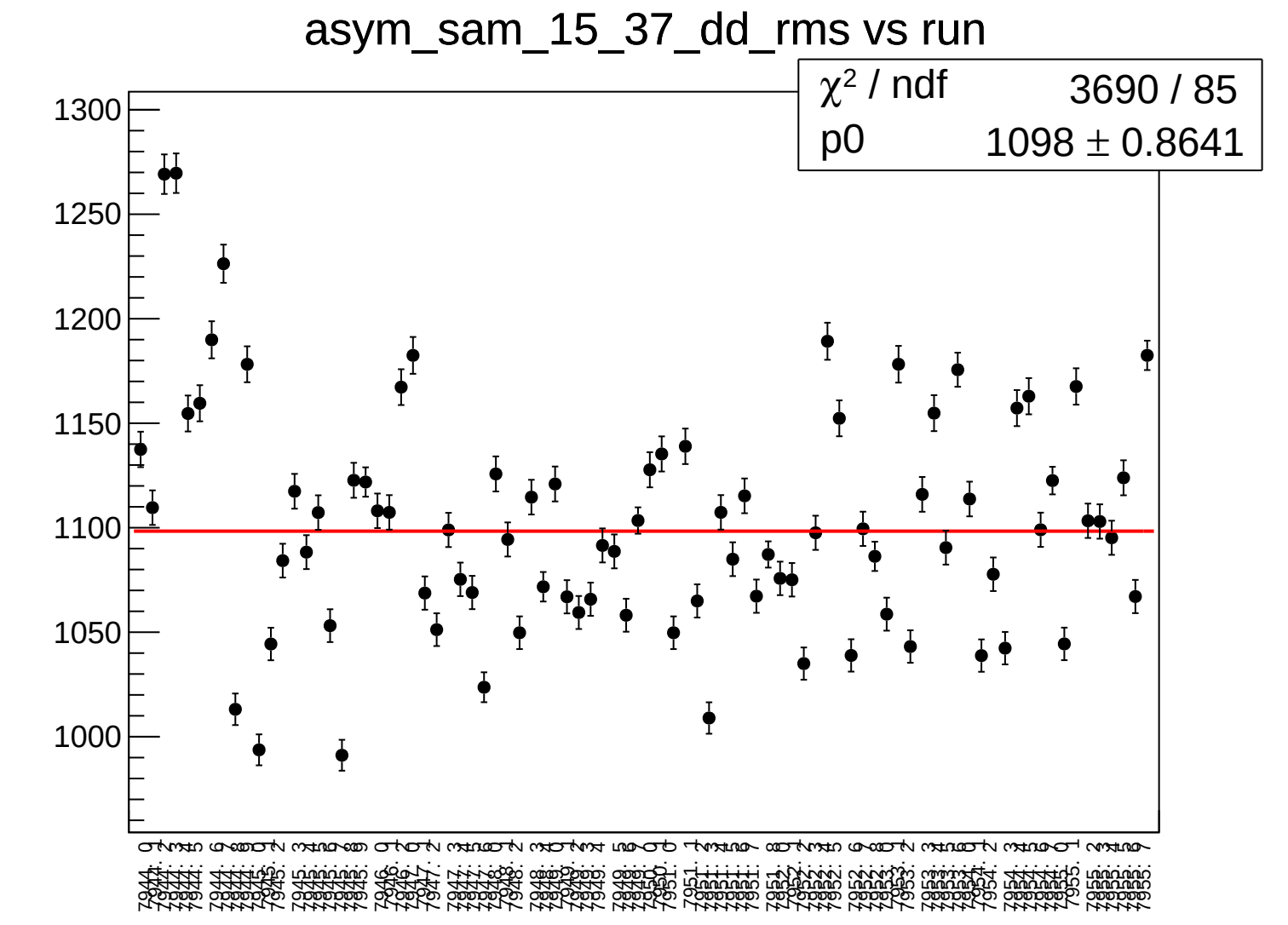

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.54 / 85
p0 −89.96 ± 1201
pull
Entries 86
Mean 530.8
Std Dev 0

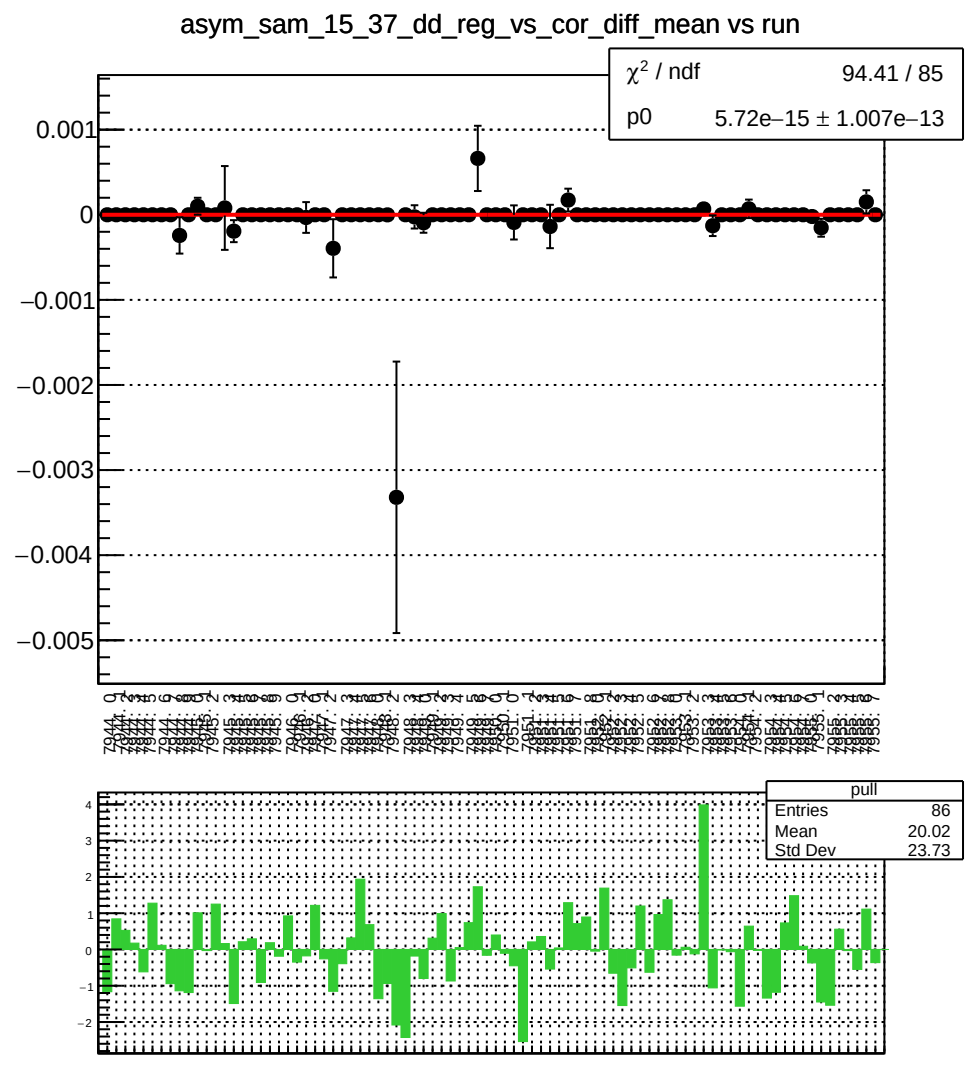

pull1D
Entries 86
Mean −0.006369
Std Dev 1.026

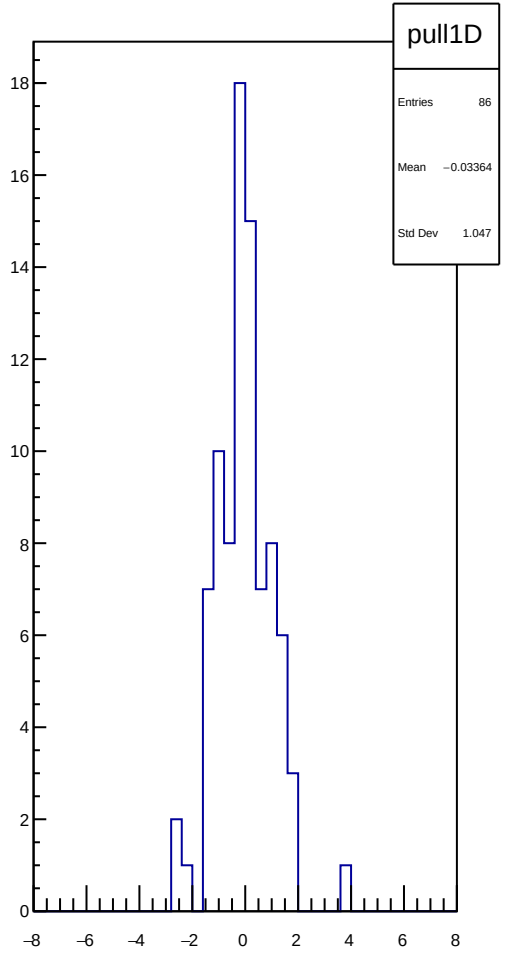

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3252 / 85
p0 1080 ± 0.8493
1250
1200
1150
1100
1050
1000
950

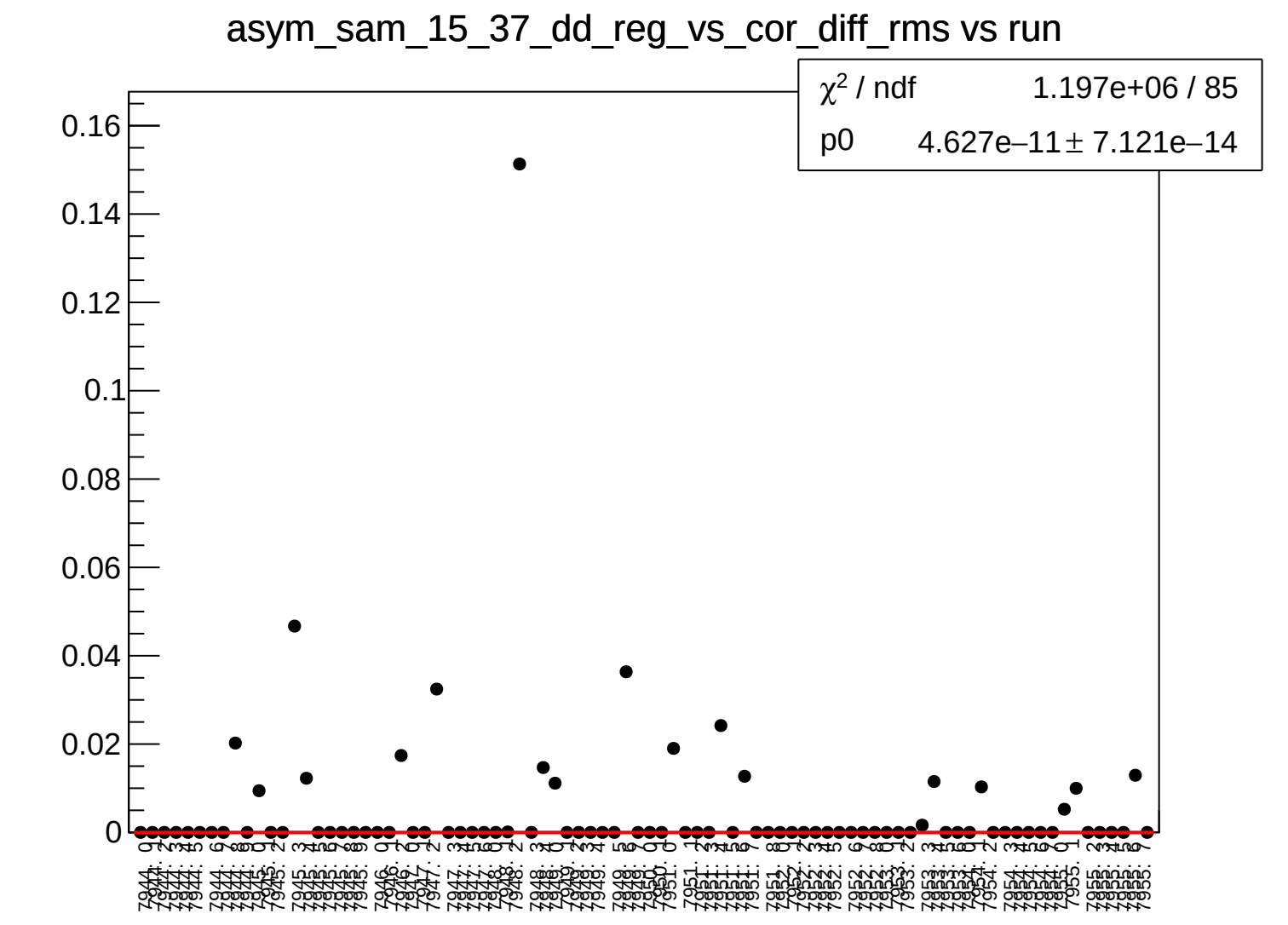

asym_sam_15_37_dd_mean vs run
χ² / ndf 90.03 / 85
p0 135.9 ± 1222
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 426.3
Std Dev 0
2
1
0
−1
−2

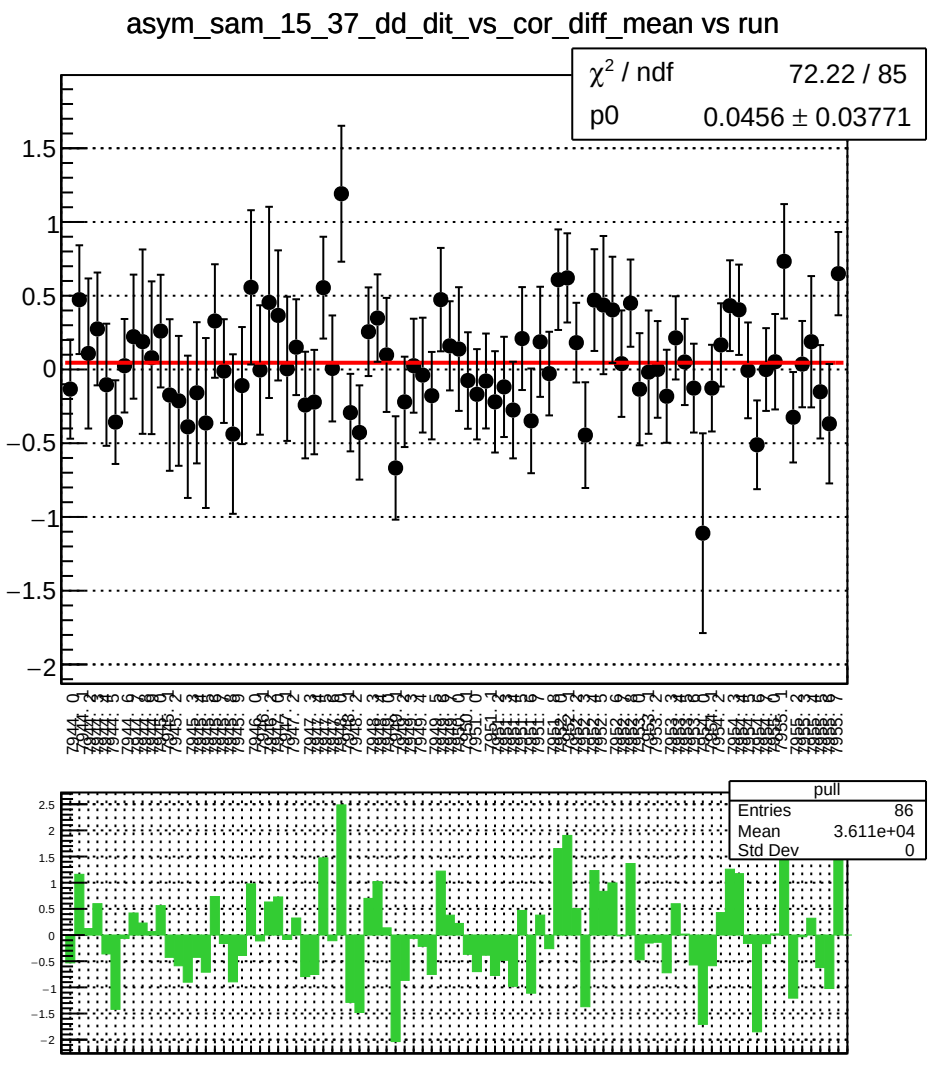

pull1D
Entries 86
Mean 0.007169
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

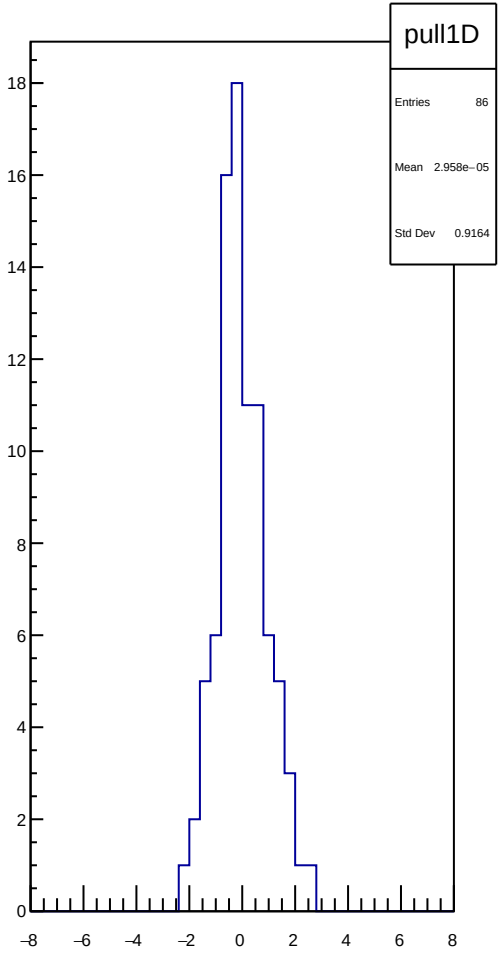

asym_sam_15_37_dd_rms vs run
χ² / ndf 3690 / 85
p0 1098 ± 0.8641
1300
1250
1200
1150
1100
1050
1000

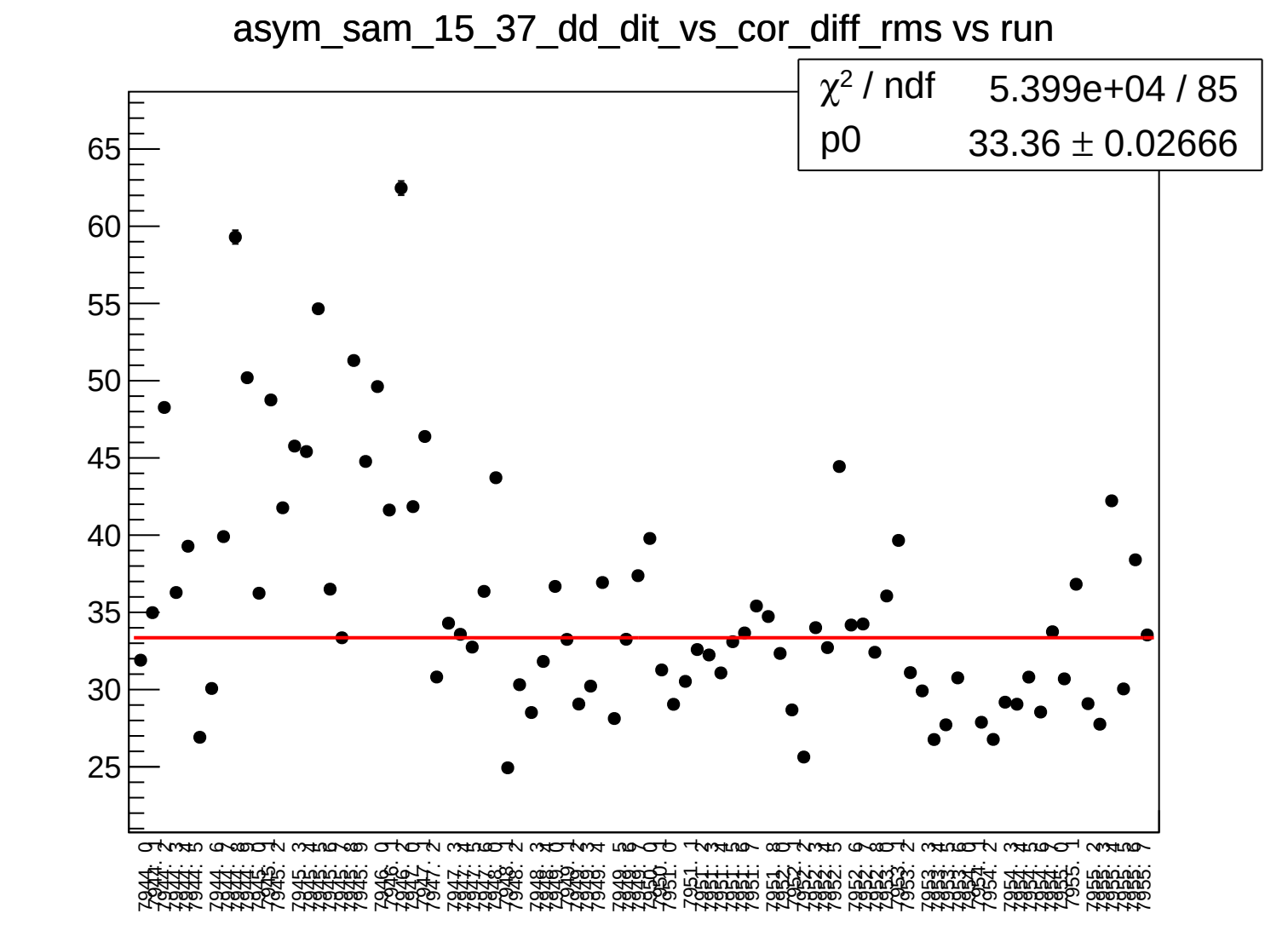

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.41 / 85
p0 5.72e−15 ± 1.007e−13
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
pull
Entries 86
Mean 20.02
Std Dev 23.73
4
3
2
1
0
−1
−2

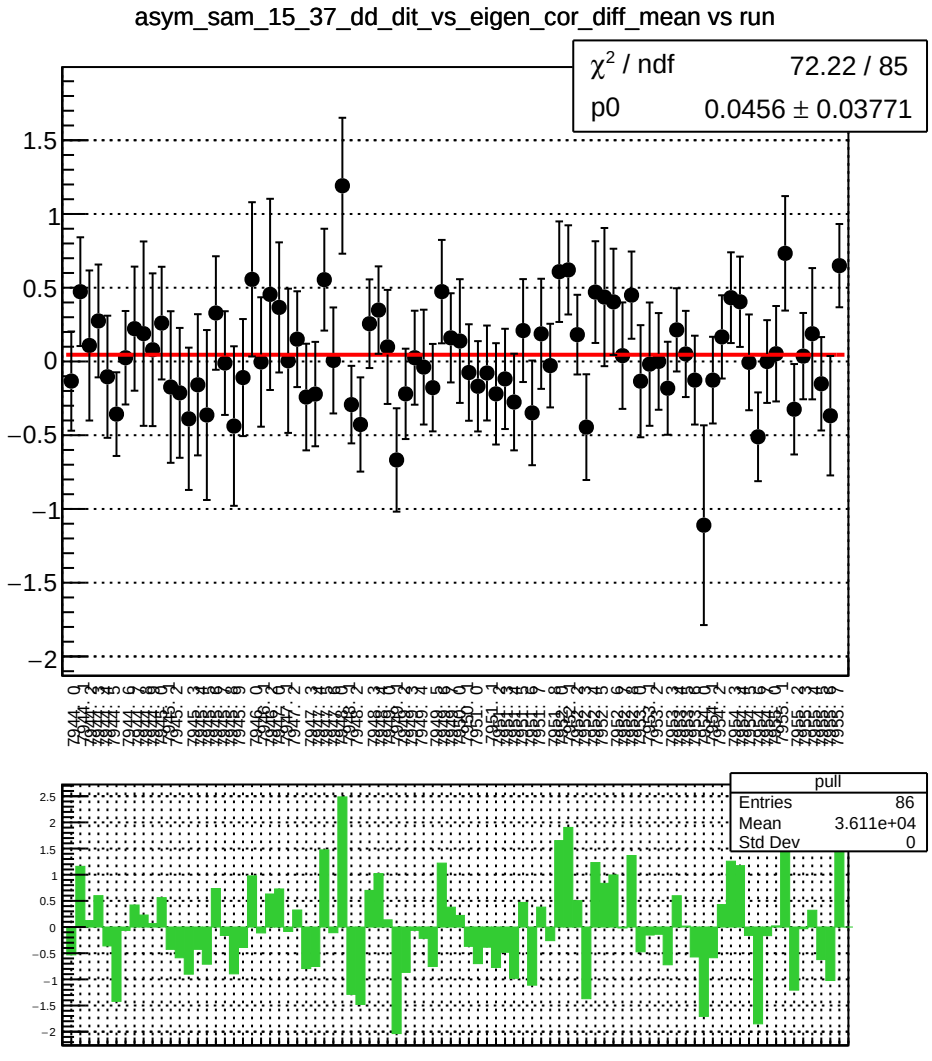

pull1D
Entries 86
Mean −0.03364
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

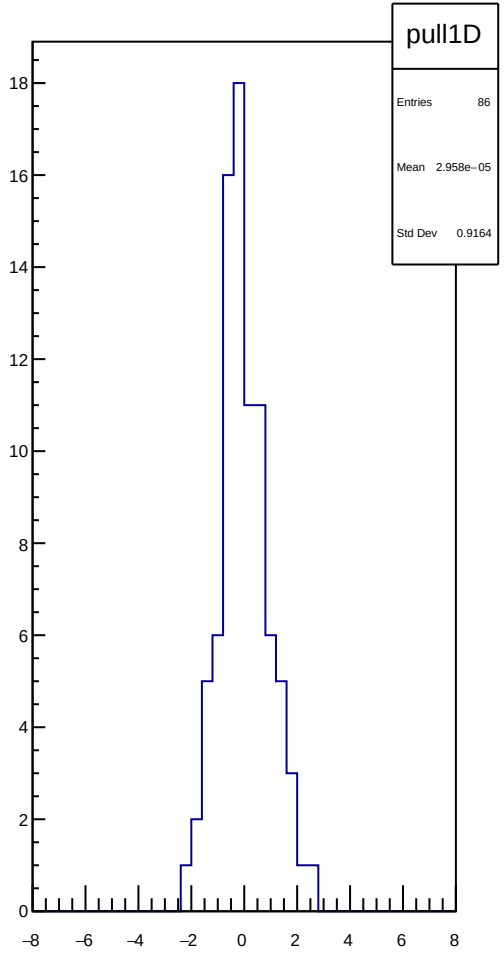

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.197e+06 / 85
p0 4.627e−11 ± 7.121e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

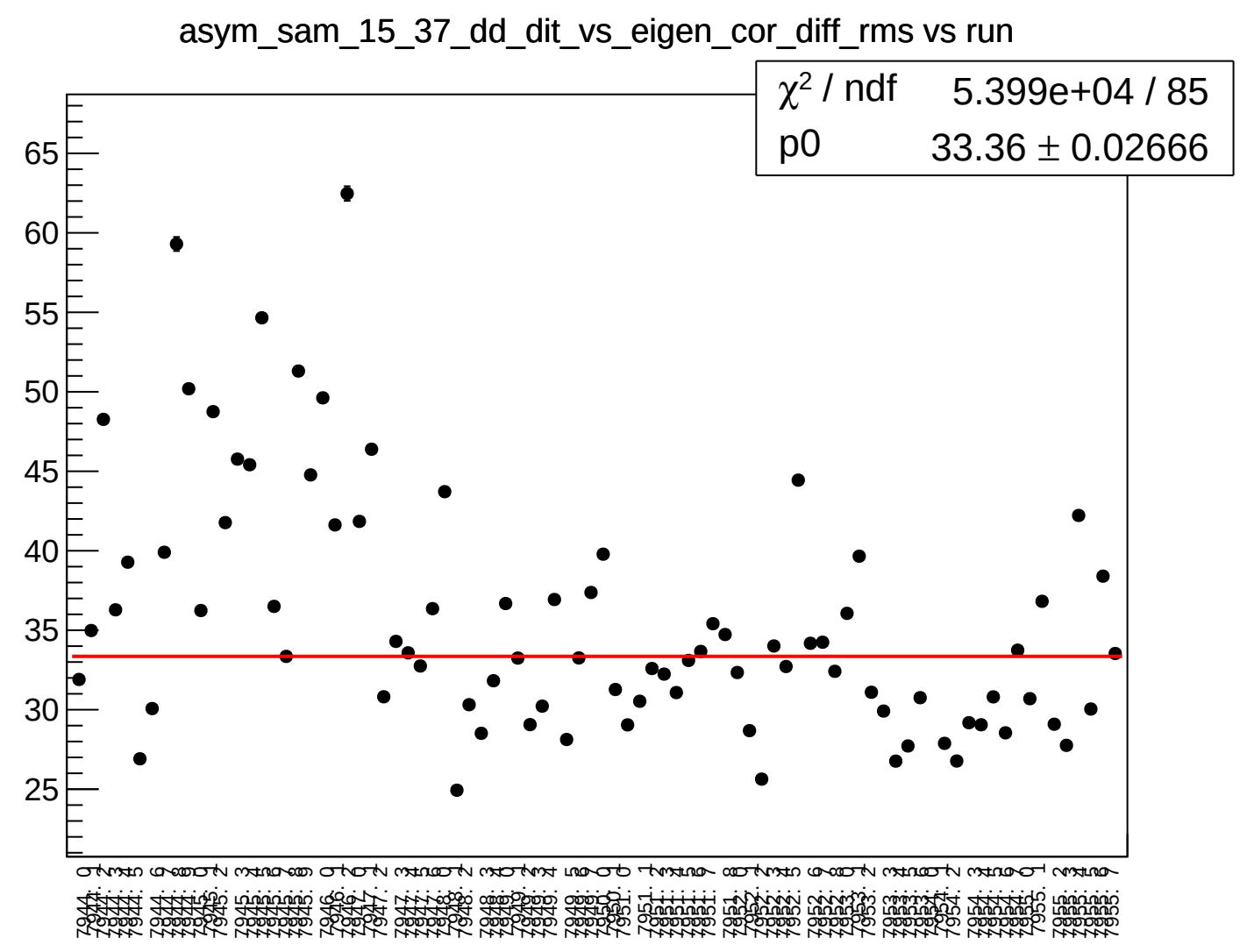

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.22 / 85
p0 0.0456 ± 0.03771
pull
Entries 86
Mean 3.611e+04
Std Dev 0

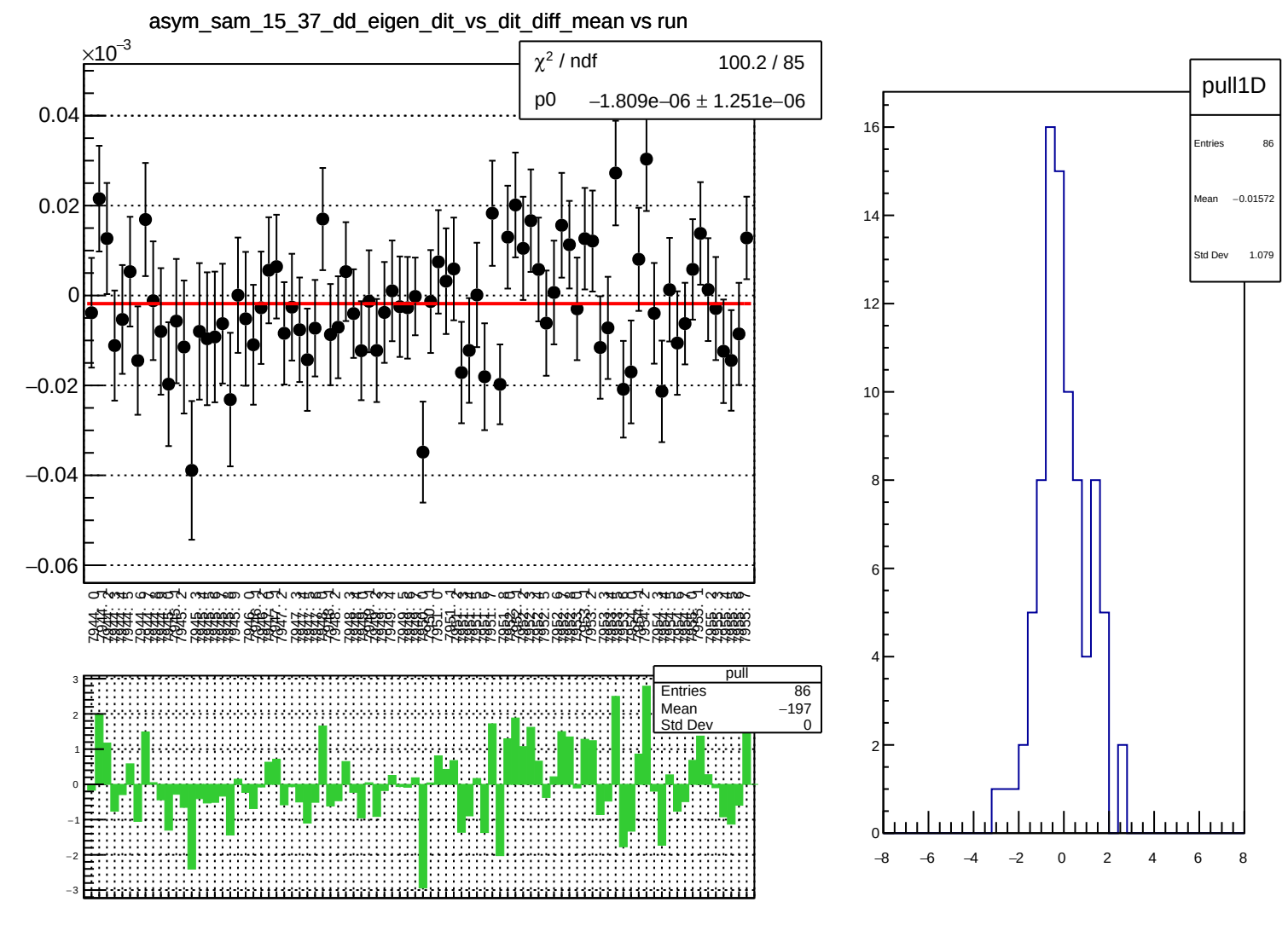

pull1D
Entries 86
Mean 2.958e−05
Std Dev 0.9164

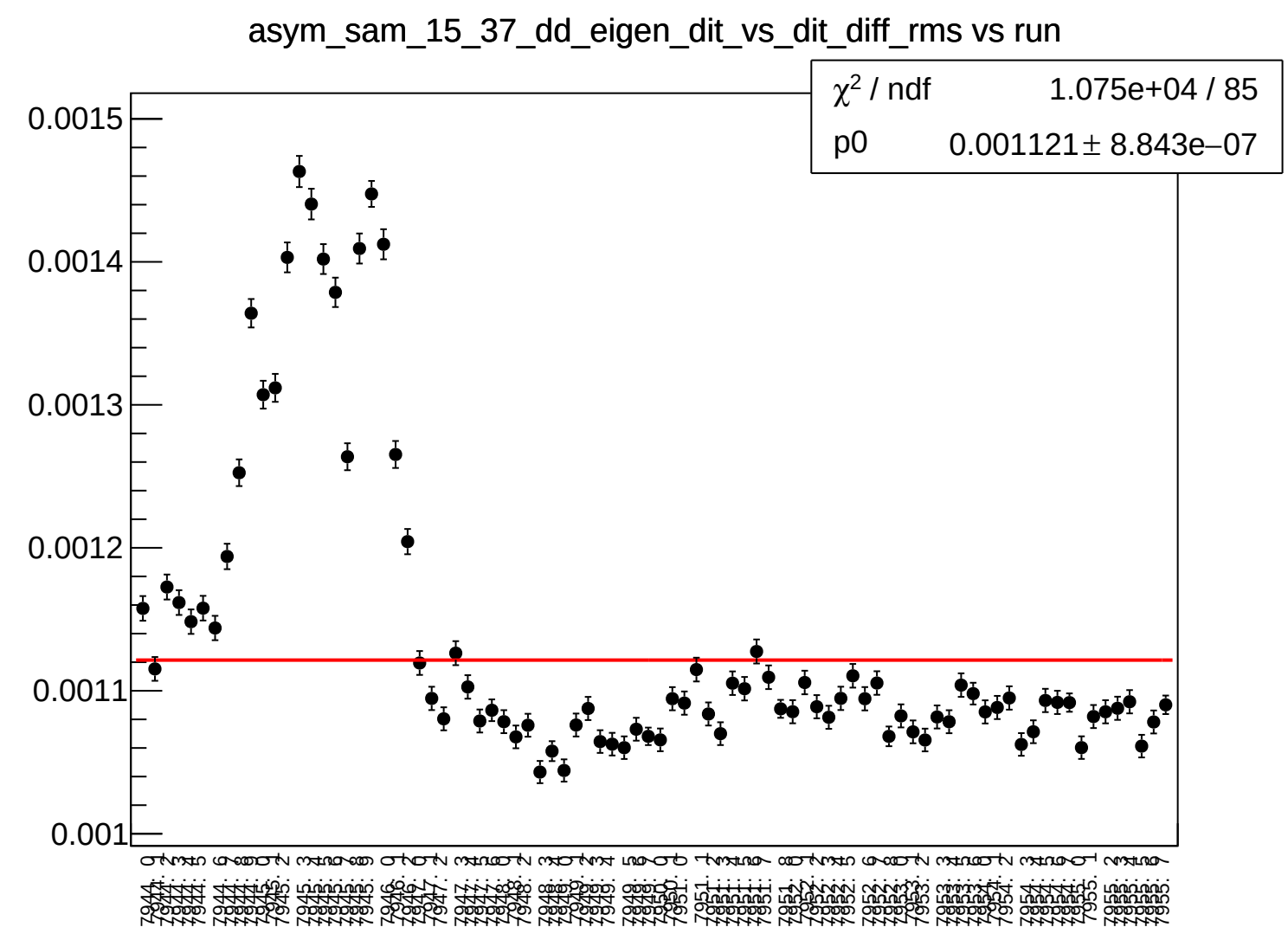

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.399e+04 / 85
p0 33.36 ± 0.02666
65
60
55
50
45
40
35
30
25

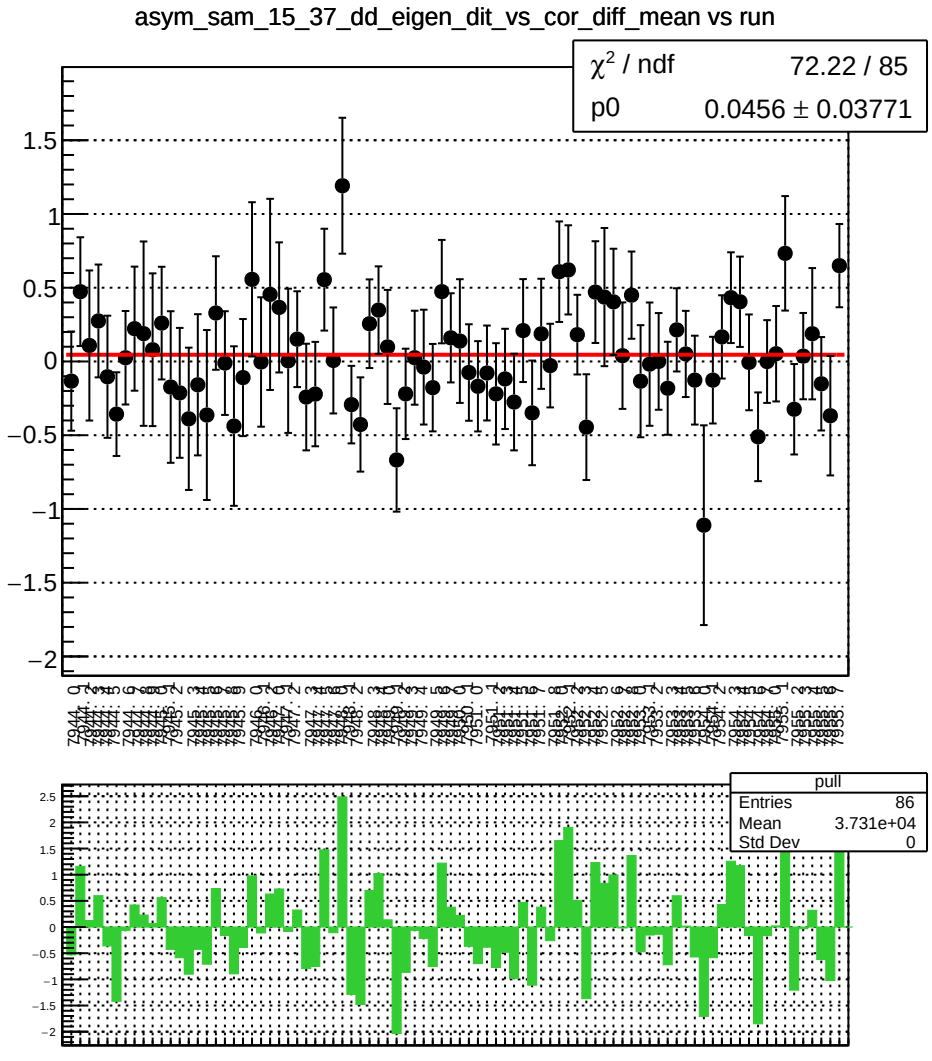

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.22 / 85
p0 0.0456 ± 0.03771
pull
Entries 86
Mean 3.611e+04
Std Dev 0

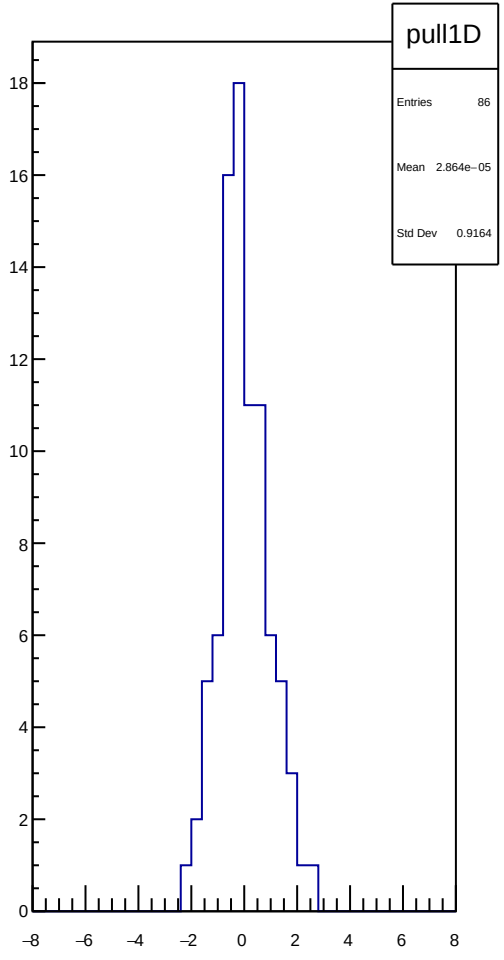

pull1D
Entries 86
Mean 2.958e−05
Std Dev 0.9164

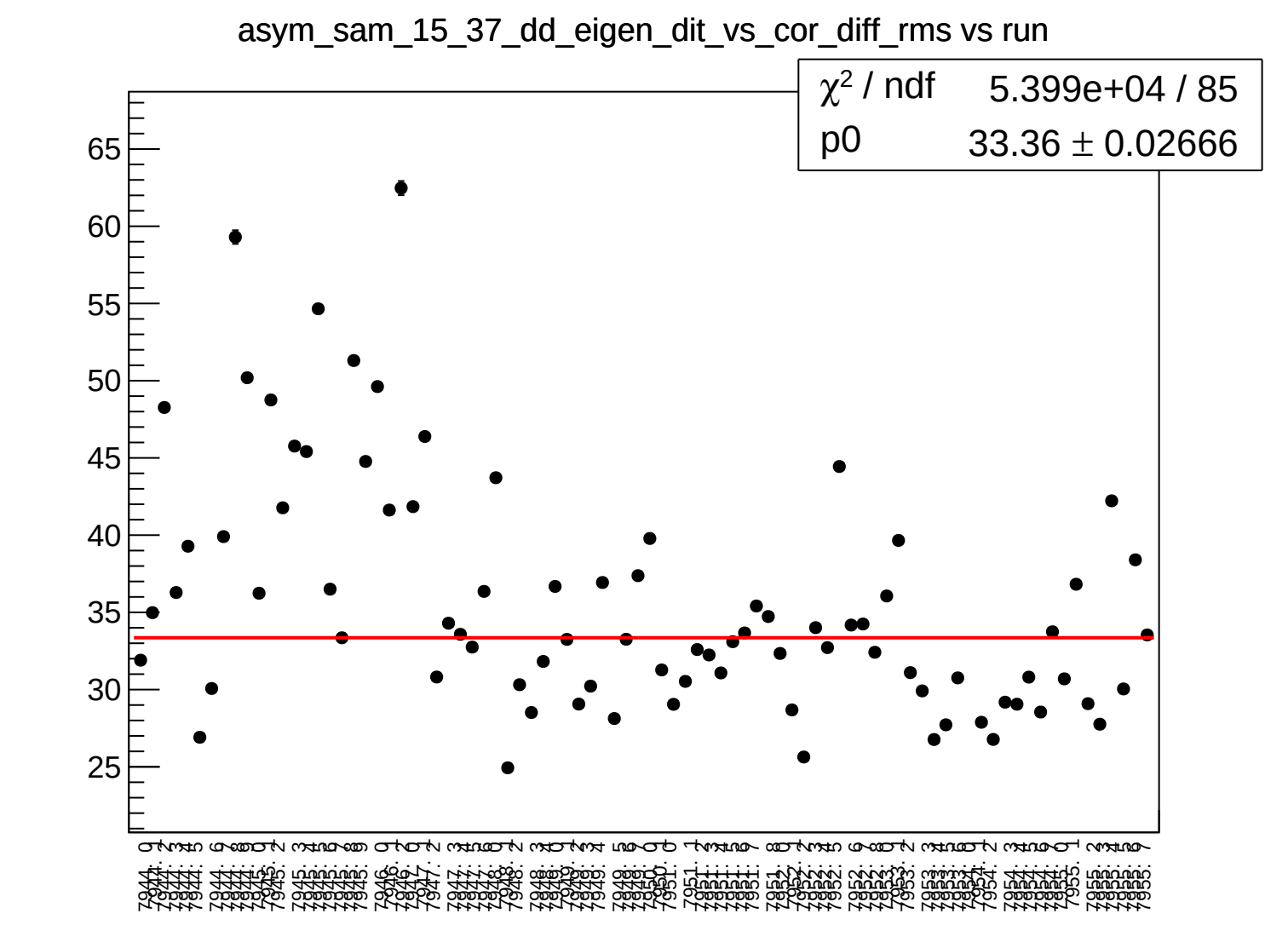

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.399e+04 / 85
p0 33.36 ± 0.02666
65
60
55
50
45
40
35
30
25

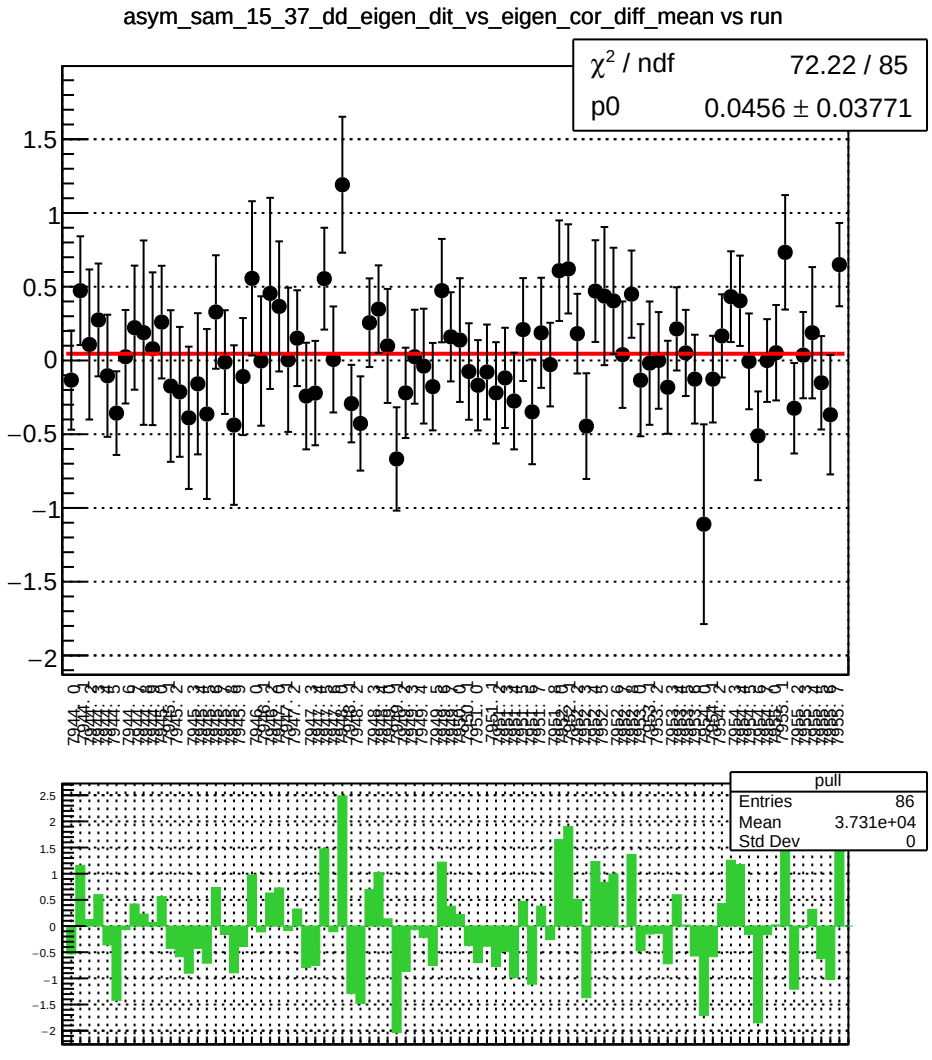

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.2 / 85
p0 −1.809e−06 ± 1.251e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −197
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01572
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

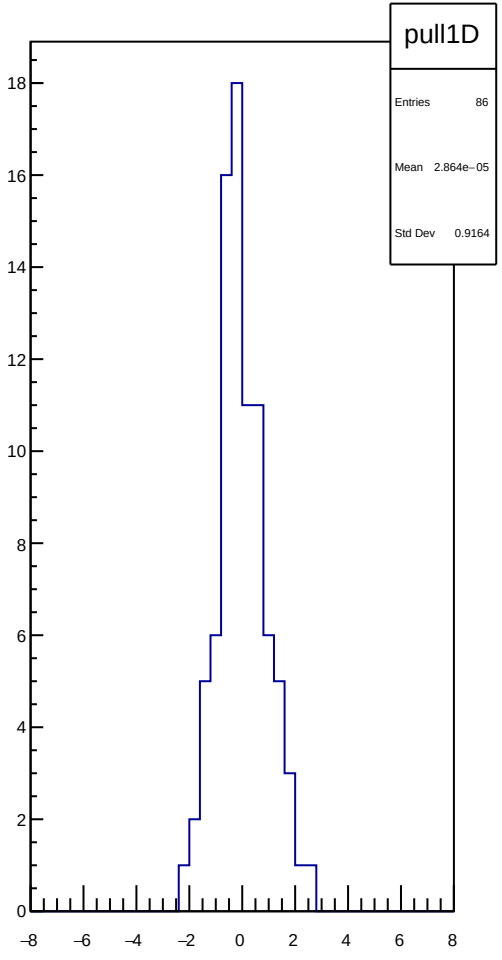

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.075e+04 / 85
p0 0.001121 ± 8.843e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001

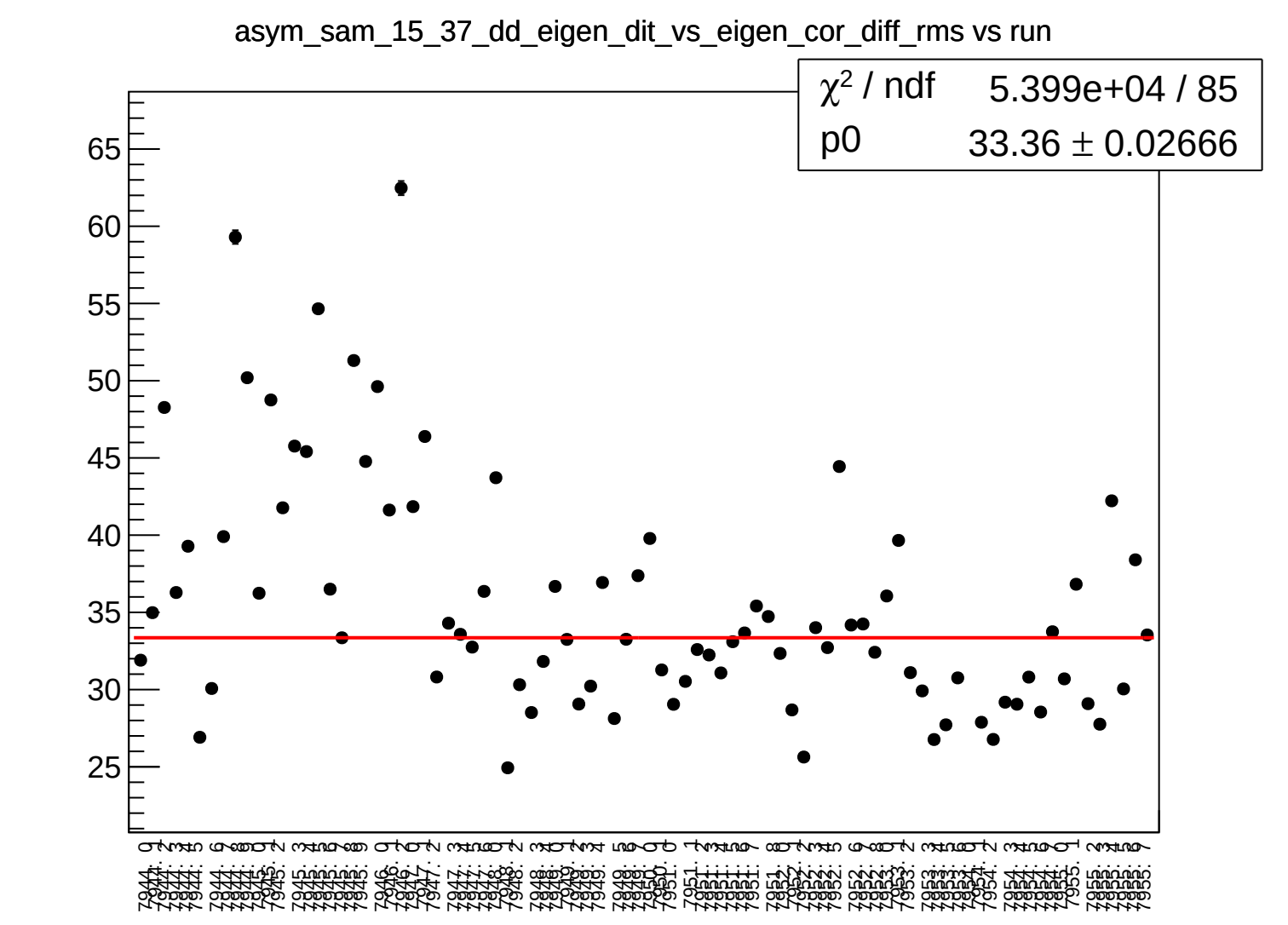

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.22 / 85
p0 0.0456 ± 0.03771
pull
Entries 86
Mean 3.731e+04
Std Dev 0

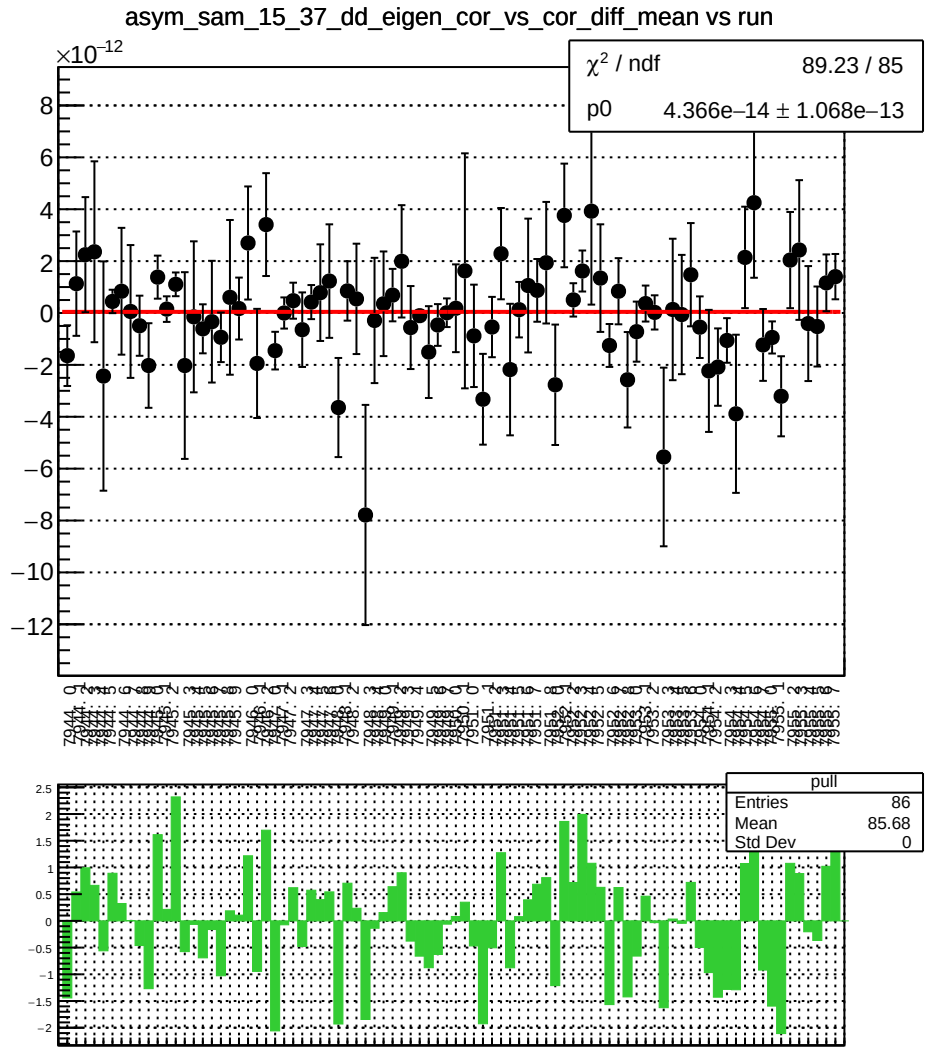

pull1D
Entries 86
Mean 2.864e−05
Std Dev 0.9164

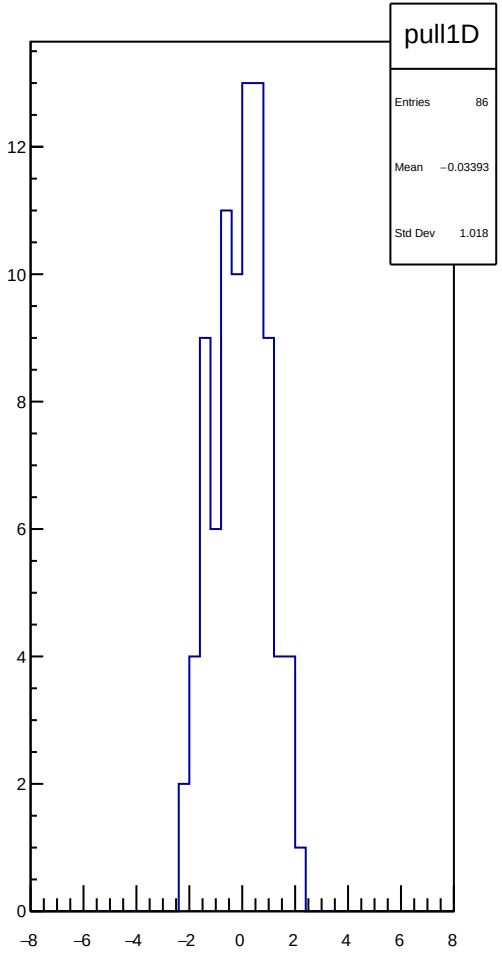

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.399e+04 / 85
p0 33.36 ± 0.02666
65
60
55
50
45
40
35
30
25

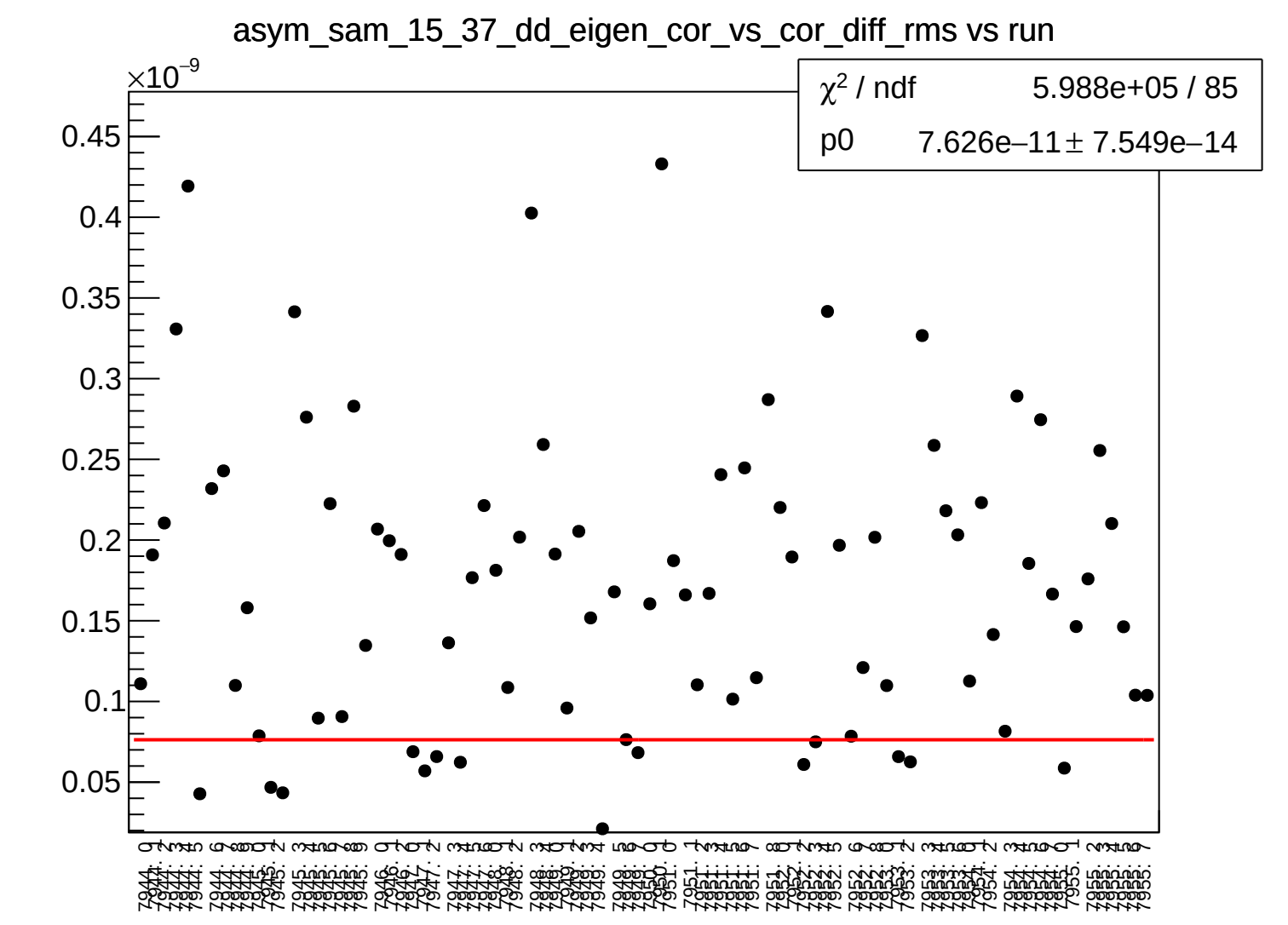

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.22 / 85
p0 0.0456 ± 0.03771
pull
Entries 86
Mean 3.731e+04
Std Dev 0

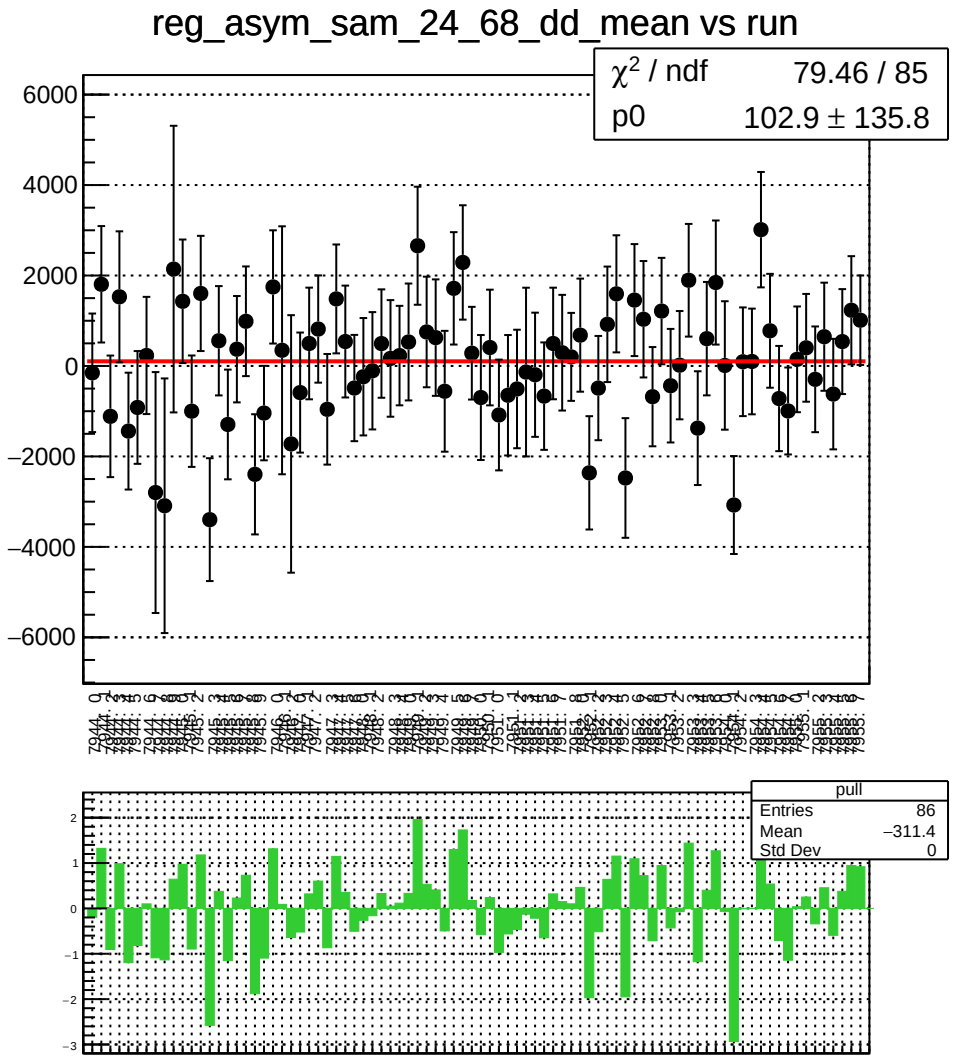

pull1D
Entries 86
Mean 2.864e−05
Std Dev 0.9164

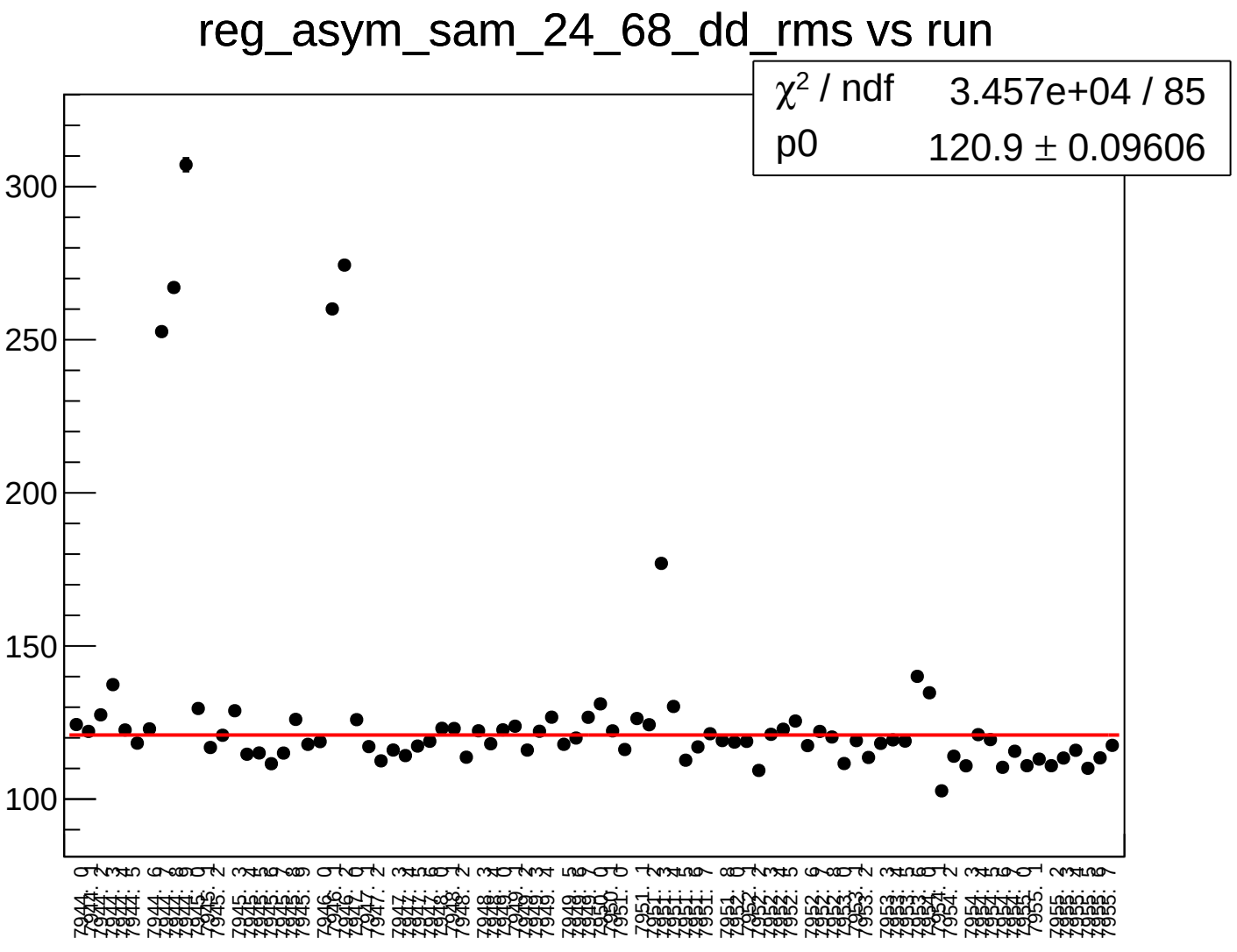

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.399e+04 / 85
p0 33.36 ± 0.02666
65
60
55
50
45
40
35
30
25

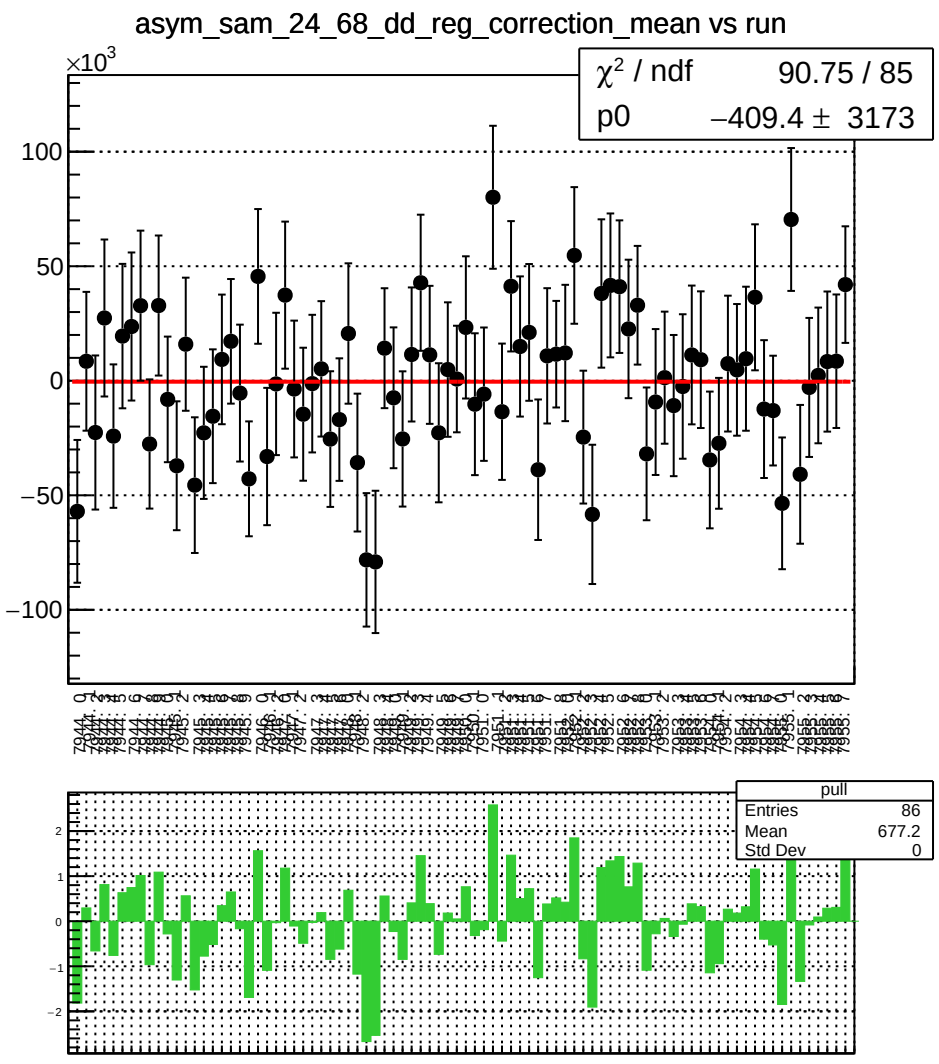

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.23 / 85
p0 4.366e−14 ± 1.068e−13
pull
Entries 86
Mean 85.68
Std Dev 0

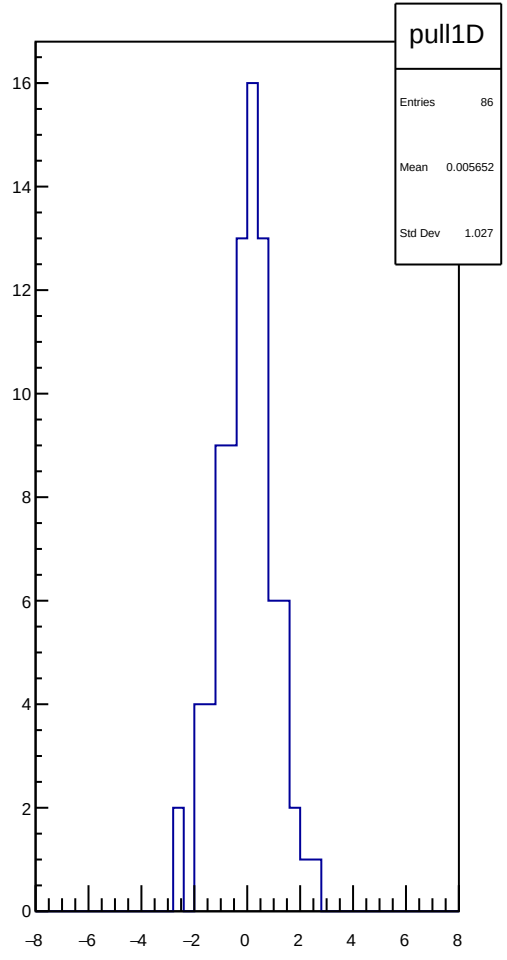

pull1D
Entries 86
Mean −0.03393
Std Dev 1.018

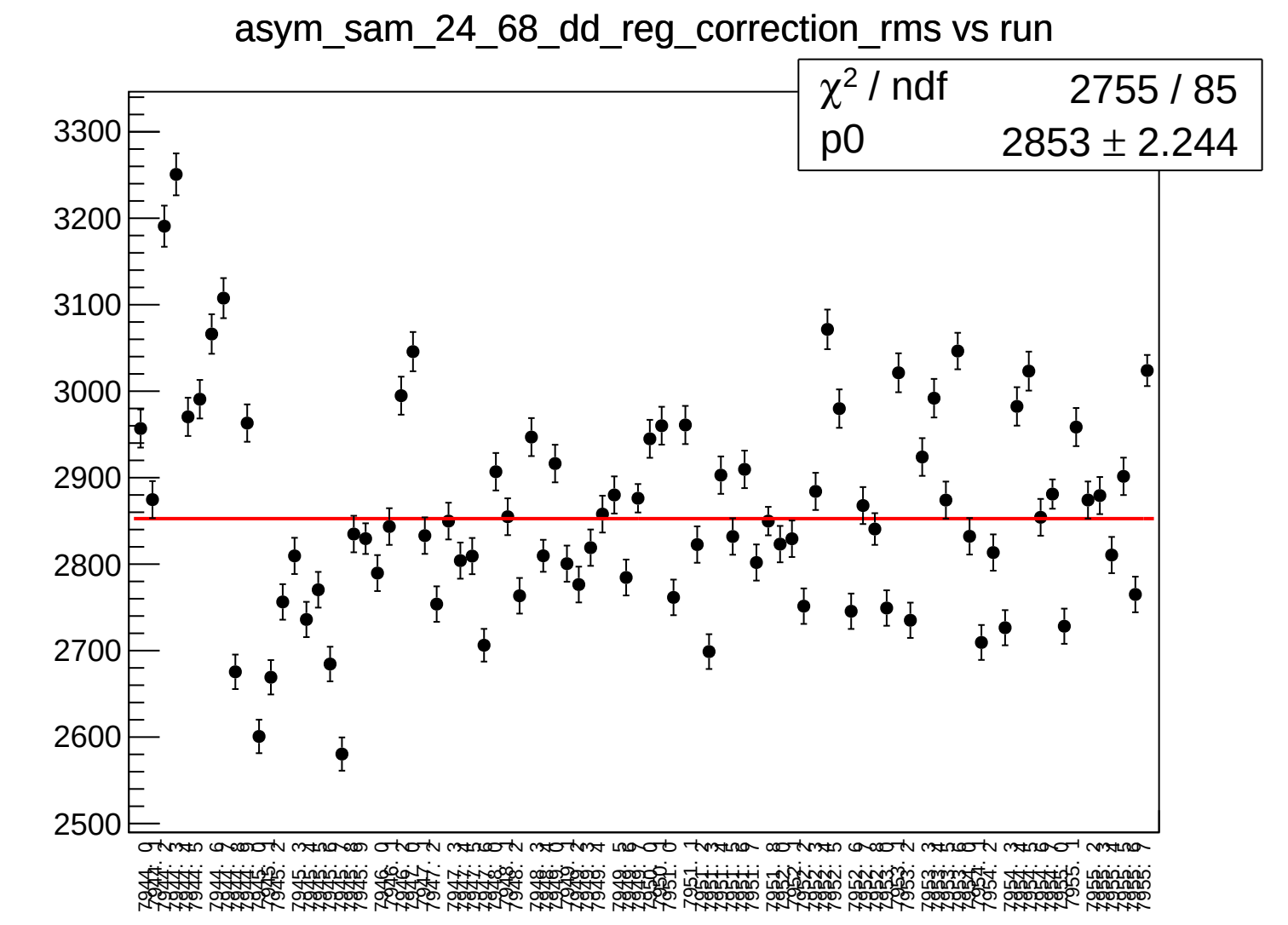

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.988e+05 / 85
p0 7.626e−11 ± 7.549e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

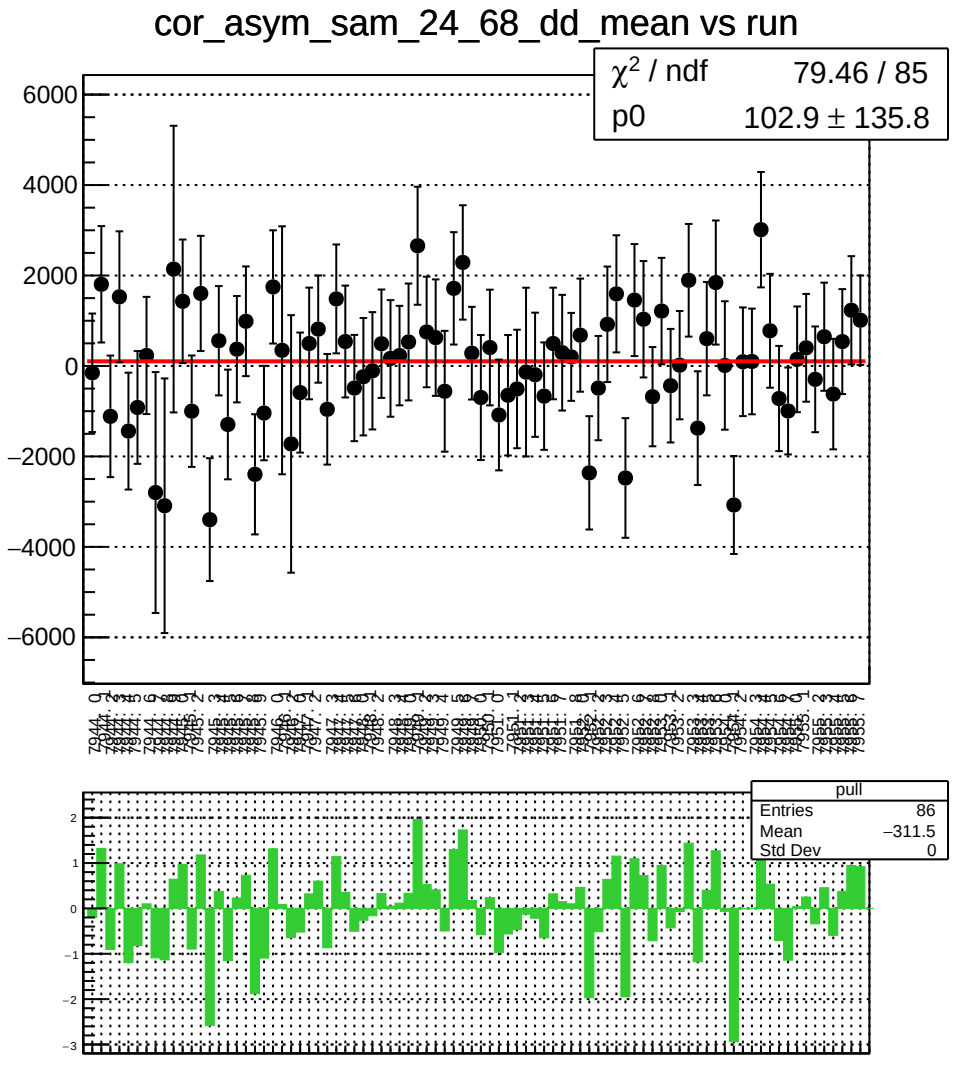

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 79.46 / 85
p0 102.9 ± 135.8
pull
Entries 86
Mean −311.4
Std Dev 0
pull1D
Entries 86
Mean −0.006466
Std Dev 0.9612

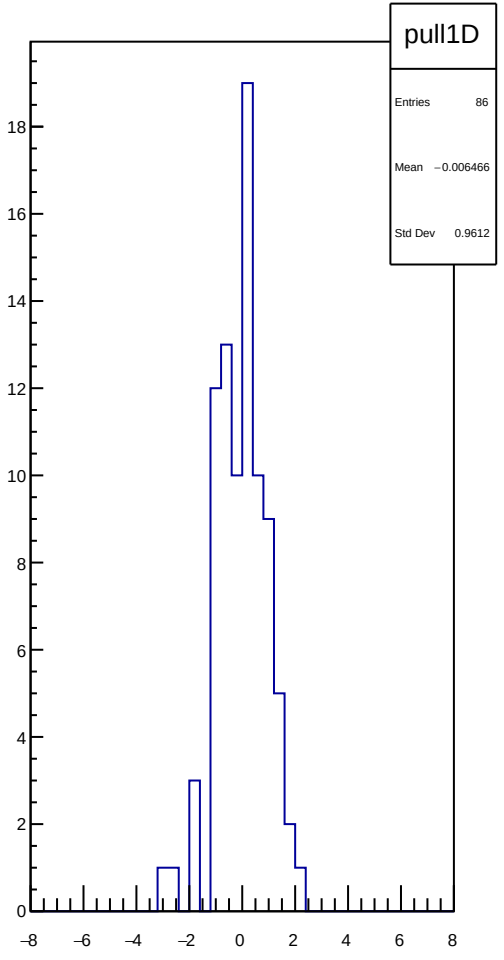

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 3.457e+04 / 85
p0 120.9 ± 0.09606
300
250
200
150
100

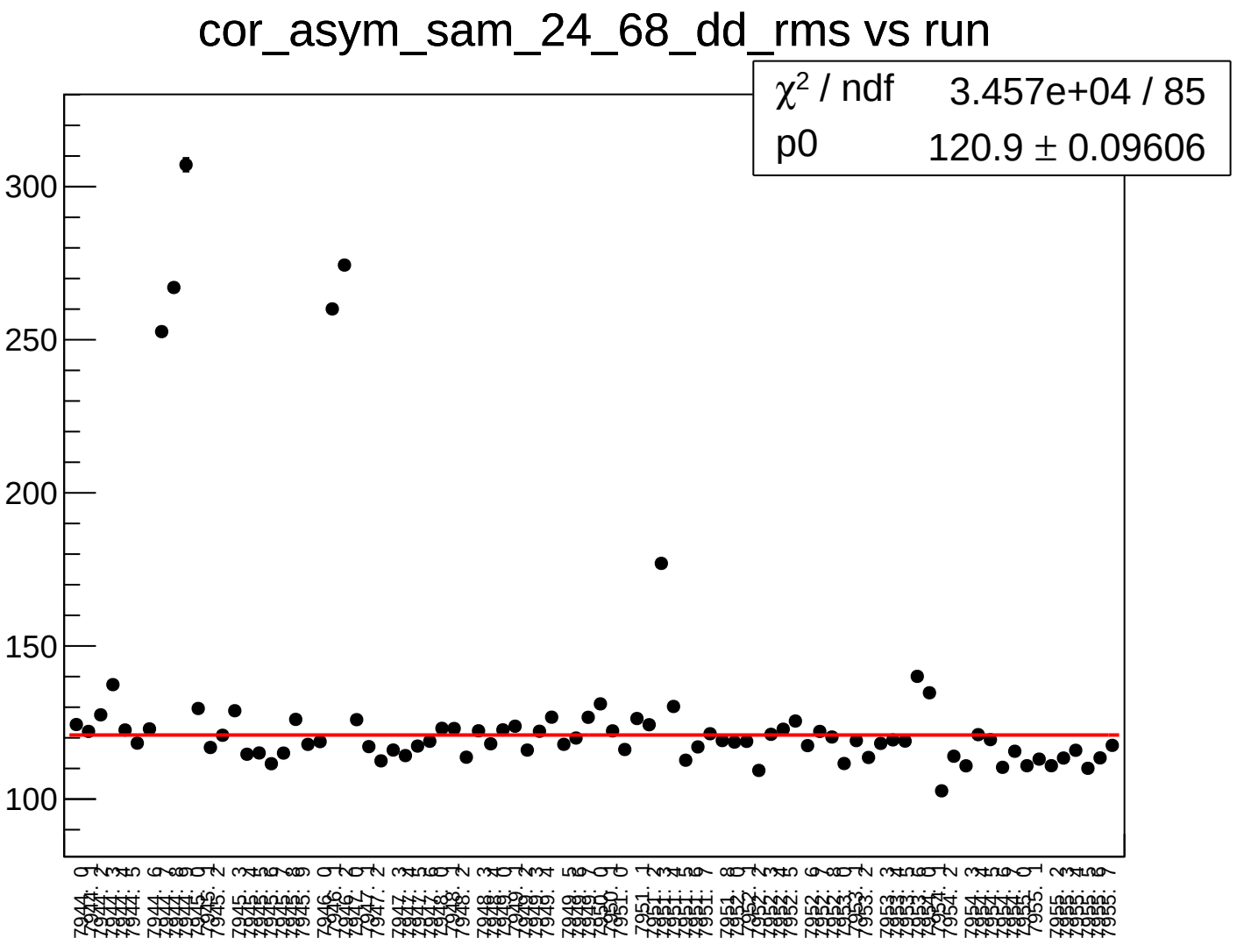

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 90.75 / 85
p0 −409.4 ± 3173
100
50
0
−50
−100
pull
Entries 86
Mean 677.2
Std Dev 0
2
1
0
−1
−2

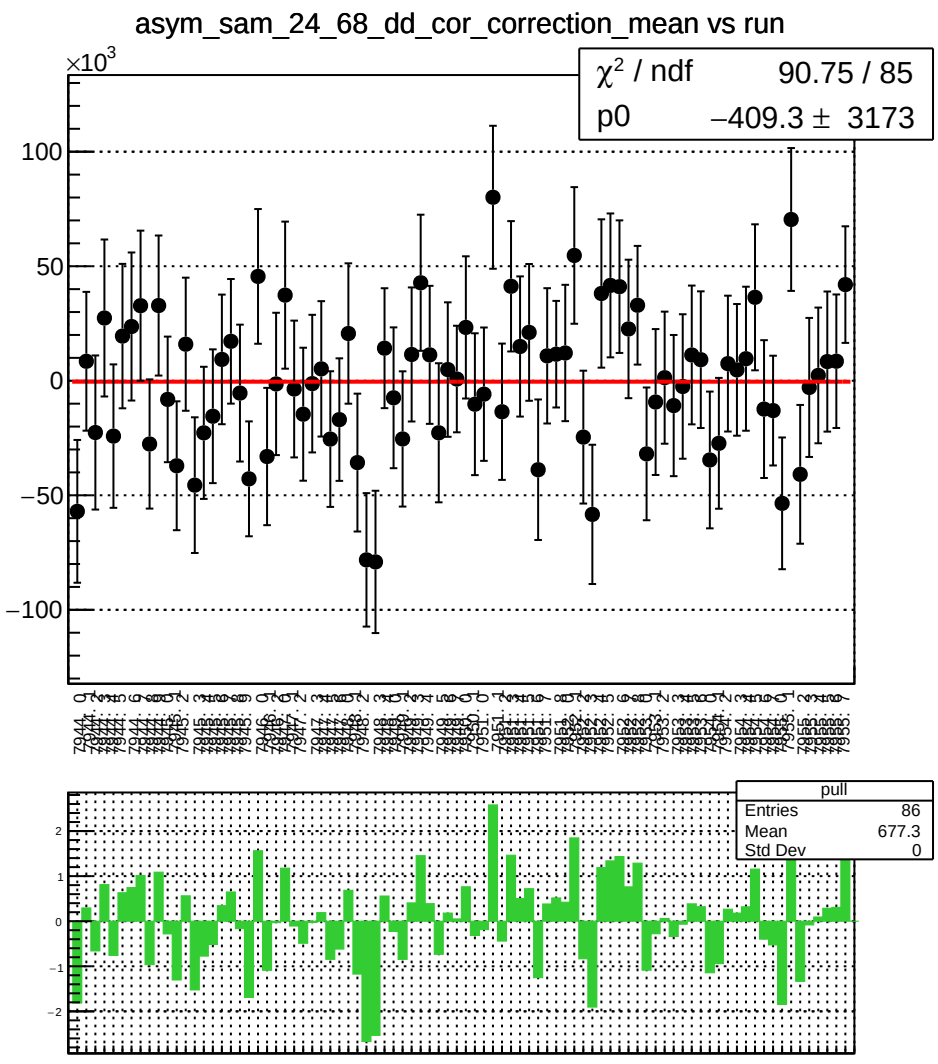

pull1D
Entries 86
Mean 0.005652
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

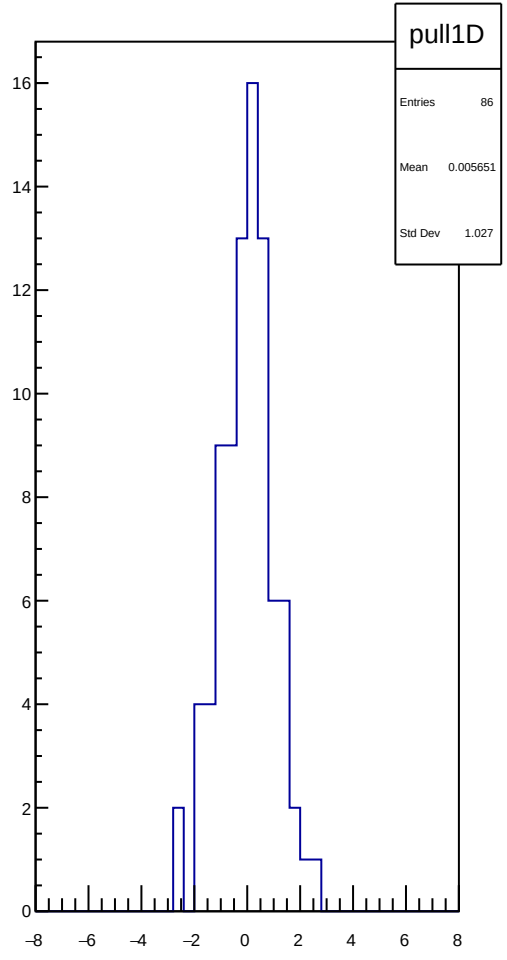

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2755 / 85
p0 2853 ± 2.244
3300
3200
3100
3000
2900
2800
2700
2600
2500

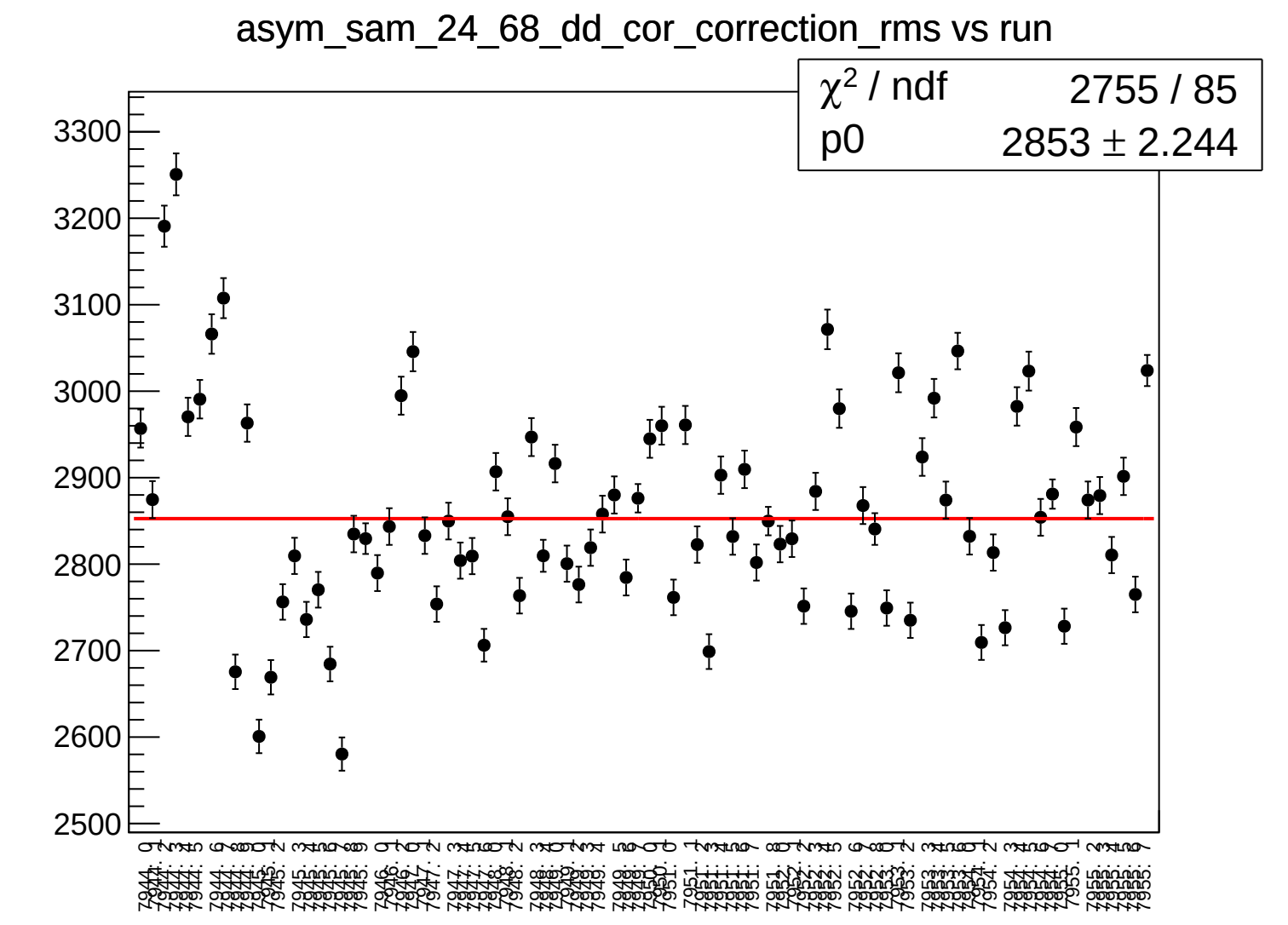

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 79.46 / 85
p0 102.9 ± 135.8
pull
Entries 86
Mean −311.5
Std Dev 0

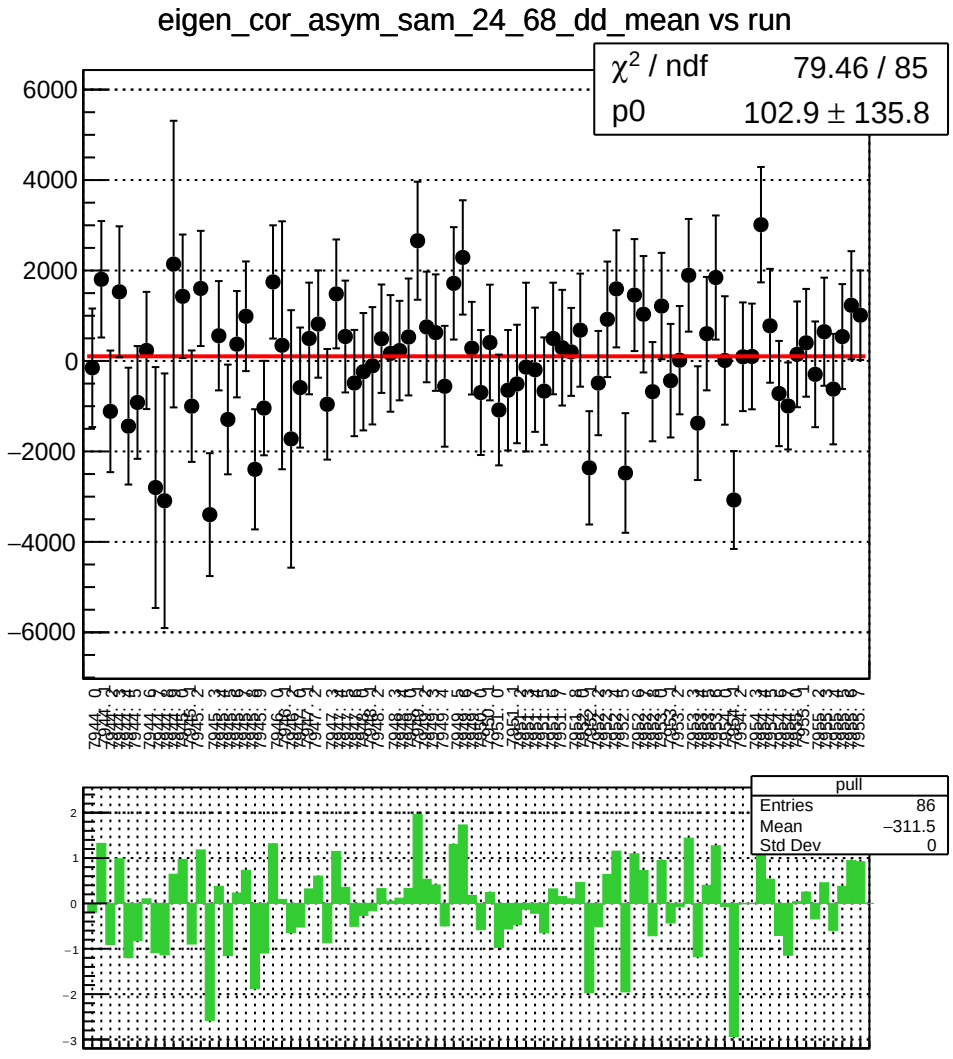

pull1D
Entries 86
Mean −0.006466
Std Dev 0.9612

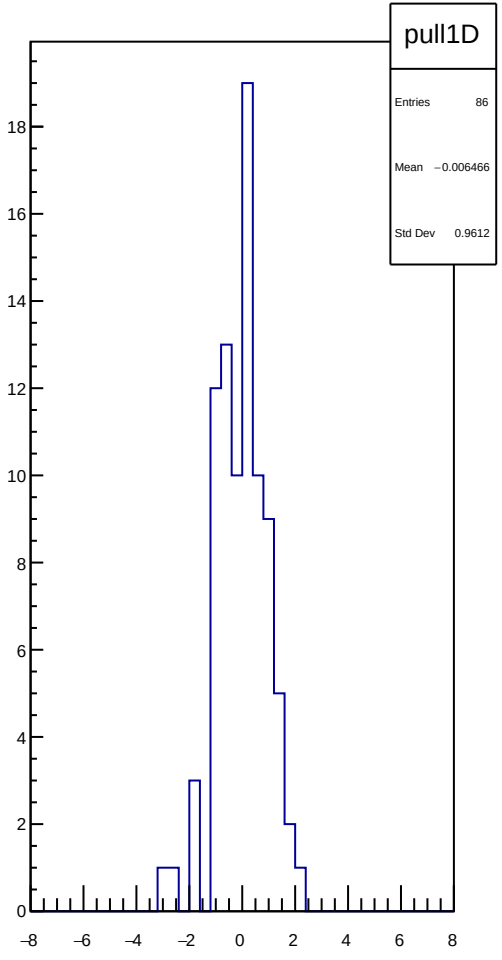

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 3.457e+04 / 85
p0 120.9 ± 0.09606
300
250
200
150
100

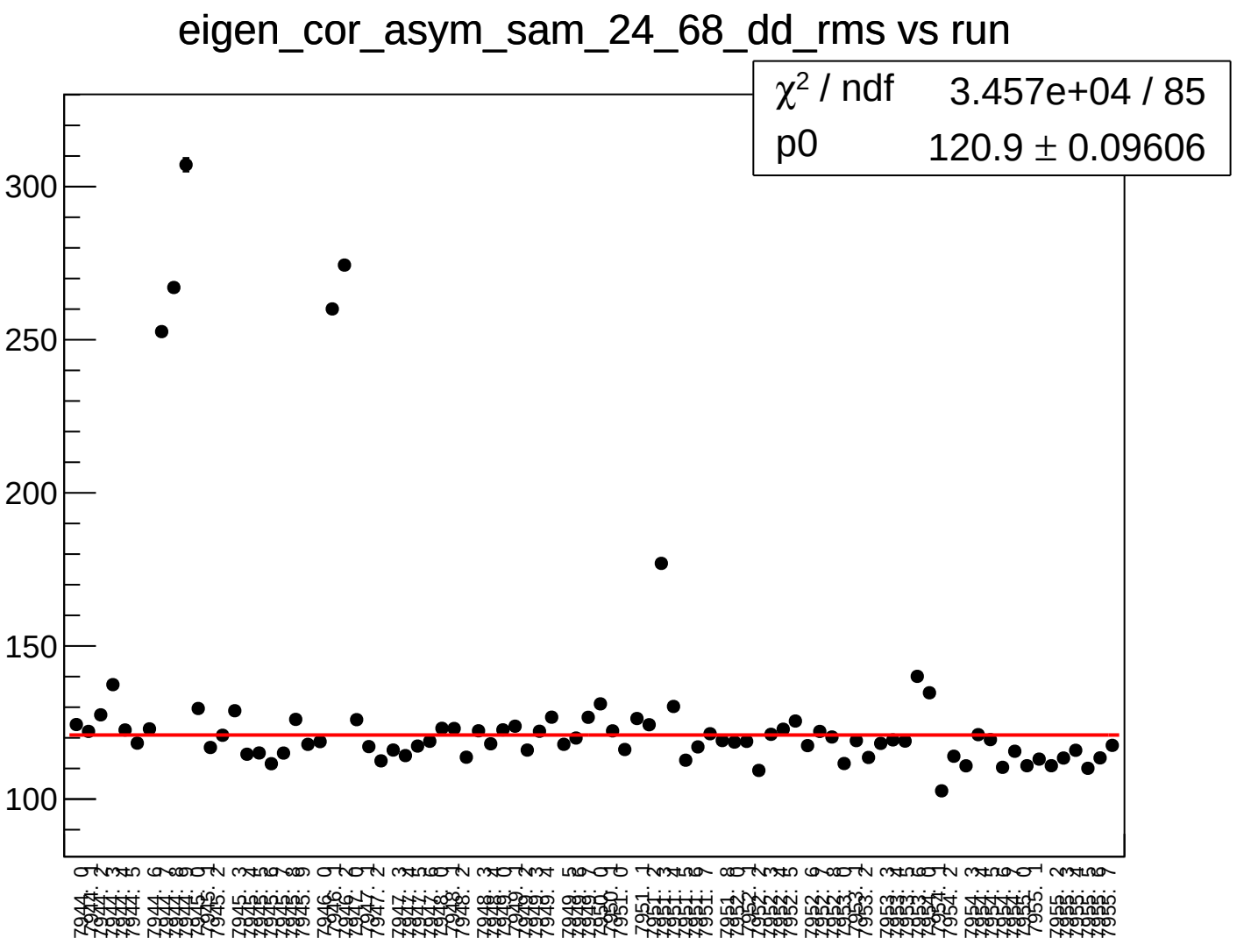

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 90.75 / 85
p0 −409.3 ± 3173
100
50
0
−50
−100
pull
Entries 86
Mean 677.3
Std Dev 0
2
1
0
−1
−2

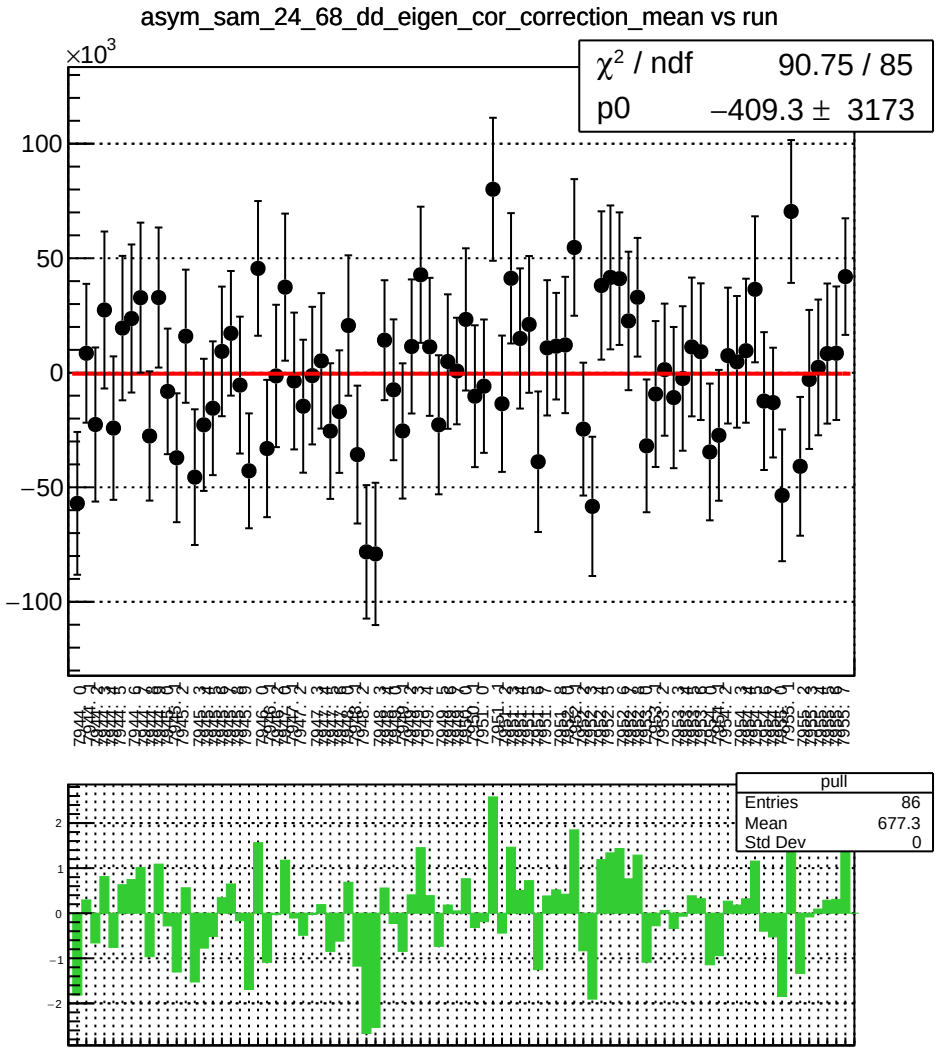

pull1D
Entries 86
Mean 0.005651
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

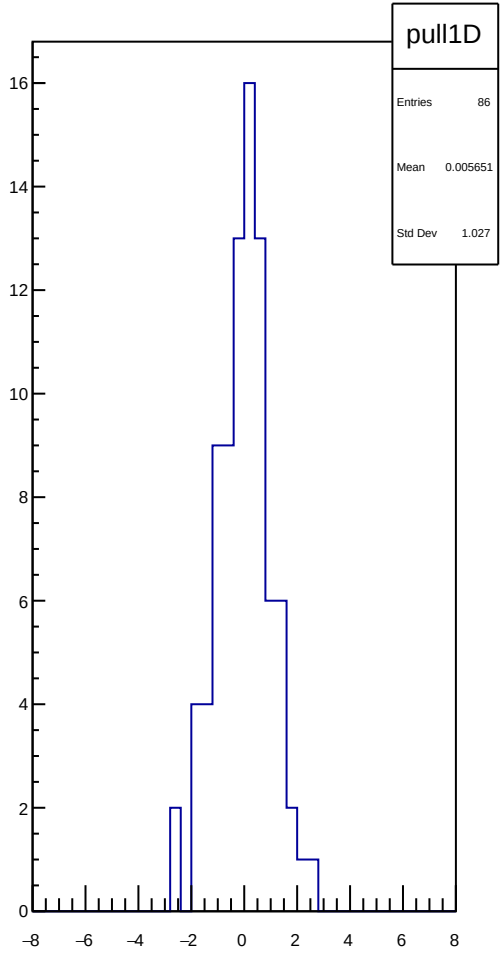

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2755 / 85
p0 2853 ± 2.244
3300
3200
3100
3000
2900
2800
2700
2600
2500

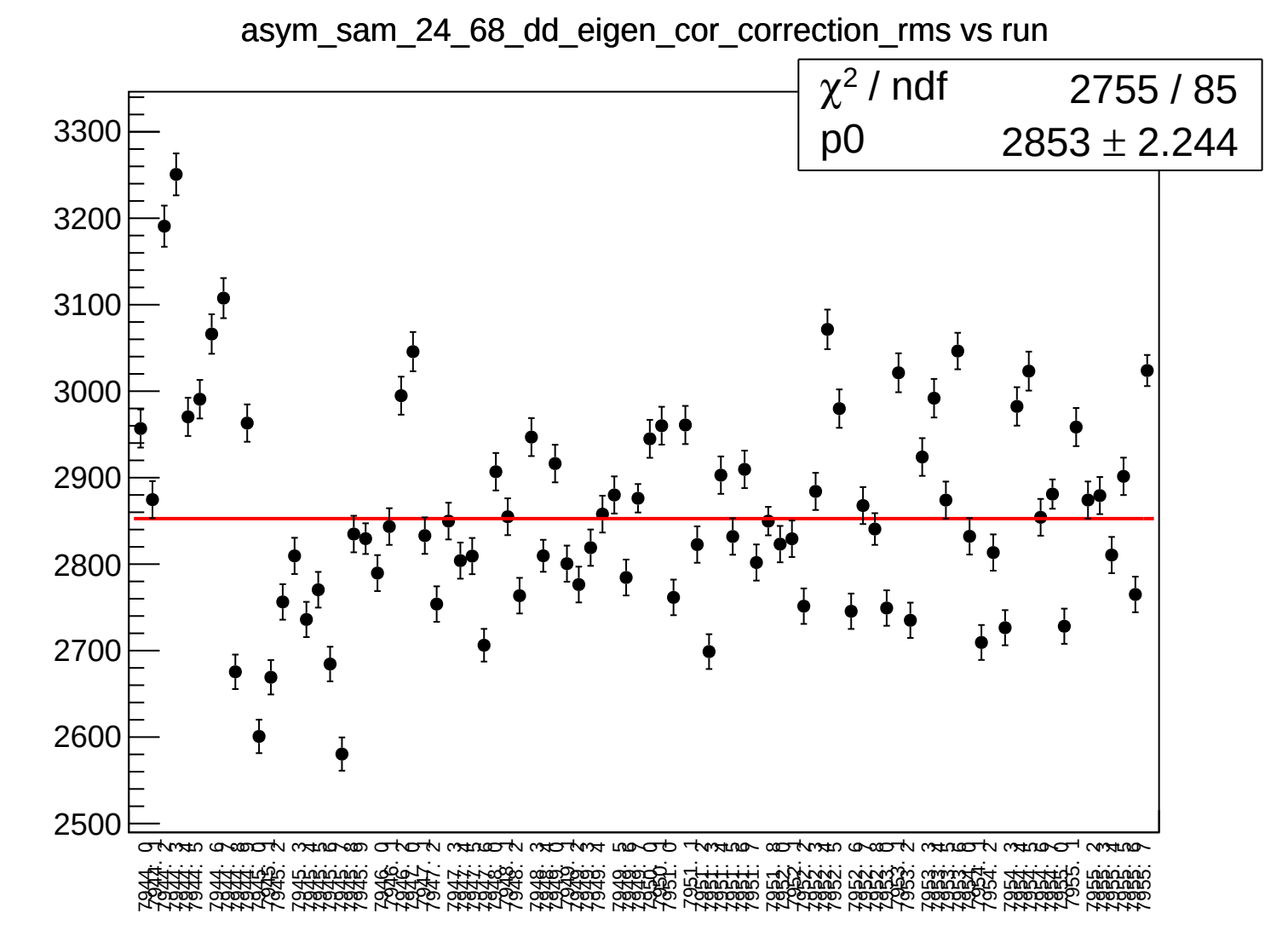

eigen_cor_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 79.46 / 85
p0 102.9 ± 135.8
pull
Entries 86
Mean −311.5
Std Dev 0

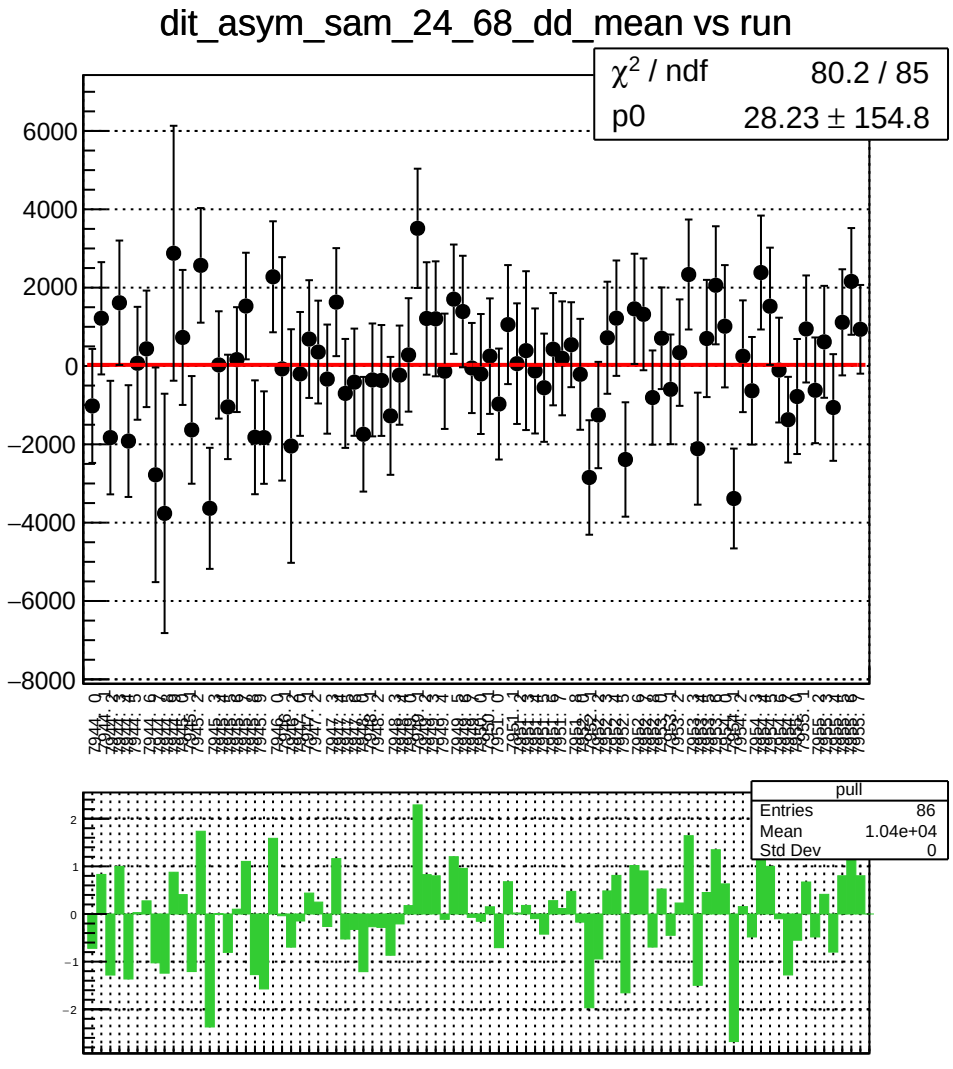

pull1D
Entries 86
Mean −0.006466
Std Dev 0.9612

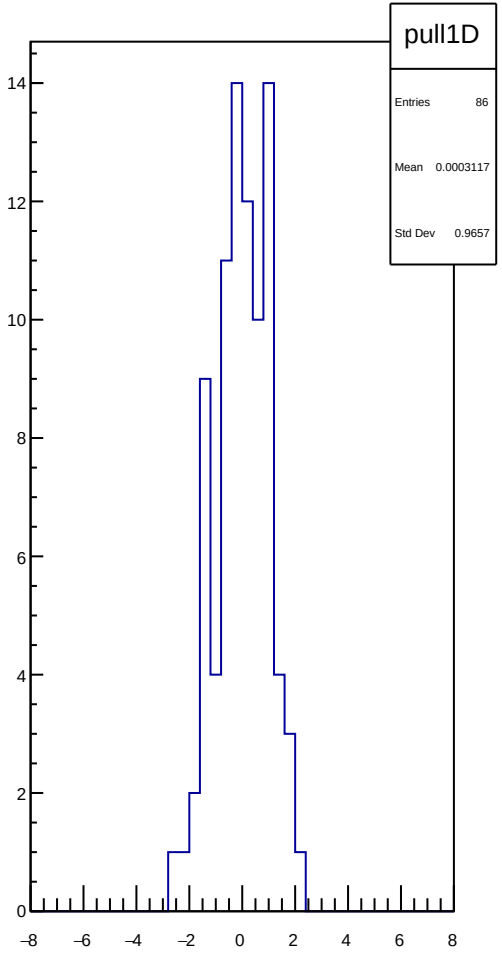

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 3.457e+04 / 85
p0 120.9 ± 0.09606
300
250
200
150
100

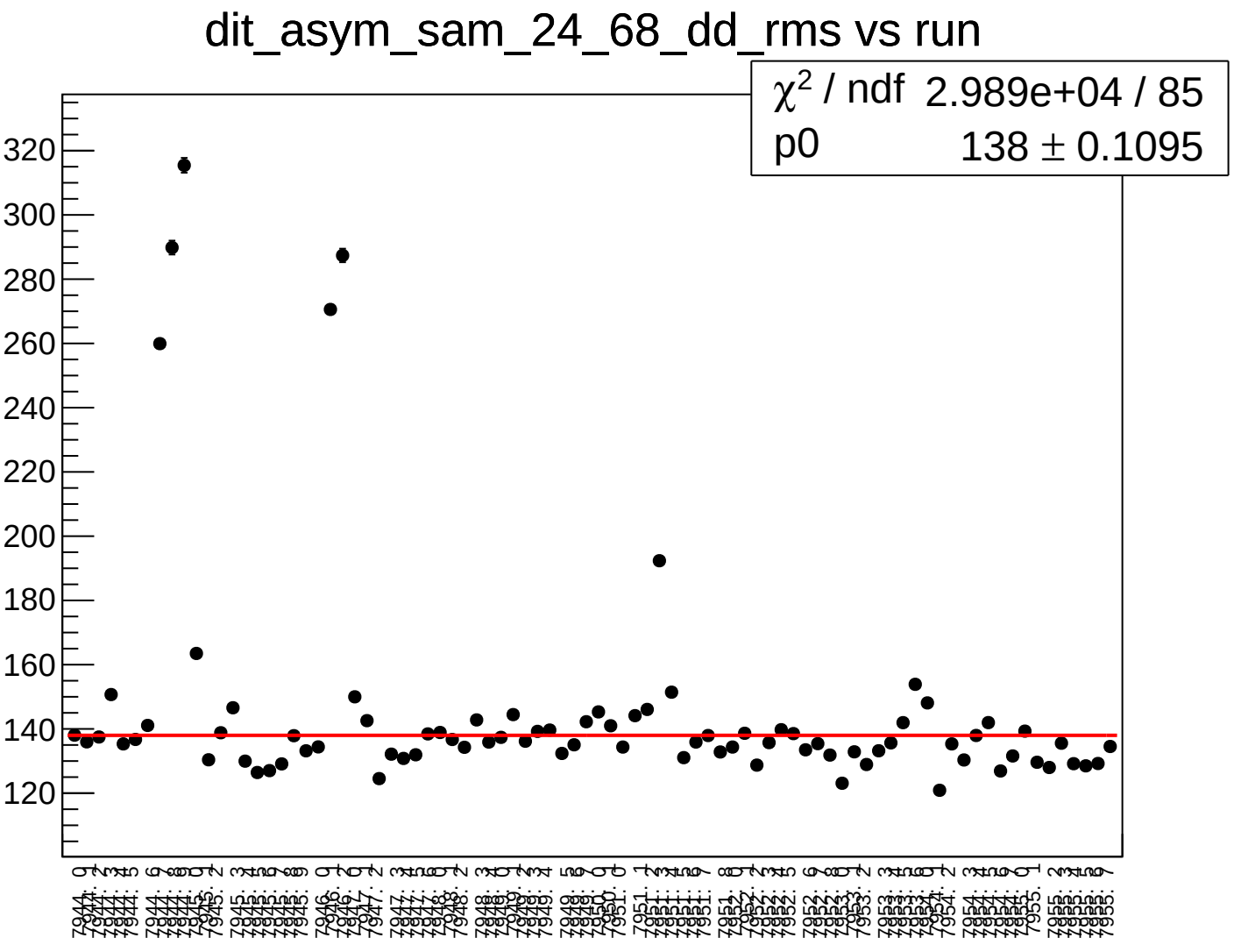

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.75 / 85
p0 −409.3 ± 3173
100
50
0
−50
−100
pull
Entries 86
Mean 677.3
Std Dev 0
2
1
0
−1
−2

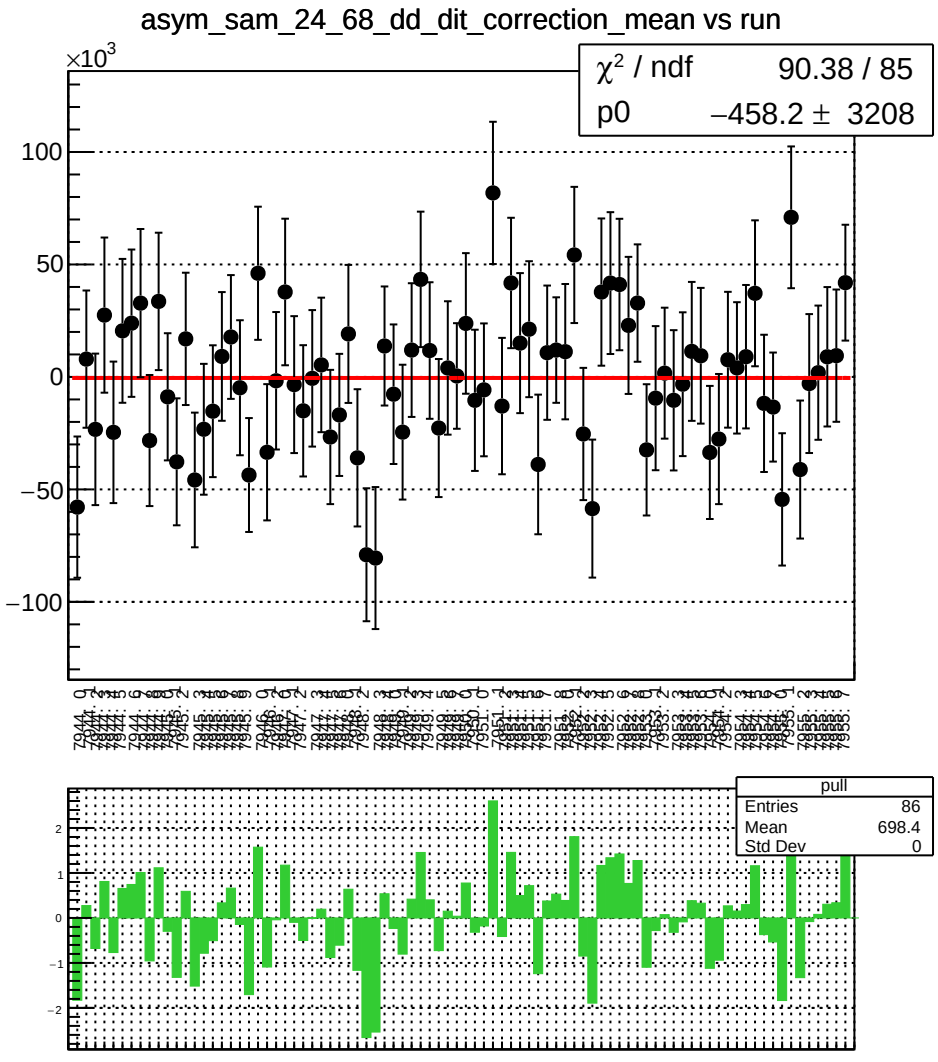

pull1D
Entries 86
Mean 0.005651
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

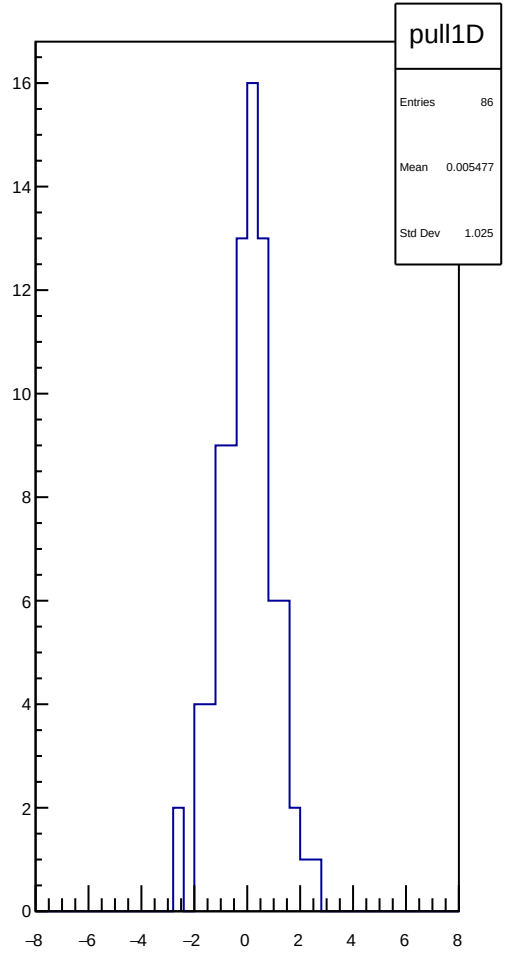

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2755 / 85
p0 2853 ± 2.244
3300
3200
3100
3000
2900
2800
2700
2600
2500

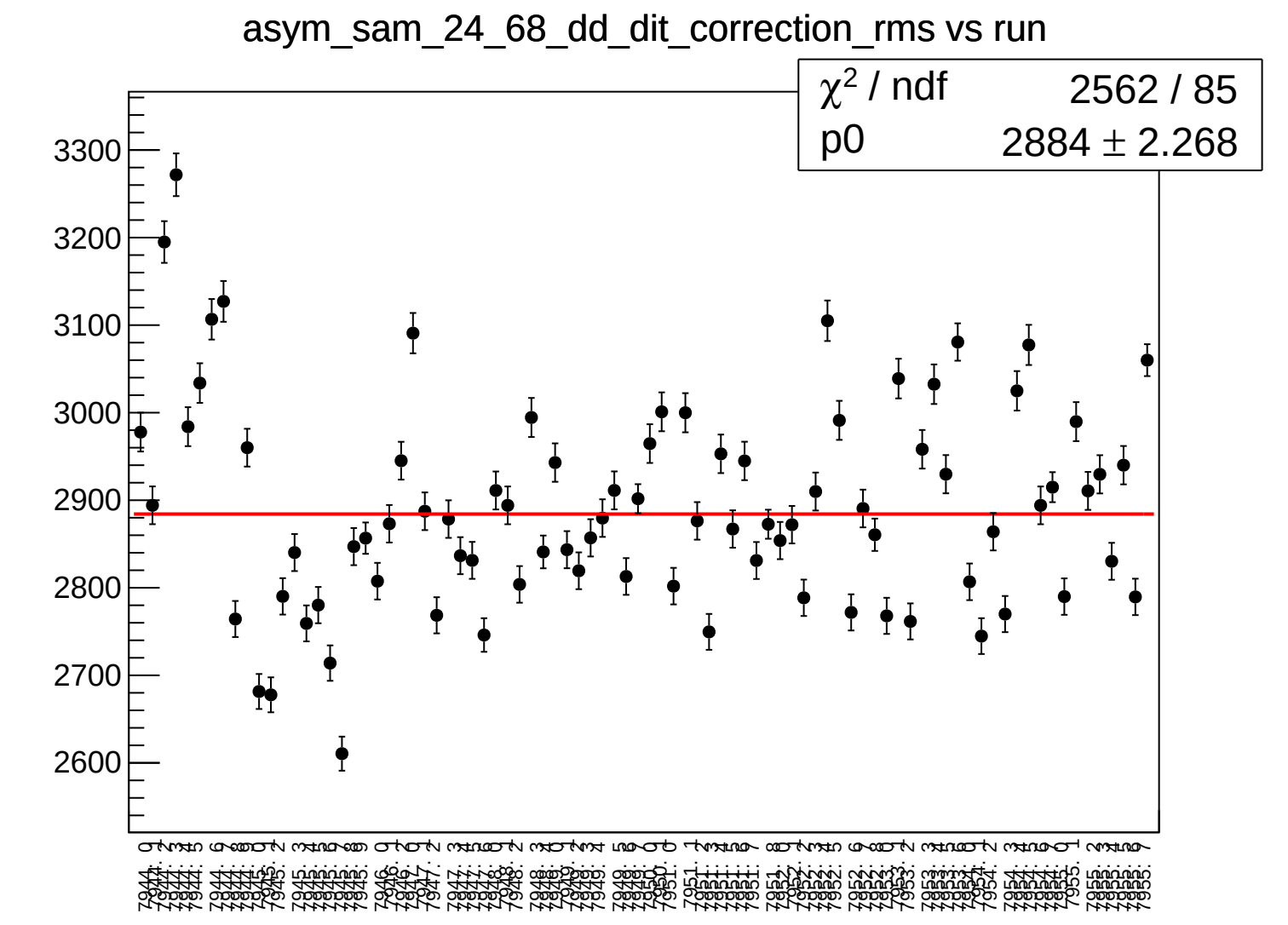

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.2 / 85
p0 28.23 ± 154.8
pull
Entries 86
Mean 1.04e+04
Std Dev 0

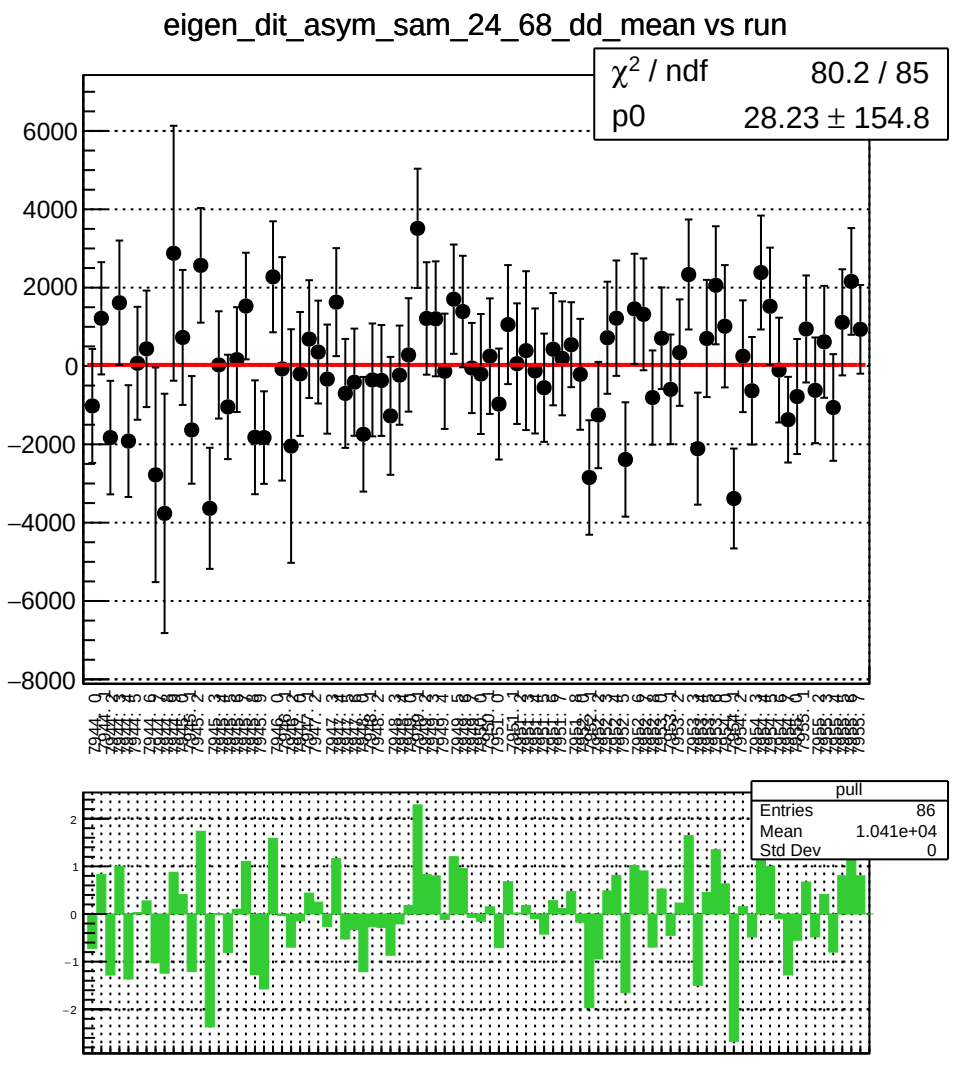

pull1D
Entries 86
Mean 0.0003117
Std Dev 0.9657

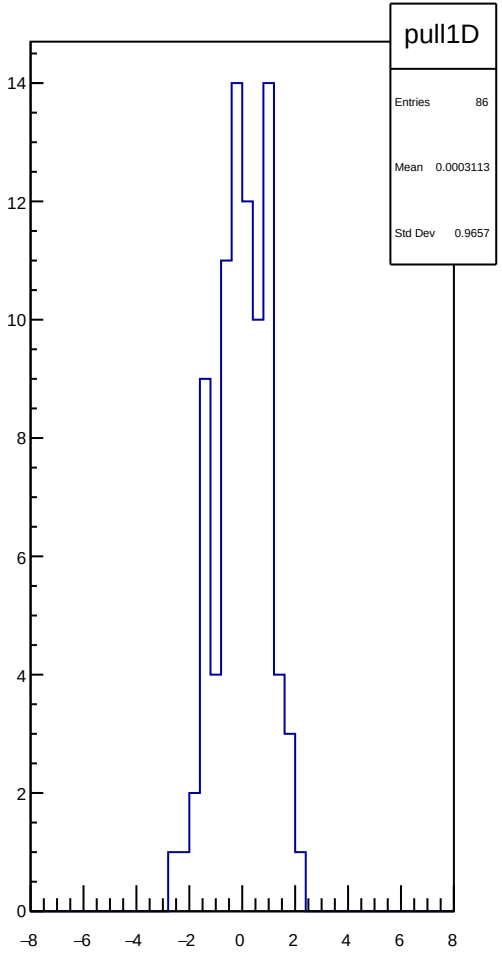

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.989e+04 / 85
p0 138 ± 0.1095
320
300
280
260
240
220
200
180
160
140
120

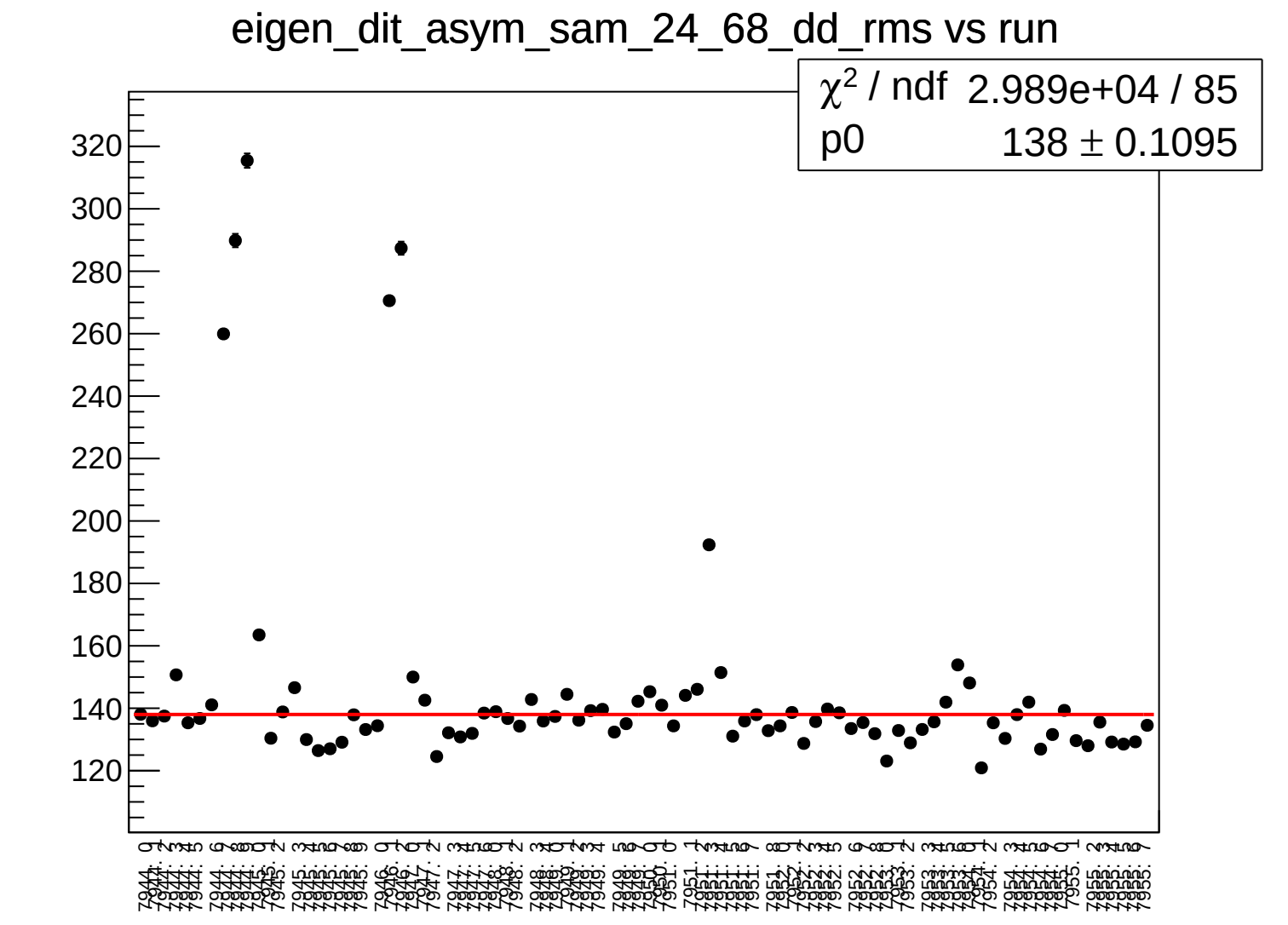

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 90.38 / 85
p0 −458.2 ± 3208
100
50
0
−50
−100
pull
Entries 86
Mean 698.4
Std Dev 0
2
1
0
−1
−2

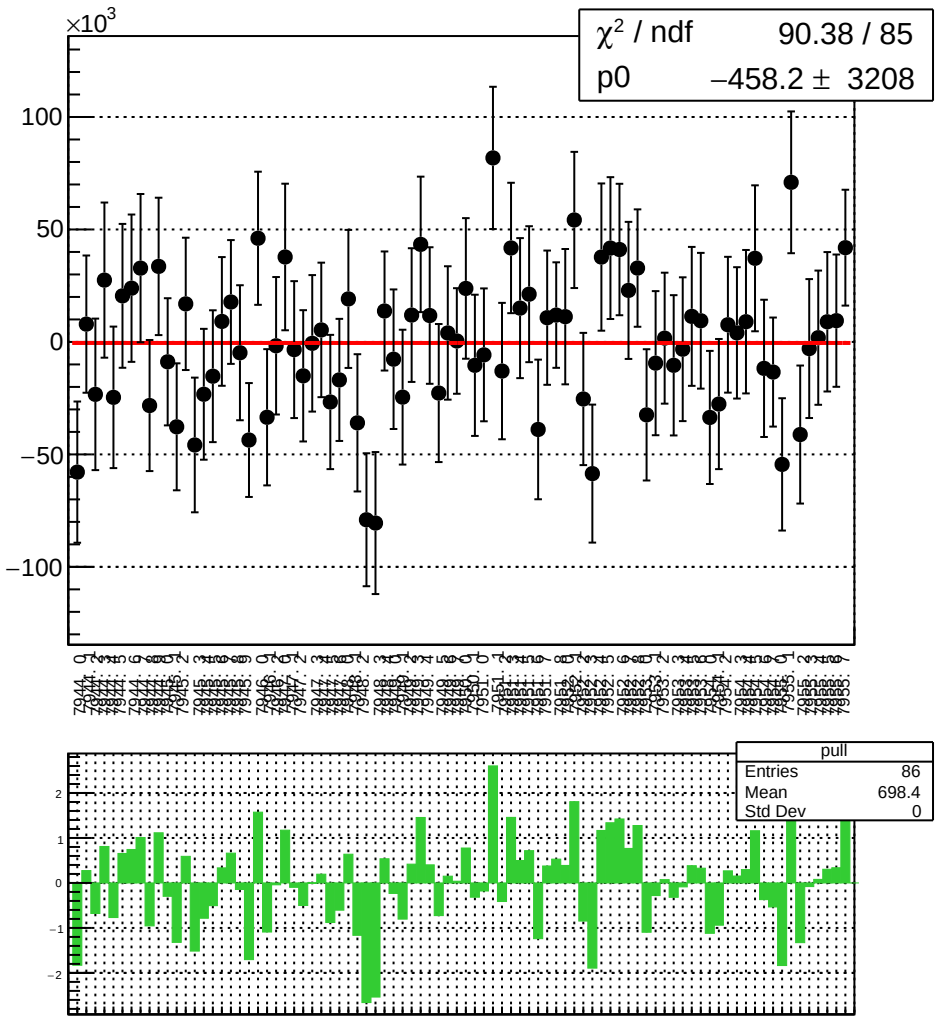

pull1D
Entries 86
Mean 0.005477
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

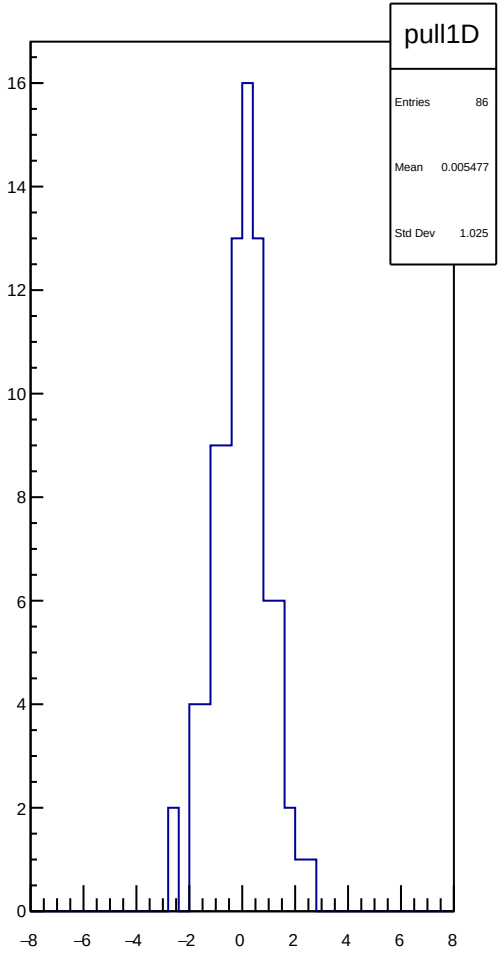

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 2562 / 85
p0 2884 ± 2.268
3300
3200
3100
3000
2900
2800
2700
2600

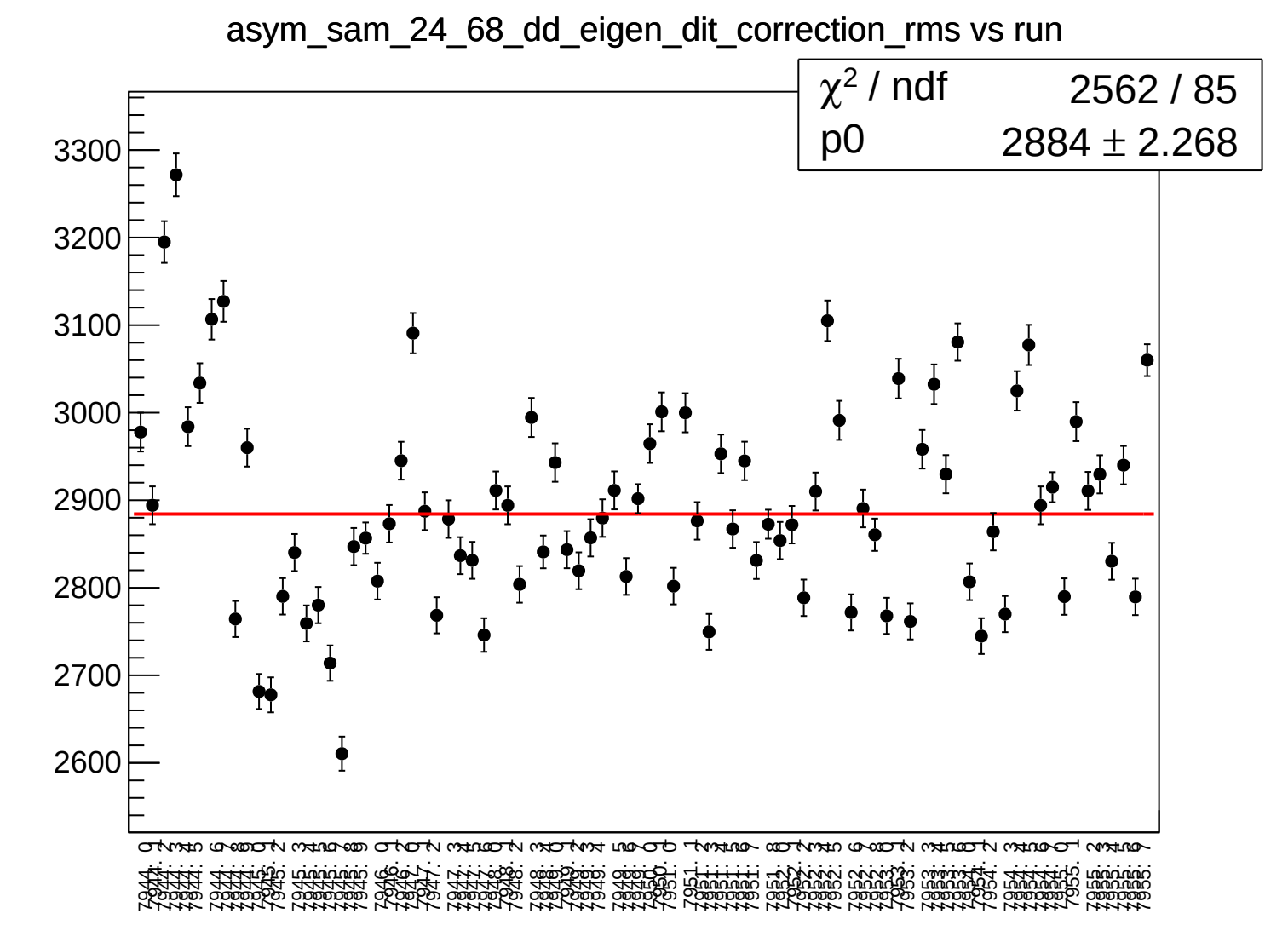

eigen_dit_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 80.2 / 85
p0 28.23 ± 154.8
pull
Entries 86
Mean 1.041e+04
Std Dev 0

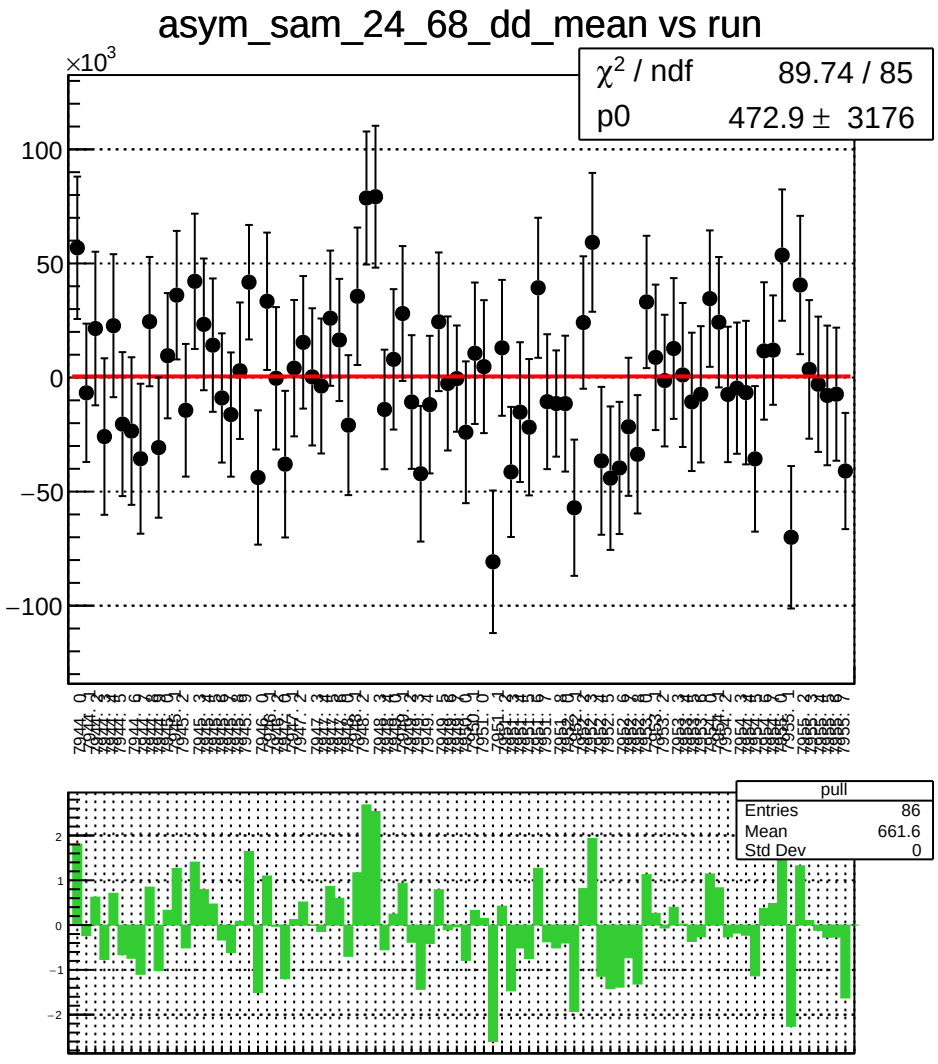

pull1D
Entries 86
Mean 0.0003113
Std Dev 0.9657

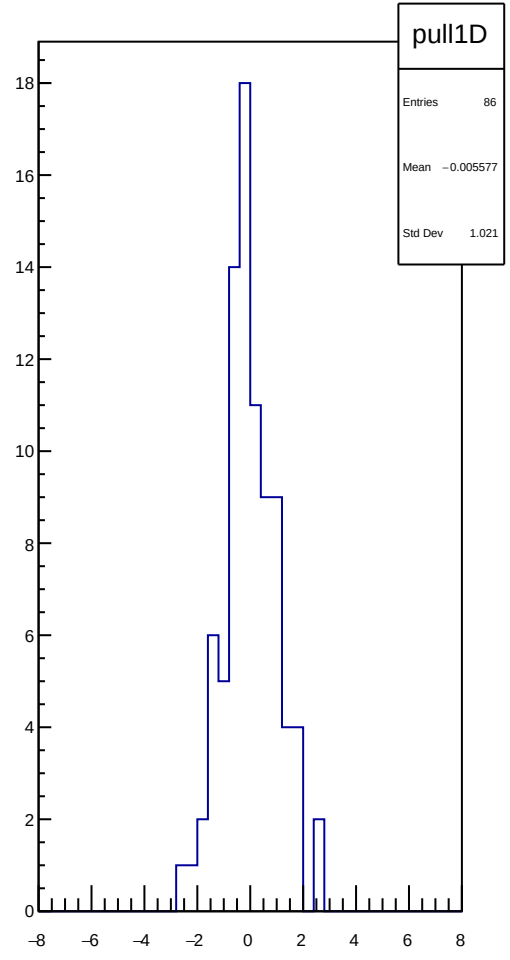

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 2.989e+04 / 85
p0 138 ± 0.1095
320
300
280
260
240
220
200
180
160
140
120

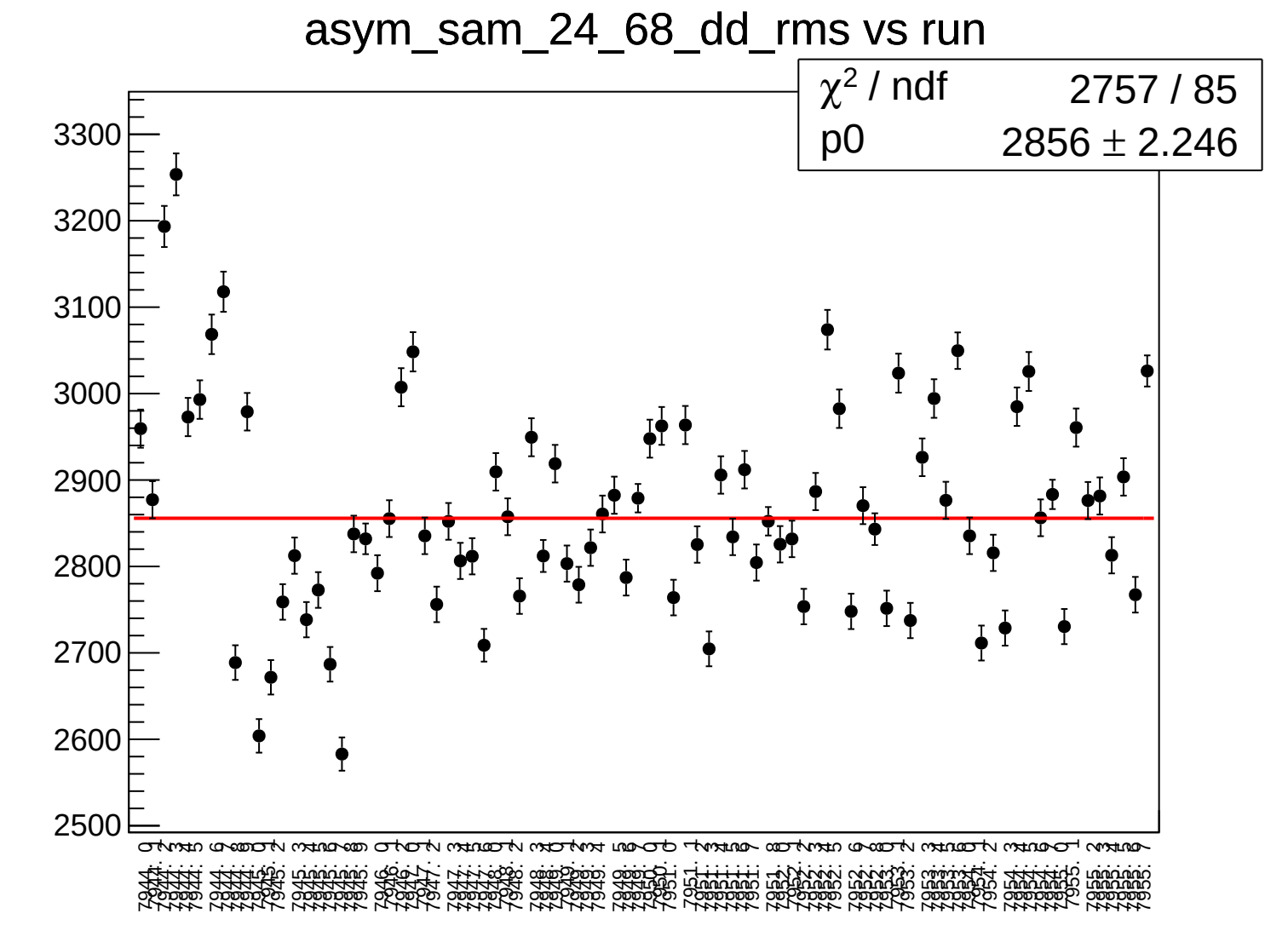

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.38 / 85
p0 −458.2 ± 3208
100
50
0
−50
−100
pull
Entries 86
Mean 698.4
Std Dev 0
2
1
0
−1
−2

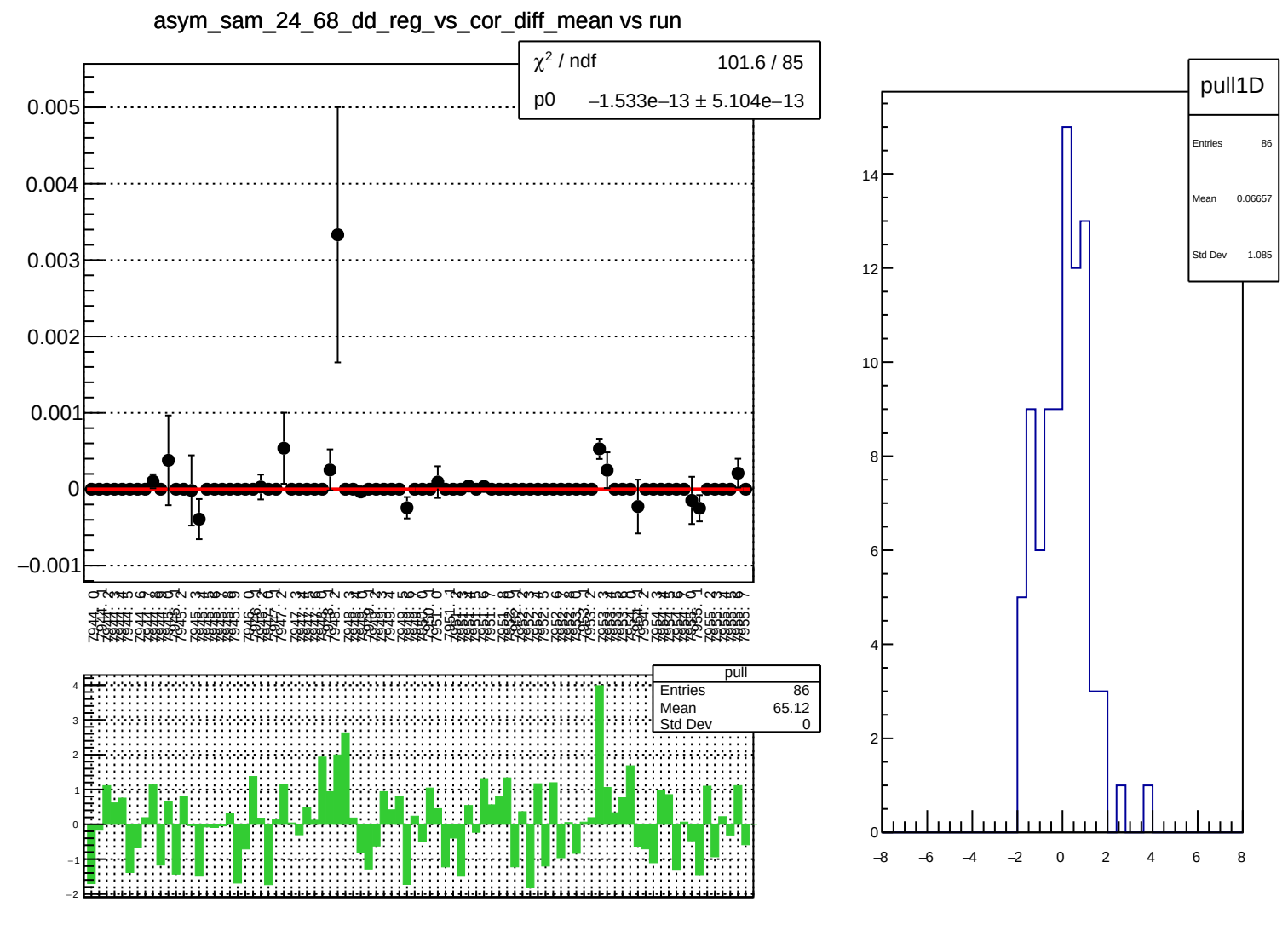

pull1D
Entries 86
Mean 0.005477
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

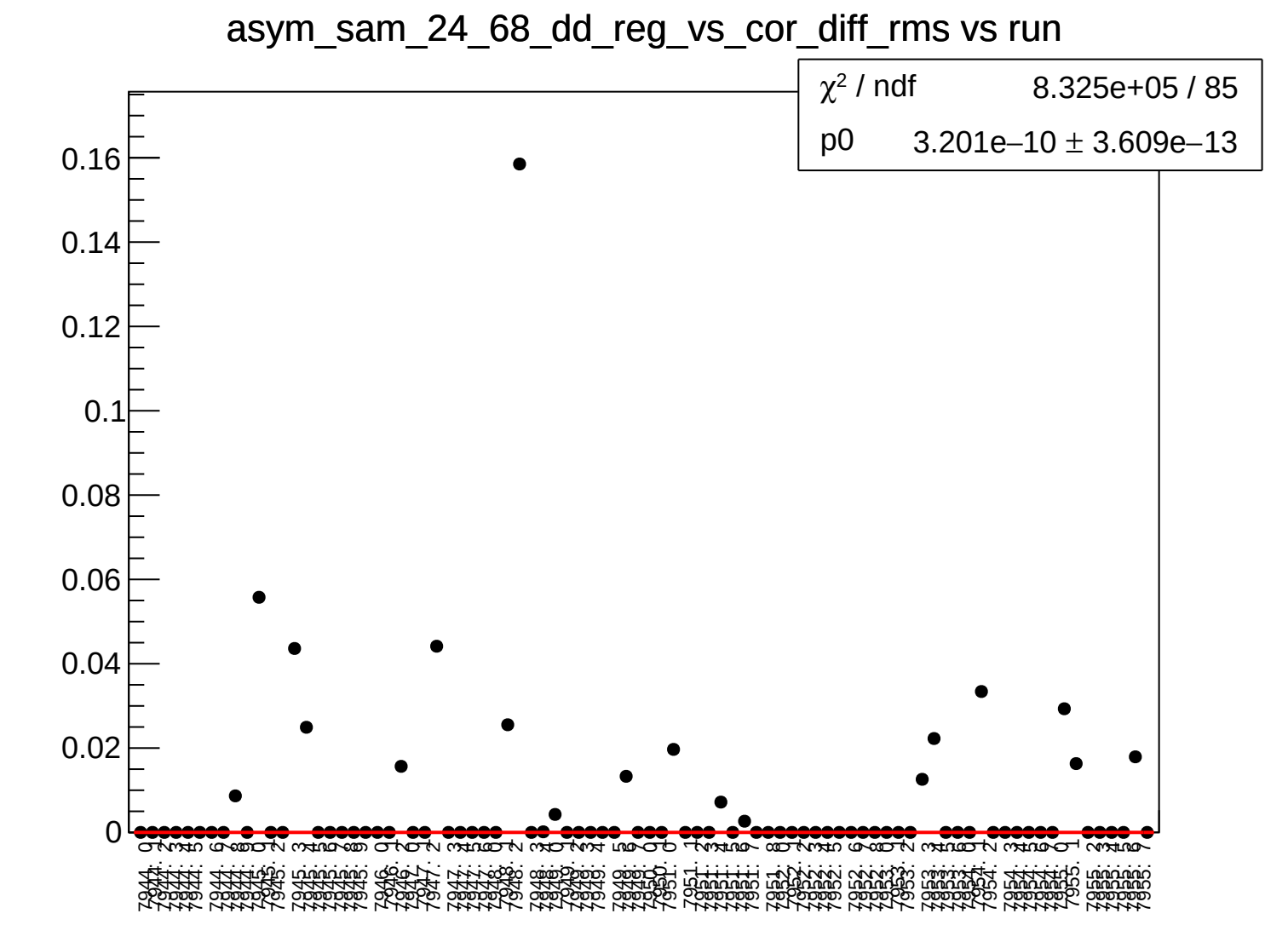

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2562 / 85
p0 2884 ± 2.268
3300
3200
3100
3000
2900
2800
2700
2600

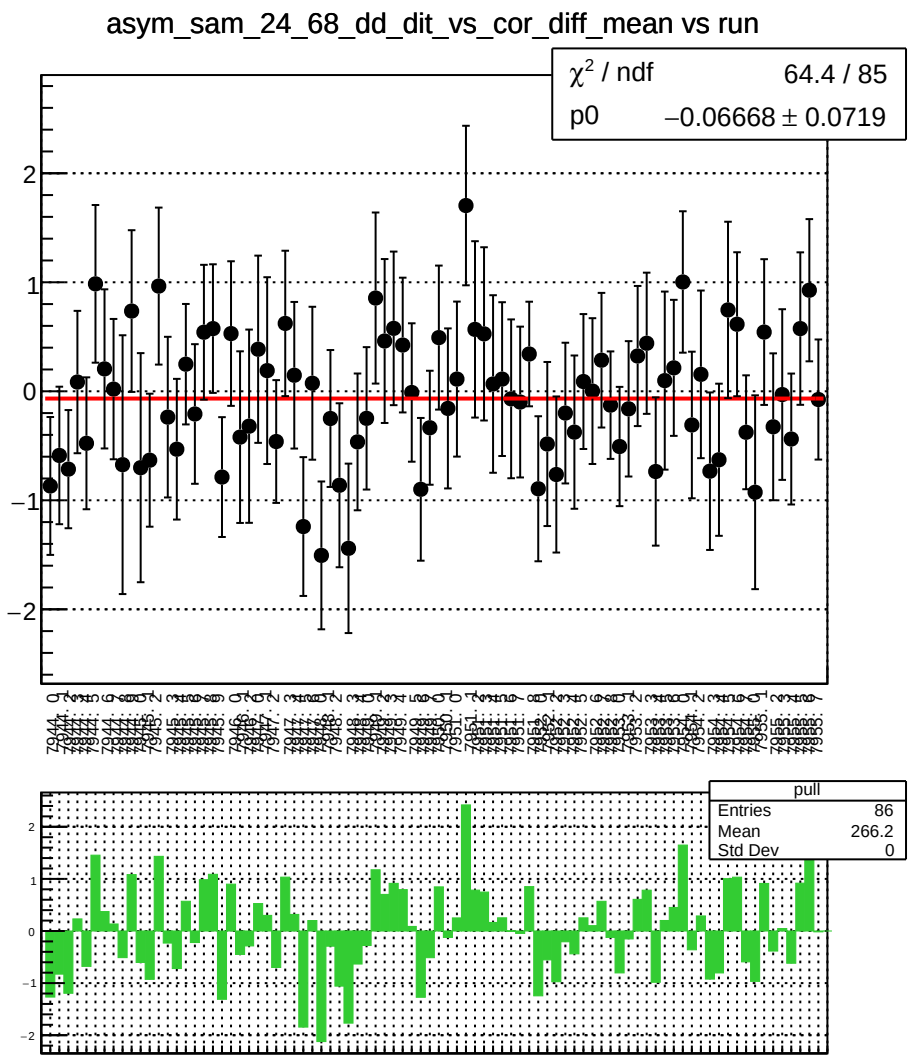

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 89.74 / 85
p0 472.9 ± 3176
100
50
0
−50
−100
pull
Entries 86
Mean 661.6
Std Dev 0
2
1
0
−1
−2

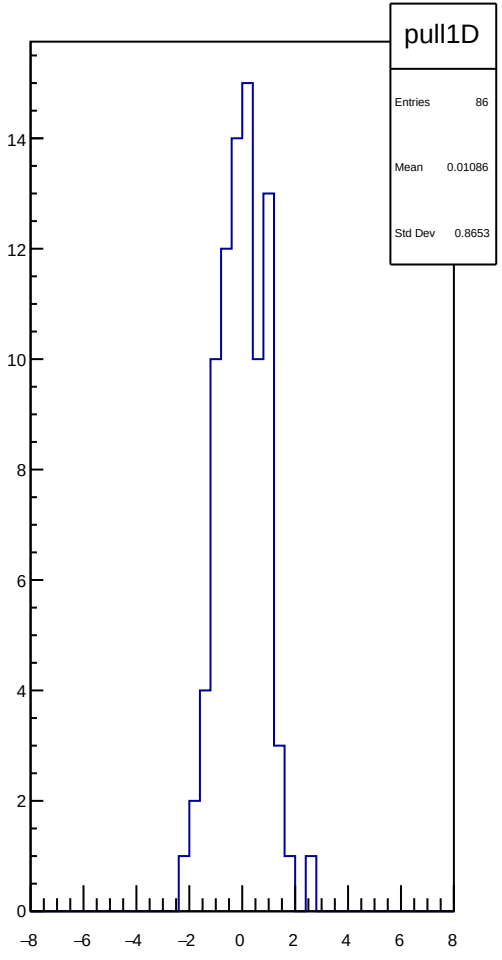

pull1D
Entries 86
Mean −0.005577
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

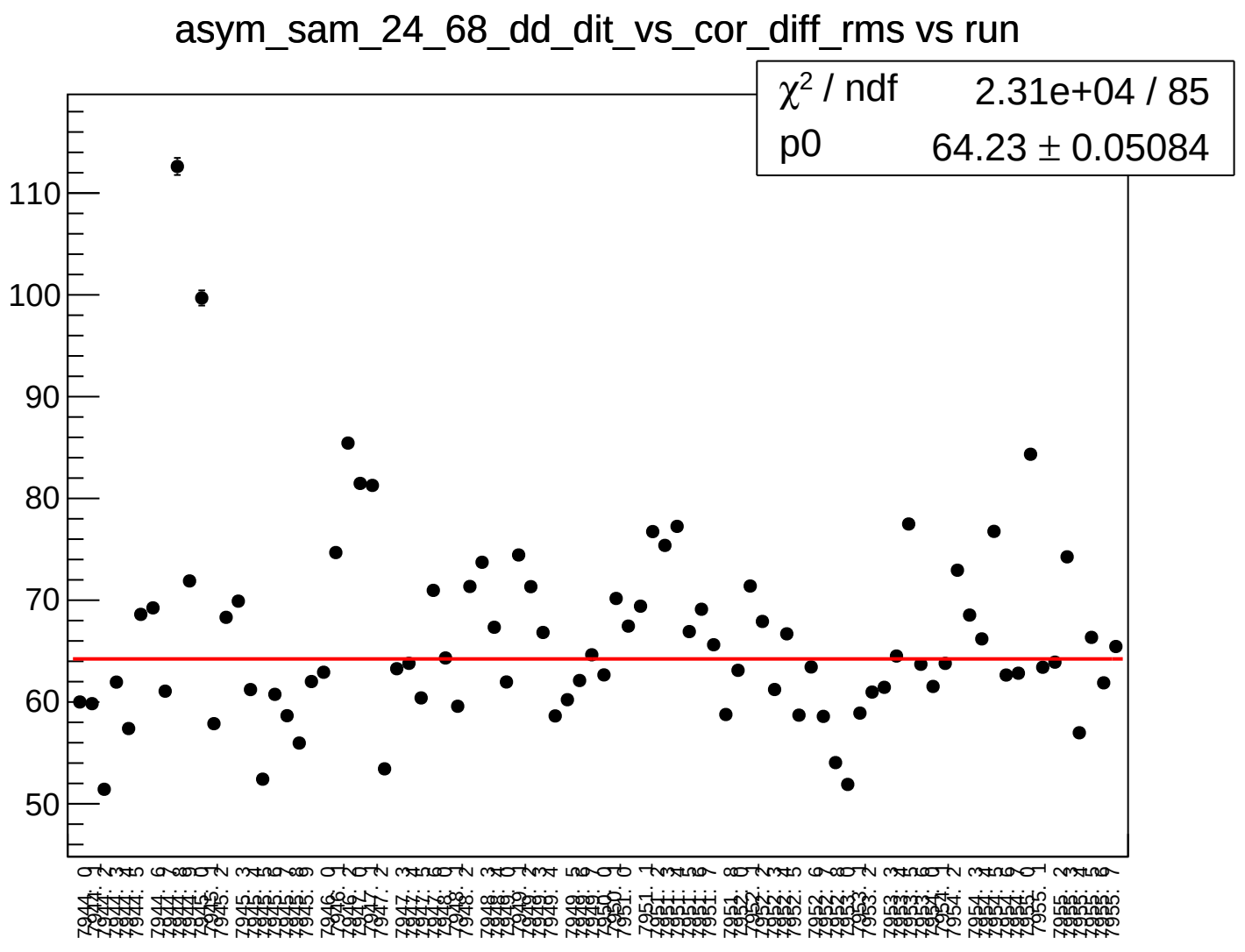

asym_sam_24_68_dd_rms vs run
χ² / ndf 2757 / 85
p0 2856 ± 2.246
3300
3200
3100
3000
2900
2800
2700
2600
2500

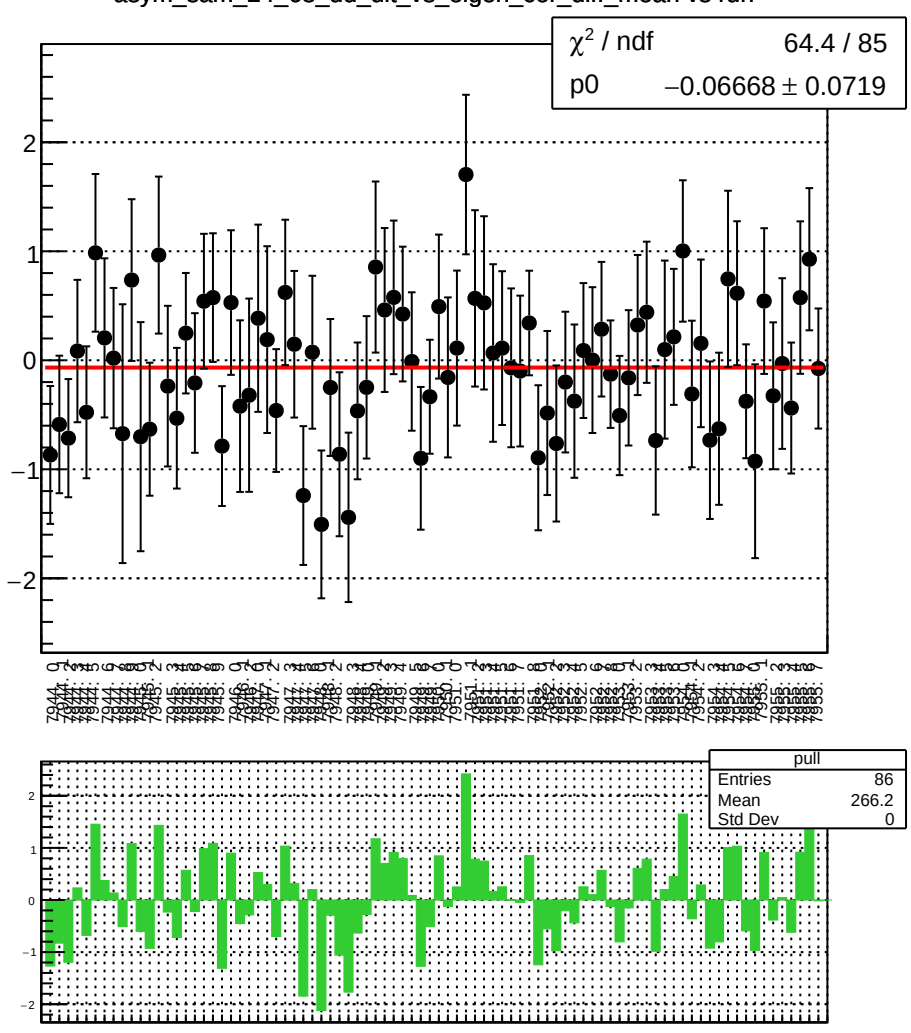

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 85
p0 −1.533e−13 ± 5.104e−13
0.005
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 86
Mean 65.12
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.06657
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

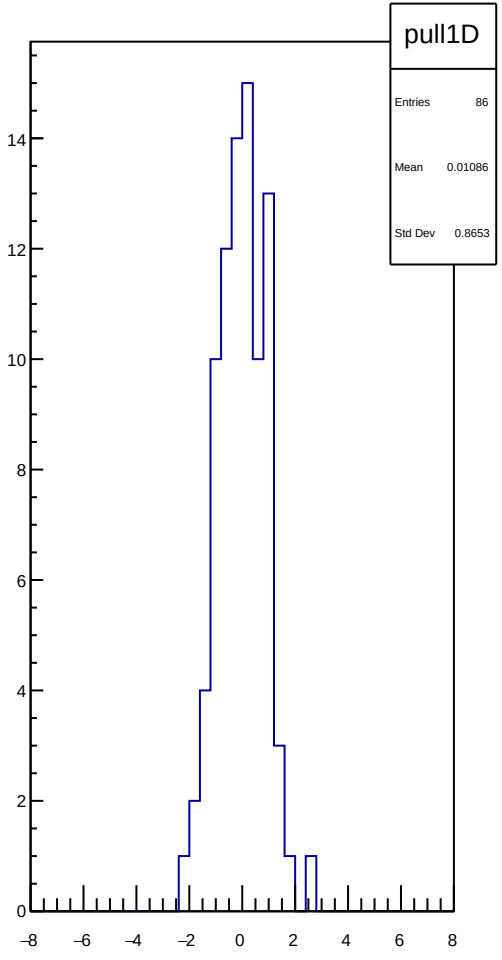

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.325e+05 / 85
p0 3.201e−10 ± 3.609e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

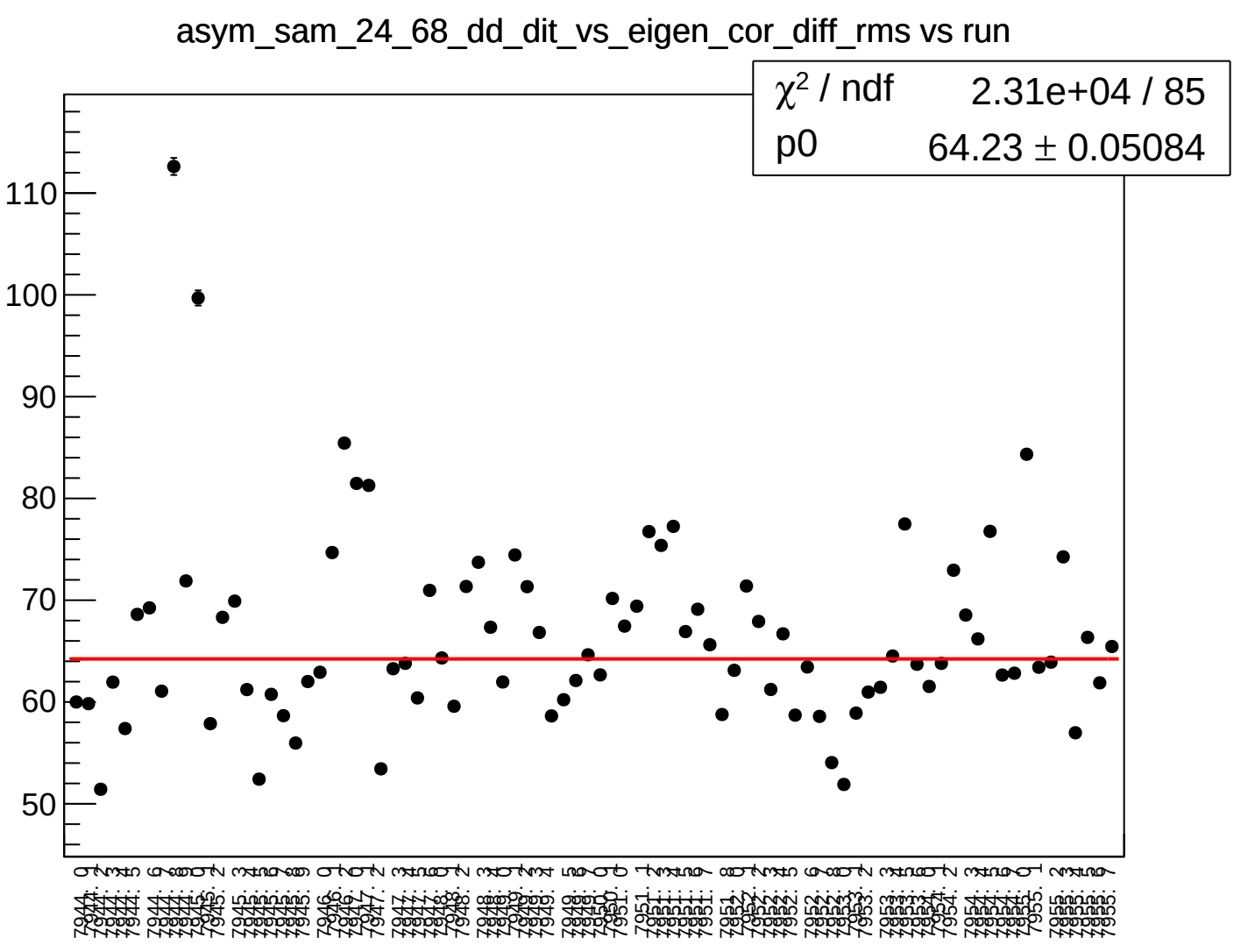

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.4 / 85
p0 −0.06668 ± 0.0719
pull
Entries 86
Mean 266.2
Std Dev 0

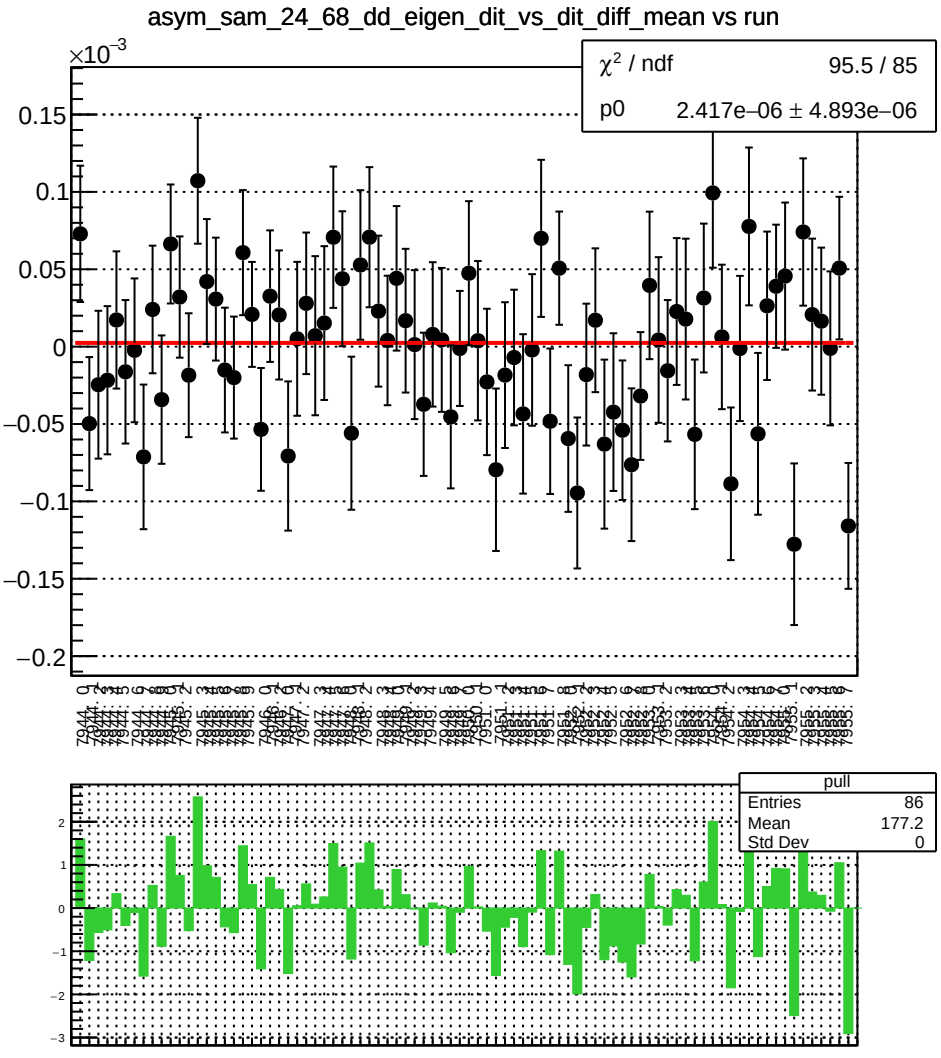

pull1D
Entries 86
Mean 0.01086
Std Dev 0.8653

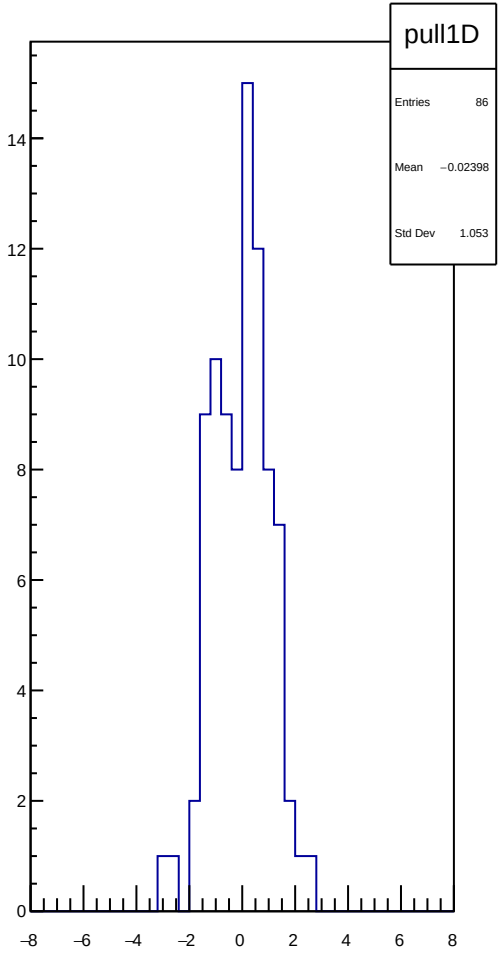

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.31e+04 / 85
p0 64.23 ± 0.05084
110
100
90
80
70
60
50

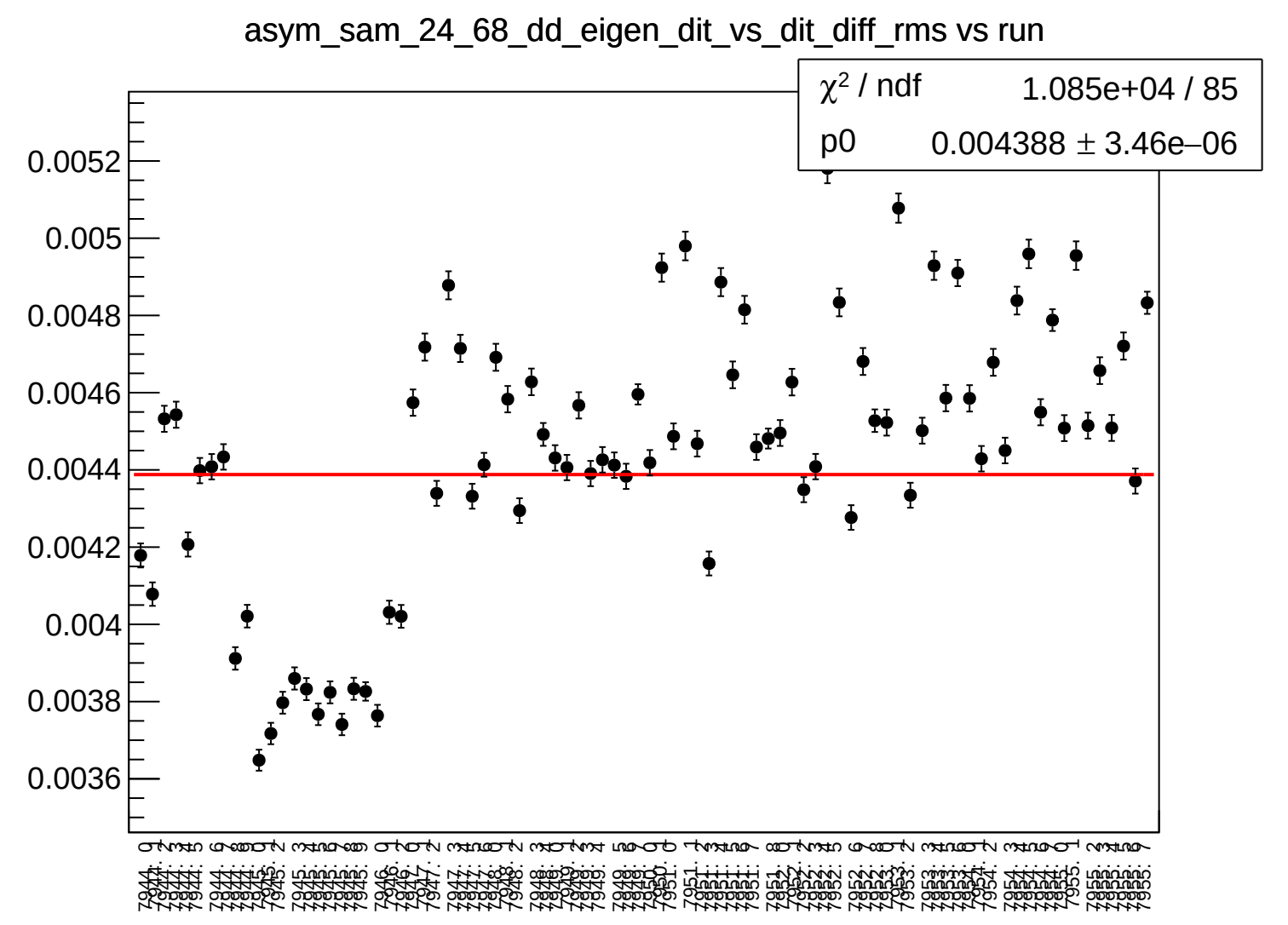

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.4 / 85
p0 −0.06668 ± 0.0719
pull
Entries 86
Mean 266.2
Std Dev 0

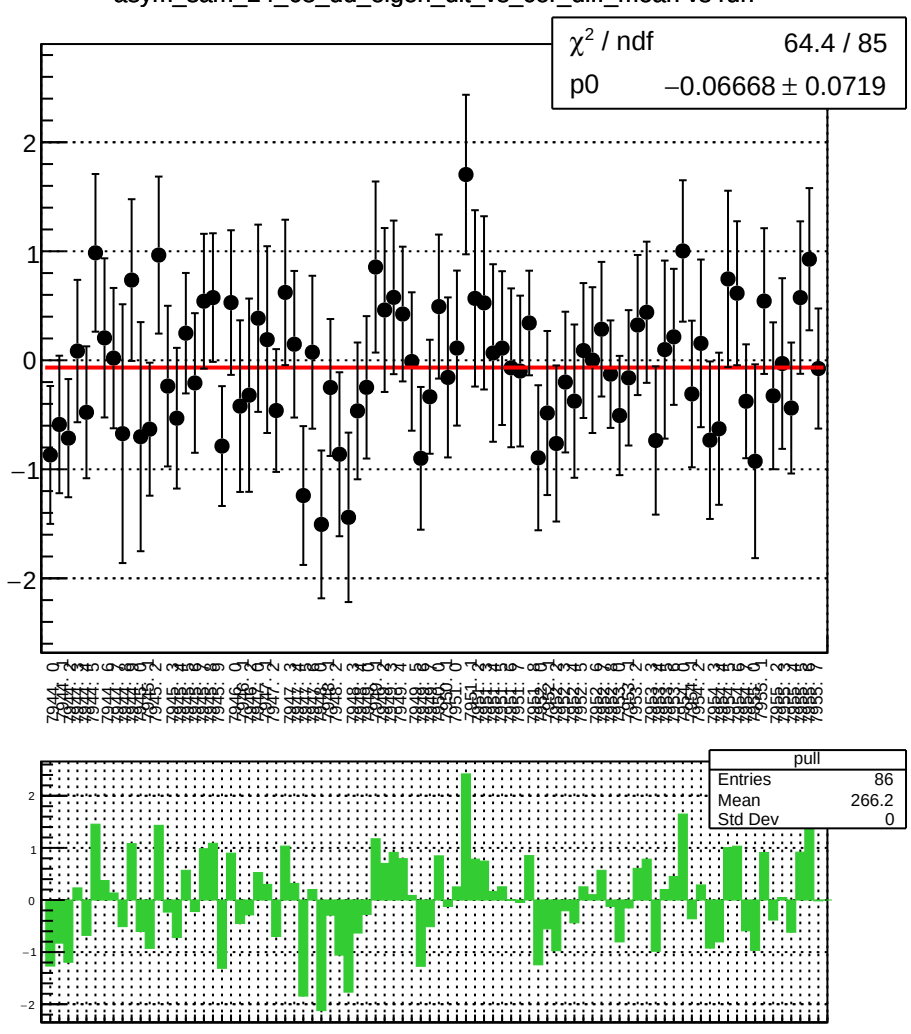

pull1D
Entries 86
Mean 0.01086
Std Dev 0.8653

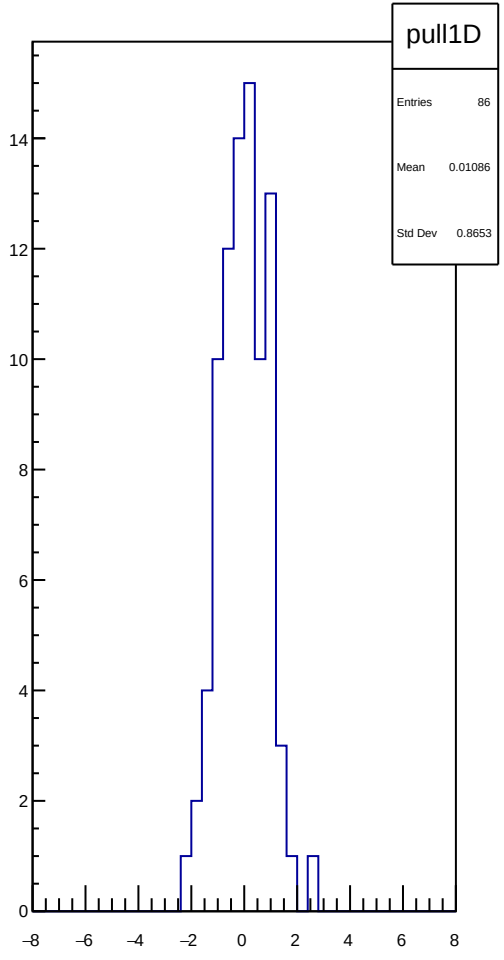

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.31e+04 / 85
p0 64.23 ± 0.05084
110
100
90
80
70
60
50

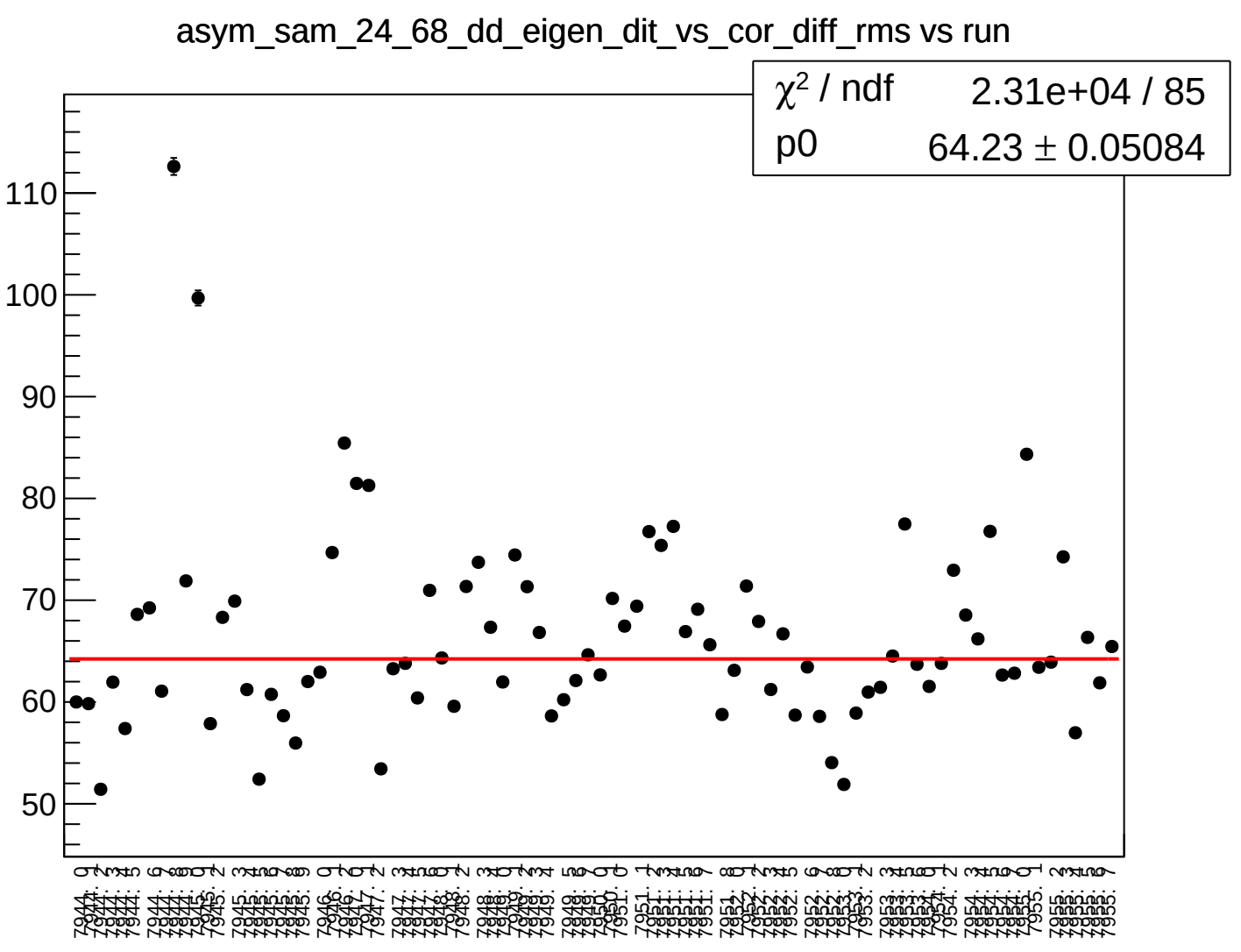

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.5 / 85
p0 2.417e−06 ± 4.893e−06
pull
Entries 86
Mean 177.2
Std Dev 0


pull1D
Entries 86
Mean −0.02398
Std Dev 1.053

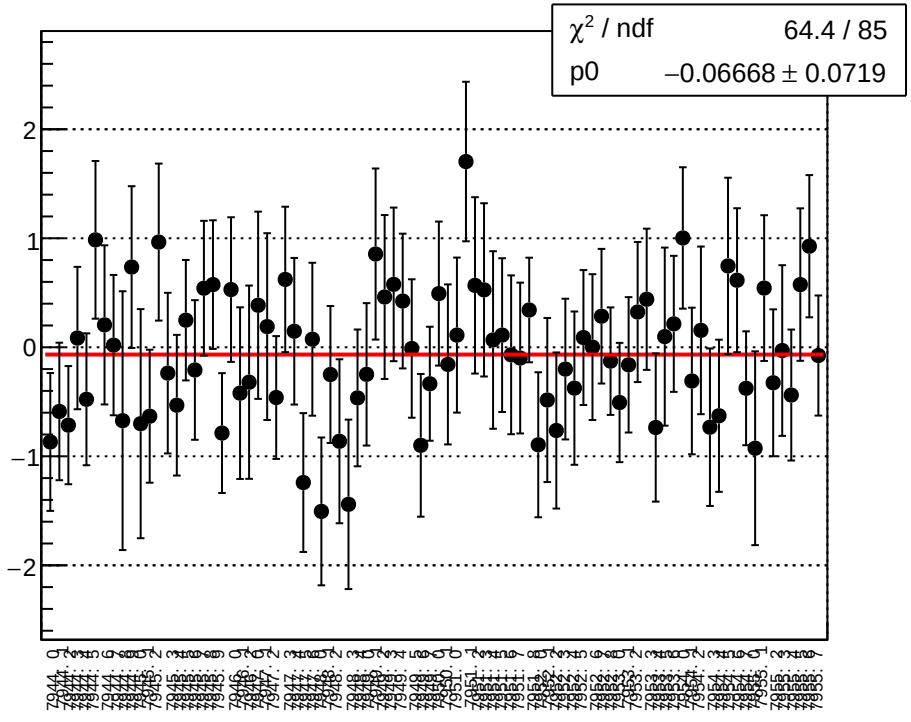

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.085e+04 / 85
p0 0.004388 ± 3.46e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

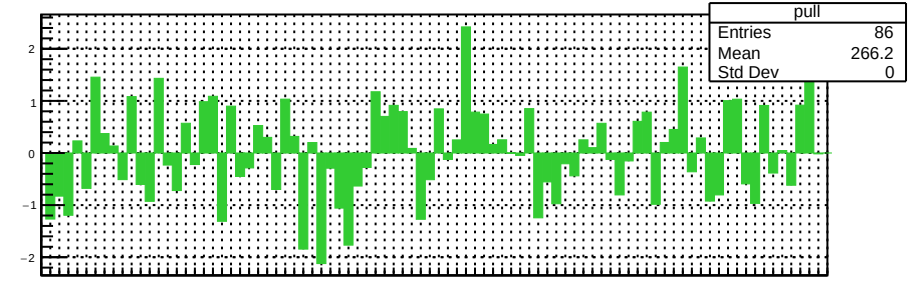

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.4 / 85
p0 −0.06668 ± 0.0719
pull
Entries 86
Mean 266.2
Std Dev 0

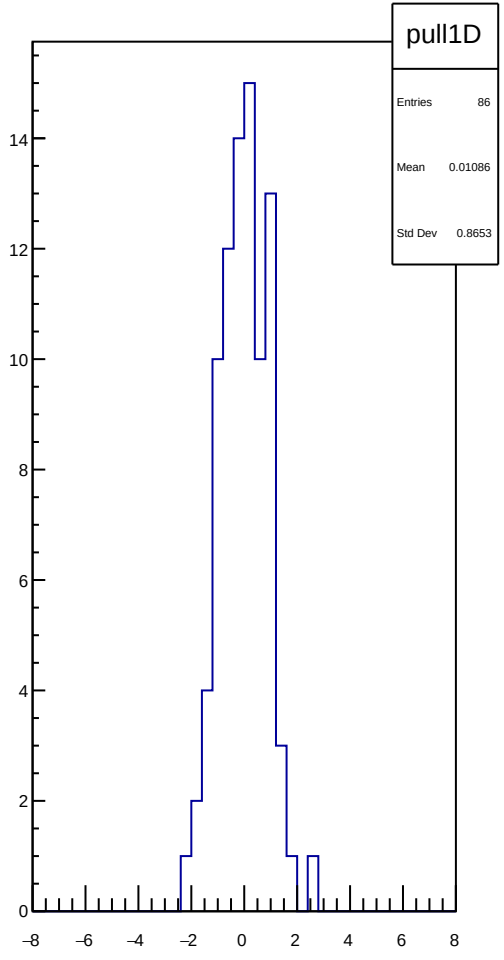

pull1D
Entries 86
Mean 0.01086
Std Dev 0.8653

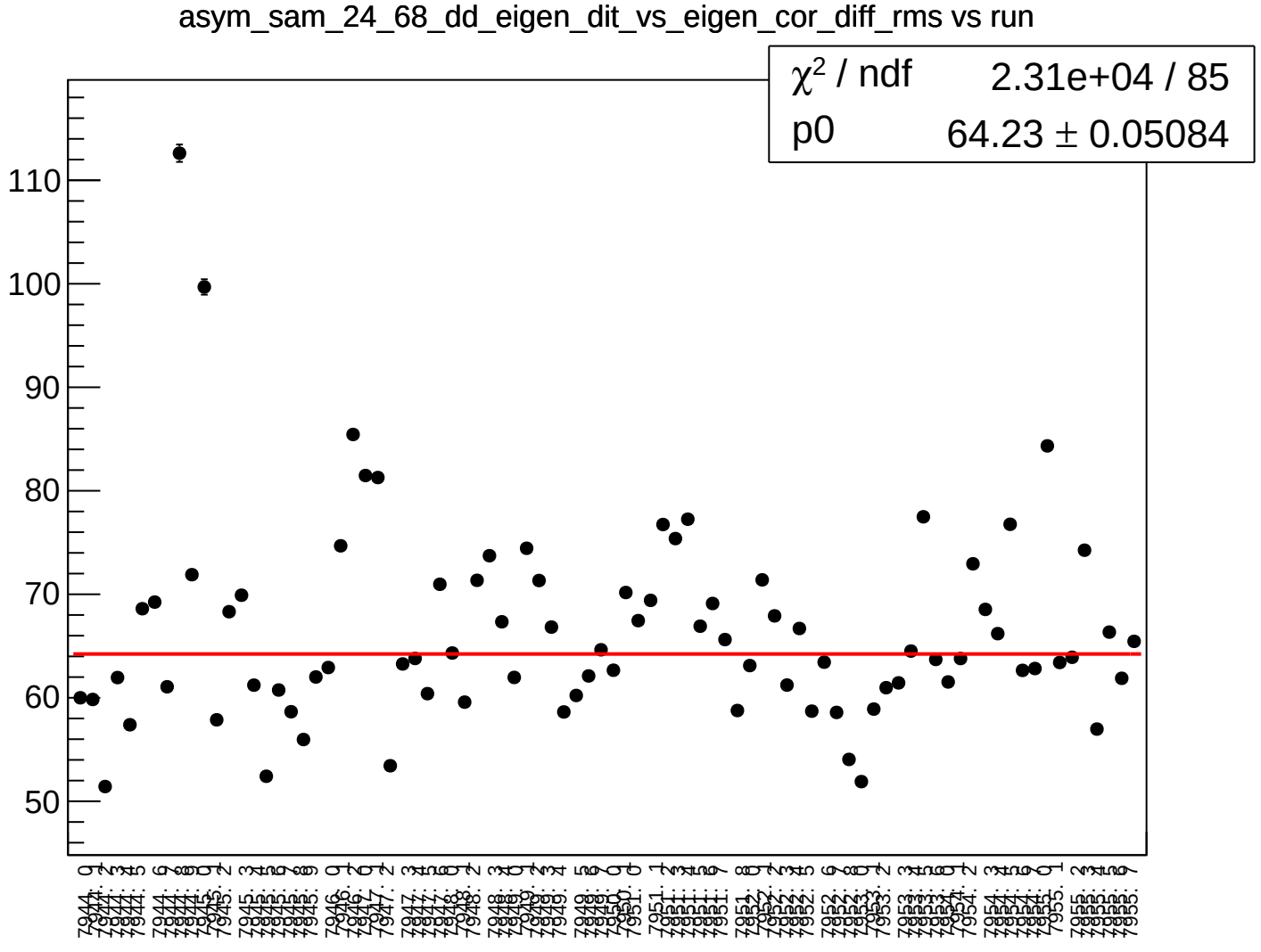

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.31e+04 / 85
p0 64.23 ± 0.05084
110
100
90
80
70
60
50

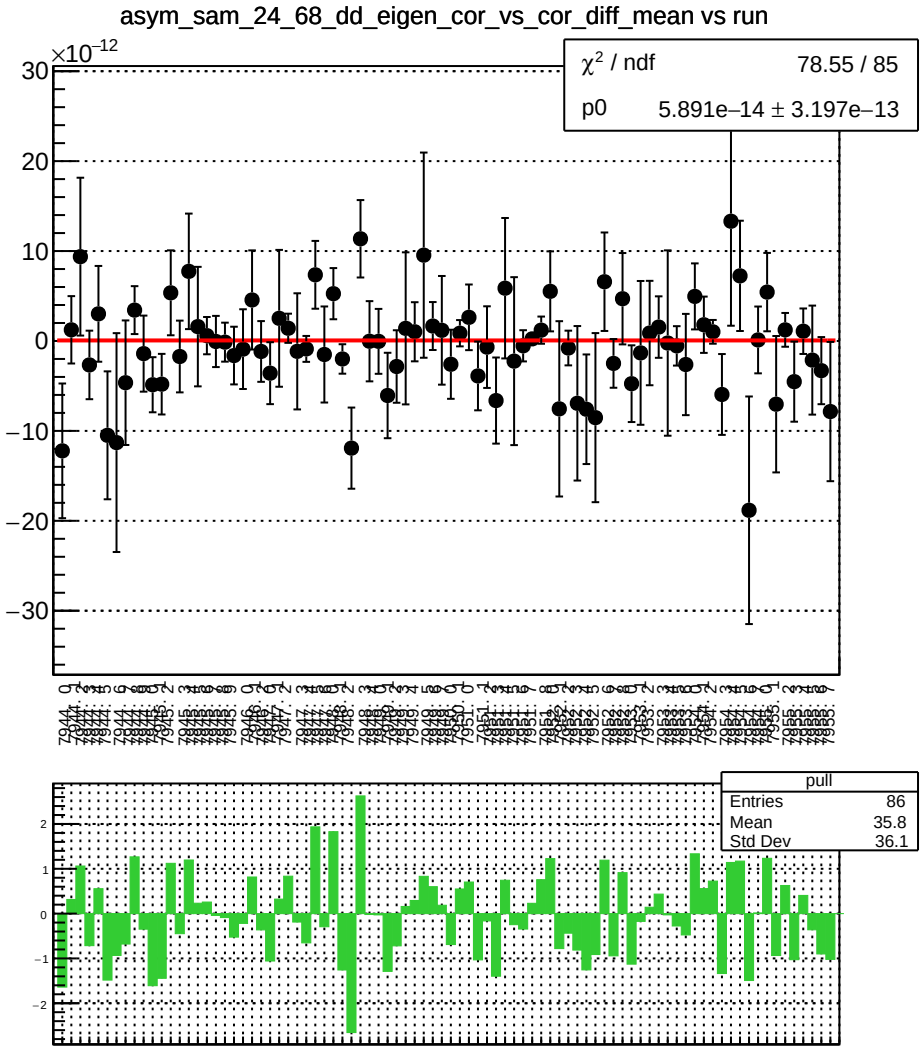
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

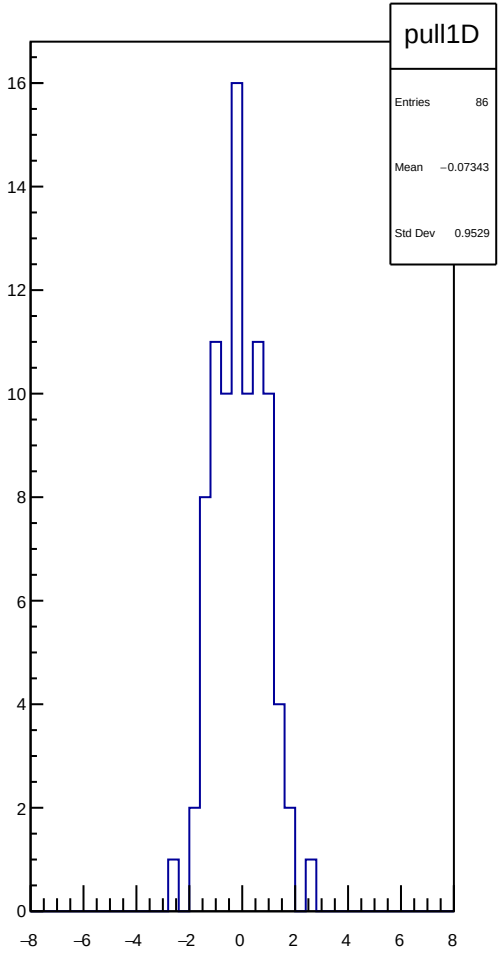


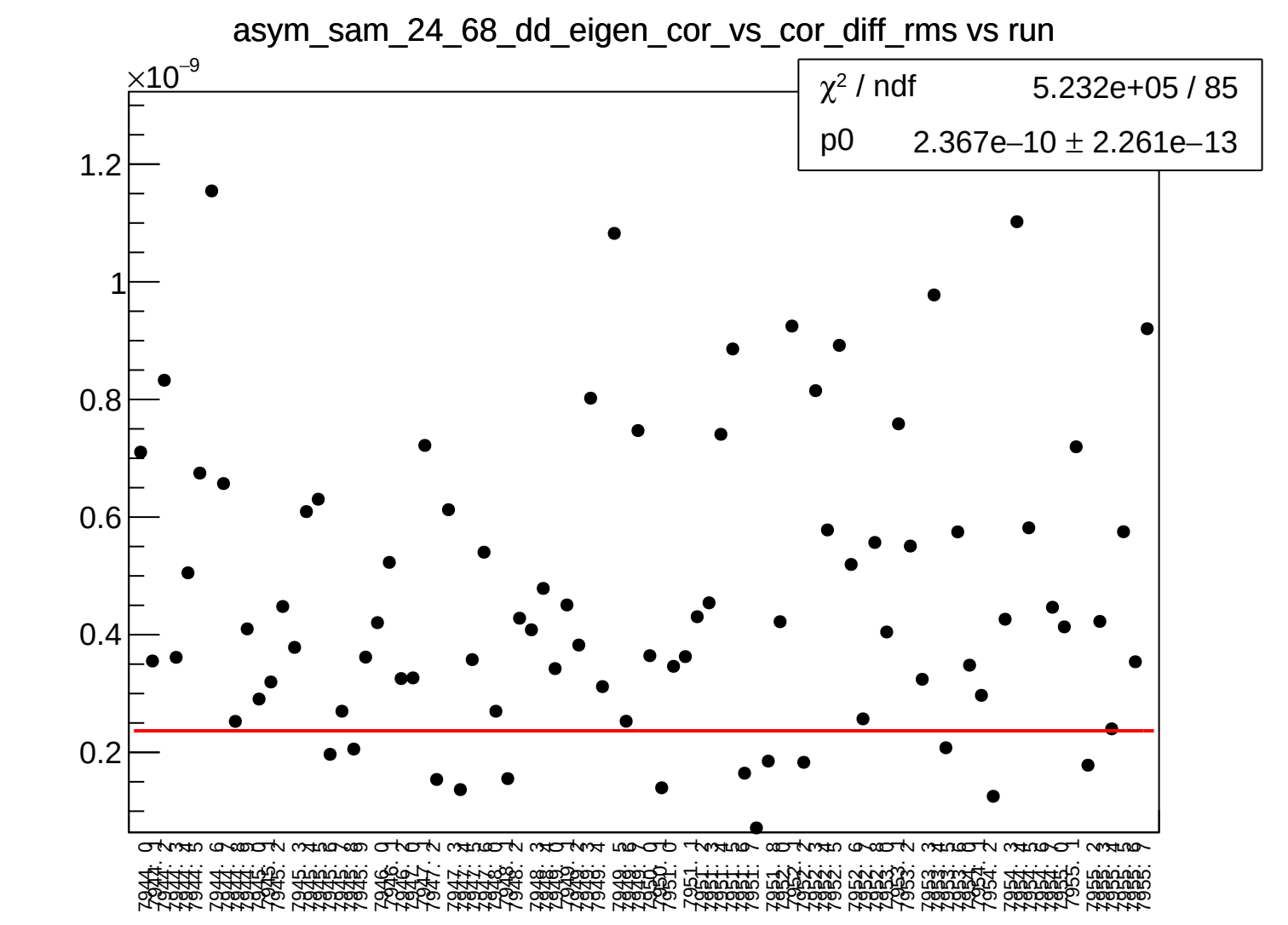


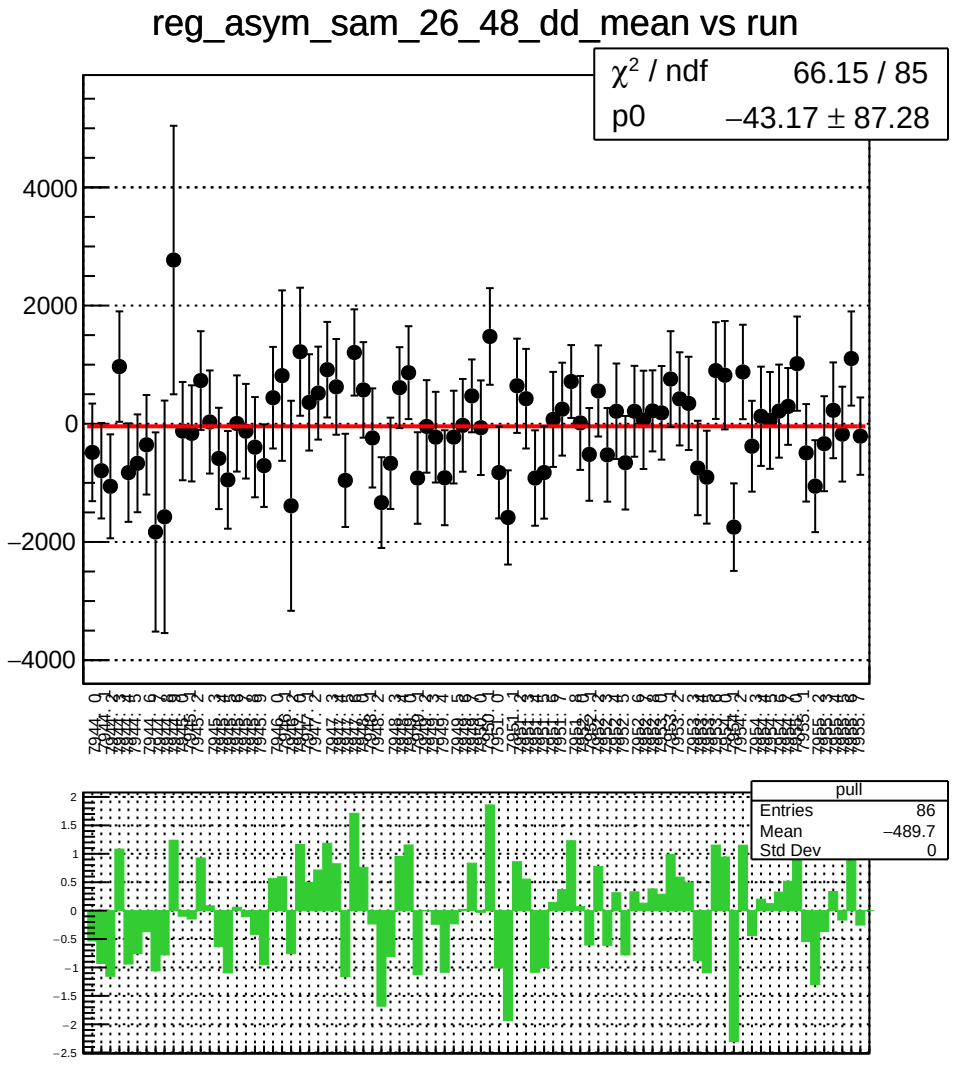


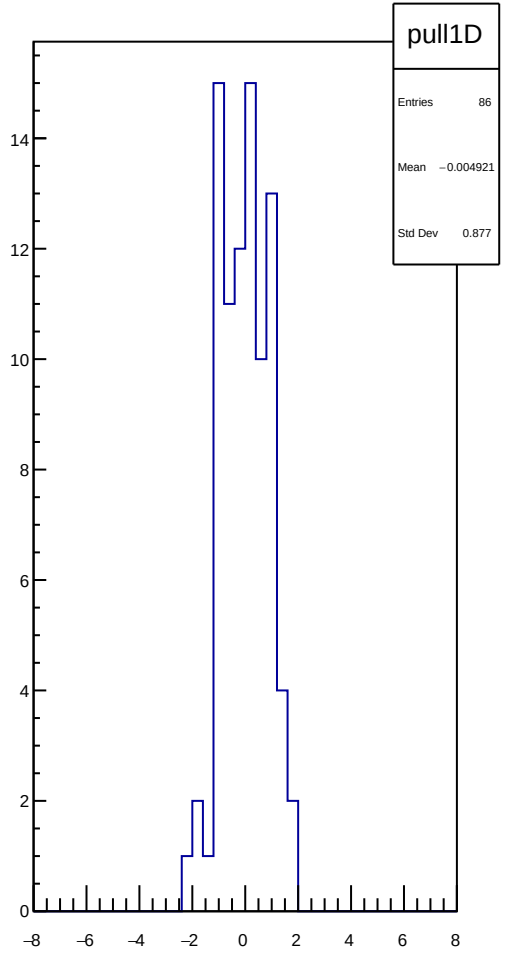

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.31e+04 / 85
p0 64.23 ± 0.05084
110
100
90
80
70
60
50

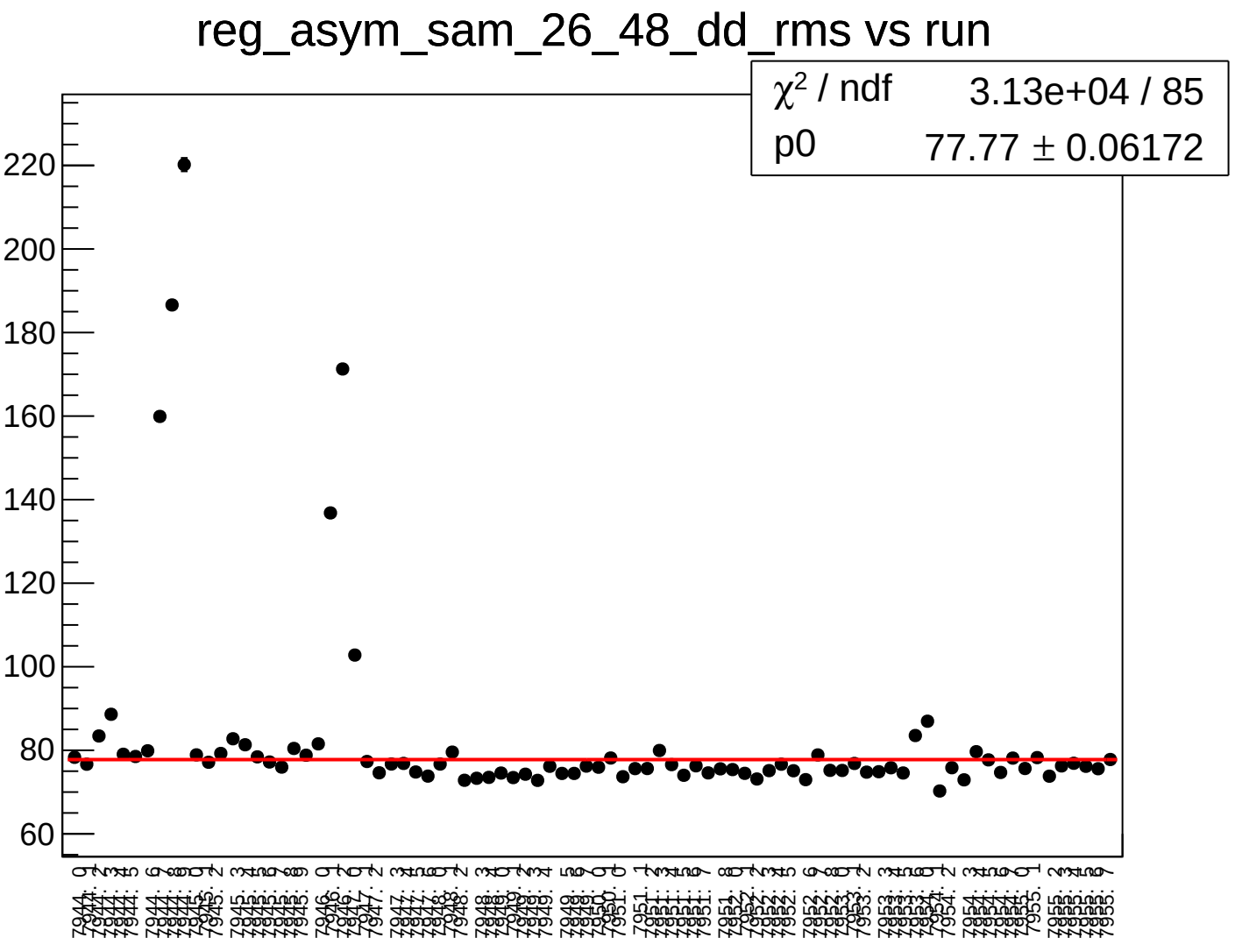

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.55 / 85
p0 5.891e−14 ± 3.197e−13
pull
Entries 86
Mean 35.8
Std Dev 36.1

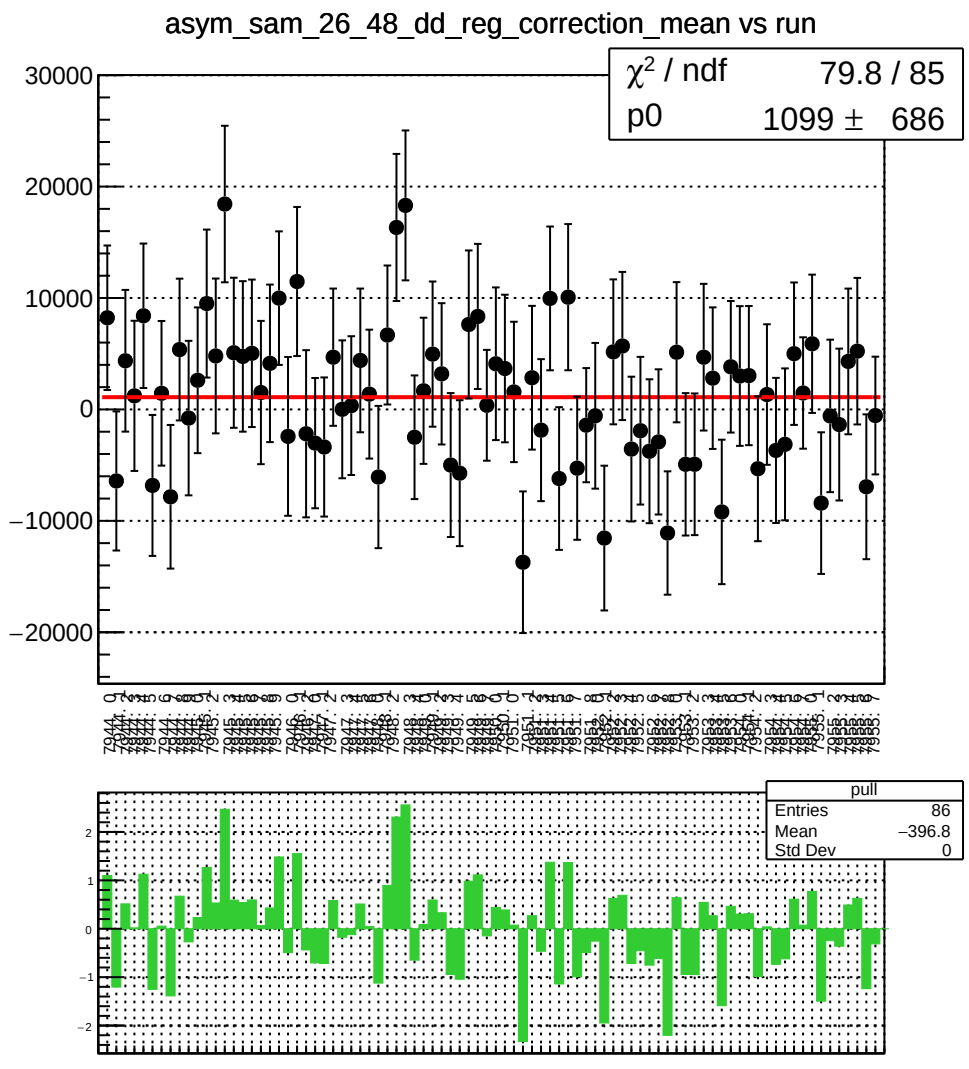

pull1D
Entries 86
Mean −0.07343
Std Dev 0.9529

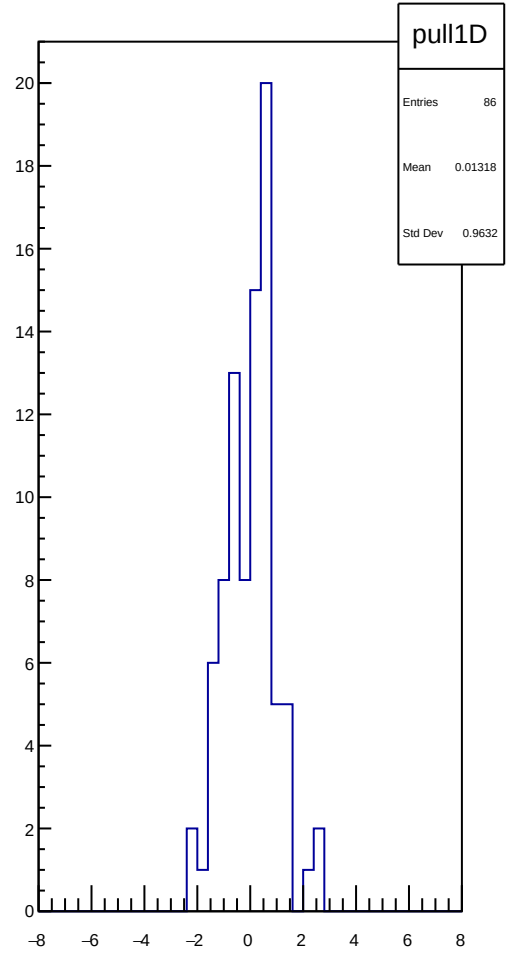

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.232e+05 / 85
p0 2.367e−10 ± 2.261e−13
1.2
1
0.8
0.6
0.4
0.2

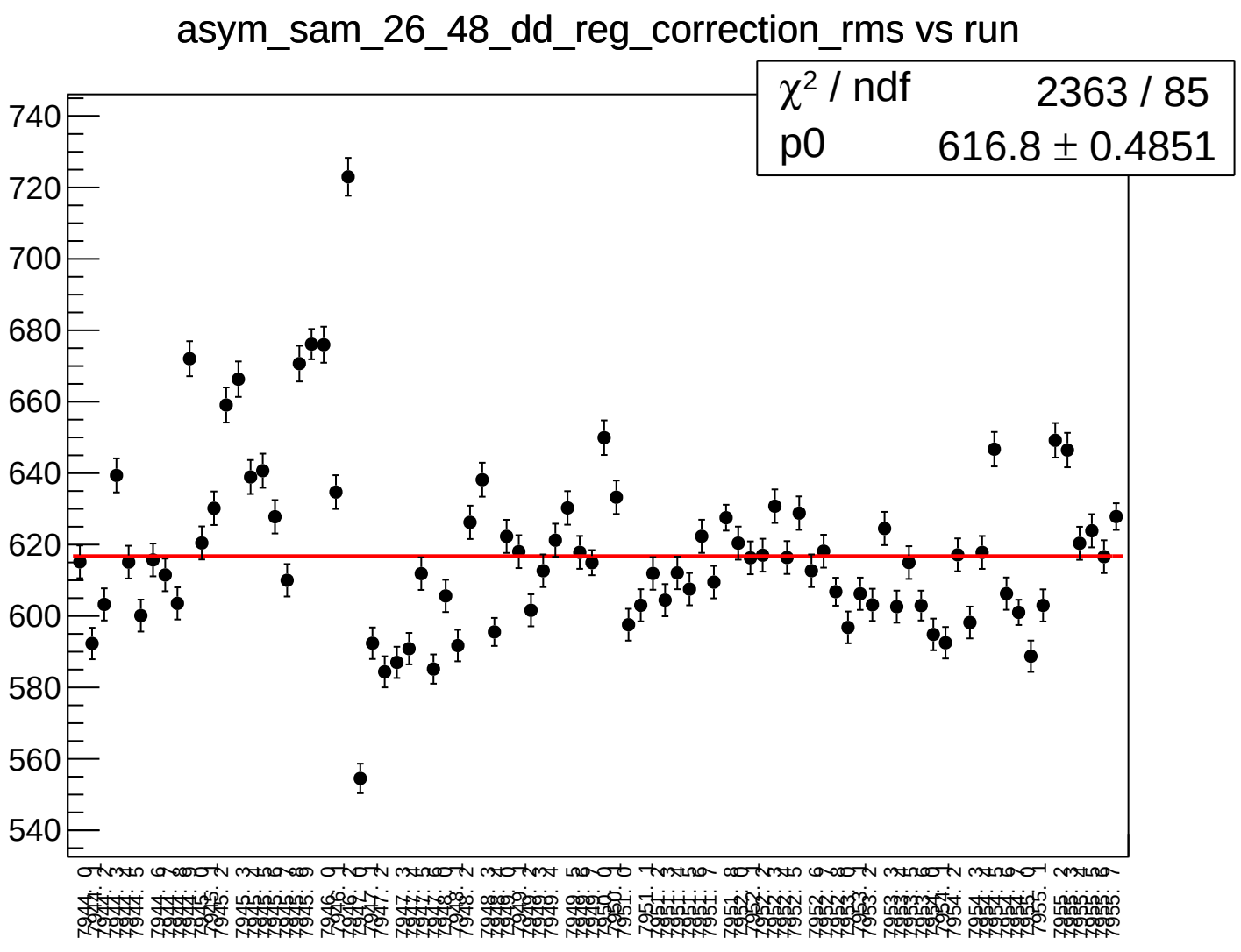

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 66.15 / 85
p0 −43.17 ± 87.28
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −489.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

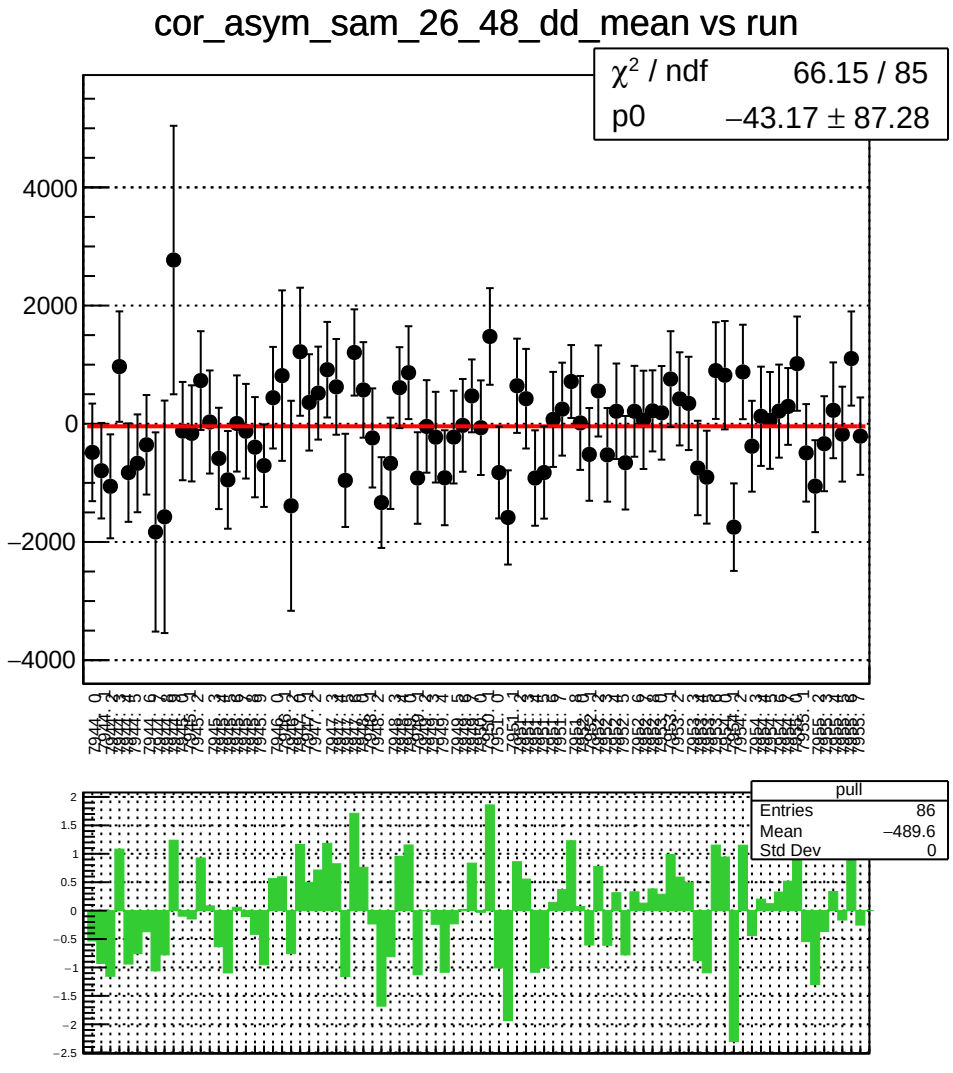

pull1D
Entries 86
Mean −0.004921
Std Dev 0.877
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

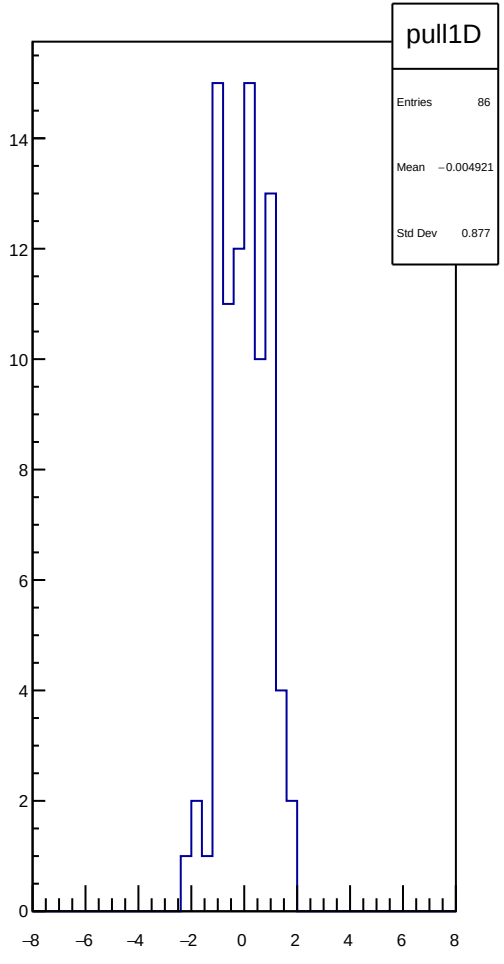

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 3.13e+04 / 85
p0 77.77 ± 0.06172
220
200
180
160
140
120
100
80
60


asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 79.8 / 85
p0 1099 ± 686
pull
Entries 86
Mean −396.8
Std Dev 0

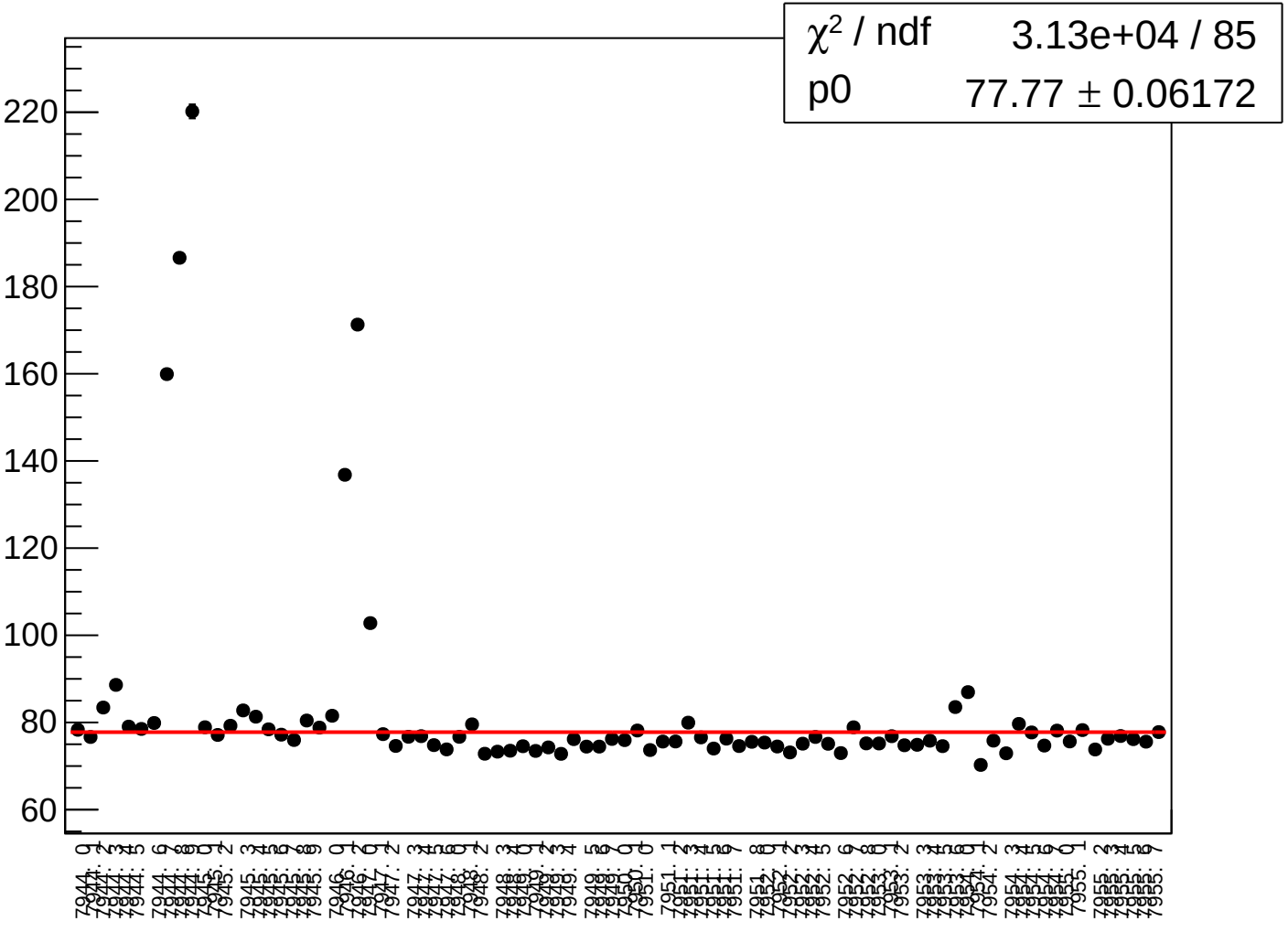

pull1D
Entries 86
Mean 0.01318
Std Dev 0.9632

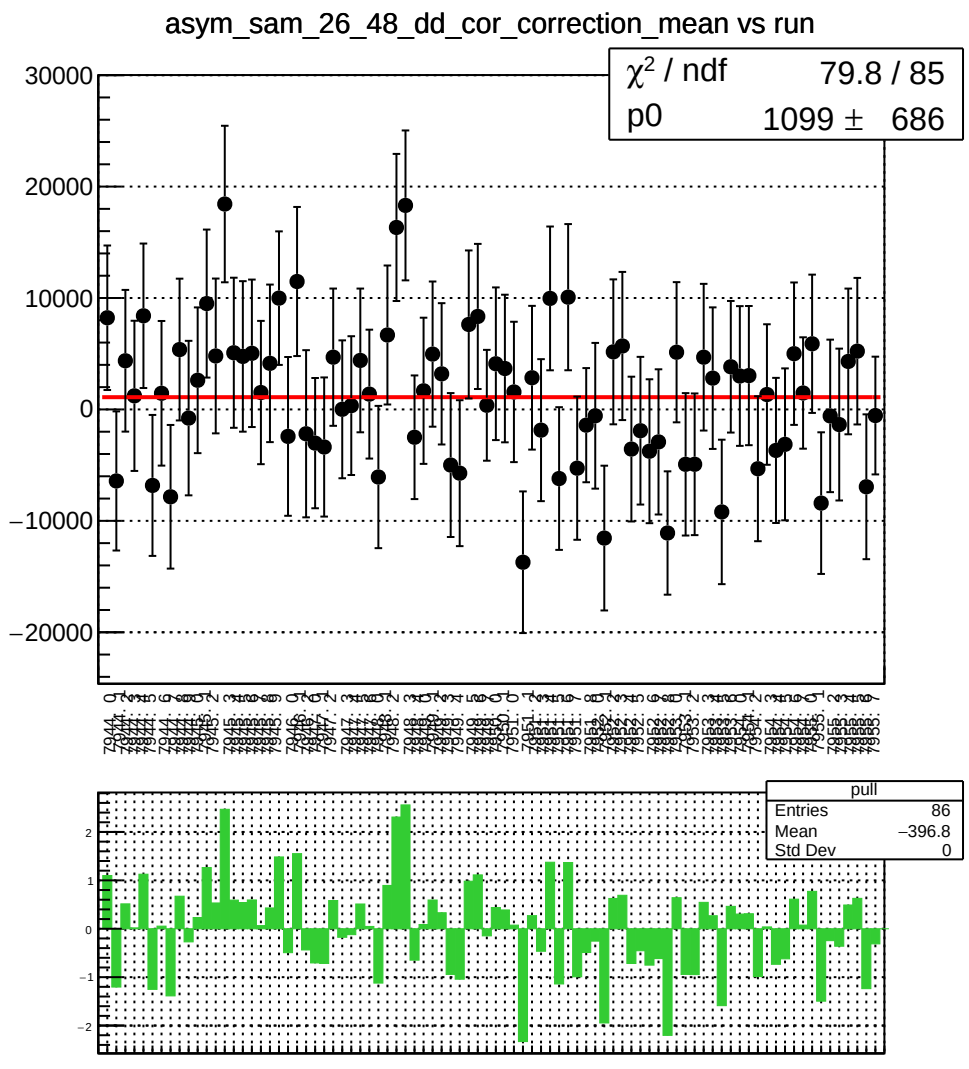

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 2363 / 85
p0 616.8 ± 0.4851
740
720
700
680
660
640
620
600
580
560
540

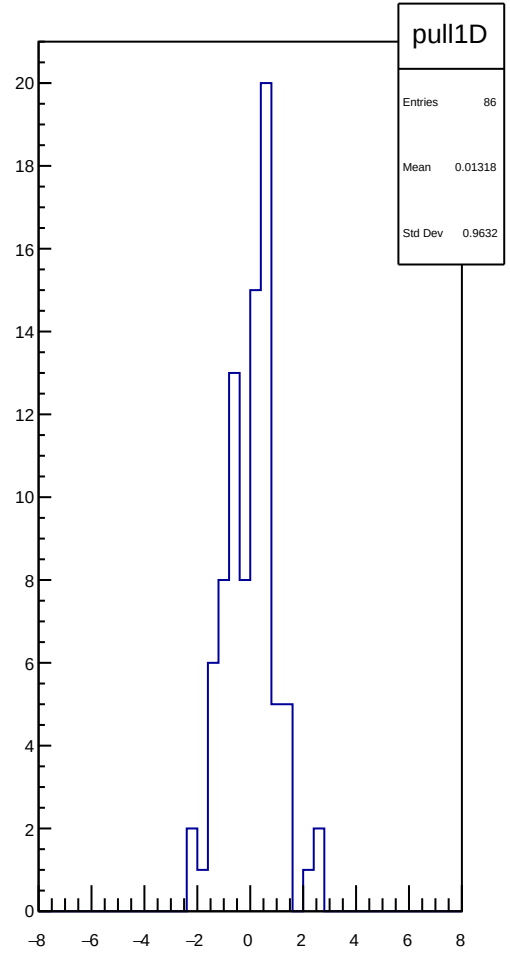

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 66.15 / 85
p0 −43.17 ± 87.28
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −489.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

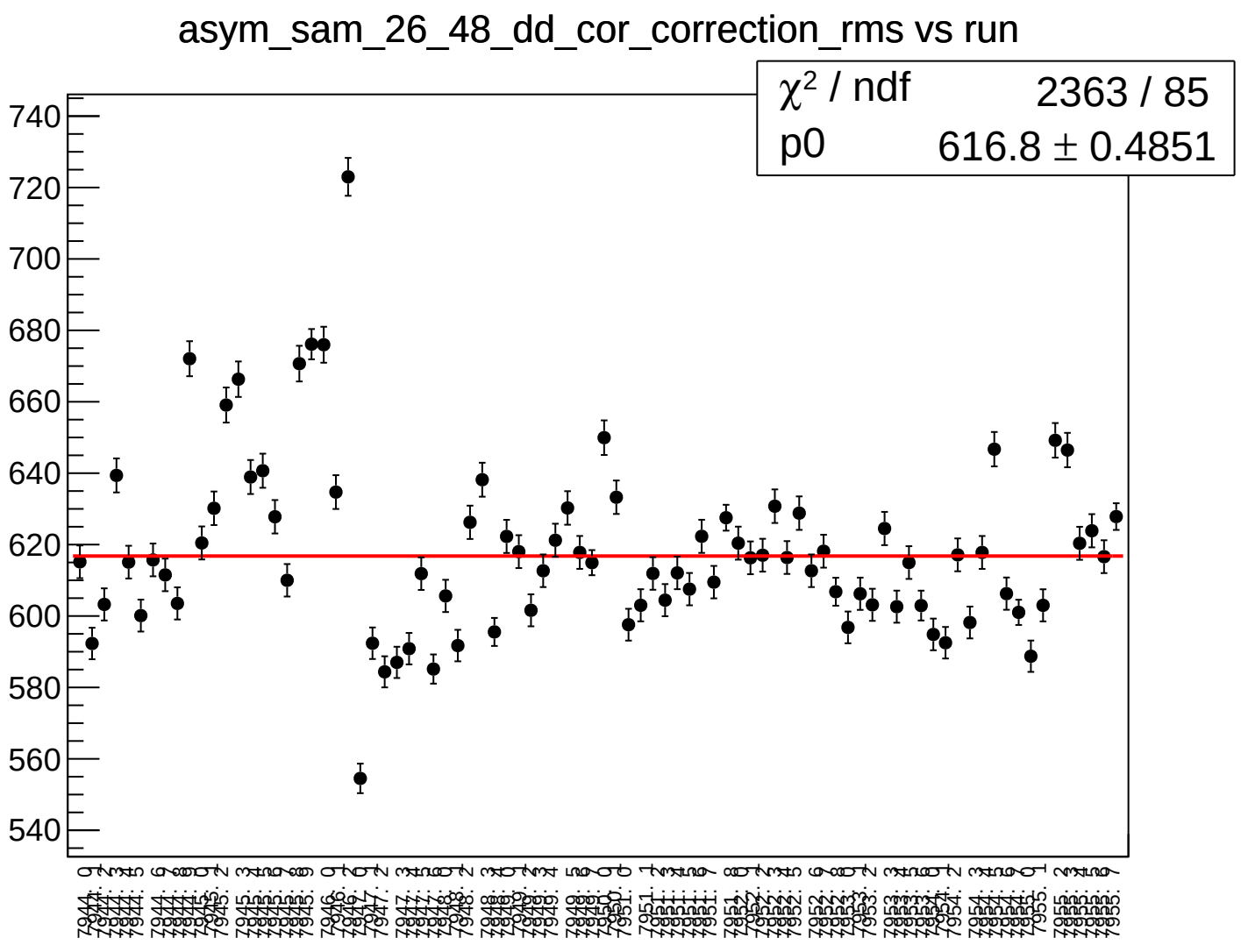

pull1D
Entries 86
Mean −0.004921
Std Dev 0.877
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

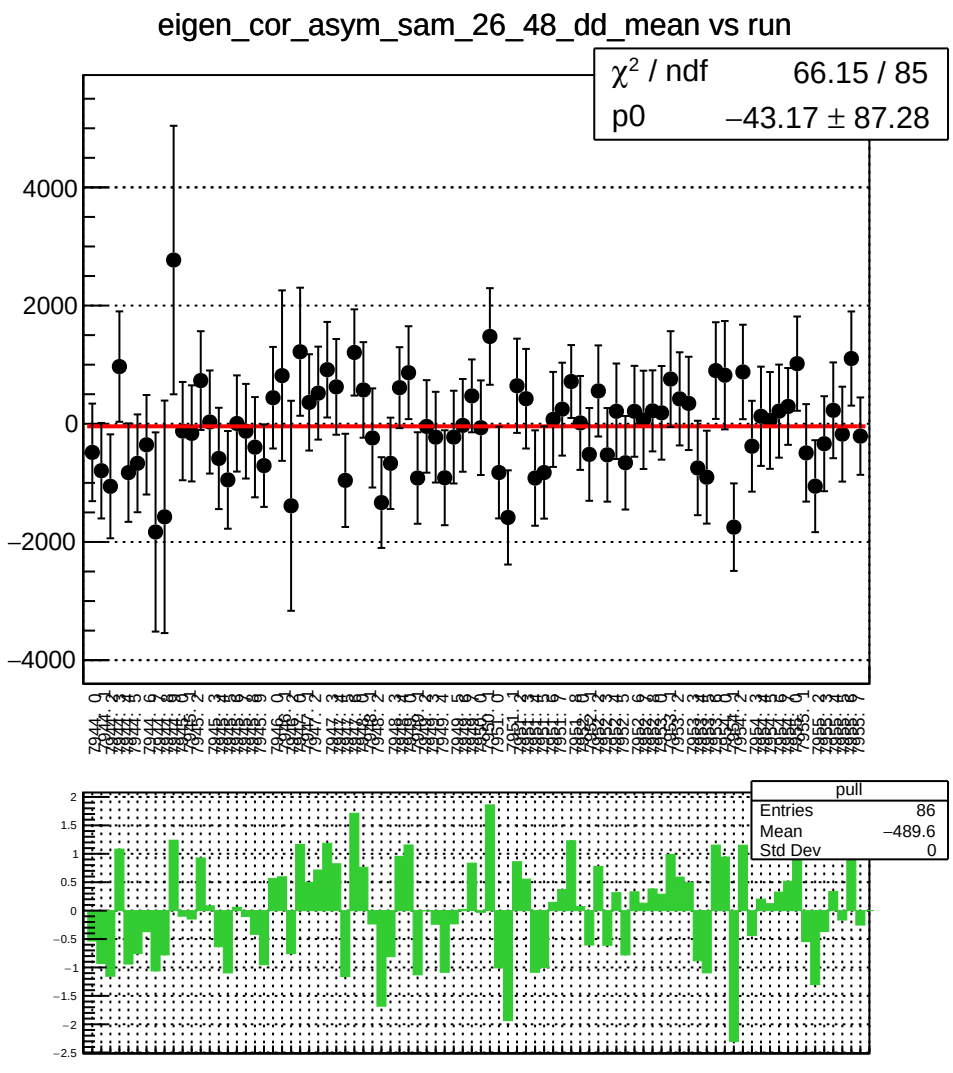
cor_asym_sam_26_48_dd_rms vs run

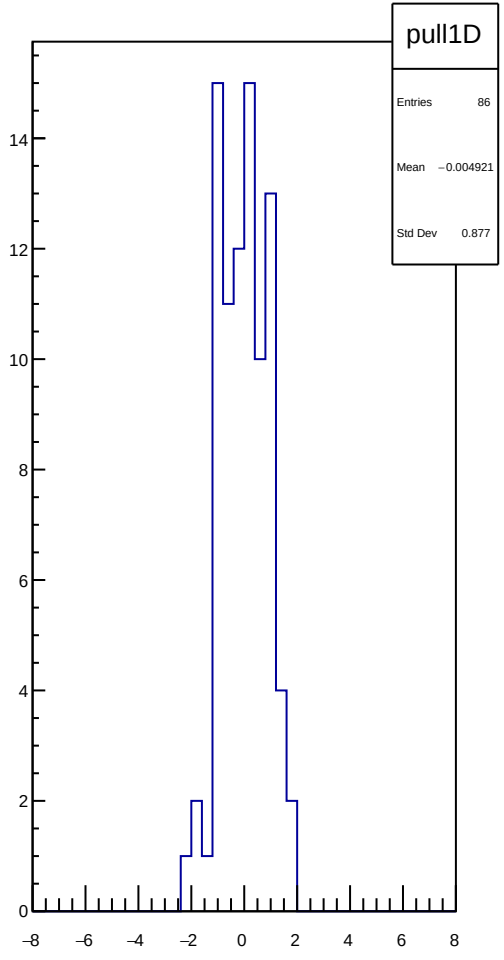


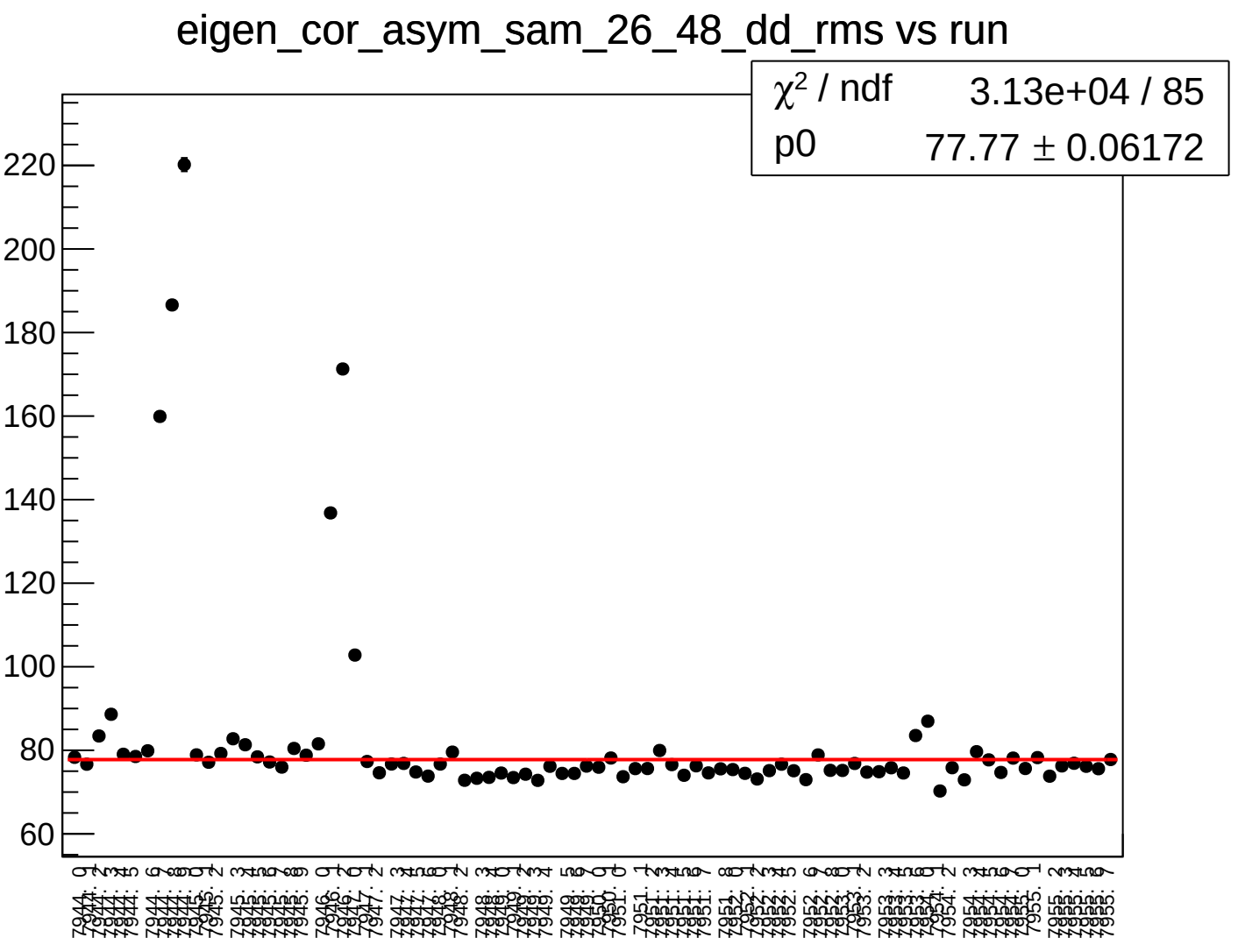

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 79.8 / 85
p0 1099 ± 686
pull
Entries 86
Mean −396.8
Std Dev 0

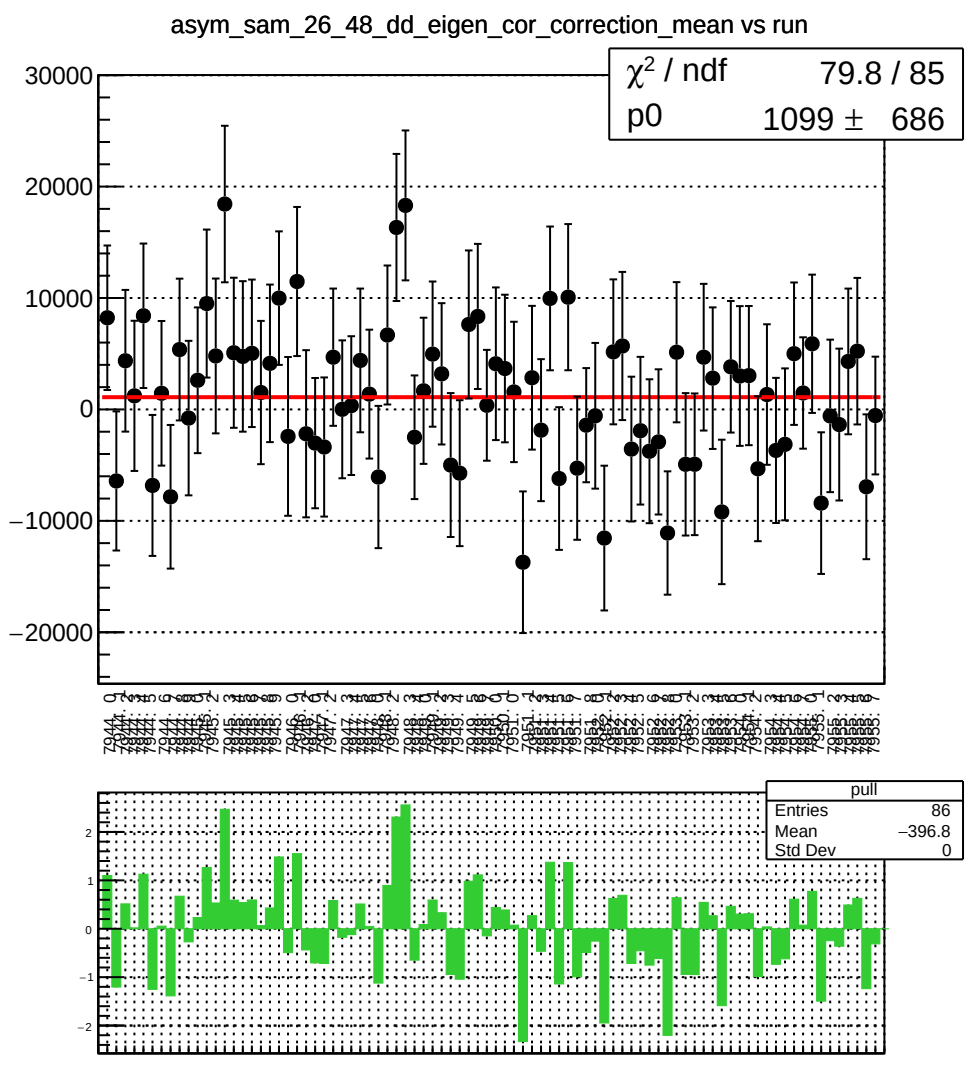

pull1D
Entries 86
Mean 0.01318
Std Dev 0.9632

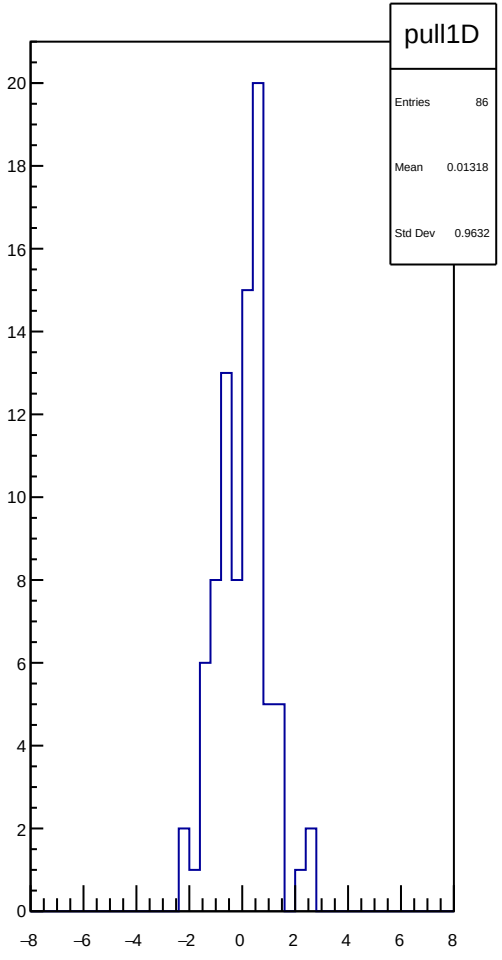

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 2363 / 85
p0 616.8 ± 0.4851
740
720
700
680
660
640
620
600
580
560
540

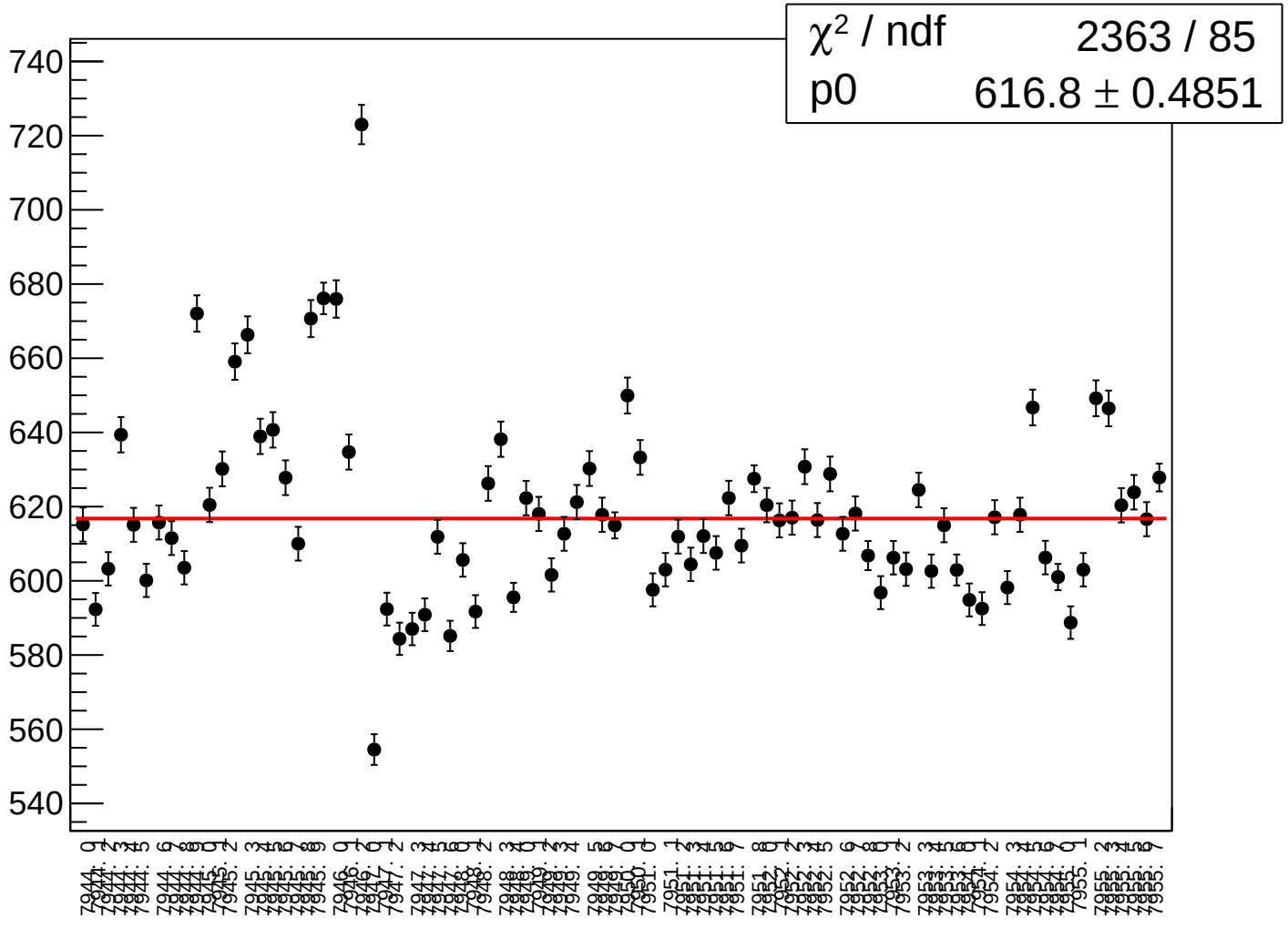

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 66.15 / 85
p0 −43.17 ± 87.28
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −489.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

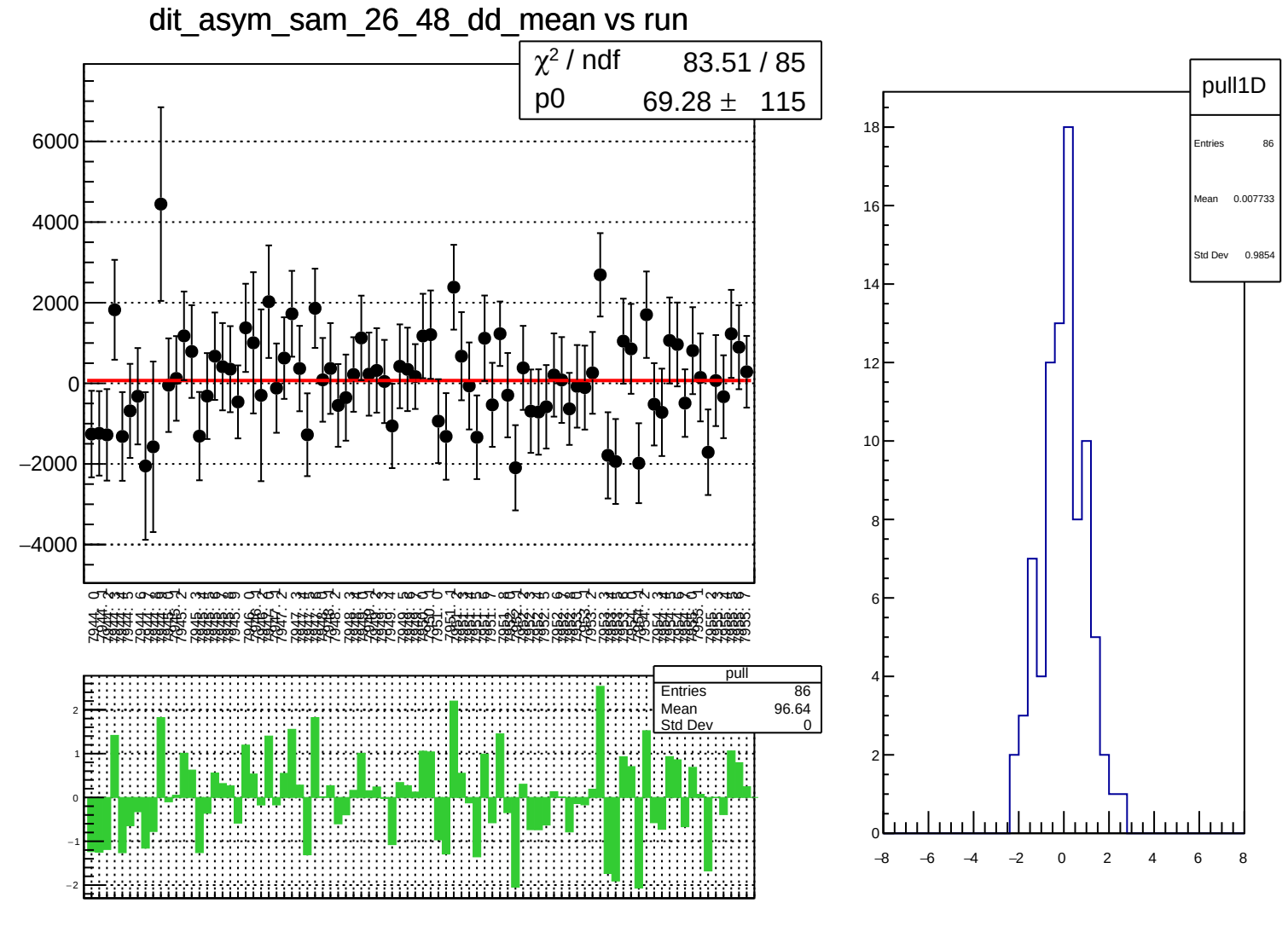

pull1D
Entries 86
Mean −0.004921
Std Dev 0.877
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

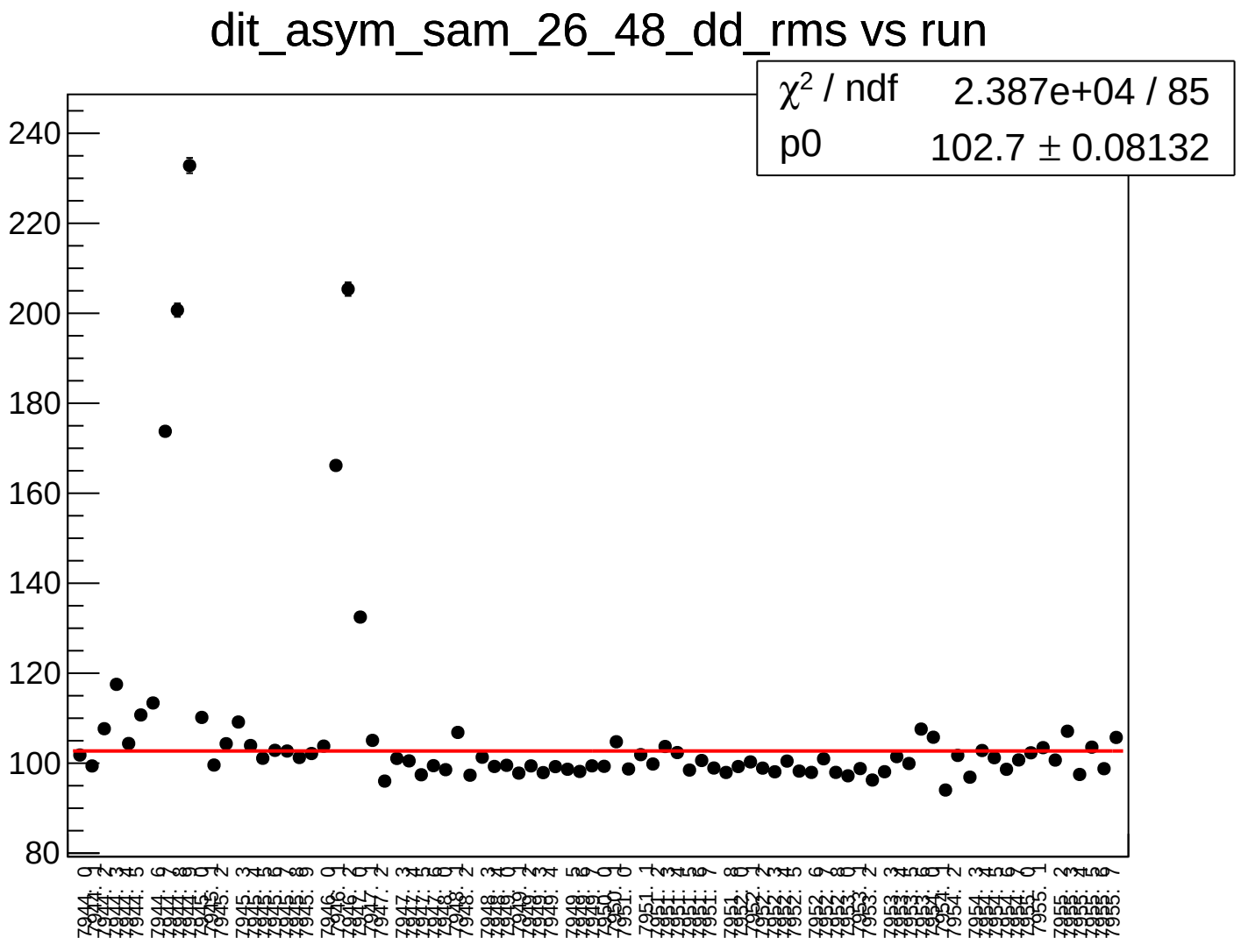

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 3.13e+04 / 85
p0 77.77 ± 0.06172
220
200
180
160
140
120
100
80
60

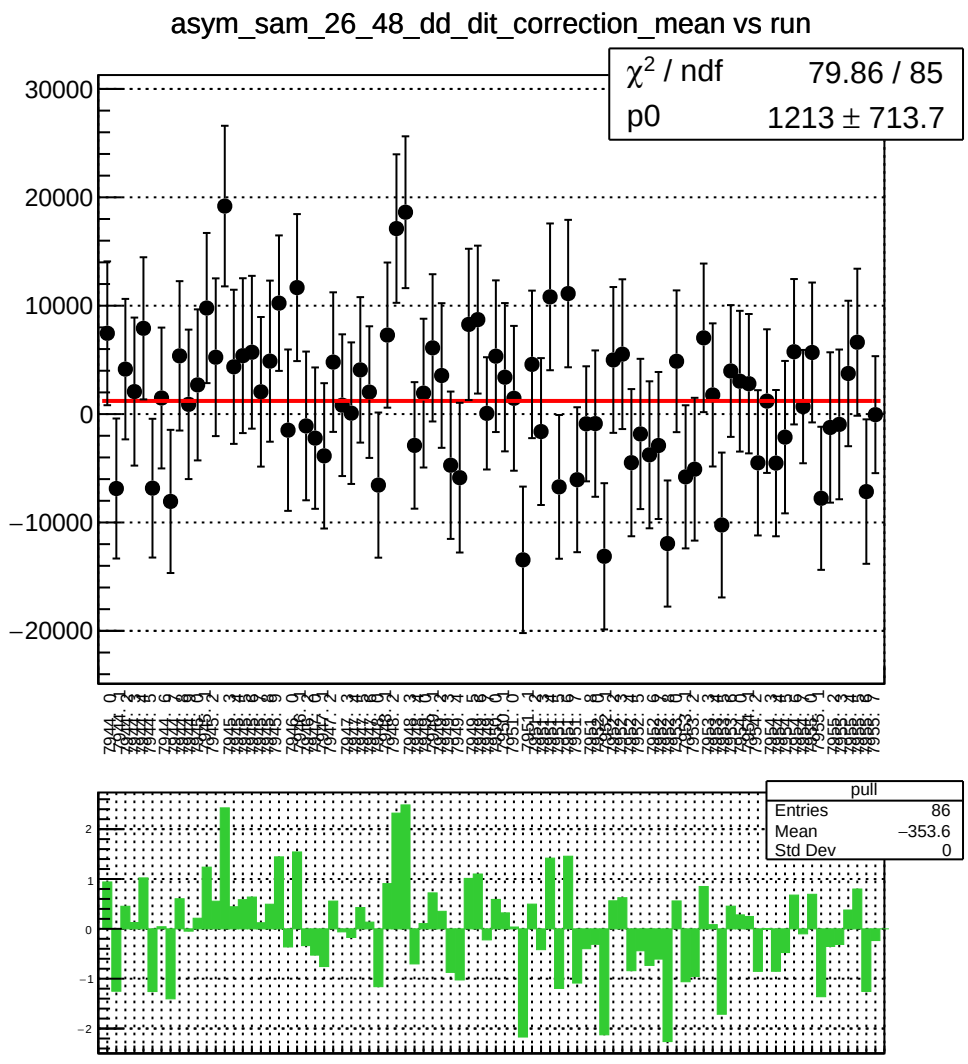

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.8 / 85
p0 1099 ± 686
pull
Entries 86
Mean −396.8
Std Dev 0

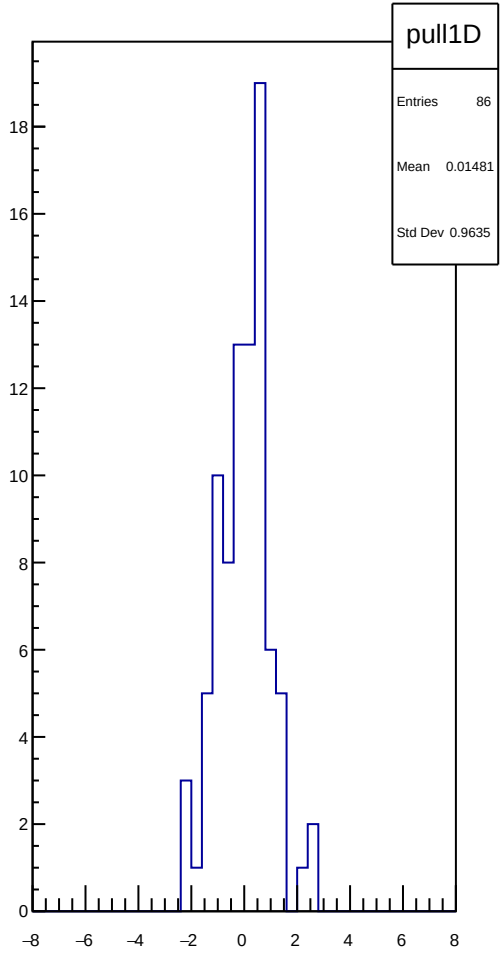

pull1D
Entries 86
Mean 0.01318
Std Dev 0.9632

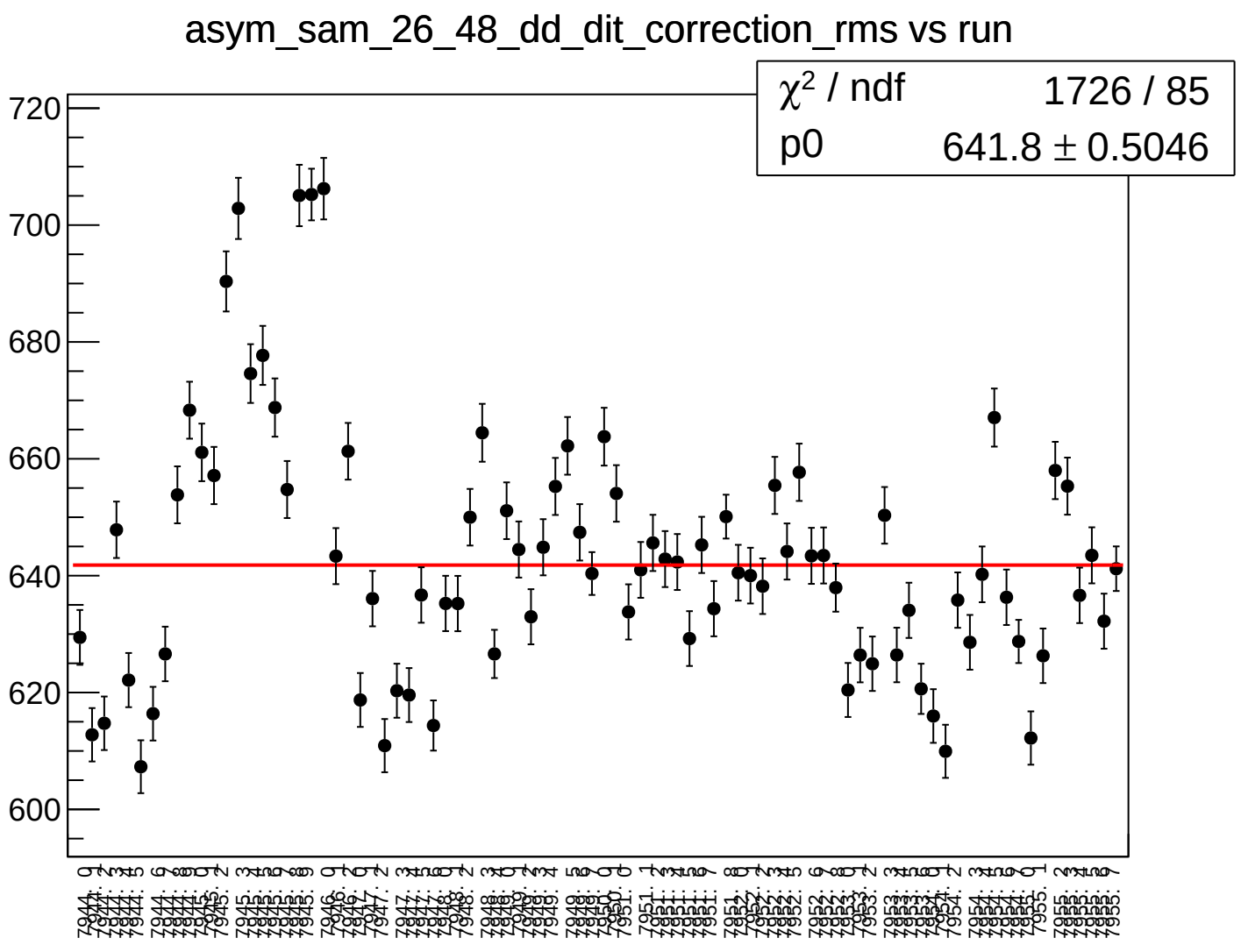

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2363 / 85
p0 616.8 ± 0.4851
740
720
700
680
660
640
620
600
580
560
540

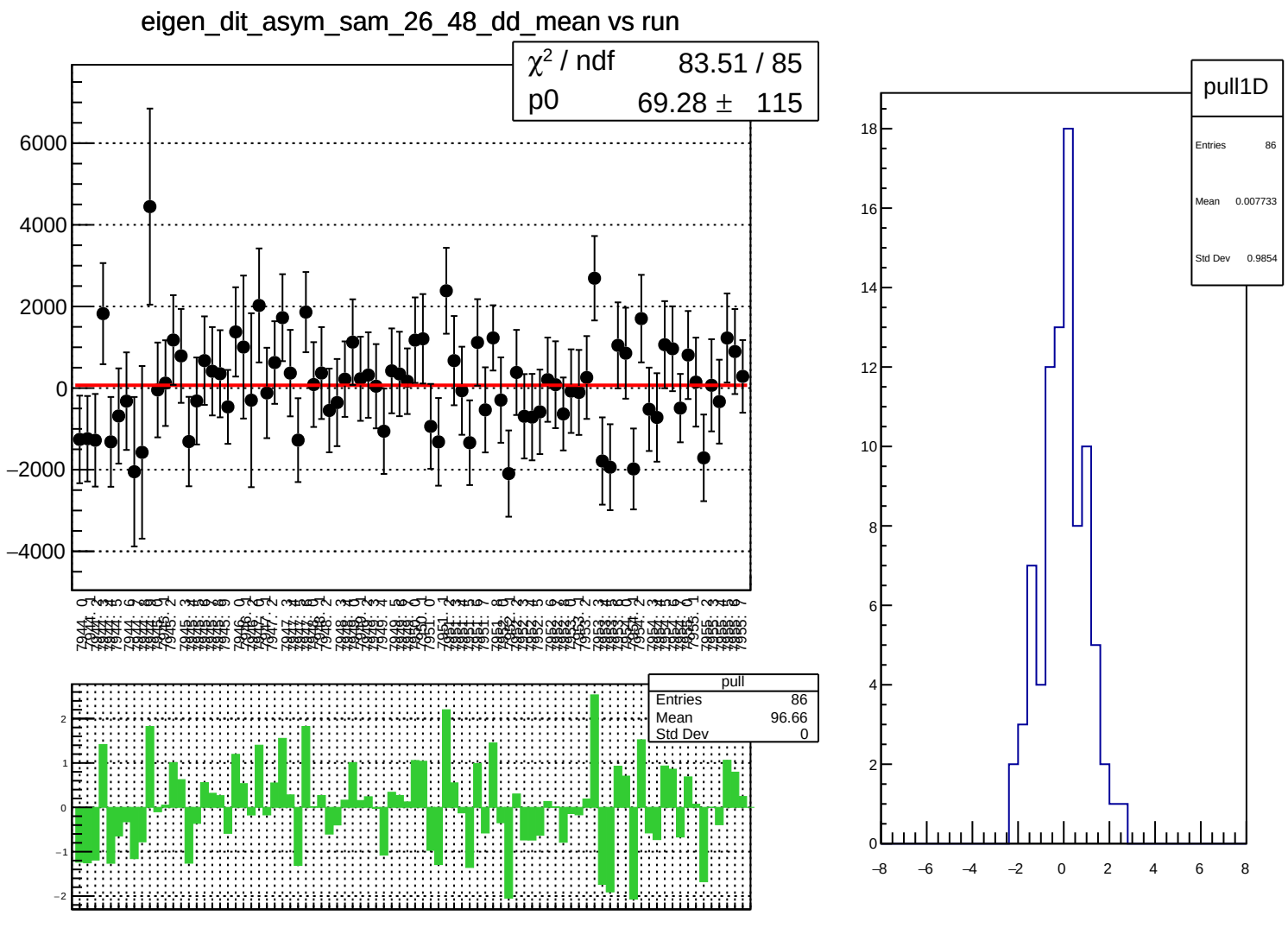

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.51 / 85
p0 69.28 ± 115
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 96.64
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.007733
Std Dev 0.9854
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

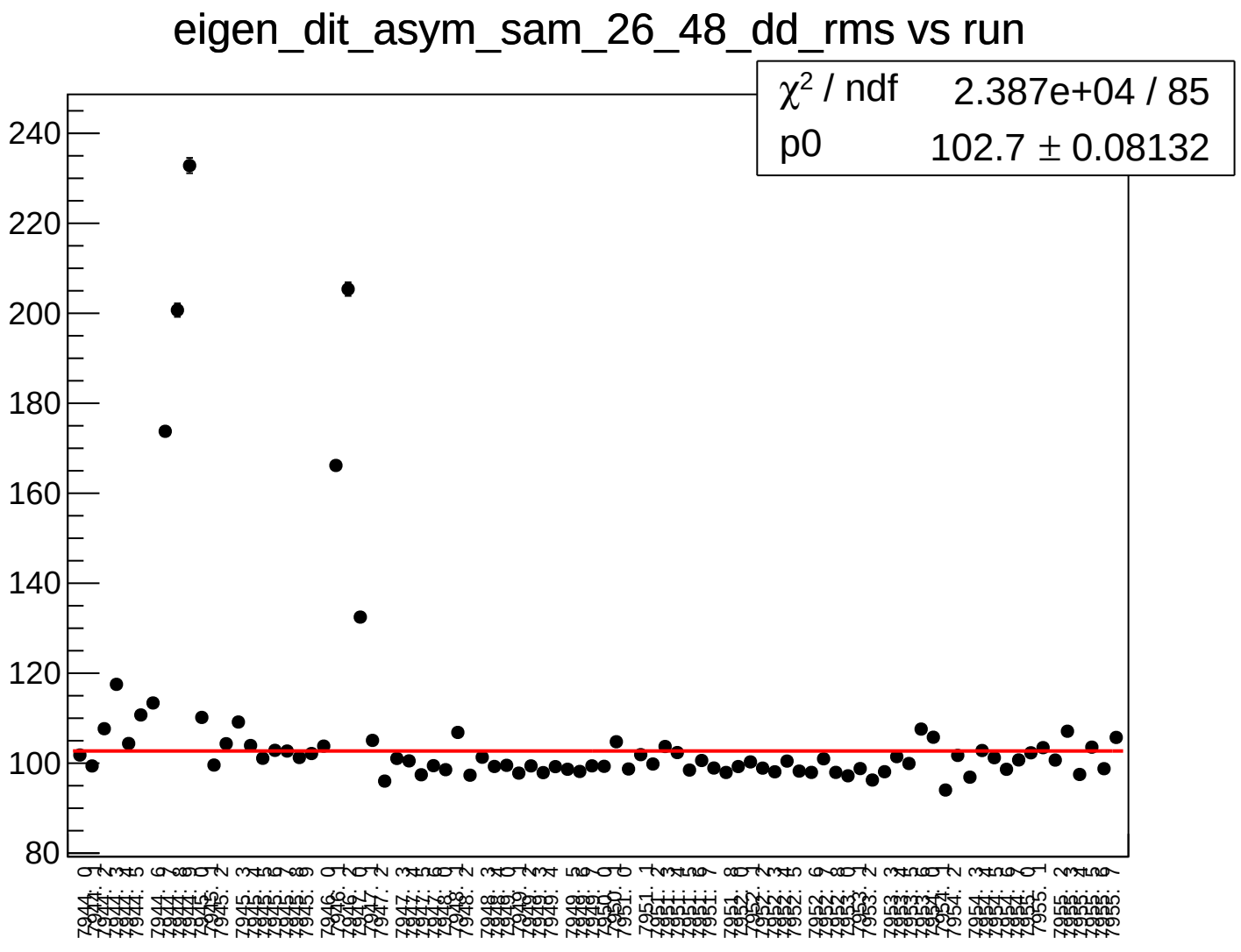

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.387e+04 / 85
p0 102.7 ± 0.08132
240
220
200
180
160
140
120
100
80

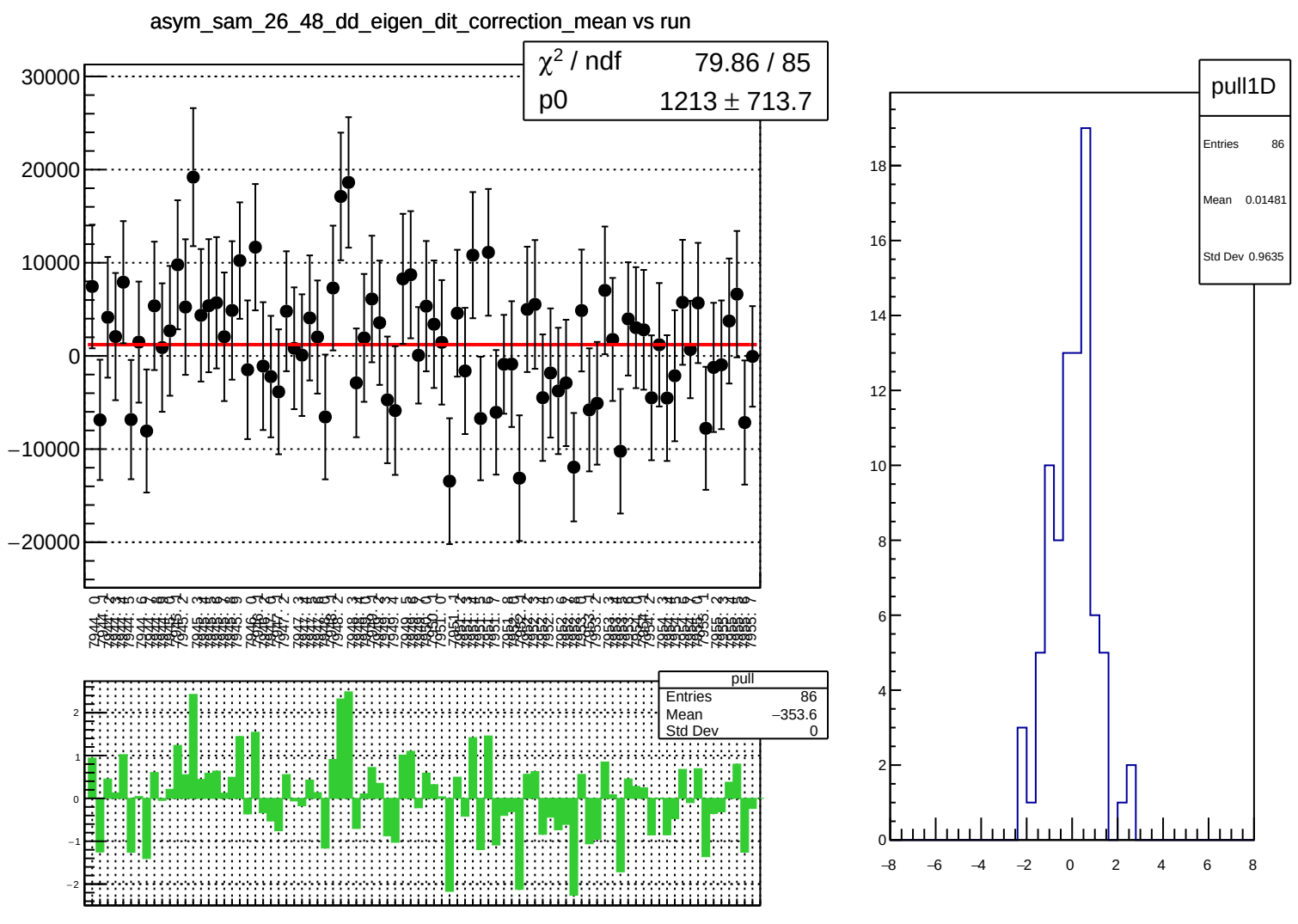

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 79.86 / 85
p0 1213 ± 713.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −353.6
Std Dev 0
2
1
0
−1
−2

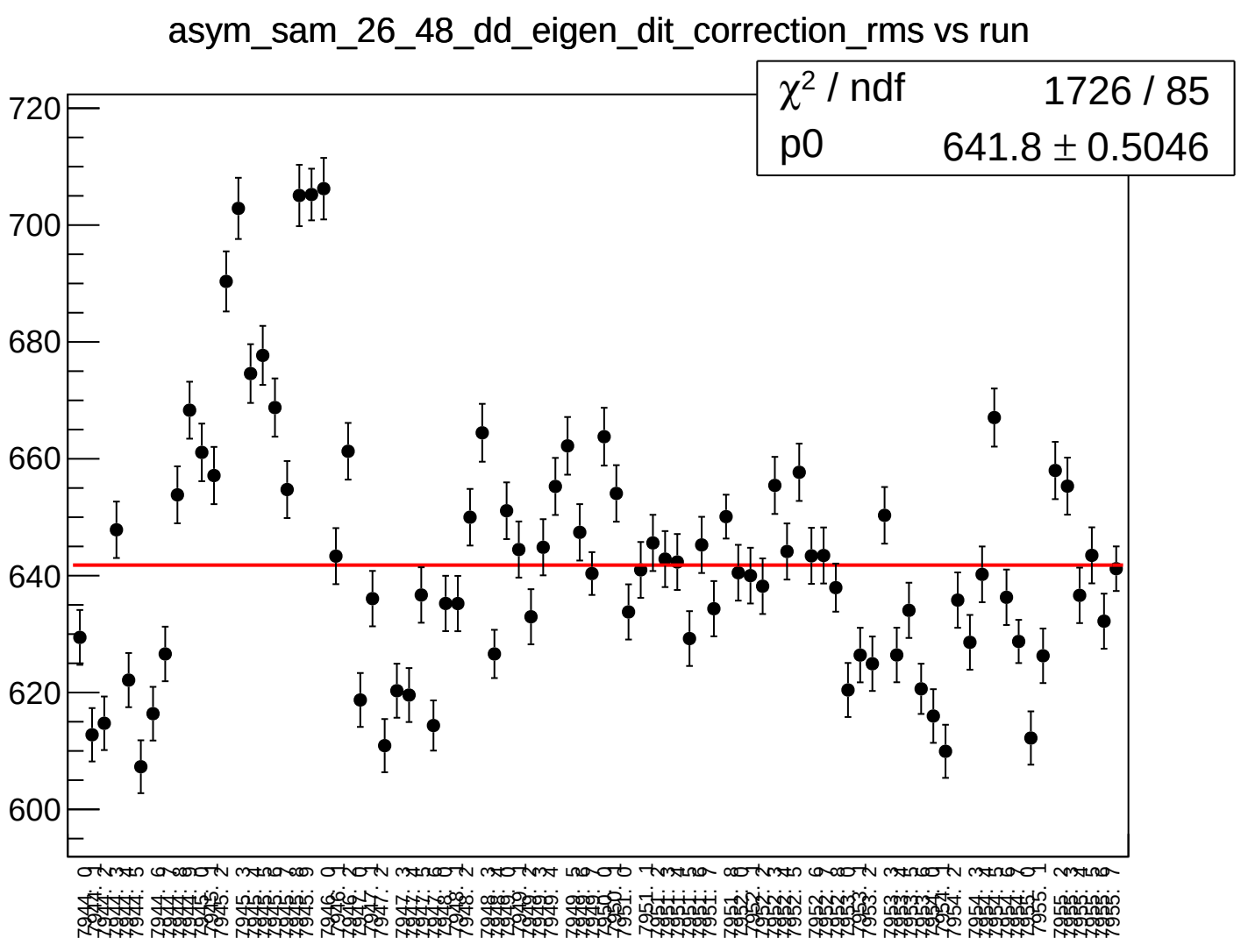

pull1D
Entries 86
Mean 0.01481
Std Dev 0.9635
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

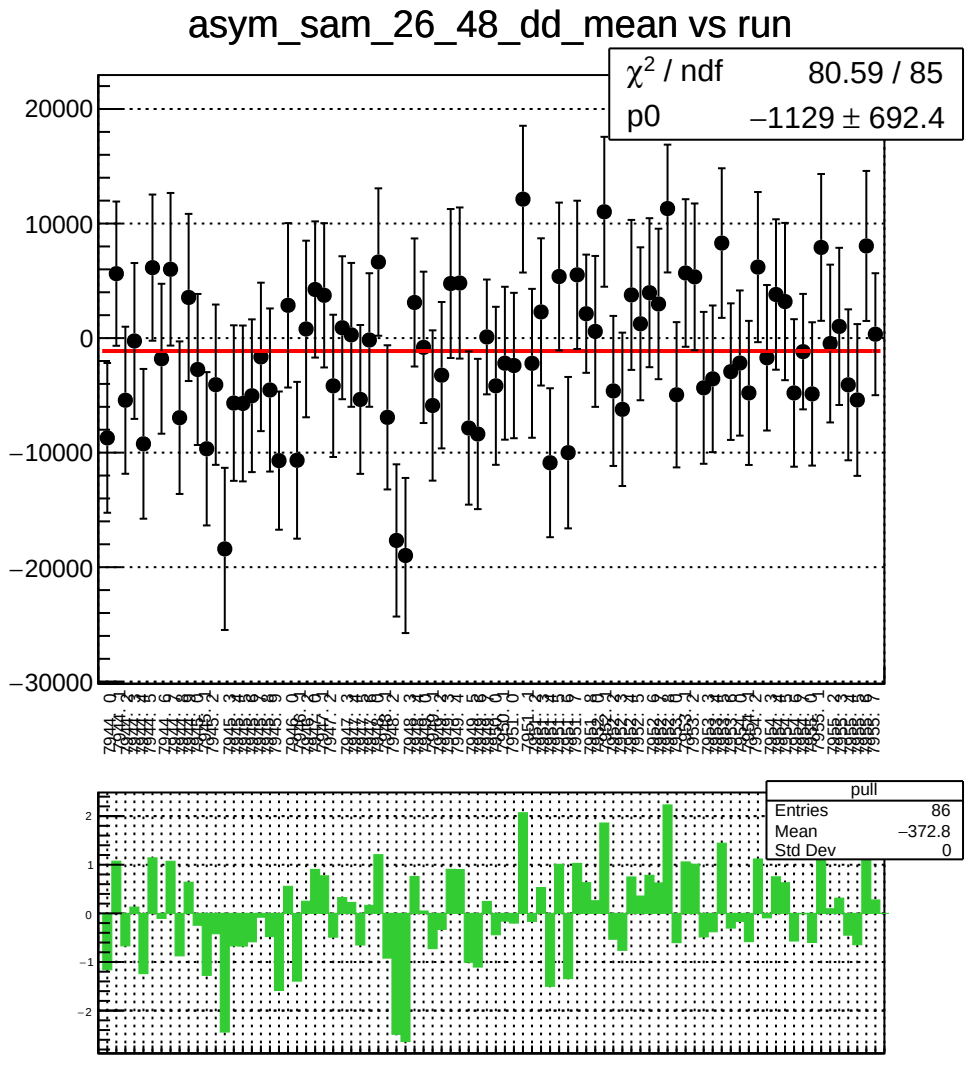

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1726 / 85
p0 641.8 ± 0.5046
720
700
680
660
640
620
600

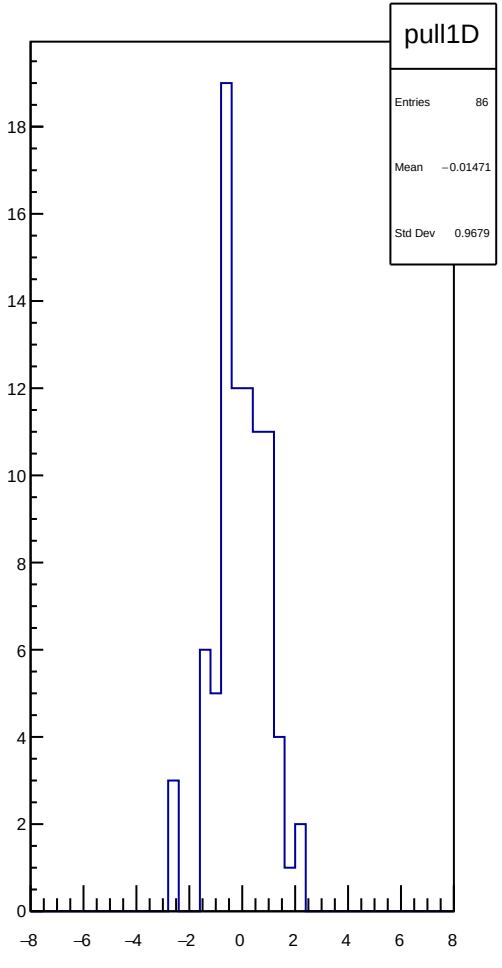

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.51 / 85
p0 69.28 ± 115
pull
Entries 86
Mean 96.66
Std Dev 0
pull1D
Entries 86
Mean 0.007733
Std Dev 0.9854

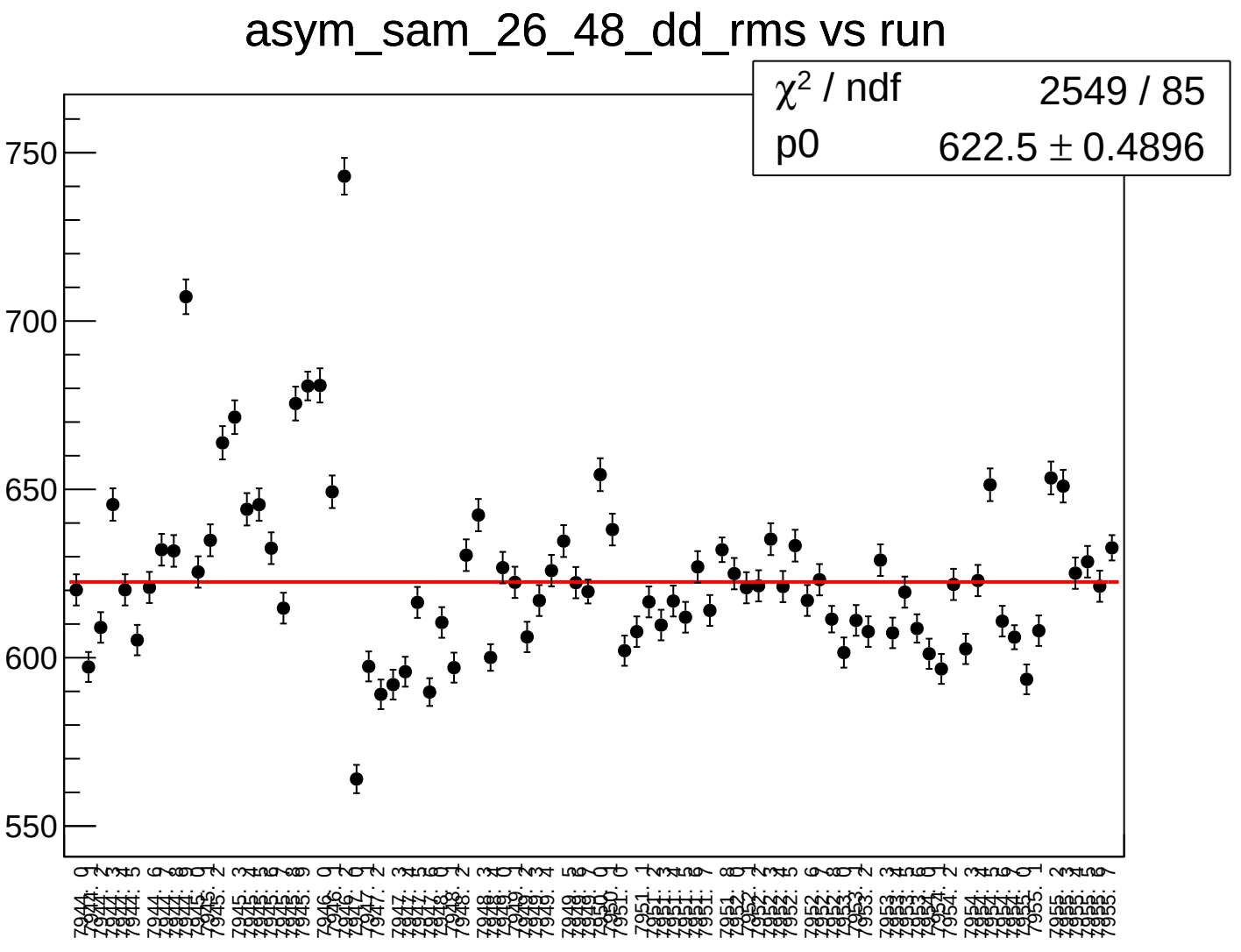

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.387e+04 / 85
p0 102.7 ± 0.08132
240
220
200
180
160
140
120
100
80

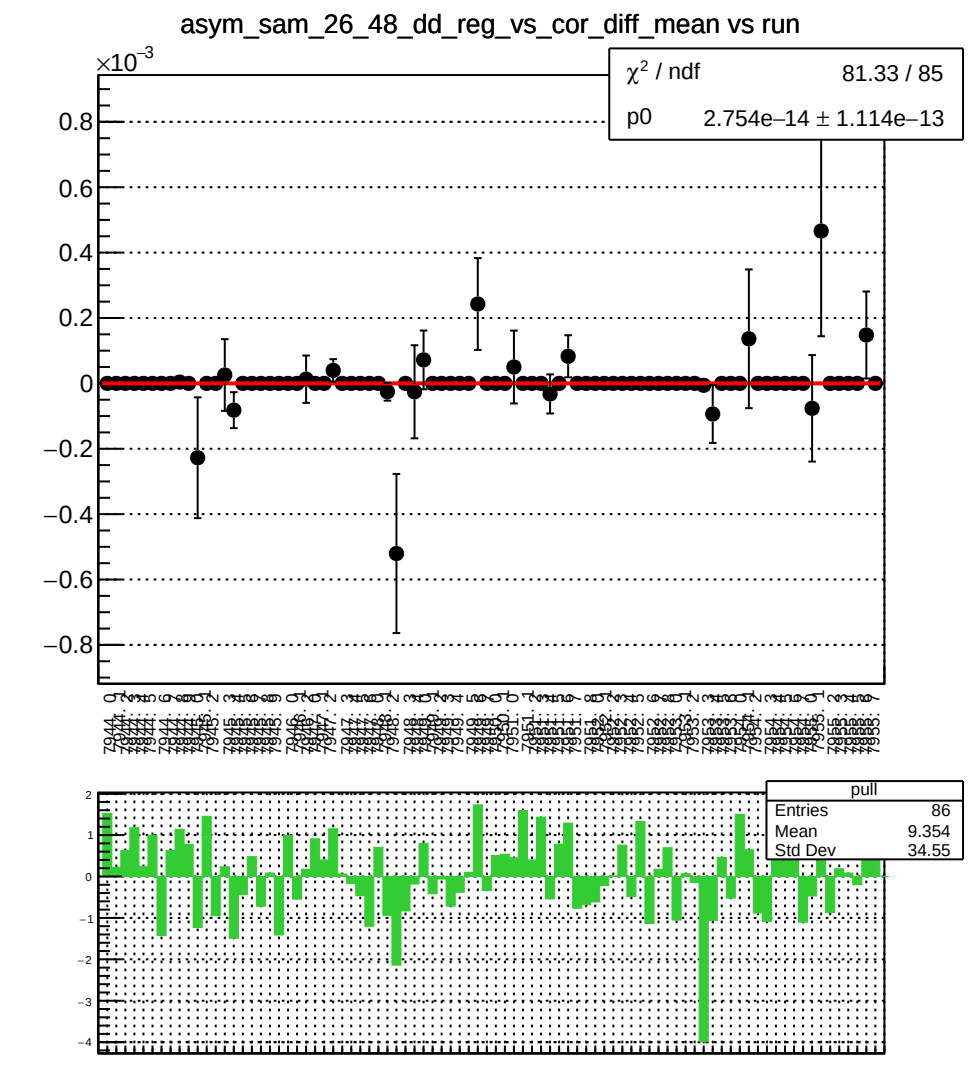

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.86 / 85
p0 1213 ± 713.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −353.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01481
Std Dev 0.9635
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

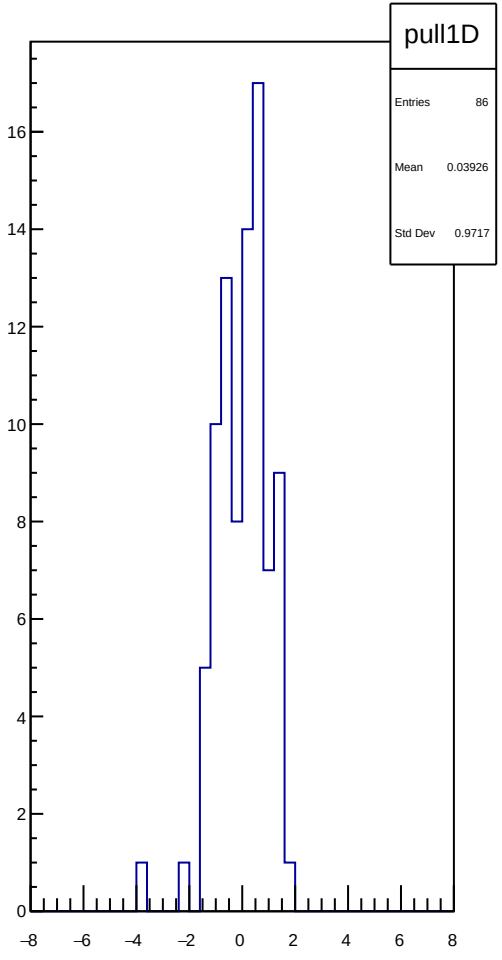

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1726 / 85
p0 641.8 ± 0.5046
720
700
680
660
640
620
600

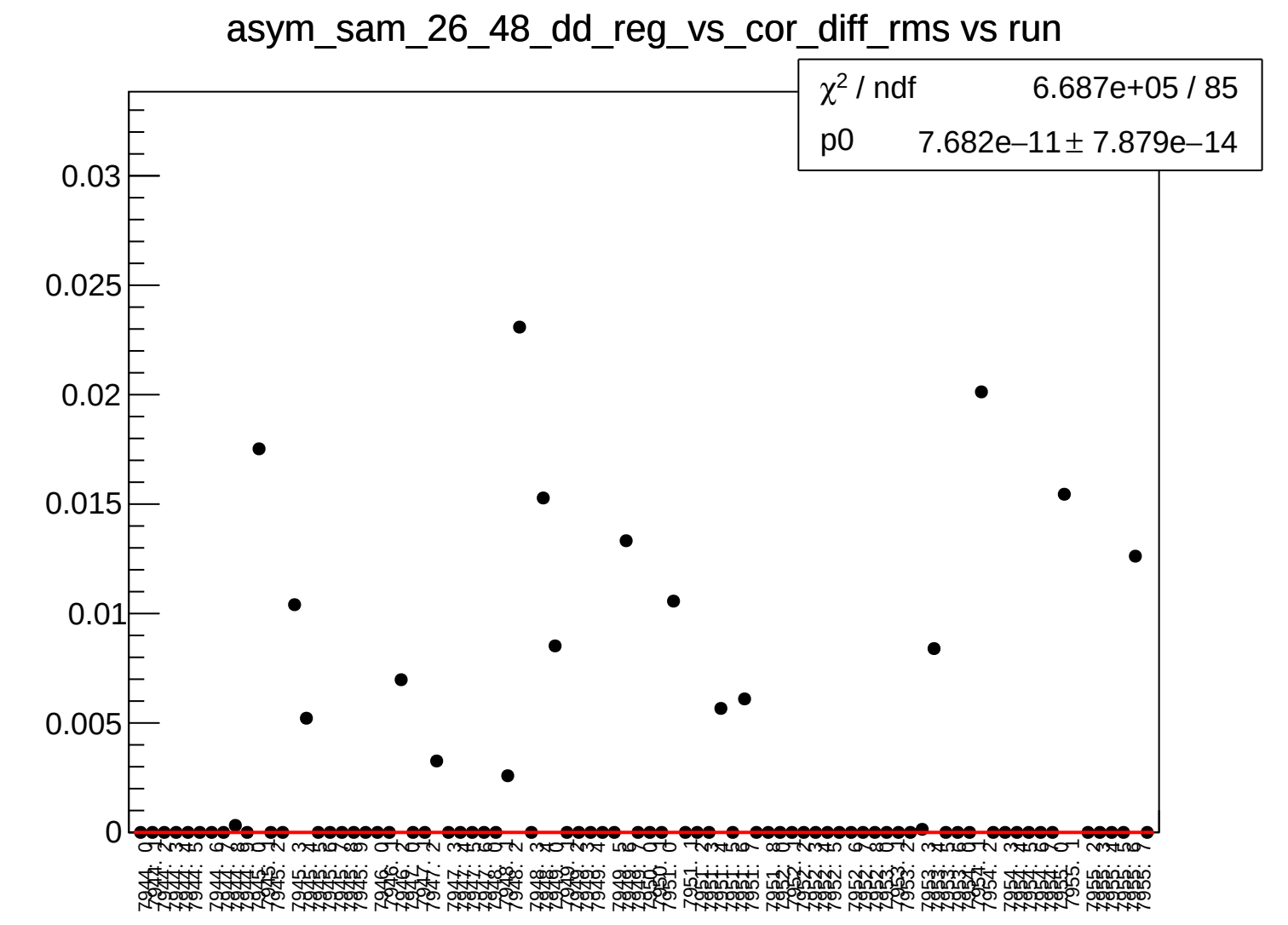

asym_sam_26_48_dd_mean vs run
χ² / ndf 80.59 / 85
p0 −1129 ± 692.4
pull
Entries 86
Mean −372.8
Std Dev 0

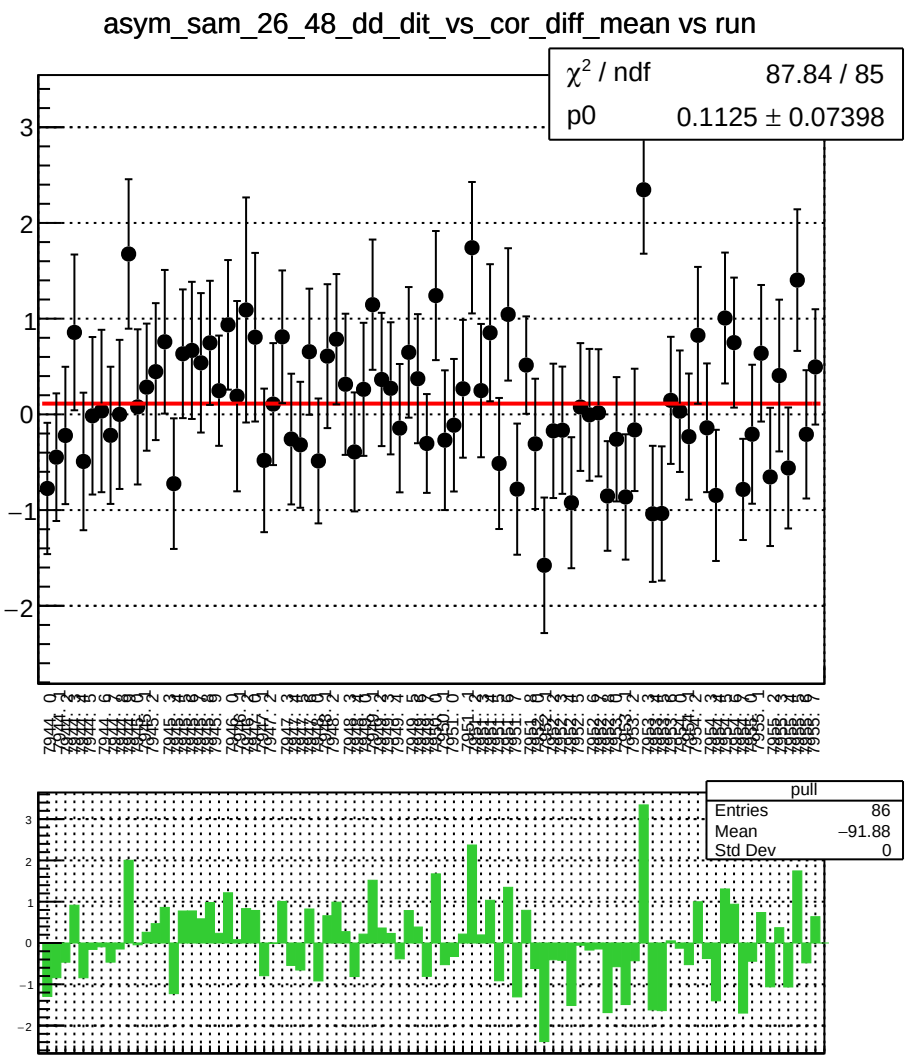

pull1D
Entries 86
Mean −0.01471
Std Dev 0.9679

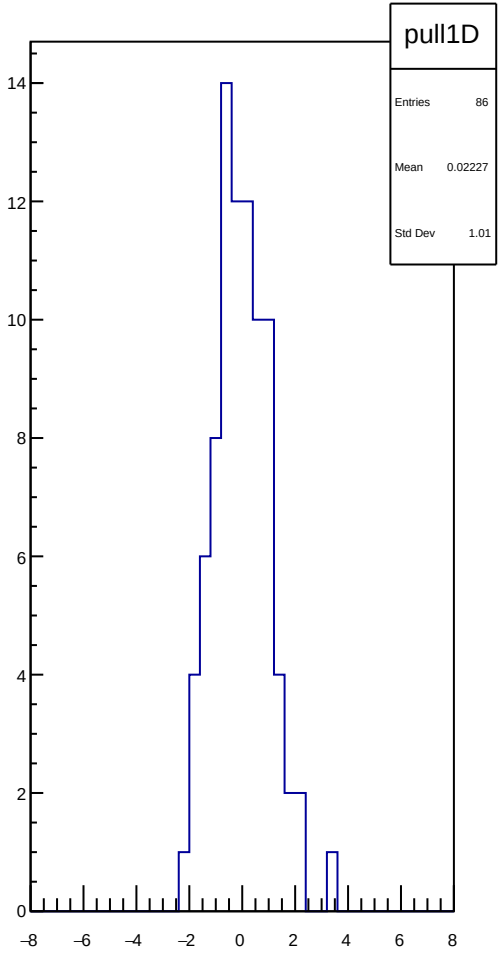

asym_sam_26_48_dd_rms vs run
χ² / ndf 2549 / 85
p0 622.5 ± 0.4896
750
700
650
600
550

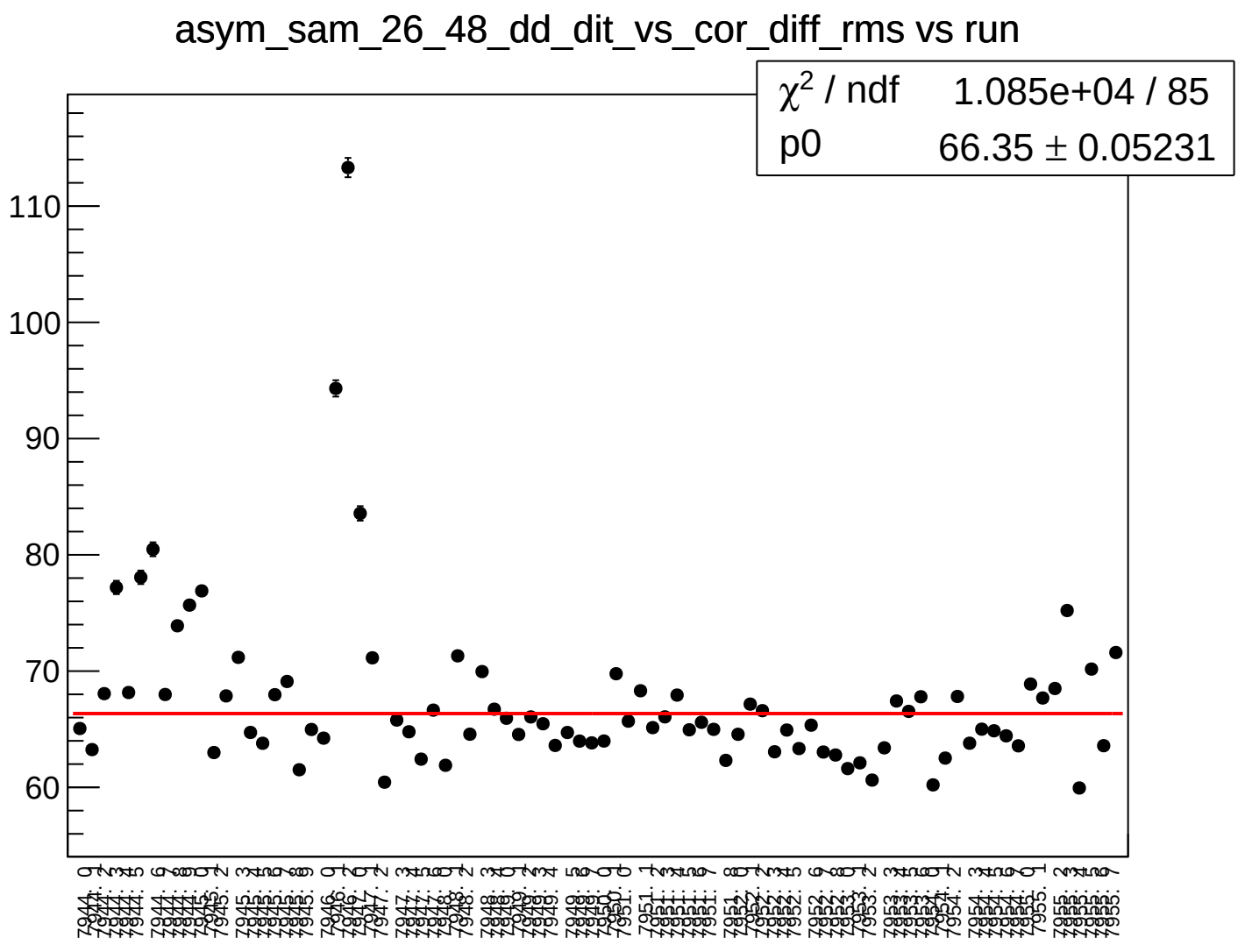

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 81.33 / 85
p0 2.754e−14 ± 1.114e−13
pull
Entries 86
Mean 9.354
Std Dev 34.55

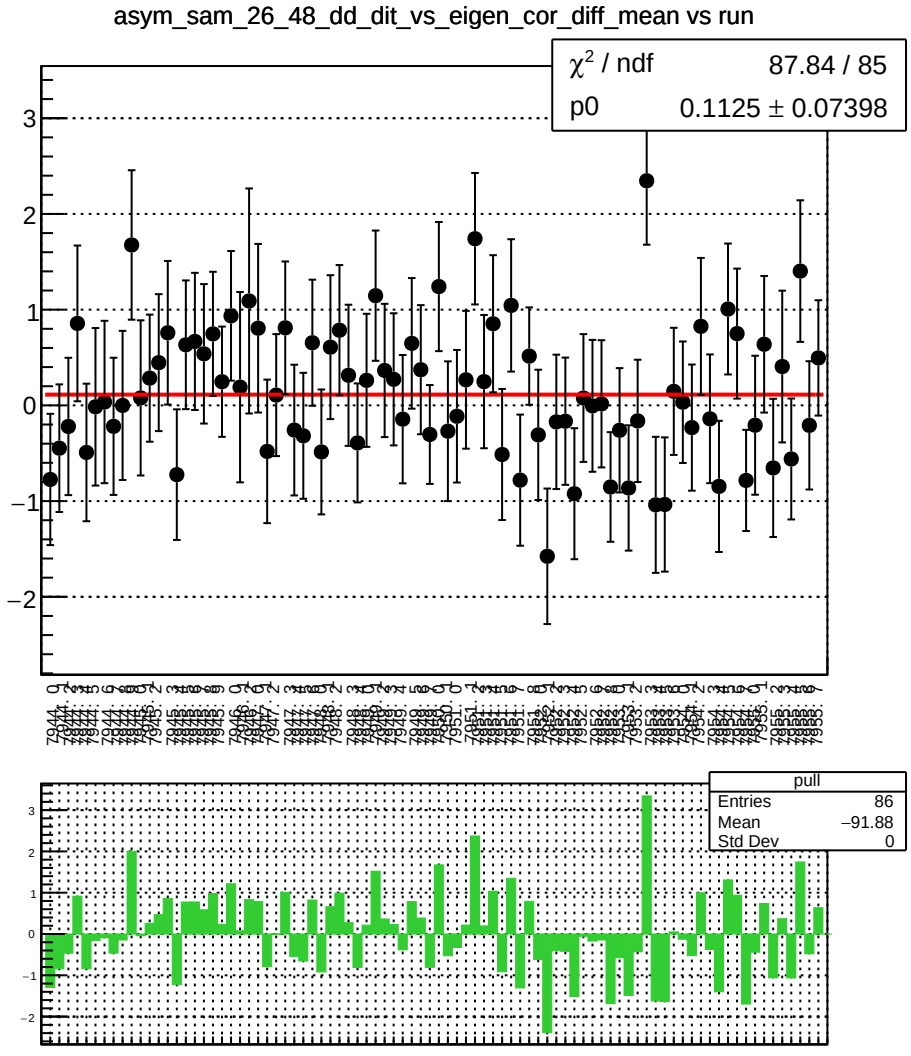

pull1D
Entries 86
Mean 0.03926
Std Dev 0.9717

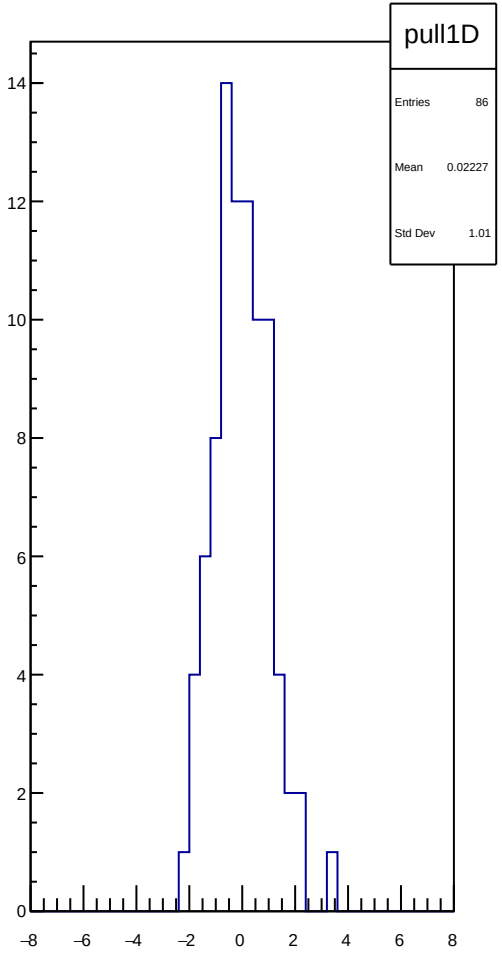

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.687e+05 / 85
p0 7.682e−11 ± 7.879e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

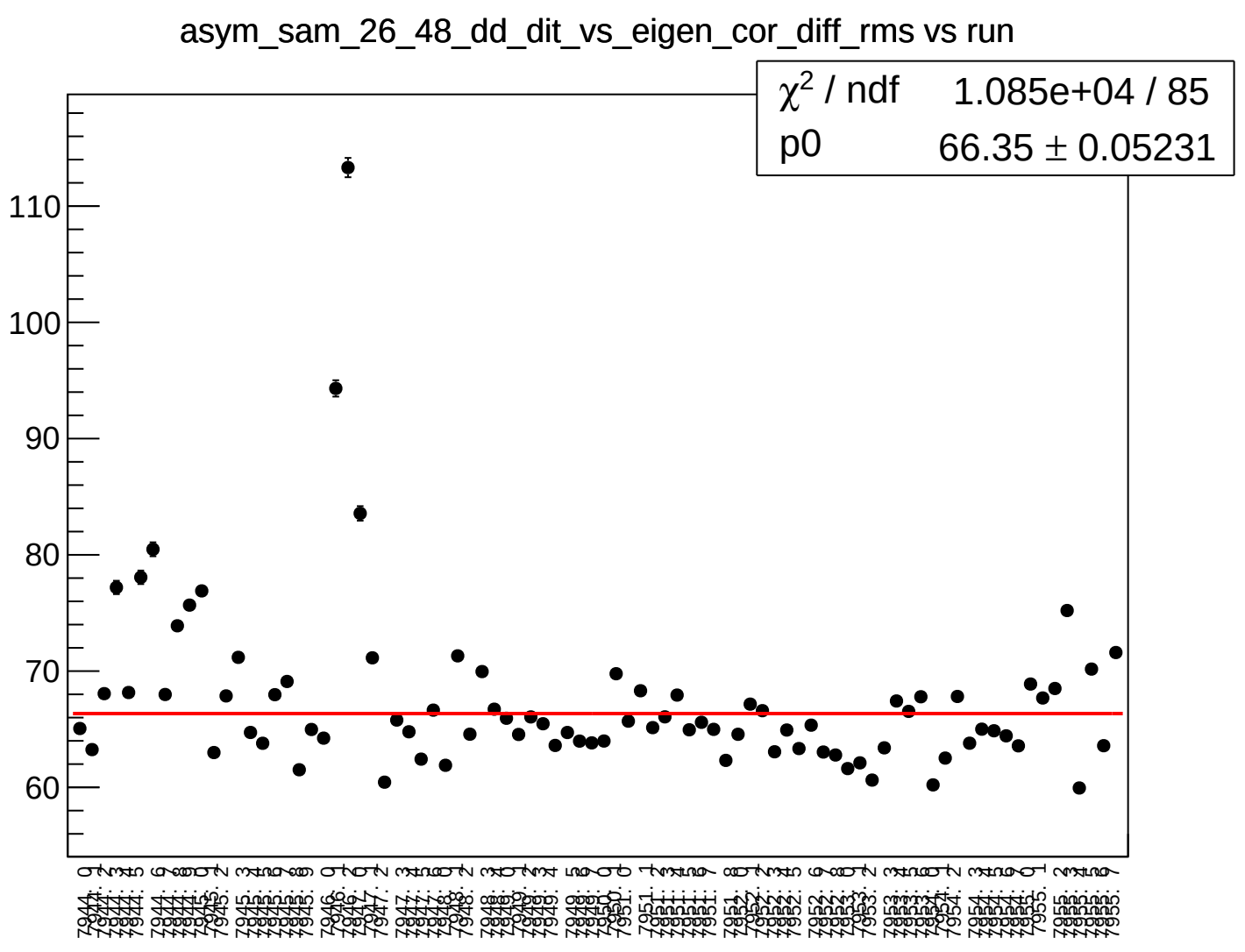

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.84 / 85
p0 0.1125 ± 0.07398
pull
Entries 86
Mean −91.88
Std Dev 0

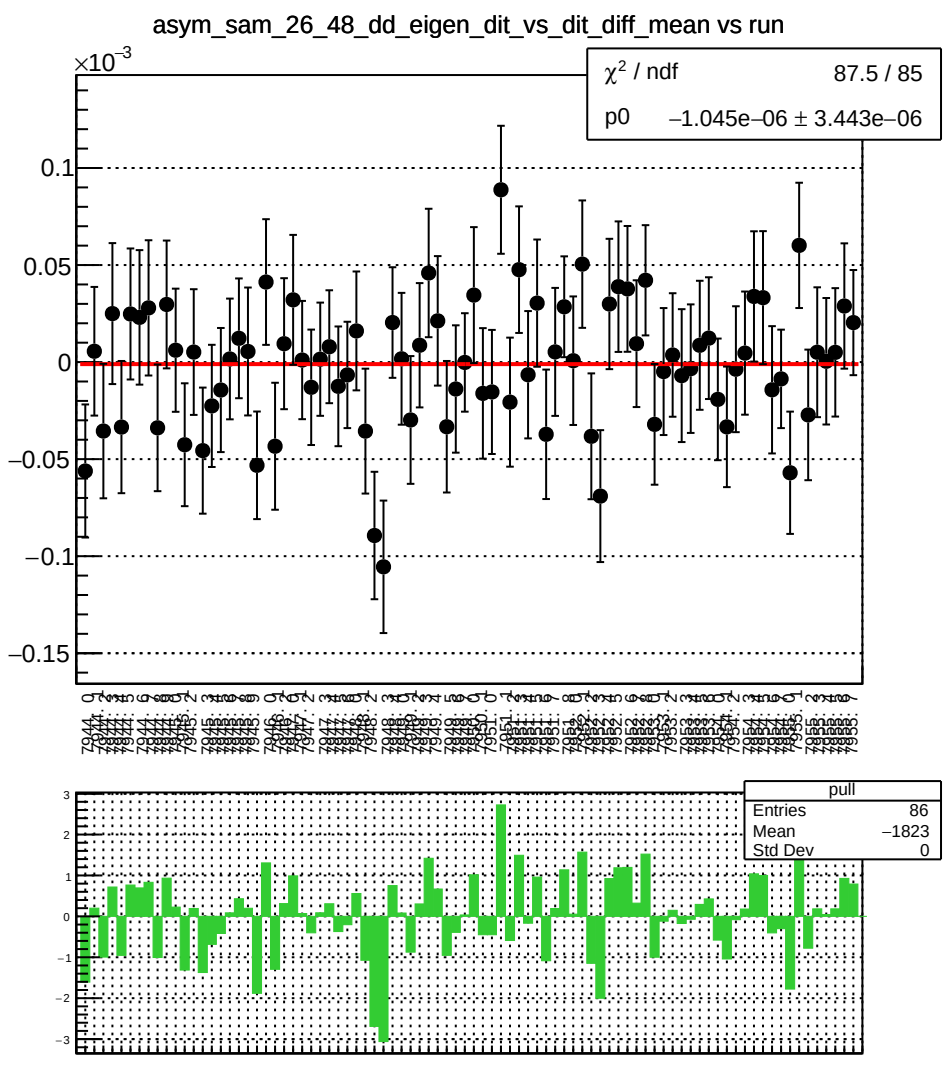

pull1D
Entries 86
Mean 0.02227
Std Dev 1.01

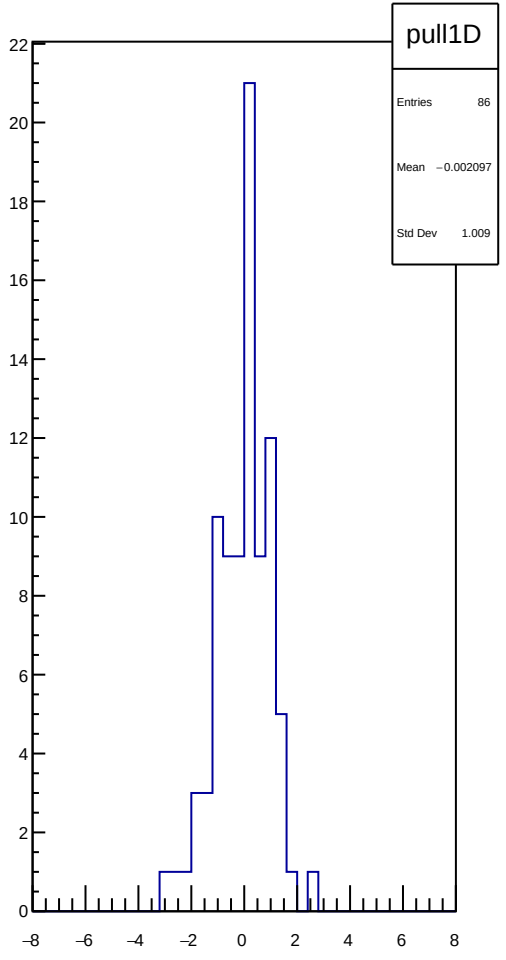

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.085e+04 / 85
p0 66.35 ± 0.05231
110
100
90
80
70
60

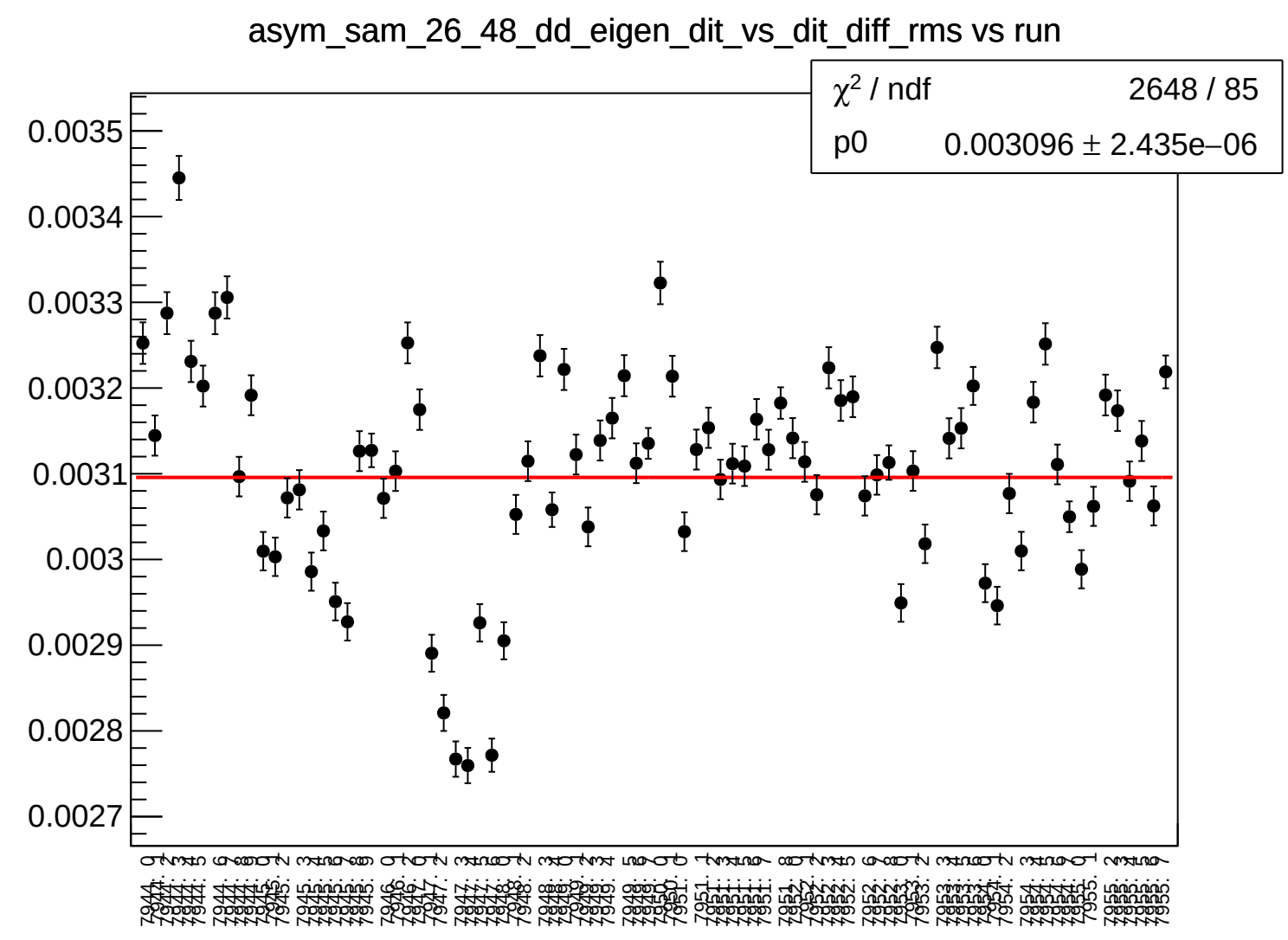

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.84 / 85
p0 0.1125 ± 0.07398
pull
Entries 86
Mean −91.88
Std Dev 0

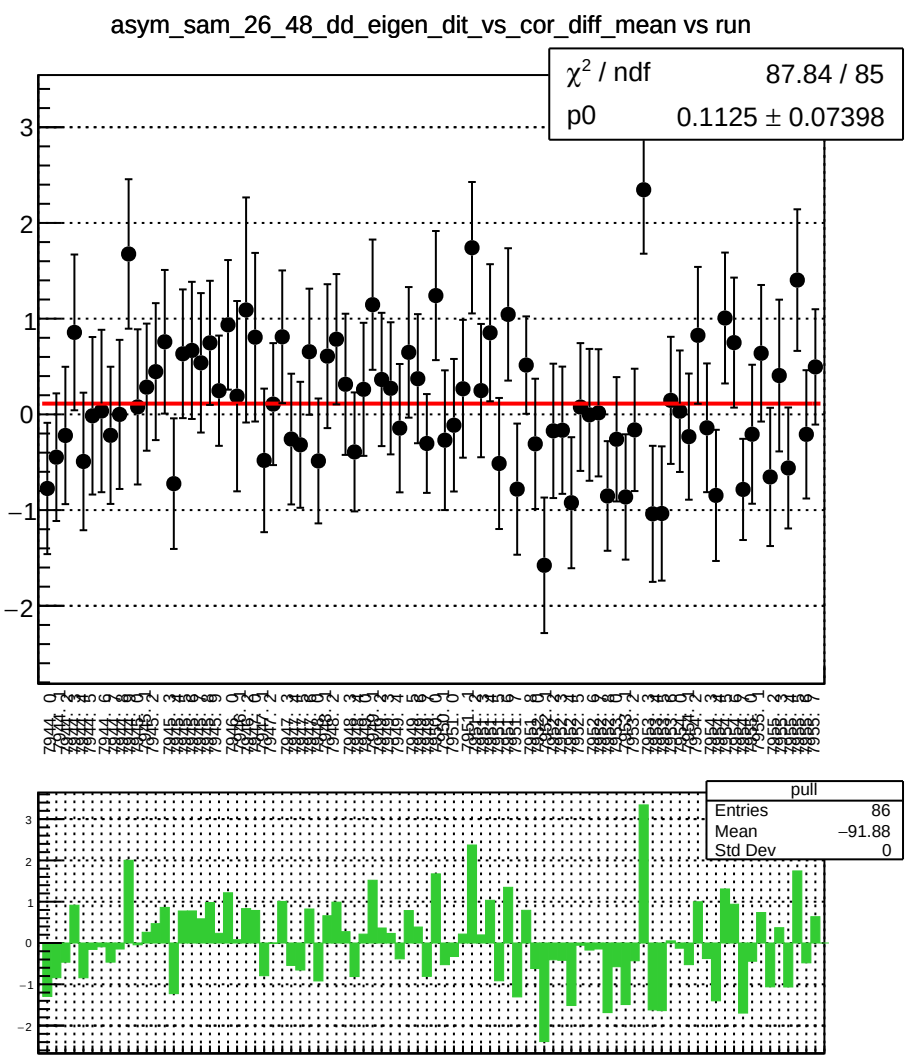

pull1D
Entries 86
Mean 0.02227
Std Dev 1.01

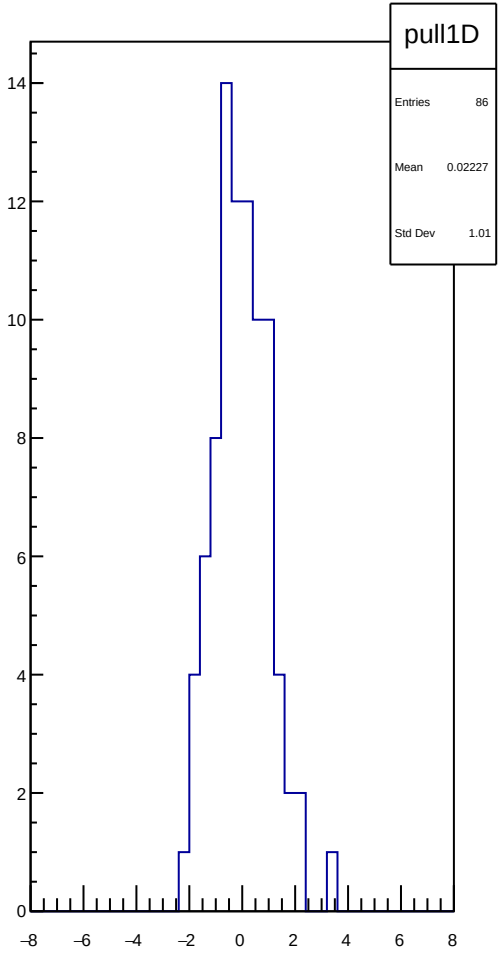

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.085e+04 / 85
p0 66.35 ± 0.05231
110
100
90
80
70
60

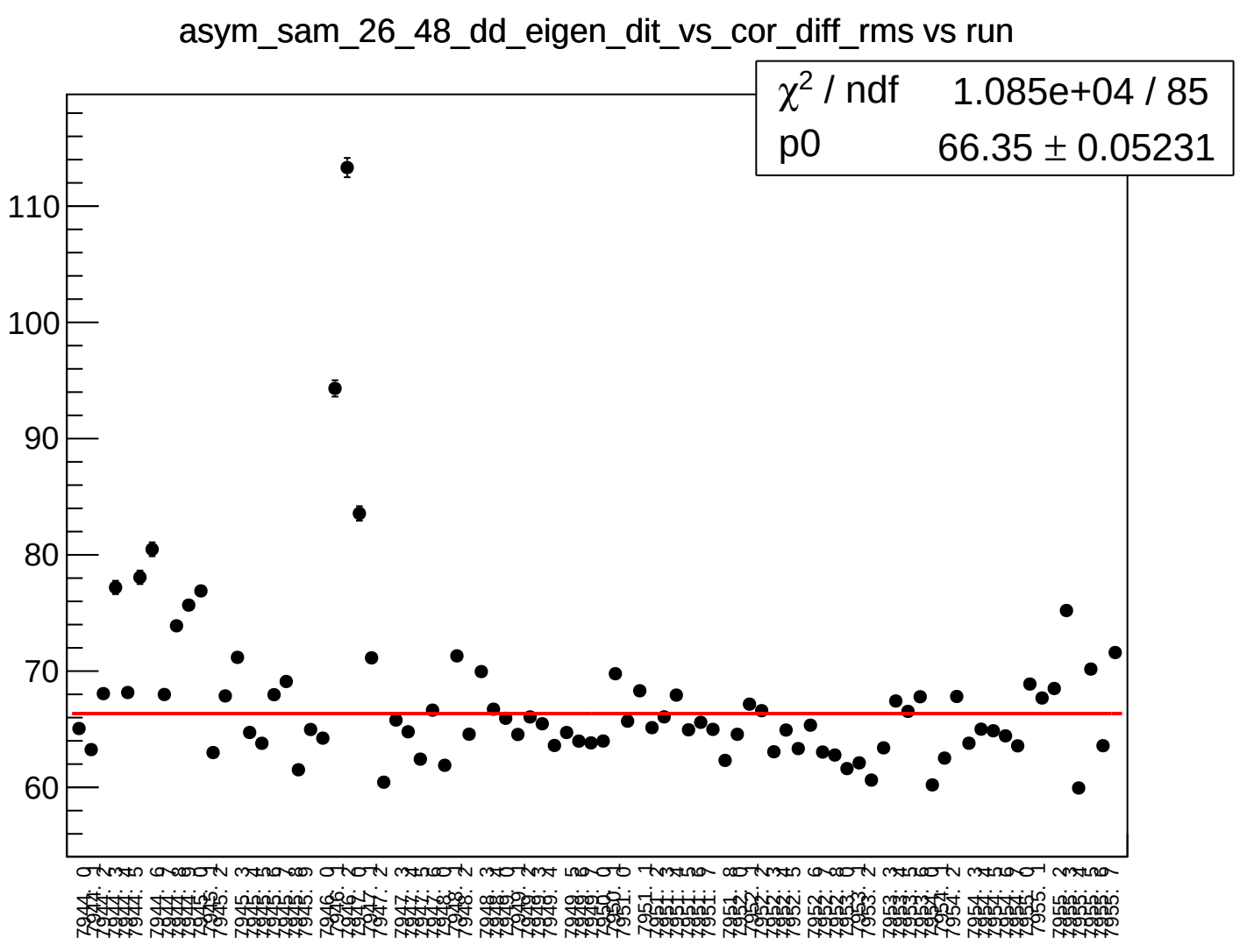

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.5 / 85
p0 −1.045e−06 ± 3.443e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean −1823
Std Dev 0
3
2
1
0
−1
−2
−3

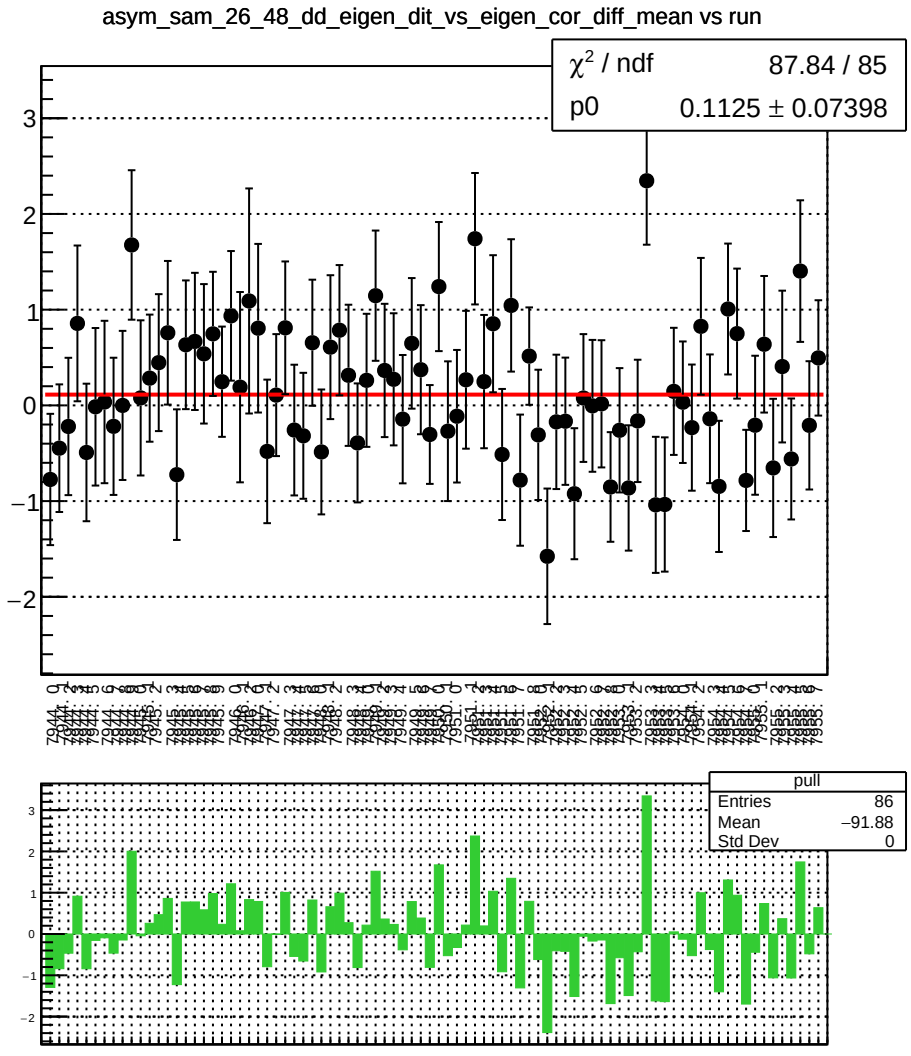

pull1D
Entries 86
Mean −0.002097
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

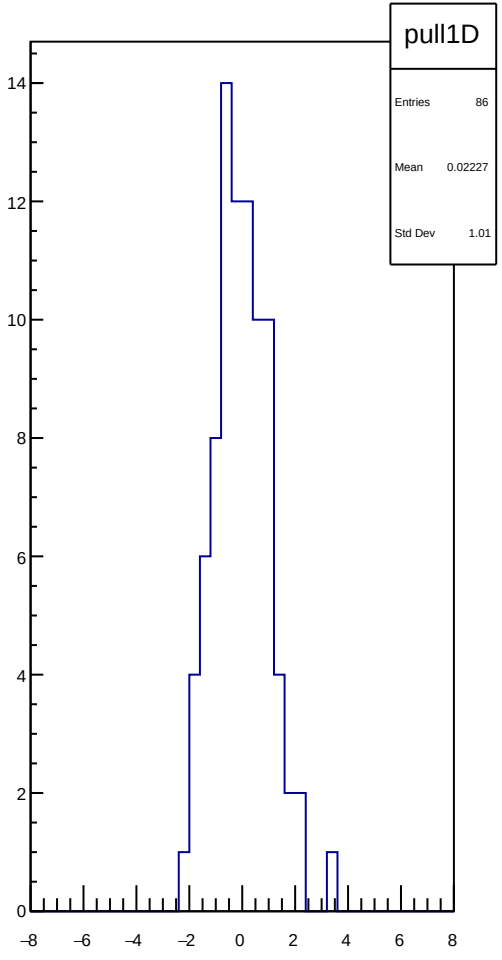

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2648 / 85
p0 0.003096 ± 2.435e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

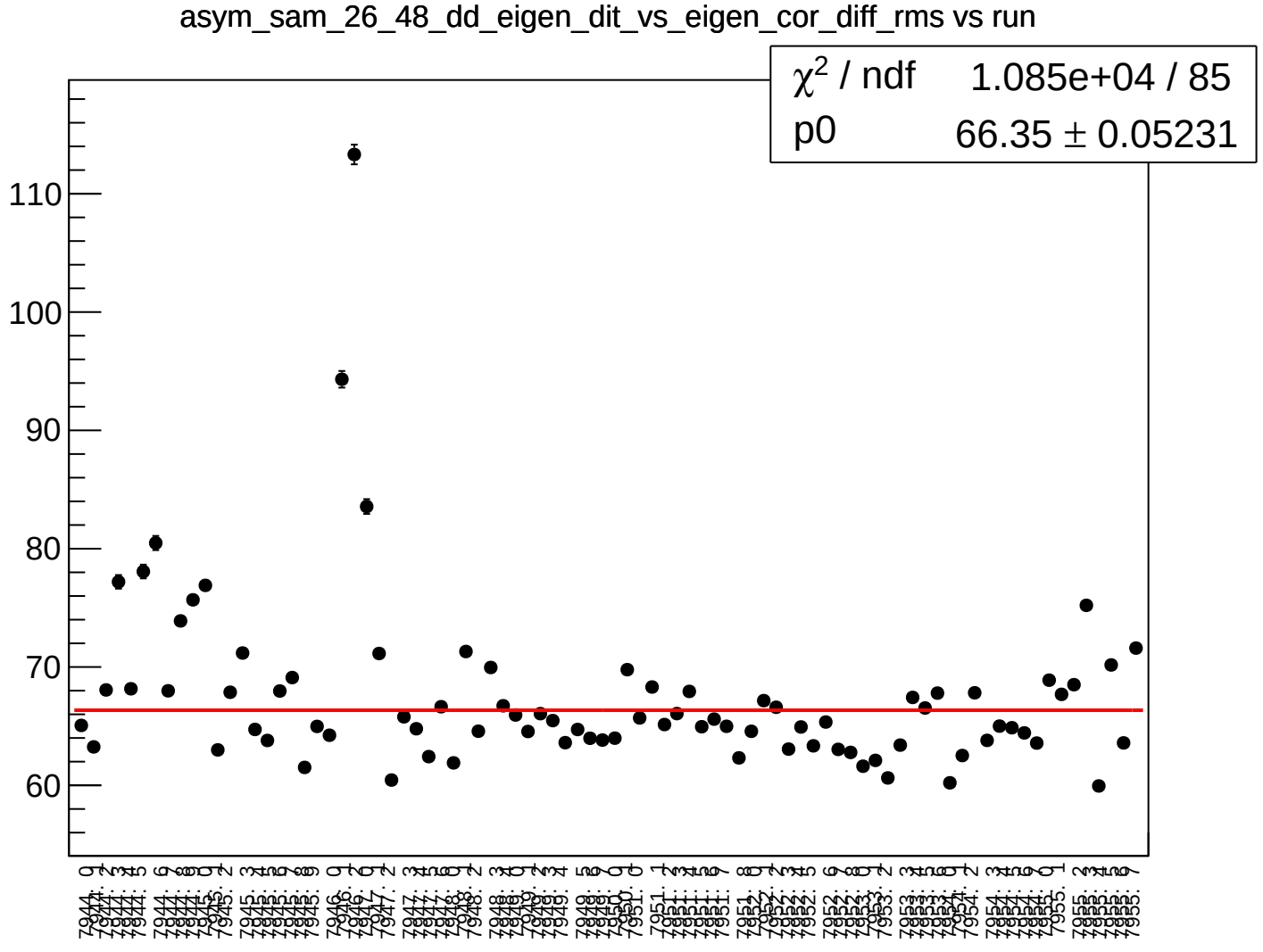

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.84 / 85
p0 0.1125 ± 0.07398
pull
Entries 86
Mean −91.88
Std Dev 0

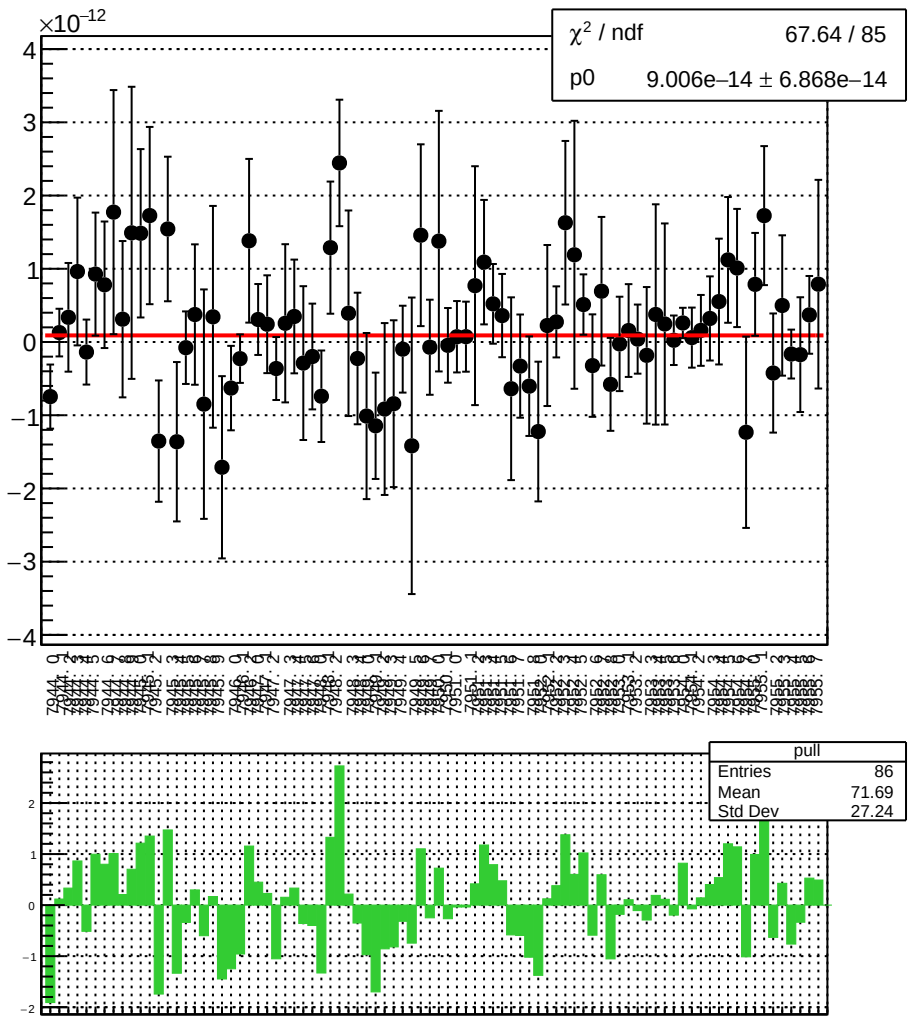

pull1D
Entries 86
Mean 0.02227
Std Dev 1.01

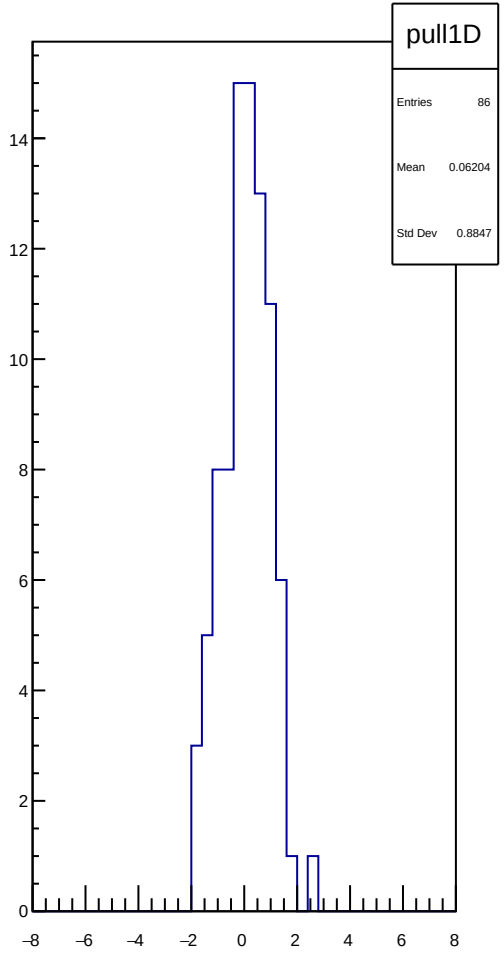

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.085e+04 / 85
p0 66.35 ± 0.05231
110
100
90
80
70
60

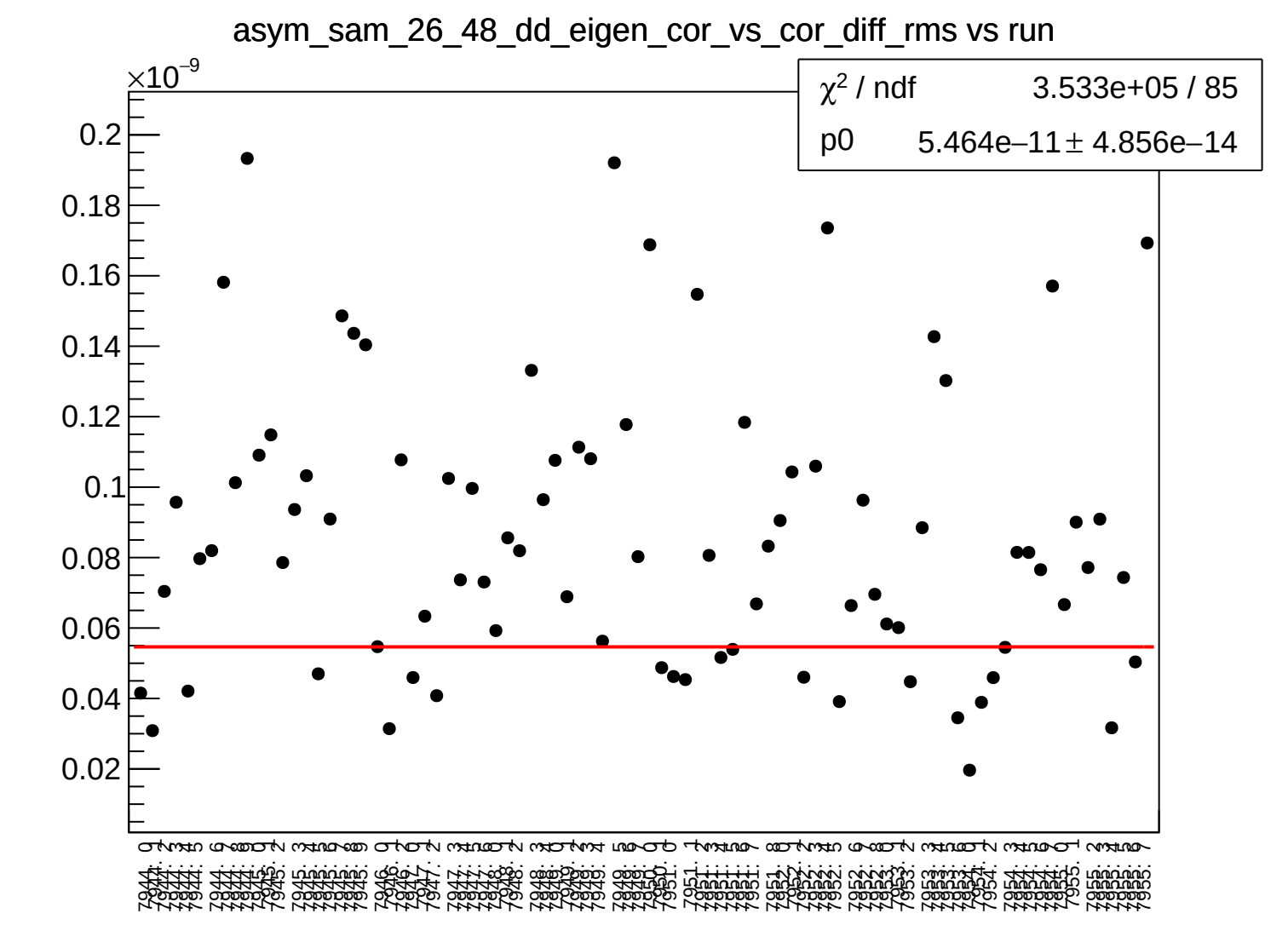

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.84 / 85
p0 0.1125 ± 0.07398
pull
Entries 86
Mean −91.88
Std Dev 0

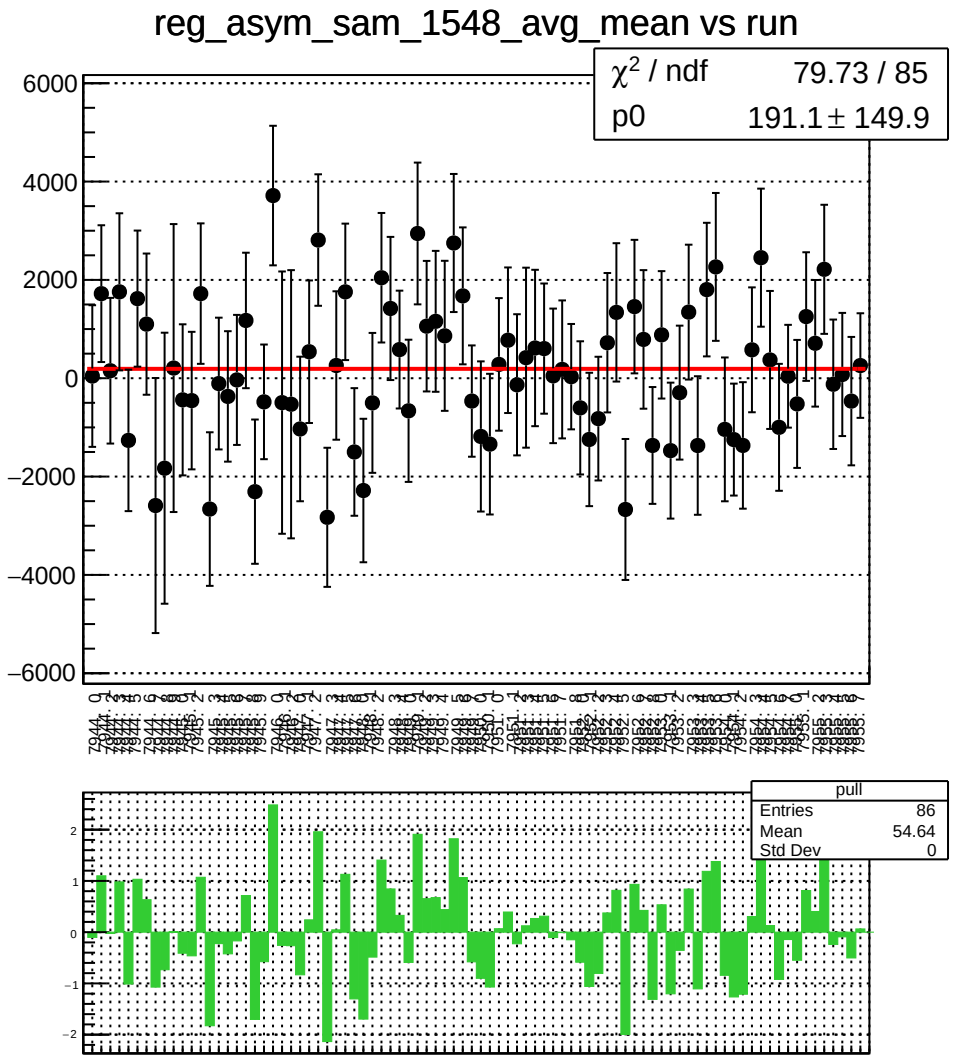

pull1D
Entries 86
Mean 0.02227
Std Dev 1.01

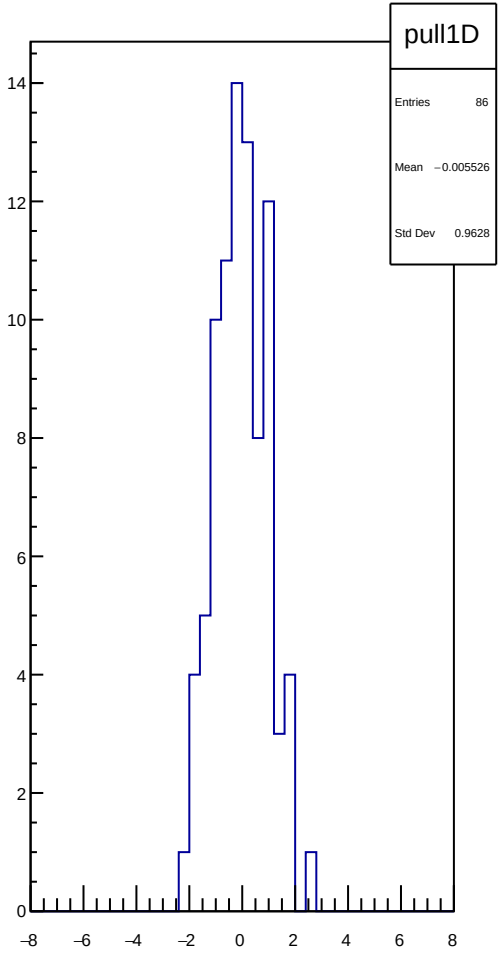

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.085e+04 / 85
p0 66.35 ± 0.05231
110
100
90
80
70
60

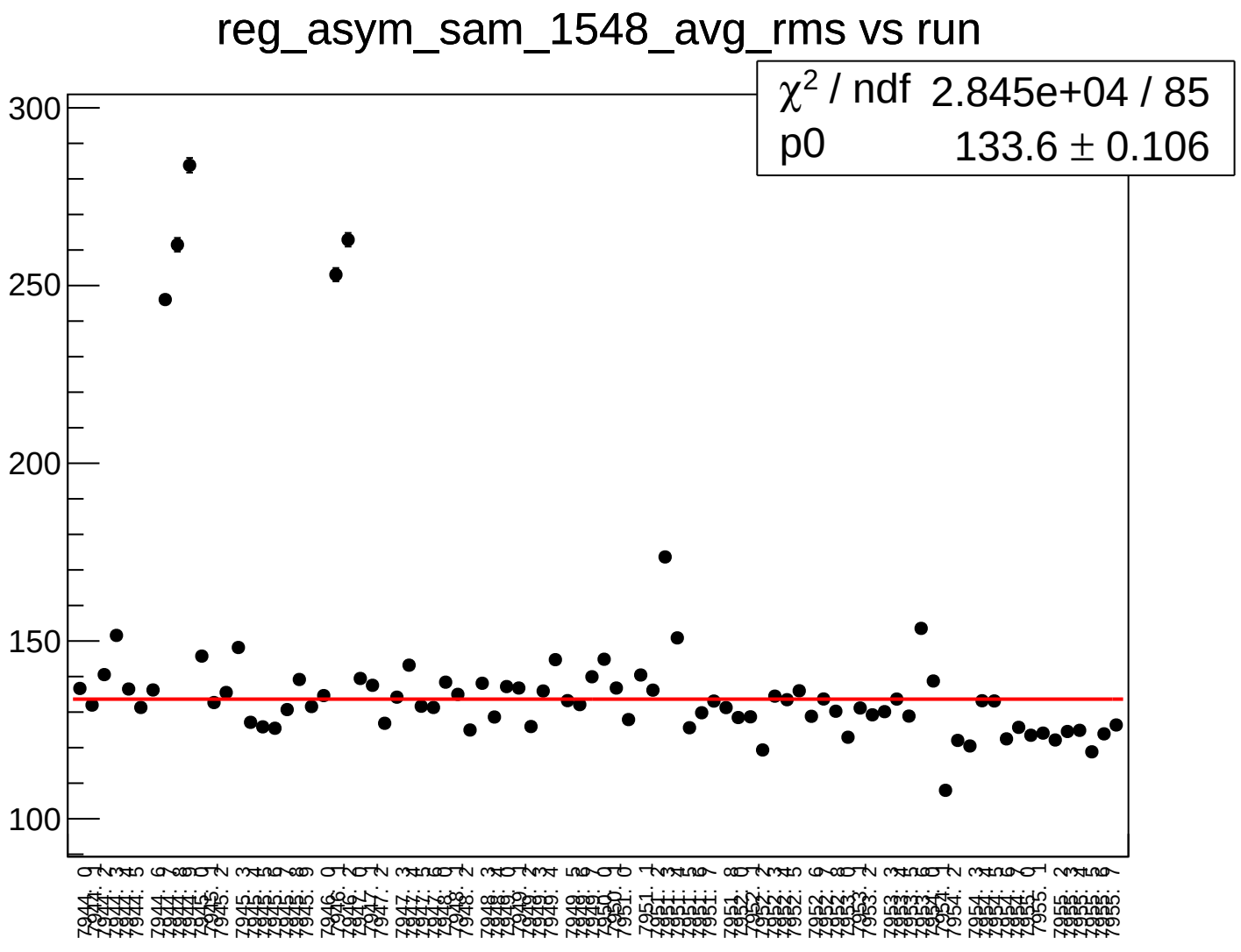

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.64 / 85
p0 9.006e−14 ± 6.868e−14
pull
Entries 86
Mean 71.69
Std Dev 27.24

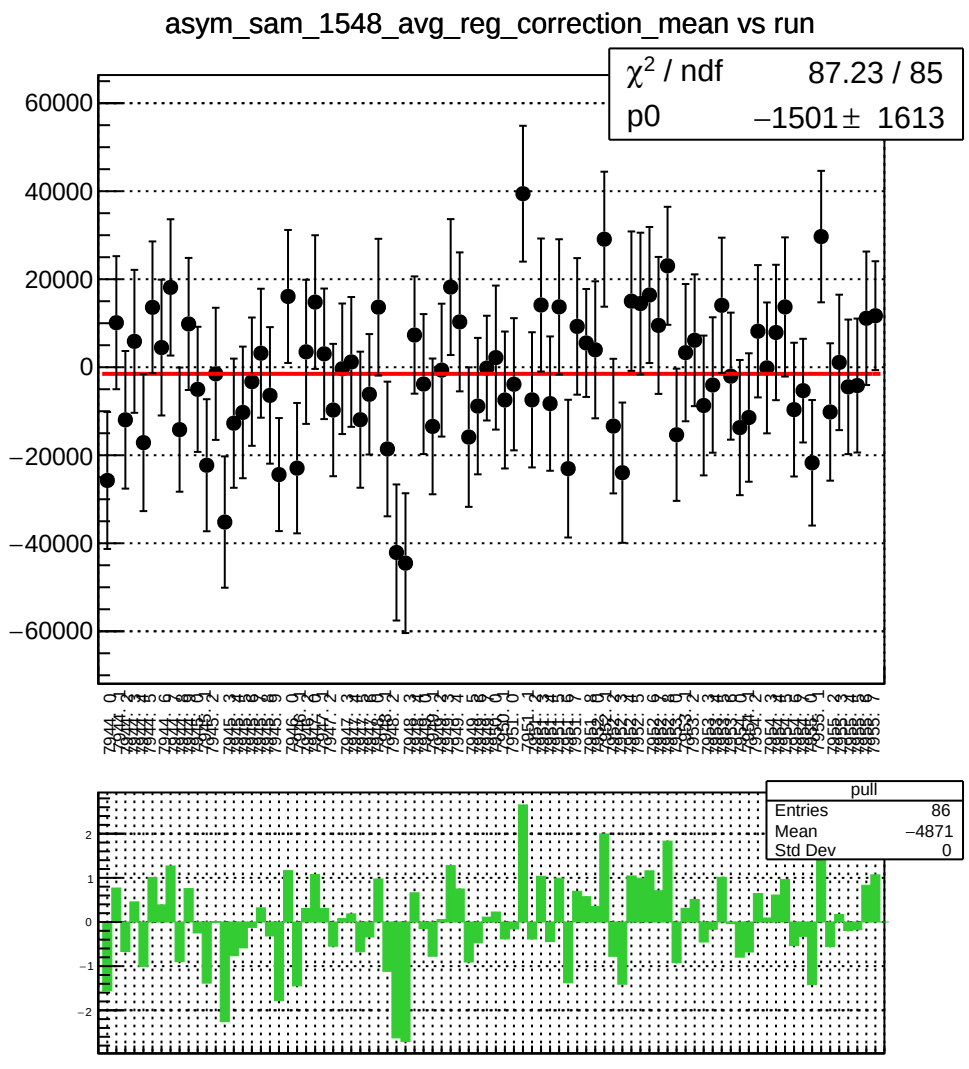

pull1D
Entries 86
Mean 0.06204
Std Dev 0.8847

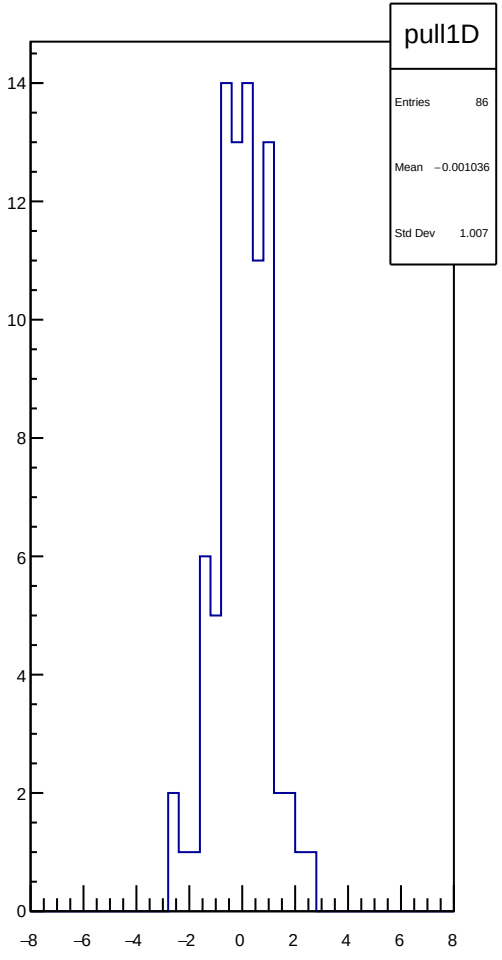

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.533e+05 / 85
p0 5.464e−11 ± 4.856e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

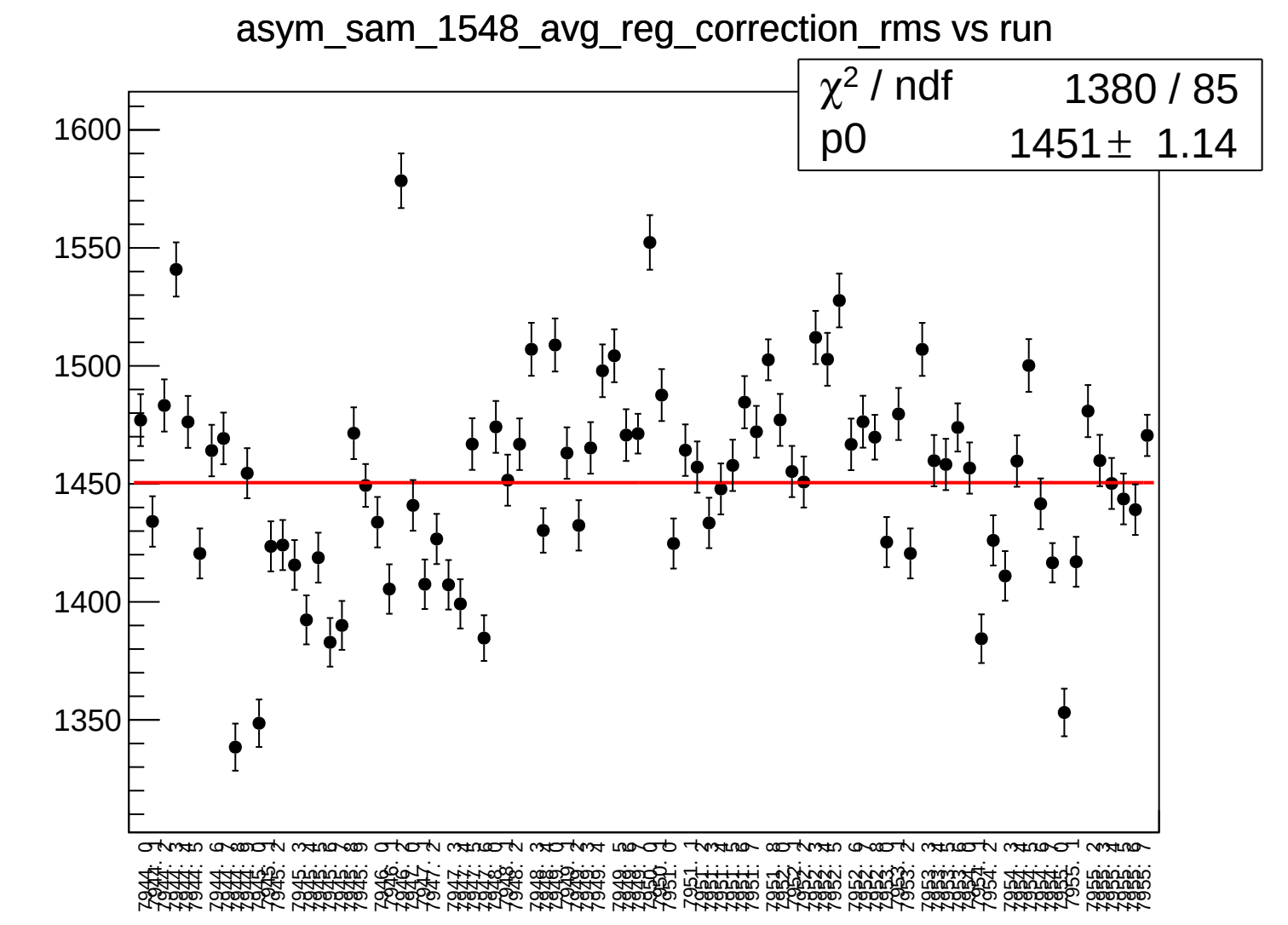

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 79.73 / 85
p0 191.1 ± 149.9
pull
Entries 86
Mean 54.64
Std Dev 0

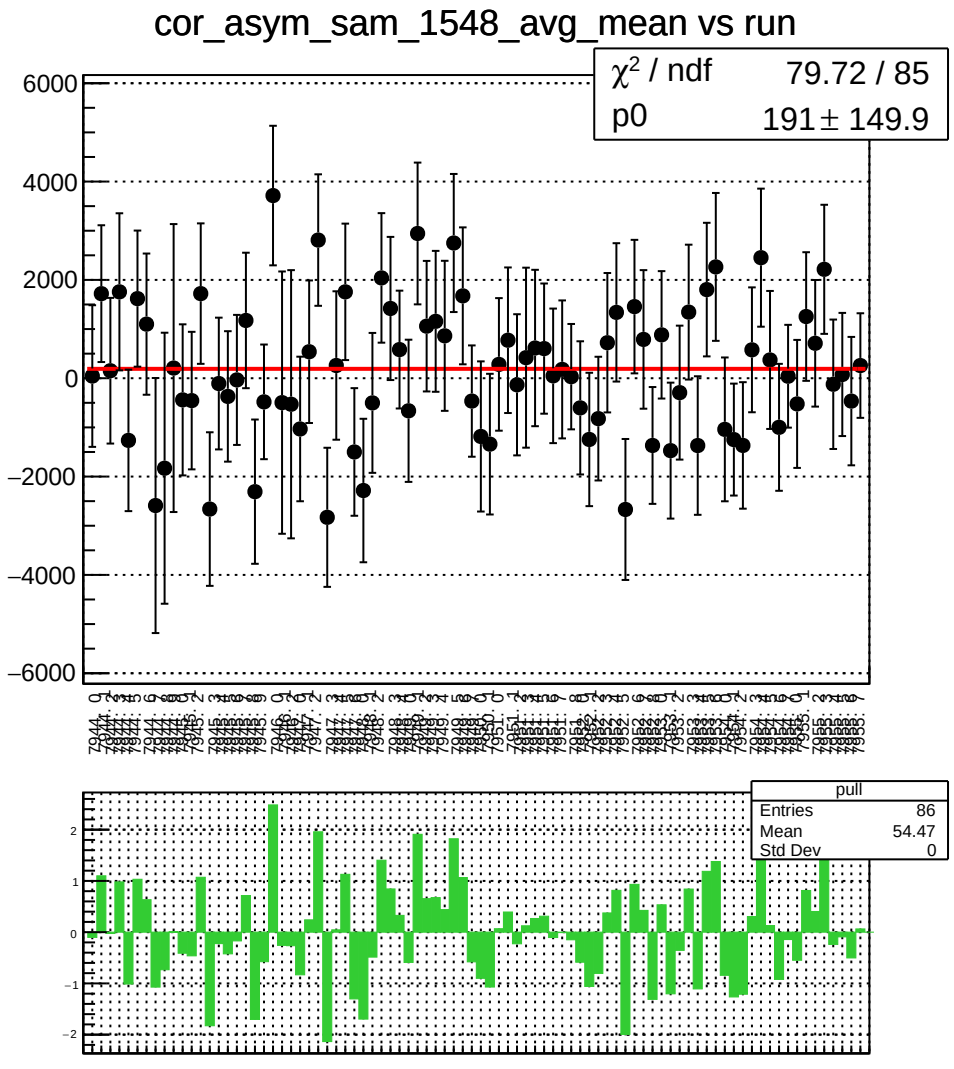

pull1D
Entries 86
Mean −0.005526
Std Dev 0.9628

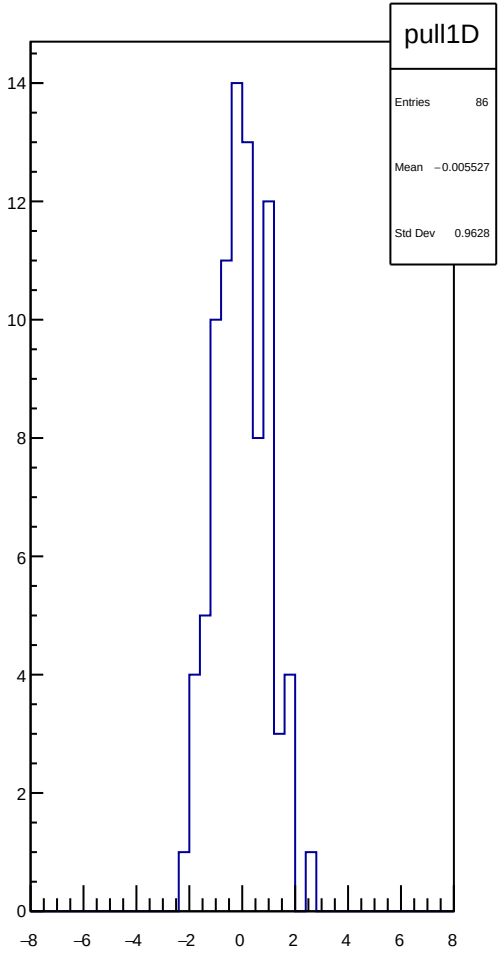

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 2.845e+04 / 85
p0 133.6 ± 0.106
300
250
200
150
100

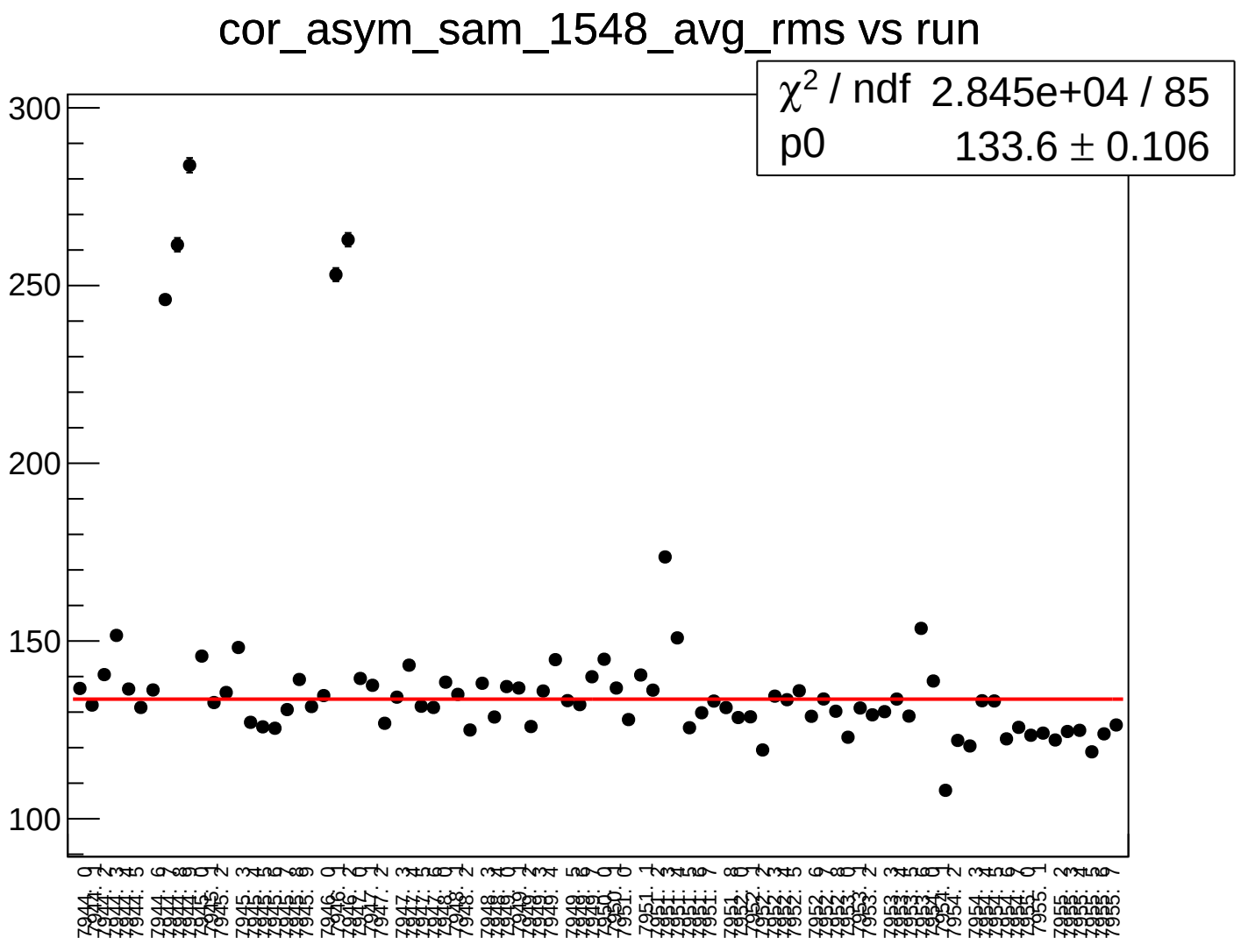

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 87.23 / 85
p0 −1501 ± 1613
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −4871
Std Dev 0
2
1
0
−1
−2

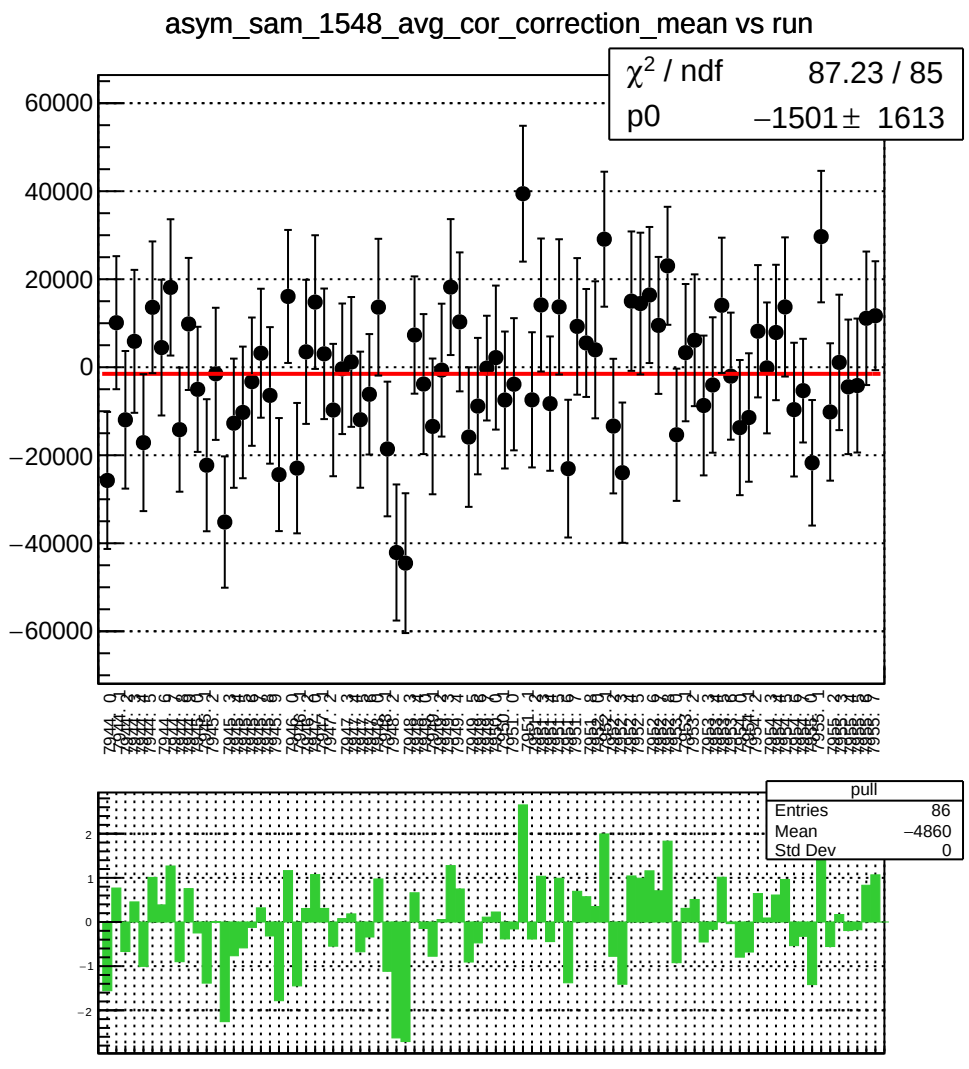

pull1D
Entries 86
Mean −0.001036
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

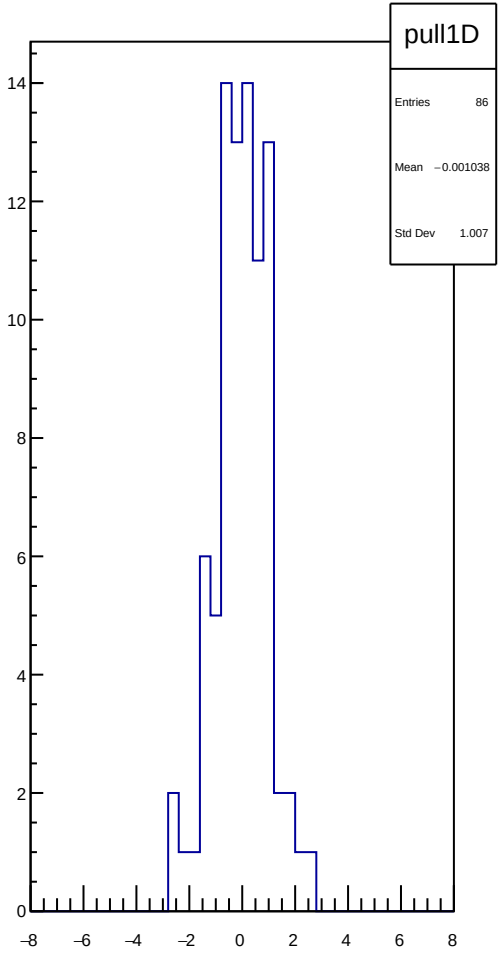

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1380 / 85
p0 1451 ± 1.14
1600
1550
1500
1450
1400
1350

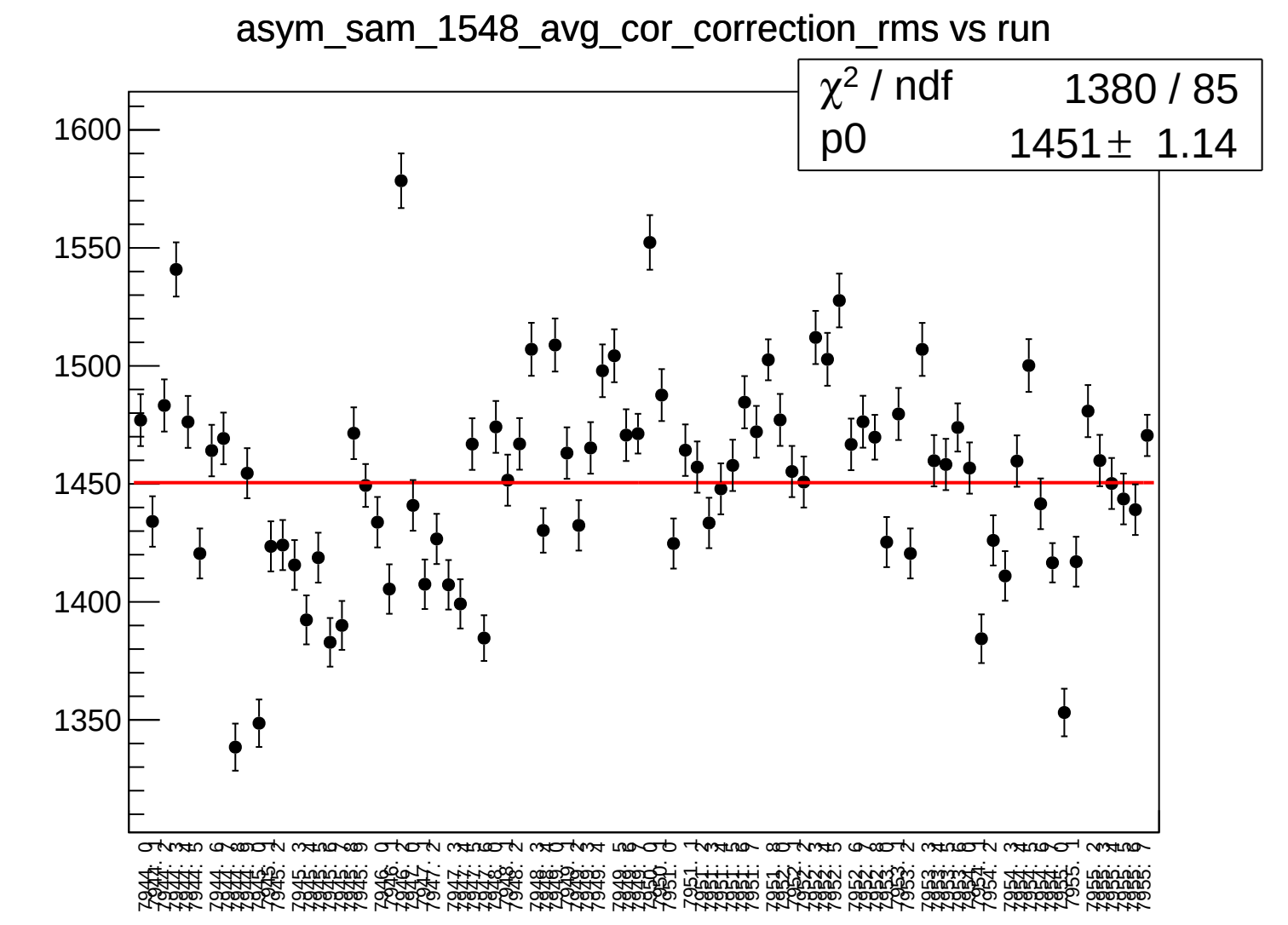

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 79.72 / 85
p0 191 ± 149.9
pull
Entries 86
Mean 54.47
Std Dev 0

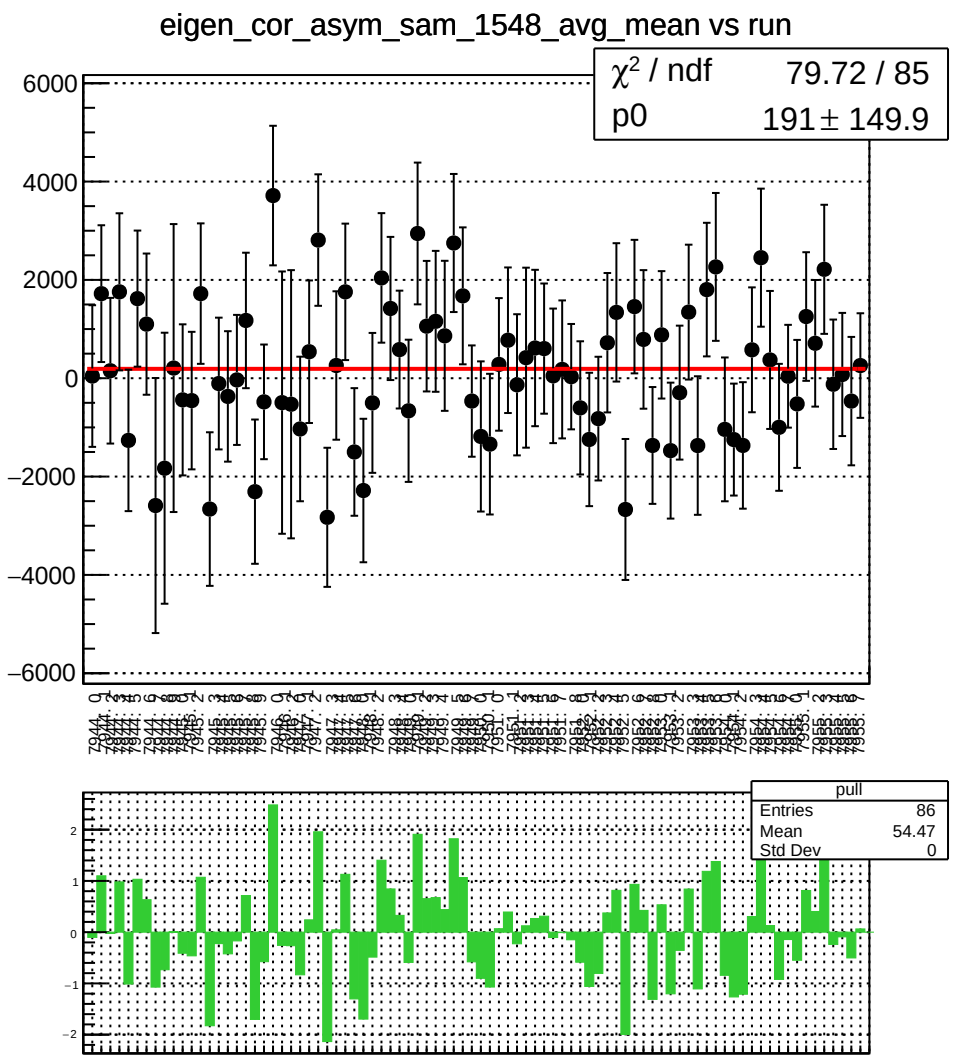

pull1D
Entries 86
Mean −0.005527
Std Dev 0.9628

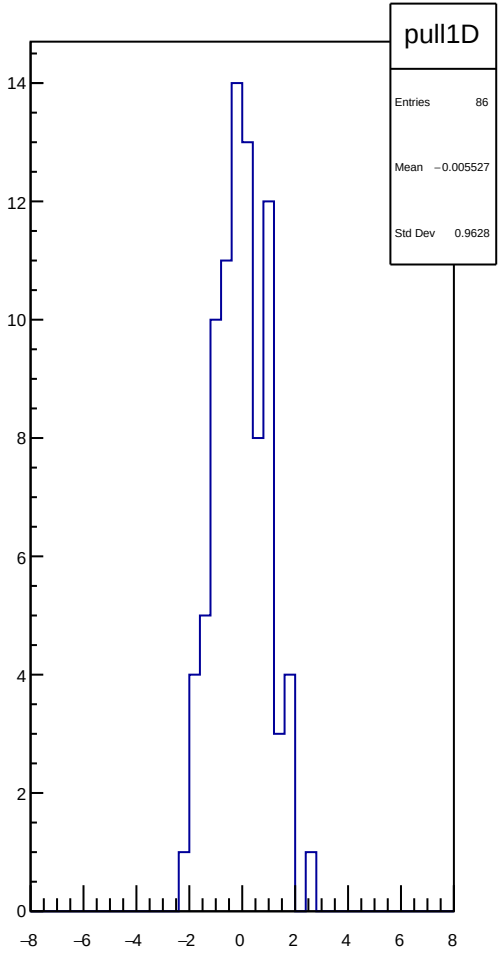

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 2.845e+04 / 85
p0 133.6 ± 0.106
300
250
200
150
100

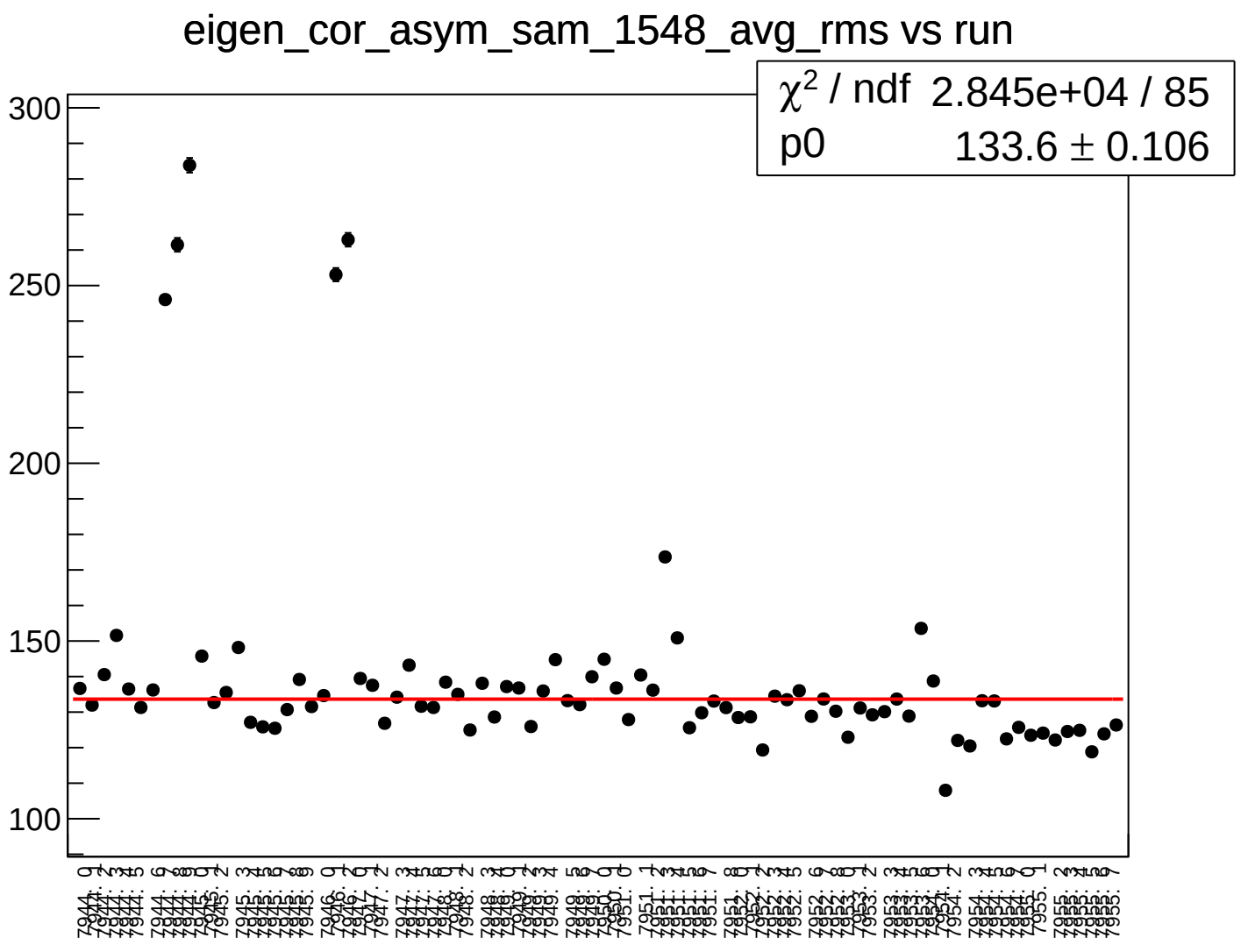

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 87.23 / 85
p0 −1501 ± 1613
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −4860
Std Dev 0
2
1
0
−1
−2

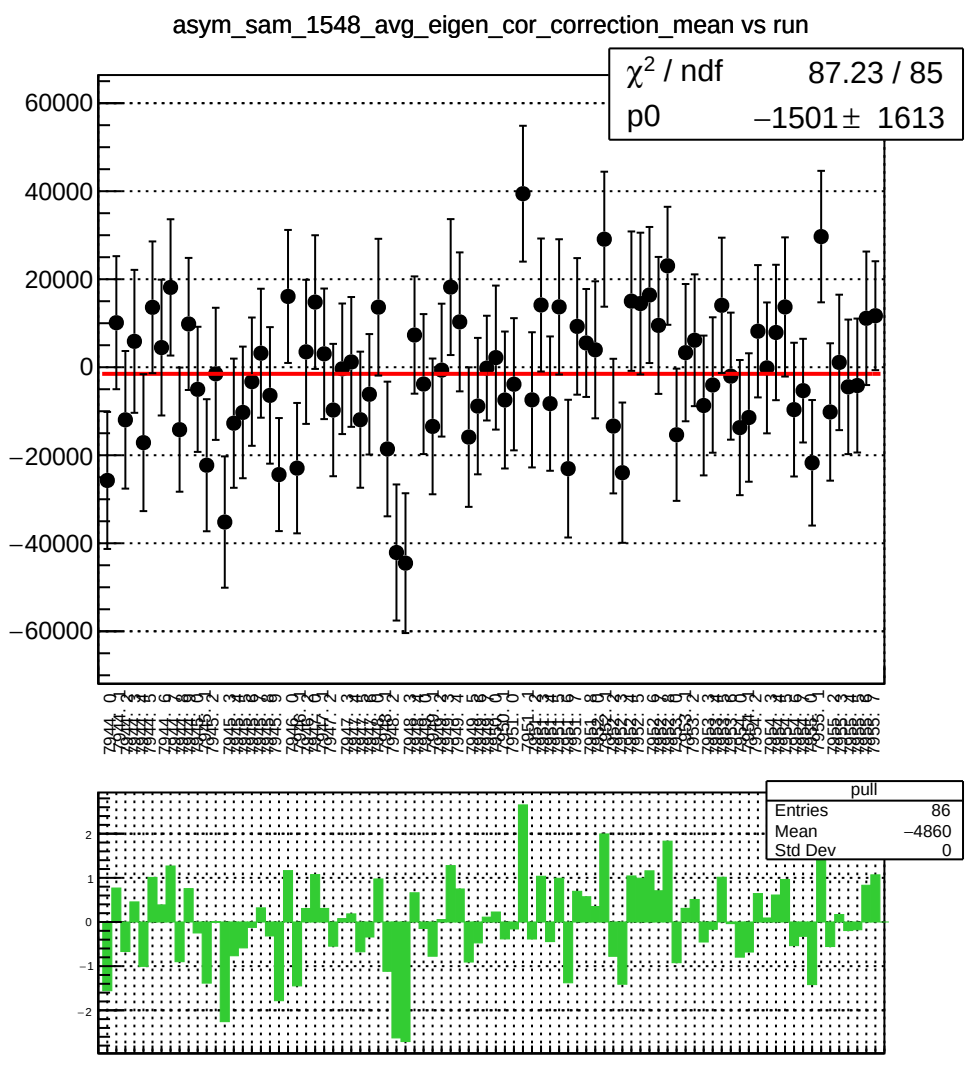

pull1D
Entries 86
Mean −0.001038
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

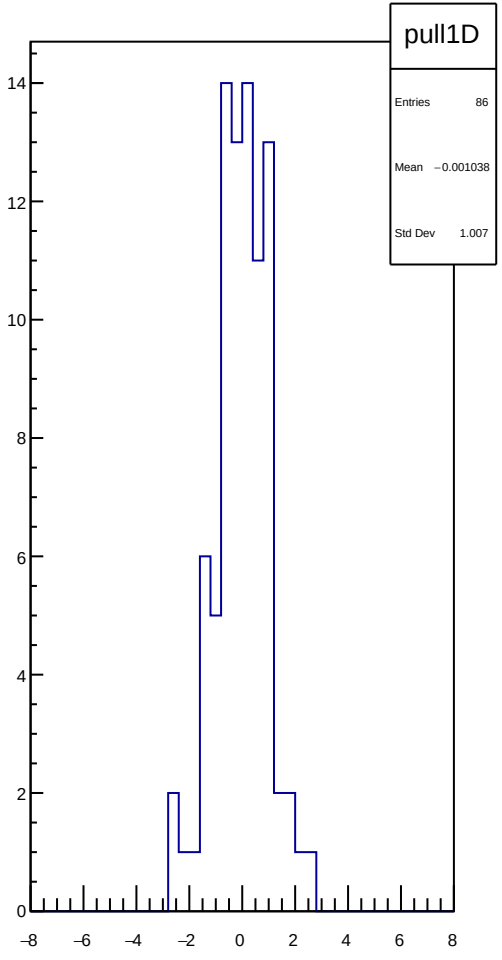

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1380 / 85
p0 1451 ± 1.14
1600
1550
1500
1450
1400
1350

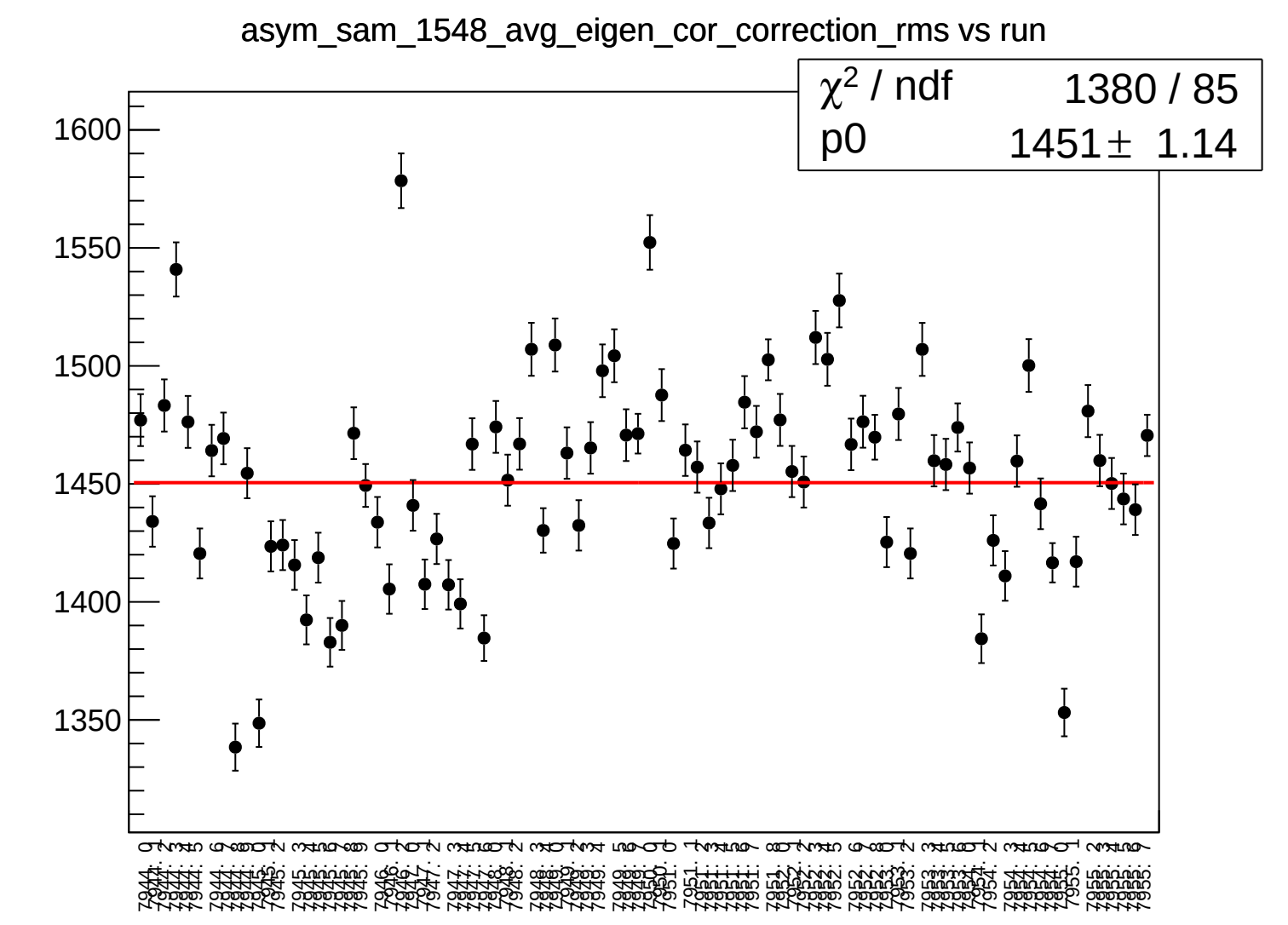

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 79.72 / 85
p0 191 ± 149.9
pull
Entries 86
Mean 54.47
Std Dev 0

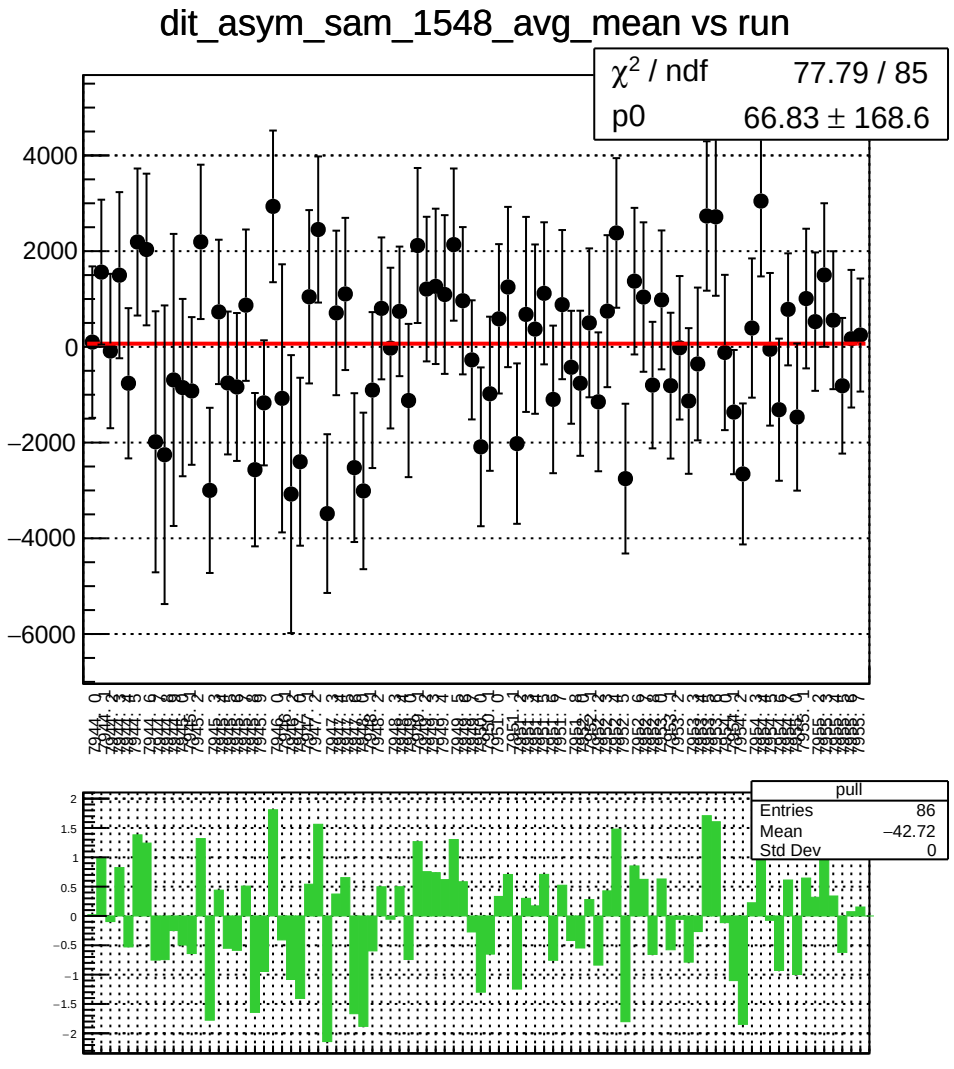

pull1D
Entries 86
Mean −0.005527
Std Dev 0.9628

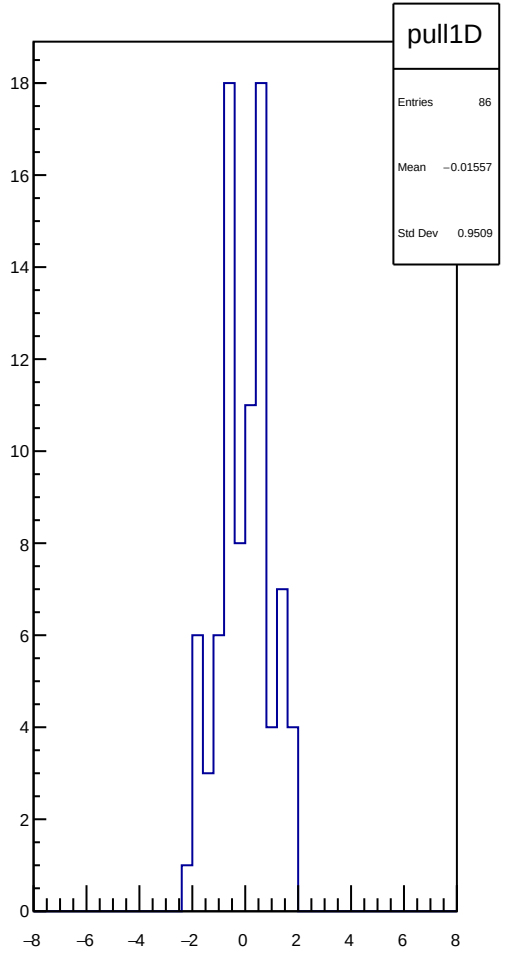

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 2.845e+04 / 85
p0 133.6 ± 0.106
300
250
200
150
100

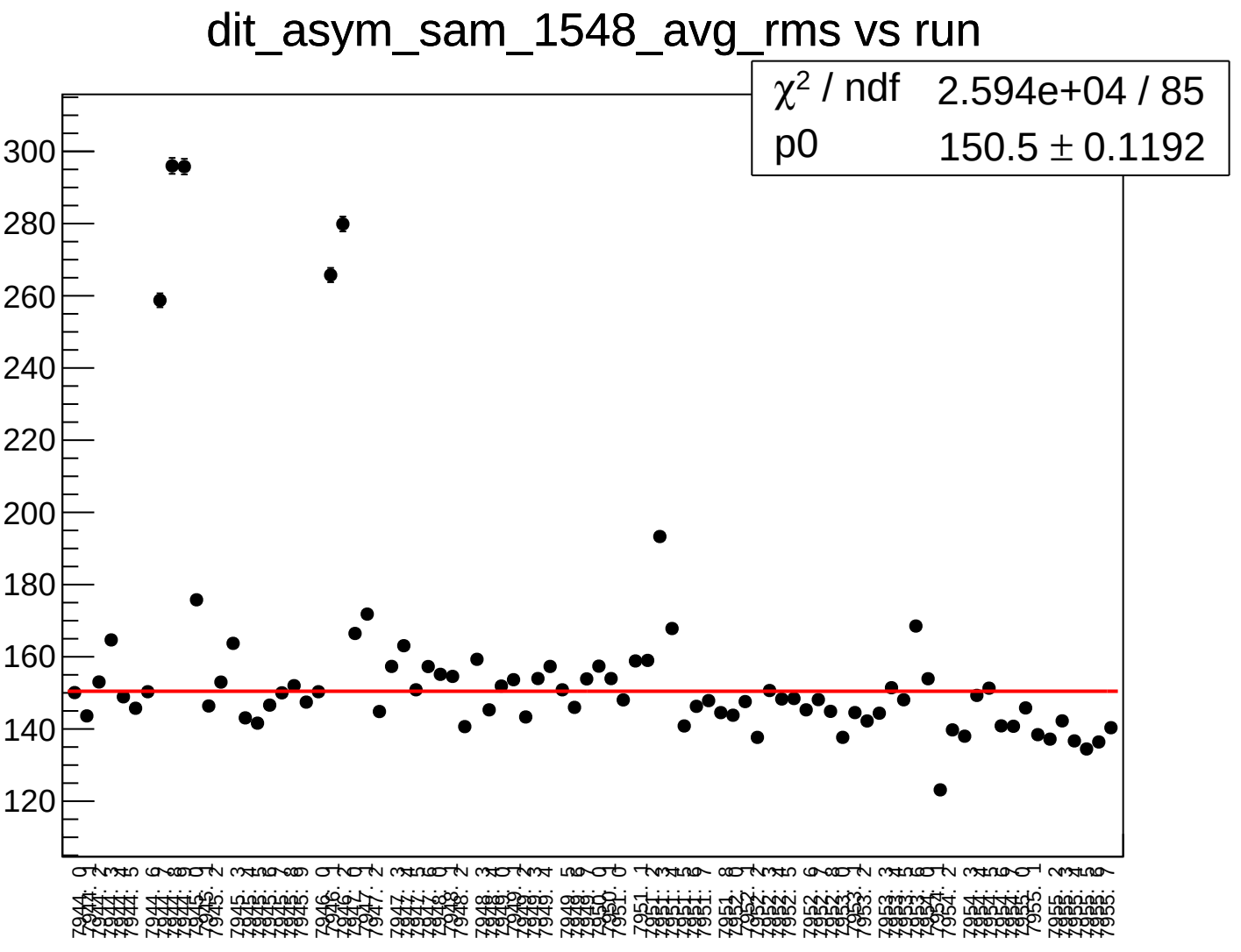

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.23 / 85
p0 −1501 ± 1613
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −4860
Std Dev 0
2
1
0
−1
−2

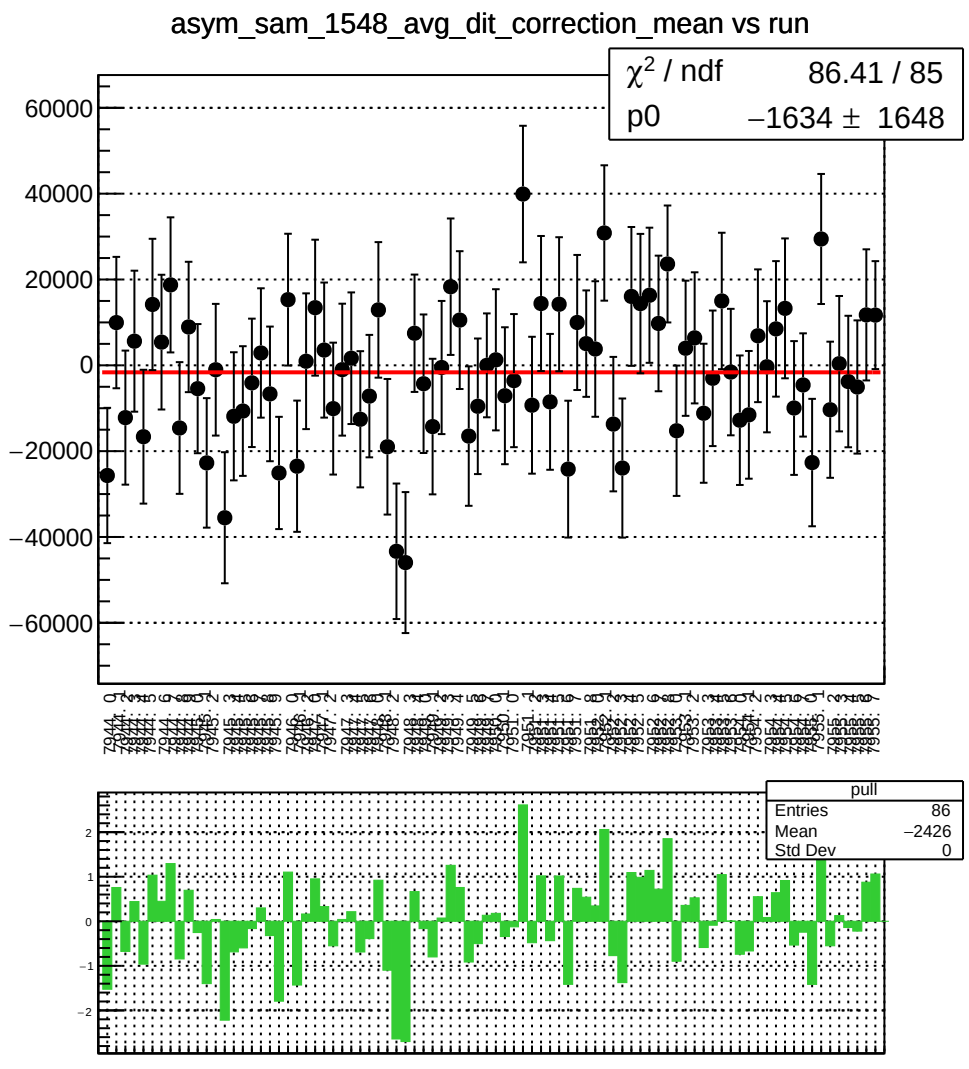

pull1D
Entries 86
Mean −0.001038
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

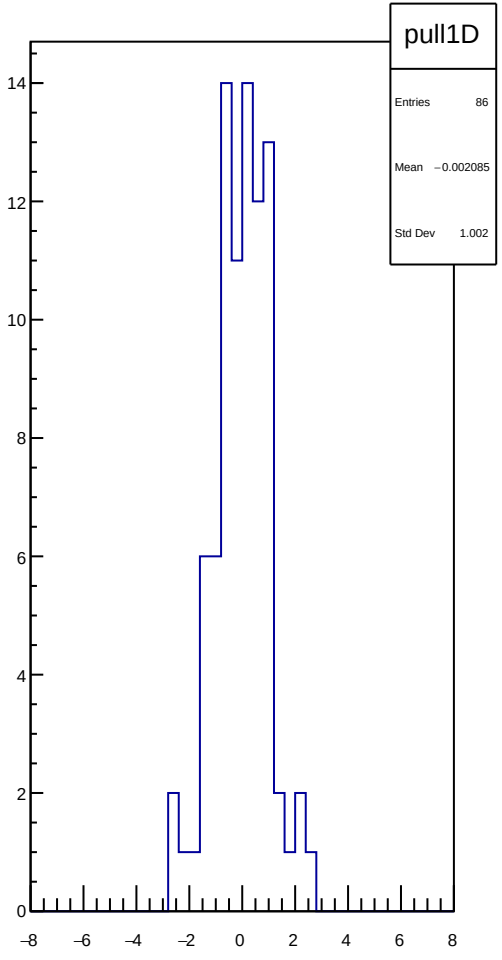

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1380 / 85
p0 1451 ± 1.14
1600
1550
1500
1450
1400
1350

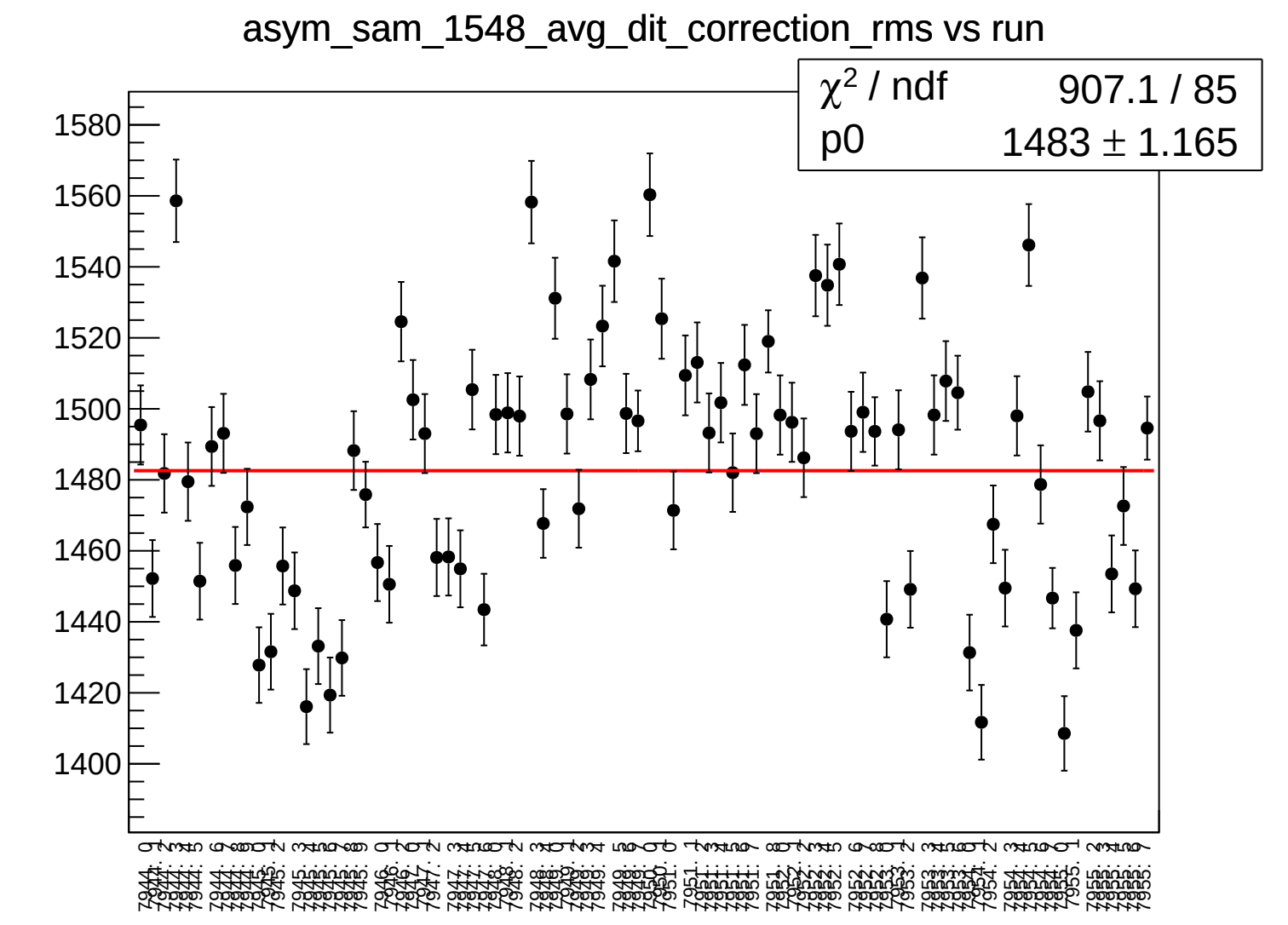

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 77.79 / 85
p0 66.83 ± 168.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −42.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

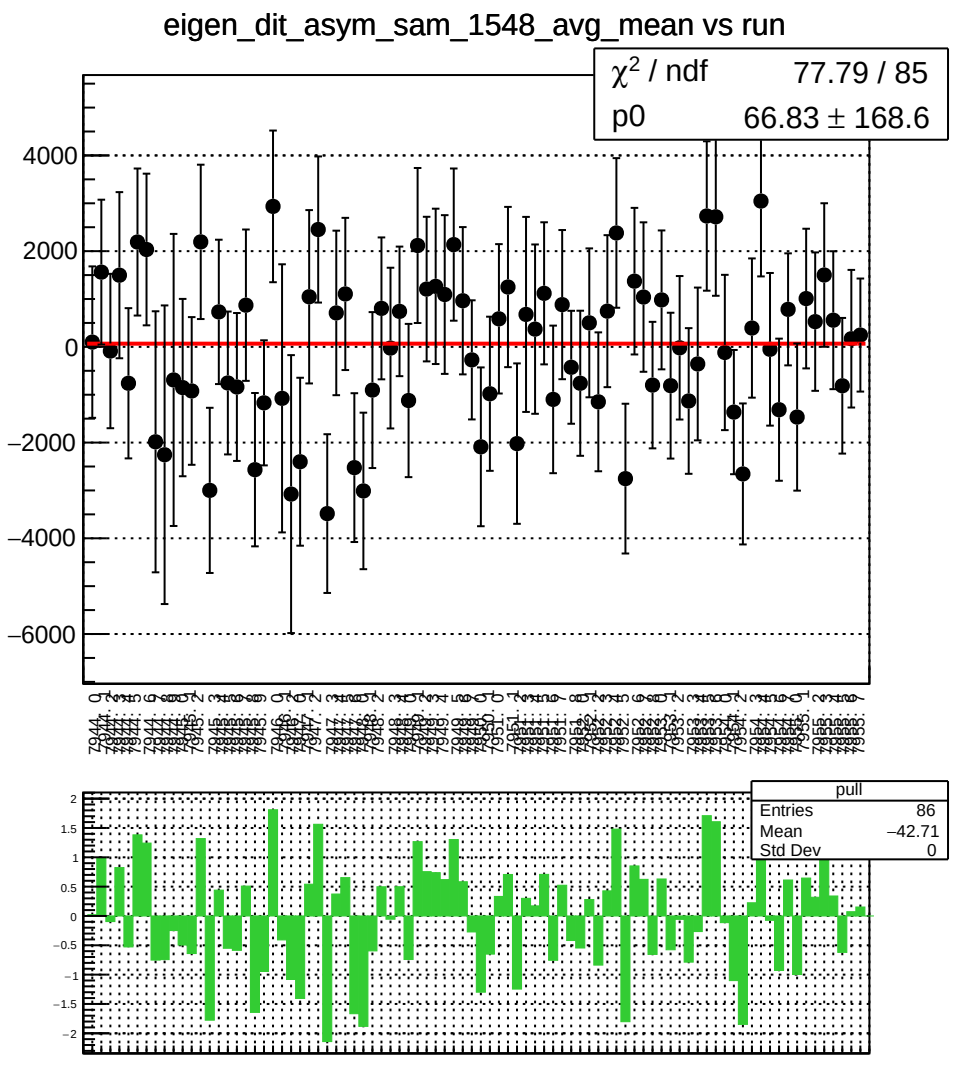

pull1D
Entries 86
Mean −0.01557
Std Dev 0.9509
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

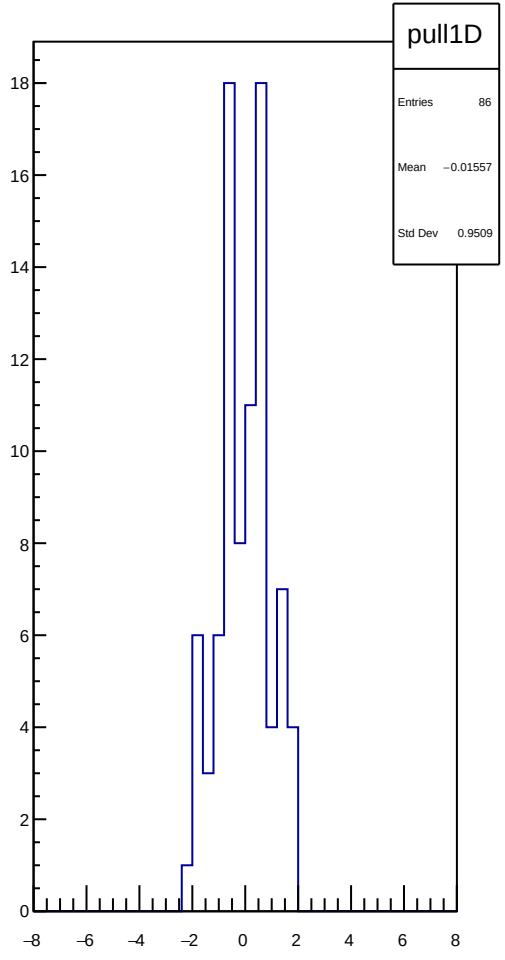

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.594e+04 / 85
p0 150.5 ± 0.1192
300
280
260
240
220
200
180
160
140
120

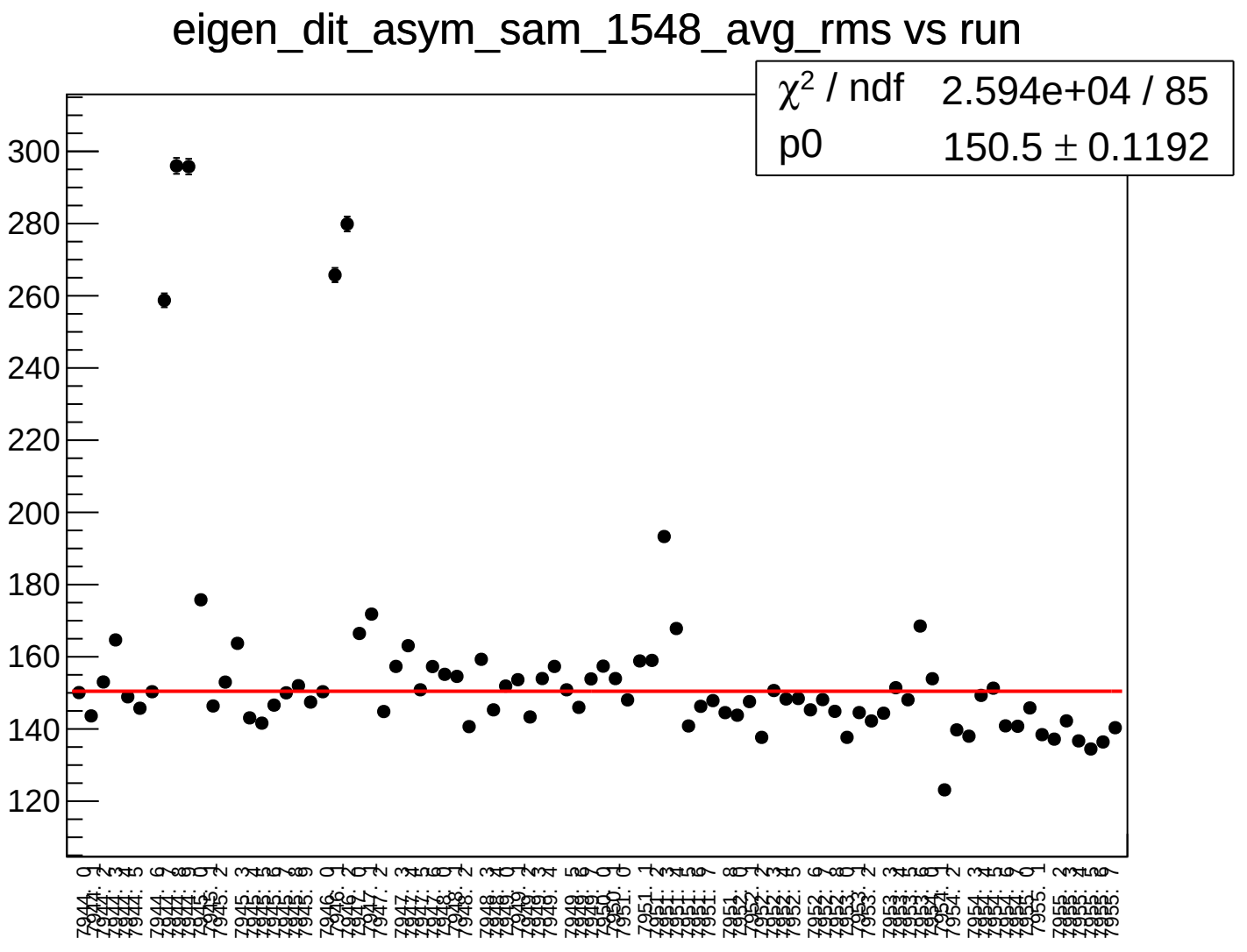

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 86.41 / 85
p0 −1634 ± 1648
pull
Entries 86
Mean −2426
Std Dev 0

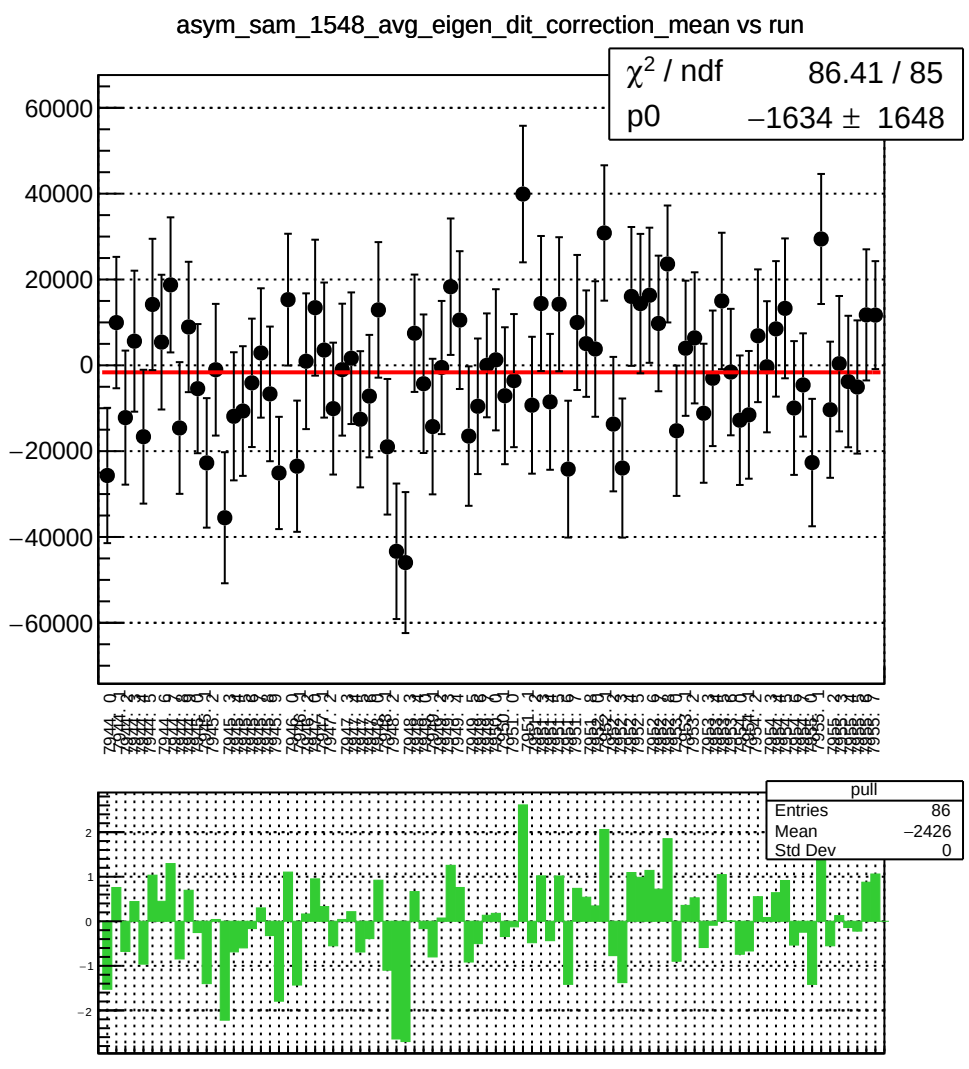

pull1D
Entries 86
Mean −0.002085
Std Dev 1.002

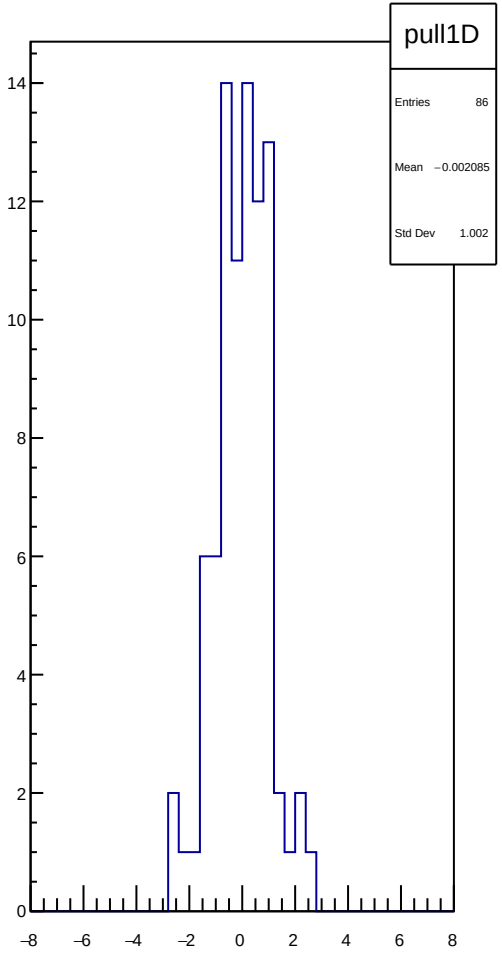

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 907.1 / 85
p0 1483 ± 1.165
1580
1560
1540
1520
1500
1480
1460
1440
1420
1400

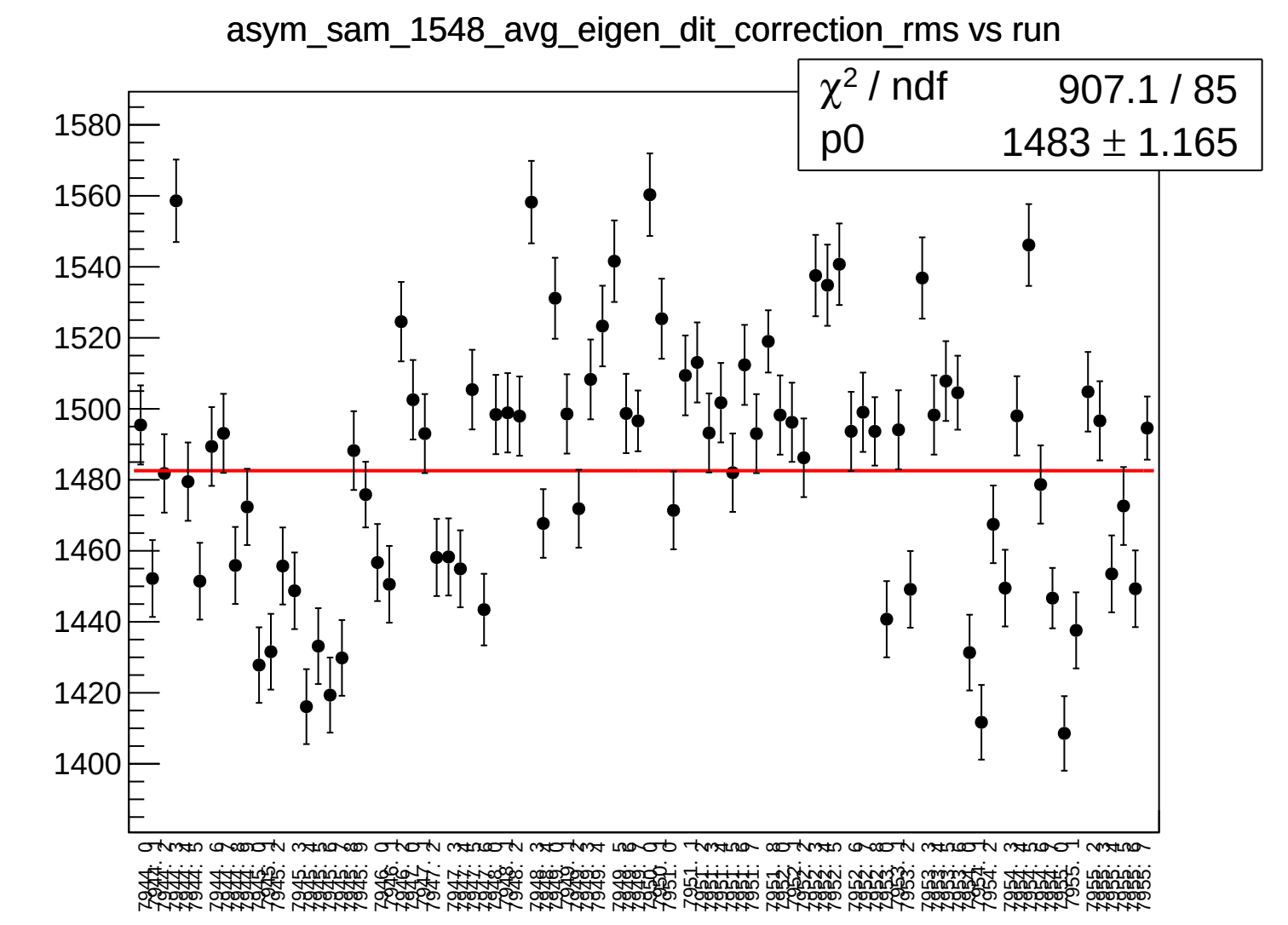

eigen_dit_asym_sam_1548_avg_mean vs run
χ^2 / ndf 77.79 / 85
p0 66.83 ± 168.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −42.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

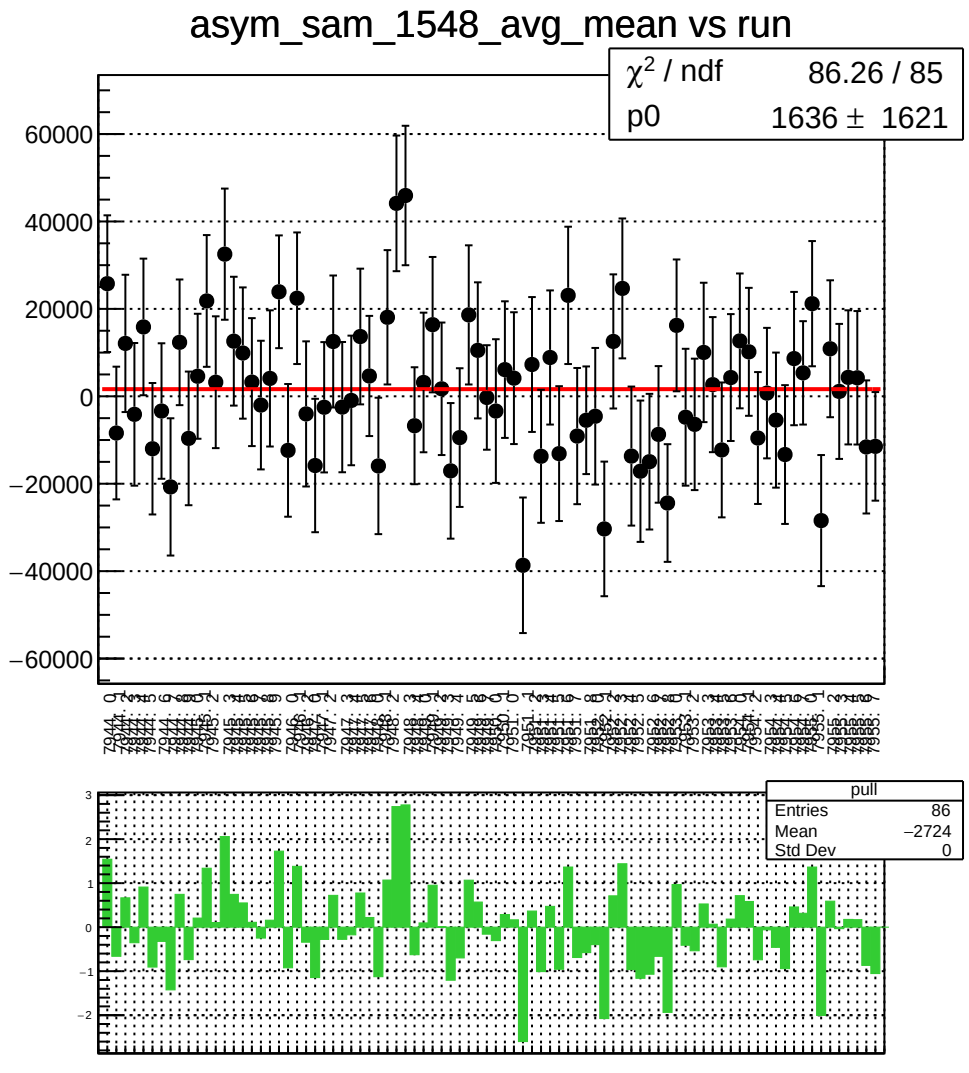

pull1D
Entries 86
Mean −0.01557
Std Dev 0.9509
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

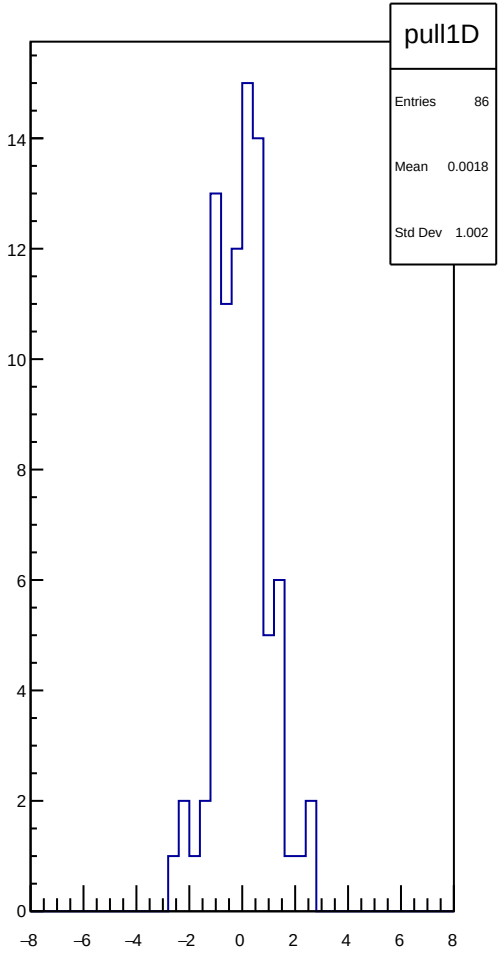

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.594e+04 / 85
p0 150.5 ± 0.1192
300
280
260
240
220
200
180
160
140
120

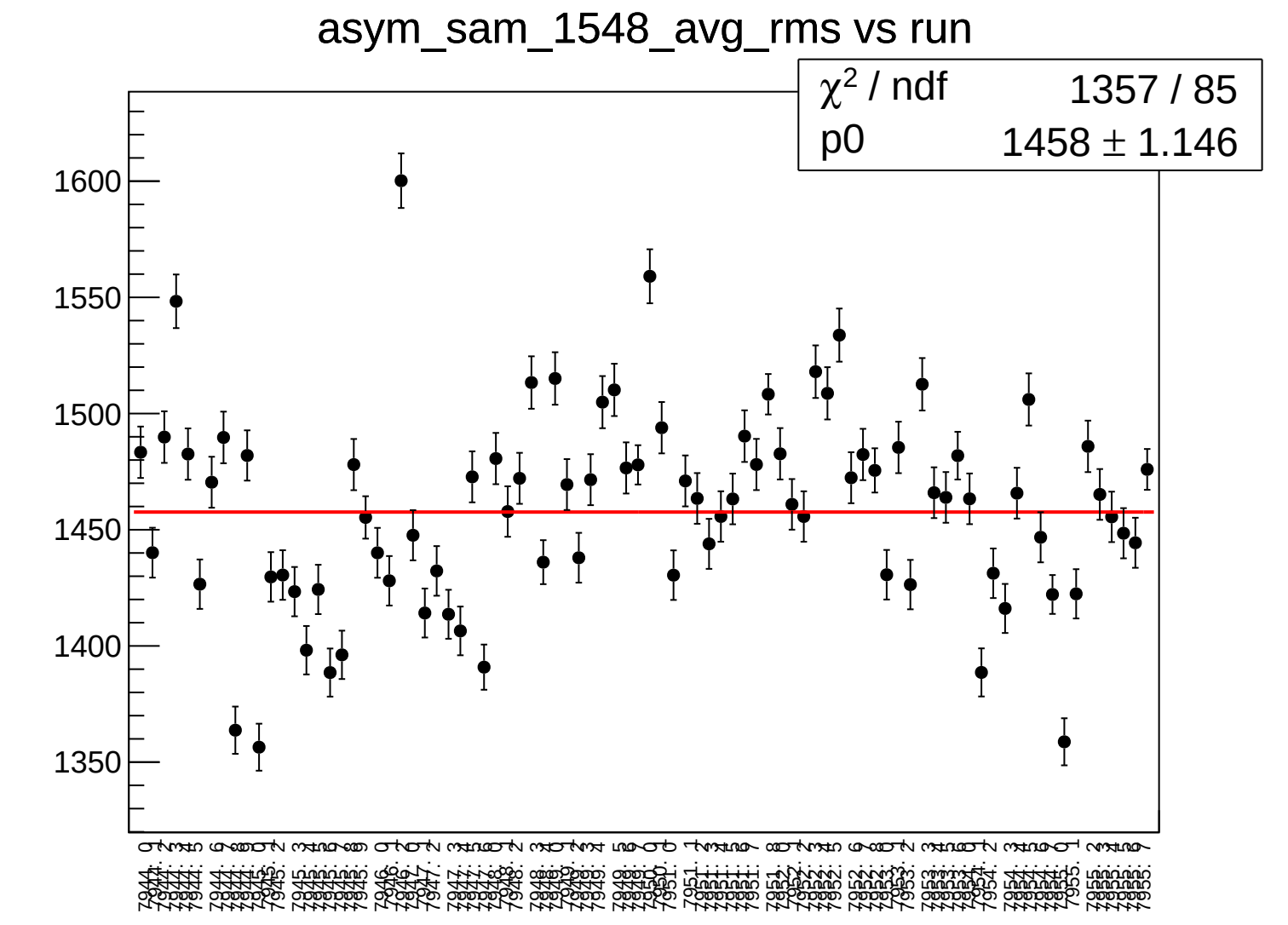

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.41 / 85
p0 −1634 ± 1648
pull
Entries 86
Mean −2426
Std Dev 0

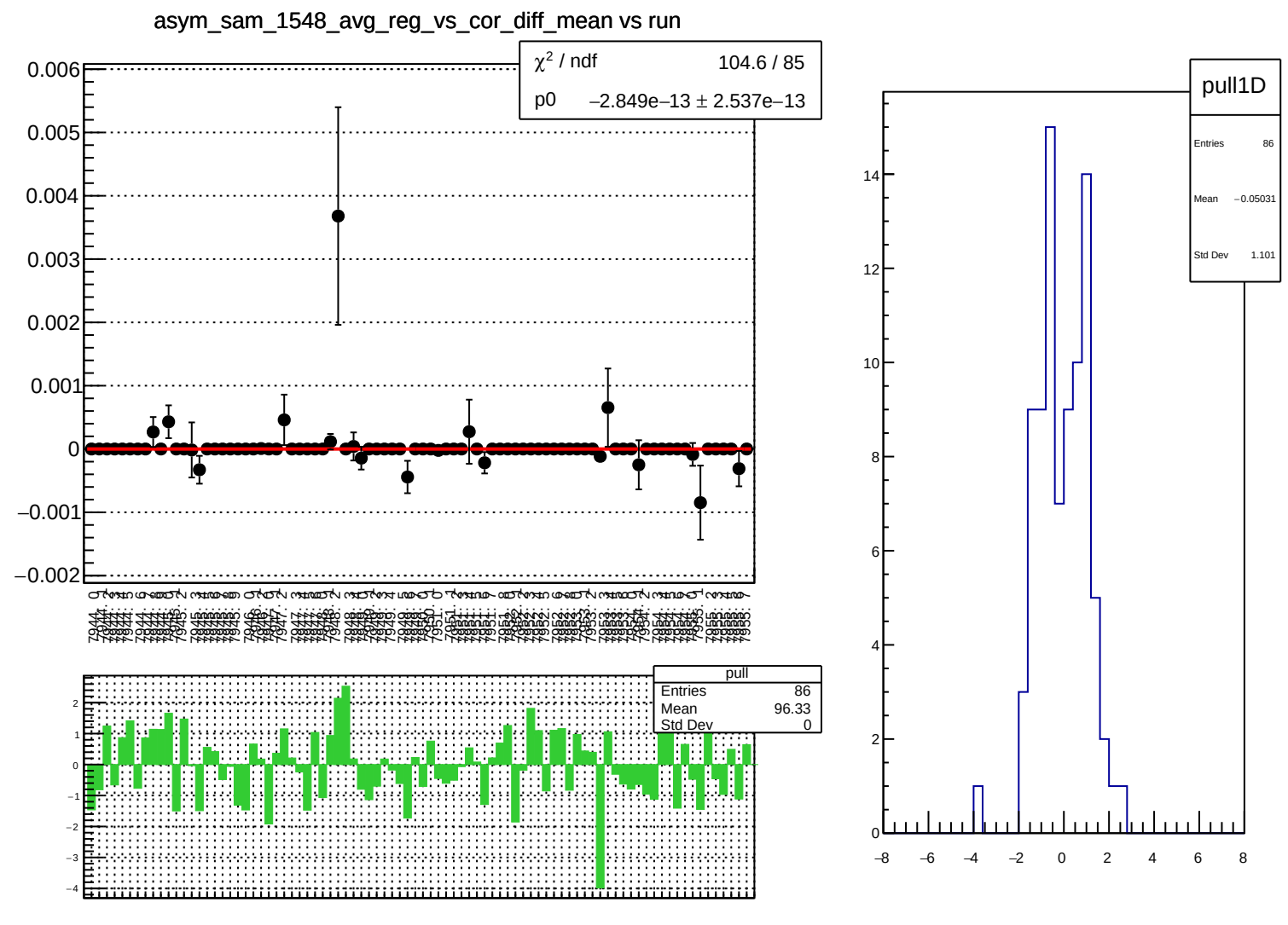

pull1D
Entries 86
Mean −0.002085
Std Dev 1.002

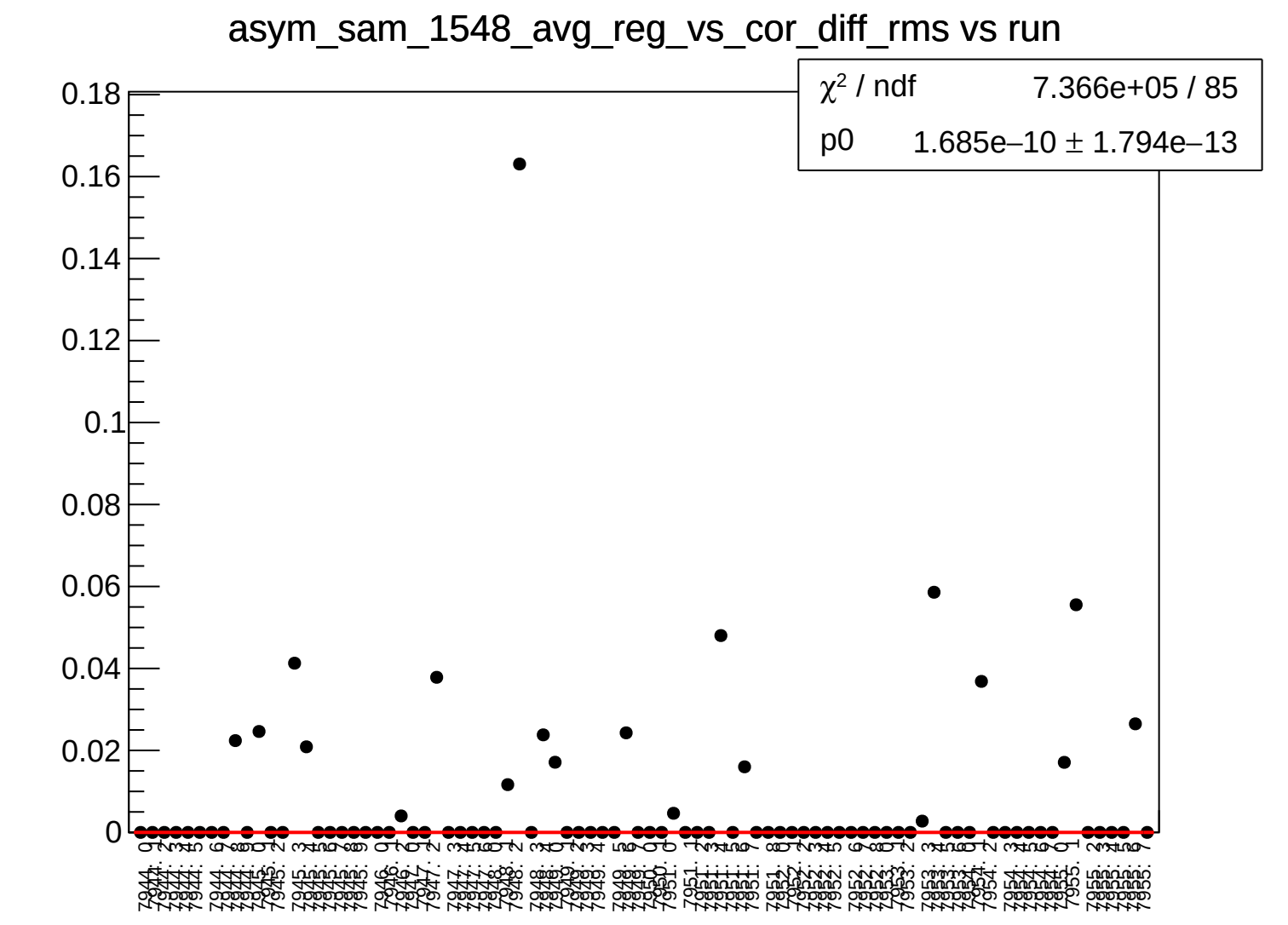

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 907.1 / 85
p0 1483 ± 1.165
1580
1560
1540
1520
1500
1480
1460
1440
1420
1400

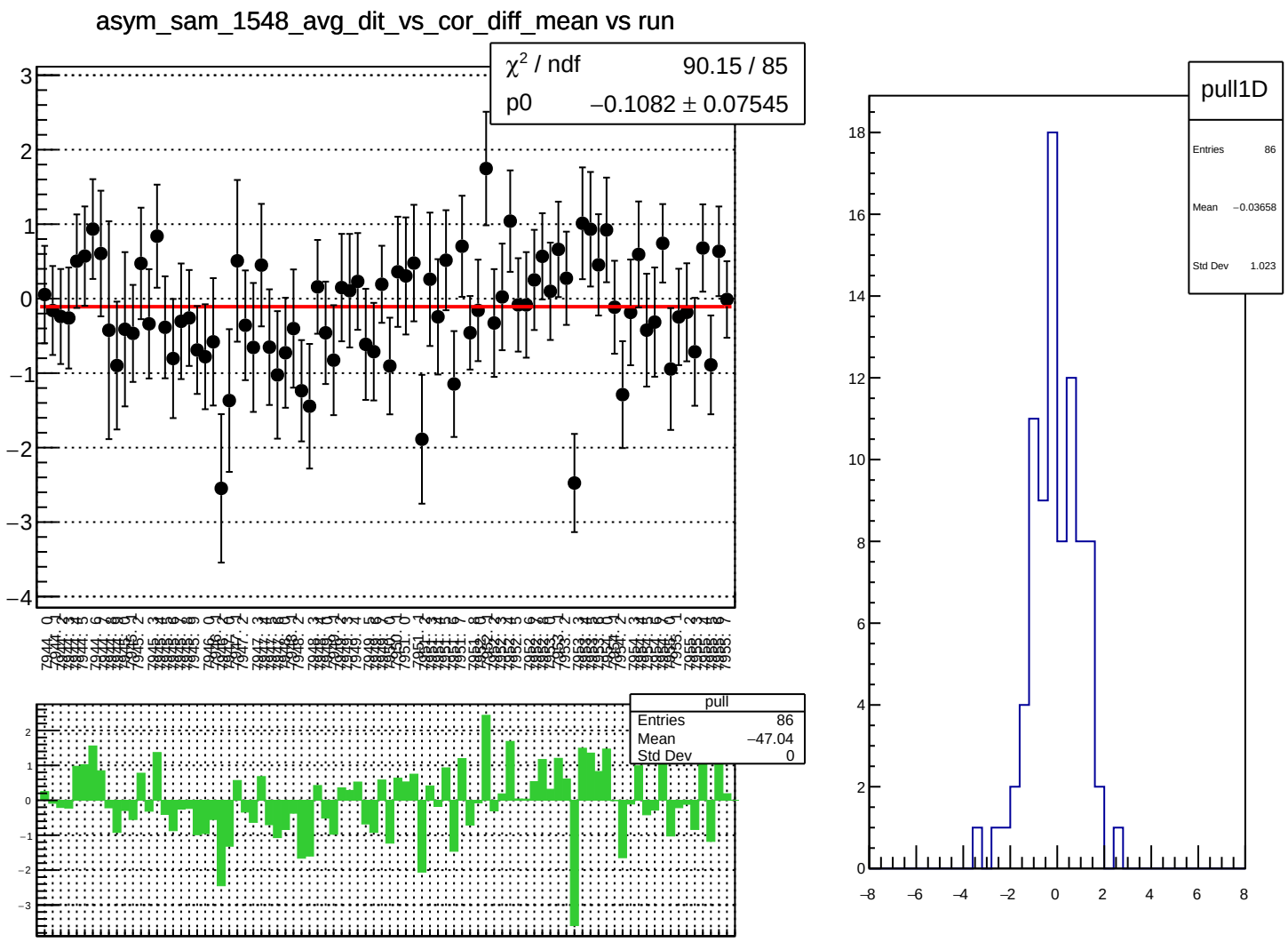

asym_sam_1548_avg_mean vs run
χ² / ndf 86.26 / 85
p0 1636 ± 1621
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −2724
Std Dev 0
3
2
1
0
−1
−2

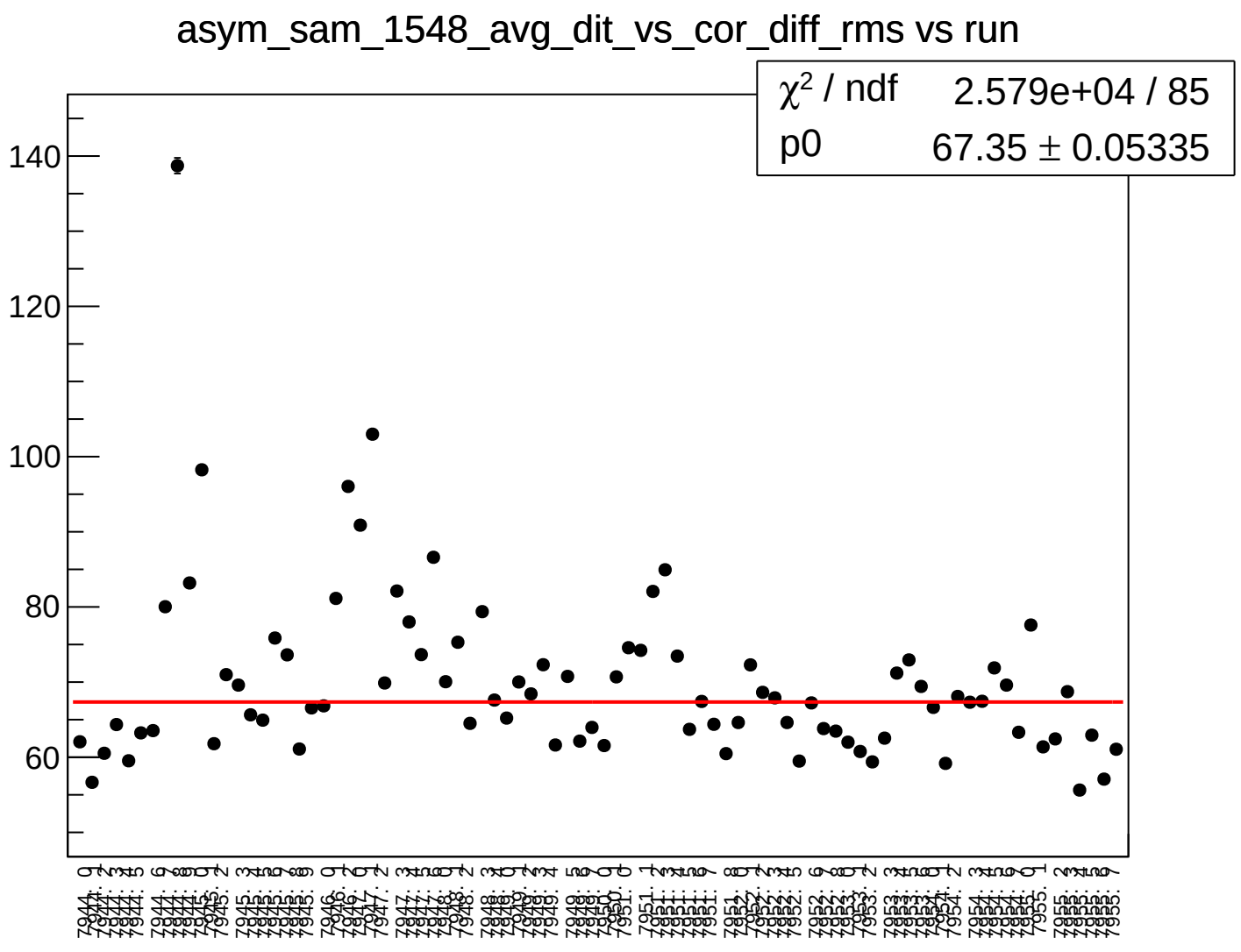

pull1D
Entries 86
Mean 0.0018
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

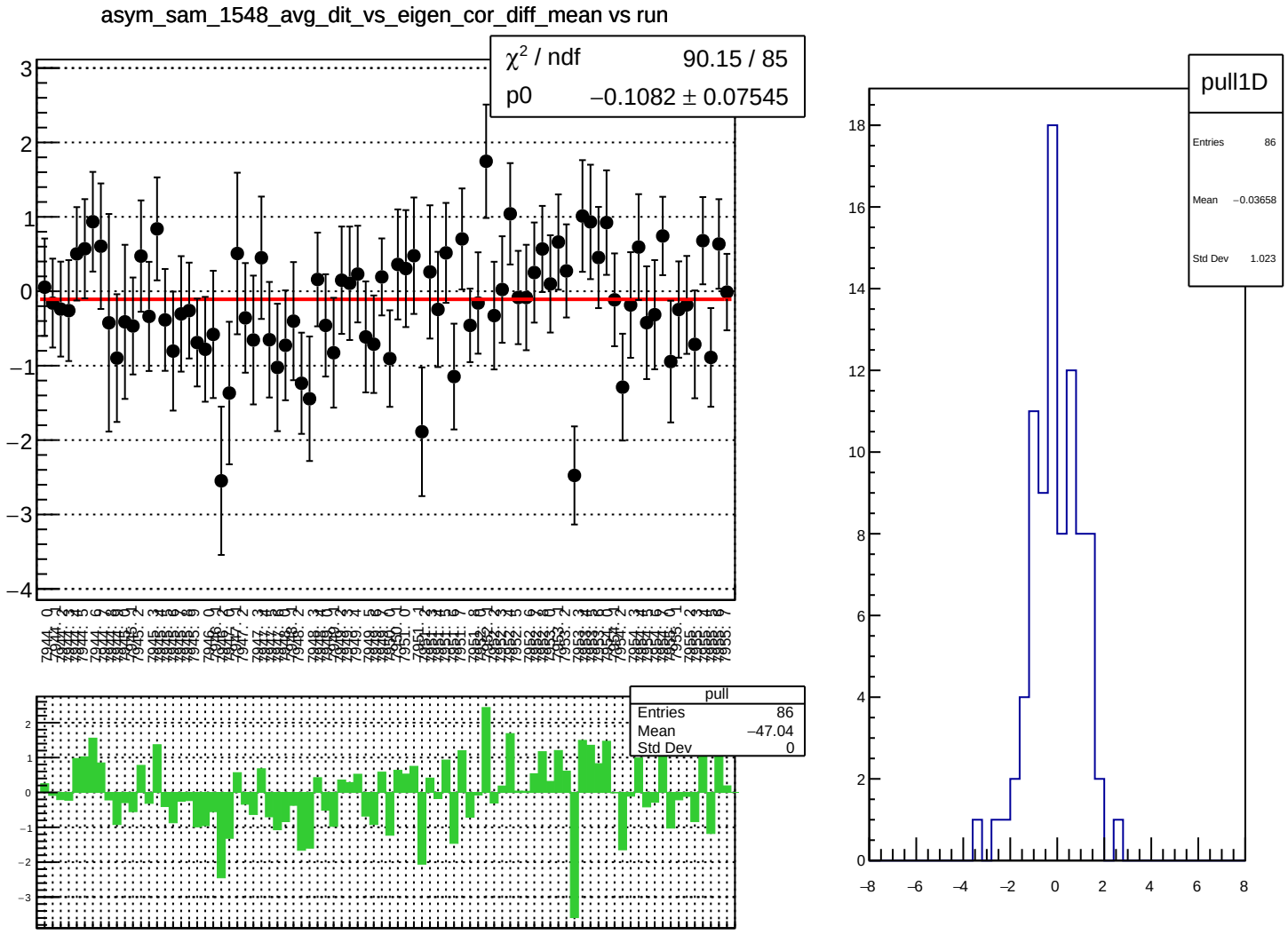

asym_sam_1548_avg_rms vs run
χ² / ndf 1357 / 85
p0 1458 ± 1.146
1600
1550
1500
1450
1400
1350

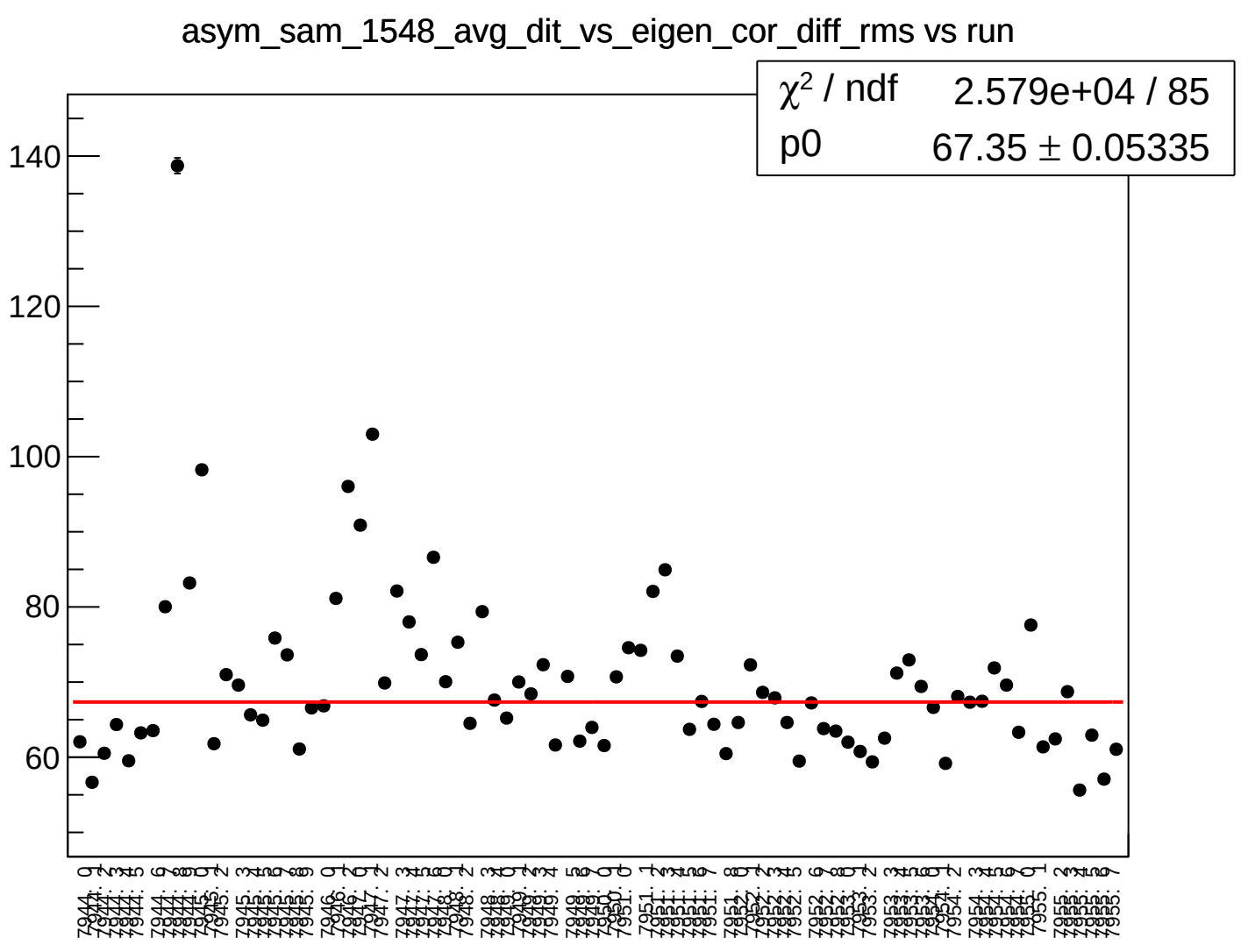

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 85
p0 −2.849e−13 ± 2.537e−13
pull
Entries 86
Mean 96.33
Std Dev 0
pull1D
Entries 86
Mean −0.05031
Std Dev 1.101

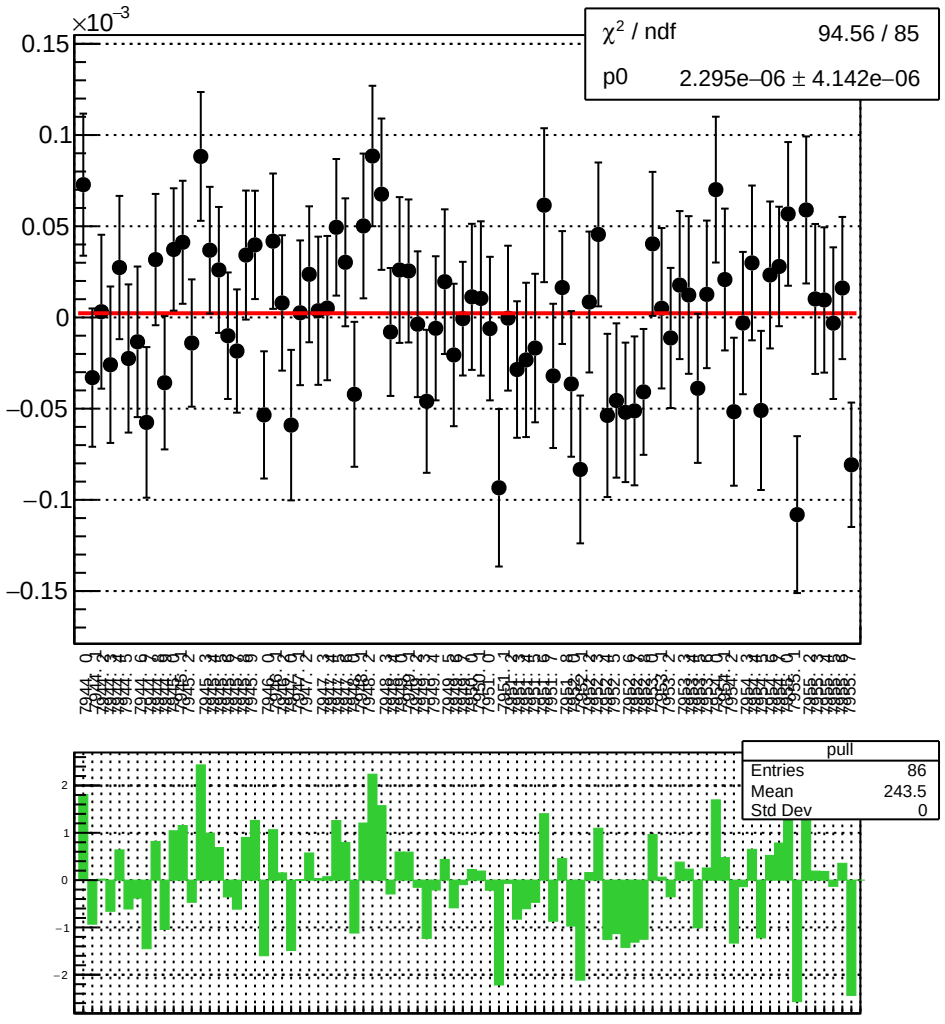

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.366e+05 / 85
p0 1.685e−10 ± 1.794e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

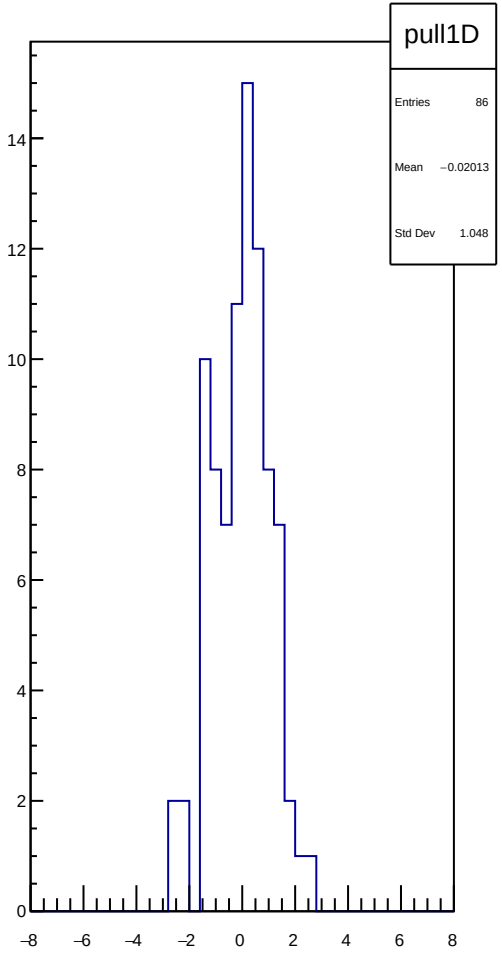

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.15 / 85
p0 −0.1082 ± 0.07545
pull
Entries 86
Mean −47.04
Std Dev 0
pull1D
Entries 86
Mean −0.03658
Std Dev 1.023

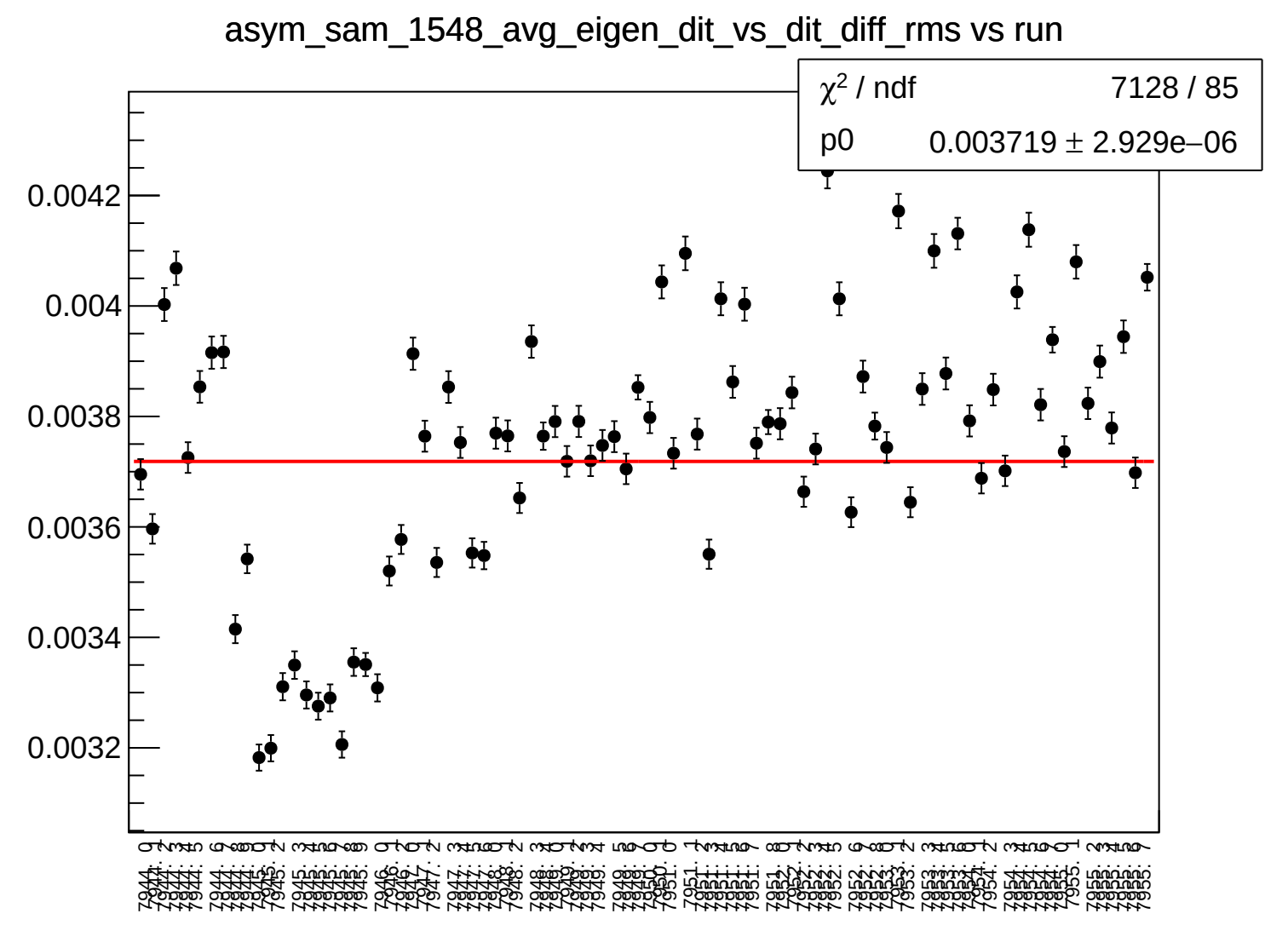

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.579e+04 / 85
p0 67.35 ± 0.05335
140
120
100
80
60

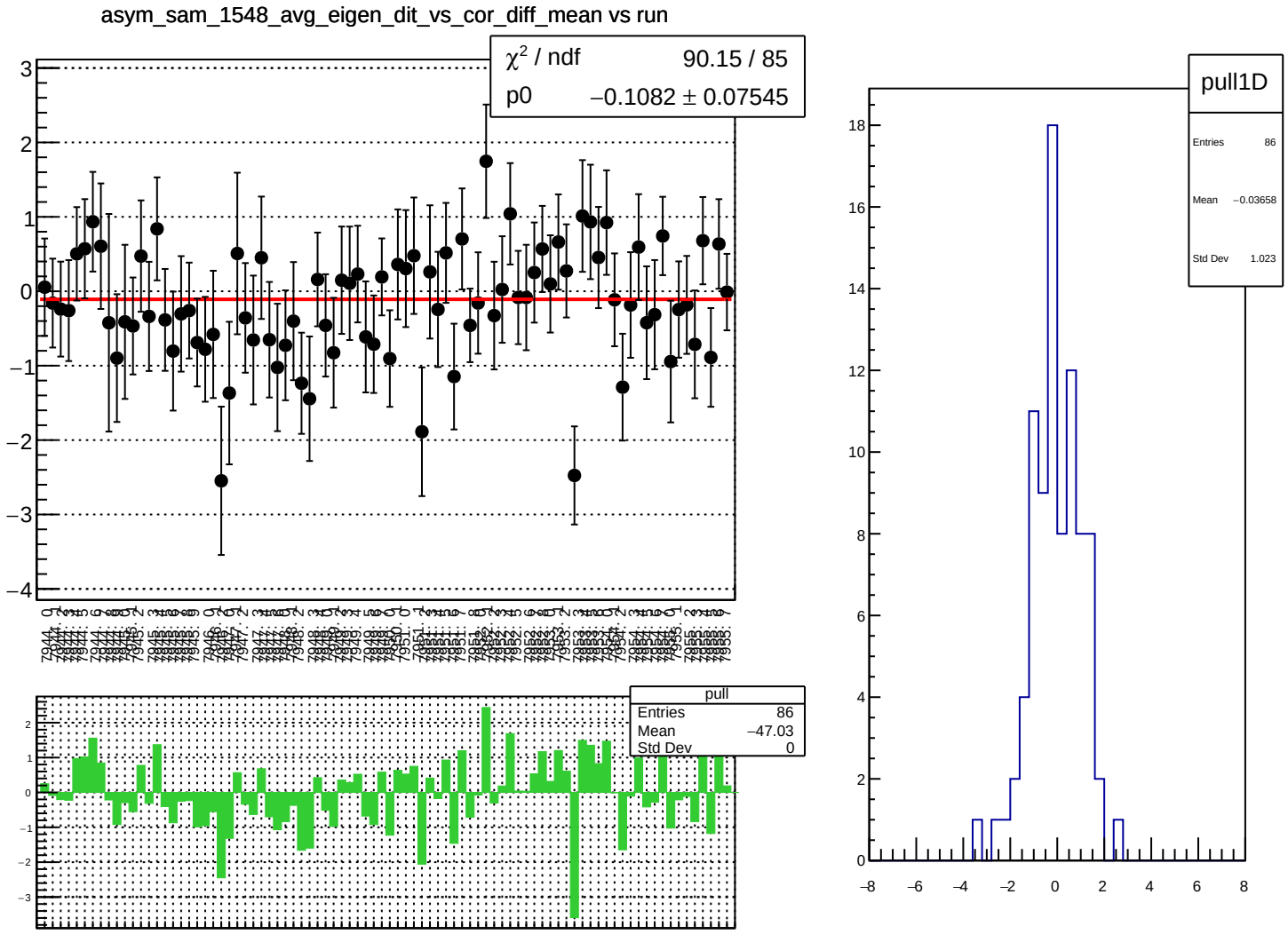

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.15 / 85
p0 −0.1082 ± 0.07545
pull
Entries 86
Mean −47.04
Std Dev 0
pull1D
Entries 86
Mean −0.03658
Std Dev 1.023

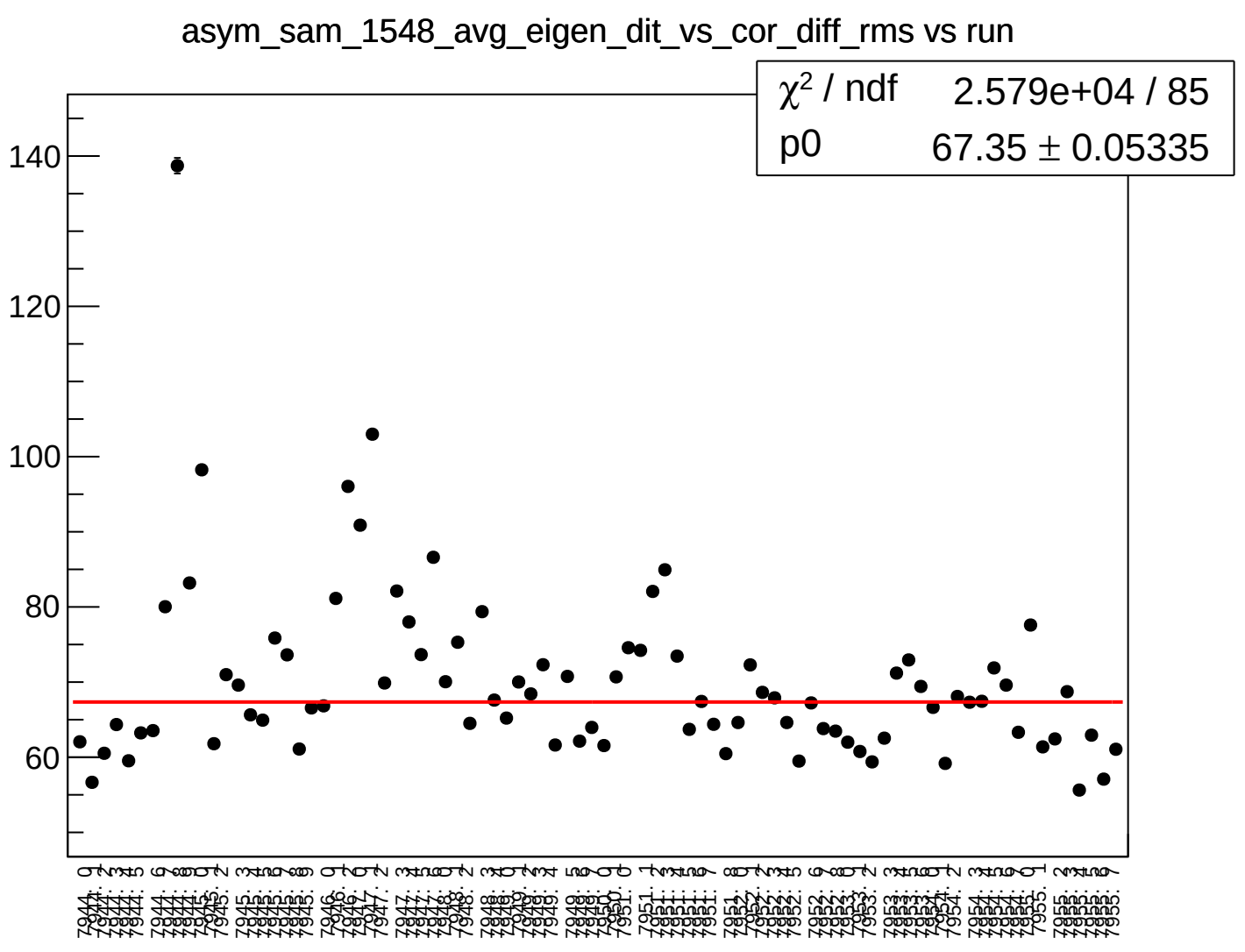

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.579e+04 / 85
p0 67.35 ± 0.05335
140
120
100
80
60

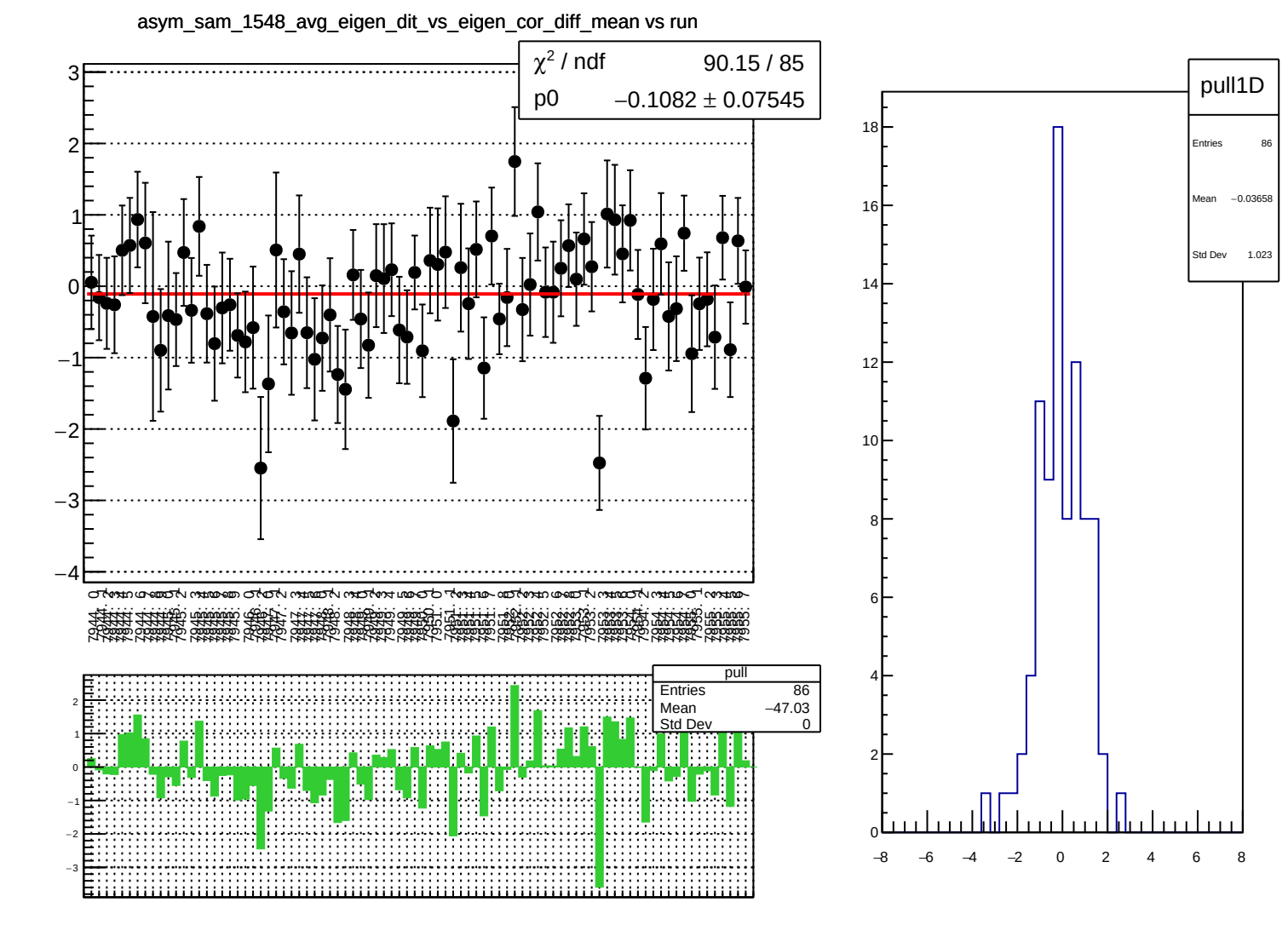

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.56 / 85
p0 2.295e−06 ± 4.142e−06
pull
Entries 86
Mean 243.5
Std Dev 0

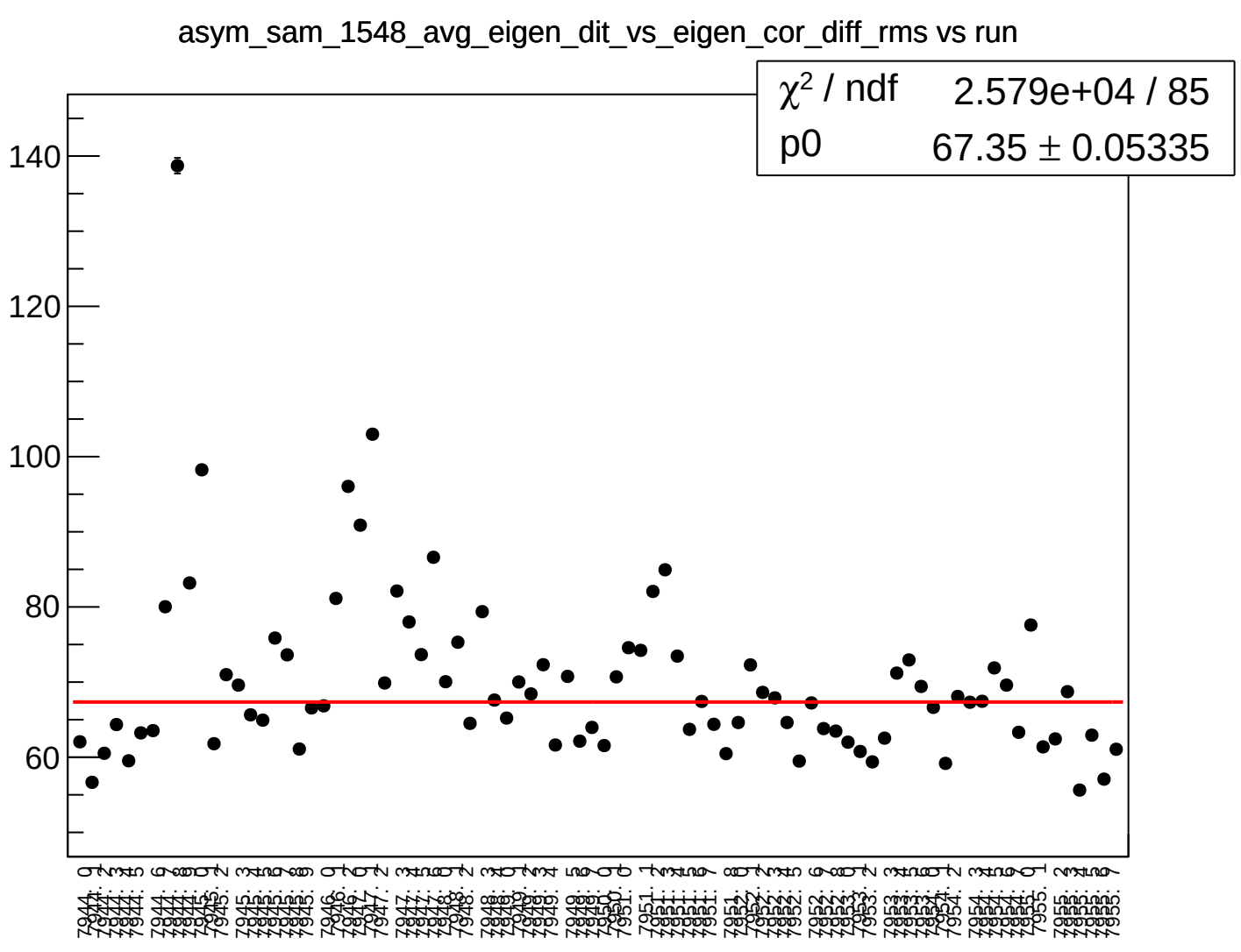

pull1D
Entries 86
Mean −0.02013
Std Dev 1.048

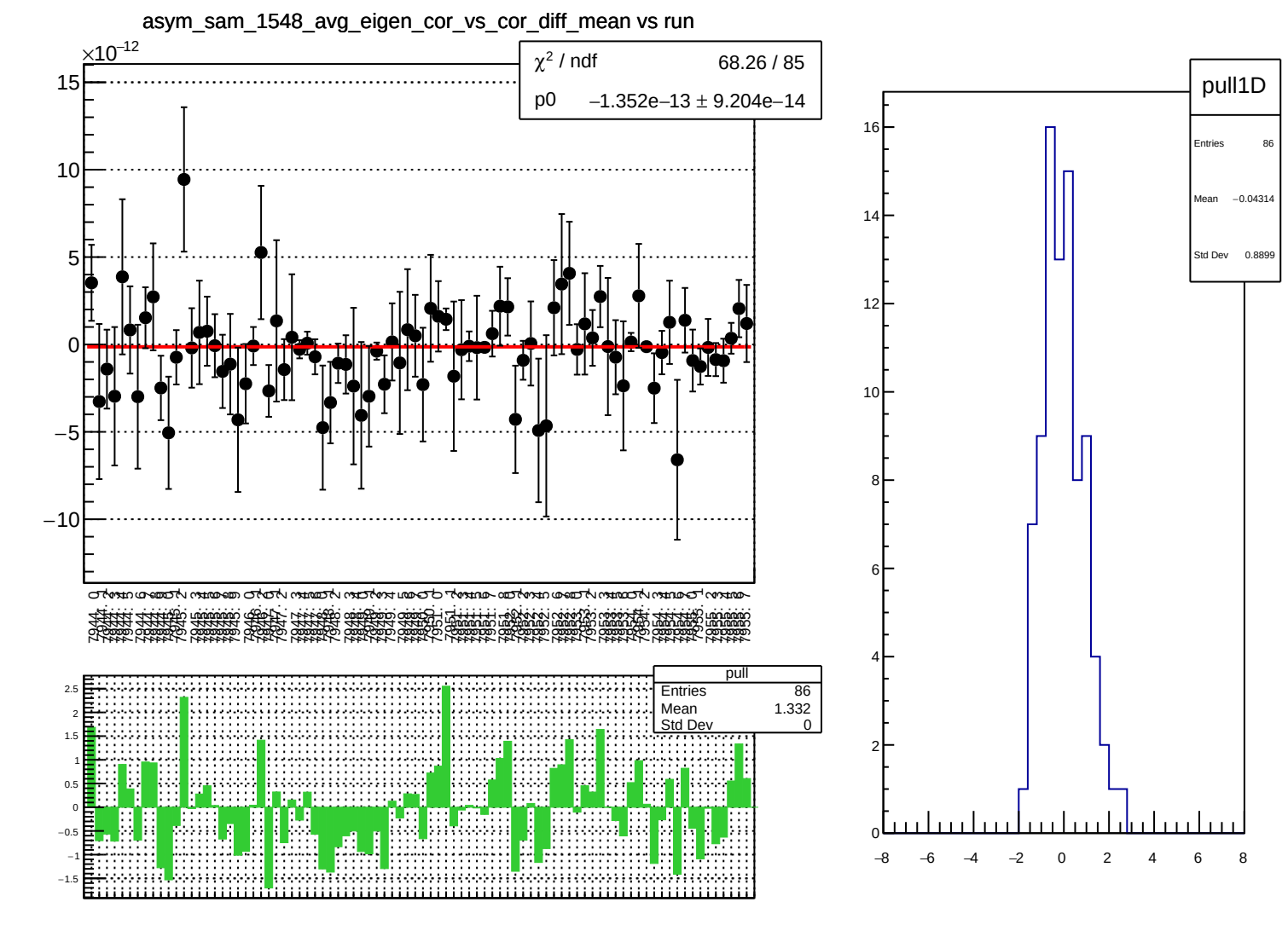

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7128 / 85
p0 0.003719 ± 2.929e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

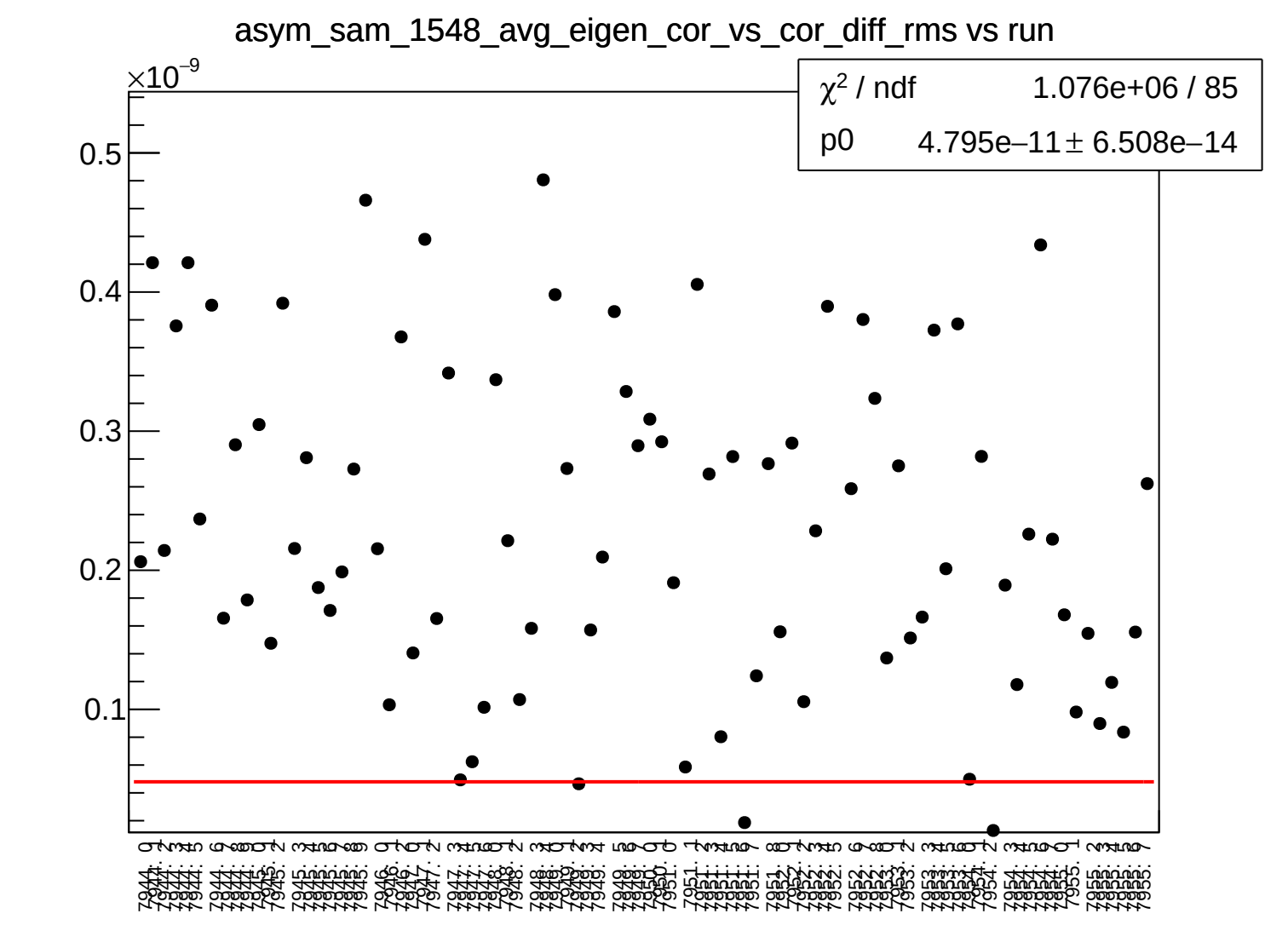

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.15 / 85
p0 −0.1082 ± 0.07545
pull
Entries 86
Mean −47.03
Std Dev 0
pull1D
Entries 86
Mean −0.03658
Std Dev 1.023

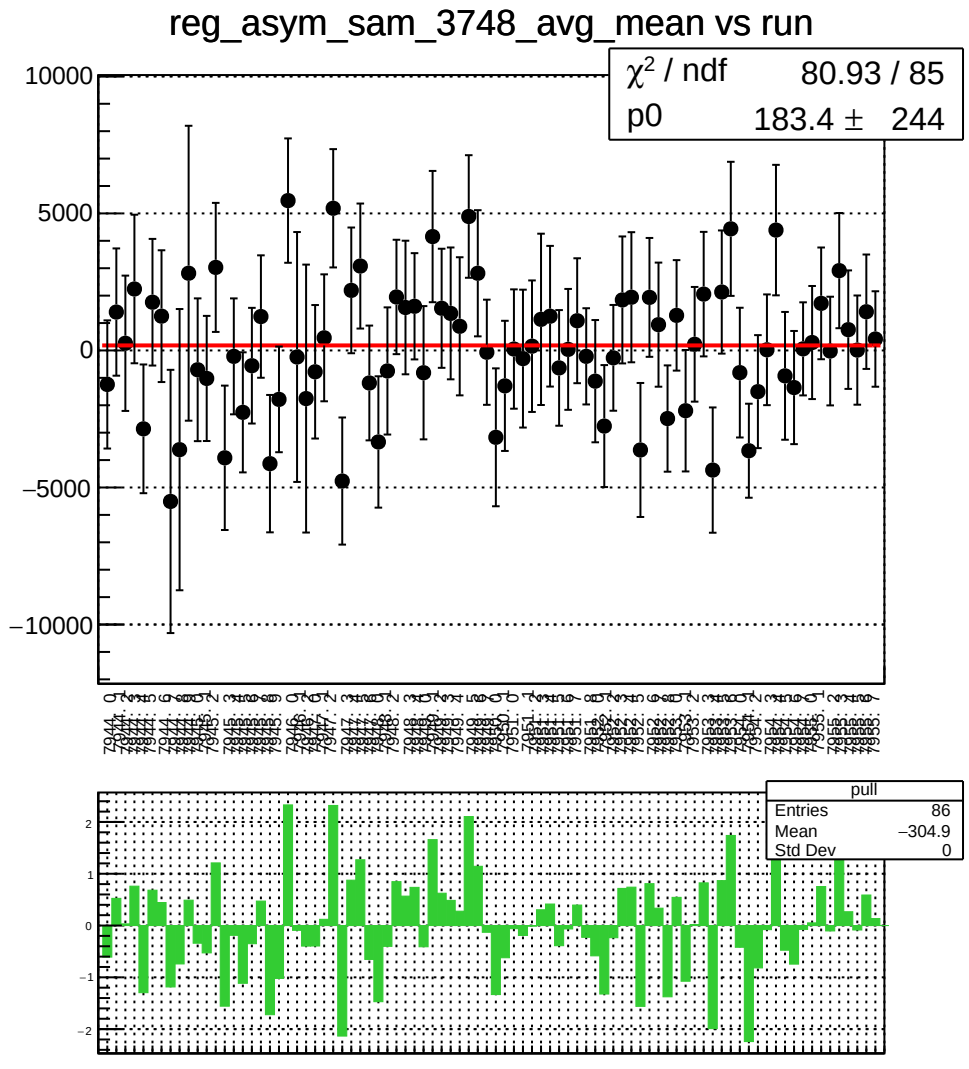

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.579e+04 / 85
p0 67.35 ± 0.05335
140
120
100
80
60

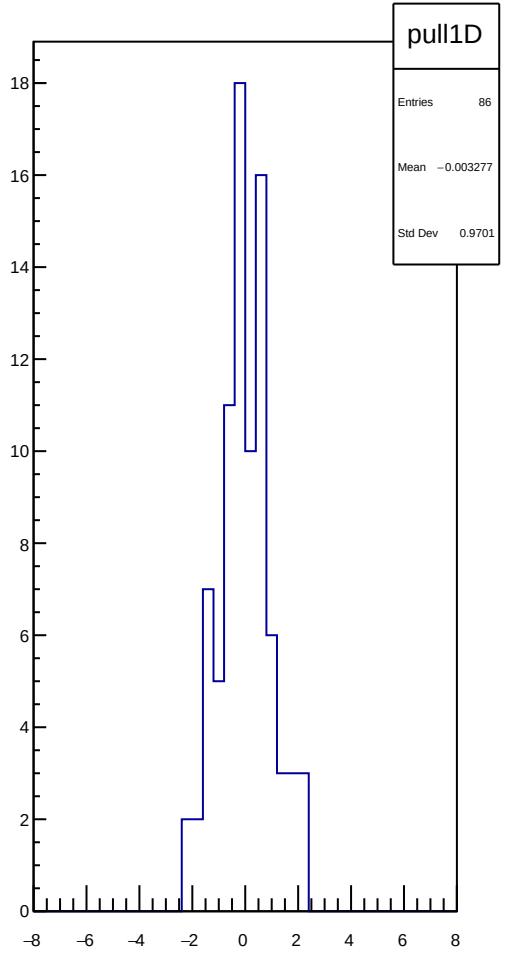

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.15 / 85
p0 −0.1082 ± 0.07545
pull
Entries 86
Mean −47.03
Std Dev 0
pull1D
Entries 86
Mean −0.03658
Std Dev 1.023

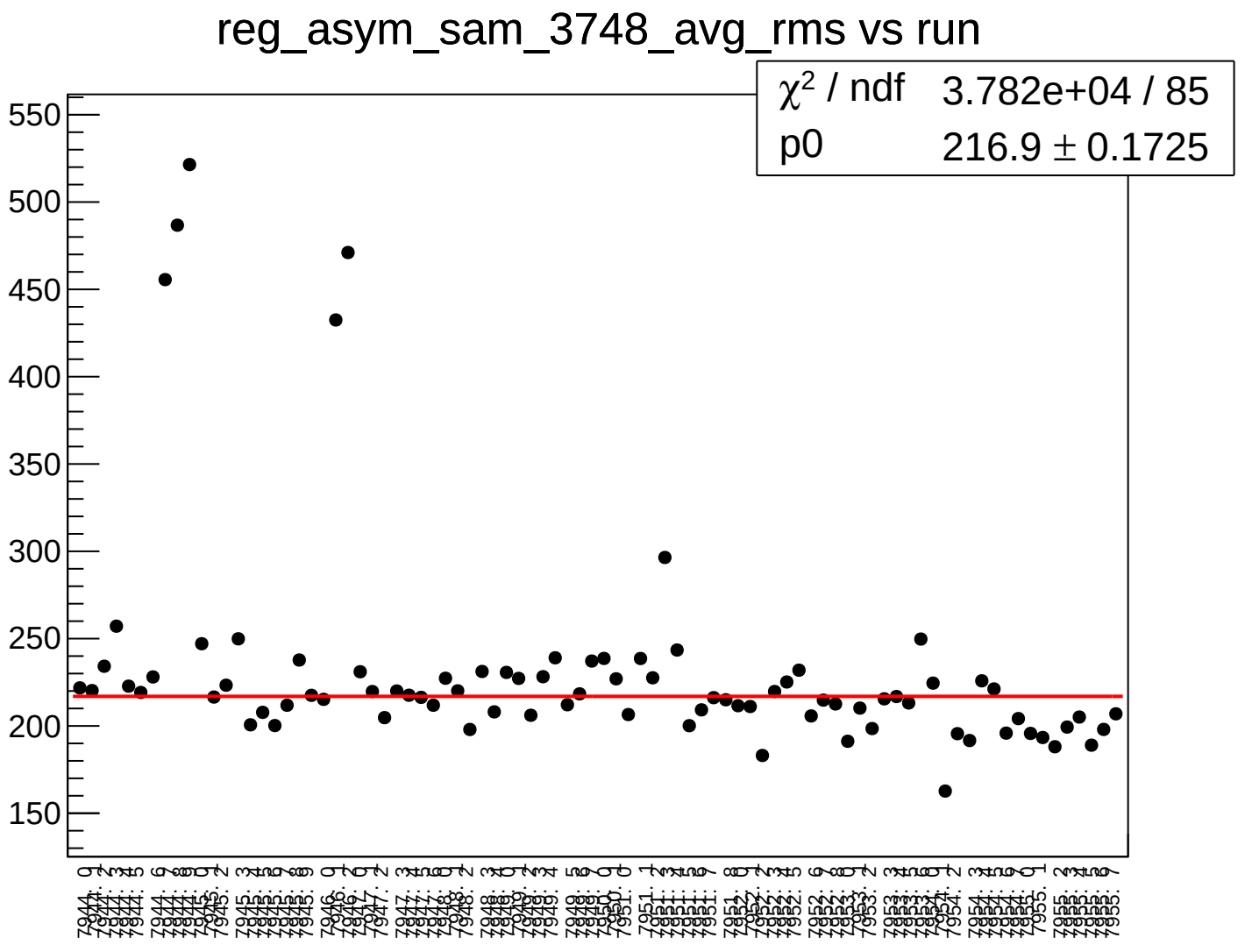

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.579e+04 / 85
p0 67.35 ± 0.05335
140
120
100
80
60

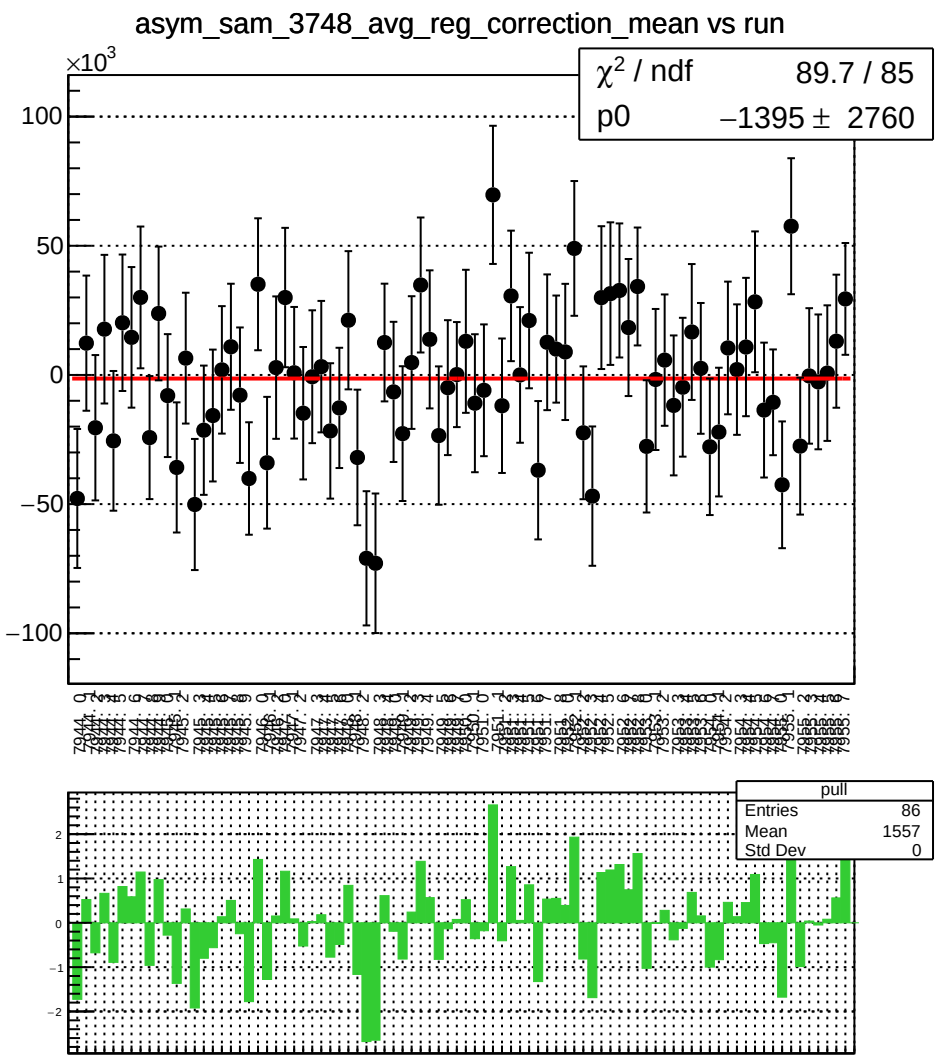

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.26 / 85
p0 −1.352e−13 ± 9.204e−14
pull
Entries 86
Mean 1.332
Std Dev 0
pull1D
Entries 86
Mean −0.04314
Std Dev 0.8899

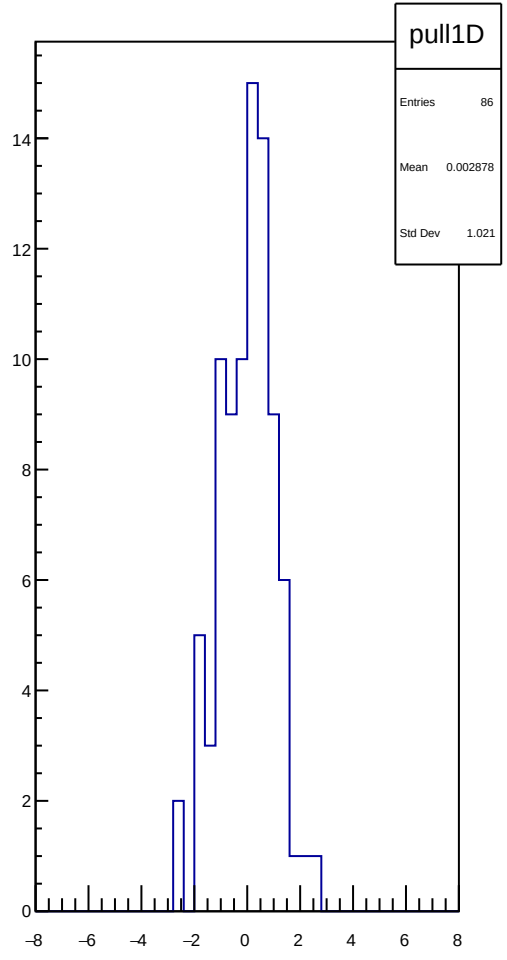

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.076e+06 / 85
p0 4.795e−11 ± 6.508e−14
0.5
0.4
0.3
0.2
0.1

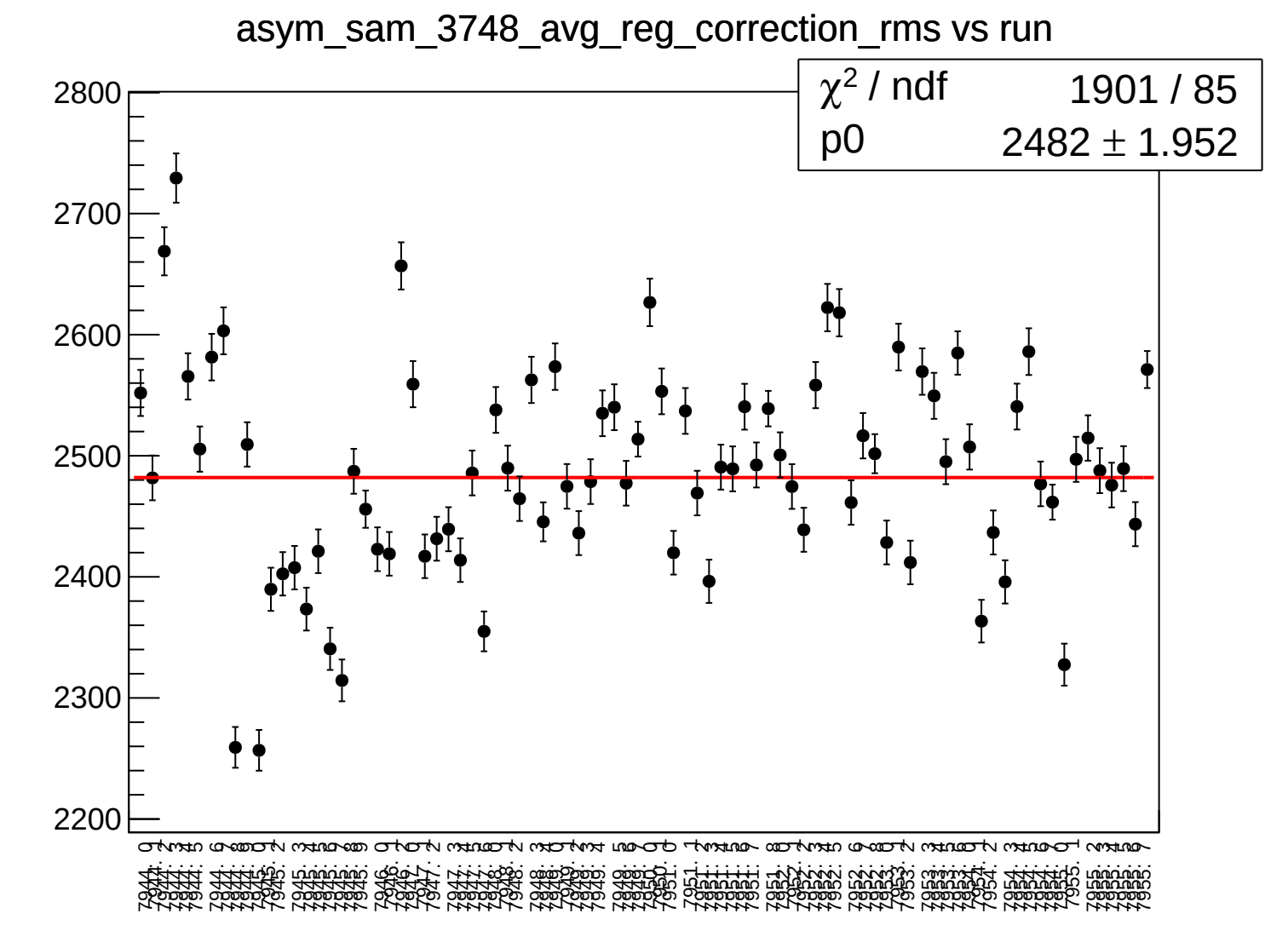

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 80.93 / 85
p0 183.4 ± 244
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −304.9
Std Dev 0
2
1
0
−1
−2

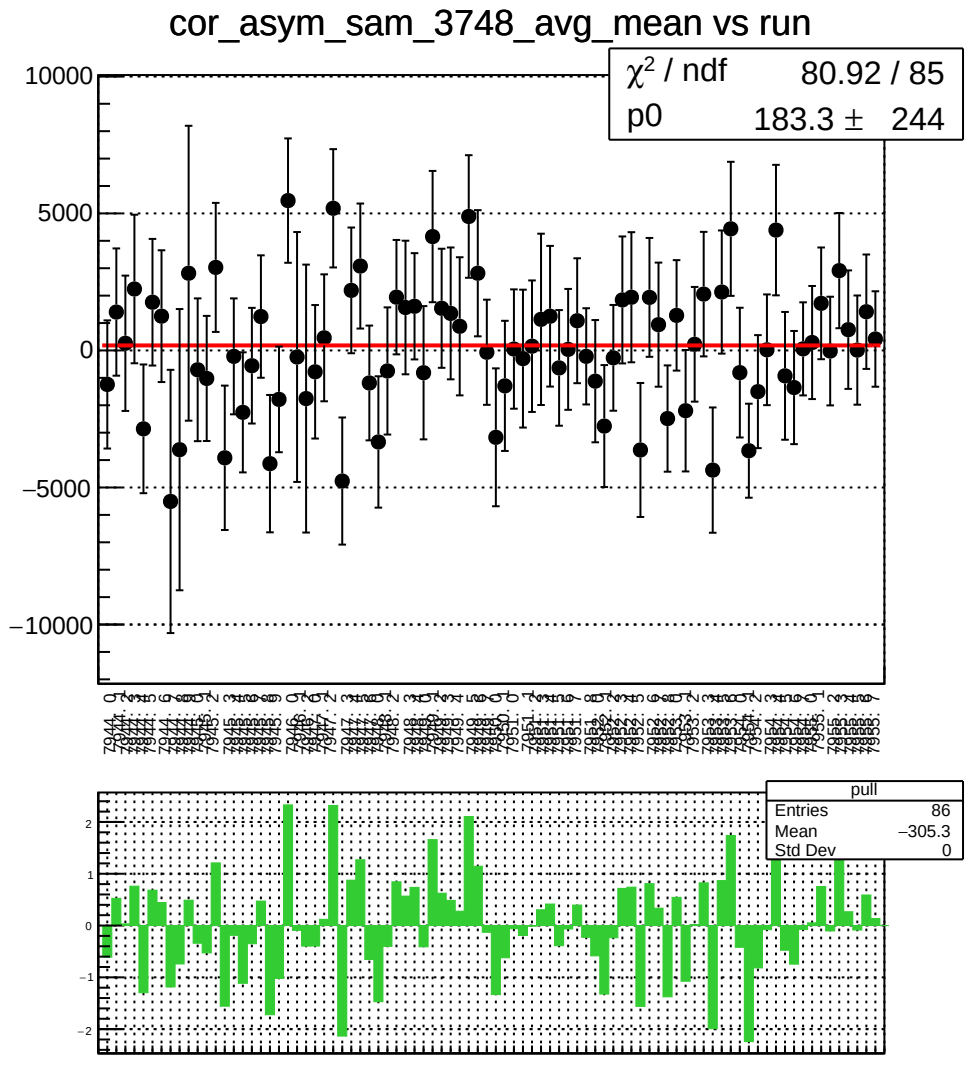

pull1D
Entries 86
Mean −0.003277
Std Dev 0.9701
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

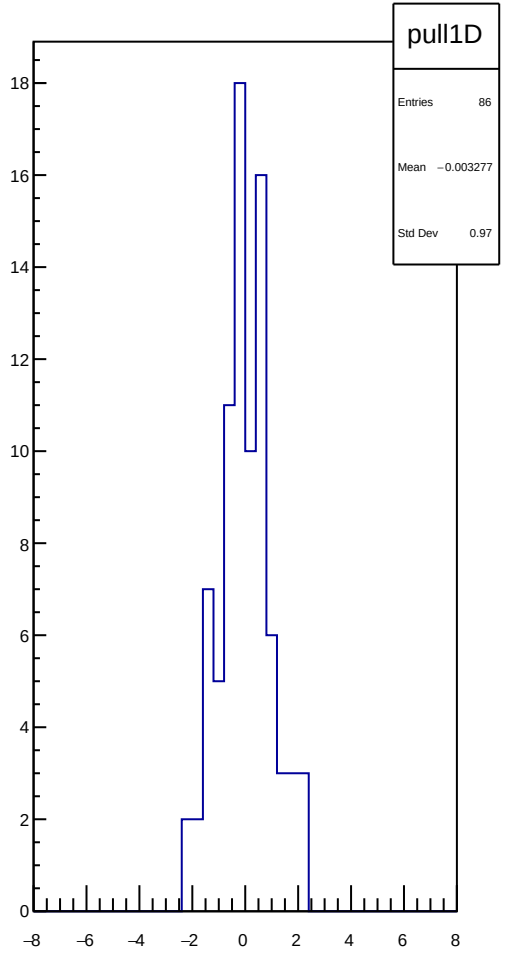

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 3.782e+04 / 85
p0 216.9 ± 0.1725
550
500
450
400
350
300
250
200
150

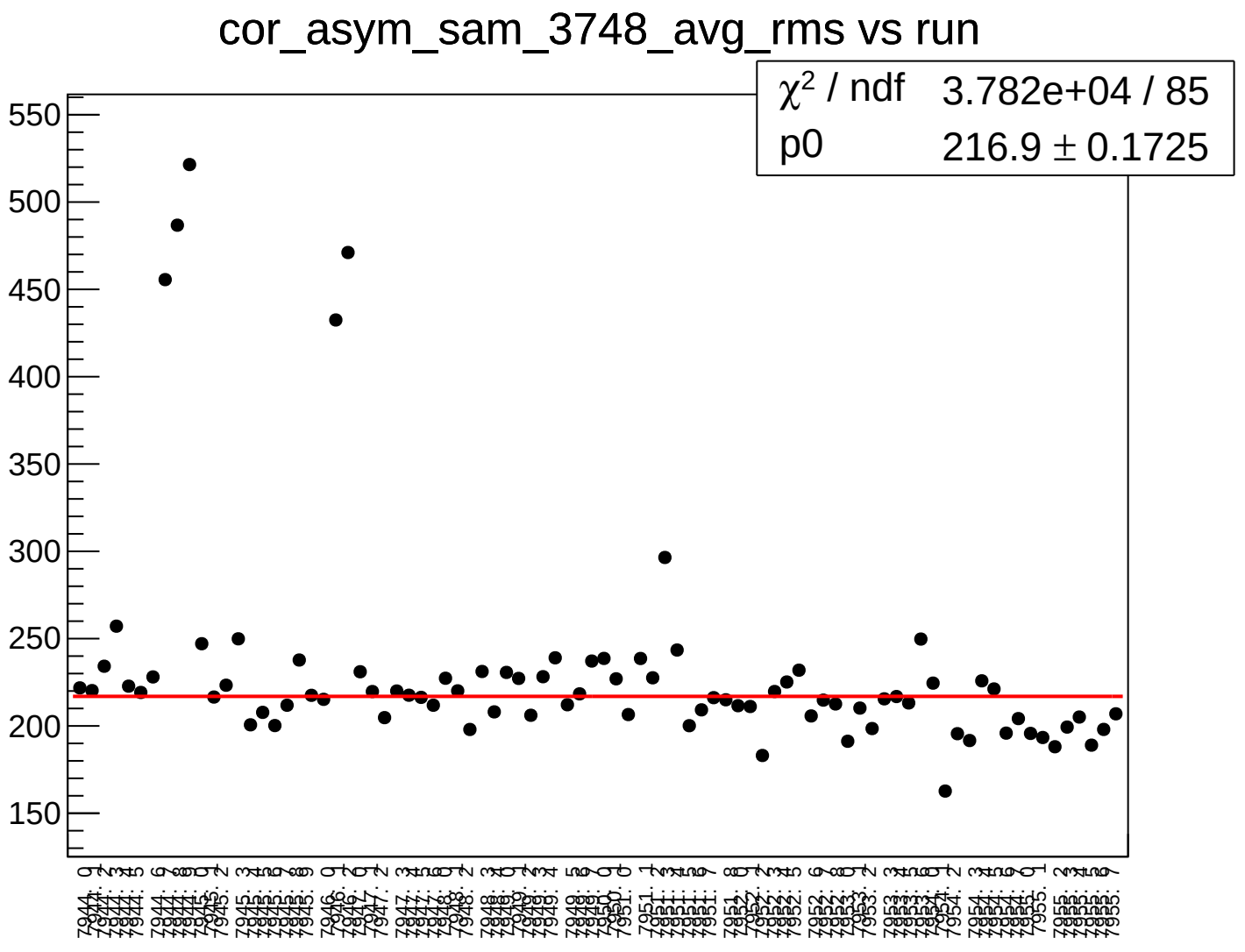

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.7 / 85
p0 −1395 ± 2760
100
50
0
−50
−100
pull
Entries 86
Mean 1557
Std Dev 0
2
1
0
−1
−2

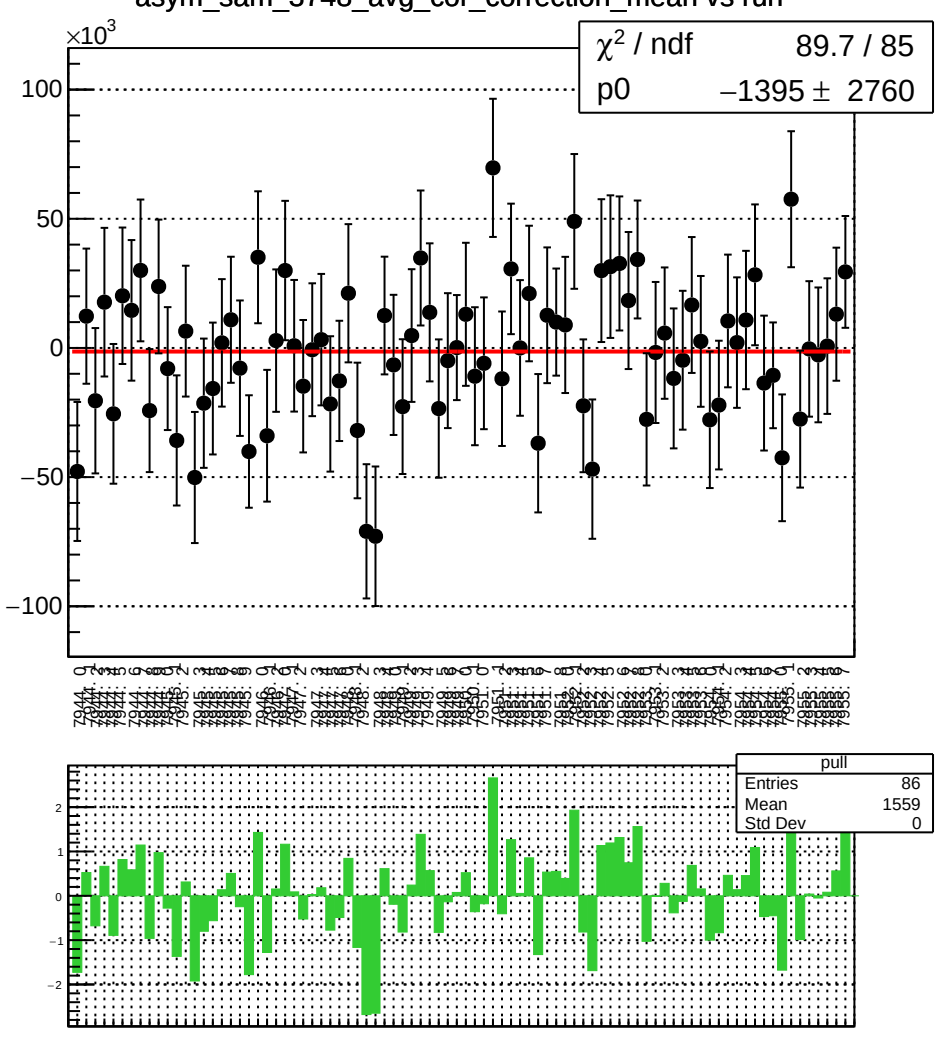

pull1D
Entries 86
Mean 0.002878
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

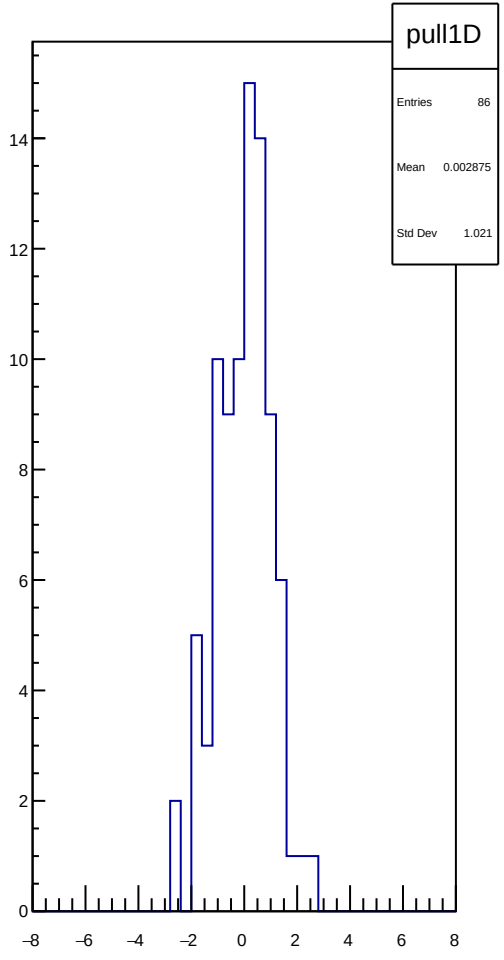

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1901 / 85
p0 2482 ± 1.952
2800
2700
2600
2500
2400
2300
2200

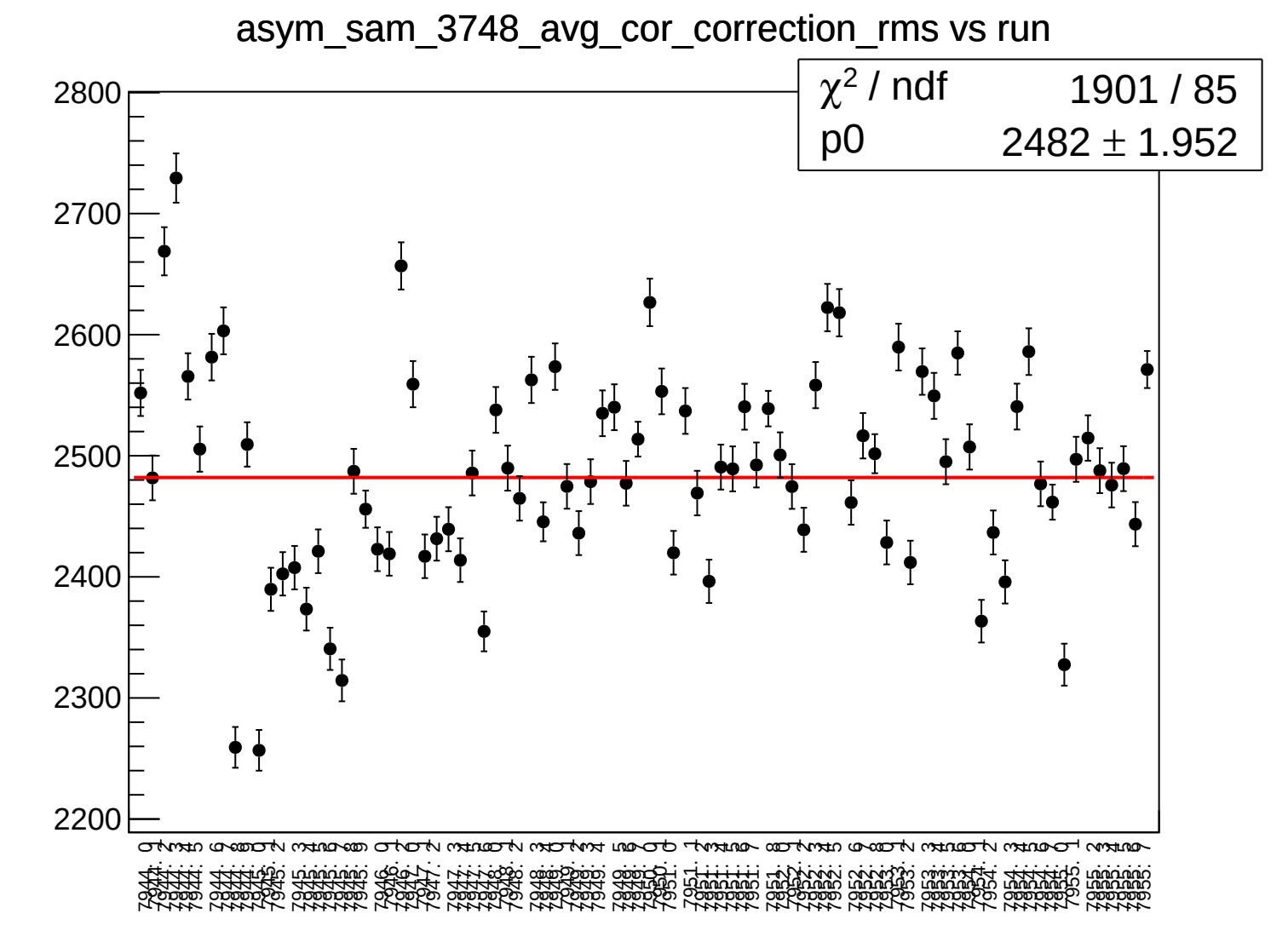

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 80.92 / 85
p0 183.3 ± 244
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −305.3
Std Dev 0
2
1
0
−1
−2

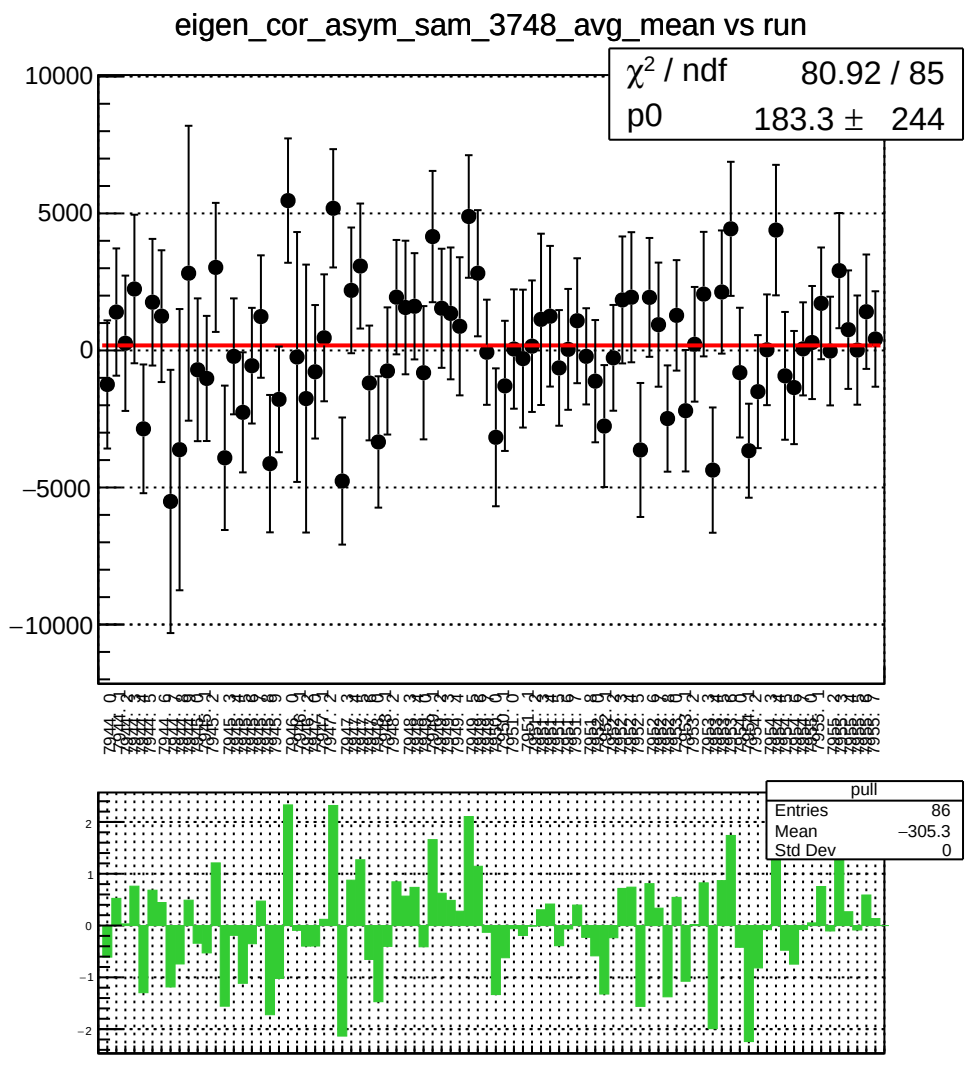

pull1D
Entries 86
Mean −0.003277
Std Dev 0.97
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

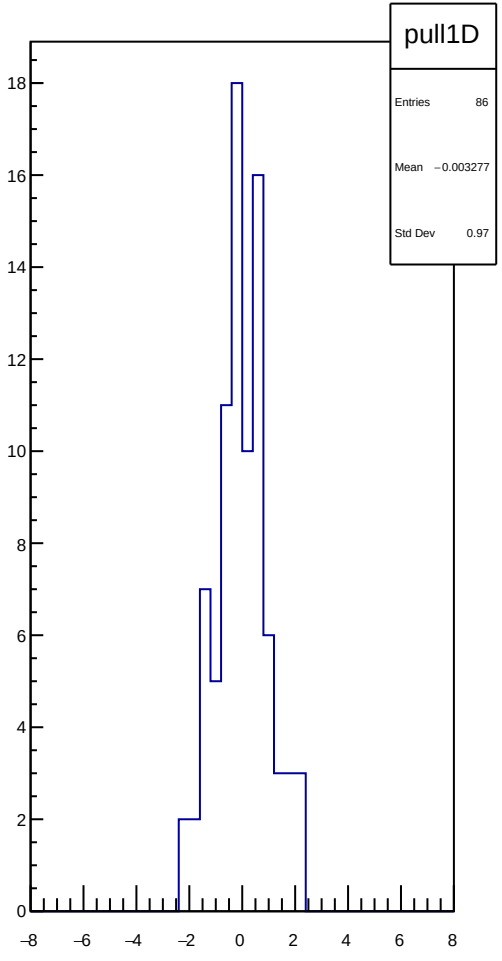

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.782e+04 / 85
p0 216.9 ± 0.1725
550
500
450
400
350
300
250
200
150

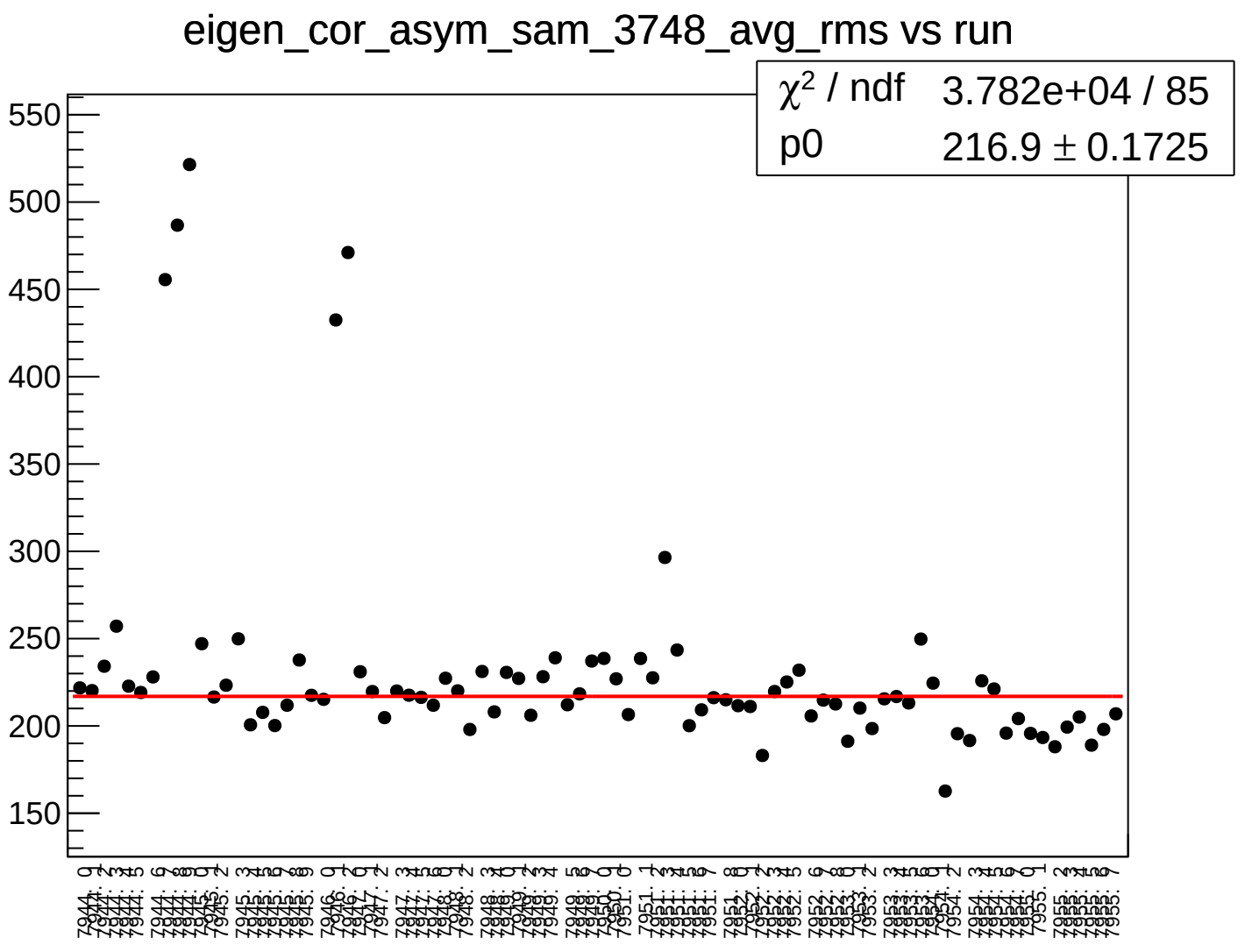

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.7 / 85
p0 −1395 ± 2760
100
50
0
−50
−100
pull
Entries 86
Mean 1559
Std Dev 0
2
1
0
−1
−2

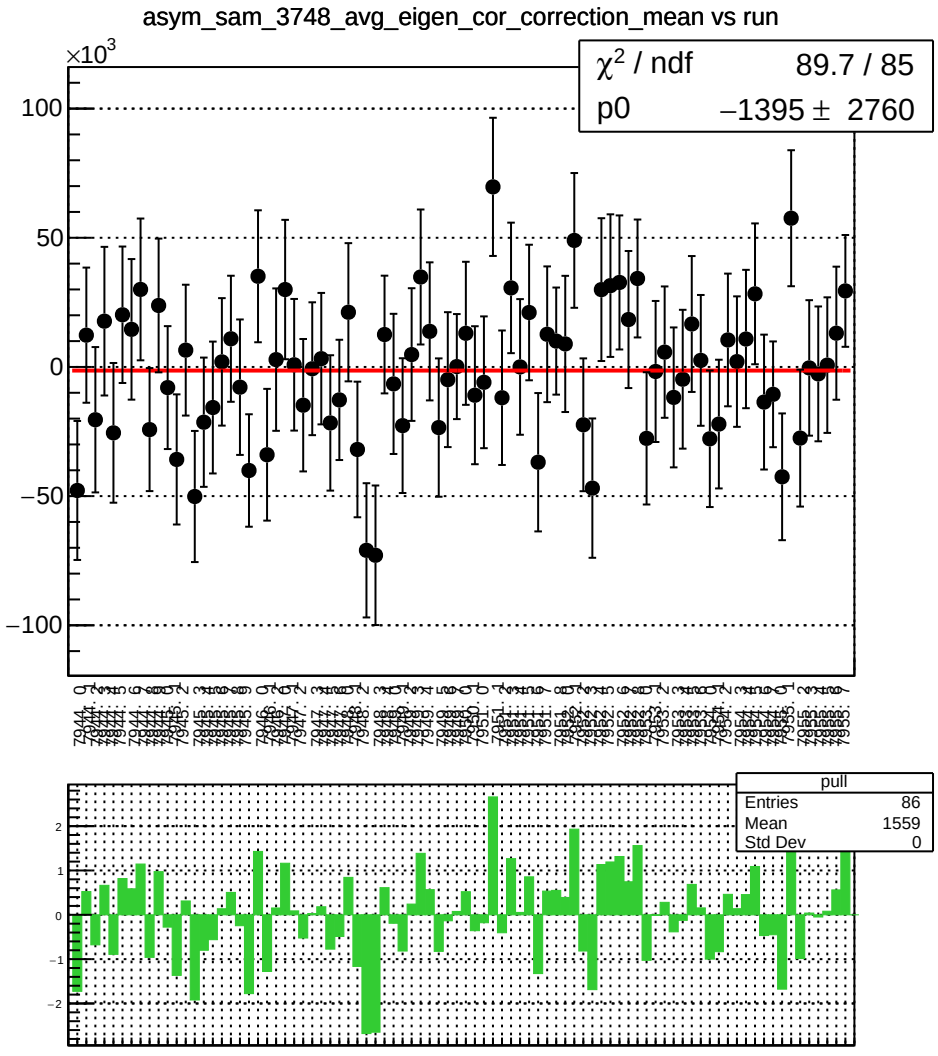

pull1D
Entries 86
Mean 0.002875
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

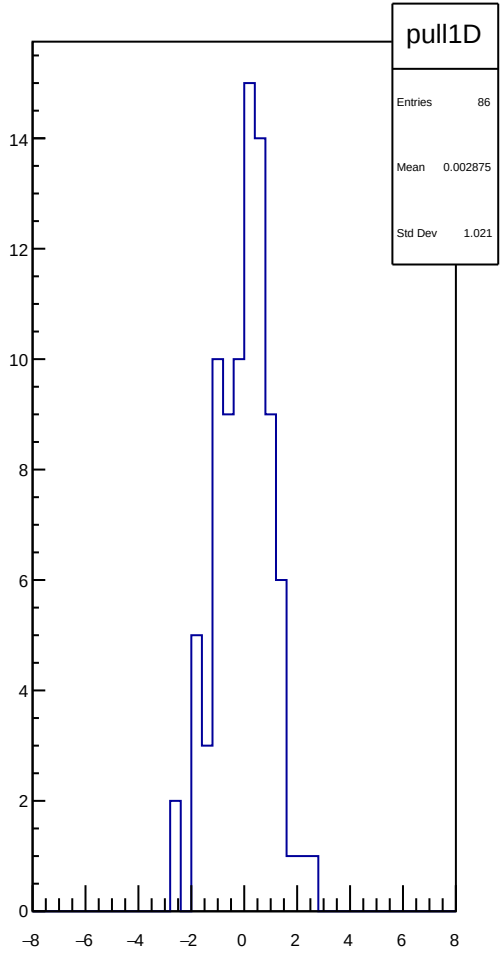

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1901 / 85
p0 2482 ± 1.952
2800
2700
2600
2500
2400
2300
2200

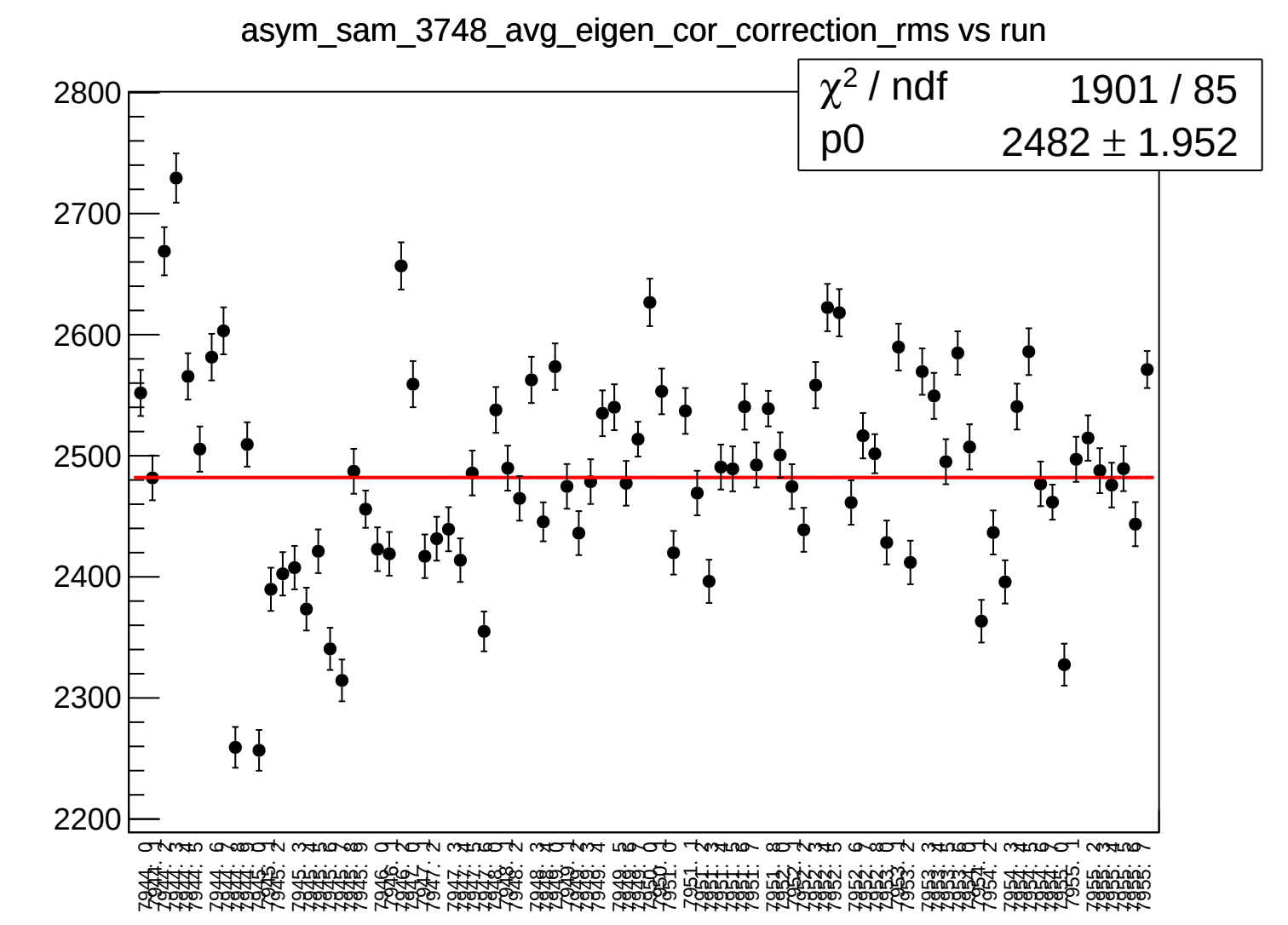

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 80.92 / 85
p0 183.3 ± 244
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −305.3
Std Dev 0
2
1
0
−1
−2

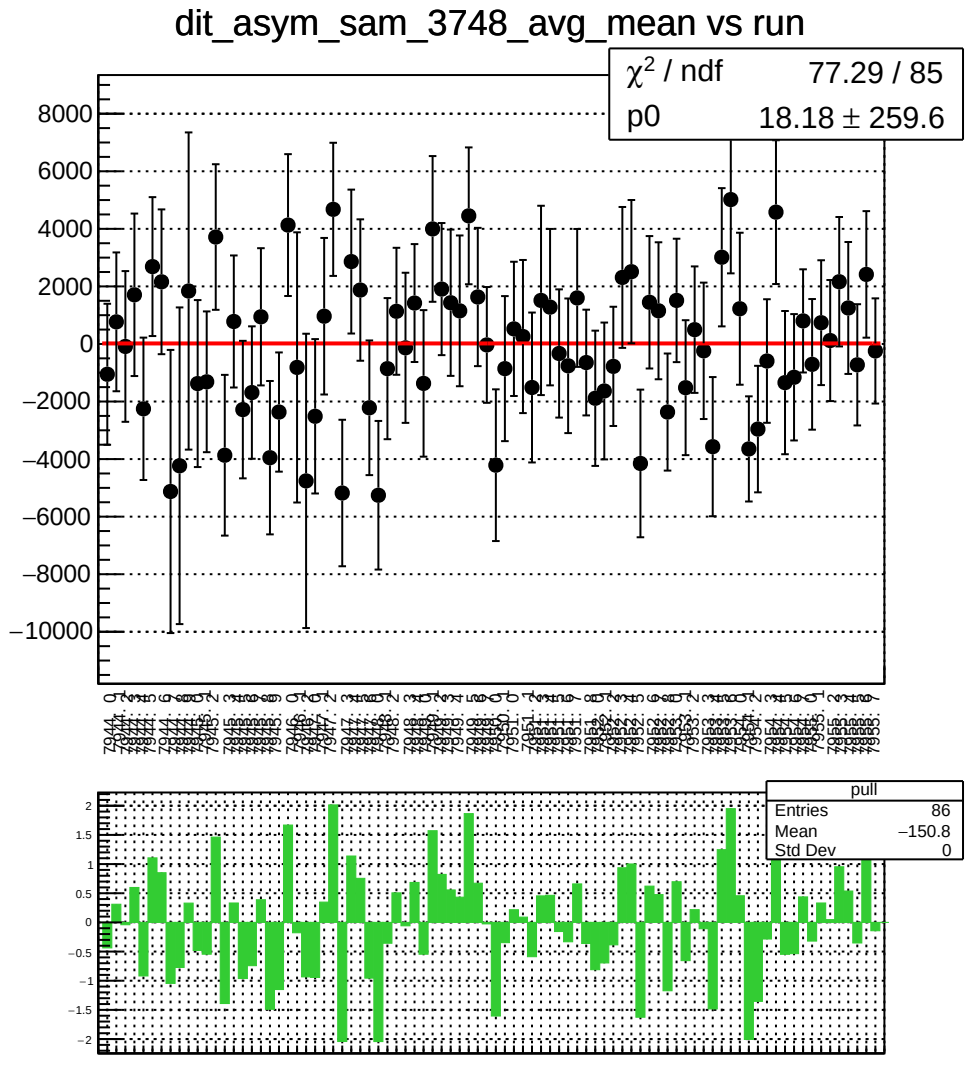

pull1D
Entries 86
Mean −0.003277
Std Dev 0.97
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

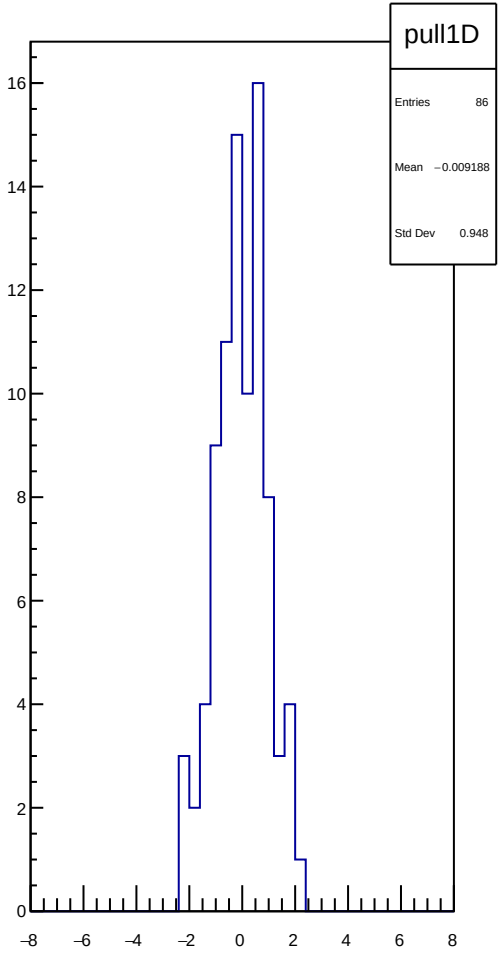

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.782e+04 / 85
p0 216.9 ± 0.1725
550
500
450
400
350
300
250
200
150

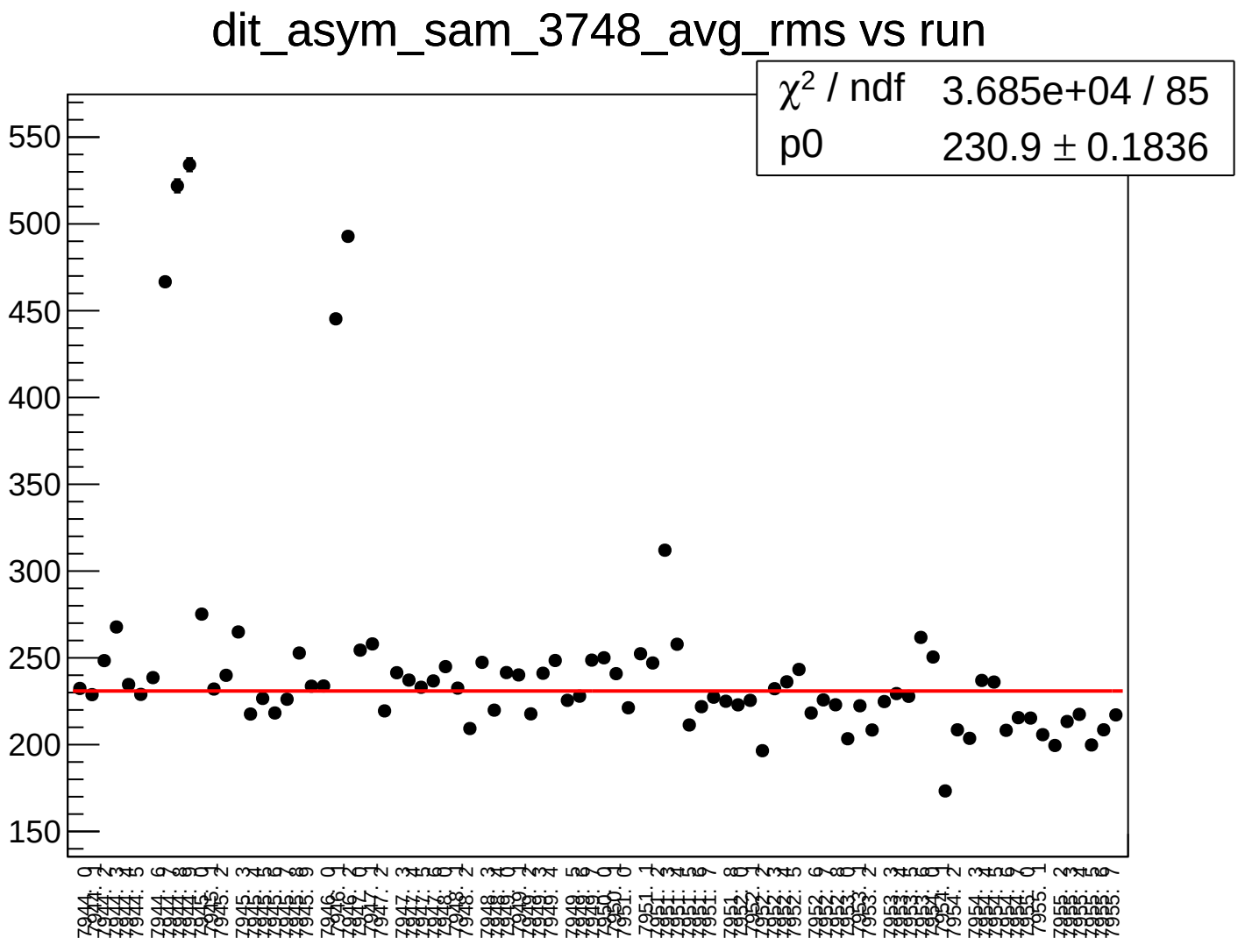

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.7 / 85
p0 −1395 ± 2760
100
50
0
−50
−100
pull
Entries 86
Mean 1559
Std Dev 0
2
1
0
−1
−2

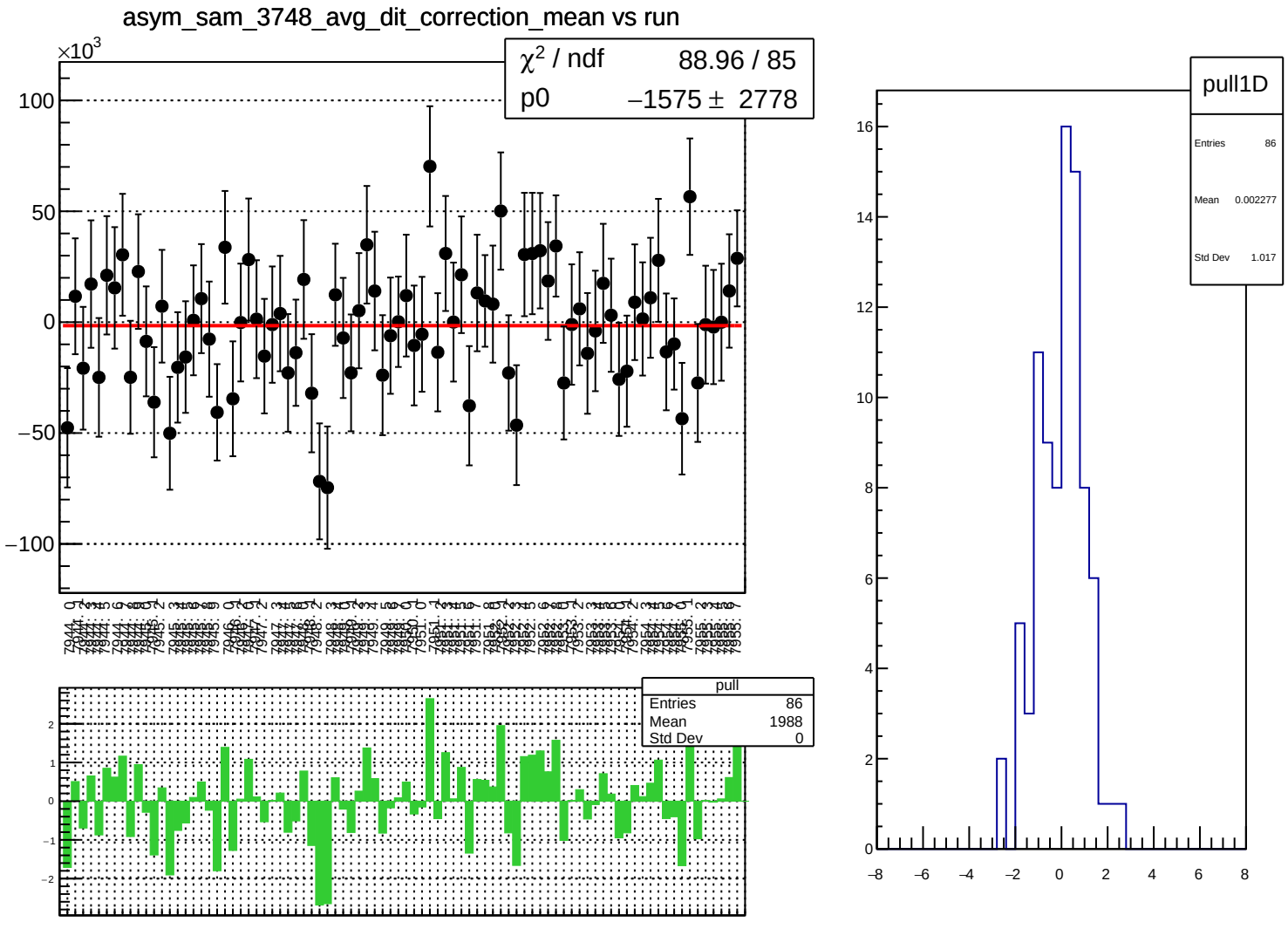

pull1D
Entries 86
Mean 0.002875
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

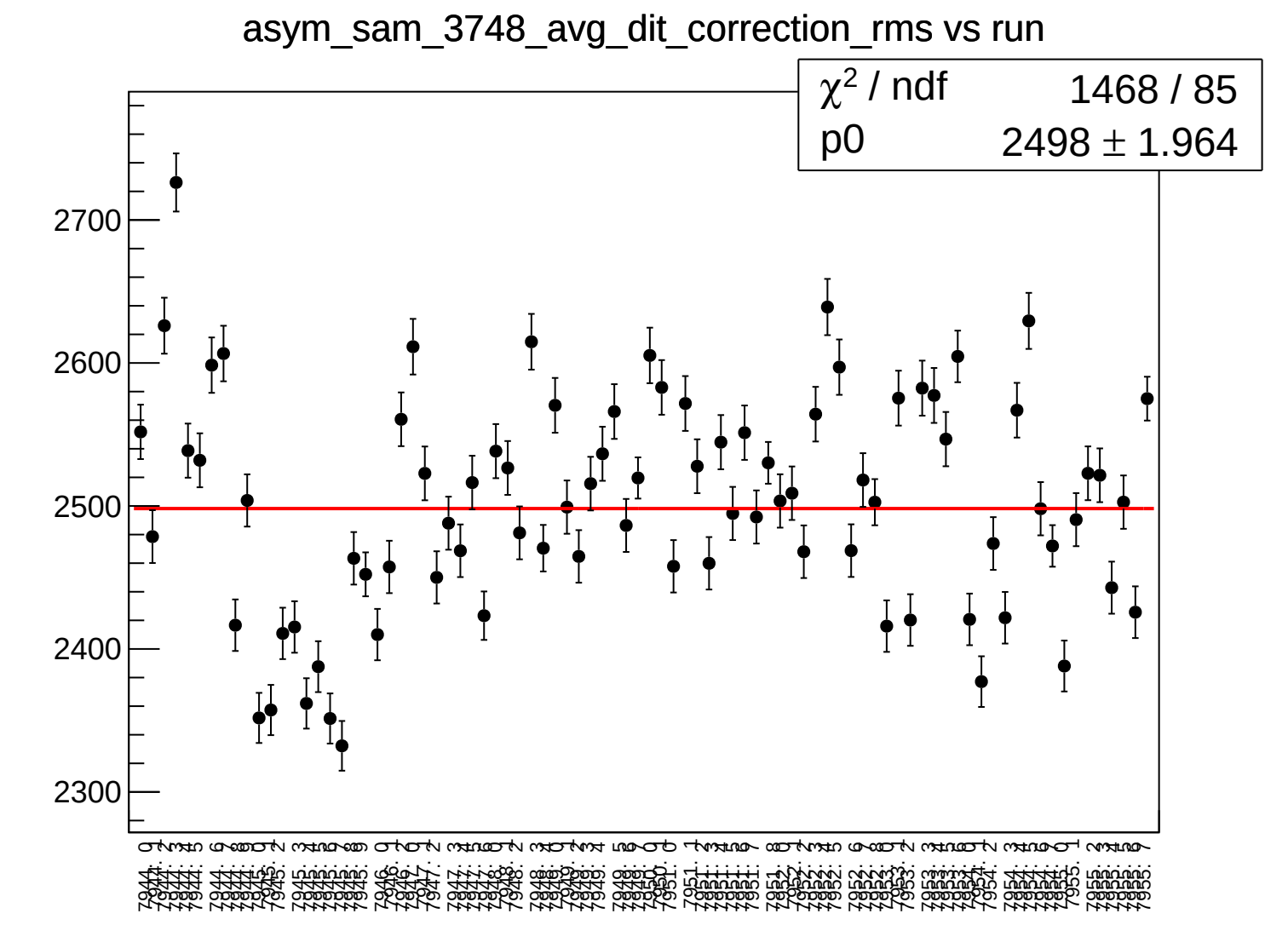

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1901 / 85
p0 2482 ± 1.952
2800
2700
2600
2500
2400
2300
2200

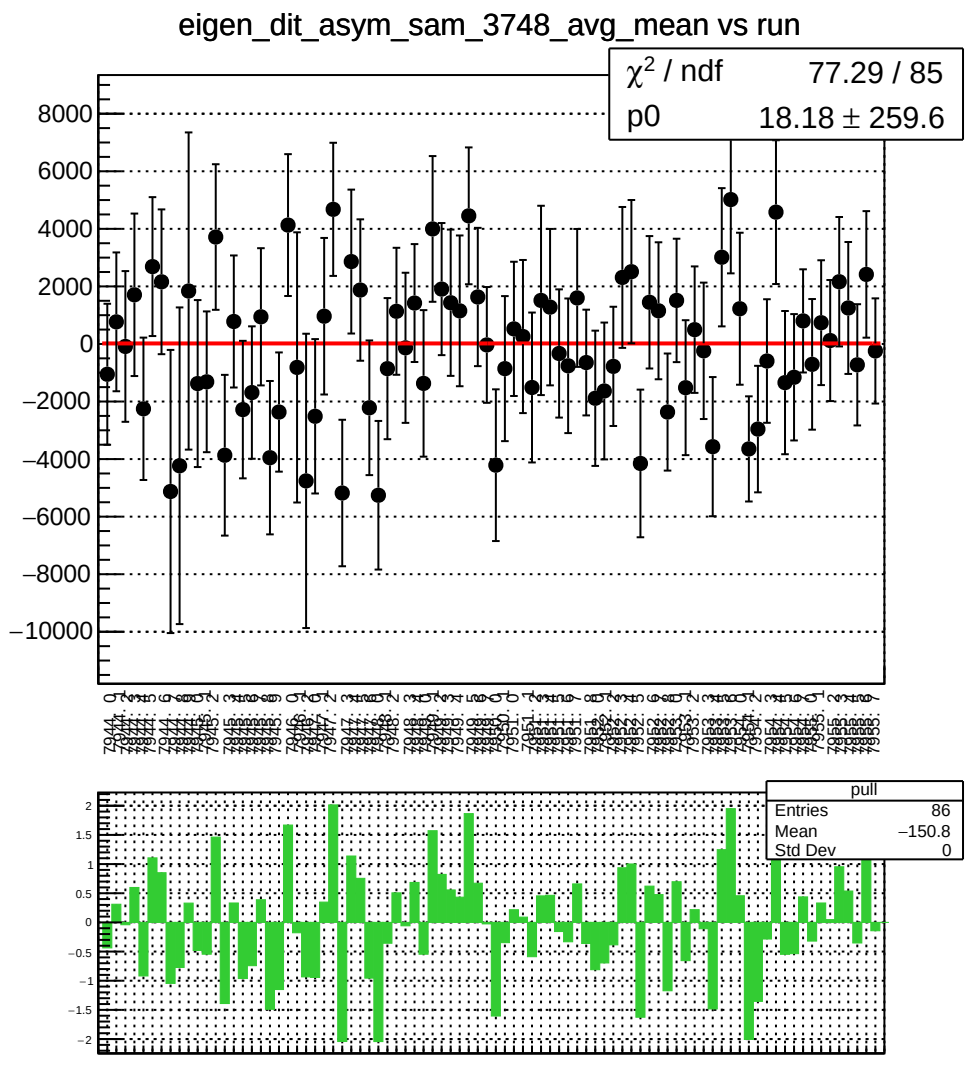

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 77.29 / 85
p0 18.18 ± 259.6
pull
Entries 86
Mean −150.8
Std Dev 0

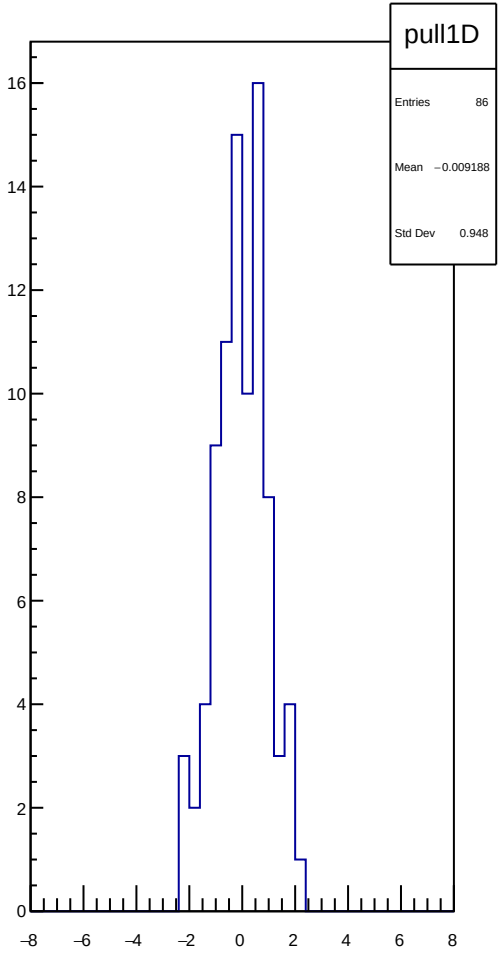

pull1D
Entries 86
Mean −0.009188
Std Dev 0.948

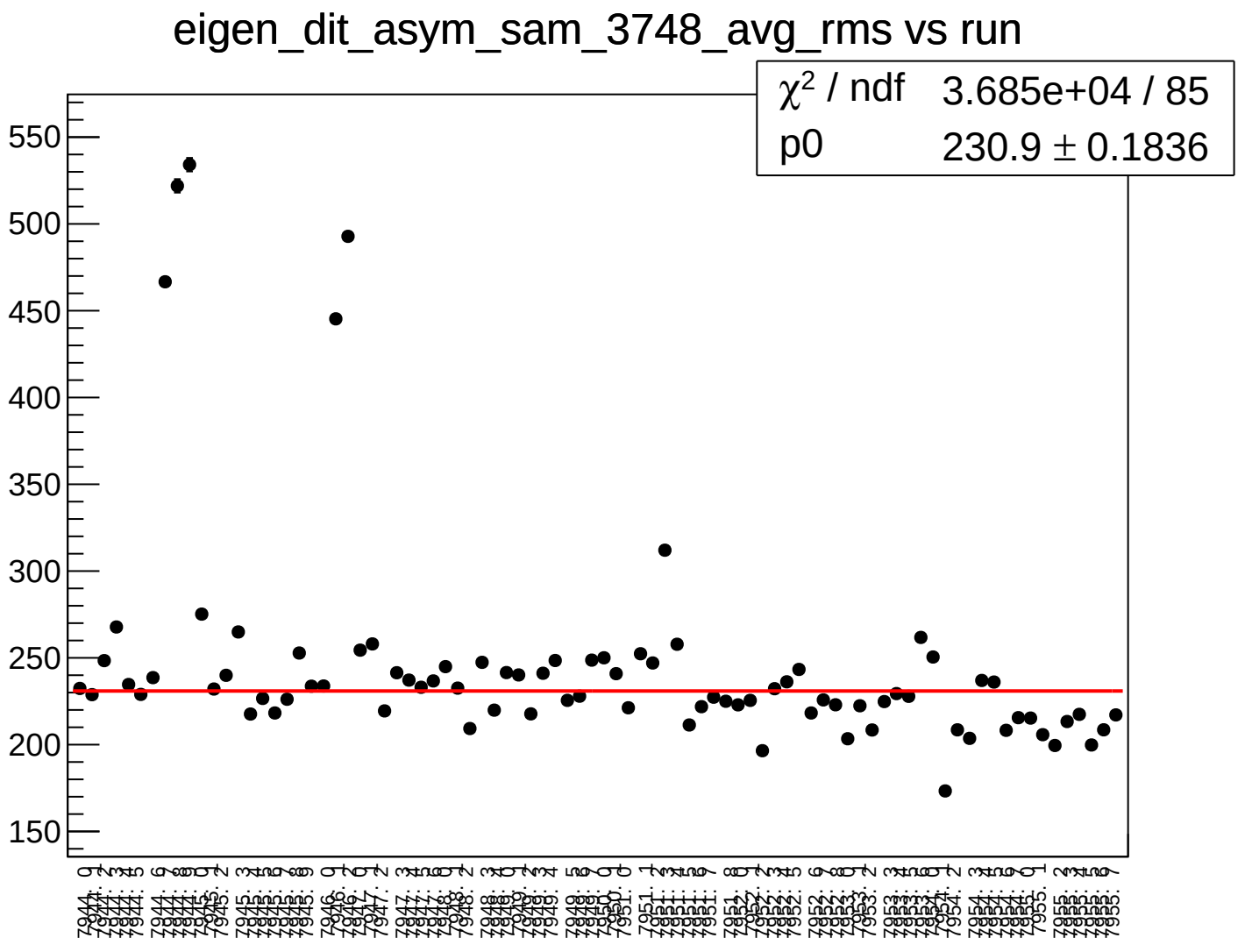

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 3.685e+04 / 85
p0 230.9 ± 0.1836
550
500
450
400
350
300
250
200
150

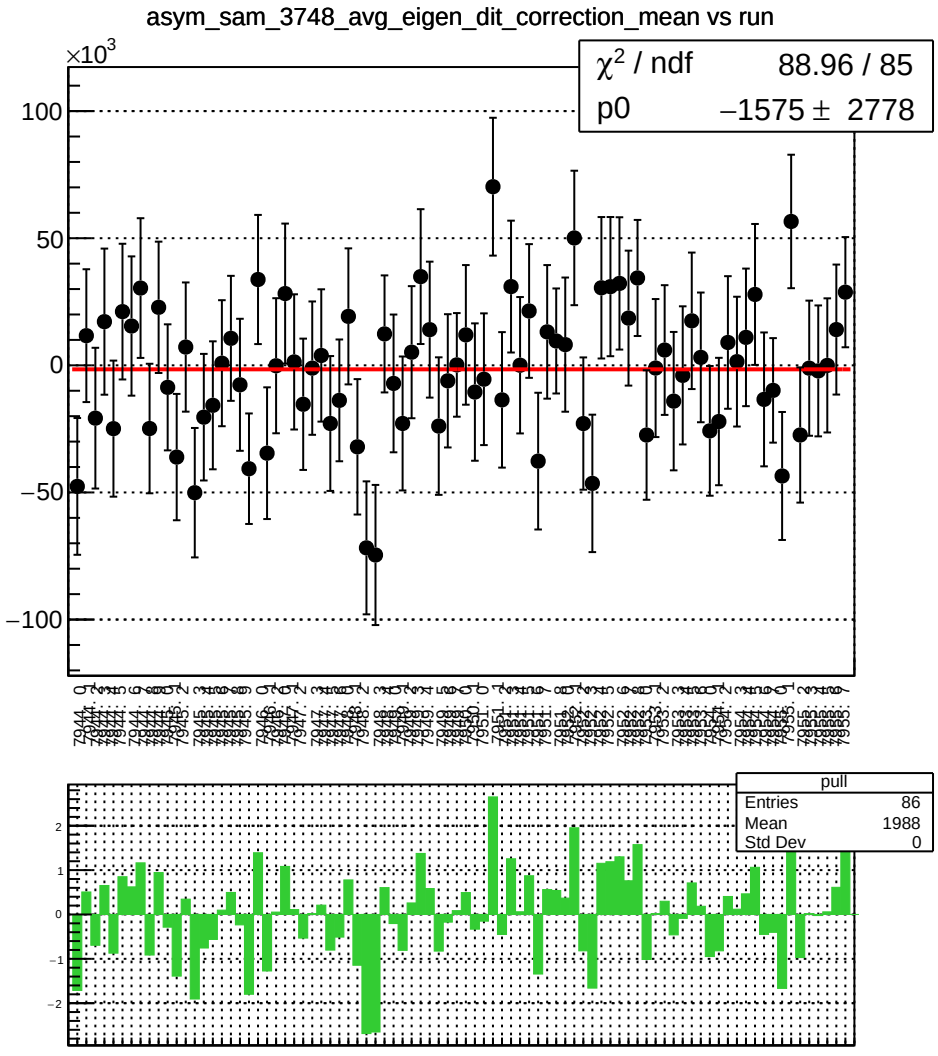

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.96 / 85
p0 −1575 ± 2778
100
50
0
−50
−100
pull
Entries 86
Mean 1988
Std Dev 0
pull1D
Entries 86
Mean 0.002277
Std Dev 1.017

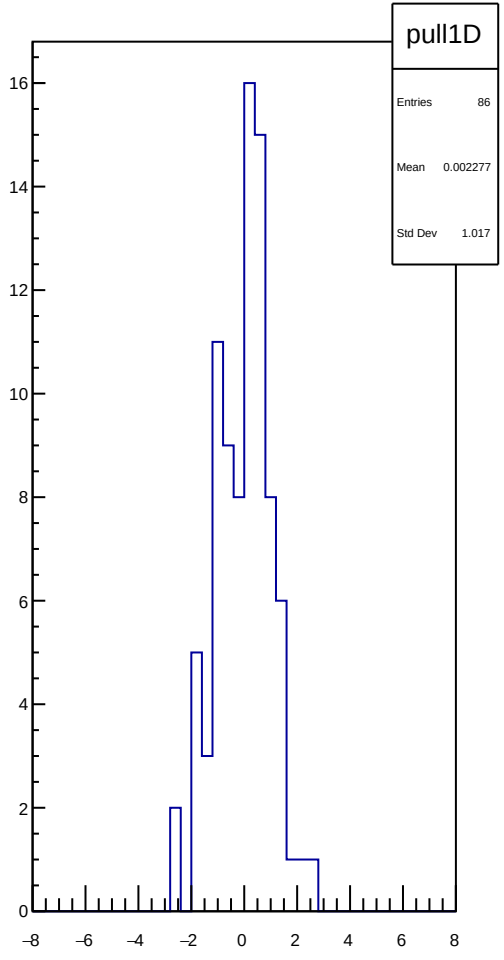

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1468 / 85
p0 2498 ± 1.964
2700
2600
2500
2400
2300

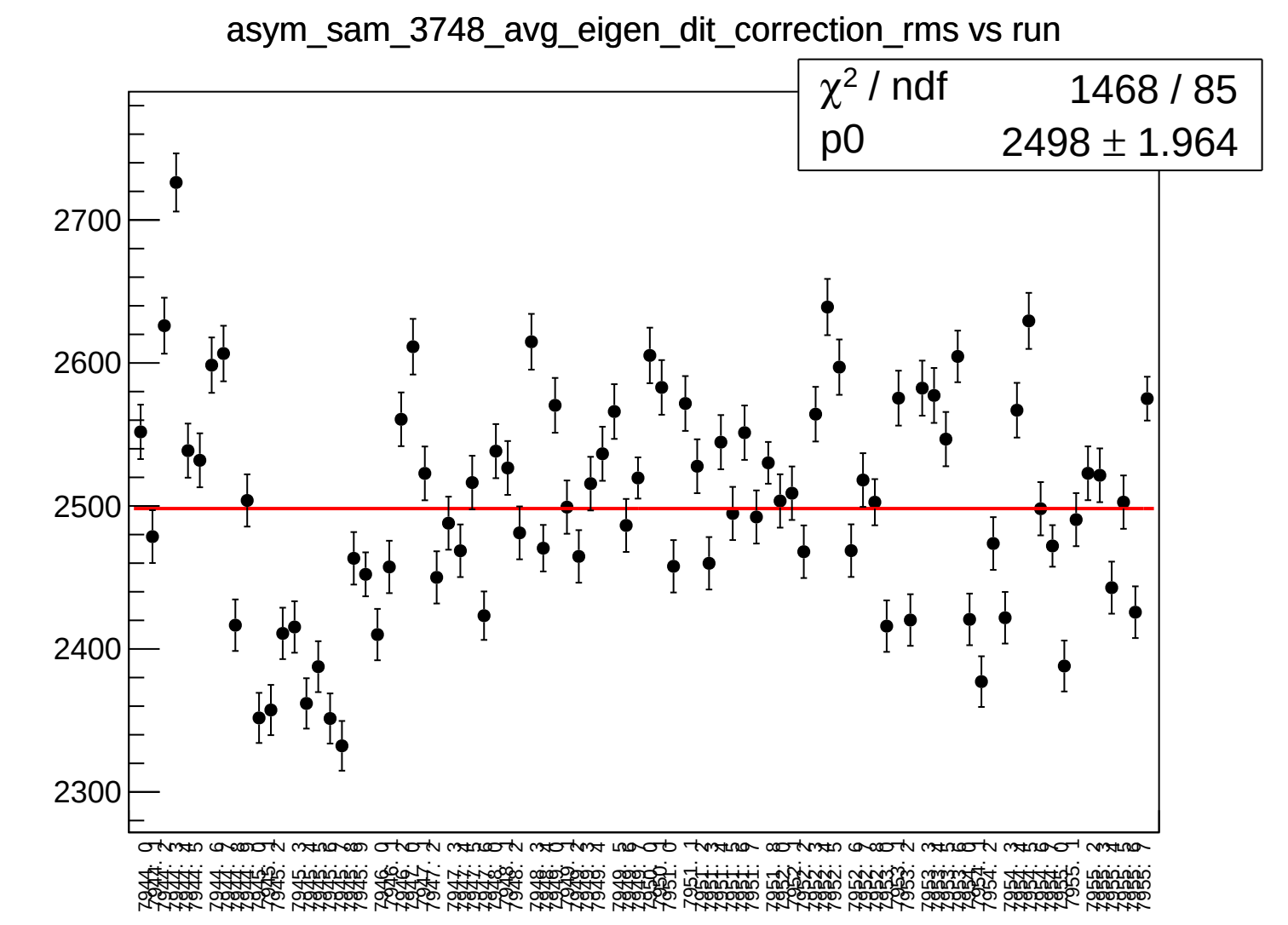

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 77.29 / 85
p0 18.18 ± 259.6
pull
Entries 86
Mean −150.8
Std Dev 0

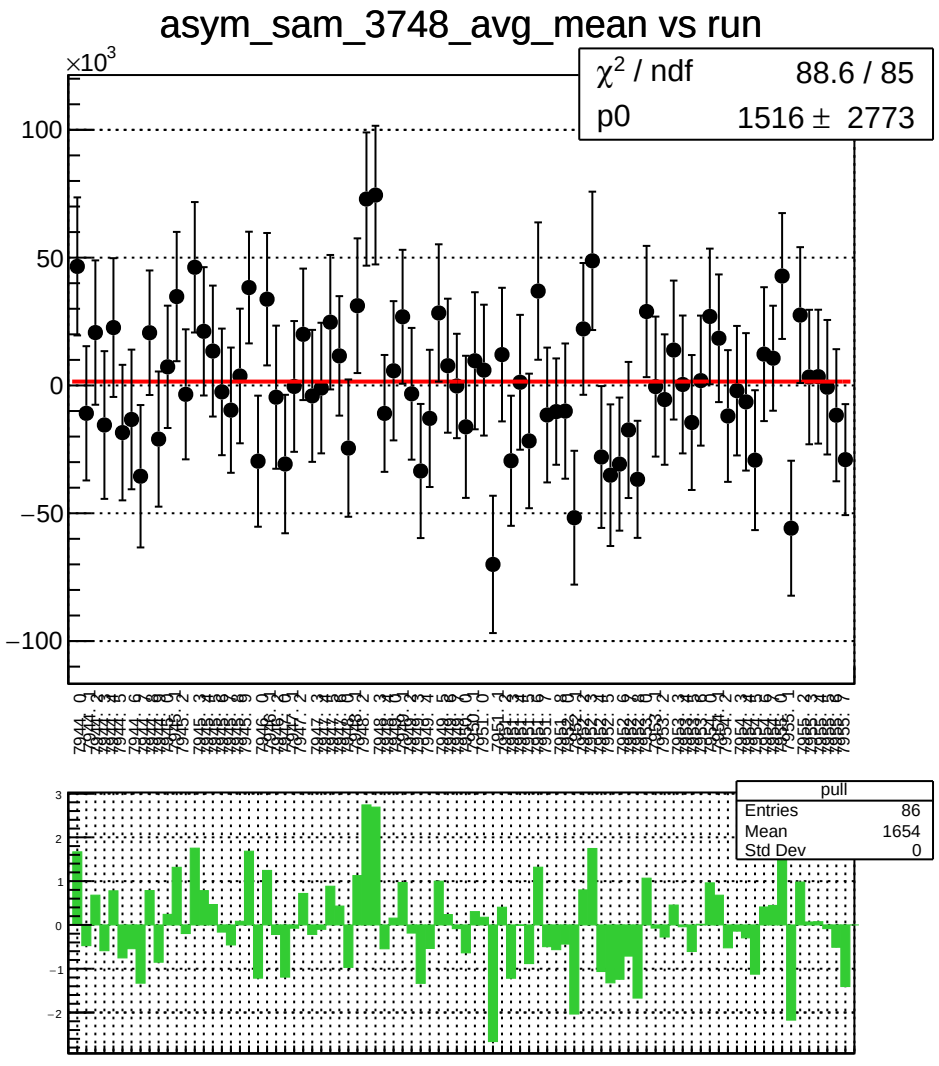

pull1D
Entries 86
Mean −0.009188
Std Dev 0.948

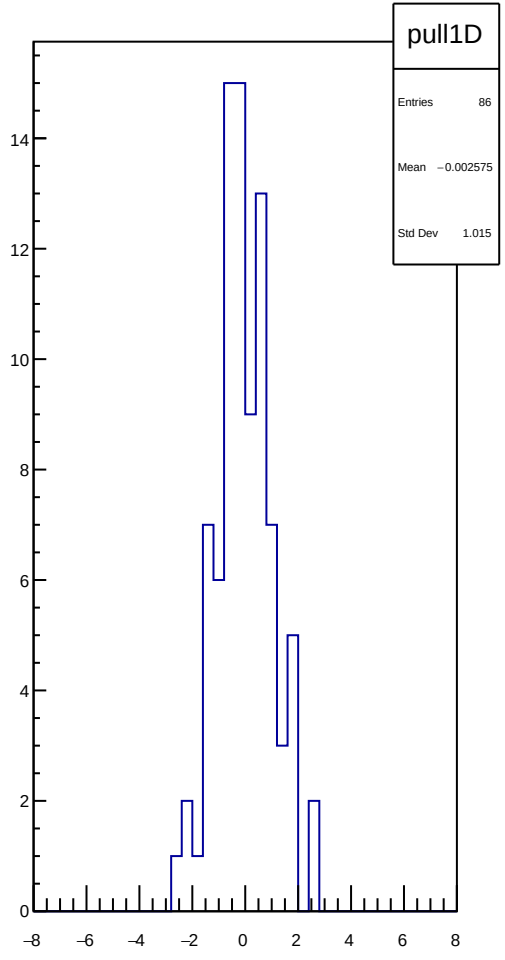

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 3.685e+04 / 85
p0 230.9 ± 0.1836
550
500
450
400
350
300
250
200
150

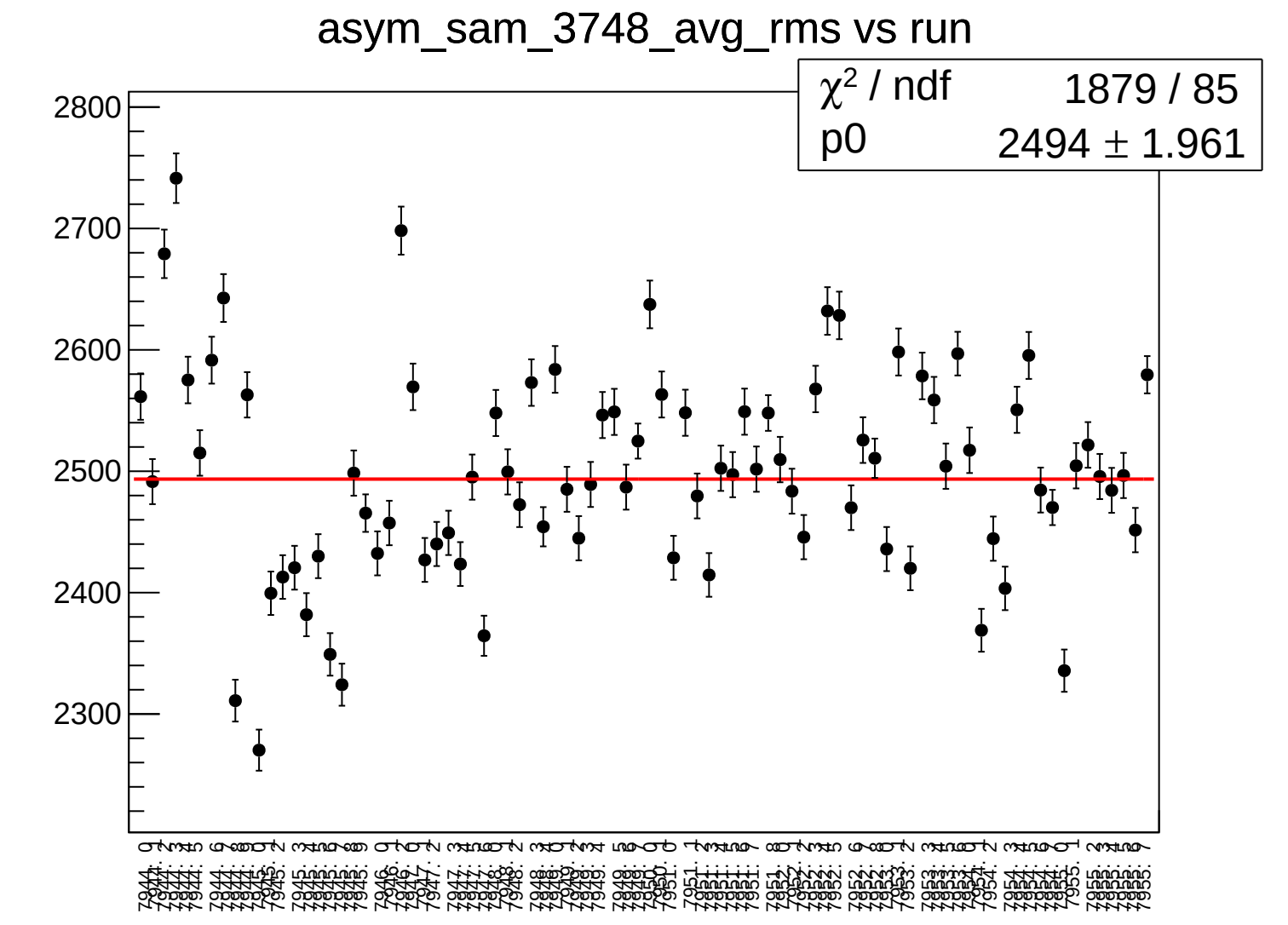

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.96 / 85
p0 −1575 ± 2778
100
50
0
−50
−100
pull
Entries 86
Mean 1988
Std Dev 0
2
1
0
−1
−2

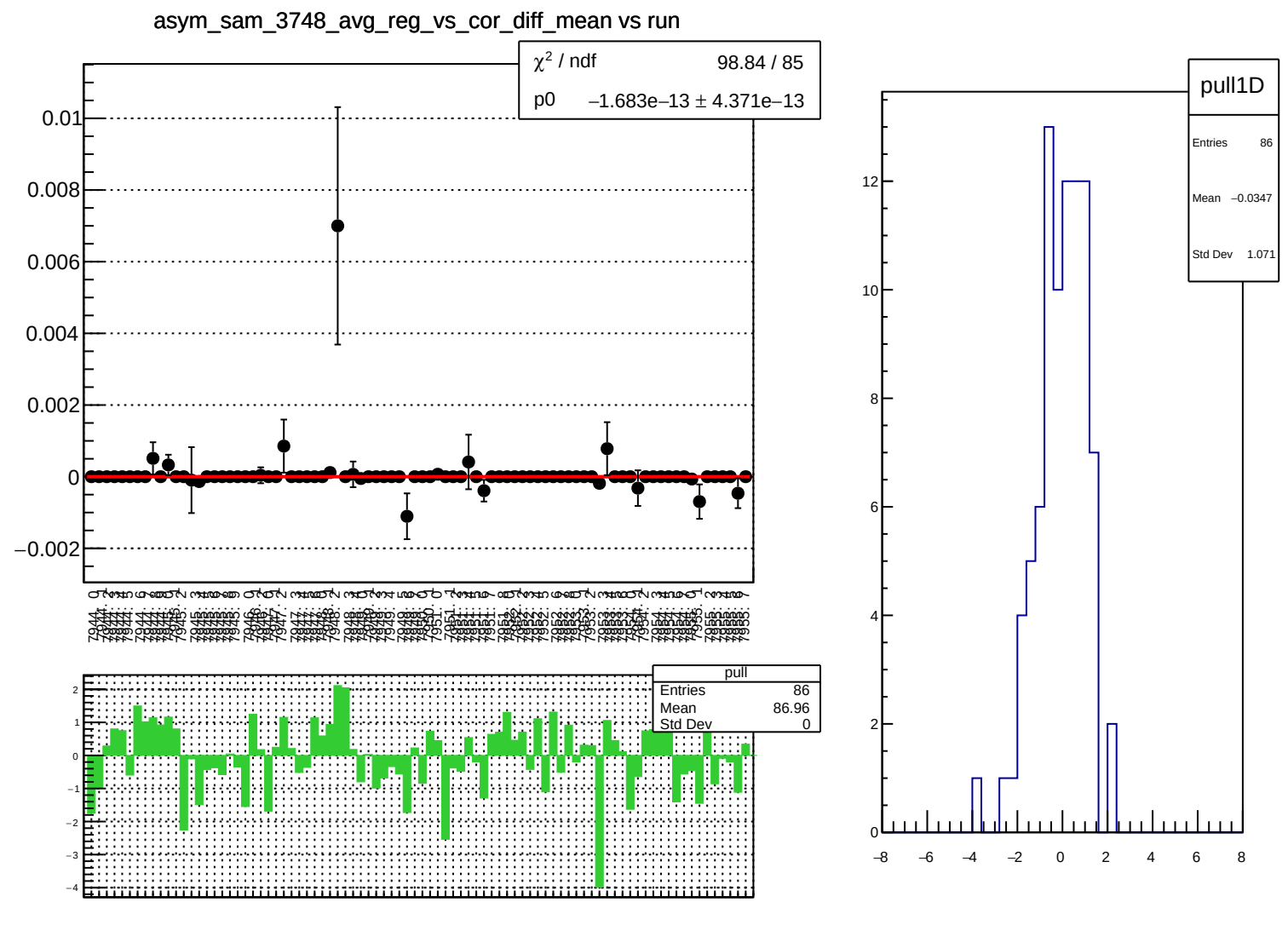

pull1D
Entries 86
Mean 0.002277
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

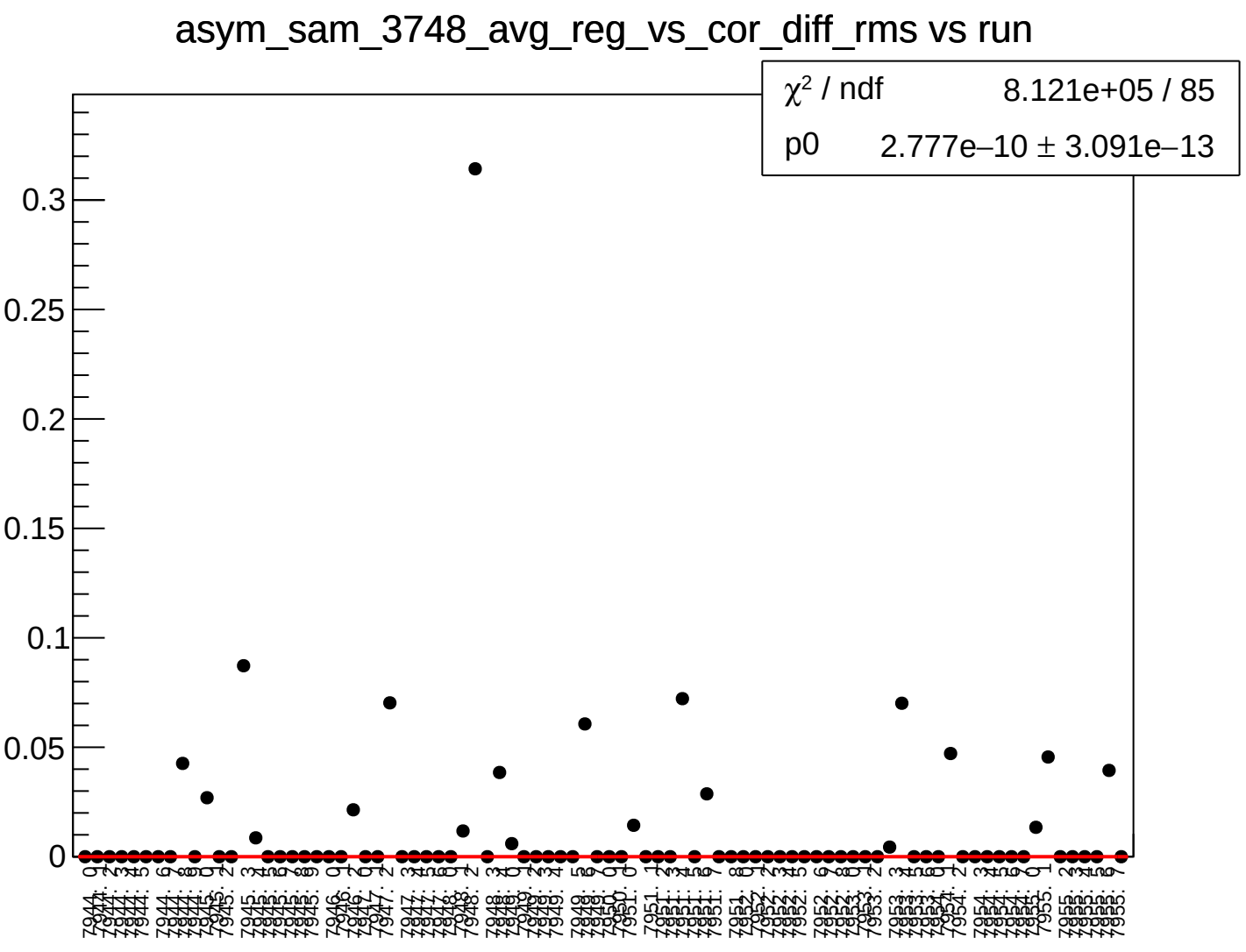

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1468 / 85
p0 2498 ± 1.964
2700
2600
2500
2400
2300

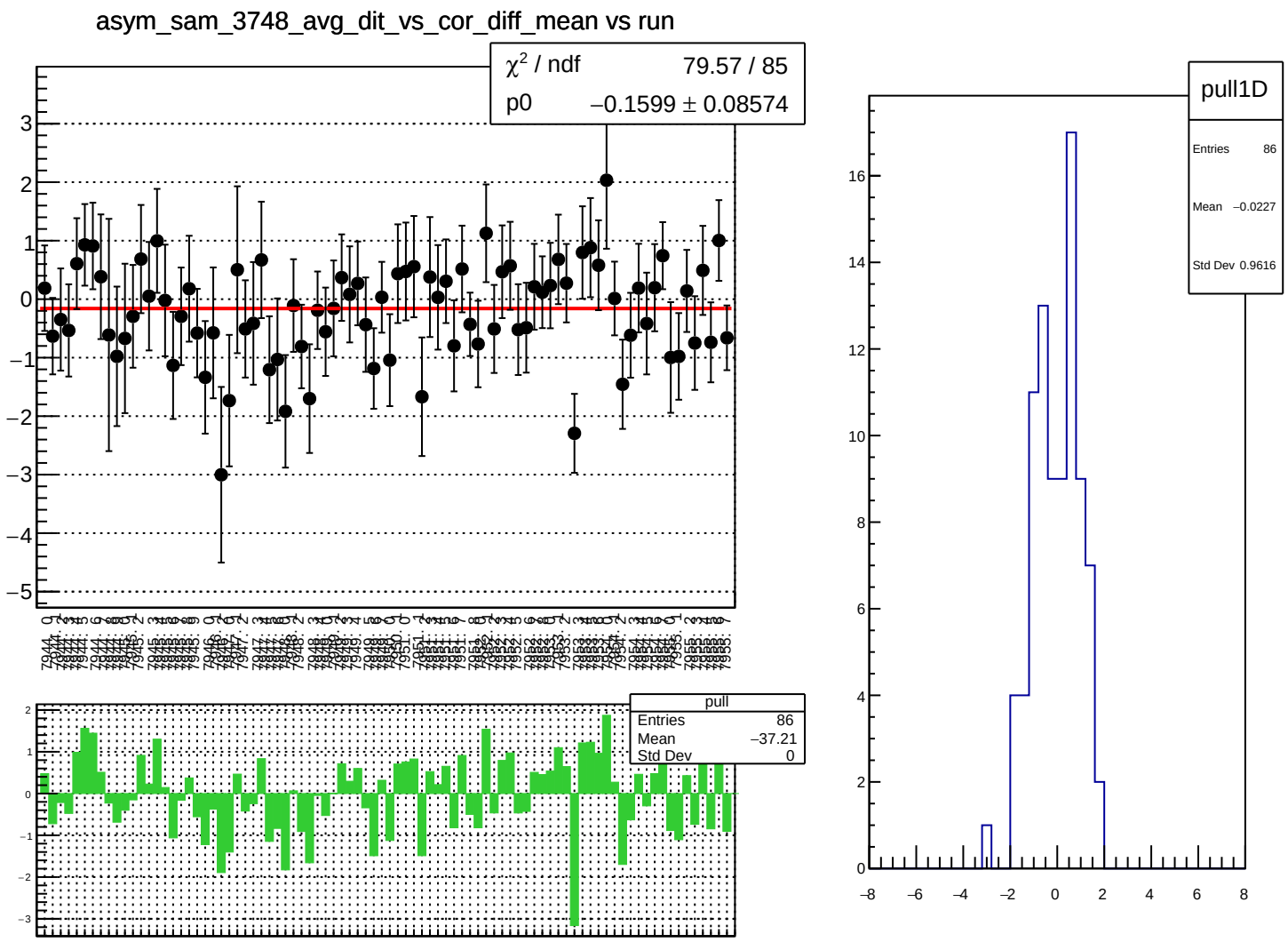

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 88.6 / 85
p0 1516 ± 2773
100
50
0
−50
−100
pull
Entries 86
Mean 1654
Std Dev 0
3
2
1
0
−1
−2

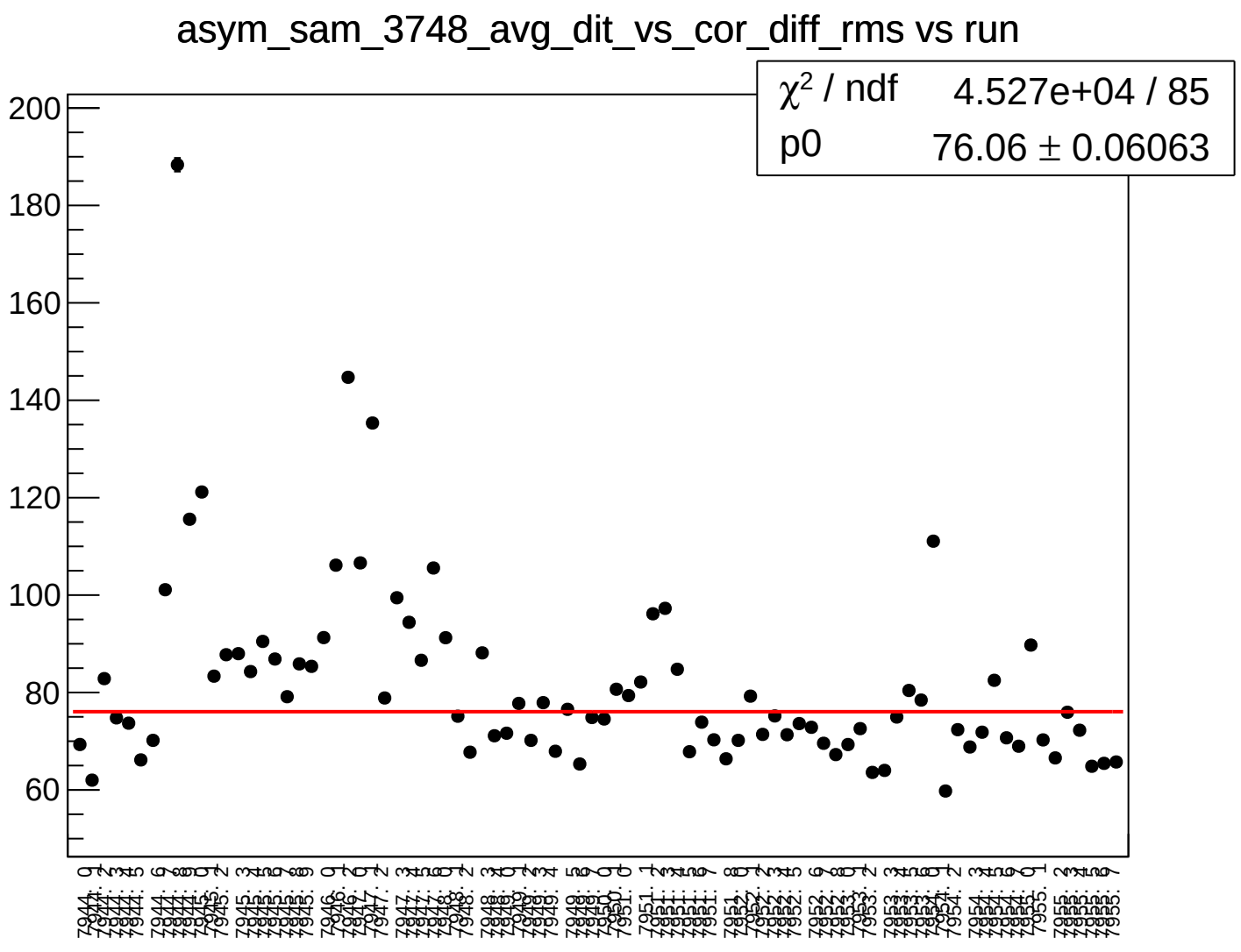

pull1D
Entries 86
Mean −0.002575
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

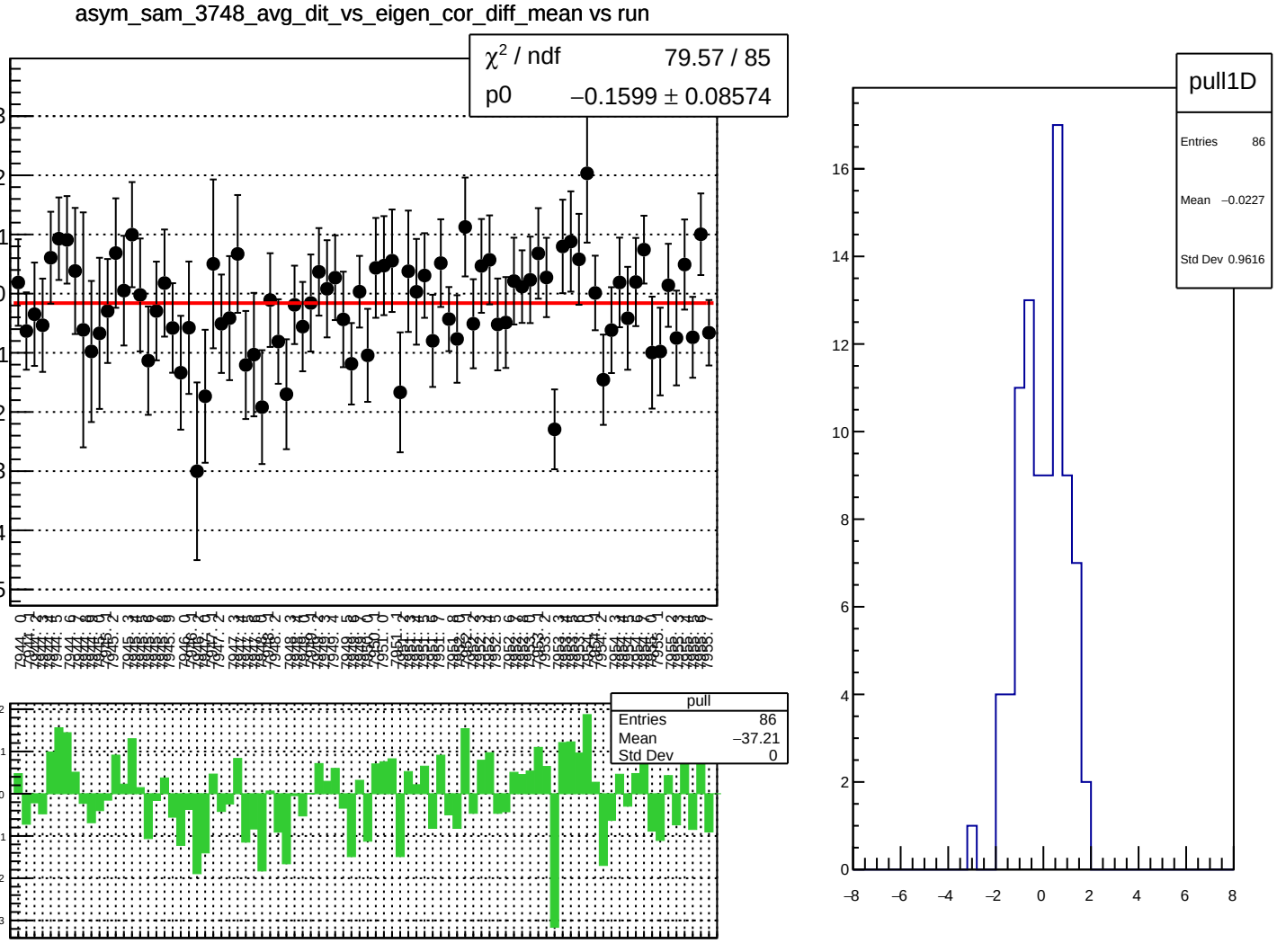

asym_sam_3748_avg_rms vs run
χ² / ndf 1879 / 85
p0 2494 ± 1.961
2800
2700
2600
2500
2400
2300

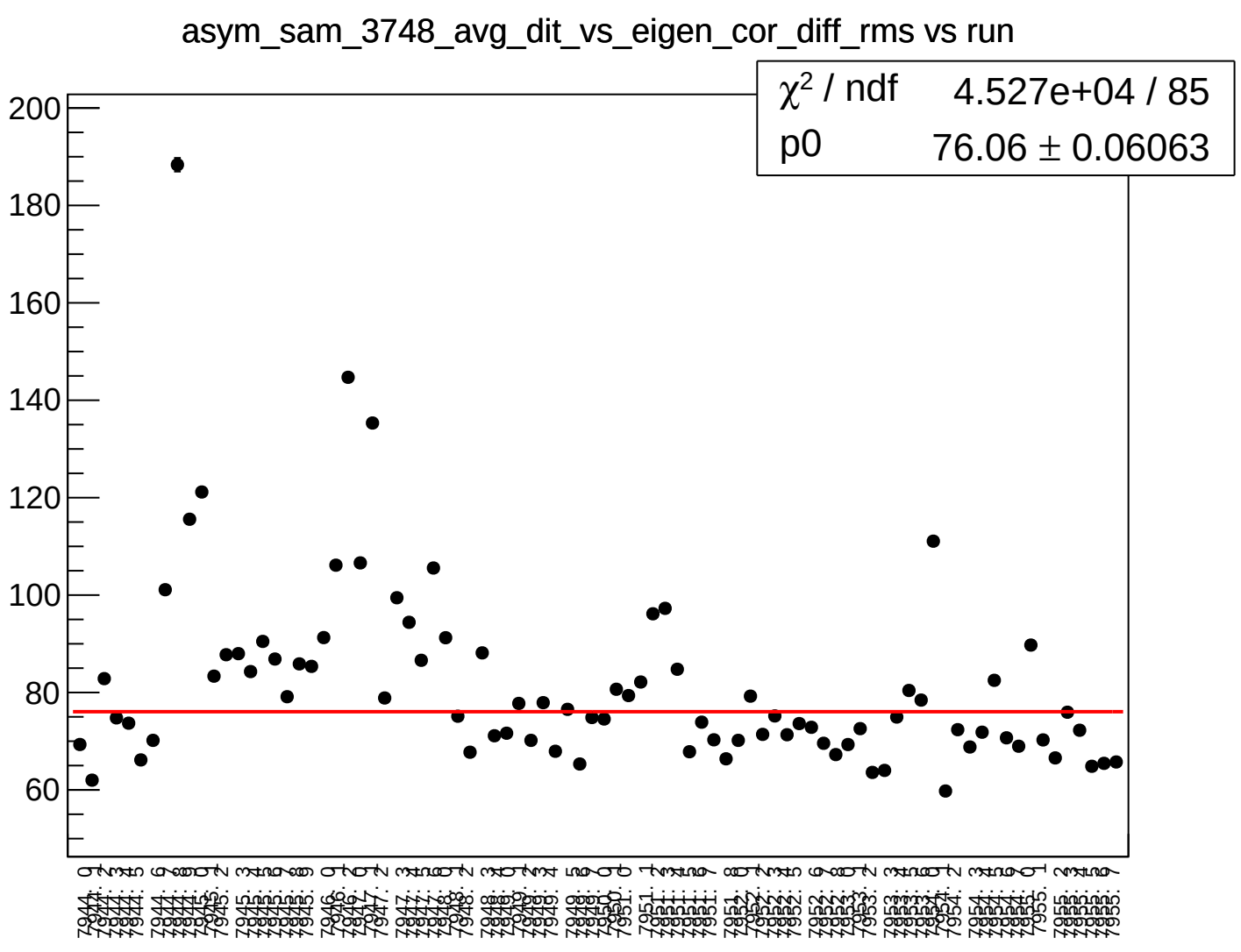

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.84 / 85
p0 −1.683e−13 ± 4.371e−13
pull
Entries 86
Mean 86.96
Std Dev 0
pull1D
Entries 86
Mean −0.0347
Std Dev 1.071

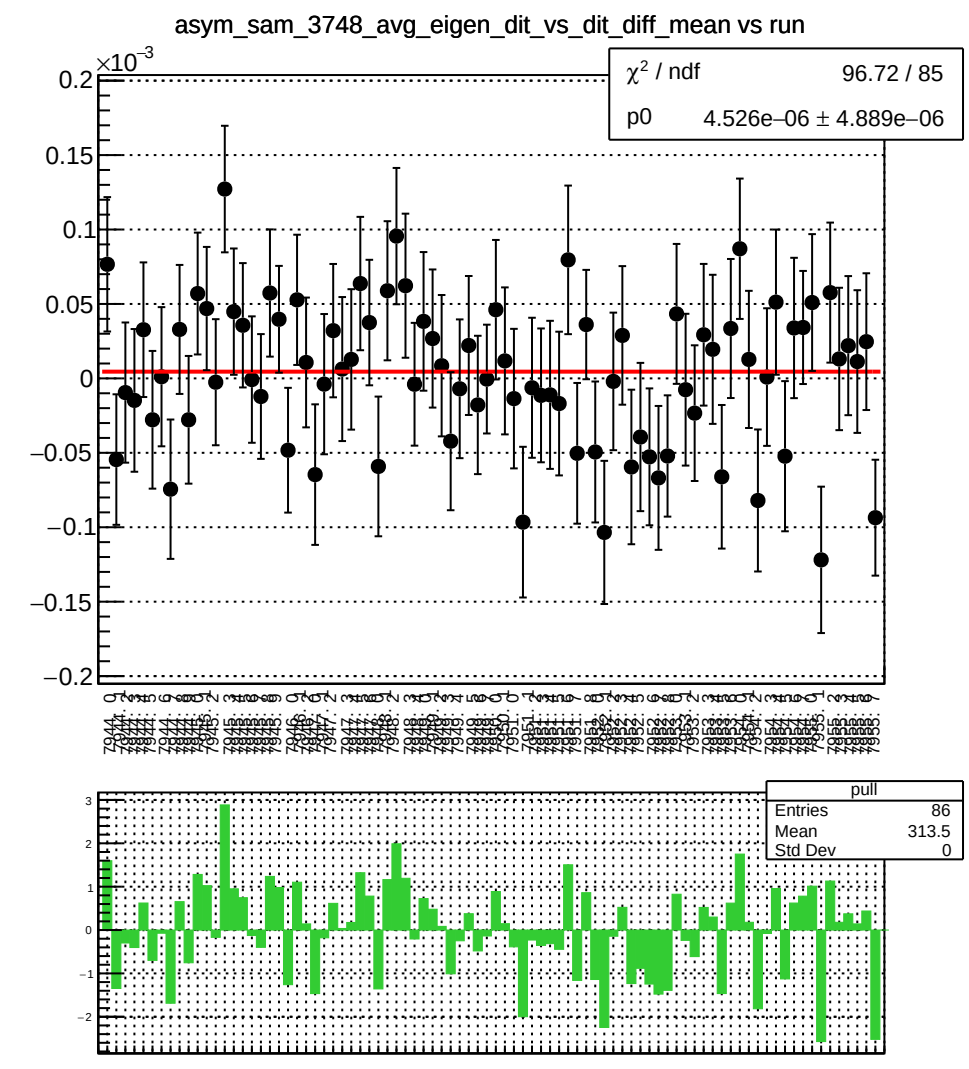

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.121e+05 / 85
p0 2.777e−10 ± 3.091e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

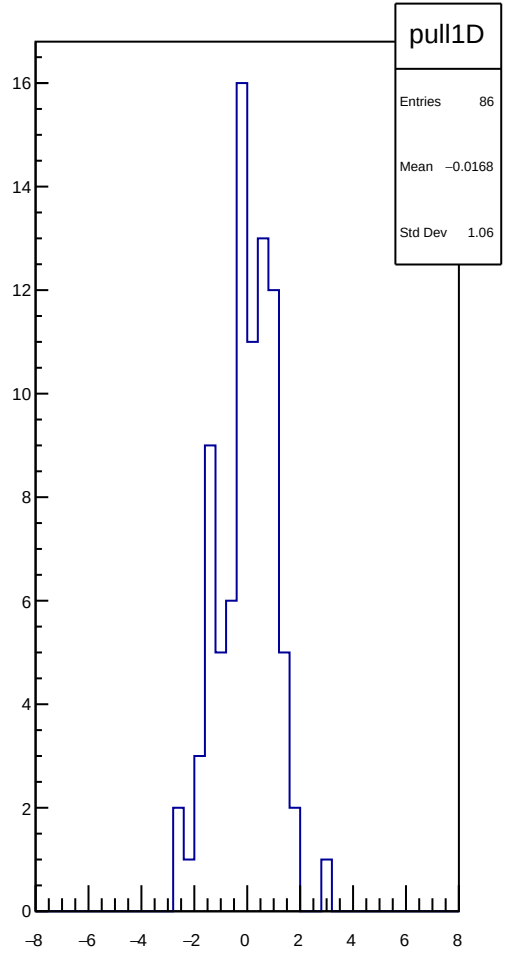

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.57 / 85
p0 −0.1599 ± 0.08574
pull
Entries 86
Mean −37.21
Std Dev 0
pull1D
Entries 86
Mean −0.0227
Std Dev 0.9616

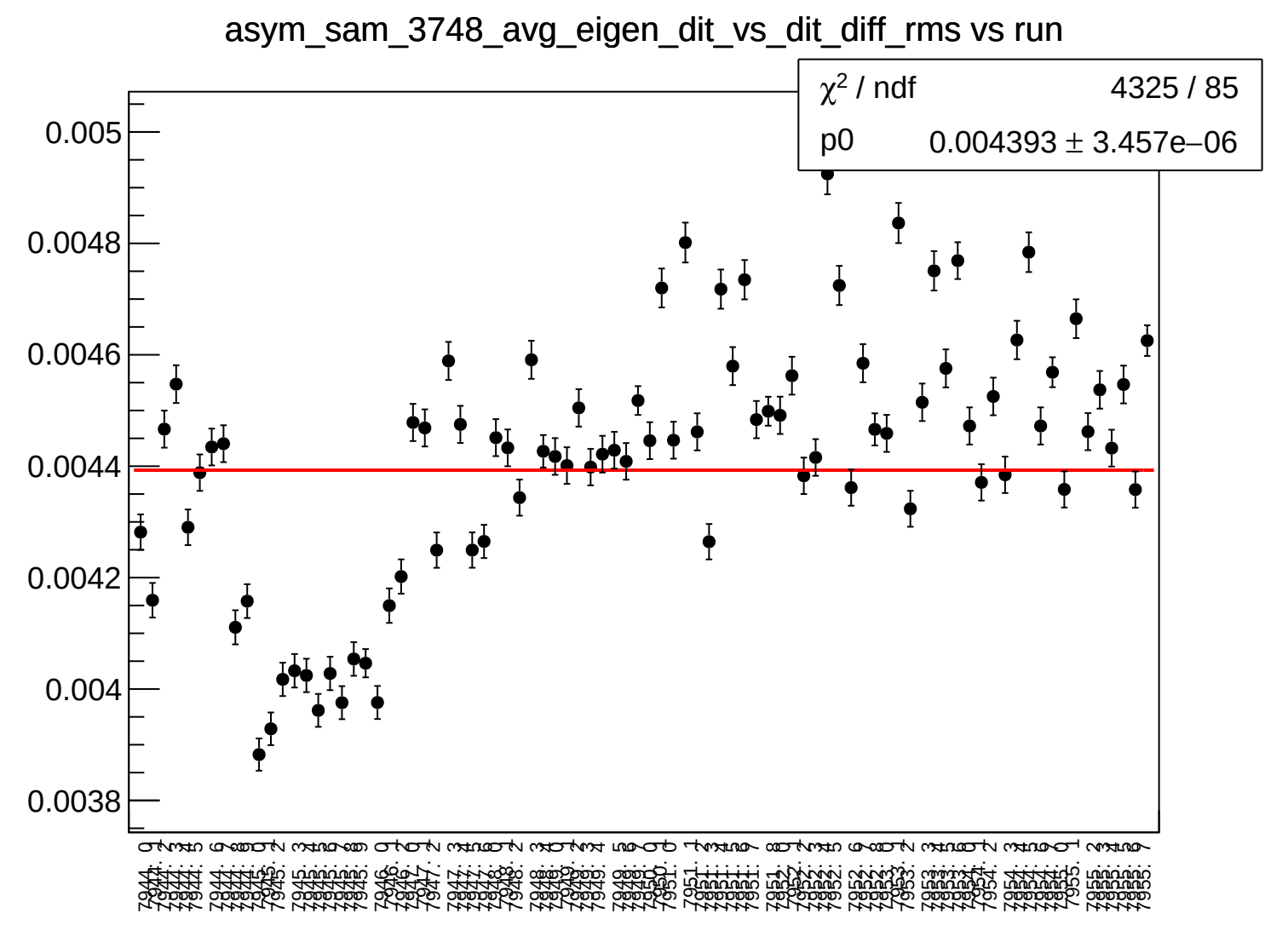

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.527e+04 / 85
p0 76.06 ± 0.06063
200
180
160
140
120
100
80
60

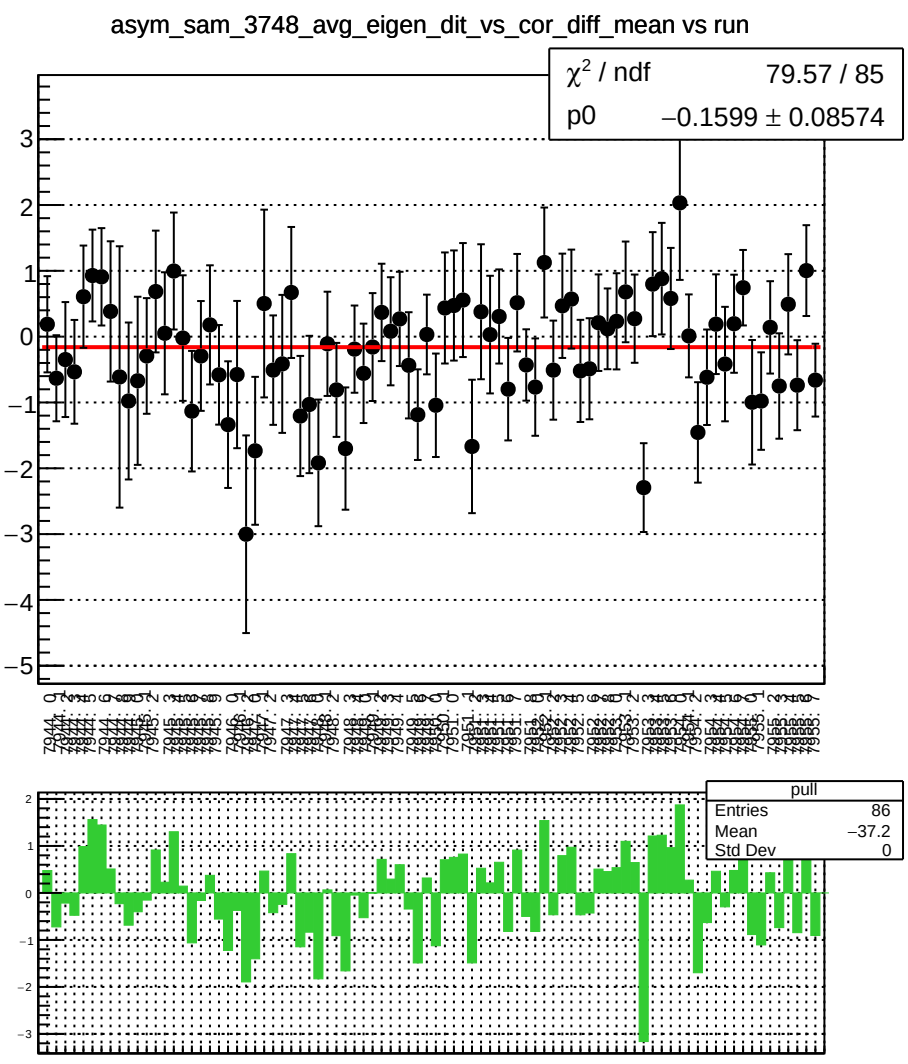

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.57 / 85
p0 −0.1599 ± 0.08574
pull
Entries 86
Mean −37.21
Std Dev 0
pull1D
Entries 86
Mean −0.0227
Std Dev 0.9616

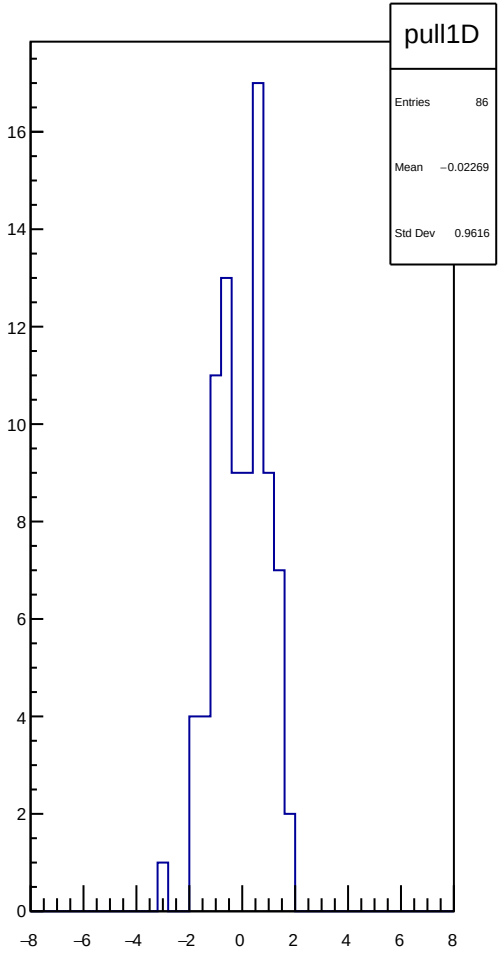

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.527e+04 / 85
p0 76.06 ± 0.06063
200
180
160
140
120
100
80
60

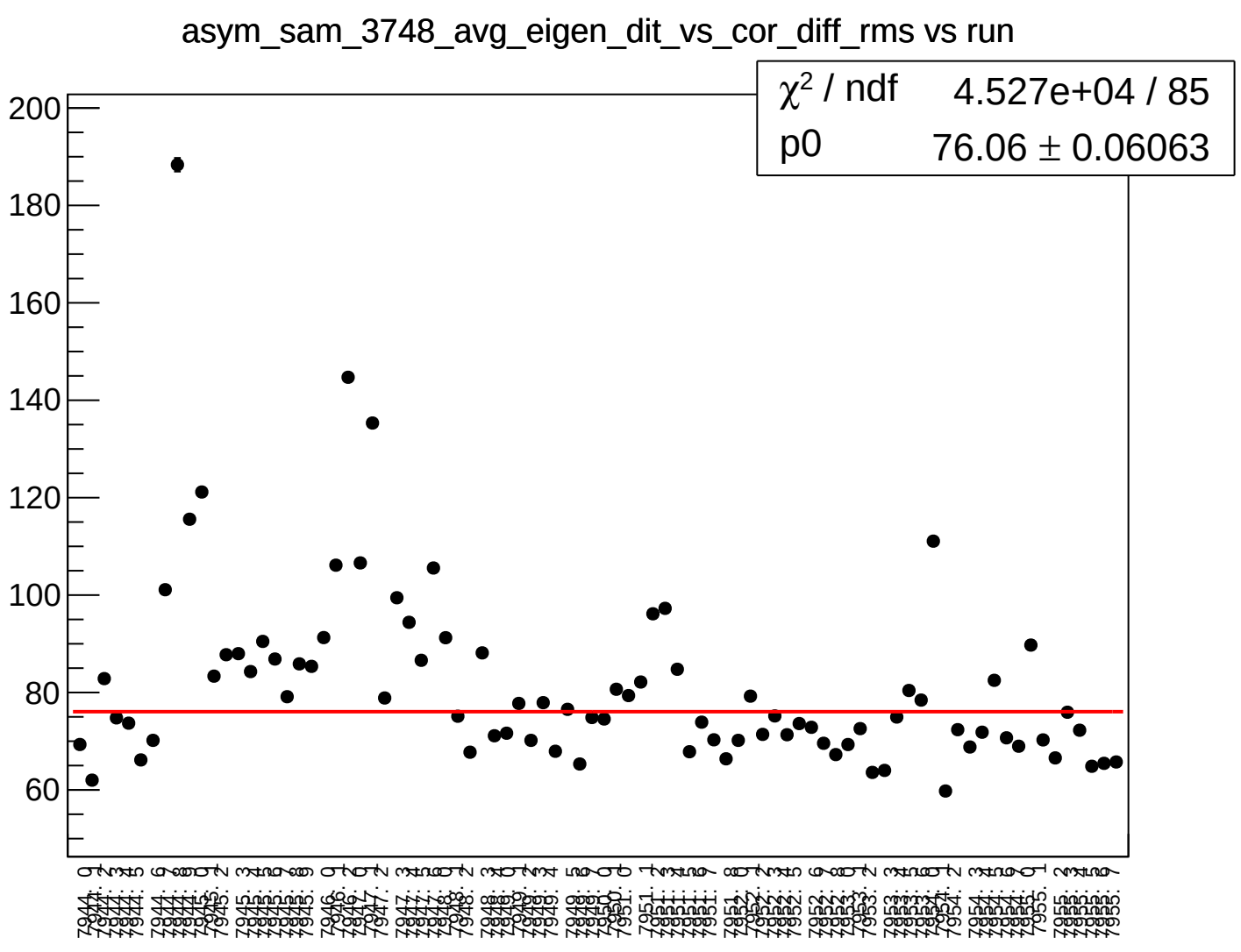

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.72 / 85
p0 4.526e−06 ± 4.889e−06
pull
Entries 86
Mean 313.5
Std Dev 0

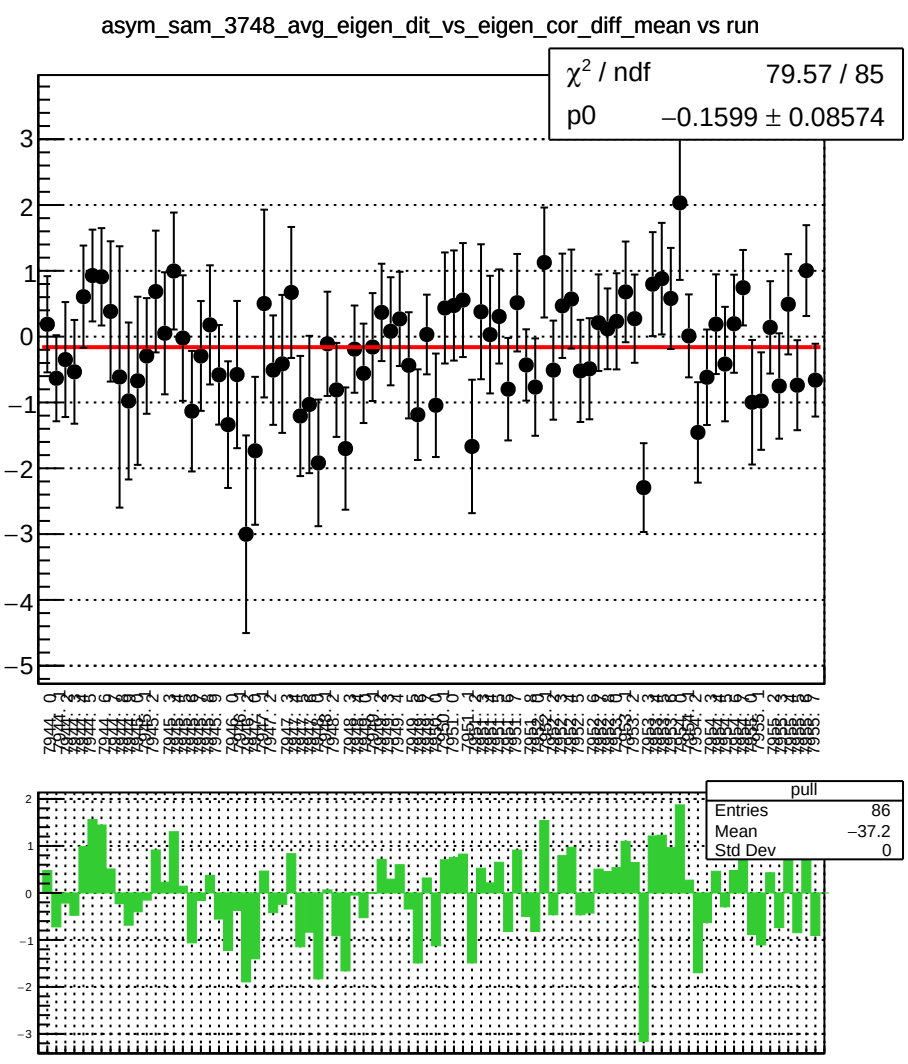

pull1D
Entries 86
Mean −0.0168
Std Dev 1.06

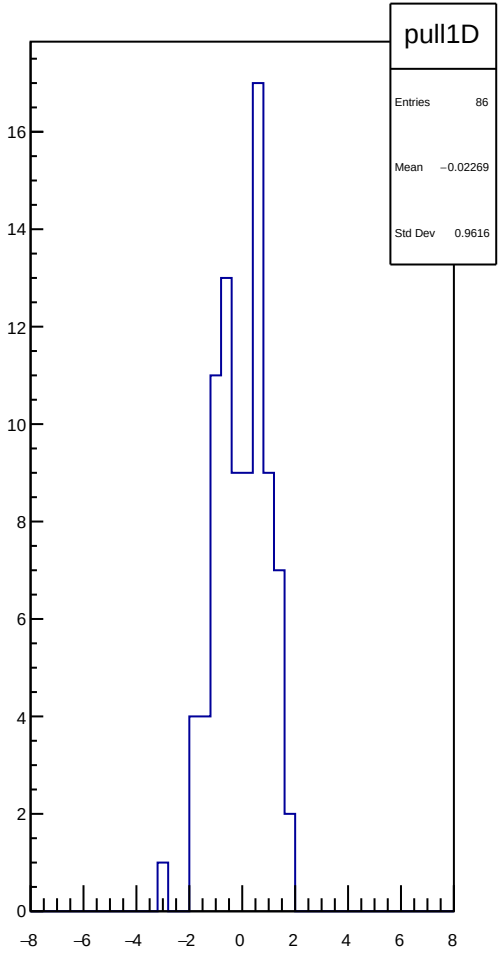

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4325 / 85
p0 0.004393 ± 3.457e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

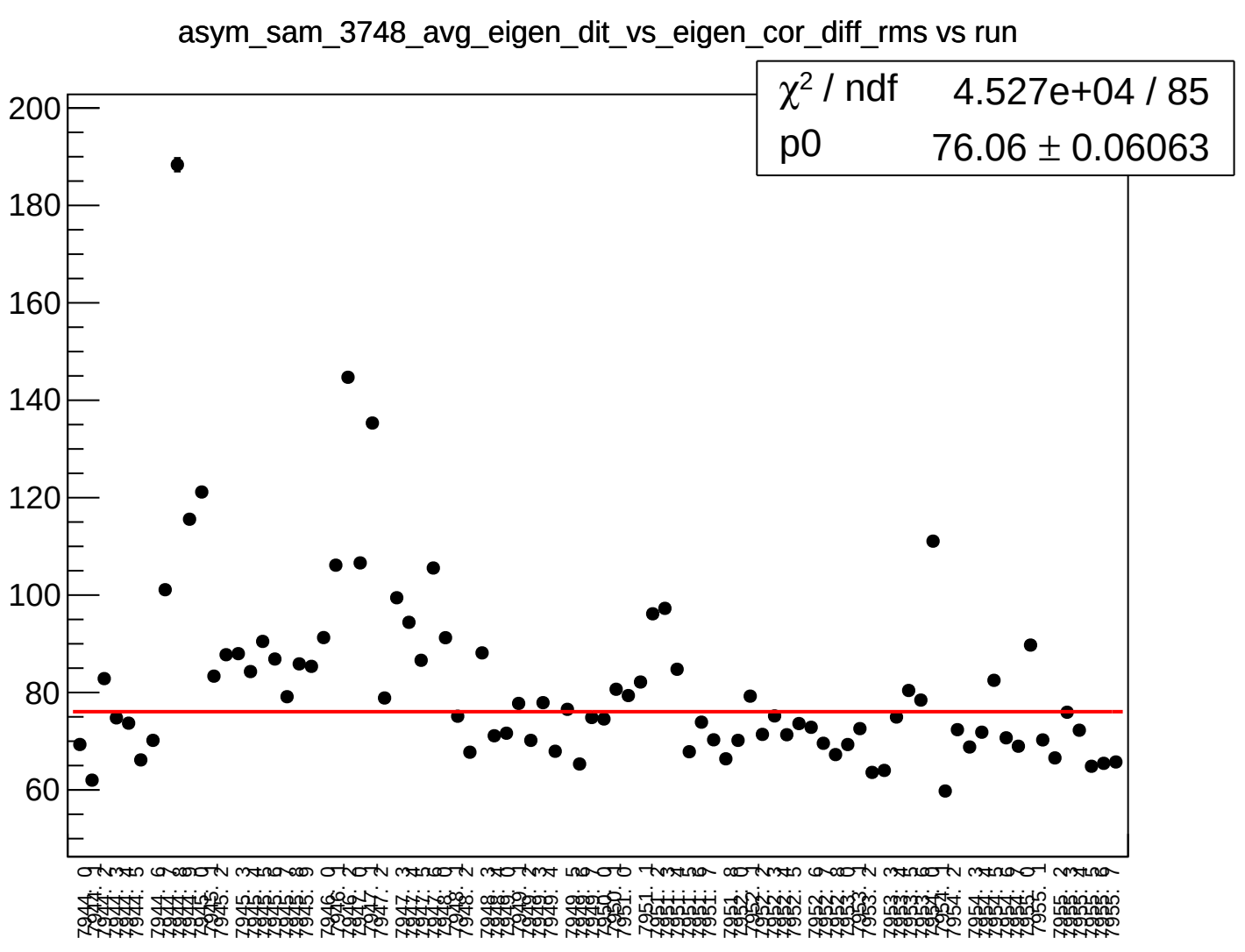

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.57 / 85
p0 −0.1599 ± 0.08574
pull
Entries 86
Mean −37.2
Std Dev 0

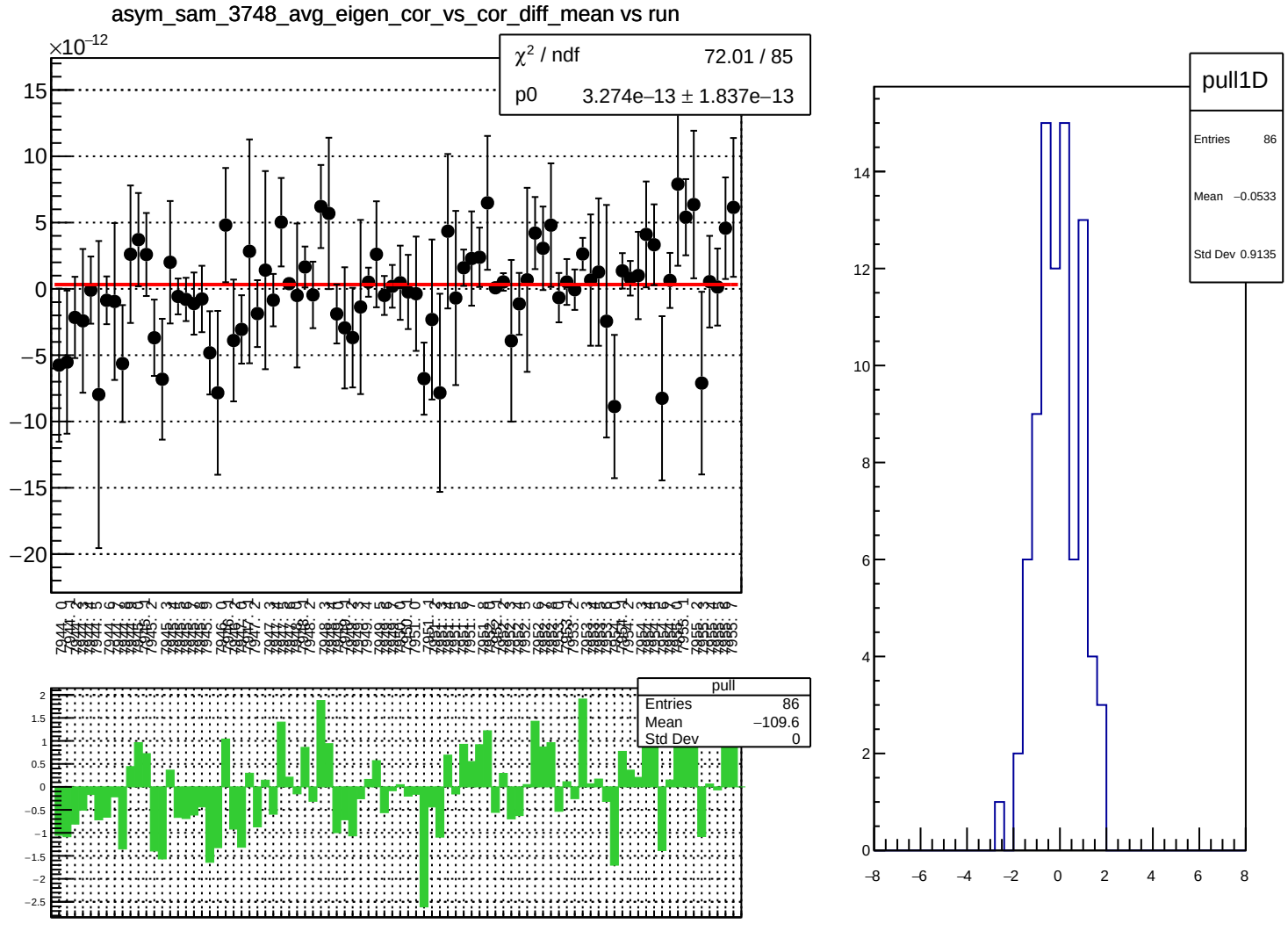

pull1D
Entries 86
Mean −0.02269
Std Dev 0.9616

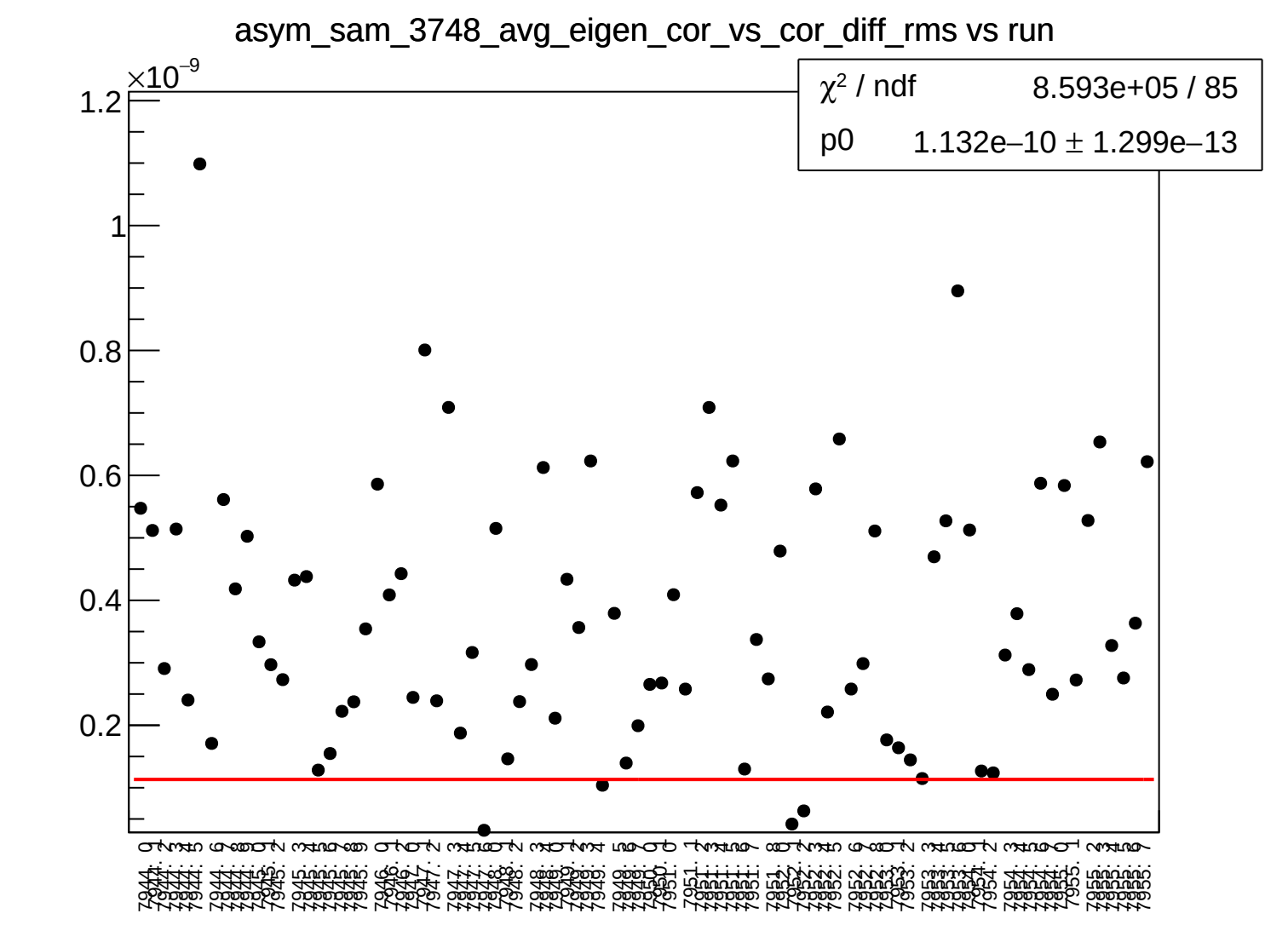

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.527e+04 / 85
p0 76.06 ± 0.06063
200
180
160
140
120
100
80
60

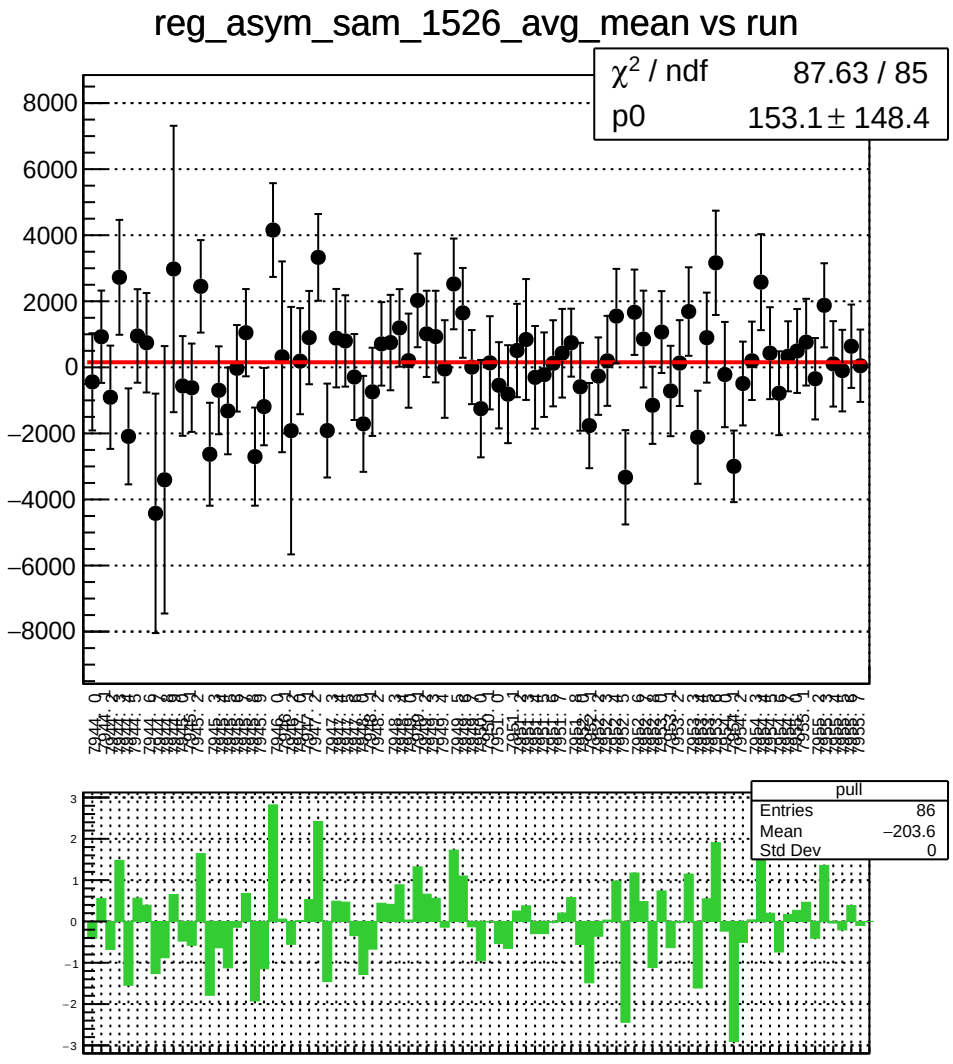

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.57 / 85
p0 −0.1599 ± 0.08574
pull
Entries 86
Mean −37.2
Std Dev 0

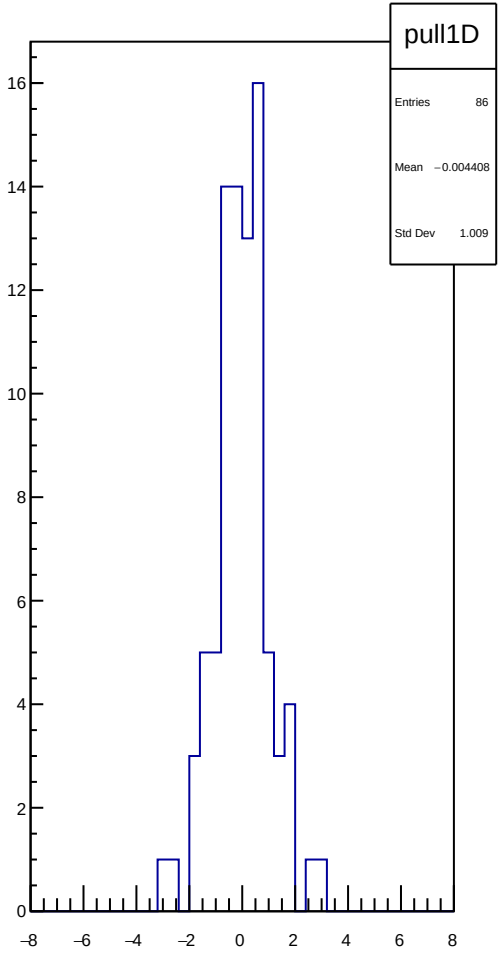

pull1D
Entries 86
Mean −0.02269
Std Dev 0.9616

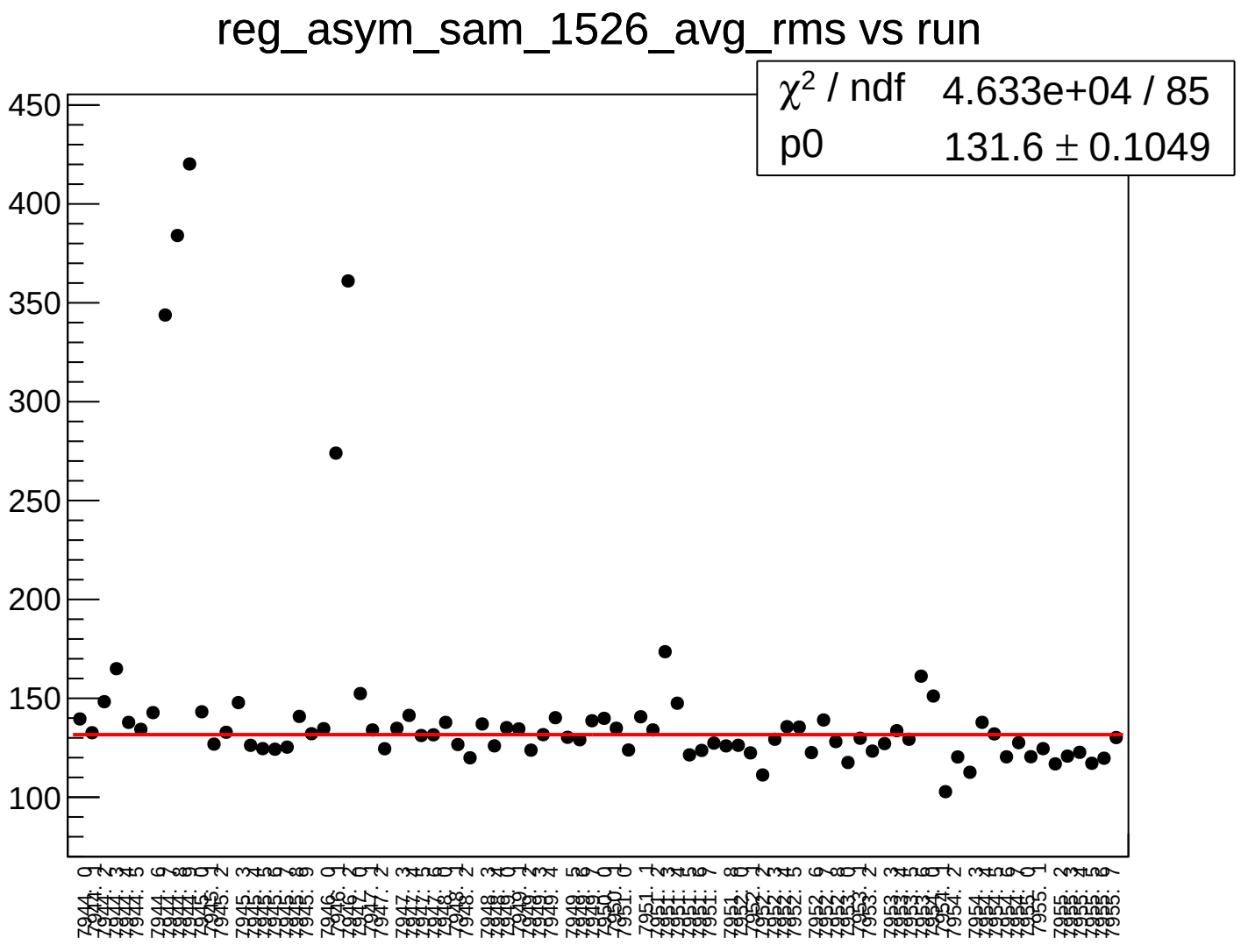

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.527e+04 / 85
p0 76.06 ± 0.06063
200
180
160
140
120
100
80
60

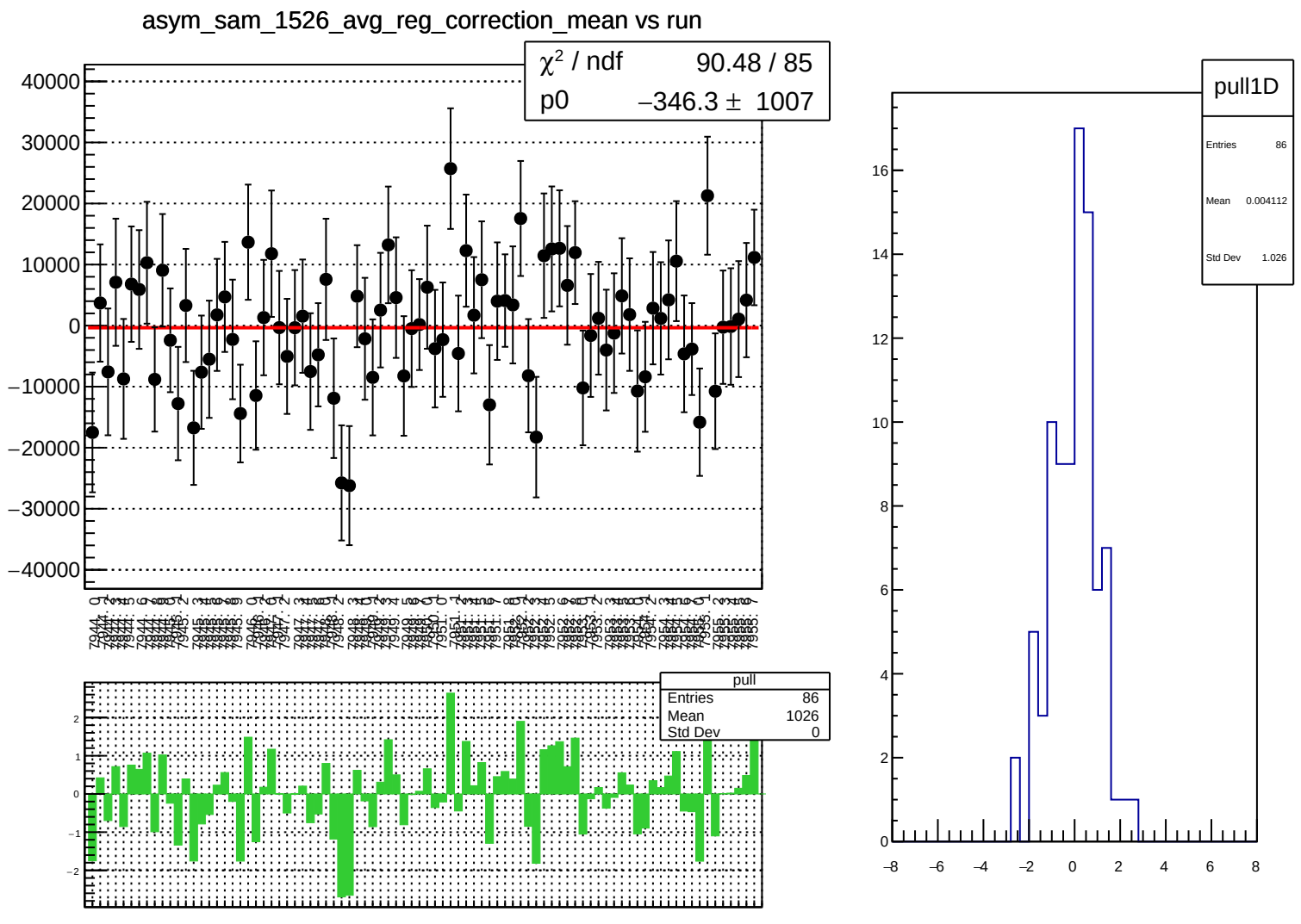

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.01 / 85
p0 3.274e−13 ± 1.837e−13
pull
Entries 86
Mean −109.6
Std Dev 0
pull1D
Entries 86
Mean −0.0533
Std Dev 0.9135

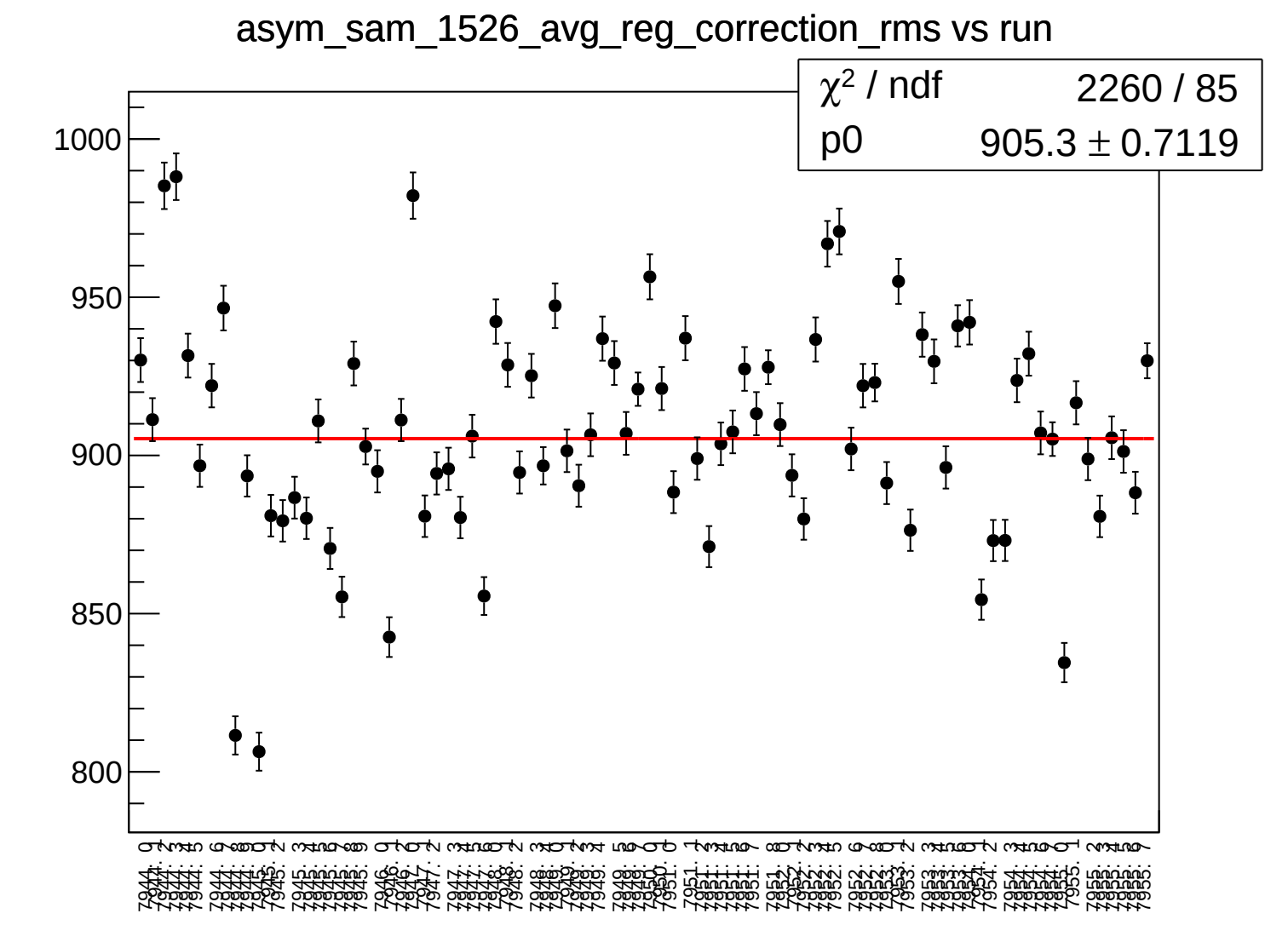

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.593e+05 / 85
p0 1.132e−10 ± 1.299e−13
1.2
1
0.8
0.6
0.4
0.2

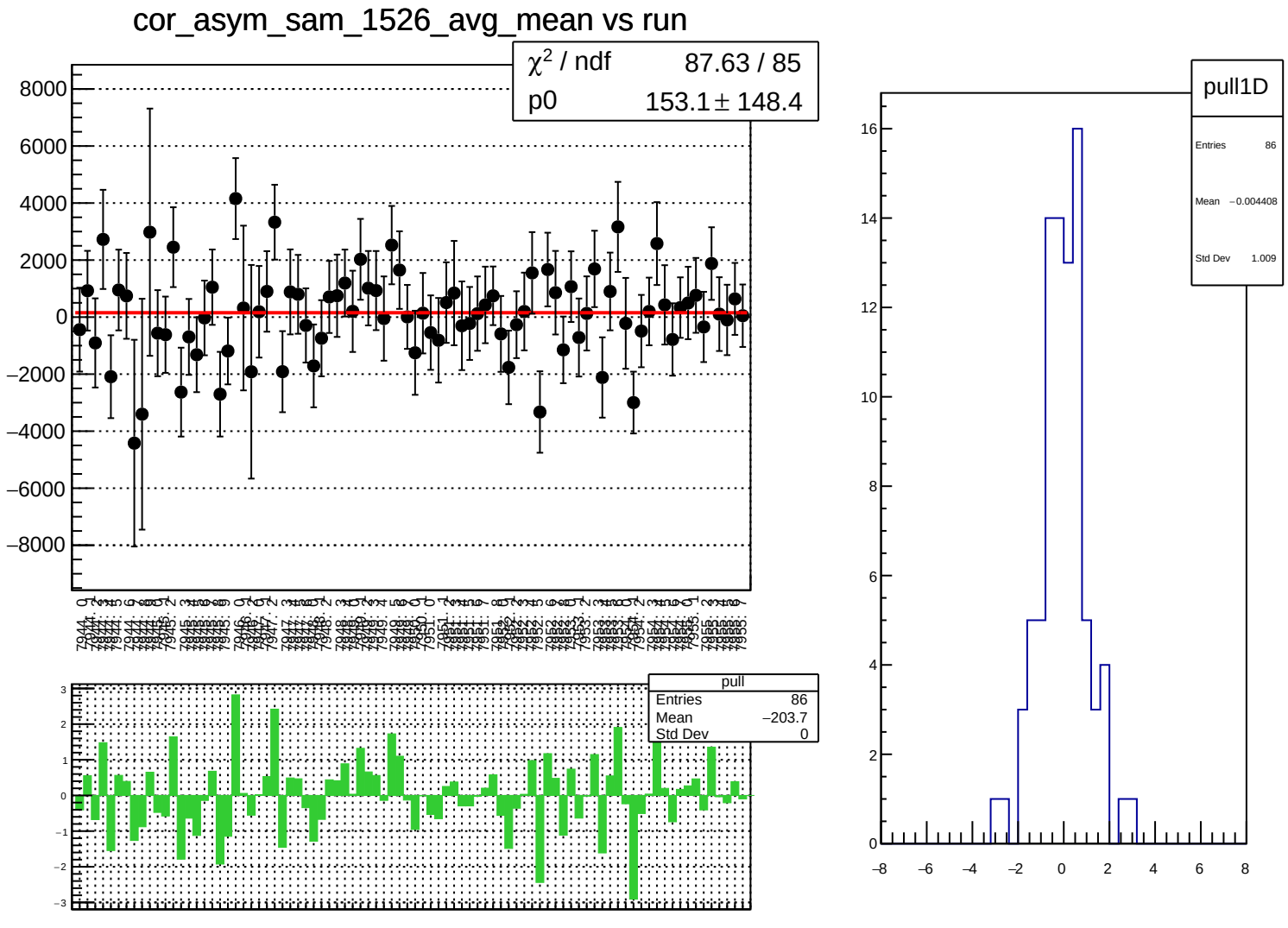

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 87.63 / 85
p0 153.1 ± 148.4
pull
Entries 86
Mean −203.6
Std Dev 0

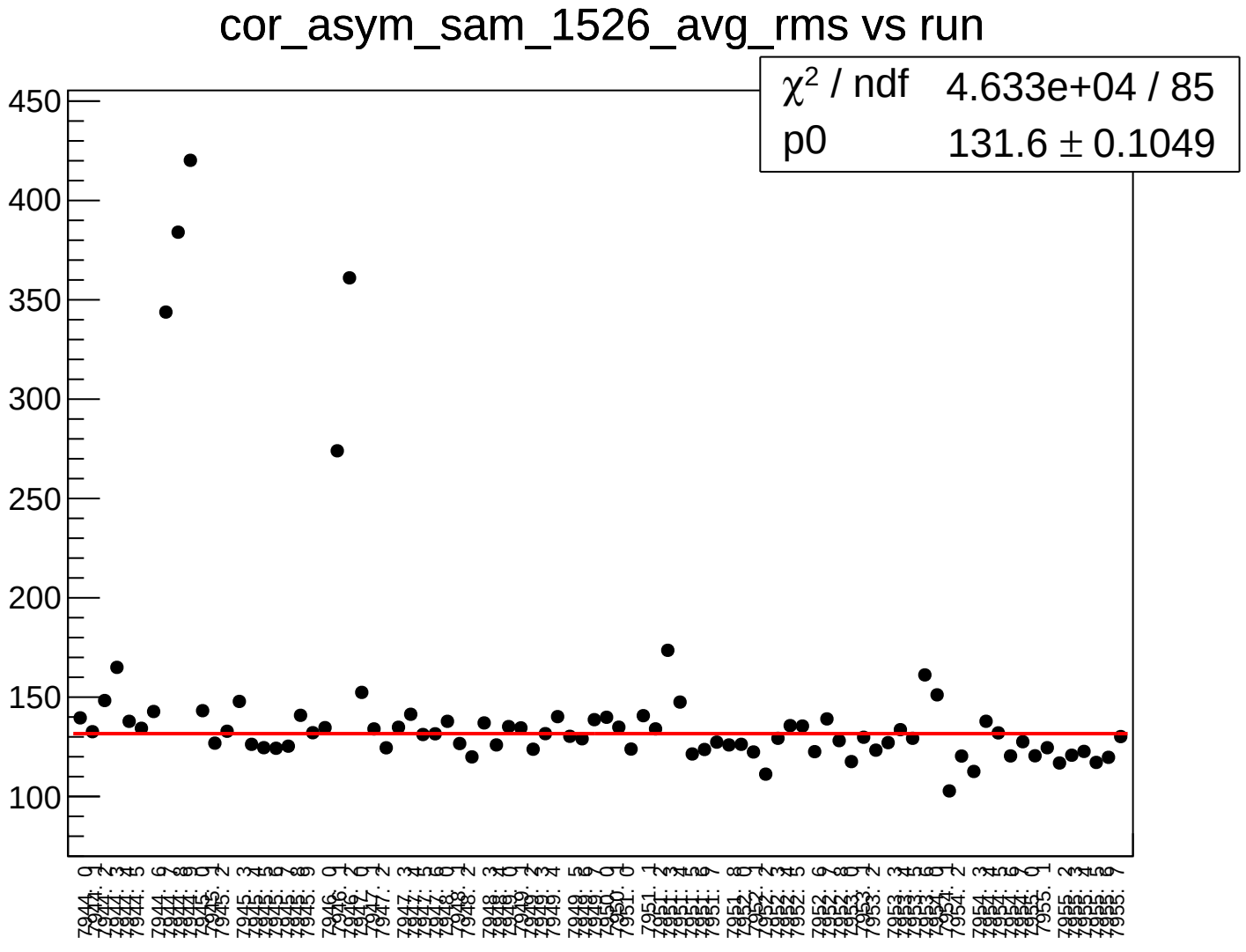

pull1D
Entries 86
Mean −0.004408
Std Dev 1.009

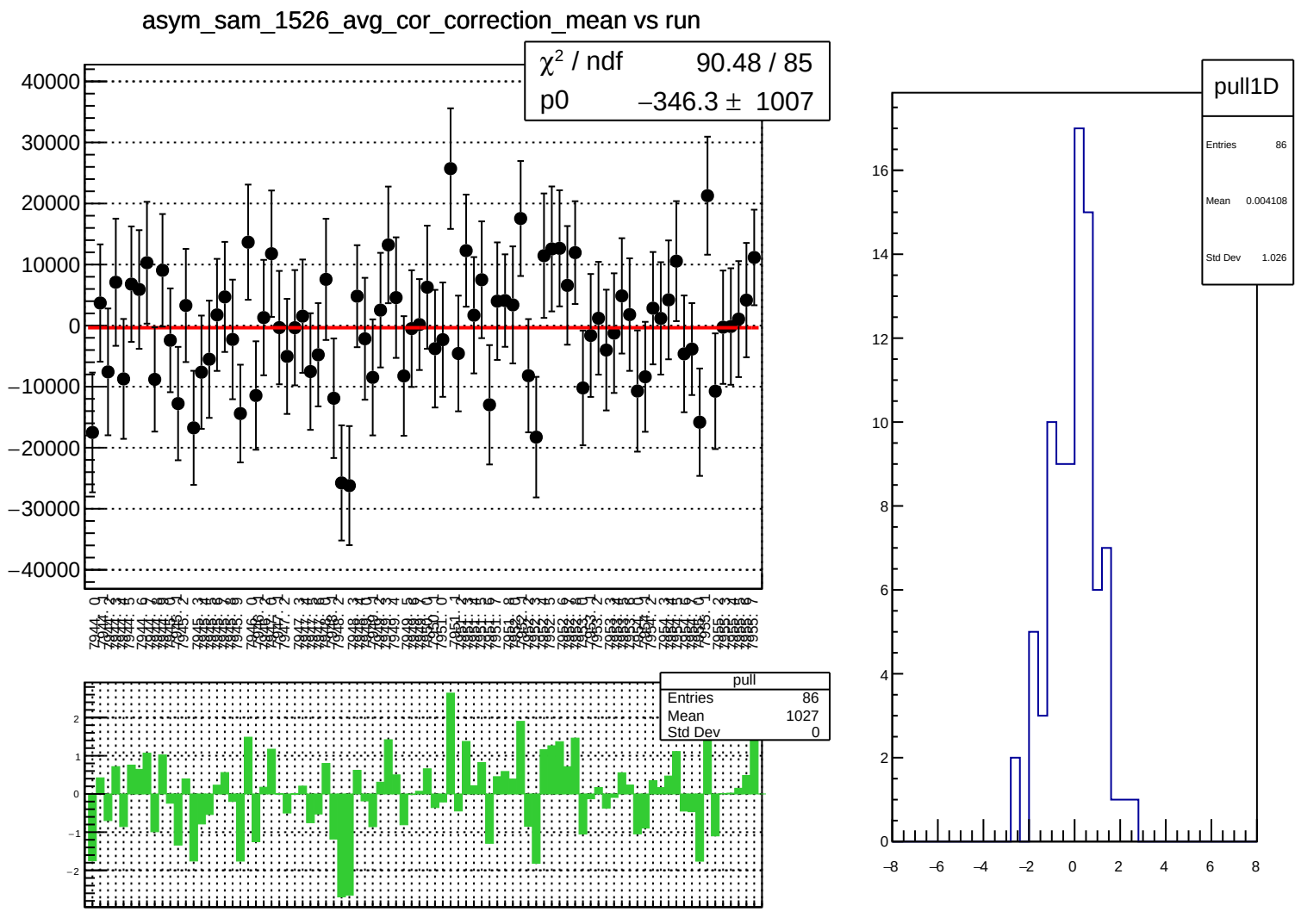

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4.633e+04 / 85
p0 131.6 ± 0.1049
450
400
350
300
250
200
150
100

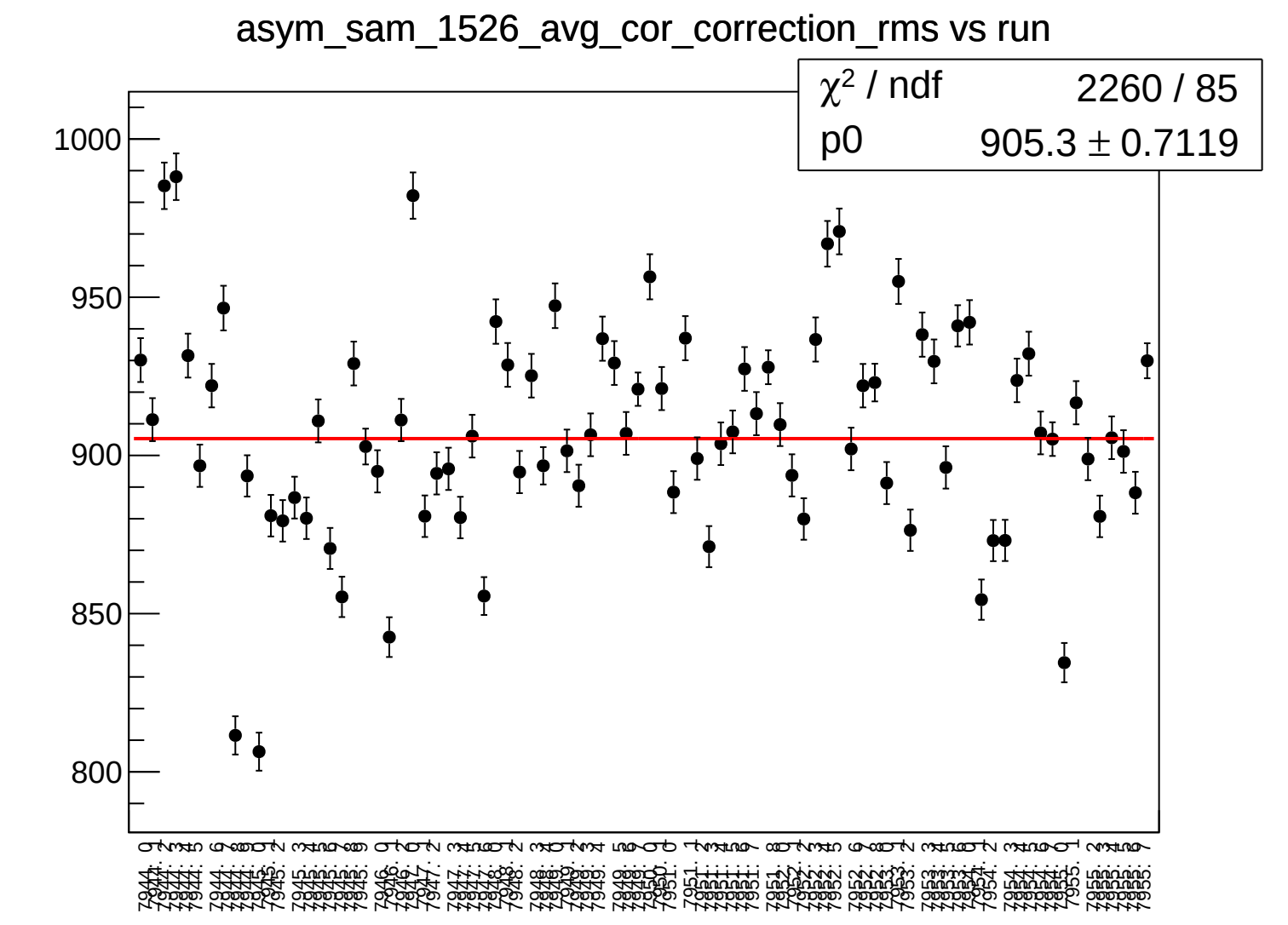

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 90.48 / 85
p0 −346.3 ± 1007
pull
Entries 86
Mean 1026
Std Dev 0
pull1D
Entries 86
Mean 0.004112
Std Dev 1.026

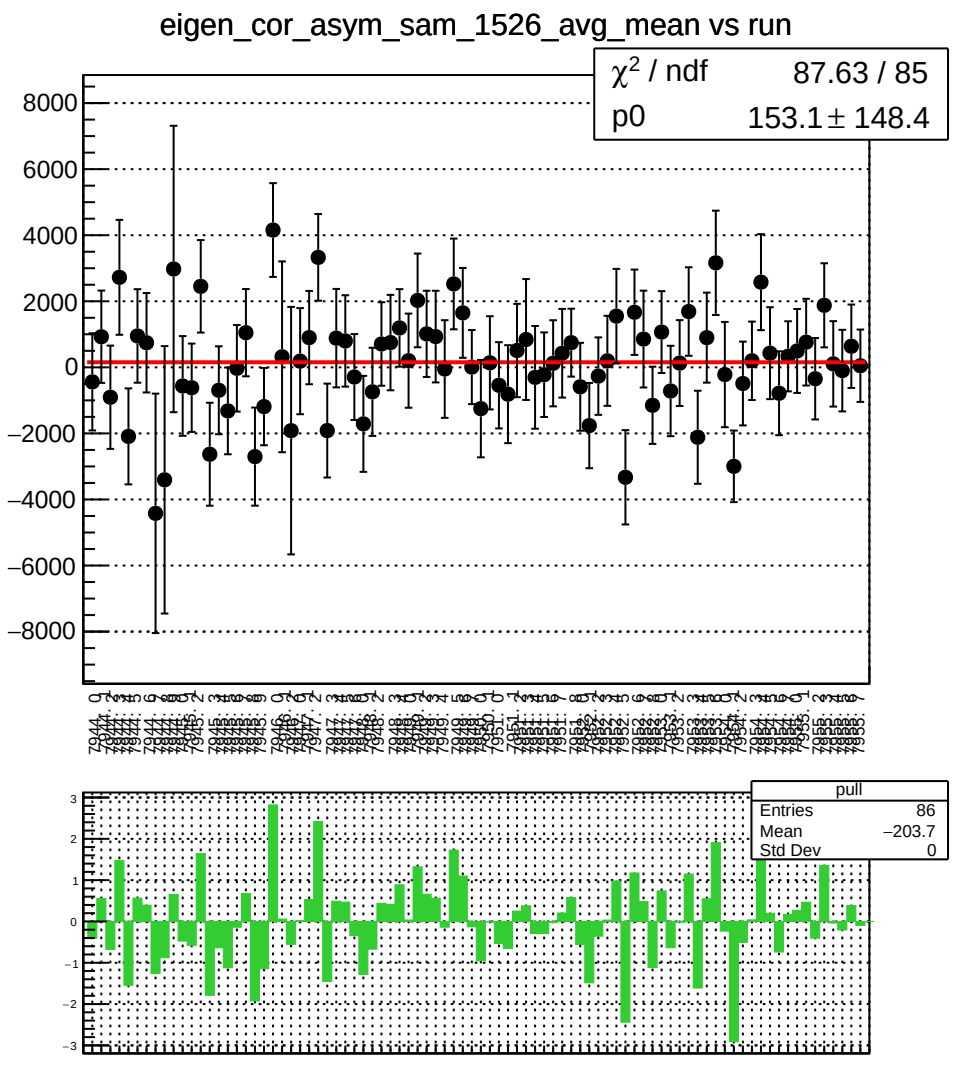

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2260 / 85
p0 905.3 ± 0.7119
1000
950
900
850
800

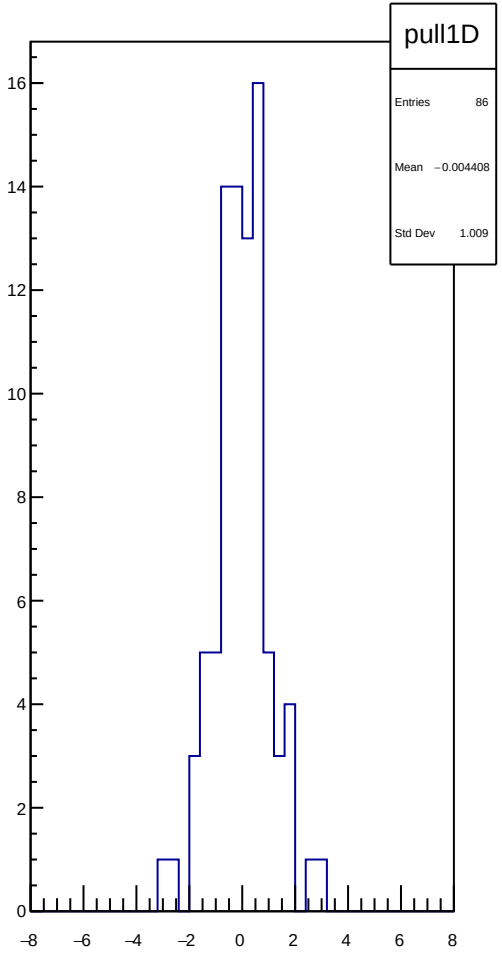

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 87.63 / 85
p0 153.1 ± 148.4
pull
Entries 86
Mean −203.7
Std Dev 0
pull1D
Entries 86
Mean −0.004408
Std Dev 1.009

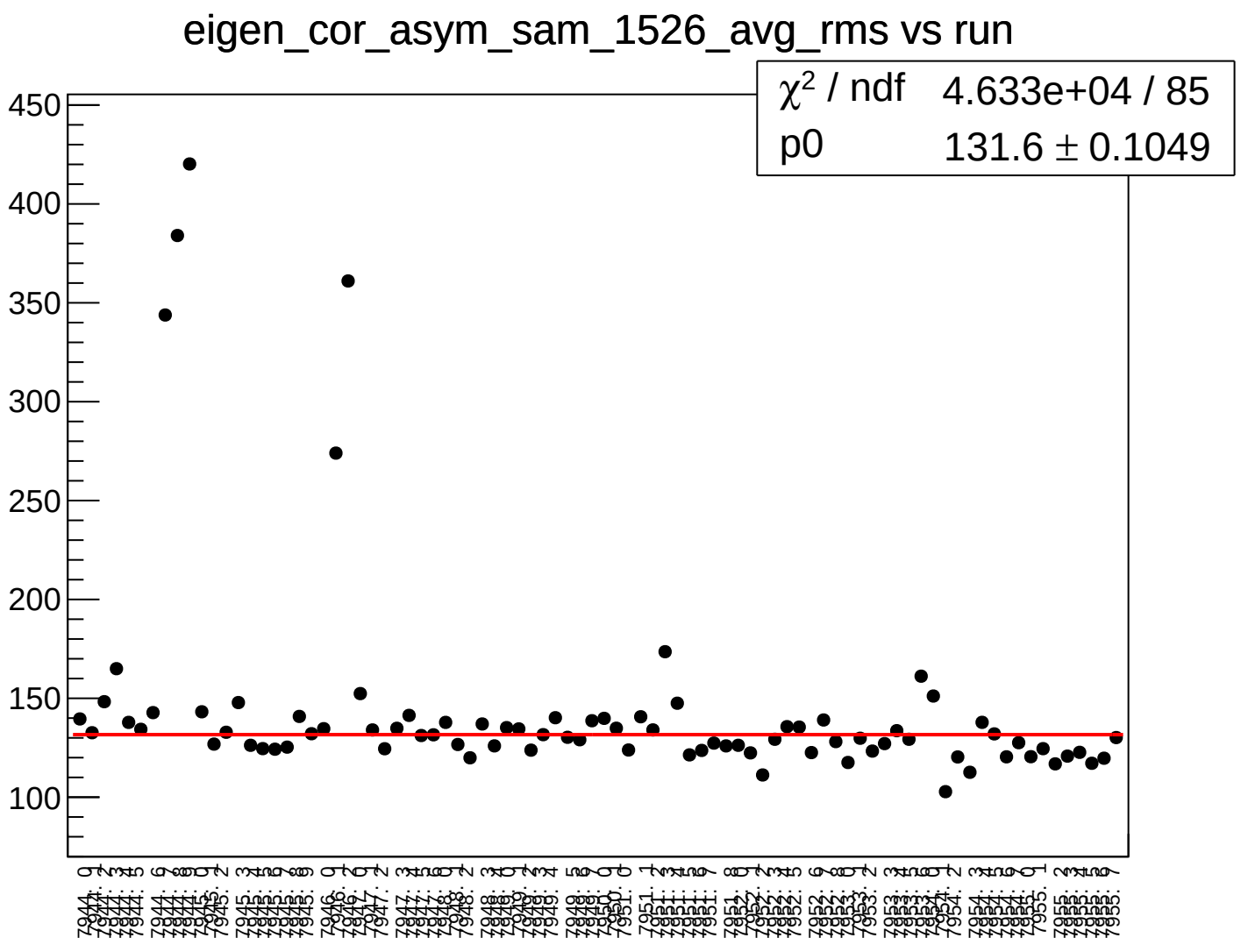

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4.633e+04 / 85
p0 131.6 ± 0.1049
450
400
350
300
250
200
150
100

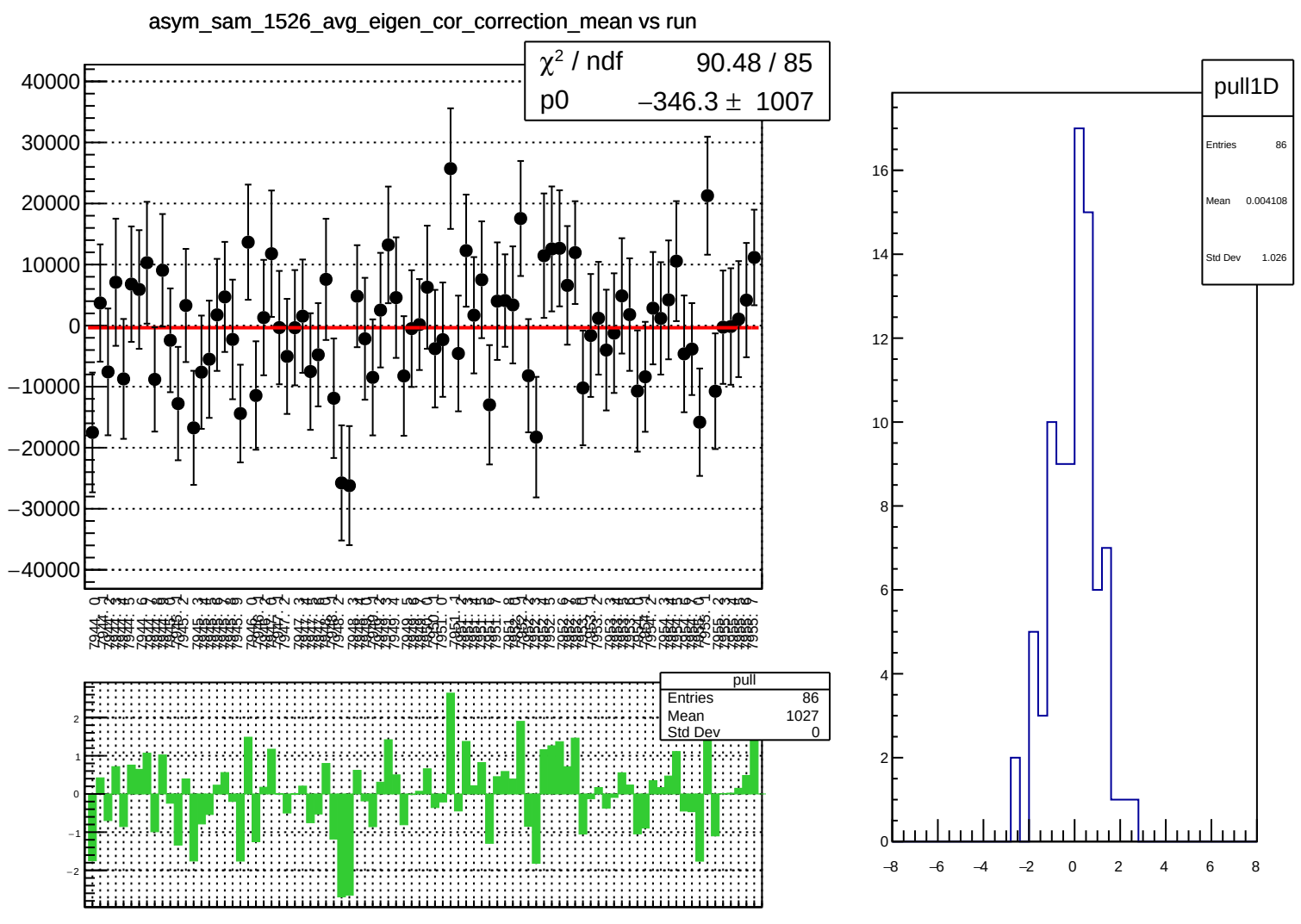

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 90.48 / 85
p0 −346.3 ± 1007
pull
Entries 86
Mean 1027
Std Dev 0
pull1D
Entries 86
Mean 0.004108
Std Dev 1.026

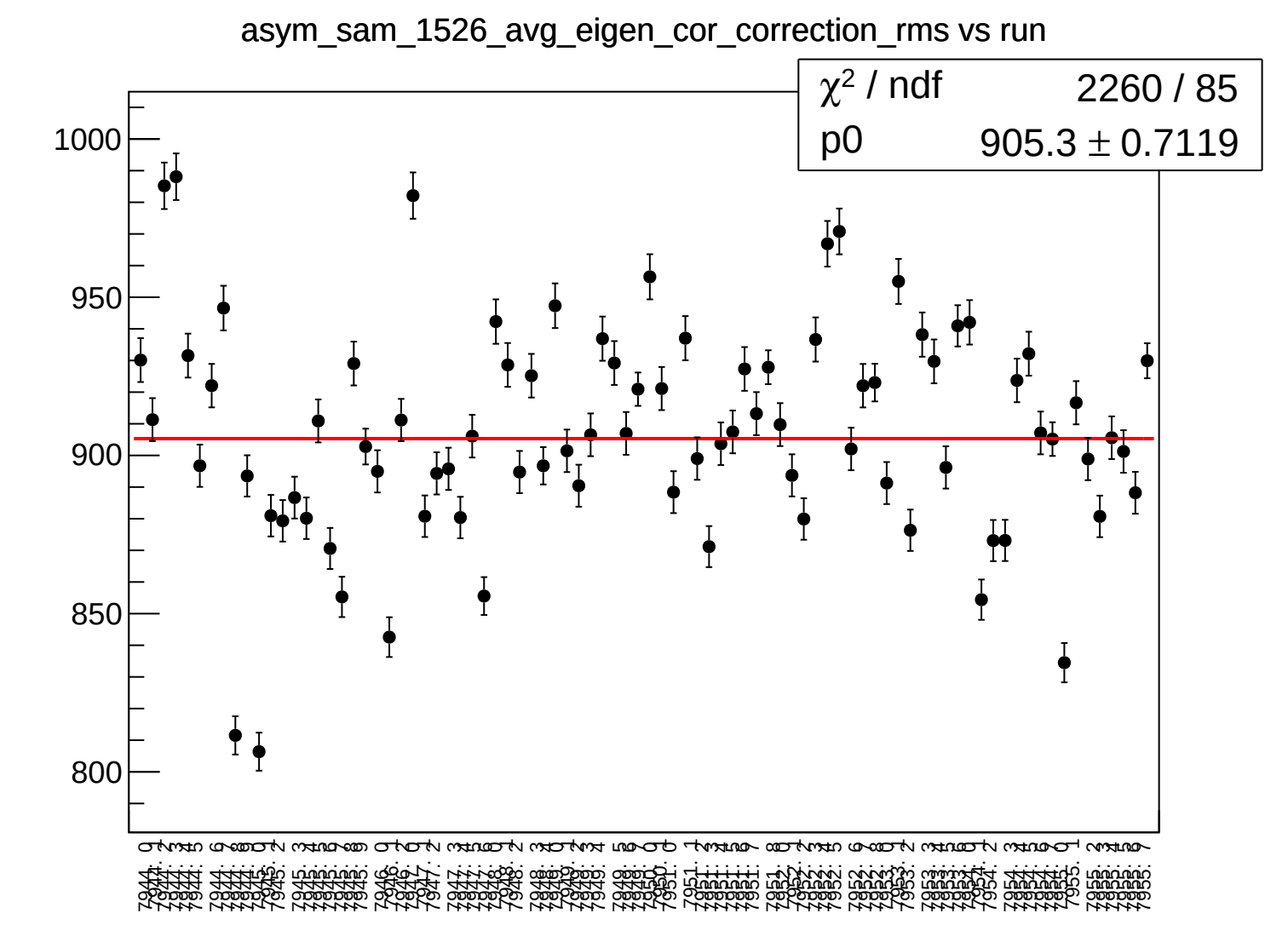

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 2260 / 85
p0 905.3 ± 0.7119
1000
950
900
850
800

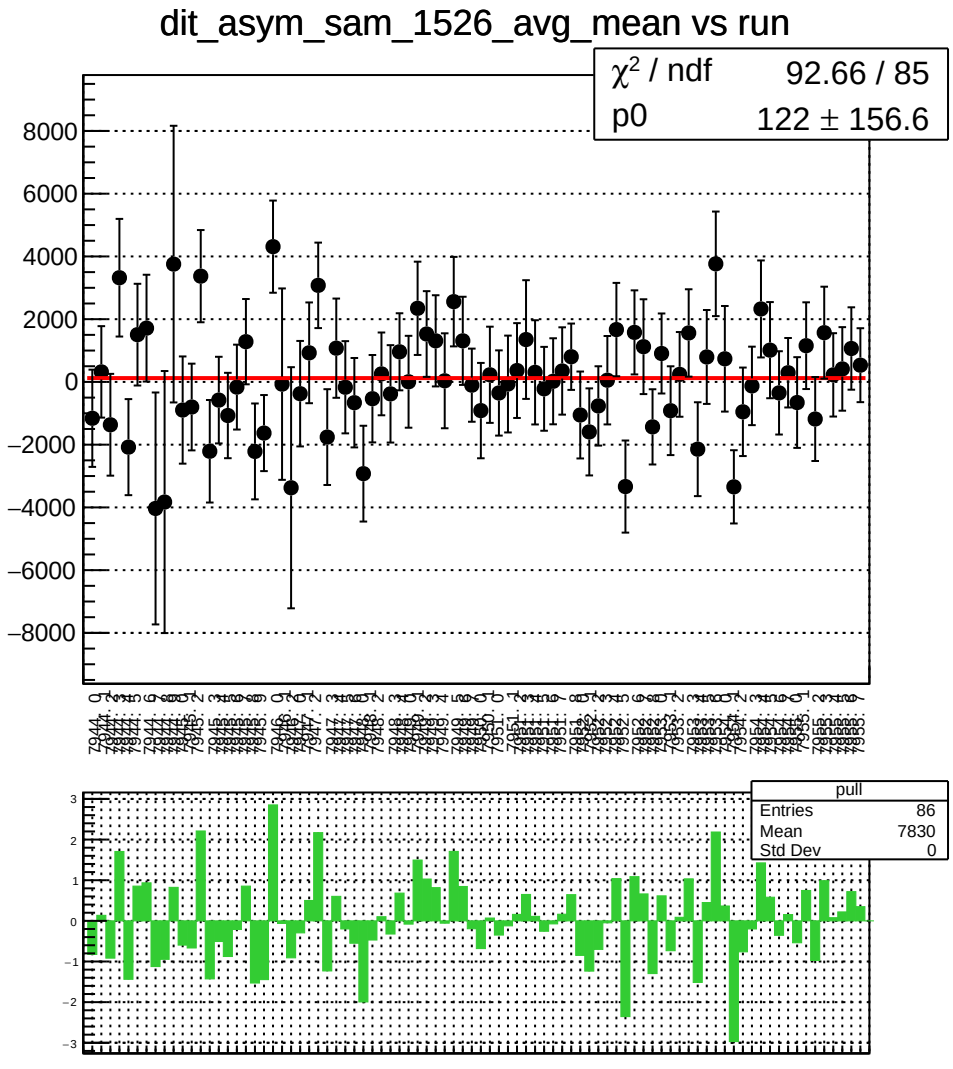

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 87.63 / 85
p0 153.1 ± 148.4
pull
Entries 86
Mean −203.7
Std Dev 0

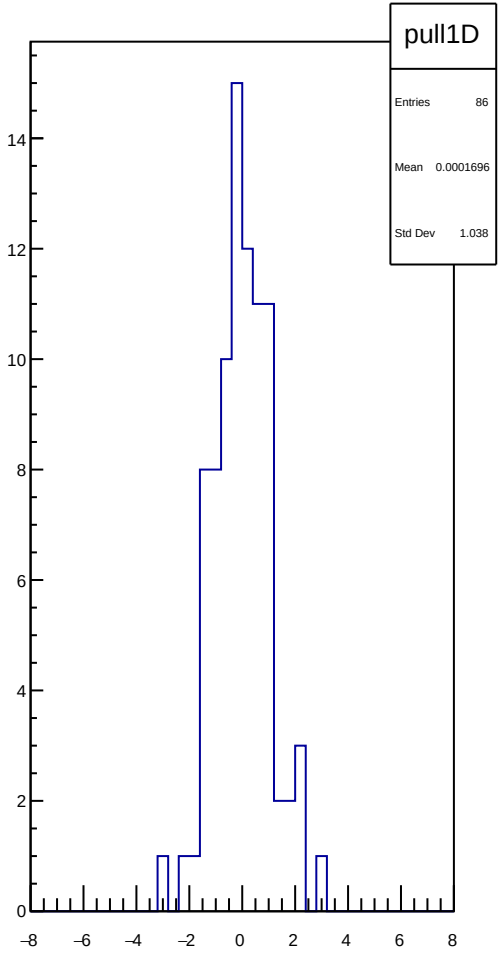

pull1D
Entries 86
Mean −0.004408
Std Dev 1.009

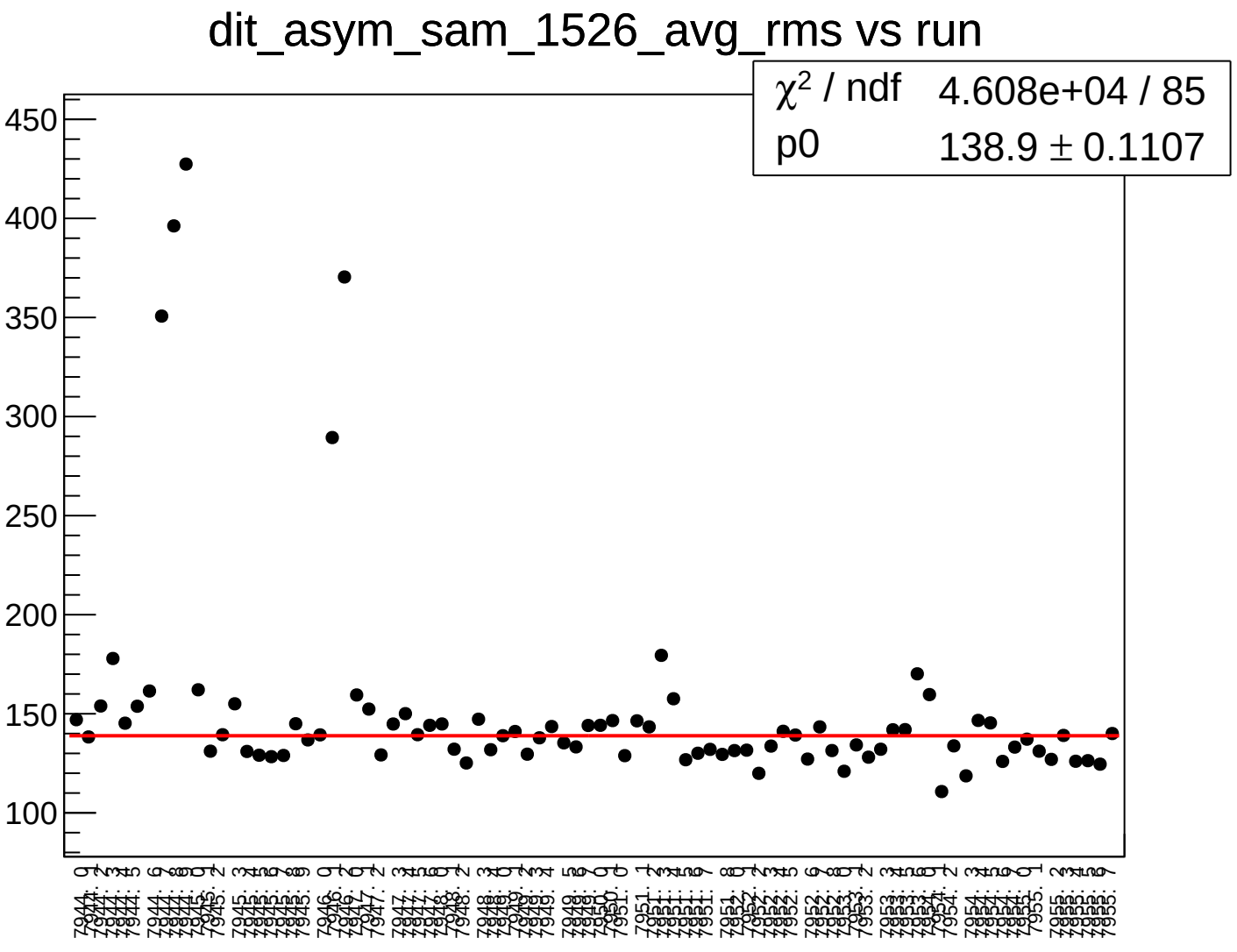

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4.633e+04 / 85
p0 131.6 ± 0.1049
450
400
350
300
250
200
150
100

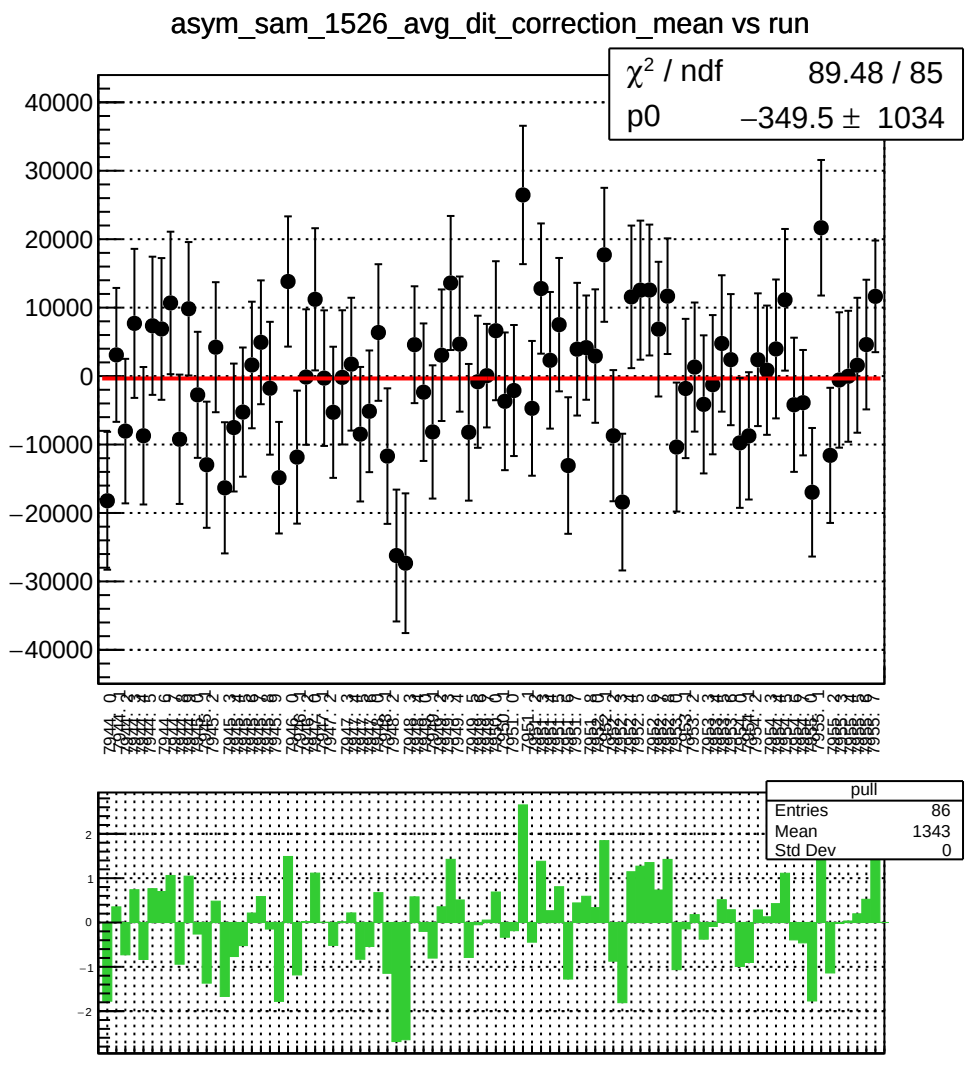

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.48 / 85
p0 −346.3 ± 1007
pull
Entries 86
Mean 1027
Std Dev 0
pull1D
Entries 86
Mean 0.004108
Std Dev 1.026

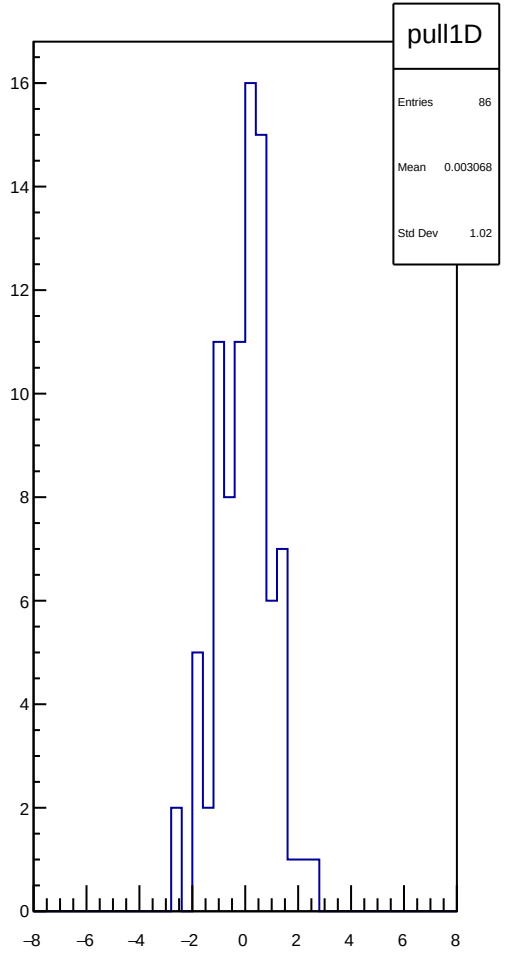

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 2260 / 85
p0 905.3 ± 0.7119
1000
950
900
850
800

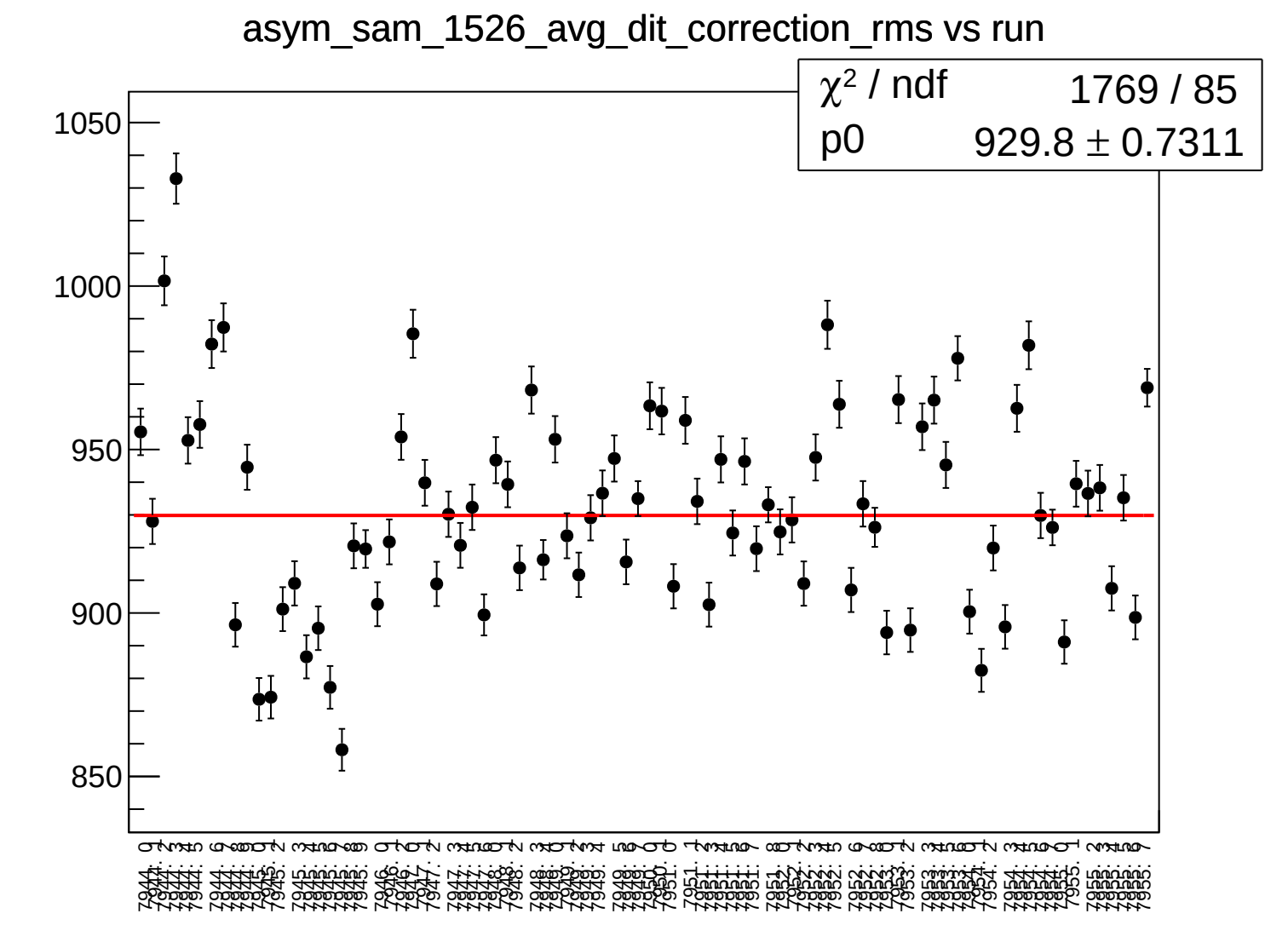

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 92.66 / 85
p0 122 ± 156.6
pull
Entries 86
Mean 7830
Std Dev 0

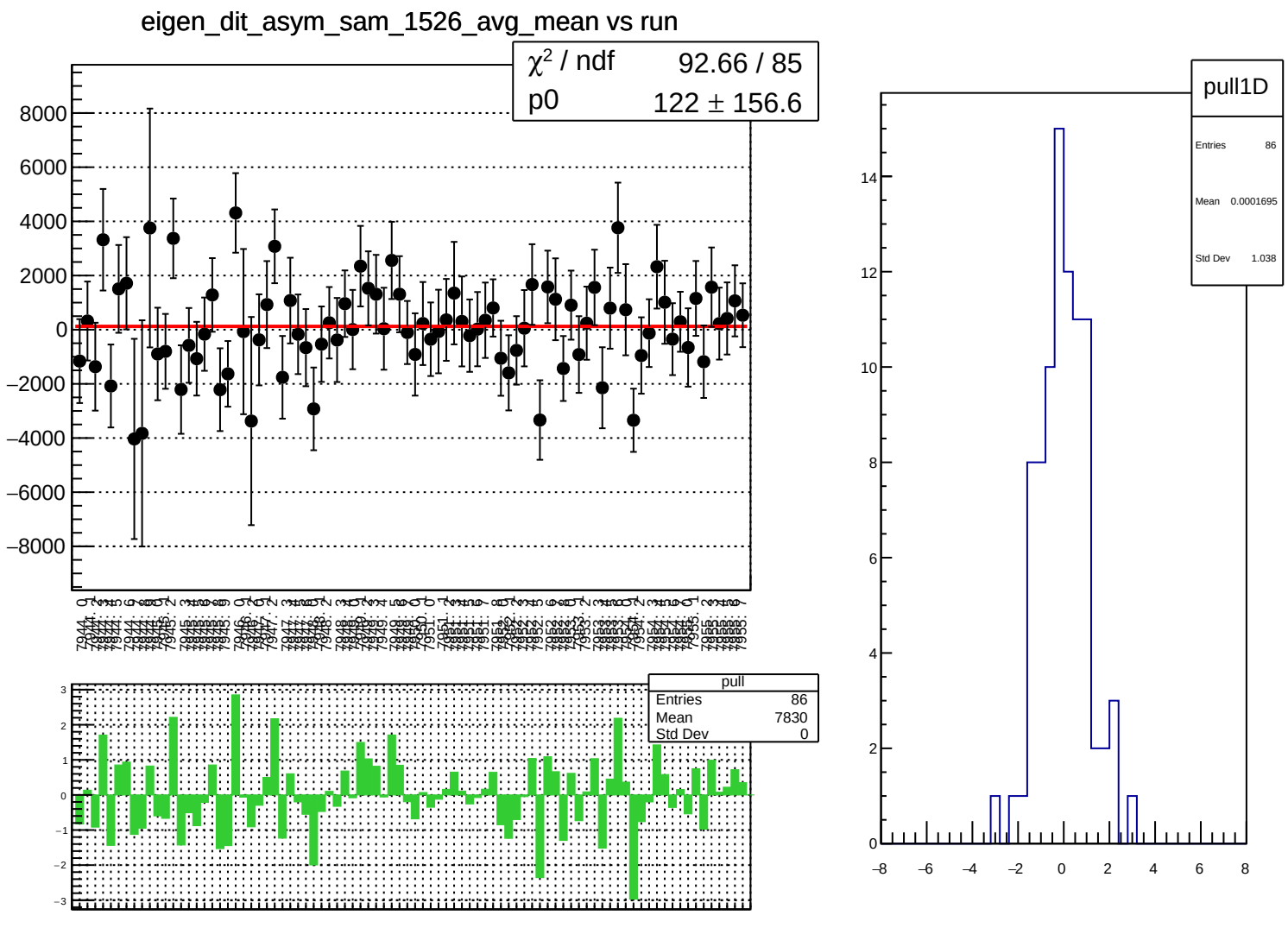

pull1D
Entries 86
Mean 0.0001696
Std Dev 1.038

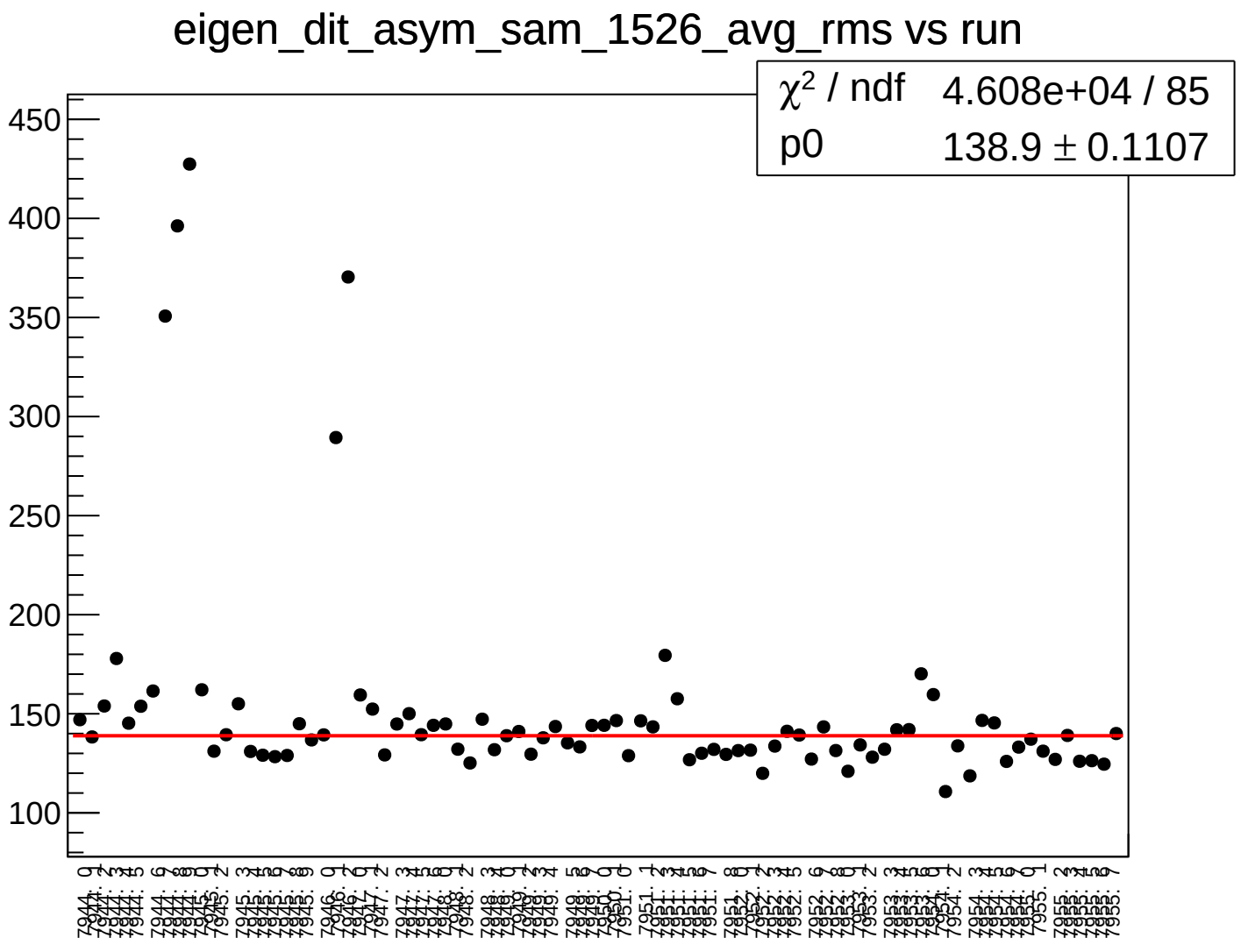

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4.608e+04 / 85
p0 138.9 ± 0.1107
450
400
350
300
250
200
150
100

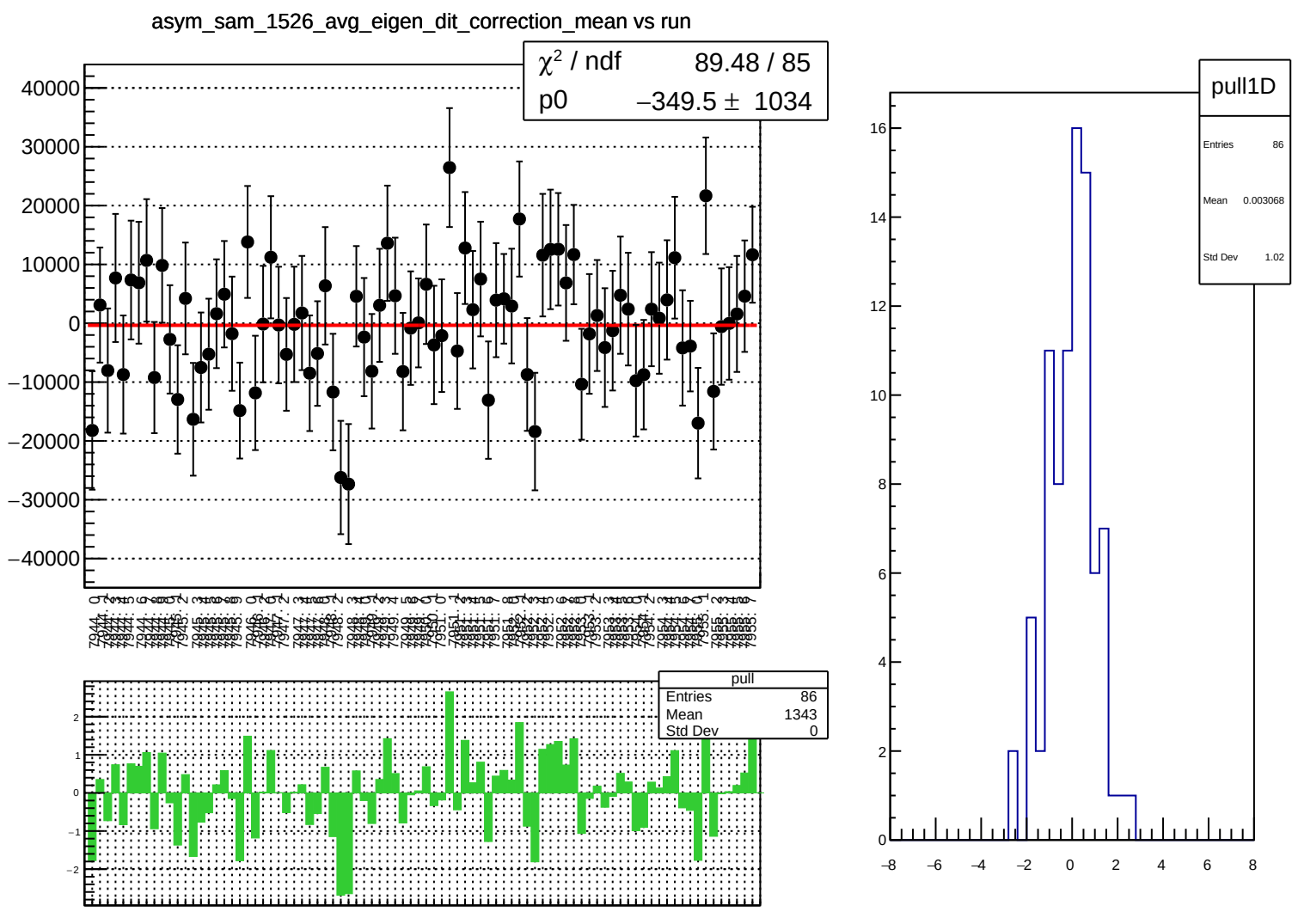

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 89.48 / 85
p0 −349.5 ± 1034
pull
Entries 86
Mean 1343
Std Dev 0

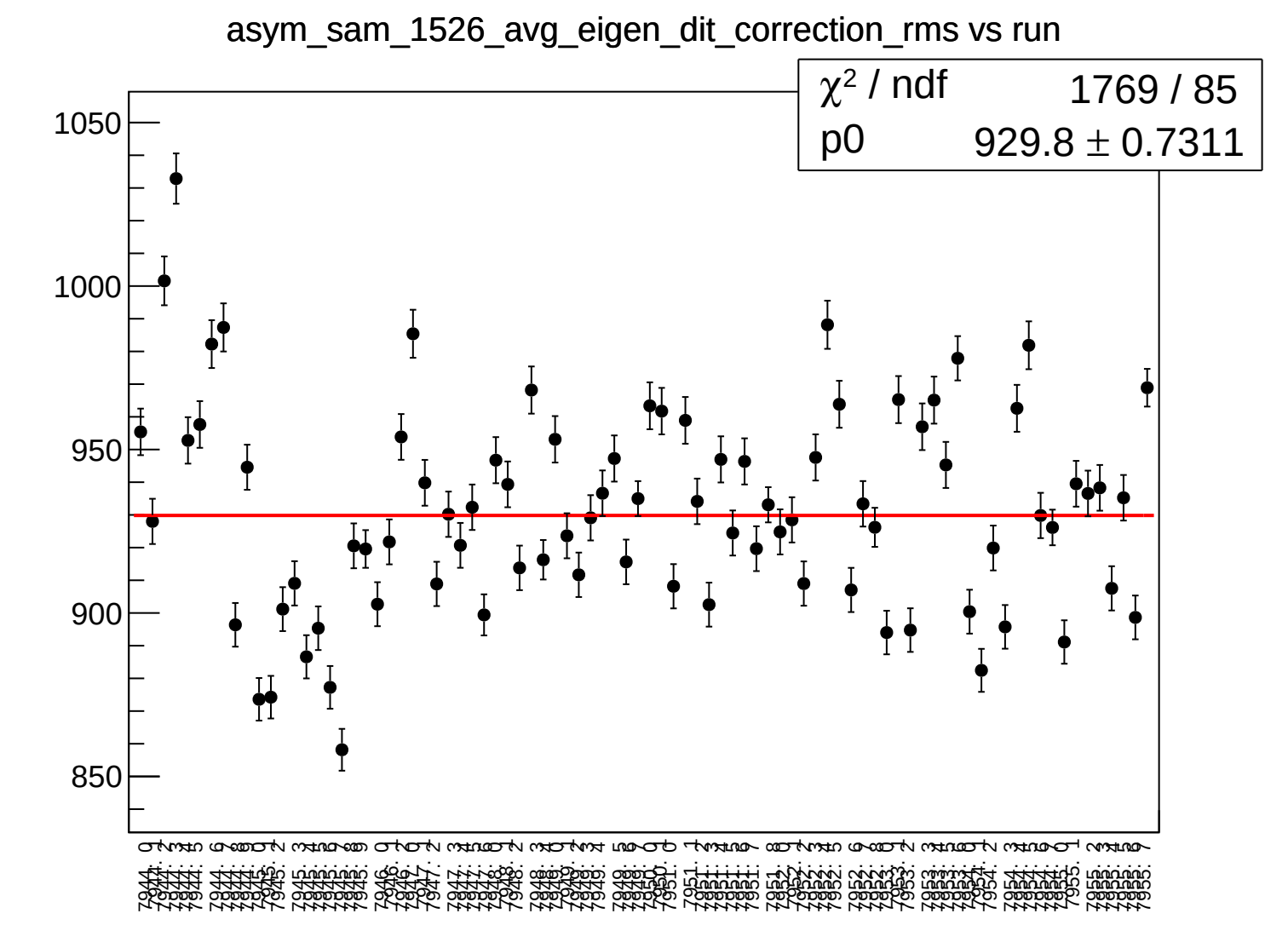

pull1D
Entries 86
Mean 0.003068
Std Dev 1.02

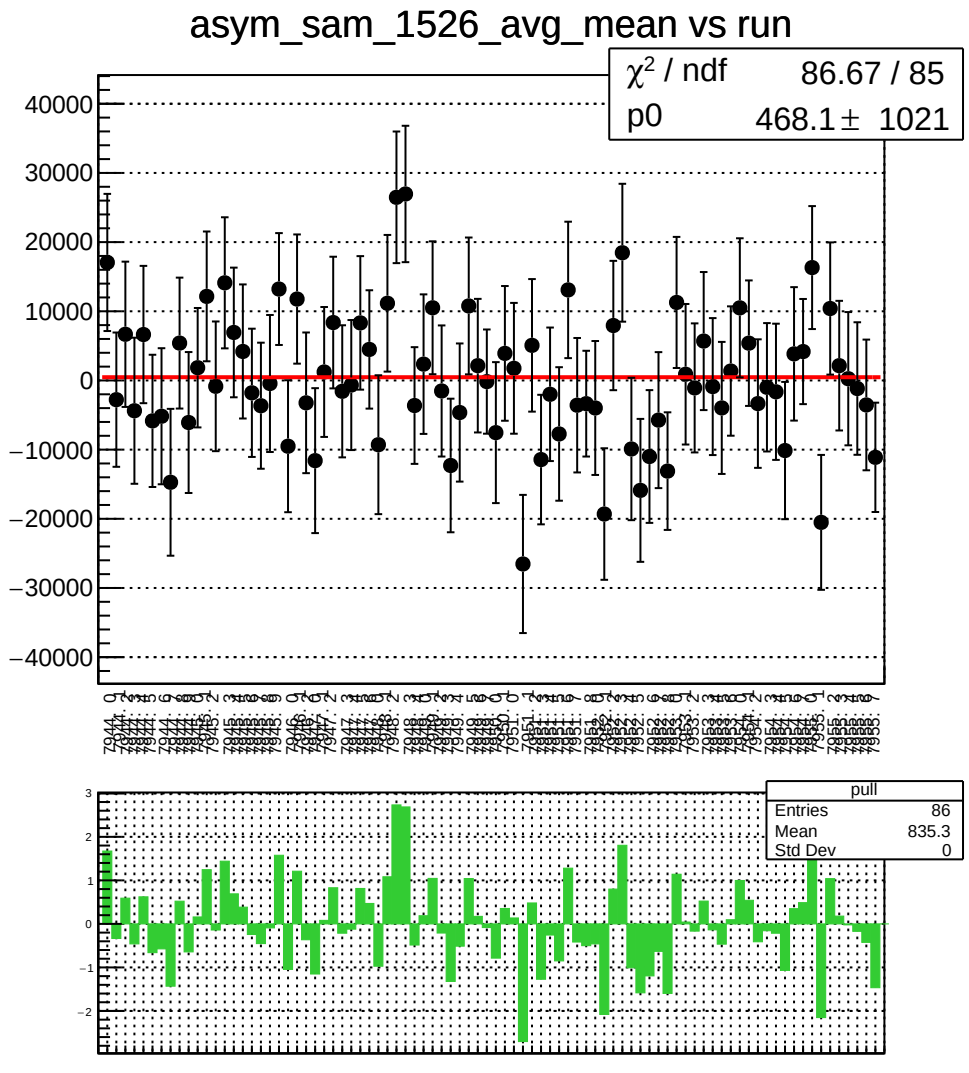

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1769 / 85
p0 929.8 ± 0.7311
1050
1000
950
900
850

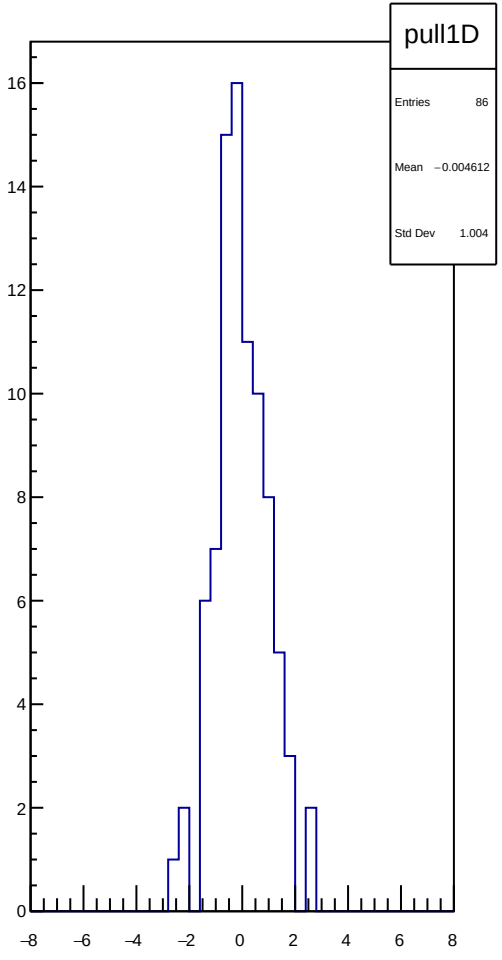

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 92.66 / 85
p0 122 ± 156.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean 7830
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.0001695
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

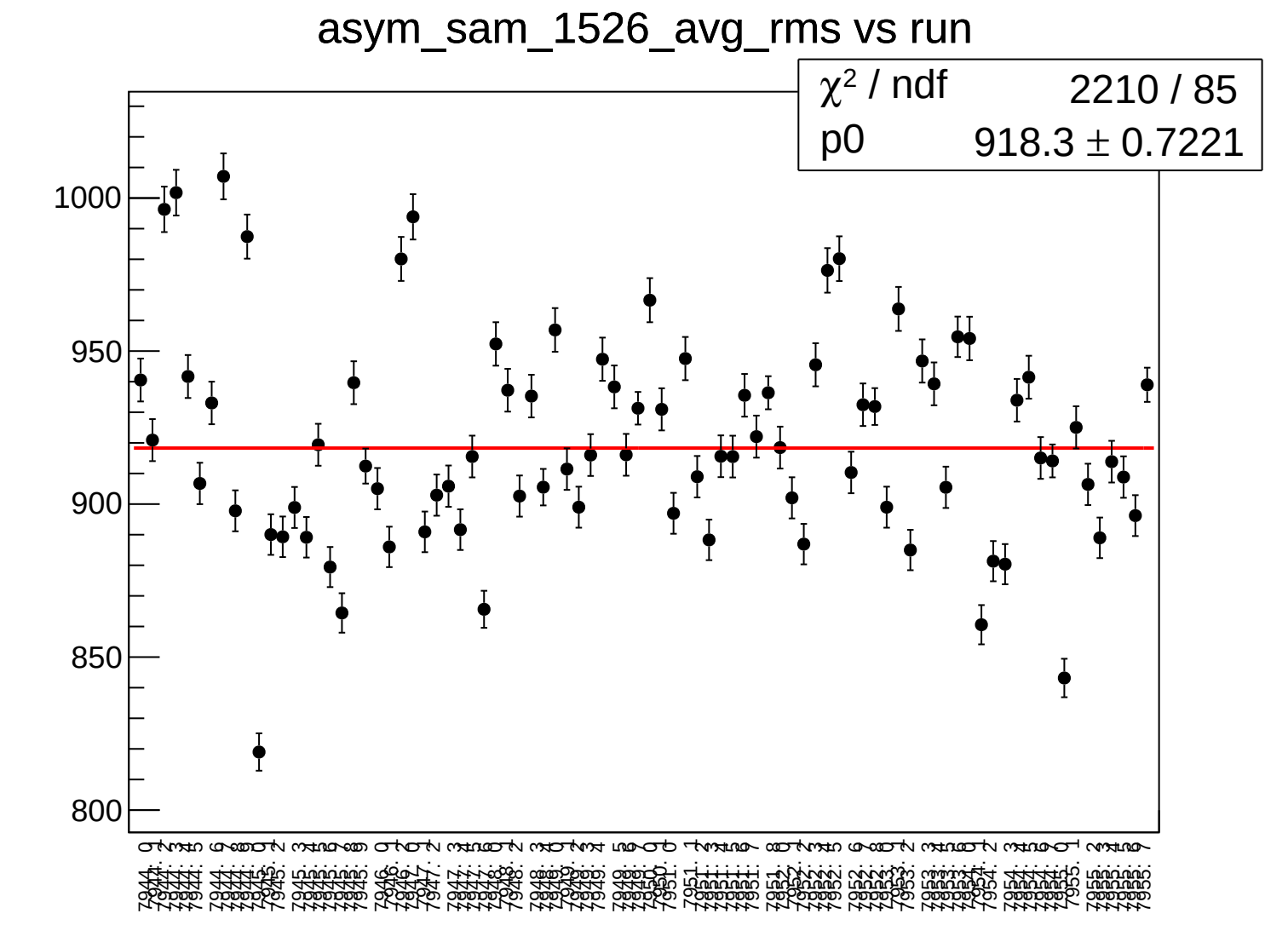

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4.608e+04 / 85
p0 138.9 ± 0.1107
450
400
350
300
250
200
150
100

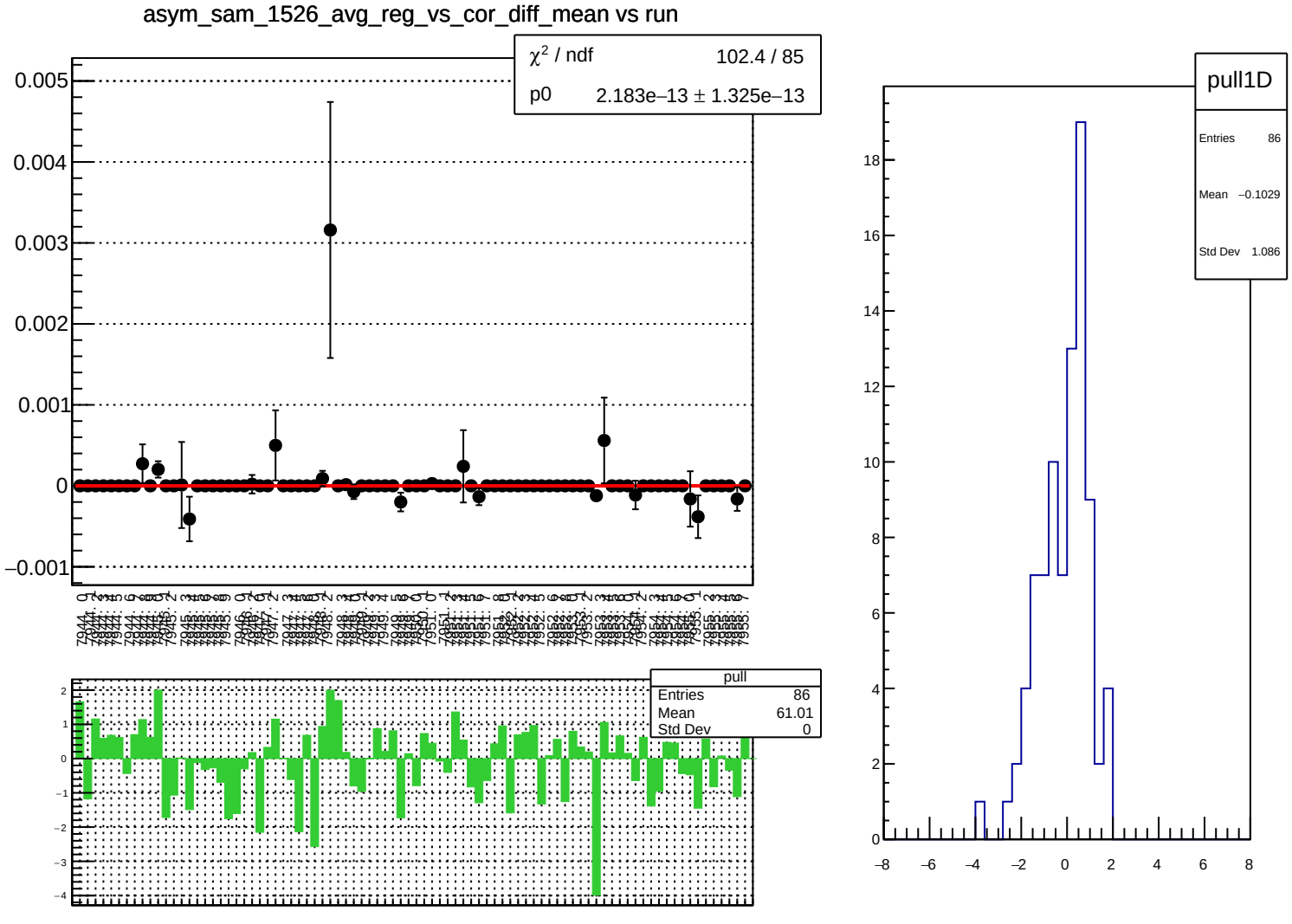

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.48 / 85
p0 −349.5 ± 1034
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 1343
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.003068
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

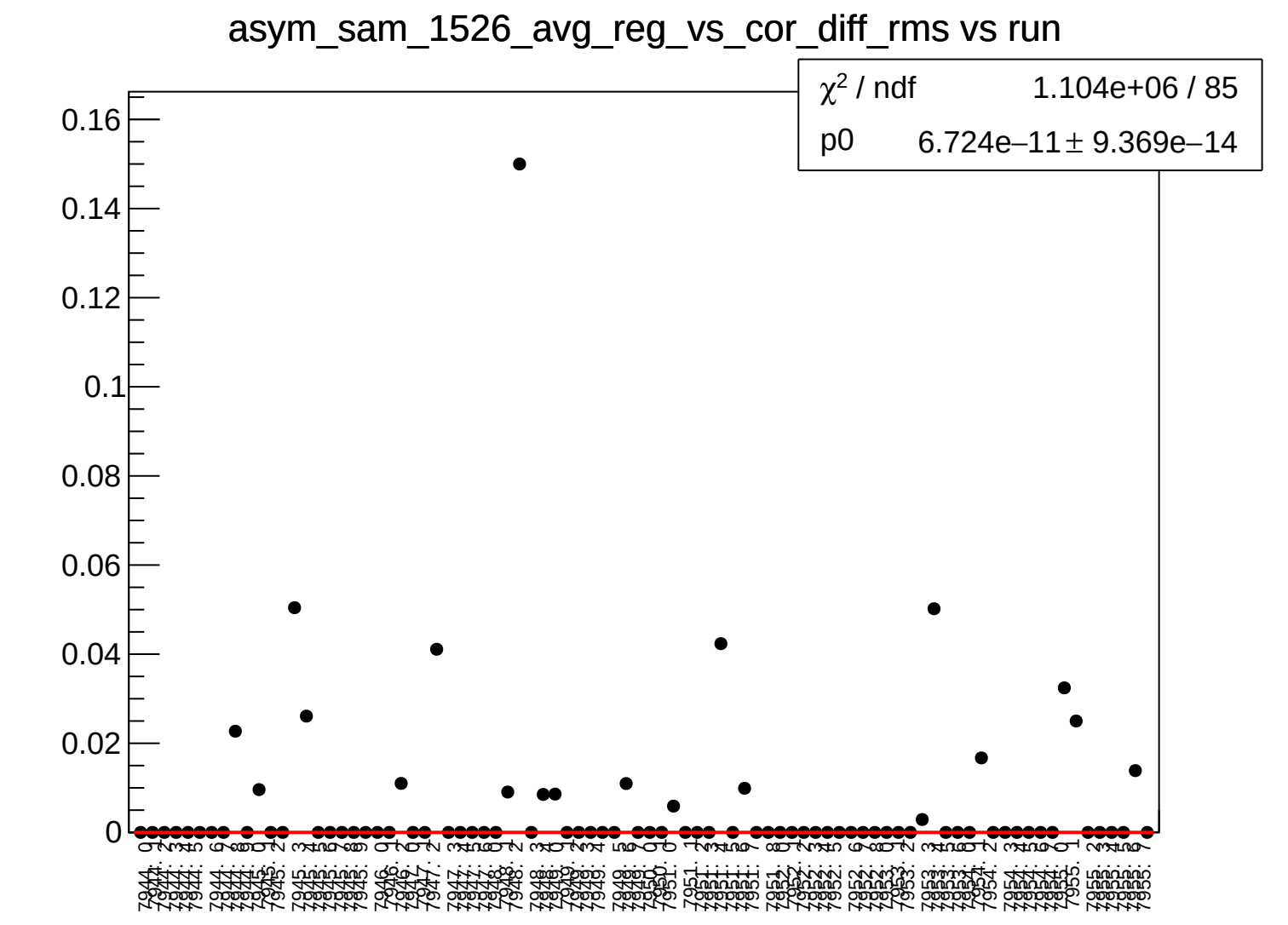

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1769 / 85
p0 929.8 ± 0.7311
1050
1000
950
900
850

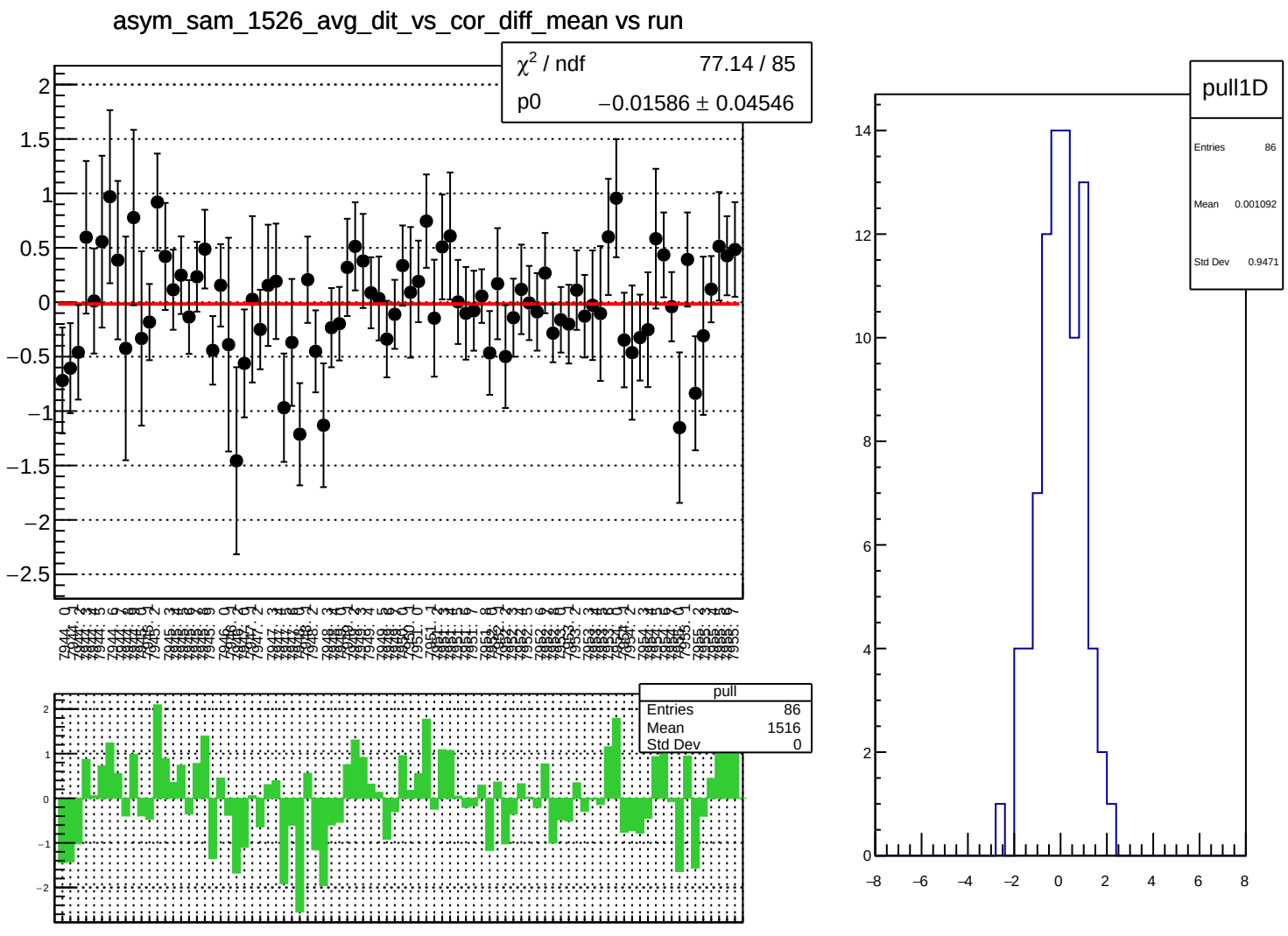

asym_sam_1526_avg_mean vs run
χ² / ndf 86.67 / 85
p0 468.1 ± 1021
pull
Entries 86
Mean 835.3
Std Dev 0

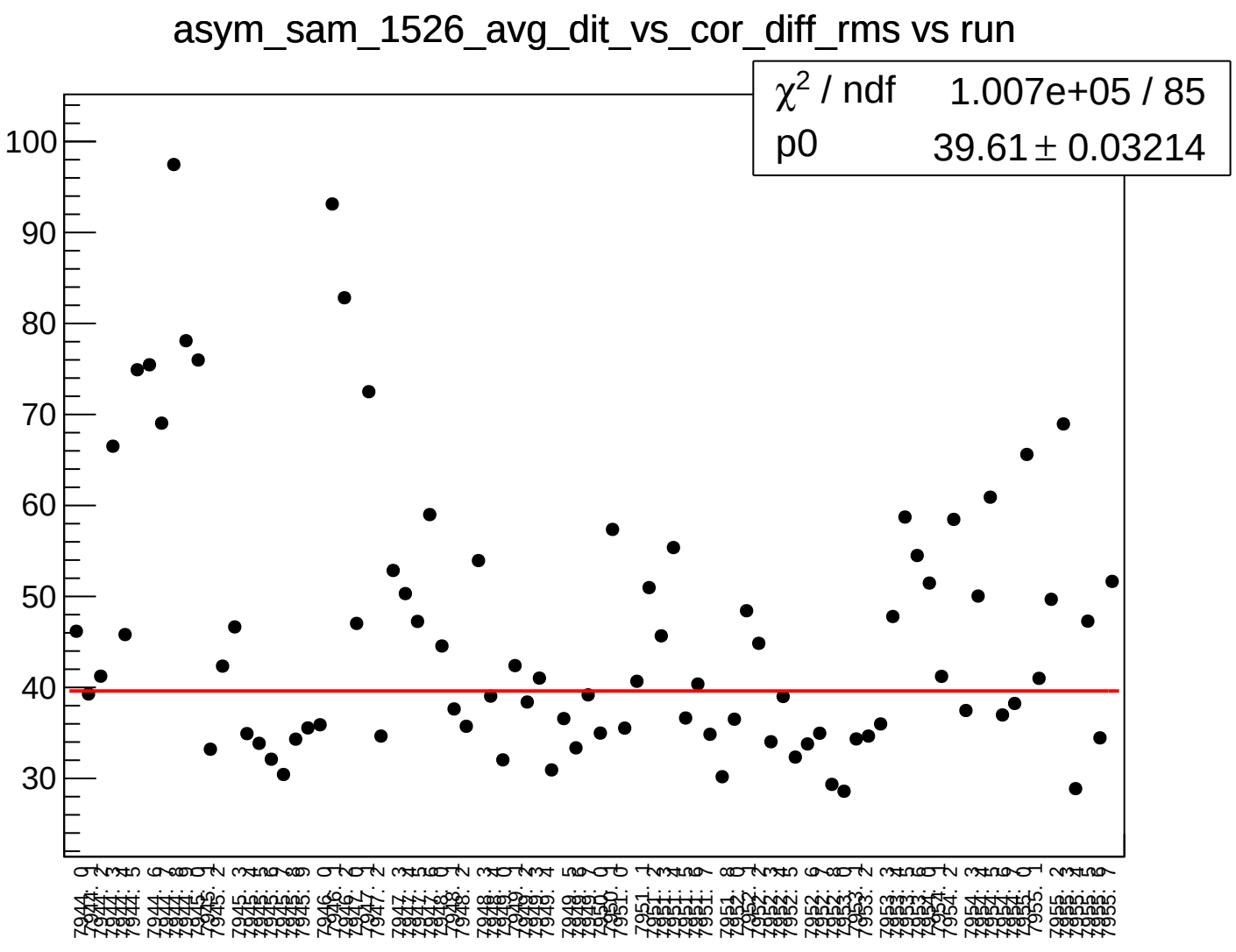

pull1D
Entries 86
Mean −0.004612
Std Dev 1.004

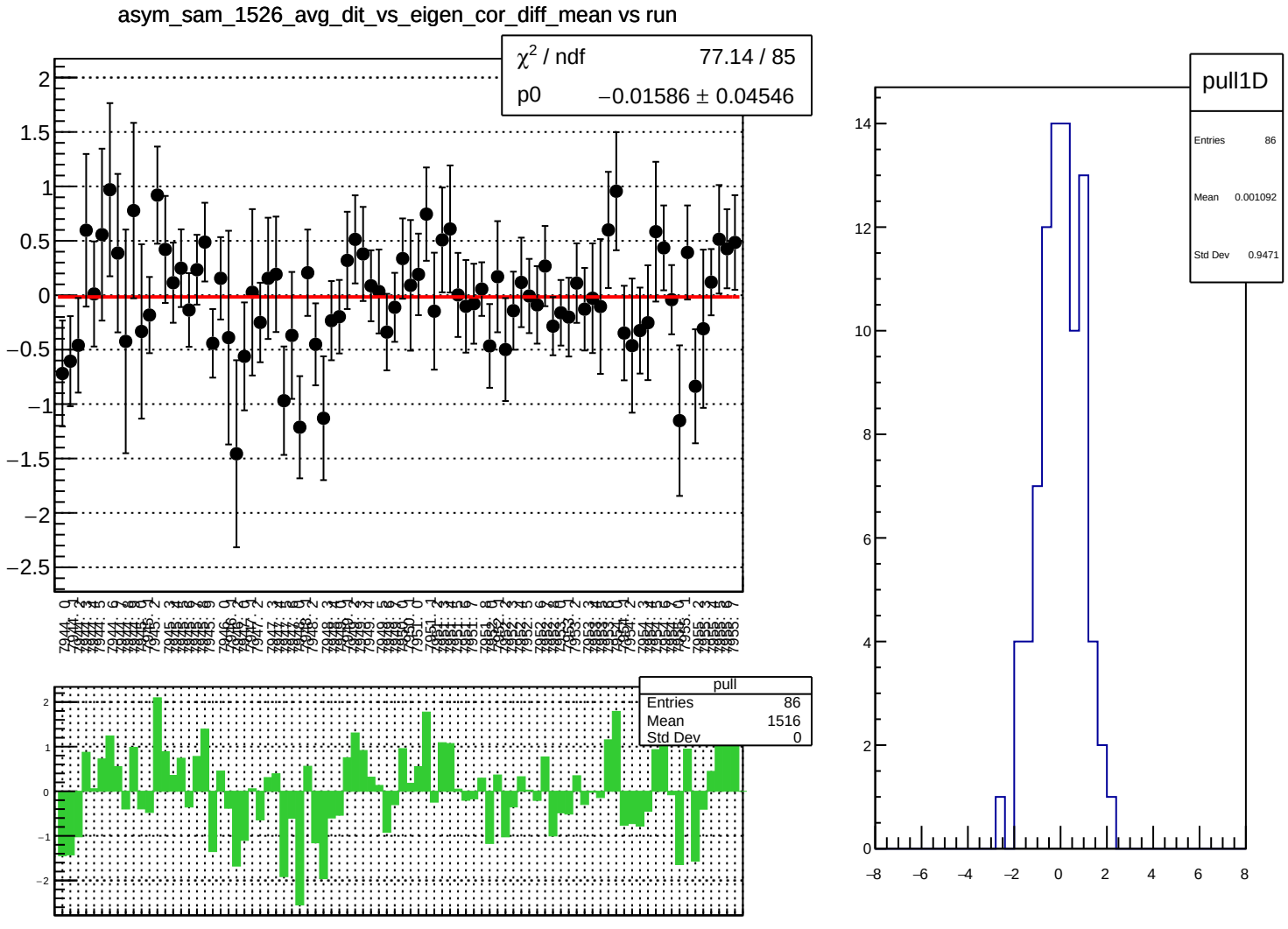

asym_sam_1526_avg_rms vs run
χ² / ndf 2210 / 85
p0 918.3 ± 0.7221
1000
950
900
850
800

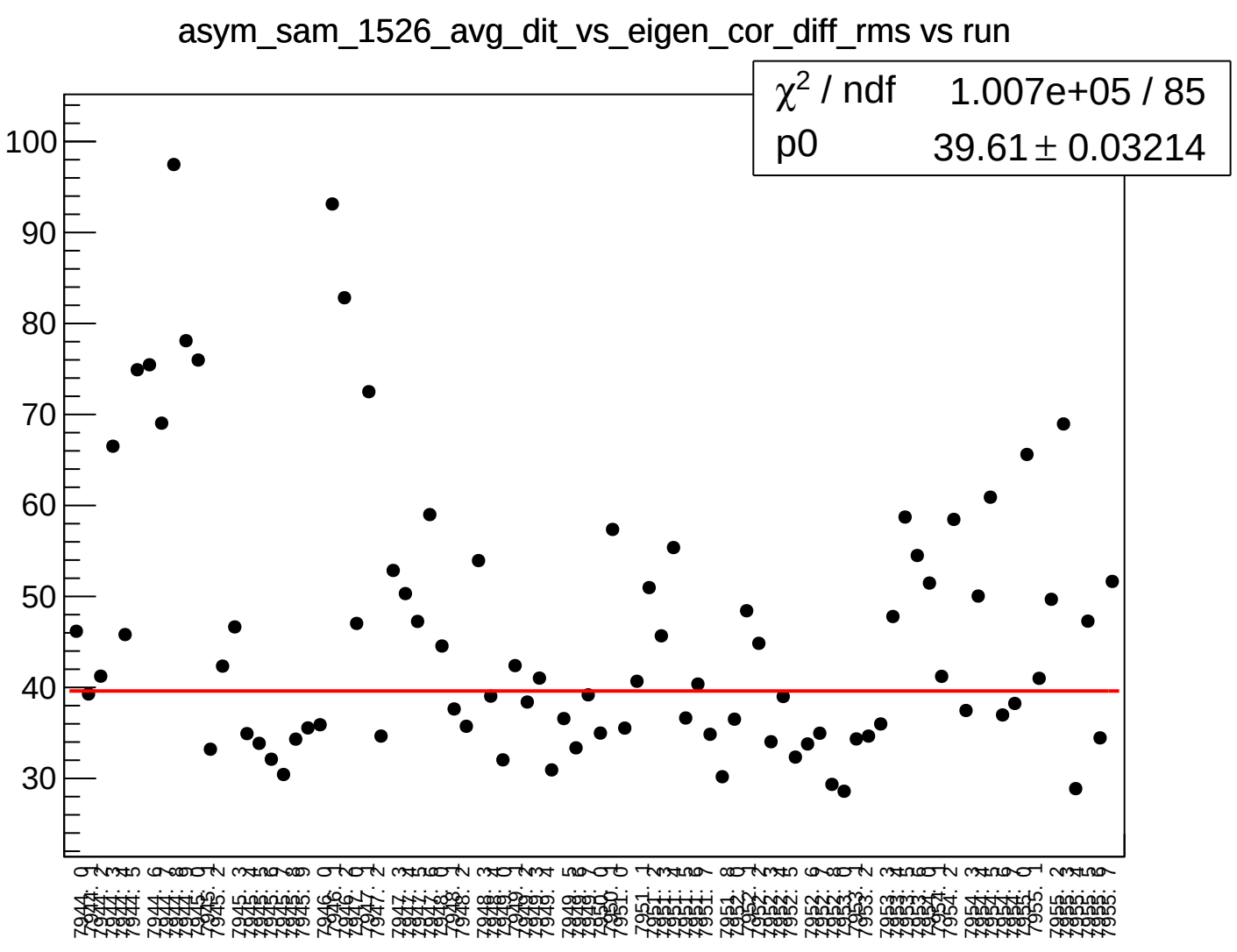

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 85
p0 2.183e−13 ± 1.325e−13
0.005
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 86
Mean 61.01
Std Dev 0
pull1D
Entries 86
Mean −0.1029
Std Dev 1.086

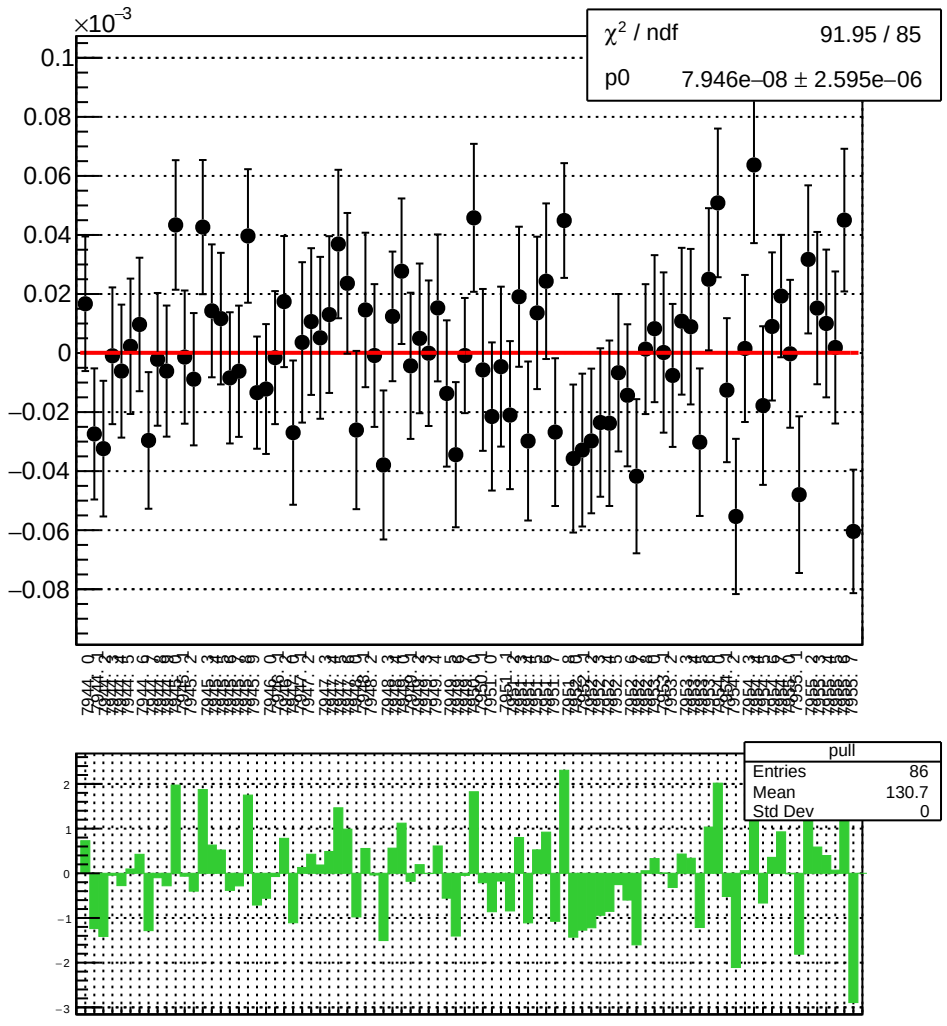

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.104e+06 / 85
p0 6.724e−11 ± 9.369e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

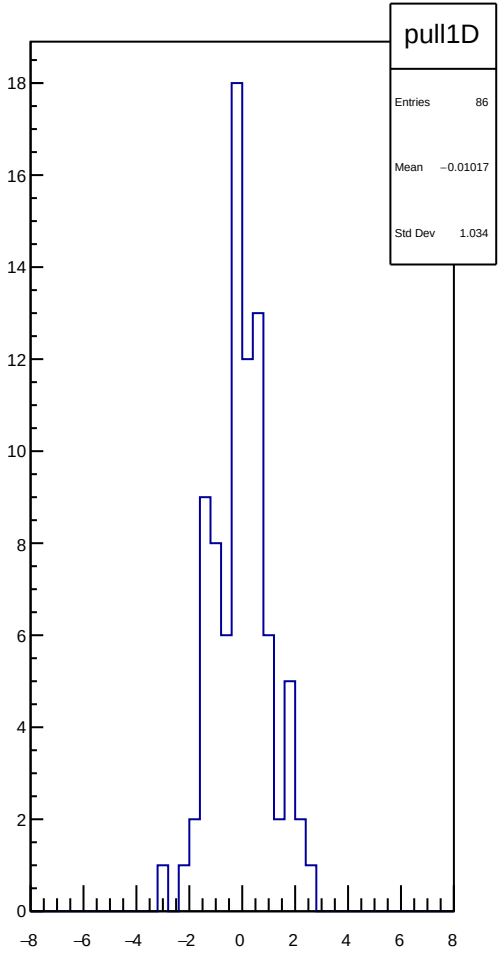

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.14 / 85
p0 −0.01586 ± 0.04546
pull
Entries 86
Mean 1516
Std Dev 0
pull1D
Entries 86
Mean 0.001092
Std Dev 0.9471

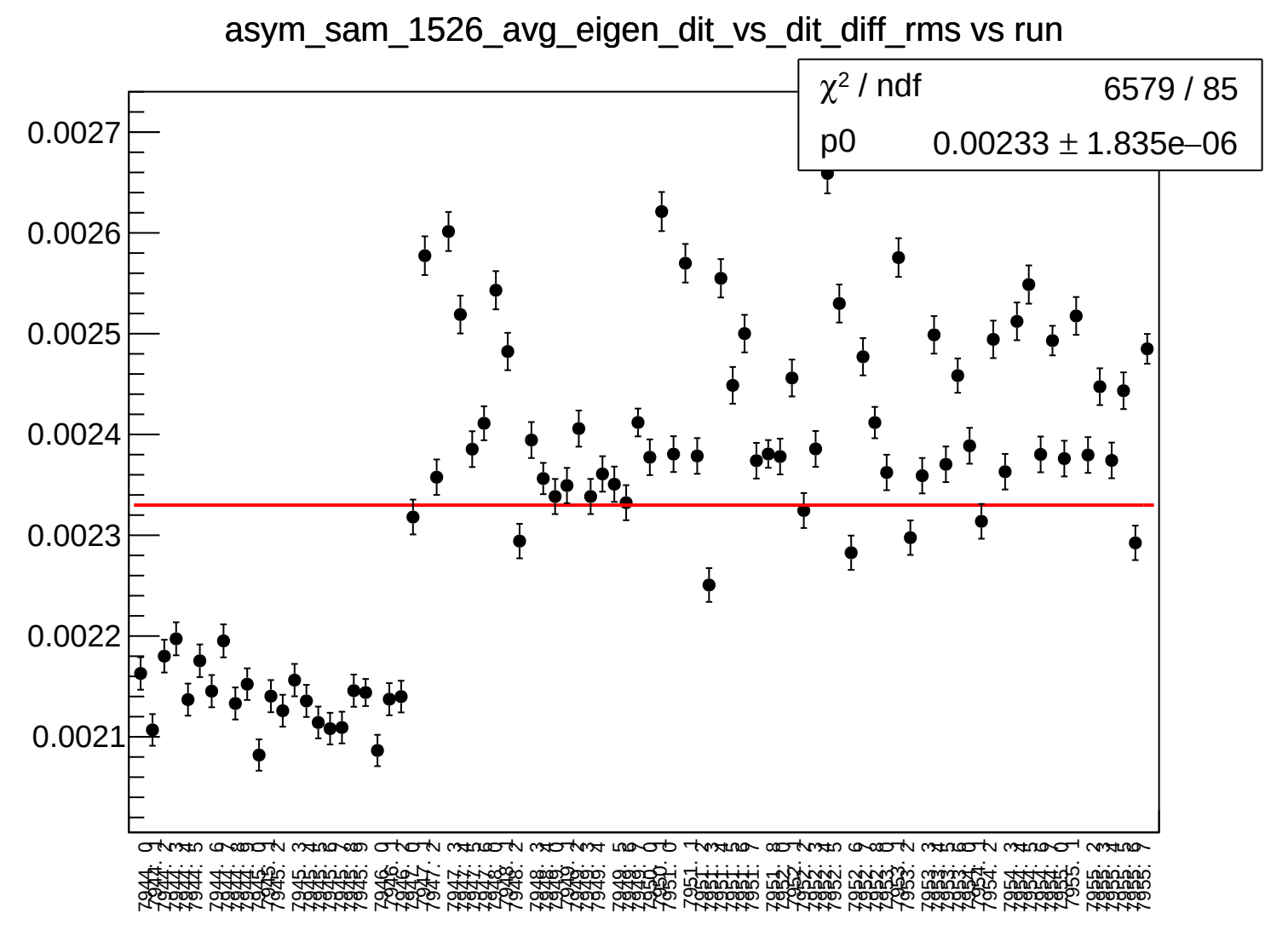

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.007e+05 / 85
p0 39.61 ± 0.03214
100
90
80
70
60
50
40
30

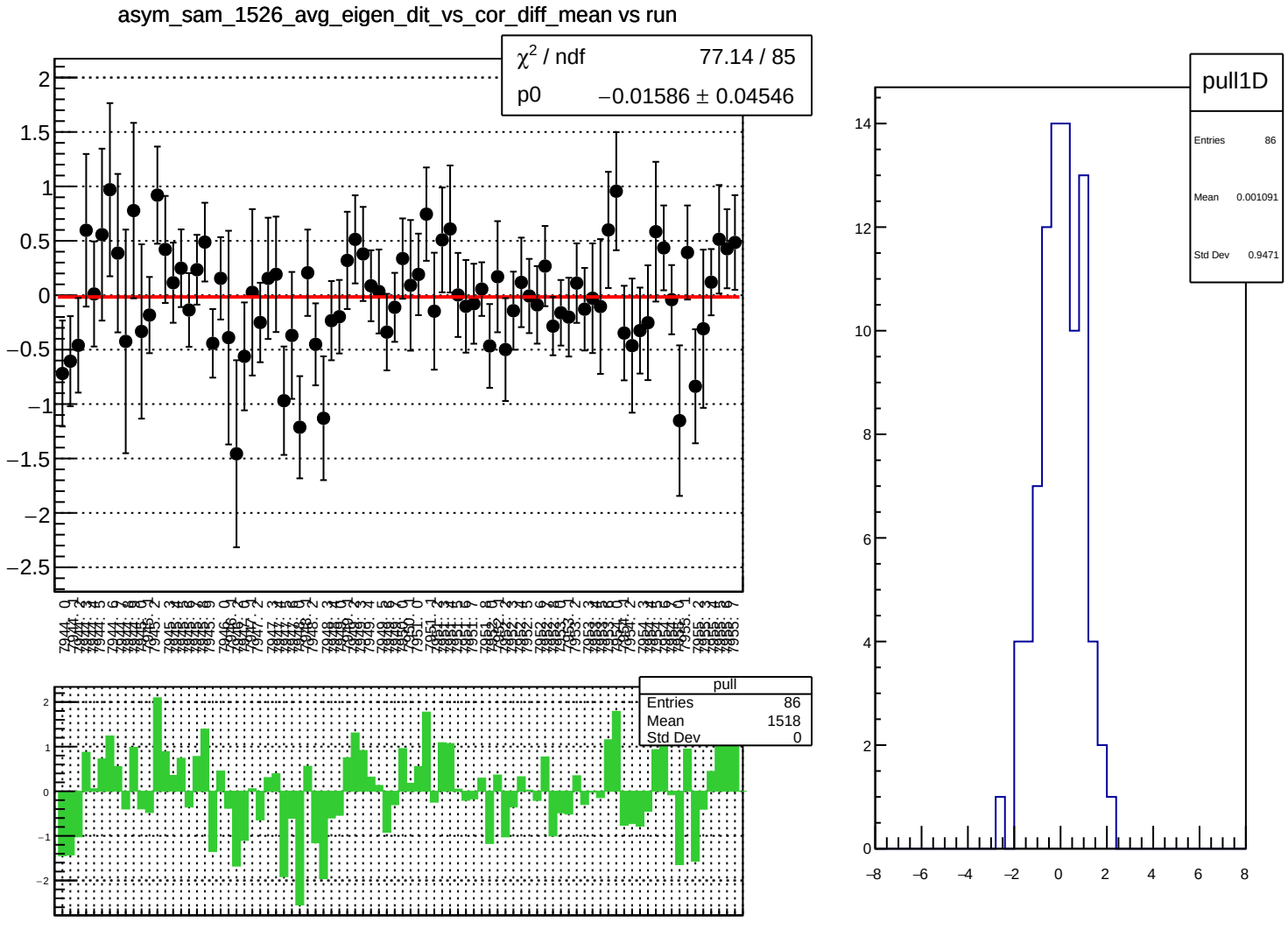

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.14 / 85
p0 −0.01586 ± 0.04546
pull
Entries 86
Mean 1516
Std Dev 0
pull1D
Entries 86
Mean 0.001092
Std Dev 0.9471

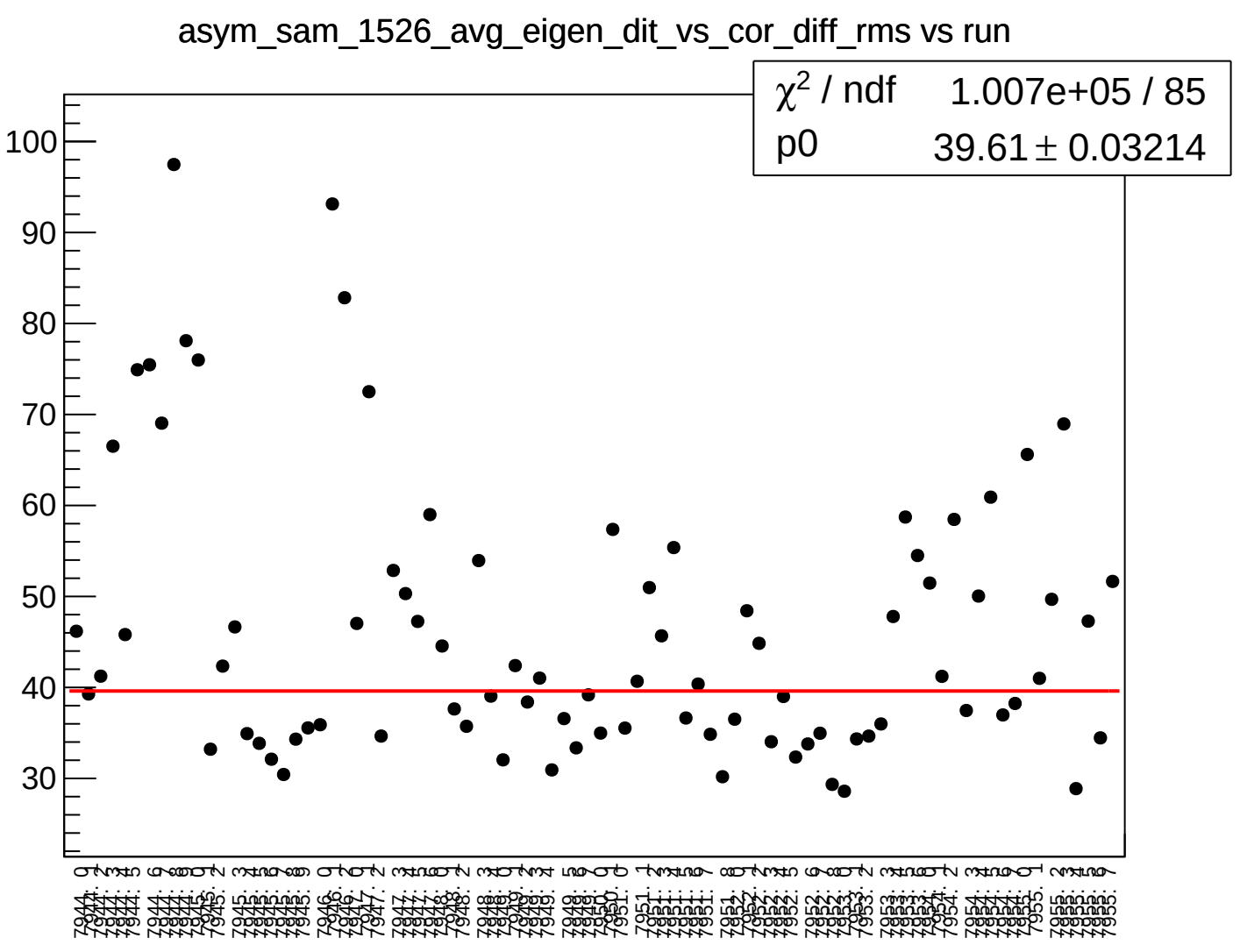

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 85
p0 39.61 ± 0.03214
100
90
80
70
60
50
40
30

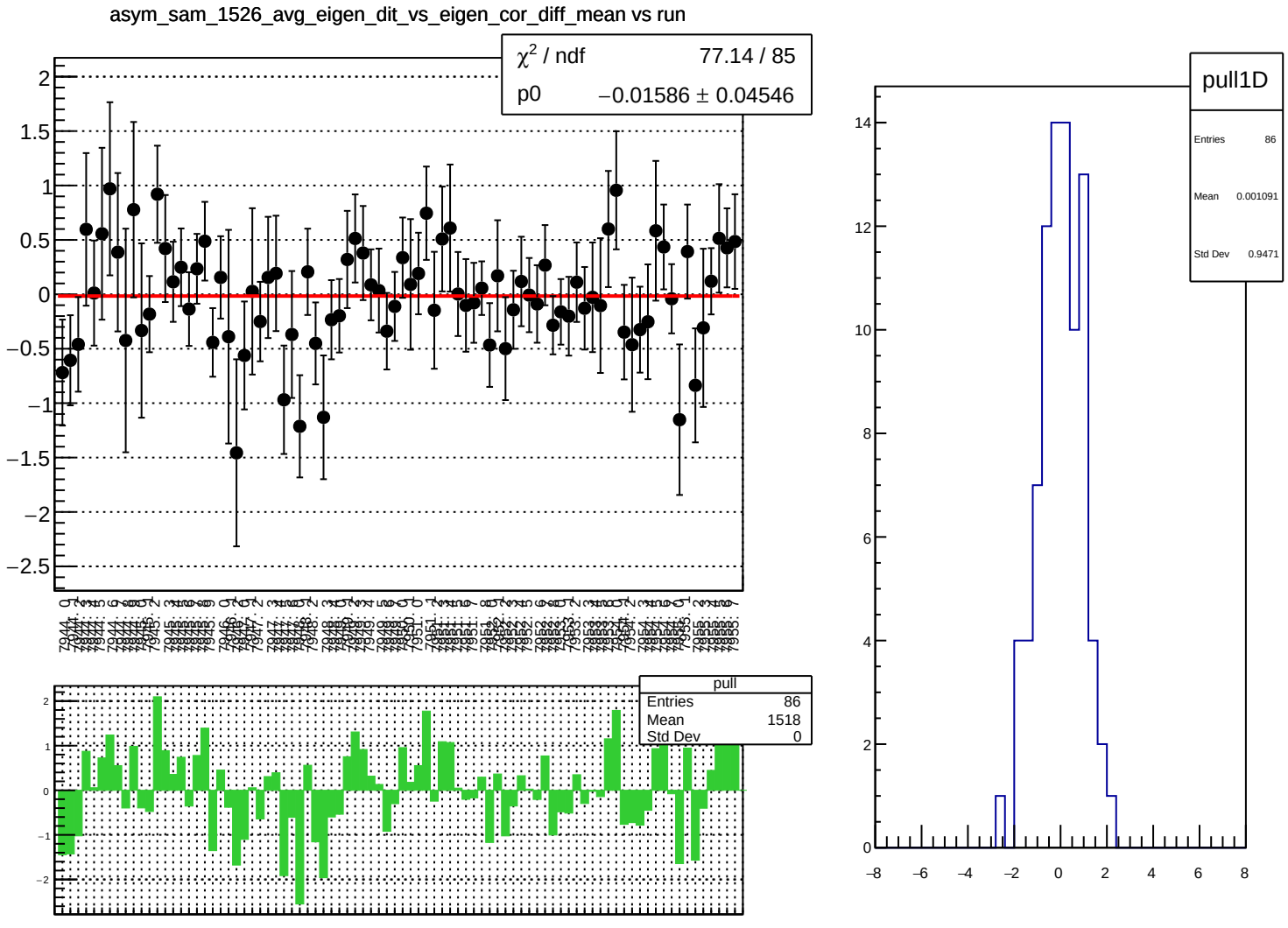

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.95 / 85
p0 7.946e−08 ± 2.595e−06
pull
Entries 86
Mean 130.7
Std Dev 0

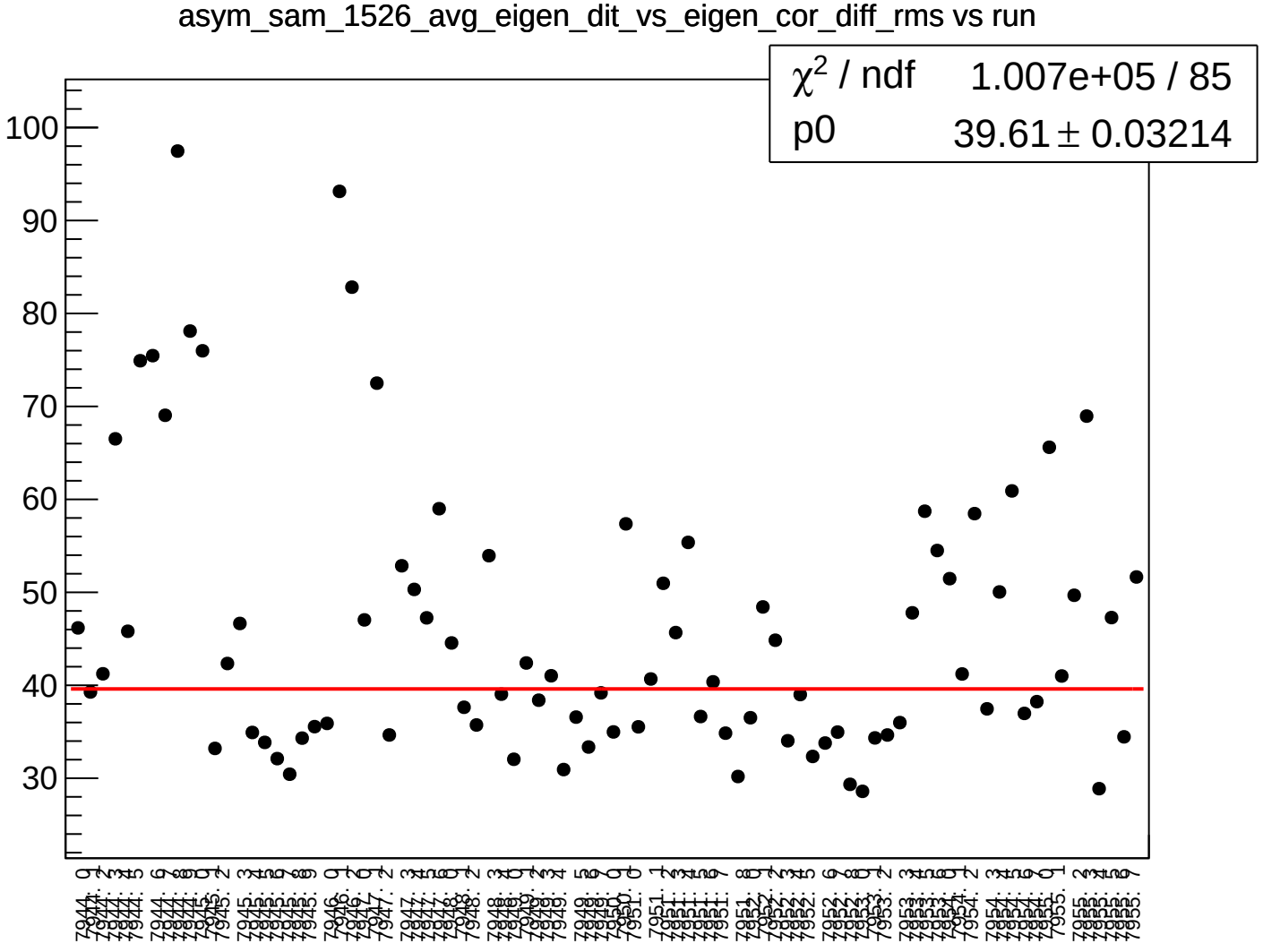

pull1D
Entries 86
Mean −0.01017
Std Dev 1.034

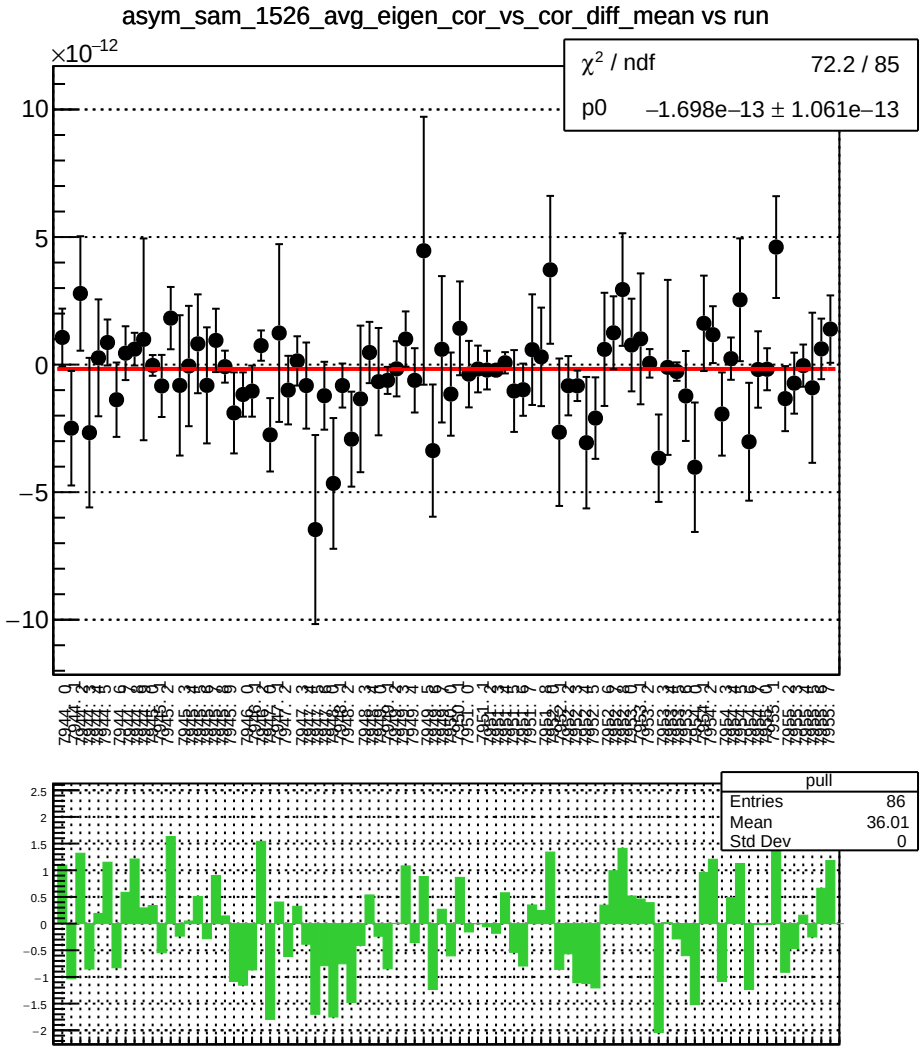

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6579 / 85
p0 0.00233 ± 1.835e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

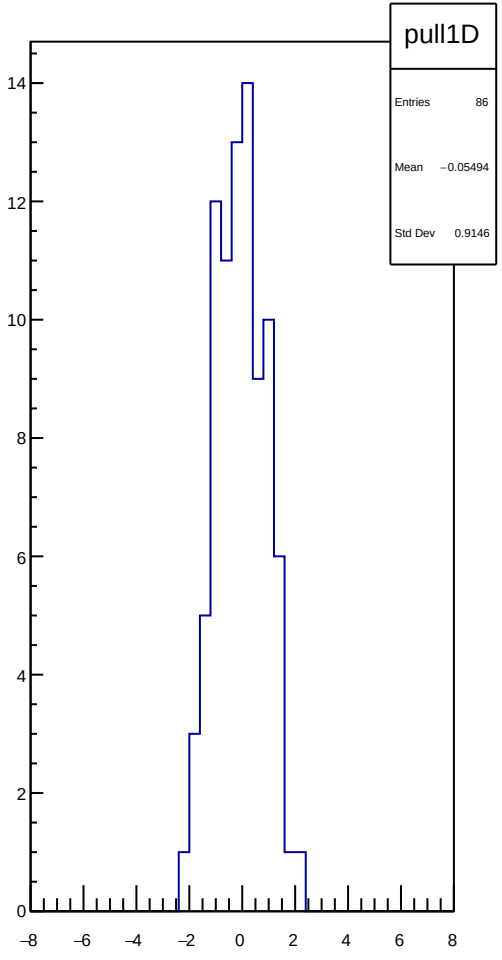

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.14 / 85
p0 −0.01586 ± 0.04546
pull
Entries 86
Mean 1518
Std Dev 0
pull1D
Entries 86
Mean 0.001091
Std Dev 0.9471

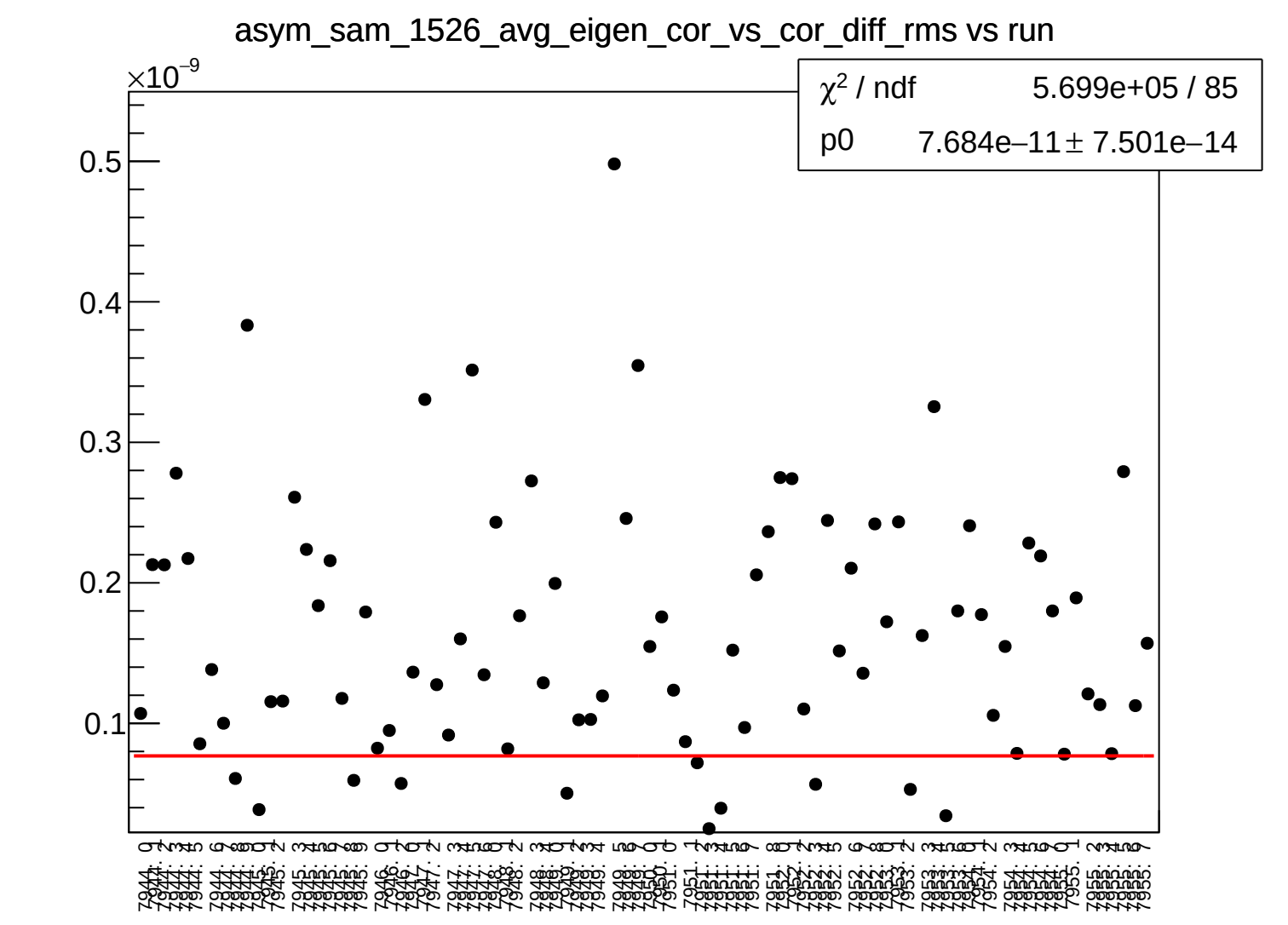

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.007e+05 / 85
p0 39.61 ± 0.03214
100
90
80
70
60
50
40
30

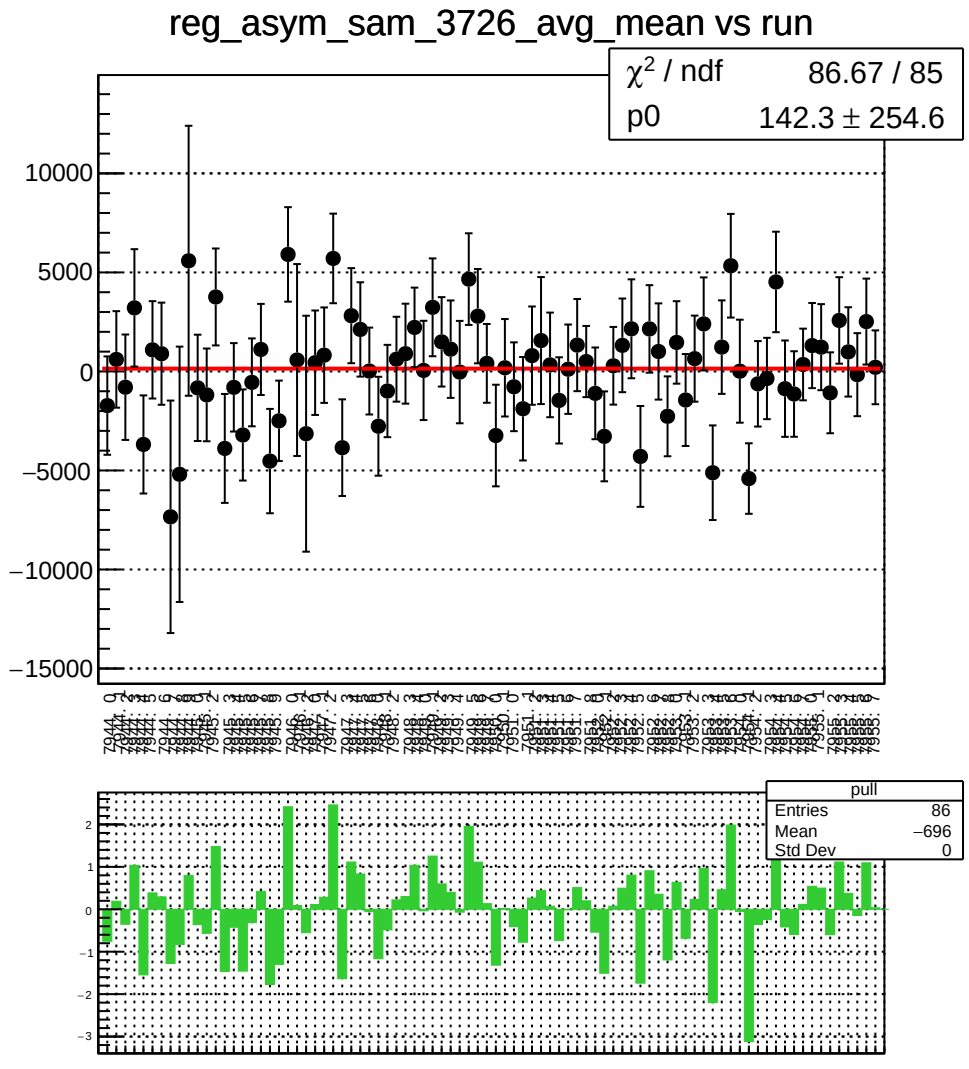

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.14 / 85
p0 −0.01586 ± 0.04546
pull
Entries 86
Mean 1518
Std Dev 0
pull1D
Entries 86
Mean 0.001091
Std Dev 0.9471

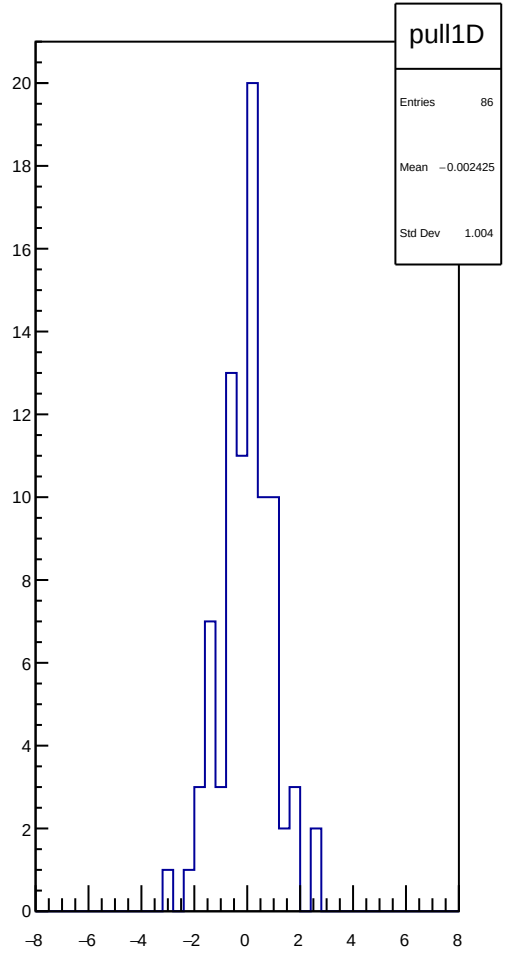

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.007e+05 / 85
p0 39.61 ± 0.03214
100
90
80
70
60
50
40
30

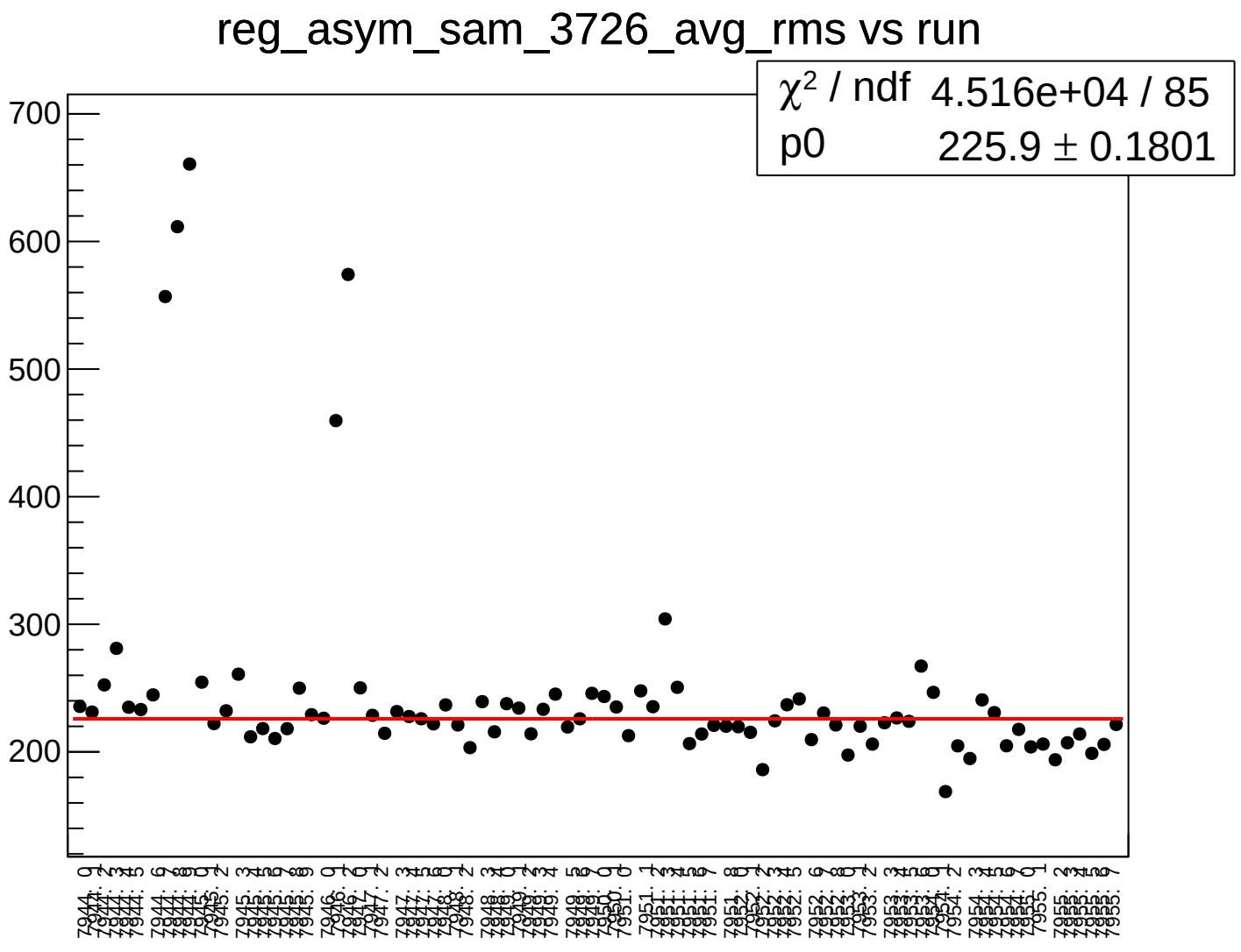

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.2 / 85
p0 −1.698e−13 ± 1.061e−13
10
5
0
−5
−10
pull
Entries 86
Mean 36.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

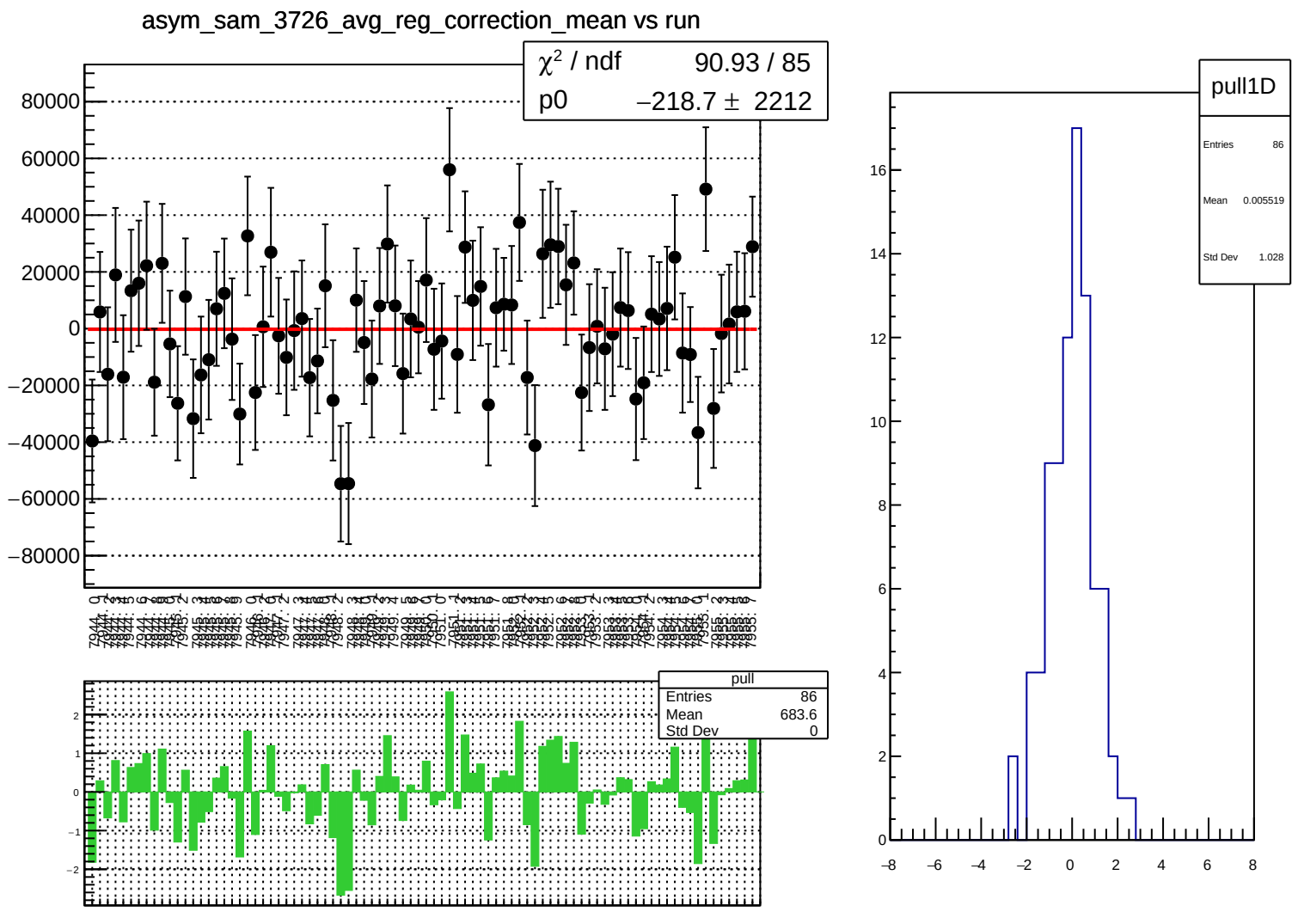

pull1D
Entries 86
Mean −0.05494
Std Dev 0.9146
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

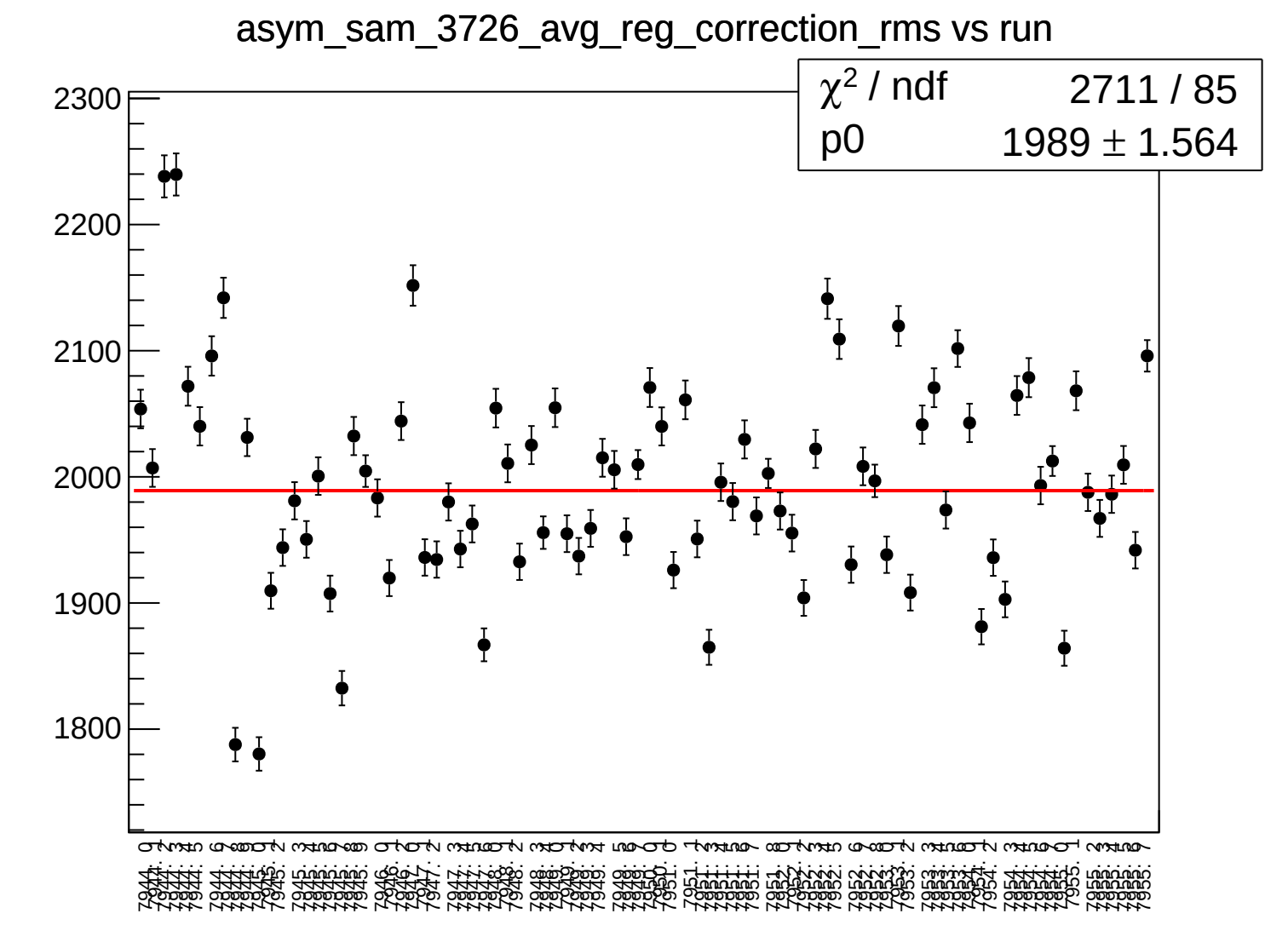

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.699e+05 / 85
p0 7.684e−11 ± 7.501e−14
0.5
0.4
0.3
0.2
0.1

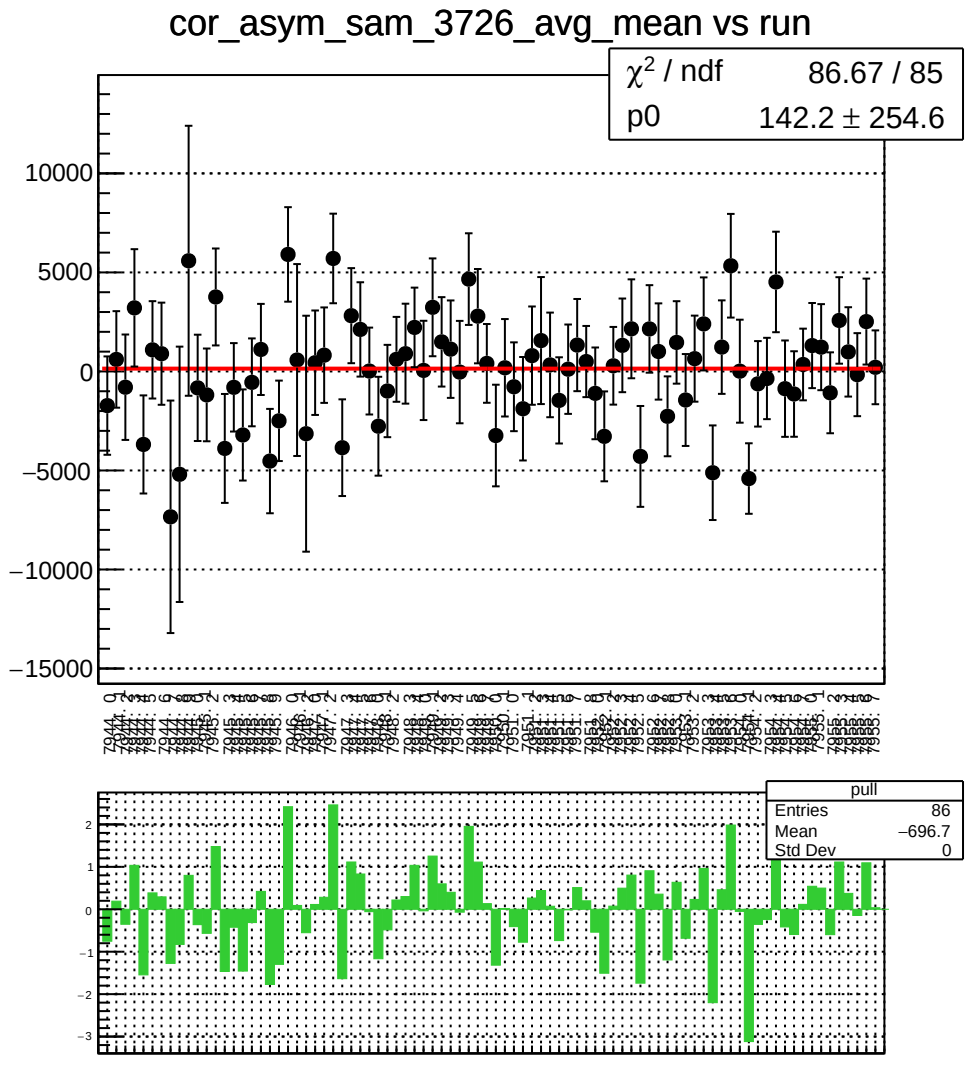

reg_asym_sam_3726_avg_mean vs run
χ^2 / ndf 86.67 / 85
p0 142.3 ± 254.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −696
Std Dev 0
2
1
0
−1
−2
−3

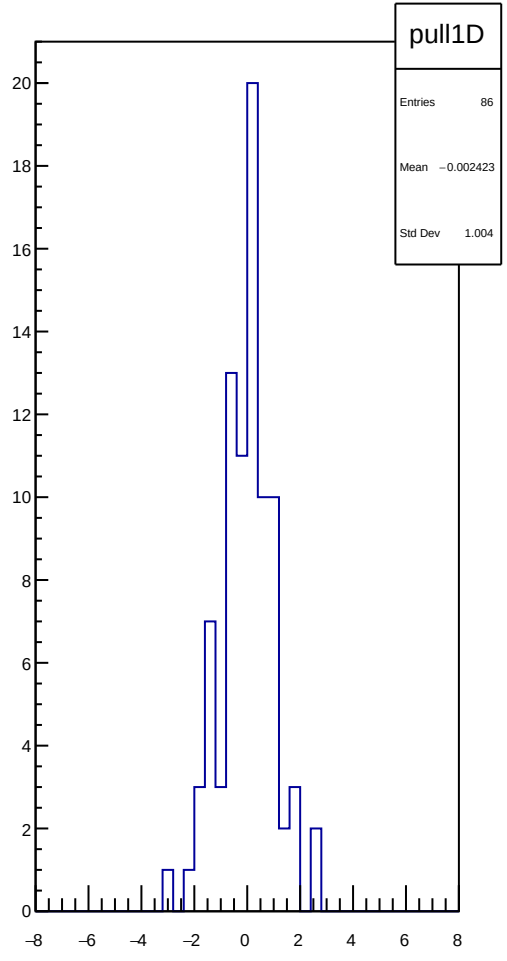

pull1D
Entries 86
Mean −0.002425
Std Dev 1.004
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

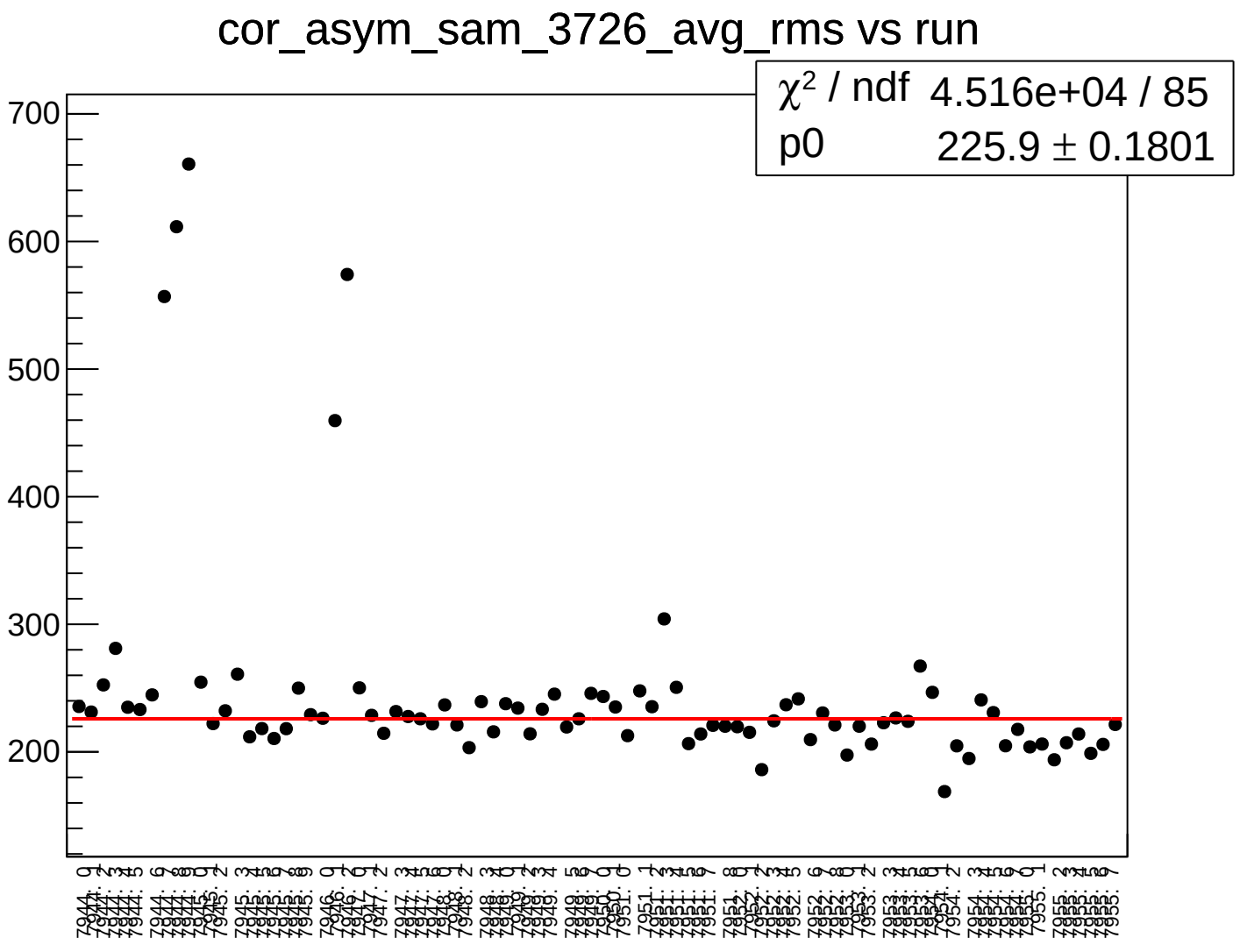

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 4.516e+04 / 85
p0 225.9 ± 0.1801
700
600
500
400
300
200

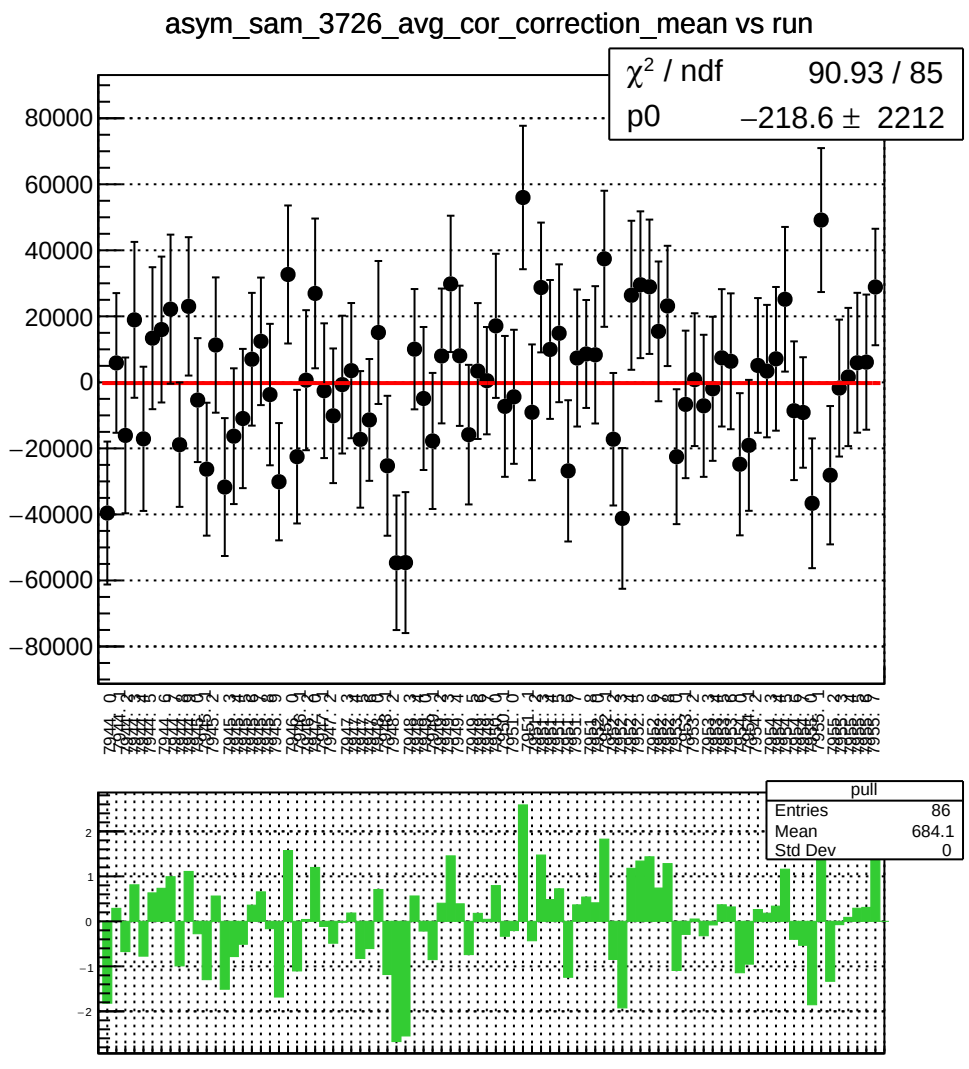

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 90.93 / 85
p0 −218.7 ± 2212
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 683.6
Std Dev 0
pull1D
Entries 86
Mean 0.005519
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

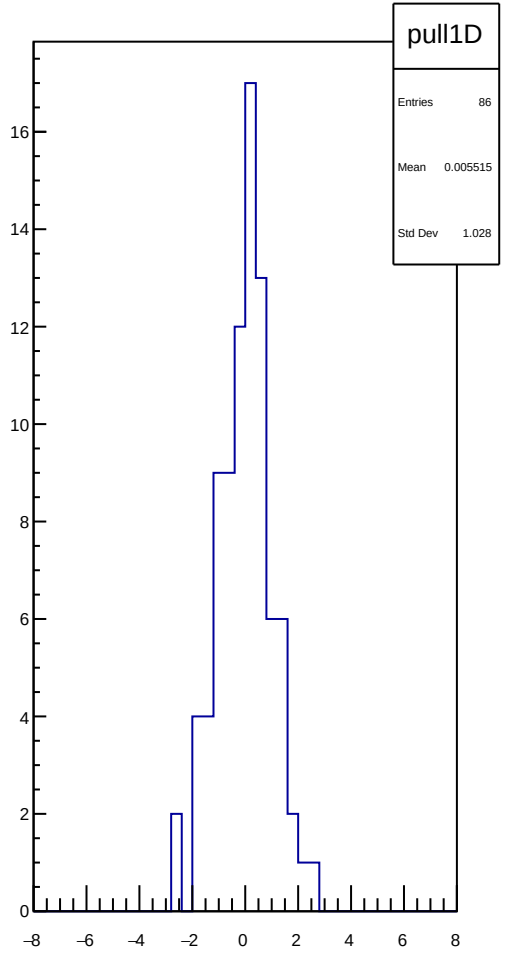

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 2711 / 85
p0 1989 ± 1.564
2300
2200
2100
2000
1900
1800

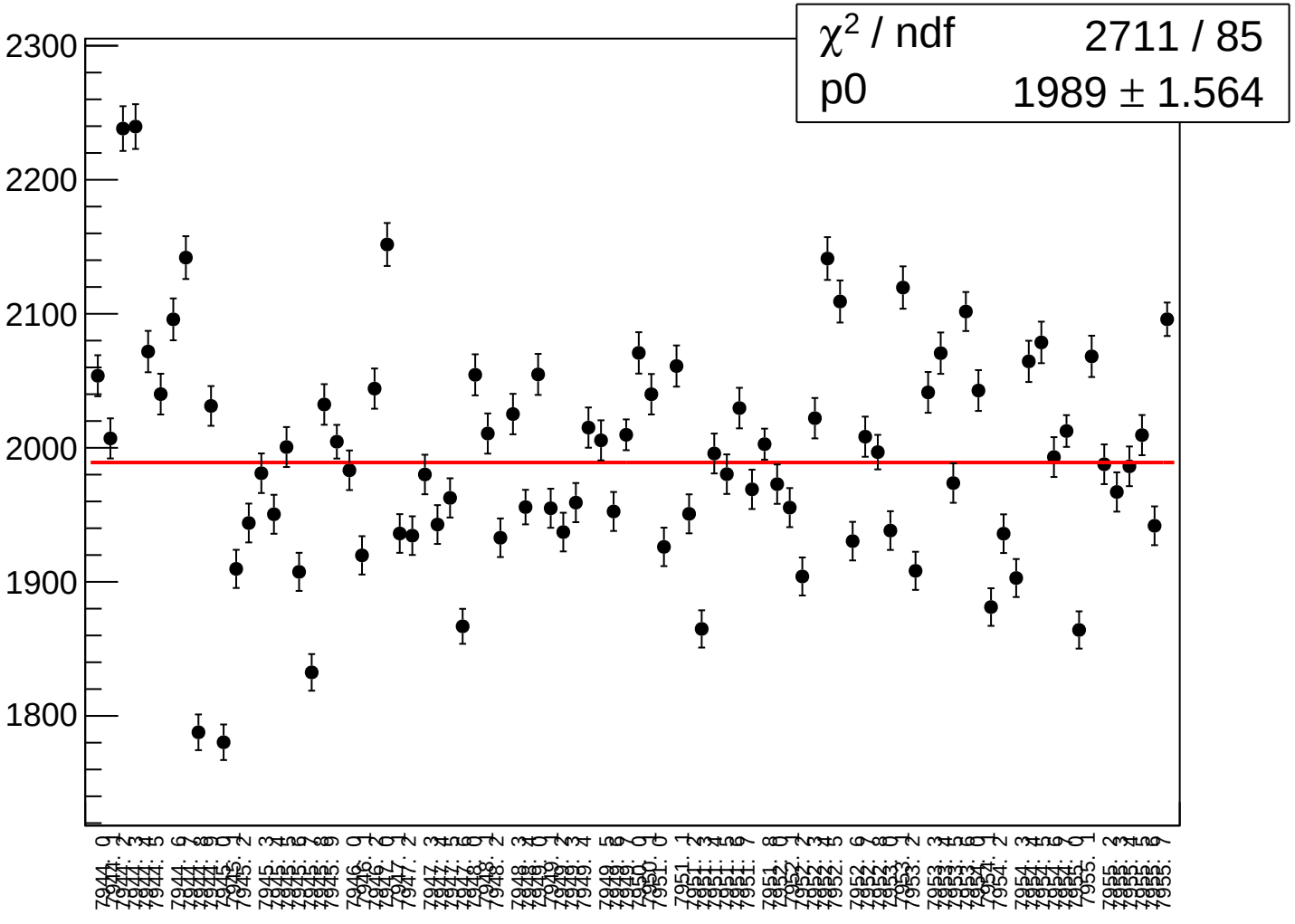

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 86.67 / 85
p0 142.2 ± 254.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −696.7
Std Dev 0
2
1
0
−1
−2
−3

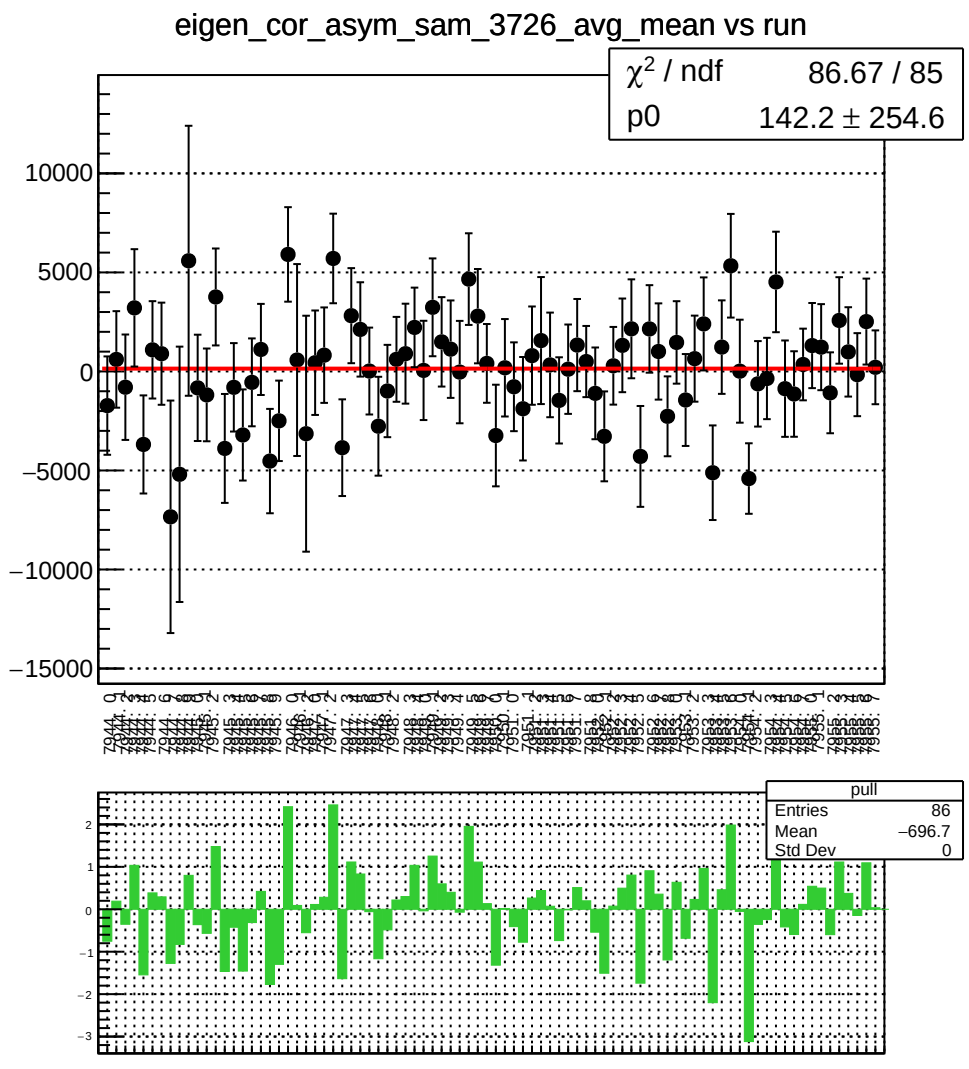

pull1D
Entries 86
Mean −0.002423
Std Dev 1.004
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

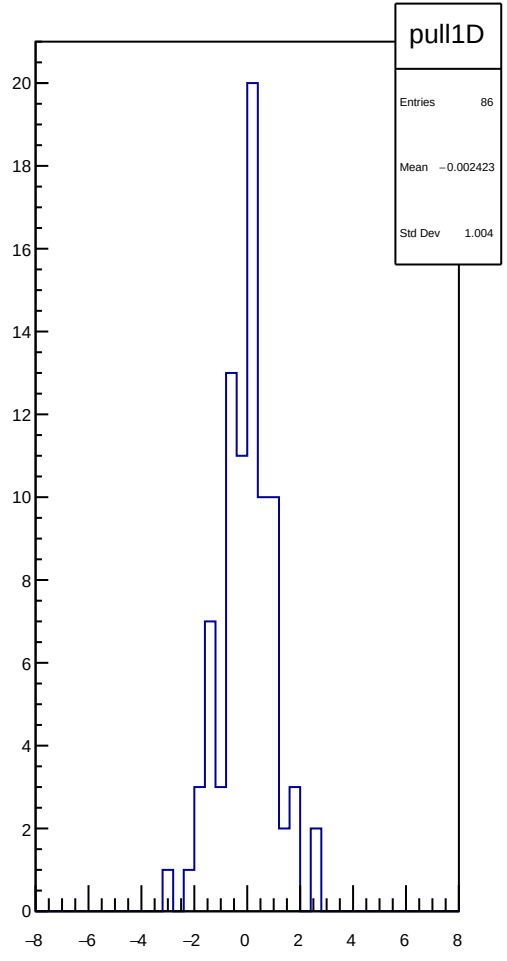

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.516e+04 / 85
p0 225.9 ± 0.1801
700
600
500
400
300
200

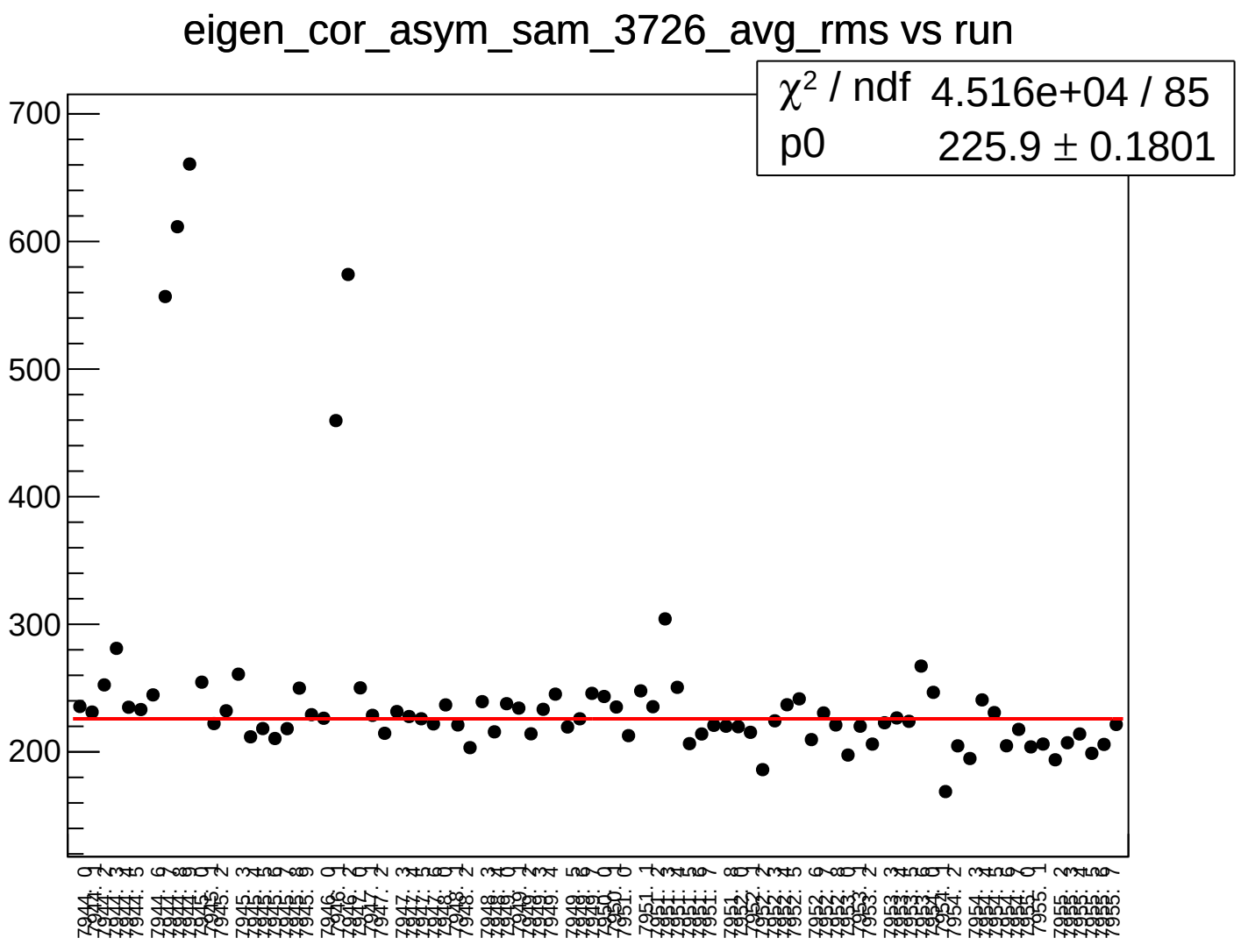

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 90.93 / 85
p0 −218.6 ± 2212
pull
Entries 86
Mean 684.1
Std Dev 0

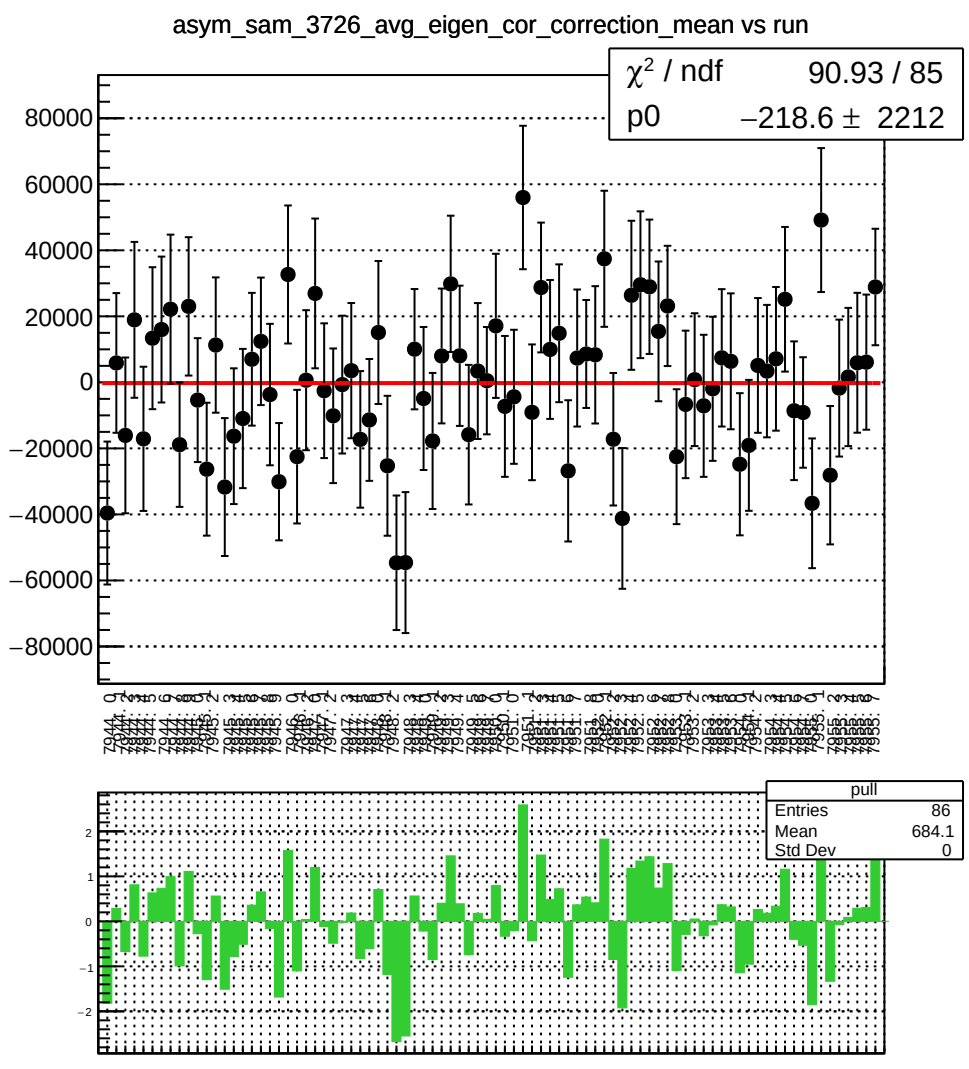

pull1D
Entries 86
Mean 0.005515
Std Dev 1.028

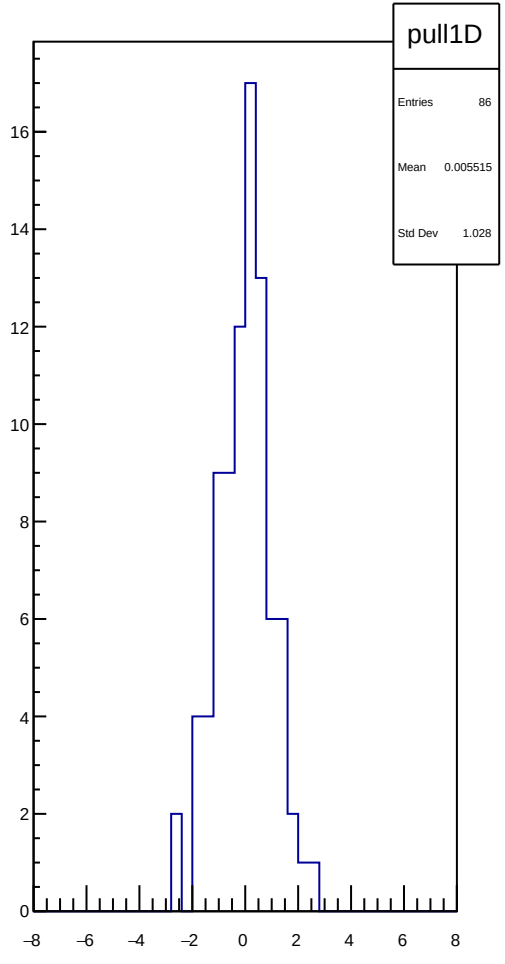

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 2711 / 85
p0 1989 ± 1.564
2300
2200
2100
2000
1900
1800

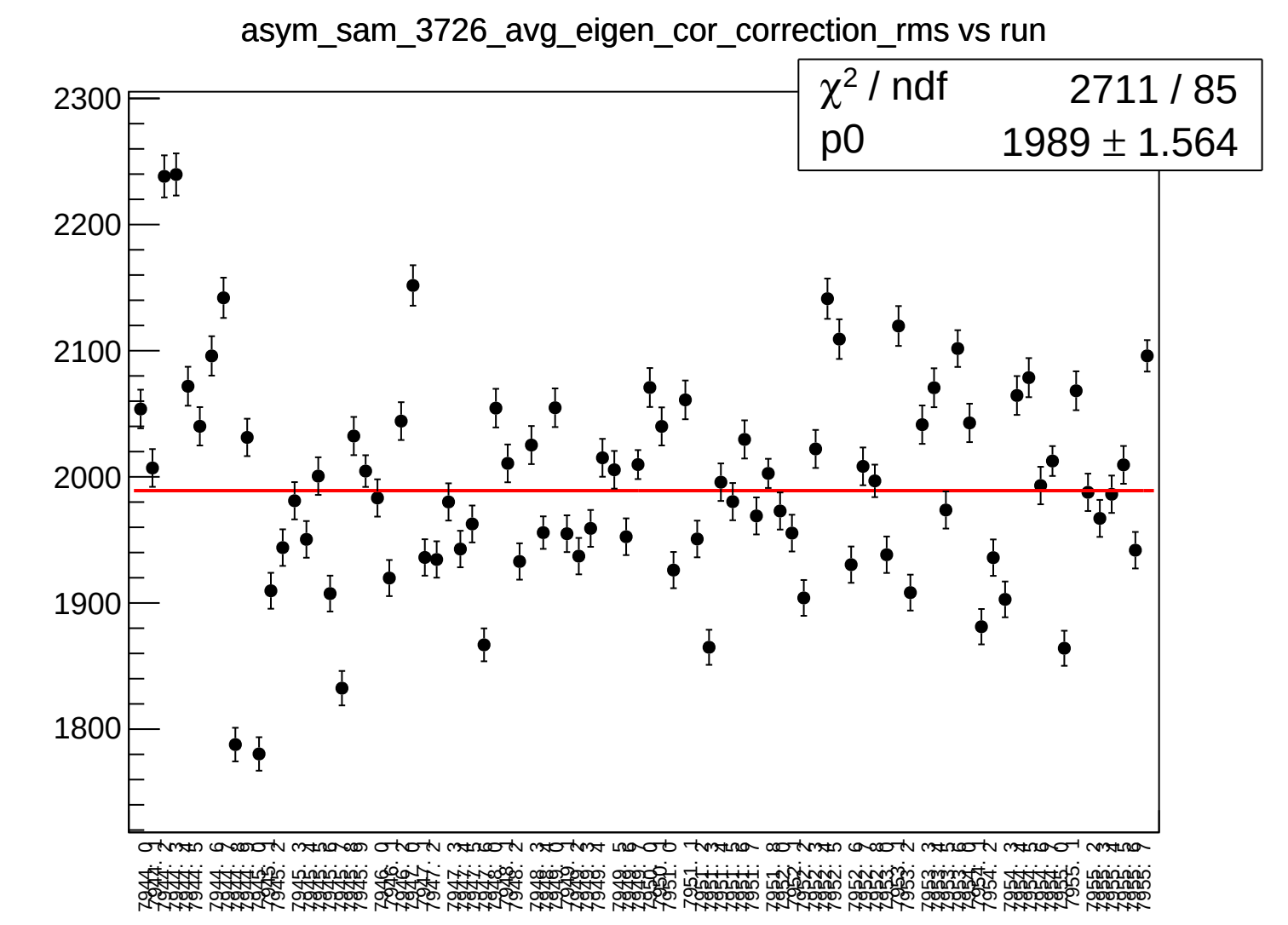

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 86.67 / 85
p0 142.2 ± 254.6
pull
Entries 86
Mean −696.7
Std Dev 0

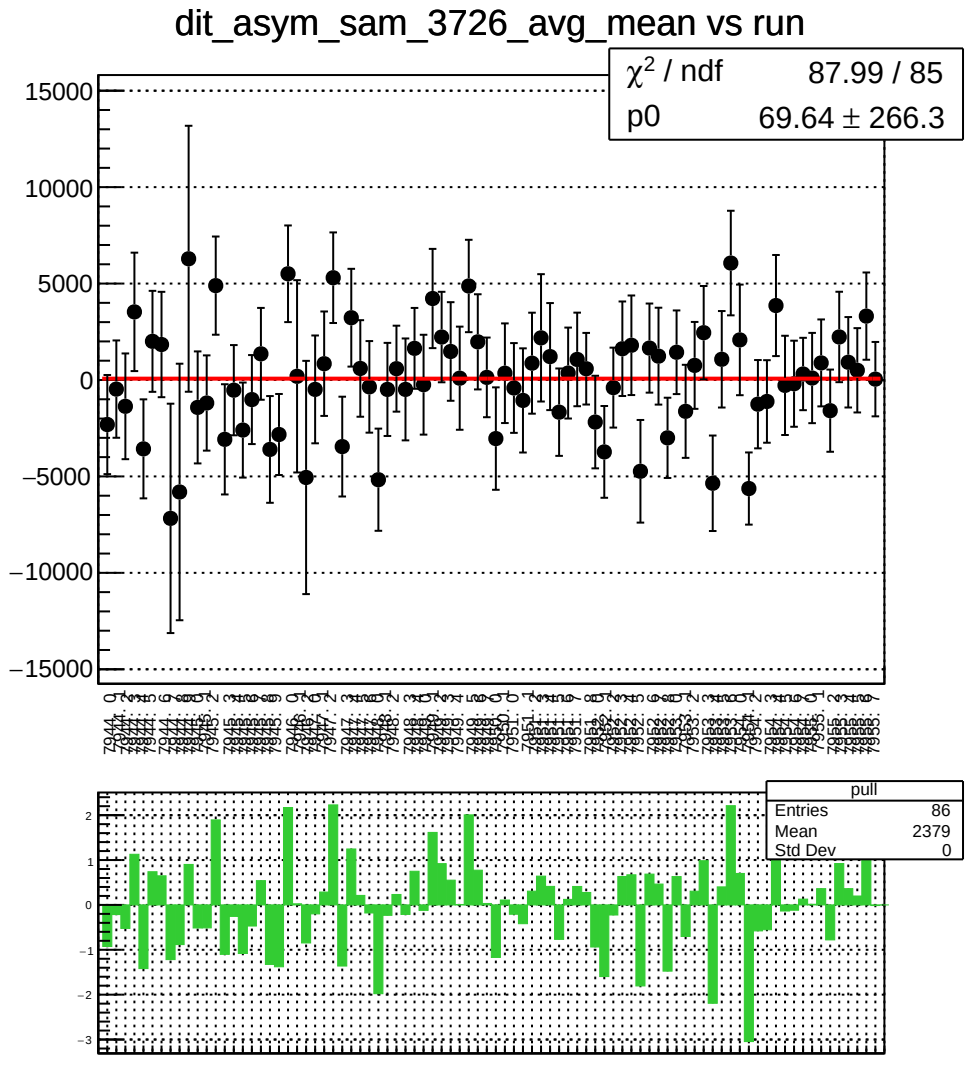

pull1D
Entries 86
Mean −0.002423
Std Dev 1.004

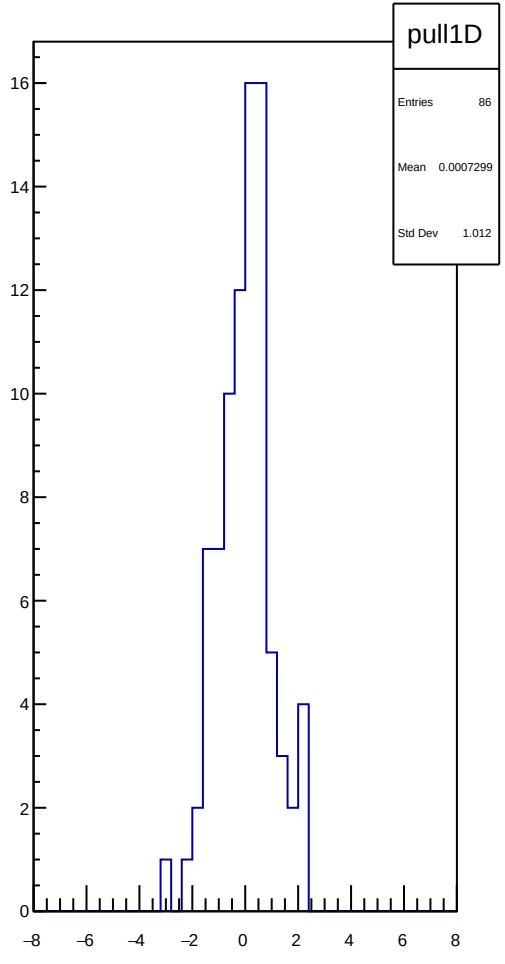

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.516e+04 / 85
p0 225.9 ± 0.1801
700
600
500
400
300
200

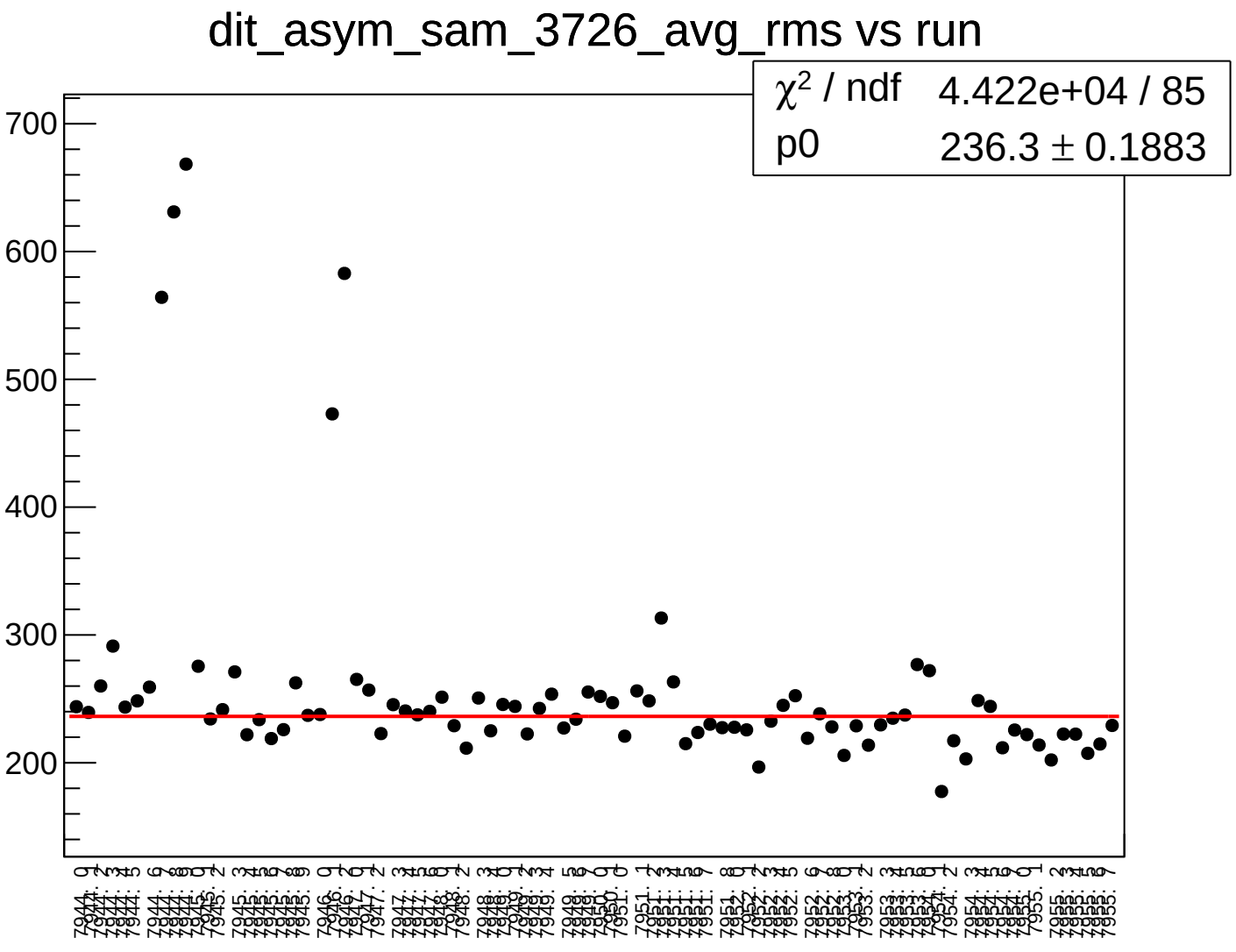

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.93 / 85
p0 −218.6 ± 2212
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 684.1
Std Dev 0
2
1
0
−1
−2

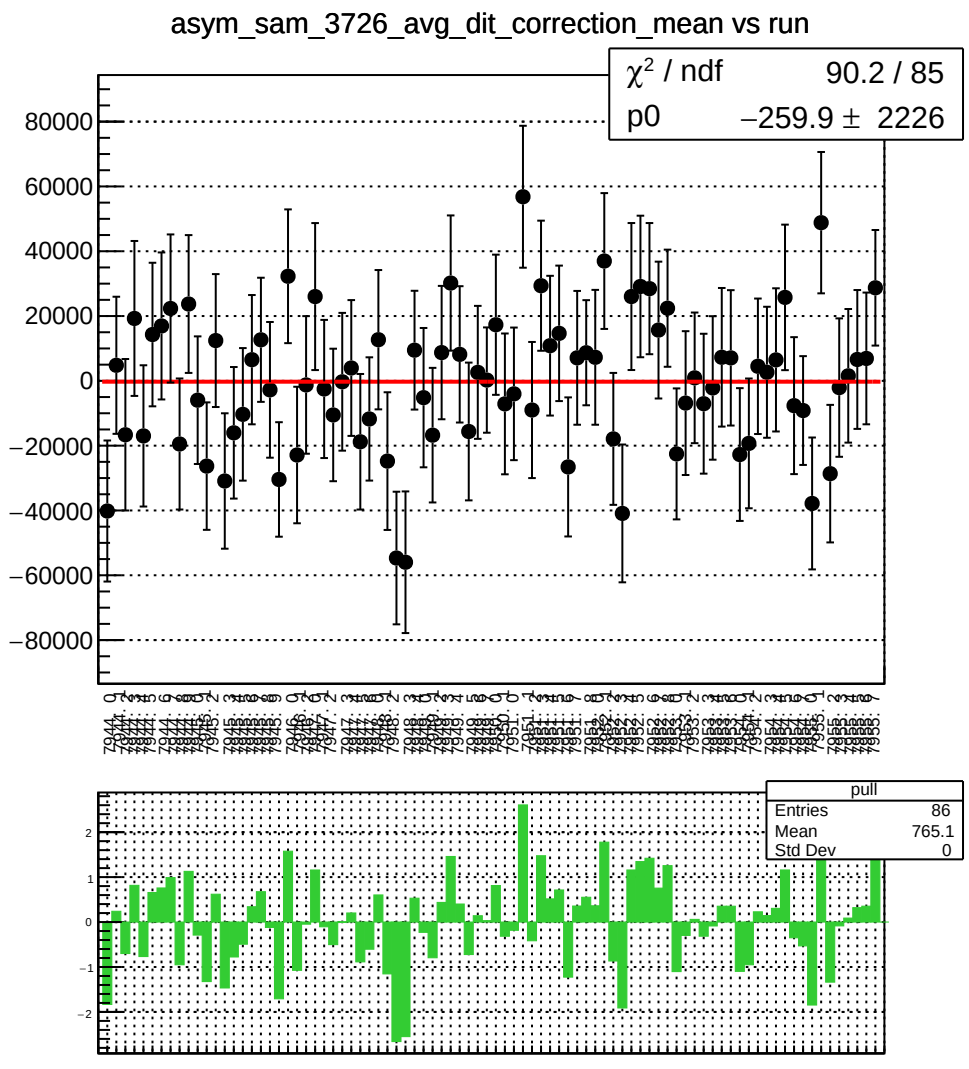

pull1D
Entries 86
Mean 0.005515
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

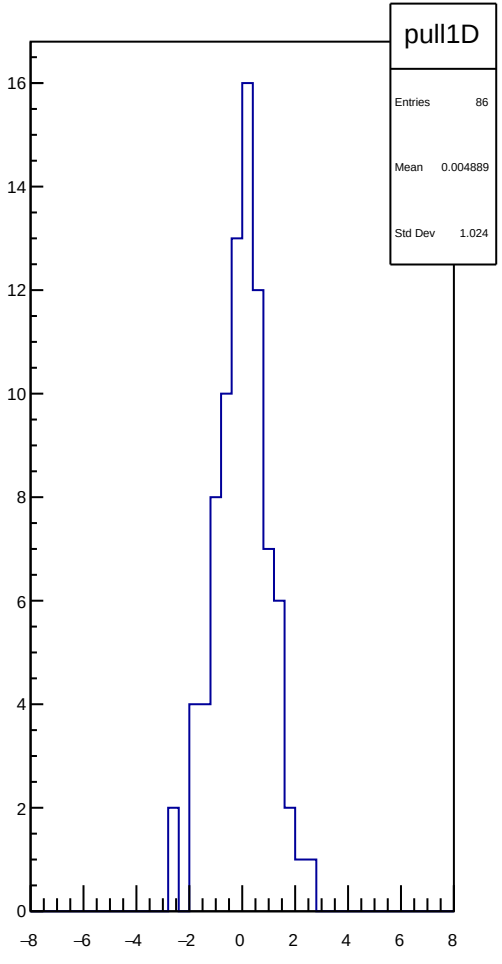

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 2711 / 85
p0 1989 ± 1.564
2300
2200
2100
2000
1900
1800

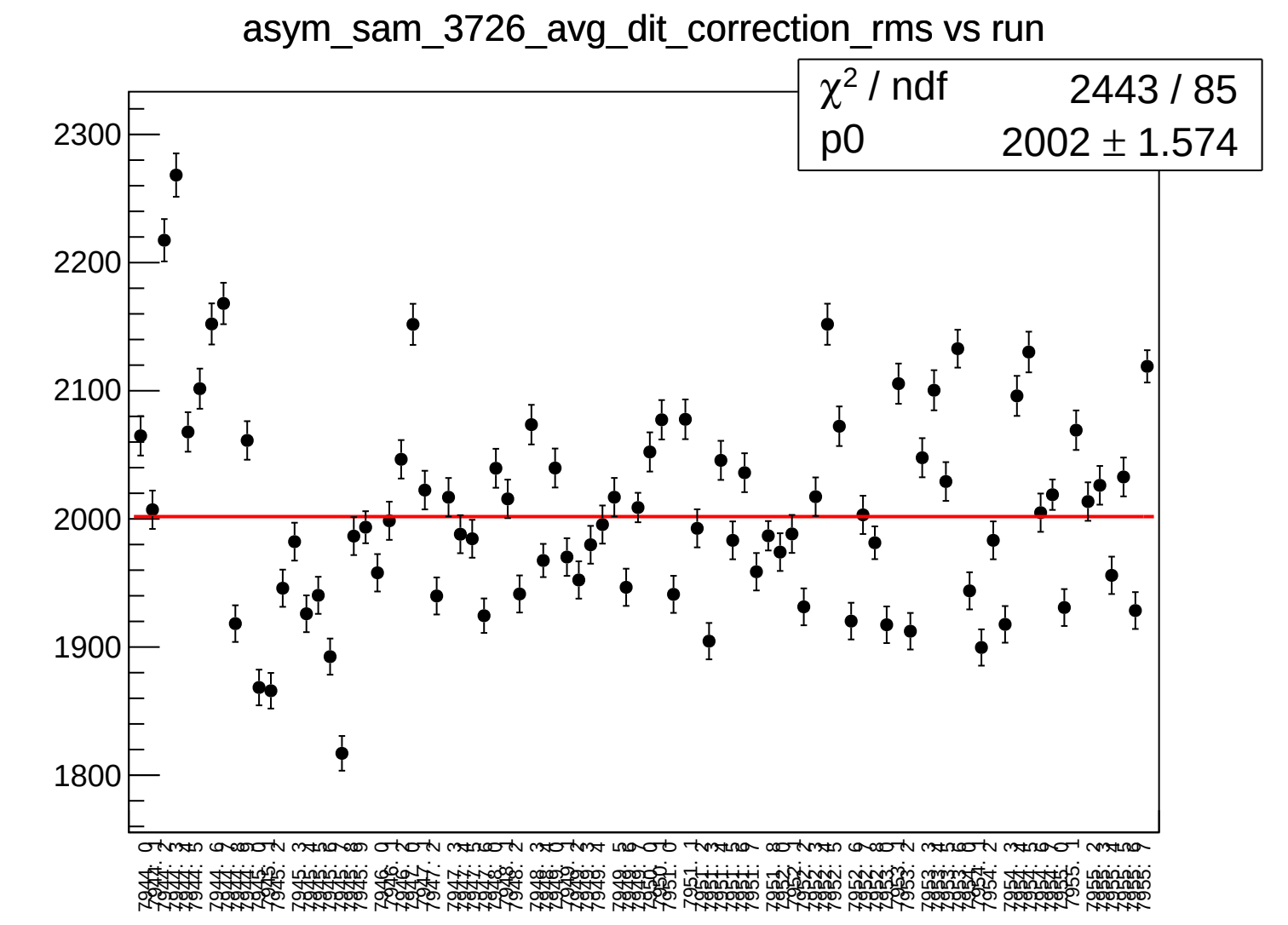

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 87.99 / 85
p0 69.64 ± 266.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 2379
Std Dev 0
2
1
0
−1
−2
−3

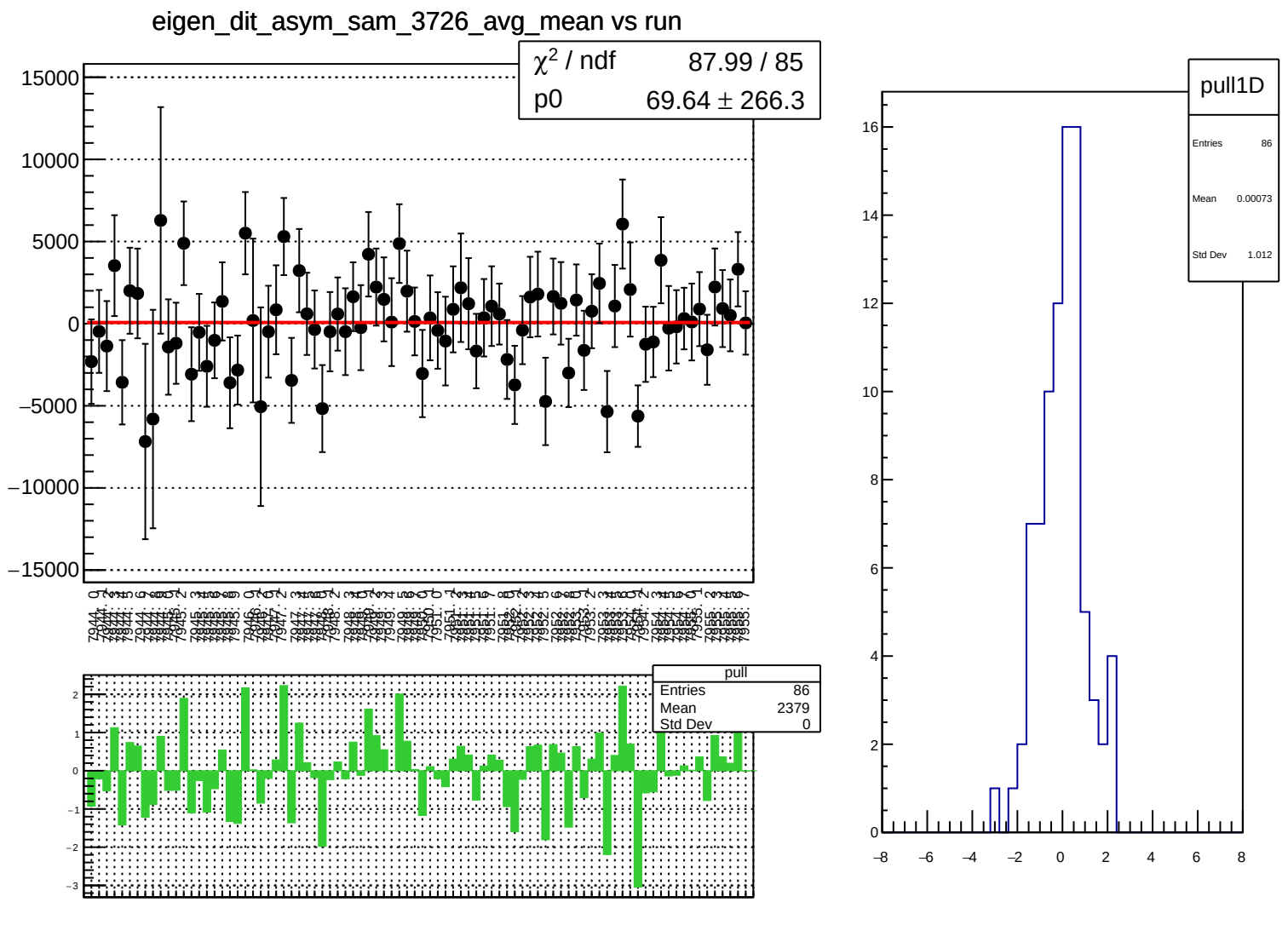

pull1D
Entries 86
Mean 0.0007299
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

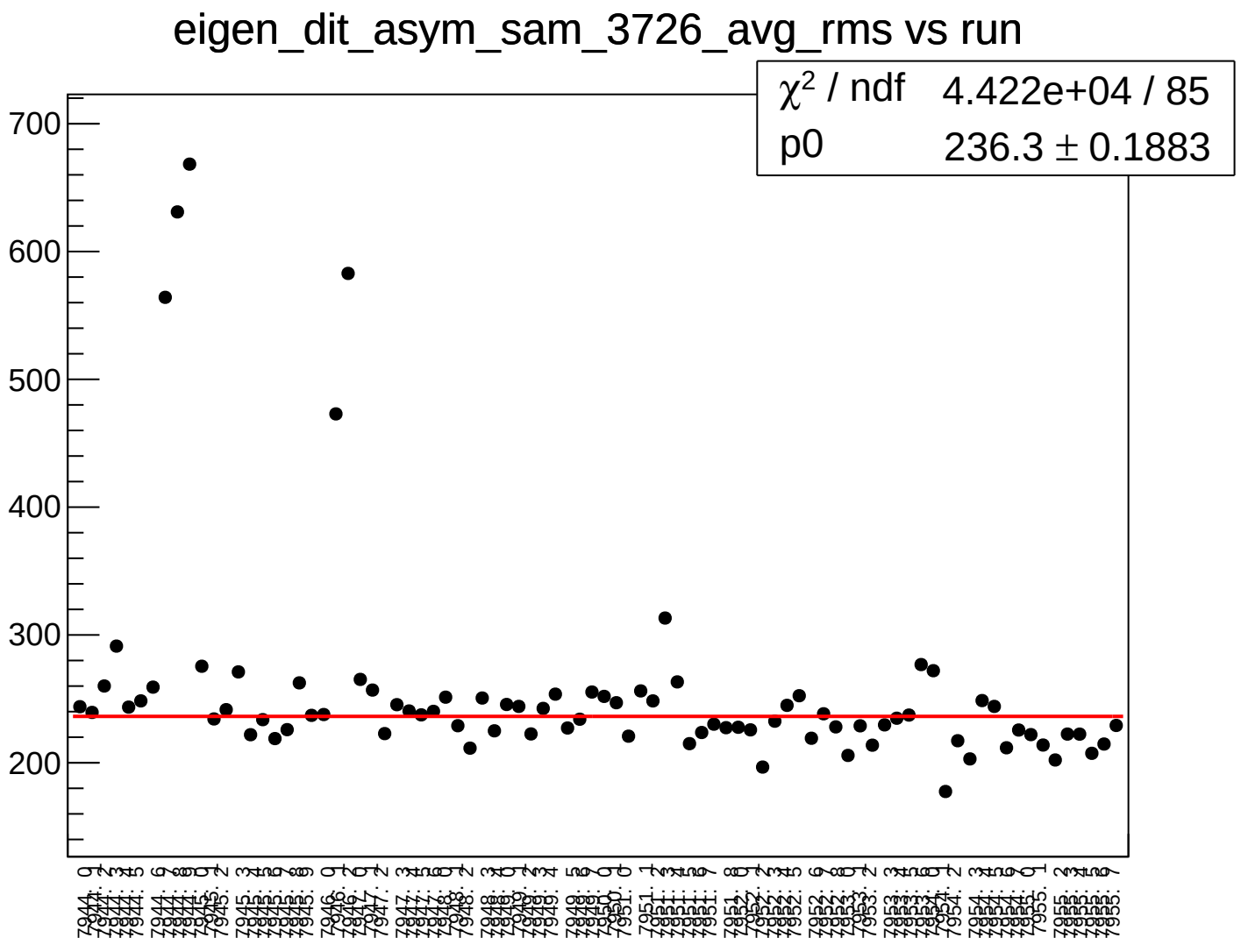

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.422e+04 / 85
p0 236.3 ± 0.1883
700
600
500
400
300
200

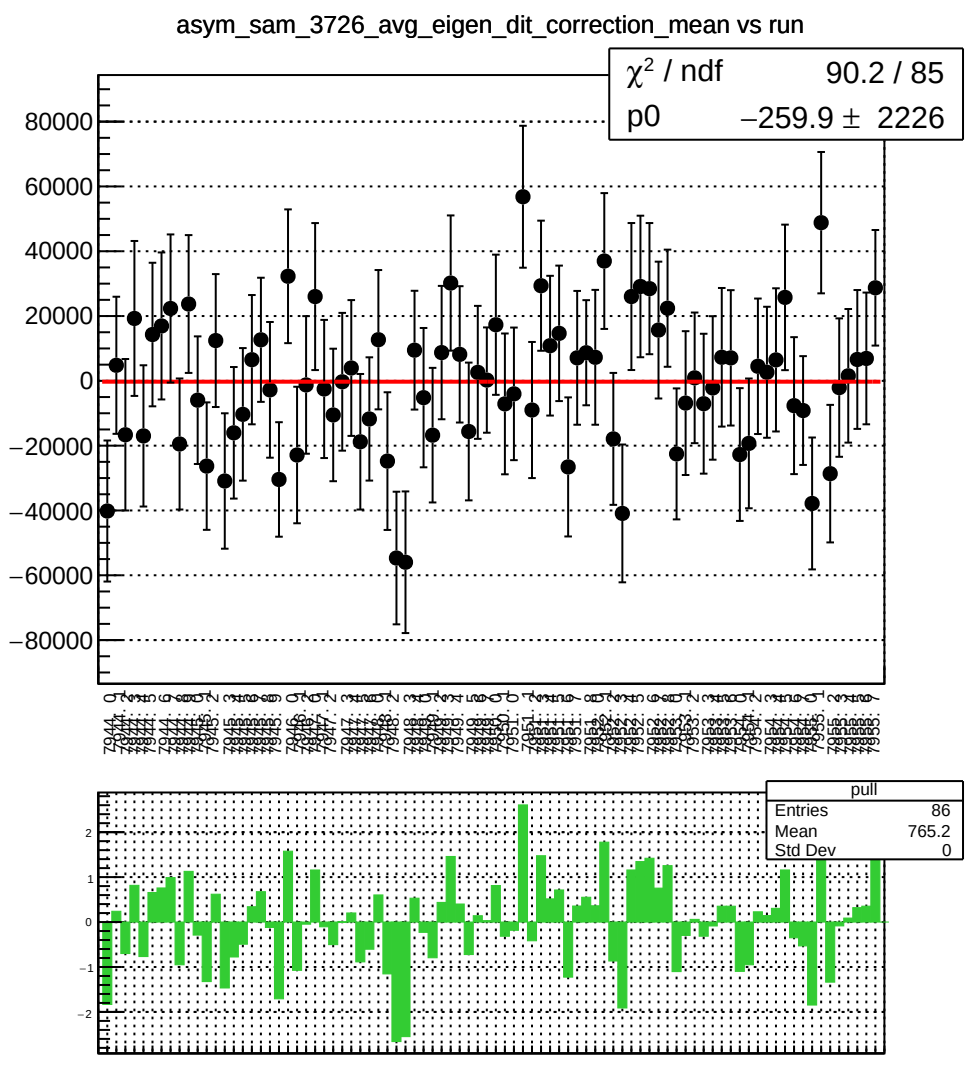

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 90.2 / 85
p0 −259.9 ± 2226
pull
Entries 86
Mean 765.1
Std Dev 0

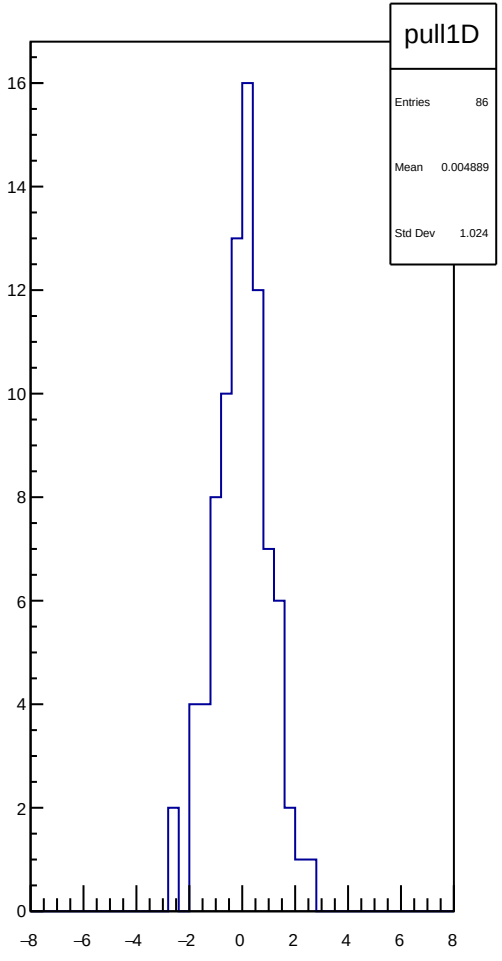

pull1D
Entries 86
Mean 0.004889
Std Dev 1.024

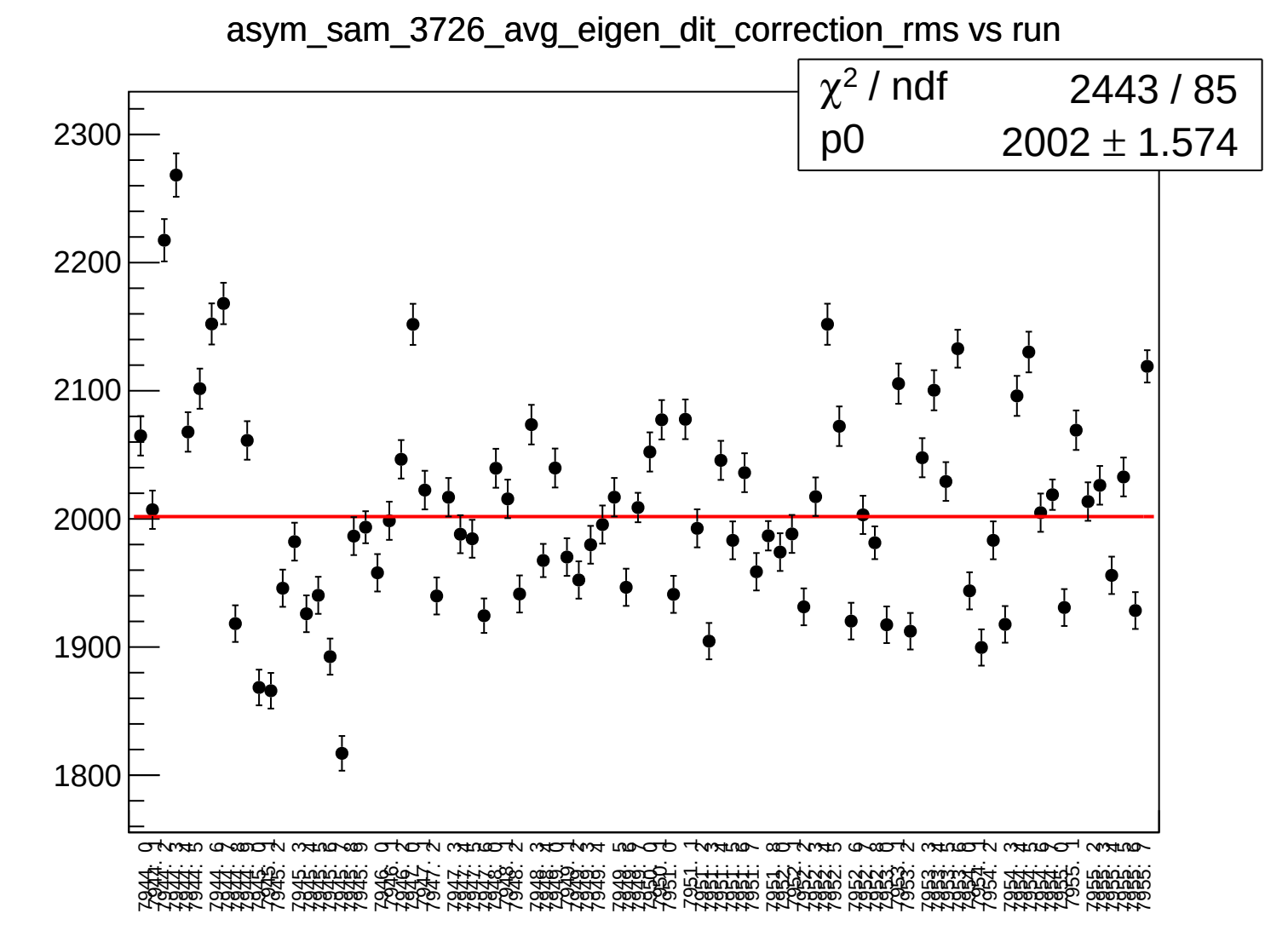

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 2443 / 85
p0 2002 ± 1.574
2300
2200
2100
2000
1900
1800

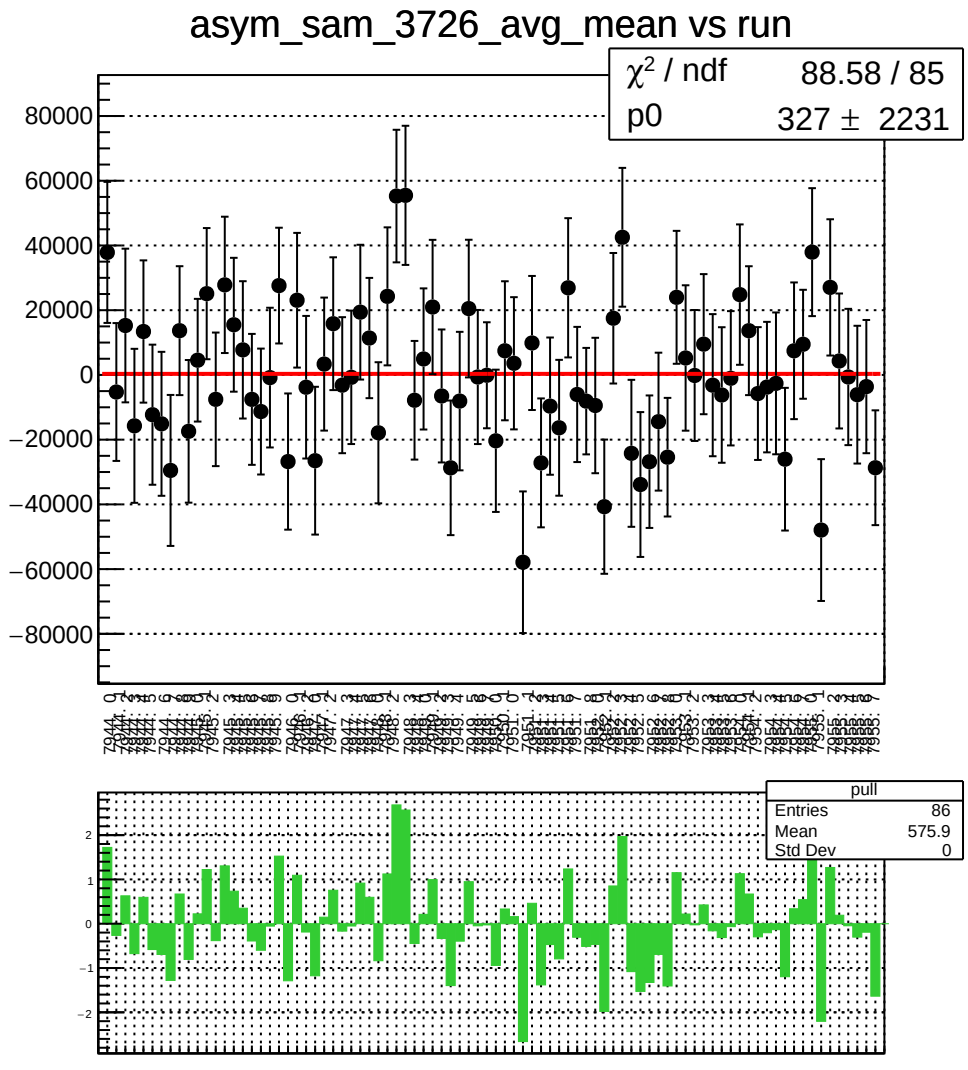

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 87.99 / 85
p0 69.64 ± 266.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 2379
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.00073
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

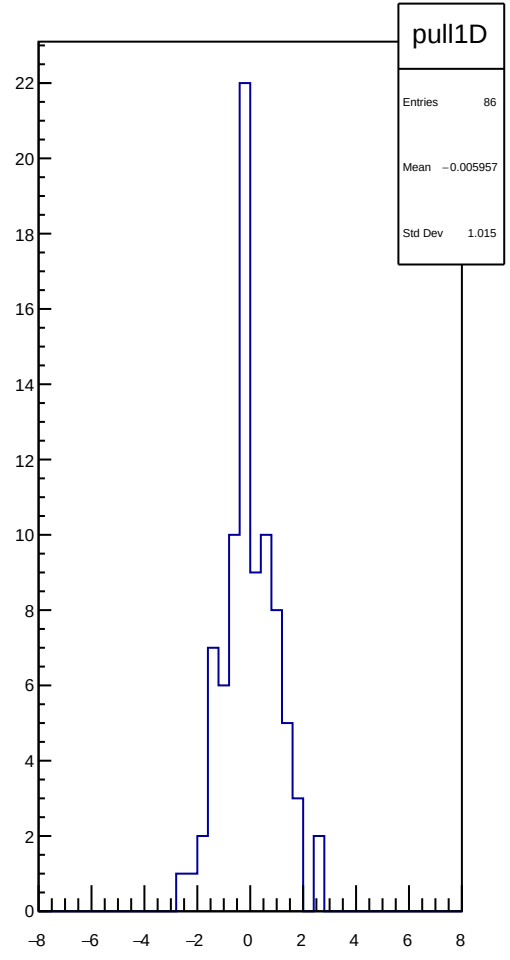

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.422e+04 / 85
p0 236.3 ± 0.1883
700
600
500
400
300
200

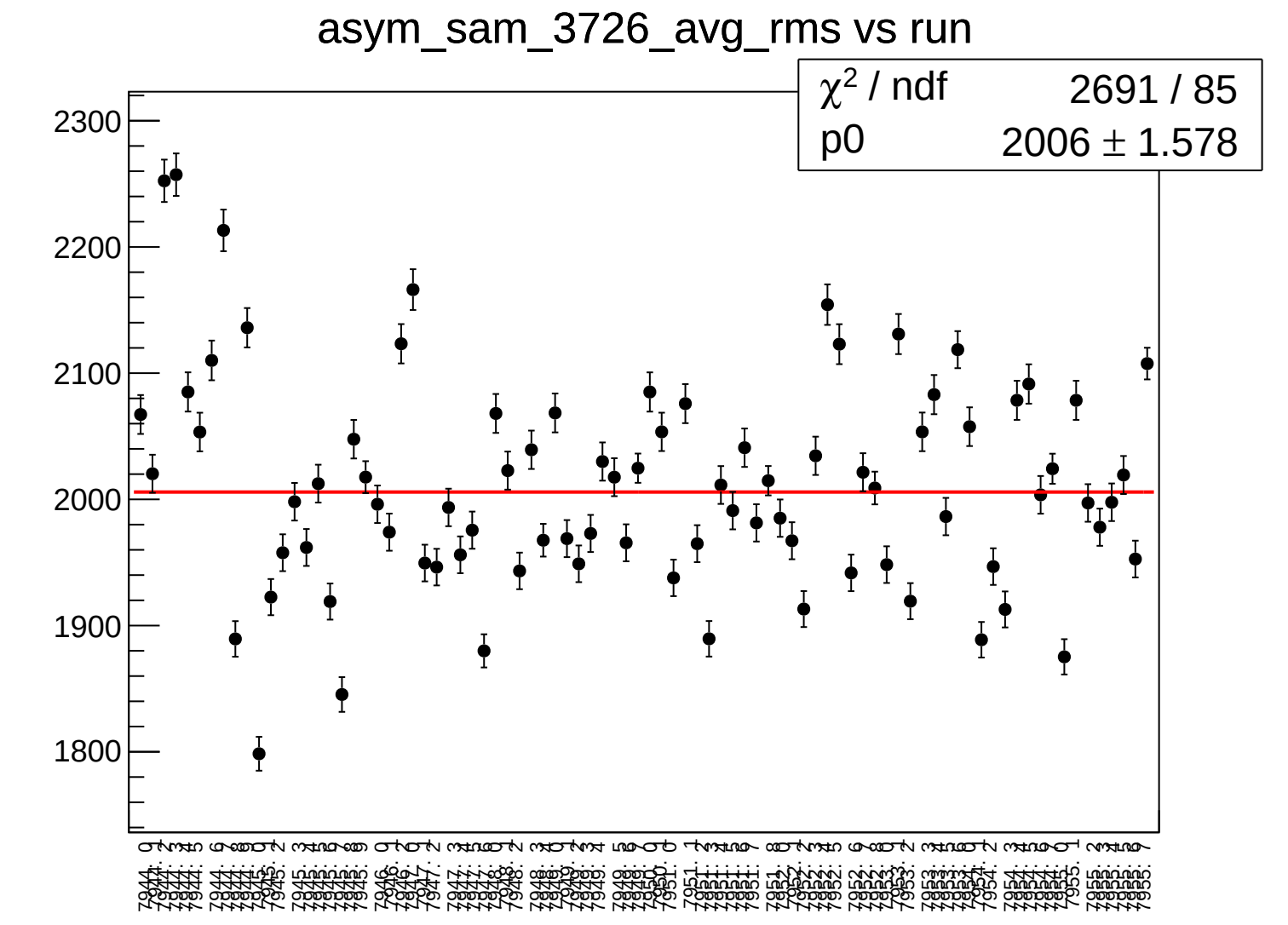

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.2 / 85
p0 −259.9 ± 2226
pull
Entries 86
Mean 765.2
Std Dev 0

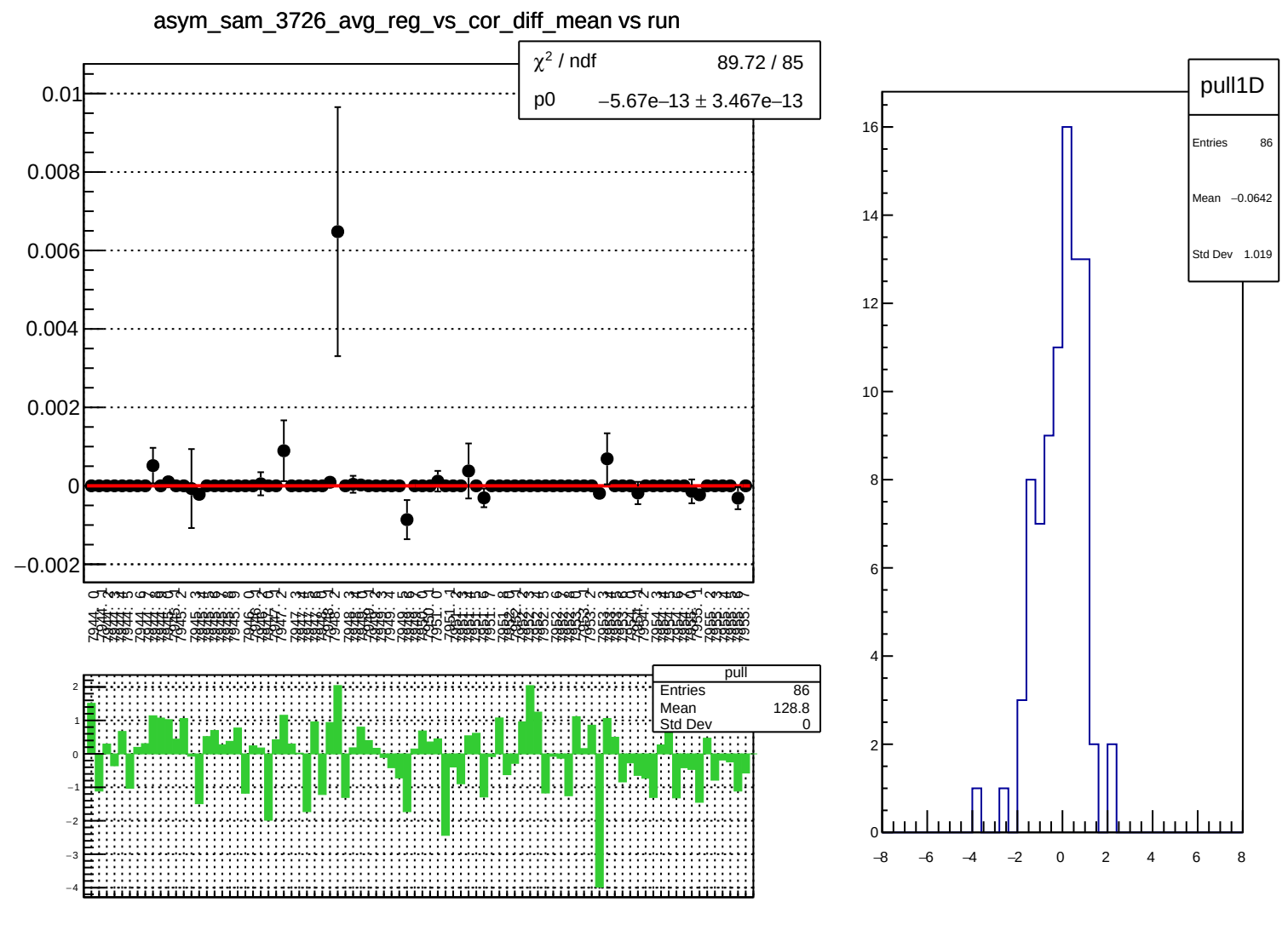

pull1D
Entries 86
Mean 0.004889
Std Dev 1.024

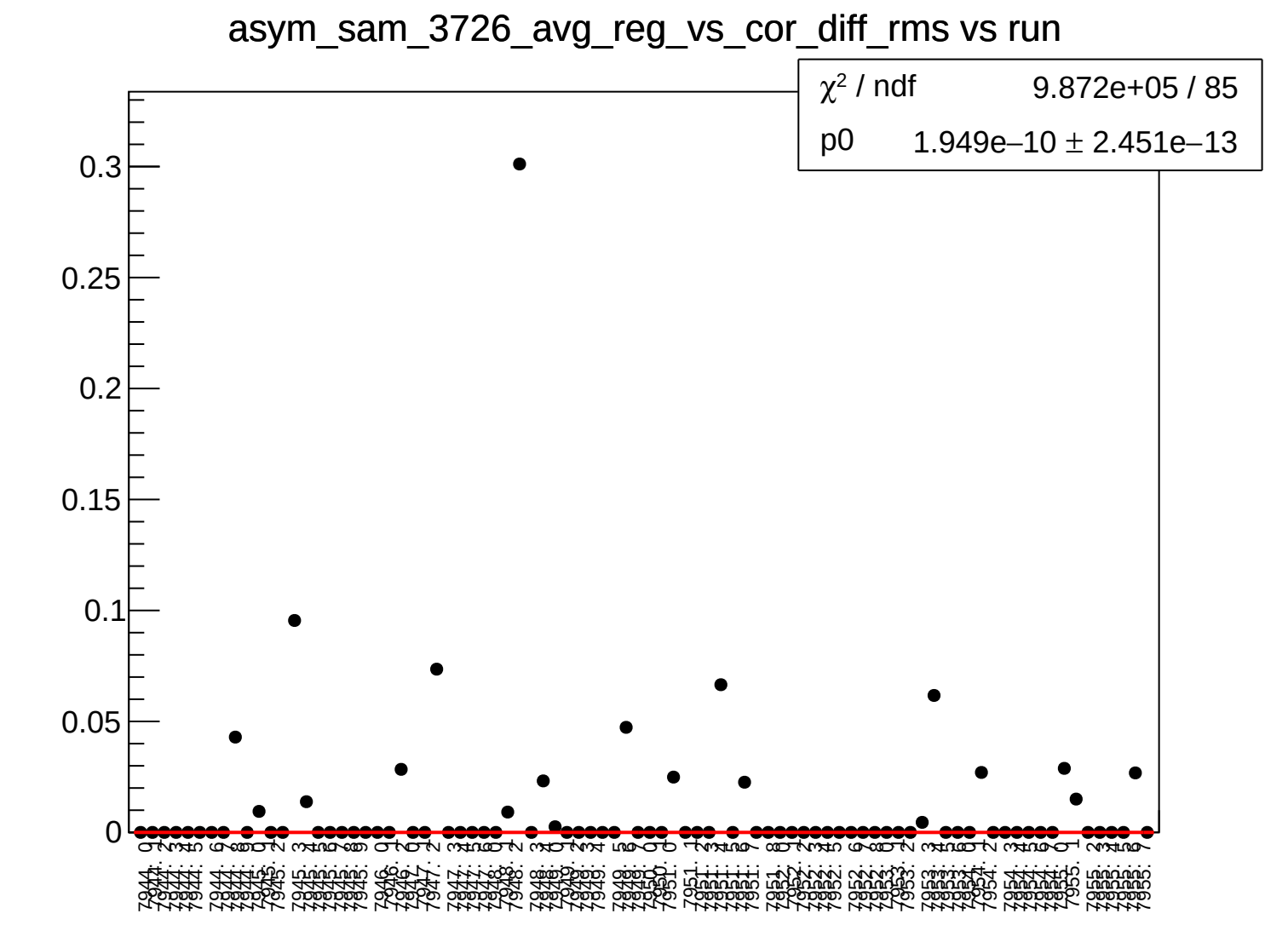

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 2443 / 85
p0 2002 ± 1.574
2300
2200
2100
2000
1900
1800

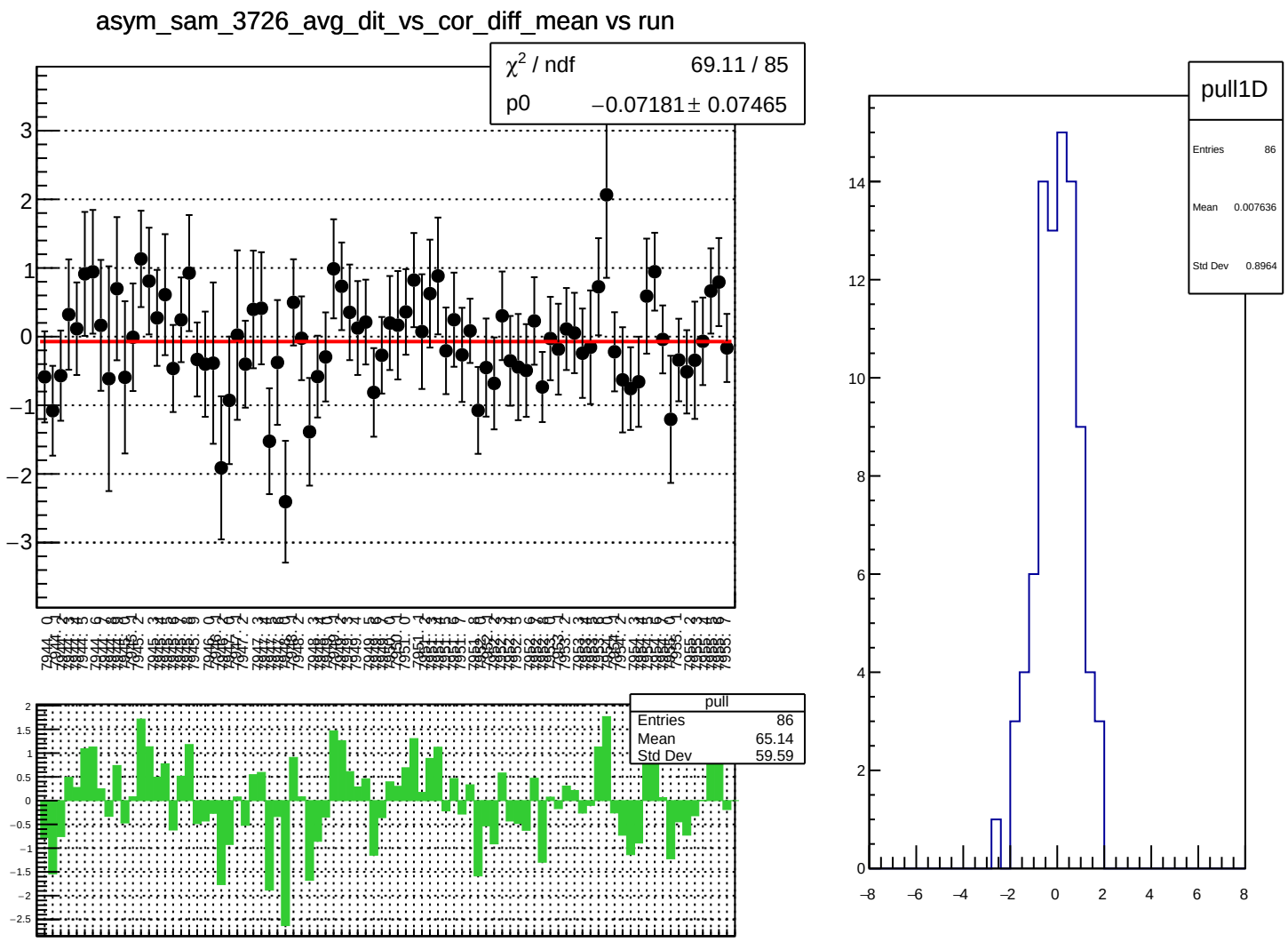

asym_sam_3726_avg_mean vs run
χ² / ndf 88.58 / 85
p0 327 ± 2231
pull
Entries 86
Mean 575.9
Std Dev 0

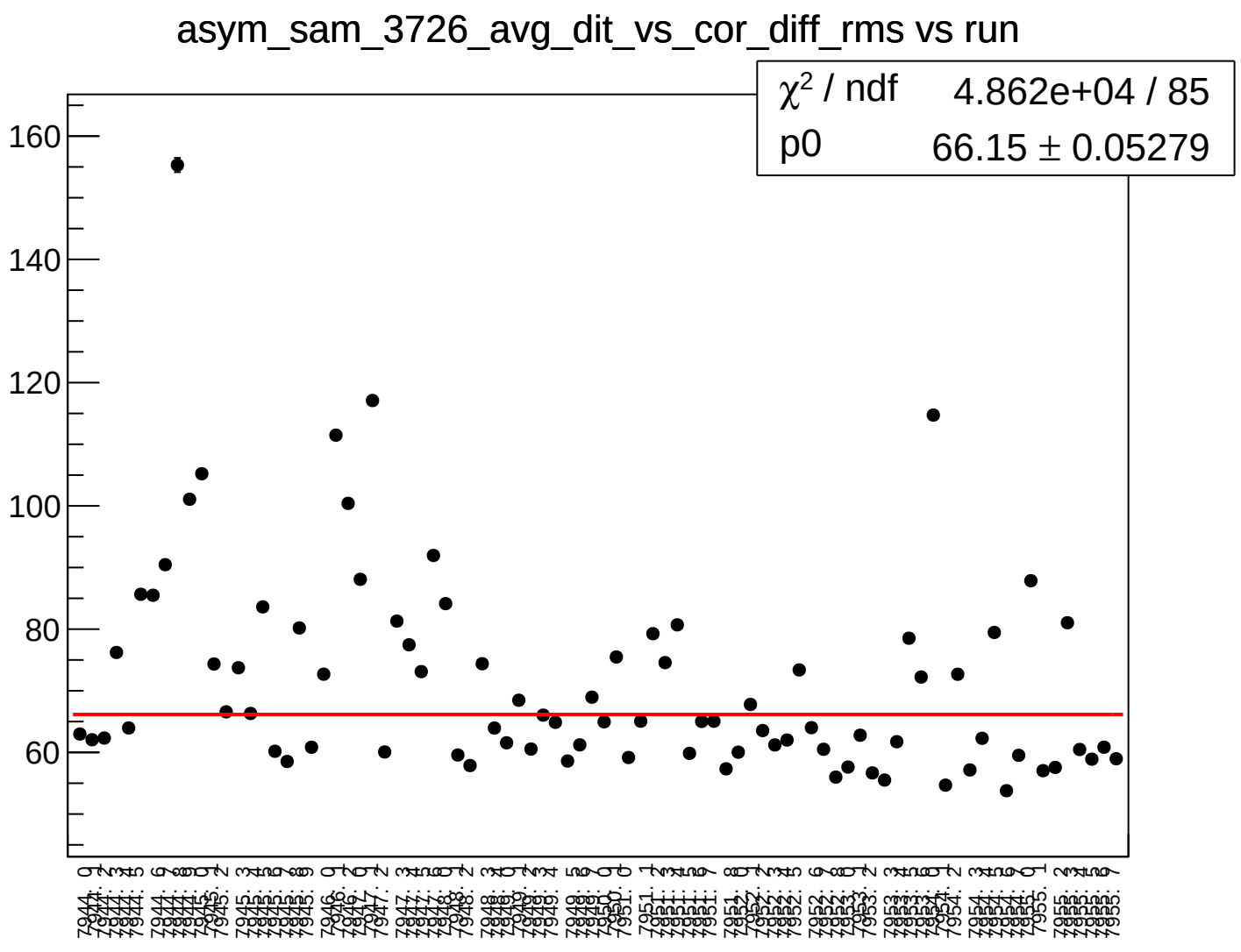

pull1D
Entries 86
Mean −0.005957
Std Dev 1.015

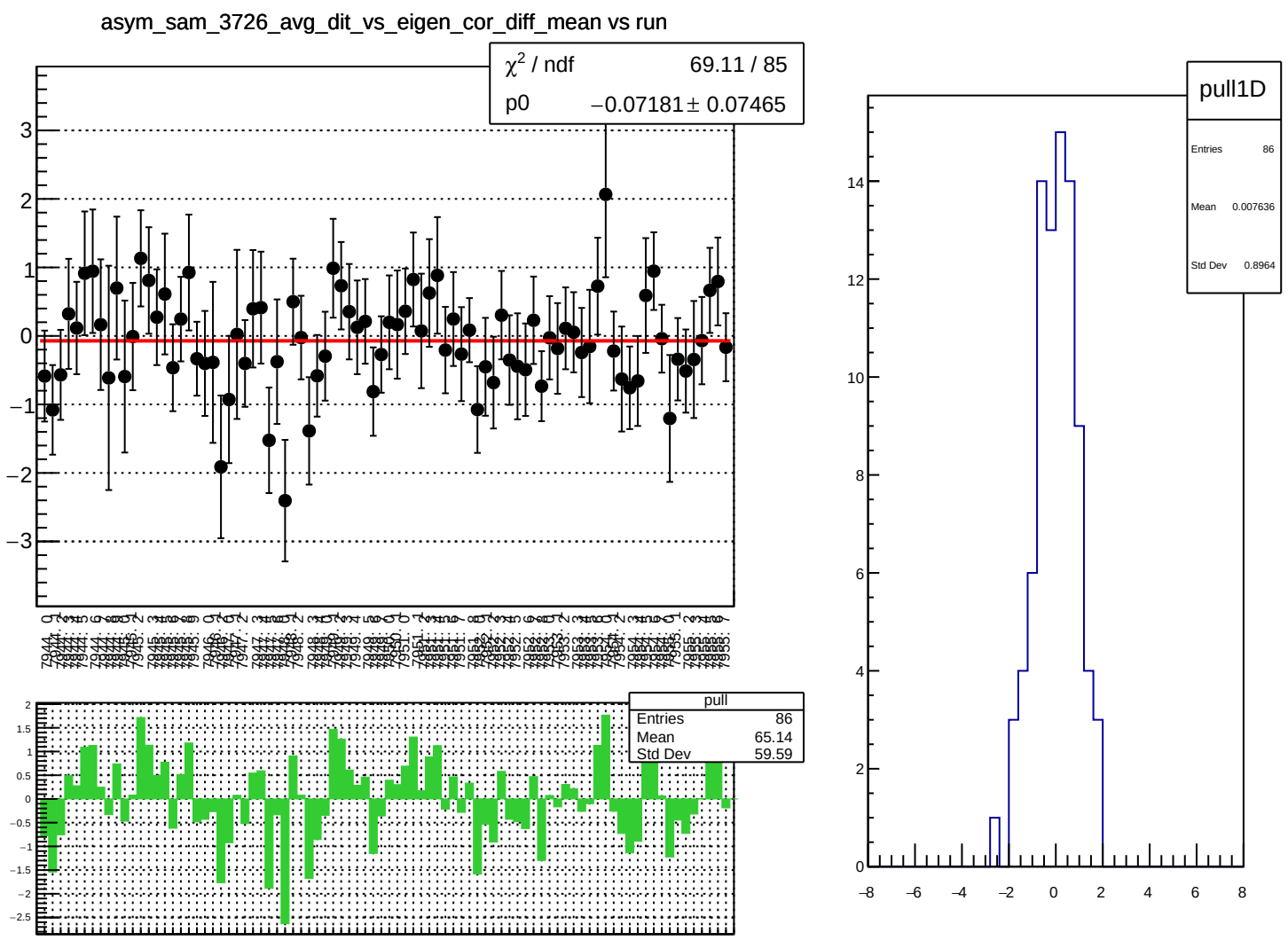

asym_sam_3726_avg_rms vs run
χ² / ndf 2691 / 85
p0 2006 ± 1.578
2300
2200
2100
2000
1900
1800

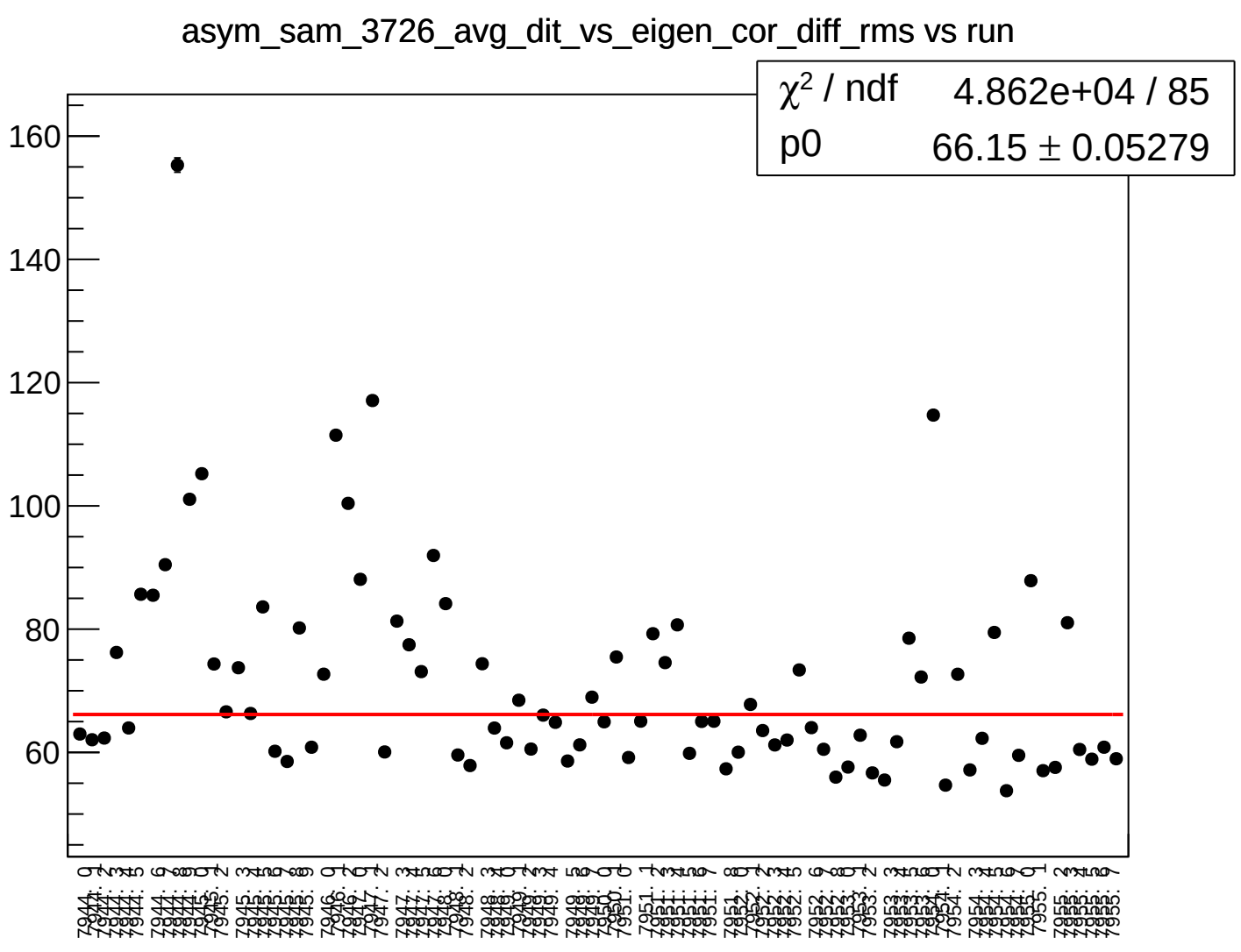

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.72 / 85
p0 −5.67e−13 ± 3.467e−13
pull
Entries 86
Mean 128.8
Std Dev 0
pull1D
Entries 86
Mean −0.0642
Std Dev 1.019

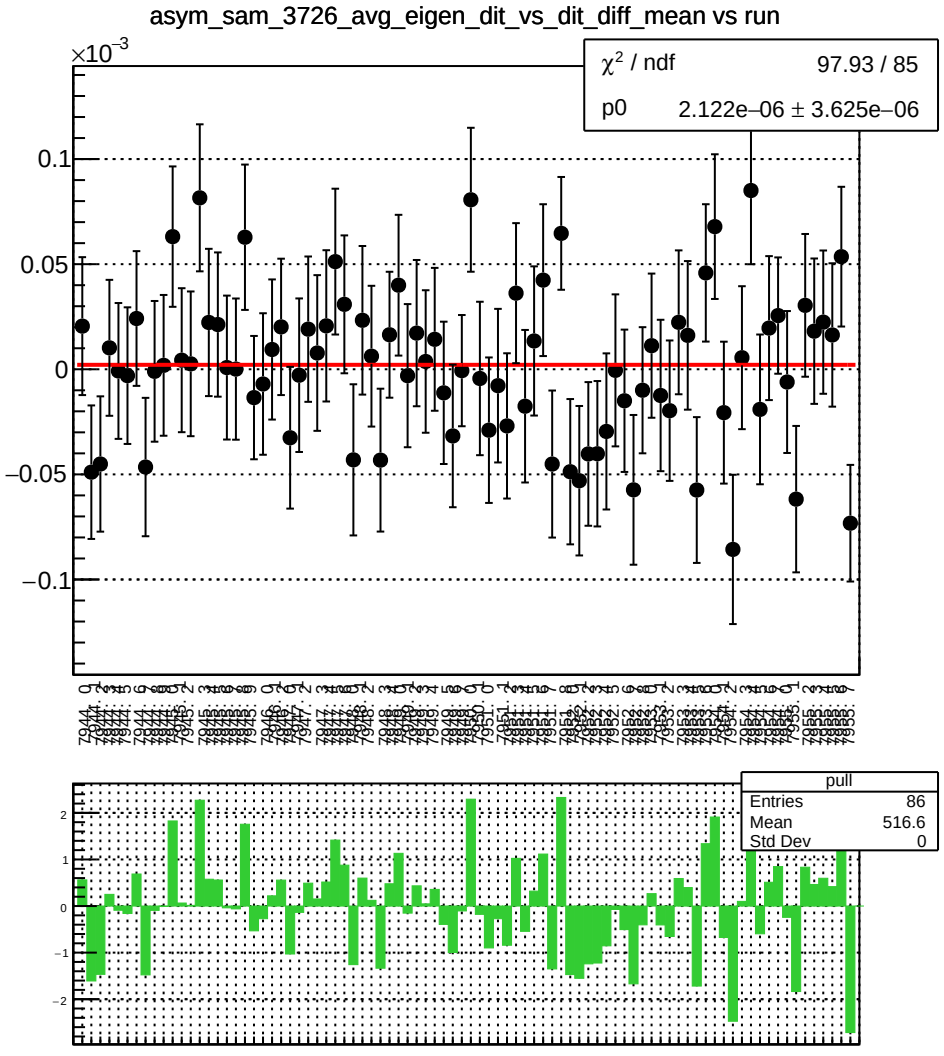

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.872e+05 / 85
p0 1.949e−10 ± 2.451e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

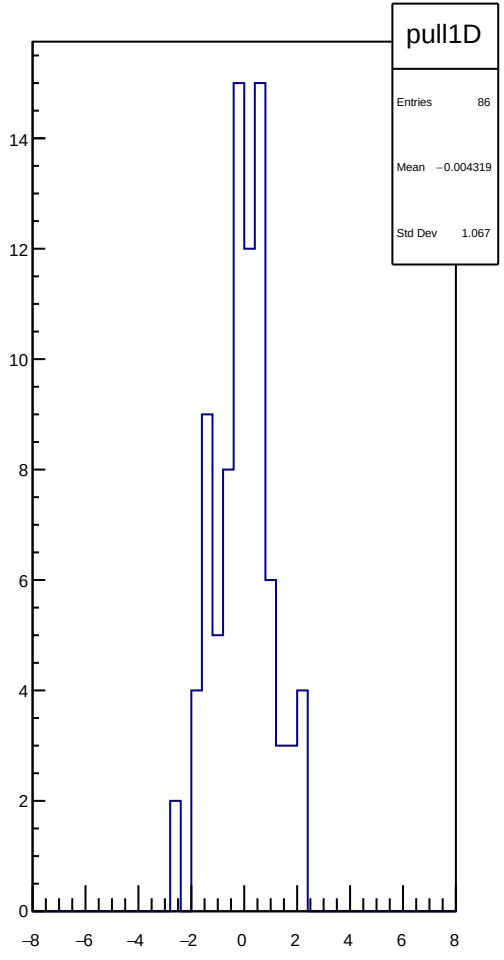

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.11 / 85
p0 −0.07181 ± 0.07465
pull
Entries 86
Mean 65.14
Std Dev 59.59
pull1D
Entries 86
Mean 0.007636
Std Dev 0.8964

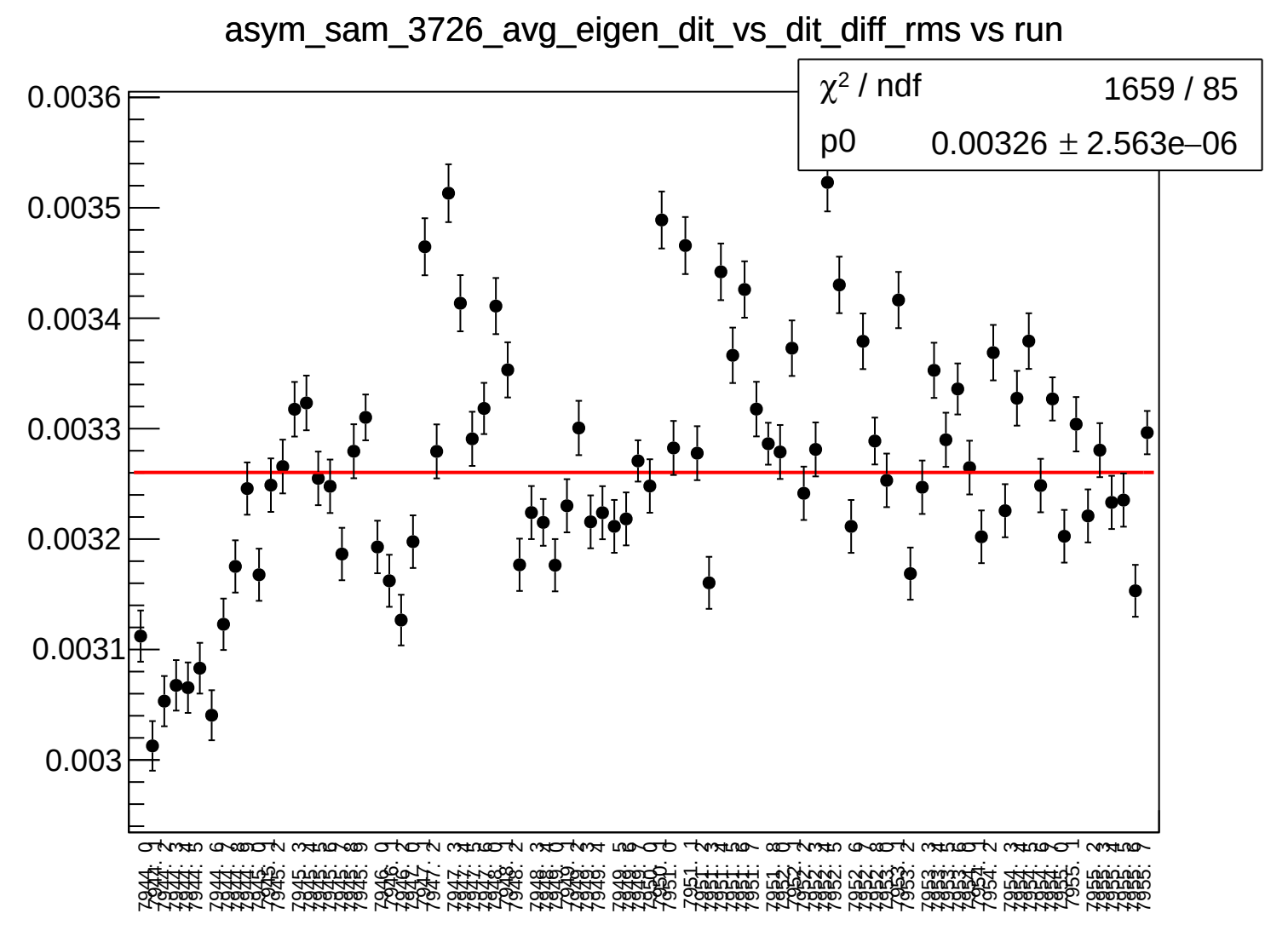

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.862e+04 / 85
p0 66.15 ± 0.05279
160
140
120
100
80
60

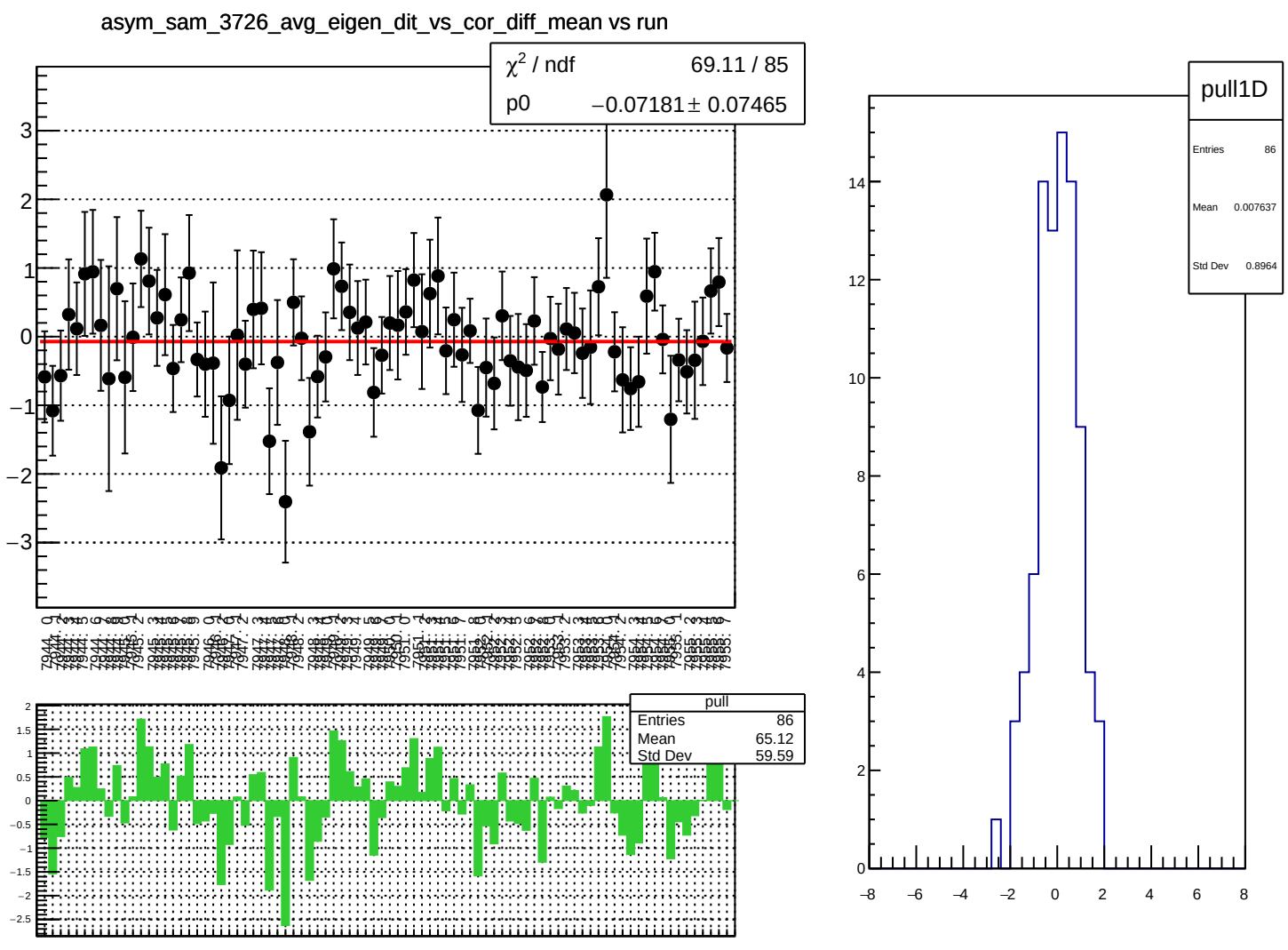

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.11 / 85
p0 −0.07181 ± 0.07465
pull
Entries 86
Mean 65.14
Std Dev 59.59
pull1D
Entries 86
Mean 0.007636
Std Dev 0.8964

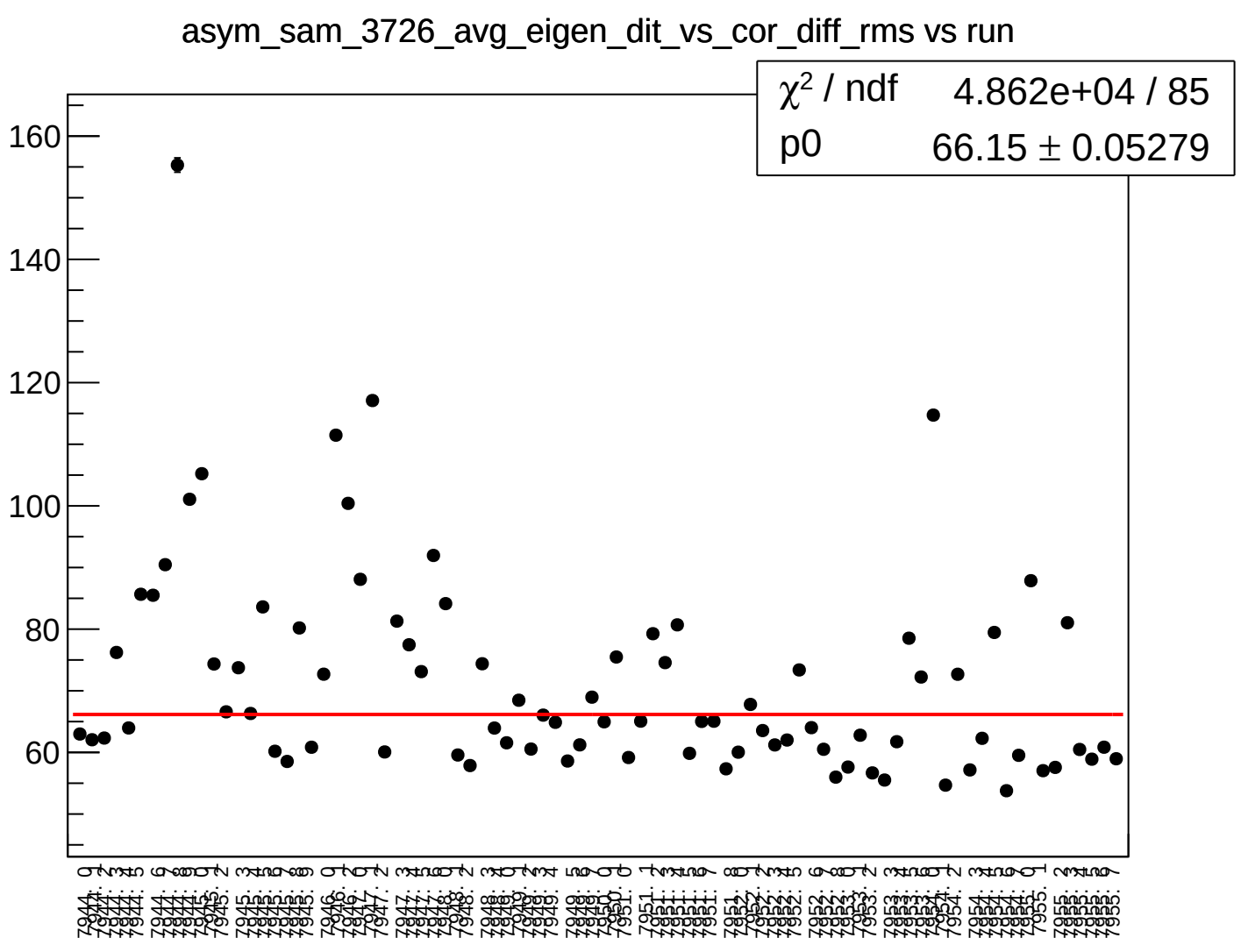

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.862e+04 / 85
p0 66.15 ± 0.05279
160
140
120
100
80
60

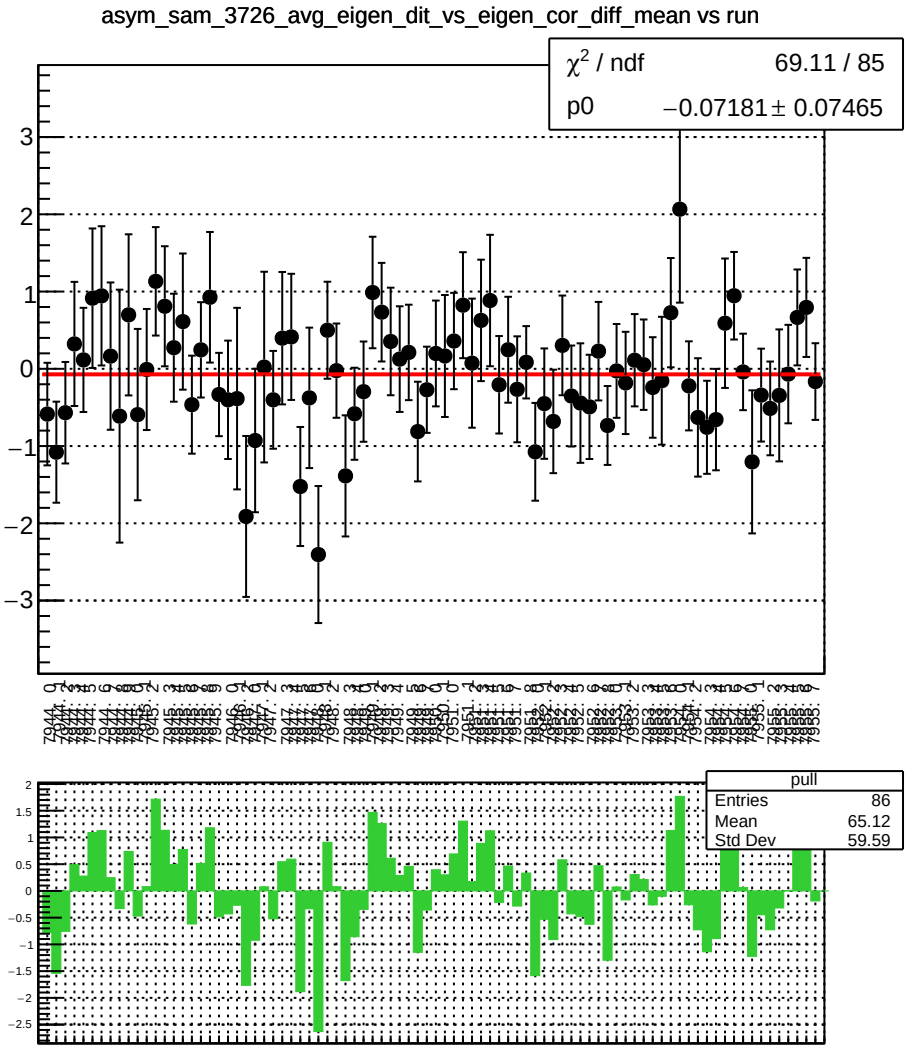

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.93 / 85
p0 2.122e−06 ± 3.625e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 516.6
Std Dev 0
2
1
0
−1
−2

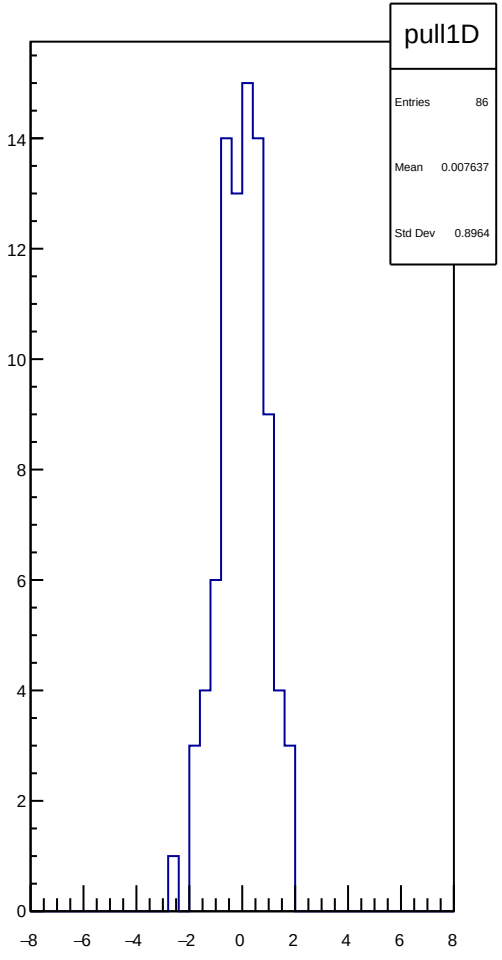

pull1D
Entries 86
Mean −0.004319
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

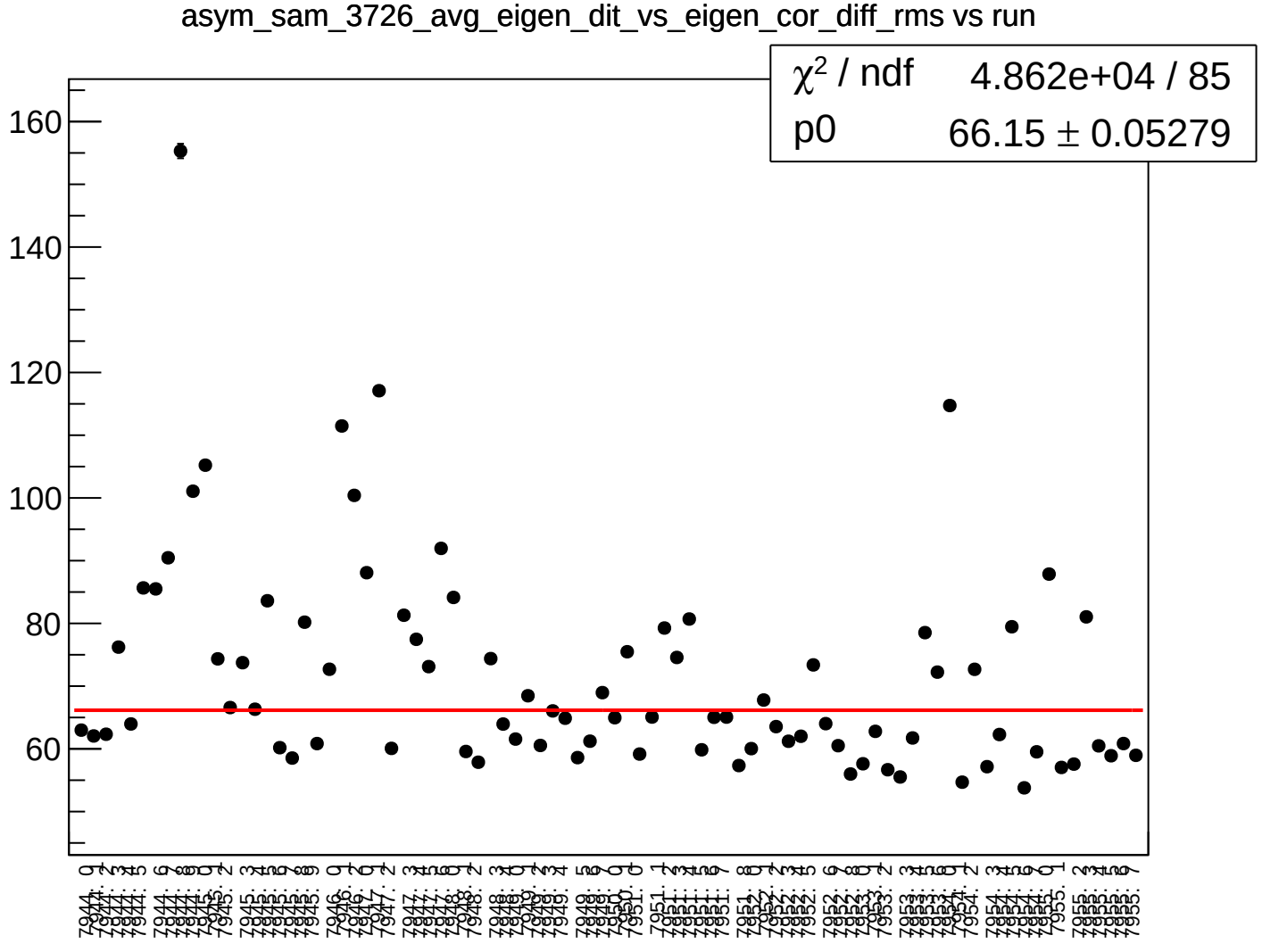

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1659 / 85
p0 0.00326 ± 2.563e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

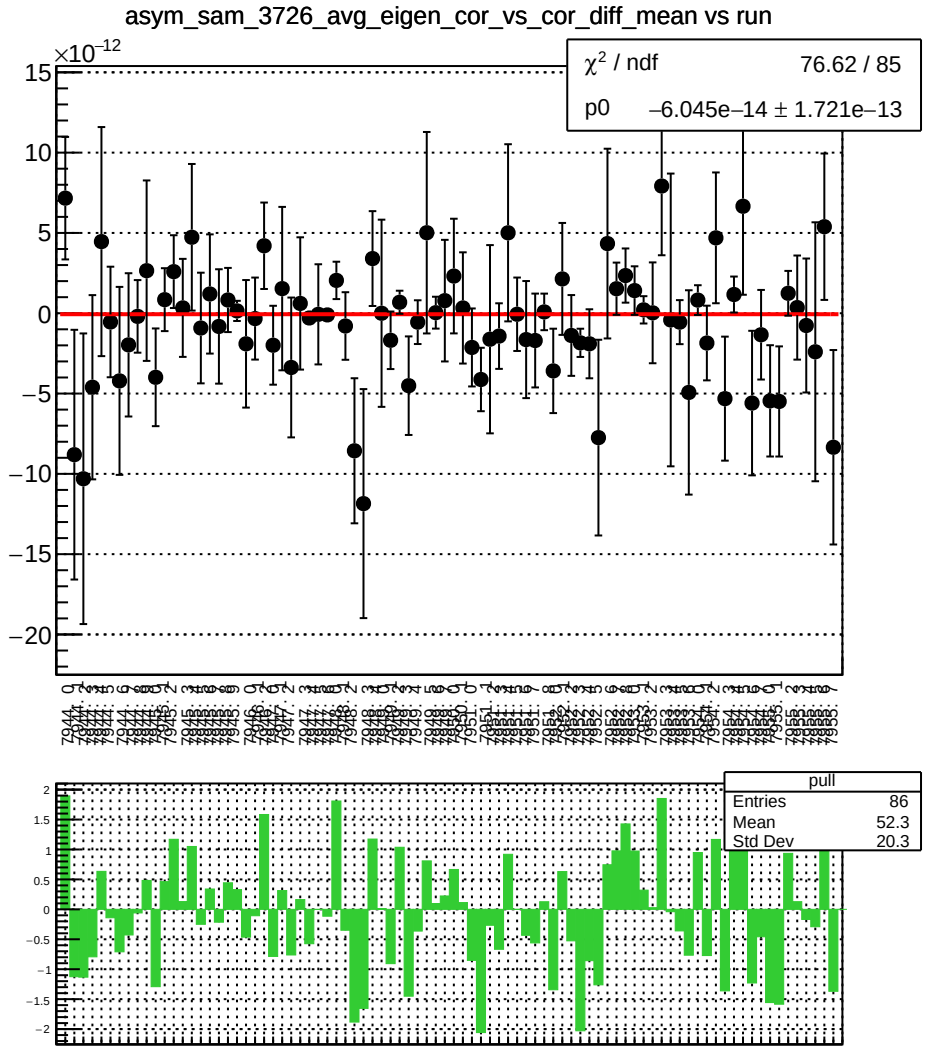

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.11 / 85
p0 −0.07181 ± 0.07465
pull
Entries 86
Mean 65.12
Std Dev 59.59
pull1D
Entries 86
Mean 0.007637
Std Dev 0.8964

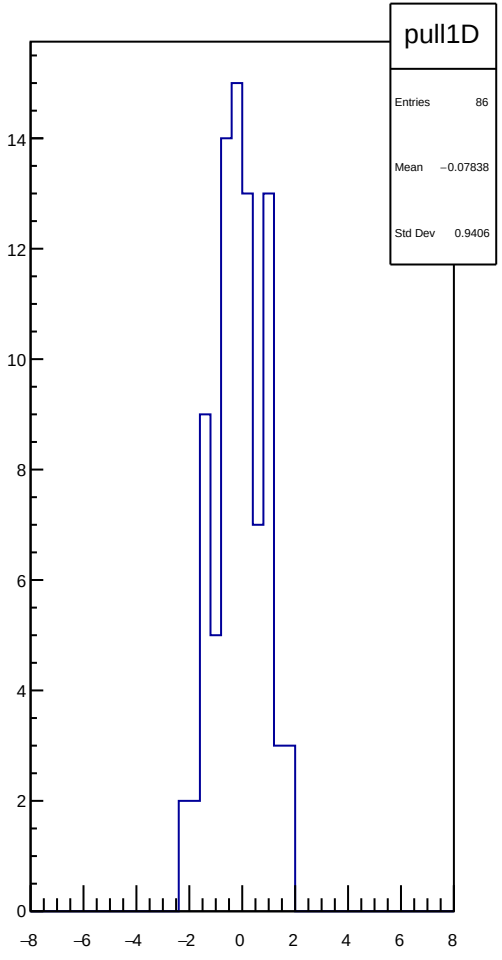

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.862e+04 / 85
p0 66.15 ± 0.05279
160
140
120
100
80
60

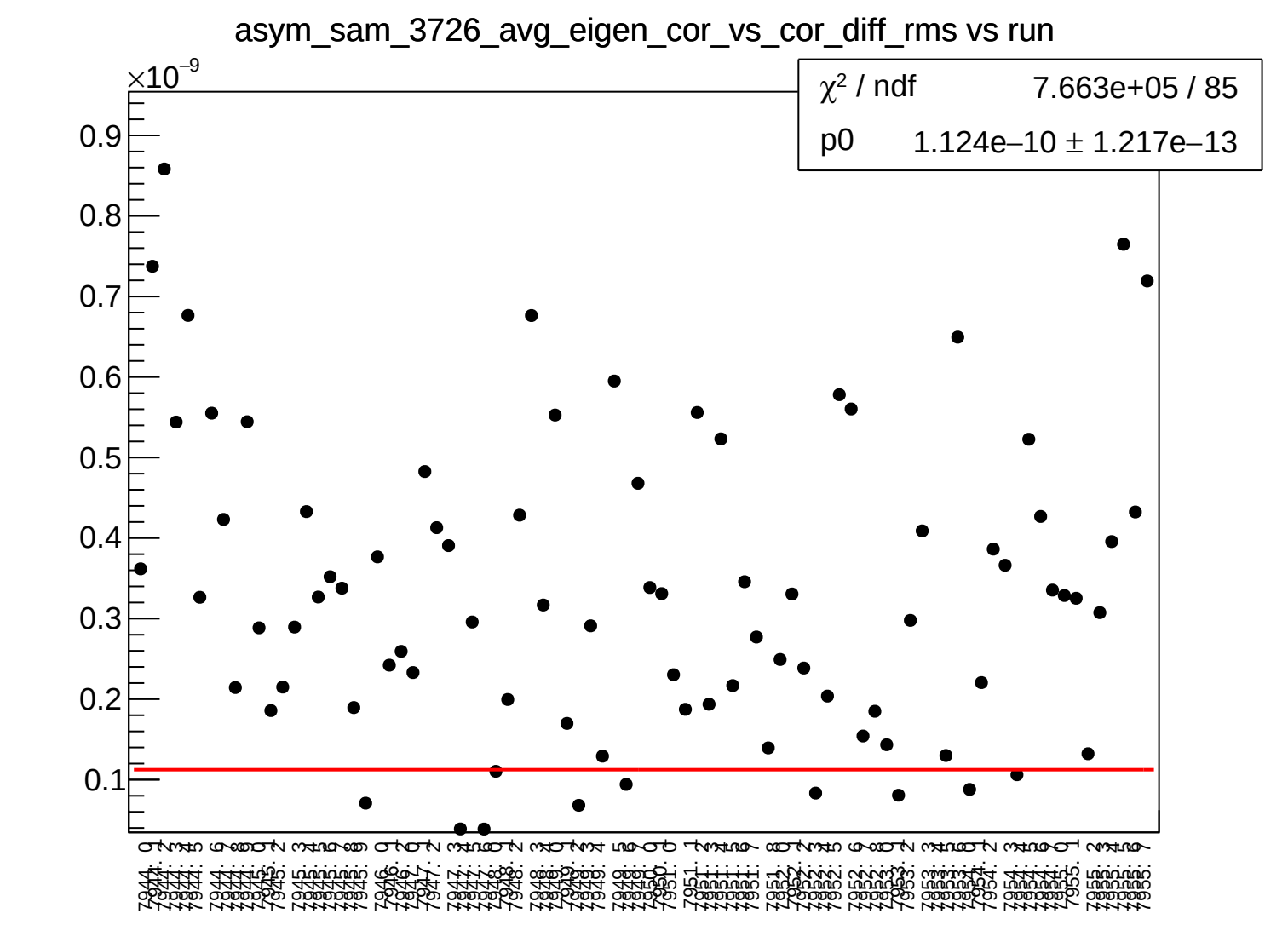

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.11 / 85
p0 −0.07181 ± 0.07465
pull
Entries 86
Mean 65.12
Std Dev 59.59

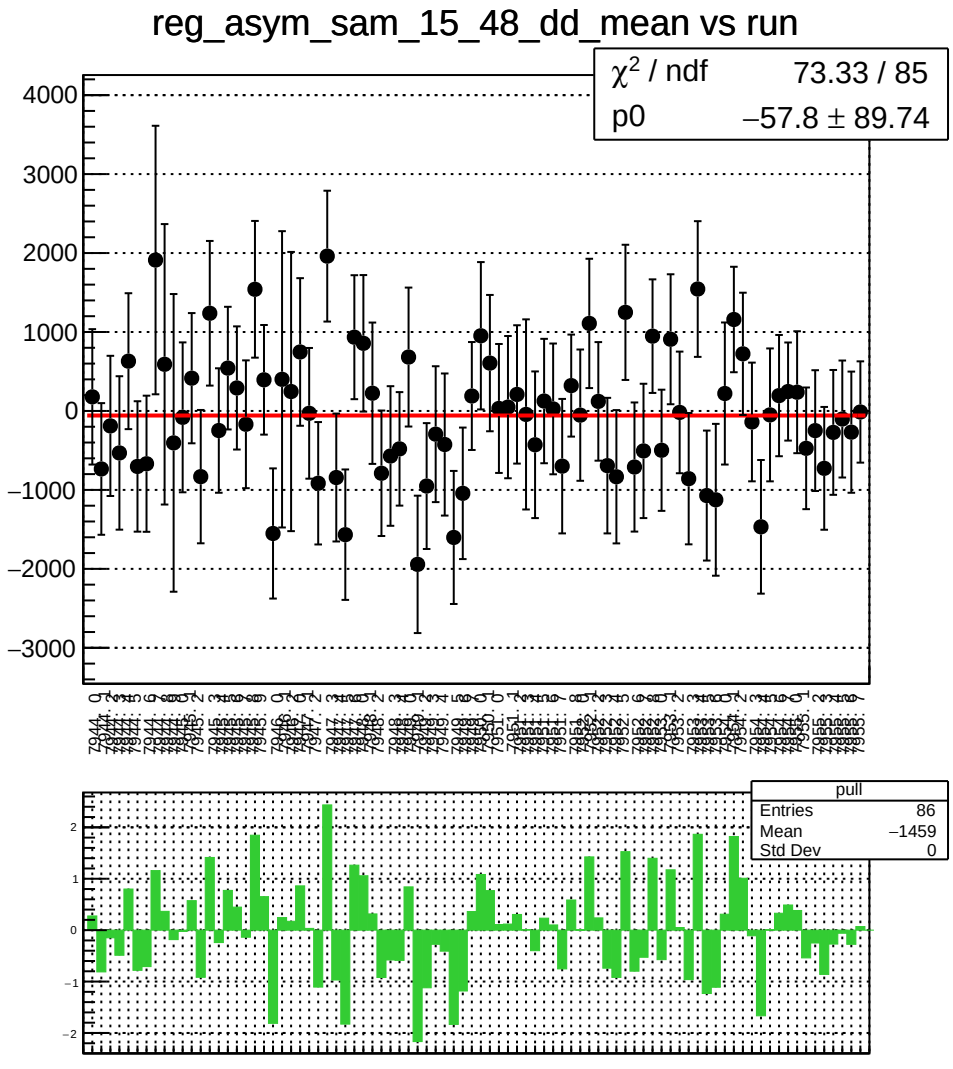

pull1D
Entries 86
Mean 0.007637
Std Dev 0.8964

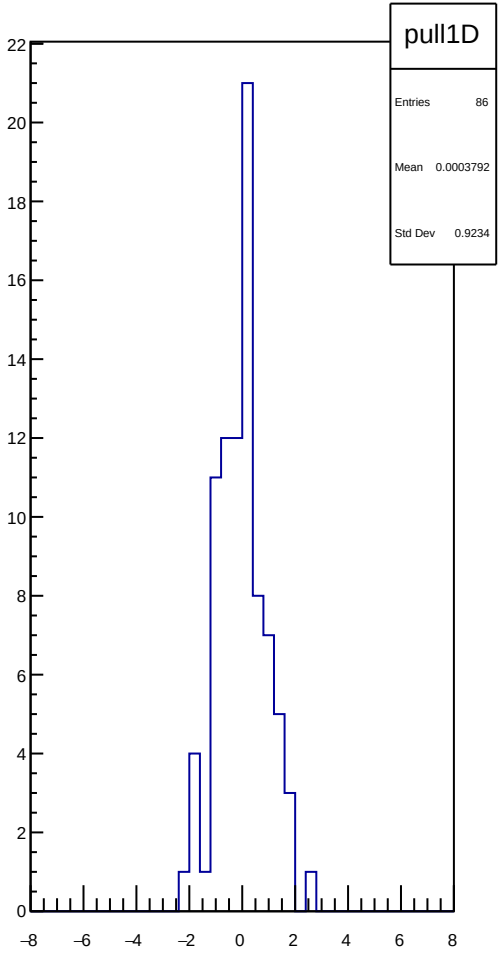

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.862e+04 / 85
p0 66.15 ± 0.05279
160
140
120
100
80
60

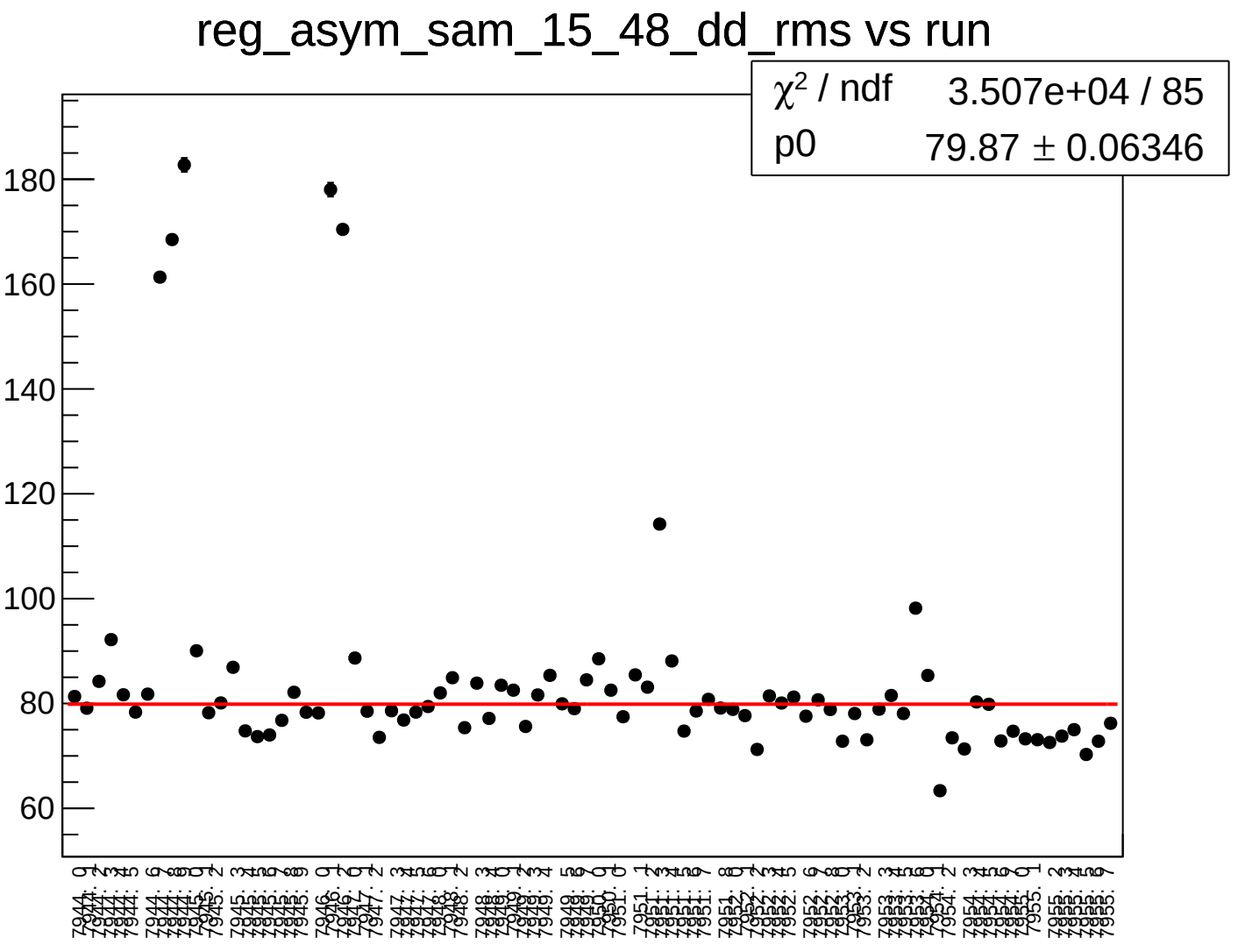

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.62 / 85
p0 −6.045e−14 ± 1.721e−13
pull
Entries 86
Mean 52.3
Std Dev 20.3

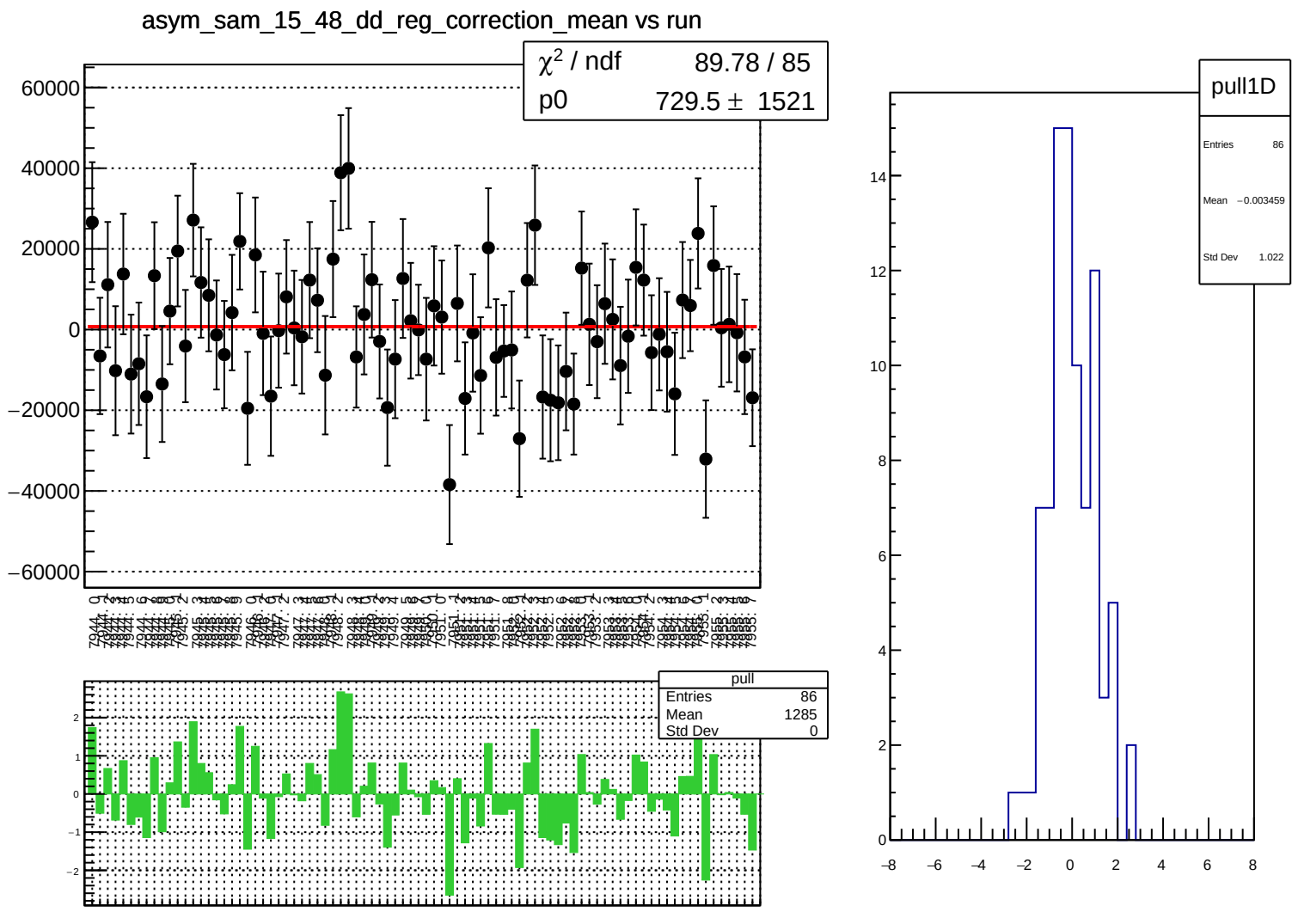

pull1D
Entries 86
Mean −0.07838
Std Dev 0.9406

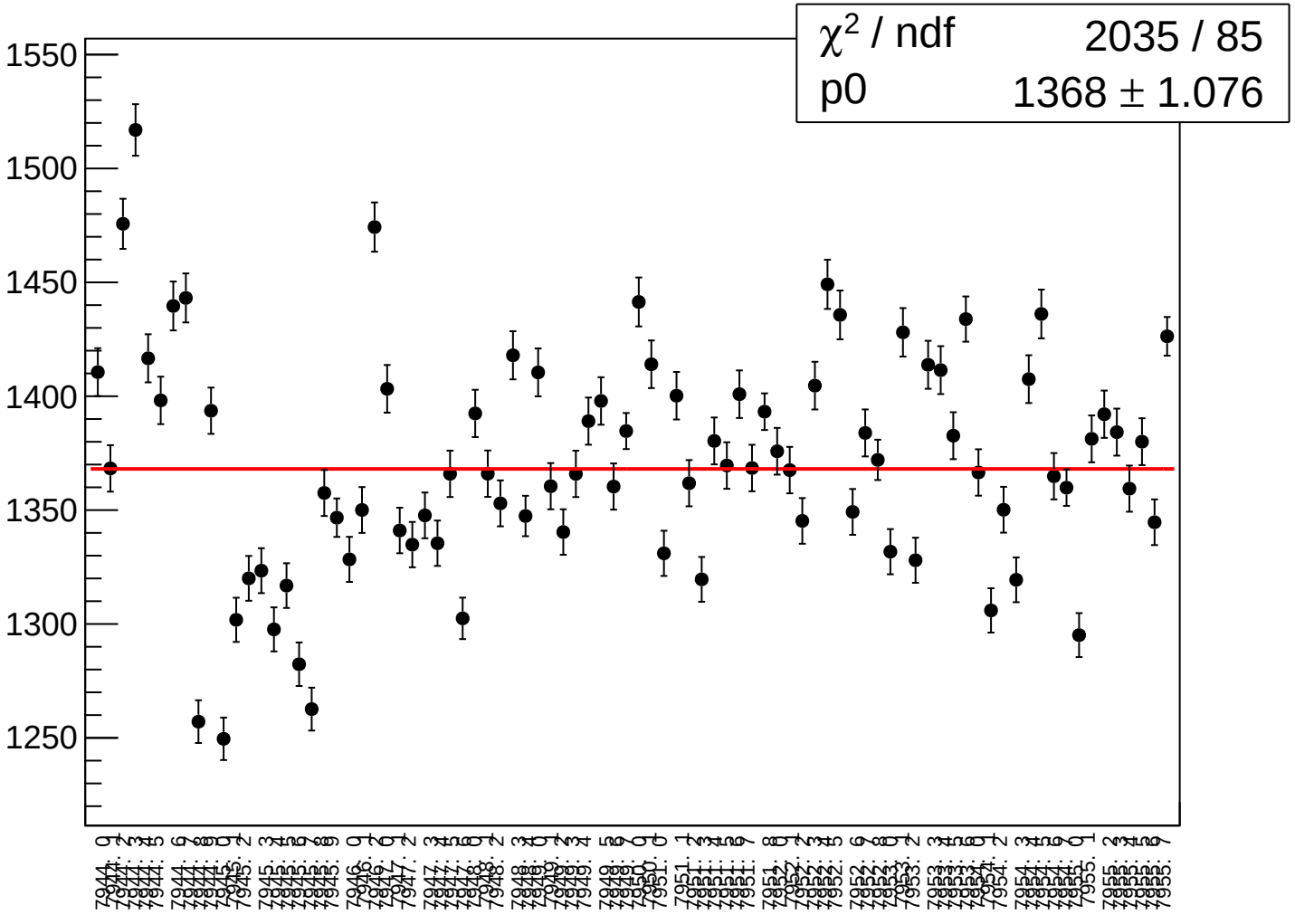

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.663e+05 / 85
p0 1.124e−10 ± 1.217e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

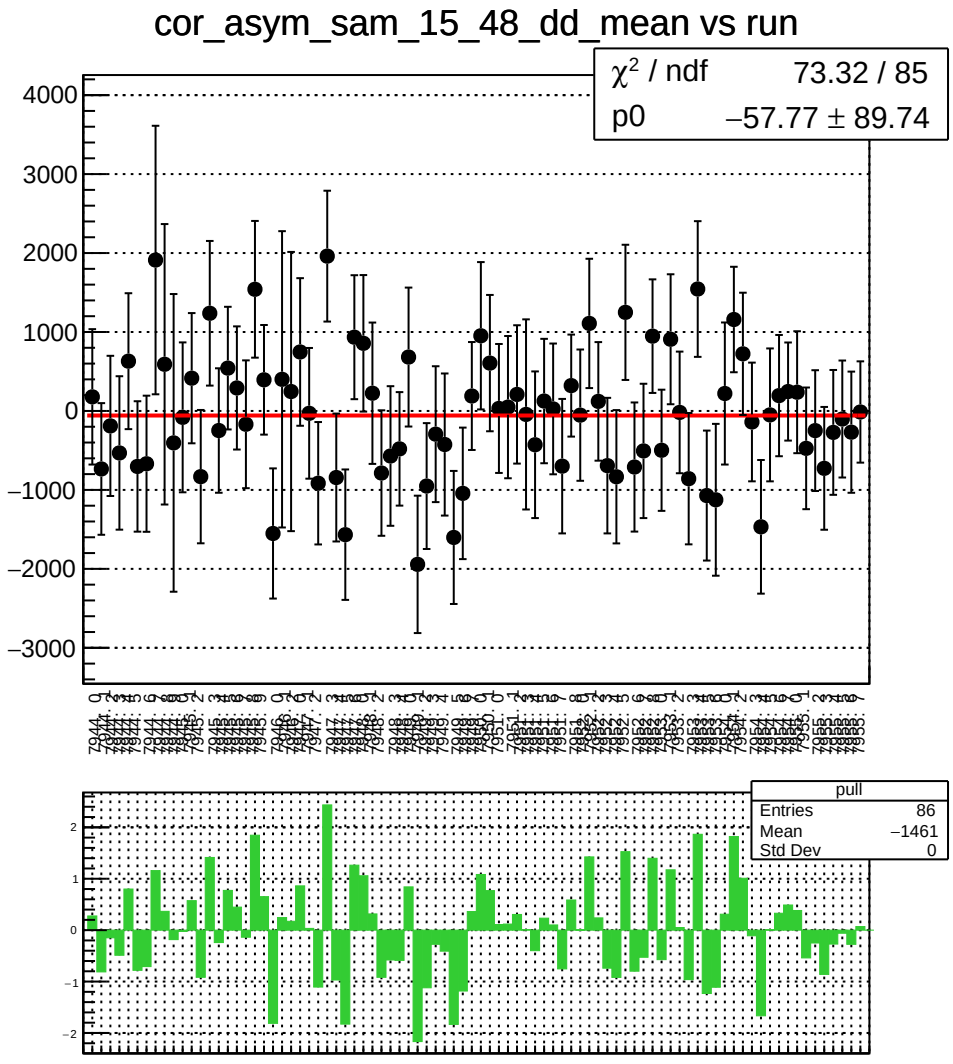

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 73.33 / 85
p0 −57.8 ± 89.74
pull
Entries 86
Mean −1459
Std Dev 0

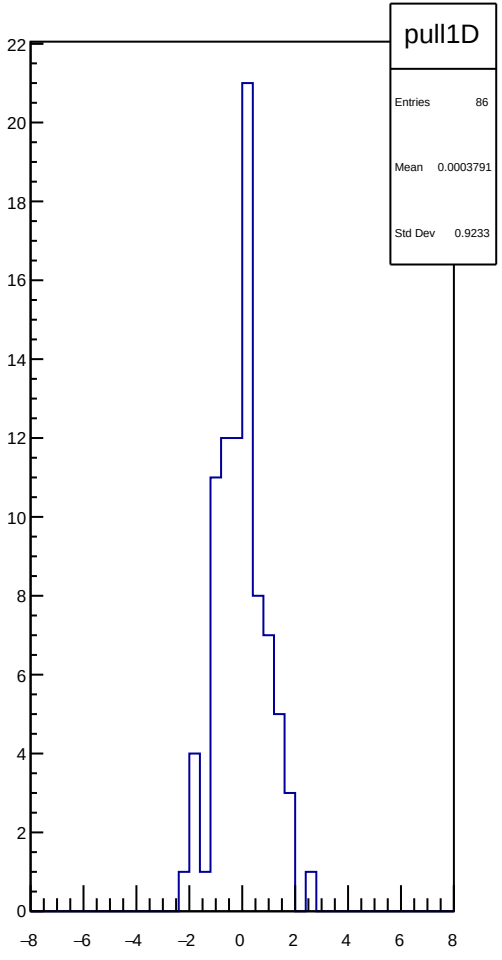

pull1D
Entries 86
Mean 0.0003792
Std Dev 0.9234

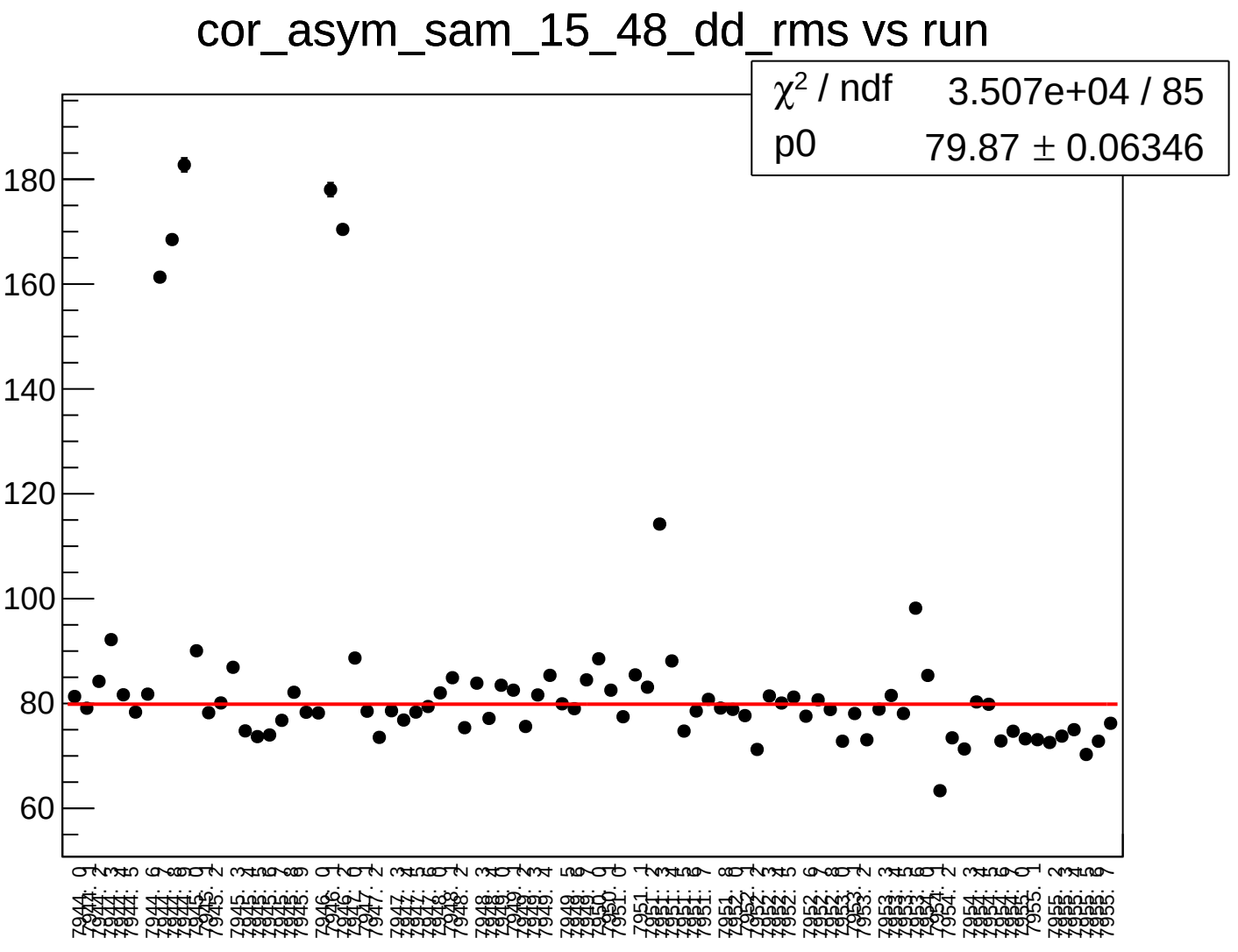

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.507e+04 / 85
p0 79.87 ± 0.06346
180
160
140
120
100
80
60

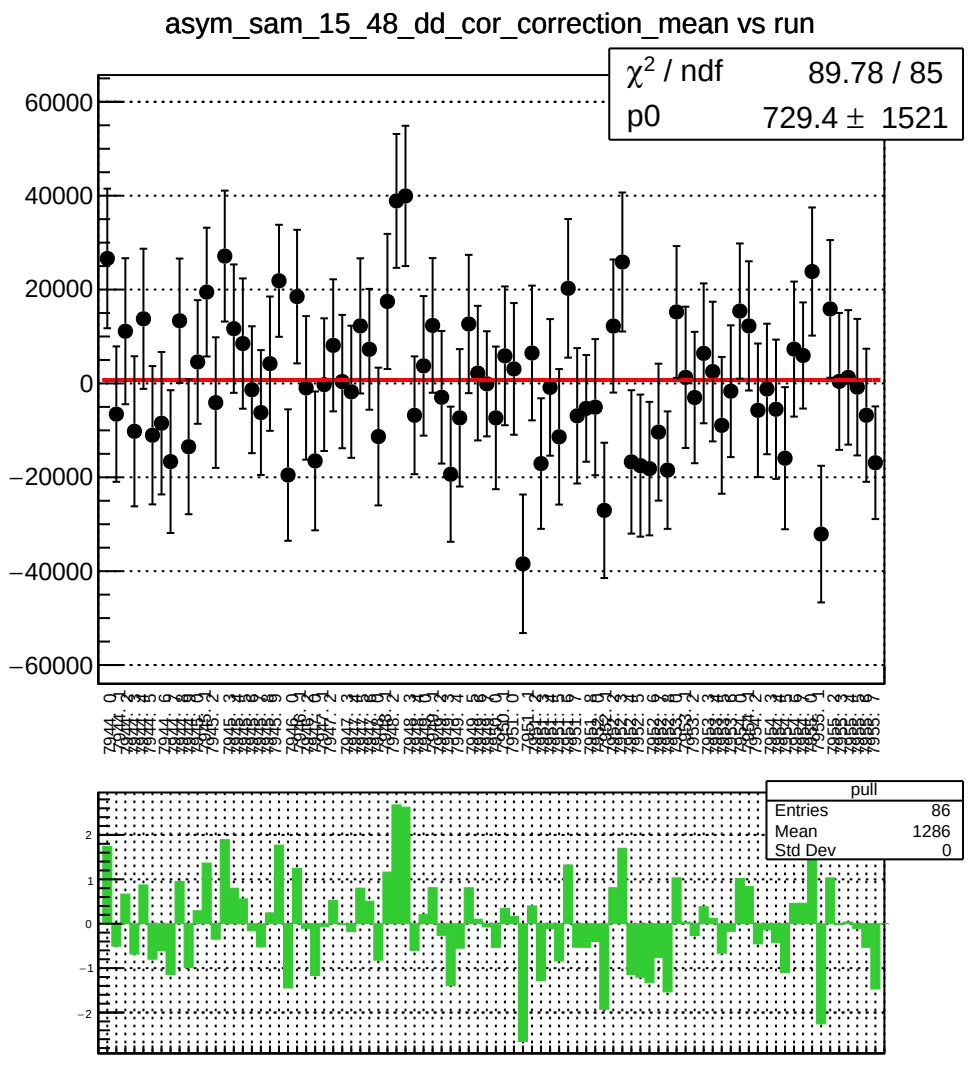

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 89.78 / 85
p0 729.5 ± 1521
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1285
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.003459
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

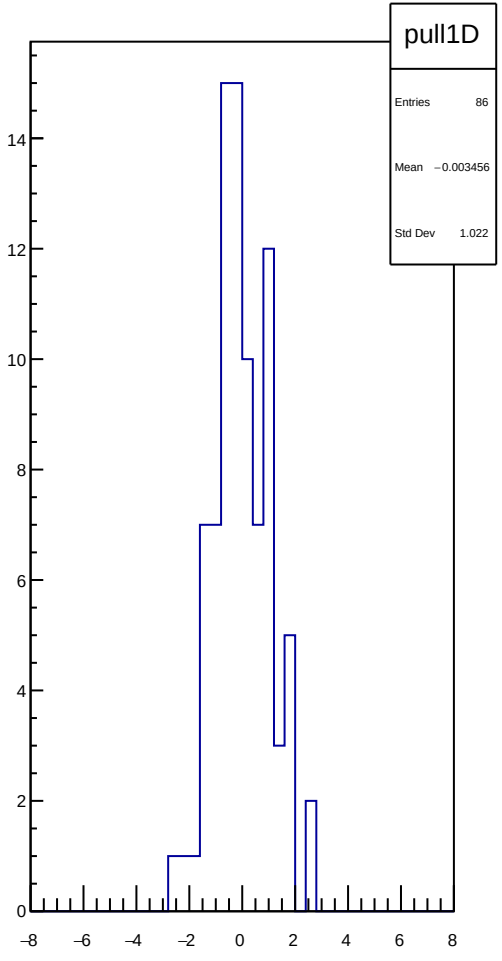

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 2035 / 85
p0 1368 ± 1.076
1550
1500
1450
1400
1350
1300
1250

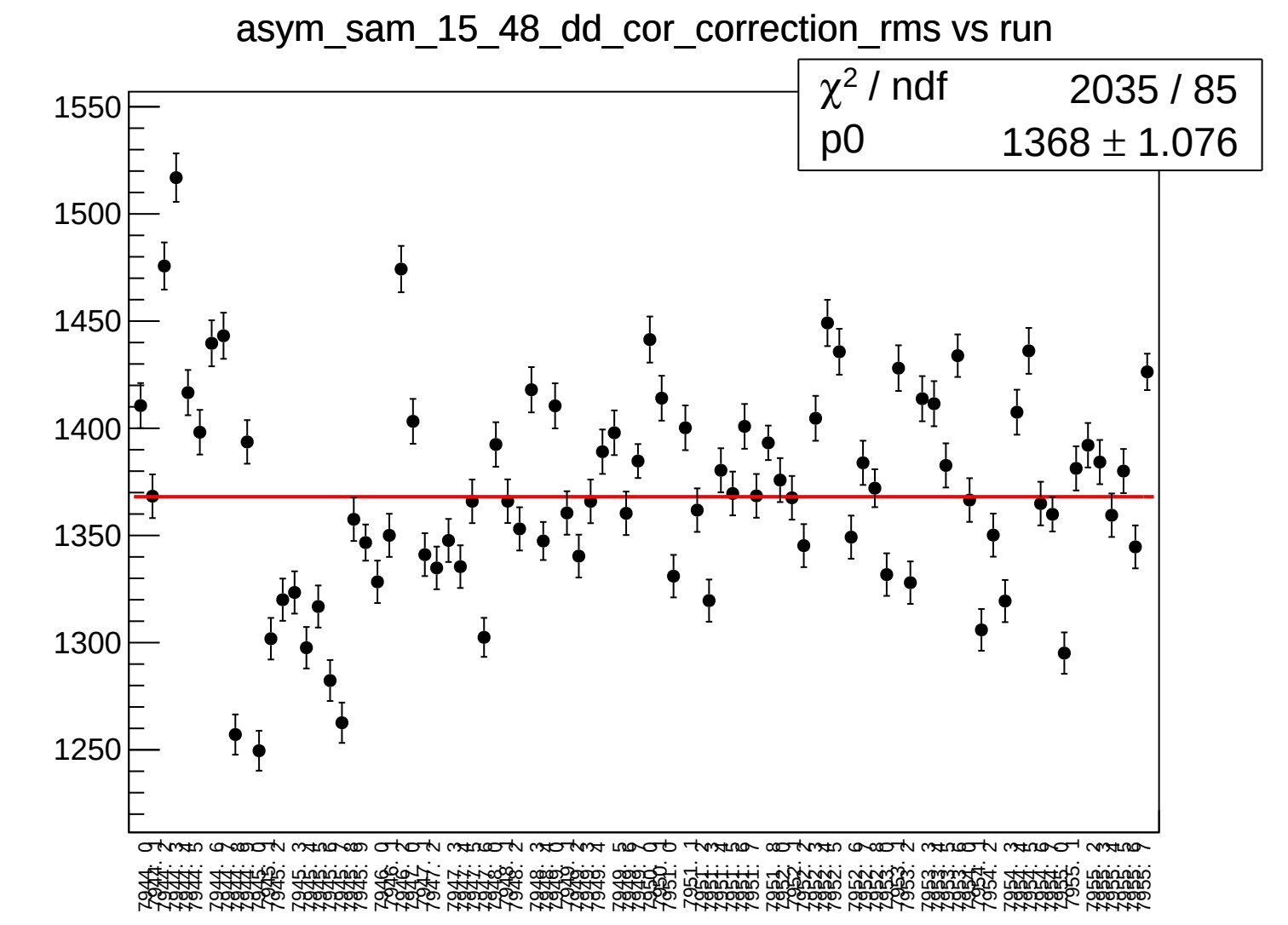

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 73.32 / 85
p0 −57.77 ± 89.74
pull
Entries 86
Mean −1461
Std Dev 0

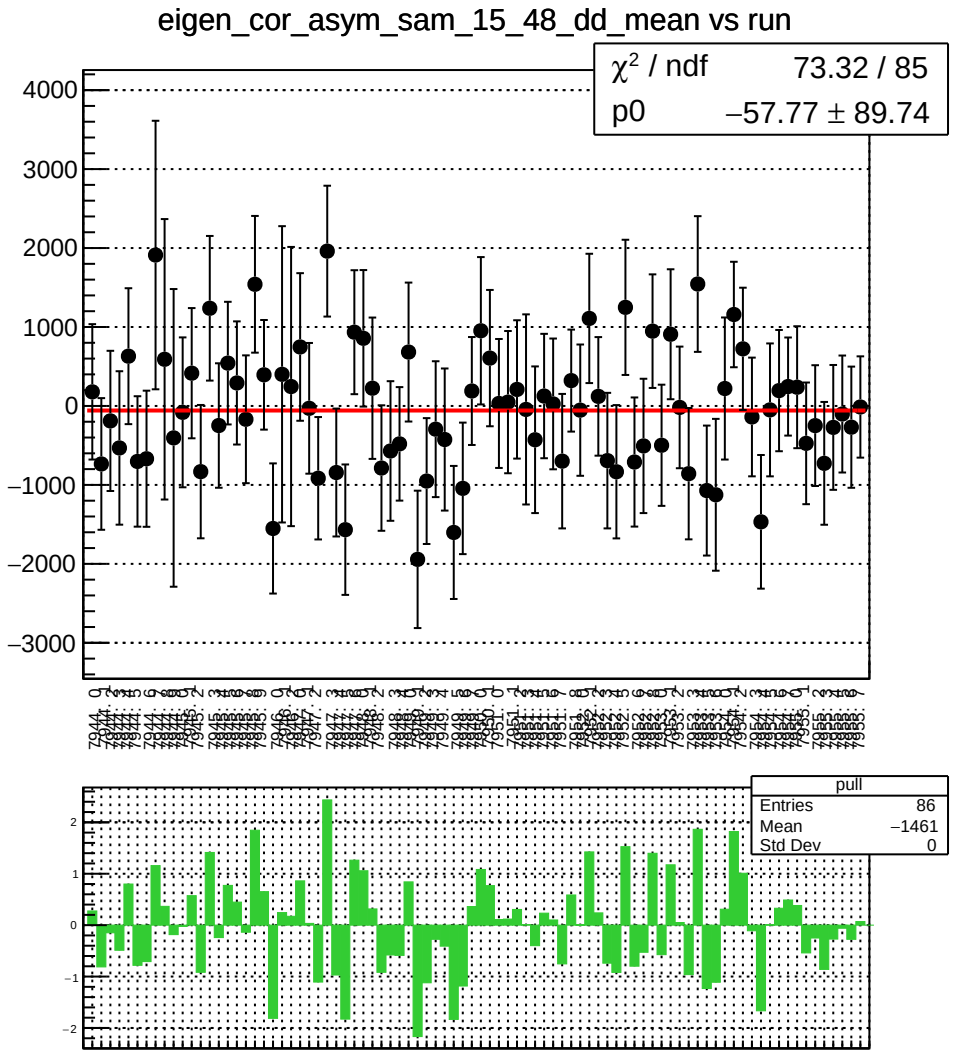

pull1D
Entries 86
Mean 0.0003791
Std Dev 0.9233

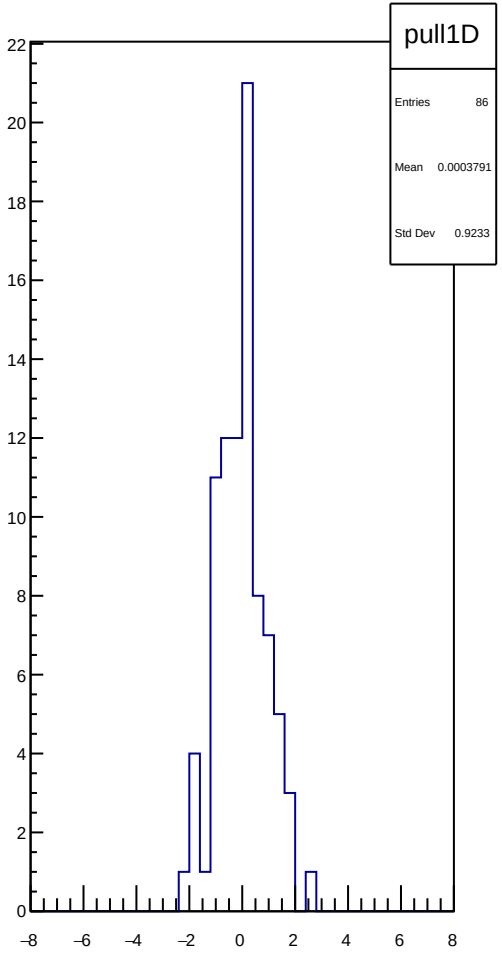

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.507e+04 / 85
p0 79.87 ± 0.06346
180
160
140
120
100
80
60

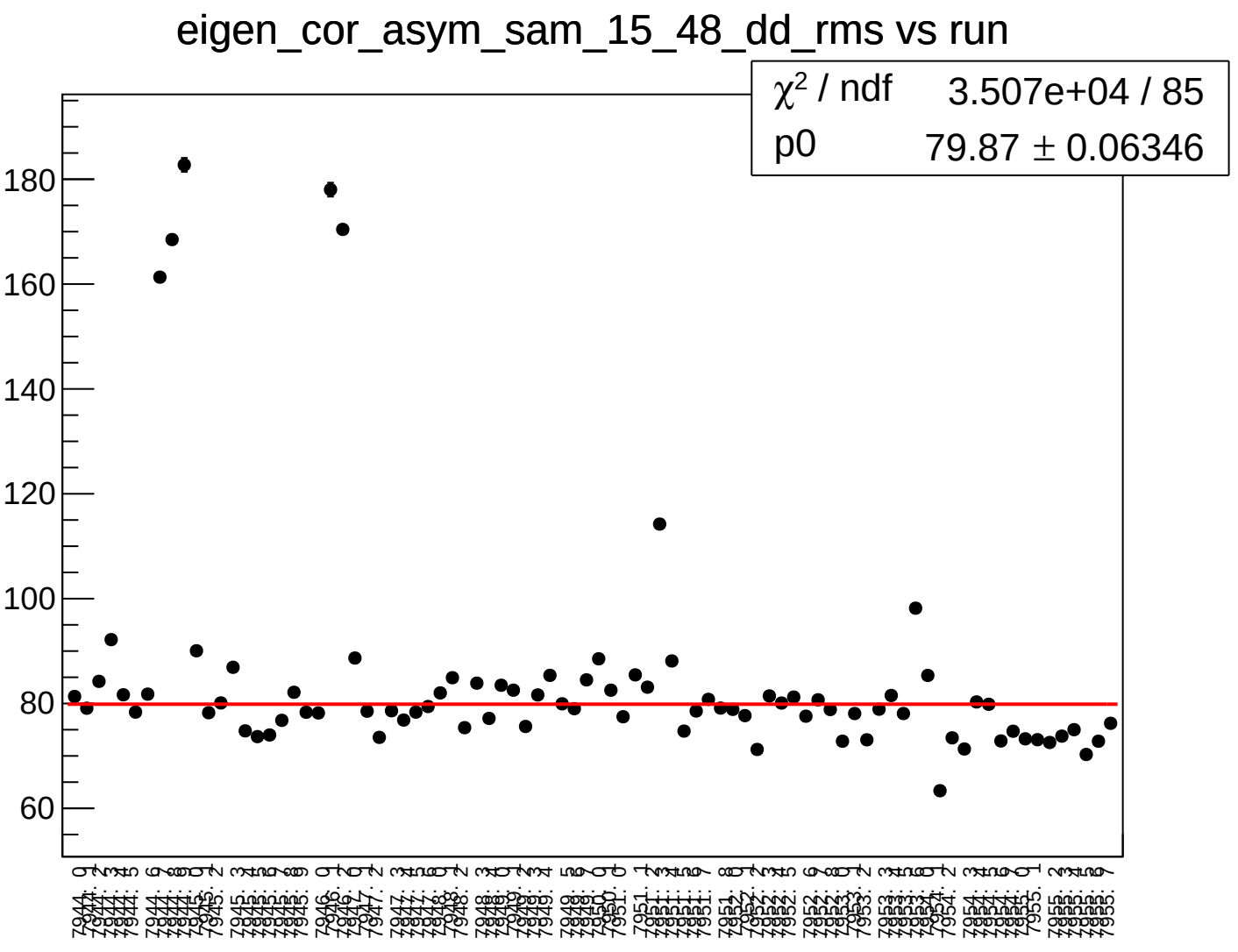

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 89.78 / 85
p0 729.4 ± 1521
pull
Entries 86
Mean 1286
Std Dev 0

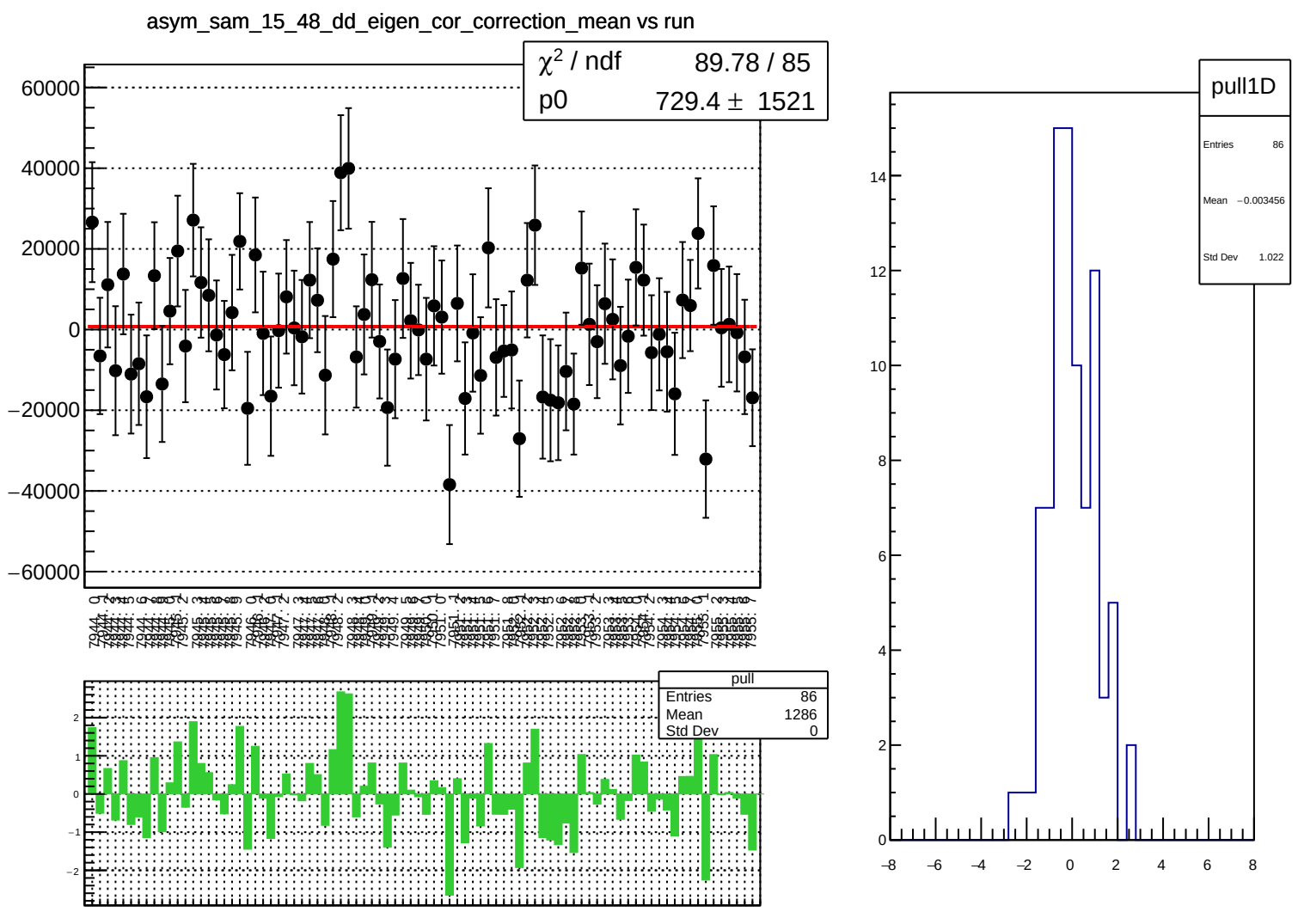

pull1D
Entries 86
Mean −0.003456
Std Dev 1.022

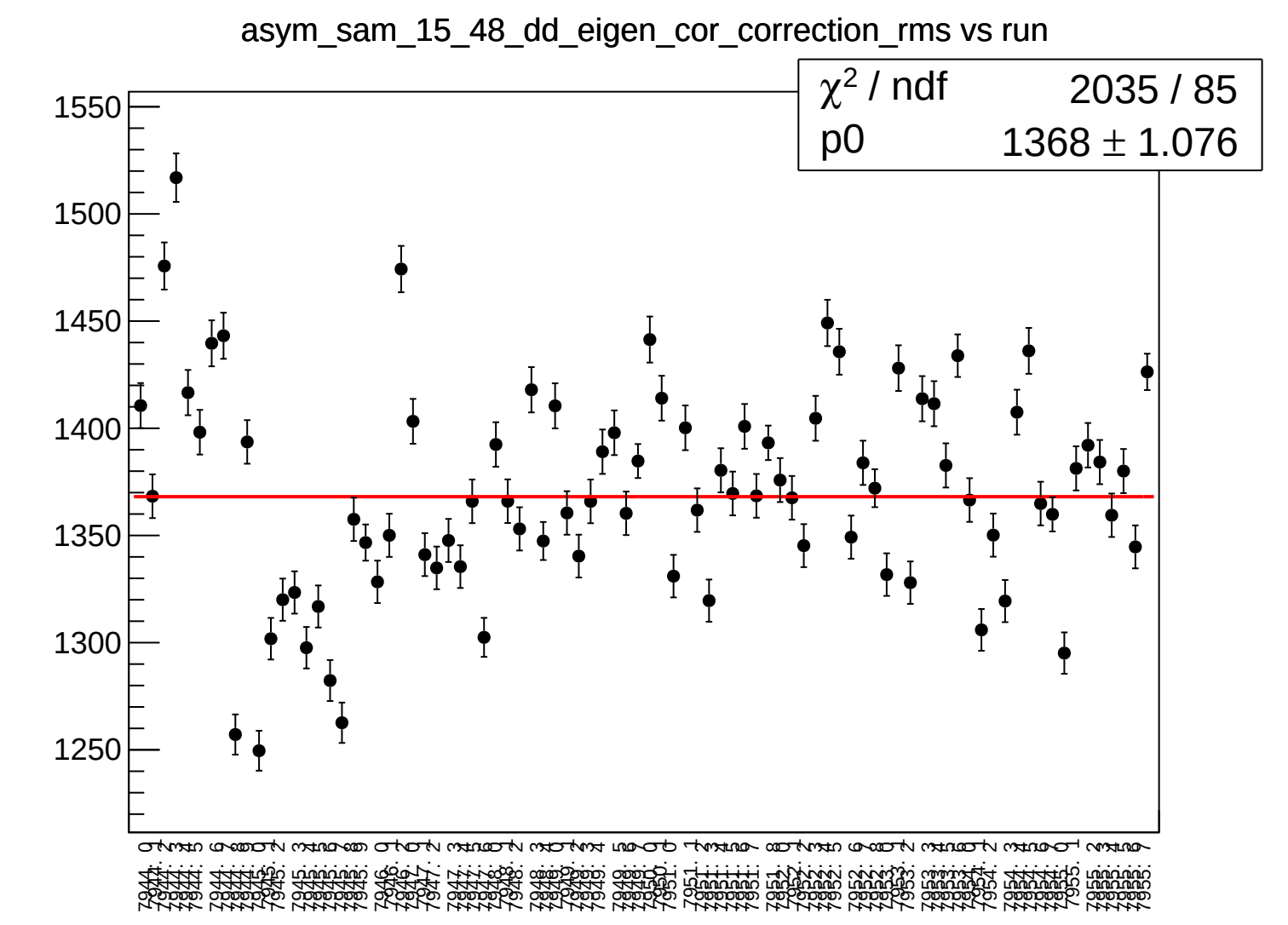

asym_sam_15_48_dd_cor_correction_rms vs run
χ^2 / ndf 2035 / 85
p0 1368 ± 1.076
1550
1500
1450
1400
1350
1300
1250

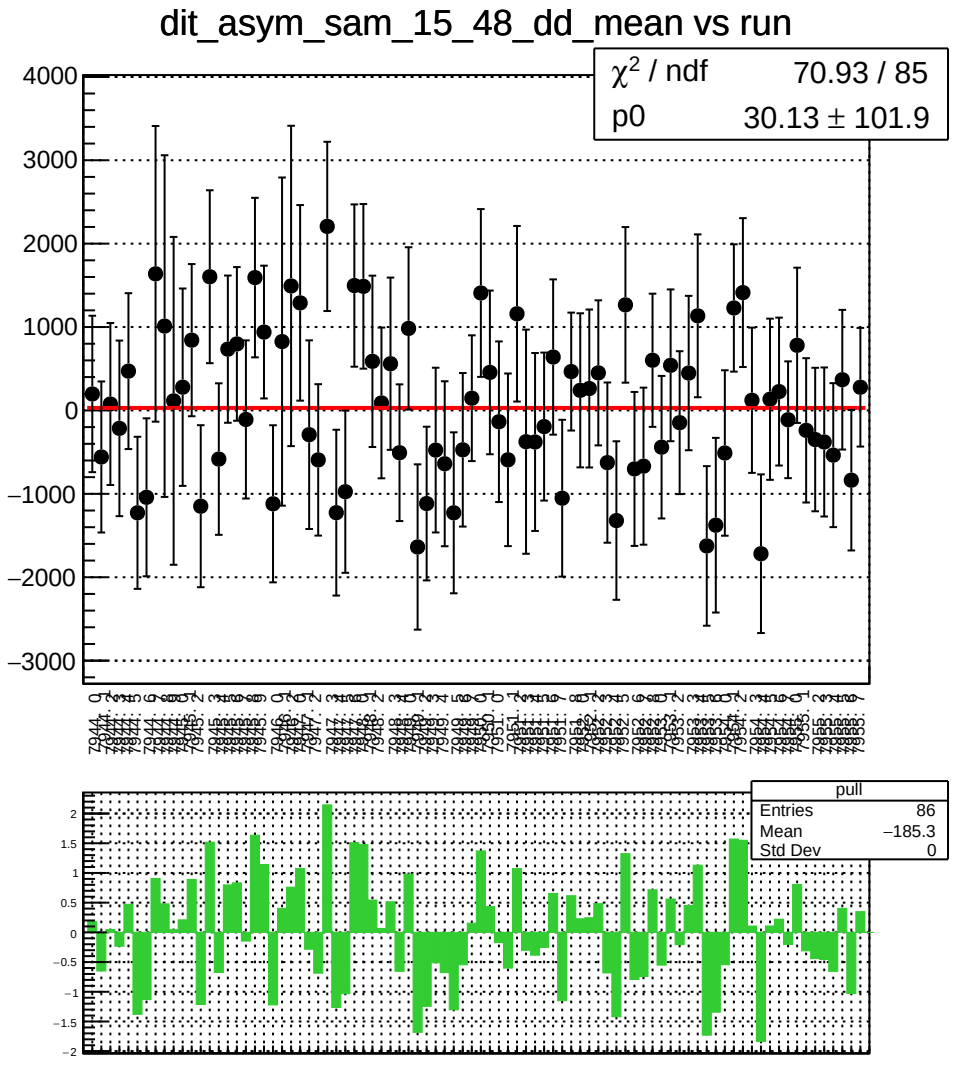

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 73.32 / 85
p0 −57.77 ± 89.74
pull
Entries 86
Mean −1461
Std Dev 0

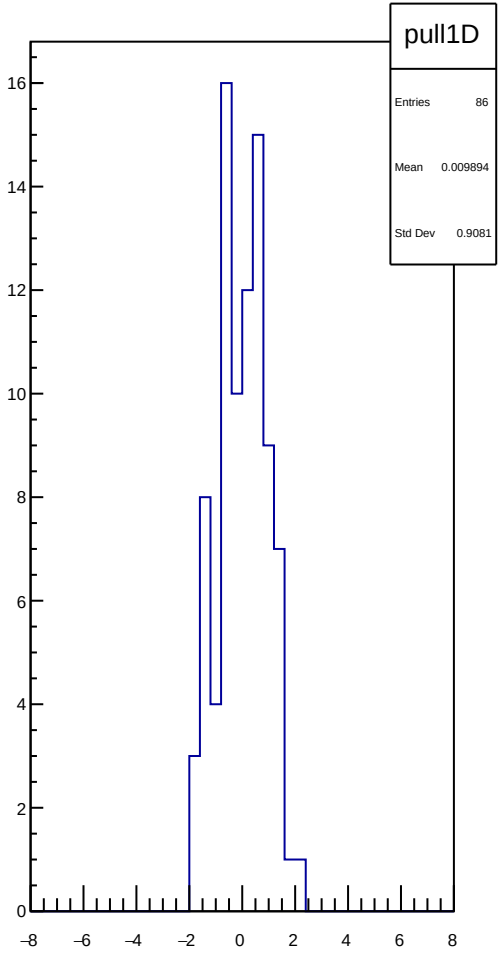

pull1D
Entries 86
Mean 0.0003791
Std Dev 0.9233

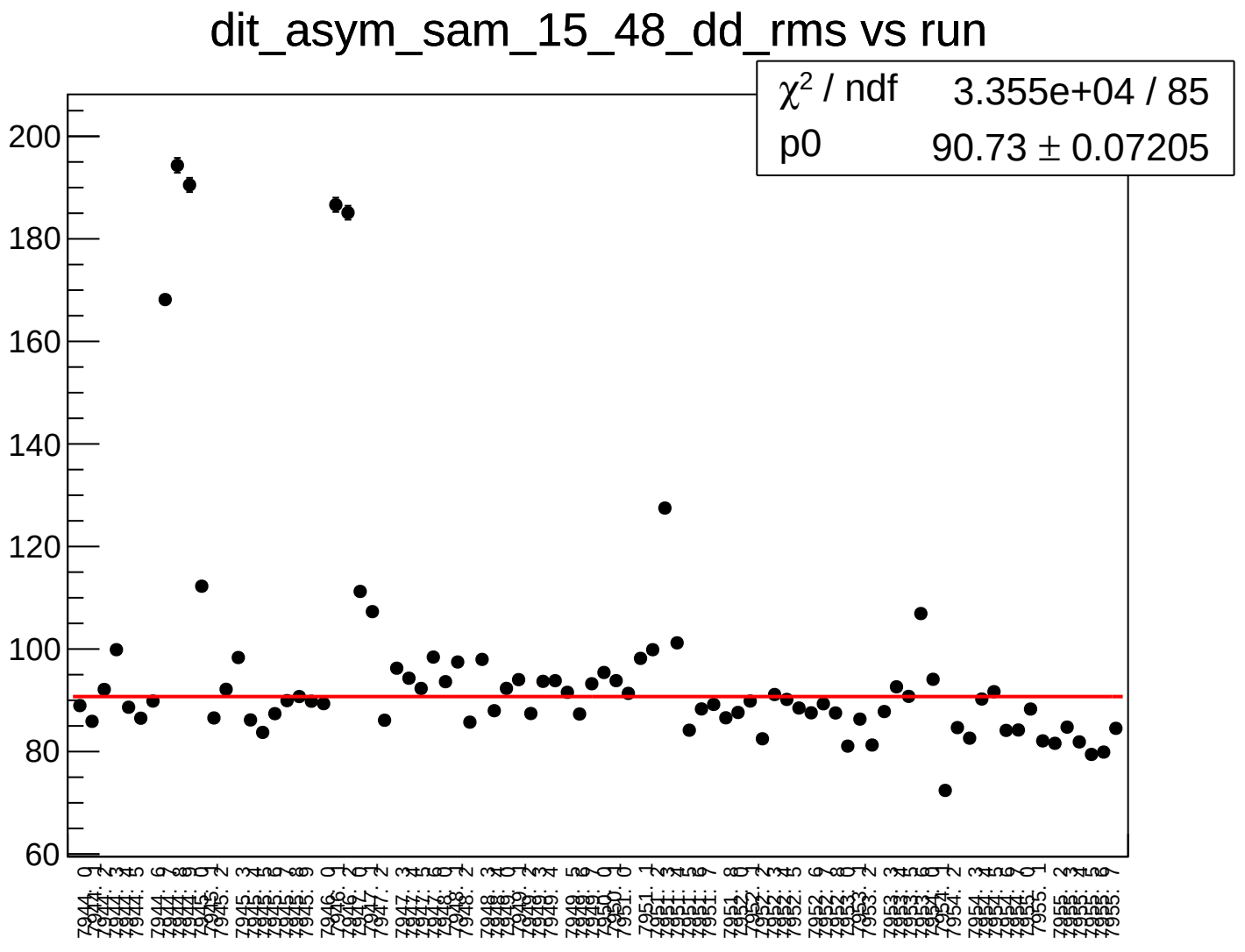

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.507e+04 / 85
p0 79.87 ± 0.06346
180
160
140
120
100
80
60

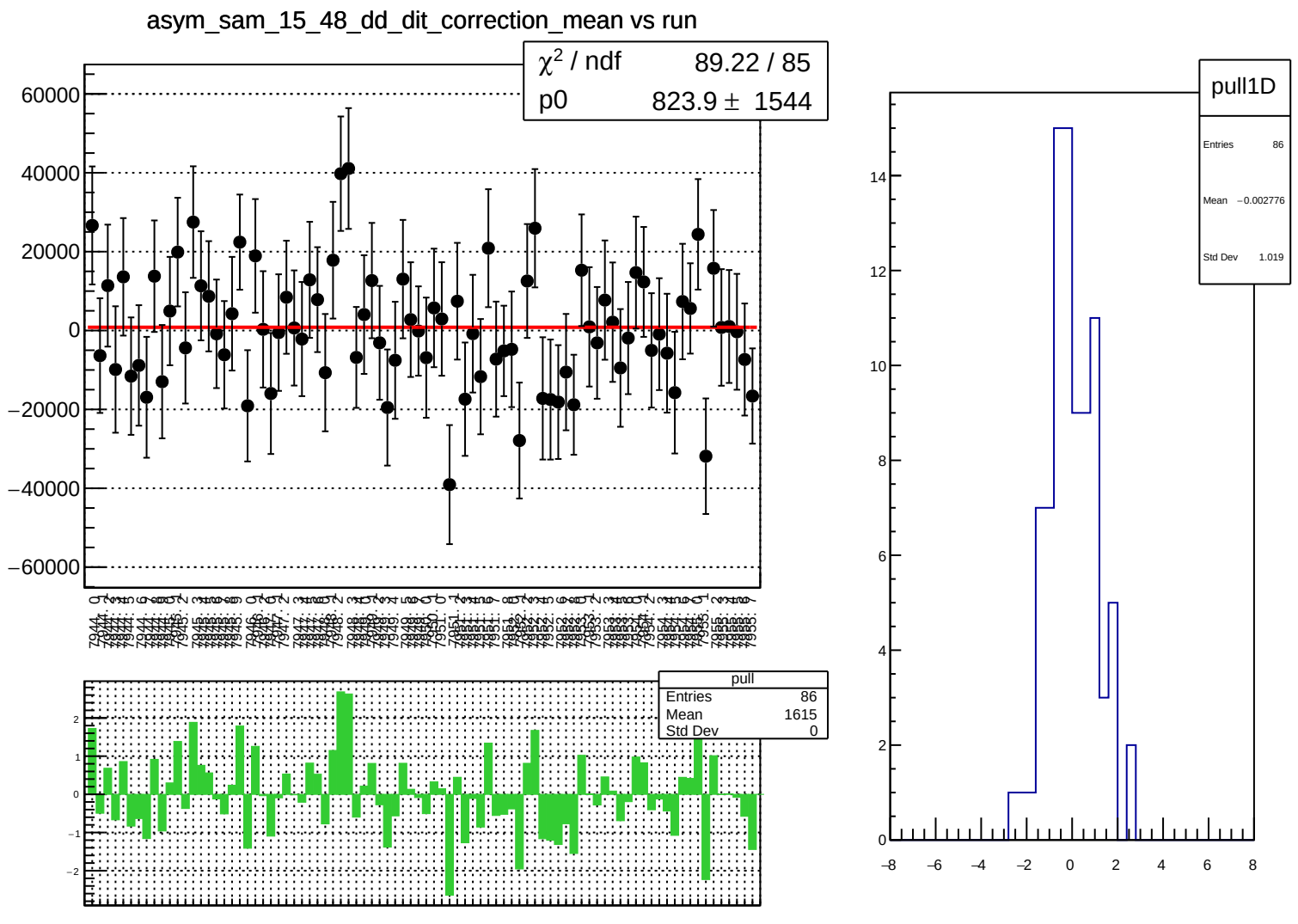

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.78 / 85
p0 729.4 ± 1521
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1286
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.003456
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

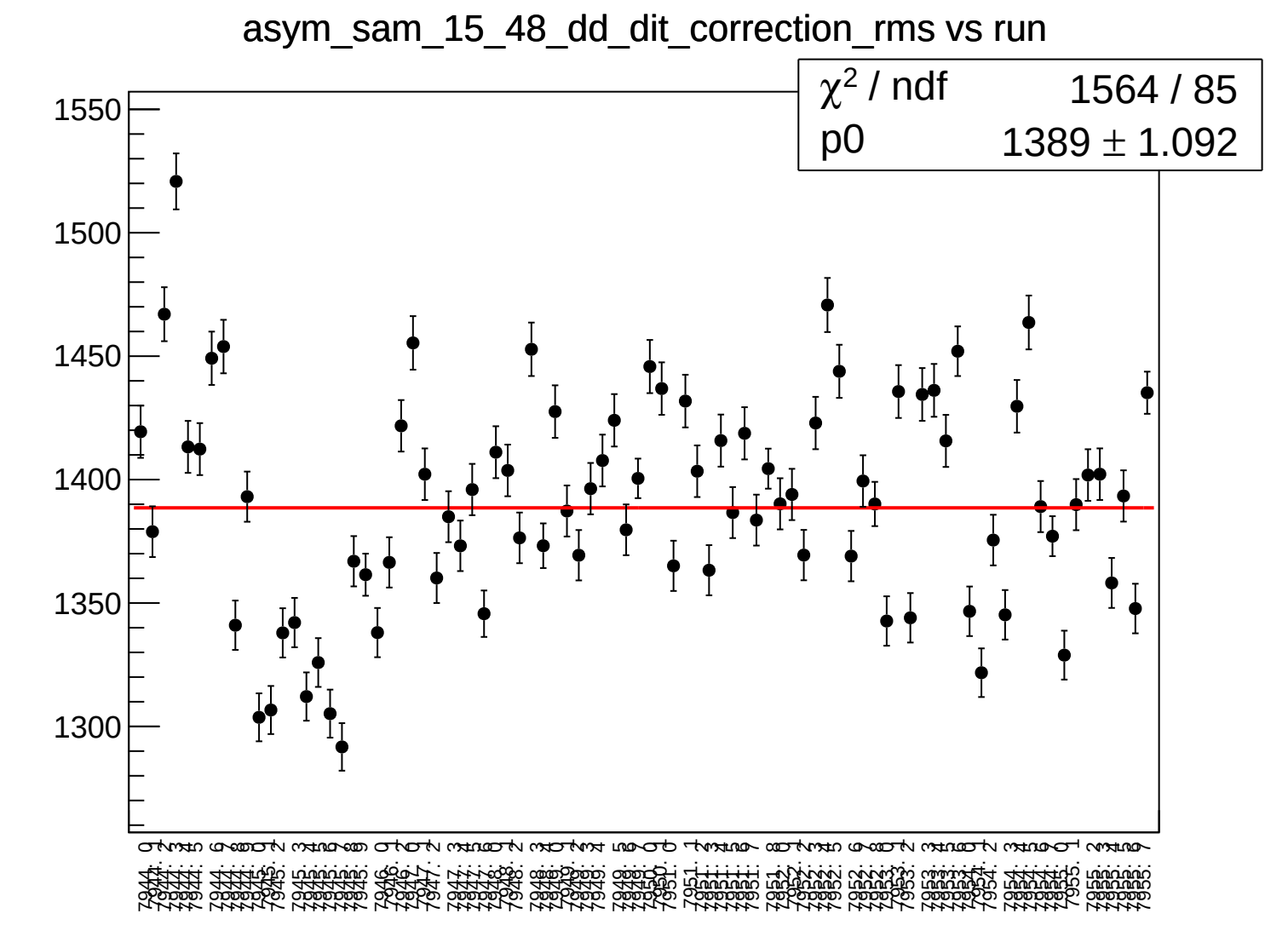

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2035 / 85
p0 1368 ± 1.076
1550
1500
1450
1400
1350
1300
1250

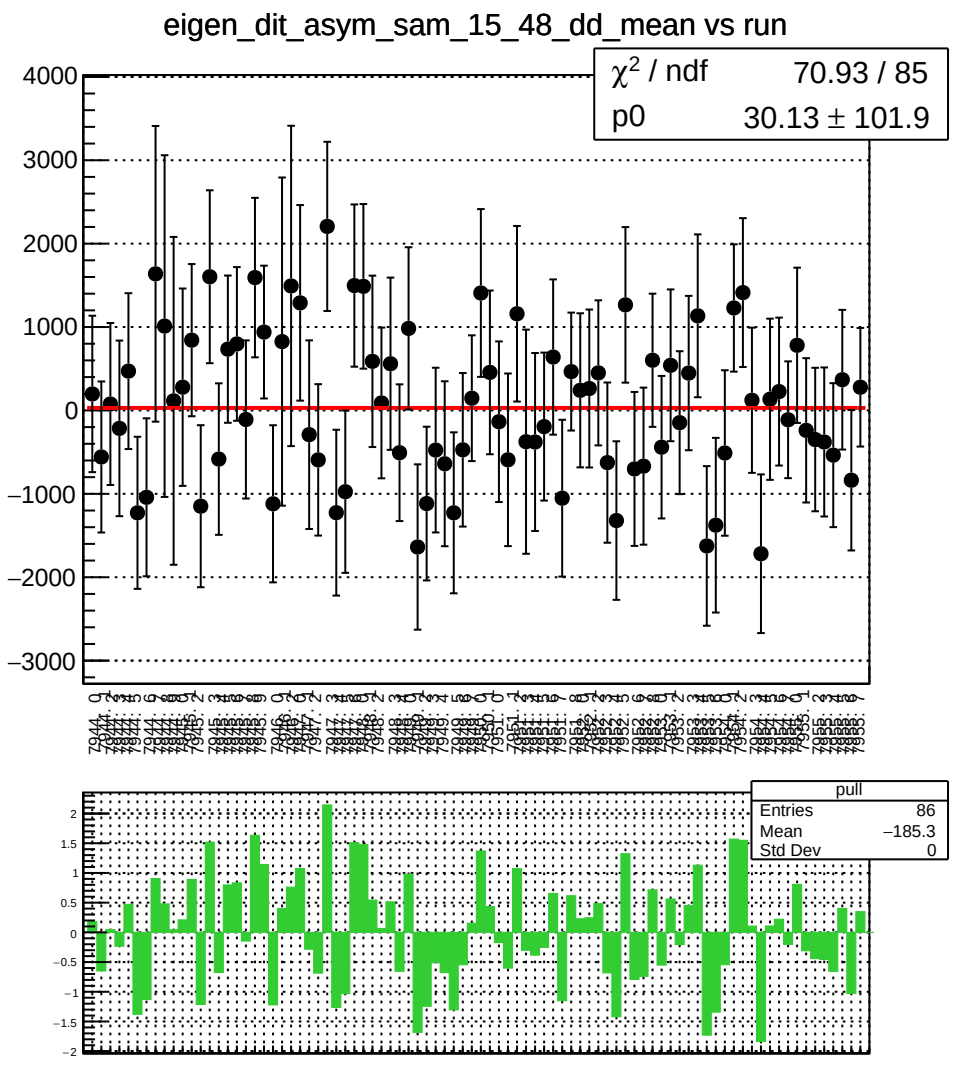

dit_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 70.93 / 85
p0 30.13 ± 101.9
pull
Entries 86
Mean −185.3
Std Dev 0

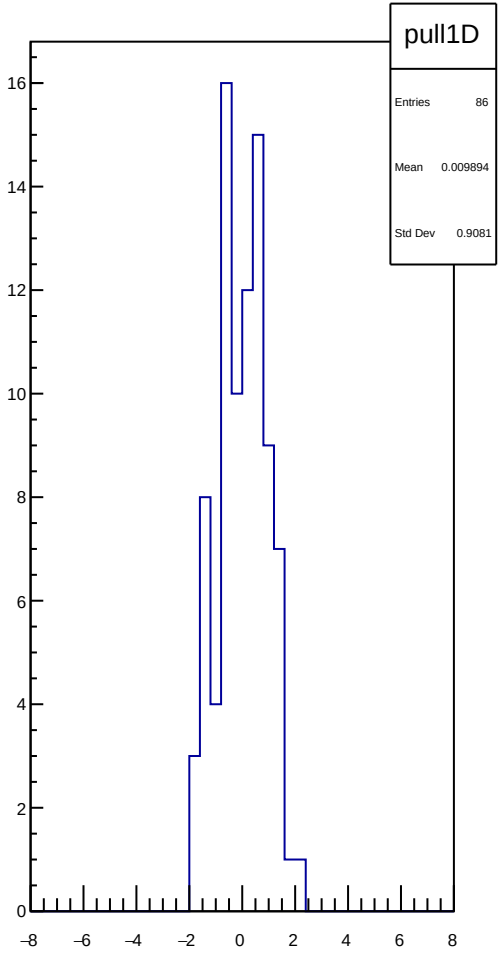

pull1D
Entries 86
Mean 0.009894
Std Dev 0.9081

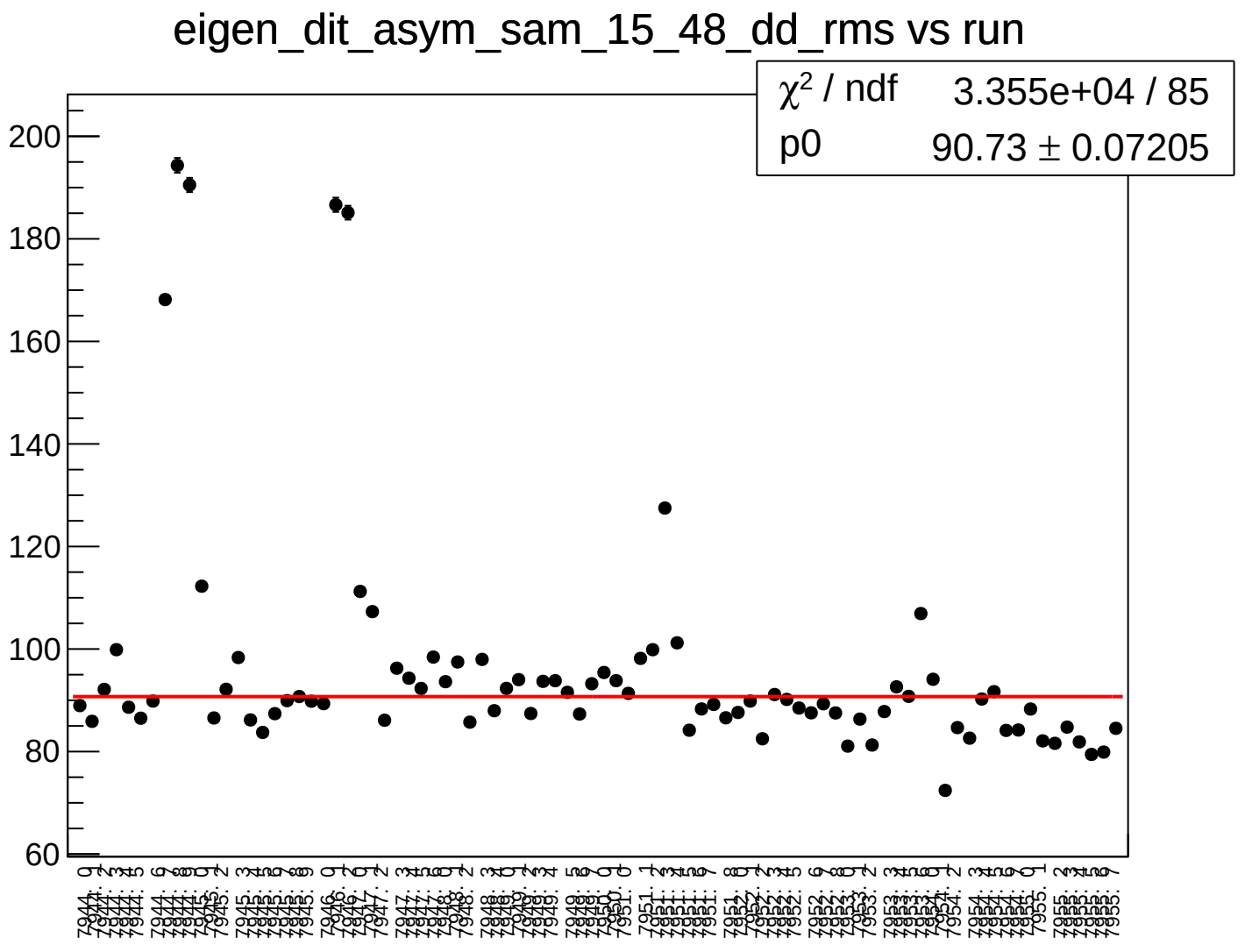

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.355e+04 / 85
p0 90.73 ± 0.07205
200
180
160
140
120
100
80
60

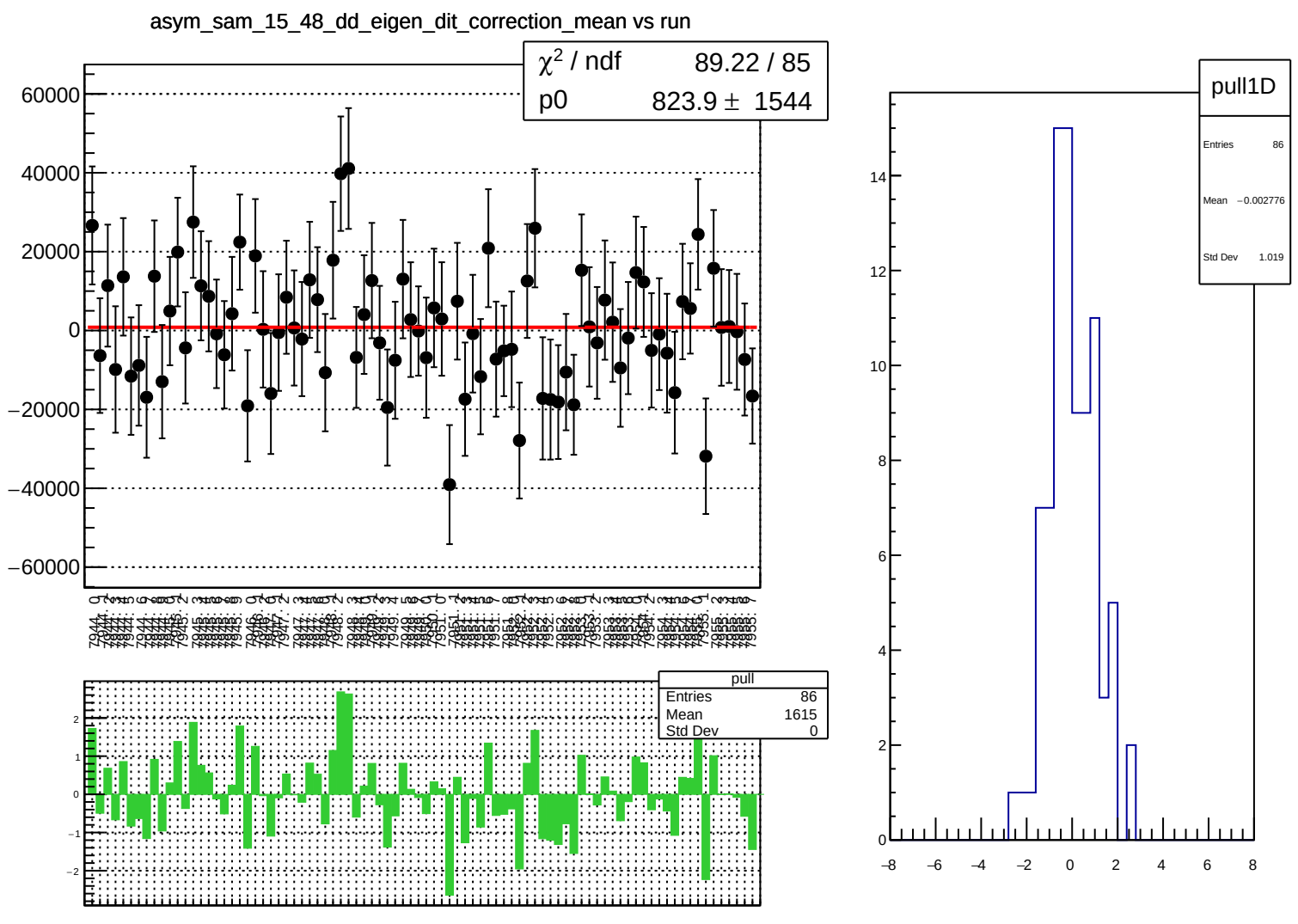

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 89.22 / 85
p0 823.9 ± 1544
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1615
Std Dev 0
pull1D
Entries 86
Mean −0.002776
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

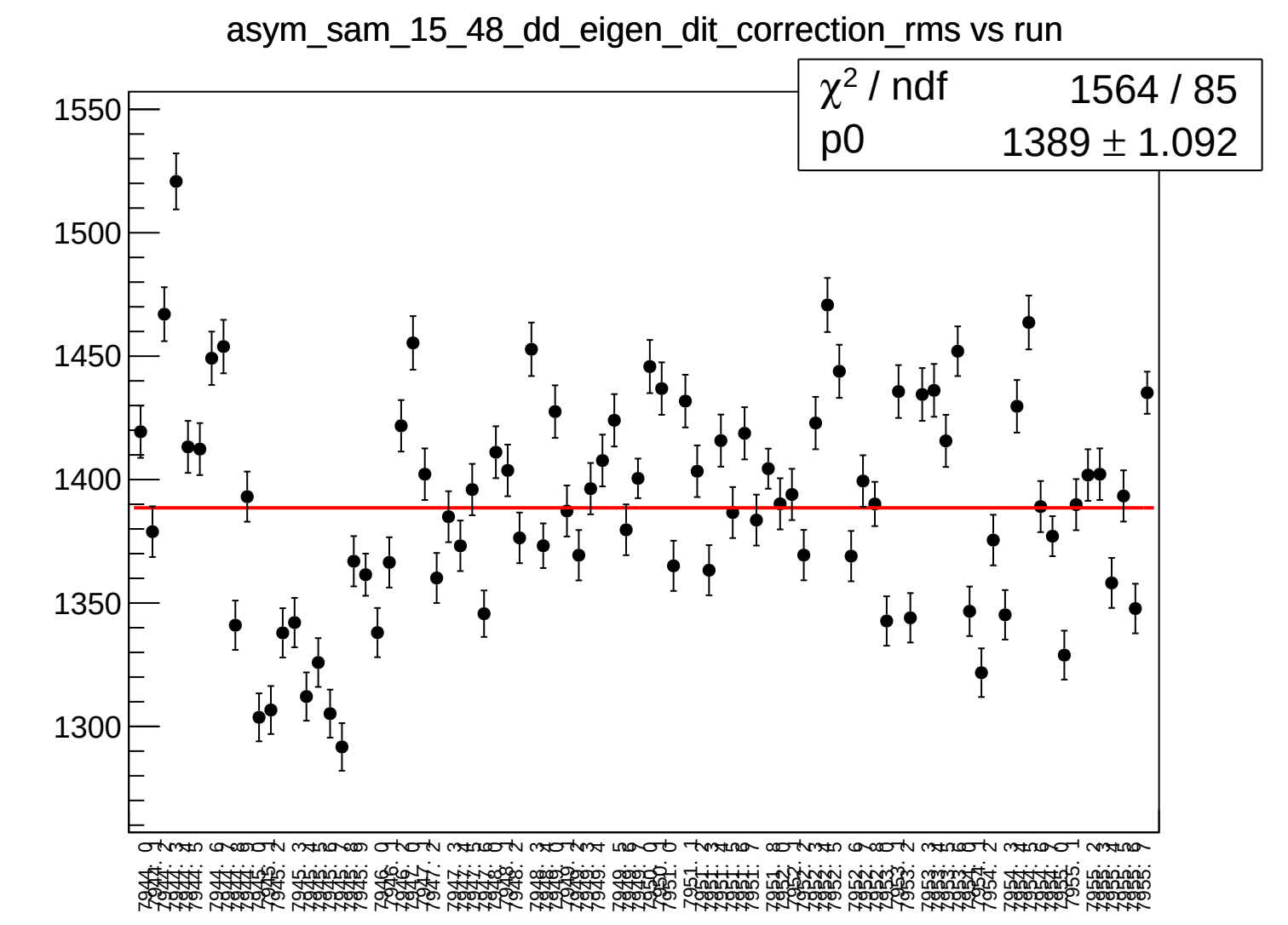

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1564 / 85
p0 1389 ± 1.092
1550
1500
1450
1400
1350
1300

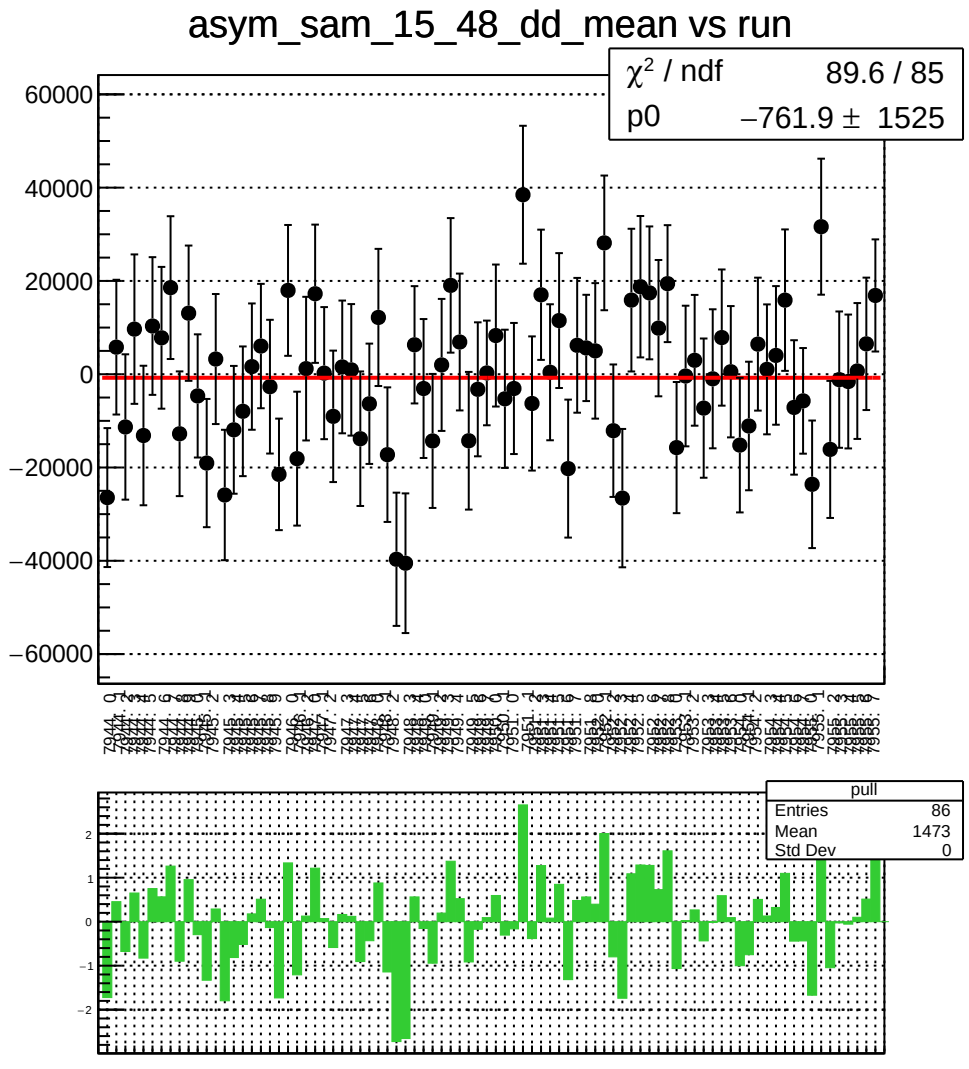

eigen_dit_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 70.93 / 85
p0 30.13 ± 101.9
pull
Entries 86
Mean −185.3
Std Dev 0

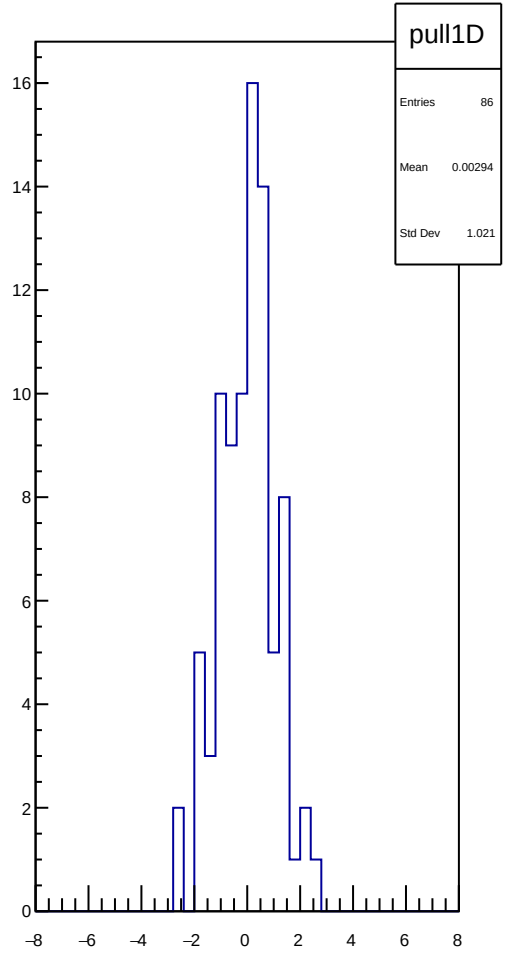

pull1D
Entries 86
Mean 0.009894
Std Dev 0.9081

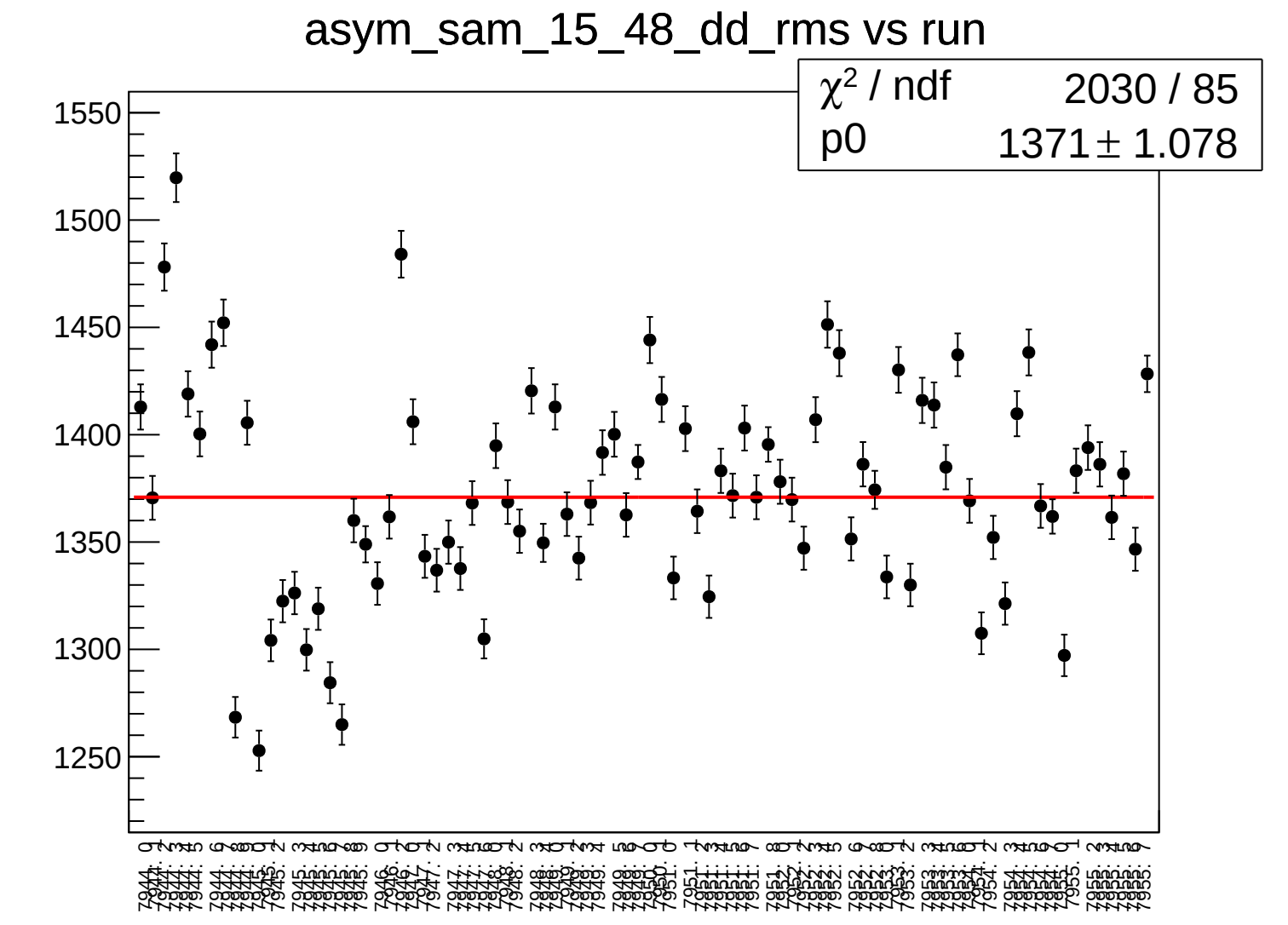

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.355e+04 / 85
p0 90.73 ± 0.07205
200
180
160
140
120
100
80
60

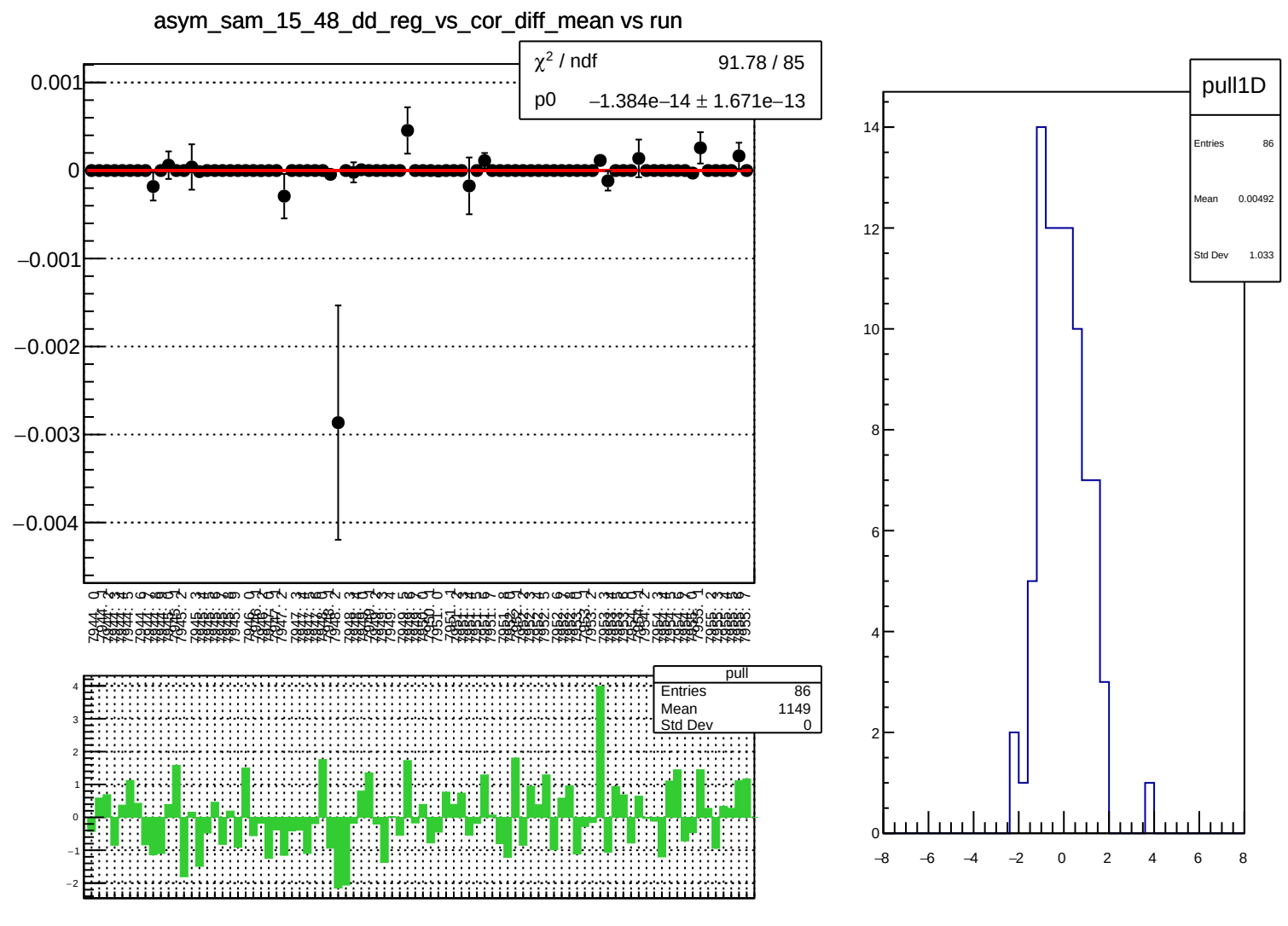

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.22 / 85
p0 823.9 ± 1544
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1615
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.002776
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

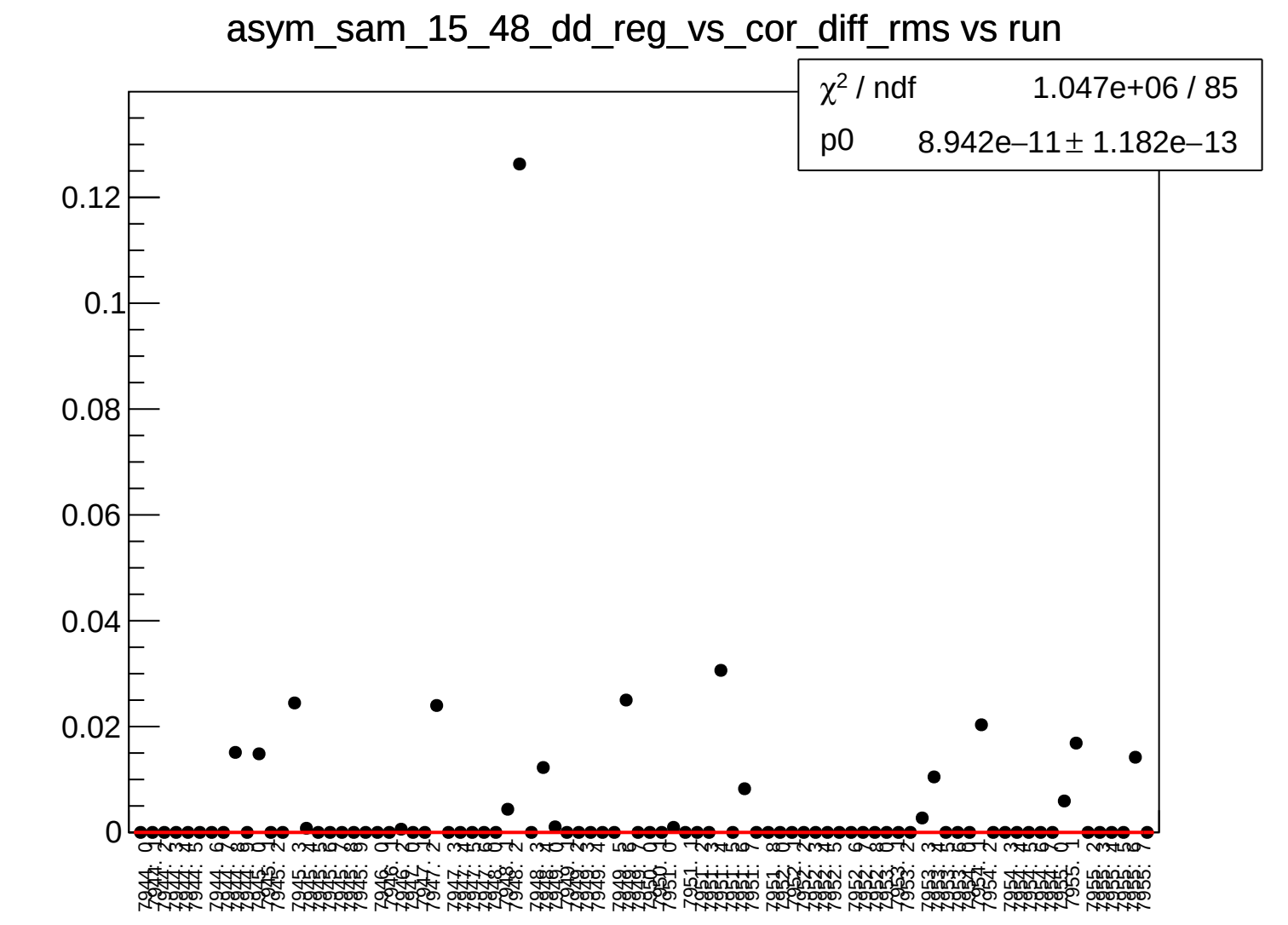

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1564 / 85
p0 1389 ± 1.092
1550
1500
1450
1400
1350
1300

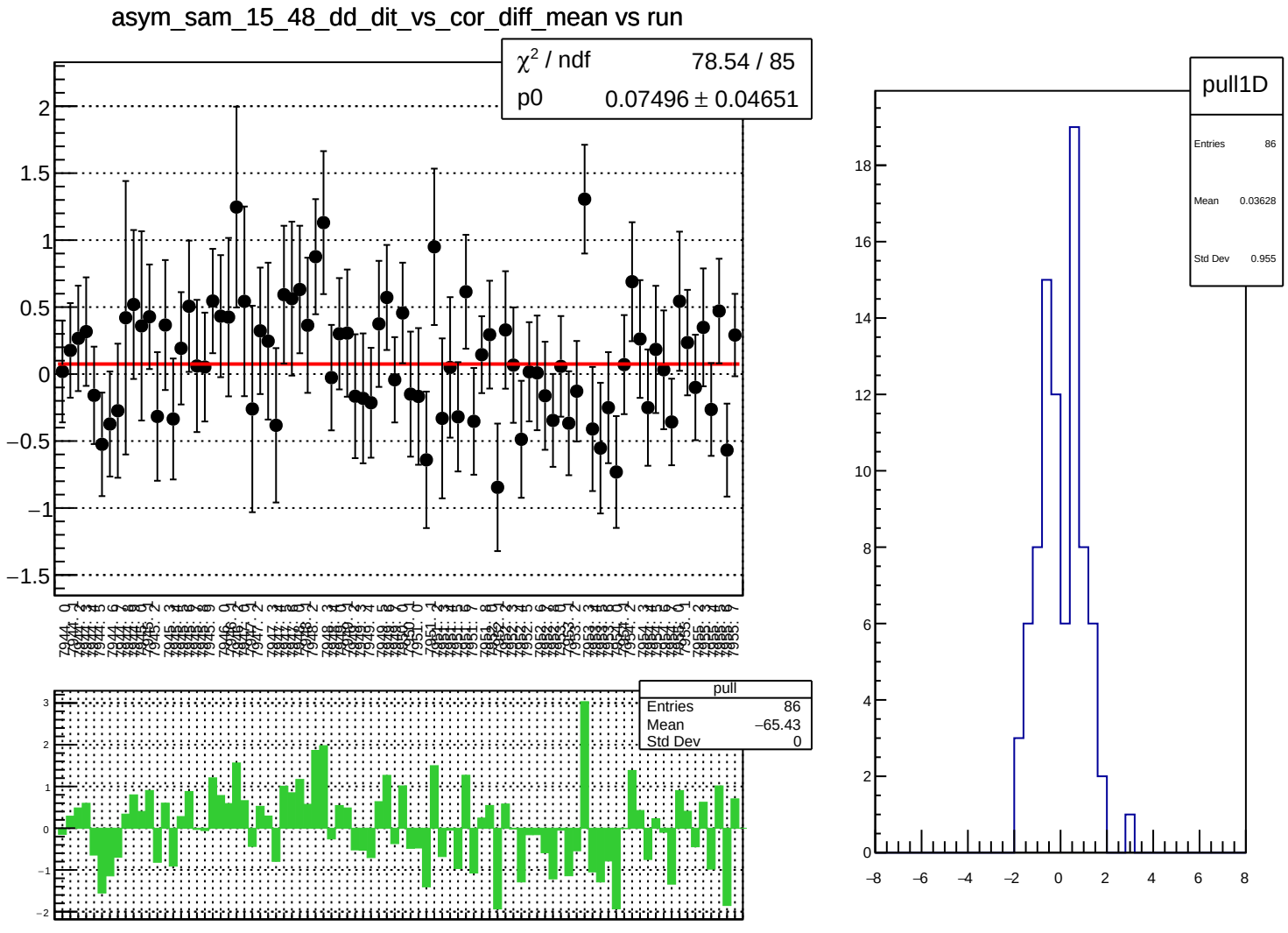

asym_sam_15_48_dd_mean vs run
χ² / ndf 89.6 / 85
p0 −761.9 ± 1525
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1473
Std Dev 0
2
1
0
−1
−2

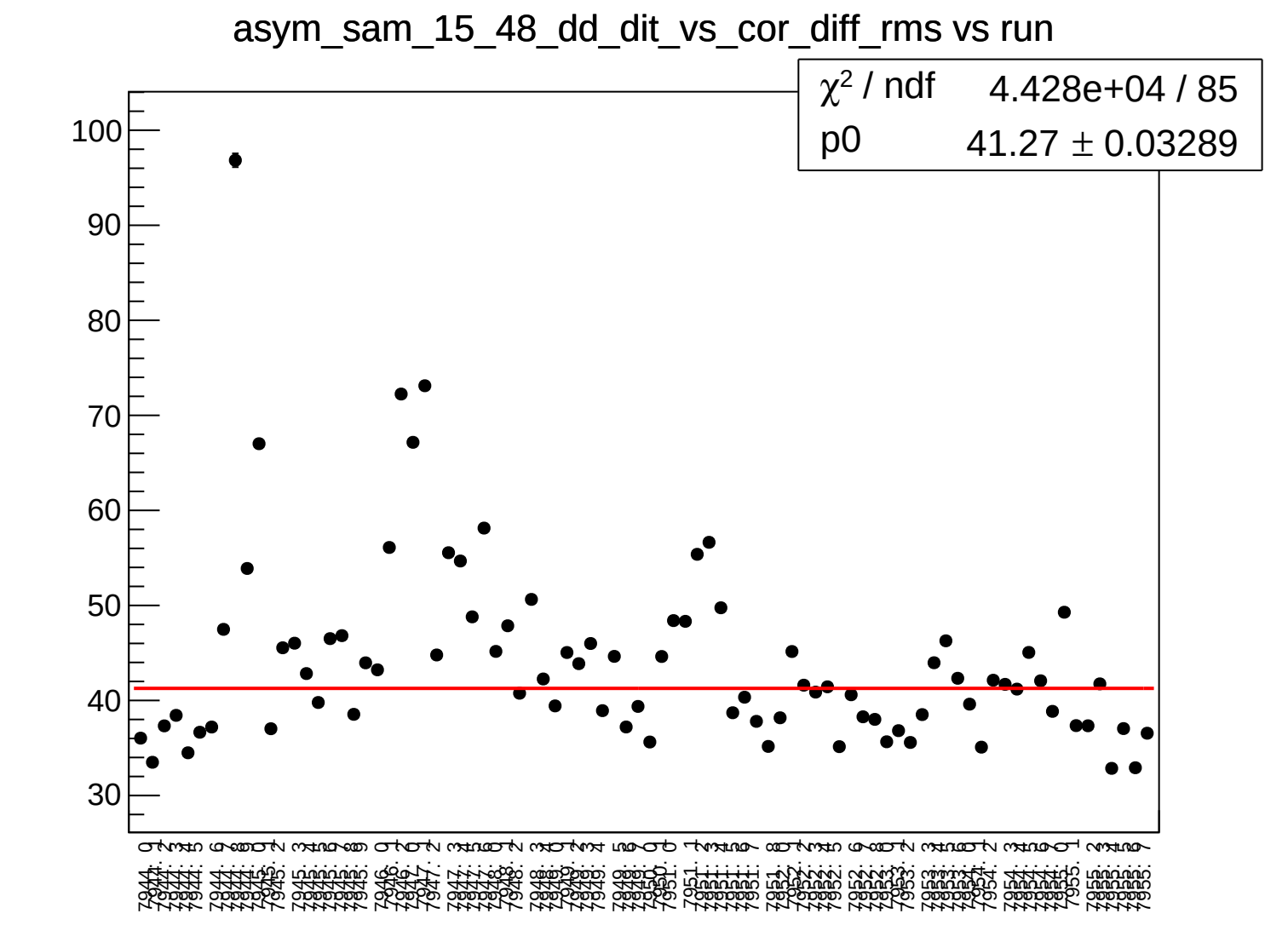

pull1D
Entries 86
Mean 0.00294
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

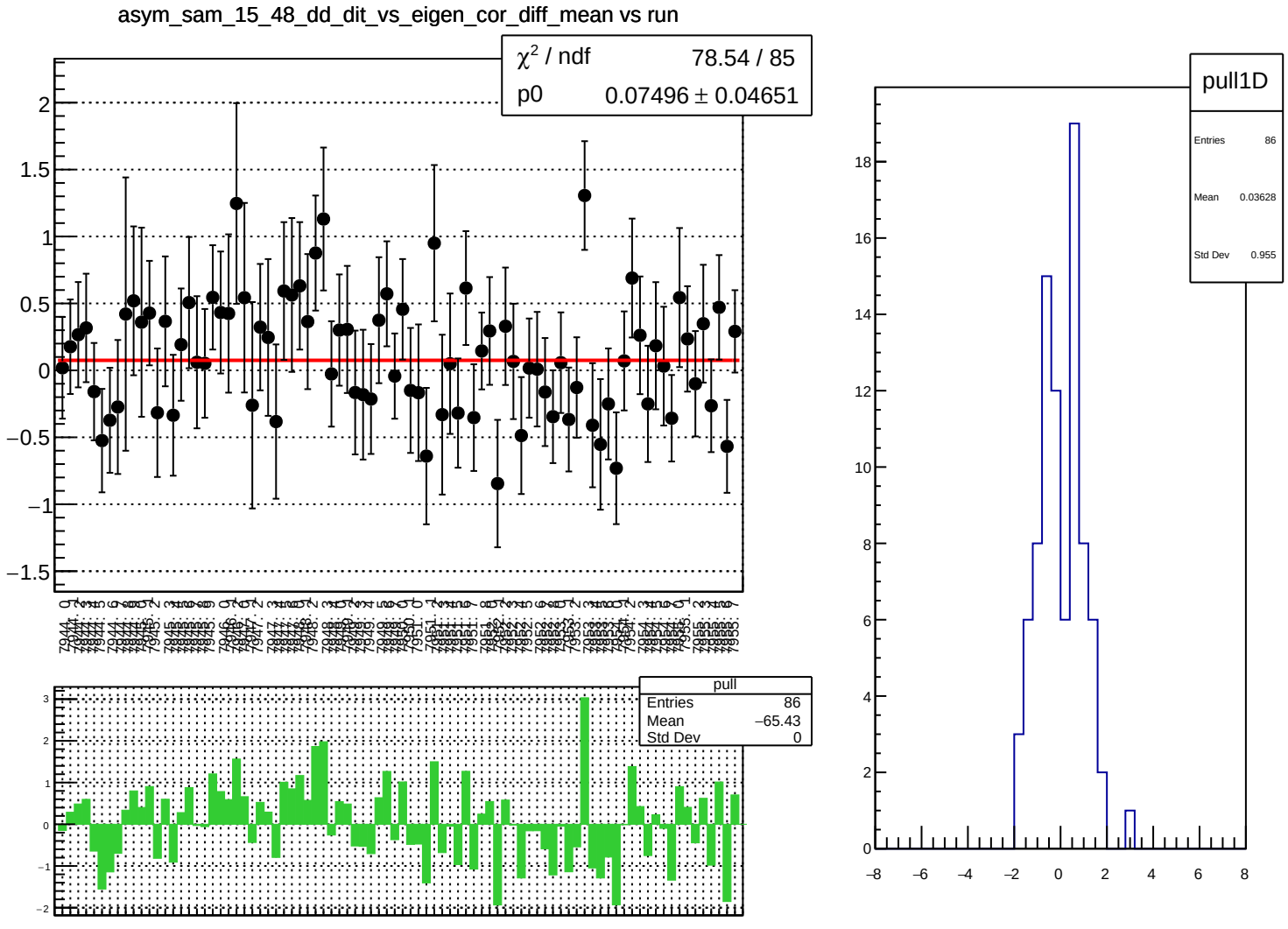

asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2030 / 85
p0 1371 ± 1.078
1550
1500
1450
1400
1350
1300
1250

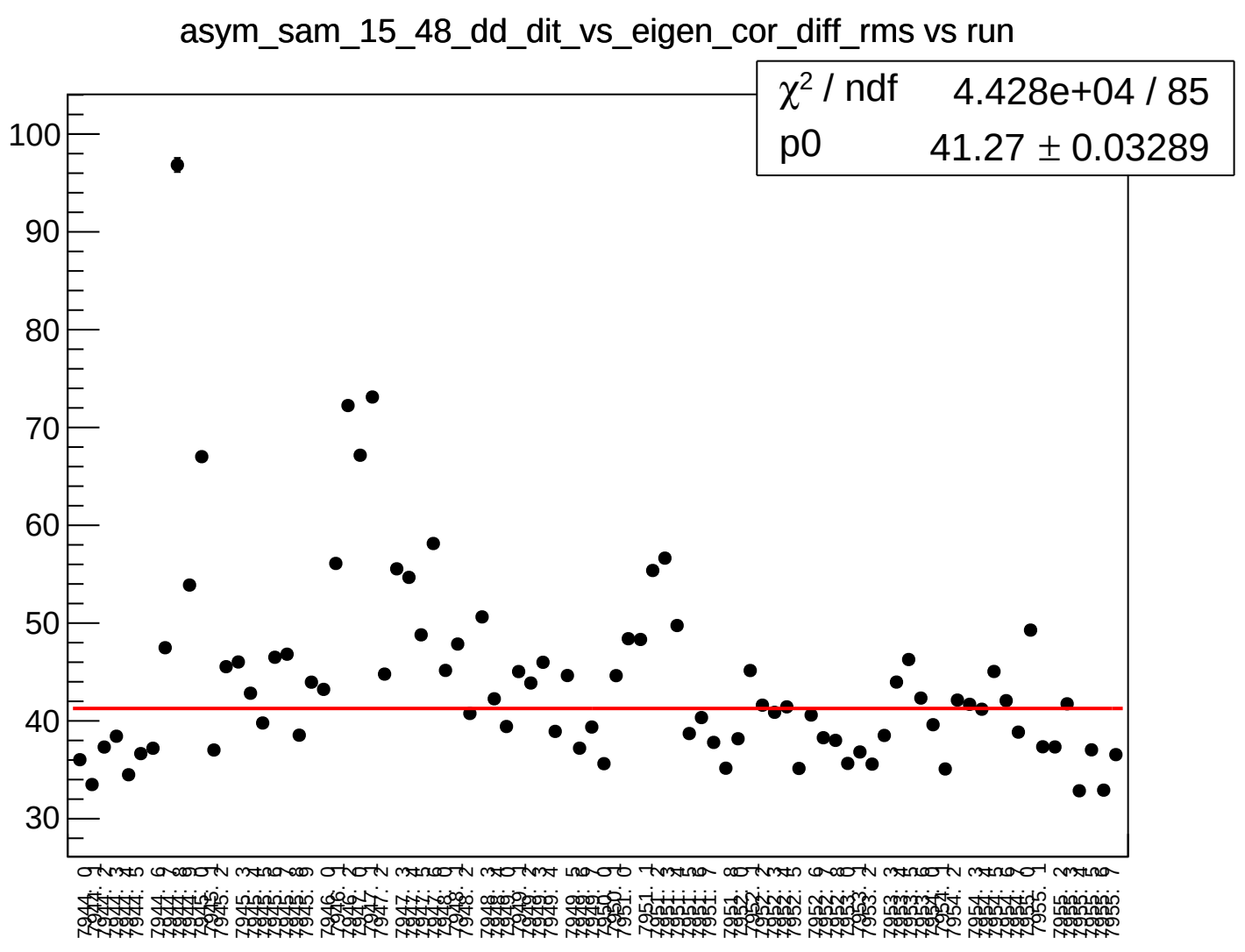

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.78 / 85
p0 −1.384e−14 ± 1.671e−13
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 86
Mean 1149
Std Dev 0
pull1D
Entries 86
Mean 0.00492
Std Dev 1.033

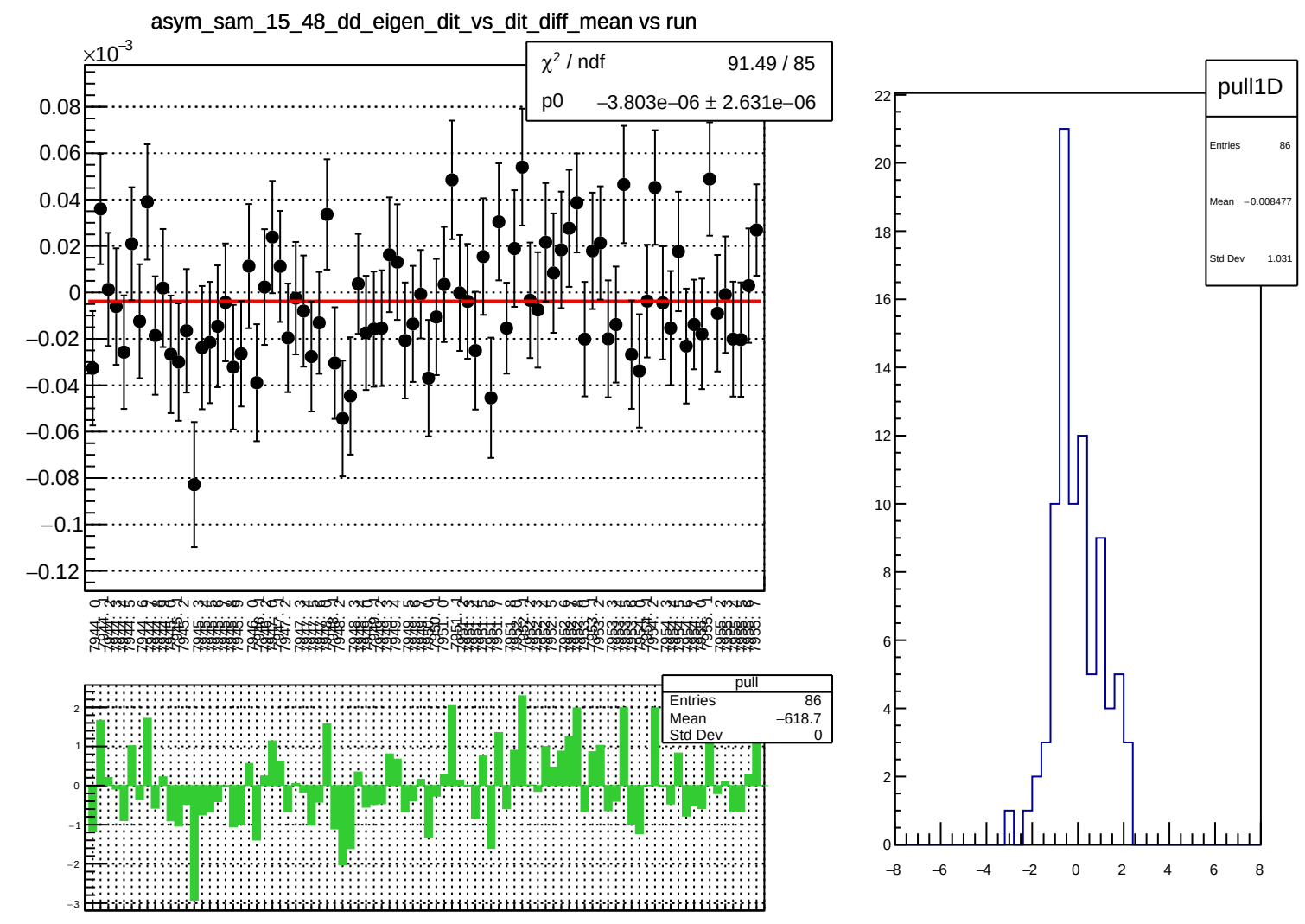

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.047e+06 / 85
p0 8.942e−11 ± 1.182e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

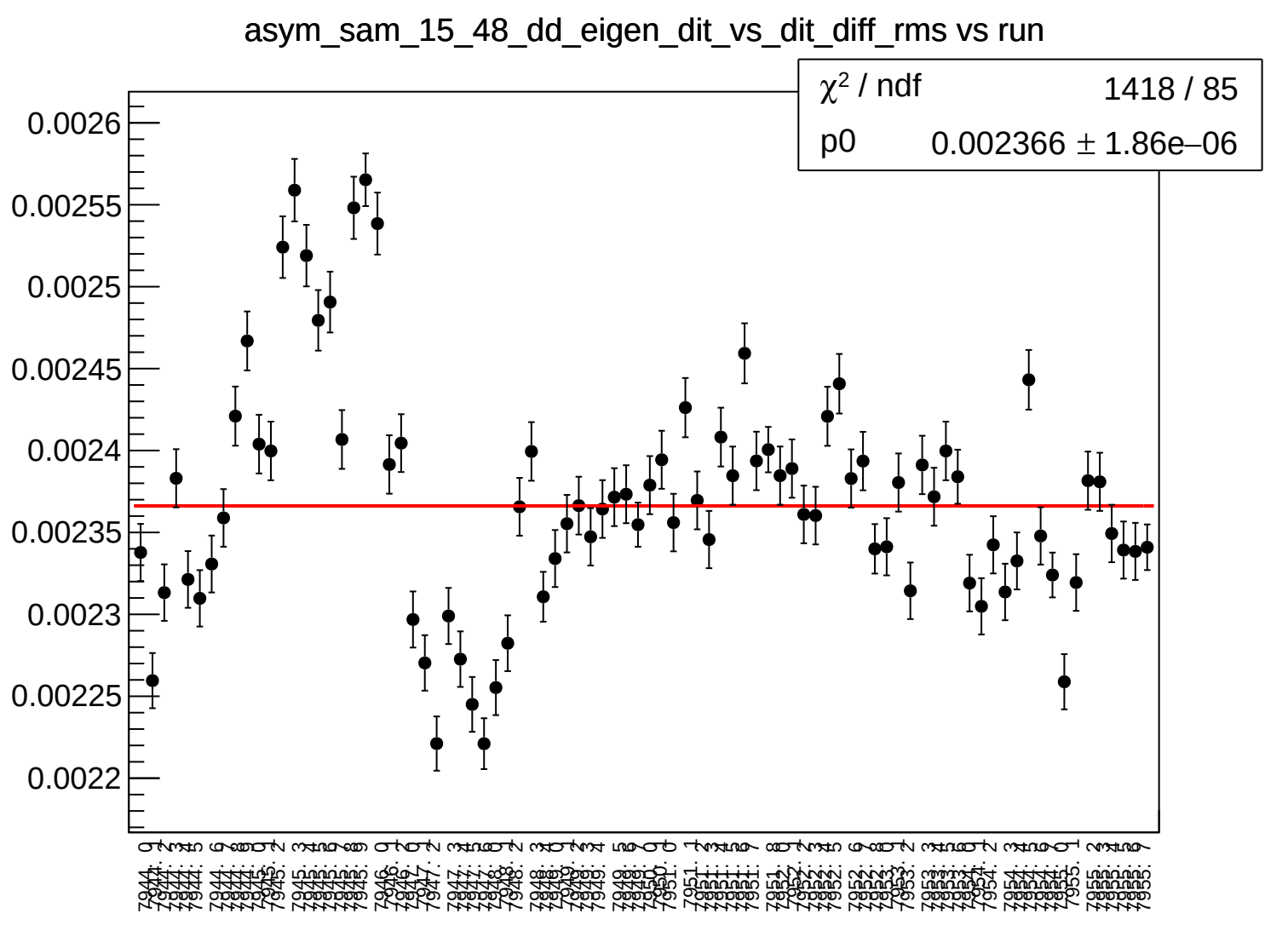

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 85
p0 0.07496 ± 0.04651
pull
Entries 86
Mean −65.43
Std Dev 0
pull1D
Entries 86
Mean 0.03628
Std Dev 0.955

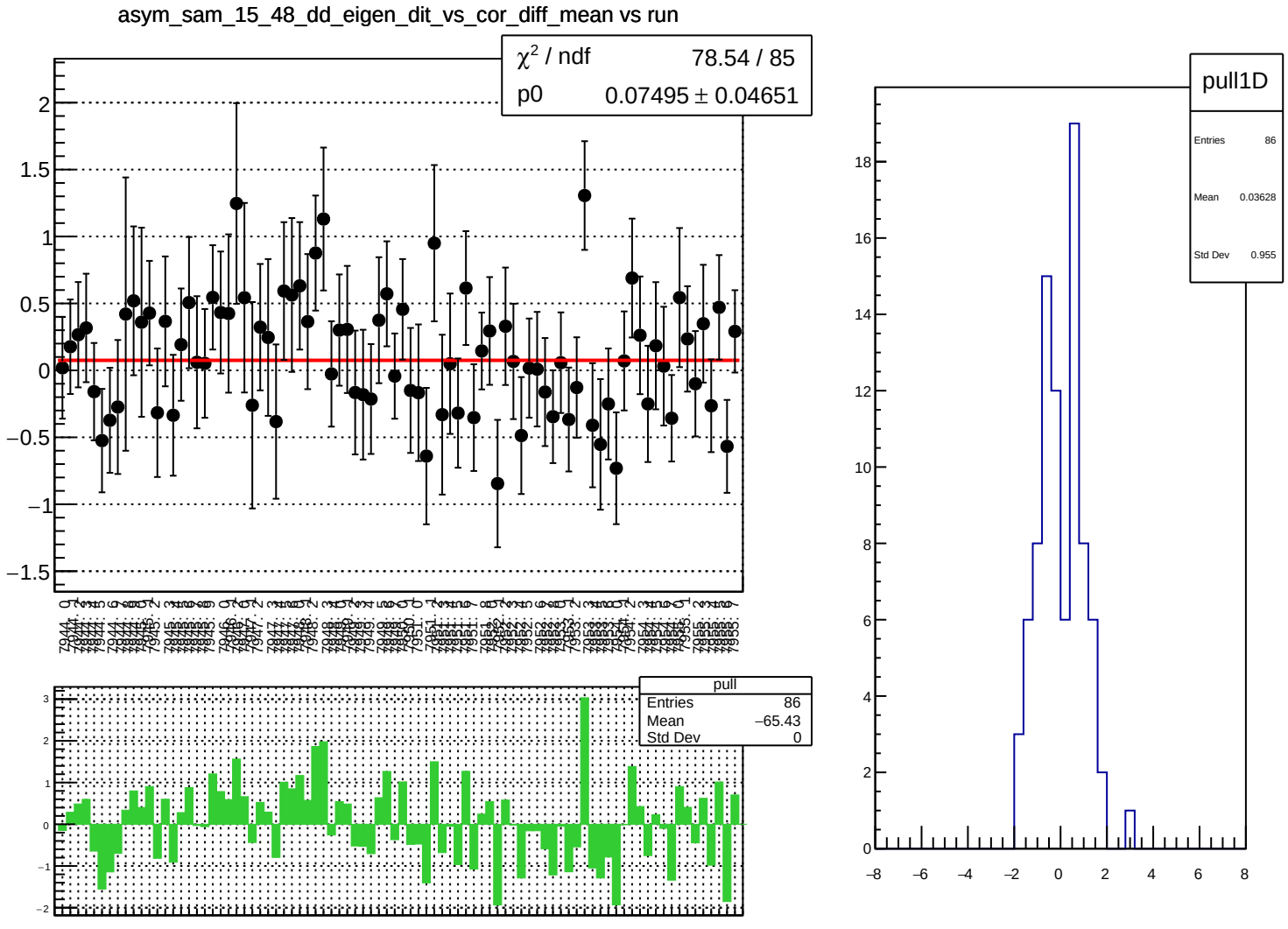

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.428e+04 / 85
p0 41.27 ± 0.03289
100
90
80
70
60
50
40
30

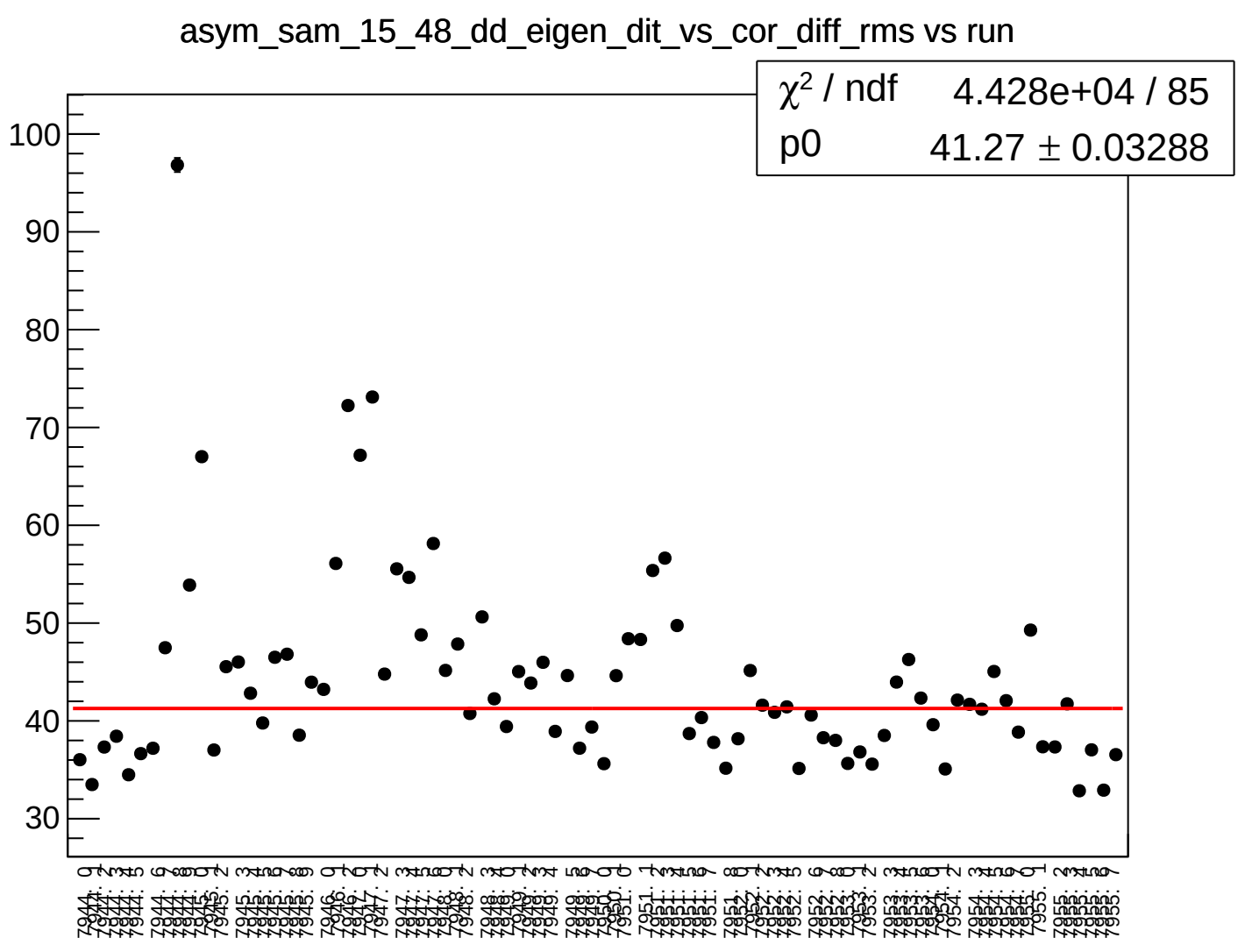

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 85
p0 0.07496 ± 0.04651
pull
Entries 86
Mean −65.43
Std Dev 0
pull1D
Entries 86
Mean 0.03628
Std Dev 0.955

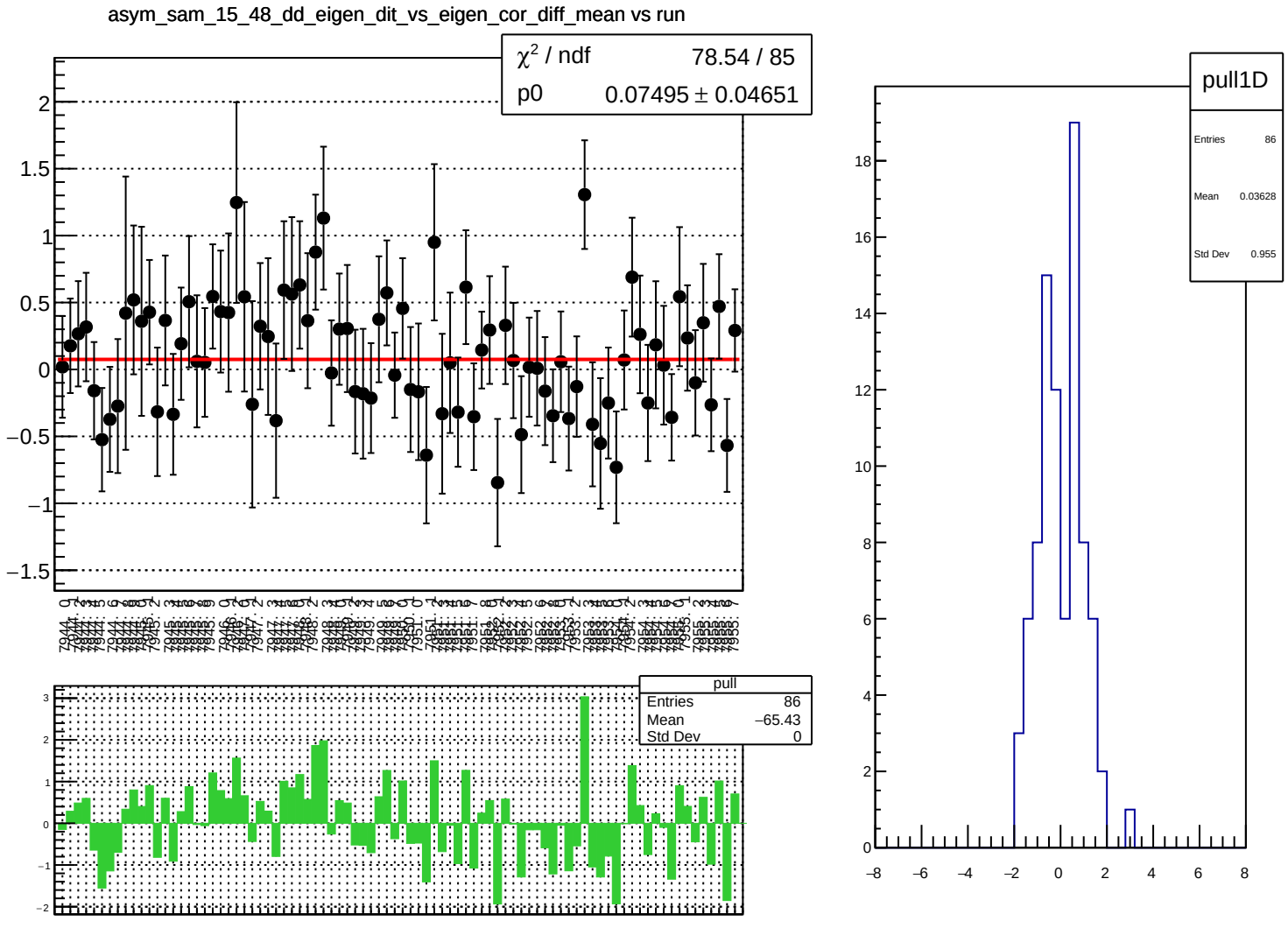

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.428e+04 / 85
p0 41.27 ± 0.03289
100
90
80
70
60
50
40
30

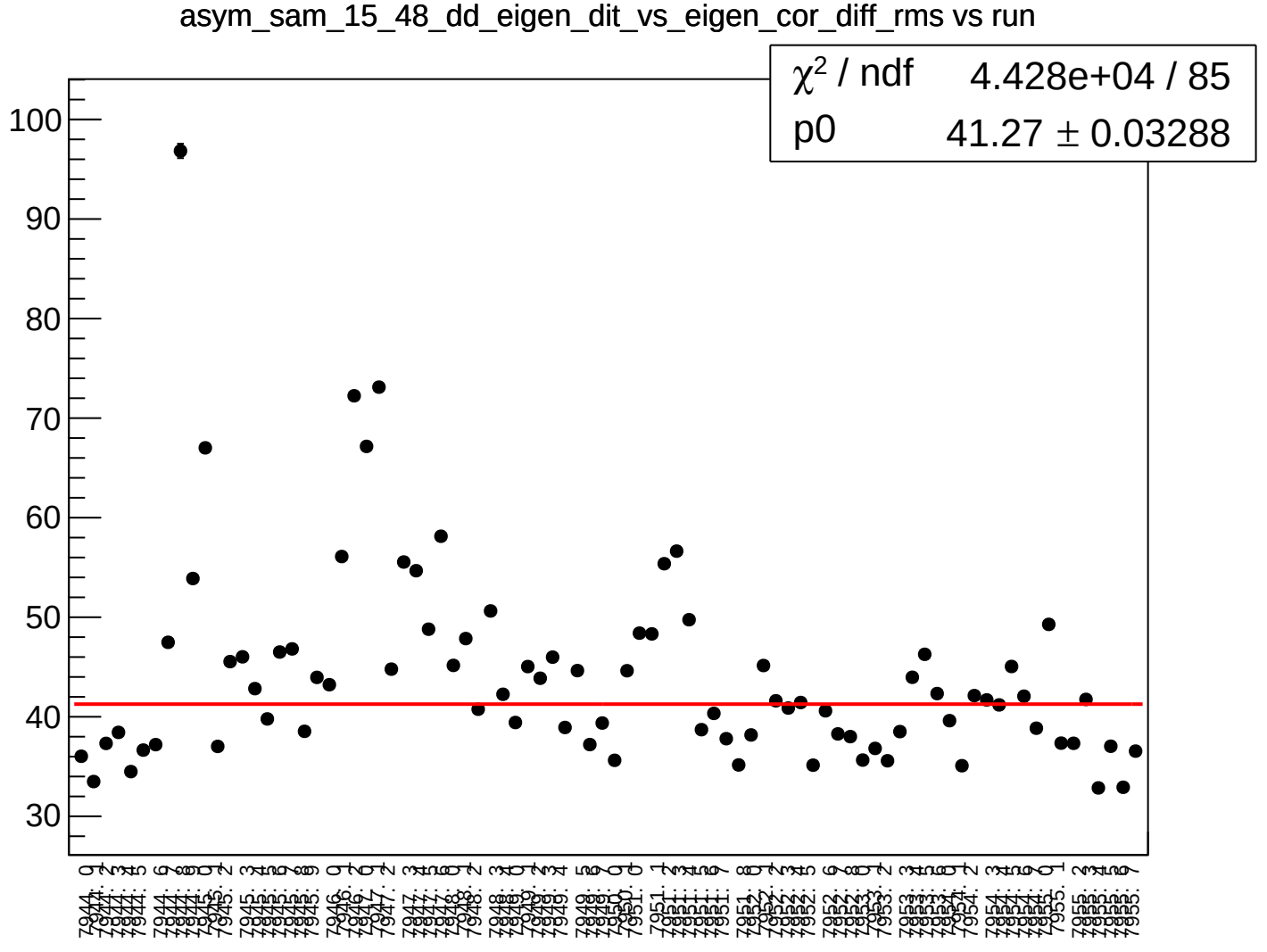

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.49 / 85
p0 −3.803e−06 ± 2.631e−06
pull
Entries 86
Mean −618.7
Std Dev 0
pull1D
Entries 86
Mean −0.008477
Std Dev 1.031

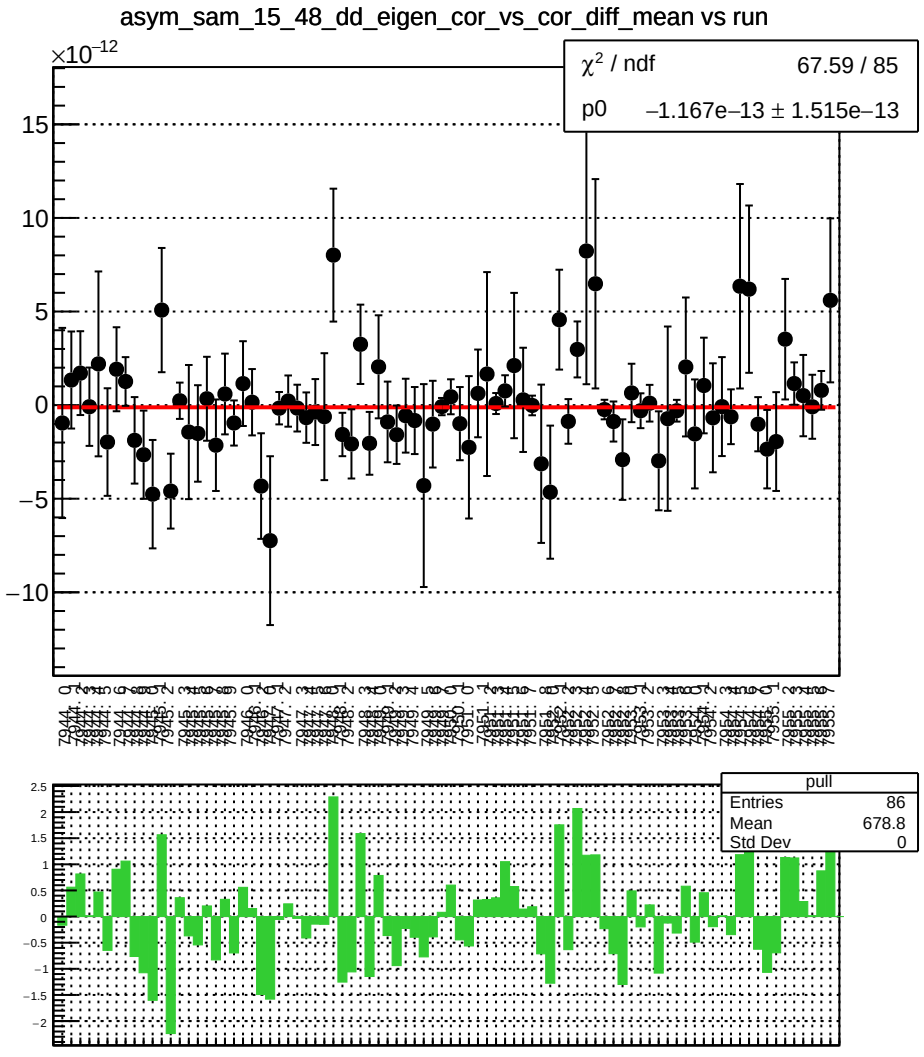

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1418 / 85
p0 0.002366 ± 1.86e–06
0.0026
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023
0.00225
0.0022

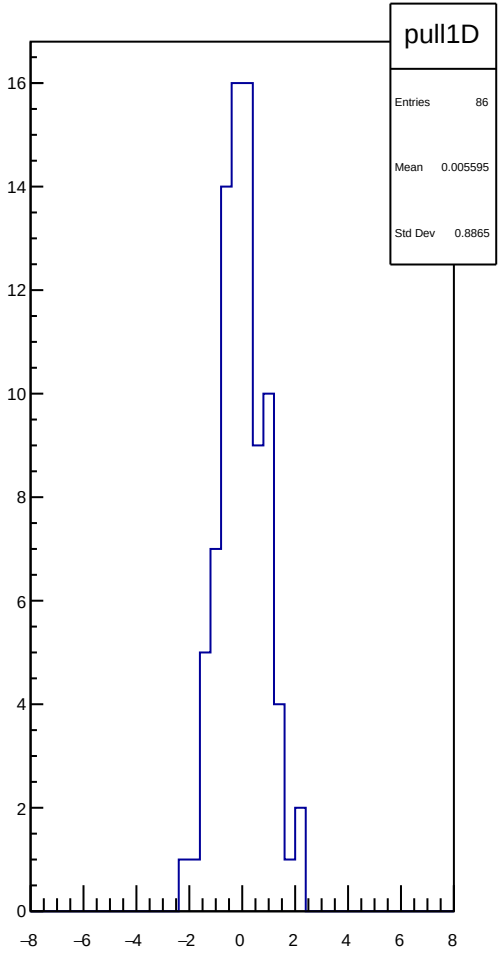

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 85
p0 0.07495 ± 0.04651
pull
Entries 86
Mean −65.43
Std Dev 0
pull1D
Entries 86
Mean 0.03628
Std Dev 0.955

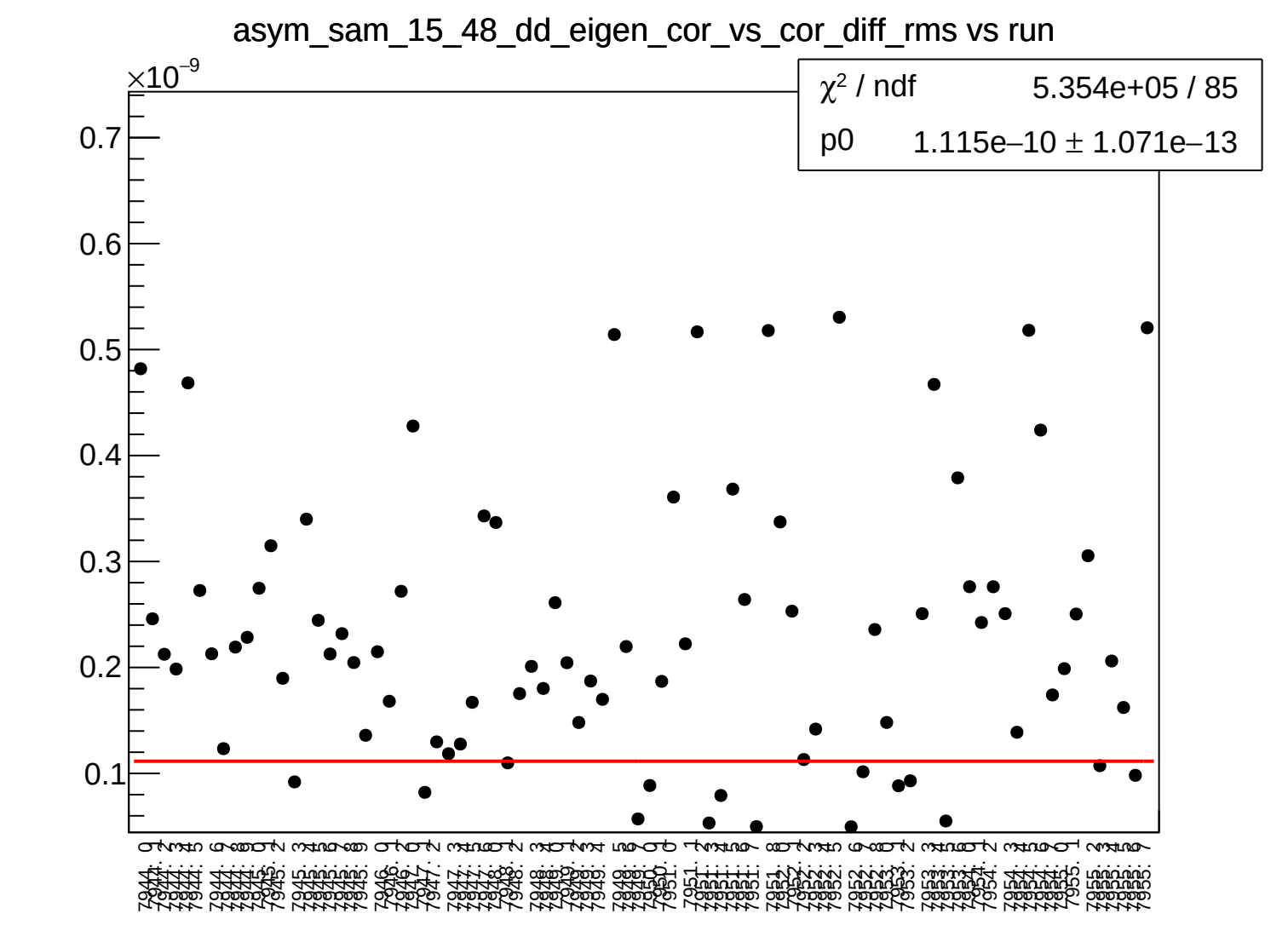

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.428e+04 / 85
p0 41.27 ± 0.03288
100
90
80
70
60
50
40
30

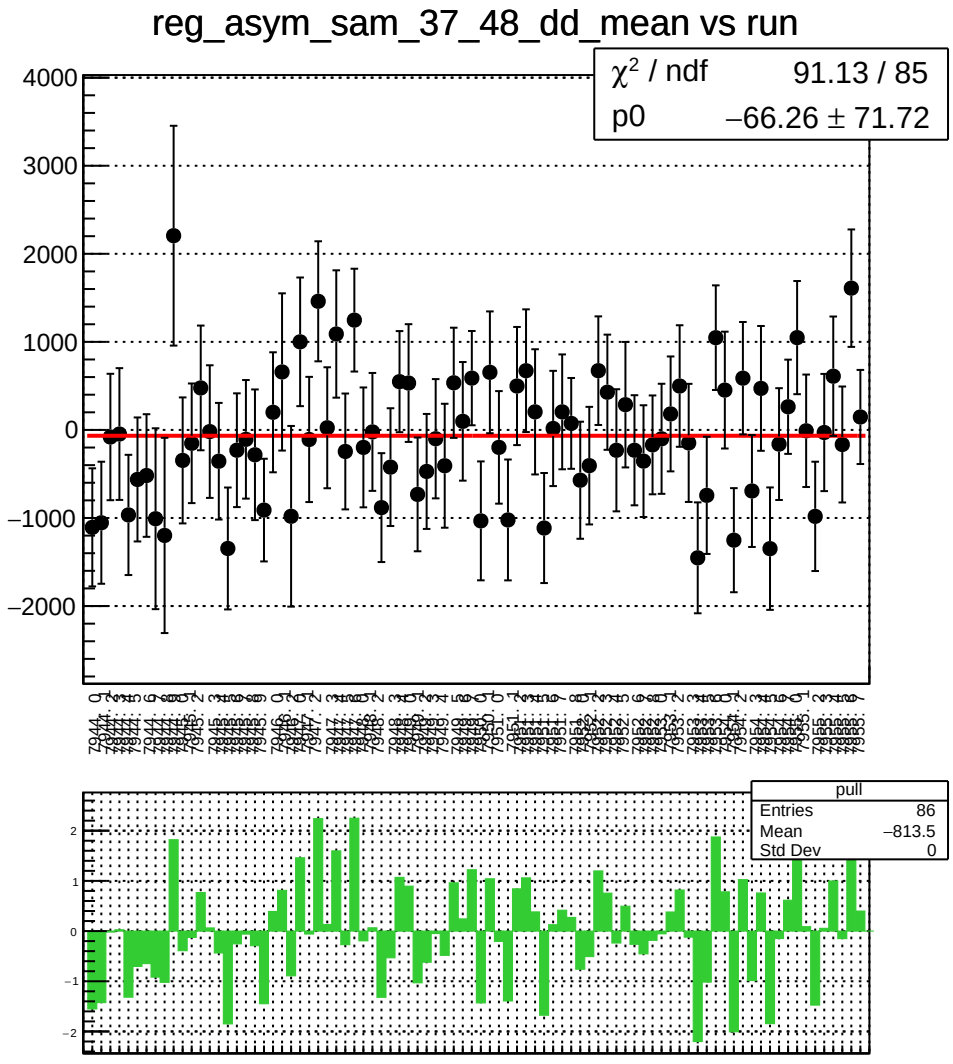

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 85
p0 0.07495 ± 0.04651
pull
Entries 86
Mean −65.43
Std Dev 0
pull1D
Entries 86
Mean 0.03628
Std Dev 0.955

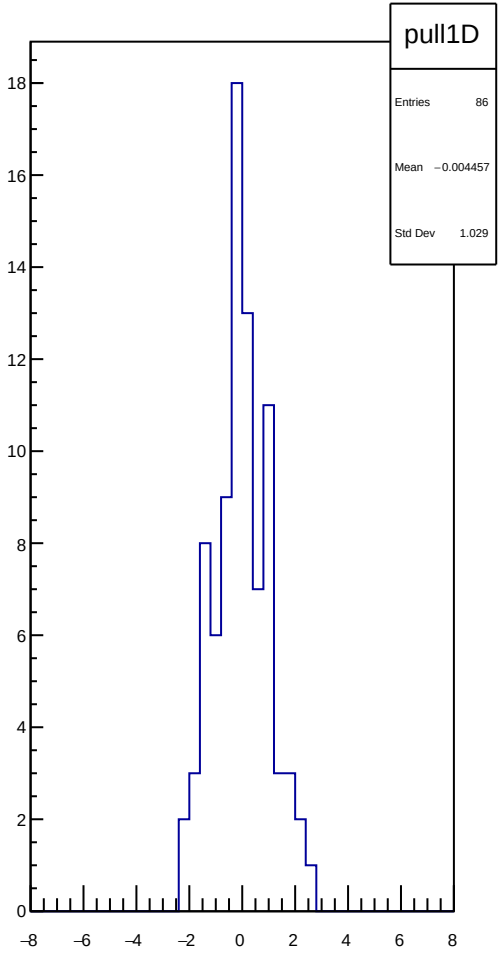

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.428e+04 / 85
p0 41.27 ± 0.03288
100
90
80
70
60
50
40
30

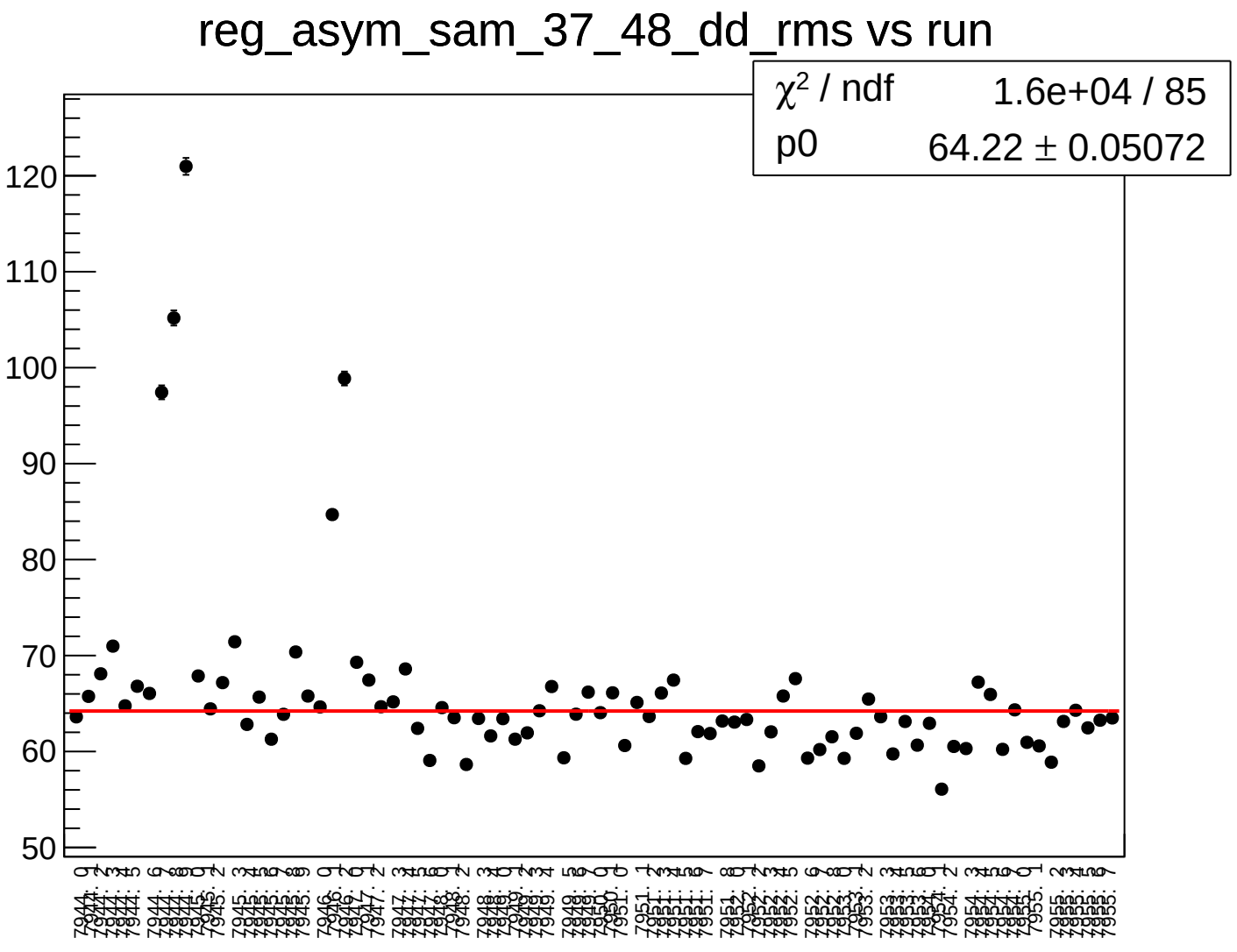

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.59 / 85
p0 −1.167e−13 ± 1.515e−13
15
10
5
0
−5
−10
pull
Entries 86
Mean 678.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

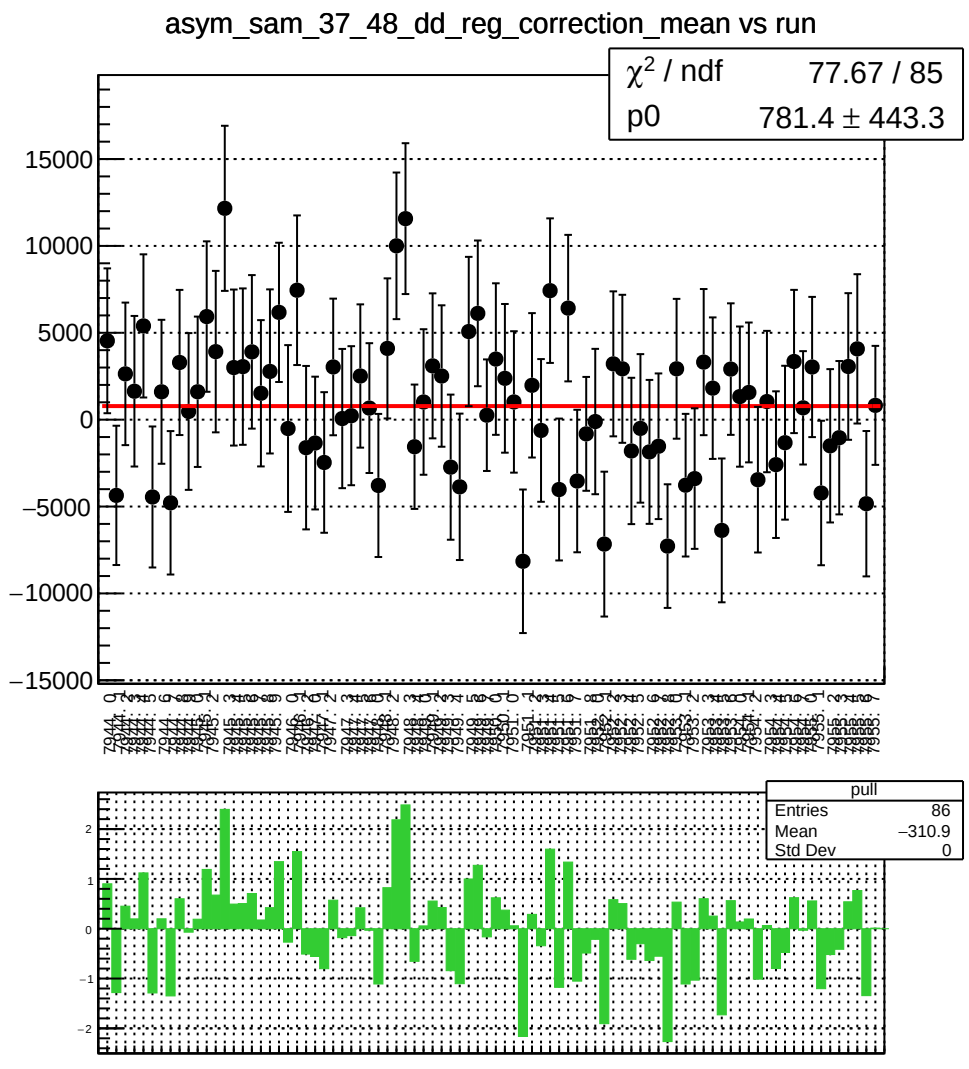

pull1D
Entries 86
Mean 0.005595
Std Dev 0.8865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

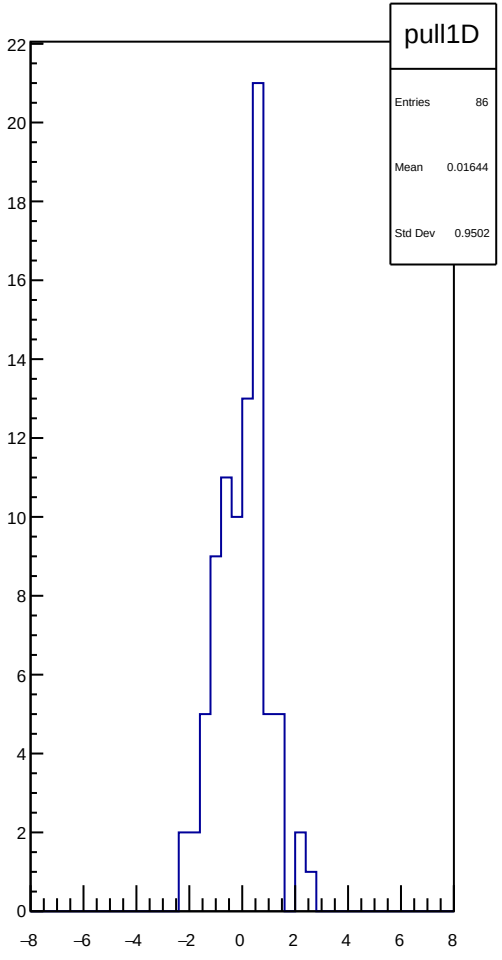

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.354e+05 / 85
p0 1.115e−10 ± 1.071e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

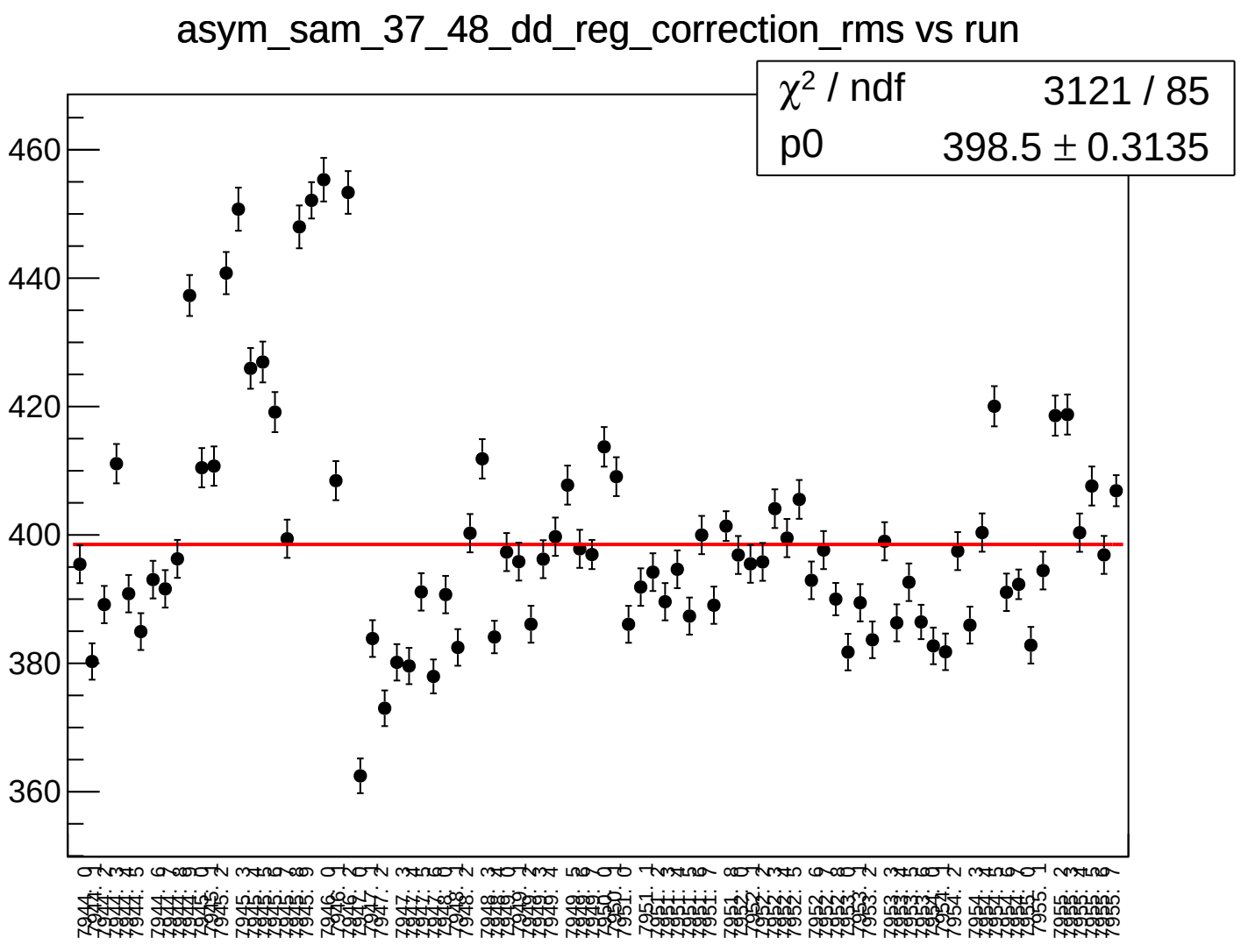

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 91.13 / 85
p0 −66.26 ± 71.72
pull
Entries 86
Mean −813.5
Std Dev 0

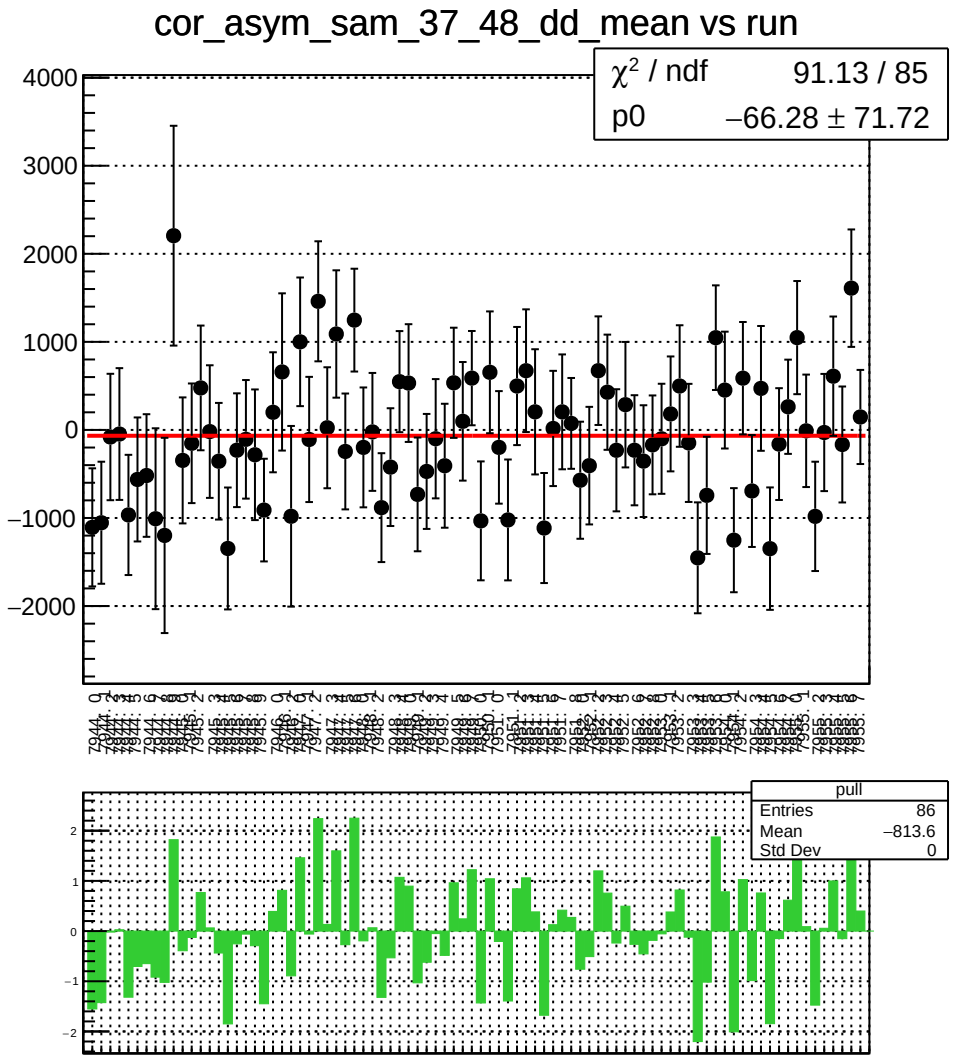

pull1D
Entries 86
Mean −0.004457
Std Dev 1.029

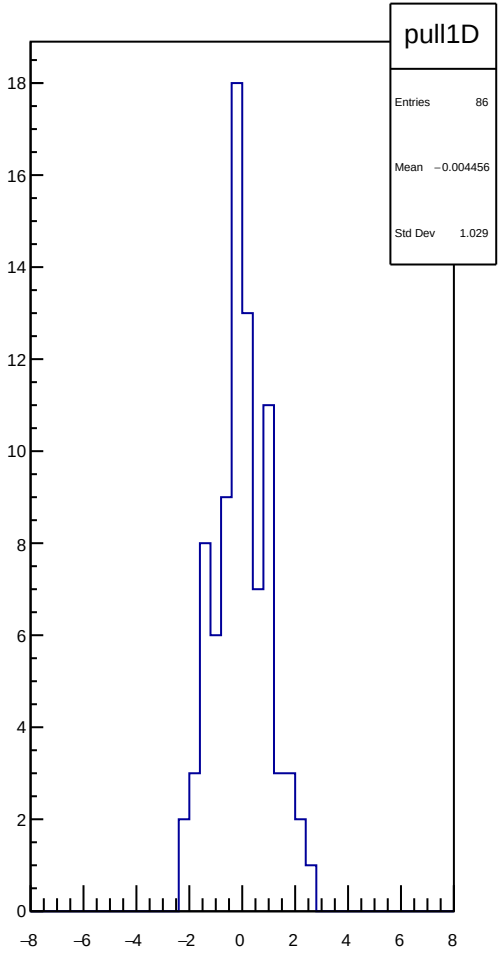

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.6e+04 / 85
p0 64.22 ± 0.05072
120
110
100
90
80
70
60
50

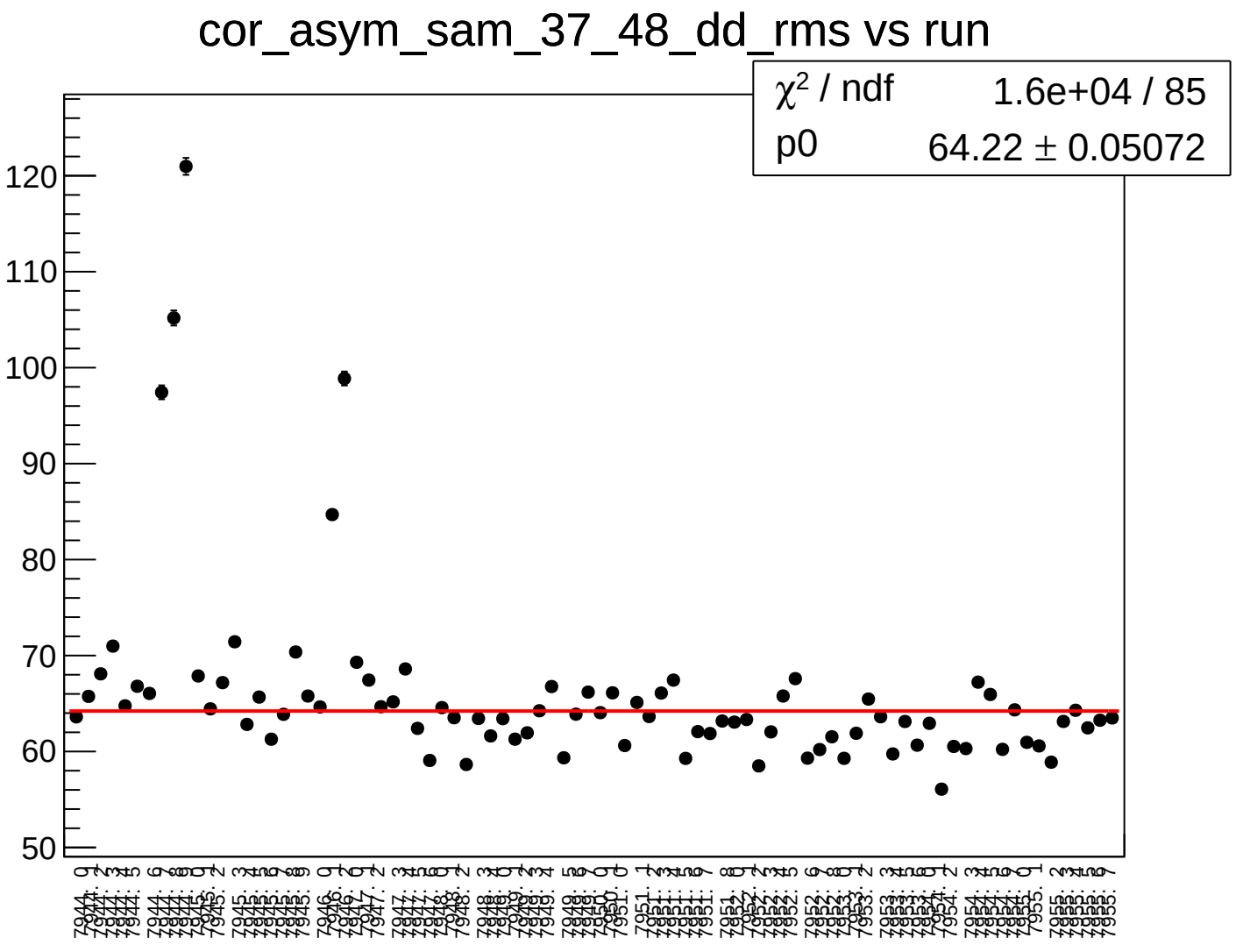

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 77.67 / 85
p0 781.4 ± 443.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −310.9
Std Dev 0
2
1
0
−1
−2

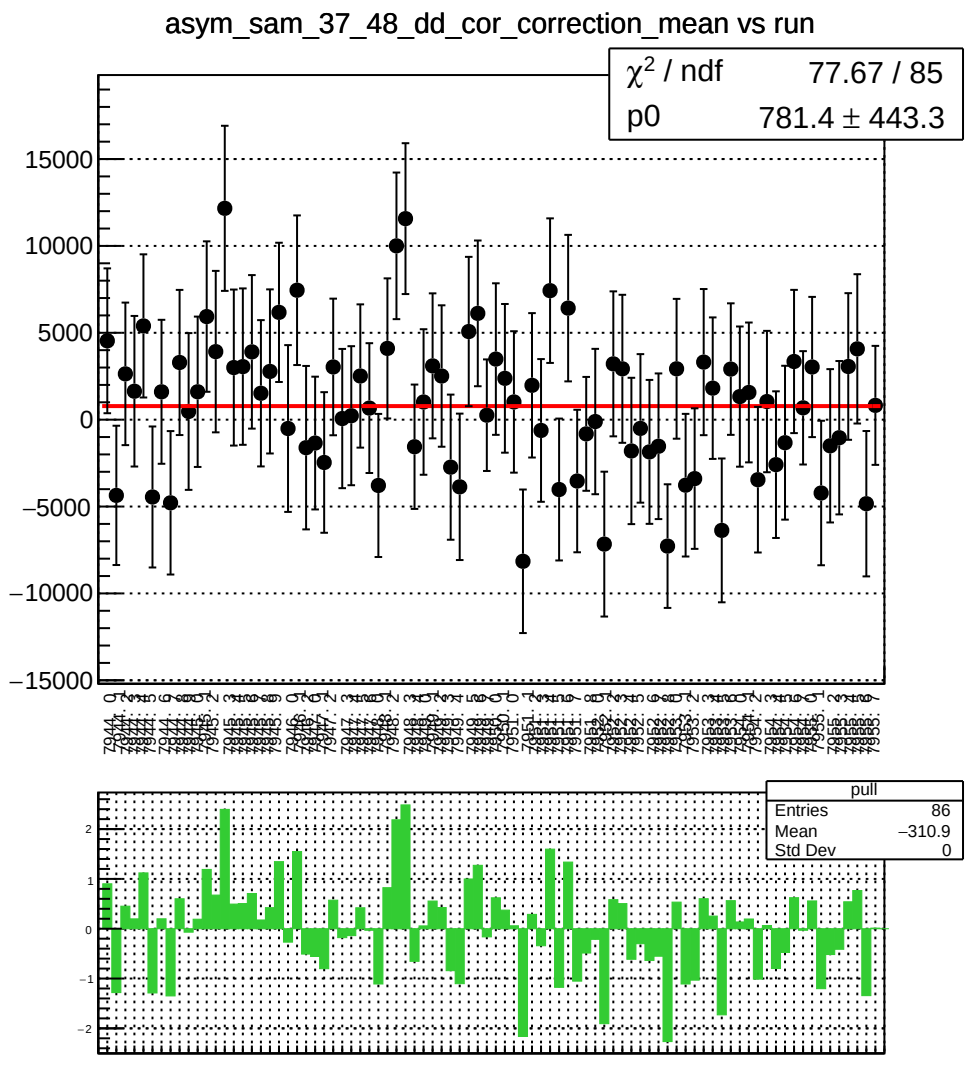

pull1D
Entries 86
Mean 0.01644
Std Dev 0.9502
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

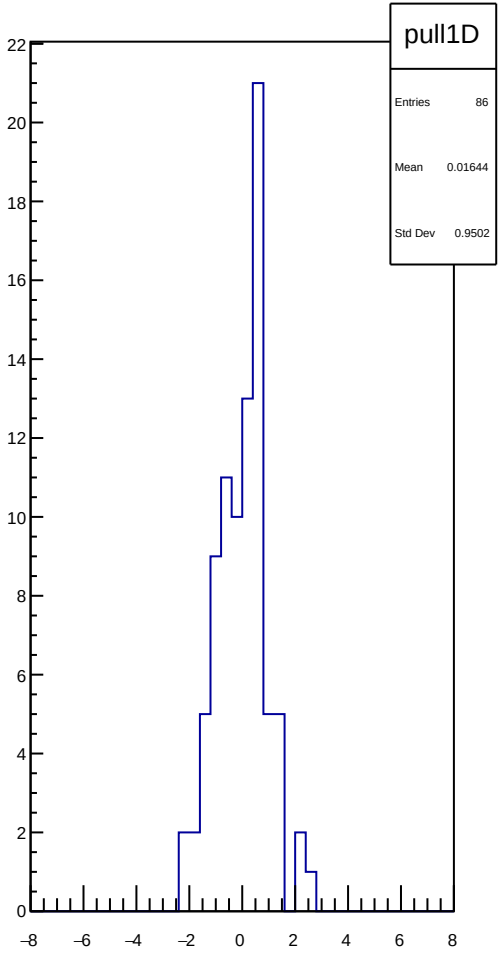

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 3121 / 85
p0 398.5 ± 0.3135
460
440
420
400
380
360

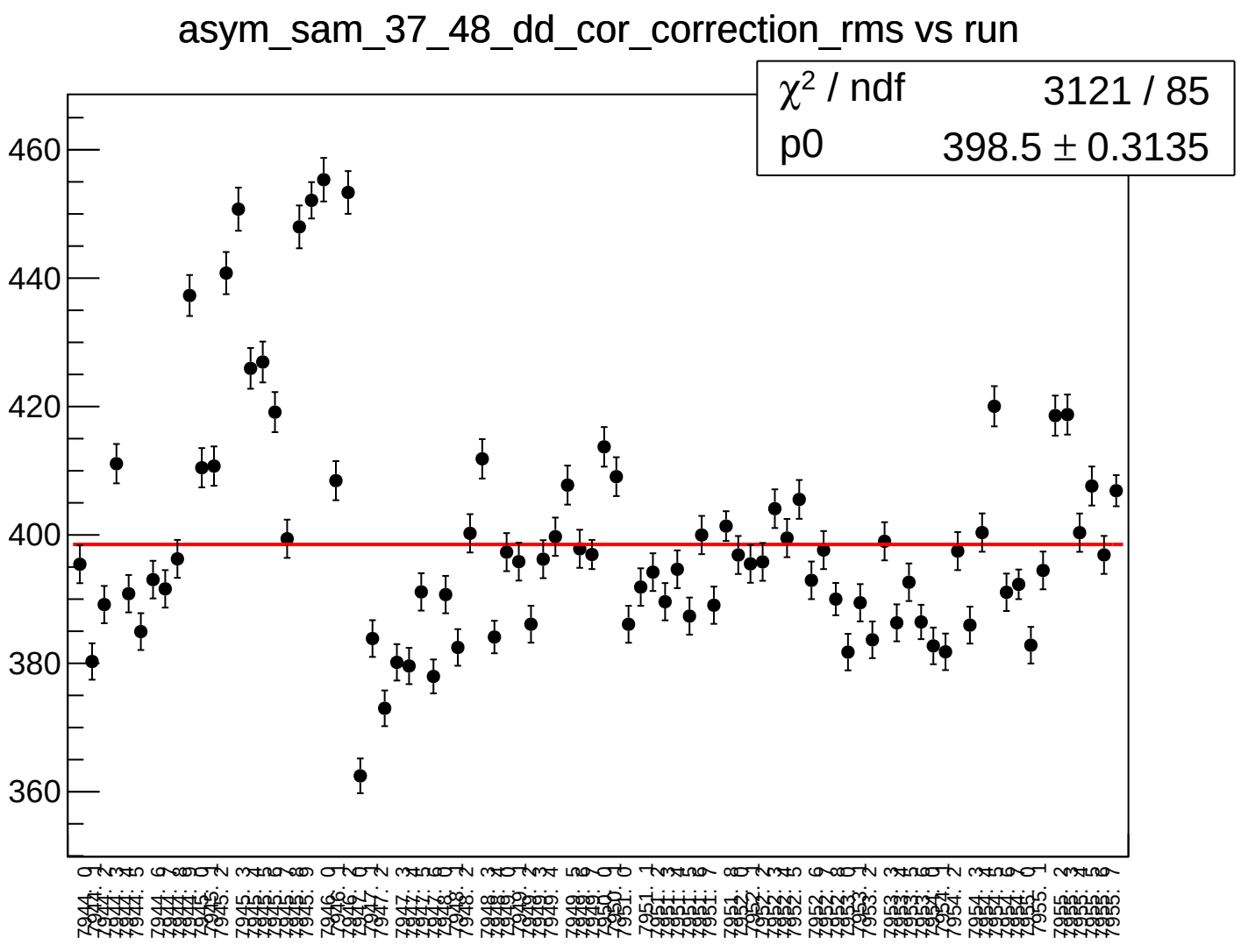

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 91.13 / 85
p0 −66.28 ± 71.72
pull
Entries 86
Mean −813.6
Std Dev 0

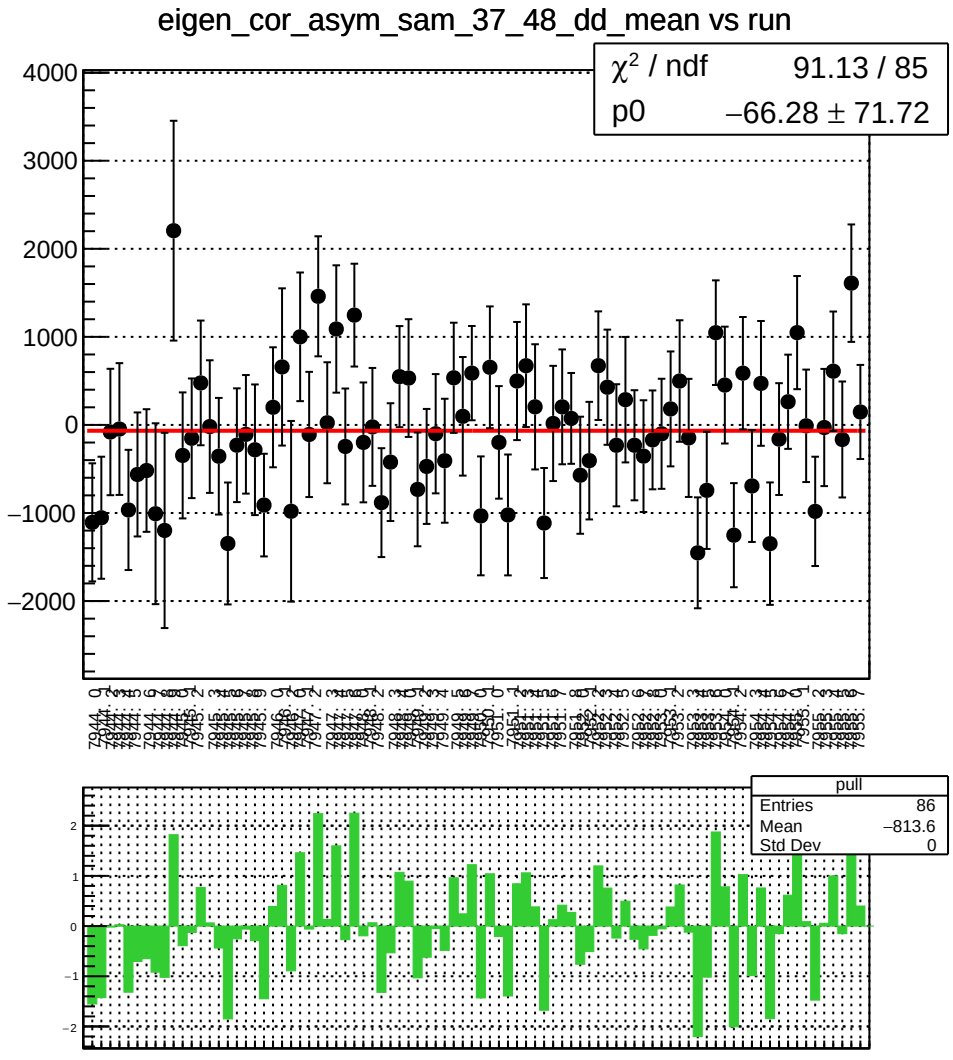

pull1D
Entries 86
Mean −0.004456
Std Dev 1.029

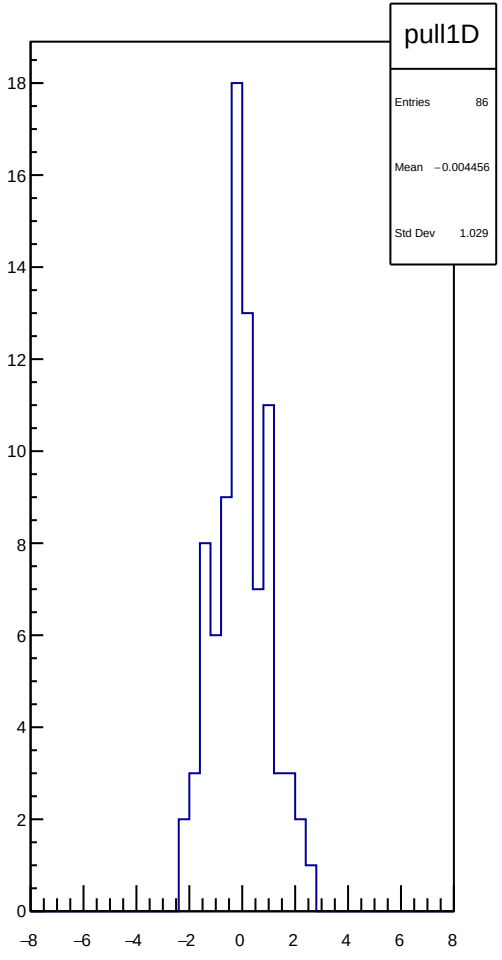

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.6e+04 / 85
p0 64.22 ± 0.05072
120
110
100
90
80
70
60
50

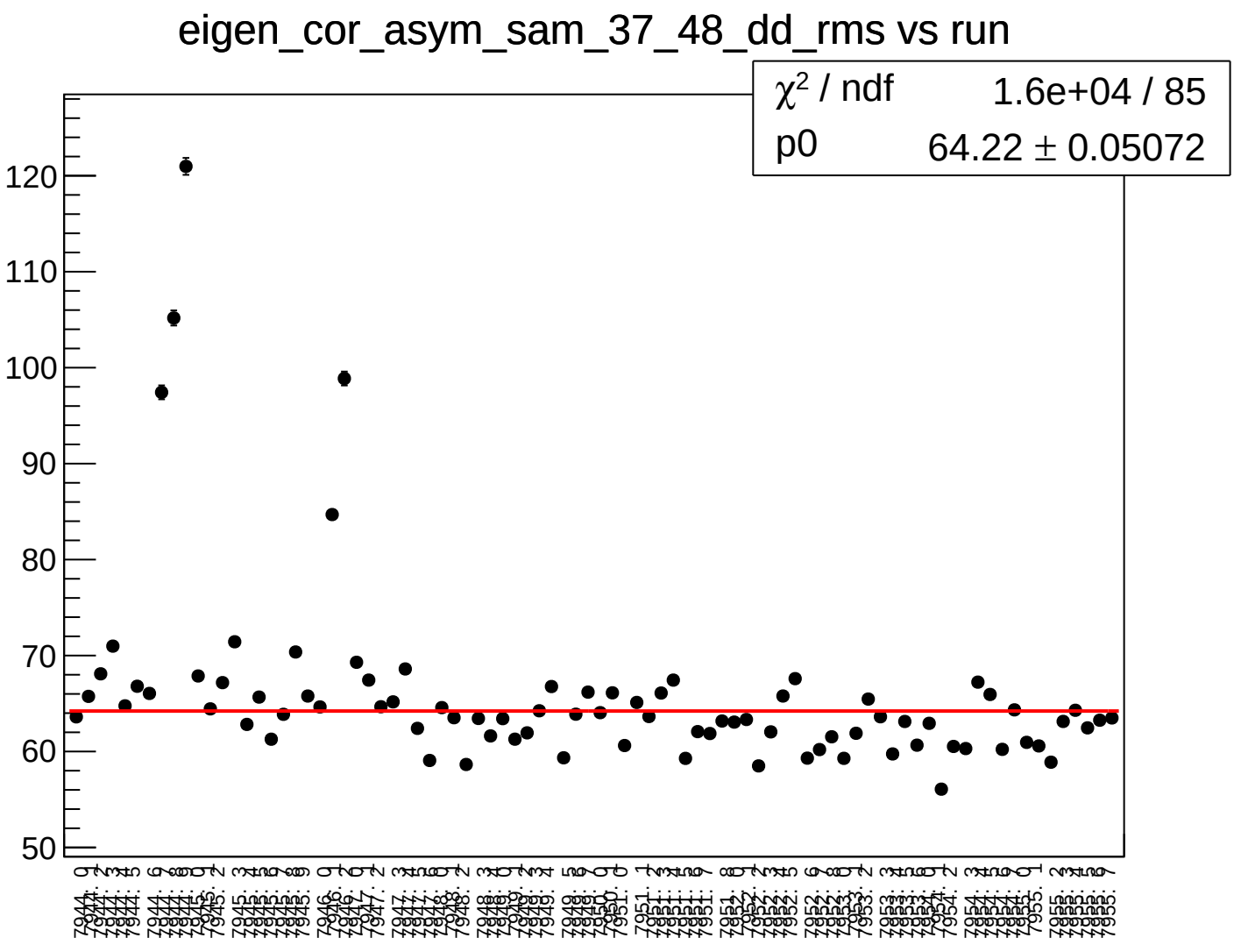

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 77.67 / 85
p0 781.4 ± 443.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −310.9
Std Dev 0
2
1
0
−1
−2

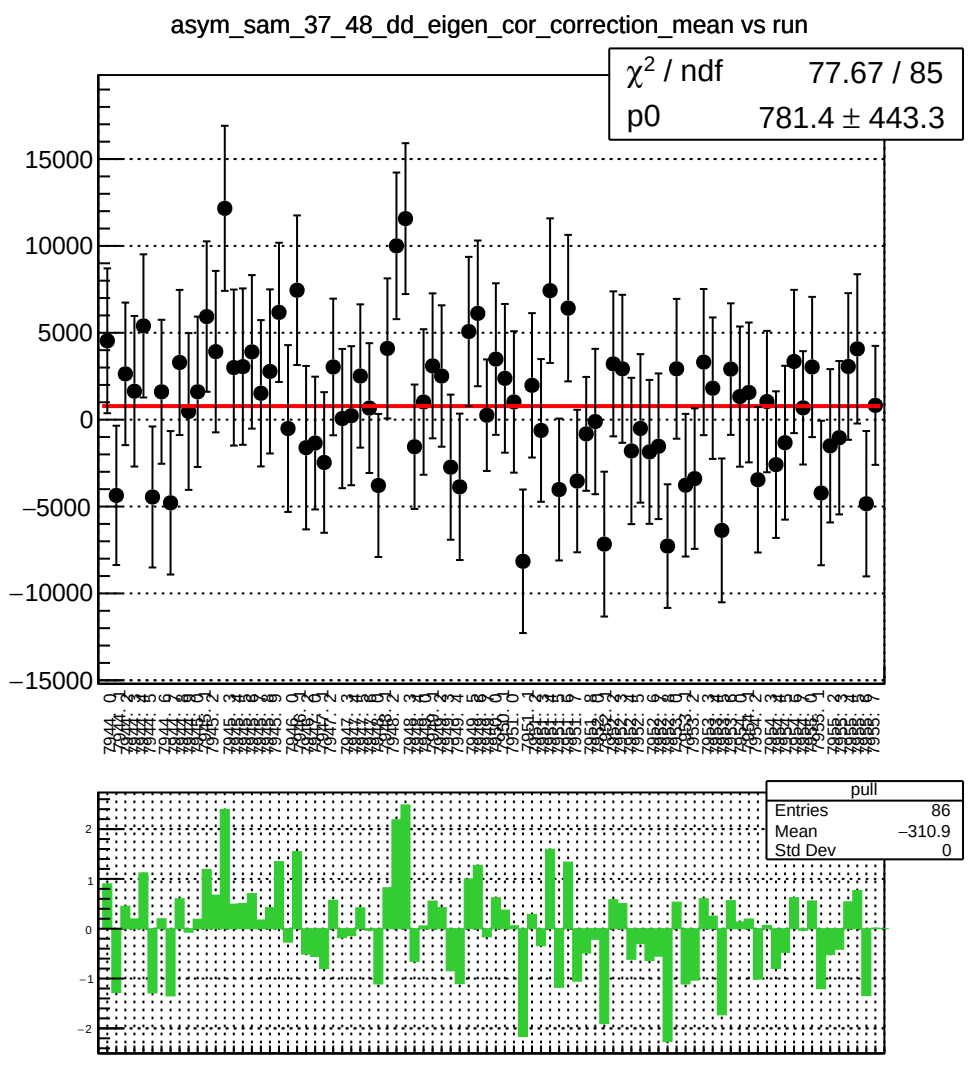

pull1D
Entries 86
Mean 0.01644
Std Dev 0.9502
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

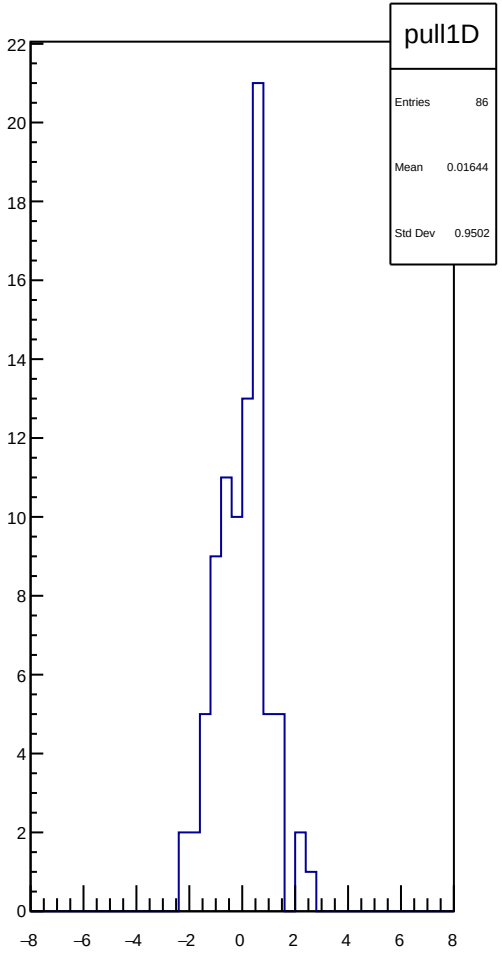

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 3121 / 85
p0 398.5 ± 0.3135
460
440
420
400
380
360

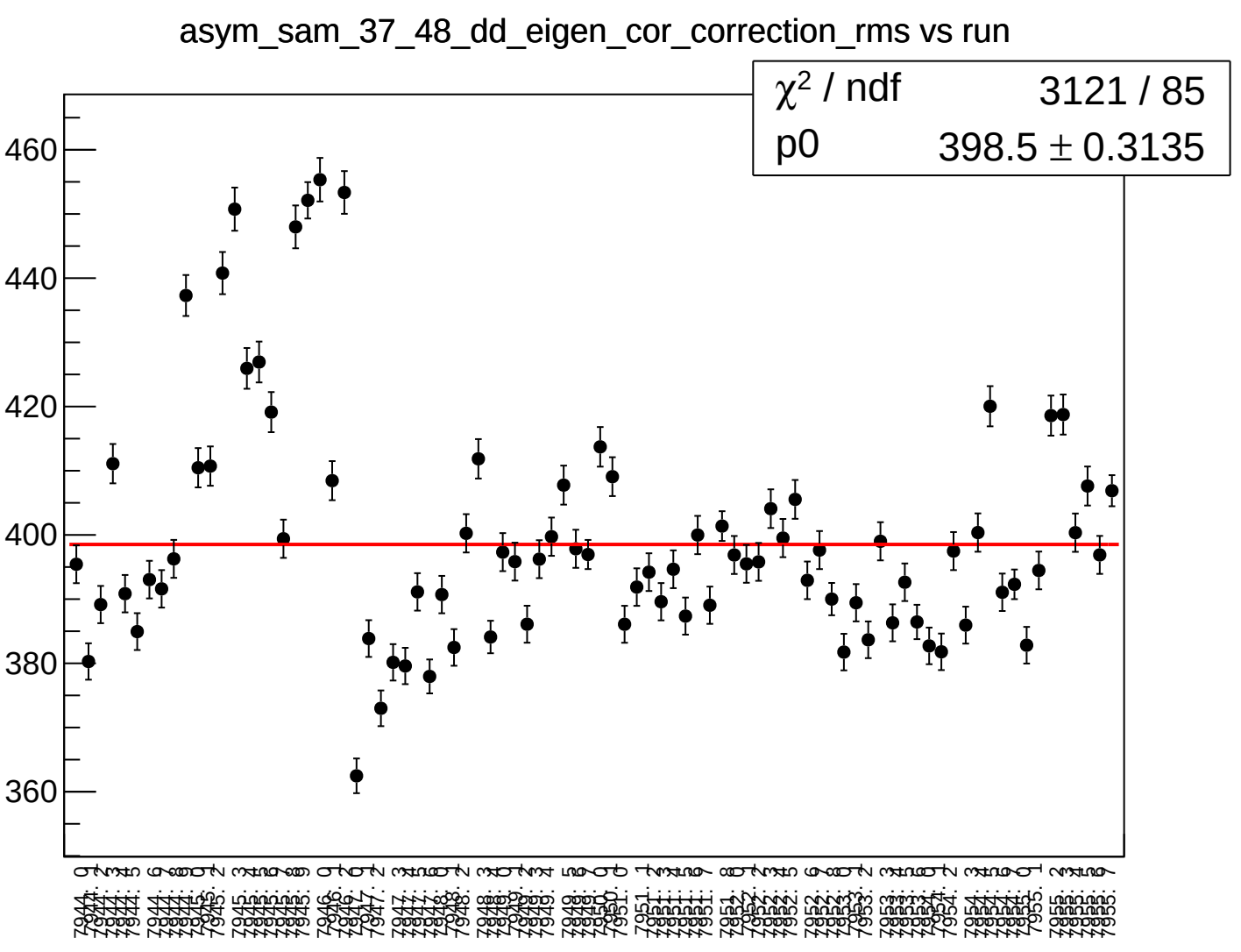

eigen_cor_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 91.13 / 85
p0 −66.28 ± 71.72
pull
Entries 86
Mean −813.6
Std Dev 0

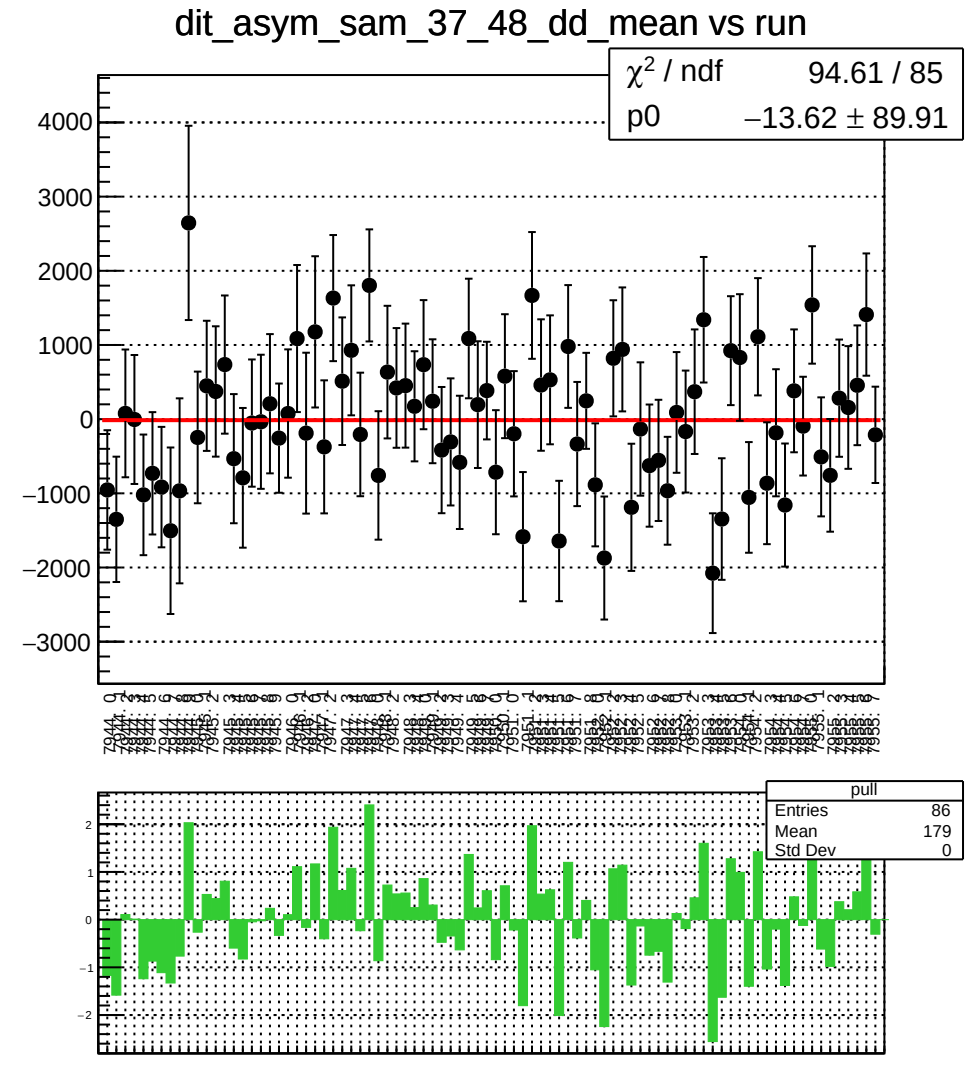

pull1D
Entries 86
Mean −0.004456
Std Dev 1.029

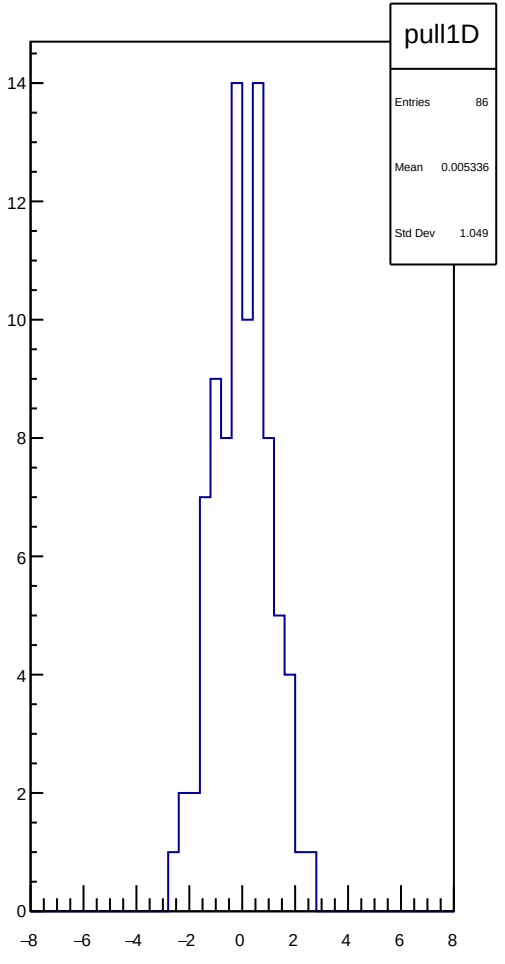

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.6e+04 / 85
p0 64.22 ± 0.05072
120
110
100
90
80
70
60
50

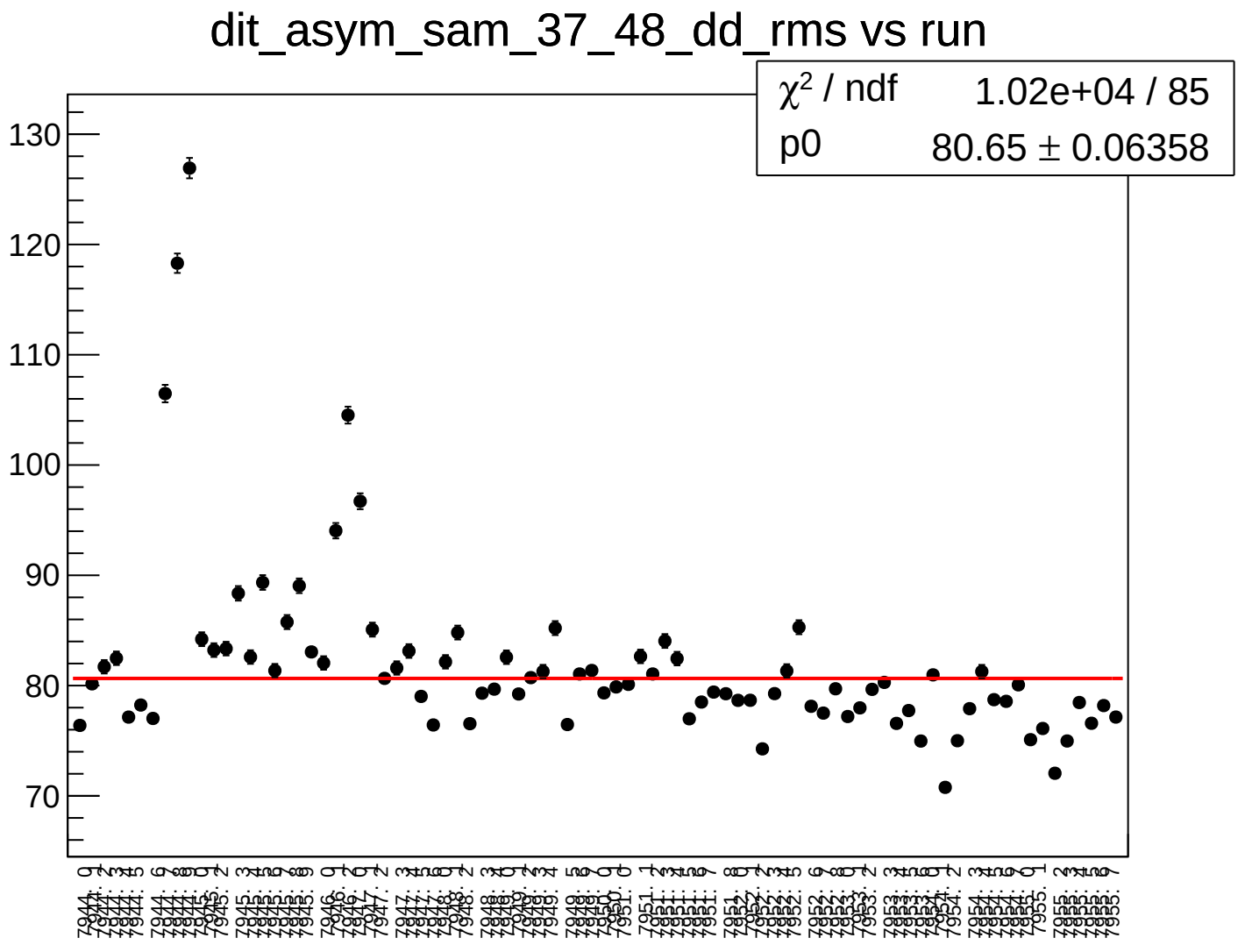

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.67 / 85
p0 781.4 ± 443.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −310.9
Std Dev 0
2
1
0
−1
−2

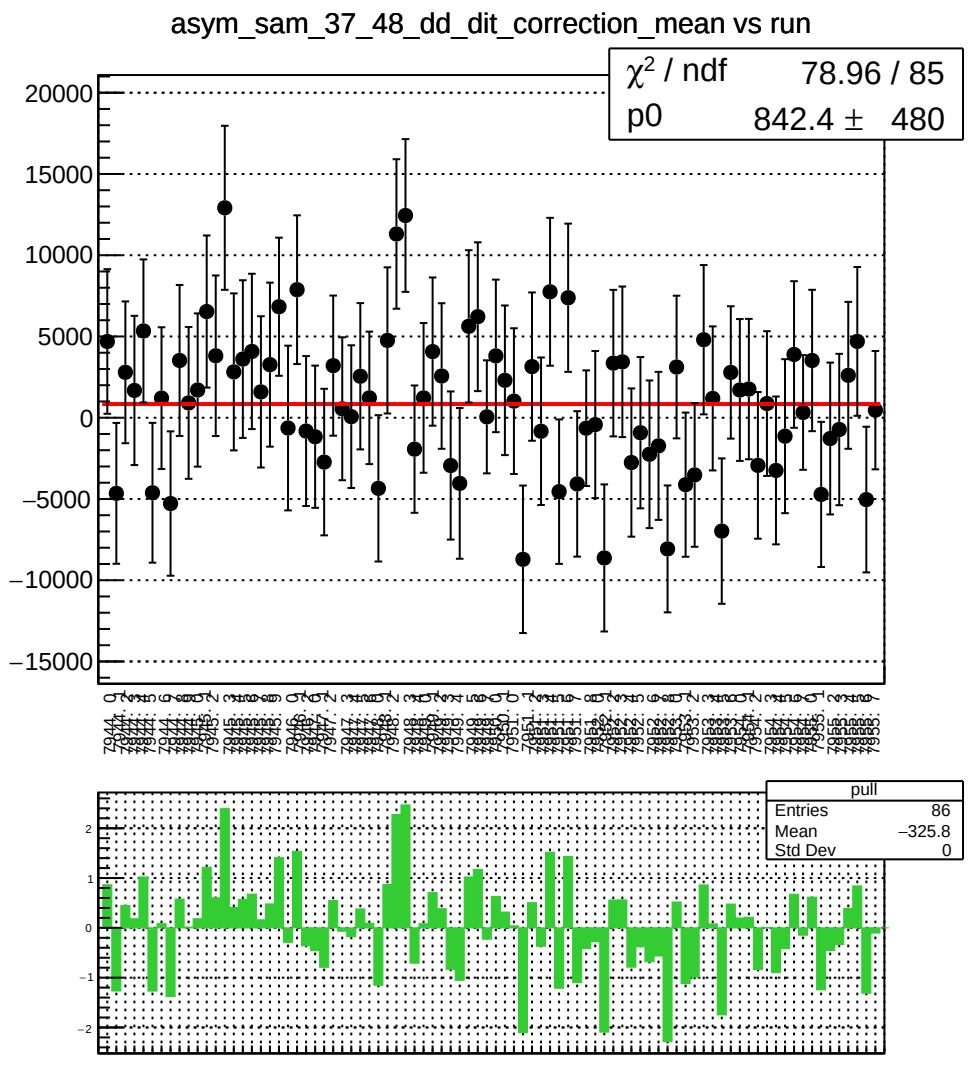

pull1D
Entries 86
Mean 0.01644
Std Dev 0.9502
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

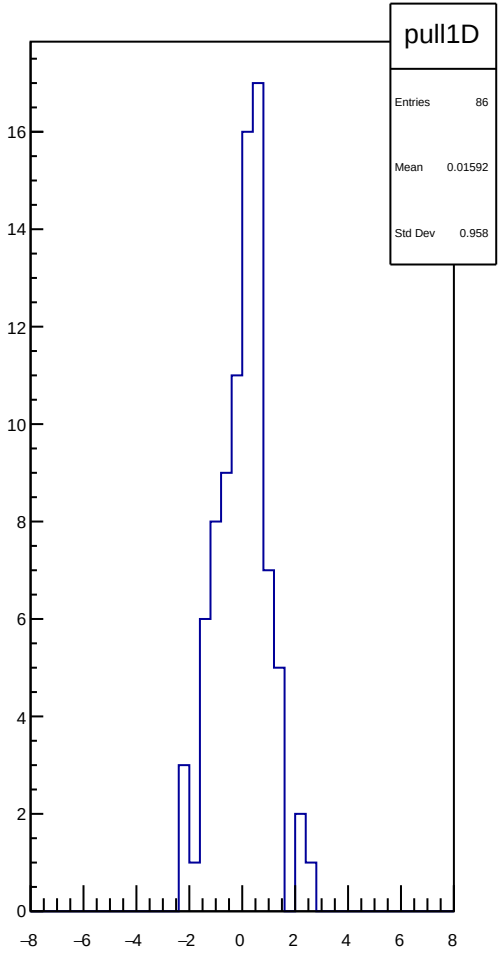

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3121 / 85
p0 398.5 ± 0.3135
460
440
420
400
380
360

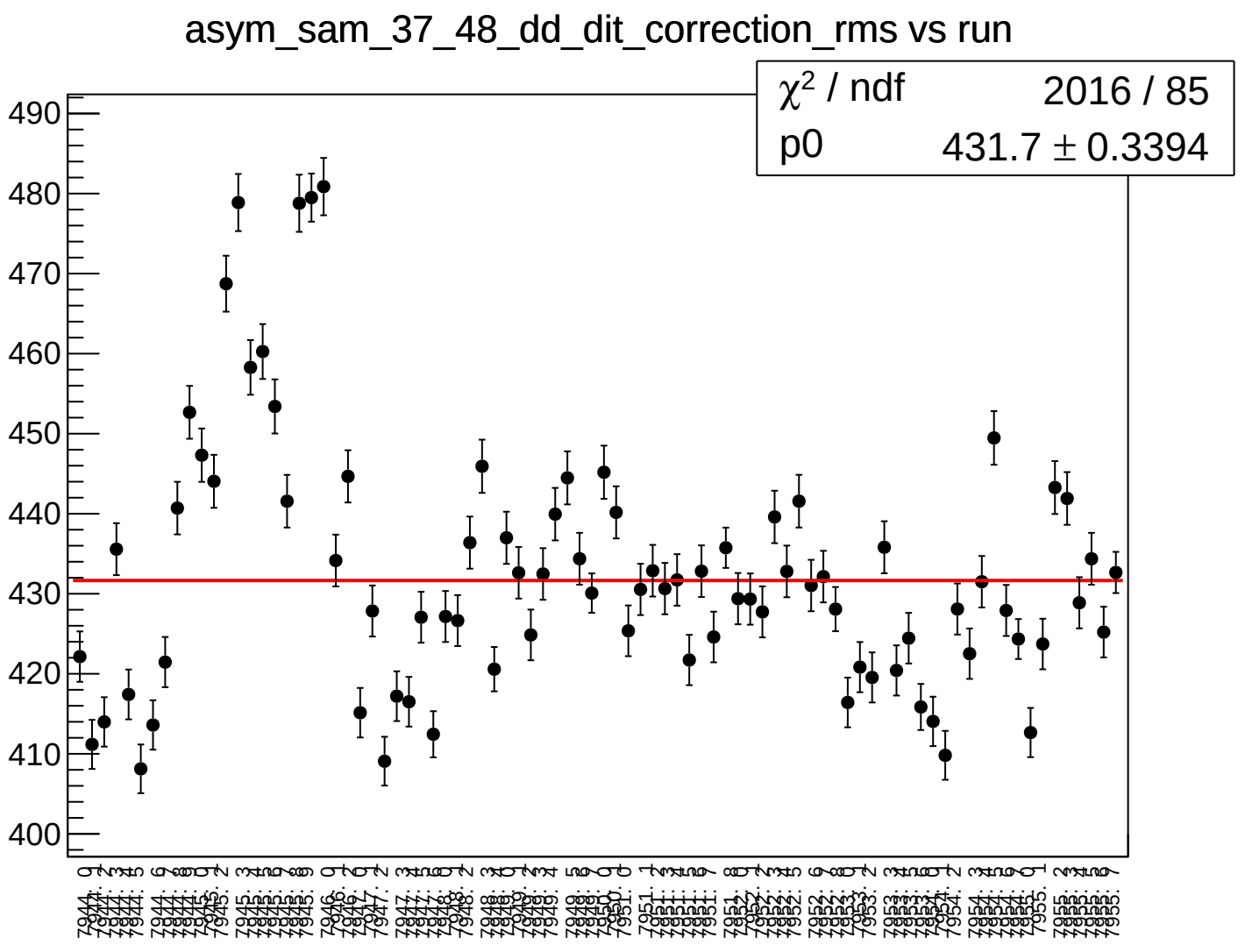

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 94.61 / 85
p0 −13.62 ± 89.91
pull
Entries 86
Mean 179
Std Dev 0

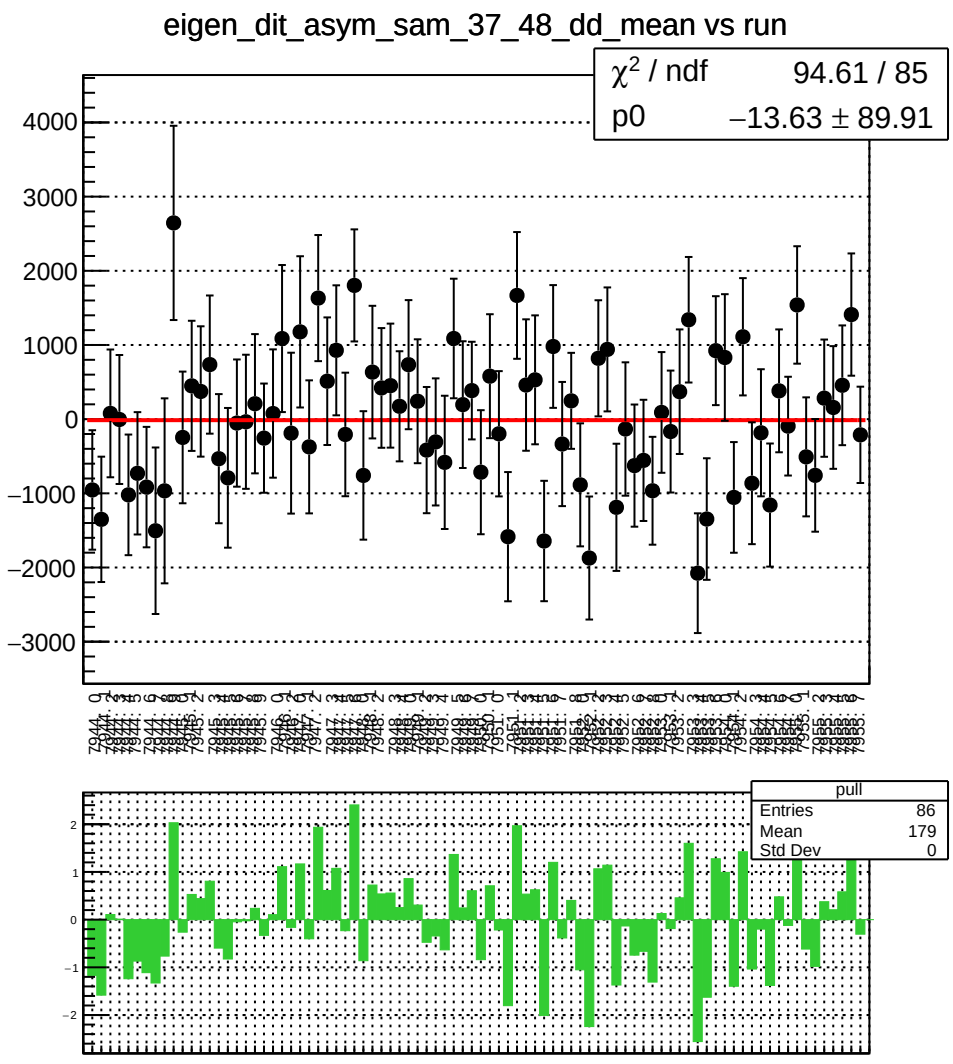

pull1D
Entries 86
Mean 0.005336
Std Dev 1.049

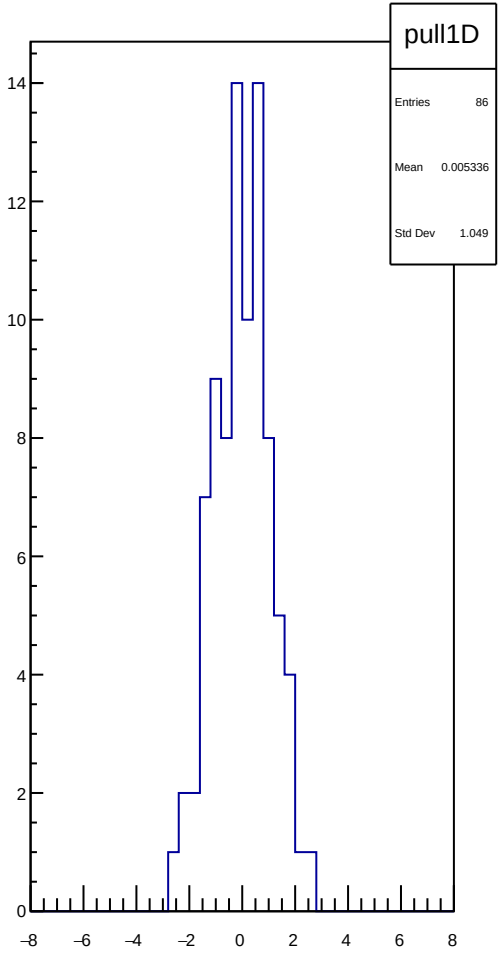

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.02e+04 / 85
p0 80.65 ± 0.06358
130
120
110
100
90
80
70

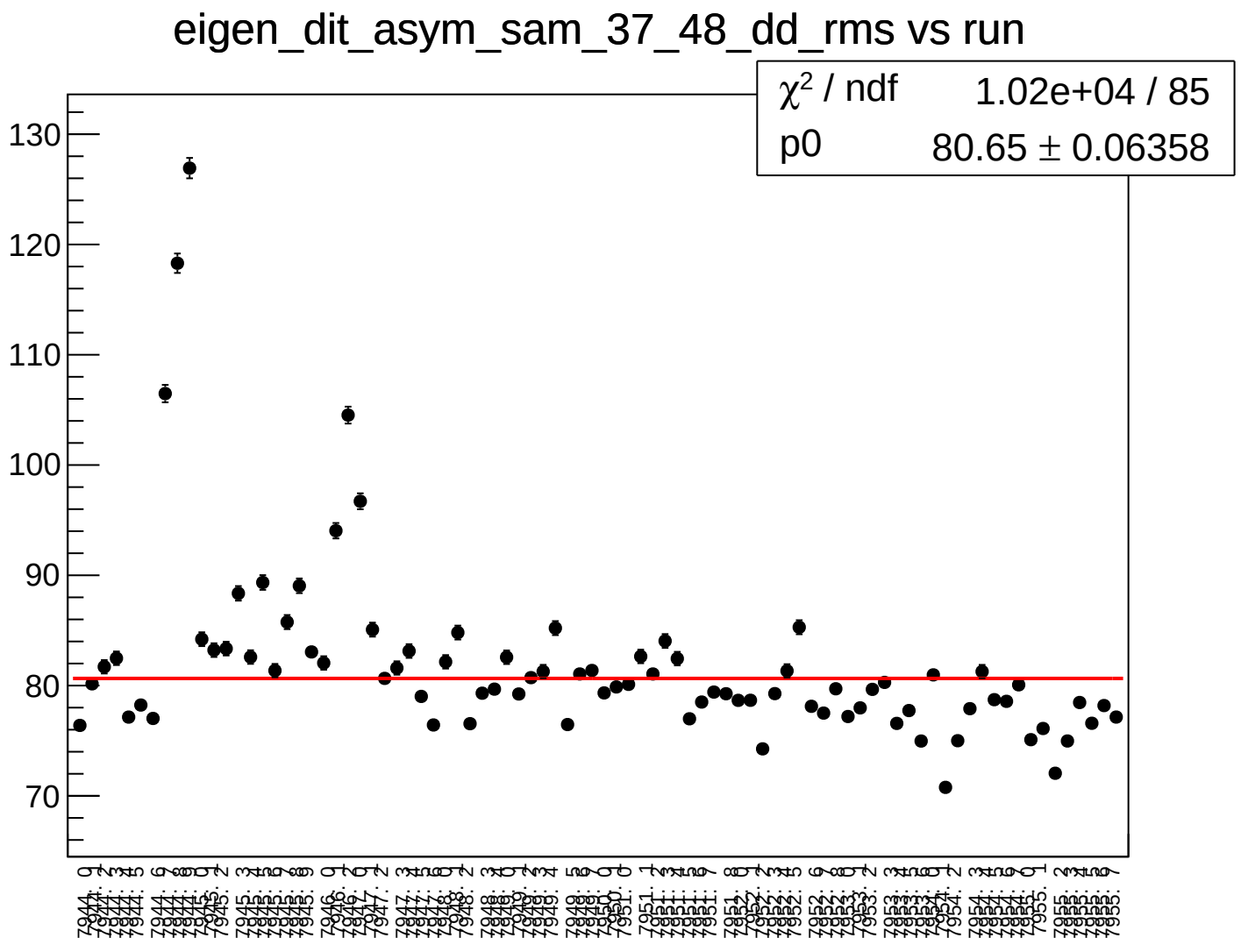

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 78.96 / 85
p0 842.4 ± 480
pull
Entries 86
Mean −325.8
Std Dev 0

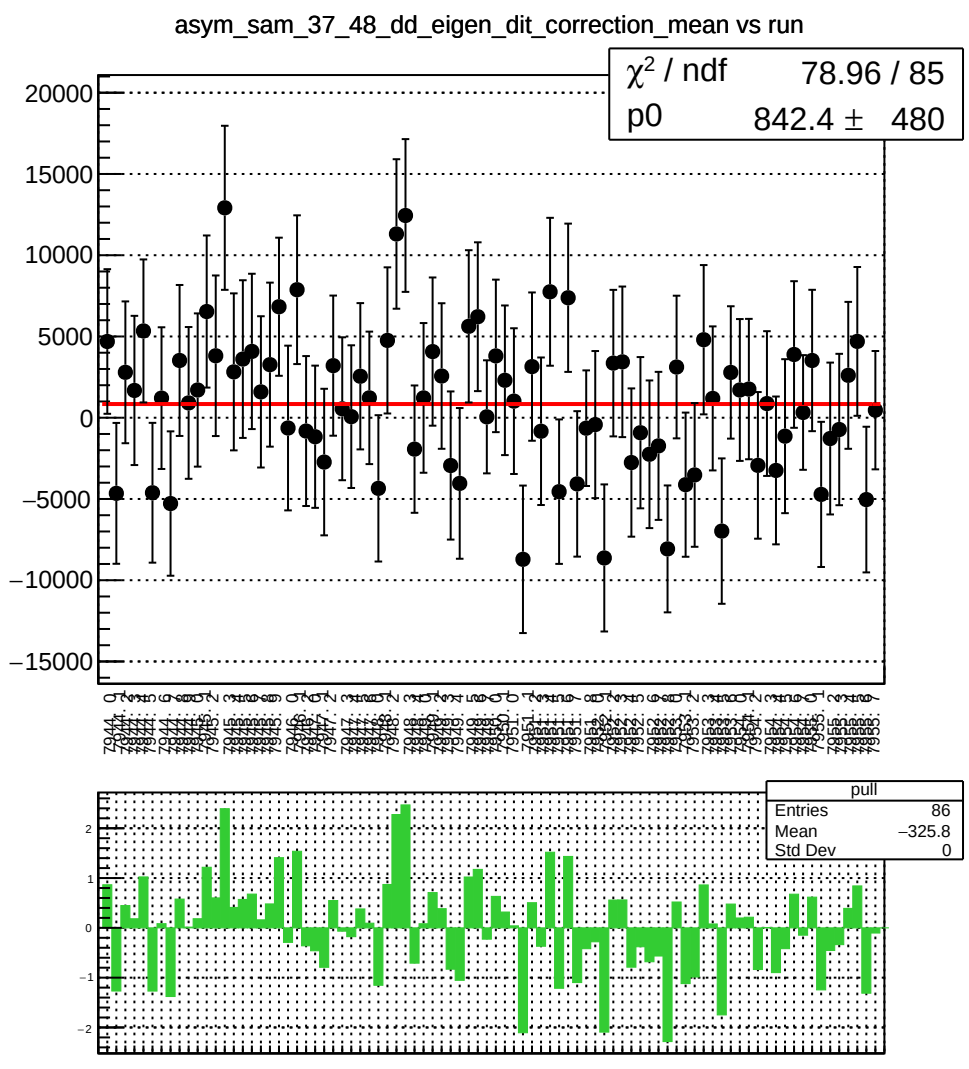

pull1D
Entries 86
Mean 0.01592
Std Dev 0.958

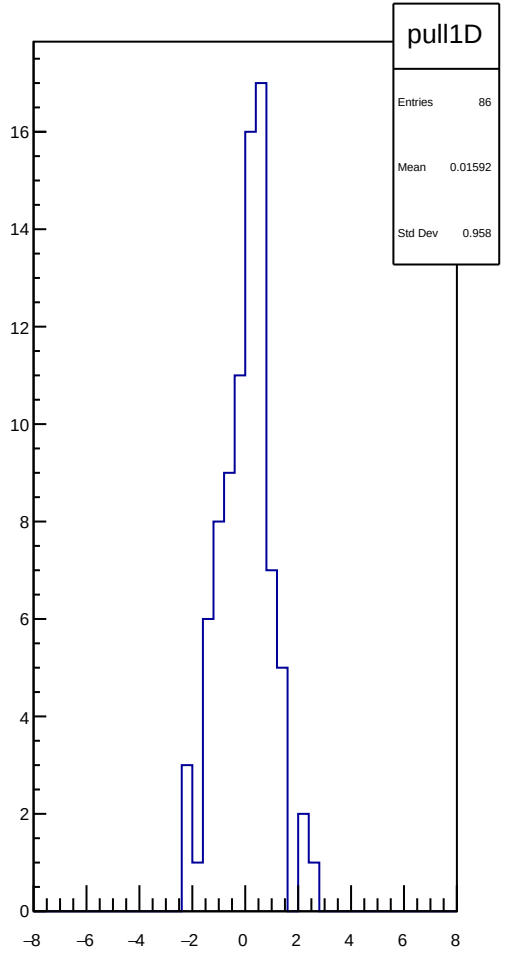

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2016 / 85
p0 431.7 ± 0.3394
490
480
470
460
450
440
430
420
410
400

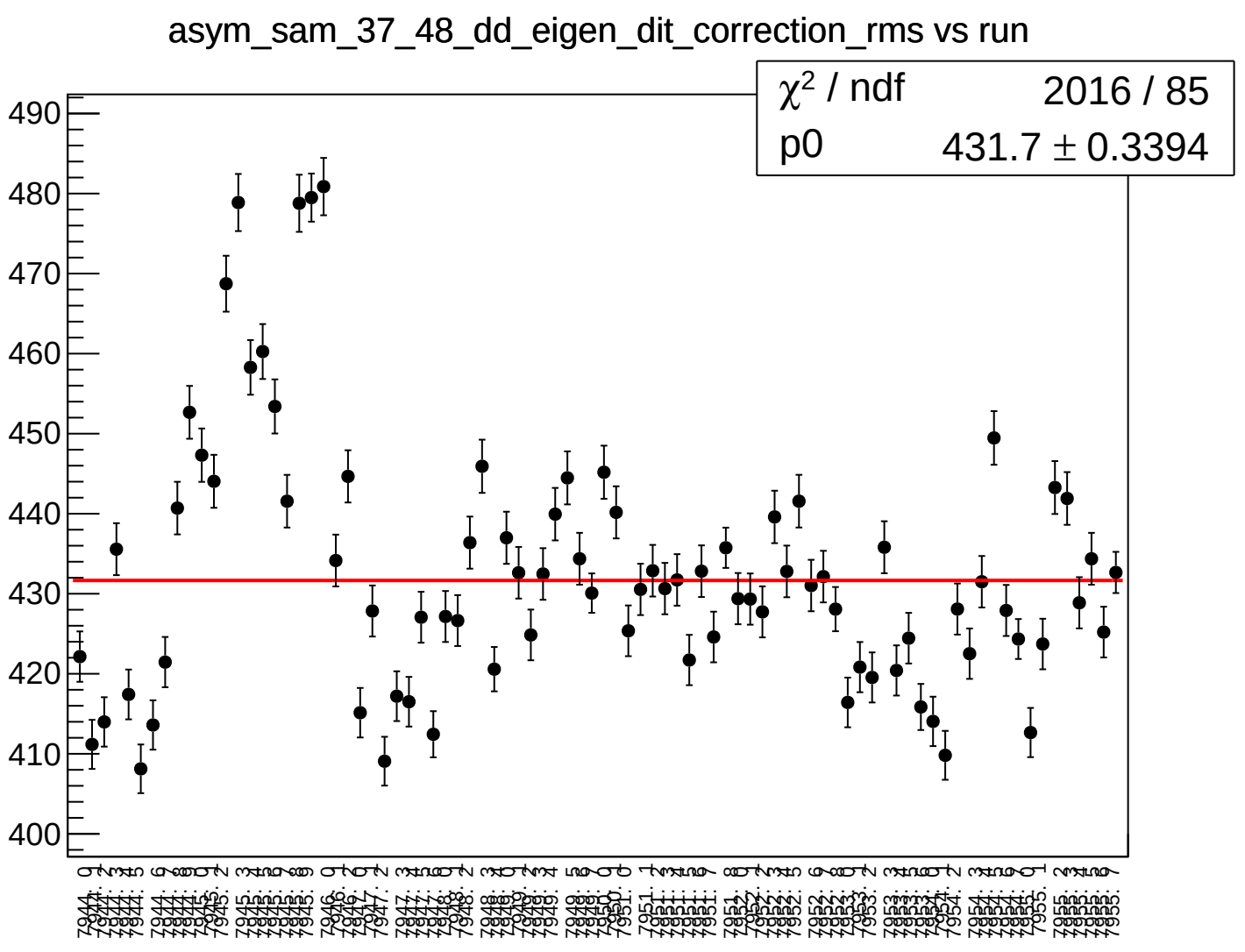

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 94.61 / 85
p0 −13.63 ± 89.91
pull
Entries 86
Mean 179
Std Dev 0

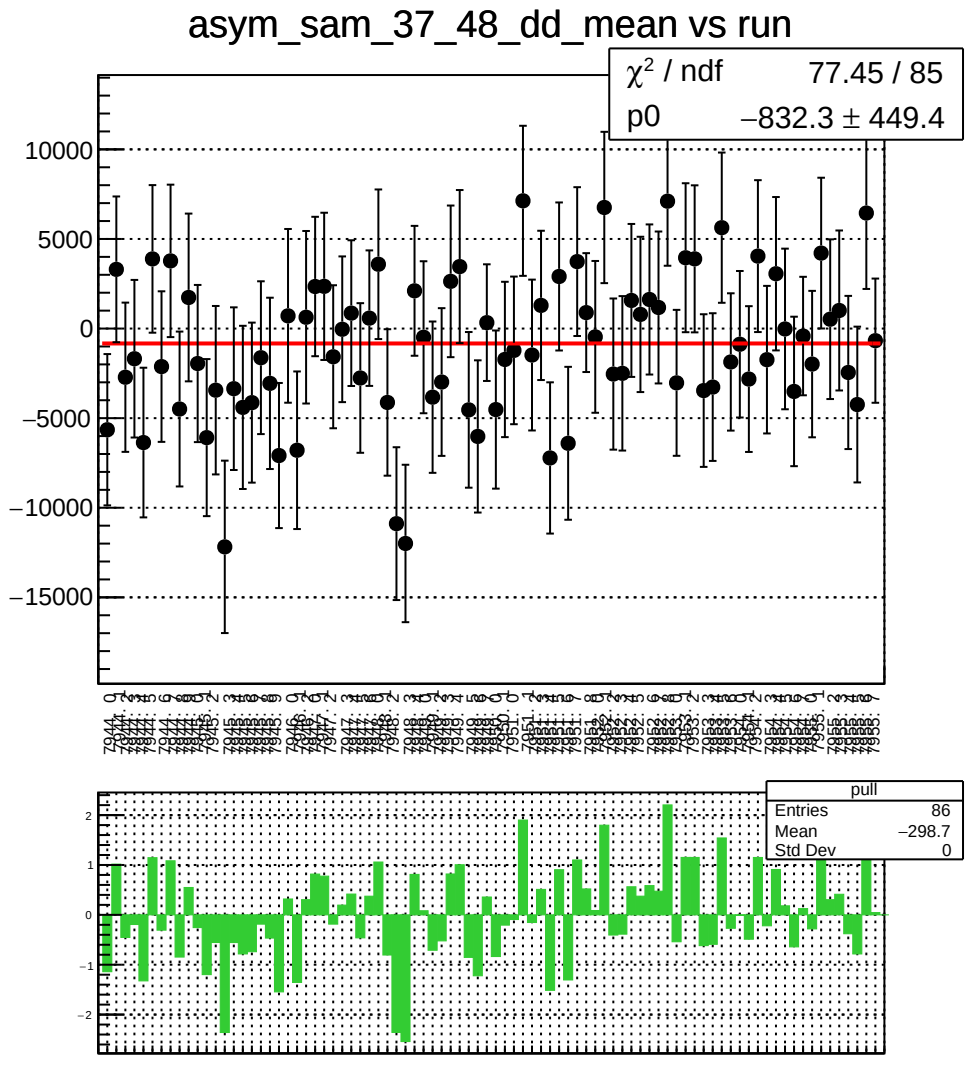

pull1D
Entries 86
Mean 0.005336
Std Dev 1.049

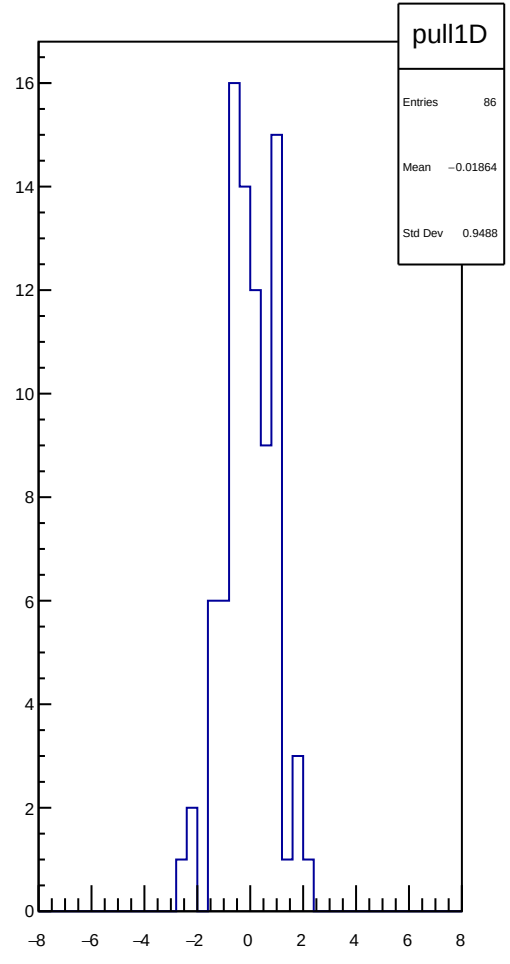

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.02e+04 / 85
p0 80.65 ± 0.06358
130
120
110
100
90
80
70

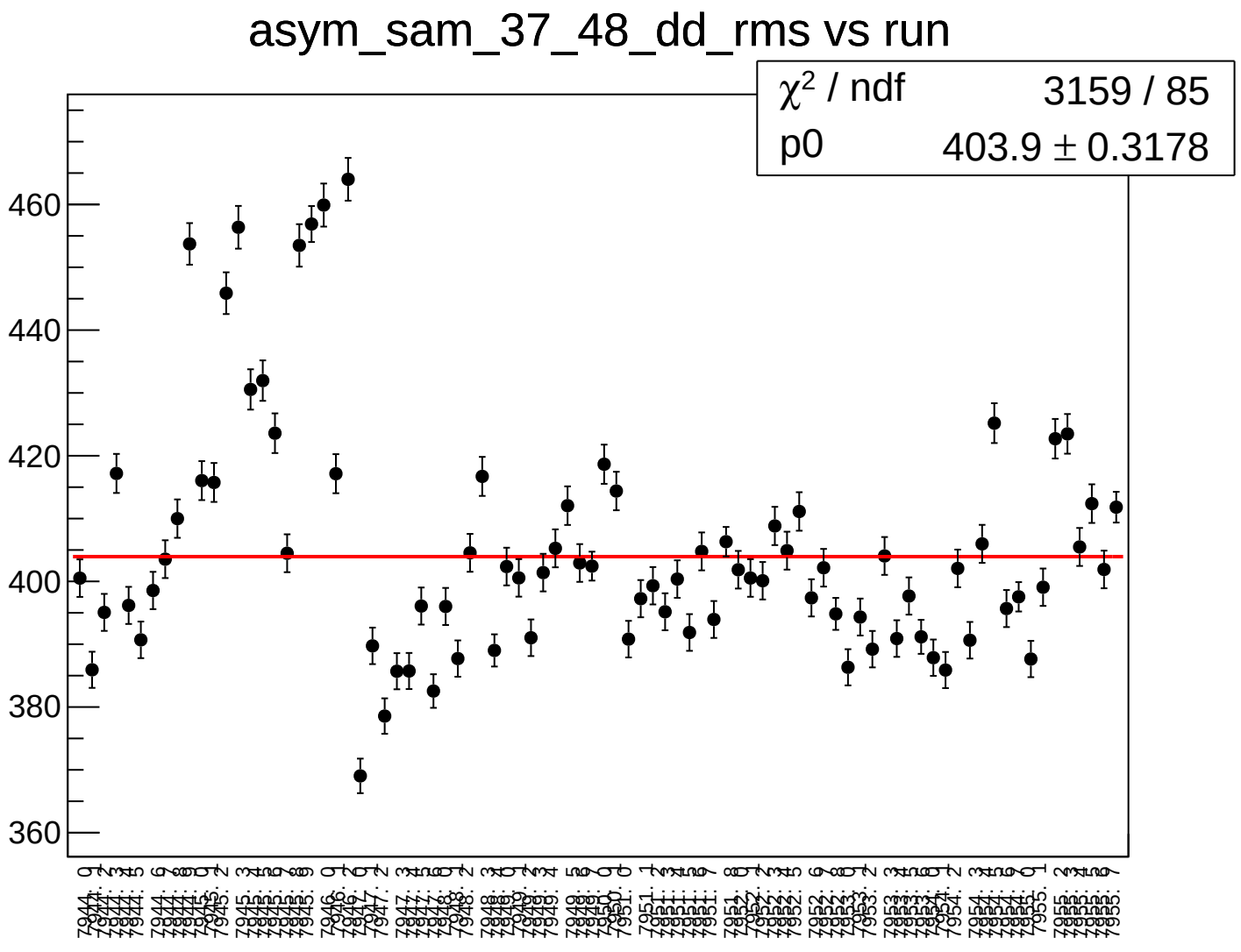

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.96 / 85
p0 842.4 ± 480
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −325.8
Std Dev 0
2
1
0
−1
−2

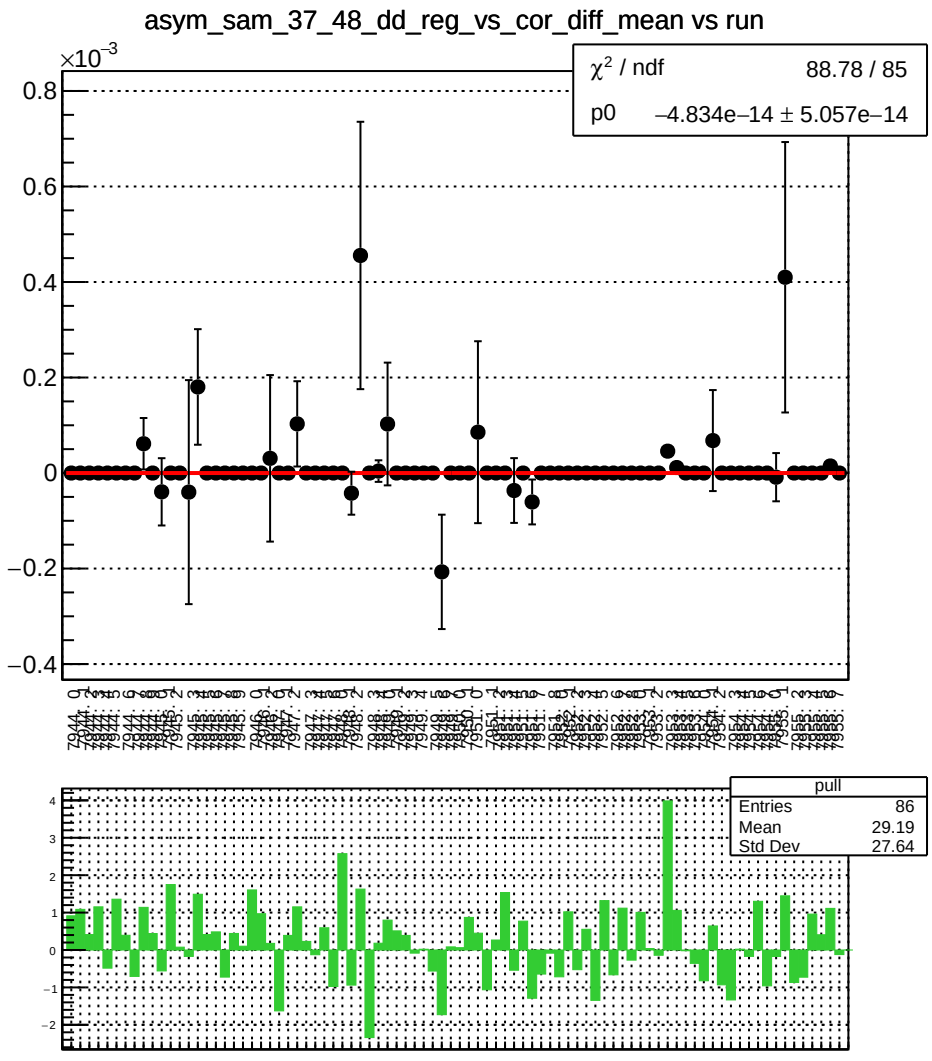

pull1D
Entries 86
Mean 0.01592
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

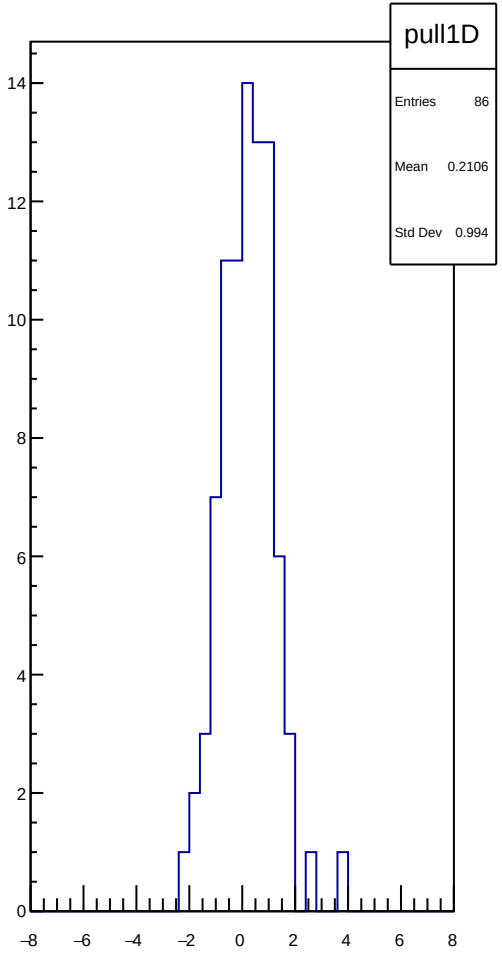

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2016 / 85
p0 431.7 ± 0.3394
490
480
470
460
450
440
430
420
410
400

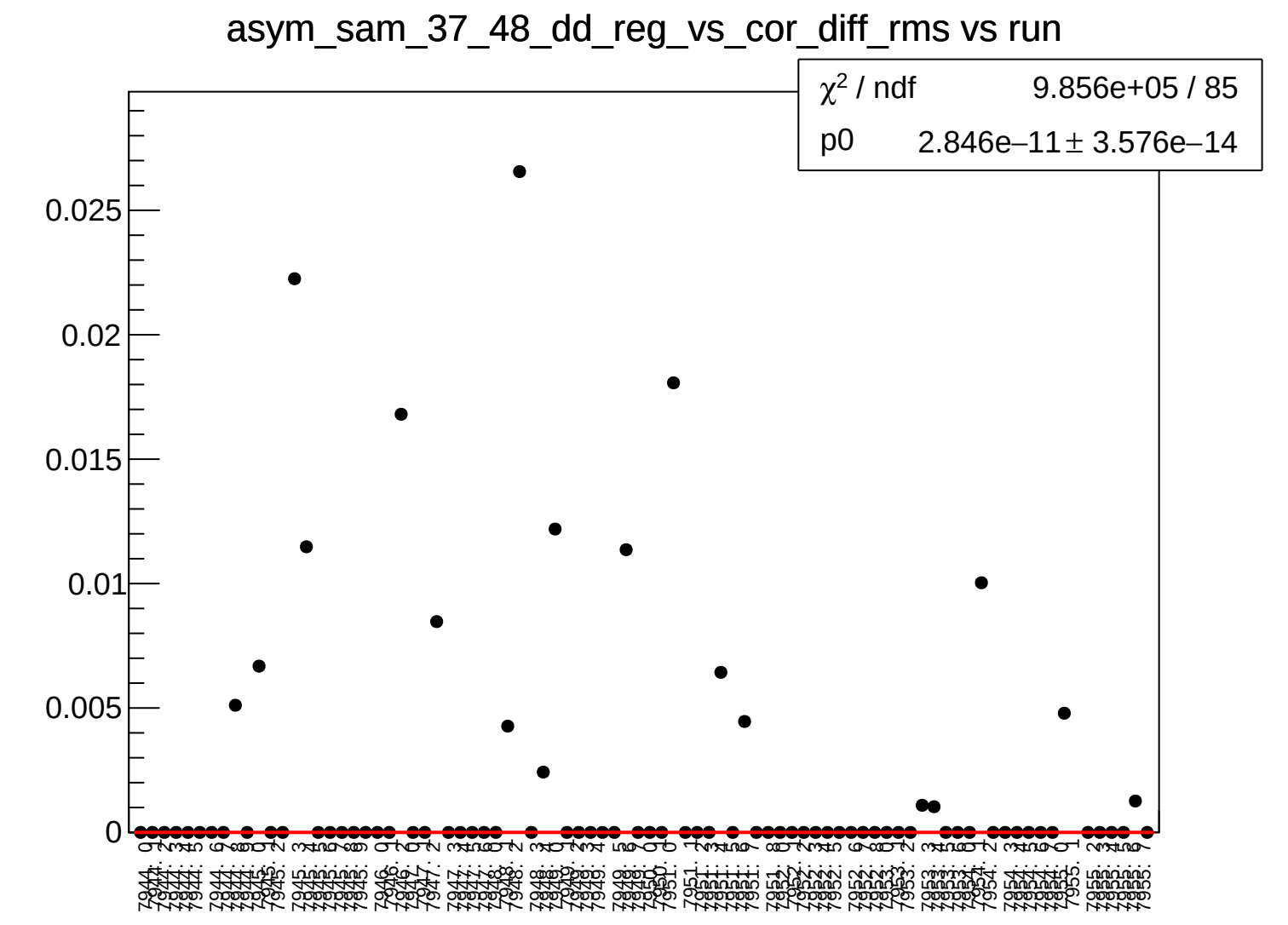

asym_sam_37_48_dd_mean vs run
χ² / ndf 77.45 / 85
p0 −832.3 ± 449.4
pull
Entries 86
Mean −298.7
Std Dev 0

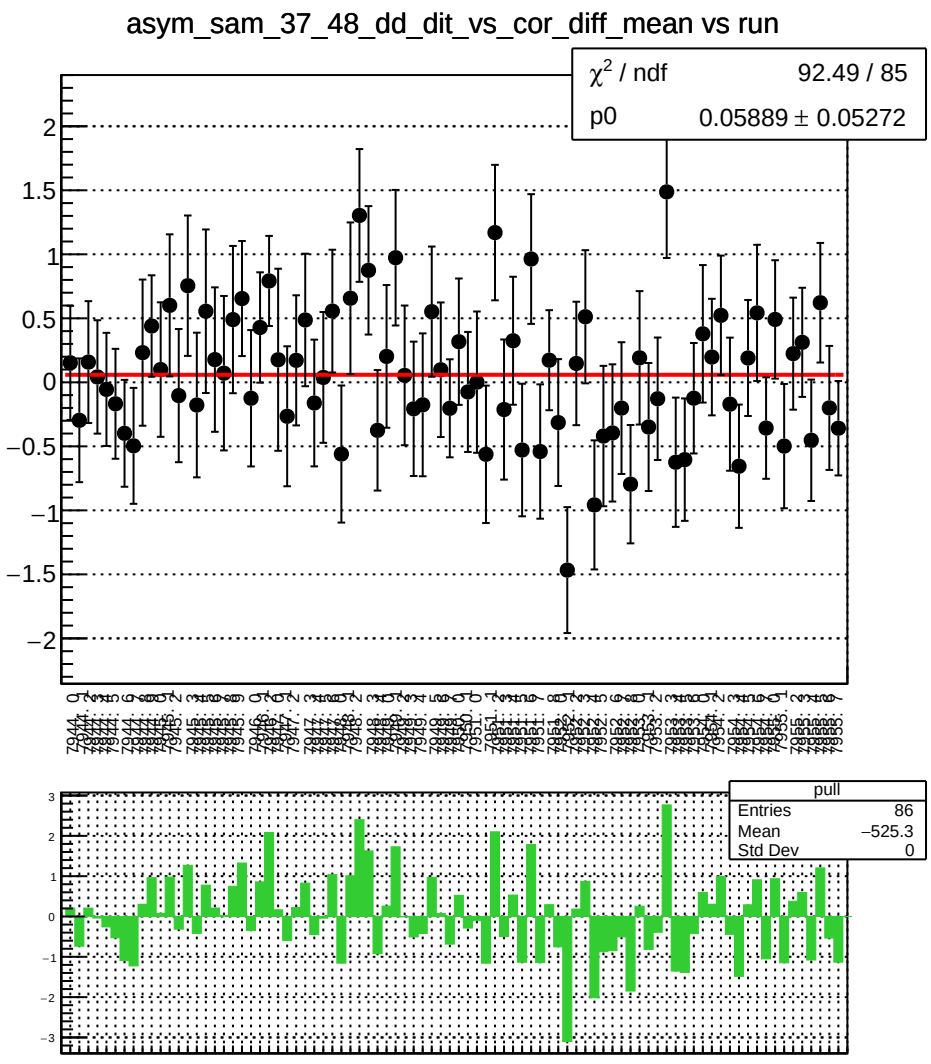

pull1D
Entries 86
Mean −0.01864
Std Dev 0.9488

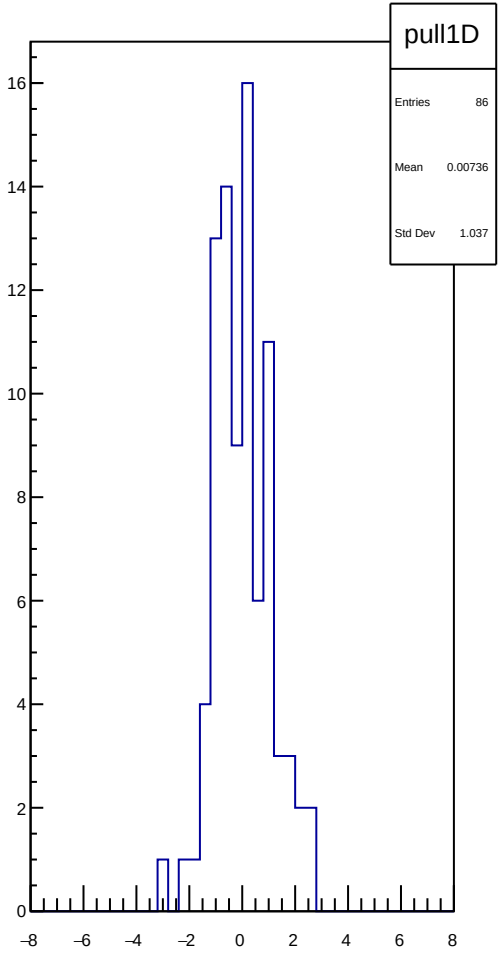

asym_sam_37_48_dd_rms vs run
χ² / ndf 3159 / 85
p0 403.9 ± 0.3178
460
440
420
400
380
360

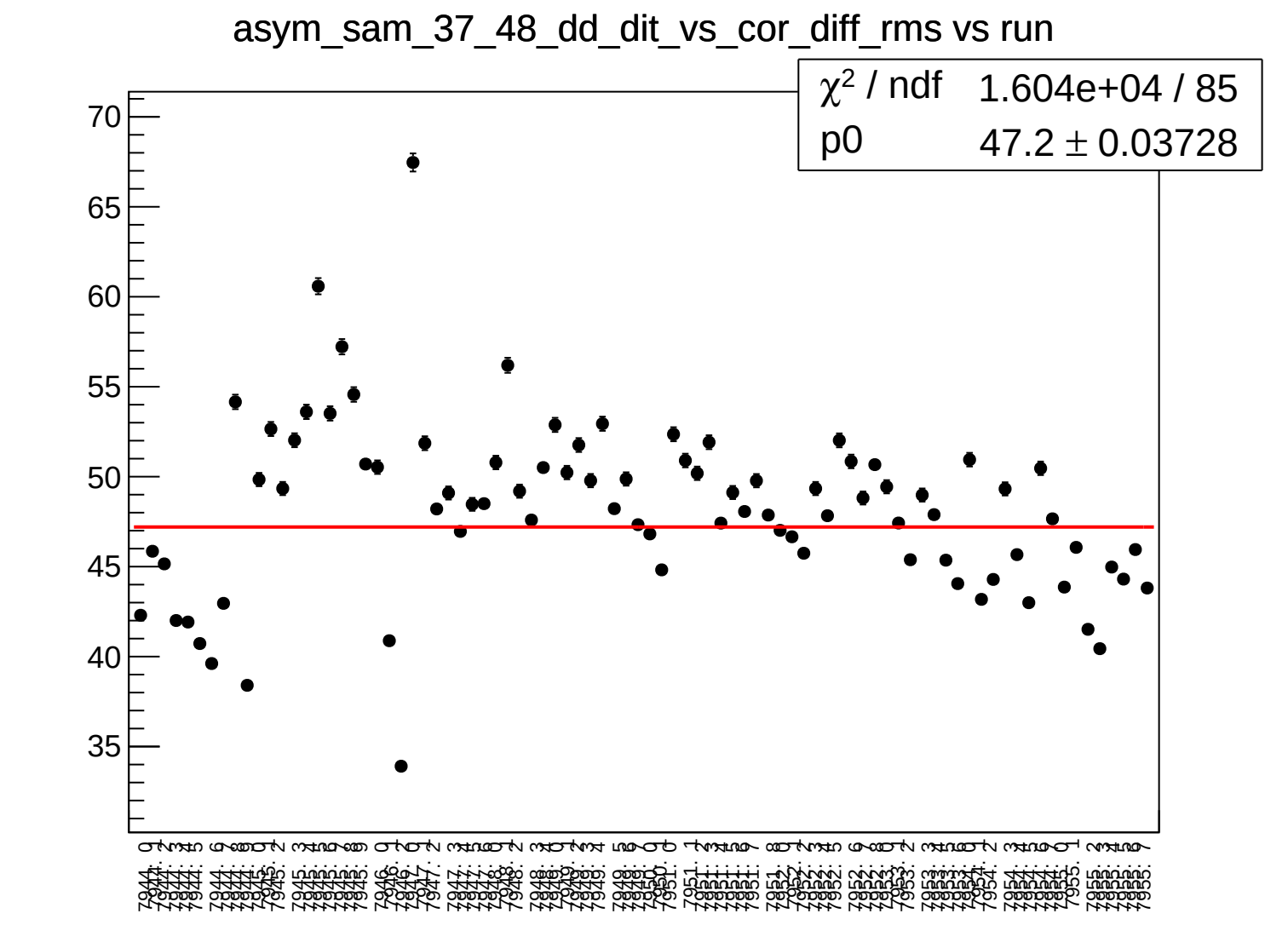

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 88.78 / 85
p0 −4.834e−14 ± 5.057e−14
pull
Entries 86
Mean 29.19
Std Dev 27.64

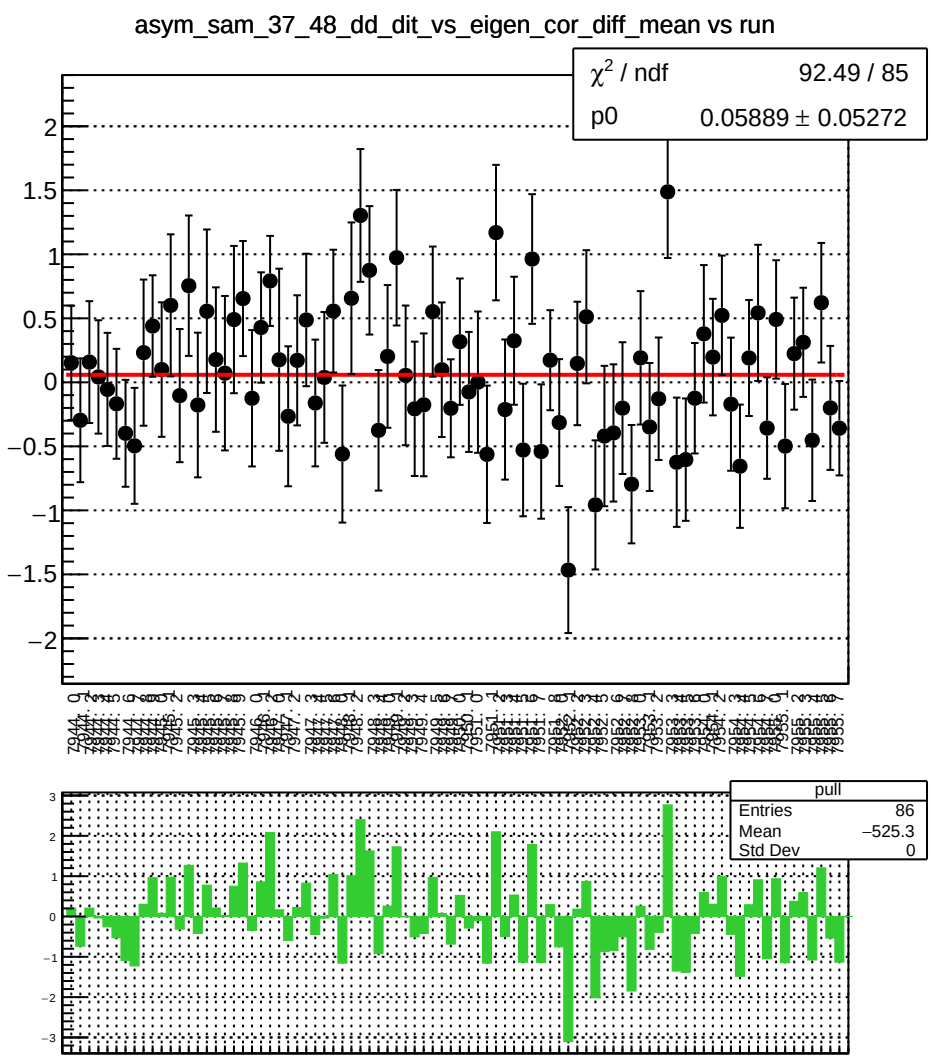

pull1D
Entries 86
Mean 0.2106
Std Dev 0.994

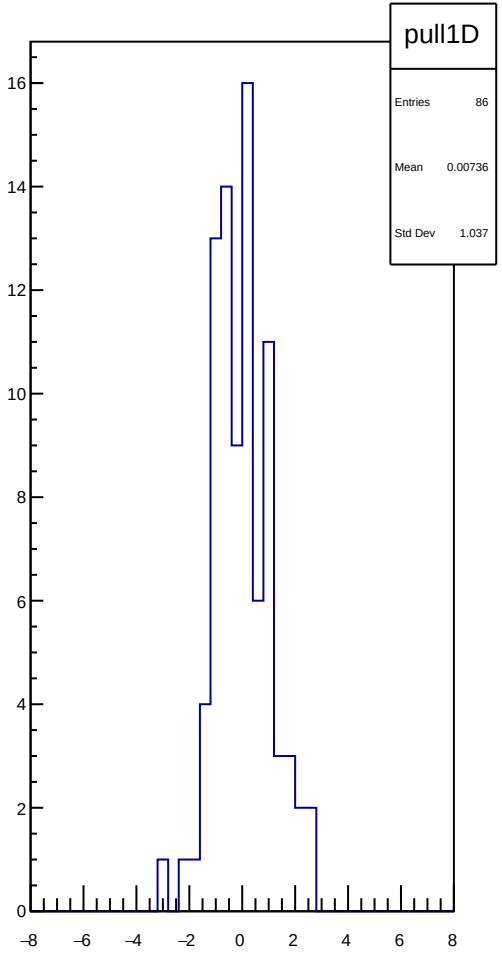

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.856e+05 / 85
p0 2.846e−11 ± 3.576e−14
0.025
0.02
0.015
0.01
0.005
0

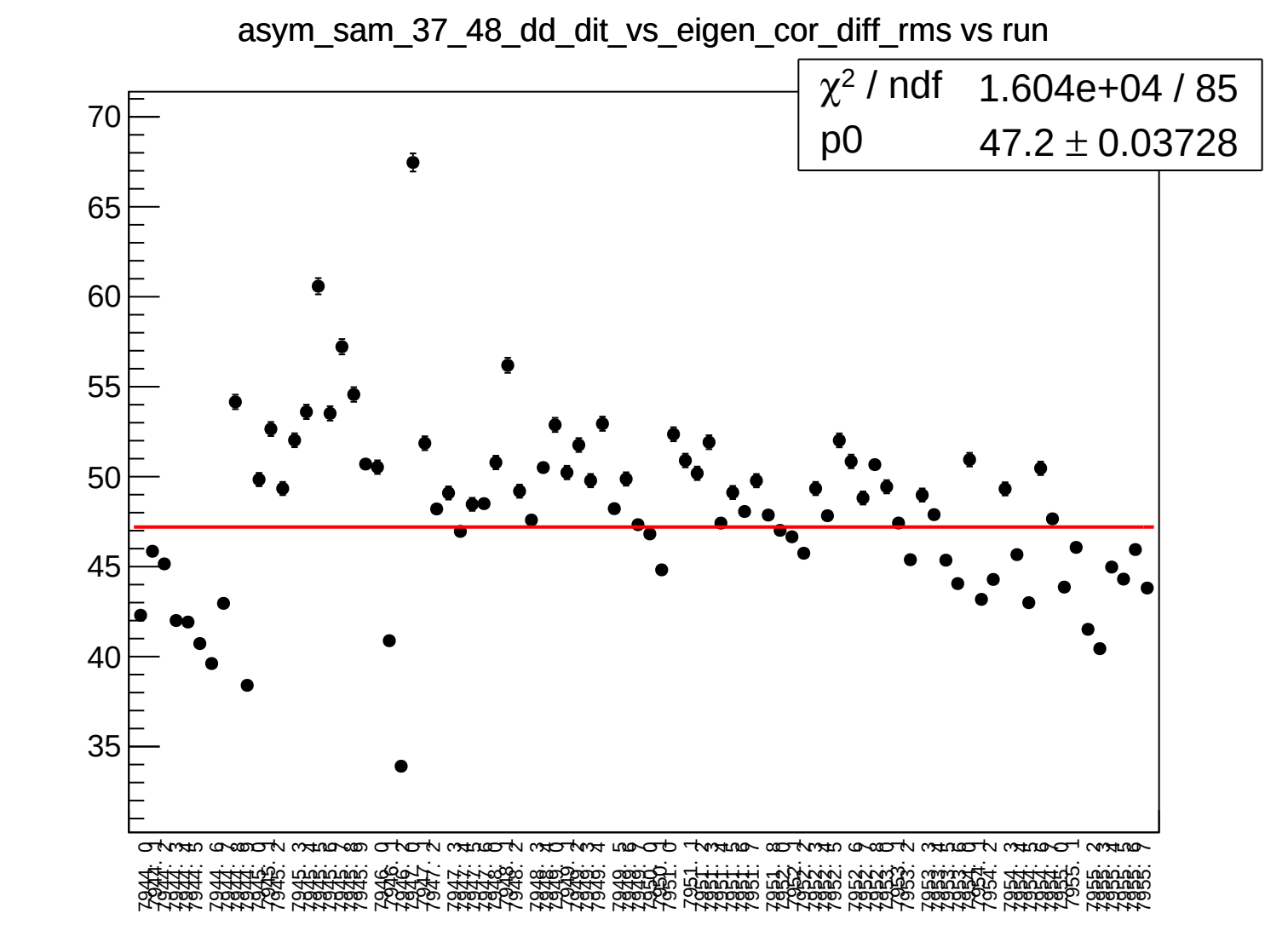

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.49 / 85
p0 0.05889 ± 0.05272
pull
Entries 86
Mean −525.3
Std Dev 0

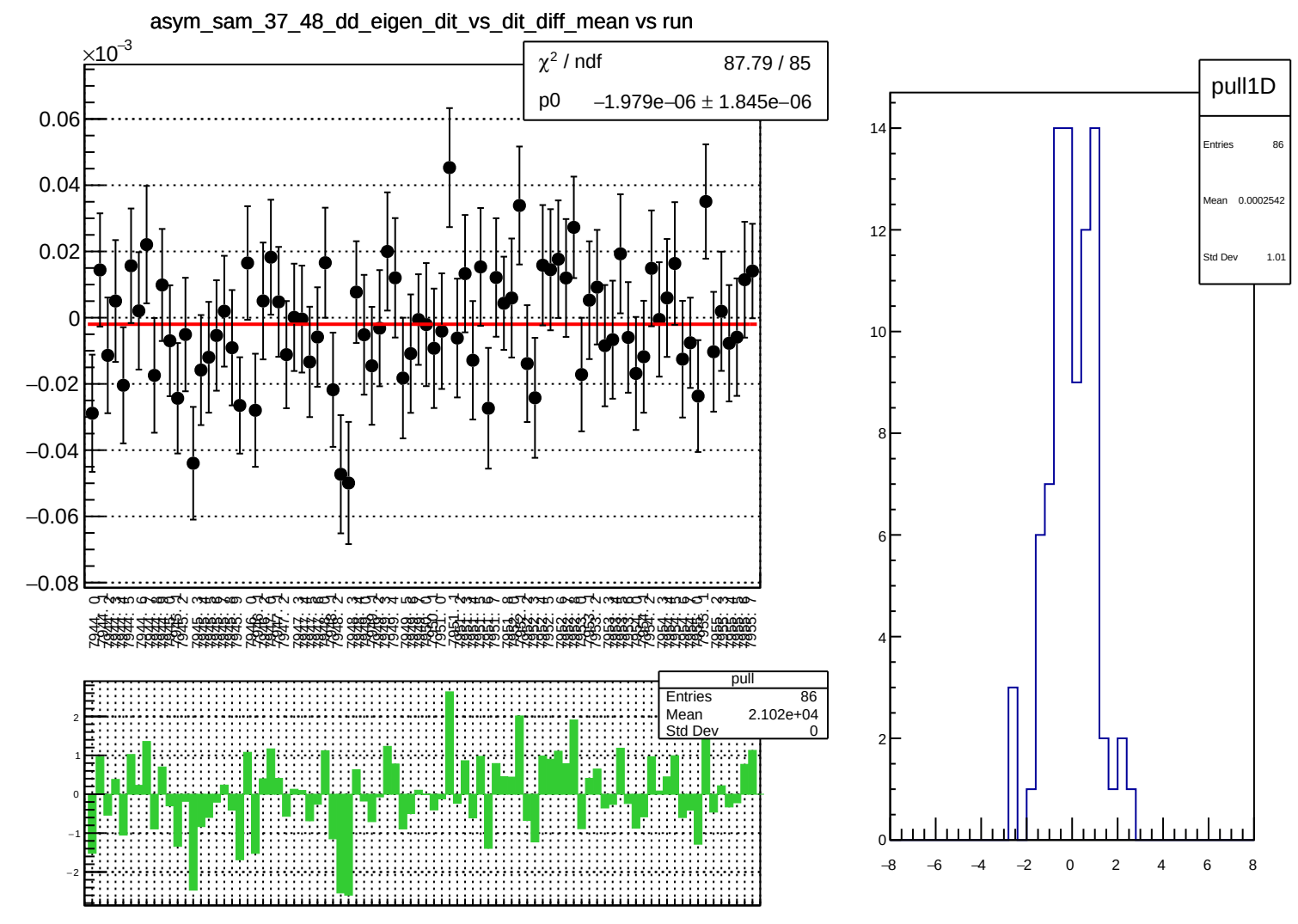

pull1D
Entries 86
Mean 0.00736
Std Dev 1.037

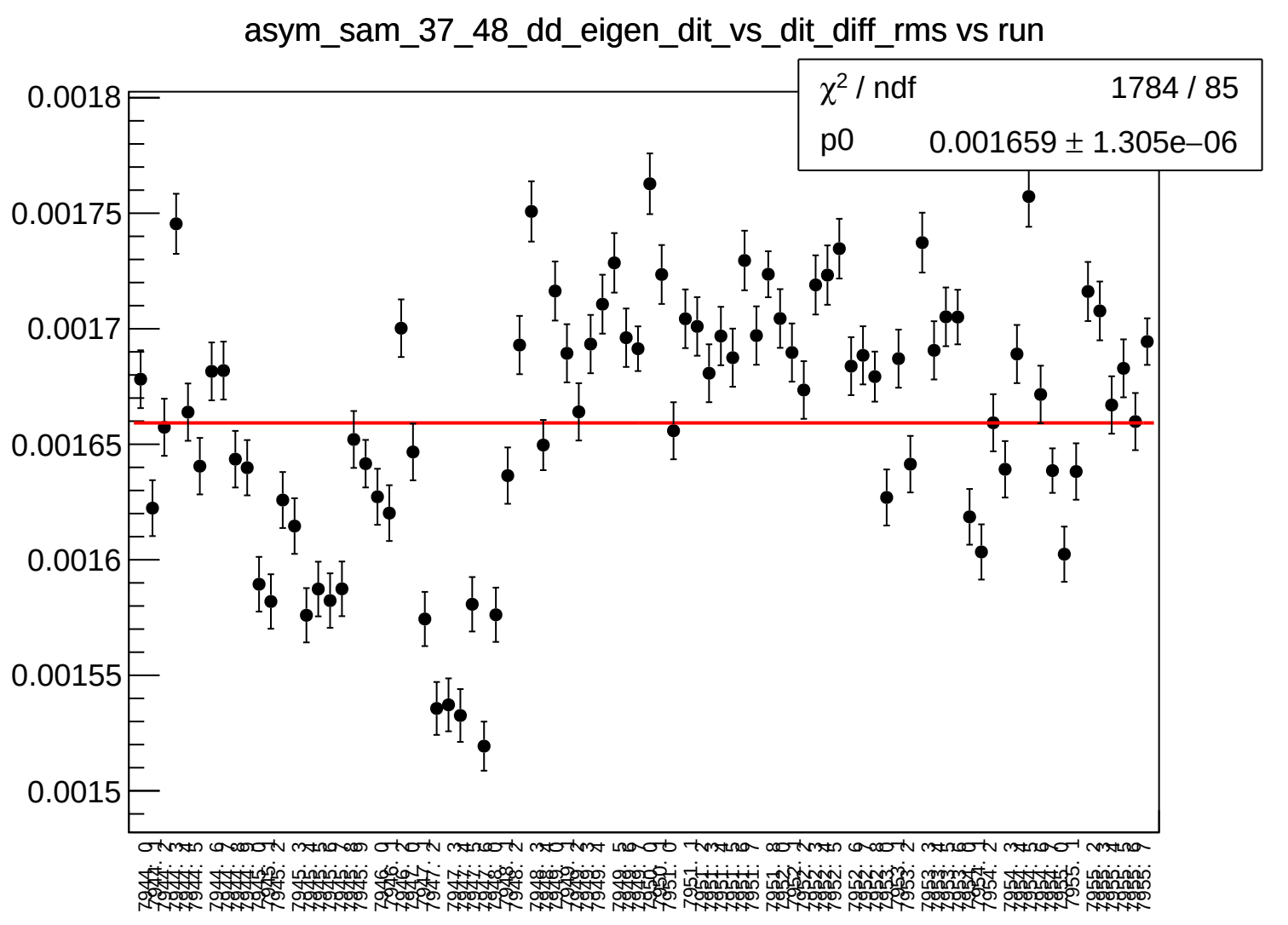

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.604e+04 / 85
p0 47.2 ± 0.03728
70
65
60
55
50
45
40
35

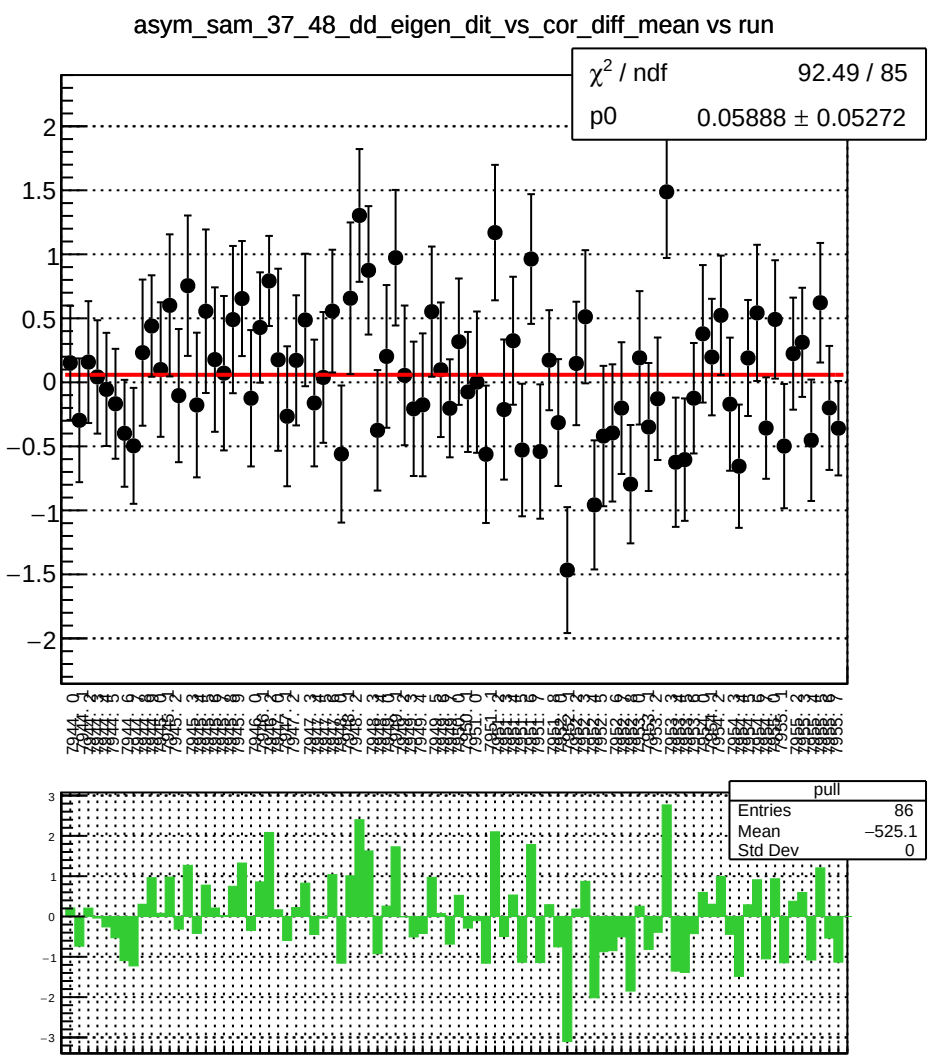

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.49 / 85
p0 0.05889 ± 0.05272
pull
Entries 86
Mean −525.3
Std Dev 0

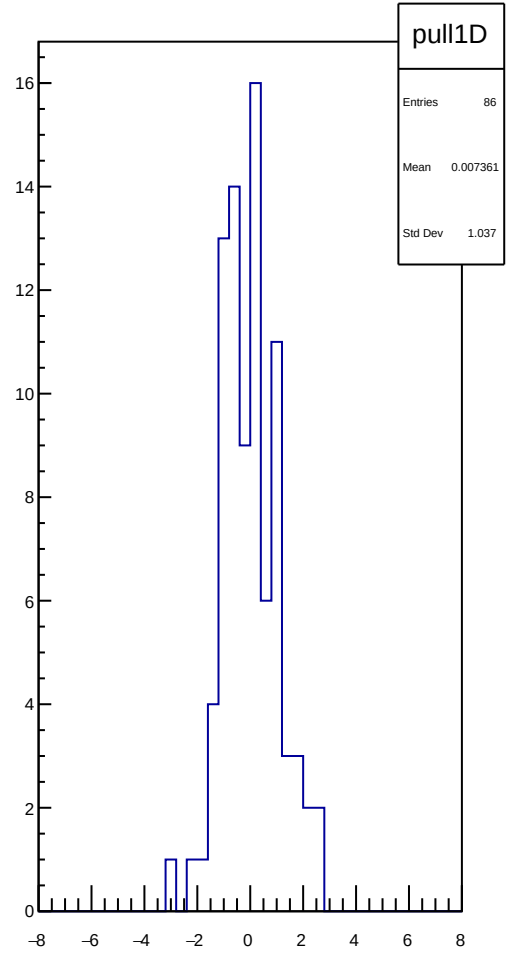

pull1D
Entries 86
Mean 0.00736
Std Dev 1.037

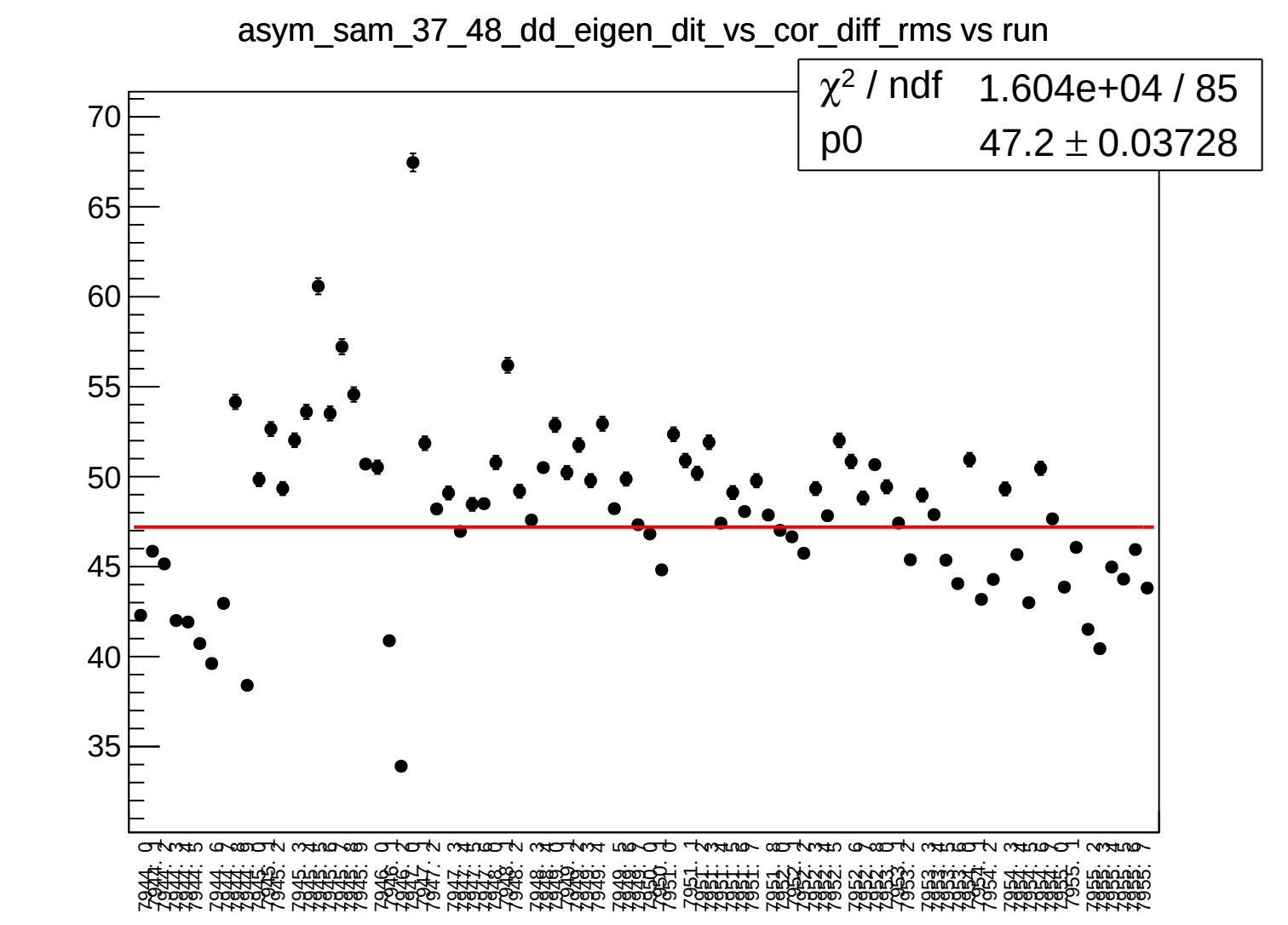

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.604e+04 / 85
p0 47.2 ± 0.03728
70
65
60
55
50
45
40
35

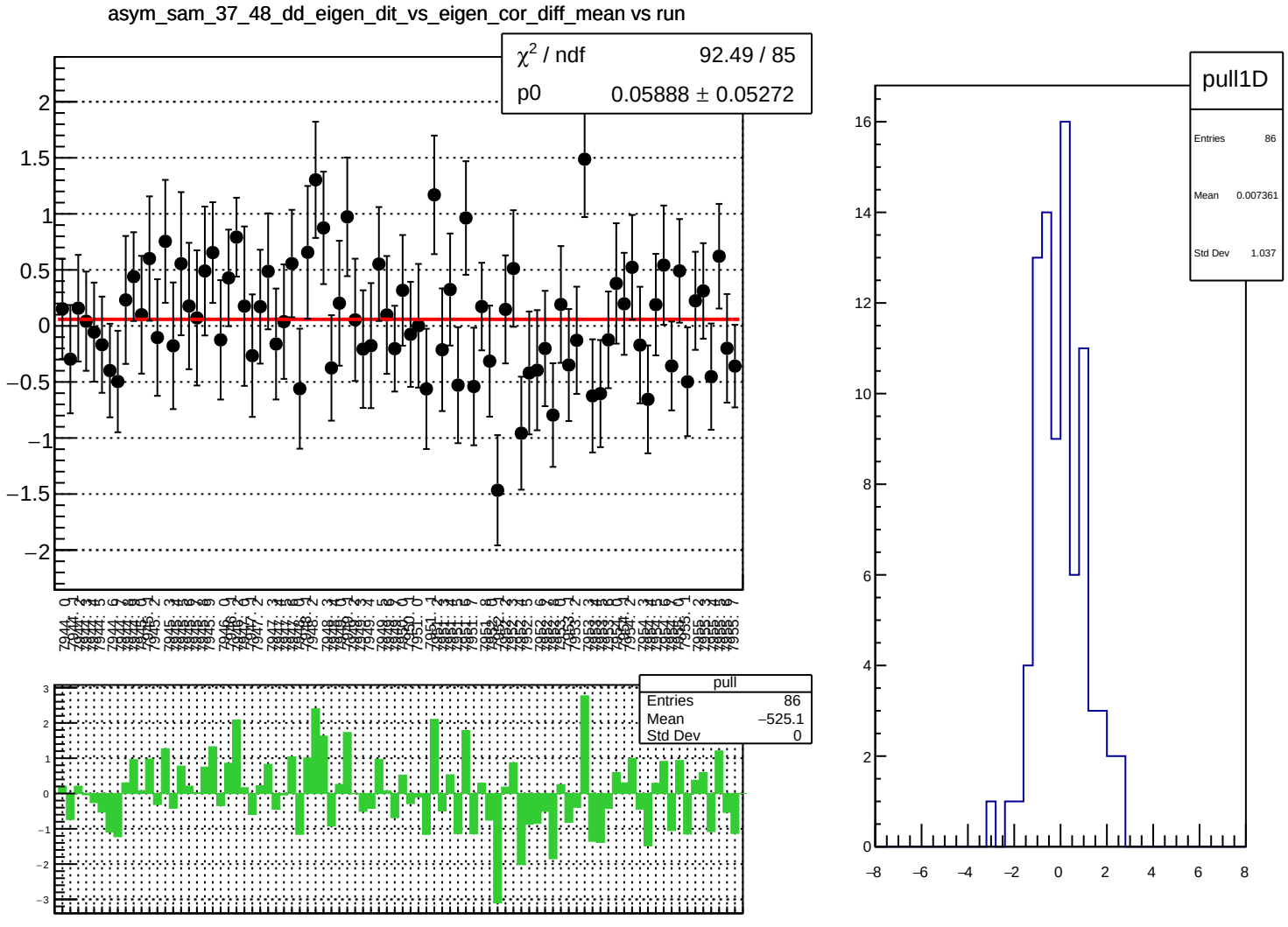

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.79 / 85
p0 −1.979e−06 ± 1.845e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean 2.102e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.0002542
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

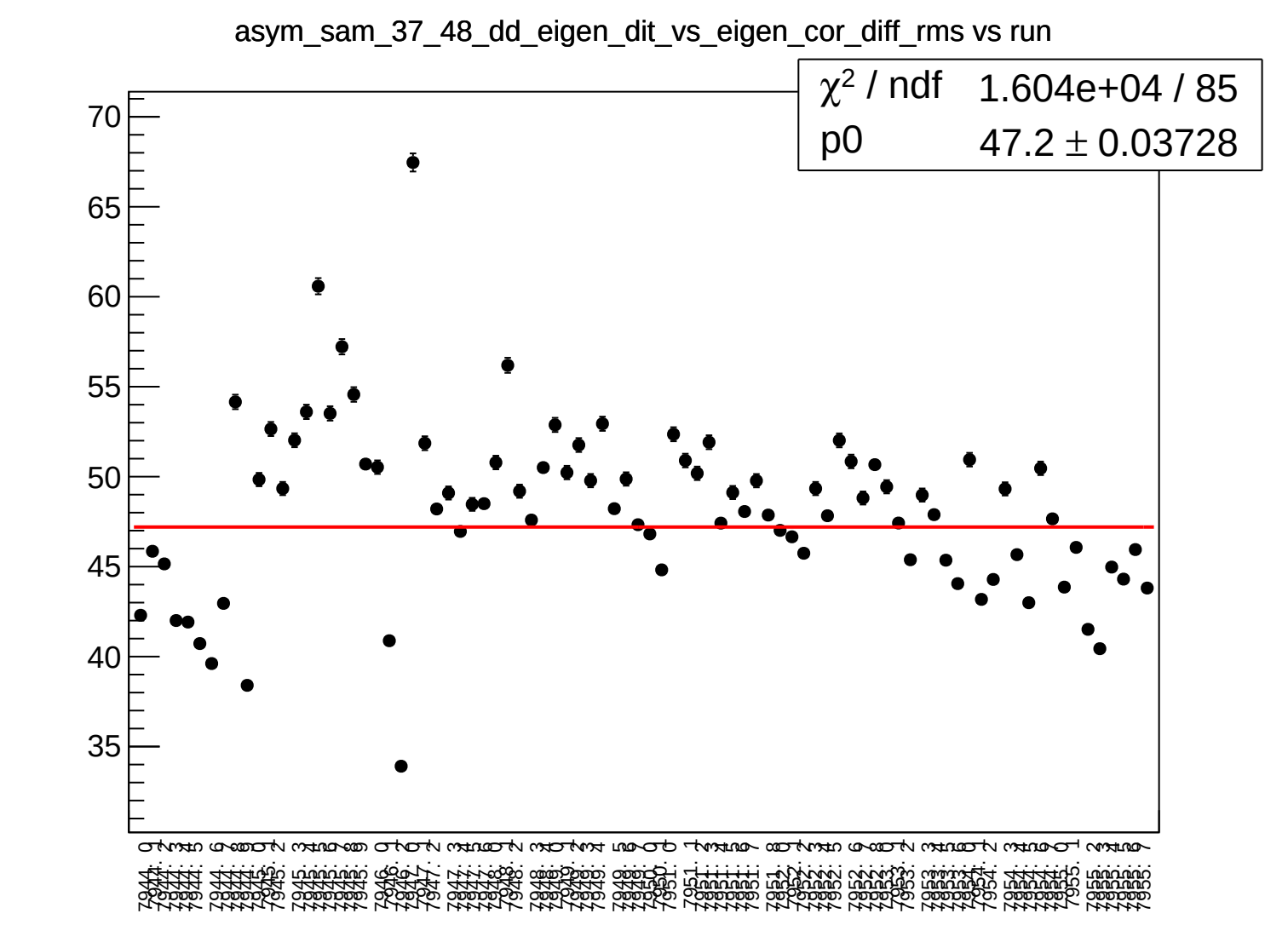

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1784 / 85
p0 0.001659 ± 1.305e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

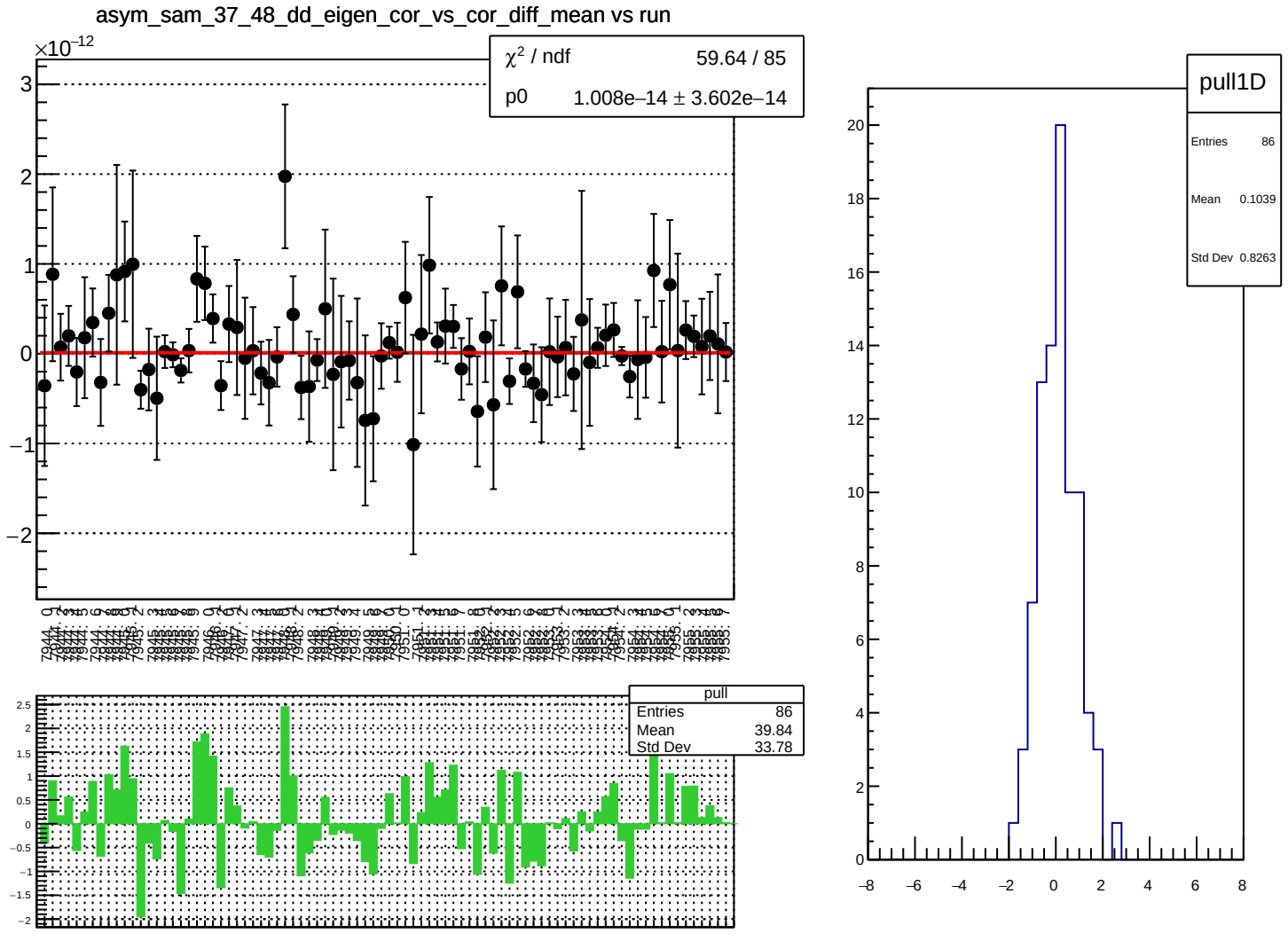

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.49 / 85
p0 0.05888 ± 0.05272
pull
Entries 86
Mean −525.1
Std Dev 0

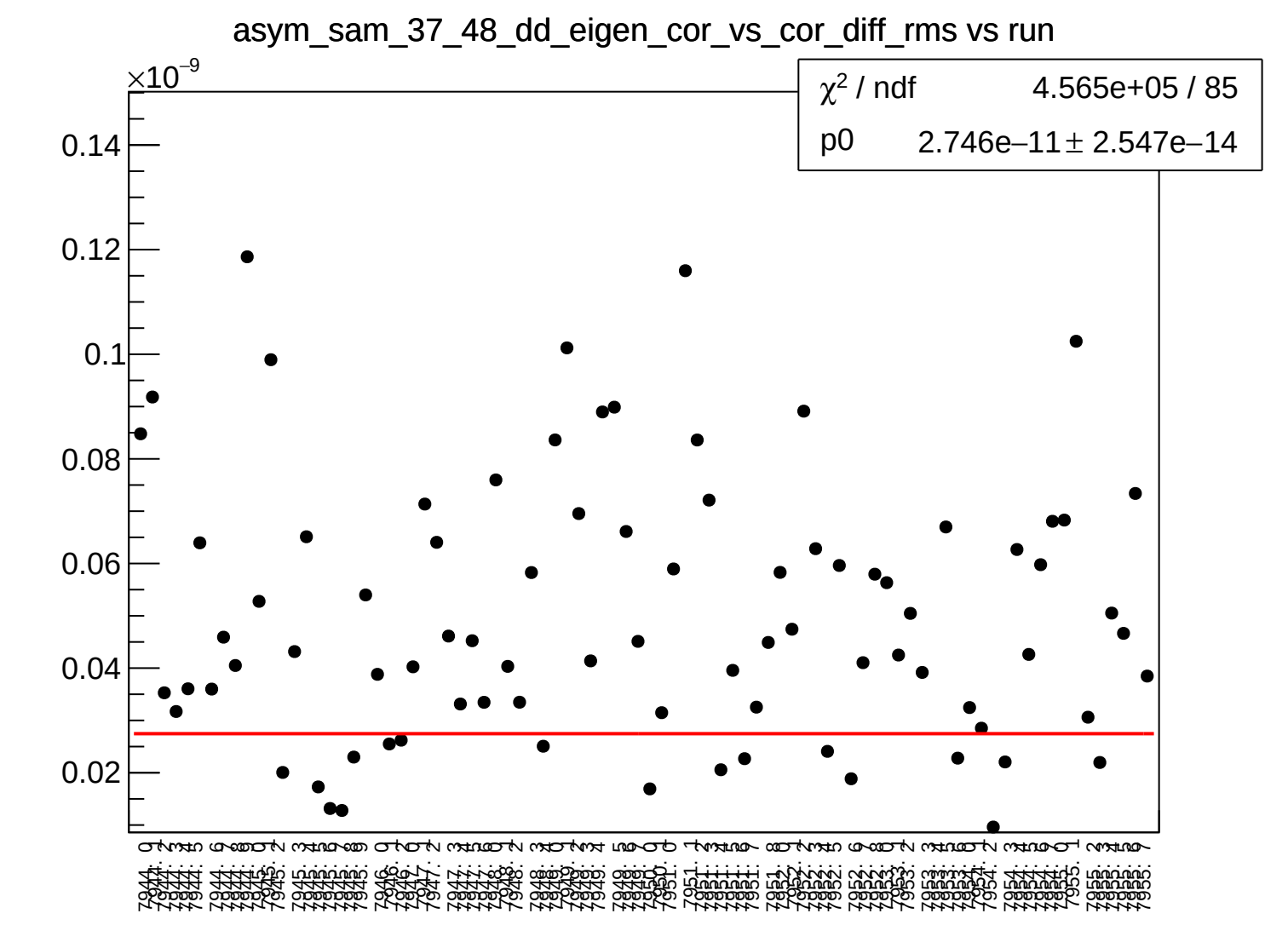

pull1D
Entries 86
Mean 0.007361
Std Dev 1.037

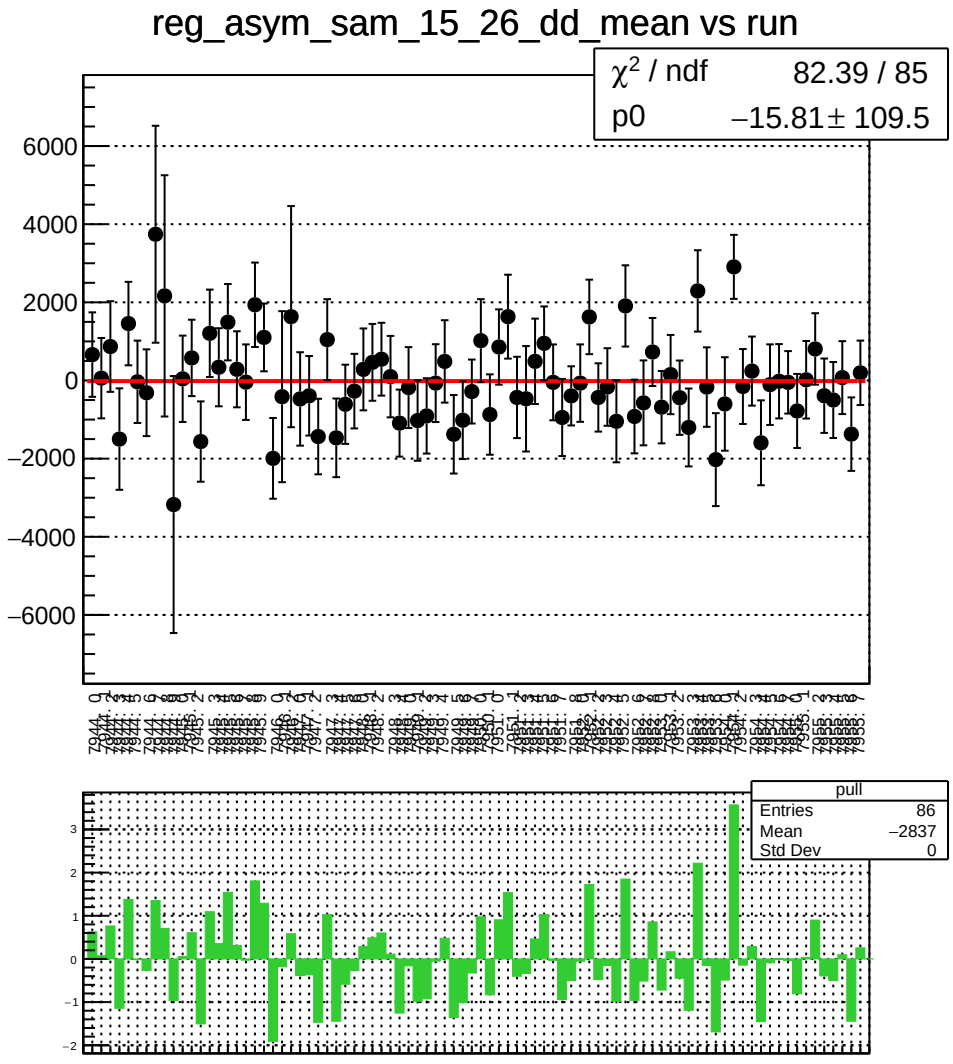

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.604e+04 / 85
p0 47.2 ± 0.03728
70
65
60
55
50
45
40
35

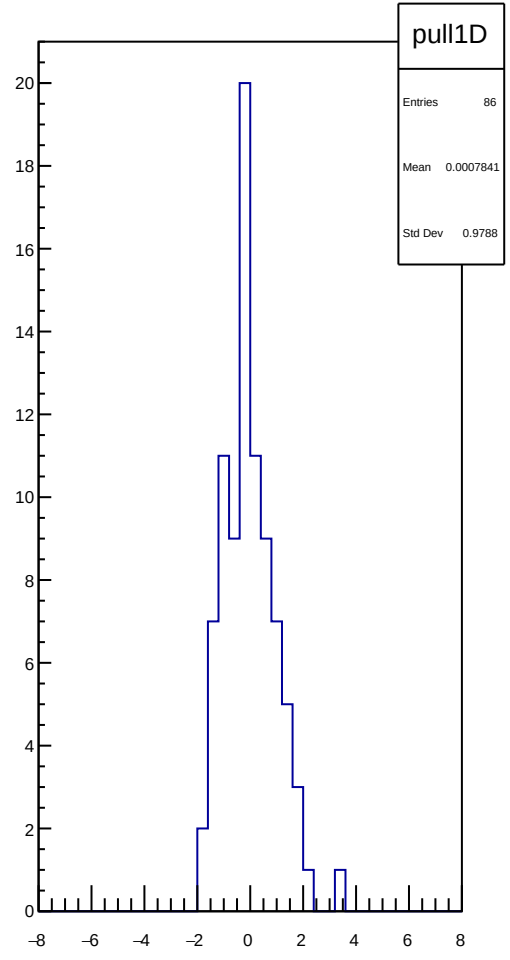

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.49 / 85
p0 0.05888 ± 0.05272
pull
Entries 86
Mean −525.1
Std Dev 0
pull1D
Entries 86
Mean 0.007361
Std Dev 1.037

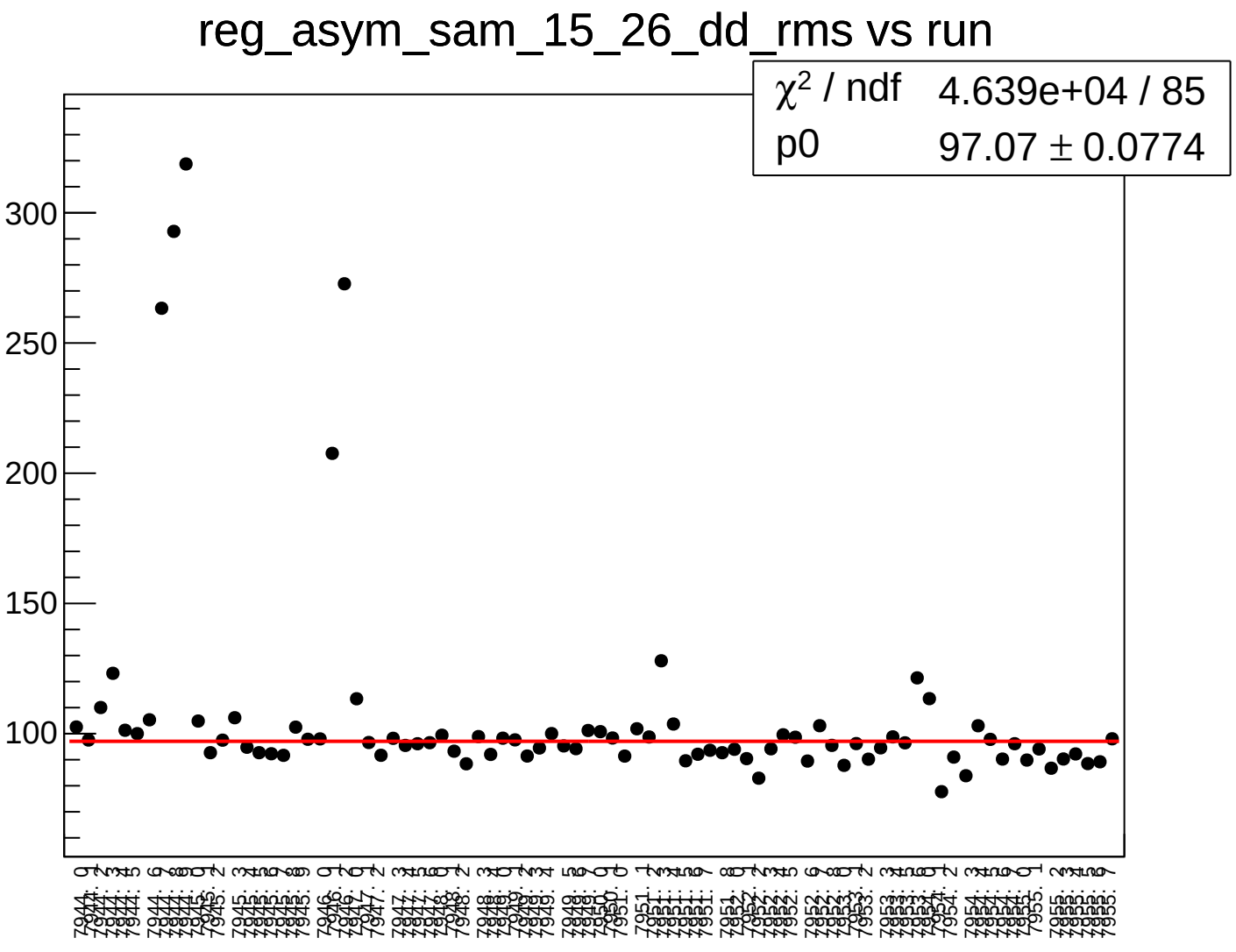

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.604e+04 / 85
p0 47.2 ± 0.03728
70
65
60
55
50
45
40
35

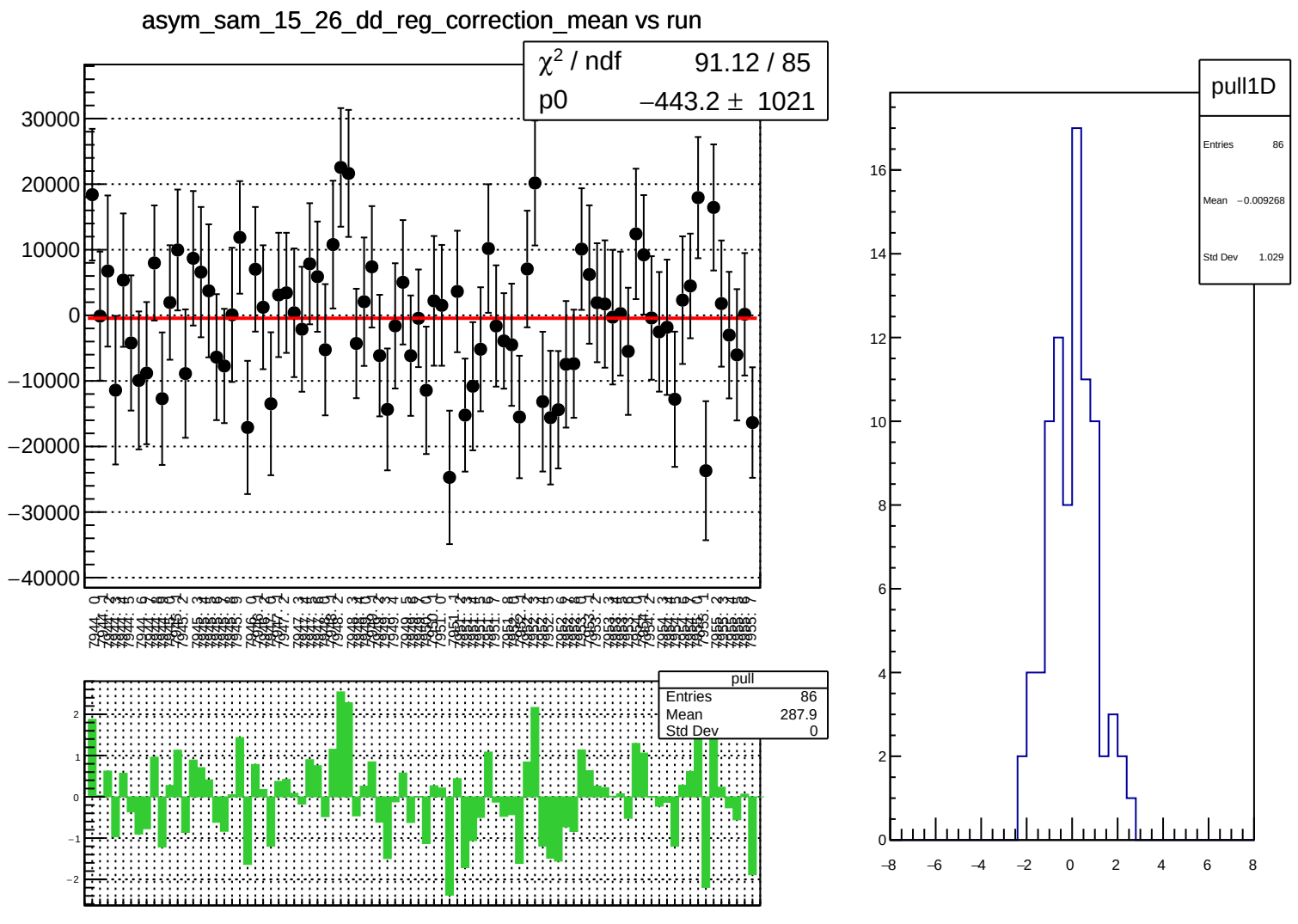

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.64 / 85
p0 1.008e−14 ± 3.602e−14
pull
Entries 86
Mean 39.84
Std Dev 33.78
pull1D
Entries 86
Mean 0.1039
Std Dev 0.8263

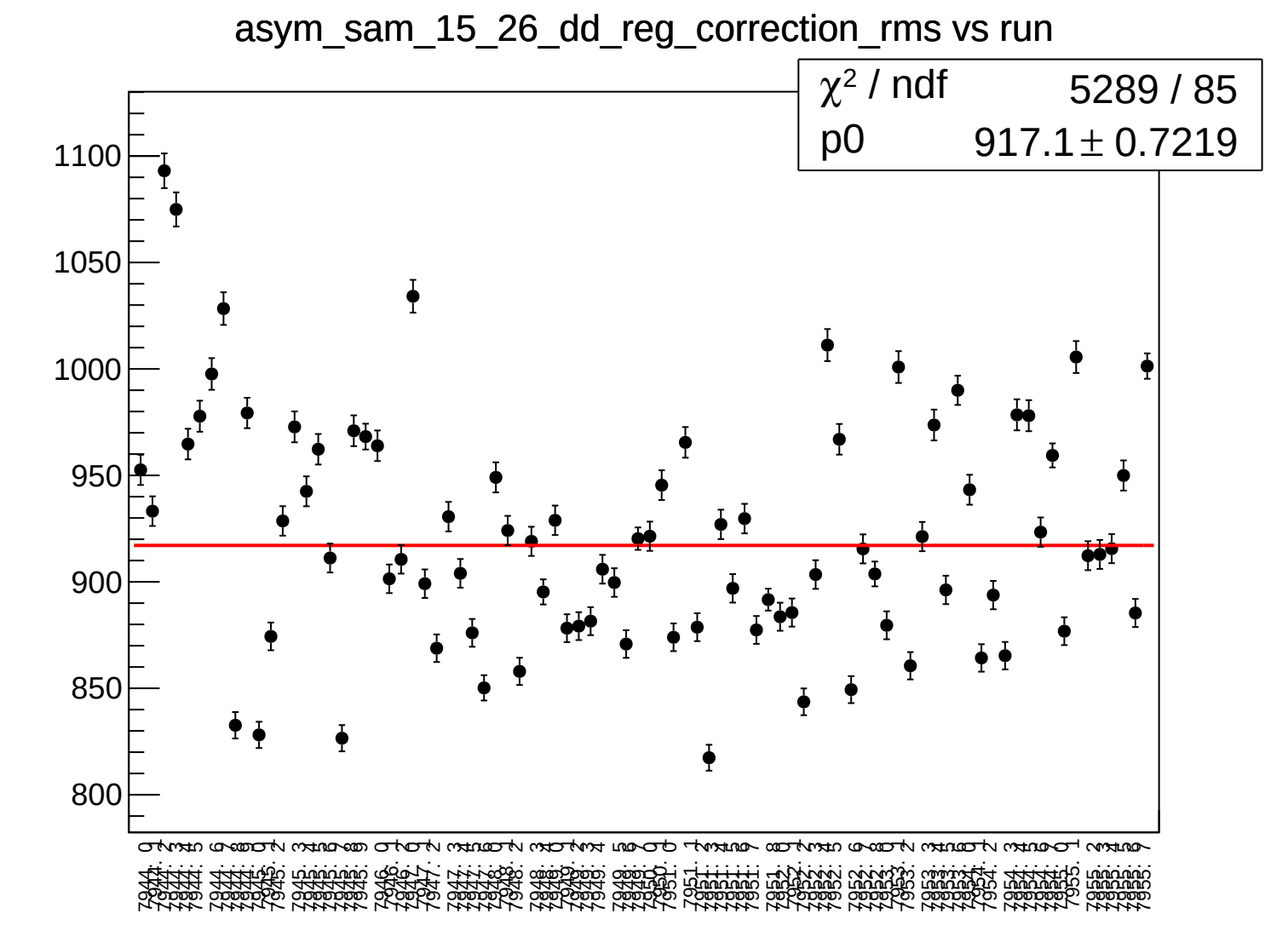

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.565e+05 / 85
p0 2.746e−11 ± 2.547e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

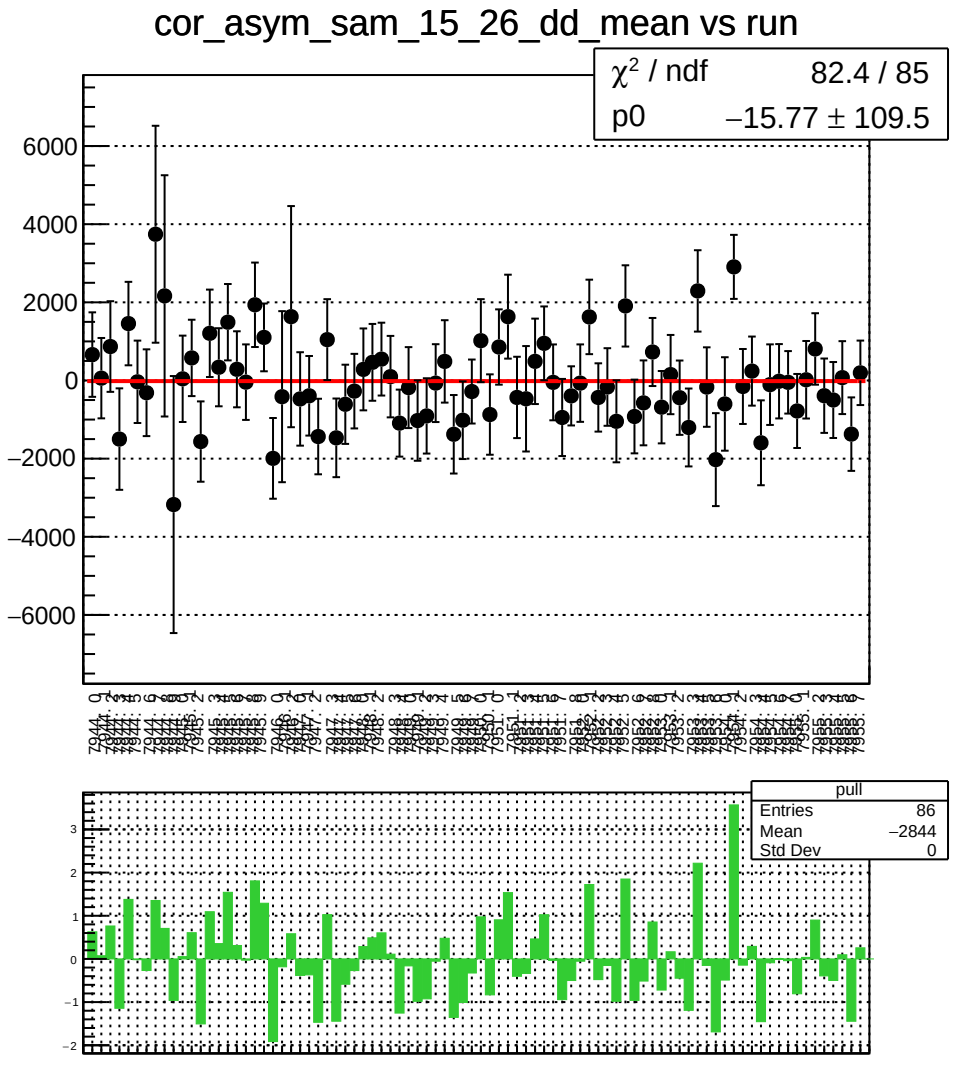

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.39 / 85
p0 −15.81 ± 109.5
pull
Entries 86
Mean −2837
Std Dev 0

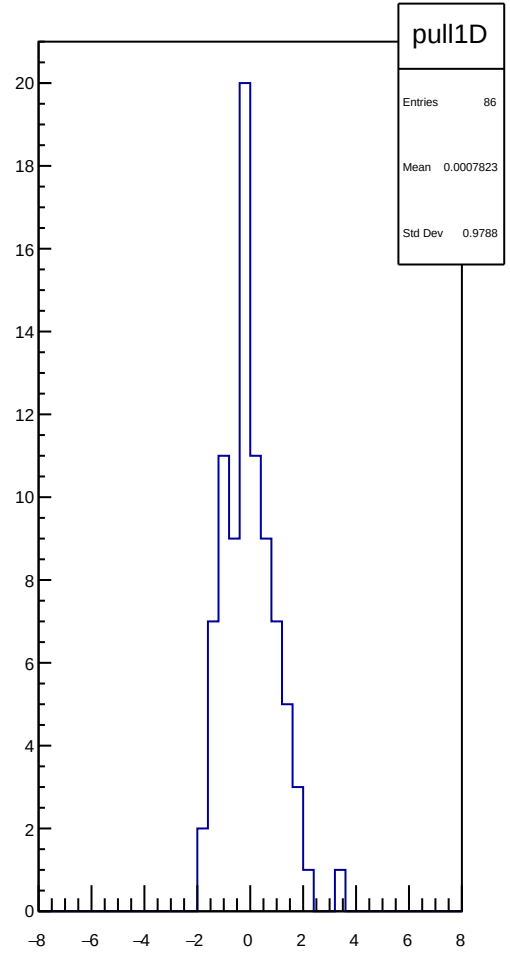

pull1D
Entries 86
Mean 0.0007841
Std Dev 0.9788

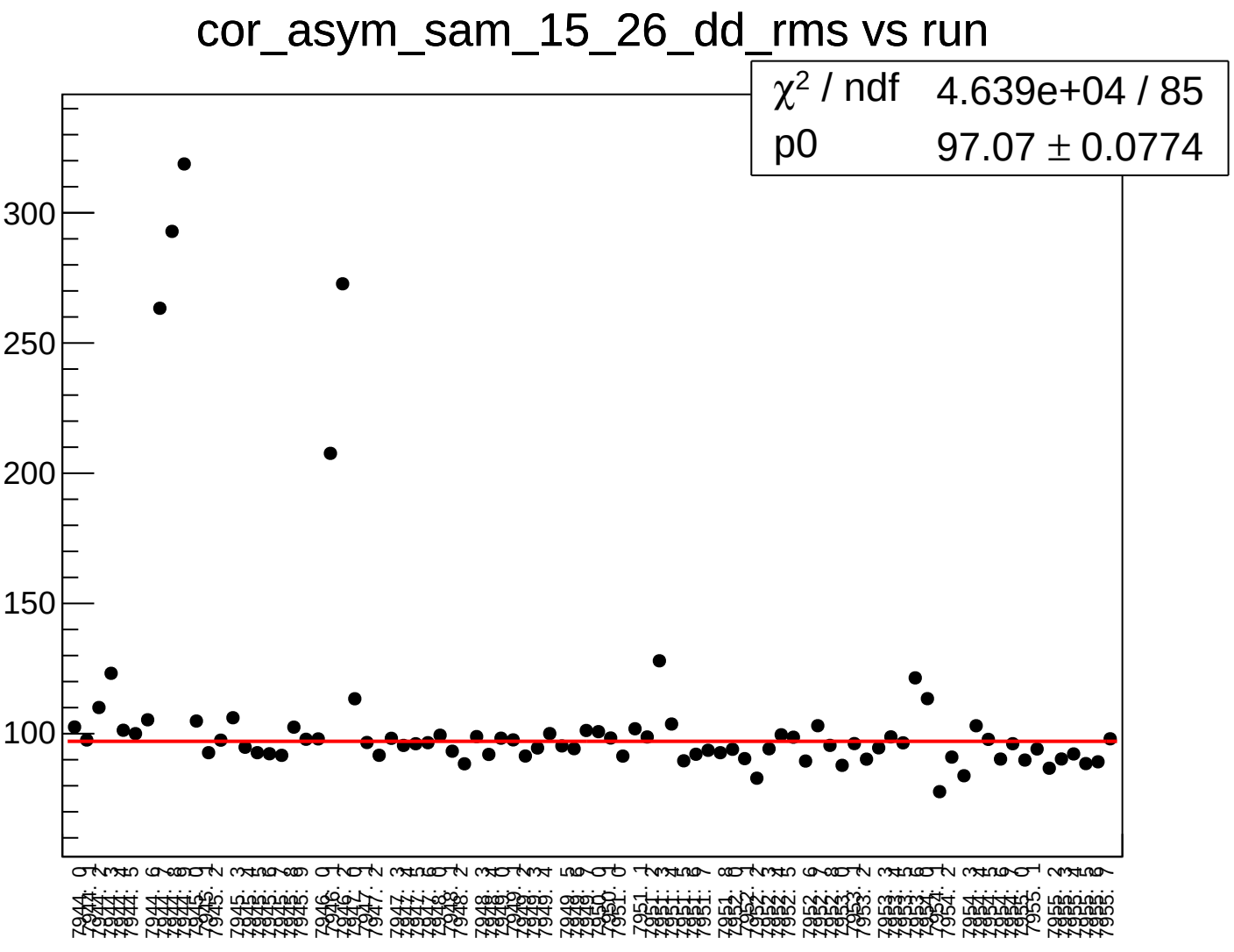

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 4.639e+04 / 85
p0 97.07 ± 0.0774
300
250
200
150
100

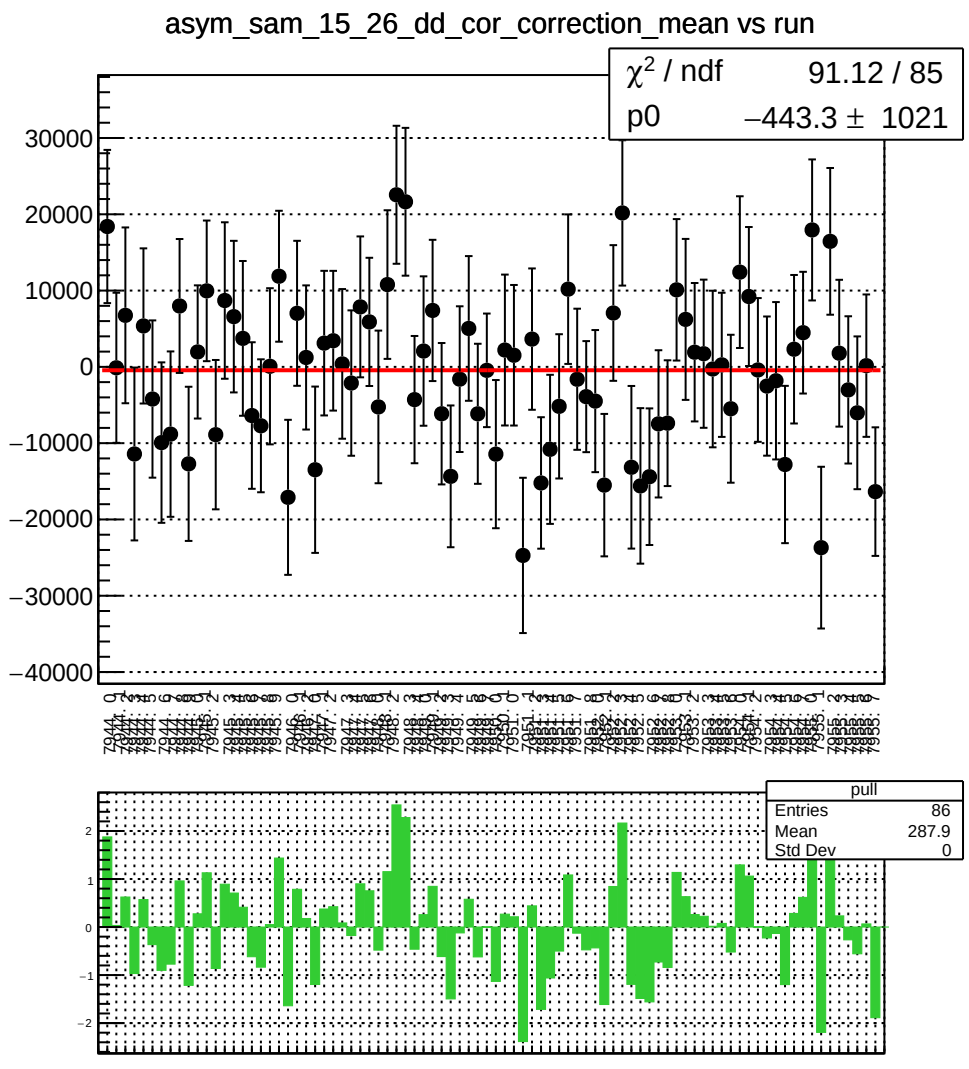

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 91.12 / 85
p0 −443.2 ± 1021
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 287.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.009268
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

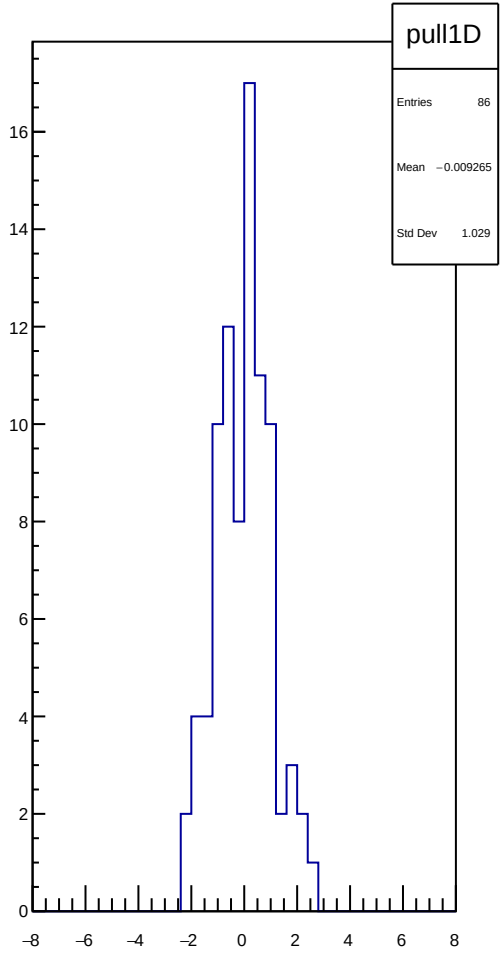

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 5289 / 85
p0 917.1 ± 0.7219
1100
1050
1000
950
900
850
800

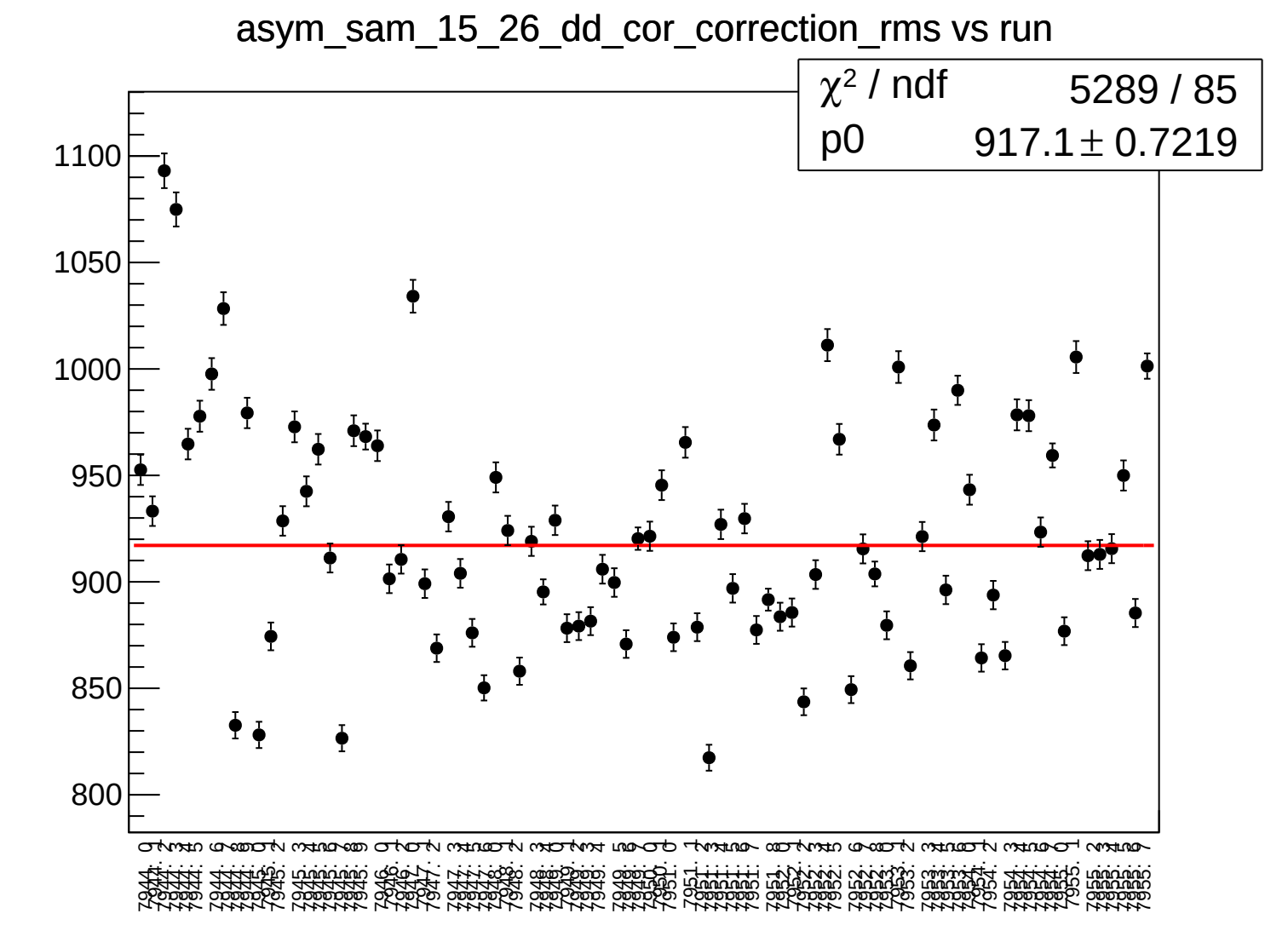

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.4 / 85
p0 −15.77 ± 109.5
pull
Entries 86
Mean −2844
Std Dev 0

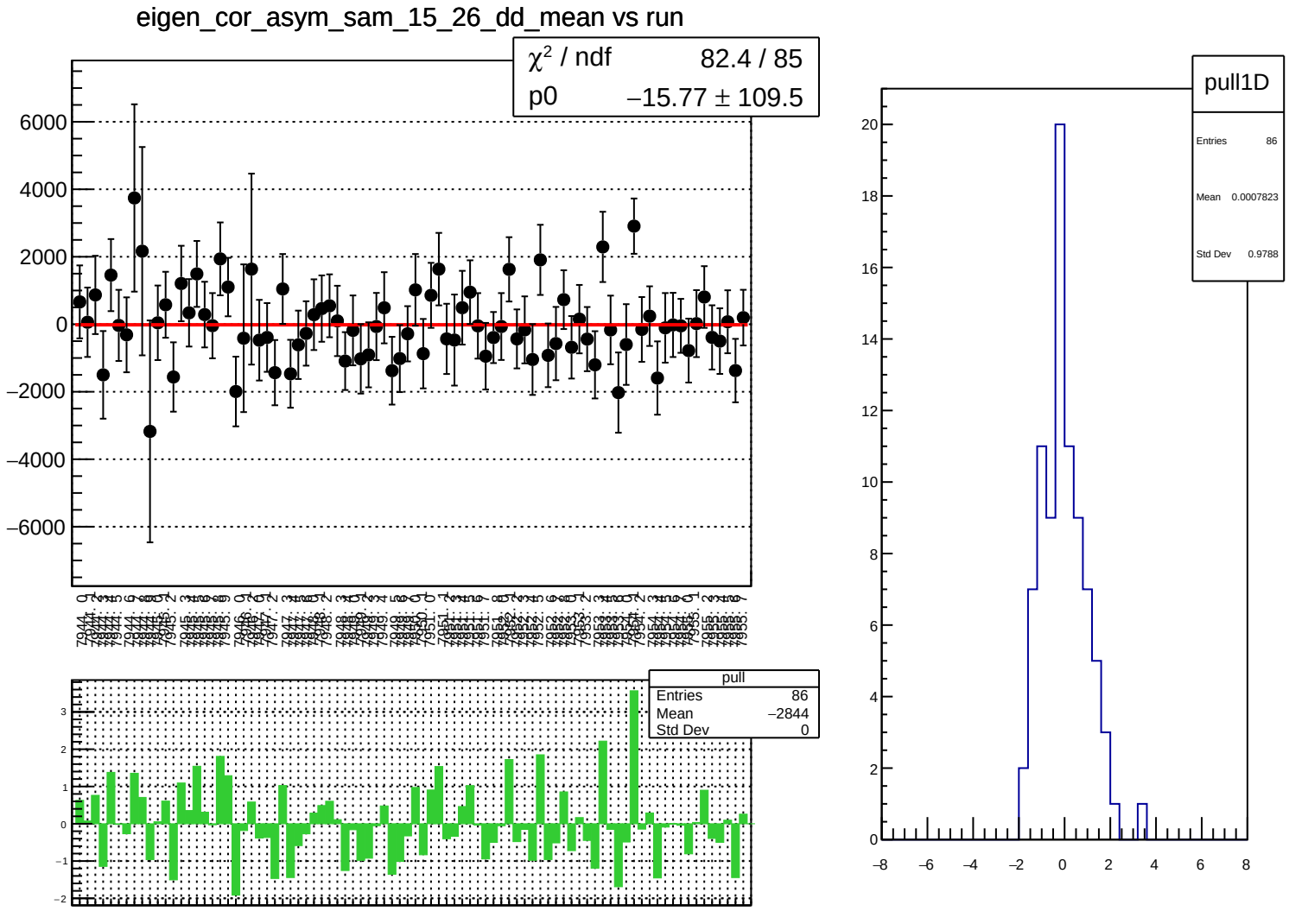

pull1D
Entries 86
Mean 0.0007823
Std Dev 0.9788

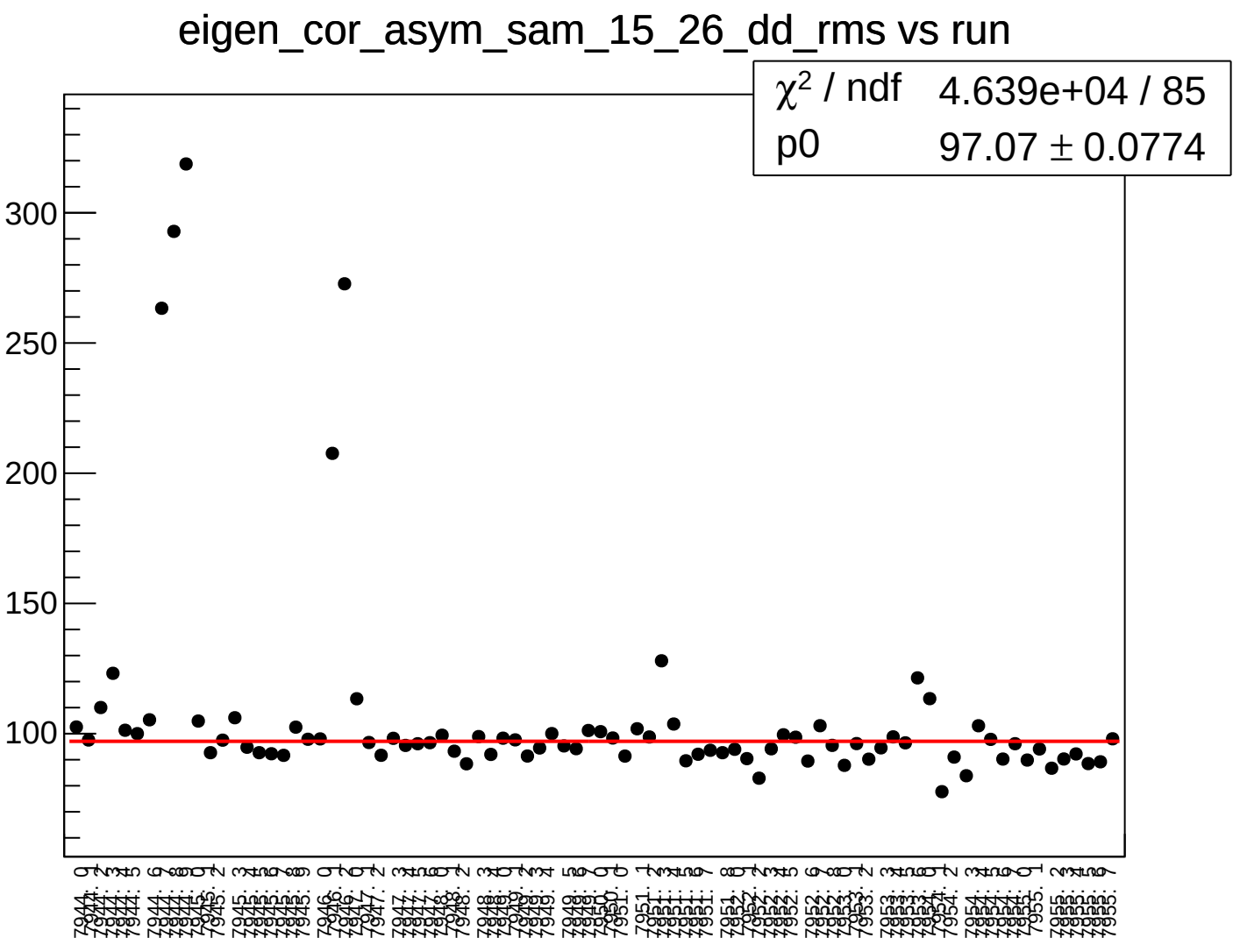

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 4.639e+04 / 85
p0 97.07 ± 0.0774
300
250
200
150
100

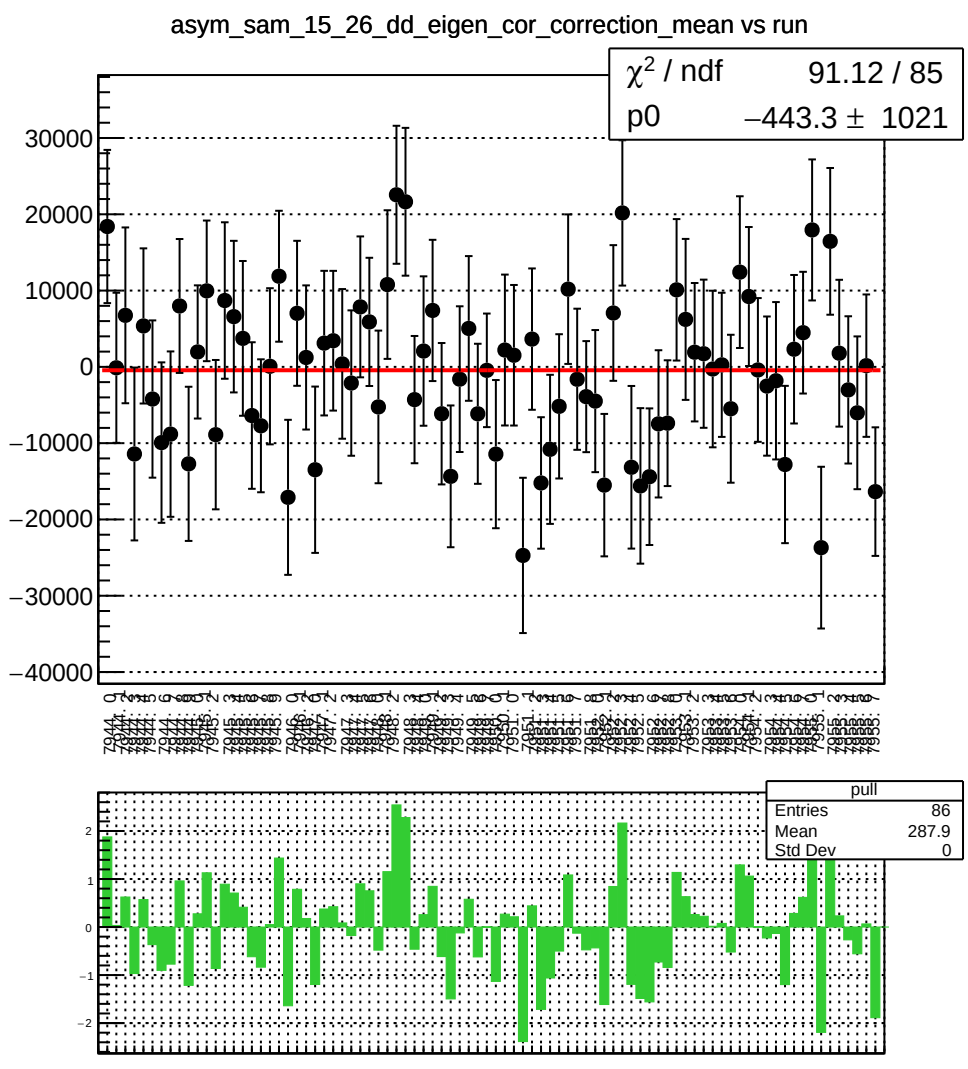

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 91.12 / 85
p0 −443.3 ± 1021
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 287.9
Std Dev 0
2
1
0
−1
−2

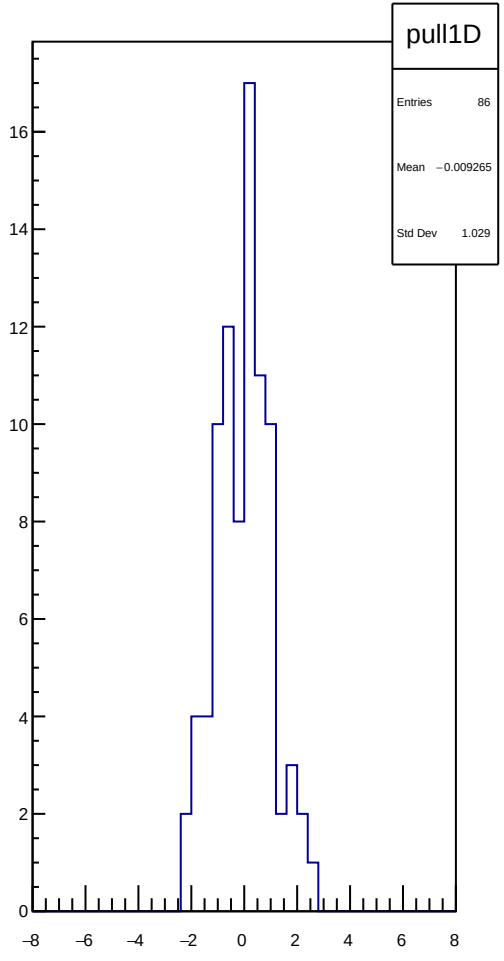

pull1D
Entries 86
Mean −0.009265
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

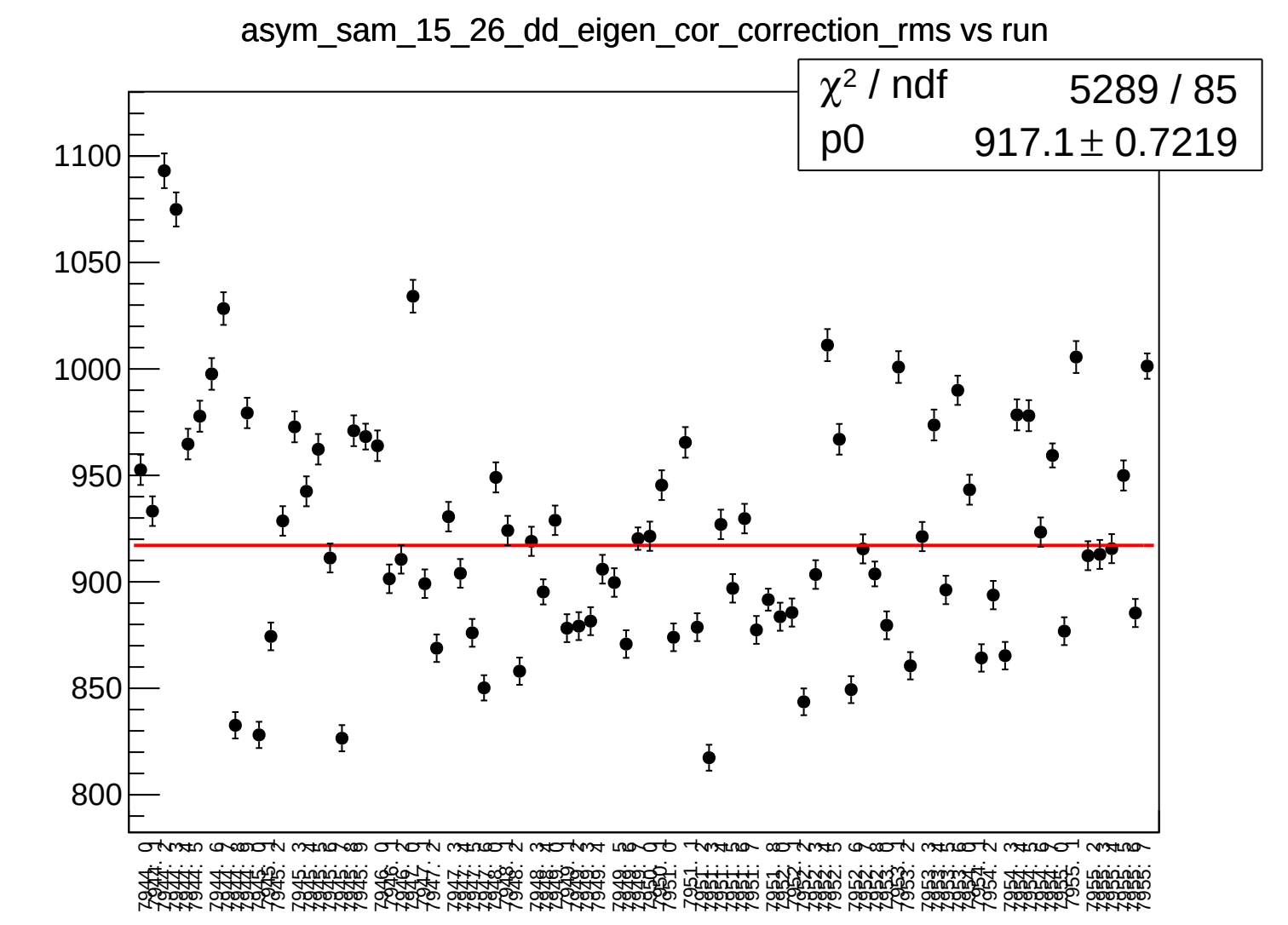

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 5289 / 85
p0 917.1 ± 0.7219
1100
1050
1000
950
900
850
800

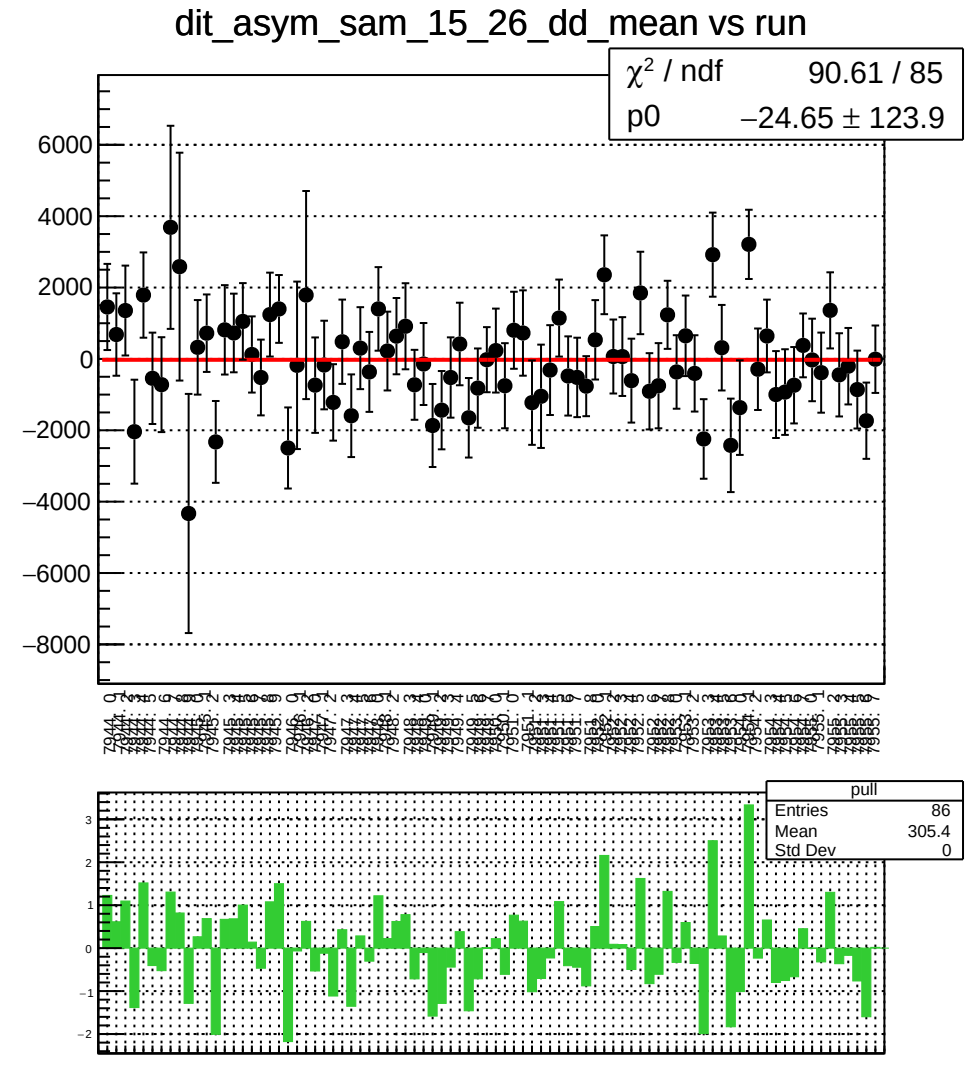

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.4 / 85
p0 −15.77 ± 109.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −2844
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.0007823
Std Dev 0.9788
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

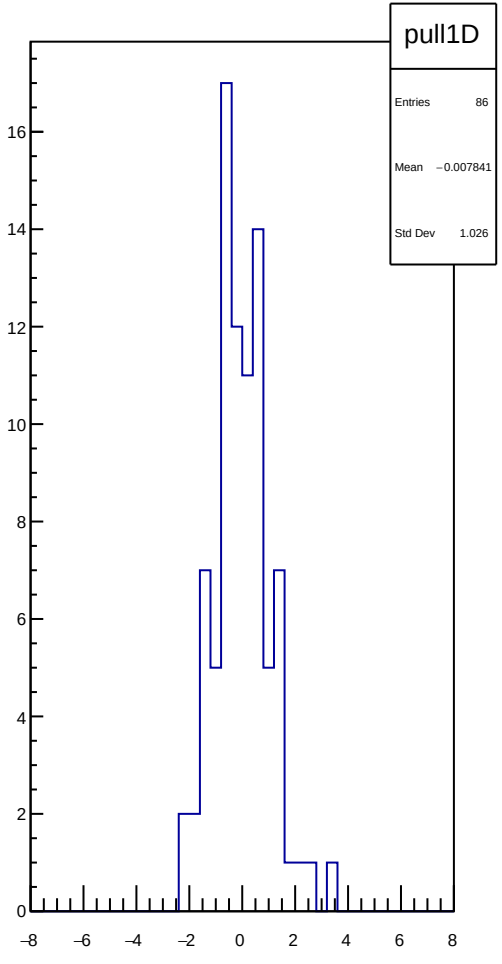

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 4.639e+04 / 85
p0 97.07 ± 0.0774
300
250
200
150
100

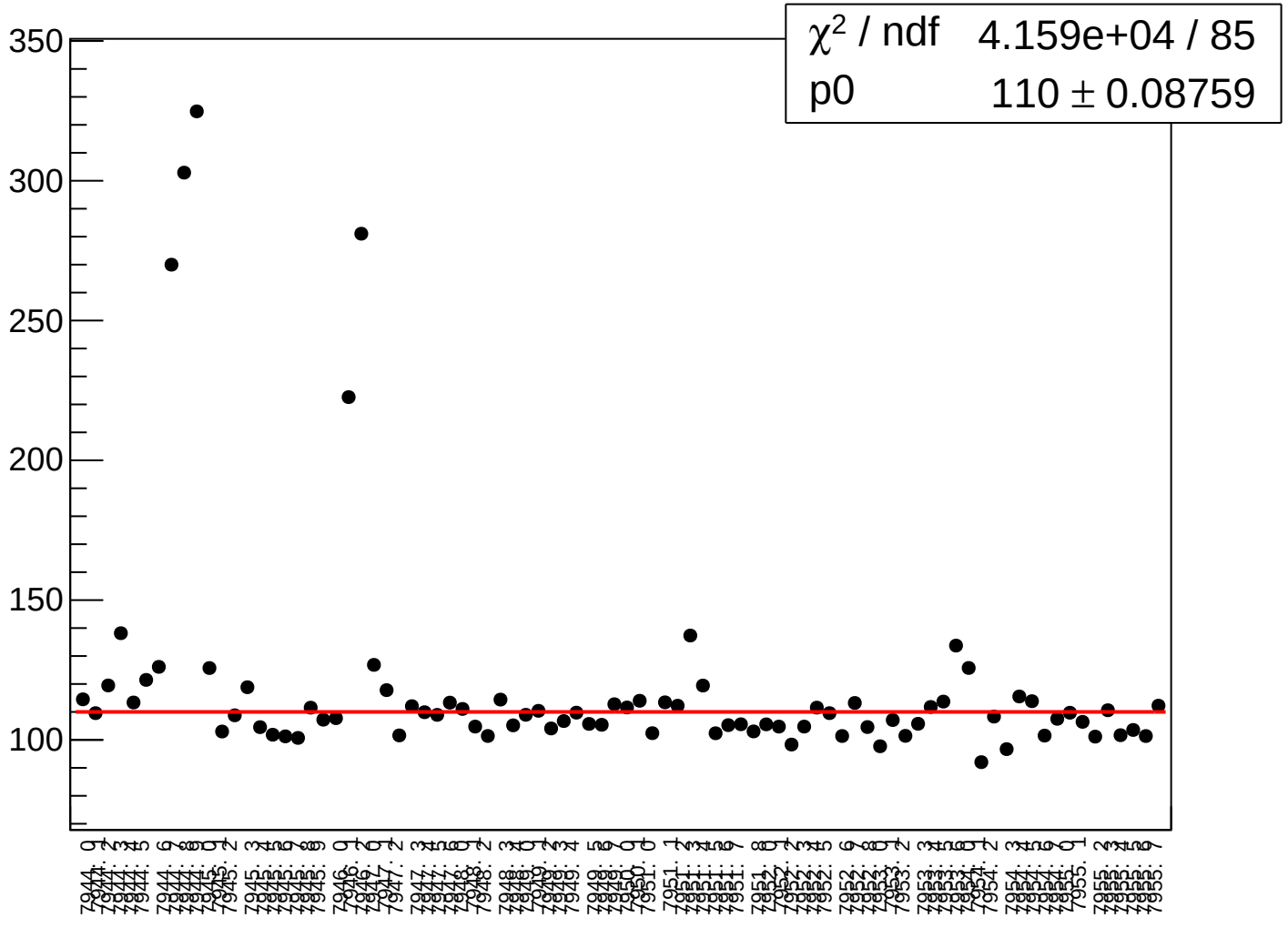

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.12 / 85
p0 −443.3 ± 1021
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 287.9
Std Dev 0
2
1
0
−1
−2

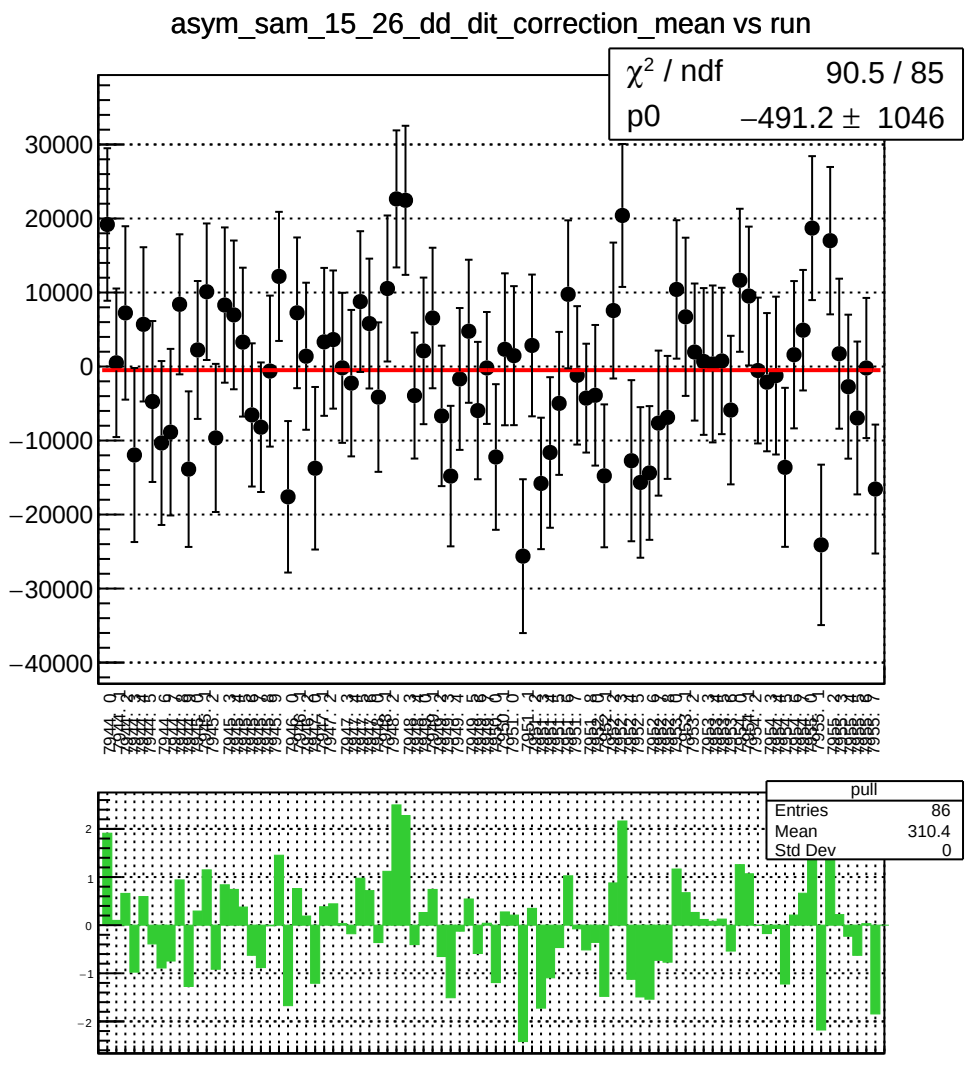

pull1D
Entries 86
Mean −0.009265
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

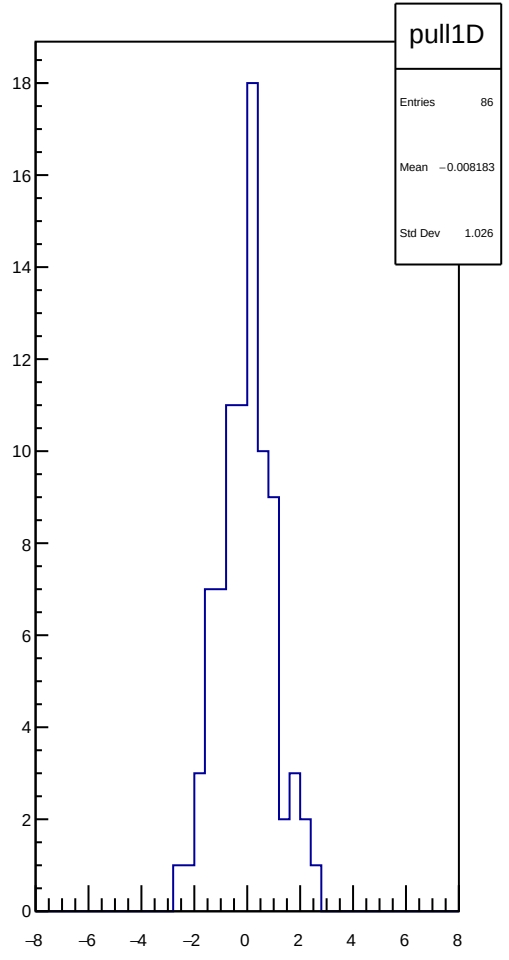

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5289 / 85
p0 917.1 ± 0.7219
1100
1050
1000
950
900
850
800

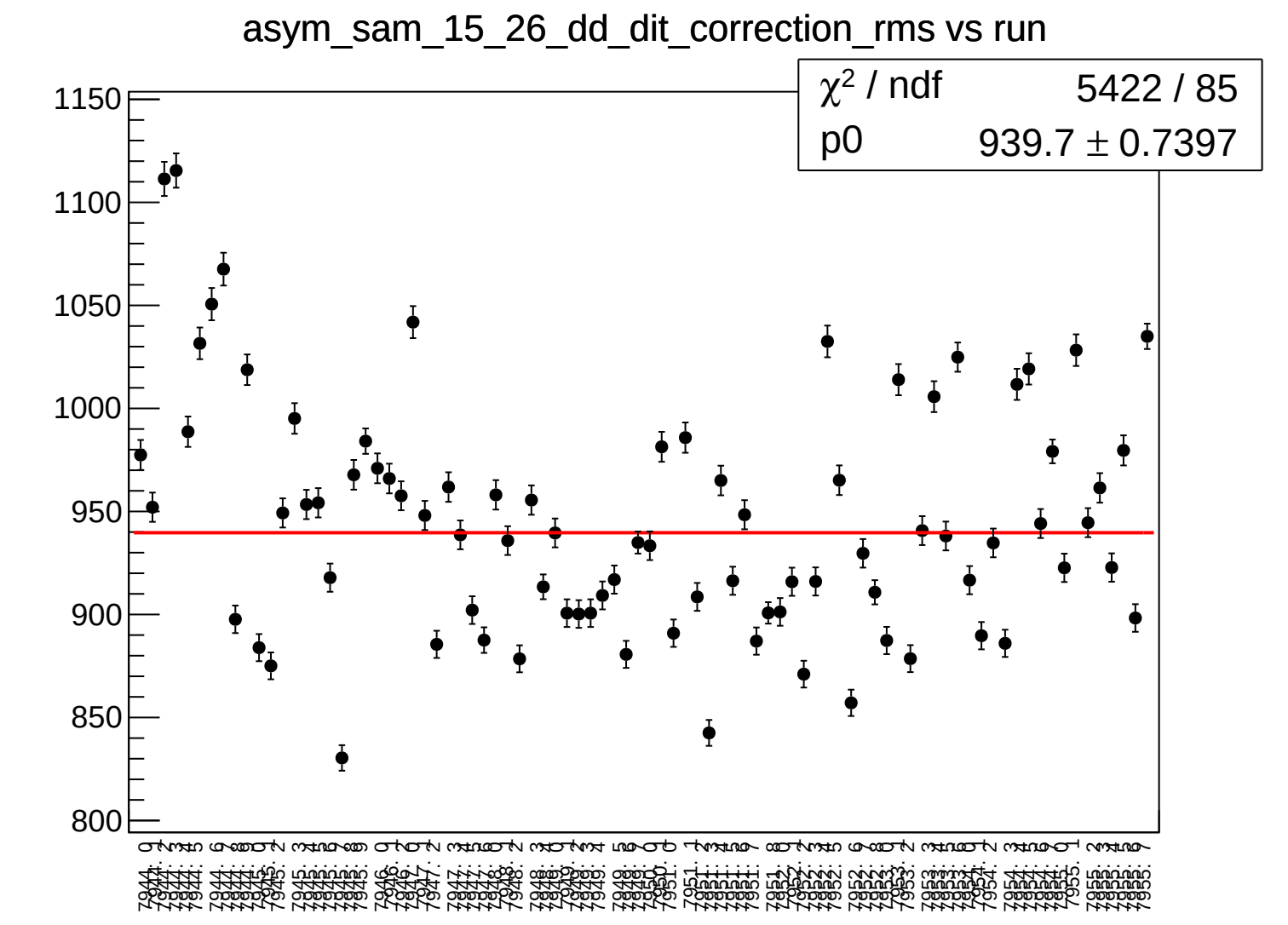

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 90.61 / 85
p0 −24.65 ± 123.9
pull
Entries 86
Mean 305.4
Std Dev 0

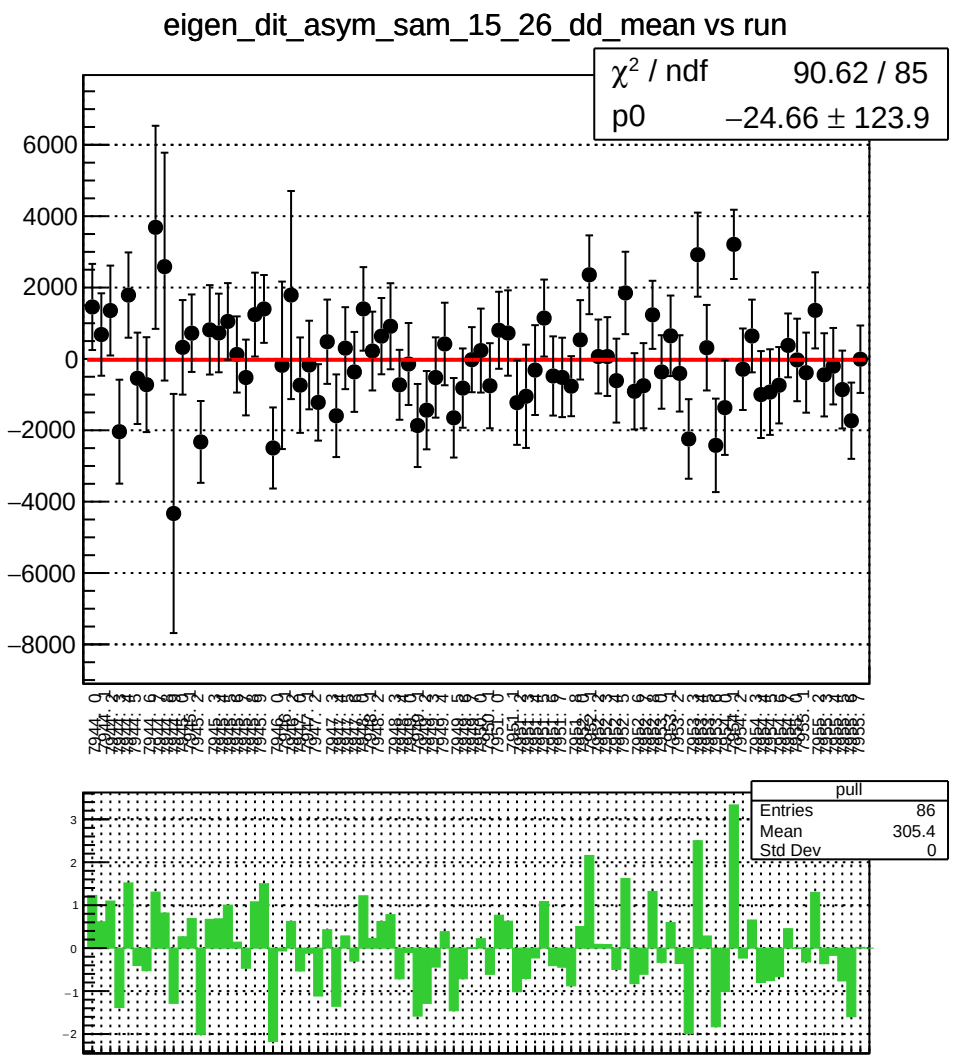

pull1D
Entries 86
Mean −0.007841
Std Dev 1.026

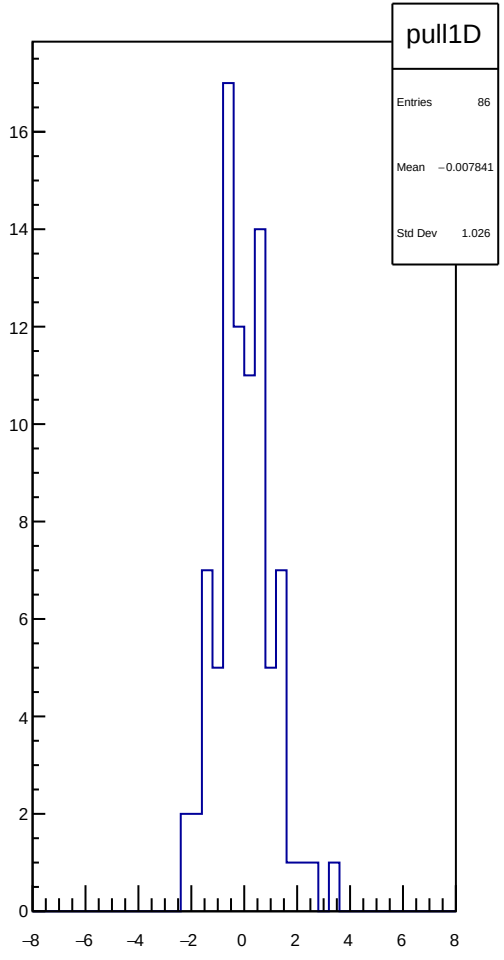

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4.159e+04 / 85
p0 110 ± 0.08759
350
300
250
200
150
100

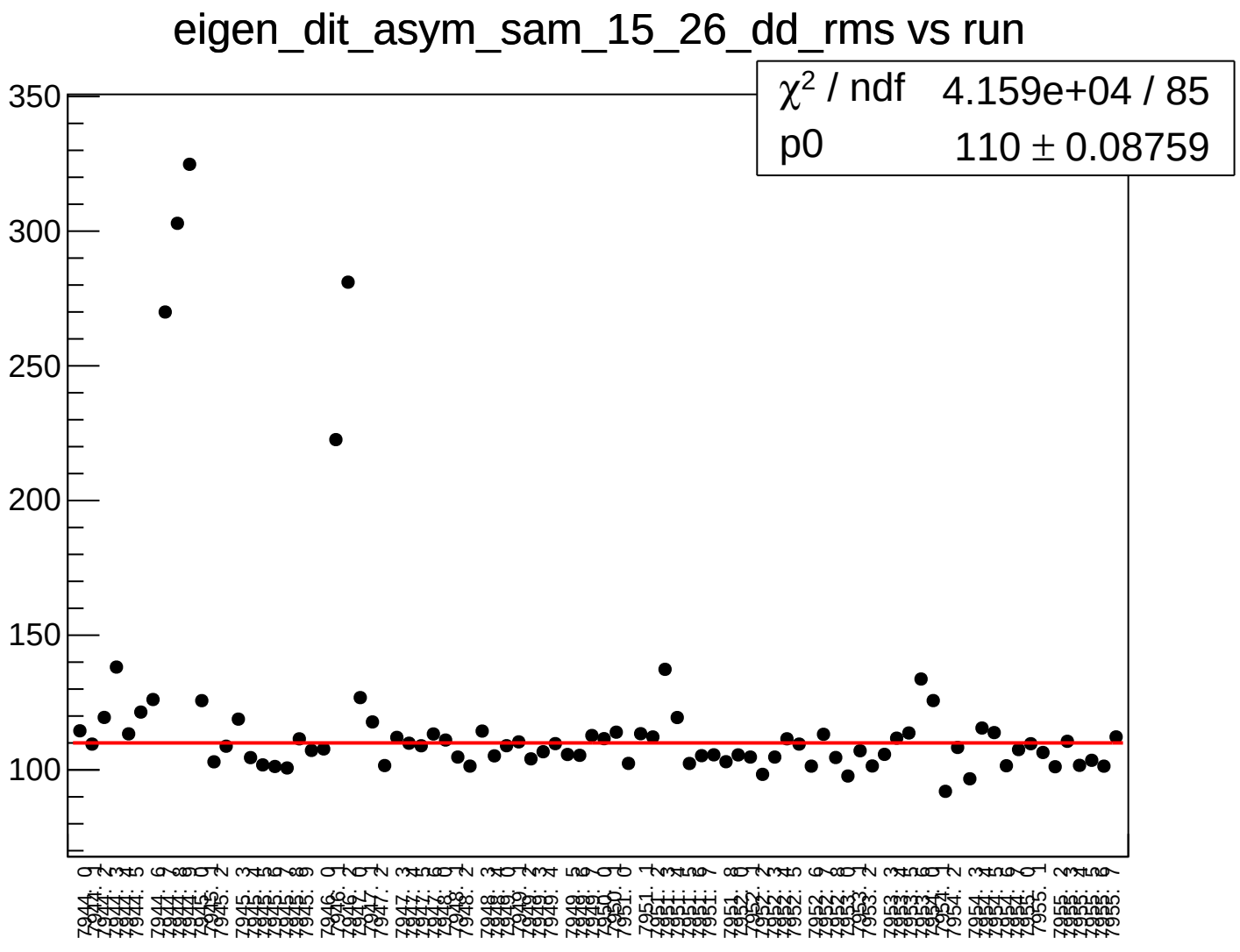

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 90.5 / 85
p0 −491.2 ± 1046
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 310.4
Std Dev 0
2
1
0
−1
−2

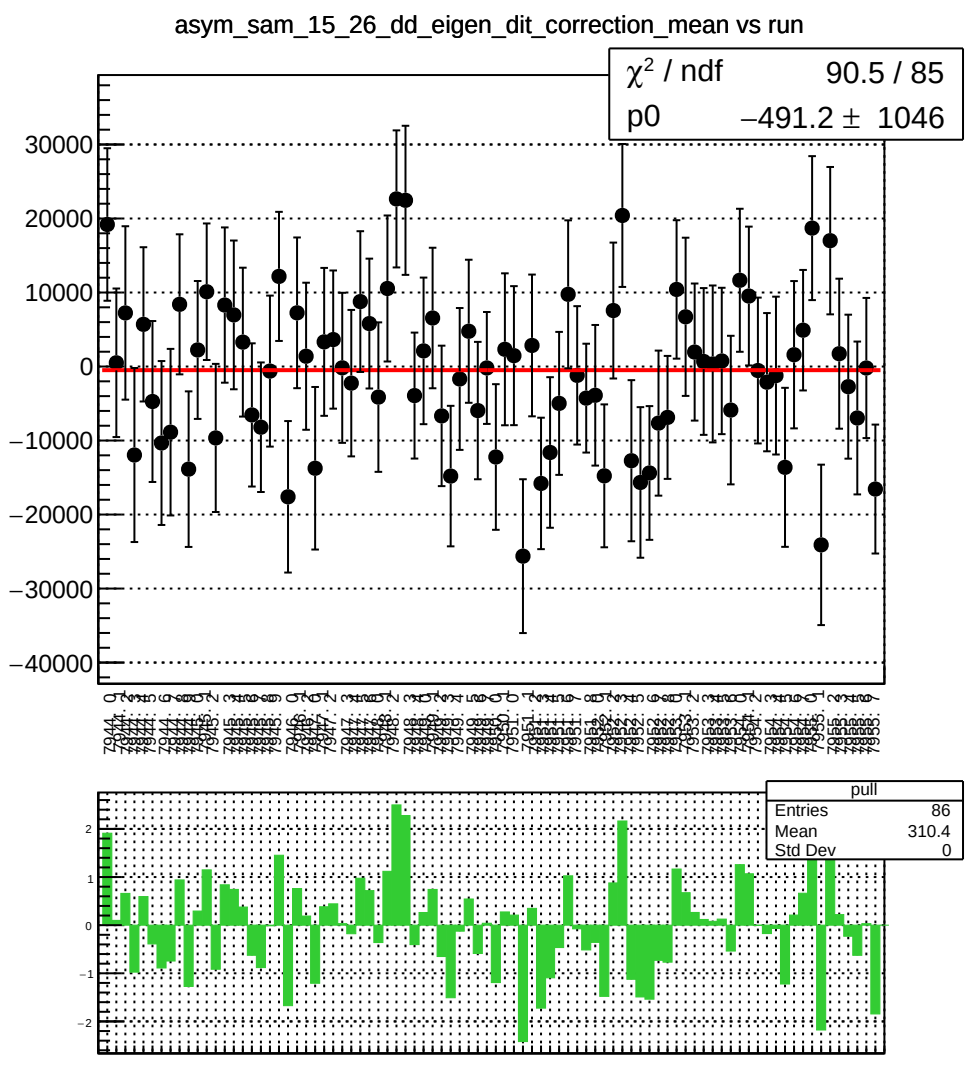

pull1D
Entries 86
Mean −0.008183
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

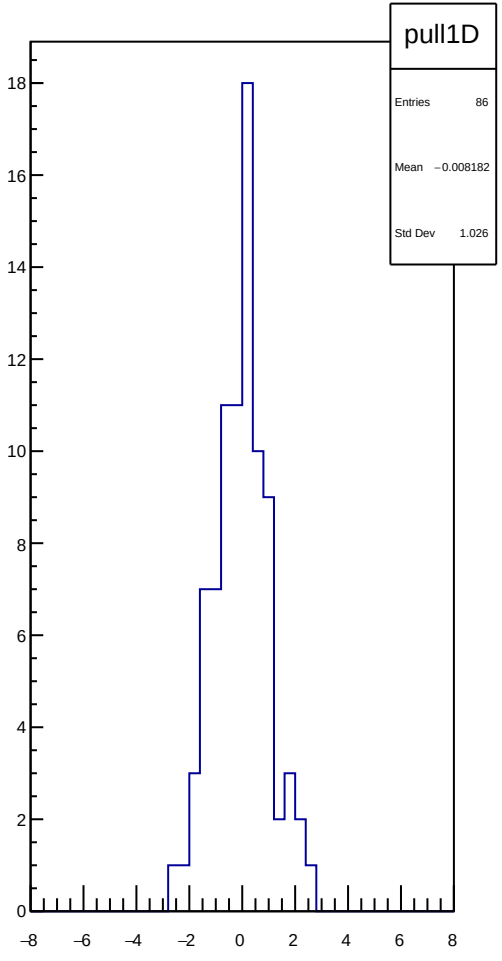

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 5422 / 85
p0 939.7 ± 0.7397
1150
1100
1050
1000
950
900
850
800

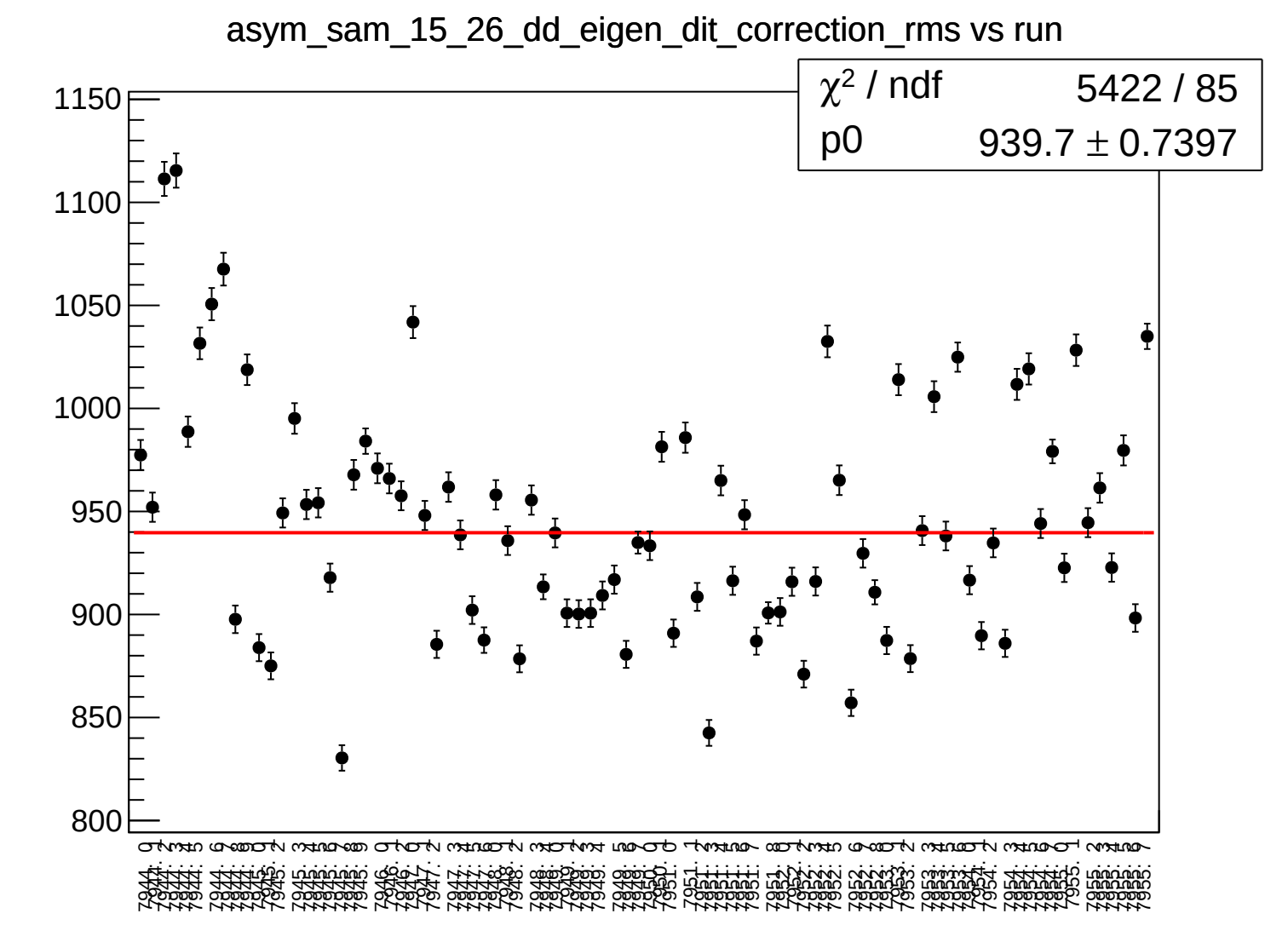

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 90.62 / 85
p0 −24.66 ± 123.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean 305.4
Std Dev 0
3
2
1
0
−1
−2

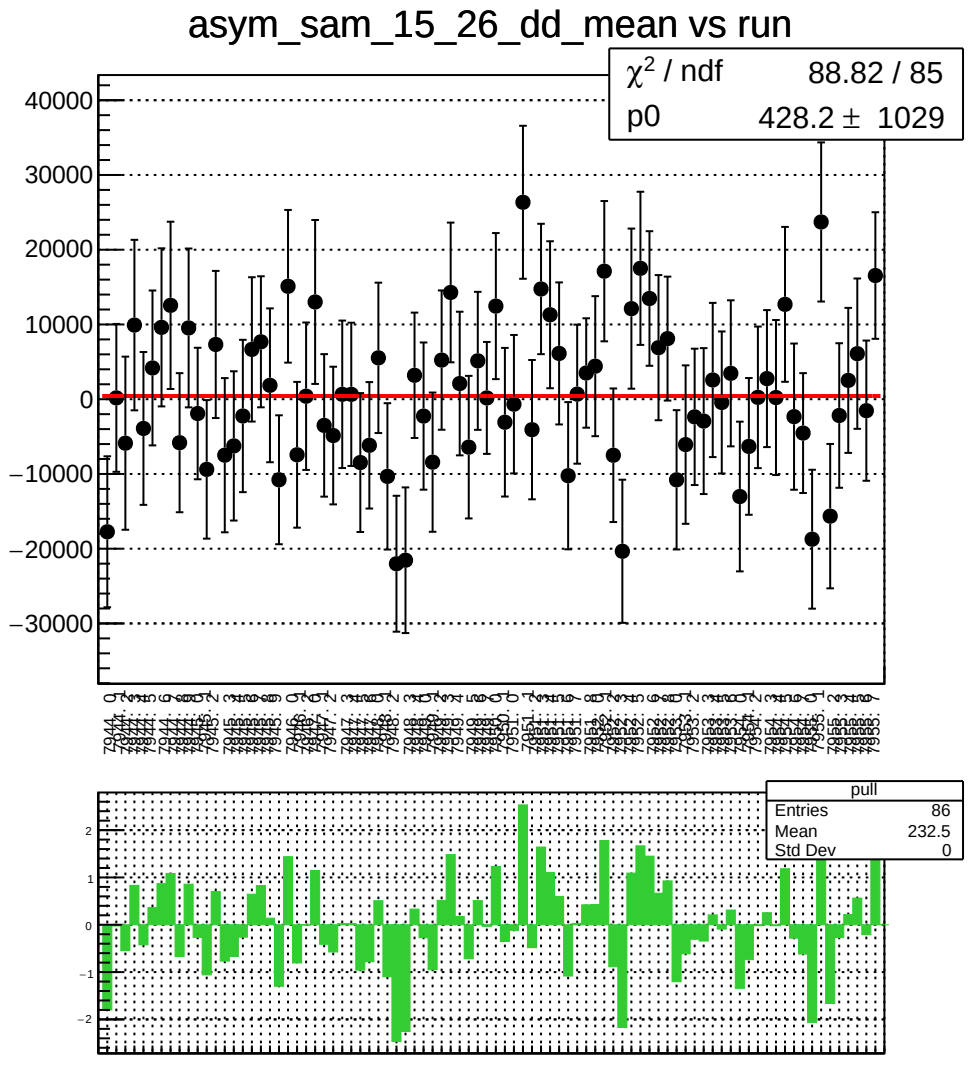

pull1D
Entries 86
Mean −0.007841
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

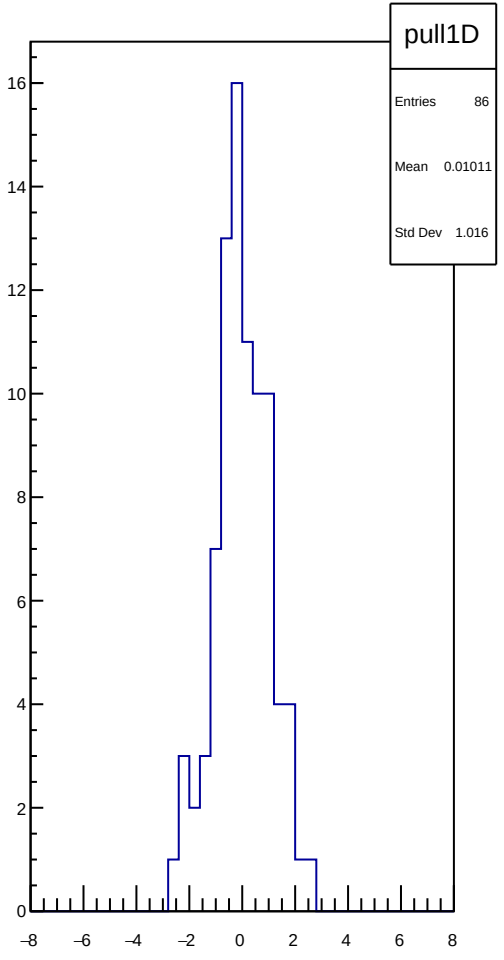

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 4.159e+04 / 85
p0 110 ± 0.08759
350
300
250
200
150
100

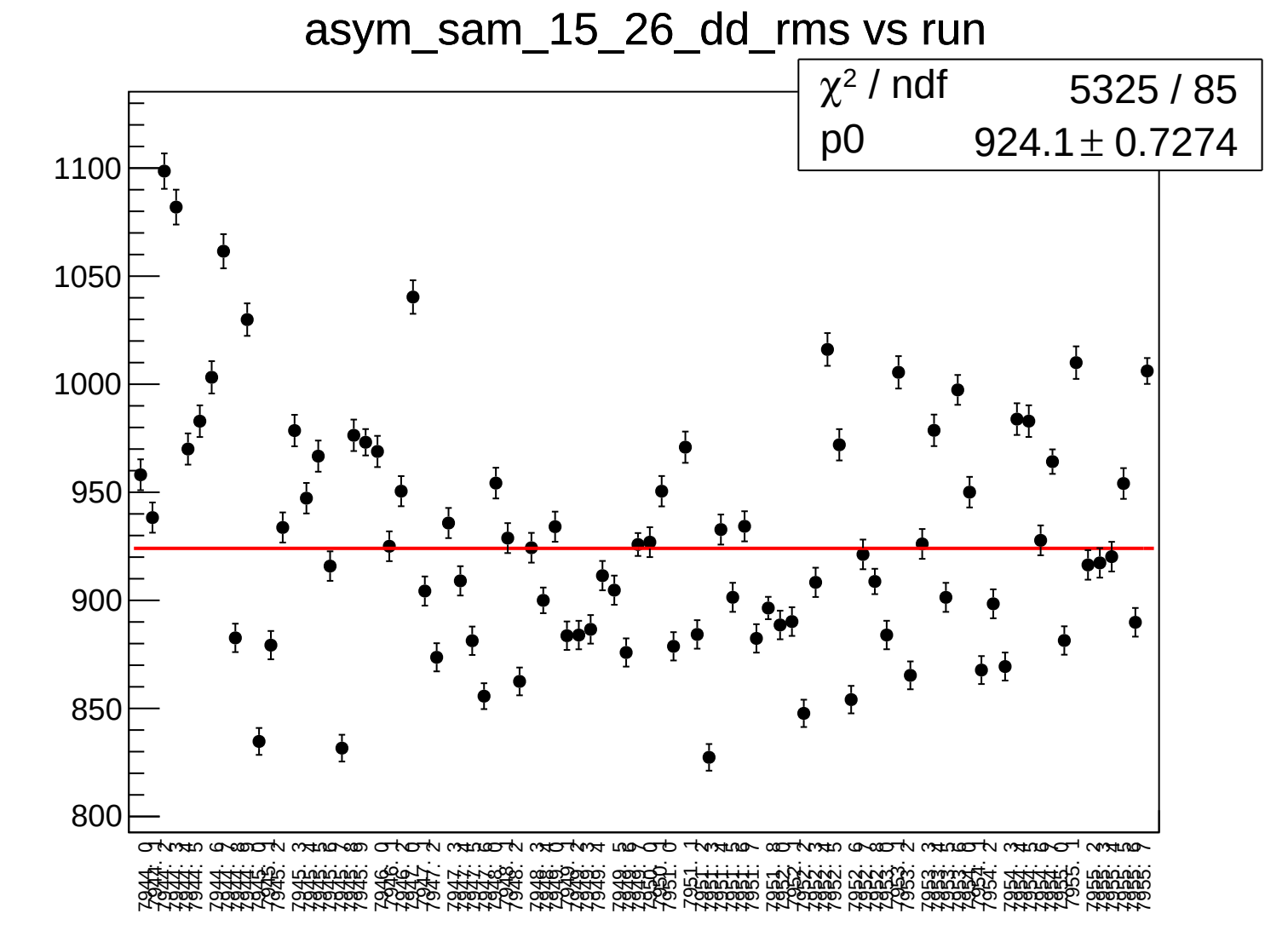

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.5 / 85
p0 −491.2 ± 1046
pull
Entries 86
Mean 310.4
Std Dev 0

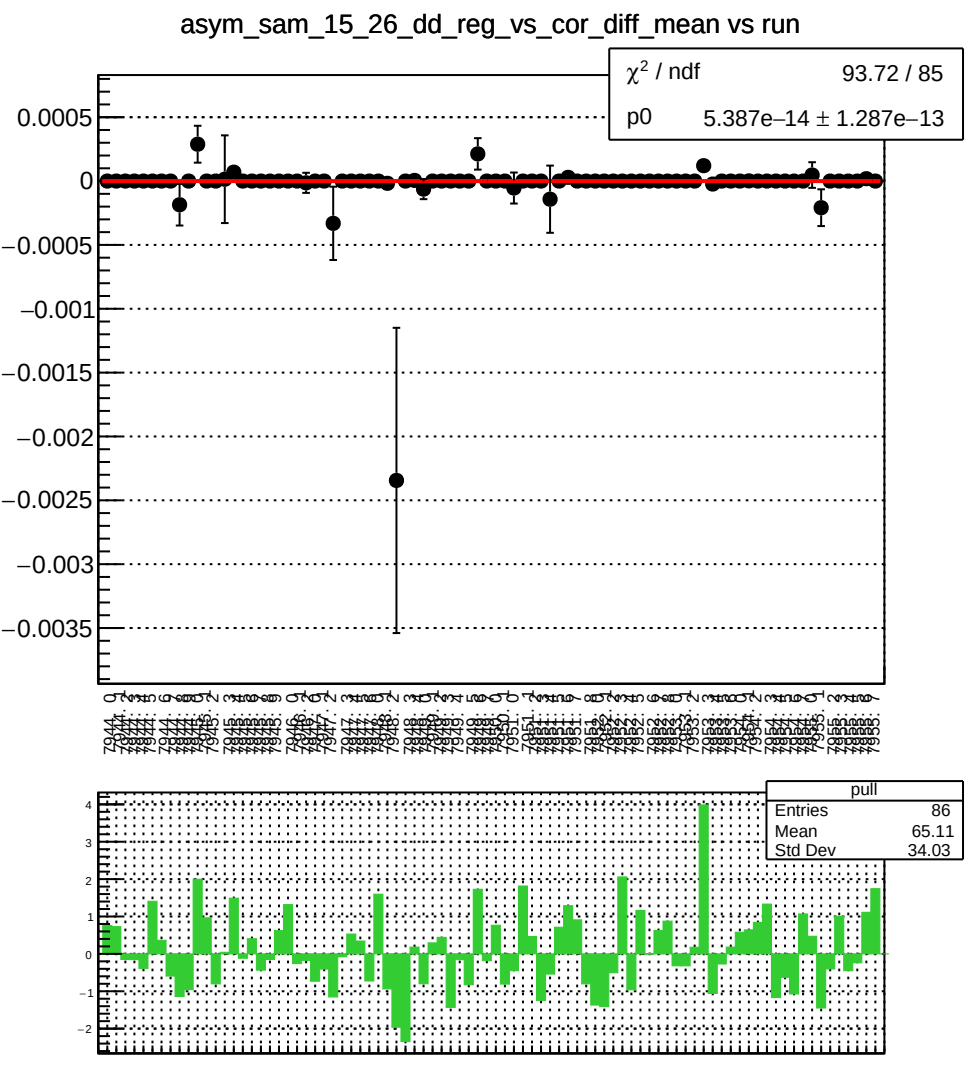

pull1D
Entries 86
Mean −0.008182
Std Dev 1.026

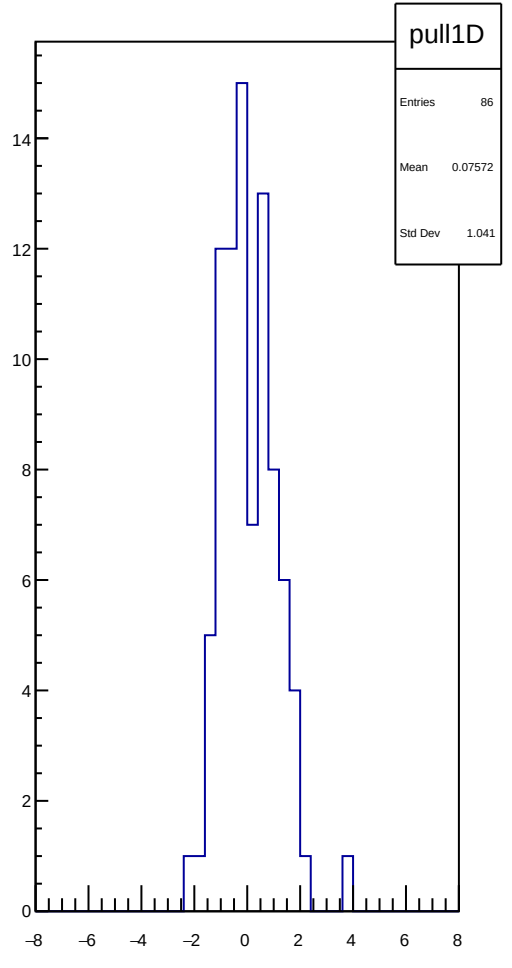

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 5422 / 85
p0 939.7 ± 0.7397
1150
1100
1050
1000
950
900
850
800

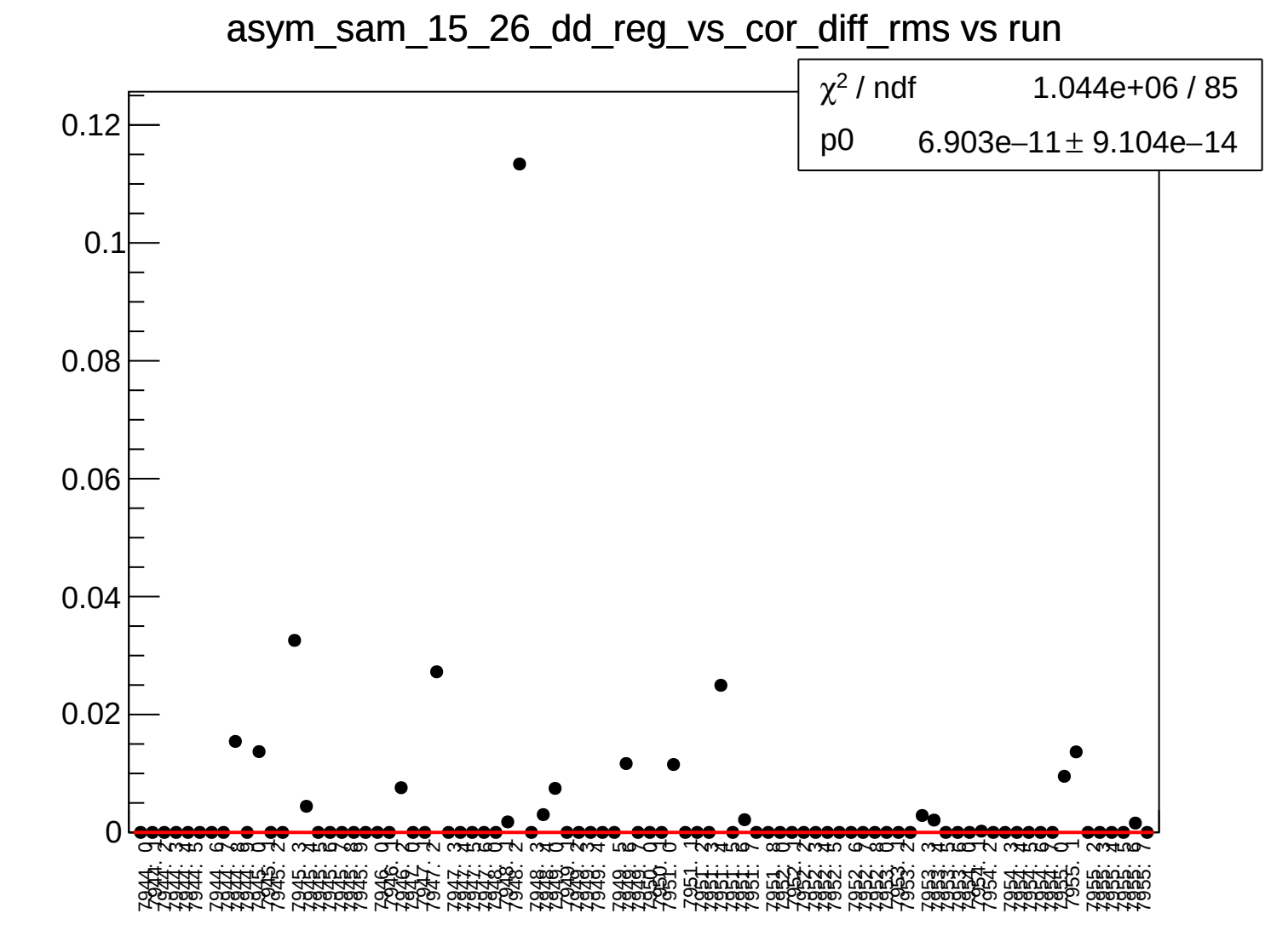

asym_sam_15_26_dd_mean vs run
χ² / ndf 88.82 / 85
p0 428.2 ± 1029
pull
Entries 86
Mean 232.5
Std Dev 0

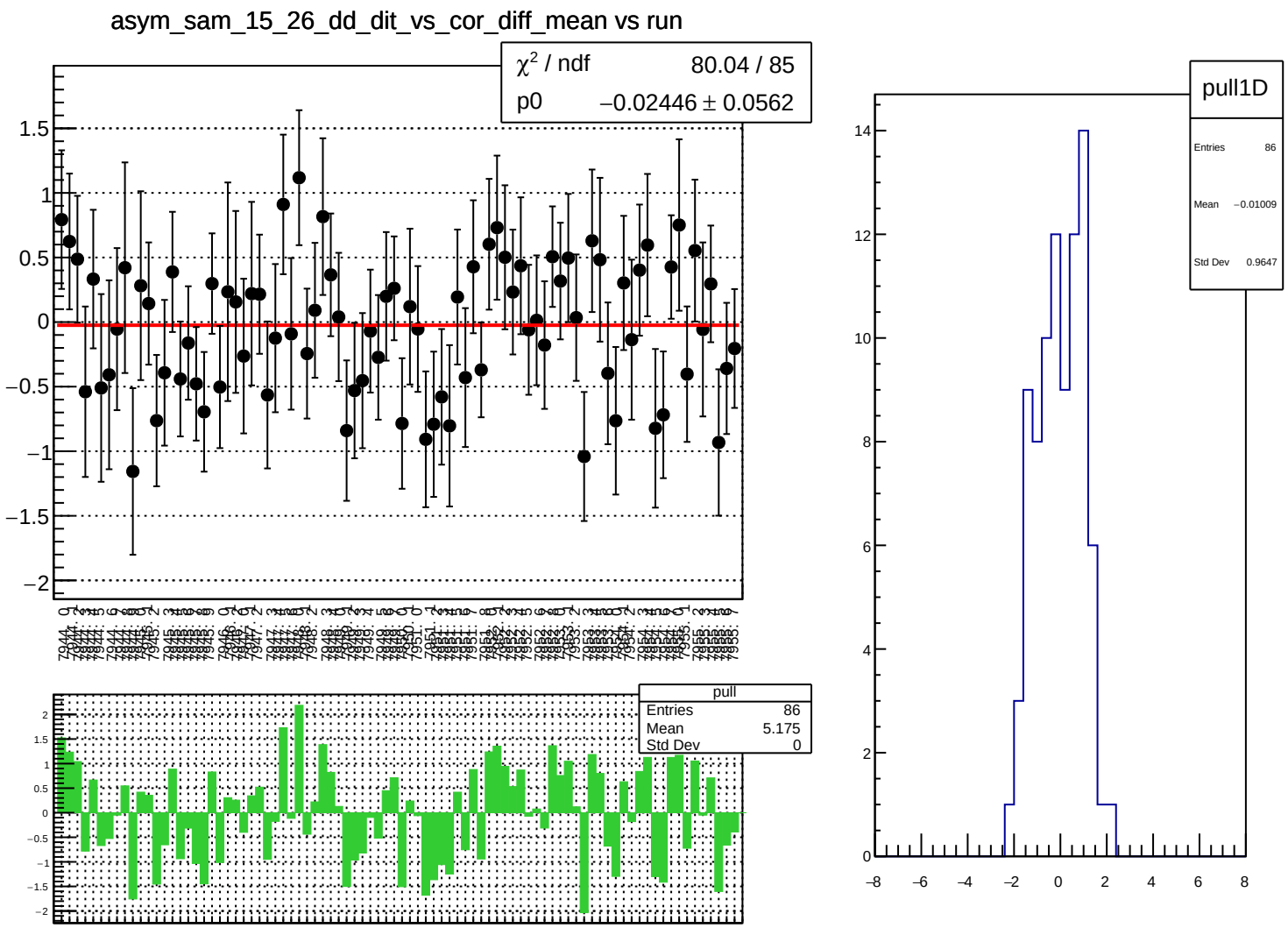

pull1D
Entries 86
Mean 0.01011
Std Dev 1.016

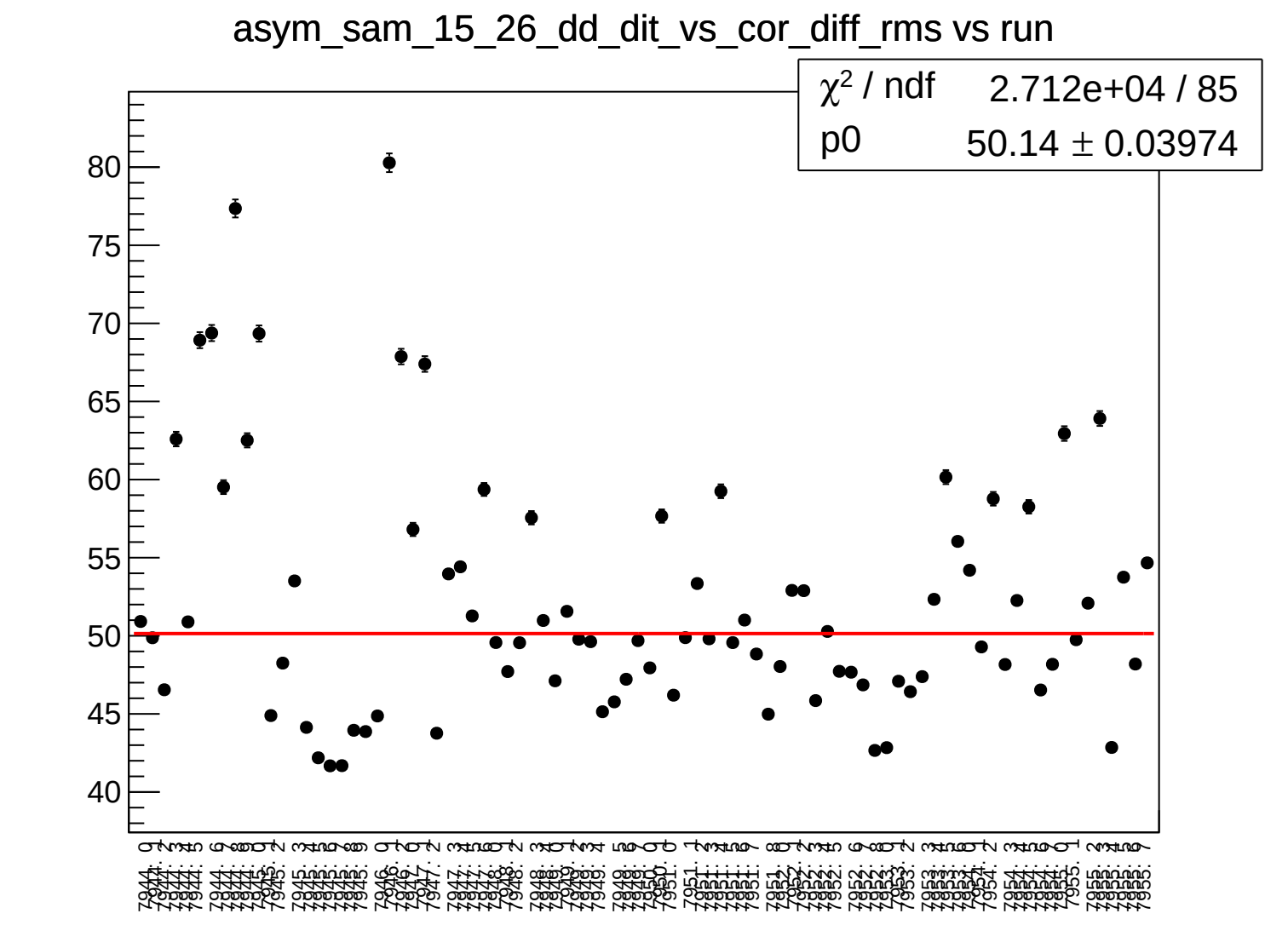

asym_sam_15_26_dd_rms vs run
χ² / ndf 5325 / 85
p0 924.1 ± 0.7274
1100
1050
1000
950
900
850
800

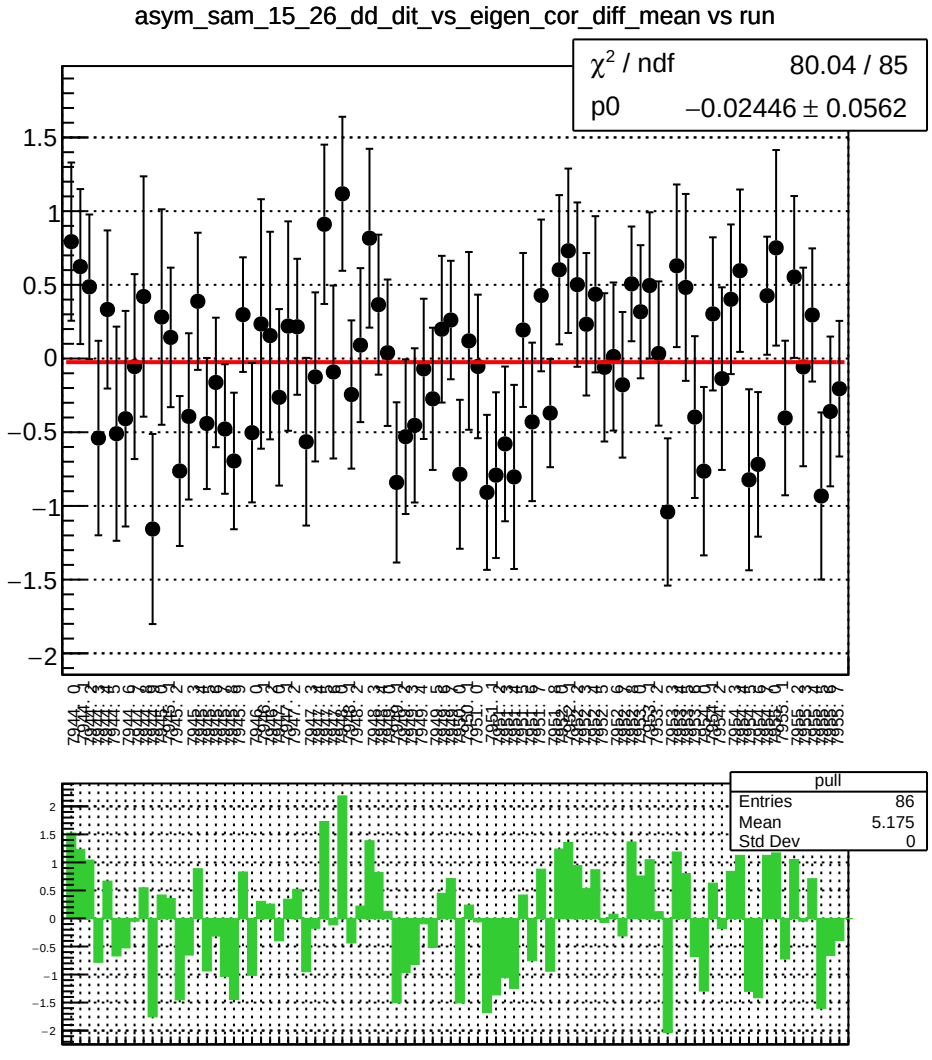

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.72 / 85
p0 5.387e−14 ± 1.287e−13
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
−0.0035
pull
Entries 86
Mean 65.11
Std Dev 34.03
4
3
2
1
0
−1
−2

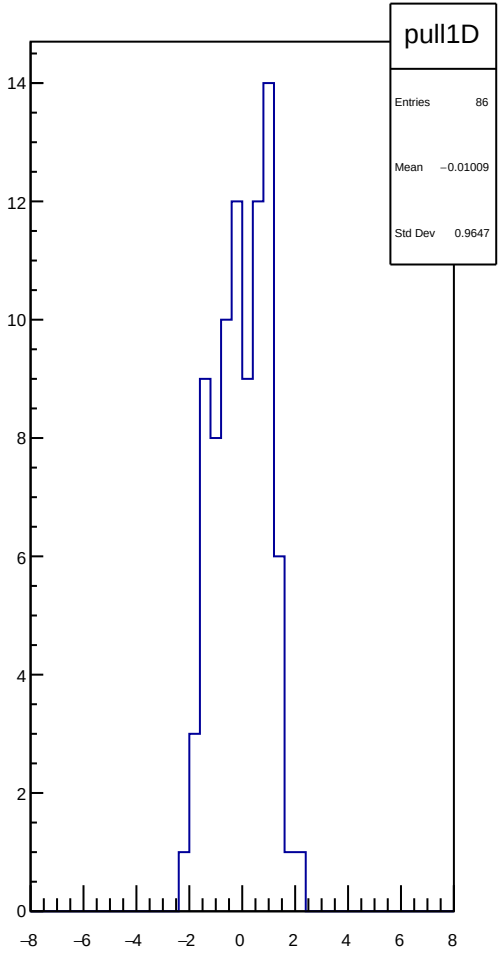

pull1D
Entries 86
Mean 0.07572
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

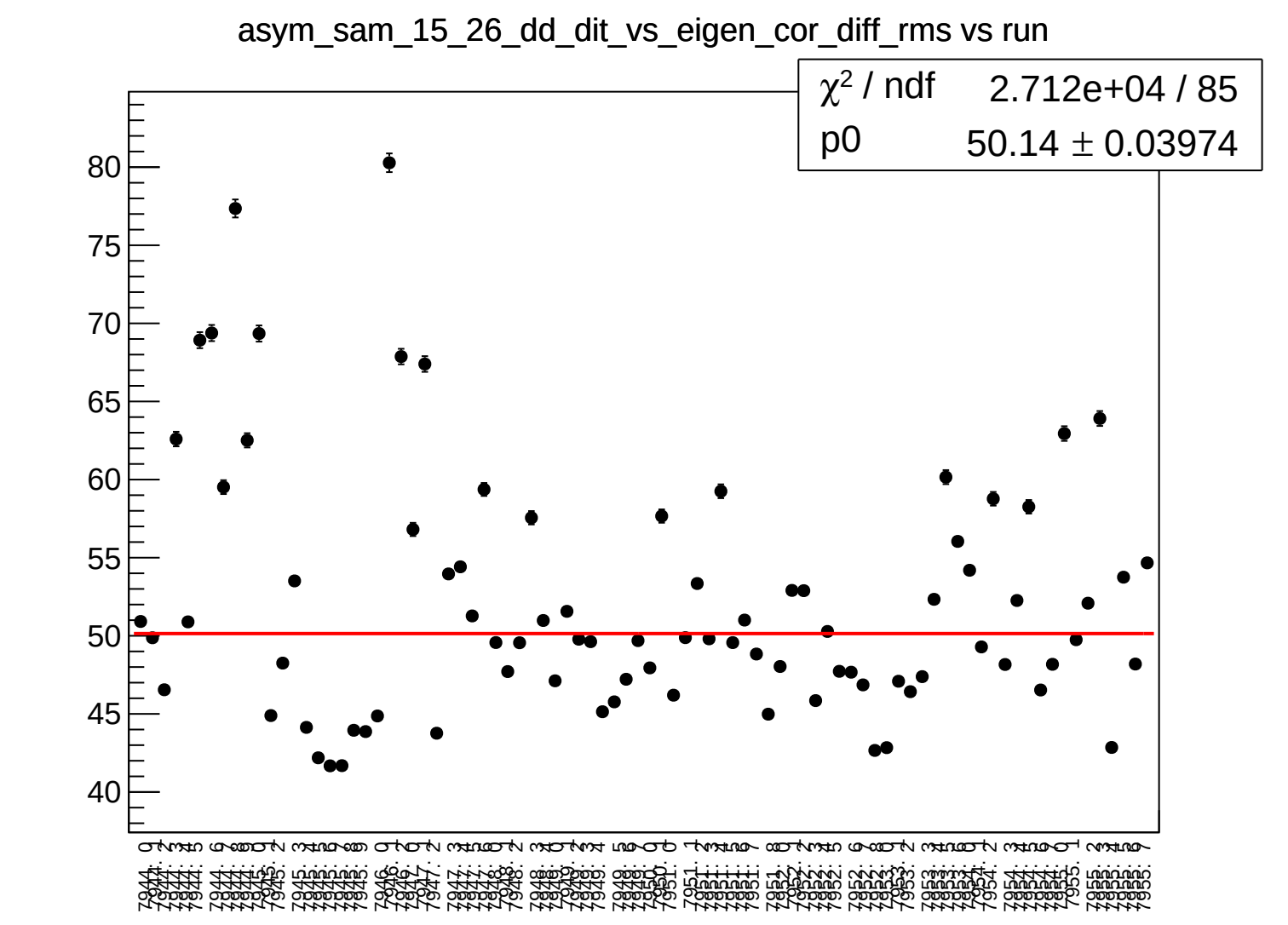

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.044e+06 / 85
p0 6.903e−11 ± 9.104e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

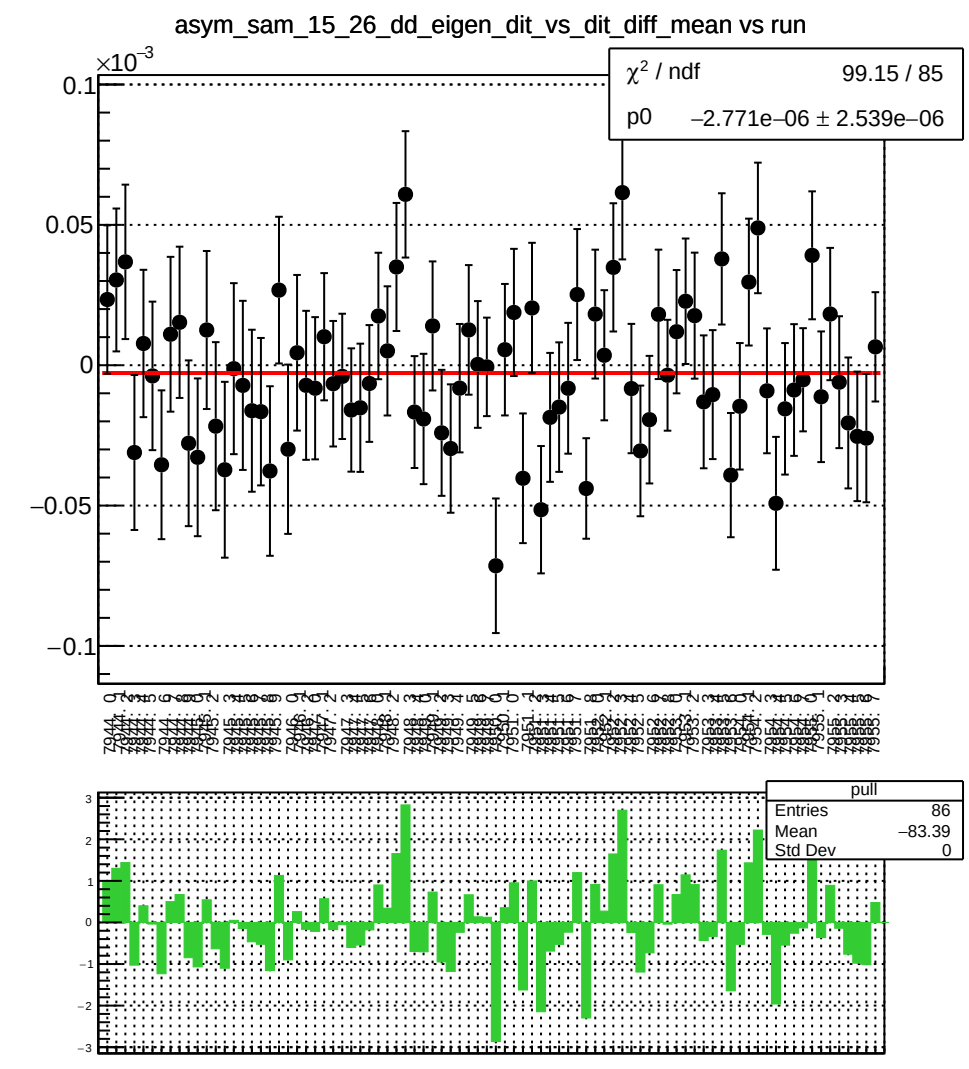

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.04 / 85
p0 −0.02446 ± 0.0562
pull
Entries 86
Mean 5.175
Std Dev 0
pull1D
Entries 86
Mean −0.01009
Std Dev 0.9647

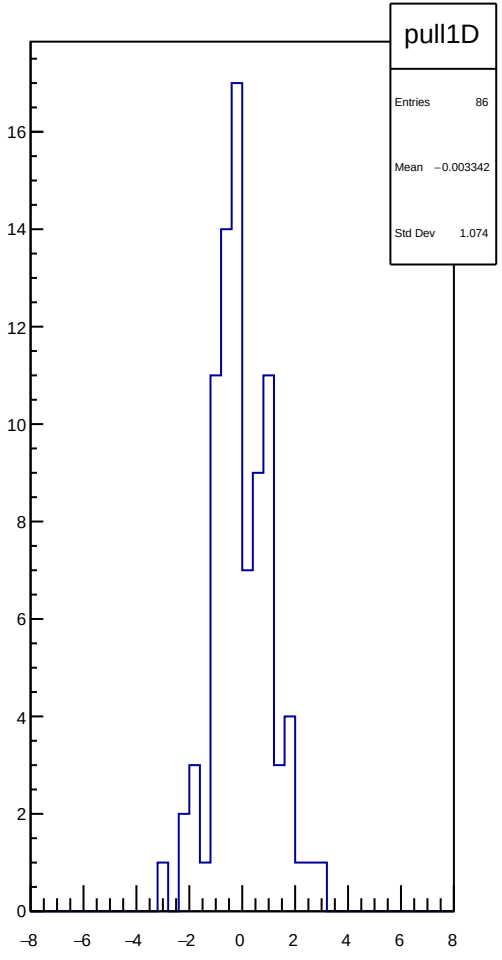

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.712e+04 / 85
p0 50.14 ± 0.03974
80
75
70
65
60
55
50
45
40

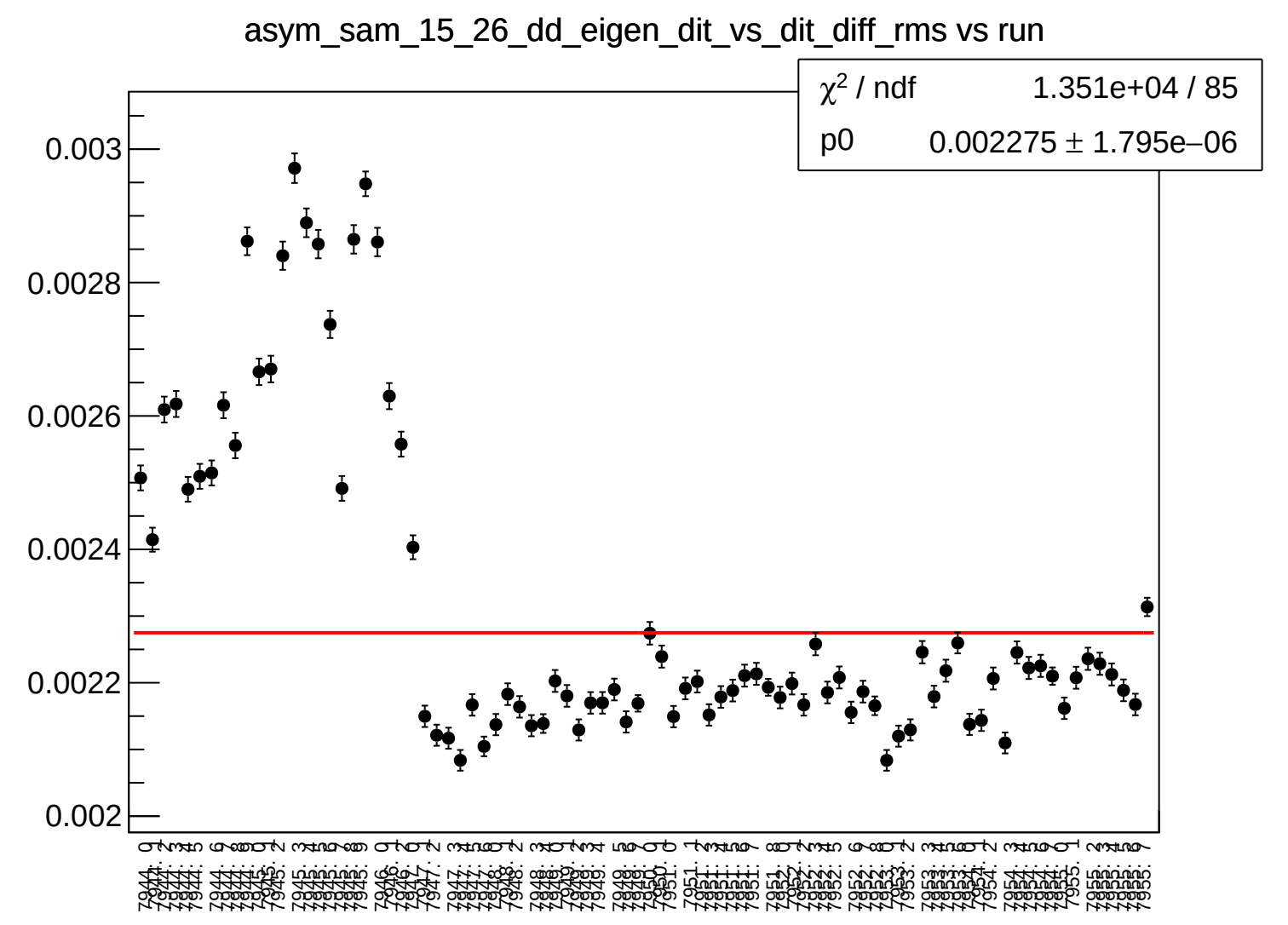

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.04 / 85
p0 −0.02446 ± 0.0562
pull
Entries 86
Mean 5.175
Std Dev 0

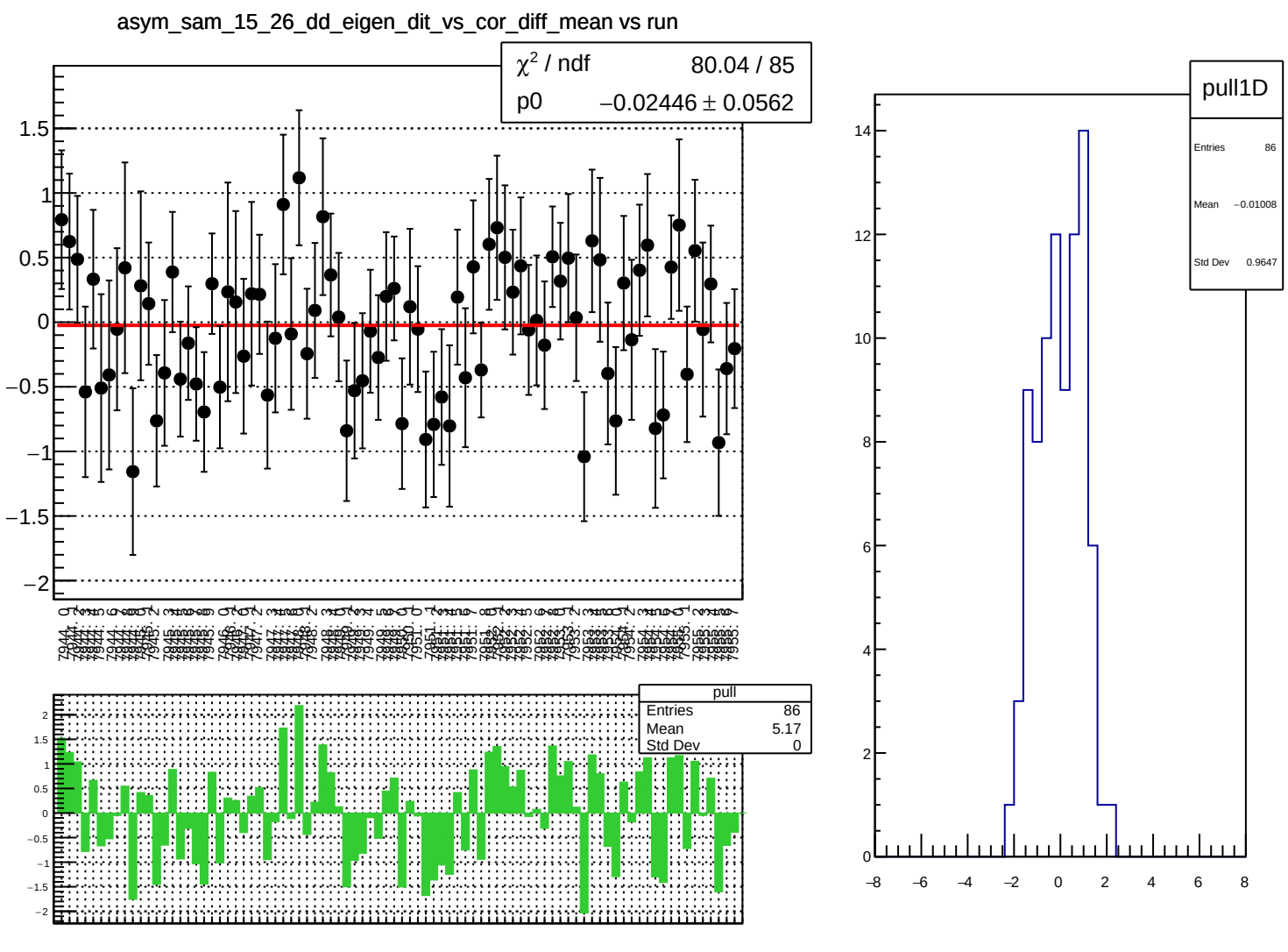

pull1D
Entries 86
Mean −0.01009
Std Dev 0.9647

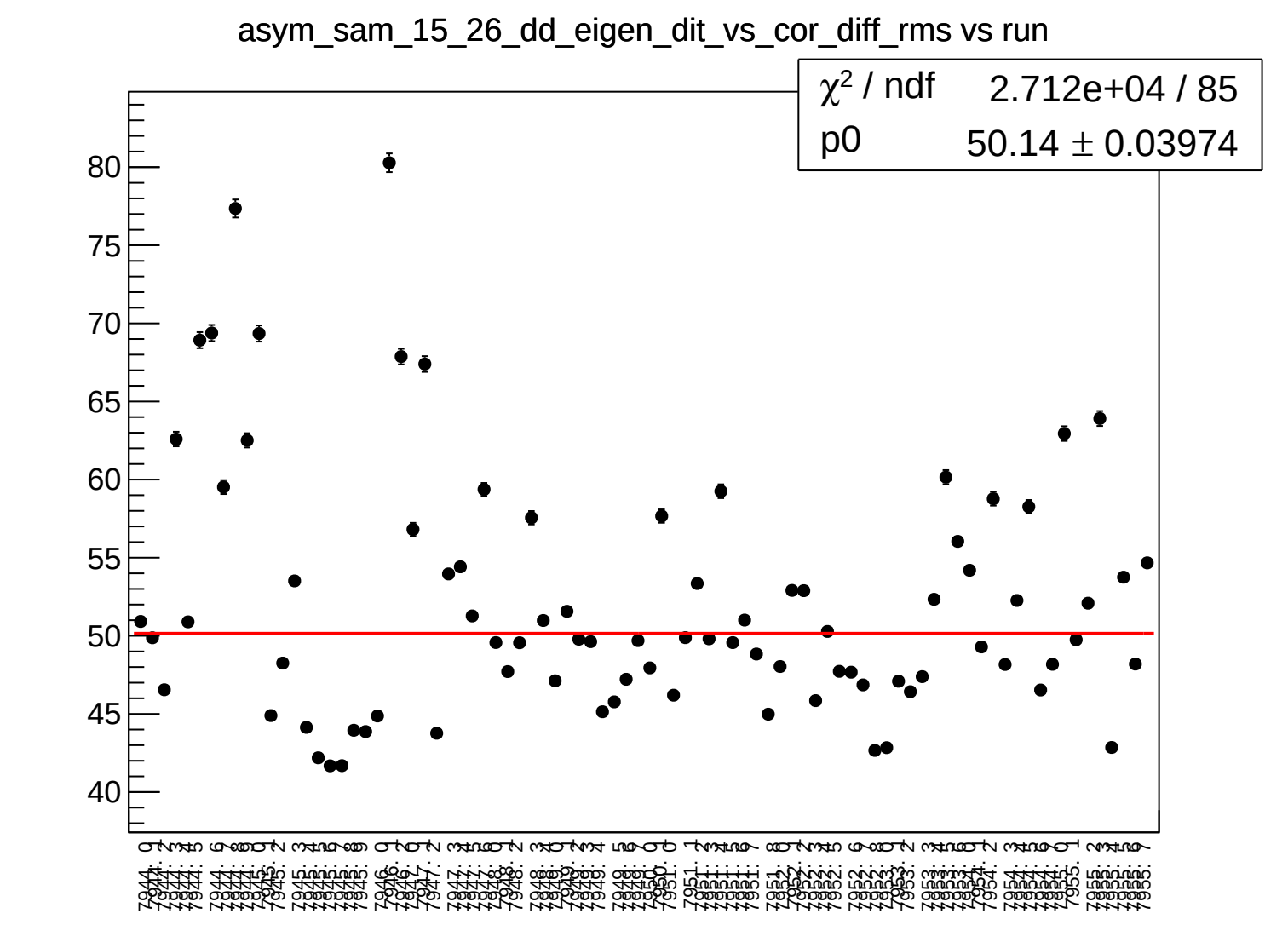

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.712e+04 / 85
p0 50.14 ± 0.03974
80
75
70
65
60
55
50
45
40

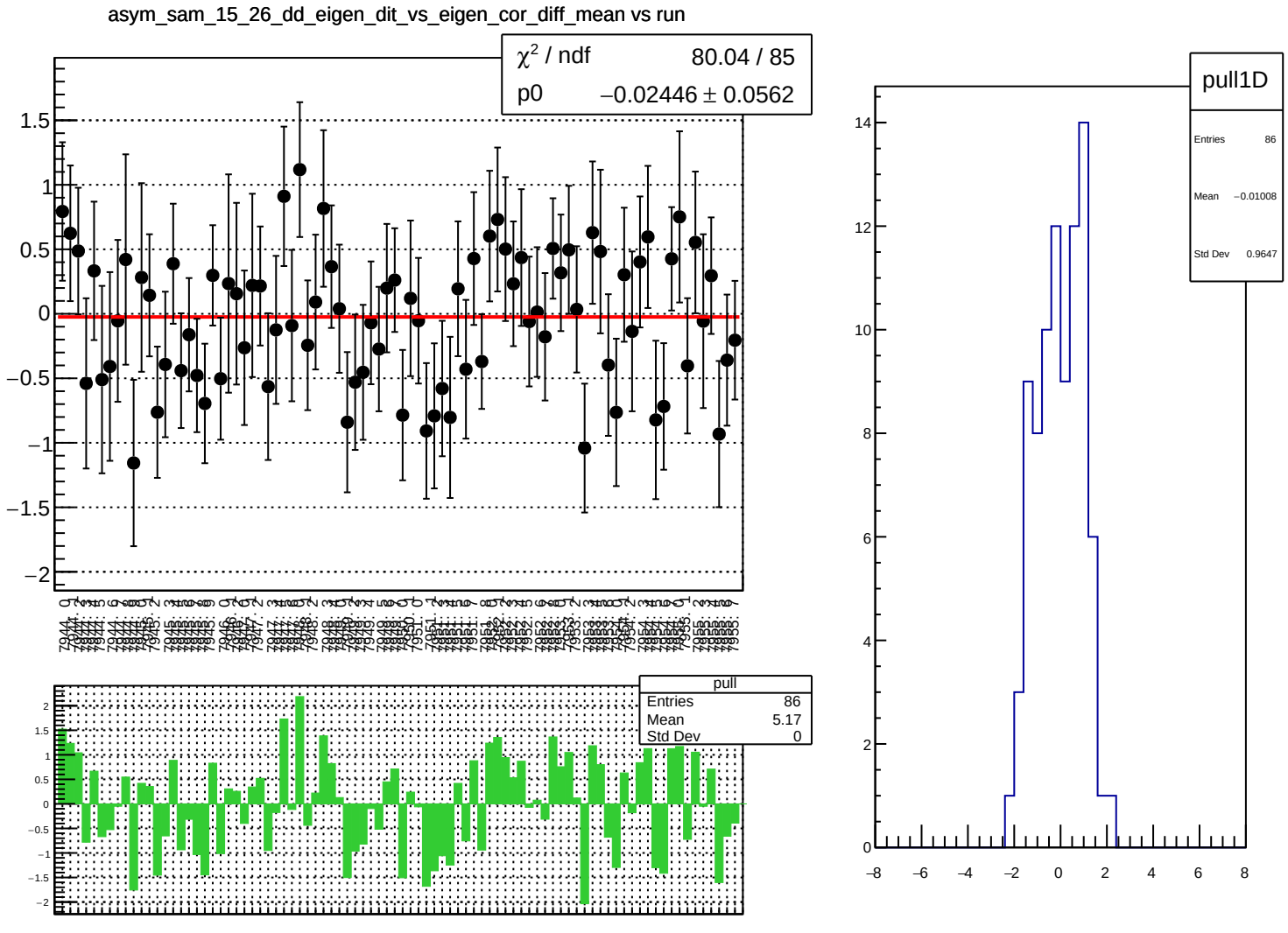

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 99.15 / 85
p0 −2.771e−06 ± 2.539e−06
pull
Entries 86
Mean −83.39
Std Dev 0

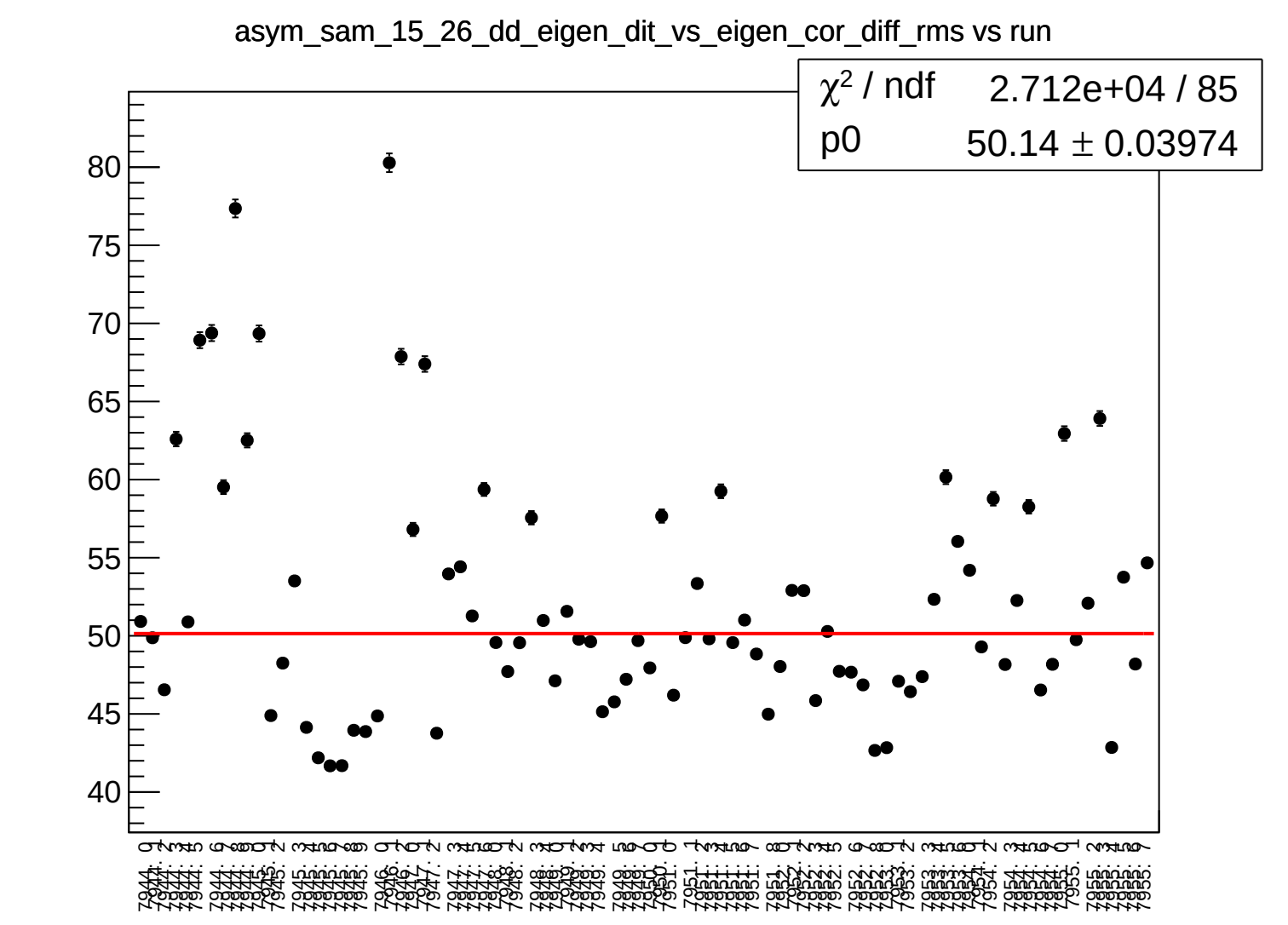

pull1D
Entries 86
Mean −0.003342
Std Dev 1.074

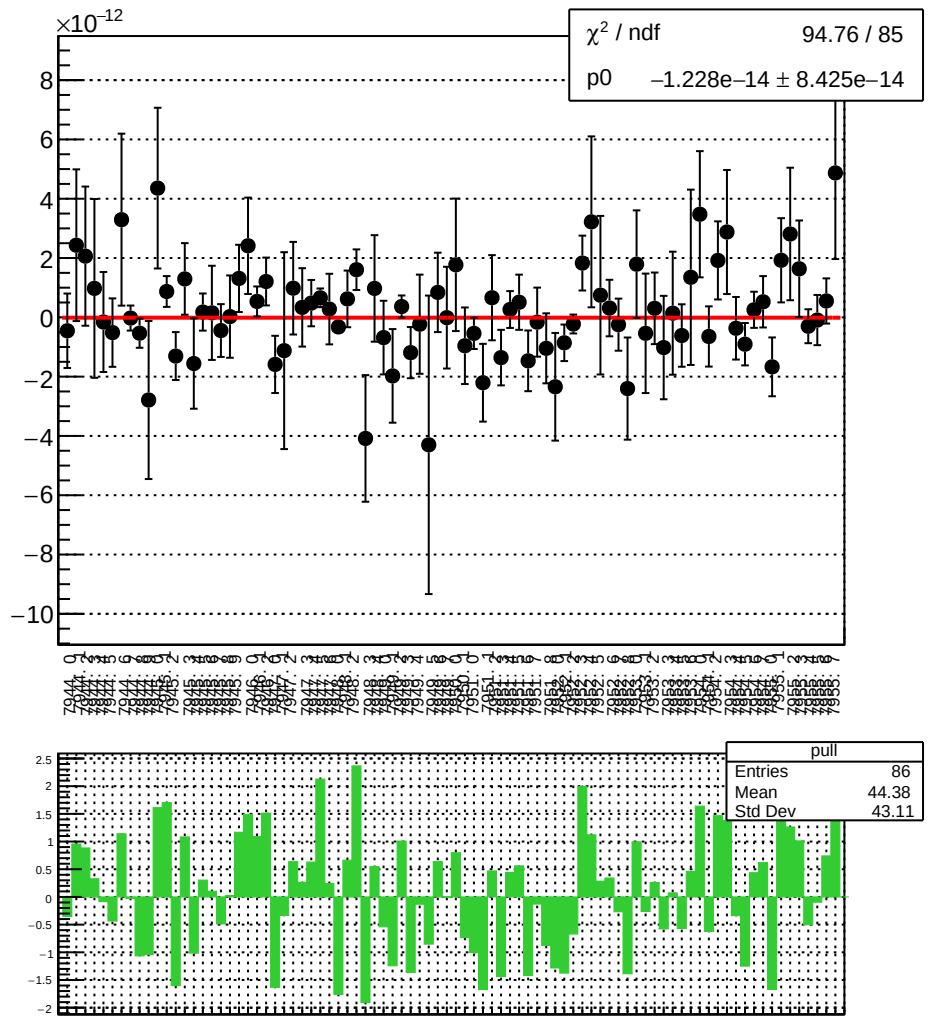

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.351e+04 / 85
p0 0.002275 ± 1.795e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

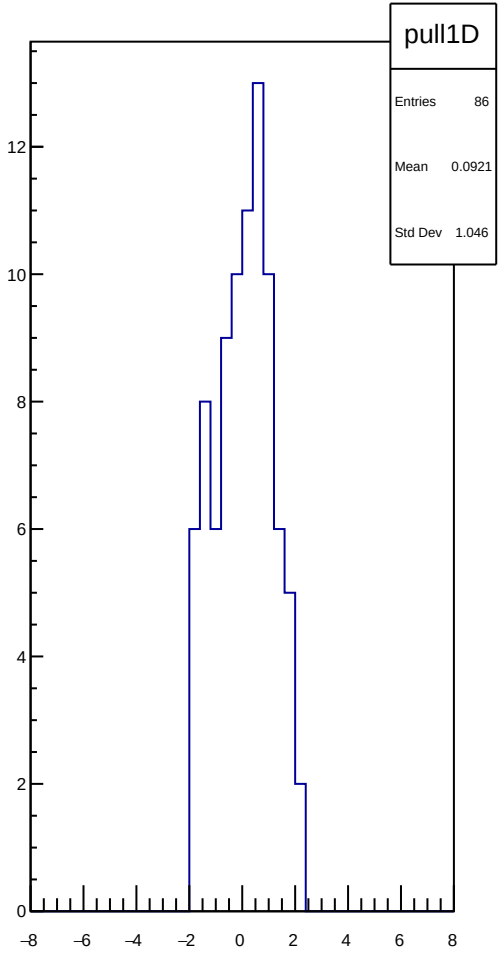

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.04 / 85
p0 −0.02446 ± 0.0562
pull
Entries 86
Mean 5.17
Std Dev 0
pull1D
Entries 86
Mean −0.01008
Std Dev 0.9647

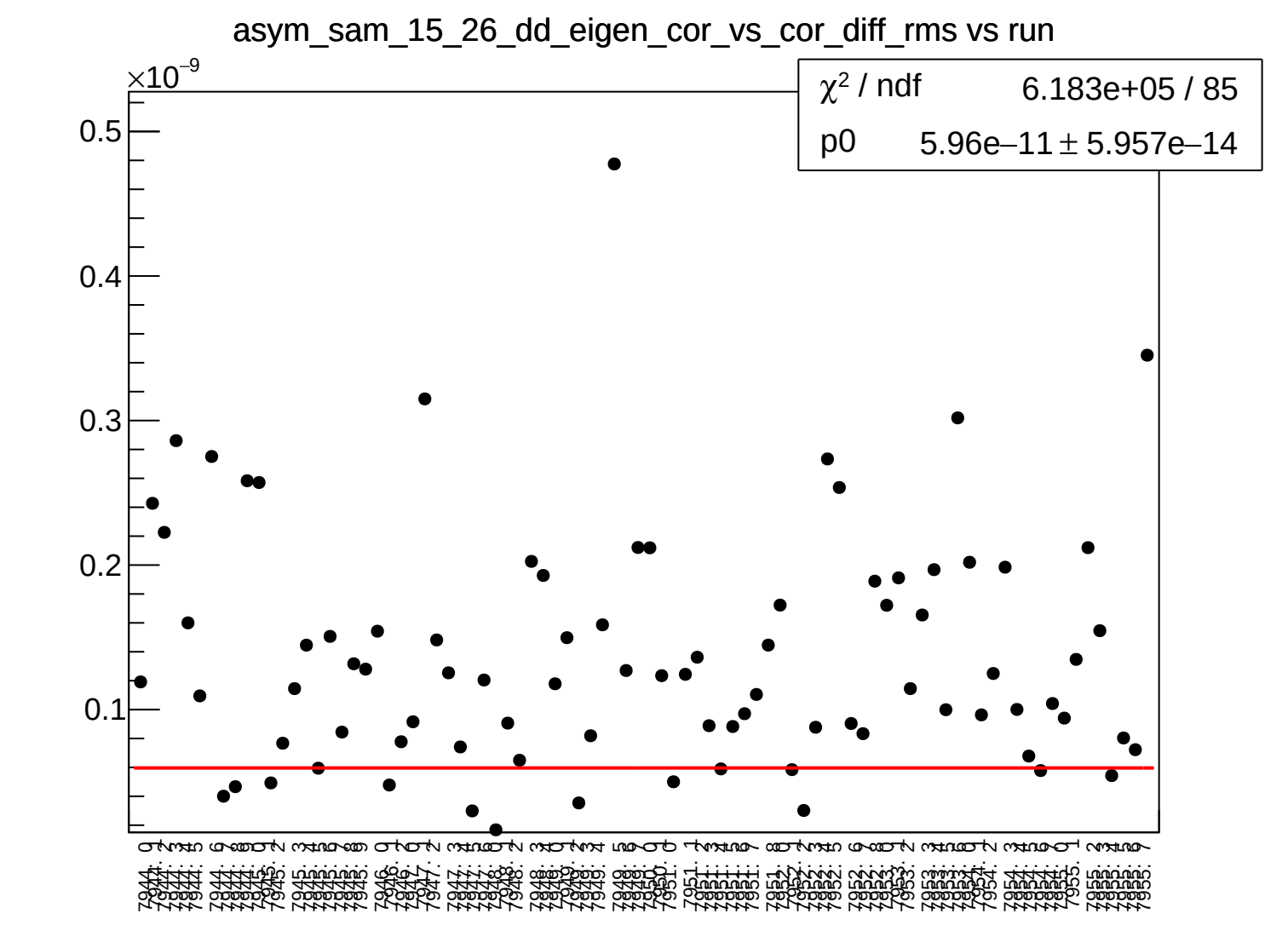

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.712e+04 / 85
p0 50.14 ± 0.03974
80
75
70
65
60
55
50
45
40

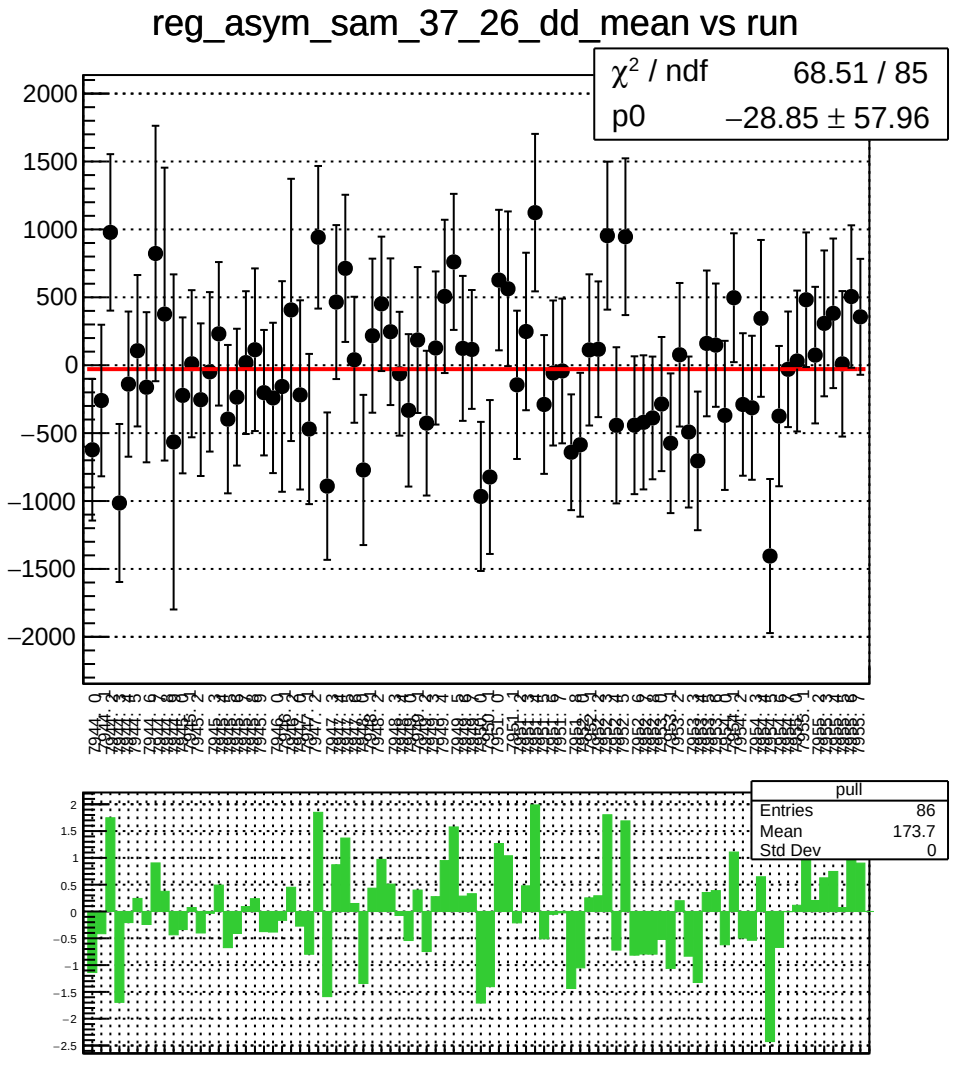

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.04 / 85
p0 −0.02446 ± 0.0562
pull
Entries 86
Mean 5.17
Std Dev 0
pull1D
Entries 86
Mean −0.01008
Std Dev 0.9647

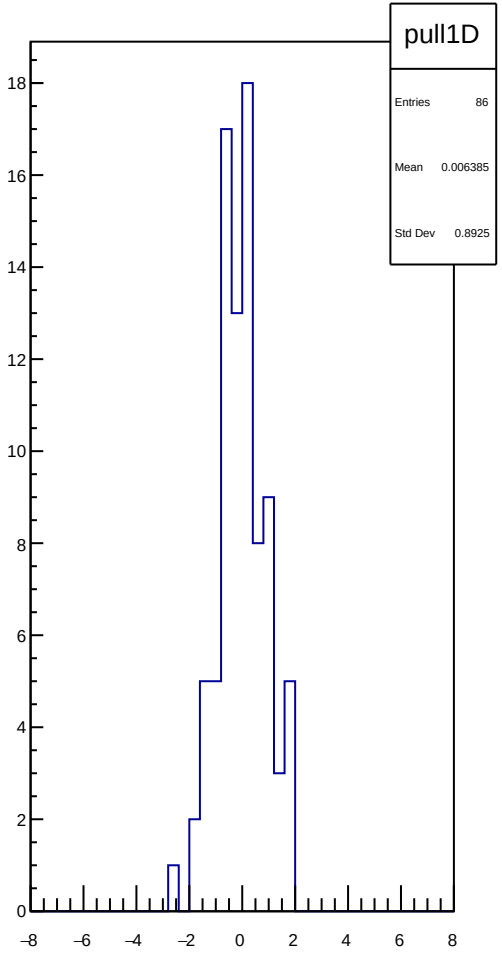

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.712e+04 / 85
p0 50.14 ± 0.03974
80
75
70
65
60
55
50
45
40

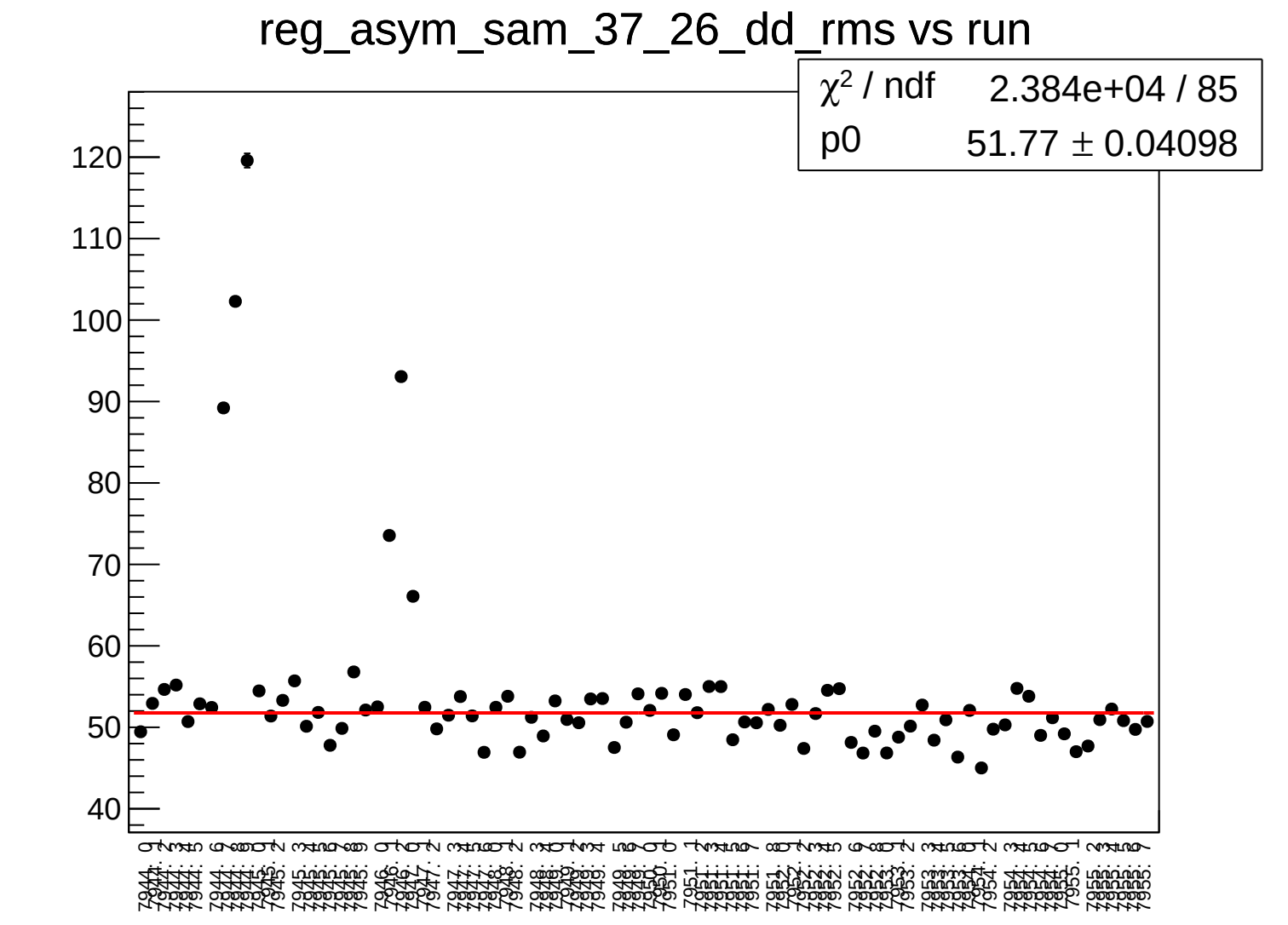

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.76 / 85
p0 −1.228e−14 ± 8.425e−14
pull
Entries 86
Mean 44.38
Std Dev 43.11

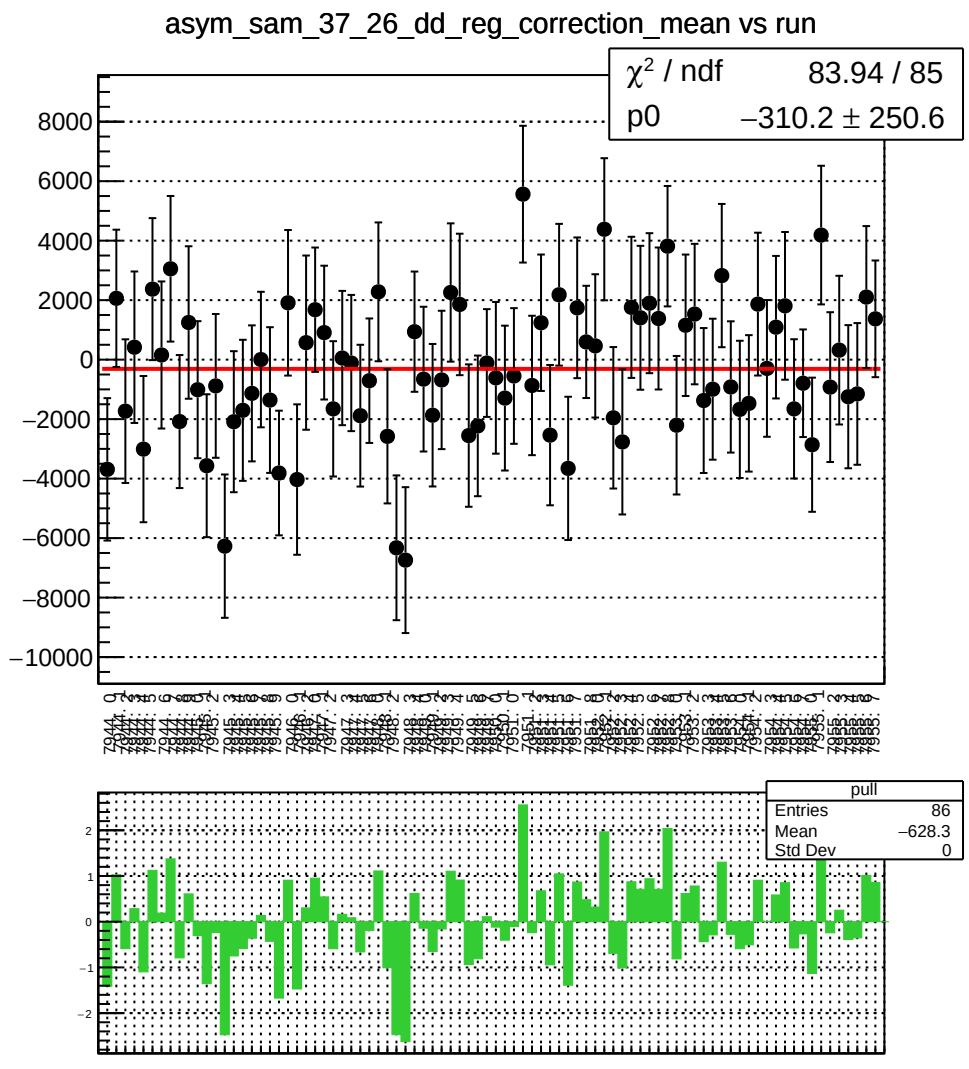

pull1D
Entries 86
Mean 0.0921
Std Dev 1.046

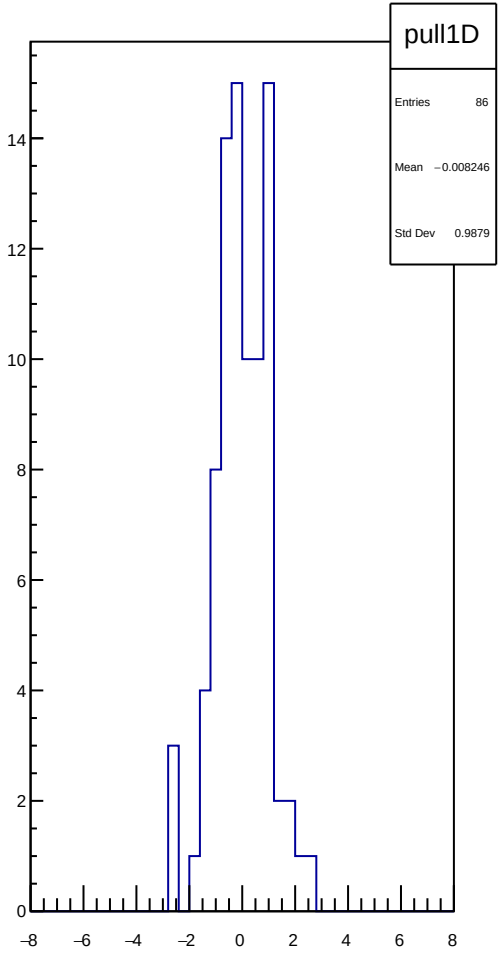

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.183e+05 / 85
p0 5.96e−11 ± 5.957e−14
0.5
0.4
0.3
0.2
0.1

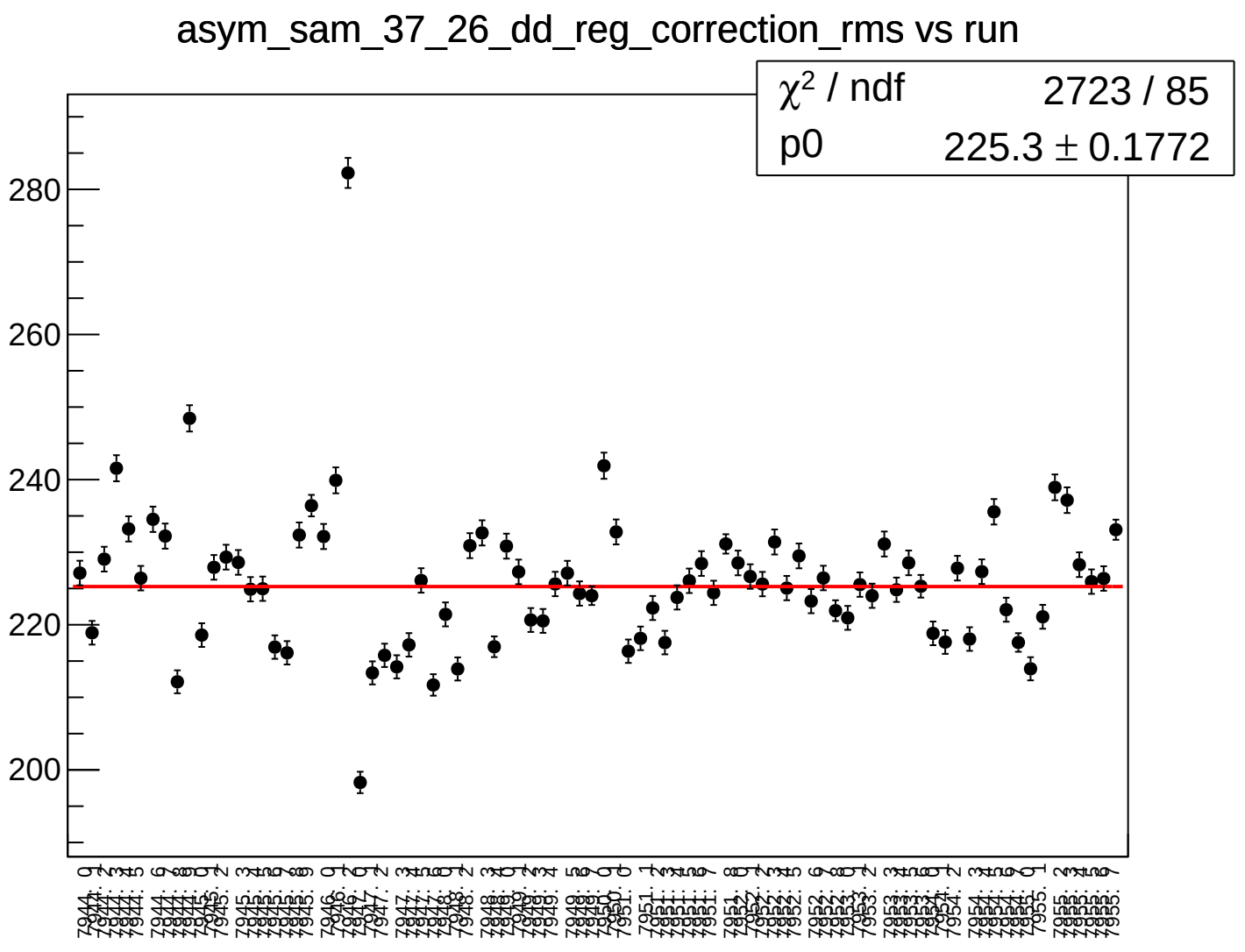

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 68.51 / 85
p0 −28.85 ± 57.96
pull
Entries 86
Mean 173.7
Std Dev 0

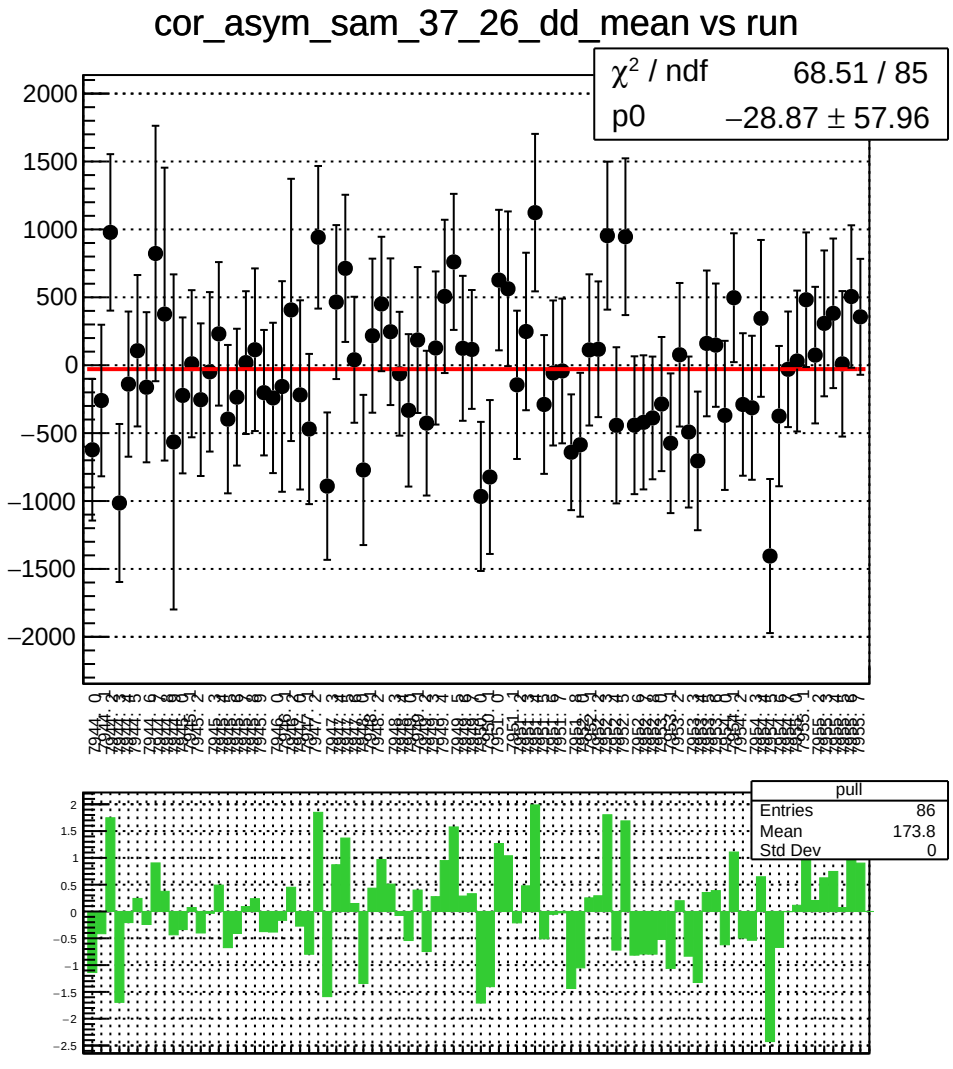

pull1D
Entries 86
Mean 0.006385
Std Dev 0.8925

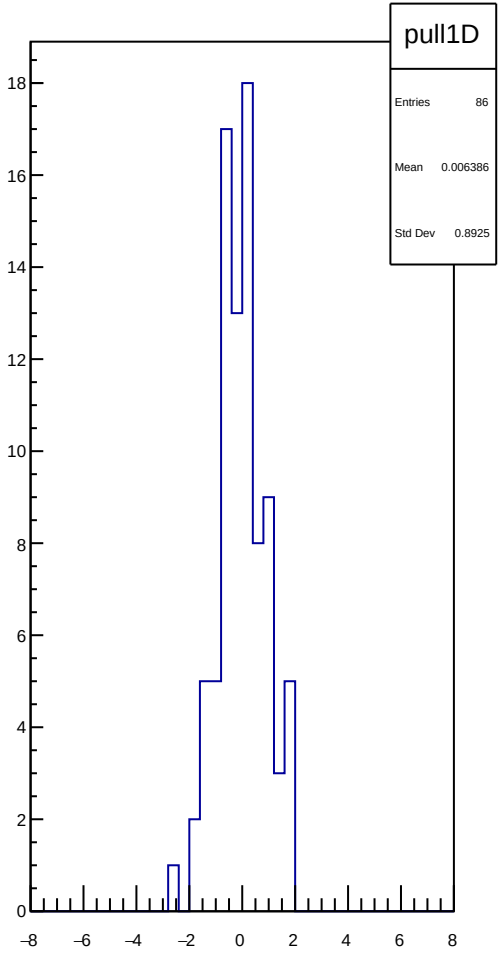

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2.384e+04 / 85
p0 51.77 ± 0.04098
120
110
100
90
80
70
60
50
40

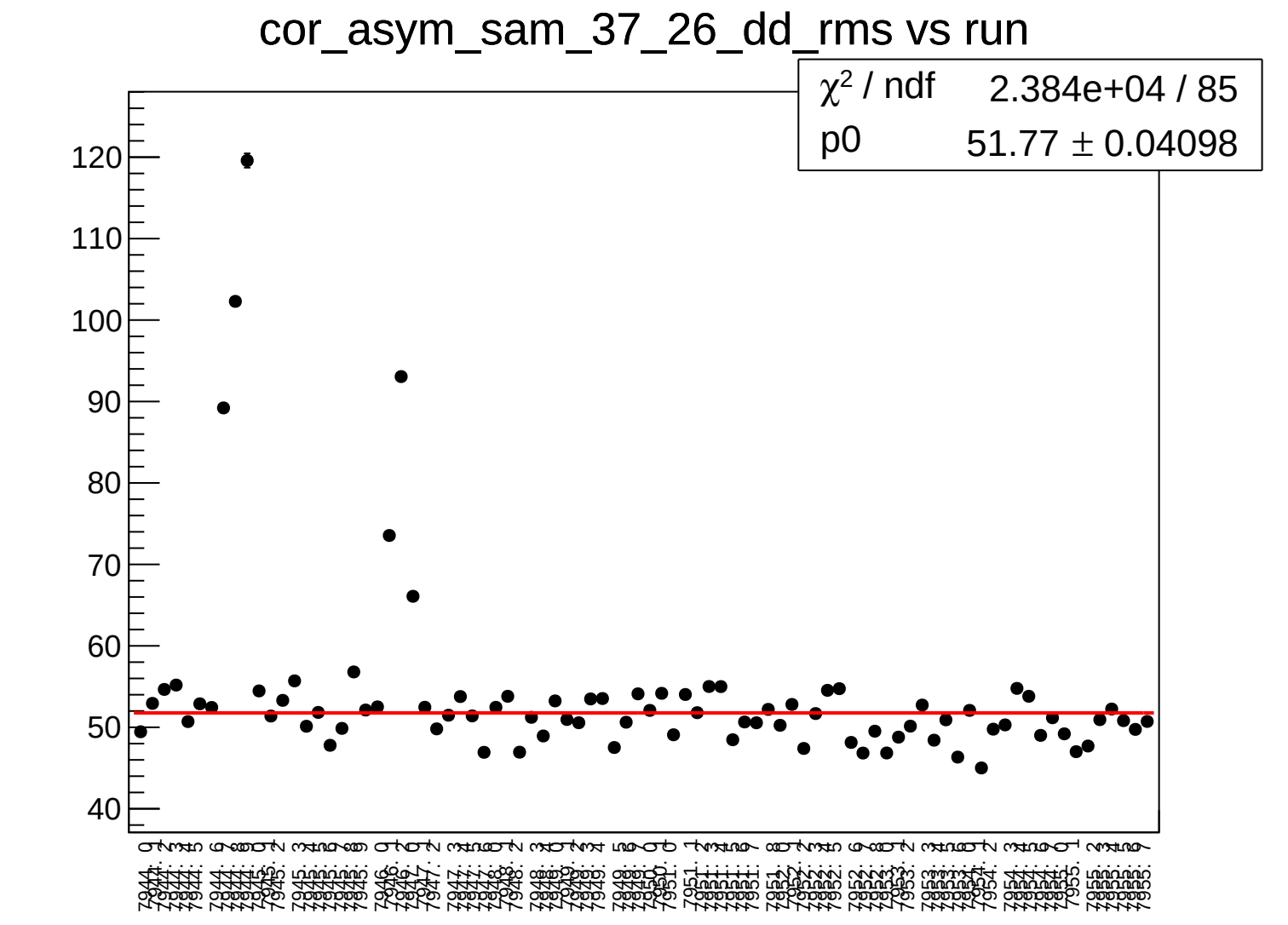

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 83.94 / 85
p0 −310.2 ± 250.6
pull
Entries 86
Mean −628.3
Std Dev 0

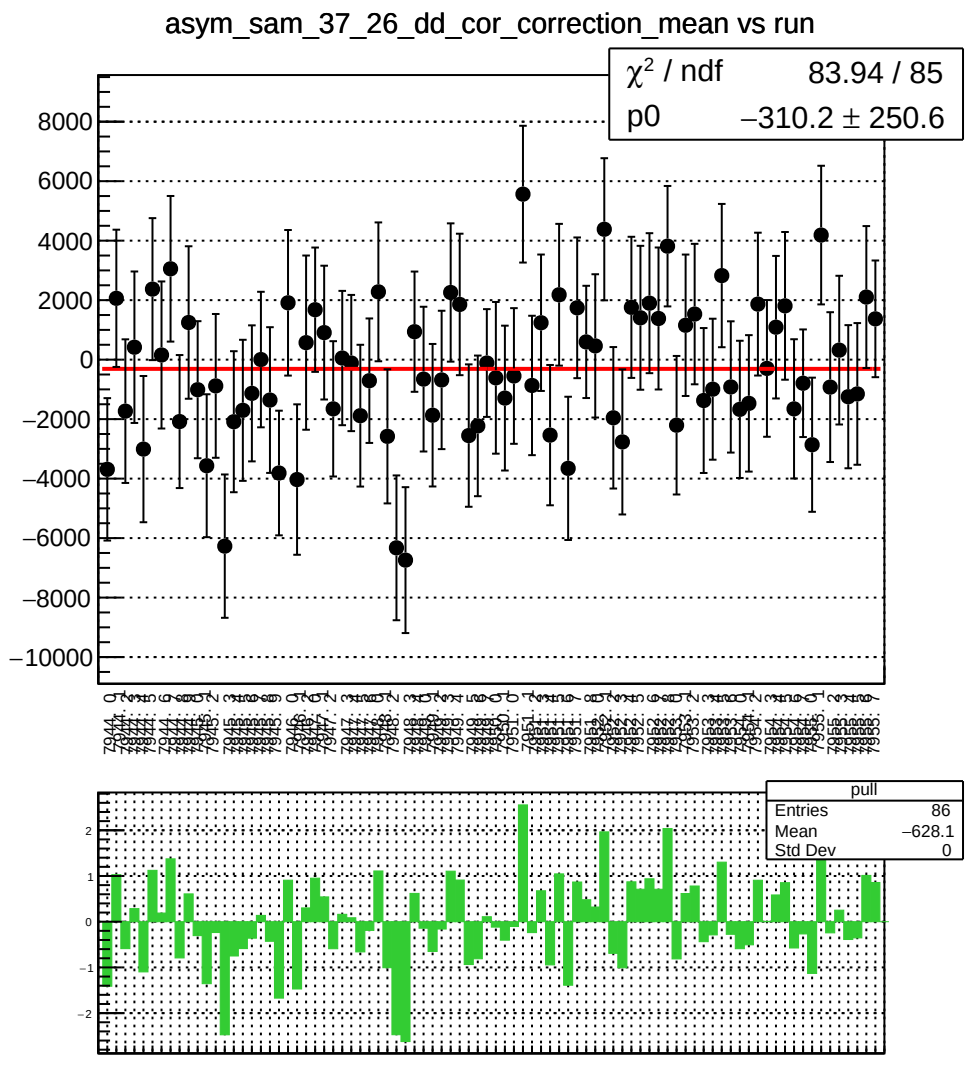

pull1D
Entries 86
Mean −0.008246
Std Dev 0.9879

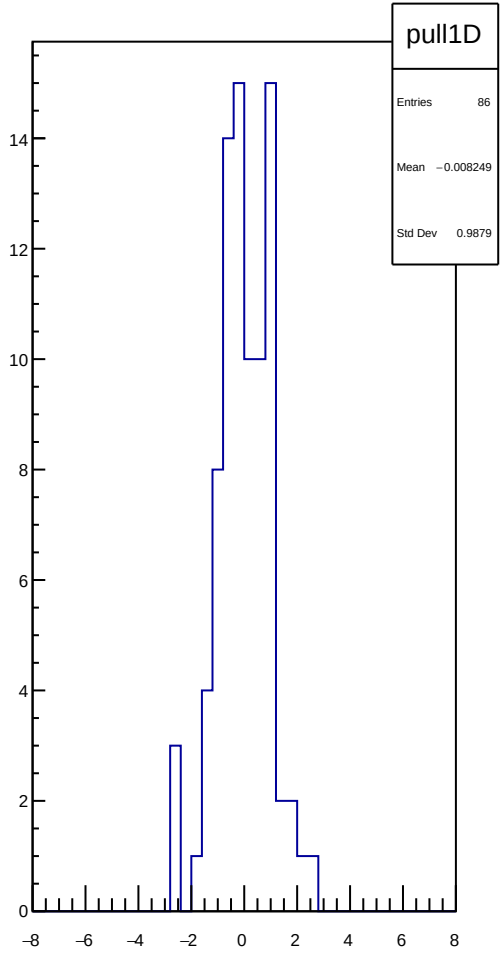

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2723 / 85
p0 225.3 ± 0.1772
280
260
240
220
200

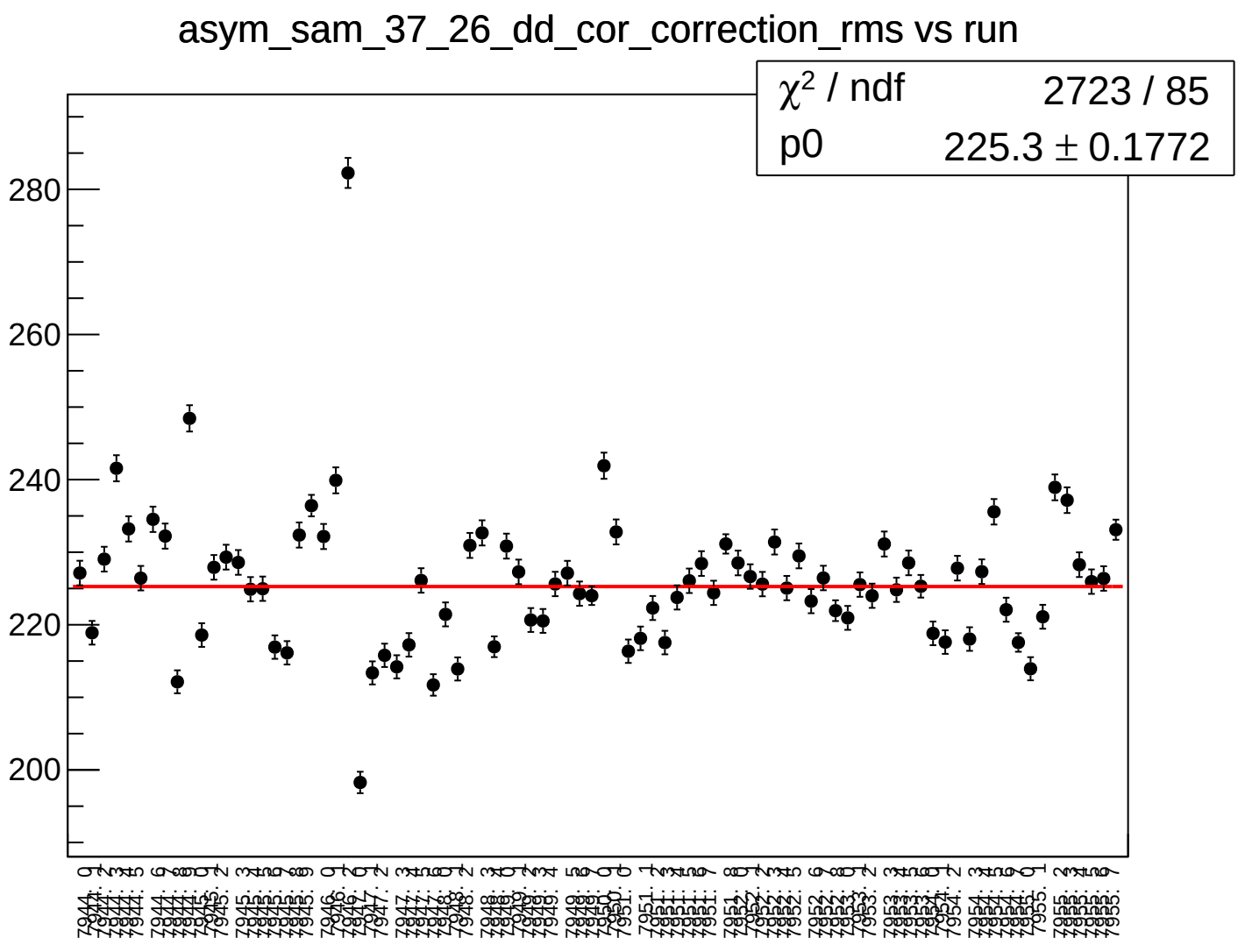

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 68.51 / 85
p0 −28.87 ± 57.96
pull
Entries 86
Mean 173.8
Std Dev 0

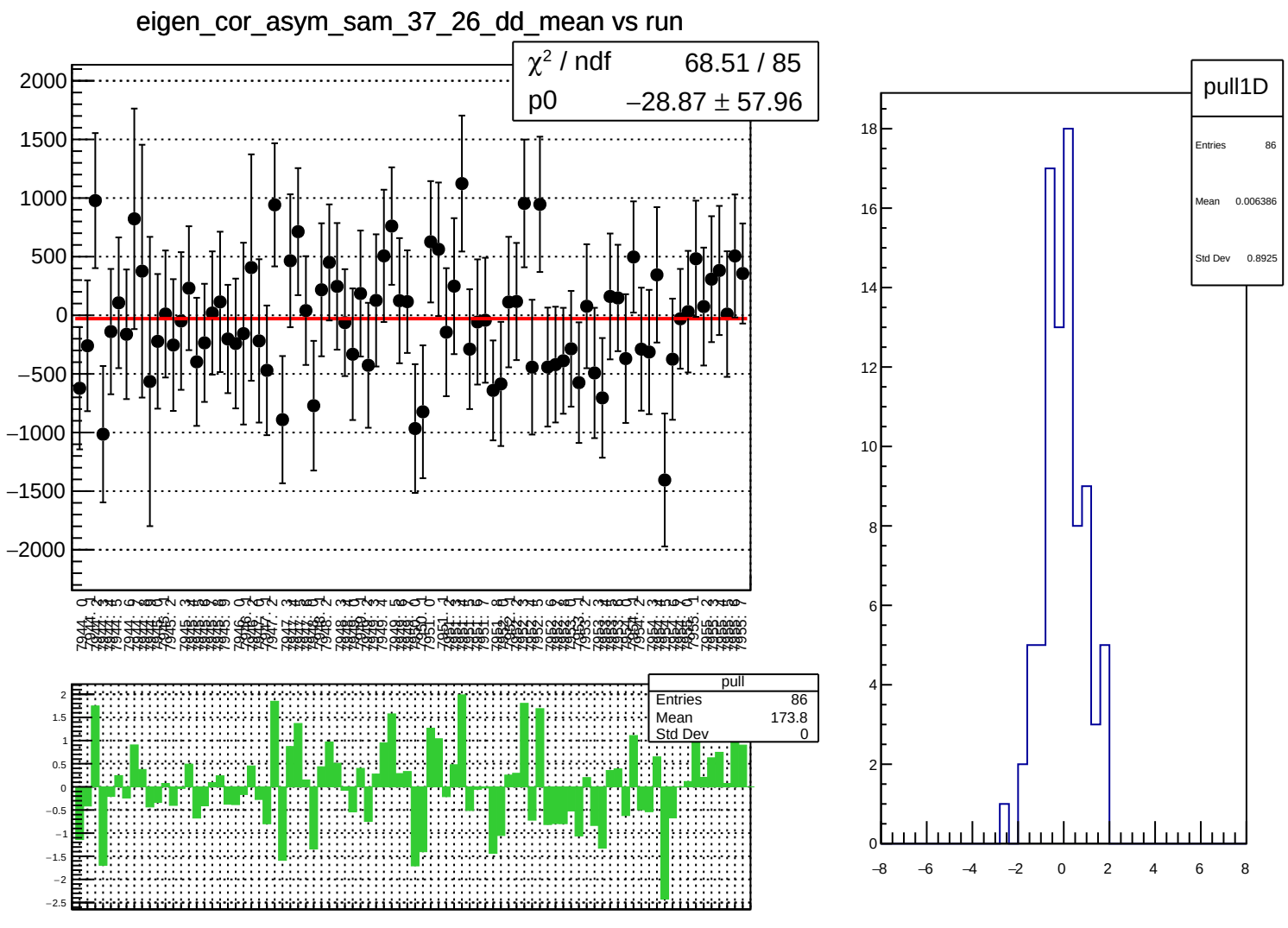

pull1D
Entries 86
Mean 0.006386
Std Dev 0.8925

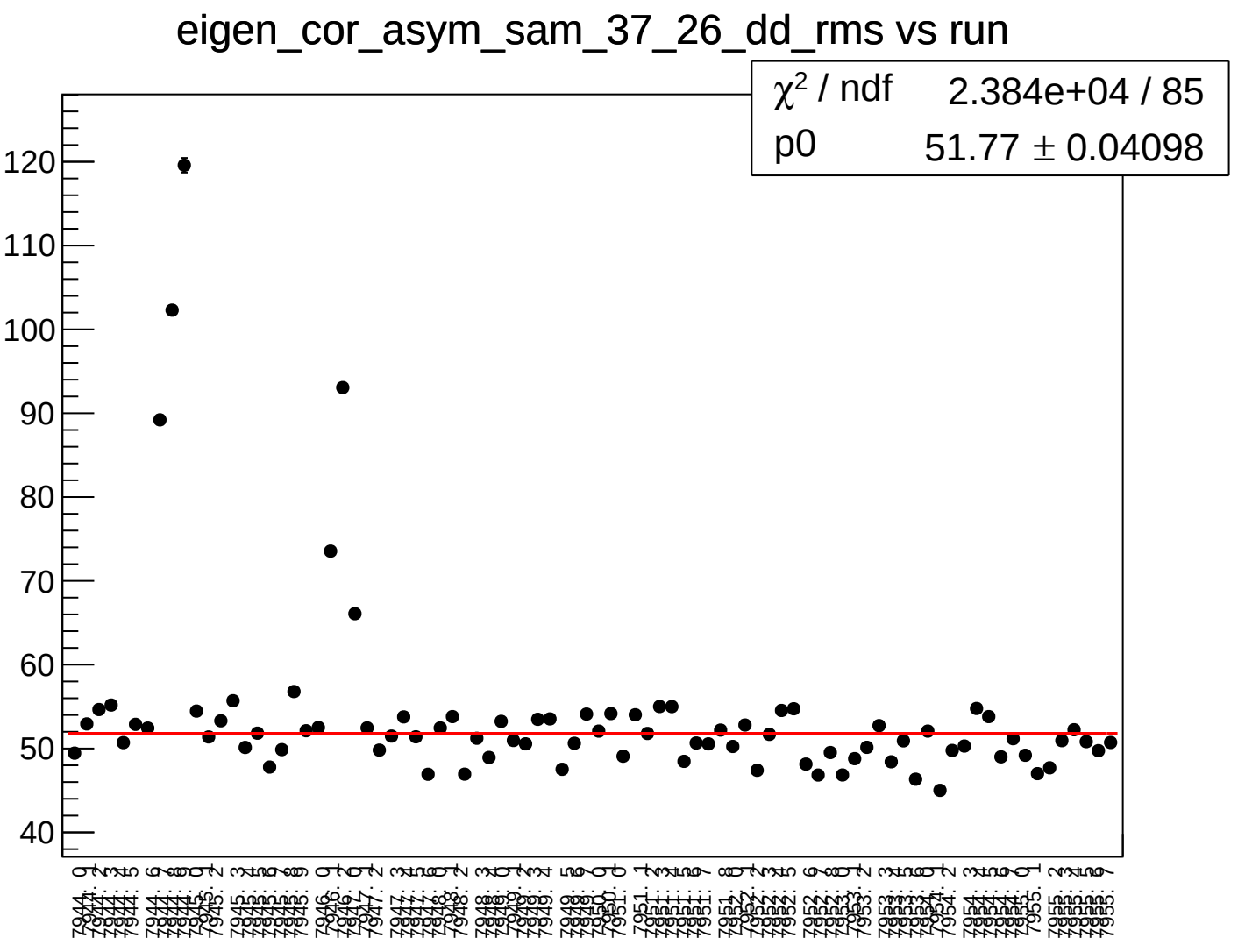

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.384e+04 / 85
p0 51.77 ± 0.04098
120
110
100
90
80
70
60
50
40

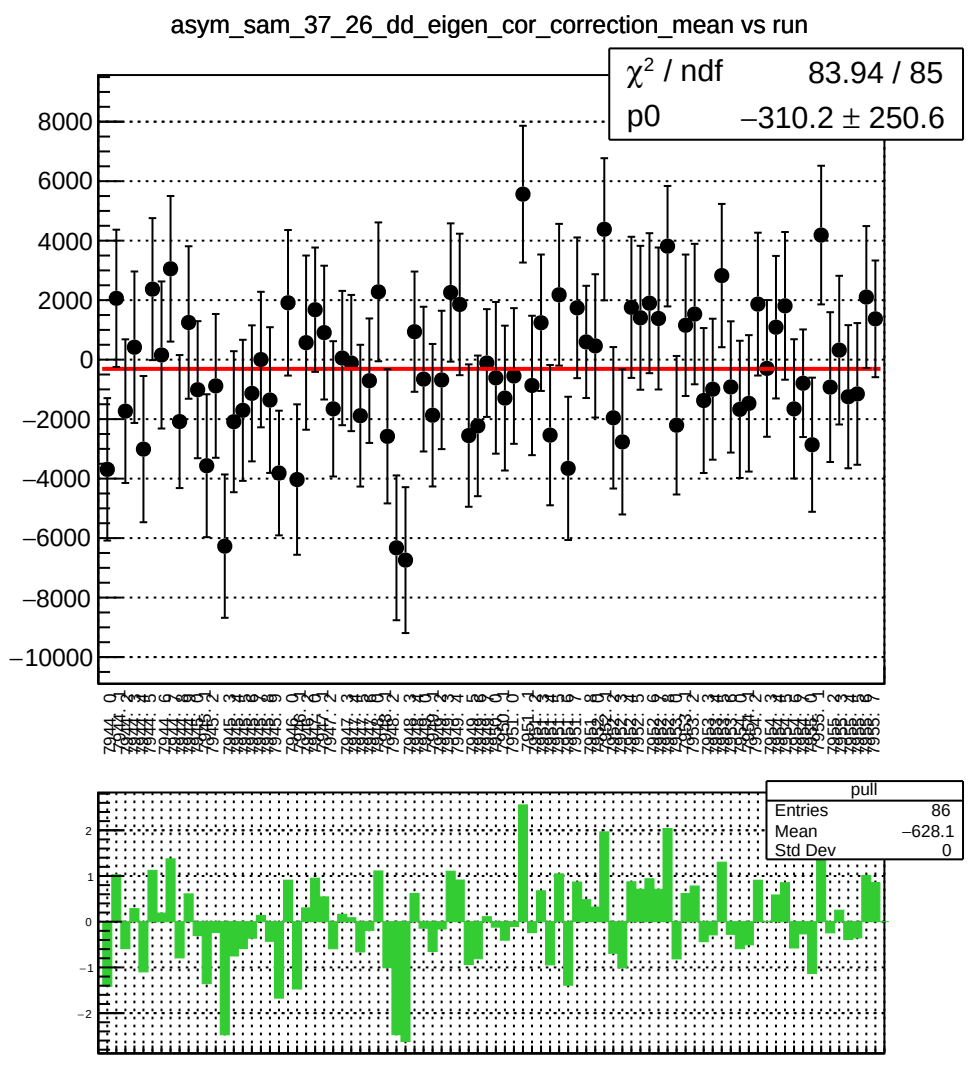

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 83.94 / 85
p0 −310.2 ± 250.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 86
Mean −628.1
Std Dev 0
2
1
0
−1
−2

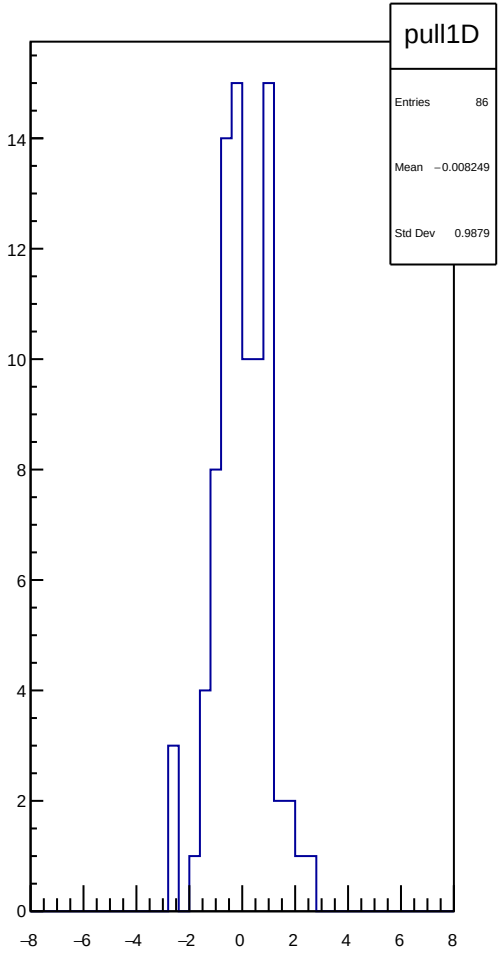

pull1D
Entries 86
Mean −0.008249
Std Dev 0.9879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

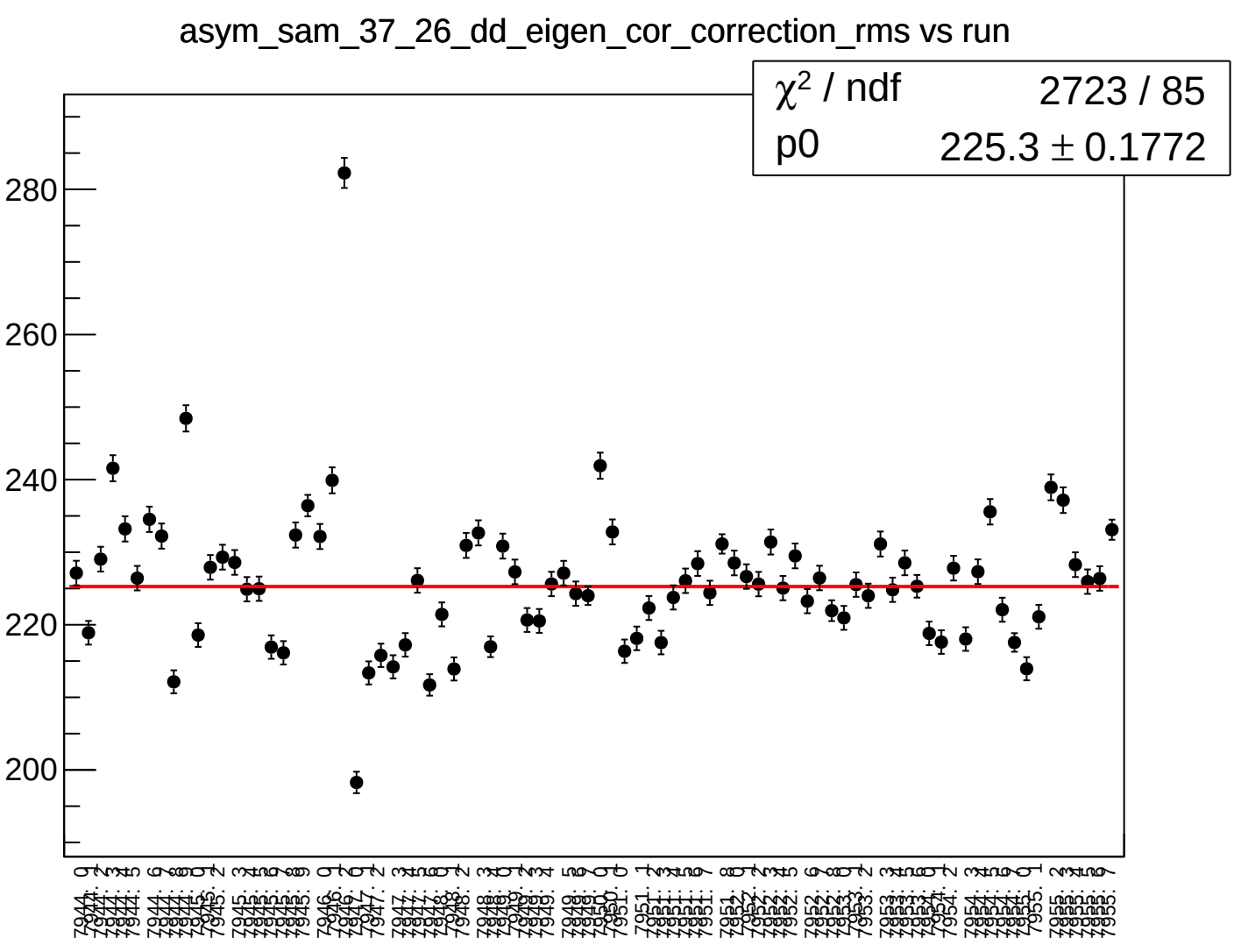

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2723 / 85
p0 225.3 ± 0.1772
280
260
240
220
200

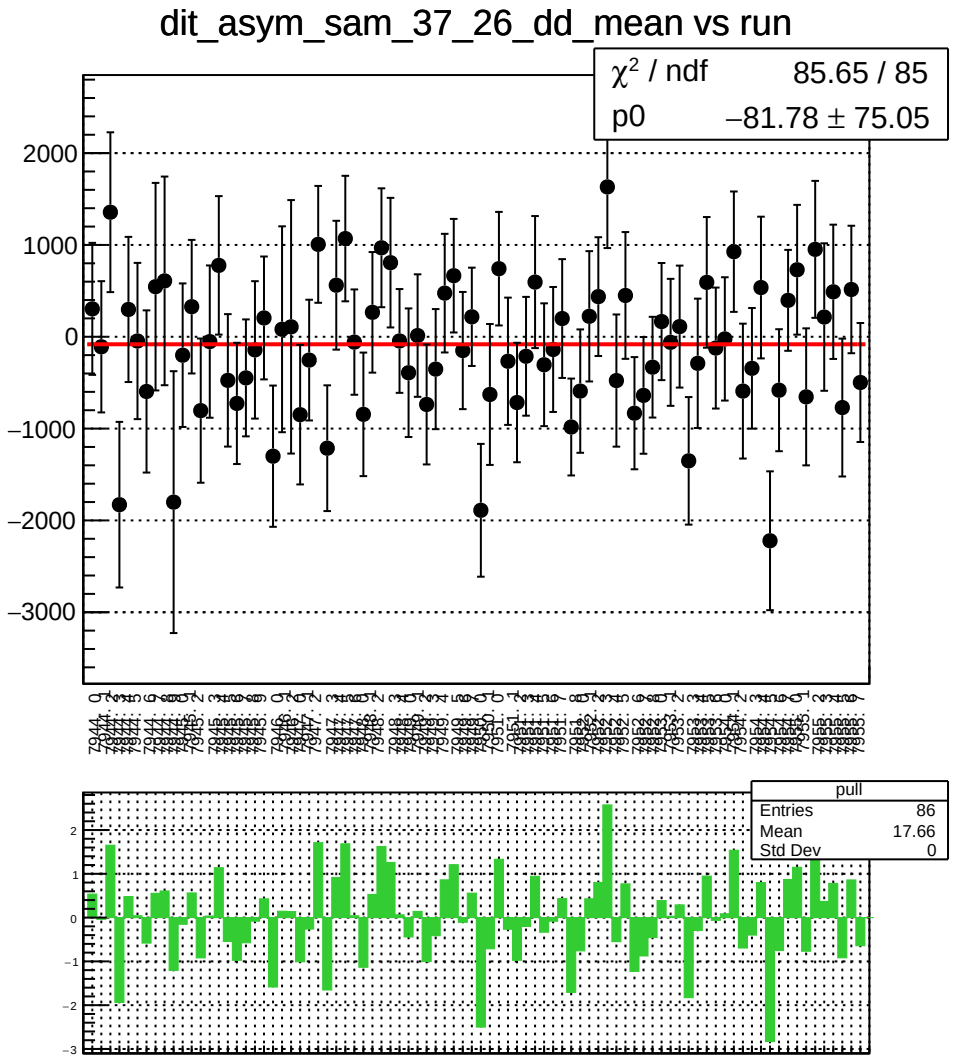

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 68.51 / 85
p0 −28.87 ± 57.96
pull
Entries 86
Mean 173.8
Std Dev 0
pull1D
Entries 86
Mean 0.006386
Std Dev 0.8925

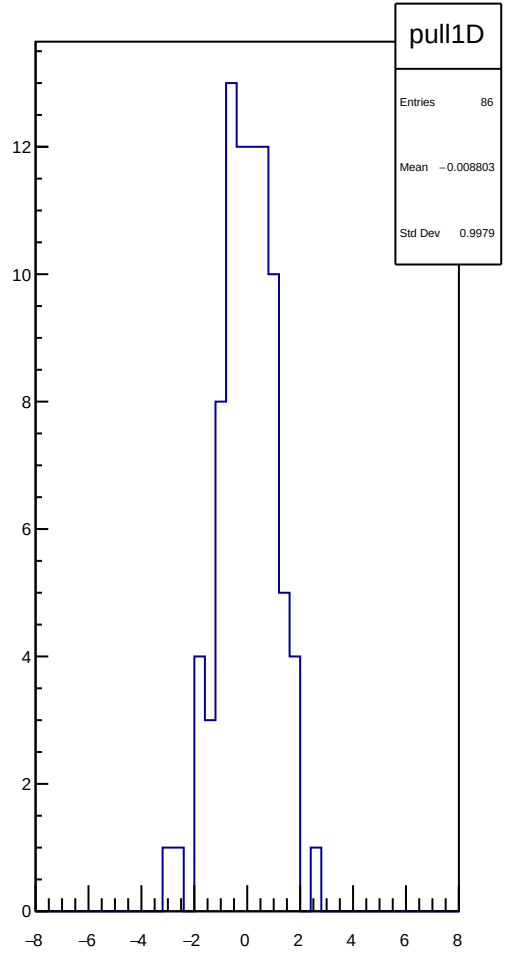

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.384e+04 / 85
p0 51.77 ± 0.04098
120
110
100
90
80
70
60
50
40

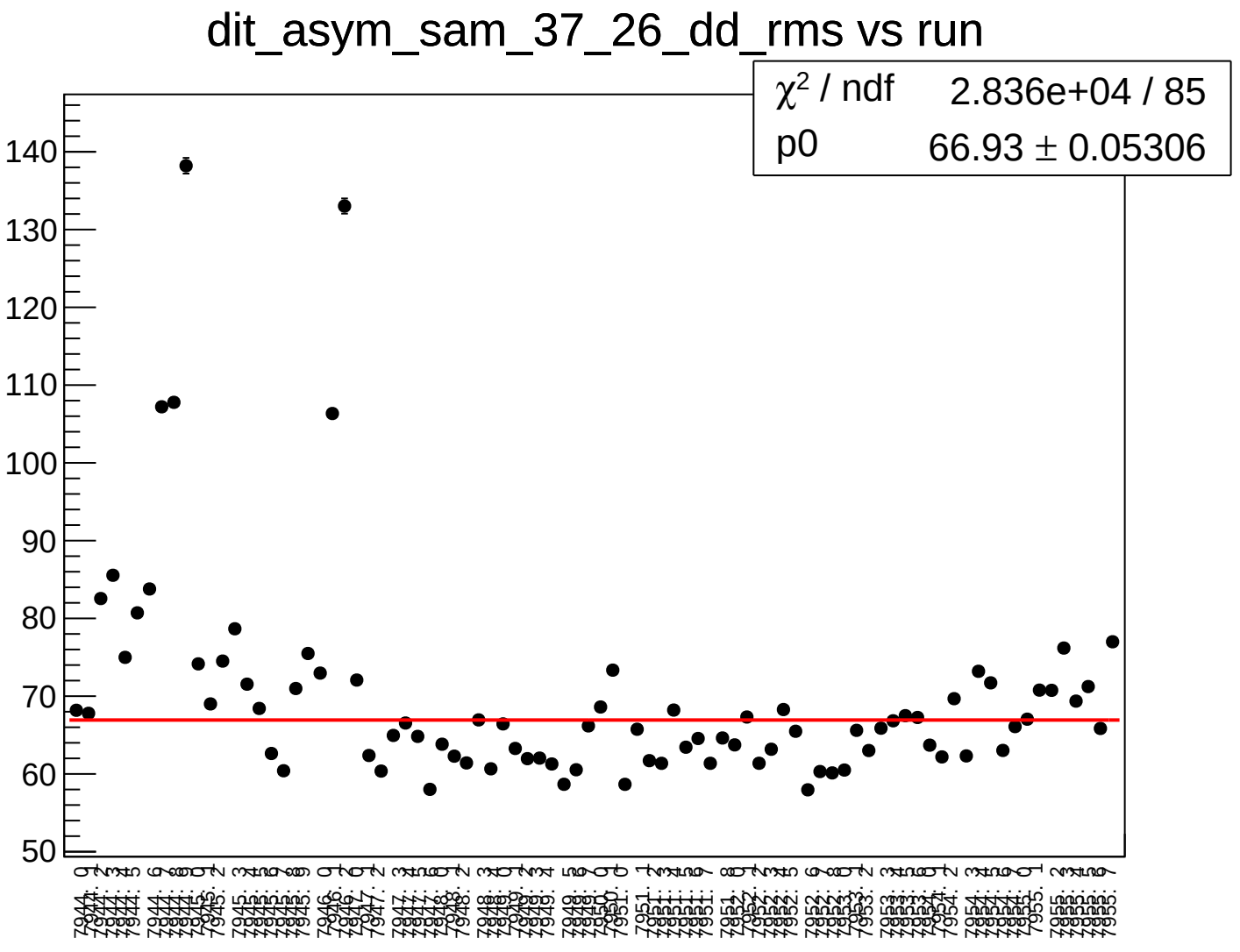

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.94 / 85
p0 −310.2 ± 250.6
pull
Entries 86
Mean −628.1
Std Dev 0

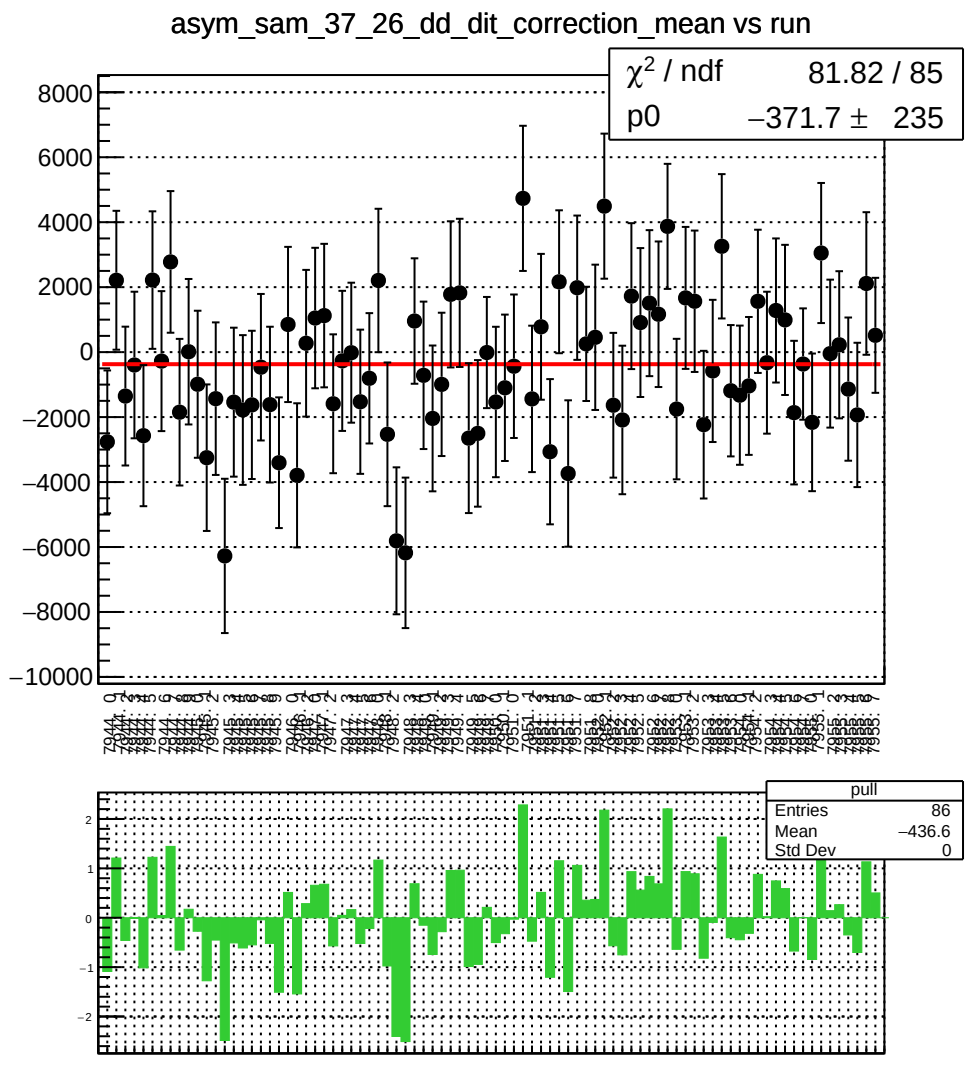

pull1D
Entries 86
Mean −0.008249
Std Dev 0.9879

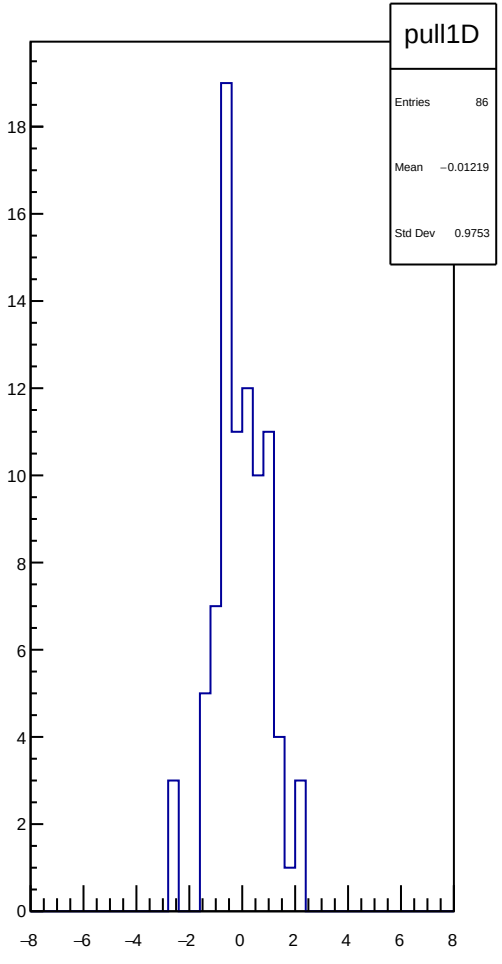

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2723 / 85
p0 225.3 ± 0.1772
280
260
240
220
200

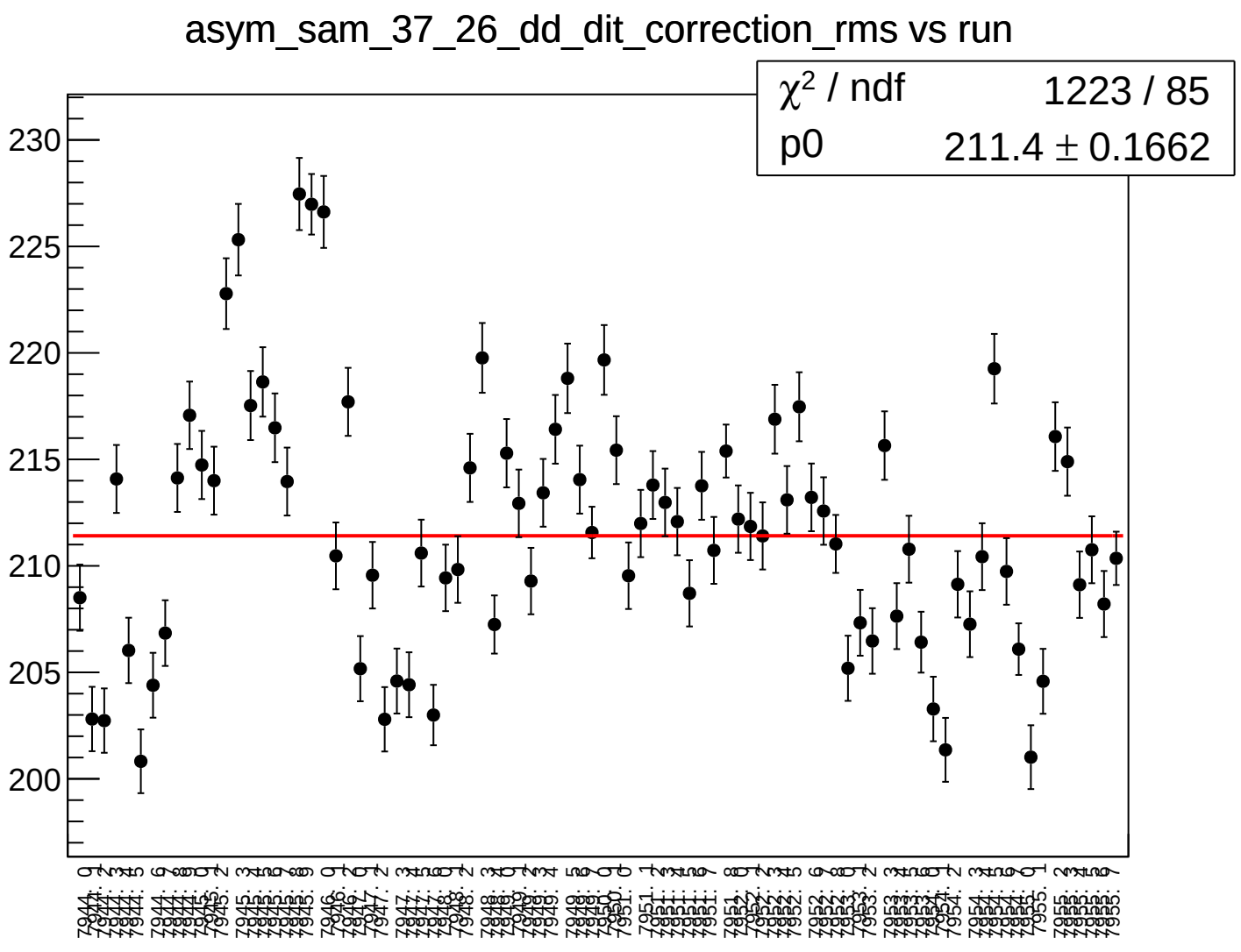

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 85.65 / 85
p0 −81.78 ± 75.05
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 17.66
Std Dev 0
2
1
0
−1
−2
−3

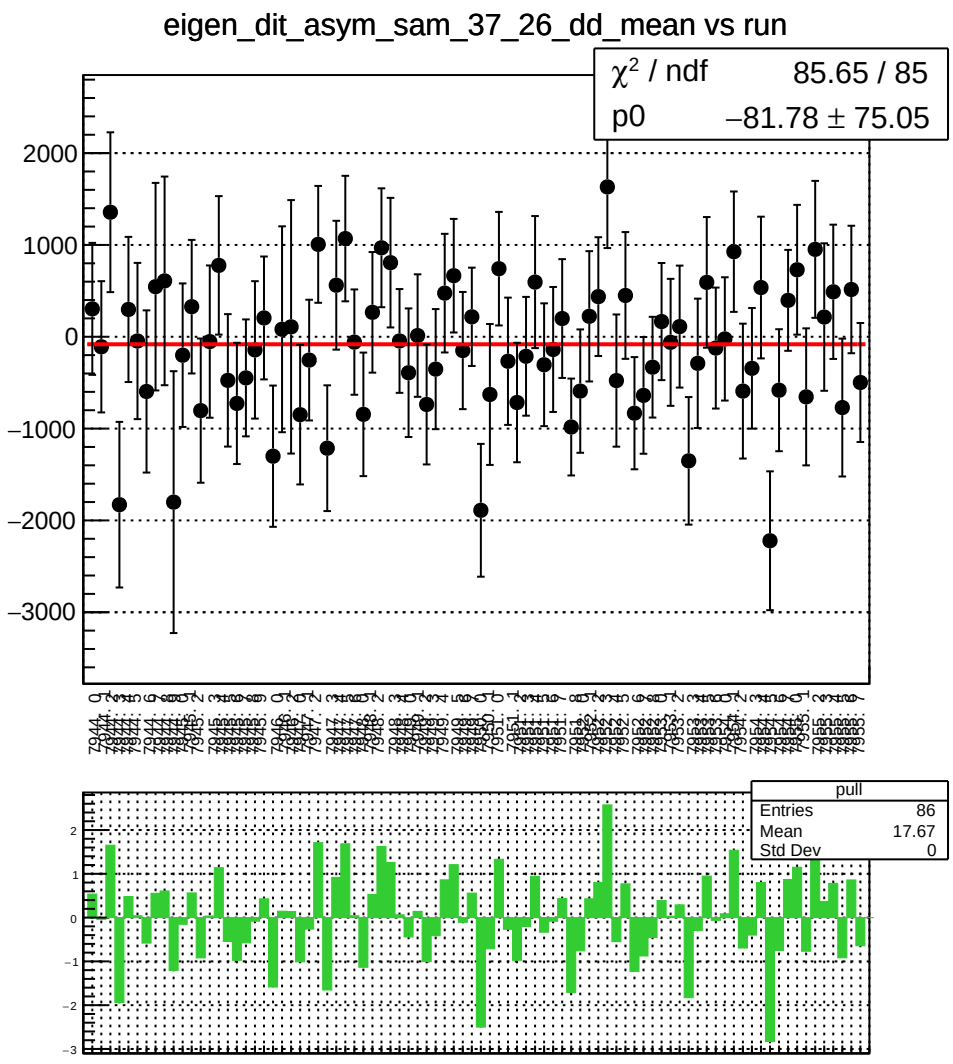

pull1D
Entries 86
Mean −0.008803
Std Dev 0.9979
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

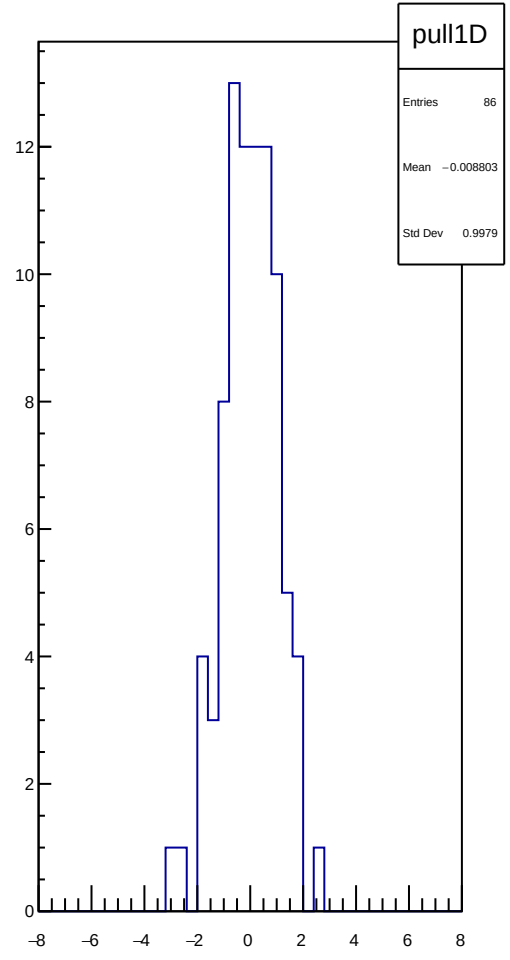

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.836e+04 / 85
p0 66.93 ± 0.05306
140
130
120
110
100
90
80
70
60
50

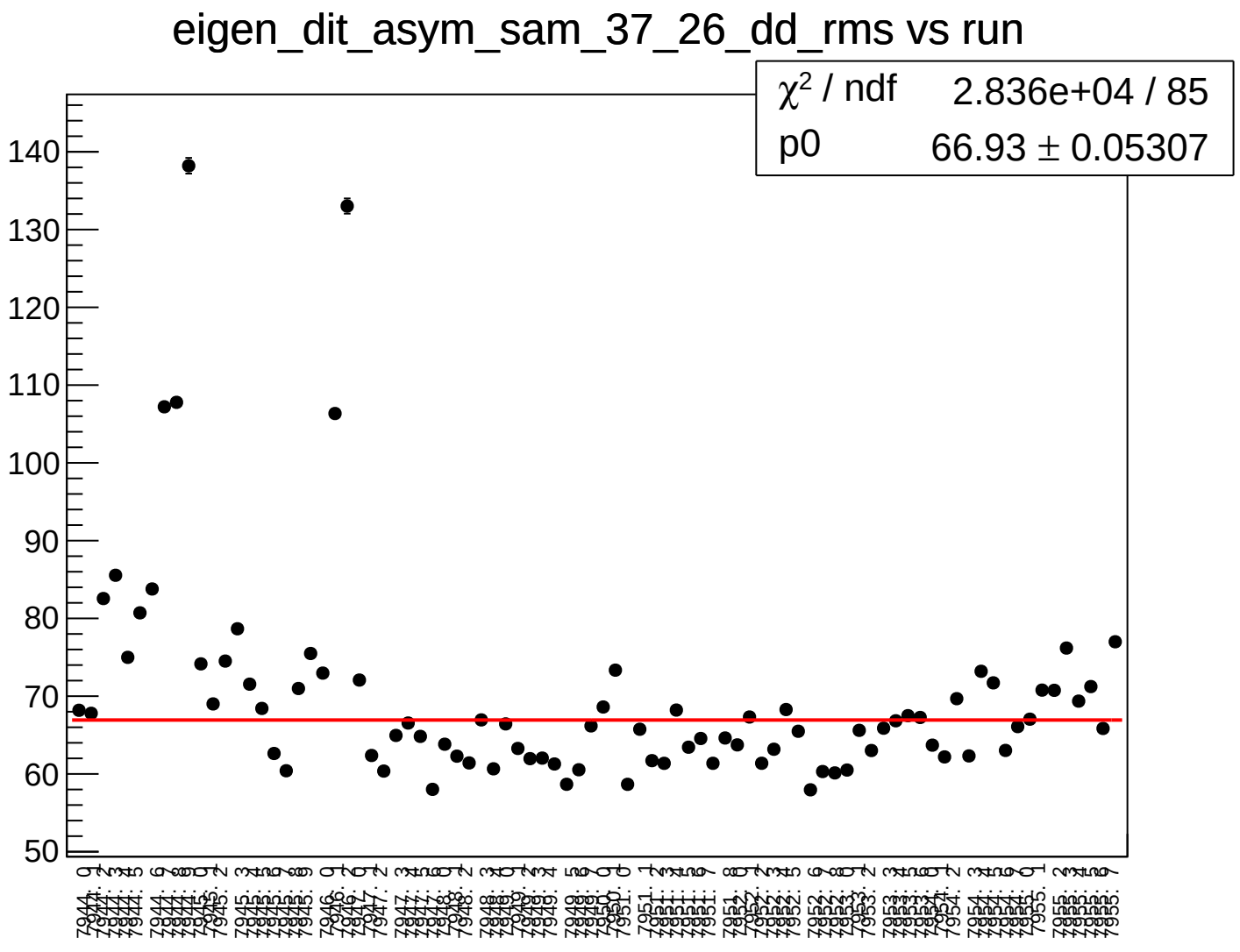

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 81.82 / 85
p0 −371.7 ± 235
pull
Entries 86
Mean −436.6
Std Dev 0

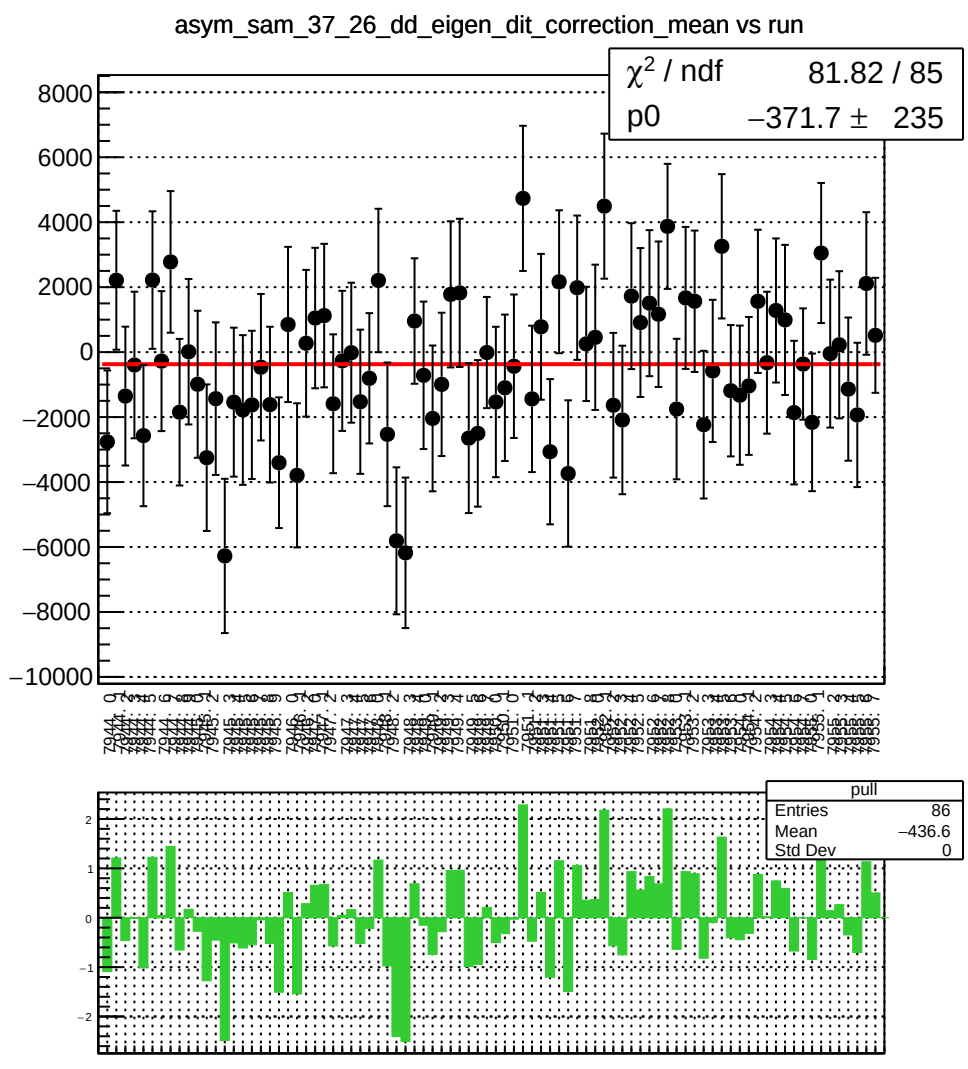

pull1D
Entries 86
Mean −0.01219
Std Dev 0.9753

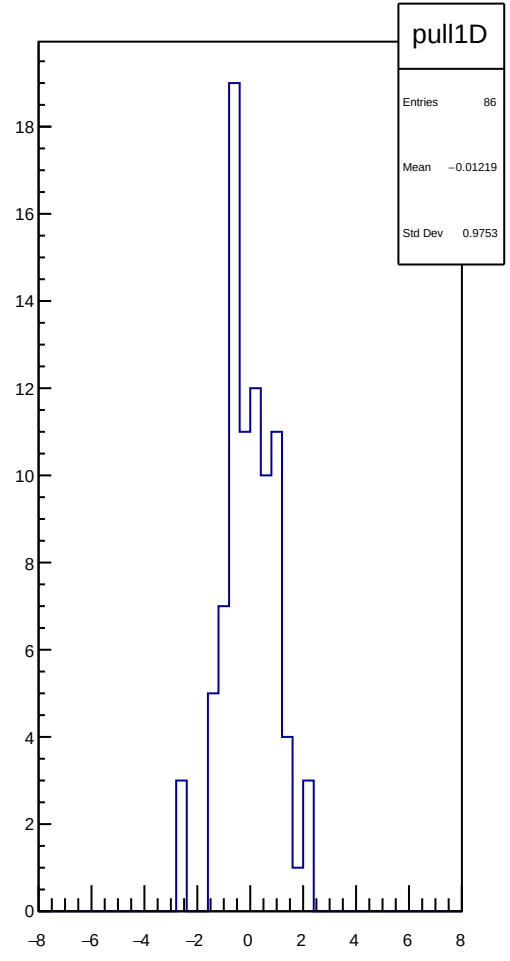

asym_sam_37_26_dd_dit_correction_rms vs run
χ^2 / ndf 1223 / 85
p0 211.4 ± 0.1662
230
225
220
215
210
205
200

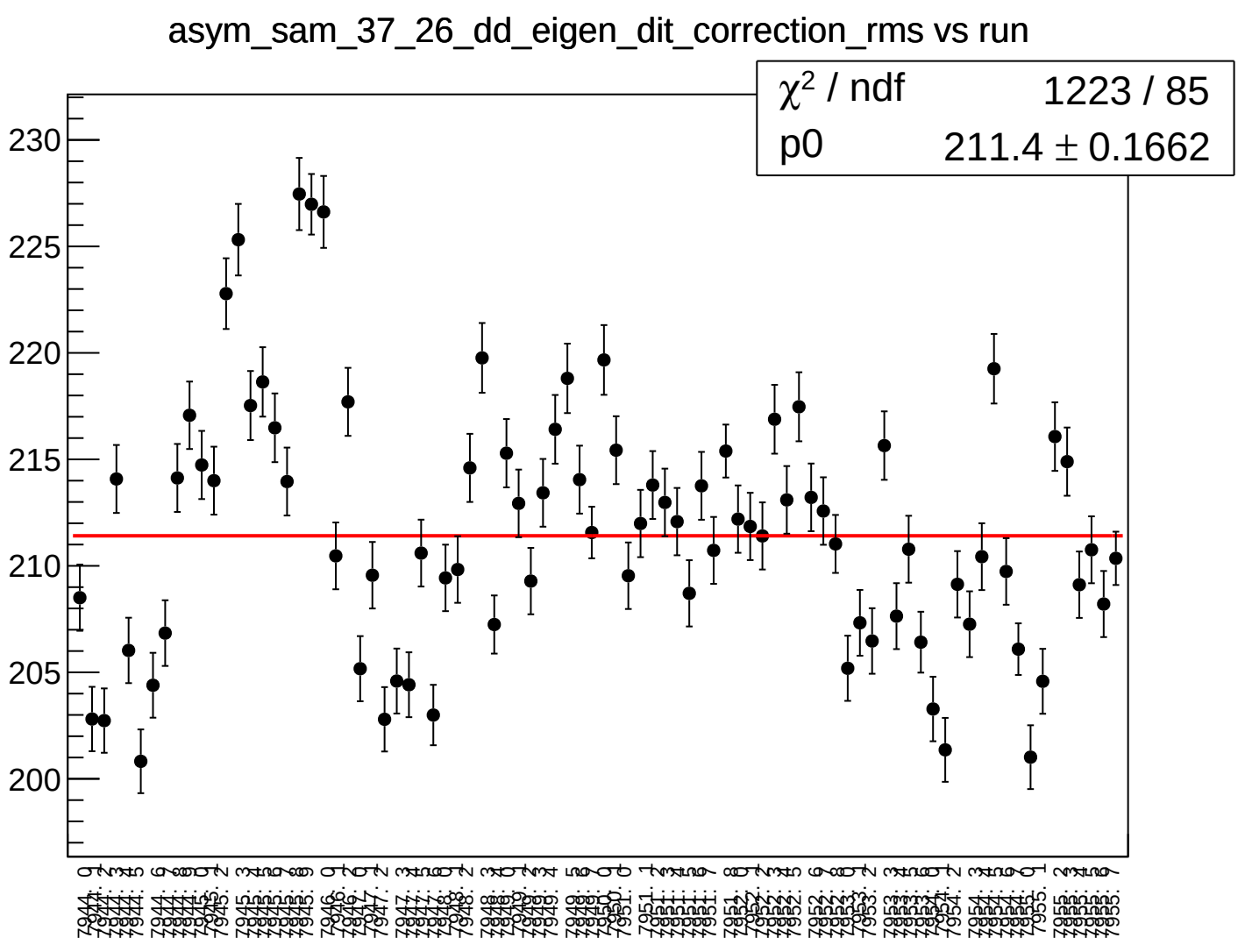

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 85.65 / 85
p0 −81.78 ± 75.05
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 17.67
Std Dev 0
2
1
0
−1
−2
−3

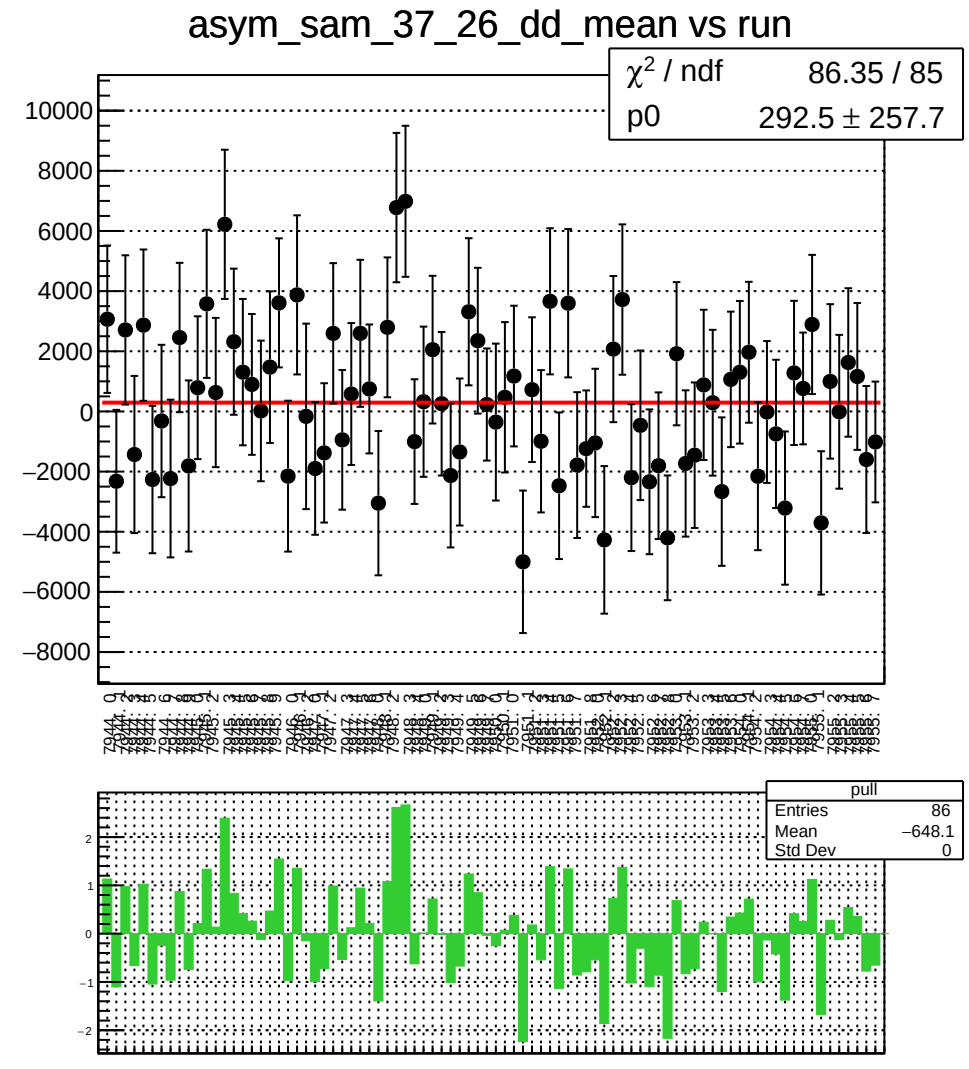

pull1D
Entries 86
Mean −0.008803
Std Dev 0.9979
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

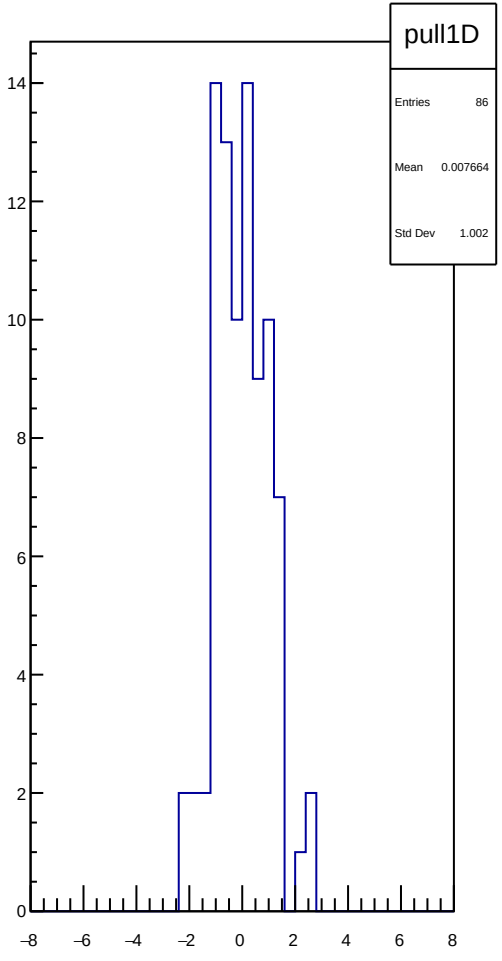

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.836e+04 / 85
p0 66.93 ± 0.05307
140
130
120
110
100
90
80
70
60
50

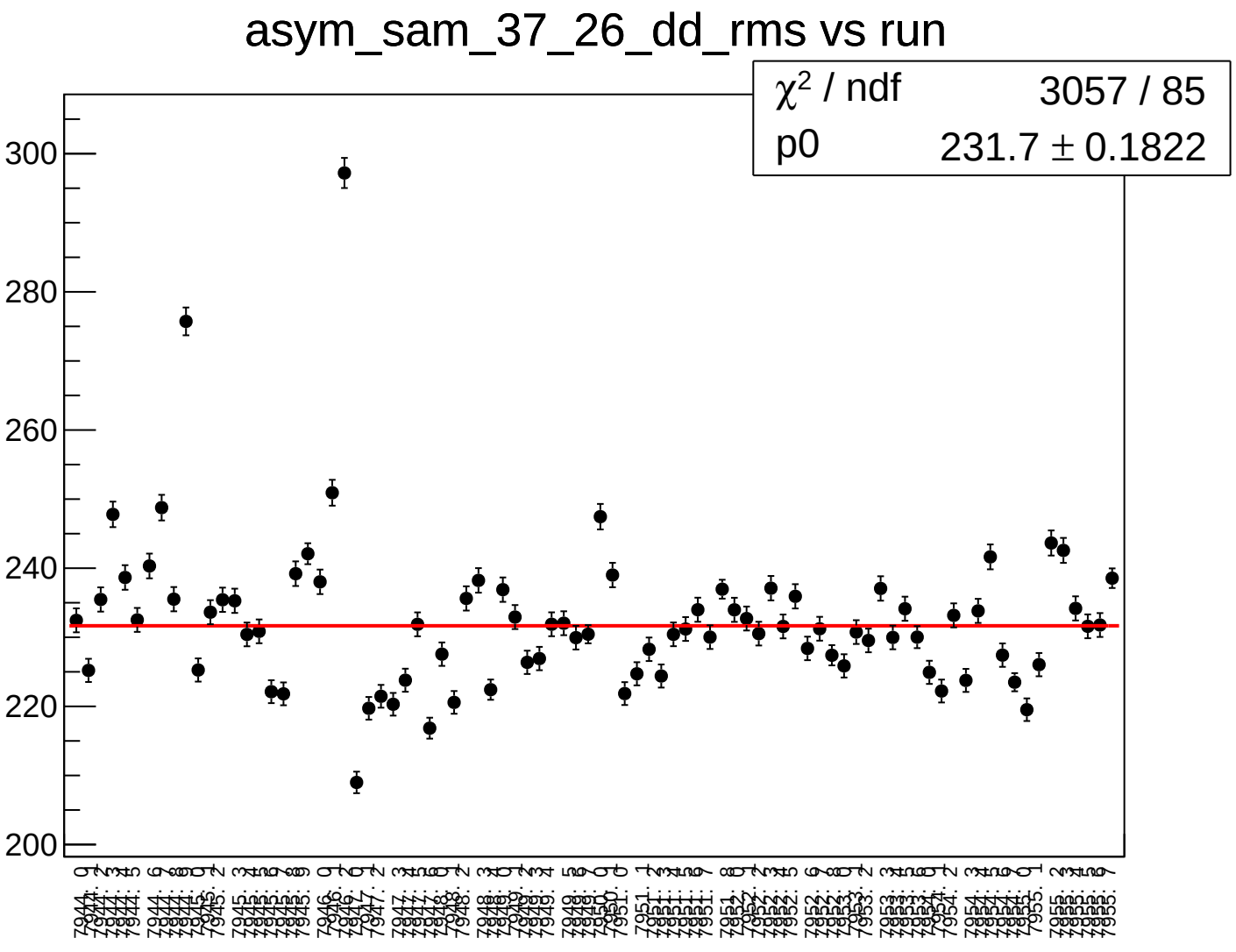

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.82 / 85
p0 −371.7 ± 235
pull
Entries 86
Mean −436.6
Std Dev 0

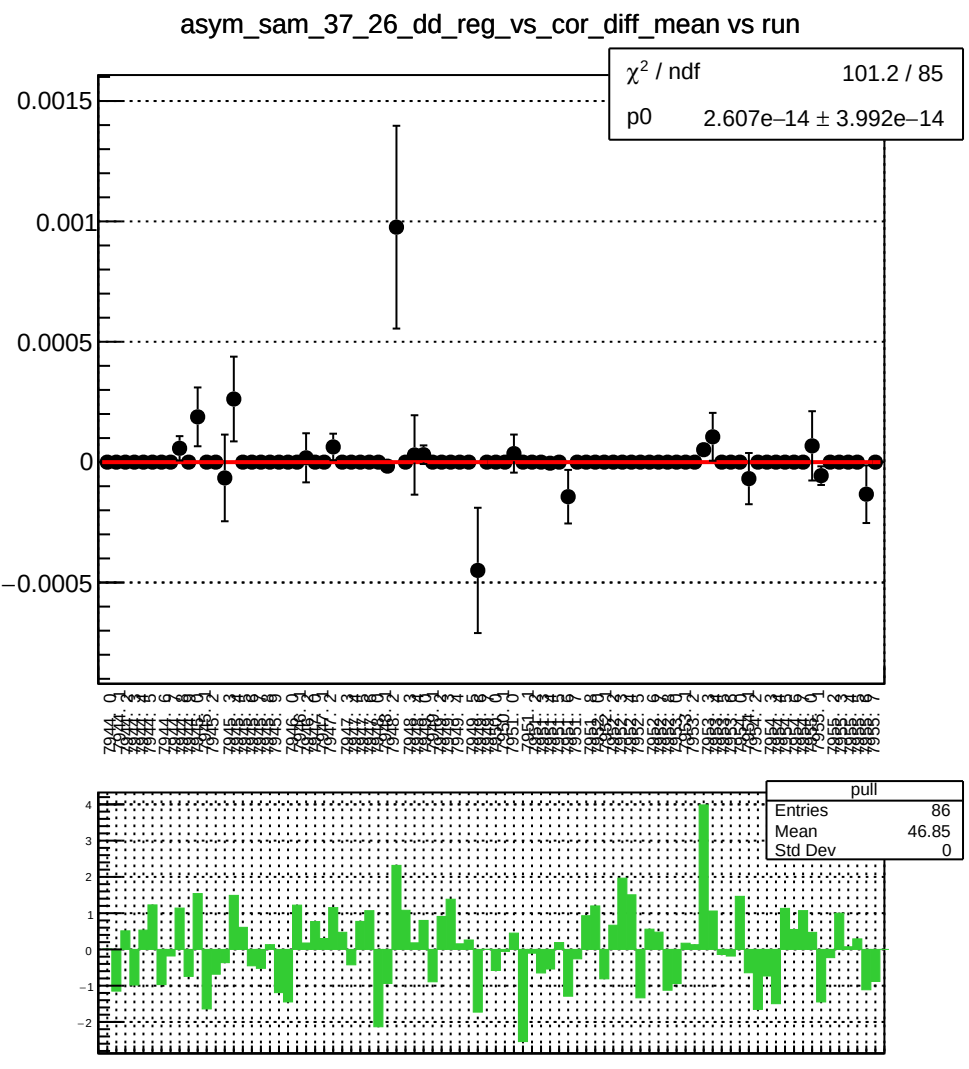

pull1D
Entries 86
Mean −0.01219
Std Dev 0.9753

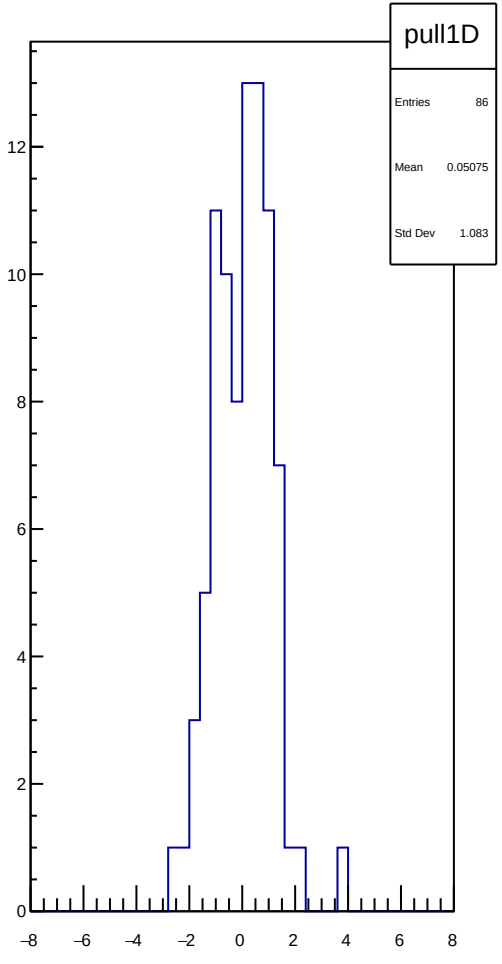

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1223 / 85
p0 211.4 ± 0.1662
230
225
220
215
210
205
200

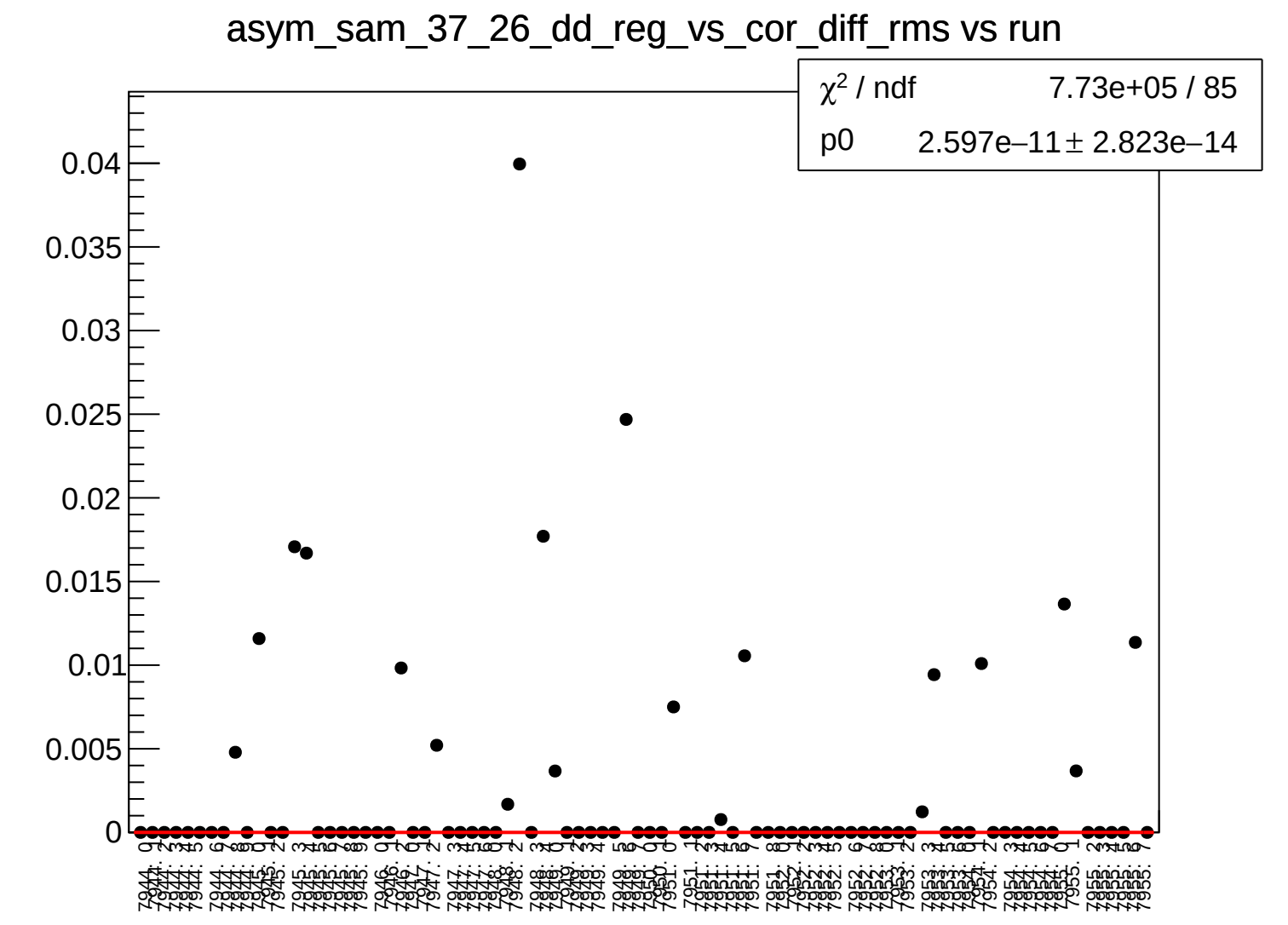

asym_sam_37_26_dd_mean vs run
χ² / ndf 86.35 / 85
p0 292.5 ± 257.7
pull
Entries 86
Mean −648.1
Std Dev 0

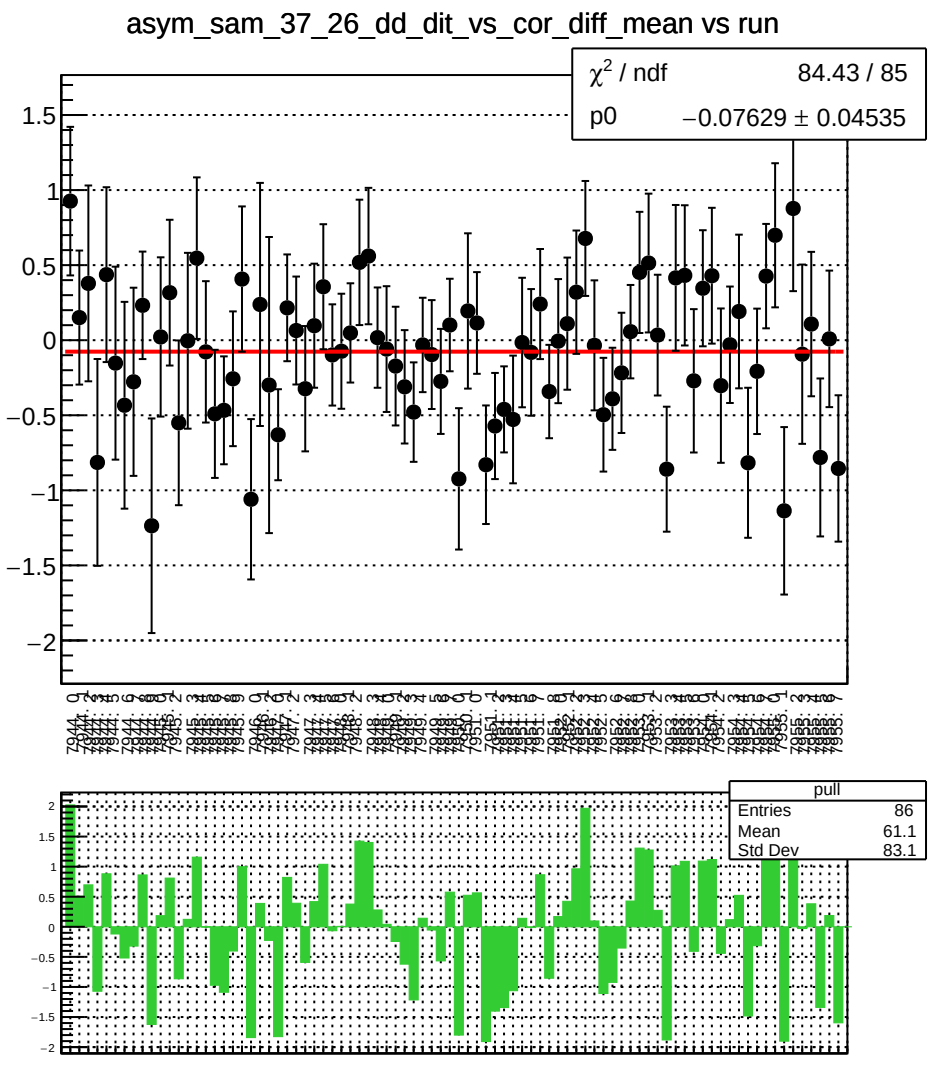

pull1D
Entries 86
Mean 0.007664
Std Dev 1.002

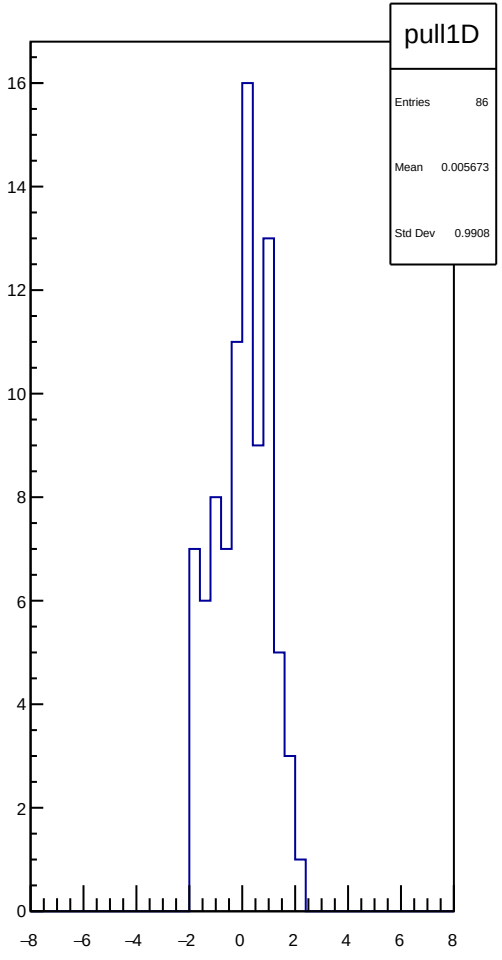

asym_sam_37_26_dd_rms vs run
χ² / ndf 3057 / 85
p0 231.7 ± 0.1822
300
280
260
240
220
200

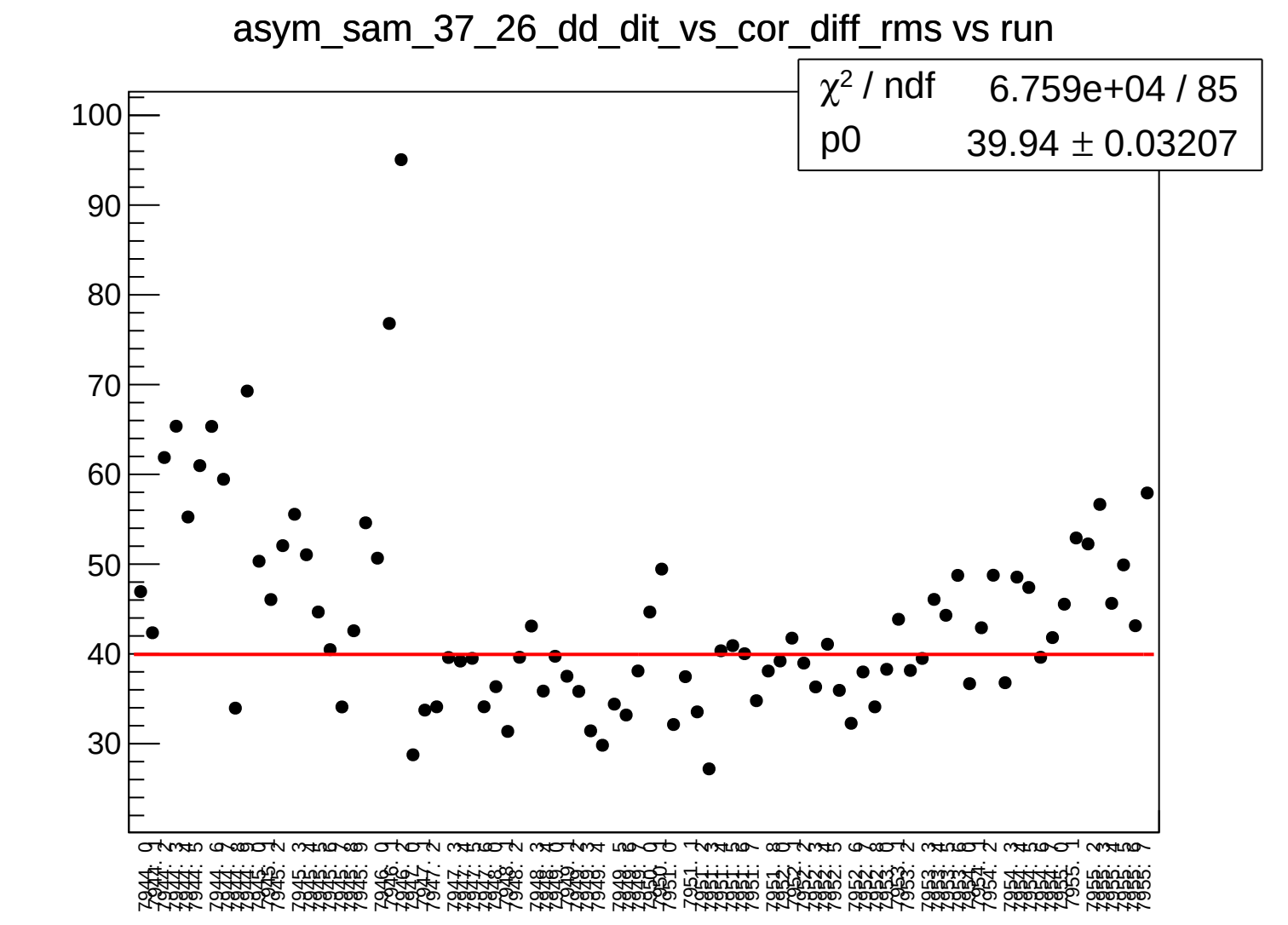

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.2 / 85
p0 2.607e−14 ± 3.992e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 86
Mean 46.85
Std Dev 0
4
3
2
1
0
−1
−2

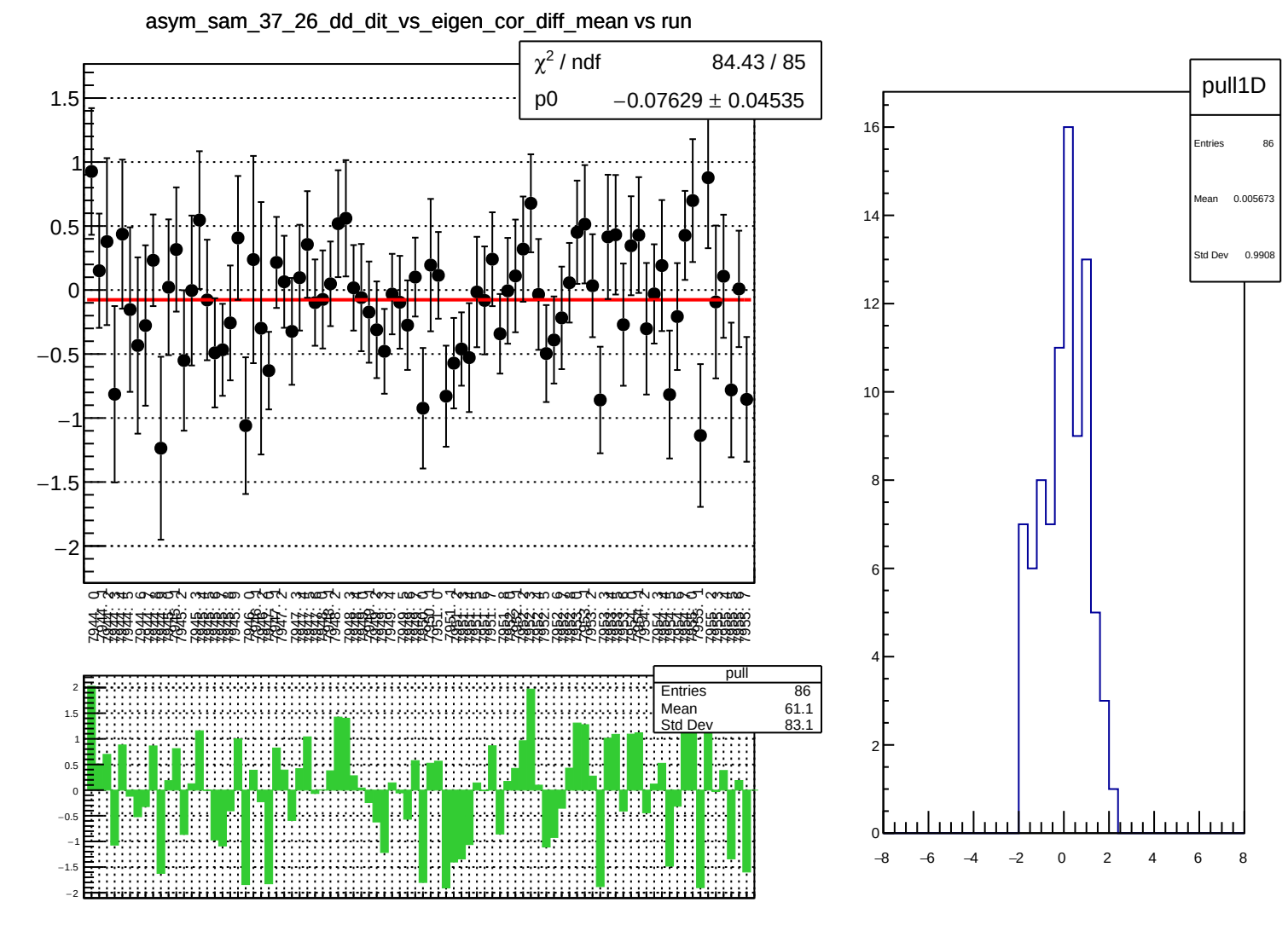

pull1D
Entries 86
Mean 0.05075
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

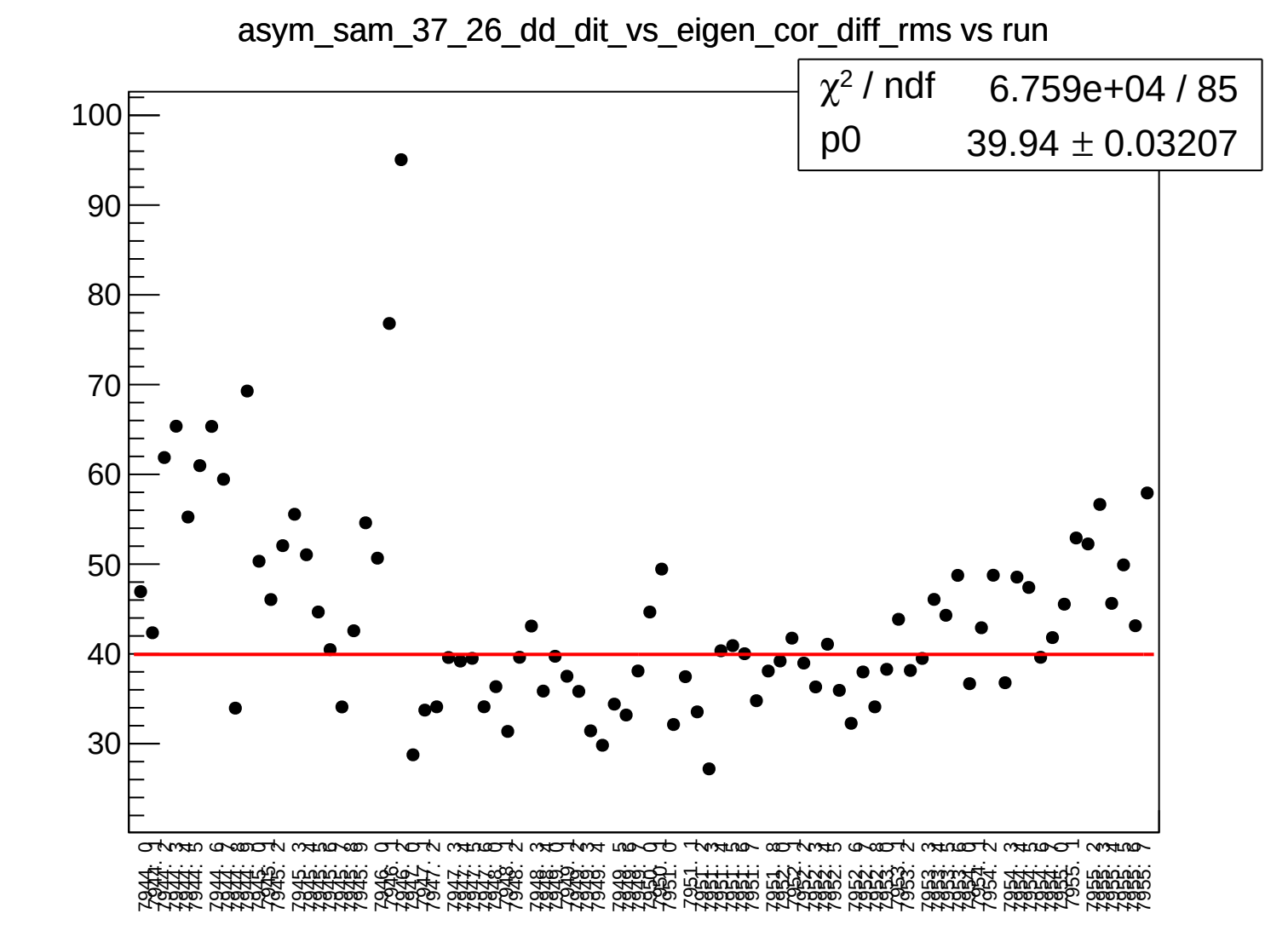

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.73e+05 / 85
p0 2.597e−11 ± 2.823e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

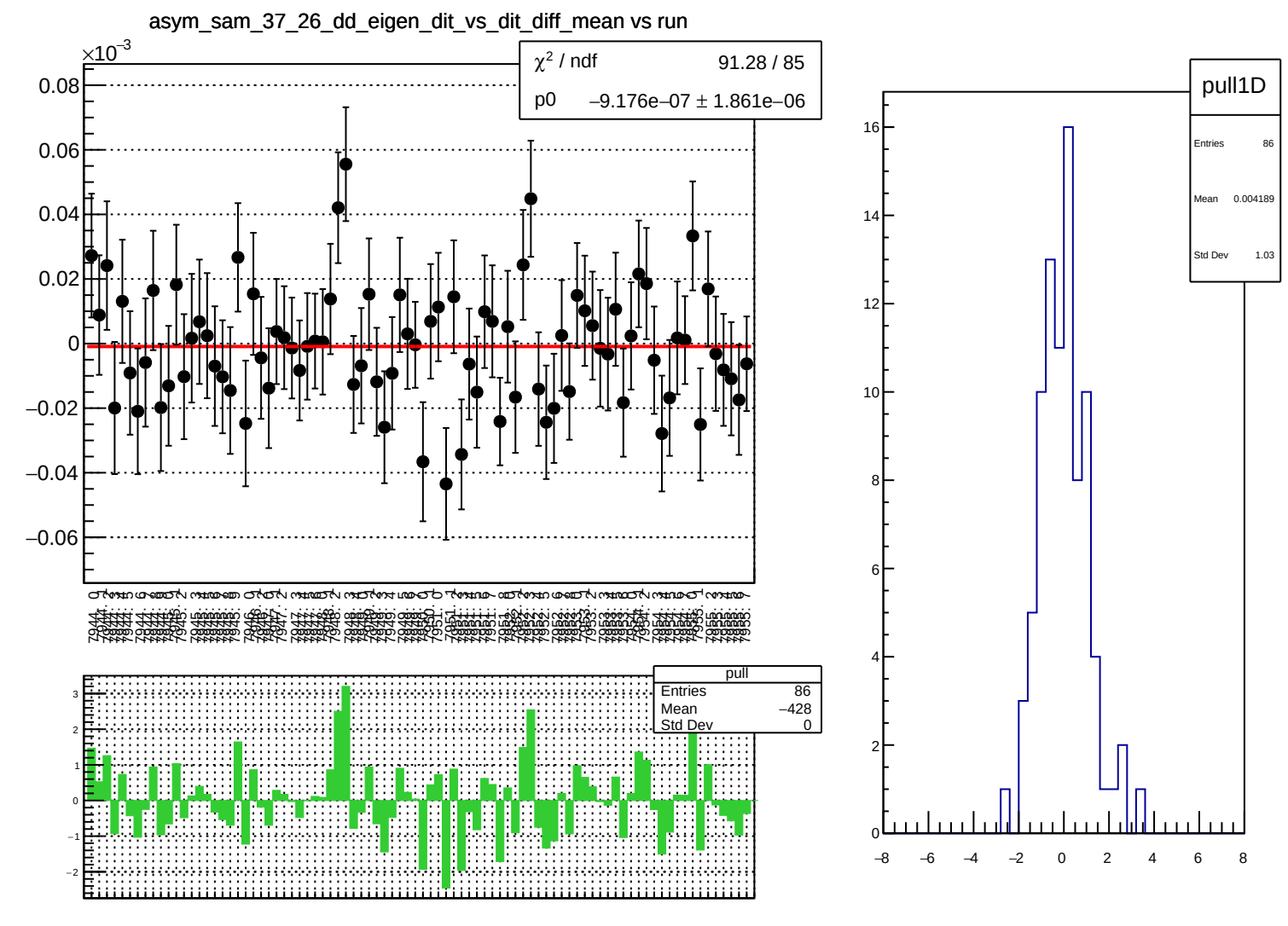

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.43 / 85
p0 −0.07629 ± 0.04535
pull
Entries 86
Mean 61.1
Std Dev 83.1

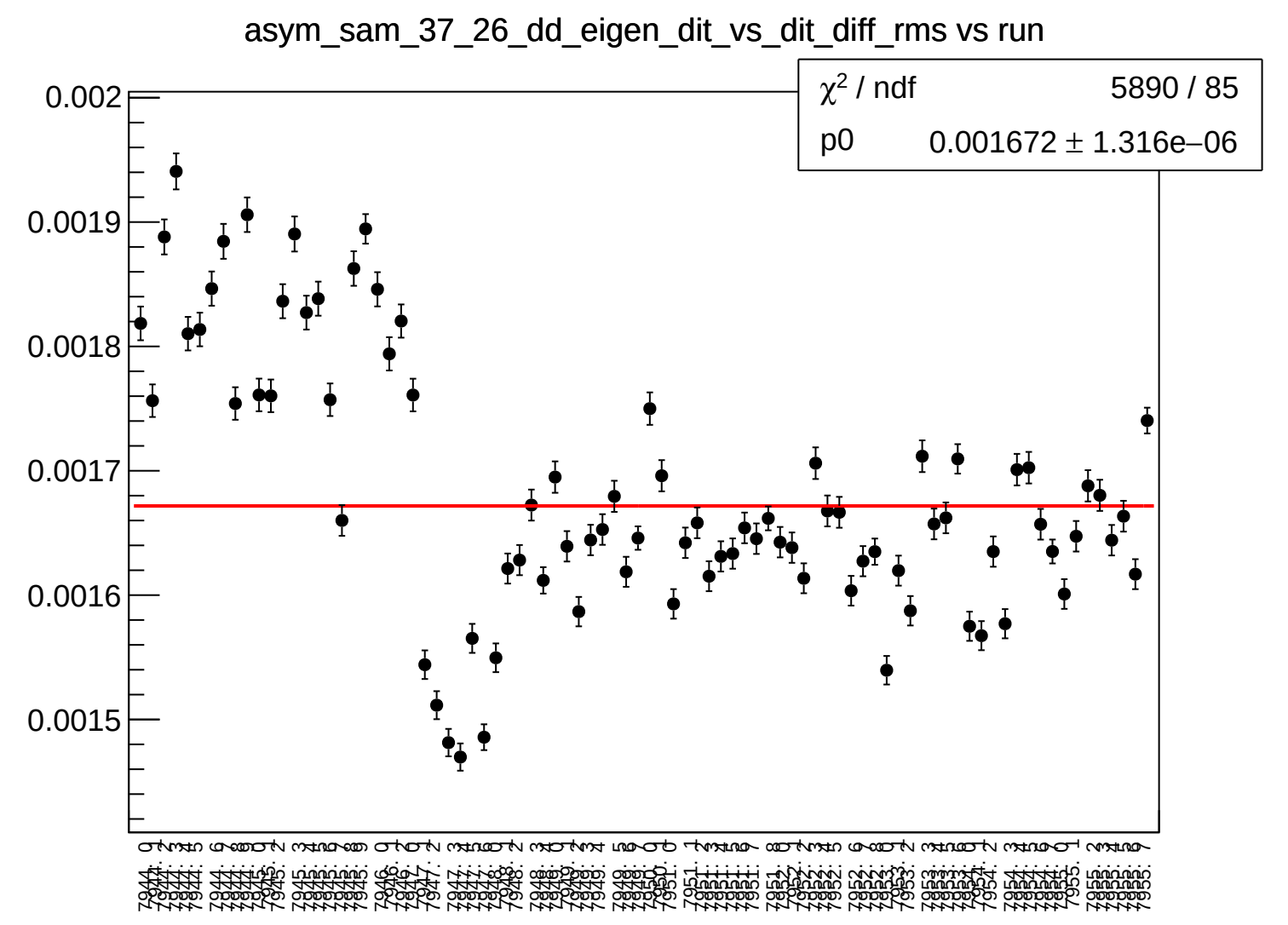

pull1D
Entries 86
Mean 0.005673
Std Dev 0.9908

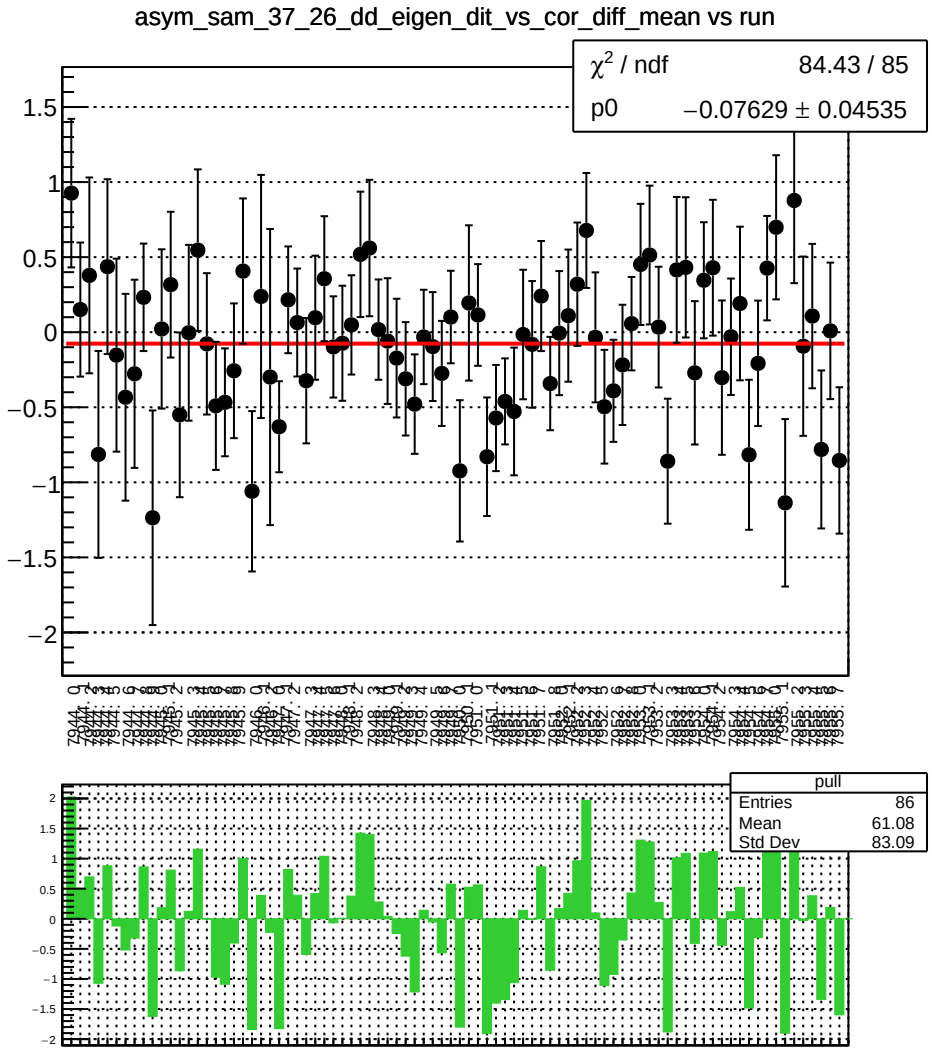

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.759e+04 / 85
p0 39.94 ± 0.03207
100
90
80
70
60
50
40
30

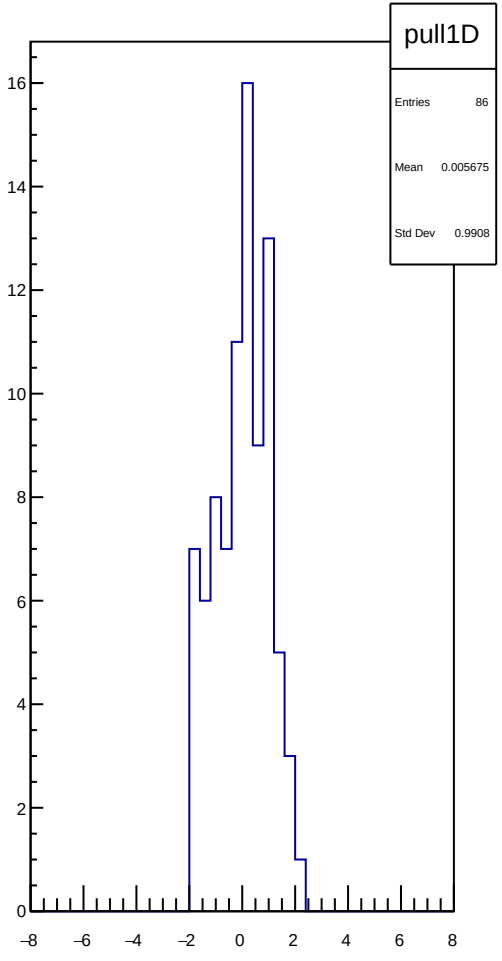

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.43 / 85
p0 −0.07629 ± 0.04535
pull
Entries 86
Mean 61.1
Std Dev 83.1
pull1D
Entries 86
Mean 0.005673
Std Dev 0.9908

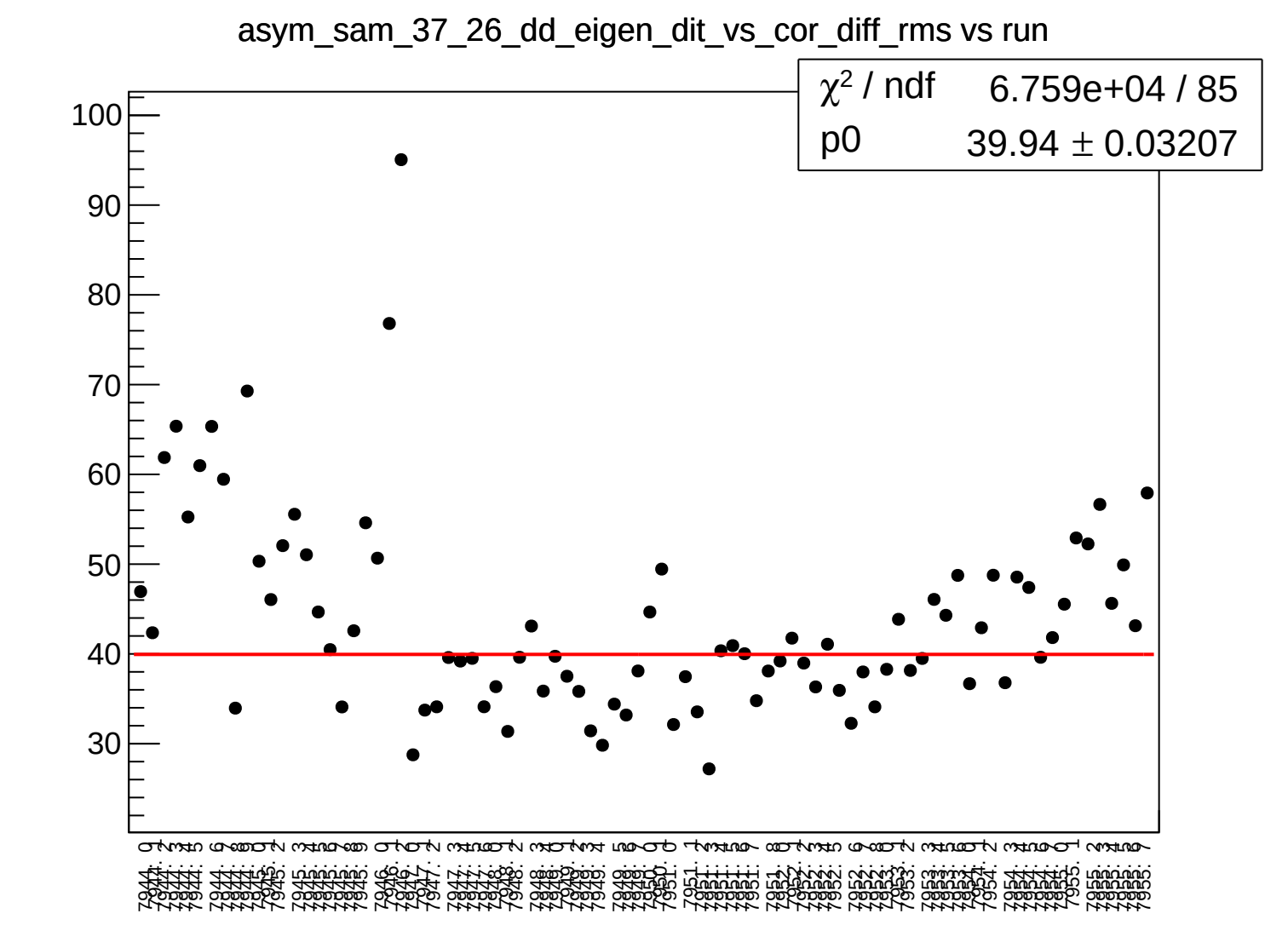

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.759e+04 / 85
p0 39.94 ± 0.03207
100
90
80
70
60
50
40
30


asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.28 / 85
p0 −9.176e−07 ± 1.861e−06
pull
Entries 86
Mean −428
Std Dev 0
pull1D
Entries 86
Mean 0.004189
Std Dev 1.03

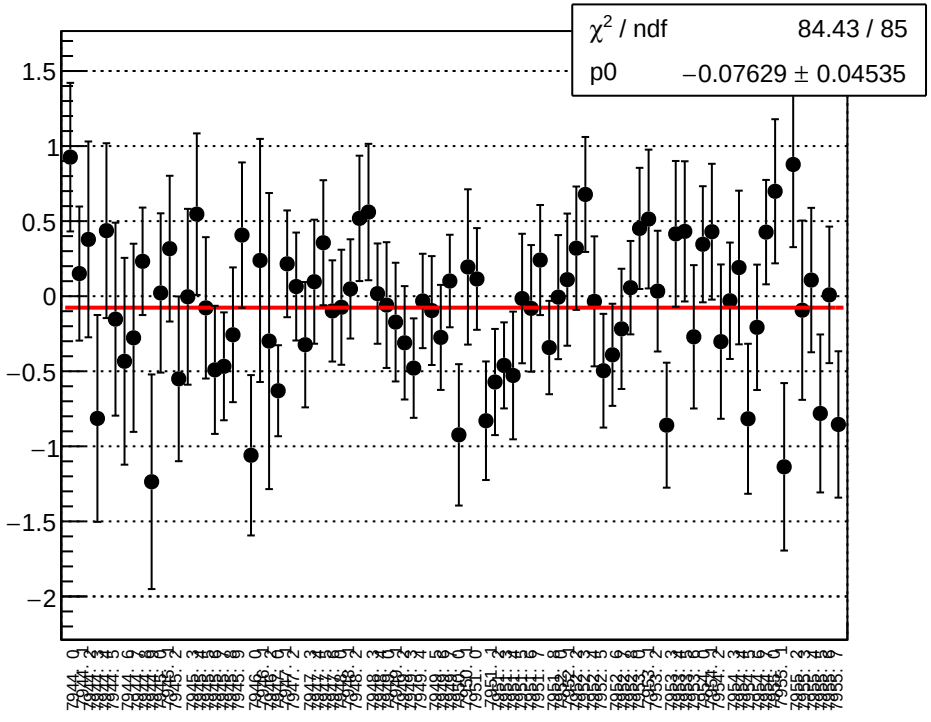

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5890 / 85
p0 0.001672 ± 1.316e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

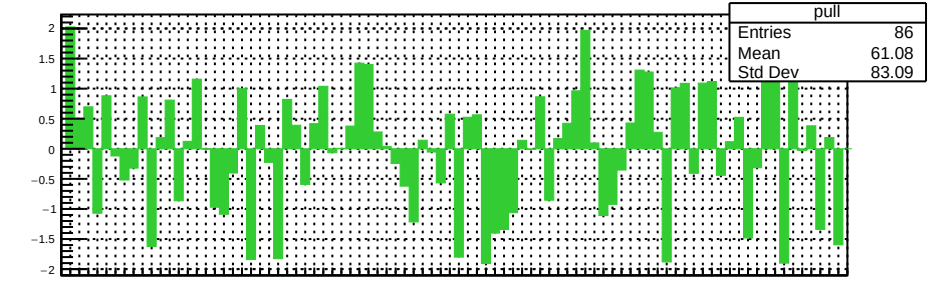

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.43 / 85
p0 −0.07629 ± 0.04535
pull
Entries 86
Mean 61.08
Std Dev 83.09

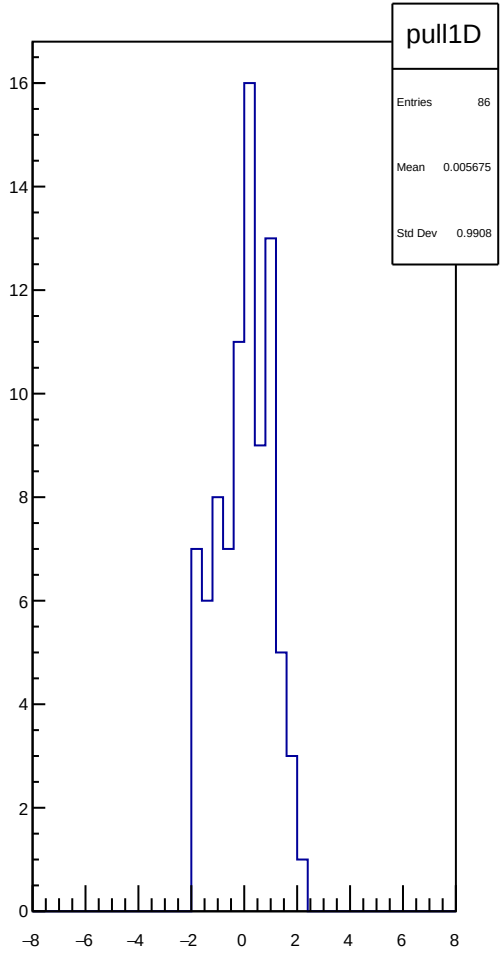

pull1D
Entries 86
Mean 0.005675
Std Dev 0.9908

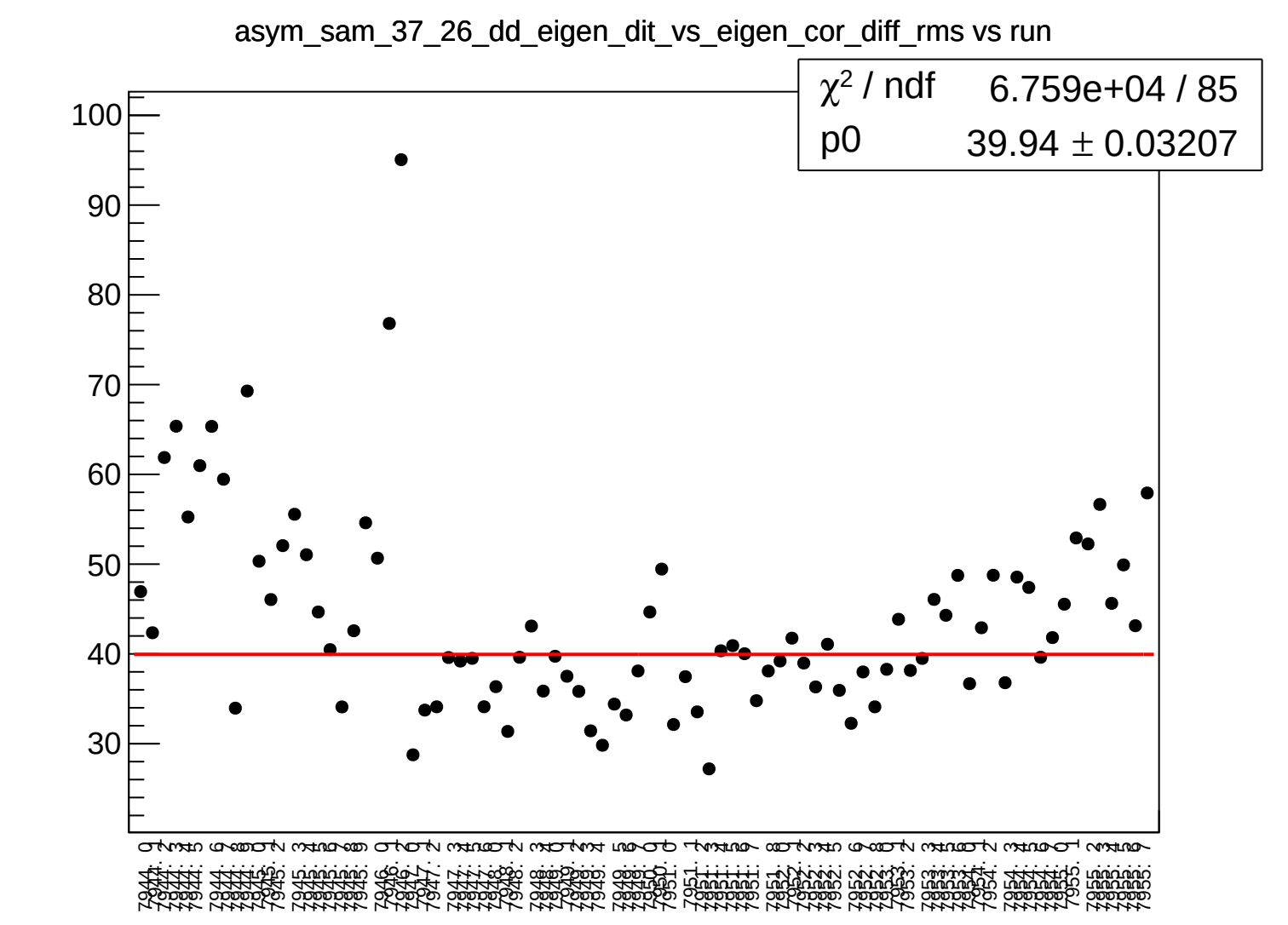

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.759e+04 / 85
p0 39.94 ± 0.03207
100
90
80
70
60
50
40
30

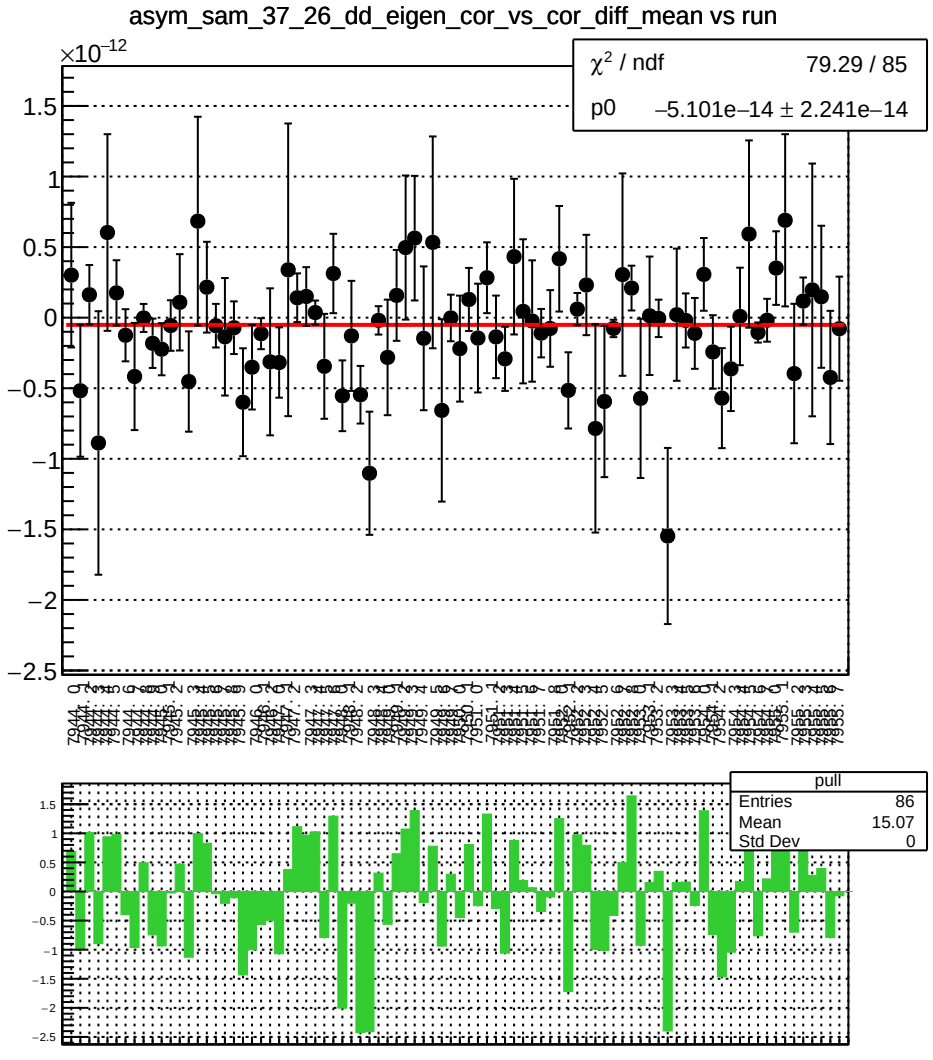
asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

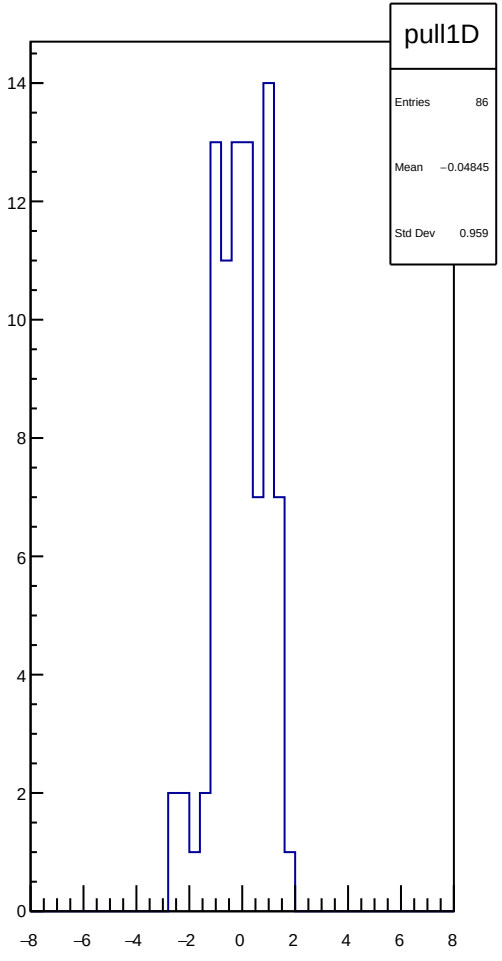


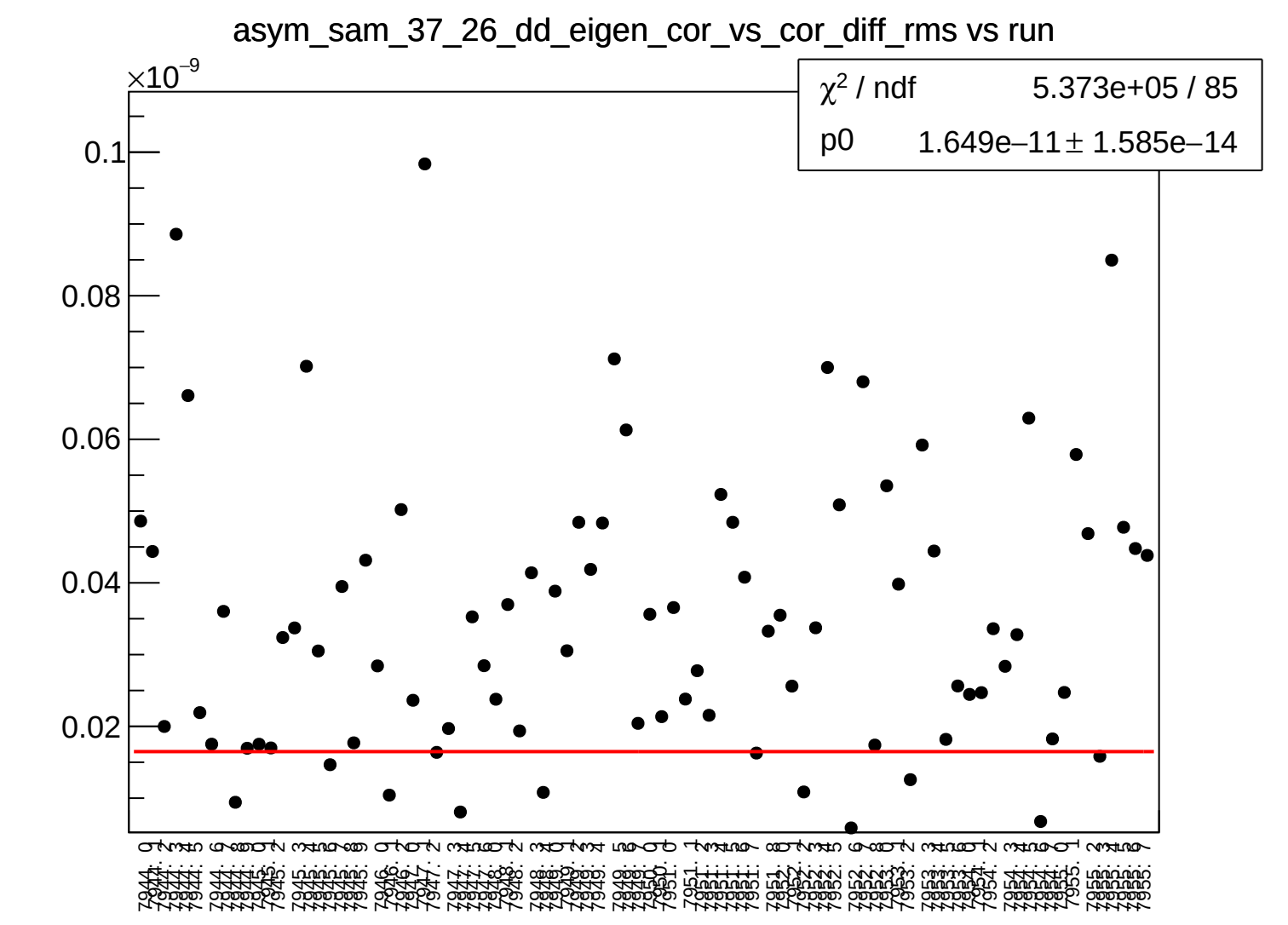


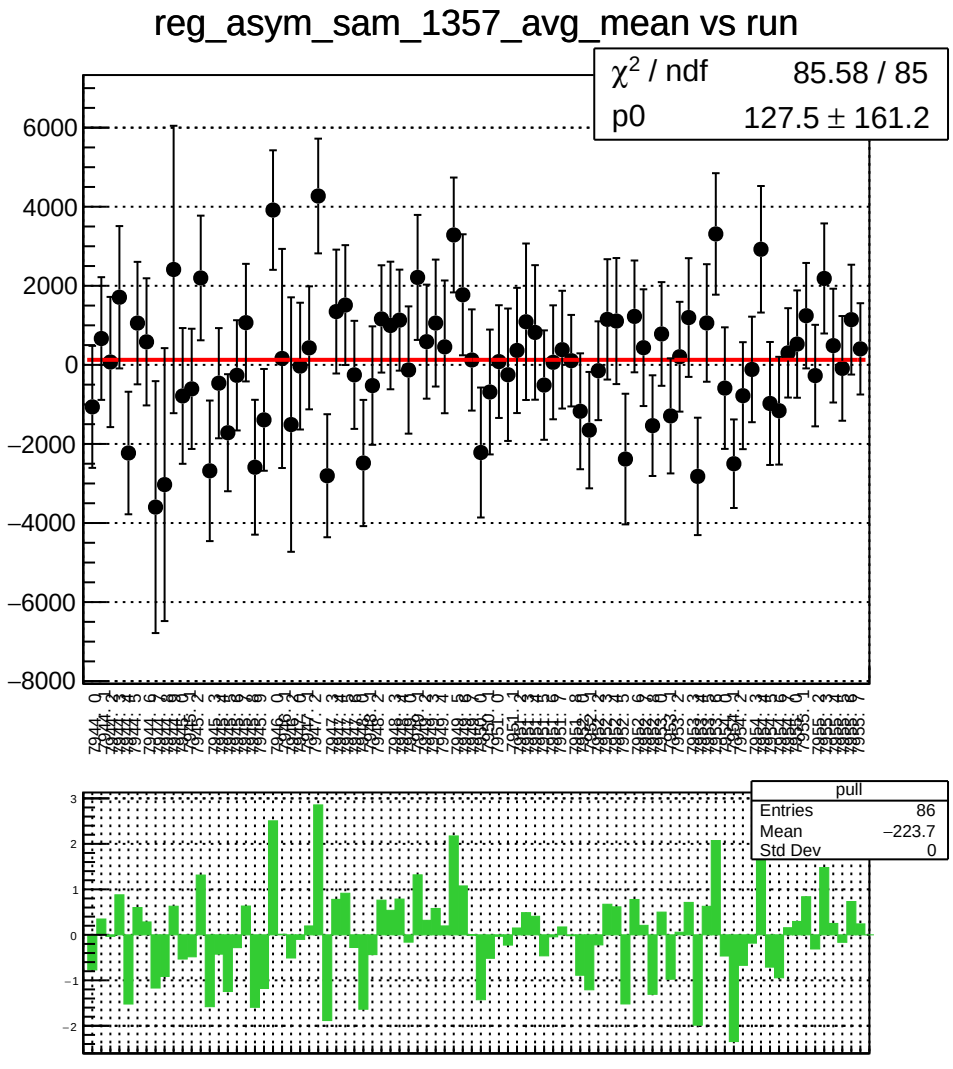


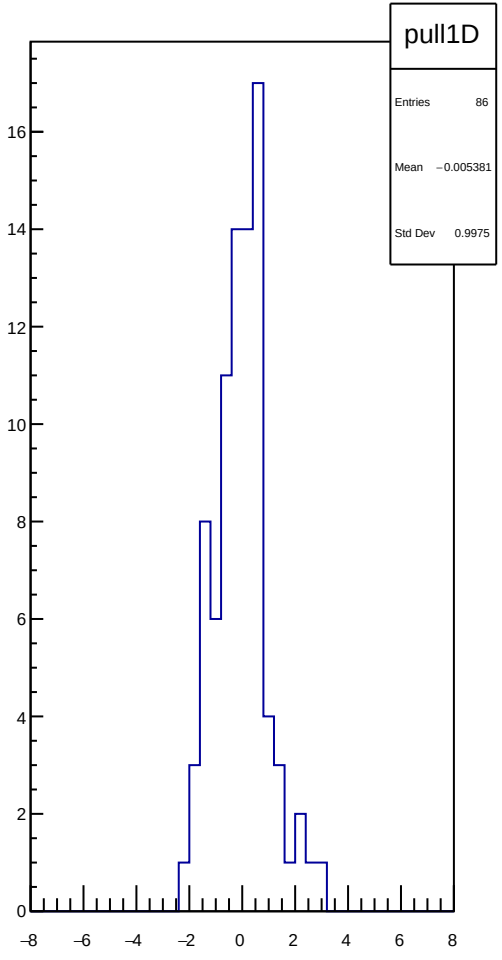

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.759e+04 / 85
p0 39.94 ± 0.03207
100
90
80
70
60
50
40
30

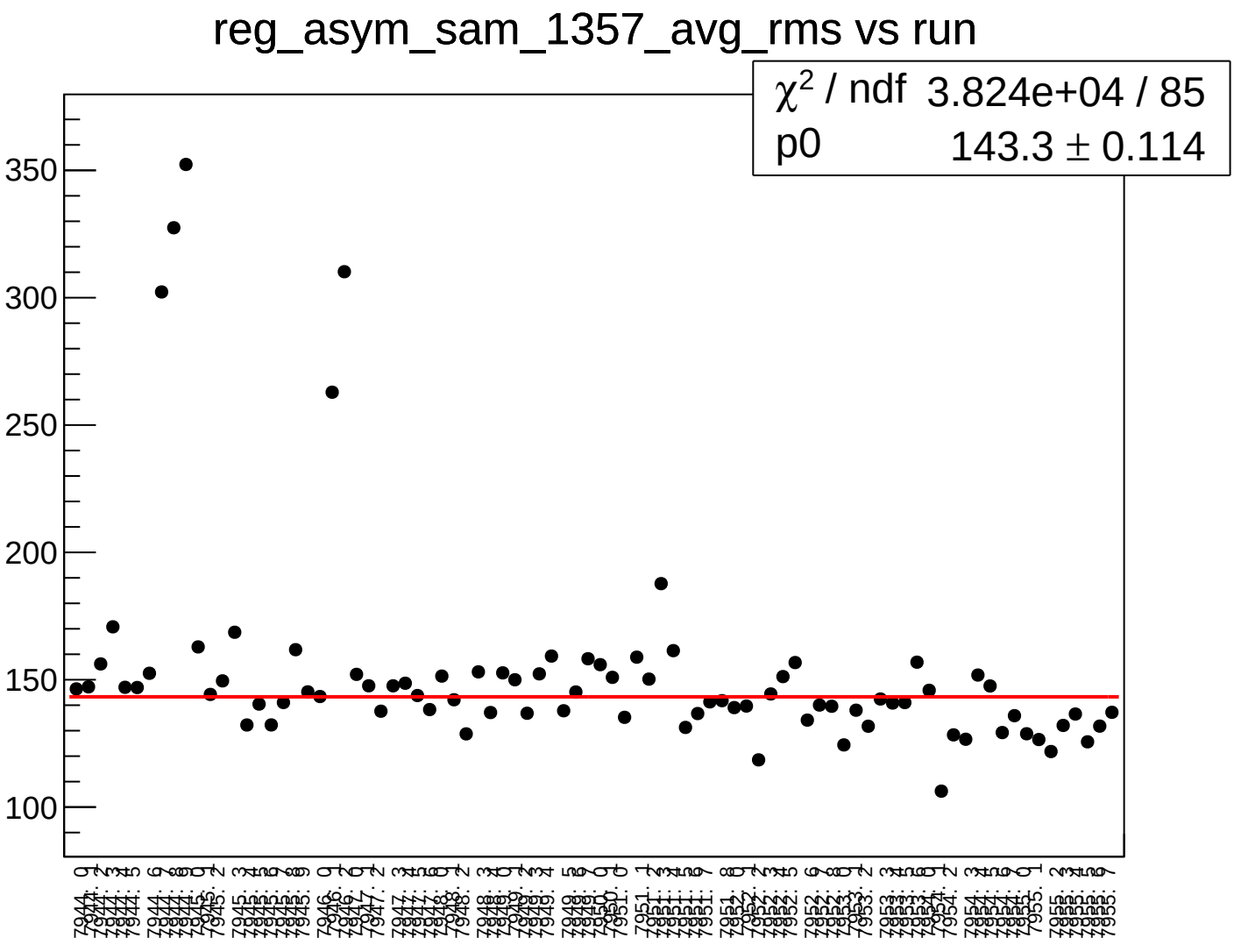

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.29 / 85
p0 −5.101e−14 ± 2.241e−14
pull
Entries 86
Mean 15.07
Std Dev 0

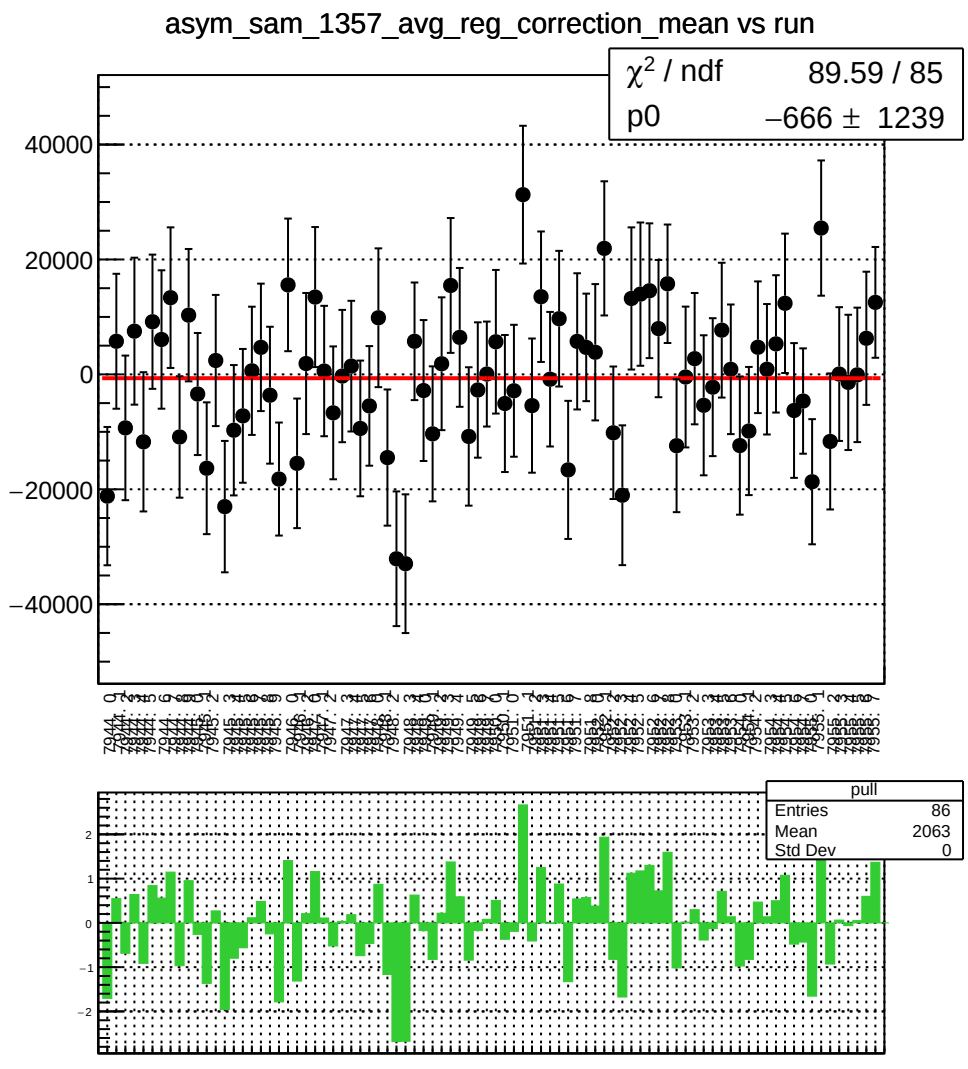

pull1D
Entries 86
Mean −0.04845
Std Dev 0.959

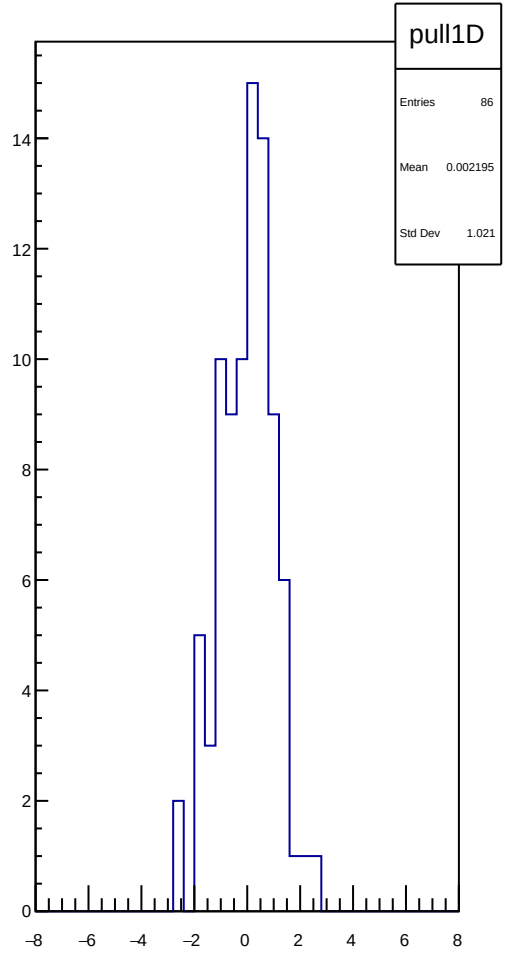

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.373e+05 / 85
p0 1.649e−11 ± 1.585e−14
0.1
0.08
0.06
0.04
0.02

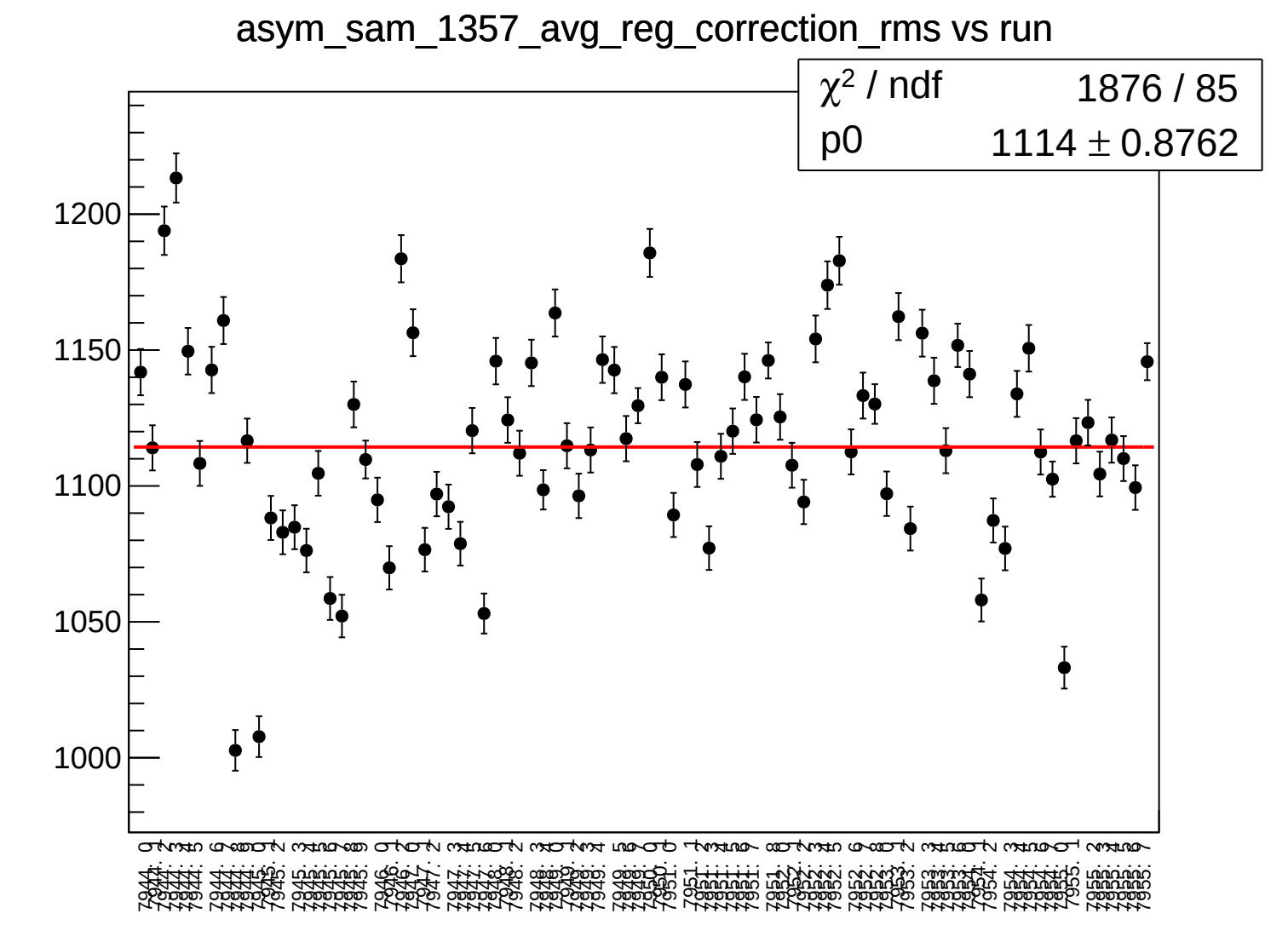

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 85.58 / 85
p0 127.5 ± 161.2
pull
Entries 86
Mean −223.7
Std Dev 0

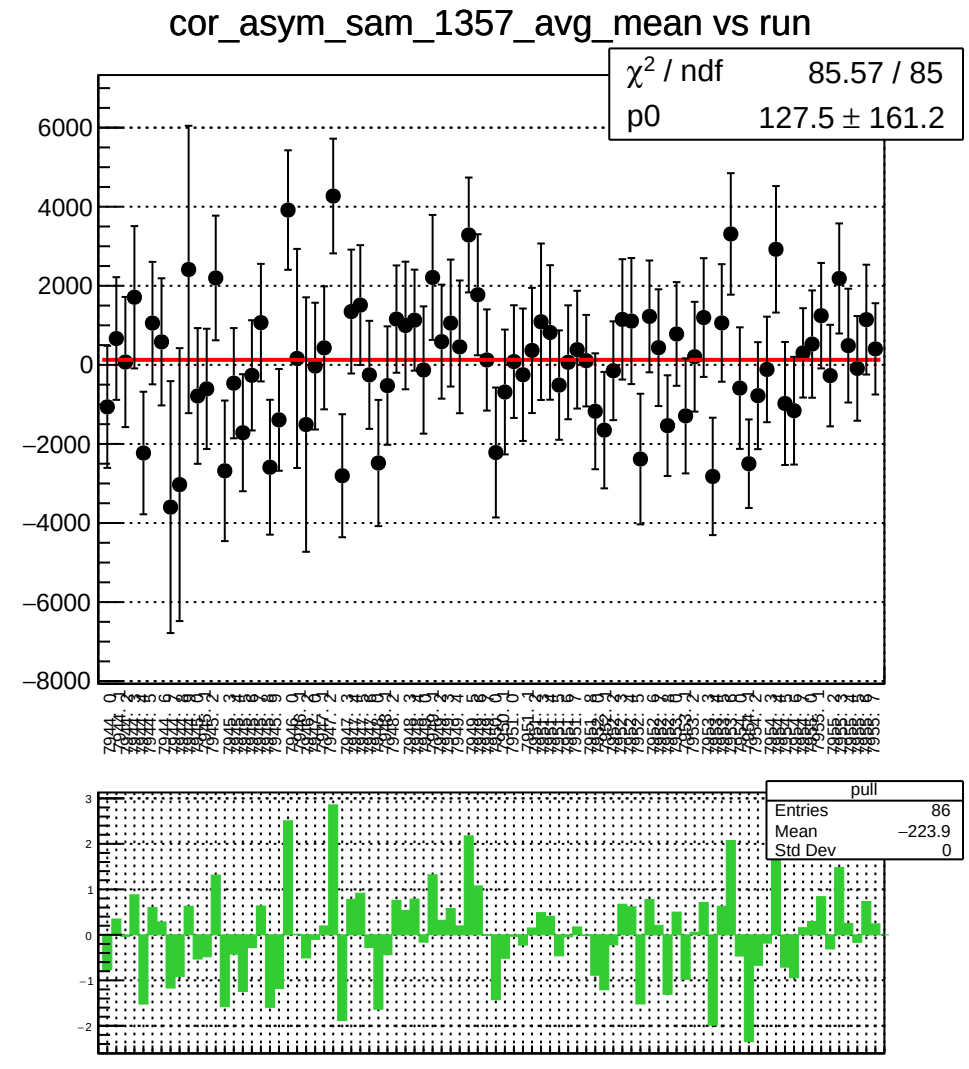

pull1D
Entries 86
Mean −0.005381
Std Dev 0.9975

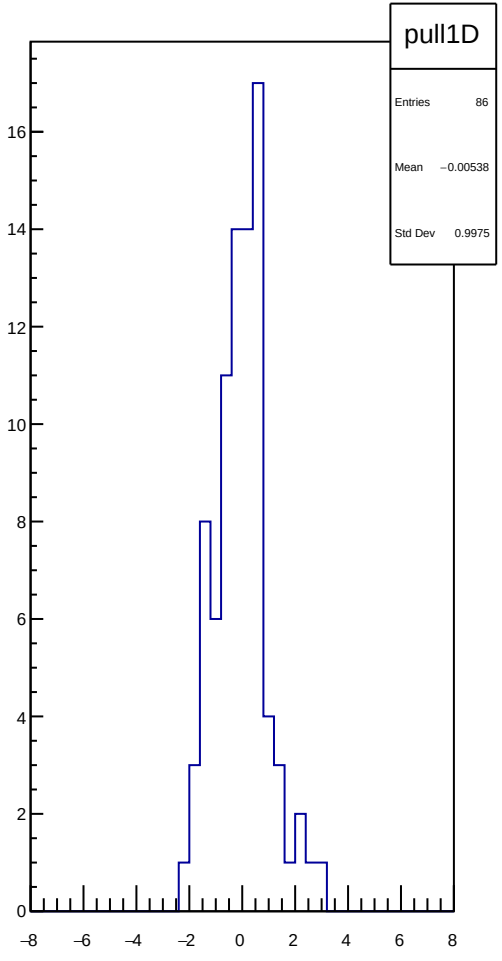

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.824e+04 / 85
p0 143.3 ± 0.114
350
300
250
200
150
100

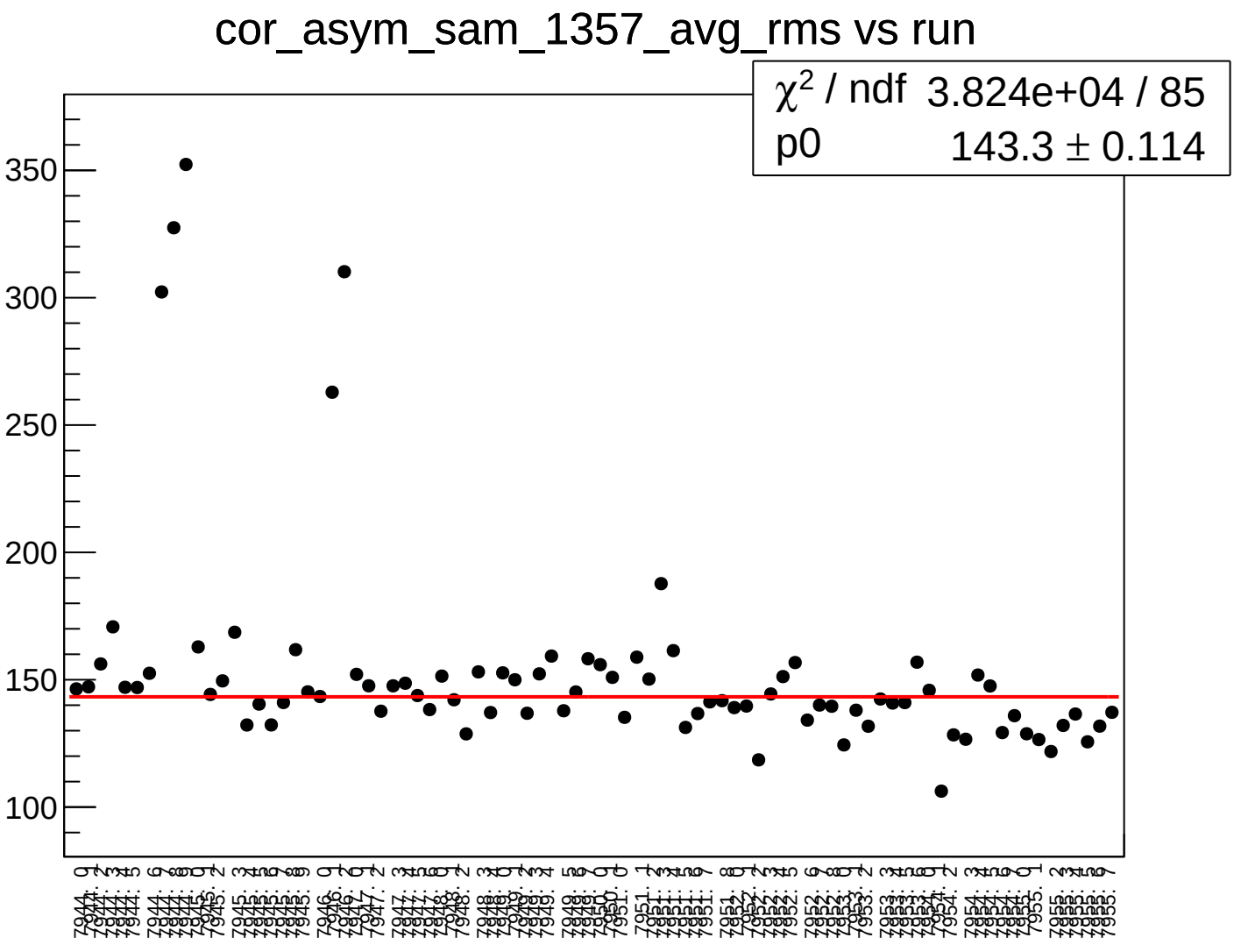

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 89.59 / 85
p0 −666 ± 1239
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 2063
Std Dev 0
2
1
0
−1
−2

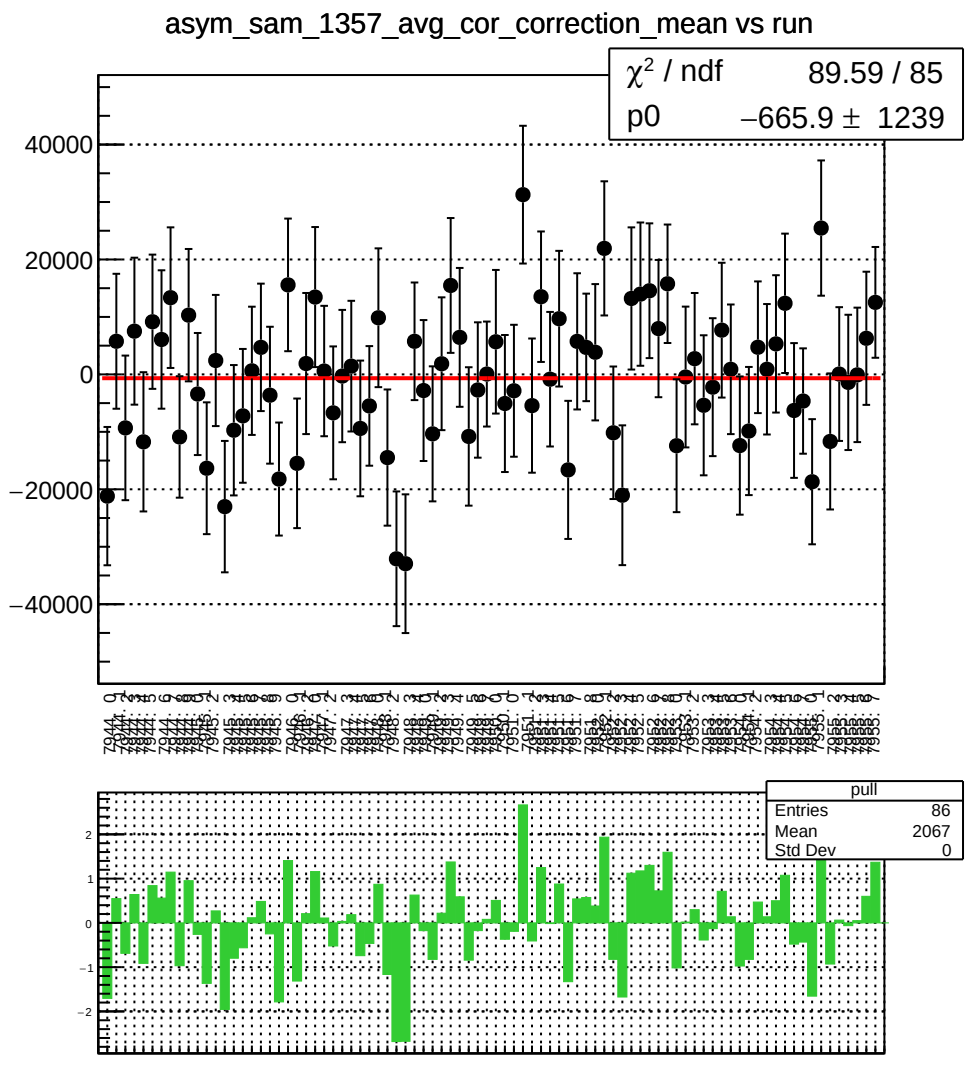

pull1D
Entries 86
Mean 0.002195
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

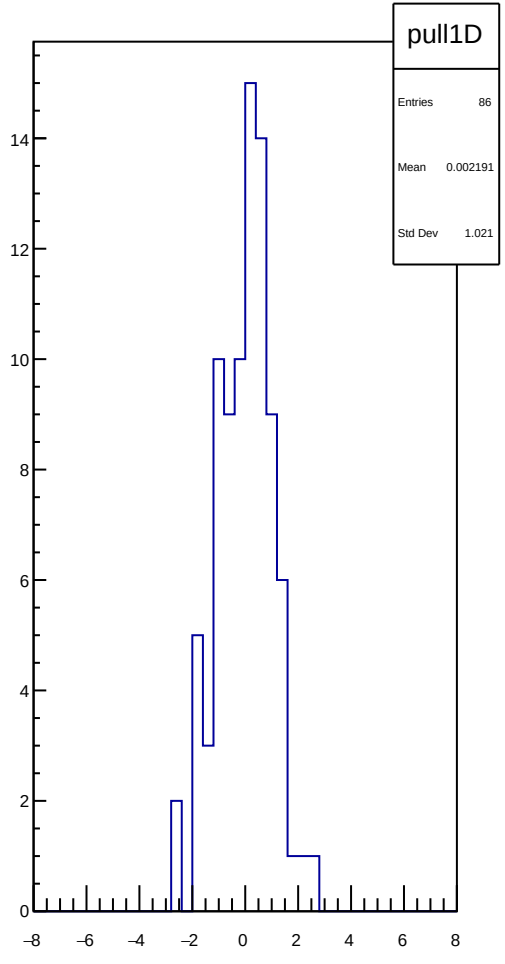

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1876 / 85
p0 1114 ± 0.8762
1200
1150
1100
1050
1000

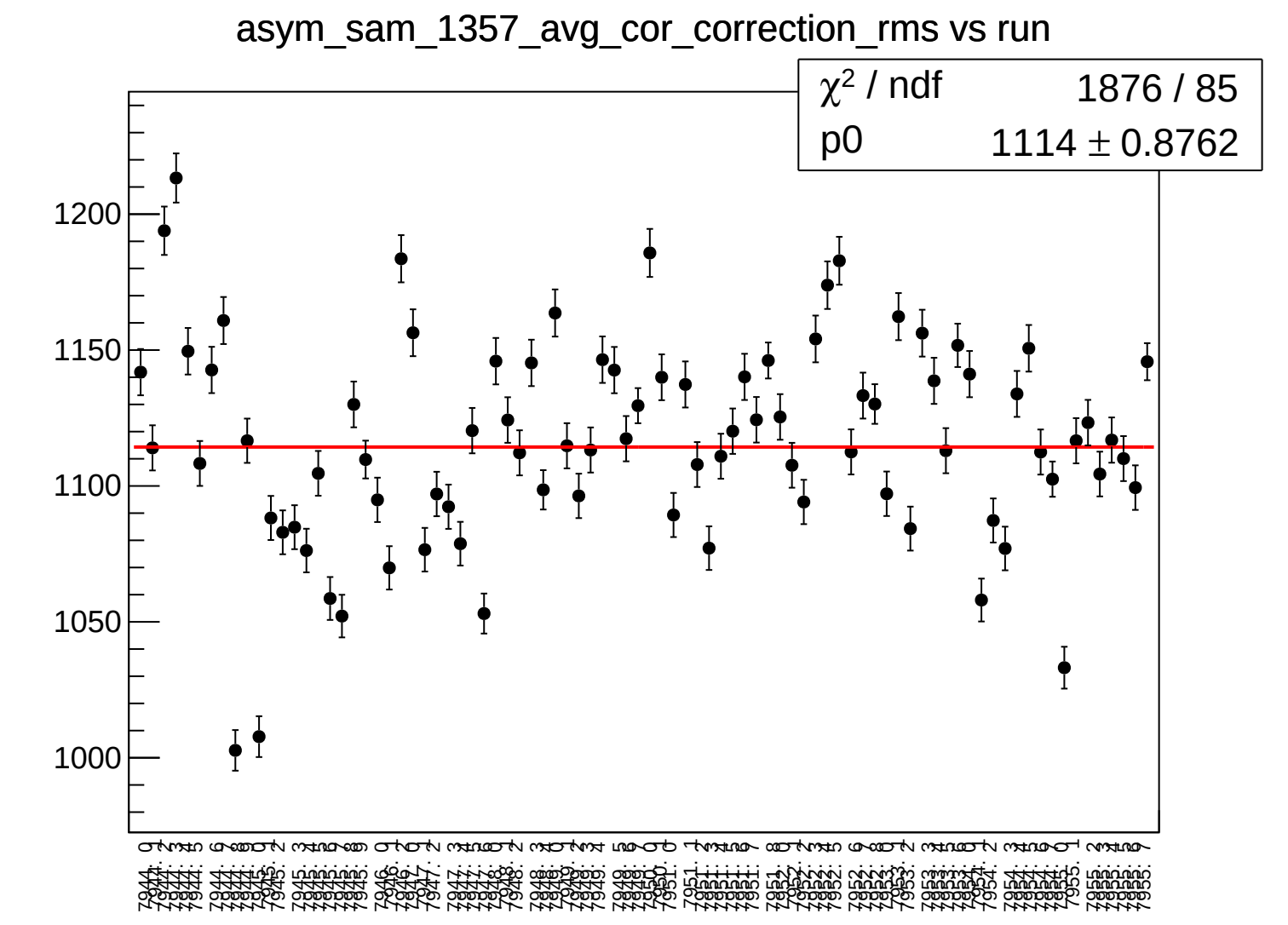

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 85.57 / 85
p0 127.5 ± 161.2
pull
Entries 86
Mean −223.9
Std Dev 0

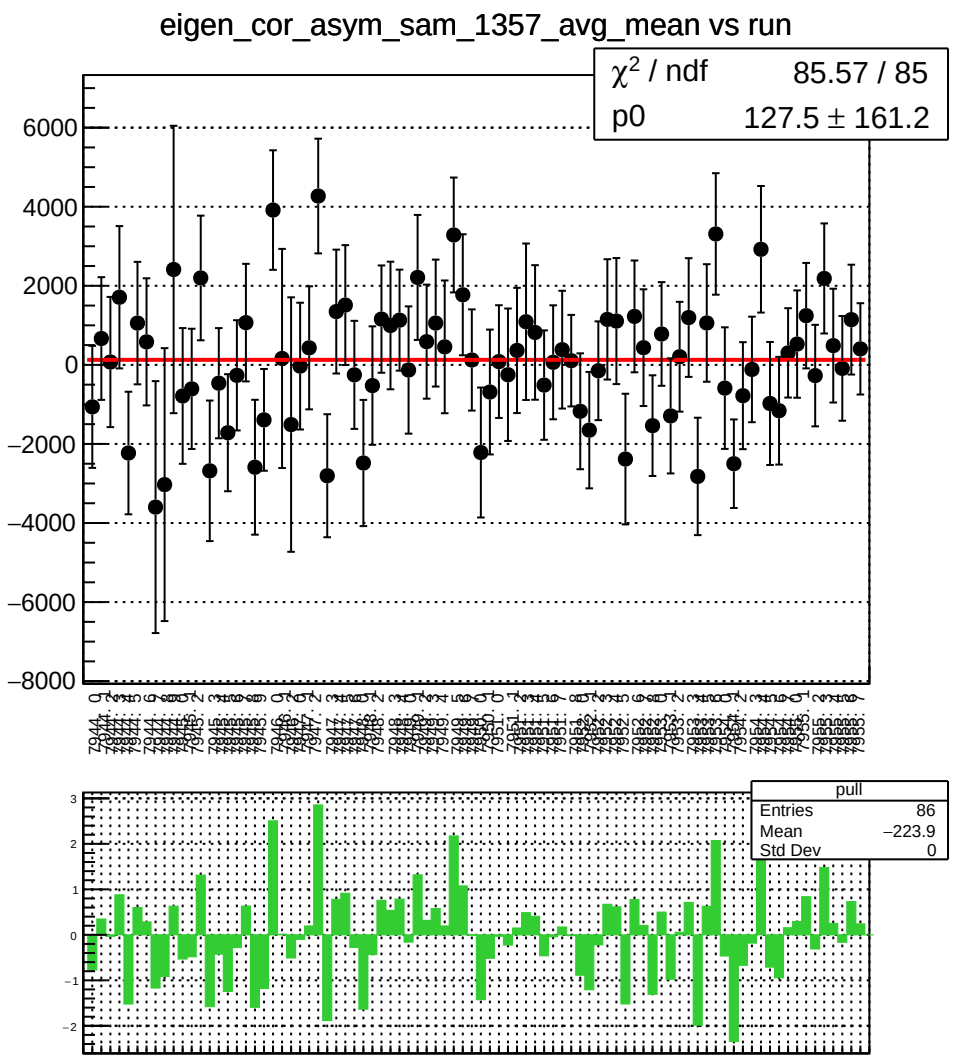

pull1D
Entries 86
Mean −0.00538
Std Dev 0.9975

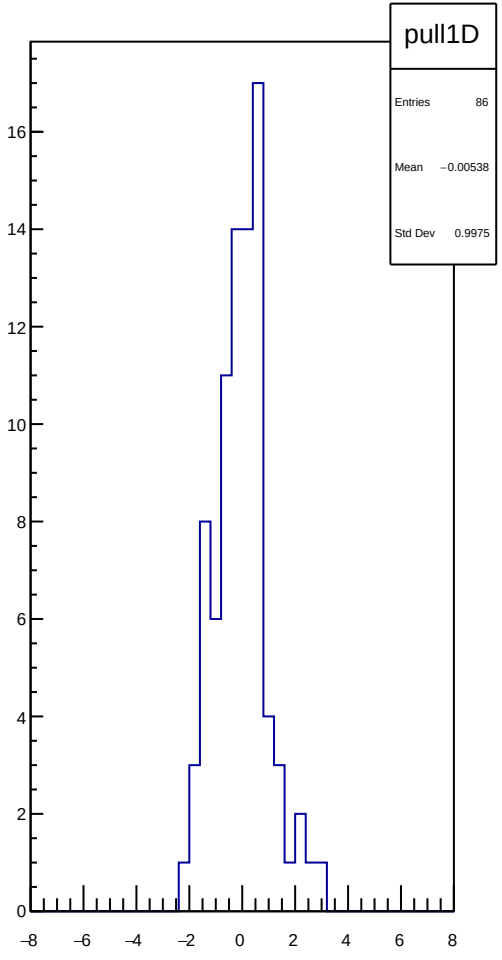

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3.824e+04 / 85
p0 143.3 ± 0.114
350
300
250
200
150
100

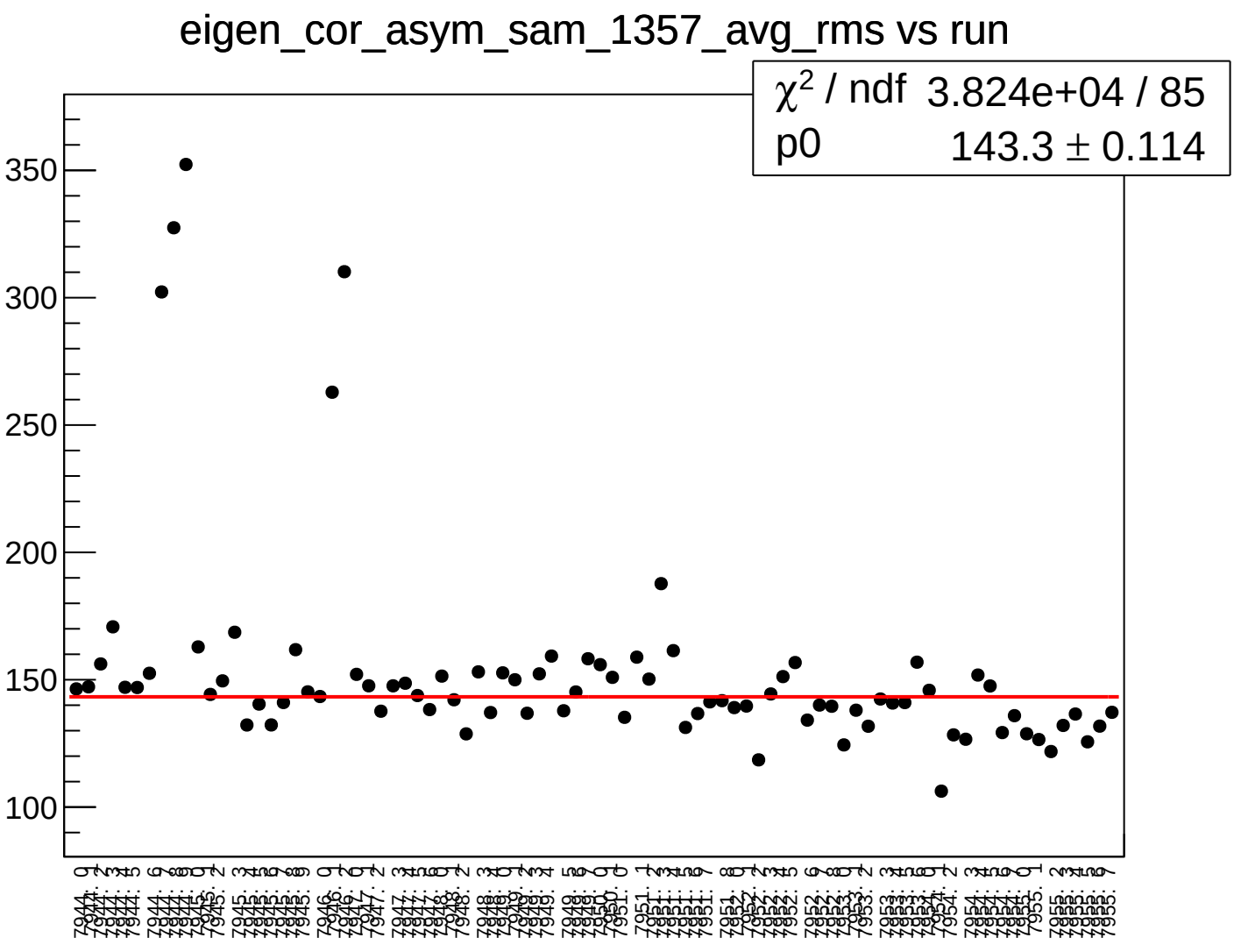

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 89.59 / 85
p0 −665.9 ± 1239
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 2067
Std Dev 0
2
1
0
−1
−2

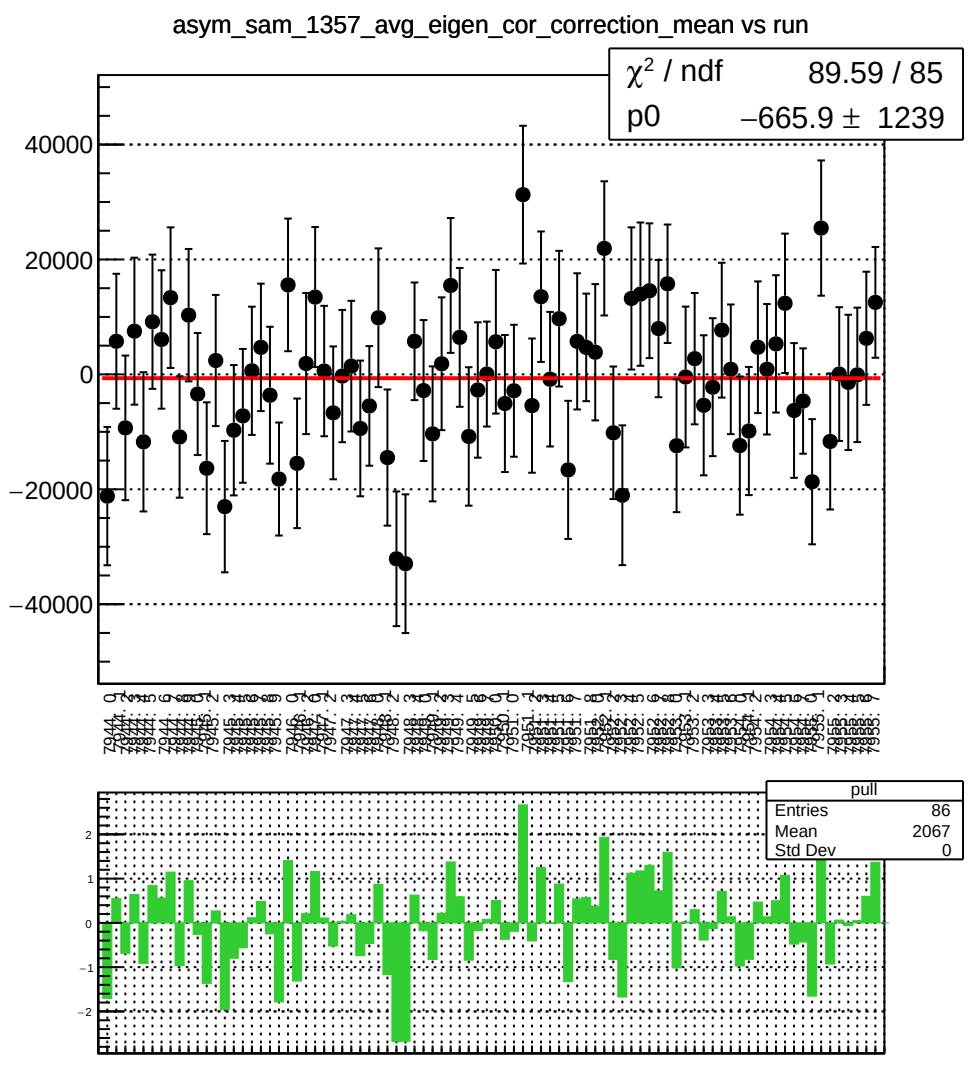

pull1D
Entries 86
Mean 0.002191
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

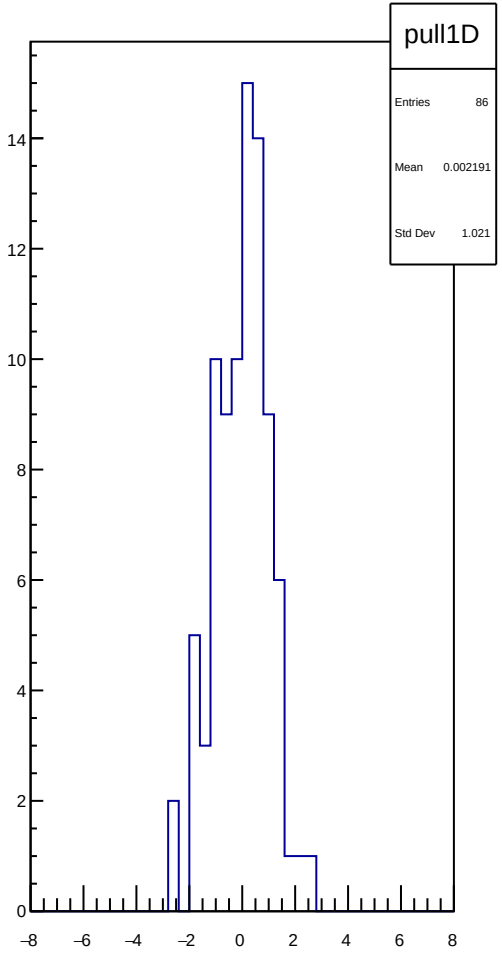

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1876 / 85
p0 1114 ± 0.8762
1200
1150
1100
1050
1000

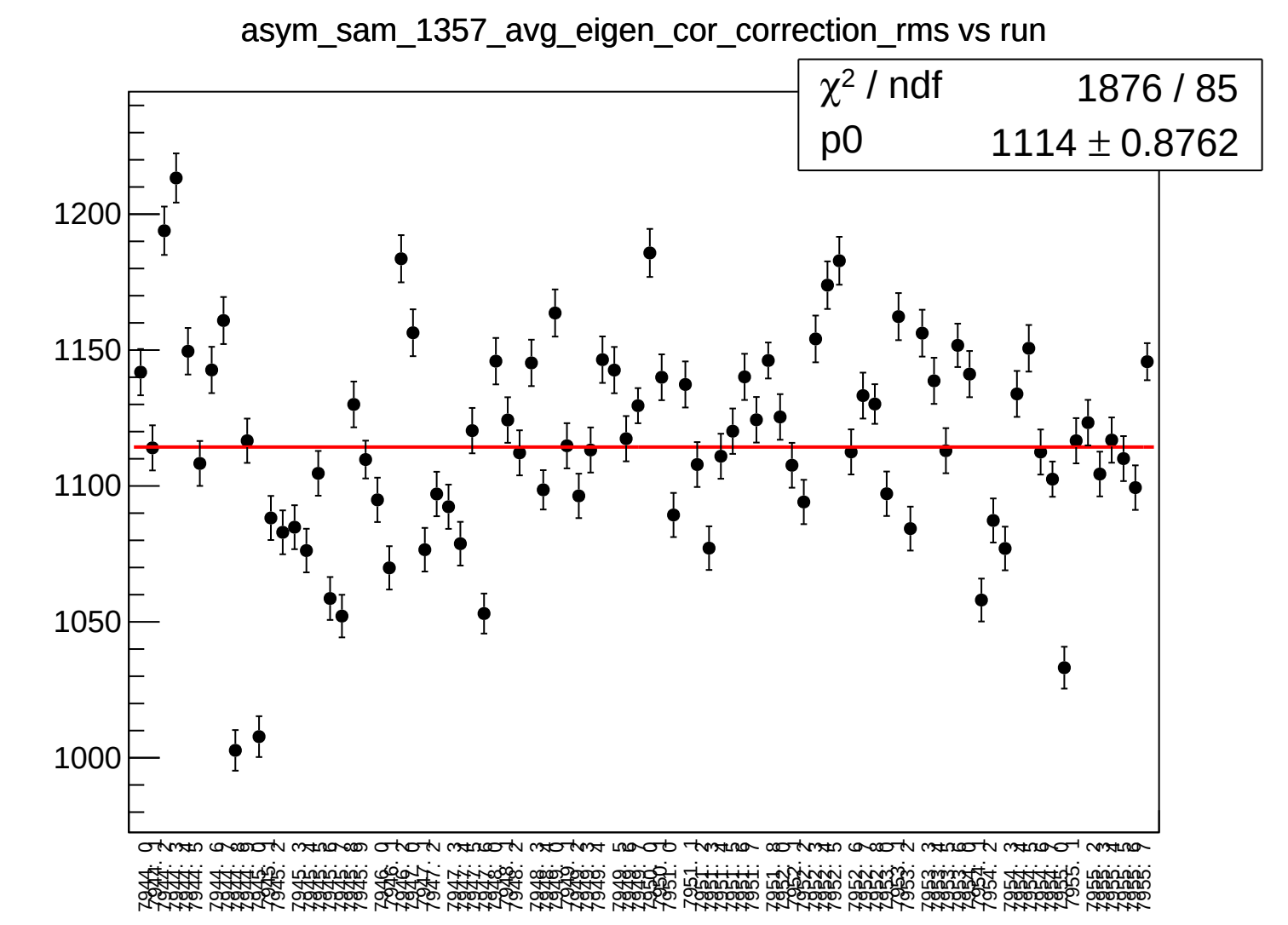

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 85.57 / 85
p0 127.5 ± 161.2
pull
Entries 86
Mean −223.9
Std Dev 0

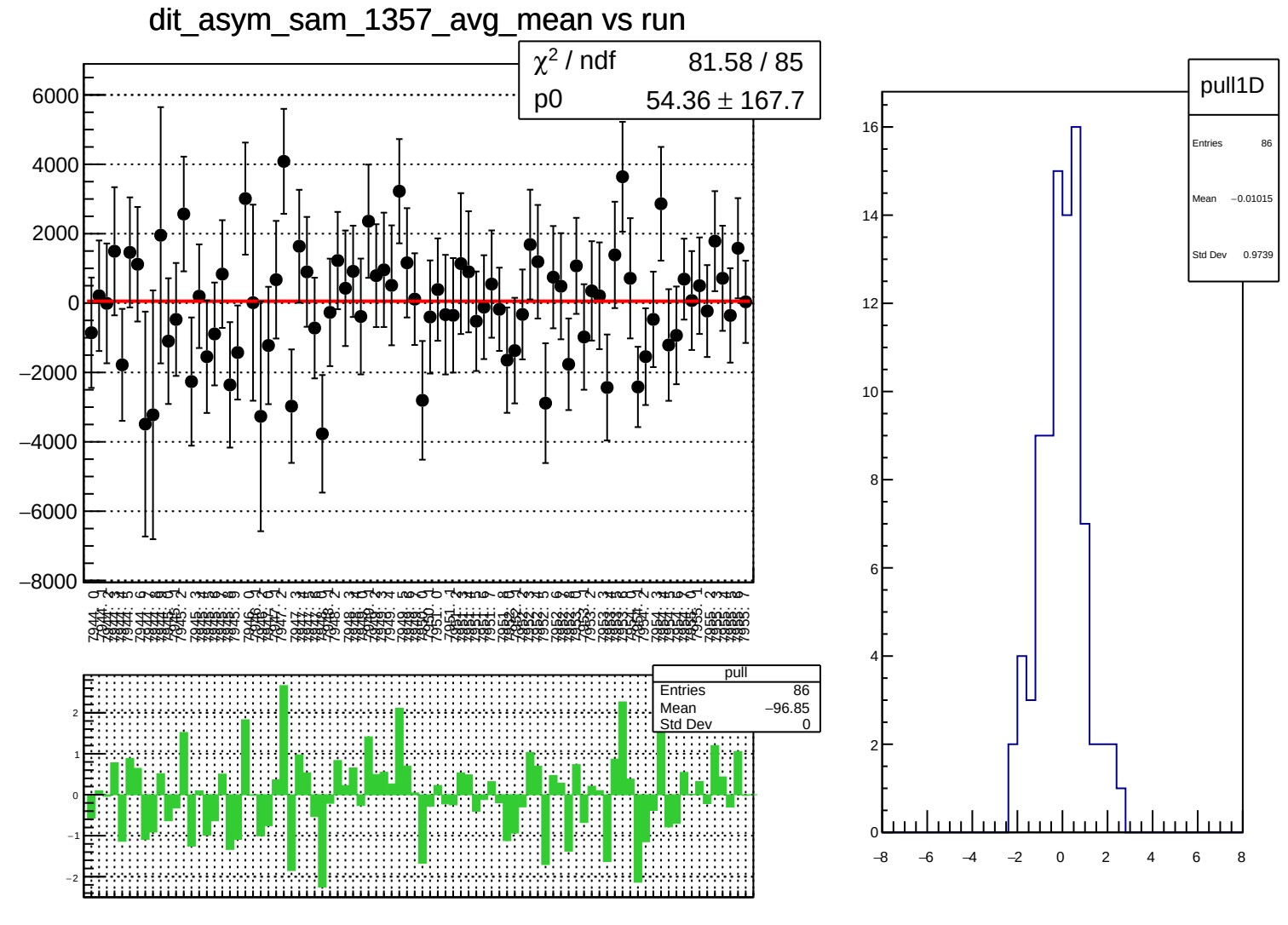

pull1D
Entries 86
Mean −0.00538
Std Dev 0.9975

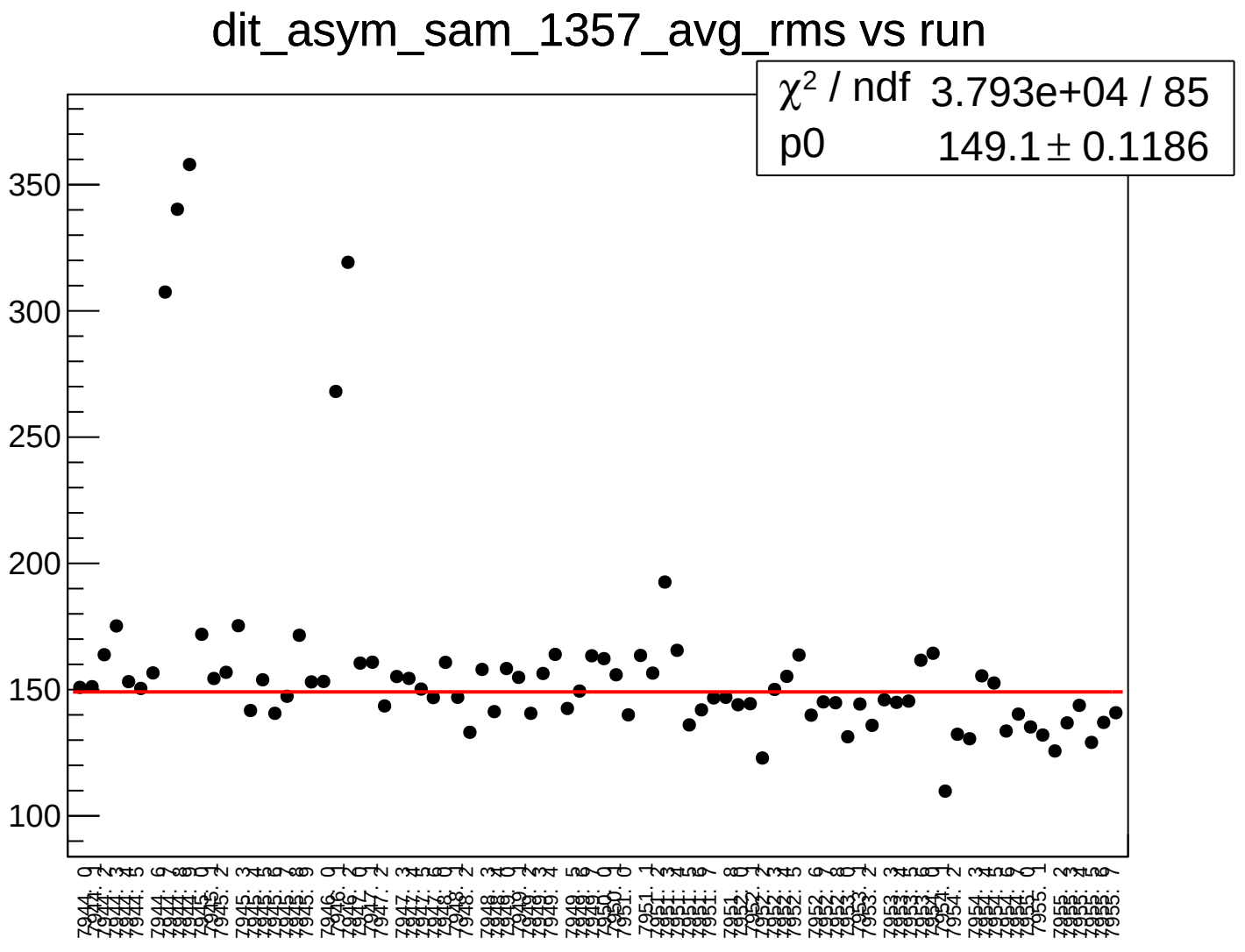

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3.824e+04 / 85
p0 143.3 ± 0.114
350
300
250
200
150
100

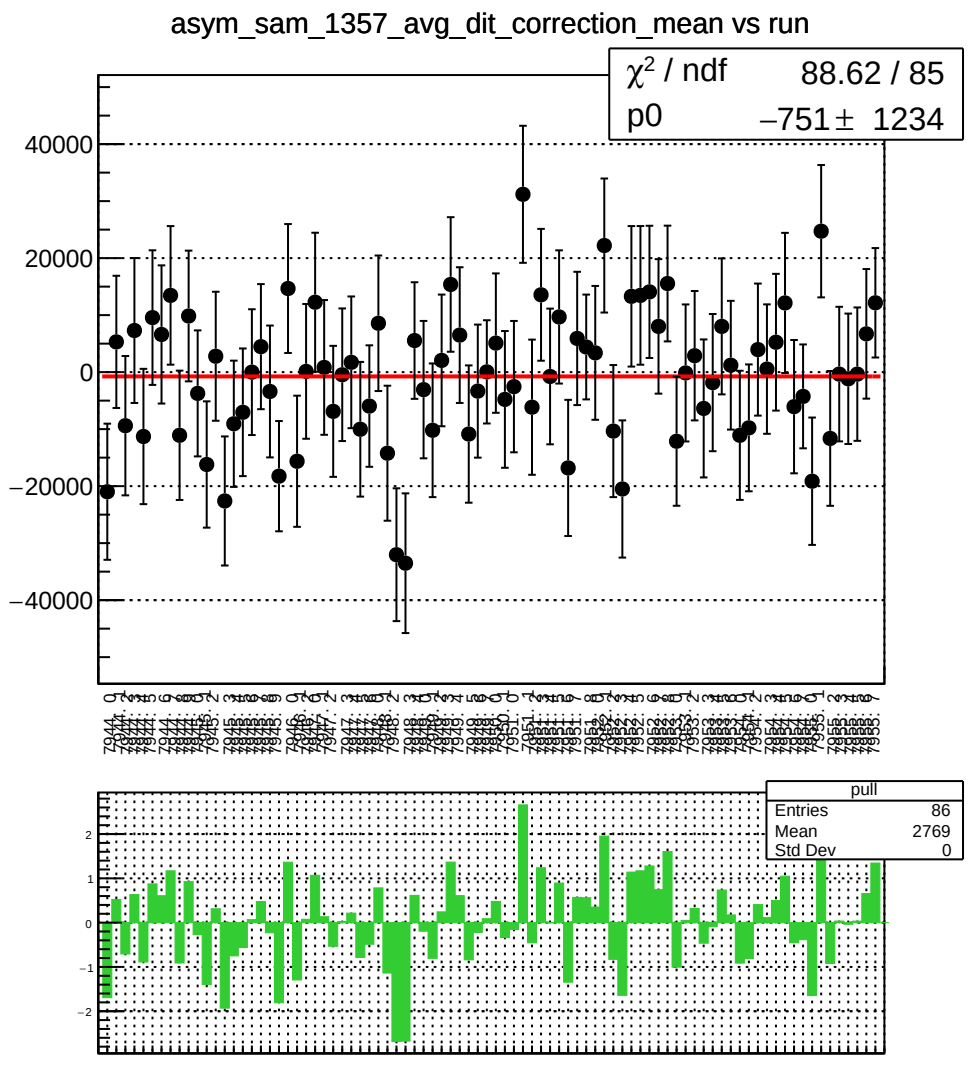

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.59 / 85
p0 −665.9 ± 1239
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 2067
Std Dev 0
2
1
0
−1
−2

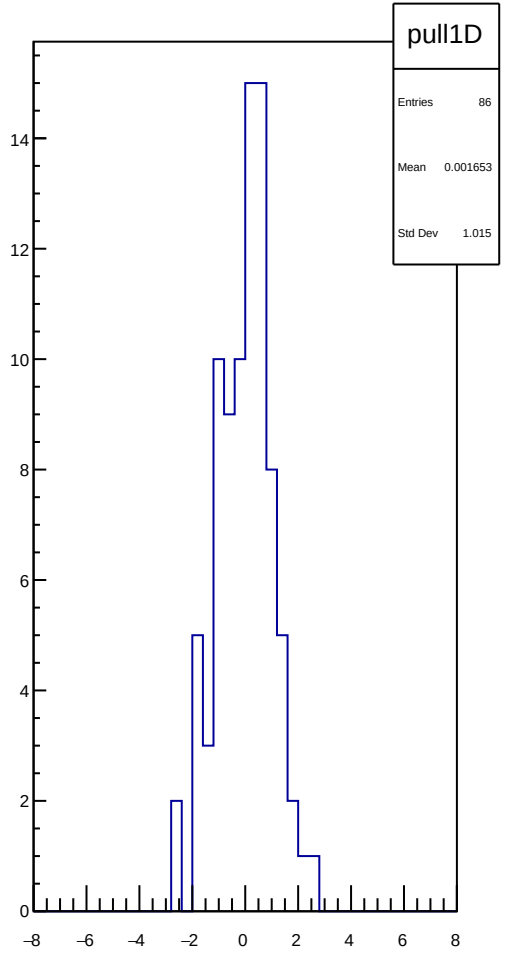

pull1D
Entries 86
Mean 0.002191
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

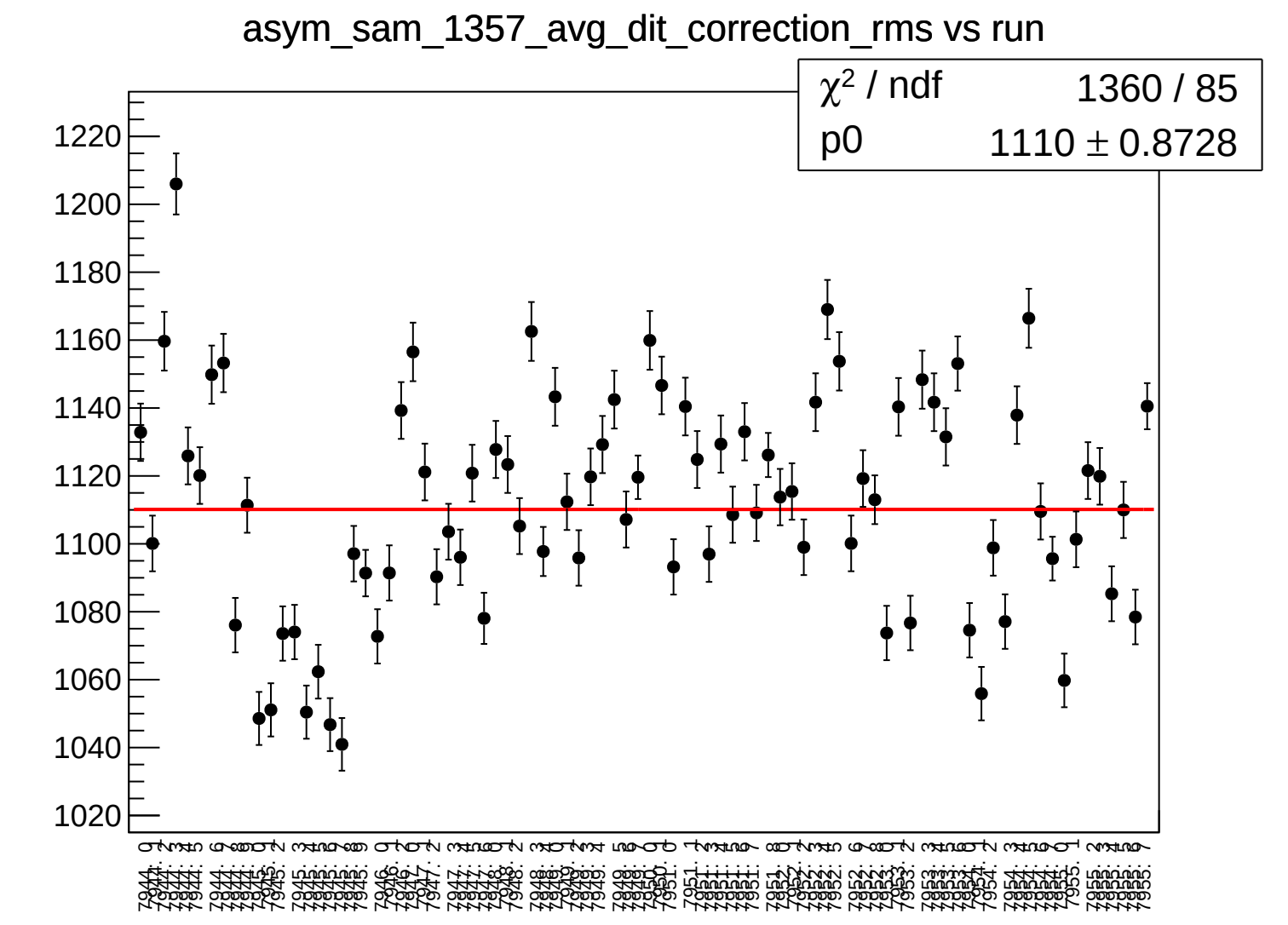

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1876 / 85
p0 1114 ± 0.8762
1200
1150
1100
1050
1000

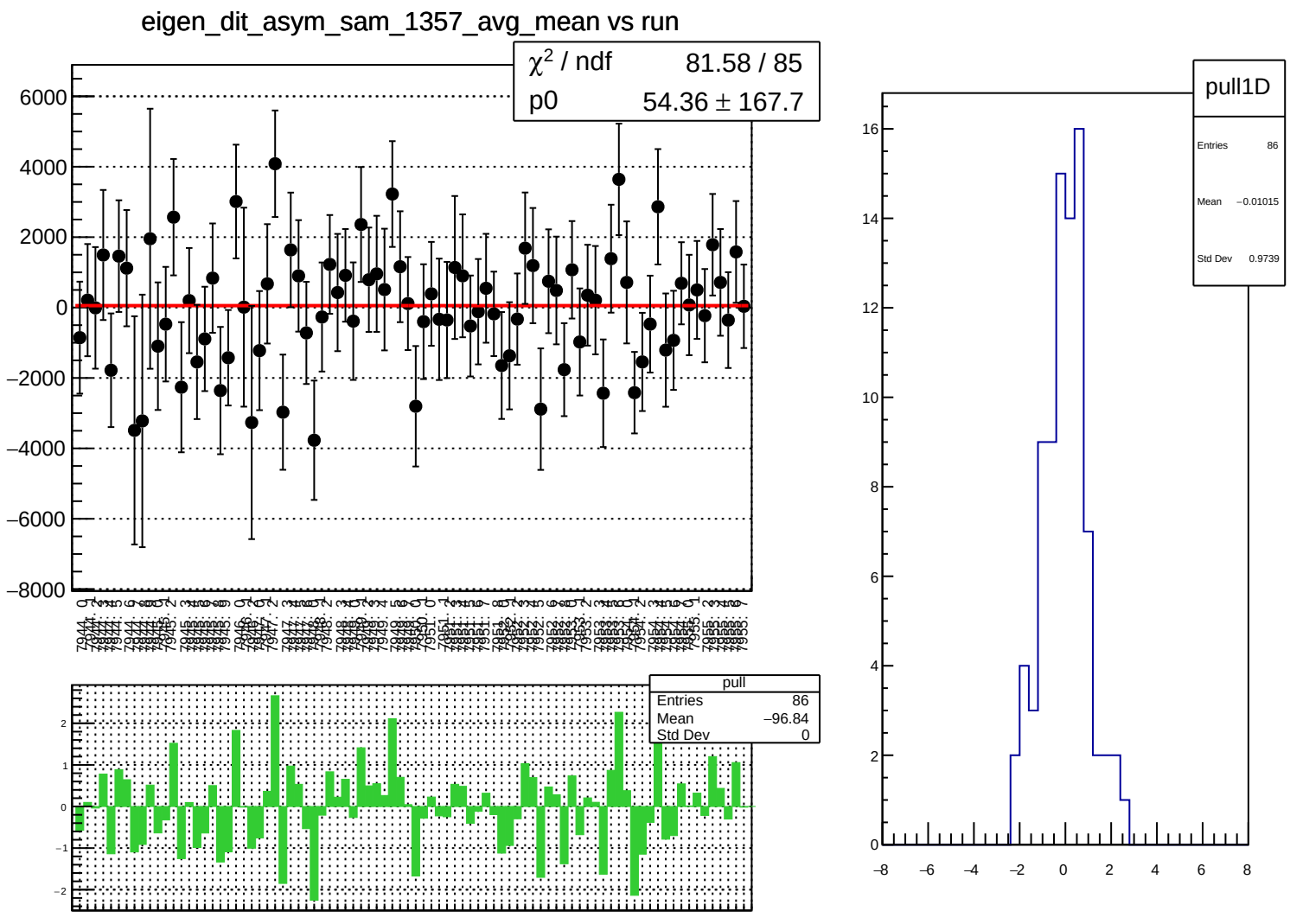

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 81.58 / 85
p0 54.36 ± 167.7
pull
Entries 86
Mean −96.85
Std Dev 0
pull1D
Entries 86
Mean −0.01015
Std Dev 0.9739

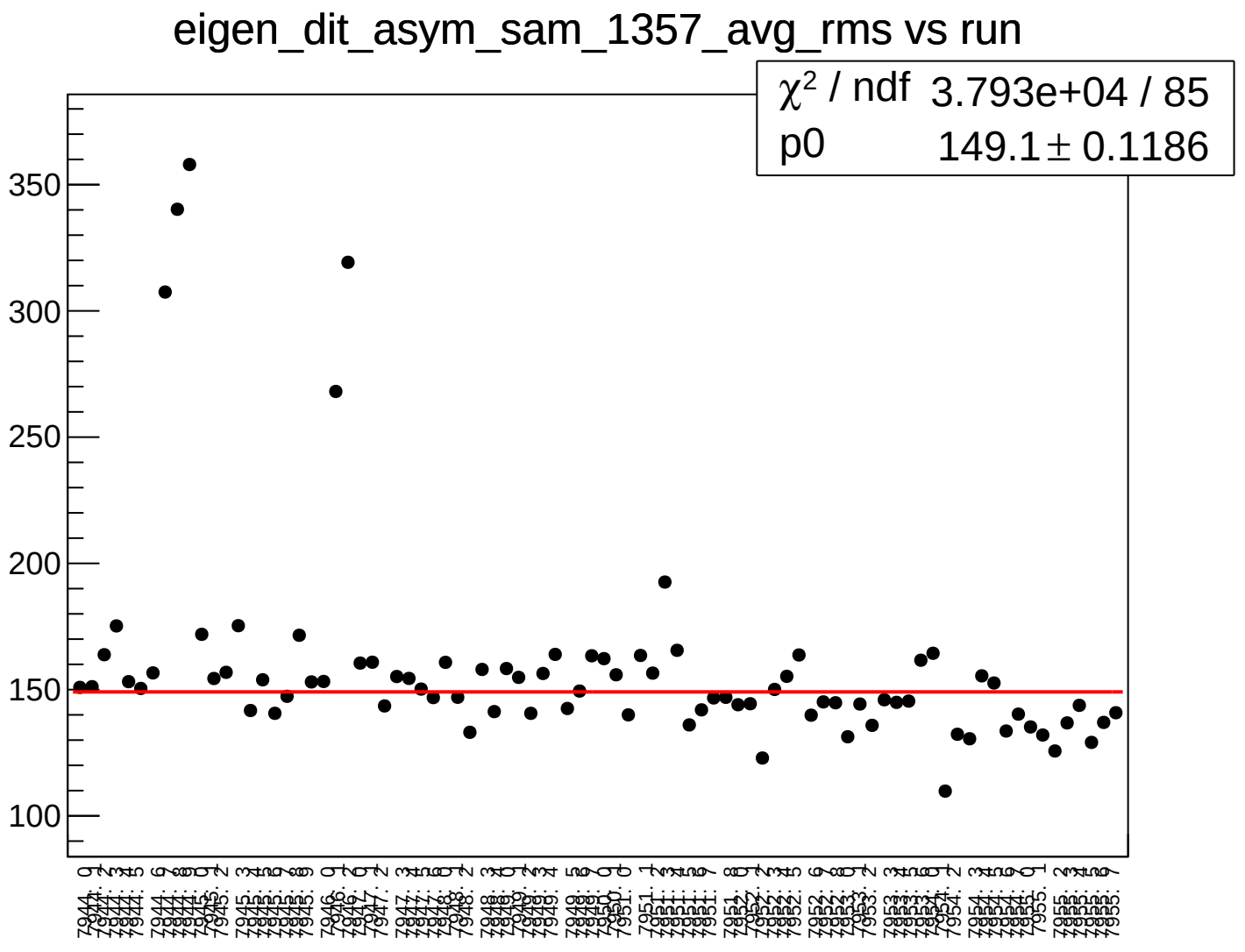

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.793e+04 / 85
p0 149.1 ± 0.1186
350
300
250
200
150
100

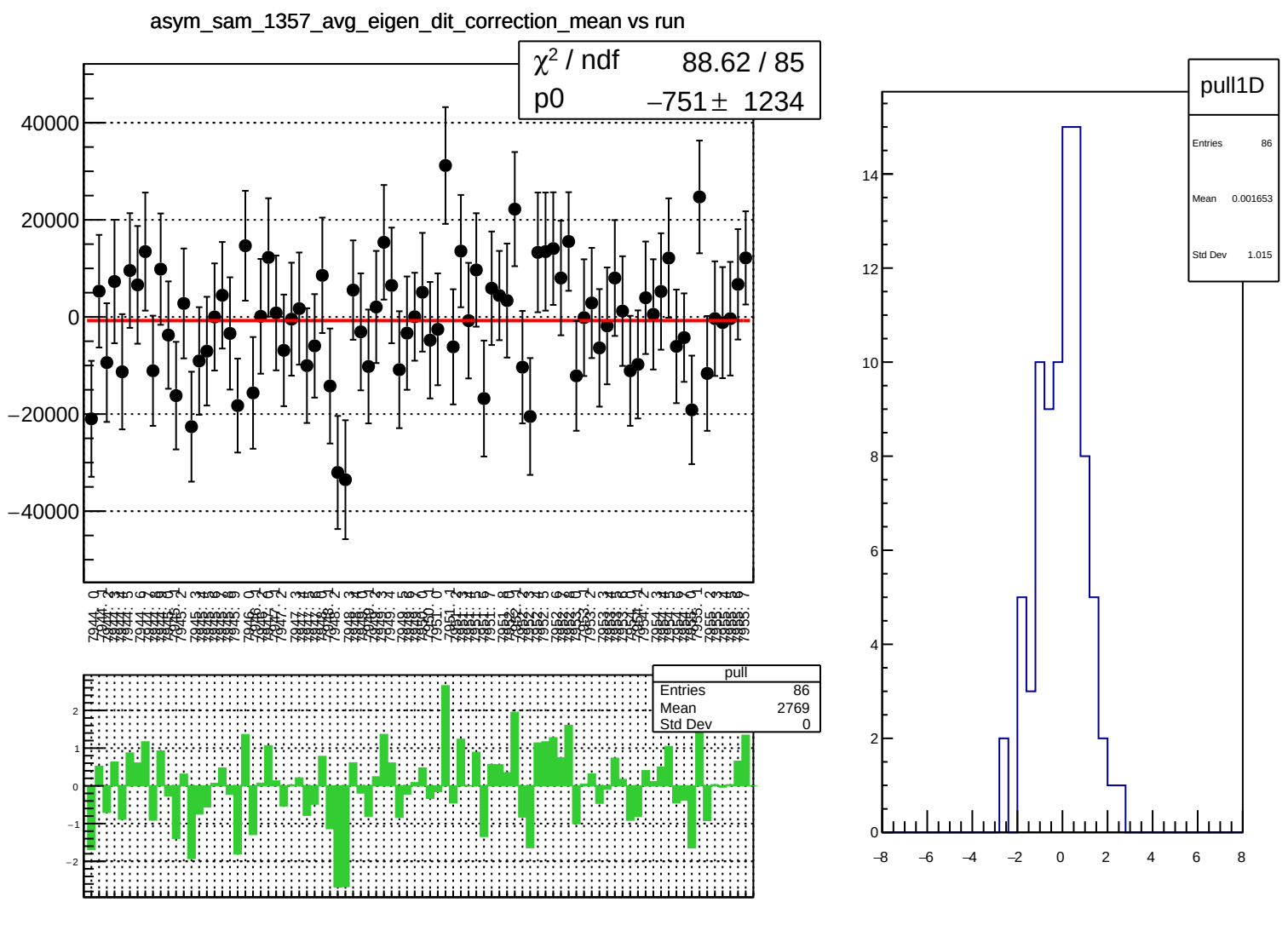

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 88.62 / 85
p0 −751 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 2769
Std Dev 0
2
1
0
−1
−2

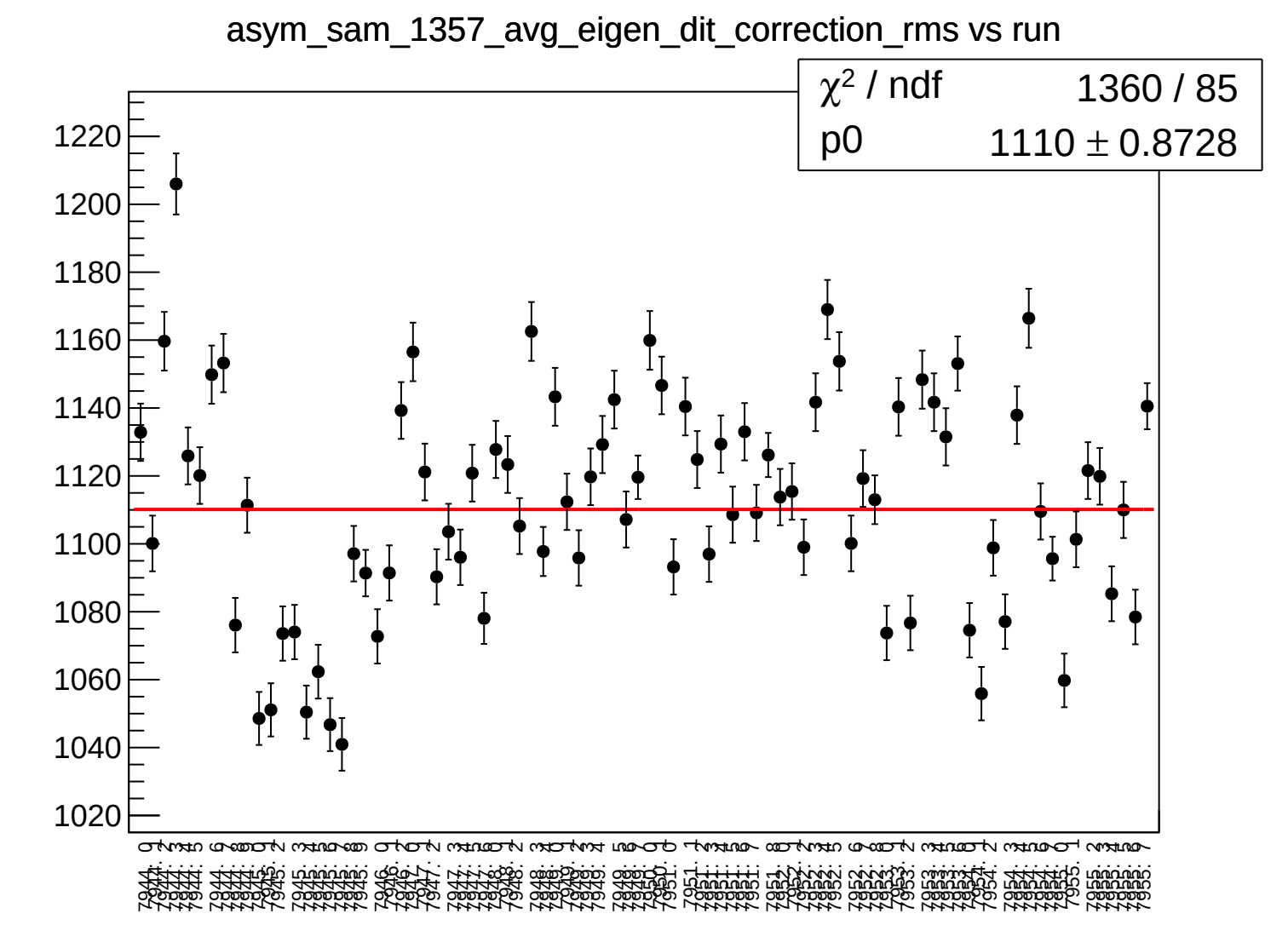

pull1D
Entries 86
Mean 0.001653
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

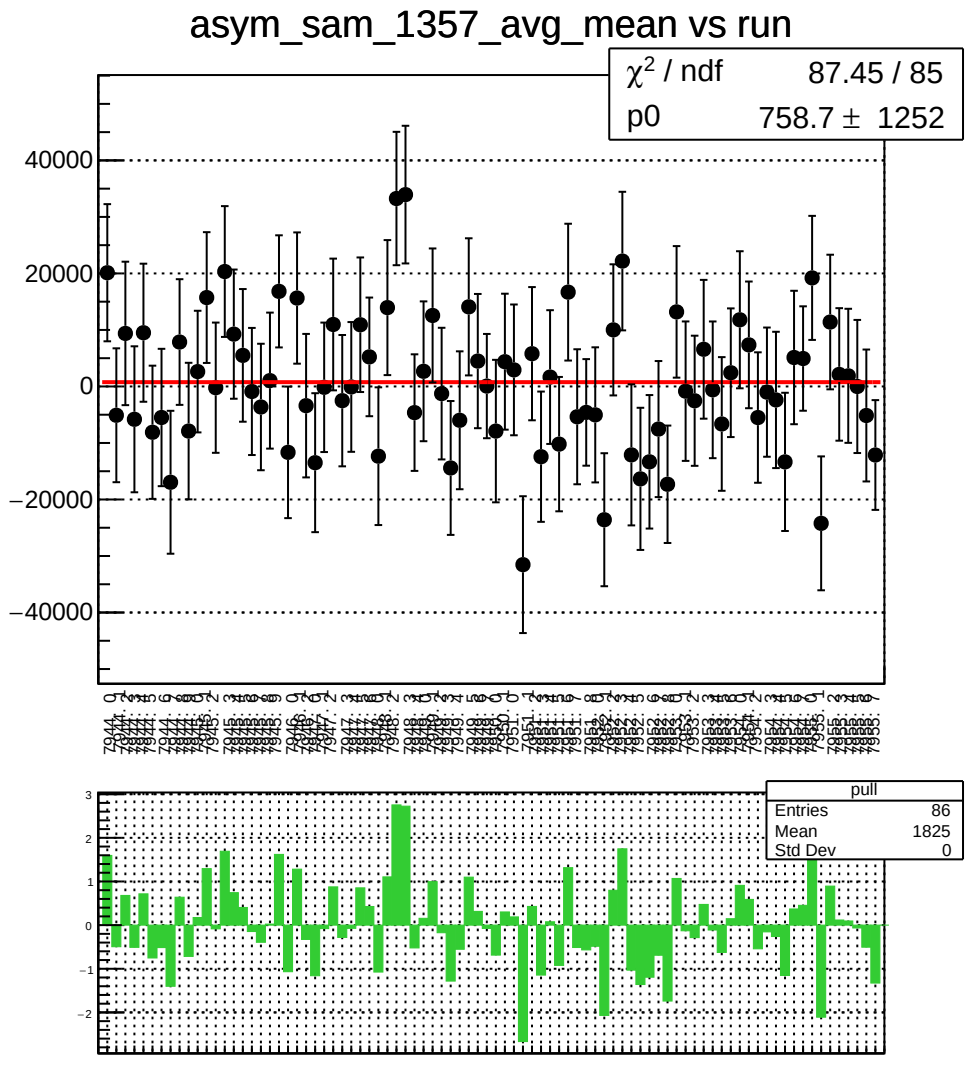

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1360 / 85
p0 1110 ± 0.8728
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

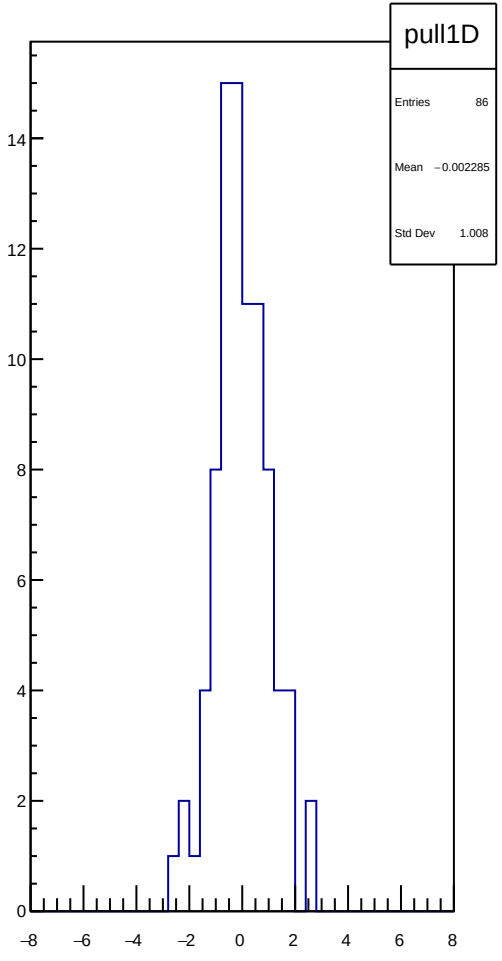

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 81.58 / 85
p0 54.36 ± 167.7
pull
Entries 86
Mean −96.84
Std Dev 0
pull1D
Entries 86
Mean −0.01015
Std Dev 0.9739

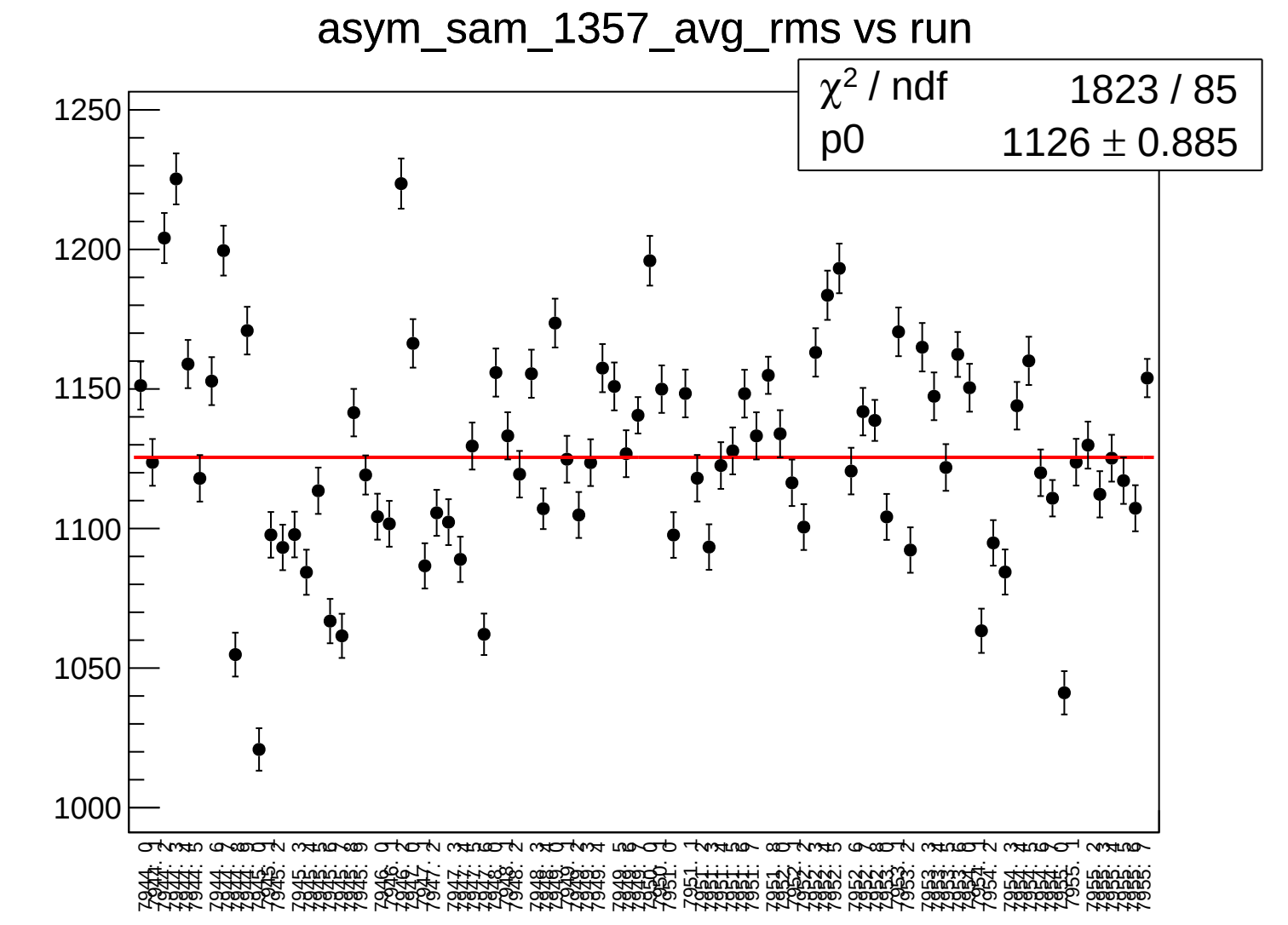

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.793e+04 / 85
p0 149.1 ± 0.1186
350
300
250
200
150
100

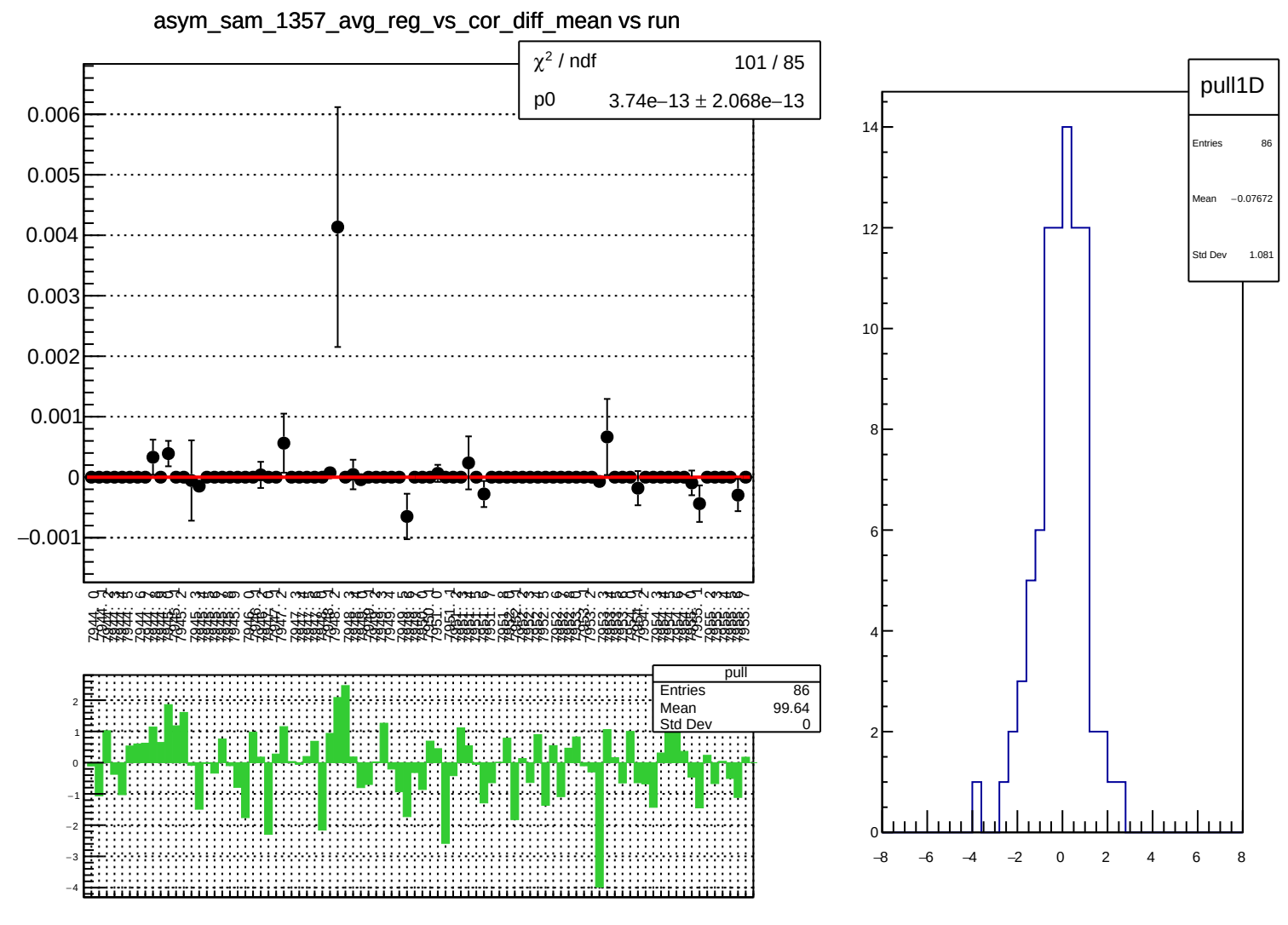

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.62 / 85
p0 −751 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 2769
Std Dev 0
pull1D
Entries 86
Mean 0.001653
Std Dev 1.015

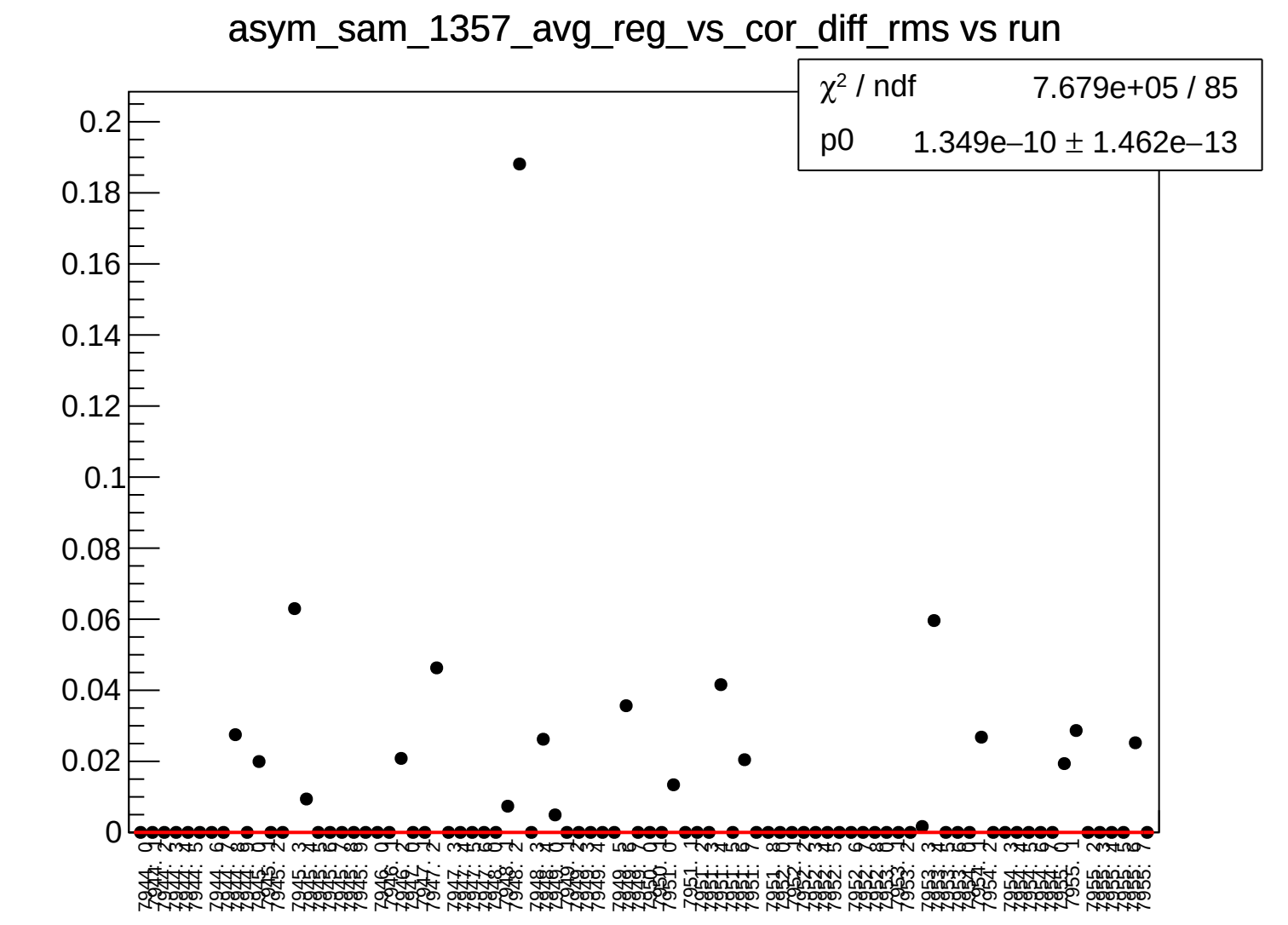

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1360 / 85
p0 1110 ± 0.8728
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

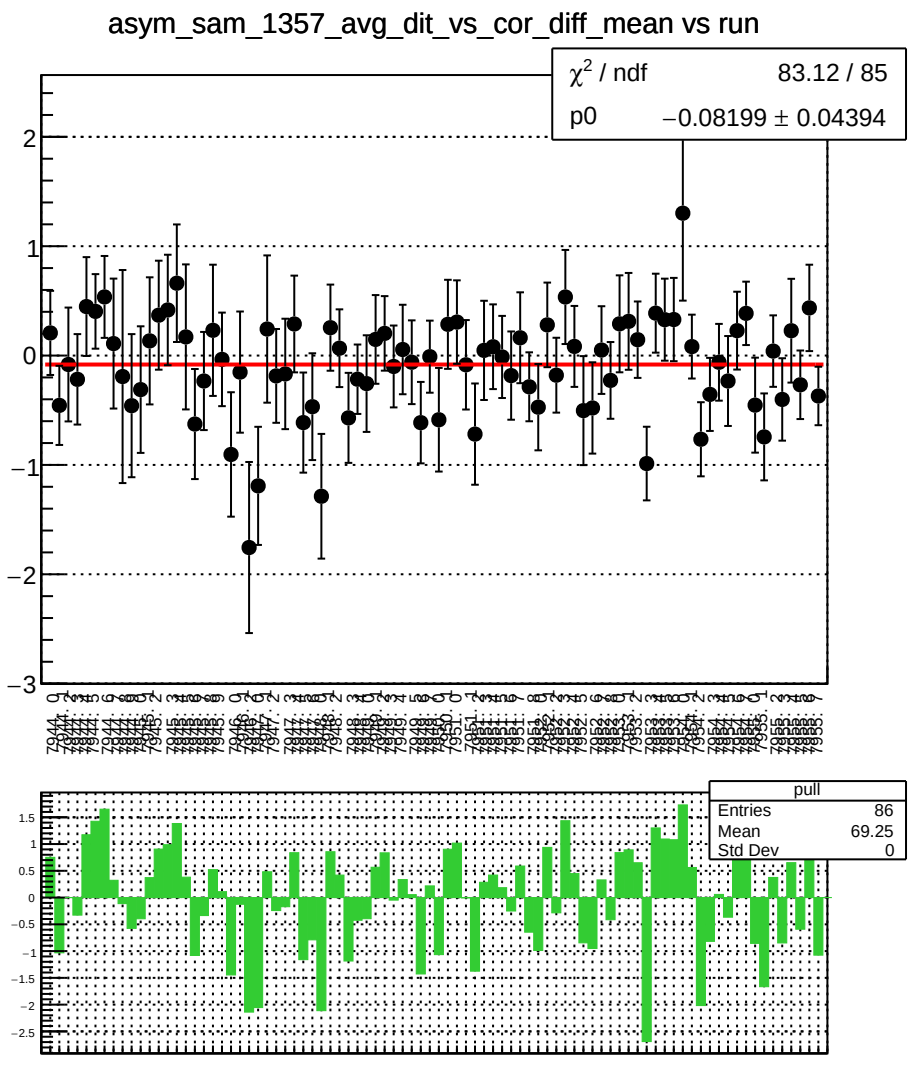

asym_sam_1357_avg_mean vs run
χ² / ndf 87.45 / 85
p0 758.7 ± 1252
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 1825
Std Dev 0
3
2
1
0
−1
−2

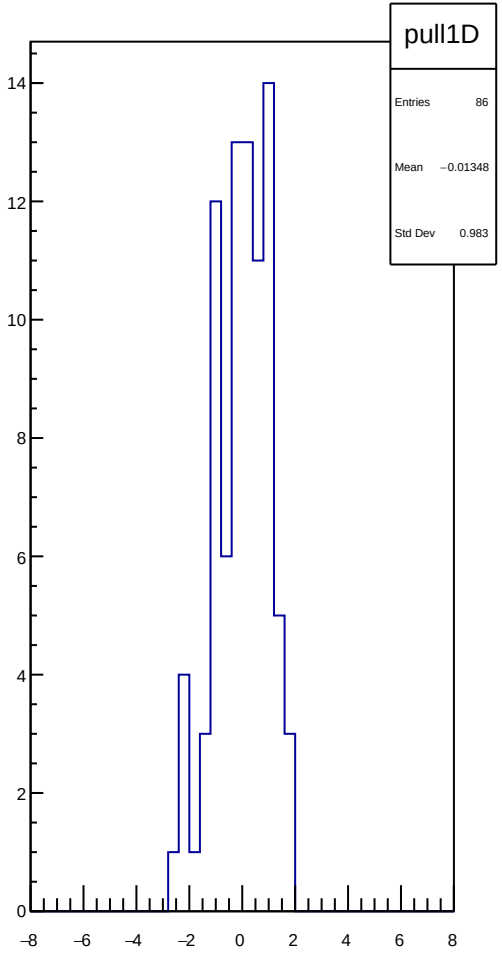

pull1D
Entries 86
Mean −0.002285
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

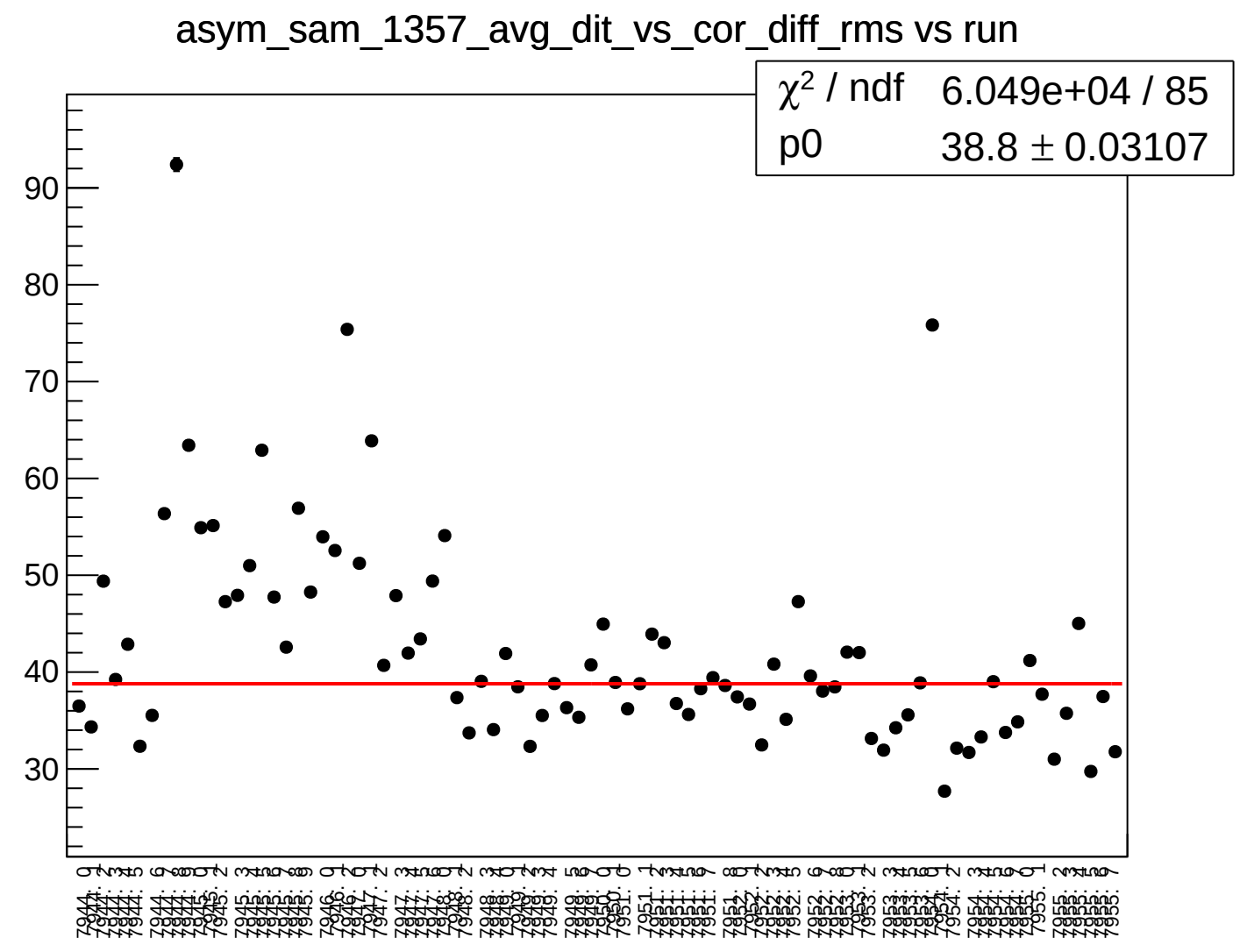

asym_sam_1357_avg_rms vs run
χ² / ndf 1823 / 85
p0 1126 ± 0.885
1250
1200
1150
1100
1050
1000

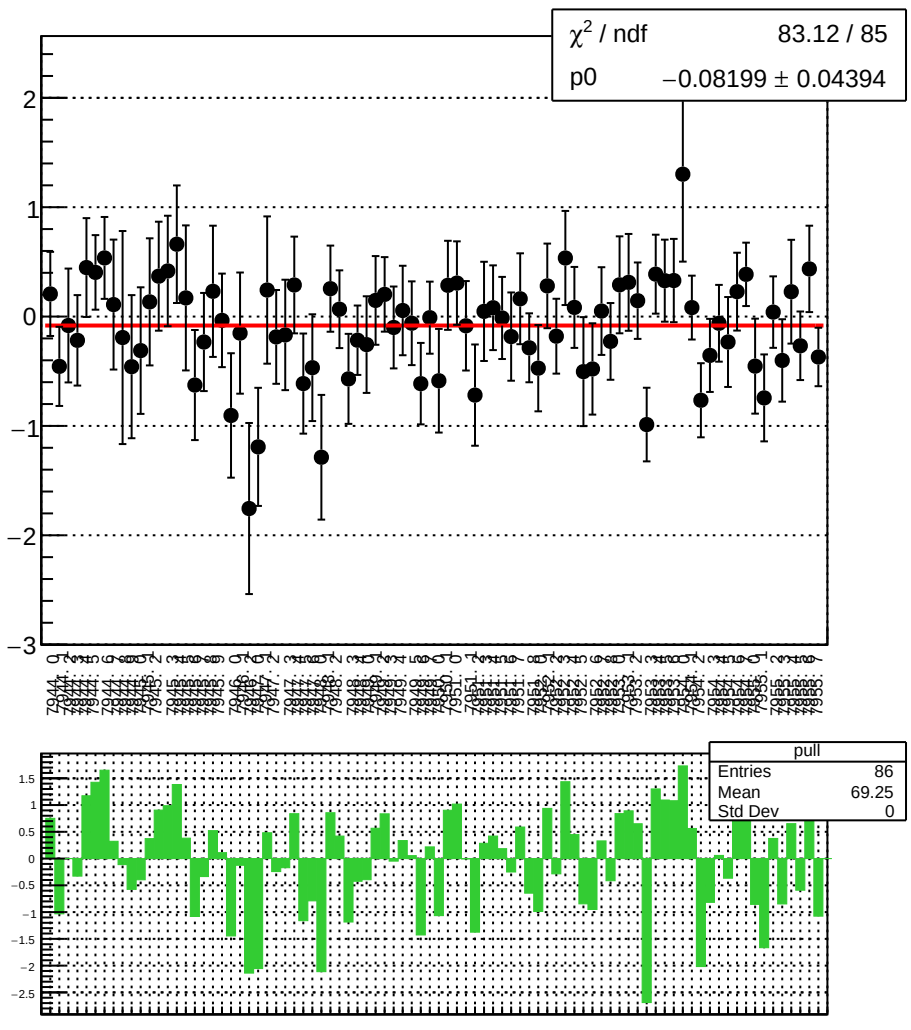

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101 / 85
p0 3.74e−13 ± 2.068e−13
0.006
0.005
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 86
Mean 99.64
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean −0.07672
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

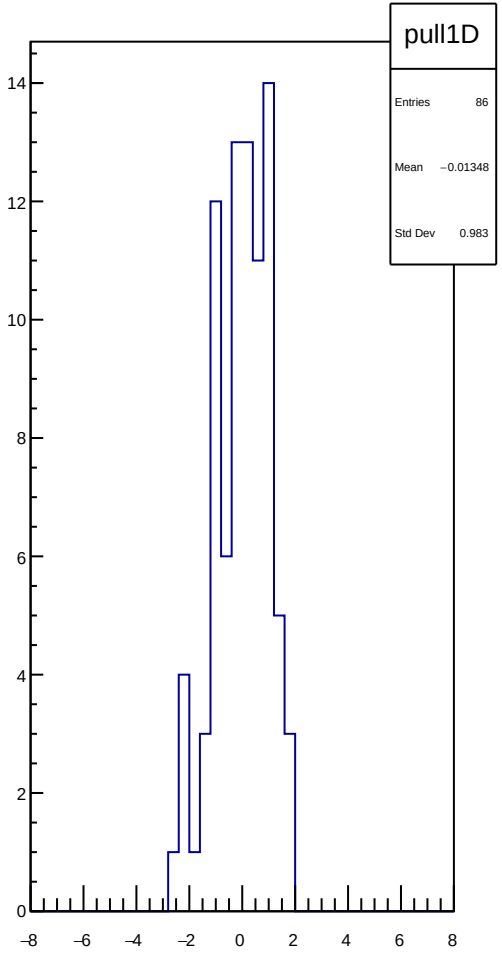

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.679e+05 / 85
p0 1.349e−10 ± 1.462e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

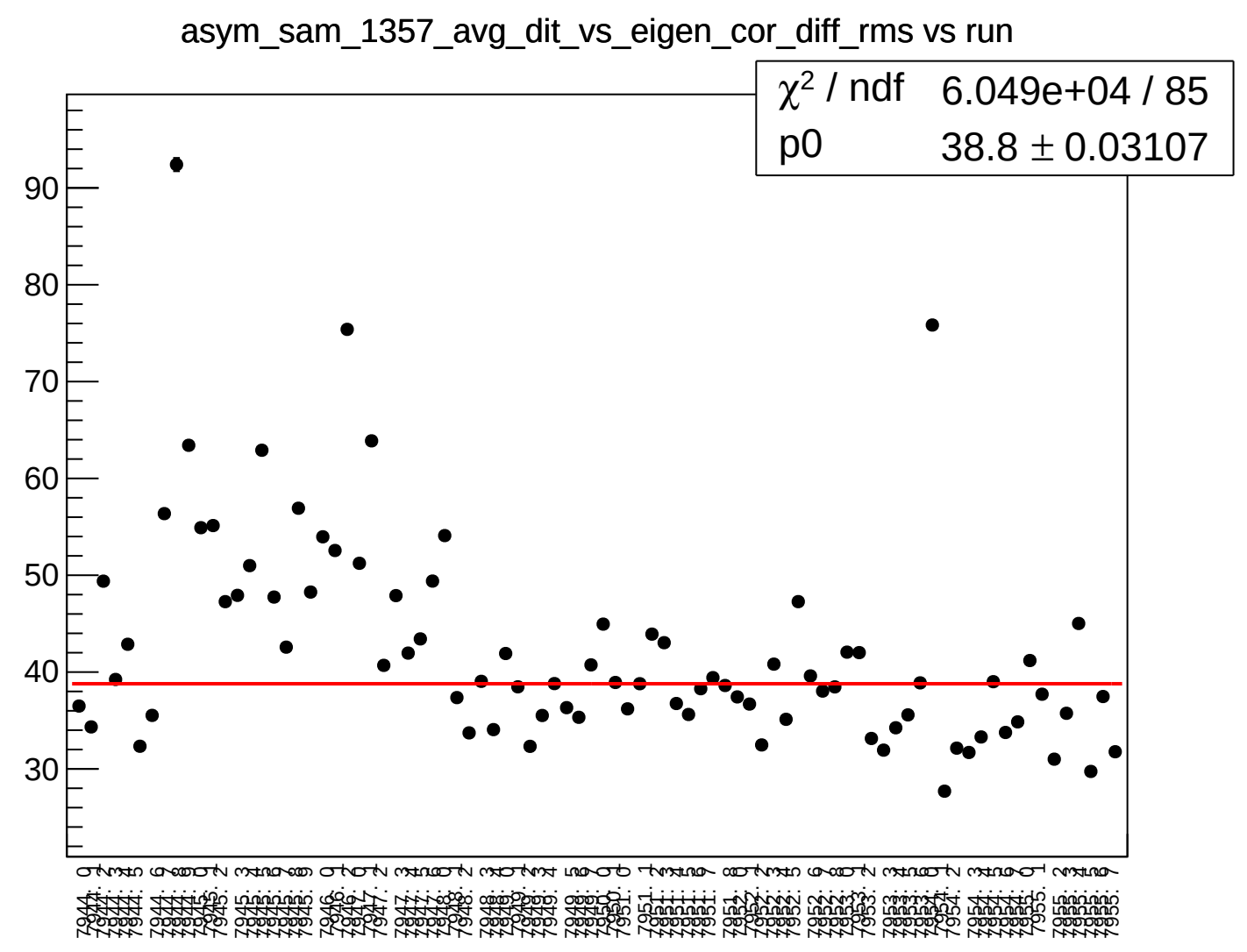

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.12 / 85
p0 −0.08199 ± 0.04394
pull
Entries 86
Mean 69.25
Std Dev 0

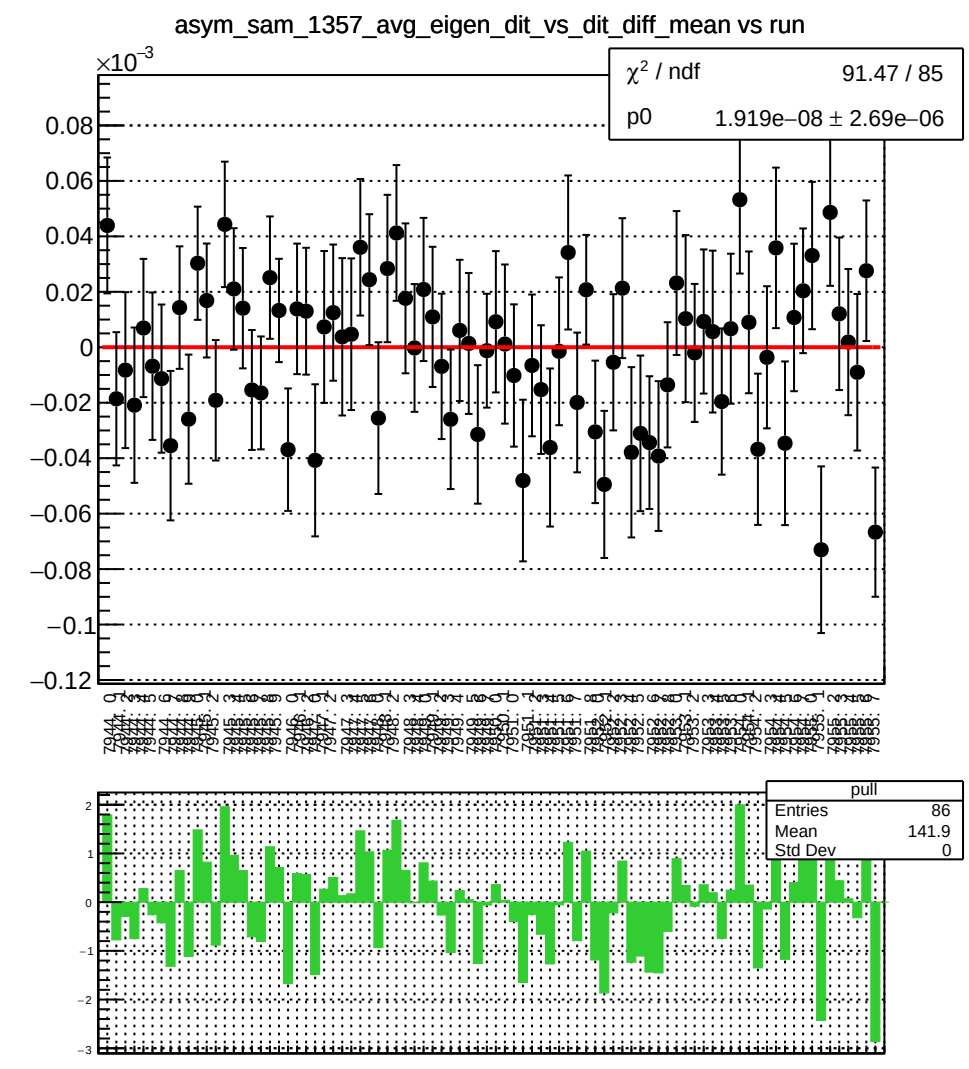

pull1D
Entries 86
Mean −0.01348
Std Dev 0.983

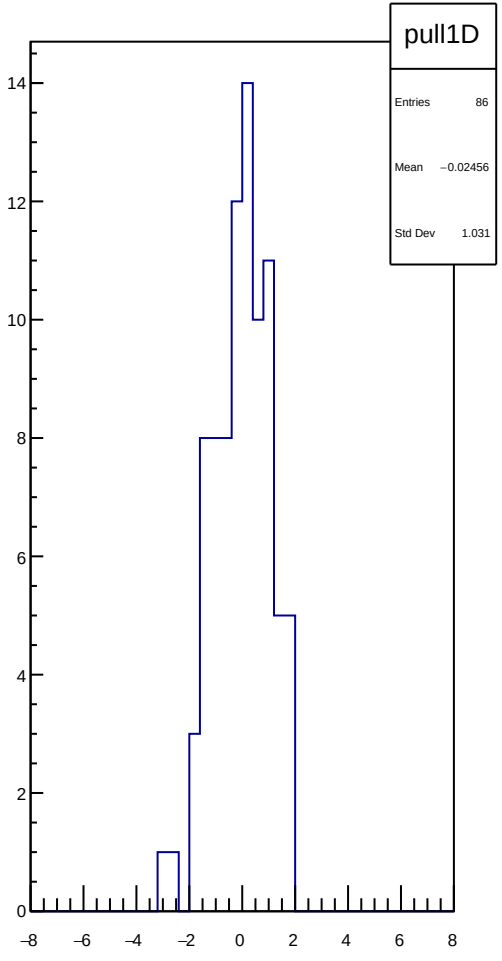

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.049e+04 / 85
p0 38.8 ± 0.03107
90
80
70
60
50
40
30

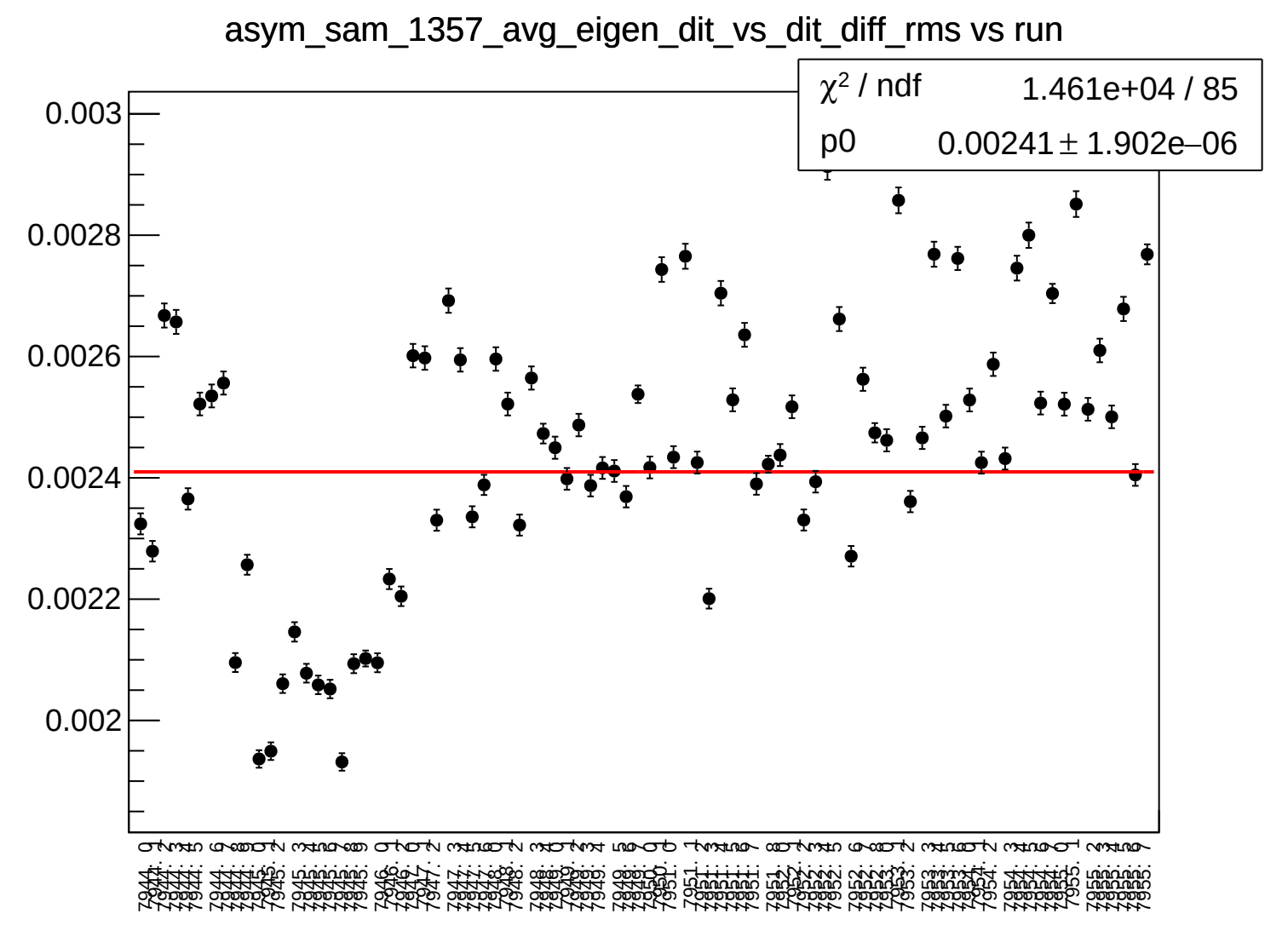

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.12 / 85
p0 −0.08199 ± 0.04394
pull
Entries 86
Mean 69.25
Std Dev 0

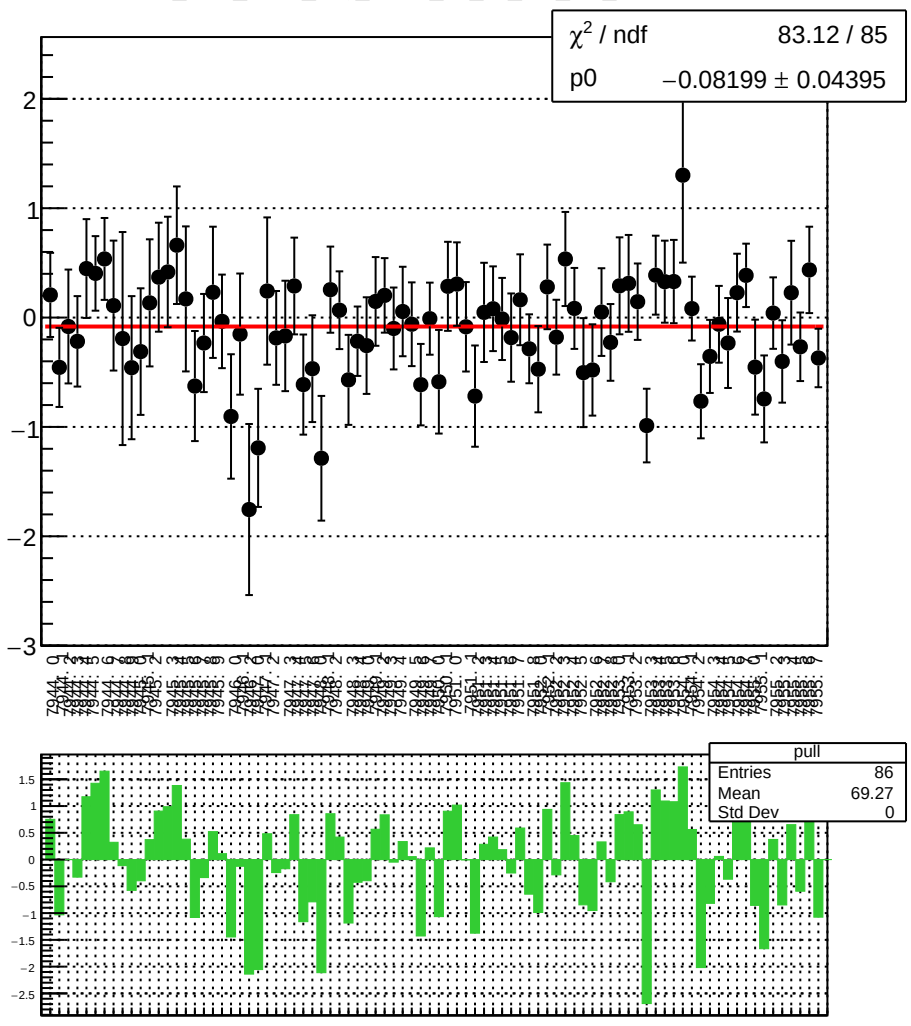

pull1D
Entries 86
Mean −0.01348
Std Dev 0.983

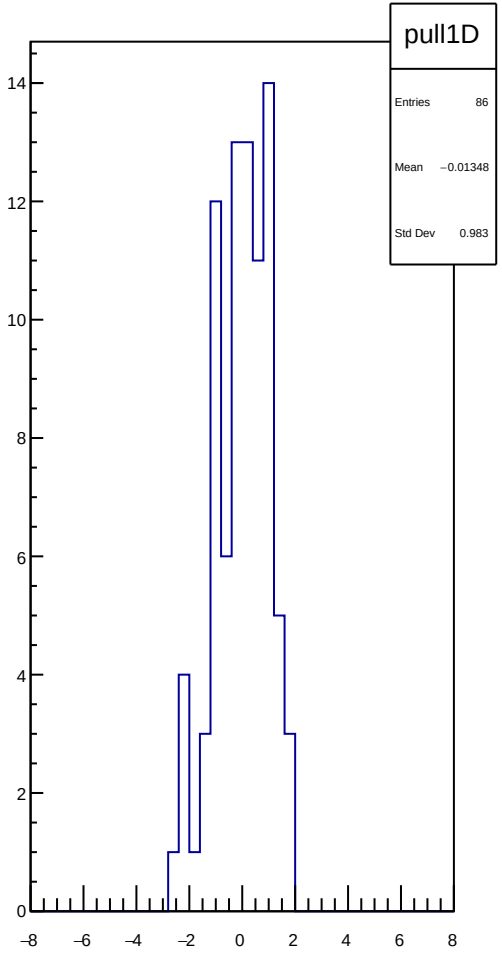

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.049e+04 / 85
p0 38.8 ± 0.03107
90
80
70
60
50
40
30

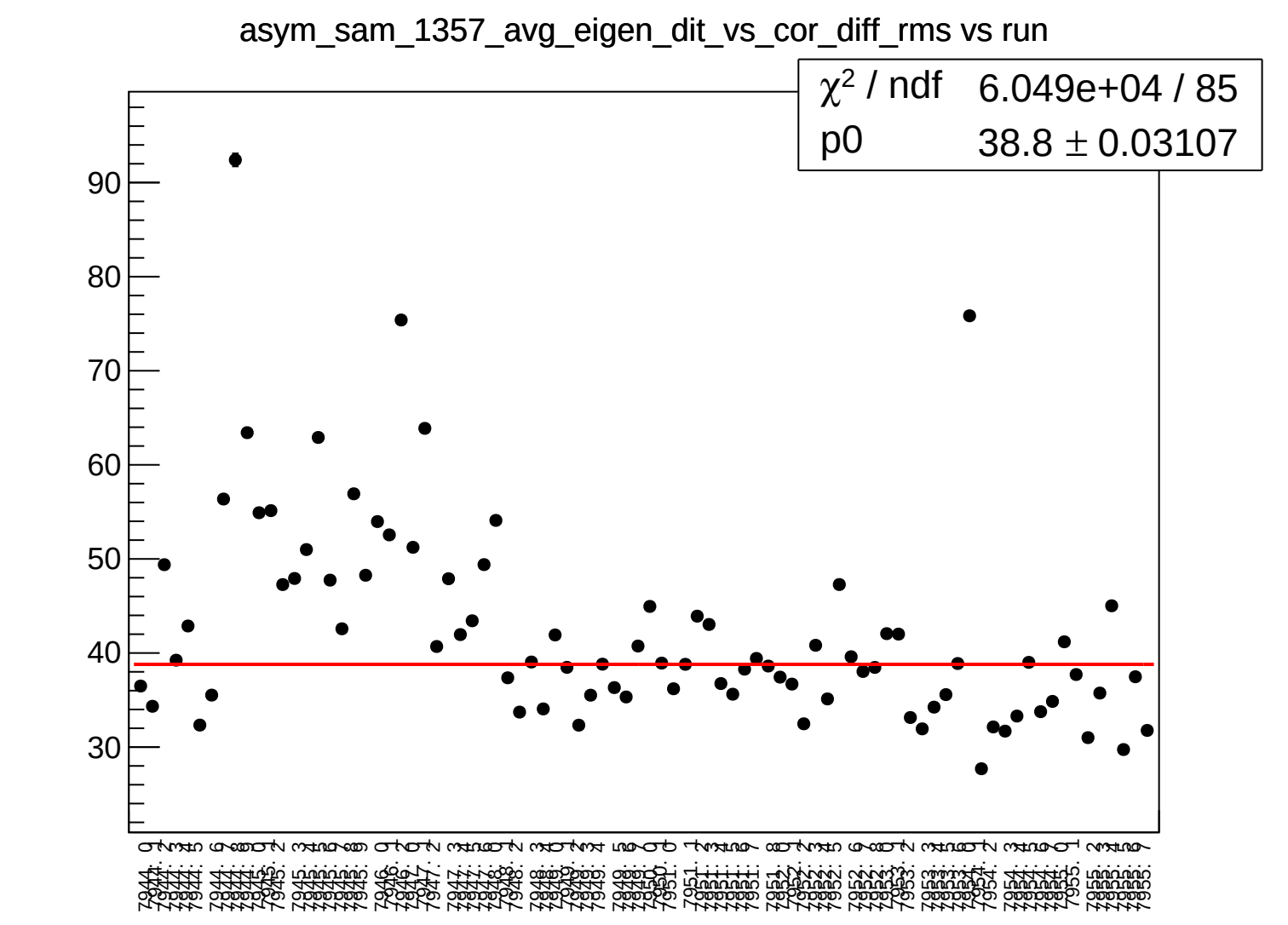

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.47 / 85
p0 1.919e−08 ± 2.69e−06
pull
Entries 86
Mean 141.9
Std Dev 0

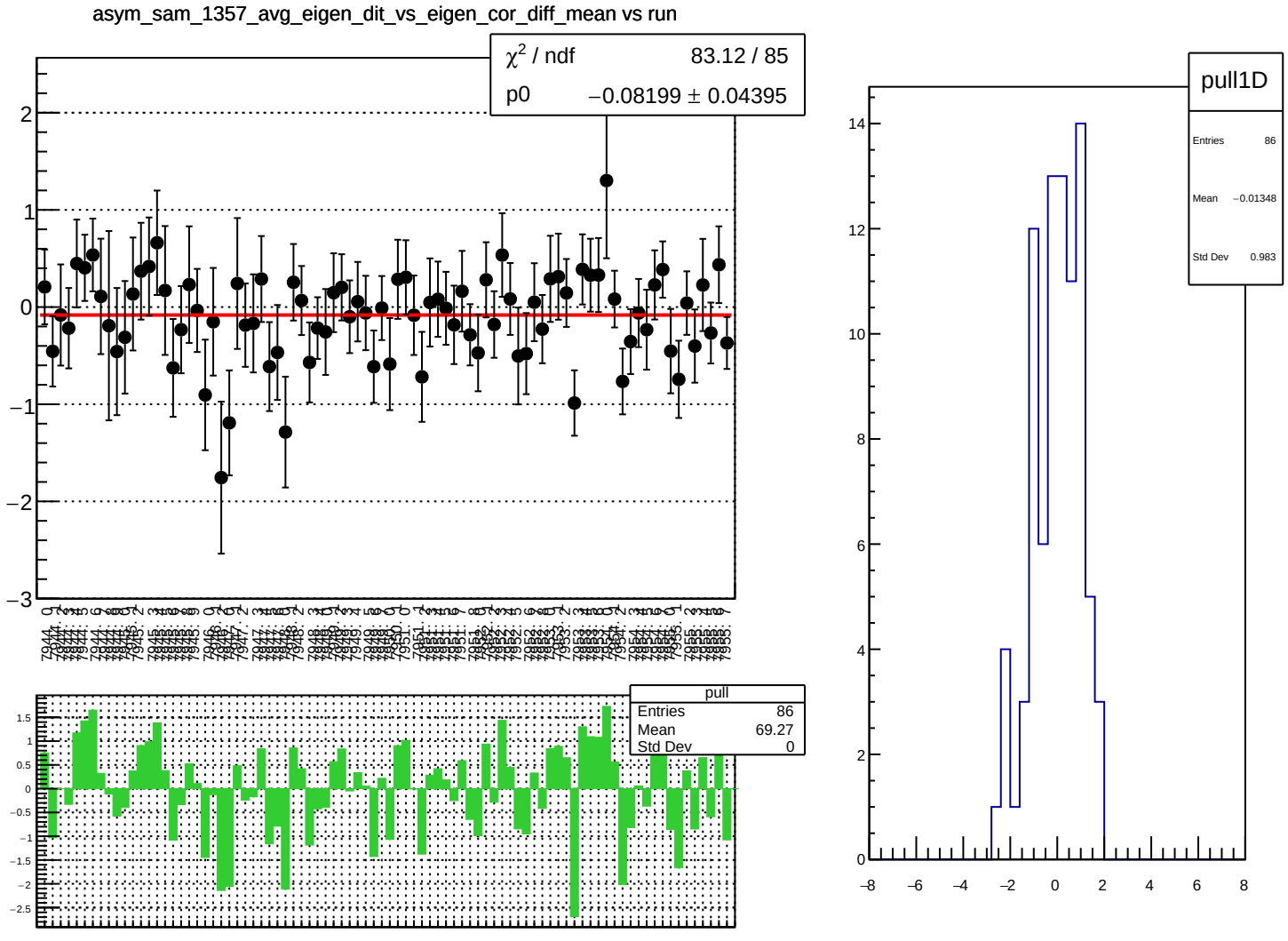

pull1D
Entries 86
Mean −0.02456
Std Dev 1.031

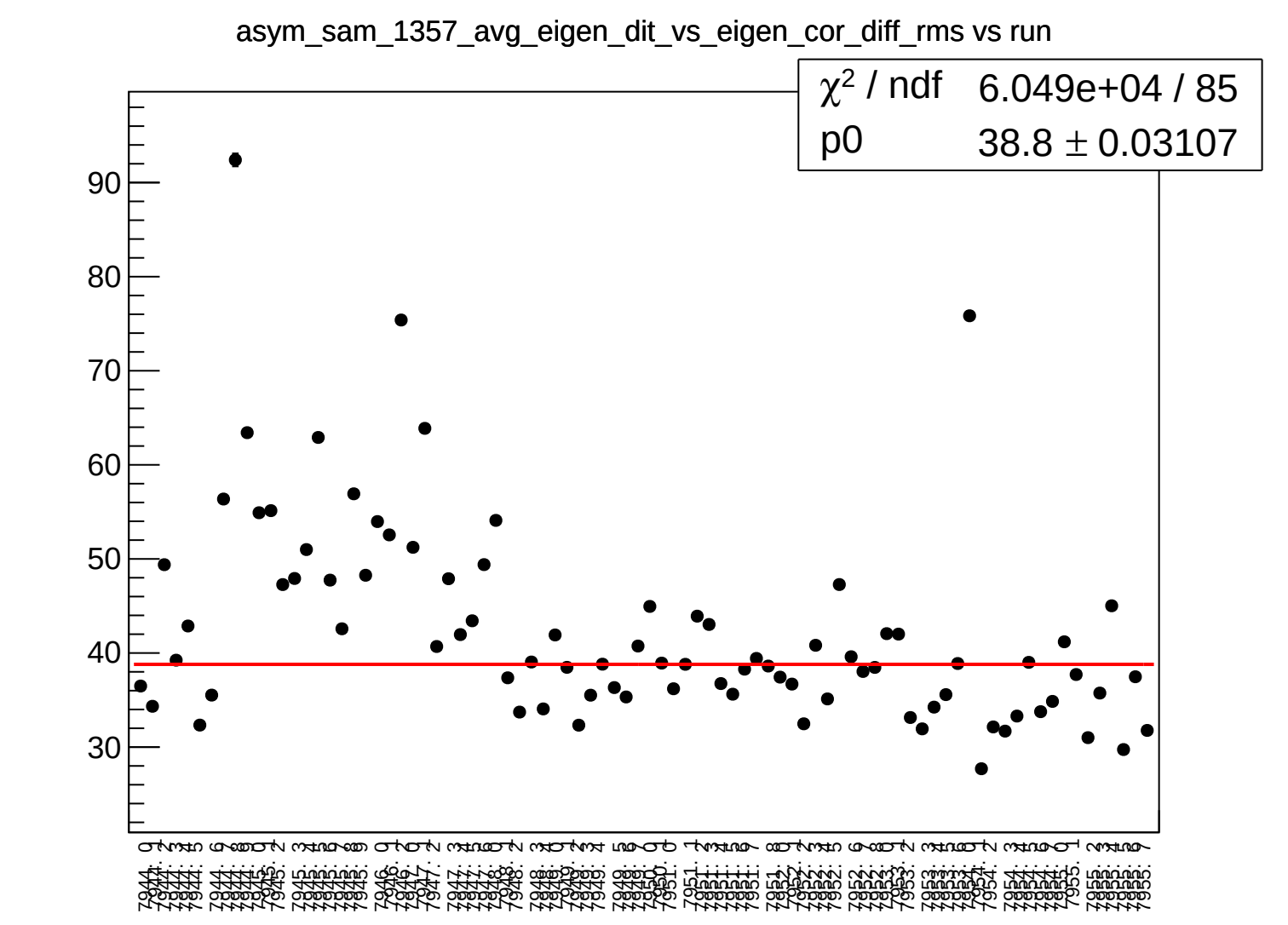

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.461e+04 / 85
p0 0.00241 ± 1.902e–06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

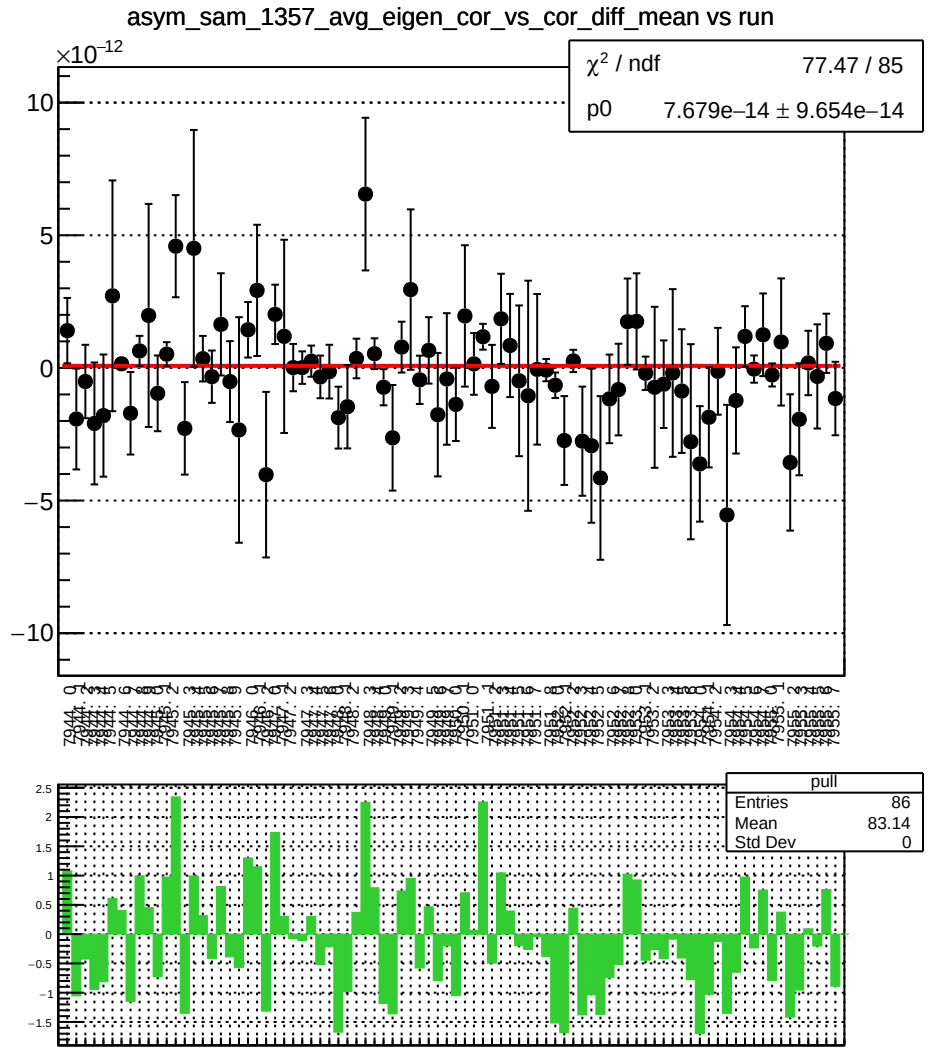

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.12 / 85
p0 −0.08199 ± 0.04395
pull
Entries 86
Mean 69.27
Std Dev 0

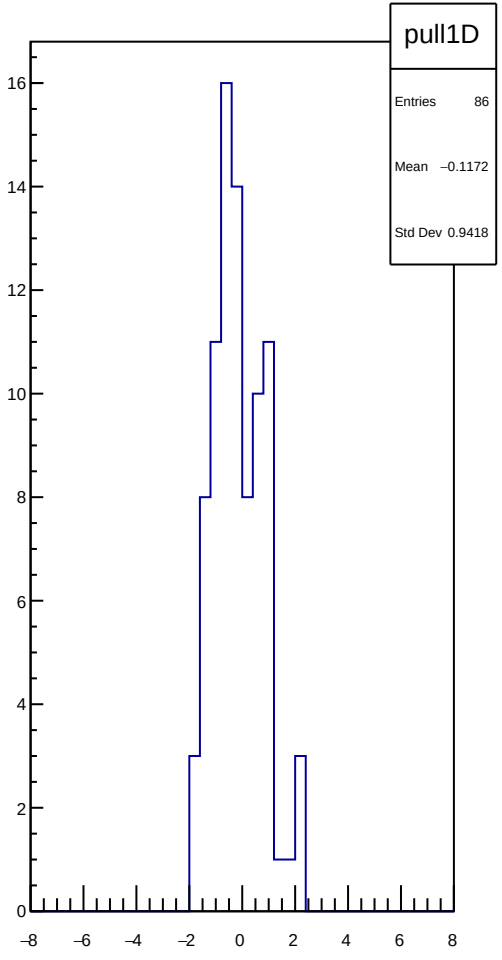

pull1D
Entries 86
Mean −0.01348
Std Dev 0.983

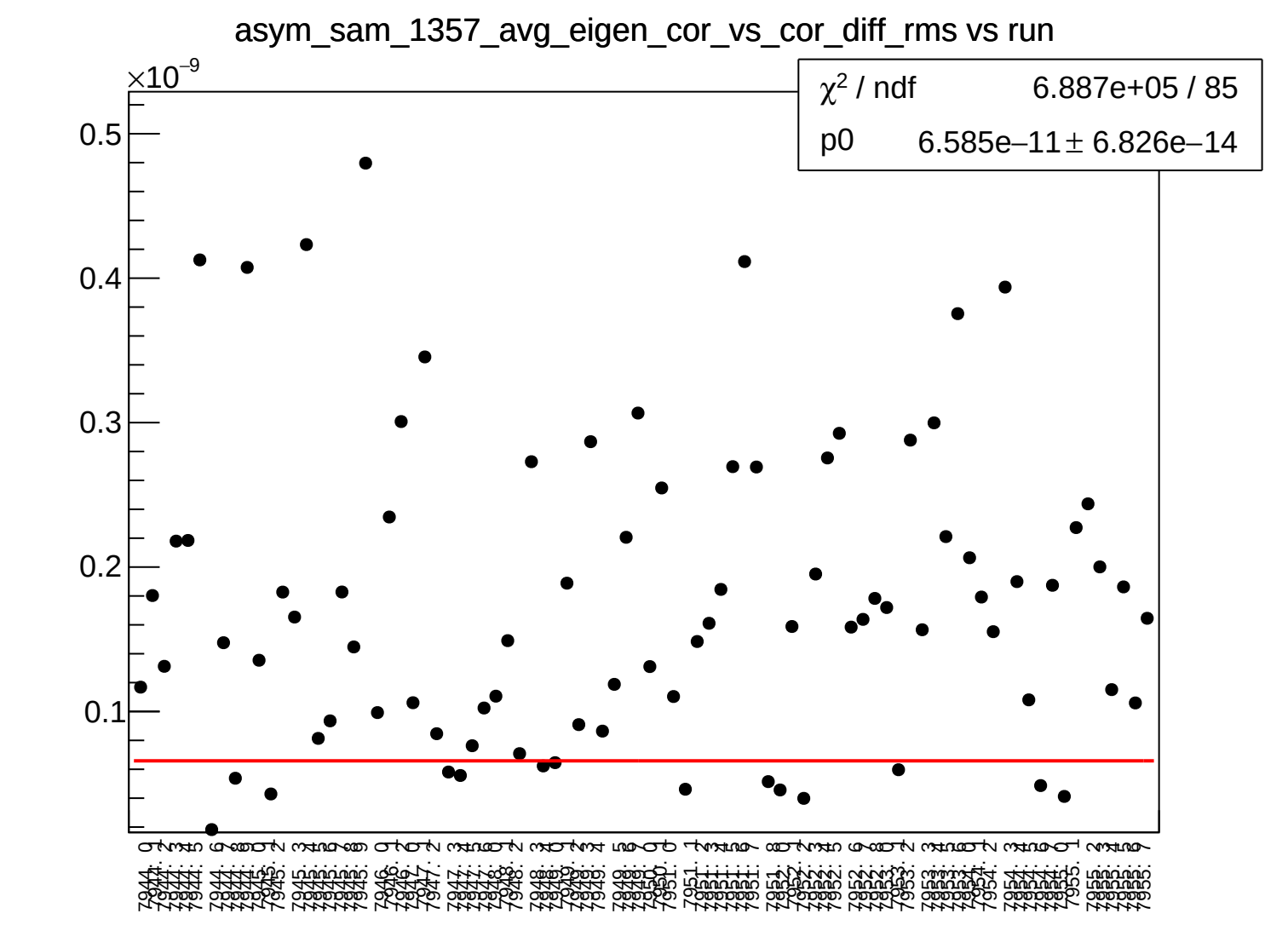

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.049e+04 / 85
p0 38.8 ± 0.03107
90
80
70
60
50
40
30

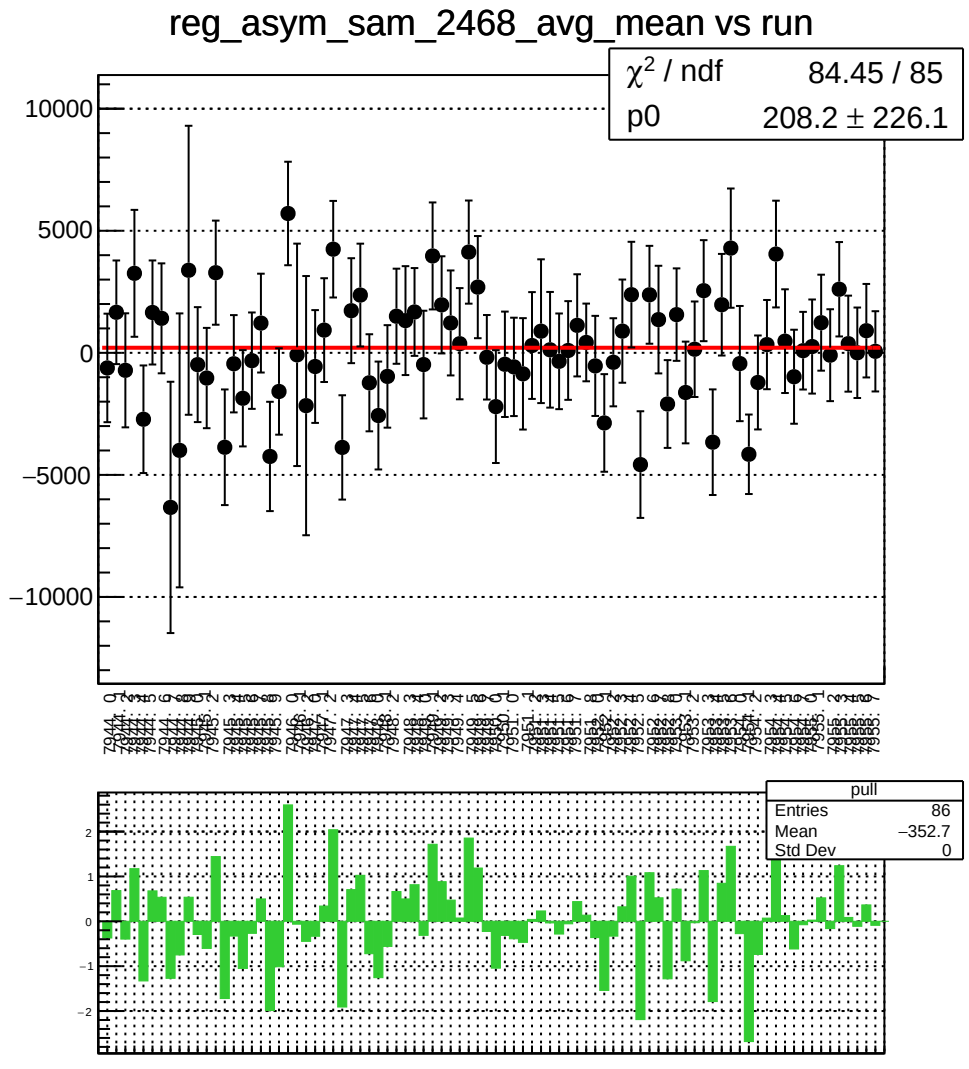

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.12 / 85
p0 −0.08199 ± 0.04395
pull
Entries 86
Mean 69.27
Std Dev 0
pull1D
Entries 86
Mean −0.01348
Std Dev 0.983

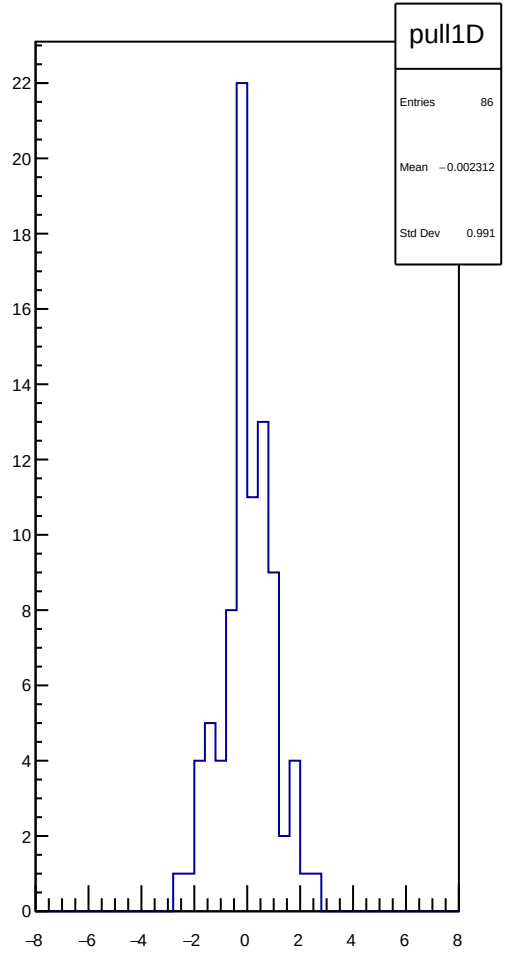

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.049e+04 / 85
p0 38.8 ± 0.03107
90
80
70
60
50
40
30

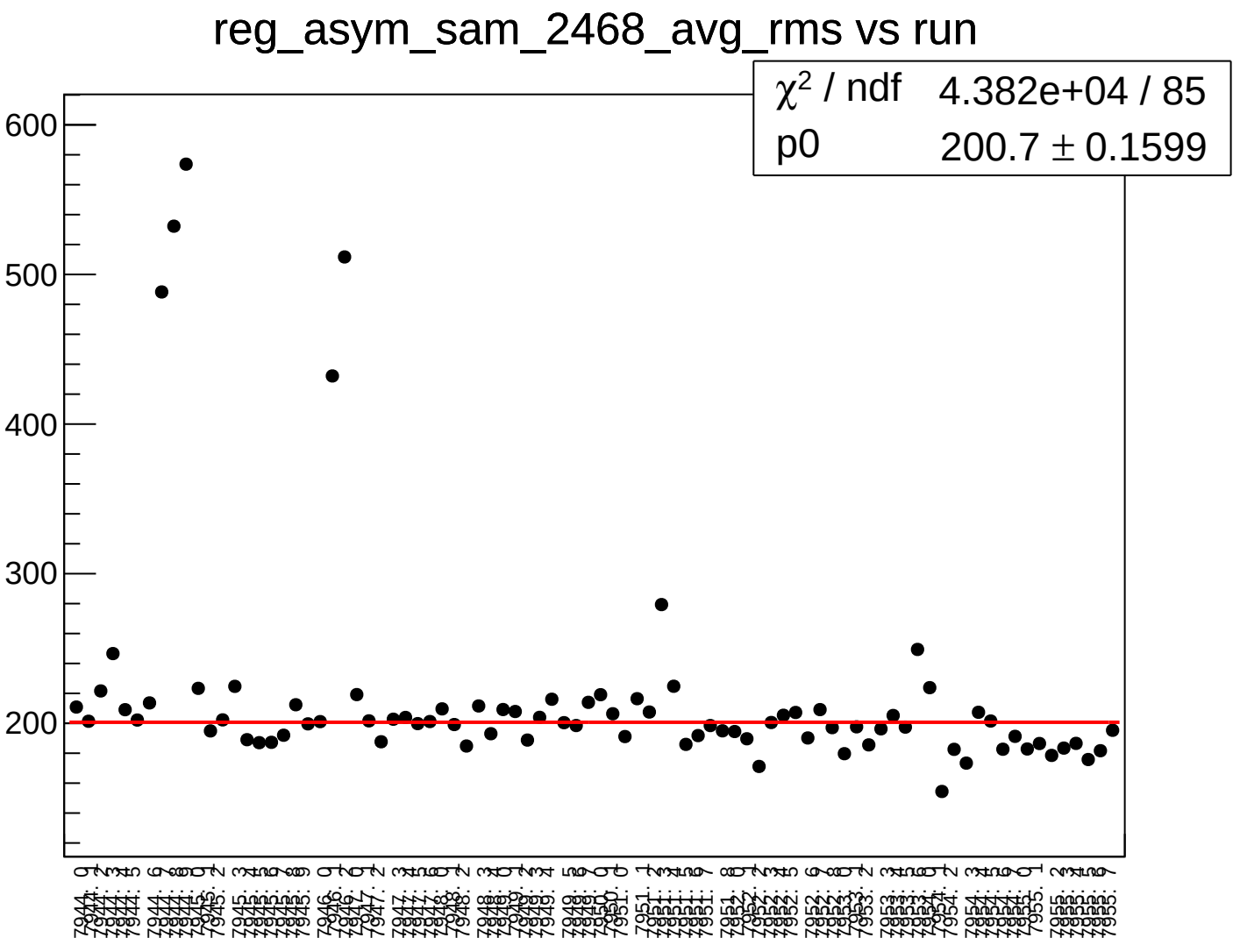

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.47 / 85
p0 7.679e−14 ± 9.654e−14
pull
Entries 86
Mean 83.14
Std Dev 0

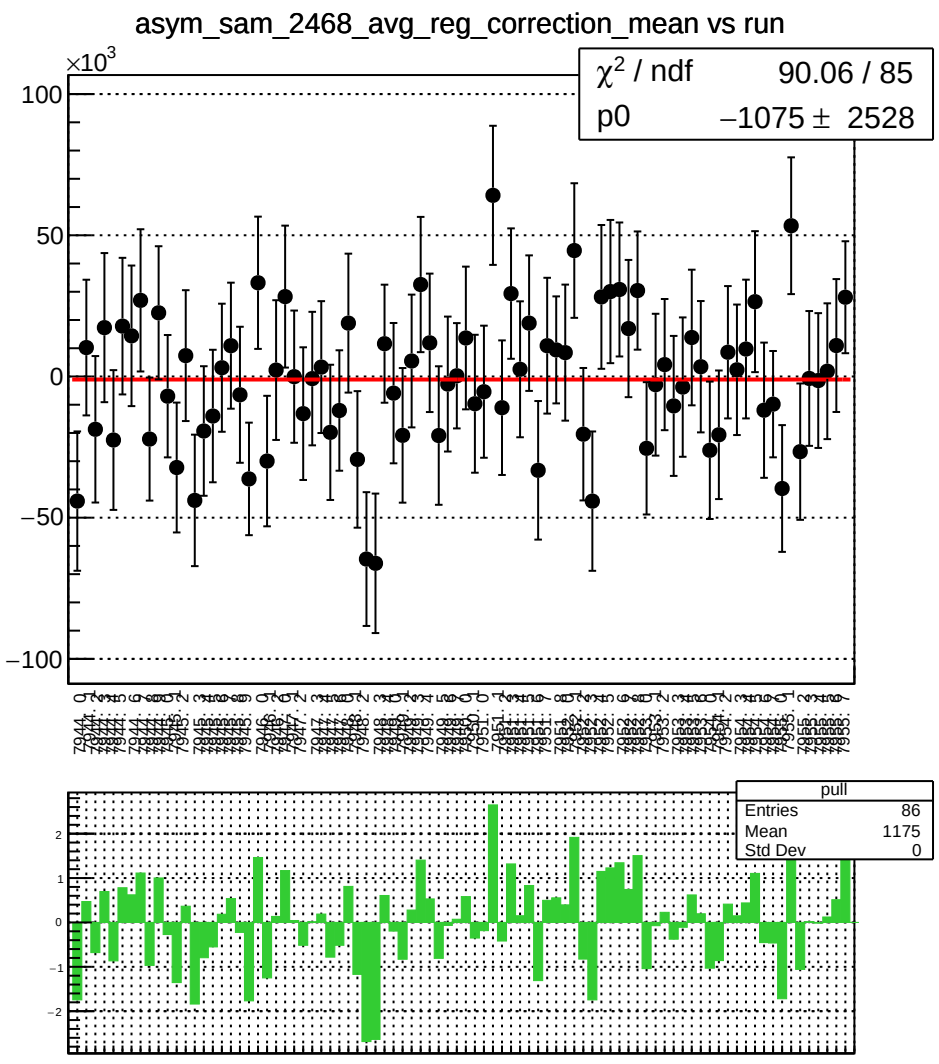

pull1D
Entries 86
Mean −0.1172
Std Dev 0.9418

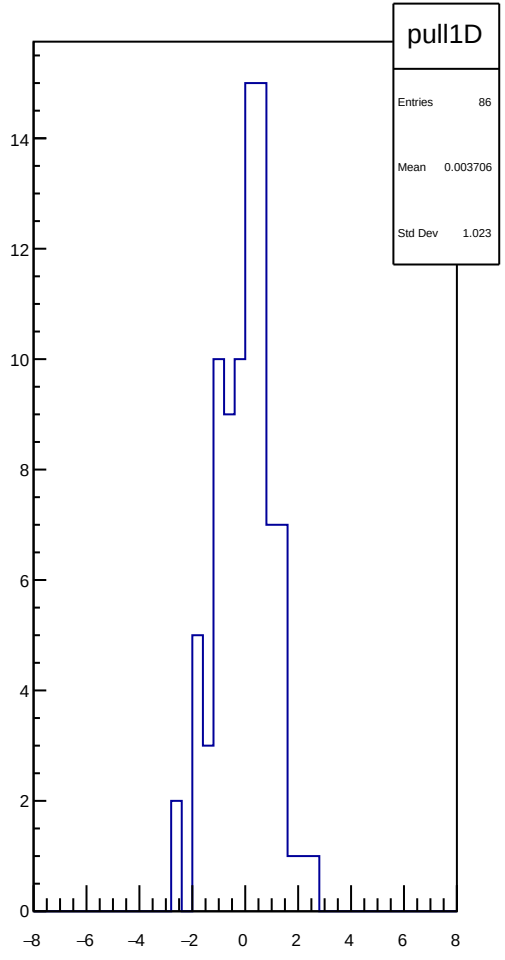

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.887e+05 / 85
p0 6.585e−11 ± 6.826e−14
0.5
0.4
0.3
0.2
0.1

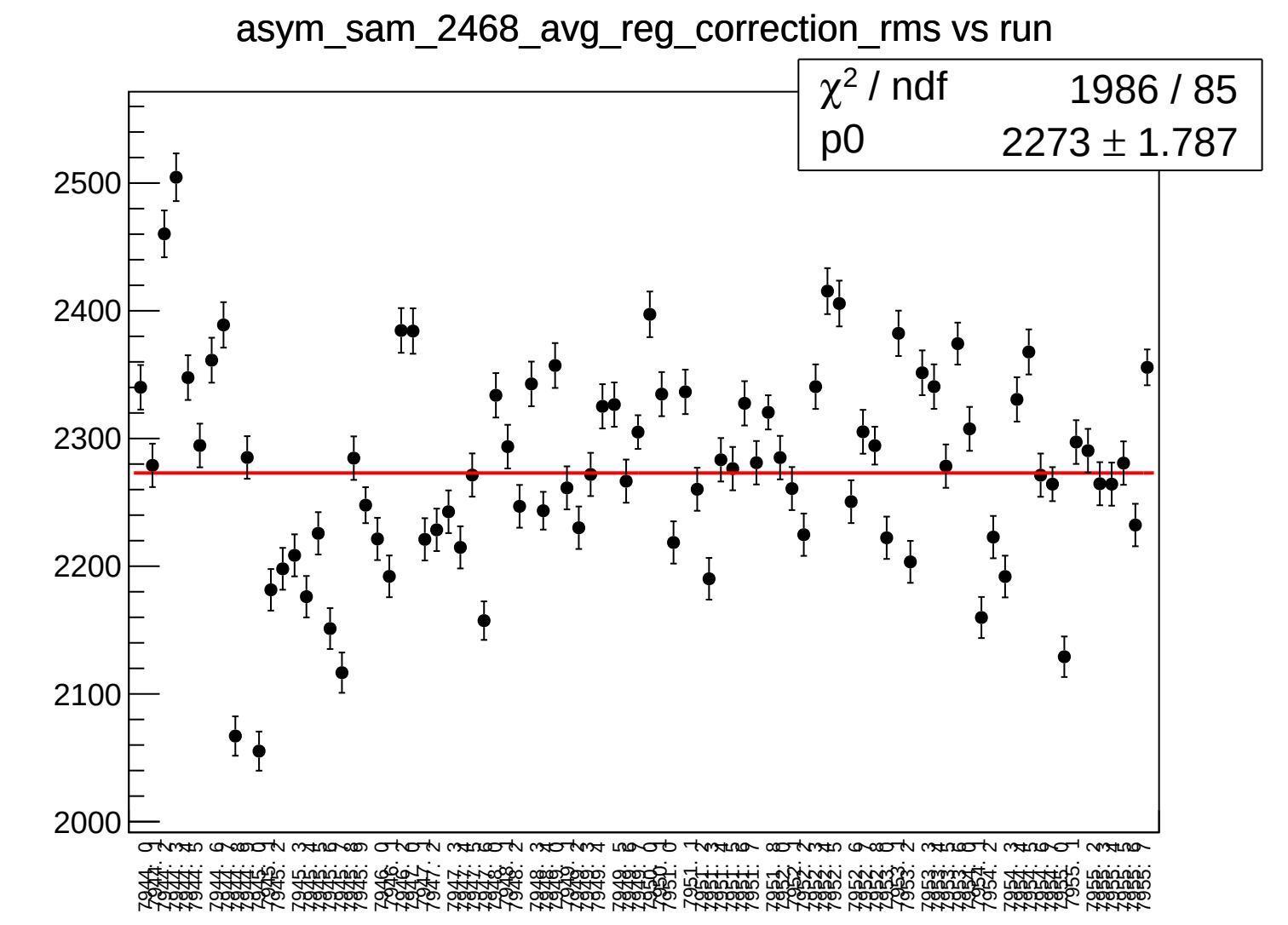

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 84.45 / 85
p0 208.2 ± 226.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −352.7
Std Dev 0
2
1
0
−1
−2

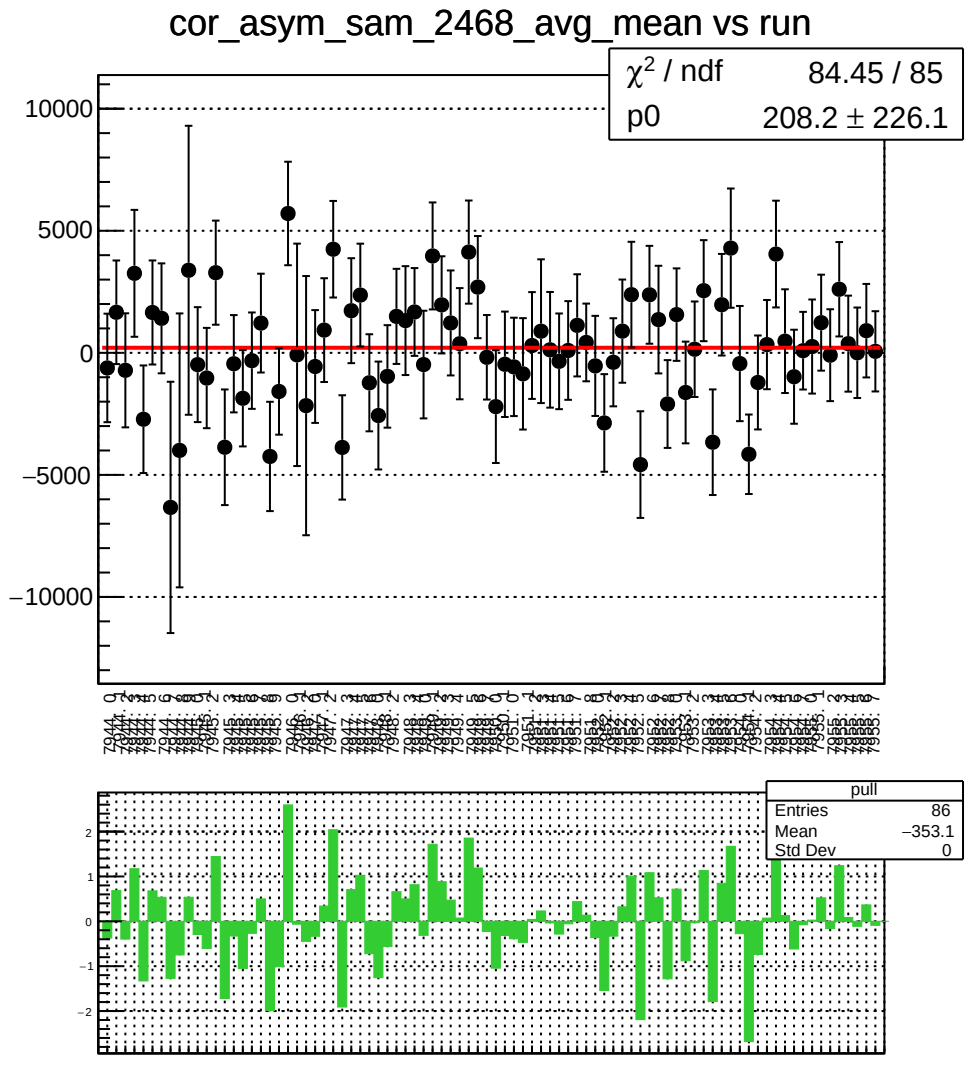

pull1D
Entries 86
Mean −0.002312
Std Dev 0.991
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

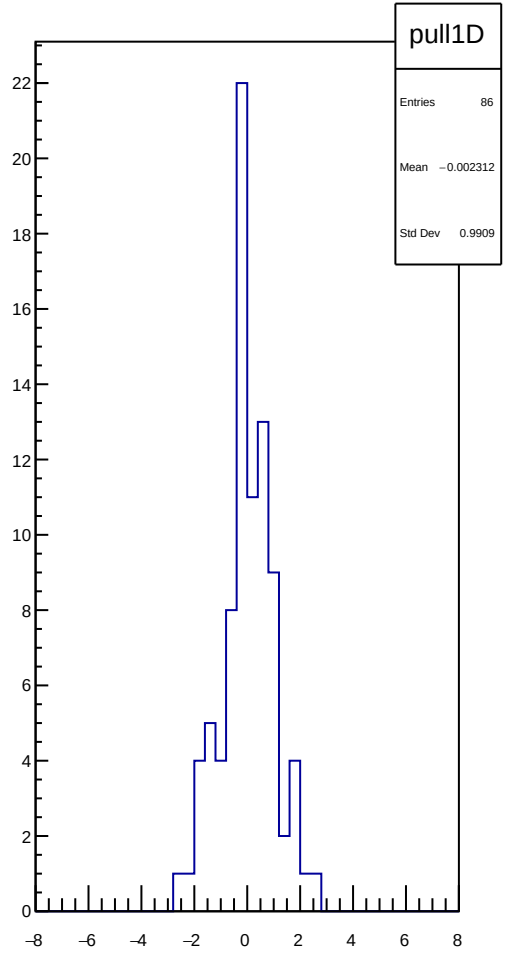

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.382e+04 / 85
p0 200.7 ± 0.1599
600
500
400
300
200

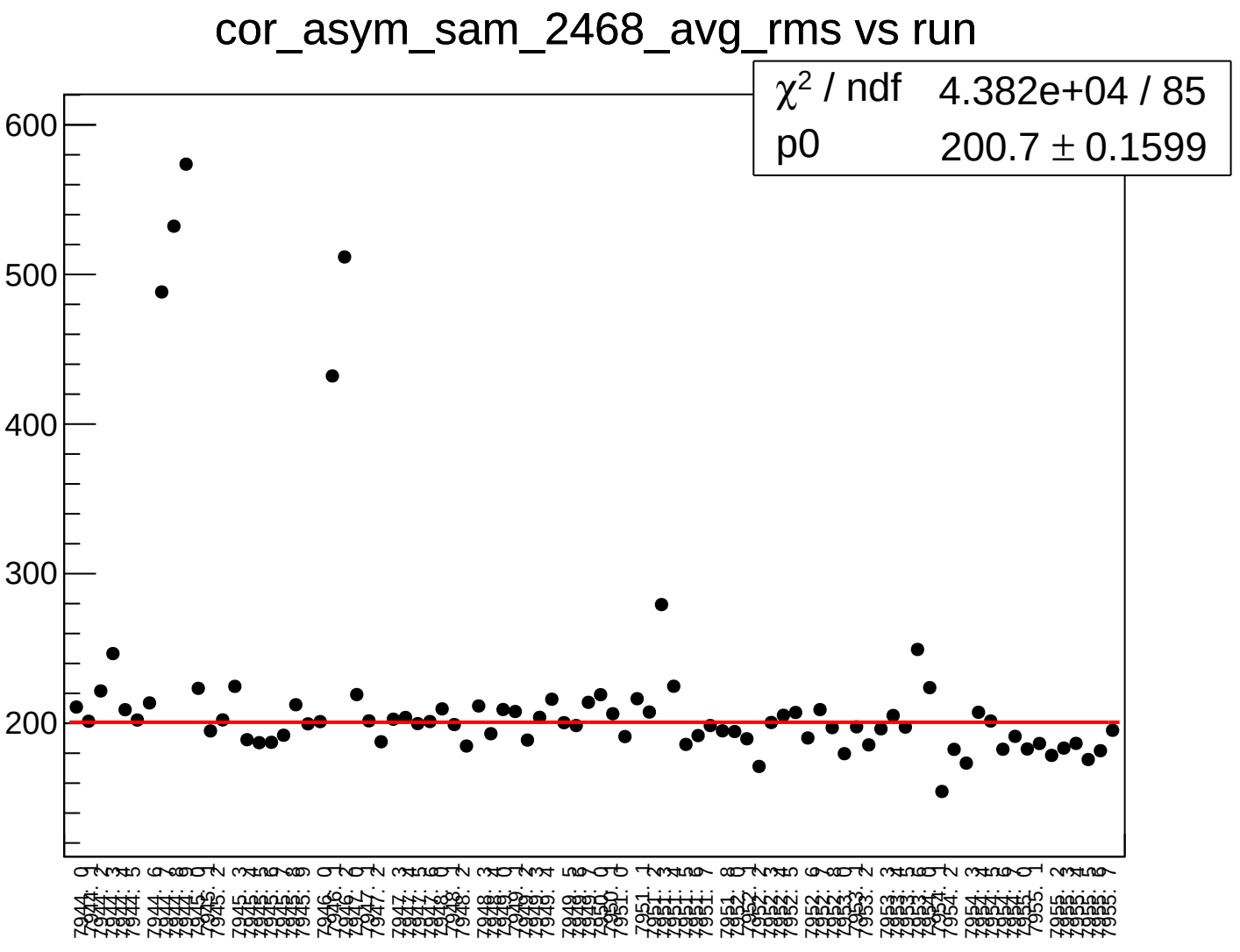

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.06 / 85
p0 −1075 ± 2528
pull
Entries 86
Mean 1175
Std Dev 0

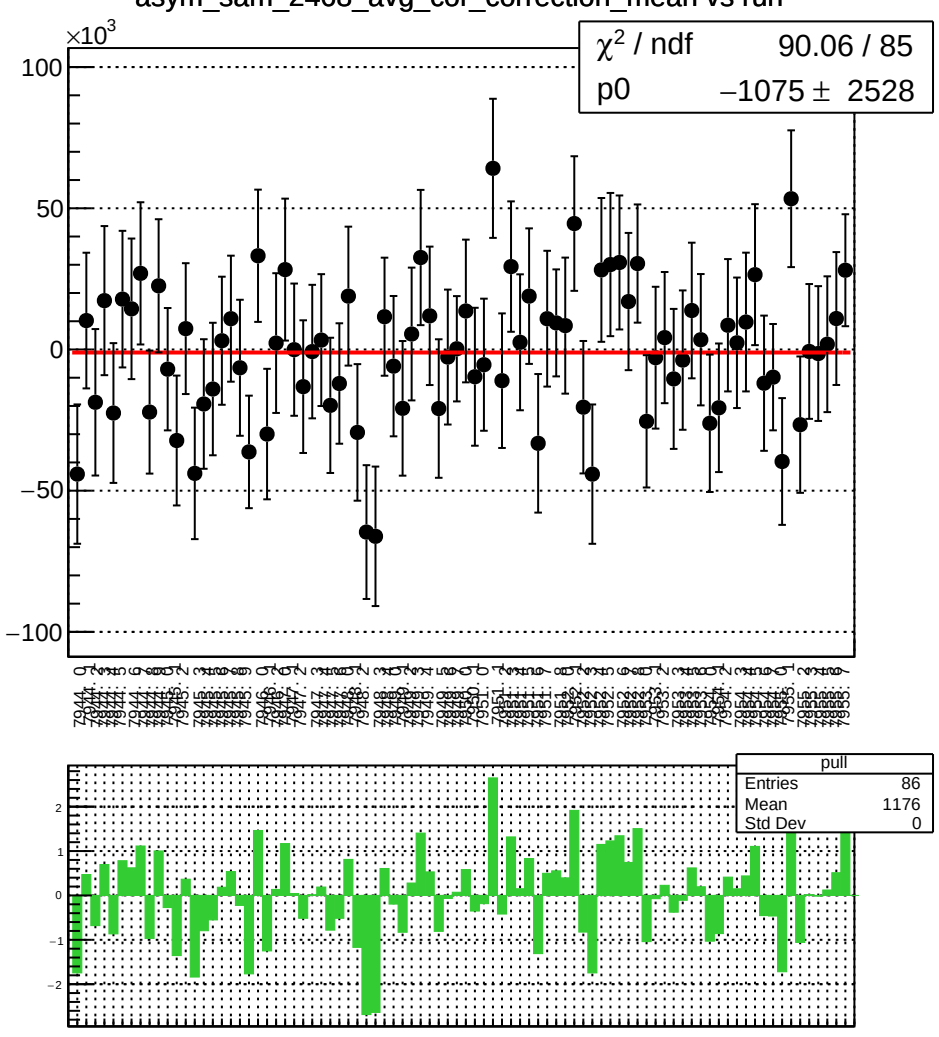

pull1D
Entries 86
Mean 0.003706
Std Dev 1.023

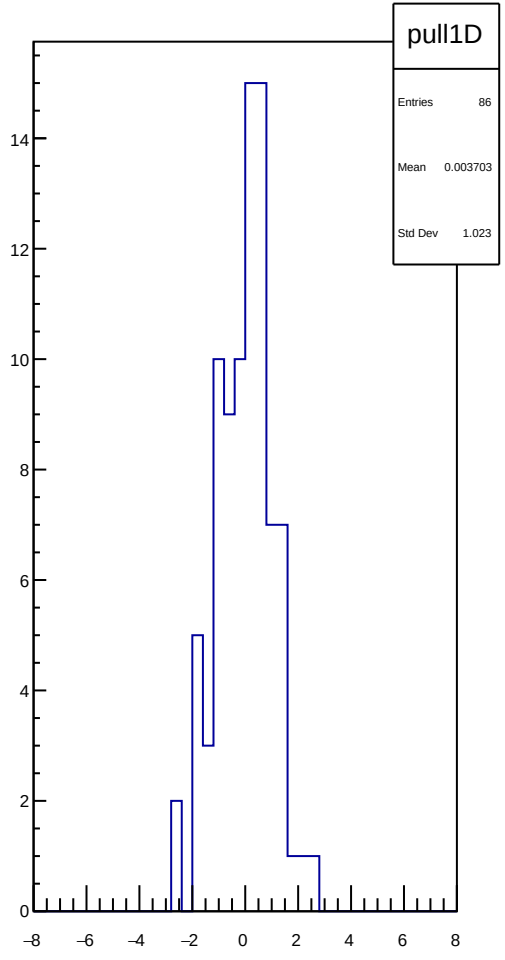

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1986 / 85
p0 2273 ± 1.787
2500
2400
2300
2200
2100
2000

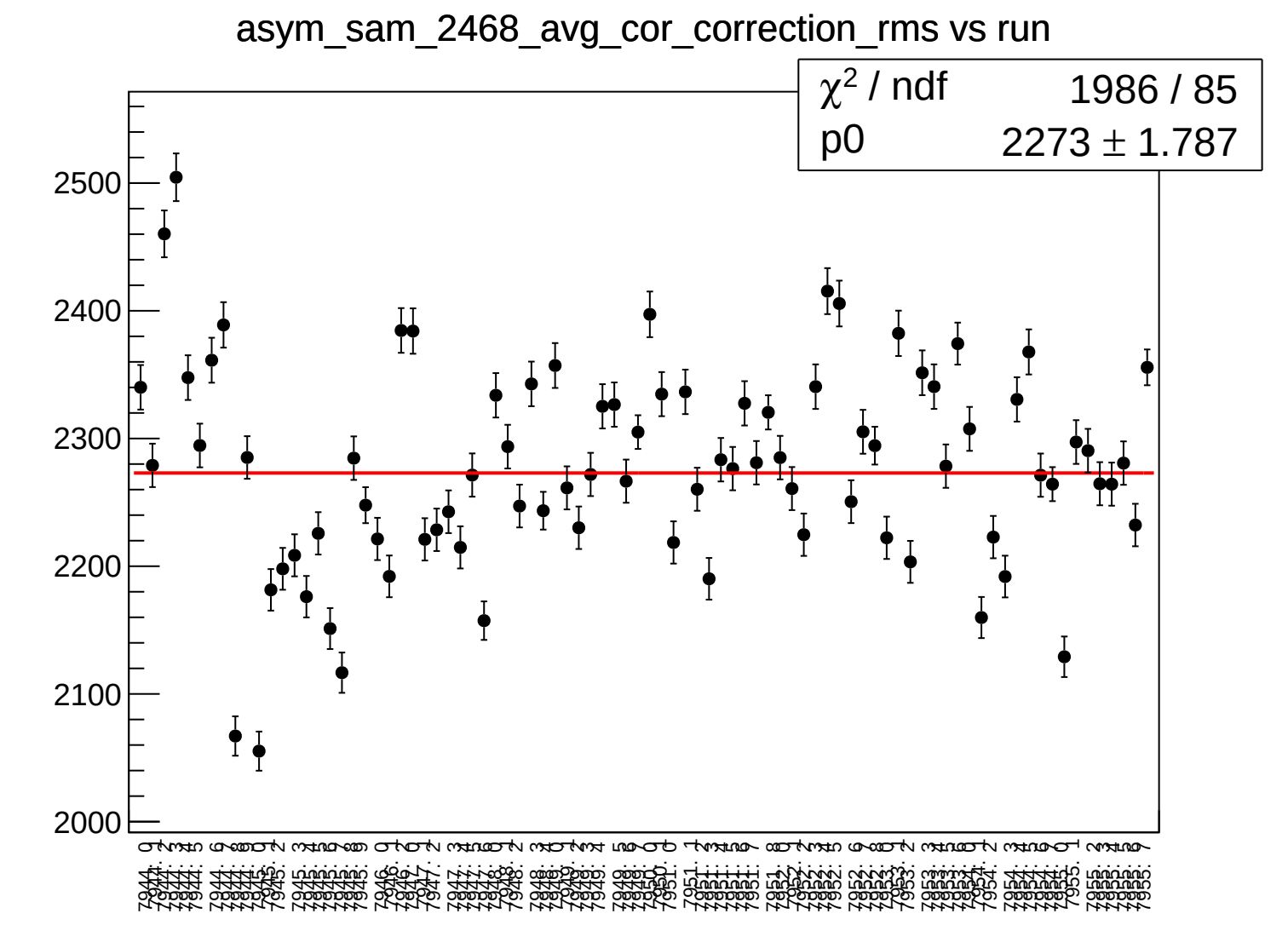

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 84.45 / 85
p0 208.2 ± 226.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −353.1
Std Dev 0
2
1
0
−1
−2

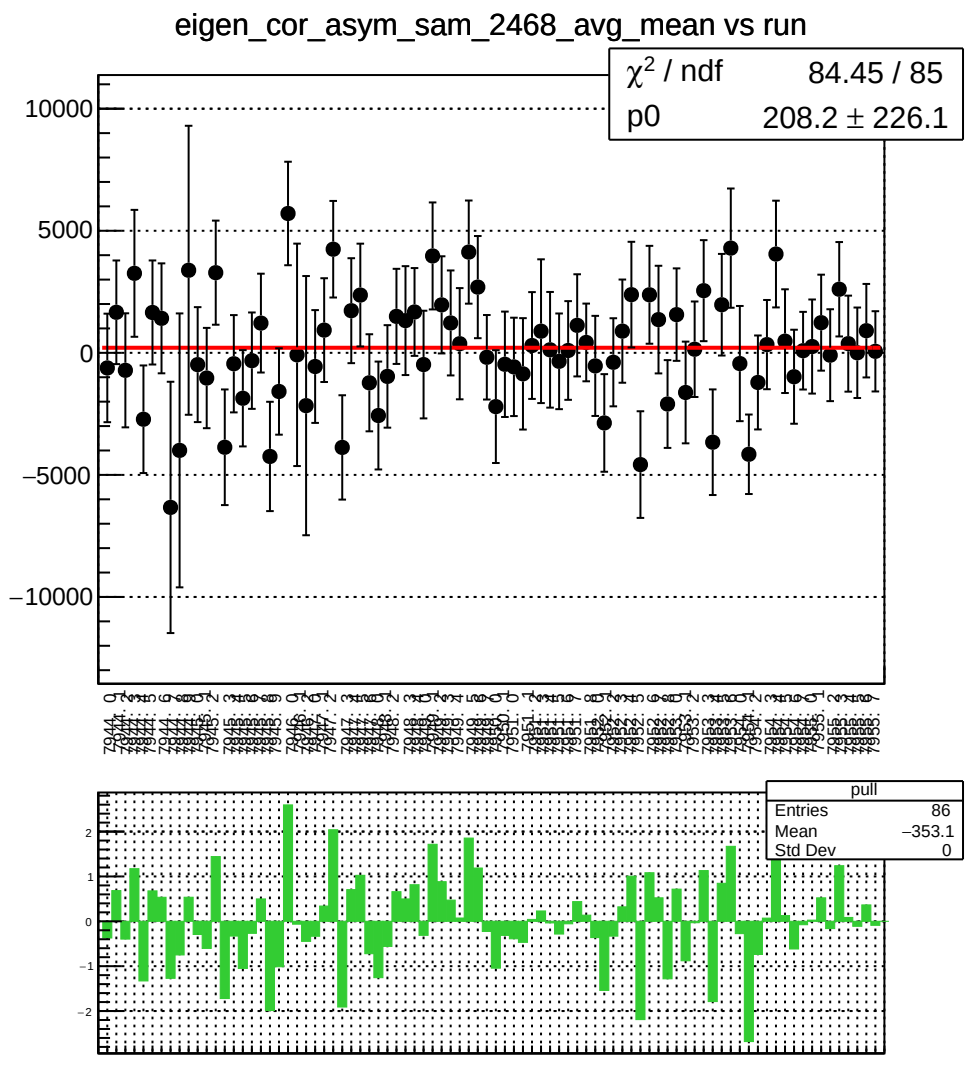

pull1D
Entries 86
Mean −0.002312
Std Dev 0.9909
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

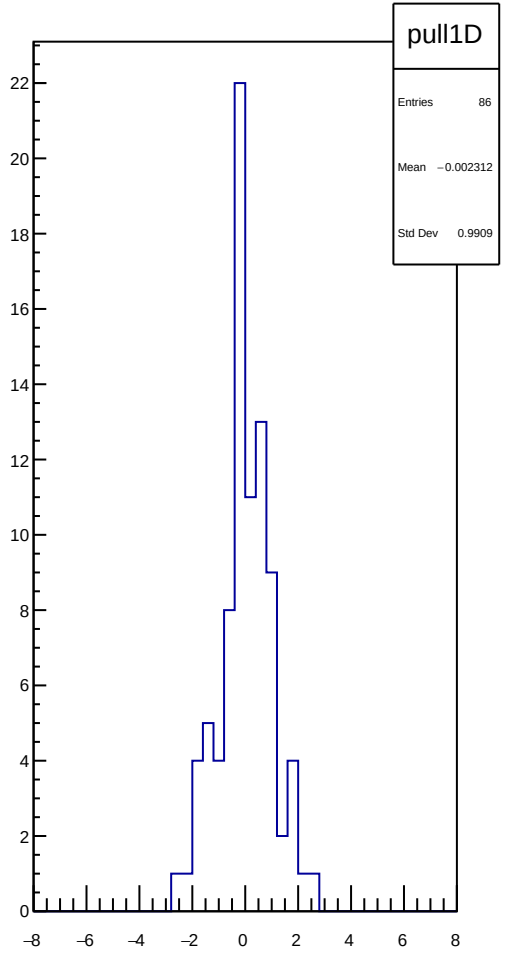

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.382e+04 / 85
p0 200.7 ± 0.1599
600
500
400
300
200

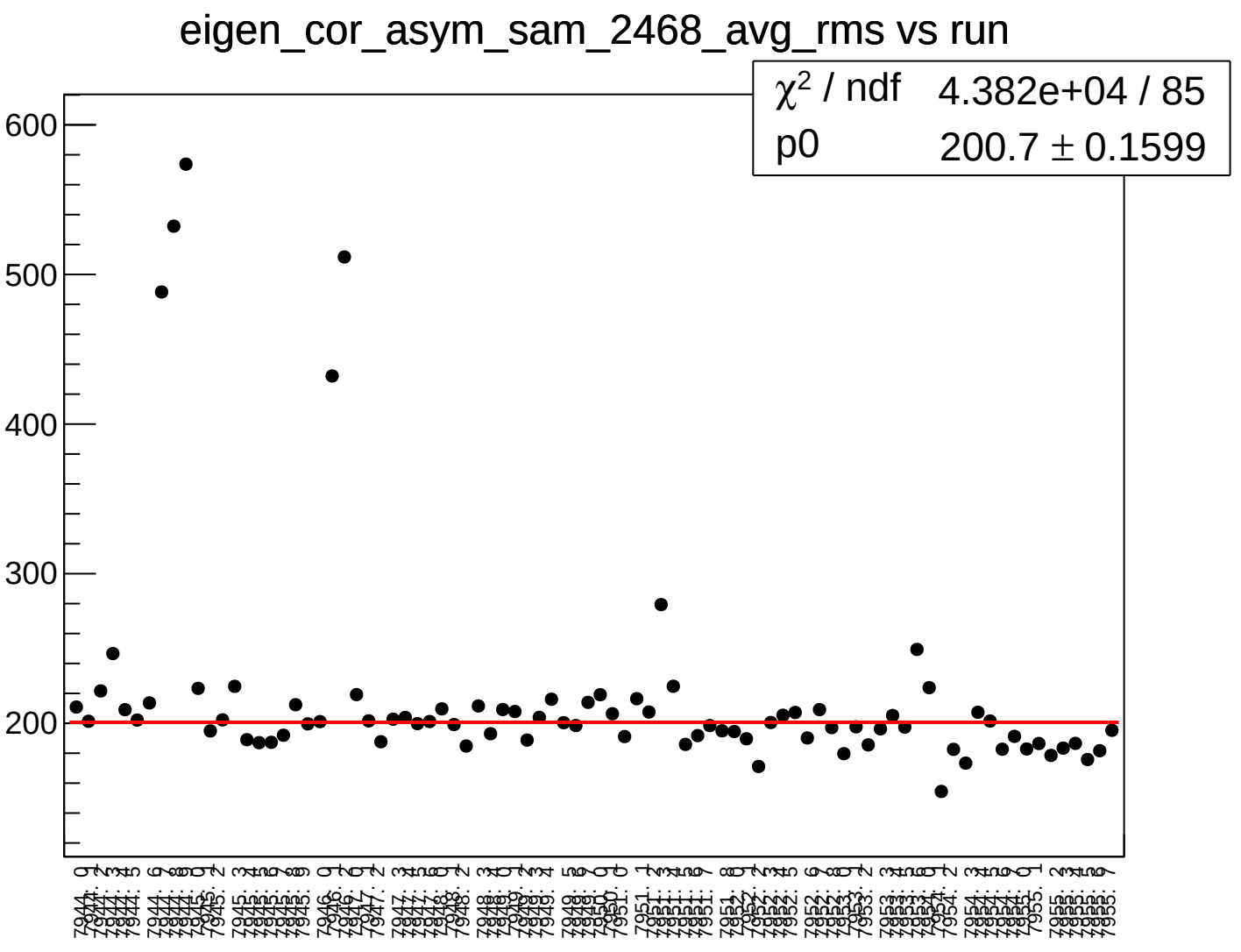

asym_sam_2468_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.06 / 85
p0 −1075 ± 2528
pull
Entries 86
Mean 1176
Std Dev 0

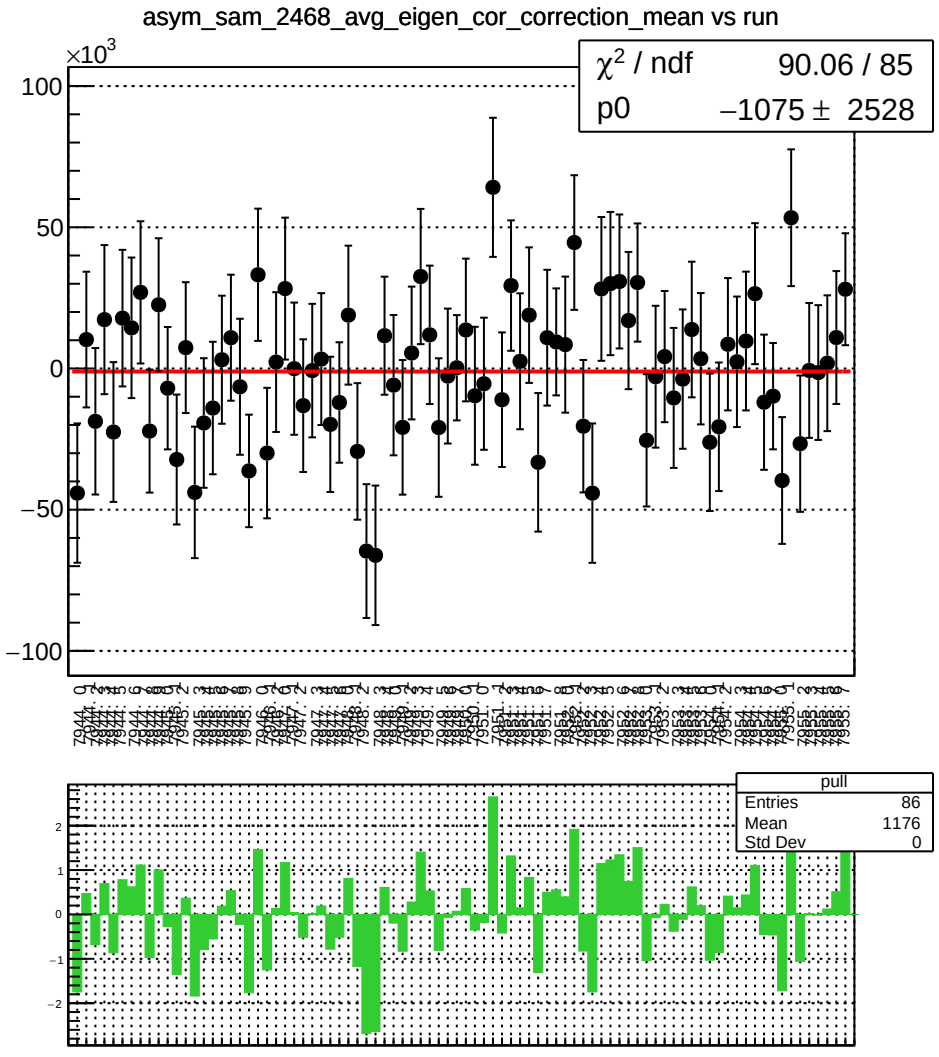

pull1D
Entries 86
Mean 0.003703
Std Dev 1.023

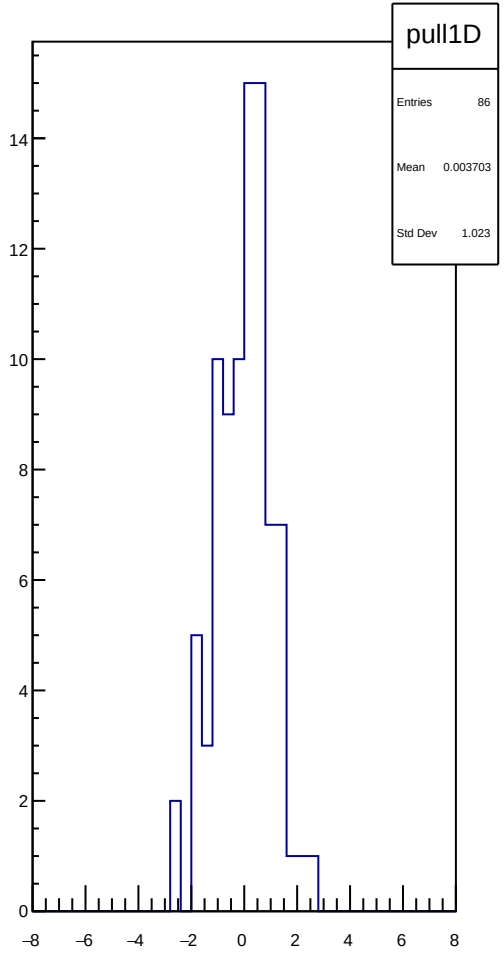

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1986 / 85
p0 2273 ± 1.787
2500
2400
2300
2200
2100
2000

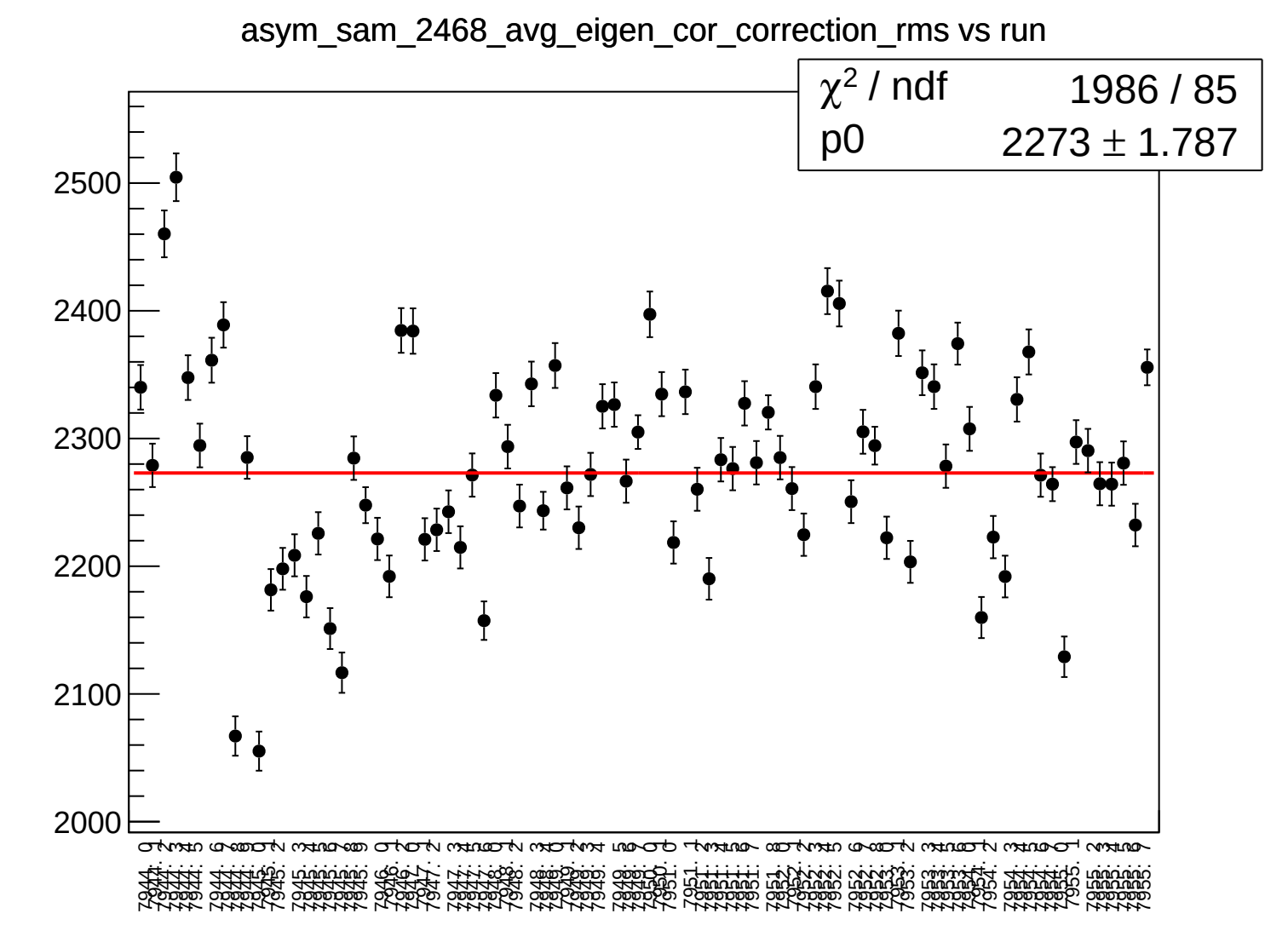

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 84.45 / 85
p0 208.2 ± 226.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −353.1
Std Dev 0
2
1
0
−1
−2

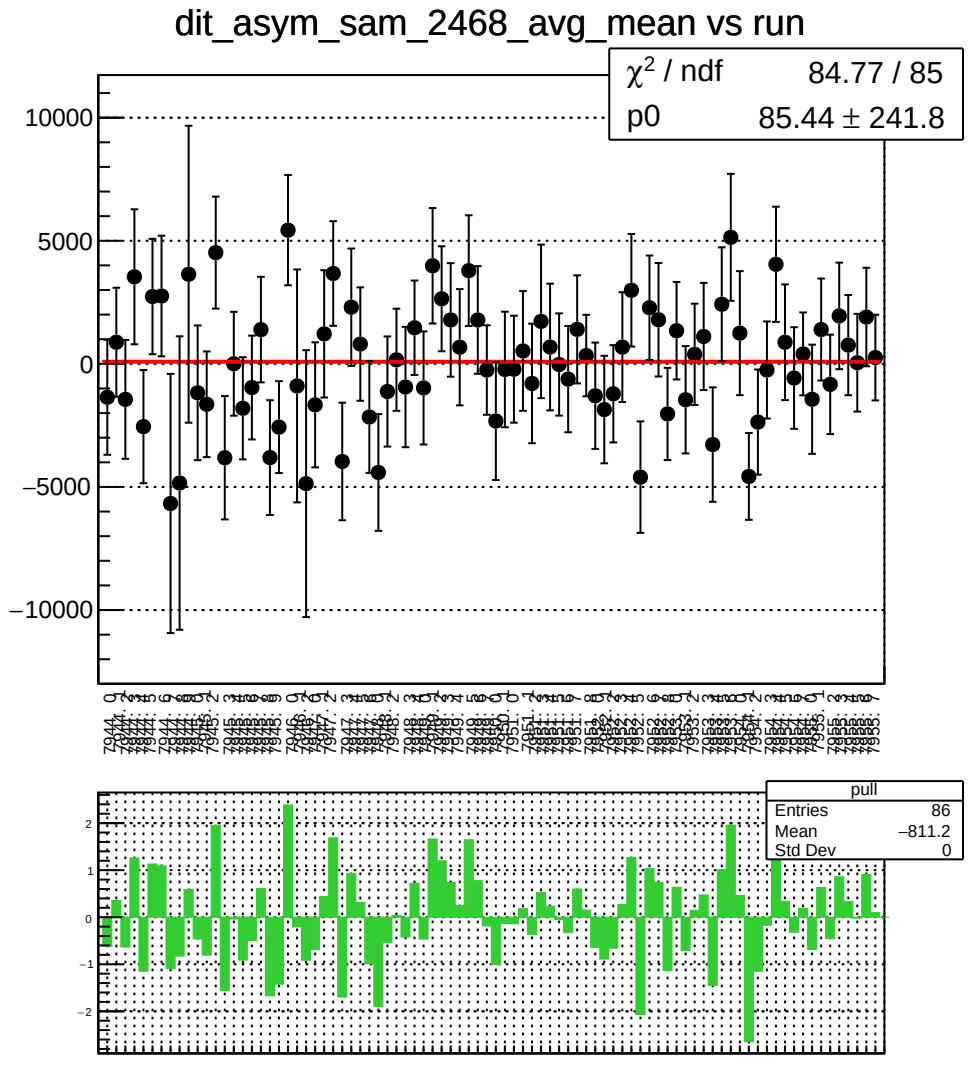

pull1D
Entries 86
Mean −0.002312
Std Dev 0.9909
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

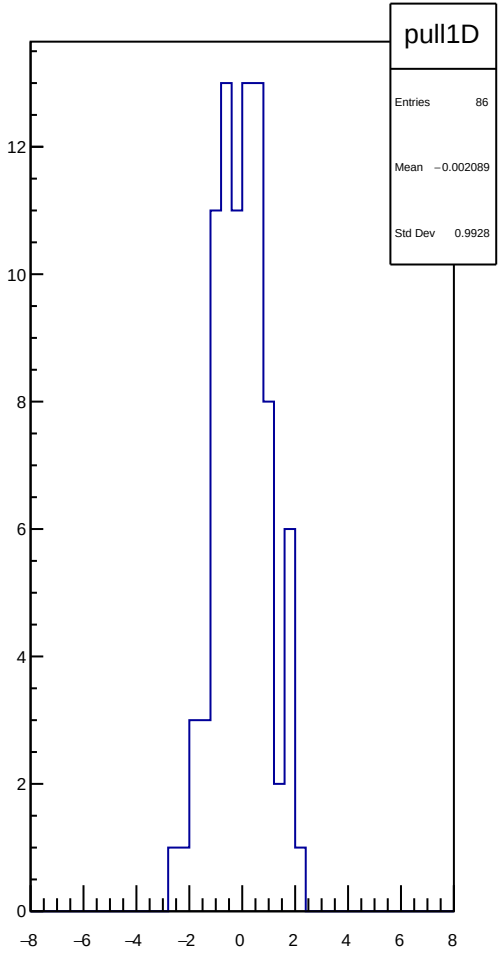

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 4.382e+04 / 85
p0 200.7 ± 0.1599
600
500
400
300
200

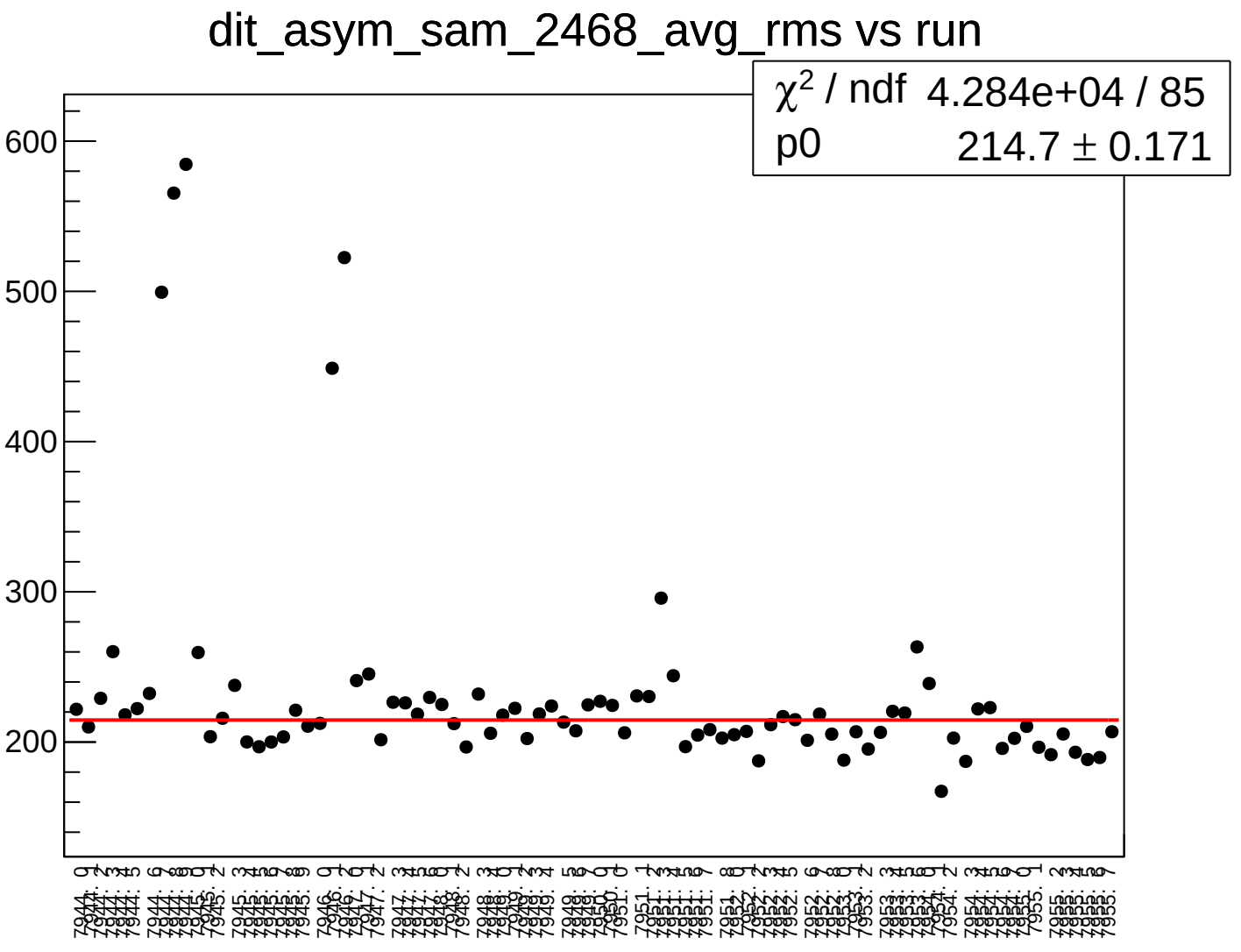

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.06 / 85
p0 −1075 ± 2528
100
50
0
−50
−100
pull
Entries 86
Mean 1176
Std Dev 0
2
1
0
−1
−2

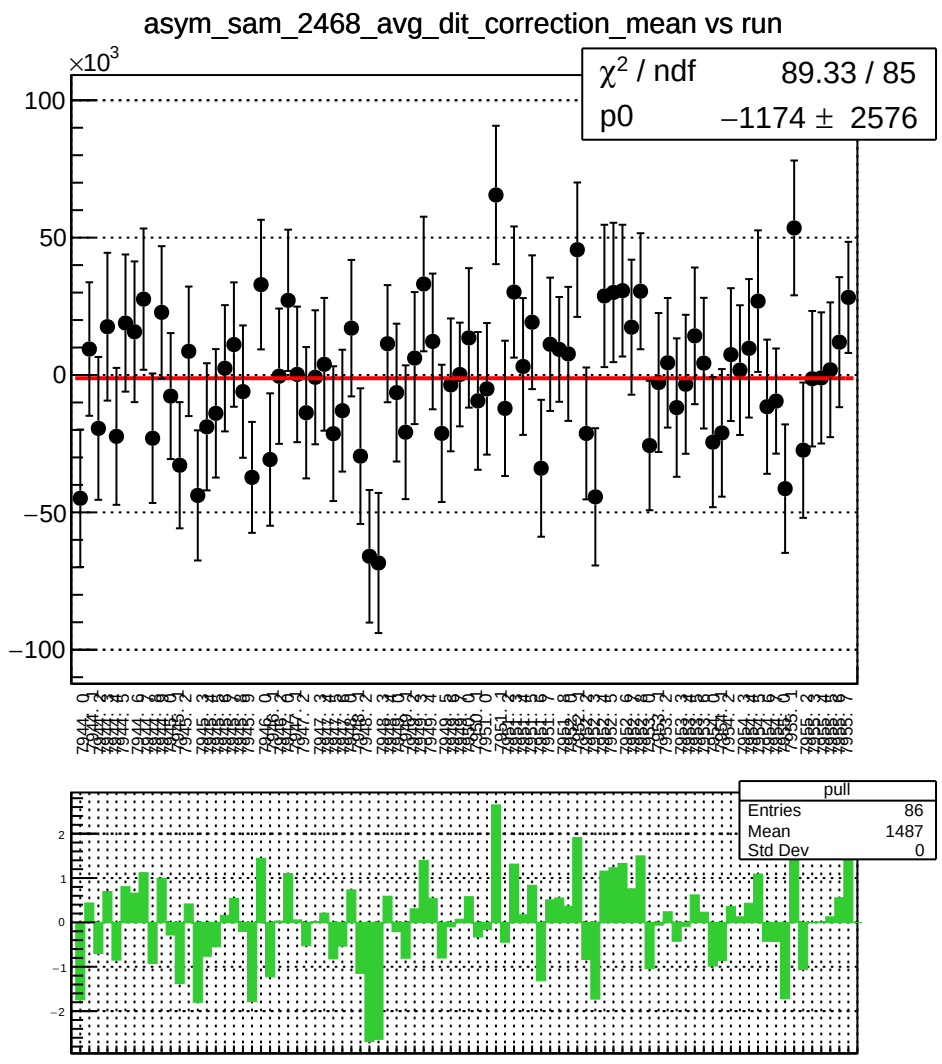

pull1D
Entries 86
Mean 0.003703
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

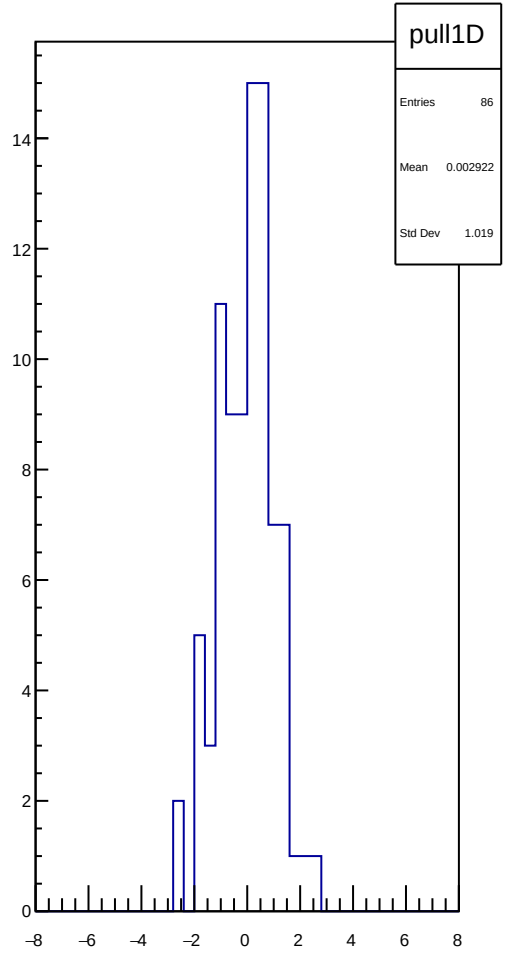

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1986 / 85
p0 2273 ± 1.787
2500
2400
2300
2200
2100
2000

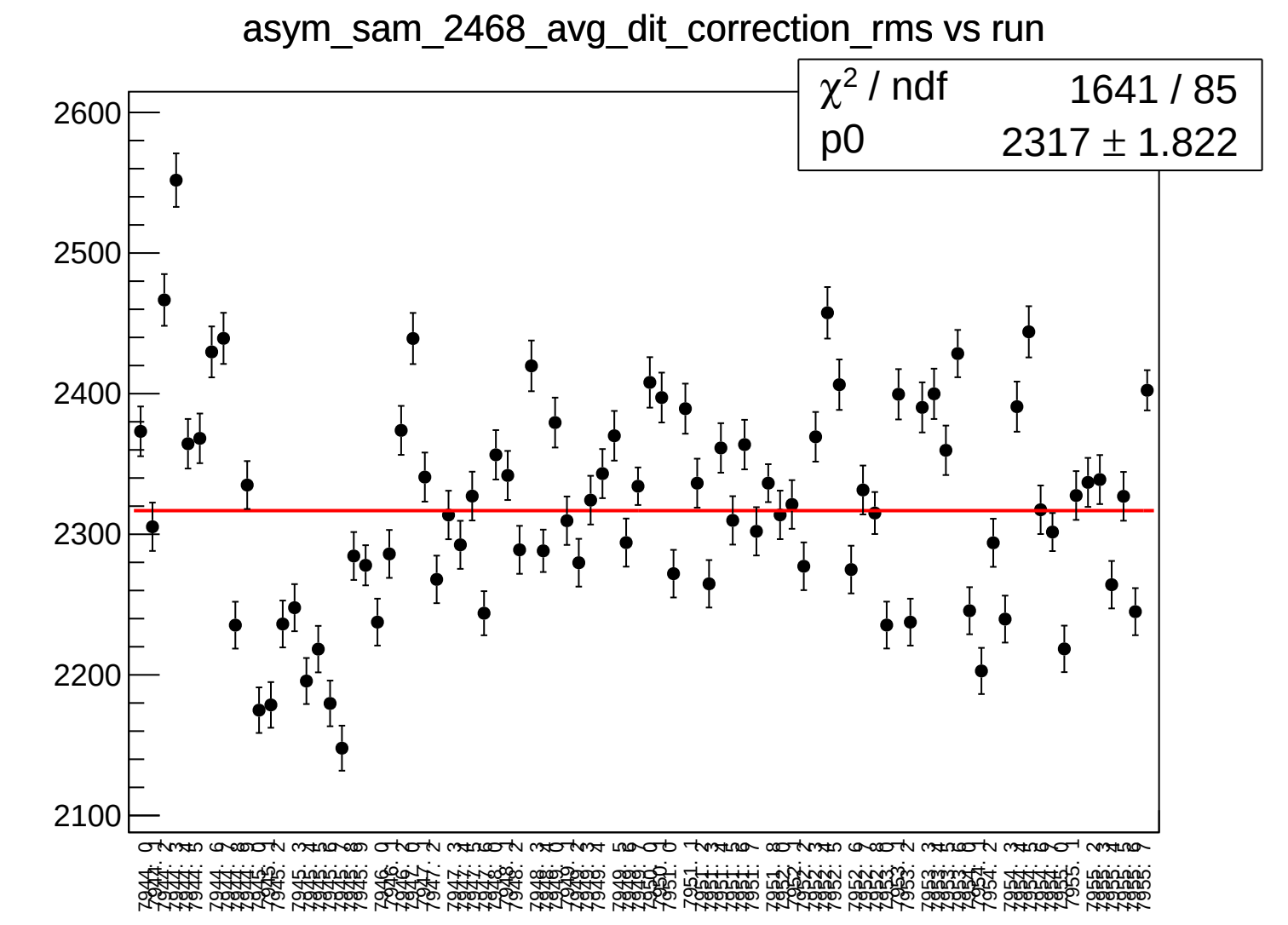

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 84.77 / 85
p0 85.44 ± 241.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −811.2
Std Dev 0
2
1
0
−1
−2

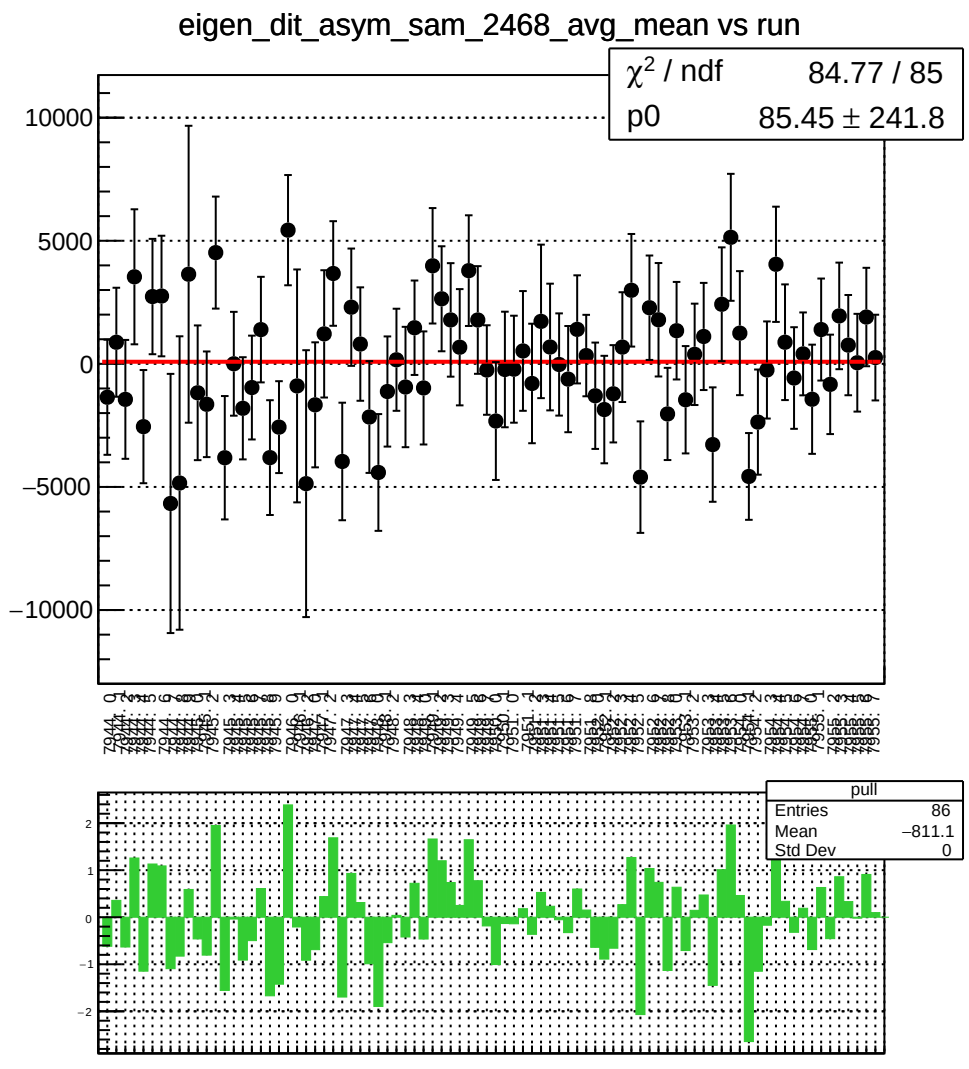

pull1D
Entries 86
Mean −0.002089
Std Dev 0.9928
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

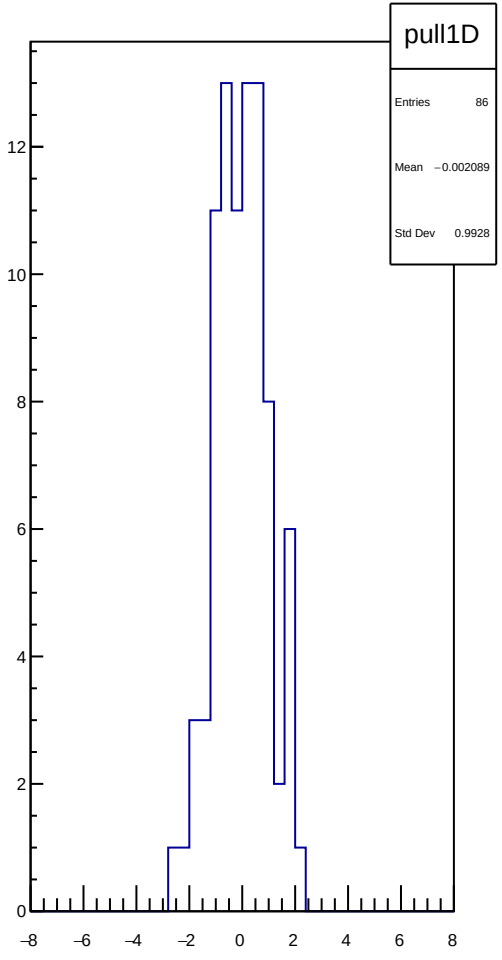

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.284e+04 / 85
p0 214.7 ± 0.171
600
500
400
300
200

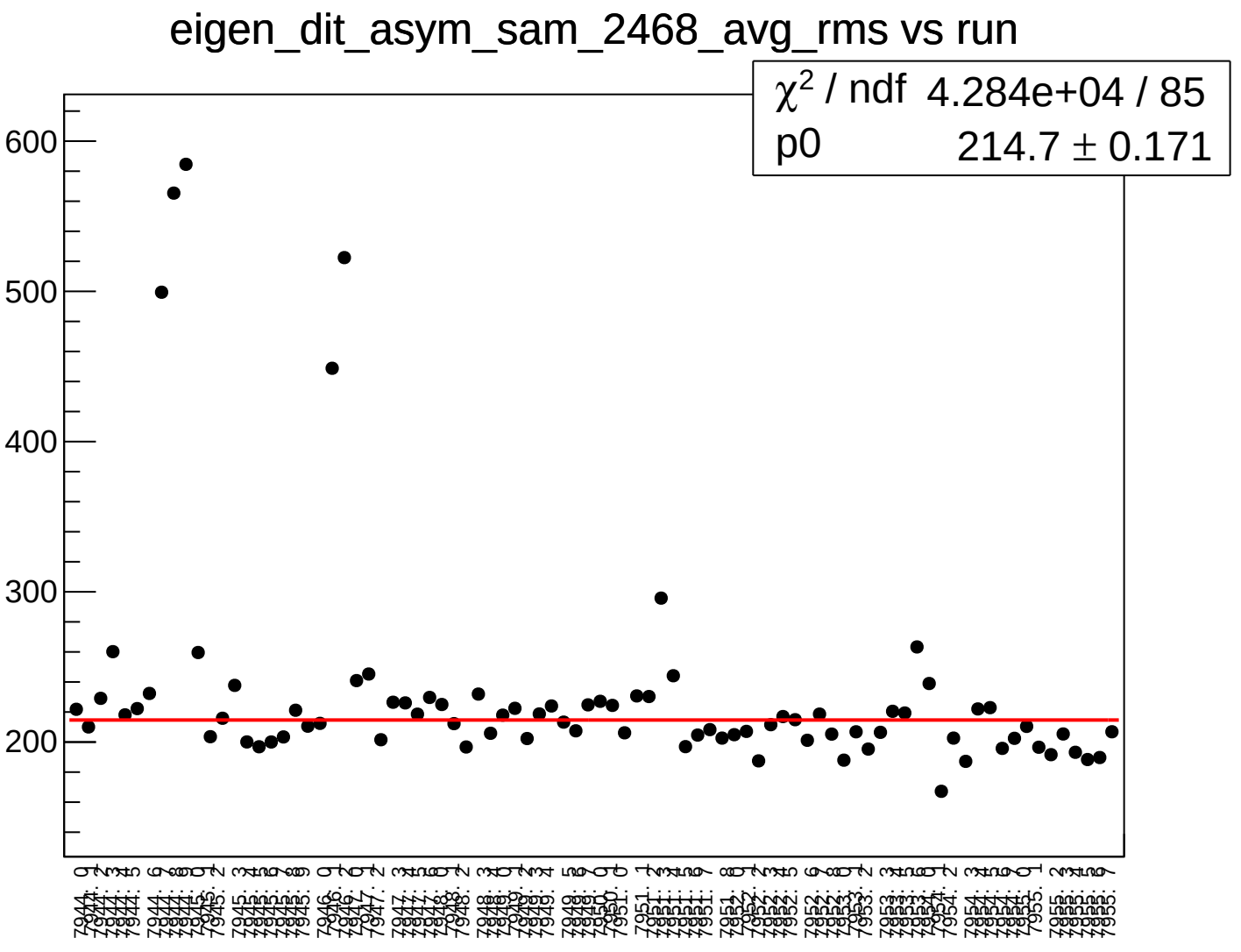

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.33 / 85
p0 −1174 ± 2576
100
50
0
−50
−100
pull
Entries 86
Mean 1487
Std Dev 0
2
1
0
−1
−2

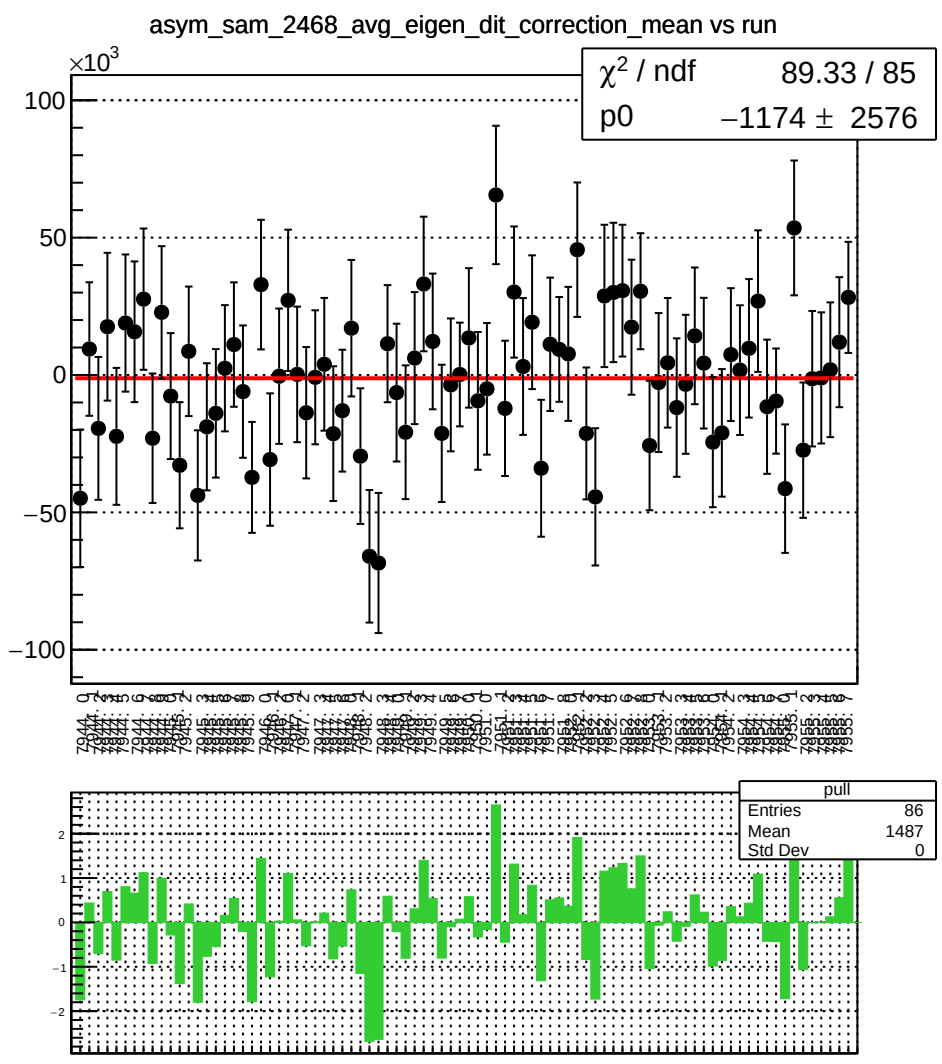

pull1D
Entries 86
Mean 0.002922
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

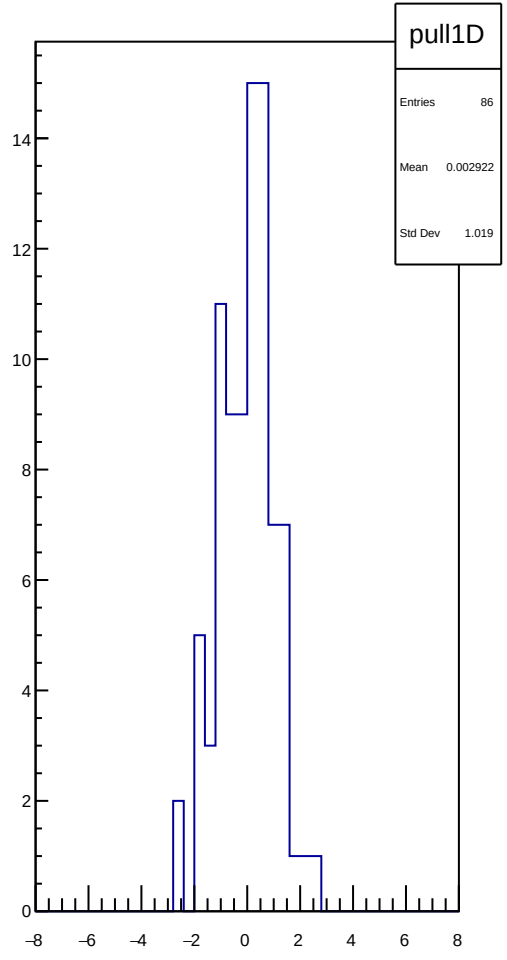

asym_sam_2468_avg_dit_correction_rms vs run
χ^2 / ndf 1641 / 85
p0 2317 ± 1.822
2600
2500
2400
2300
2200
2100

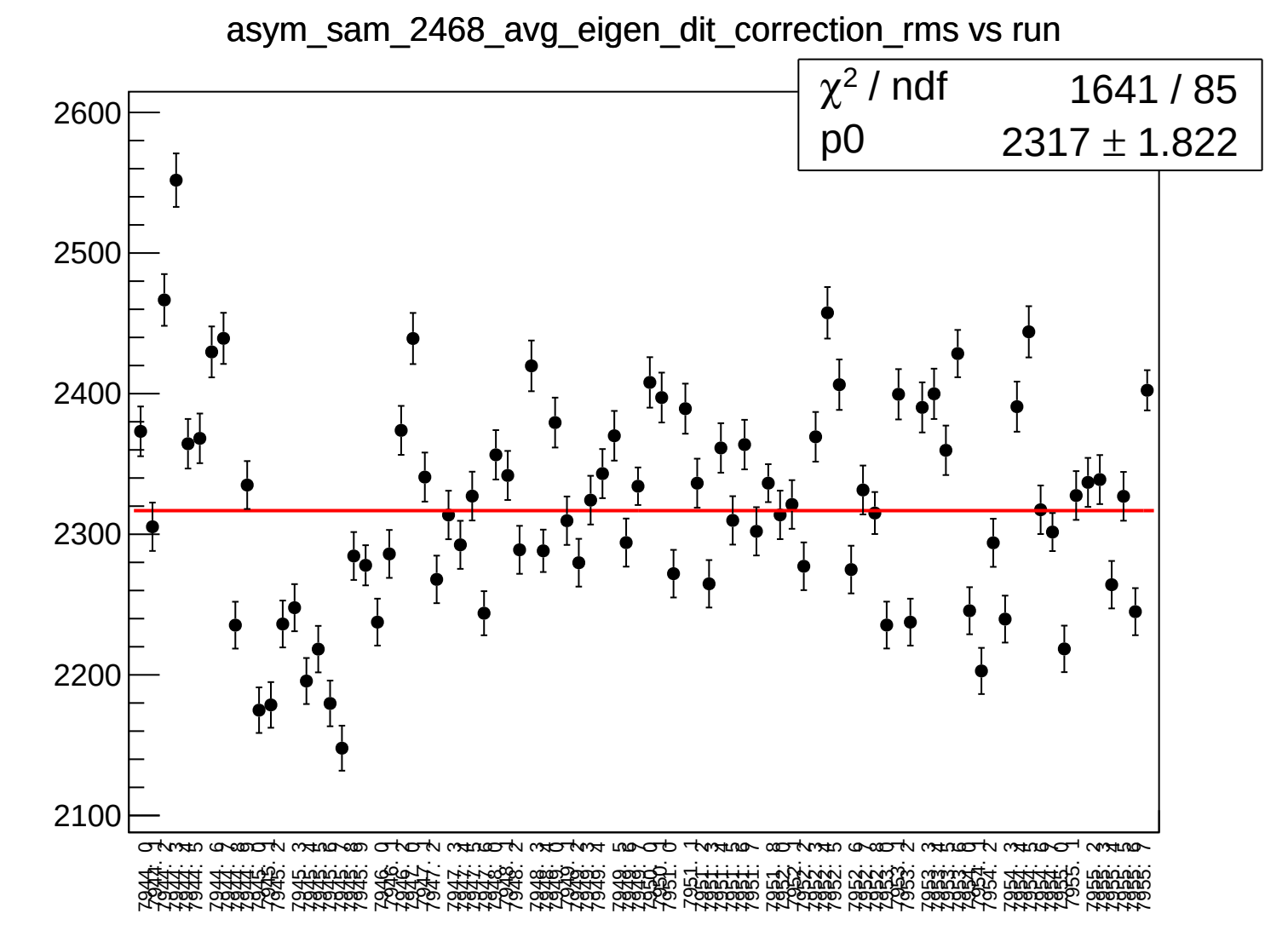

eigen_dit_asym_sam_2468_avg_mean vs run
χ^2 / ndf 84.77 / 85
p0 85.45 ± 241.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −811.1
Std Dev 0
2
1
0
−1
−2

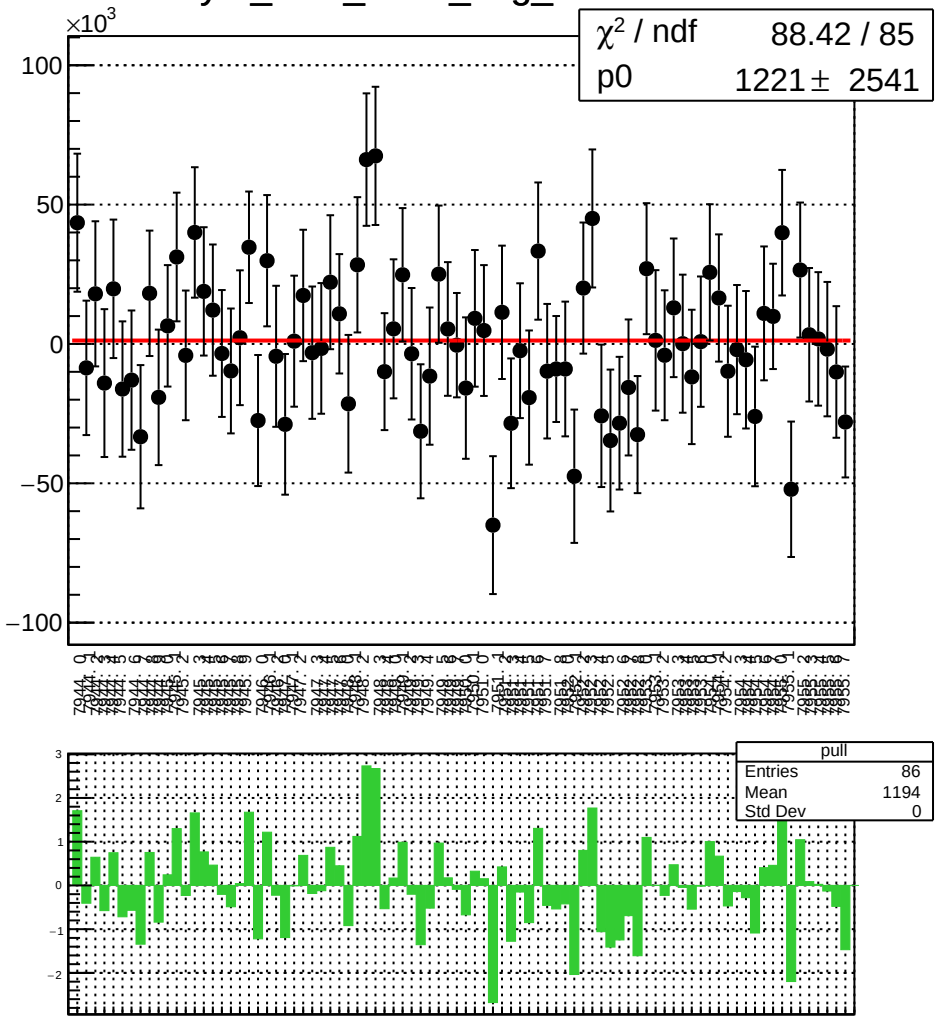

pull1D
Entries 86
Mean −0.002089
Std Dev 0.9928
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

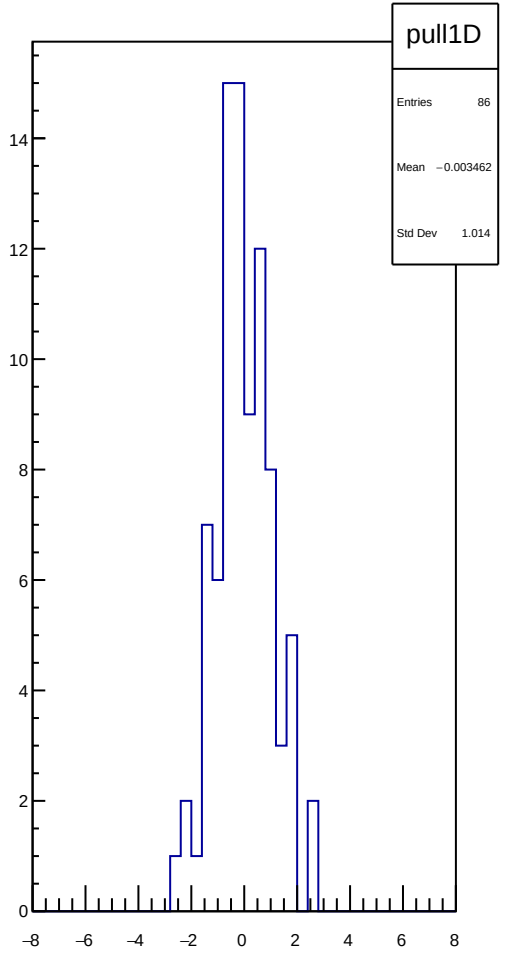

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.284e+04 / 85
p0 214.7 ± 0.171
600
500
400
300
200

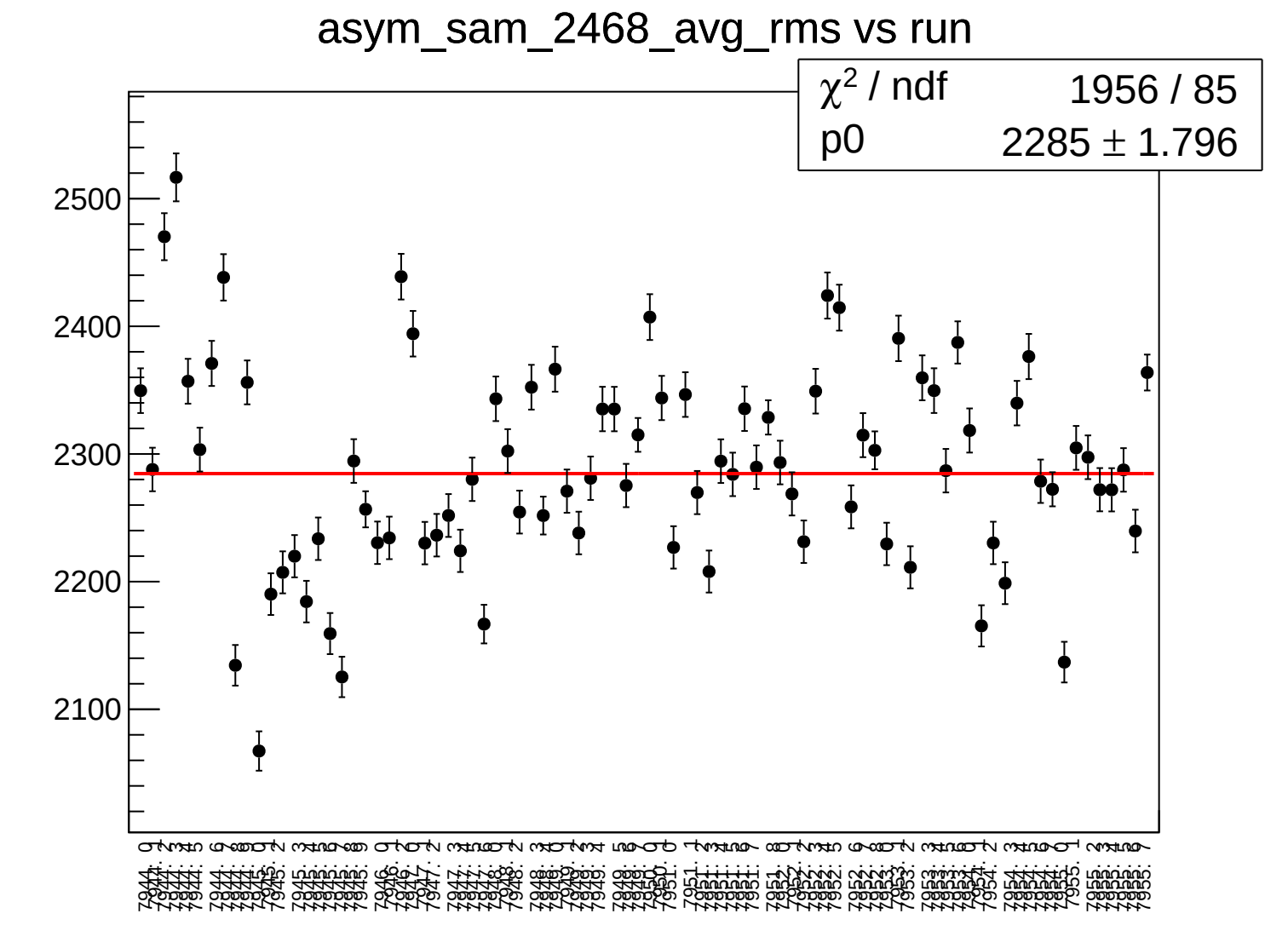

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.33 / 85
p0 −1174 ± 2576
100
50
0
−50
−100
pull
Entries 86
Mean 1487
Std Dev 0
2
1
0
−1
−2

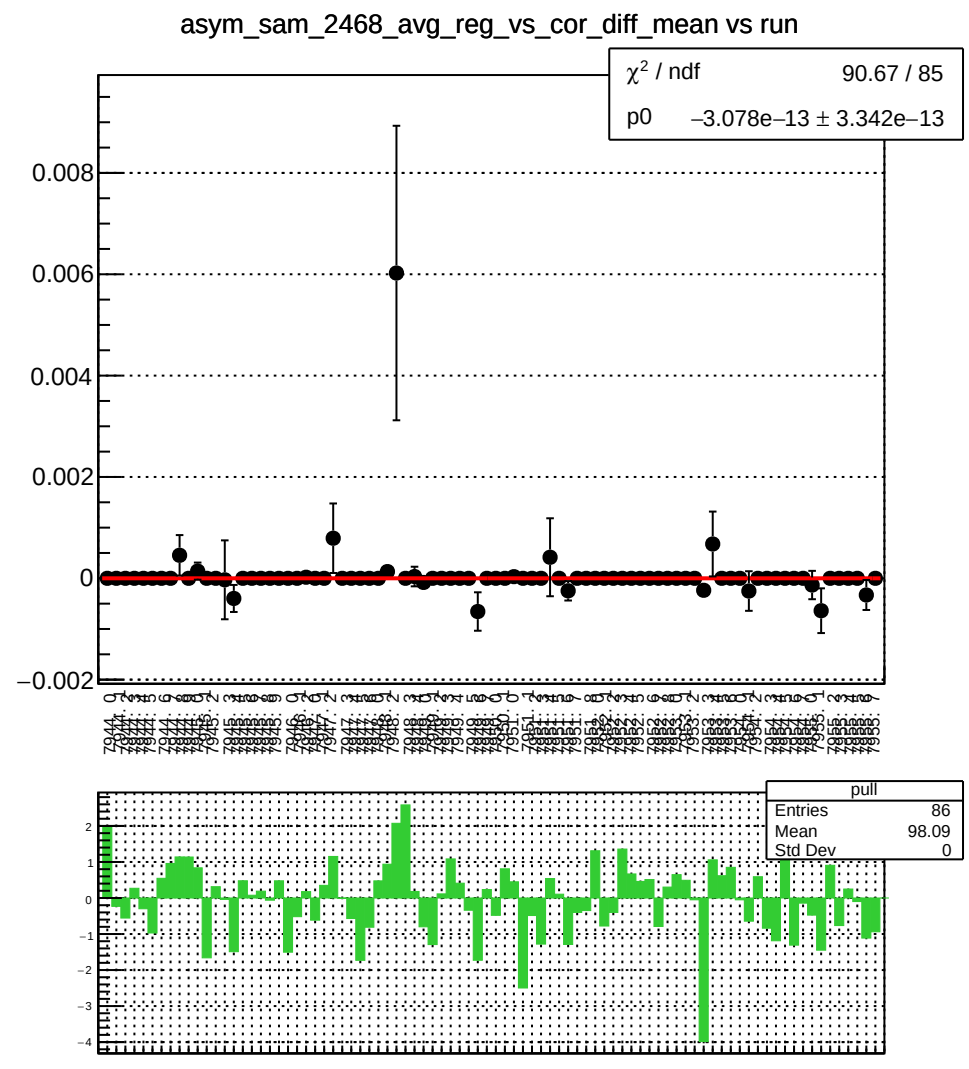

pull1D
Entries 86
Mean 0.002922
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

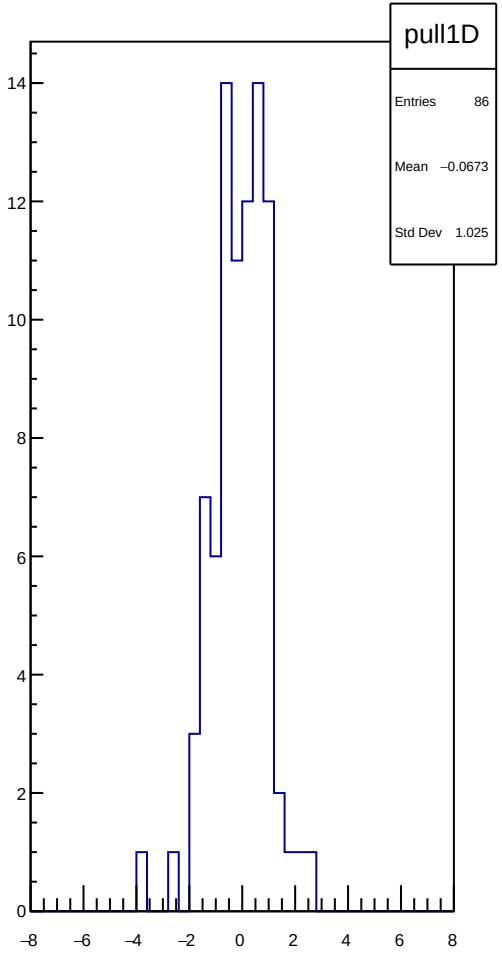

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1641 / 85
p0 2317 ± 1.822
2600
2500
2400
2300
2200
2100

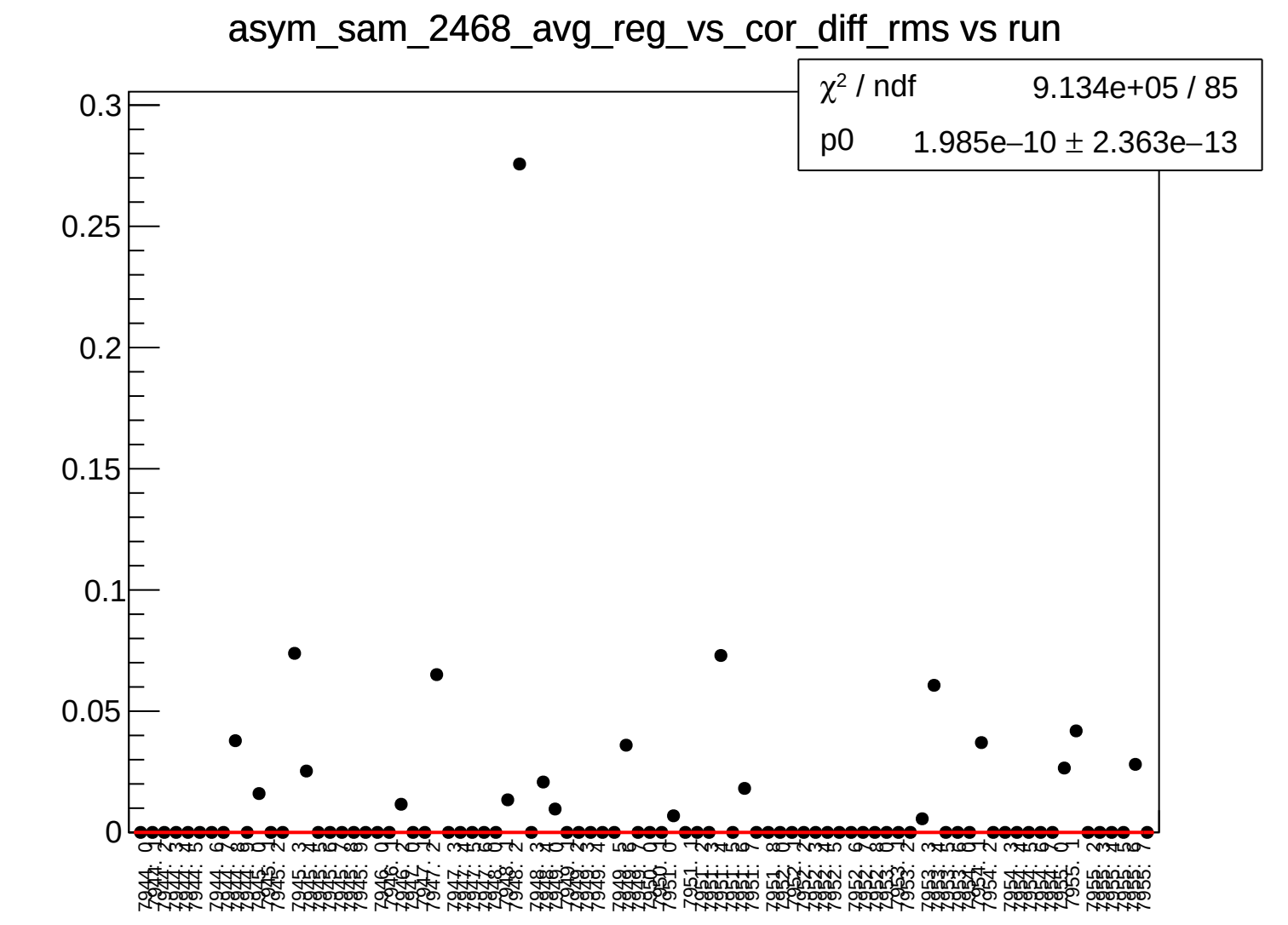

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 88.42 / 85
p0 1221 ± 2541
100
50
0
−50
−100
pull
Entries 86
Mean 1194
Std Dev 0
3
2
1
0
−1
−2

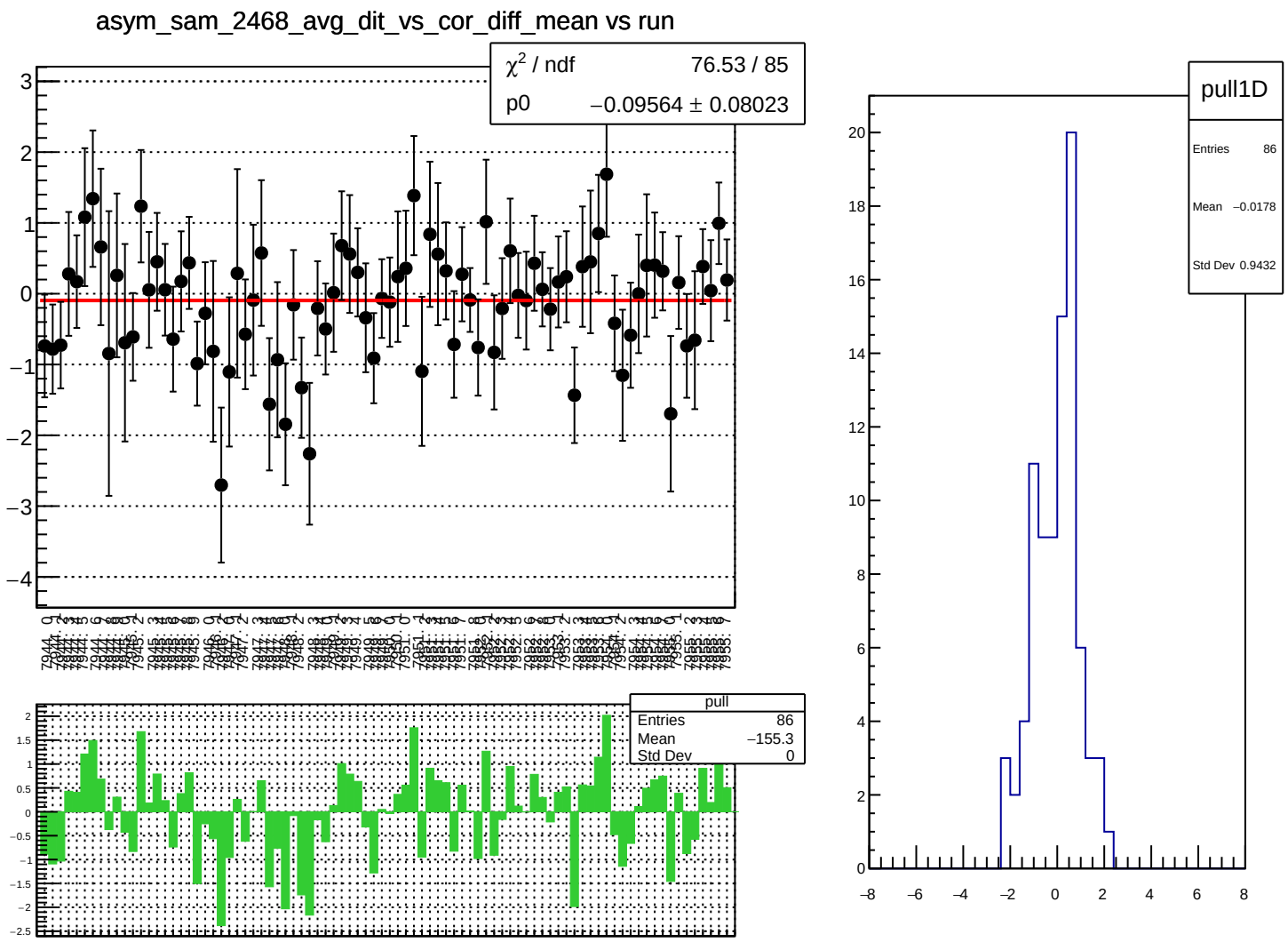

pull1D
Entries 86
Mean −0.003462
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

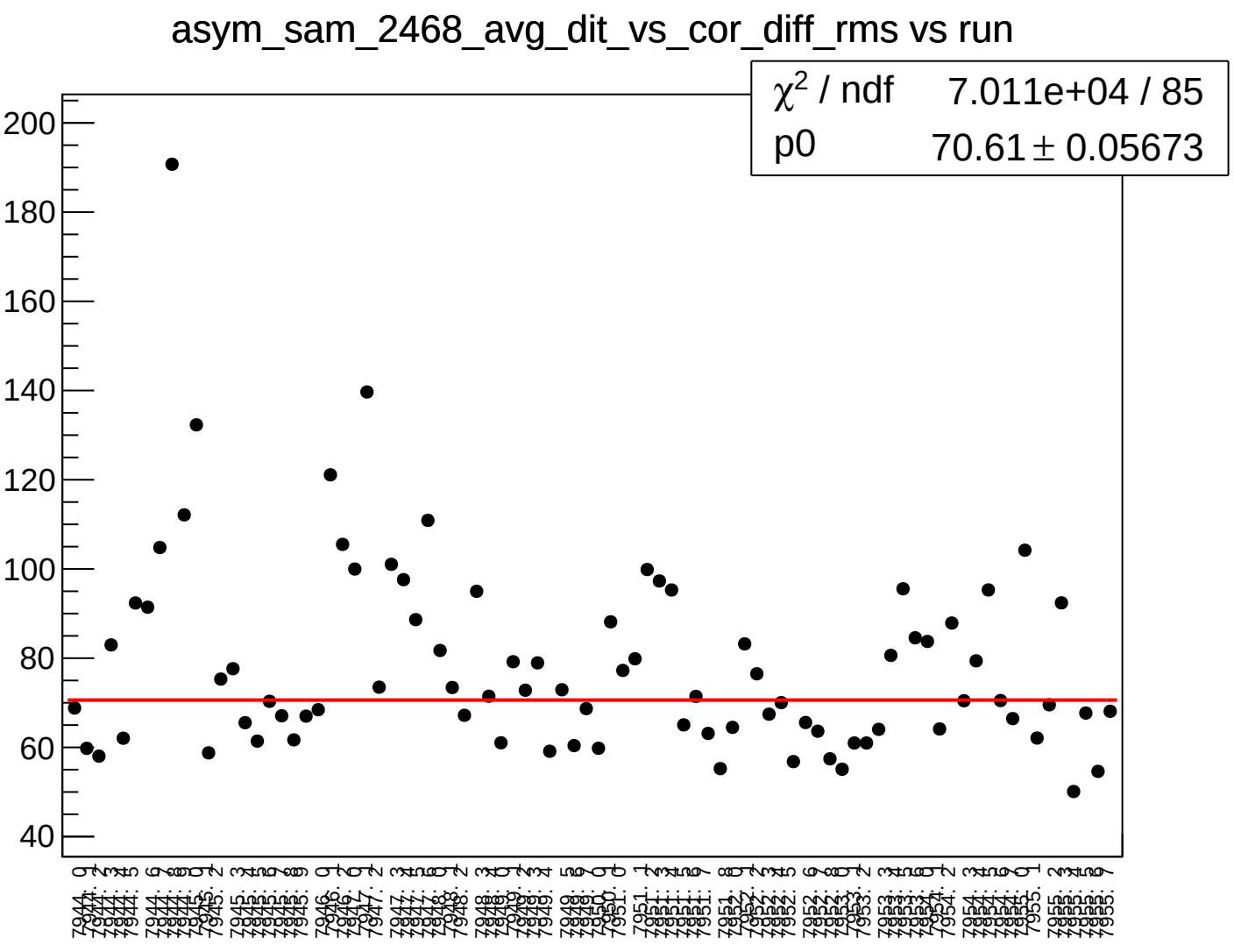

asym_sam_2468_avg_rms vs run
χ² / ndf 1956 / 85
p0 2285 ± 1.796
2500
2400
2300
2200
2100

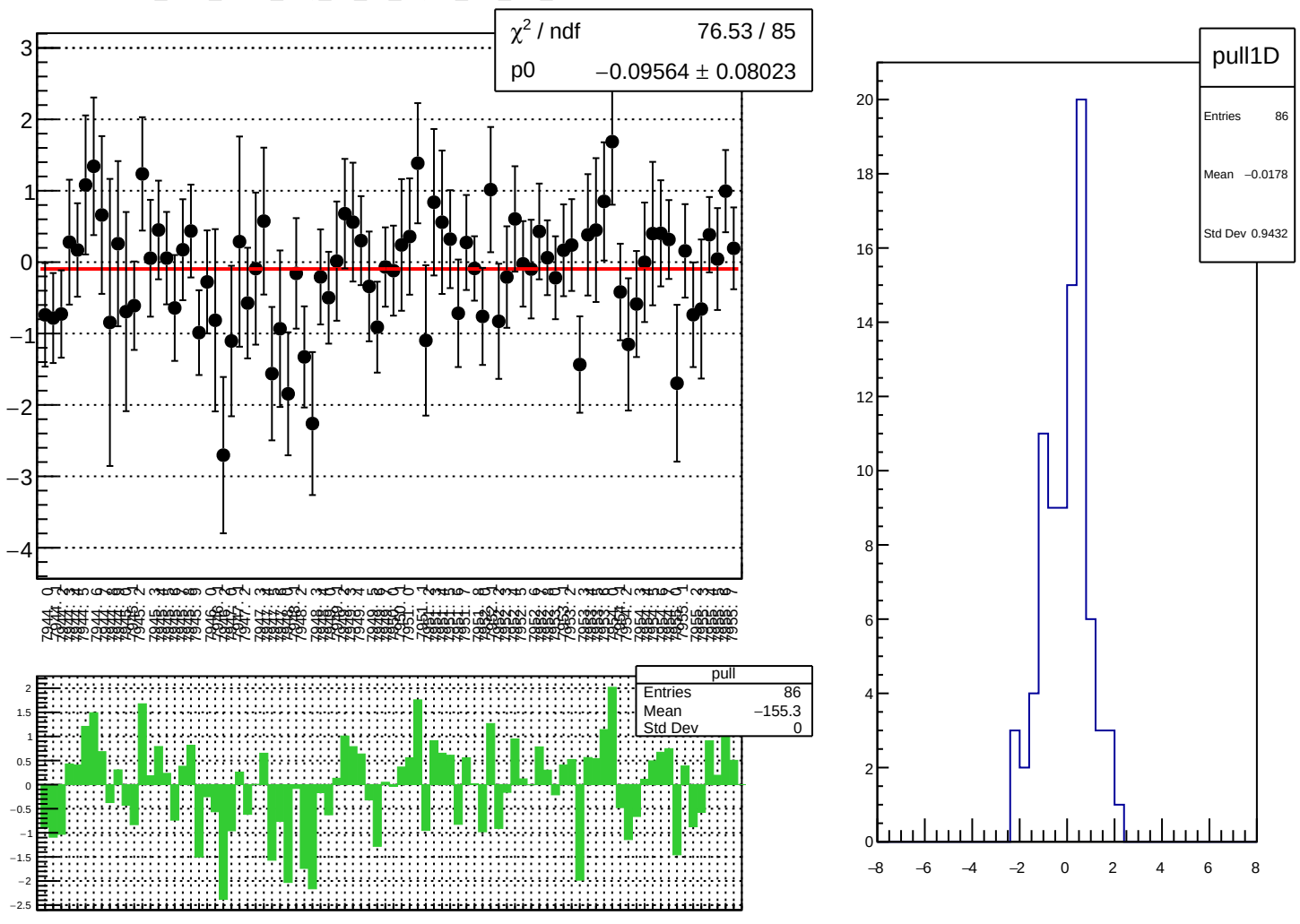

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.67 / 85
p0 −3.078e−13 ± 3.342e−13
0.008
0.006
0.004
0.002
0
−0.002
pull
Entries 86
Mean 98.09
Std Dev 0
2
1
0
−1
−2
−3
−4

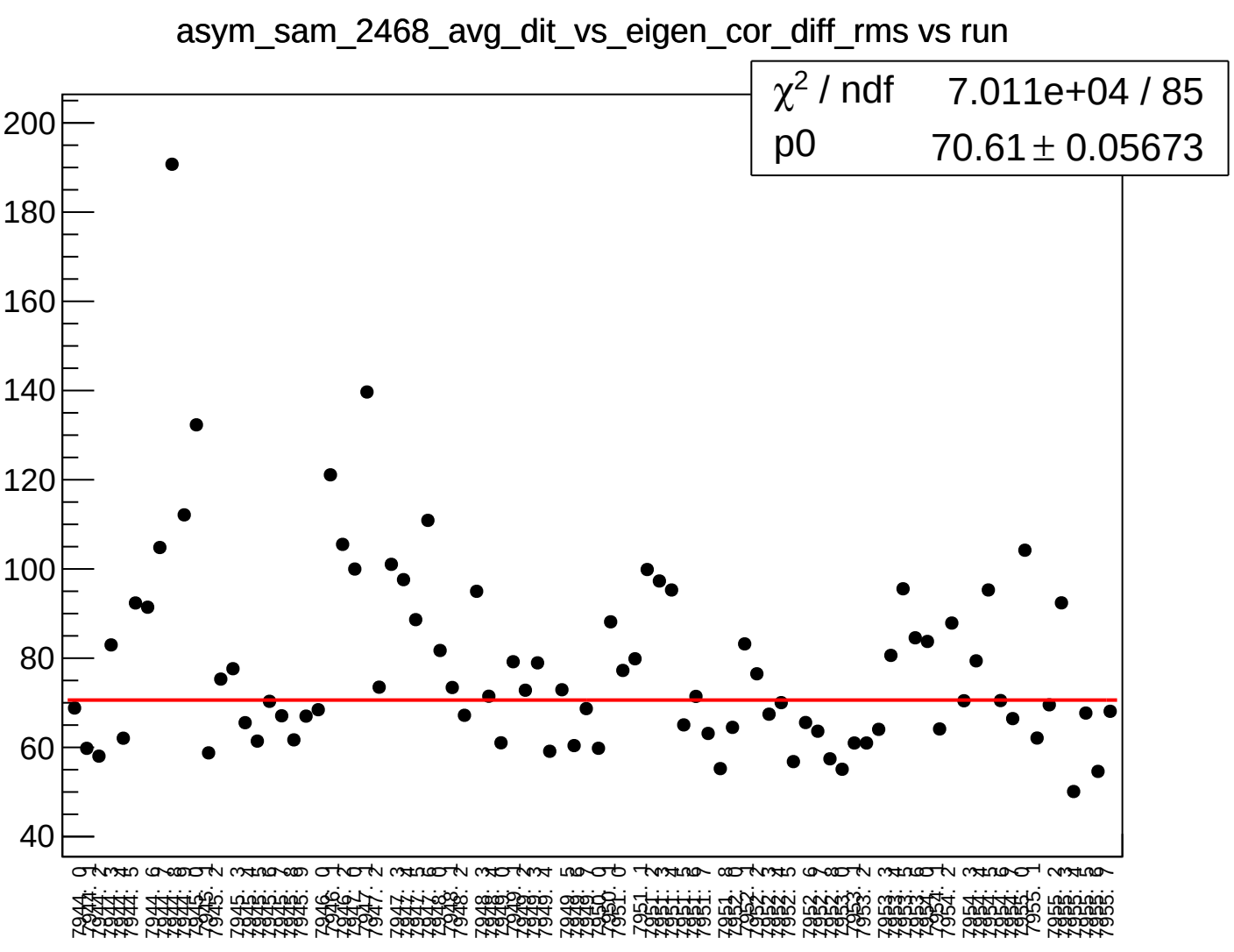

pull1D
Entries 86
Mean −0.0673
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

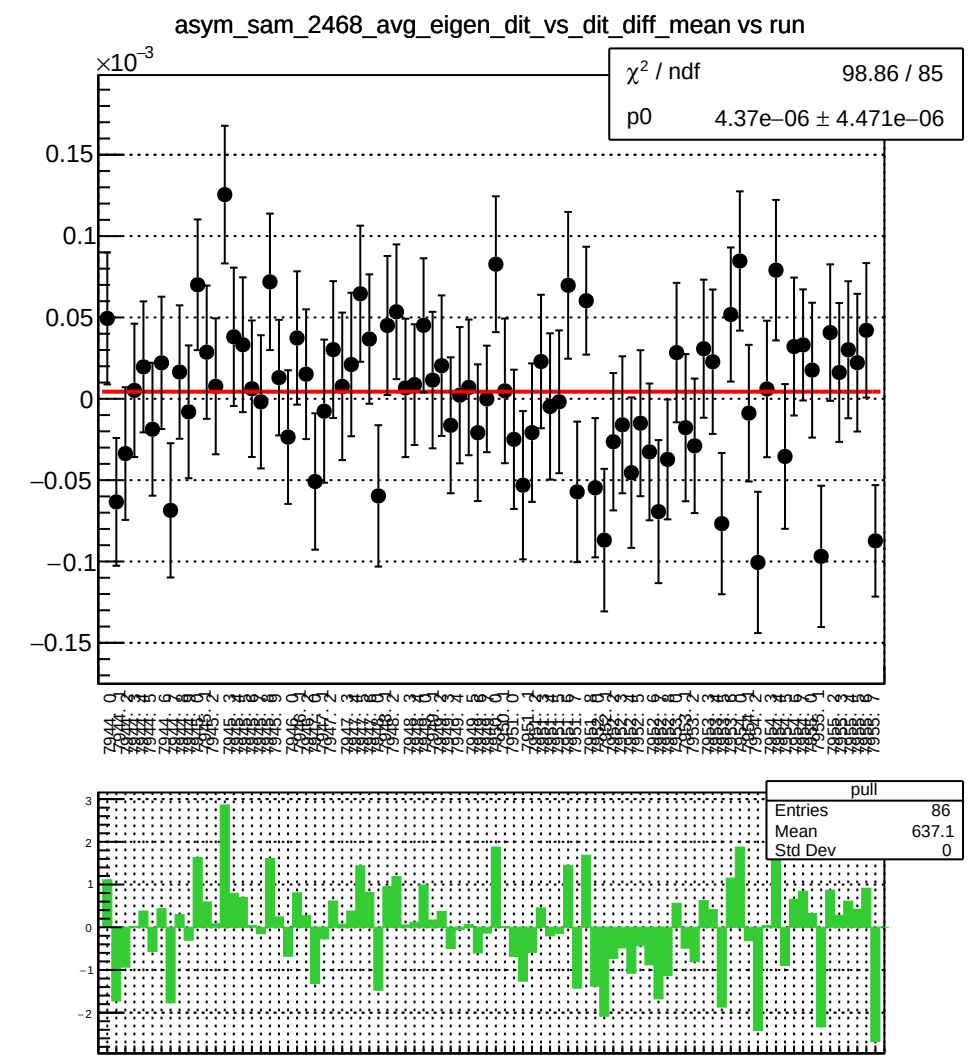

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.134e+05 / 85
p0 1.985e−10 ± 2.363e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

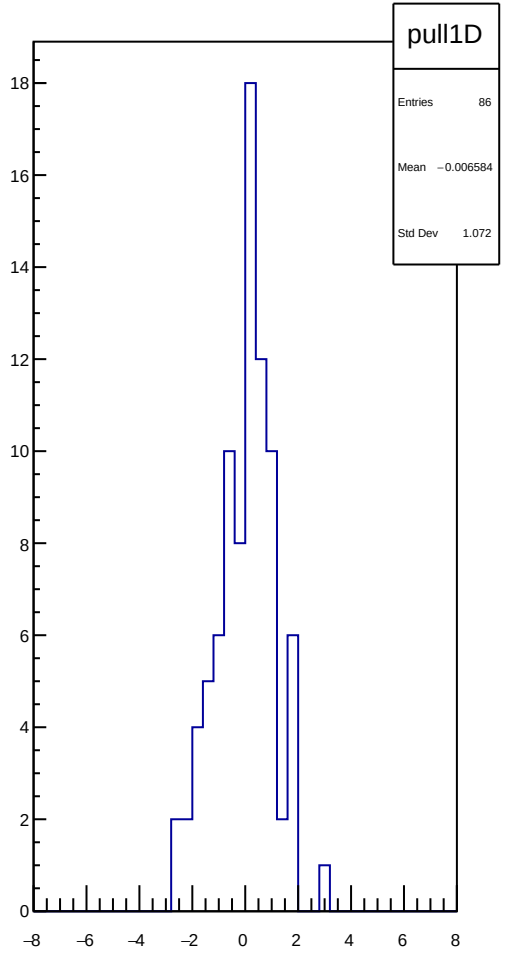

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.53 / 85
p0 −0.09564 ± 0.08023
pull
Entries 86
Mean −155.3
Std Dev 0
pull1D
Entries 86
Mean −0.0178
Std Dev 0.9432

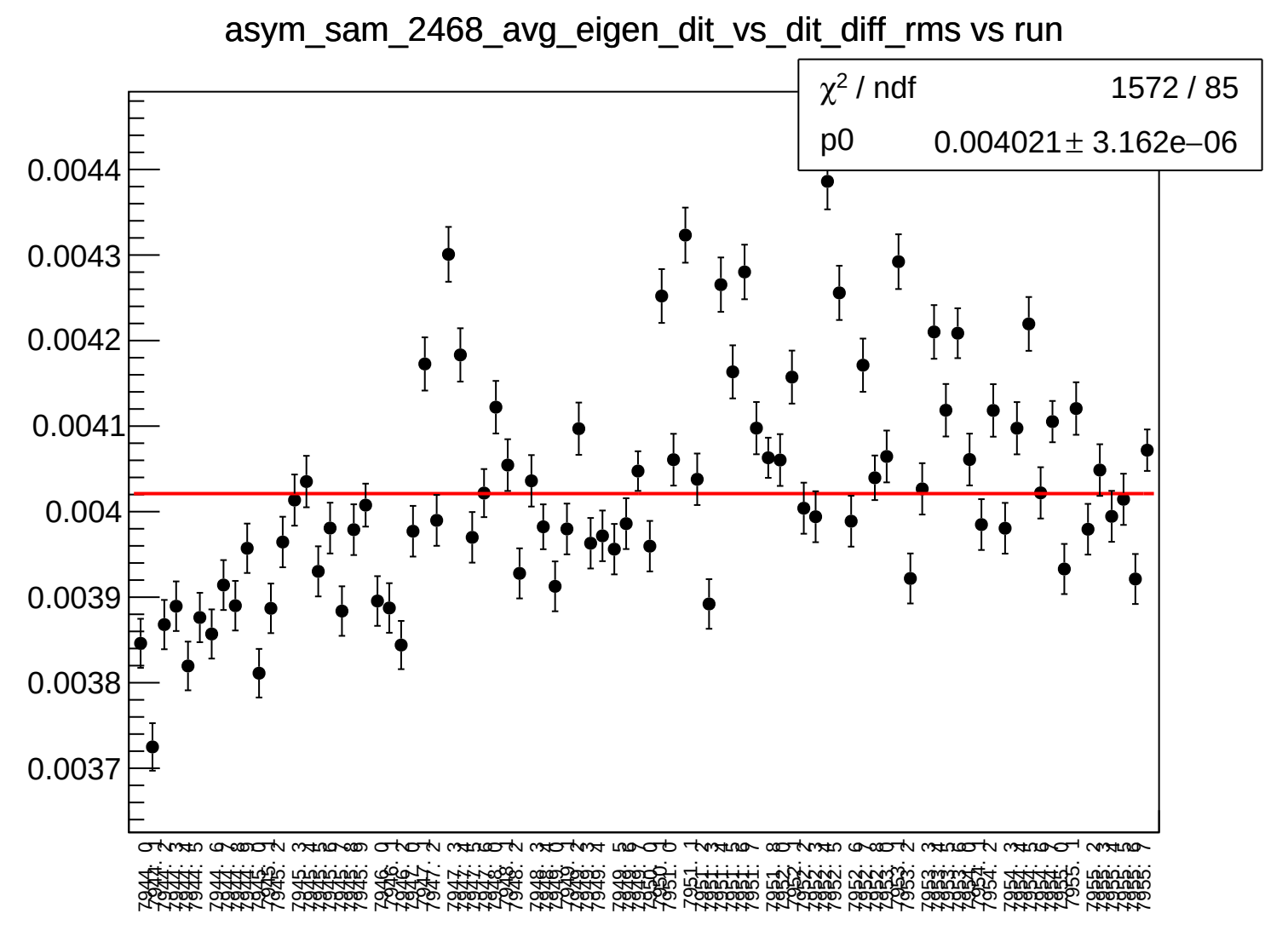

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.011e+04 / 85
p0 70.61 ± 0.05673
200
180
160
140
120
100
80
60
40

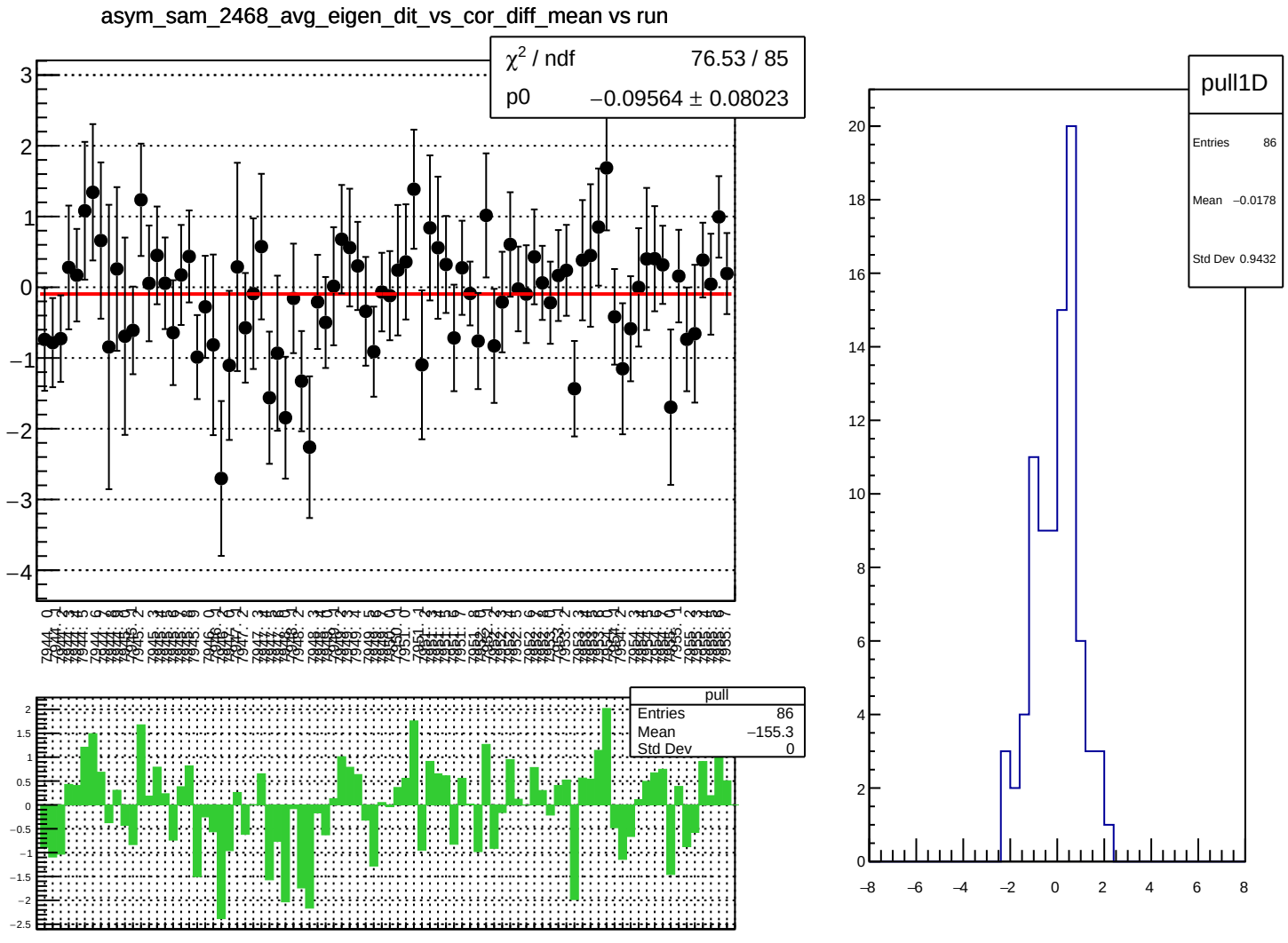

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.53 / 85
p0 −0.09564 ± 0.08023
pull
Entries 86
Mean −155.3
Std Dev 0
pull1D
Entries 86
Mean −0.0178
Std Dev 0.9432

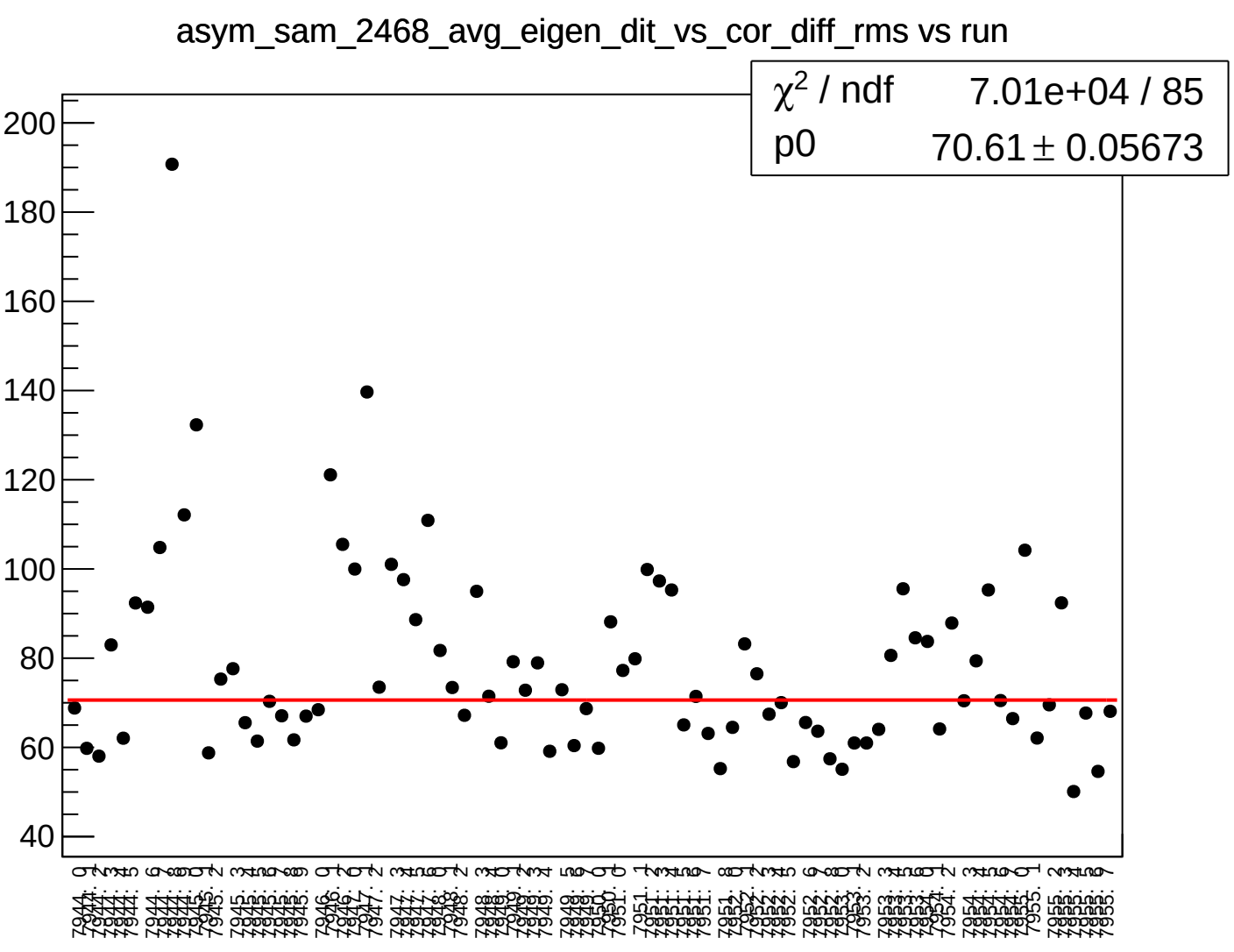

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.011e+04 / 85
p0 70.61 ± 0.05673
200
180
160
140
120
100
80
60
40

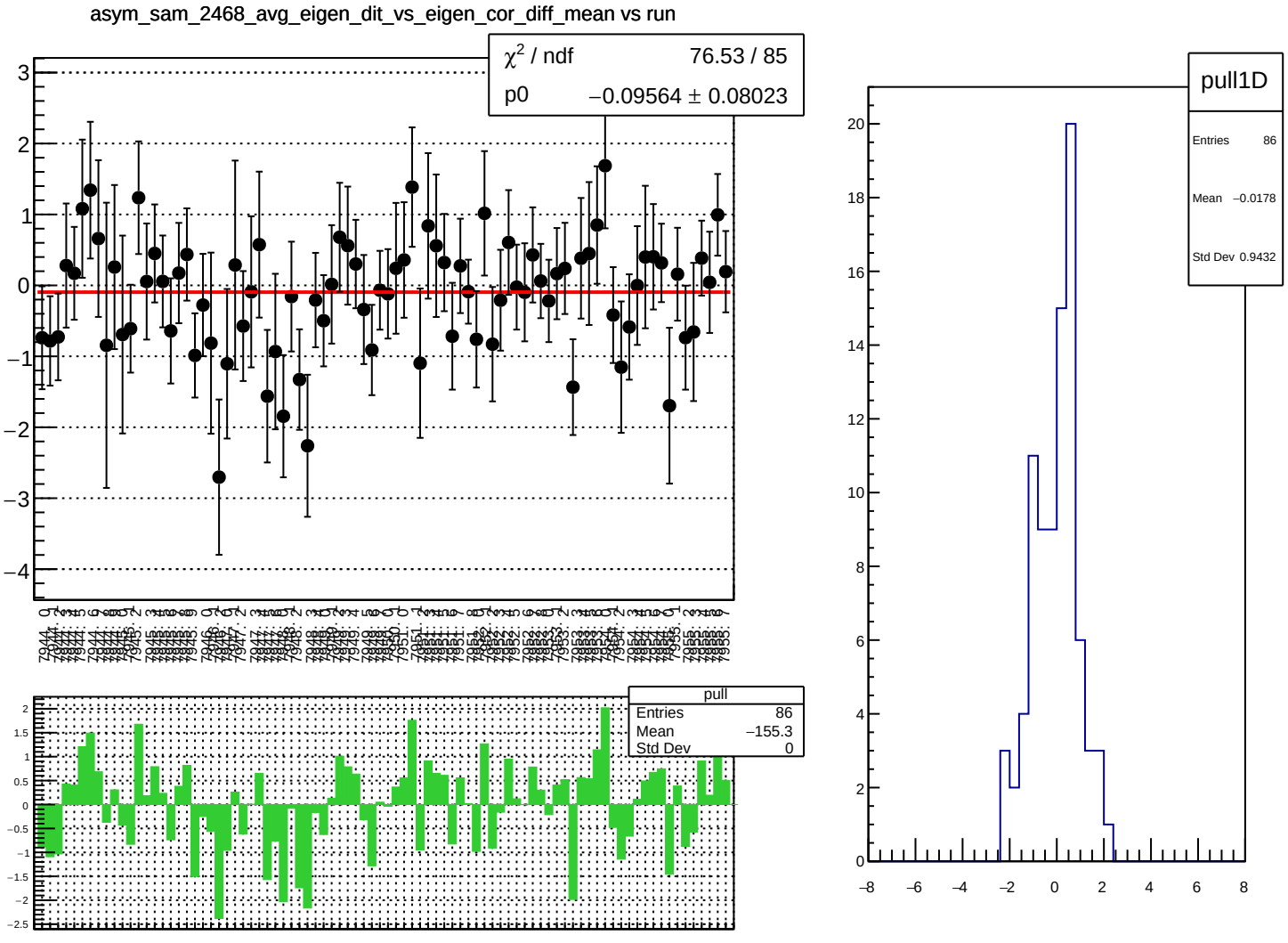

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.86 / 85
p0 4.37e−06 ± 4.471e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 637.1
Std Dev 0
3
2
1
0
−1
−2

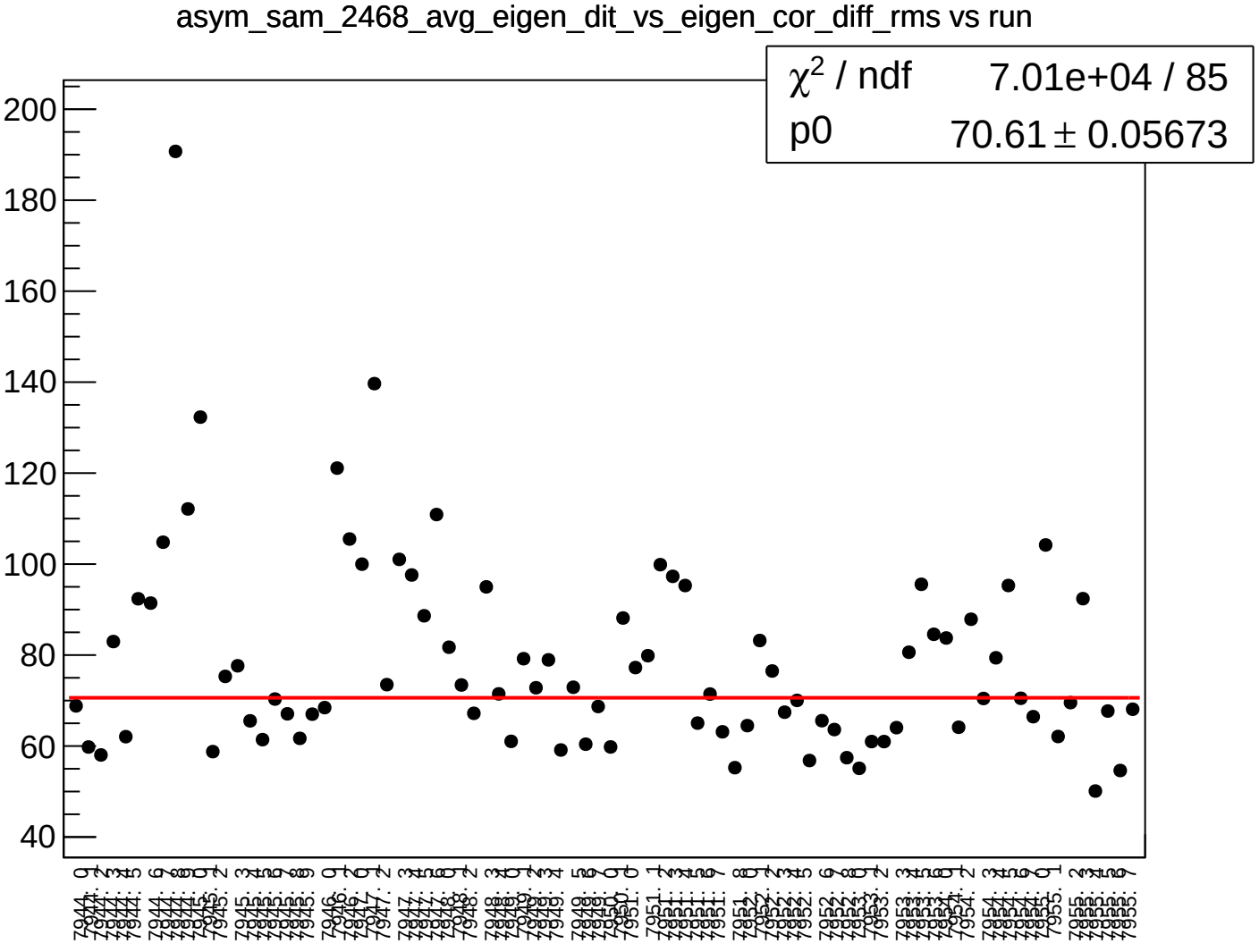

pull1D
Entries 86
Mean −0.006584
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

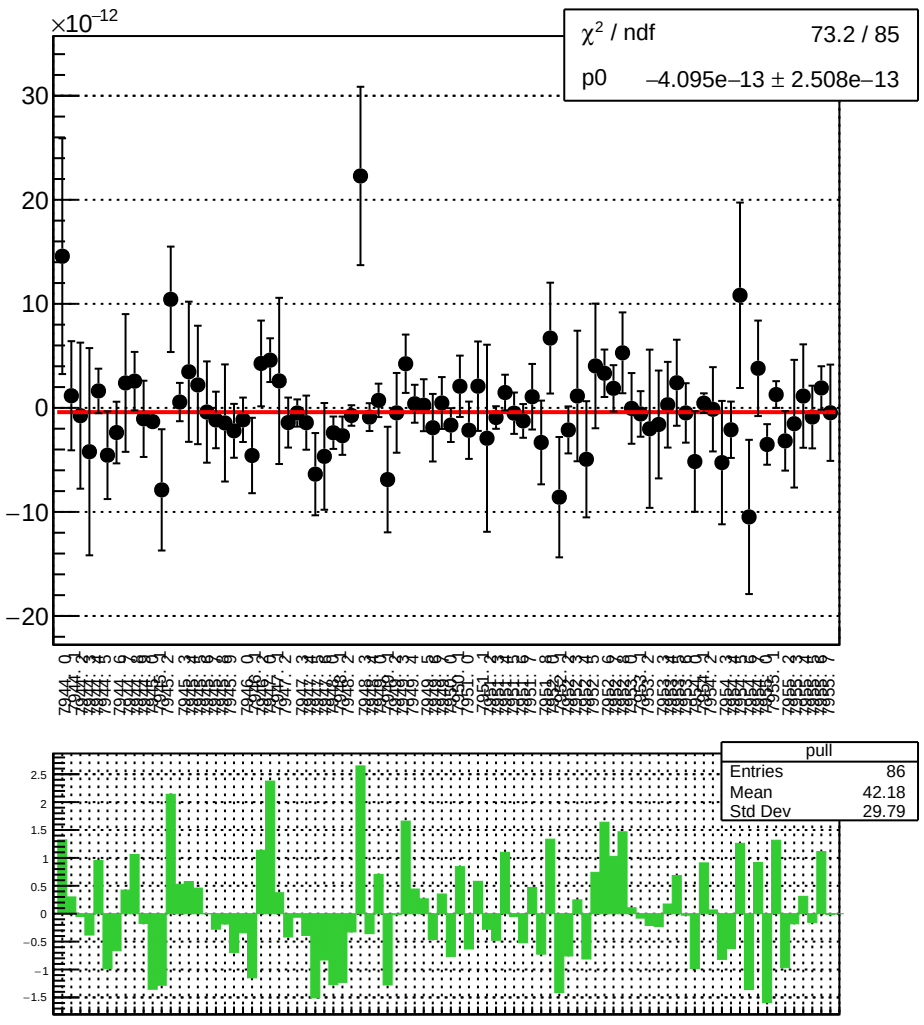

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1572 / 85
p0 0.004021 ± 3.162e−06
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037

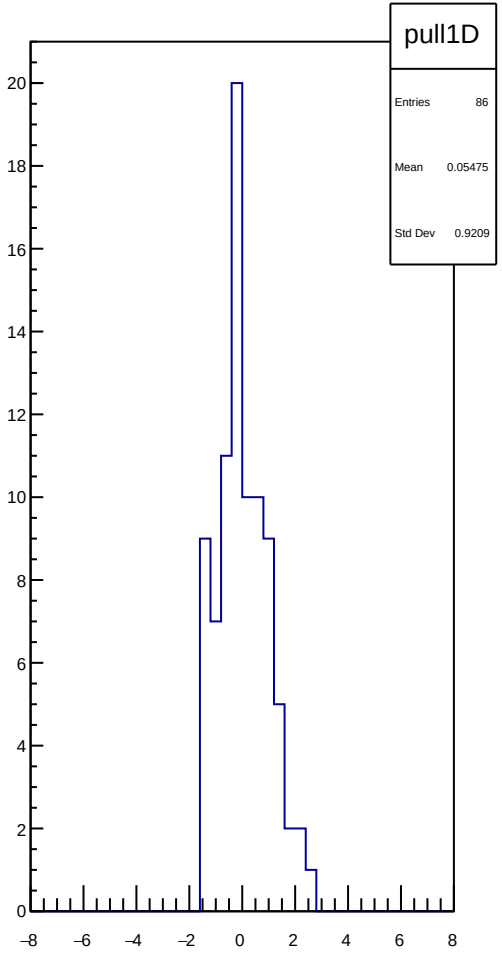

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.53 / 85
p0 −0.09564 ± 0.08023
pull
Entries 86
Mean −155.3
Std Dev 0
pull1D
Entries 86
Mean −0.0178
Std Dev 0.9432

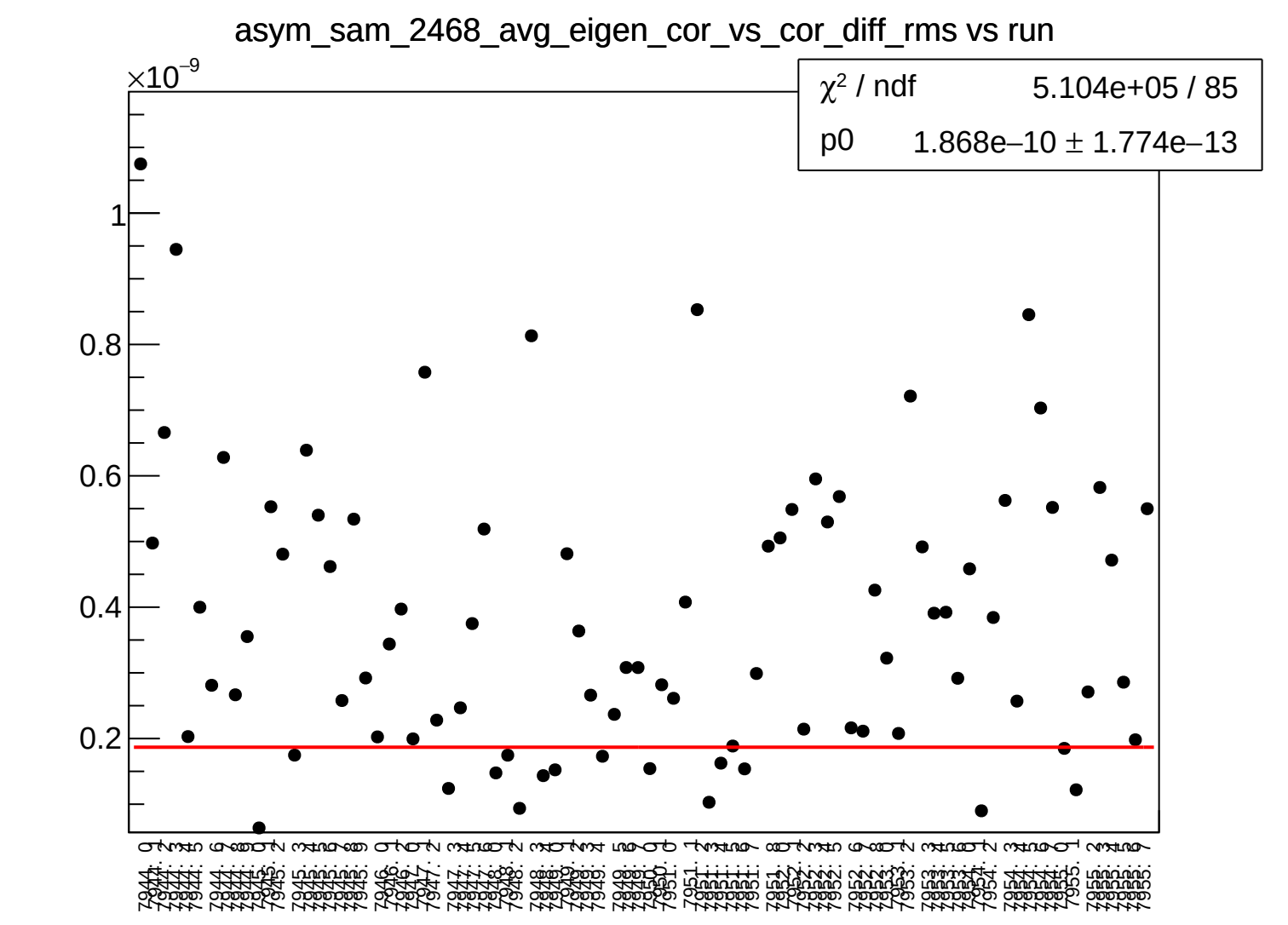

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.01e+04 / 85
p0 70.61 ± 0.05673
200
180
160
140
120
100
80
60
40

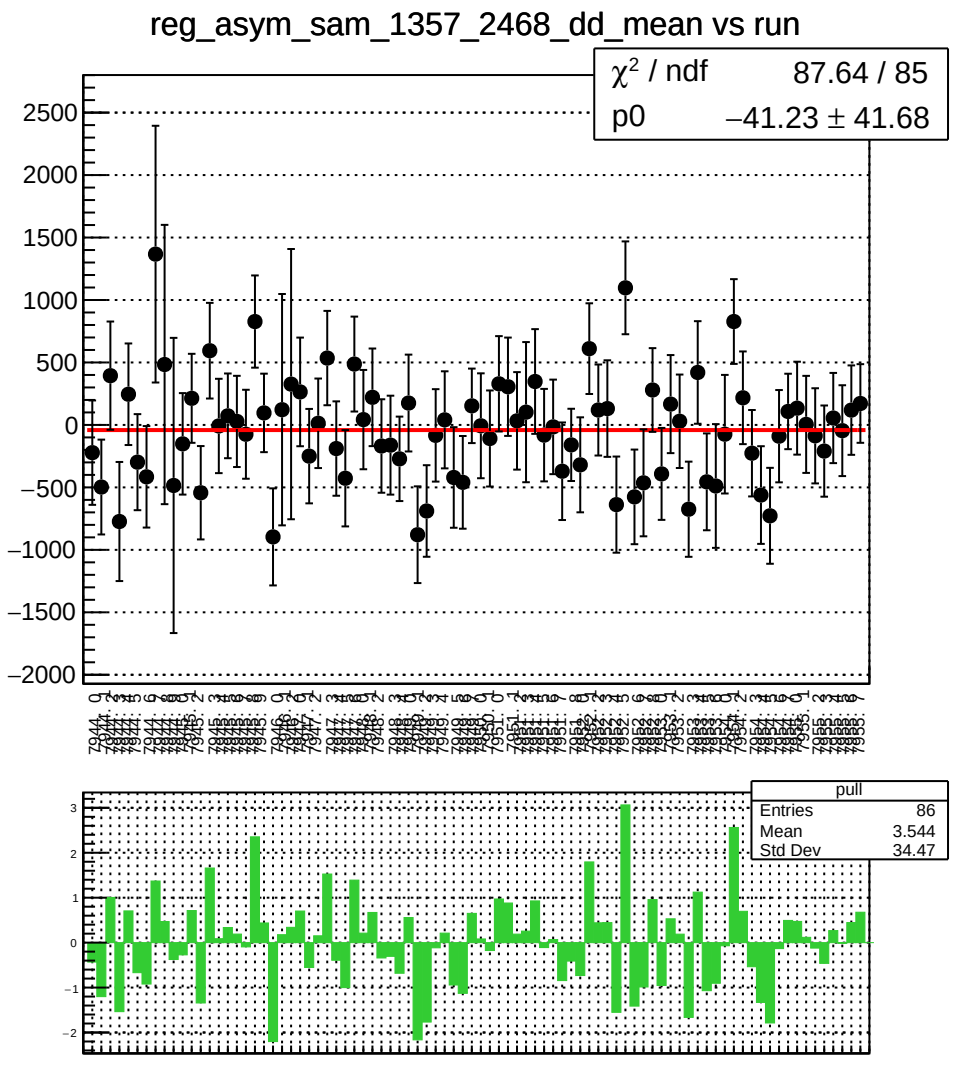

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.53 / 85
p0 −0.09564 ± 0.08023
pull
Entries 86
Mean −155.3
Std Dev 0
pull1D
Entries 86
Mean −0.0178
Std Dev 0.9432

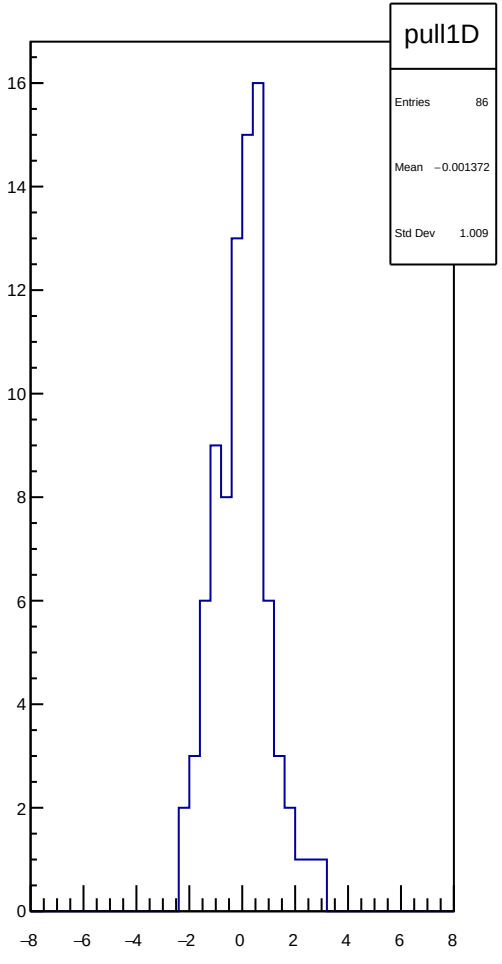

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.01e+04 / 85
p0 70.61 ± 0.05673
200
180
160
140
120
100
80
60
40

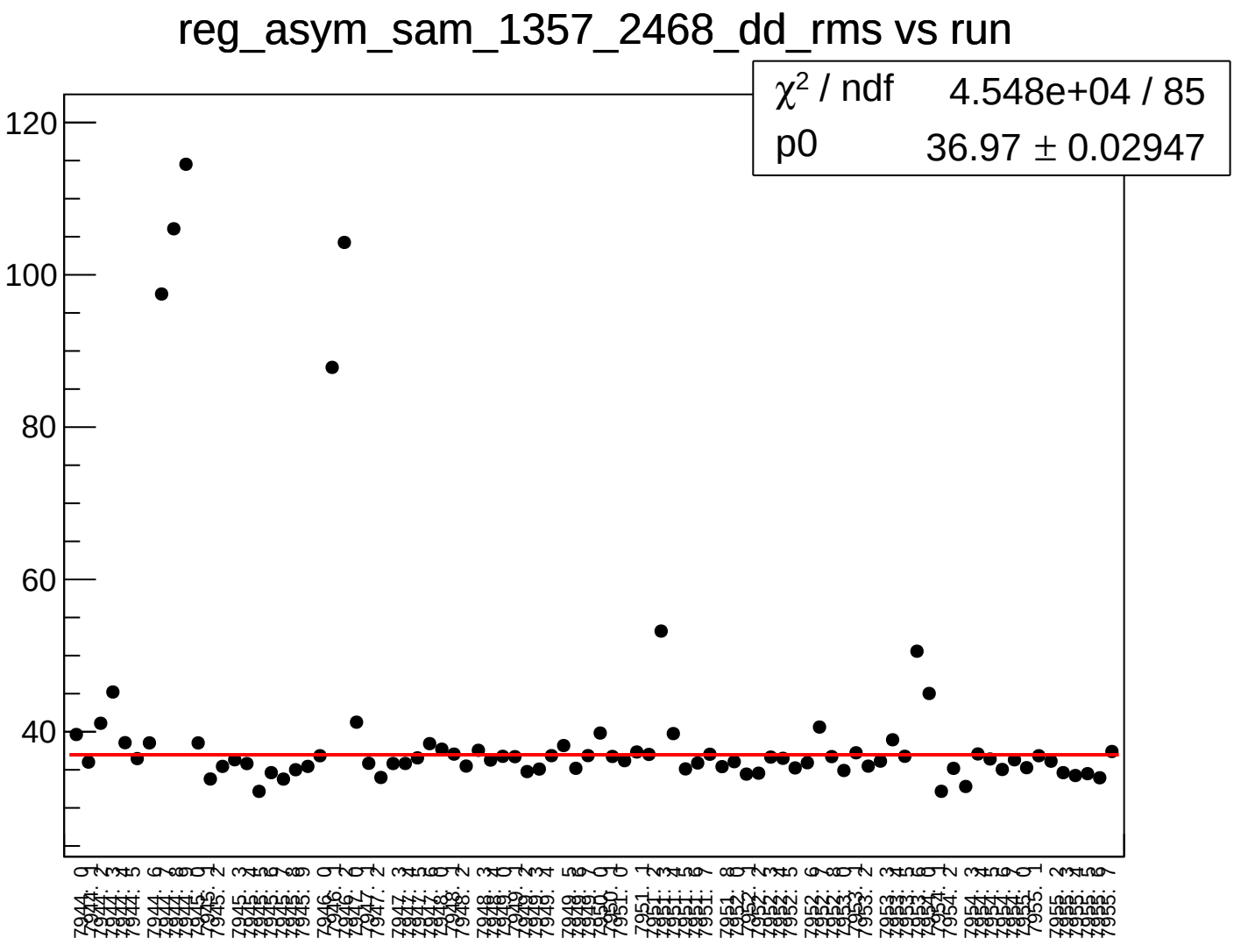

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.2 / 85
p0 −4.095e−13 ± 2.508e−13
pull
Entries 86
Mean 42.18
Std Dev 29.79

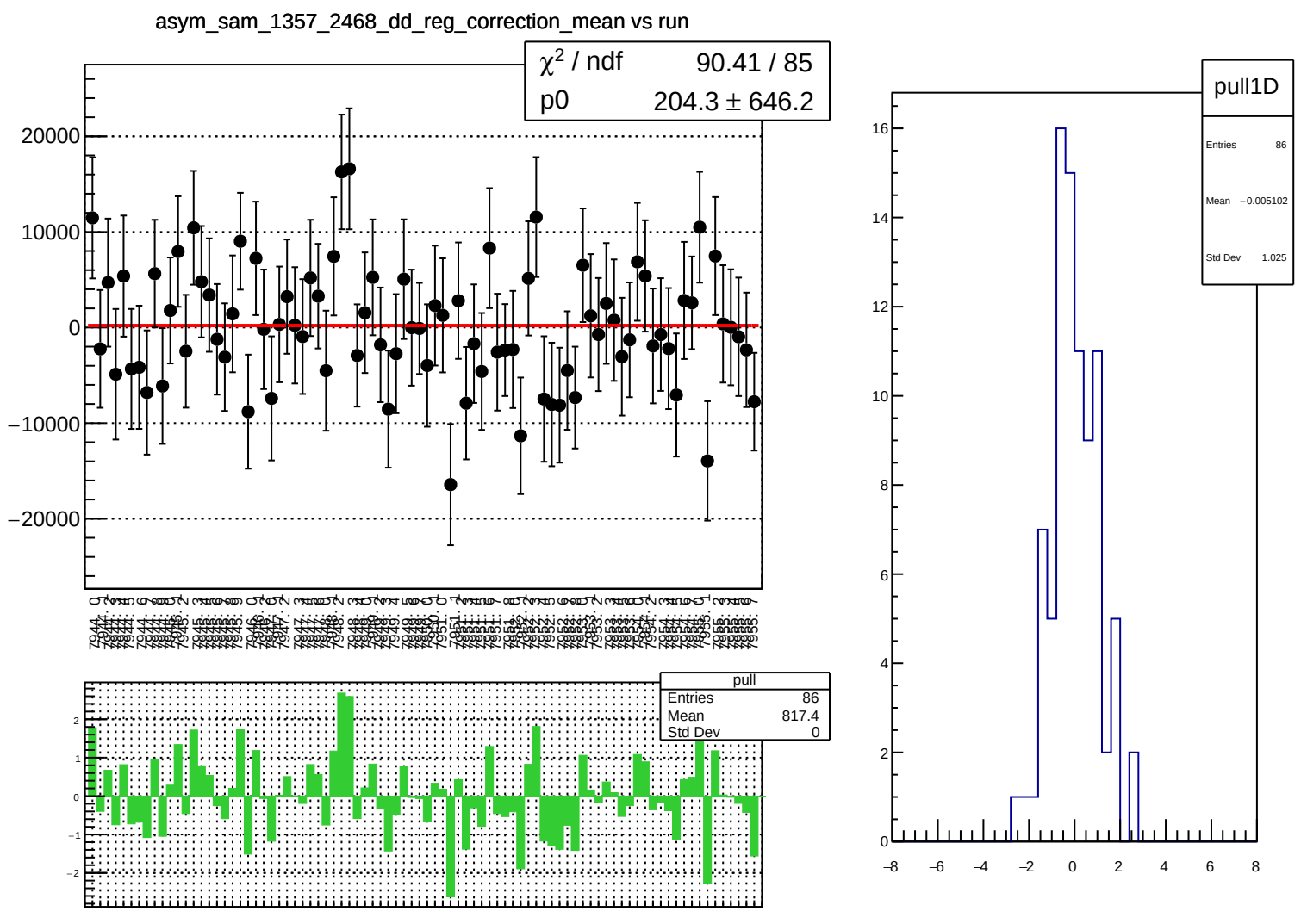

pull1D
Entries 86
Mean 0.05475
Std Dev 0.9209

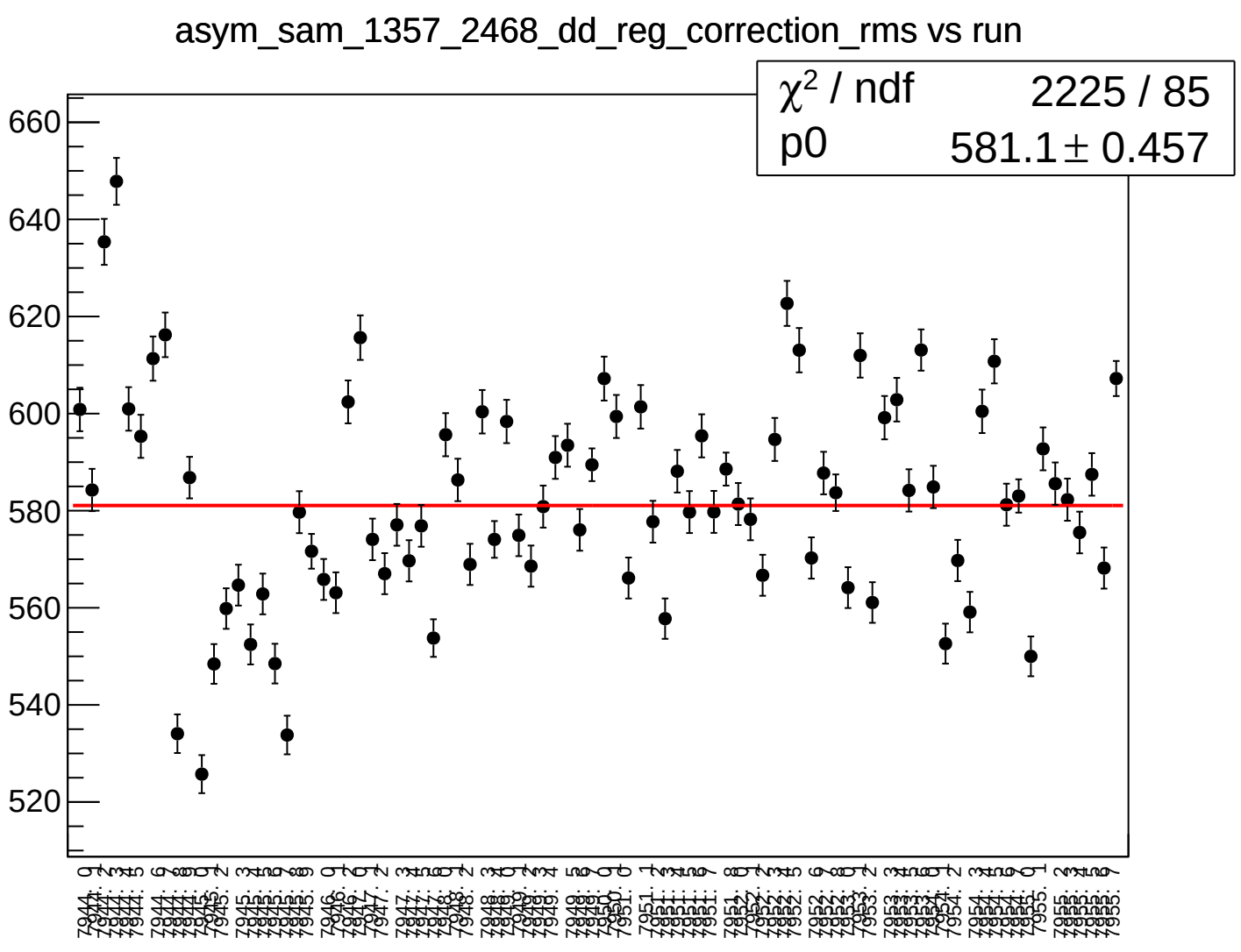

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.104e+05 / 85
p0 1.868e−10 ± 1.774e−13
1
0.8
0.6
0.4
0.2

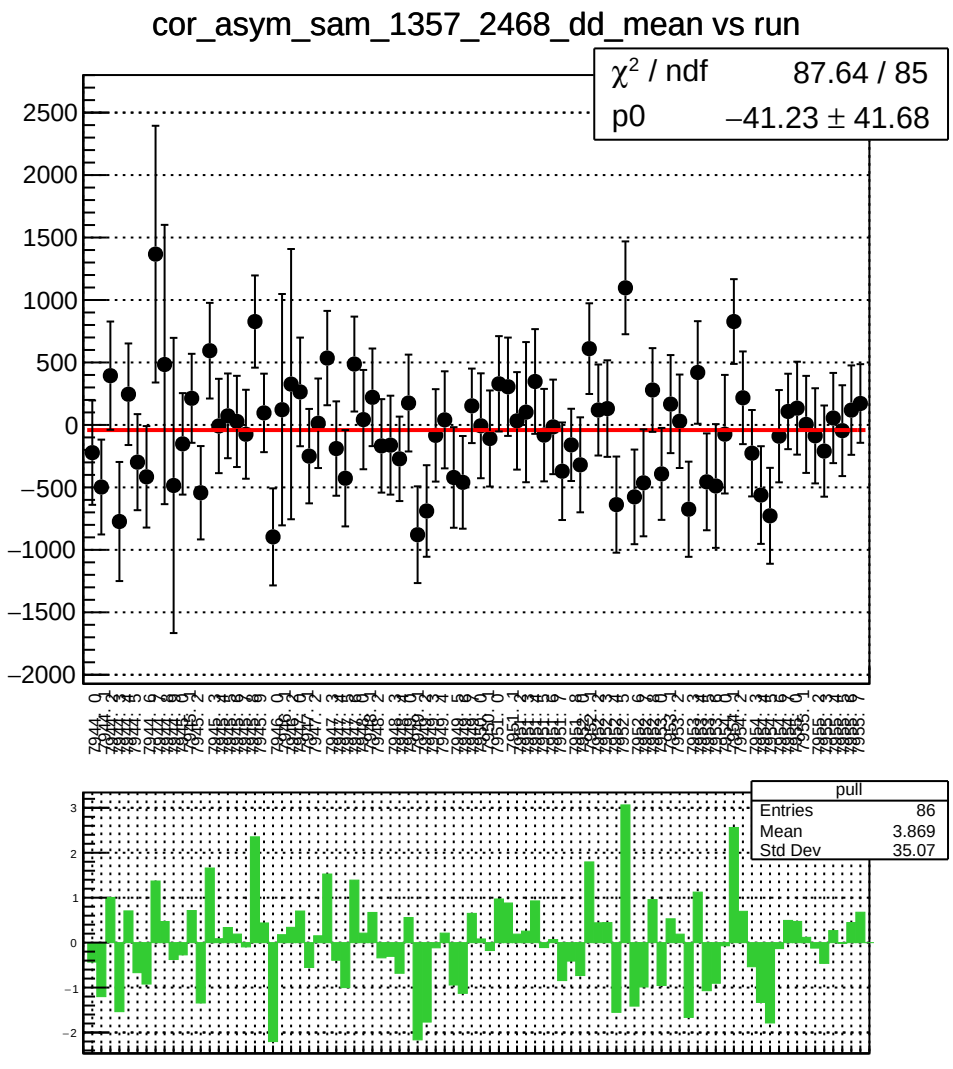

reg_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 87.64 / 85
p0 −41.23 ± 41.68
pull
Entries 86
Mean 3.544
Std Dev 34.47

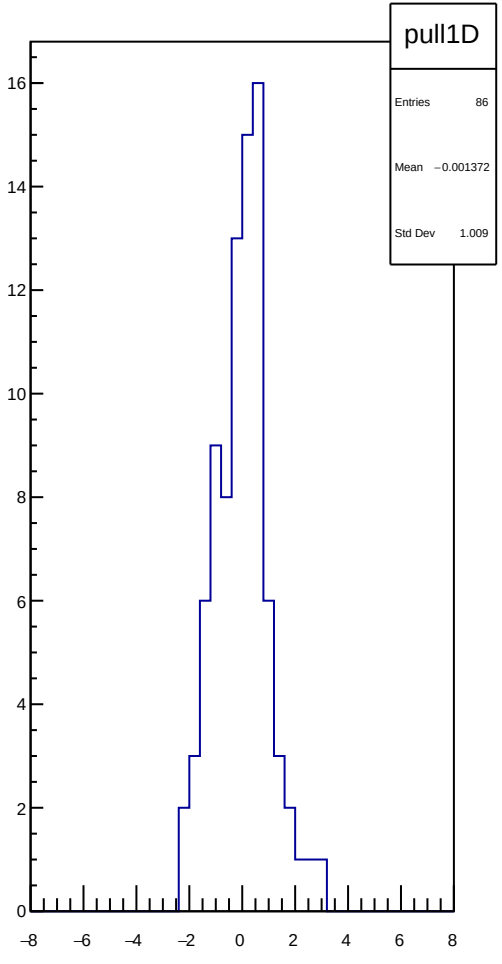

pull1D
Entries 86
Mean −0.001372
Std Dev 1.009

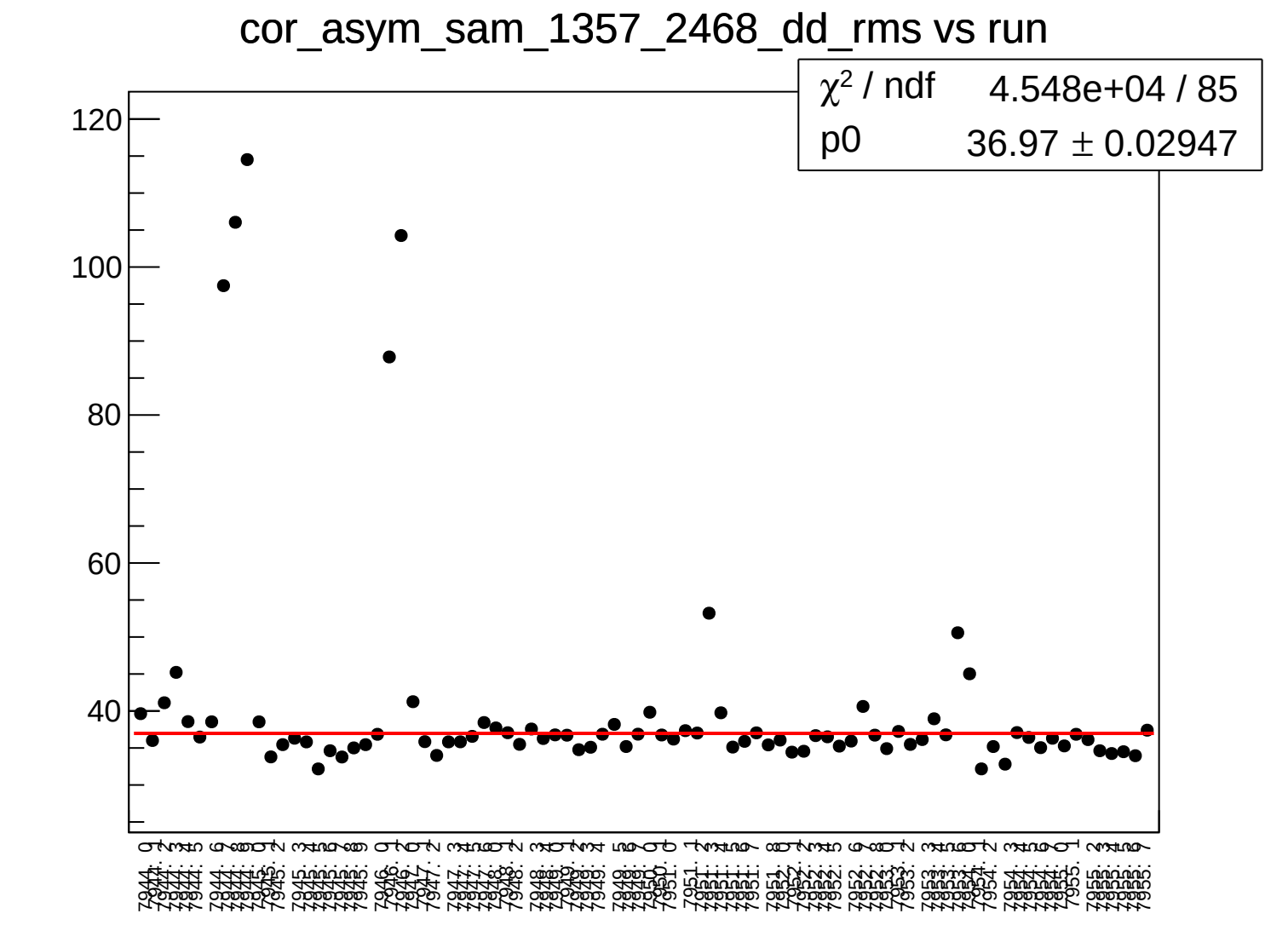

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.548e+04 / 85
p0 36.97 ± 0.02947
120
100
80
60
40

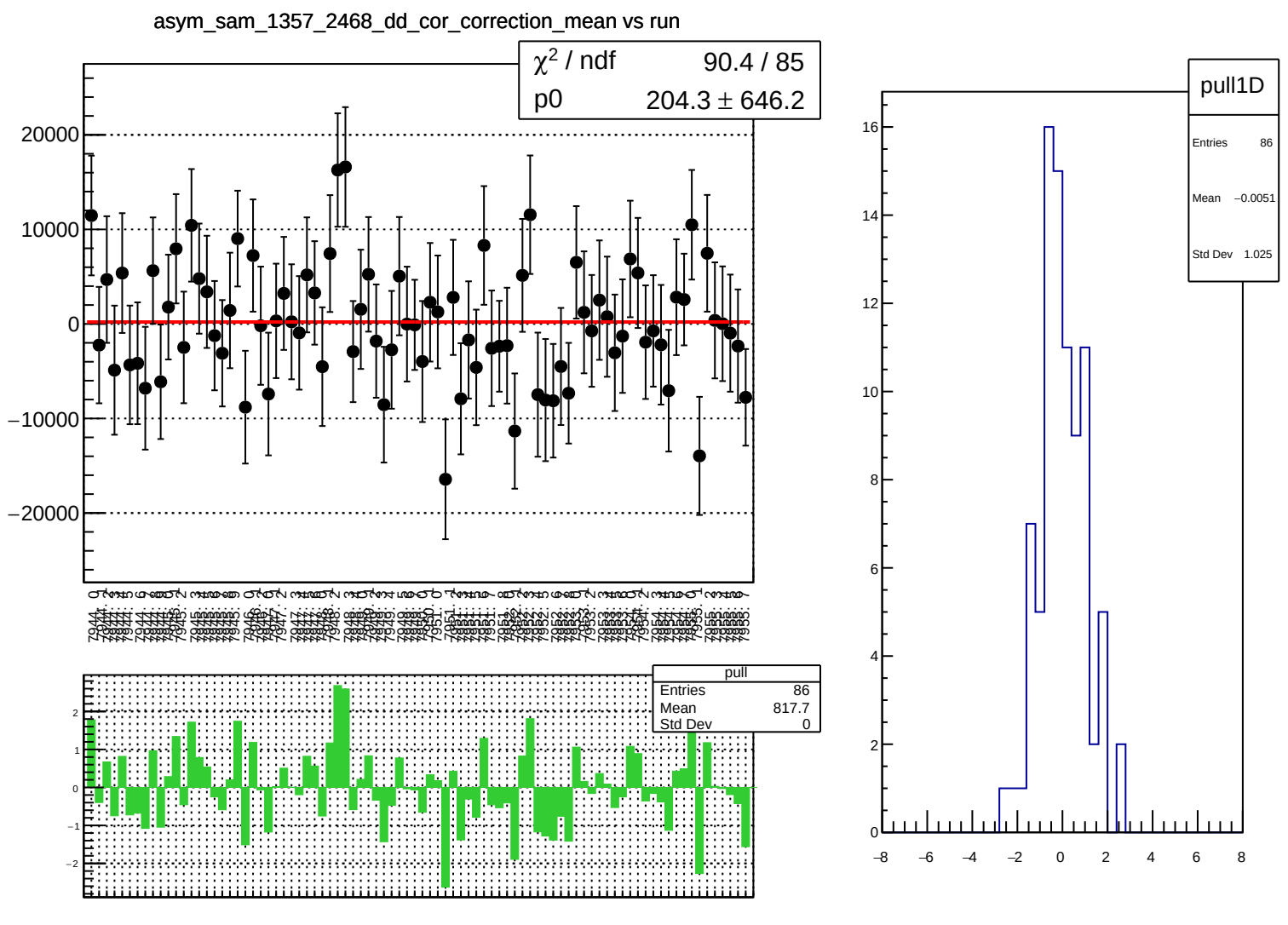

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 90.41 / 85
p0 204.3 ± 646.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 817.4
Std Dev 0
pull1D
Entries 86
Mean −0.005102
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

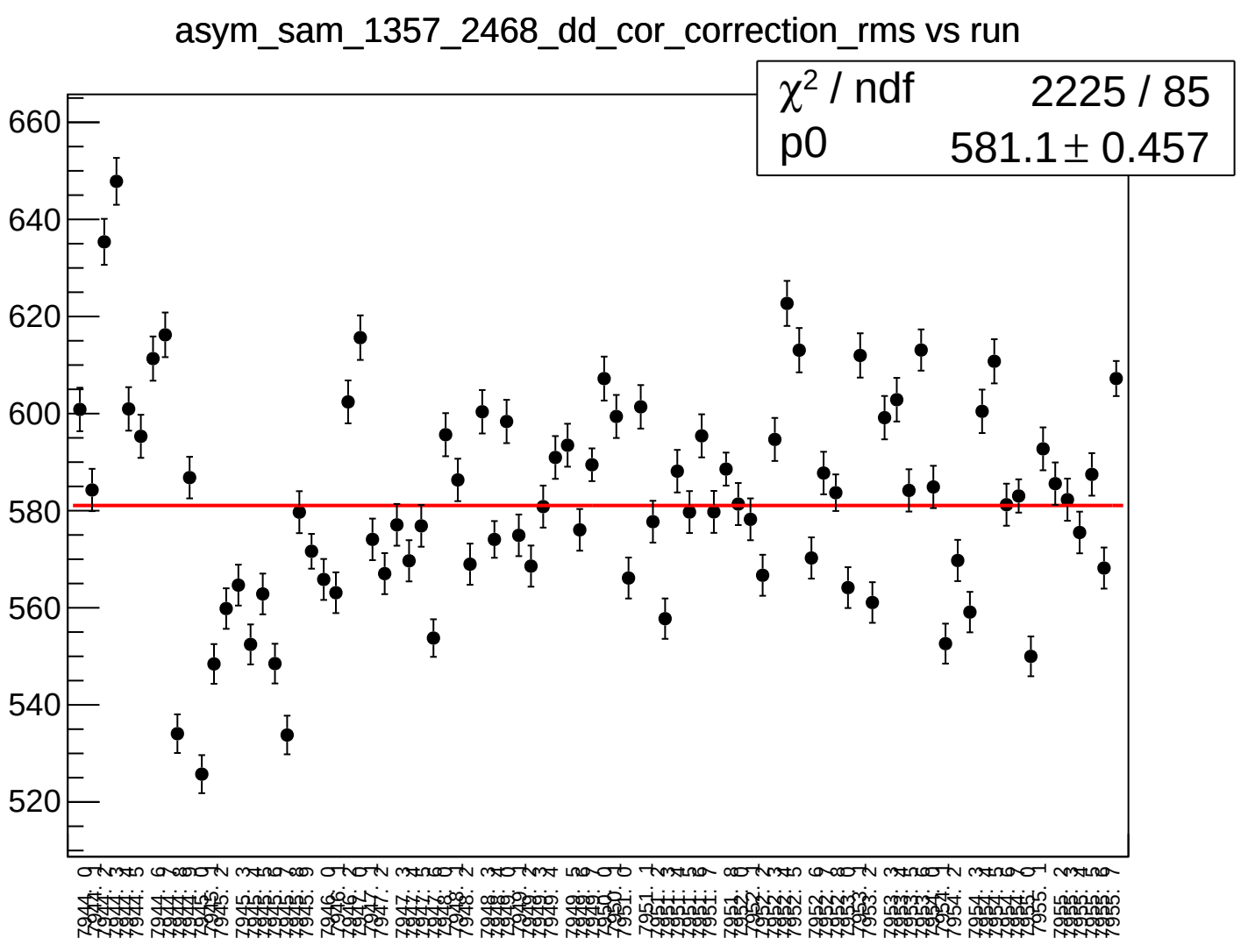

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2225 / 85
p0 581.1 ± 0.457
660
640
620
600
580
560
540
520

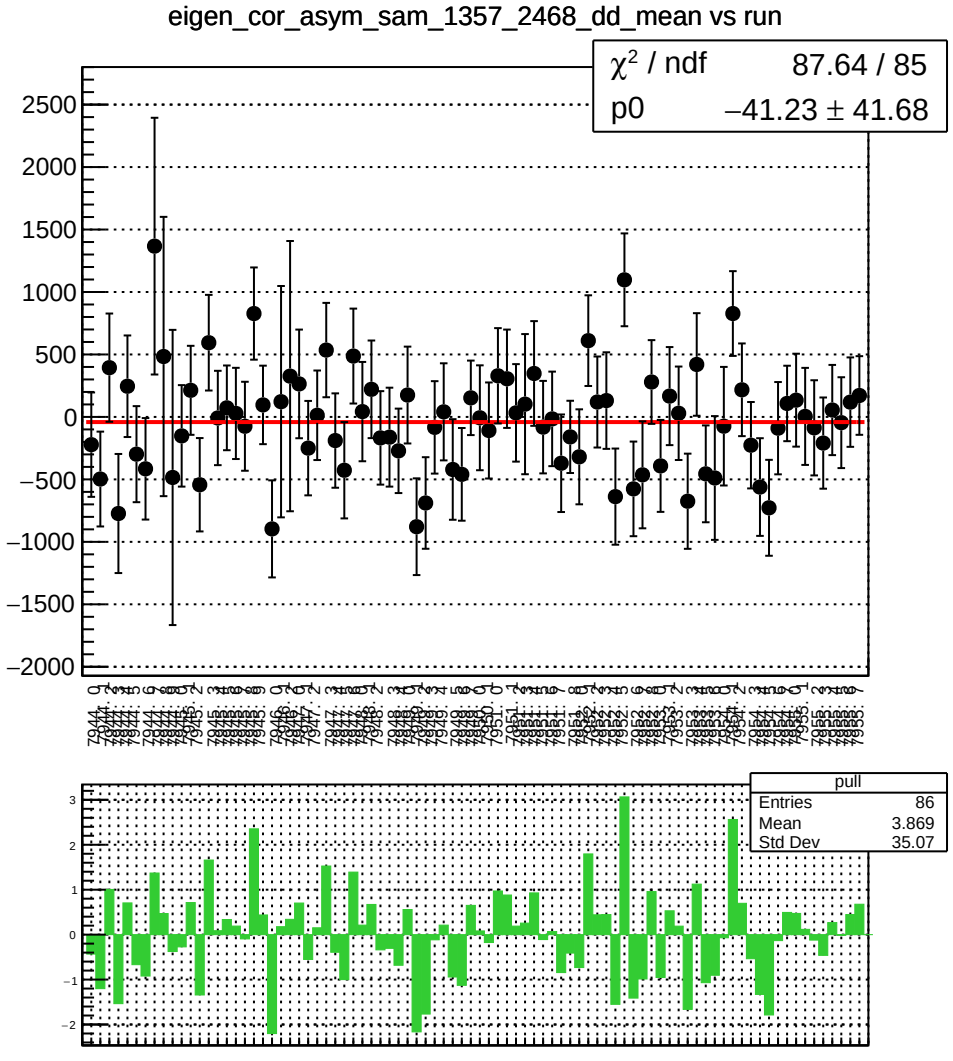

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 87.64 / 85
p0 −41.23 ± 41.68
pull
Entries 86
Mean 3.869
Std Dev 35.07

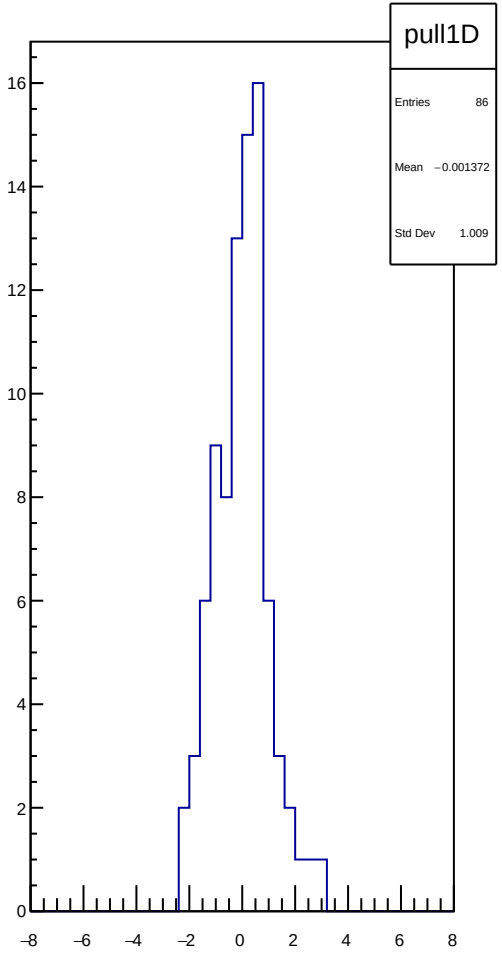

pull1D
Entries 86
Mean −0.001372
Std Dev 1.009

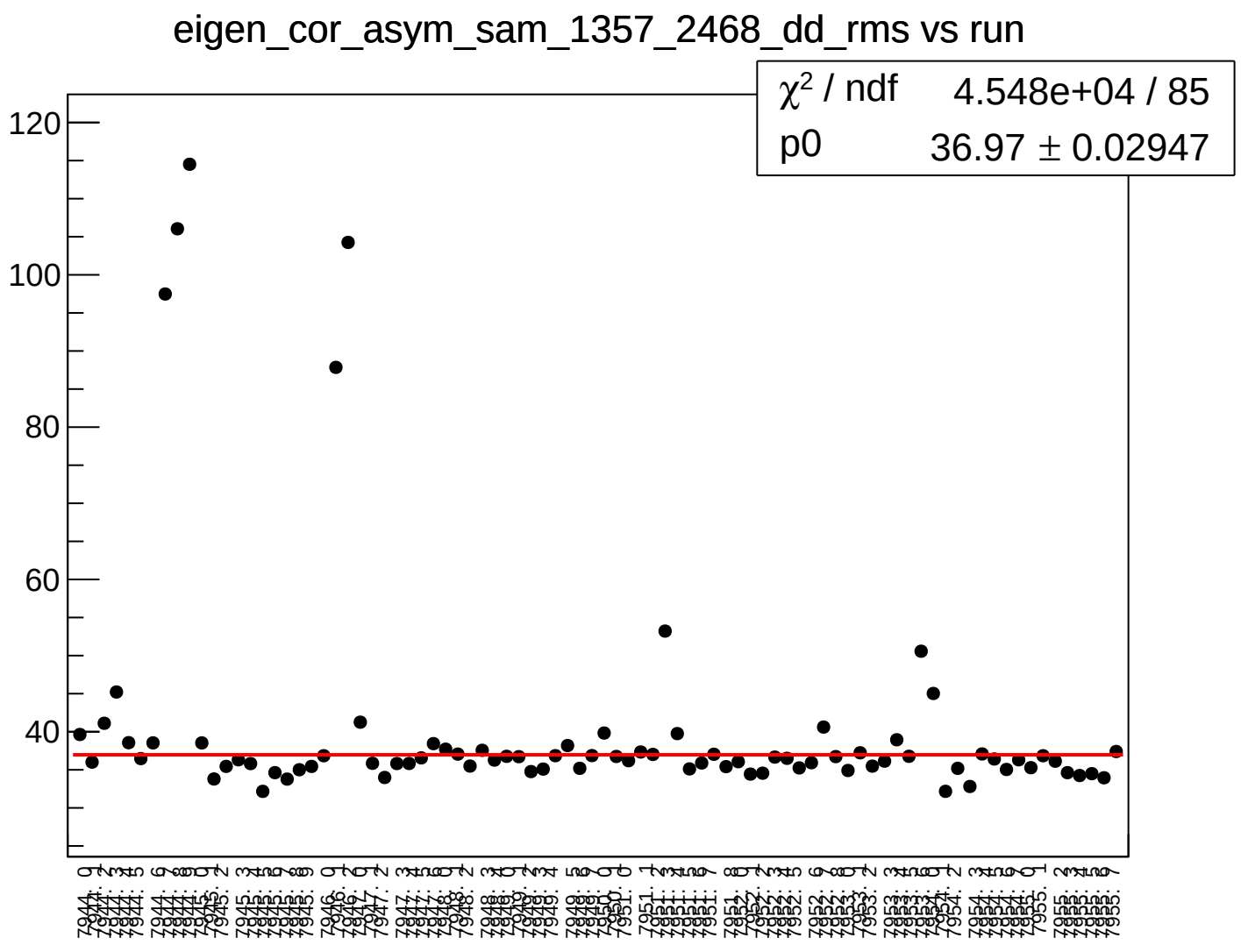

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.548e+04 / 85
p0 36.97 ± 0.02947
120
100
80
60
40

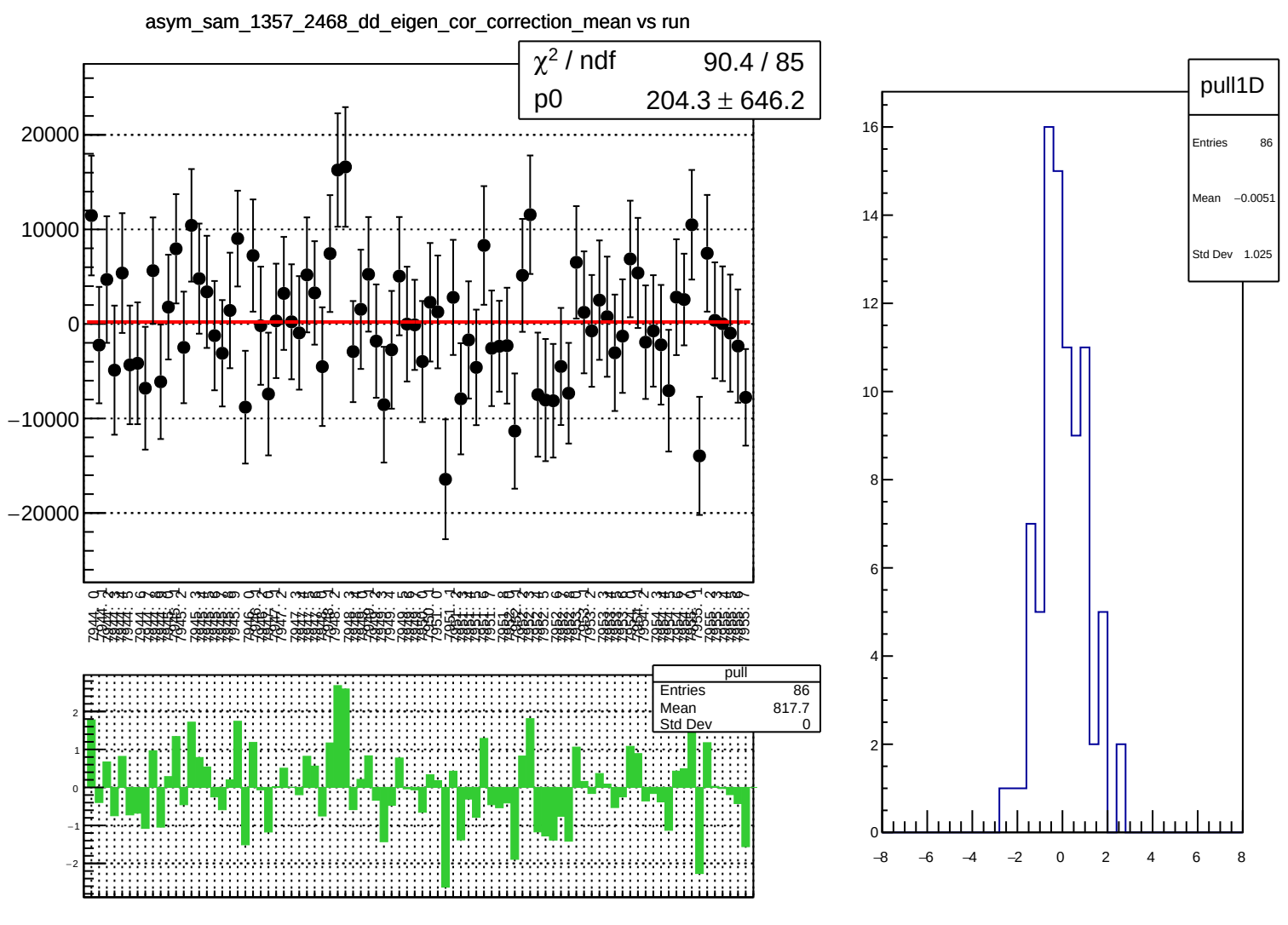

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 90.4 / 85
p0 204.3 ± 646.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 817.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.0051
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

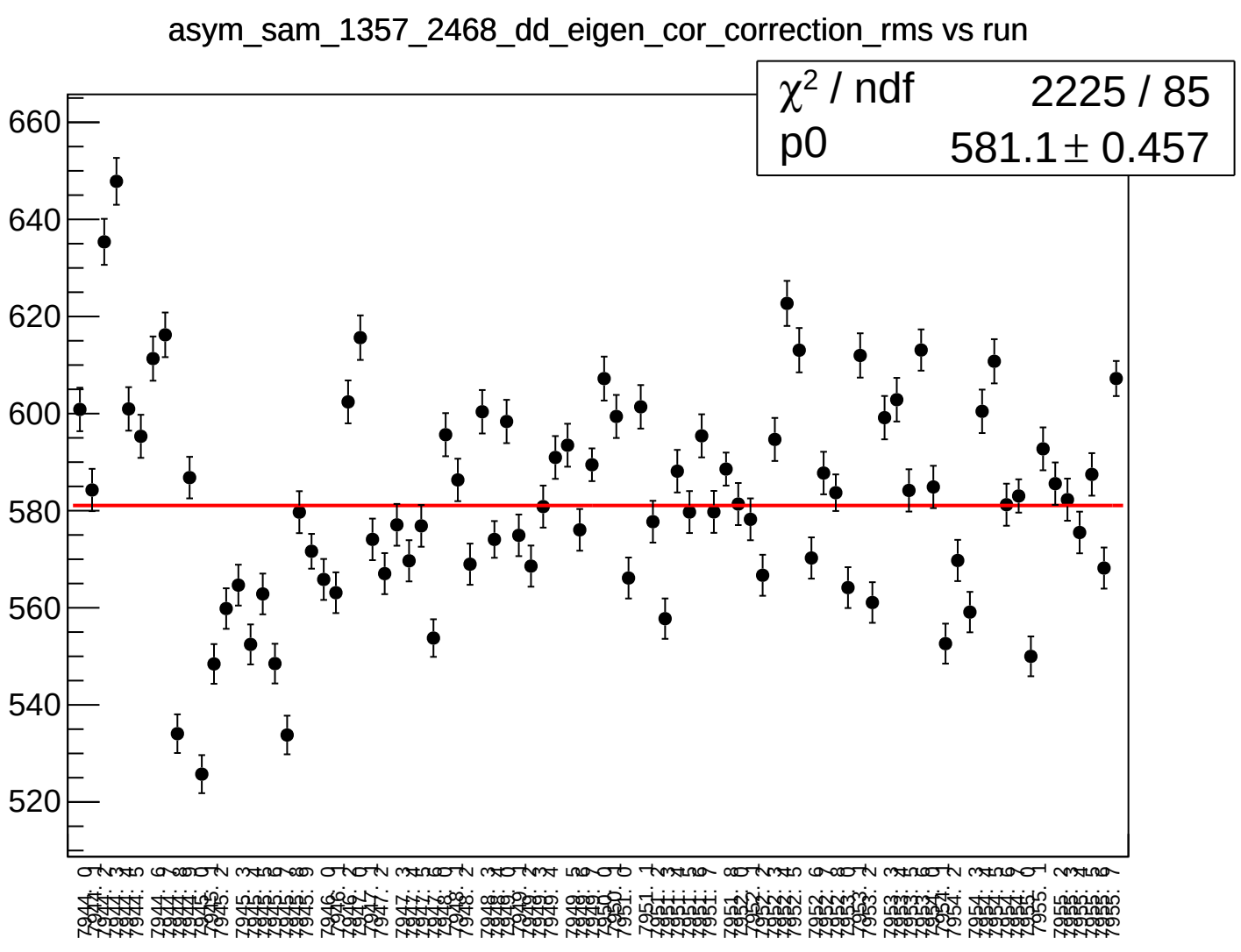

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2225 / 85
p0 581.1 ± 0.457
660
640
620
600
580
560
540
520

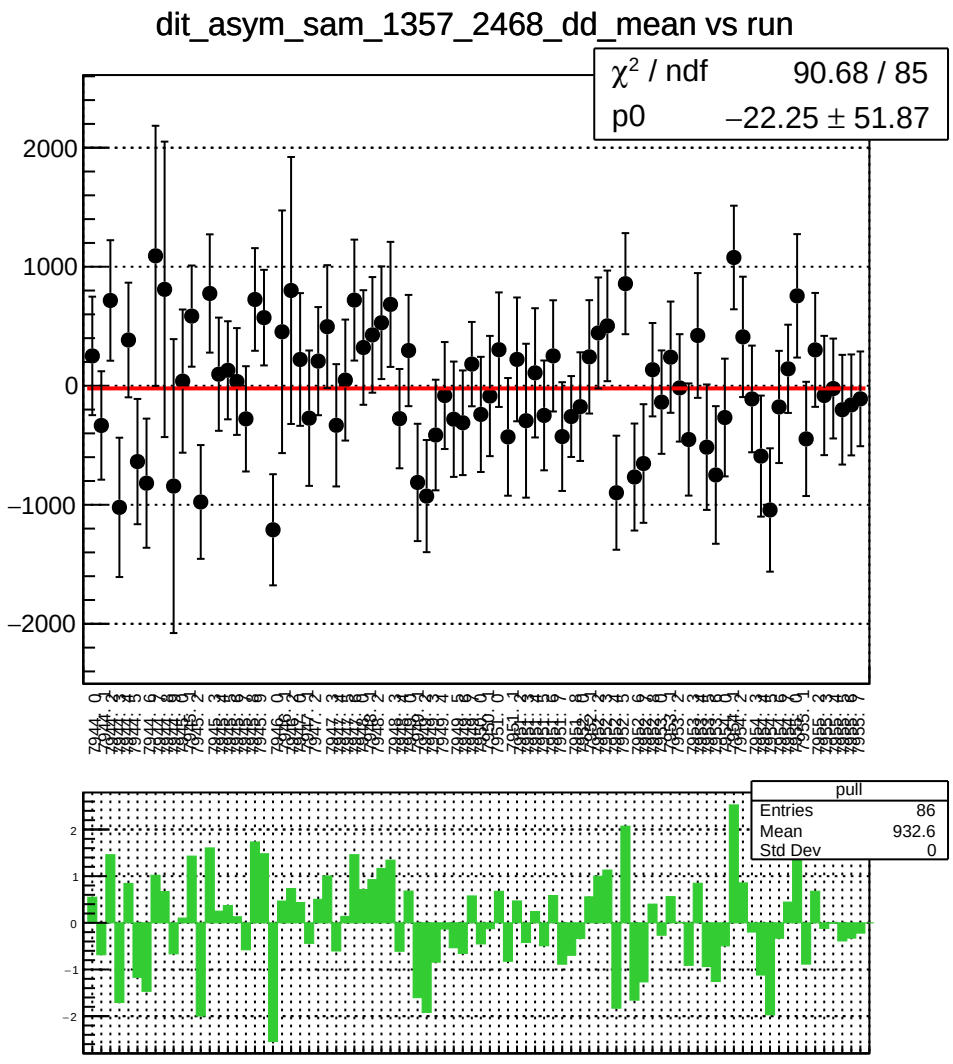

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 87.64 / 85
p0 −41.23 ± 41.68
pull
Entries 86
Mean 3.869
Std Dev 35.07

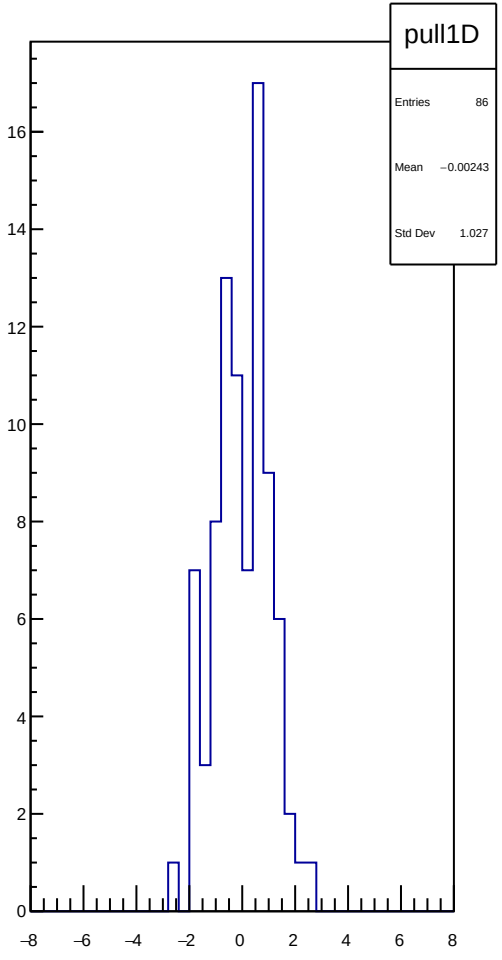

pull1D
Entries 86
Mean −0.001372
Std Dev 1.009

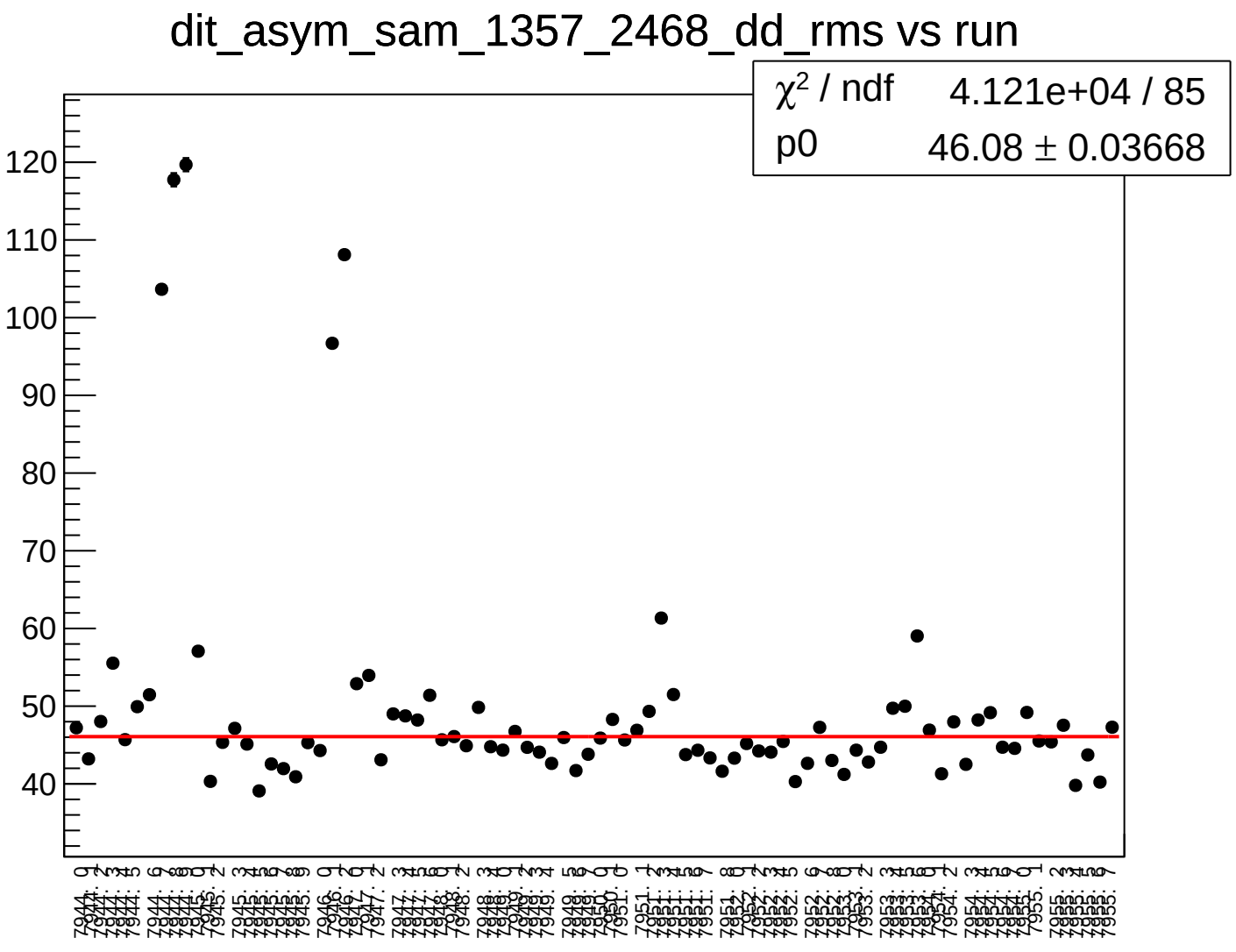

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.548e+04 / 85
p0 36.97 ± 0.02947
120
100
80
60
40

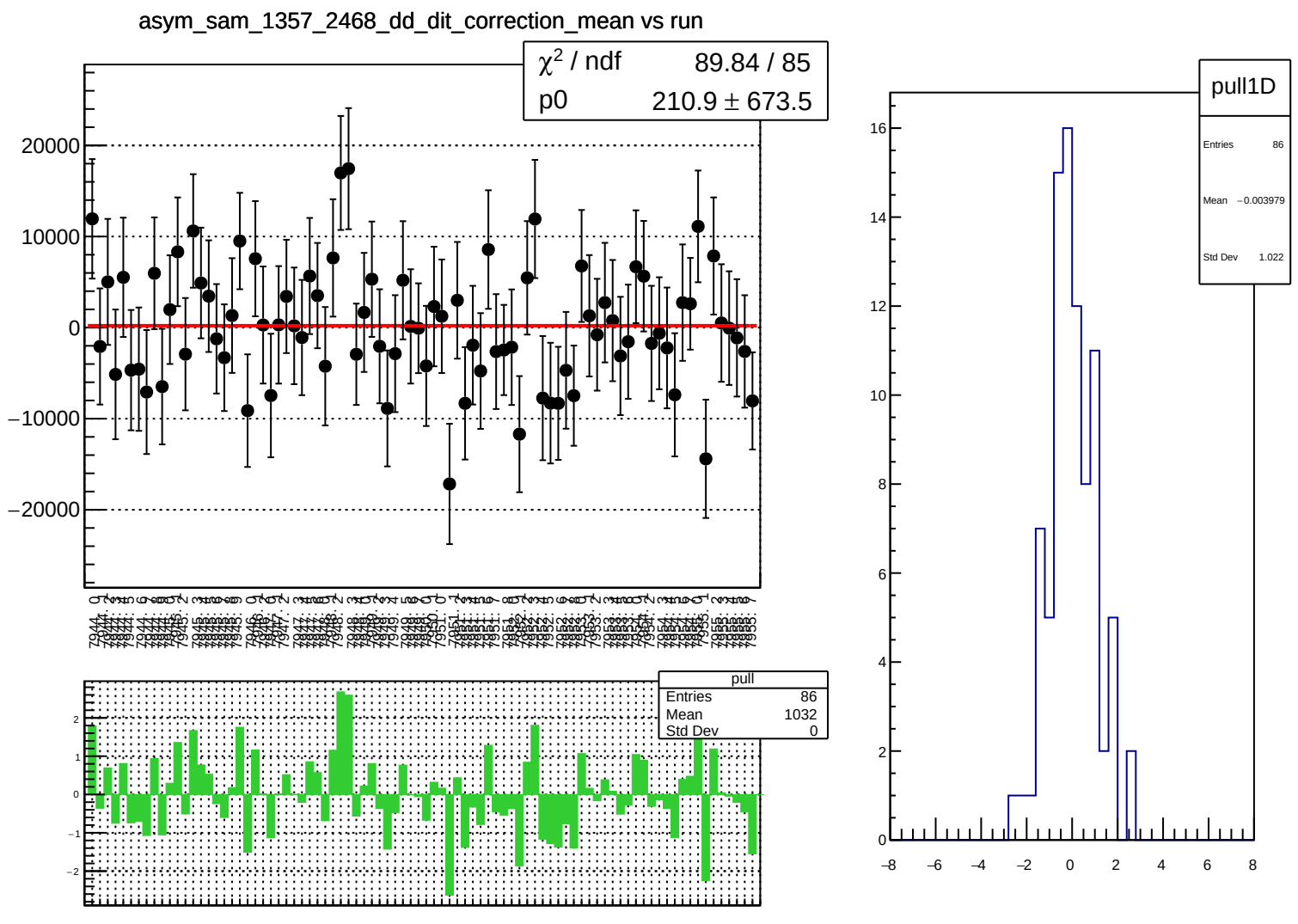

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.4 / 85
p0 204.3 ± 646.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 817.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.0051
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

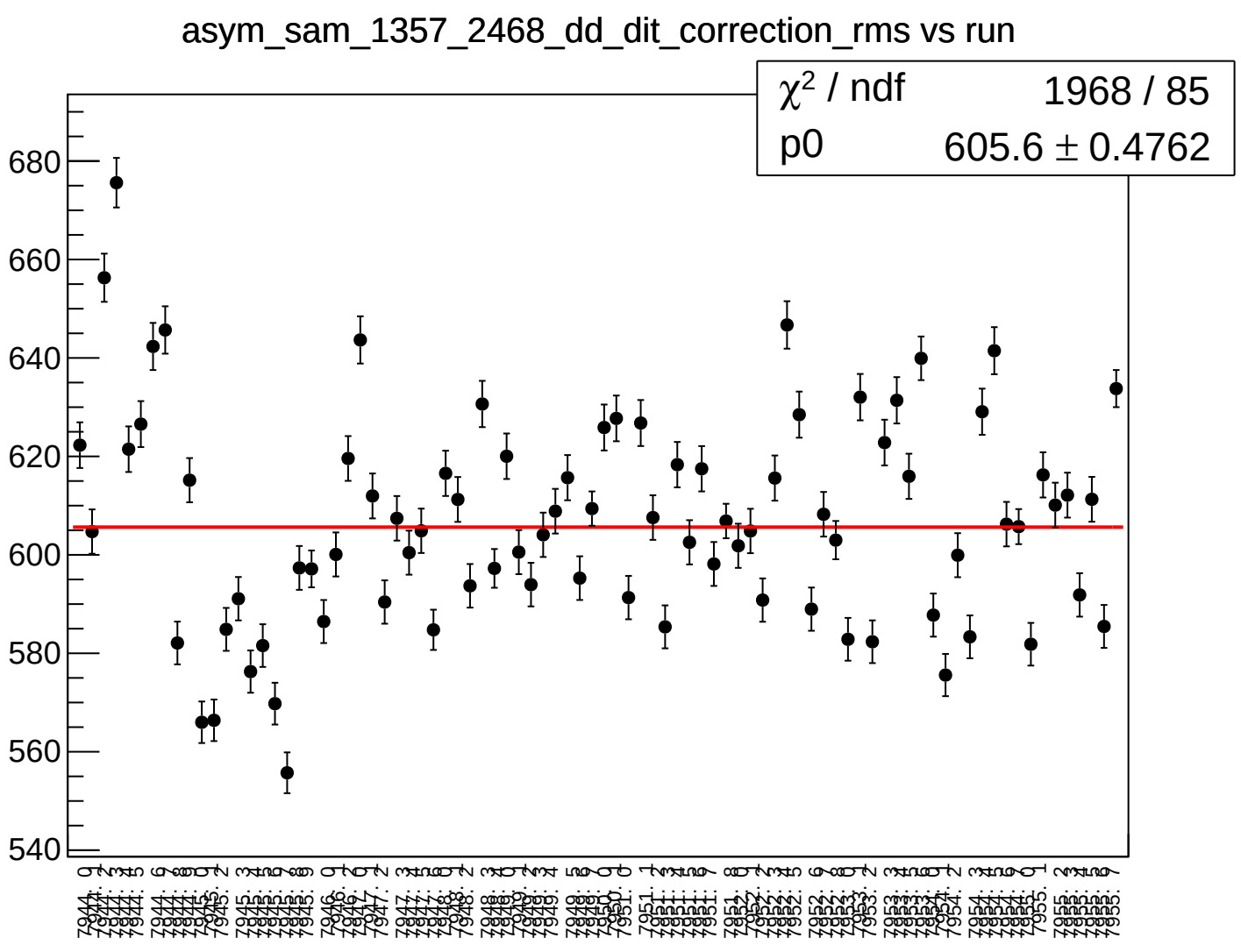

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2225 / 85
p0 581.1 ± 0.457
660
640
620
600
580
560
540
520

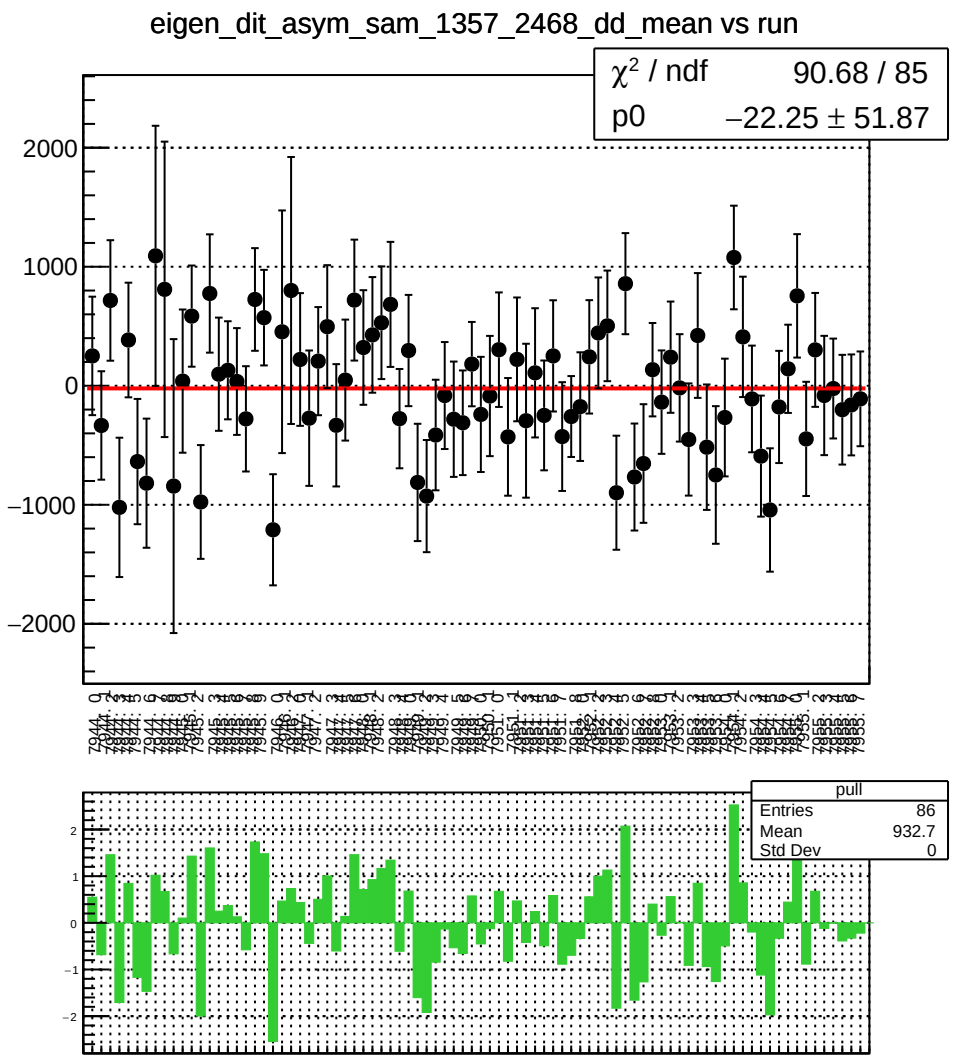

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.68 / 85
p0 −22.25 ± 51.87
pull
Entries 86
Mean 932.6
Std Dev 0

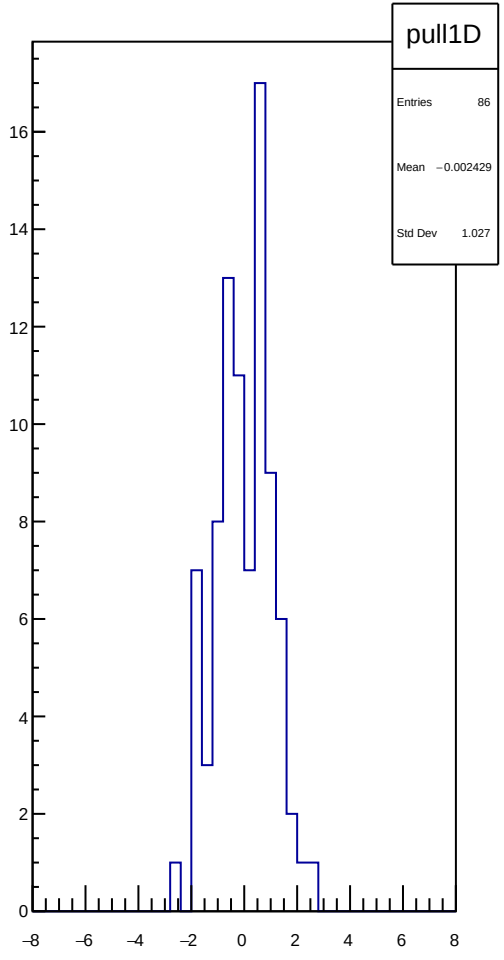

pull1D
Entries 86
Mean −0.00243
Std Dev 1.027

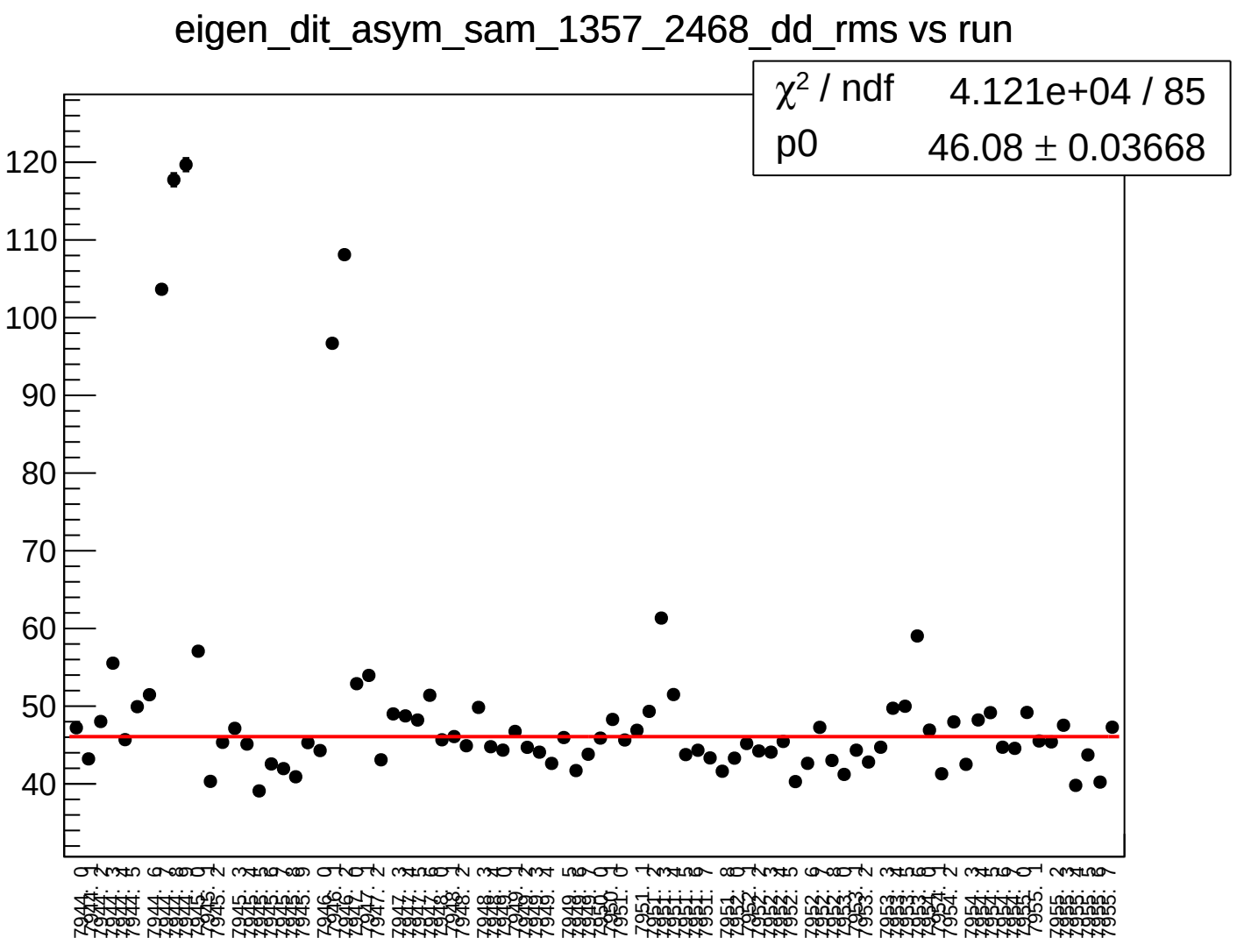

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.121e+04 / 85
p0 46.08 ± 0.03668
120
110
100
90
80
70
60
50
40

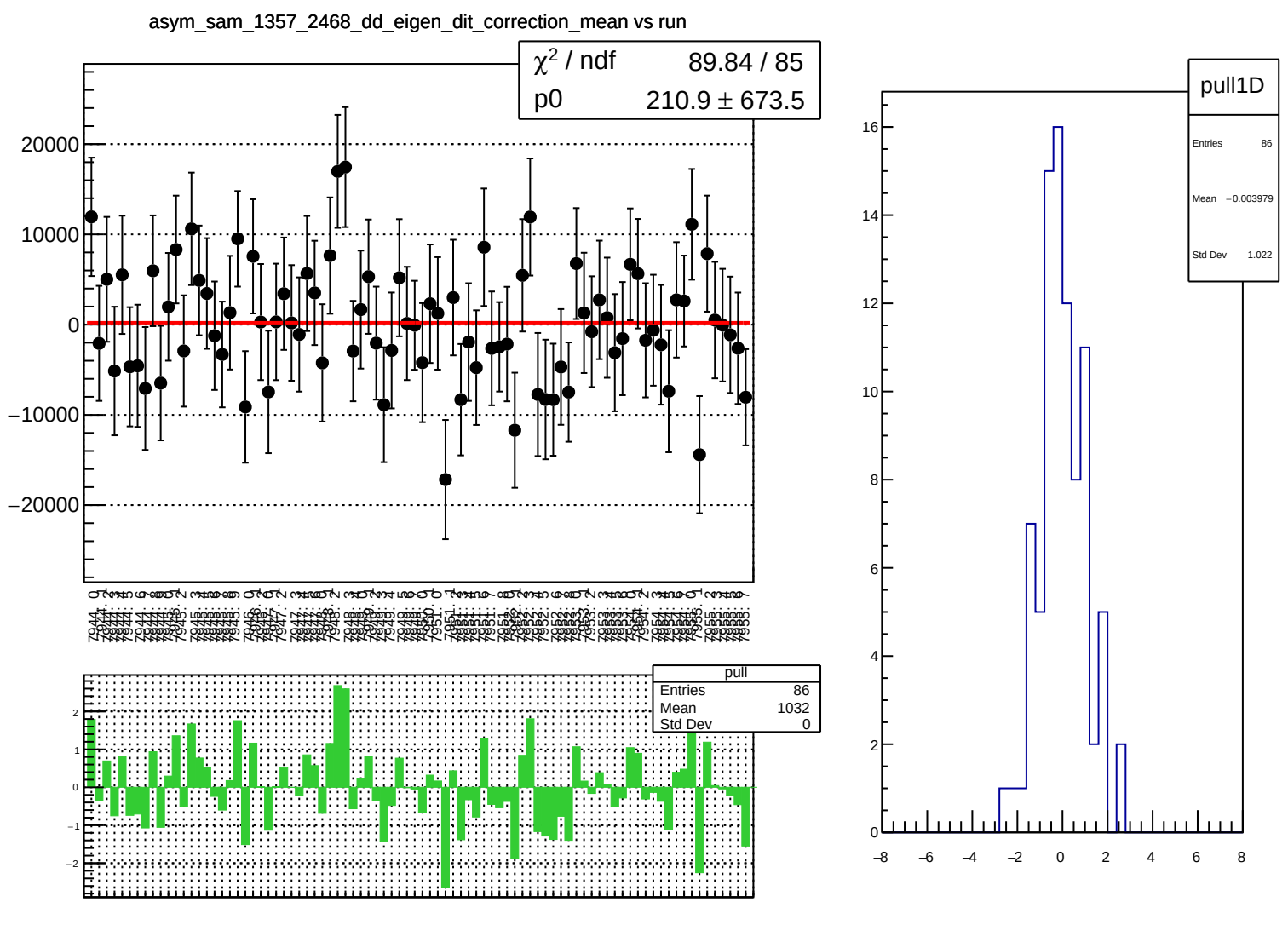

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 89.84 / 85
p0 210.9 ± 673.5
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 1032
Std Dev 0
pull1D
Entries 86
Mean −0.003979
Std Dev 1.022

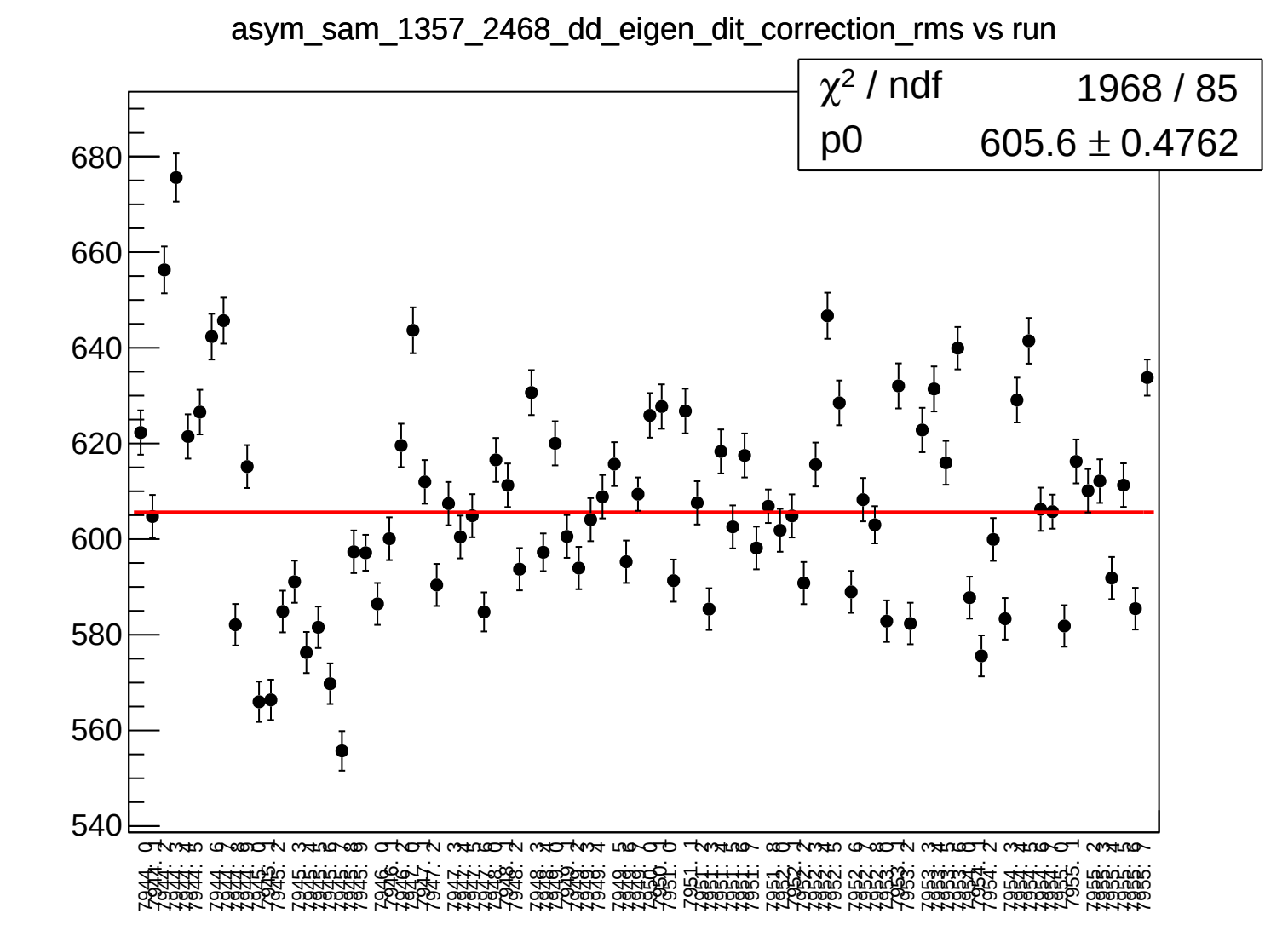

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1968 / 85
p0 605.6 ± 0.4762
680
660
640
620
600
580
560
540

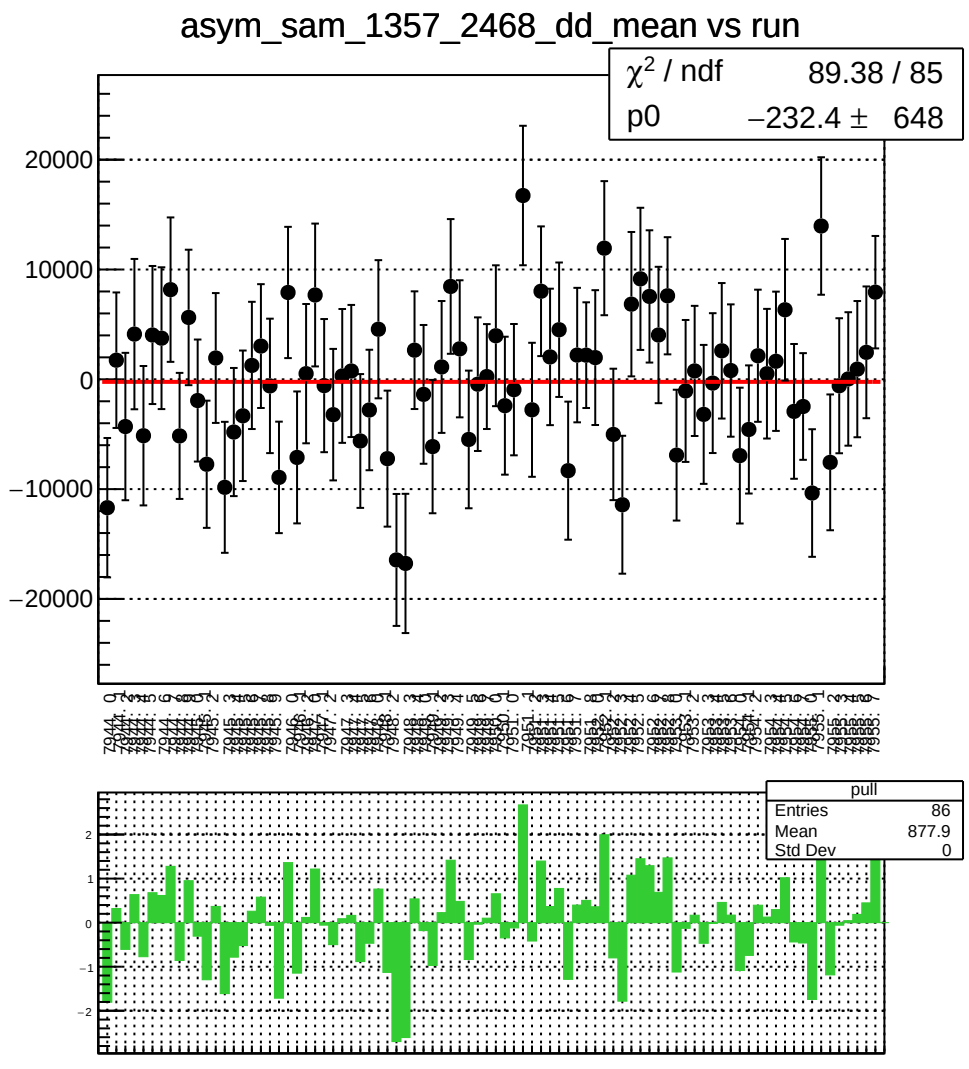

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.68 / 85
p0 −22.25 ± 51.87
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 932.7
Std Dev 0
2
1
0
−1
−2

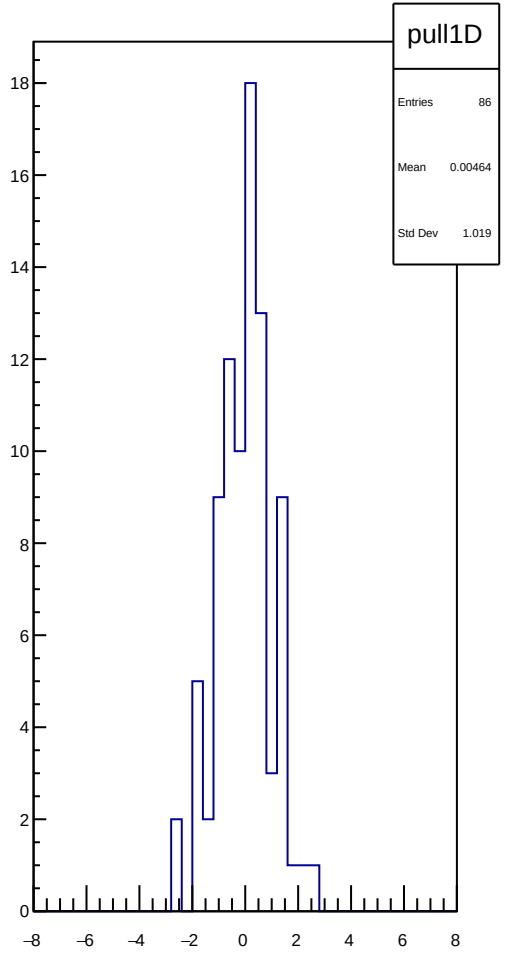

pull1D
Entries 86
Mean −0.002429
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

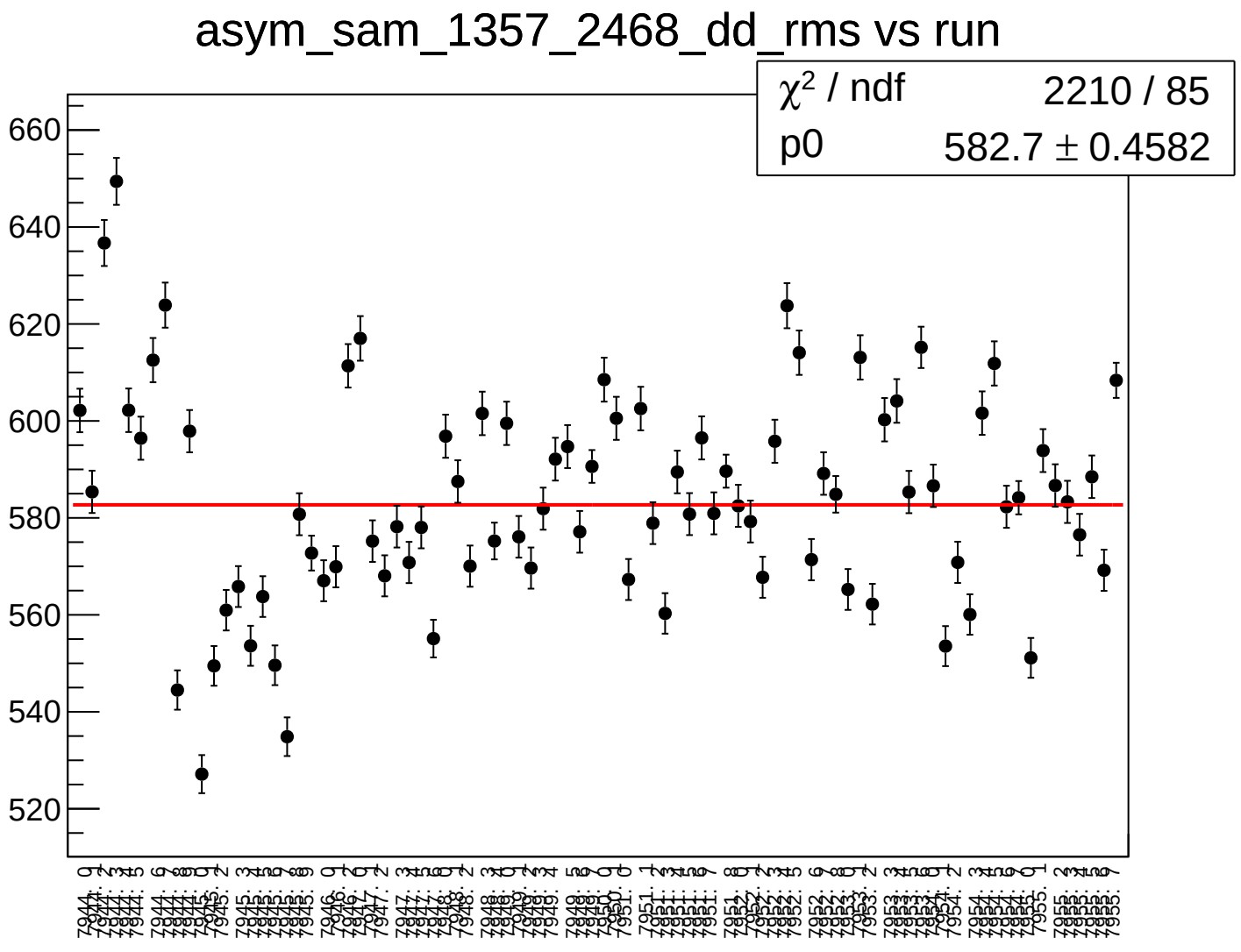

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.121e+04 / 85
p0 46.08 ± 0.03668
120
110
100
90
80
70
60
50
40

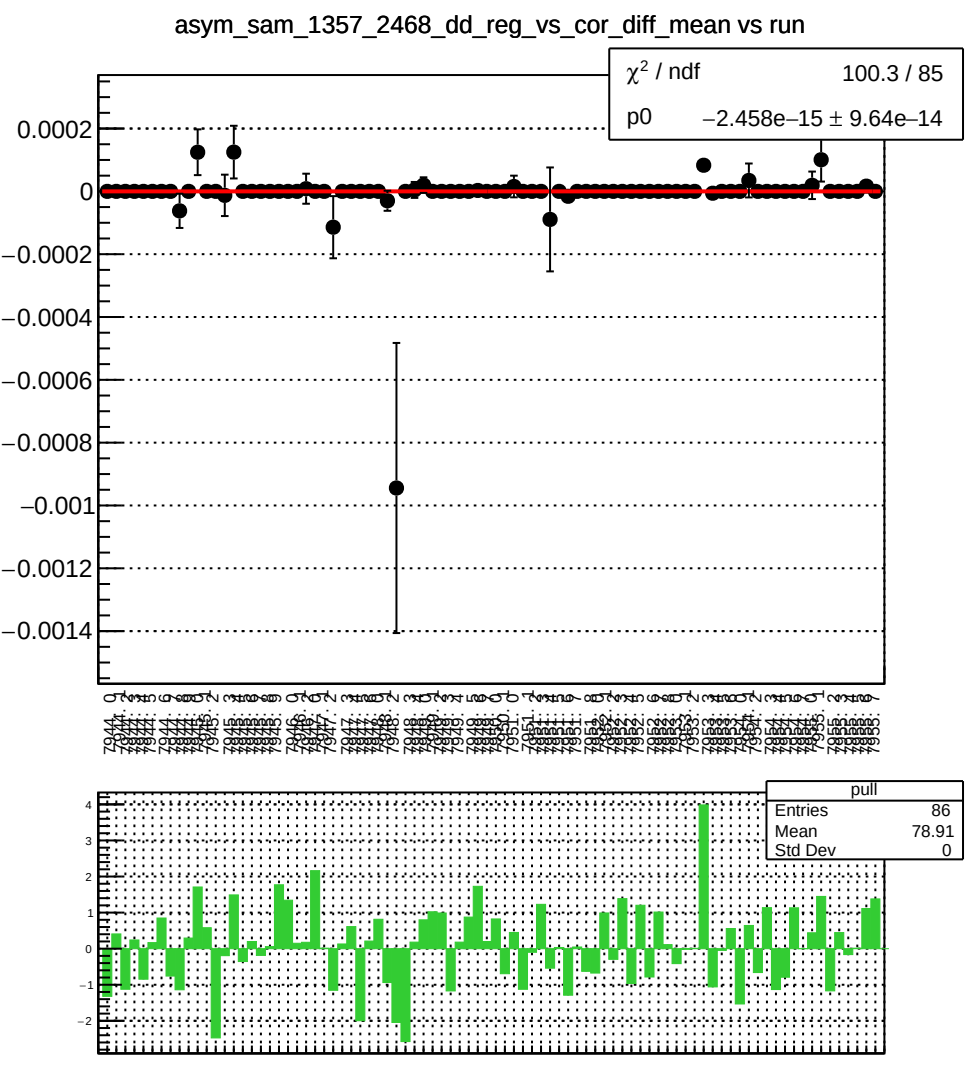

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.84 / 85
p0 210.9 ± 673.5
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 1032
Std Dev 0
pull1D
Entries 86
Mean −0.003979
Std Dev 1.022

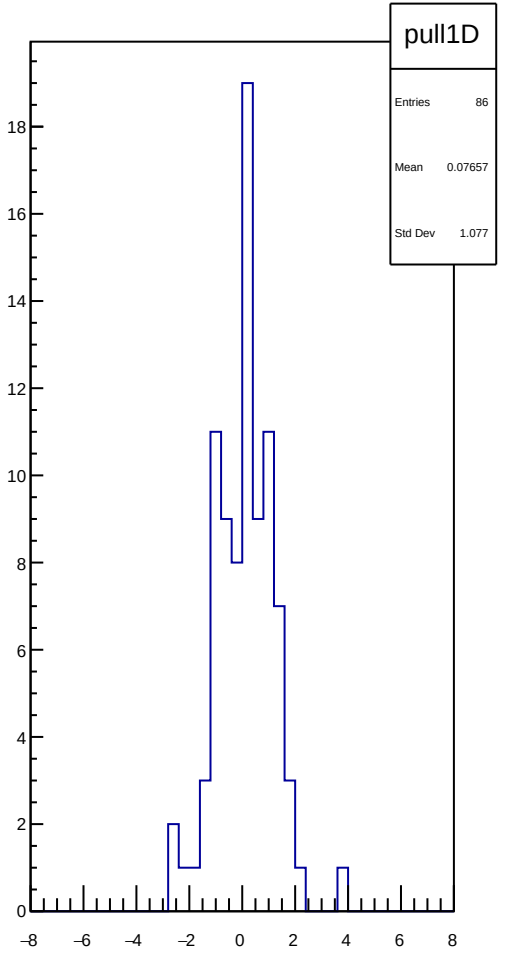

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1968 / 85
p0 605.6 ± 0.4762
680
660
640
620
600
580
560
540

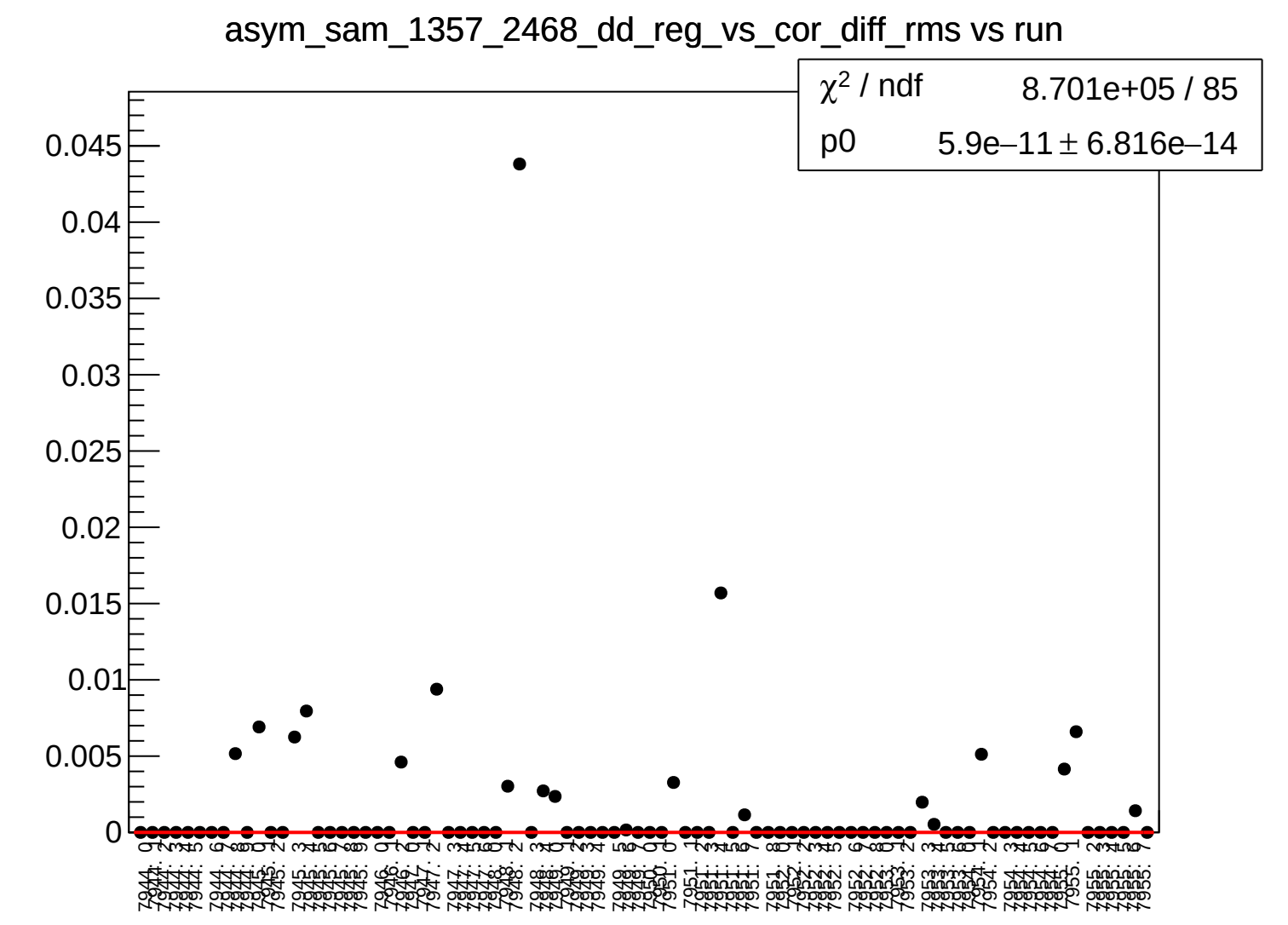

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.38 / 85
p0 −232.4 ± 648
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 877.9
Std Dev 0
2
1
0
−1
−2

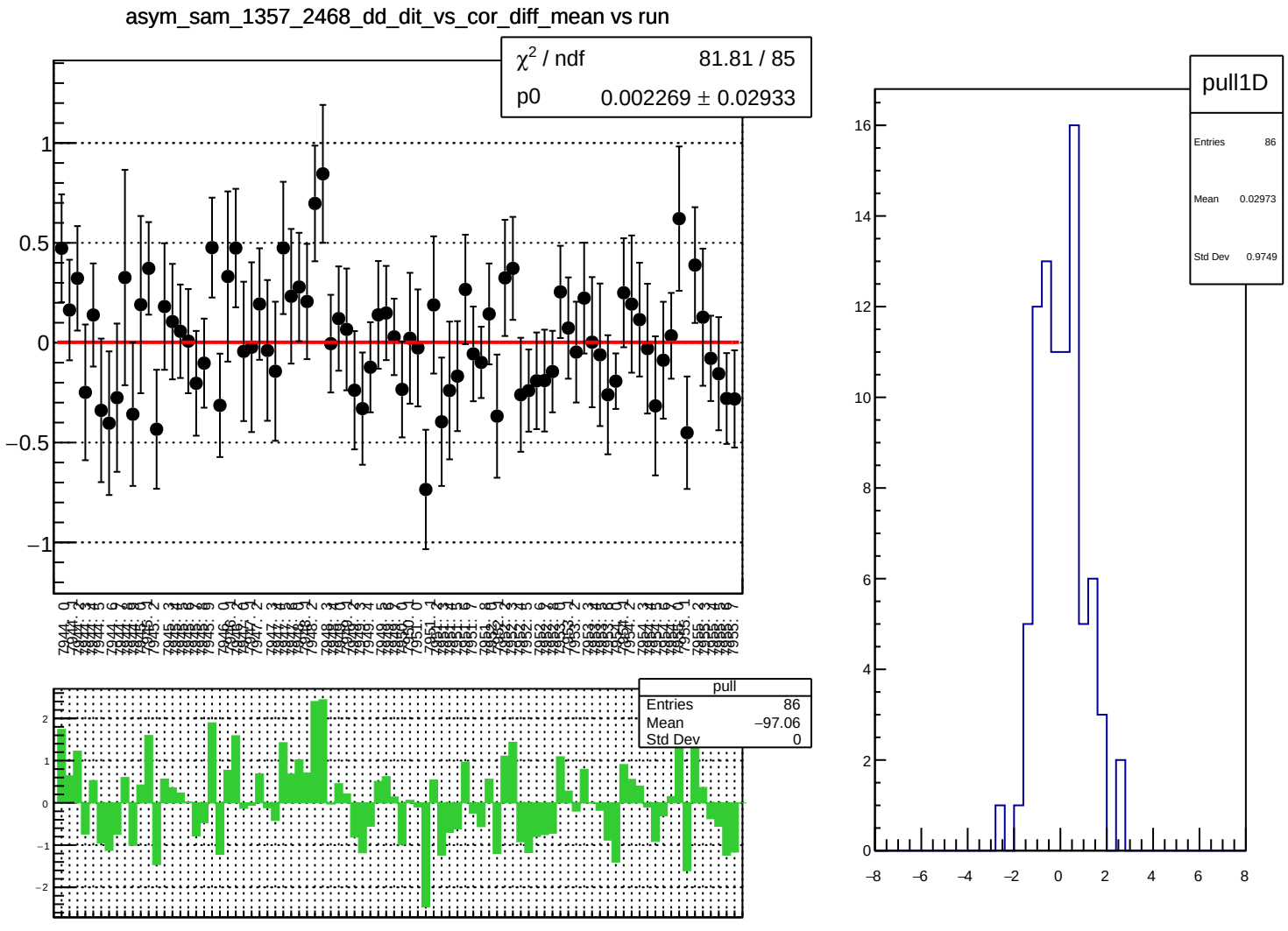

pull1D
Entries 86
Mean 0.00464
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

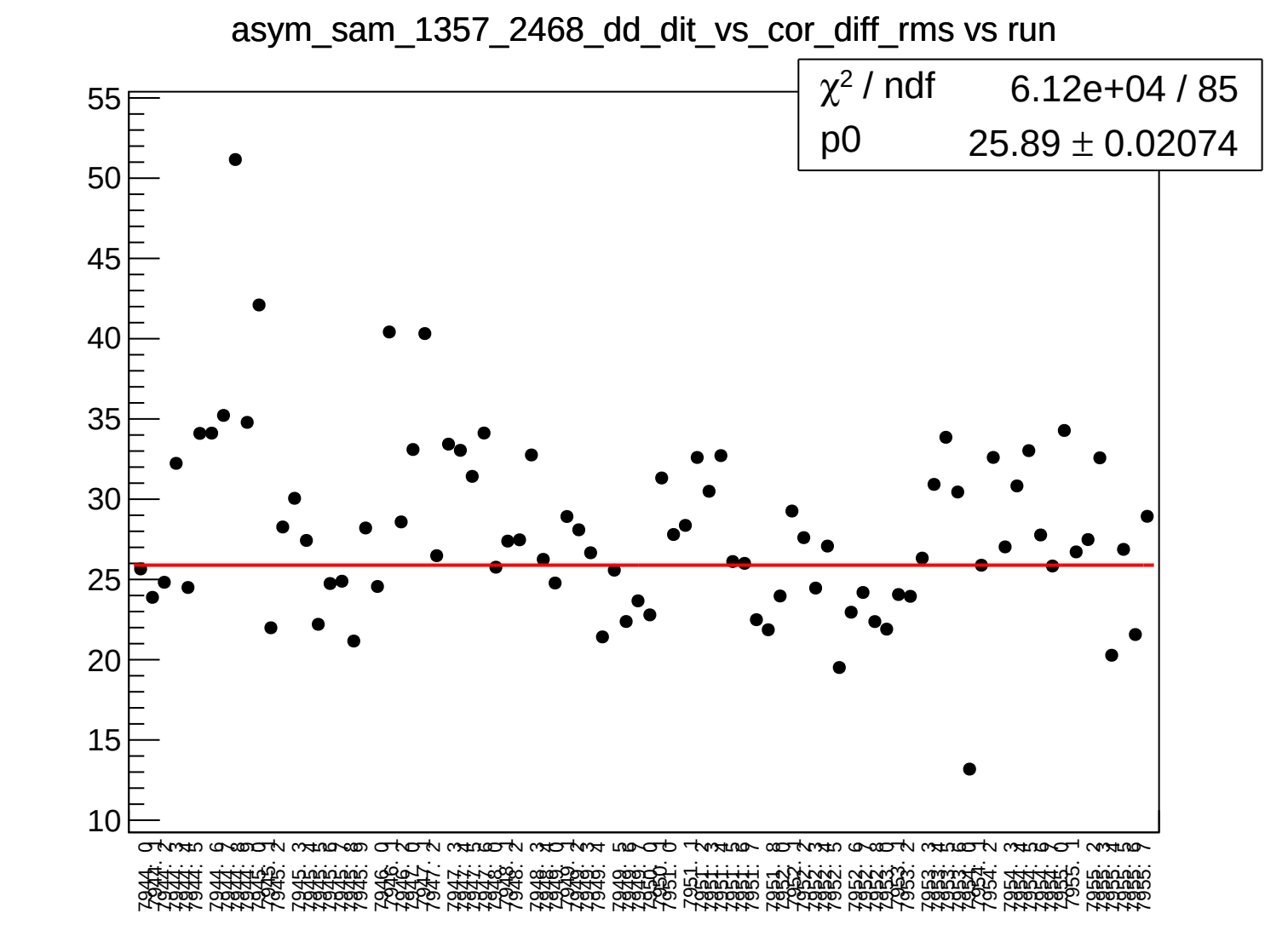

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2210 / 85
p0 582.7 ± 0.4582
660
640
620
600
580
560
540
520

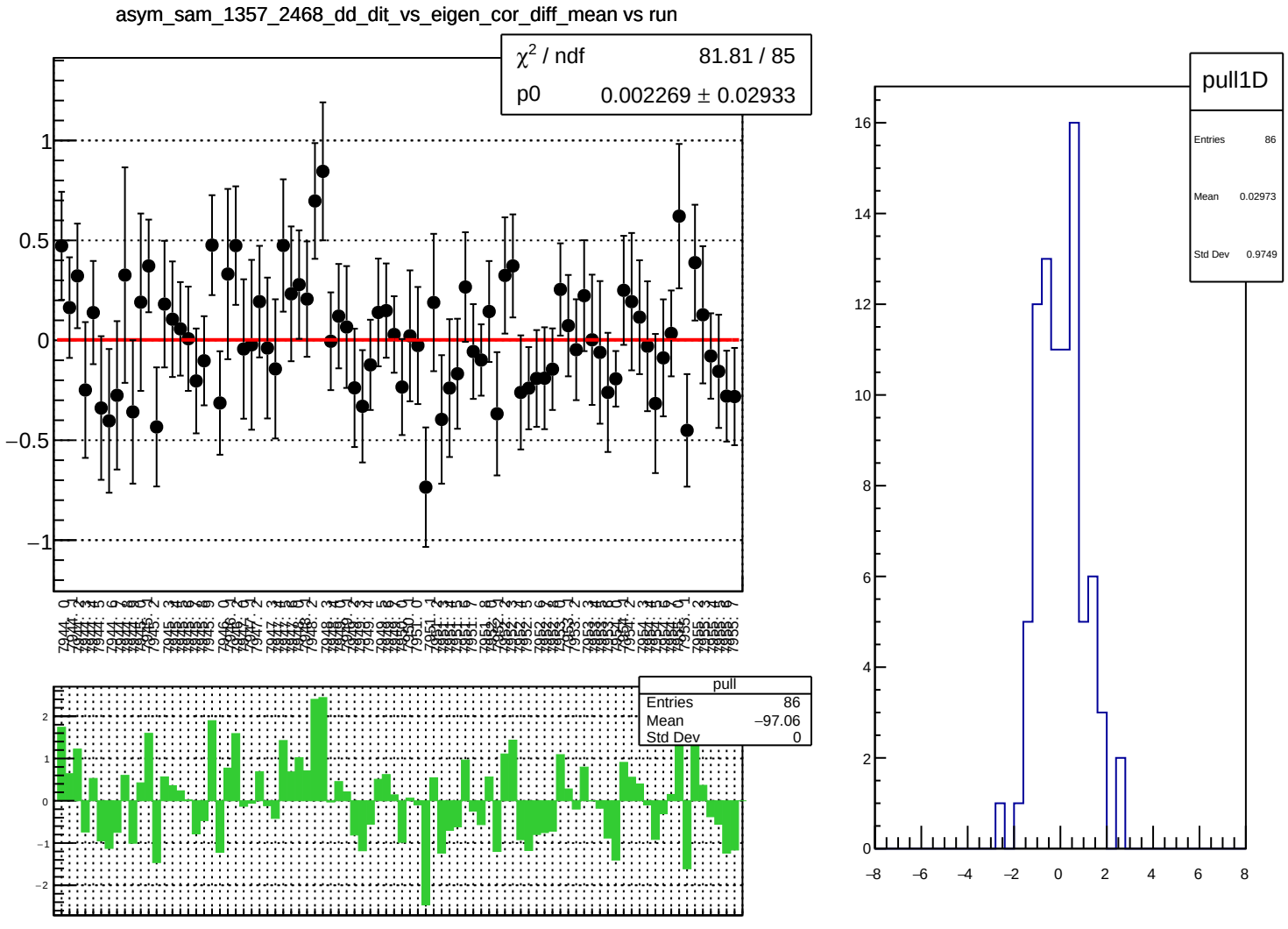

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 85
p0 −2.458e−15 ± 9.64e−14
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
pull
Entries 86
Mean 78.91
Std Dev 0
4
3
2
1
0
−1
−2

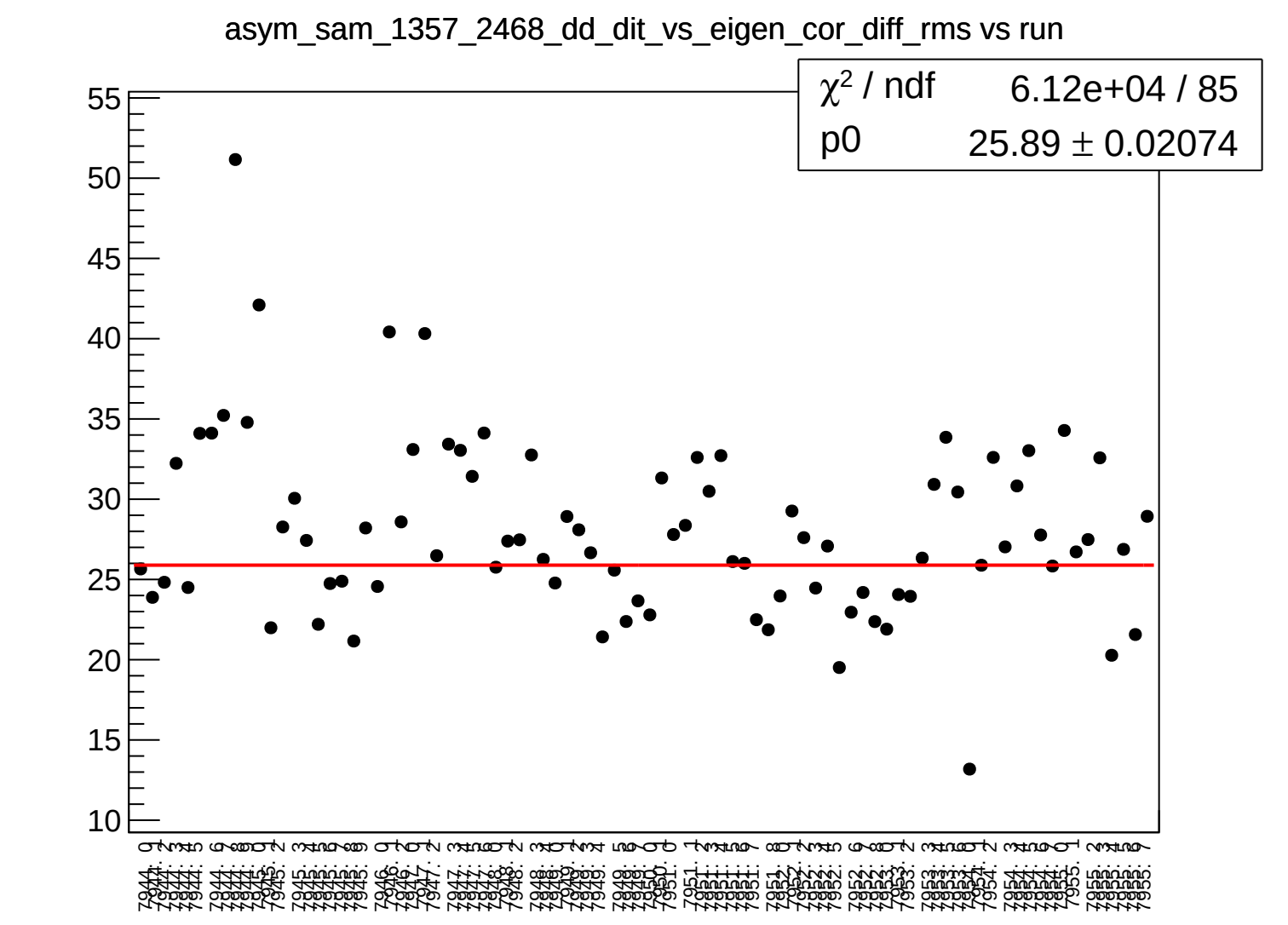

pull1D
Entries 86
Mean 0.07657
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

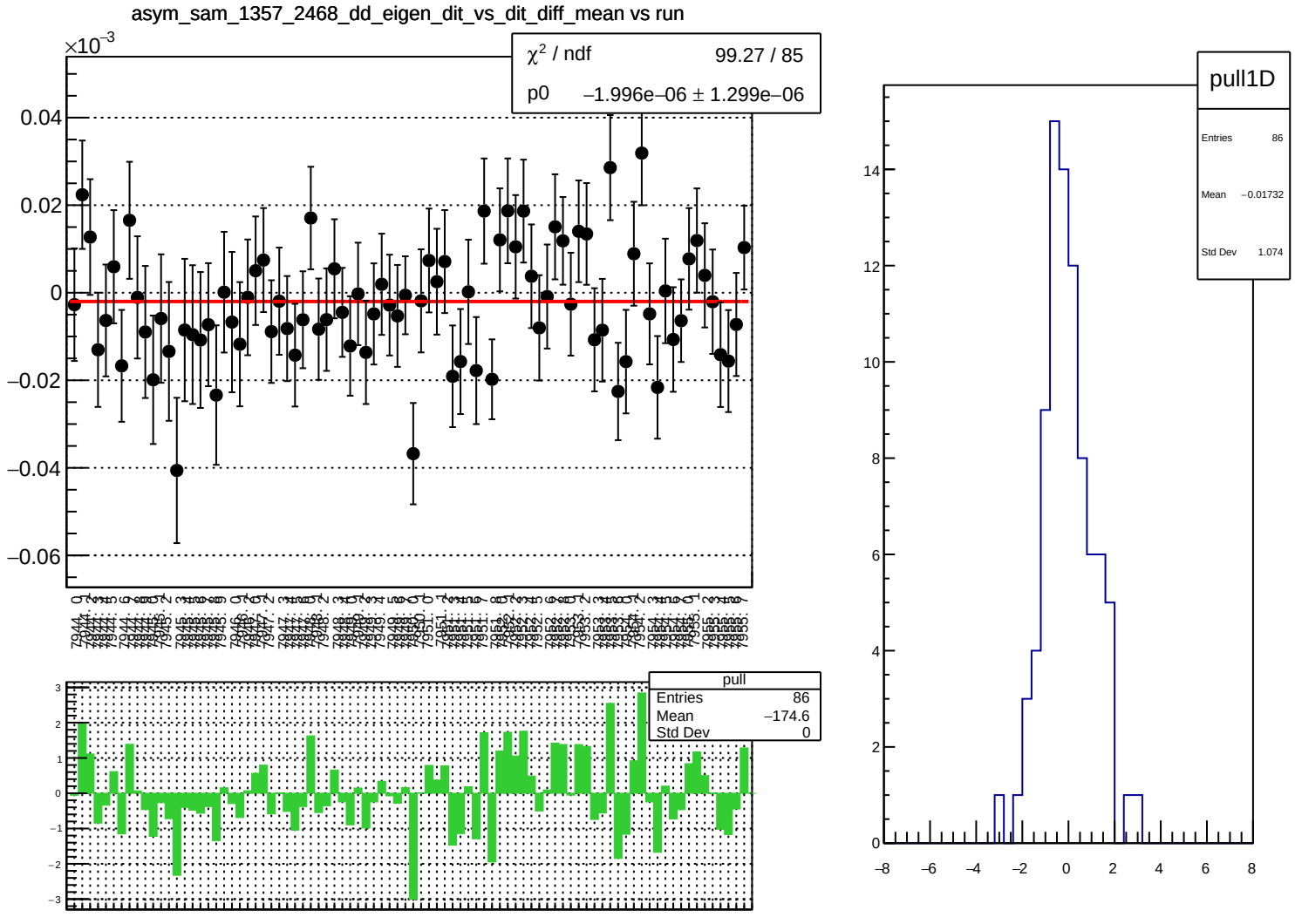

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.701e+05 / 85
p0 5.9e−11 ± 6.816e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

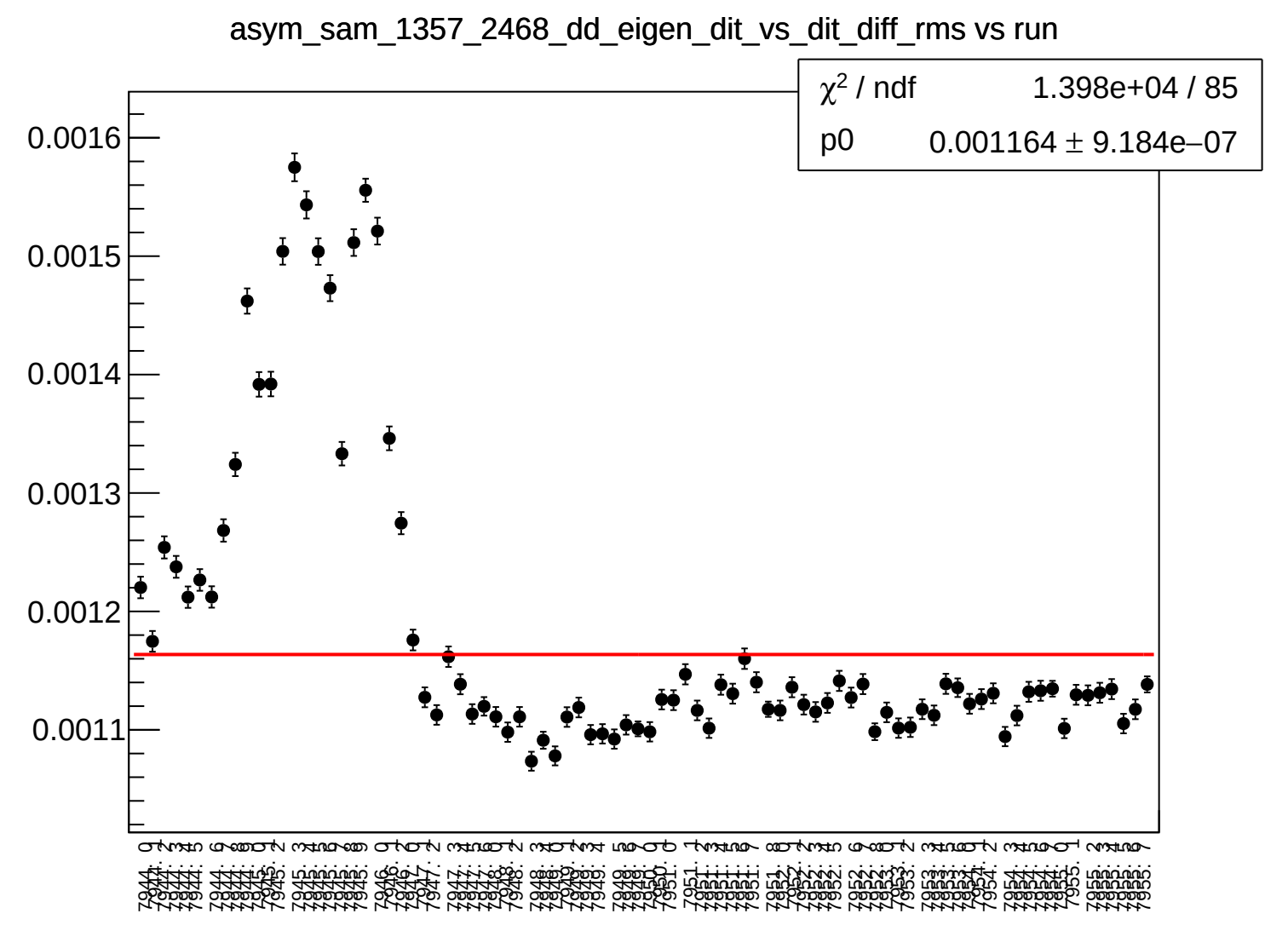

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.81 / 85
p0 0.002269 ± 0.02933
pull
Entries 86
Mean −97.06
Std Dev 0
pull1D
Entries 86
Mean 0.02973
Std Dev 0.9749

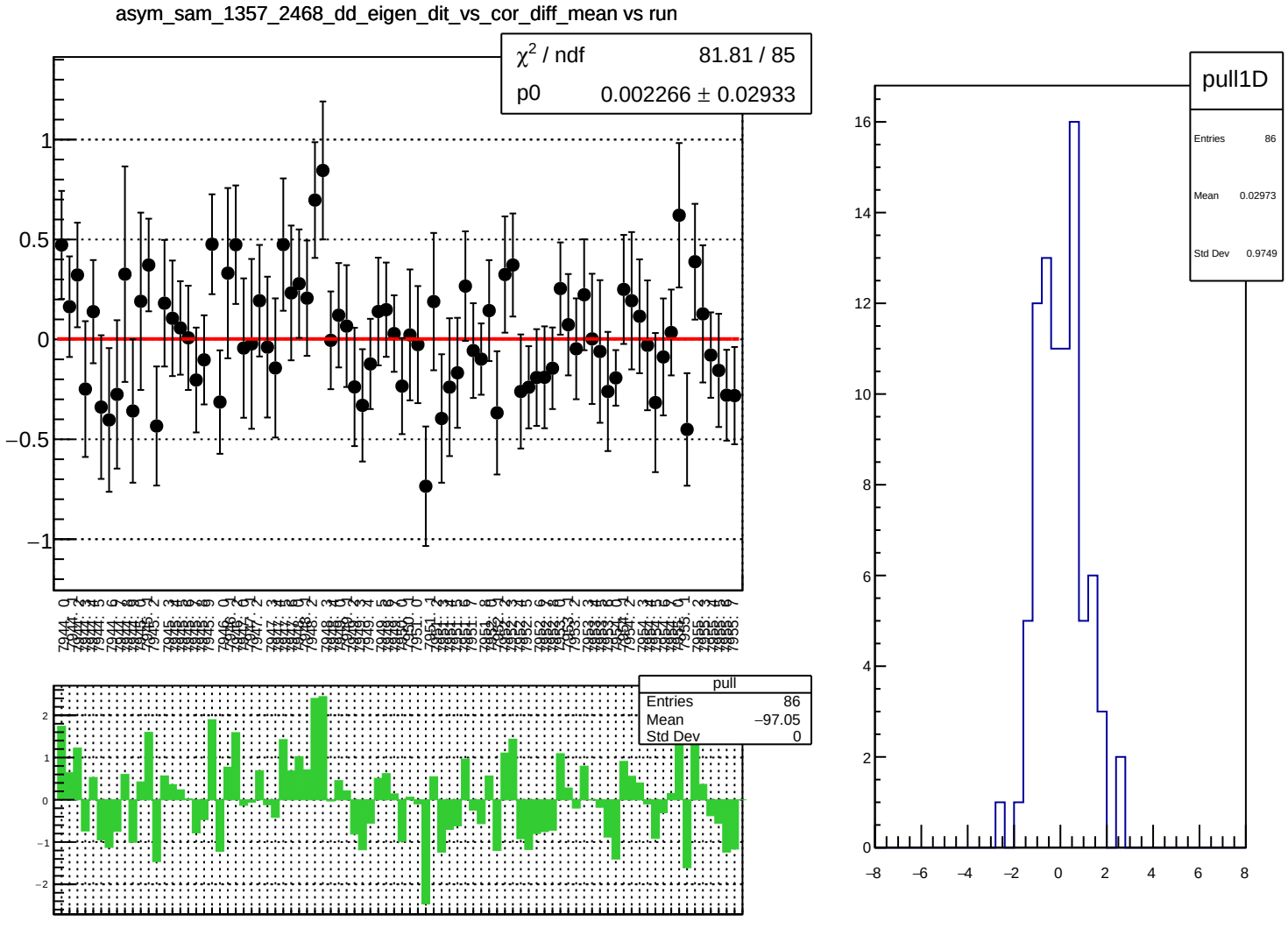

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.12e+04 / 85
p0 25.89 ± 0.02074
55
50
45
40
35
30
25
20
15
10

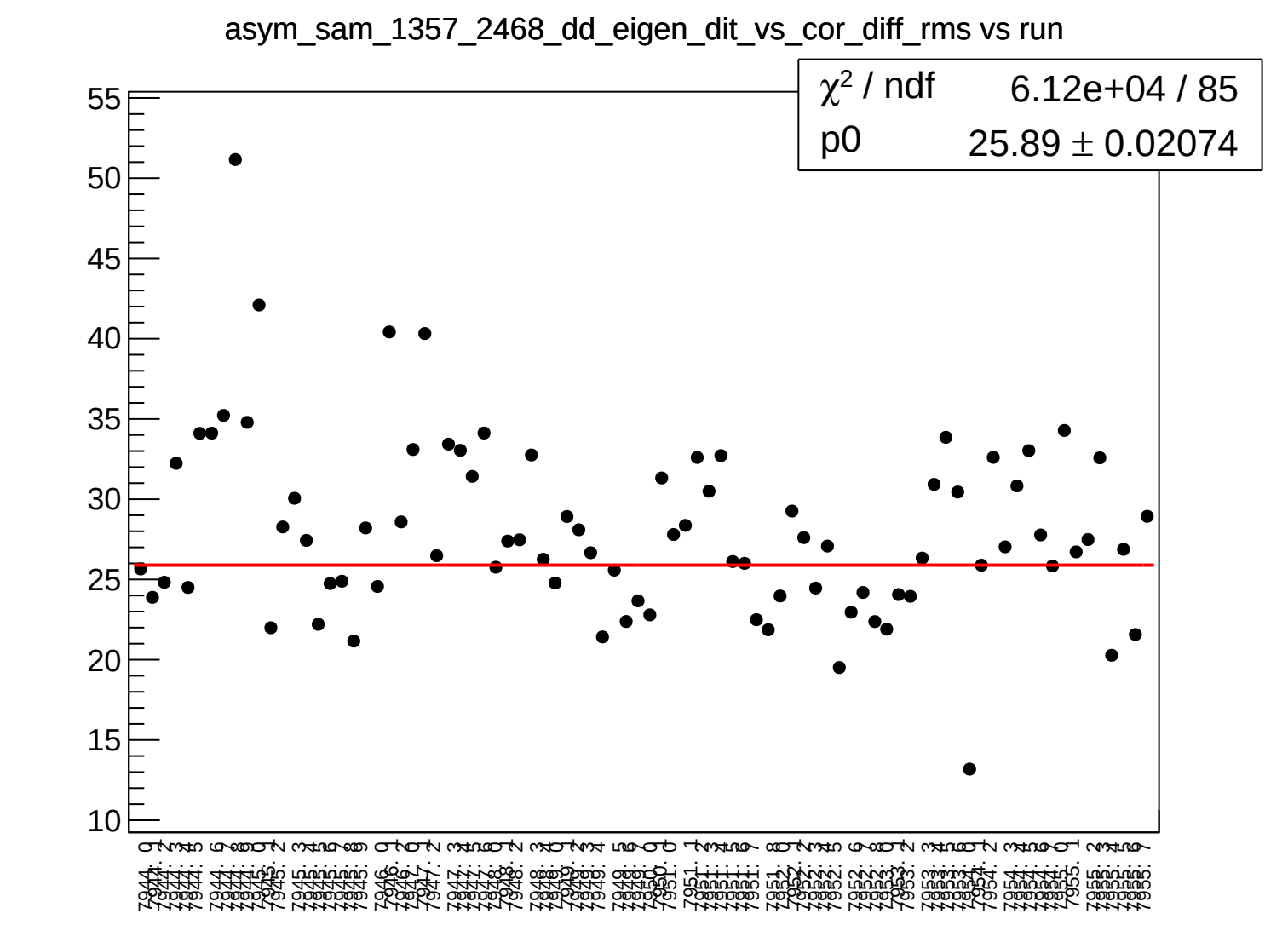

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.81 / 85
p0 0.002269 ± 0.02933
pull
Entries 86
Mean −97.06
Std Dev 0
pull1D
Entries 86
Mean 0.02973
Std Dev 0.9749

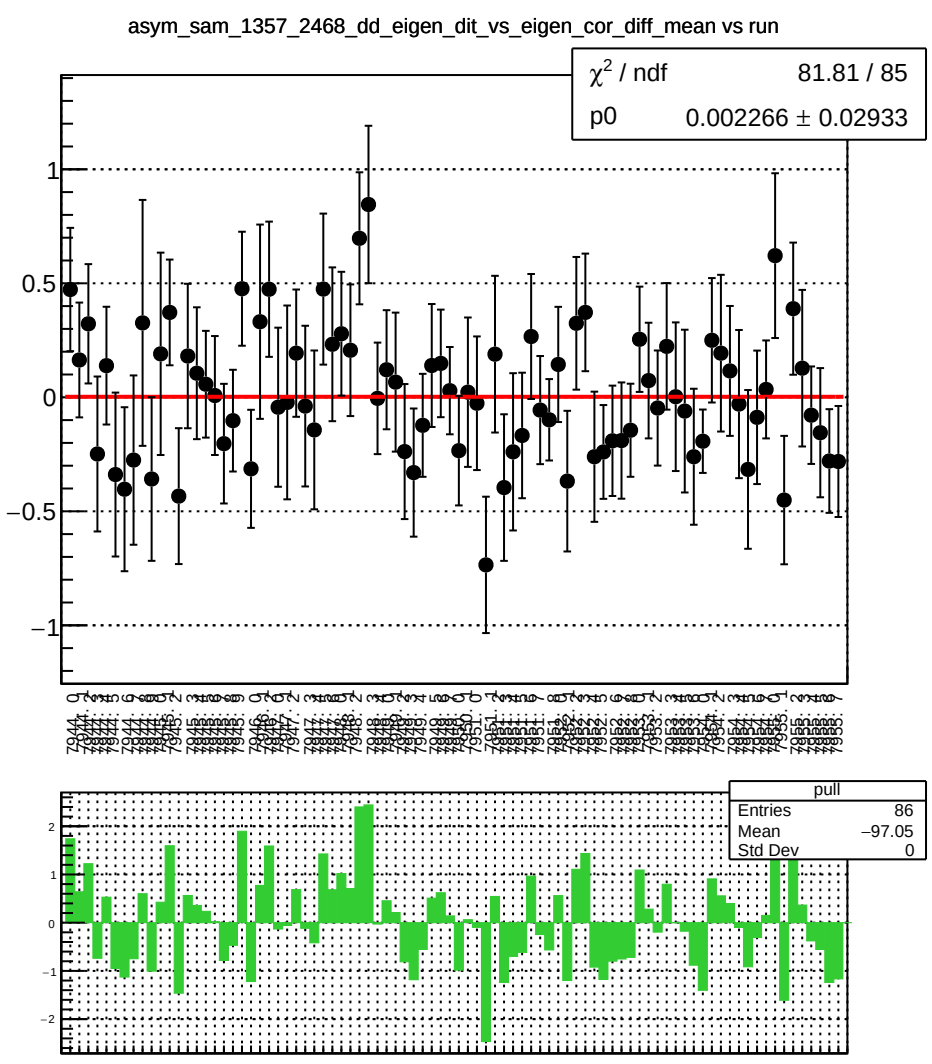

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.12e+04 / 85
p0 25.89 ± 0.02074
55
50
45
40
35
30
25
20
15
10

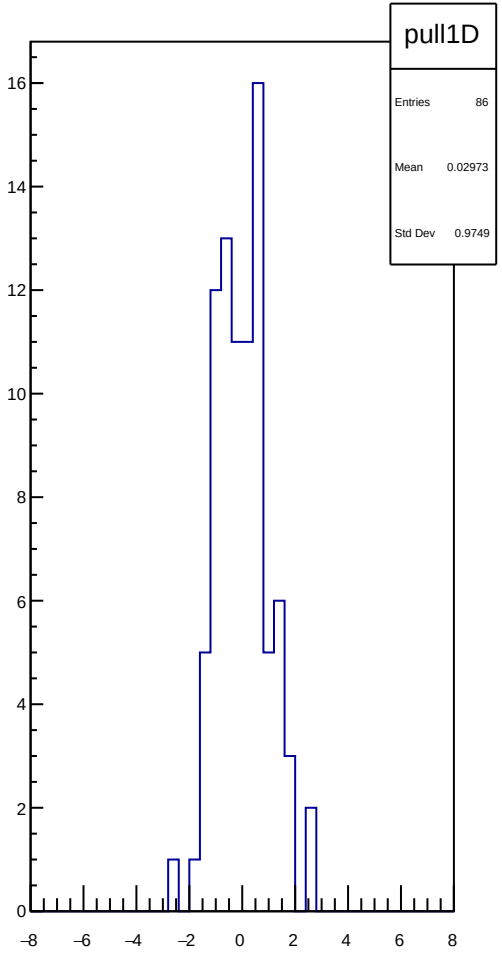

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.27 / 85
p0 −1.996e−06 ± 1.299e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −174.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01732
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

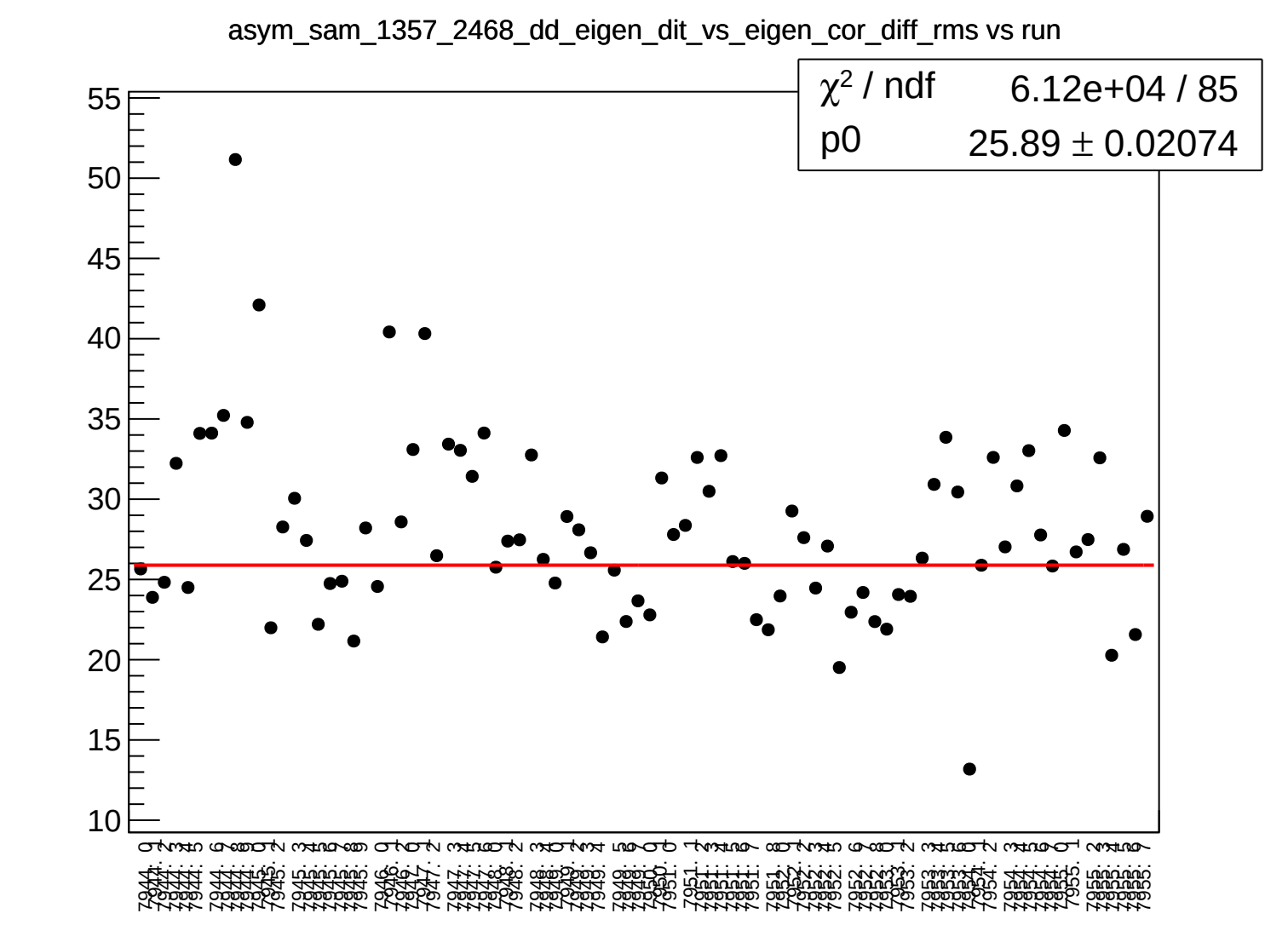

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.398e+04 / 85
p0 0.001164 ± 9.184e−07
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

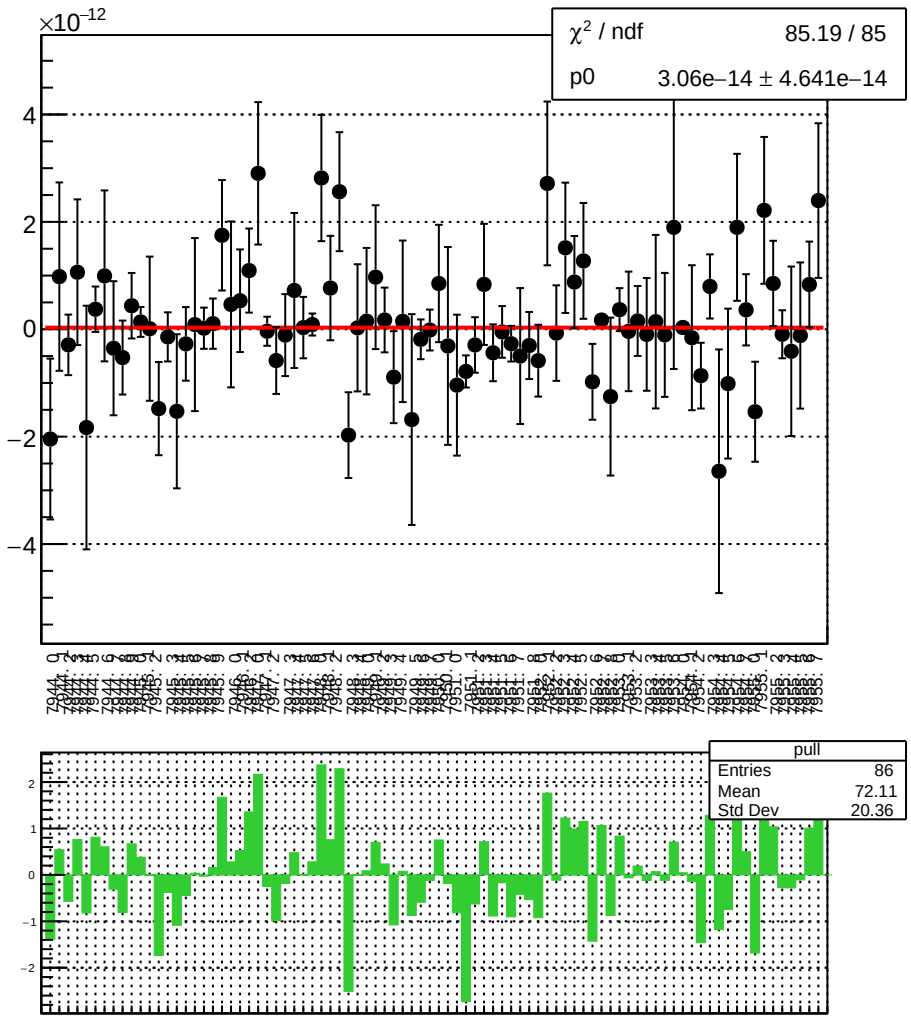

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.81 / 85
p0 0.002266 ± 0.02933
pull
Entries 86
Mean −97.05
Std Dev 0
pull1D
Entries 86
Mean 0.02973
Std Dev 0.9749

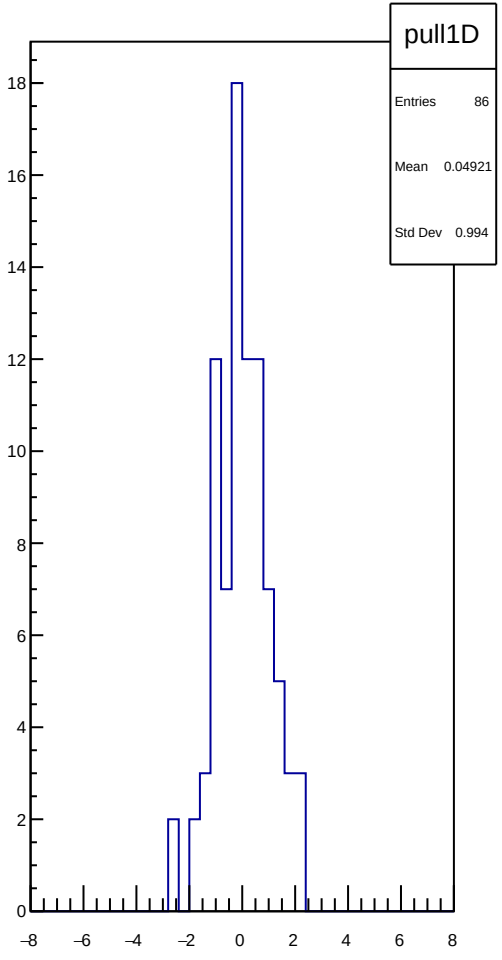

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.12e+04 / 85
p0 25.89 ± 0.02074
55
50
45
40
35
30
25
20
15
10

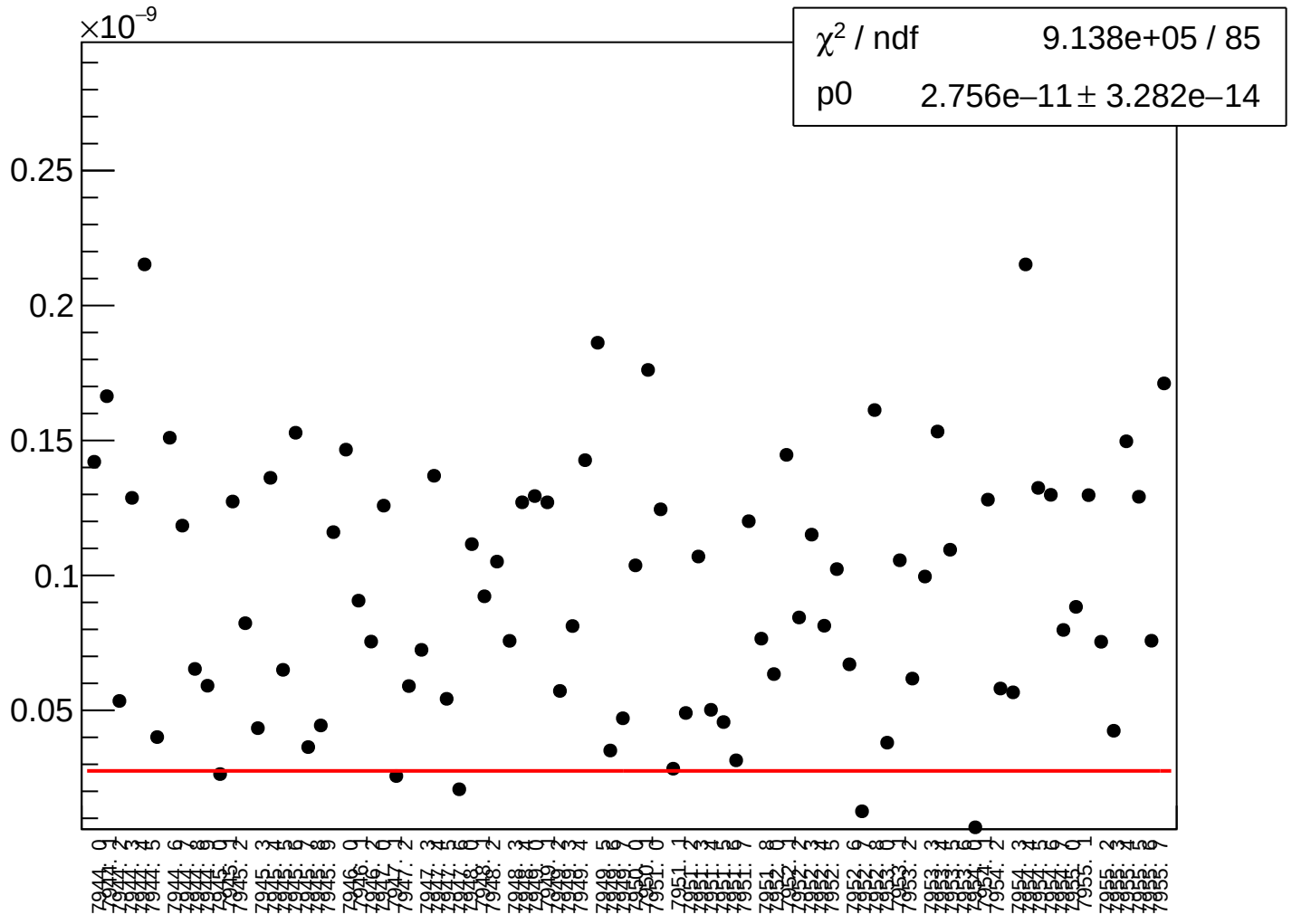

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.81 / 85
p0 0.002266 ± 0.02933
pull
Entries 86
Mean −97.05
Std Dev 0

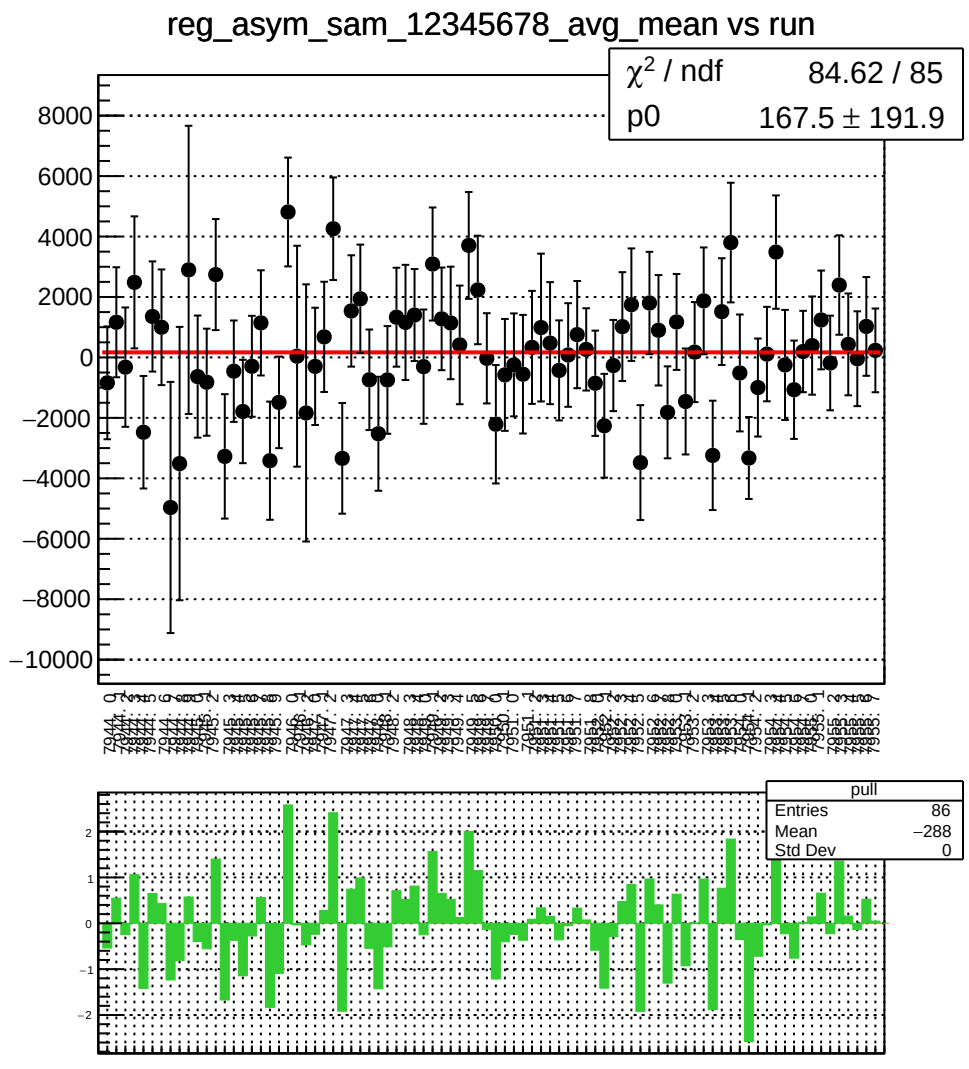

pull1D
Entries 86
Mean 0.02973
Std Dev 0.9749

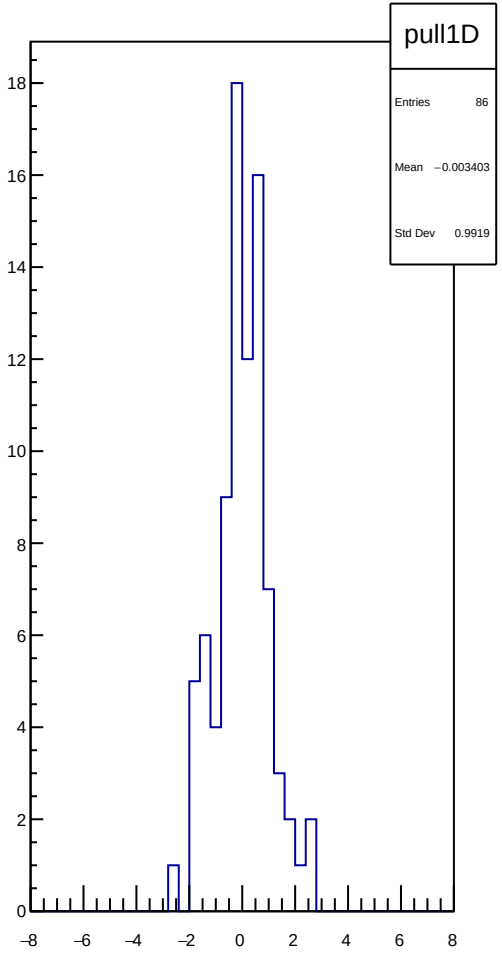

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.12e+04 / 85
p0 25.89 ± 0.02074
55
50
45
40
35
30
25
20
15
10

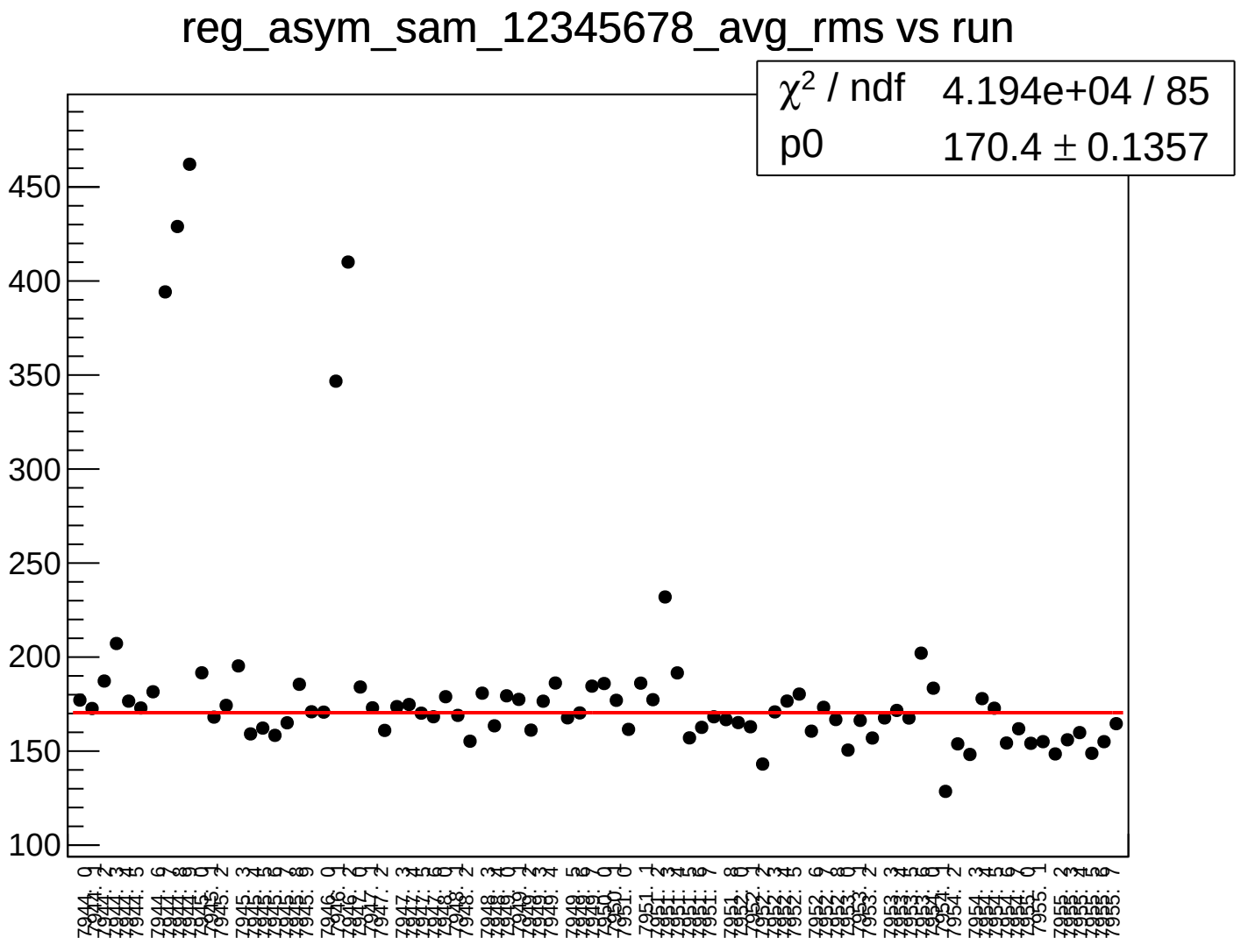

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.19 / 85
p0 3.06e−14 ± 4.641e−14
pull
Entries 86
Mean 72.11
Std Dev 20.36

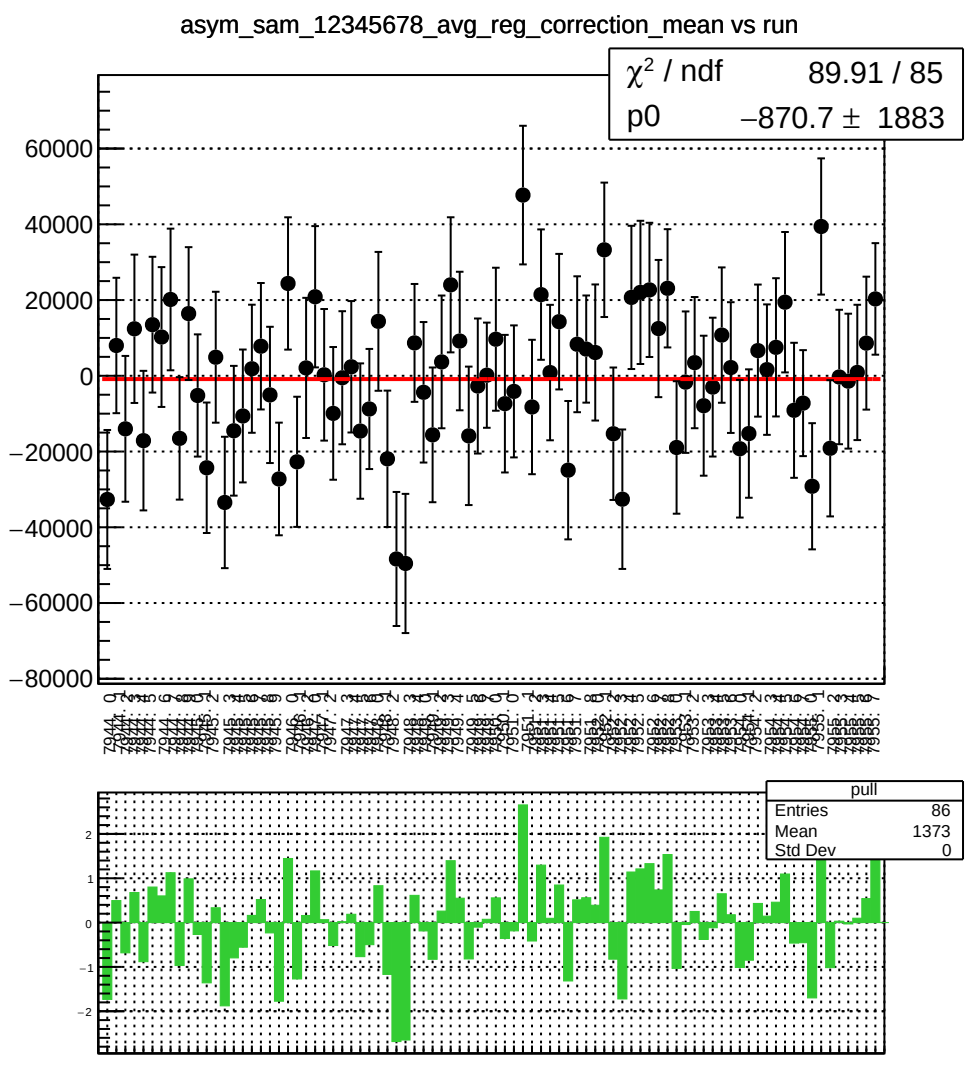

pull1D
Entries 86
Mean 0.04921
Std Dev 0.994

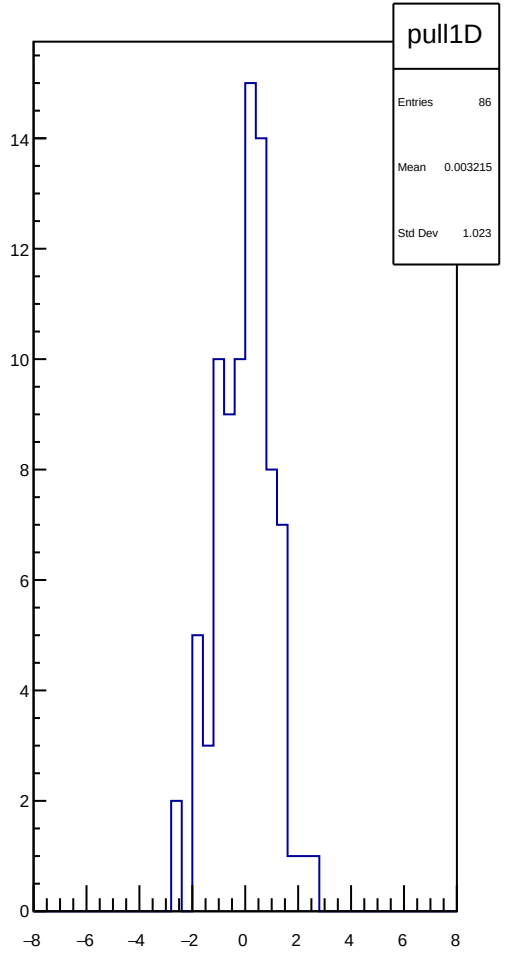

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.138e+05 / 85
p0 2.756e−11 ± 3.282e−14
0.25
0.2
0.15
0.1
0.05

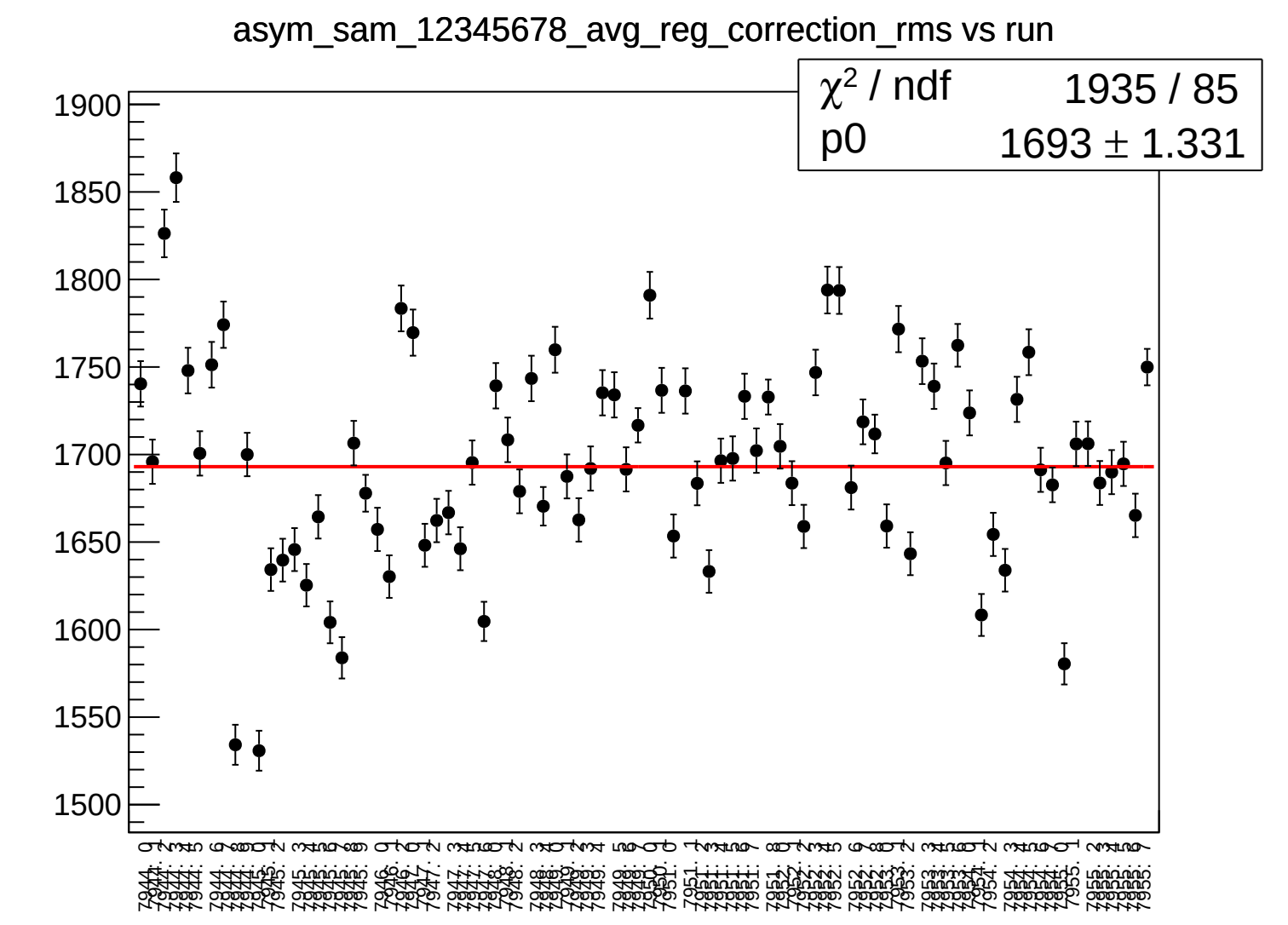

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 84.62 / 85
p0 167.5 ± 191.9
pull
Entries 86
Mean −288
Std Dev 0

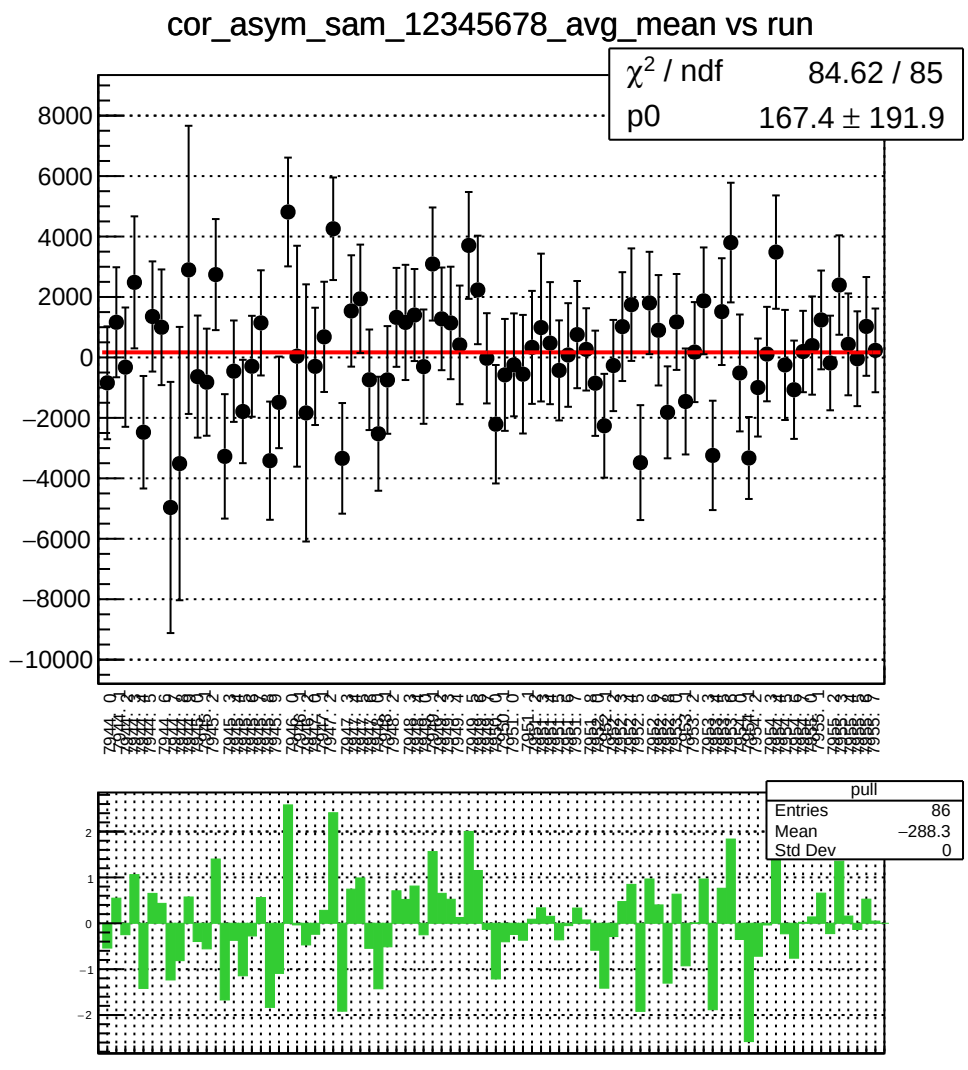

pull1D
Entries 86
Mean −0.003403
Std Dev 0.9919

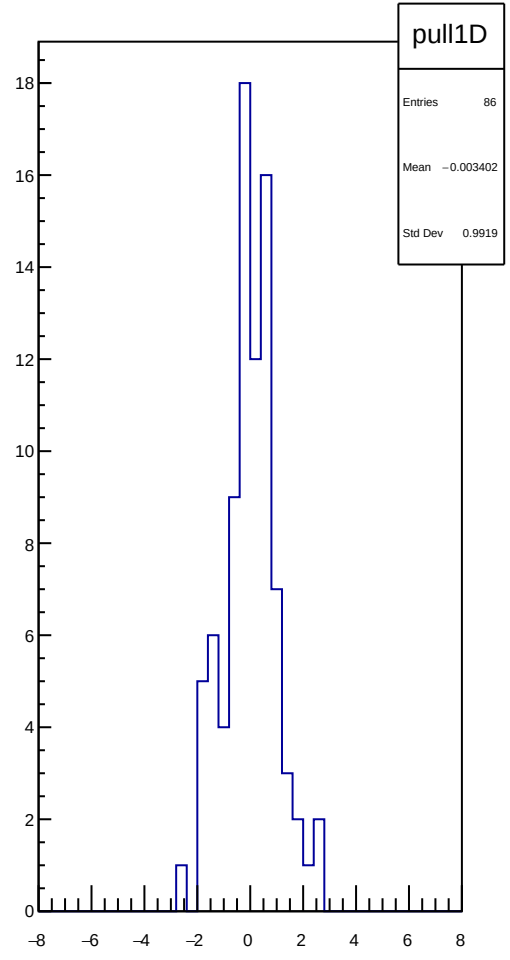

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.194e+04 / 85
p0 170.4 ± 0.1357
450
400
350
300
250
200
150
100

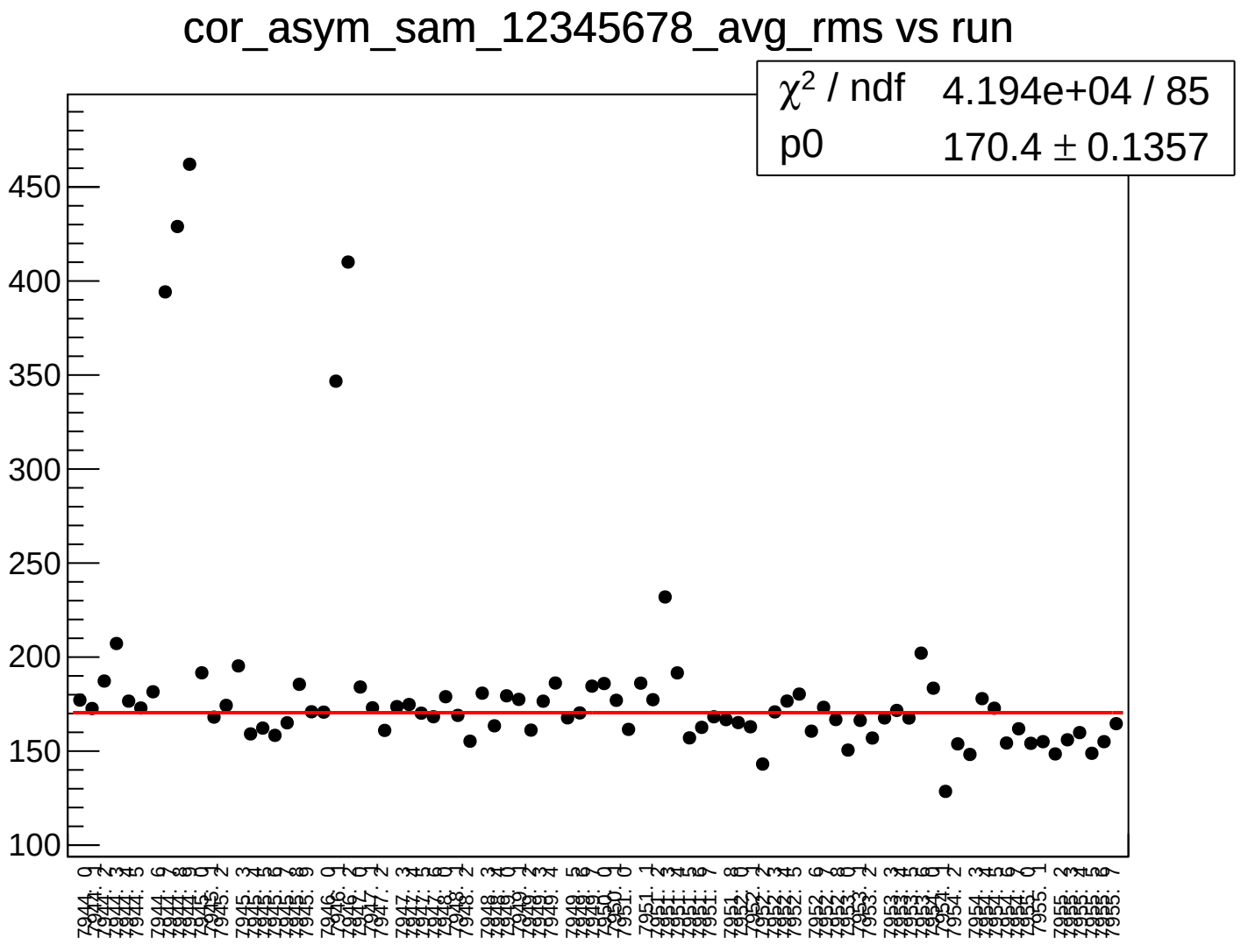

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 89.91 / 85
p0 −870.7 ± 1883
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 1373
Std Dev 0
2
1
0
−1
−2

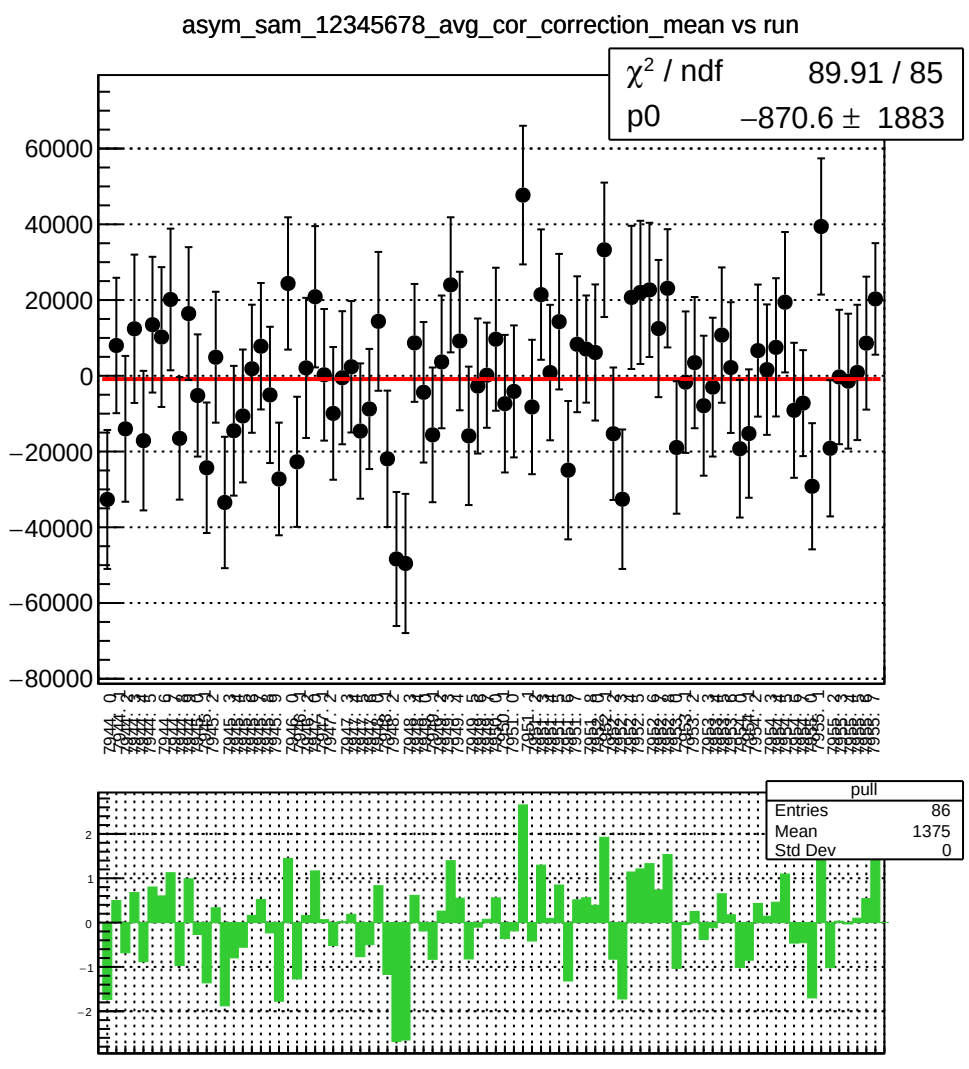

pull1D
Entries 86
Mean 0.003215
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

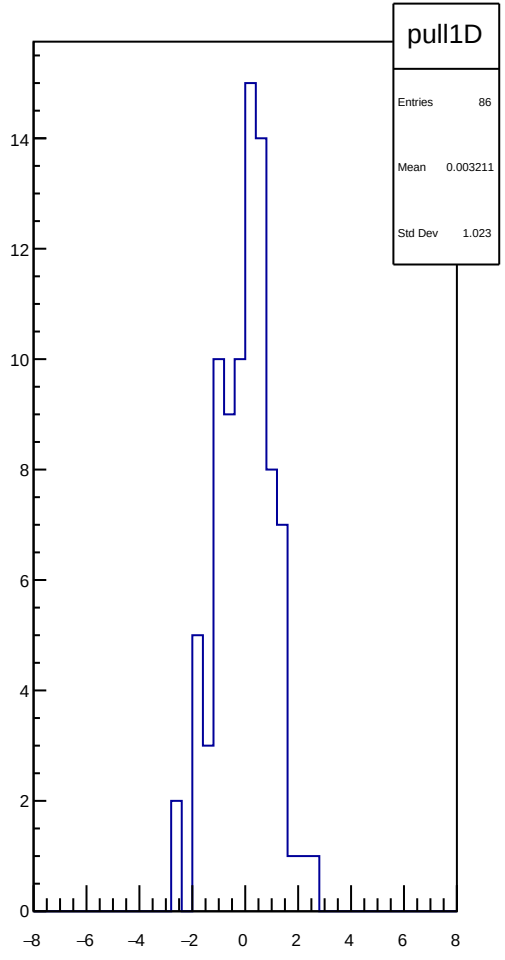

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1935 / 85
p0 1693 ± 1.331
1900
1850
1800
1750
1700
1650
1600
1550
1500

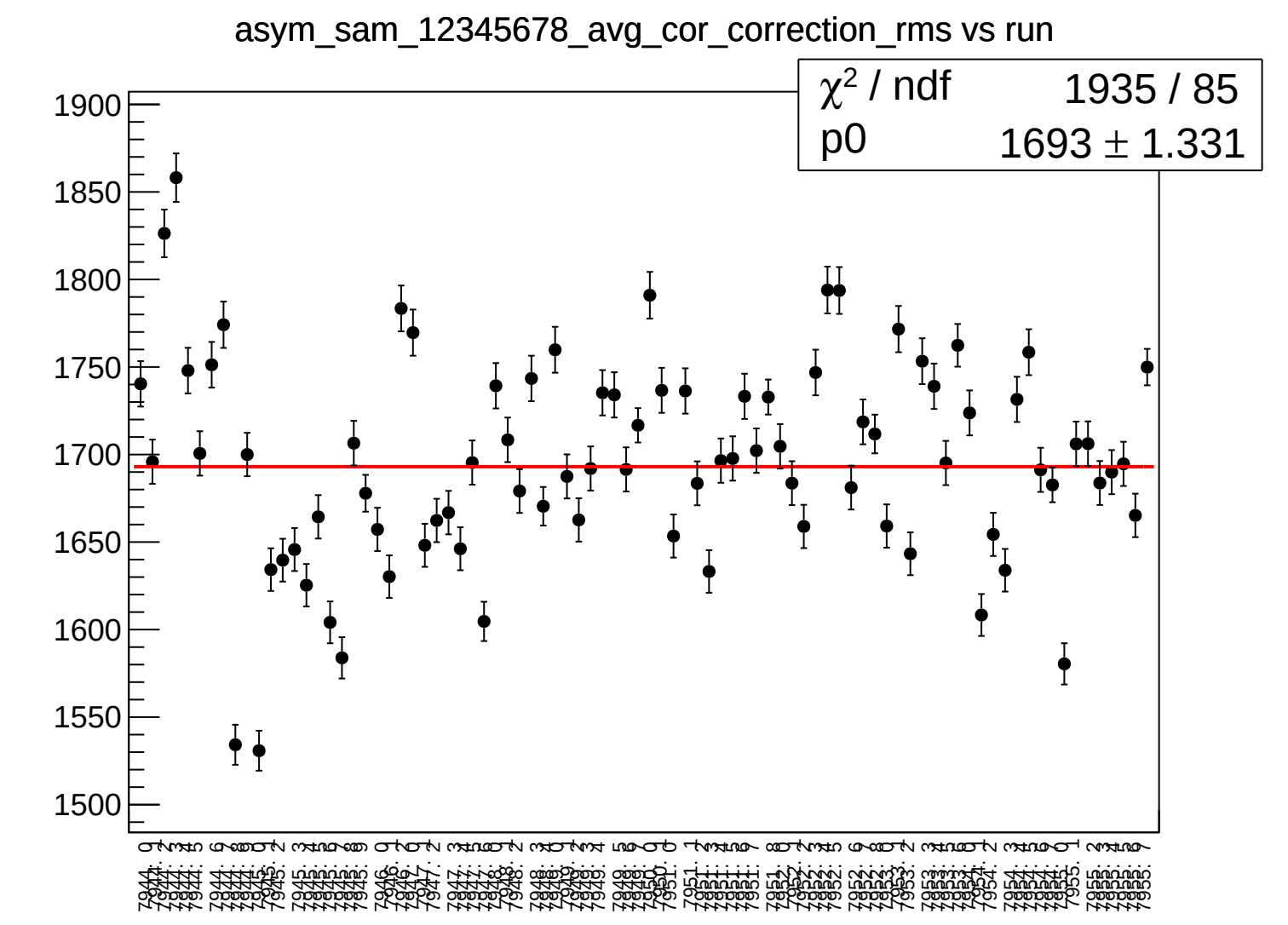

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 84.62 / 85
p0 167.4 ± 191.9
pull
Entries 86
Mean −288.3
Std Dev 0

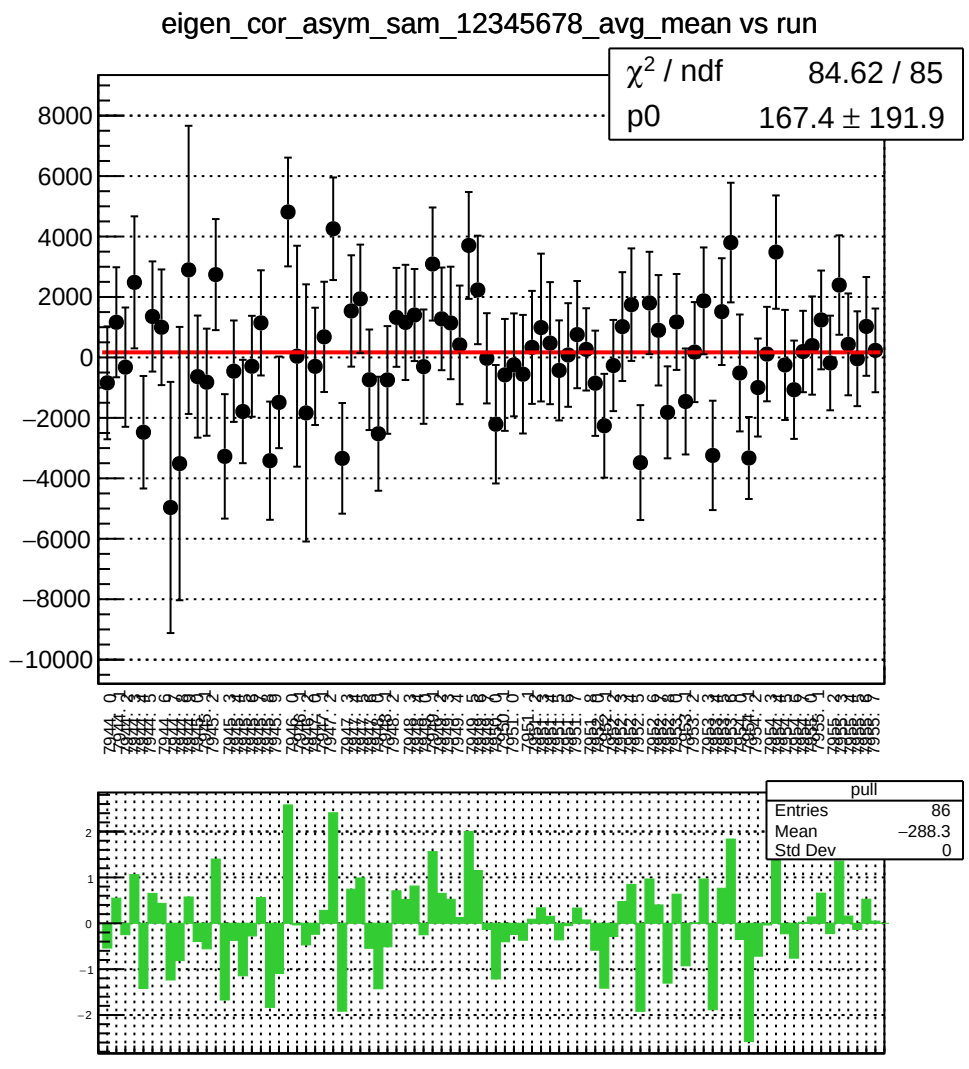

pull1D
Entries 86
Mean −0.003402
Std Dev 0.9919

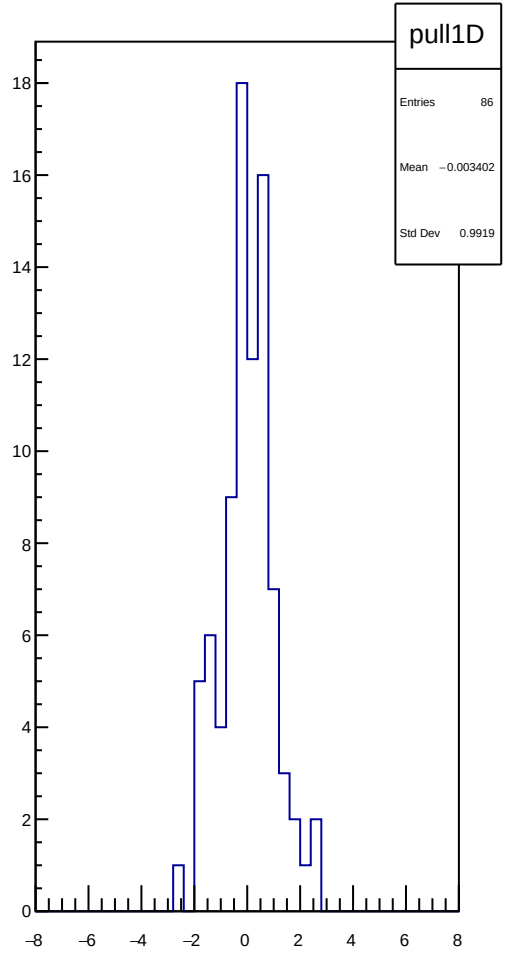

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.194e+04 / 85
p0 170.4 ± 0.1357
450
400
350
300
250
200
150
100

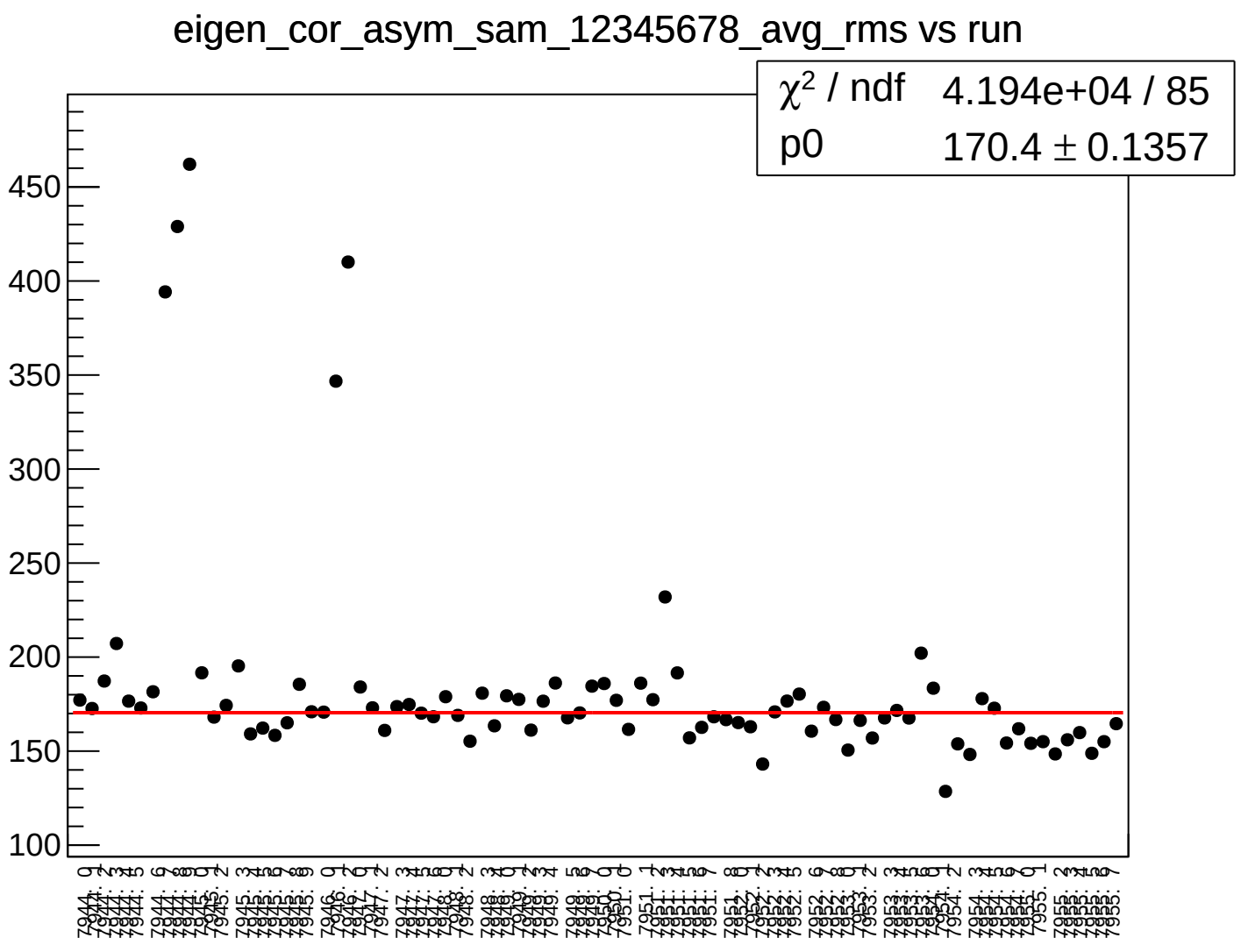

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 89.91 / 85
p0 −870.6 ± 1883
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 1375
Std Dev 0
2
1
0
−1
−2

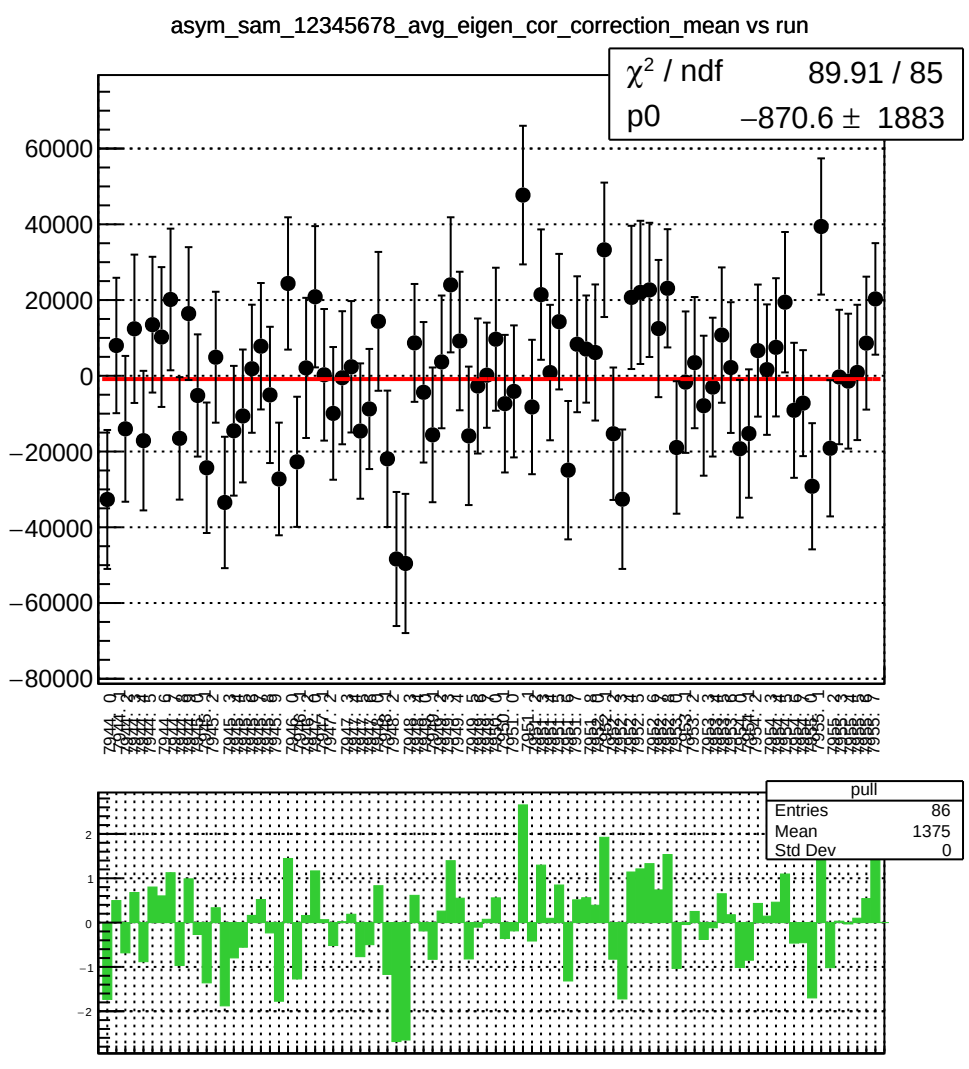

pull1D
Entries 86
Mean 0.003211
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

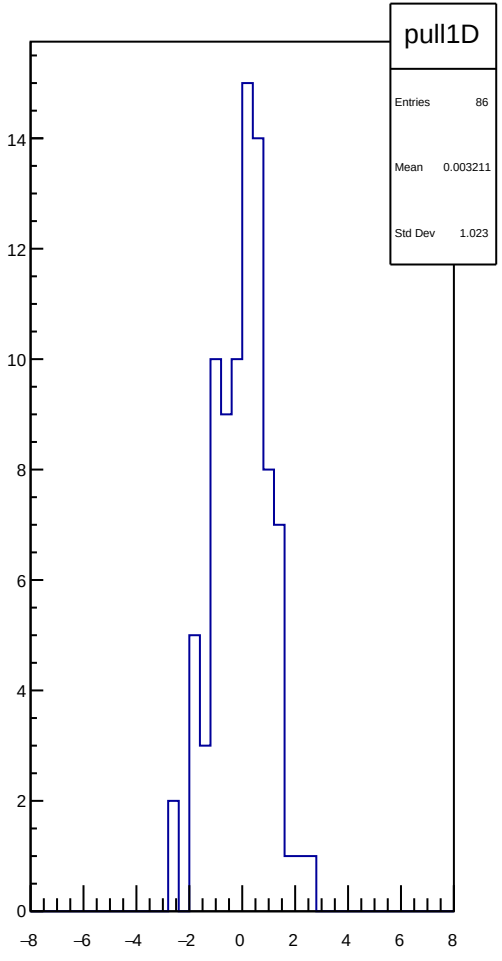

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1935 / 85
p0 1693 ± 1.331
1900
1850
1800
1750
1700
1650
1600
1550
1500

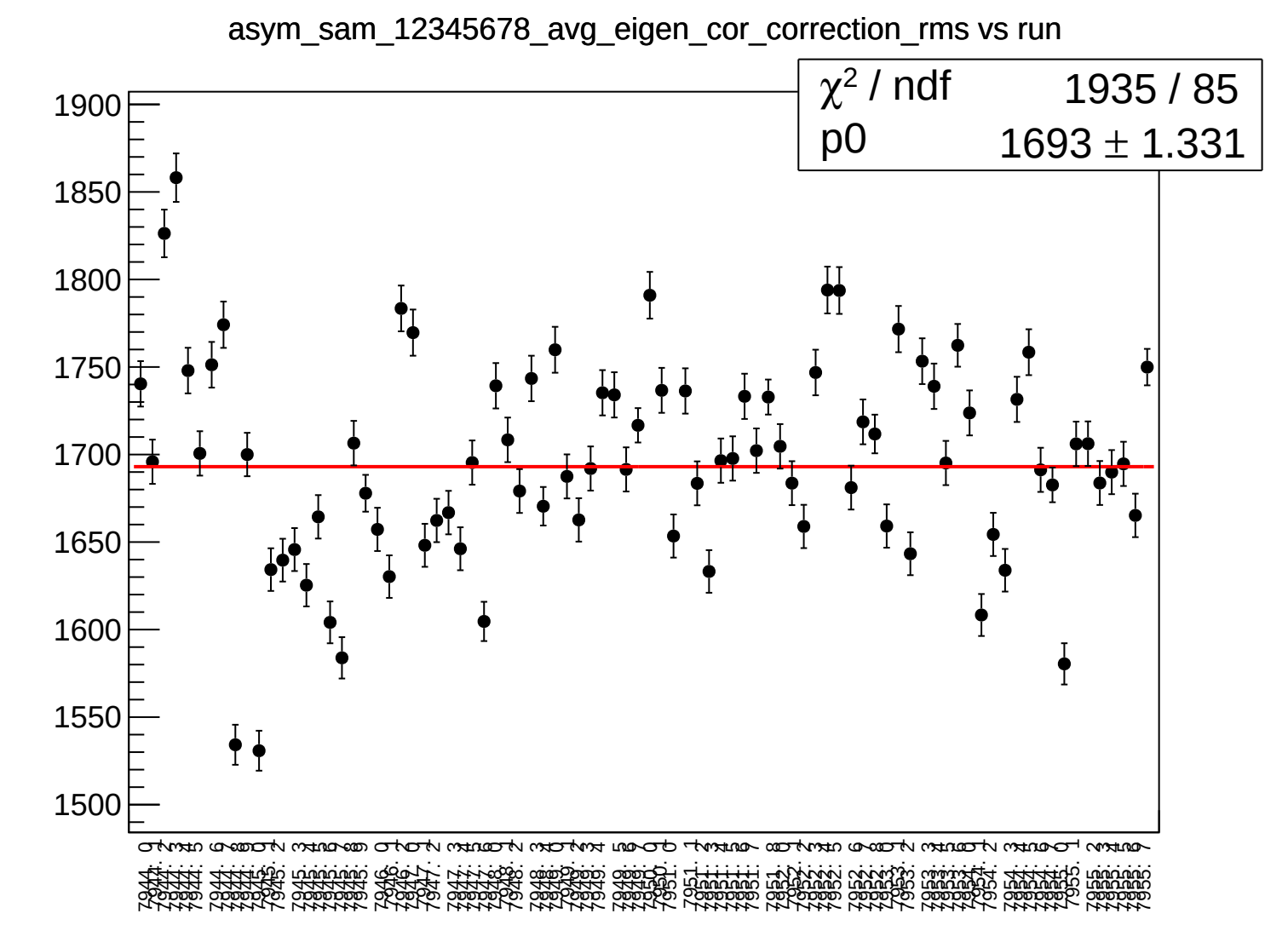

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 84.62 / 85
p0 167.4 ± 191.9
pull
Entries 86
Mean −288.3
Std Dev 0

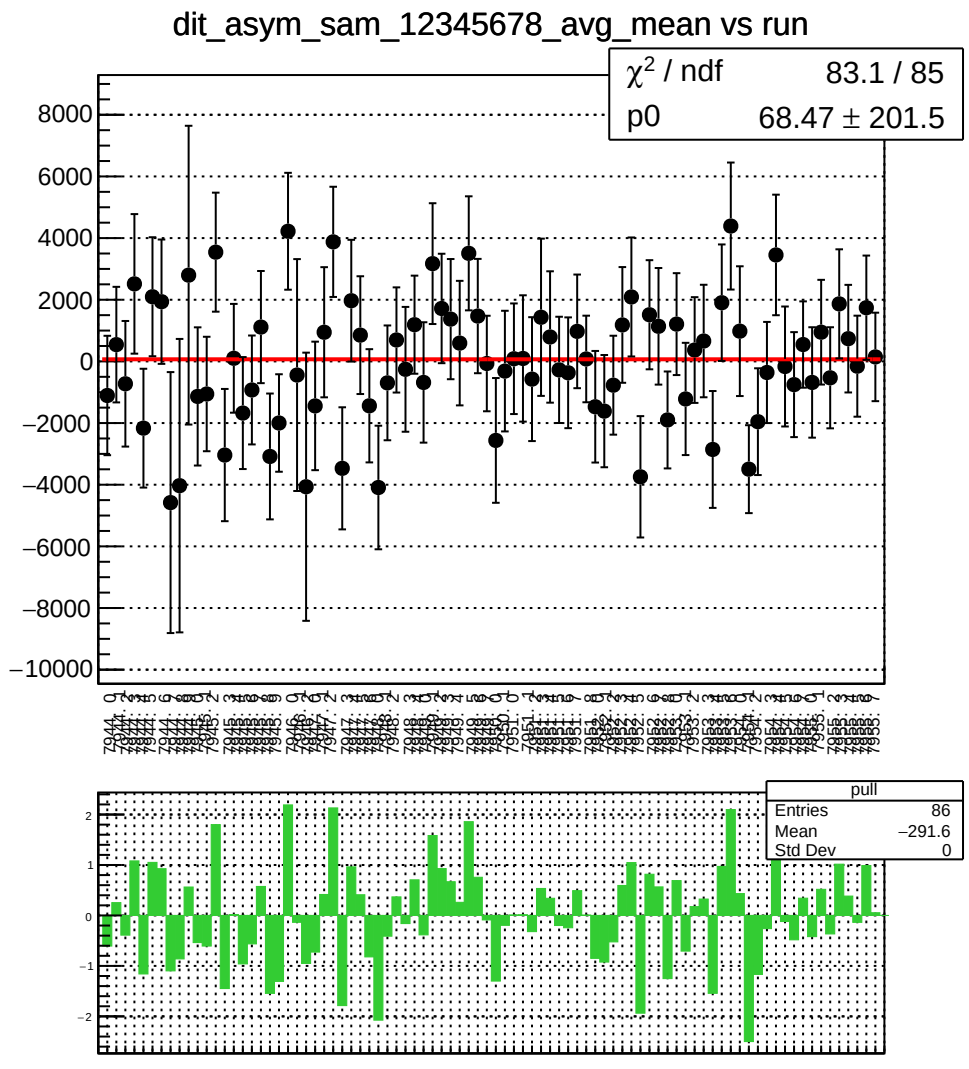

pull1D
Entries 86
Mean −0.003402
Std Dev 0.9919

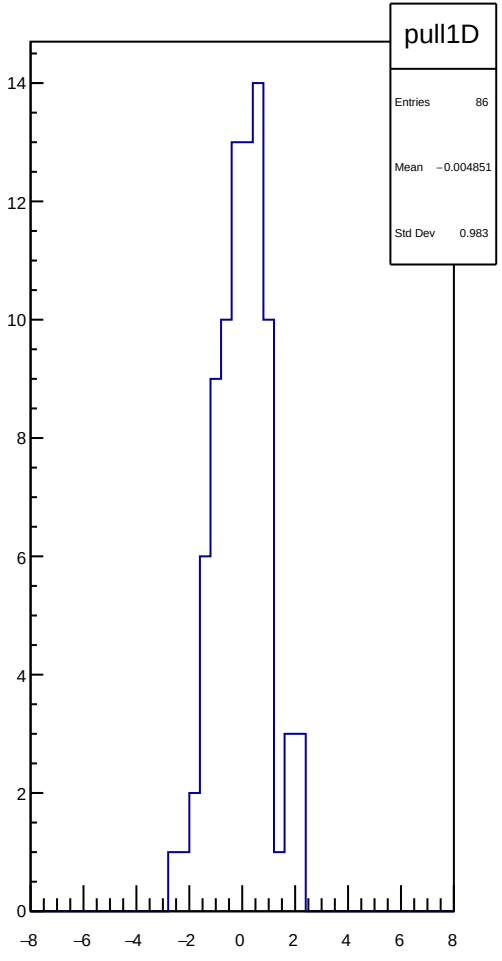

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 4.194e+04 / 85
p0 170.4 ± 0.1357
450
400
350
300
250
200
150
100

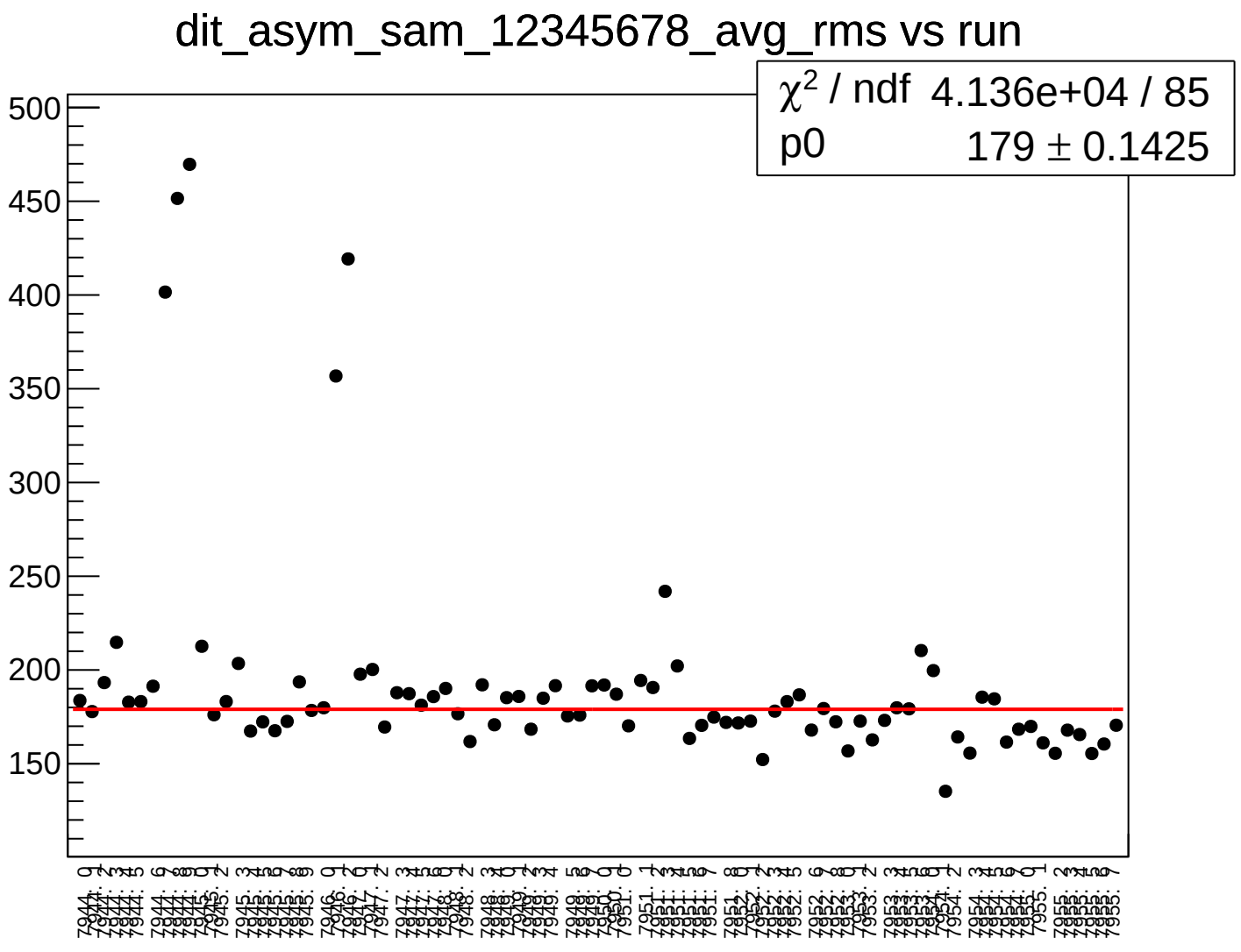

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.91 / 85
p0 −870.6 ± 1883
pull
Entries 86
Mean 1375
Std Dev 0

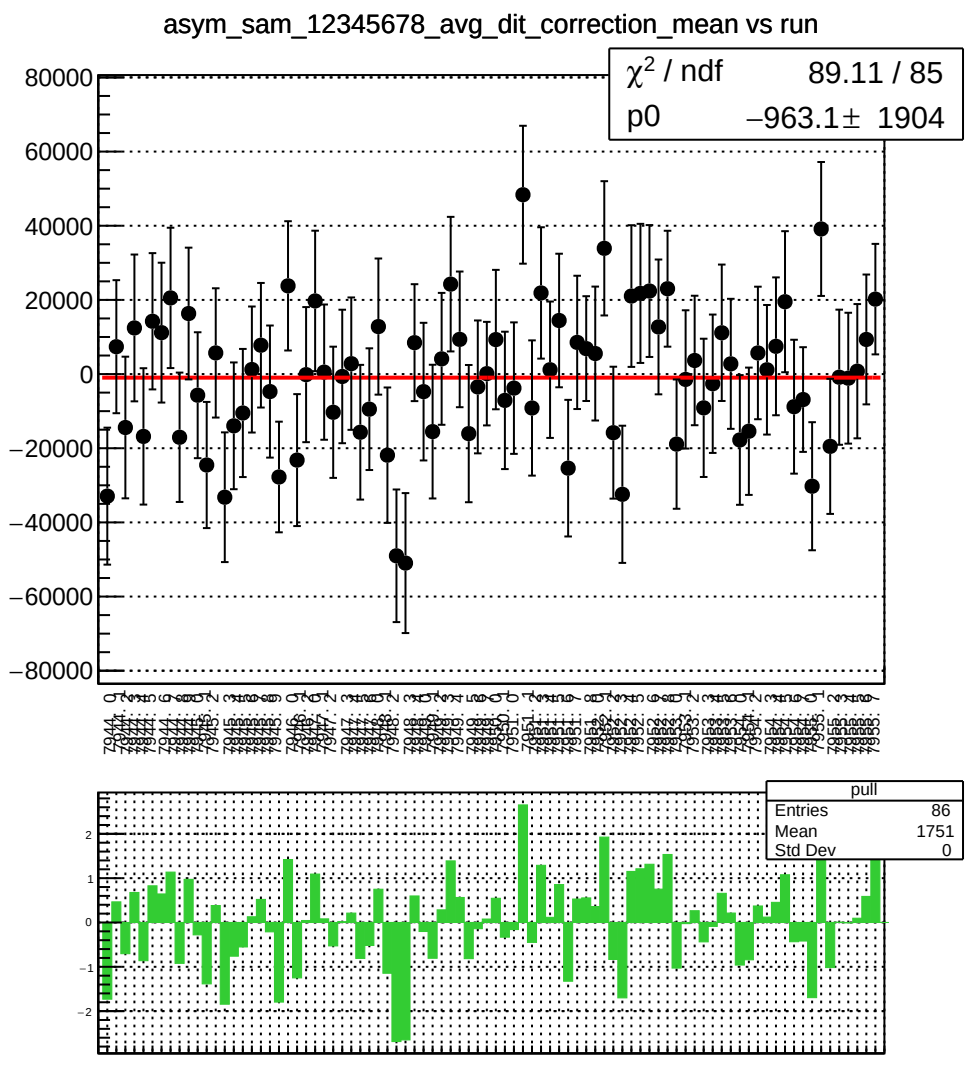

pull1D
Entries 86
Mean 0.003211
Std Dev 1.023

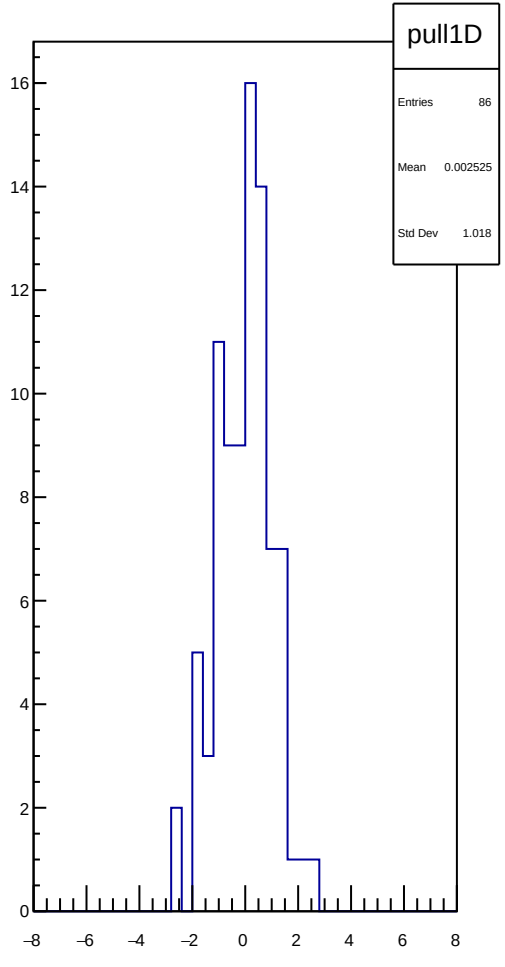

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1935 / 85
p0 1693 ± 1.331
1900
1850
1800
1750
1700
1650
1600
1550
1500

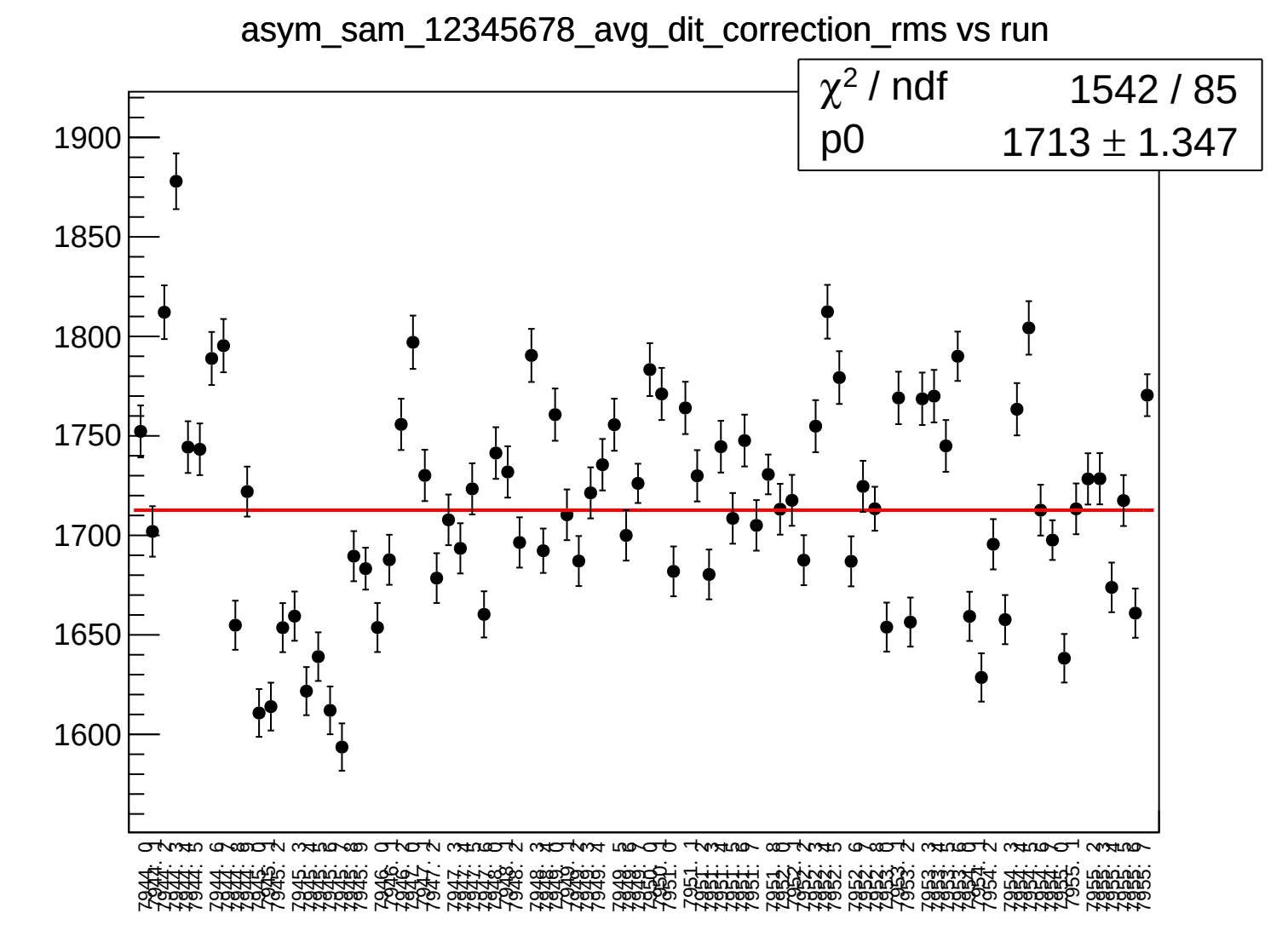

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 83.1 / 85
p0 68.47 ± 201.5
pull
Entries 86
Mean −291.6
Std Dev 0

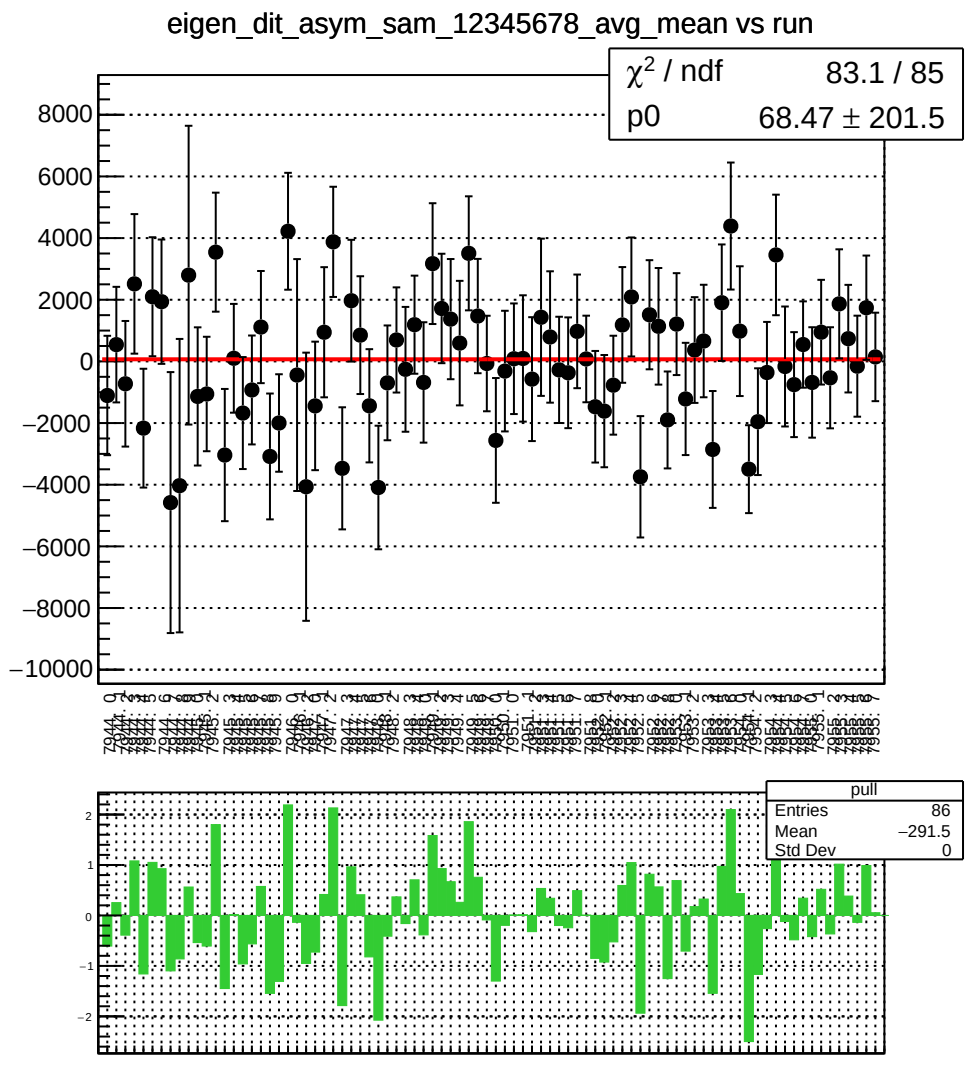

pull1D
Entries 86
Mean −0.004851
Std Dev 0.983

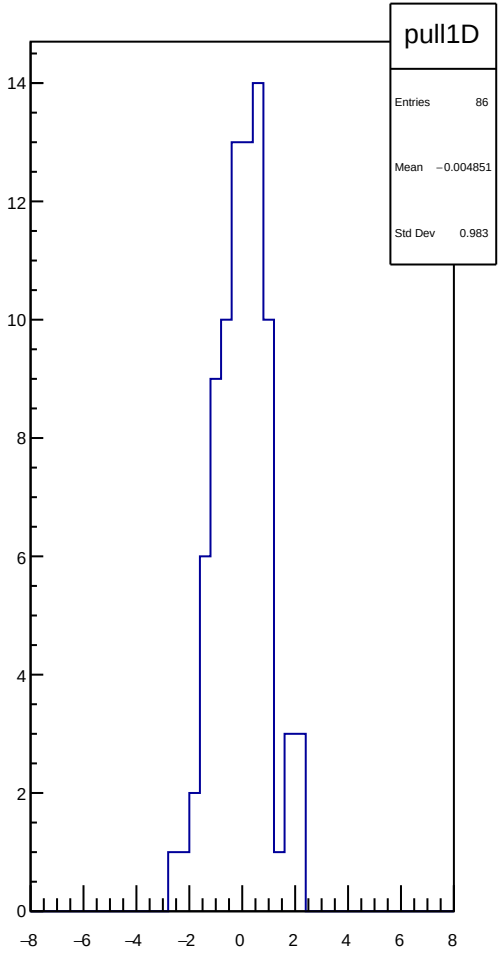

dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 4.136e+04 / 85
p0 179 ± 0.1425
500
450
400
350
300
250
200
150

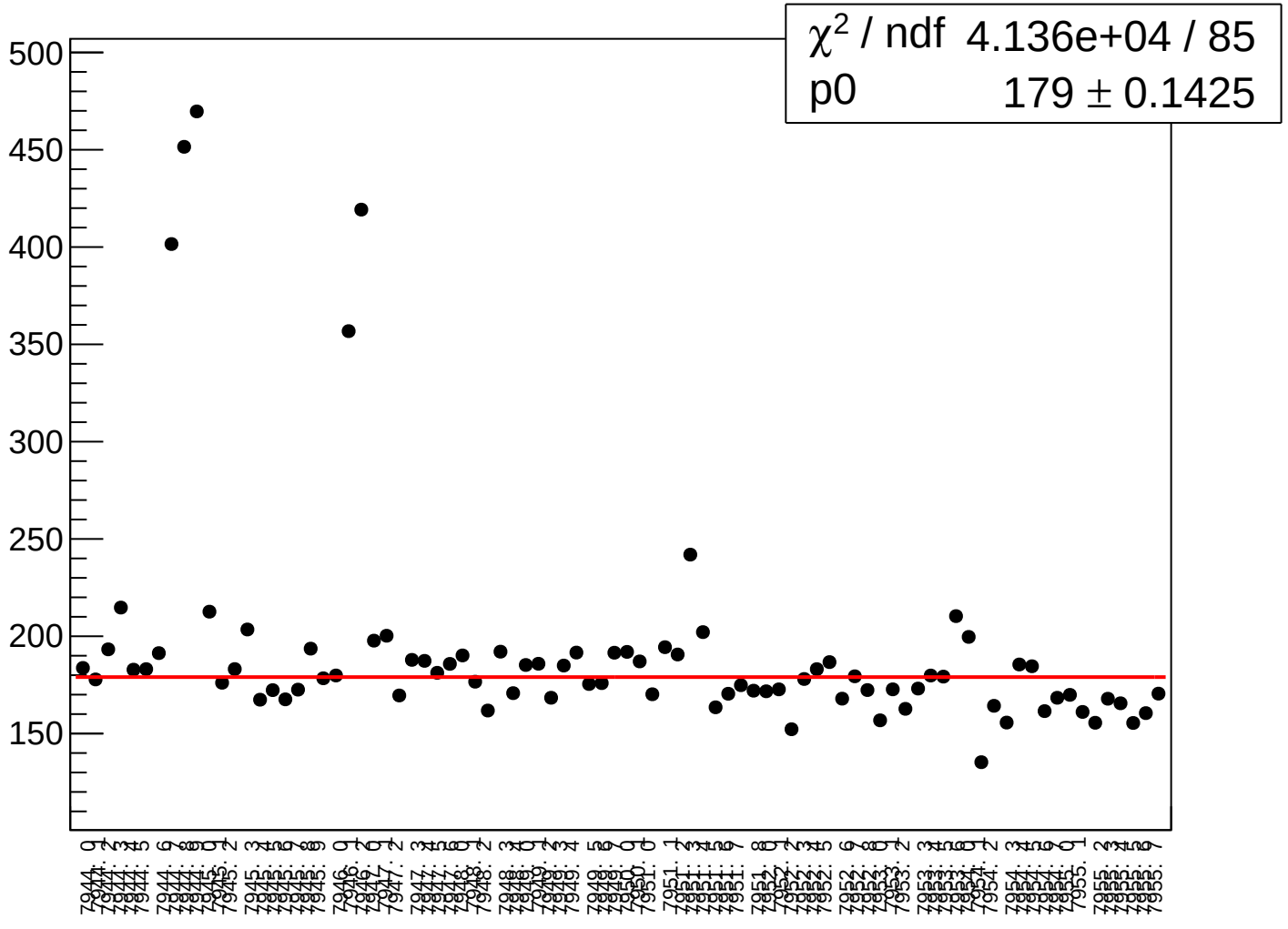

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 89.11 / 85
p0 −963.1± 1904
pull
Entries 86
Mean 1751
Std Dev 0

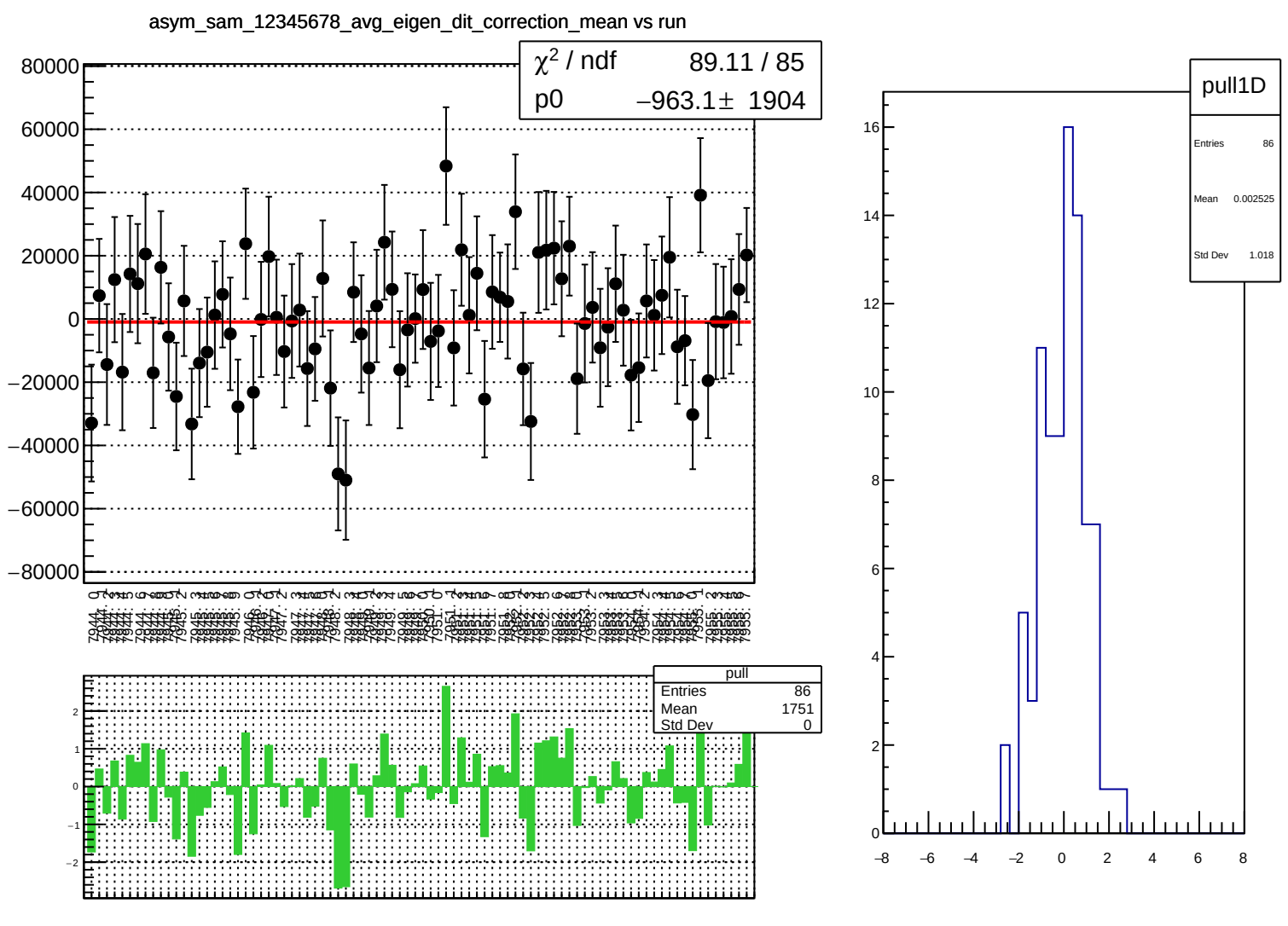

pull1D
Entries 86
Mean 0.002525
Std Dev 1.018

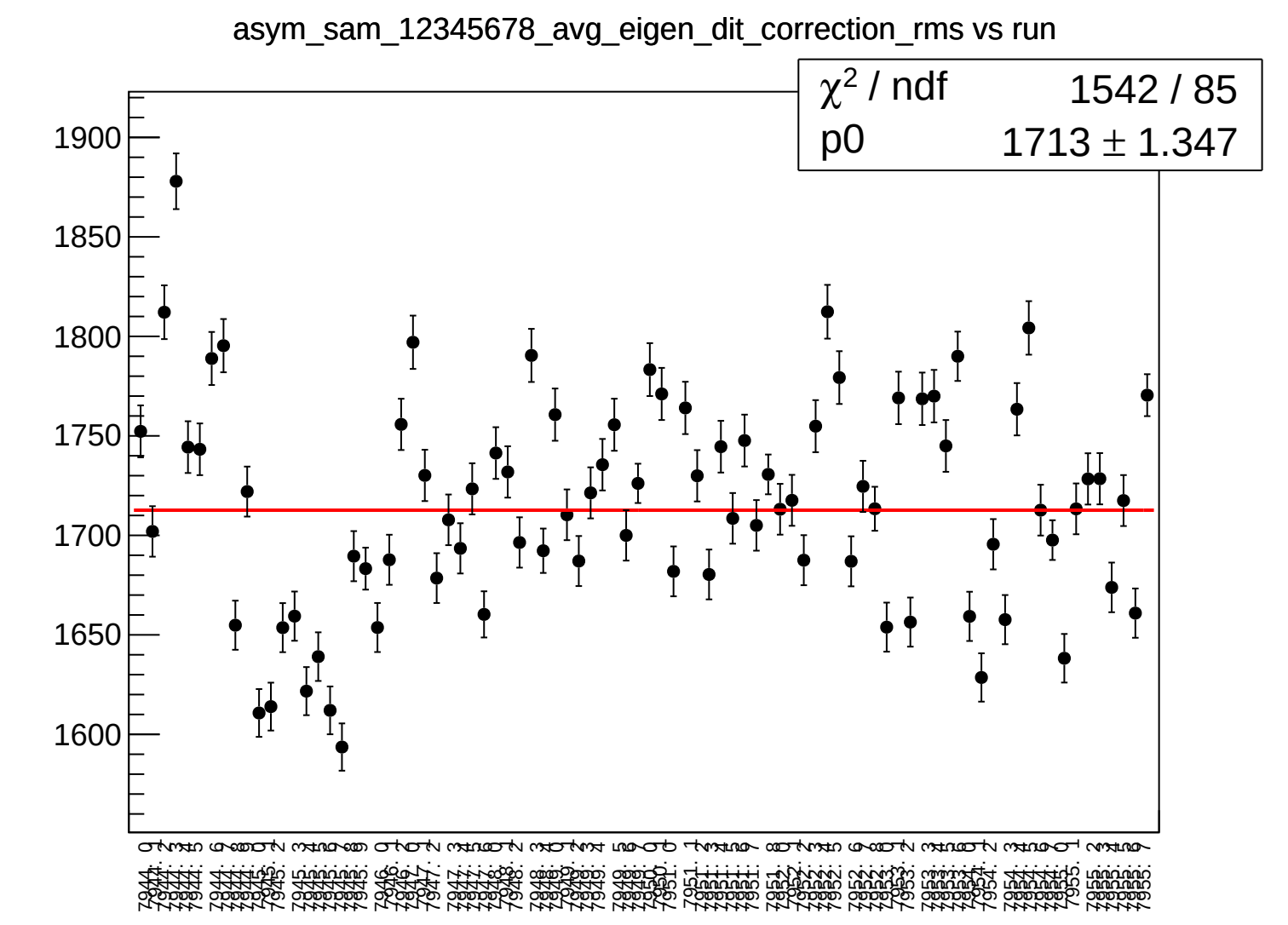

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1542 / 85
p0 1713 ± 1.347
1900
1850
1800
1750
1700
1650
1600

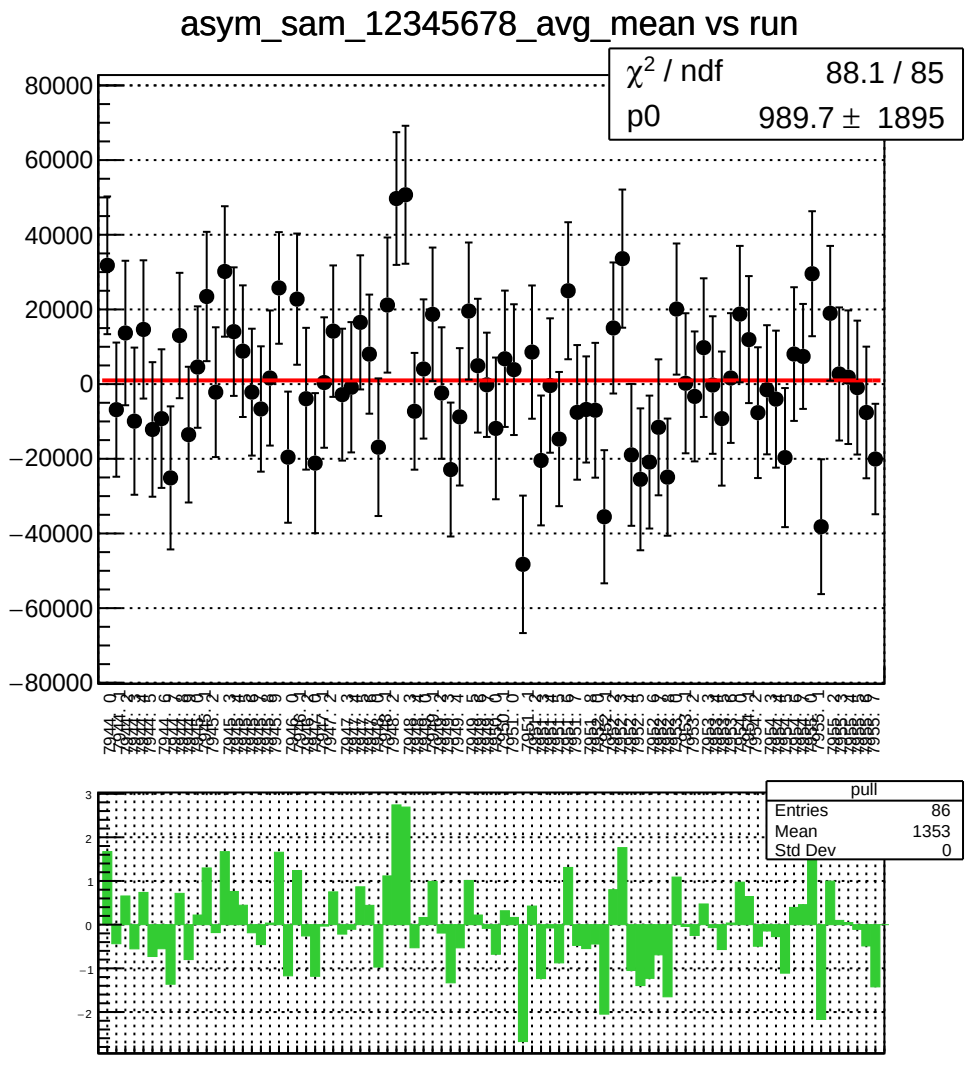

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 83.1 / 85
p0 68.47 ± 201.5
pull
Entries 86
Mean −291.5
Std Dev 0

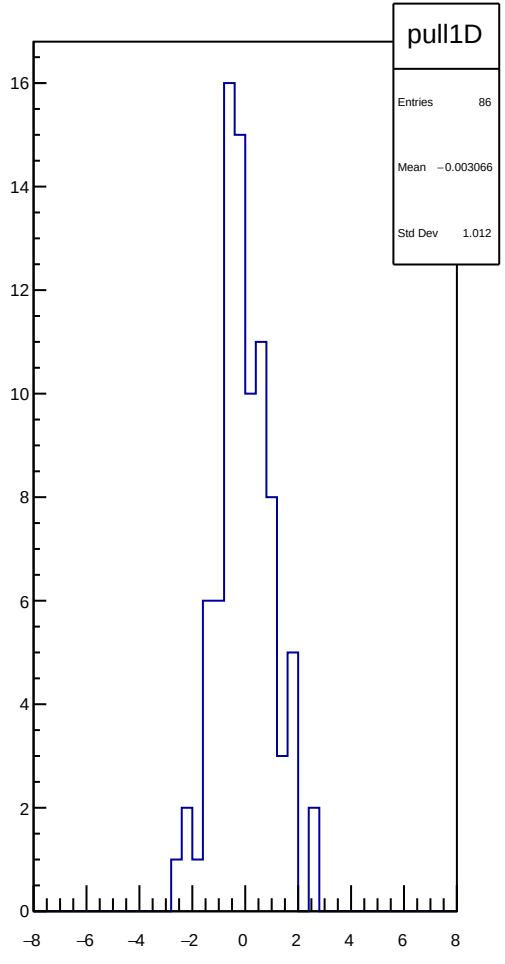

pull1D
Entries 86
Mean −0.004851
Std Dev 0.983

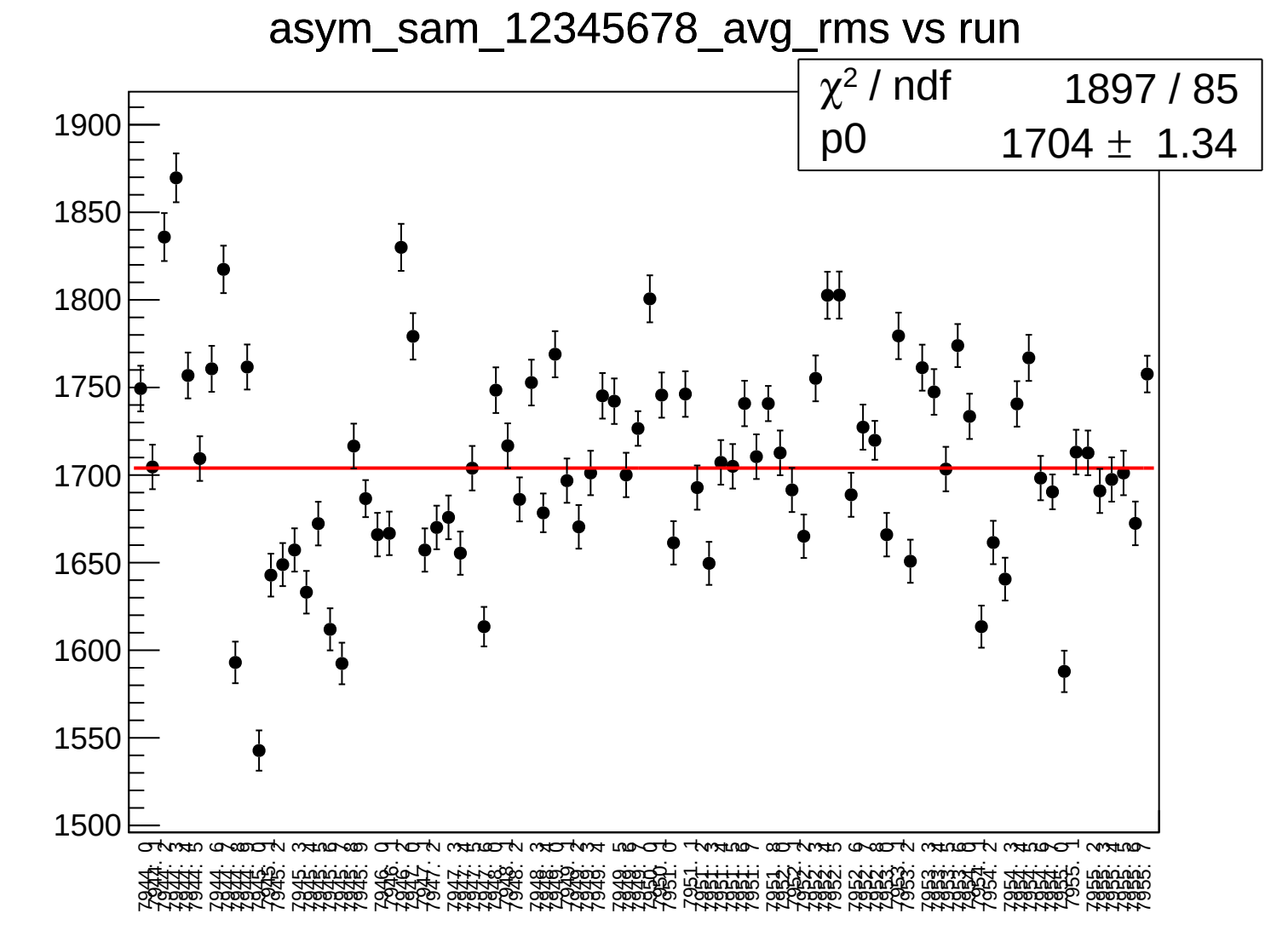

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.136e+04 / 85
p0 179 ± 0.1425
500
450
400
350
300
250
200
150

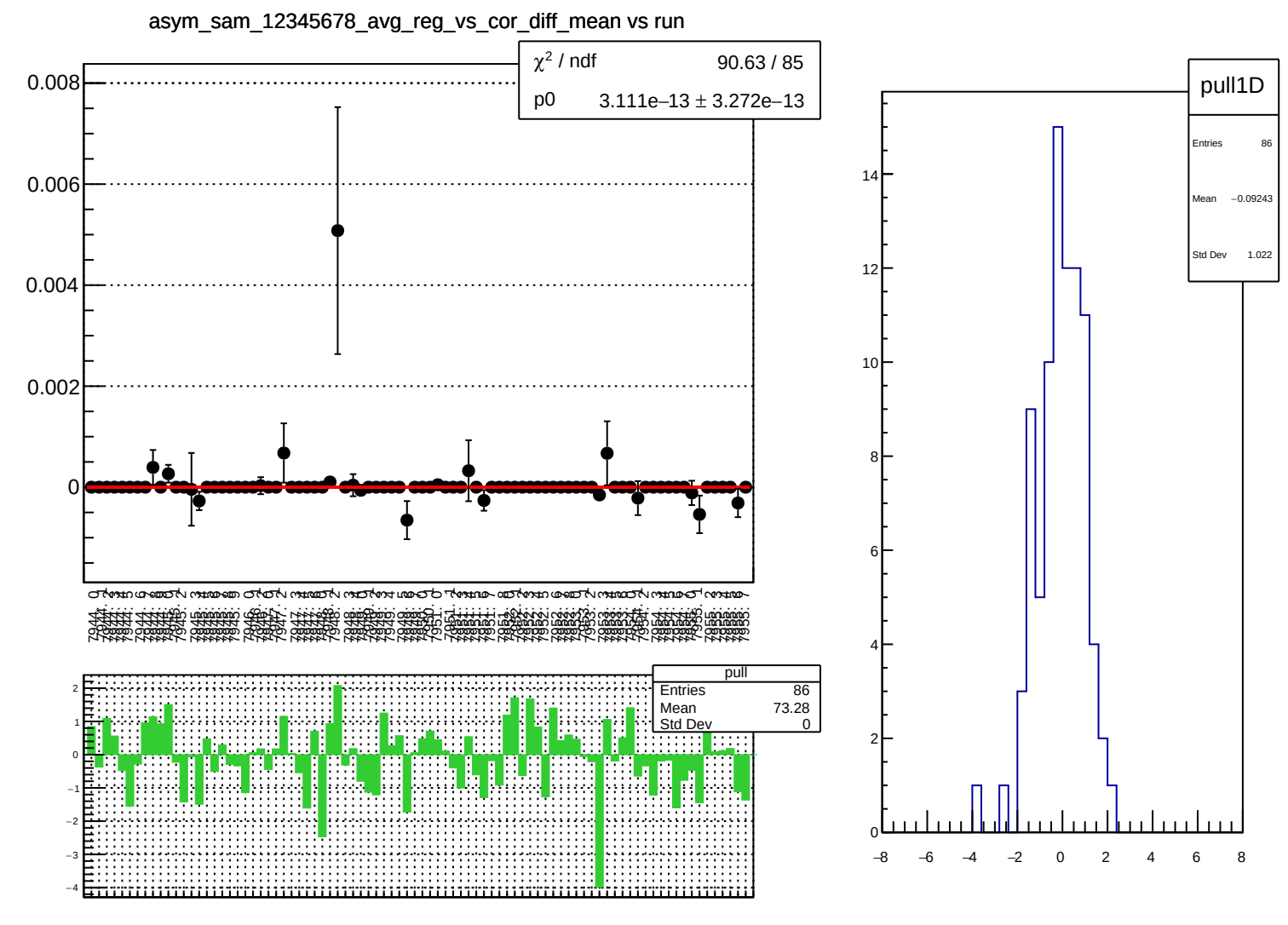

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.11 / 85
p0 −963.1± 1904
pull
Entries 86
Mean 1751
Std Dev 0
pull1D
Entries 86
Mean 0.002525
Std Dev 1.018

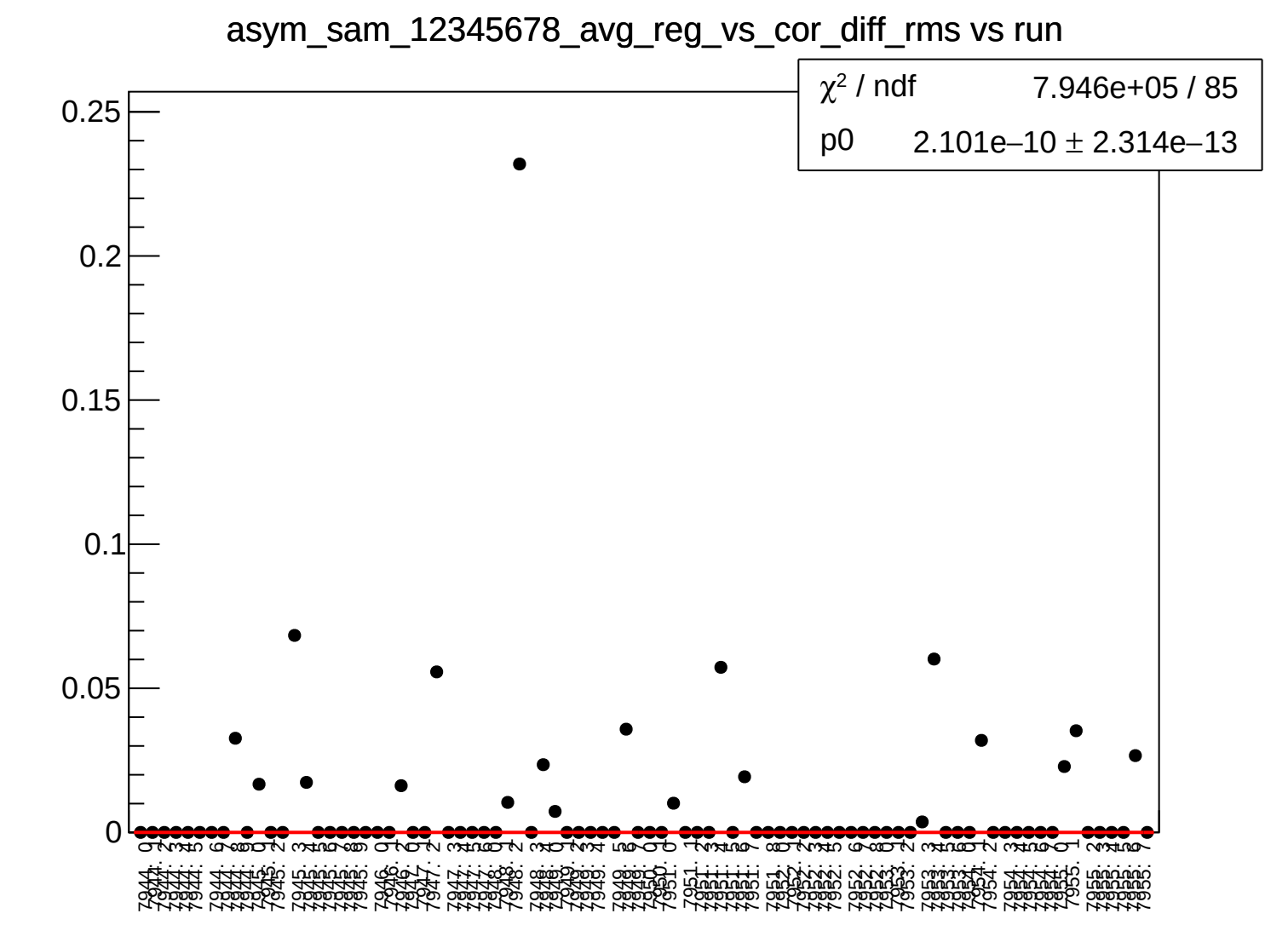

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1542 / 85
p0 1713 ± 1.347
1900
1850
1800
1750
1700
1650
1600

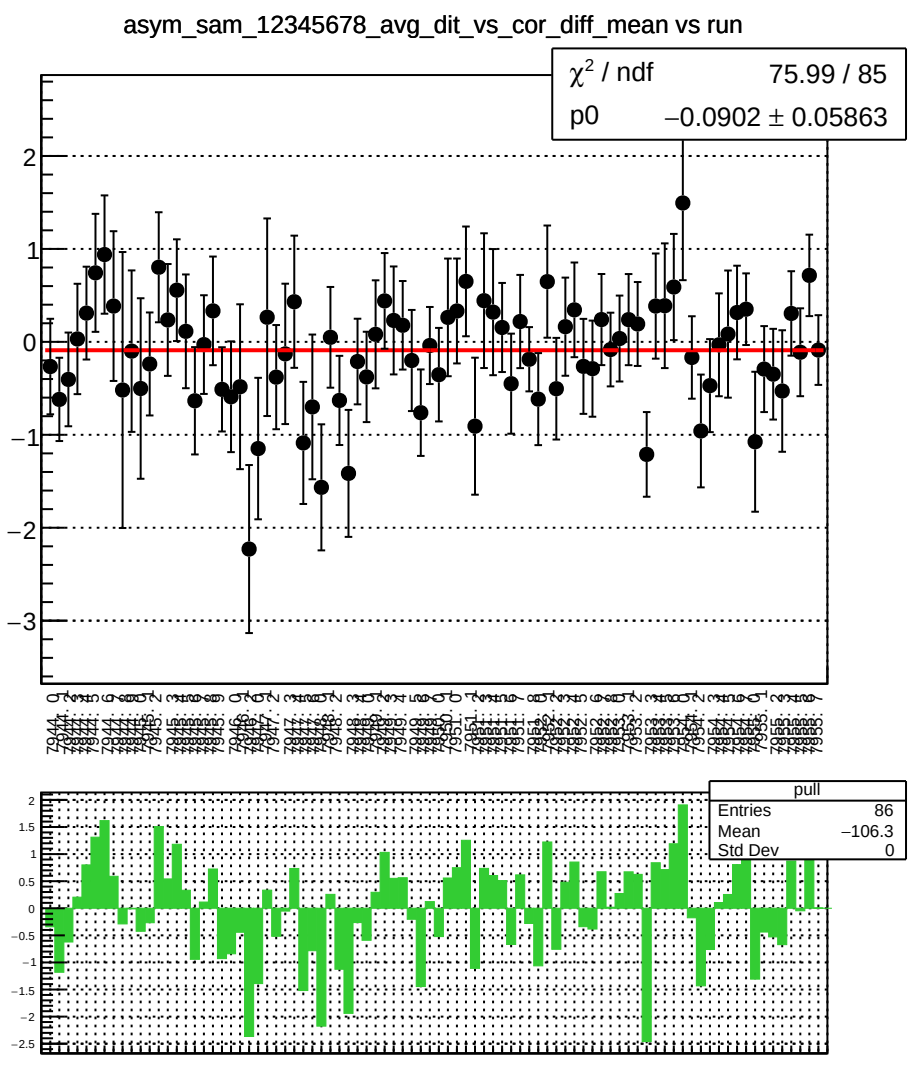

asym_sam_12345678_avg_mean vs run
χ² / ndf 88.1 / 85
p0 989.7 ± 1895
pull
Entries 86
Mean 1353
Std Dev 0

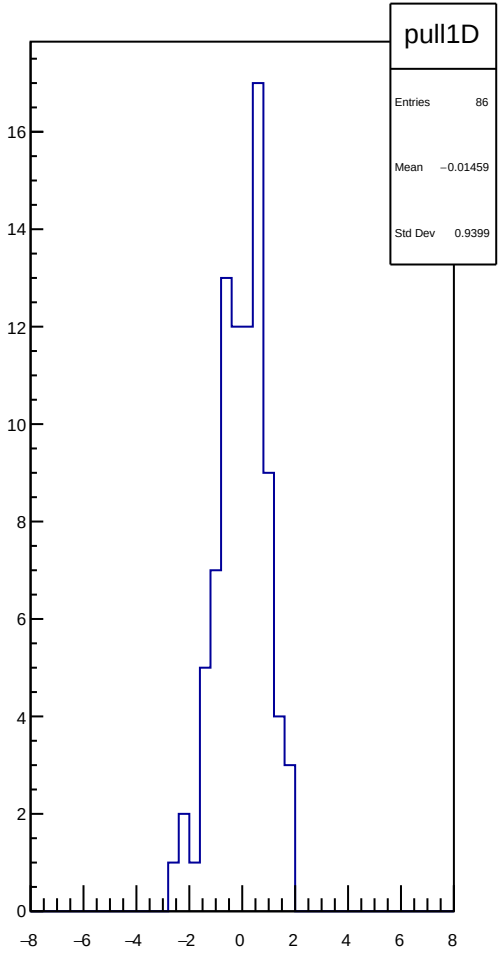

pull1D
Entries 86
Mean −0.003066
Std Dev 1.012

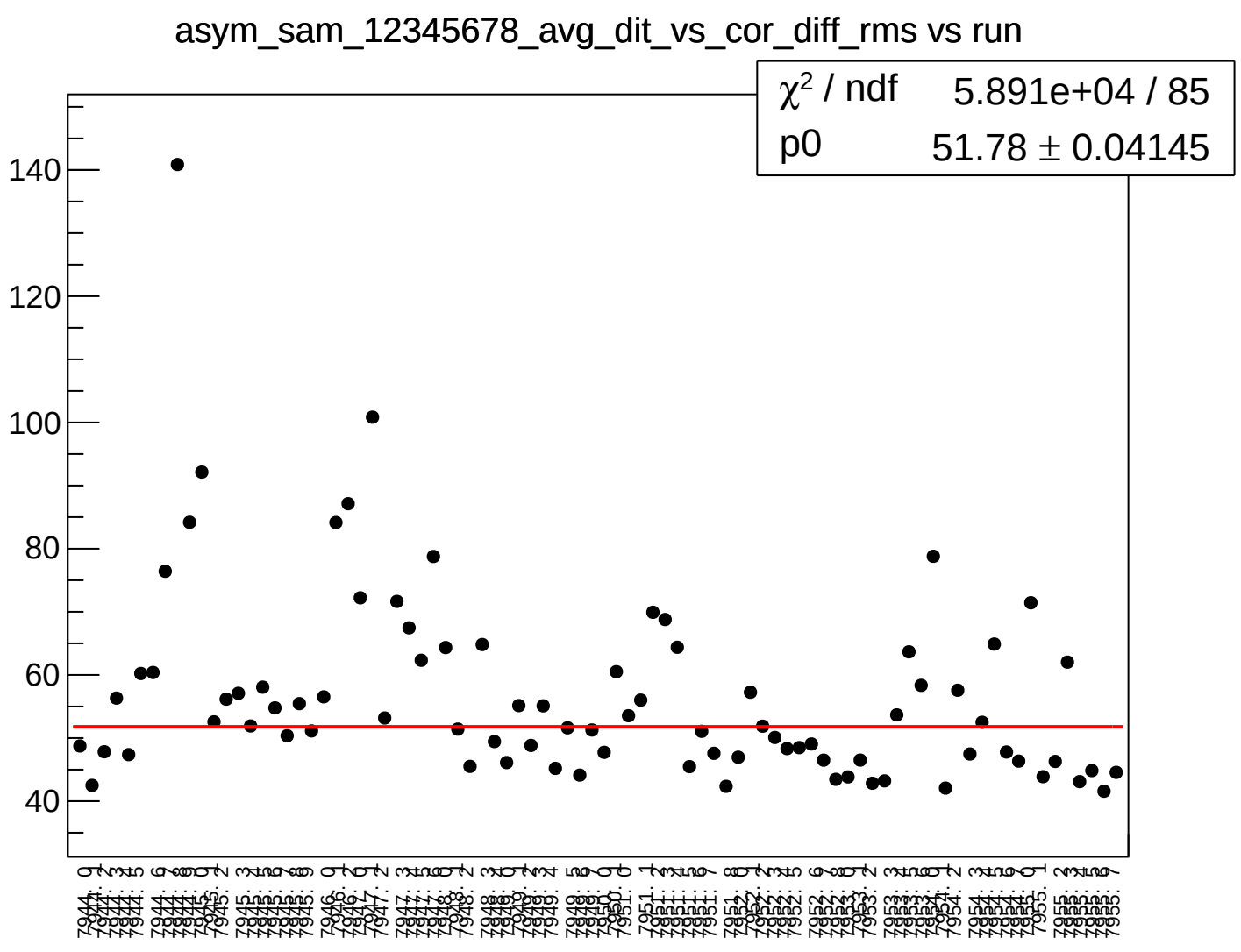

asym_sam_12345678_avg_rms vs run
χ² / ndf 1897 / 85
p0 1704 ± 1.34
1900
1850
1800
1750
1700
1650
1600
1550
1500

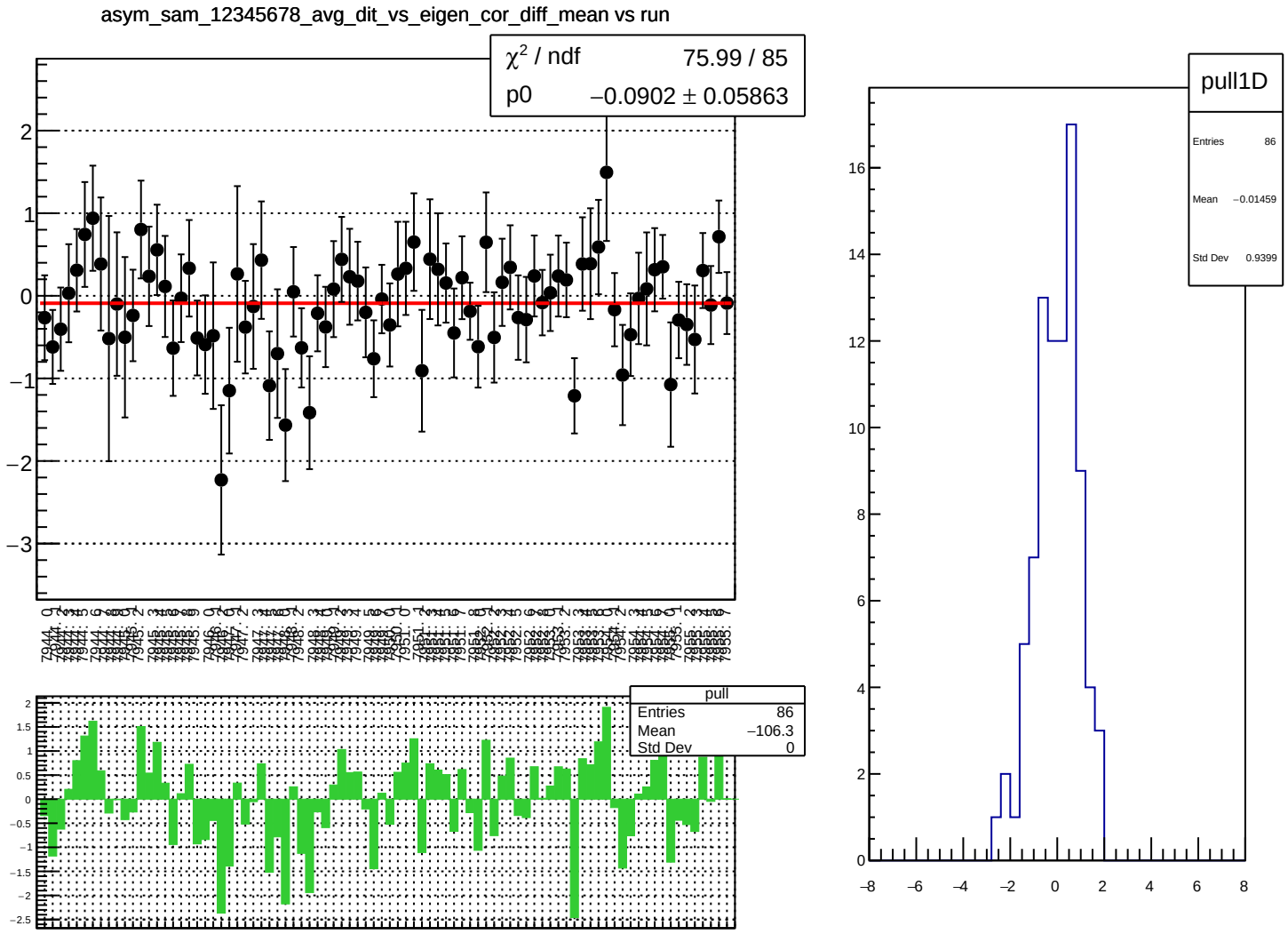

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.63 / 85
p0 3.111e−13 ± 3.272e−13
0.008
0.006
0.004
0.002
0
pull
Entries 86
Mean 73.28
Std Dev 0
pull1D
Entries 86
Mean −0.09243
Std Dev 1.022

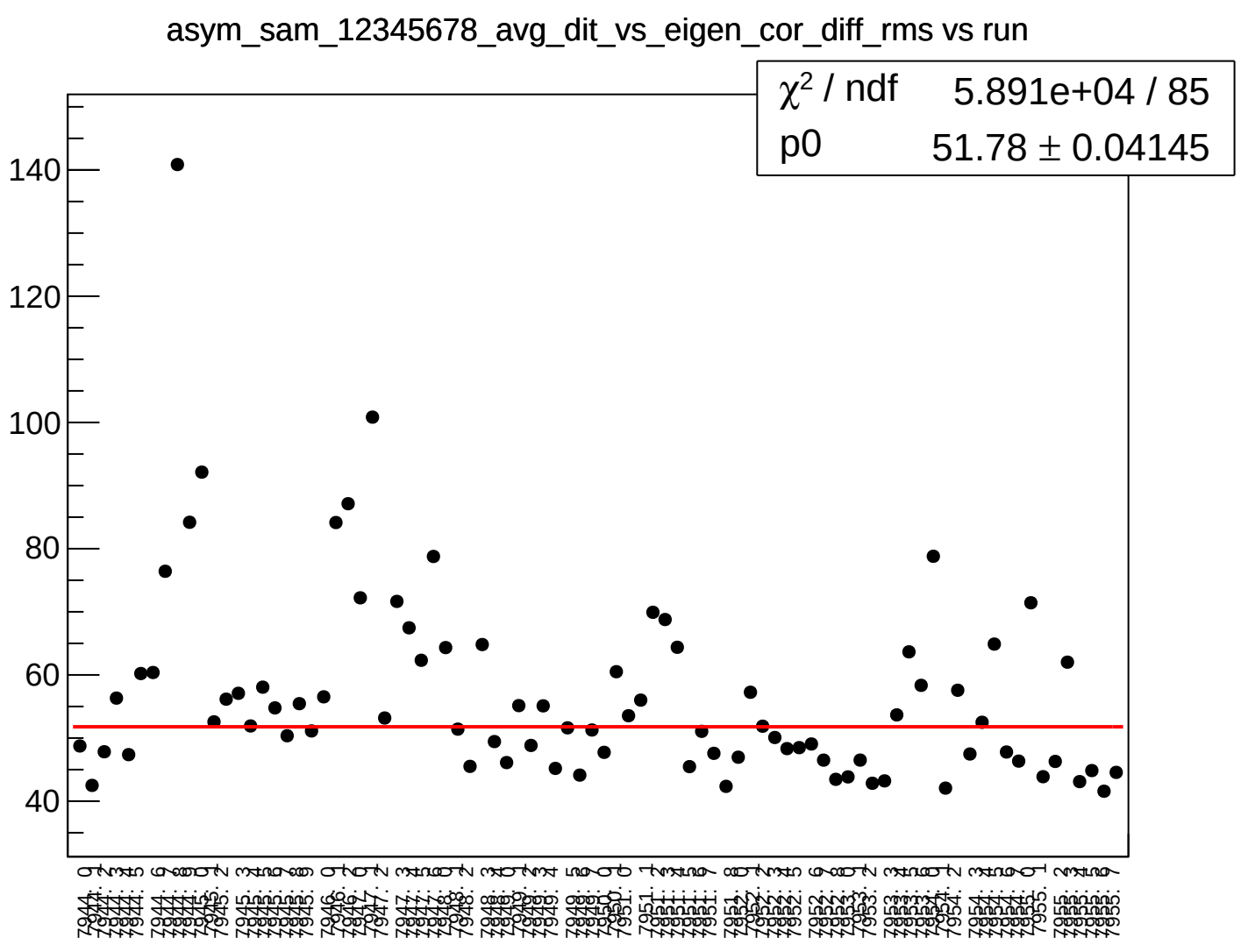

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.946e+05 / 85
p0 2.101e−10 ± 2.314e−13
0.25
0.2
0.15
0.1
0.05
0

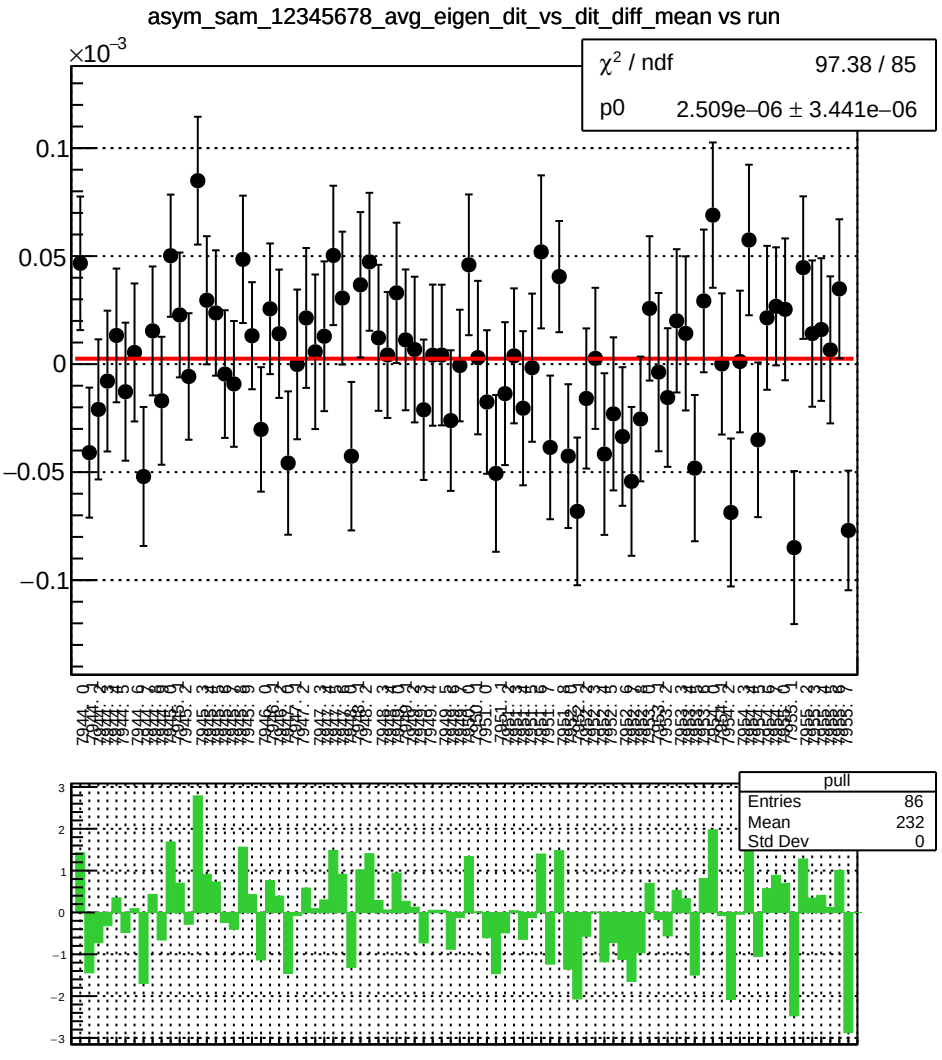

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.99 / 85
p0 −0.0902 ± 0.05863
pull
Entries 86
Mean −106.3
Std Dev 0

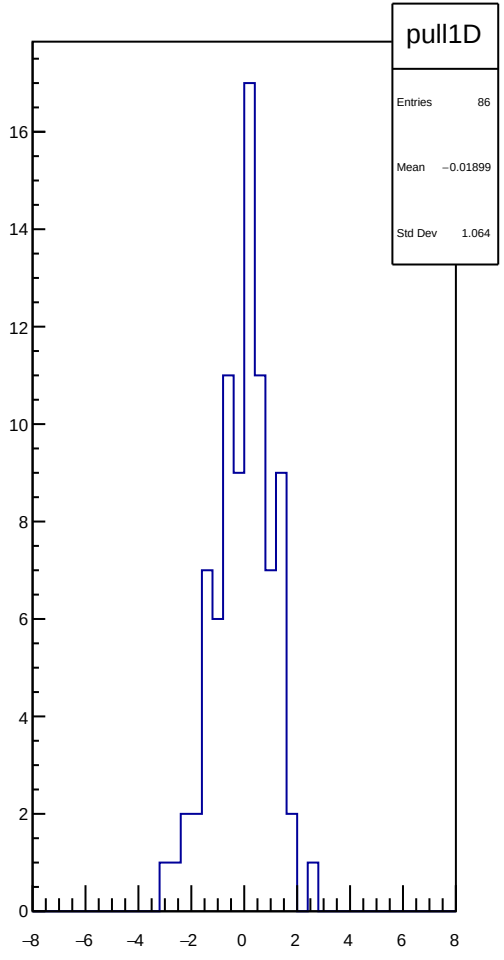

pull1D
Entries 86
Mean −0.01459
Std Dev 0.9399

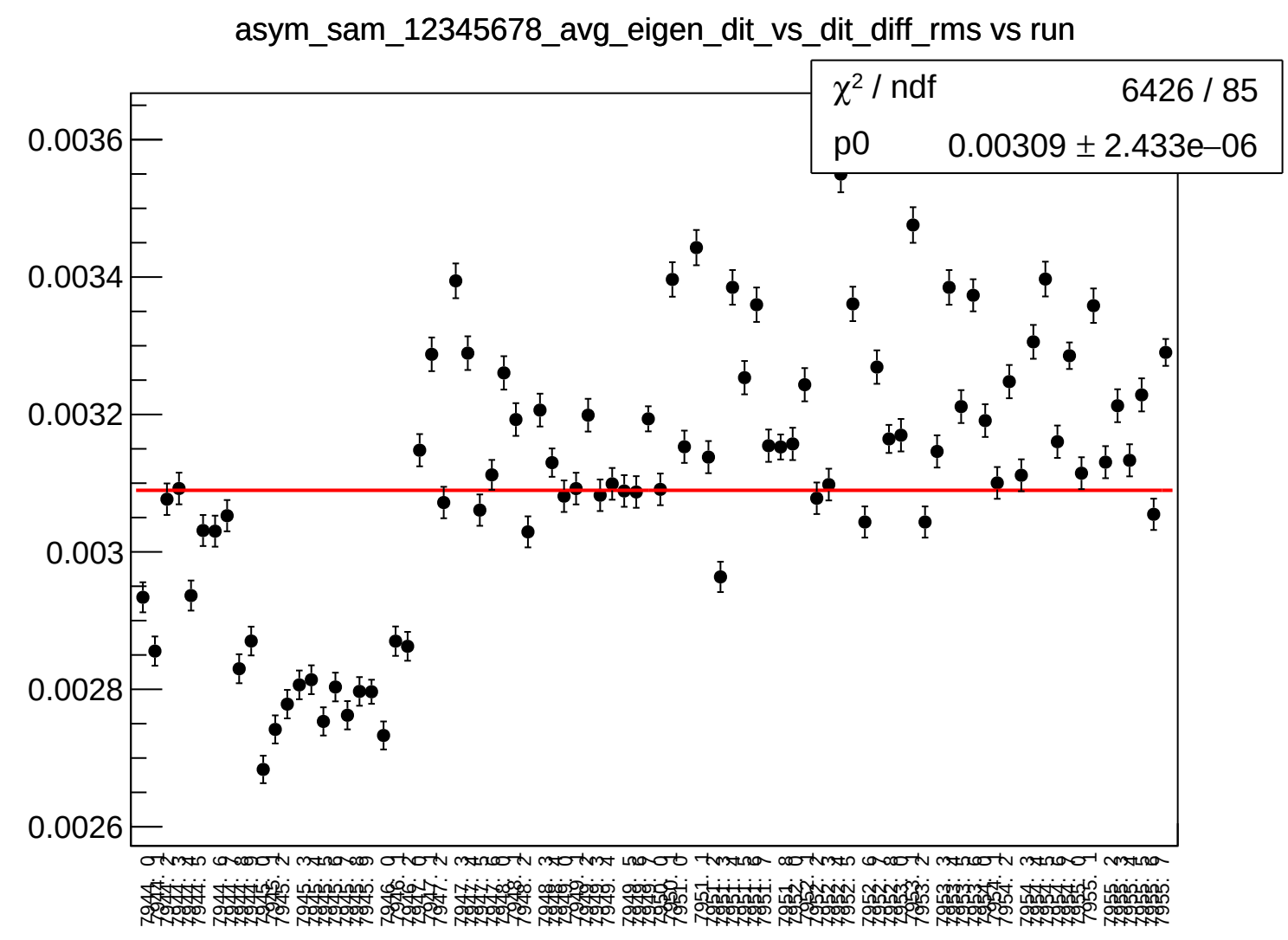

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.891e+04 / 85
p0 51.78 ± 0.04145
140
120
100
80
60
40


asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.99 / 85
p0 −0.0902 ± 0.05863
pull
Entries 86
Mean −106.3
Std Dev 0
pull1D
Entries 86
Mean −0.01459
Std Dev 0.9399

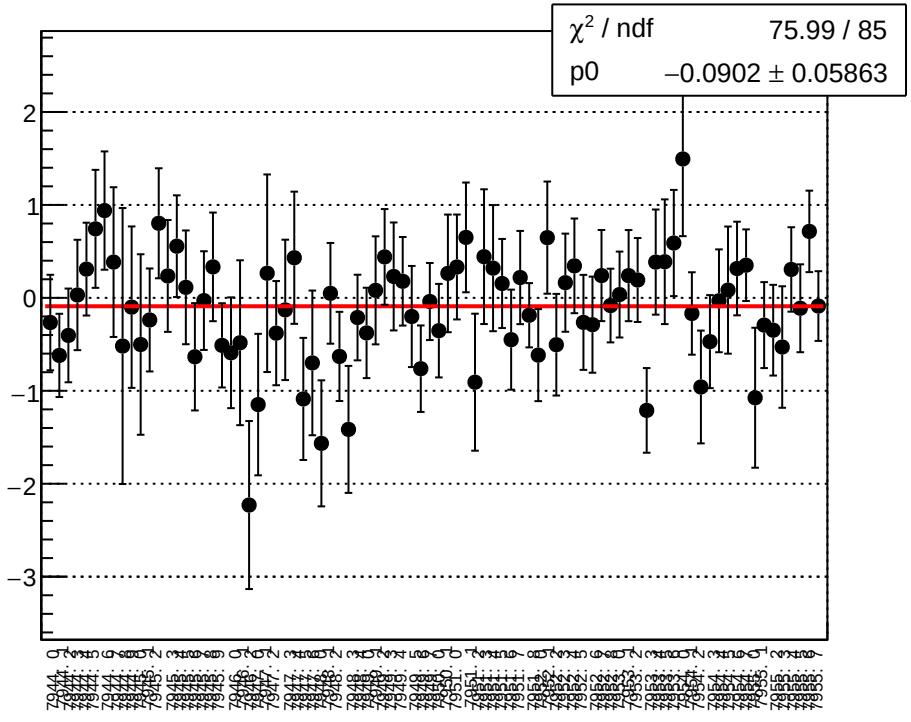

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.891e+04 / 85
p0 51.78 ± 0.04145
140
120
100
80
60
40

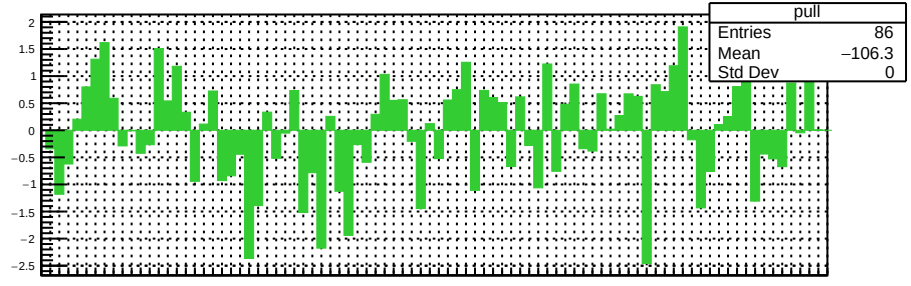

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.38 / 85
p0 2.509e−06 ± 3.441e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 232
Std Dev 0
3
2
1
0
−1
−2
−3

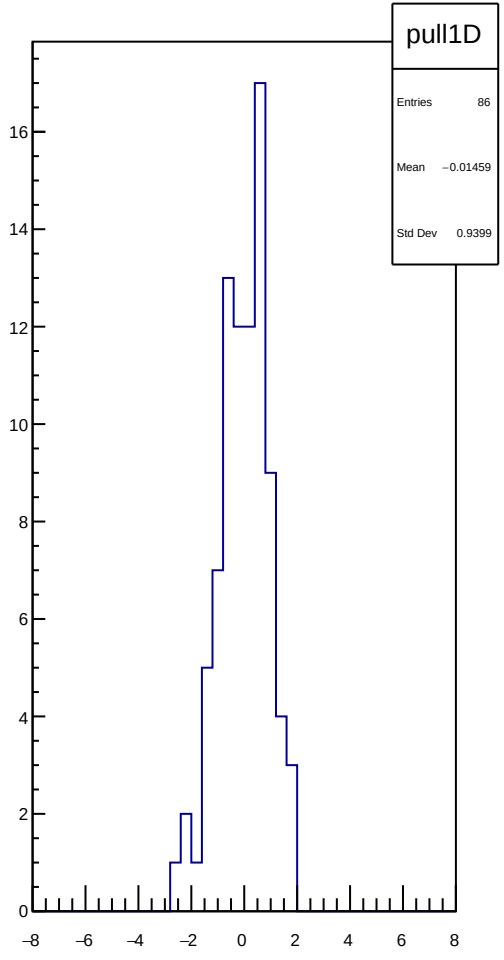

pull1D
Entries 86
Mean −0.01899
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

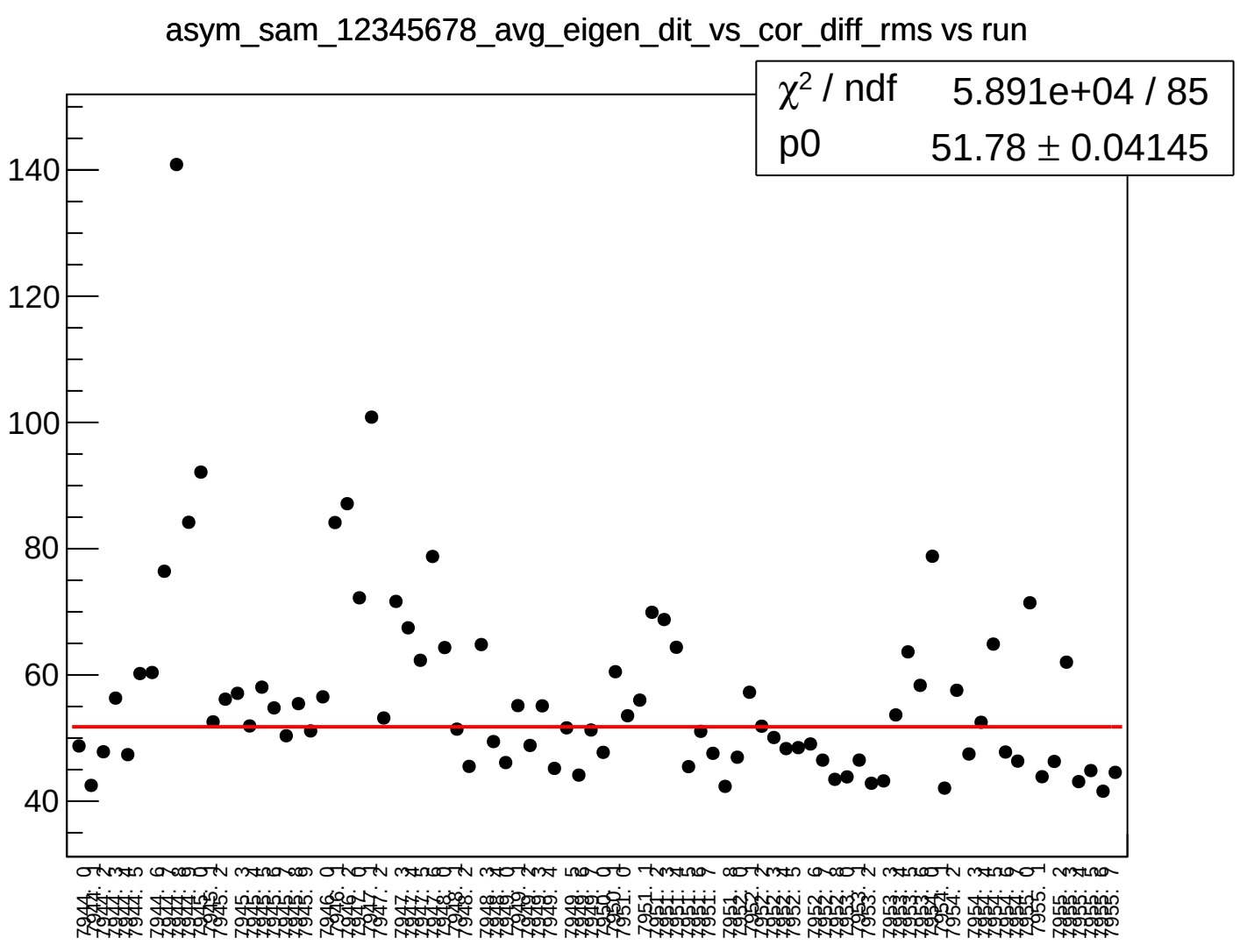

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6426 / 85
p0 0.00309 ± 2.433e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

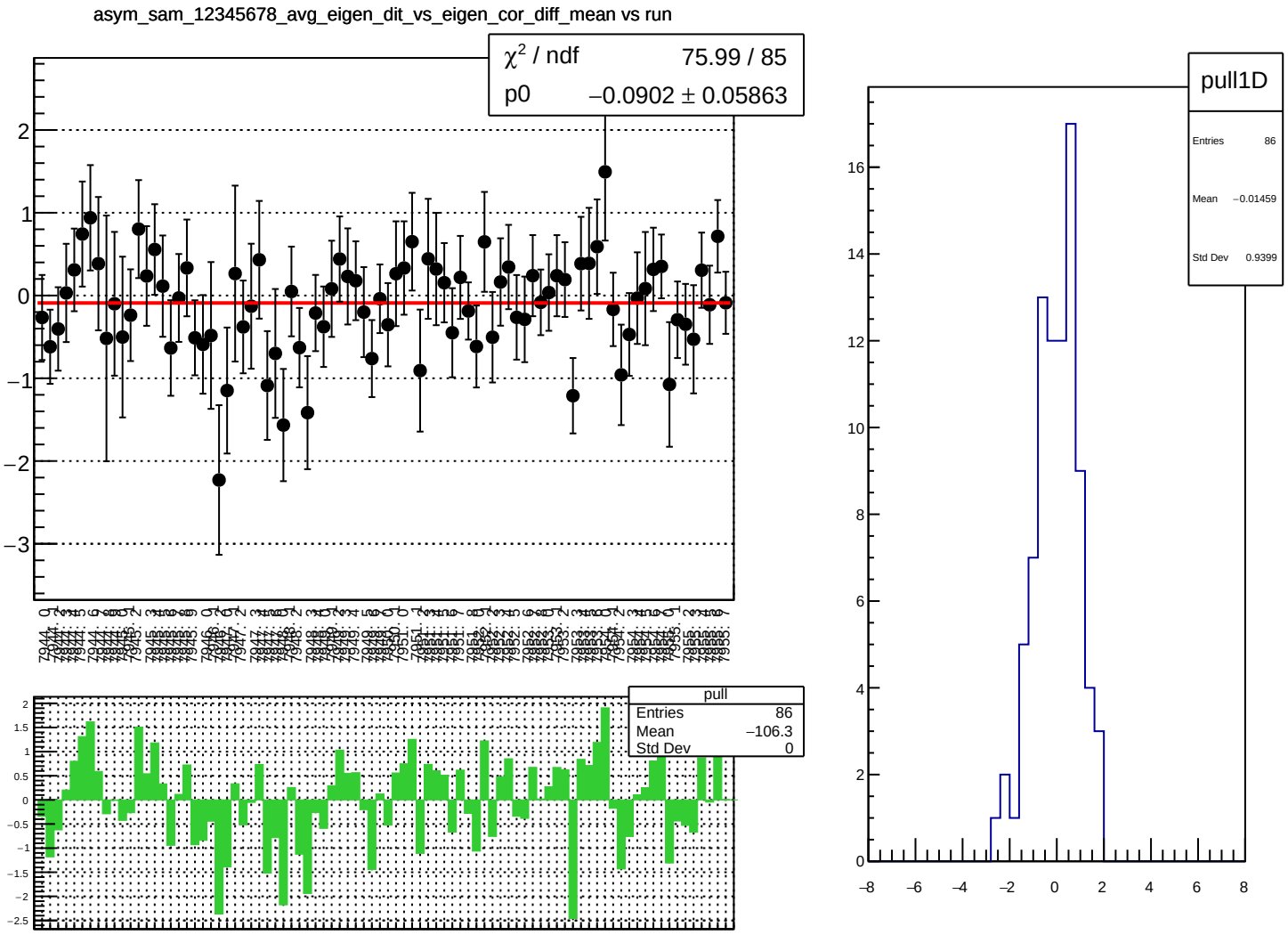
asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run

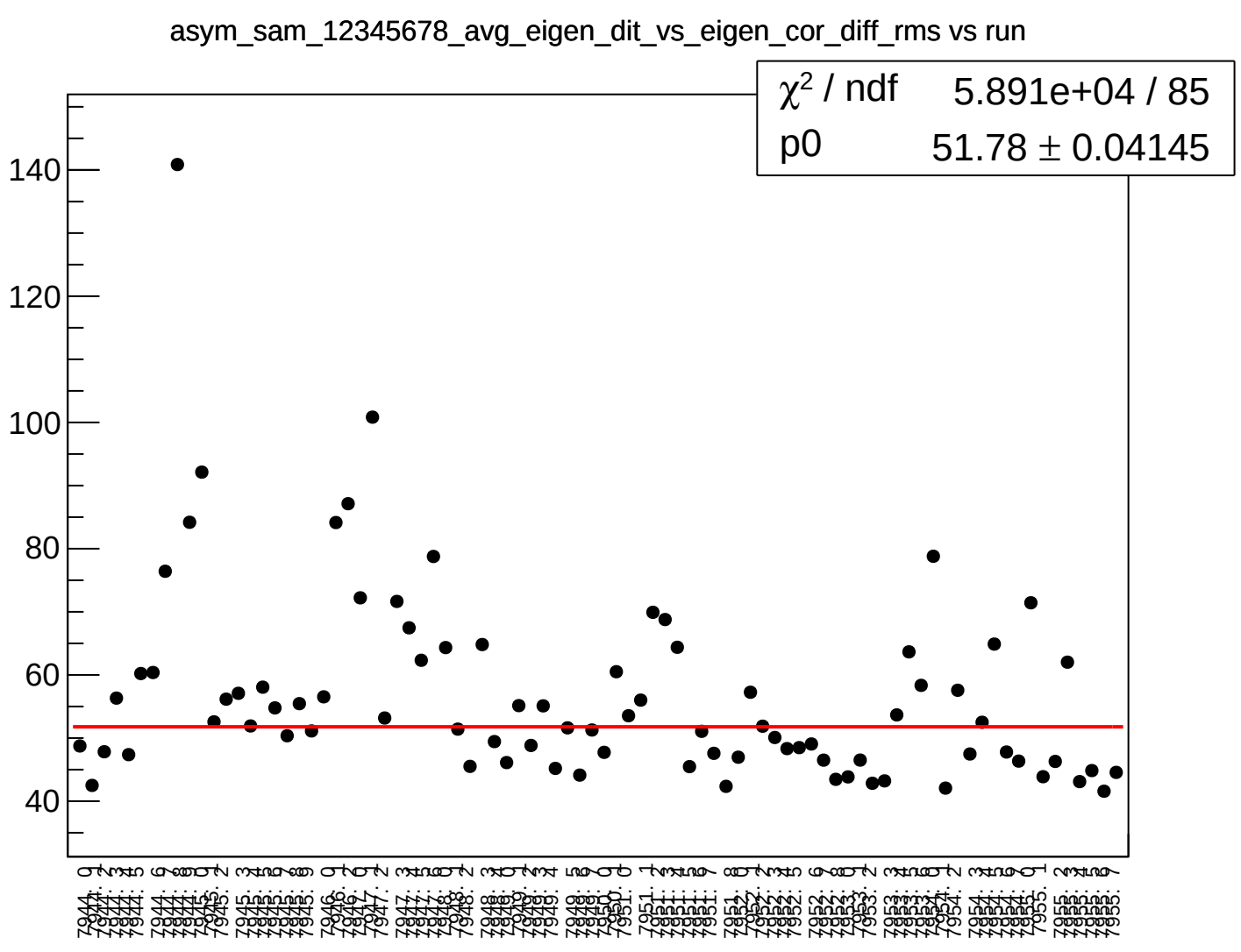


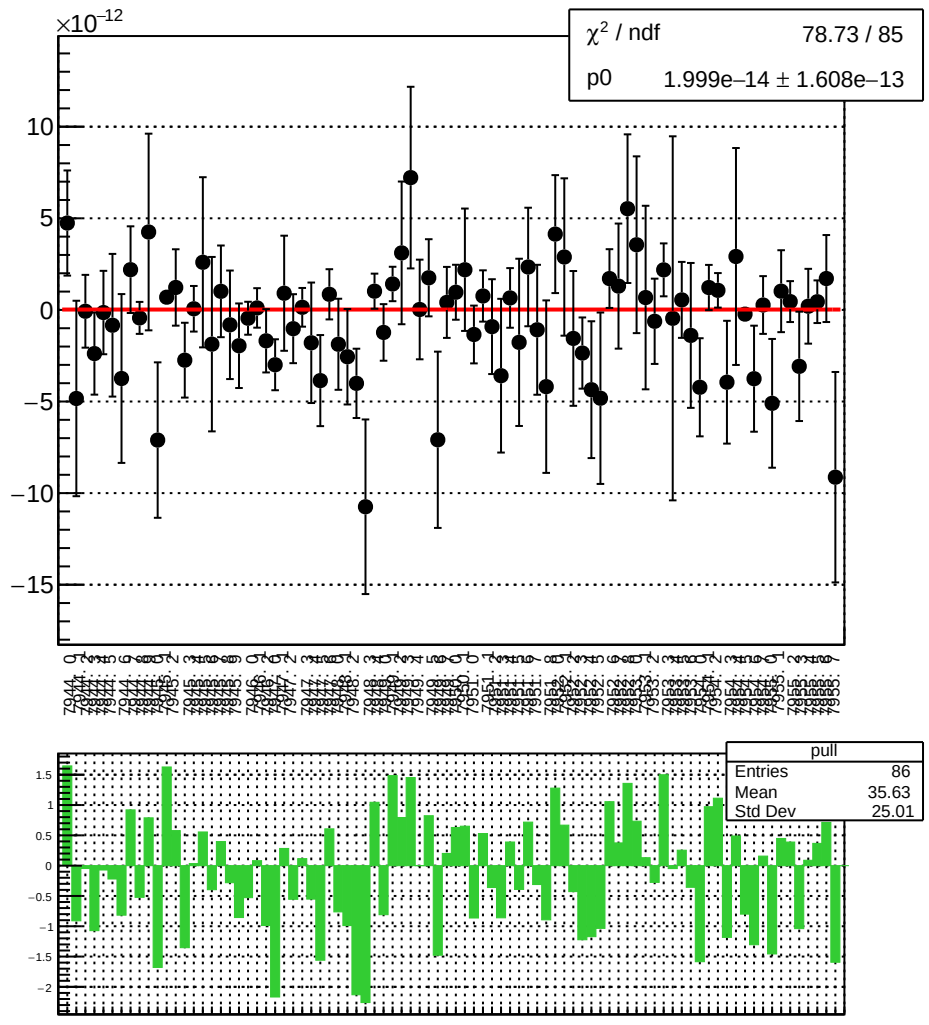


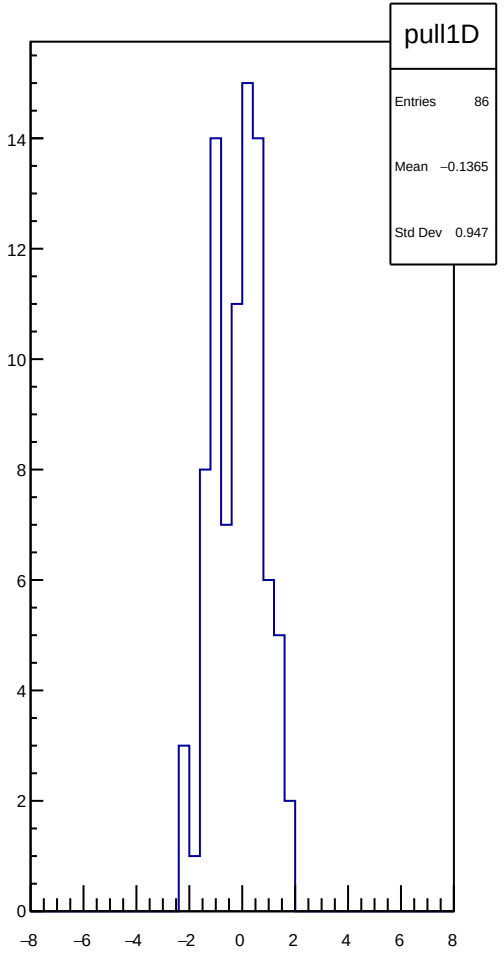


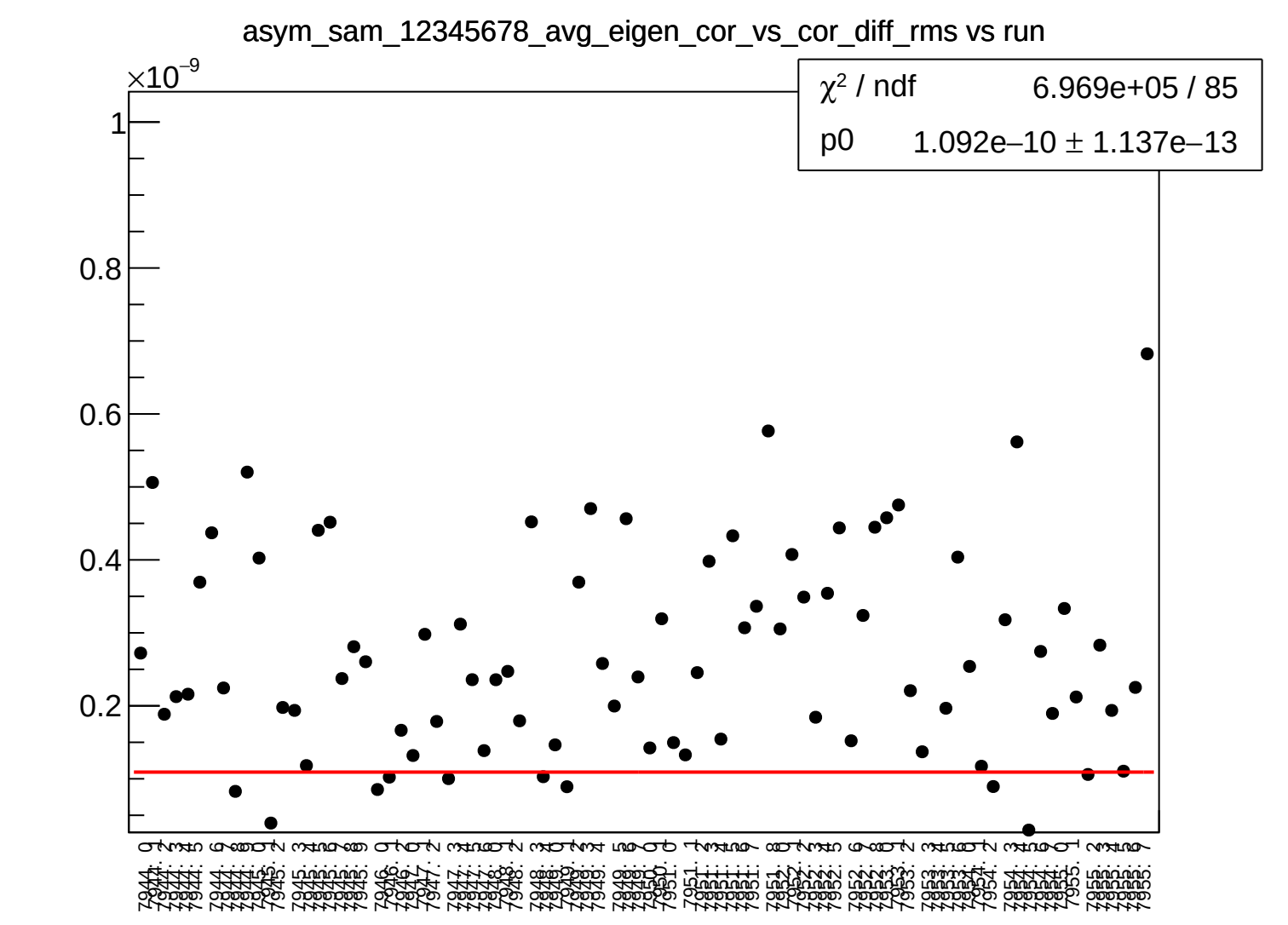

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.891e+04 / 85
p0 51.78 ± 0.04145
140
120
100
80
60
40

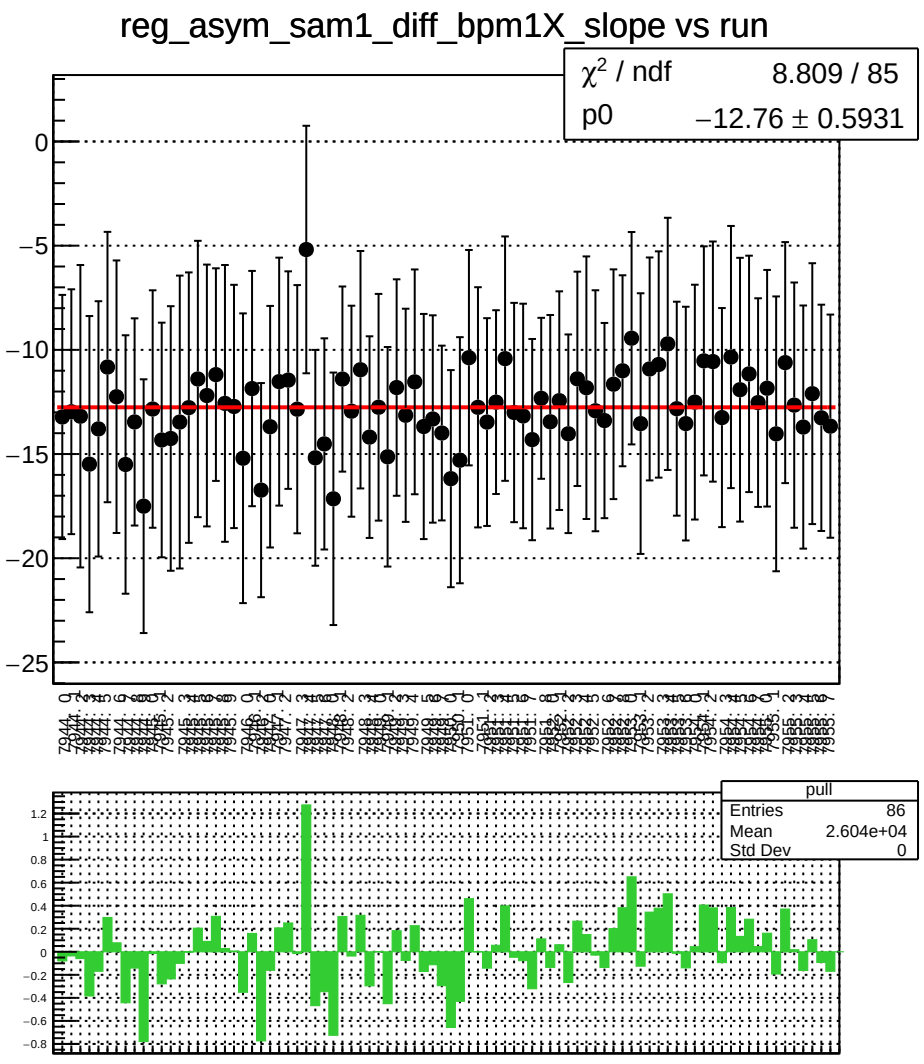

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.99 / 85
p0 −0.0902 ± 0.05863
pull
Entries 86
Mean −106.3
Std Dev 0
pull1D
Entries 86
Mean −0.01459
Std Dev 0.9399

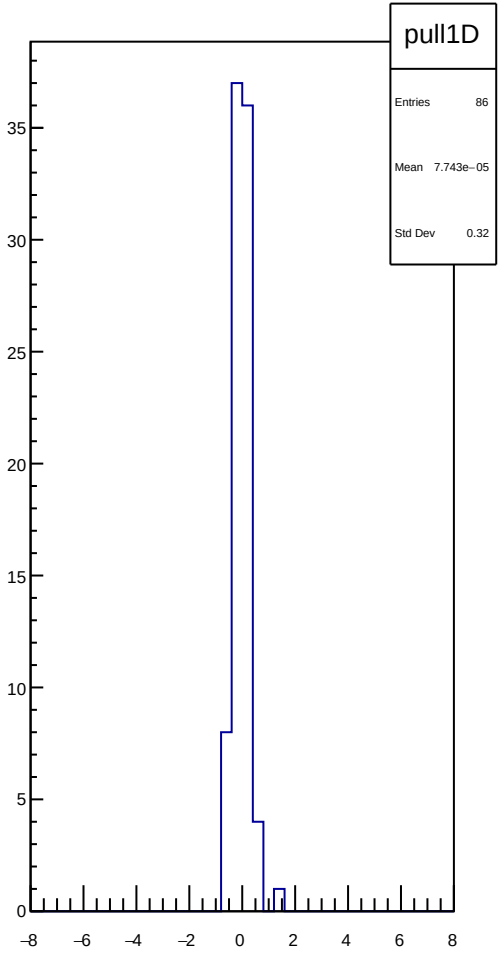

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.891e+04 / 85
p0 51.78 ± 0.04145
140
120
100
80
60
40

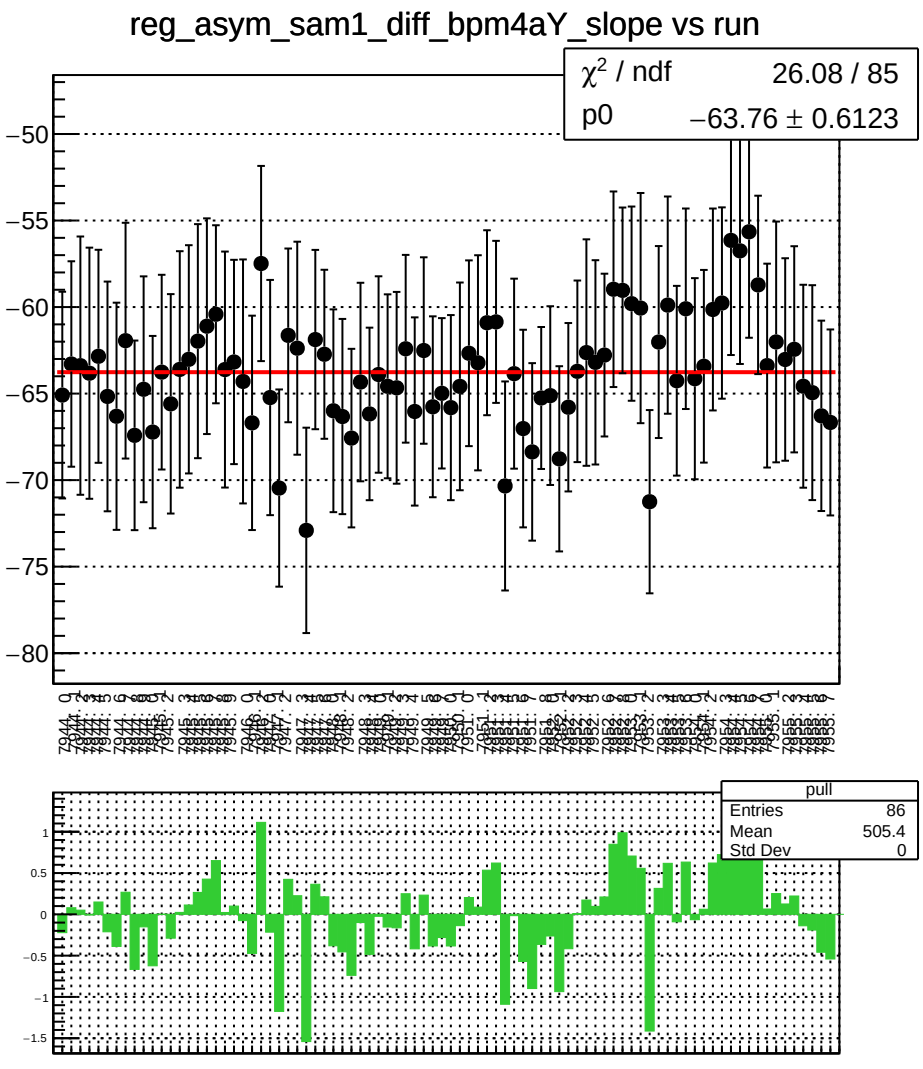

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.73 / 85
p0 1.999e−14 ± 1.608e−13
10
5
0
−5
−10
−15
pull
Entries 86
Mean 35.63
Std Dev 25.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2

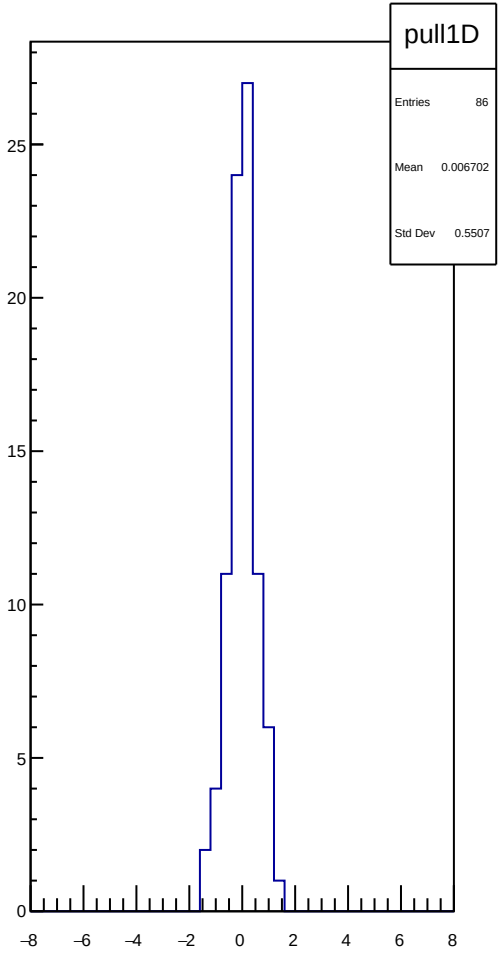

pull1D
Entries 86
Mean −0.1365
Std Dev 0.947
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

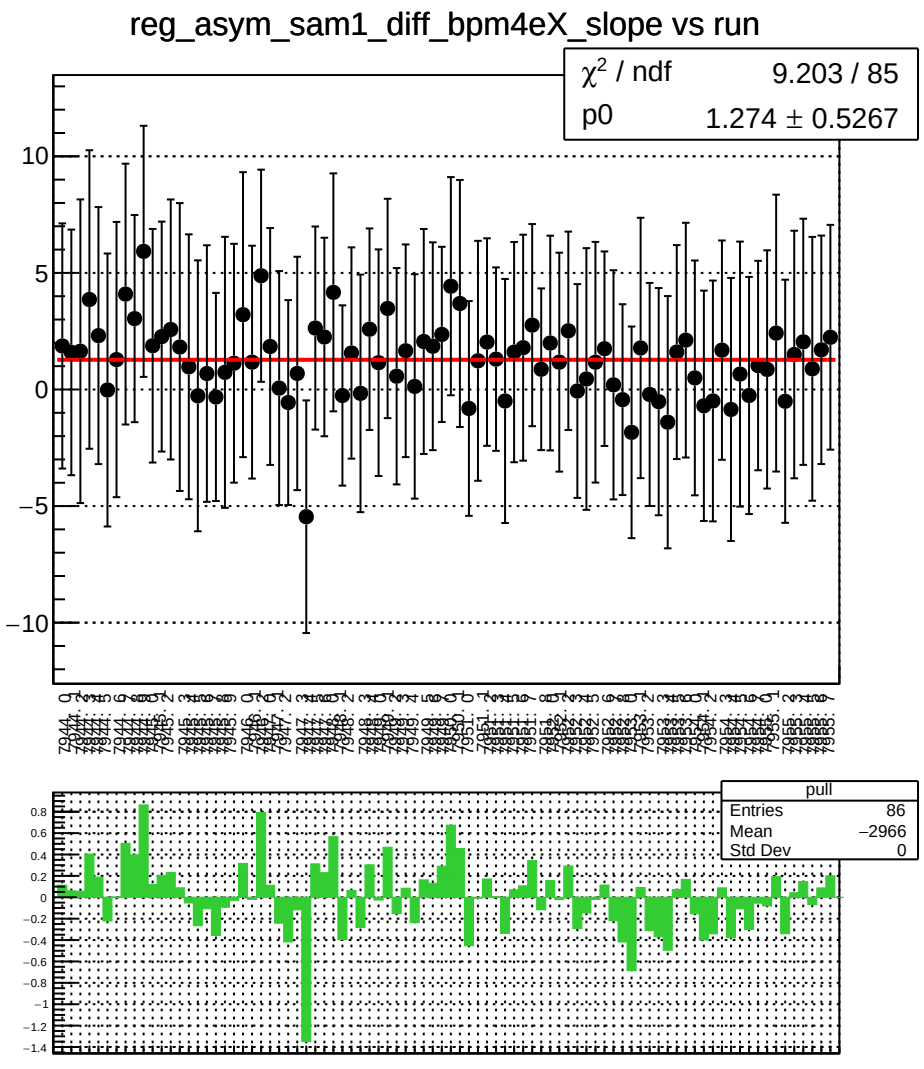

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.969e+05 / 85
p0 1.092e−10 ± 1.137e−13
1
0.8
0.6
0.4
0.2

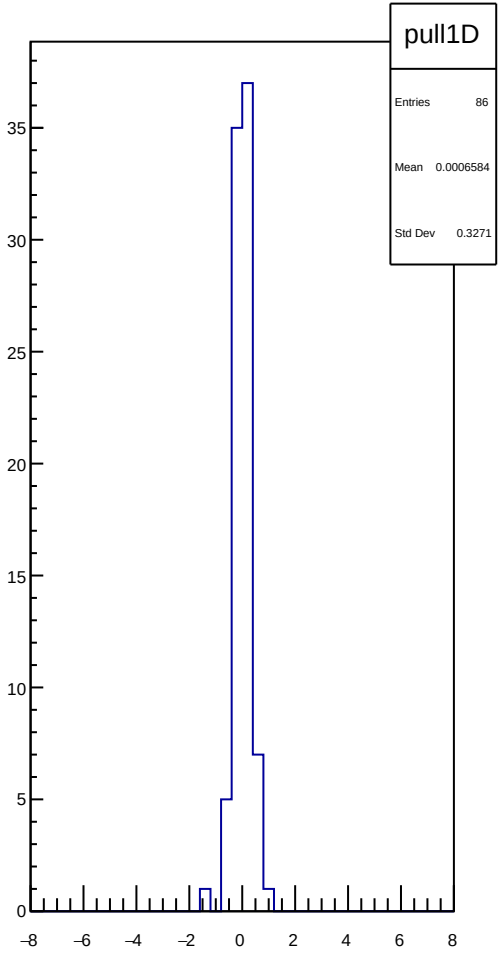

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 8.809 / 85
p0 −12.76 ± 0.5931
pull
Entries 86
Mean 2.604e+04
Std Dev 0

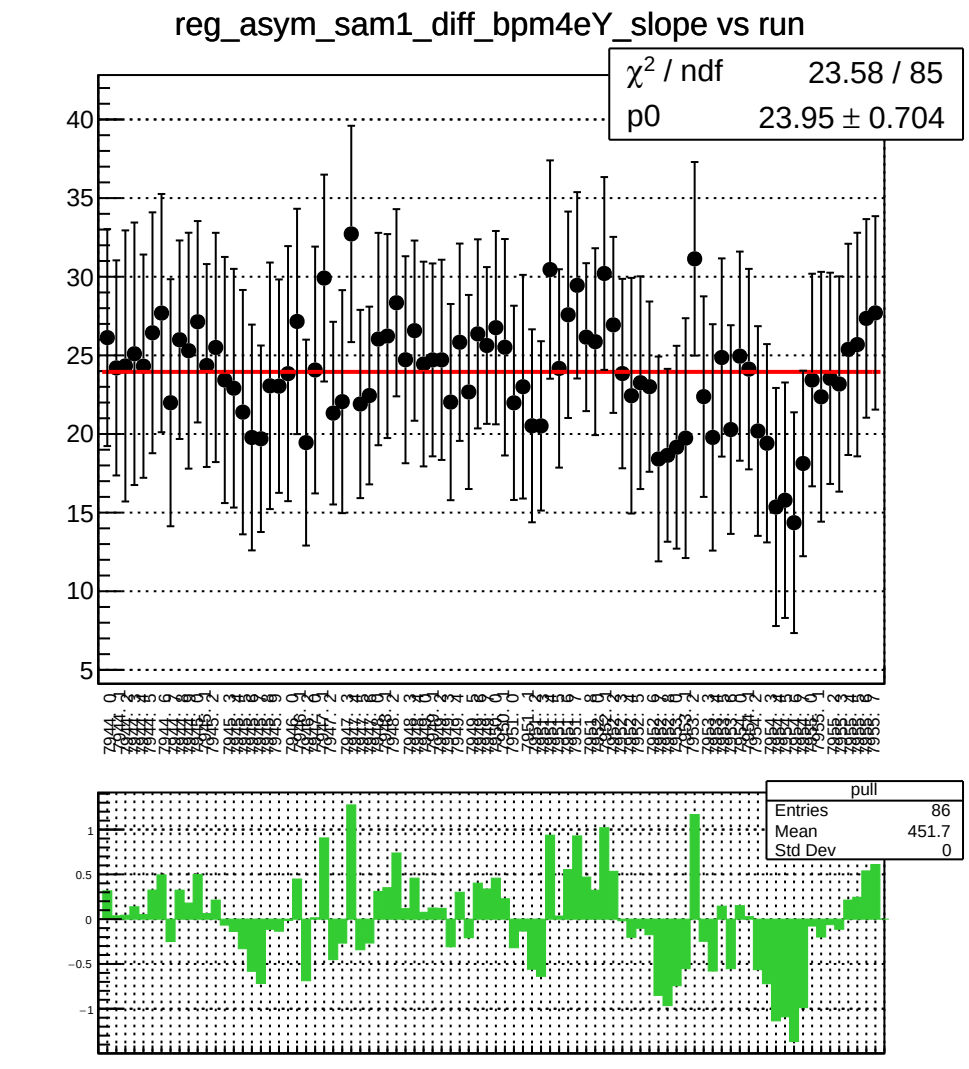

pull1D
Entries 86
Mean 7.743e−05
Std Dev 0.32

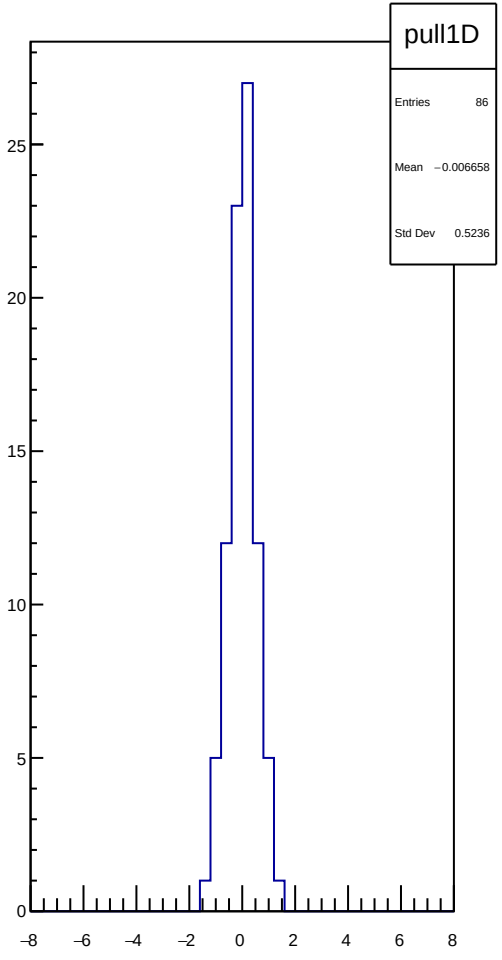

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 26.08 / 85
p0 −63.76 ± 0.6123
pull
Entries 86
Mean 505.4
Std Dev 0

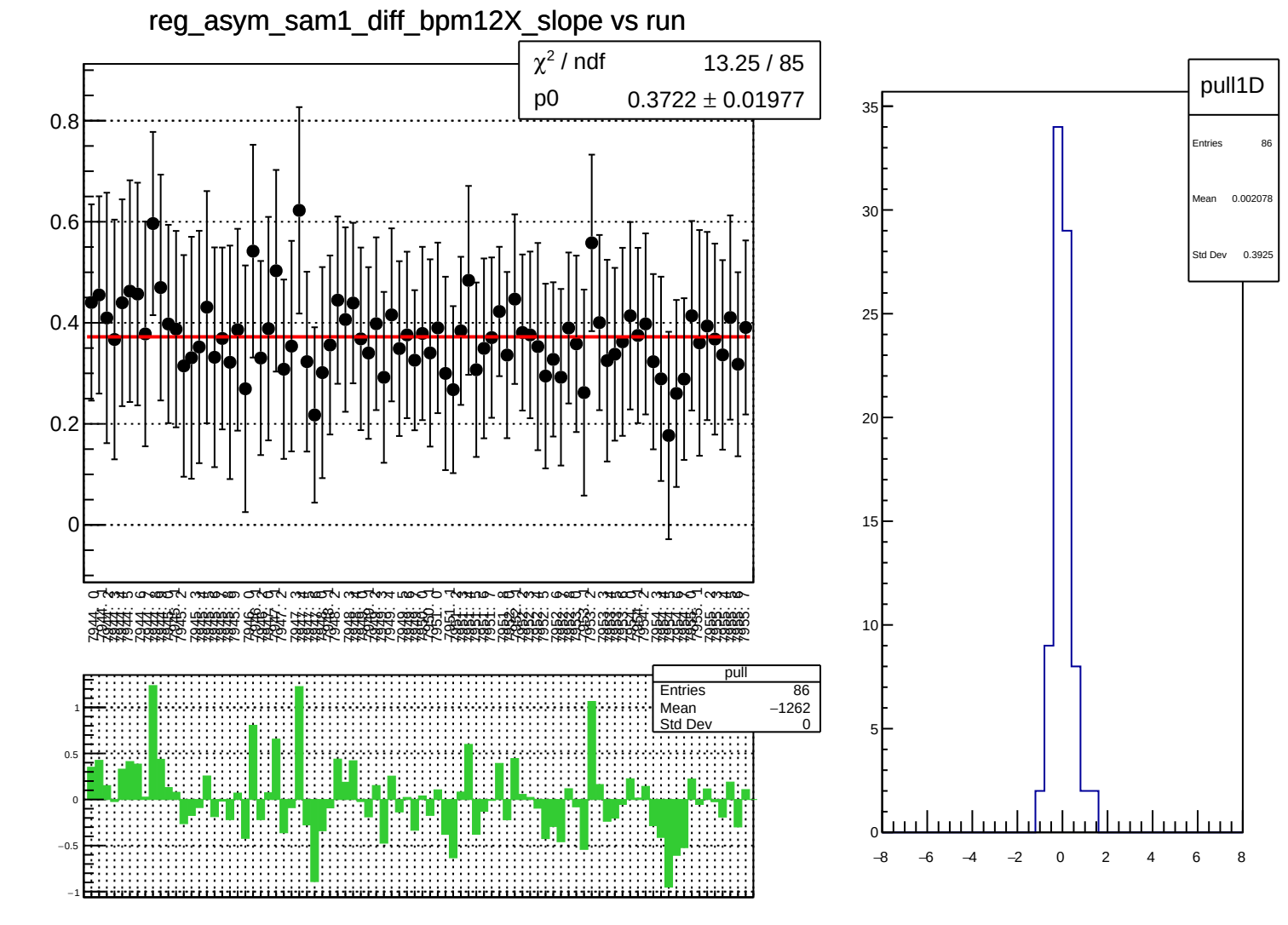

pull1D
Entries 86
Mean 0.006702
Std Dev 0.5507

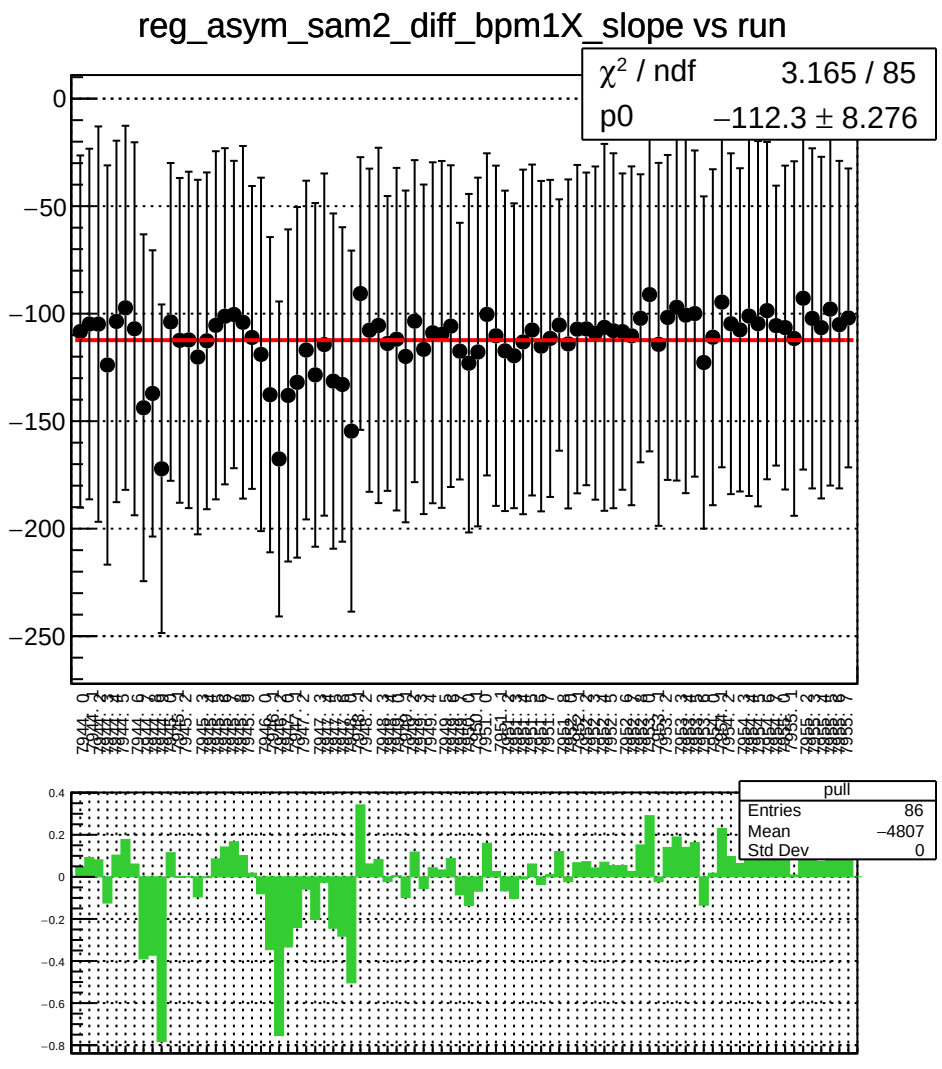

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 9.203 / 85
p0 1.274 ± 0.5267
pull
Entries 86
Mean −2966
Std Dev 0

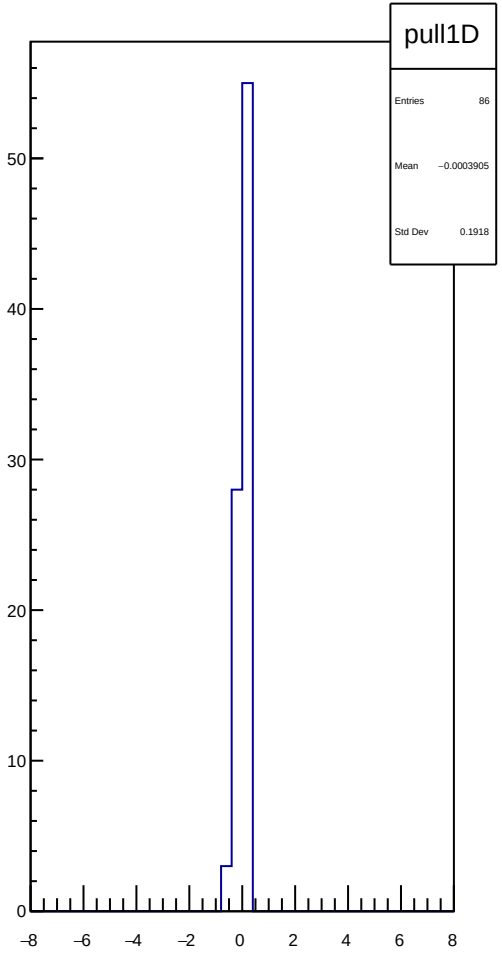

pull1D
Entries 86
Mean 0.0006584
Std Dev 0.3271

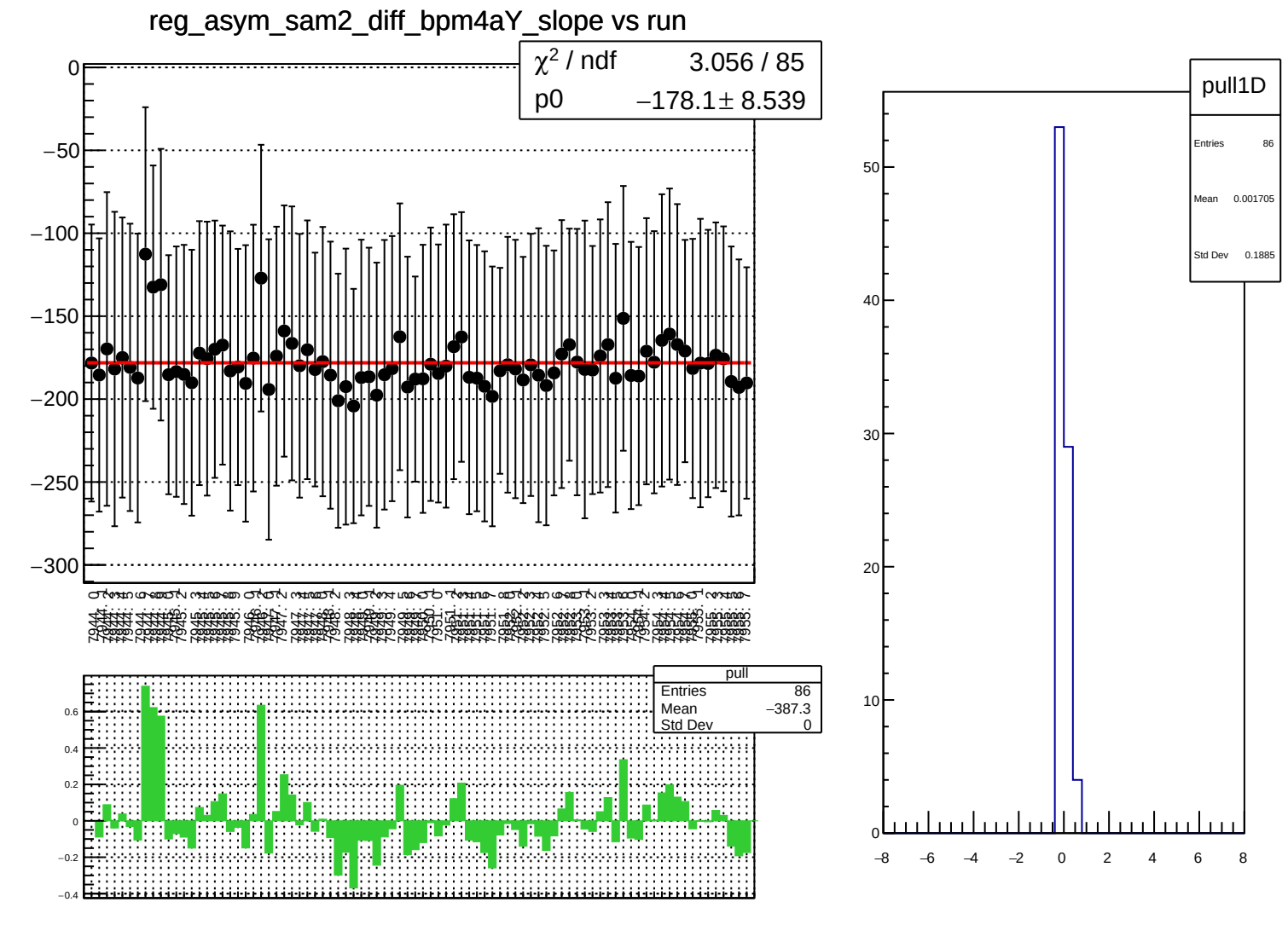

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 23.58 / 85
p0 23.95 ± 0.704
pull
Entries 86
Mean 451.7
Std Dev 0

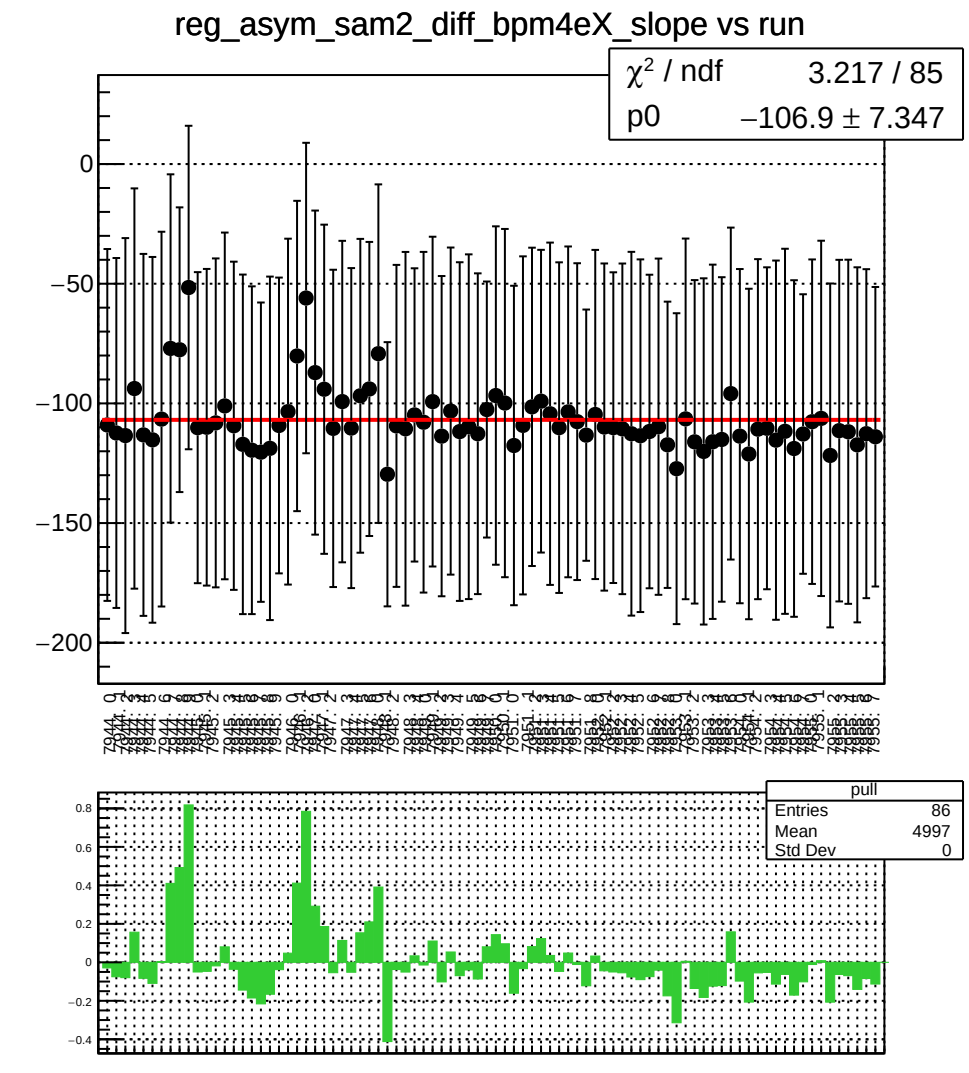

pull1D
Entries 86
Mean −0.006658
Std Dev 0.5236

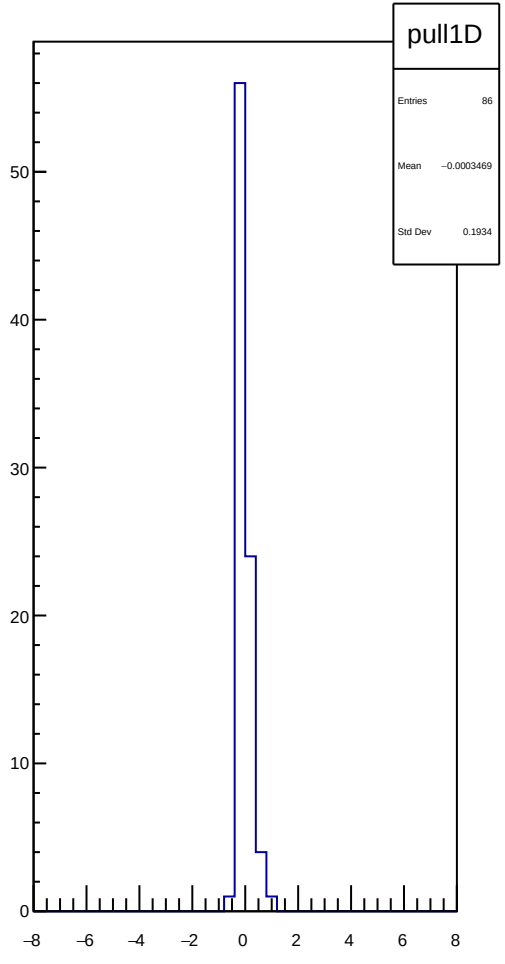

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 13.25 / 85
p0 0.3722 ± 0.01977
pull
Entries 86
Mean −1262
Std Dev 0
pull1D
Entries 86
Mean 0.002078
Std Dev 0.3925

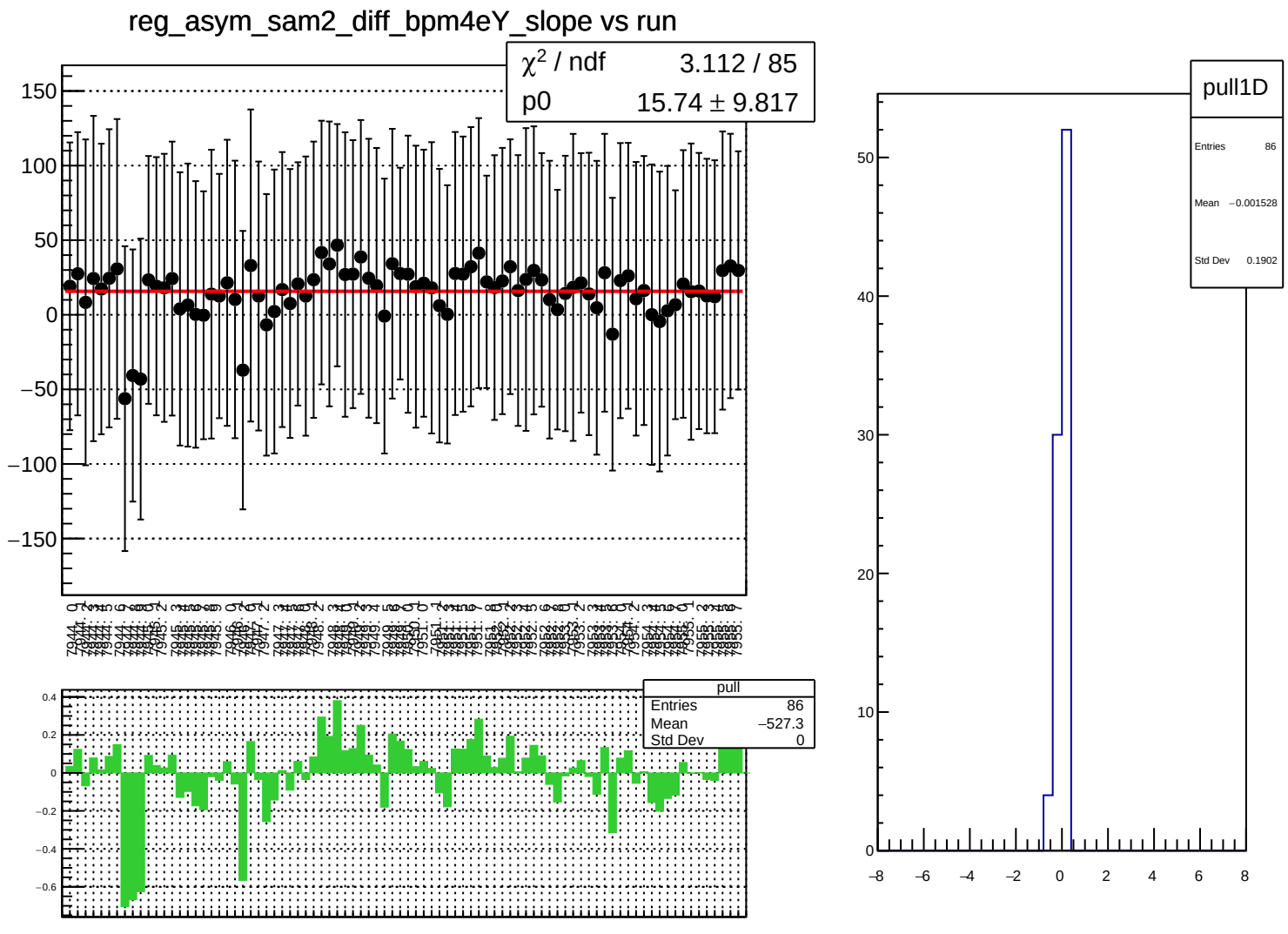

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 3.165 / 85
p0 −112.3 ± 8.276
pull
Entries 86
Mean −4807
Std Dev 0

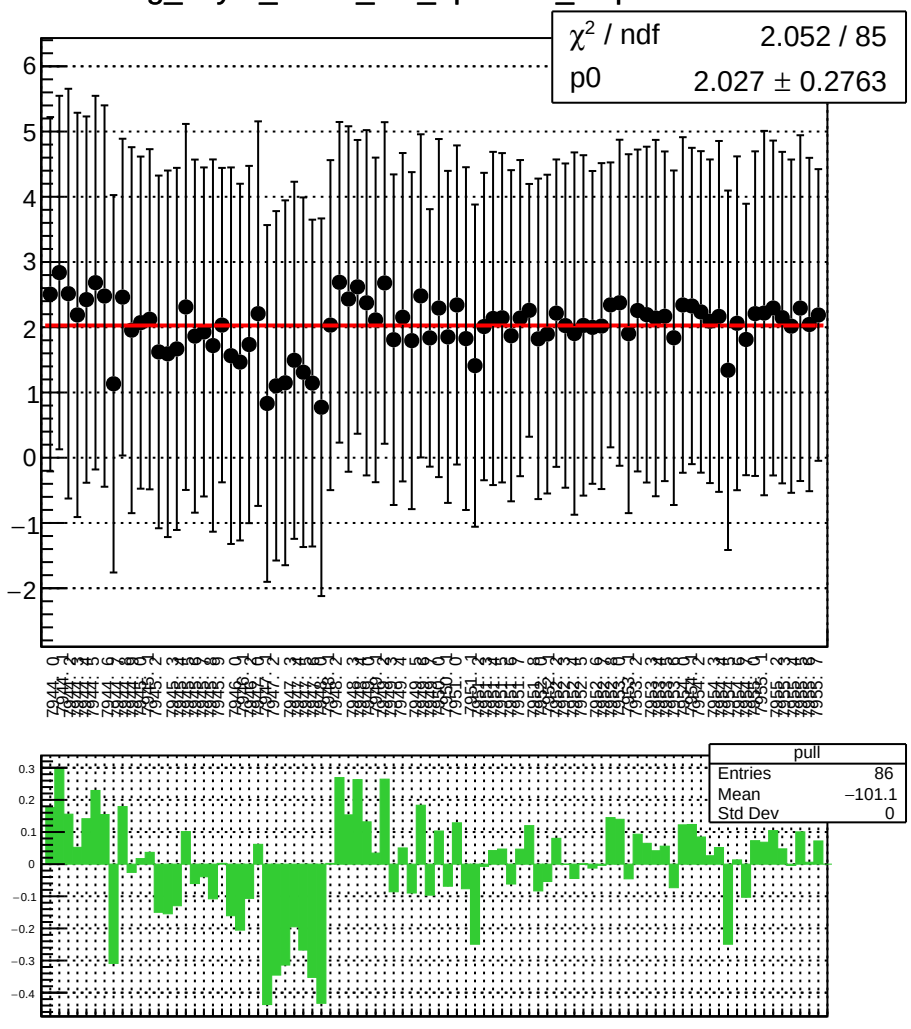

pull1D
Entries 86
Mean −0.0003905
Std Dev 0.1918

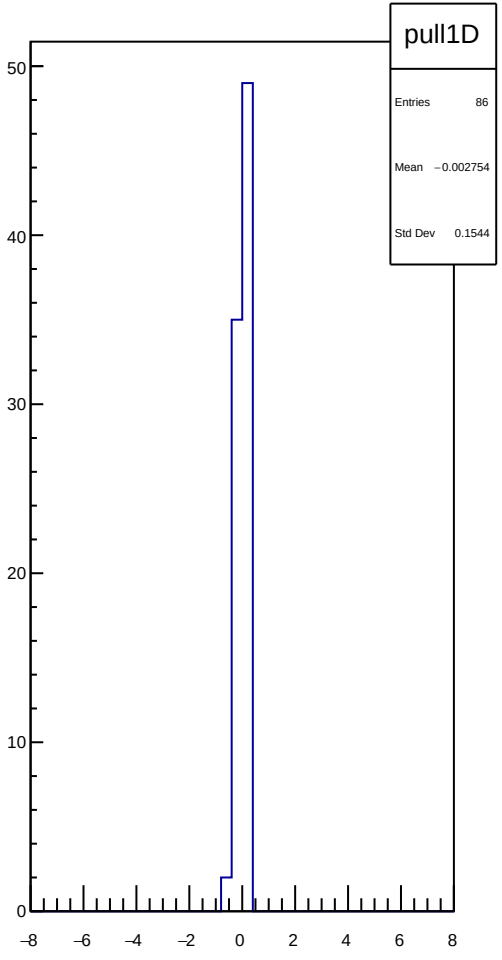

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 3.056 / 85
p0 −178.1± 8.539
pull
Entries 86
Mean −387.3
Std Dev 0
pull1D
Entries 86
Mean 0.001705
Std Dev 0.1885

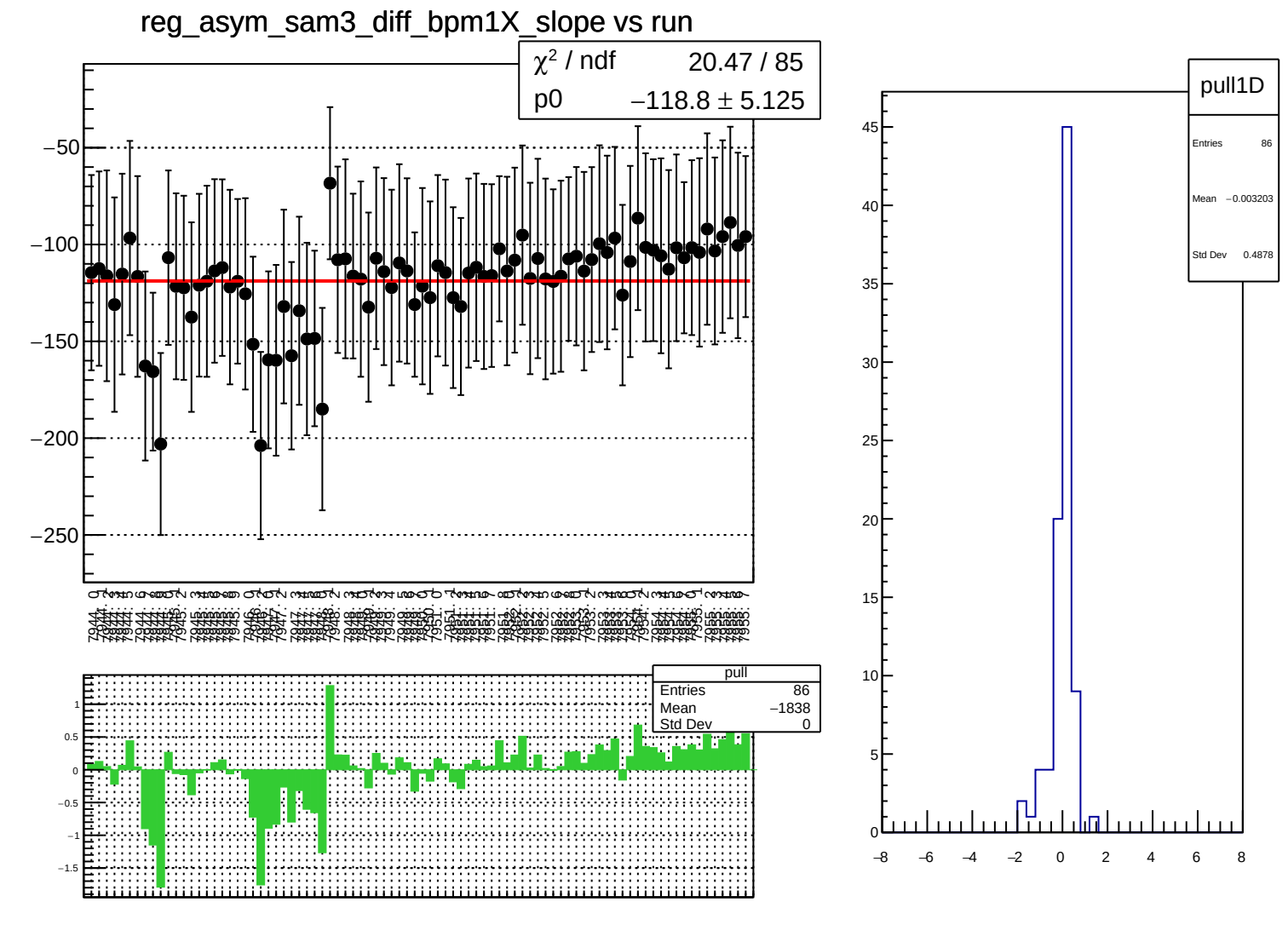

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 3.217 / 85
p0 −106.9 ± 7.347
0
−50
−100
−150
−200
pull
Entries 86
Mean 4997
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

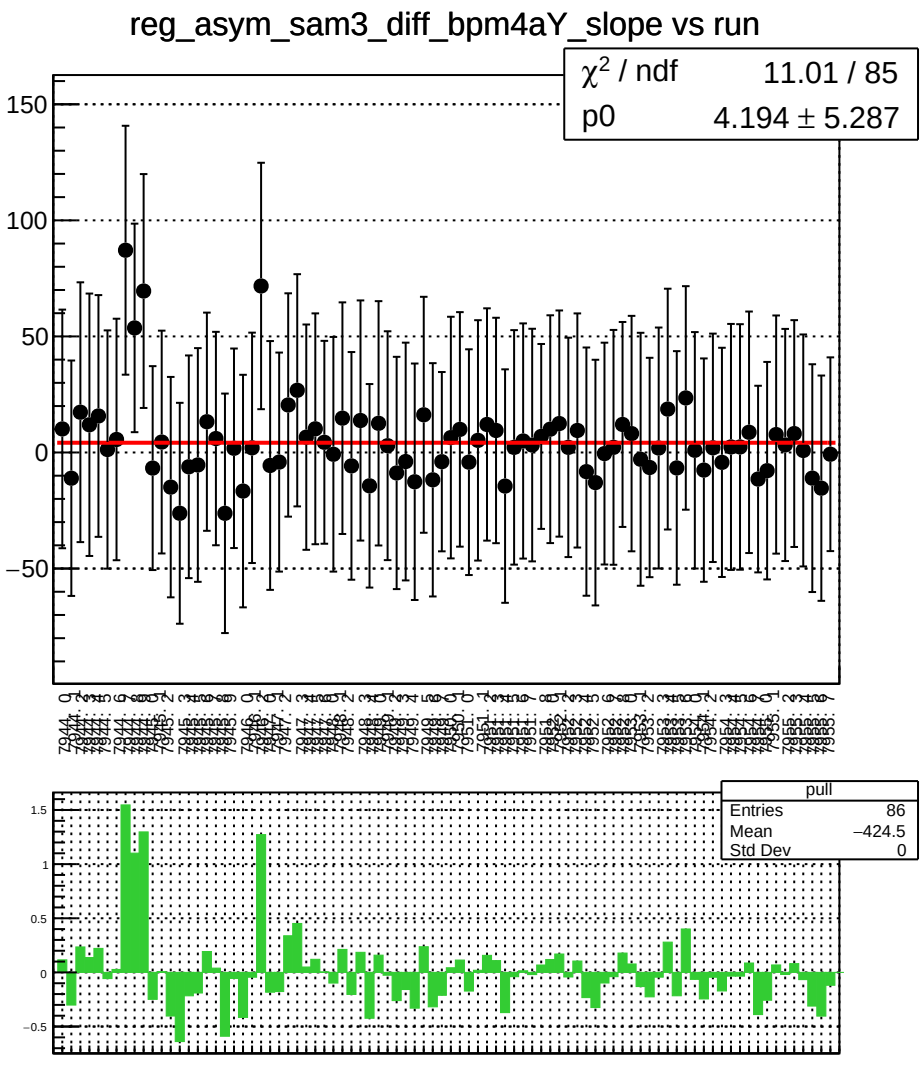

pull1D
Entries 86
Mean −0.0003469
Std Dev 0.1934
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

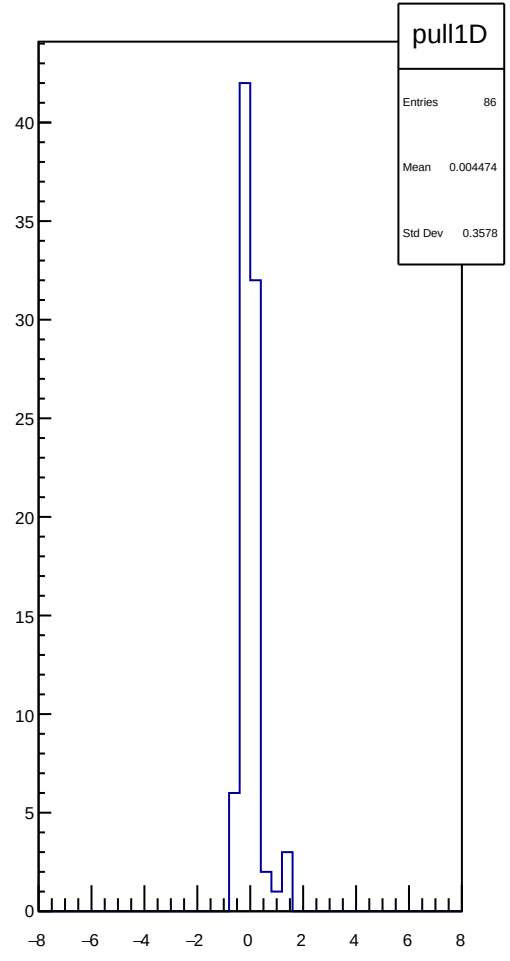

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 3.112 / 85
p0 15.74 ± 9.817
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −527.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 86
Mean −0.001528
Std Dev 0.1902
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

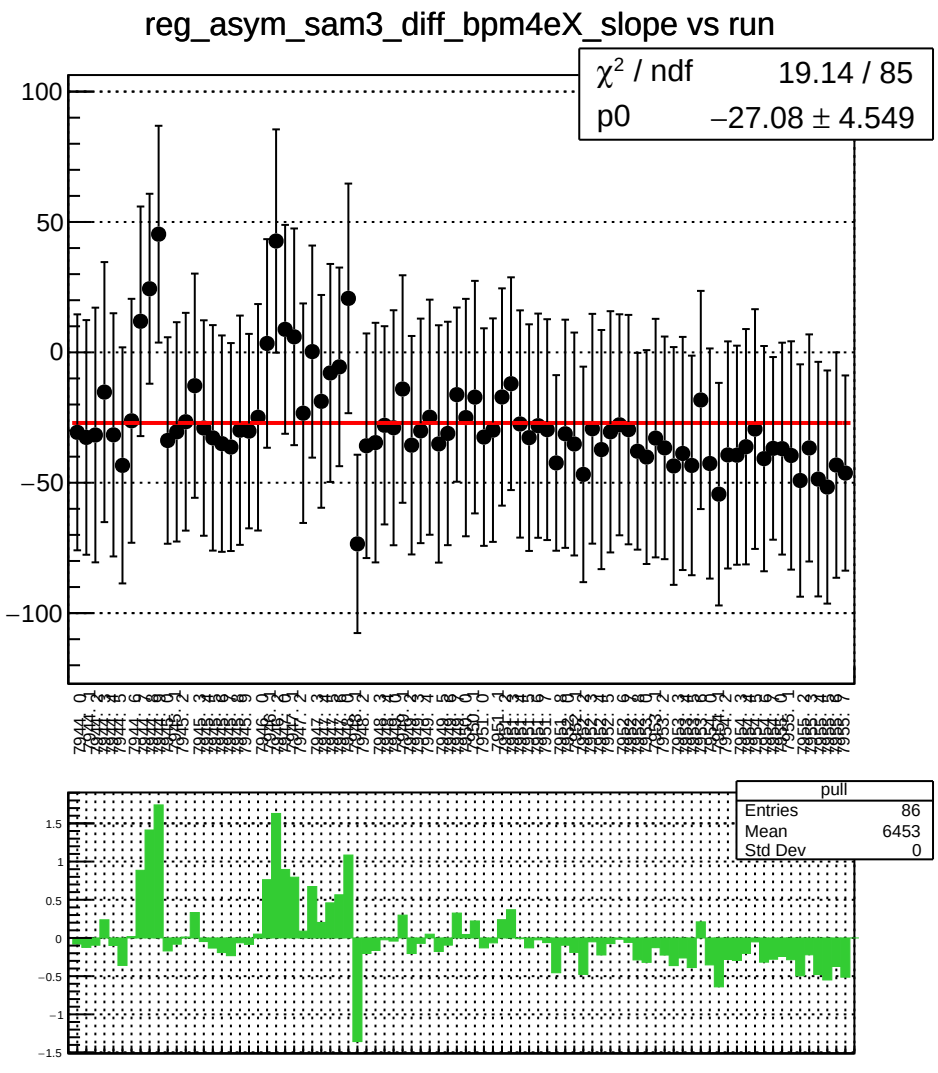

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 2.052 / 85
p0 2.027 ± 0.2763
pull
Entries 86
Mean −101.1
Std Dev 0

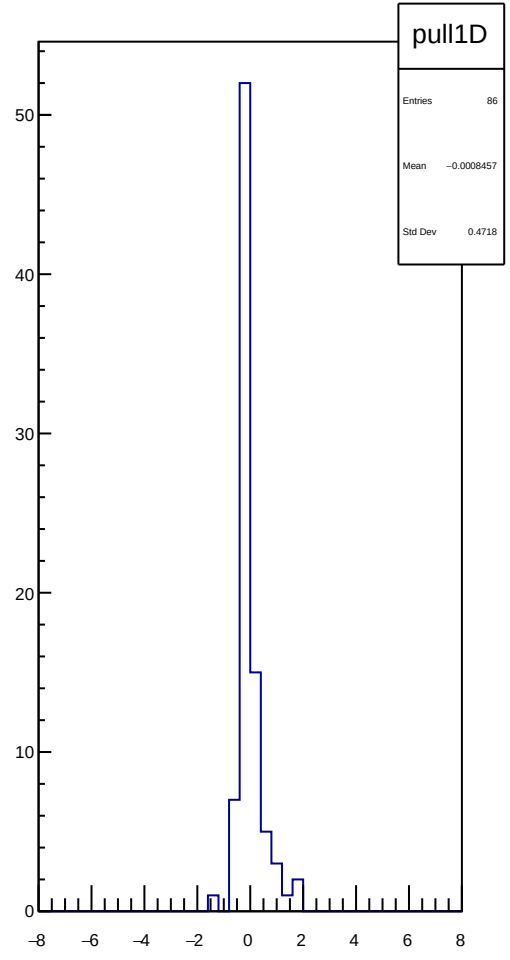

pull1D
Entries 86
Mean −0.002754
Std Dev 0.1544

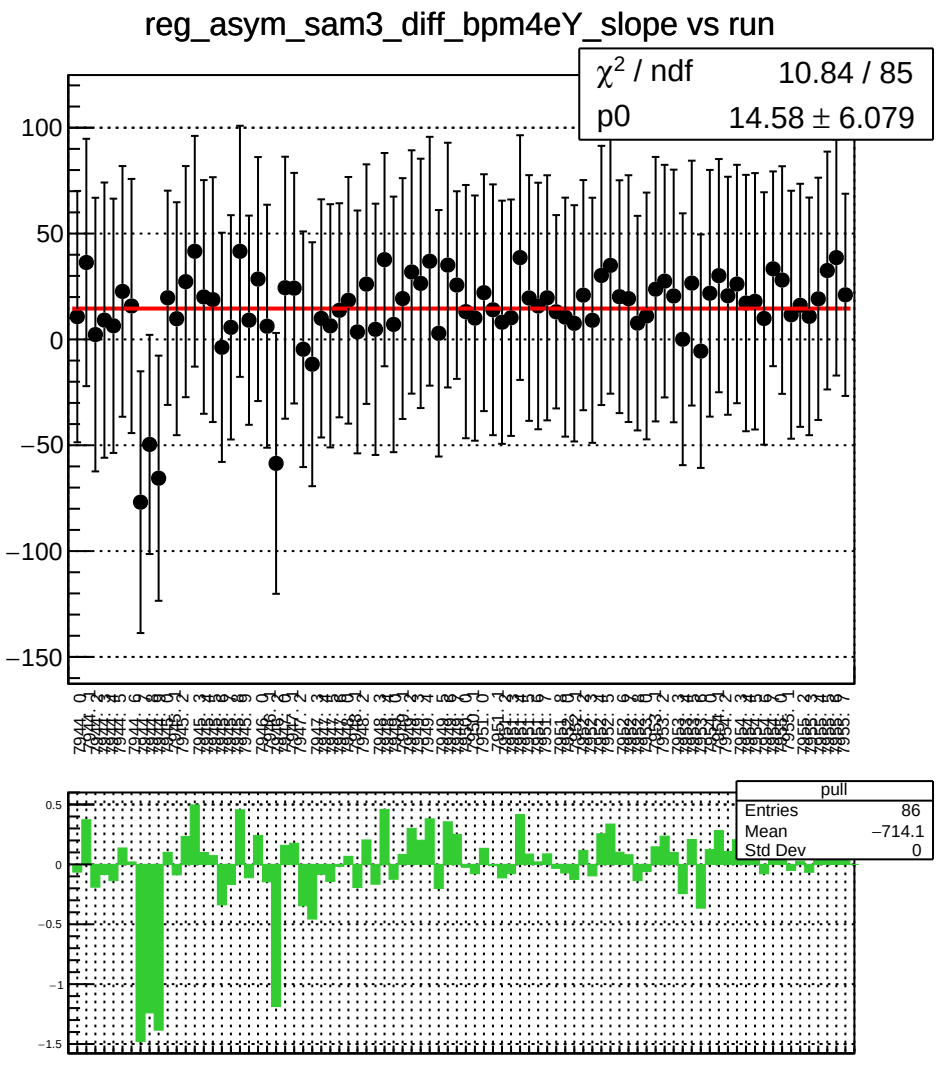

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 20.47 / 85
p0 −118.8 ± 5.125
pull
Entries 86
Mean −1838
Std Dev 0
pull1D
Entries 86
Mean −0.003203
Std Dev 0.4878

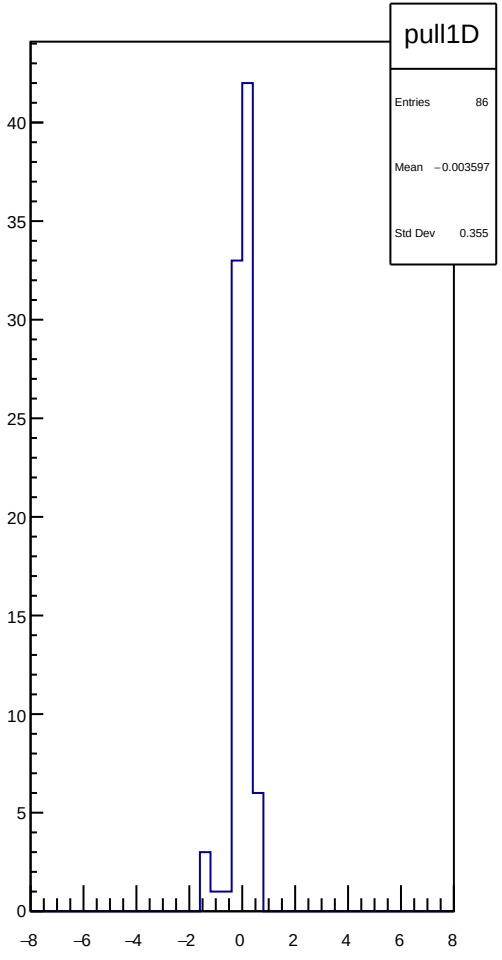

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 11.01 / 85
p0 4.194 ± 5.287
150
100
50
0
−50
pull
Entries 86
Mean −424.5
Std Dev 0
1.5
1
0.5
0
−0.5

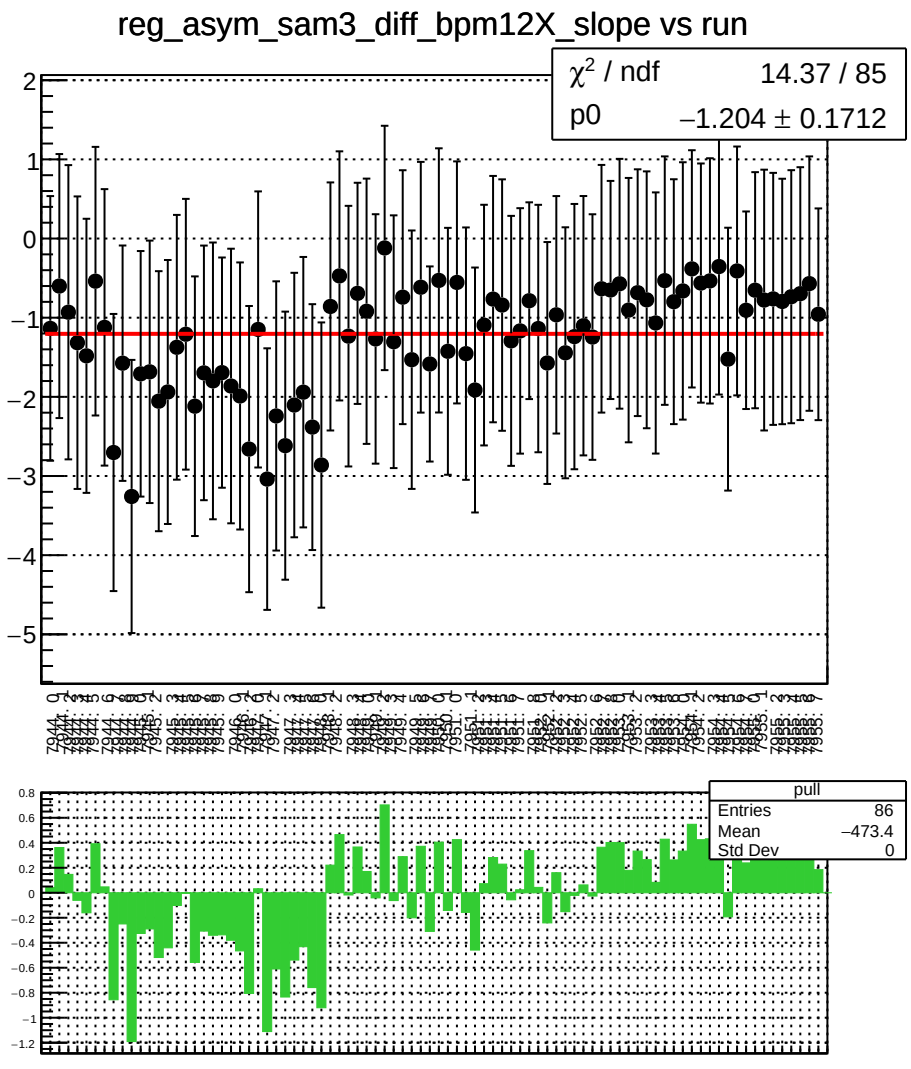

pull1D
Entries 86
Mean 0.004474
Std Dev 0.3578
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

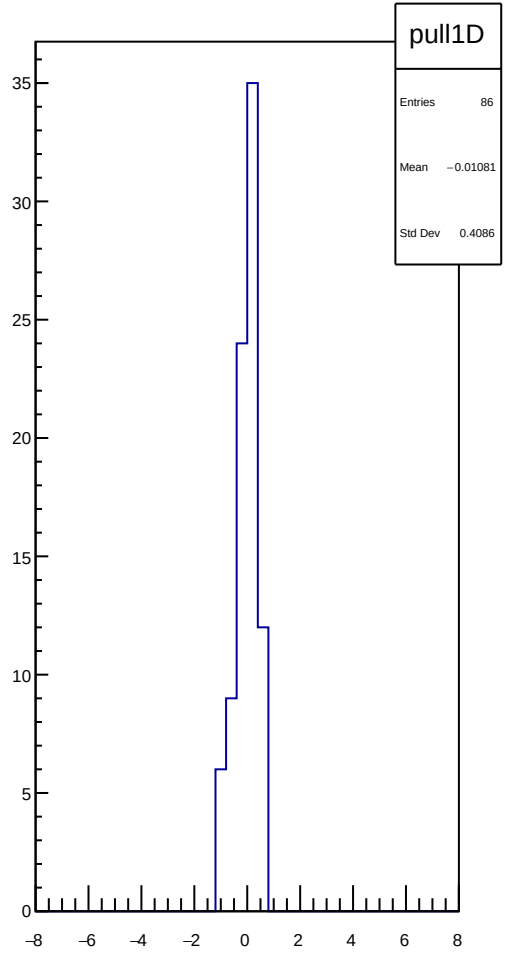

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 19.14 / 85
p0 −27.08 ± 4.549
pull
Entries 86
Mean 6453
Std Dev 0

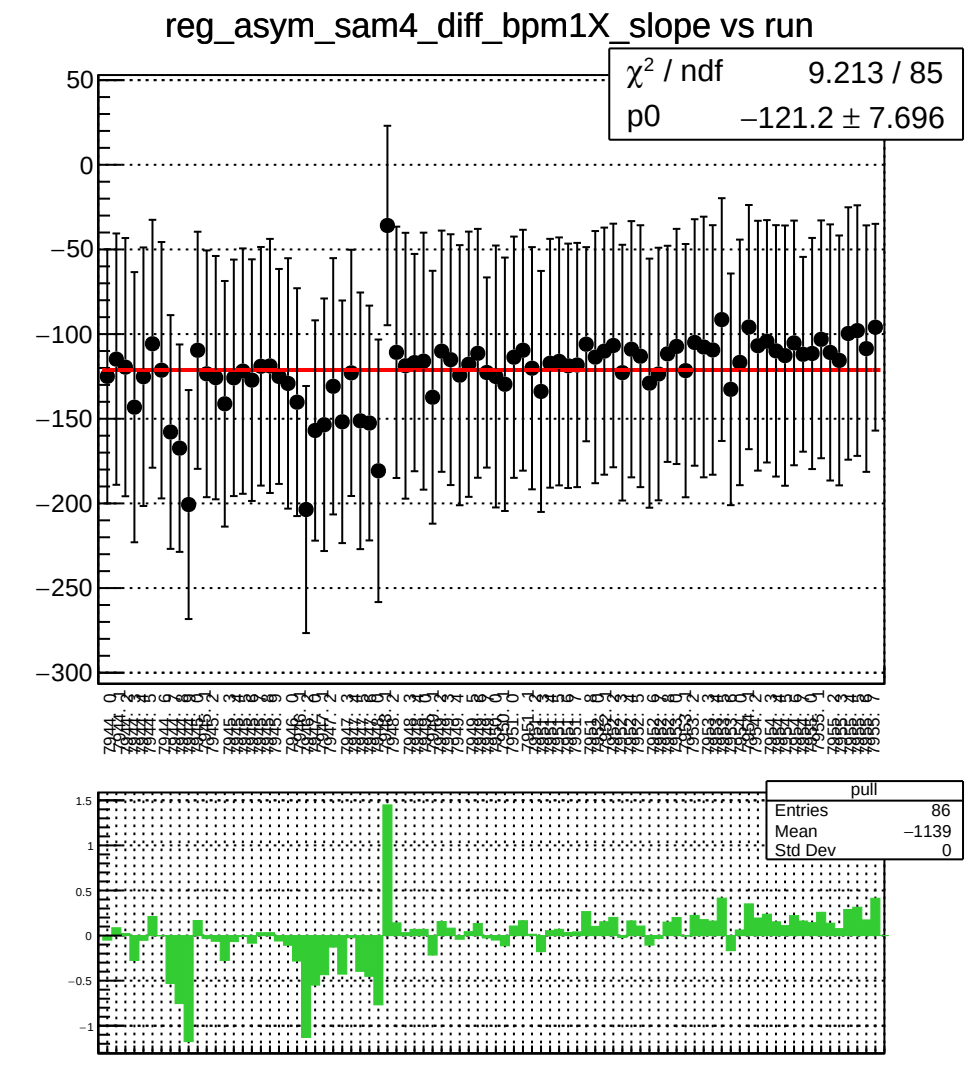

pull1D
Entries 86
Mean −0.0008457
Std Dev 0.4718

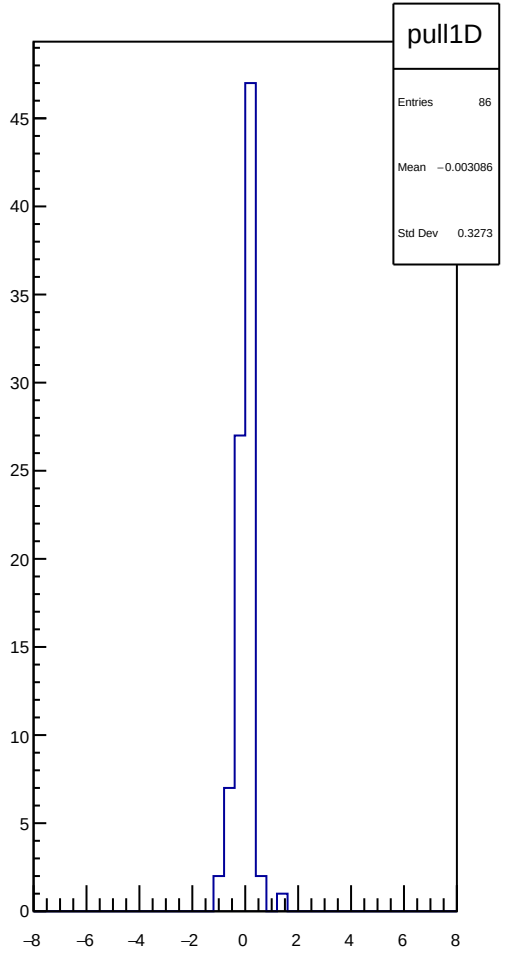

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 10.84 / 85
p0 14.58 ± 6.079
pull
Entries 86
Mean −714.1
Std Dev 0

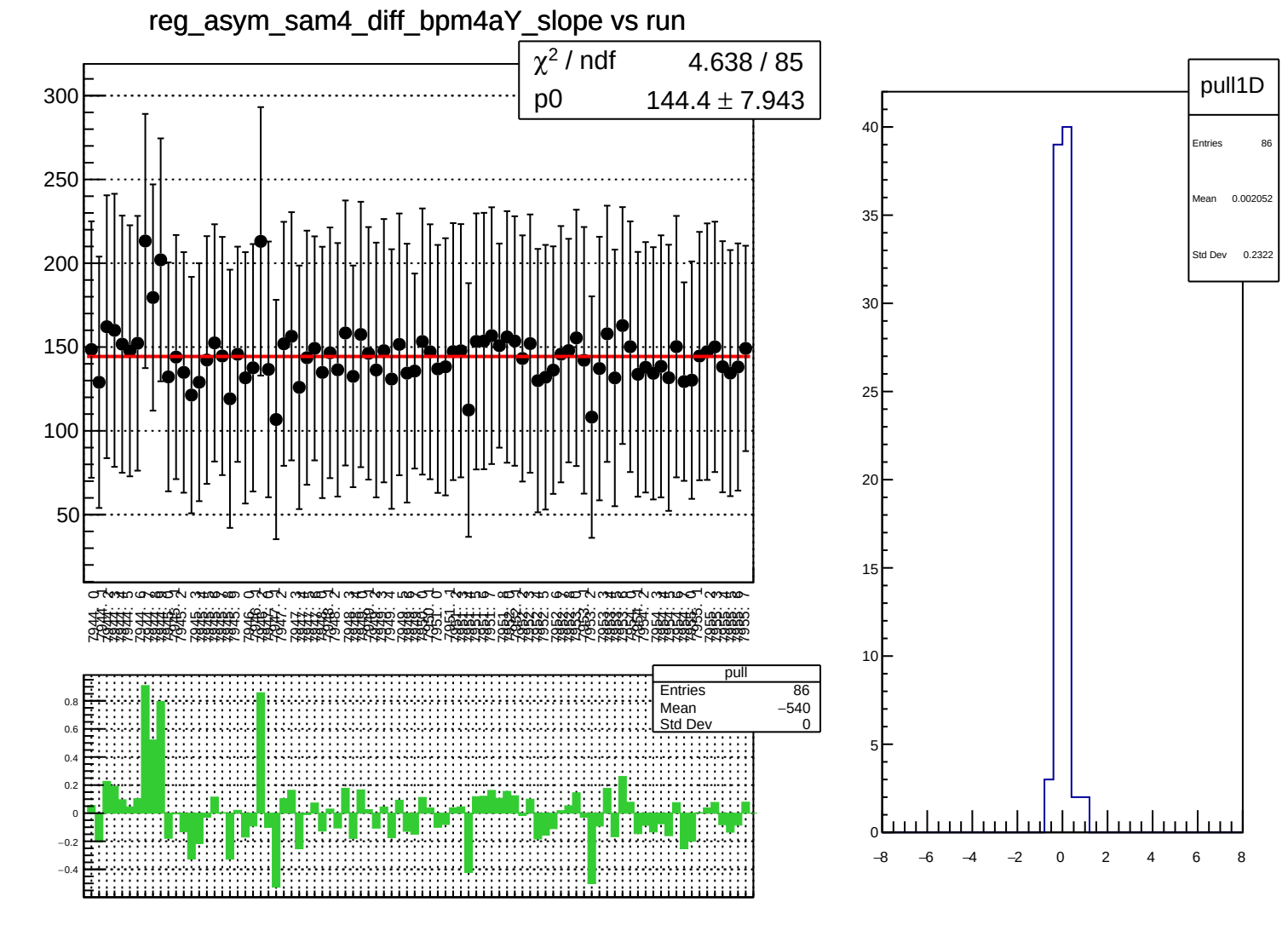

pull1D
Entries 86
Mean −0.003597
Std Dev 0.355

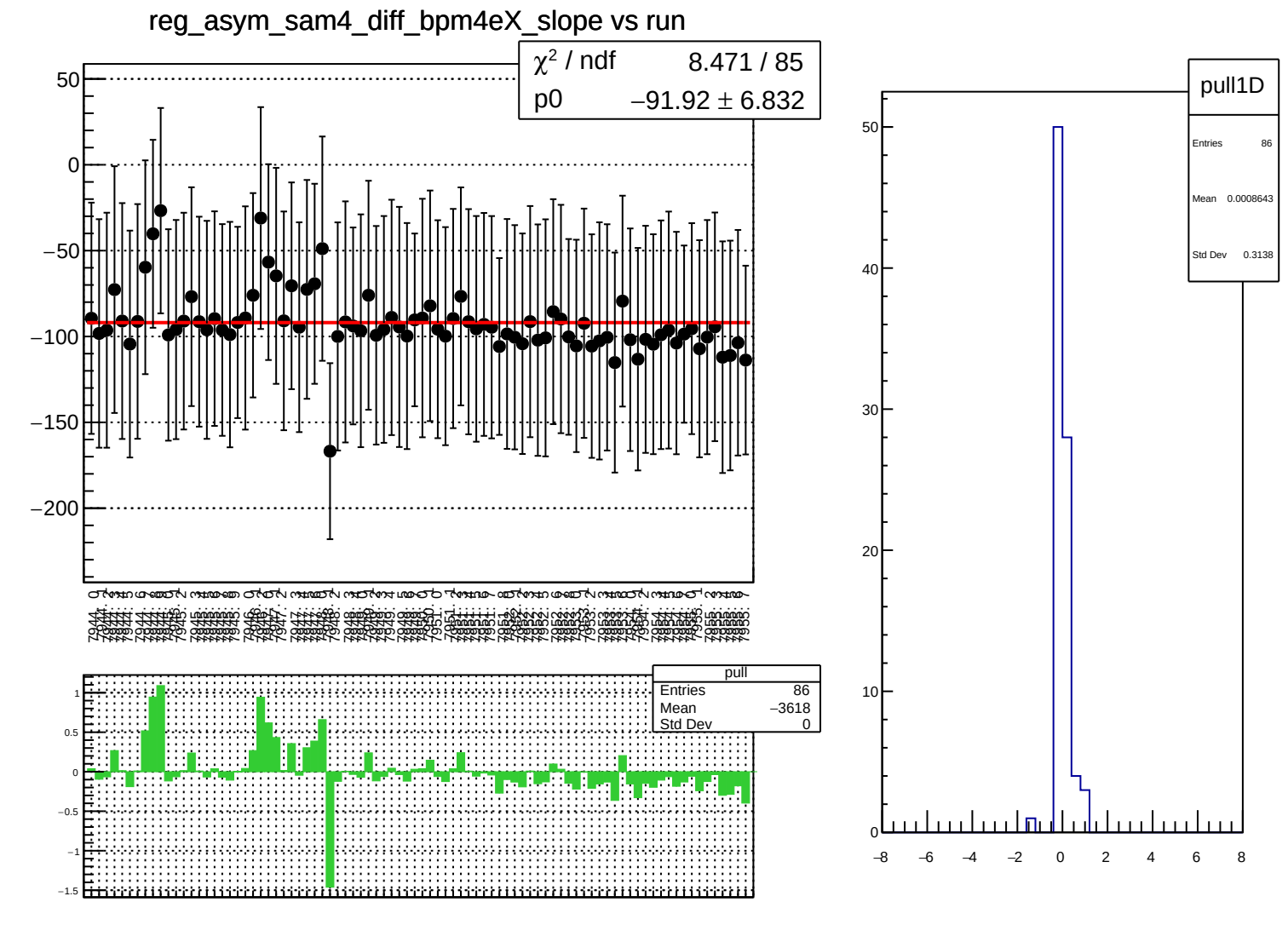

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 14.37 / 85
p0 −1.204 ± 0.1712
pull
Entries 86
Mean −473.4
Std Dev 0

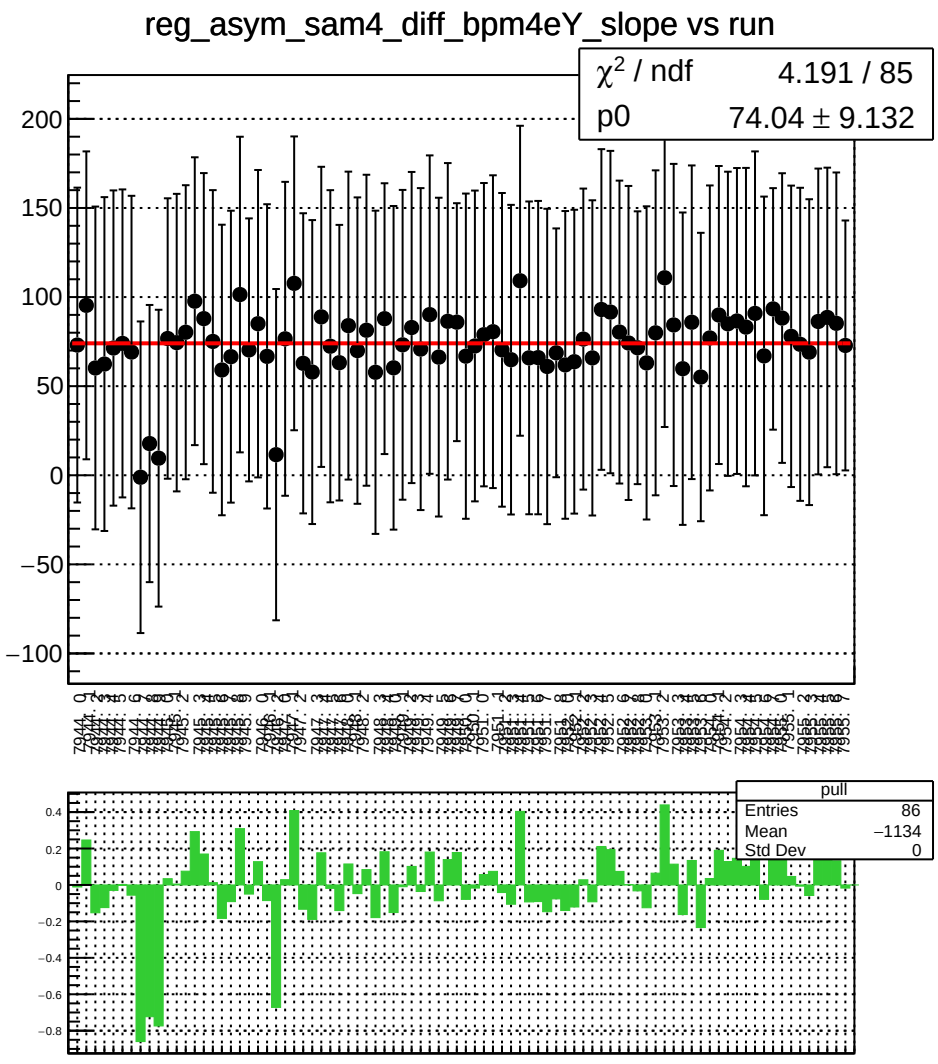

pull1D
Entries 86
Mean −0.01081
Std Dev 0.4086

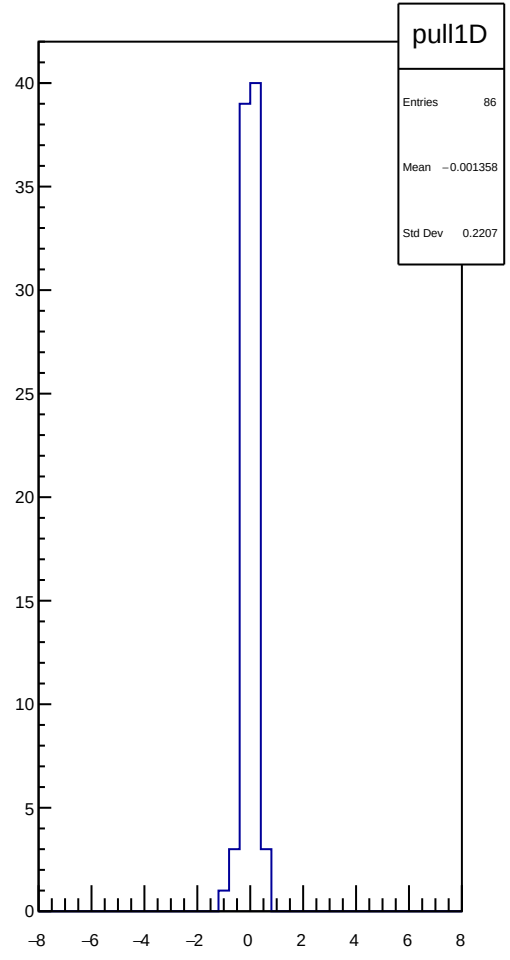

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 9.213 / 85
p0 −121.2 ± 7.696
pull
Entries 86
Mean −1139
Std Dev 0

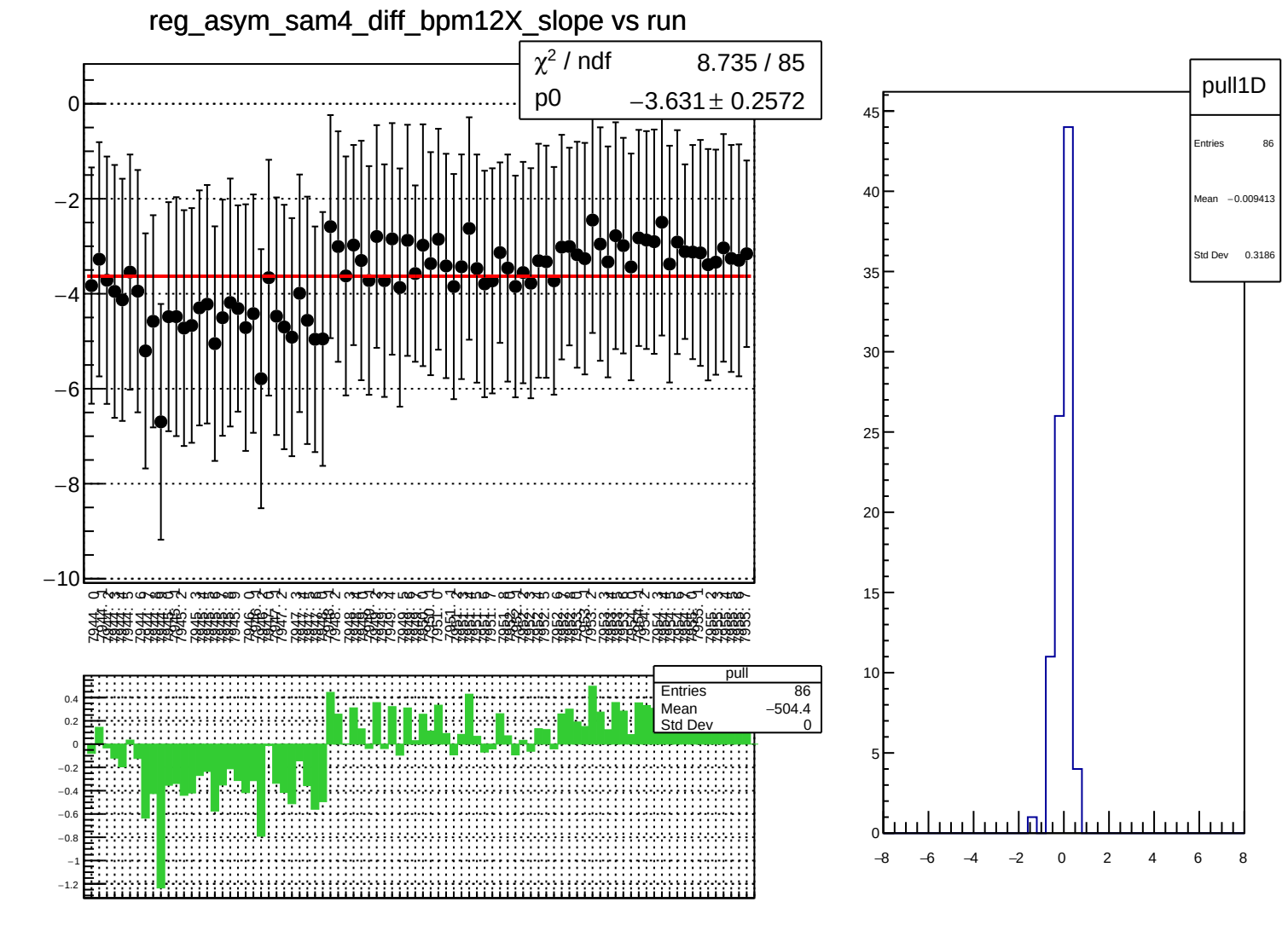

pull1D
Entries 86
Mean −0.003086
Std Dev 0.3273

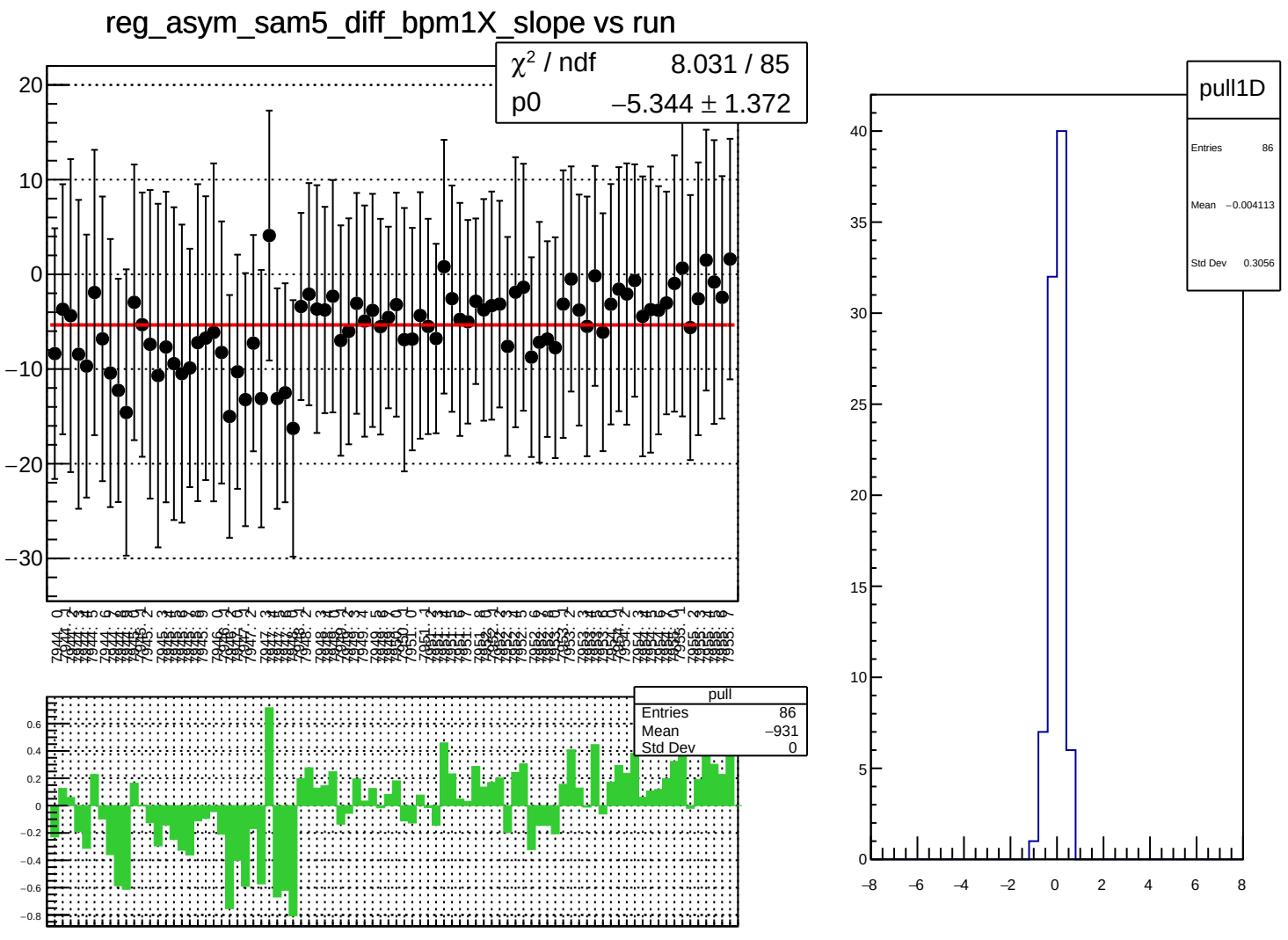

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 4.638 / 85
p0 144.4 ± 7.943
pull
Entries 86
Mean −540
Std Dev 0
pull1D
Entries 86
Mean 0.002052
Std Dev 0.2322

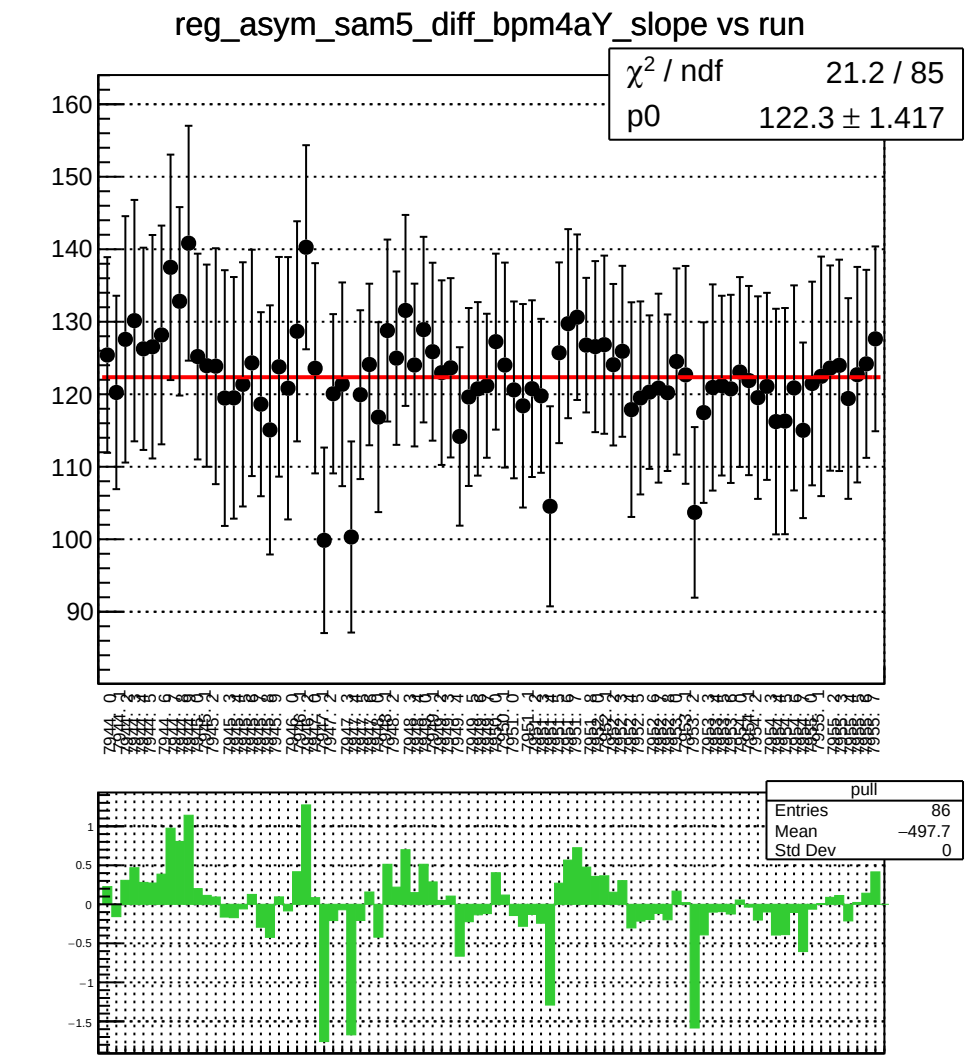

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 8.471 / 85
p0 −91.92 ± 6.832
pull
Entries 86
Mean −3618
Std Dev 0
pull1D
Entries 86
Mean 0.0008643
Std Dev 0.3138

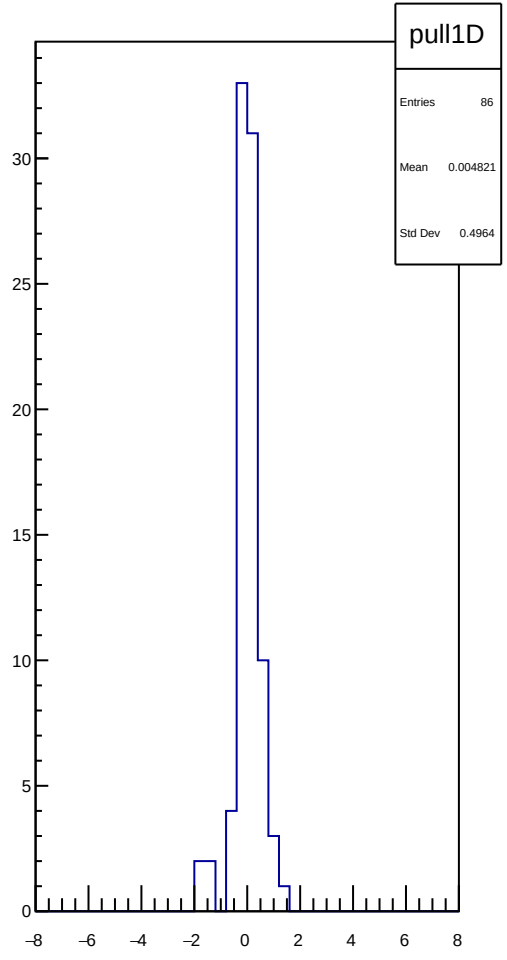

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 4.191 / 85
p0 74.04 ± 9.132
pull
Entries 86
Mean −1134
Std Dev 0

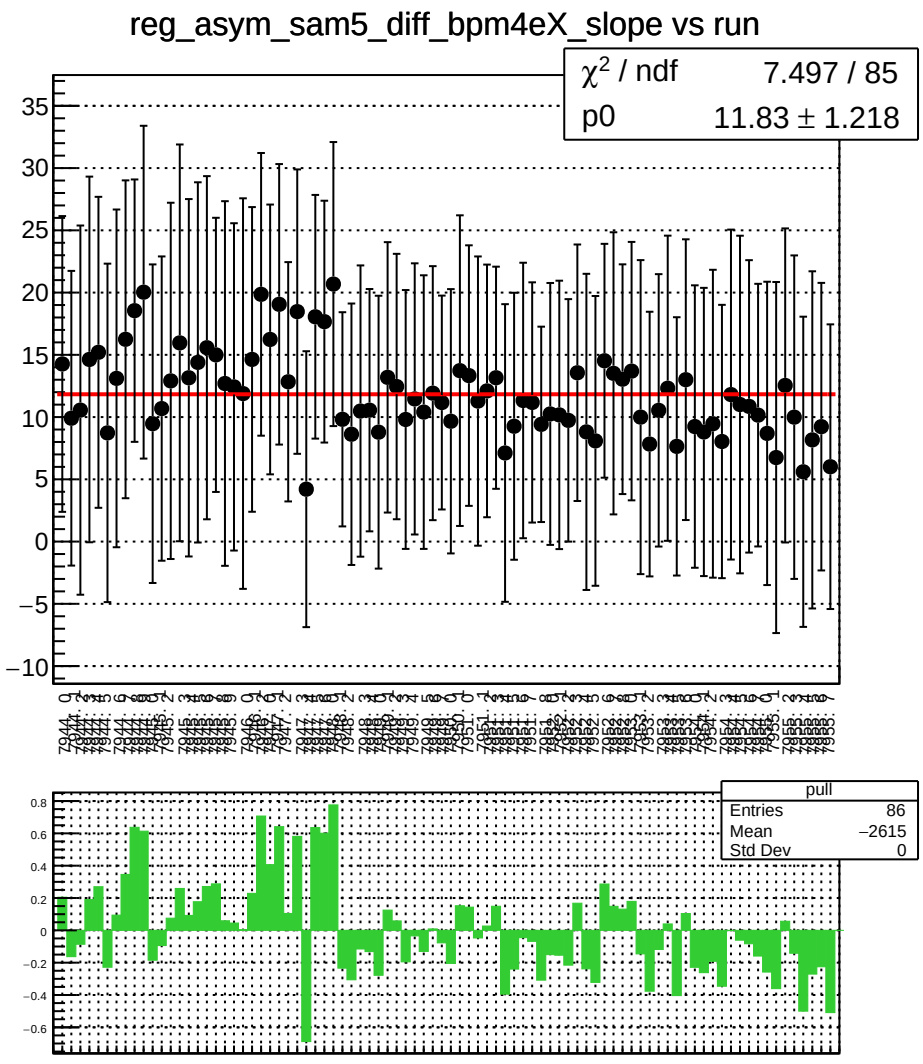

pull1D
Entries 86
Mean −0.001358
Std Dev 0.2207

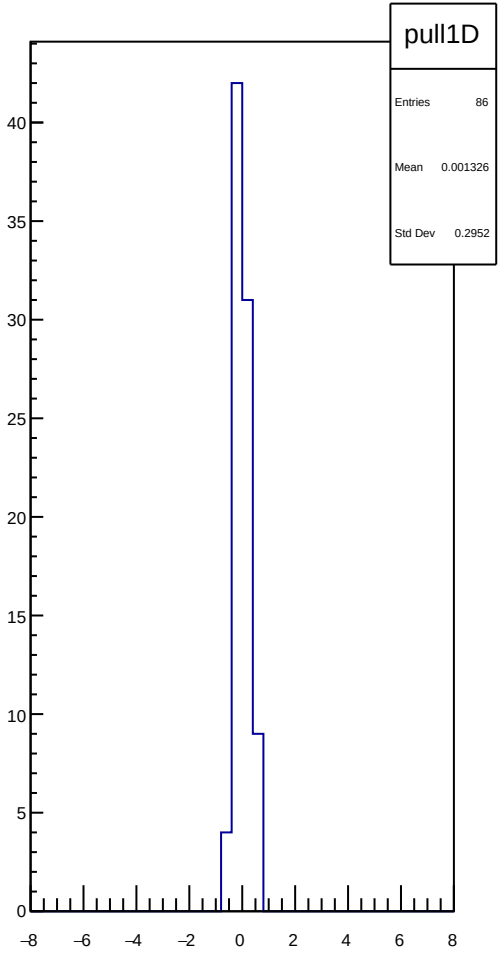

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 8.735 / 85
p0 −3.631 ± 0.2572
pull
Entries 86
Mean −504.4
Std Dev 0
pull1D
Entries 86
Mean −0.009413
Std Dev 0.3186

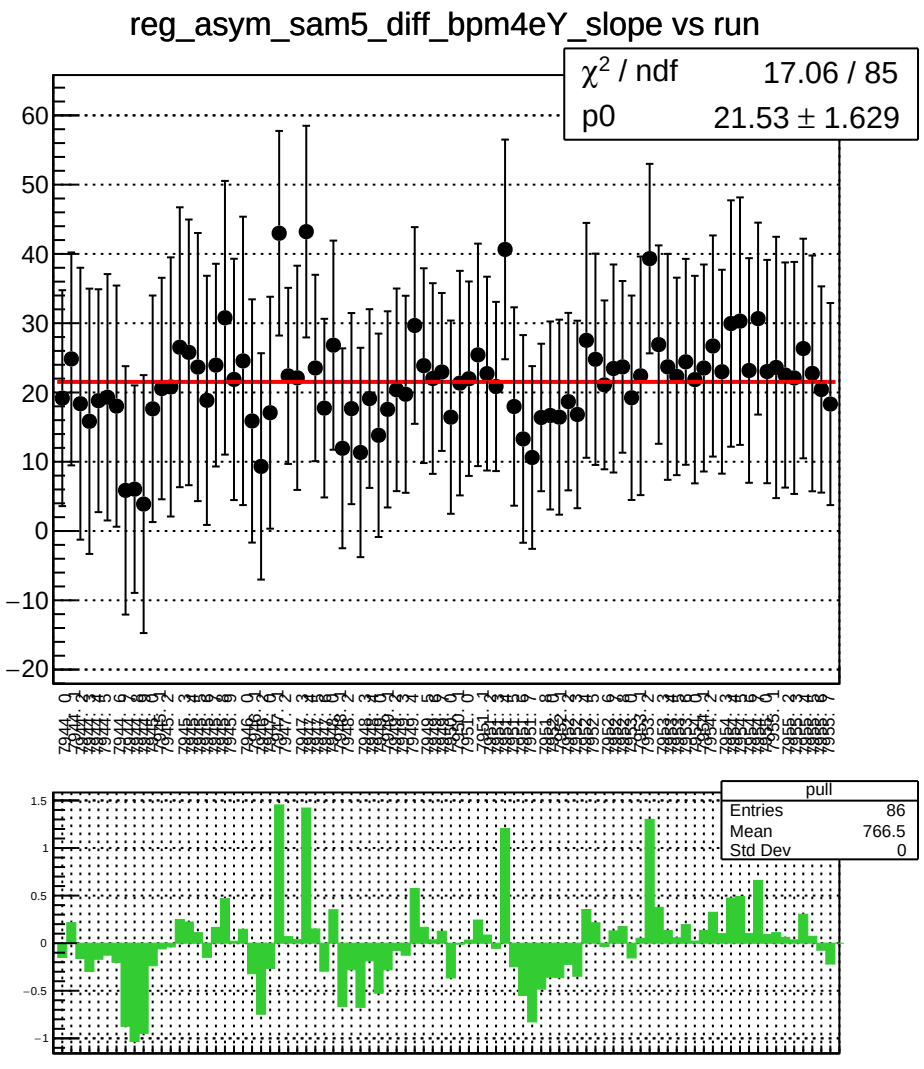

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 8.031 / 85
p0 −5.344 ± 1.372
pull
Entries 86
Mean −931
Std Dev 0
pull1D
Entries 86
Mean −0.004113
Std Dev 0.3056

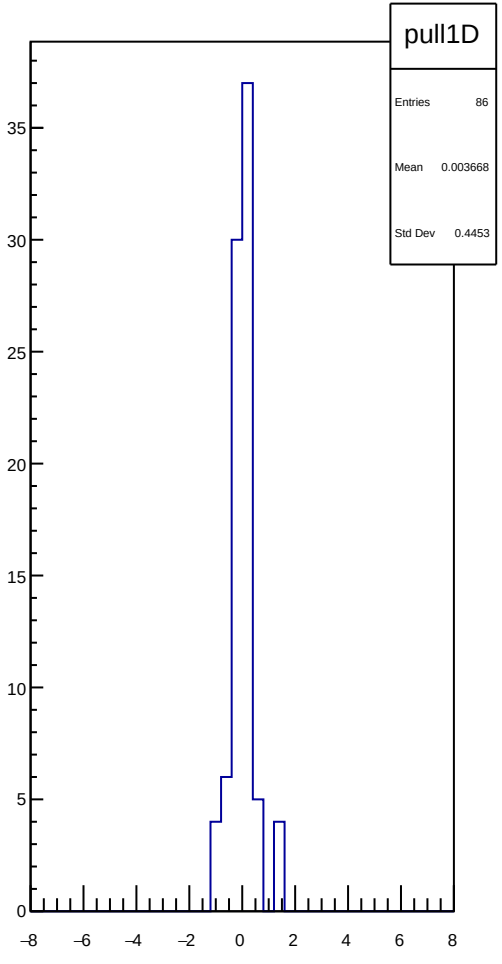

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 21.2 / 85
p0 122.3 ± 1.417
160
150
140
130
120
110
100
90
pull
Entries 86
Mean −497.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

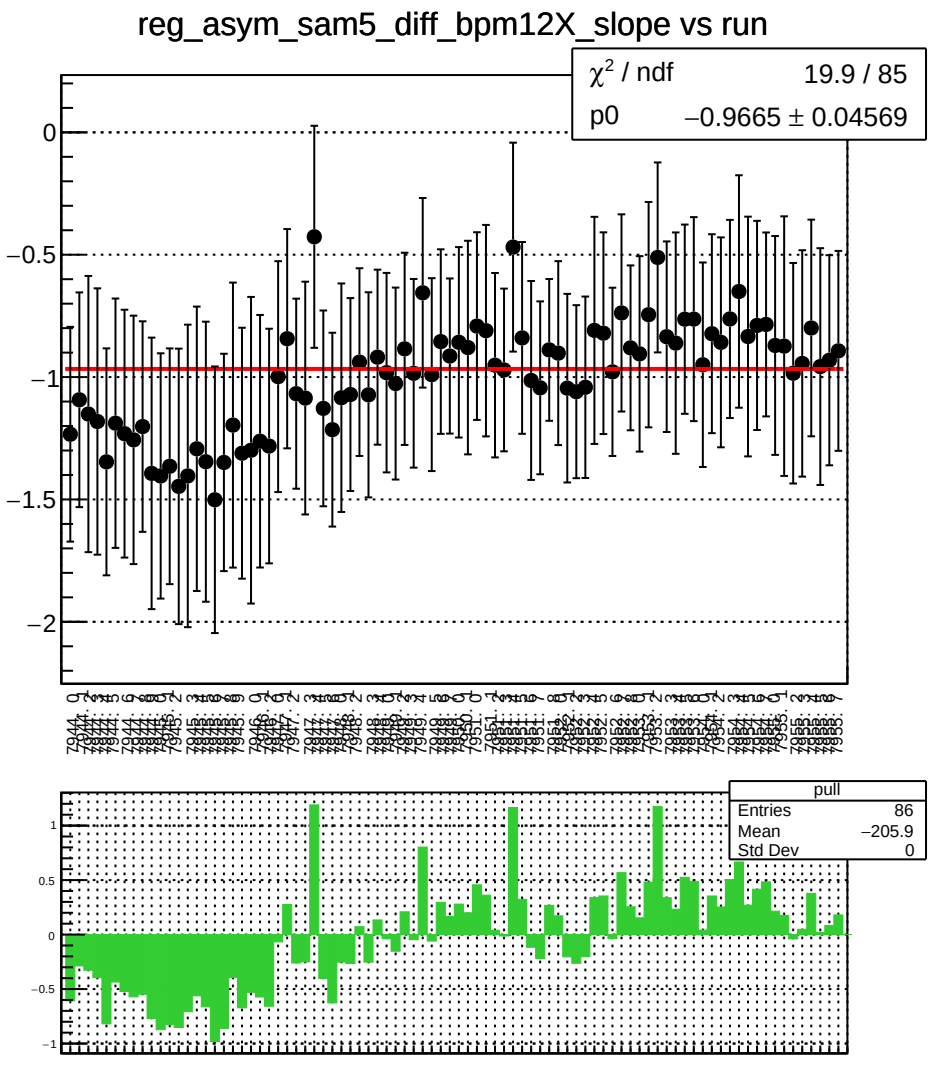

pull1D
Entries 86
Mean 0.004821
Std Dev 0.4964
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

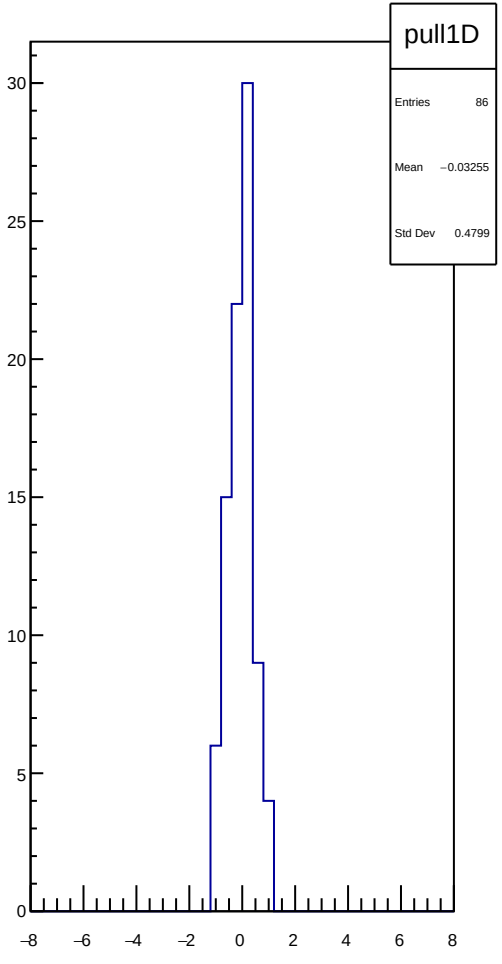

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 7.497 / 85
p0 11.83 ± 1.218
pull
Entries 86
Mean −2615
Std Dev 0

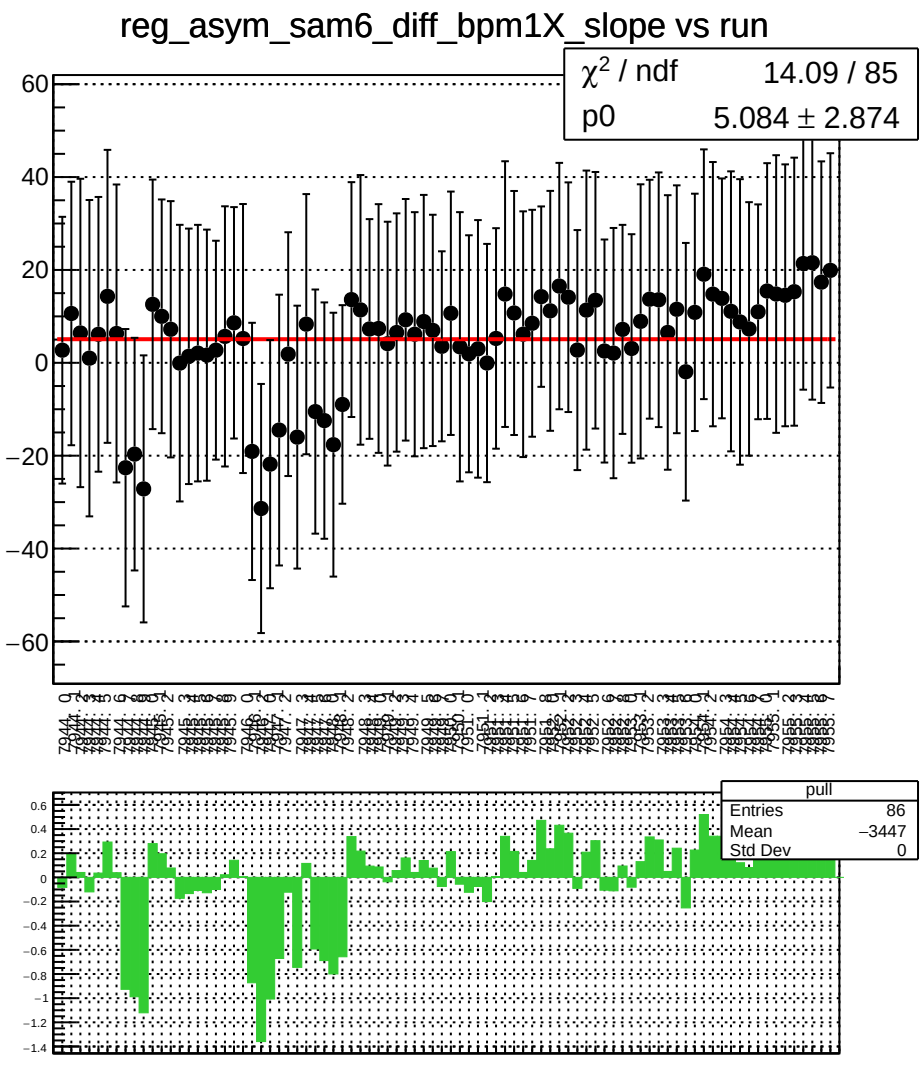

pull1D
Entries 86
Mean 0.001326
Std Dev 0.2952

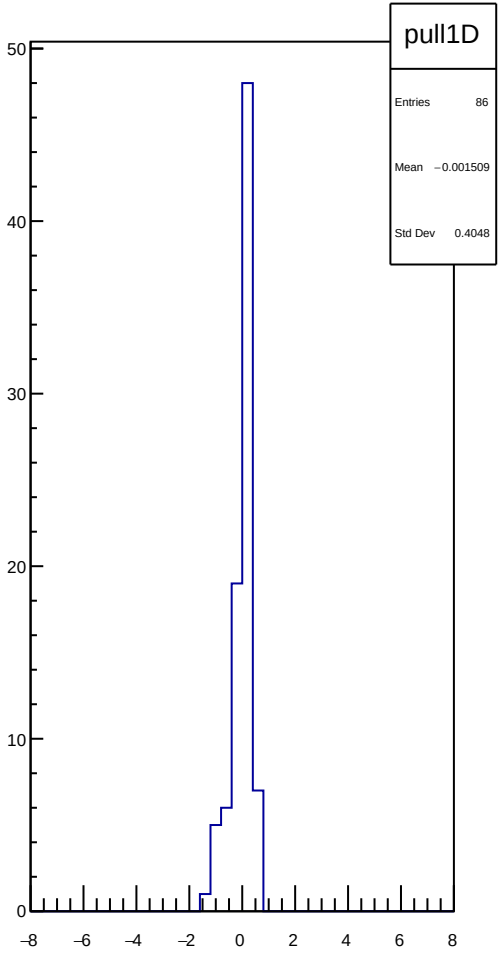

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 17.06 / 85
p0 21.53 ± 1.629
pull
Entries 86
Mean 766.5
Std Dev 0

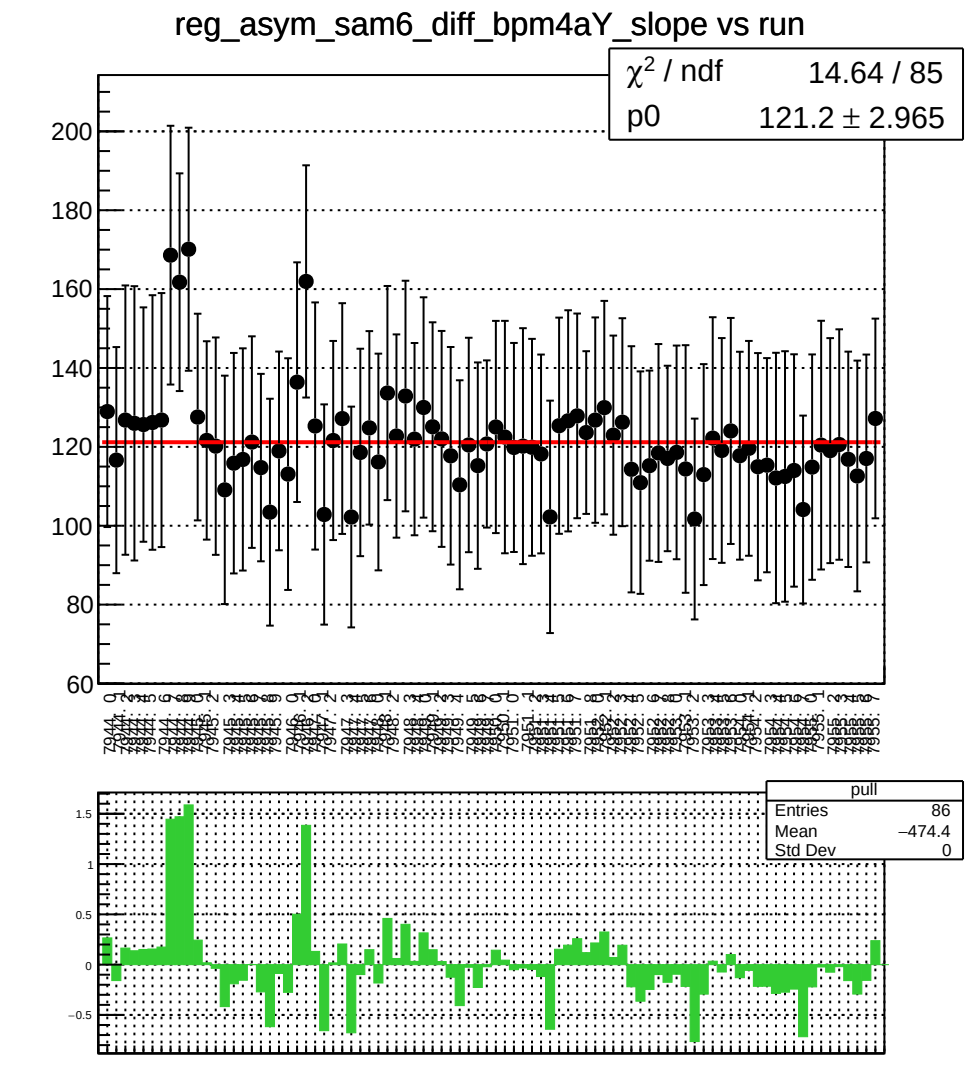

pull1D
Entries 86
Mean 0.003668
Std Dev 0.4453

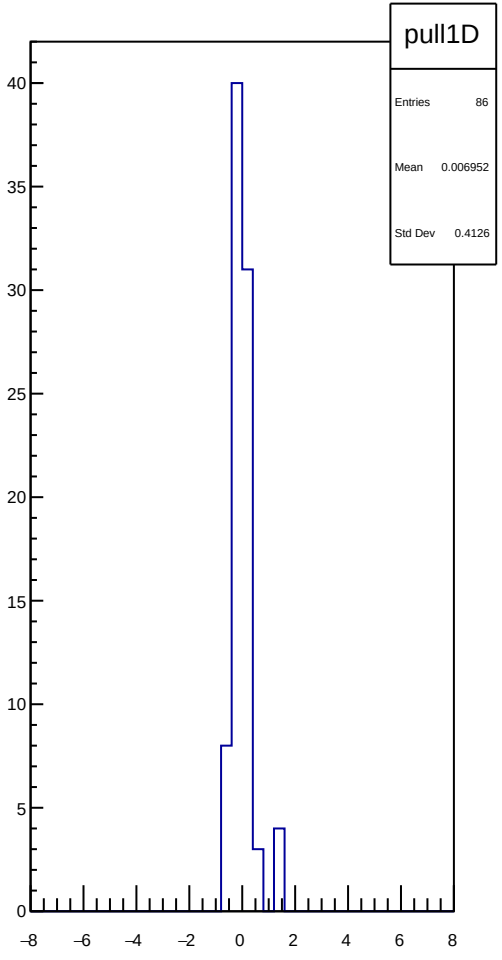

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 19.9 / 85
p0 −0.9665 ± 0.04569
pull
Entries 86
Mean −205.9
Std Dev 0

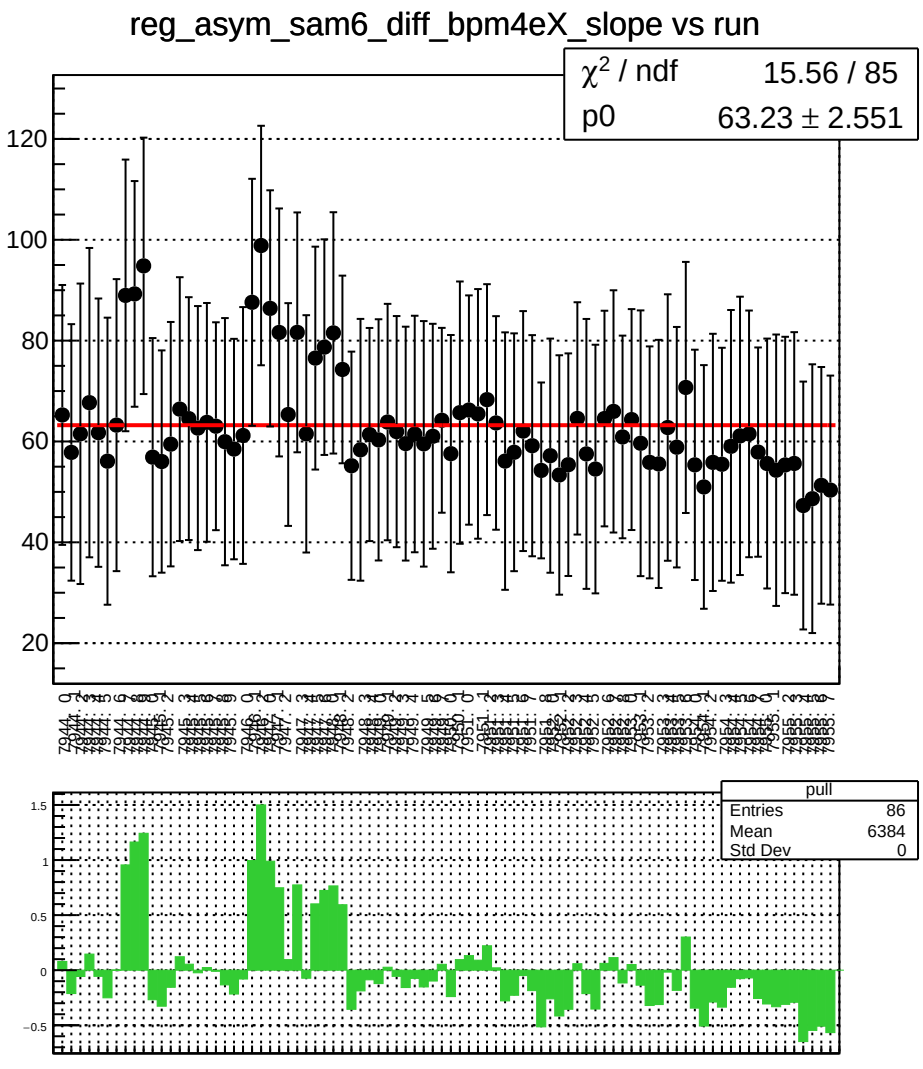

pull1D
Entries 86
Mean −0.03255
Std Dev 0.4799

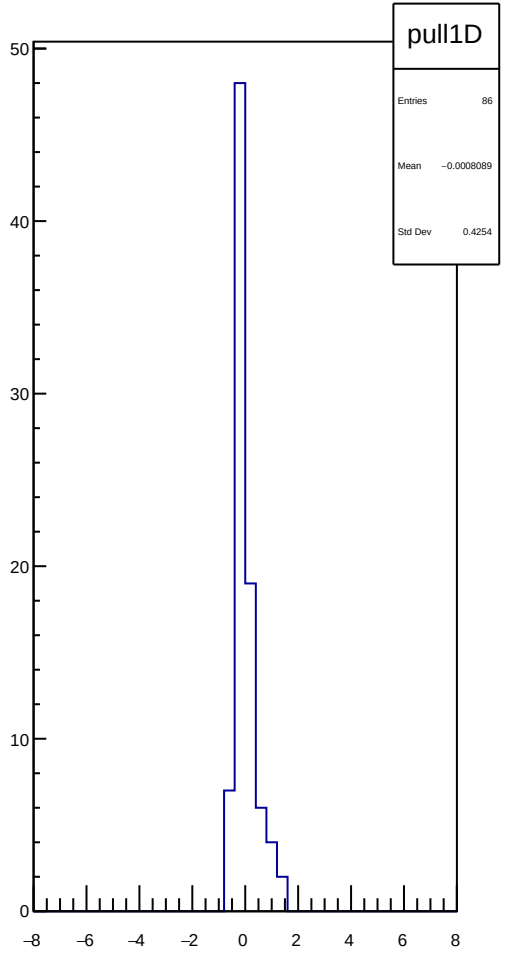

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 14.09 / 85
p0 5.084 ± 2.874
pull
Entries 86
Mean −3447
Std Dev 0

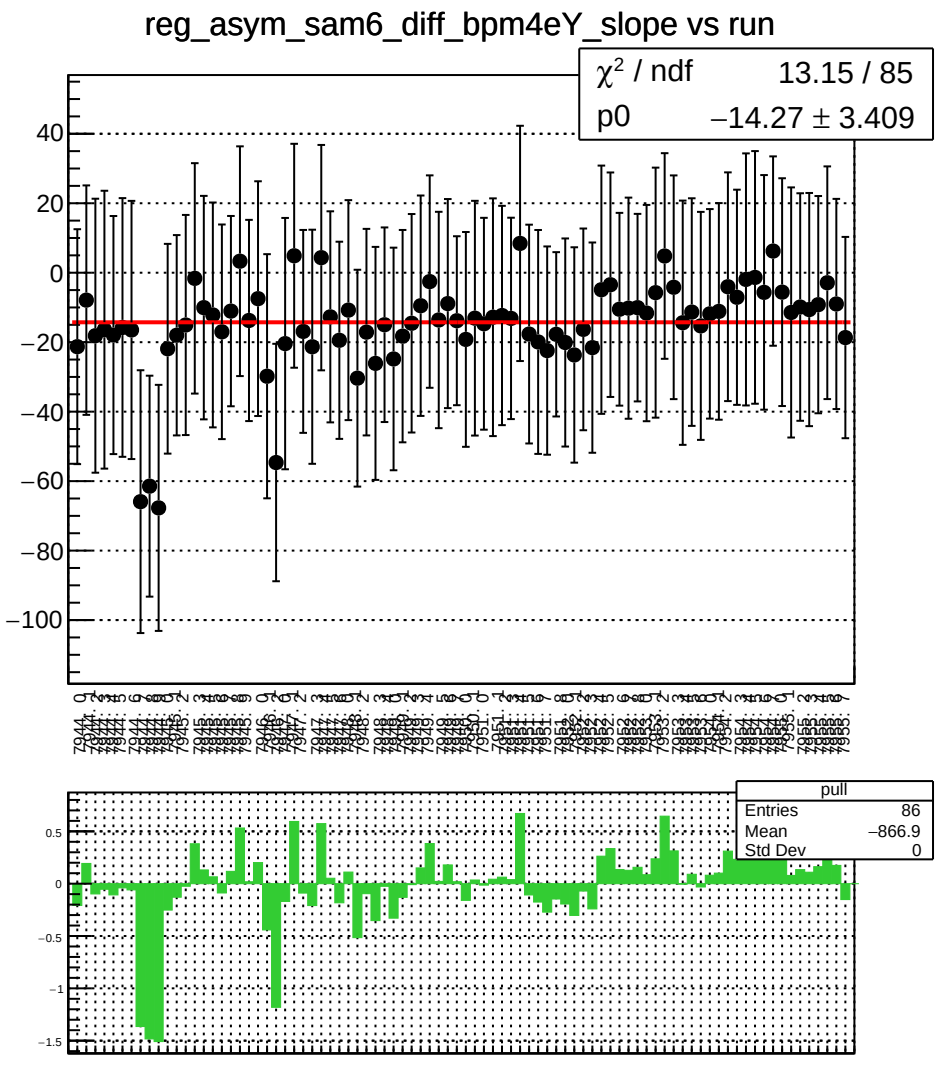

pull1D
Entries 86
Mean −0.001509
Std Dev 0.4048

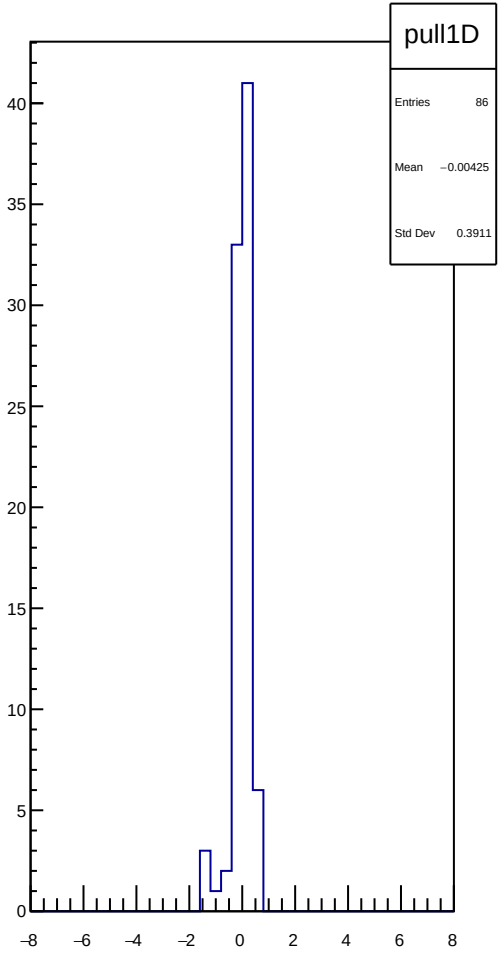

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 14.64 / 85
p0 121.2 ± 2.965
pull
Entries 86
Mean −474.4
Std Dev 0

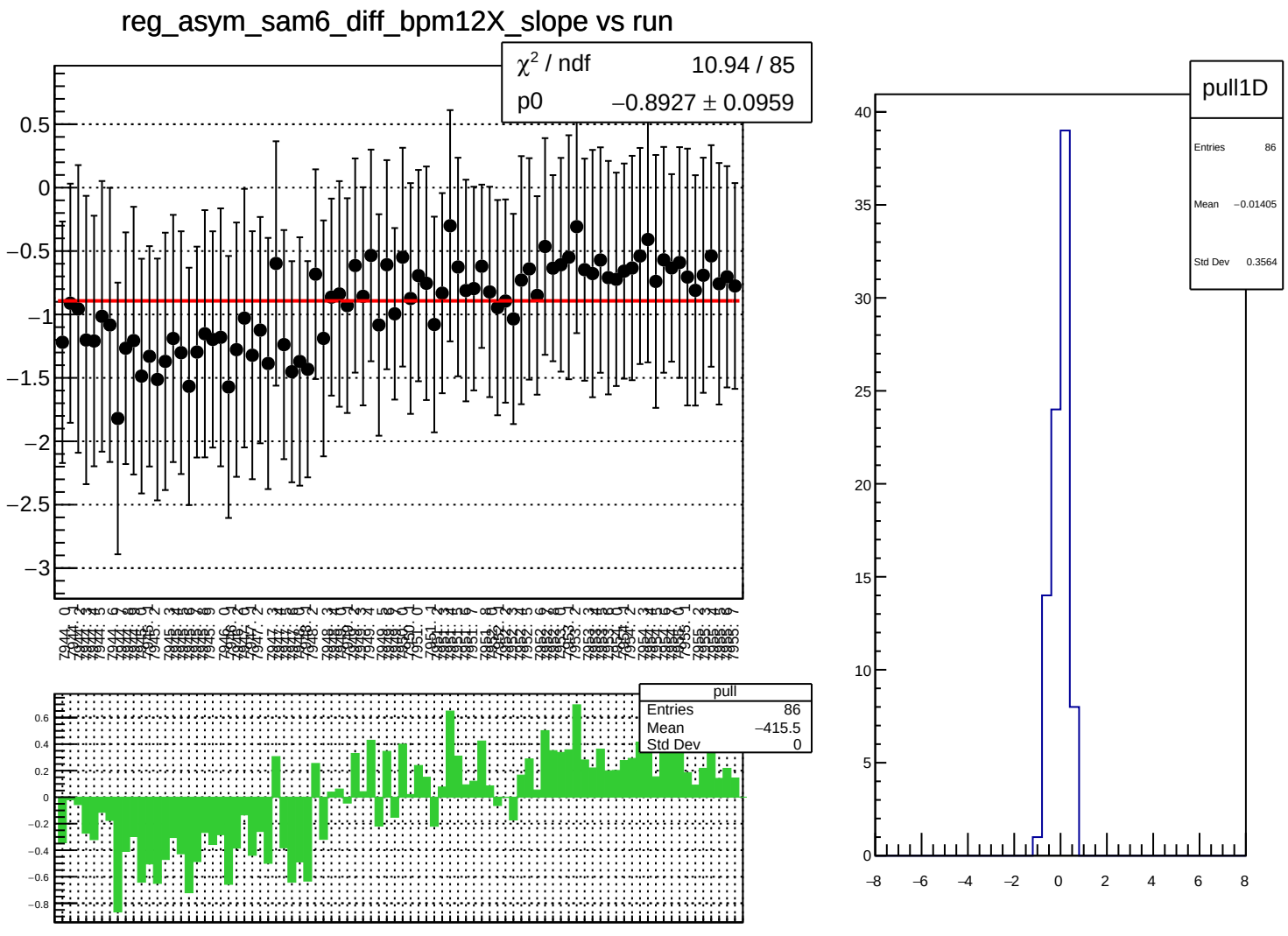

pull1D
Entries 86
Mean 0.006952
Std Dev 0.4126

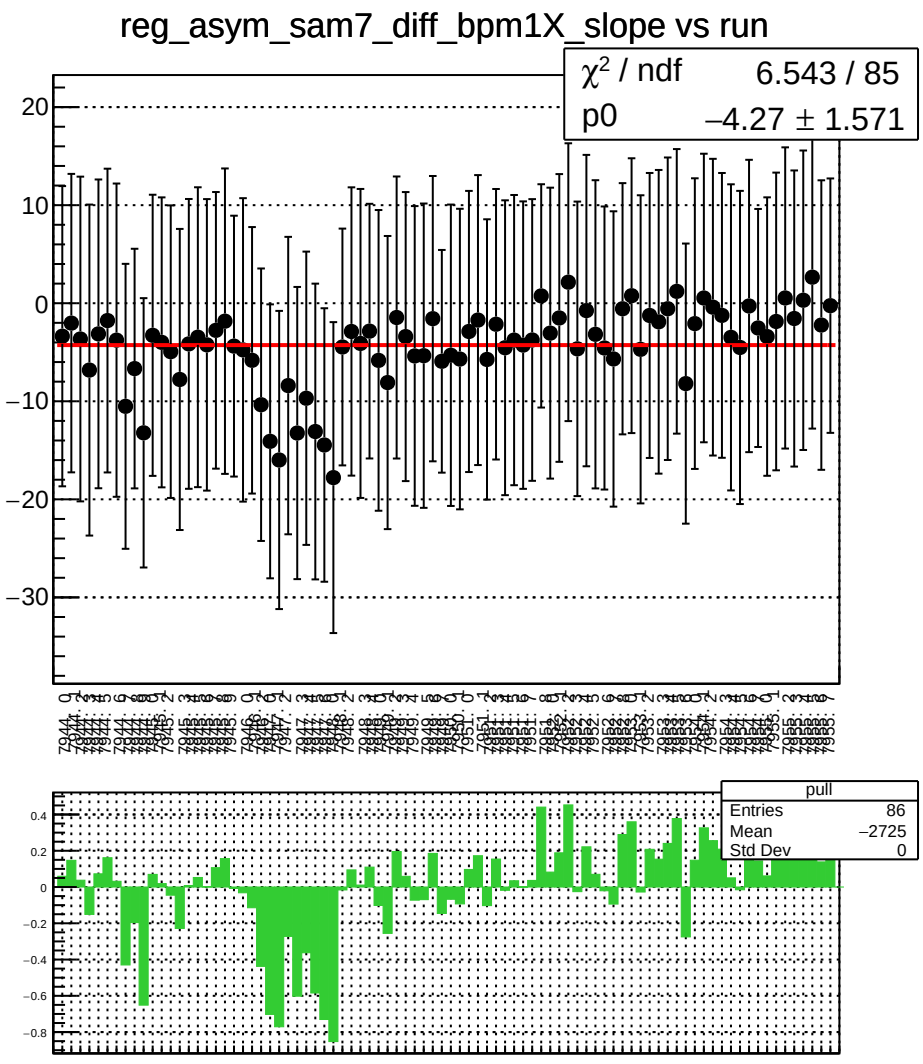

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 15.56 / 85
p0 63.23 ± 2.551
120
100
80
60
40
20
pull
Entries 86
Mean 6384
Std Dev 0
1.5
1
0.5
0
−0.5

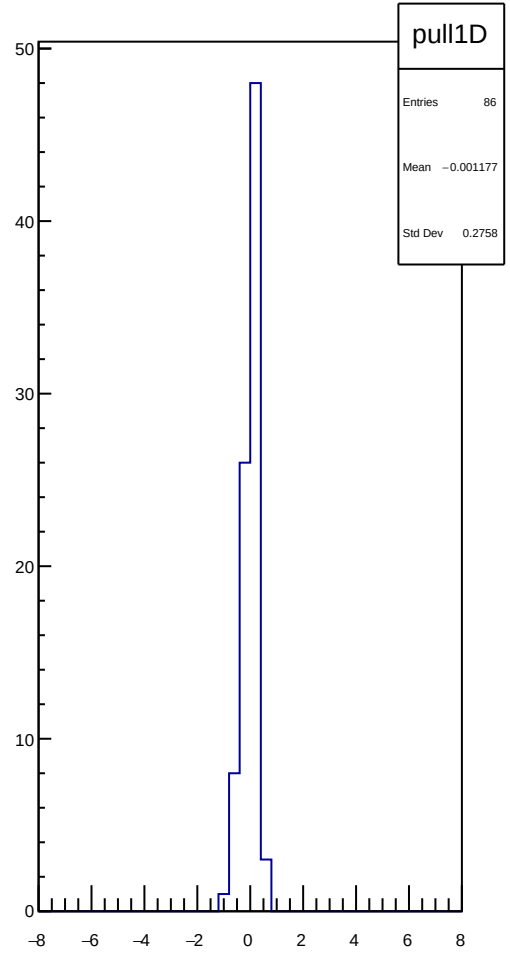

pull1D
Entries 86
Mean −0.0008089
Std Dev 0.4254
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

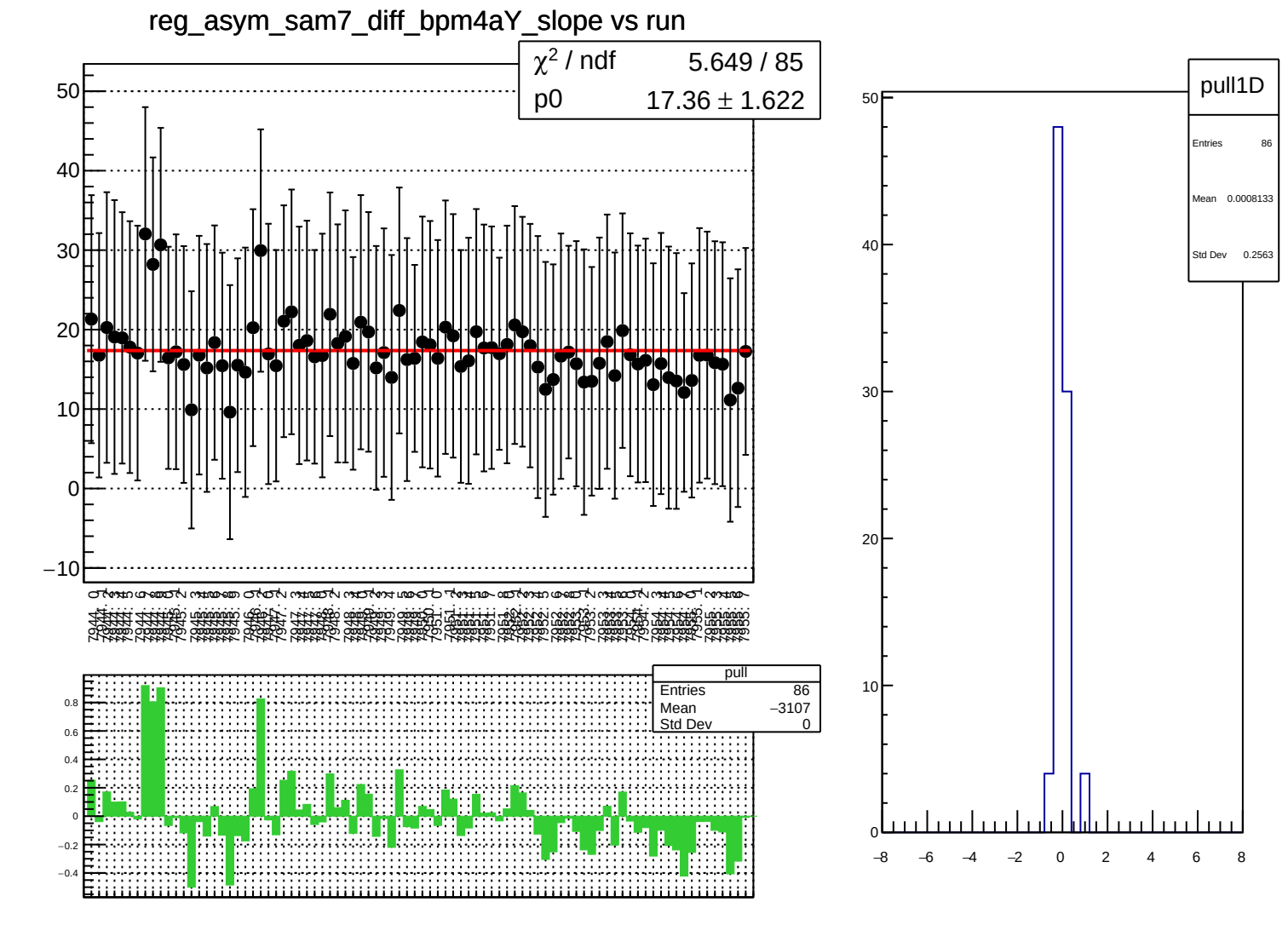

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 13.15 / 85
p0 −14.27 ± 3.409
pull
Entries 86
Mean −866.9
Std Dev 0

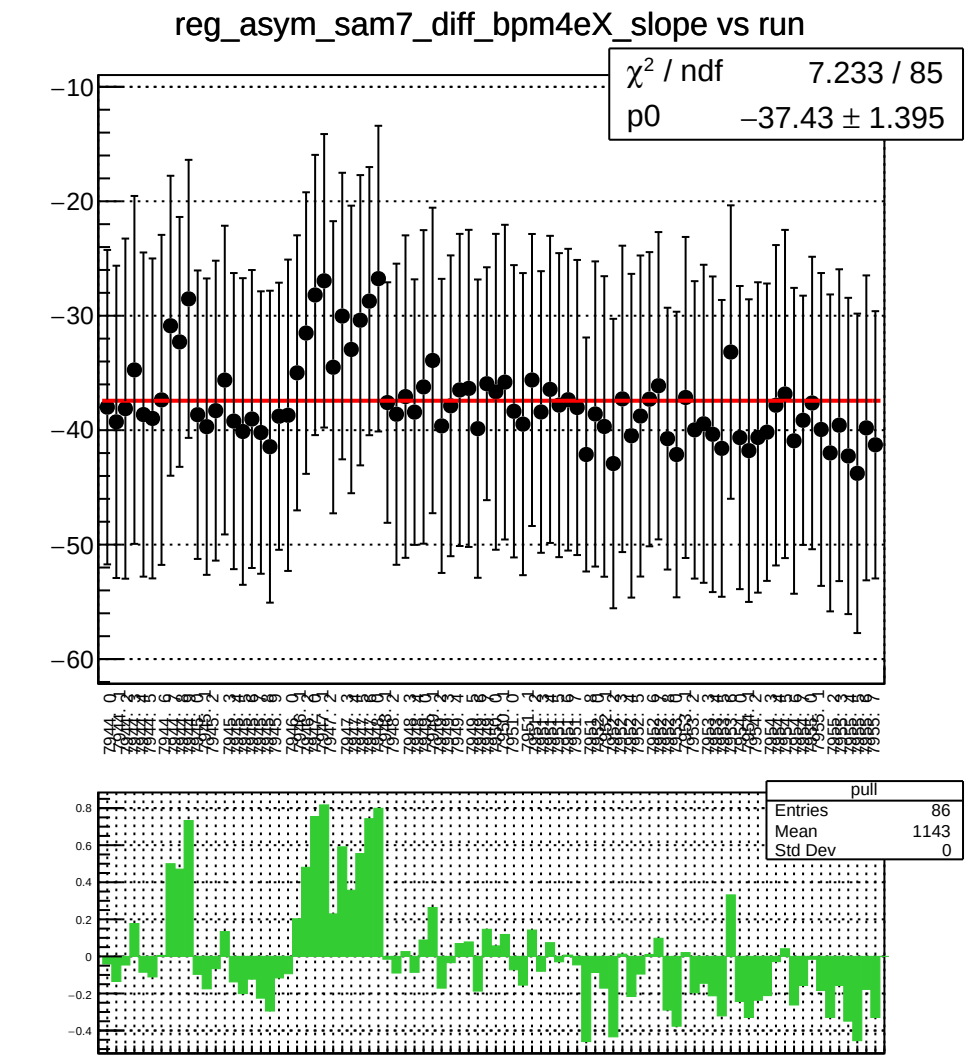

pull1D
Entries 86
Mean −0.00425
Std Dev 0.3911

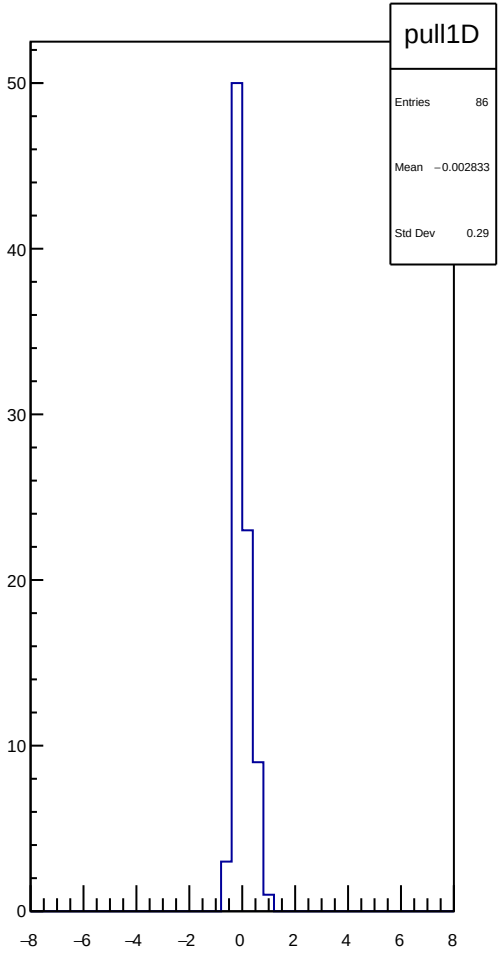

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 10.94 / 85
p0 −0.8927 ± 0.0959
pull
Entries 86
Mean −415.5
Std Dev 0
pull1D
Entries 86
Mean −0.01405
Std Dev 0.3564

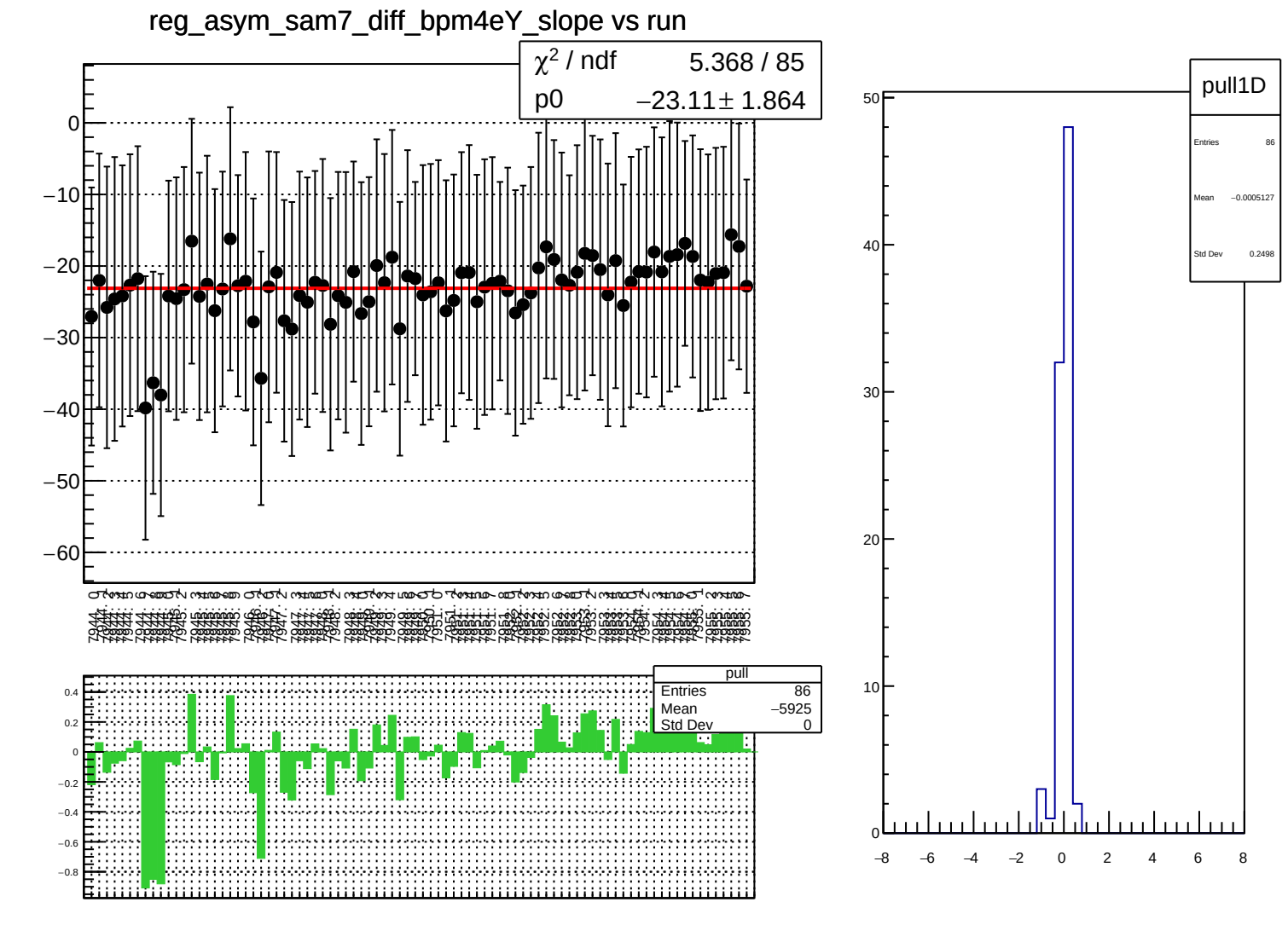

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 6.543 / 85
p0 −4.27 ± 1.571
pull
Entries 86
Mean −2725
Std Dev 0

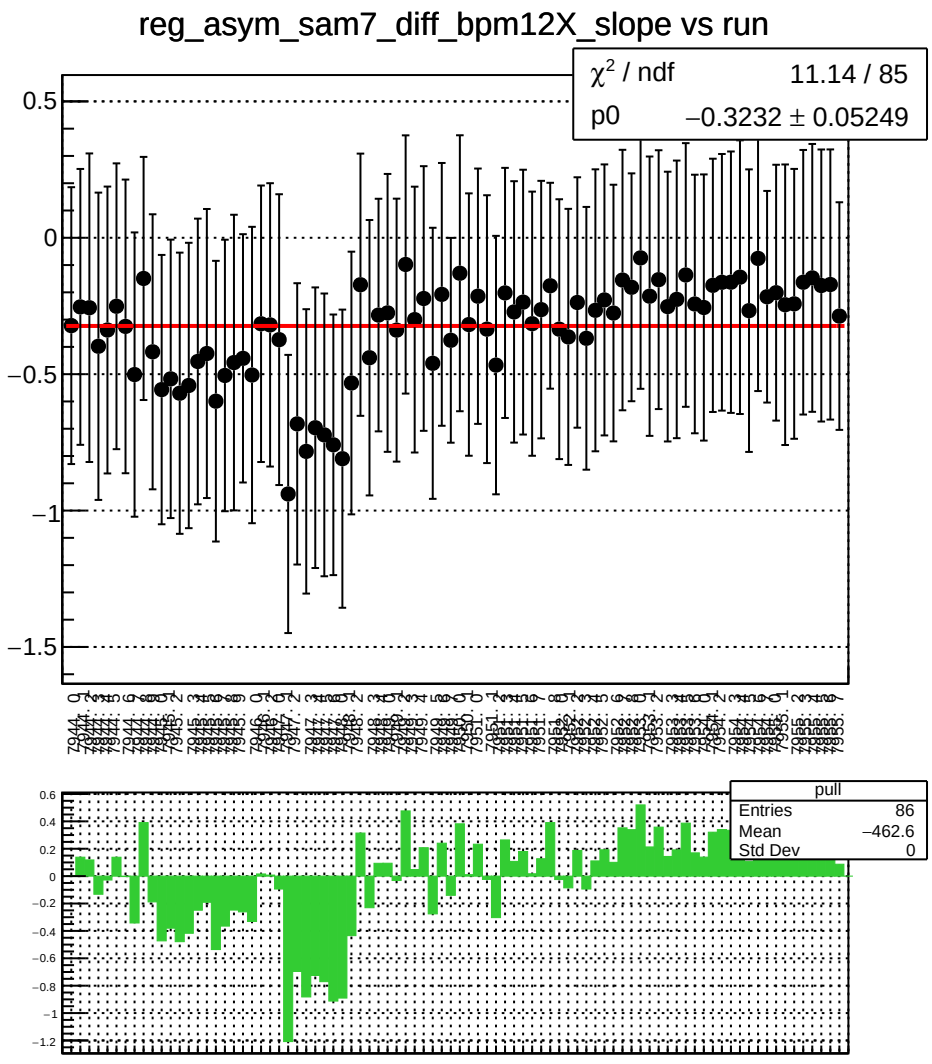

pull1D
Entries 86
Mean −0.001177
Std Dev 0.2758

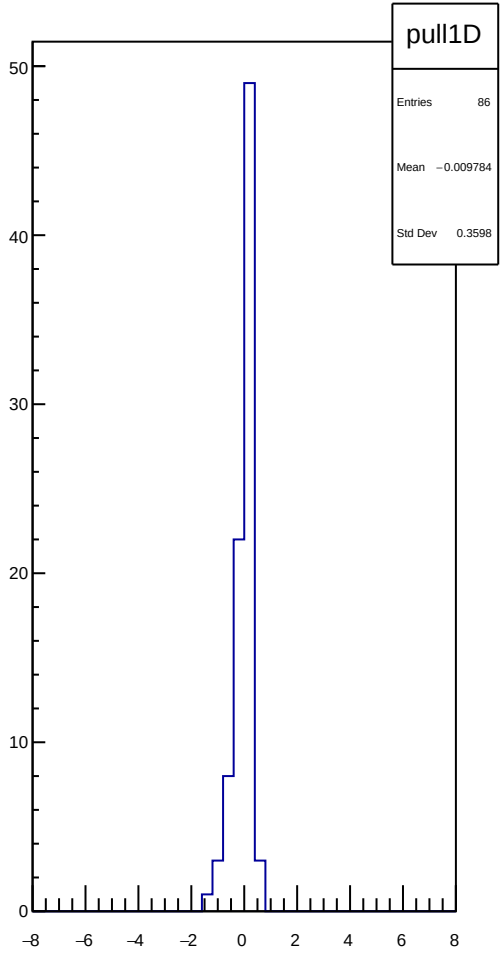

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 5.649 / 85
p0 17.36 ± 1.622
pull
Entries 86
Mean −3107
Std Dev 0
pull1D
Entries 86
Mean 0.0008133
Std Dev 0.2563

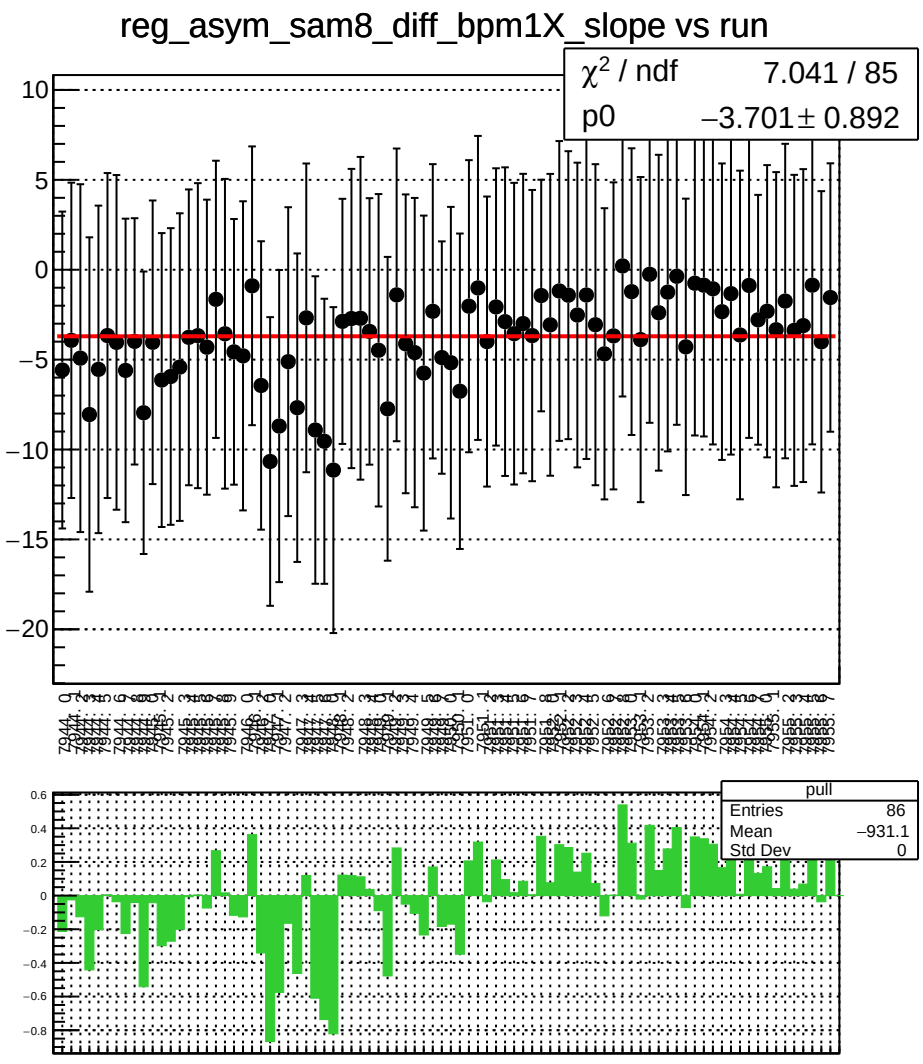

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 7.233 / 85
p0 −37.43 ± 1.395
pull
Entries 86
Mean 1143
Std Dev 0

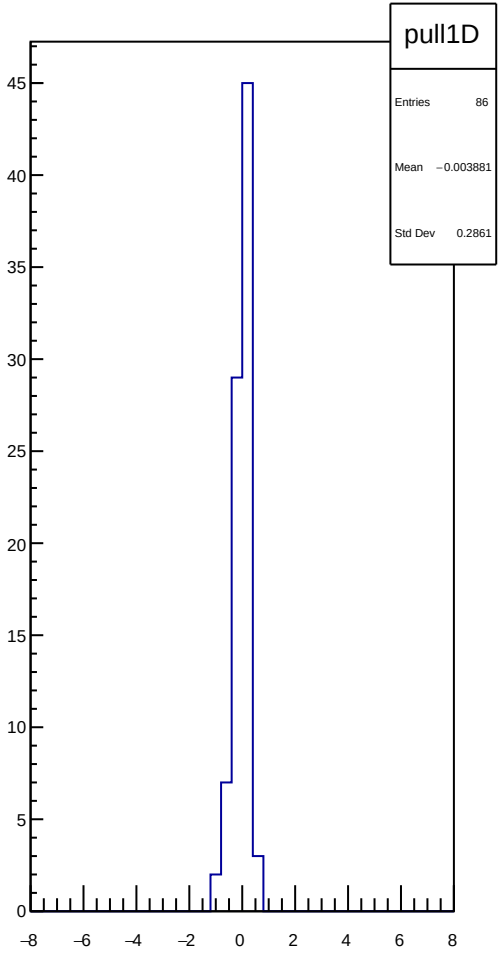

pull1D
Entries 86
Mean −0.002833
Std Dev 0.29

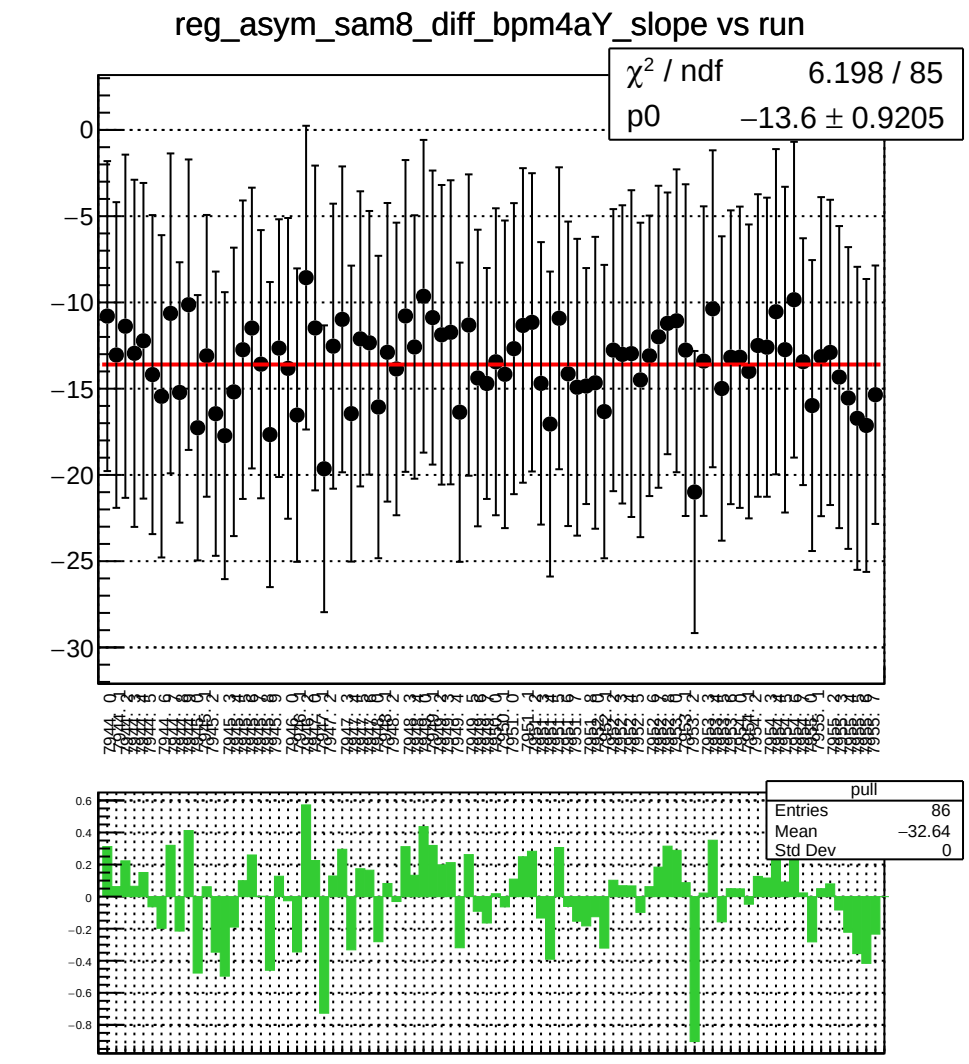

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 5.368 / 85
p0 −23.11± 1.864
pull
Entries 86
Mean −5925
Std Dev 0
pull1D
Entries 86
Mean −0.0005127
Std Dev 0.2498

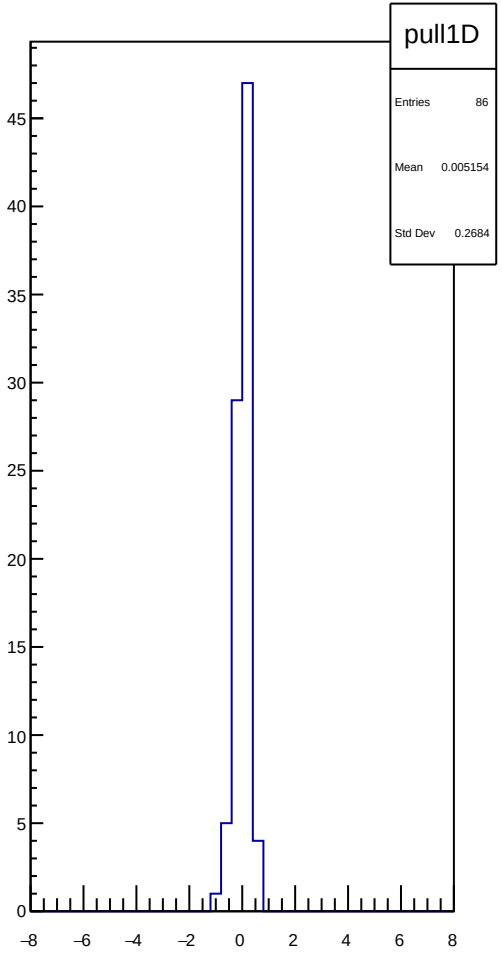

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 11.14 / 85
p0 −0.3232 ± 0.05249
pull
Entries 86
Mean −462.6
Std Dev 0

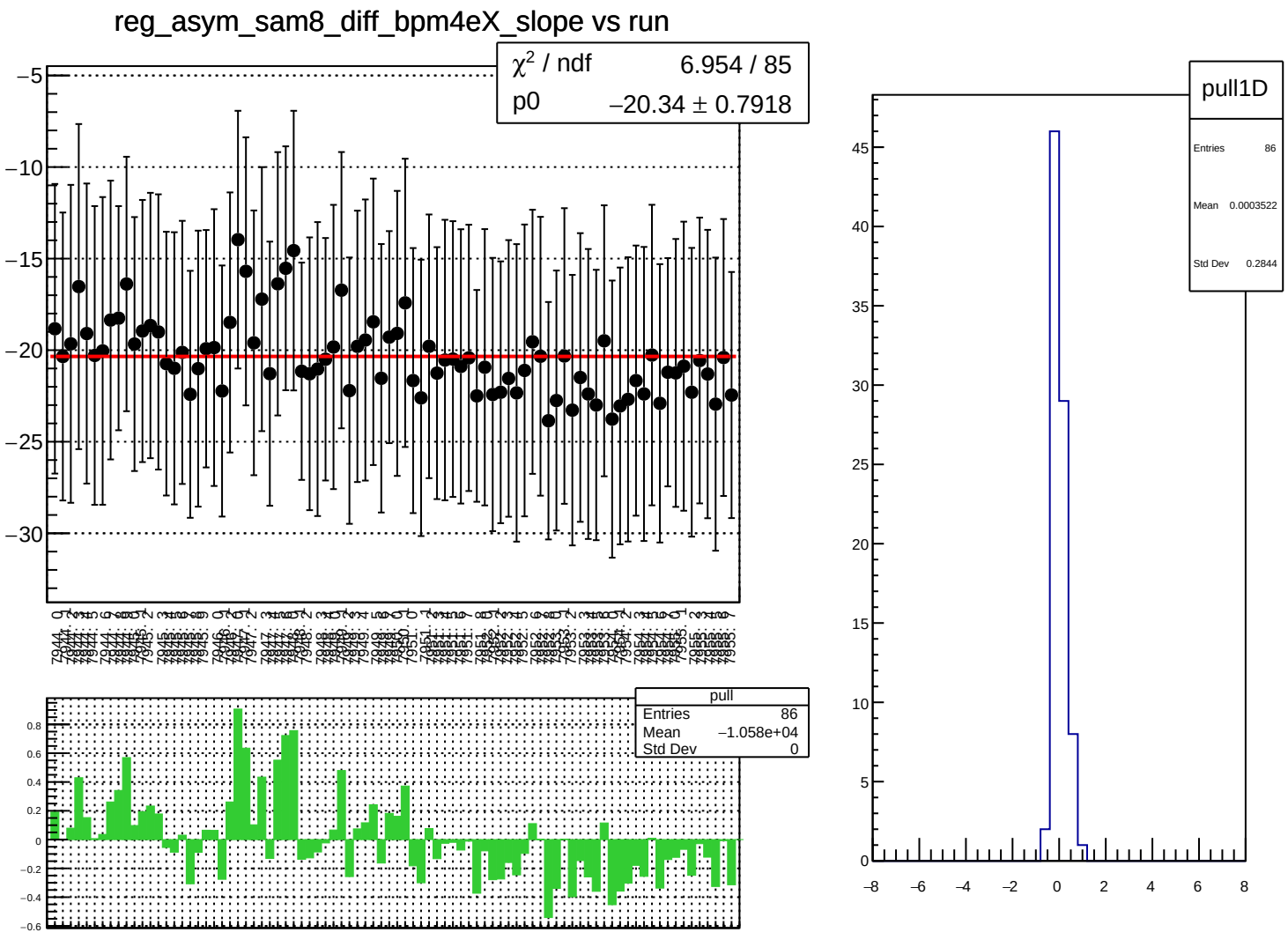

pull1D
Entries 86
Mean −0.009784
Std Dev 0.3598

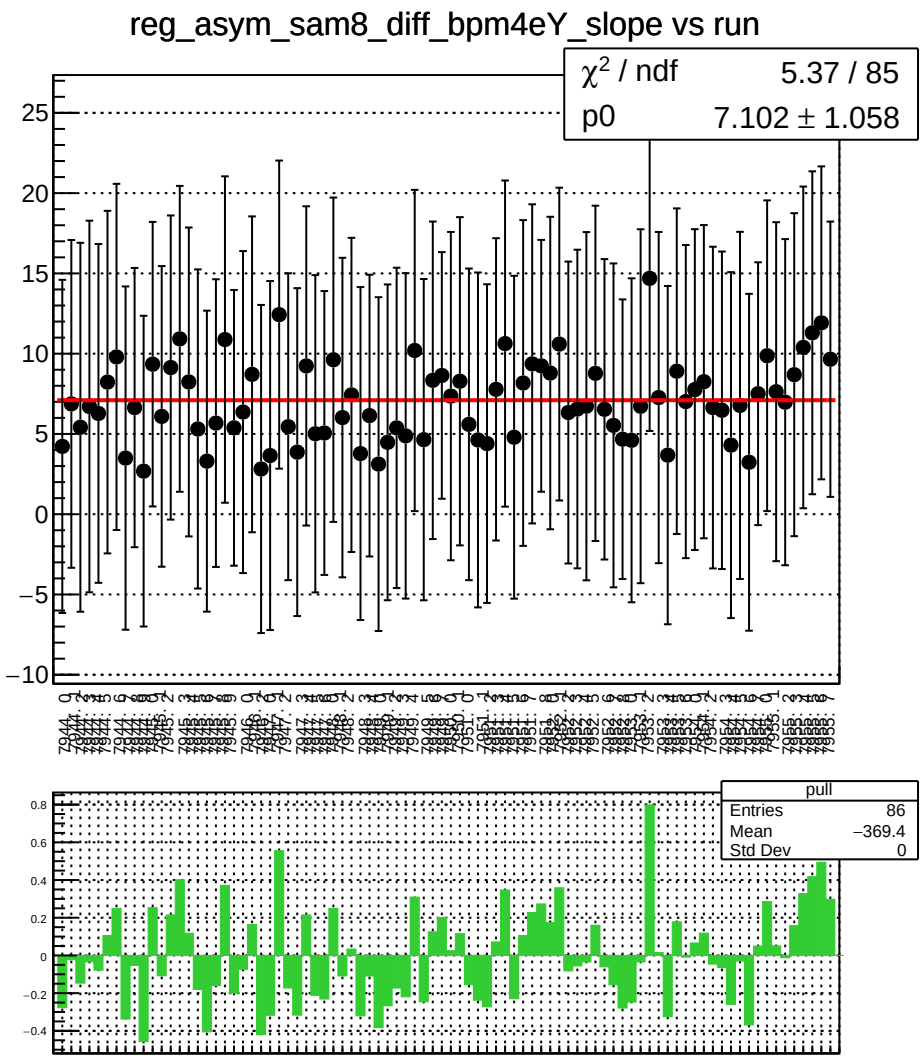

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 7.041 / 85
p0 −3.701 ± 0.892
pull
Entries 86
Mean −931.1
Std Dev 0

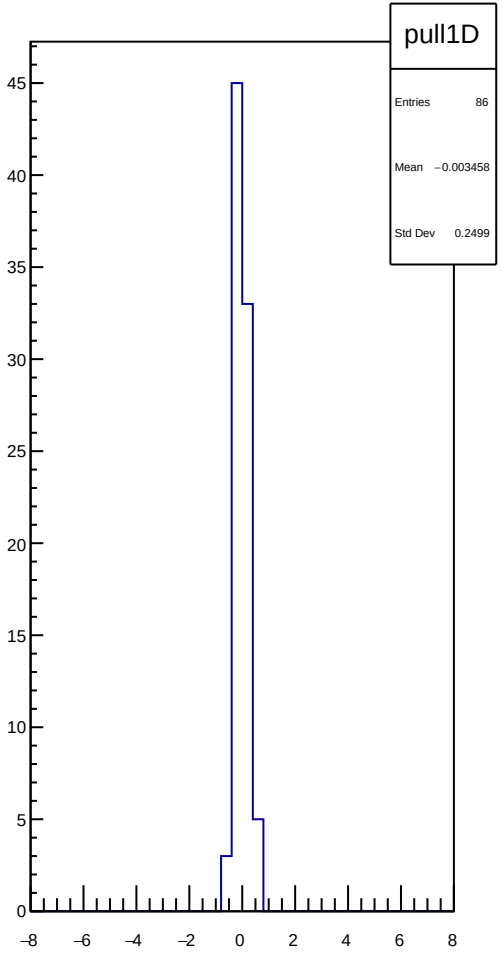

pull1D
Entries 86
Mean −0.003881
Std Dev 0.2861

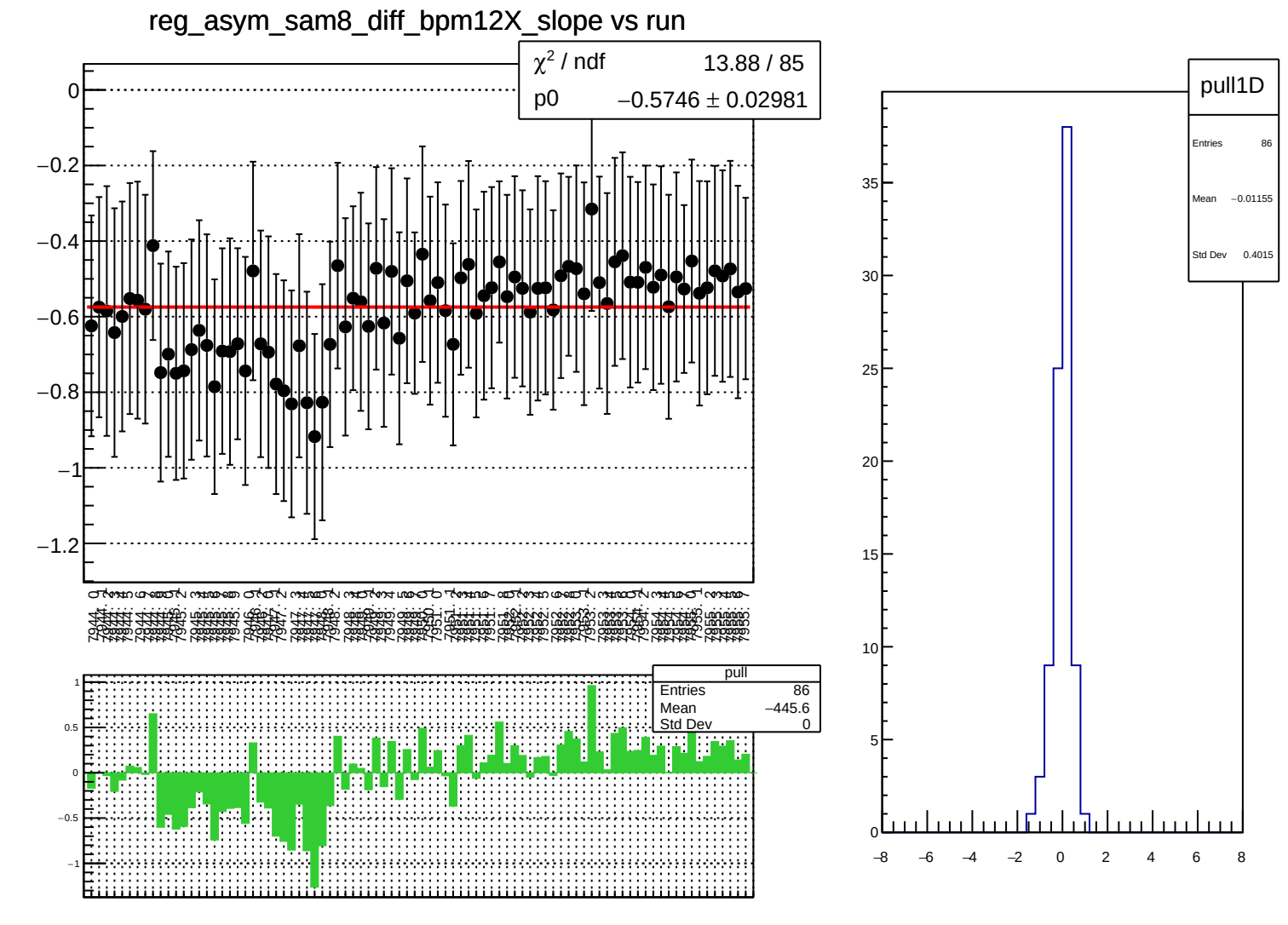

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 6.198 / 85
p0 −13.6 ± 0.9205
pull
Entries 86
Mean −32.64
Std Dev 0

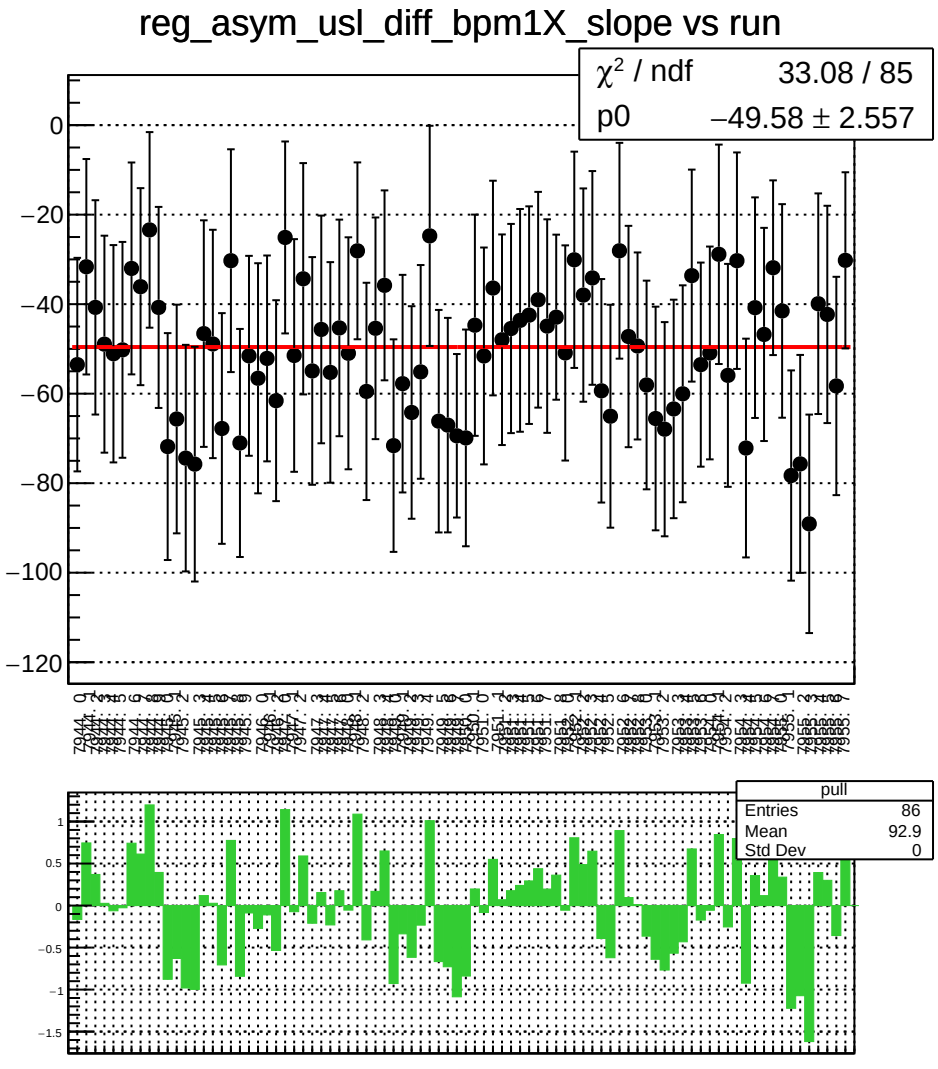

pull1D
Entries 86
Mean 0.005154
Std Dev 0.2684

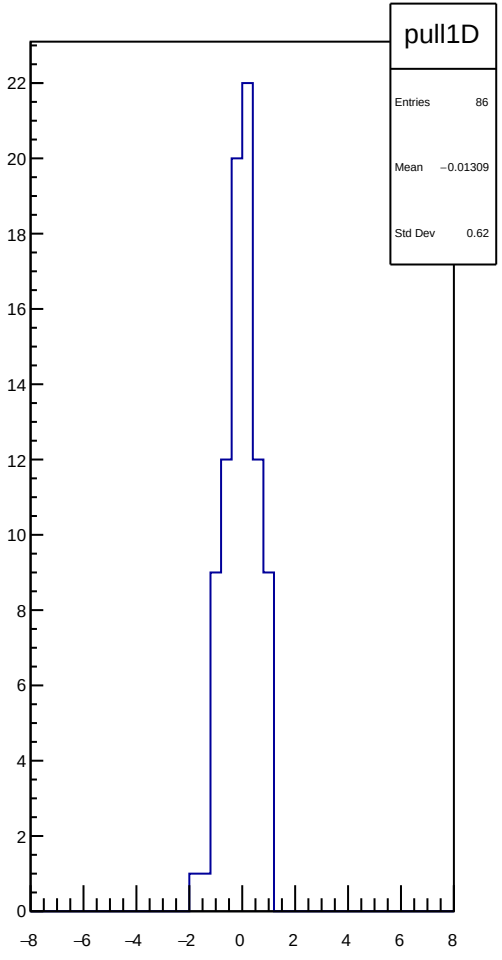

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 6.954 / 85
p0 −20.34 ± 0.7918
pull
Entries 86
Mean −1.058e+04
Std Dev 0
pull1D
Entries 86
Mean 0.0003522
Std Dev 0.2844

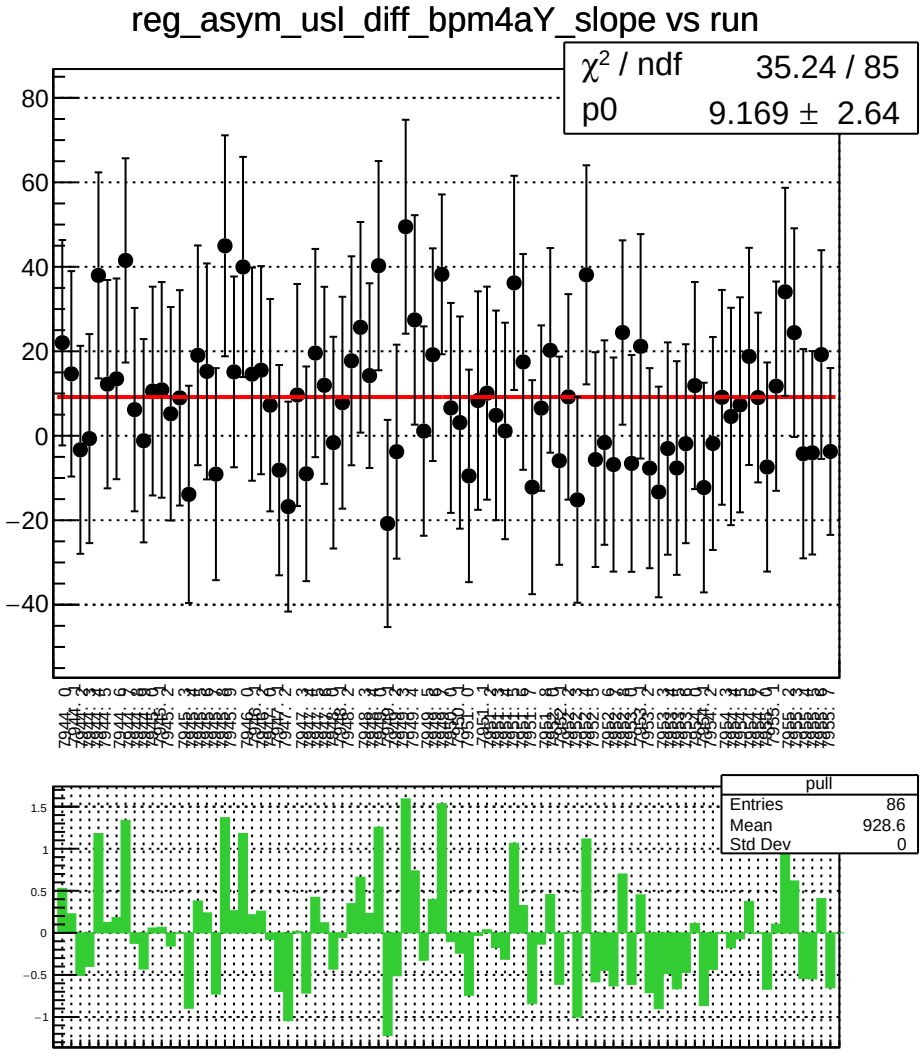

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 5.37 / 85
p0 7.102 ± 1.058
pull
Entries 86
Mean −369.4
Std Dev 0

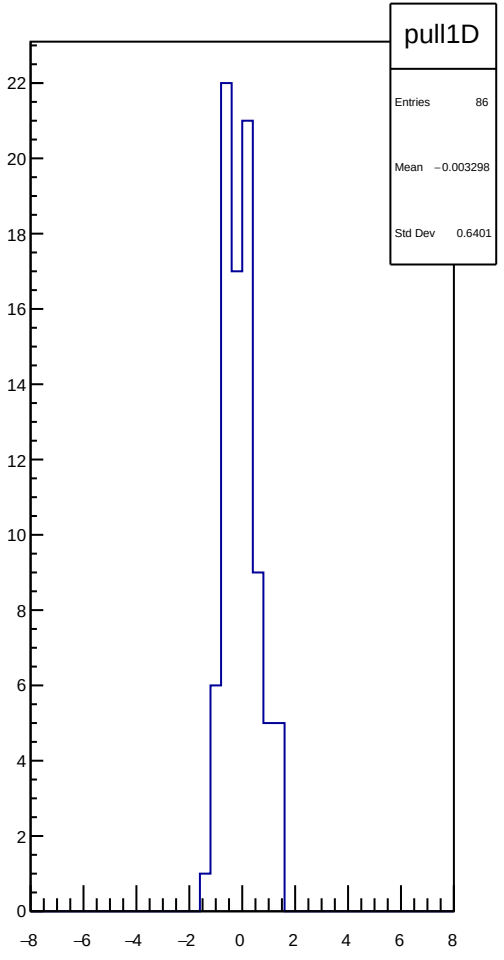

pull1D
Entries 86
Mean −0.003458
Std Dev 0.2499

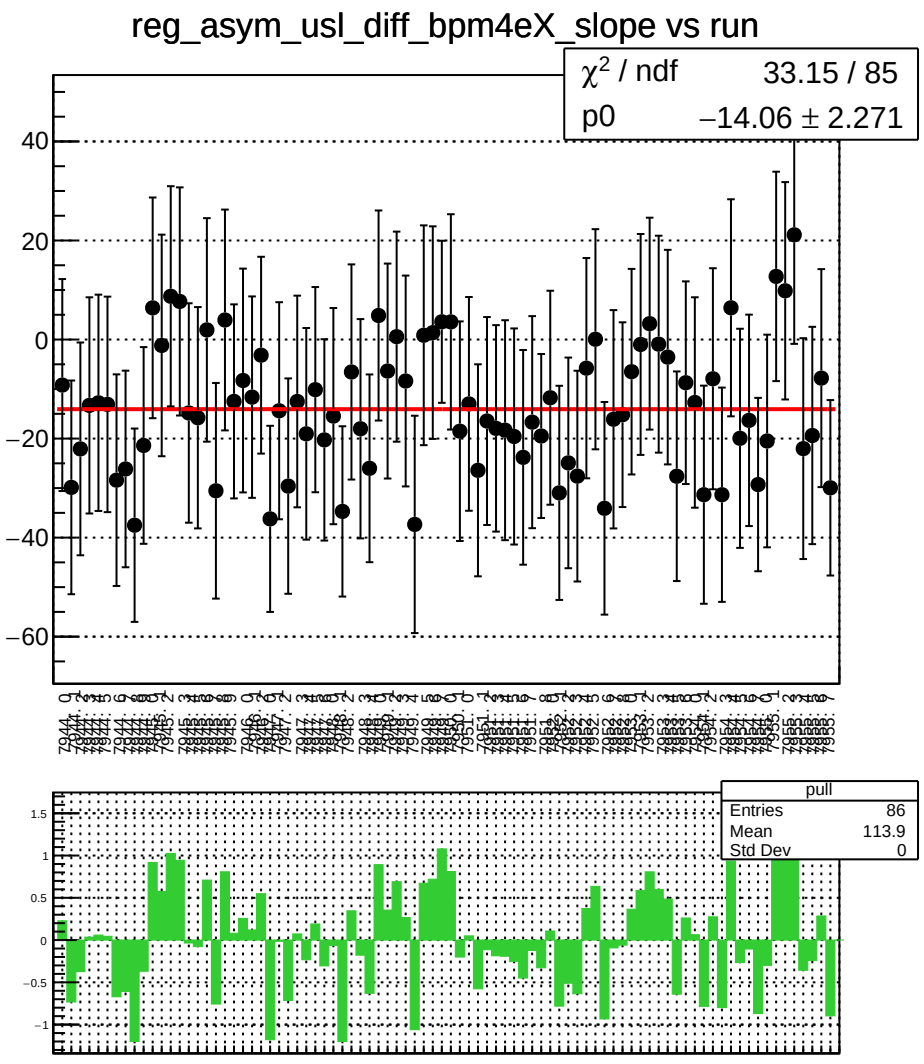

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 13.88 / 85
p0 −0.5746 ± 0.02981
pull
Entries 86
Mean −445.6
Std Dev 0
pull1D
Entries 86
Mean −0.01155
Std Dev 0.4015

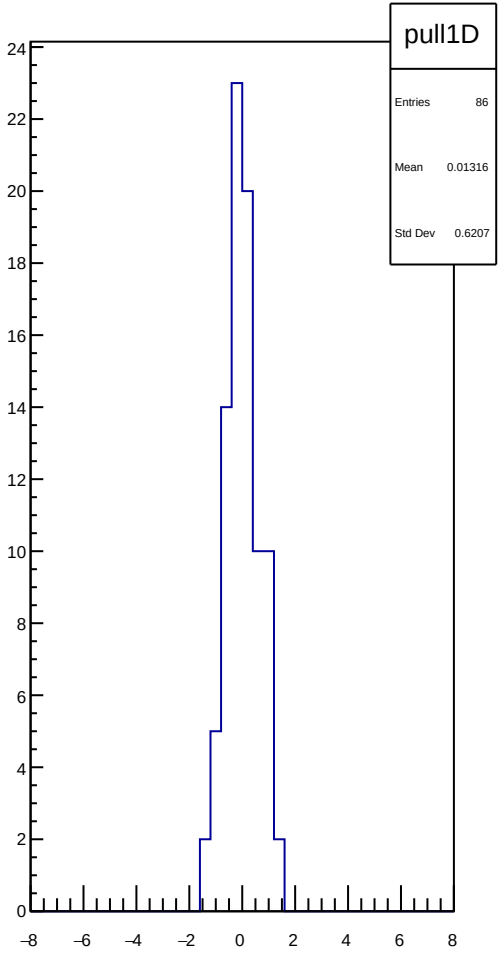

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 33.08 / 85
p0 −49.58 ± 2.557
pull
Entries 86
Mean 92.9
Std Dev 0

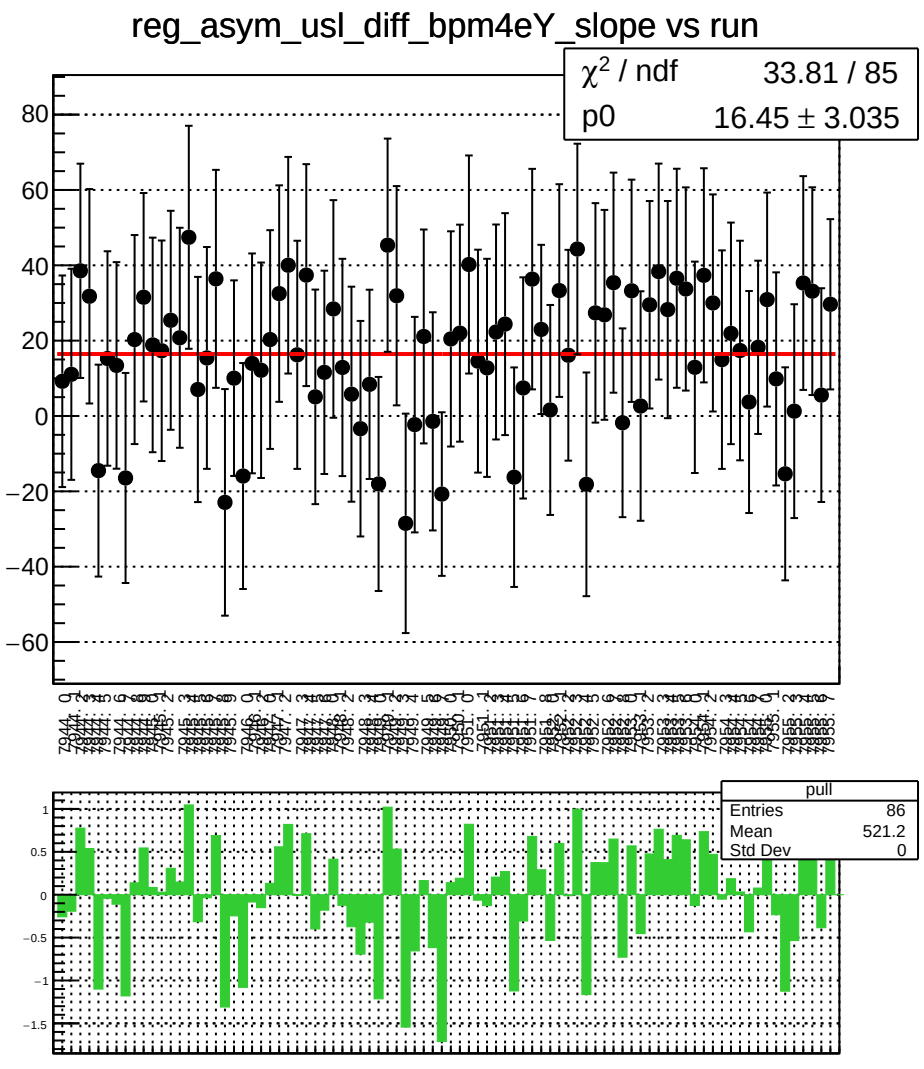

pull1D
Entries 86
Mean −0.01309
Std Dev 0.62

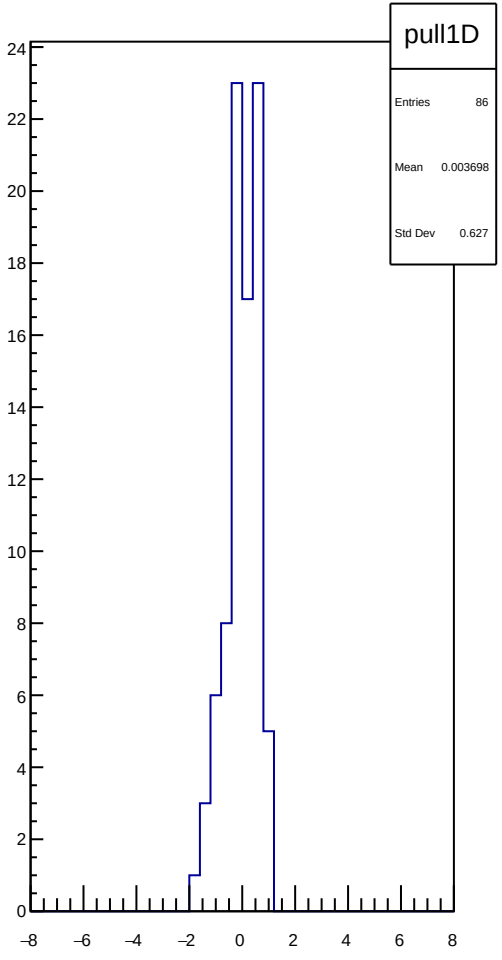

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 35.24 / 85
p0 9.169 ± 2.64
pull
Entries 86
Mean 928.6
Std Dev 0

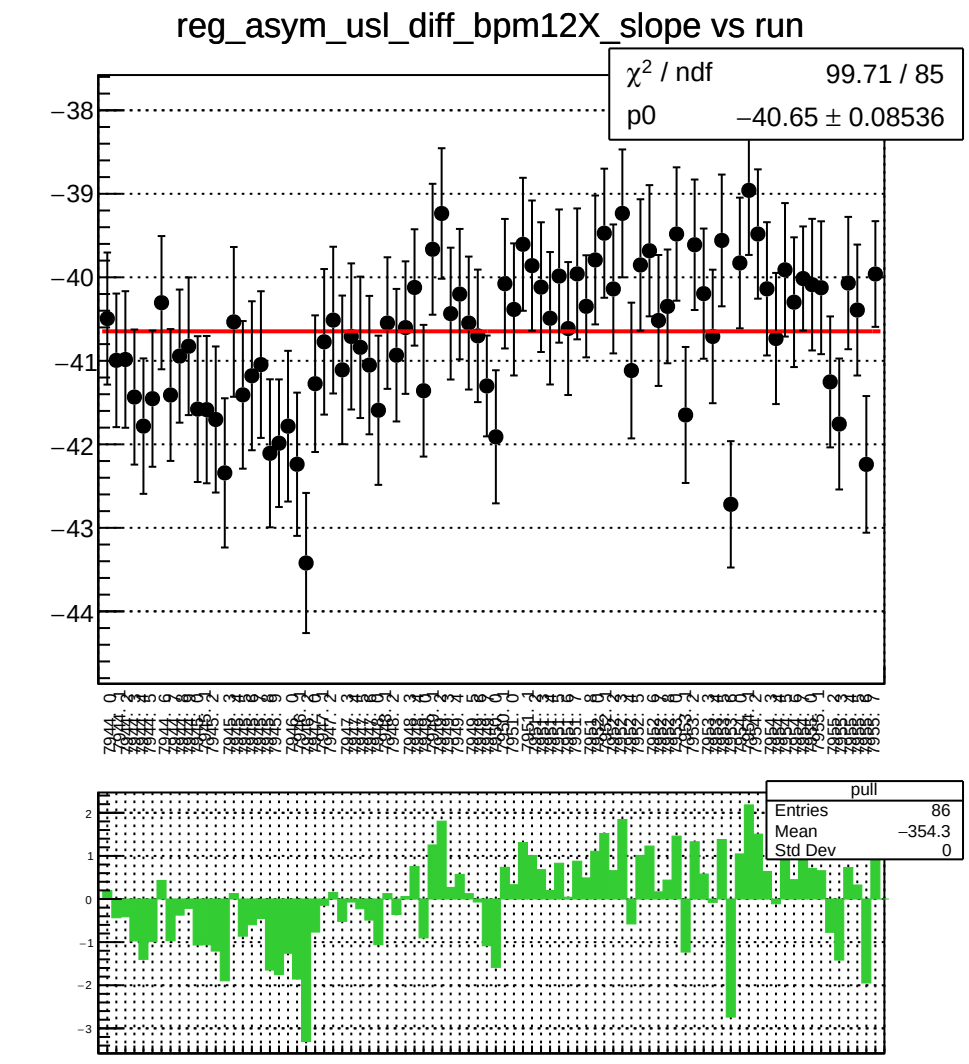

pull1D
Entries 86
Mean −0.003298
Std Dev 0.6401

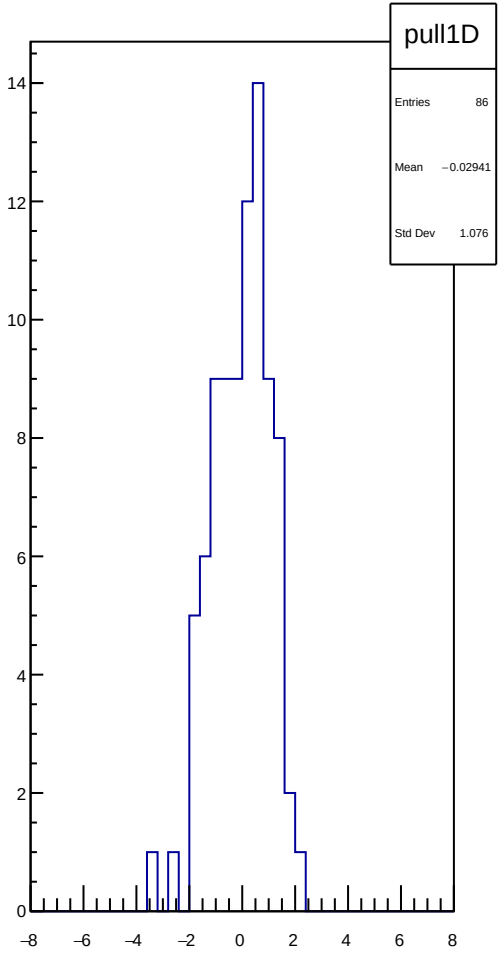

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 33.15 / 85
p0 −14.06 ± 2.271
pull
Entries 86
Mean 113.9
Std Dev 0

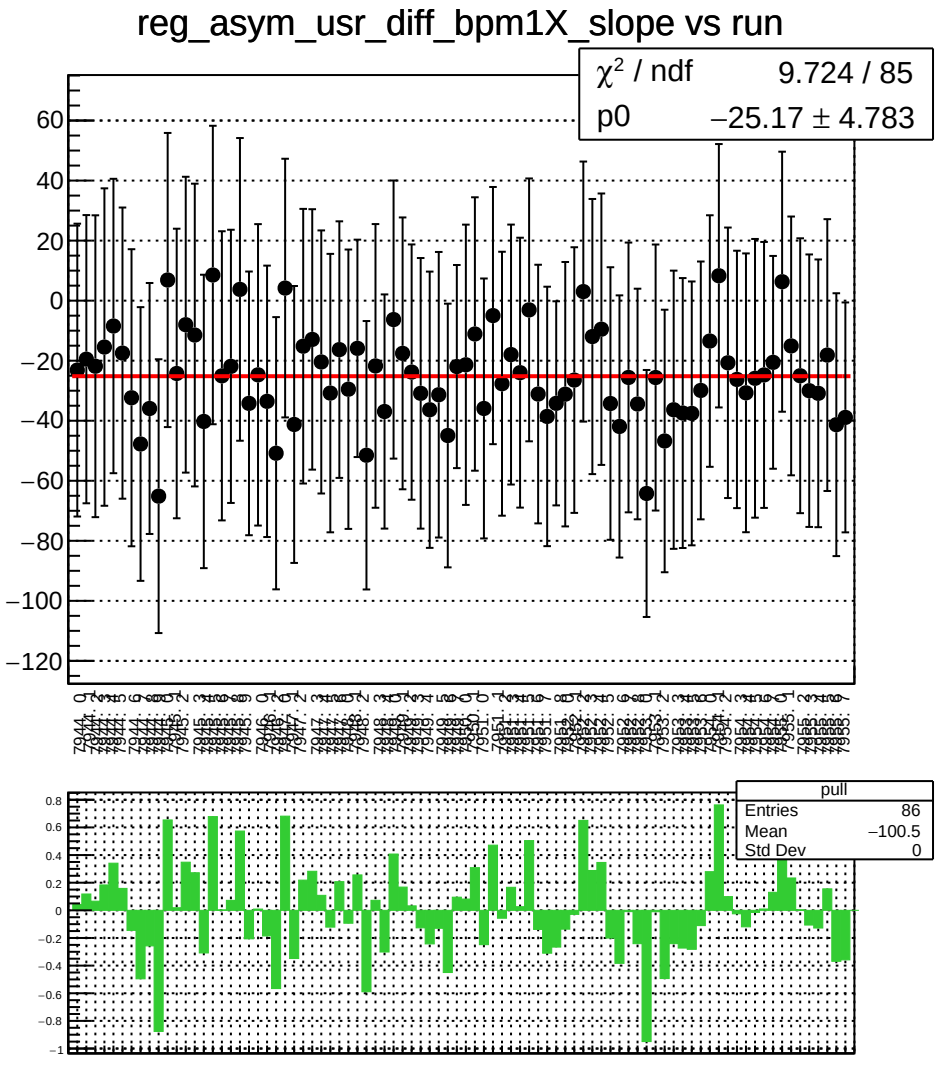

pull1D
Entries 86
Mean 0.01316
Std Dev 0.6207

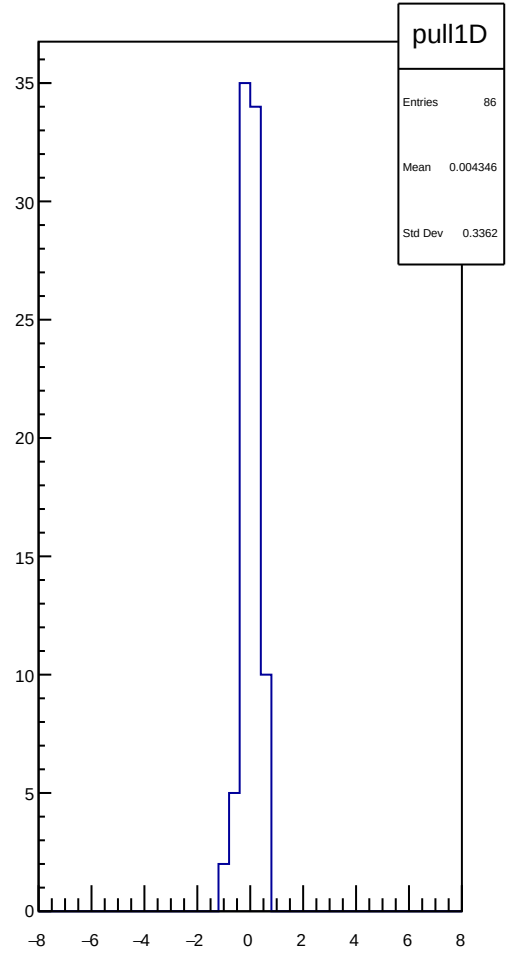

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 33.81 / 85
p0 16.45 ± 3.035
pull
Entries 86
Mean 521.2
Std Dev 0

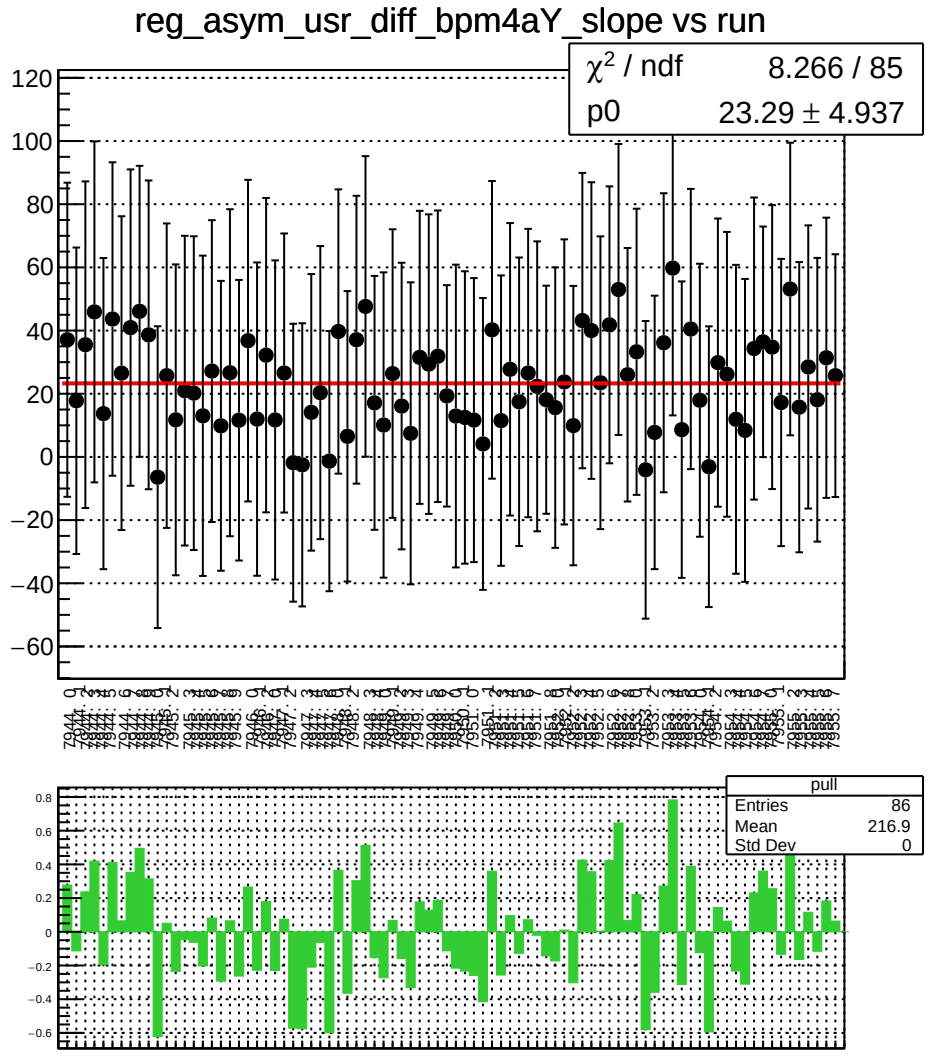

pull1D
Entries 86
Mean 0.003698
Std Dev 0.627

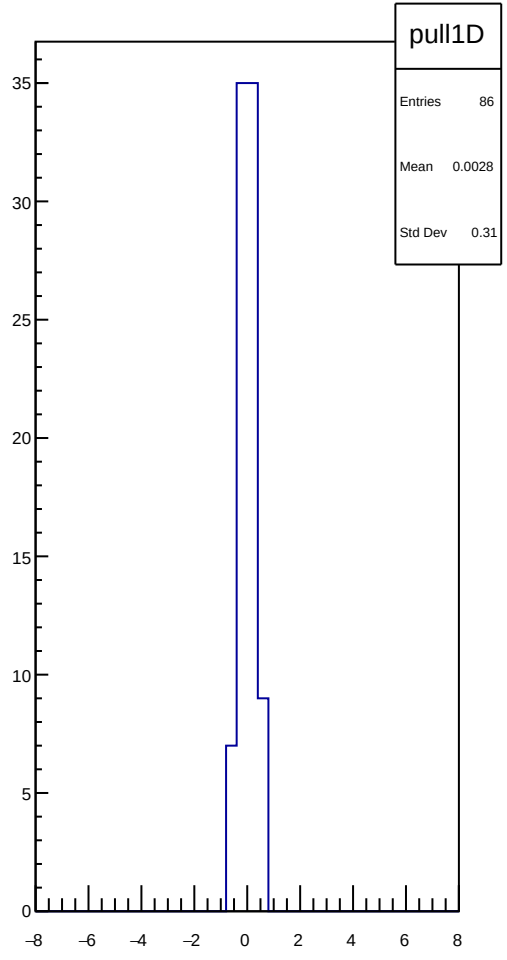

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 99.71 / 85
p0 −40.65 ± 0.08536
pull
Entries 86
Mean −354.3
Std Dev 0

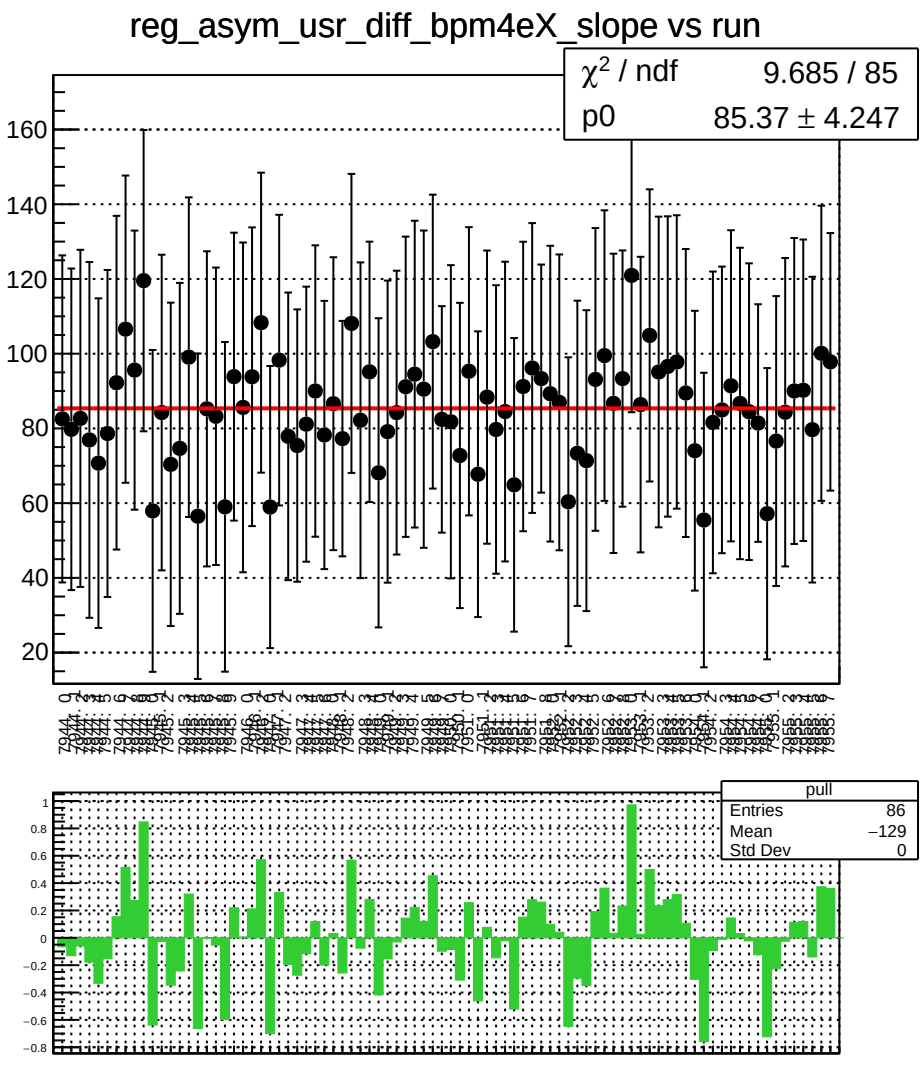

pull1D
Entries 86
Mean −0.02941
Std Dev 1.076

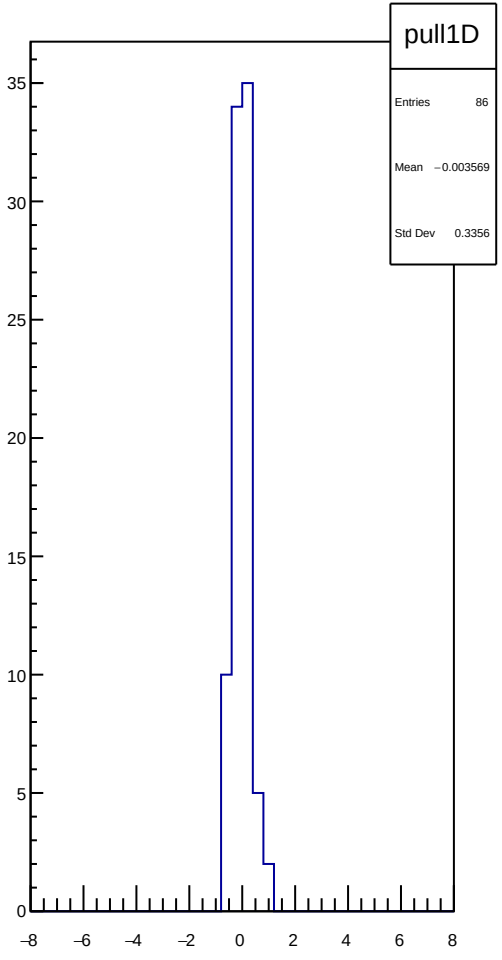

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 9.724 / 85
p0 −25.17 ± 4.783
pull
Entries 86
Mean −100.5
Std Dev 0

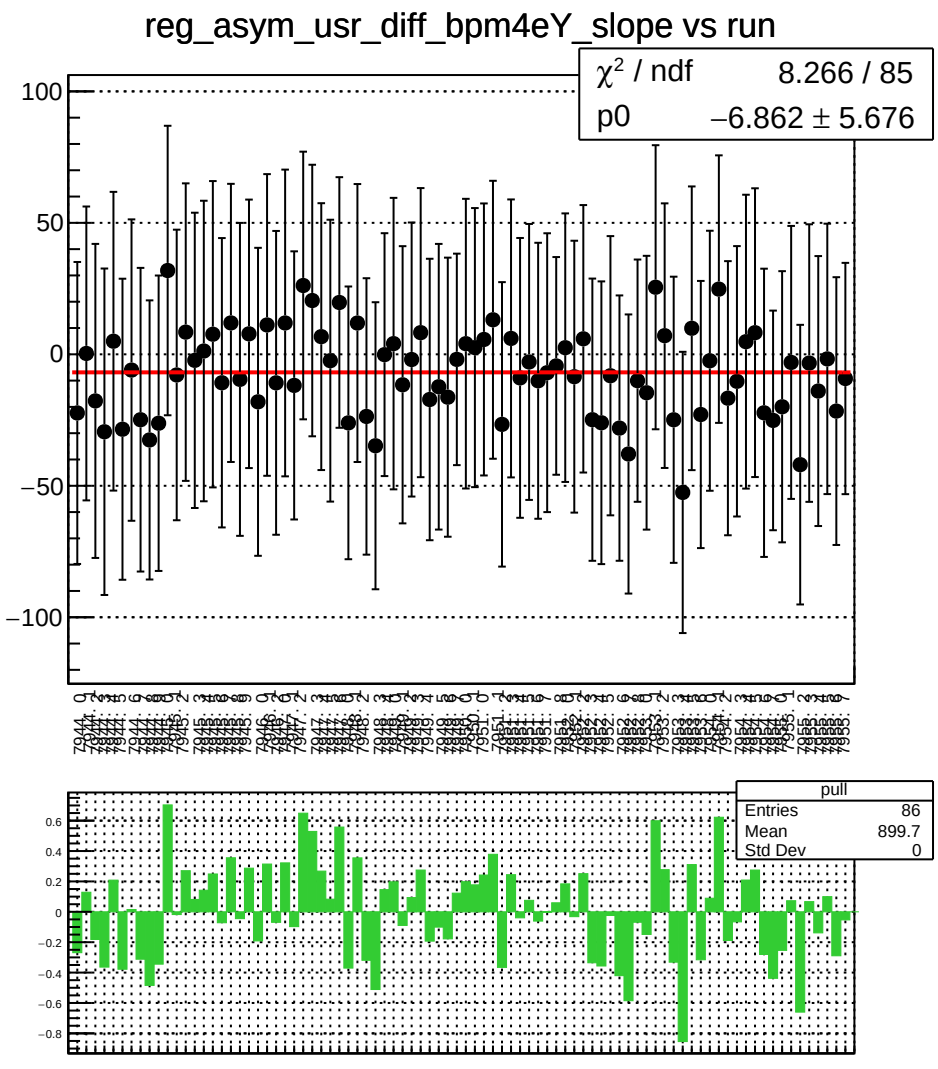

pull1D
Entries 86
Mean 0.004346
Std Dev 0.3362

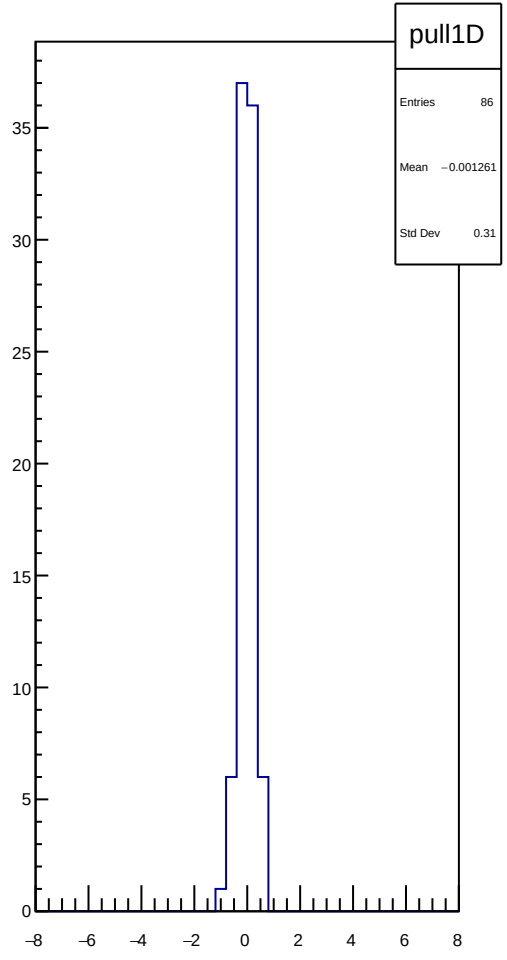

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 8.266 / 85
p0 23.29 ± 4.937
pull
Entries 86
Mean 216.9
Std Dev 0

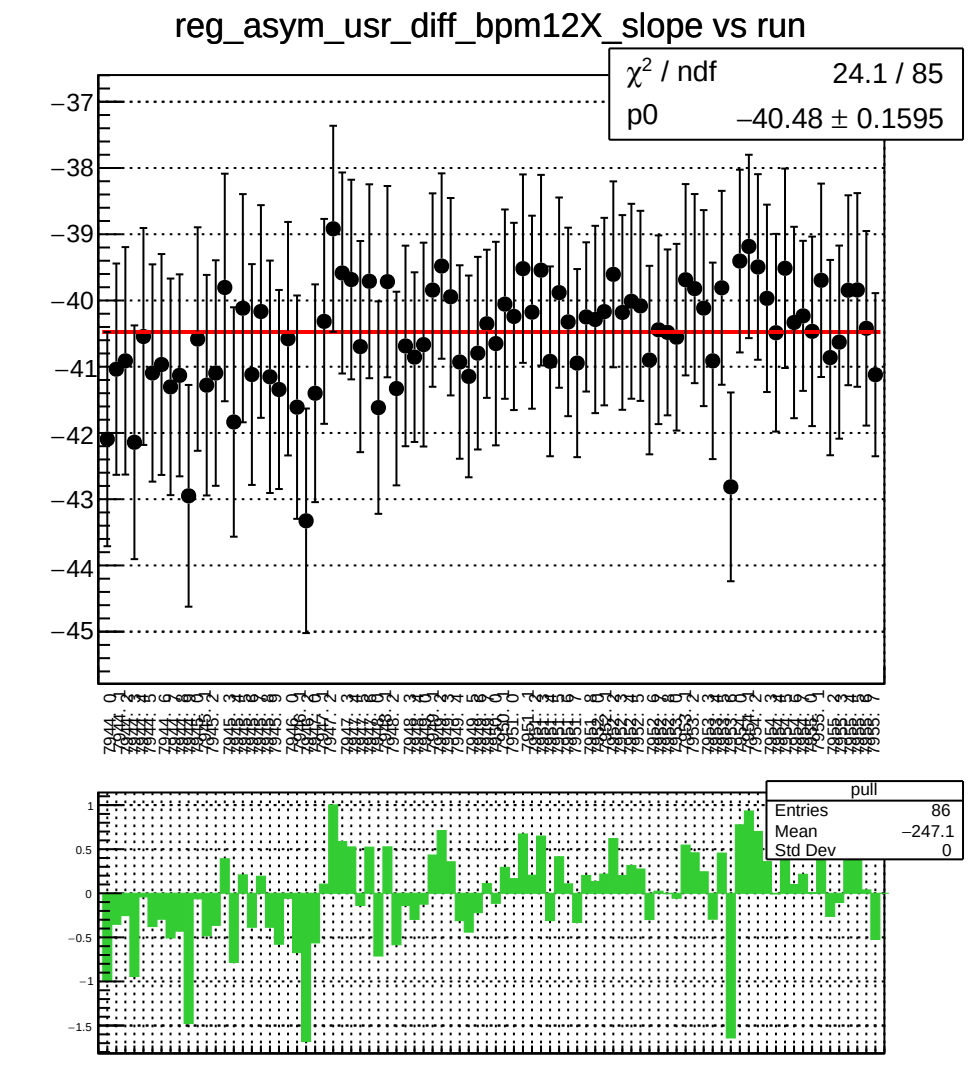

pull1D
Entries 86
Mean 0.0028
Std Dev 0.31

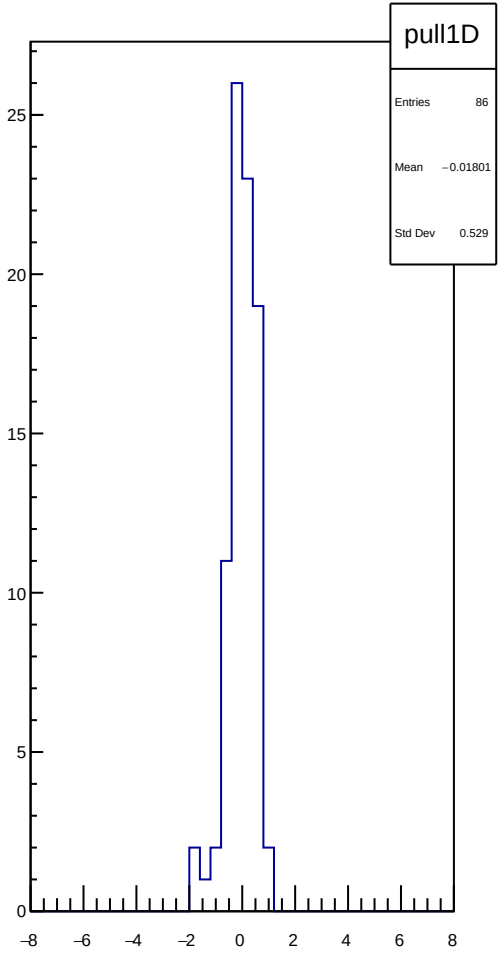

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 9.685 / 85
p0 85.37 ± 4.247
pull
Entries 86
Mean −129
Std Dev 0

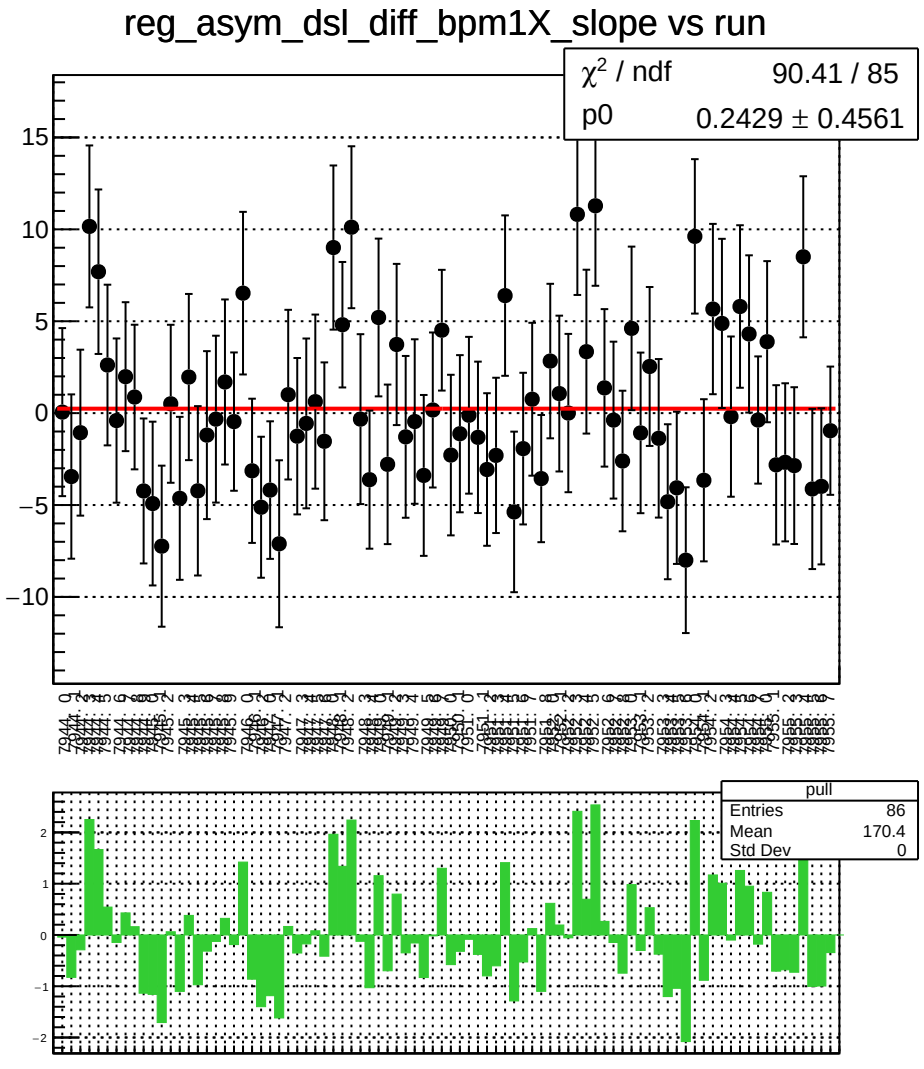

pull1D
Entries 86
Mean −0.003569
Std Dev 0.3356

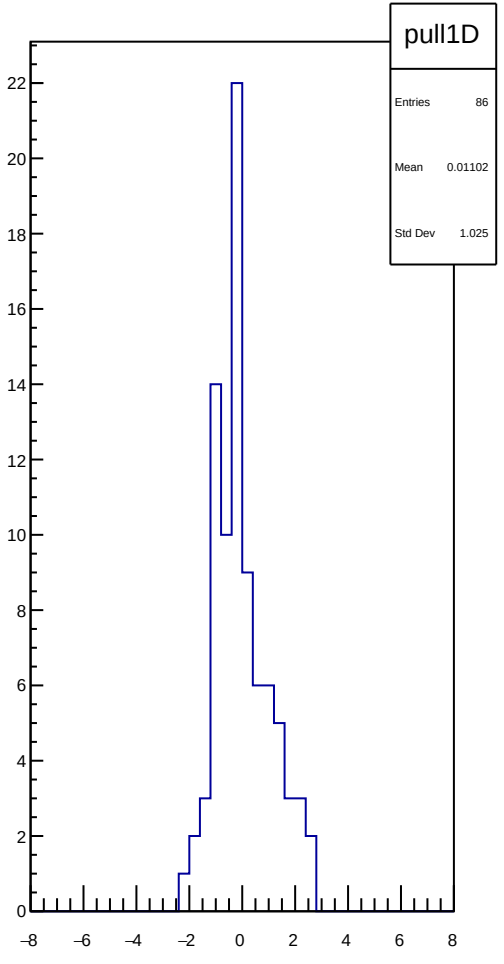

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 8.266 / 85
p0 −6.862 ± 5.676
100
50
0
−50
−100
pull
Entries 86
Mean 899.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

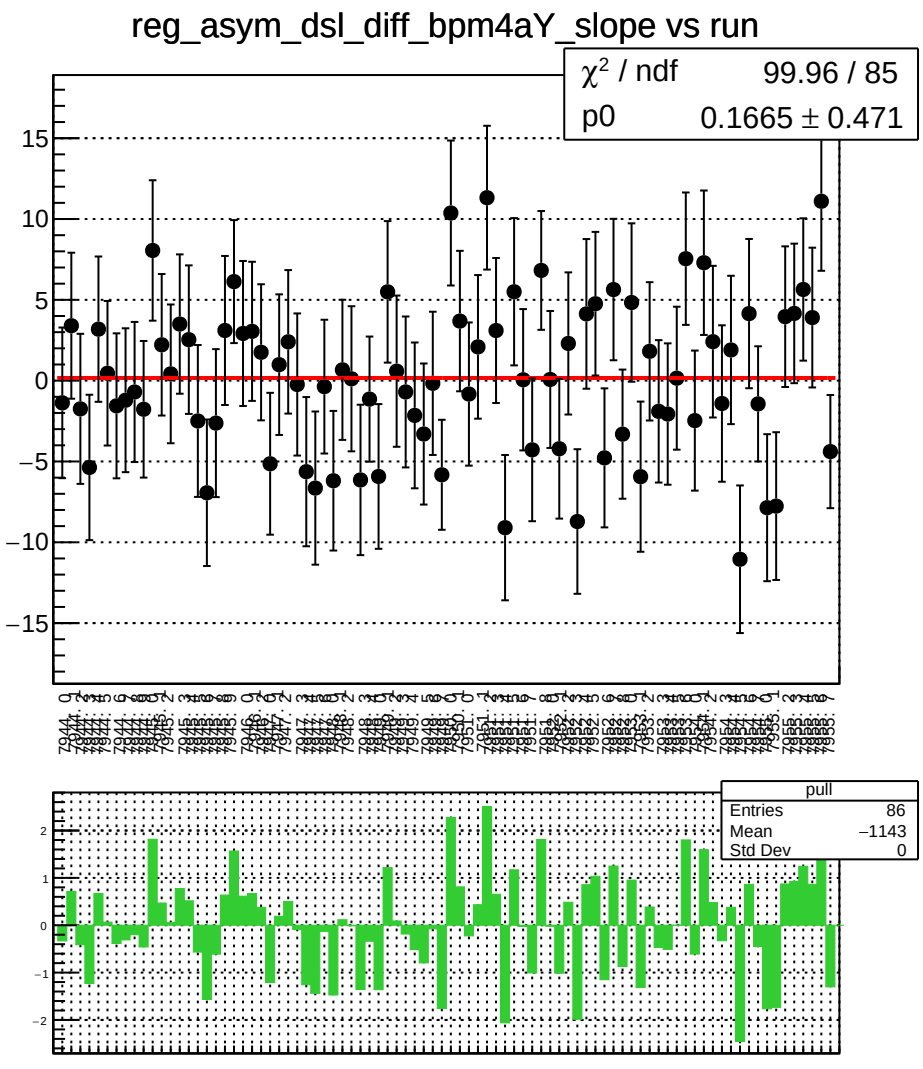

pull1D
Entries 86
Mean −0.001261
Std Dev 0.31
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

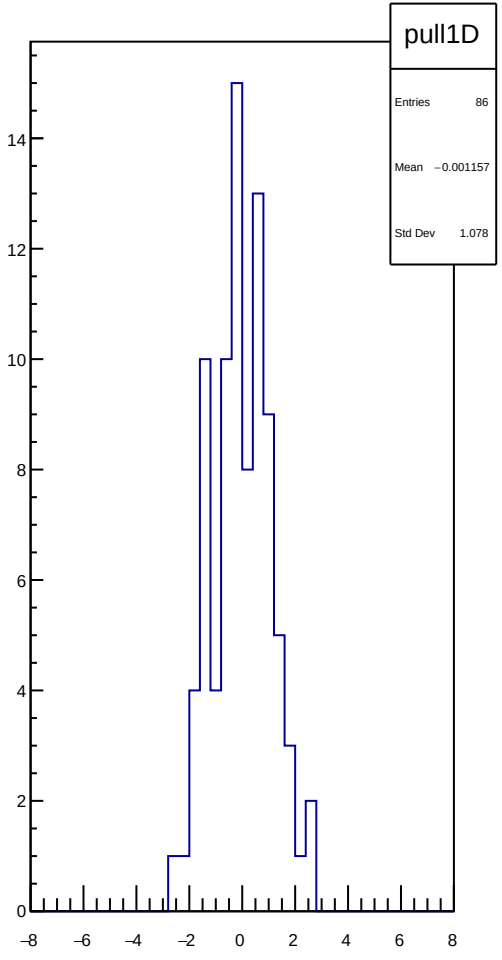

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 24.1 / 85
p0 −40.48 ± 0.1595
pull
Entries 86
Mean −247.1
Std Dev 0

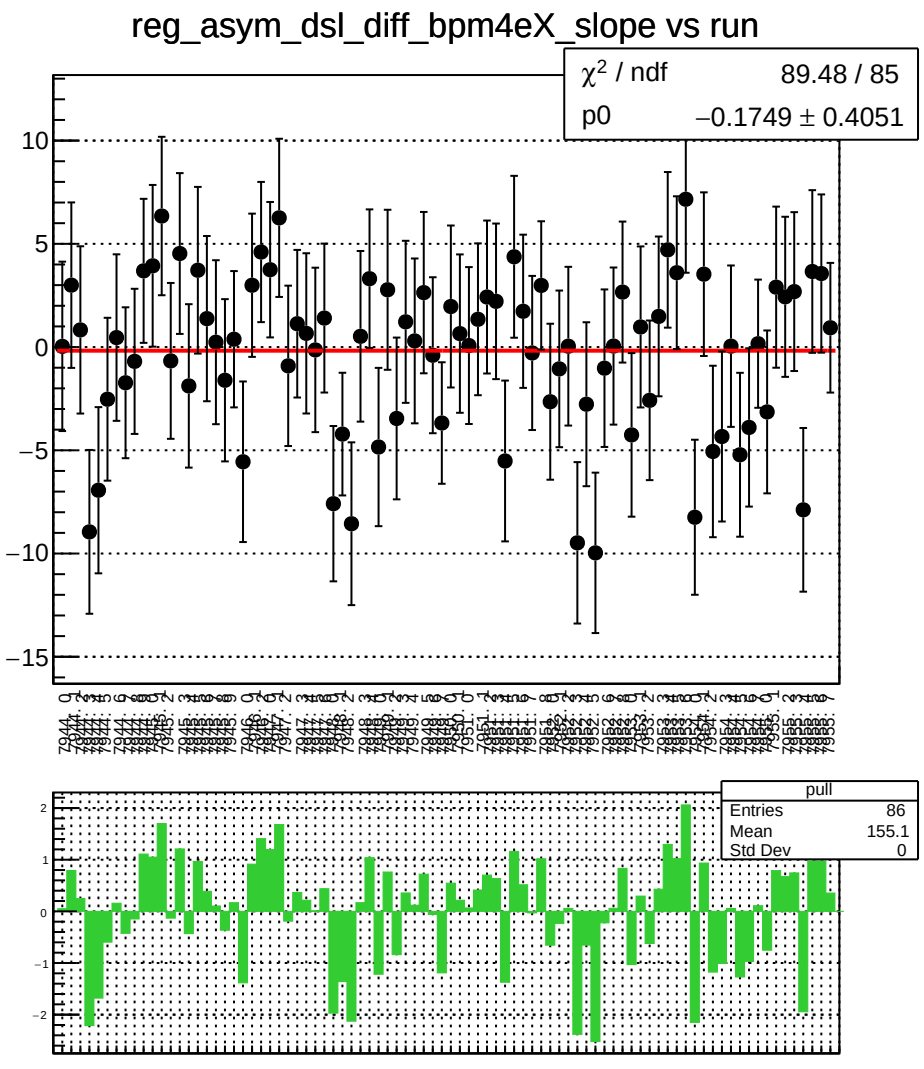

pull1D
Entries 86
Mean −0.01801
Std Dev 0.529

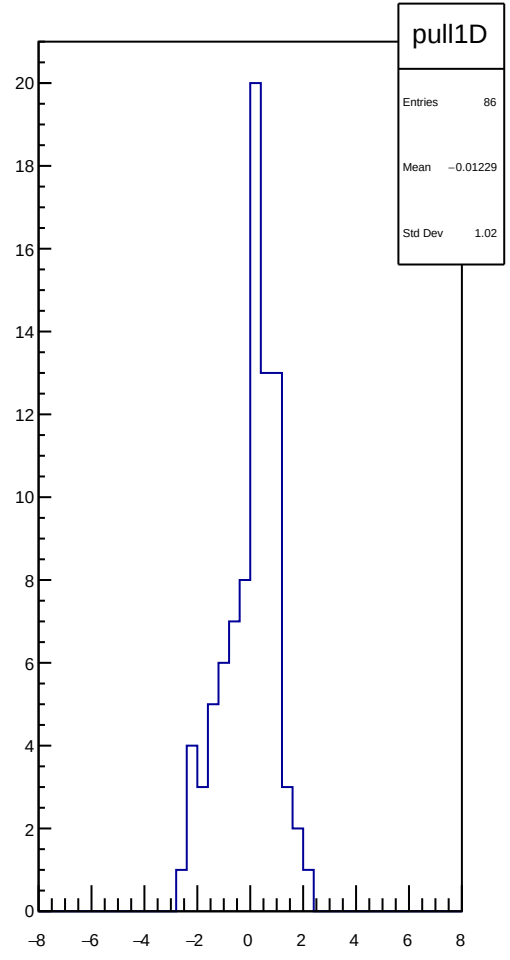

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 90.41 / 85
p0 0.2429 ± 0.4561
pull
Entries 86
Mean 170.4
Std Dev 0

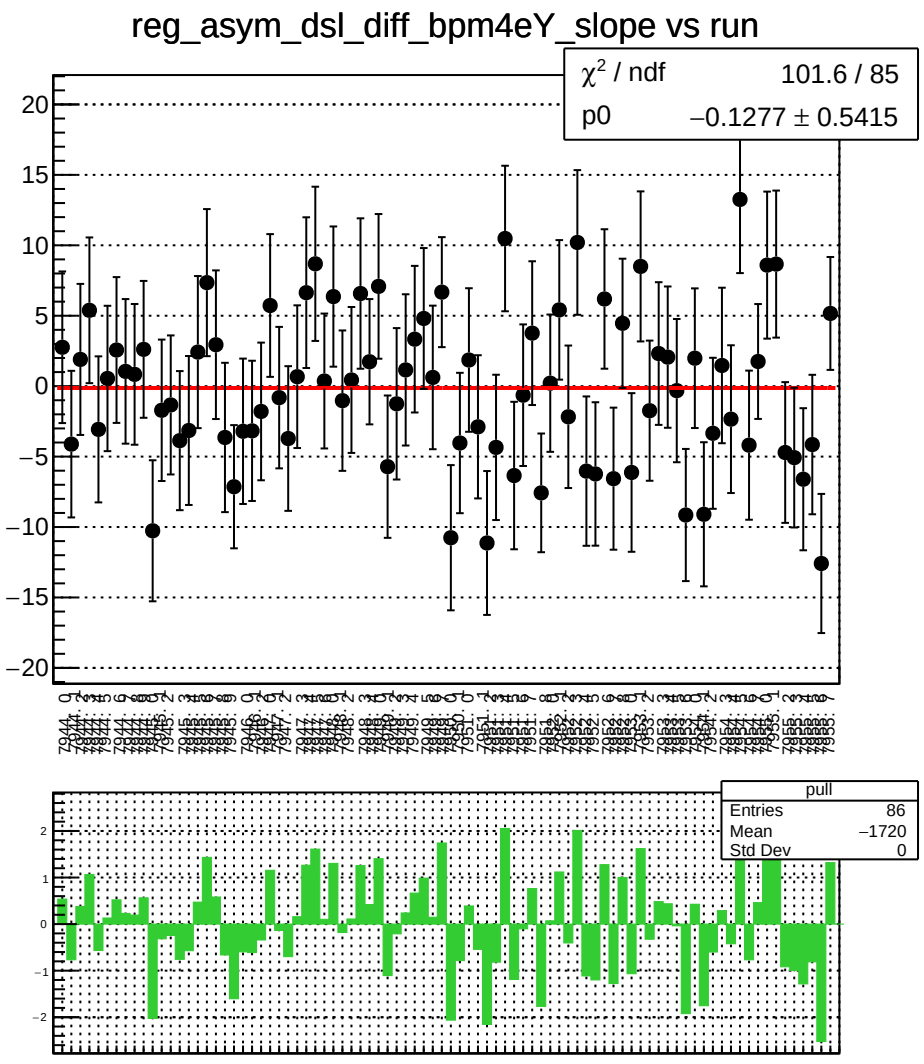

pull1D
Entries 86
Mean 0.01102
Std Dev 1.025

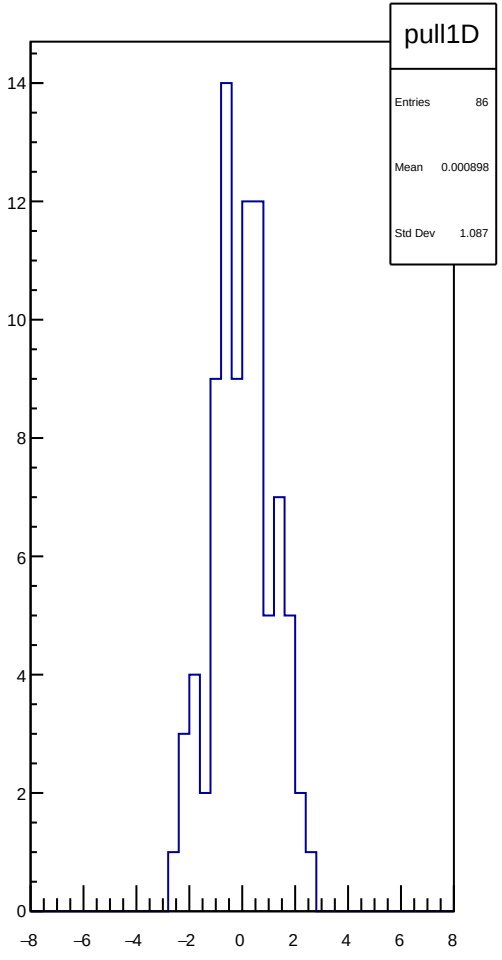

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 99.96 / 85
p0 0.1665 ± 0.471
pull
Entries 86
Mean −1143
Std Dev 0

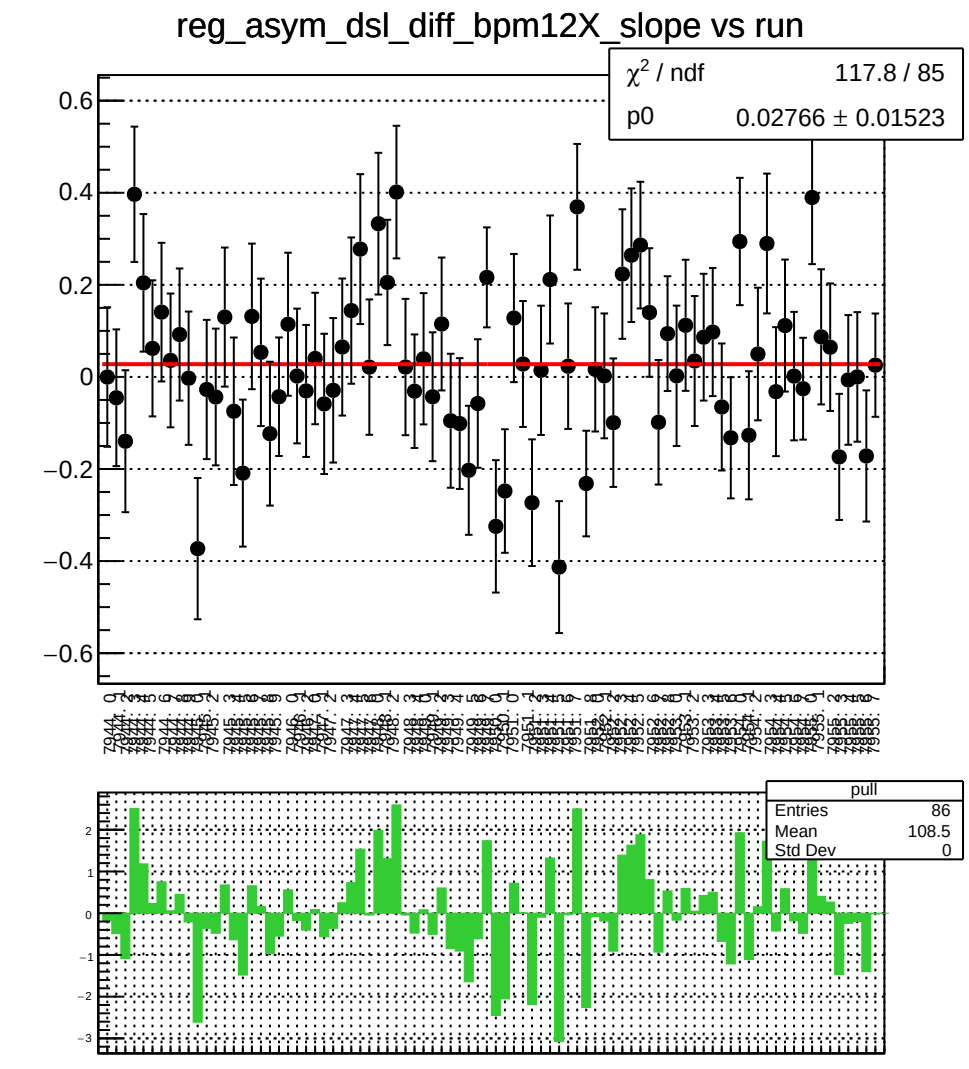

pull1D
Entries 86
Mean −0.001157
Std Dev 1.078

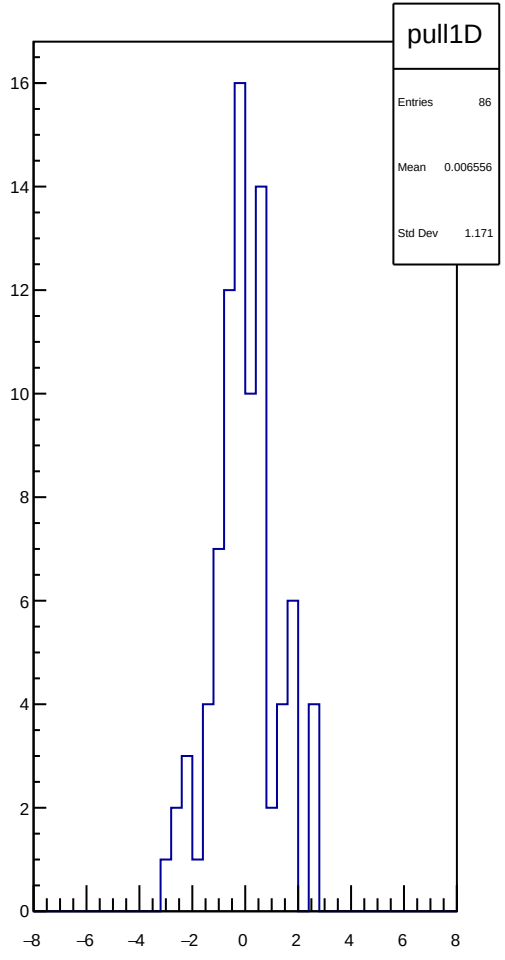

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 89.48 / 85
p0 −0.1749 ± 0.4051
pull
Entries 86
Mean 155.1
Std Dev 0

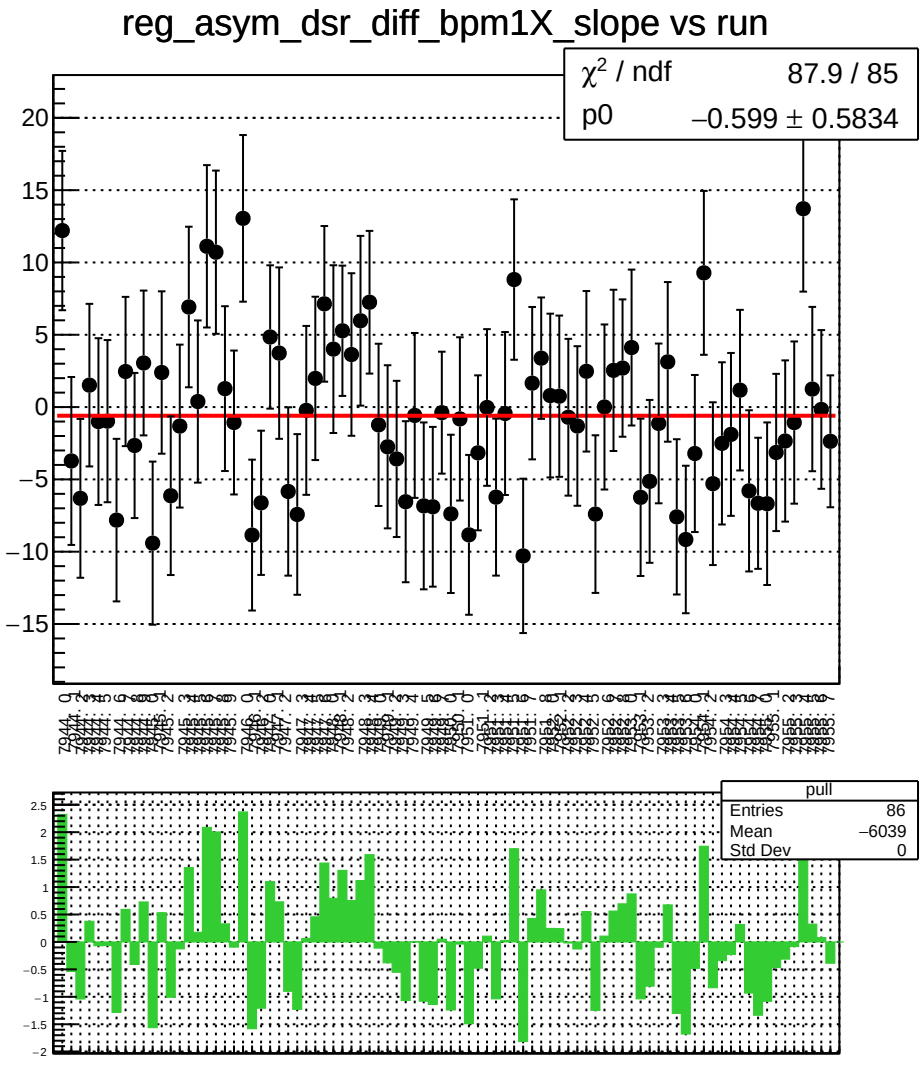

pull1D
Entries 86
Mean −0.01229
Std Dev 1.02

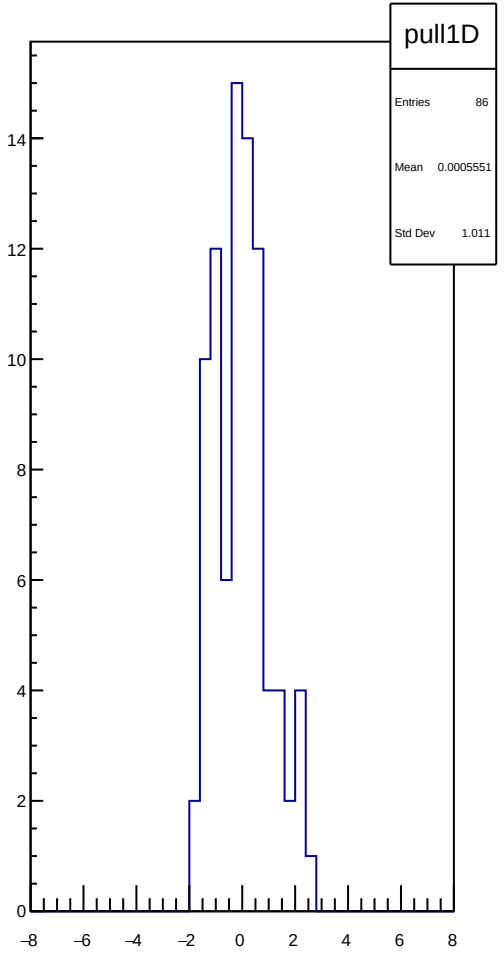

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 101.6 / 85
p0 −0.1277 ± 0.5415
pull
Entries 86
Mean −1720
Std Dev 0

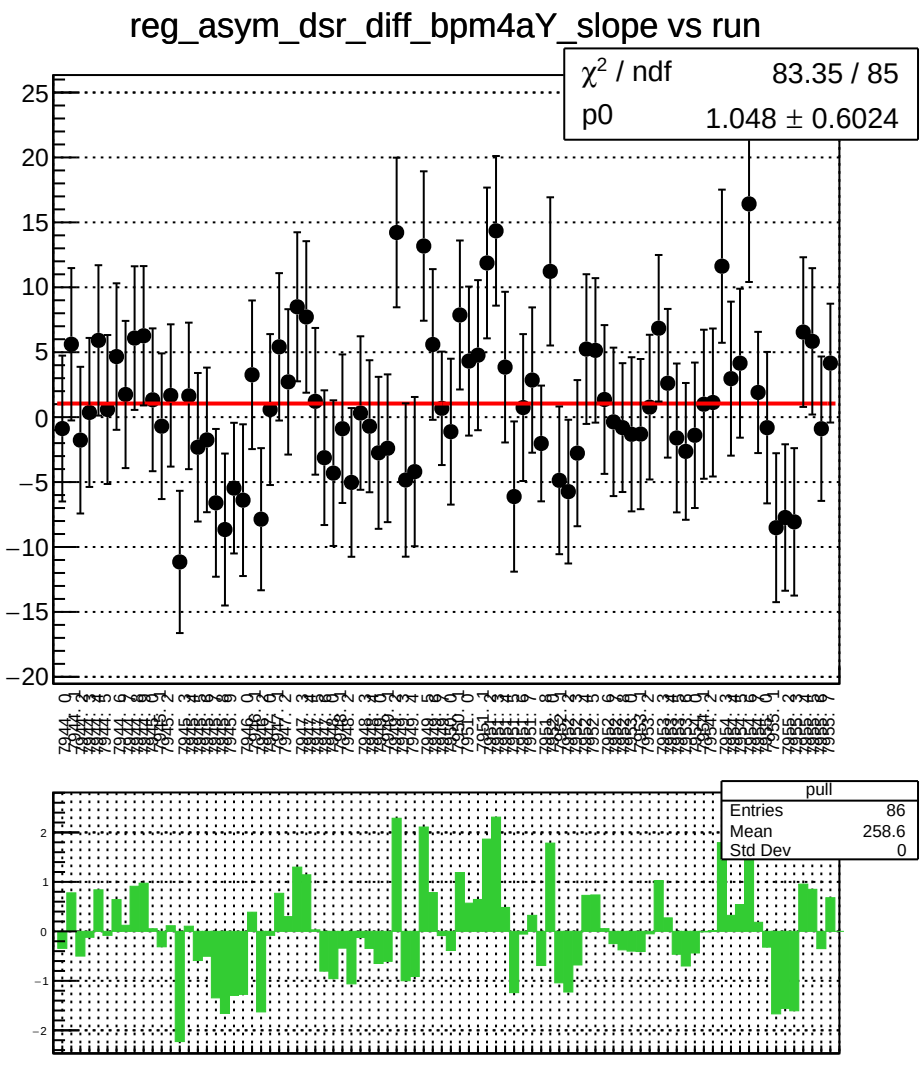

pull1D
Entries 86
Mean 0.000898
Std Dev 1.087

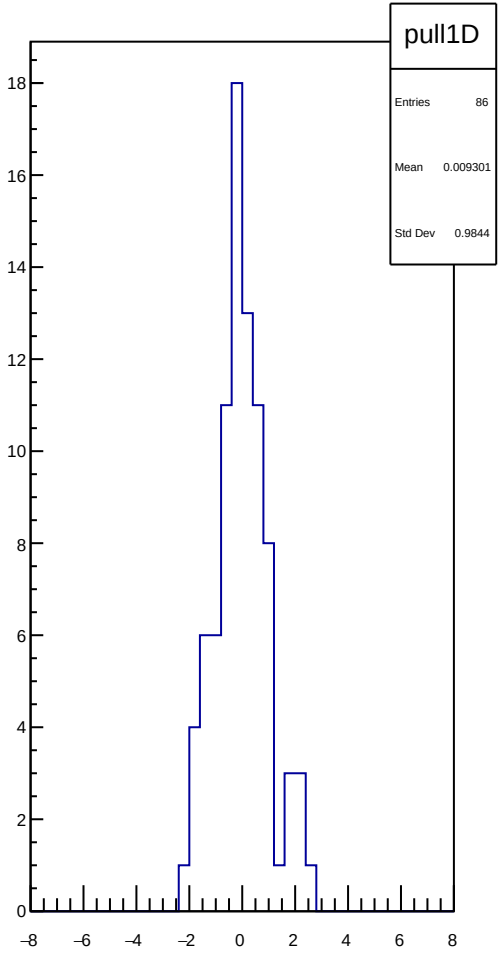

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 117.8 / 85
p0 0.02766 ± 0.01523
pull
Entries 86
Mean 108.5
Std Dev 0

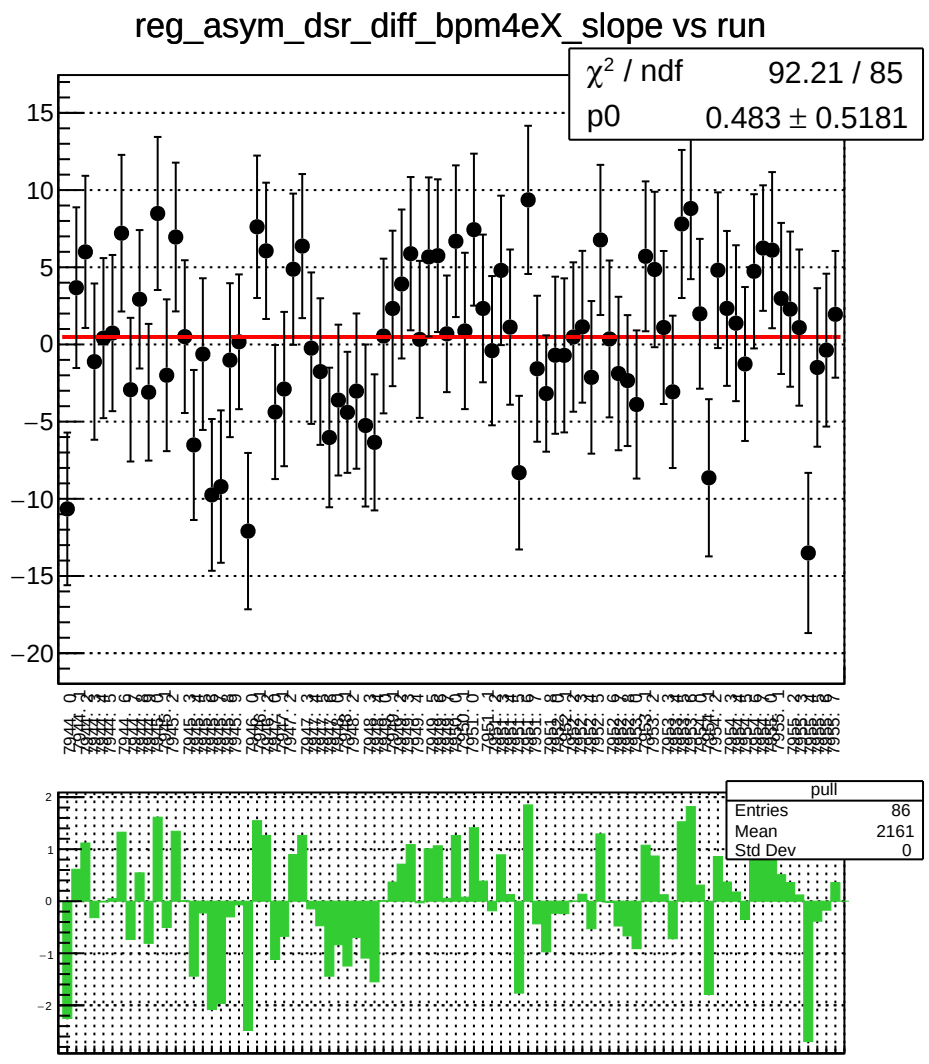

pull1D
Entries 86
Mean 0.006556
Std Dev 1.171

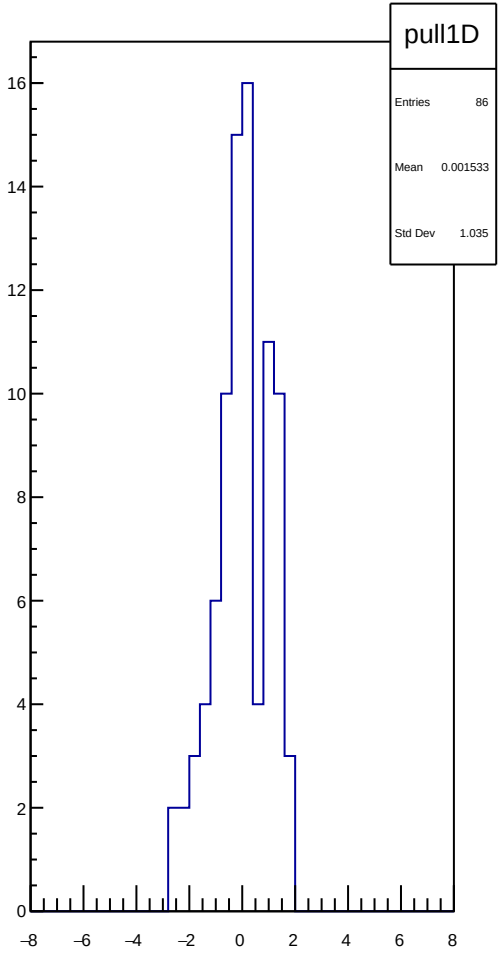

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 87.9 / 85
p0 −0.599 ± 0.5834
pull
Entries 86
Mean −6039
Std Dev 0

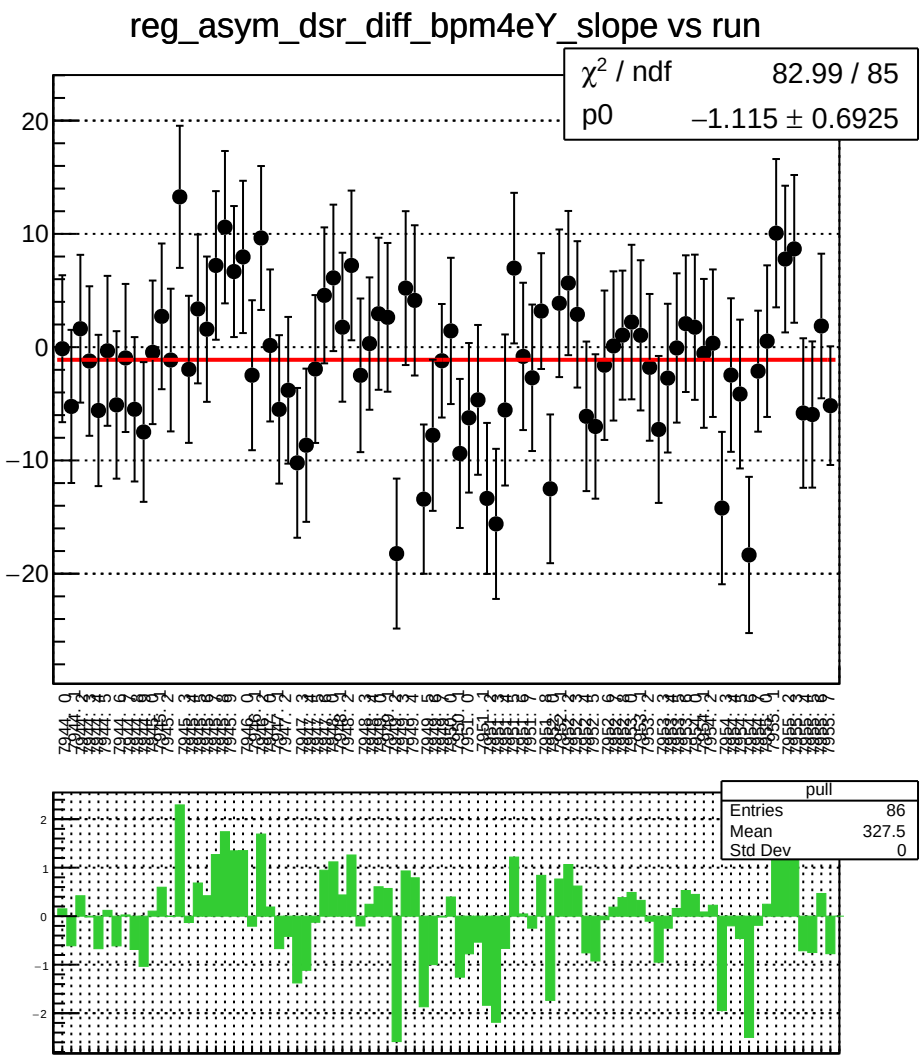

pull1D
Entries 86
Mean 0.0005551
Std Dev 1.011

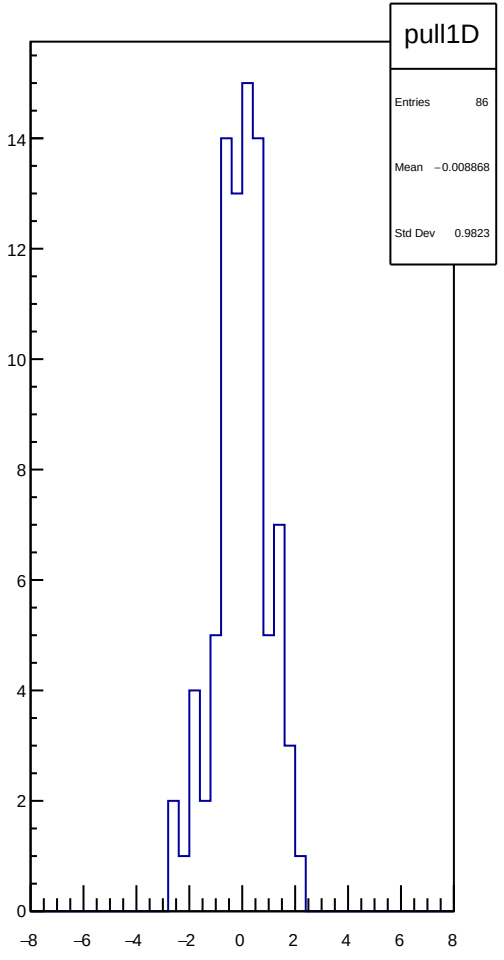

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 83.35 / 85
p0 1.048 ± 0.6024
pull
Entries 86
Mean 258.6
Std Dev 0

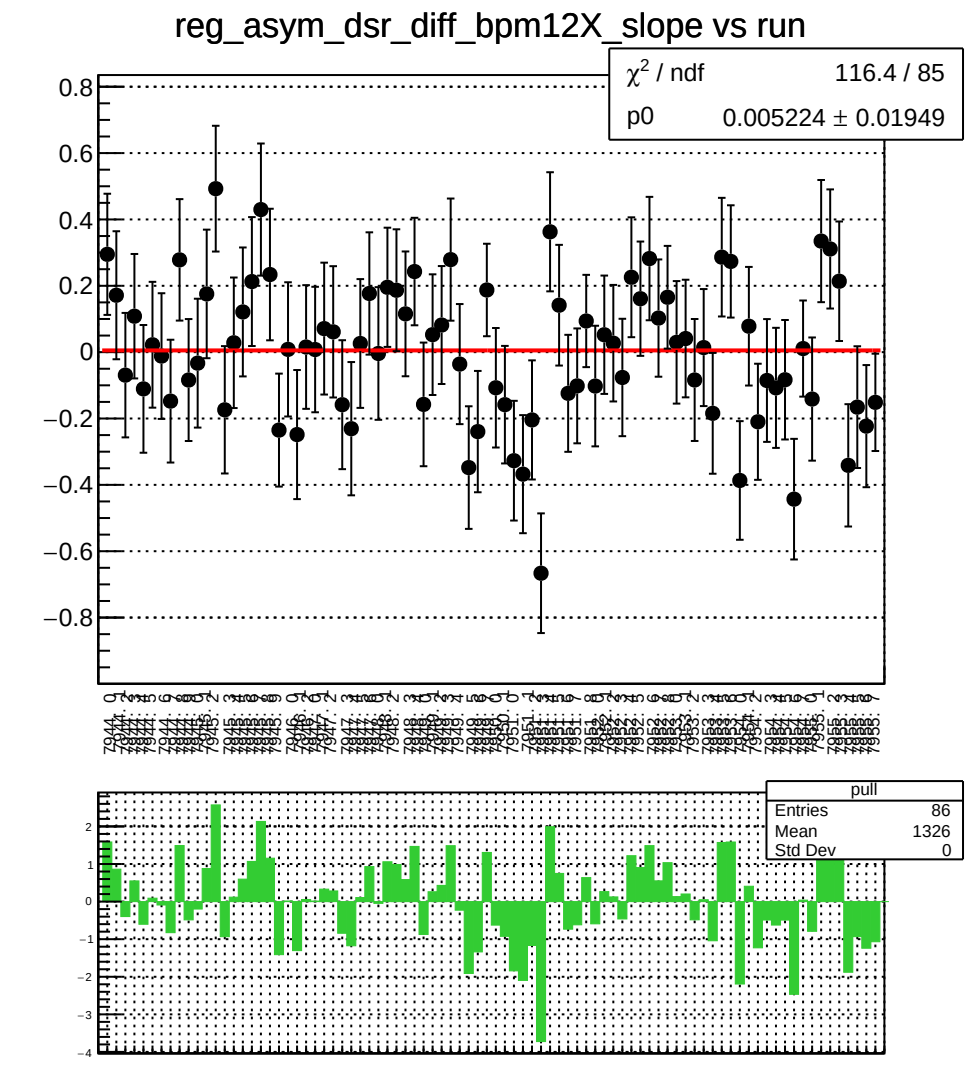

pull1D
Entries 86
Mean 0.009301
Std Dev 0.9844

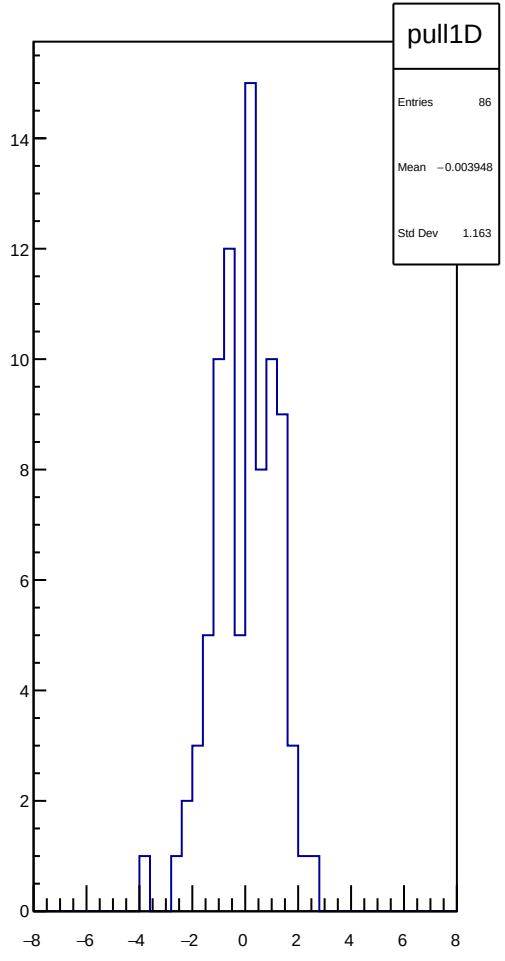

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 92.21 / 85
p0 0.483 ± 0.5181
pull
Entries 86
Mean 2161
Std Dev 0

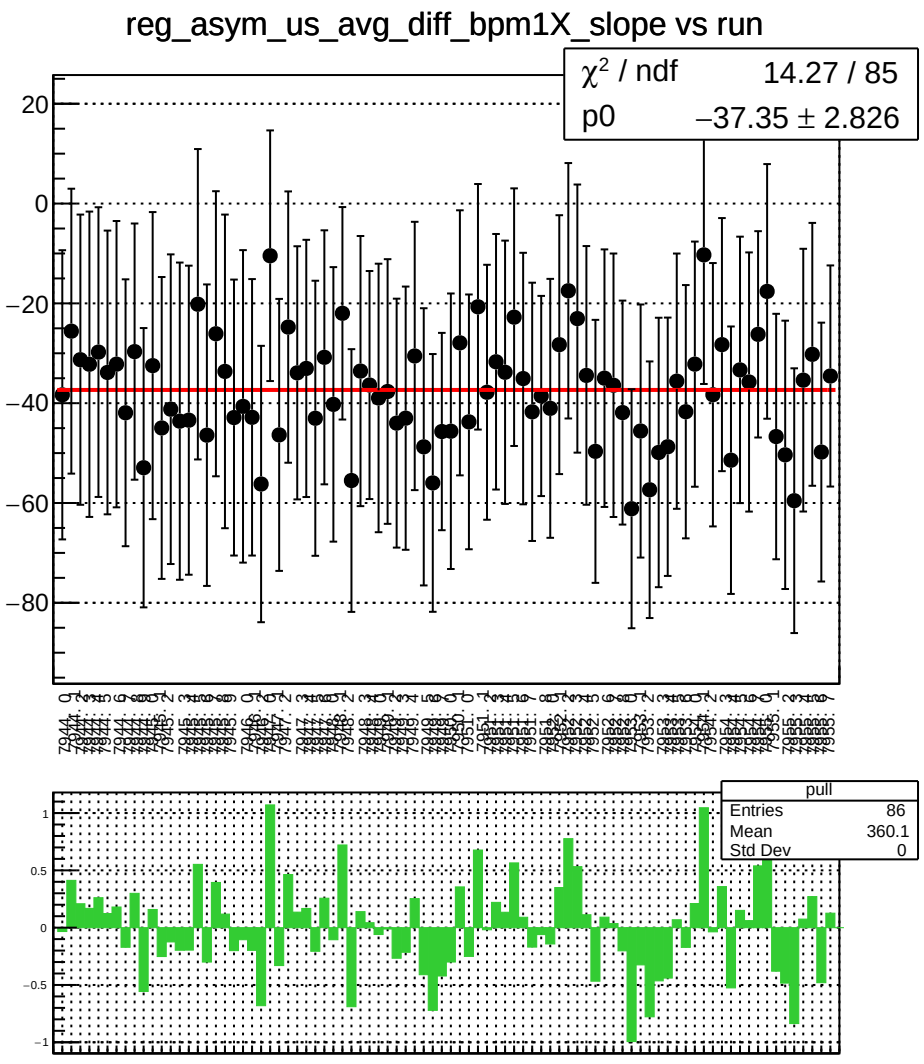

pull1D
Entries 86
Mean 0.001533
Std Dev 1.035

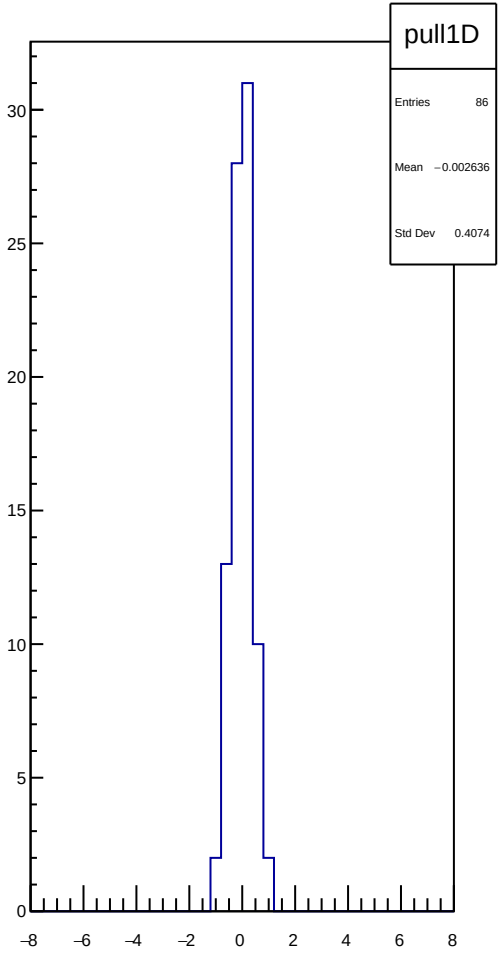

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 82.99 / 85
p0 −1.115 ± 0.6925
pull
Entries 86
Mean 327.5
Std Dev 0

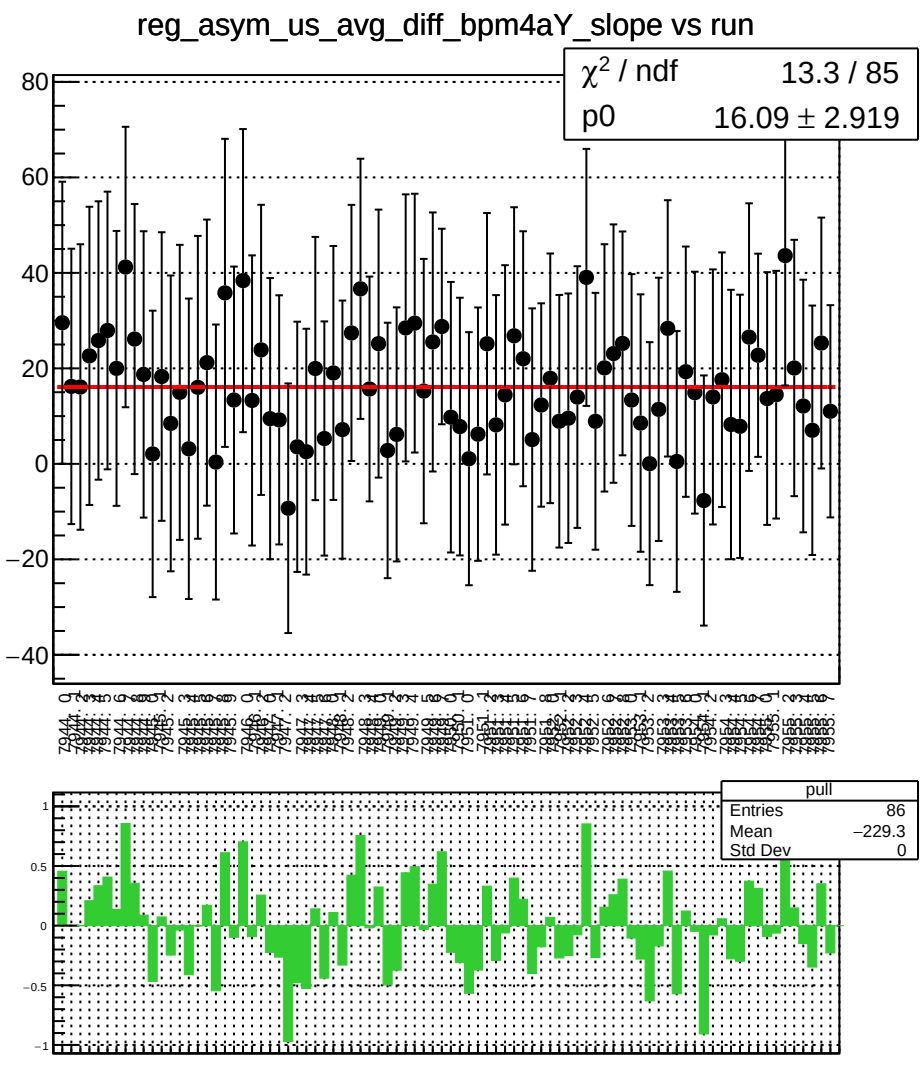

pull1D
Entries 86
Mean −0.008868
Std Dev 0.9823

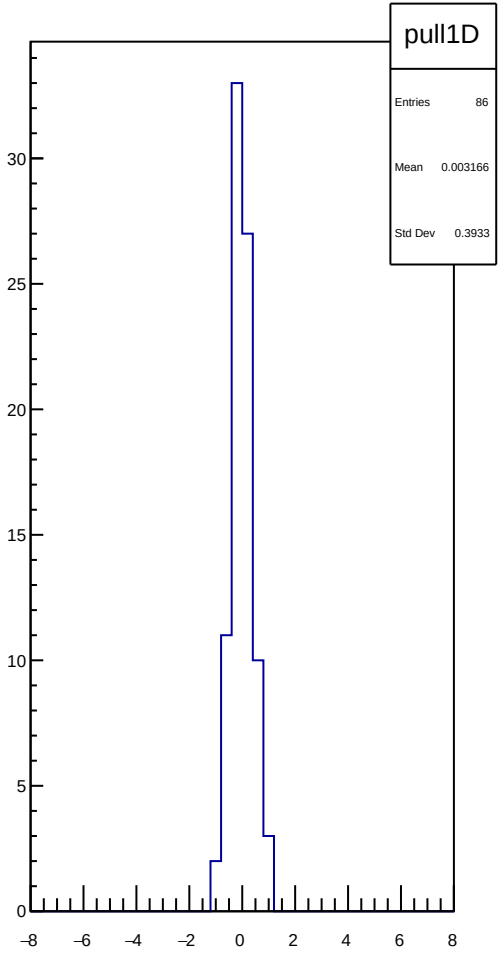

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 116.4 / 85
p0 0.005224 ± 0.01949
pull
Entries 86
Mean 1326
Std Dev 0

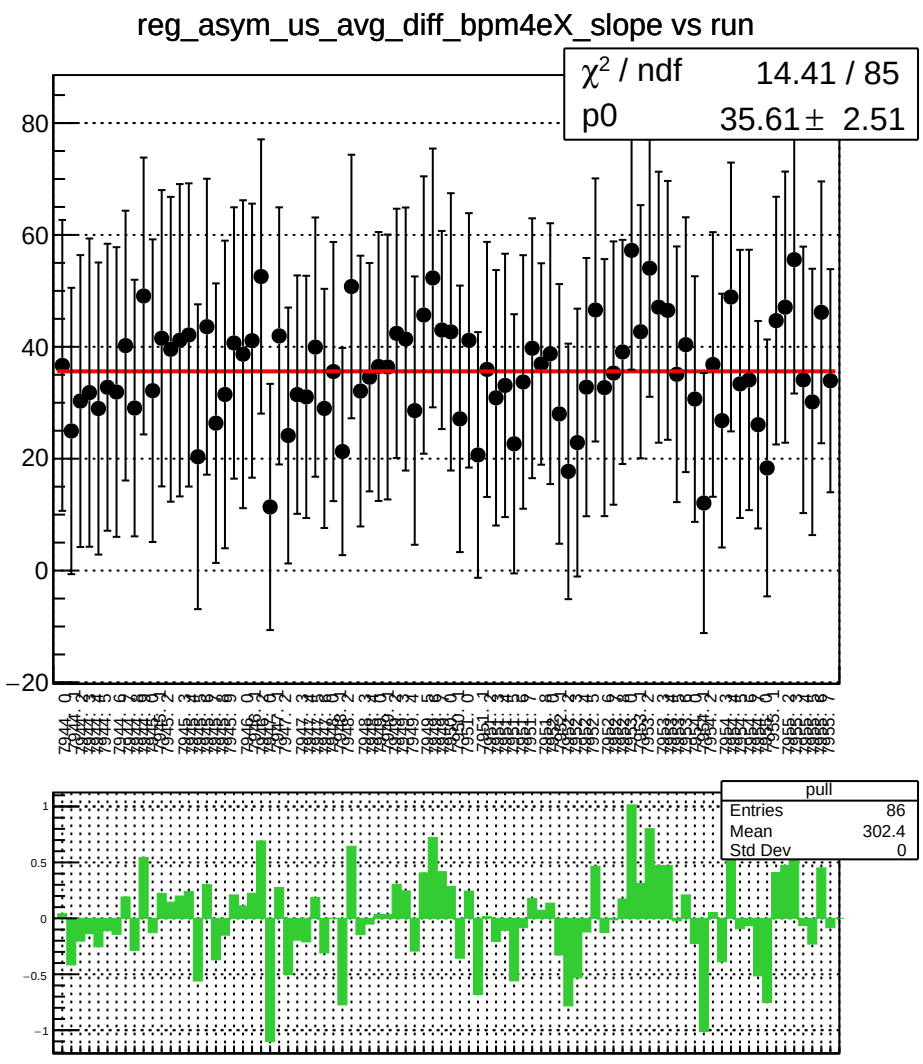

pull1D
Entries 86
Mean −0.003948
Std Dev 1.163

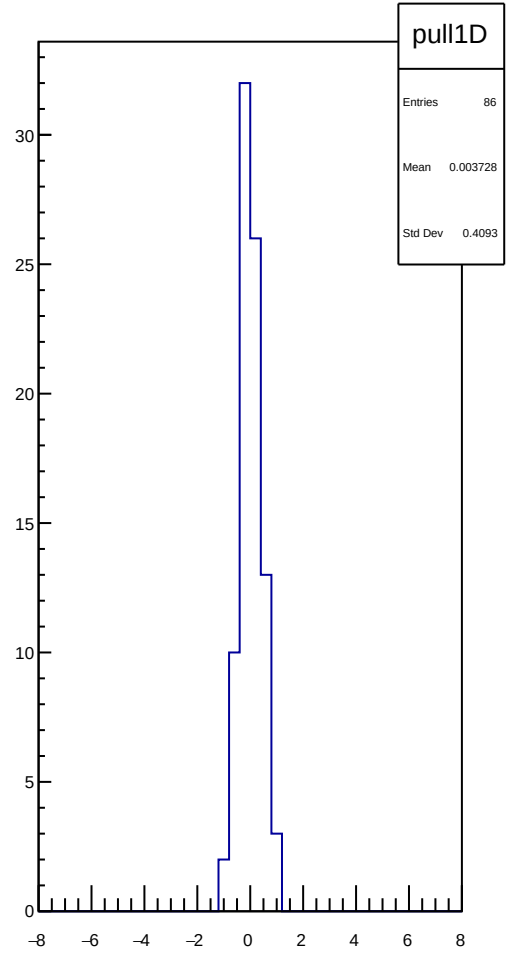

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 14.27 / 85
p0 −37.35 ± 2.826
pull
Entries 86
Mean 360.1
Std Dev 0

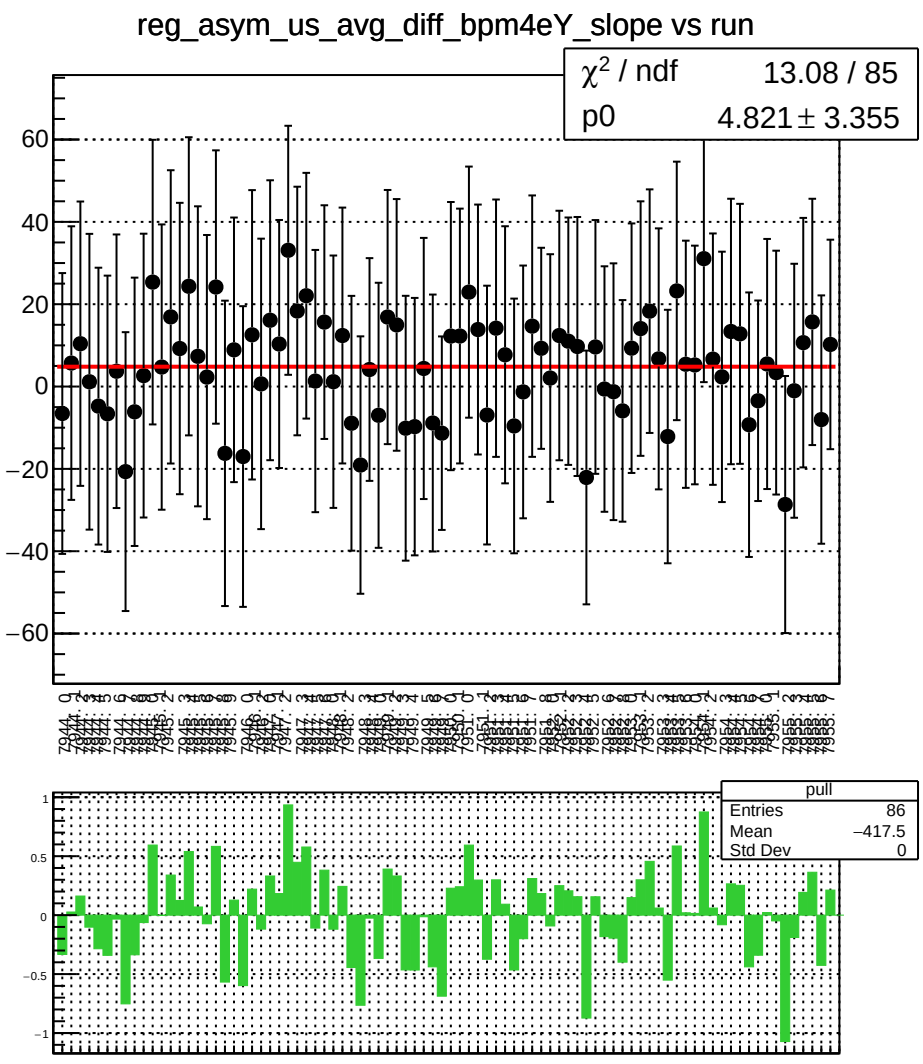

pull1D
Entries 86
Mean −0.002636
Std Dev 0.4074

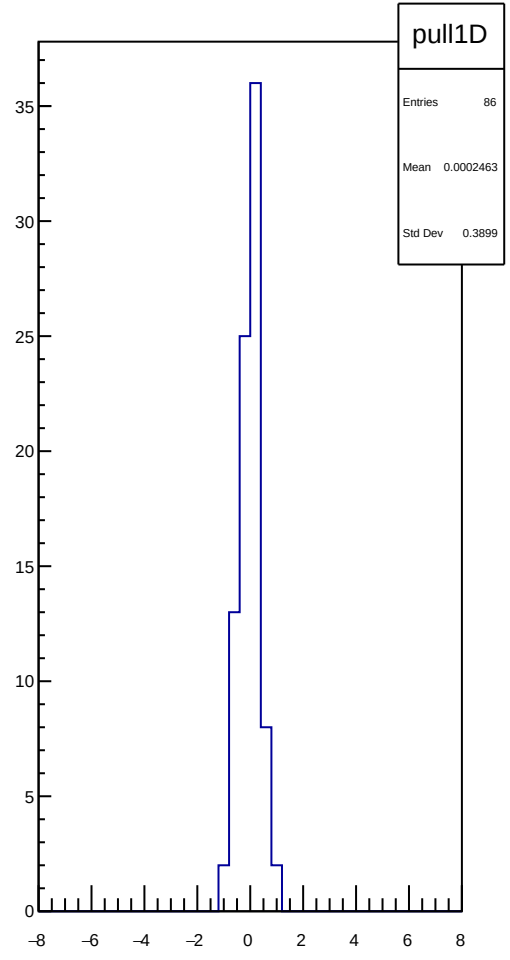

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.3 / 85
p0 16.09 ± 2.919
pull
Entries 86
Mean −229.3
Std Dev 0

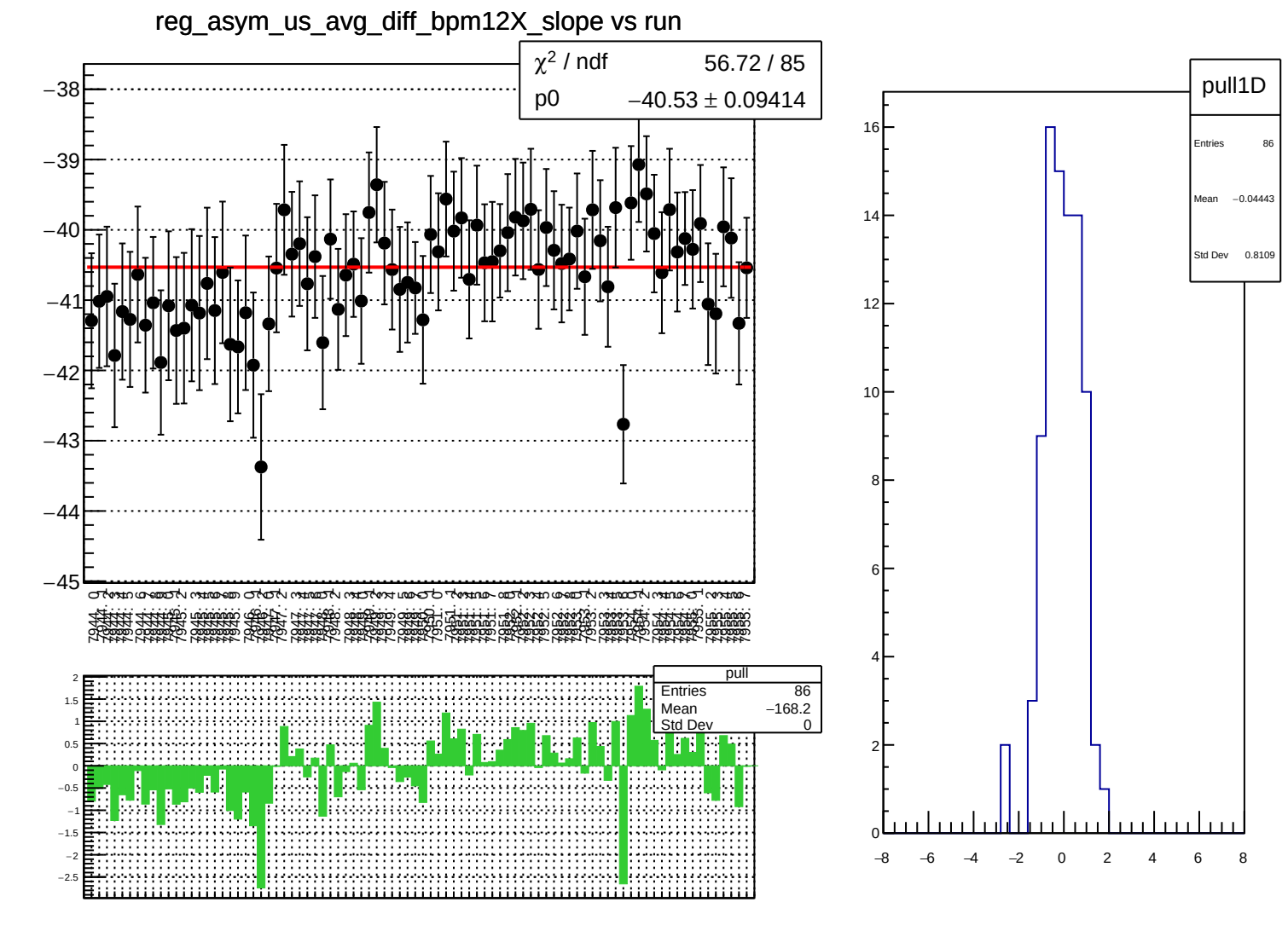

pull1D
Entries 86
Mean 0.003166
Std Dev 0.3933

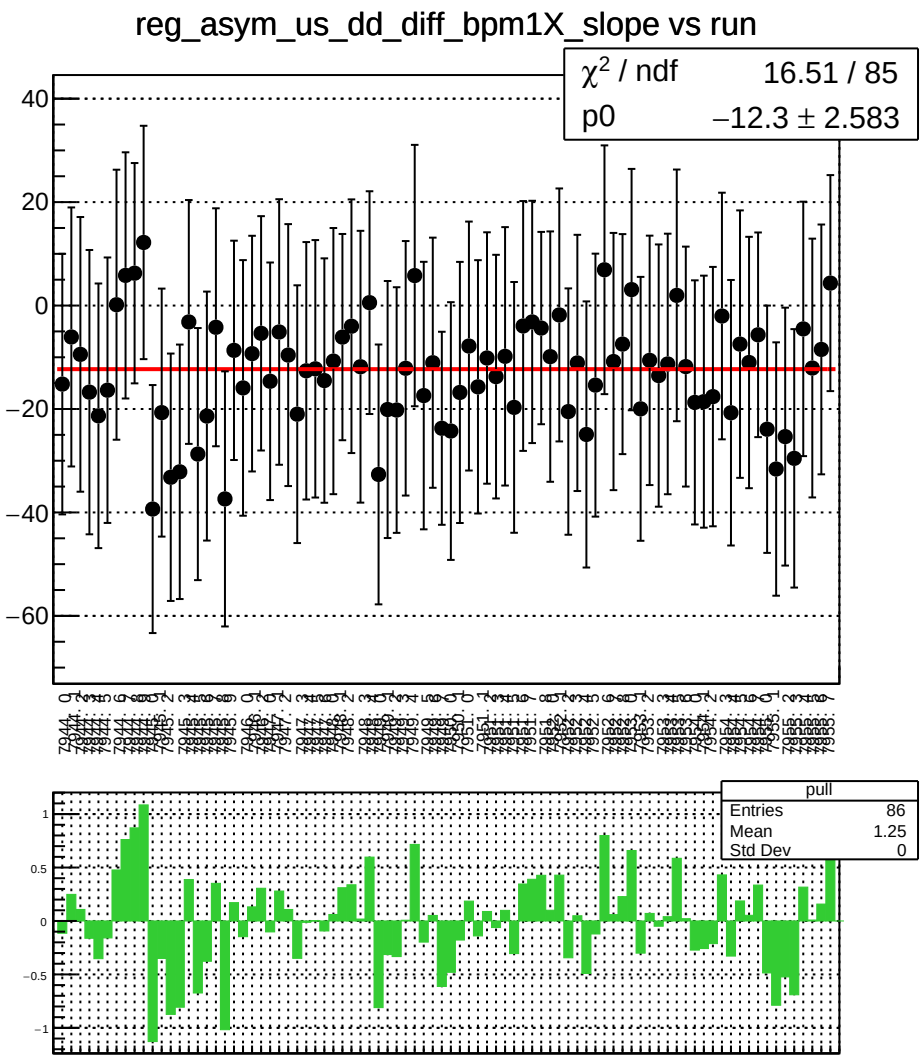

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.41 / 85
p0 35.61 ± 2.51
pull
Entries 86
Mean 302.4
Std Dev 0

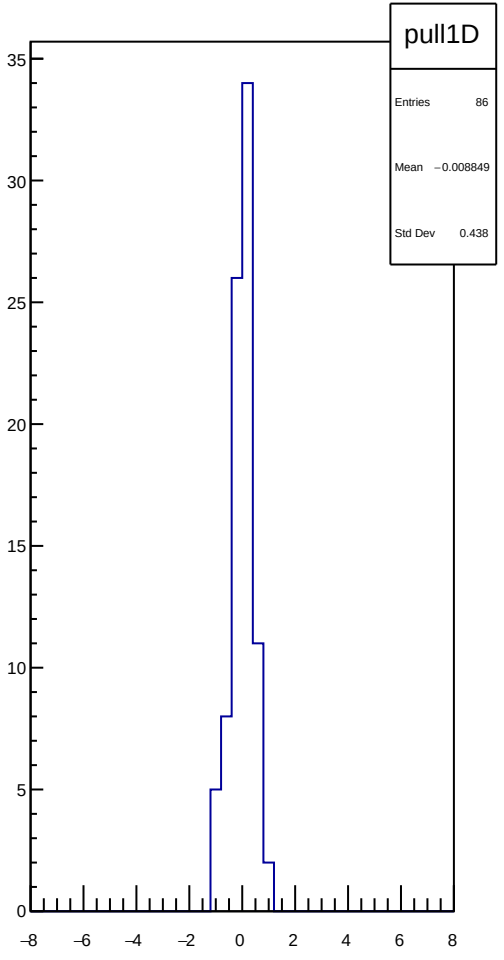

pull1D
Entries 86
Mean 0.003728
Std Dev 0.4093

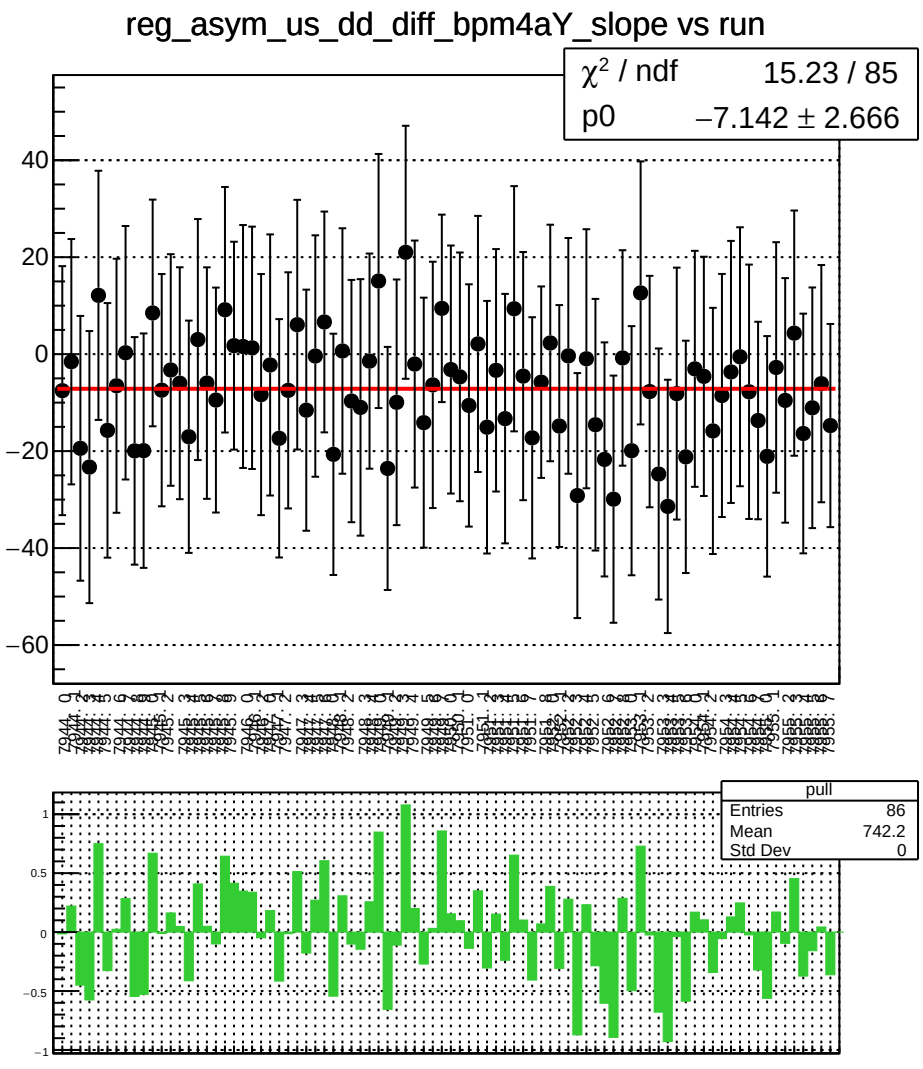

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.08 / 85
p0 4.821 ± 3.355
pull
Entries 86
Mean −417.5
Std Dev 0

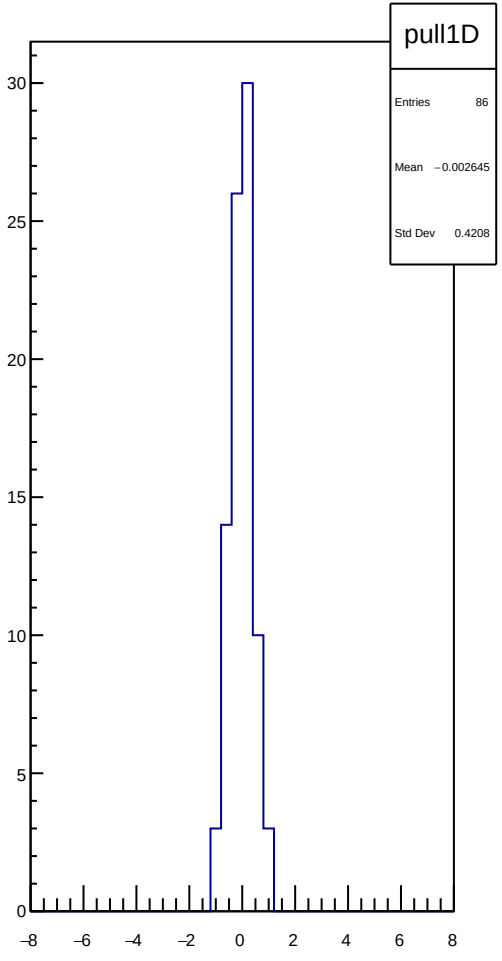

pull1D
Entries 86
Mean 0.0002463
Std Dev 0.3899

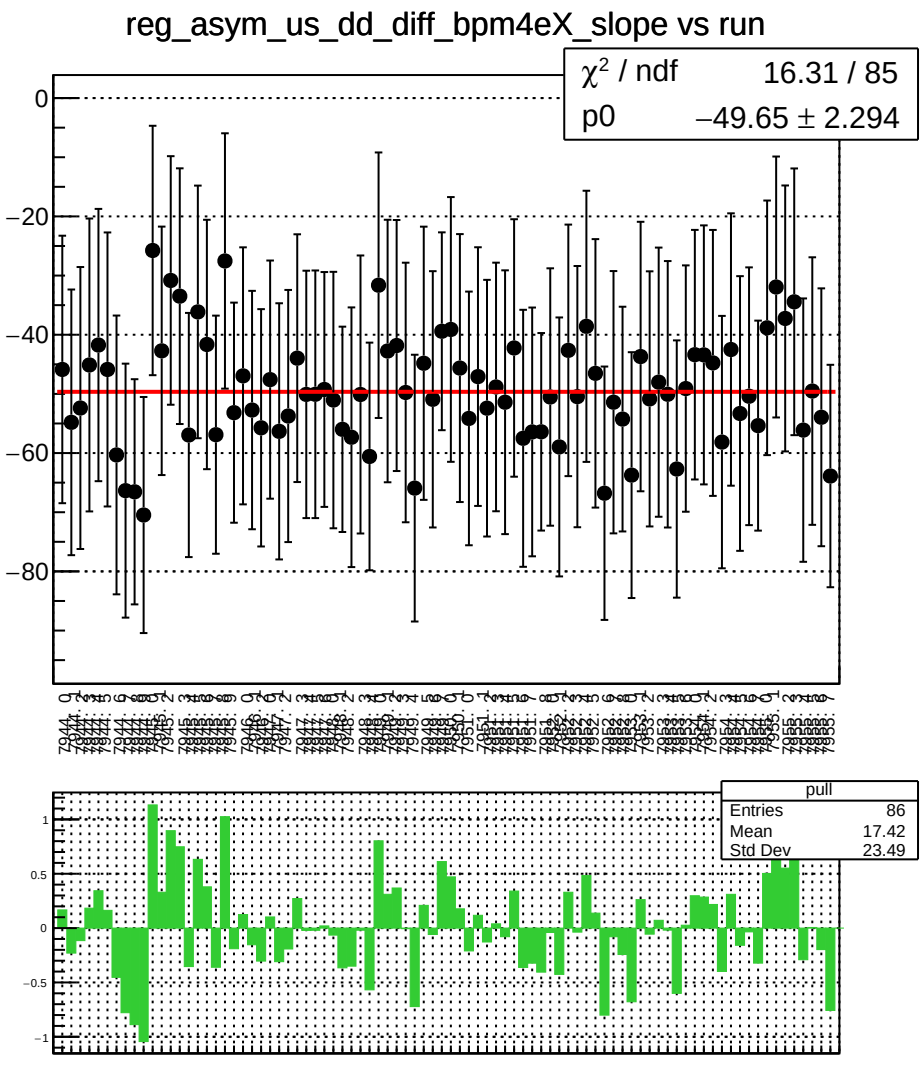

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 56.72 / 85
p0 −40.53 ± 0.09414
pull
Entries 86
Mean −168.2
Std Dev 0
pull1D
Entries 86
Mean −0.04443
Std Dev 0.8109

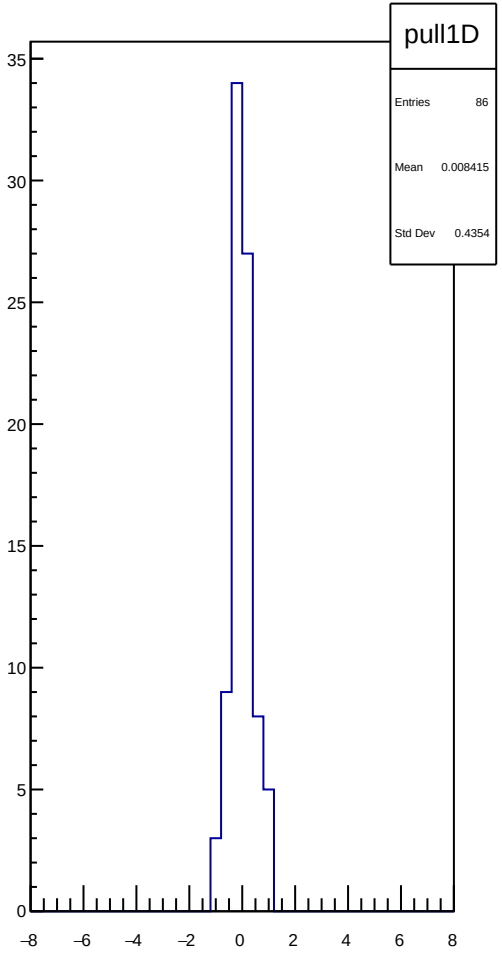

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 16.51 / 85
p0 −12.3 ± 2.583
pull
Entries 86
Mean 1.25
Std Dev 0

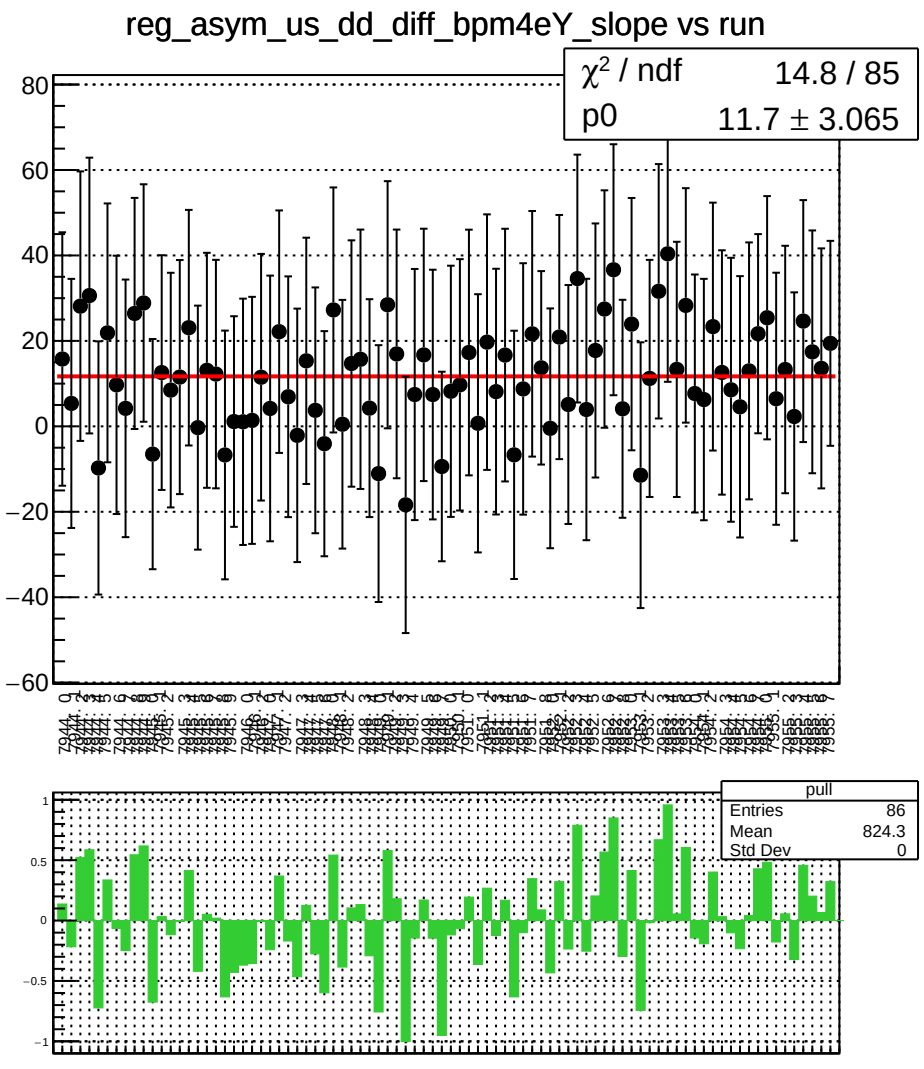

pull1D
Entries 86
Mean −0.008849
Std Dev 0.438

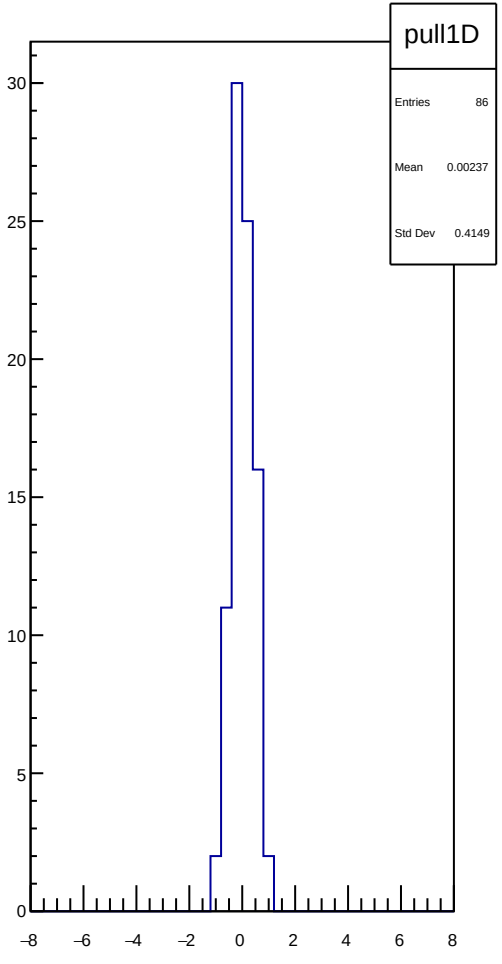

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.23 / 85
p0 −7.142 ± 2.666
pull
Entries 86
Mean 742.2
Std Dev 0

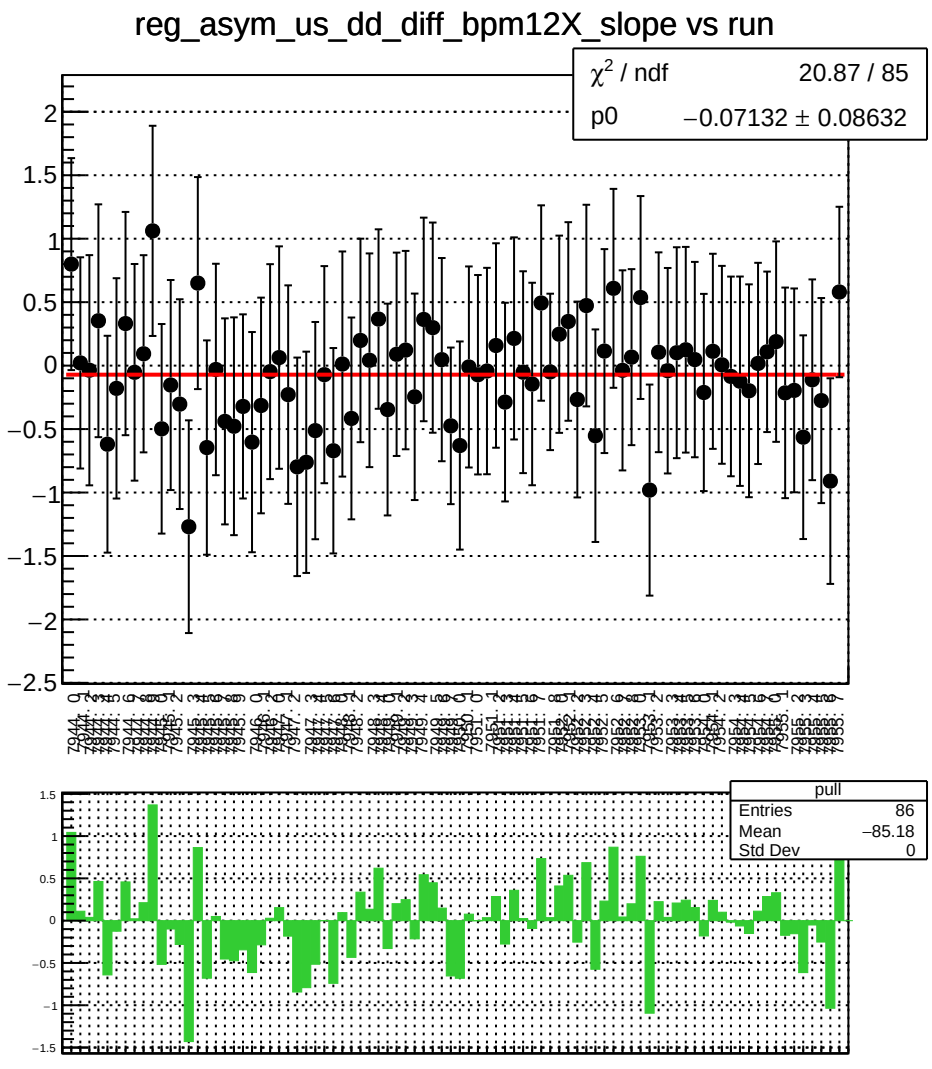

pull1D
Entries 86
Mean −0.002645
Std Dev 0.4208

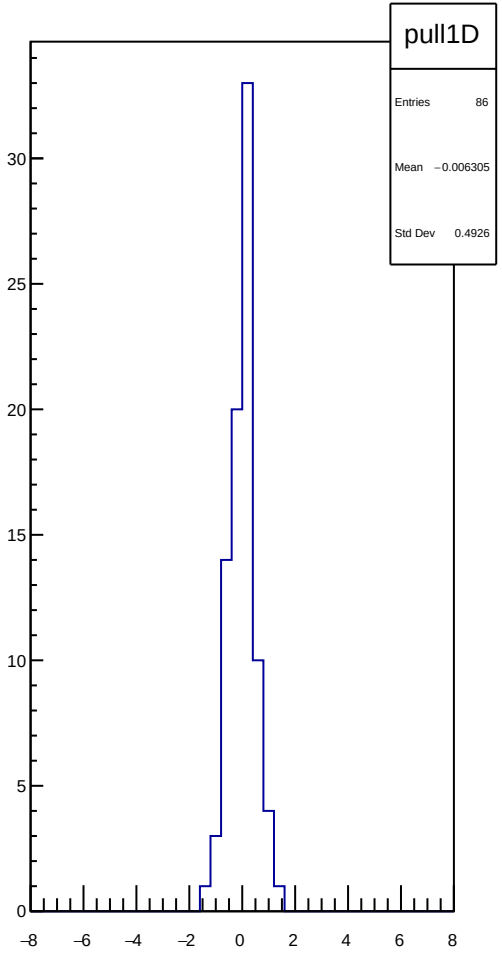

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.31 / 85
p0 −49.65 ± 2.294
pull
Entries 86
Mean 17.42
Std Dev 23.49

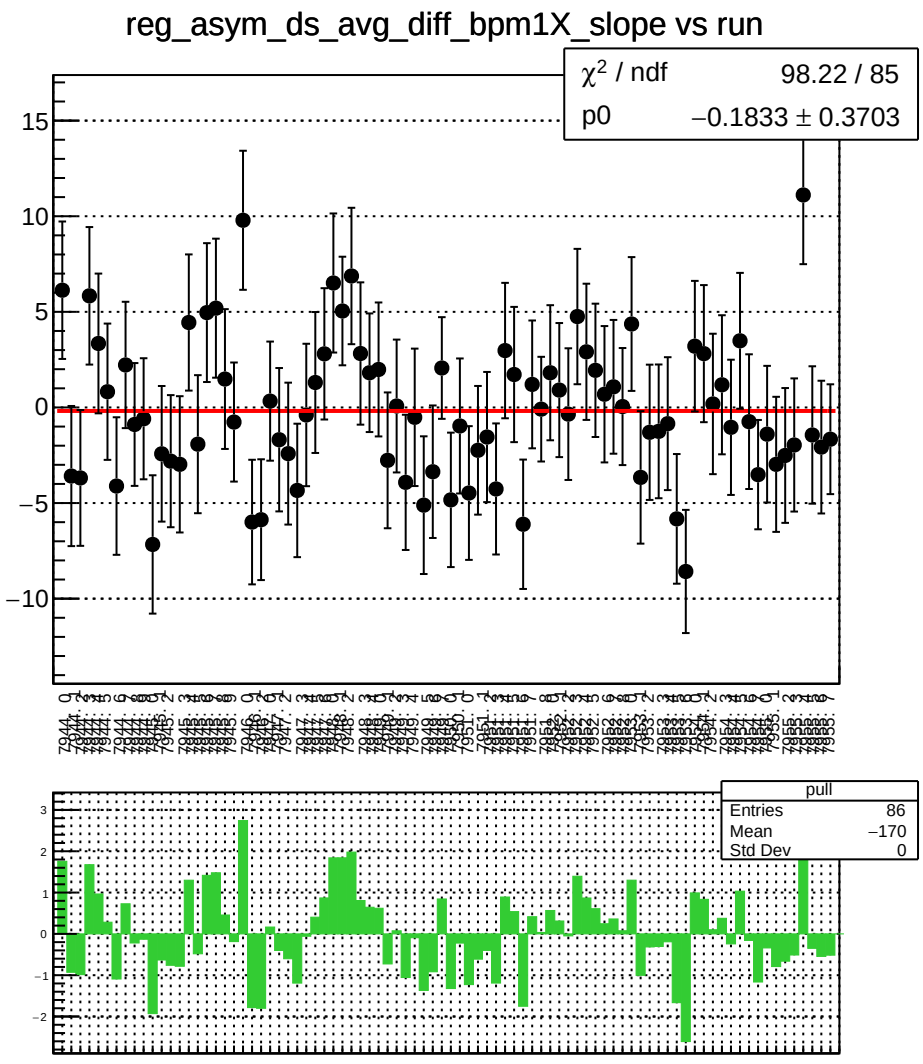

pull1D
Entries 86
Mean 0.008415
Std Dev 0.4354

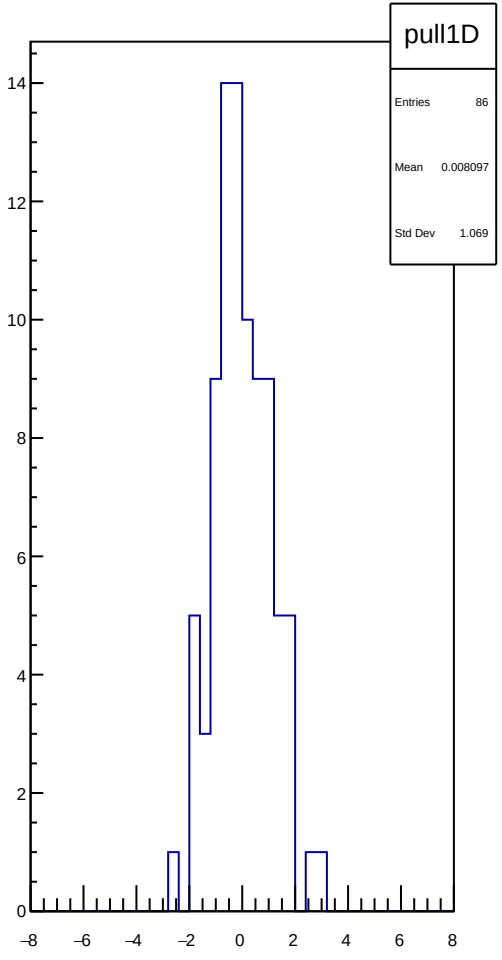

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.8 / 85
p0 11.7 ± 3.065
pull
Entries 86
Mean 824.3
Std Dev 0

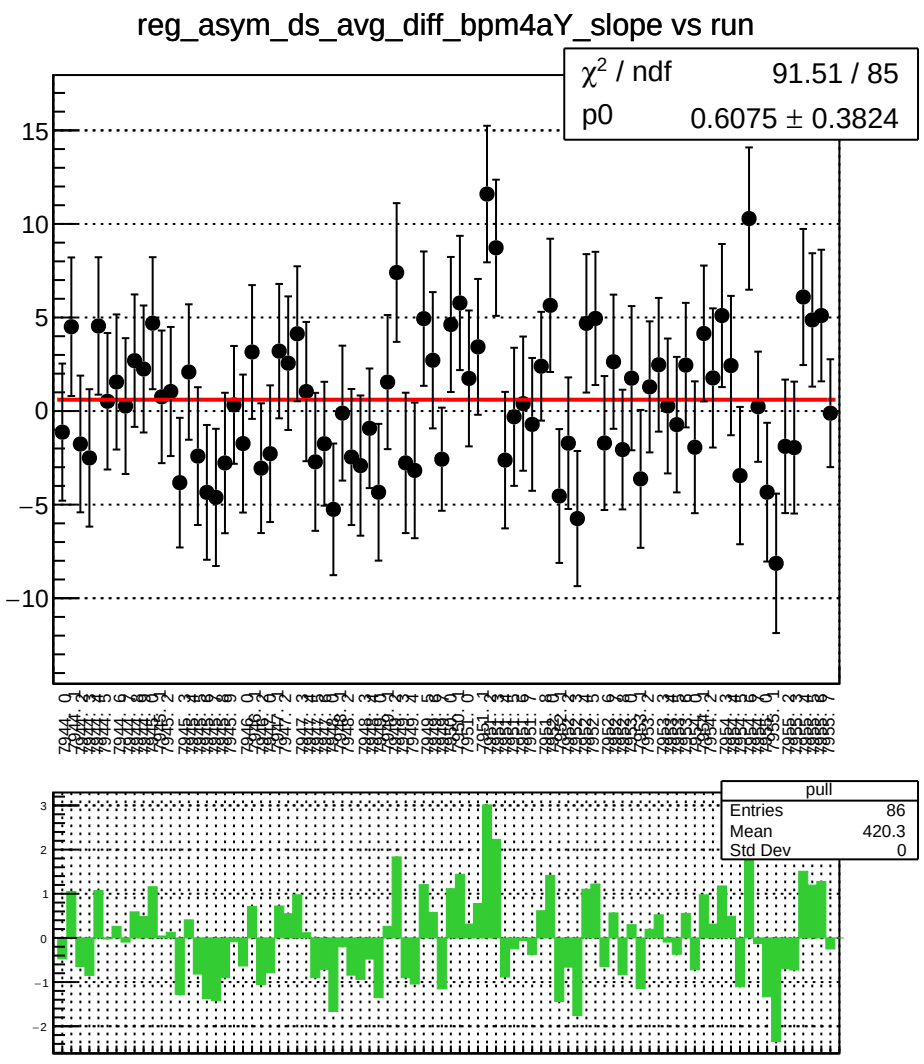

pull1D
Entries 86
Mean 0.00237
Std Dev 0.4149

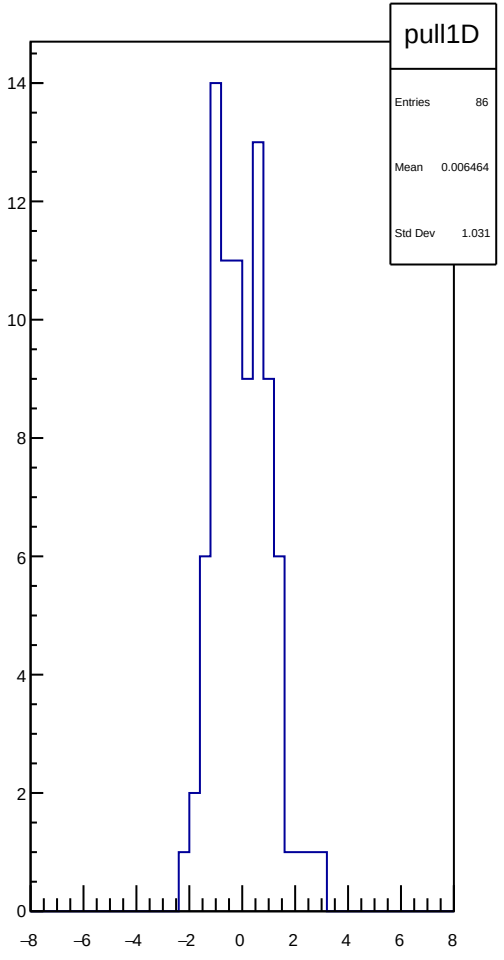

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 20.87 / 85
p0 −0.07132 ± 0.08632
pull
Entries 86
Mean −85.18
Std Dev 0

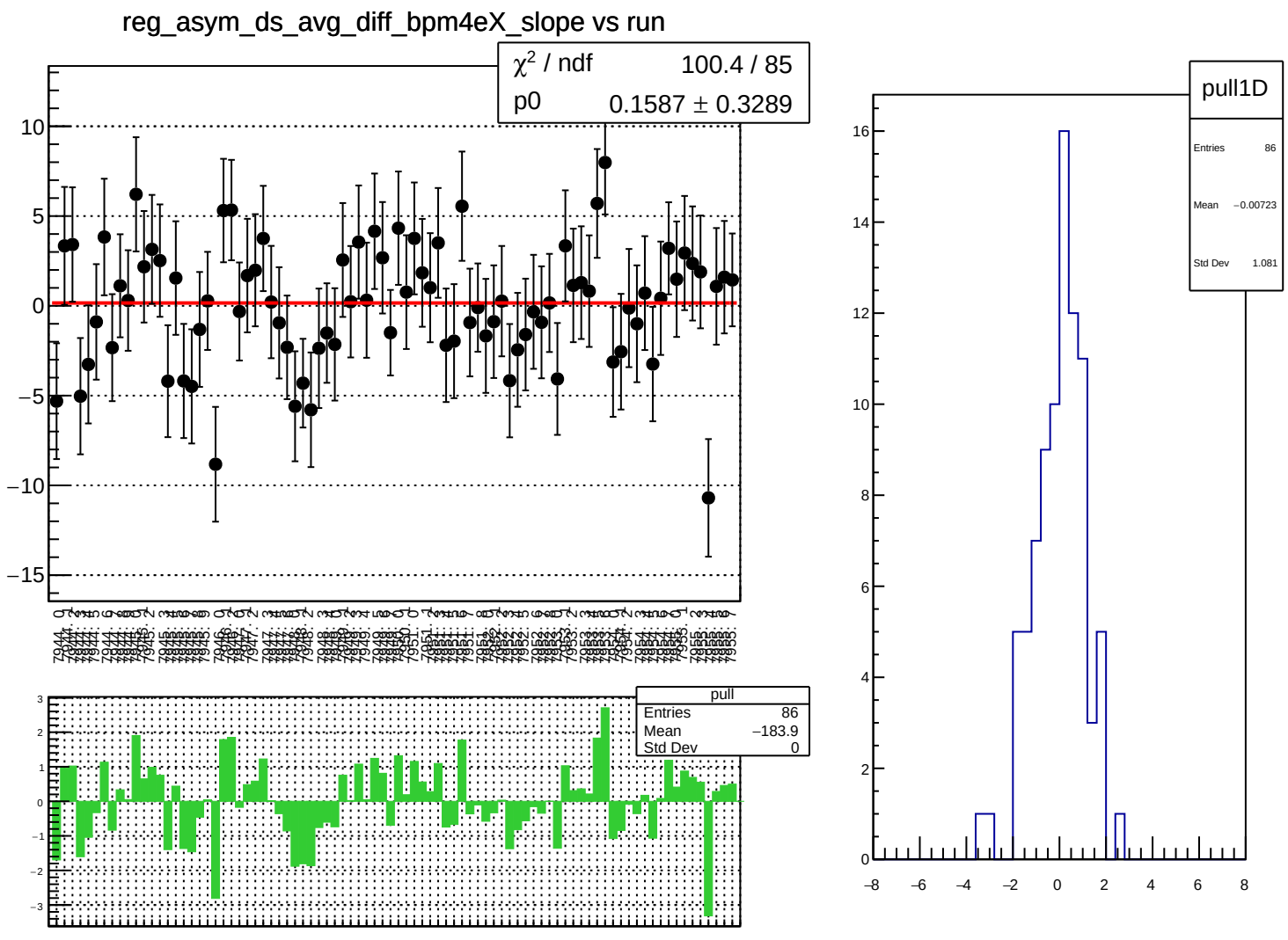

pull1D
Entries 86
Mean −0.006305
Std Dev 0.4926

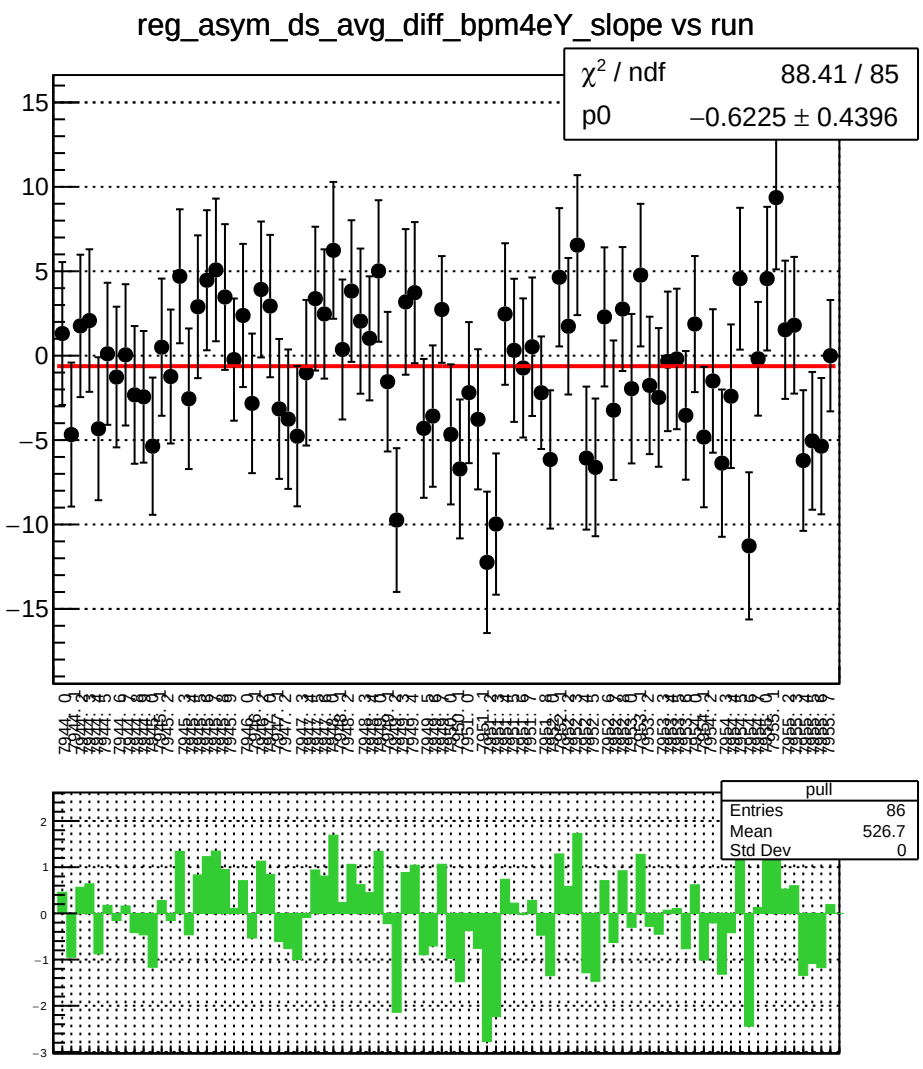

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 98.22 / 85
p0 −0.1833 ± 0.3703
pull
Entries 86
Mean −170
Std Dev 0

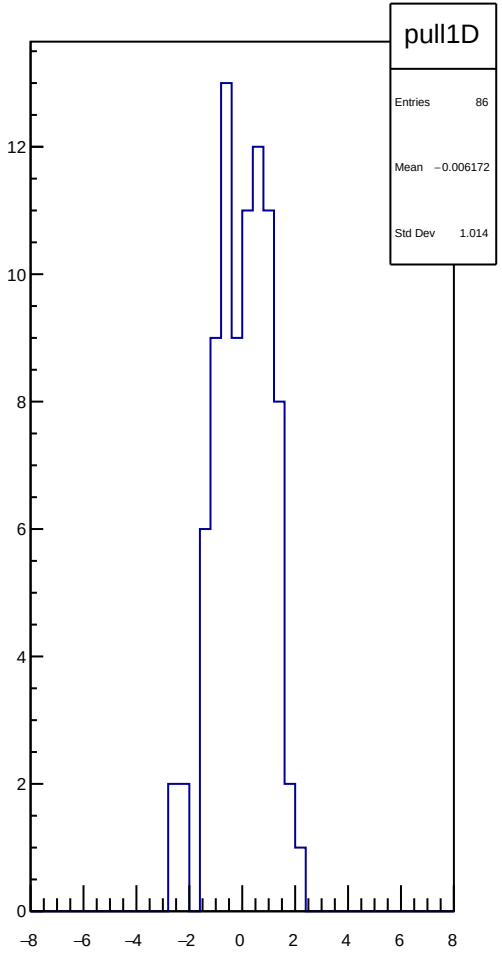

pull1D
Entries 86
Mean 0.008097
Std Dev 1.069

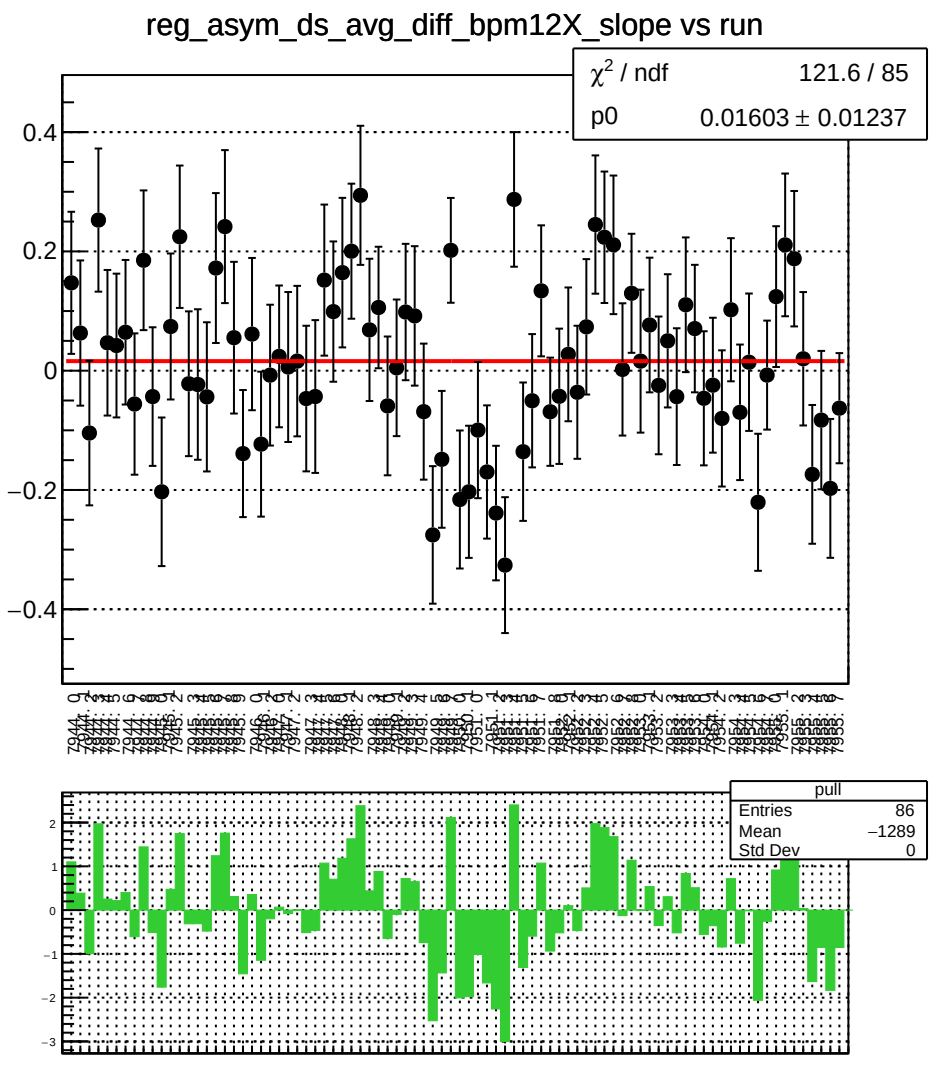

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.51 / 85
p0 0.6075 ± 0.3824
pull
Entries 86
Mean 420.3
Std Dev 0

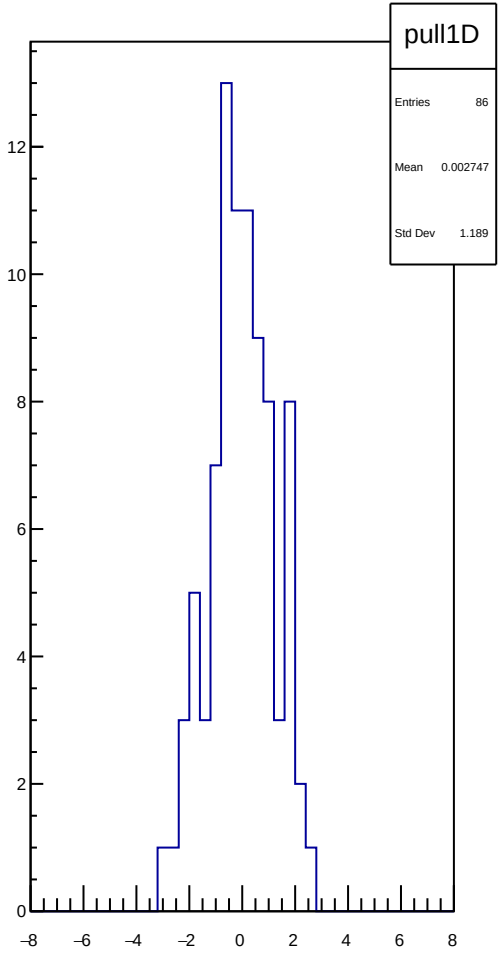

pull1D
Entries 86
Mean 0.006464
Std Dev 1.031

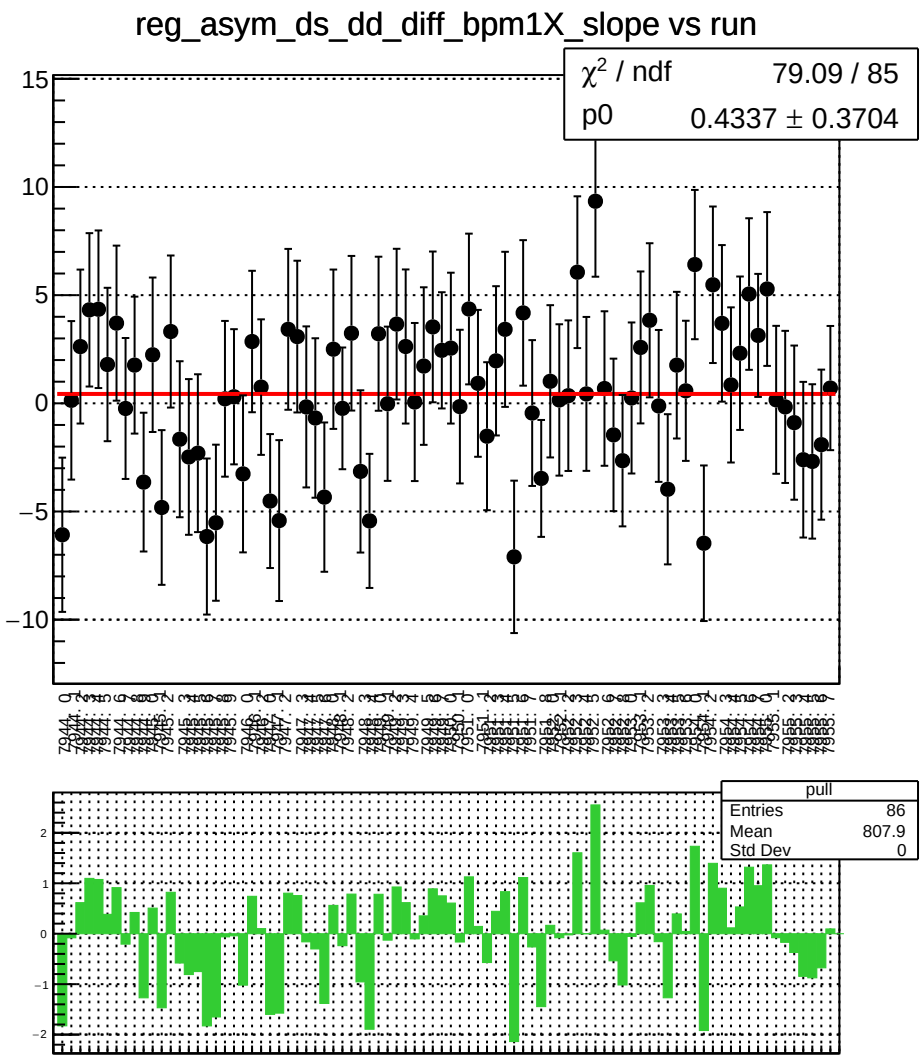

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 100.4 / 85
p0 0.1587 ± 0.3289
pull
Entries 86
Mean −183.9
Std Dev 0
pull1D
Entries 86
Mean −0.00723
Std Dev 1.081

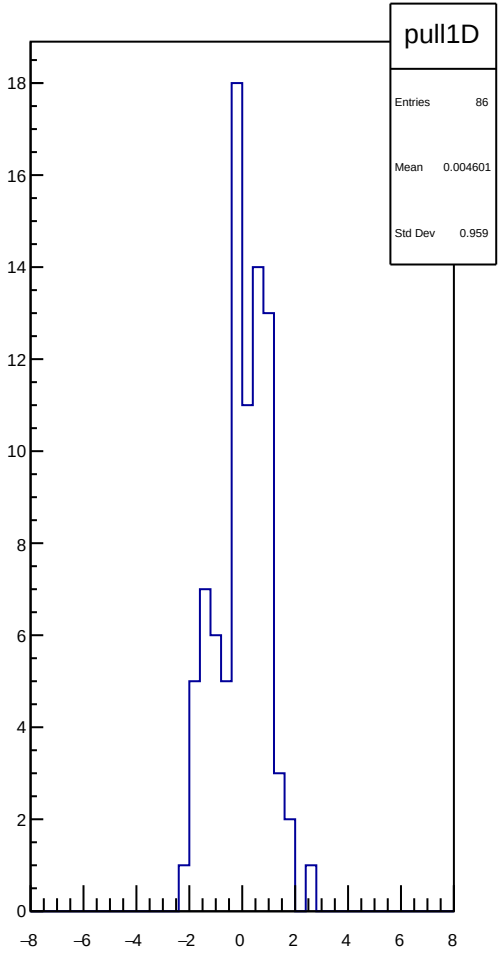

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.41 / 85
p0 −0.6225 ± 0.4396
pull
Entries 86
Mean 526.7
Std Dev 0

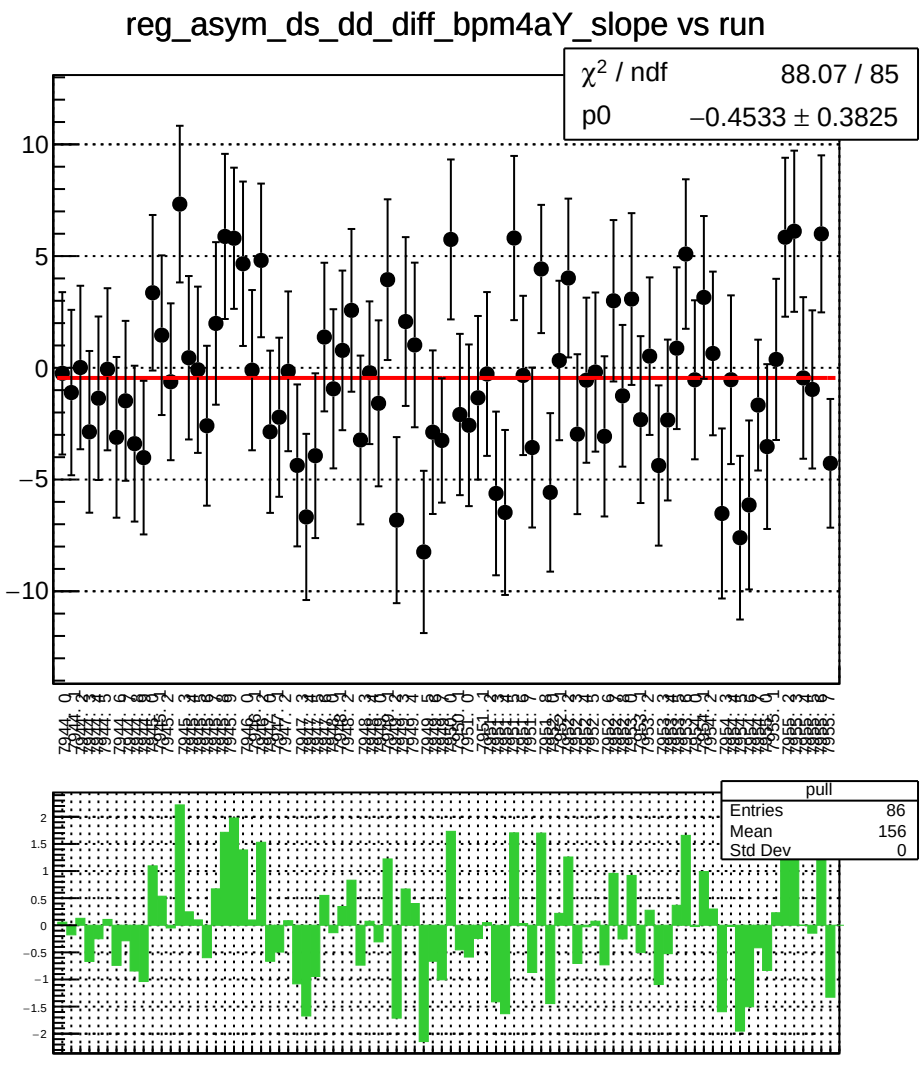

pull1D
Entries 86
Mean −0.006172
Std Dev 1.014

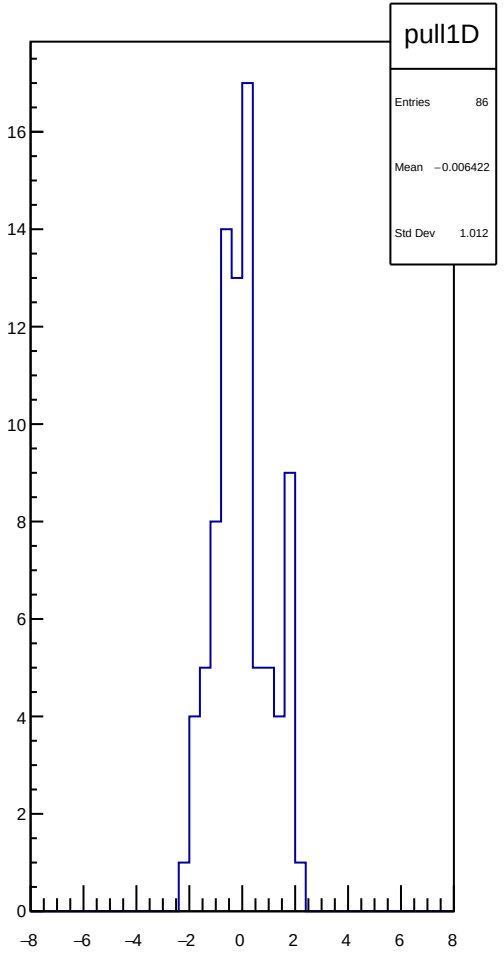

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ^2 / ndf 121.6 / 85
p0 0.01603 ± 0.01237
pull
Entries 86
Mean −1289
Std Dev 0

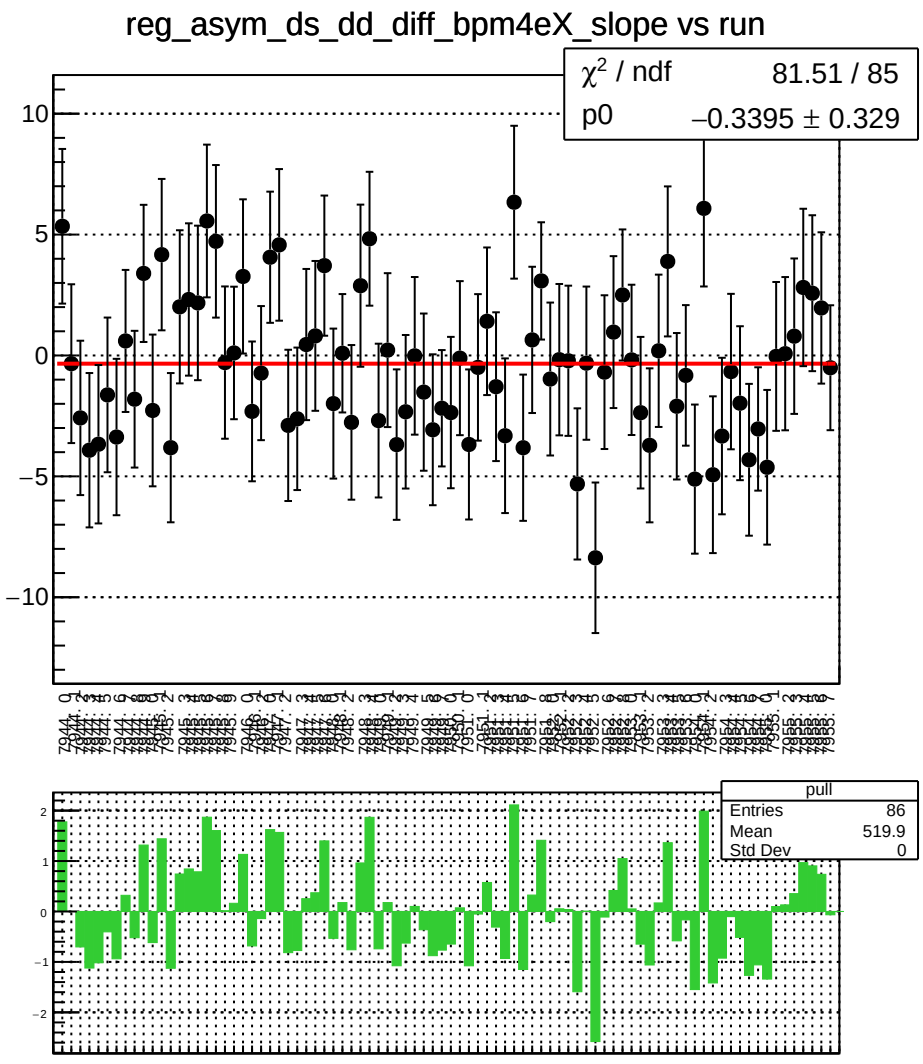

pull1D
Entries 86
Mean 0.002747
Std Dev 1.189

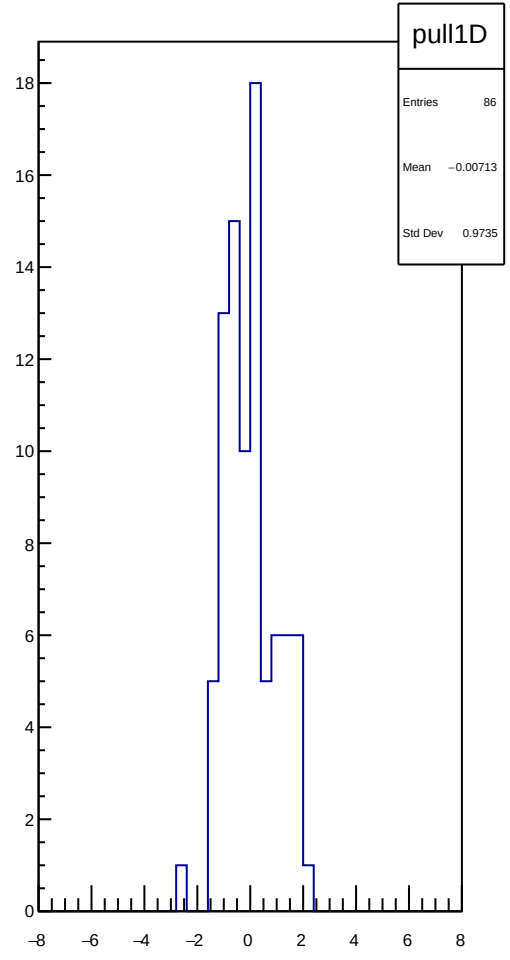

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 79.09 / 85
p0 0.4337 ± 0.3704
pull
Entries 86
Mean 807.9
Std Dev 0

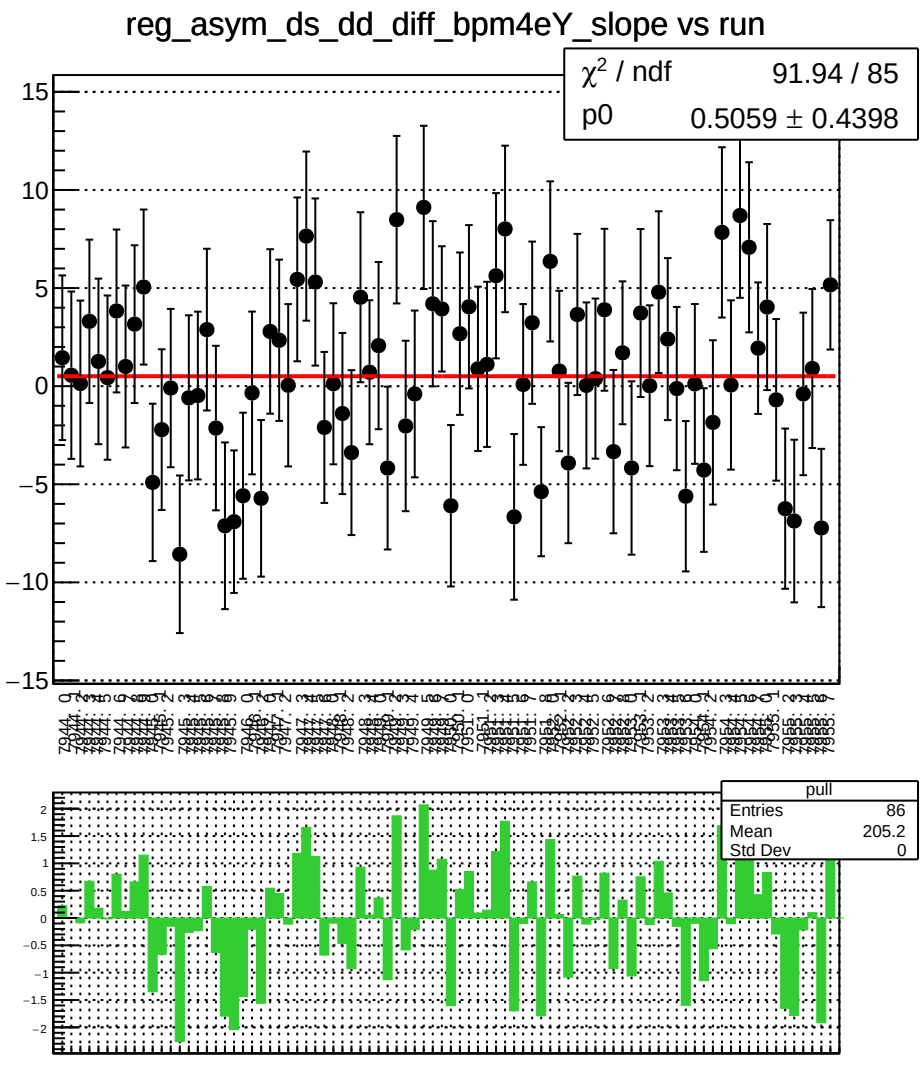

pull1D
Entries 86
Mean 0.004601
Std Dev 0.959

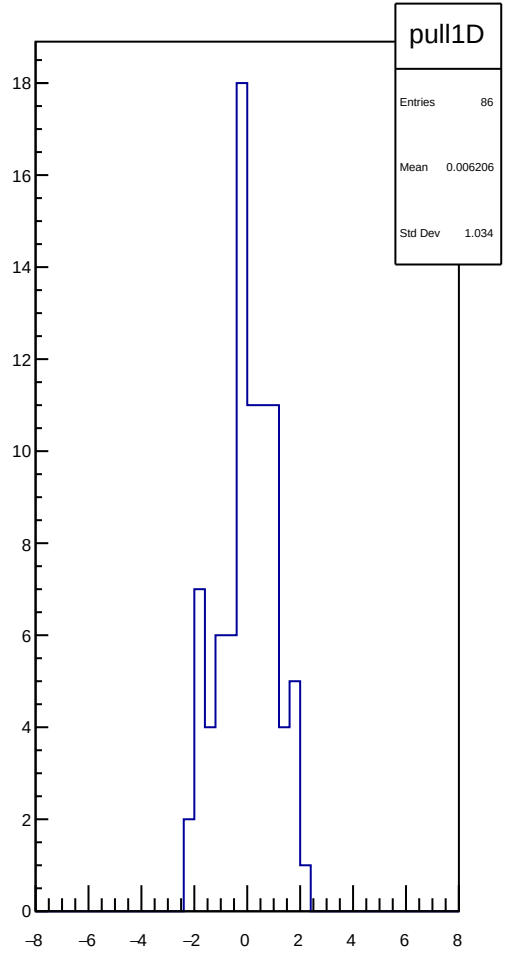

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.07 / 85
p0 −0.4533 ± 0.3825
pull
Entries 86
Mean 156
Std Dev 0

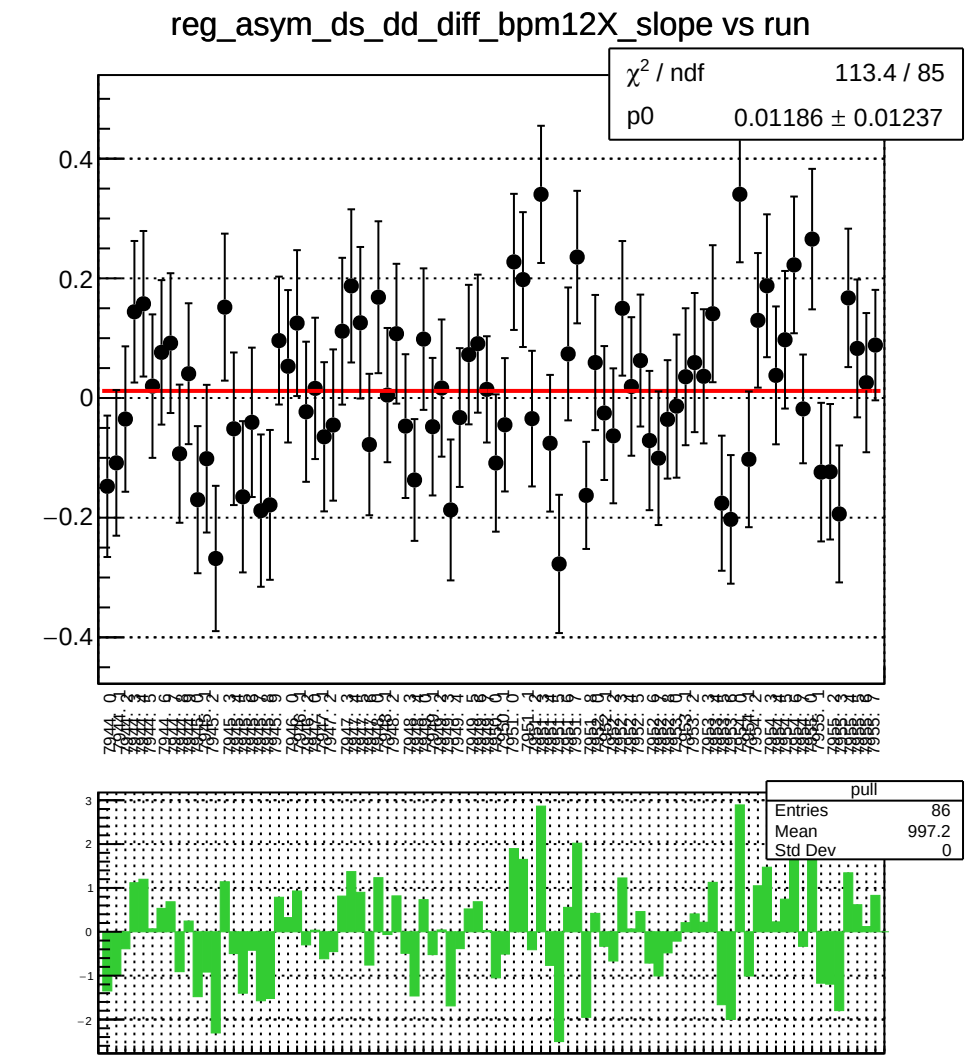

pull1D
Entries 86
Mean −0.006422
Std Dev 1.012

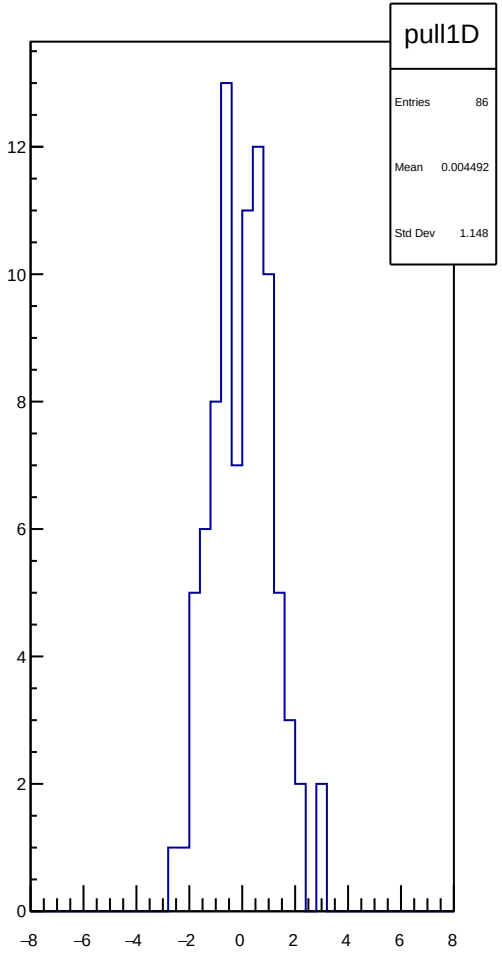

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.51 / 85
p0 −0.3395 ± 0.329
pull
Entries 86
Mean 519.9
Std Dev 0

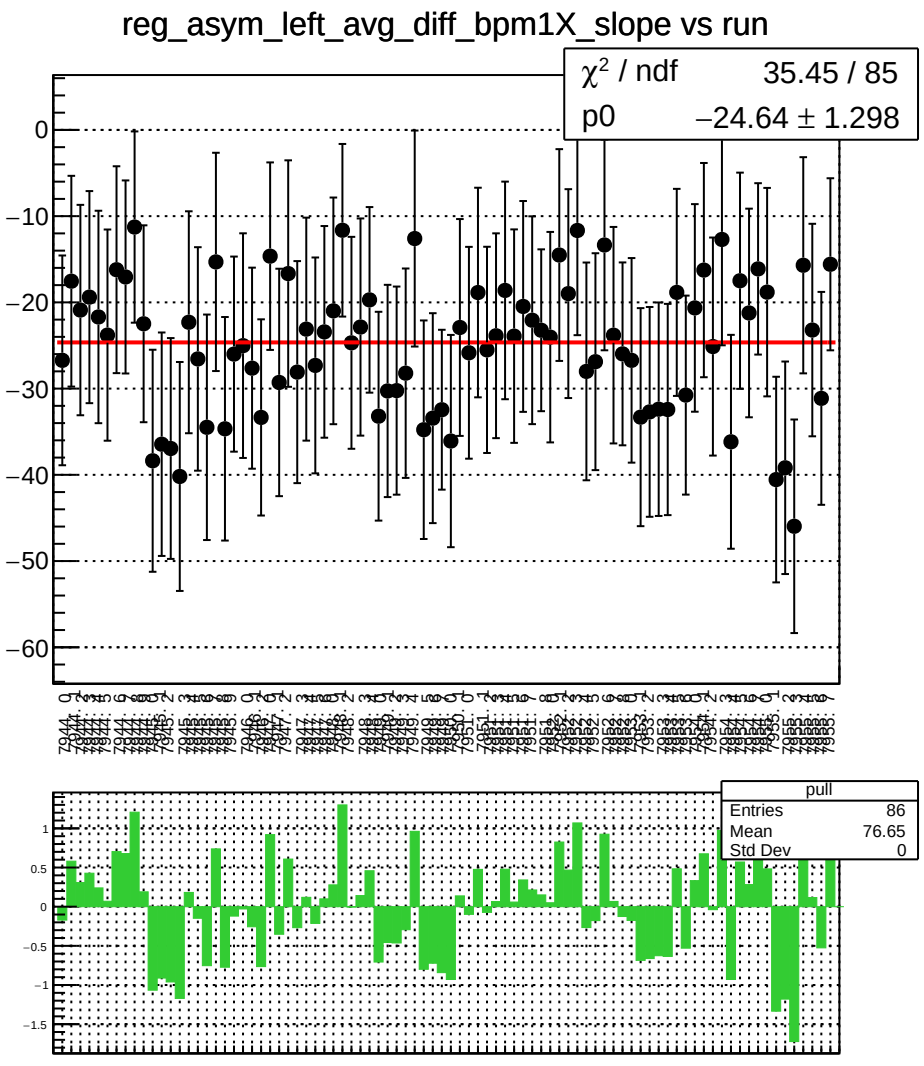

pull1D
Entries 86
Mean −0.00713
Std Dev 0.9735

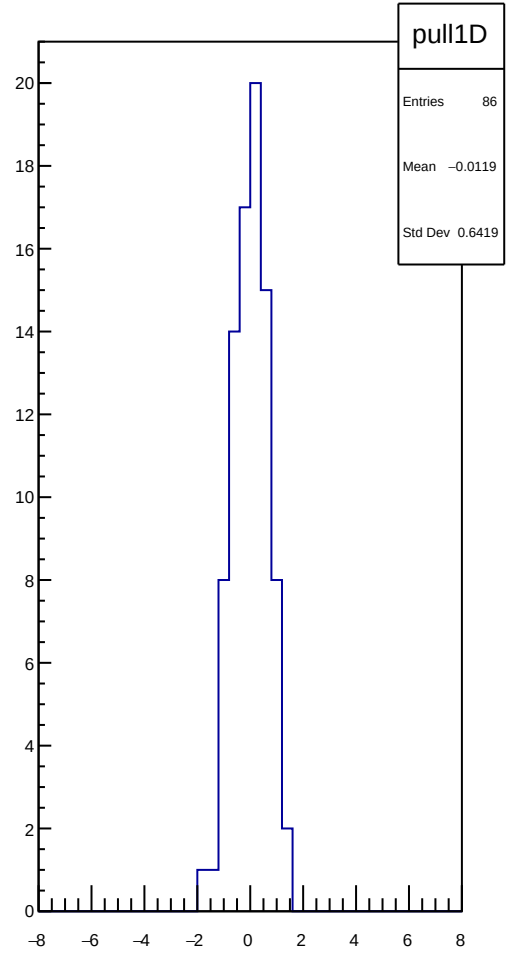

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.94 / 85
p0 0.5059 ± 0.4398
pull
Entries 86
Mean 205.2
Std Dev 0

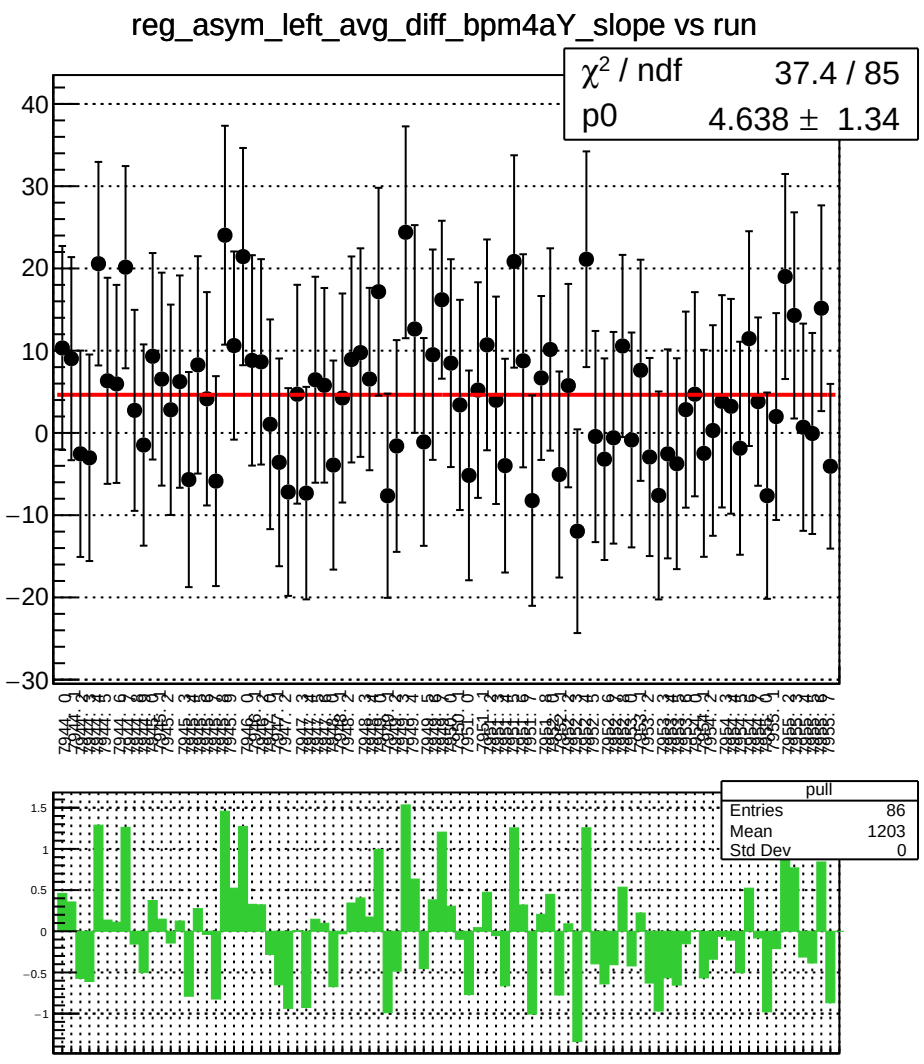

pull1D
Entries 86
Mean 0.006206
Std Dev 1.034

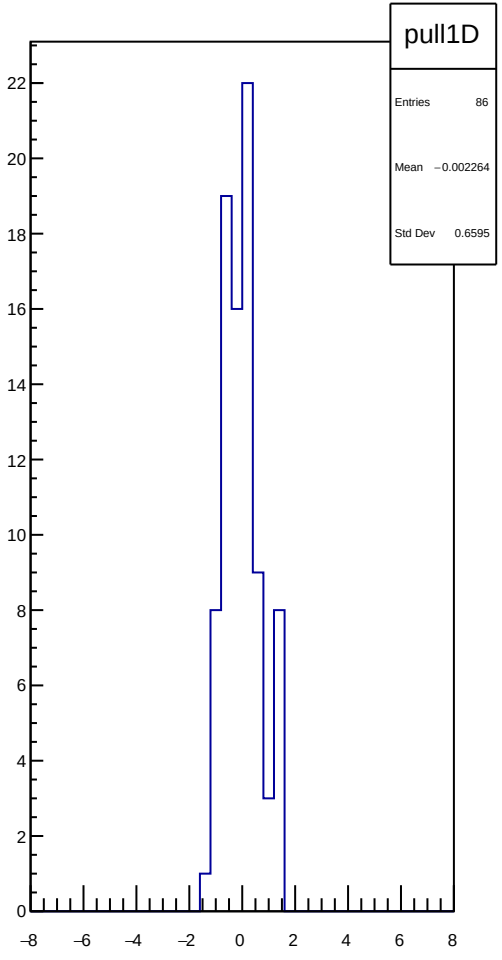

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 113.4 / 85
p0 0.01186 ± 0.01237
pull
Entries 86
Mean 997.2
Std Dev 0

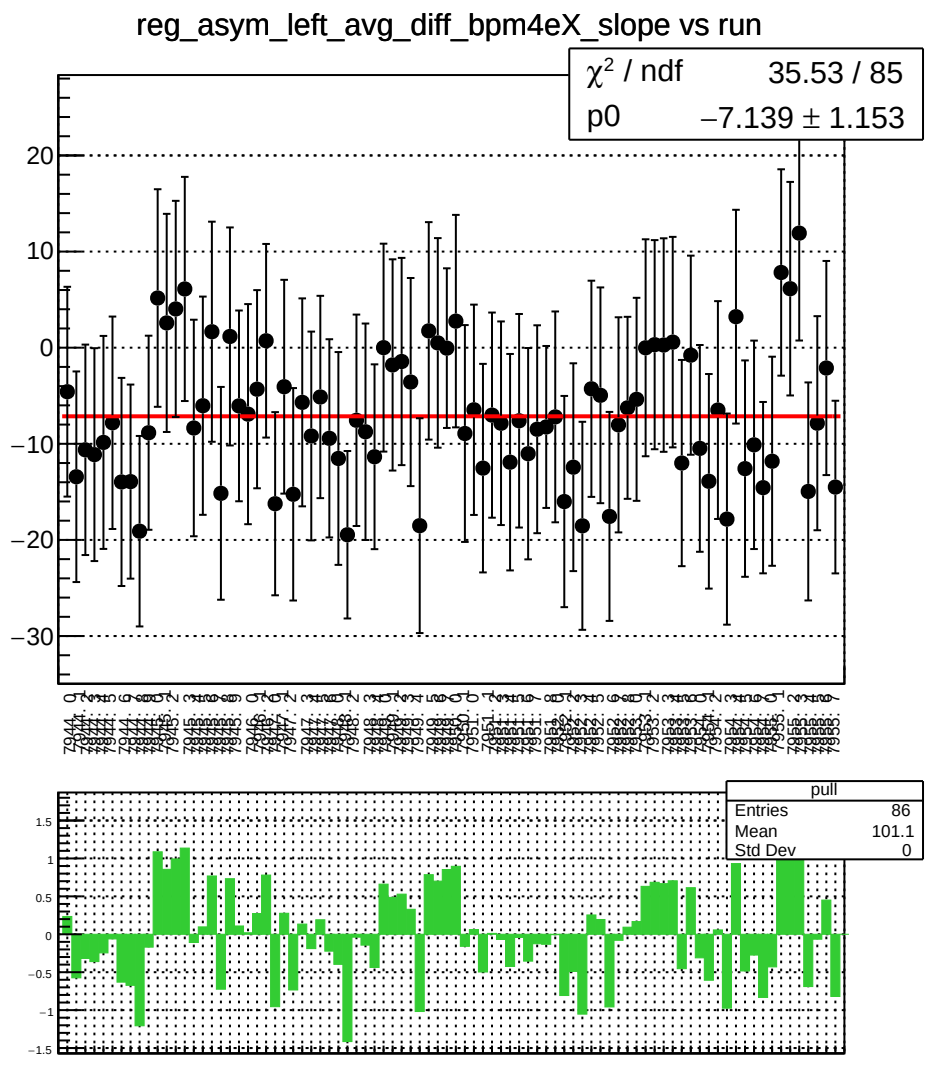

pull1D
Entries 86
Mean 0.004492
Std Dev 1.148

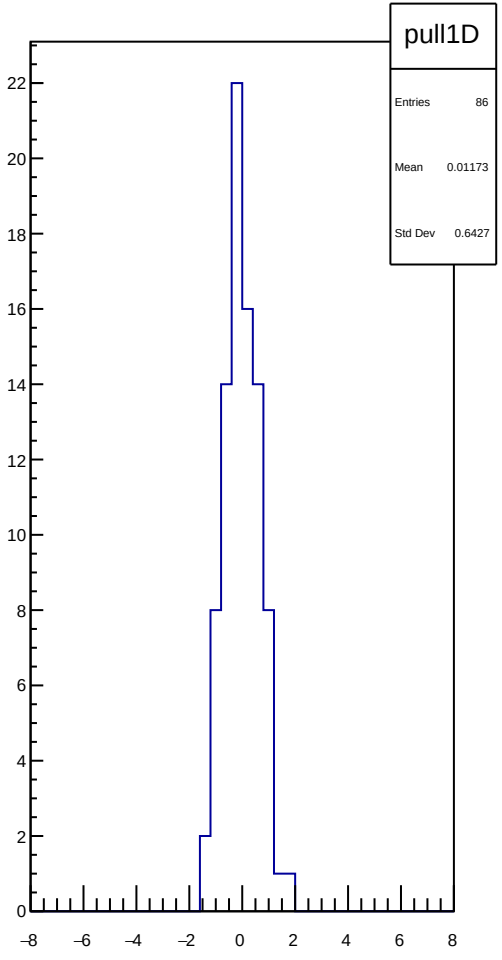

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 35.45 / 85
p0 −24.64 ± 1.298
pull
Entries 86
Mean 76.65
Std Dev 0

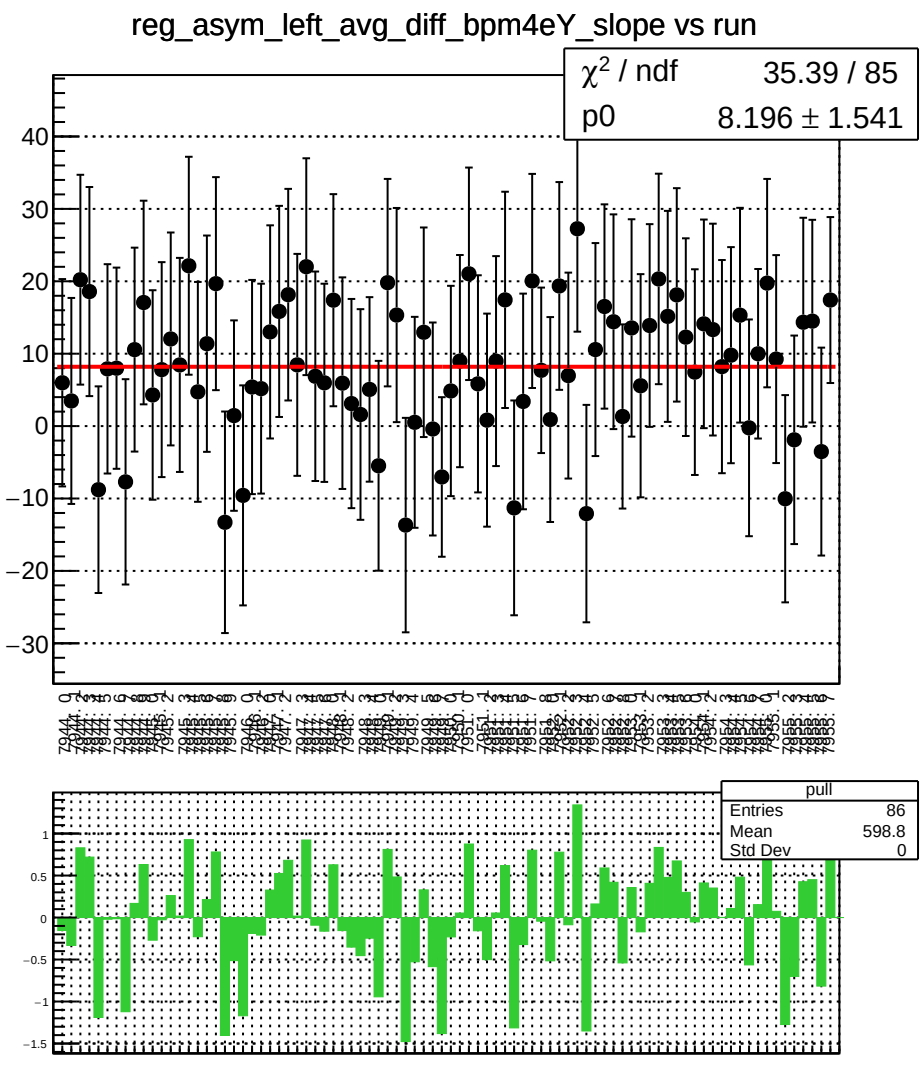

pull1D
Entries 86
Mean −0.0119
Std Dev 0.6419

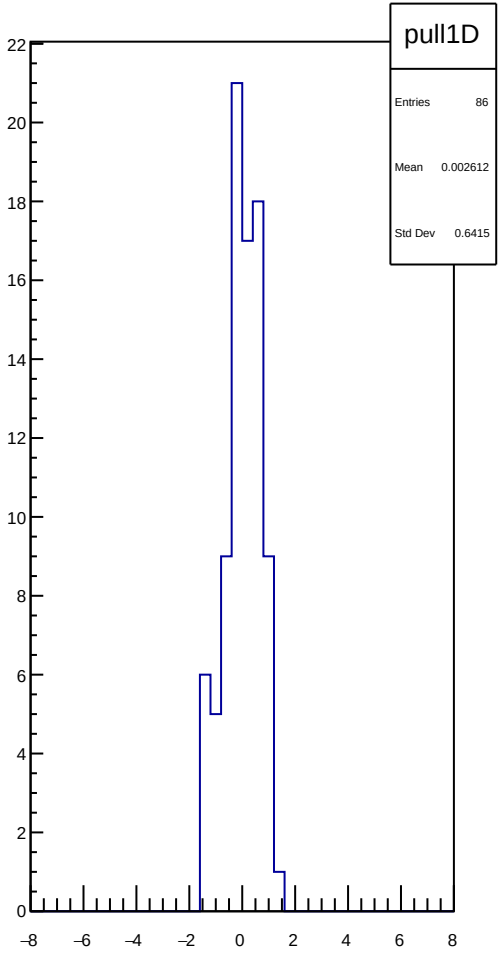

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.4 / 85
p0 4.638 ± 1.34
pull
Entries 86
Mean 1203
Std Dev 0

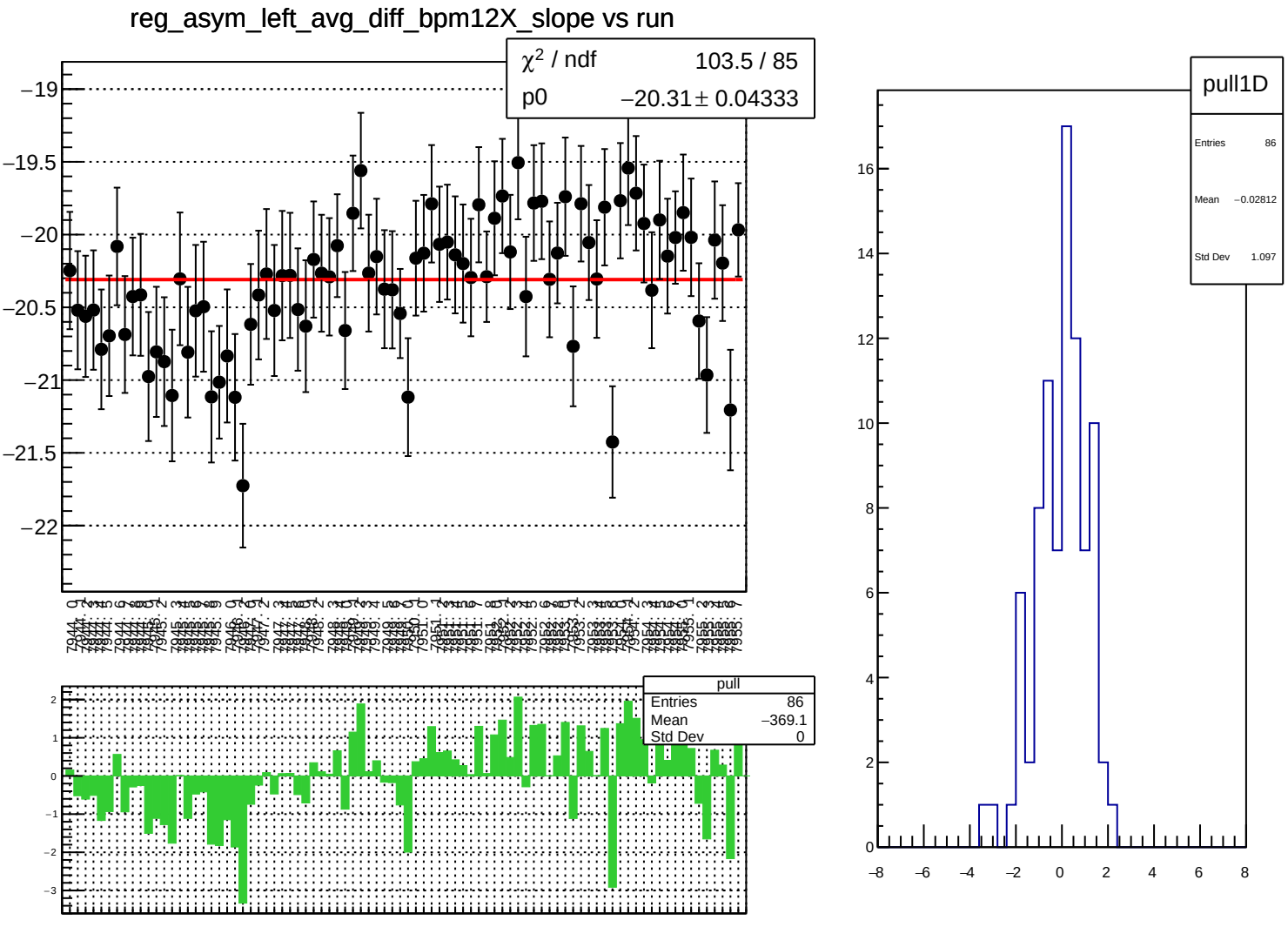

pull1D
Entries 86
Mean −0.002264
Std Dev 0.6595

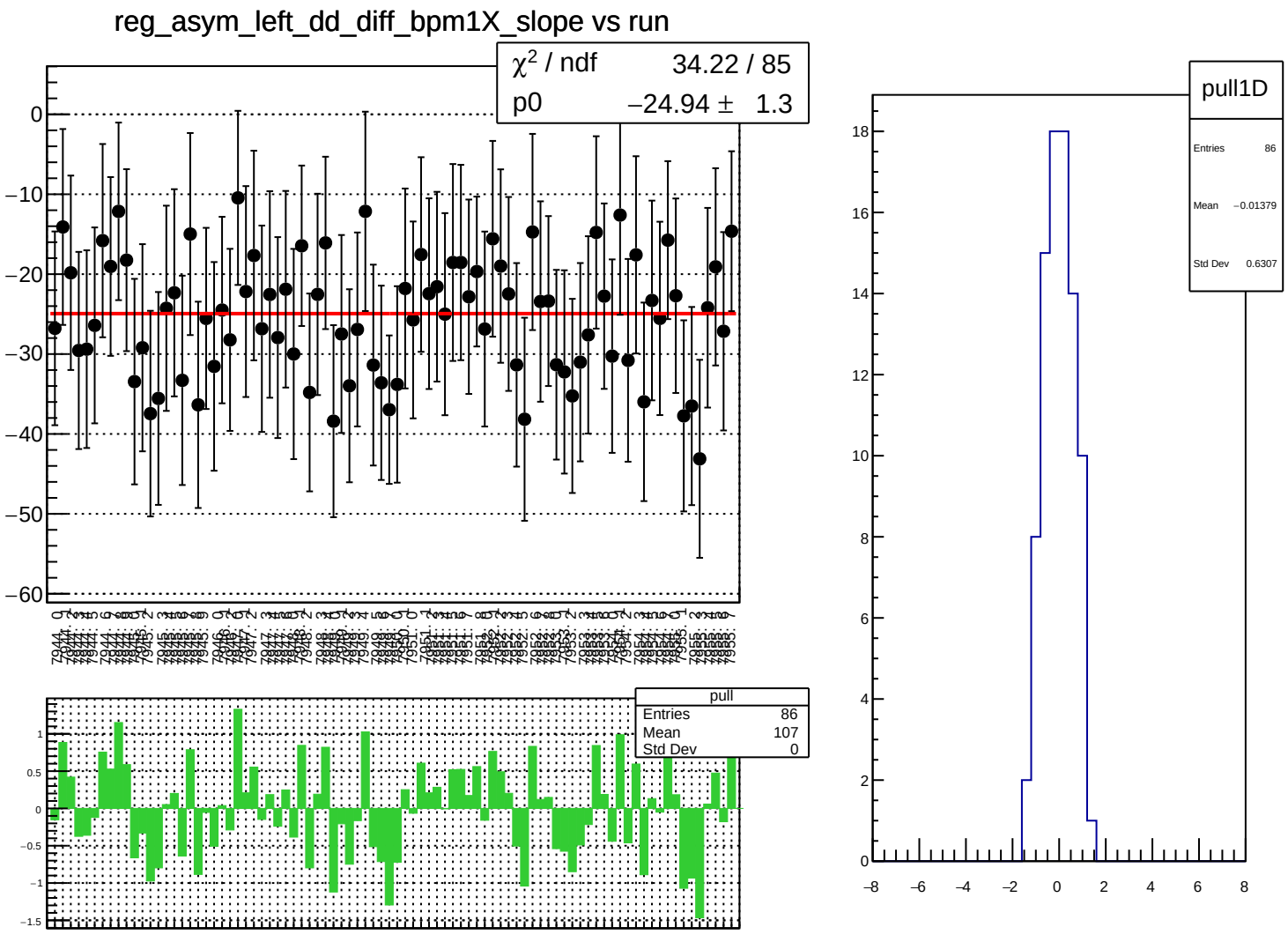

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.53 / 85
p0 −7.139 ± 1.153
pull
Entries 86
Mean 101.1
Std Dev 0

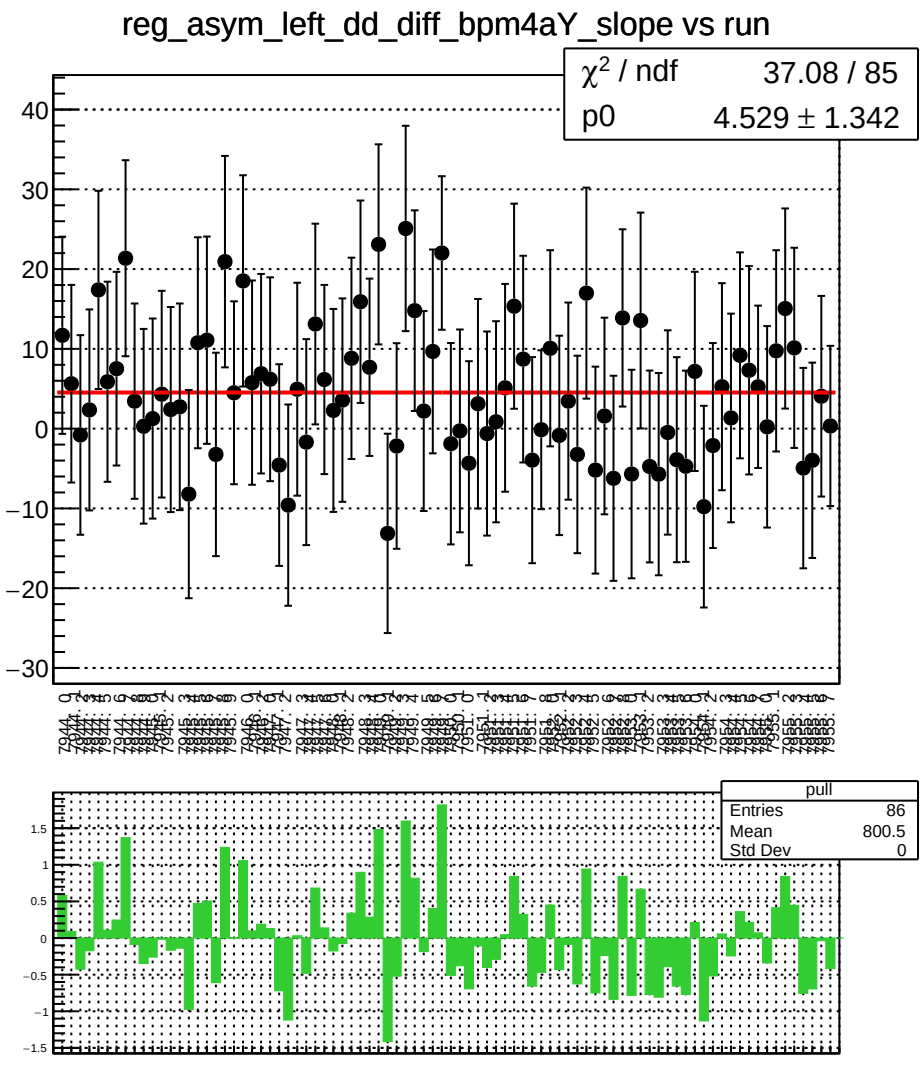

pull1D
Entries 86
Mean 0.01173
Std Dev 0.6427

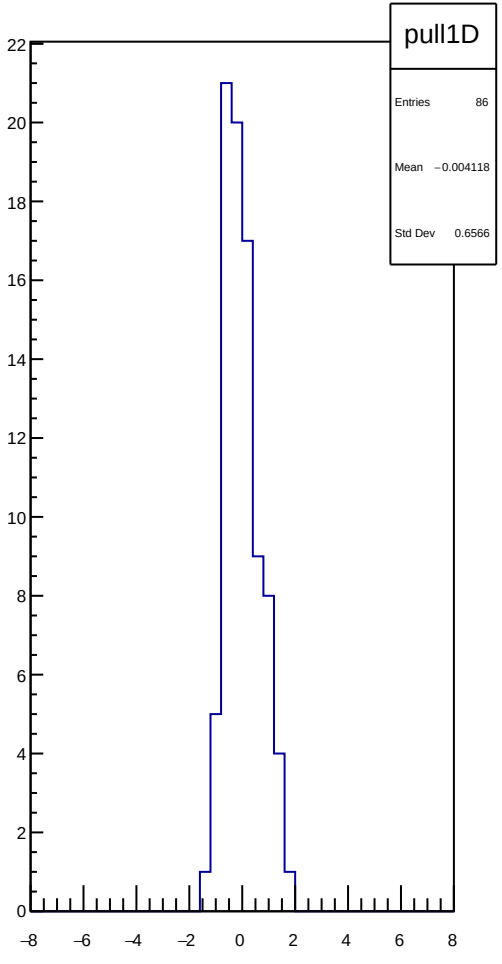

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.39 / 85
p0 8.196 ± 1.541
pull
Entries 86
Mean 598.8
Std Dev 0

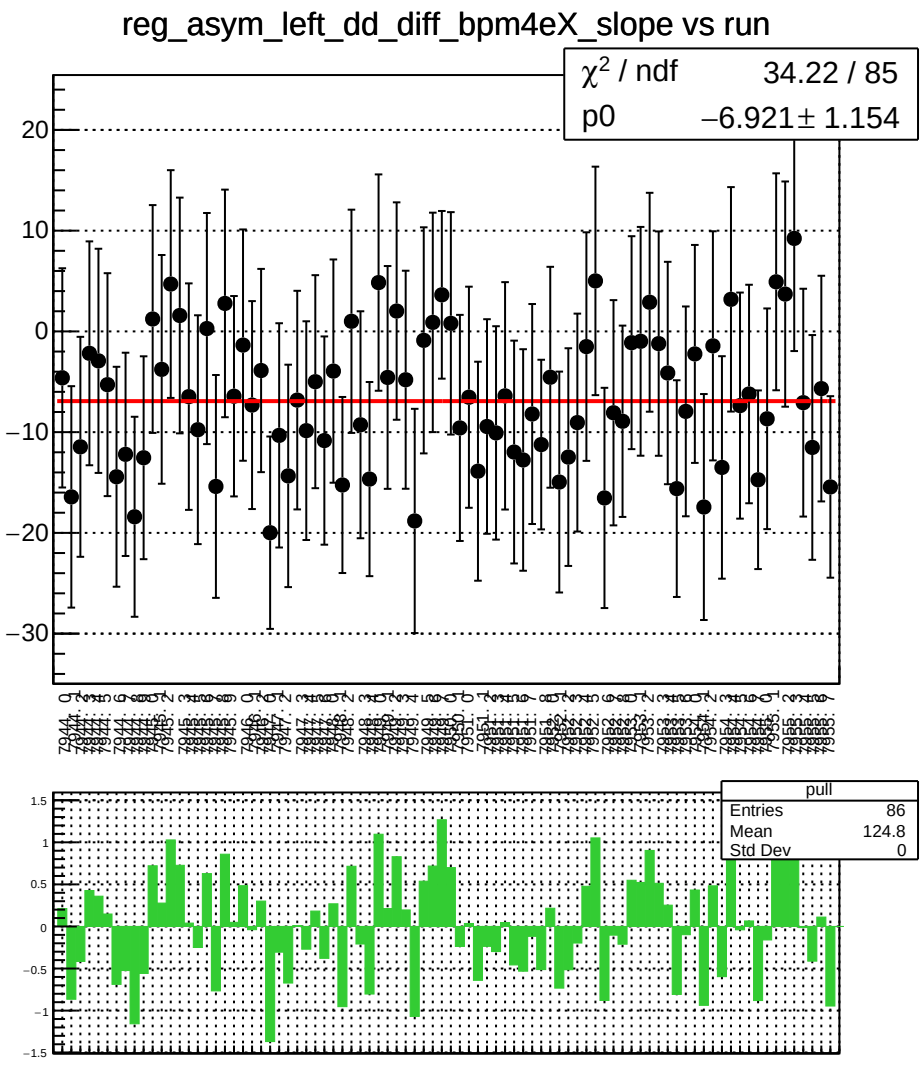

pull1D
Entries 86
Mean 0.002612
Std Dev 0.6415

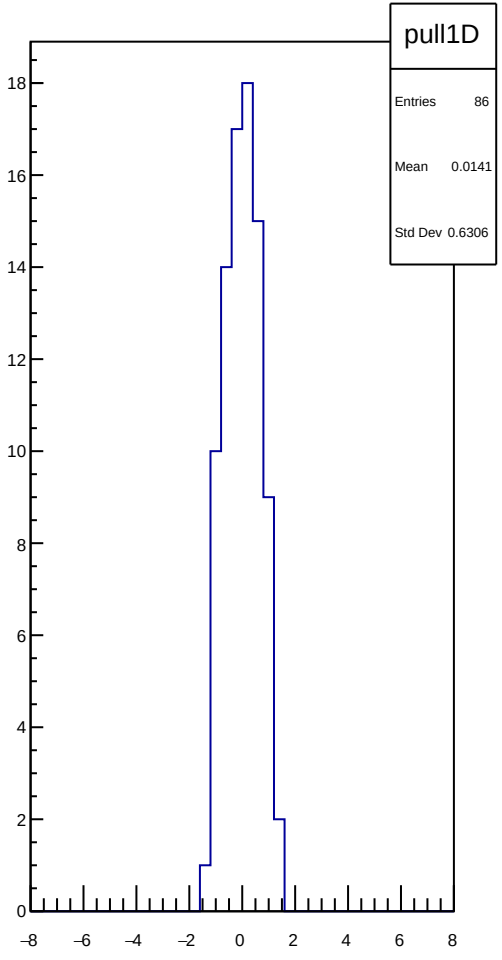

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 103.5 / 85
p0 −20.31 ± 0.04333
−19
−19.5
−20
−20.5
−21
−21.5
−22
pull
Entries 86
Mean −369.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.02812
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

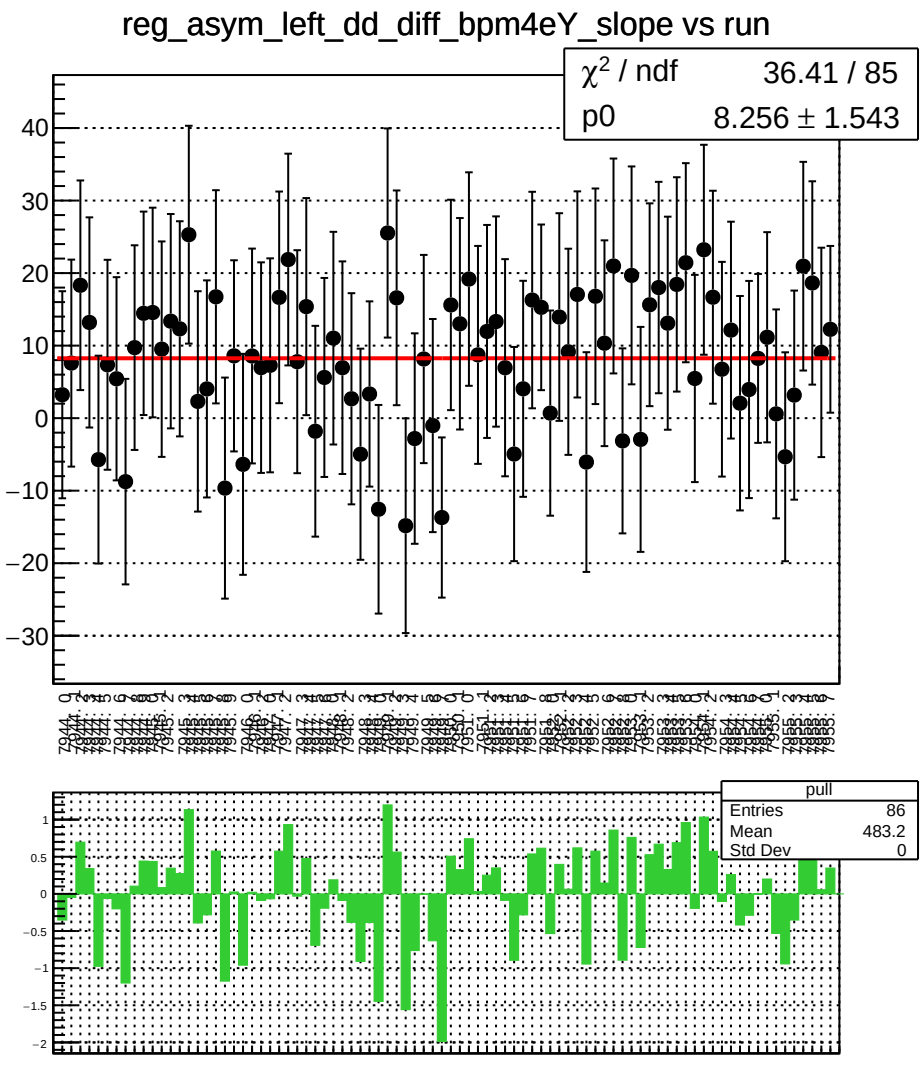

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 34.22 / 85
p0 −24.94 ± 1.3
pull
Entries 86
Mean 107
Std Dev 0
pull1D
Entries 86
Mean −0.01379
Std Dev 0.6307

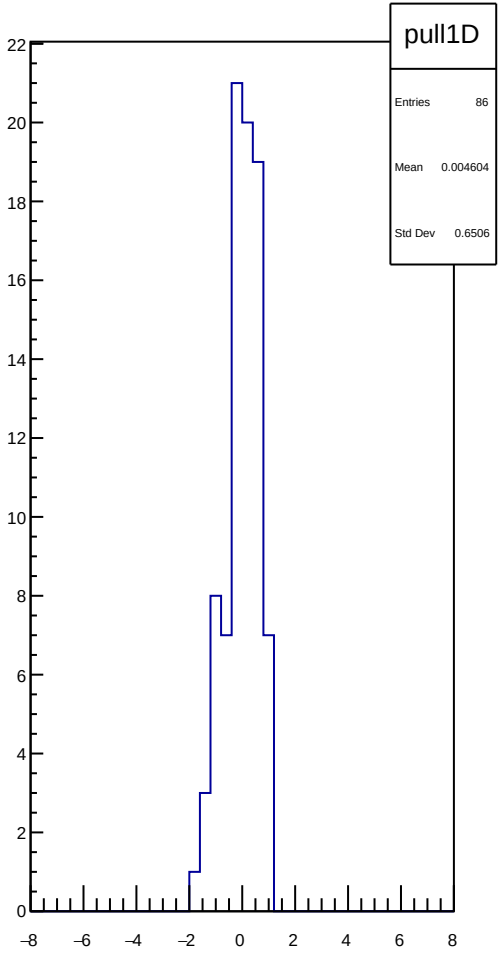

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.08 / 85
p0 4.529 ± 1.342
pull
Entries 86
Mean 800.5
Std Dev 0

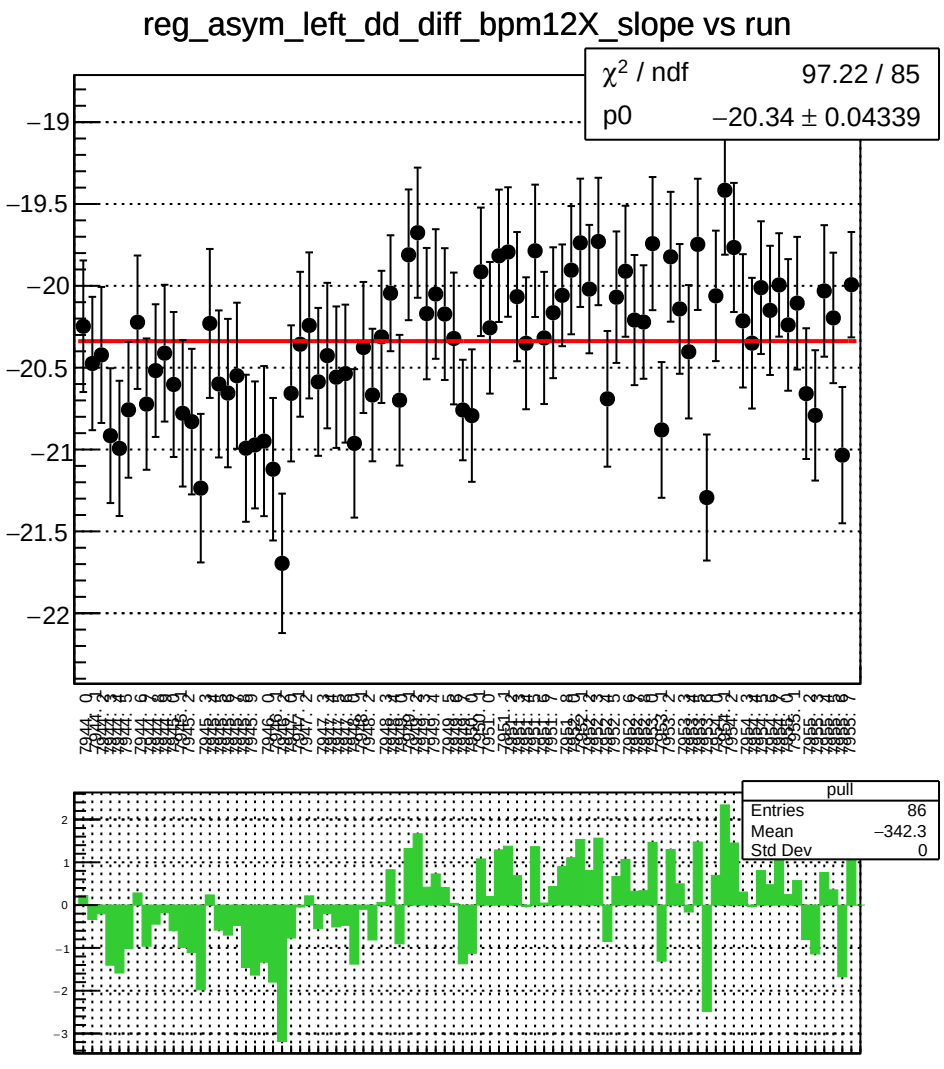

pull1D
Entries 86
Mean −0.004118
Std Dev 0.6566

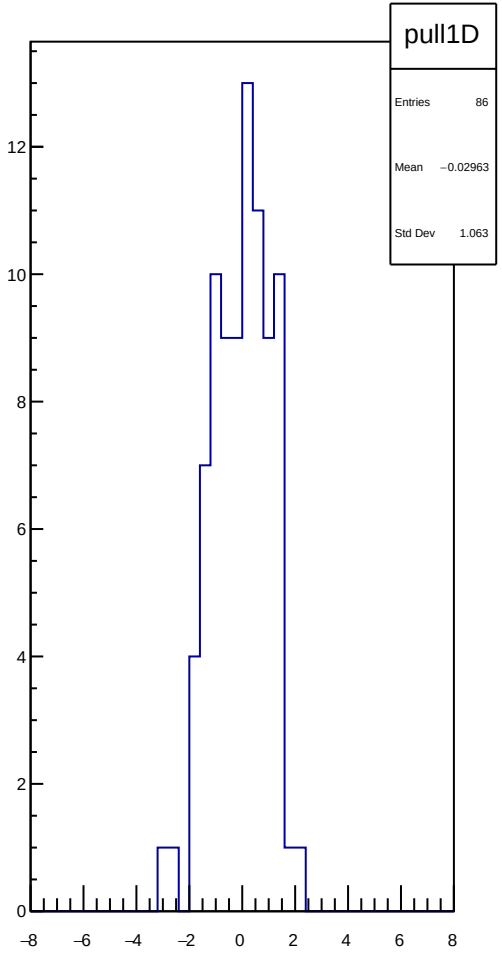

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.22 / 85
p0 −6.921 ± 1.154
pull
Entries 86
Mean 124.8
Std Dev 0

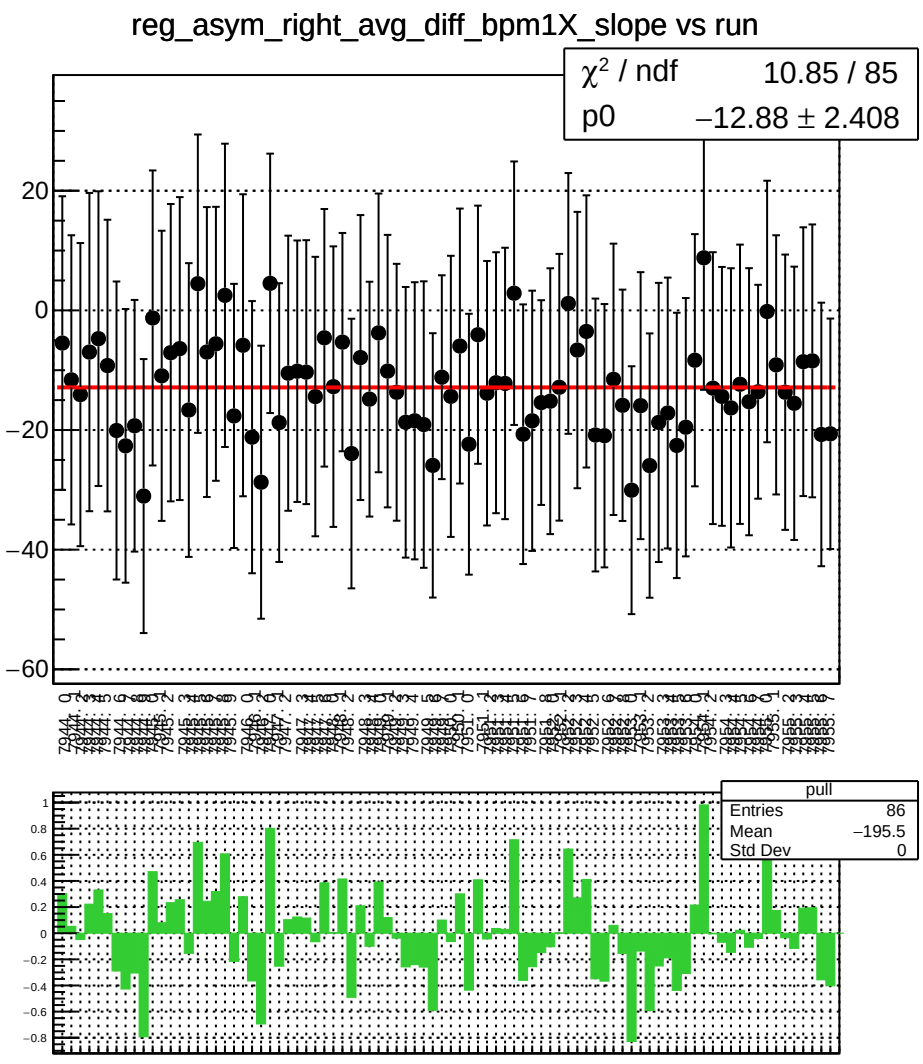

pull1D
Entries 86
Mean 0.0141
Std Dev 0.6306

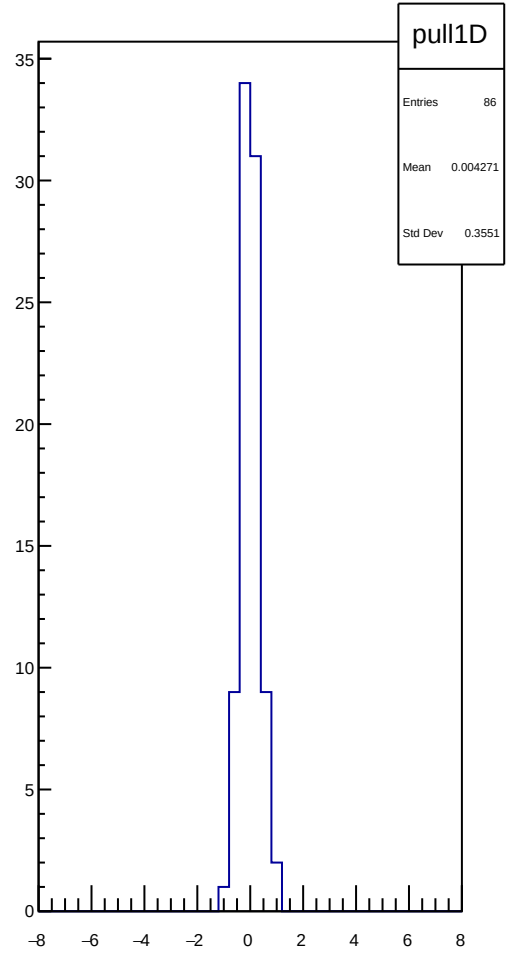

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.41 / 85
p0 8.256 ± 1.543
pull
Entries 86
Mean 483.2
Std Dev 0

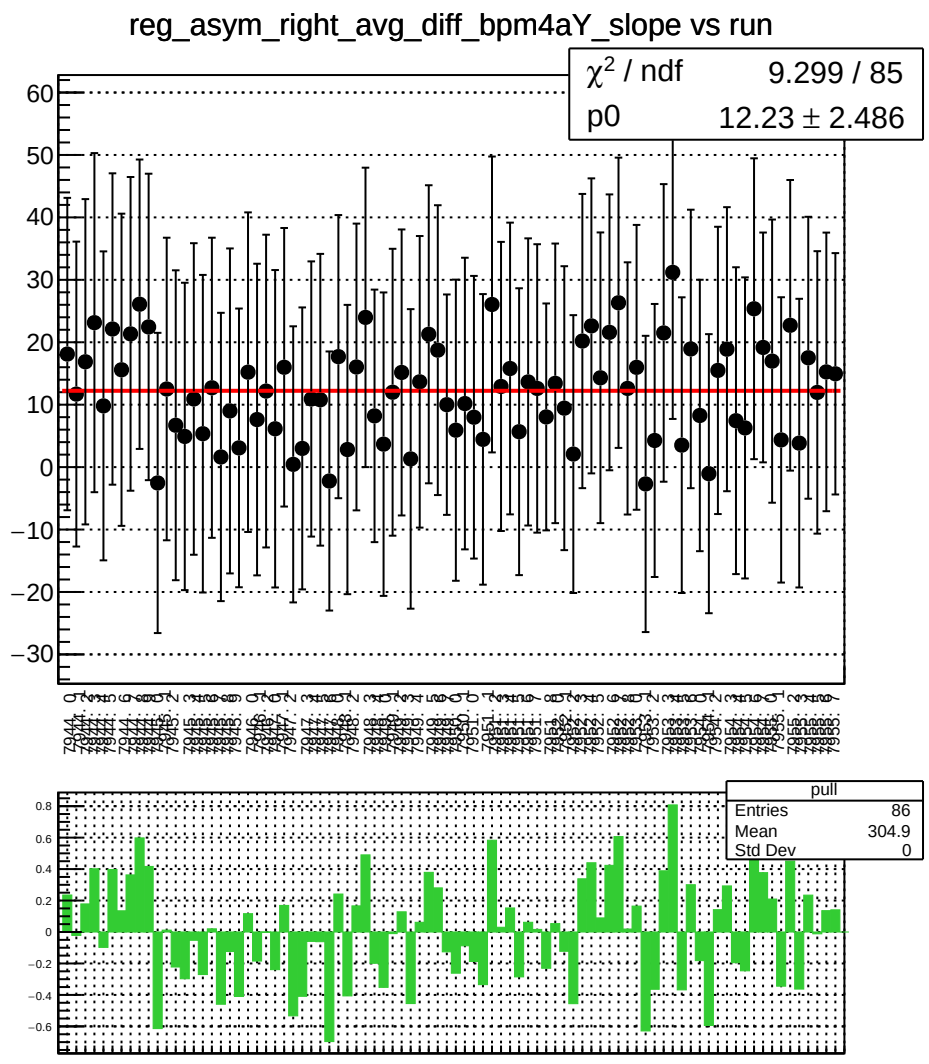

pull1D
Entries 86
Mean 0.004604
Std Dev 0.6506

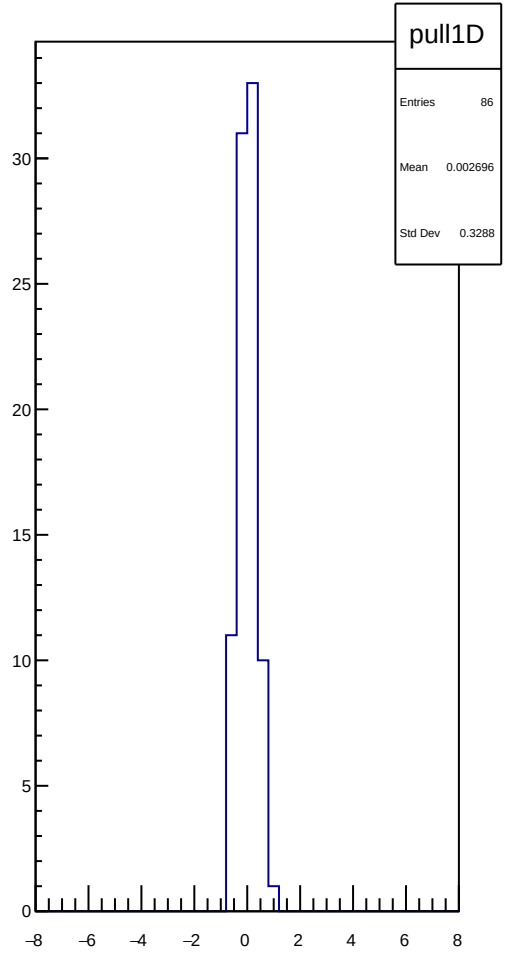

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 97.22 / 85
p0 −20.34 ± 0.04339
pull
Entries 86
Mean −342.3
Std Dev 0

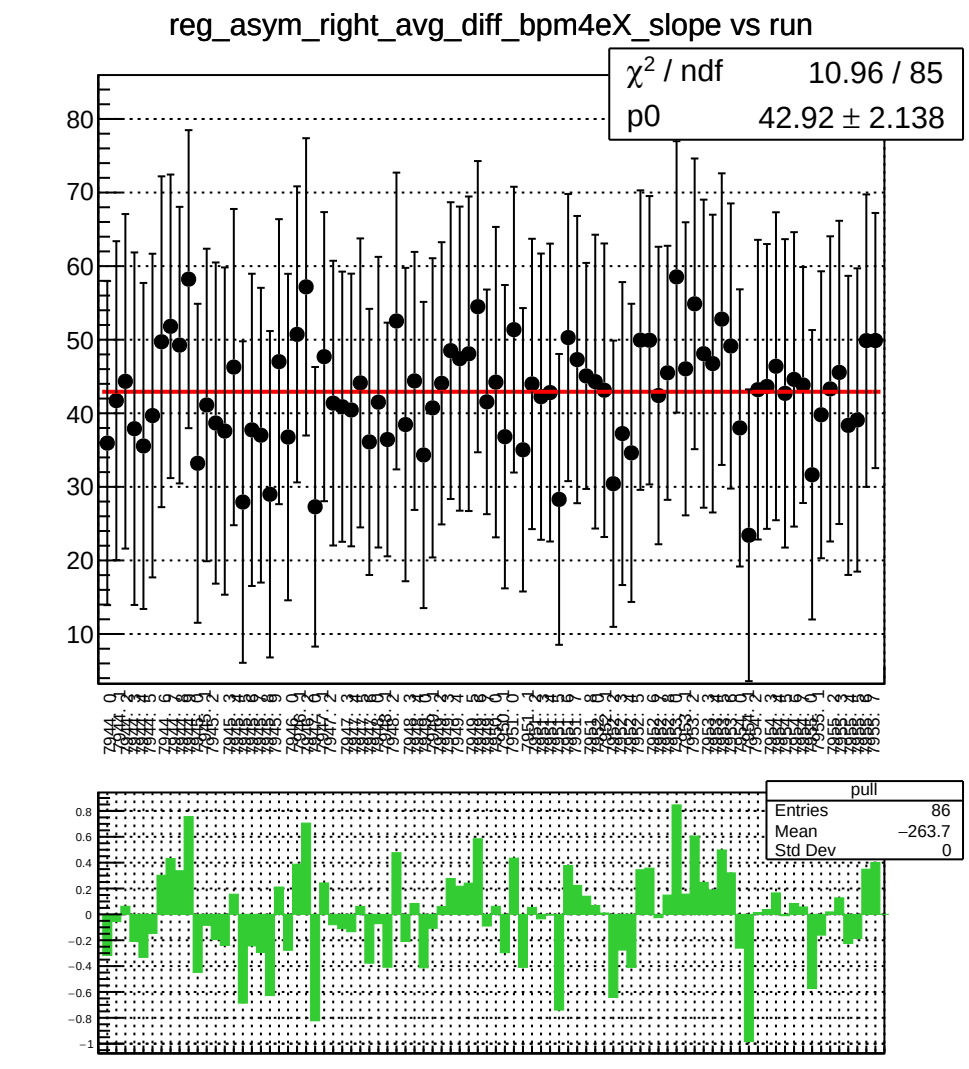

pull1D
Entries 86
Mean −0.02963
Std Dev 1.063

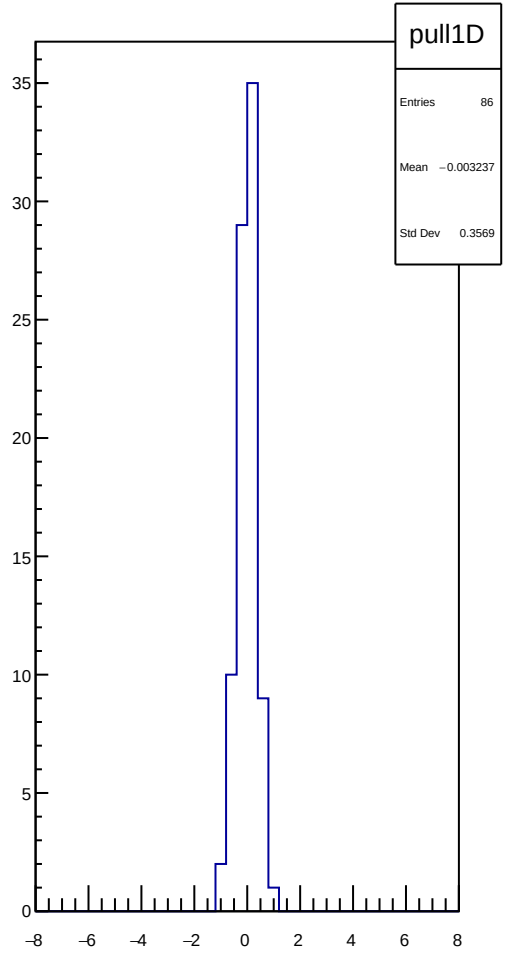

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 10.85 / 85
p0 −12.88 ± 2.408
pull
Entries 86
Mean −195.5
Std Dev 0

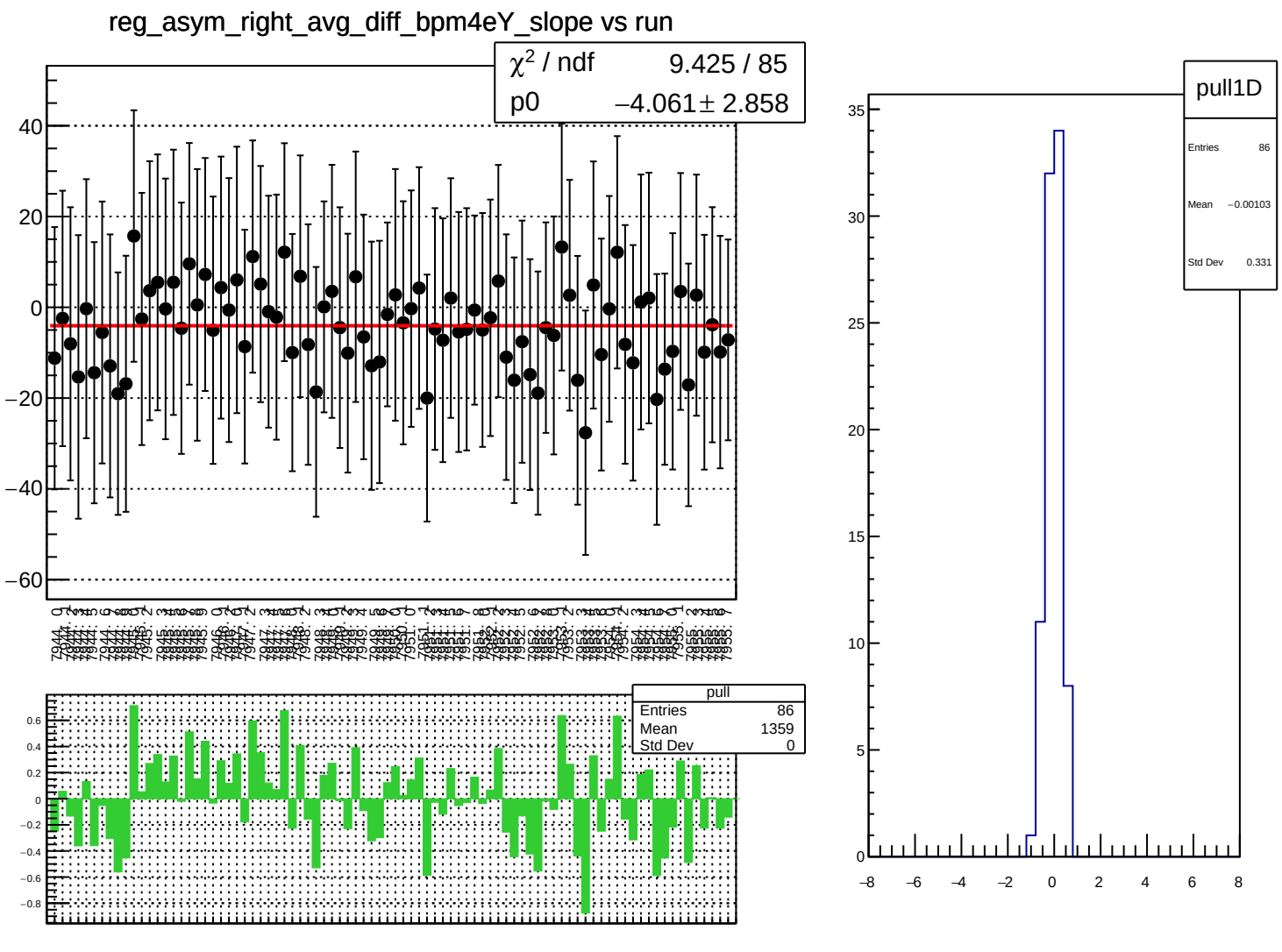

pull1D
Entries 86
Mean 0.004271
Std Dev 0.3551

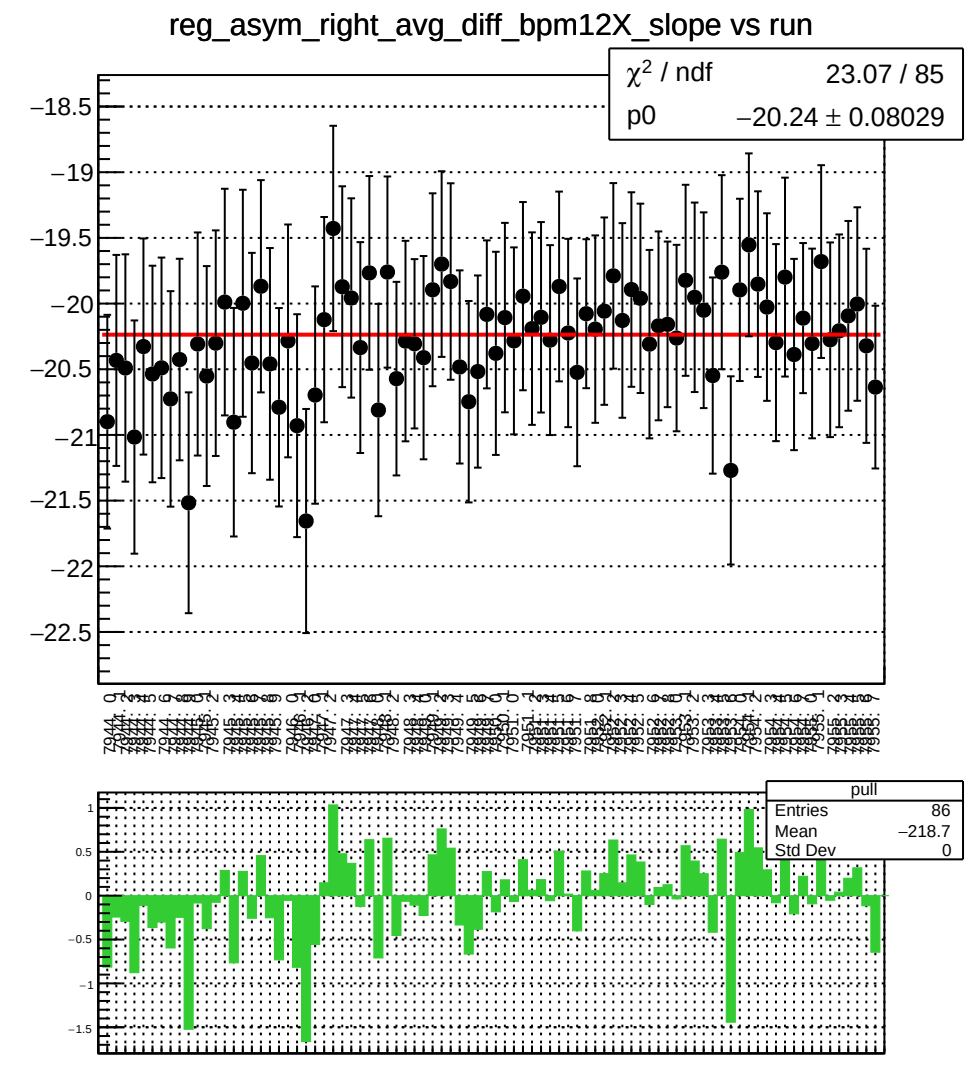

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.299 / 85
p0 12.23 ± 2.486
pull
Entries 86
Mean 304.9
Std Dev 0

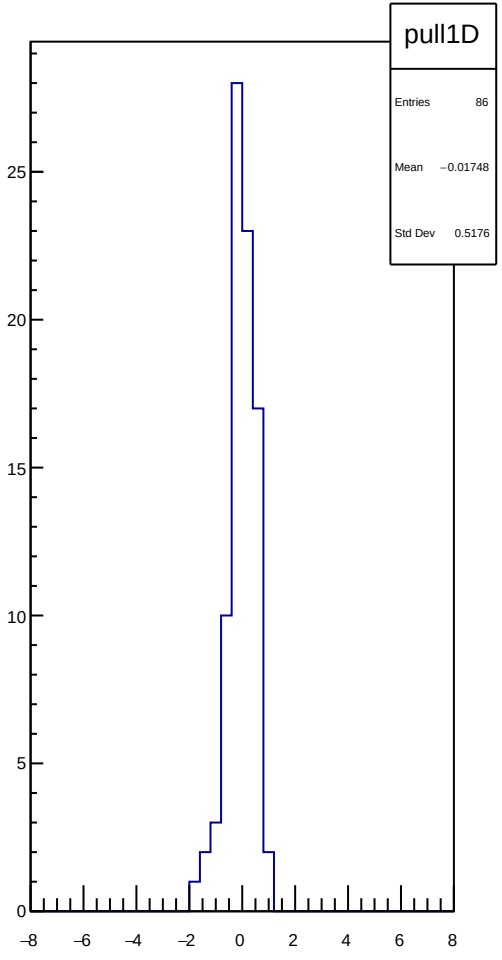

pull1D
Entries 86
Mean 0.002696
Std Dev 0.3288

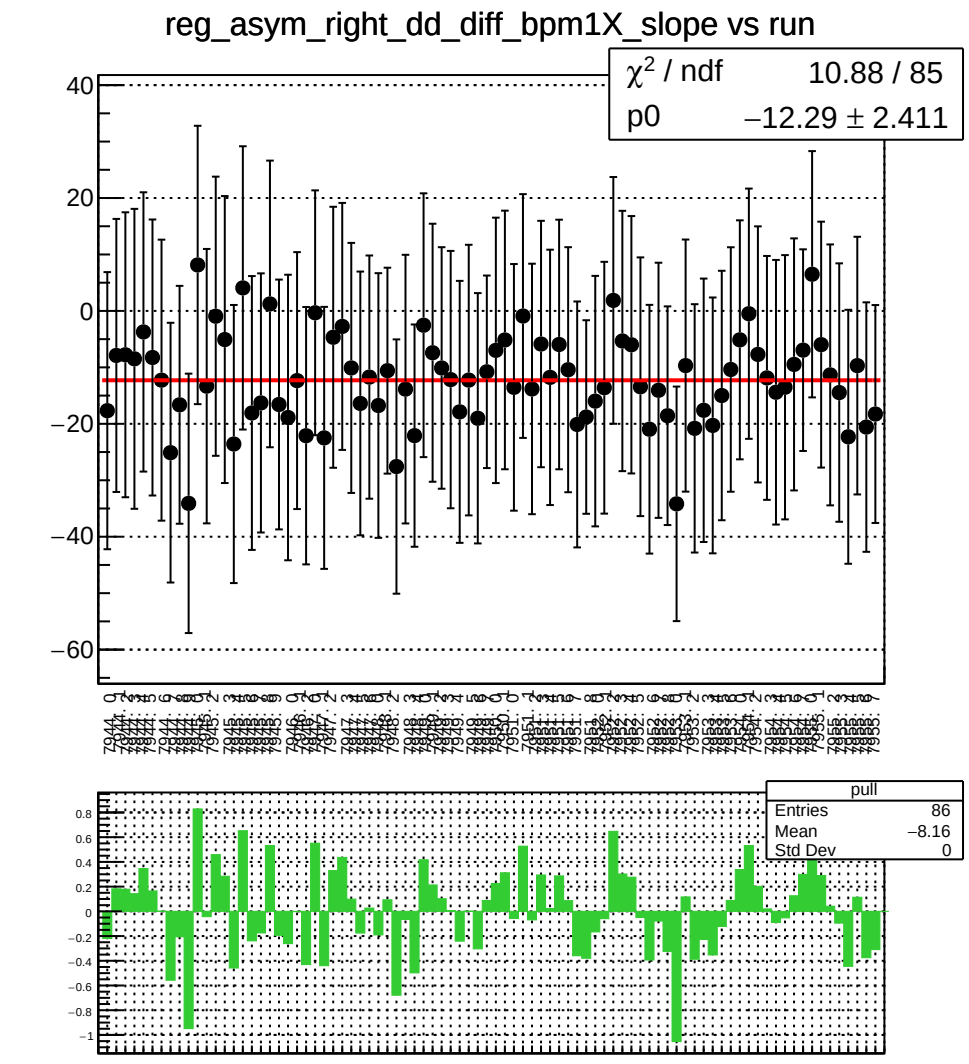

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.96 / 85
p0 42.92 ± 2.138
pull
Entries 86
Mean −263.7
Std Dev 0

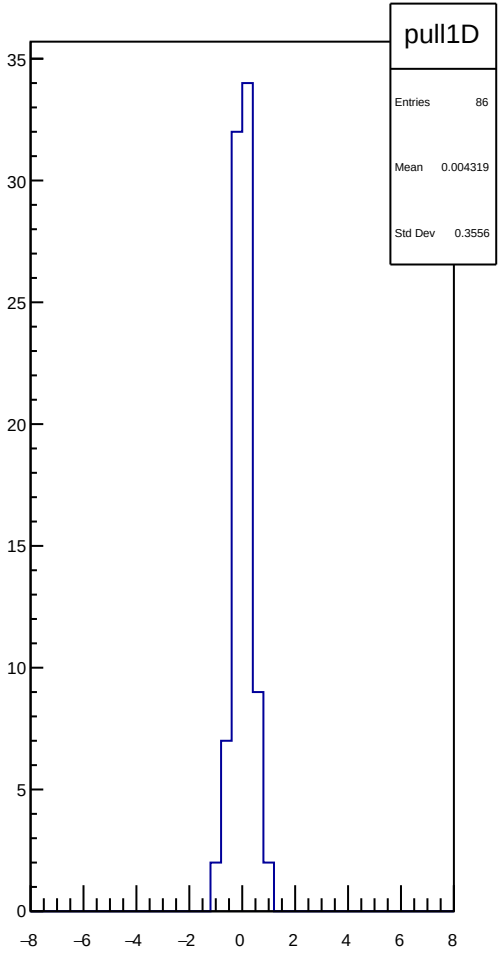

pull1D
Entries 86
Mean −0.003237
Std Dev 0.3569

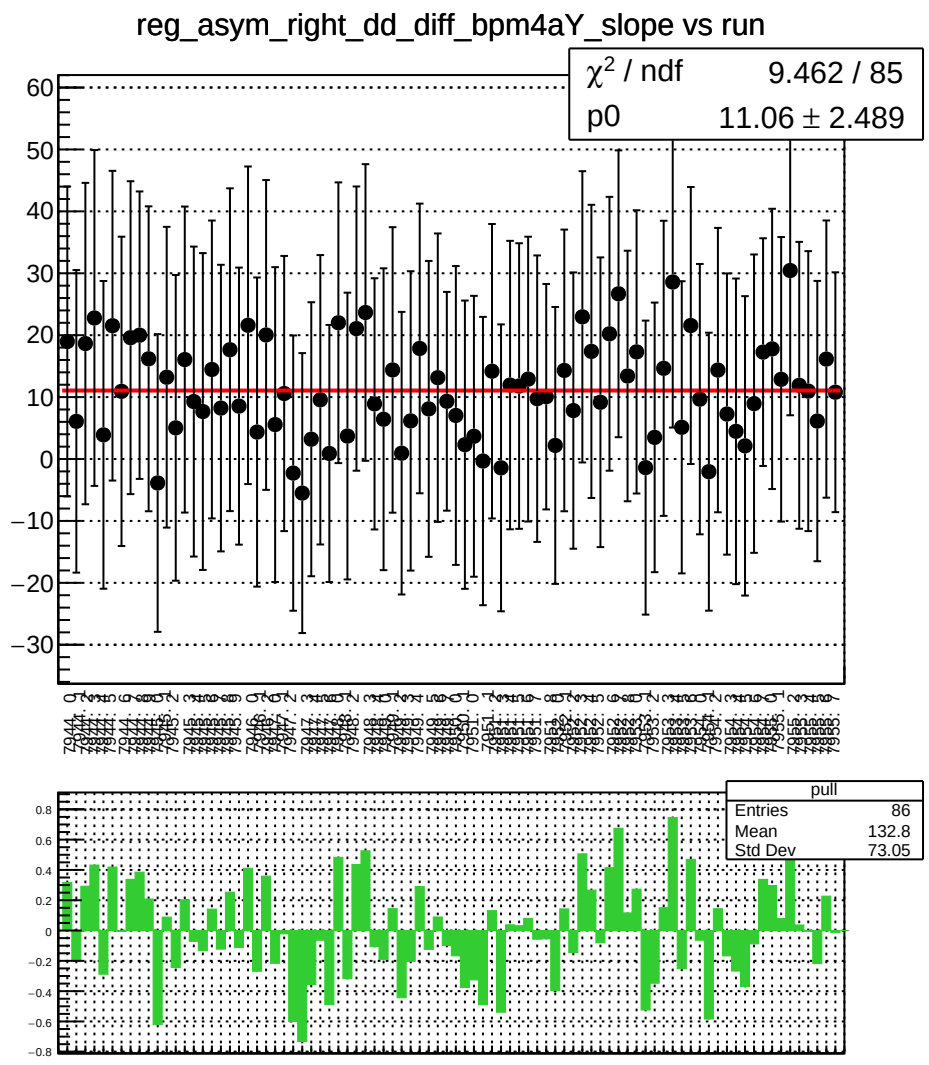

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.425 / 85
p0 −4.061 ± 2.858
pull
Entries 86
Mean 1359
Std Dev 0
pull1D
Entries 86
Mean −0.00103
Std Dev 0.331

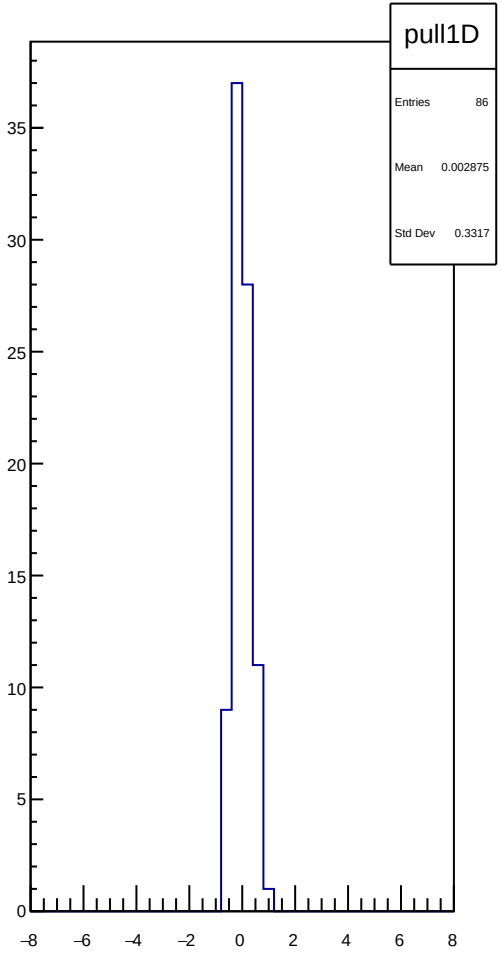

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 23.07 / 85
p0 −20.24 ± 0.08029
pull
Entries 86
Mean −218.7
Std Dev 0

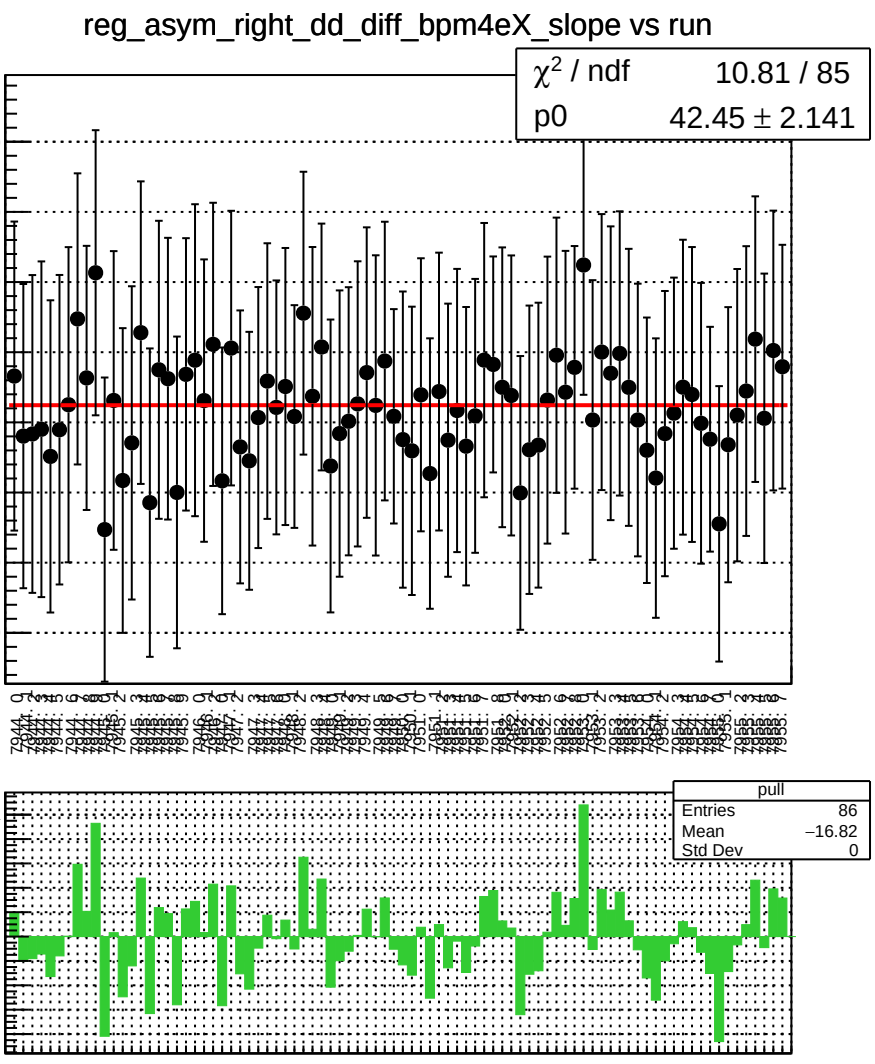

pull1D
Entries 86
Mean −0.01748
Std Dev 0.5176

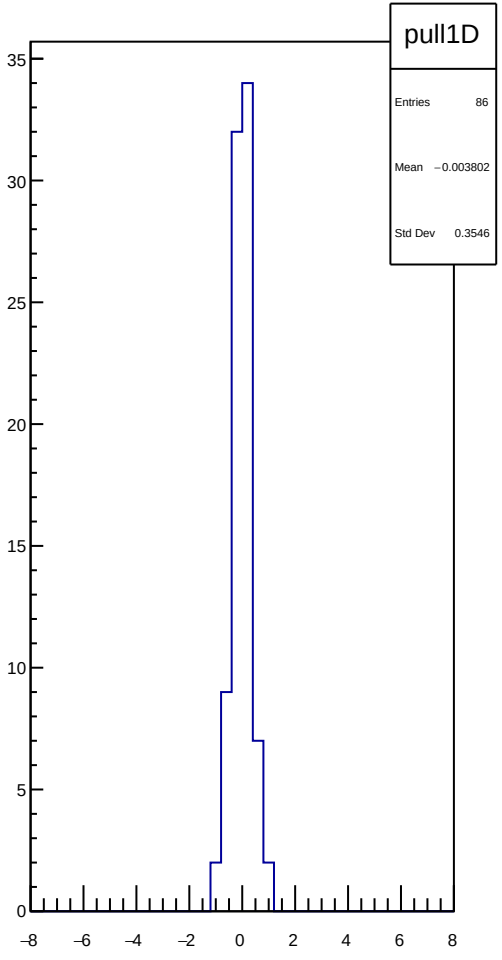

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 10.88 / 85
p0 −12.29 ± 2.411
pull
Entries 86
Mean −8.16
Std Dev 0

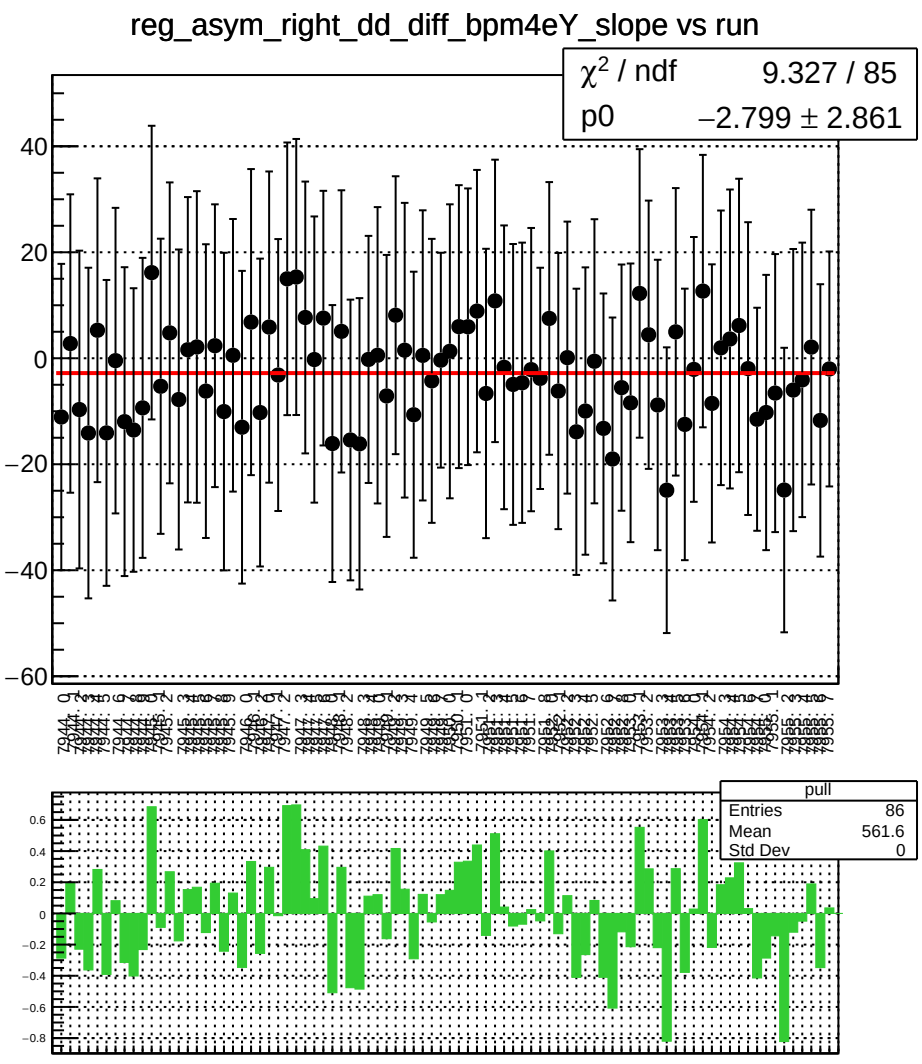

pull1D
Entries 86
Mean 0.004319
Std Dev 0.3556

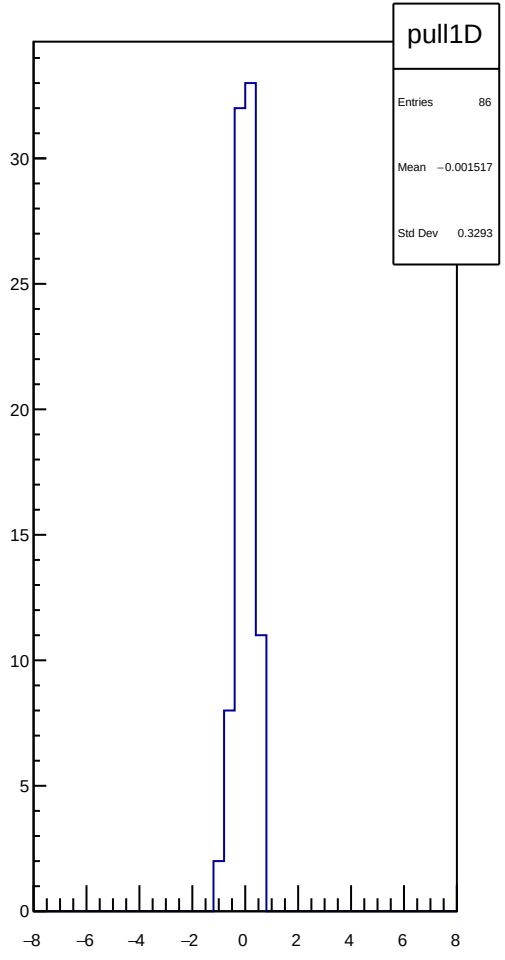

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.462 / 85
p0 11.06 ± 2.489
pull
Entries 86
Mean 132.8
Std Dev 73.05

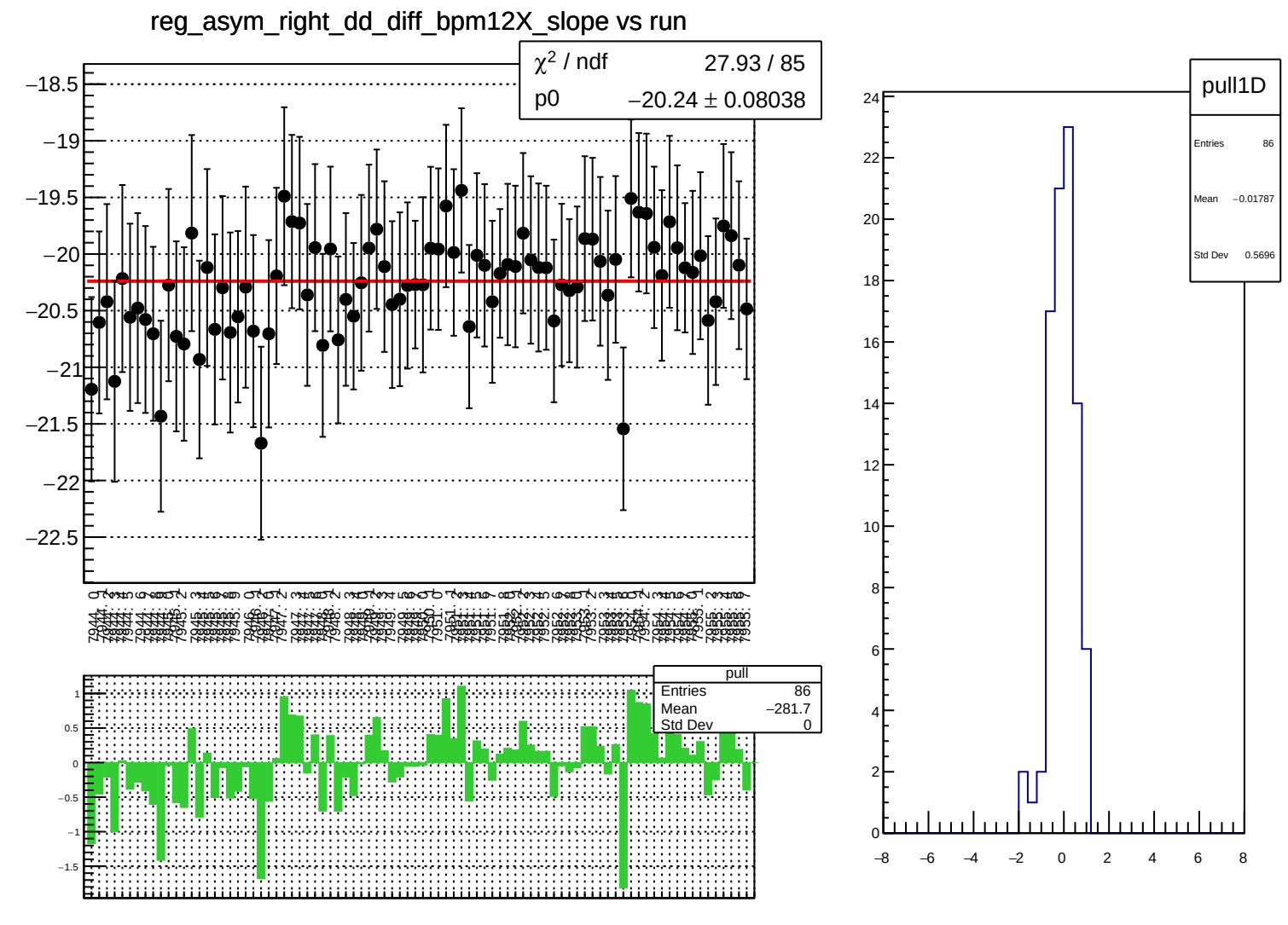

pull1D
Entries 86
Mean 0.002875
Std Dev 0.3317

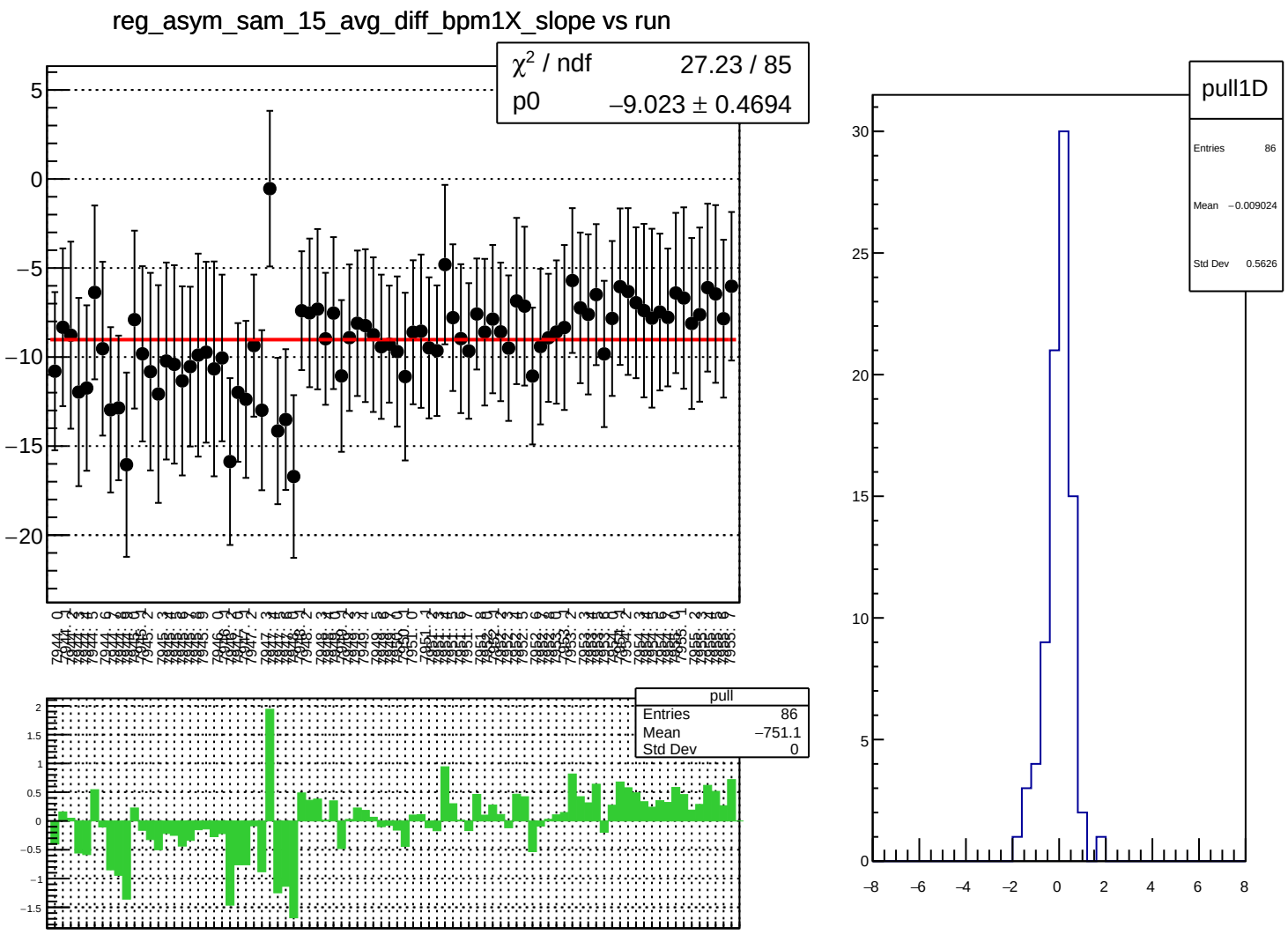

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.81 / 85
p0 42.45 ± 2.141
pull
Entries 86
Mean −16.82
Std Dev 0

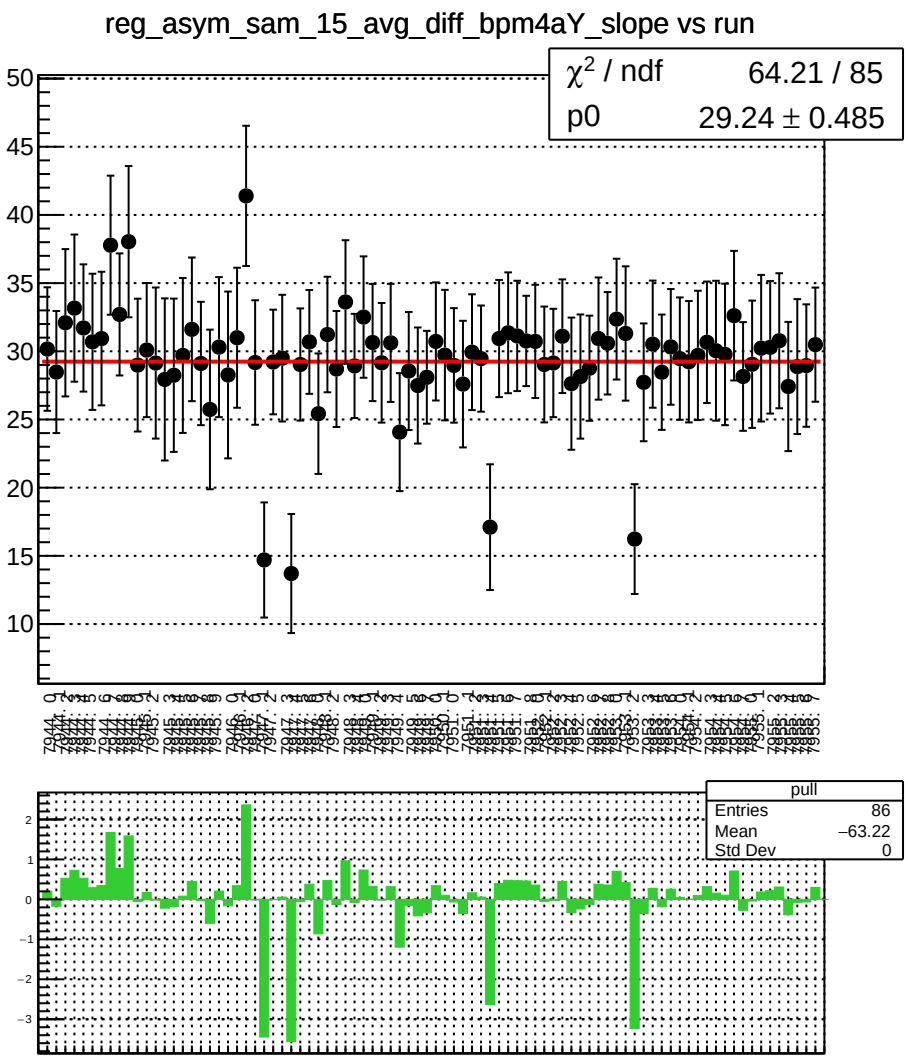

pull1D
Entries 86
Mean −0.003802
Std Dev 0.3546

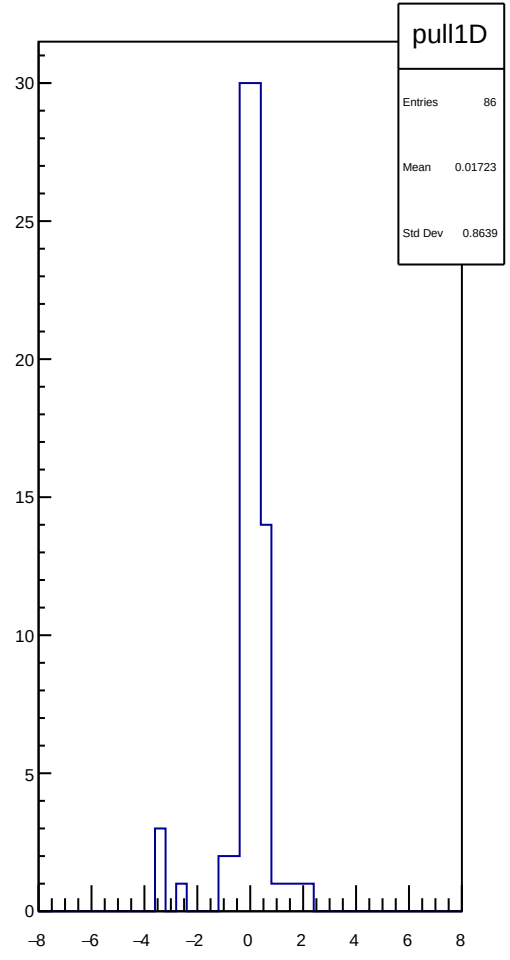

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.327 / 85
p0 −2.799 ± 2.861
pull
Entries 86
Mean 561.6
Std Dev 0

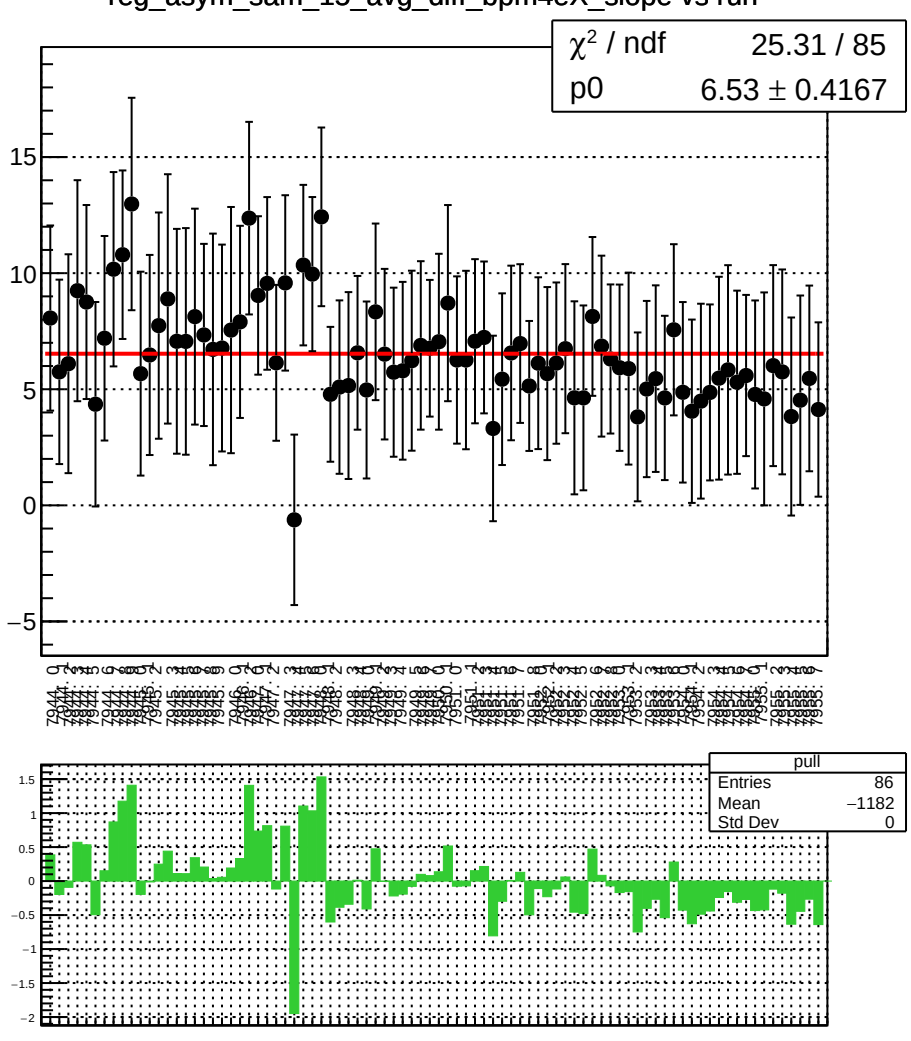

pull1D
Entries 86
Mean −0.001517
Std Dev 0.3293

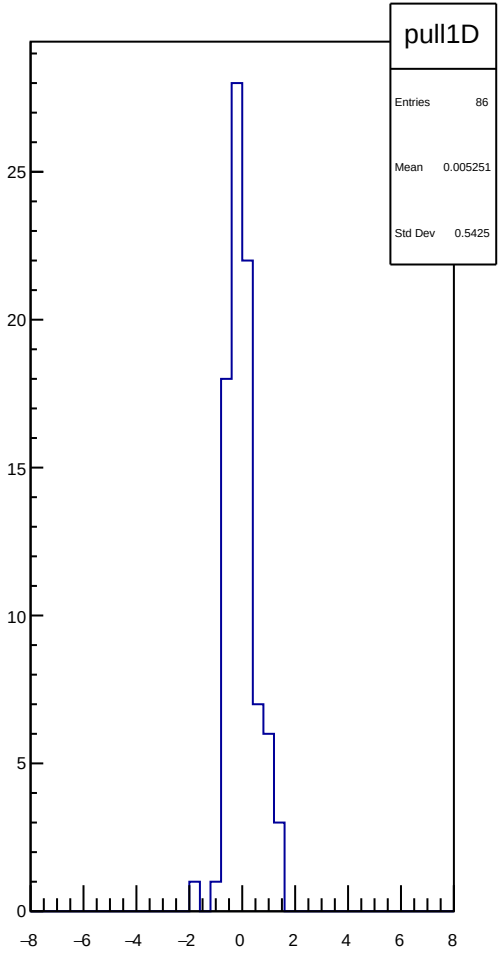

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 27.93 / 85
p0 −20.24 ± 0.08038
pull
Entries 86
Mean −281.7
Std Dev 0
pull1D
Entries 86
Mean −0.01787
Std Dev 0.5696

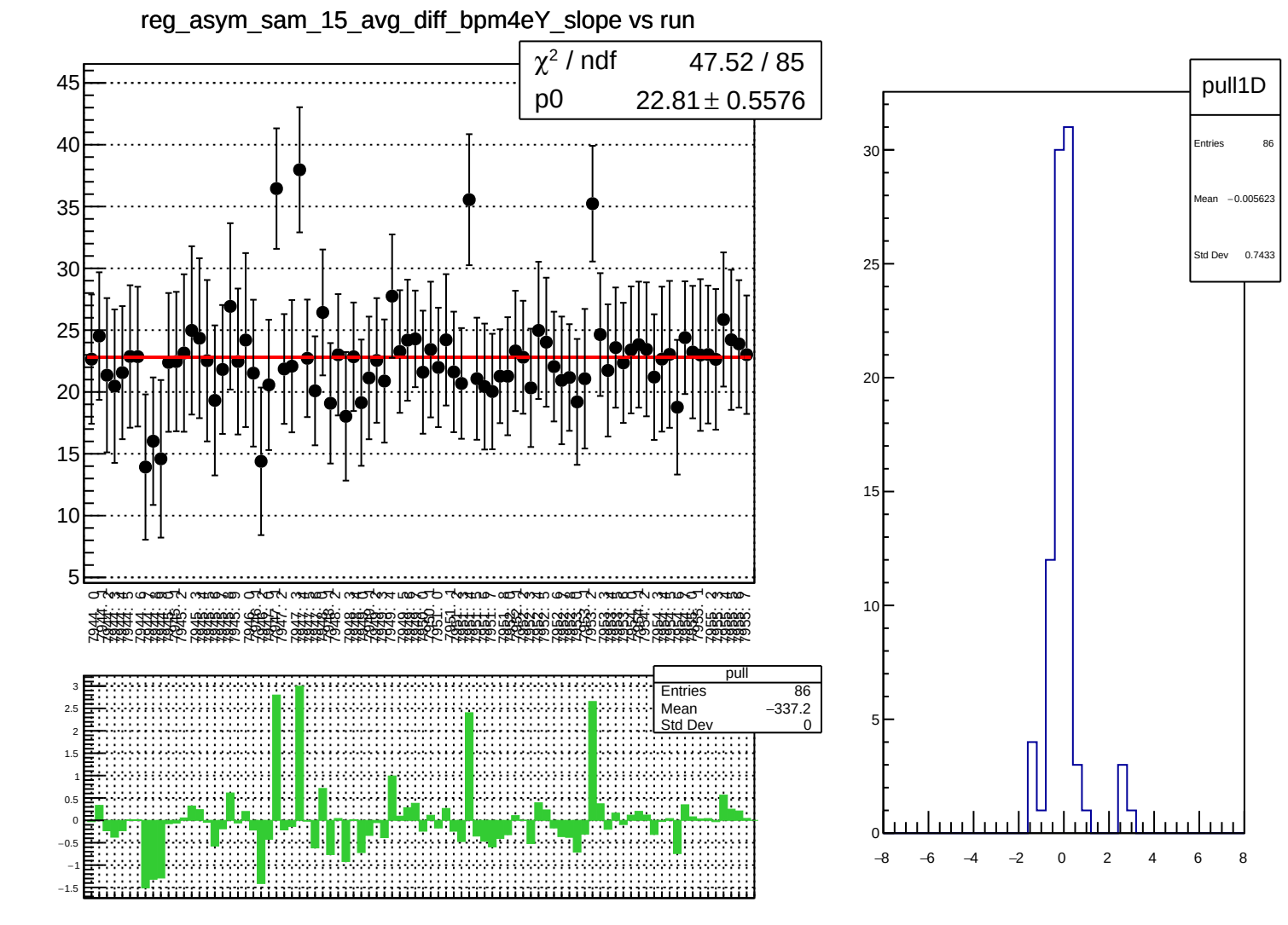

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 27.23 / 85
p0 −9.023 ± 0.4694
pull
Entries 86
Mean −751.1
Std Dev 0
pull1D
Entries 86
Mean −0.009024
Std Dev 0.5626

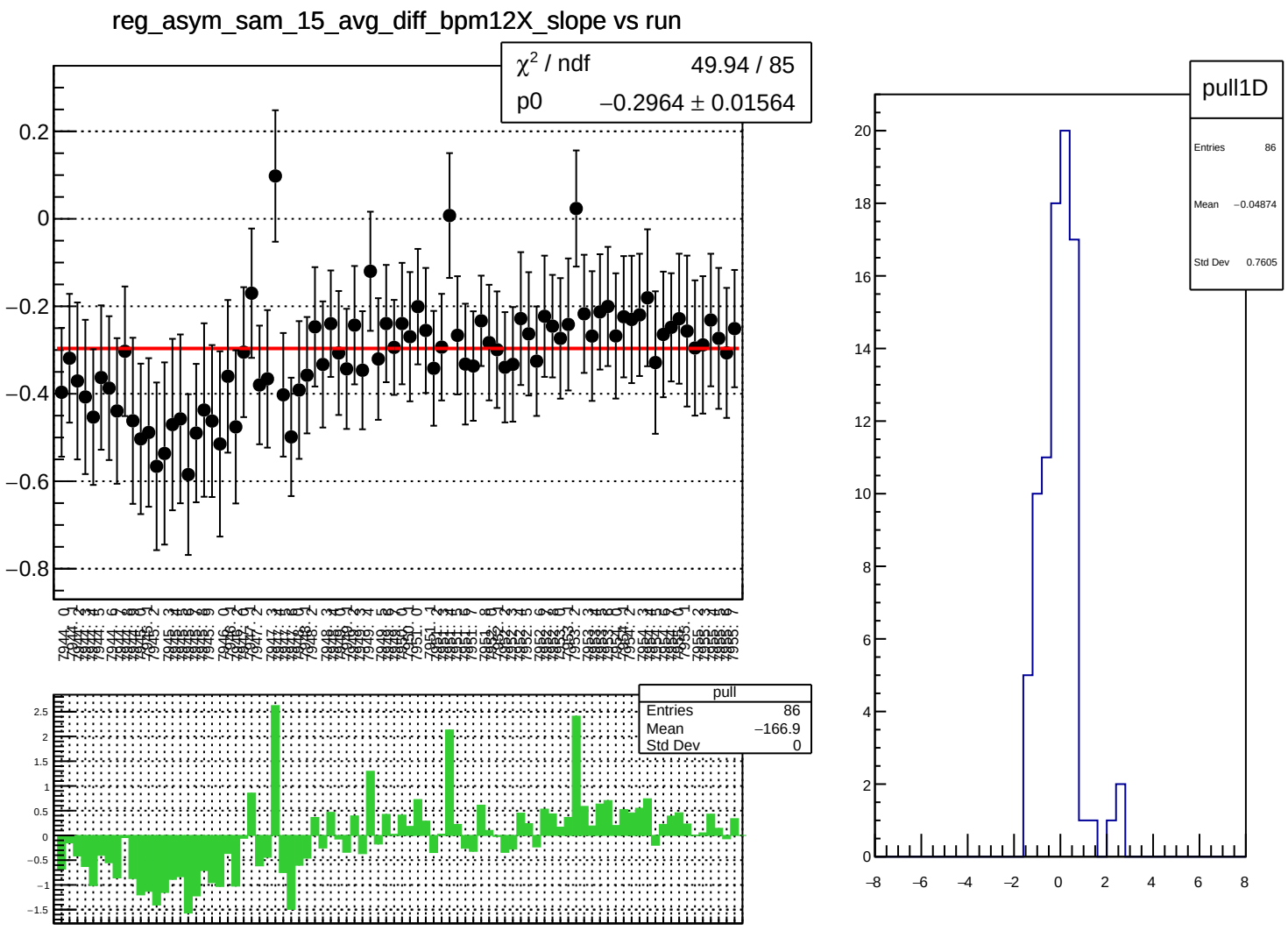

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 64.21 / 85
p0 29.24 ± 0.485
pull
Entries 86
Mean −63.22
Std Dev 0

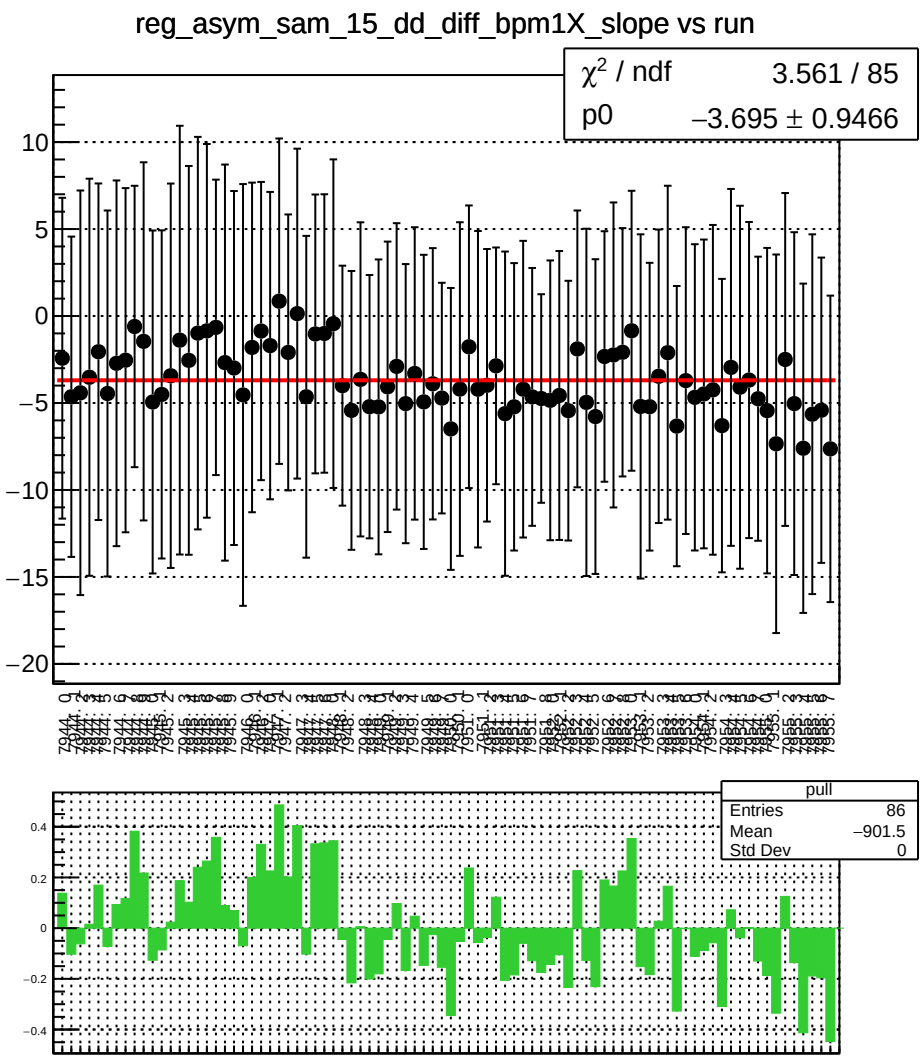

pull1D
Entries 86
Mean 0.01723
Std Dev 0.8639

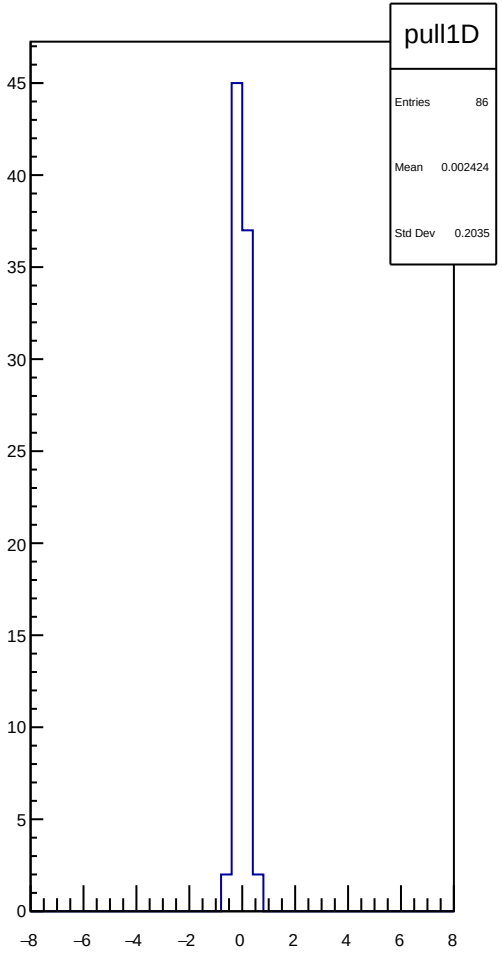

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.31 / 85
p0 6.53 ± 0.4167
pull
Entries 86
Mean −1182
Std Dev 0

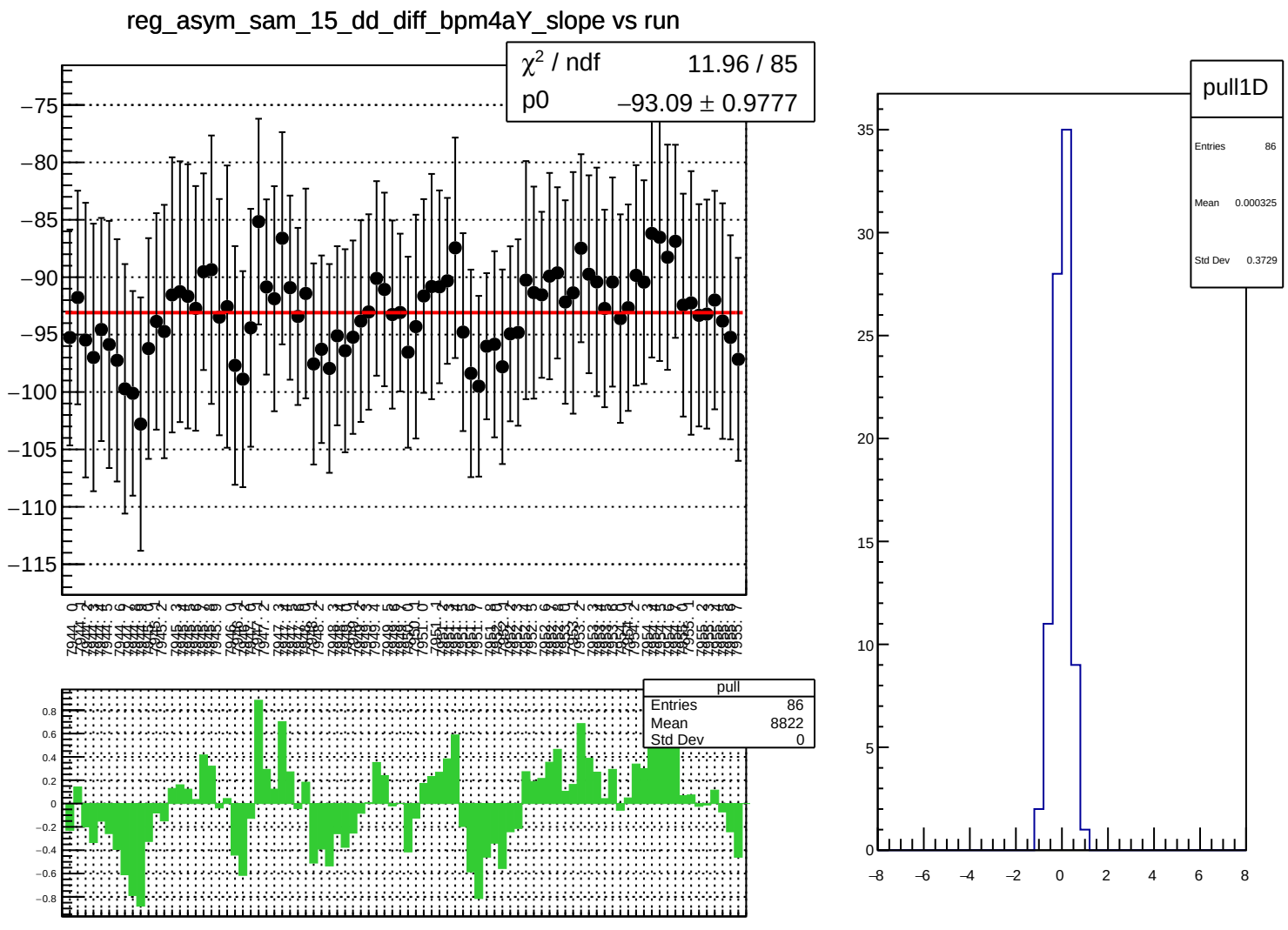

pull1D
Entries 86
Mean 0.005251
Std Dev 0.5425

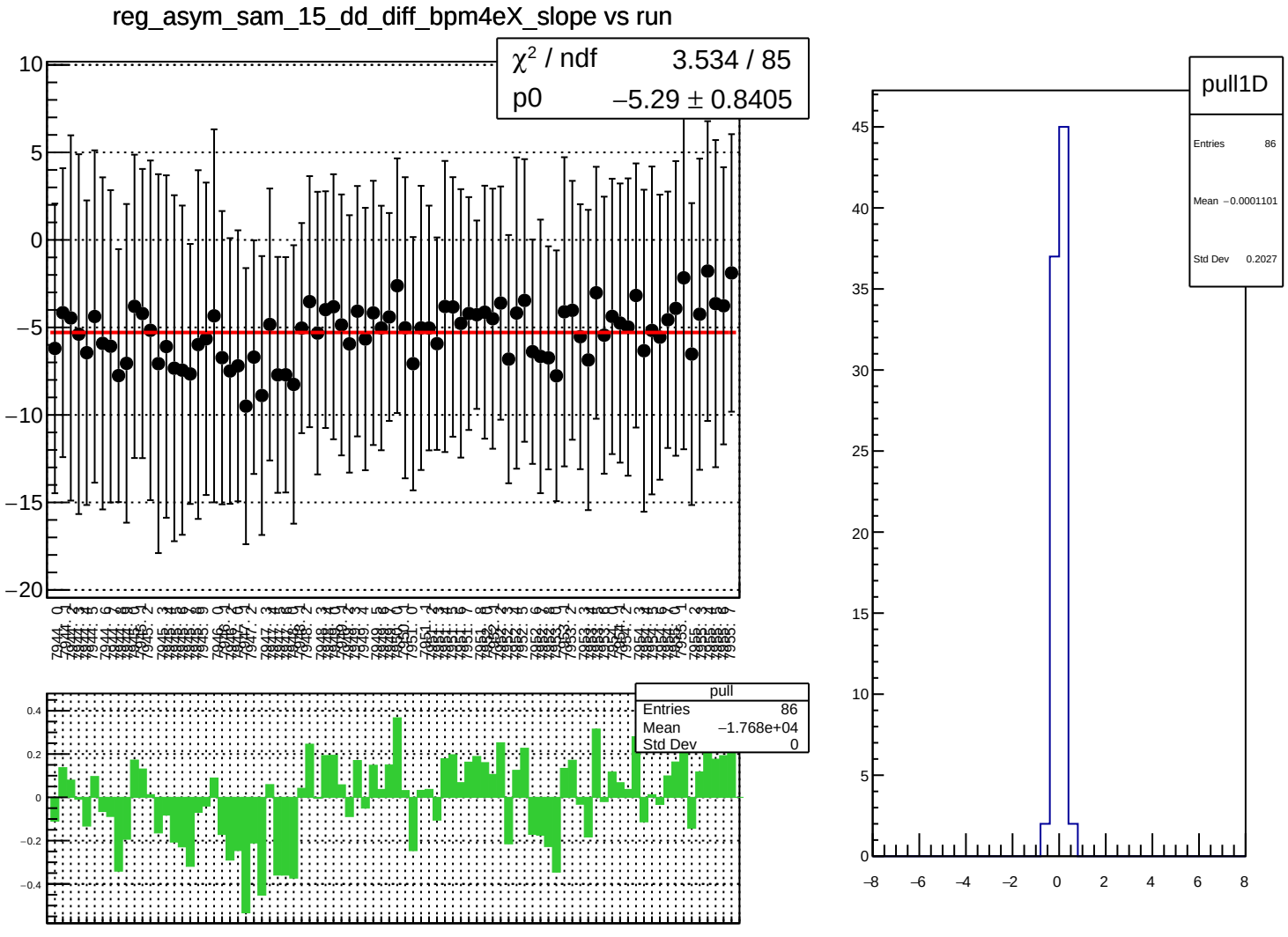

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.52 / 85
p0 22.81 ± 0.5576
pull
Entries 86
Mean −337.2
Std Dev 0
pull1D
Entries 86
Mean −0.005623
Std Dev 0.7433

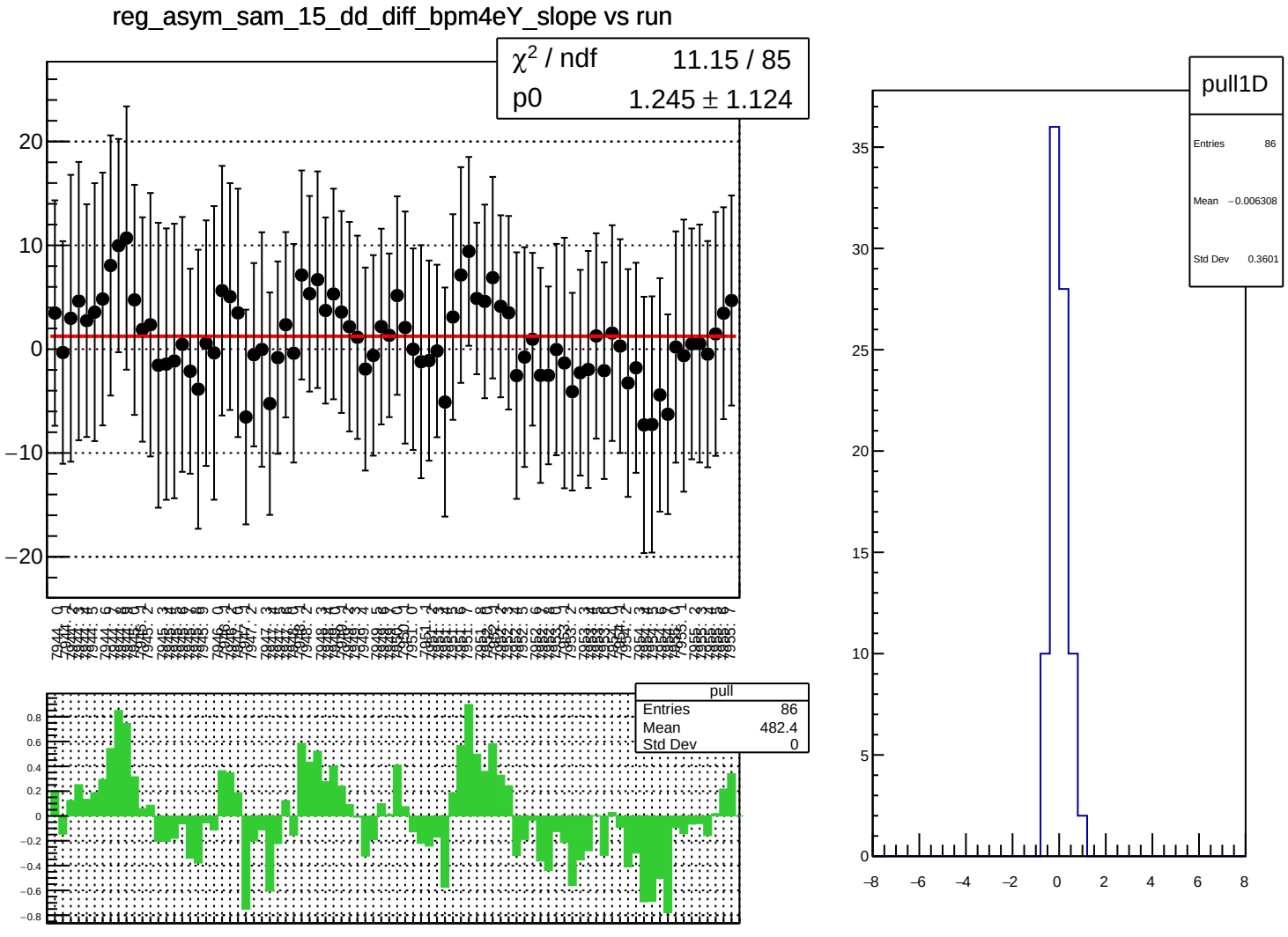

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 49.94 / 85
p0 −0.2964 ± 0.01564
pull
Entries 86
Mean −166.9
Std Dev 0
pull1D
Entries 86
Mean −0.04874
Std Dev 0.7605

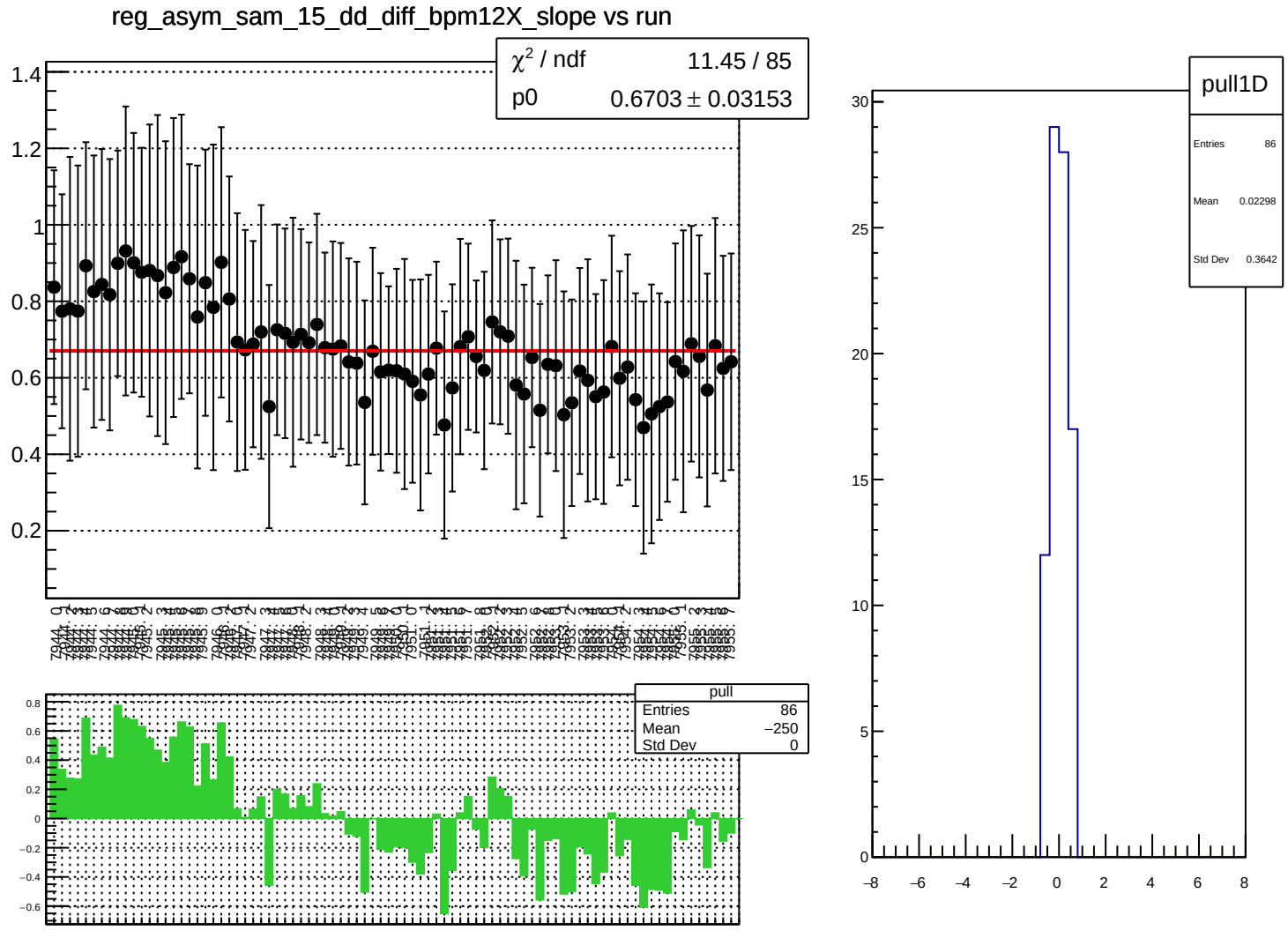

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.561 / 85
p0 −3.695 ± 0.9466
pull
Entries 86
Mean −901.5
Std Dev 0

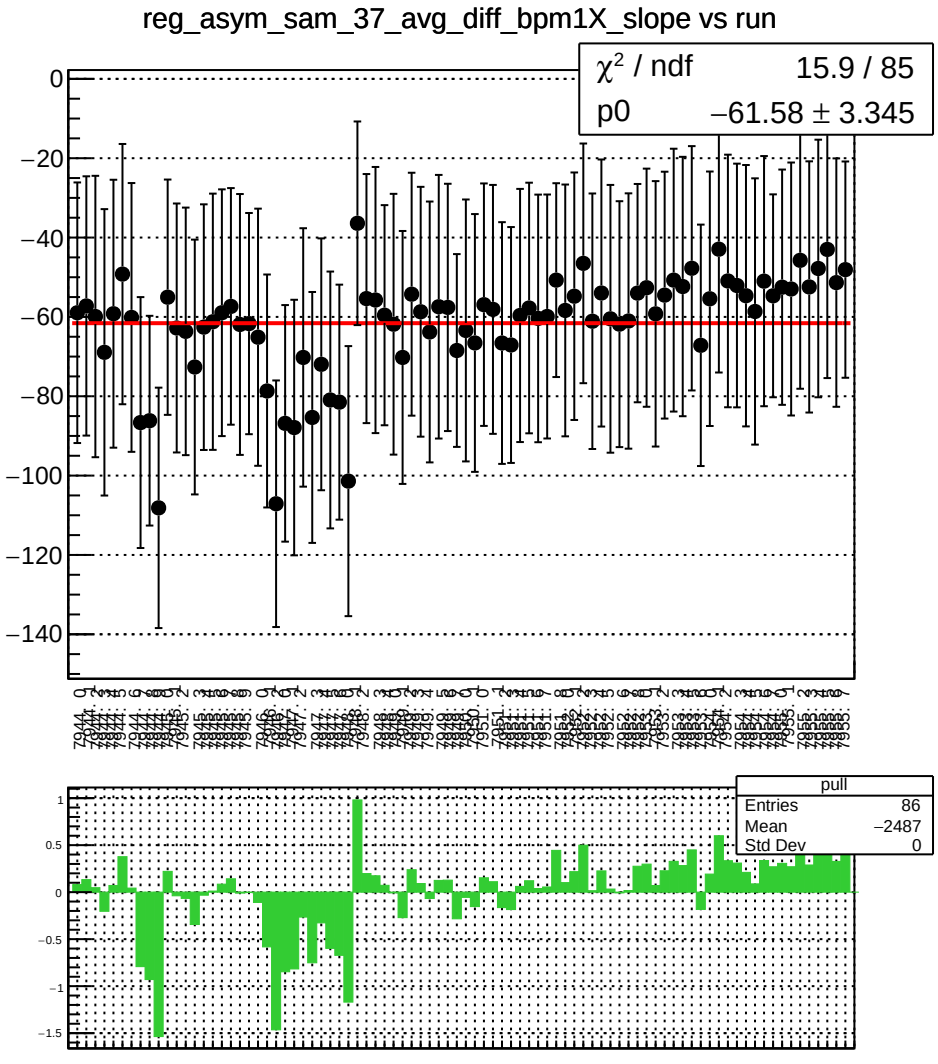

pull1D
Entries 86
Mean 0.002424
Std Dev 0.2035

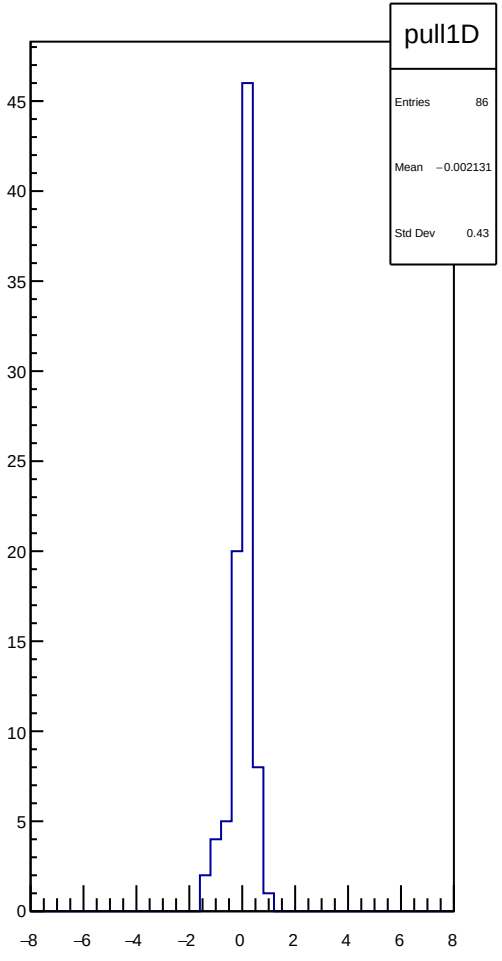

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.96 / 85
p0 −93.09 ± 0.9777
pull
Entries 86
Mean 8822
Std Dev 0
pull1D
Entries 86
Mean 0.000325
Std Dev 0.3729

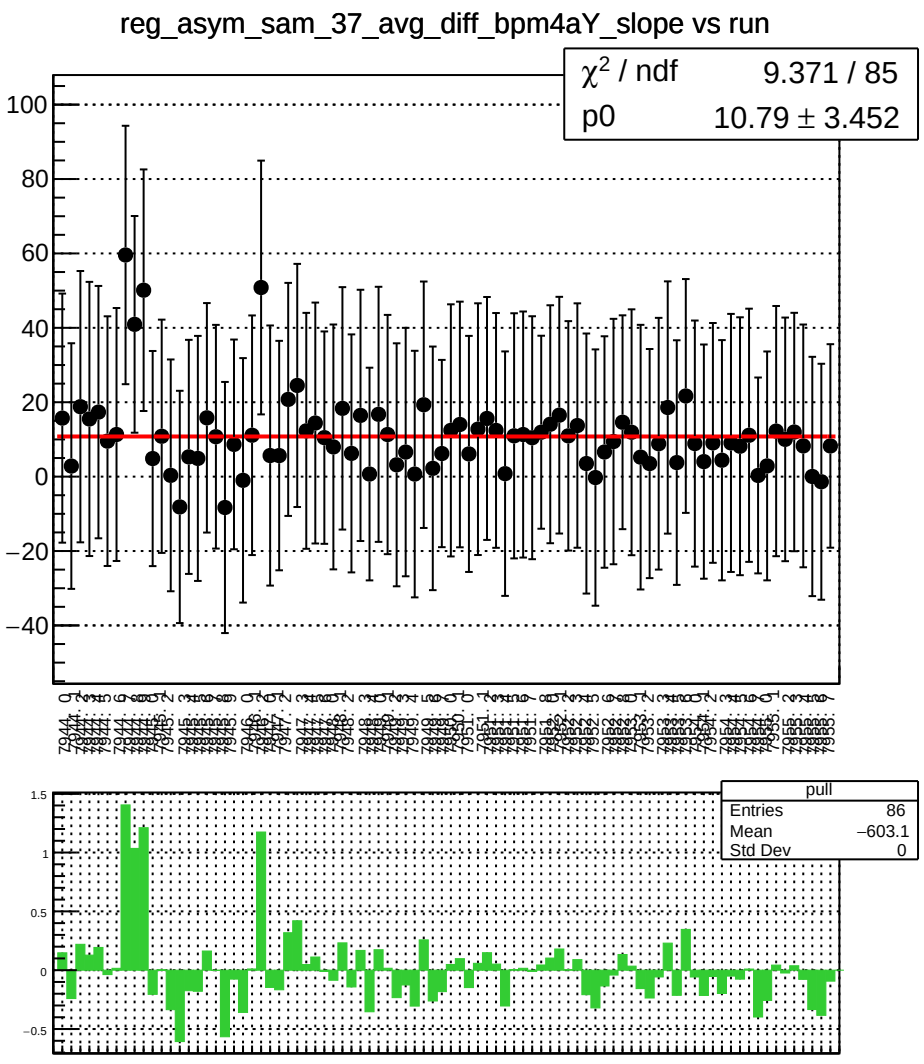

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.534 / 85
p0 −5.29 ± 0.8405
pull
Entries 86
Mean −1.768e+04
Std Dev 0
pull1D
Entries 86
Mean −0.0001101
Std Dev 0.2027

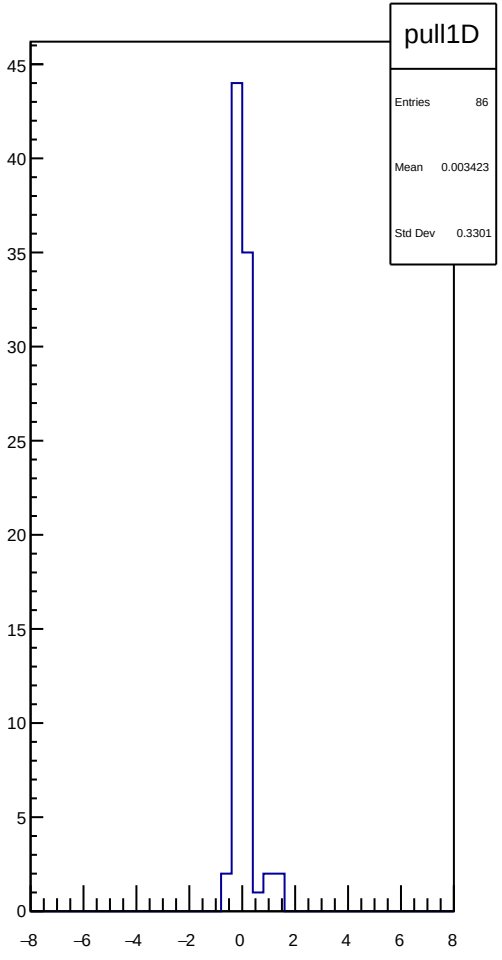

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.15 / 85
p0 1.245 ± 1.124
pull
Entries 86
Mean 482.4
Std Dev 0
pull1D
Entries 86
Mean −0.006308
Std Dev 0.3601

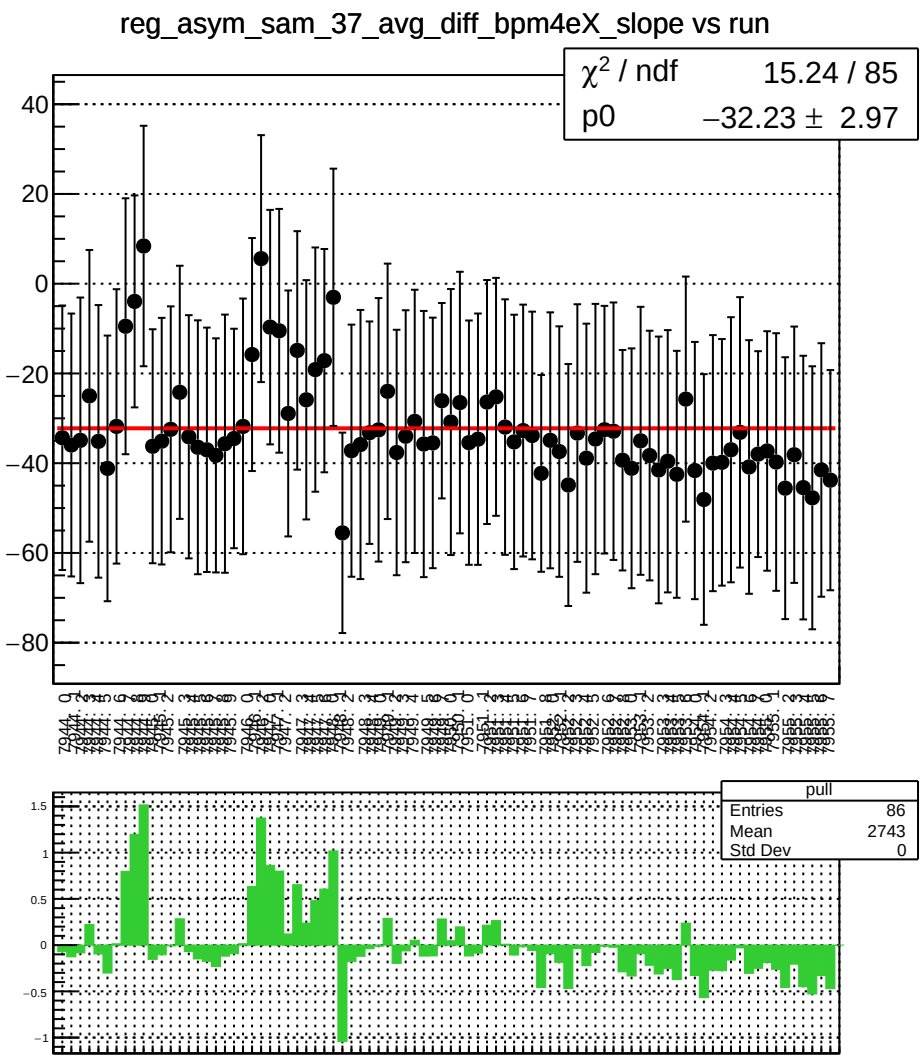

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 11.45 / 85
p0 0.6703 ± 0.03153
pull
Entries 86
Mean −250
Std Dev 0
pull1D
Entries 86
Mean 0.02298
Std Dev 0.3642

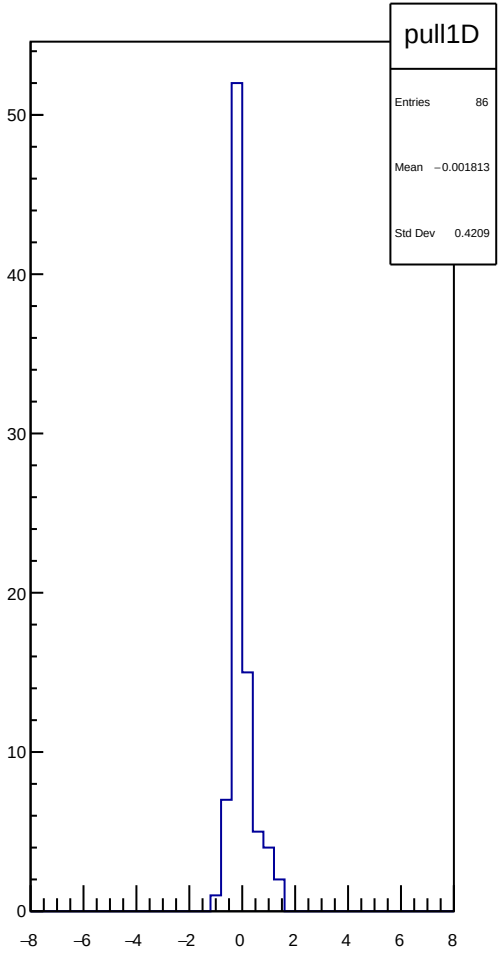

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 15.9 / 85
p0 −61.58 ± 3.345
pull
Entries 86
Mean −2487
Std Dev 0

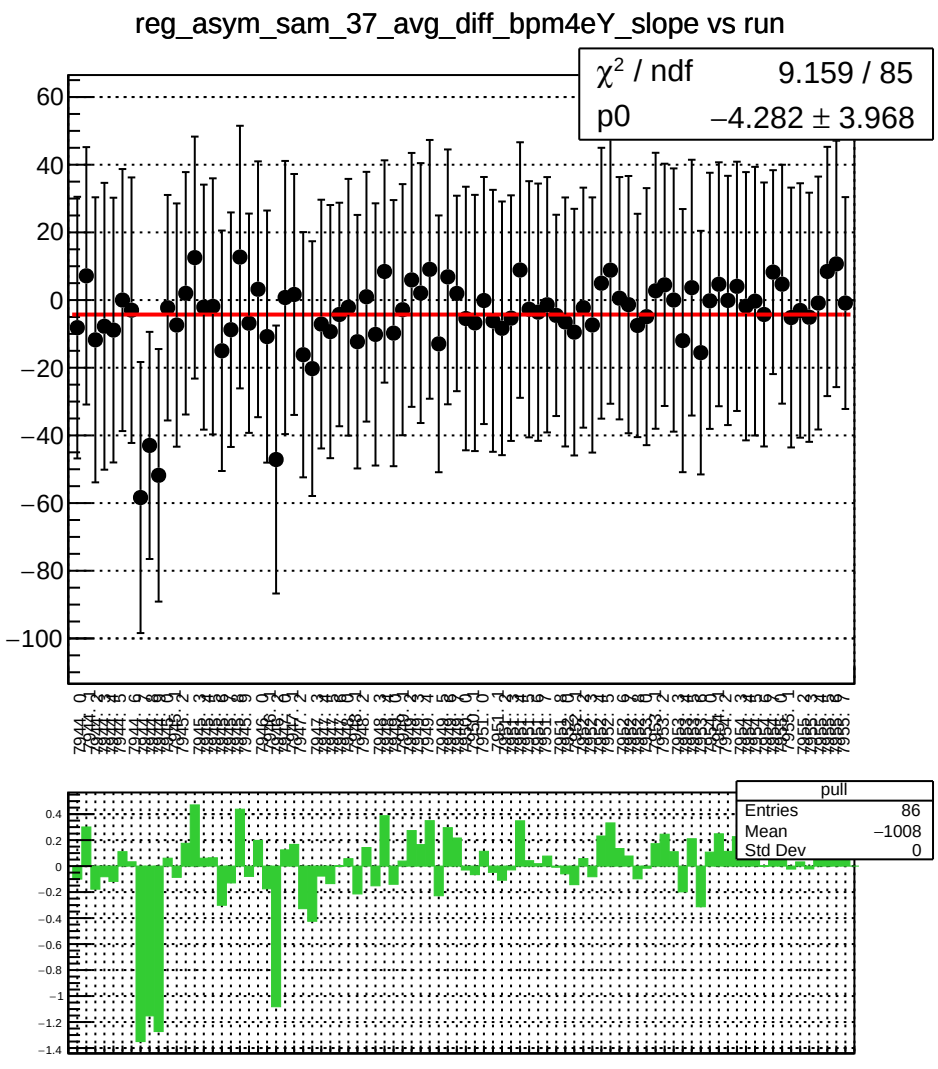

pull1D
Entries 86
Mean −0.002131
Std Dev 0.43

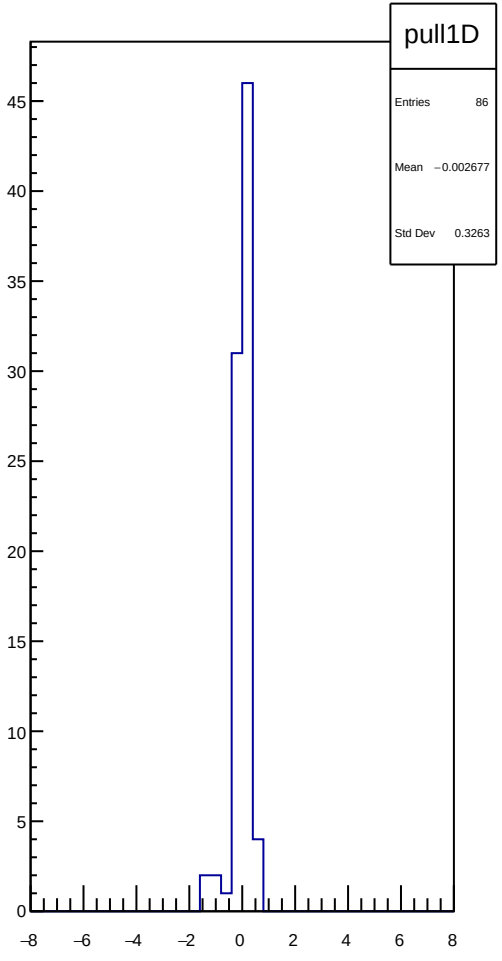

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.371 / 85
p0 10.79 ± 3.452
pull
Entries 86
Mean −603.1
Std Dev 0

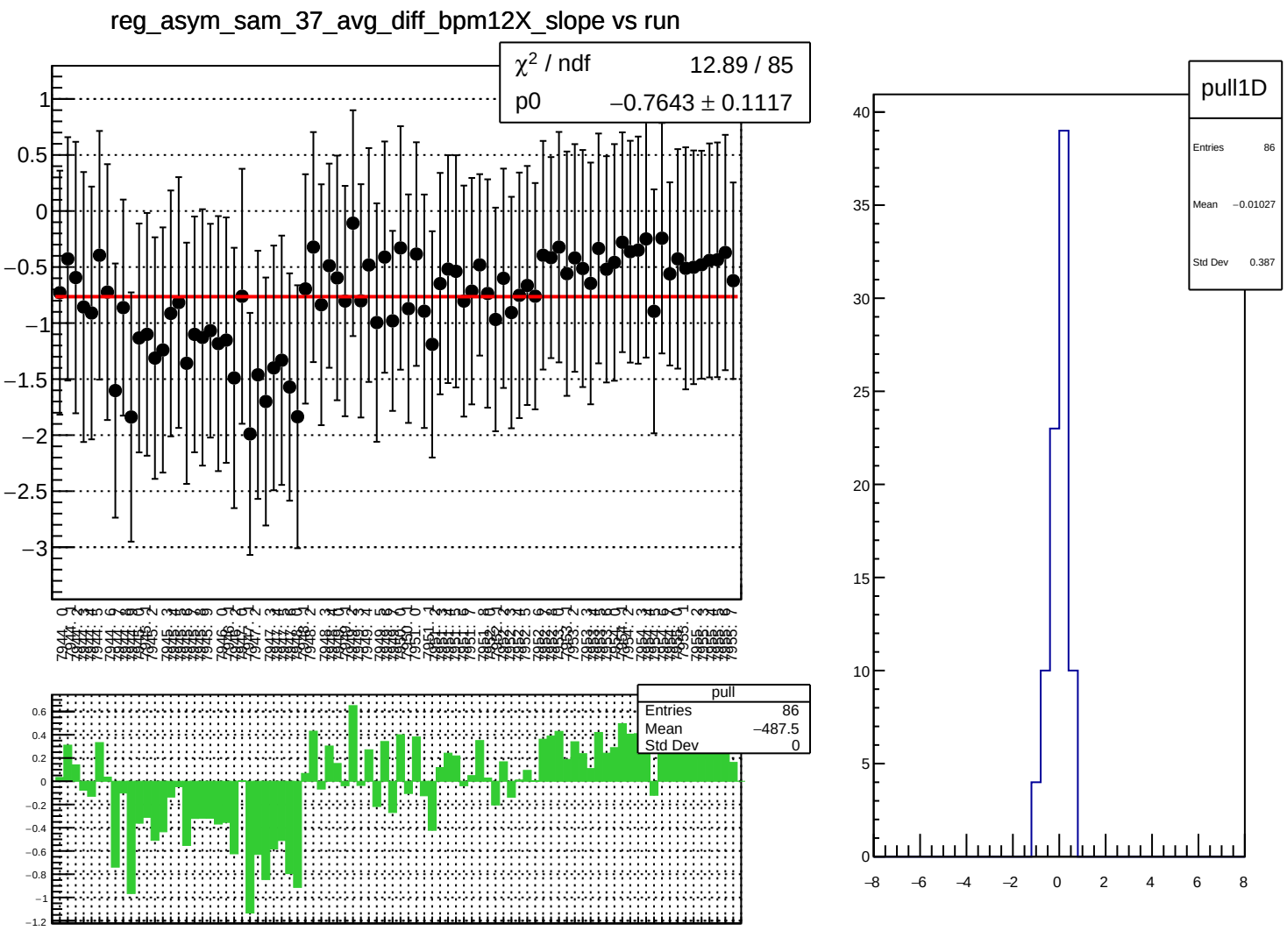

pull1D
Entries 86
Mean 0.003423
Std Dev 0.3301

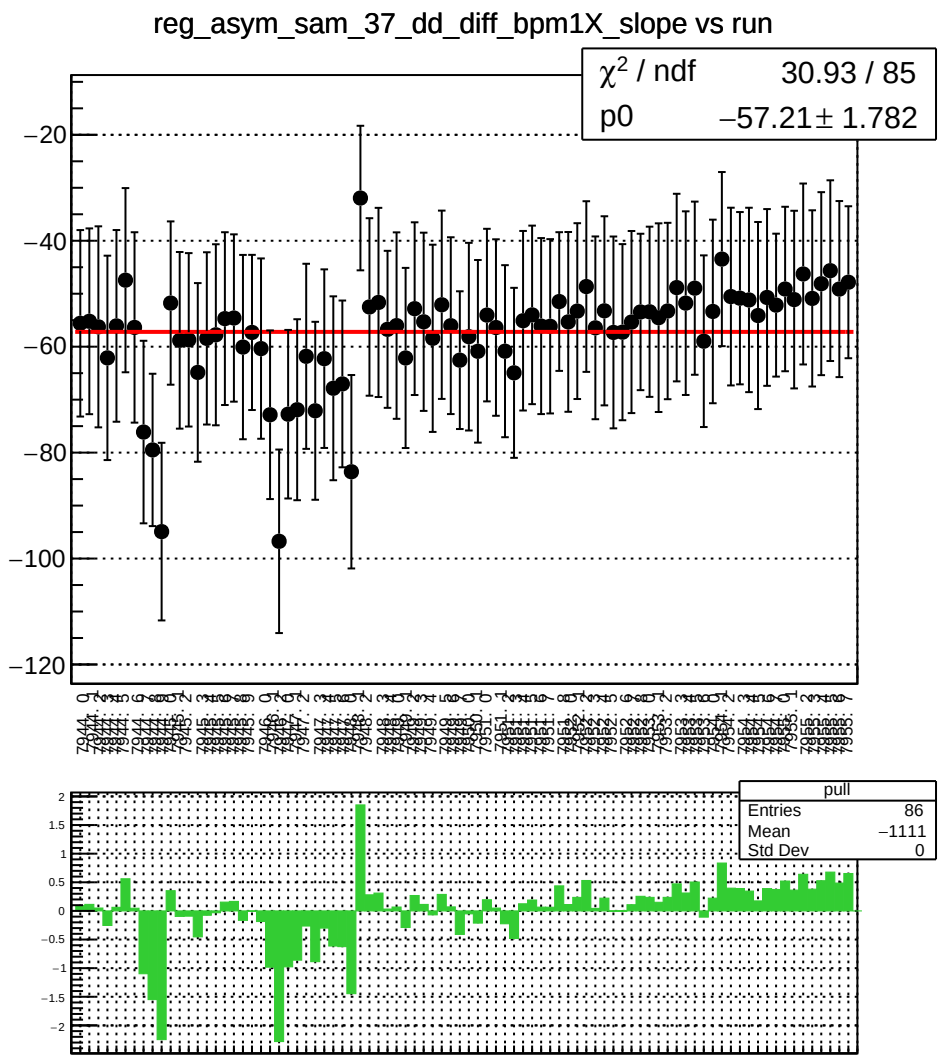

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.24 / 85
p0 −32.23 ± 2.97
pull
Entries 86
Mean 2743
Std Dev 0

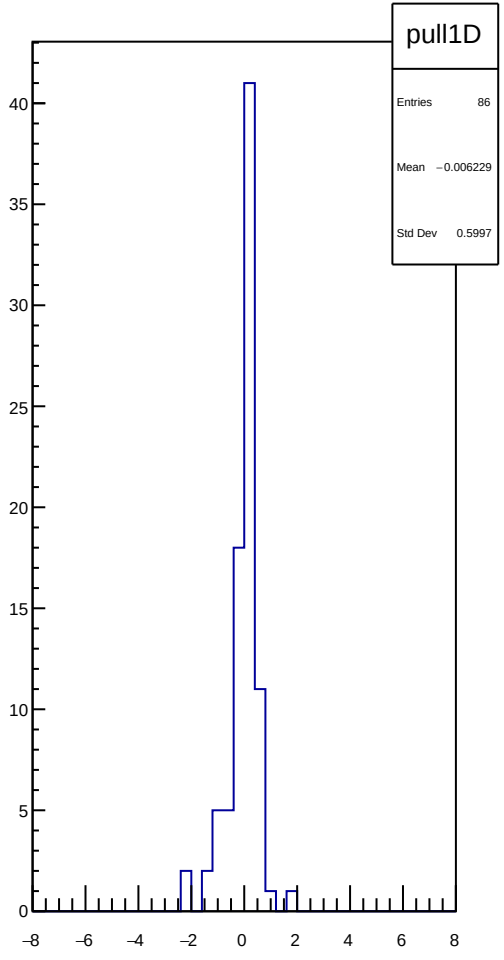

pull1D
Entries 86
Mean −0.001813
Std Dev 0.4209

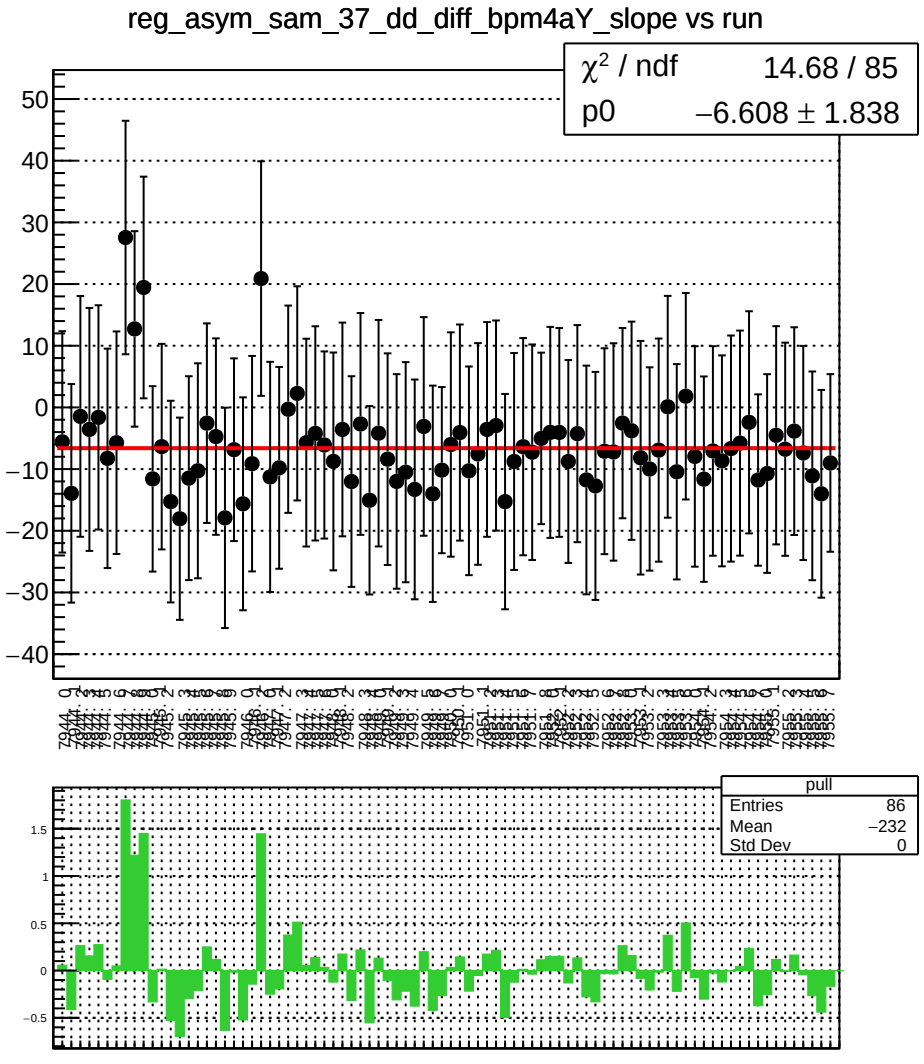

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.159 / 85
p0 −4.282 ± 3.968
pull
Entries 86
Mean −1008
Std Dev 0

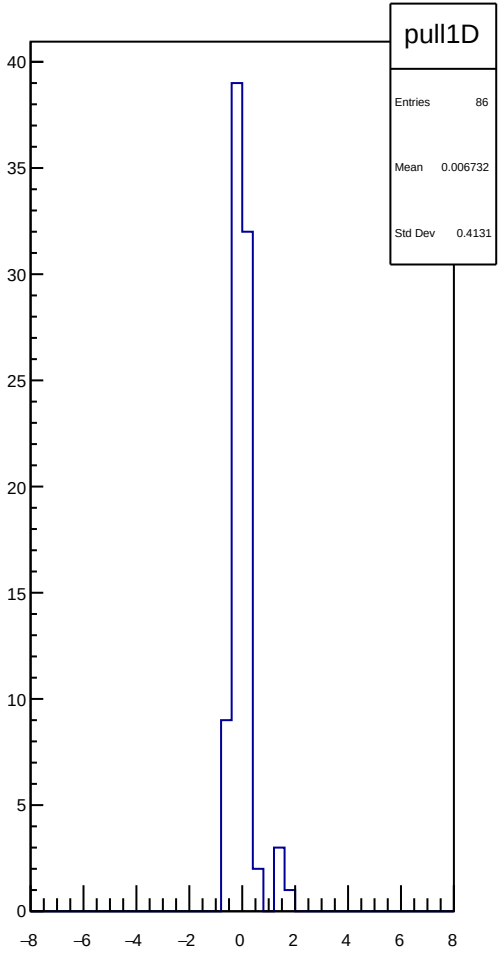

pull1D
Entries 86
Mean −0.002677
Std Dev 0.3263

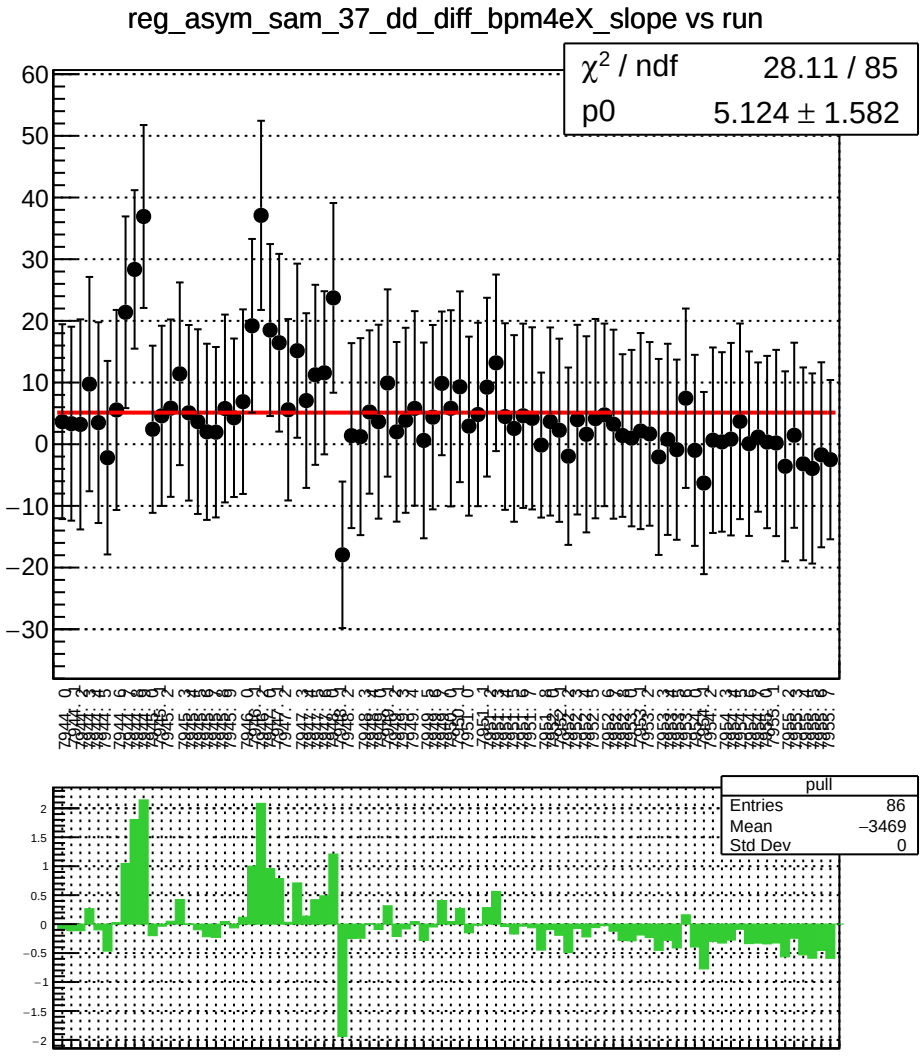

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 12.89 / 85
p0 −0.7643 ± 0.1117
pull
Entries 86
Mean −487.5
Std Dev 0
pull1D
Entries 86
Mean −0.01027
Std Dev 0.387

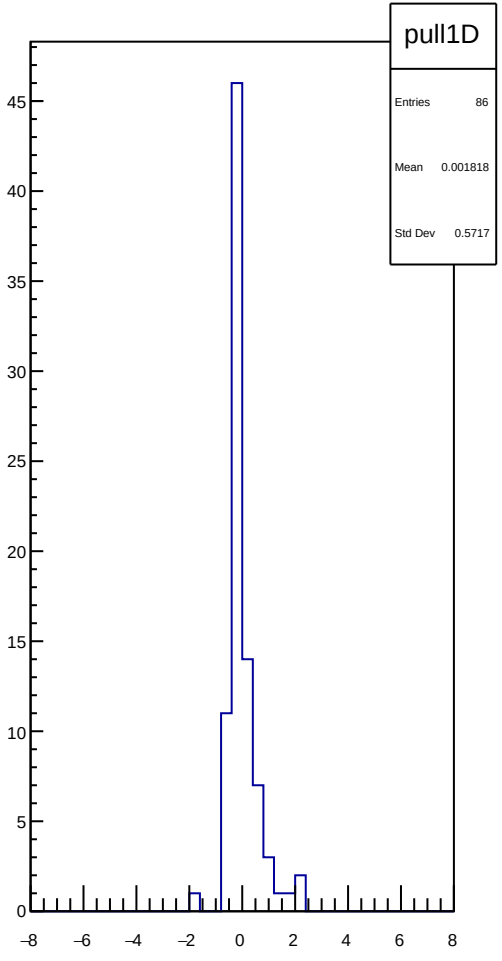

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 30.93 / 85
p0 −57.21± 1.782
pull
Entries 86
Mean −1111
Std Dev 0

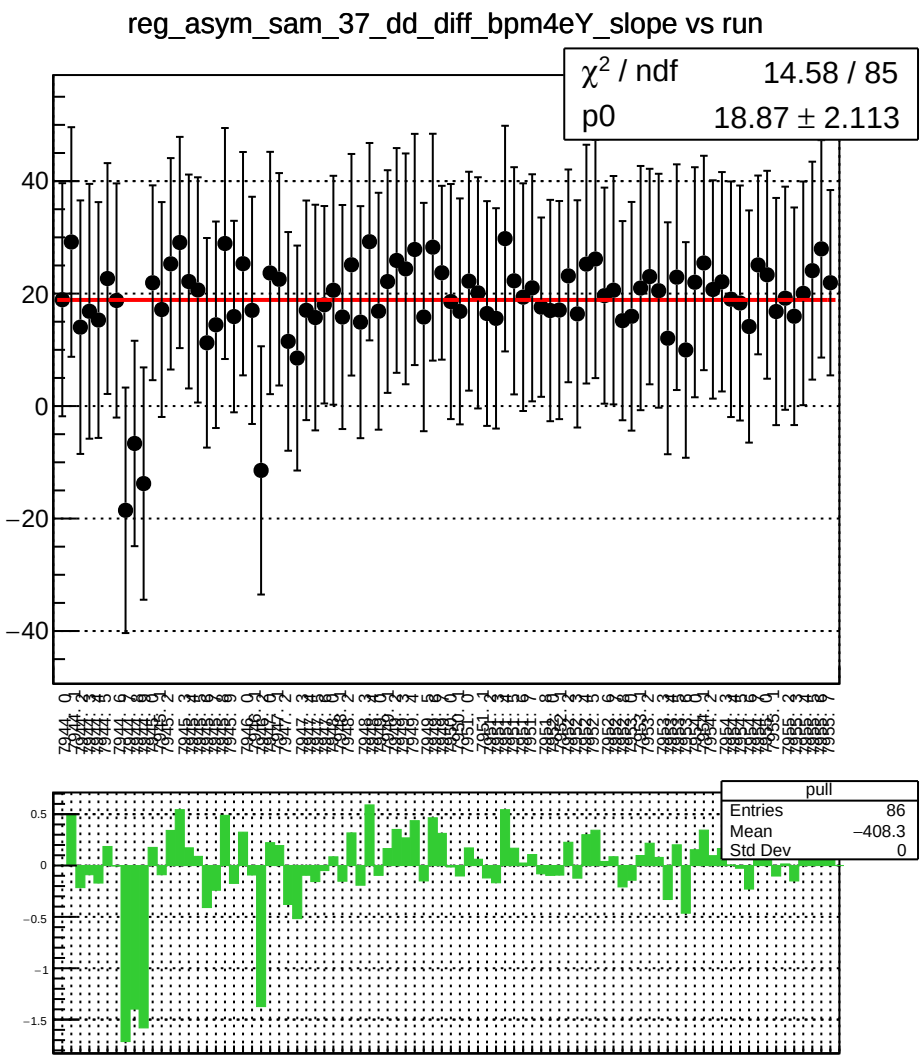

pull1D
Entries 86
Mean −0.006229
Std Dev 0.5997

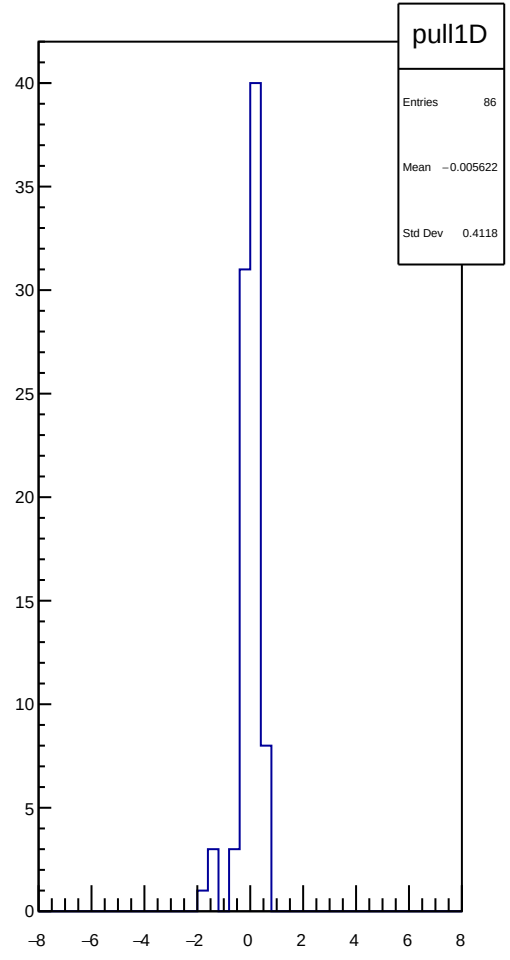

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.68 / 85
p0 −6.608 ± 1.838
pull
Entries 86
Mean −232
Std Dev 0

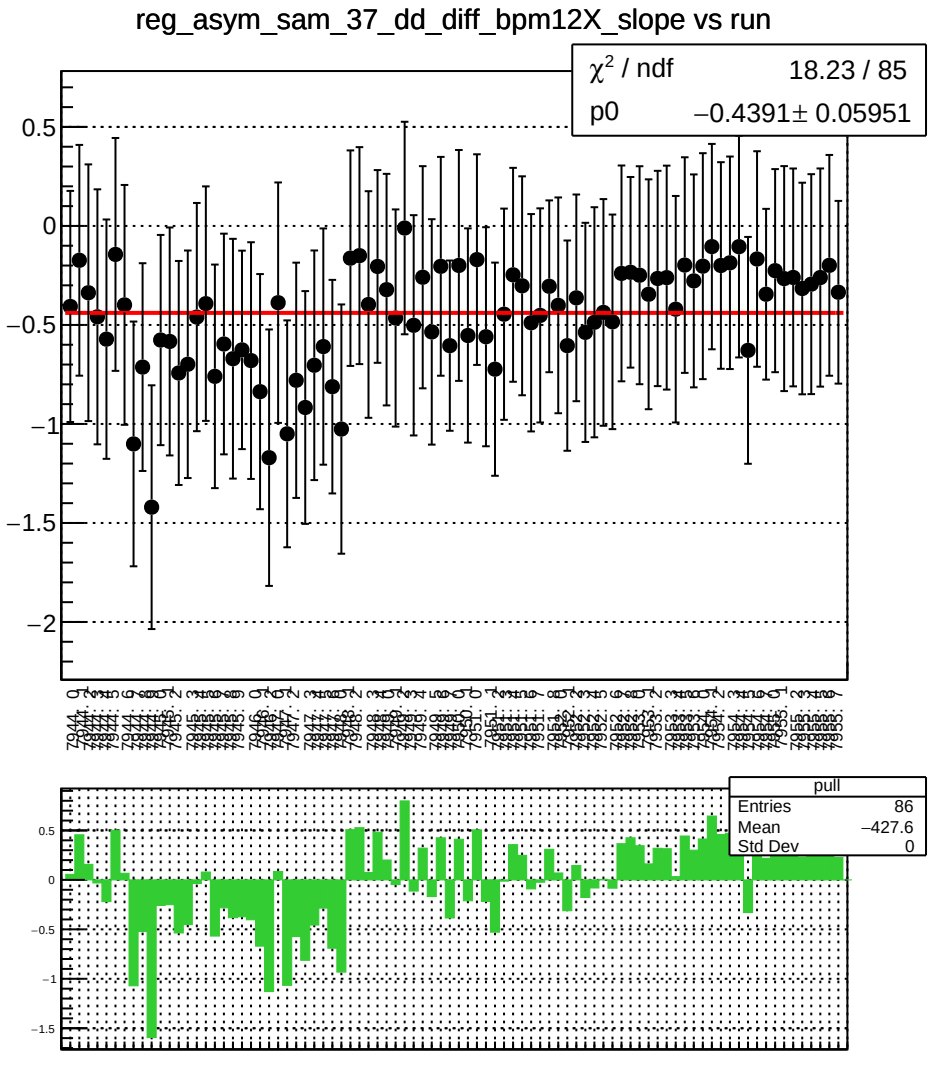

pull1D
Entries 86
Mean 0.006732
Std Dev 0.4131

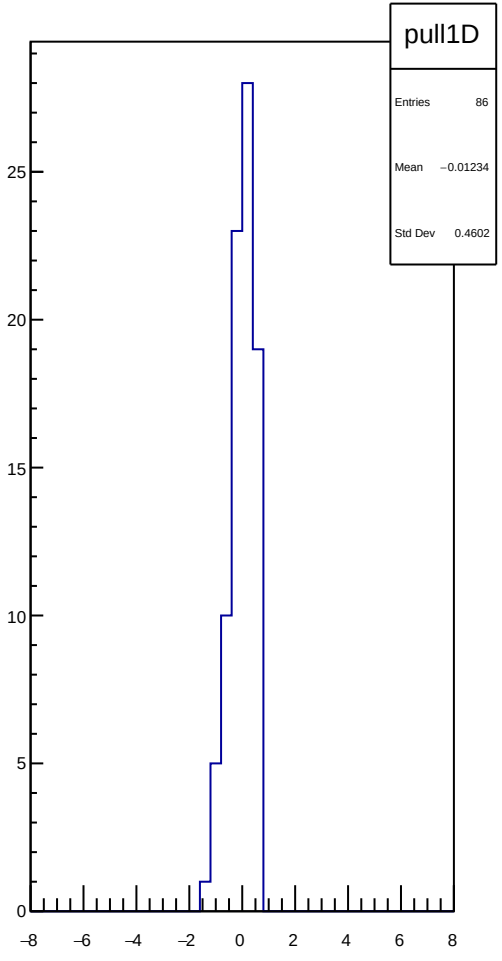

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.11 / 85
p0 5.124 ± 1.582
pull
Entries 86
Mean −3469
Std Dev 0

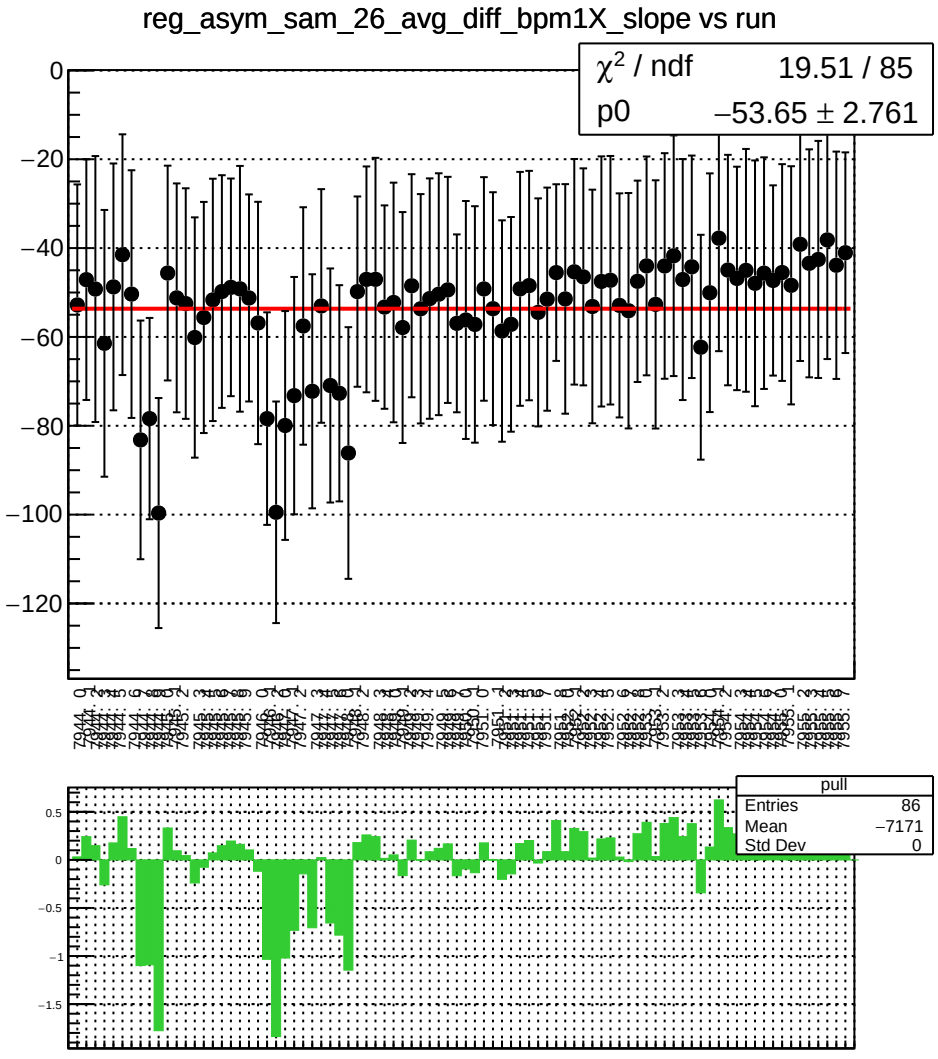

pull1D
Entries 86
Mean 0.001818
Std Dev 0.5717

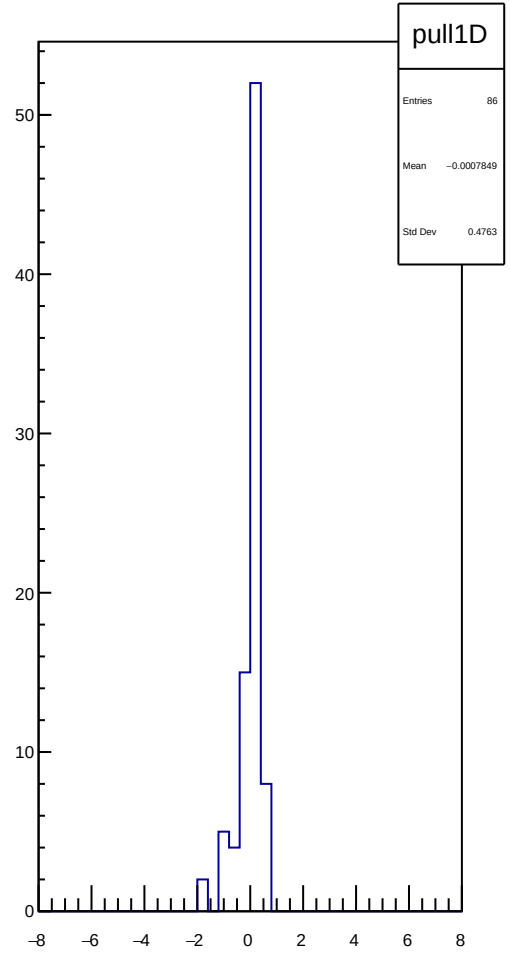

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.58 / 85
p0 18.87 ± 2.113
pull
Entries 86
Mean −408.3
Std Dev 0

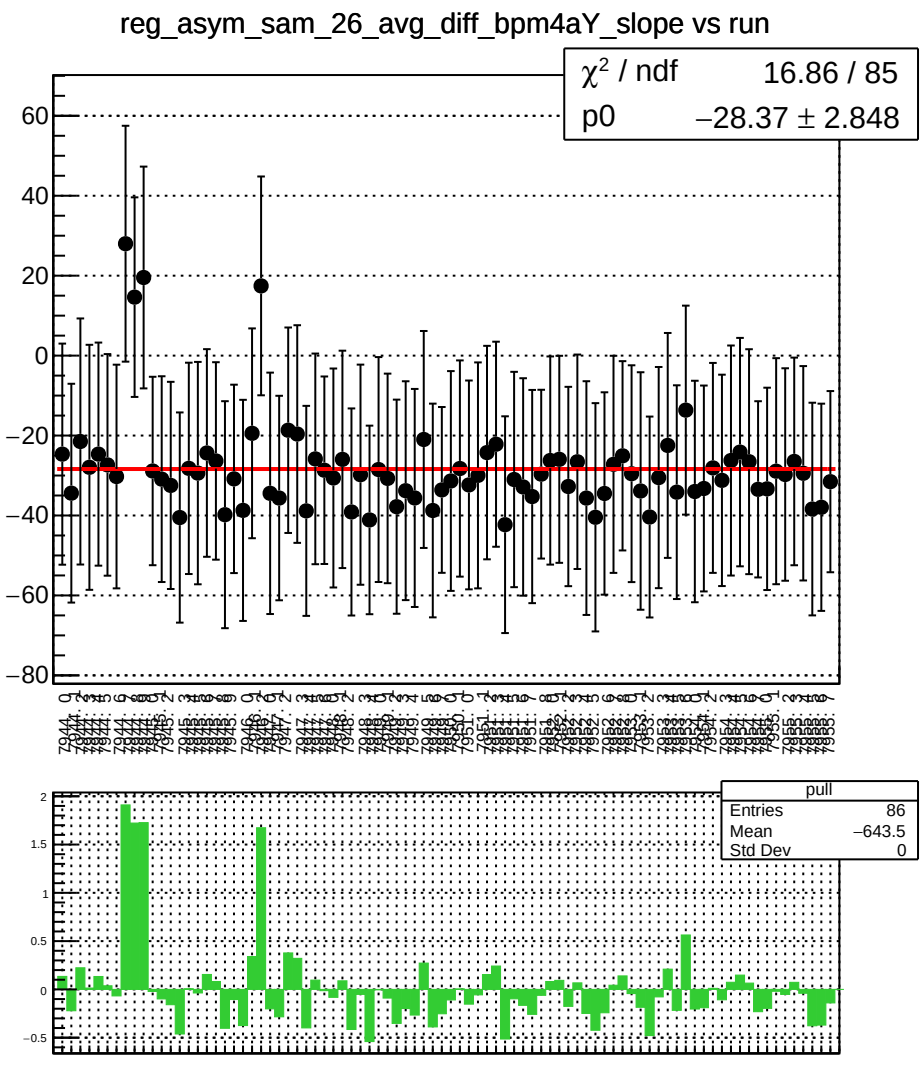

pull1D
Entries 86
Mean −0.005622
Std Dev 0.4118

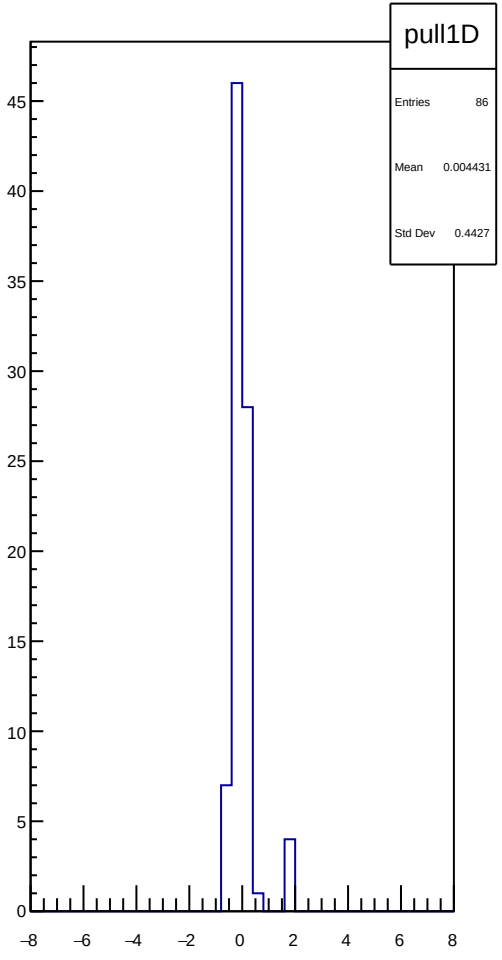

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 18.23 / 85
p0 −0.4391± 0.05951
pull
Entries 86
Mean −427.6
Std Dev 0

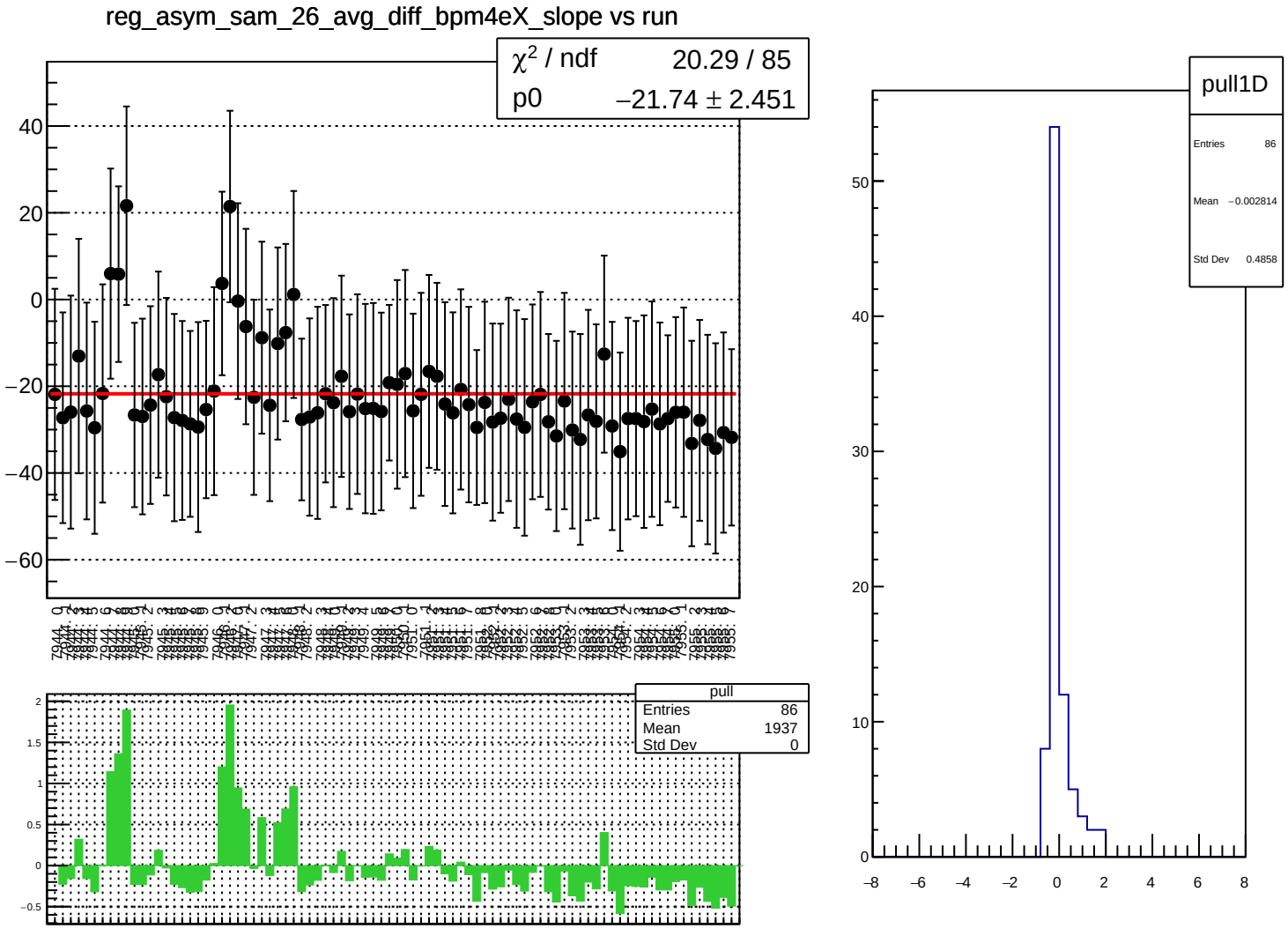

pull1D
Entries 86
Mean −0.01234
Std Dev 0.4602

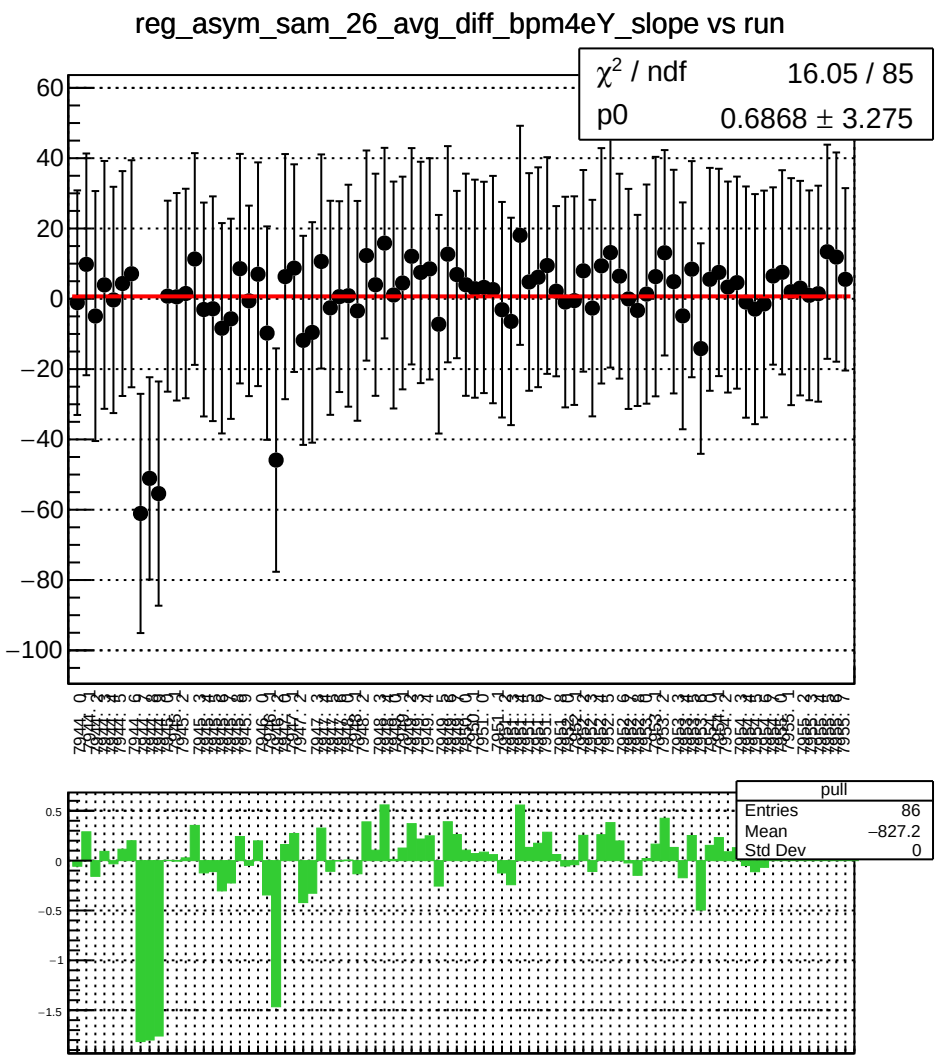

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 19.51 / 85
p0 −53.65 ± 2.761
pull
Entries 86
Mean −7171
Std Dev 0

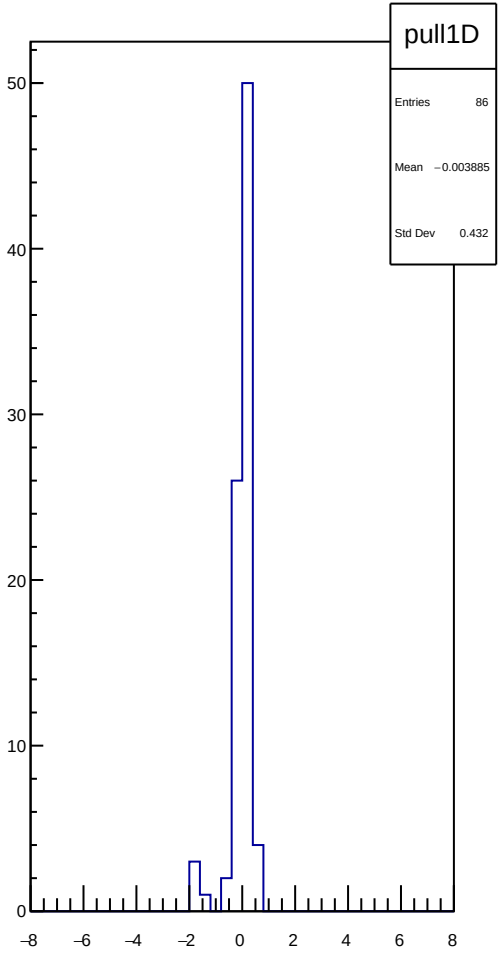

pull1D
Entries 86
Mean −0.0007849
Std Dev 0.4763

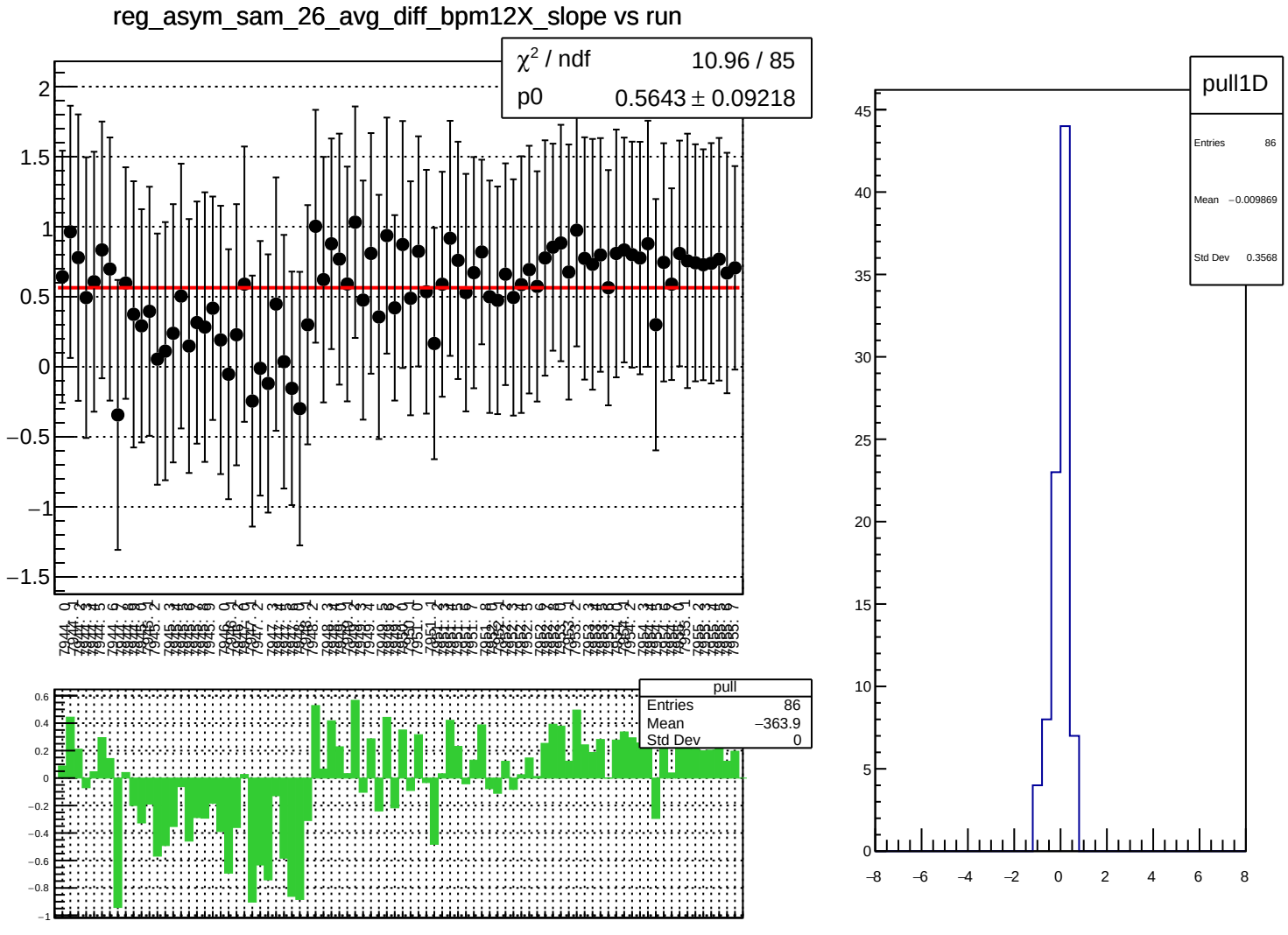

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.86 / 85
p0 −28.37 ± 2.848
pull
Entries 86
Mean −643.5
Std Dev 0

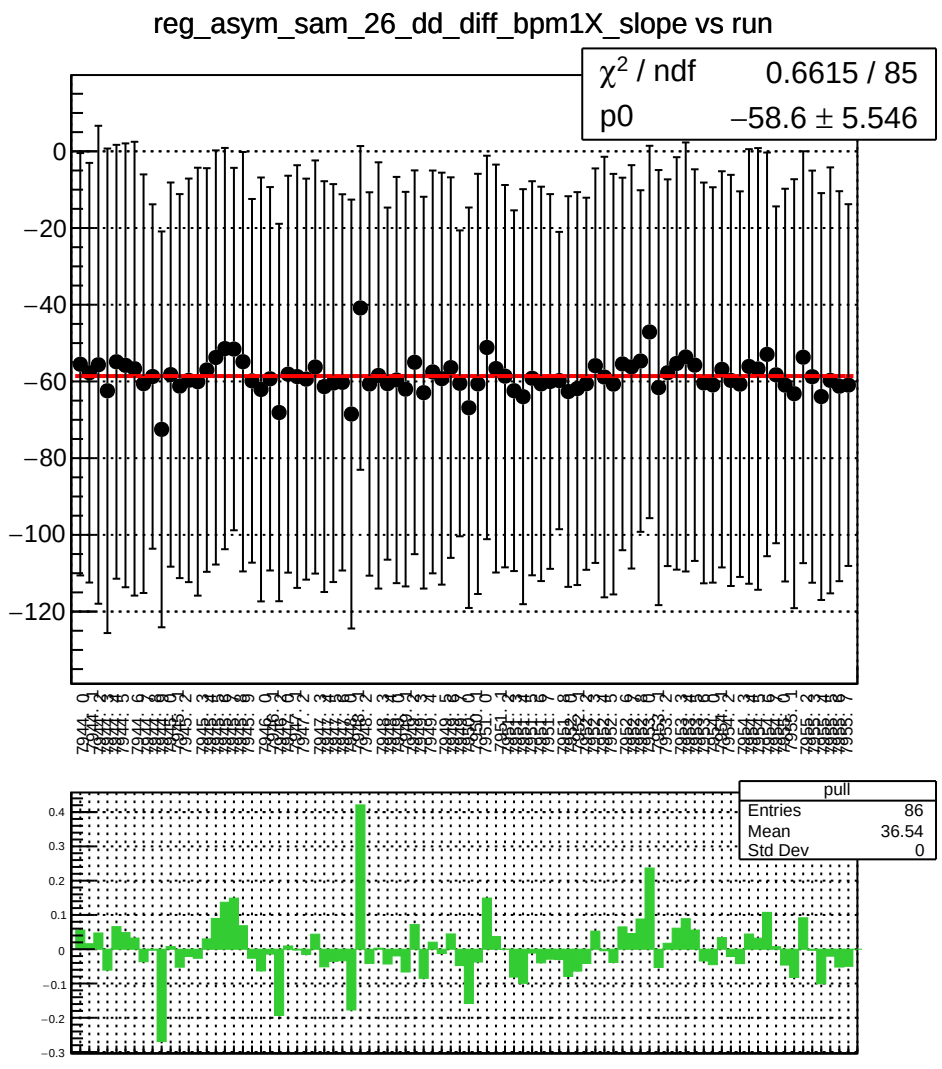

pull1D
Entries 86
Mean 0.004431
Std Dev 0.4427

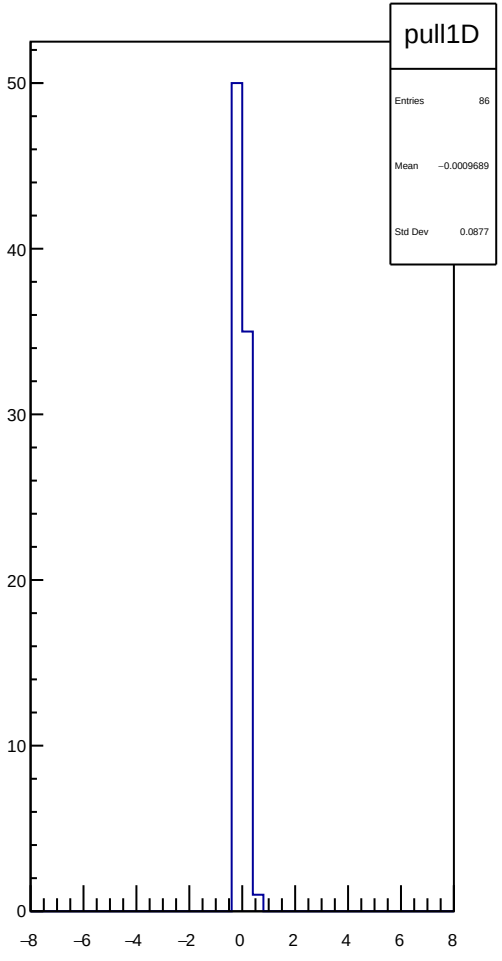

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.29 / 85
p0 −21.74 ± 2.451
pull
Entries 86
Mean 1937
Std Dev 0
pull1D
Entries 86
Mean −0.002814
Std Dev 0.4858

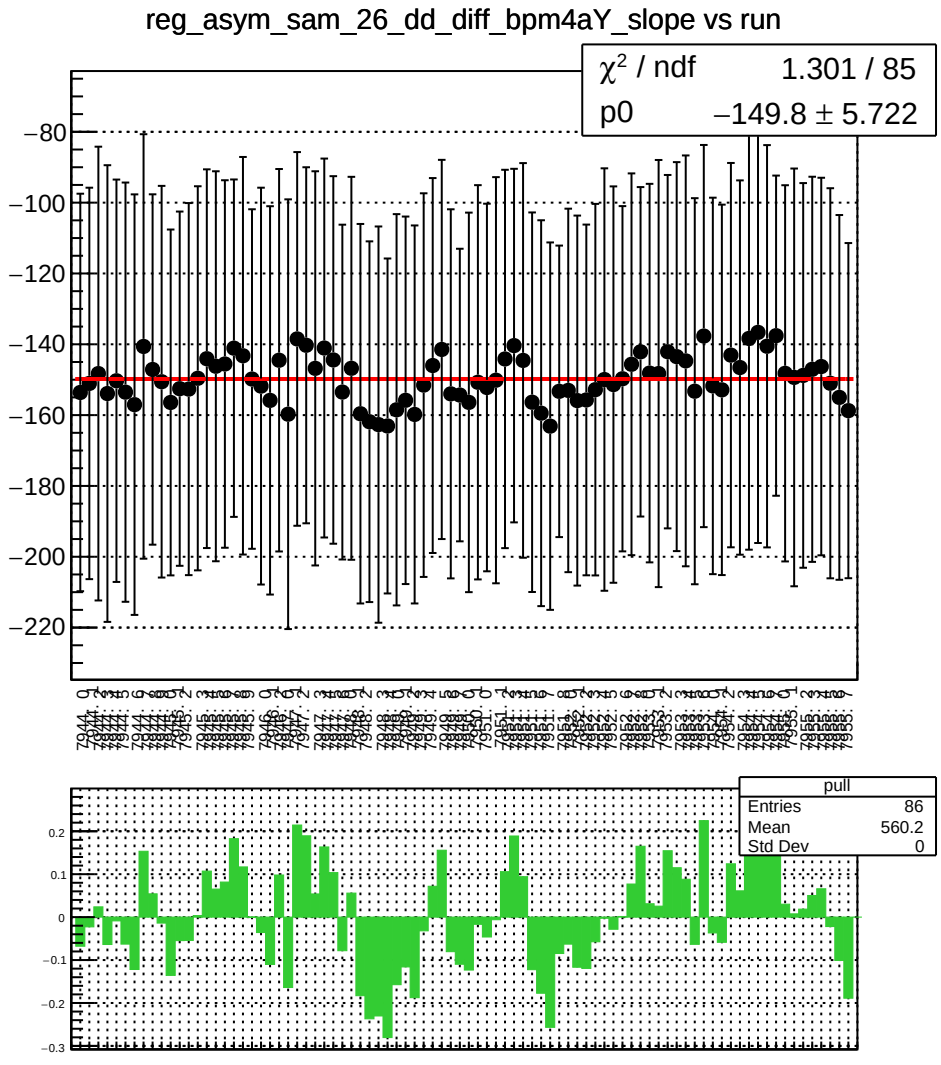

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.05 / 85
p0 0.6868 ± 3.275
pull
Entries 86
Mean −827.2
Std Dev 0

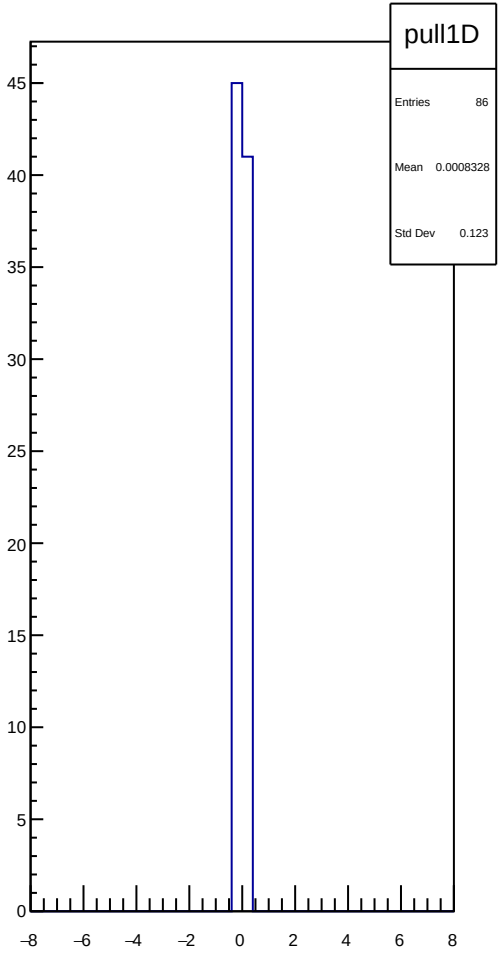

pull1D
Entries 86
Mean −0.003885
Std Dev 0.432

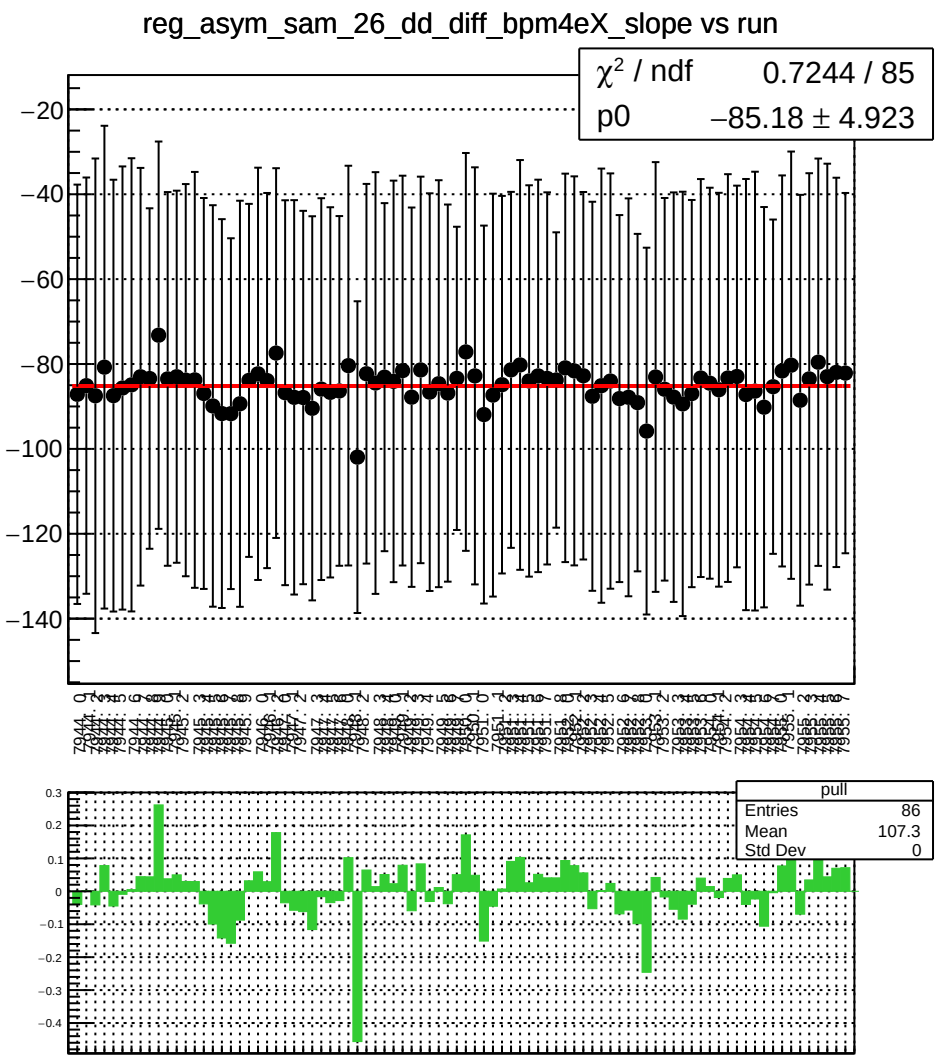

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 10.96 / 85
p0 0.5643 ± 0.09218
pull
Entries 86
Mean −363.9
Std Dev 0
pull1D
Entries 86
Mean −0.009869
Std Dev 0.3568

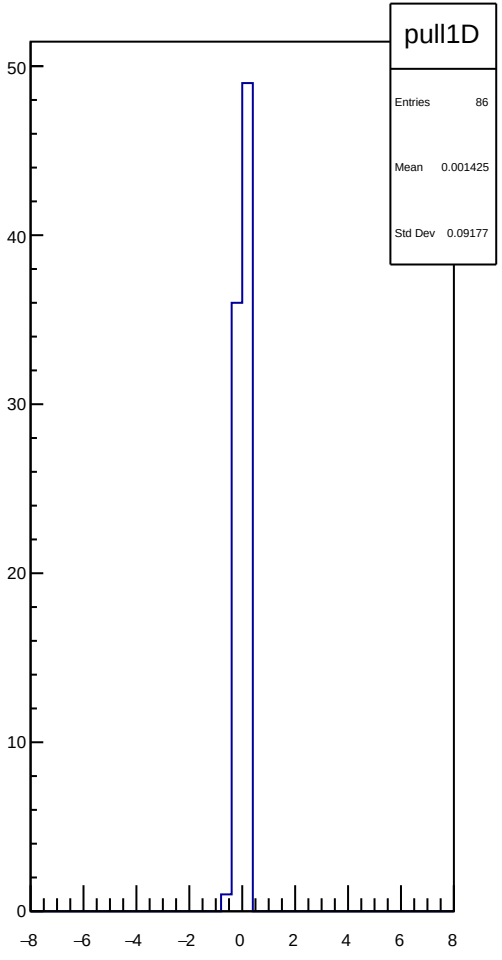

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.6615 / 85
p0 −58.6 ± 5.546
pull
Entries 86
Mean 36.54
Std Dev 0

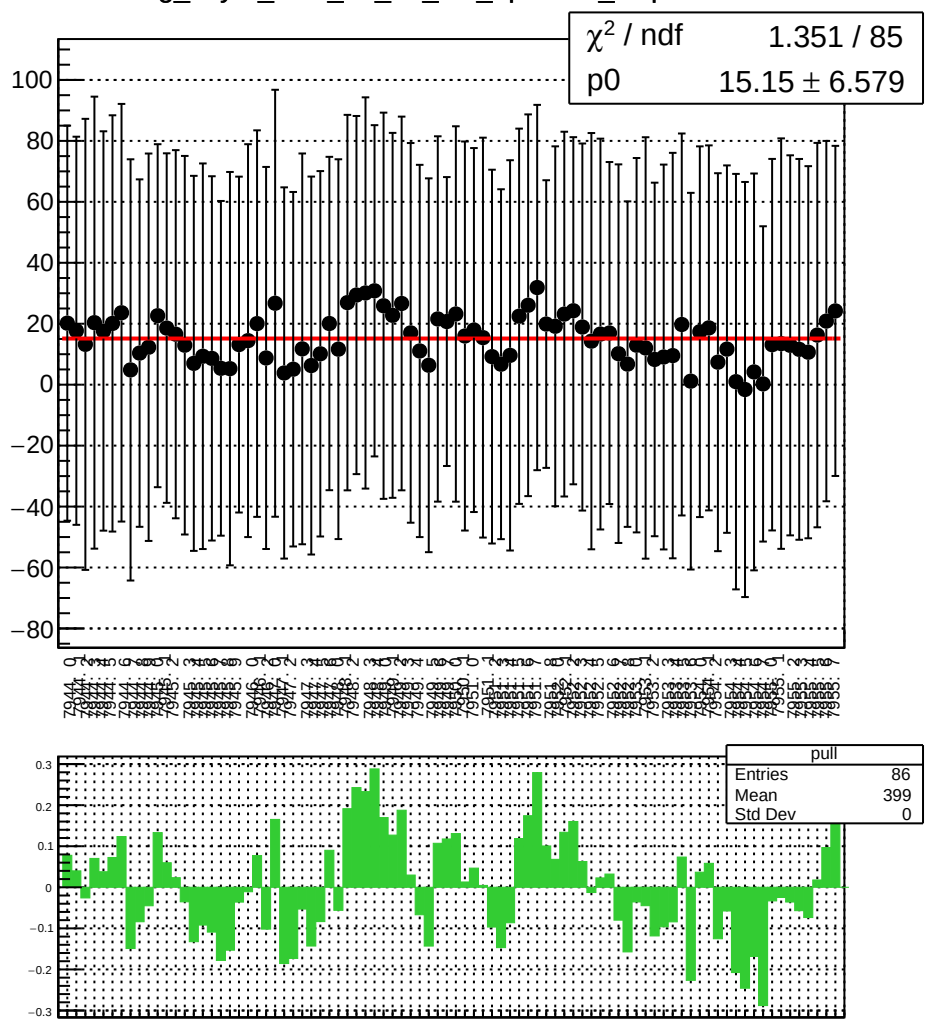

pull1D
Entries 86
Mean −0.0009689
Std Dev 0.0877

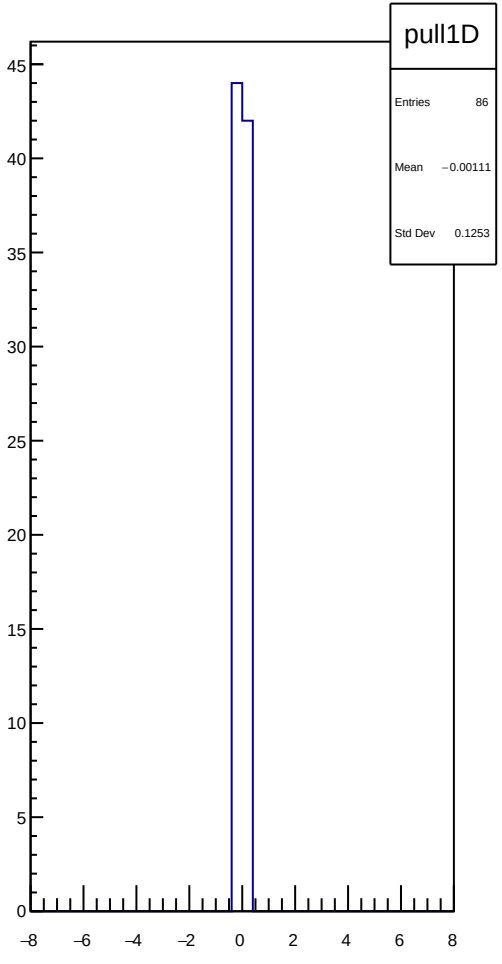

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.301 / 85
p0 −149.8 ± 5.722
pull
Entries 86
Mean 560.2
Std Dev 0

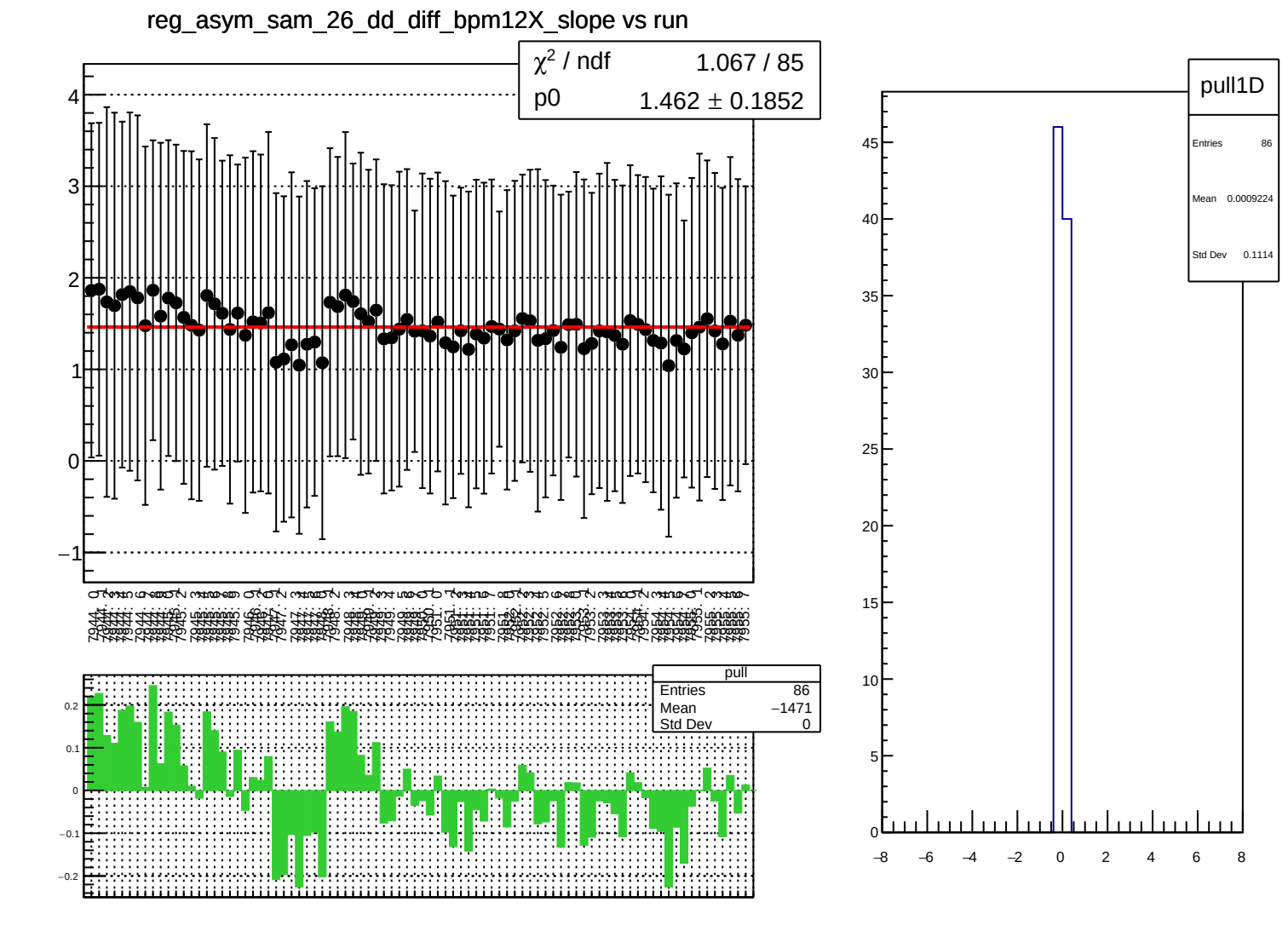

pull1D
Entries 86
Mean 0.0008328
Std Dev 0.123

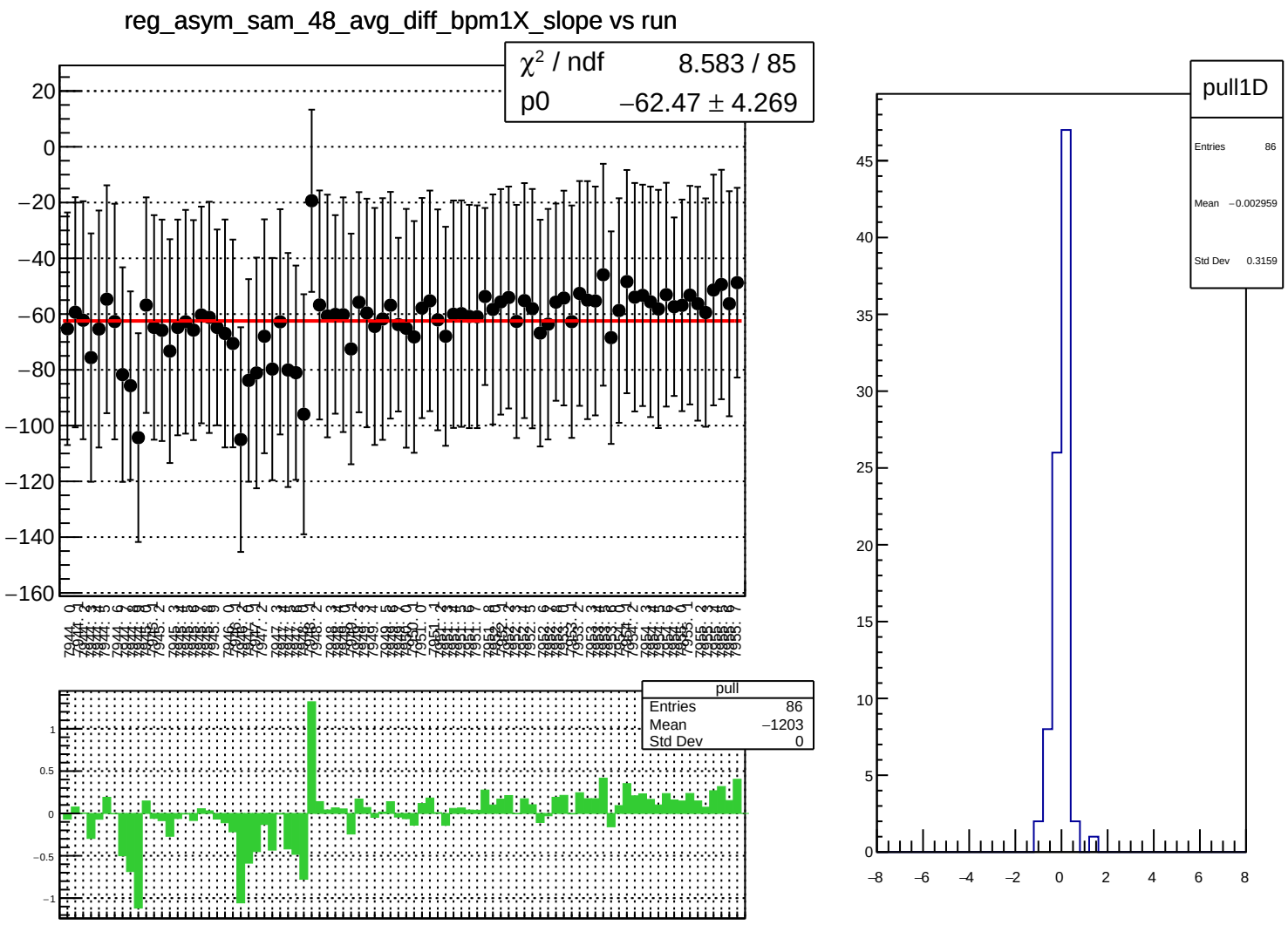

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.7244 / 85
p0 −85.18 ± 4.923
pull
Entries 86
Mean 107.3
Std Dev 0

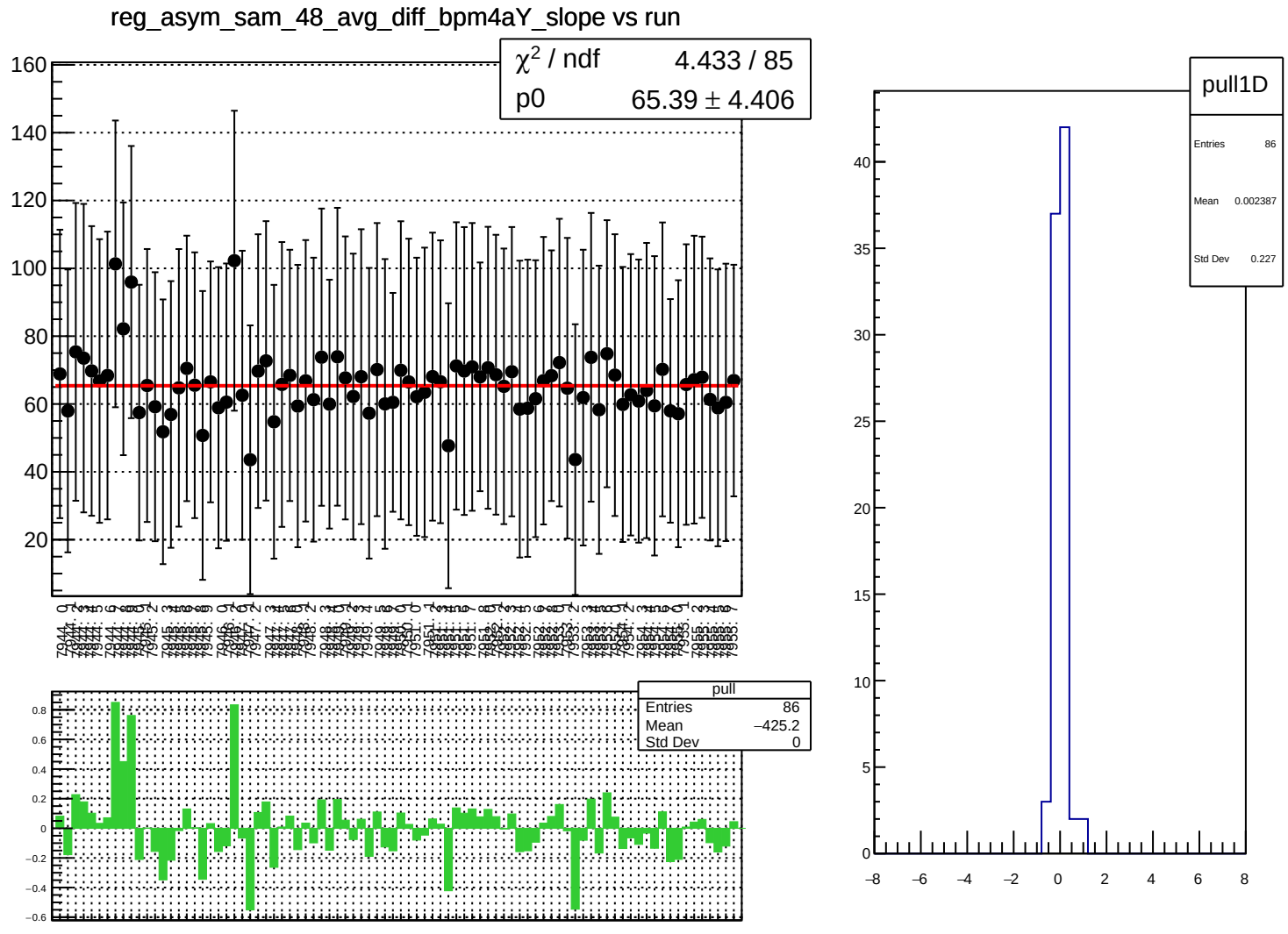

pull1D
Entries 86
Mean 0.001425
Std Dev 0.09177

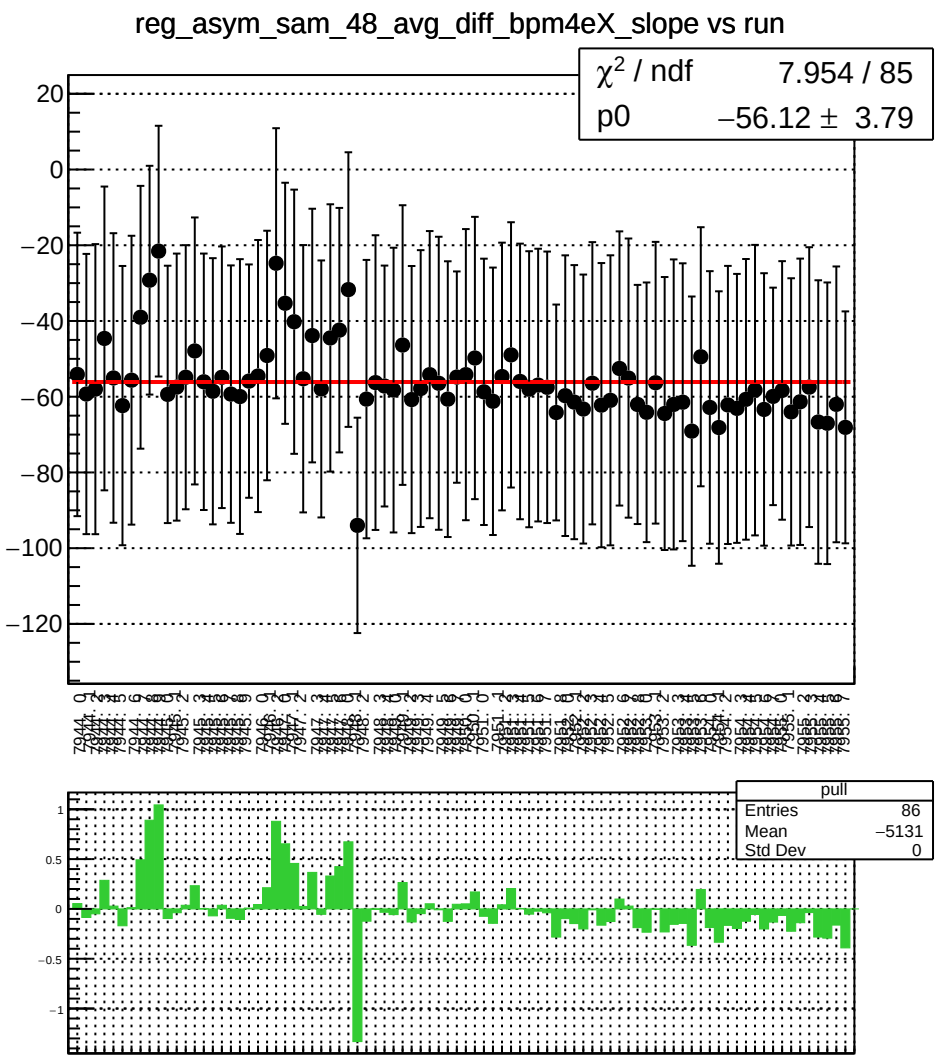

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.351 / 85
p0 15.15 ± 6.579
pull
Entries 86
Mean 399
Std Dev 0

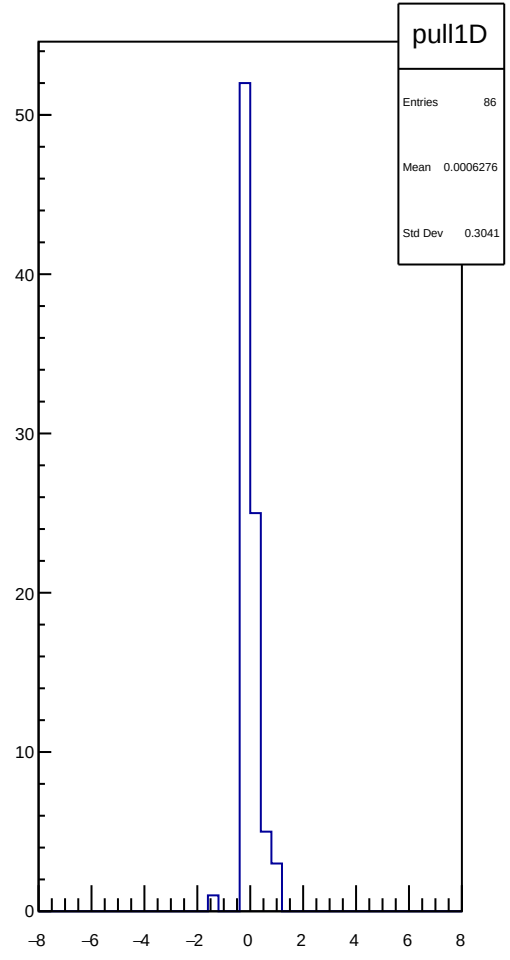

pull1D
Entries 86
Mean −0.00111
Std Dev 0.1253

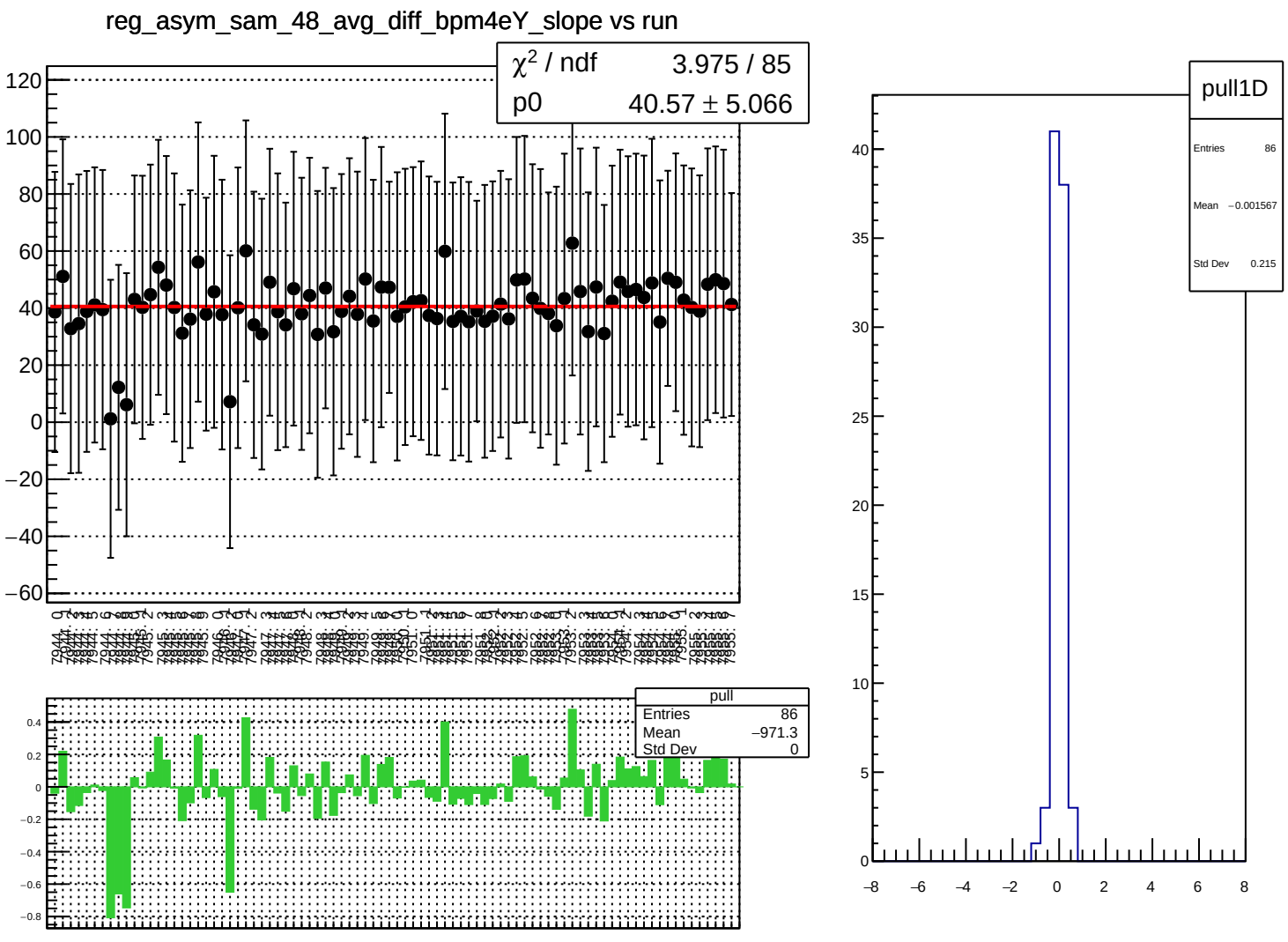

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.067 / 85
p0 1.462 ± 0.1852
pull
Entries 86
Mean −1471
Std Dev 0
pull1D
Entries 86
Mean 0.0009224
Std Dev 0.1114

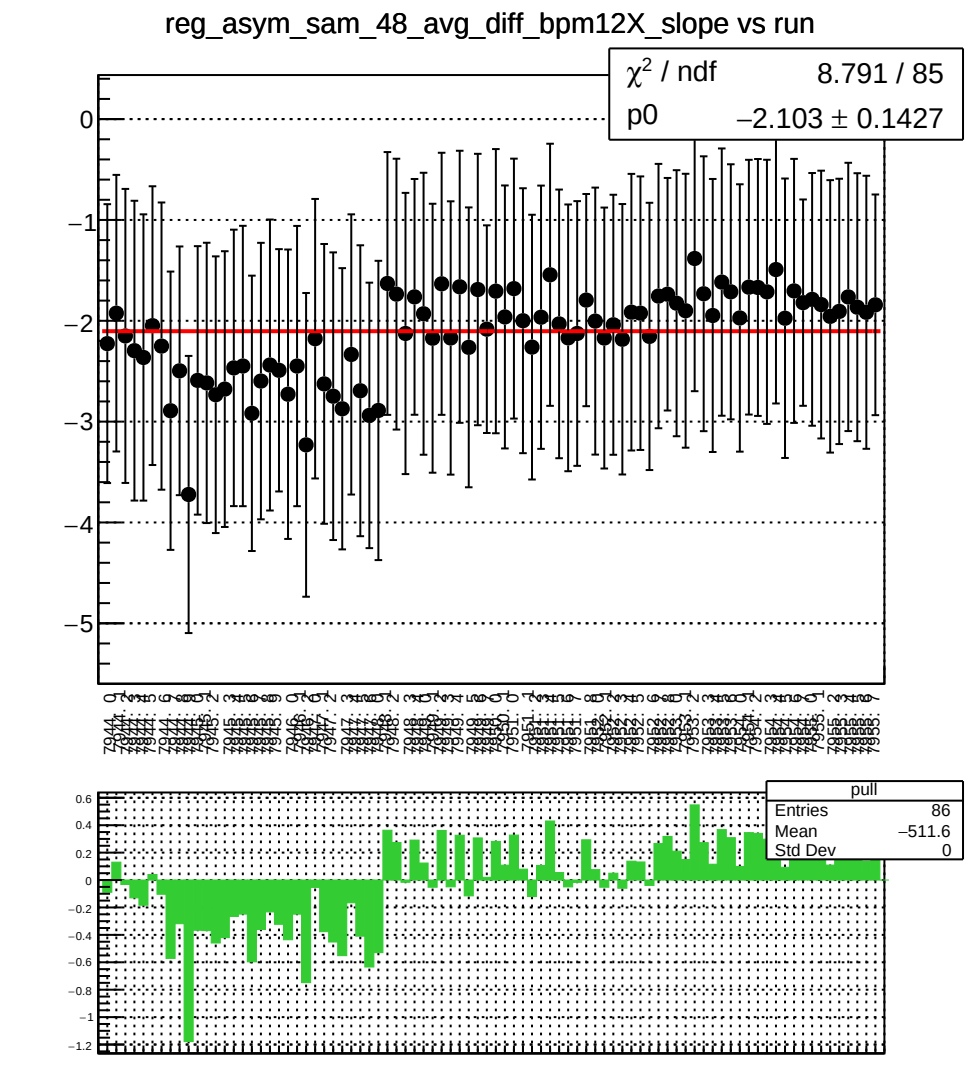

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 8.583 / 85
p0 −62.47 ± 4.269
pull
Entries 86
Mean −1203
Std Dev 0
pull1D
Entries 86
Mean −0.002959
Std Dev 0.3159

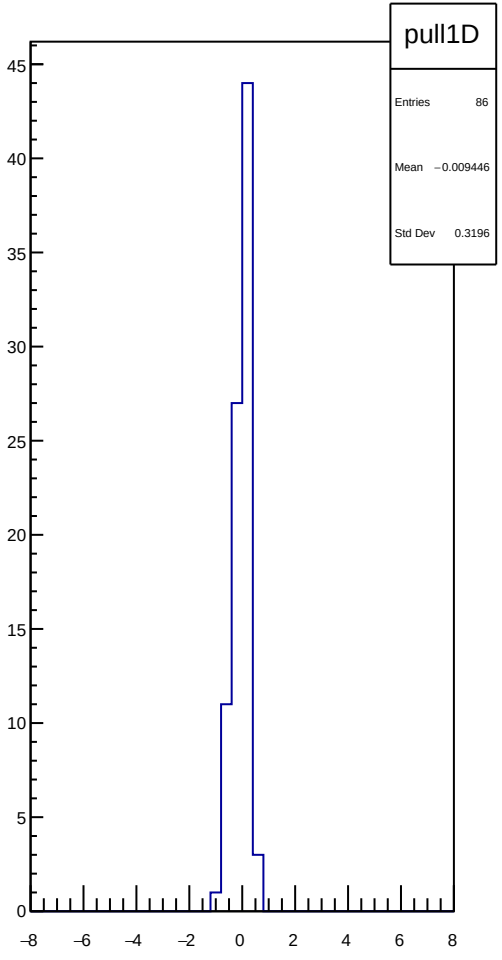

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.433 / 85
p0 65.39 ± 4.406
pull
Entries 86
Mean −425.2
Std Dev 0
pull1D
Entries 86
Mean 0.002387
Std Dev 0.227

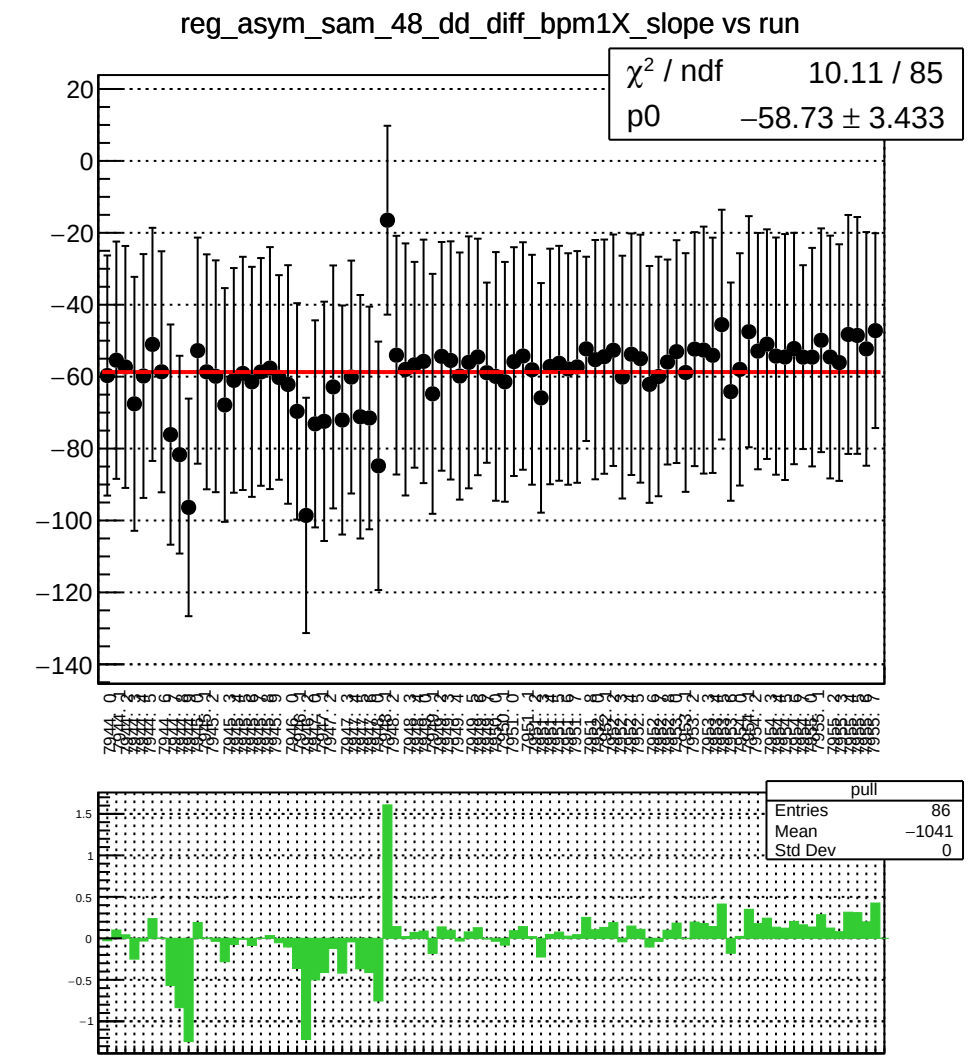

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.954 / 85
p0 −56.12 ± 3.79
pull
Entries 86
Mean −5131
Std Dev 0

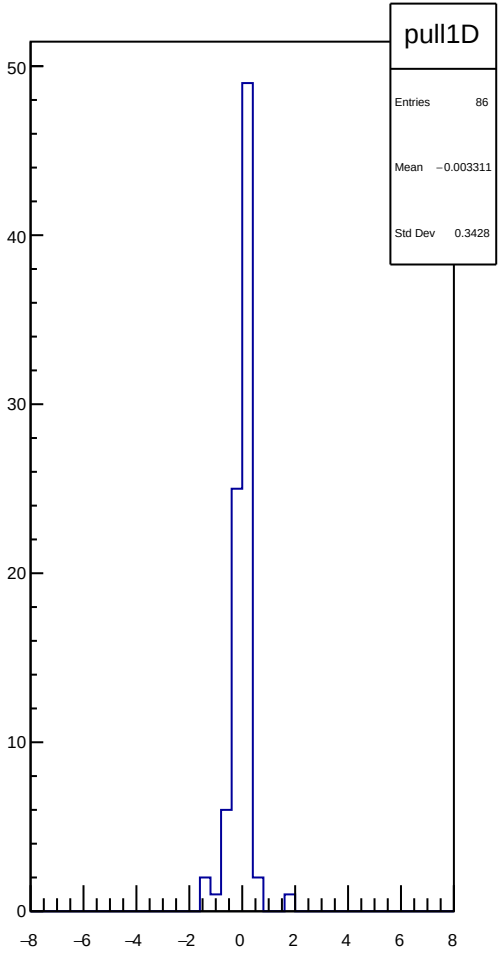

pull1D
Entries 86
Mean 0.0006276
Std Dev 0.3041

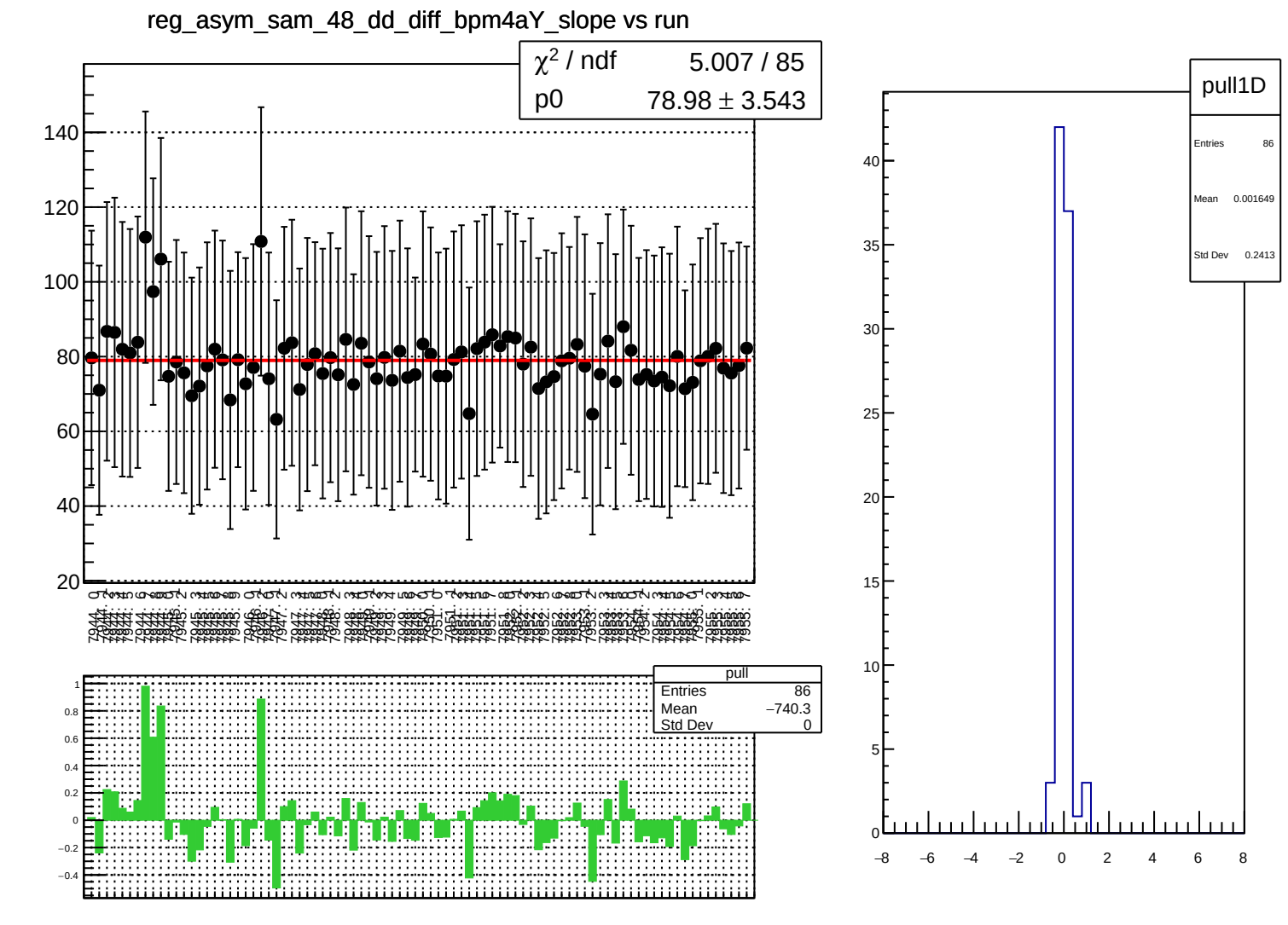

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 3.975 / 85
p0 40.57 ± 5.066
pull
Entries 86
Mean −971.3
Std Dev 0
pull1D
Entries 86
Mean −0.001567
Std Dev 0.215

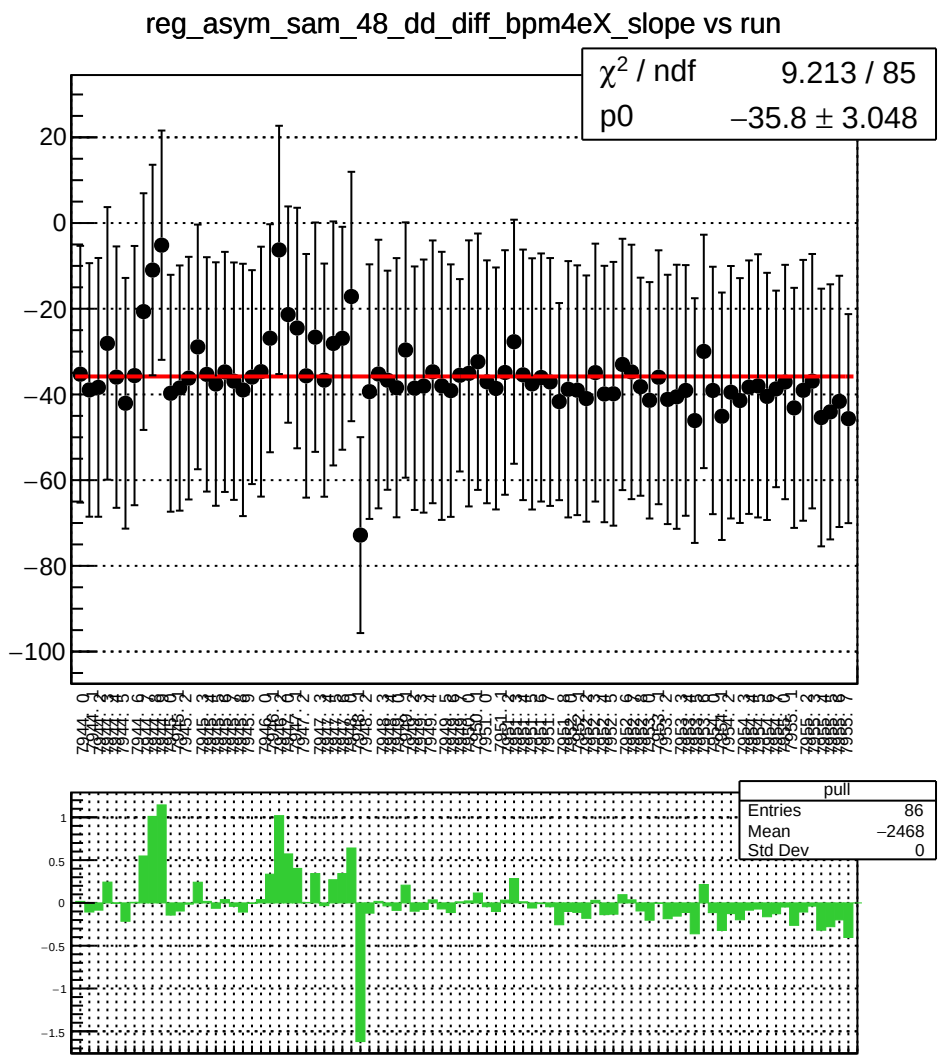

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 8.791 / 85
p0 −2.103 ± 0.1427
pull
Entries 86
Mean −511.6
Std Dev 0

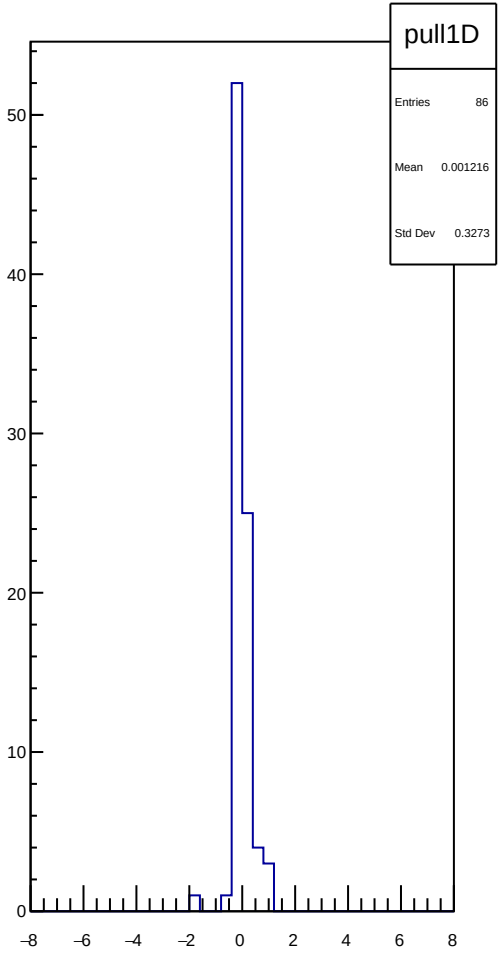

pull1D
Entries 86
Mean −0.009446
Std Dev 0.3196

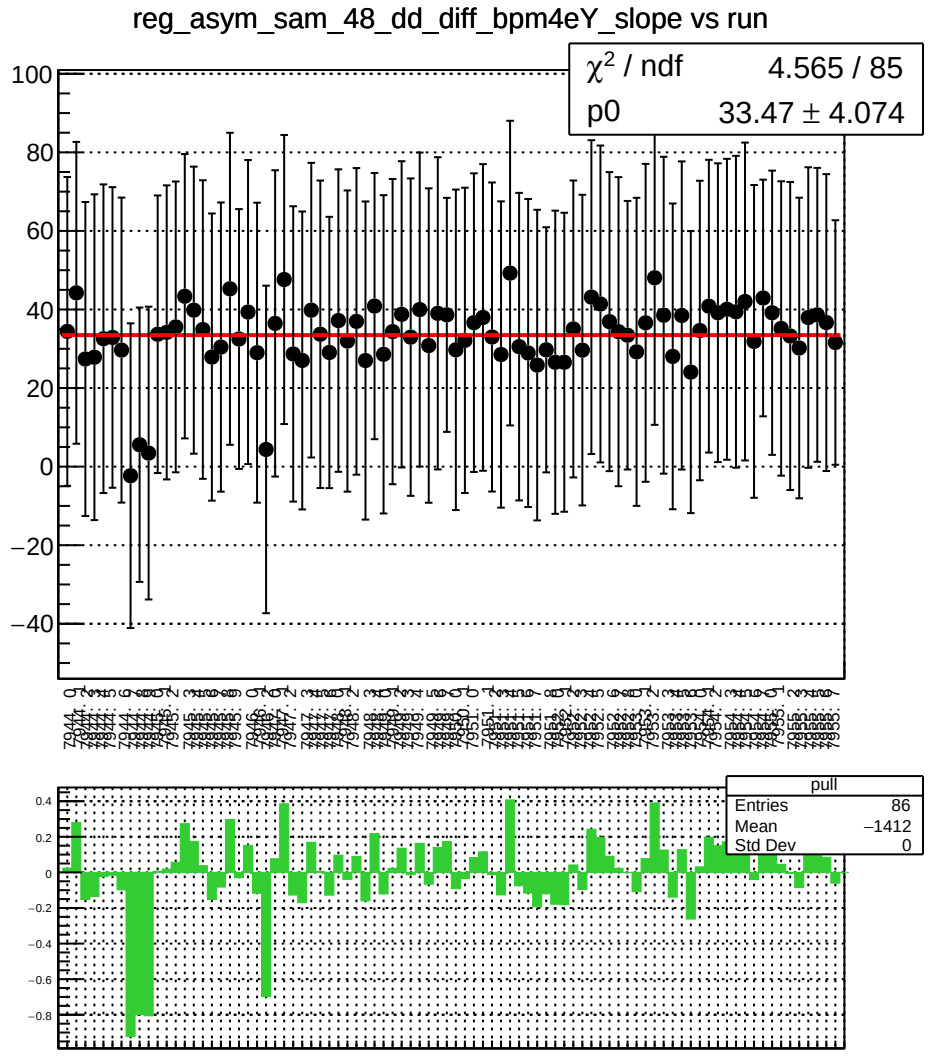

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 10.11 / 85
p0 −58.73 ± 3.433
pull
Entries 86
Mean −1041
Std Dev 0

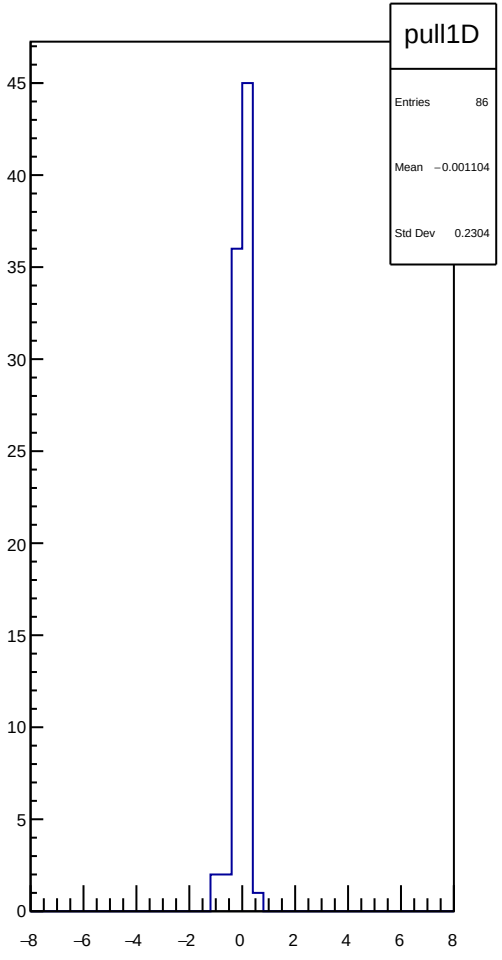

pull1D
Entries 86
Mean −0.003311
Std Dev 0.3428

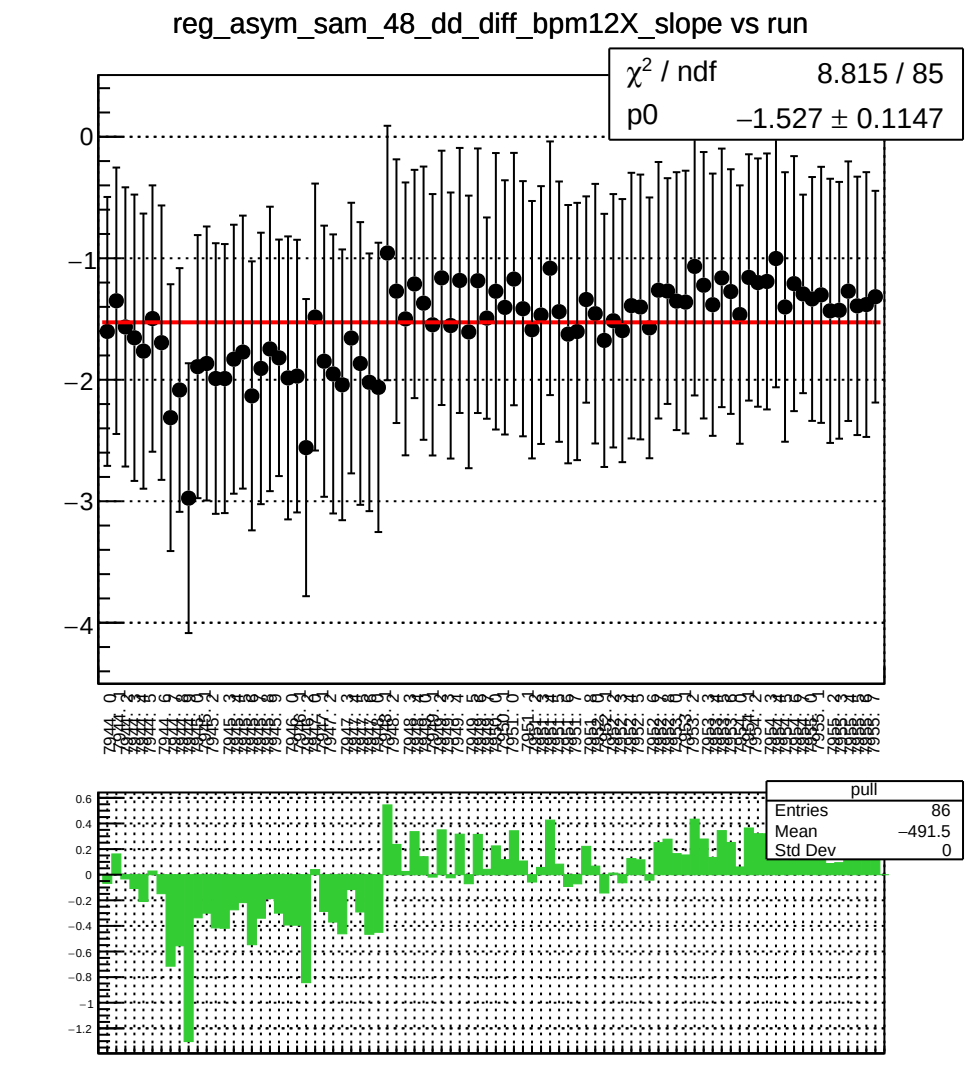

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.007 / 85
p0 78.98 ± 3.543
pull
Entries 86
Mean −740.3
Std Dev 0
pull1D
Entries 86
Mean 0.001649
Std Dev 0.2413

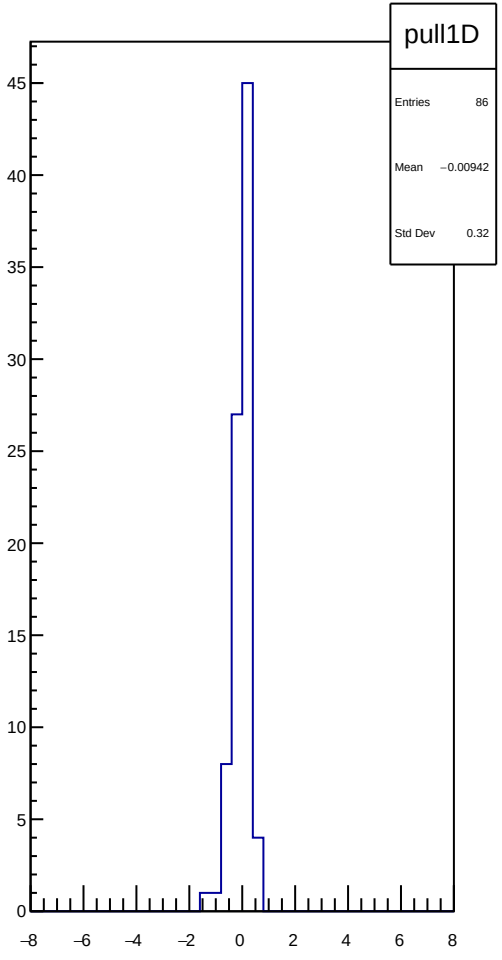

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.213 / 85
p0 −35.8 ± 3.048
pull
Entries 86
Mean −2468
Std Dev 0

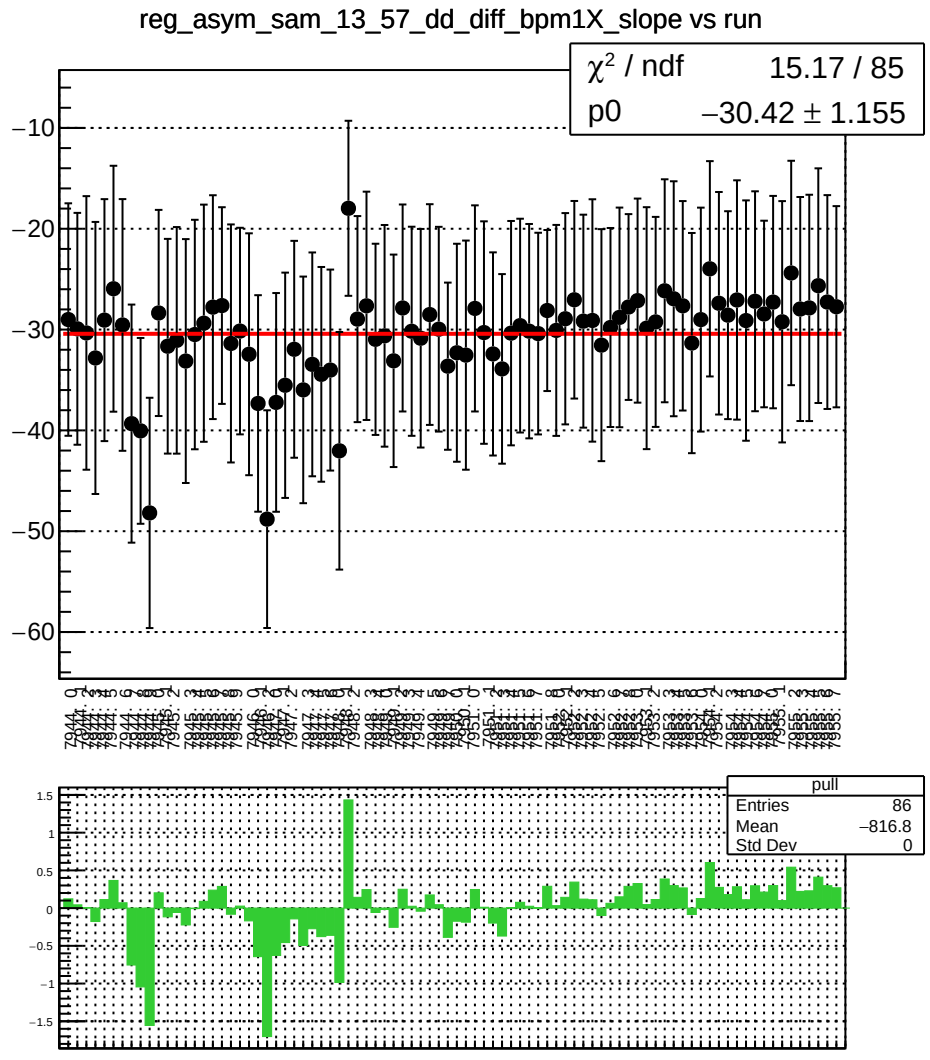

pull1D
Entries 86
Mean 0.001216
Std Dev 0.3273

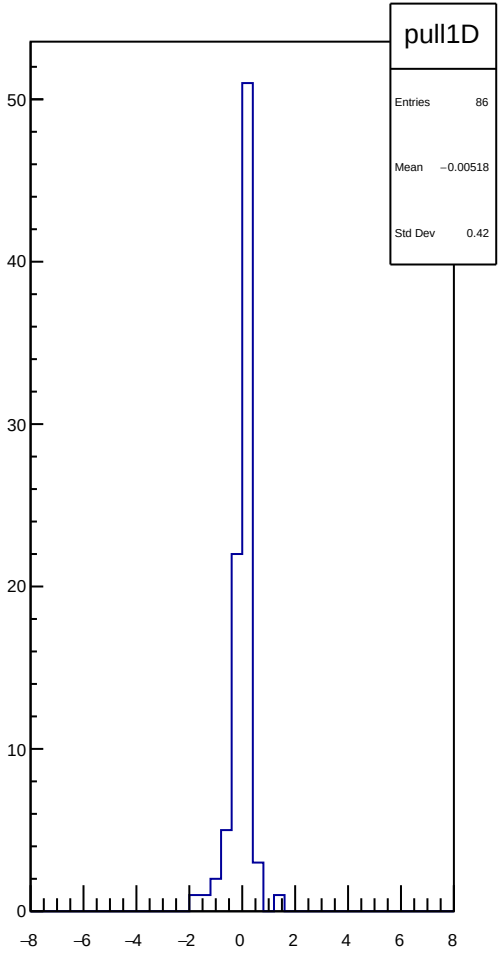

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.565 / 85
p0 33.47 ± 4.074
pull
Entries 86
Mean −1412
Std Dev 0

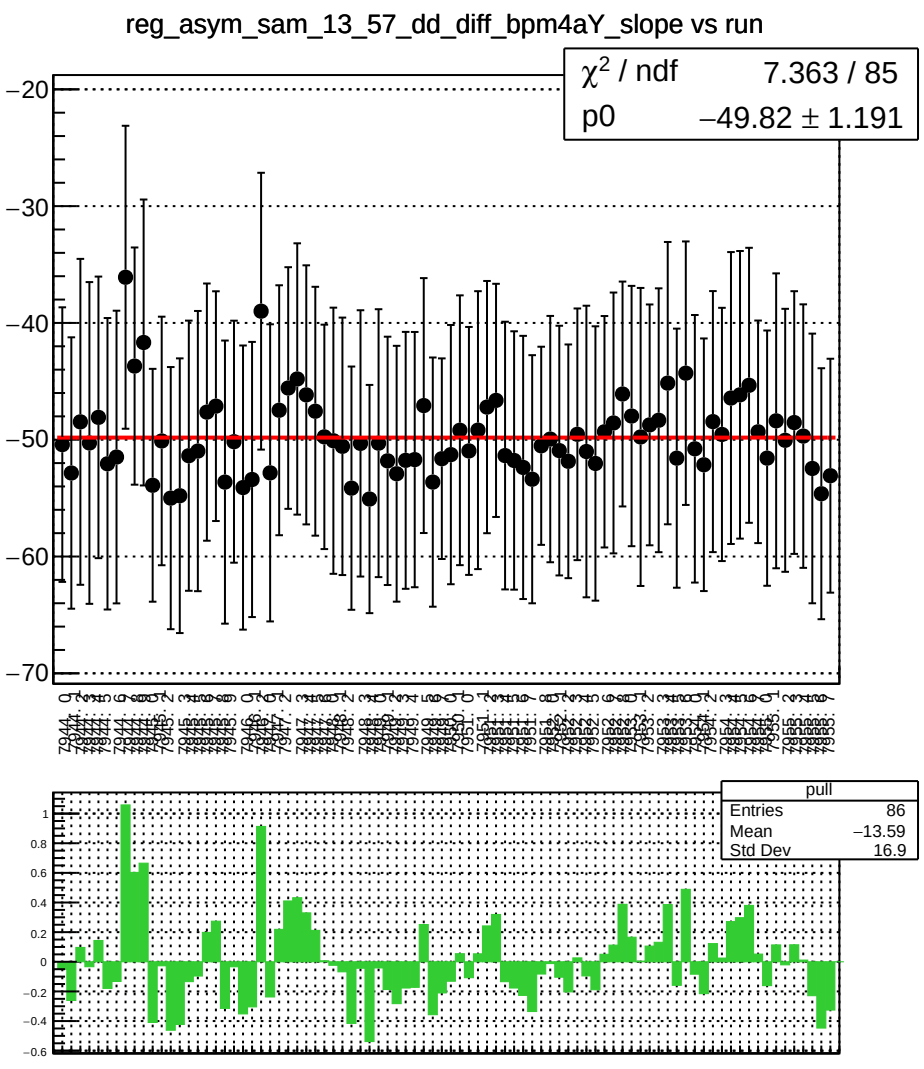

pull1D
Entries 86
Mean −0.001104
Std Dev 0.2304

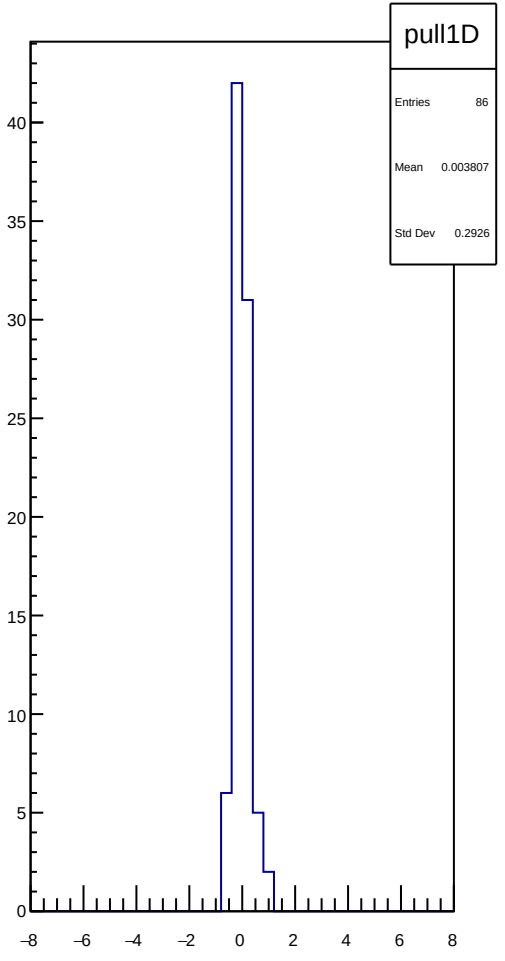

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.815 / 85
p0 −1.527 ± 0.1147
pull
Entries 86
Mean −491.5
Std Dev 0

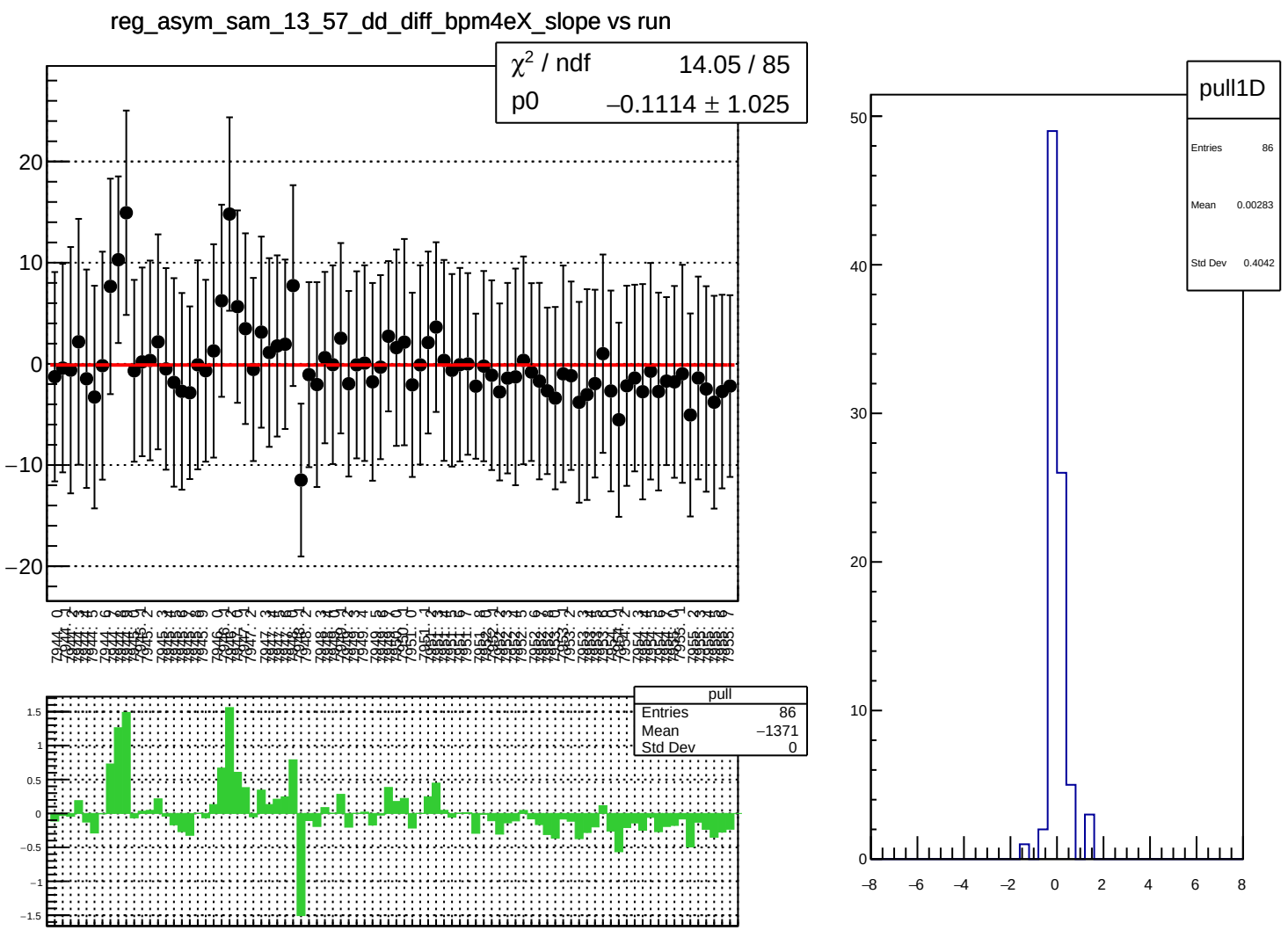

pull1D
Entries 86
Mean −0.00942
Std Dev 0.32

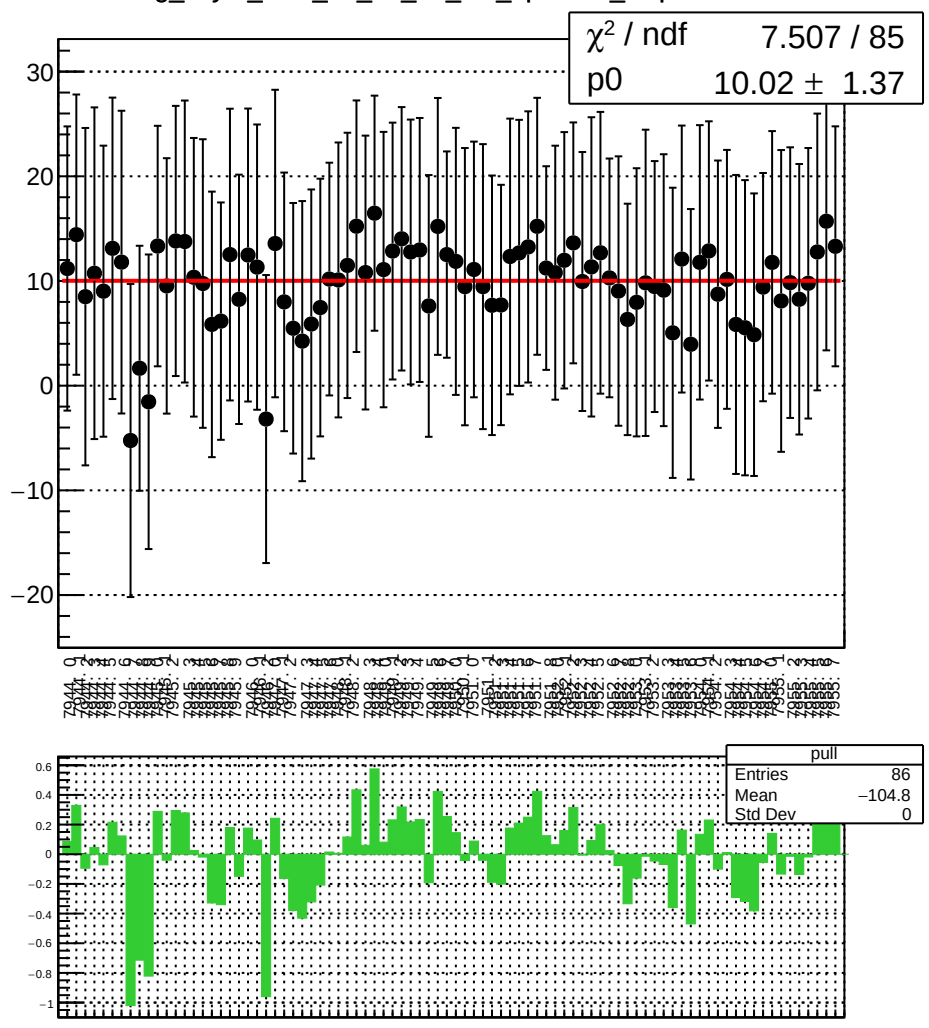

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 15.17 / 85
p0 −30.42 ± 1.155
pull
Entries 86
Mean −816.8
Std Dev 0

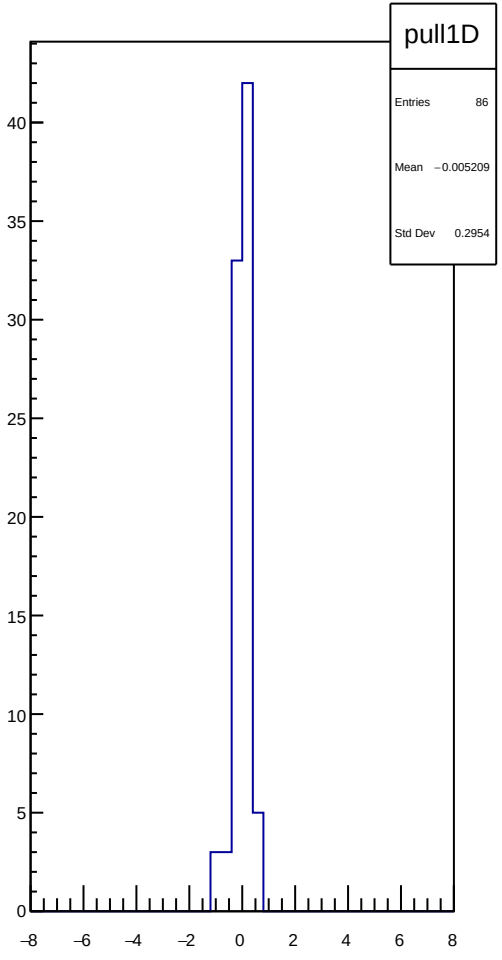

pull1D
Entries 86
Mean −0.00518
Std Dev 0.42

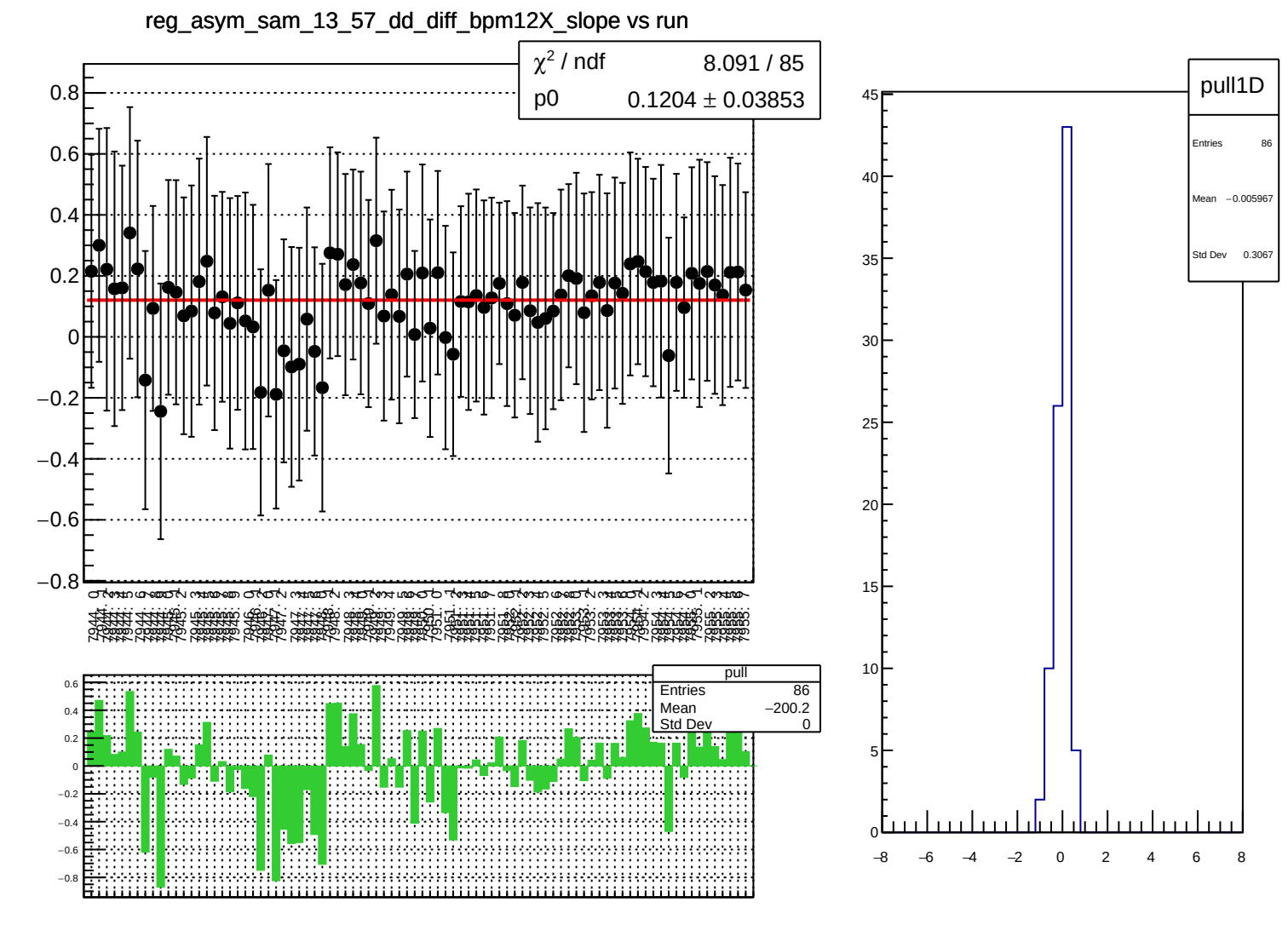

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.363 / 85
p0 −49.82 ± 1.191
pull
Entries 86
Mean −13.59
Std Dev 16.9

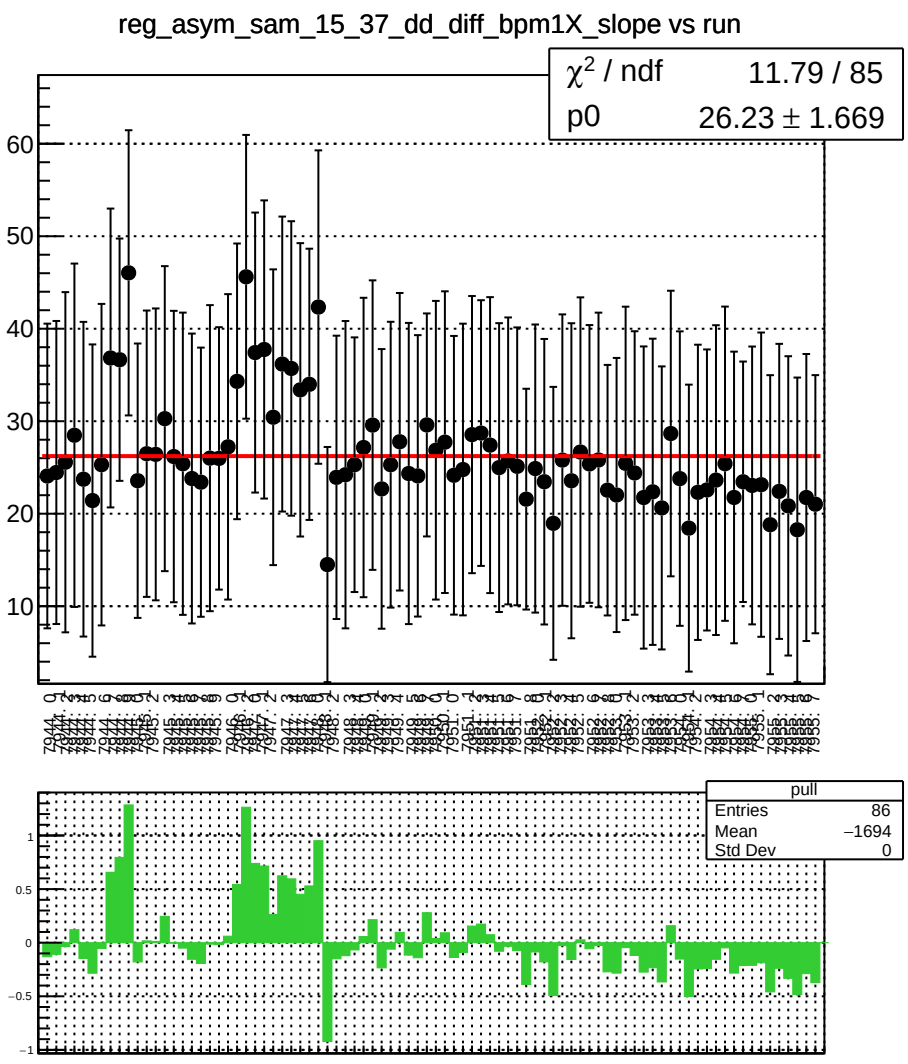

pull1D
Entries 86
Mean 0.003807
Std Dev 0.2926

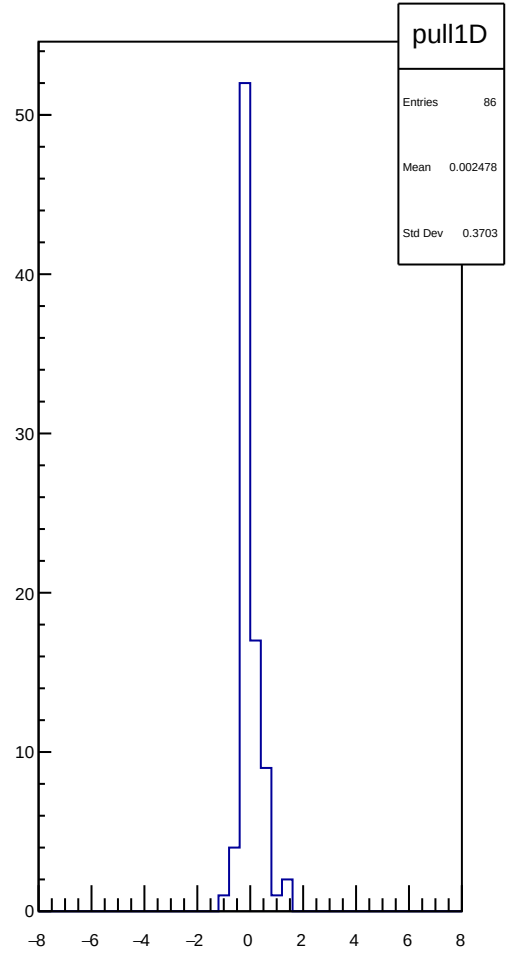

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.05 / 85
p0 −0.1114 ± 1.025
pull
Entries 86
Mean −1371
Std Dev 0
pull1D
Entries 86
Mean 0.00283
Std Dev 0.4042

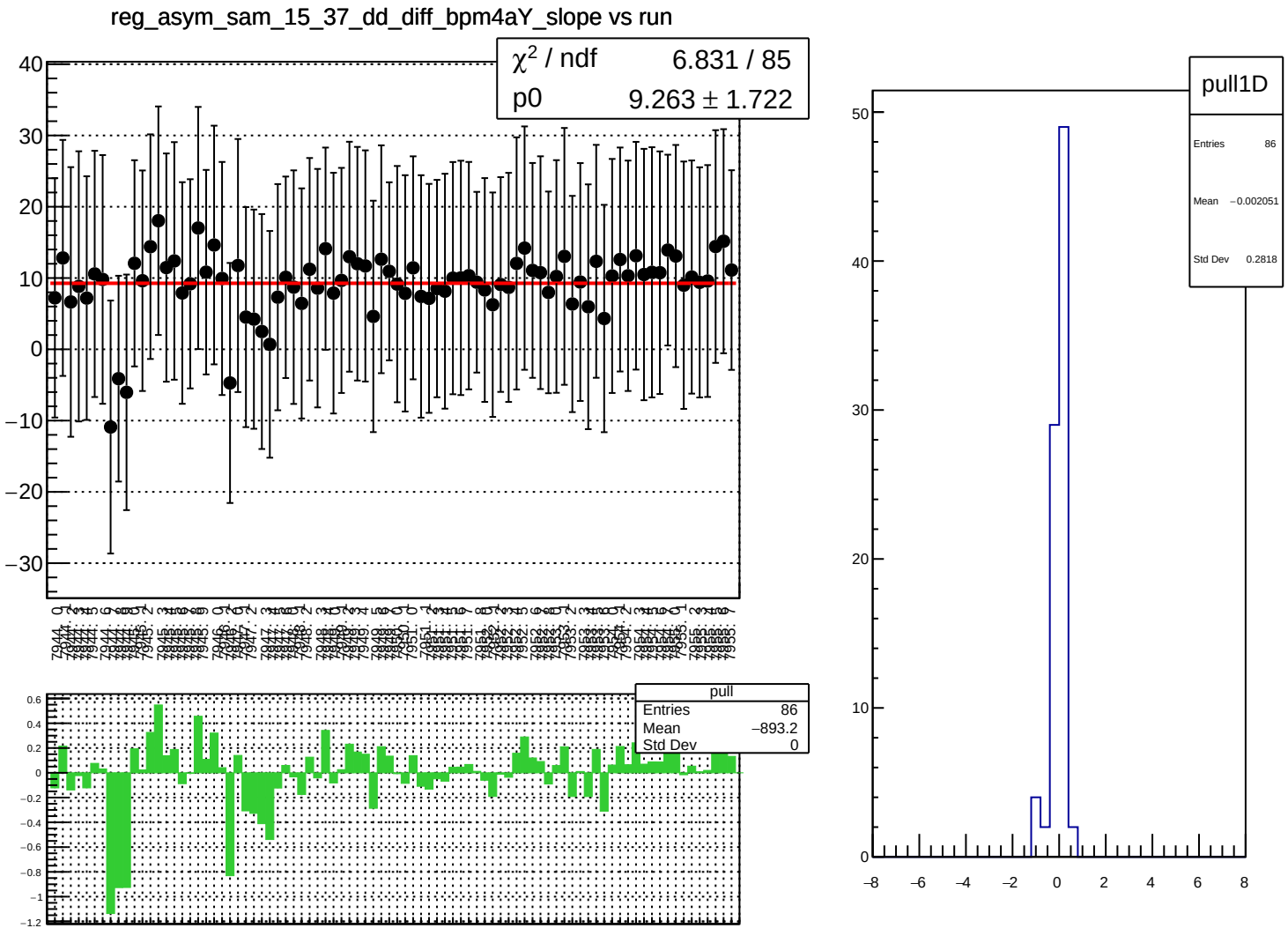

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.507 / 85
p0 10.02 ± 1.37
pull
Entries 86
Mean −104.8
Std Dev 0

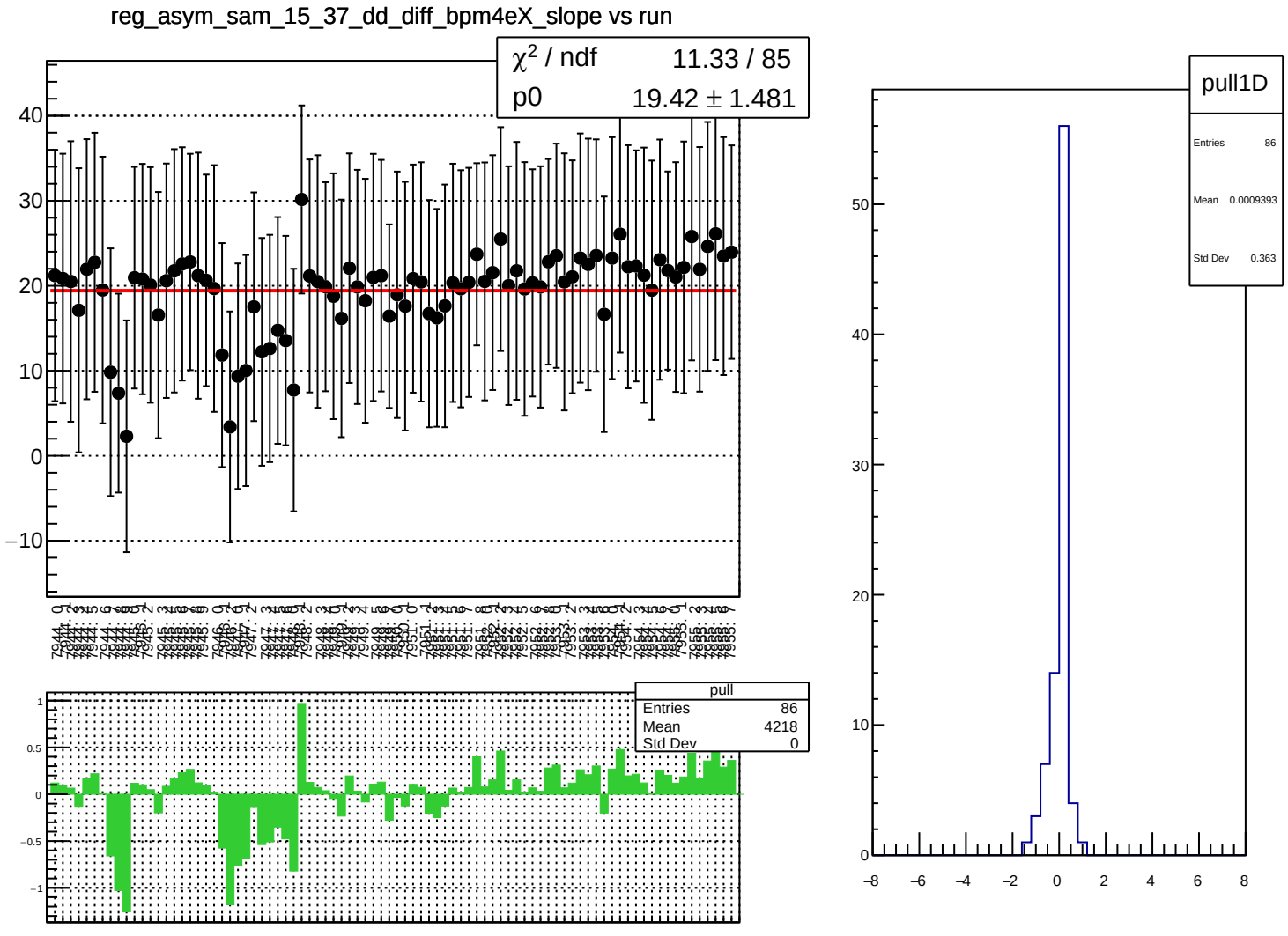

pull1D
Entries 86
Mean −0.005209
Std Dev 0.2954

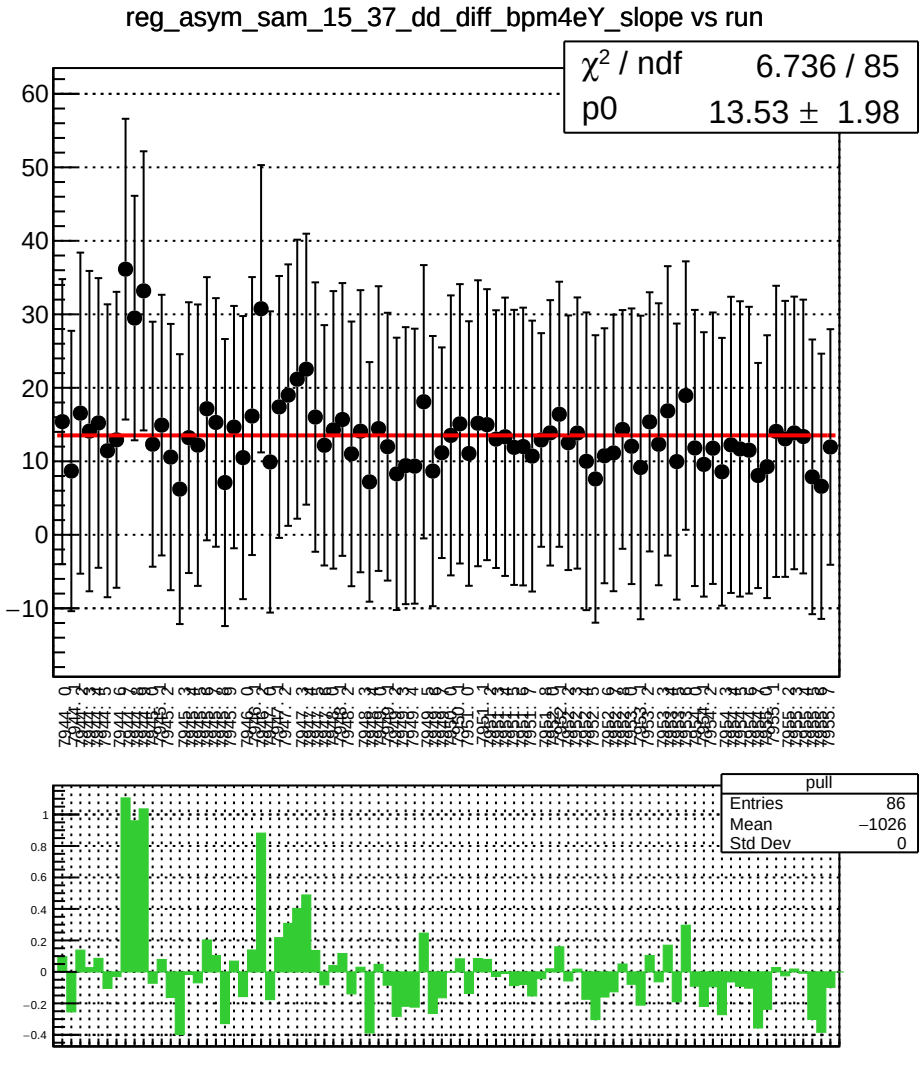

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 8.091 / 85
p0 0.1204 ± 0.03853
pull
Entries 86
Mean −200.2
Std Dev 0
pull1D
Entries 86
Mean −0.005967
Std Dev 0.3067

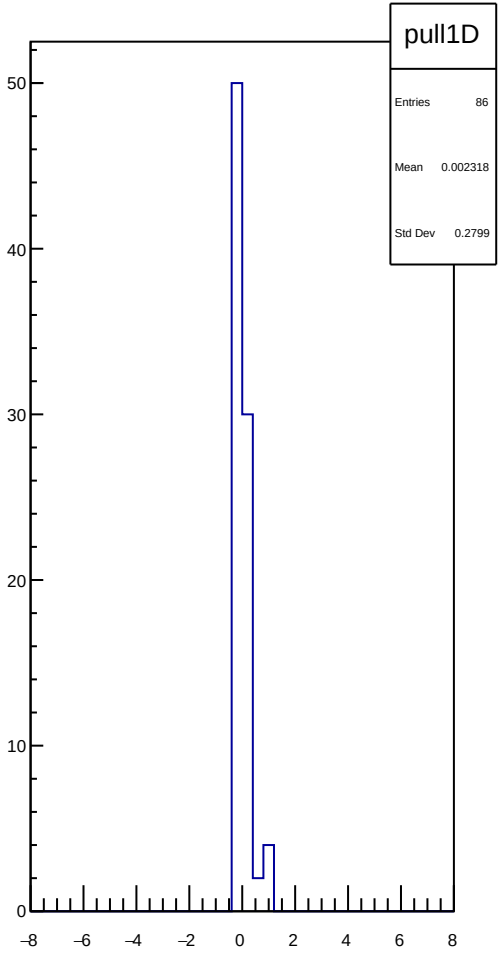

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 11.79 / 85
p0 26.23 ± 1.669
pull
Entries 86
Mean −1694
Std Dev 0

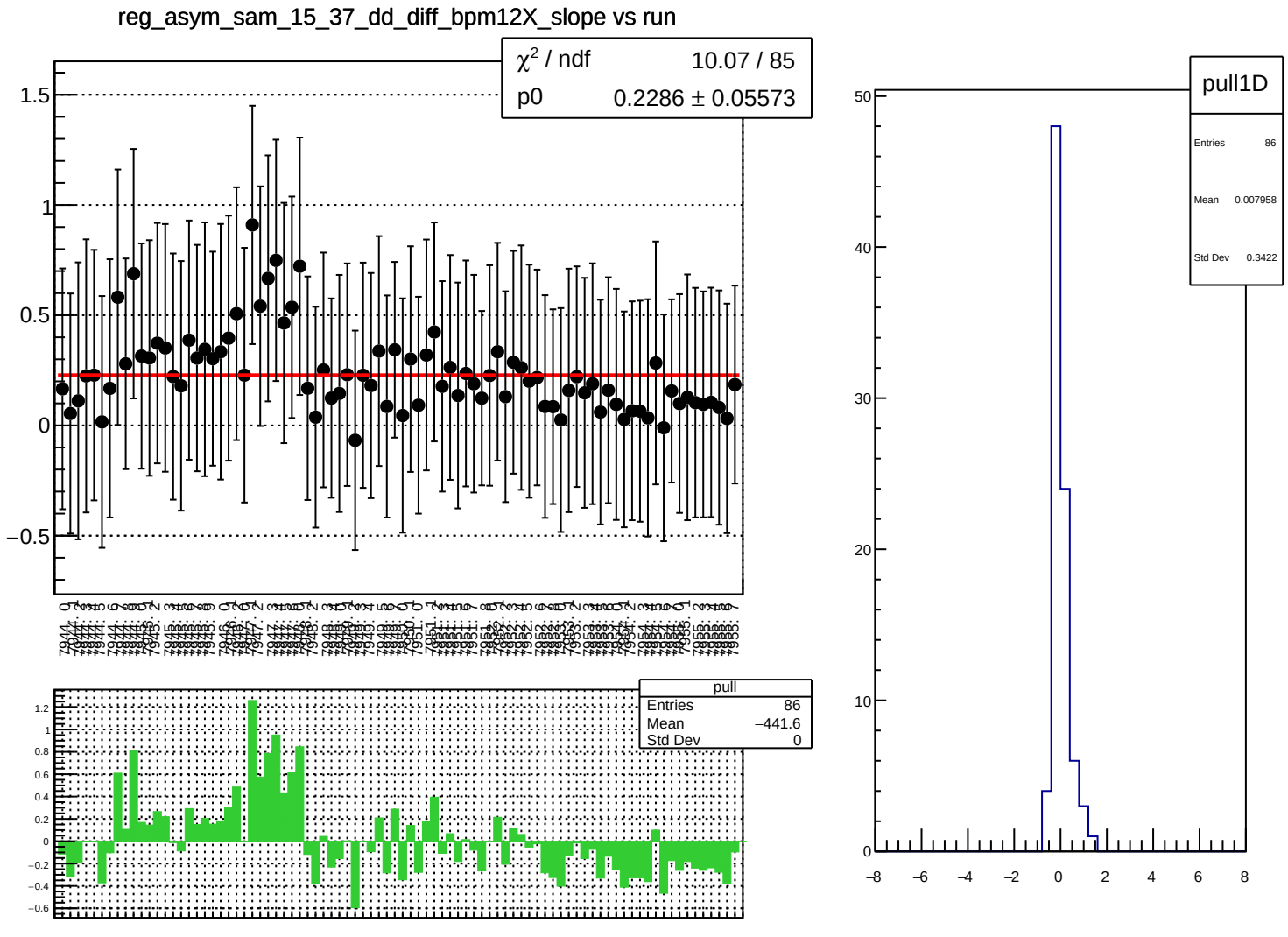

pull1D
Entries 86
Mean 0.002478
Std Dev 0.3703

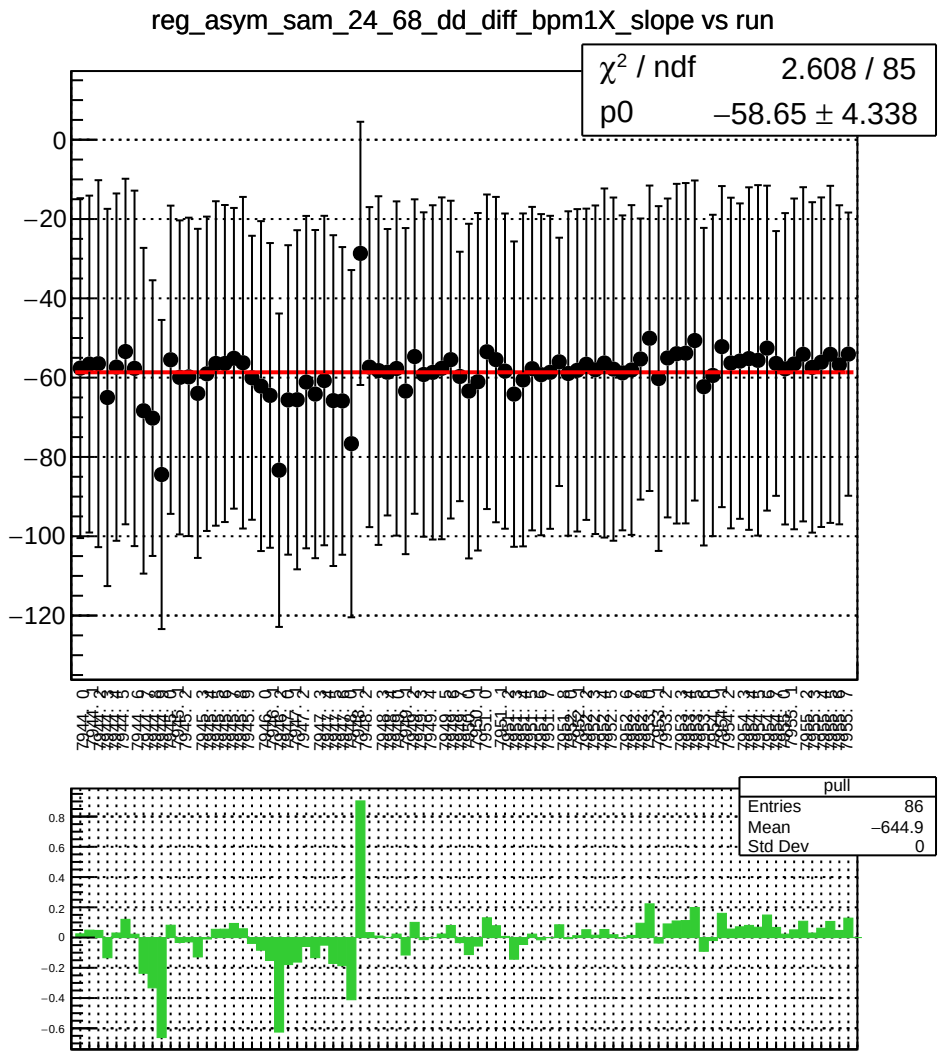

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.831 / 85
p0 9.263 ± 1.722
pull
Entries 86
Mean −893.2
Std Dev 0
pull1D
Entries 86
Mean −0.002051
Std Dev 0.2818

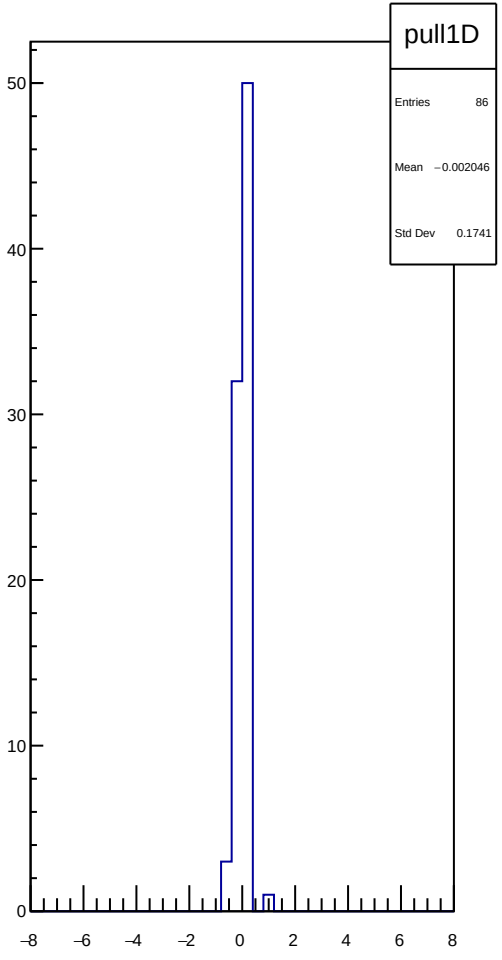

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.33 / 85
p0 19.42 ± 1.481
pull
Entries 86
Mean 4218
Std Dev 0
pull1D
Entries 86
Mean 0.0009393
Std Dev 0.363

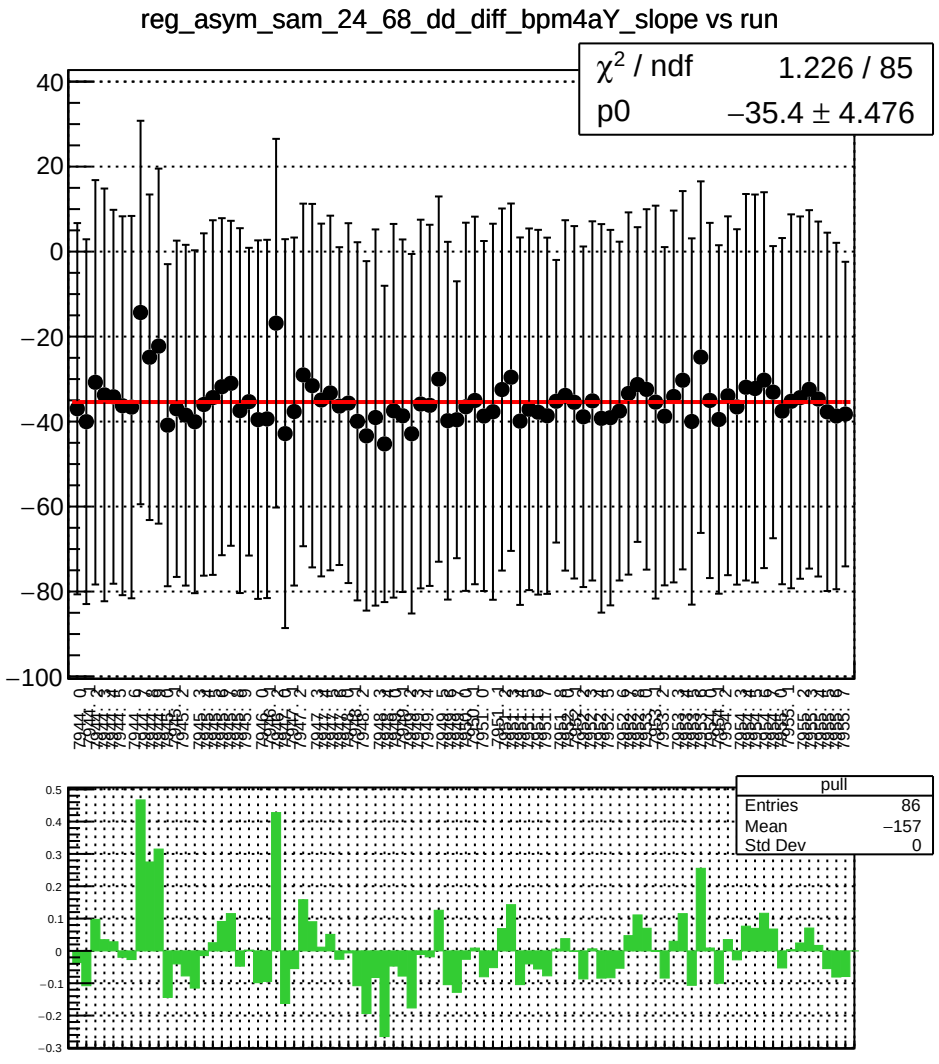

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.736 / 85
p0 13.53 ± 1.98
pull
Entries 86
Mean −1026
Std Dev 0

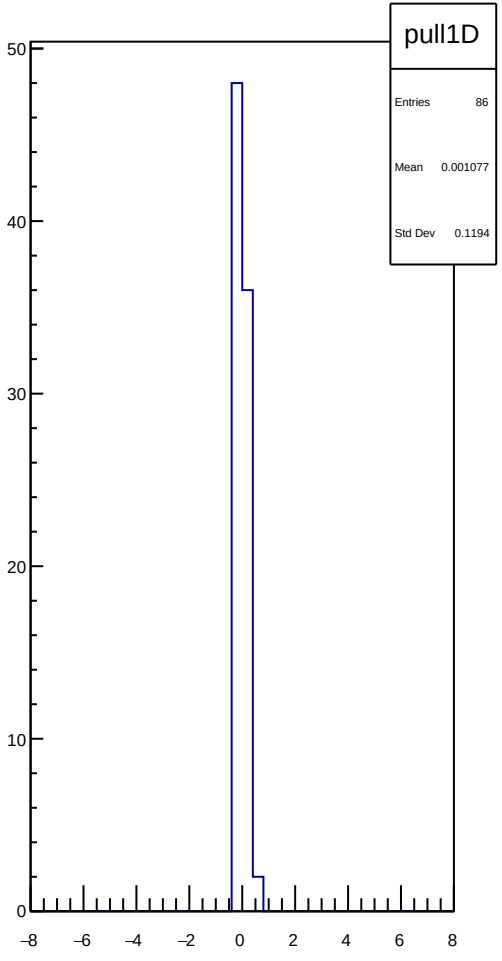

pull1D
Entries 86
Mean 0.002318
Std Dev 0.2799

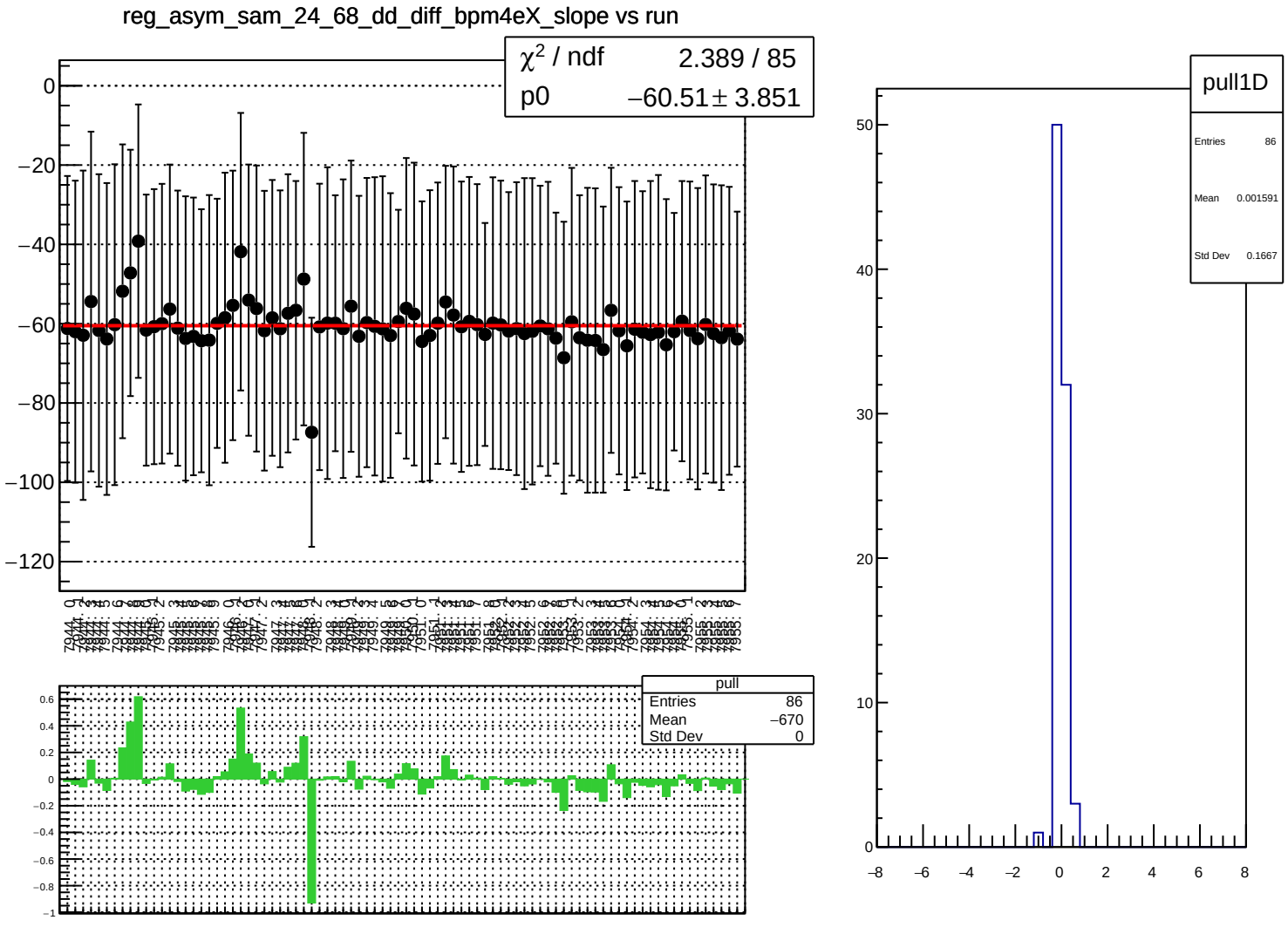

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 10.07 / 85
p0 0.2286 ± 0.05573
pull
Entries 86
Mean −441.6
Std Dev 0
pull1D
Entries 86
Mean 0.007958
Std Dev 0.3422

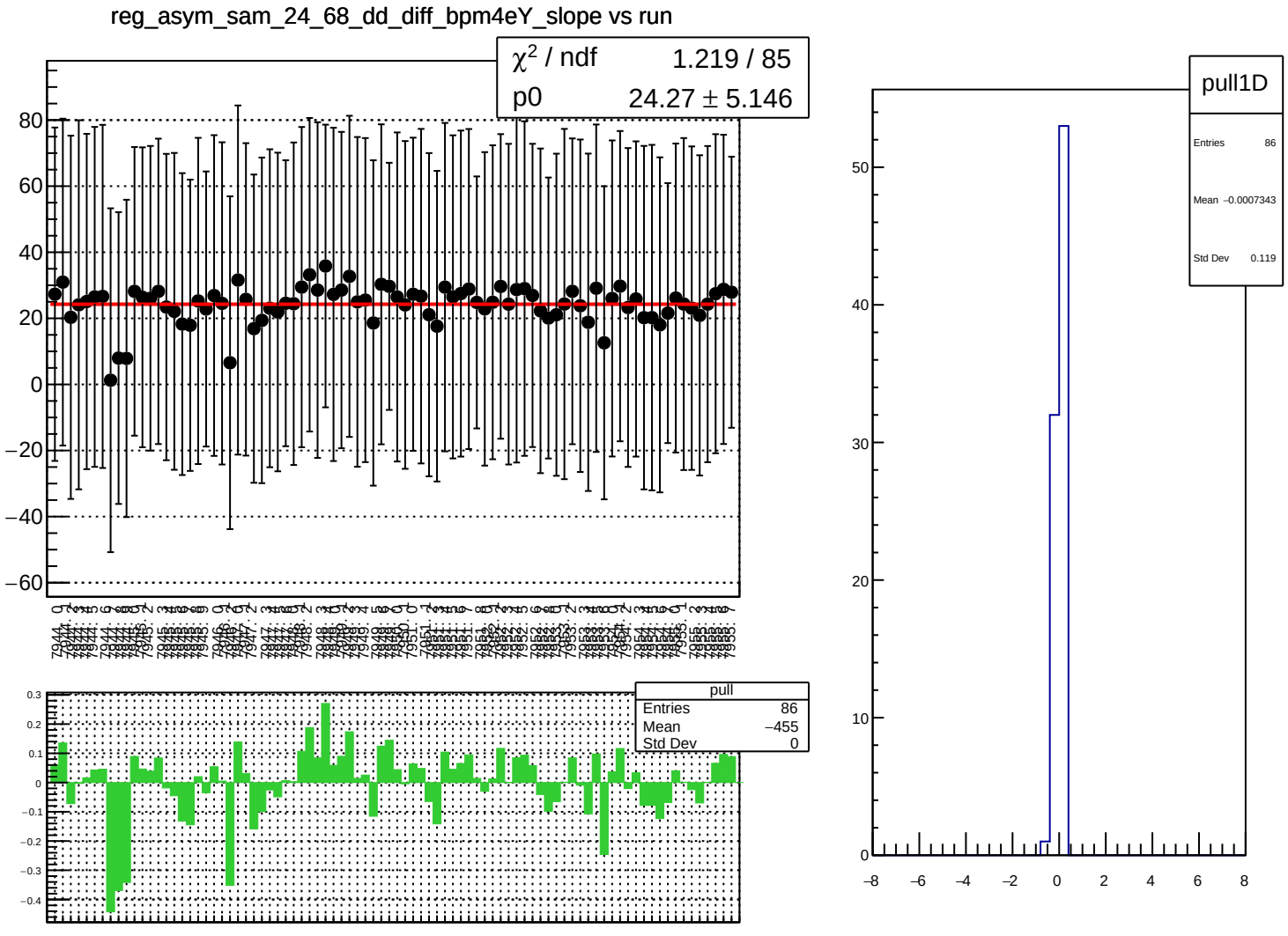

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 2.608 / 85
p0 −58.65 ± 4.338
pull
Entries 86
Mean −644.9
Std Dev 0

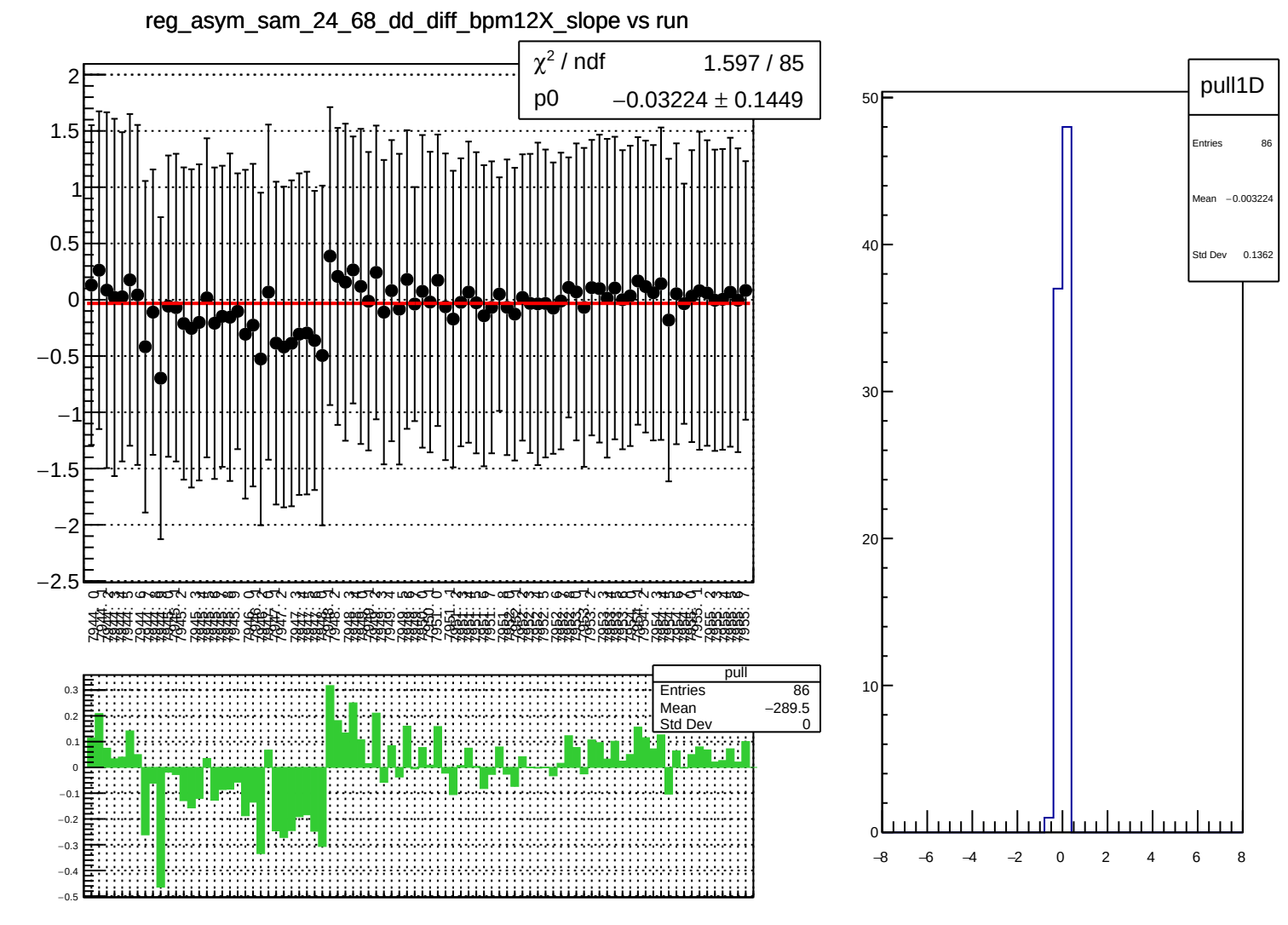

pull1D
Entries 86
Mean −0.002046
Std Dev 0.1741

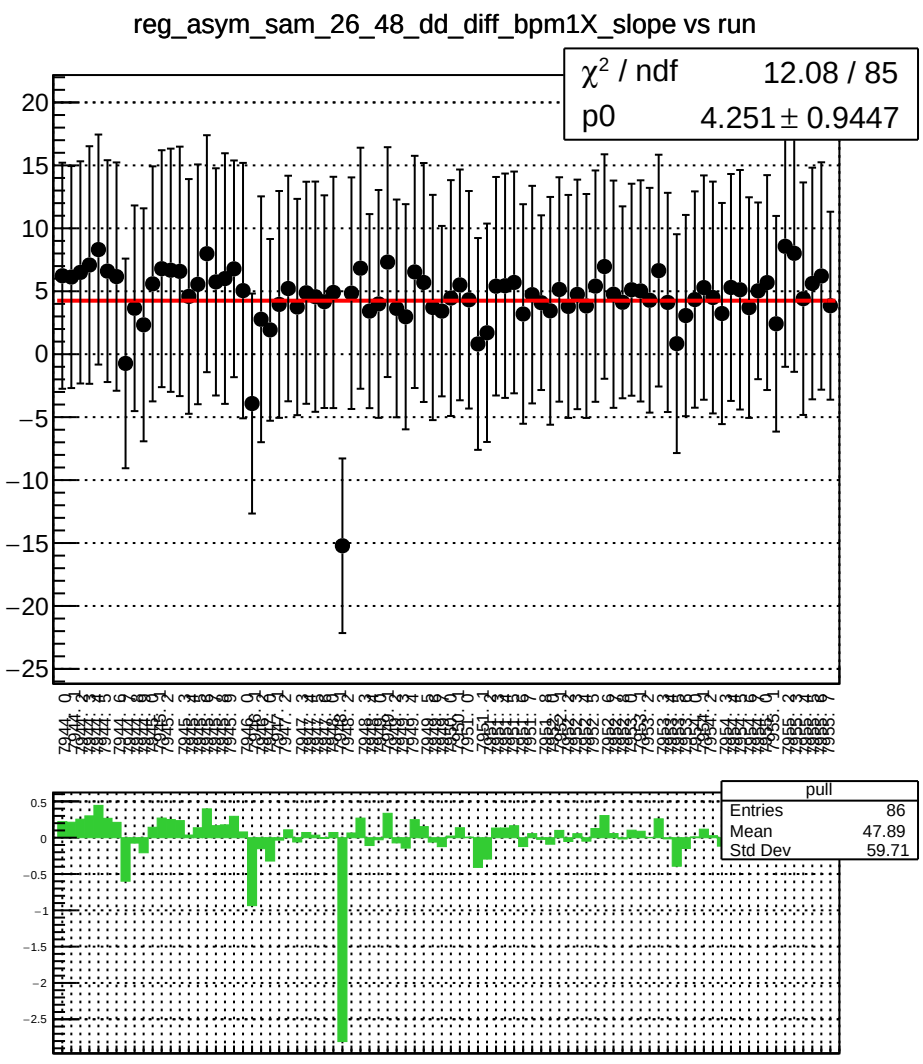

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.226 / 85
p0 −35.4 ± 4.476
pull
Entries 86
Mean −157
Std Dev 0

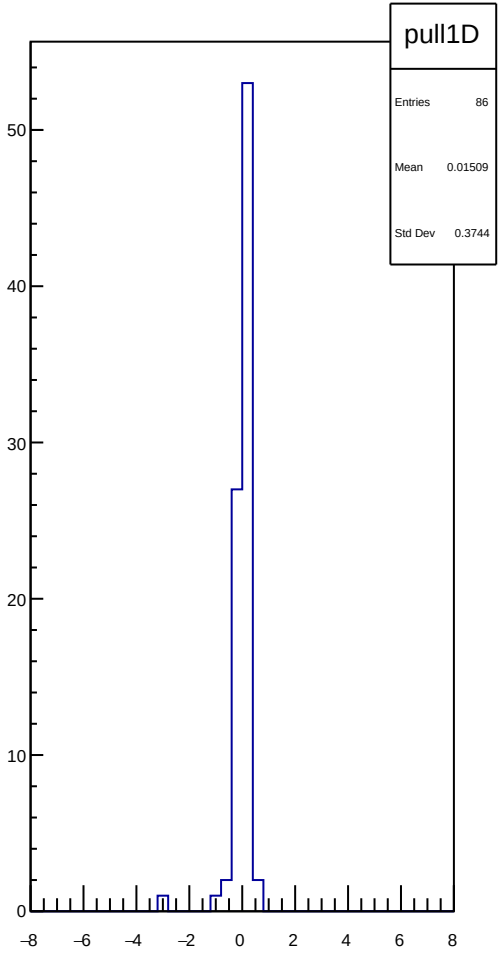

pull1D
Entries 86
Mean 0.001077
Std Dev 0.1194

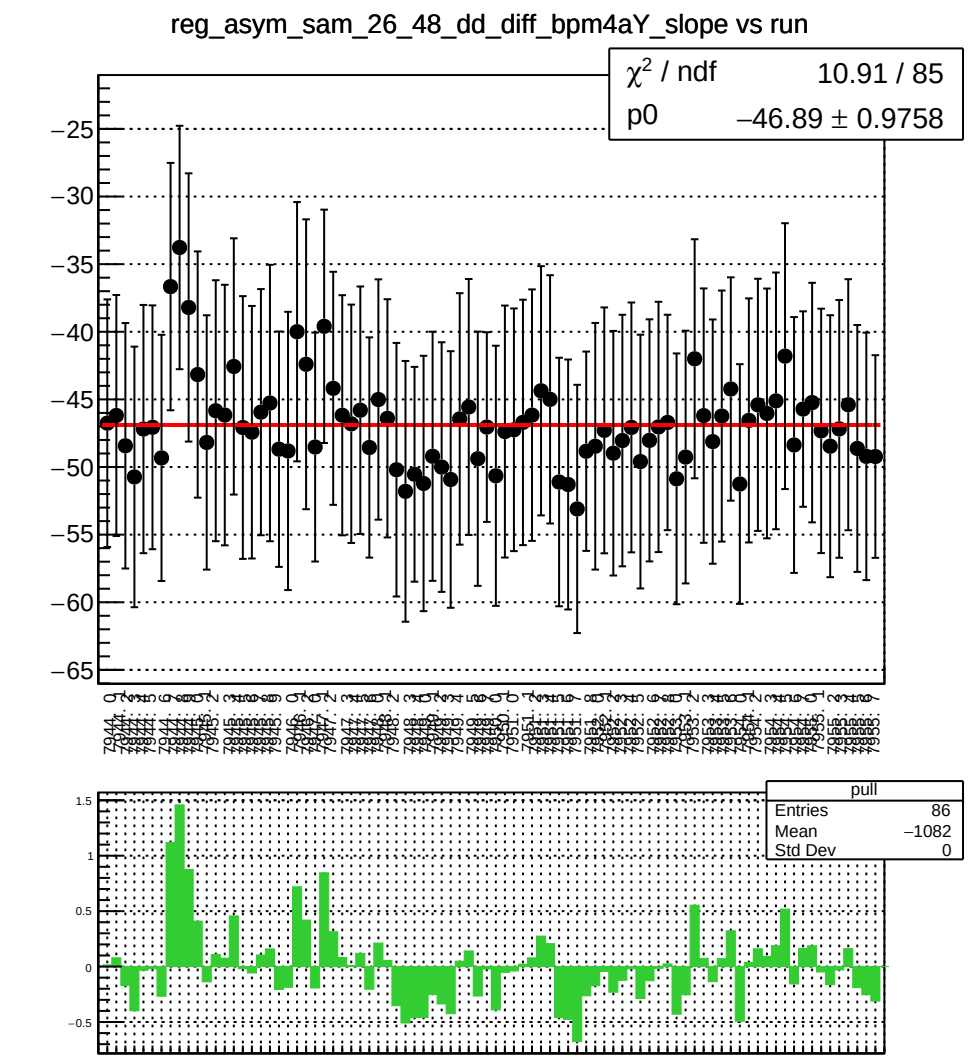

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.389 / 85
p0 −60.51 ± 3.851
pull
Entries 86
Mean −670
Std Dev 0
pull1D
Entries 86
Mean 0.001591
Std Dev 0.1667

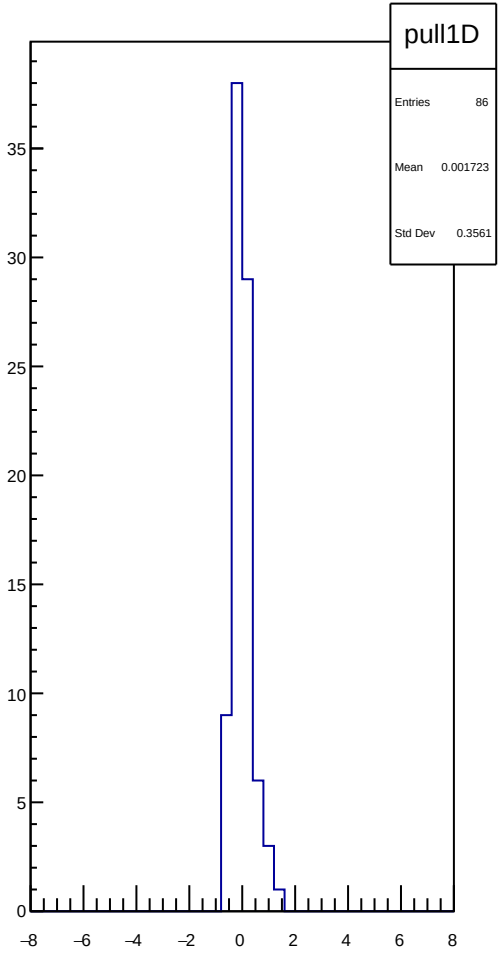

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.219 / 85
p0 24.27 ± 5.146
pull
Entries 86
Mean −455
Std Dev 0
pull1D
Entries 86
Mean −0.0007343
Std Dev 0.119

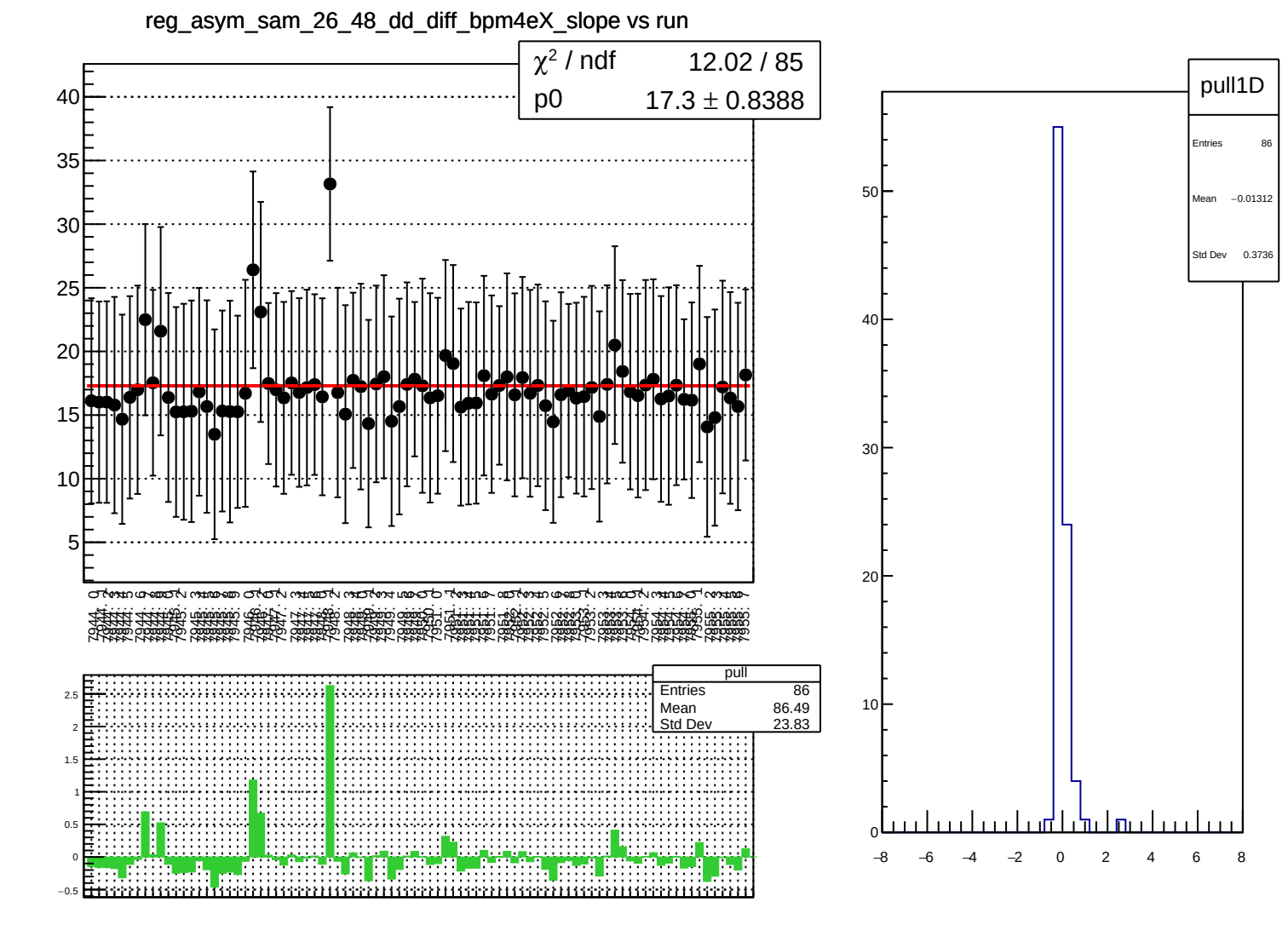

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1.597 / 85
p0 −0.03224 ± 0.1449
pull
Entries 86
Mean −289.5
Std Dev 0
pull1D
Entries 86
Mean −0.003224
Std Dev 0.1362

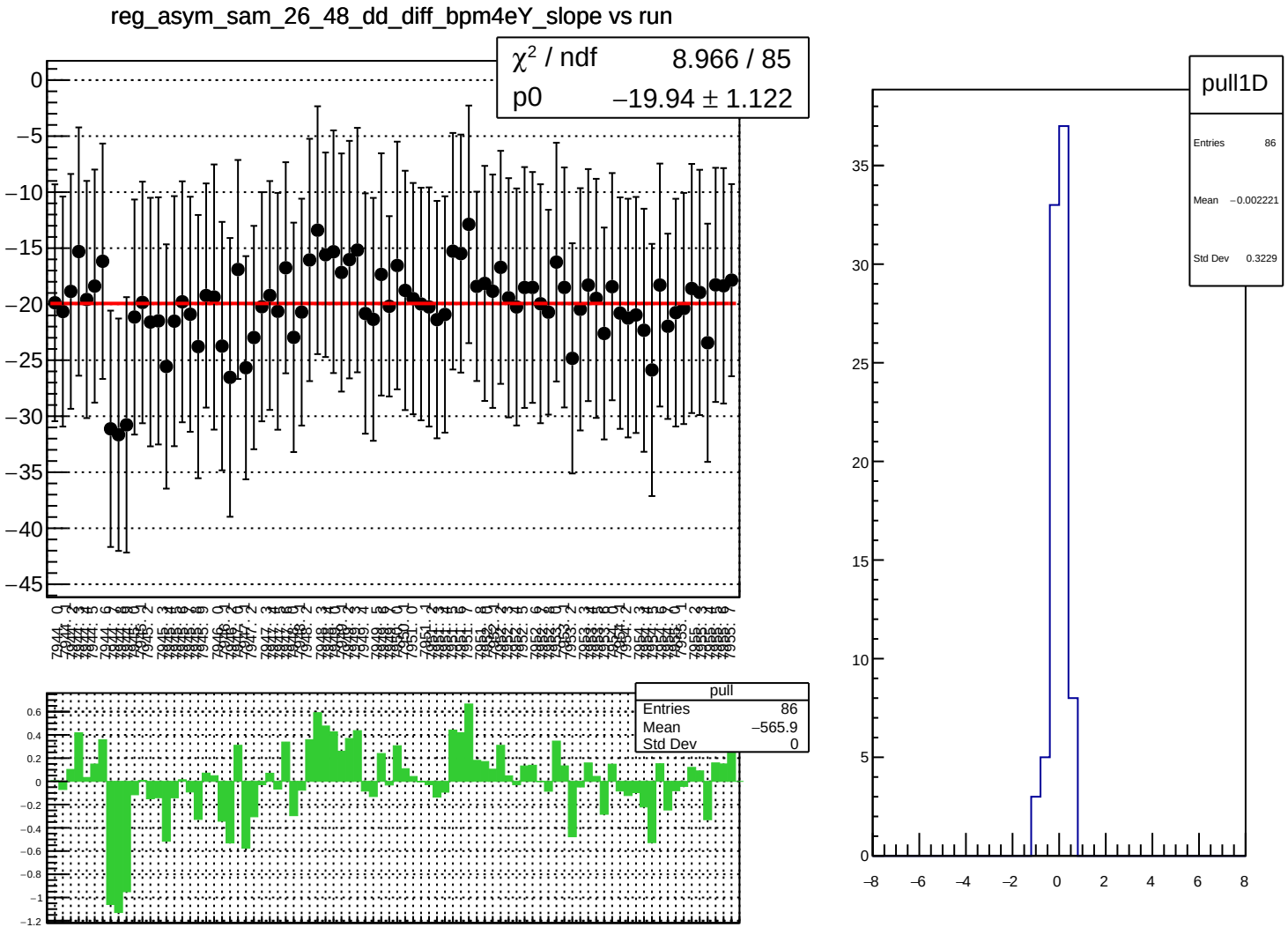

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 12.08 / 85
p0 4.251 ± 0.9447
pull
Entries 86
Mean 47.89
Std Dev 59.71

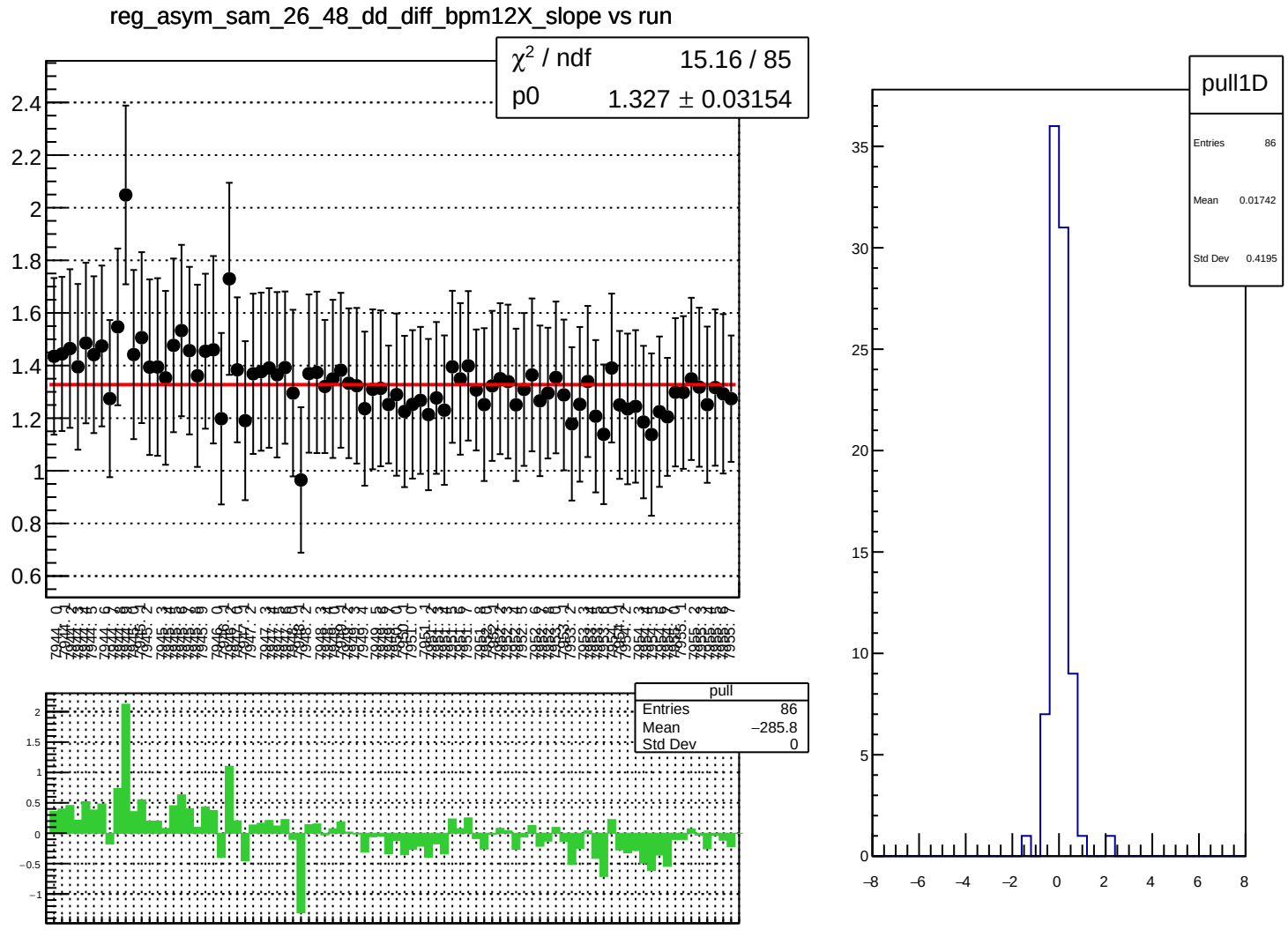

pull1D
Entries 86
Mean 0.01509
Std Dev 0.3744

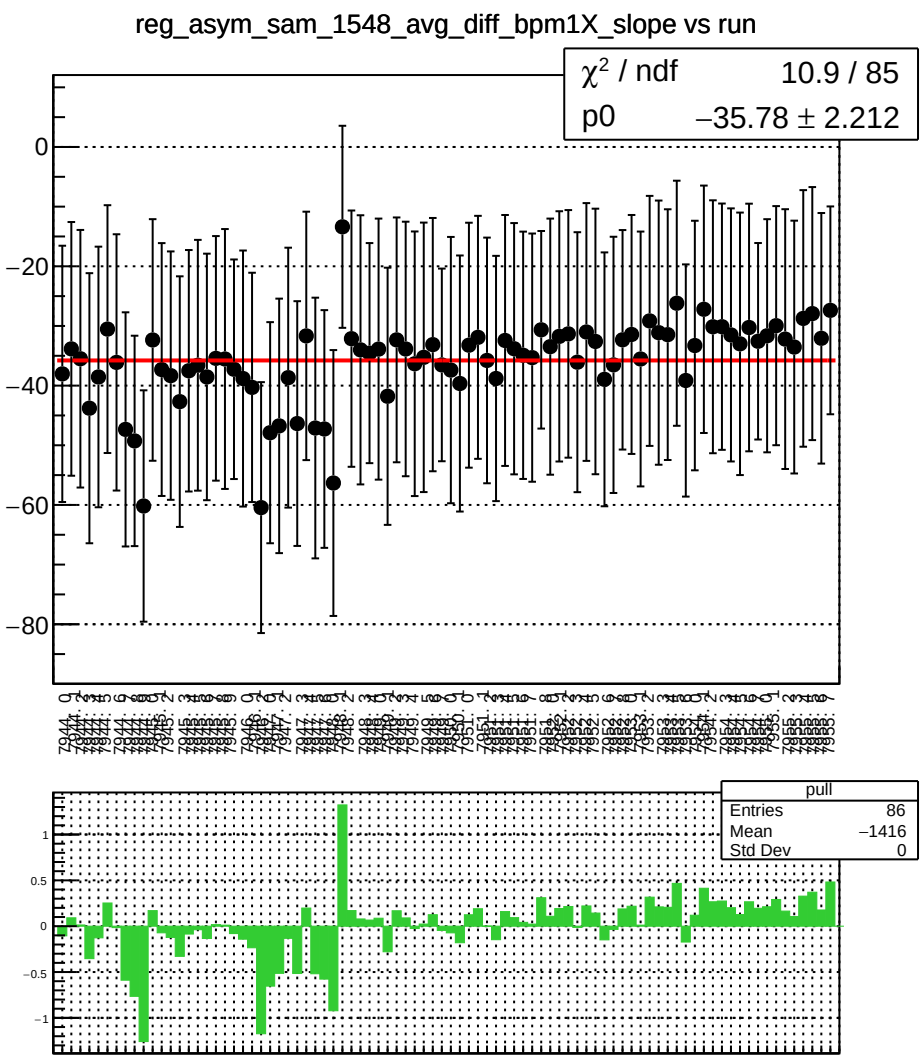

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.91 / 85
p0 −46.89 ± 0.9758
pull
Entries 86
Mean −1082
Std Dev 0

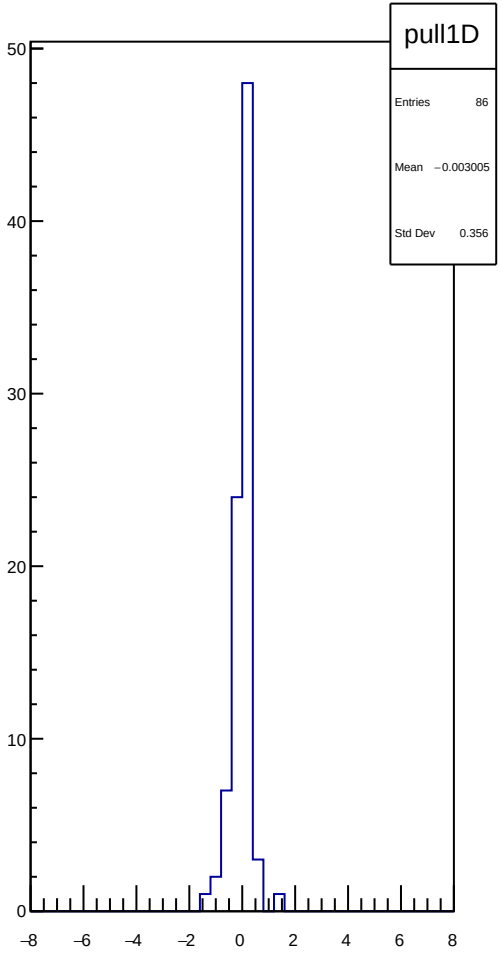

pull1D
Entries 86
Mean 0.001723
Std Dev 0.3561

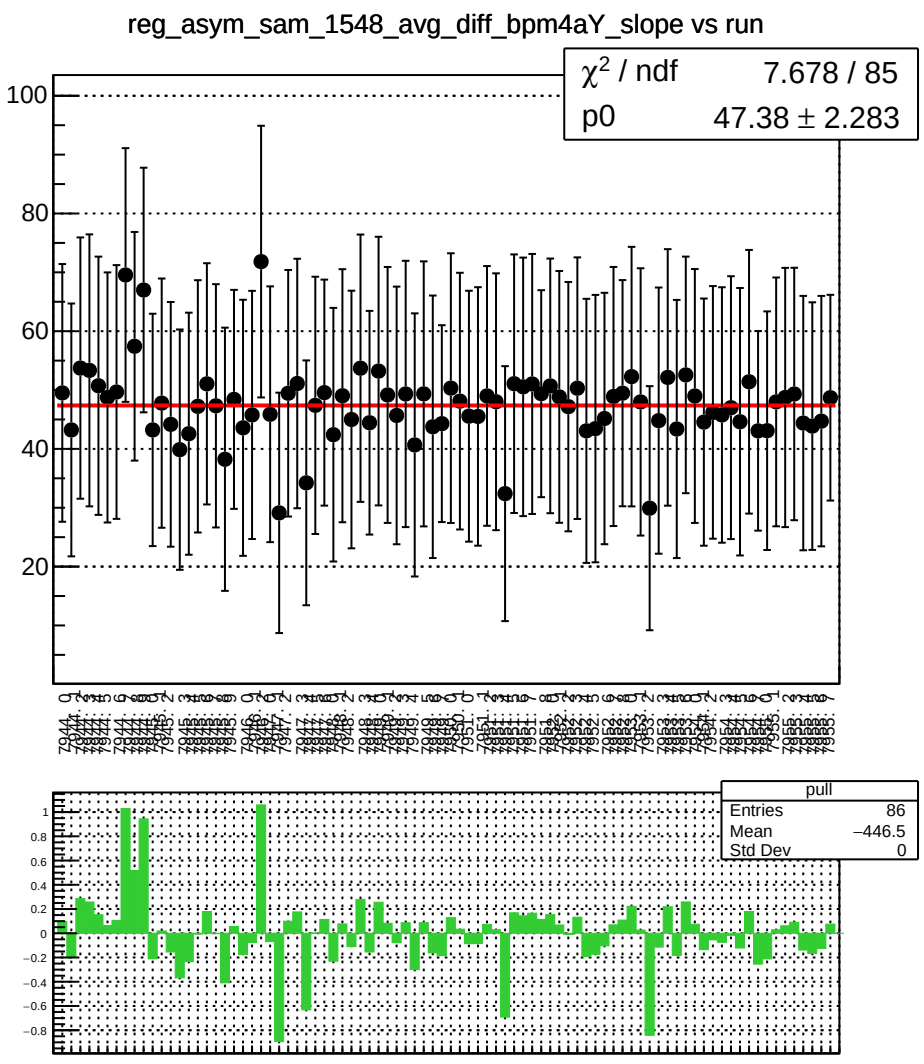

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.02 / 85
p0 17.3 ± 0.8388
pull
Entries 86
Mean 86.49
Std Dev 23.83
pull1D
Entries 86
Mean −0.01312
Std Dev 0.3736

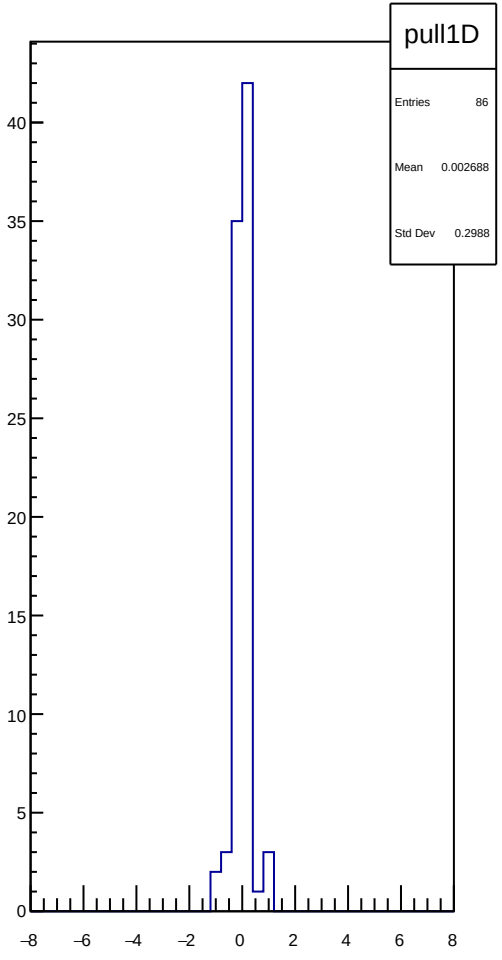

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.966 / 85
p0 −19.94 ± 1.122
pull
Entries 86
Mean −565.9
Std Dev 0
pull1D
Entries 86
Mean −0.002221
Std Dev 0.3229

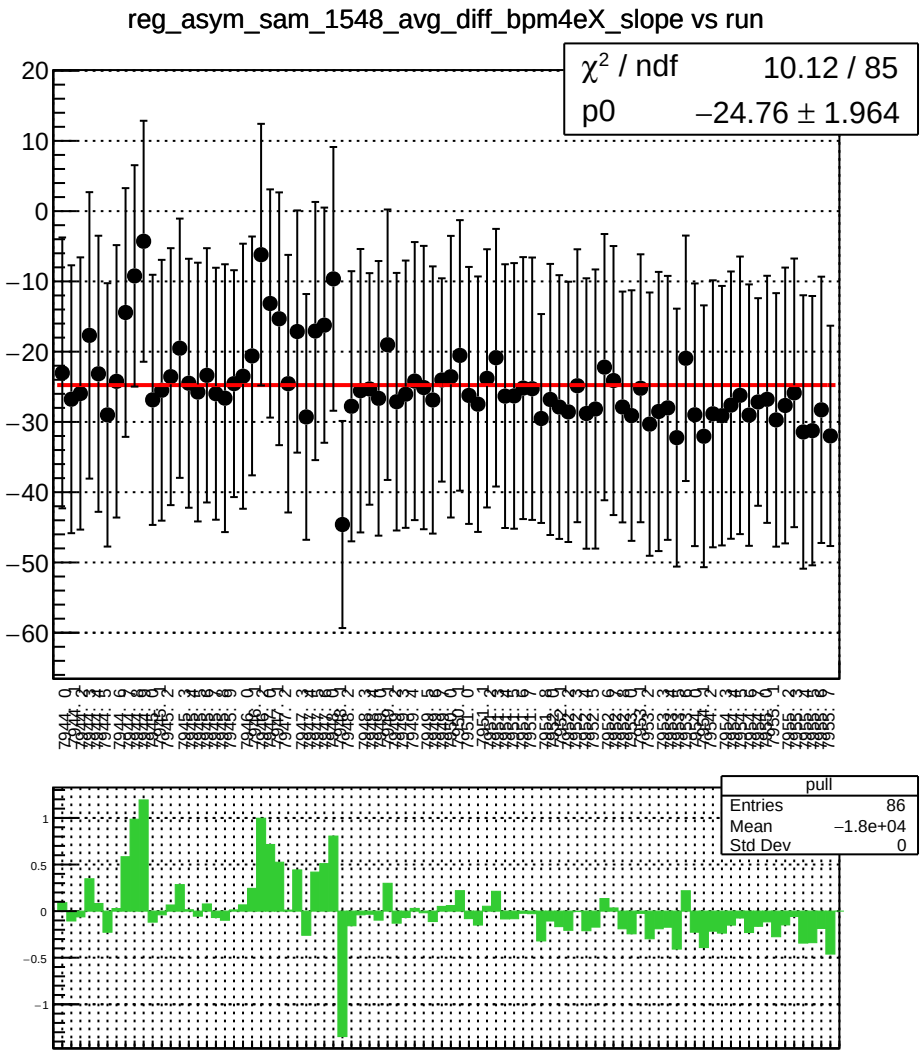

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.16 / 85
p0 1.327 ± 0.03154
pull
Entries 86
Mean −285.8
Std Dev 0
pull1D
Entries 86
Mean 0.01742
Std Dev 0.4195

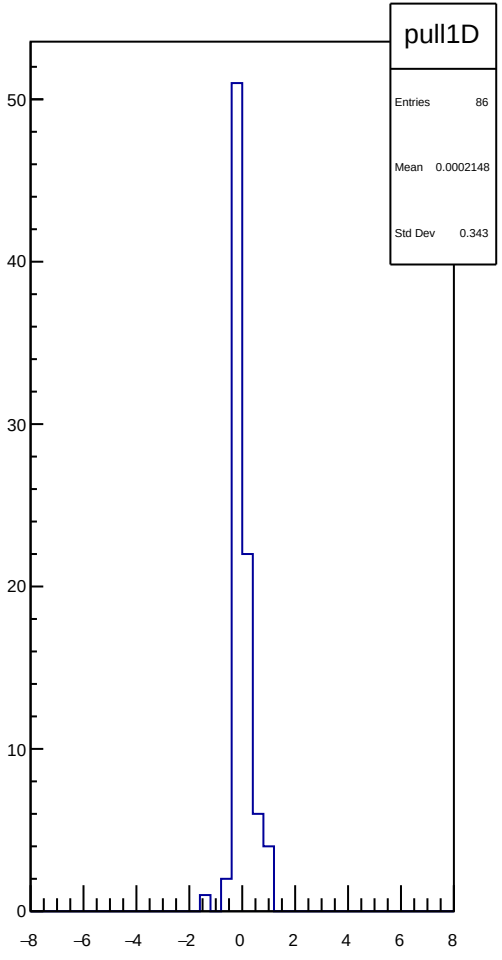

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 10.9 / 85
p0 −35.78 ± 2.212
pull
Entries 86
Mean −1416
Std Dev 0

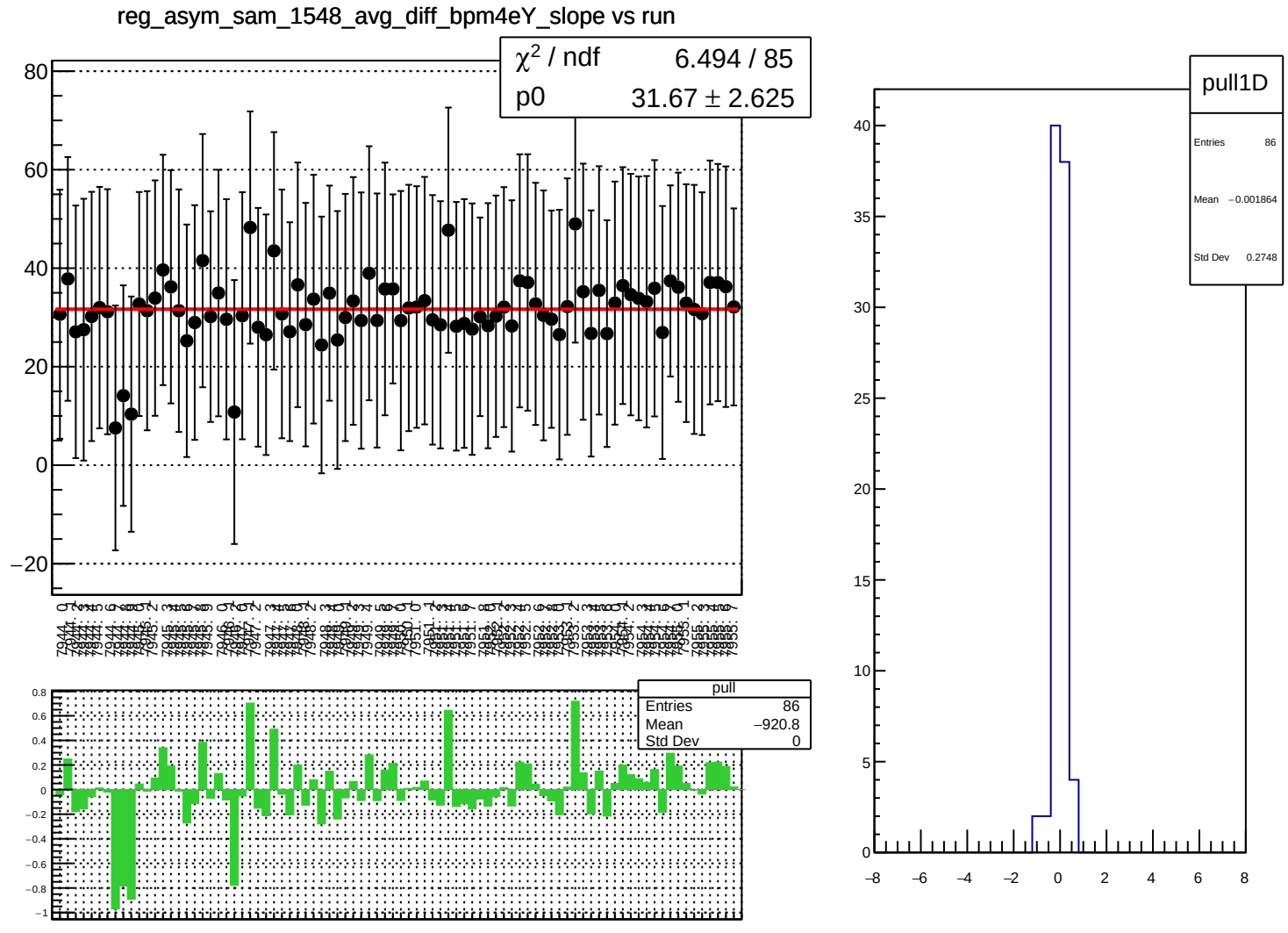

pull1D
Entries 86
Mean −0.003005
Std Dev 0.356

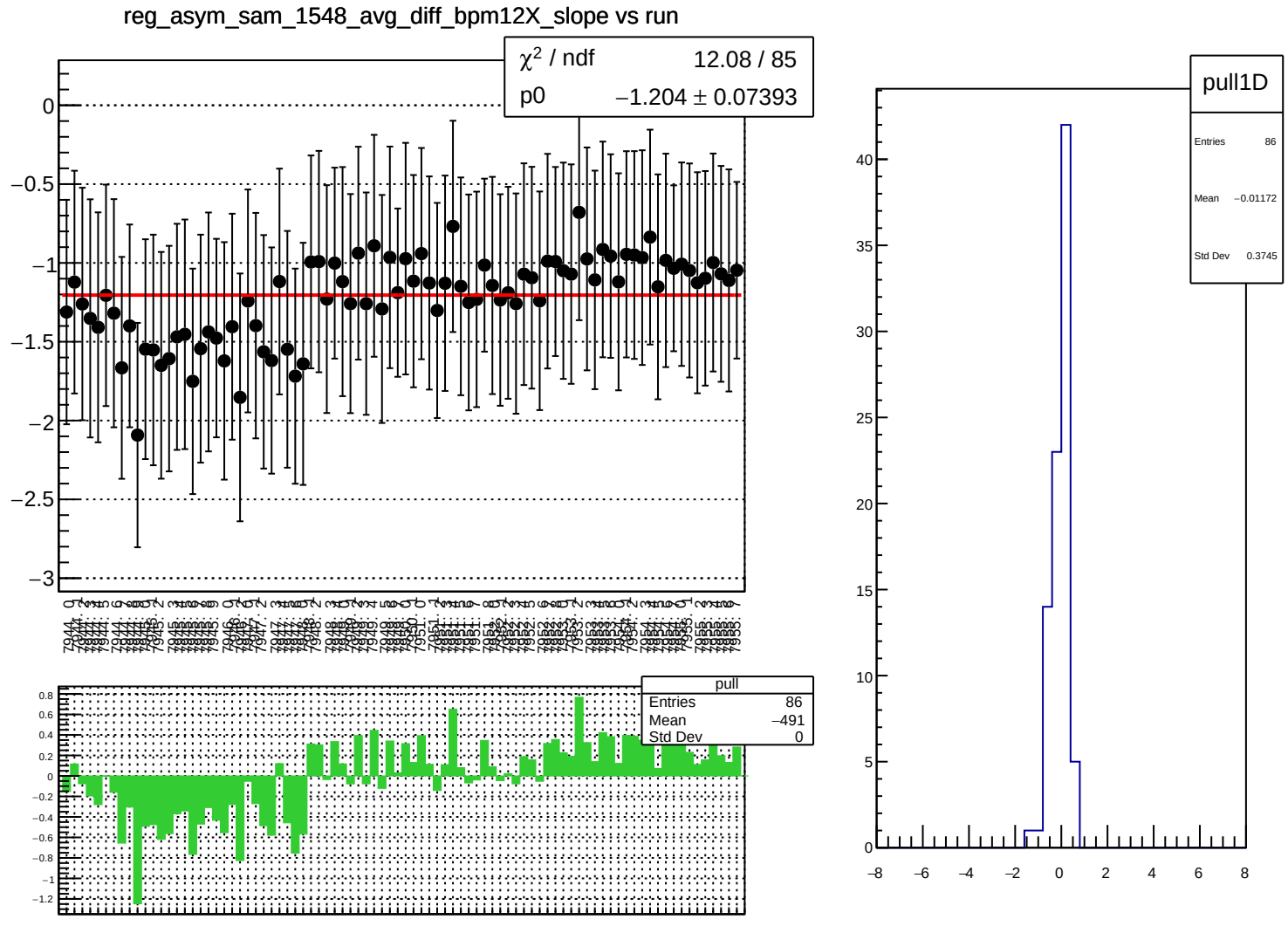

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.678 / 85
p0 47.38 ± 2.283
pull
Entries 86
Mean −446.5
Std Dev 0

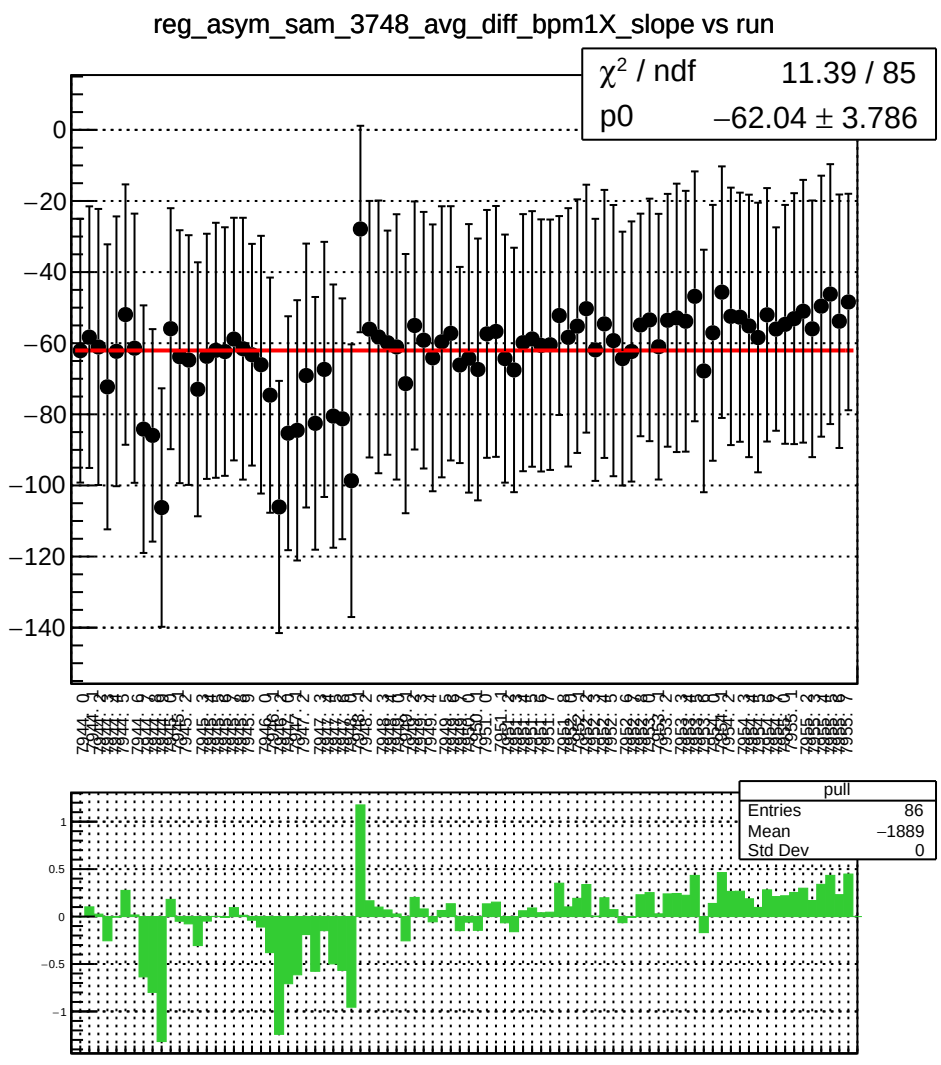

pull1D
Entries 86
Mean 0.002688
Std Dev 0.2988

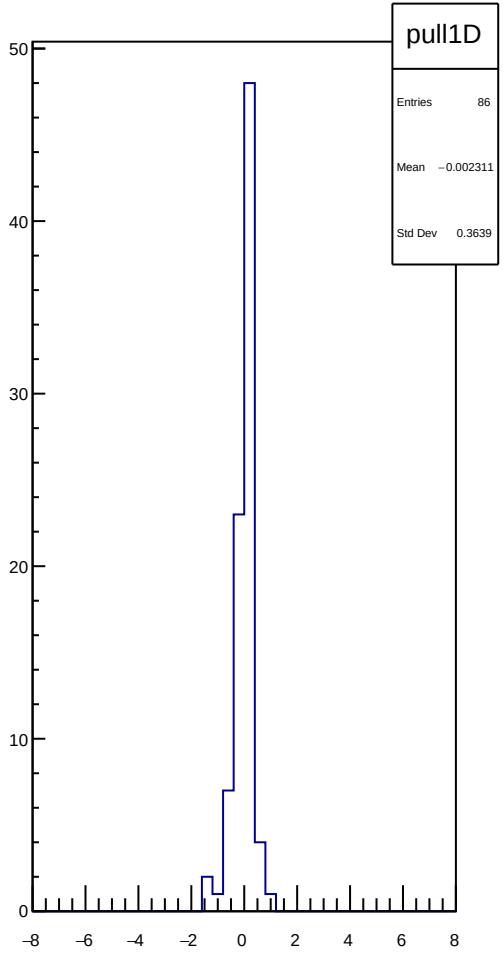

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.12 / 85
p0 −24.76 ± 1.964
pull
Entries 86
Mean −1.8e+04
Std Dev 0

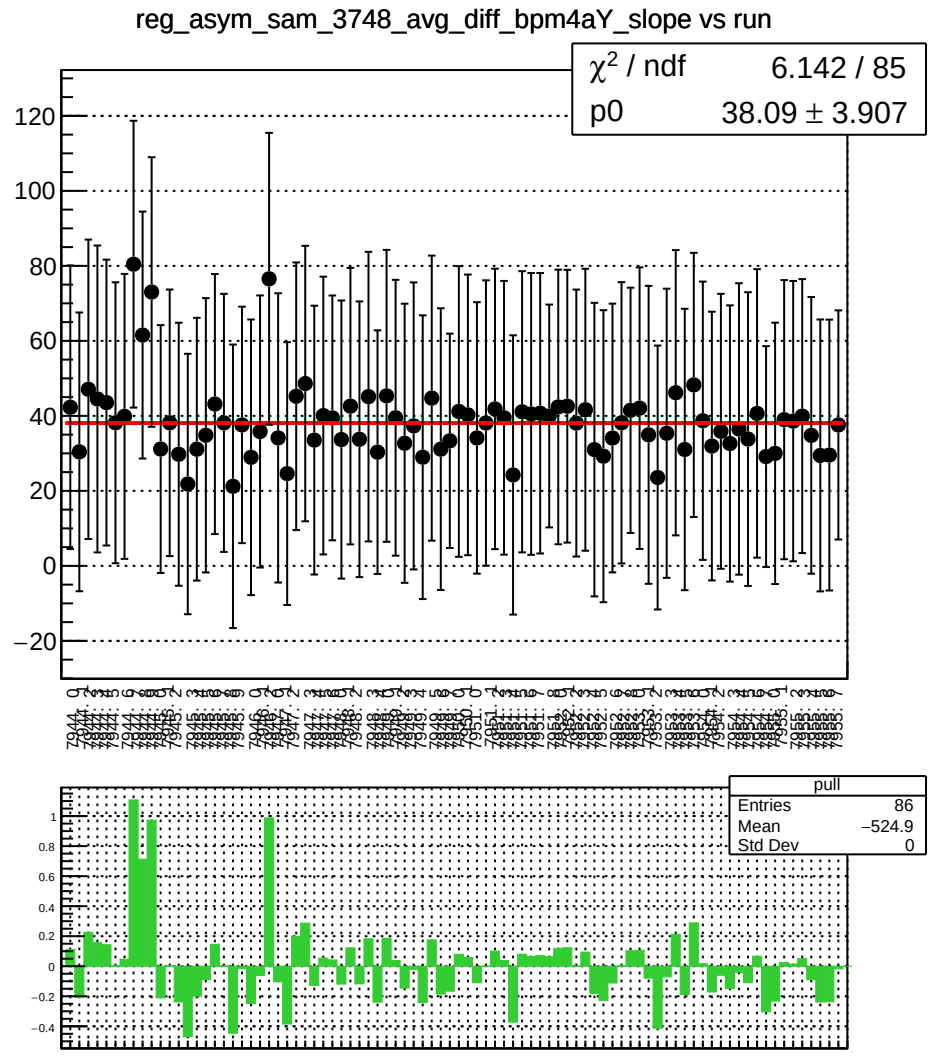

pull1D
Entries 86
Mean 0.0002148
Std Dev 0.343

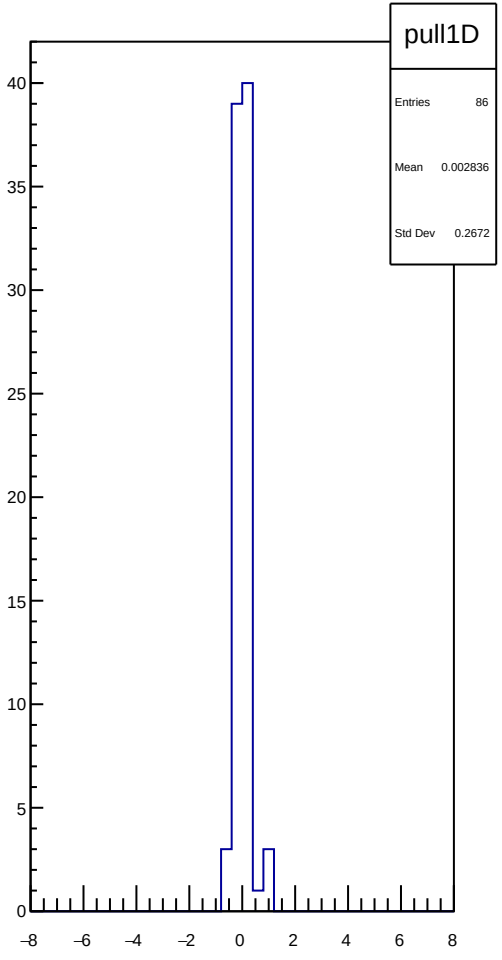

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.494 / 85
p0 31.67 ± 2.625
pull
Entries 86
Mean −920.8
Std Dev 0
pull1D
Entries 86
Mean −0.001864
Std Dev 0.2748

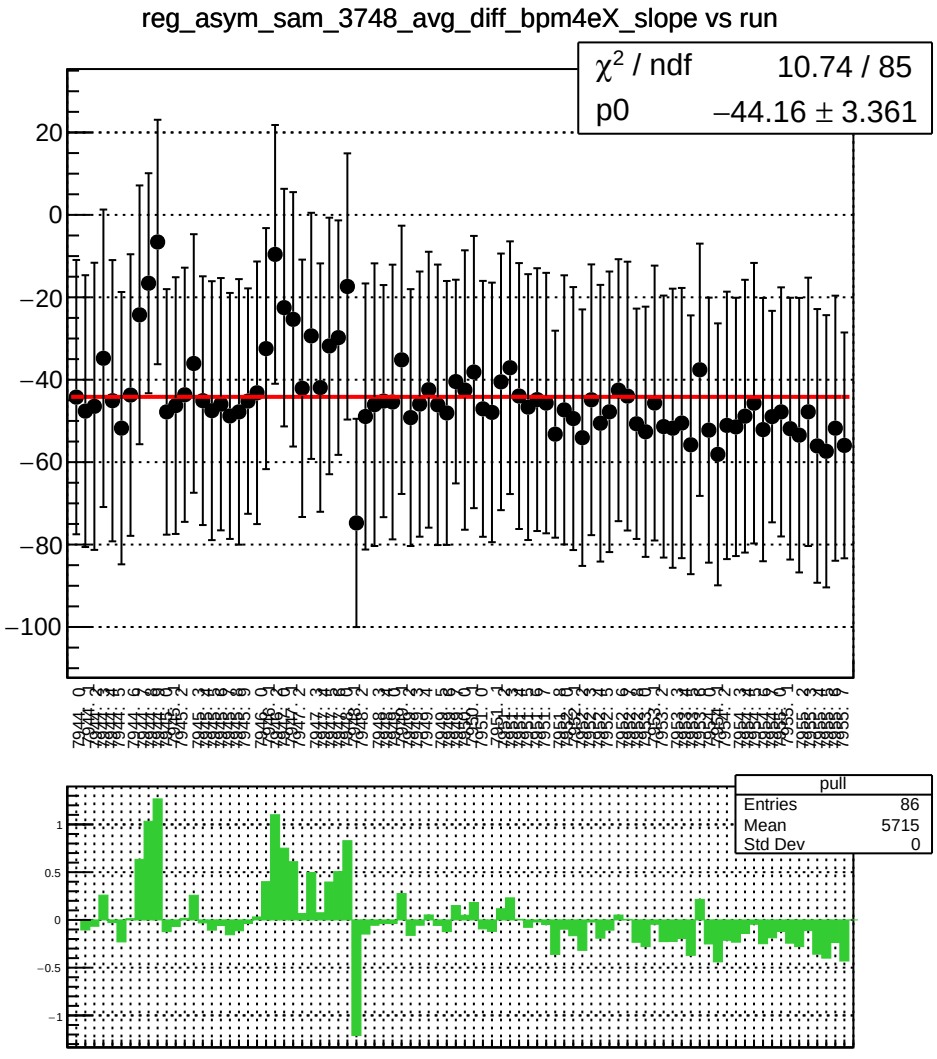

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 12.08 / 85
p0 −1.204 ± 0.07393
pull
Entries 86
Mean −491
Std Dev 0
pull1D
Entries 86
Mean −0.01172
Std Dev 0.3745

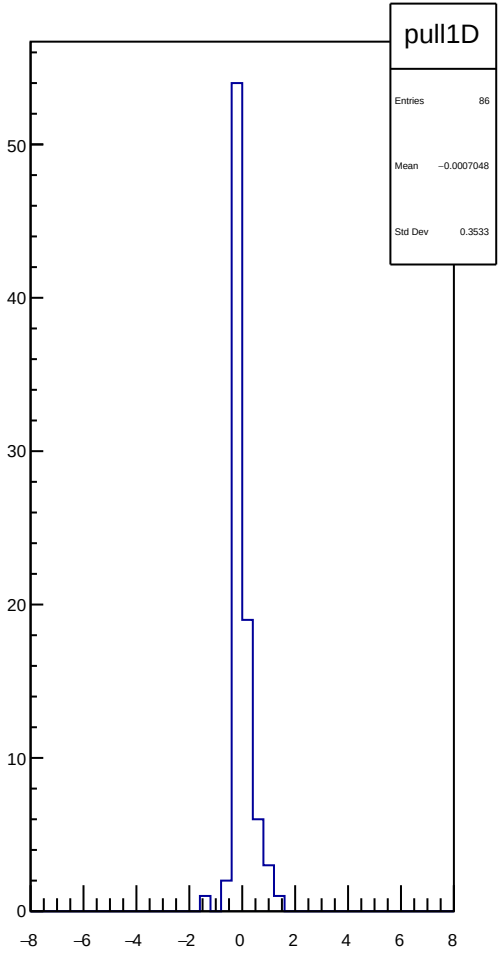

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 11.39 / 85
p0 −62.04 ± 3.786
pull
Entries 86
Mean −1889
Std Dev 0

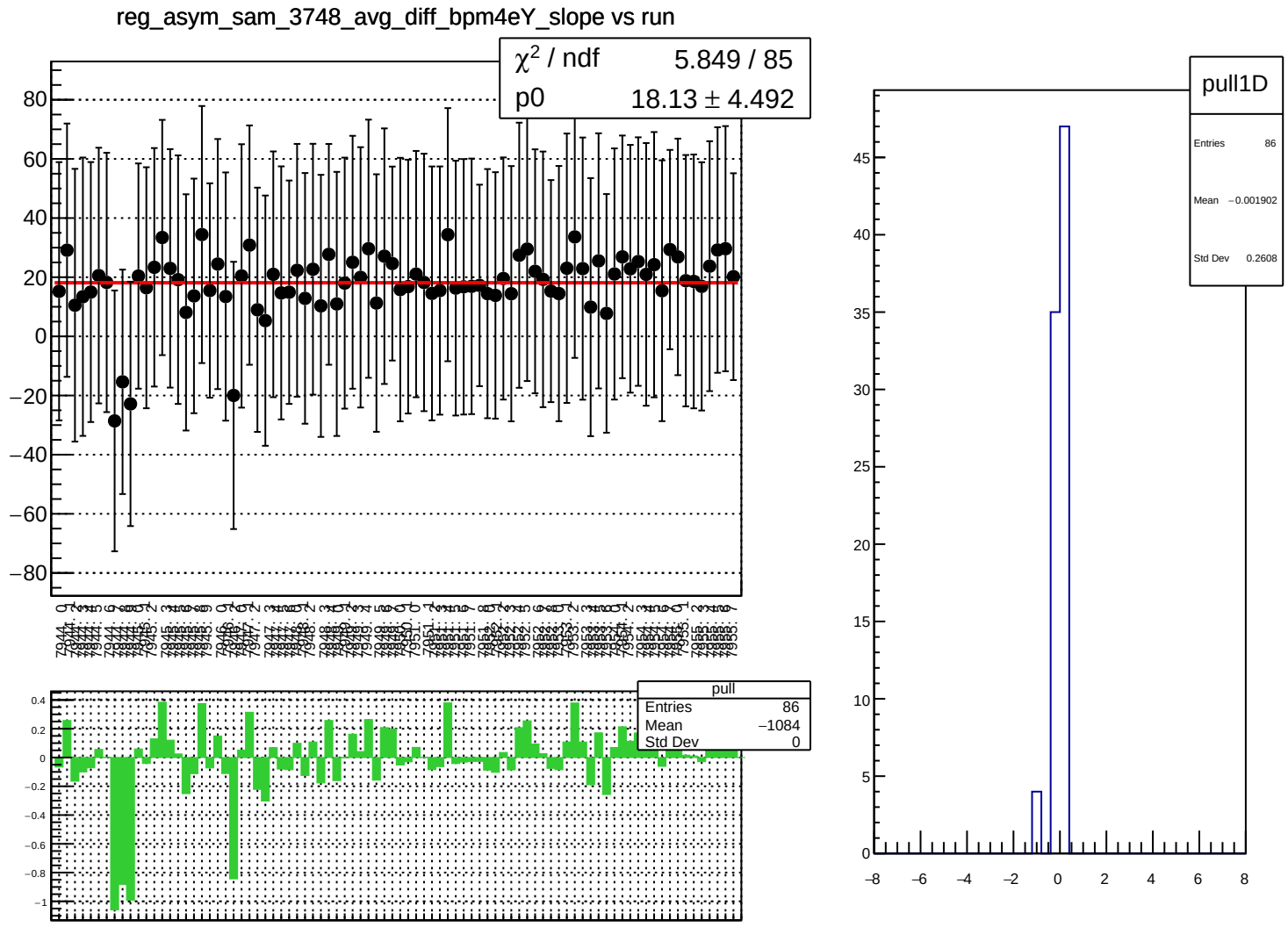

pull1D
Entries 86
Mean −0.002311
Std Dev 0.3639

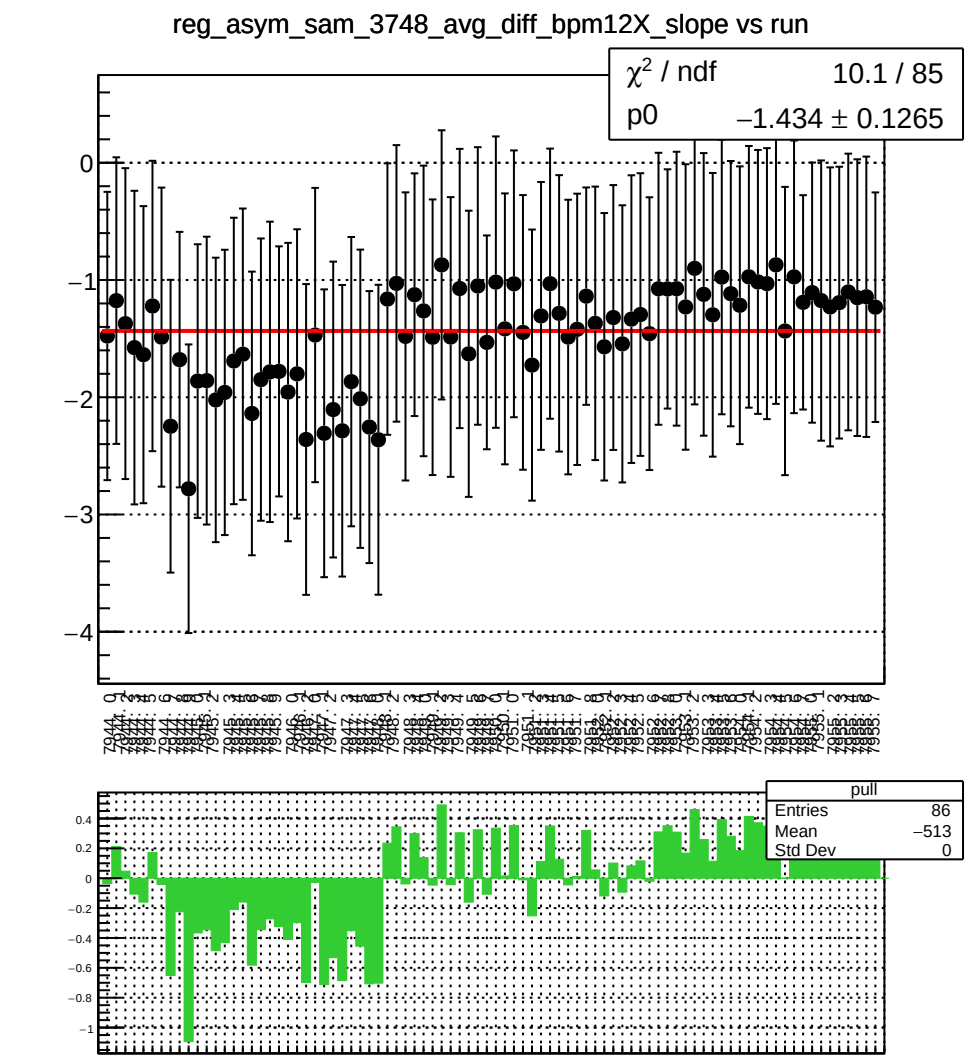

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.142 / 85
p0 38.09 ± 3.907
pull
Entries 86
Mean −524.9
Std Dev 0

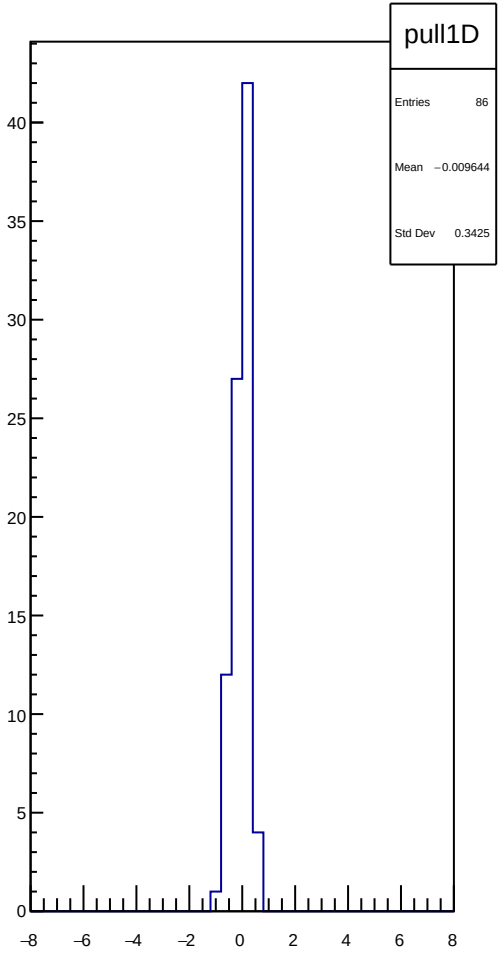

pull1D
Entries 86
Mean 0.002836
Std Dev 0.2672

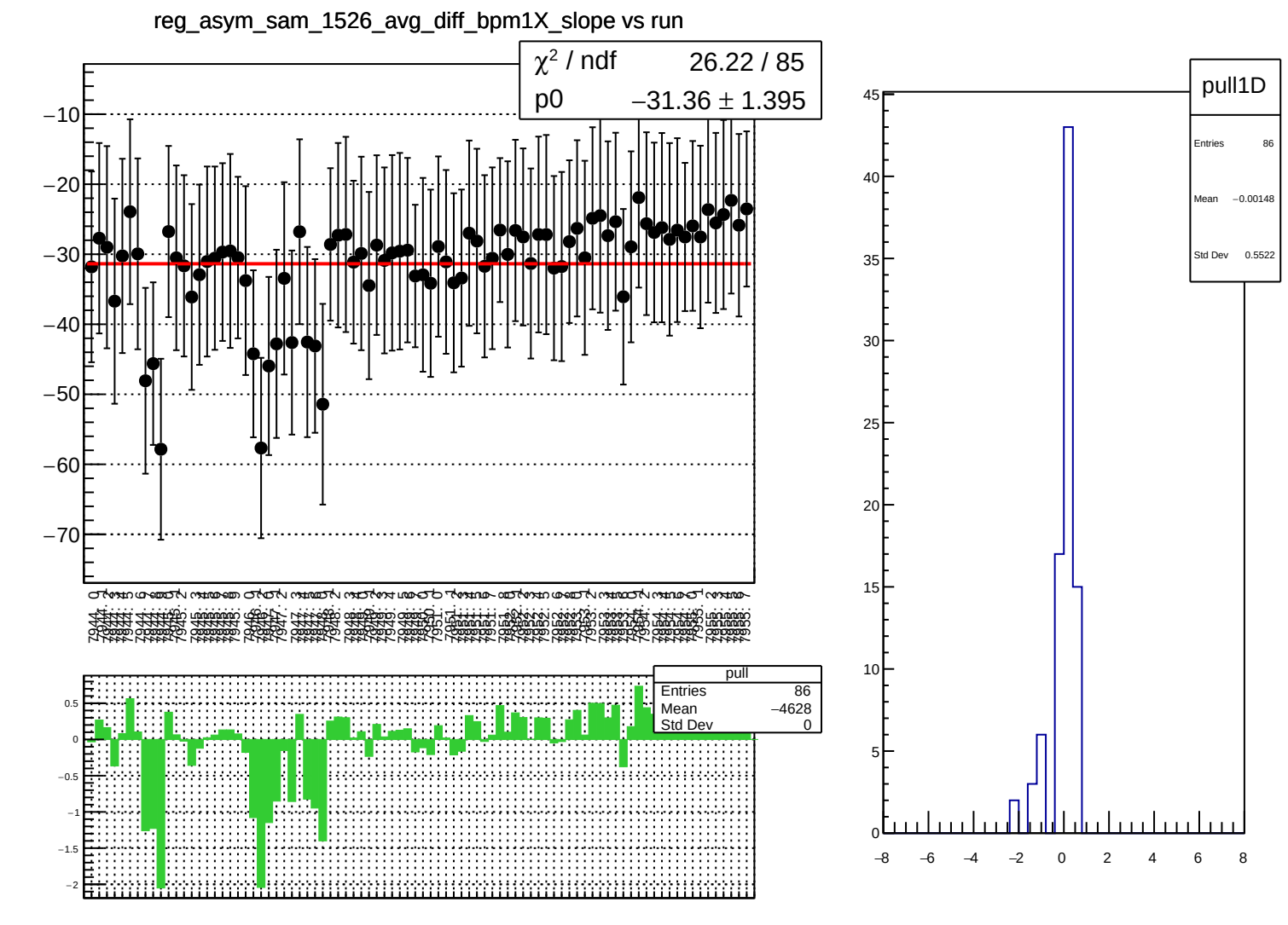

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.74 / 85
p0 −44.16 ± 3.361
pull
Entries 86
Mean 5715
Std Dev 0

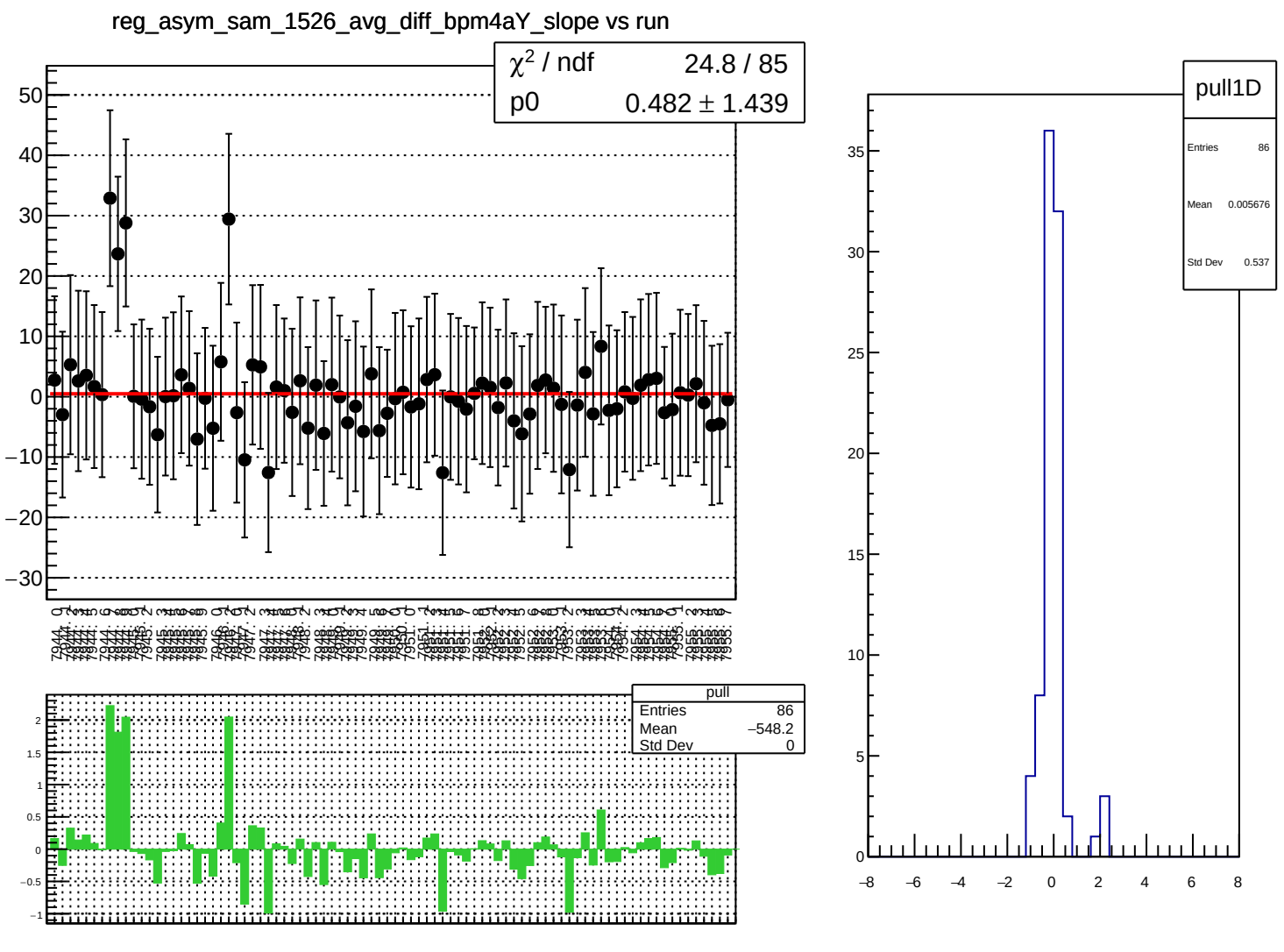

pull1D
Entries 86
Mean −0.0007048
Std Dev 0.3533

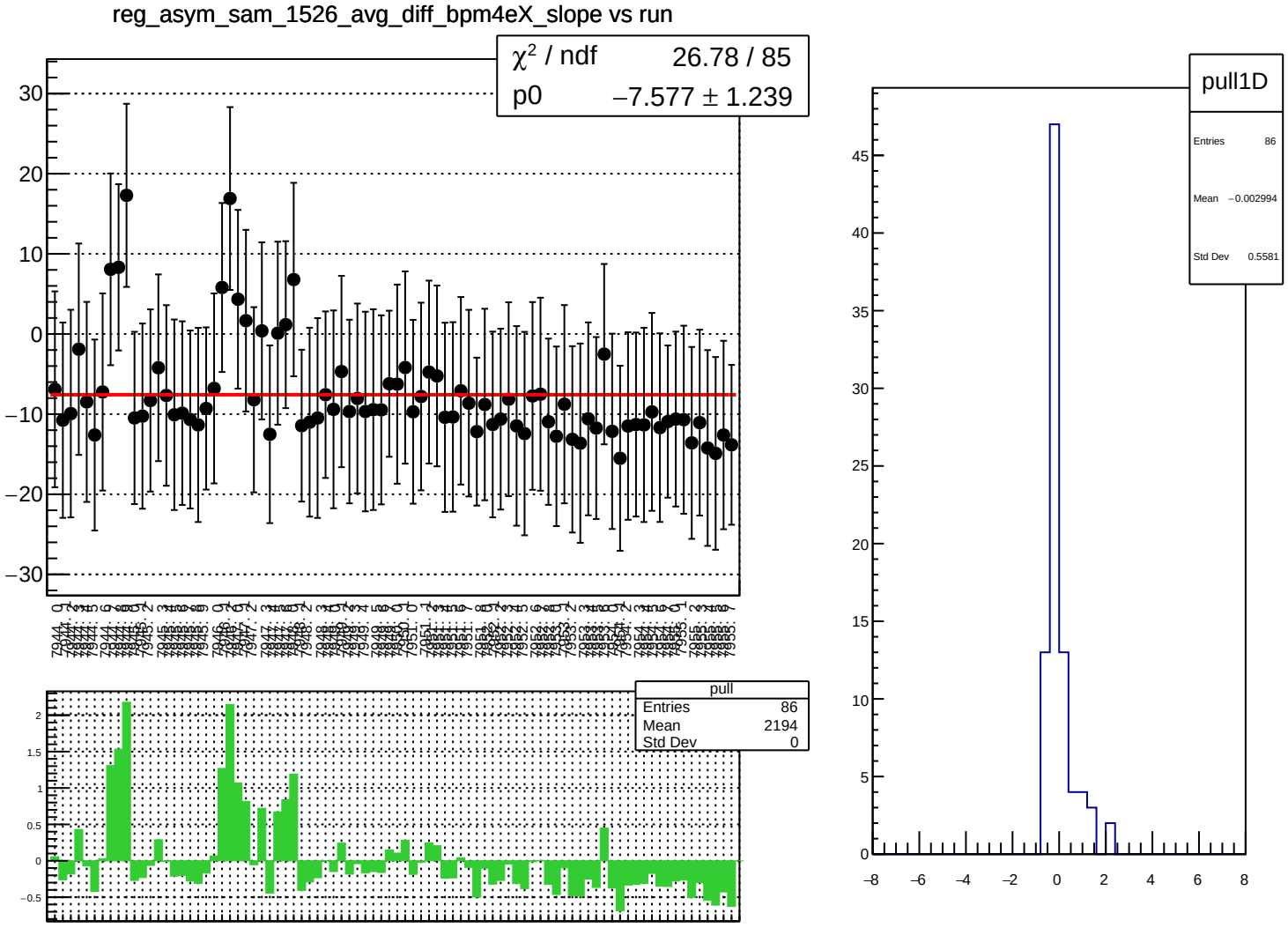

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.849 / 85
p0 18.13 ± 4.492
pull
Entries 86
Mean −1084
Std Dev 0
pull1D
Entries 86
Mean −0.001902
Std Dev 0.2608

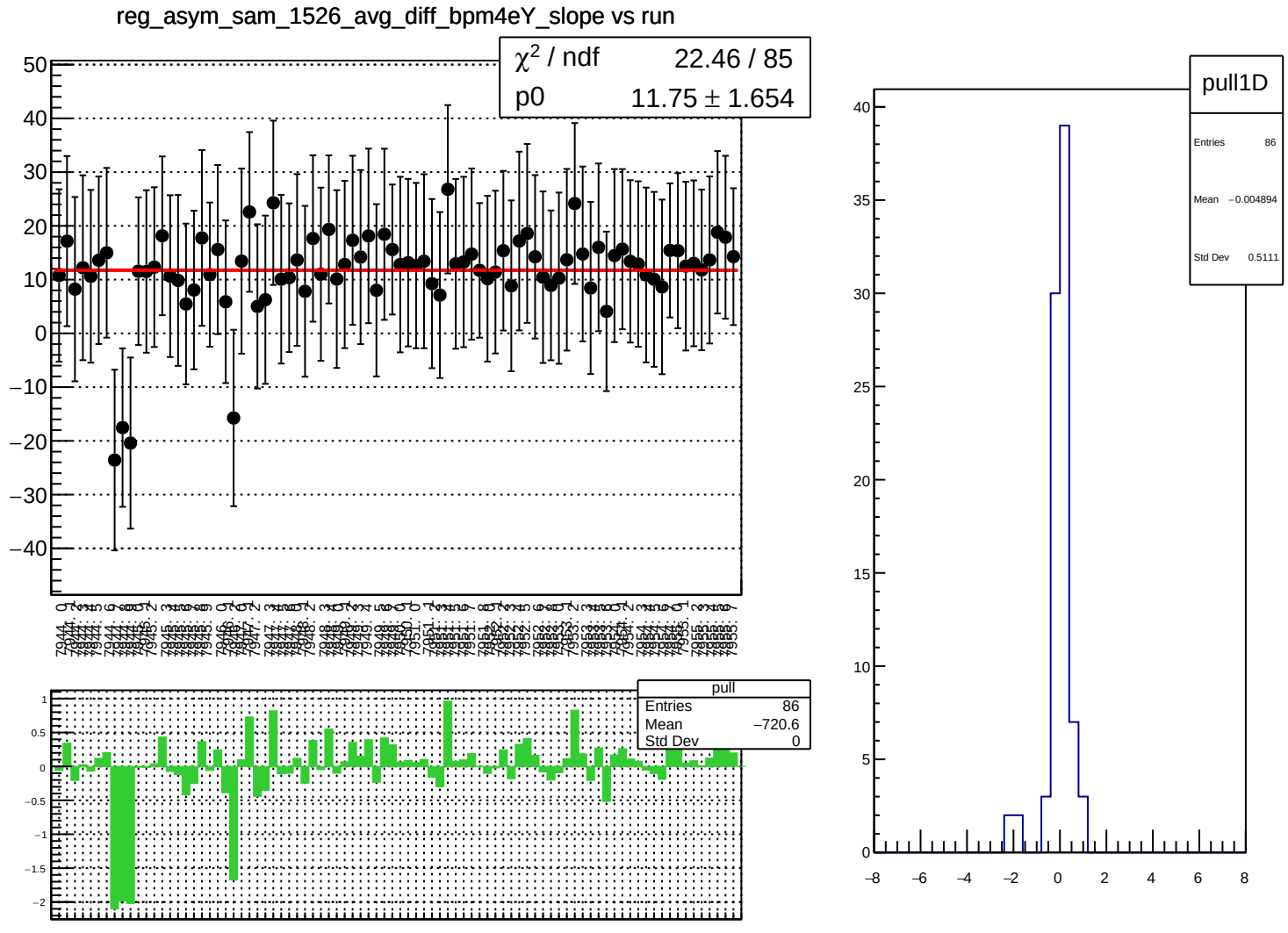

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 10.1 / 85
p0 −1.434 ± 0.1265
pull
Entries 86
Mean −513
Std Dev 0

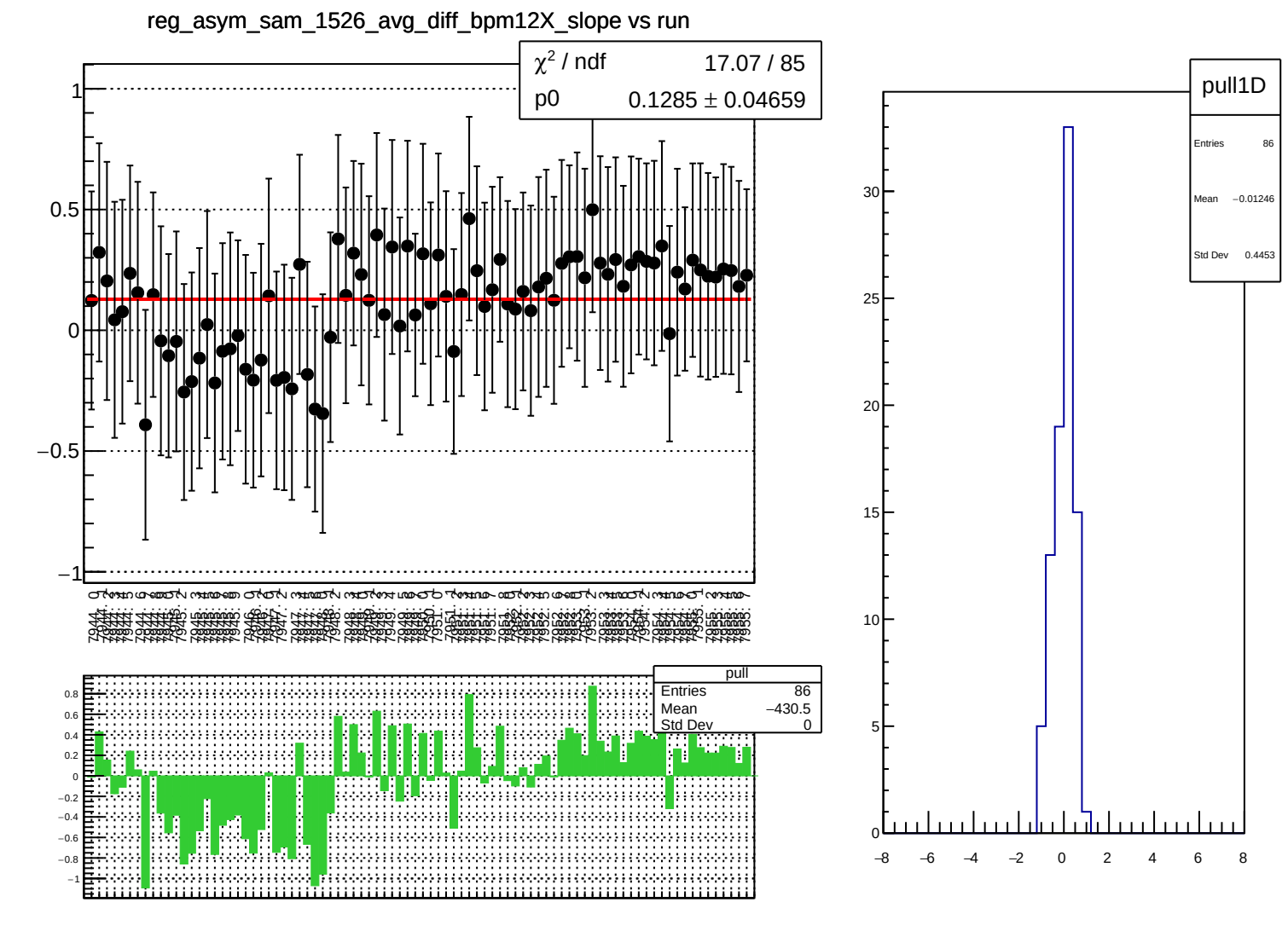

pull1D
Entries 86
Mean −0.009644
Std Dev 0.3425

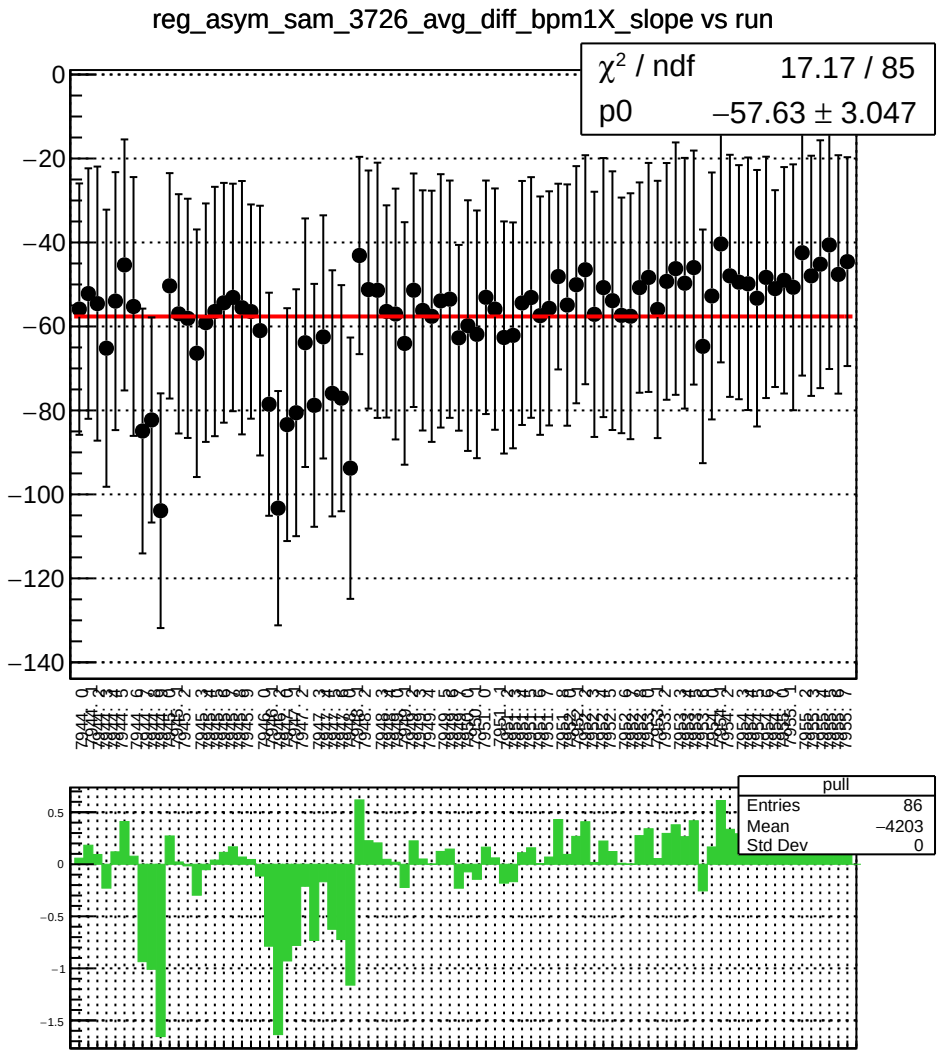

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 26.22 / 85
p0 −31.36 ± 1.395
pull
Entries 86
Mean −4628
Std Dev 0
pull1D
Entries 86
Mean −0.00148
Std Dev 0.5522

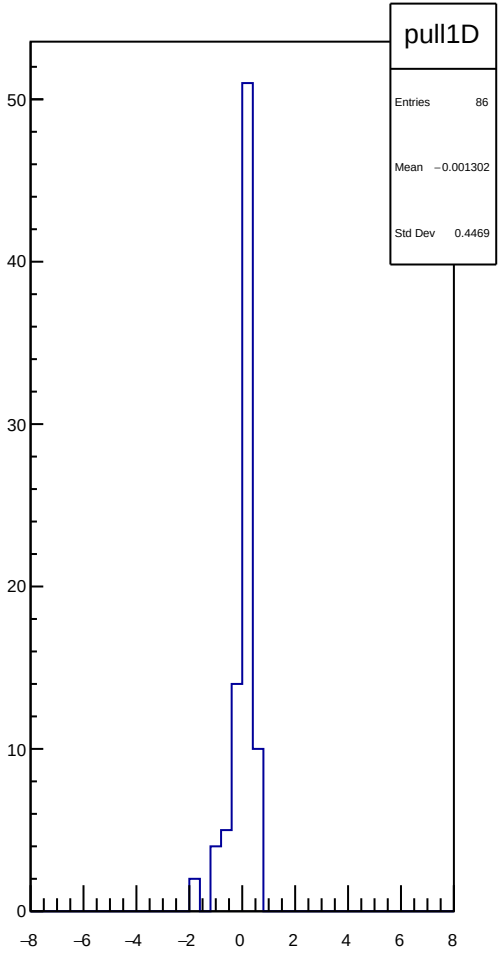

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.8 / 85
p0 0.482 ± 1.439
pull
Entries 86
Mean −548.2
Std Dev 0
pull1D
Entries 86
Mean 0.005676
Std Dev 0.537

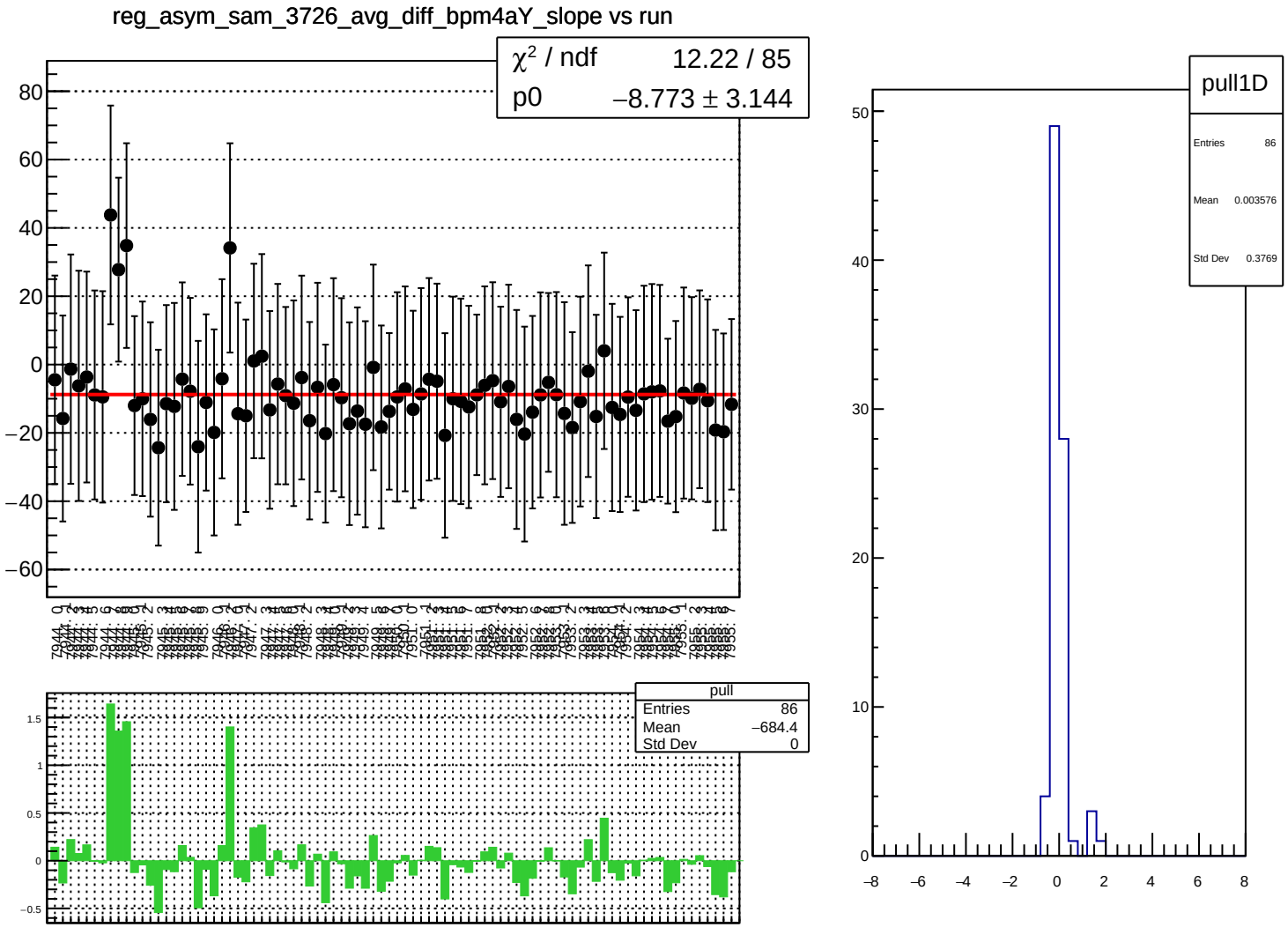

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.78 / 85
p0 −7.577 ± 1.239
pull
Entries 86
Mean 2194
Std Dev 0
pull1D
Entries 86
Mean −0.002994
Std Dev 0.5581

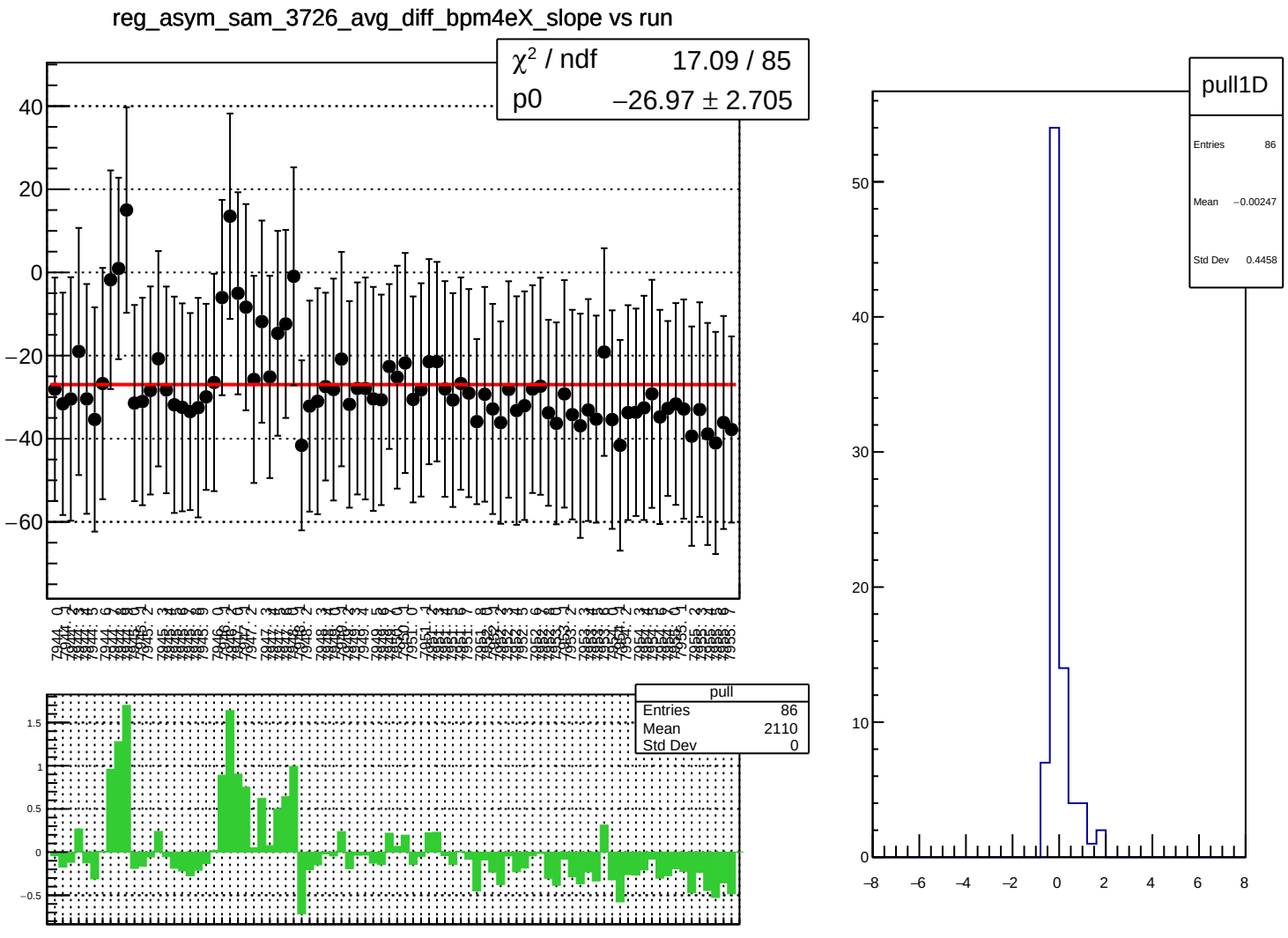

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.46 / 85
p0 11.75 ± 1.654
pull
Entries 86
Mean −720.6
Std Dev 0
pull1D
Entries 86
Mean −0.004894
Std Dev 0.5111

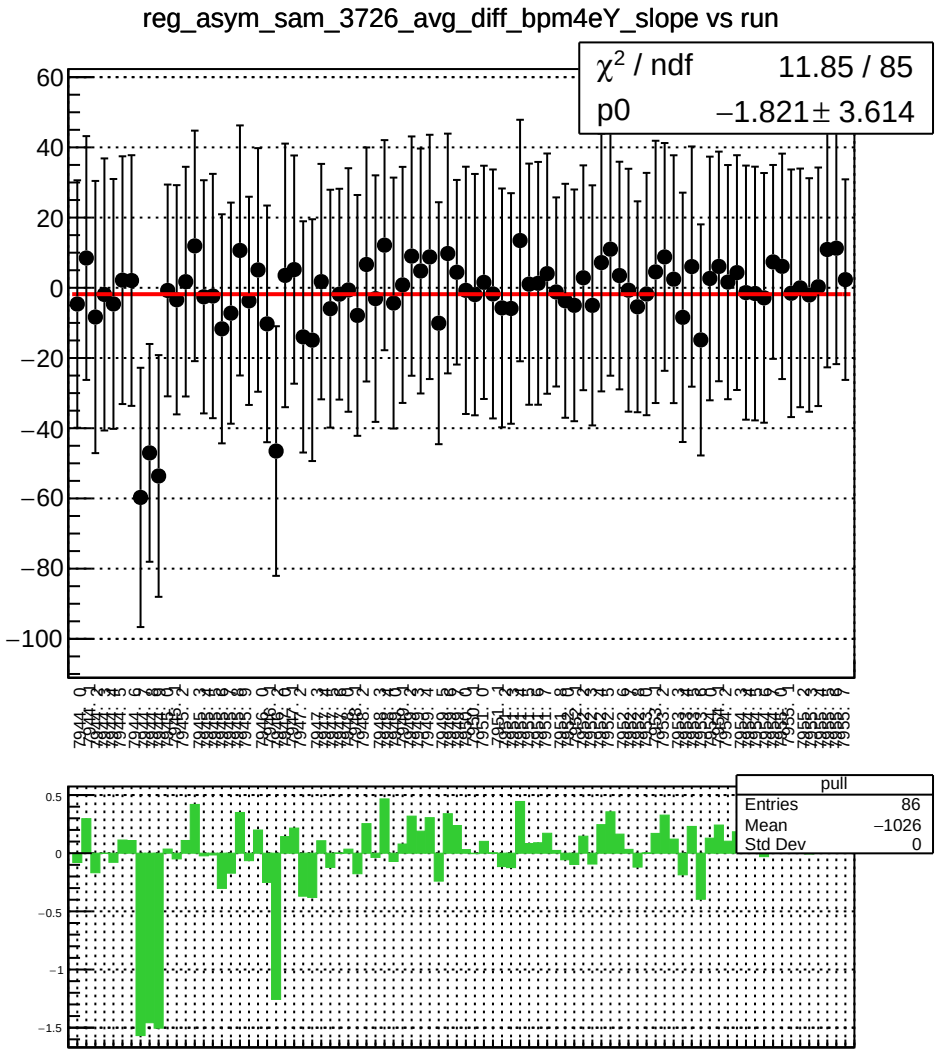

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 17.07 / 85
p0 0.1285 ± 0.04659
pull
Entries 86
Mean −430.5
Std Dev 0
pull1D
Entries 86
Mean −0.01246
Std Dev 0.4453

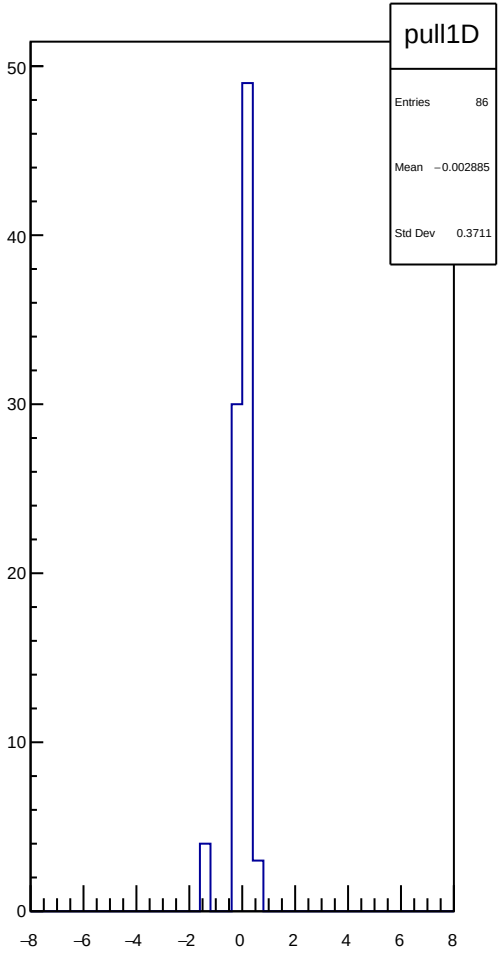

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 17.17 / 85
p0 −57.63 ± 3.047
pull
Entries 86
Mean −4203
Std Dev 0

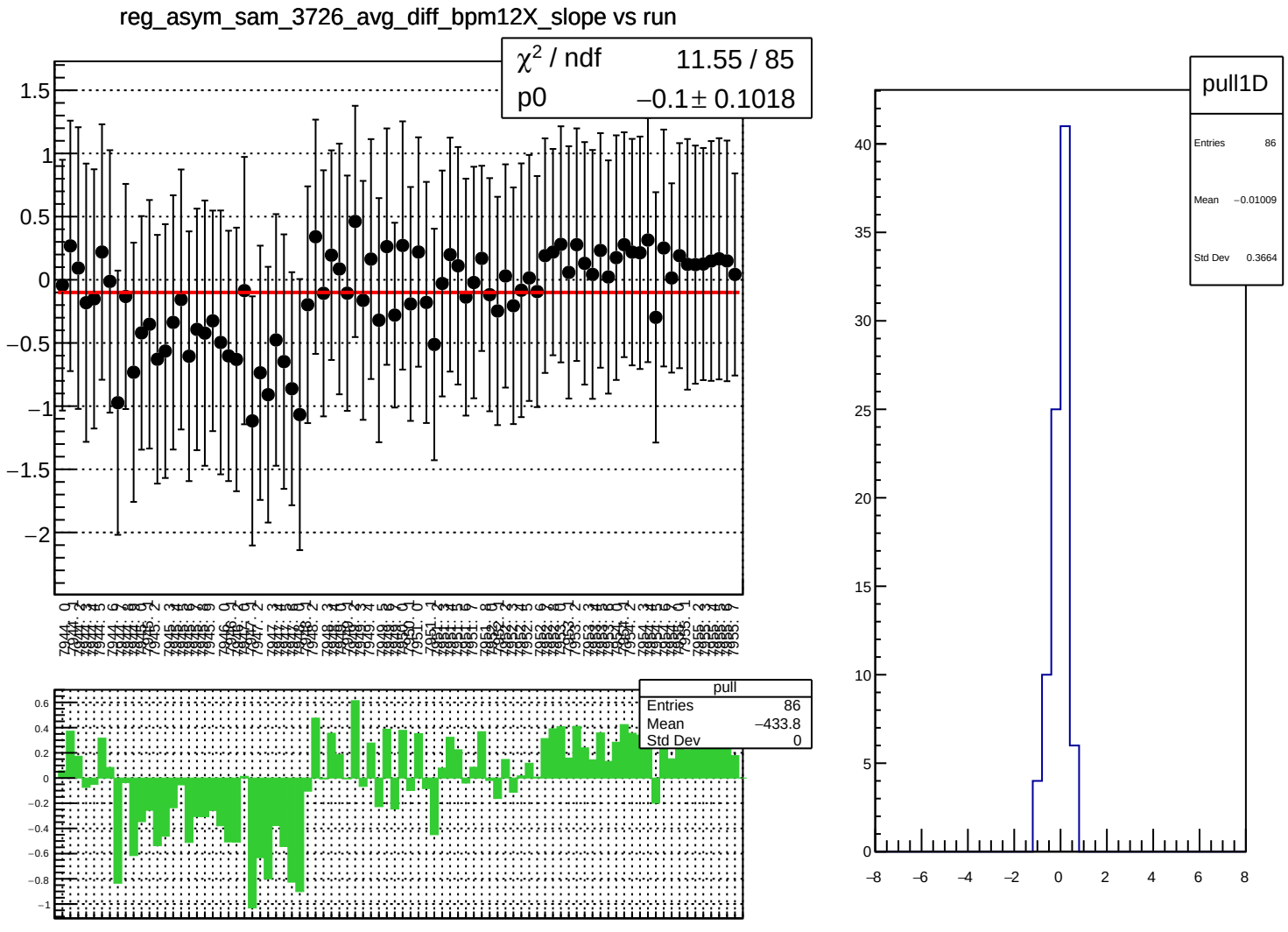

pull1D
Entries 86
Mean −0.001302
Std Dev 0.4469

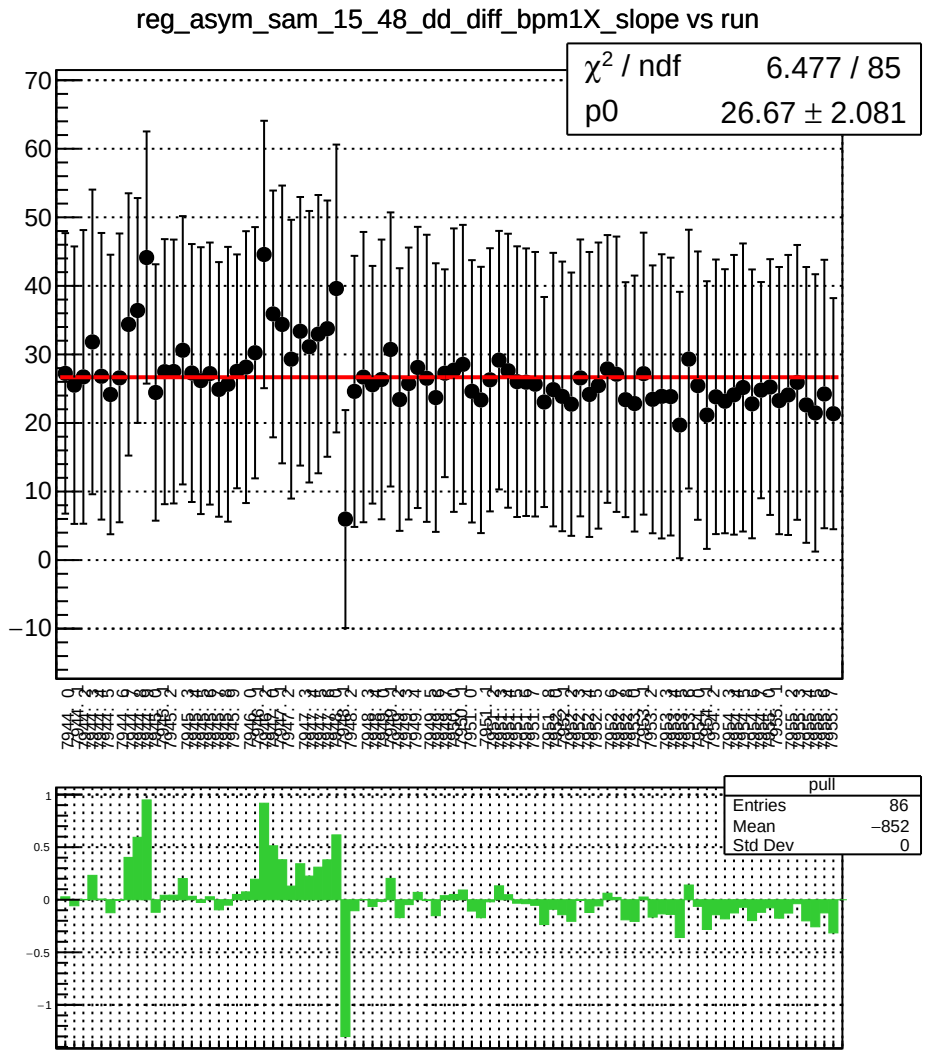

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.22 / 85
p0 −8.773 ± 3.144
pull
Entries 86
Mean −684.4
Std Dev 0
pull1D
Entries 86
Mean 0.003576
Std Dev 0.3769

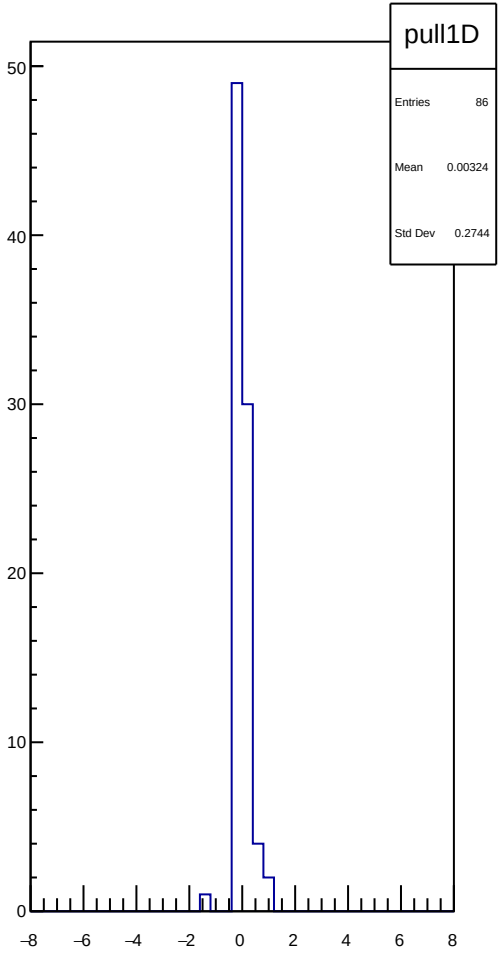

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.09 / 85
p0 −26.97 ± 2.705
pull
Entries 86
Mean 2110
Std Dev 0
pull1D
Entries 86
Mean −0.00247
Std Dev 0.4458

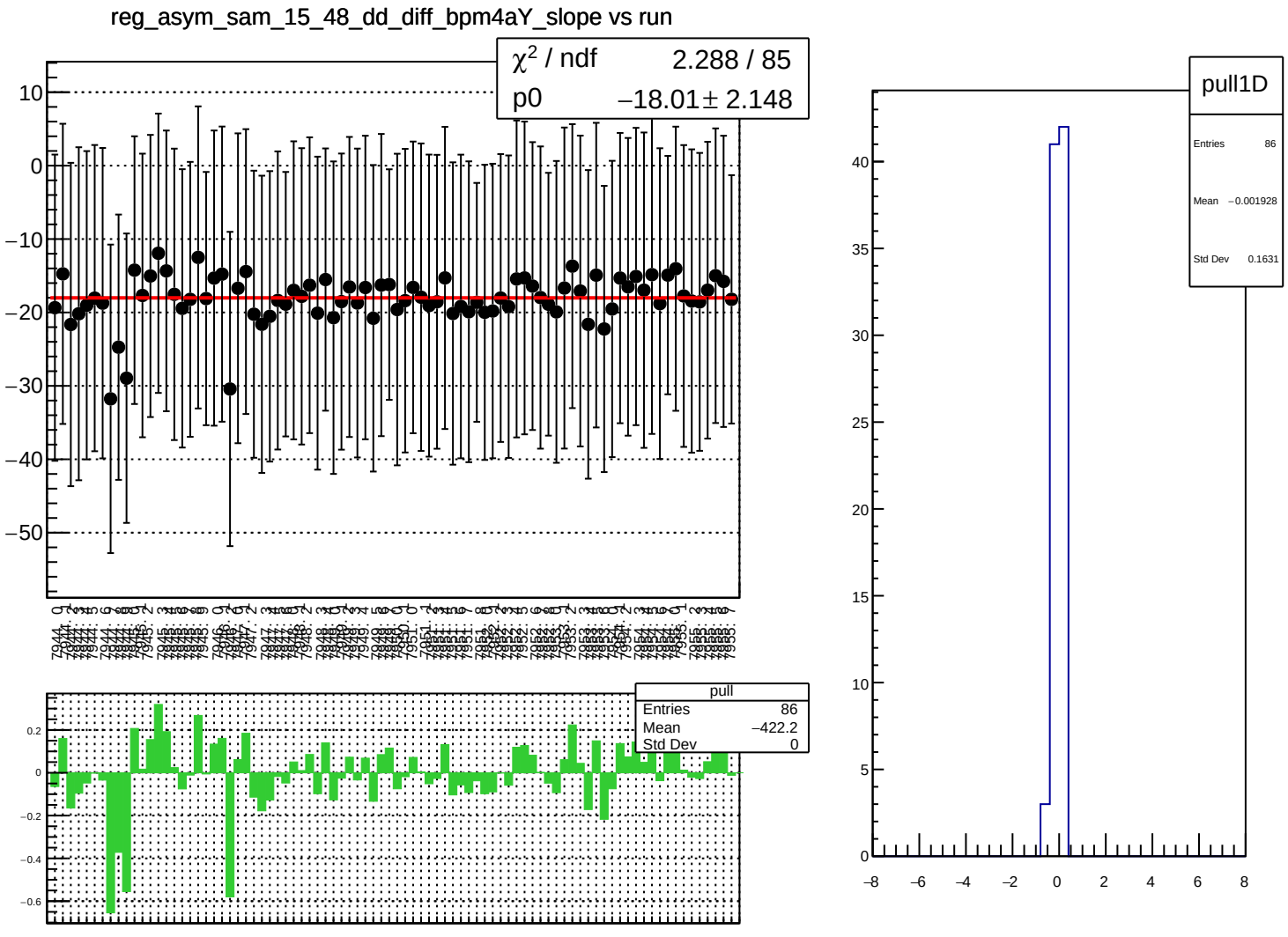

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.85 / 85
p0 −1.821± 3.614
pull
Entries 86
Mean −1026
Std Dev 0

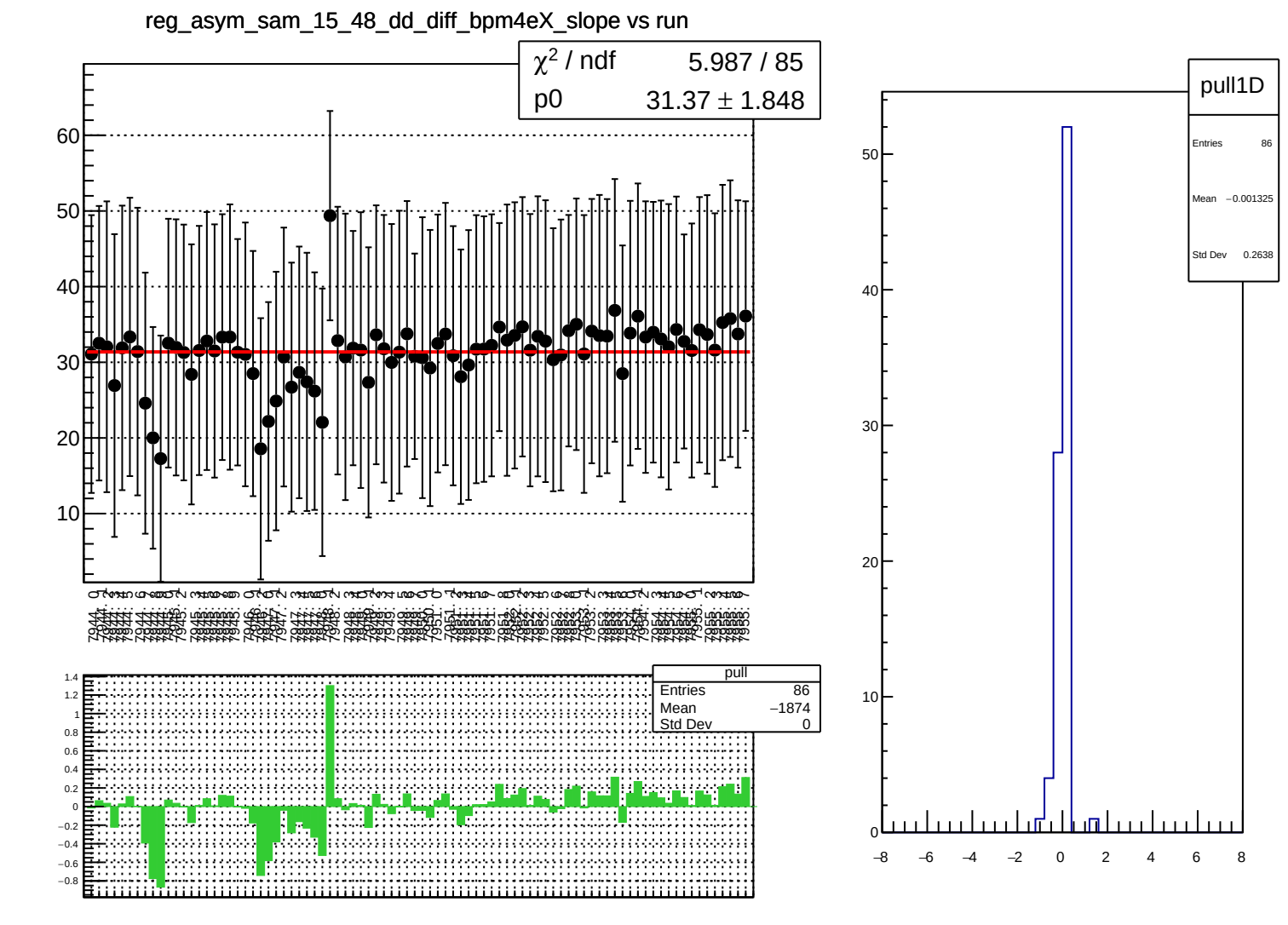

pull1D
Entries 86
Mean −0.002885
Std Dev 0.3711

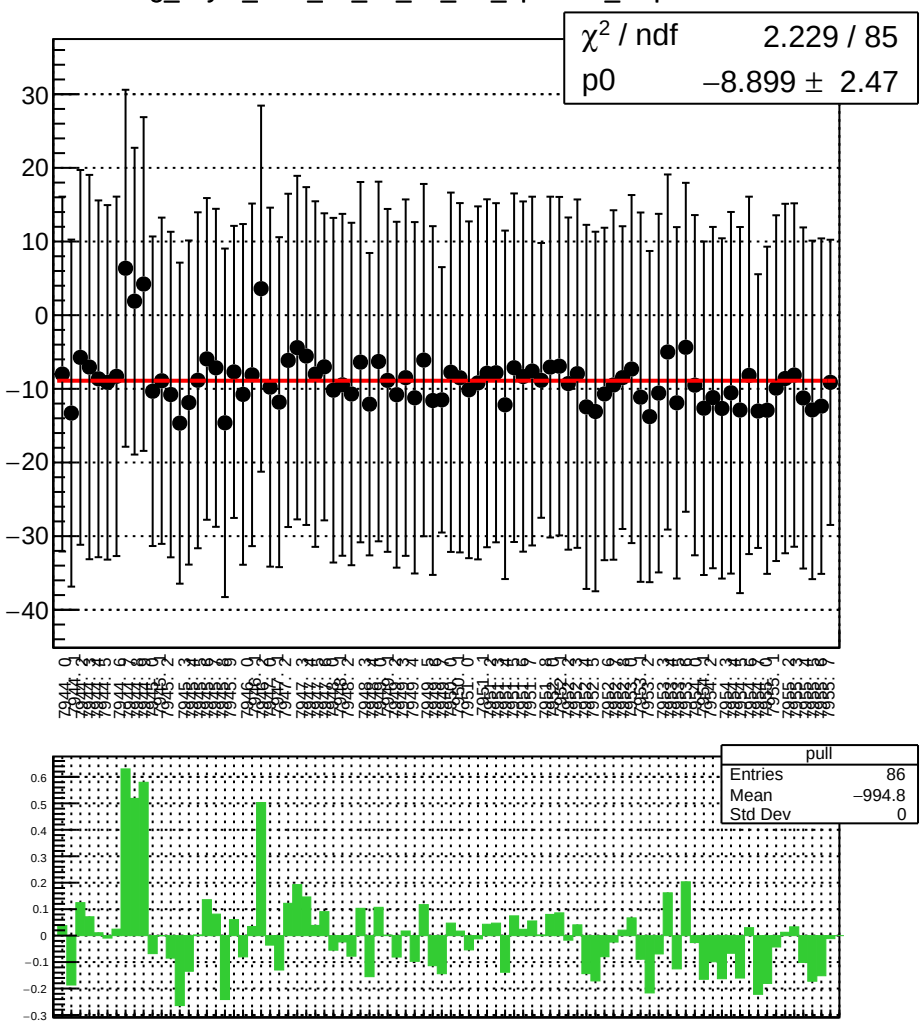

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 11.55 / 85
p0 −0.1 ± 0.1018
pull
Entries 86
Mean −433.8
Std Dev 0
pull1D
Entries 86
Mean −0.01009
Std Dev 0.3664

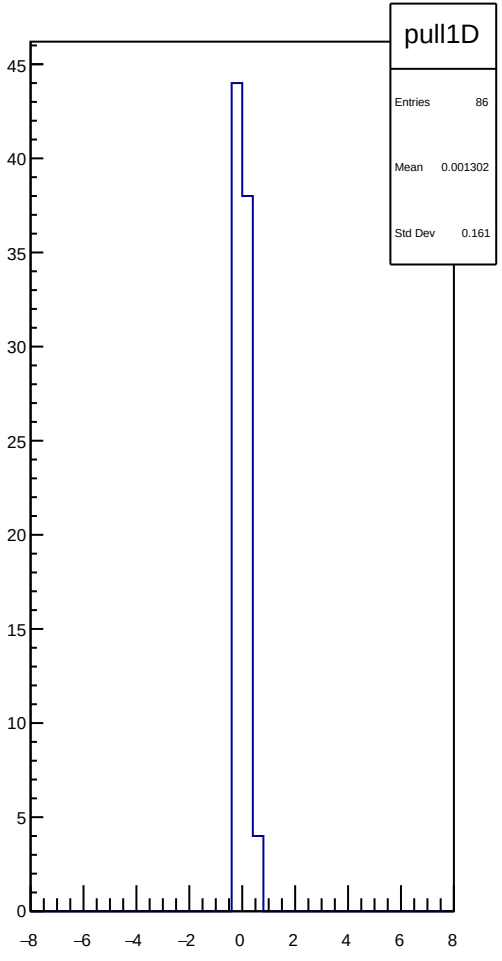

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.477 / 85
p0 26.67 ± 2.081
pull
Entries 86
Mean −852
Std Dev 0

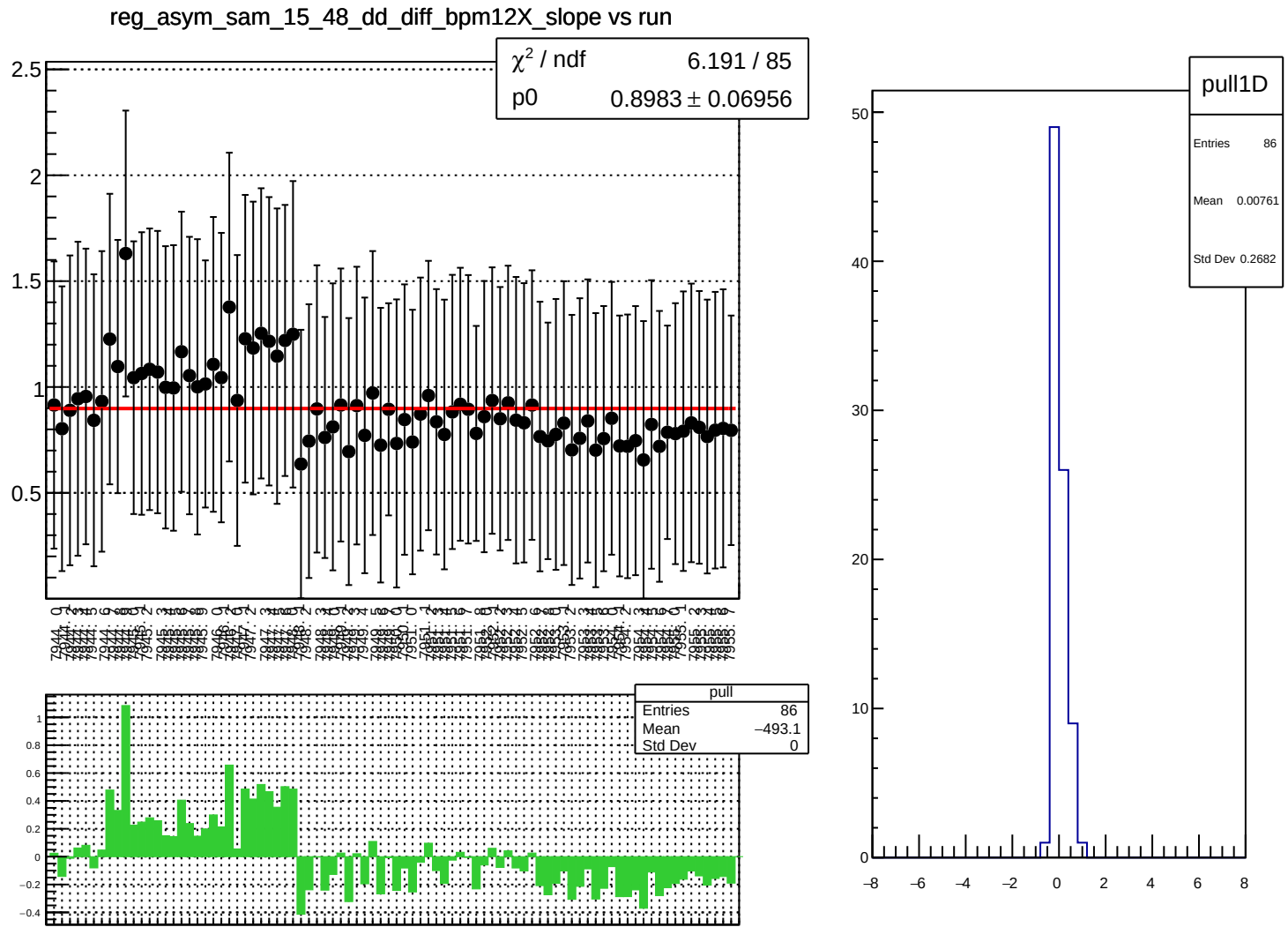

pull1D
Entries 86
Mean 0.00324
Std Dev 0.2744

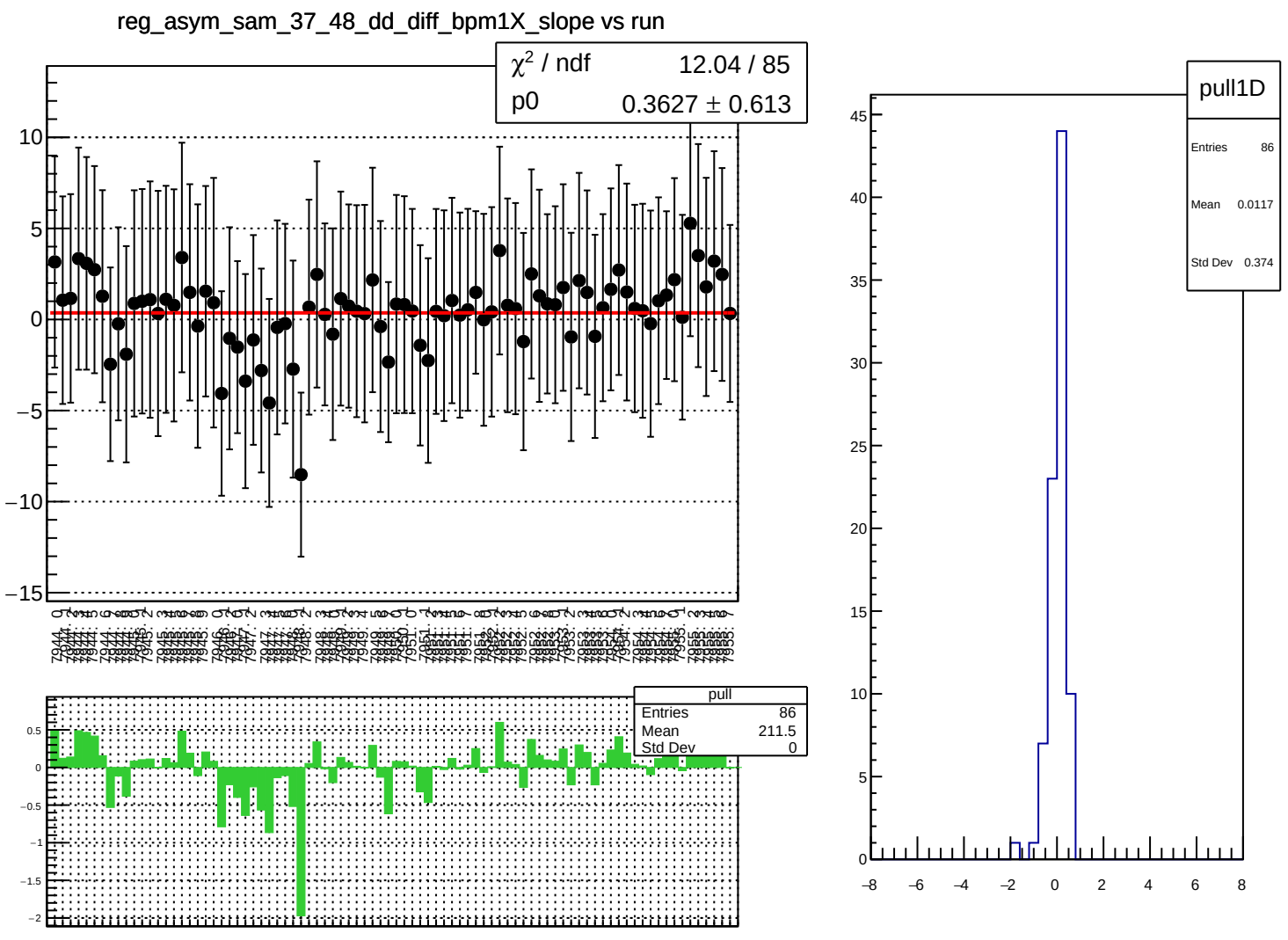

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.288 / 85
p0 −18.01± 2.148
pull
Entries 86
Mean −422.2
Std Dev 0
pull1D
Entries 86
Mean −0.001928
Std Dev 0.1631

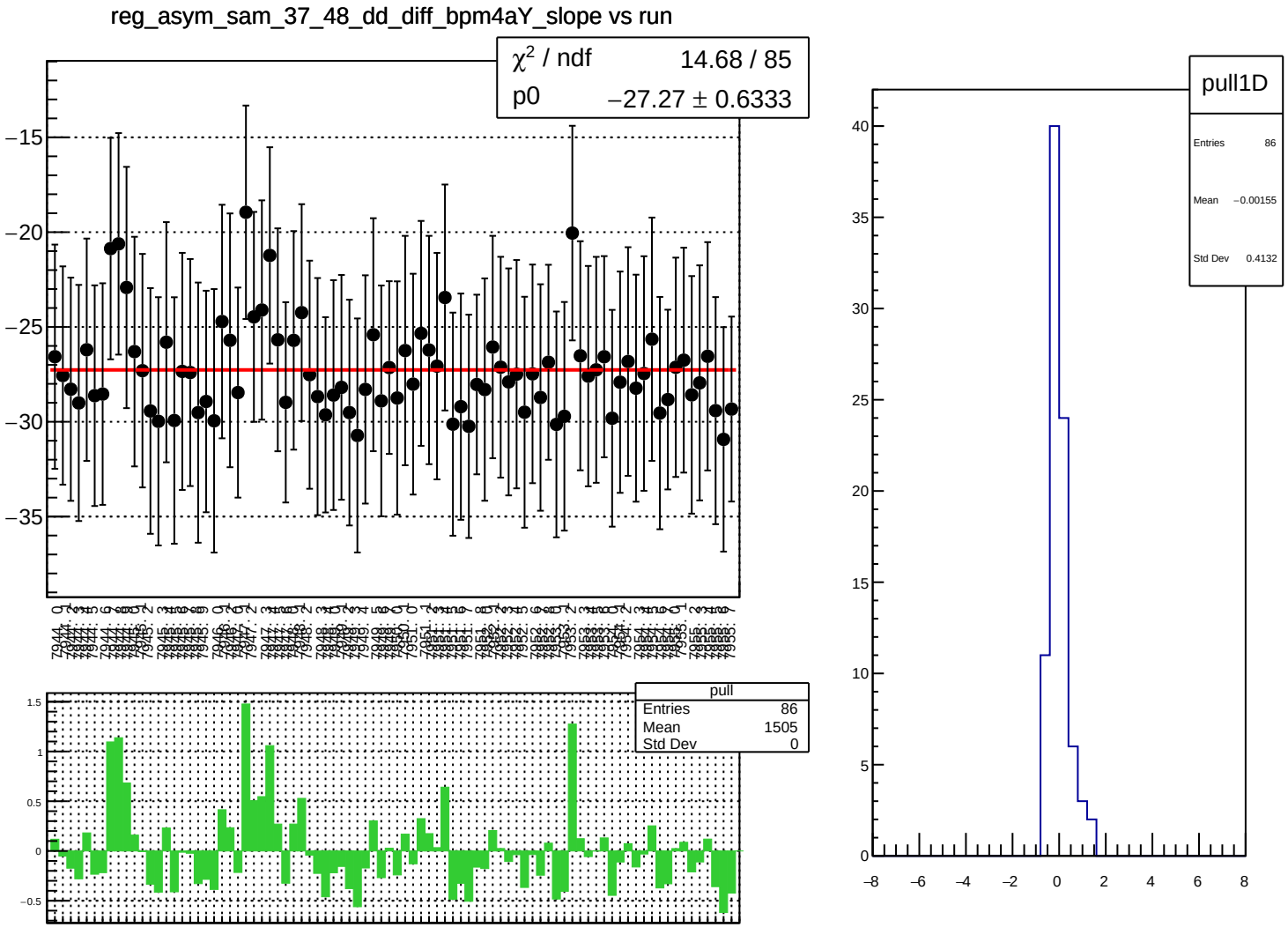

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.987 / 85
p0 31.37 ± 1.848
pull
Entries 86
Mean −1874
Std Dev 0
pull1D
Entries 86
Mean −0.001325
Std Dev 0.2638

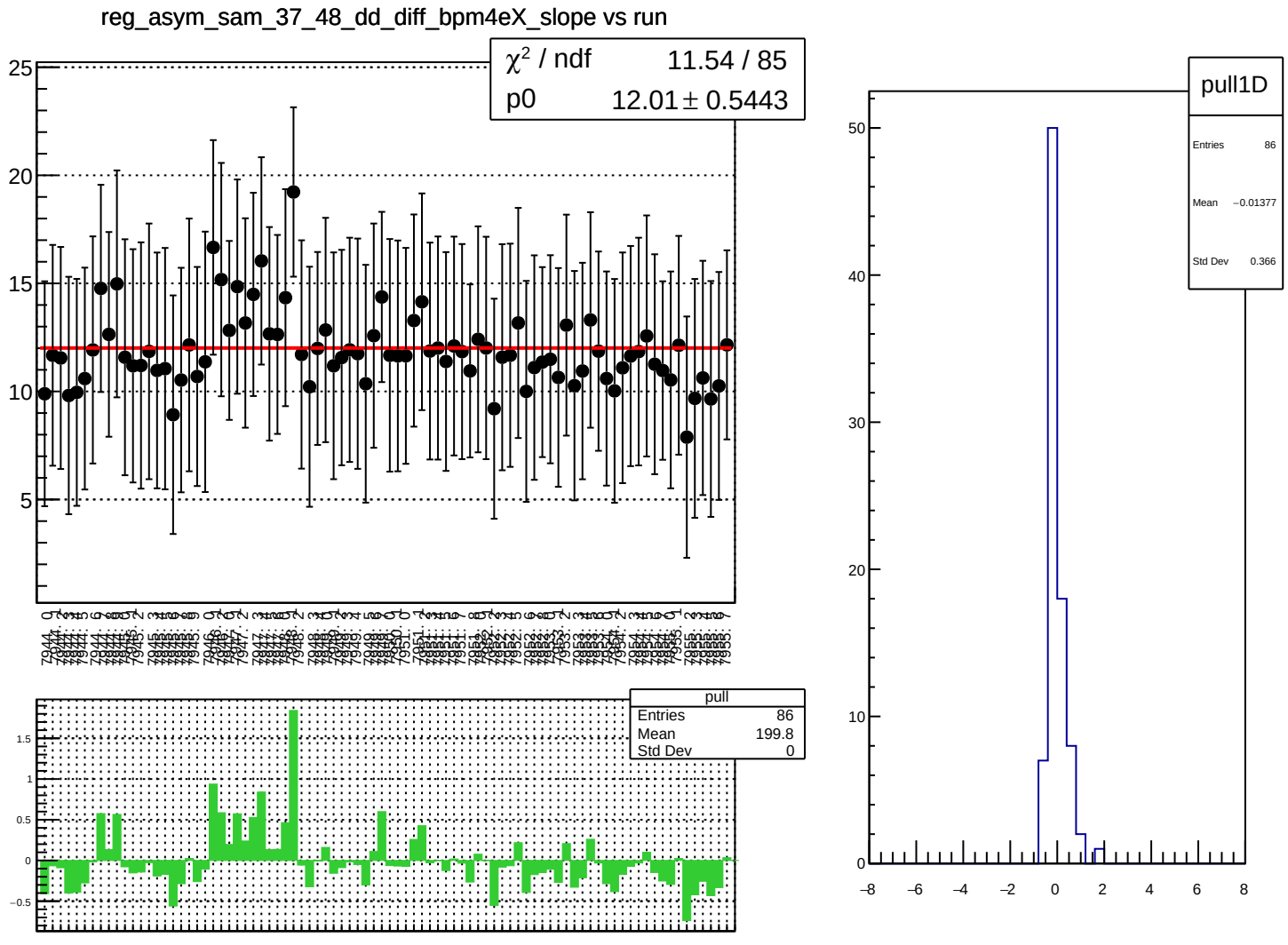

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.229 / 85
p0 −8.899 ± 2.47
pull
Entries 86
Mean −994.8
Std Dev 0

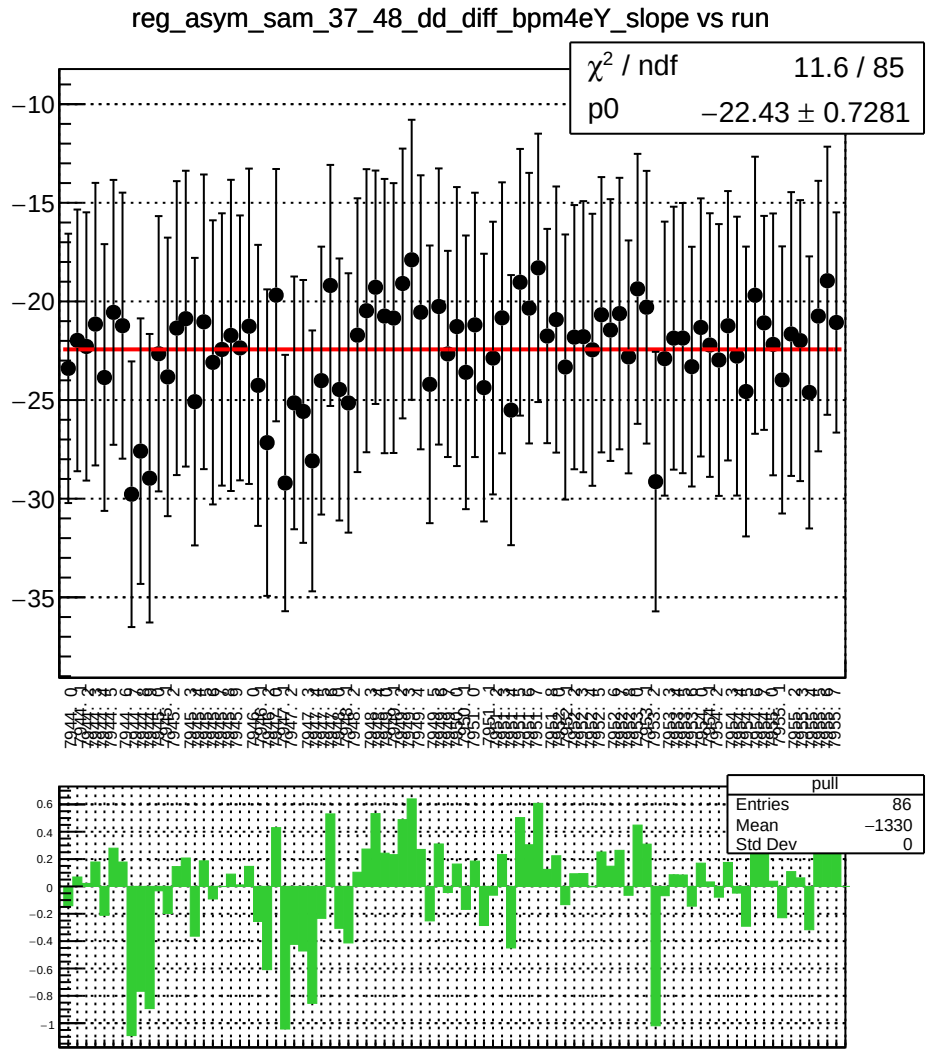

pull1D
Entries 86
Mean 0.001302
Std Dev 0.161

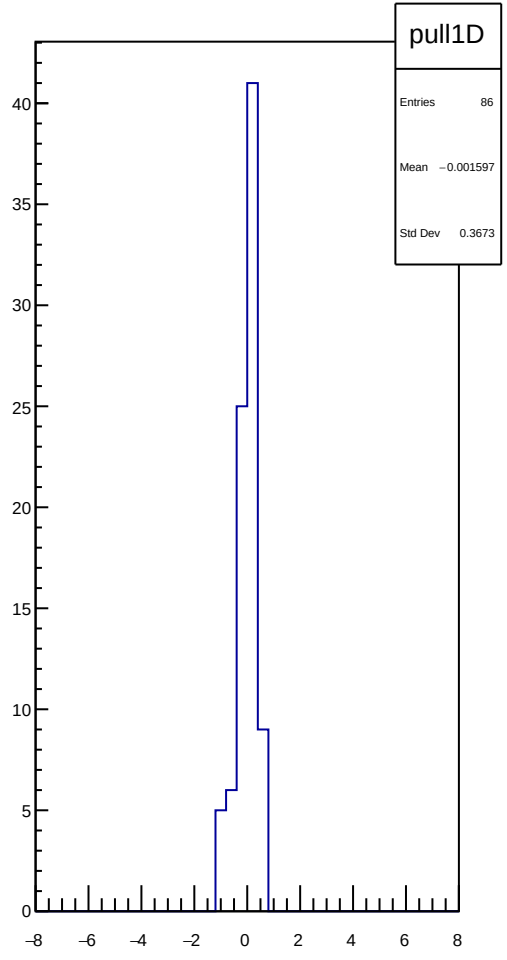

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.191 / 85
p0 0.8983 ± 0.06956
pull
Entries 86
Mean −493.1
Std Dev 0
pull1D
Entries 86
Mean 0.00761
Std Dev 0.2682

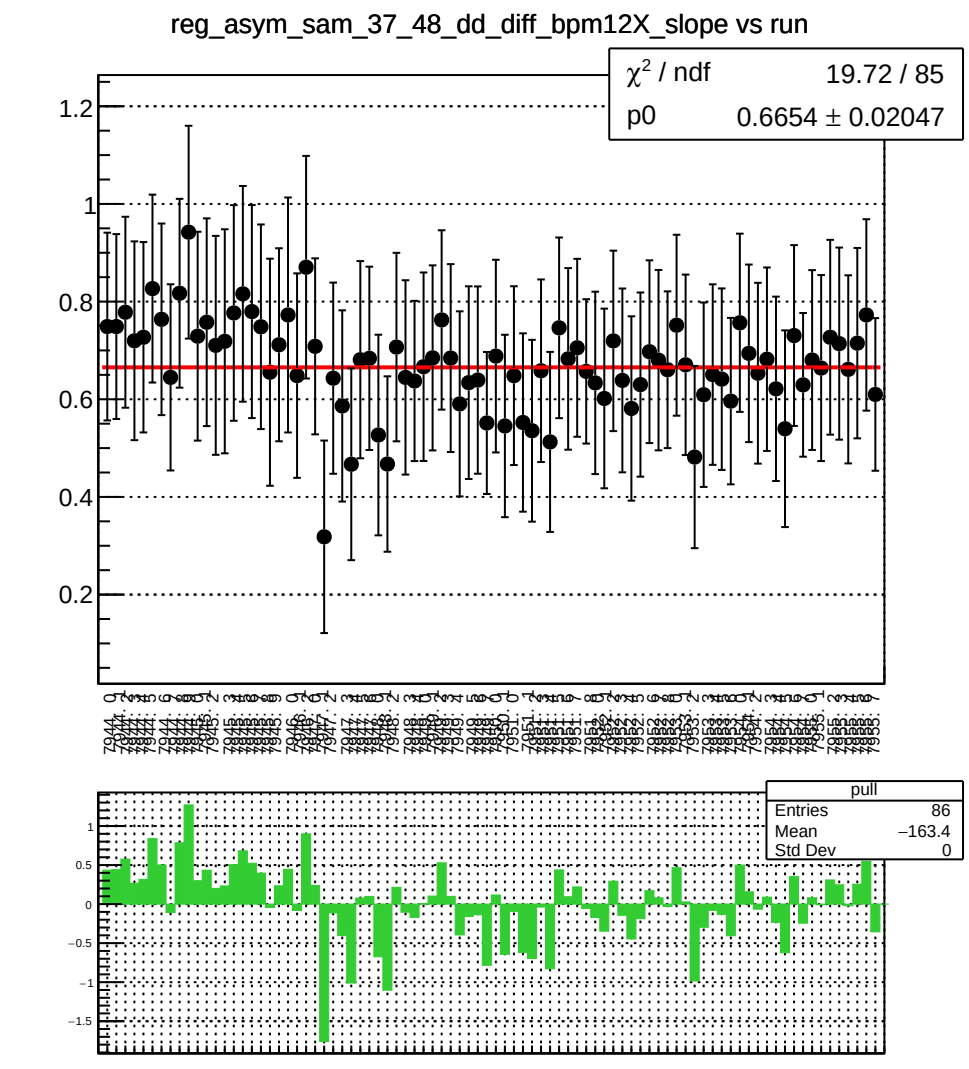

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 12.04 / 85
p0 0.3627 ± 0.613
pull
Entries 86
Mean 211.5
Std Dev 0
pull1D
Entries 86
Mean 0.0117
Std Dev 0.374

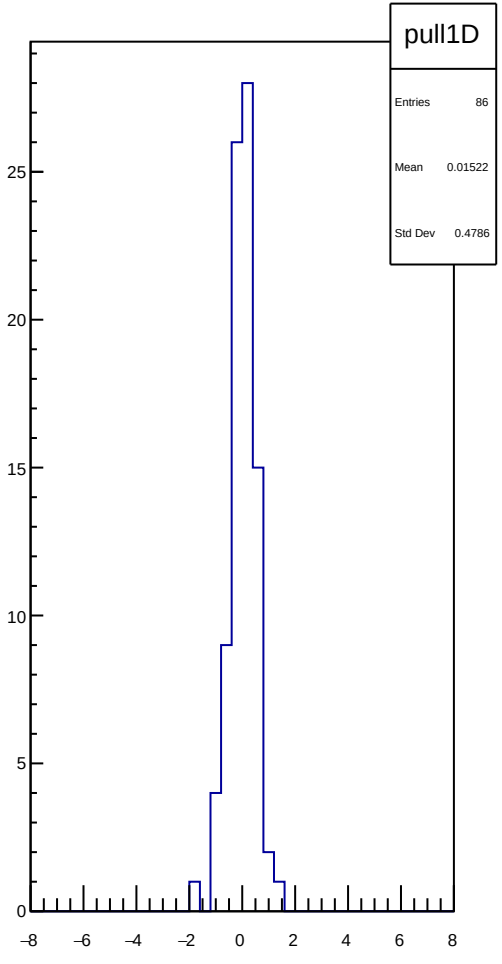

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.68 / 85
p0 −27.27 ± 0.6333
pull
Entries 86
Mean 1505
Std Dev 0
pull1D
Entries 86
Mean −0.00155
Std Dev 0.4132

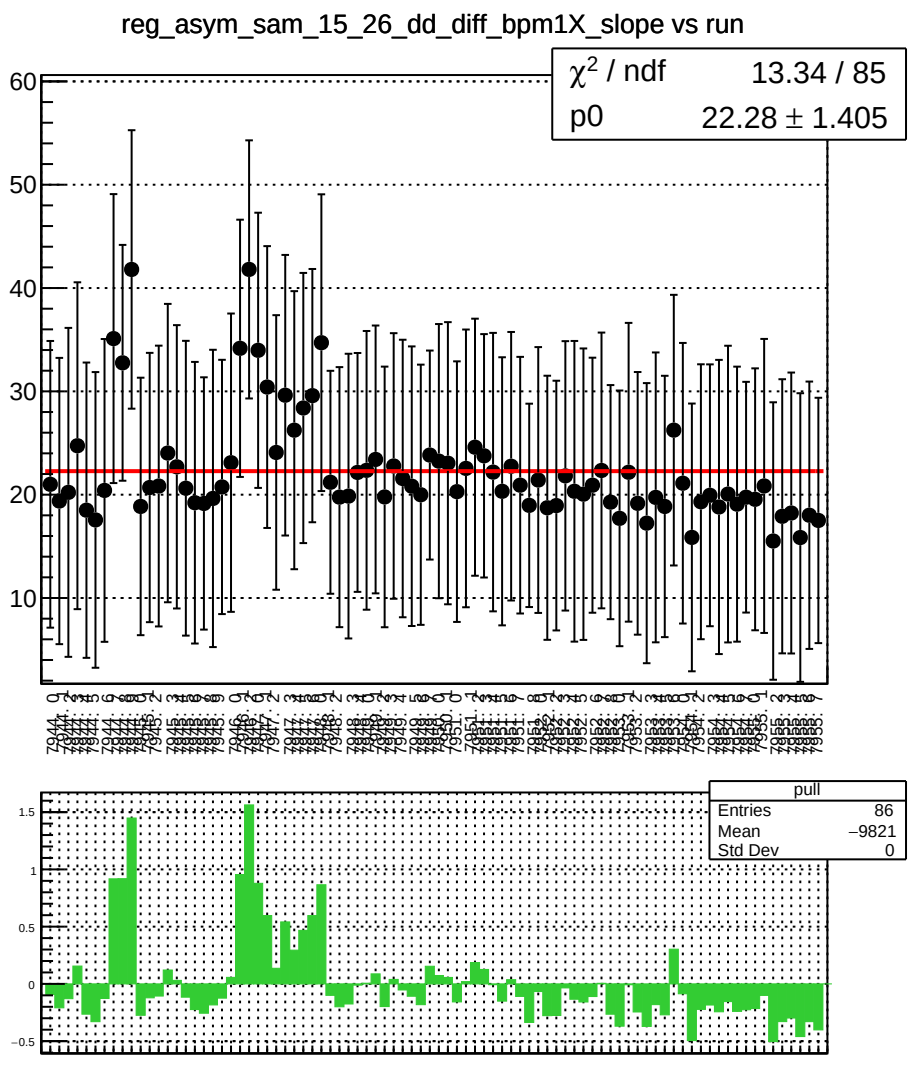

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.54 / 85
p0 12.01 ± 0.5443
pull
Entries 86
Mean 199.8
Std Dev 0
pull1D
Entries 86
Mean −0.01377
Std Dev 0.366

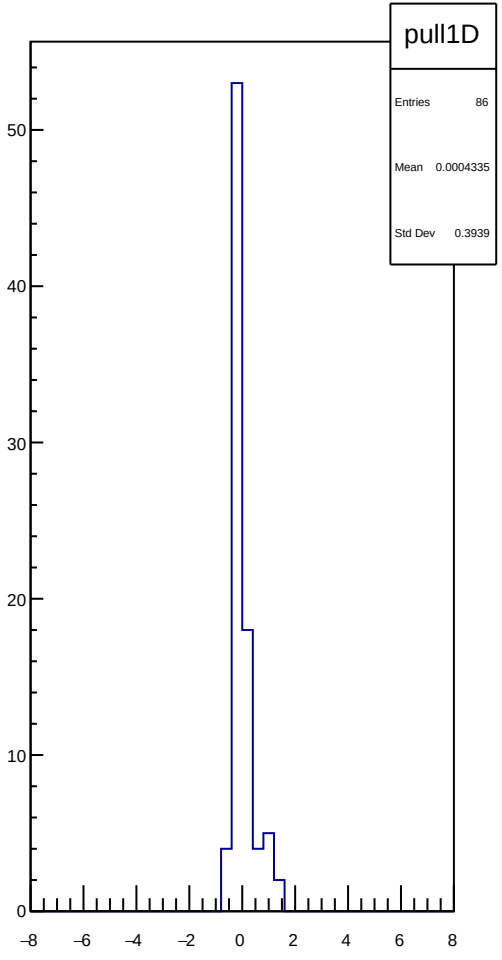

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.6 / 85
p0 −22.43 ± 0.7281
pull
Entries 86
Mean −1330
Std Dev 0

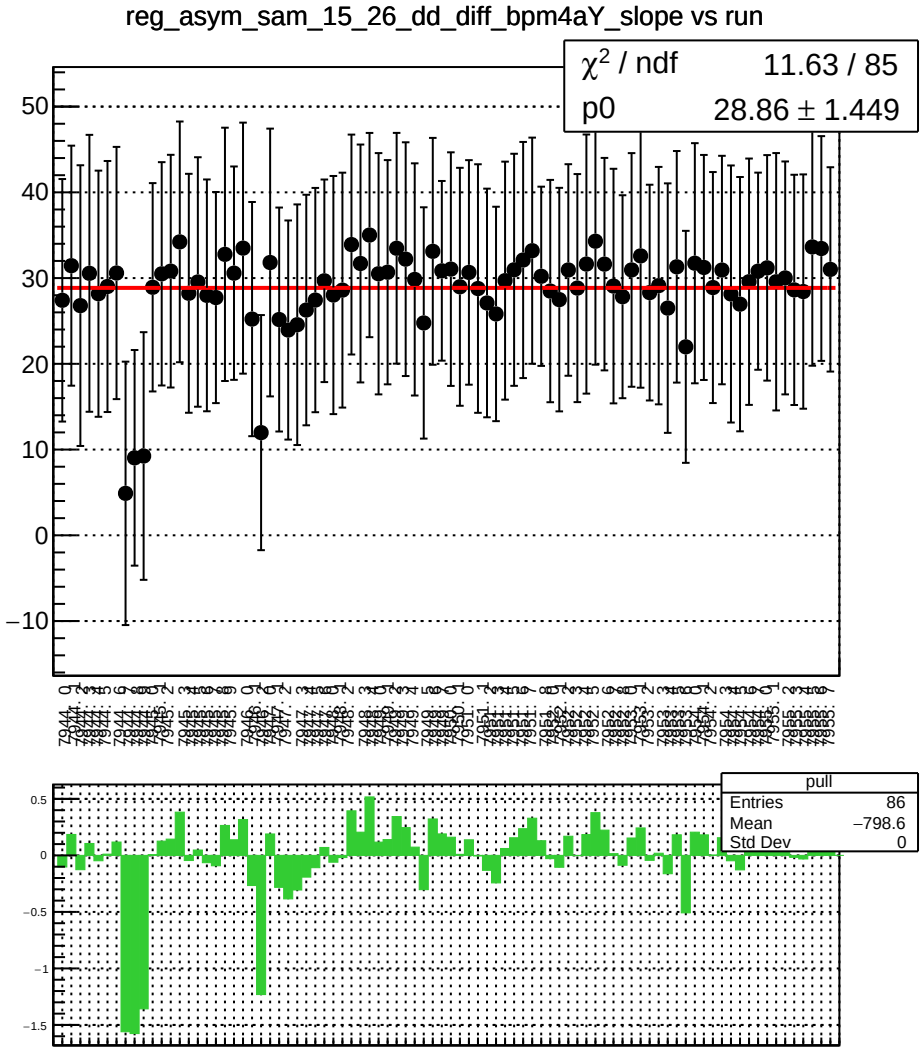

pull1D
Entries 86
Mean −0.001597
Std Dev 0.3673

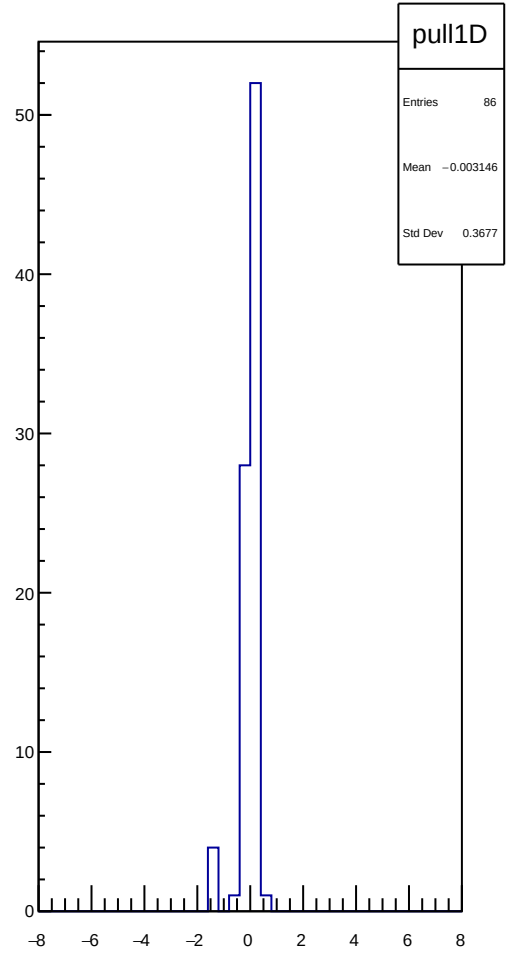

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 19.72 / 85
p0 0.6654 ± 0.02047
pull
Entries 86
Mean −163.4
Std Dev 0

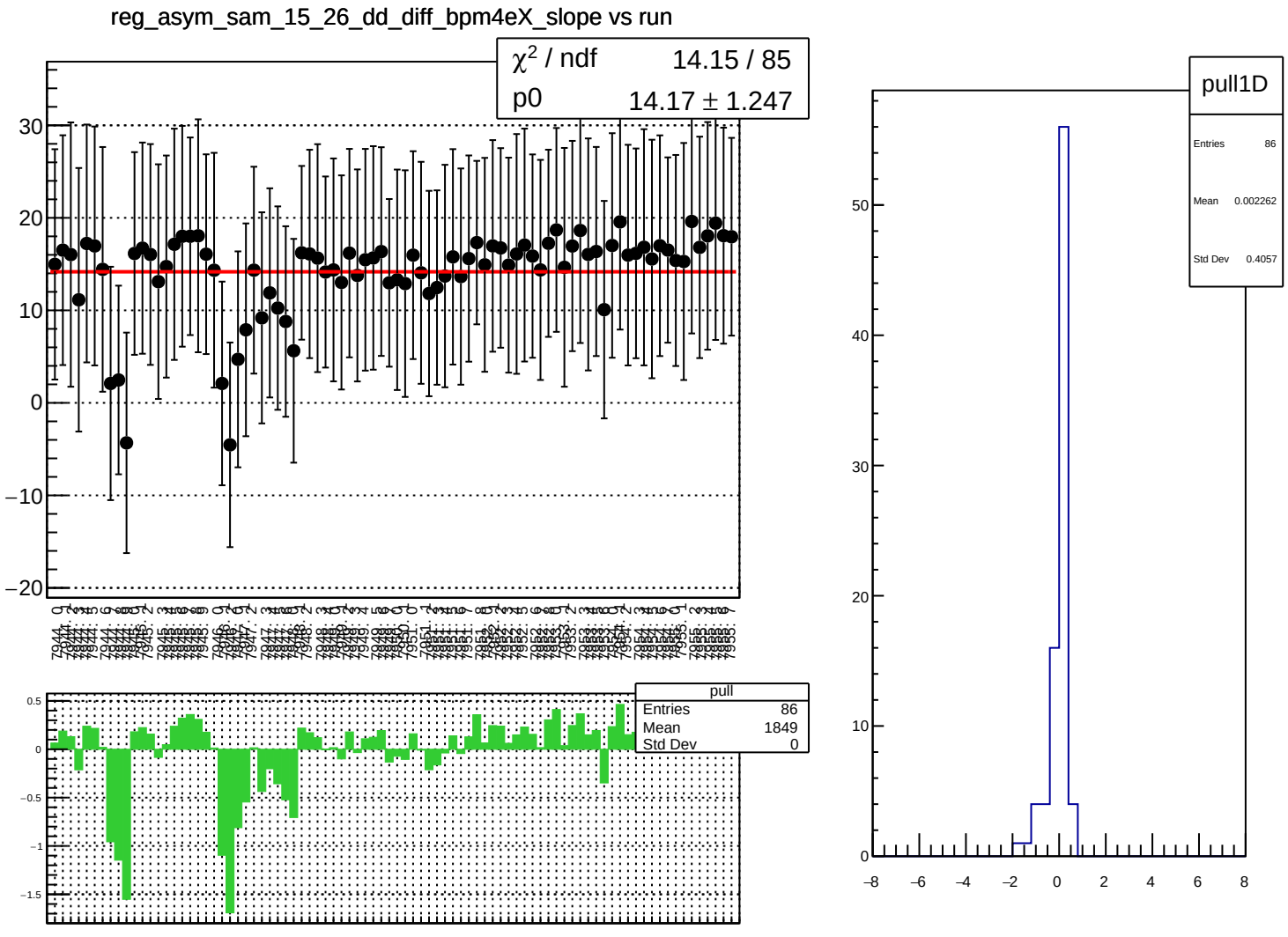

pull1D
Entries 86
Mean 0.01522
Std Dev 0.4786

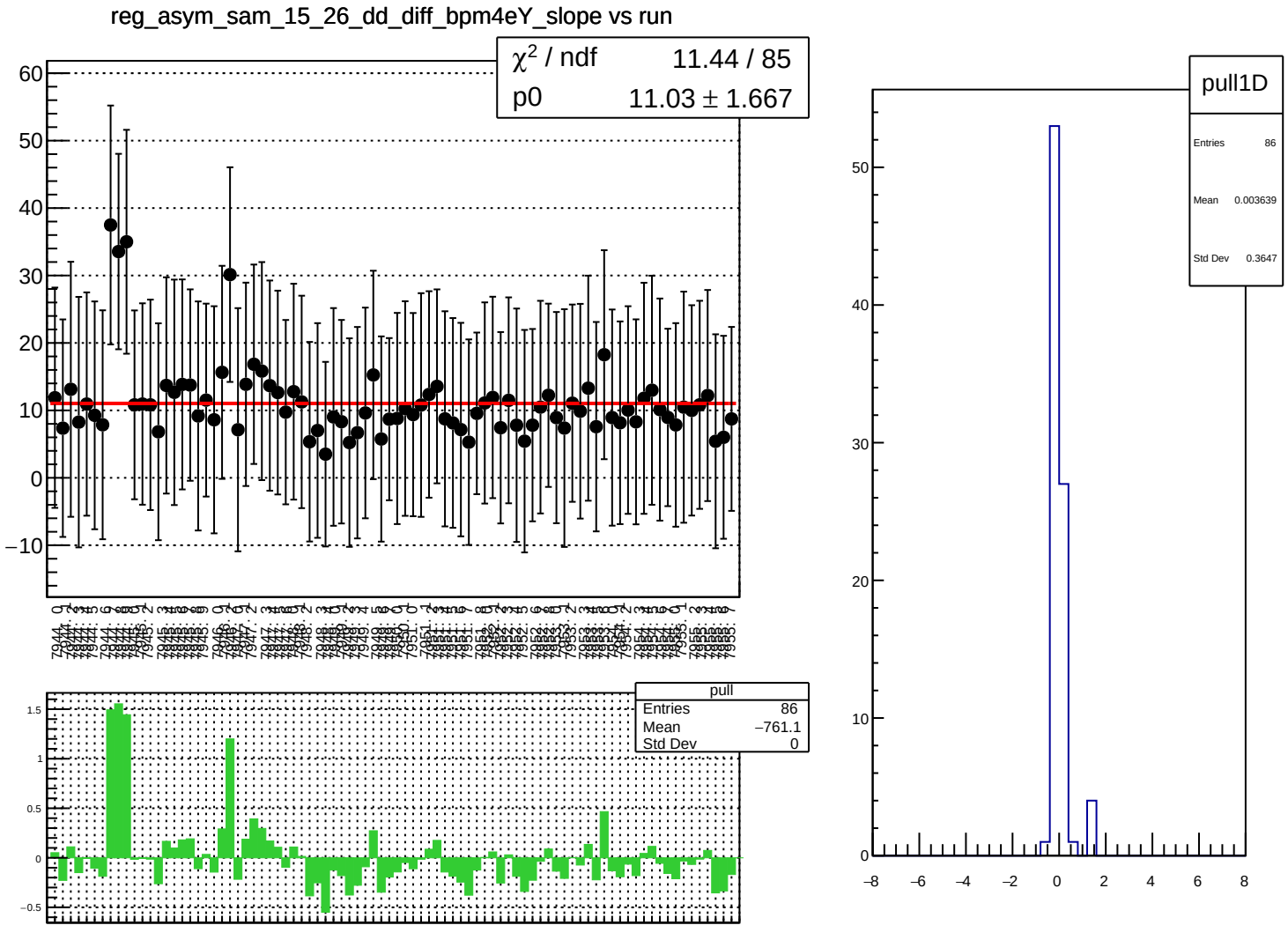

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 13.34 / 85
p0 22.28 ± 1.405
pull
Entries 86
Mean −9821
Std Dev 0

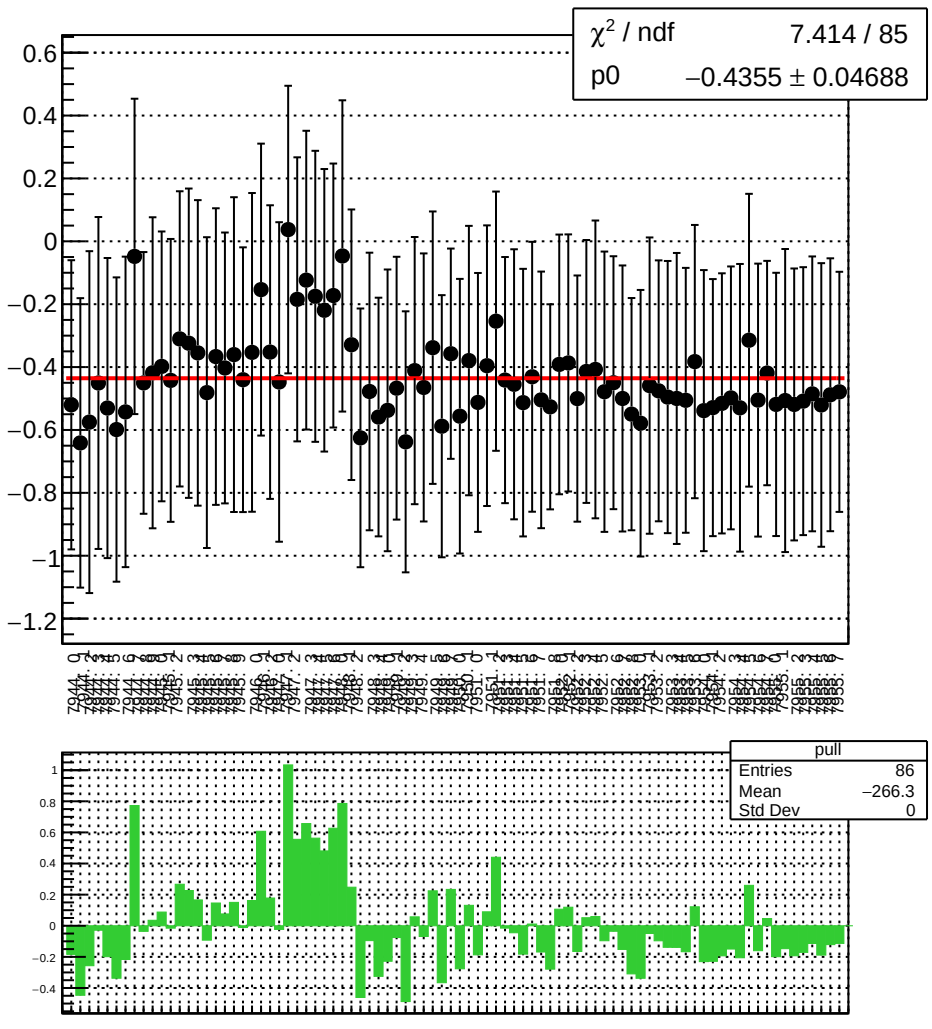

pull1D
Entries 86
Mean 0.0004335
Std Dev 0.3939

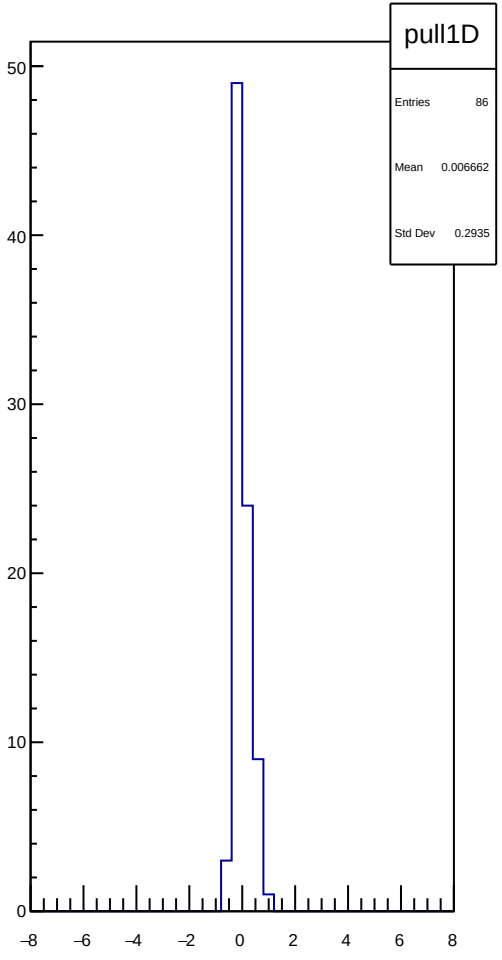

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.63 / 85
p0 28.86 ± 1.449
pull
Entries 86
Mean −798.6
Std Dev 0

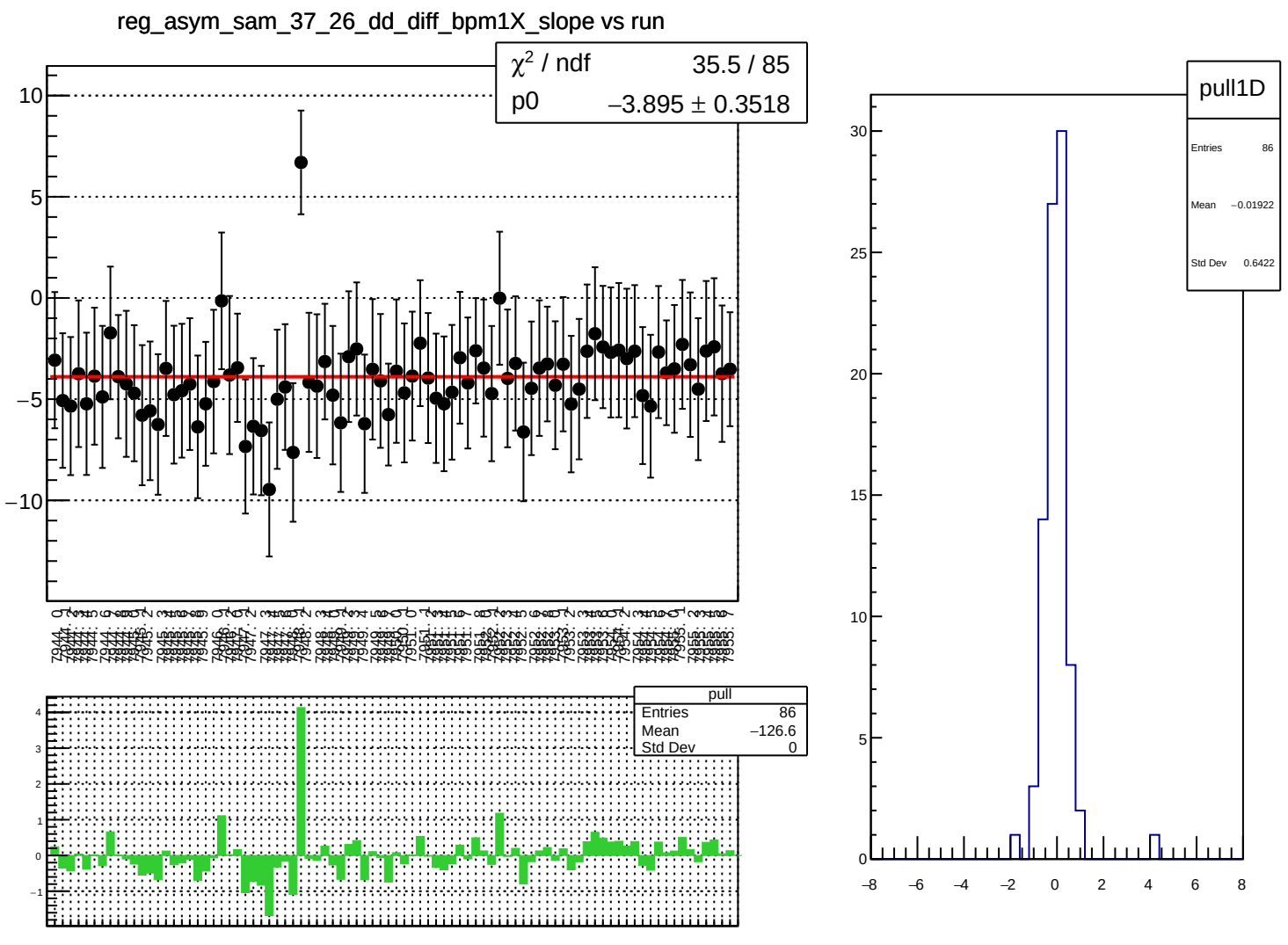

pull1D
Entries 86
Mean −0.003146
Std Dev 0.3677

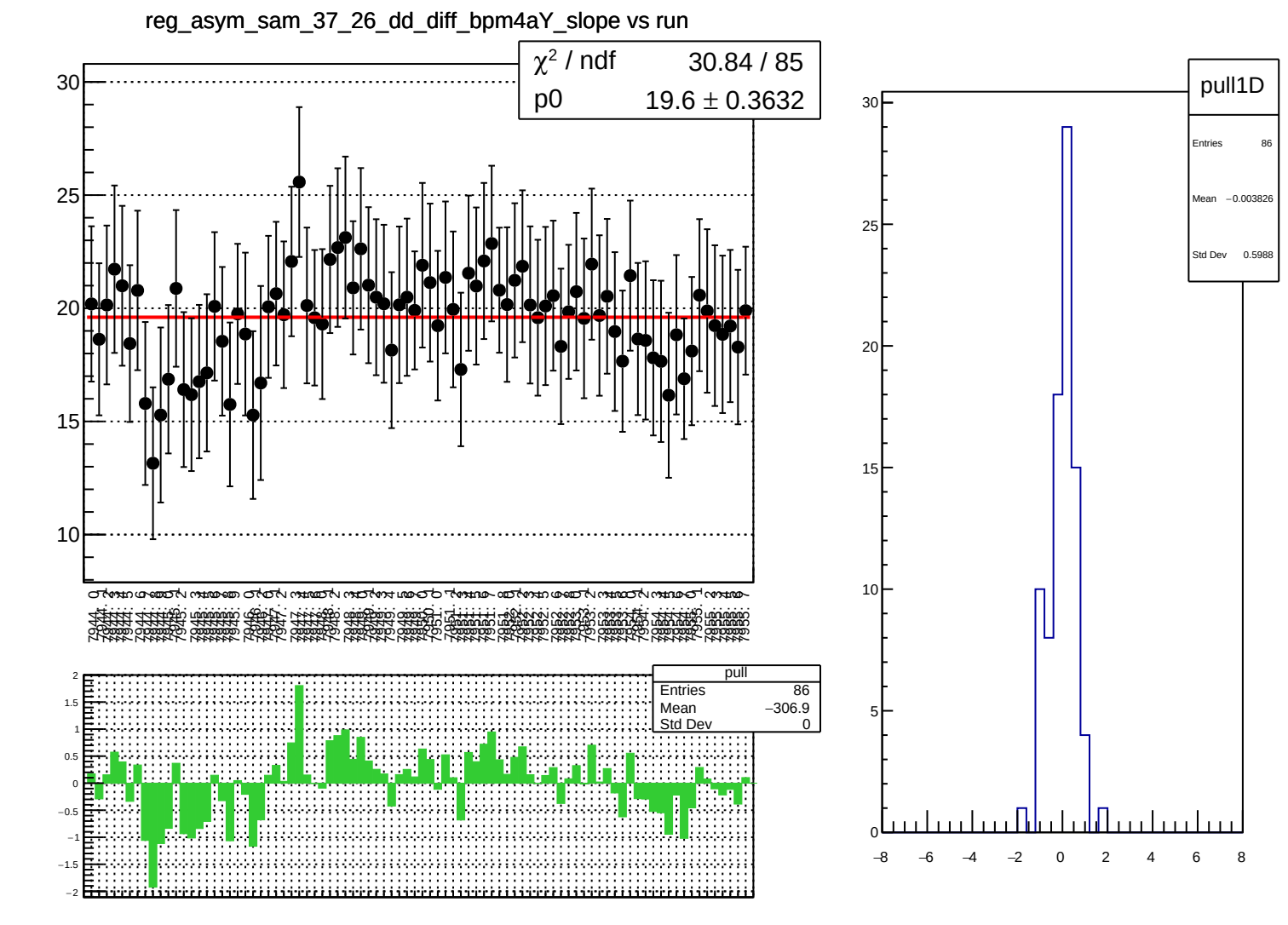

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.15 / 85
p0 14.17 ± 1.247
pull
Entries 86
Mean 1849
Std Dev 0
pull1D
Entries 86
Mean 0.002262
Std Dev 0.4057

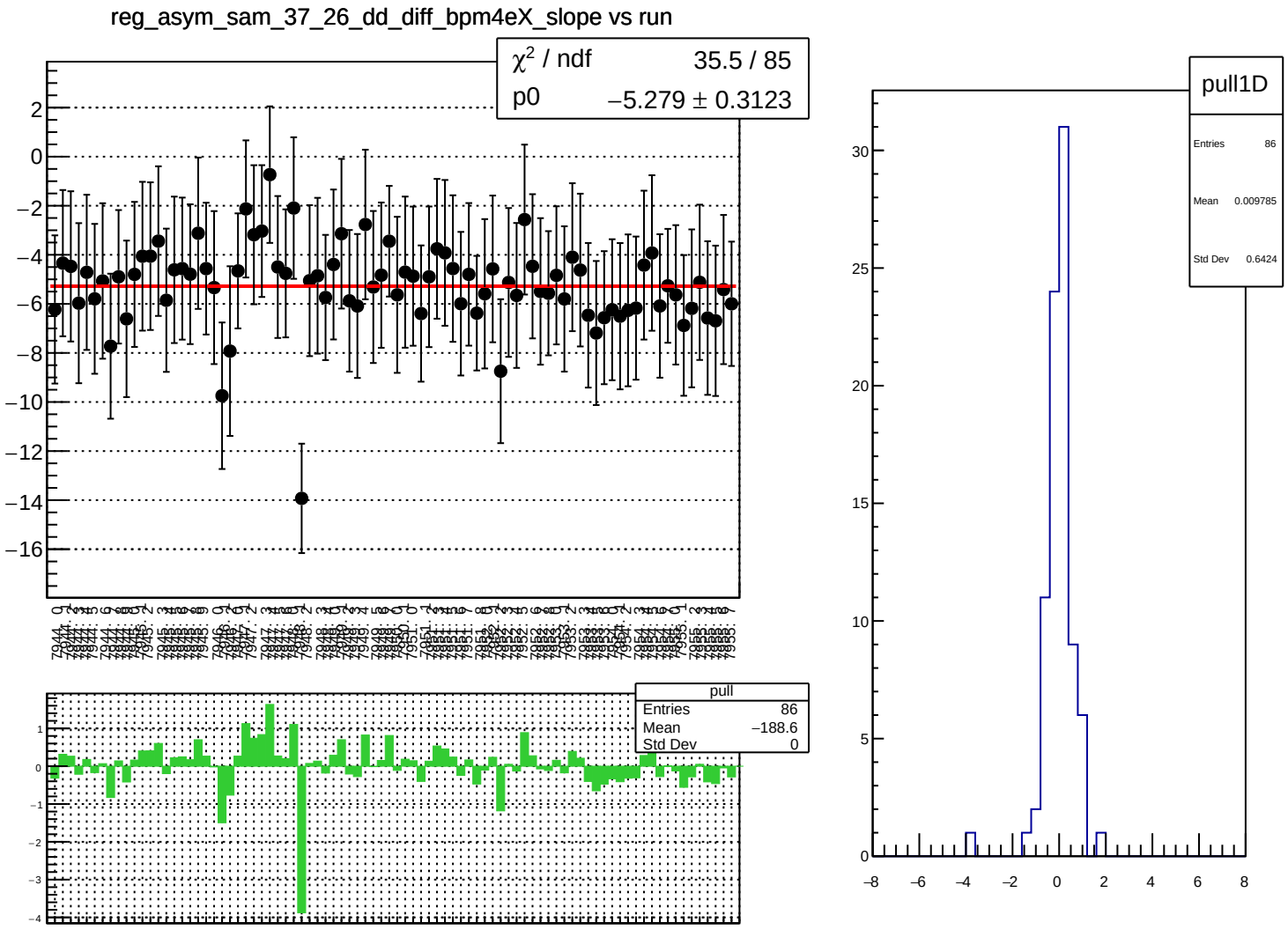

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.44 / 85
p0 11.03 ± 1.667
pull
Entries 86
Mean −761.1
Std Dev 0
pull1D
Entries 86
Mean 0.003639
Std Dev 0.3647

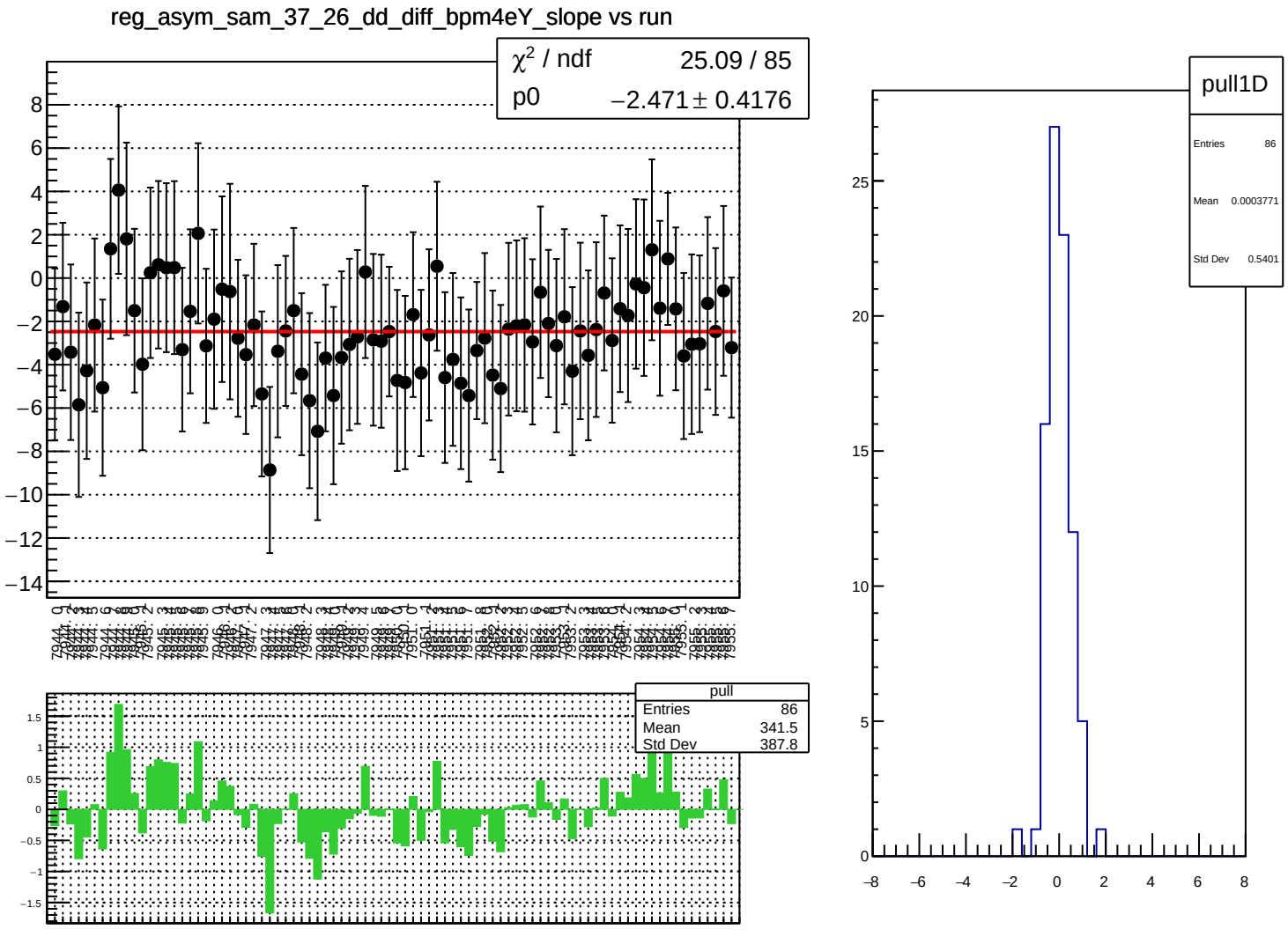

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.414 / 85
p0 −0.4355 ± 0.04688
pull
Entries 86
Mean −266.3
Std Dev 0

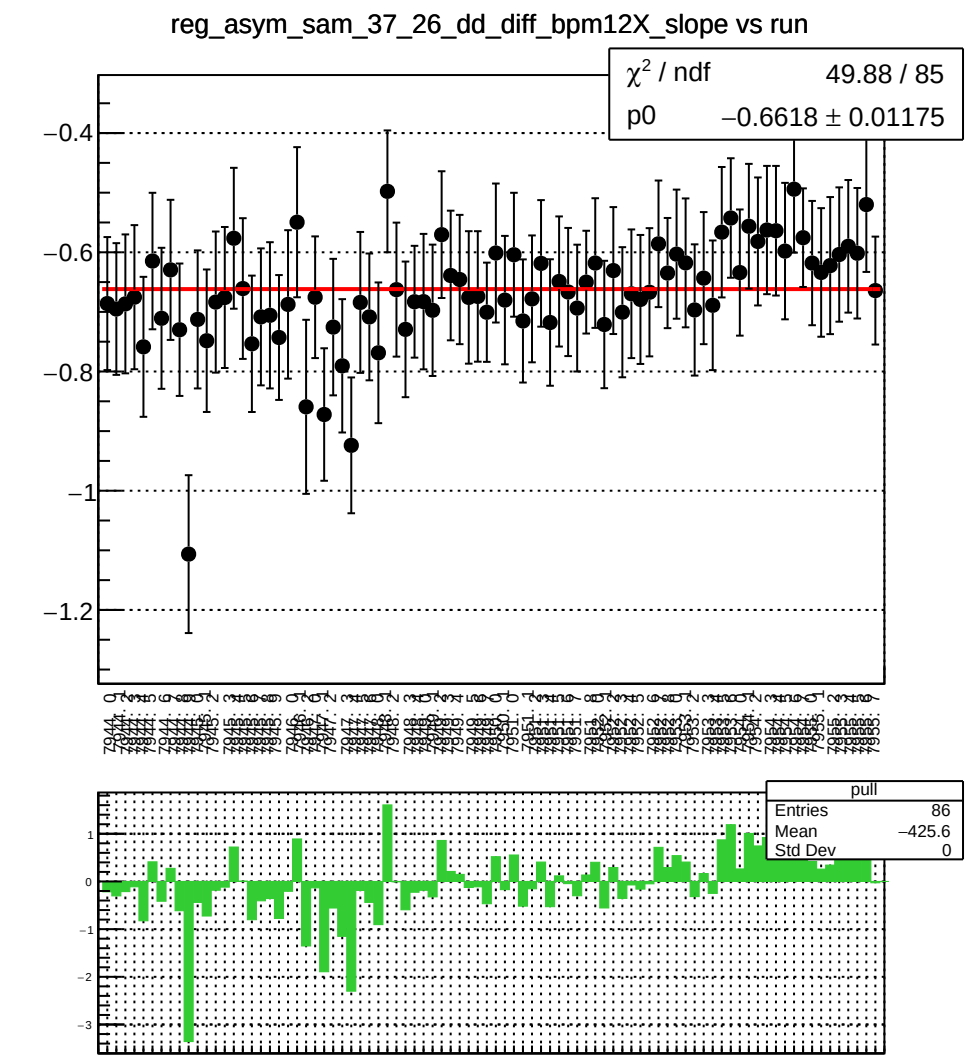

pull1D
Entries 86
Mean 0.006662
Std Dev 0.2935

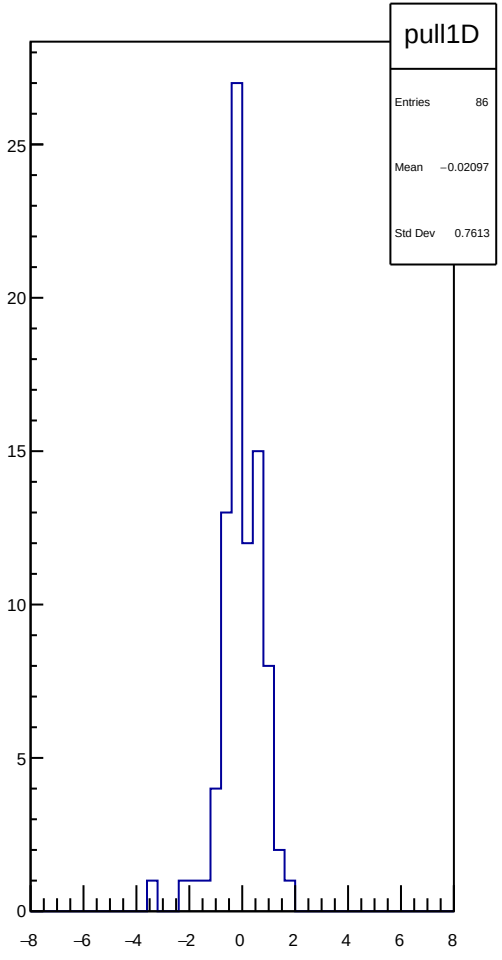

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 35.5 / 85
p0 −3.895 ± 0.3518
pull
Entries 86
Mean −126.6
Std Dev 0
pull1D
Entries 86
Mean −0.01922
Std Dev 0.6422

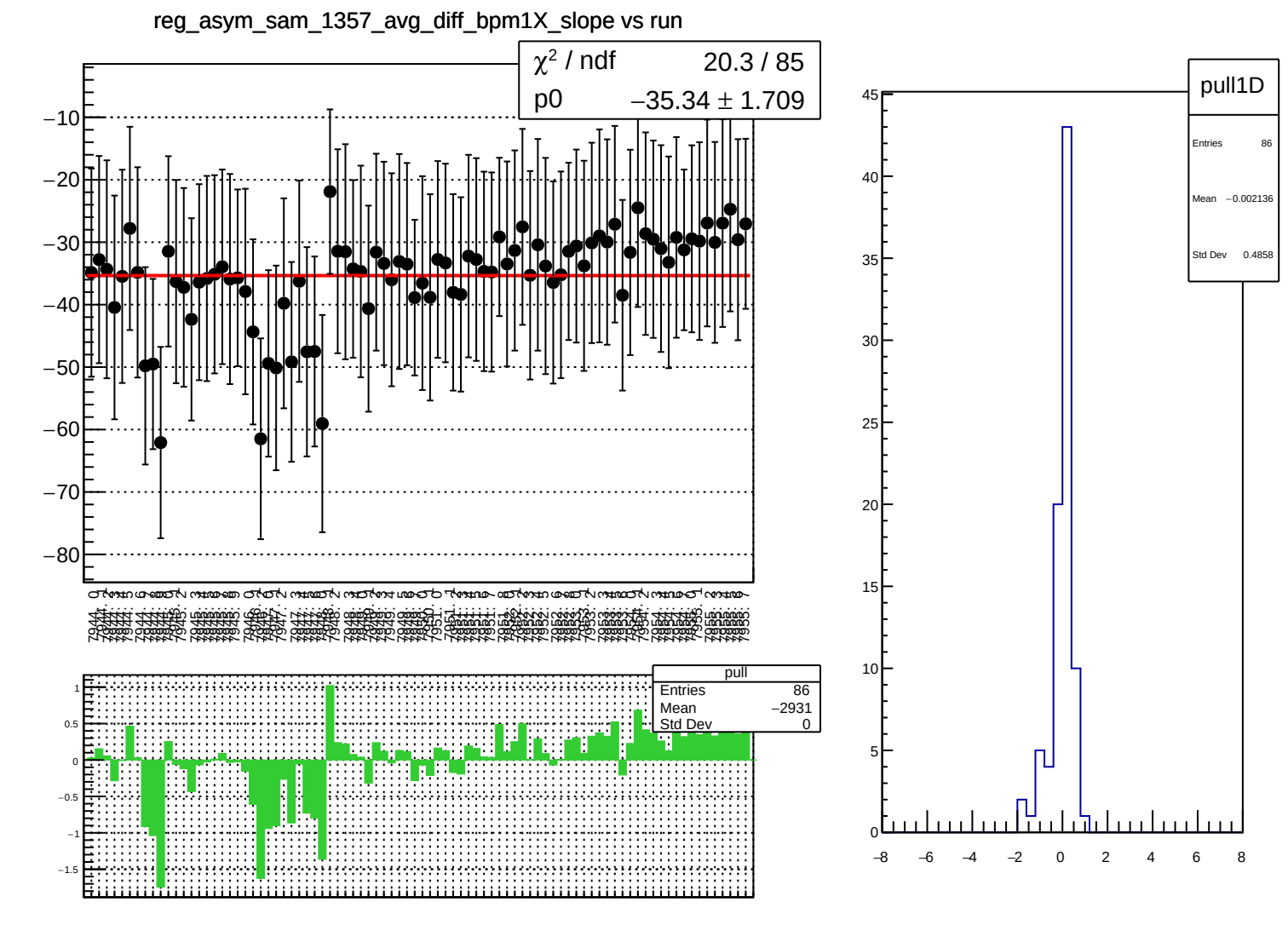

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.84 / 85
p0 19.6 ± 0.3632
pull
Entries 86
Mean −306.9
Std Dev 0
pull1D
Entries 86
Mean −0.003826
Std Dev 0.5988

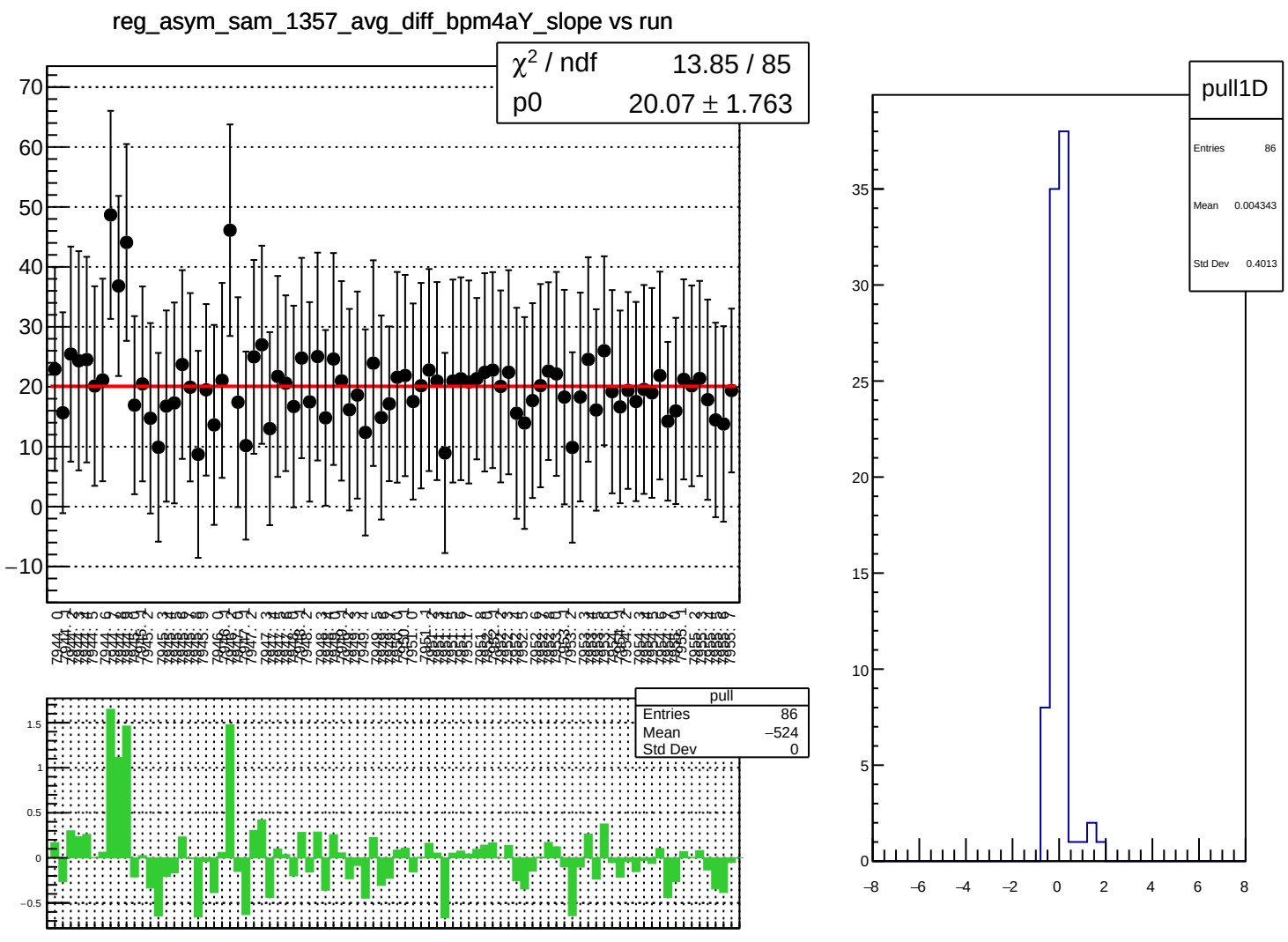

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.5 / 85
p0 −5.279 ± 0.3123
pull
Entries 86
Mean −188.6
Std Dev 0
pull1D
Entries 86
Mean 0.009785
Std Dev 0.6424

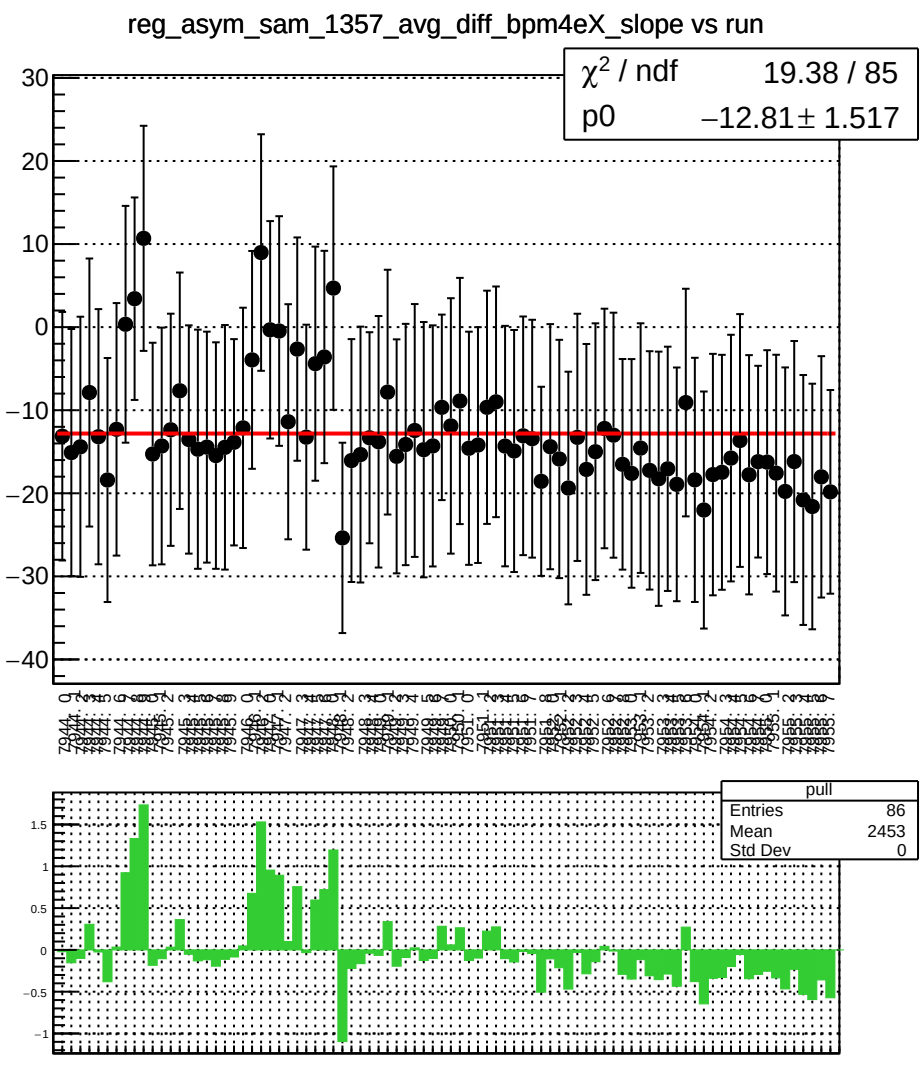

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.09 / 85
p0 −2.471 ± 0.4176
pull
Entries 86
Mean 341.5
Std Dev 387.8
pull1D
Entries 86
Mean 0.0003771
Std Dev 0.5401

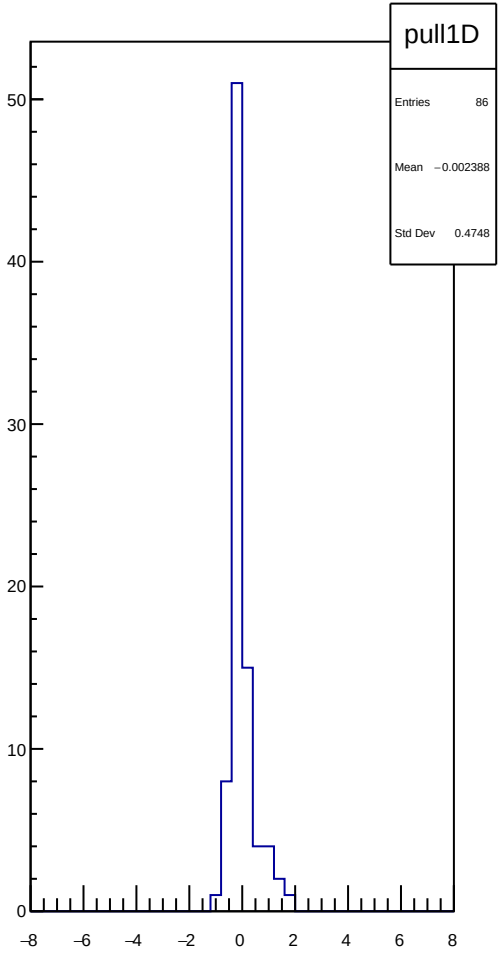

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 49.88 / 85
p0 −0.6618 ± 0.01175
pull
Entries 86
Mean −425.6
Std Dev 0

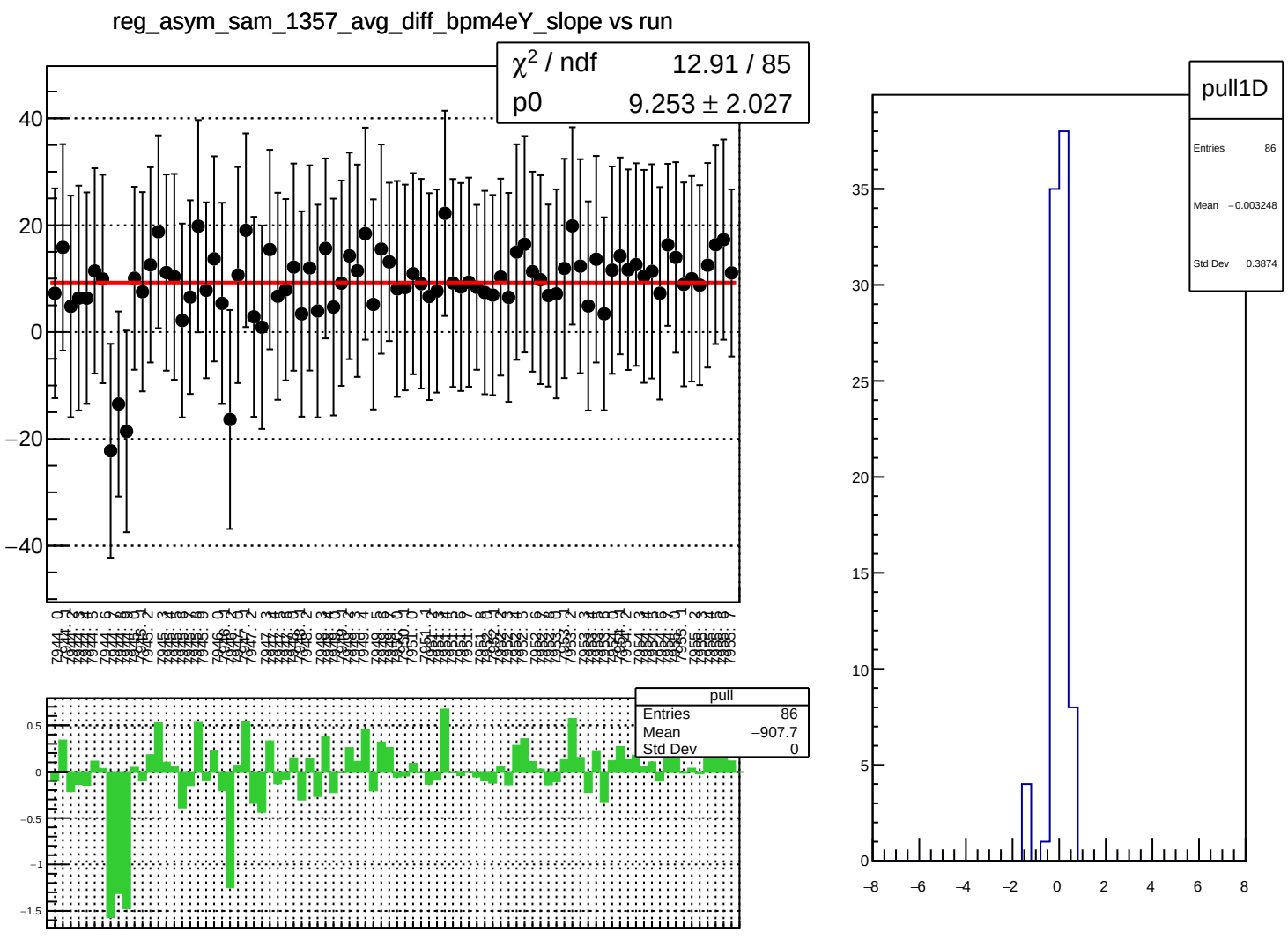

pull1D
Entries 86
Mean −0.02097
Std Dev 0.7613

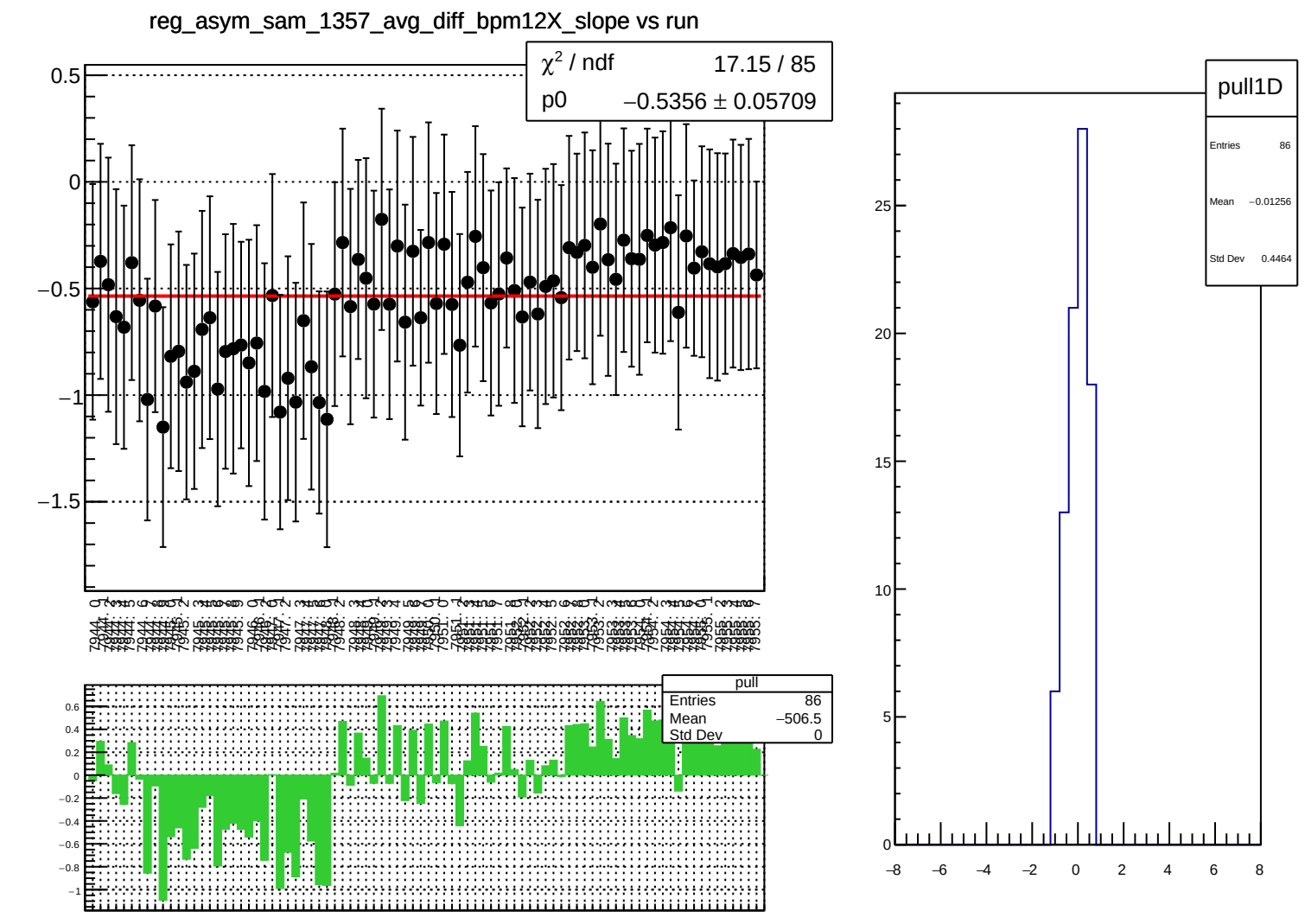

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 20.3 / 85
p0 −35.34 ± 1.709
pull
Entries 86
Mean −2931
Std Dev 0
pull1D
Entries 86
Mean −0.002136
Std Dev 0.4858

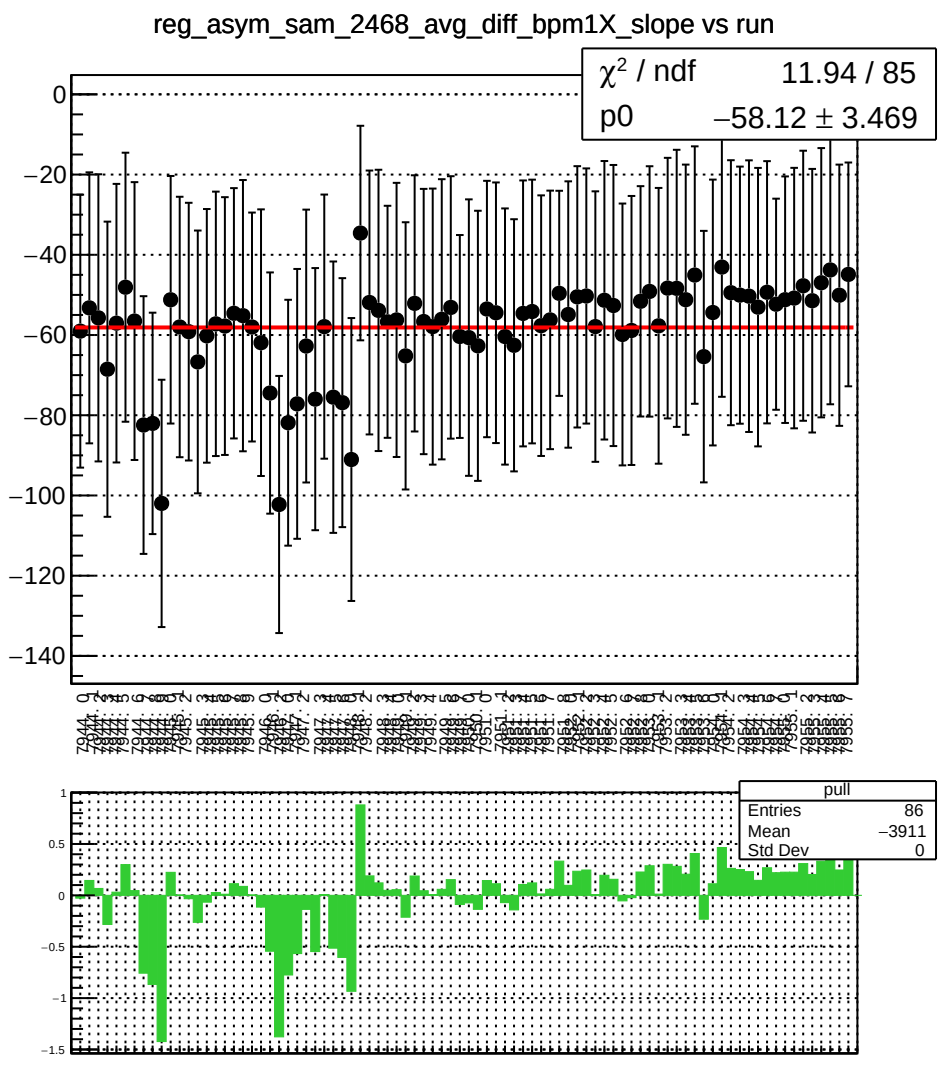

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.85 / 85
p0 20.07 ± 1.763
pull
Entries 86
Mean −524
Std Dev 0
pull1D
Entries 86
Mean 0.004343
Std Dev 0.4013

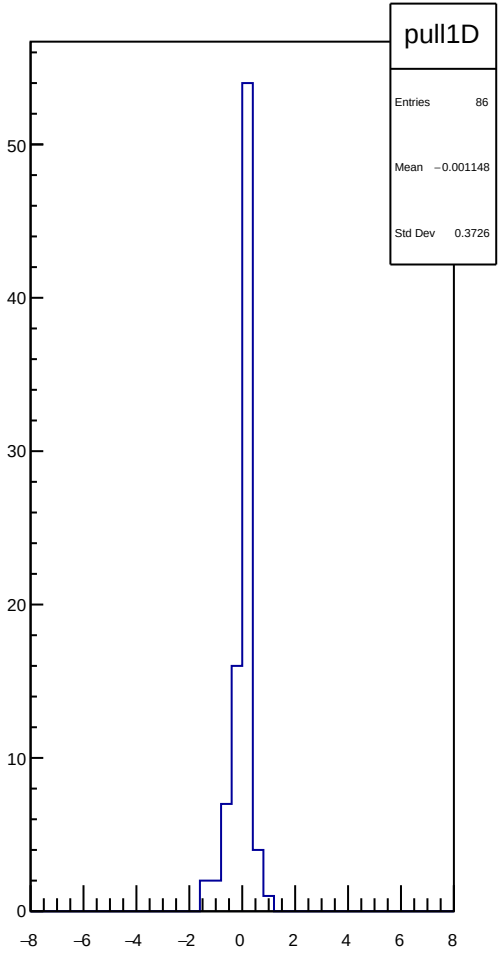

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.38 / 85
p0 −12.81 ± 1.517
pull
Entries 86
Mean 2453
Std Dev 0

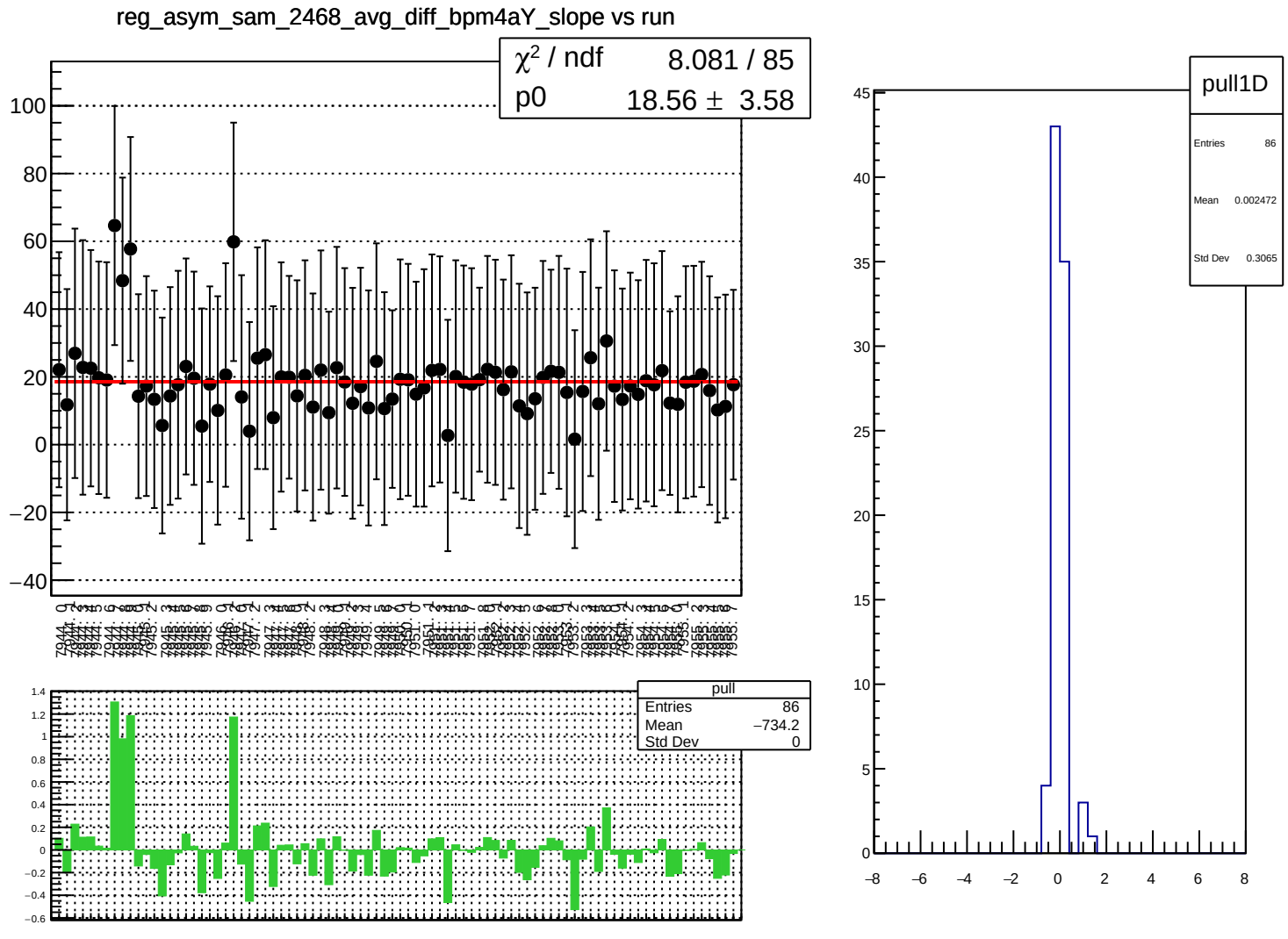

pull1D
Entries 86
Mean −0.002388
Std Dev 0.4748

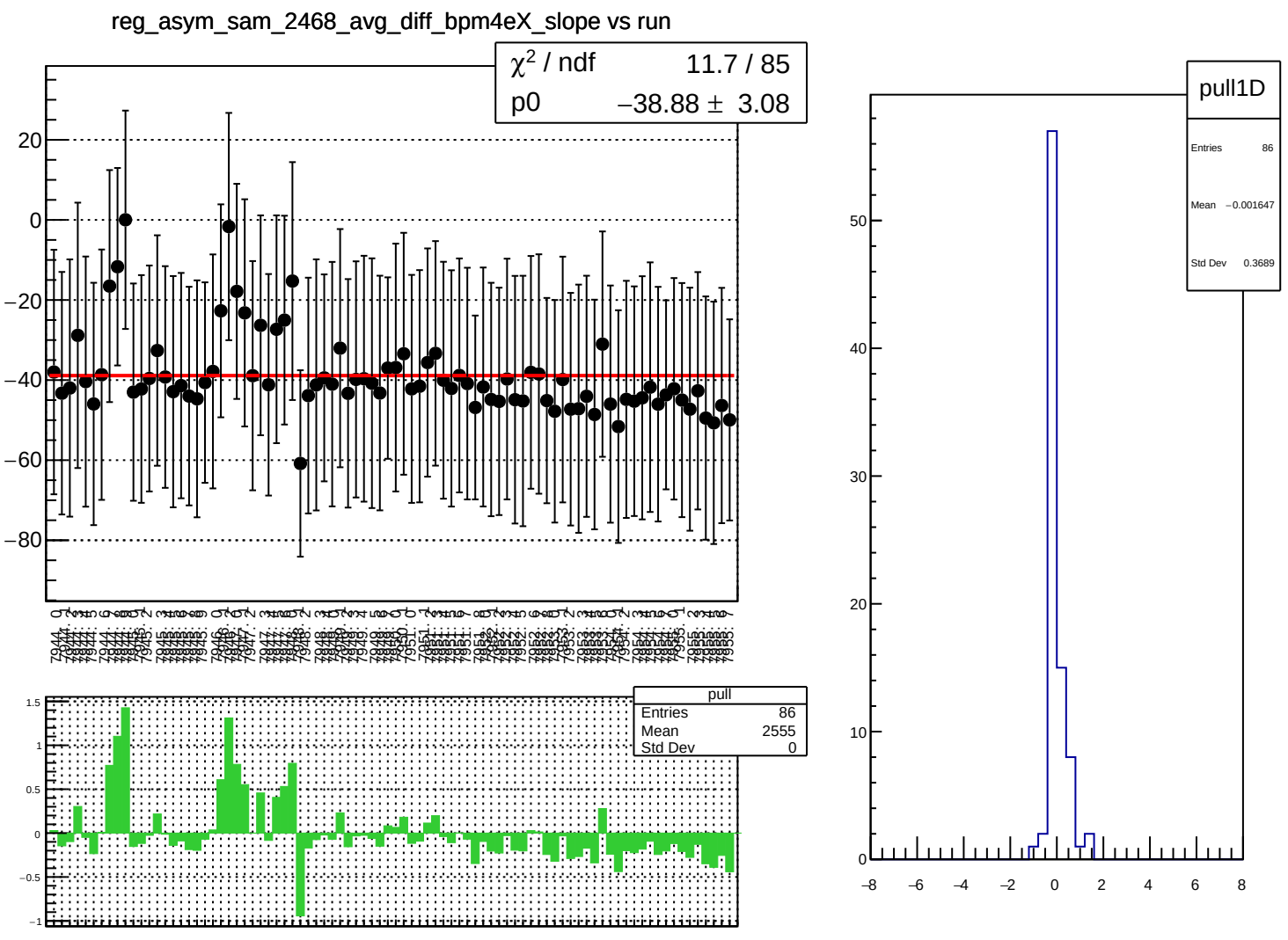

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.91 / 85
p0 9.253 ± 2.027
pull
Entries 86
Mean −907.7
Std Dev 0
pull1D
Entries 86
Mean −0.003248
Std Dev 0.3874

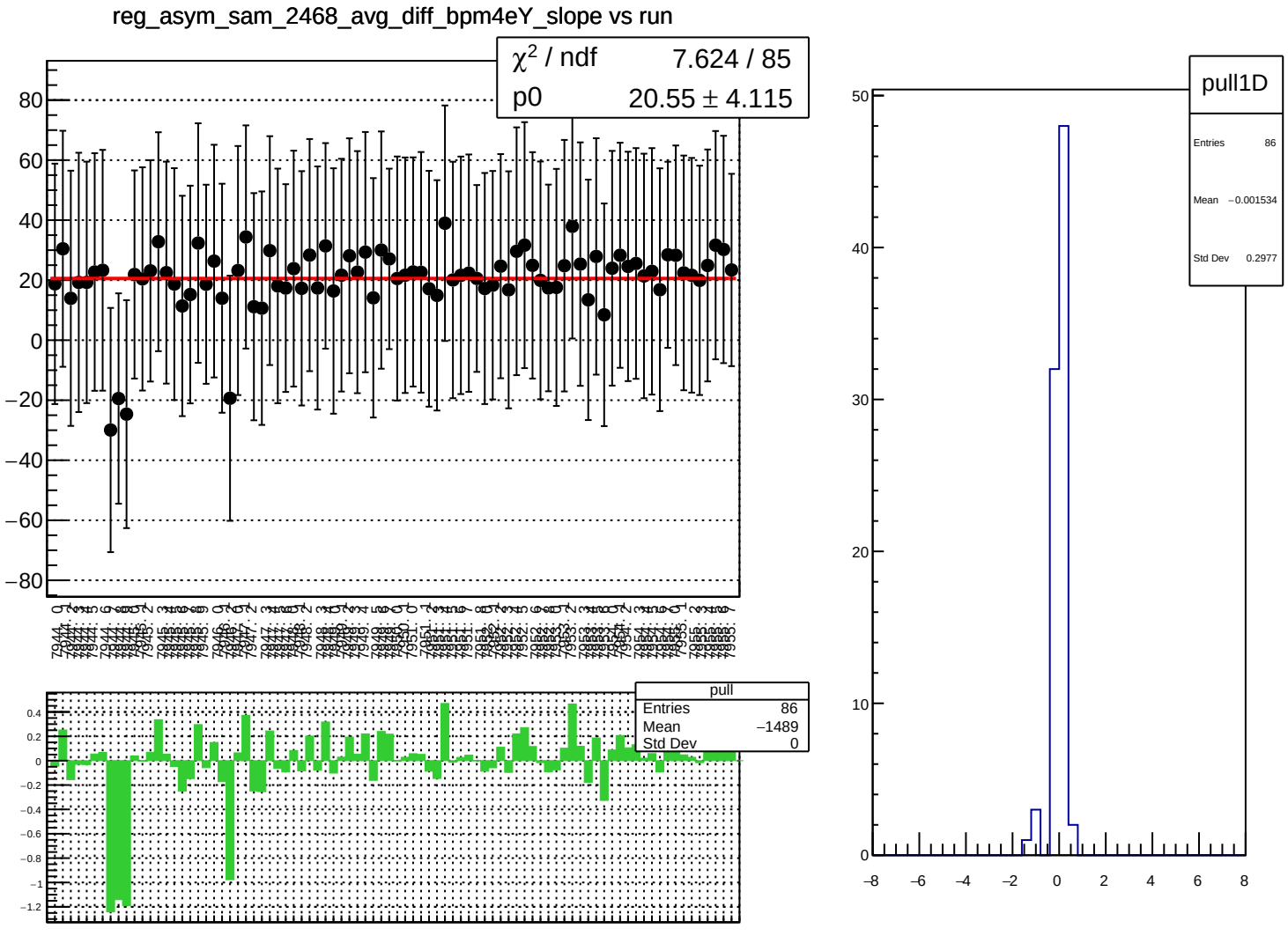

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 17.15 / 85
p0 −0.5356 ± 0.05709
pull
Entries 86
Mean −506.5
Std Dev 0
pull1D
Entries 86
Mean −0.01256
Std Dev 0.4464

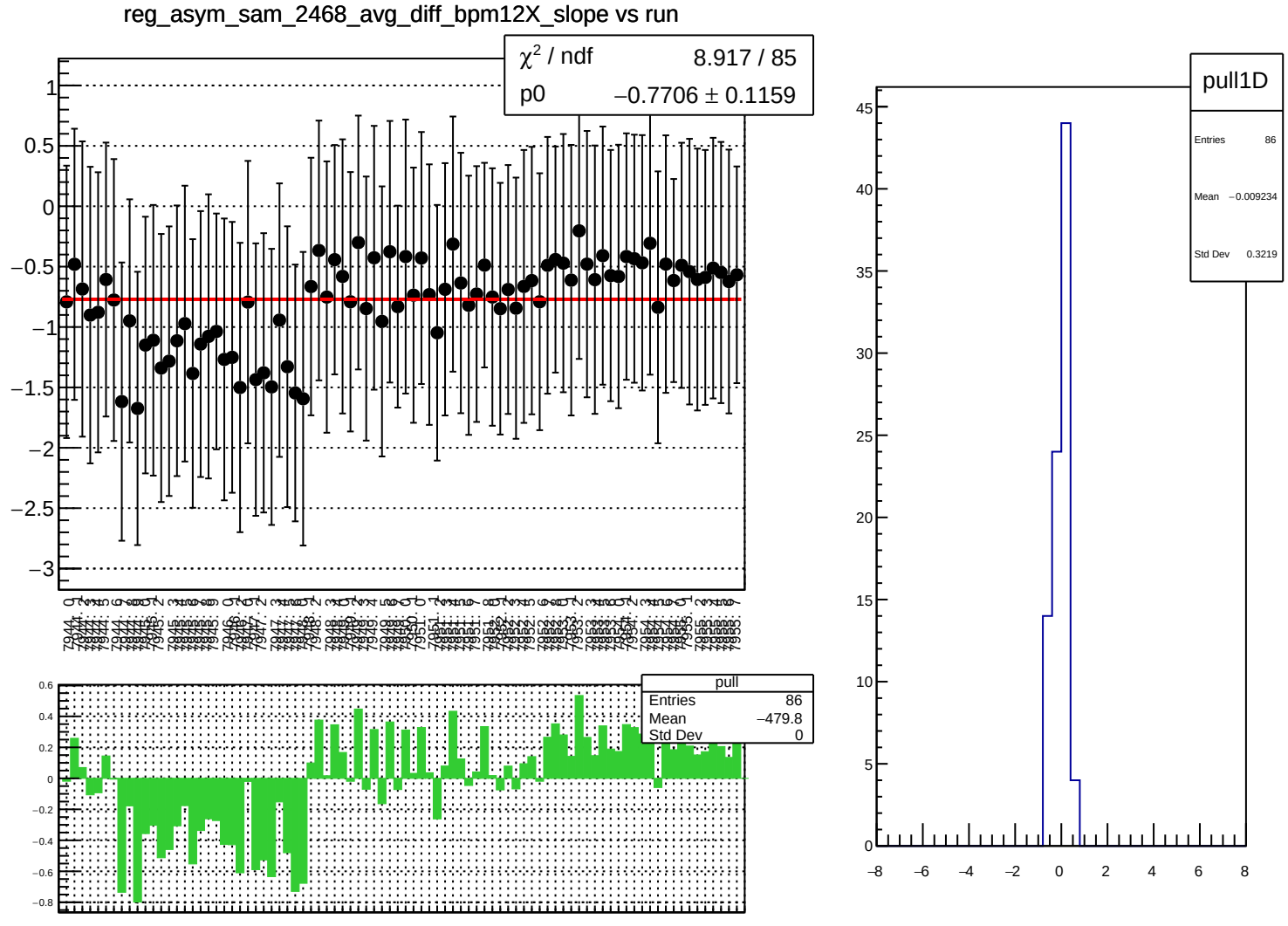

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 11.94 / 85
p0 −58.12 ± 3.469
pull
Entries 86
Mean −3911
Std Dev 0

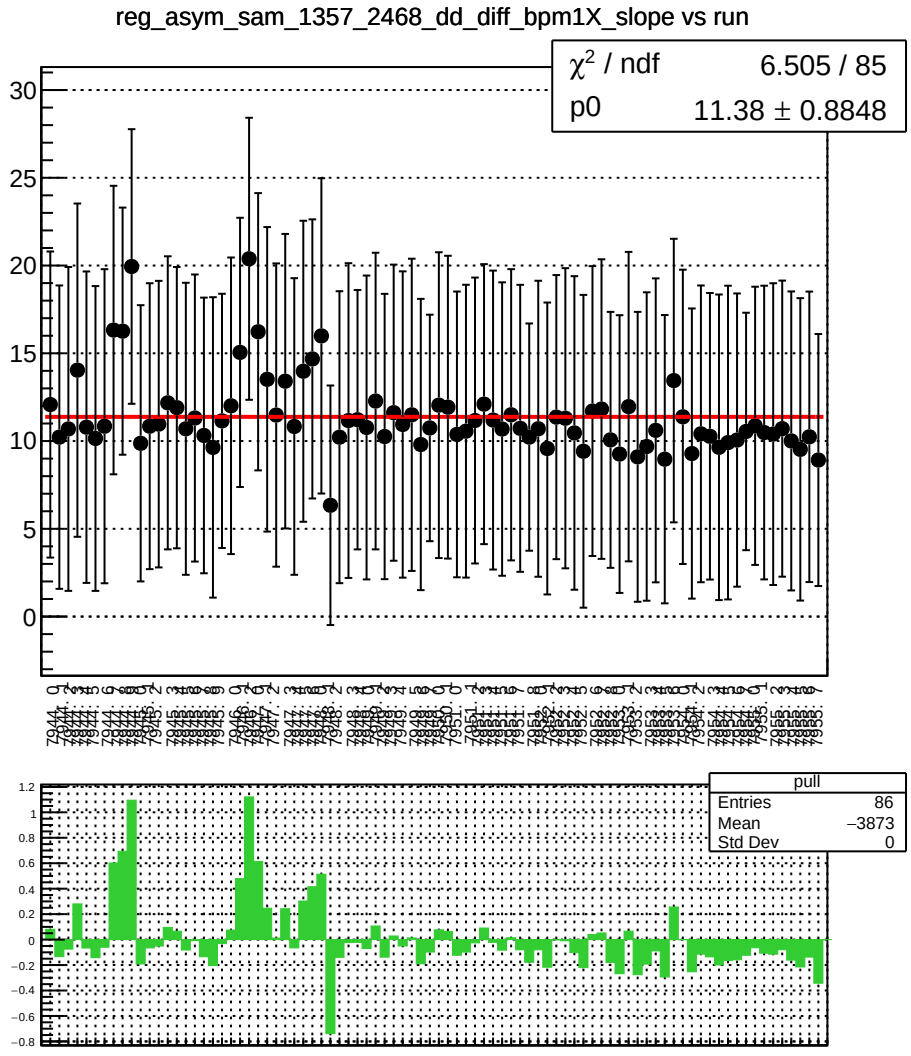

pull1D
Entries 86
Mean −0.001148
Std Dev 0.3726

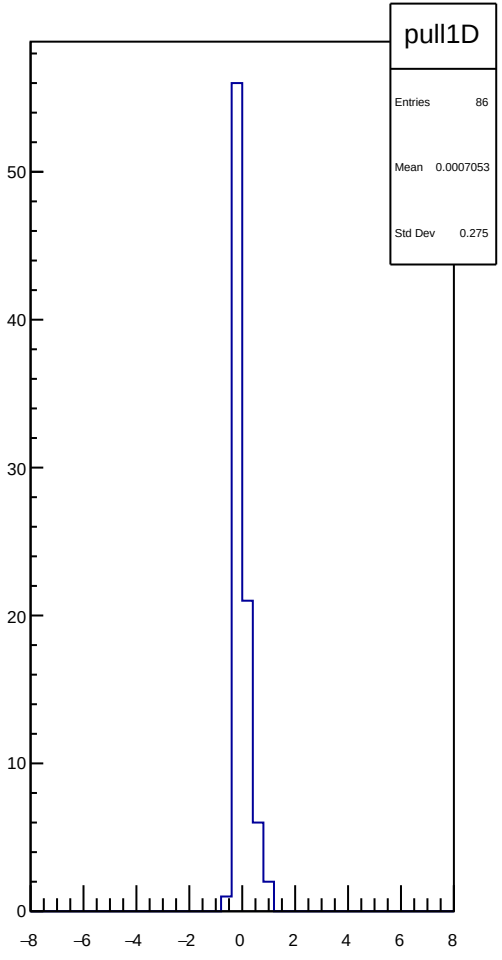

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.081 / 85
p0 18.56 ± 3.58
pull
Entries 86
Mean −734.2
Std Dev 0
pull1D
Entries 86
Mean 0.002472
Std Dev 0.3065

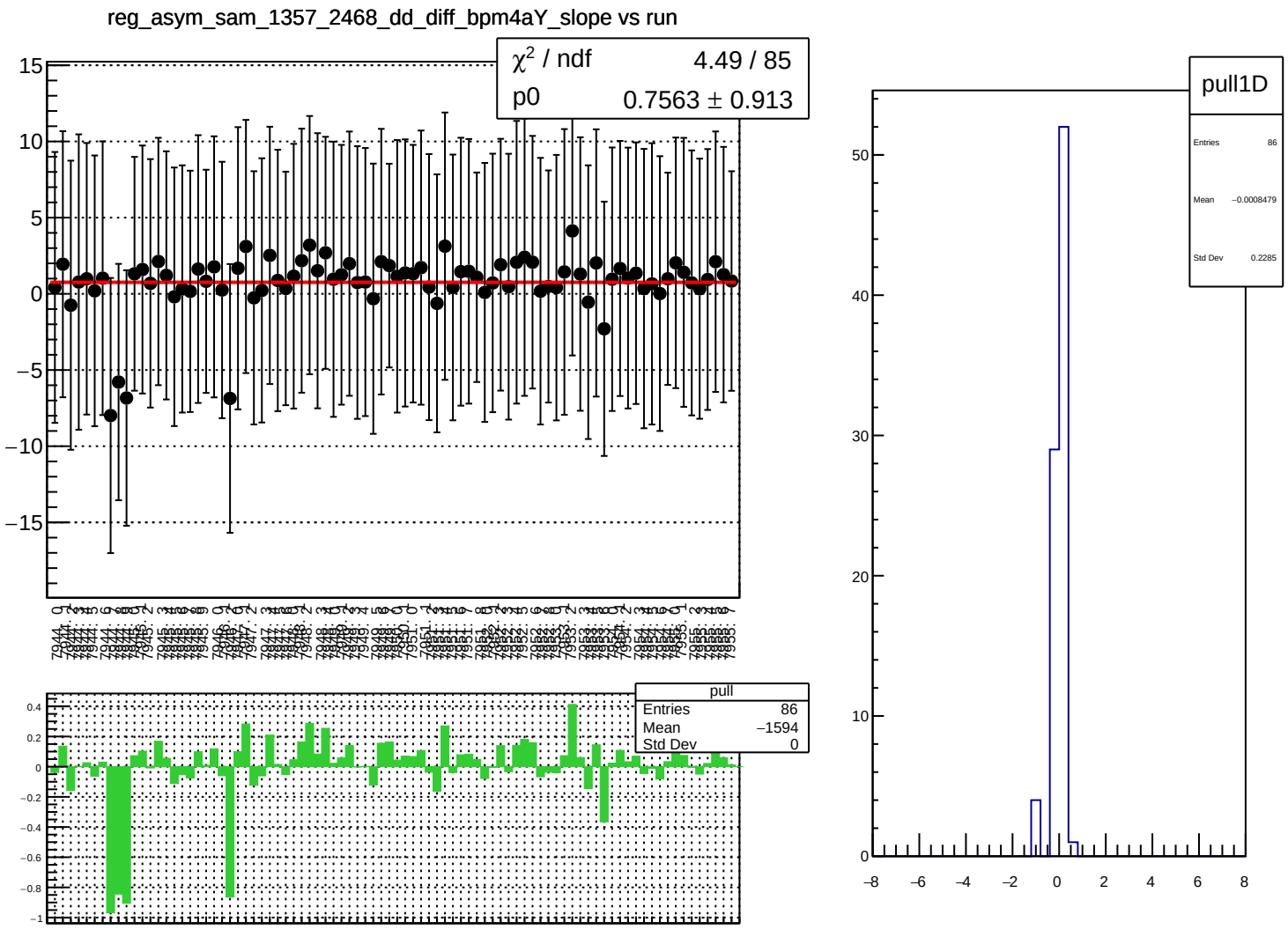

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.7 / 85
p0 −38.88 ± 3.08
pull
Entries 86
Mean 2555
Std Dev 0
pull1D
Entries 86
Mean −0.001647
Std Dev 0.3689

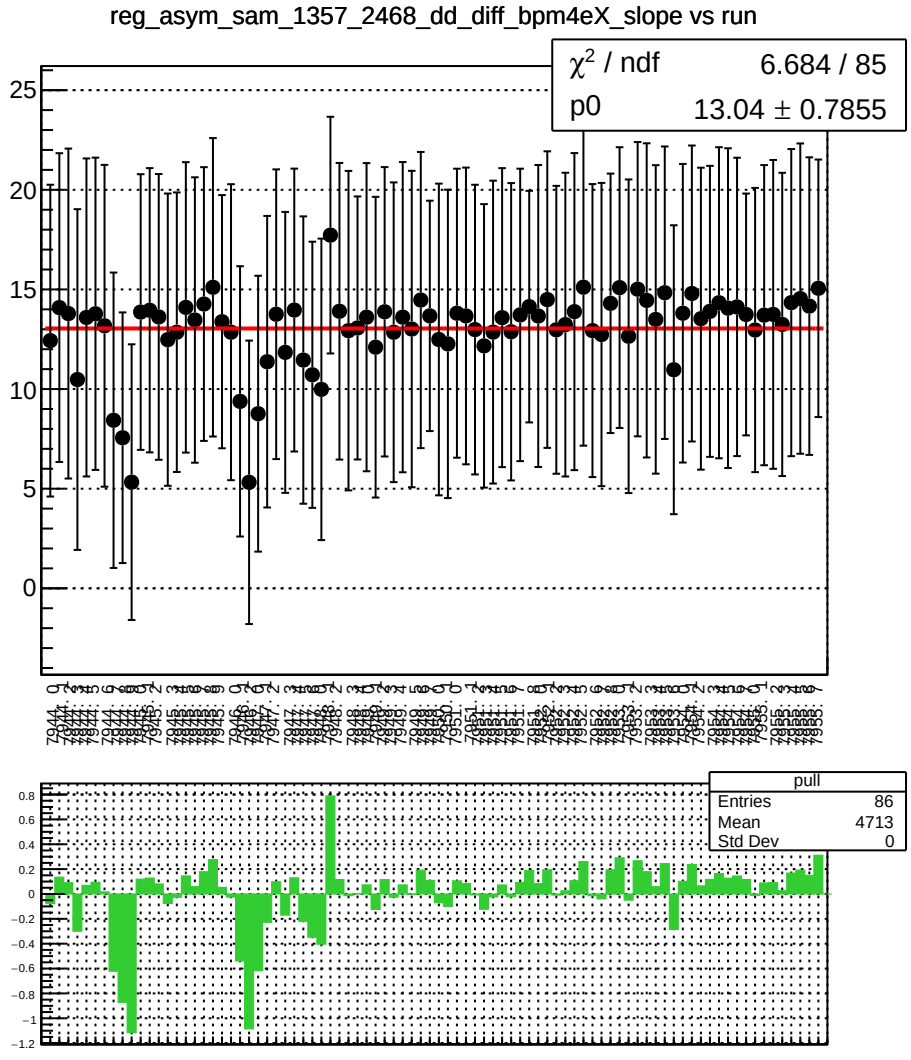

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.624 / 85
p0 20.55 ± 4.115
pull
Entries 86
Mean −1489
Std Dev 0
pull1D
Entries 86
Mean −0.001534
Std Dev 0.2977

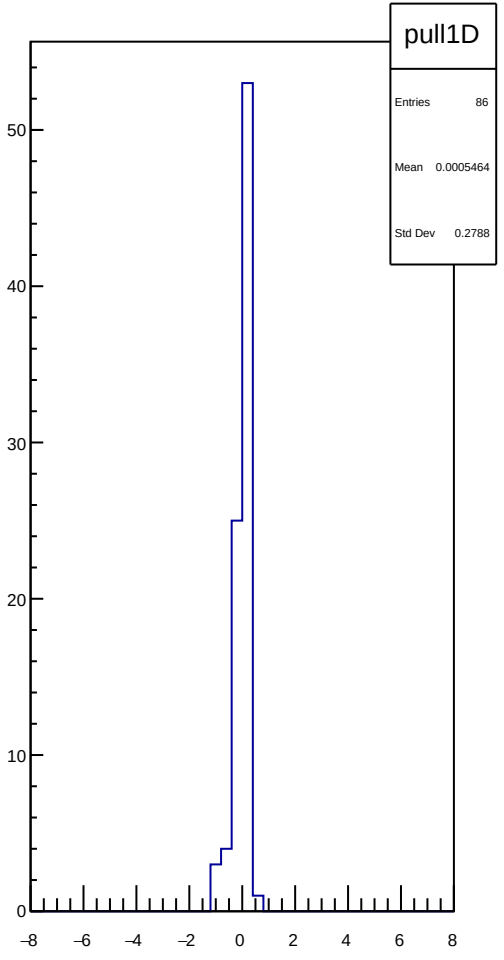

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 8.917 / 85
p0 −0.7706 ± 0.1159
pull
Entries 86
Mean −479.8
Std Dev 0
pull1D
Entries 86
Mean −0.009234
Std Dev 0.3219

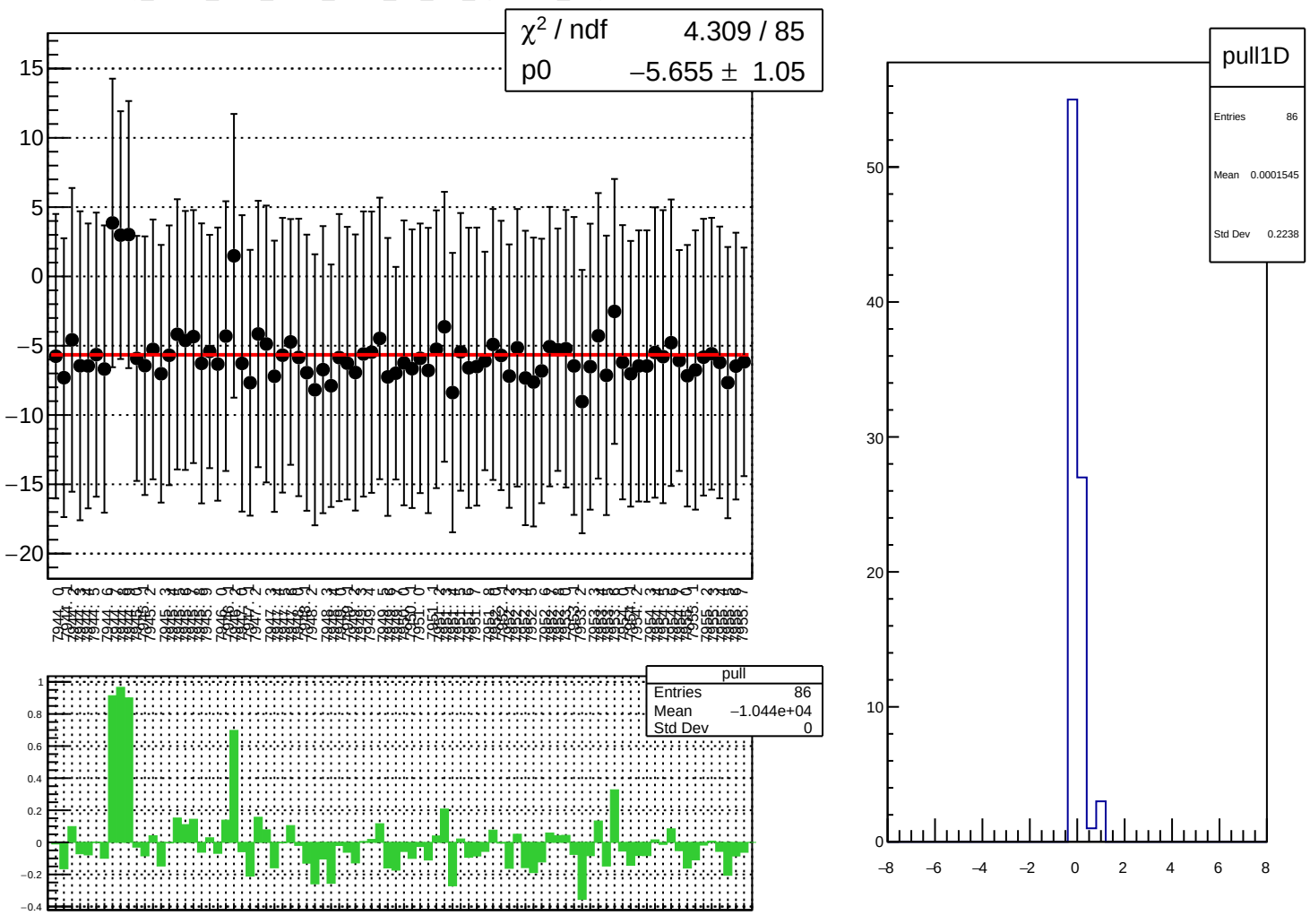

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 6.505 / 85
p0 11.38 ± 0.8848
pull
Entries 86
Mean −3873
Std Dev 0

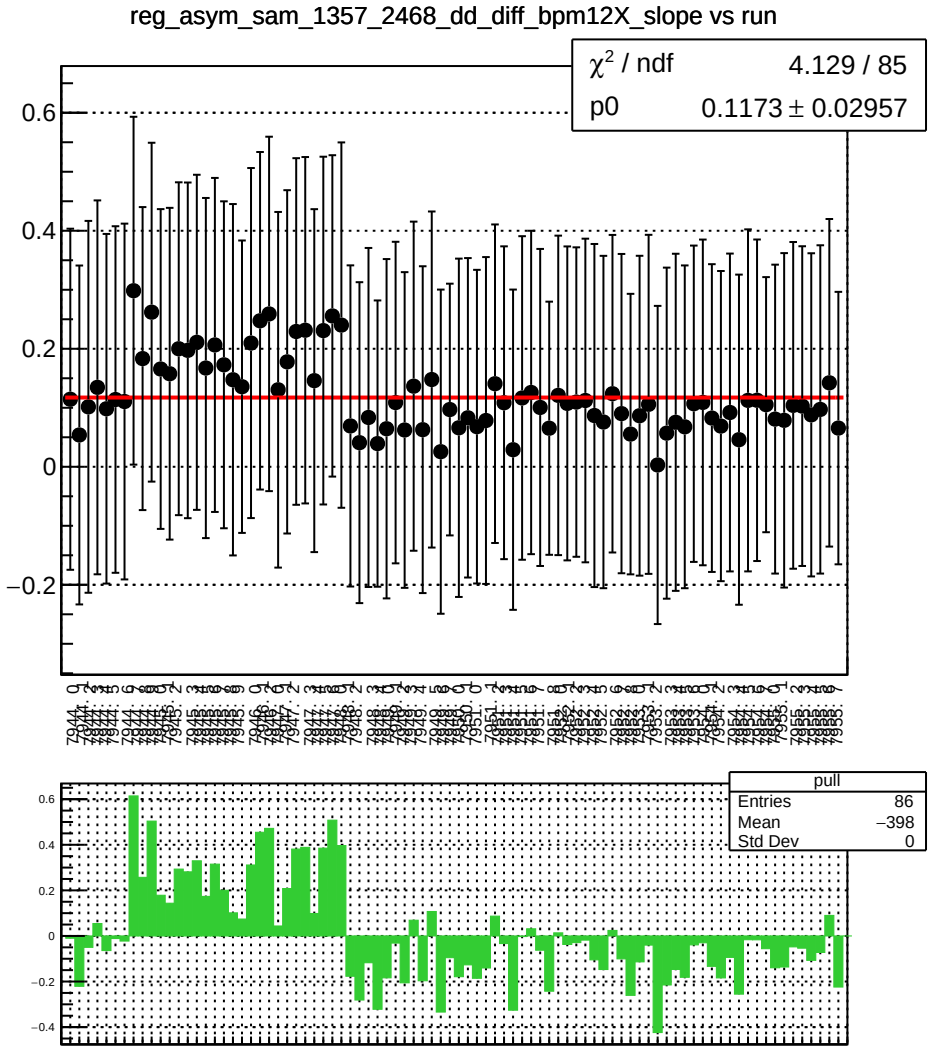

pull1D
Entries 86
Mean 0.0007053
Std Dev 0.275

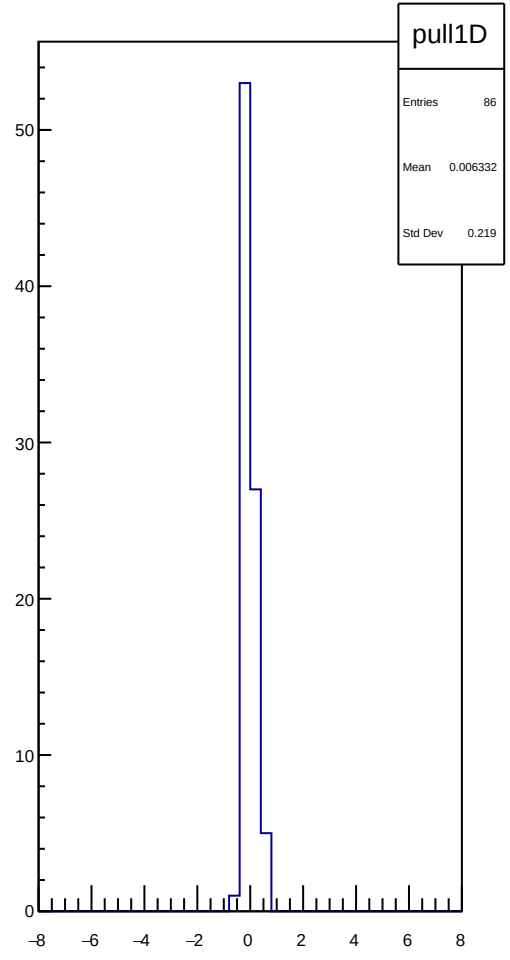

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.49 / 85
p0 0.7563 ± 0.913
pull
Entries 86
Mean −1594
Std Dev 0
pull1D
Entries 86
Mean −0.0008479
Std Dev 0.2285

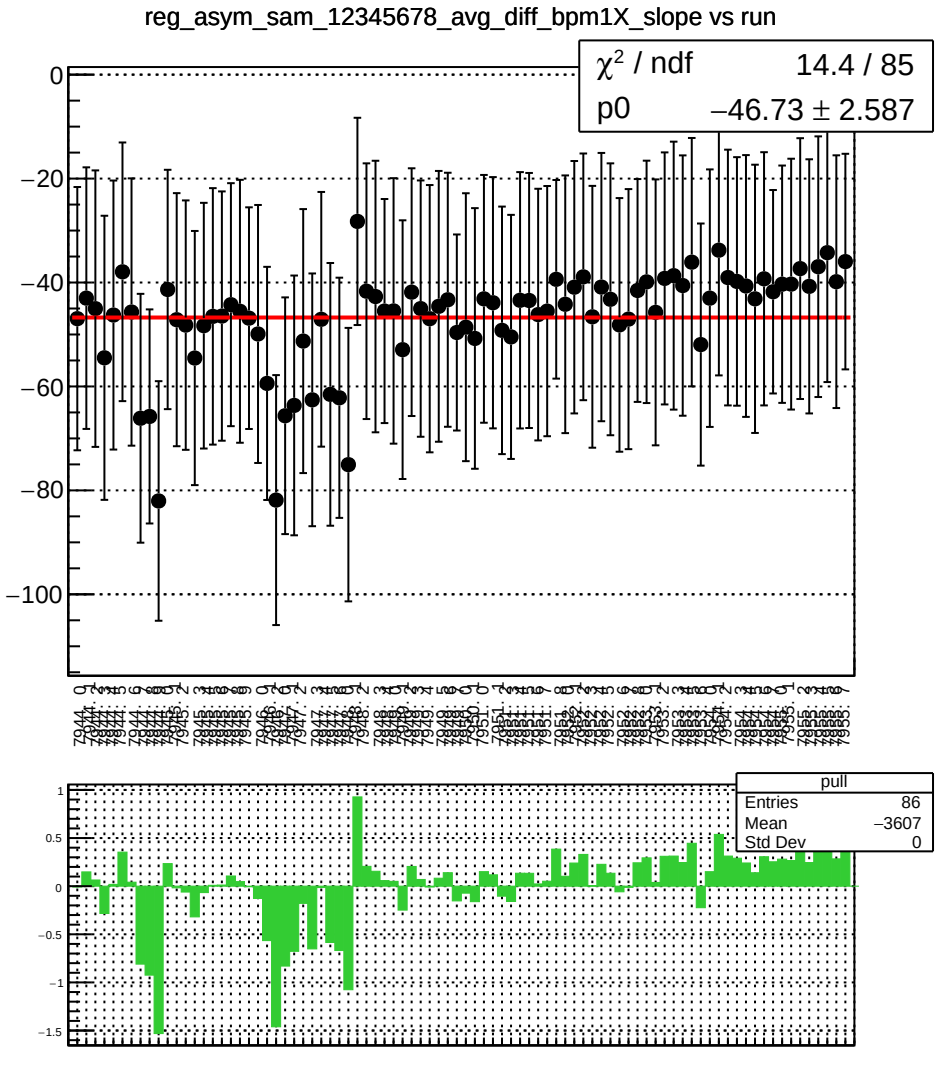

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.684 / 85
p0 13.04 ± 0.7855
pull
Entries 86
Mean 4713
Std Dev 0

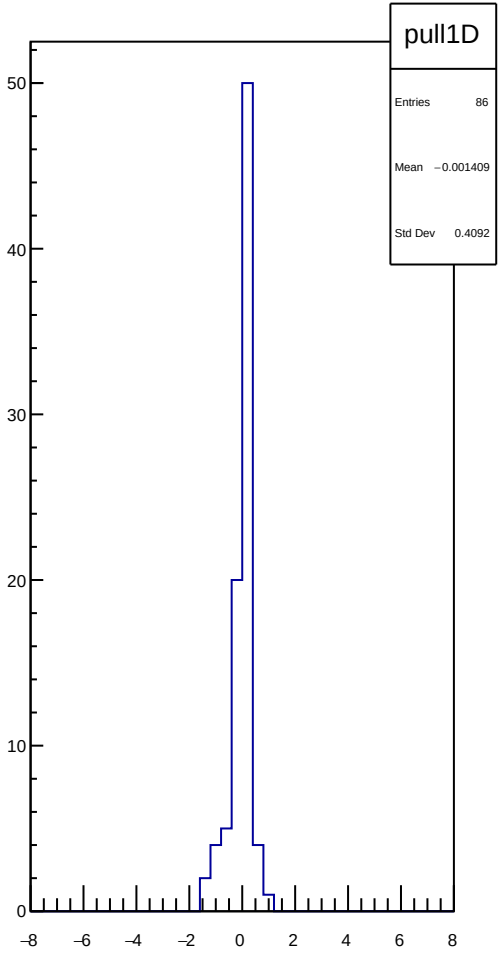

pull1D
Entries 86
Mean 0.0005464
Std Dev 0.2788

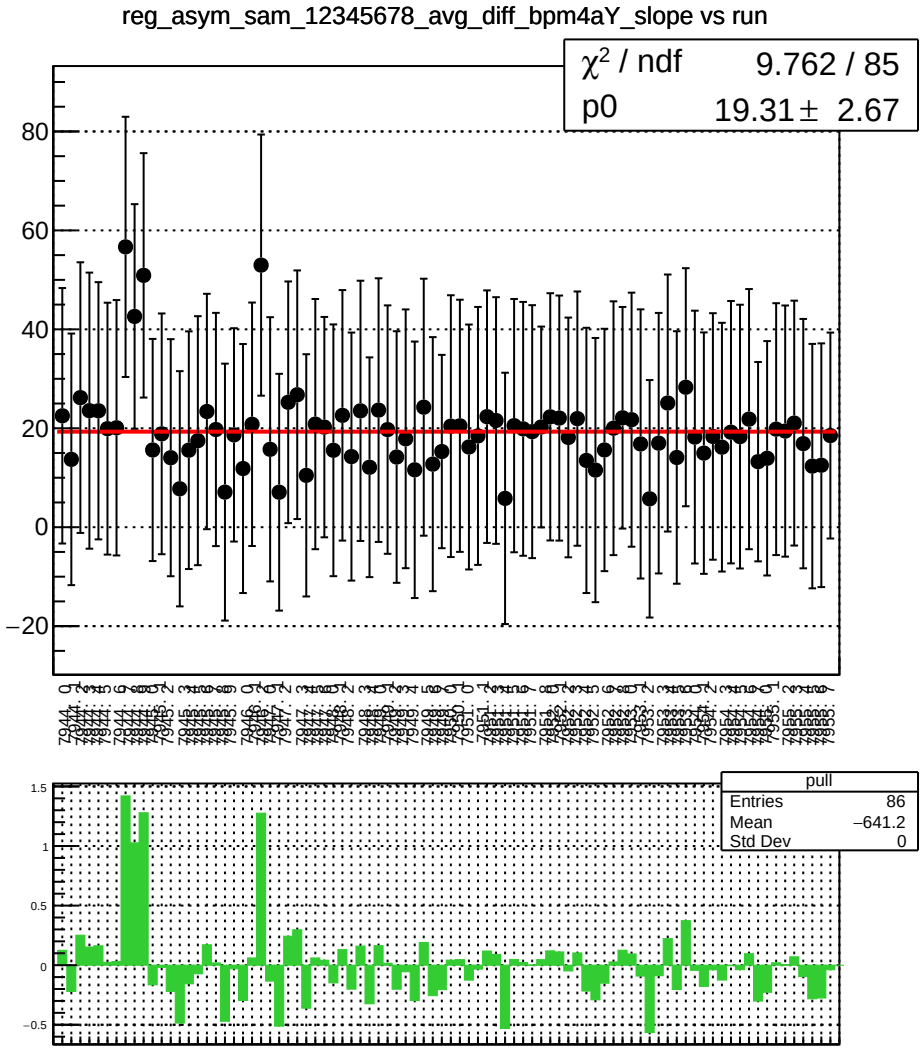

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.309 / 85
p0 −5.655 ± 1.05
pull
Entries 86
Mean −1.044e+04
Std Dev 0
pull1D
Entries 86
Mean 0.0001545
Std Dev 0.2238

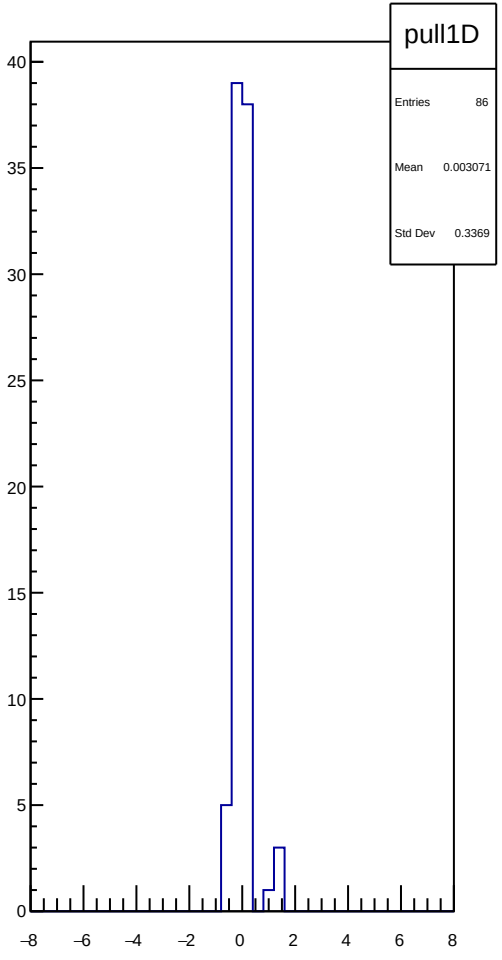

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 4.129 / 85
p0 0.1173 ± 0.02957
pull
Entries 86
Mean −398
Std Dev 0

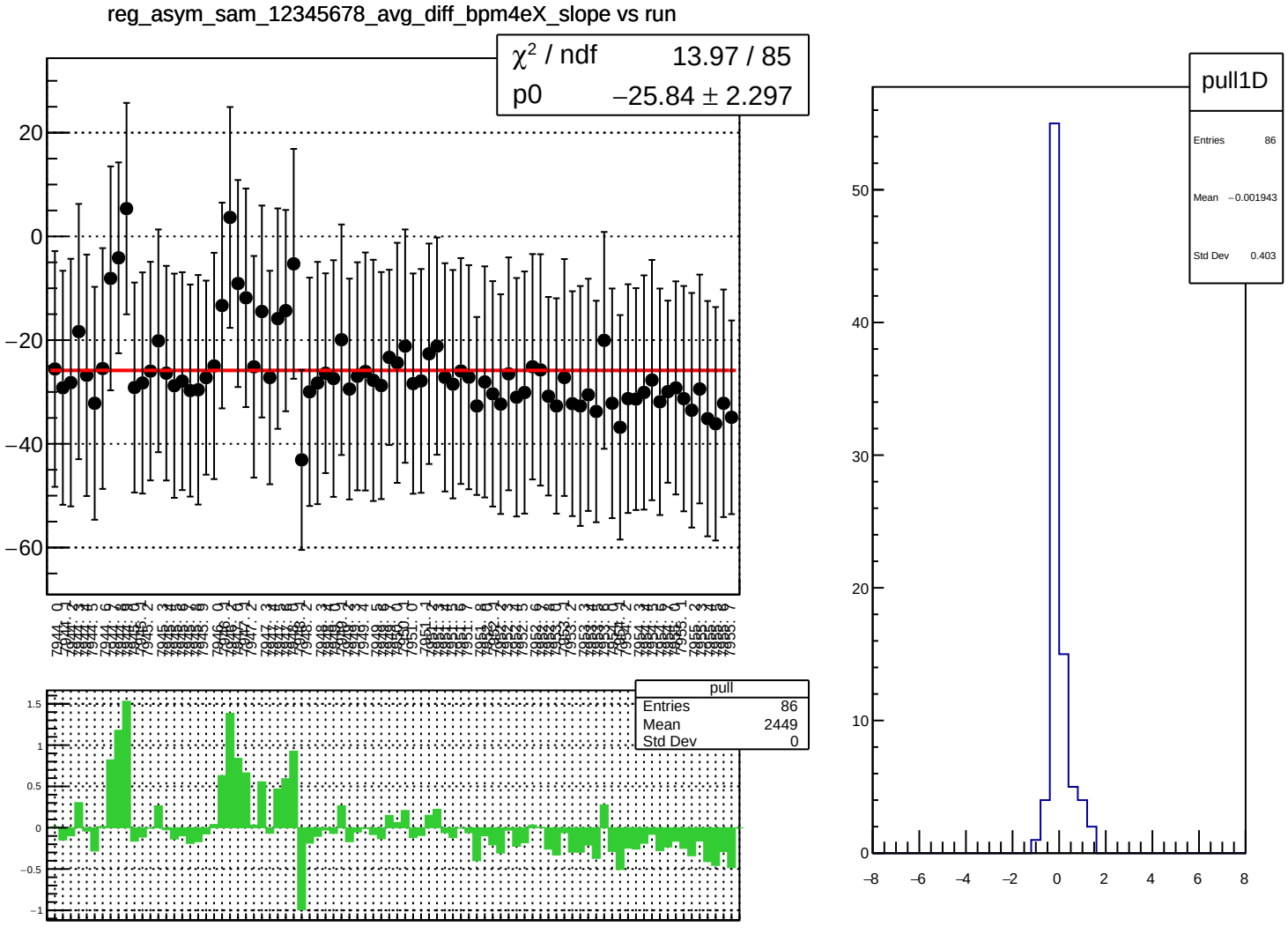

pull1D
Entries 86
Mean 0.006332
Std Dev 0.219

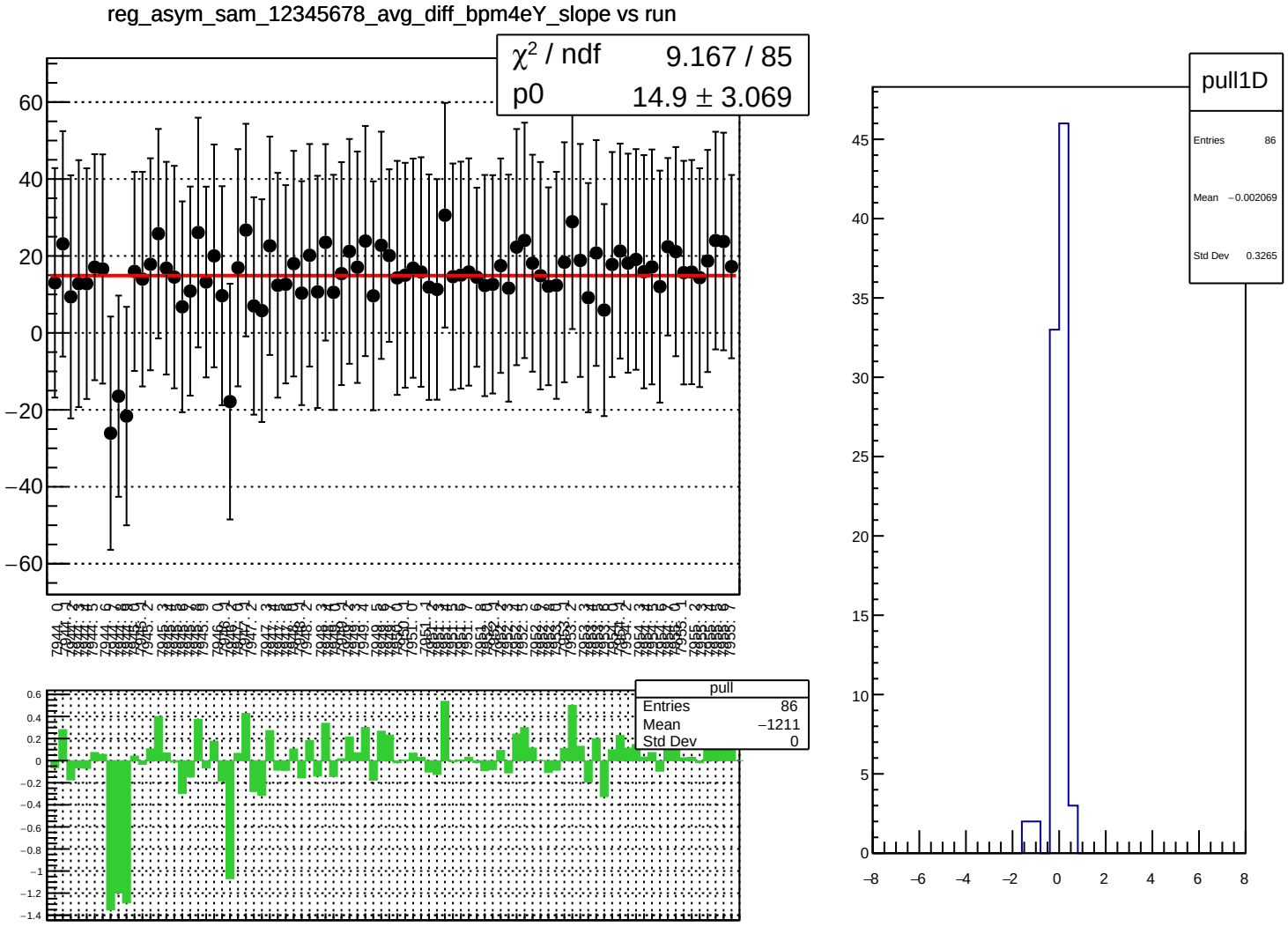

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 14.4 / 85
p0 −46.73 ± 2.587
pull
Entries 86
Mean −3607
Std Dev 0

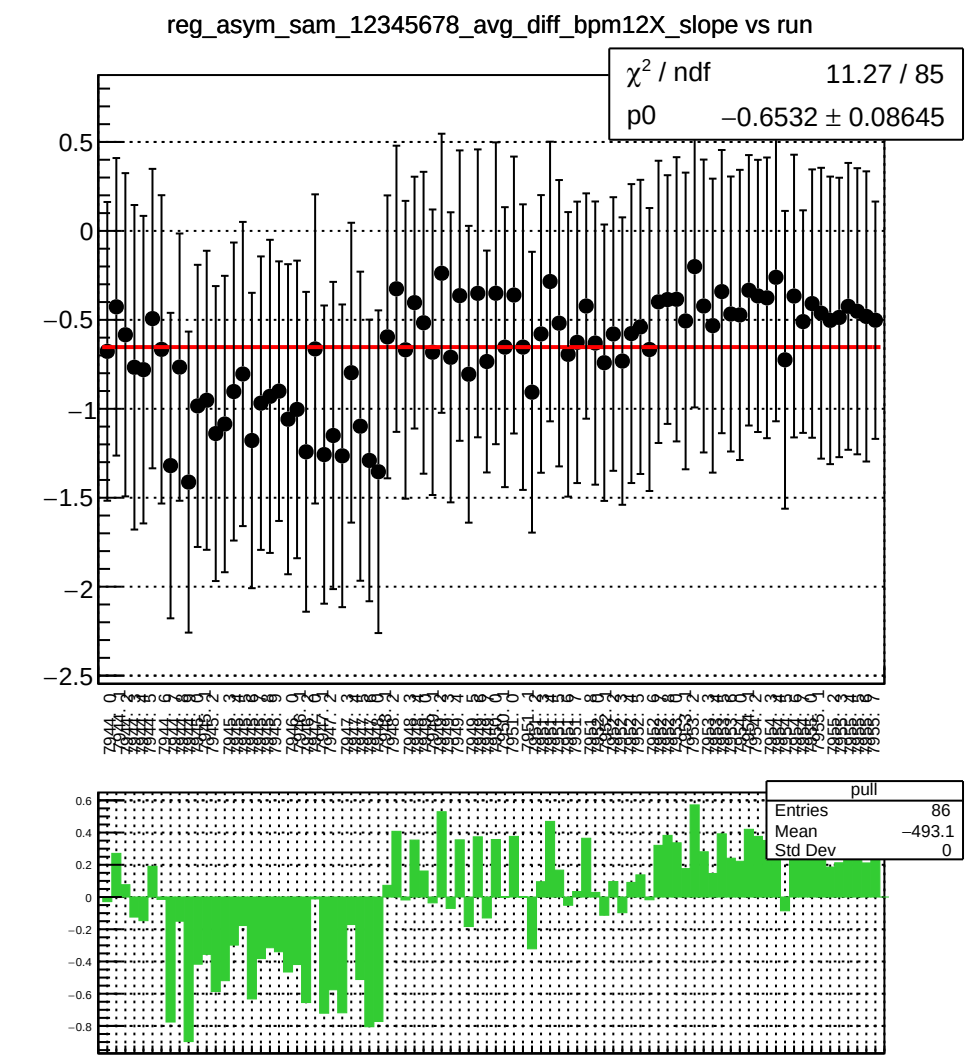

pull1D
Entries 86
Mean −0.001409
Std Dev 0.4092

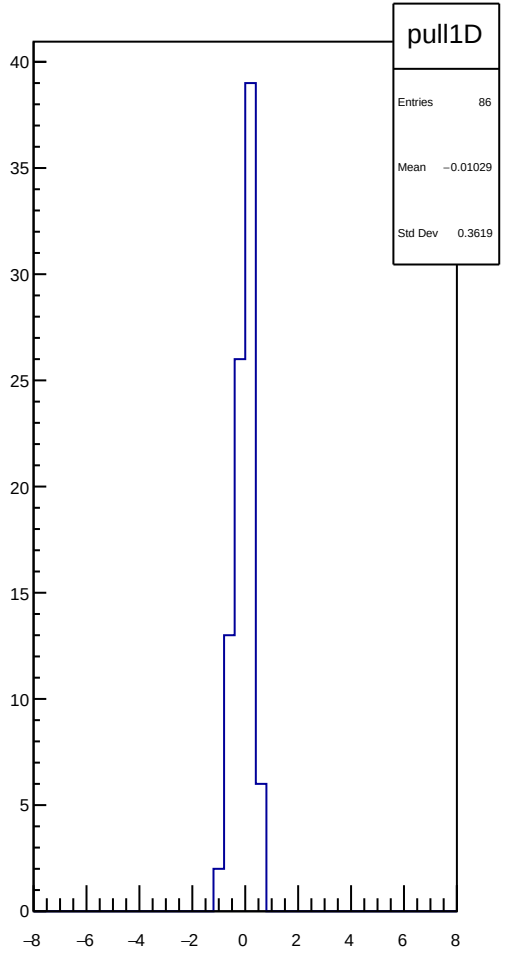

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.762 / 85
p0 19.31 ± 2.67
pull
Entries 86
Mean −641.2
Std Dev 0

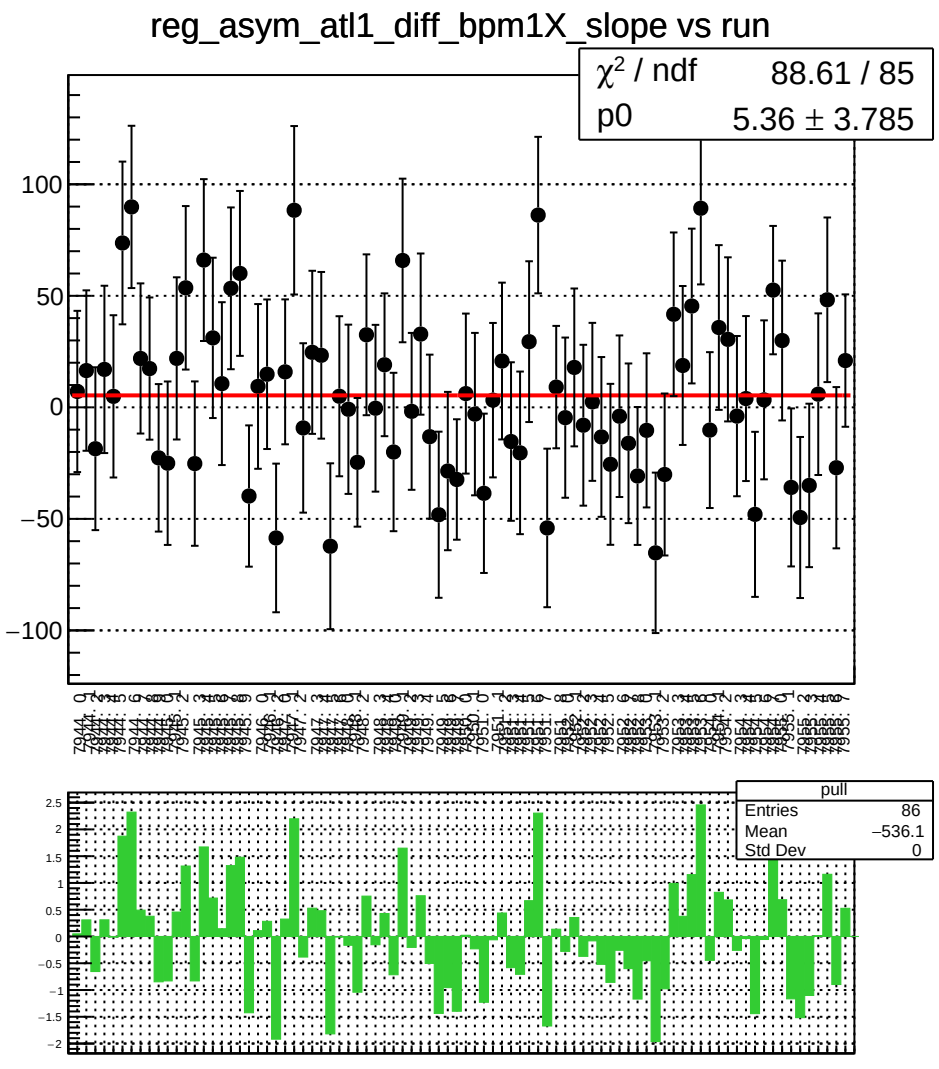

pull1D
Entries 86
Mean 0.003071
Std Dev 0.3369

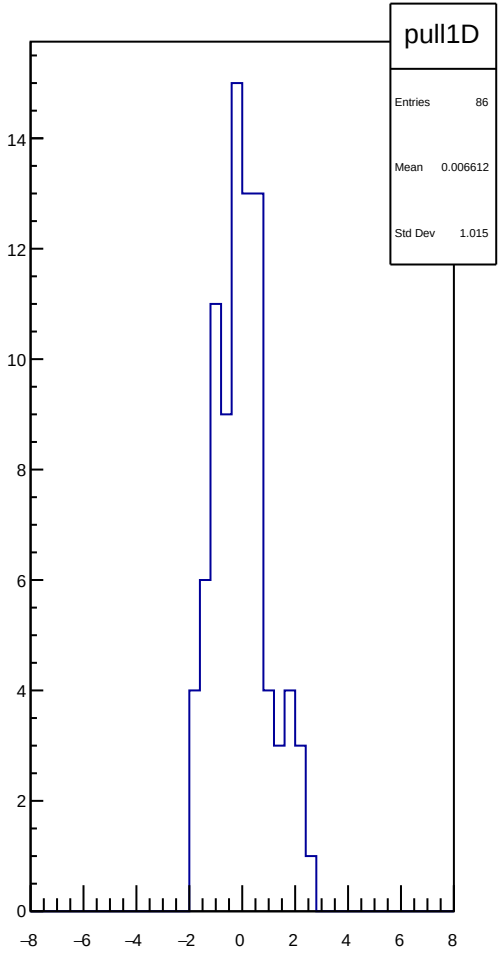

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.97 / 85
p0 −25.84 ± 2.297
pull
Entries 86
Mean 2449
Std Dev 0
pull1D
Entries 86
Mean −0.001943
Std Dev 0.403

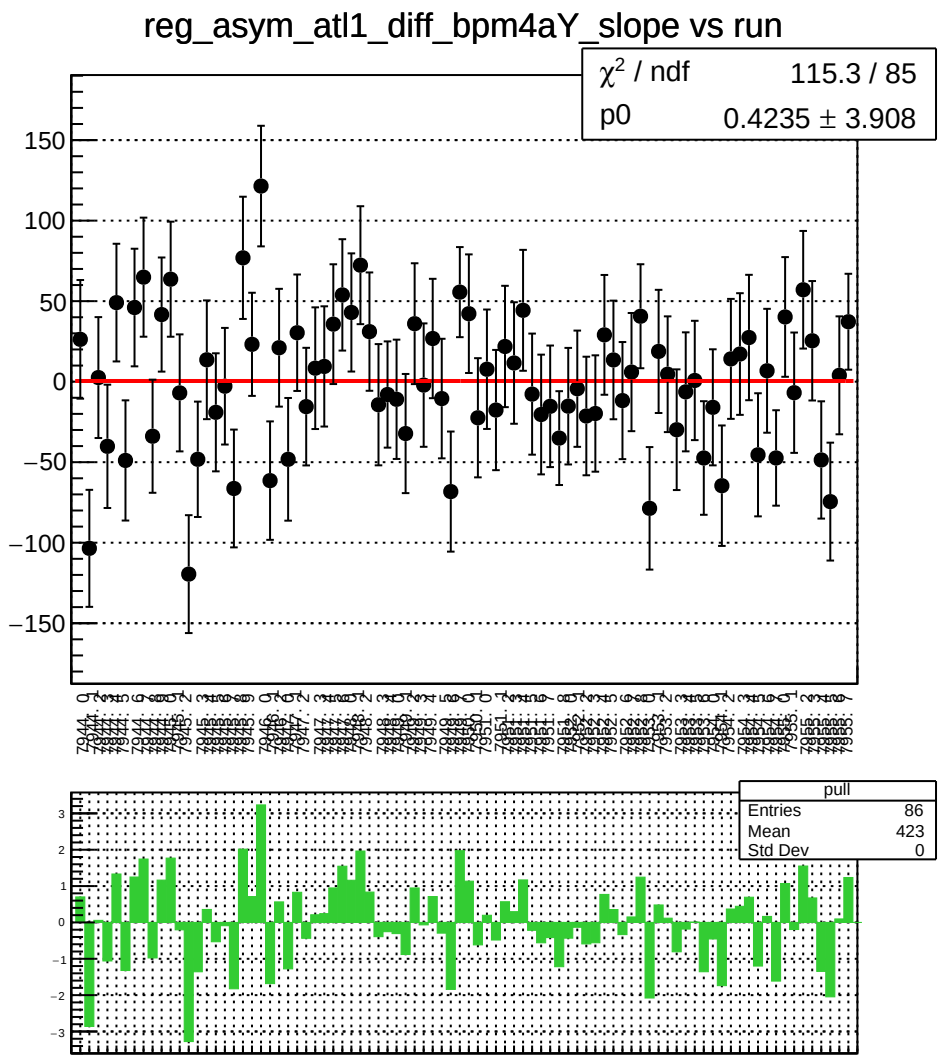

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.167 / 85
p0 14.9 ± 3.069
pull
Entries 86
Mean −1211
Std Dev 0
pull1D
Entries 86
Mean −0.002069
Std Dev 0.3265

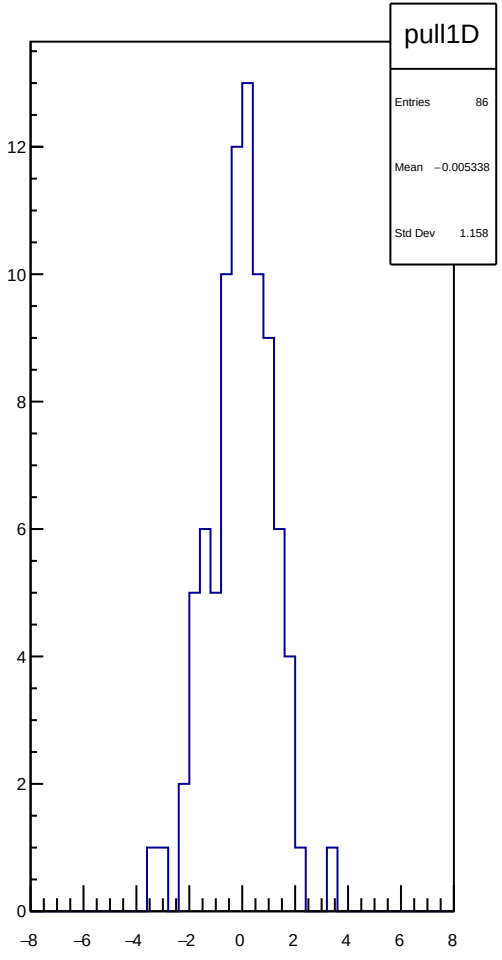

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 11.27 / 85
p0 −0.6532 ± 0.08645
pull
Entries 86
Mean −493.1
Std Dev 0

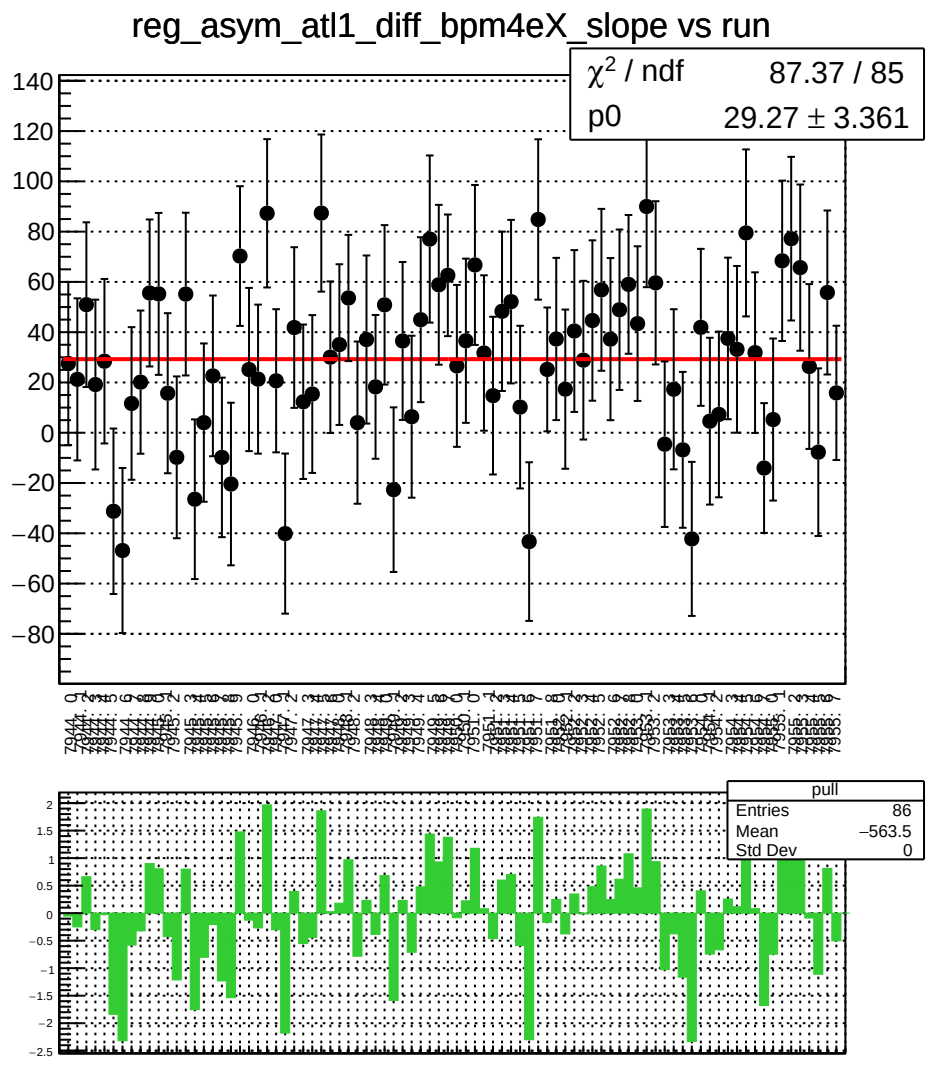

pull1D
Entries 86
Mean −0.01029
Std Dev 0.3619

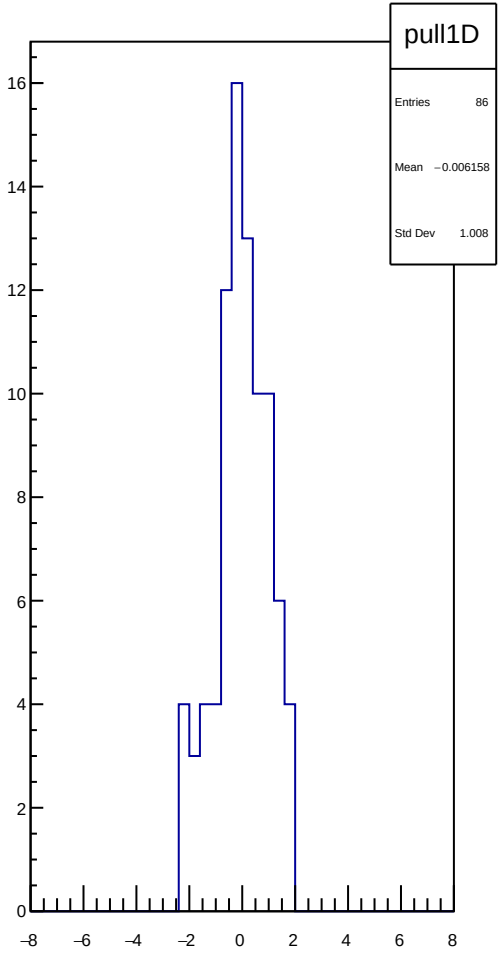

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 88.61 / 85
p0 5.36 ± 3.785
pull
Entries 86
Mean −536.1
Std Dev 0

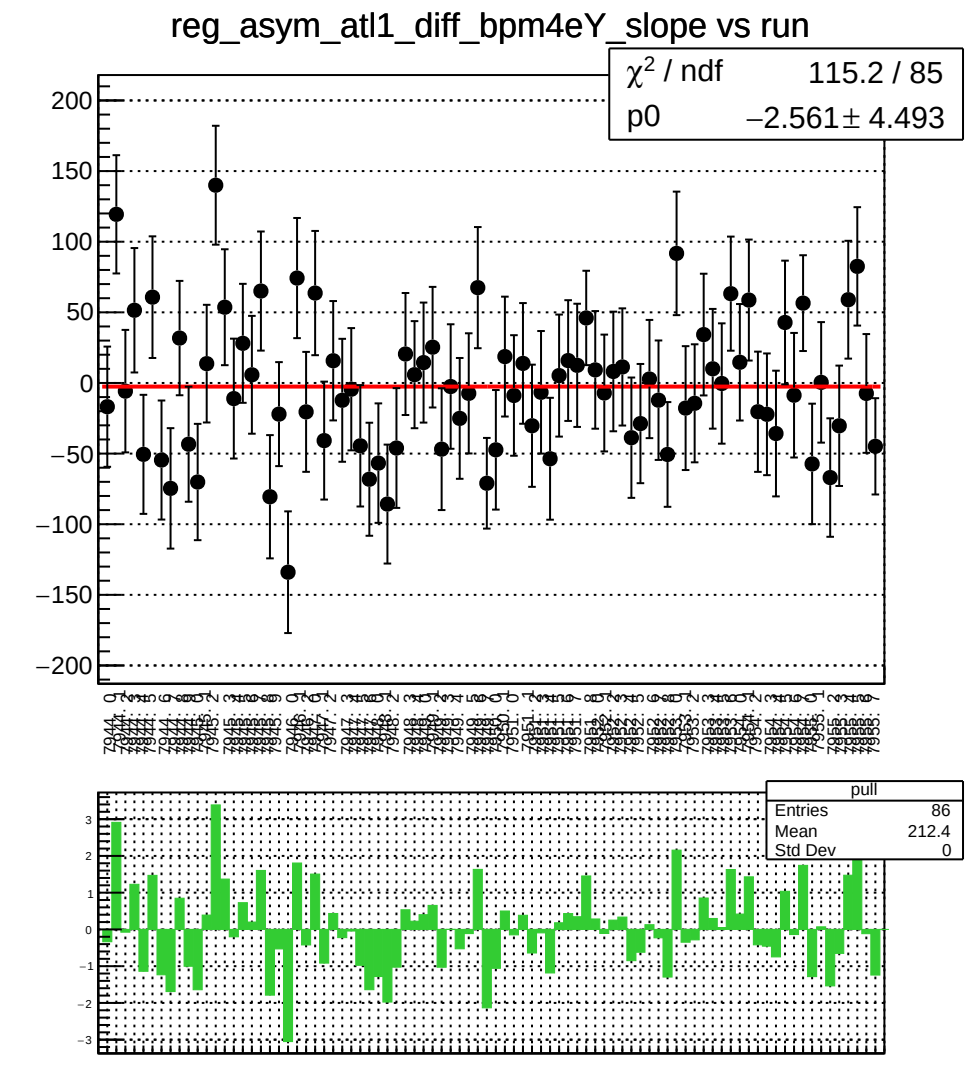

pull1D
Entries 86
Mean 0.006612
Std Dev 1.015

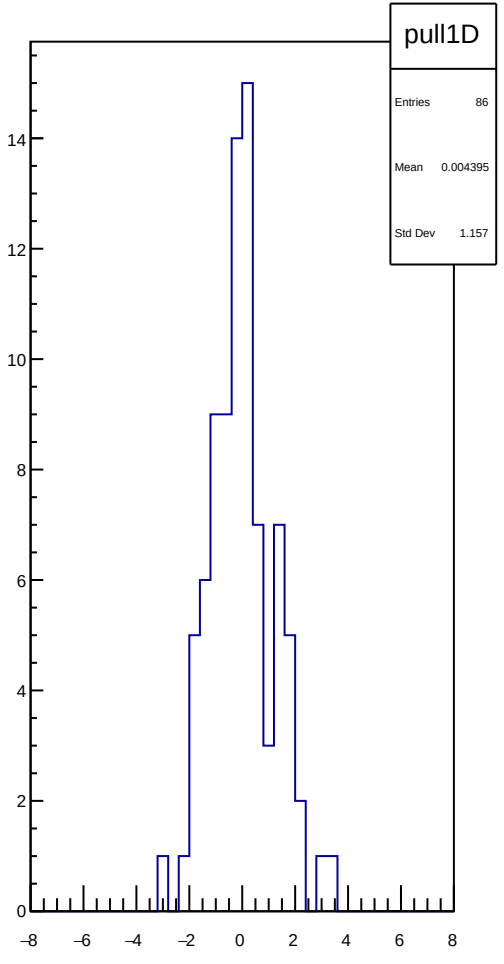

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 115.3 / 85
p0 0.4235 ± 3.908
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 423
Std Dev 0
3
2
1
0
−1
−2
−3

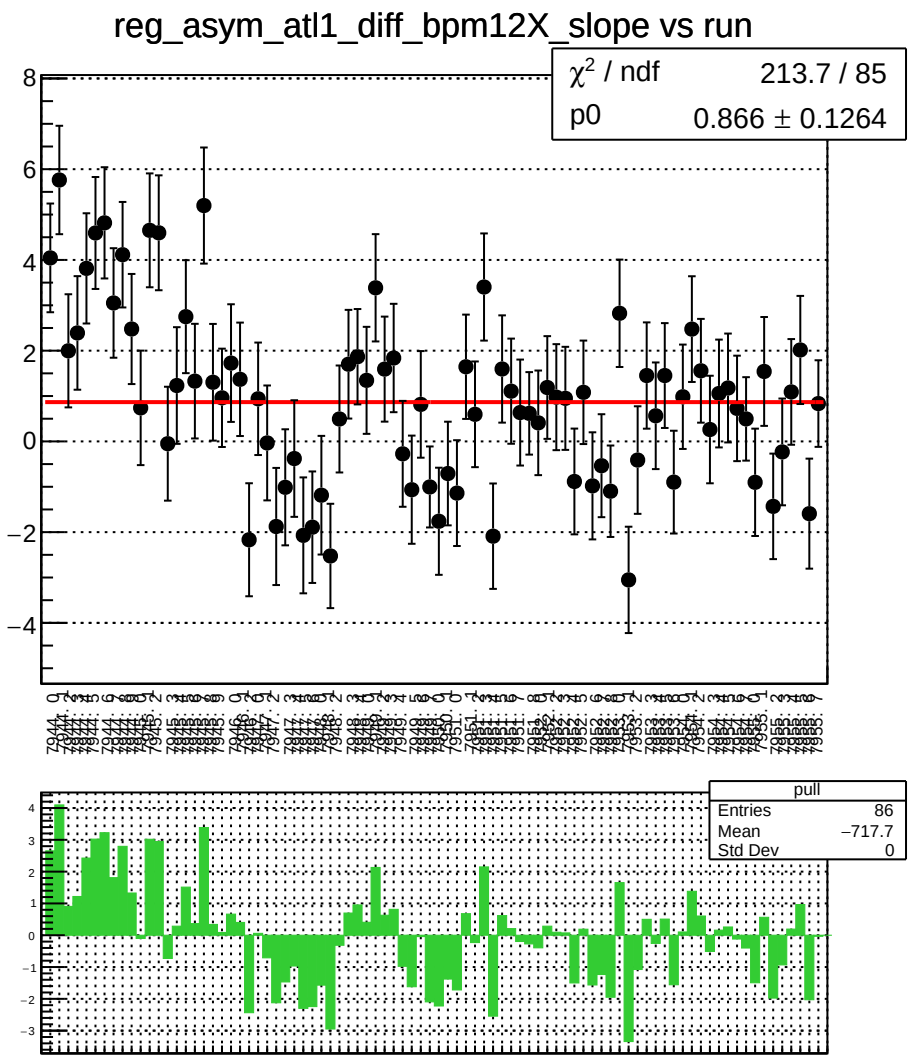

pull1D
Entries 86
Mean −0.005338
Std Dev 1.158
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

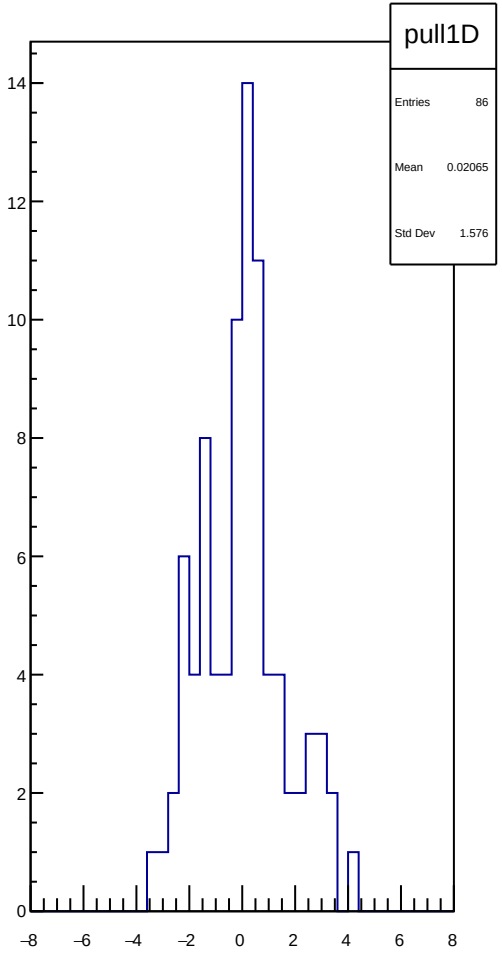

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 87.37 / 85
p0 29.27 ± 3.361
pull
Entries 86
Mean −563.5
Std Dev 0

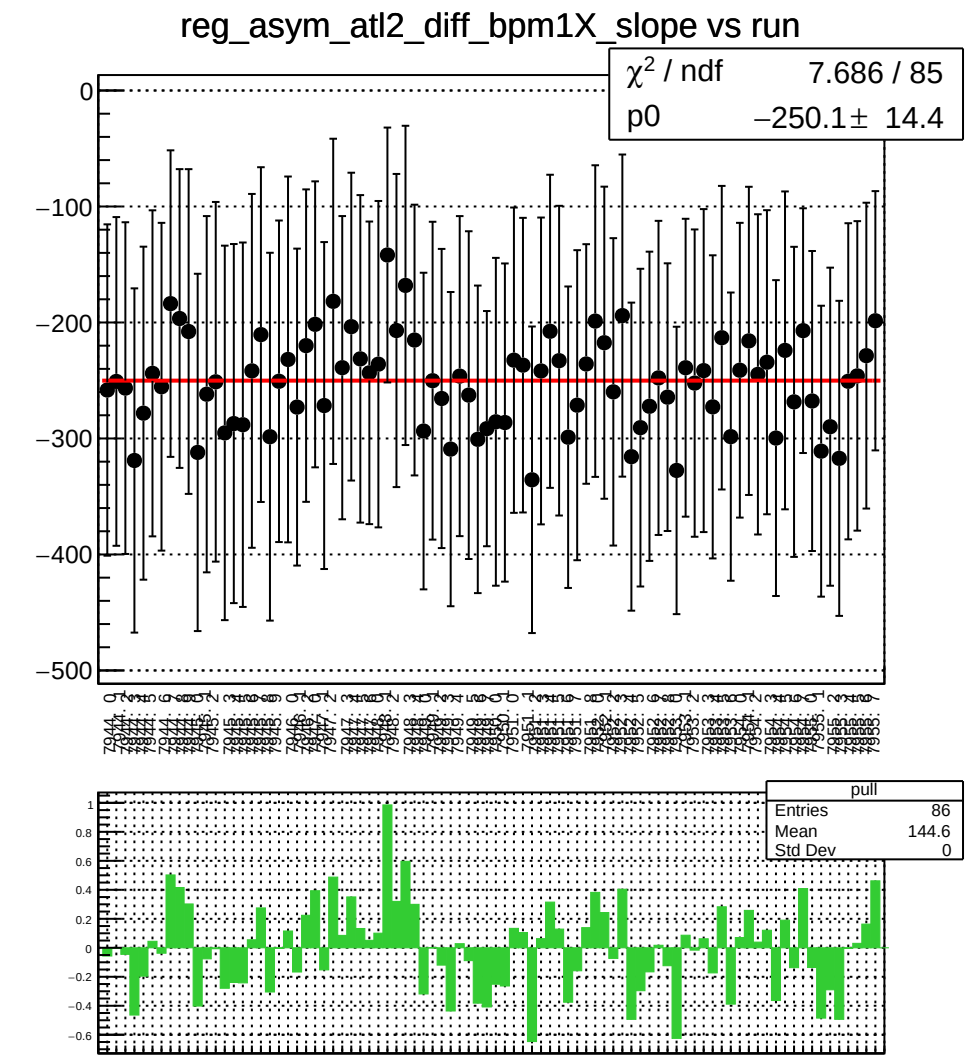

pull1D
Entries 86
Mean −0.006158
Std Dev 1.008

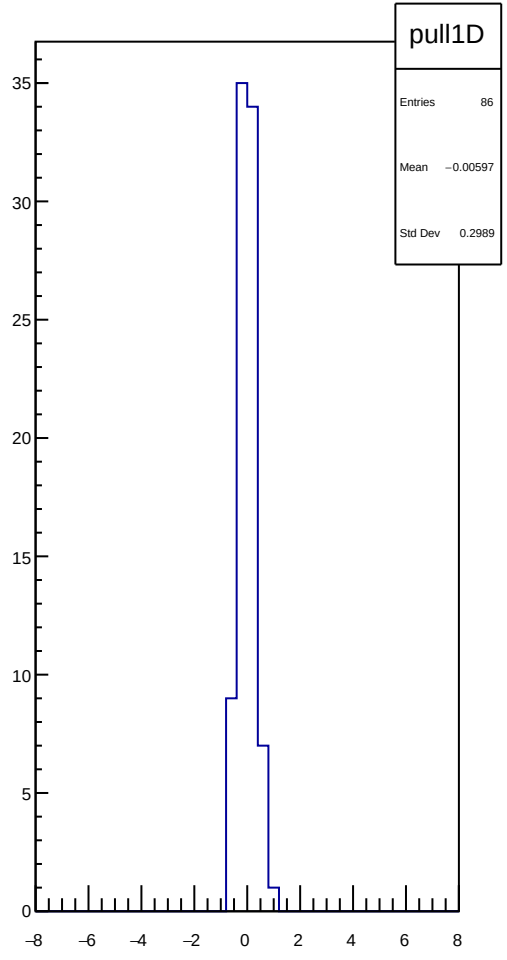

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 115.2 / 85
p0 −2.561 ± 4.493
pull
Entries 86
Mean 212.4
Std Dev 0

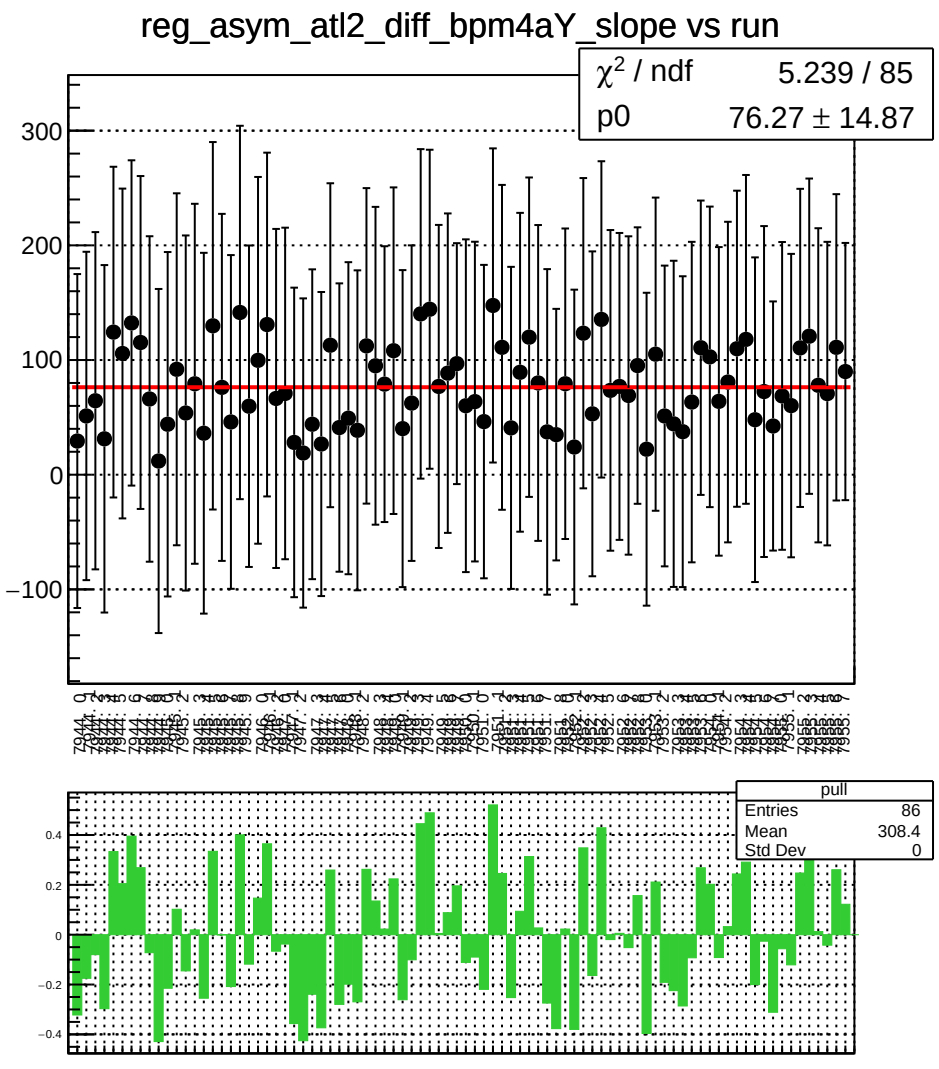

pull1D
Entries 86
Mean 0.004395
Std Dev 1.157

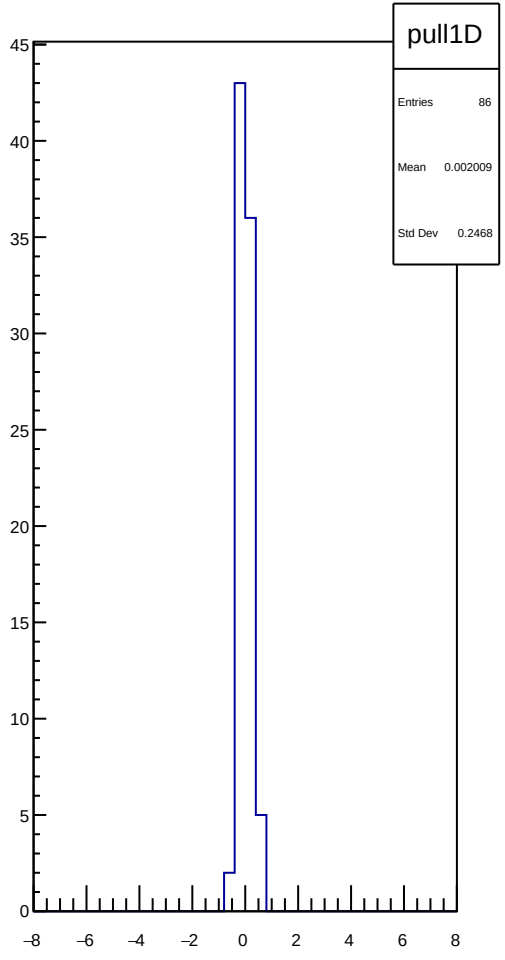

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 213.7 / 85
p0 0.866 ± 0.1264
pull
Entries 86
Mean −717.7
Std Dev 0

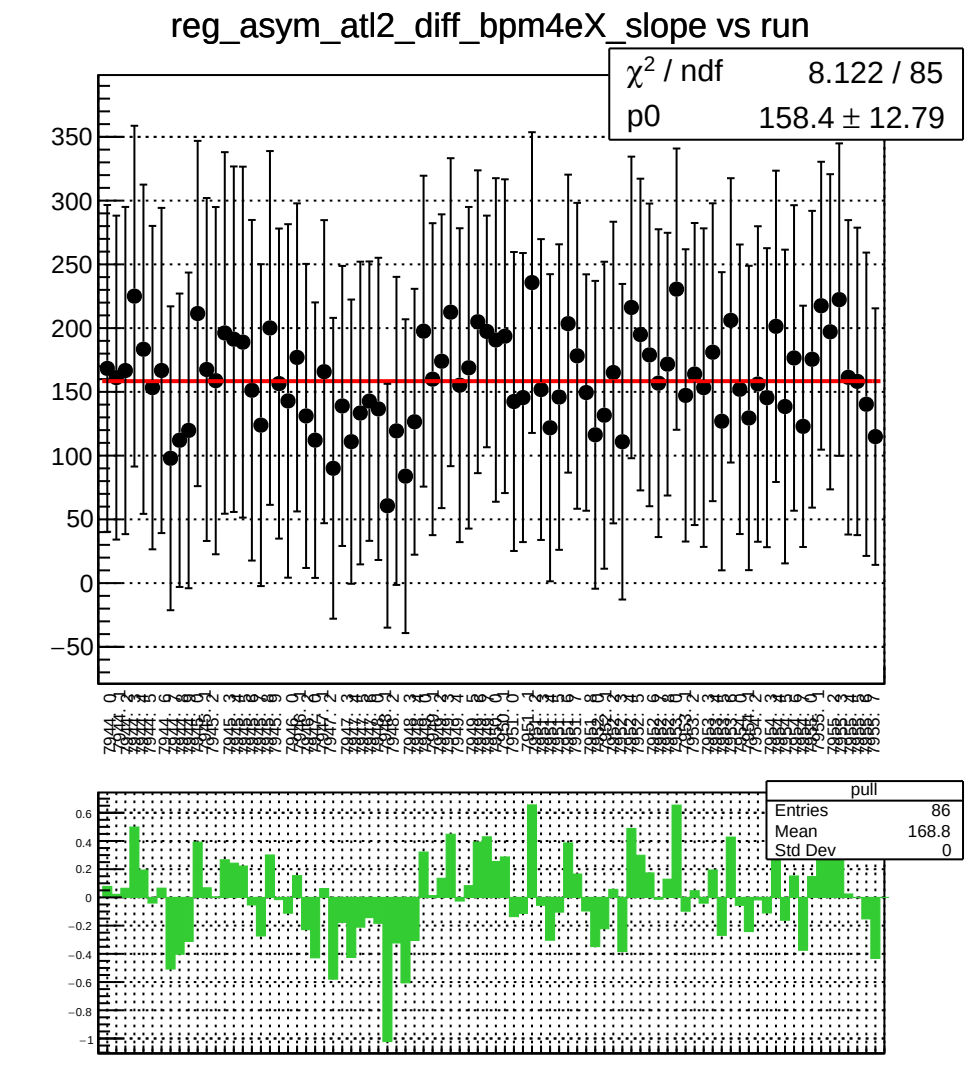

pull1D
Entries 86
Mean 0.02065
Std Dev 1.576

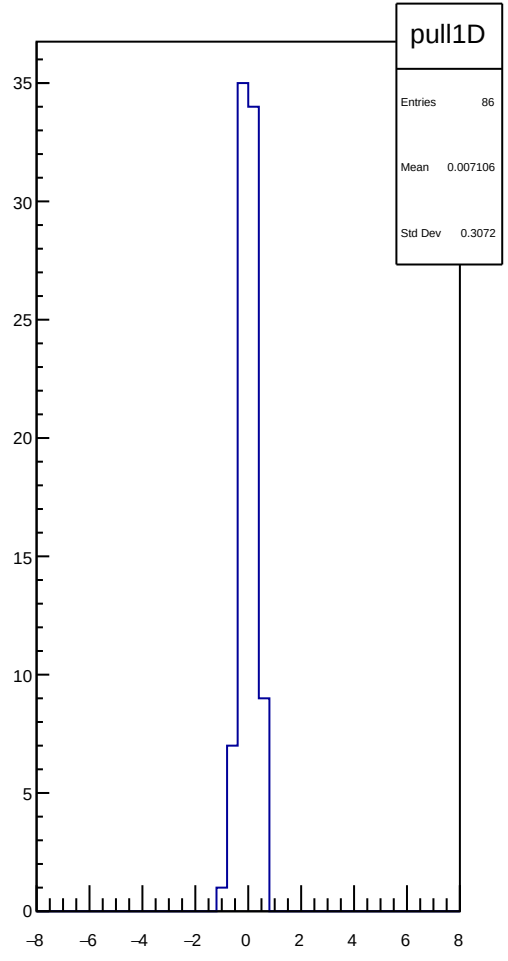

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 7.686 / 85
p0 −250.1± 14.4
pull
Entries 86
Mean 144.6
Std Dev 0

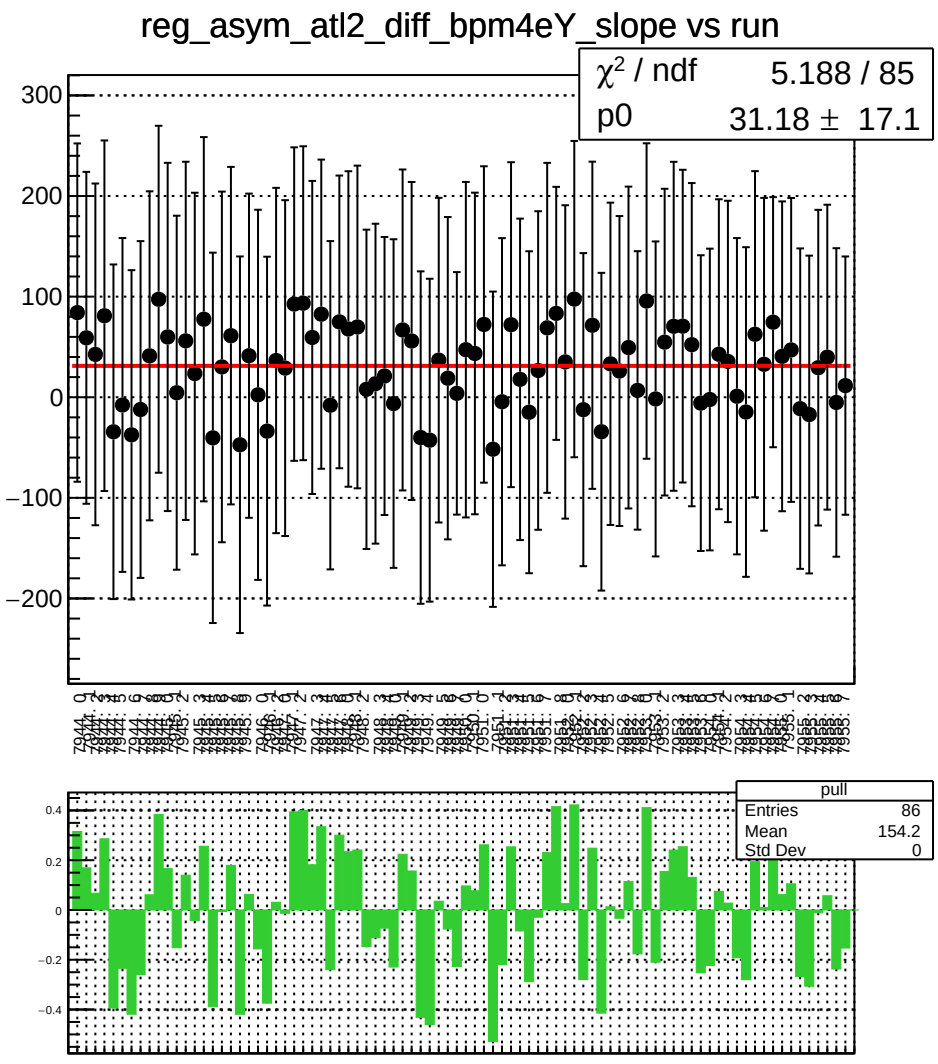

pull1D
Entries 86
Mean −0.00597
Std Dev 0.2989

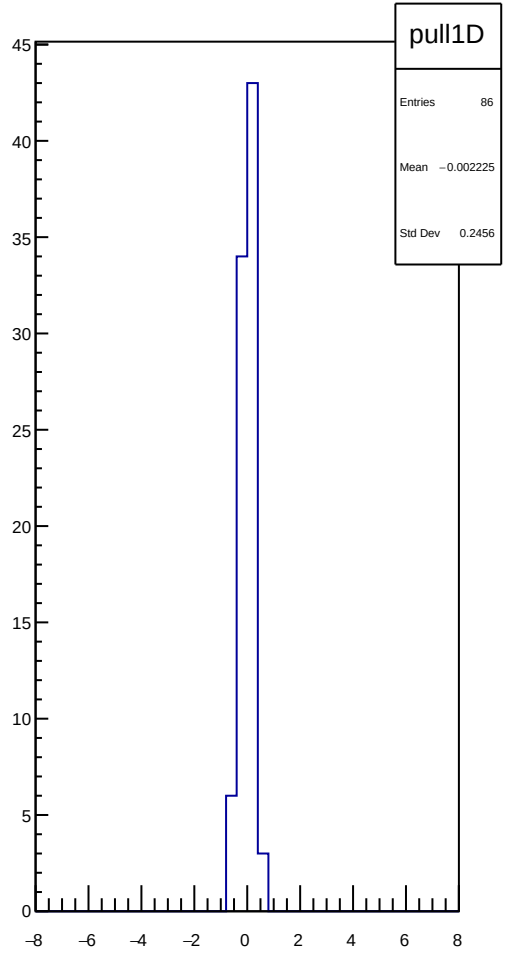

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.239 / 85
p0 76.27 ± 14.87
300
200
100
0
−100
pull
Entries 86
Mean 308.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4

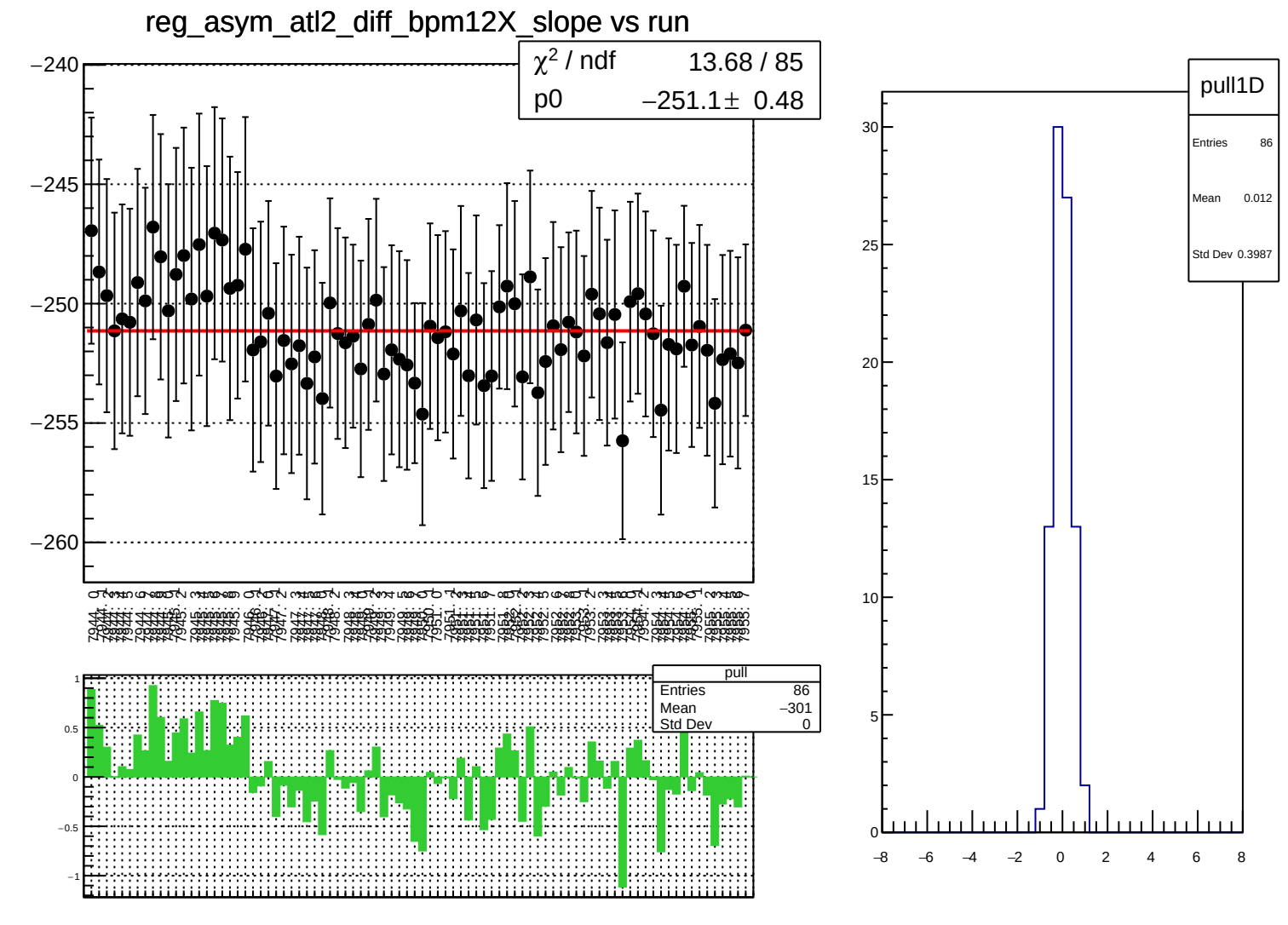

pull1D
Entries 86
Mean 0.002009
Std Dev 0.2468
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

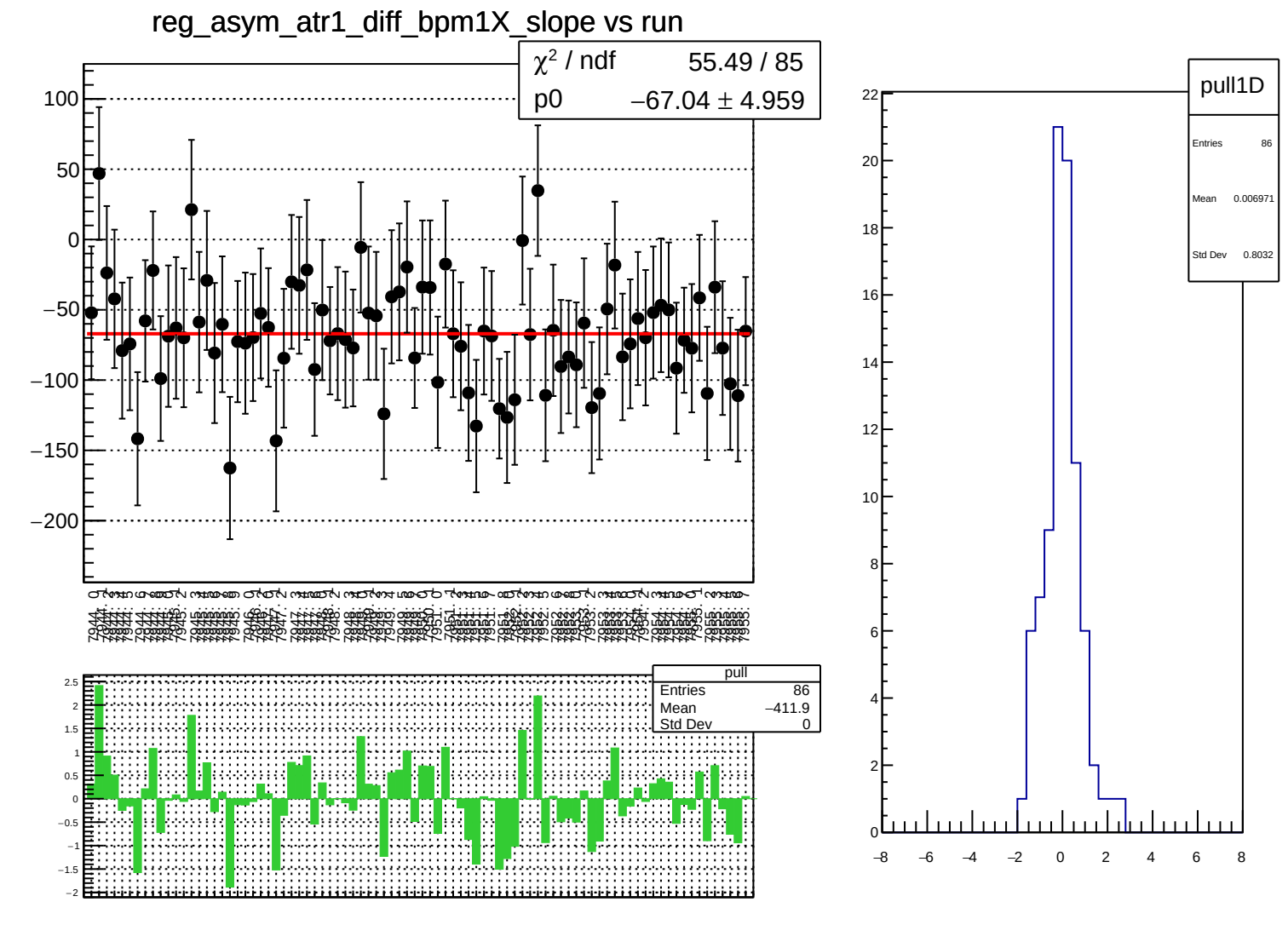

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 8.122 / 85
p0 158.4 ± 12.79
pull
Entries 86
Mean 168.8
Std Dev 0

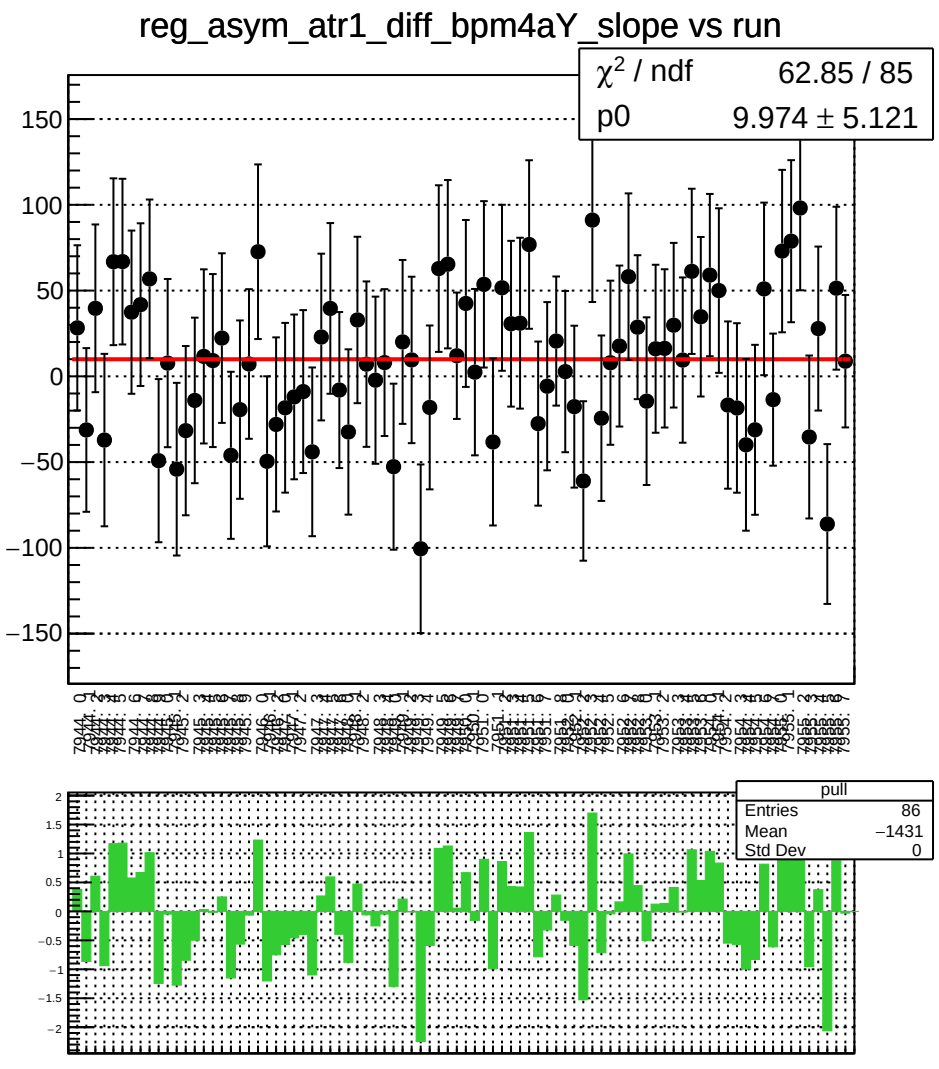

pull1D
Entries 86
Mean 0.007106
Std Dev 0.3072

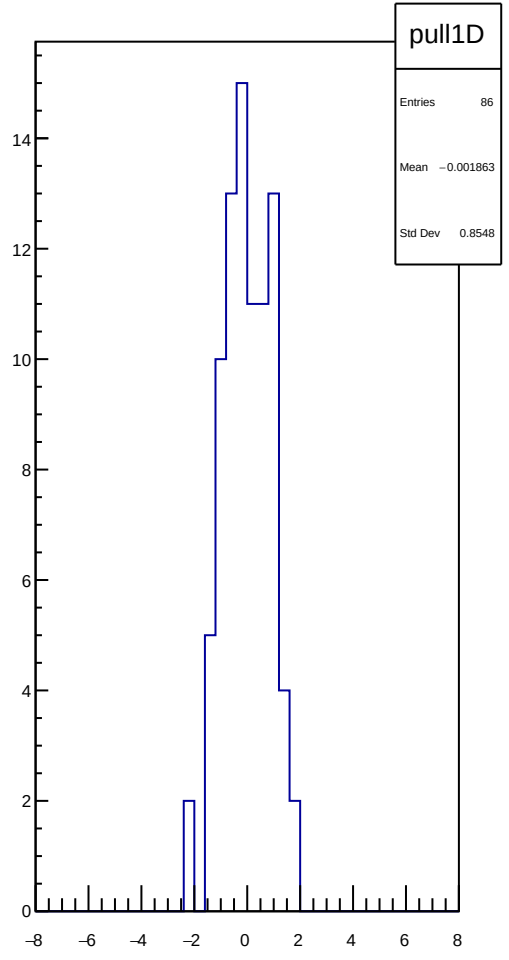

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.188 / 85
p0 31.18 ± 17.1
300
200
100
0
−100
−200
pull
Entries 86
Mean 154.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4

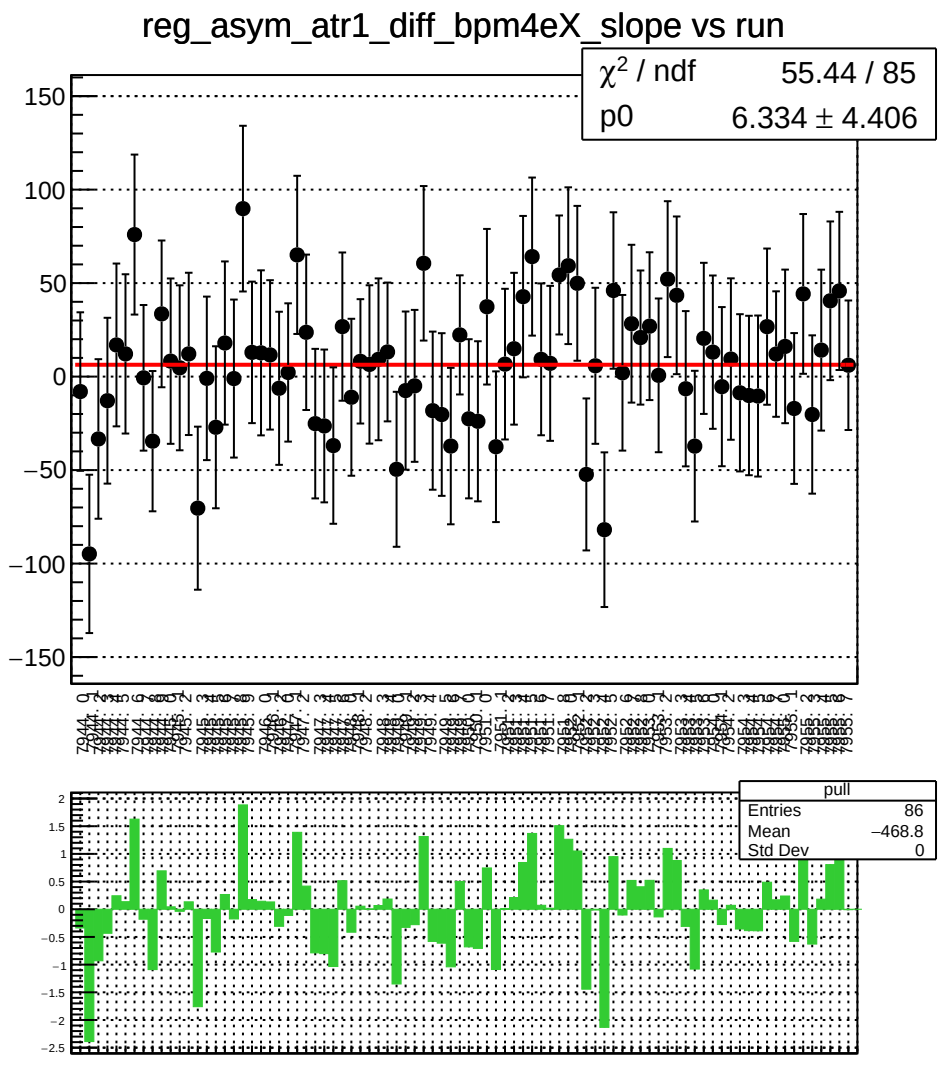

pull1D
Entries 86
Mean −0.002225
Std Dev 0.2456
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

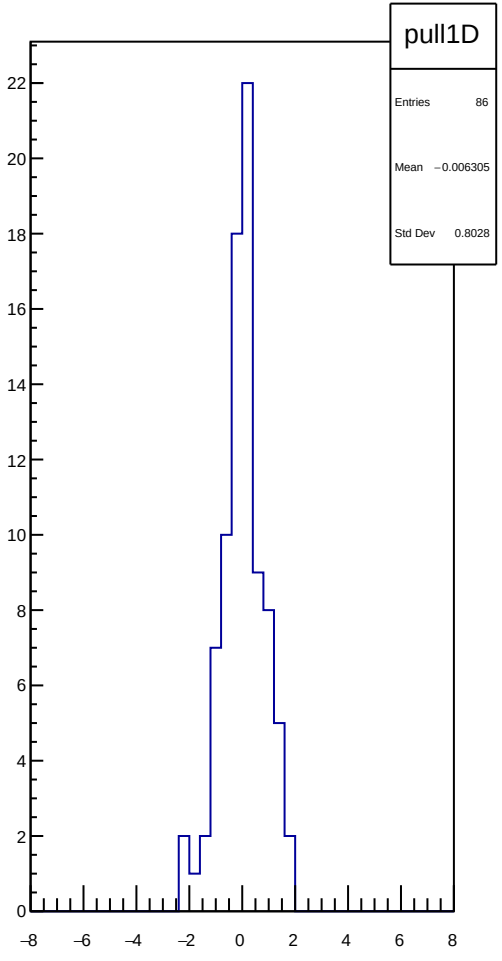

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 13.68 / 85
p0 −251.1± 0.48
−240
−245
−250
−255
−260
pull
Entries 86
Mean −301
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean 0.012
Std Dev 0.3987
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

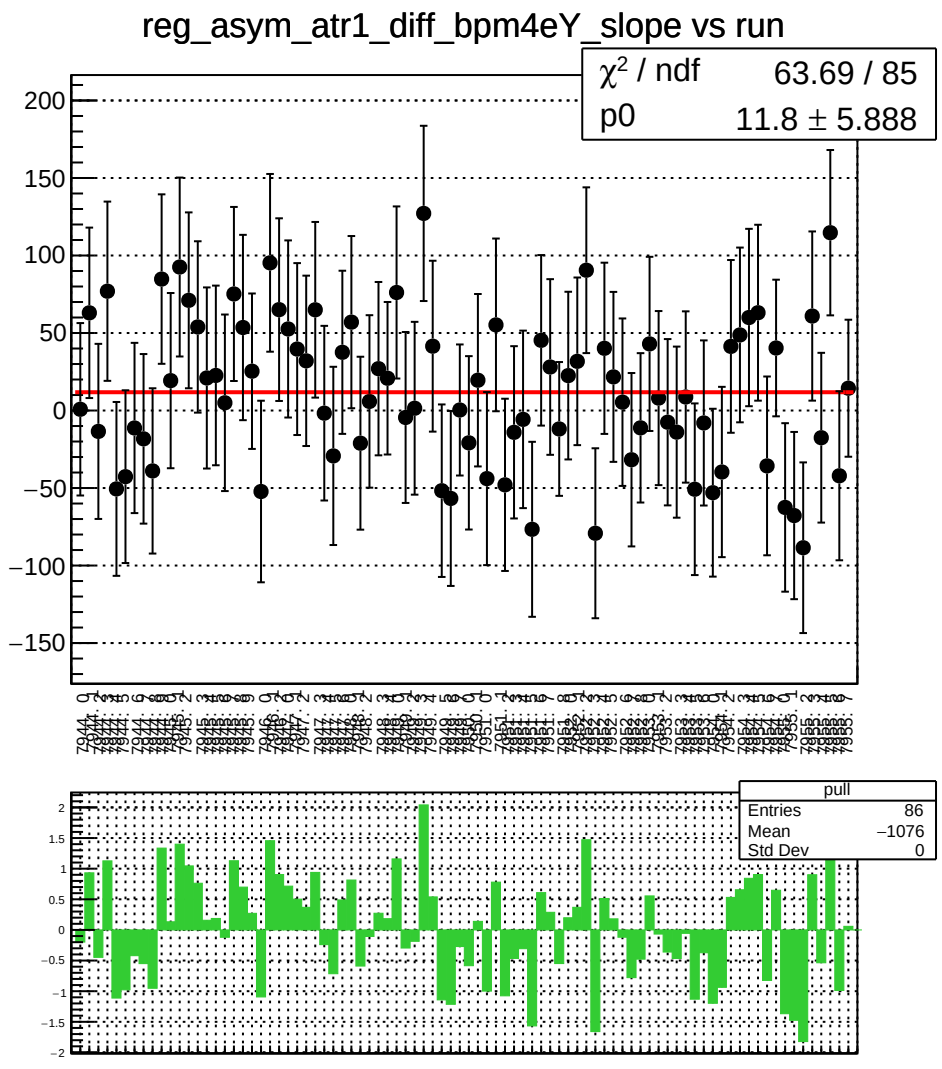

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 55.49 / 85
p0 −67.04 ± 4.959
pull
Entries 86
Mean −411.9
Std Dev 0
pull1D
Entries 86
Mean 0.006971
Std Dev 0.8032

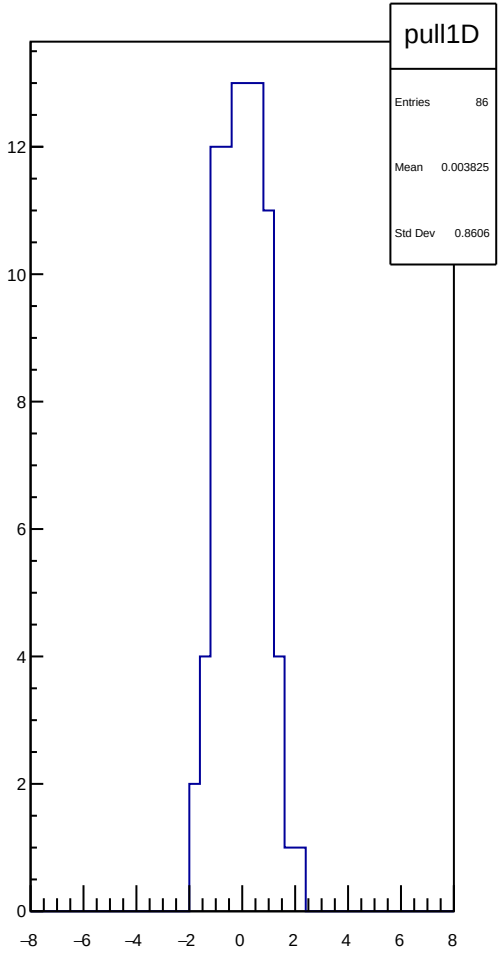

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 62.85 / 85
p0 9.974 ± 5.121
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −1431
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

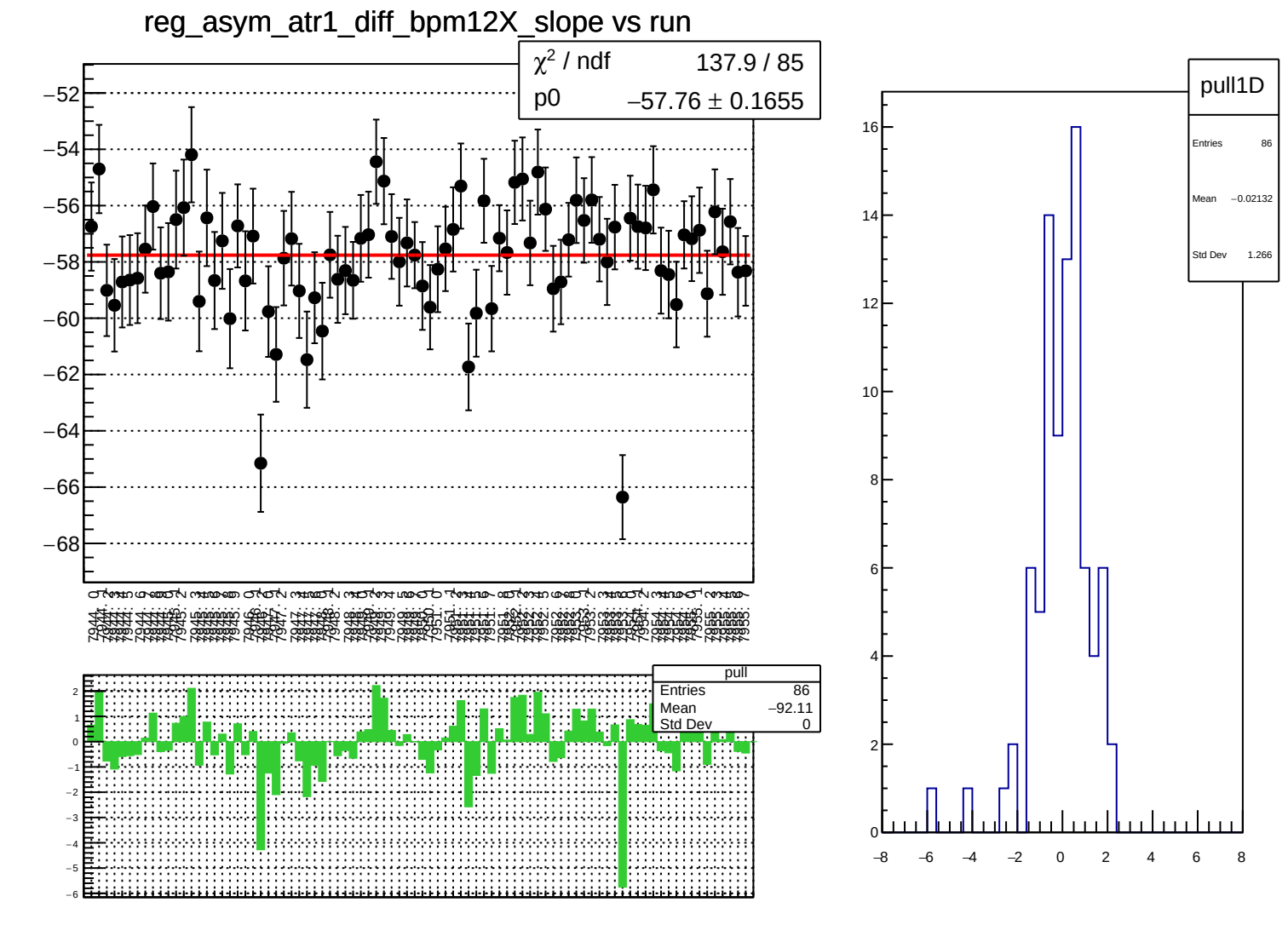

pull1D
Entries 86
Mean −0.001863
Std Dev 0.8548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

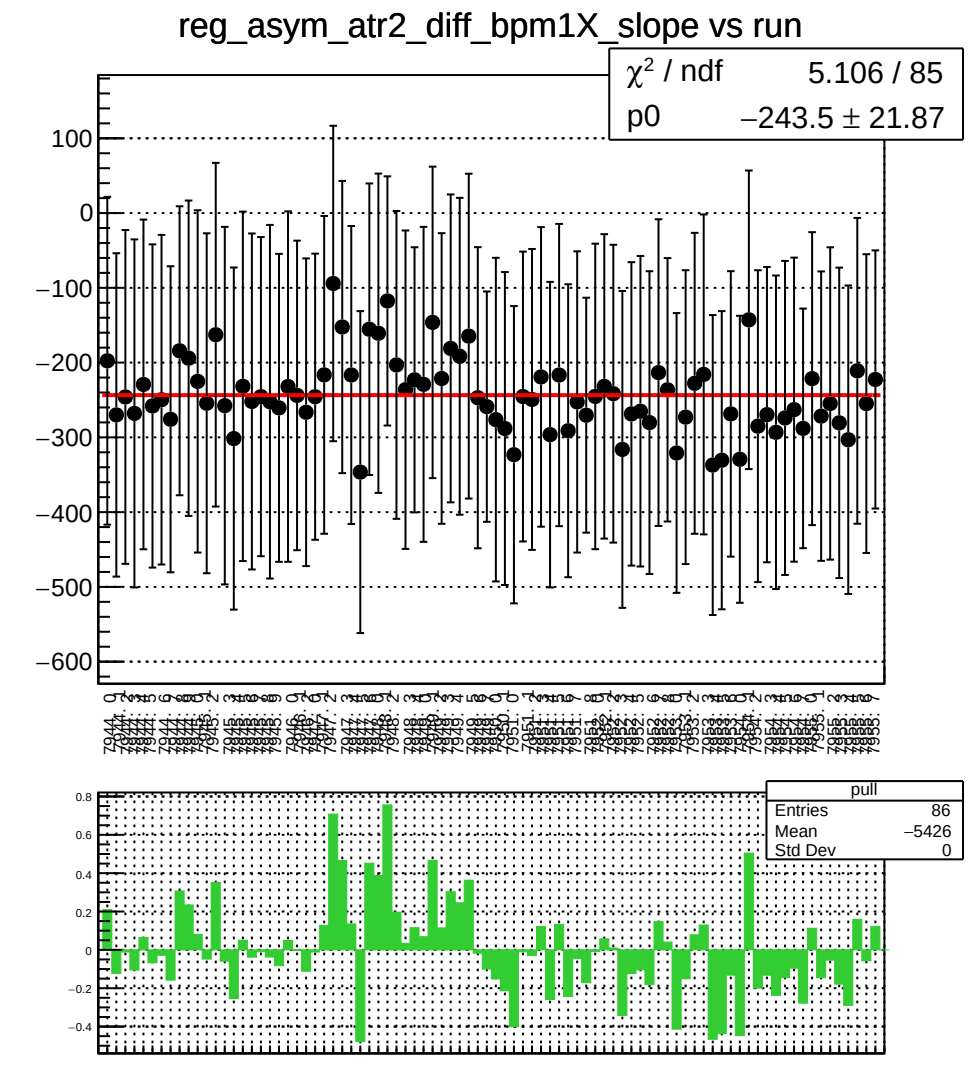

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 55.44 / 85
p0 6.334 ± 4.406
pull
Entries 86
Mean −468.8
Std Dev 0

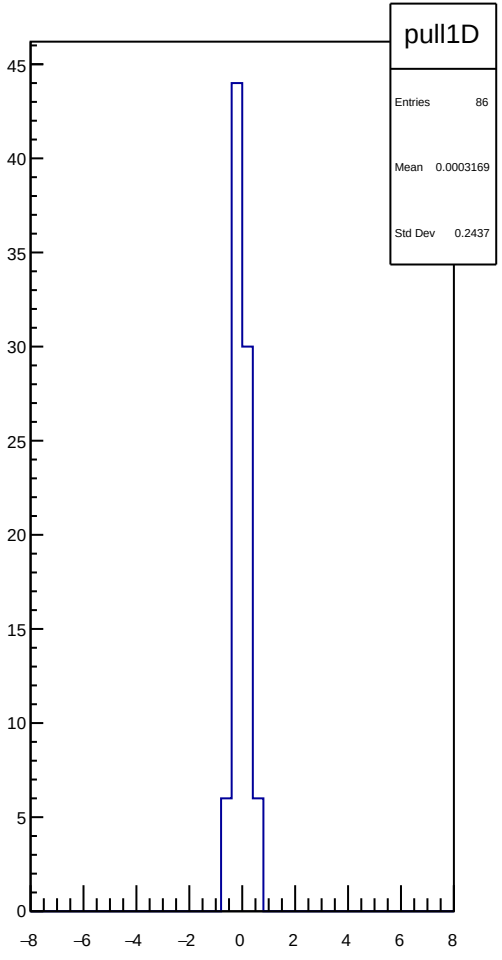

pull1D
Entries 86
Mean −0.006305
Std Dev 0.8028

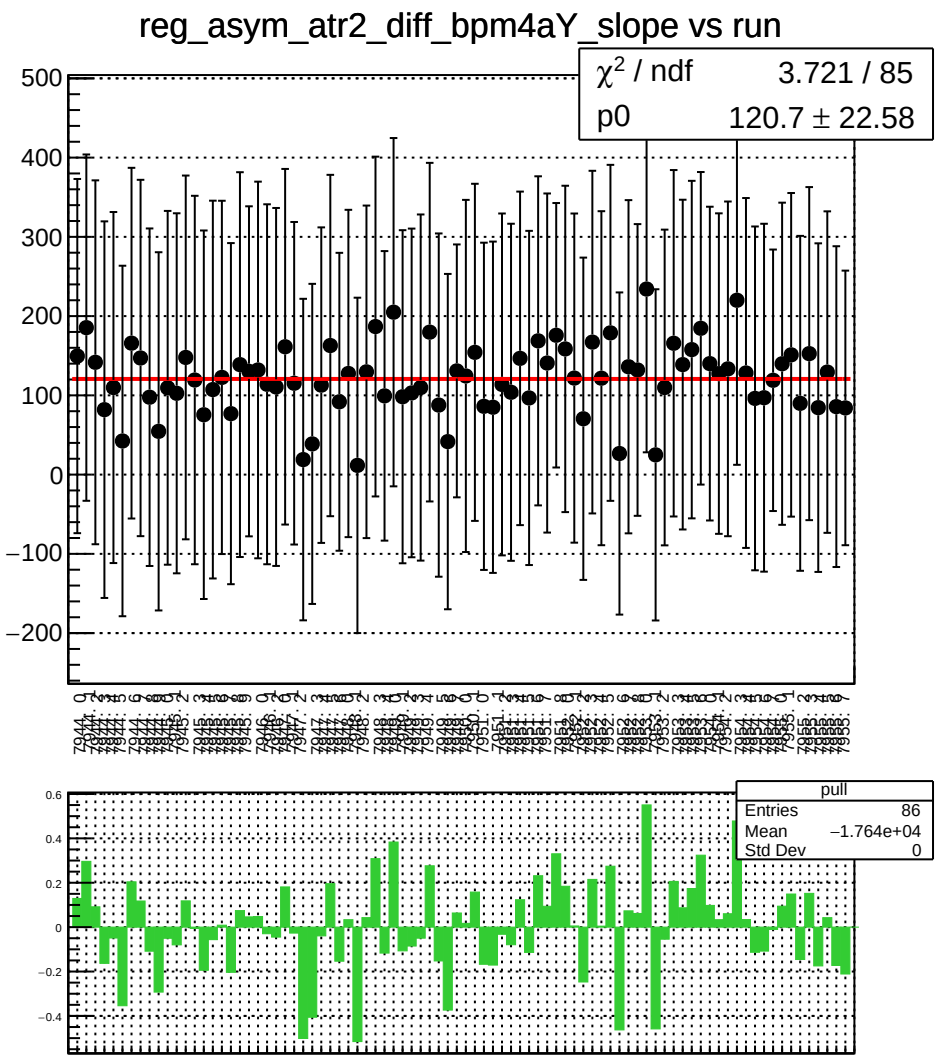

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 63.69 / 85
p0 11.8 ± 5.888
pull
Entries 86
Mean −1076
Std Dev 0

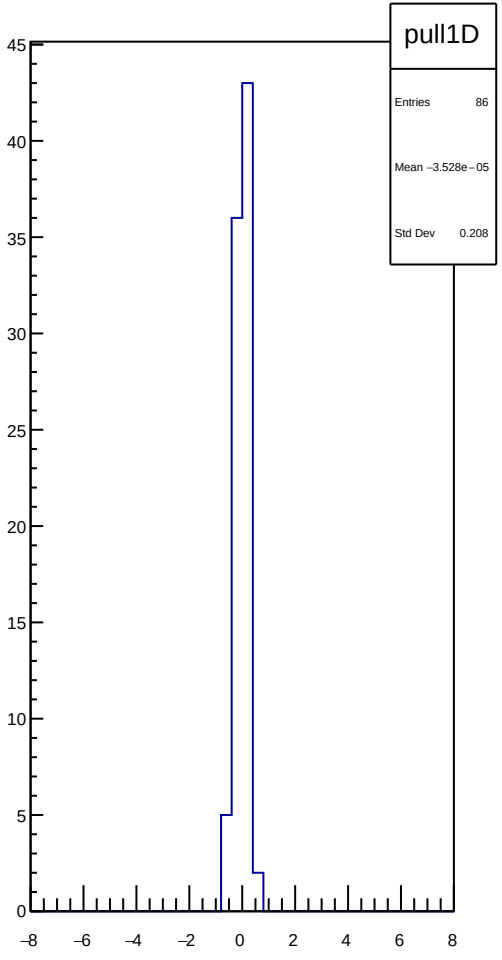

pull1D
Entries 86
Mean 0.003825
Std Dev 0.8606

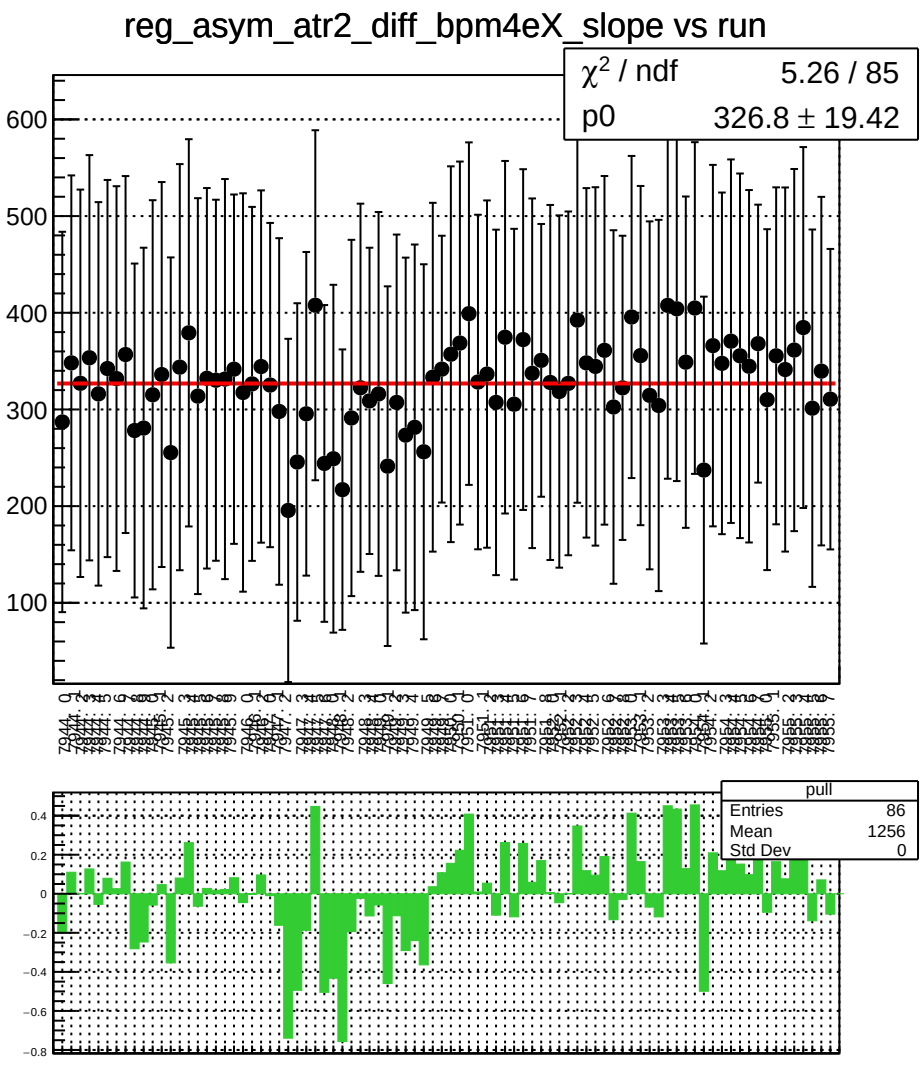

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 137.9 / 85
p0 −57.76 ± 0.1655
pull
Entries 86
Mean −92.11
Std Dev 0
pull1D
Entries 86
Mean −0.02132
Std Dev 1.266

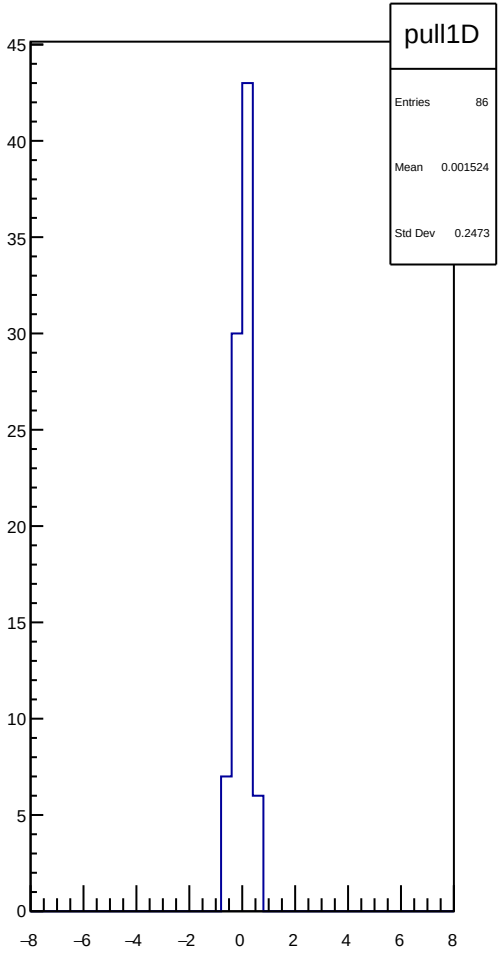

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 5.106 / 85
p0 −243.5 ± 21.87
pull
Entries 86
Mean −5426
Std Dev 0

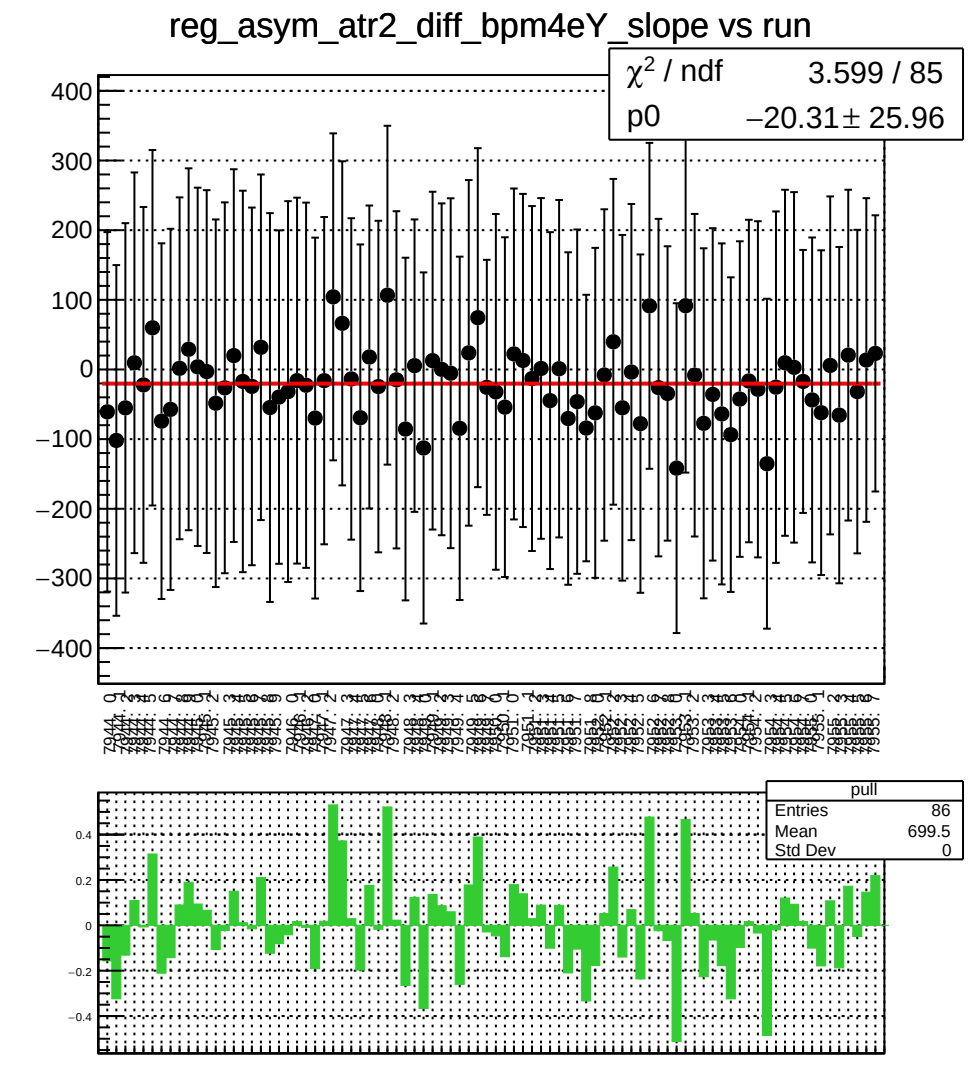

pull1D
Entries 86
Mean 0.0003169
Std Dev 0.2437

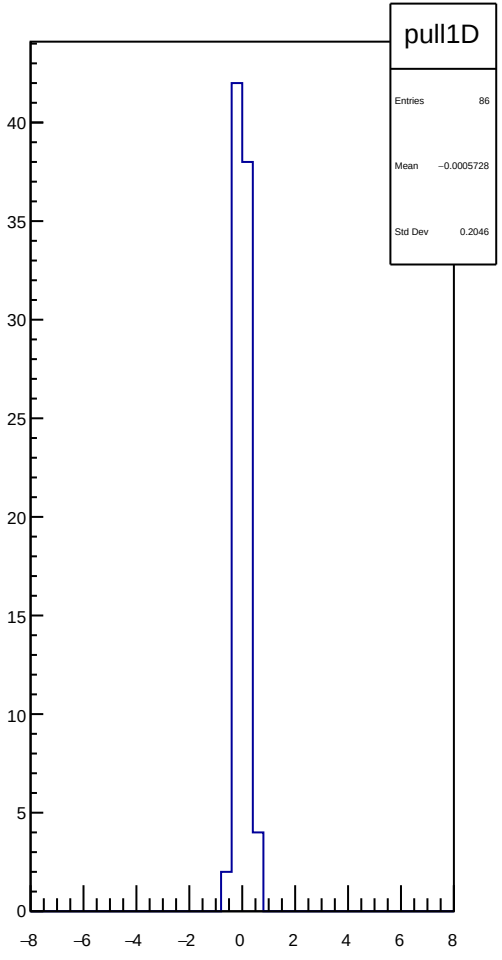

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.721 / 85
p0 120.7 ± 22.58
pull
Entries 86
Mean −1.764e+04
Std Dev 0

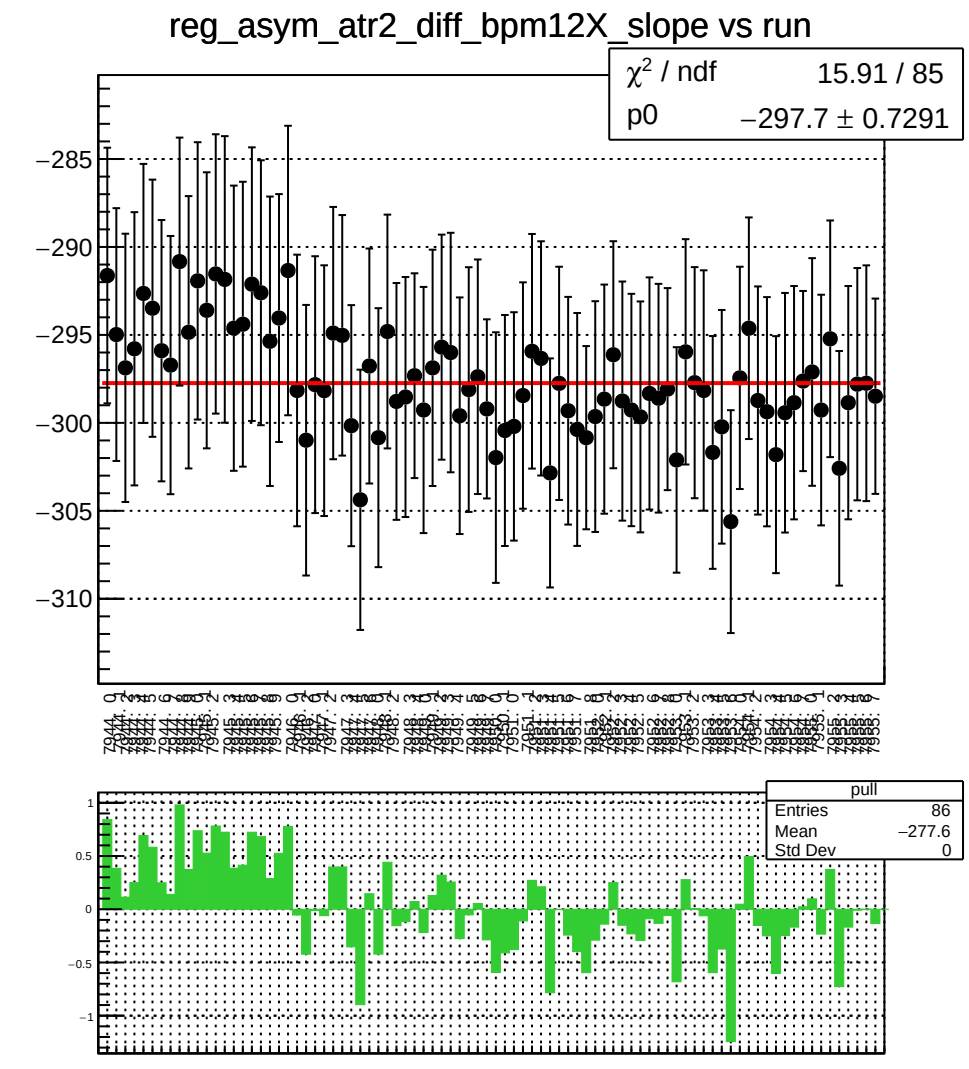

pull1D
Entries 86
Mean −3.528e−05
Std Dev 0.208

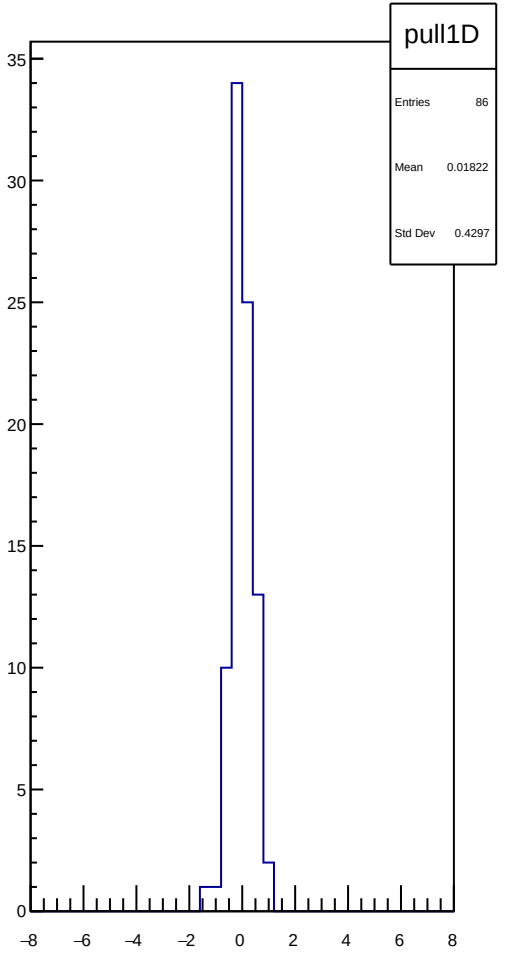

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 5.26 / 85
p0 326.8 ± 19.42
pull
Entries 86
Mean 1256
Std Dev 0

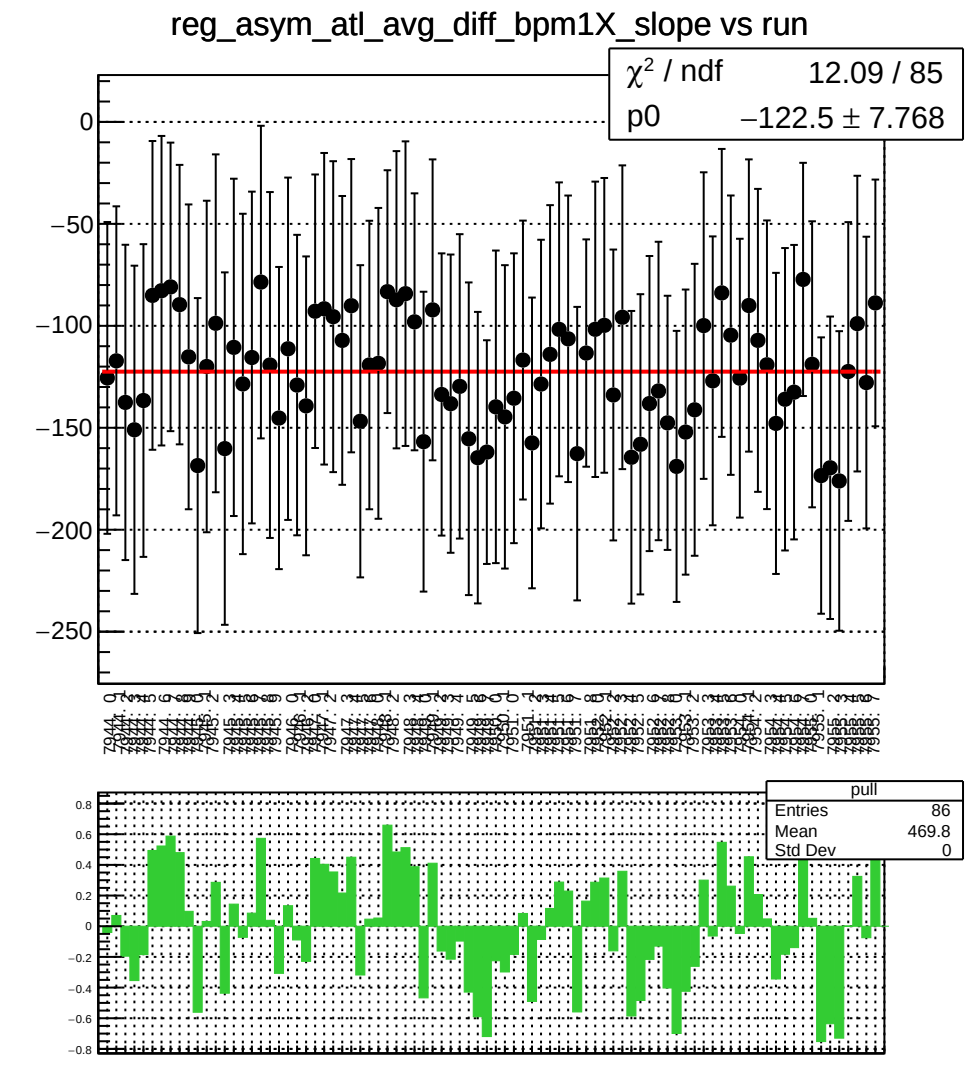

pull1D
Entries 86
Mean 0.001524
Std Dev 0.2473

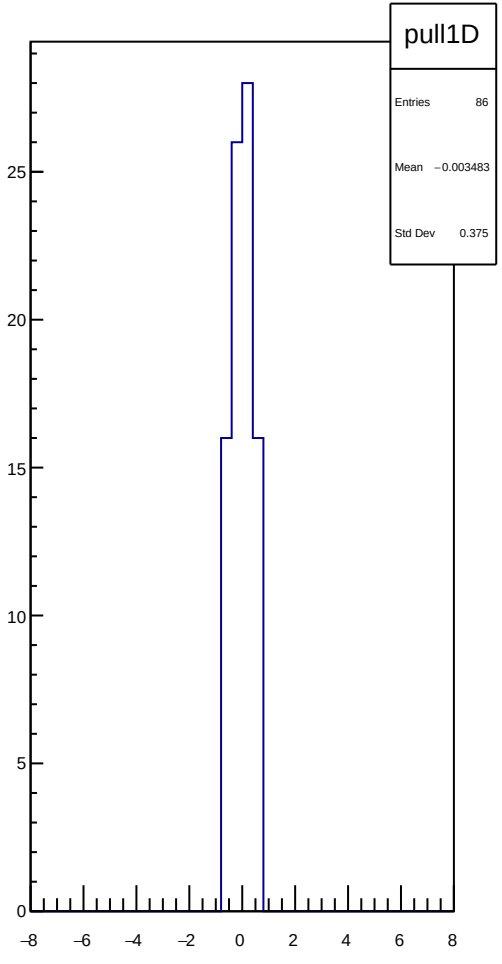

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.599 / 85
p0 −20.31 ± 25.96
pull
Entries 86
Mean 699.5
Std Dev 0

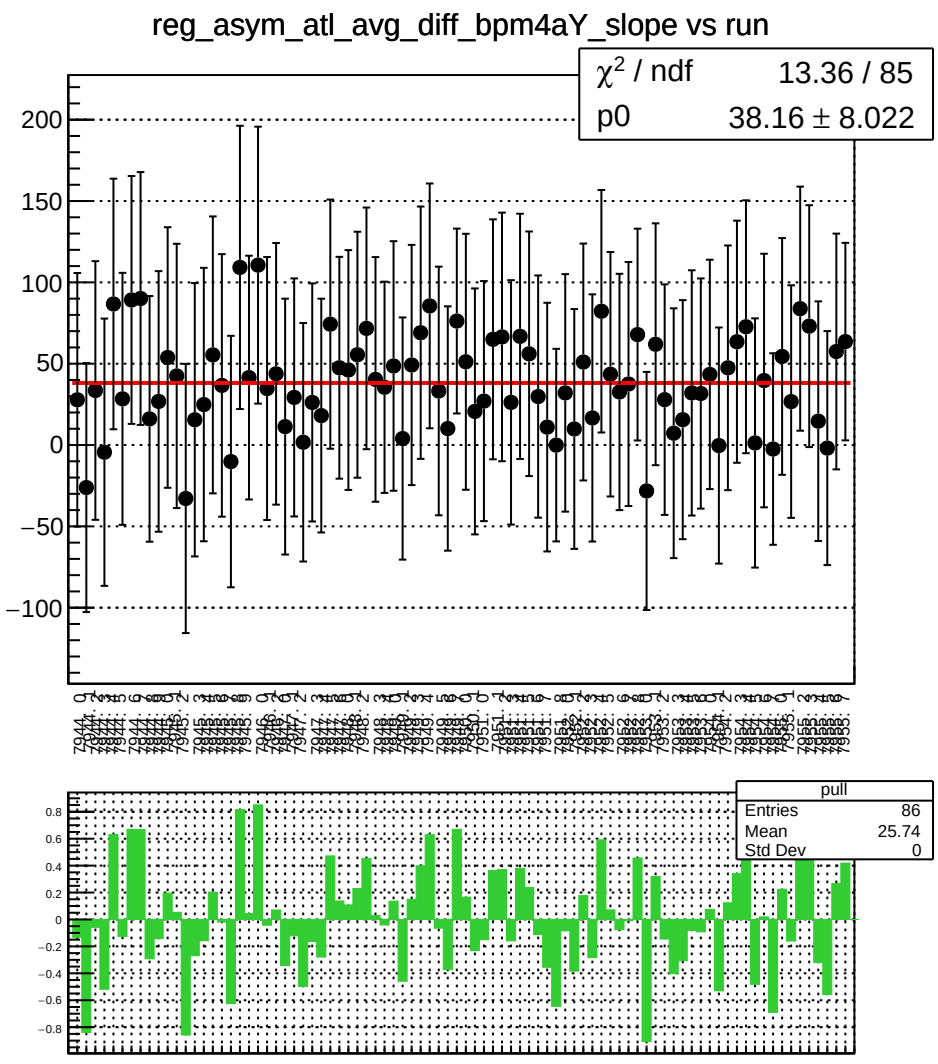

pull1D
Entries 86
Mean −0.0005728
Std Dev 0.2046

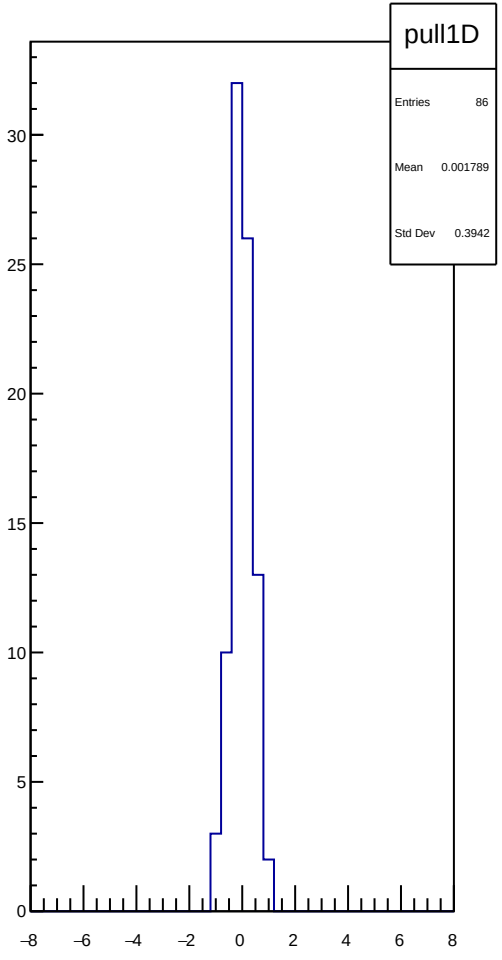

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 15.91 / 85
p0 −297.7 ± 0.7291
−285
−290
−295
−300
−305
−310
pull
Entries 86
Mean −277.6
Std Dev 0
1
0.5
0
−0.5
−1

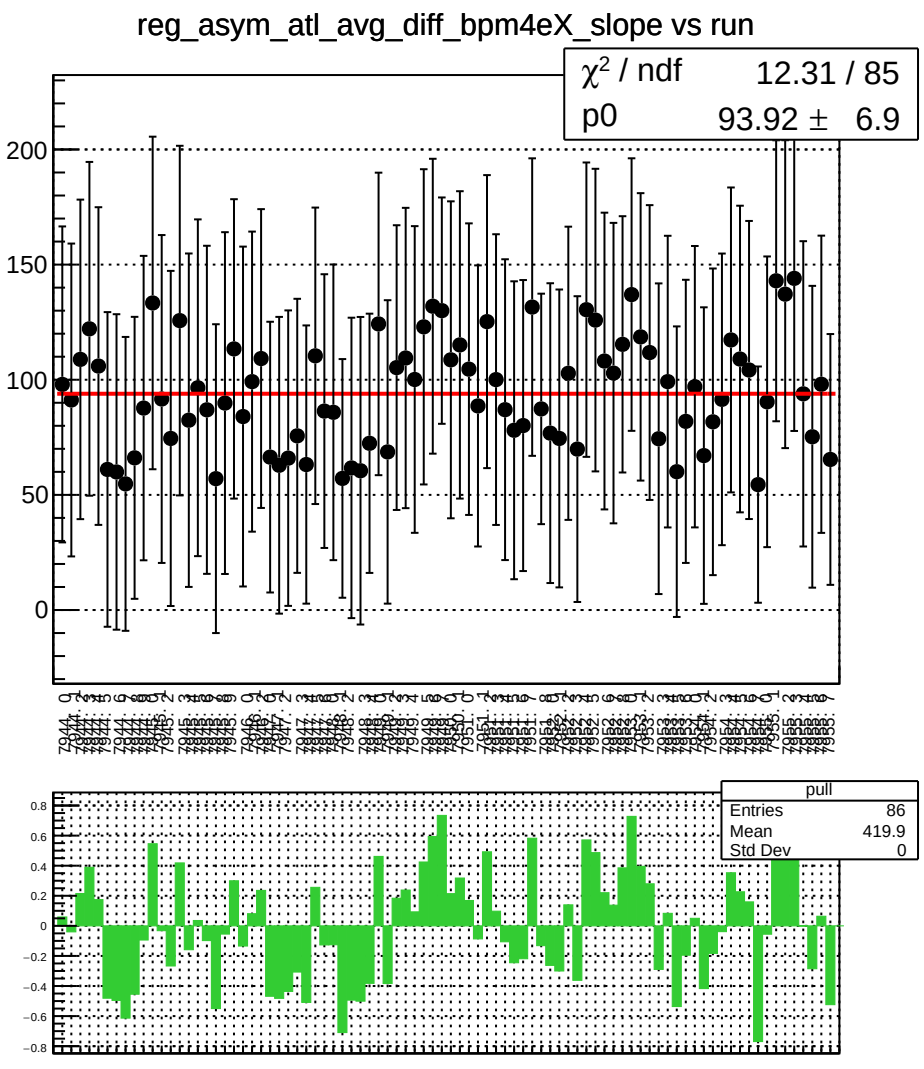

pull1D
Entries 86
Mean 0.01822
Std Dev 0.4297
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

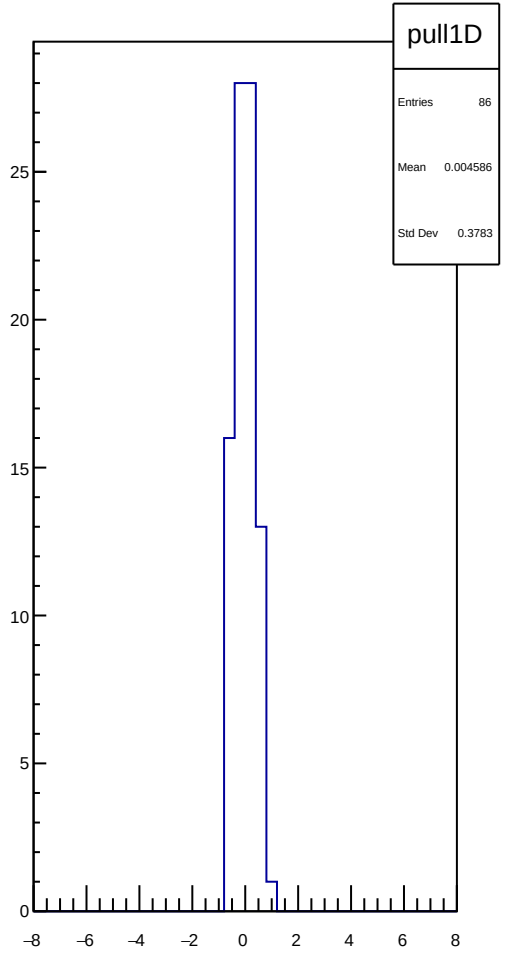

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 12.09 / 85
p0 −122.5 ± 7.768
pull
Entries 86
Mean 469.8
Std Dev 0

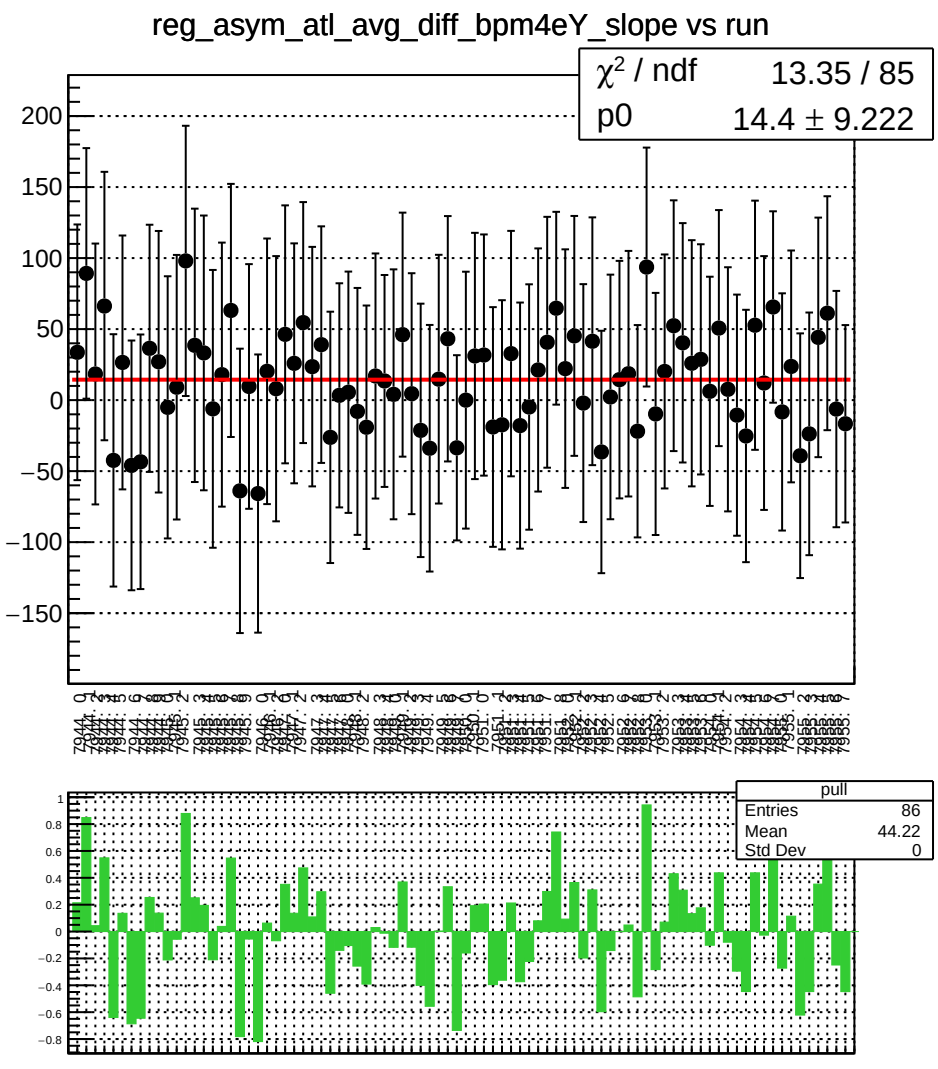

pull1D
Entries 86
Mean −0.003483
Std Dev 0.375

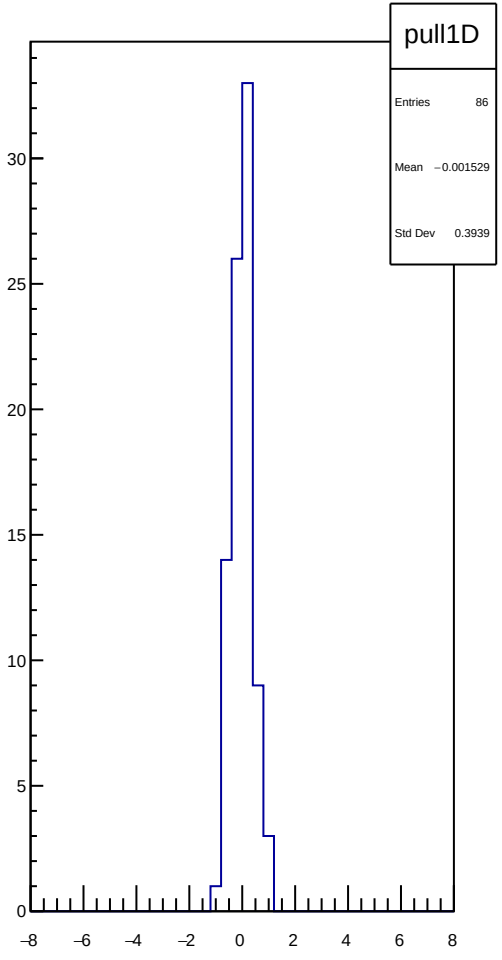

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.36 / 85
p0 38.16 ± 8.022
pull
Entries 86
Mean 25.74
Std Dev 0

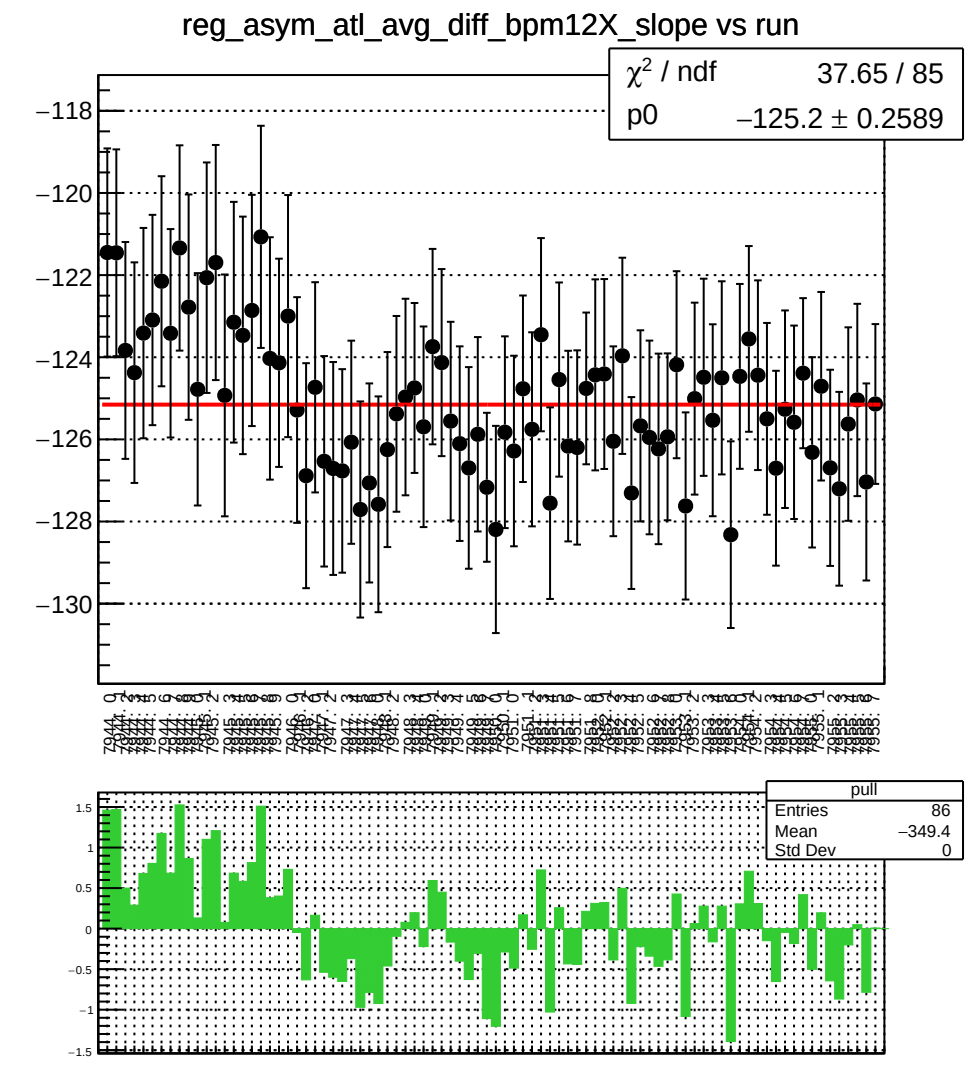

pull1D
Entries 86
Mean 0.001789
Std Dev 0.3942

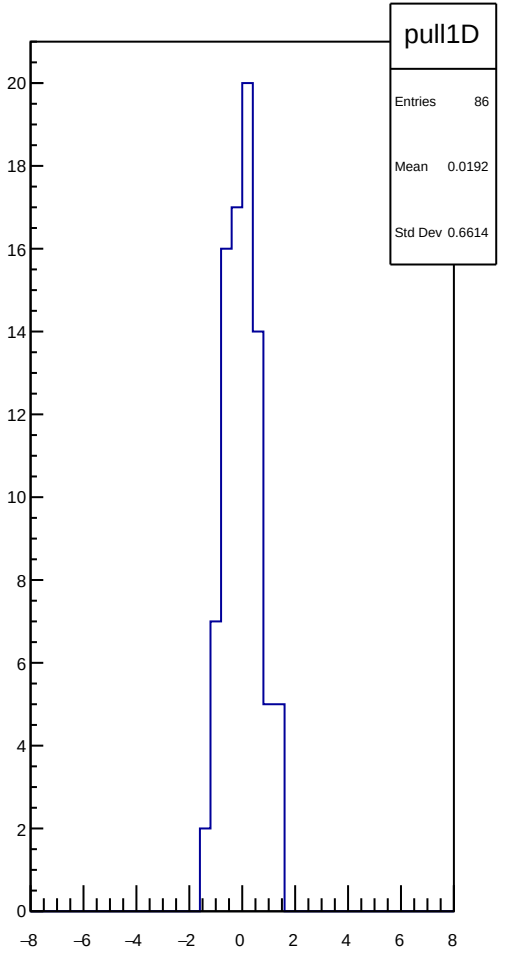

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.31 / 85
p0 93.92 ± 6.9
200
150
100
50
0
pull
Entries 86
Mean 419.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

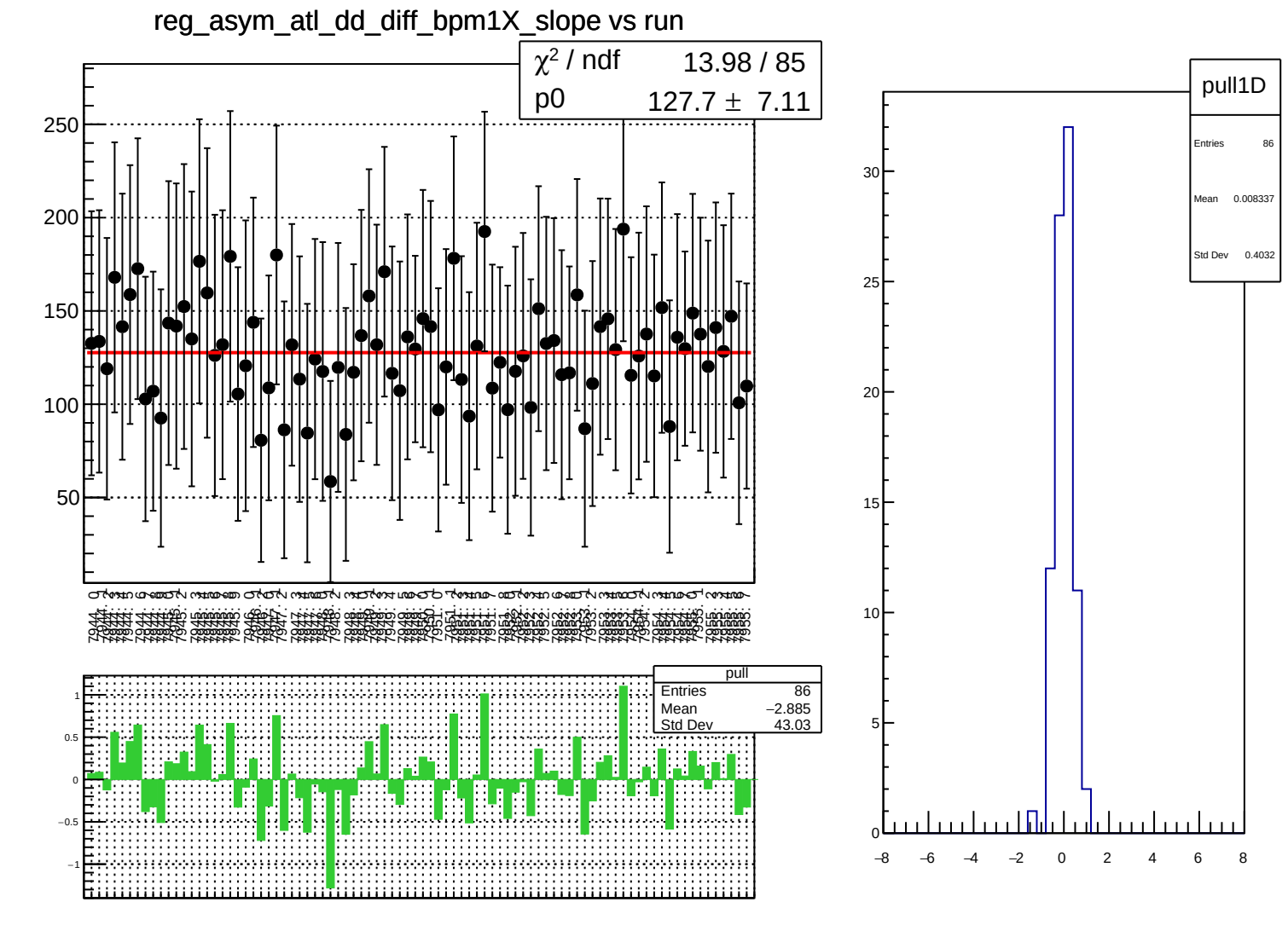

pull1D
Entries 86
Mean 0.004586
Std Dev 0.3783
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

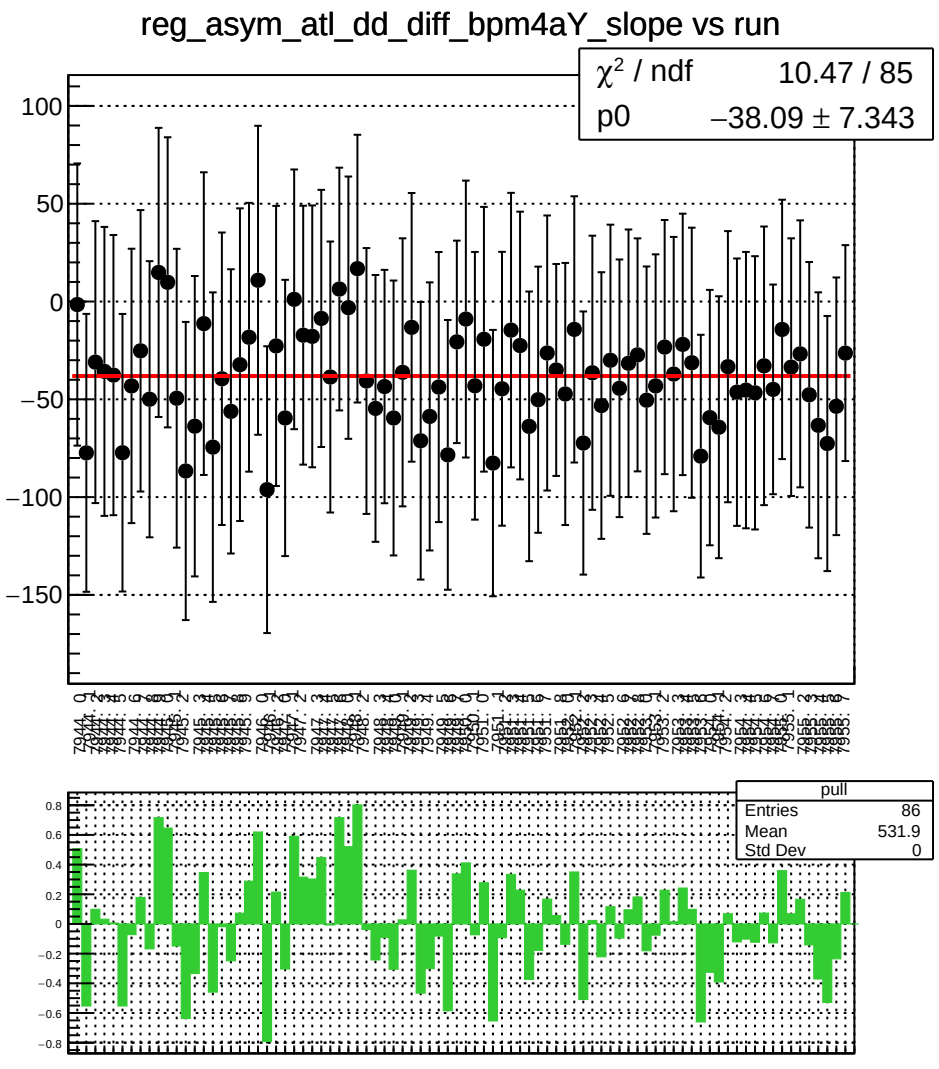

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.35 / 85
p0 14.4 ± 9.222
pull
Entries 86
Mean 44.22
Std Dev 0

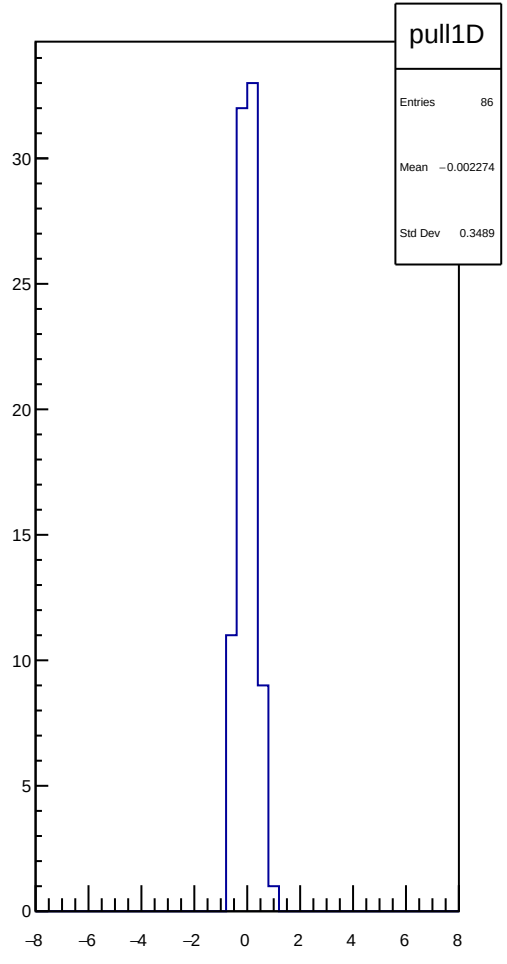

pull1D
Entries 86
Mean −0.001529
Std Dev 0.3939

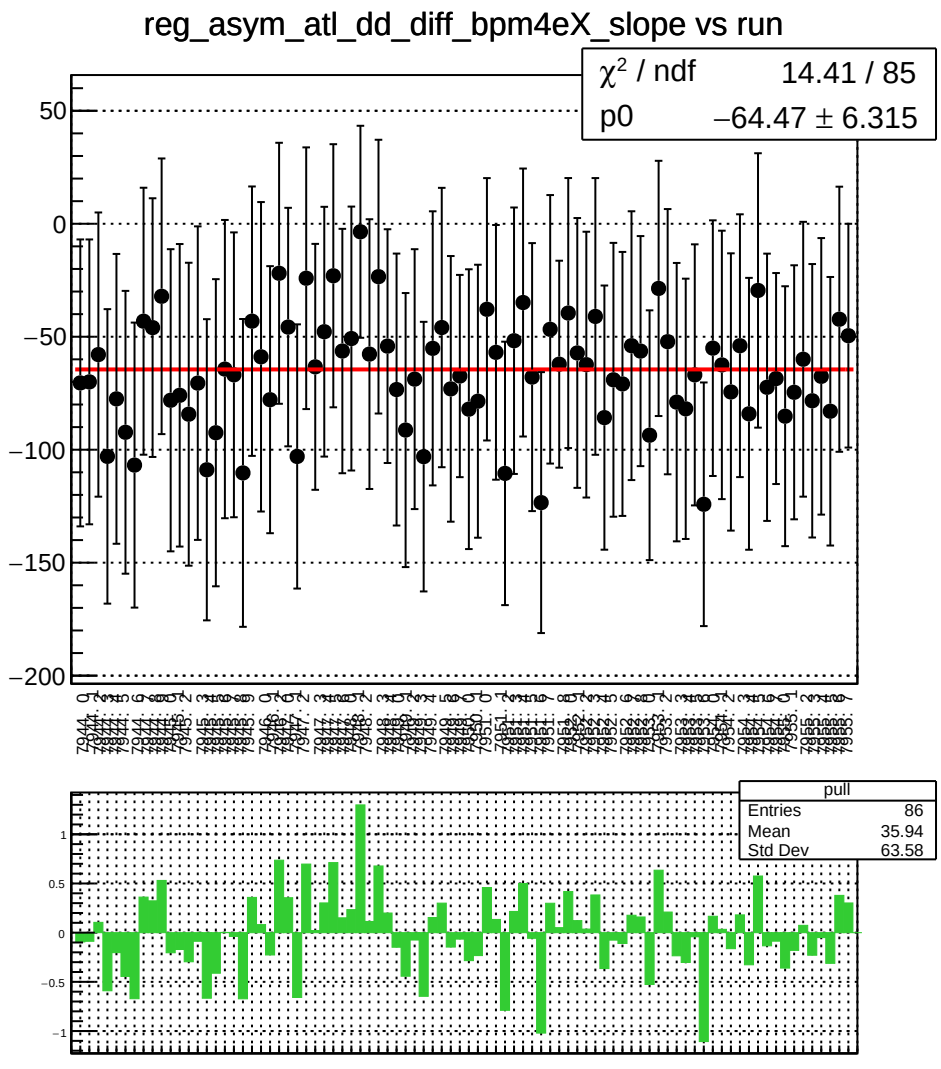

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 37.65 / 85
p0 −125.2 ± 0.2589
pull
Entries 86
Mean −349.4
Std Dev 0

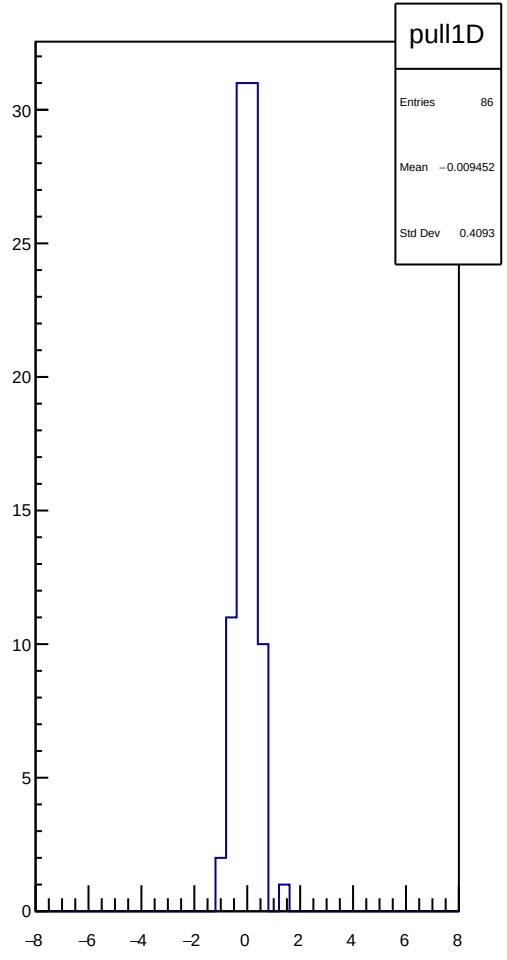

pull1D
Entries 86
Mean 0.0192
Std Dev 0.6614

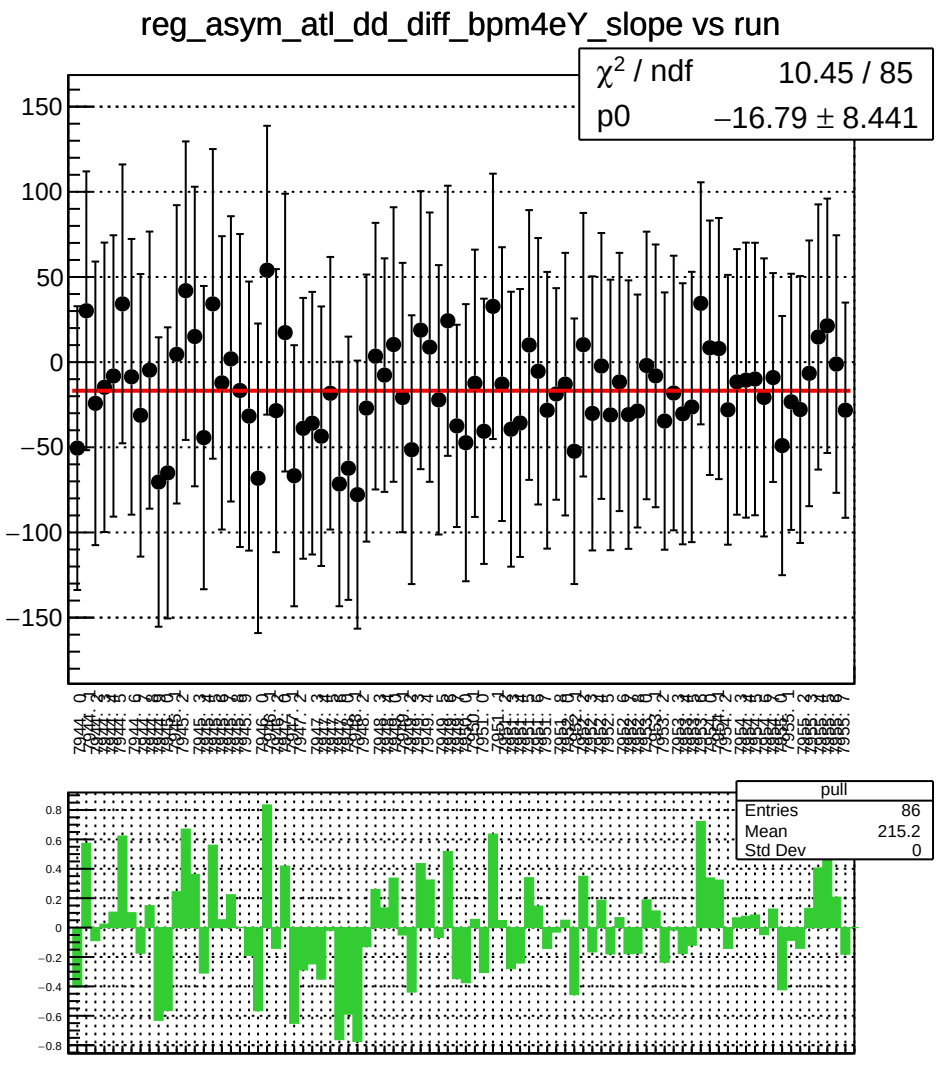

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 13.98 / 85
p0 127.7 ± 7.11
250
200
150
100
50
pull
Entries 86
Mean −2.885
Std Dev 43.03
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean 0.008337
Std Dev 0.4032
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

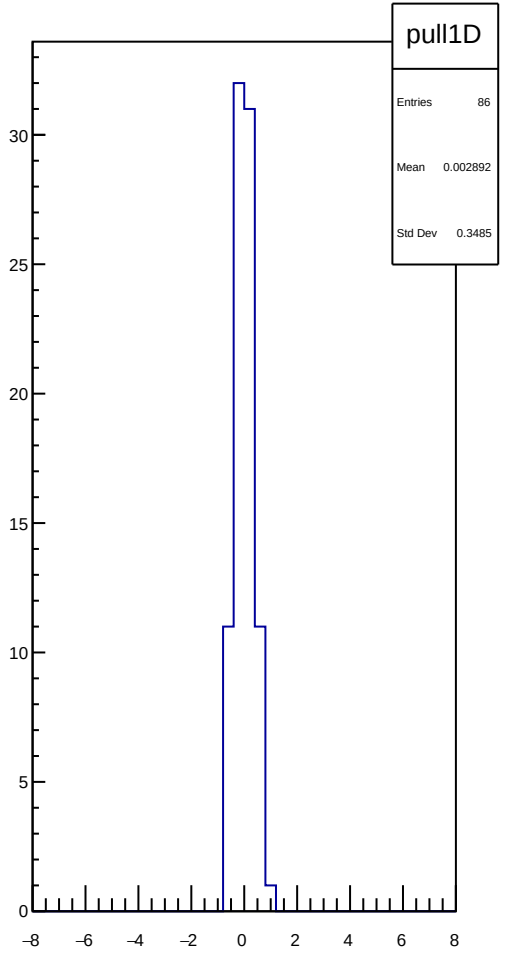

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.47 / 85
p0 −38.09 ± 7.343
100
50
0
−50
−100
−150
pull
Entries 86
Mean 531.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

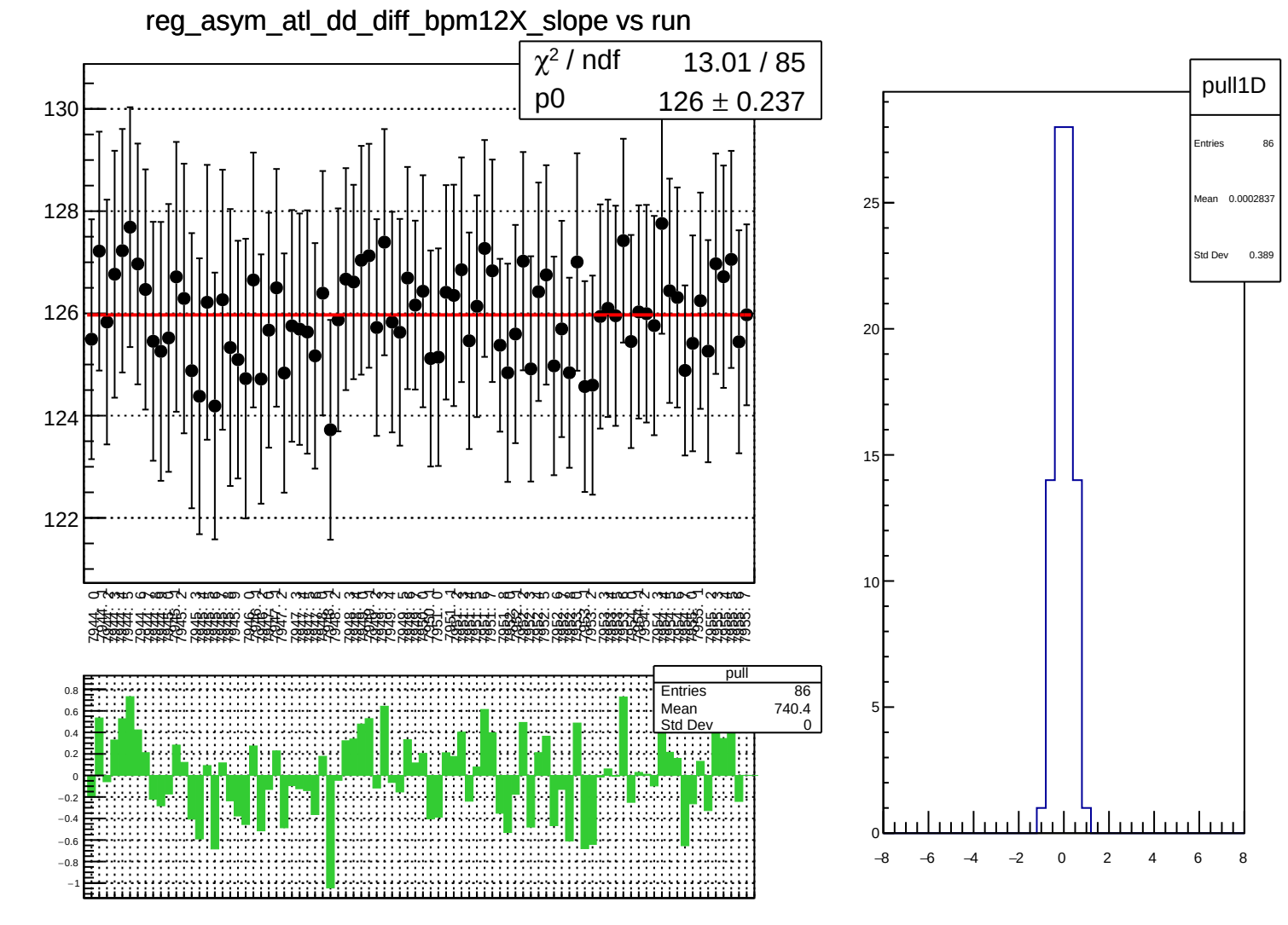

pull1D
Entries 86
Mean −0.002274
Std Dev 0.3489
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

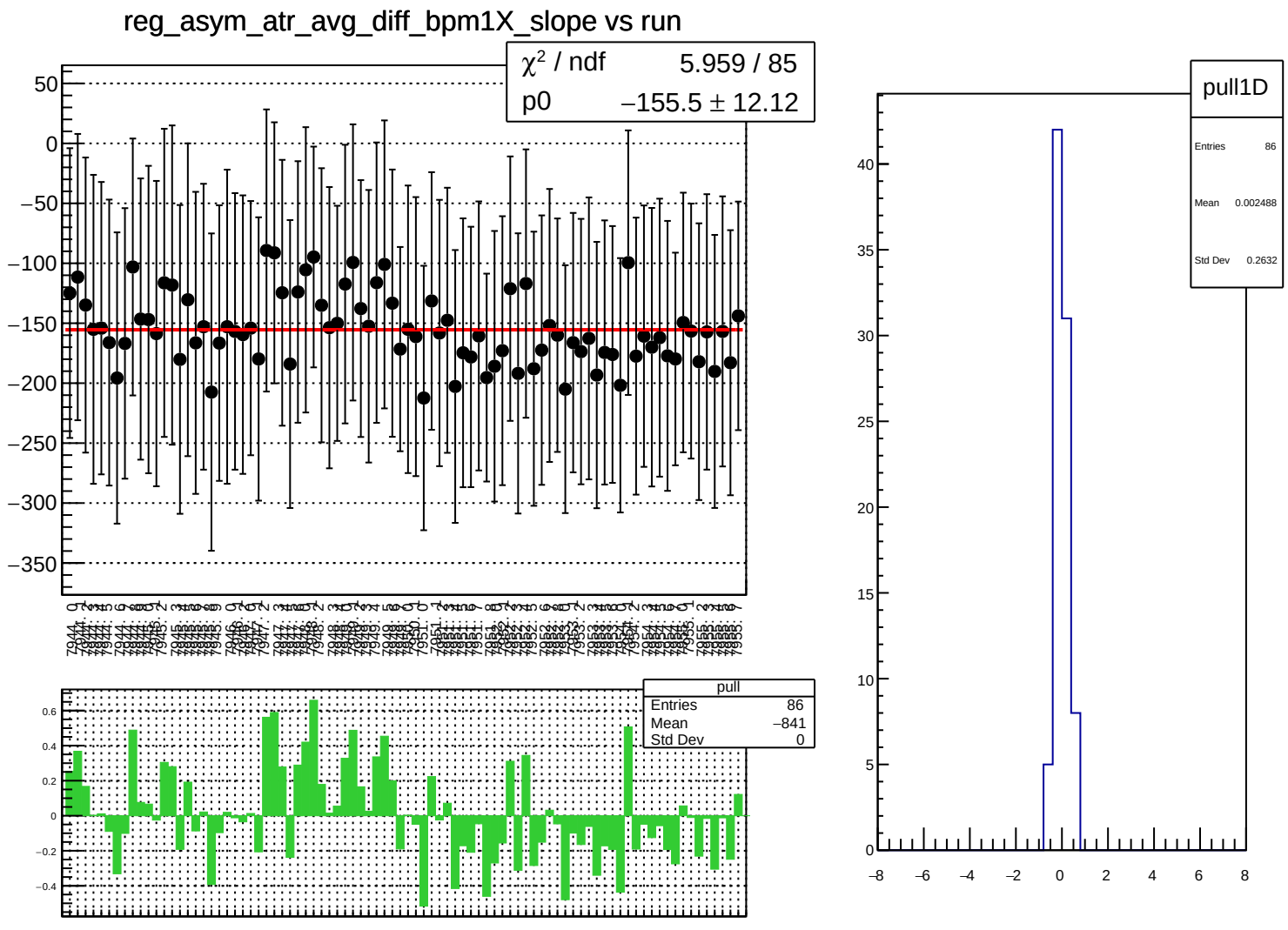

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.41 / 85
p0 −64.47 ± 6.315
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 35.94
Std Dev 63.58
1
0.5
0
−0.5
−1

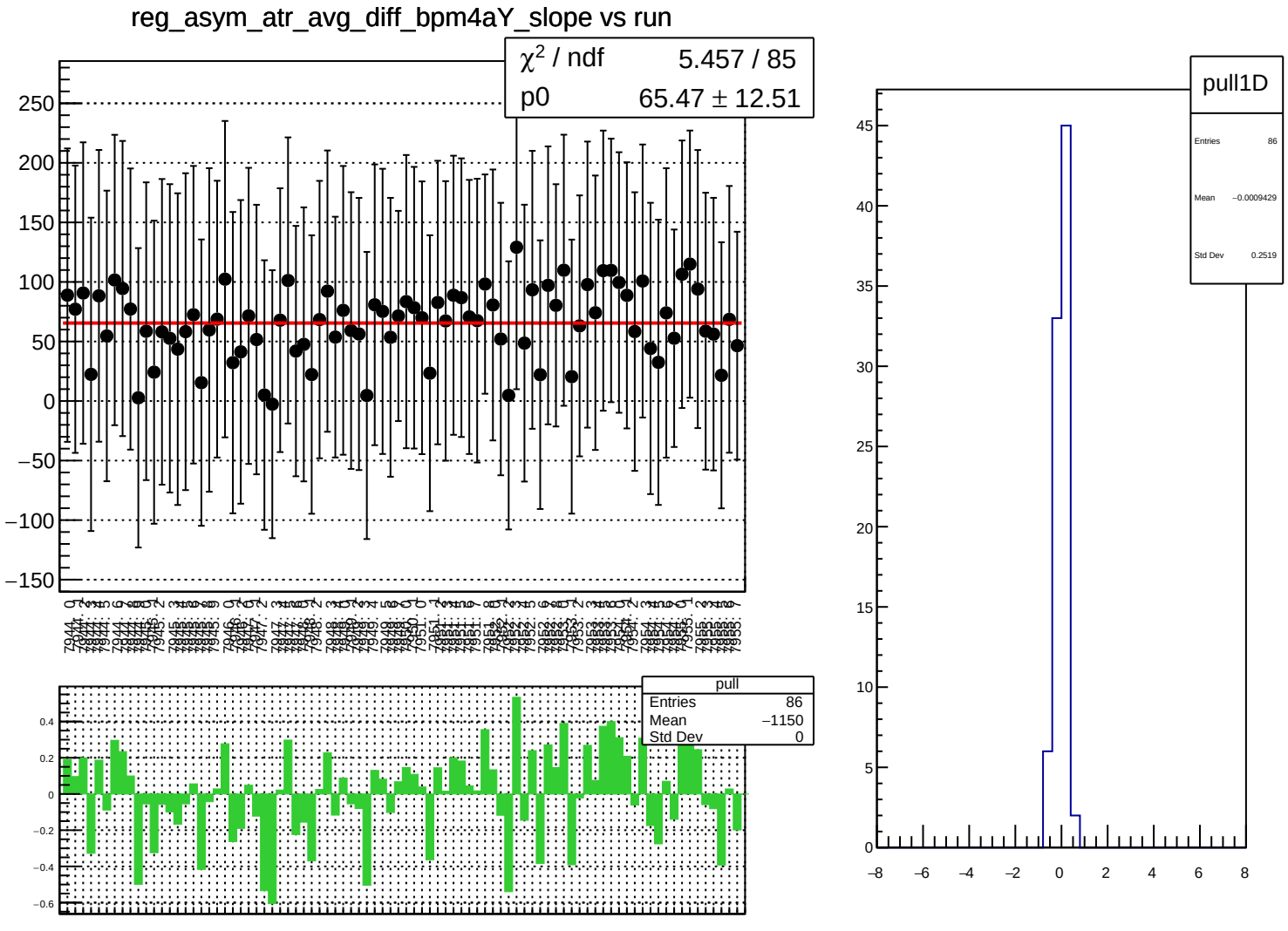

pull1D
Entries 86
Mean −0.009452
Std Dev 0.4093
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

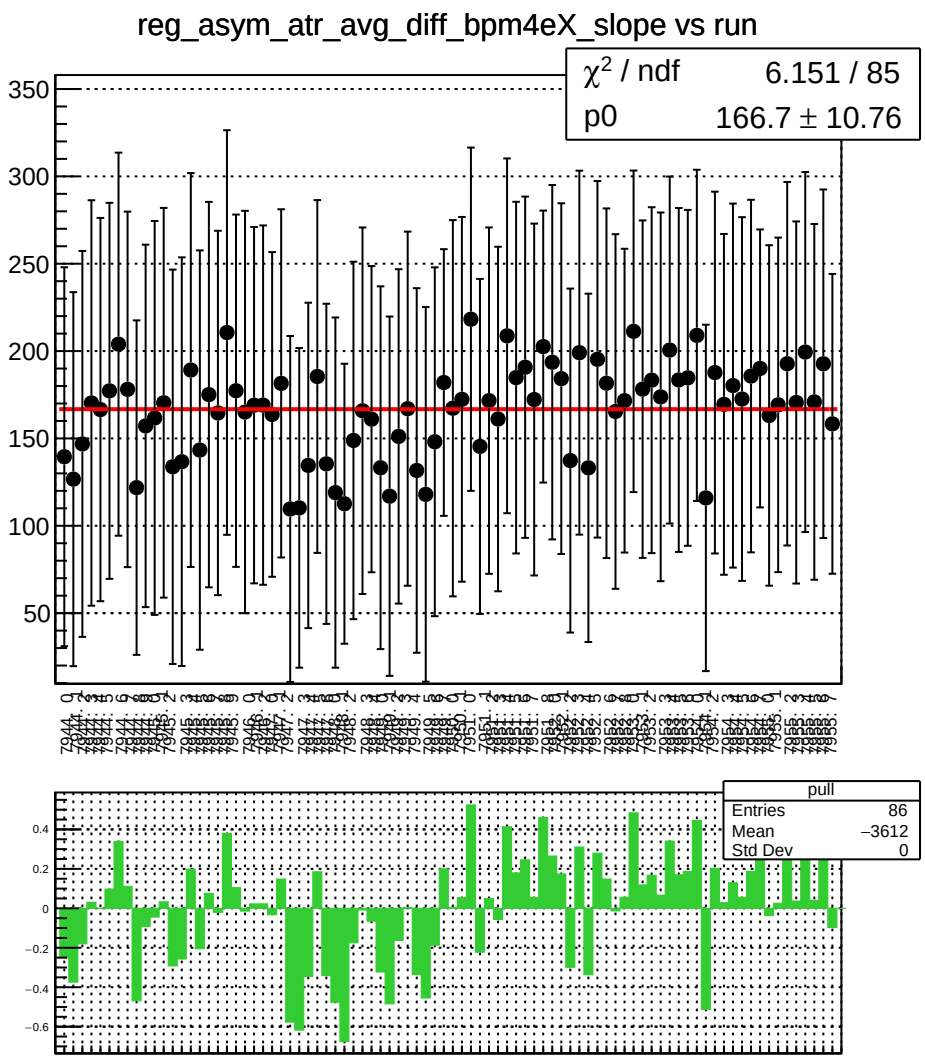

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.45 / 85
p0 −16.79 ± 8.441
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 215.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

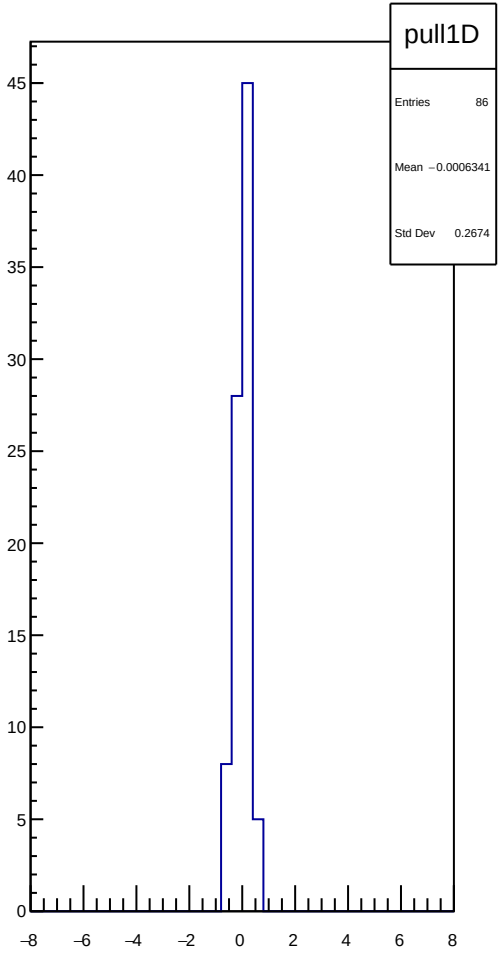

pull1D
Entries 86
Mean 0.002892
Std Dev 0.3485
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

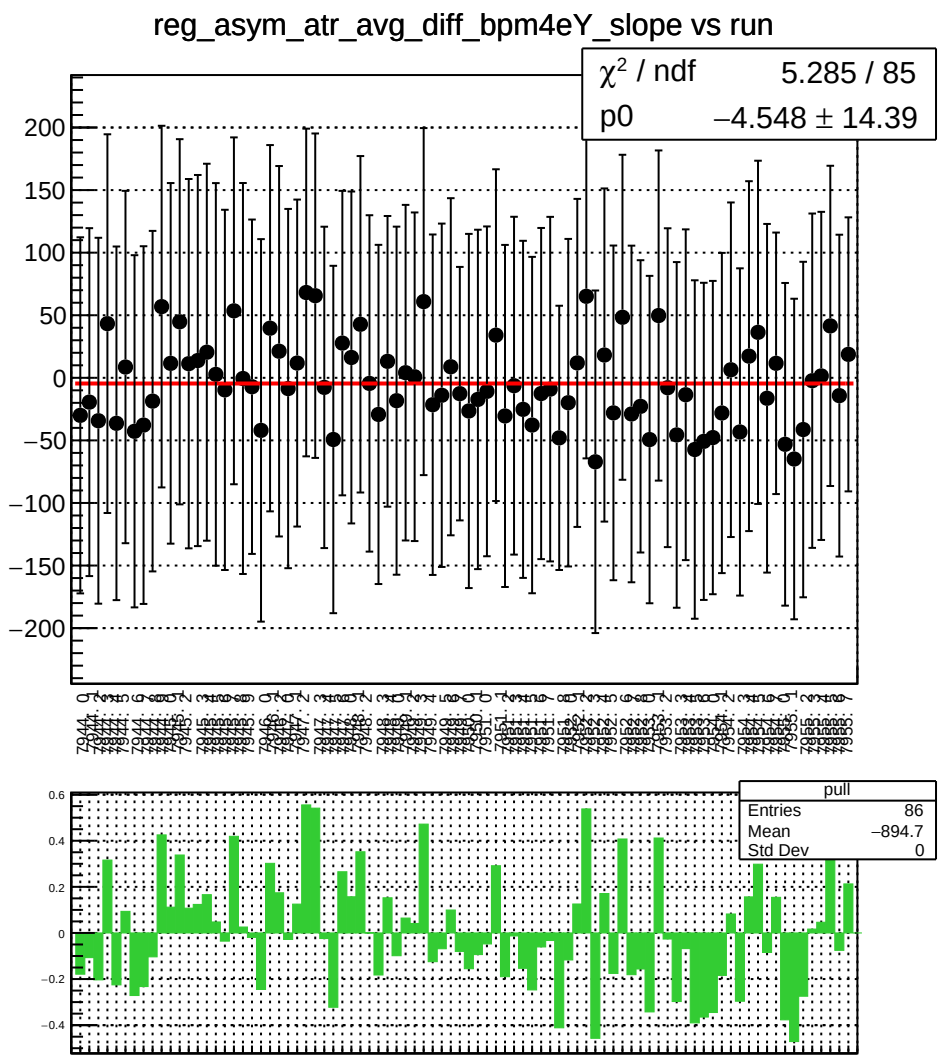

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 13.01 / 85
p0 126 ± 0.237
130
128
126
124
122
pull
Entries 86
Mean 740.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 86
Mean 0.0002837
Std Dev 0.389
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

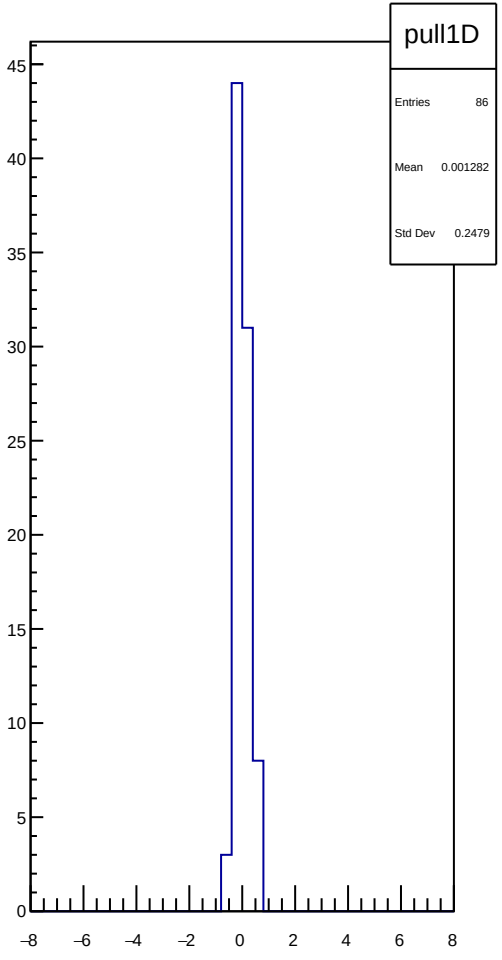

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 5.959 / 85
p0 −155.5 ± 12.12
pull
Entries 86
Mean −841
Std Dev 0
pull1D
Entries 86
Mean 0.002488
Std Dev 0.2632

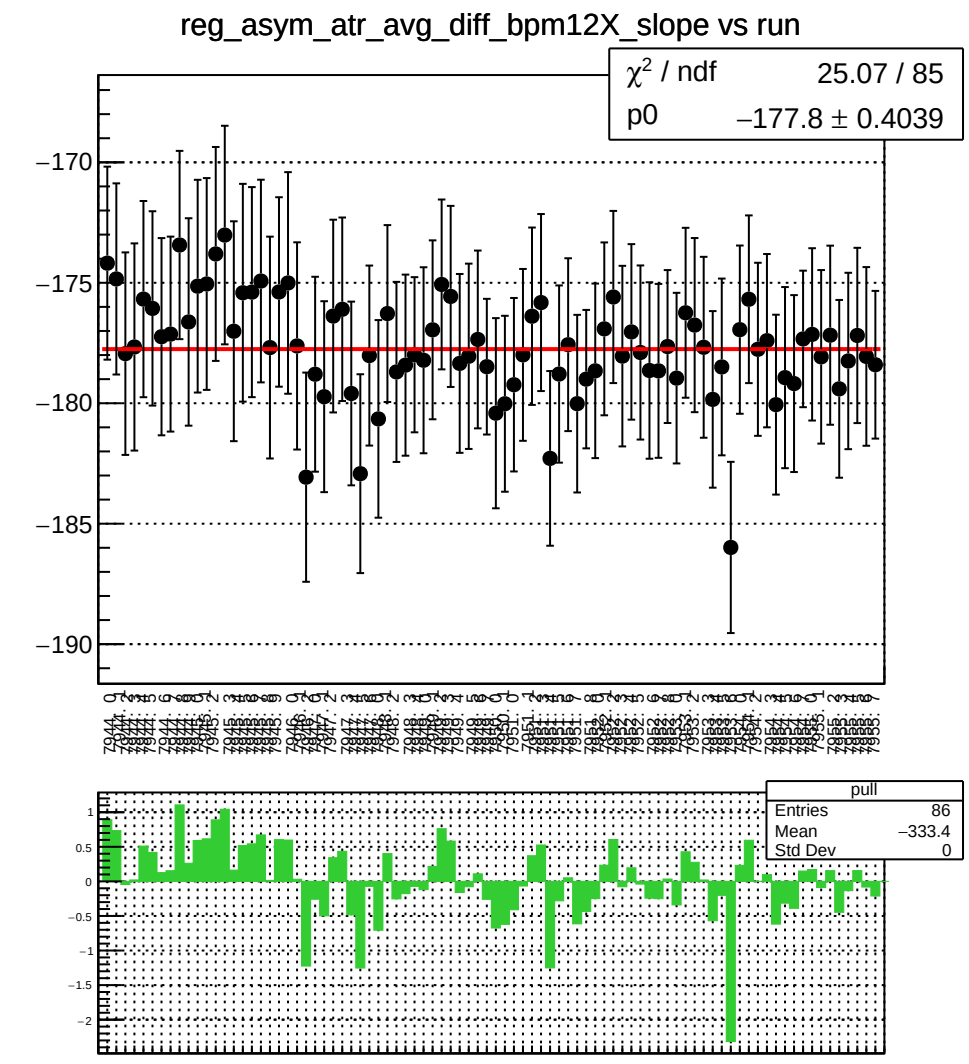

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.457 / 85
p0 65.47 ± 12.51
pull
Entries 86
Mean −1150
Std Dev 0
pull1D
Entries 86
Mean −0.0009429
Std Dev 0.2519

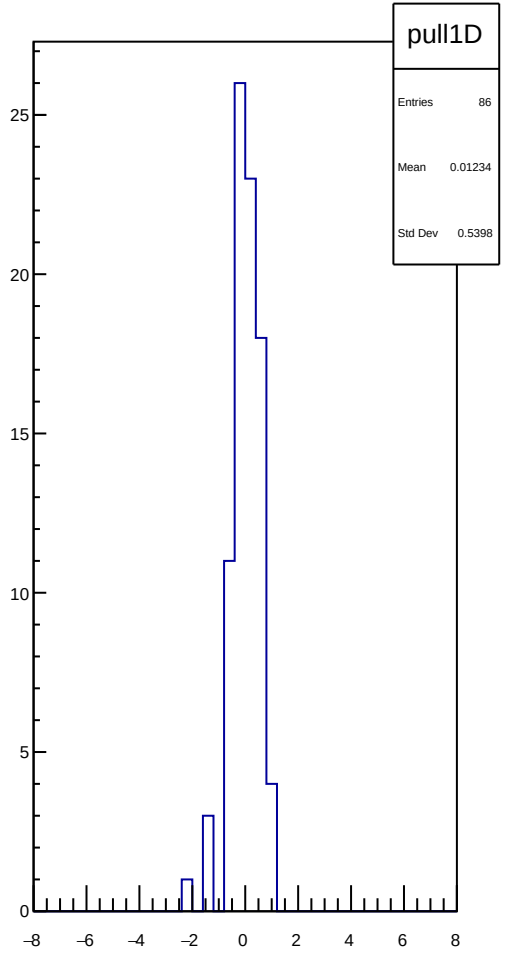

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.151 / 85
p0 166.7 ± 10.76
pull
Entries 86
Mean −3612
Std Dev 0

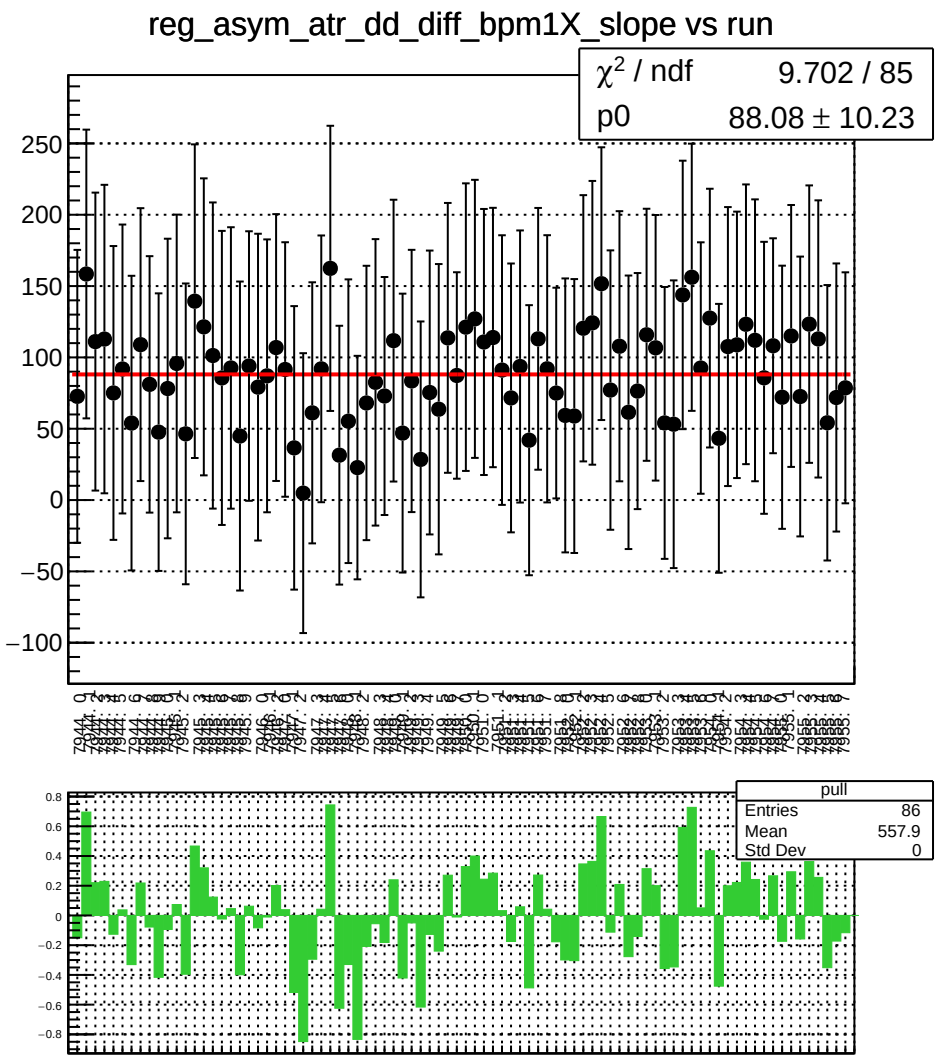

pull1D
Entries 86
Mean −0.0006341
Std Dev 0.2674

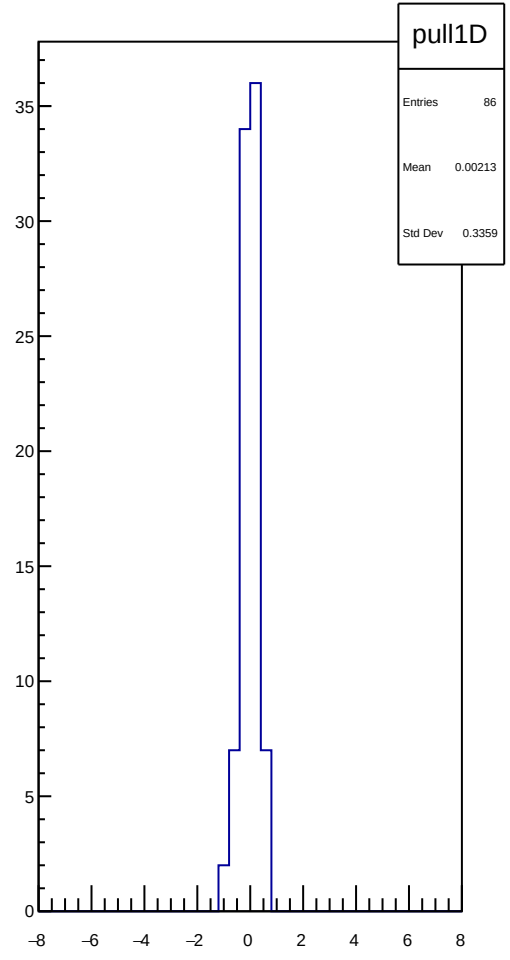

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.285 / 85
p0 −4.548 ± 14.39
pull
Entries 86
Mean −894.7
Std Dev 0

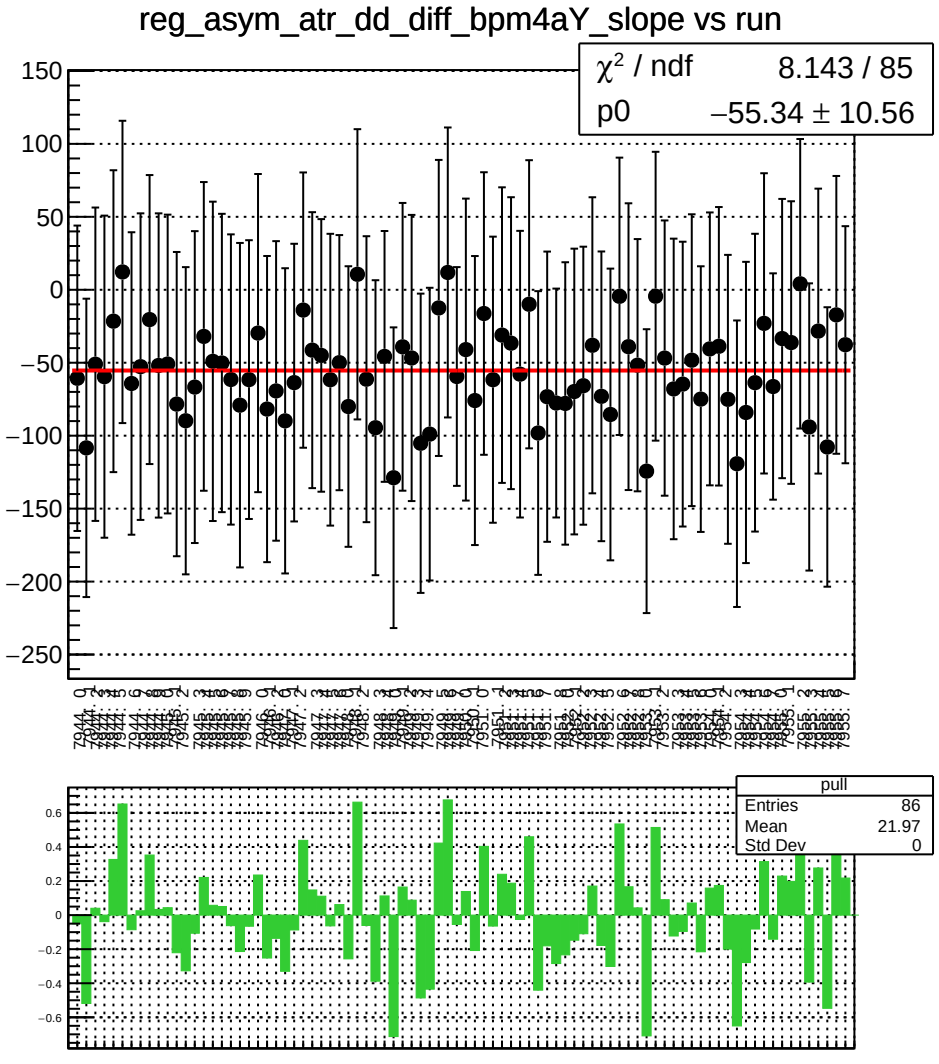

pull1D
Entries 86
Mean 0.001282
Std Dev 0.2479

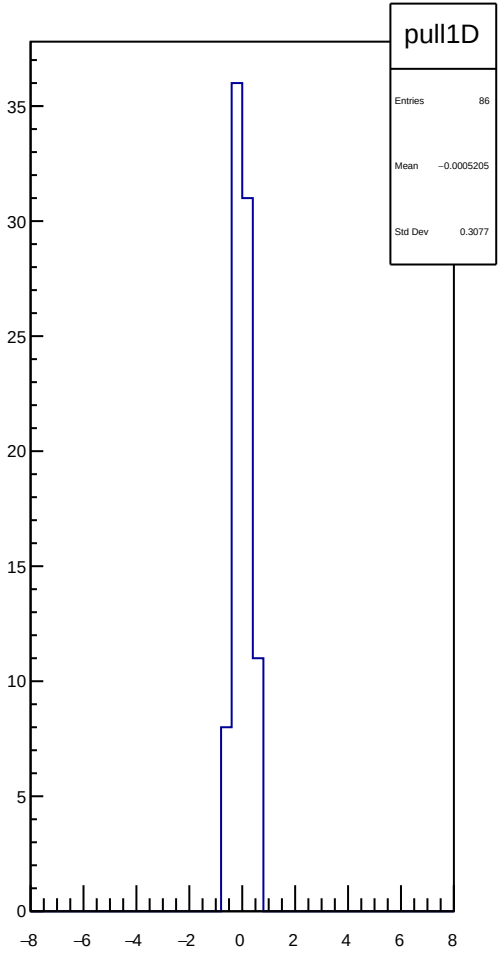

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 25.07 / 85
p0 −177.8 ± 0.4039
−170
−175
−180
−185
−190
pull
Entries 86
Mean −333.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

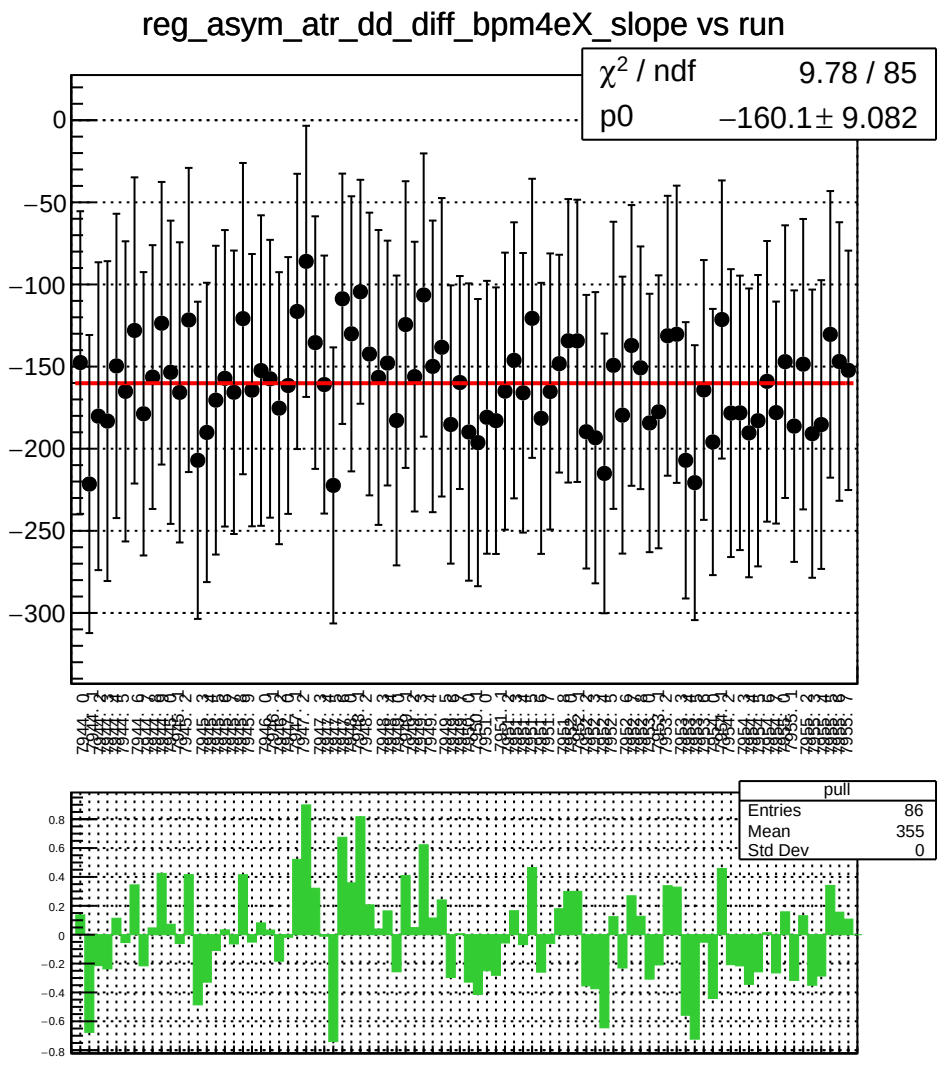

pull1D
Entries 86
Mean 0.01234
Std Dev 0.5398
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

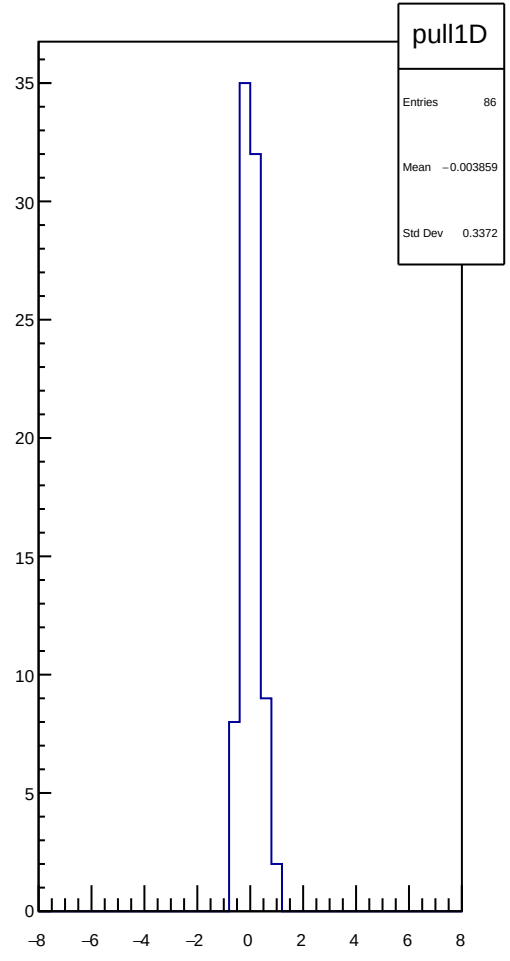

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 9.702 / 85
p0 88.08 ± 10.23
pull
Entries 86
Mean 557.9
Std Dev 0

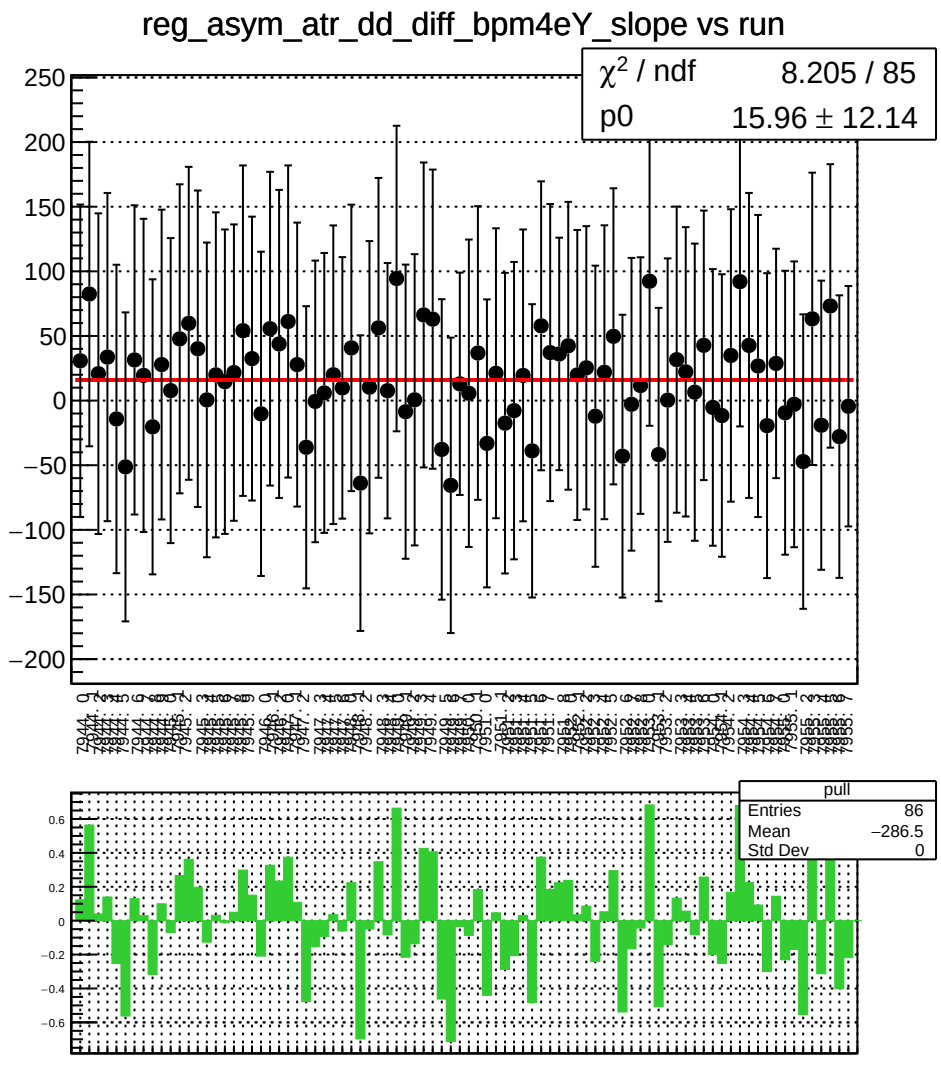

pull1D
Entries 86
Mean 0.00213
Std Dev 0.3359

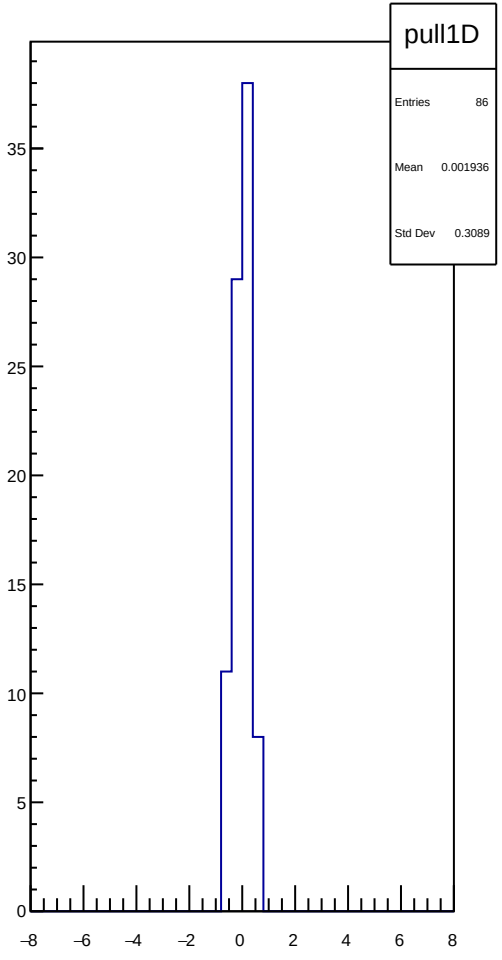

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.143 / 85
p0 −55.34 ± 10.56
pull
Entries 86
Mean 21.97
Std Dev 0

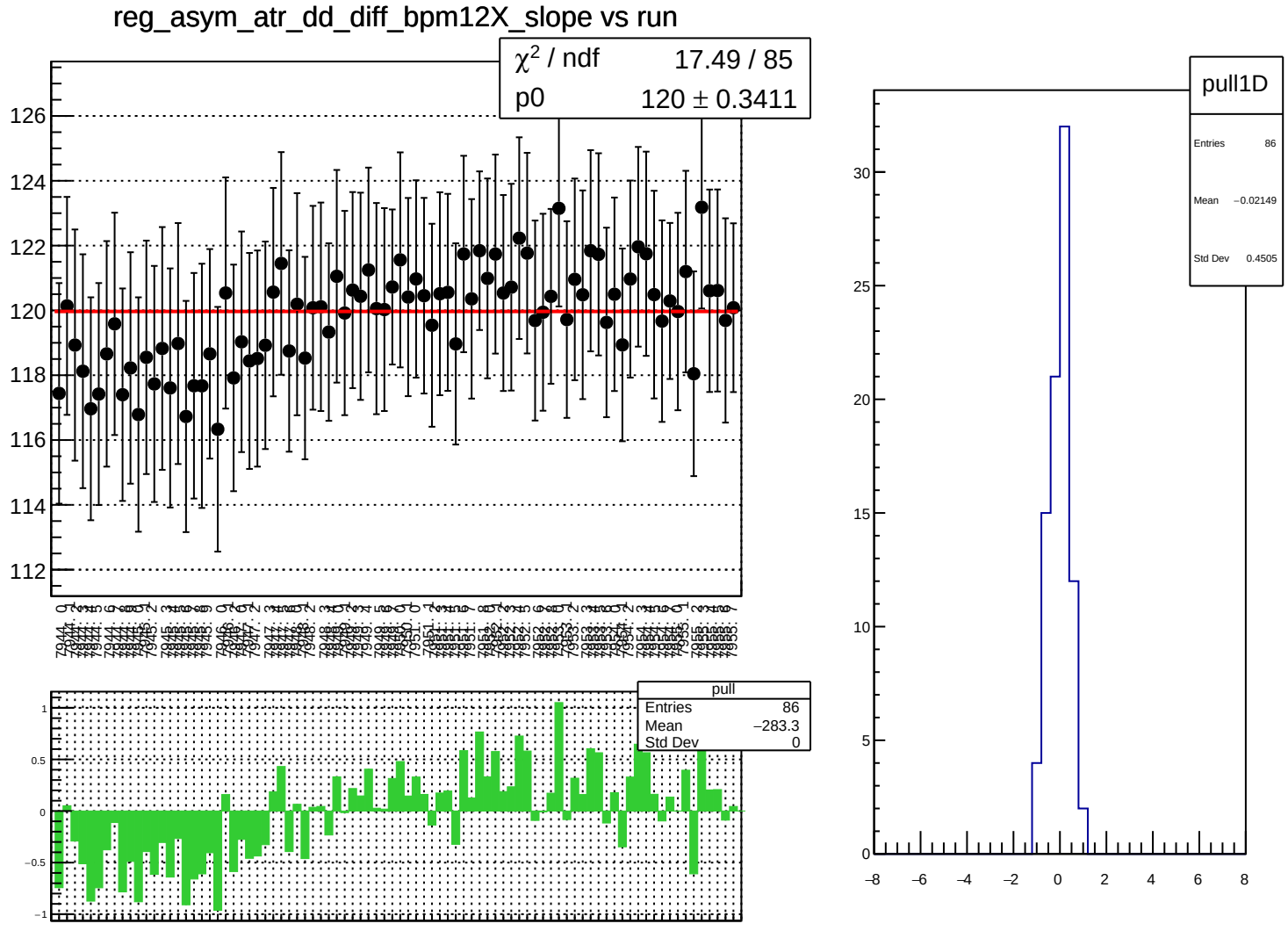

pull1D
Entries 86
Mean −0.0005205
Std Dev 0.3077

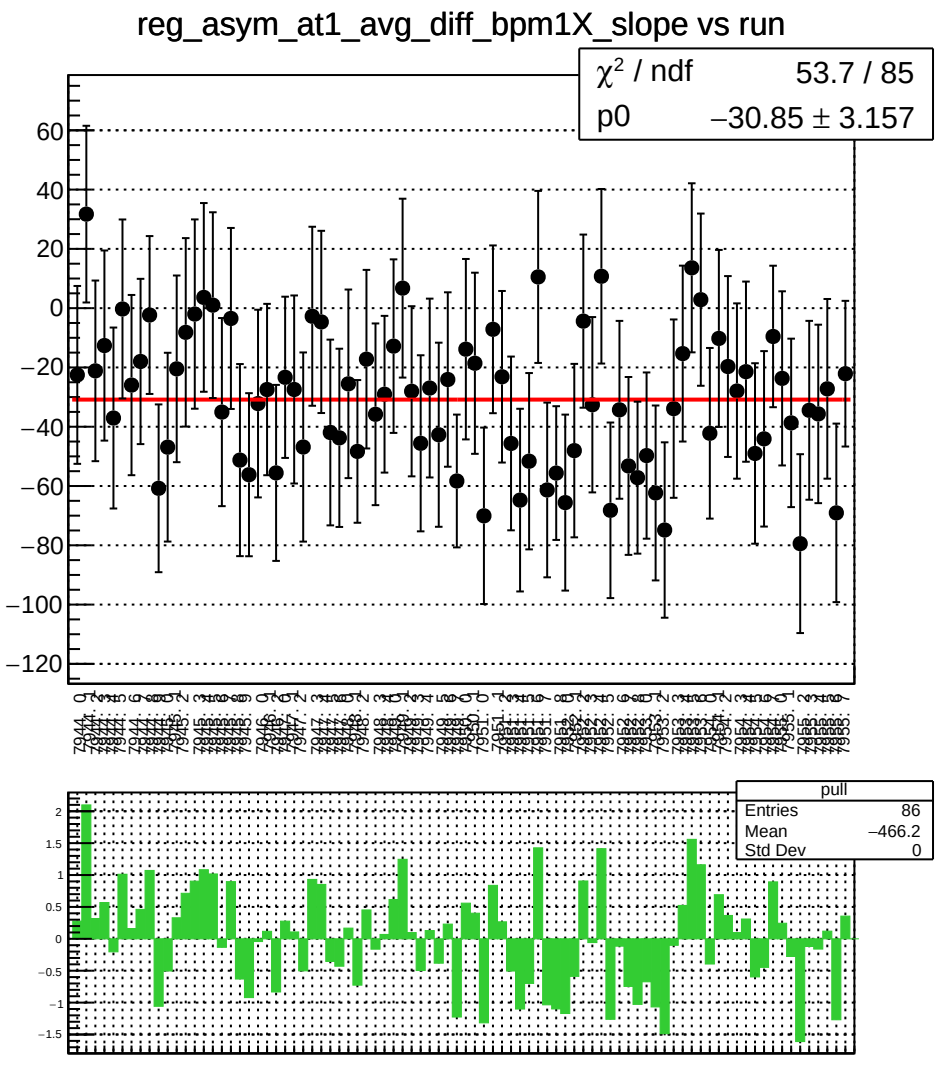

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.78 / 85
p0 −160.1± 9.082
pull
Entries 86
Mean 355
Std Dev 0

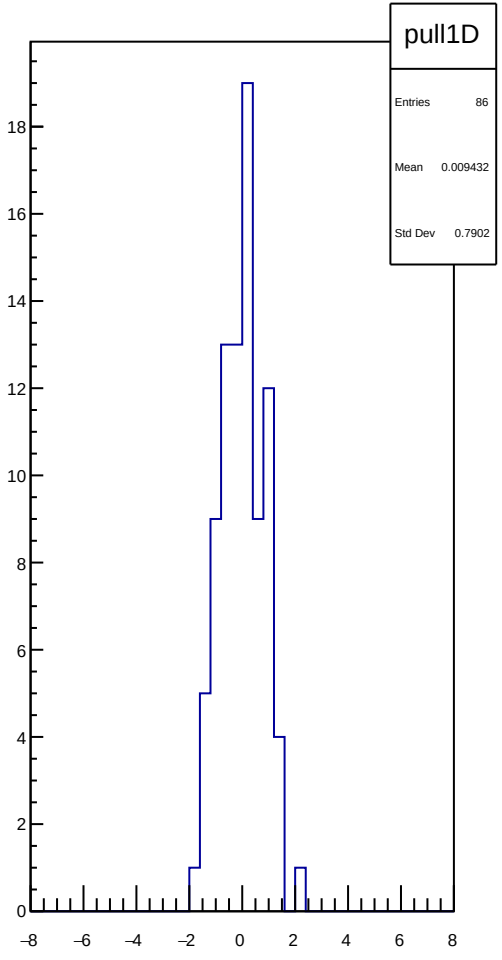

pull1D
Entries 86
Mean −0.003859
Std Dev 0.3372

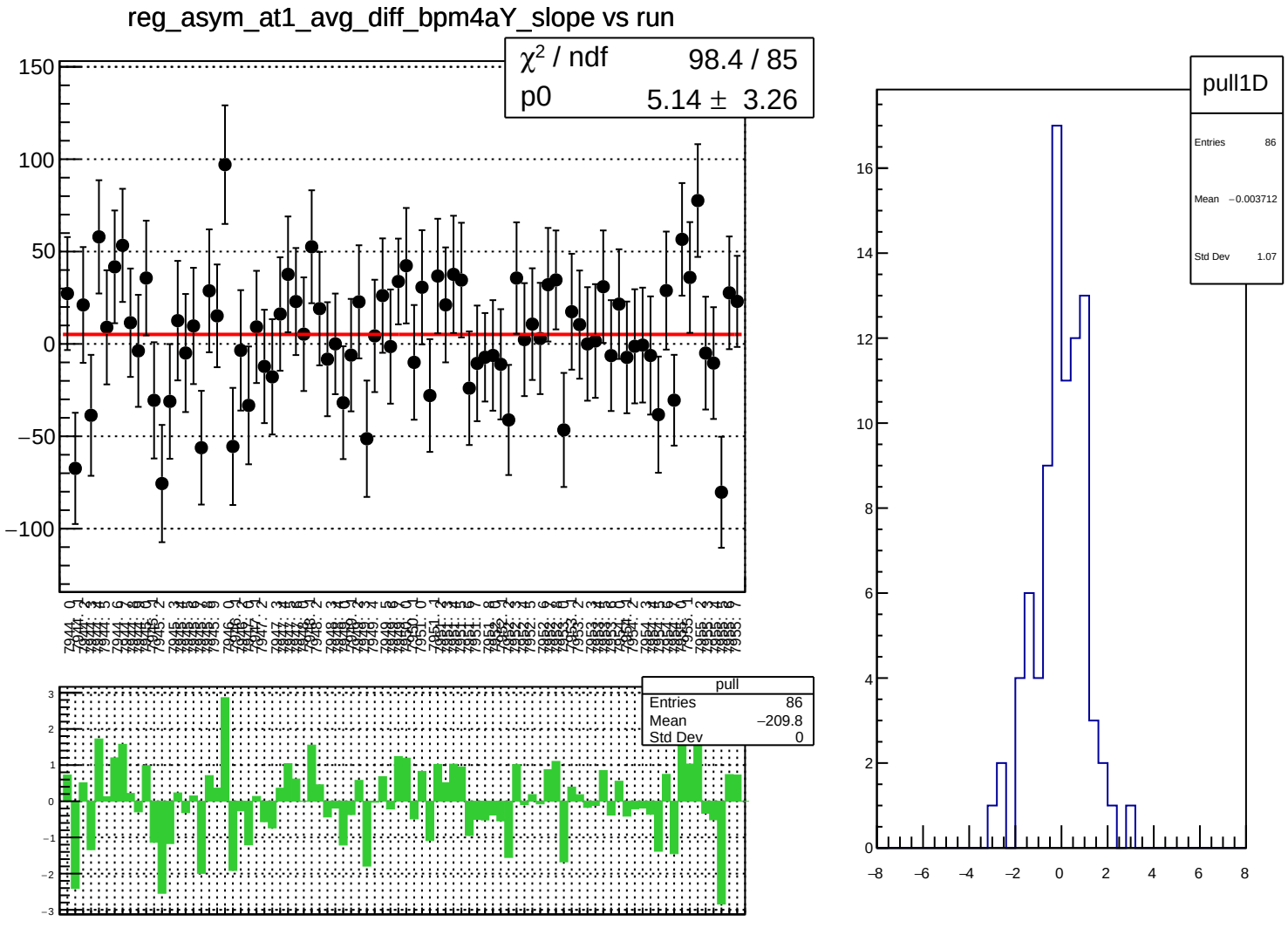

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.205 / 85
p0 15.96 ± 12.14
pull
Entries 86
Mean −286.5
Std Dev 0

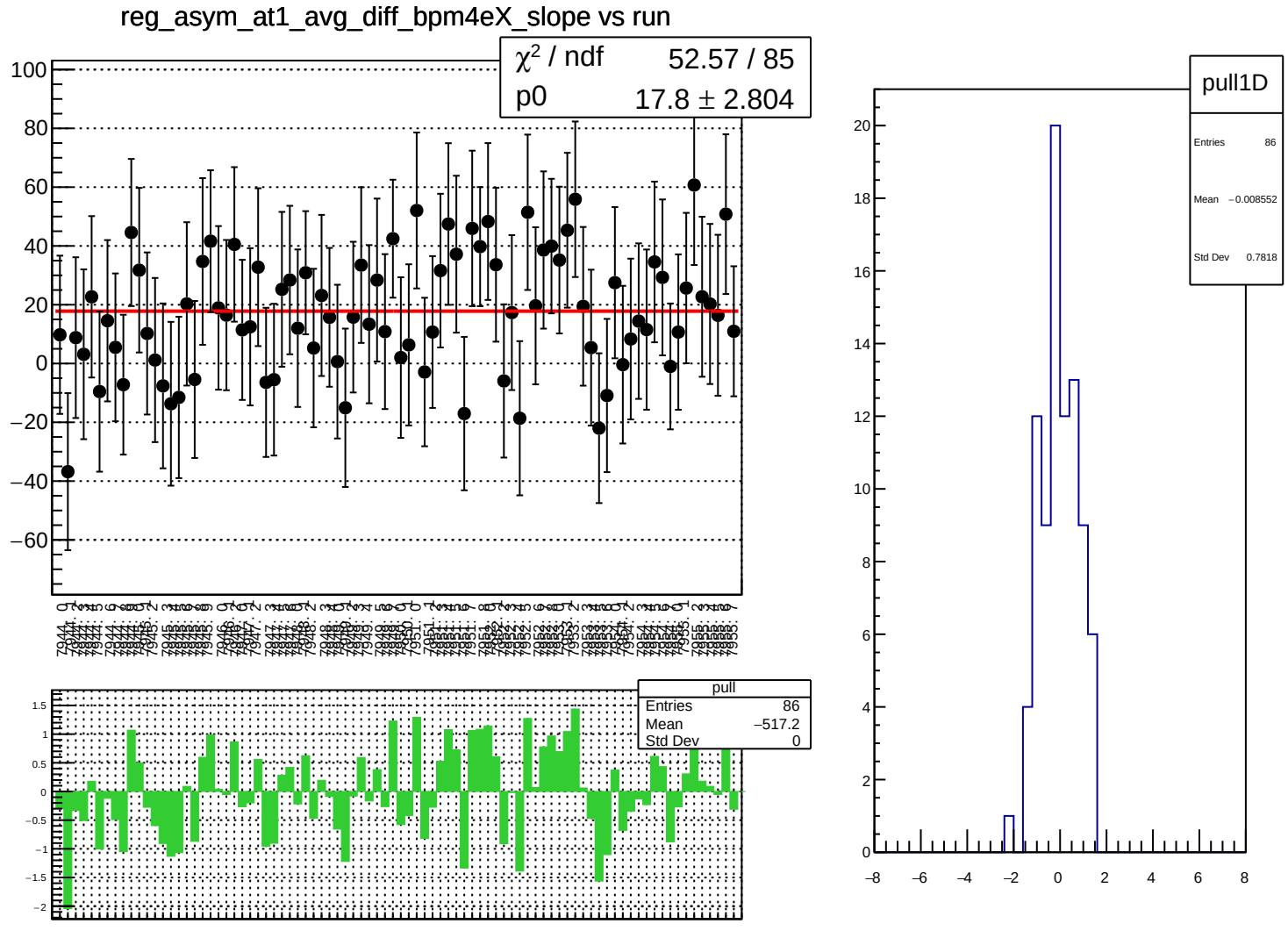

pull1D
Entries 86
Mean 0.001936
Std Dev 0.3089

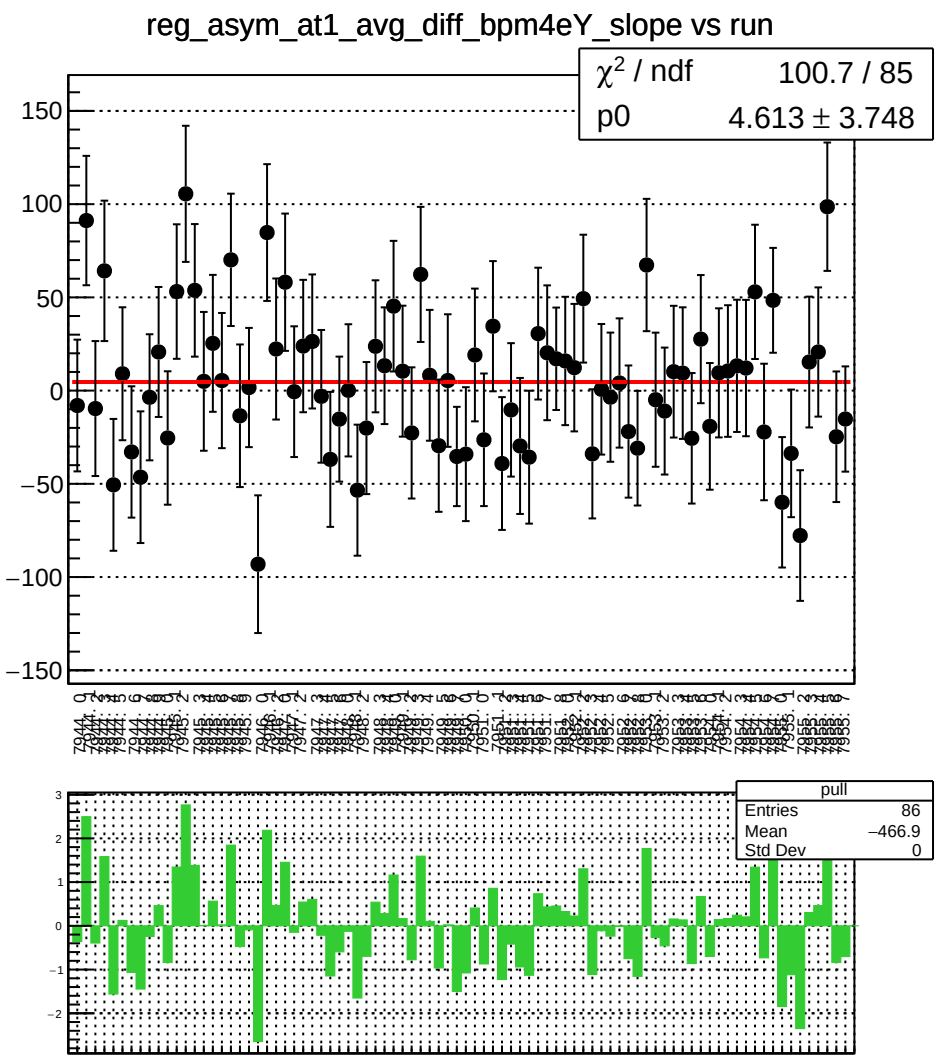

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 17.49 / 85
p0 120 ± 0.3411
126
124
122
120
118
116
114
112
pull
Entries 86
Mean −283.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.02149
Std Dev 0.4505
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

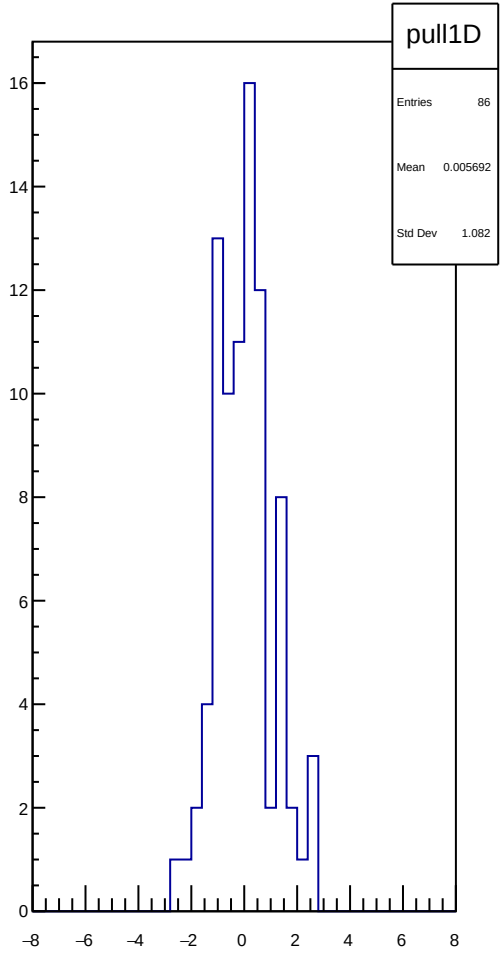

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 53.7 / 85
p0 −30.85 ± 3.157
pull
Entries 86
Mean −466.2
Std Dev 0

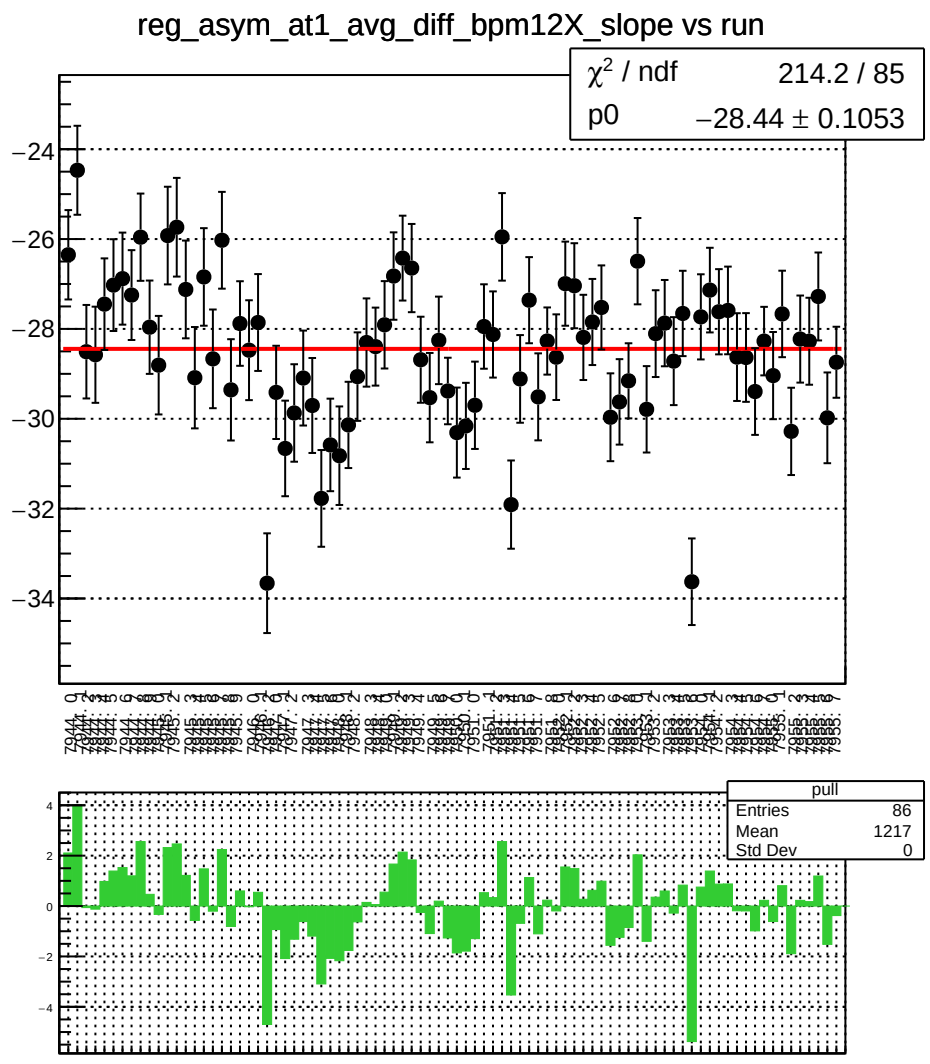

pull1D
Entries 86
Mean 0.009432
Std Dev 0.7902

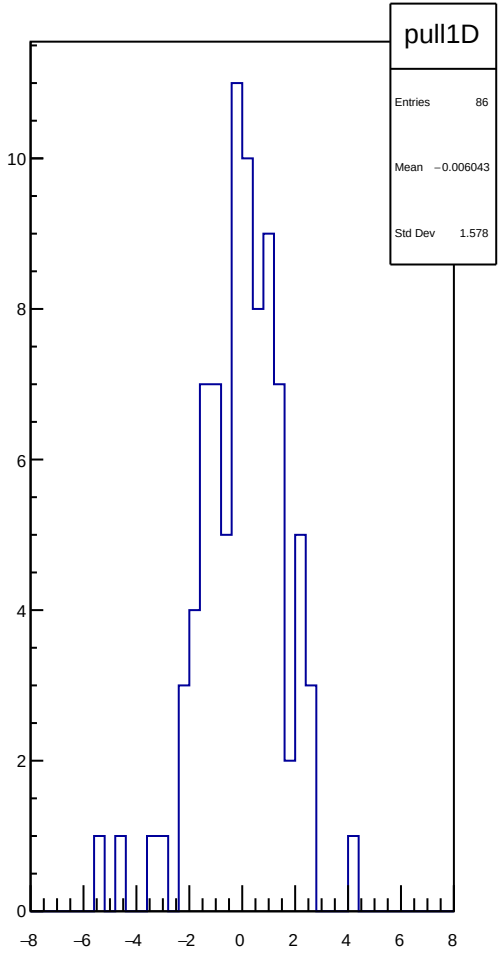

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.4 / 85
p0 5.14 ± 3.26
150
100
50
0
−50
−100
pull
Entries 86
Mean −209.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.003712
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

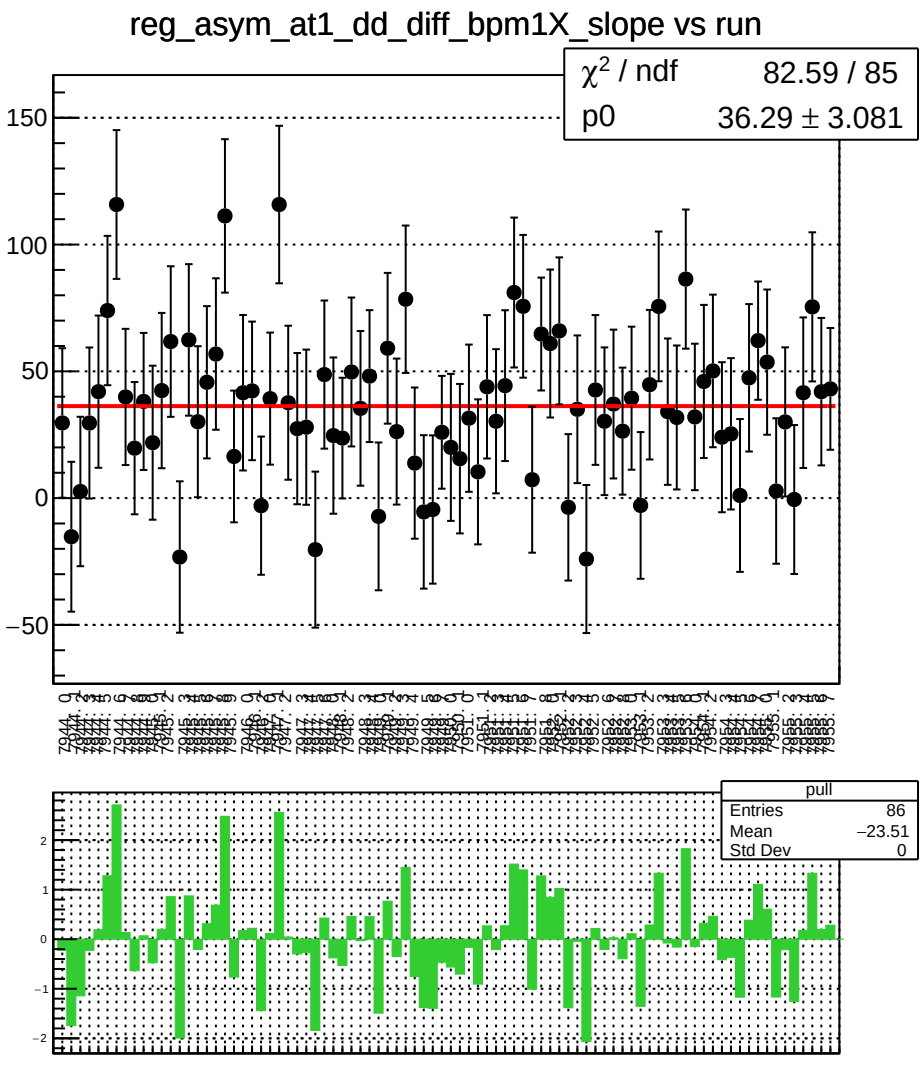

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.57 / 85
p0 17.8 ± 2.804
pull
Entries 86
Mean −517.2
Std Dev 0
pull1D
Entries 86
Mean −0.008552
Std Dev 0.7818

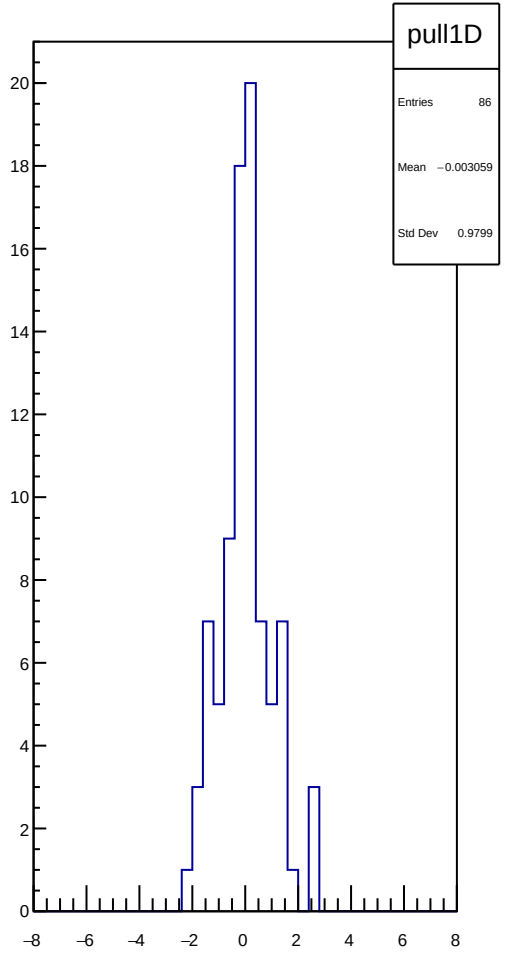

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 100.7 / 85
p0 4.613 ± 3.748
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −466.9
Std Dev 0
3
2
1
0
−1
−2

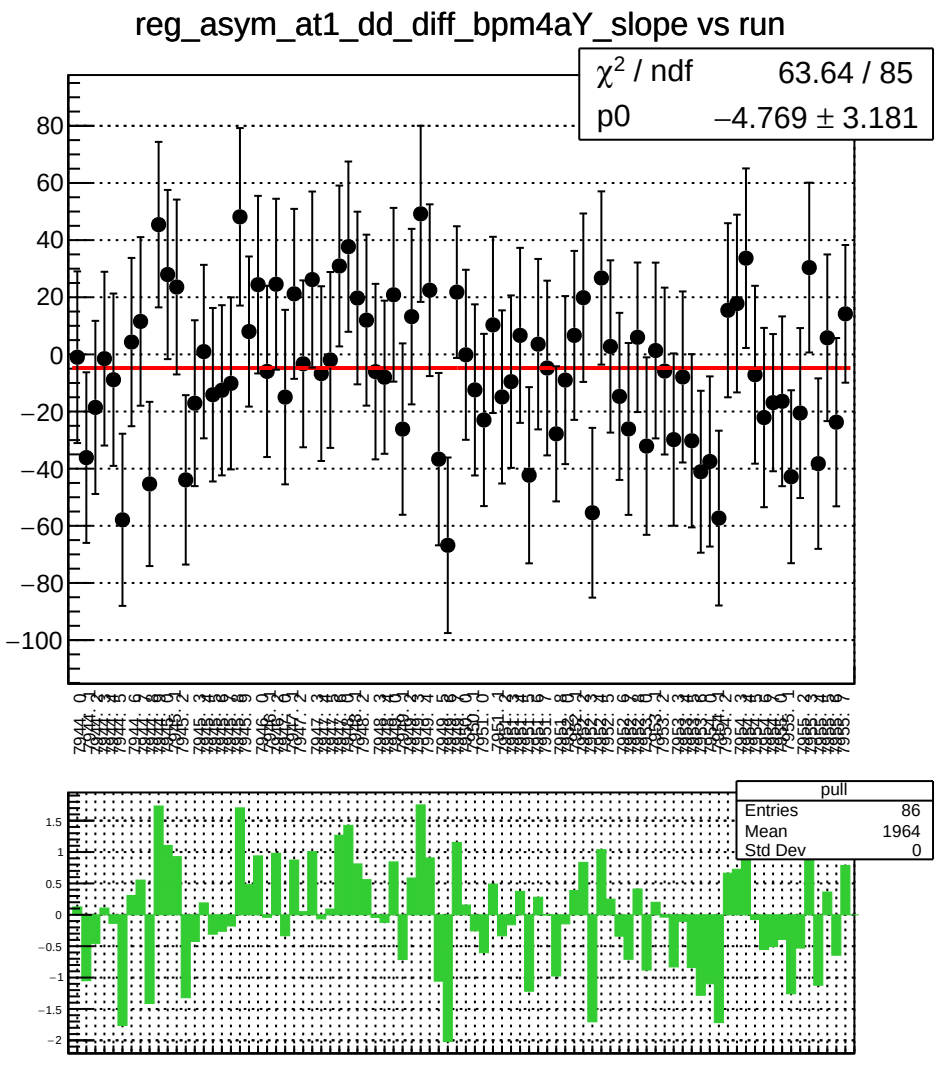

pull1D
Entries 86
Mean 0.005692
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

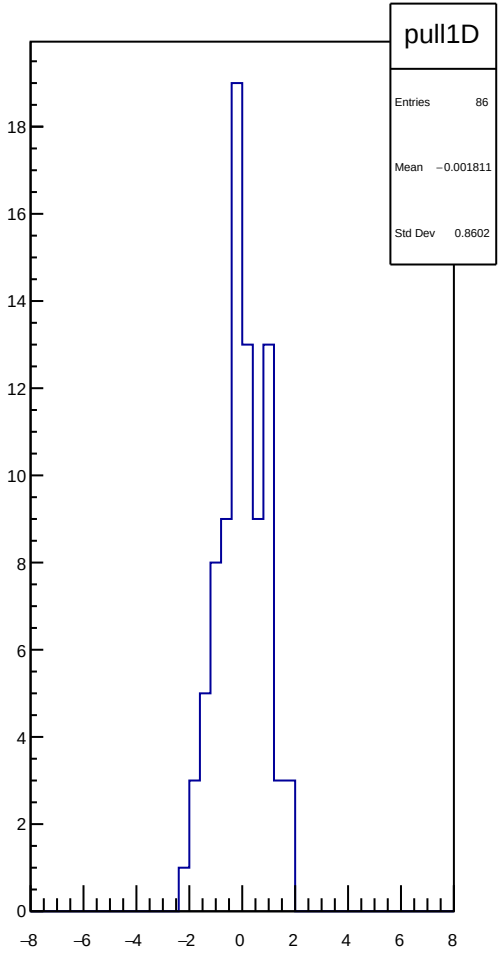

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 214.2 / 85
p0 −28.44 ± 0.1053
pull
Entries 86
Mean 1217
Std Dev 0

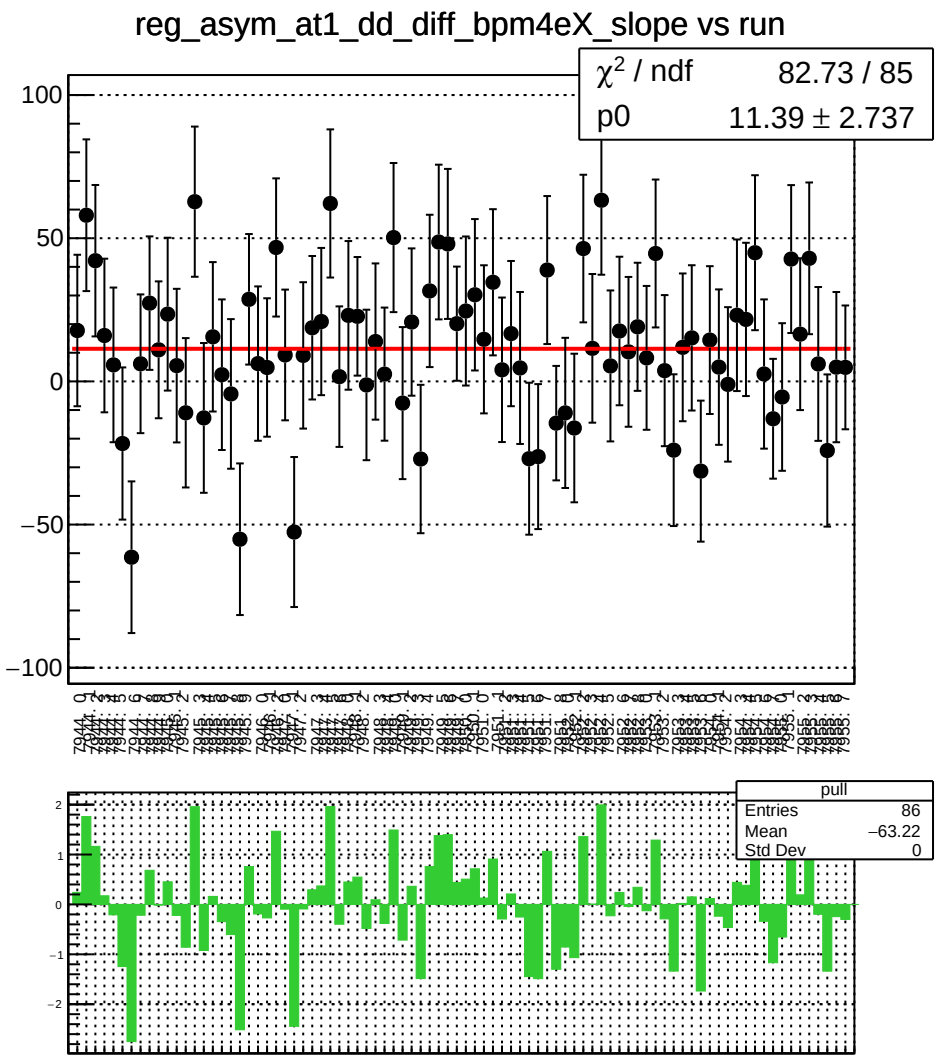

pull1D
Entries 86
Mean −0.006043
Std Dev 1.578

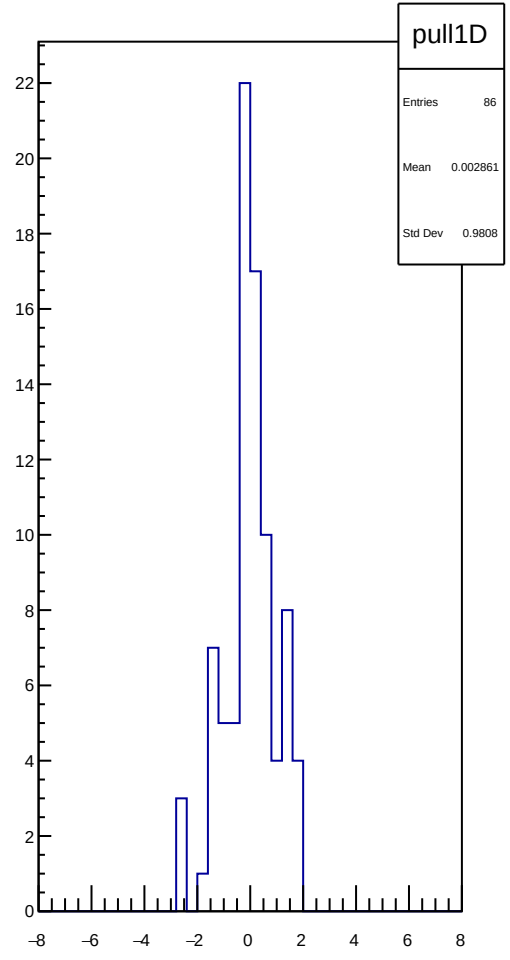

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 82.59 / 85
p0 36.29 ± 3.081
150
100
50
0
−50
pull
Entries 86
Mean −23.51
Std Dev 0
2
1
0
−1
−2

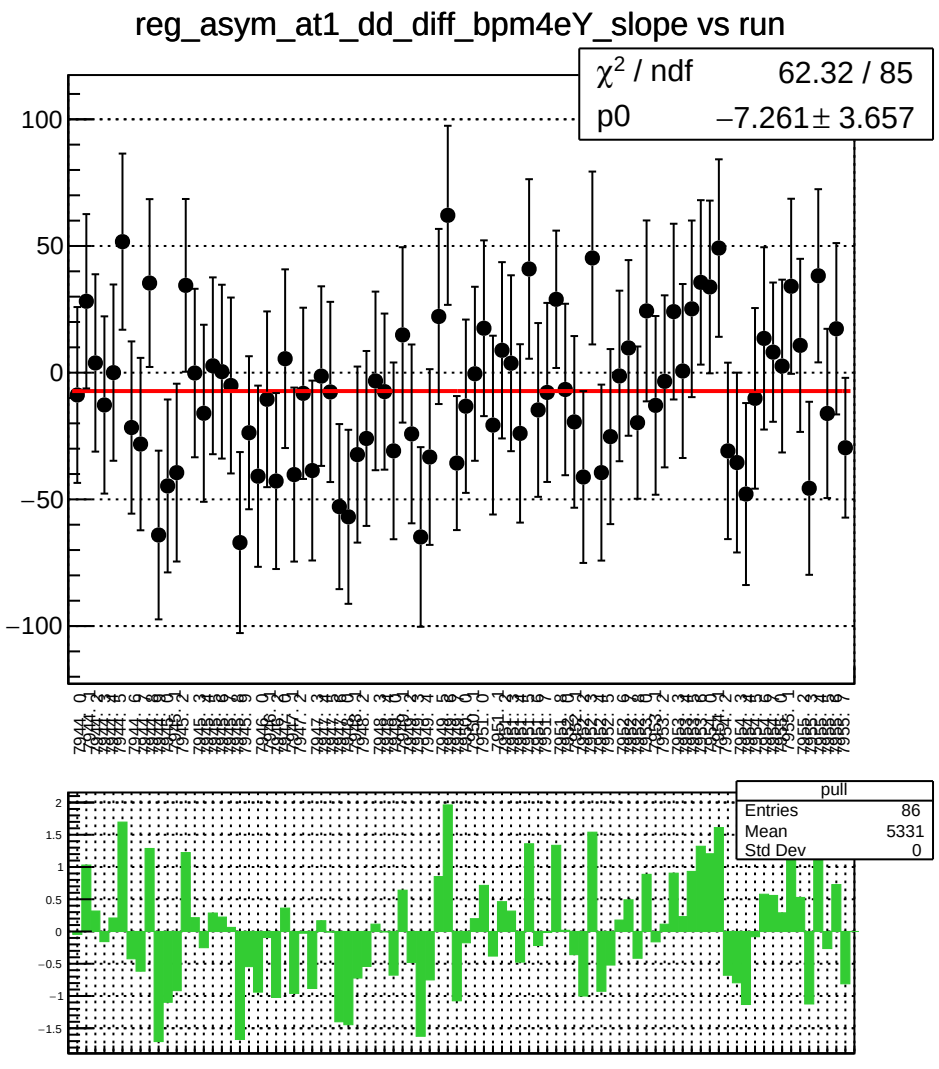

pull1D
Entries 86
Mean −0.003059
Std Dev 0.9799
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

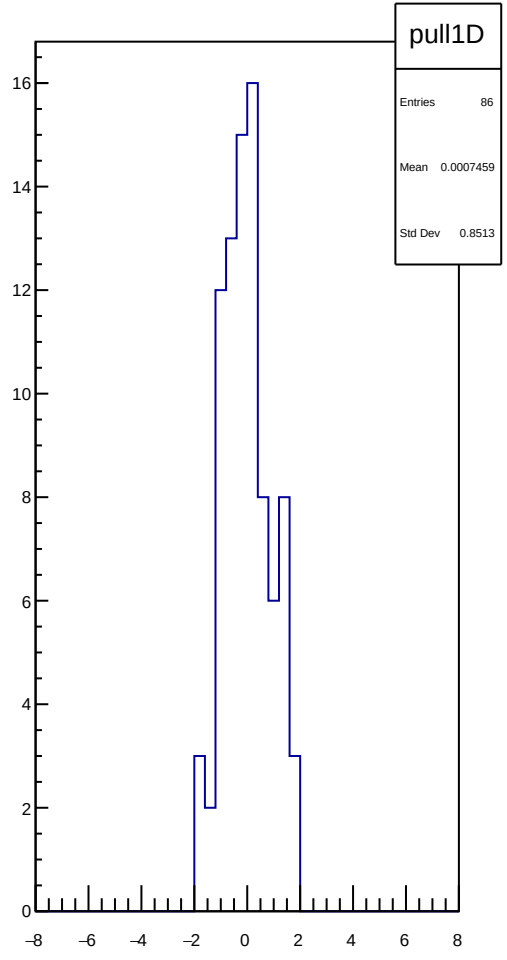

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.64 / 85
p0 −4.769 ± 3.181
pull
Entries 86
Mean 1964
Std Dev 0

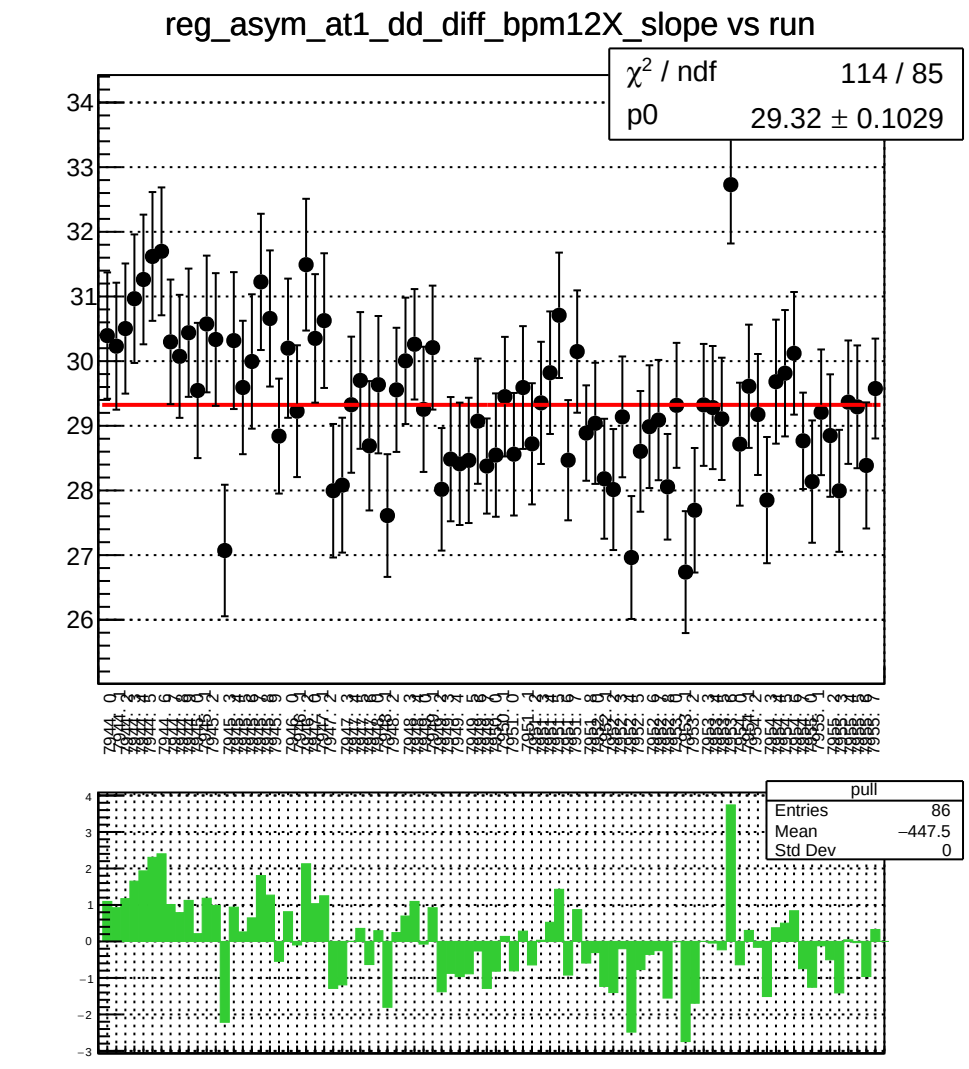

pull1D
Entries 86
Mean −0.001811
Std Dev 0.8602

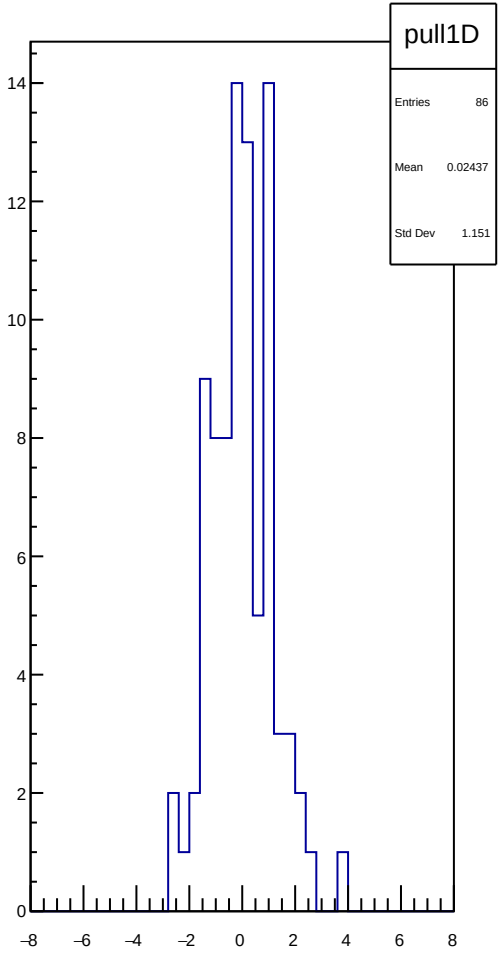

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 82.73 / 85
p0 11.39 ± 2.737
100
50
0
−50
−100
pull
Entries 86
Mean −63.22
Std Dev 0
2
1
0
−1
−2

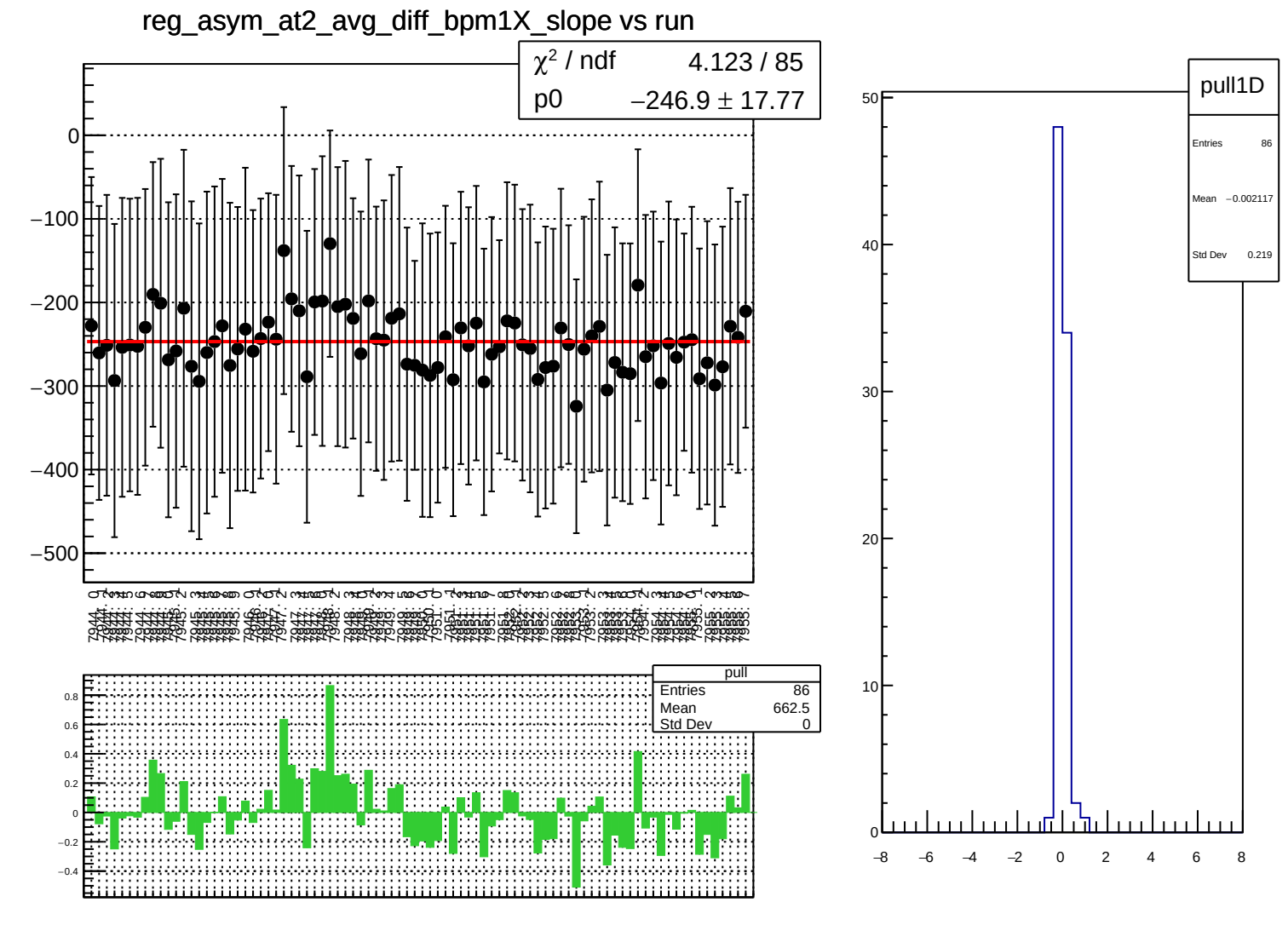

pull1D
Entries 86
Mean 0.002861
Std Dev 0.9808
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

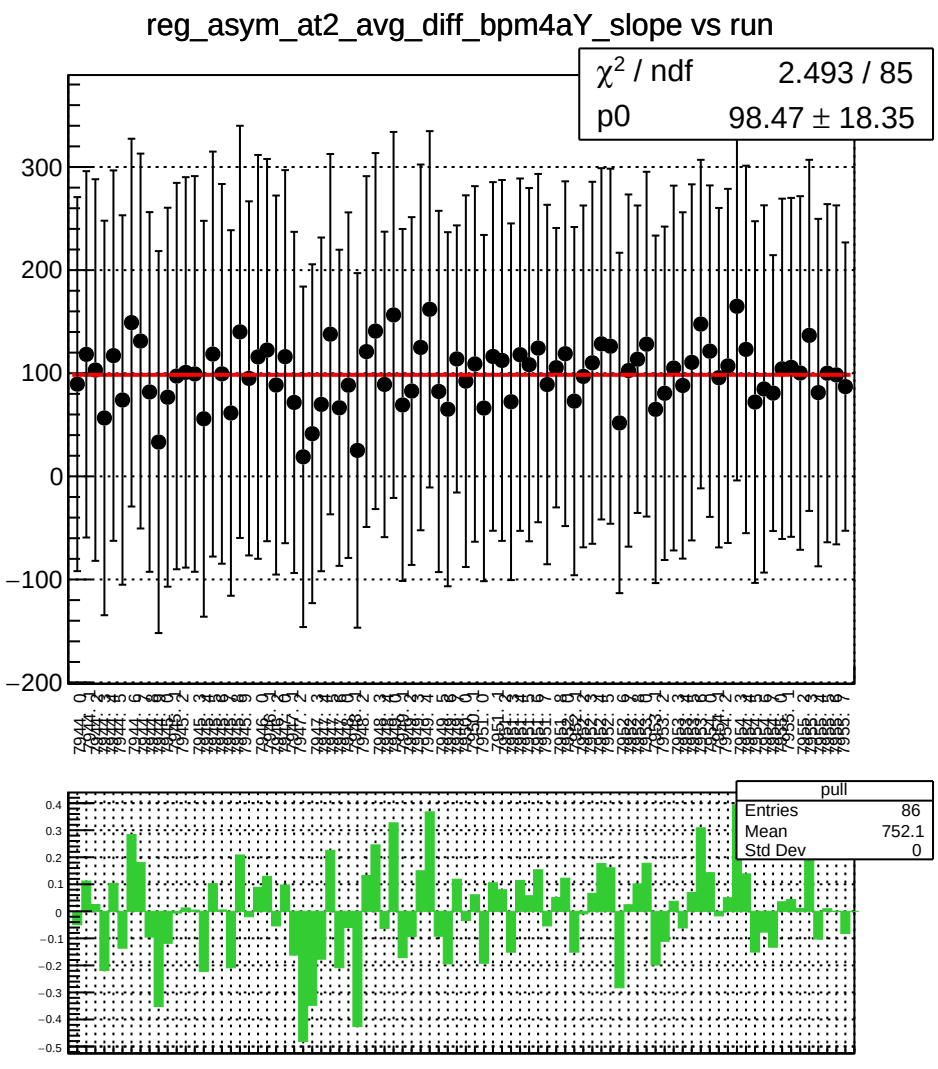

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.32 / 85
p0 −7.261 ± 3.657
100
50
0
−50
−100
pull
Entries 86
Mean 5331
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

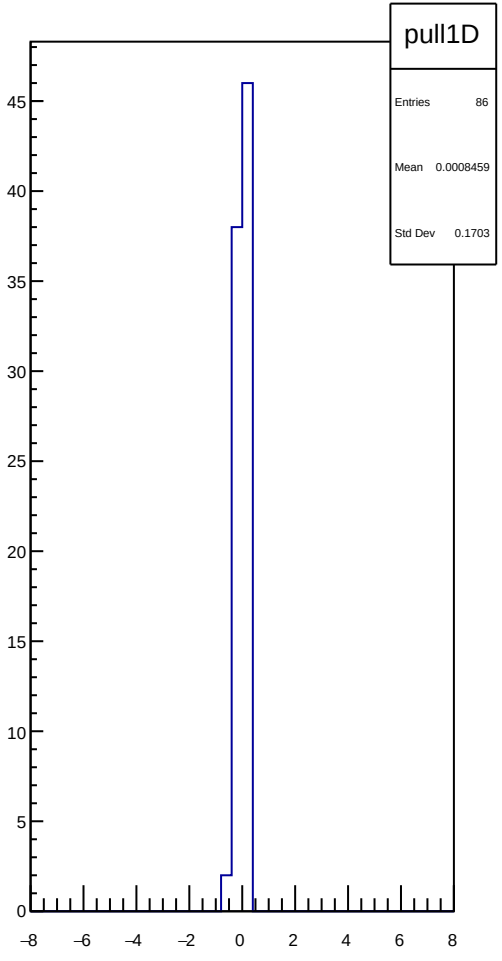

pull1D
Entries 86
Mean 0.0007459
Std Dev 0.8513
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

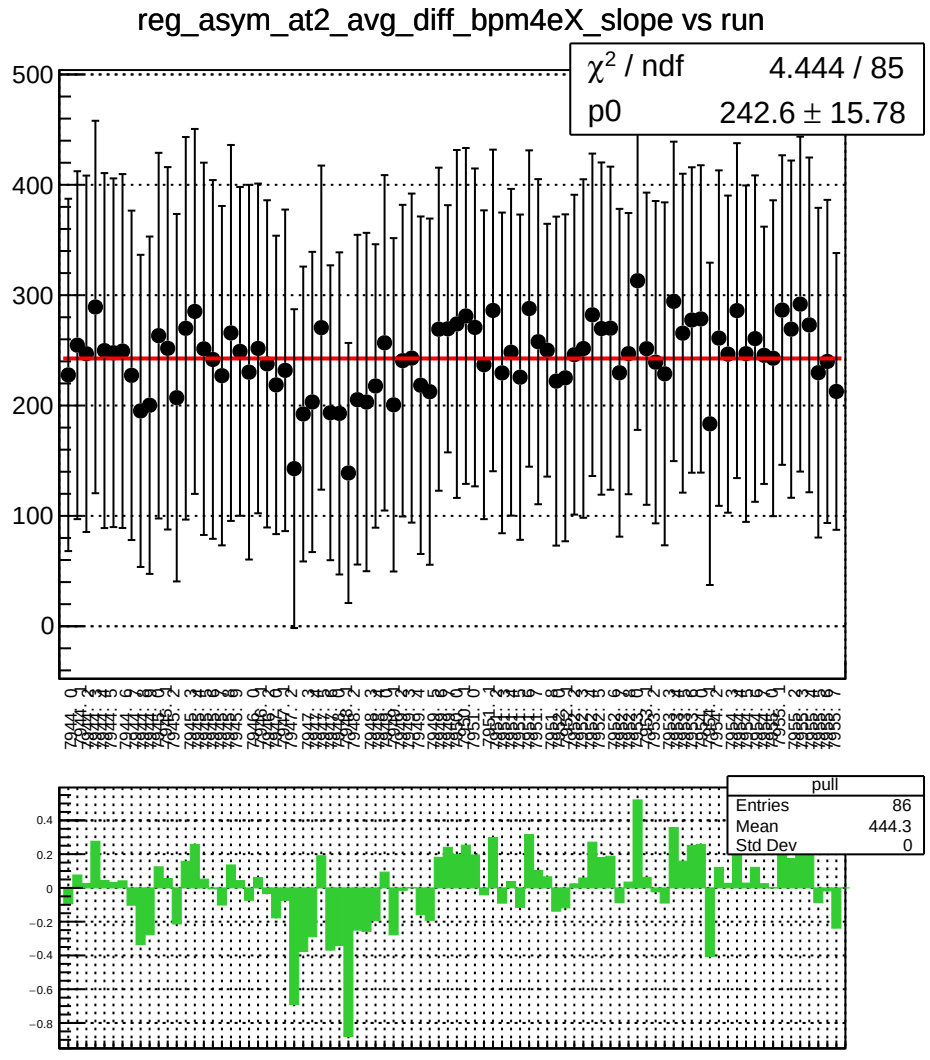

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 114 / 85
p0 29.32 ± 0.1029
pull
Entries 86
Mean −447.5
Std Dev 0

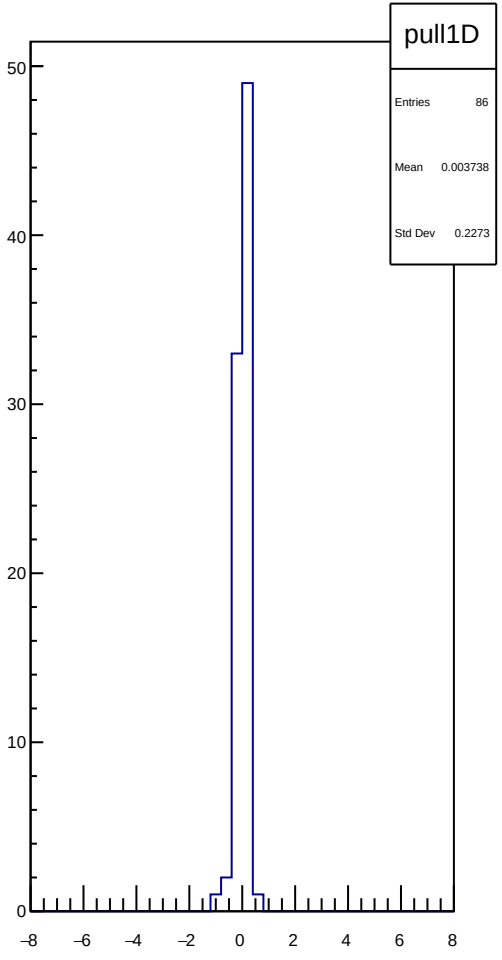

pull1D
Entries 86
Mean 0.02437
Std Dev 1.151

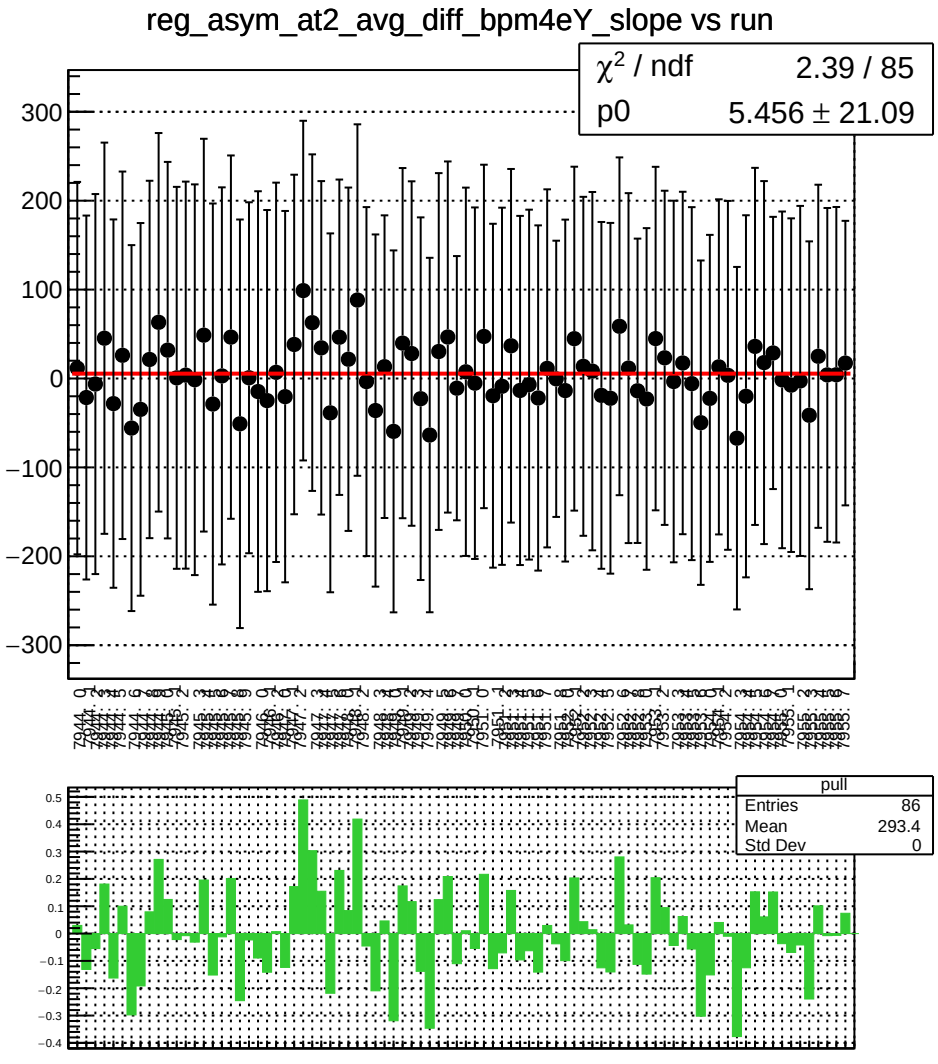

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.123 / 85
p0 −246.9 ± 17.77
pull
Entries 86
Mean 662.5
Std Dev 0
pull1D
Entries 86
Mean −0.002117
Std Dev 0.219

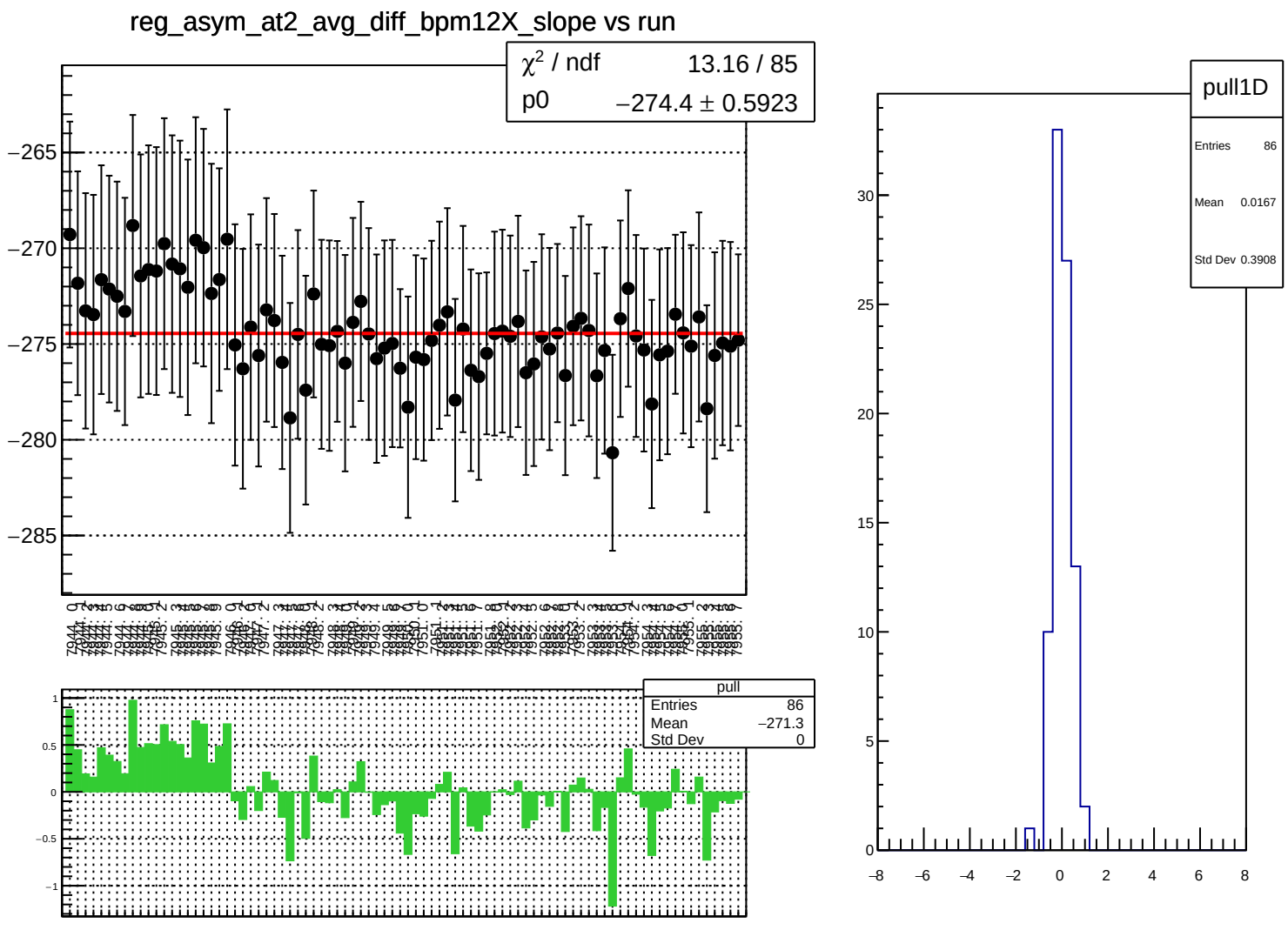

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.493 / 85
p0 98.47 ± 18.35
pull
Entries 86
Mean 752.1
Std Dev 0

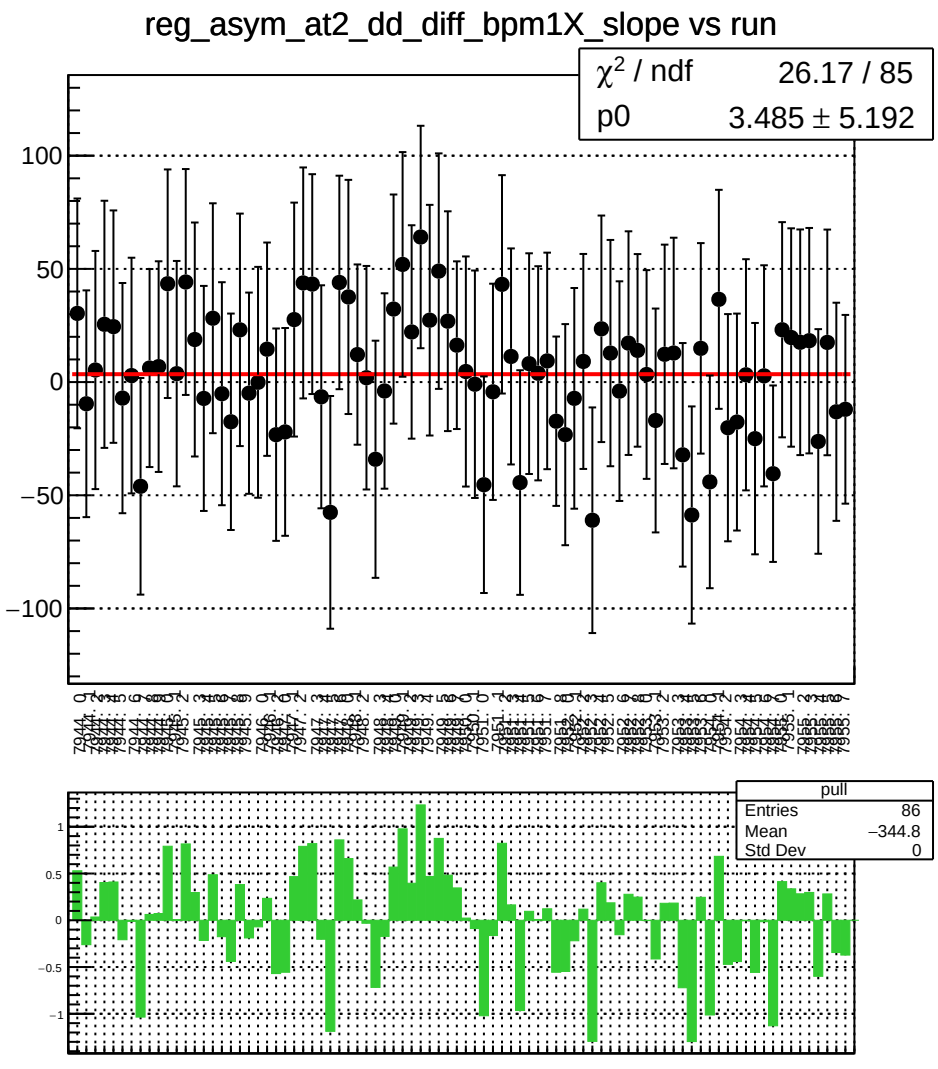

pull1D
Entries 86
Mean 0.0008459
Std Dev 0.1703

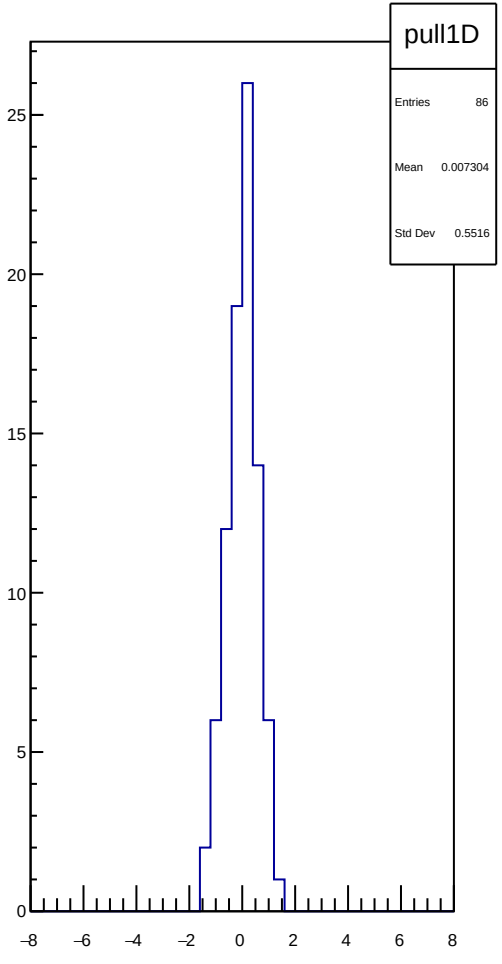

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.444 / 85
p0 242.6 ± 15.78
pull
Entries 86
Mean 444.3
Std Dev 0

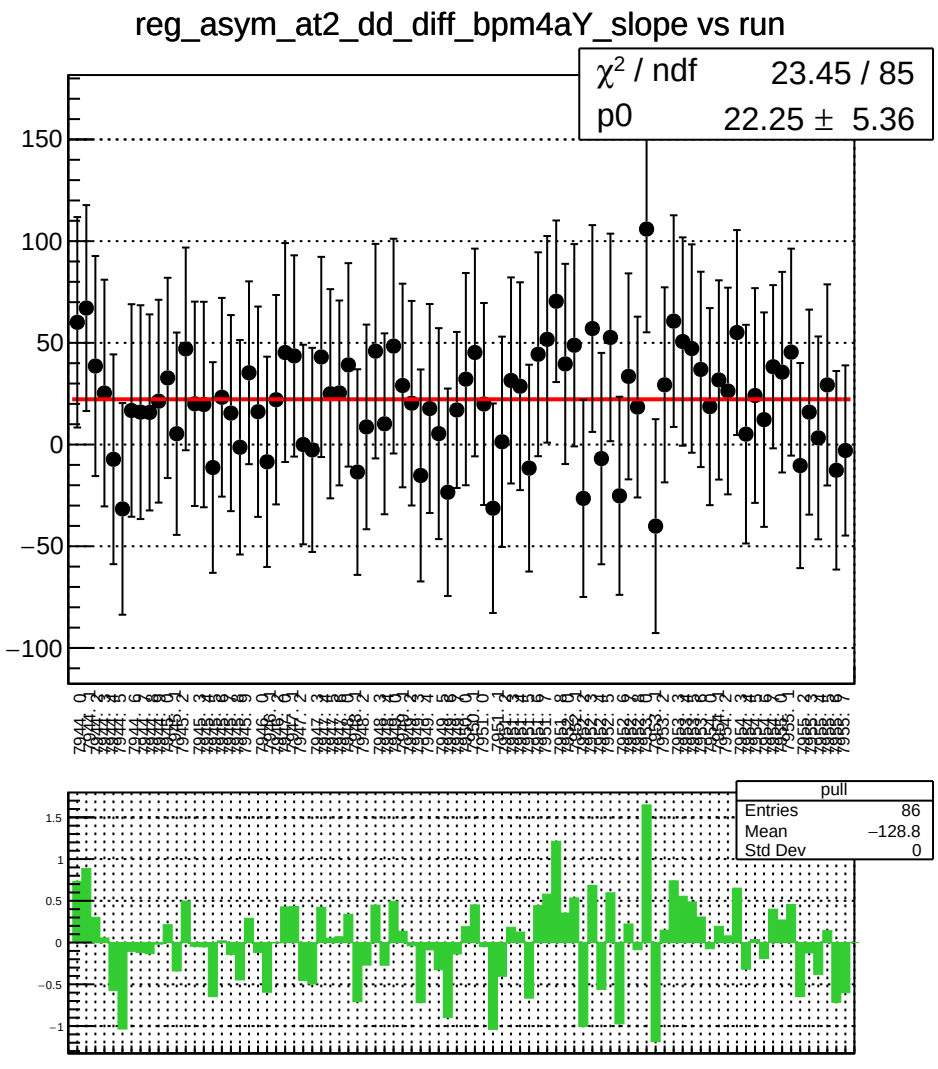

pull1D
Entries 86
Mean 0.003738
Std Dev 0.2273

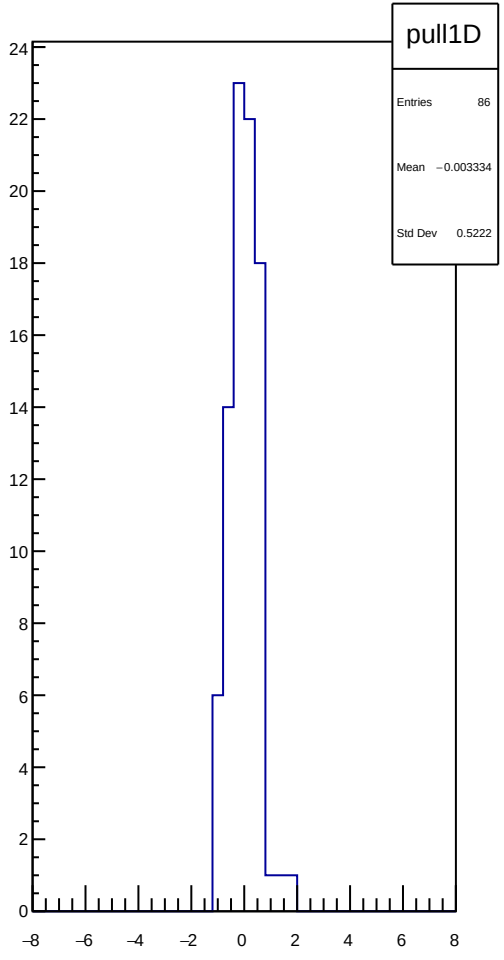

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.39 / 85
p0 5.456 ± 21.09
pull
Entries 86
Mean 293.4
Std Dev 0
pull1D
Entries 86
Mean −0.001325
Std Dev 0.1667

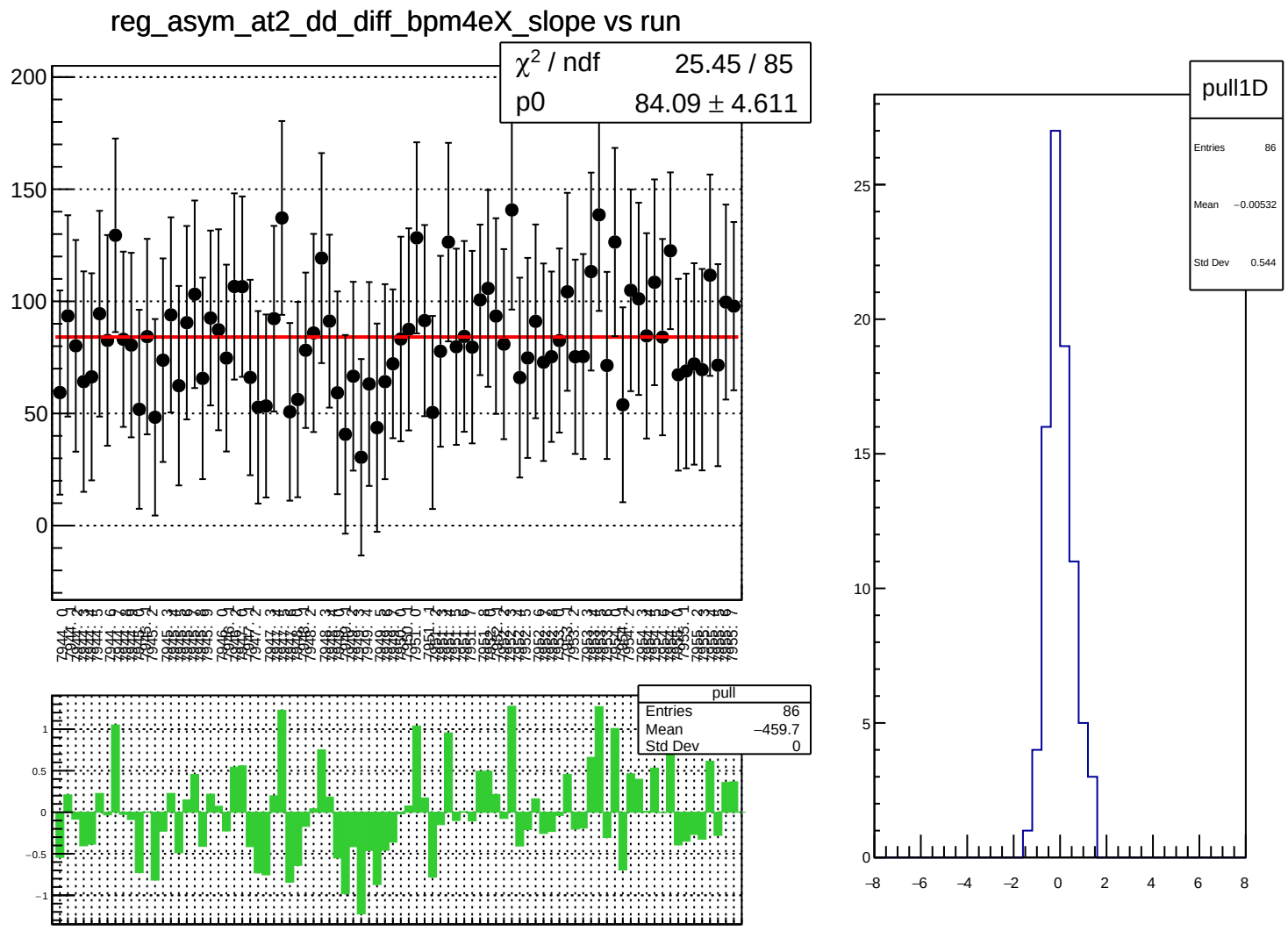

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.16 / 85
p0 −274.4 ± 0.5923
−265
−270
−275
−280
−285
pull
Entries 86
Mean −271.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean 0.0167
Std Dev 0.3908
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

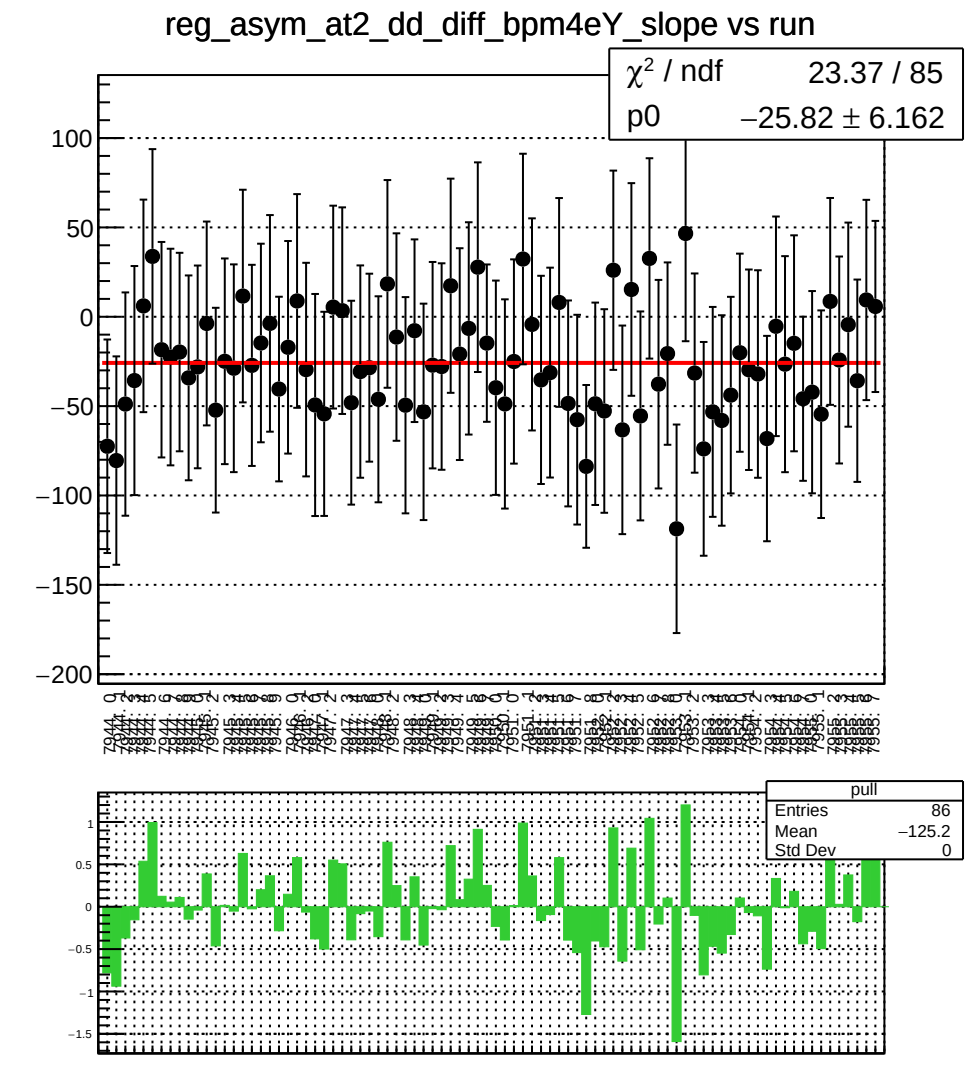

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 26.17 / 85
p0 3.485 ± 5.192
pull
Entries 86
Mean −344.8
Std Dev 0

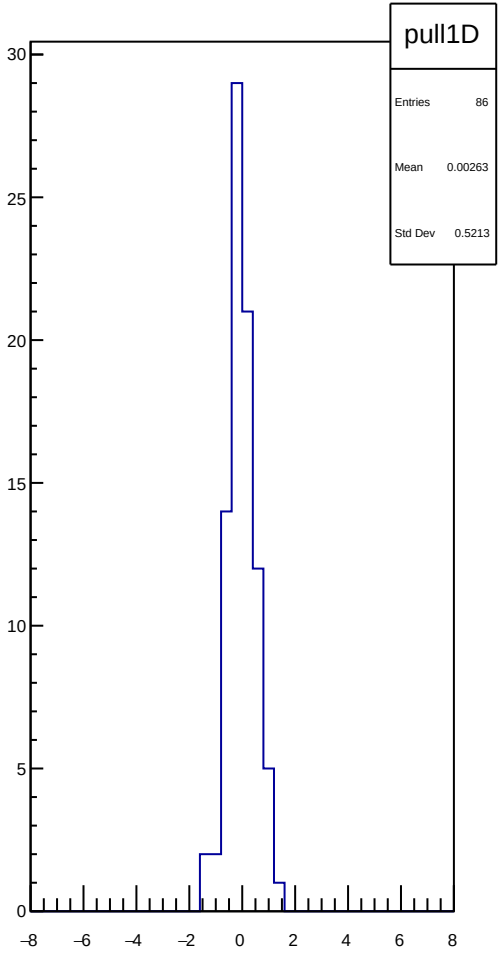

pull1D
Entries 86
Mean 0.007304
Std Dev 0.5516

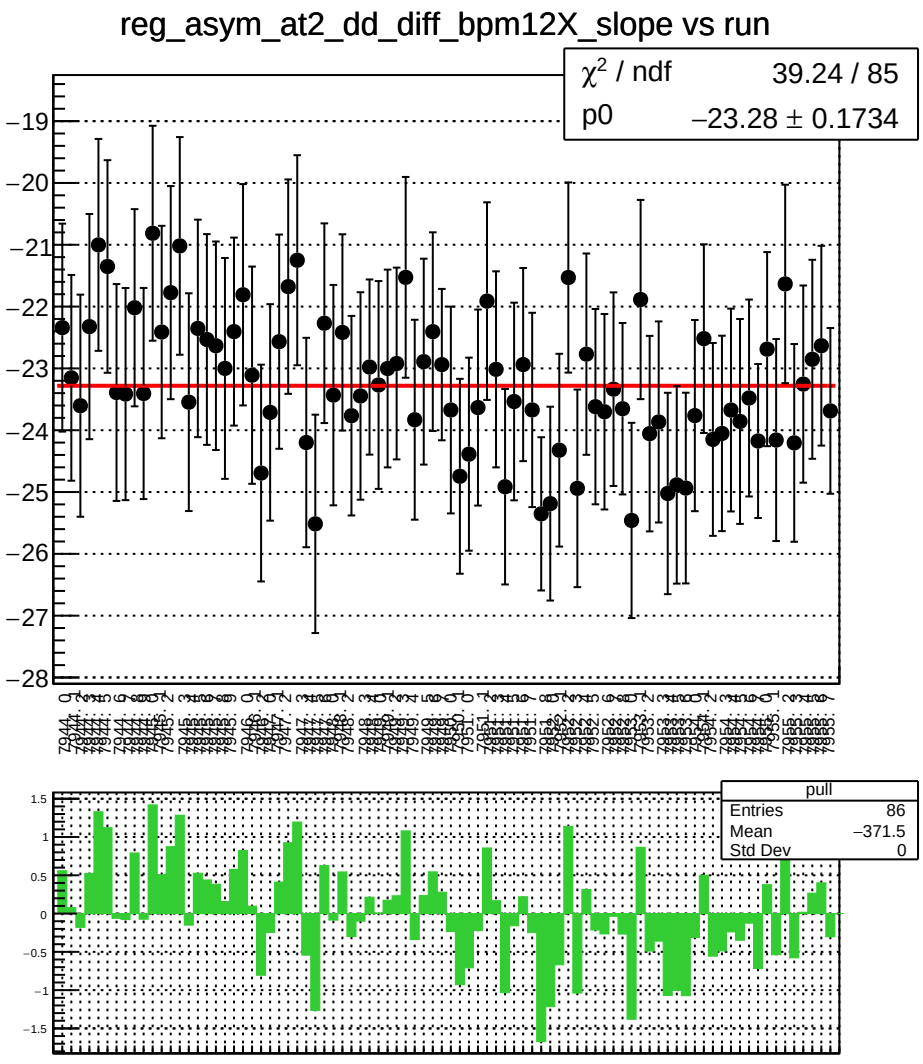

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.45 / 85
p0 22.25 ± 5.36
150
100
50
0
−50
−100
pull
Entries 86
Mean −128.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

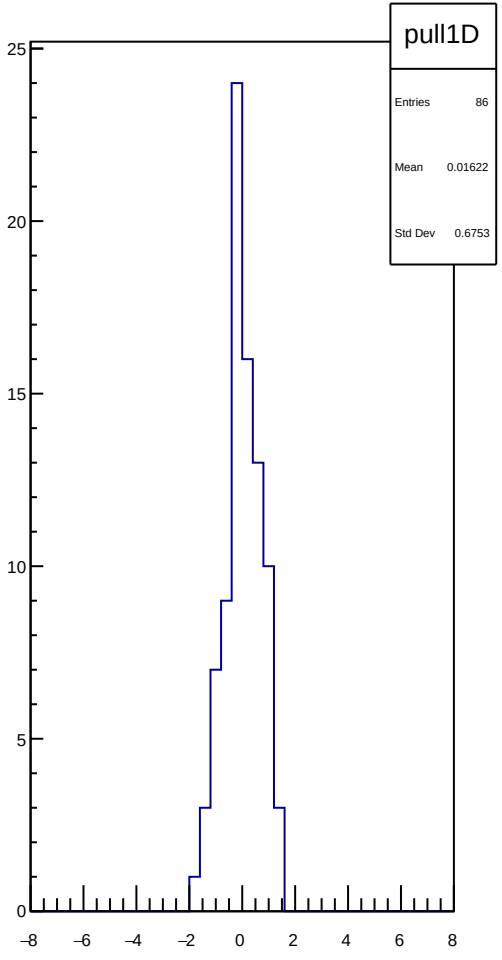

pull1D
Entries 86
Mean −0.003334
Std Dev 0.5222
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

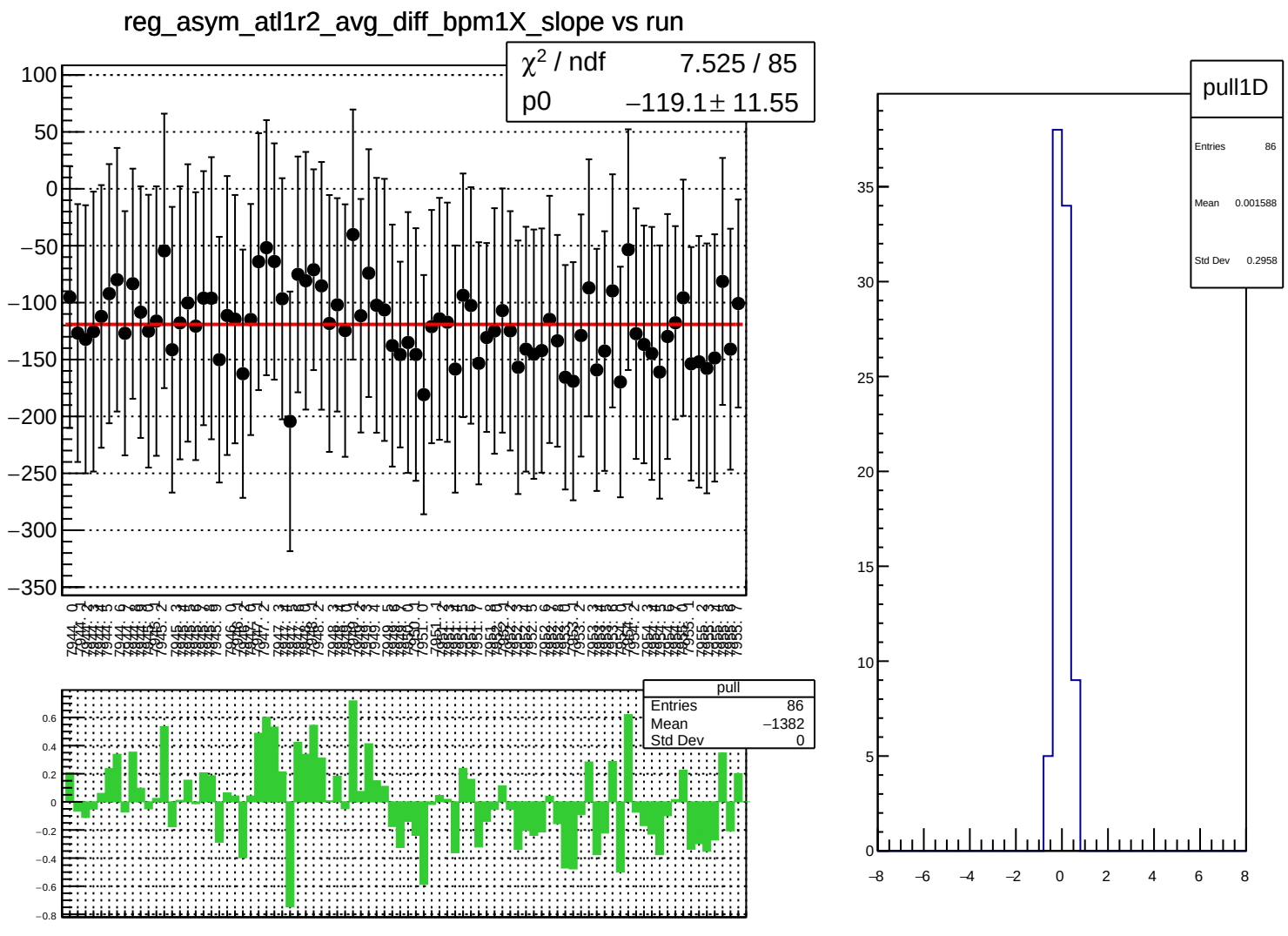

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.45 / 85
p0 84.09 ± 4.611
200
150
100
50
0
pull
Entries 86
Mean −459.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.00532
Std Dev 0.544
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

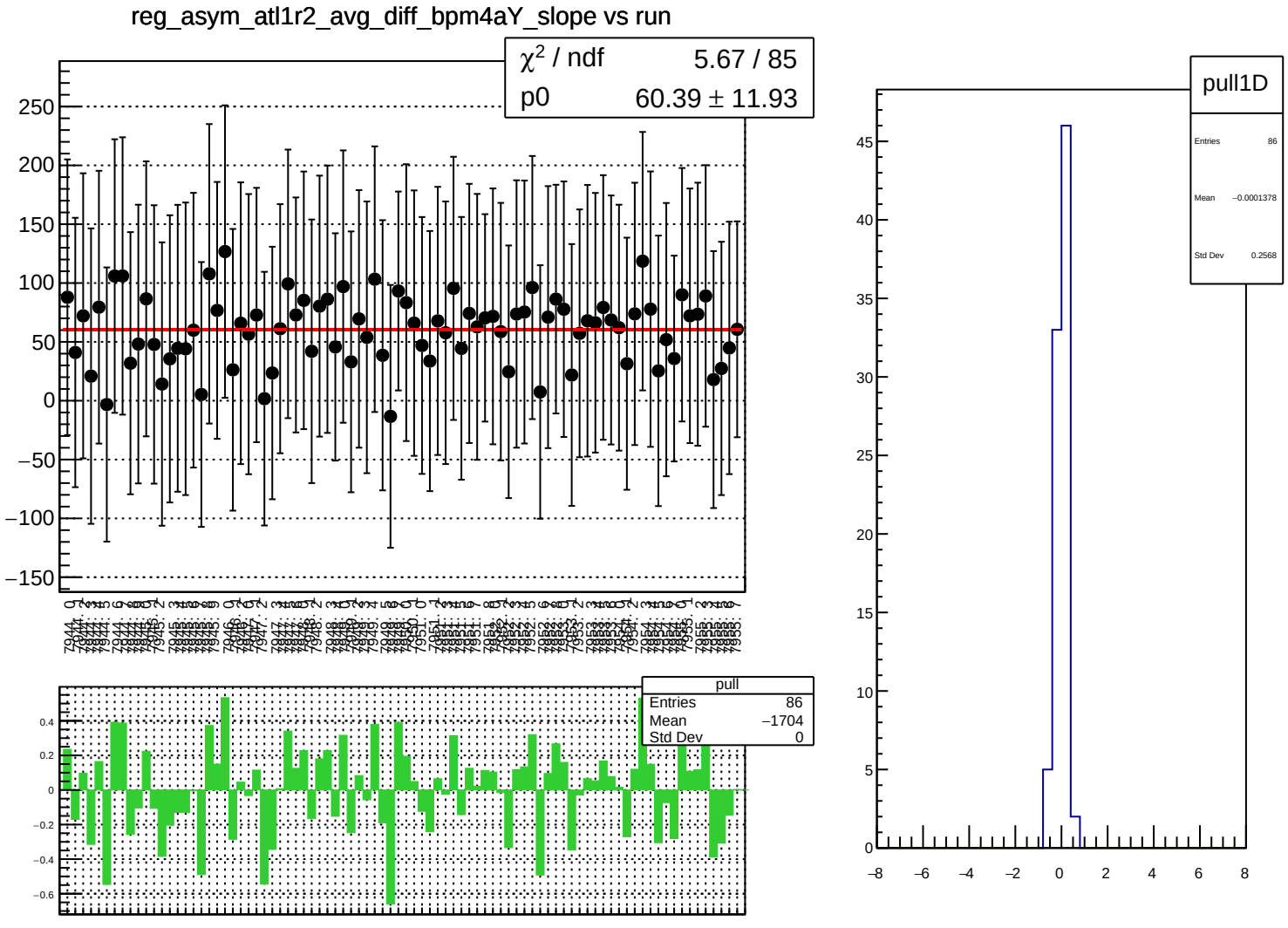

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.37 / 85
p0 −25.82 ± 6.162
pull
Entries 86
Mean −125.2
Std Dev 0

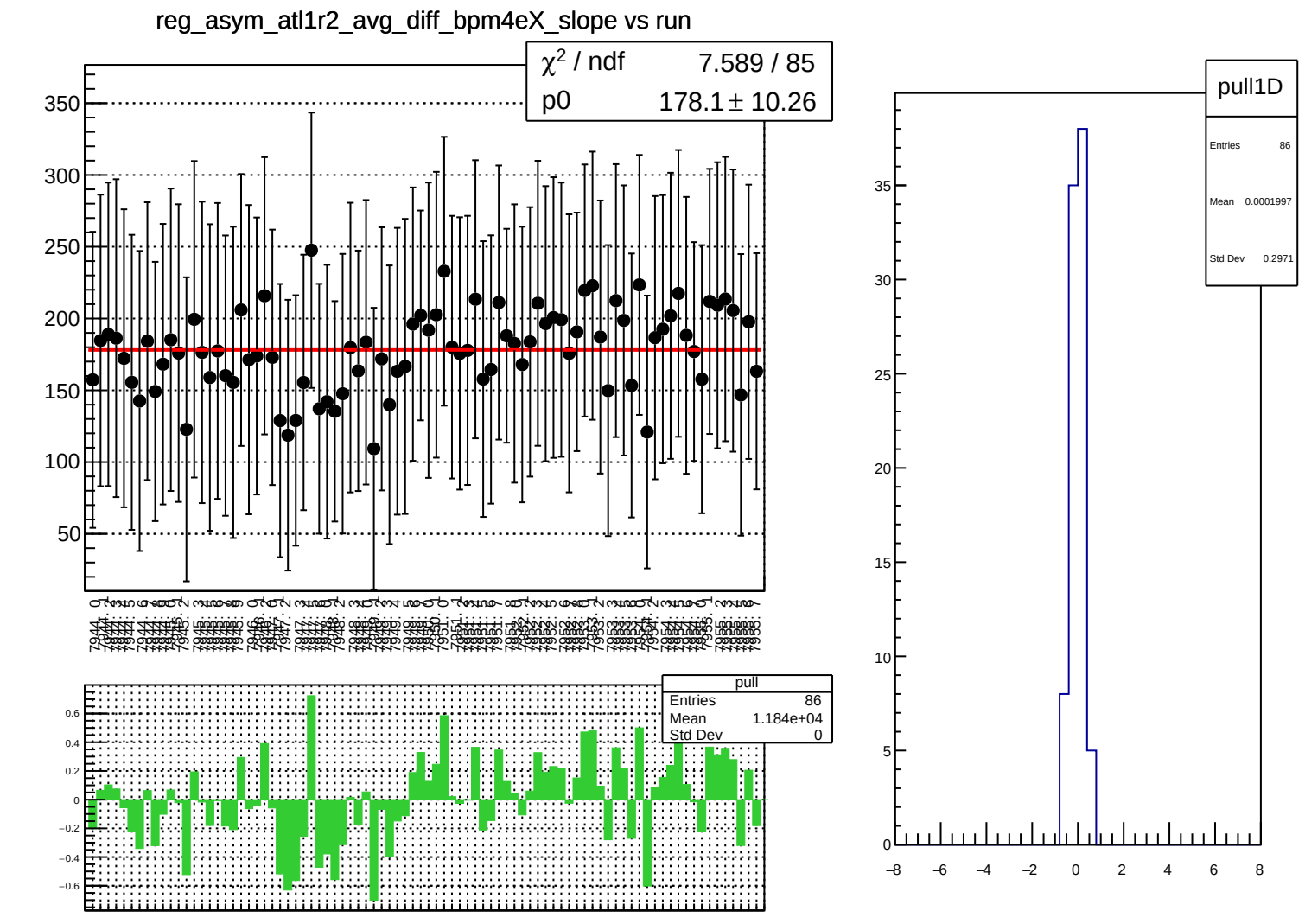

pull1D
Entries 86
Mean 0.00263
Std Dev 0.5213

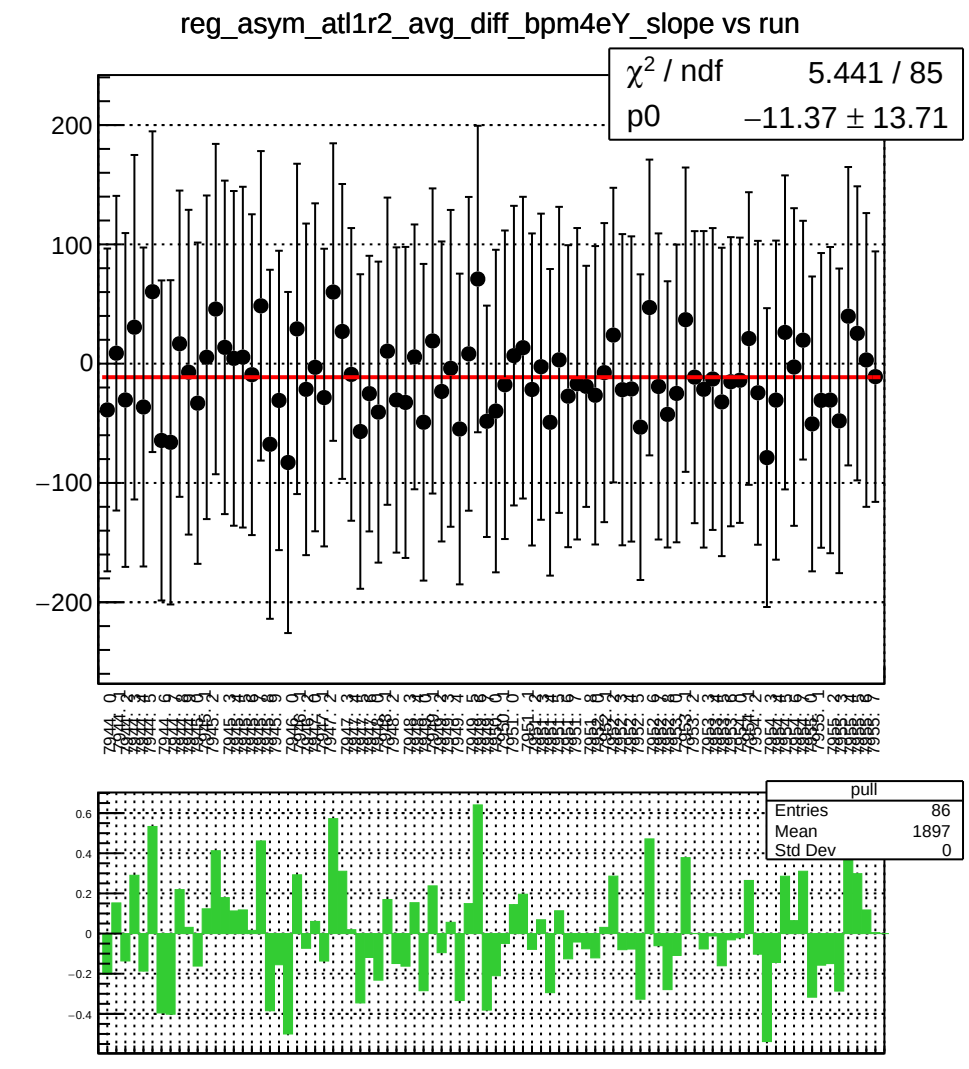

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 39.24 / 85
p0 −23.28 ± 0.1734
pull
Entries 86
Mean −371.5
Std Dev 0

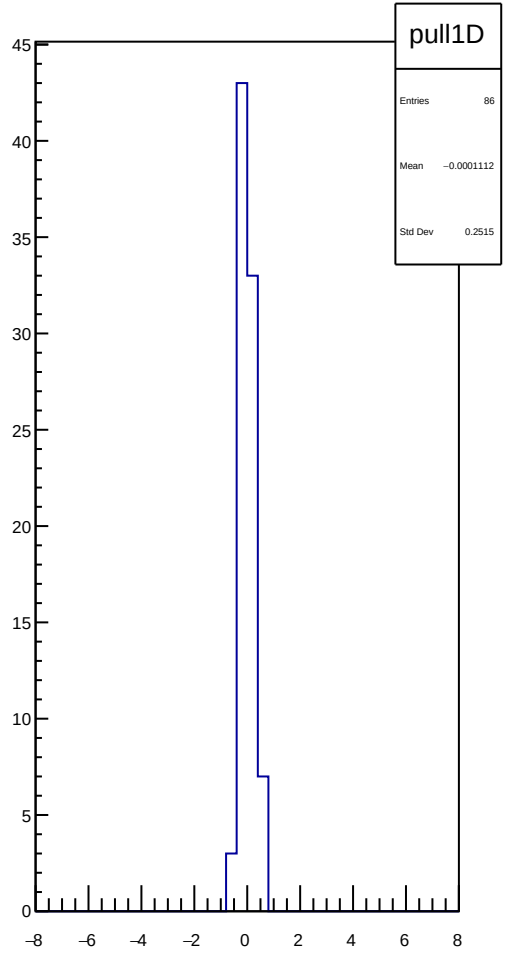

pull1D
Entries 86
Mean 0.01622
Std Dev 0.6753

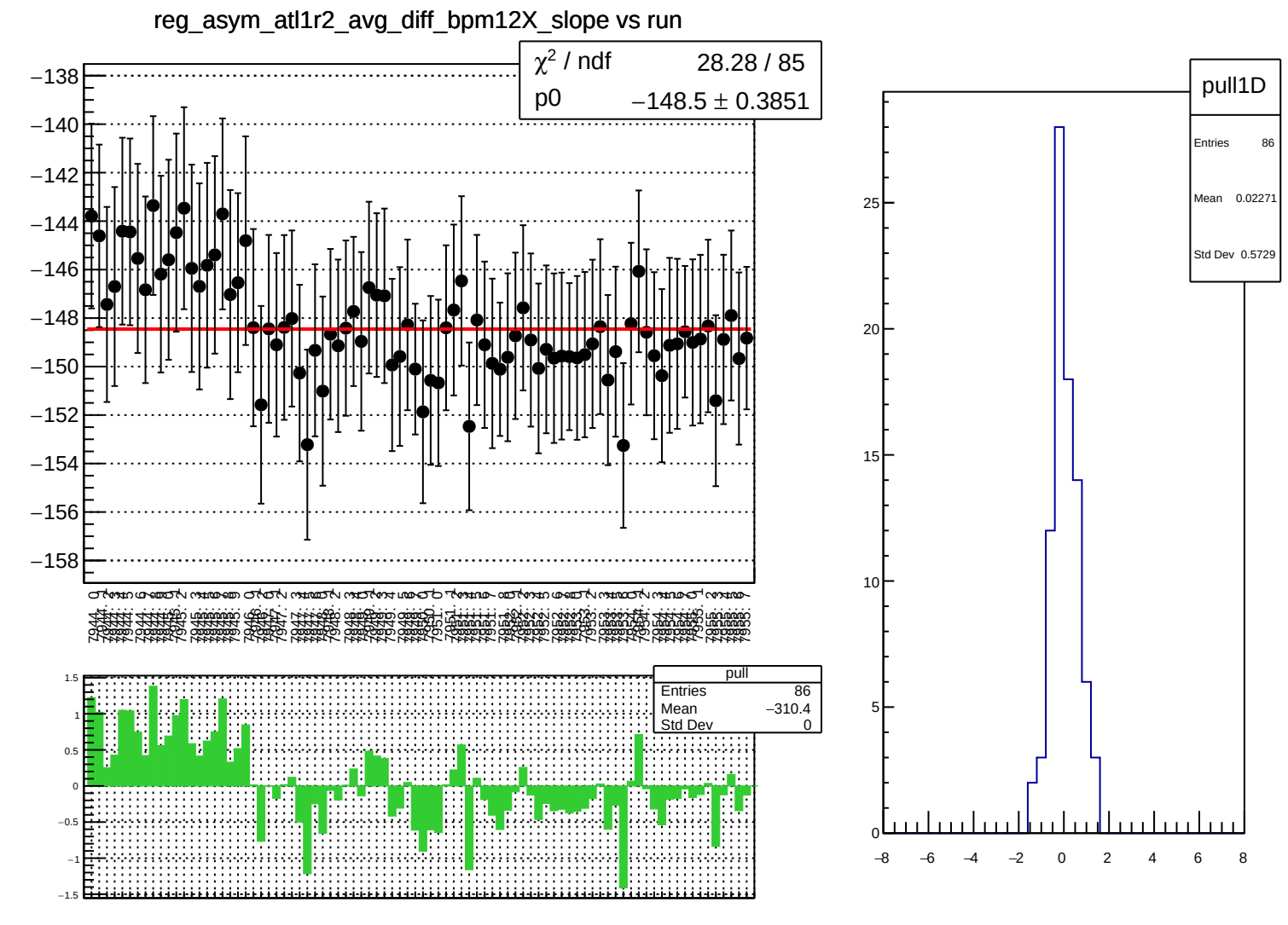

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.525 / 85
p0 −119.1± 11.55
pull
Entries 86
Mean −1382
Std Dev 0
pull1D
Entries 86
Mean 0.001588
Std Dev 0.2958

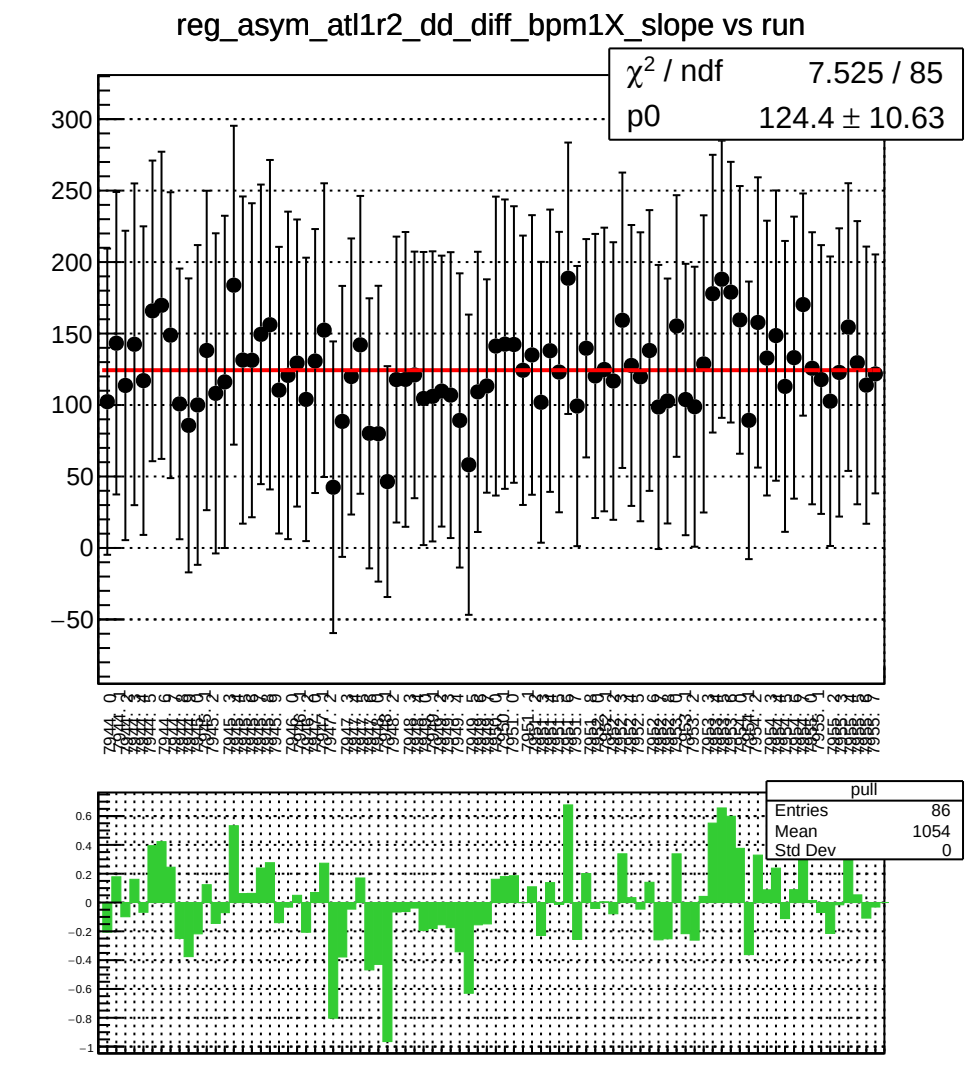

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.67 / 85
p0 60.39 ± 11.93
pull
Entries 86
Mean −1704
Std Dev 0
pull1D
Entries 86
Mean −0.0001378
Std Dev 0.2568

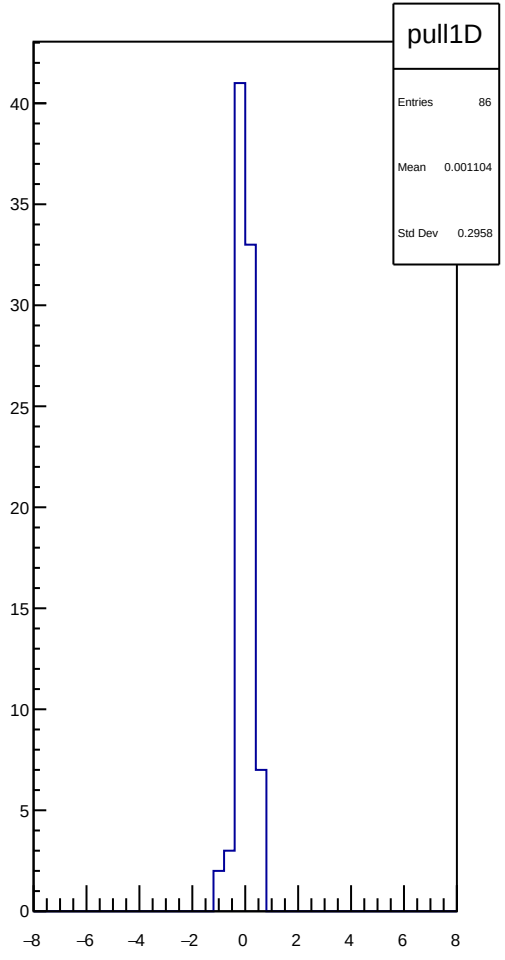

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.589 / 85
p0 178.1 ± 10.26
pull
Entries 86
Mean 1.184e+04
Std Dev 0
pull1D
Entries 86
Mean 0.0001997
Std Dev 0.2971

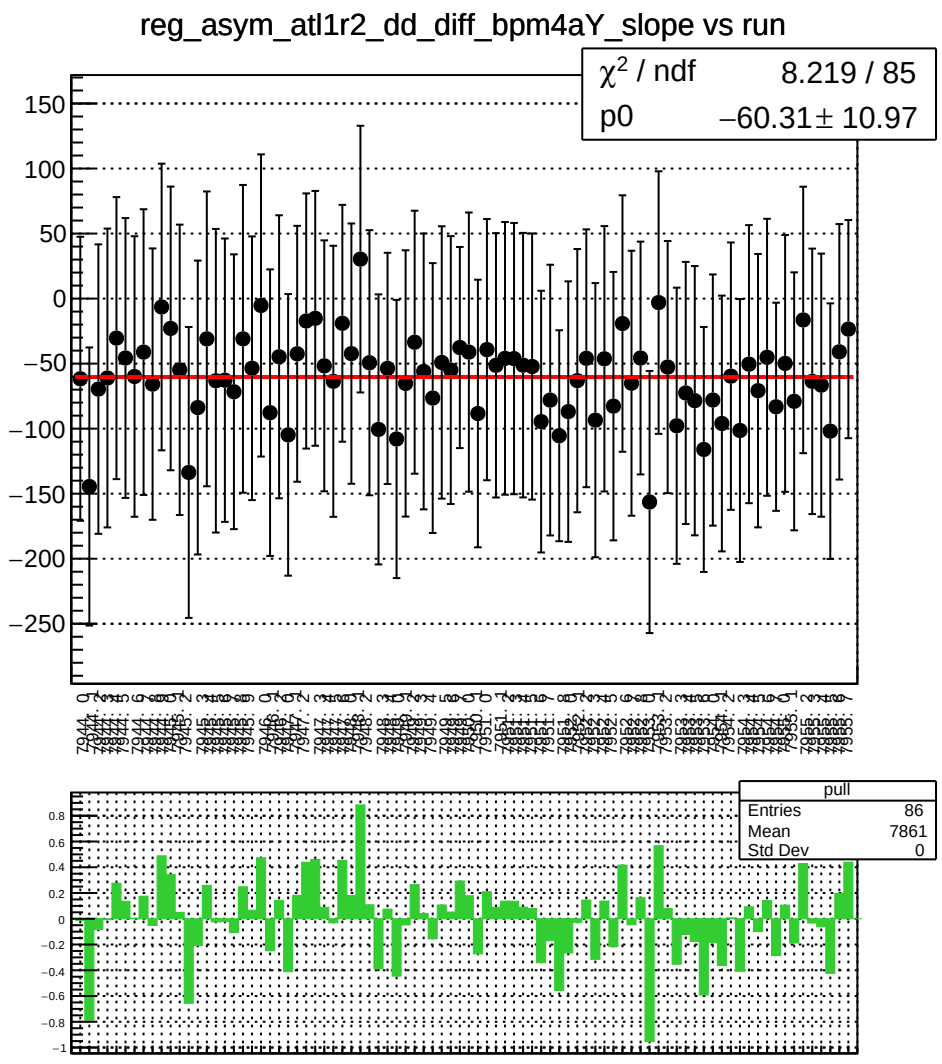

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.441 / 85
p0 −11.37 ± 13.71
200
100
0
−100
−200
pull
Entries 86
Mean 1897
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

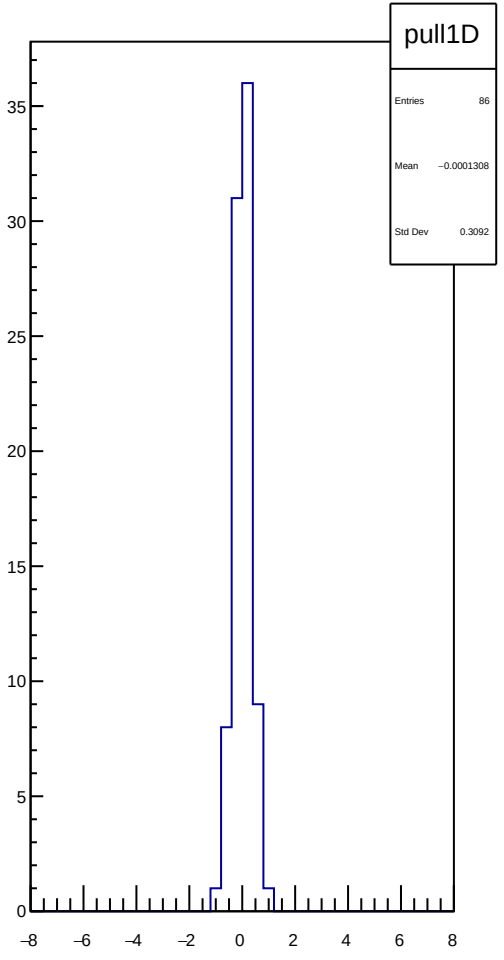

pull1D
Entries 86
Mean −0.0001112
Std Dev 0.2515
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

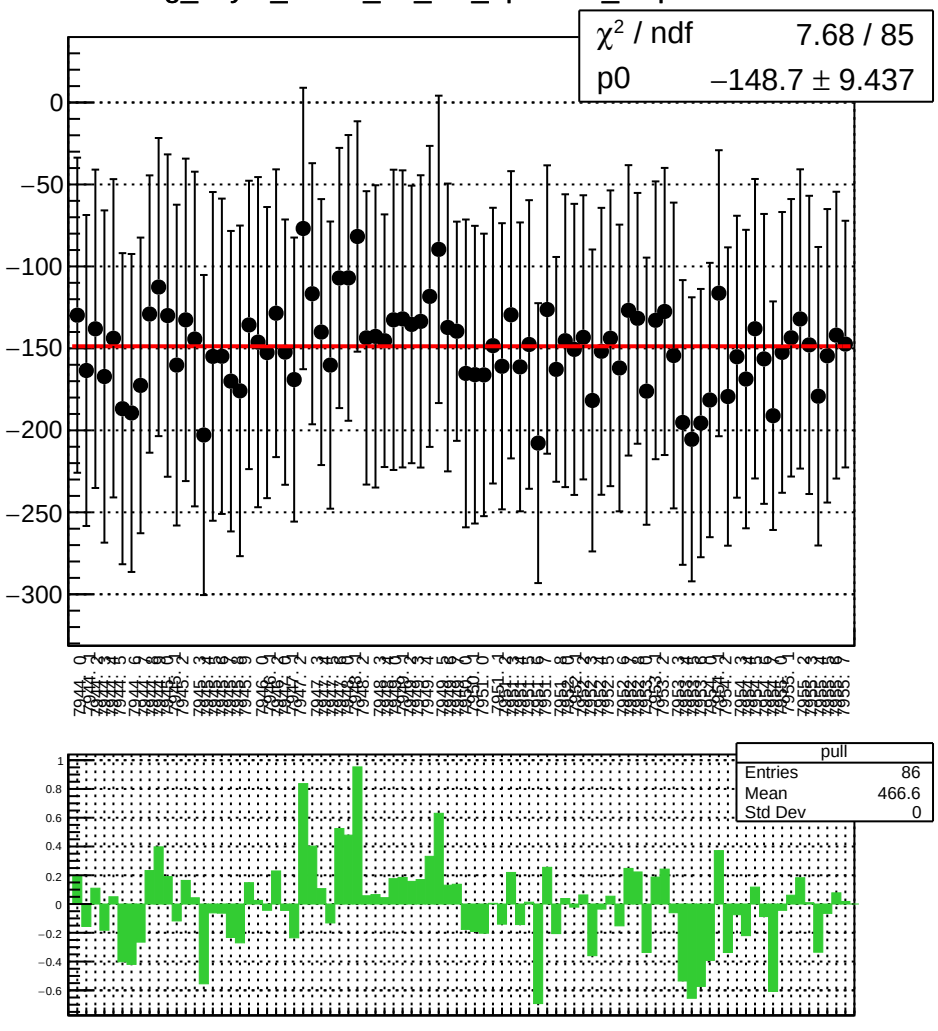

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 28.28 / 85
p0 −148.5 ± 0.3851
pull
Entries 86
Mean −310.4
Std Dev 0
pull1D
Entries 86
Mean 0.02271
Std Dev 0.5729

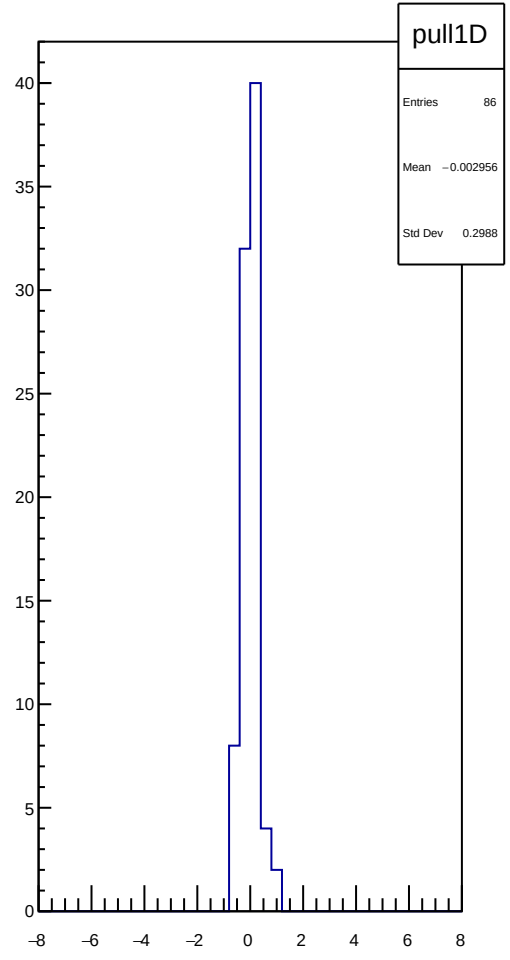

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 7.525 / 85
p0 124.4 ± 10.63
pull
Entries 86
Mean 1054
Std Dev 0

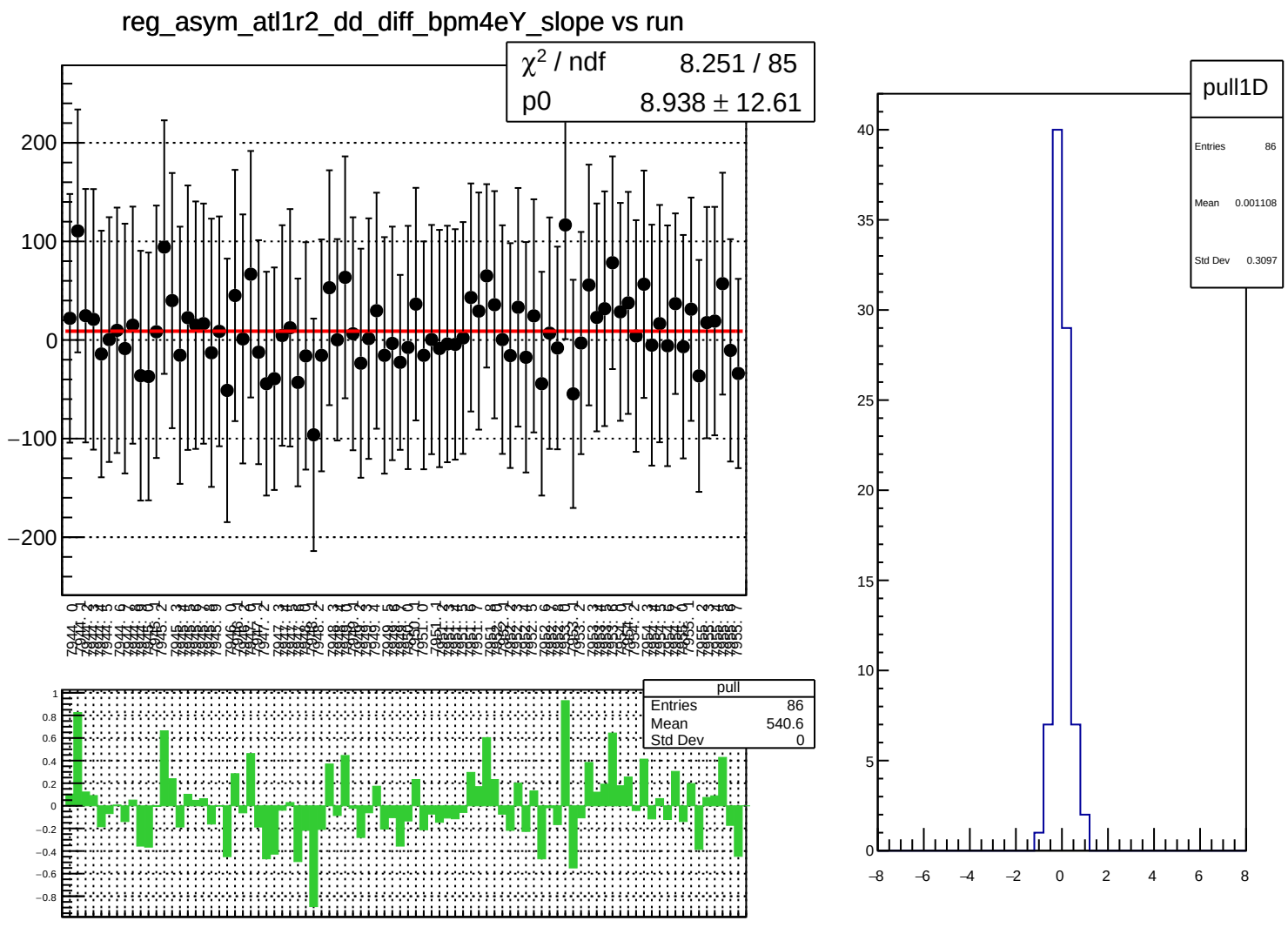

pull1D
Entries 86
Mean 0.001104
Std Dev 0.2958

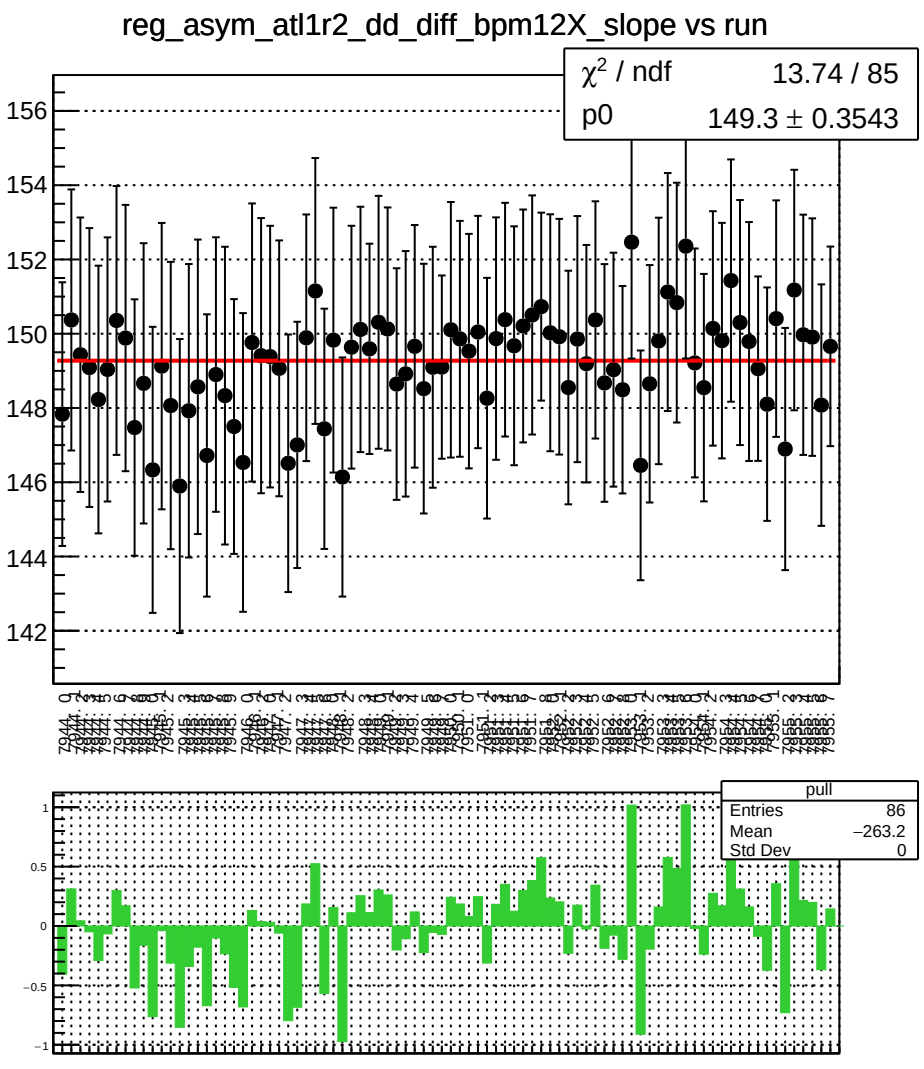

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.219 / 85
p0 −60.31 ± 10.97
pull
Entries 86
Mean 7861
Std Dev 0

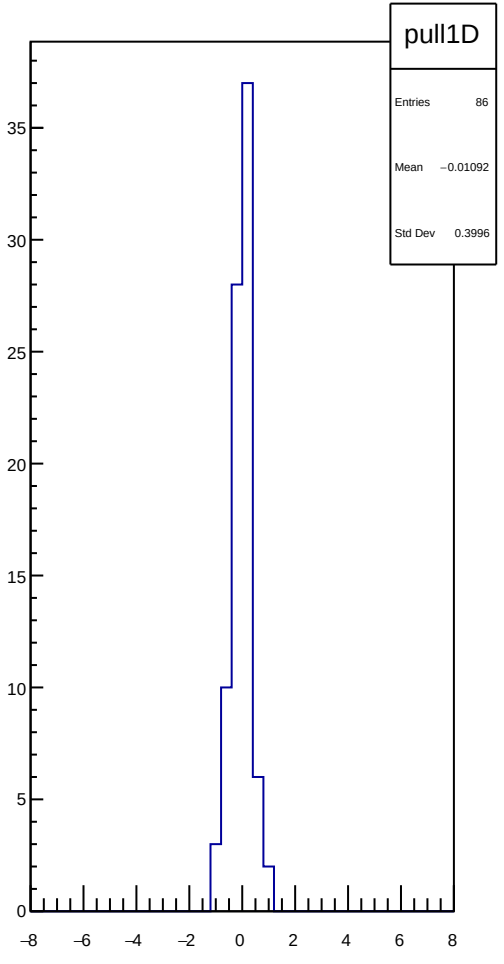

pull1D
Entries 86
Mean −0.0001308
Std Dev 0.3092

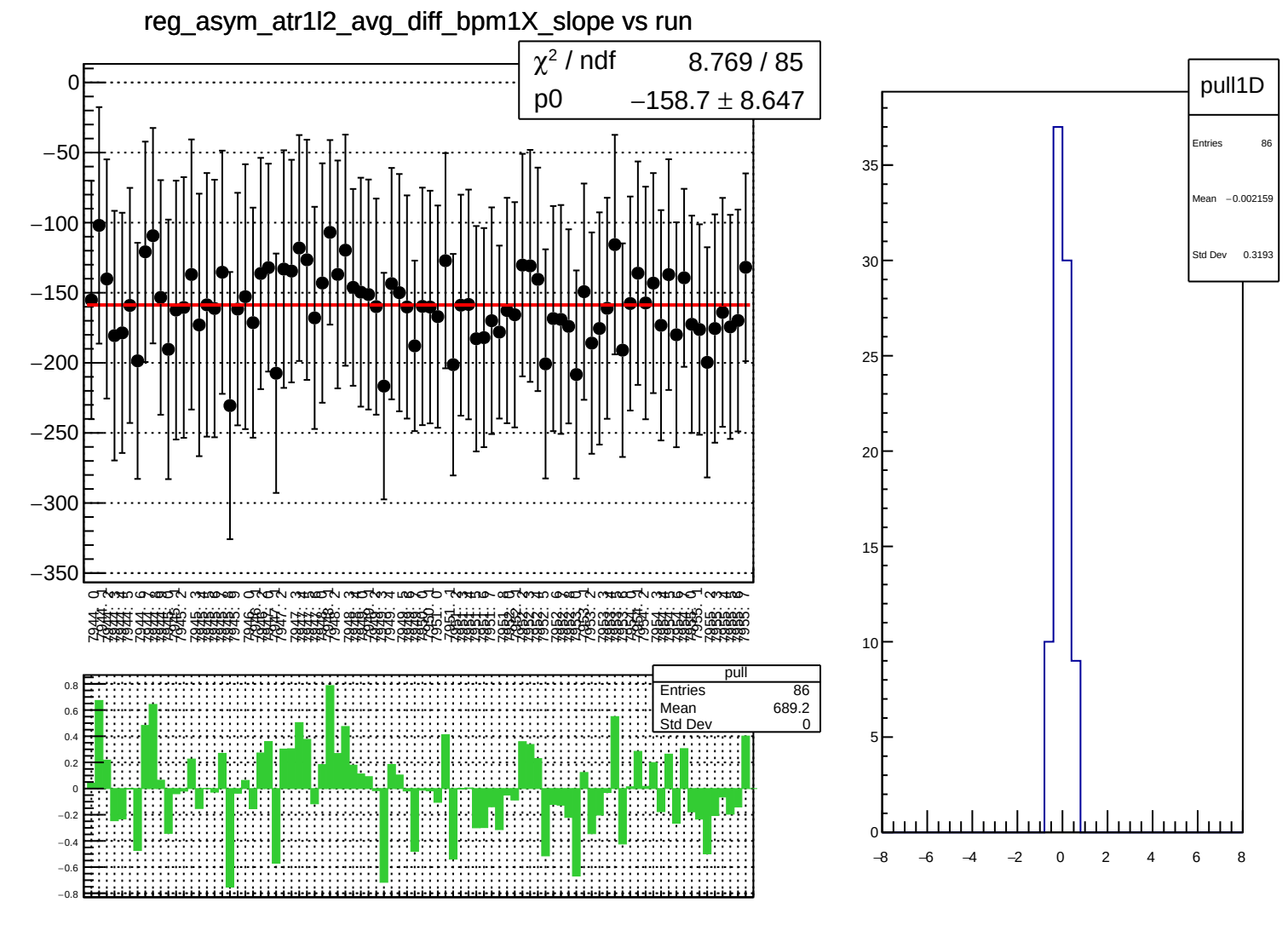

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.68 / 85
p0 −148.7 ± 9.437
pull
Entries 86
Mean 466.6
Std Dev 0

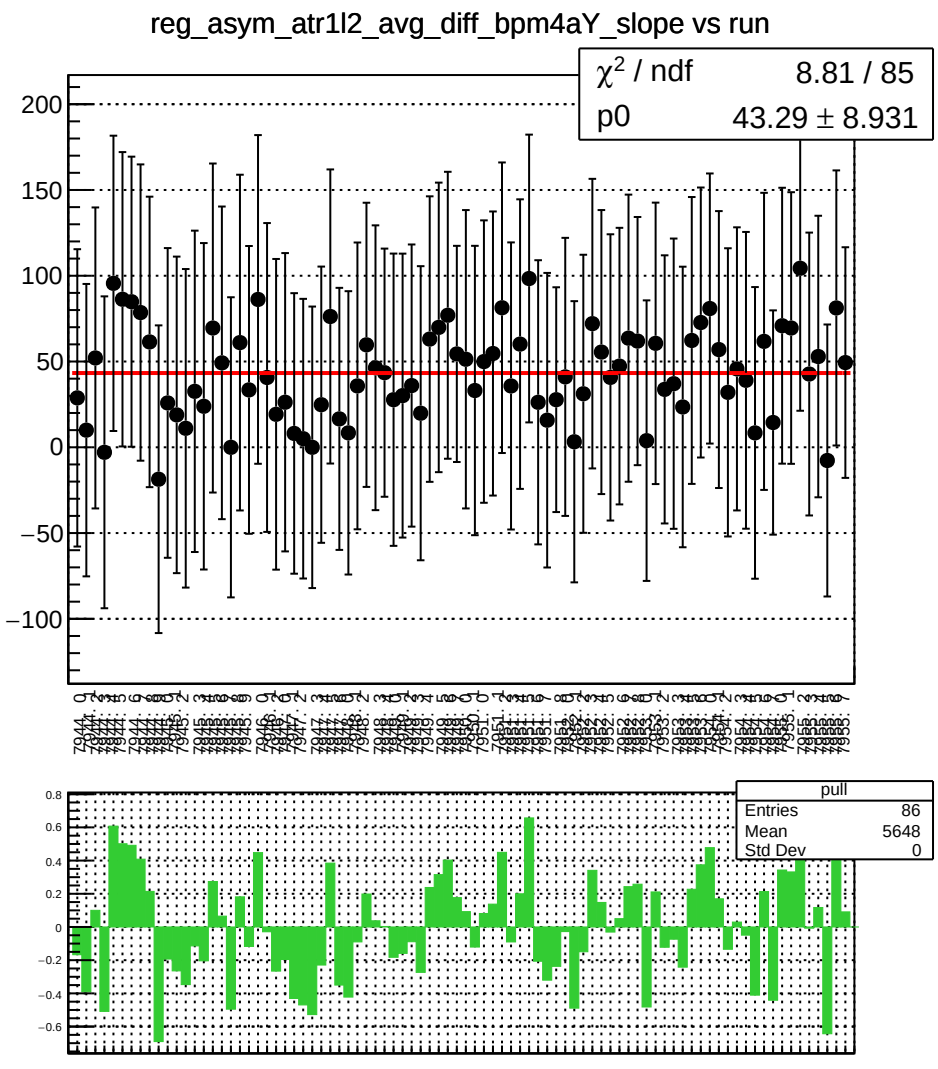

pull1D
Entries 86
Mean −0.002956
Std Dev 0.2988

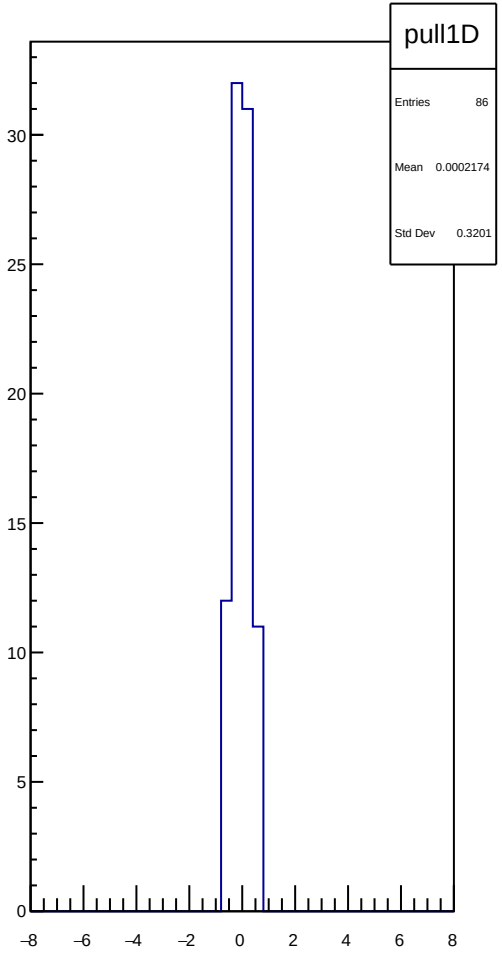

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.251 / 85
p0 8.938 ± 12.61
200
100
0
−100
−200
pull
Entries 86
Mean 540.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 86
Mean 0.001108
Std Dev 0.3097
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

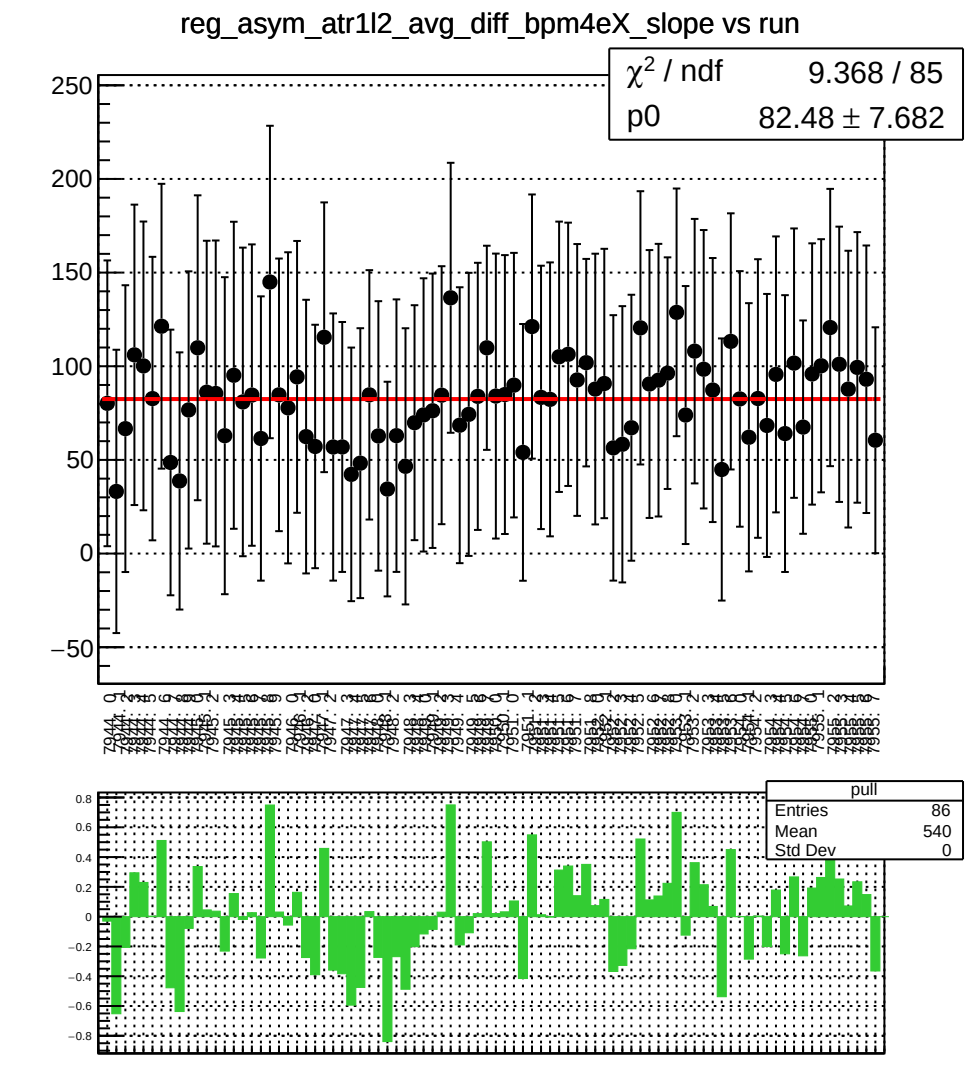

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.74 / 85
p0 149.3 ± 0.3543
156
154
152
150
148
146
144
142
pull
Entries 86
Mean −263.2
Std Dev 0
1
0.5
0
−0.5
−1

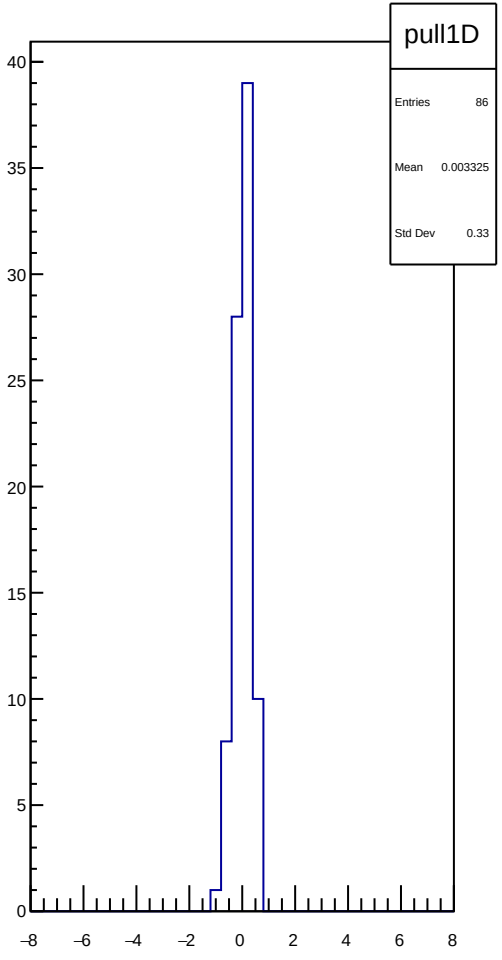

pull1D
Entries 86
Mean −0.01092
Std Dev 0.3996
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

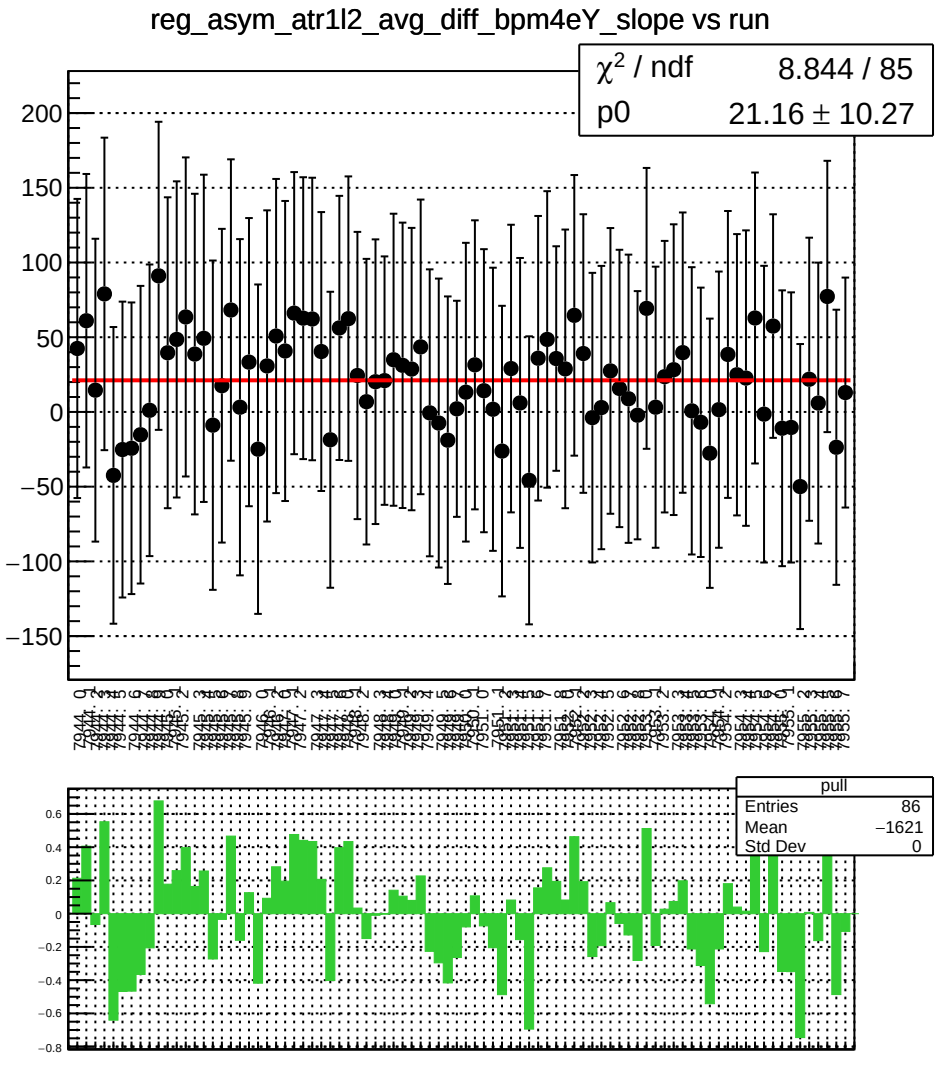

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.769 / 85
p0 −158.7 ± 8.647
pull
Entries 86
Mean 689.2
Std Dev 0
pull1D
Entries 86
Mean −0.002159
Std Dev 0.3193

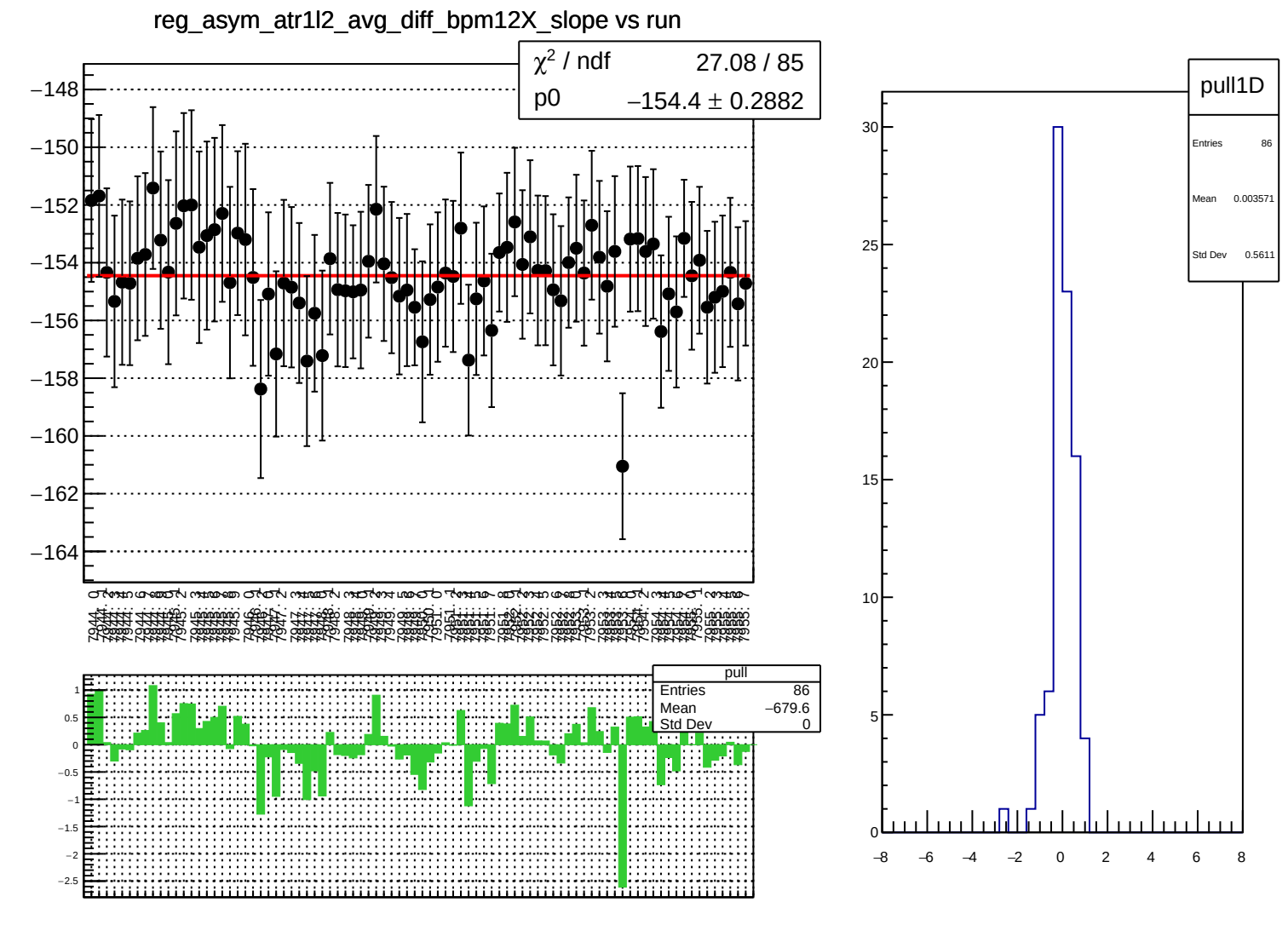

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.81 / 85
p0 43.29 ± 8.931
pull
Entries 86
Mean 5648
Std Dev 0

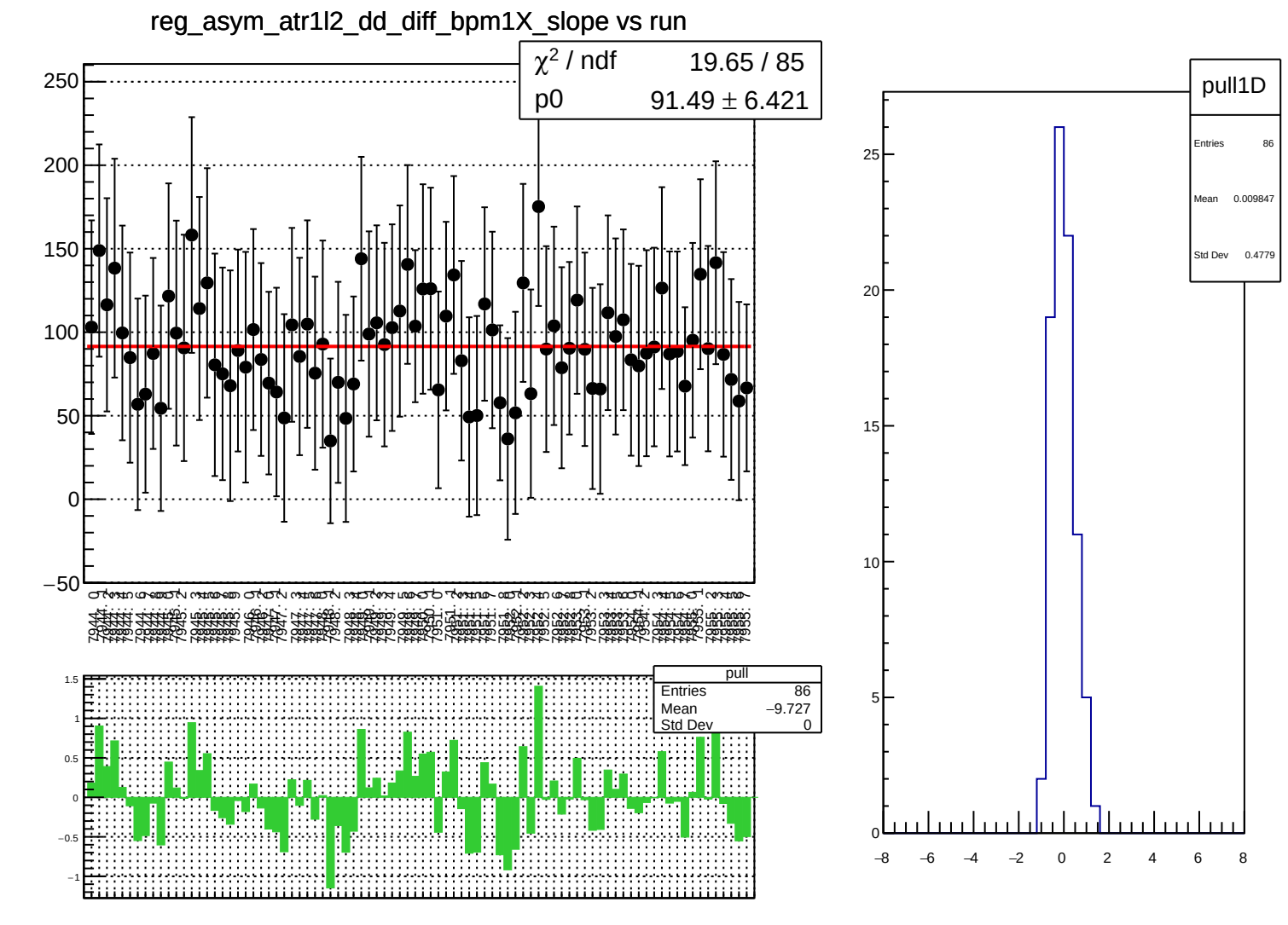

pull1D
Entries 86
Mean 0.0002174
Std Dev 0.3201

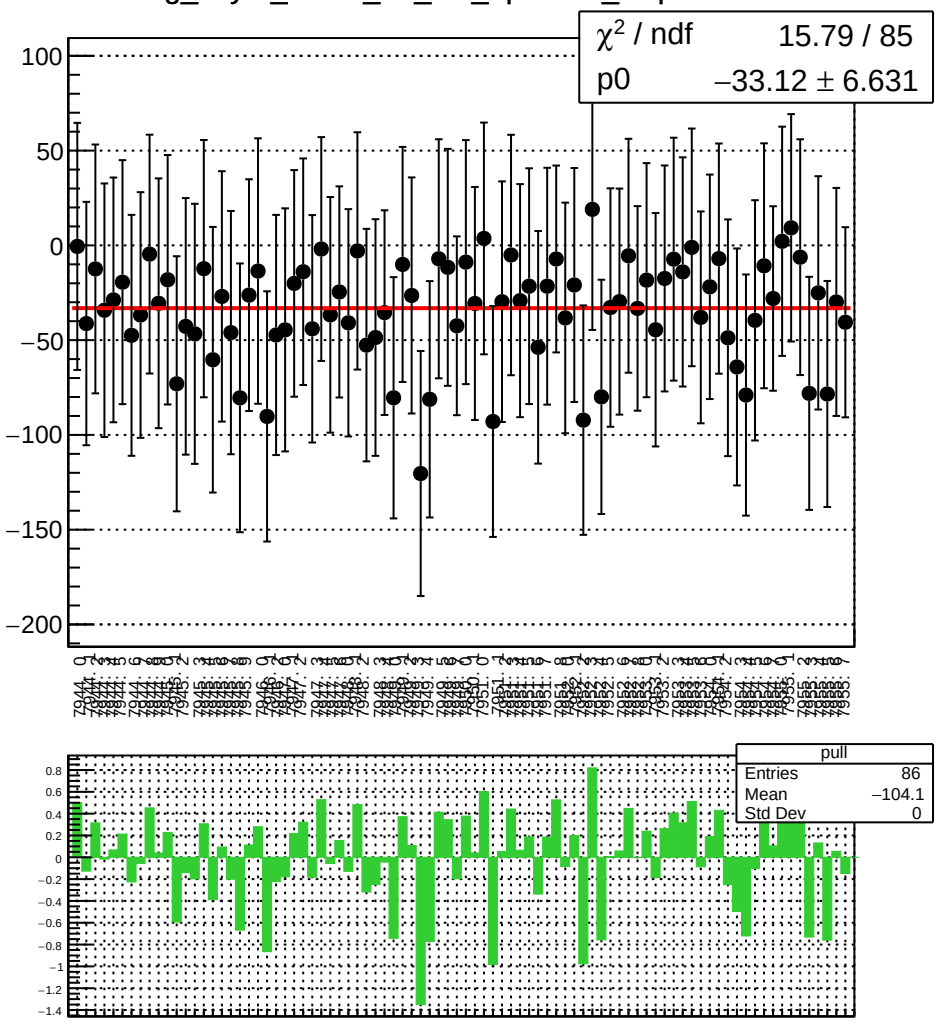

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.368 / 85
p0 82.48 ± 7.682
pull
Entries 86
Mean 540
Std Dev 0

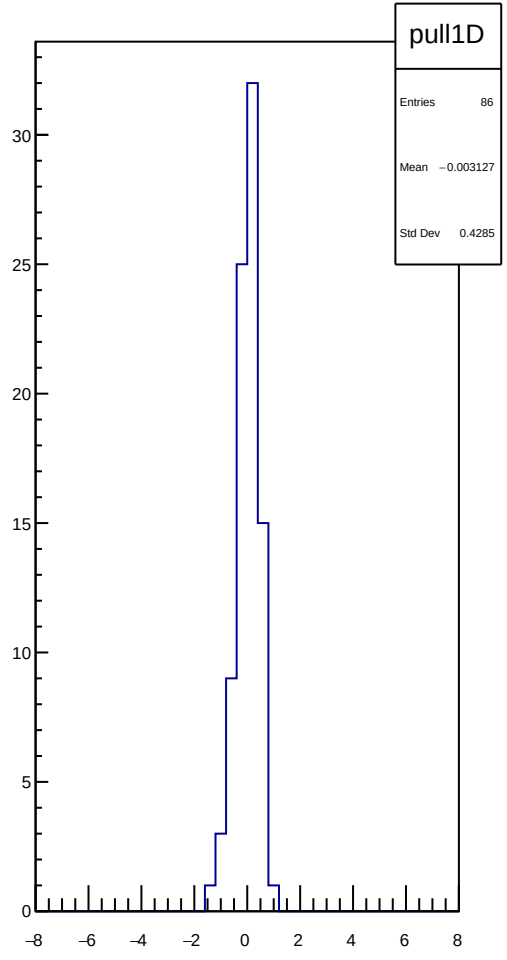

pull1D
Entries 86
Mean 0.003325
Std Dev 0.33

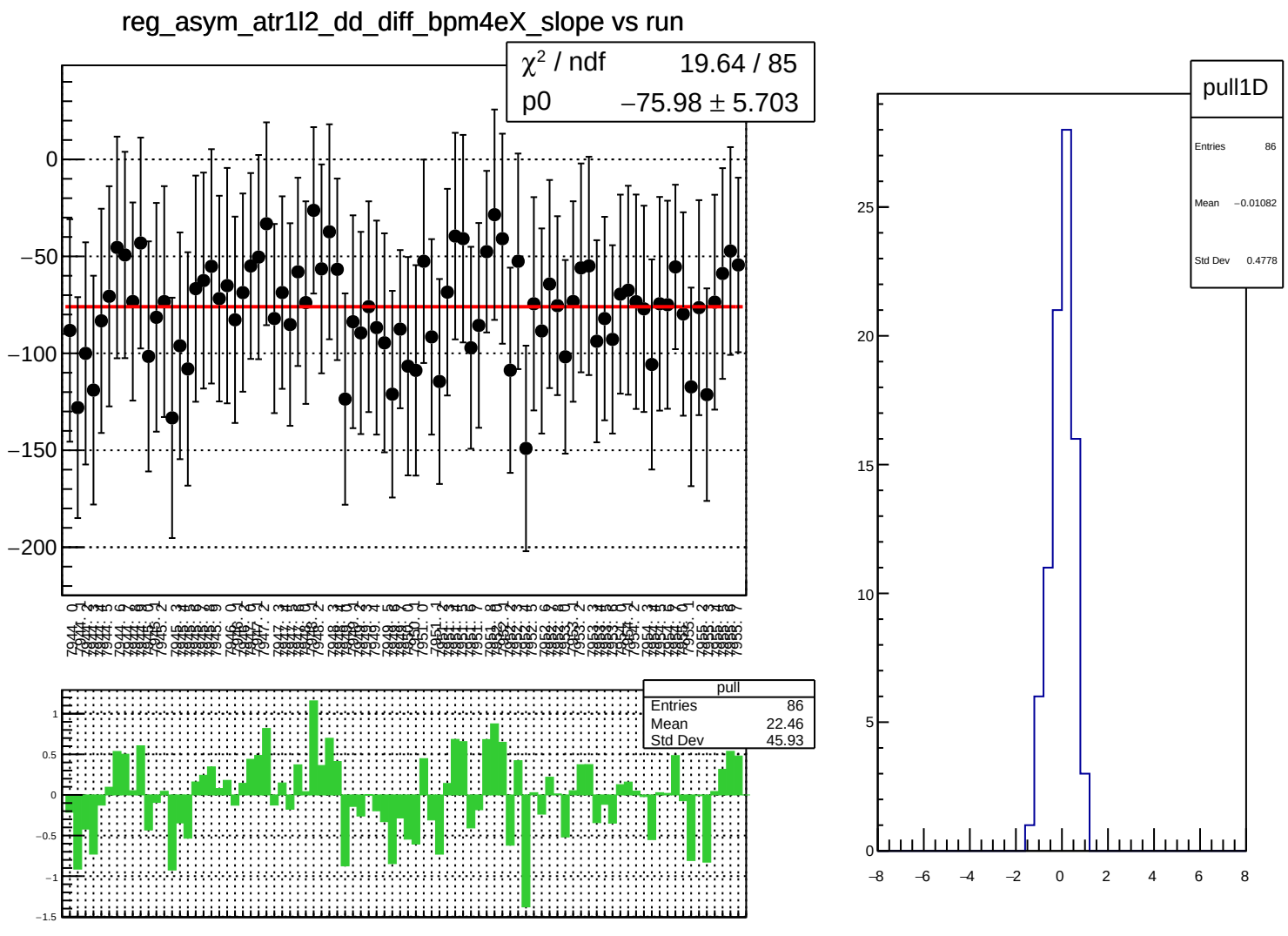

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.844 / 85
p0 21.16 ± 10.27
pull
Entries 86
Mean −1621
Std Dev 0
pull1D
Entries 86
Mean 0.0008435
Std Dev 0.3207

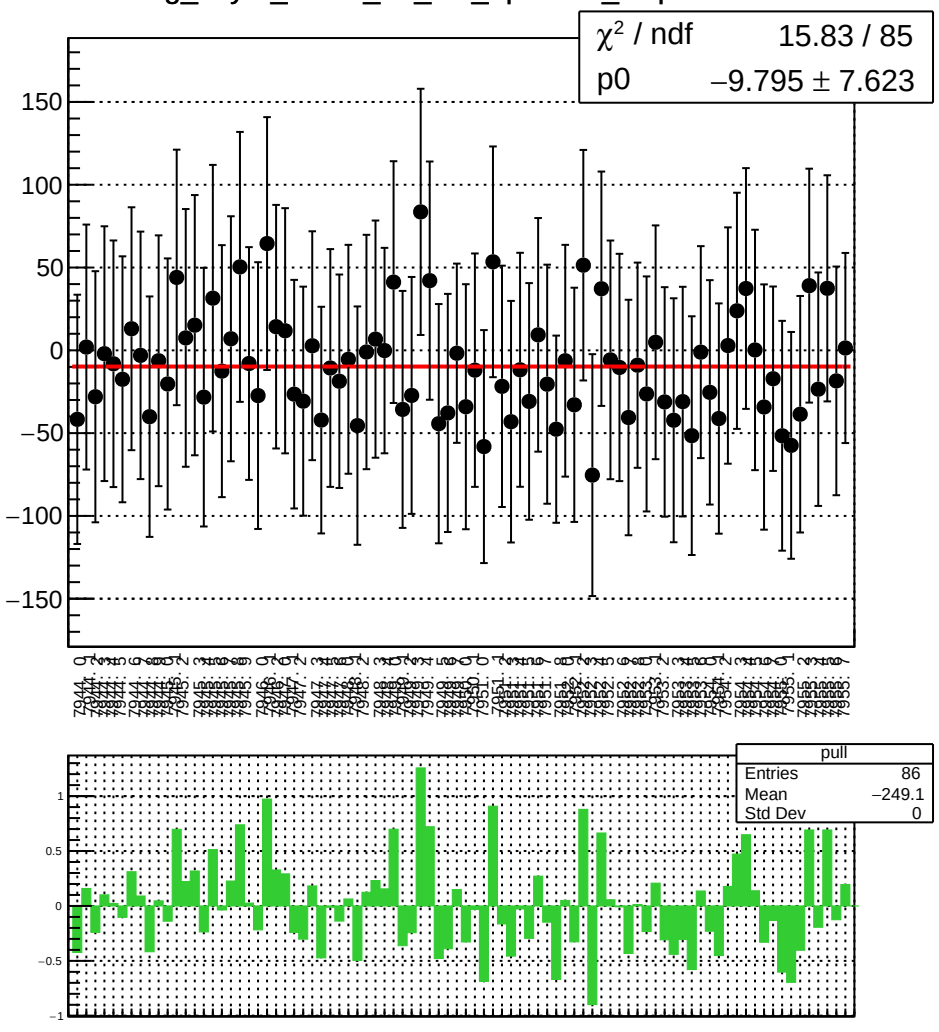

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 27.08 / 85
p0 −154.4 ± 0.2882
pull
Entries 86
Mean −679.6
Std Dev 0
pull1D
Entries 86
Mean 0.003571
Std Dev 0.5611

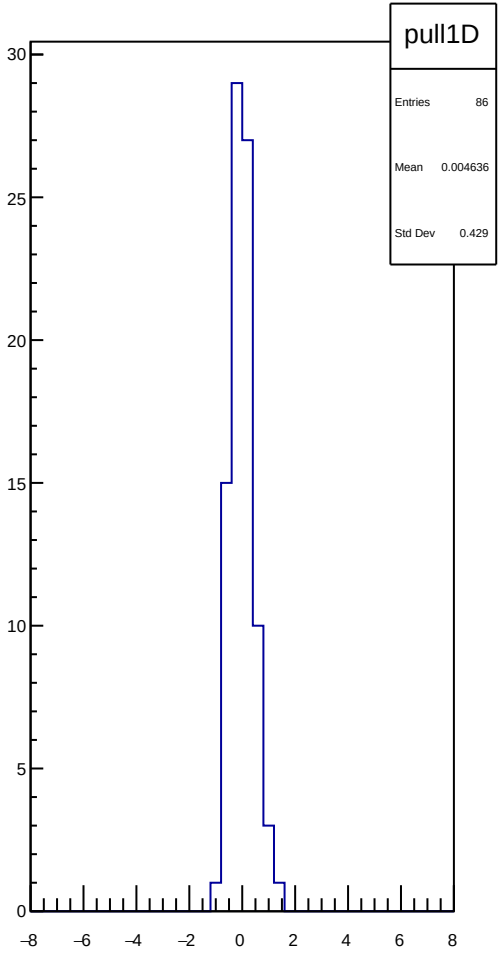

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 19.65 / 85
p0 91.49 ± 6.421
pull
Entries 86
Mean −9.727
Std Dev 0
pull1D
Entries 86
Mean 0.009847
Std Dev 0.4779

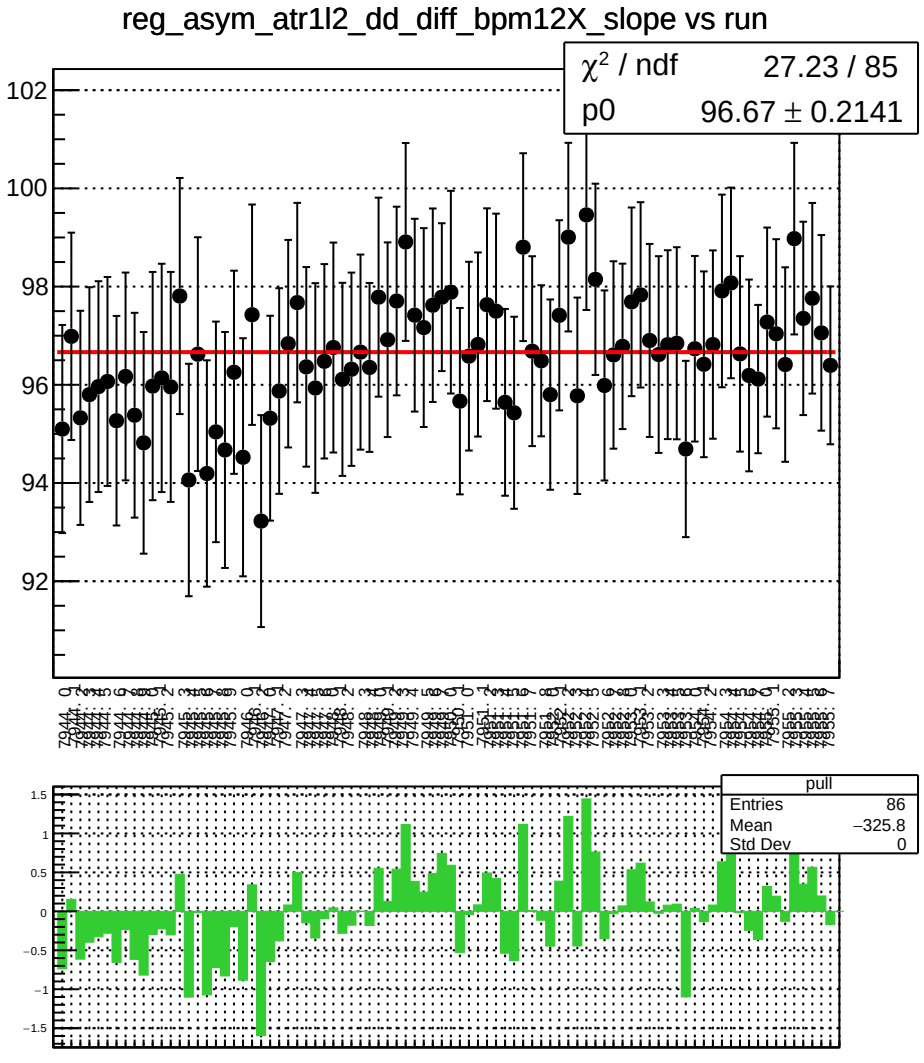

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.79 / 85
p0 −33.12 ± 6.631
pull
Entries 86
Mean −104.1
Std Dev 0

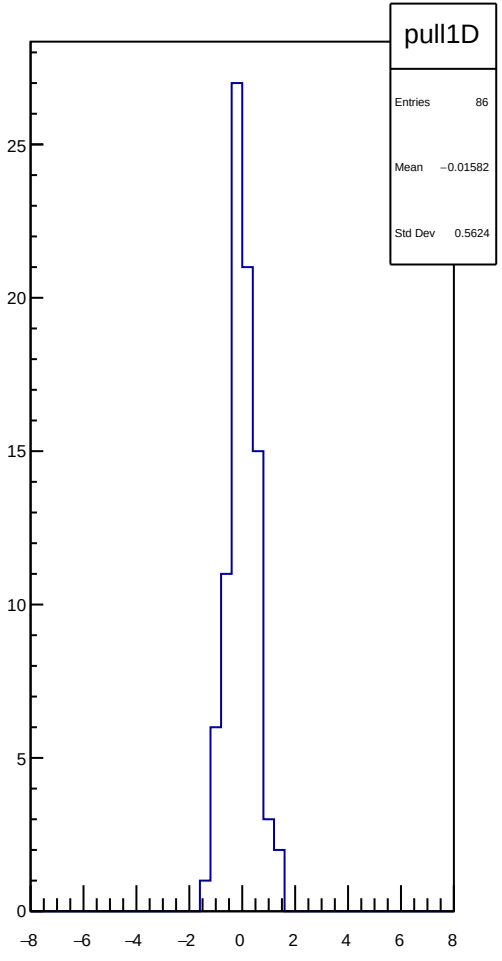

pull1D
Entries 86
Mean −0.003127
Std Dev 0.4285

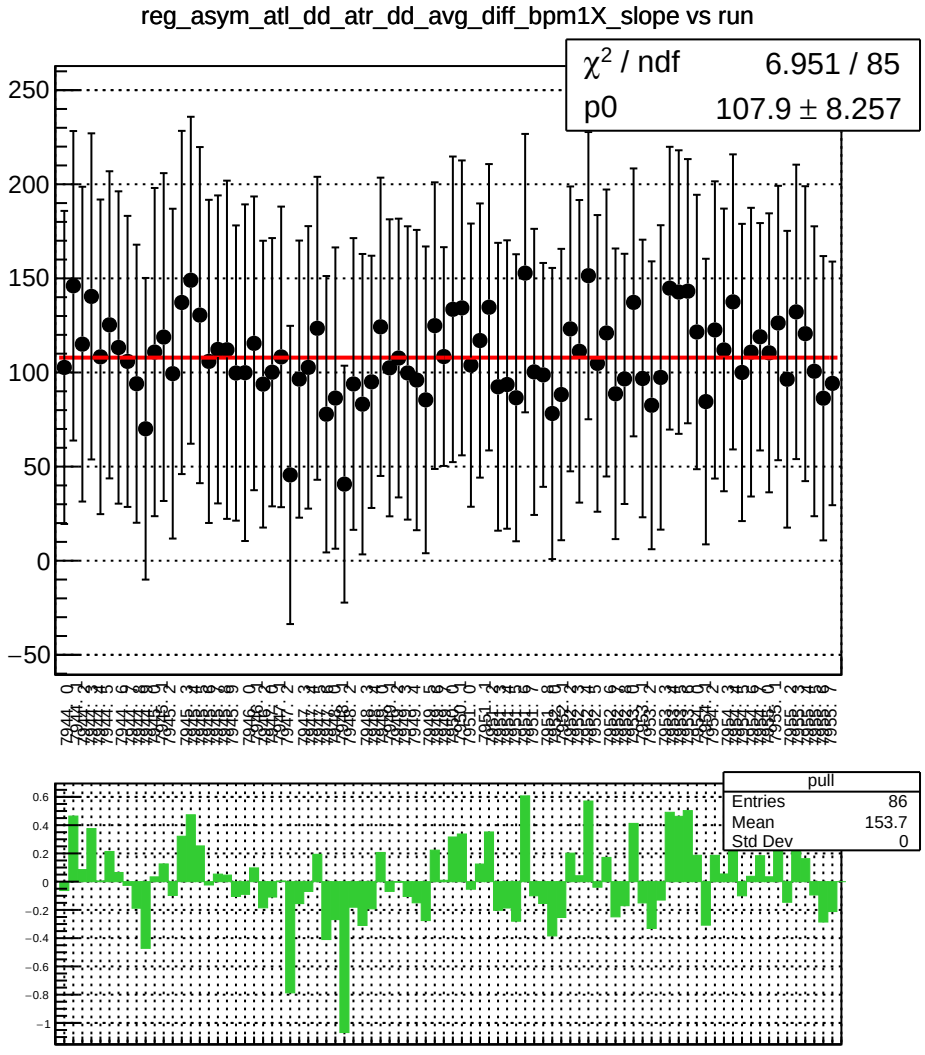

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.64 / 85
p0 −75.98 ± 5.703
0
−50
−100
−150
−200
pull
Entries 86
Mean 22.46
Std Dev 45.93
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean −0.01082
Std Dev 0.4778
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

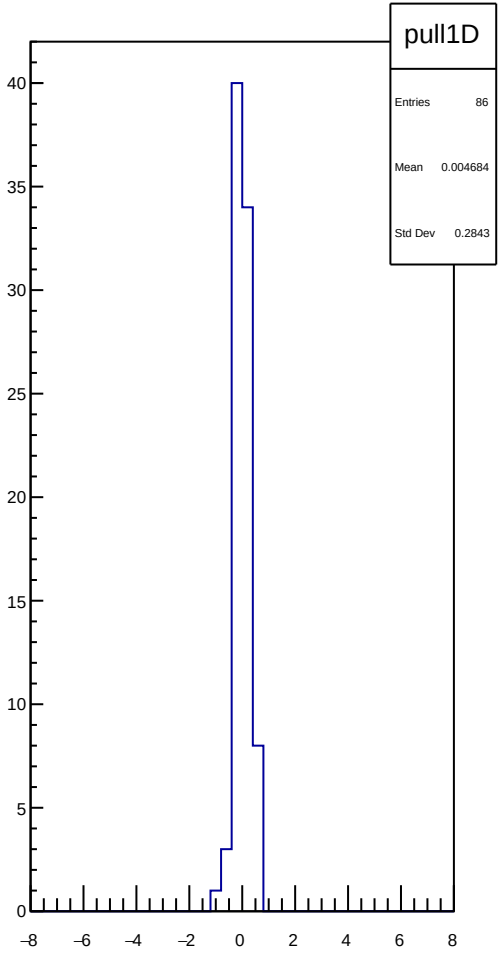

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.83 / 85
p0 −9.795 ± 7.623
pull
Entries 86
Mean −249.1
Std Dev 0

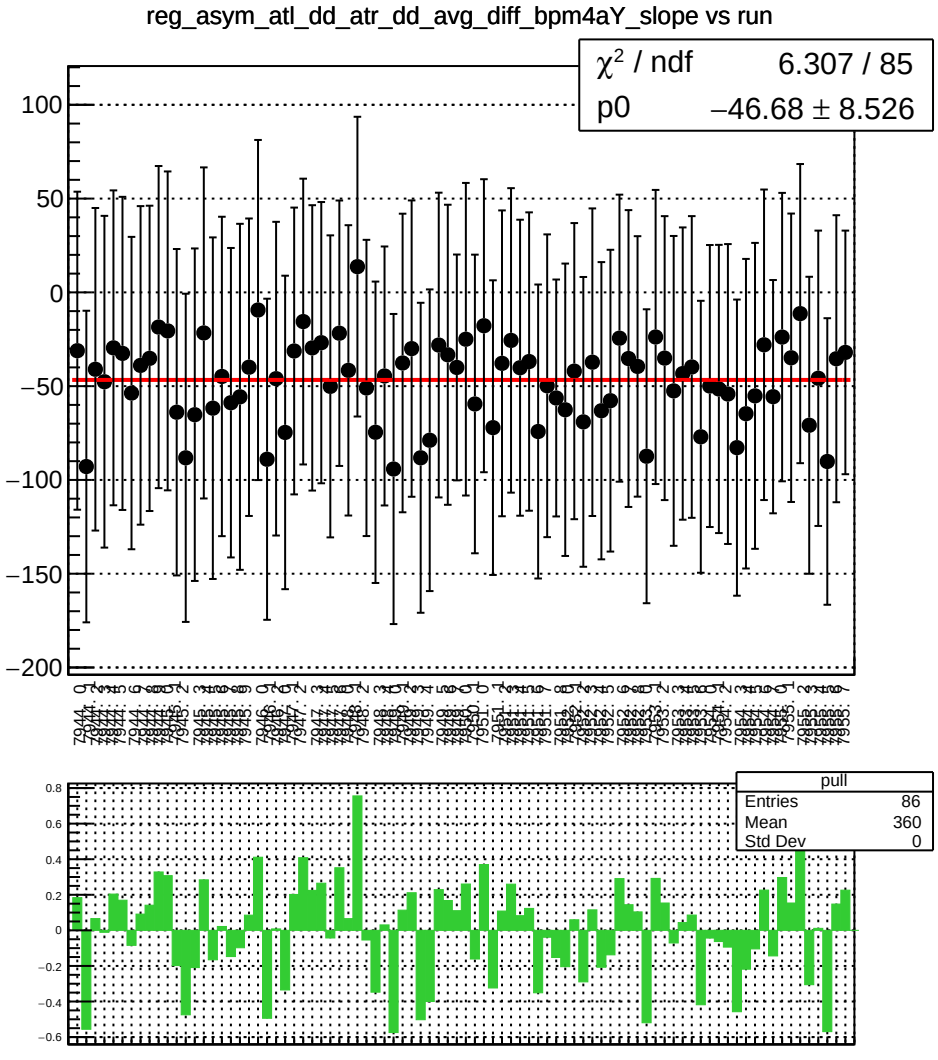

pull1D
Entries 86
Mean 0.004636
Std Dev 0.429

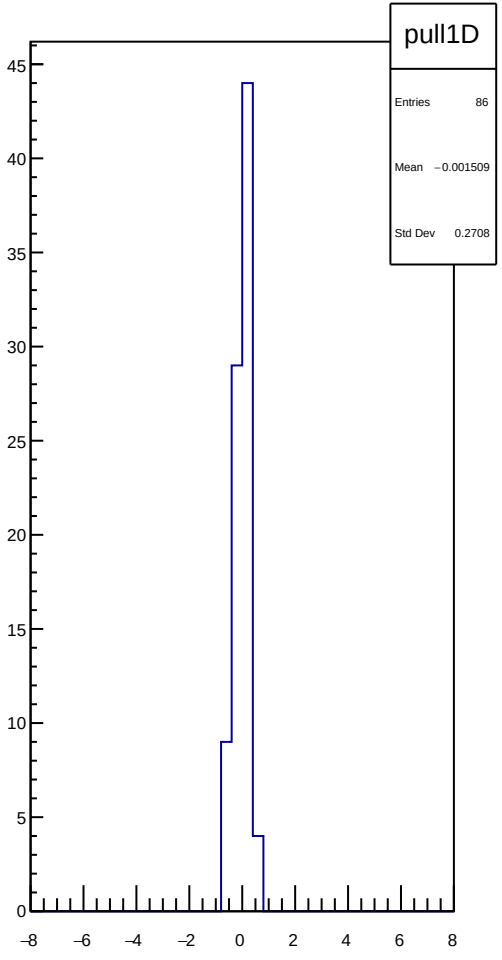

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 27.23 / 85
p0 96.67 ± 0.2141
pull
Entries 86
Mean −325.8
Std Dev 0

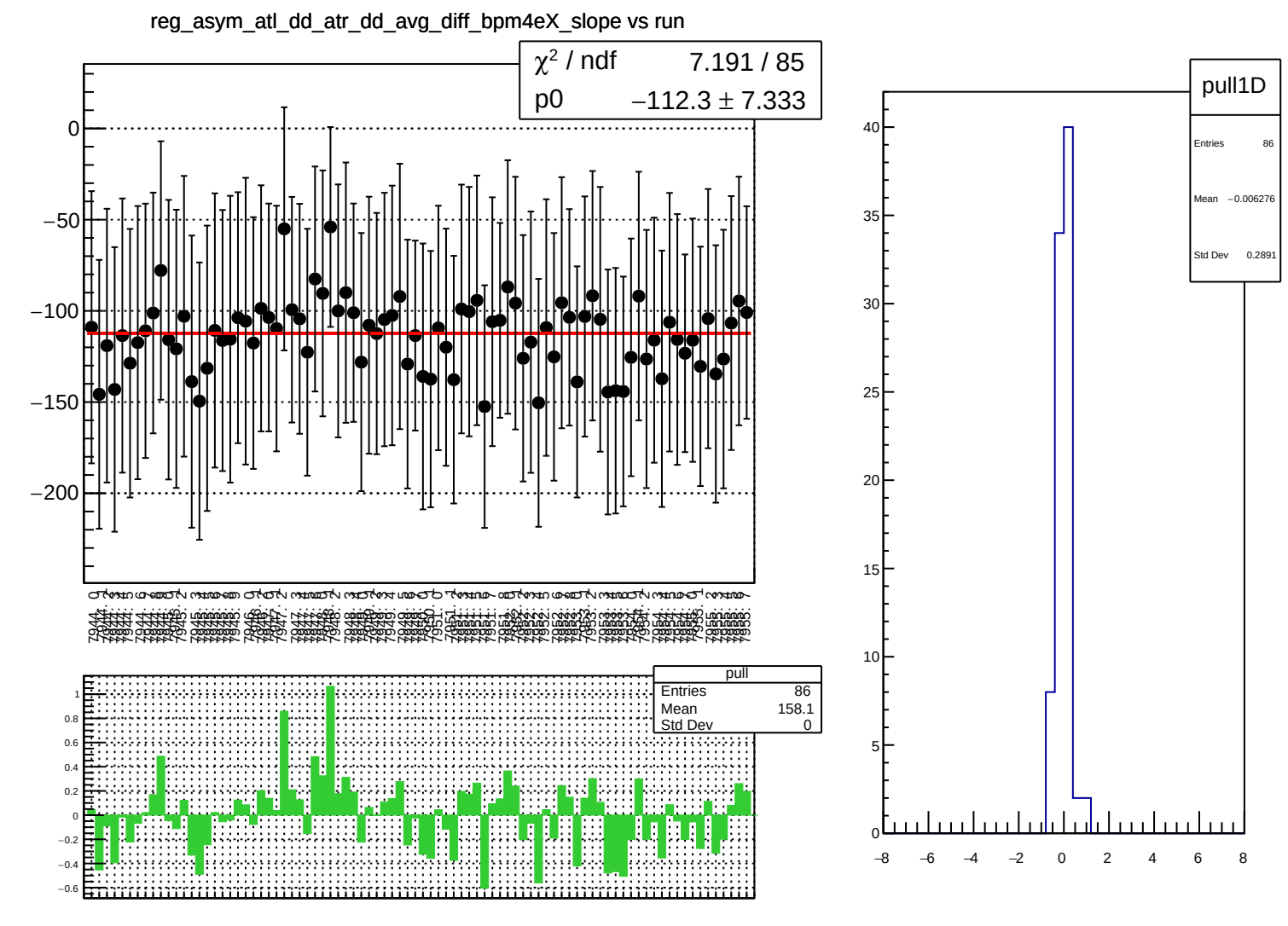

pull1D
Entries 86
Mean −0.01582
Std Dev 0.5624

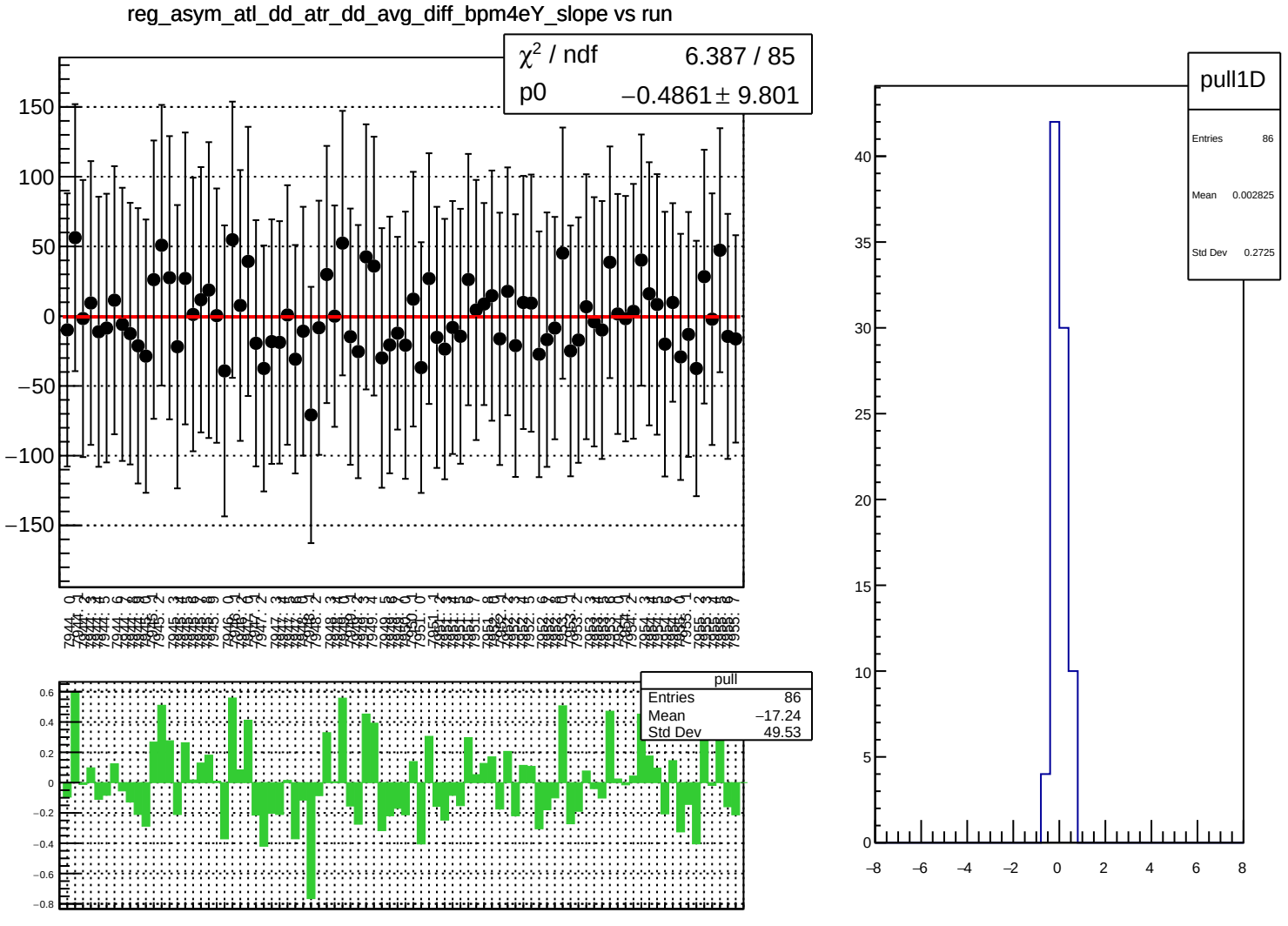

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 6.951 / 85
p0 107.9 ± 8.257
pull
Entries 86
Mean 153.7
Std Dev 0

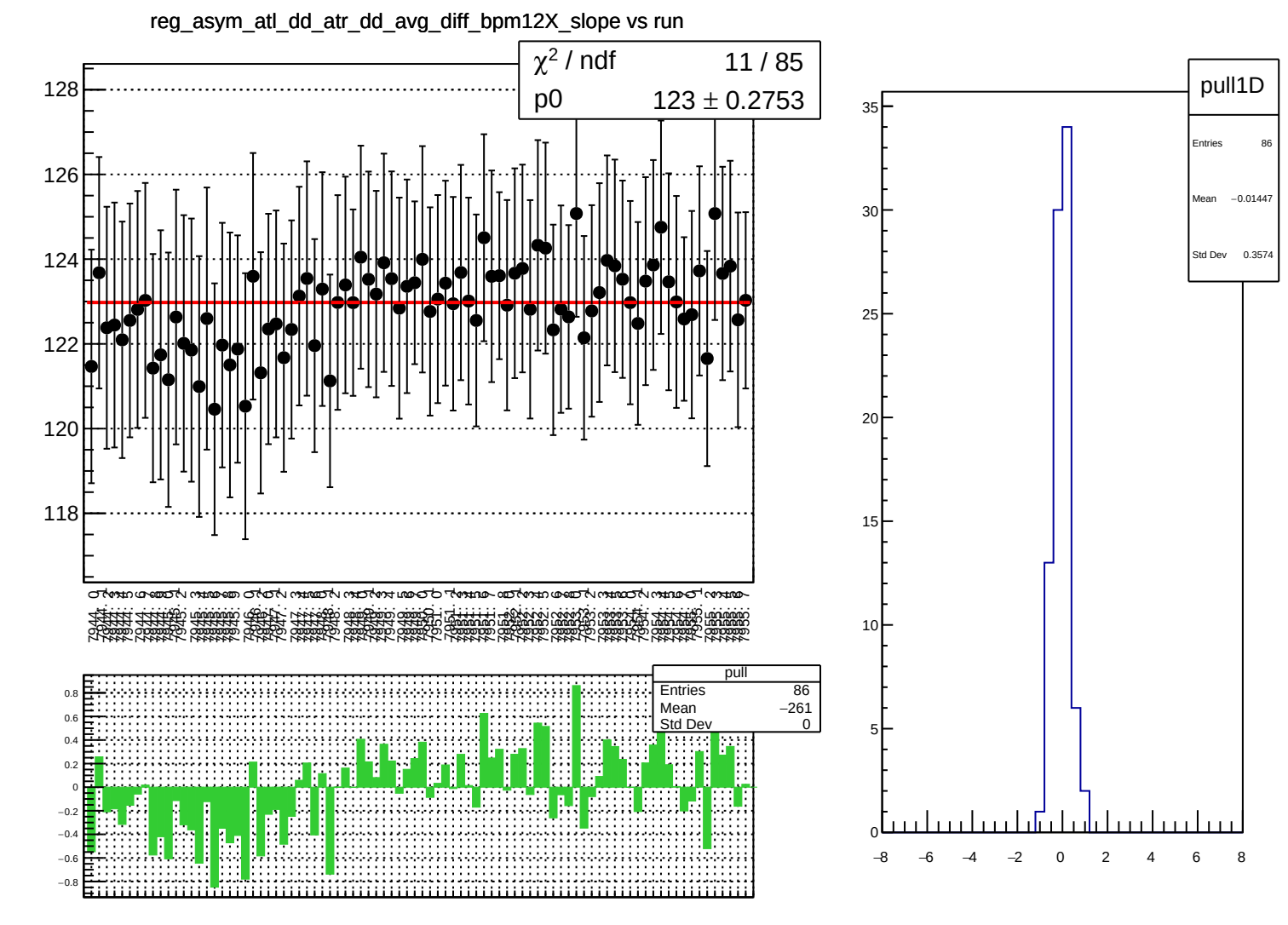

pull1D
Entries 86
Mean 0.004684
Std Dev 0.2843

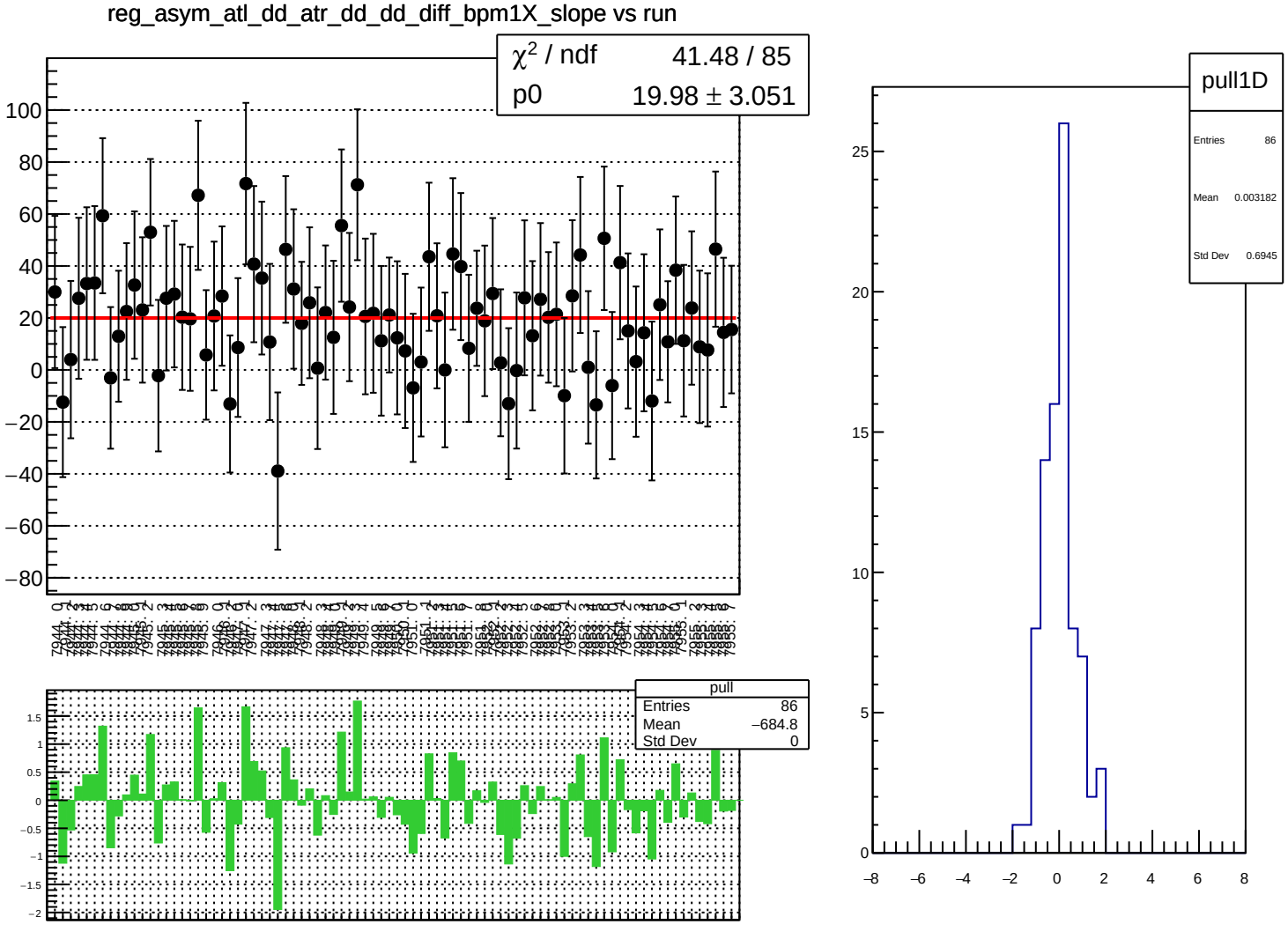

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.307 / 85
p0 −46.68 ± 8.526
pull
Entries 86
Mean 360
Std Dev 0

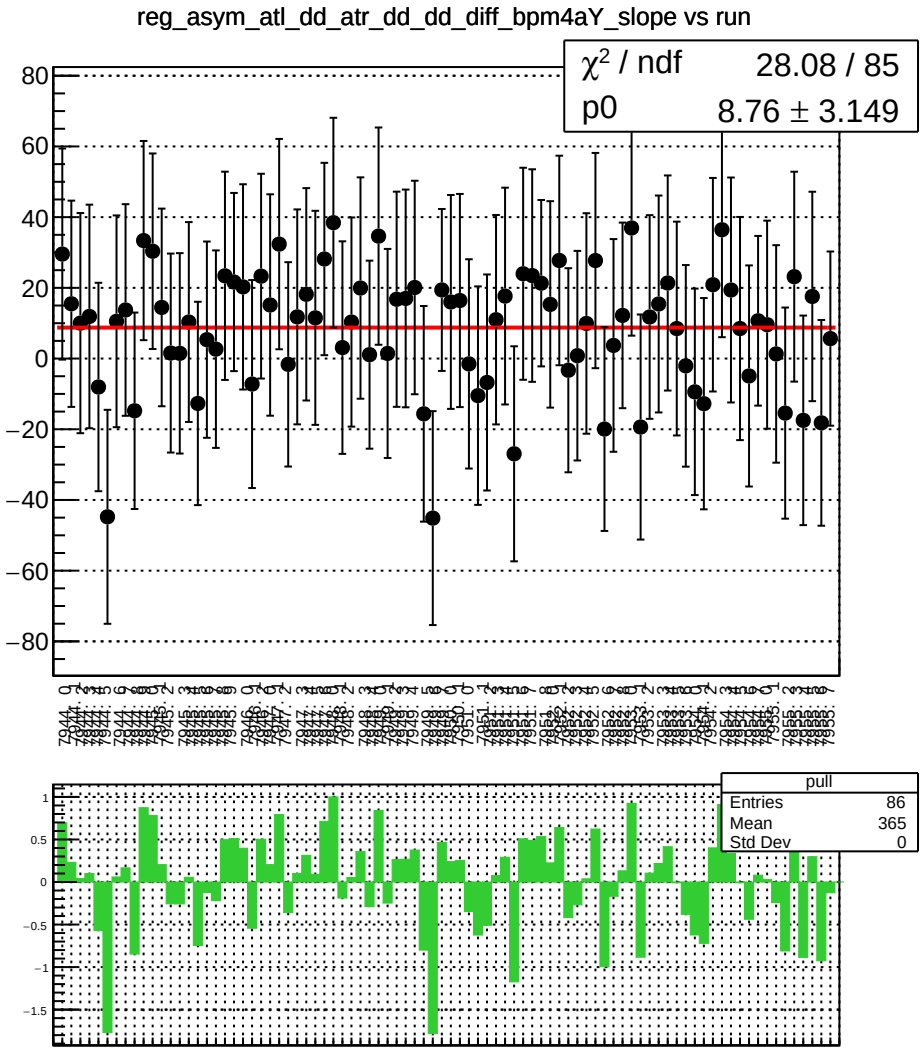

pull1D
Entries 86
Mean −0.001509
Std Dev 0.2708

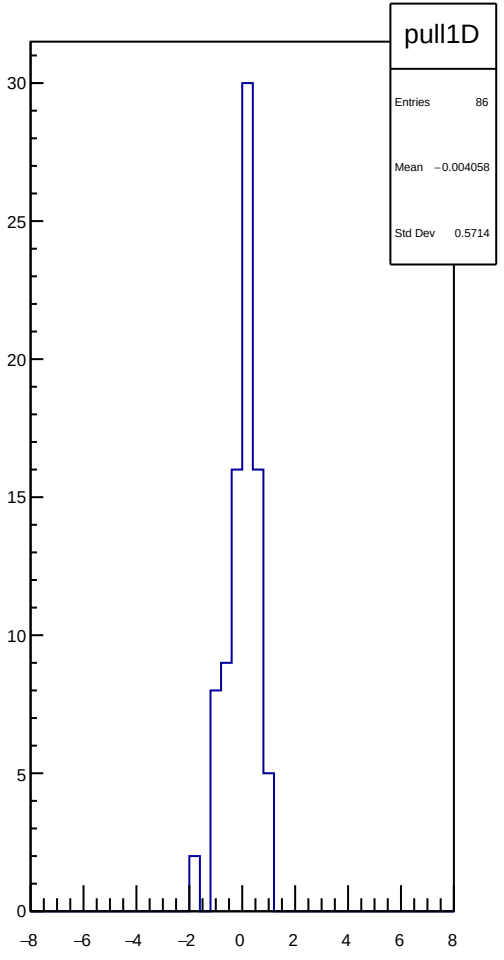

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.191 / 85
p0 −112.3 ± 7.333
0
−50
−100
−150
−200
pull
Entries 86
Mean 158.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 86
Mean −0.006276
Std Dev 0.2891
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

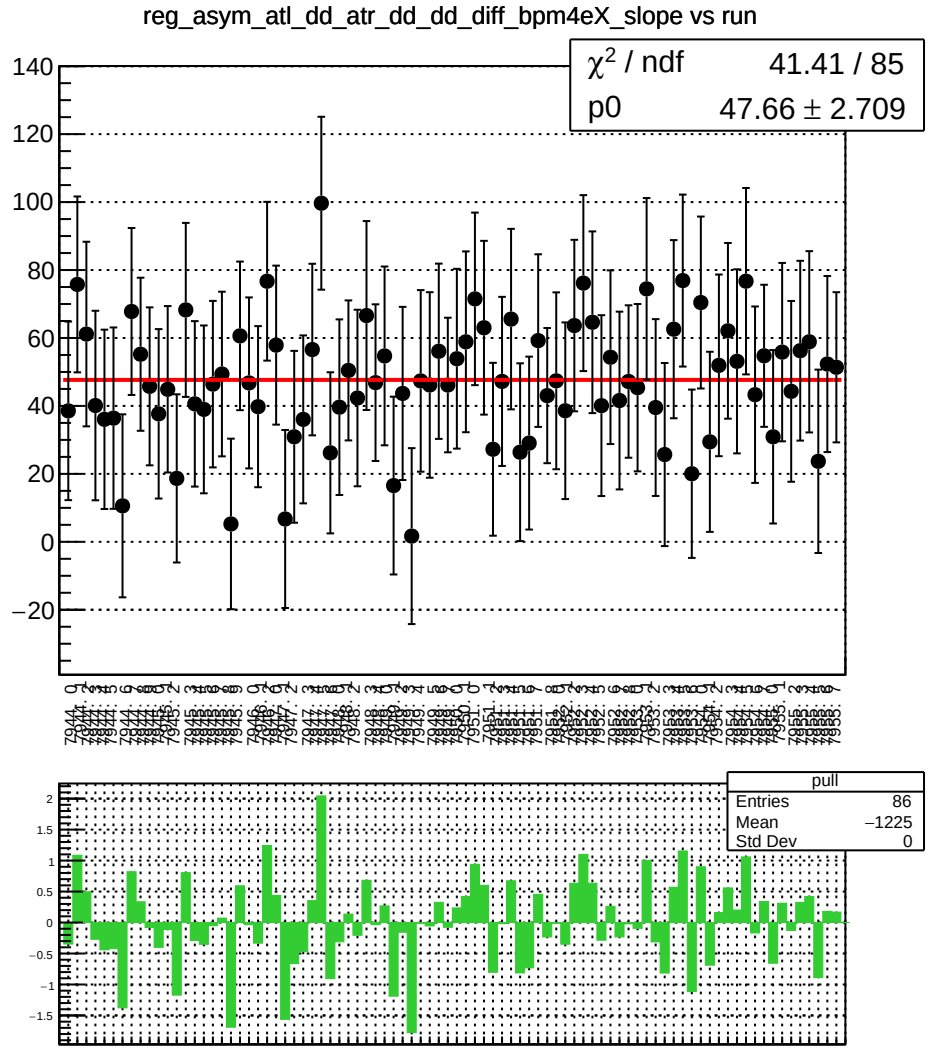

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.387 / 85
p0 −0.4861 ± 9.801
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −17.24
Std Dev 49.53
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 86
Mean 0.002825
Std Dev 0.2725
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

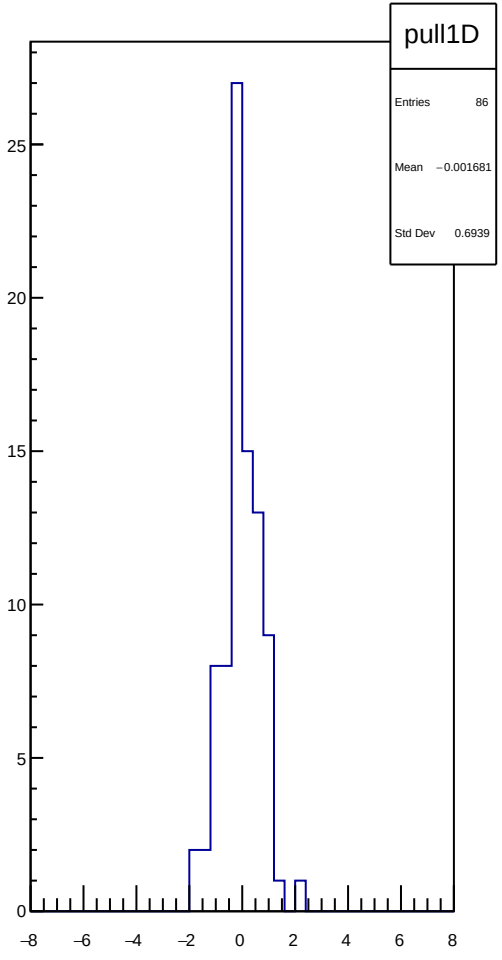

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 11 / 85
p0 123 ± 0.2753
pull
Entries 86
Mean −261
Std Dev 0
pull1D
Entries 86
Mean −0.01447
Std Dev 0.3574

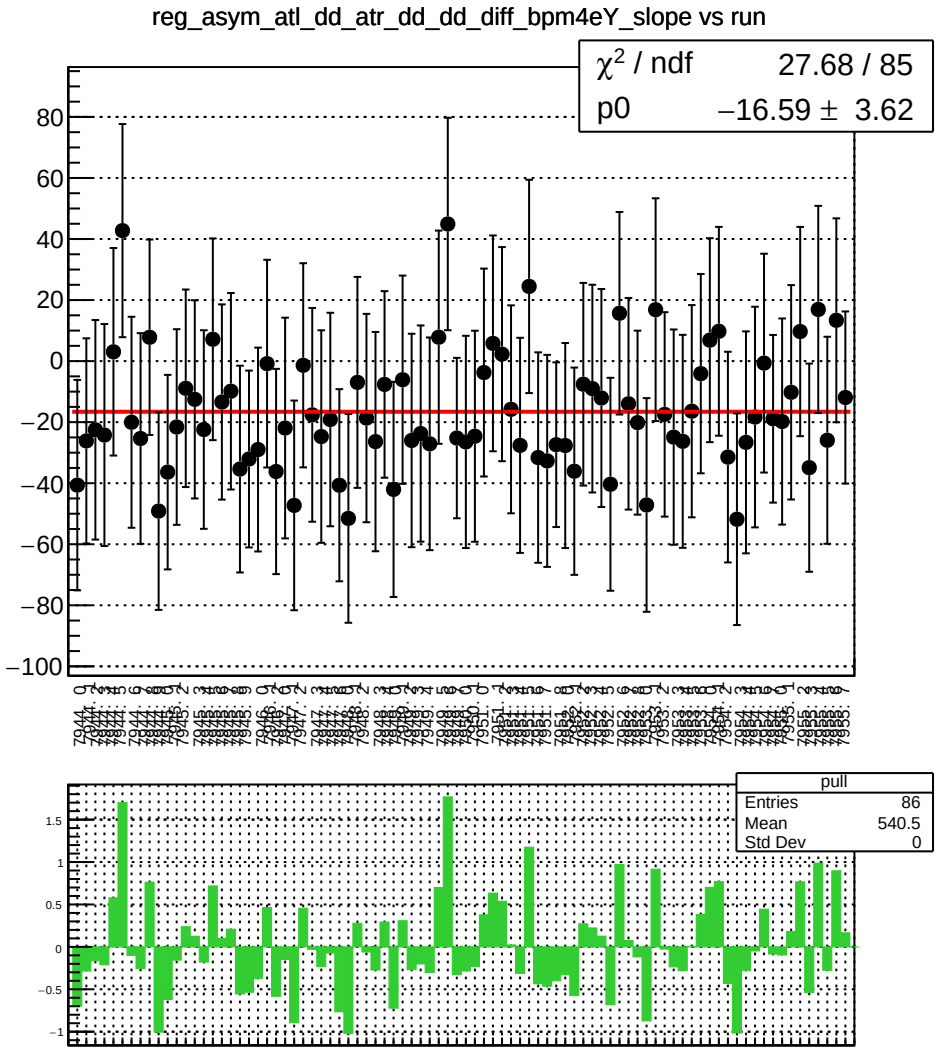

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 41.48 / 85
p0 19.98 ± 3.051
pull
Entries 86
Mean −684.8
Std Dev 0
pull1D
Entries 86
Mean 0.003182
Std Dev 0.6945

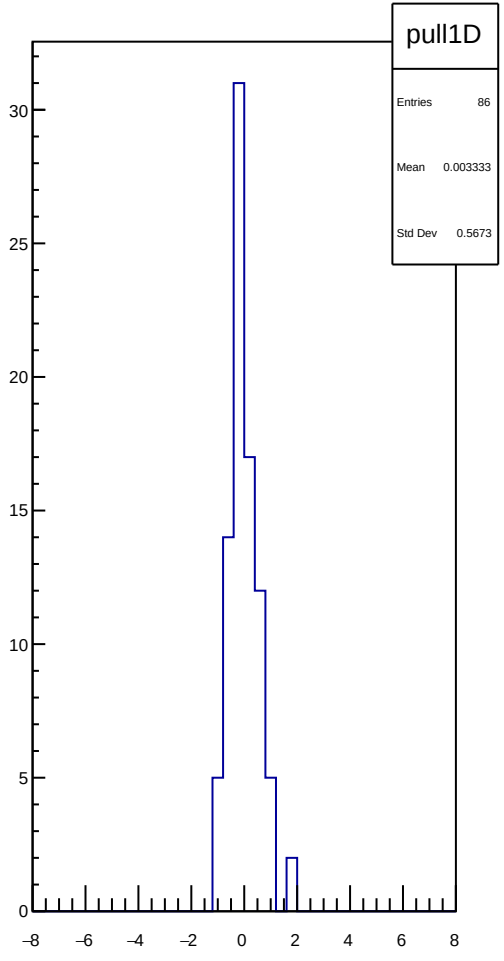

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.08 / 85
p0 8.76 ± 3.149
pull
Entries 86
Mean 365
Std Dev 0

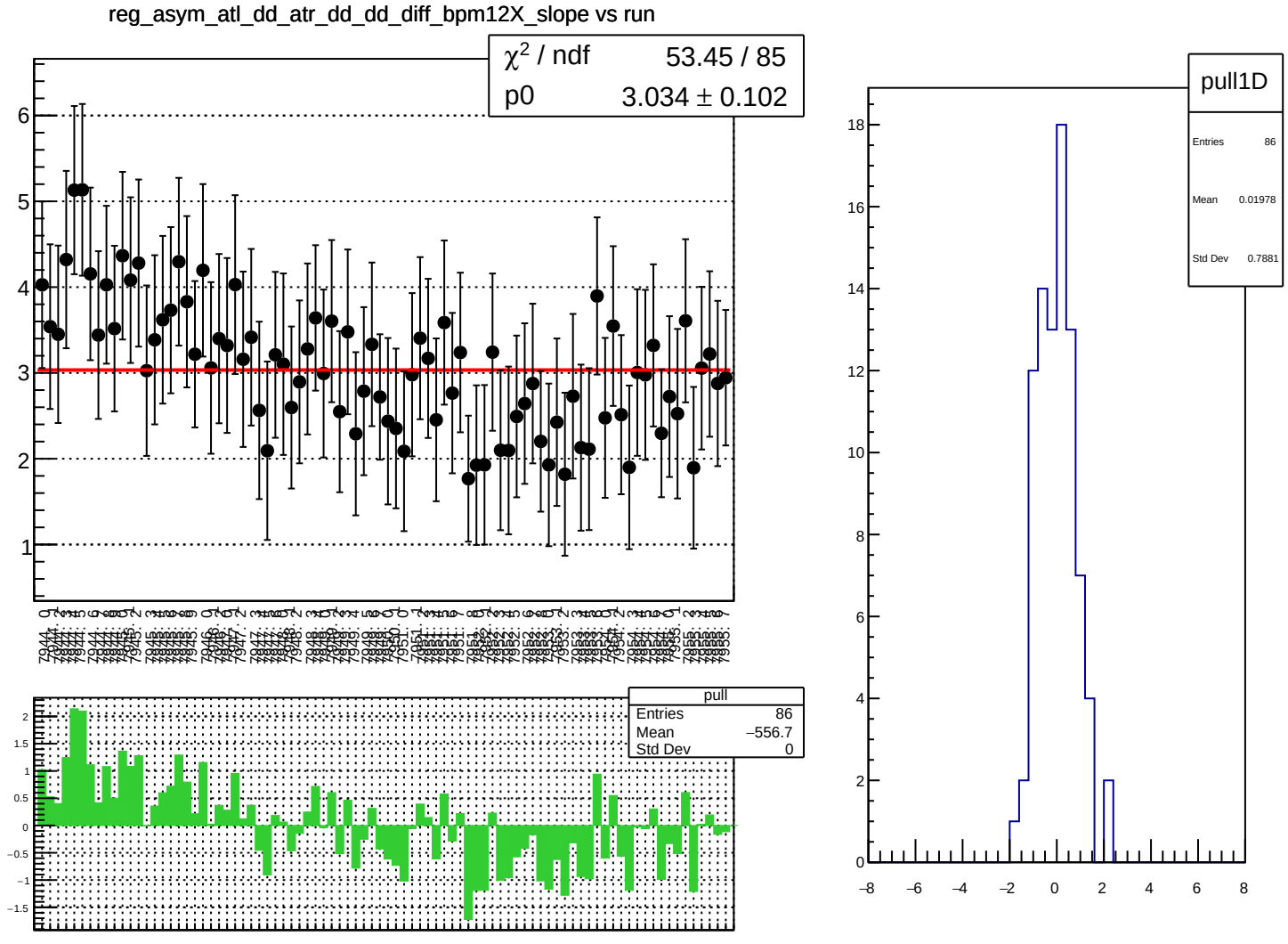

pull1D
Entries 86
Mean −0.004058
Std Dev 0.5714

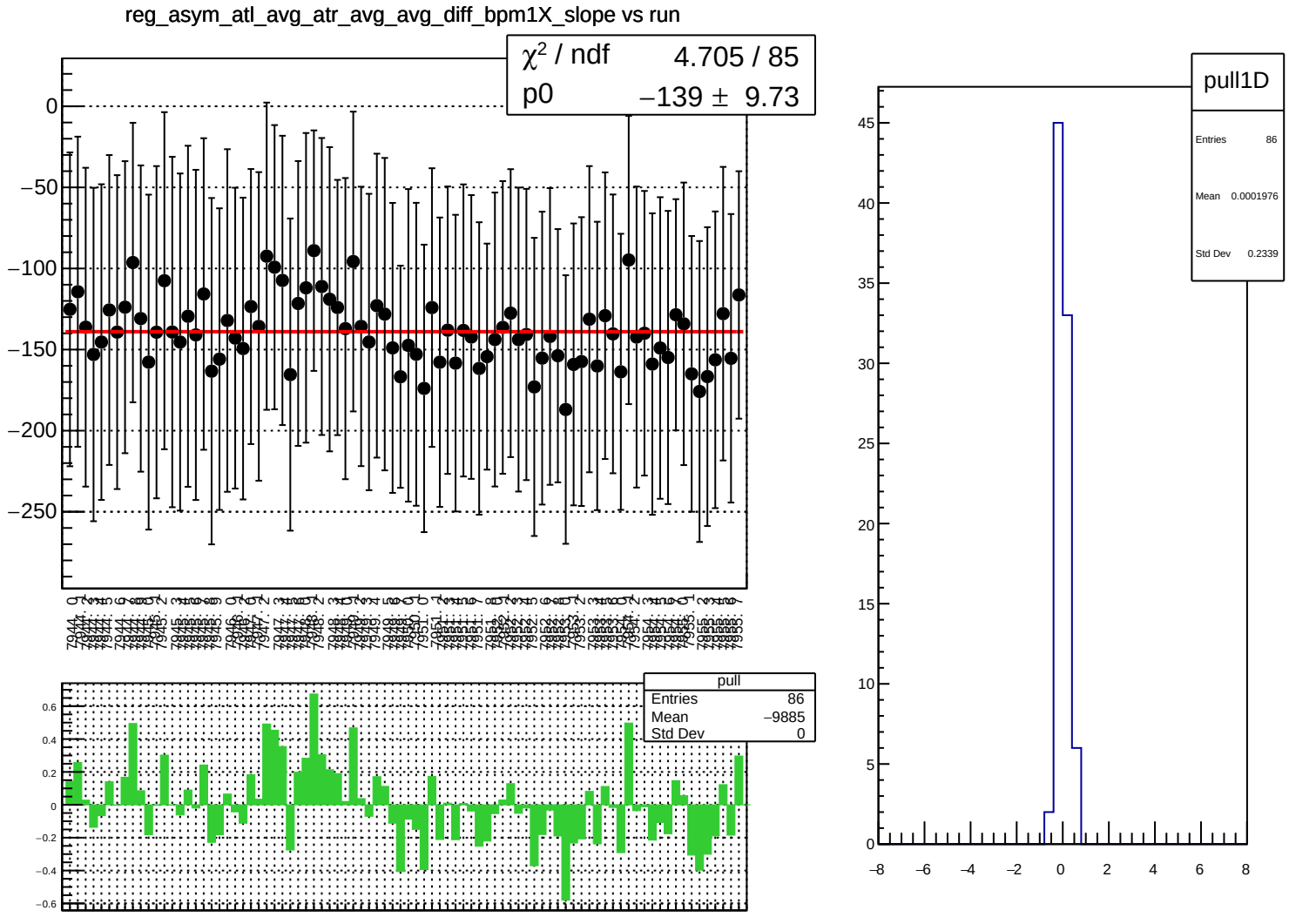

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.41 / 85
p0 47.66 ± 2.709
pull
Entries 86
Mean −1225
Std Dev 0

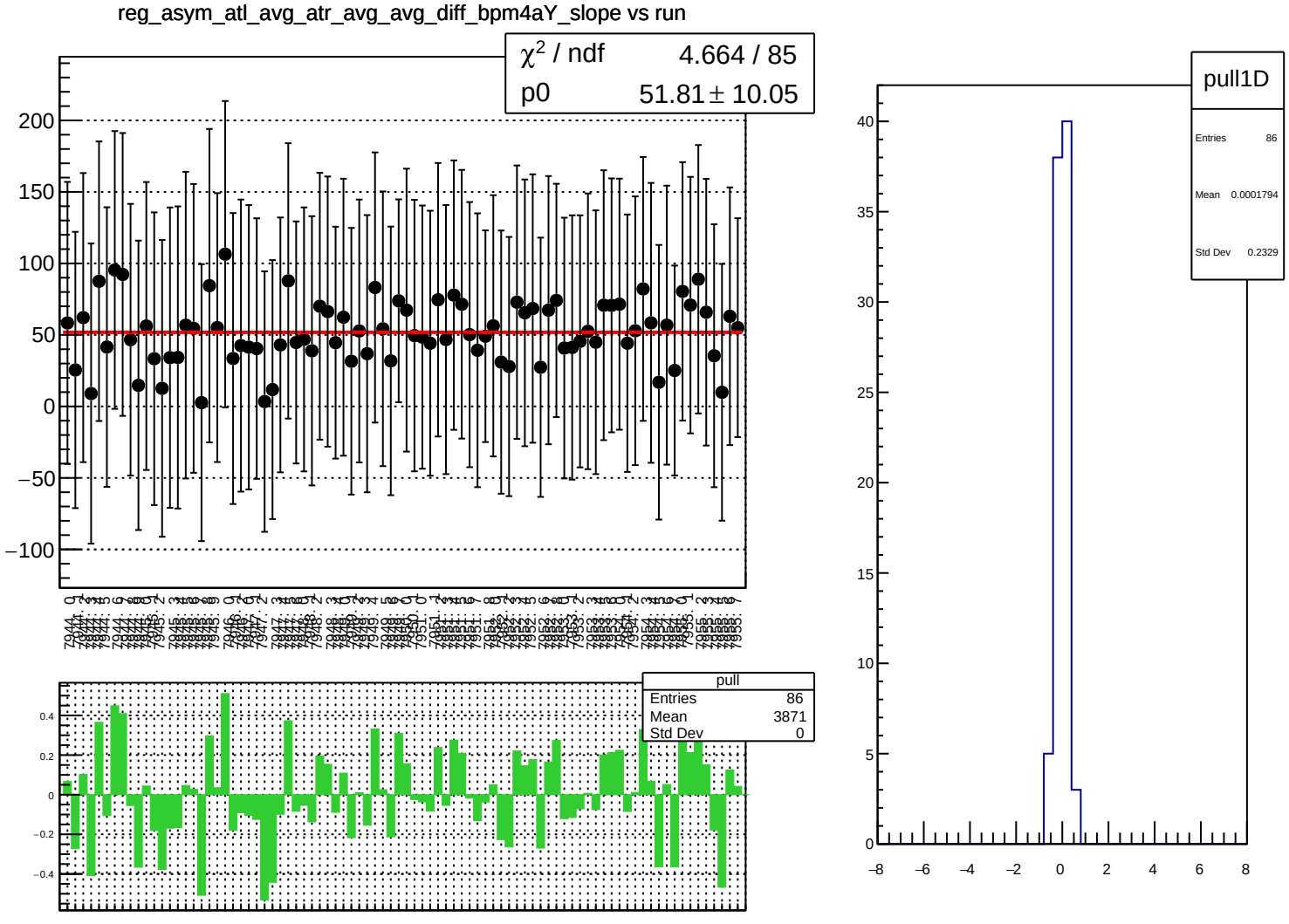

pull1D
Entries 86
Mean −0.001681
Std Dev 0.6939

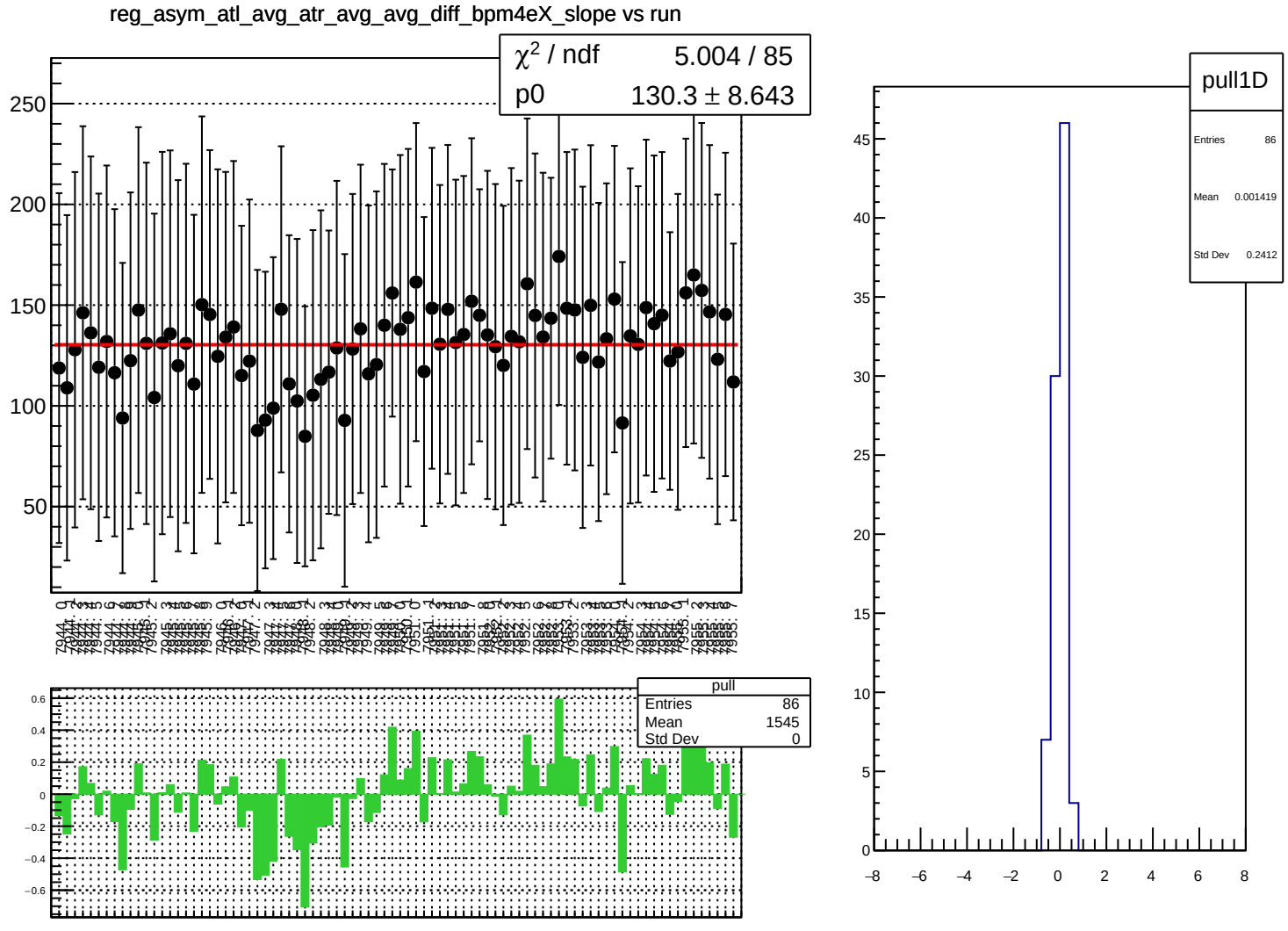

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.68 / 85
p0 −16.59 ± 3.62
pull
Entries 86
Mean 540.5
Std Dev 0

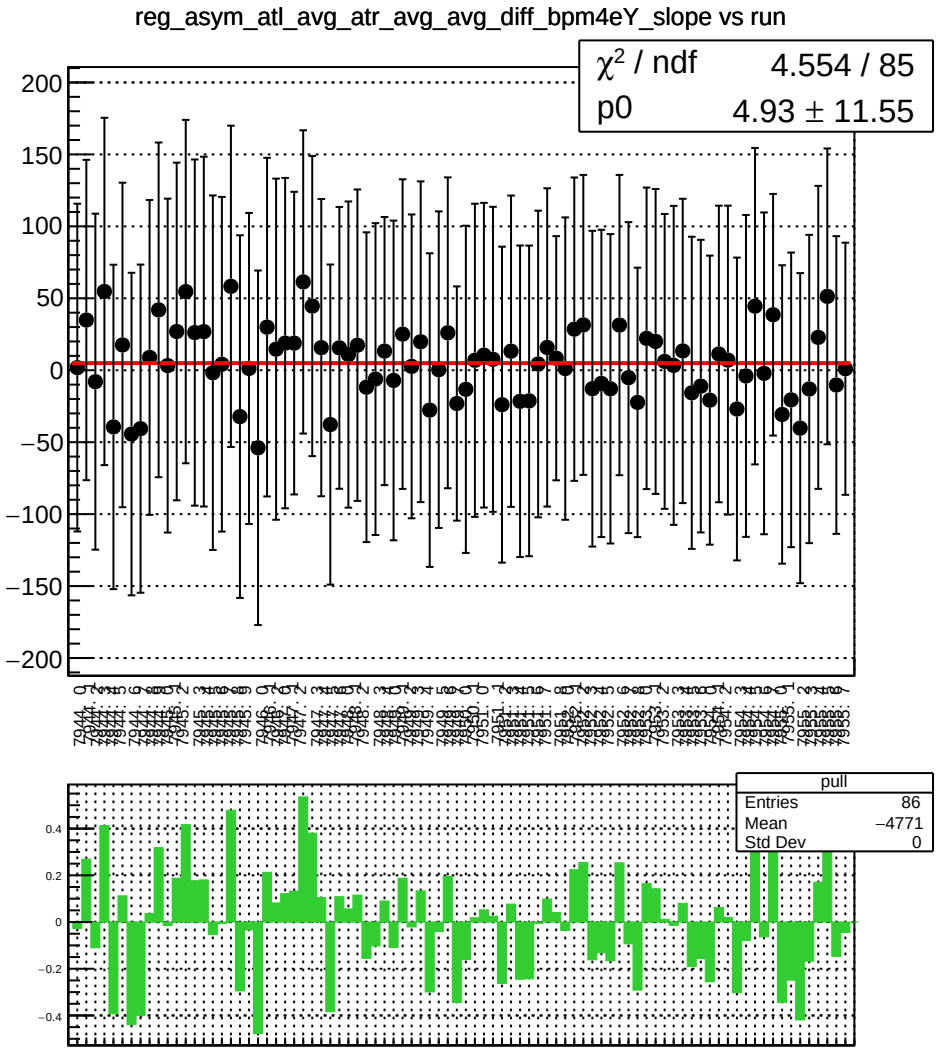

pull1D
Entries 86
Mean 0.003333
Std Dev 0.5673

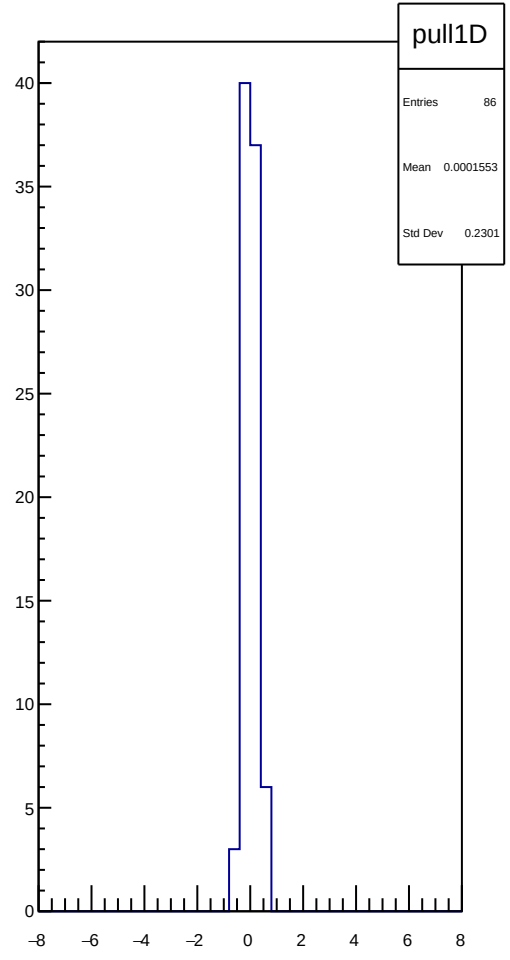

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 53.45 / 85
p0 3.034 ± 0.102
pull
Entries 86
Mean −556.7
Std Dev 0
pull1D
Entries 86
Mean 0.01978
Std Dev 0.7881

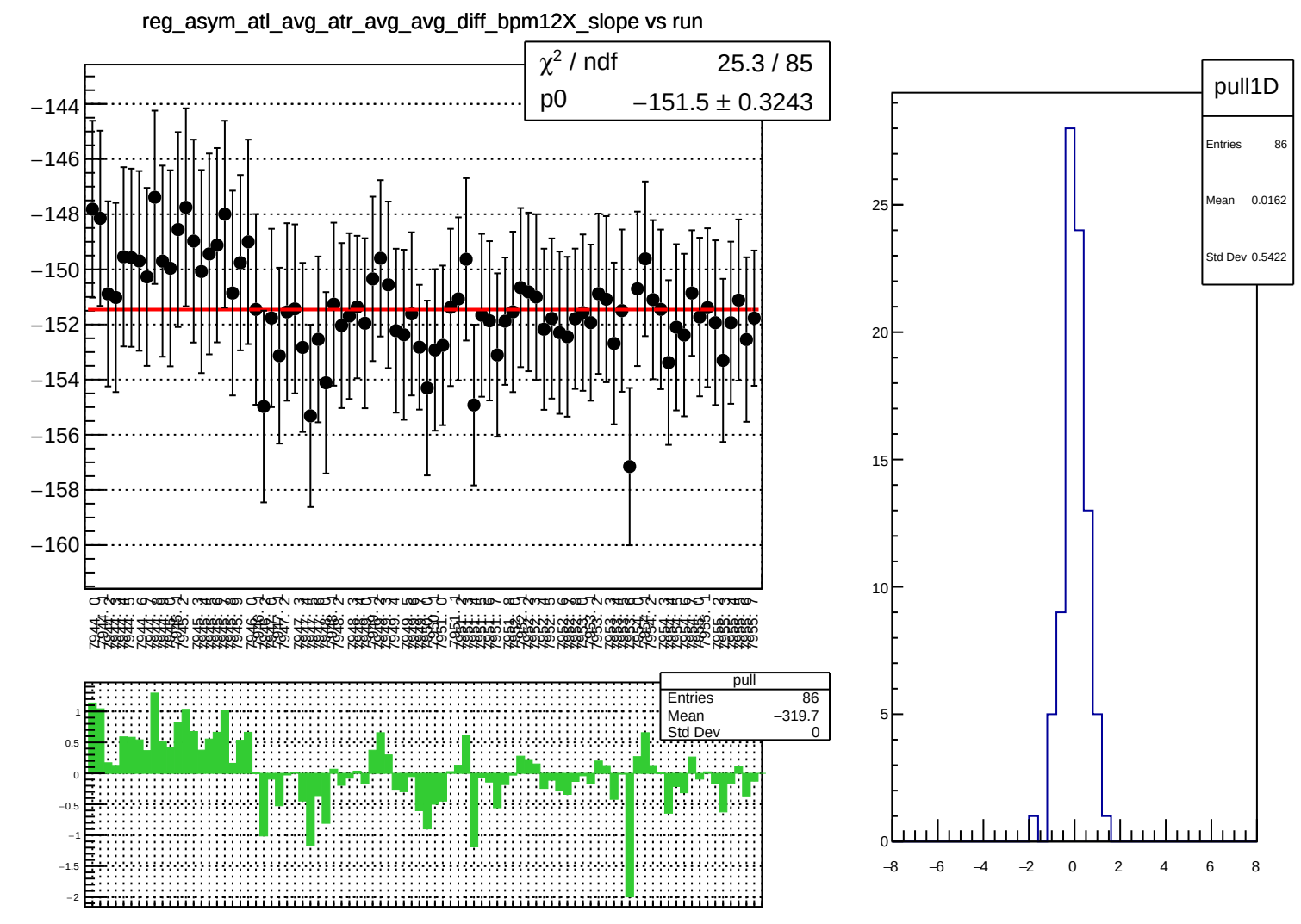

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.705 / 85
p0 −139 ± 9.73
pull
Entries 86
Mean −9885
Std Dev 0
pull1D
Entries 86
Mean 0.0001976
Std Dev 0.2339

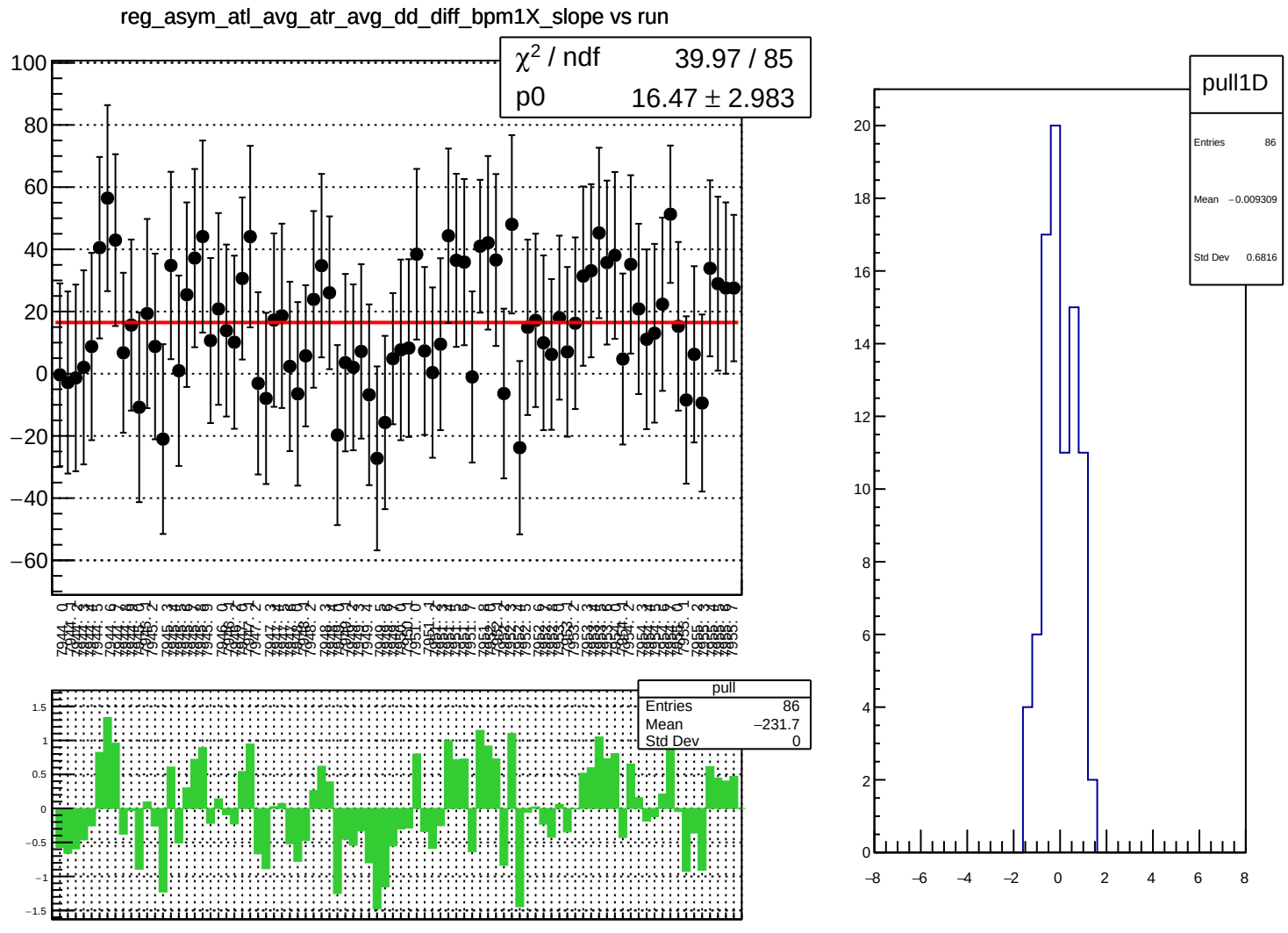

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.664 / 85
p0 51.81 ± 10.05
pull
Entries 86
Mean 3871
Std Dev 0
pull1D
Entries 86
Mean 0.0001794
Std Dev 0.2329

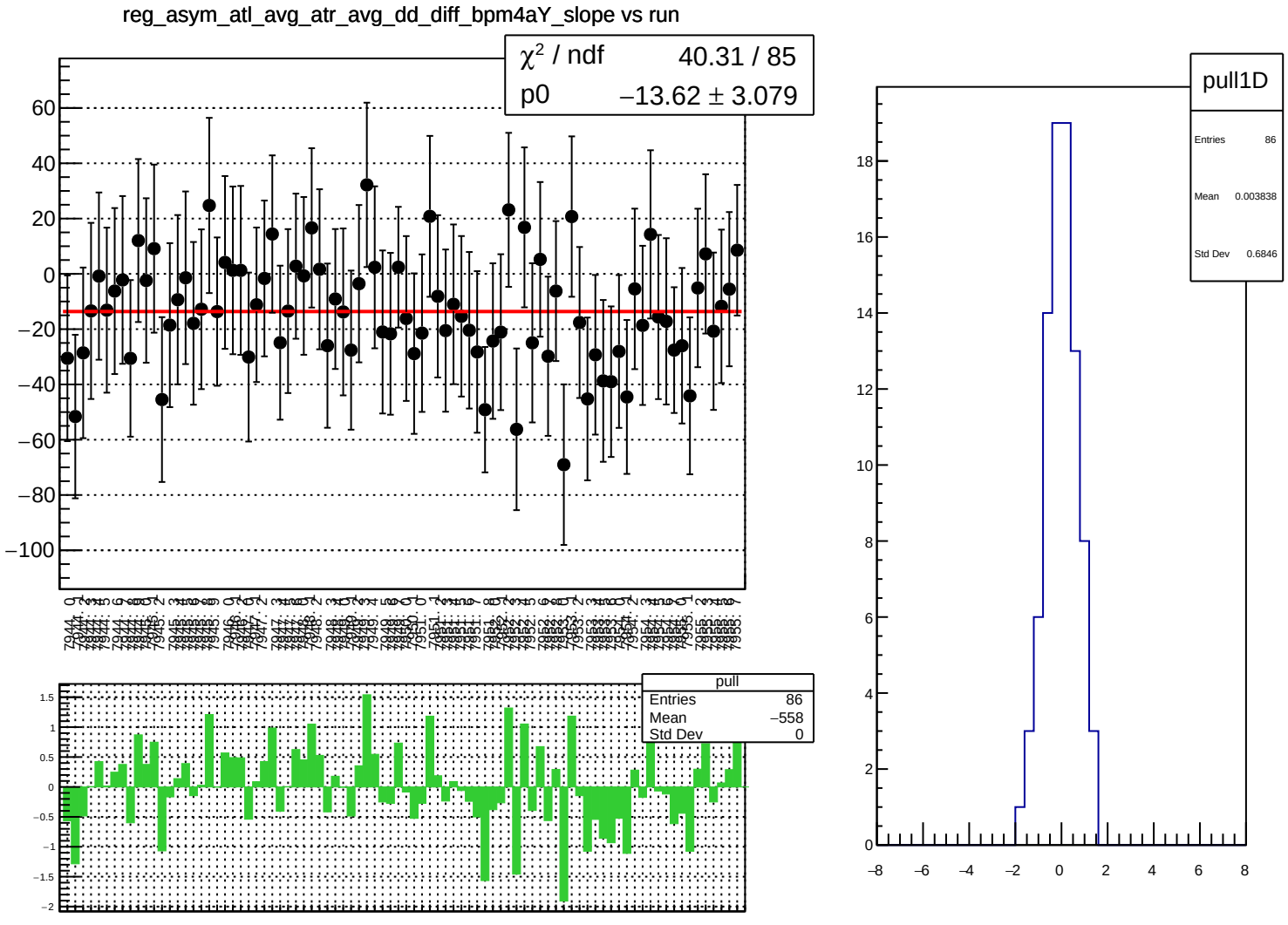

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.004 / 85
p0 130.3 ± 8.643
250
200
150
100
50
pull
Entries 86
Mean 1545
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 86
Mean 0.001419
Std Dev 0.2412
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

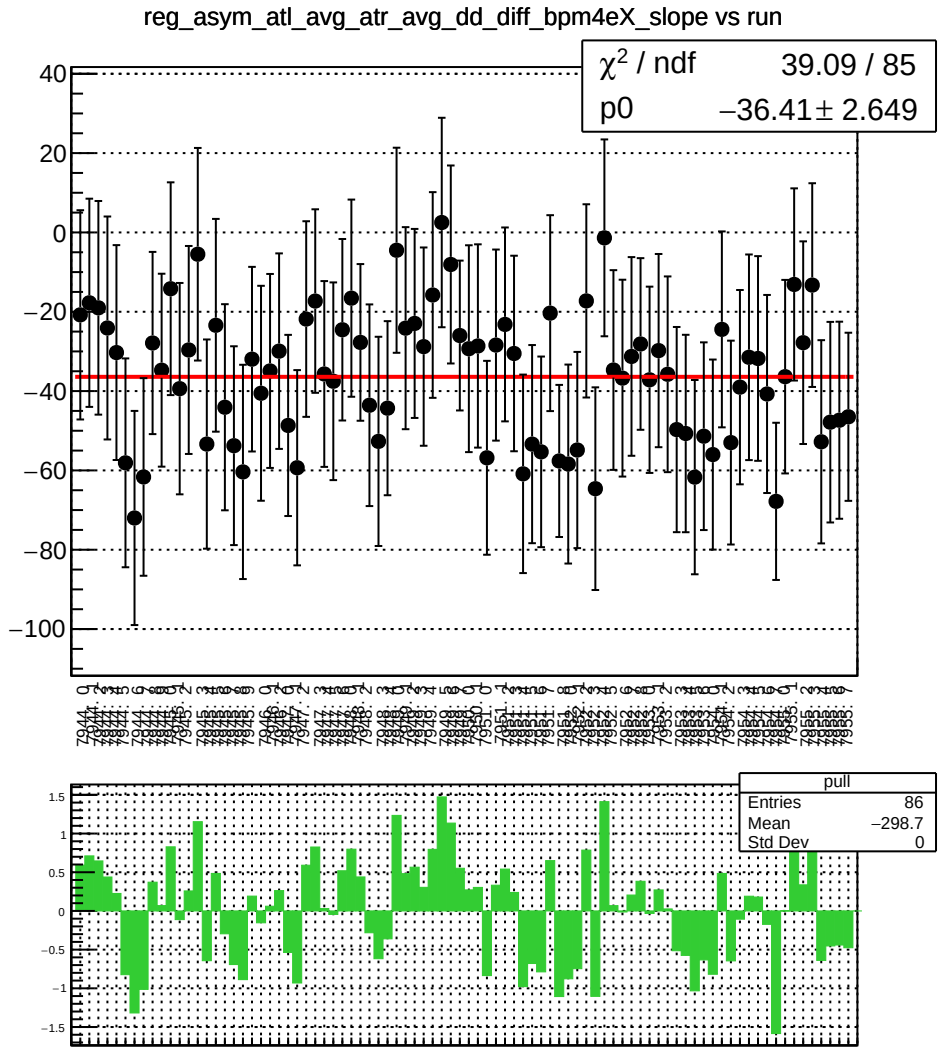

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.554 / 85
p0 4.93 ± 11.55
pull
Entries 86
Mean −4771
Std Dev 0

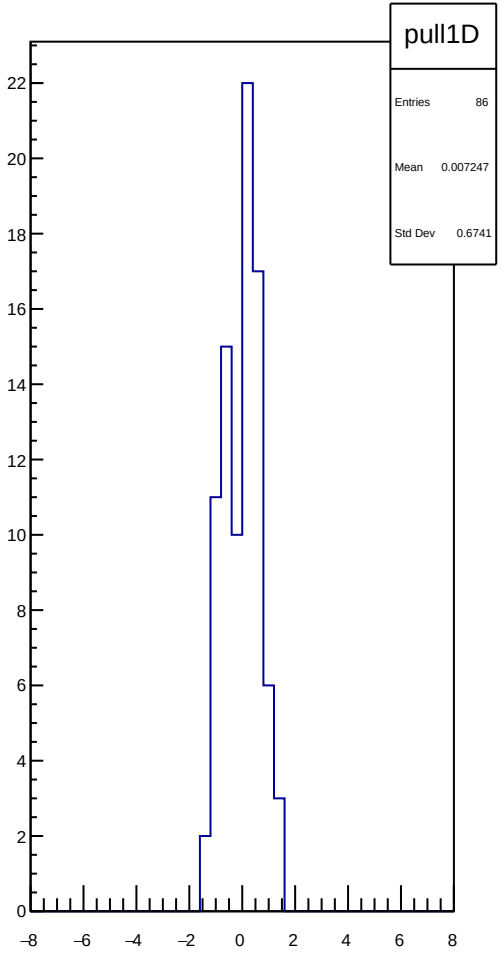

pull1D
Entries 86
Mean 0.0001553
Std Dev 0.2301

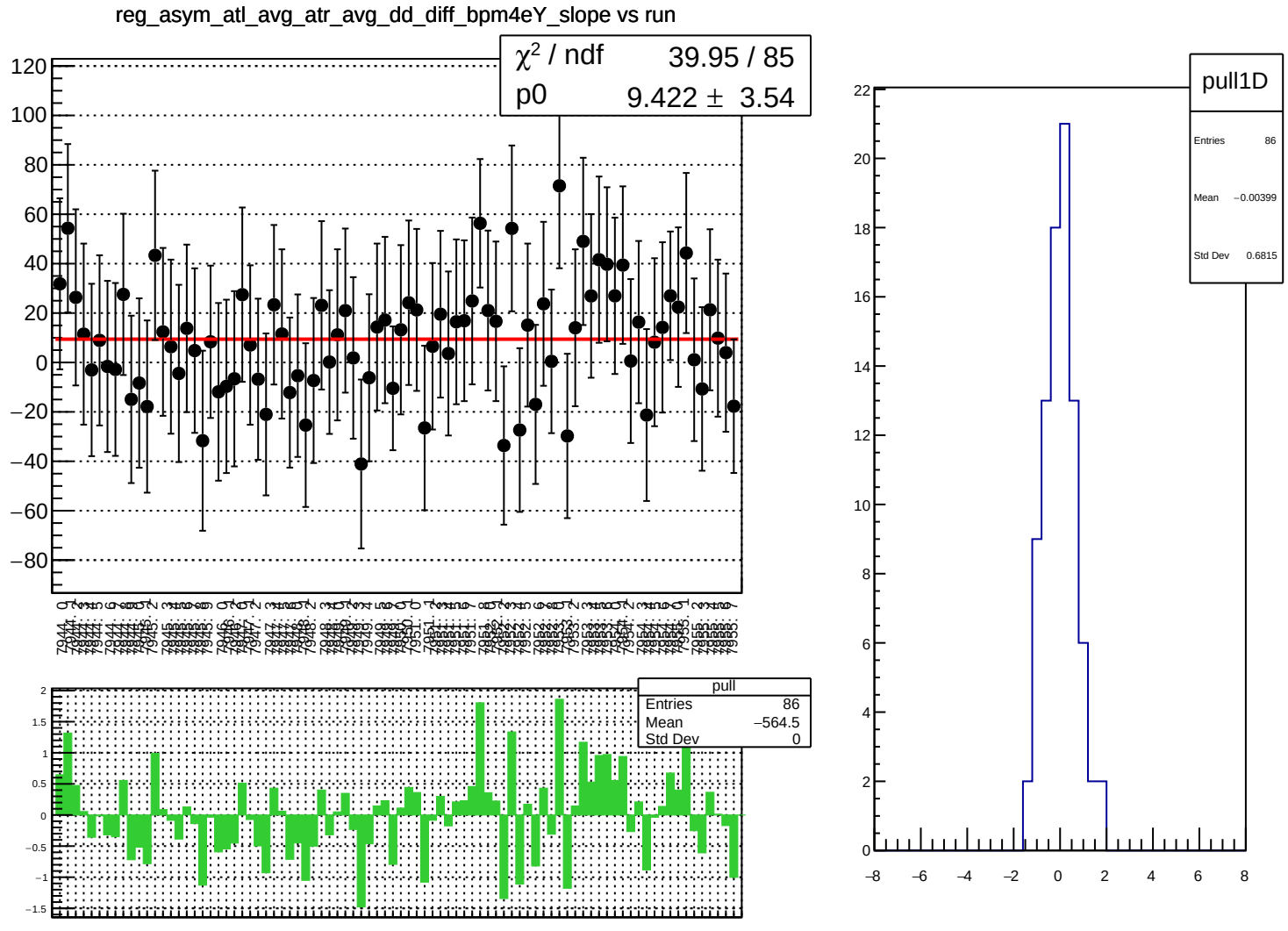

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 25.3 / 85
p0 −151.5 ± 0.3243
−144
−146
−148
−150
−152
−154
−156
−158
−160
pull
Entries 86
Mean −319.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean 0.0162
Std Dev 0.5422
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

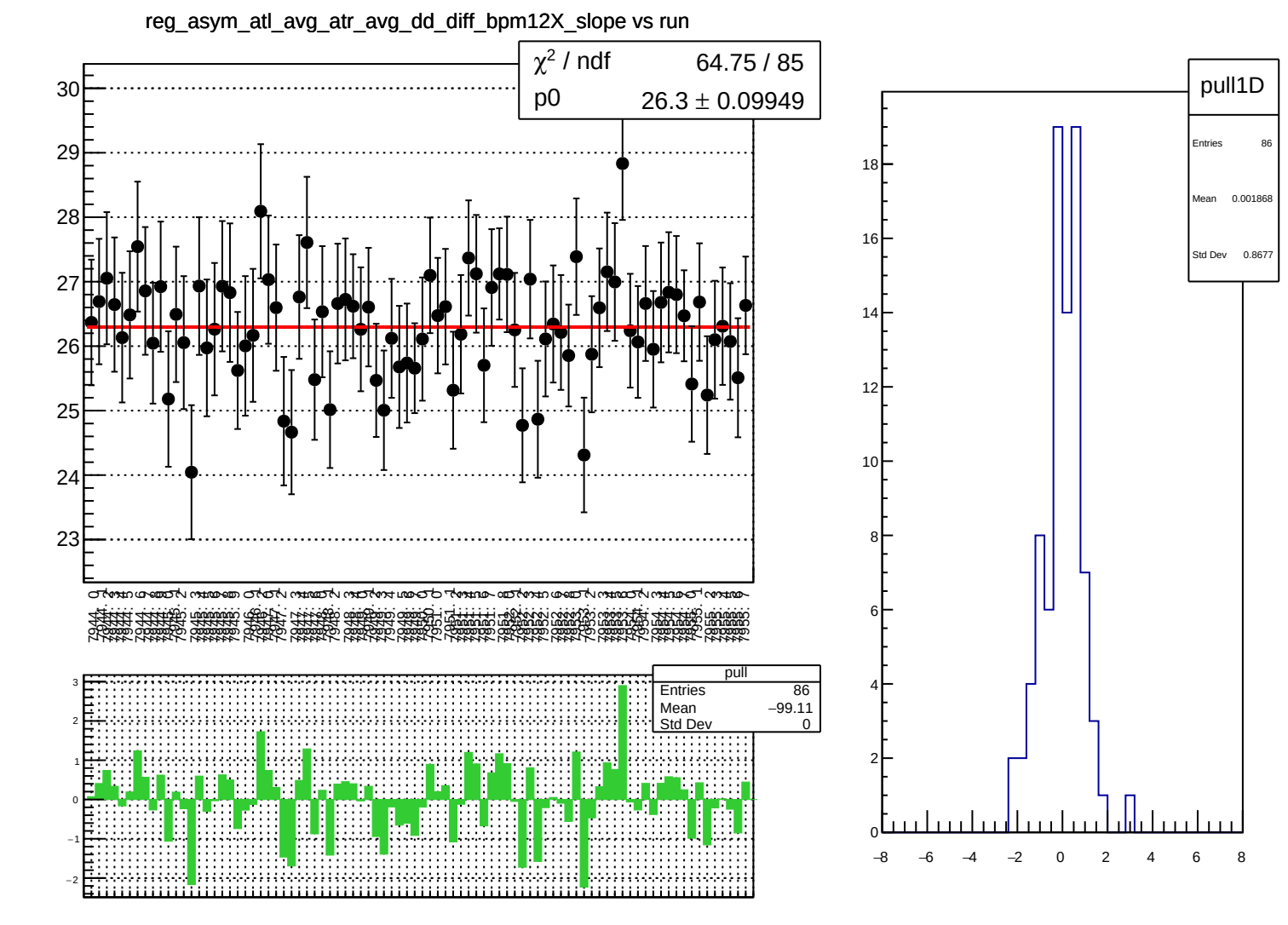

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 39.97 / 85
p0 16.47 ± 2.983
pull
Entries 86
Mean −231.7
Std Dev 0
pull1D
Entries 86
Mean −0.009309
Std Dev 0.6816

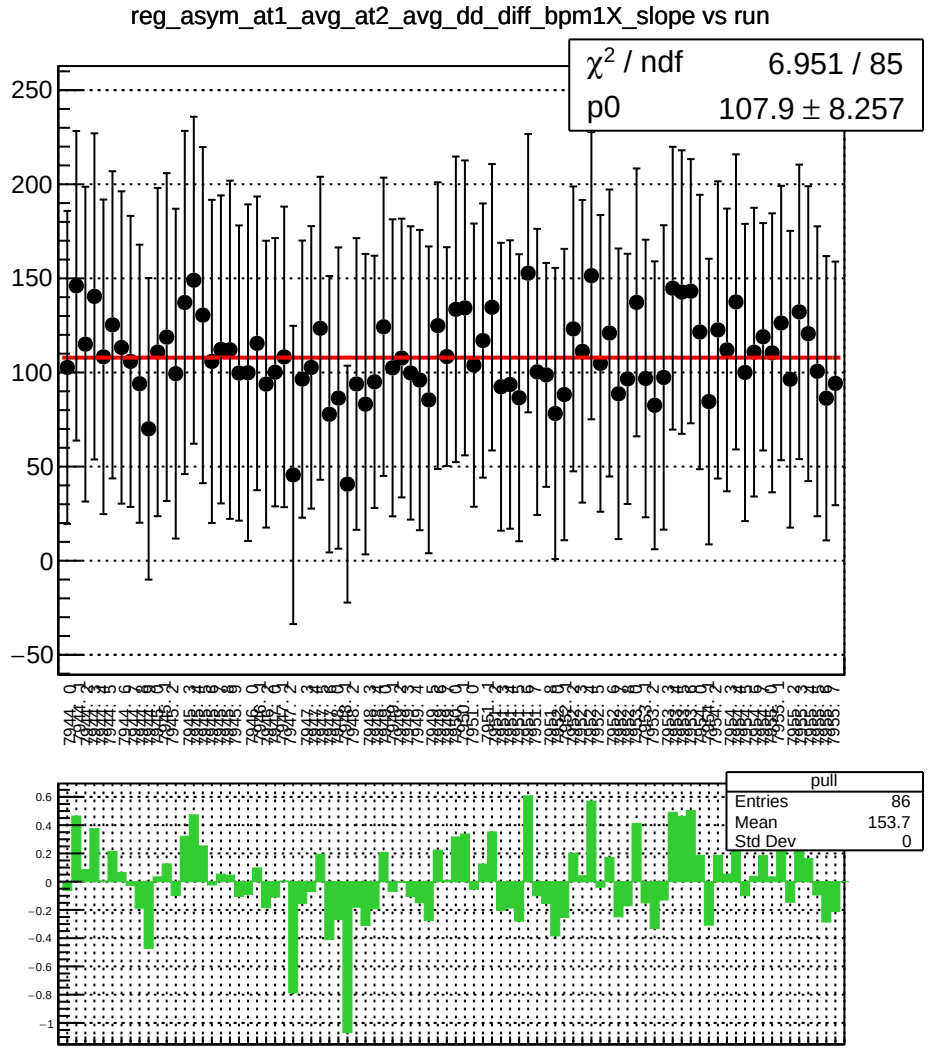

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.31 / 85
p0 −13.62 ± 3.079
pull
Entries 86
Mean −558
Std Dev 0
pull1D
Entries 86
Mean 0.003838
Std Dev 0.6846

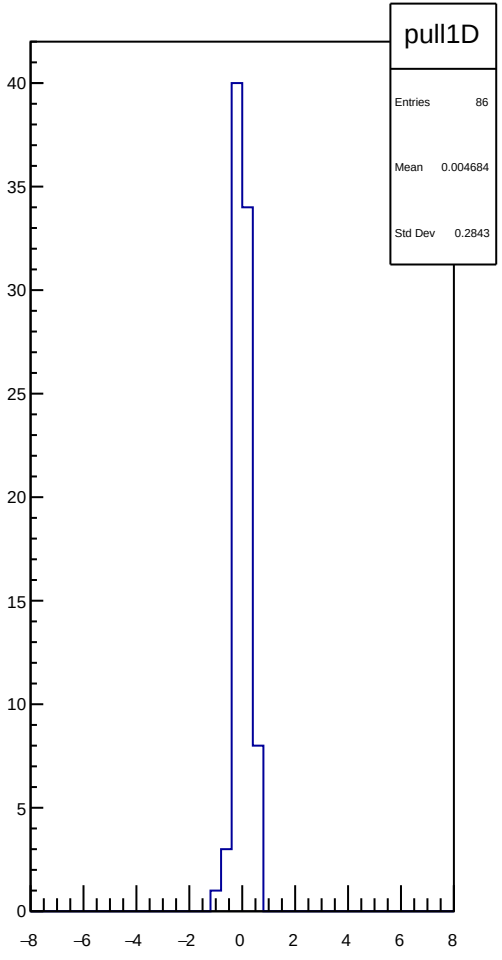

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.09 / 85
p0 −36.41 ± 2.649
pull
Entries 86
Mean −298.7
Std Dev 0

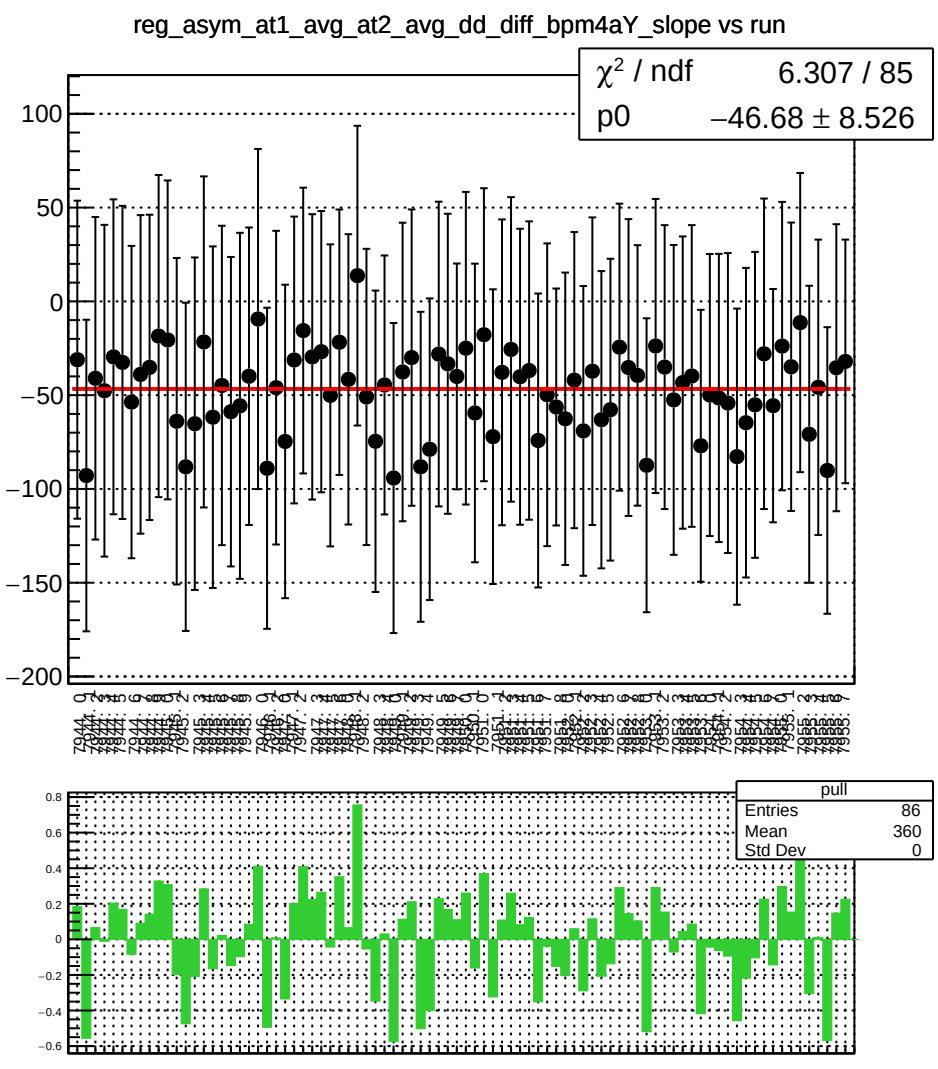

pull1D
Entries 86
Mean 0.007247
Std Dev 0.6741

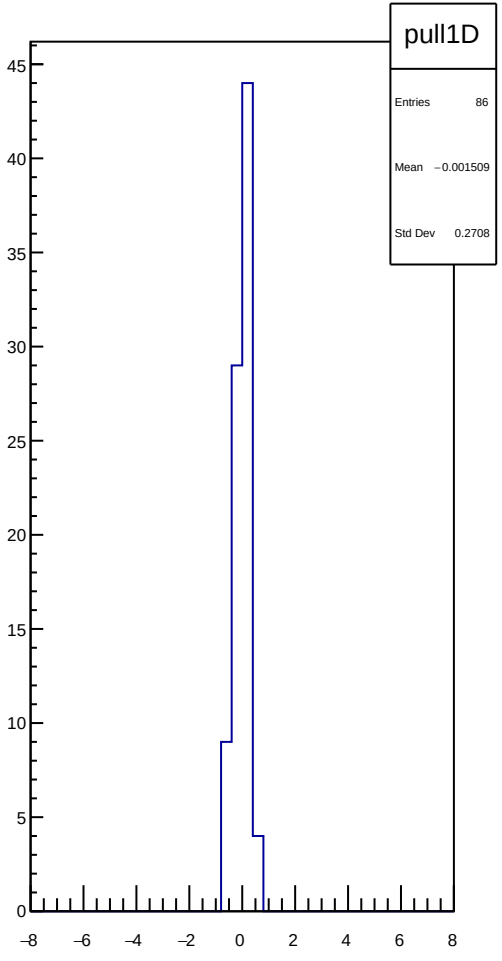

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.95 / 85
p0 9.422 ± 3.54
pull
Entries 86
Mean −564.5
Std Dev 0
pull1D
Entries 86
Mean −0.00399
Std Dev 0.6815

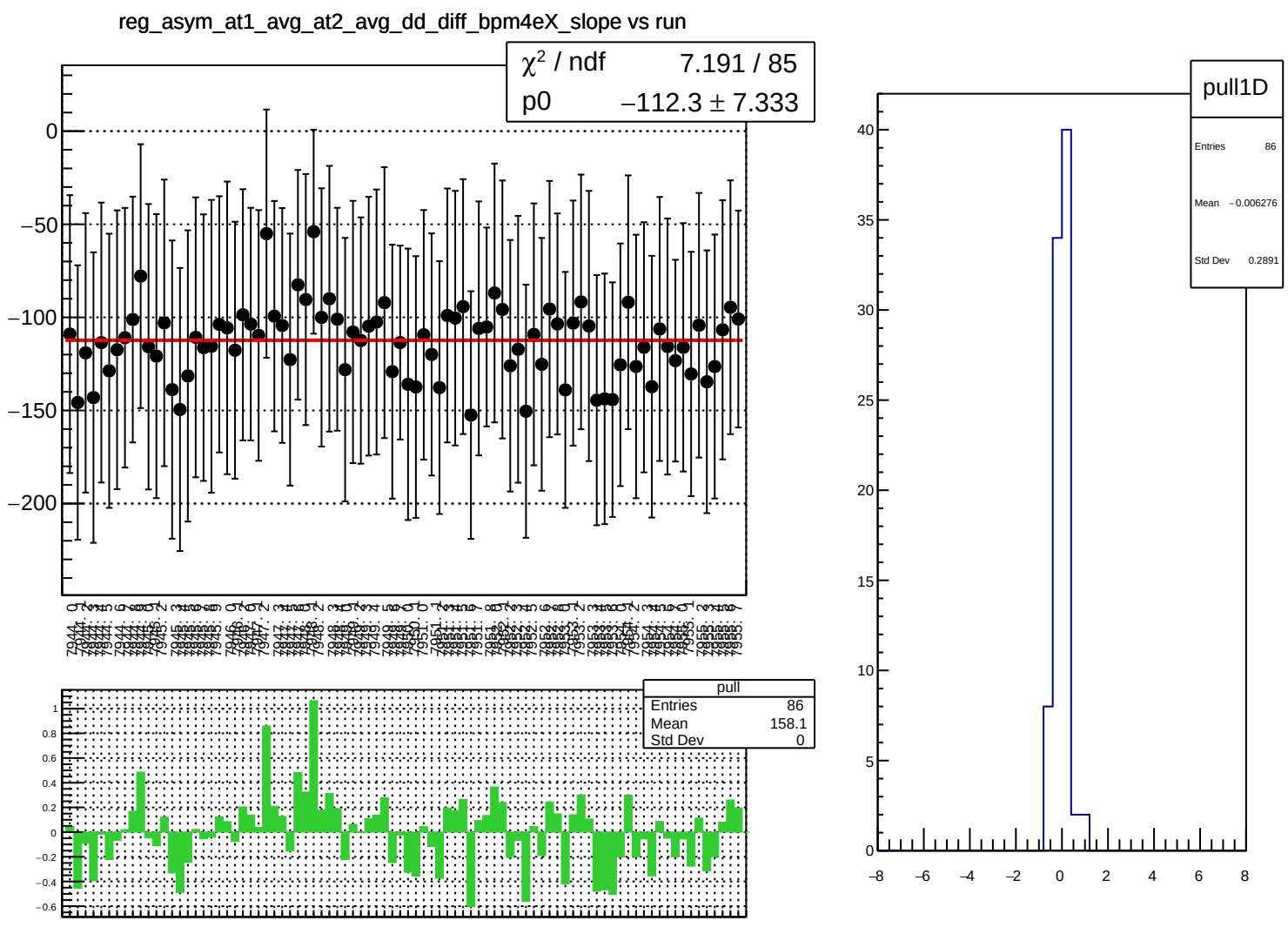

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 64.75 / 85
p0 26.3 ± 0.09949
pull
Entries 86
Mean −99.11
Std Dev 0
pull1D
Entries 86
Mean 0.001868
Std Dev 0.8677

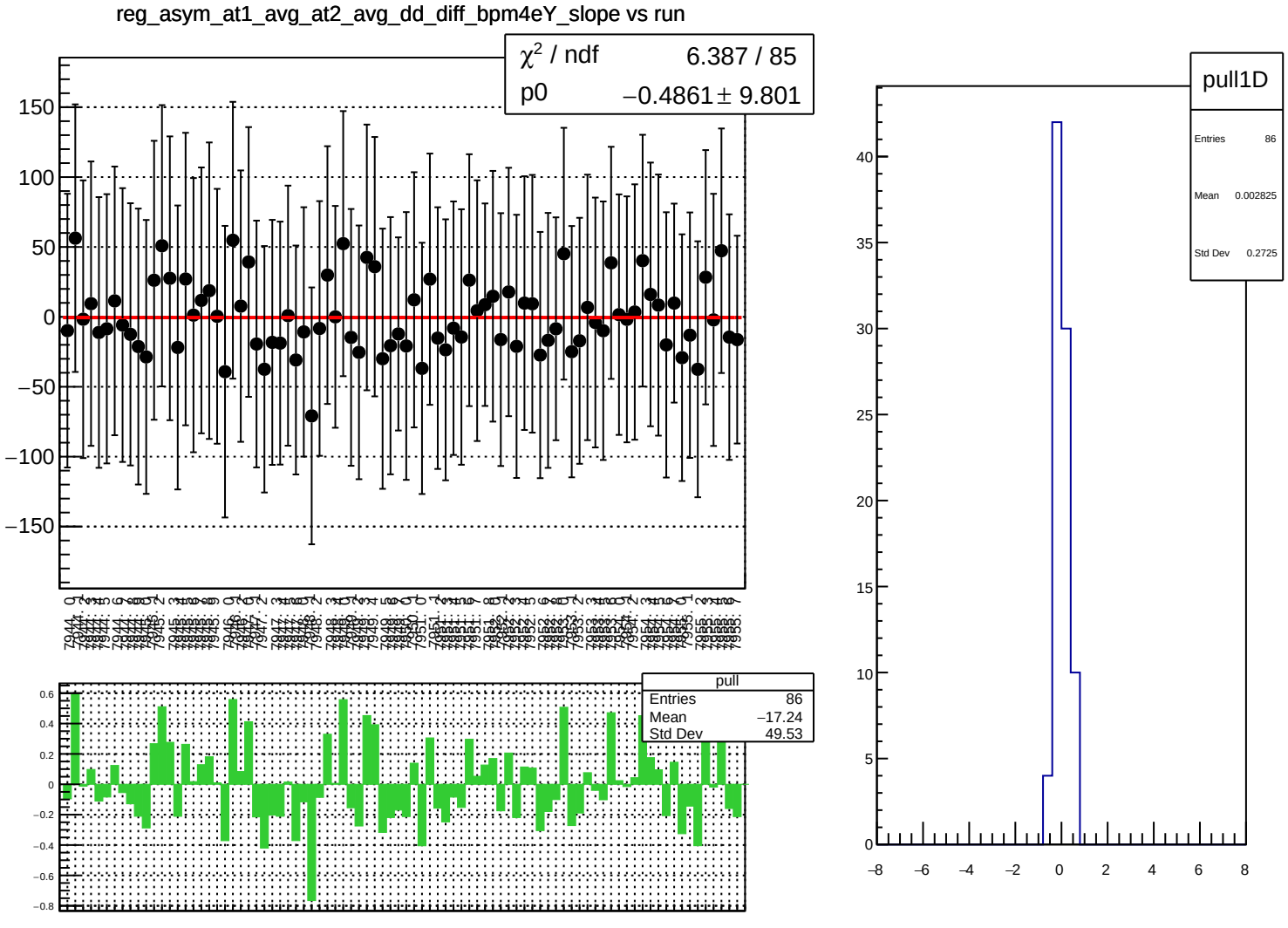

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 6.951 / 85
p0 107.9 ± 8.257
pull
Entries 86
Mean 153.7
Std Dev 0

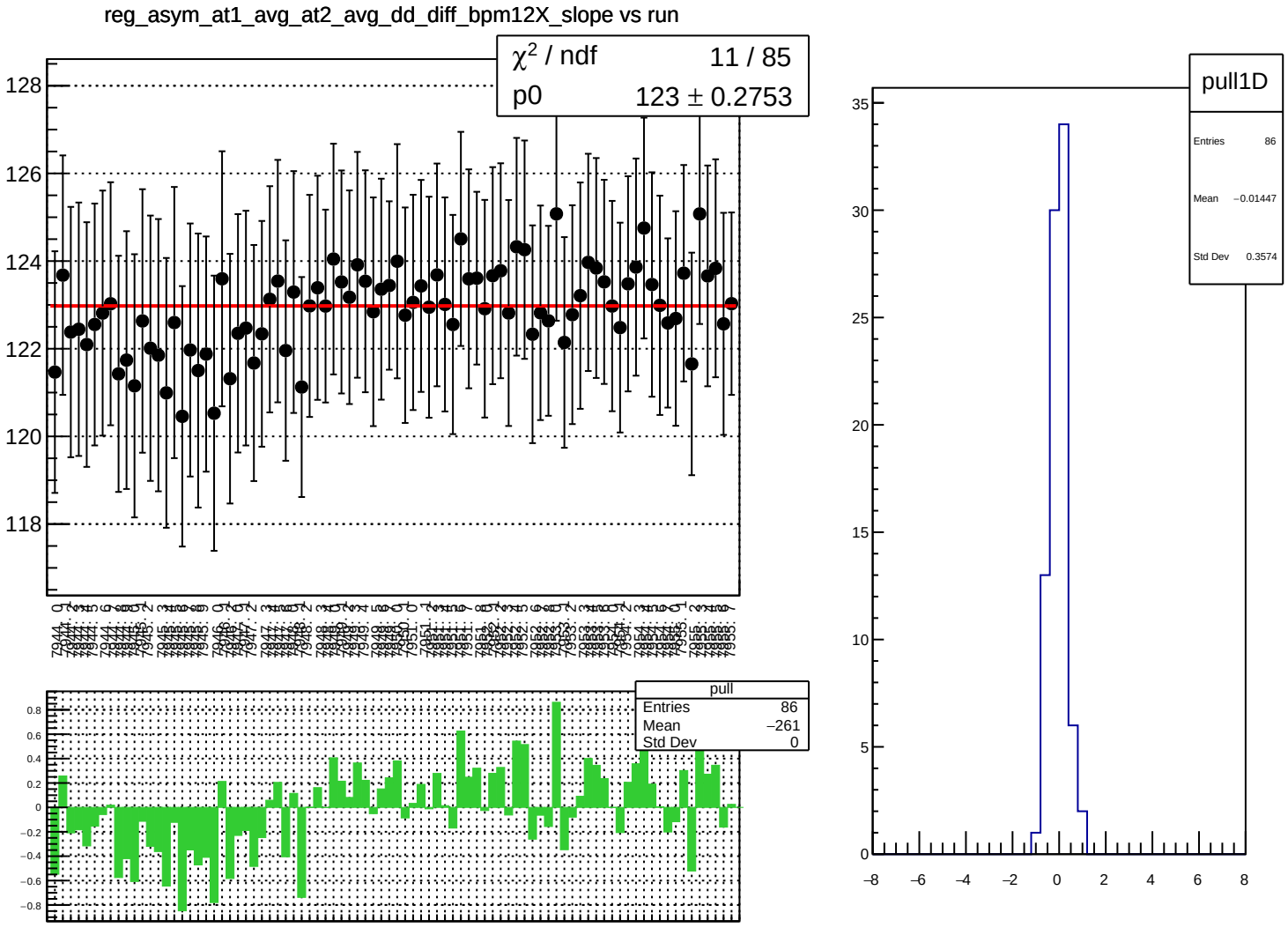

pull1D
Entries 86
Mean 0.004684
Std Dev 0.2843

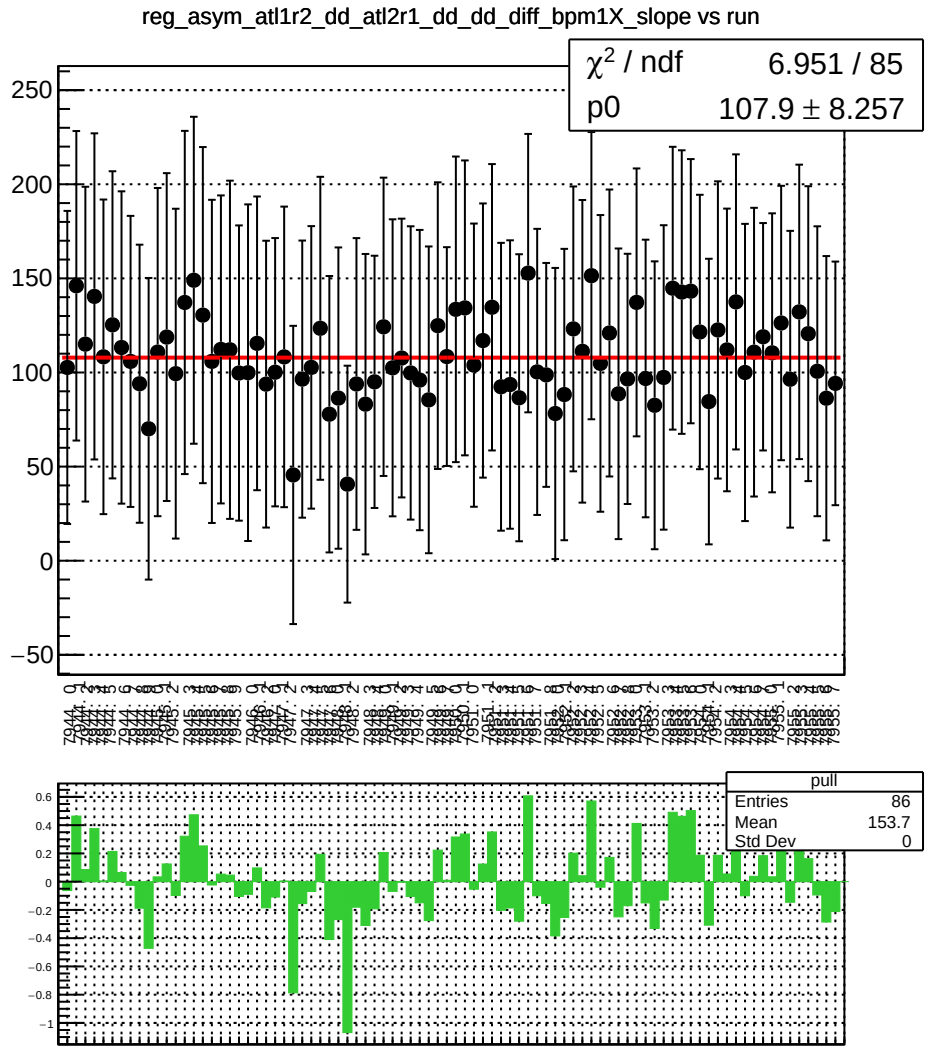

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.307 / 85
p0 −46.68 ± 8.526
pull
Entries 86
Mean 360
Std Dev 0

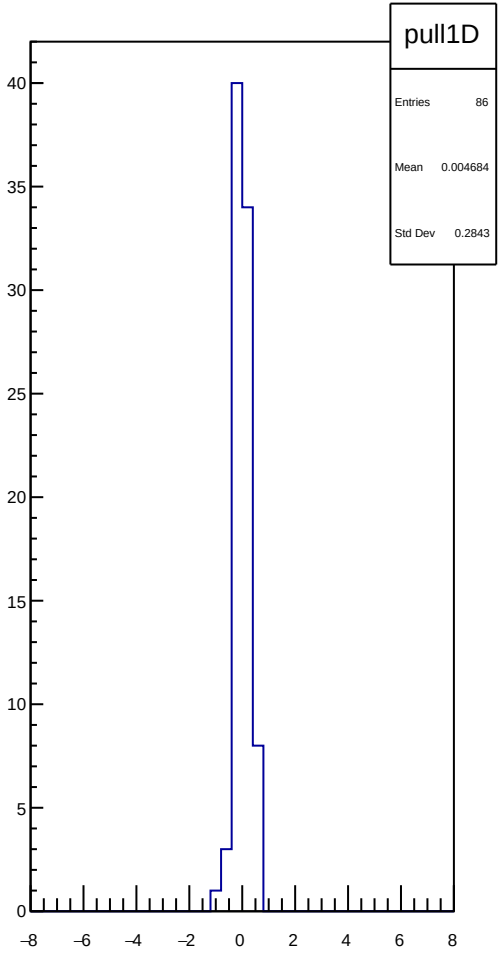

pull1D
Entries 86
Mean −0.001509
Std Dev 0.2708

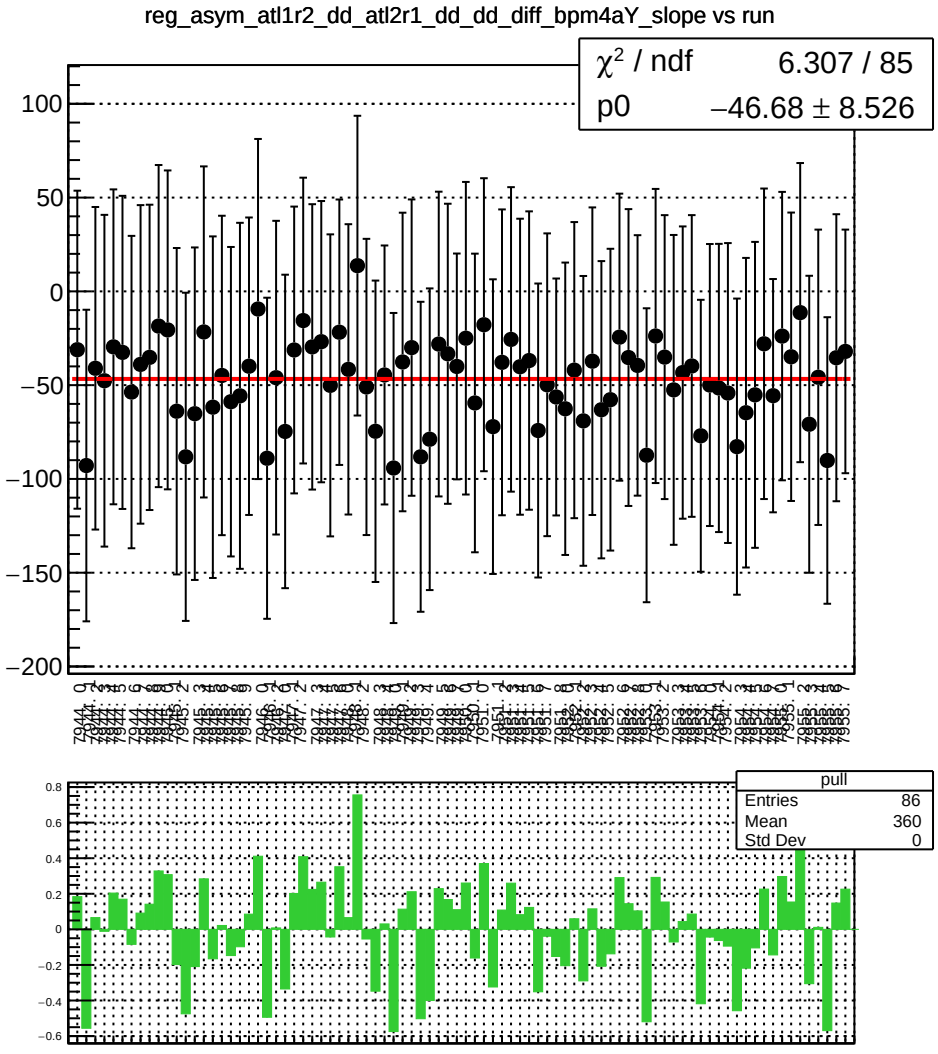

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.191 / 85
p0 −112.3 ± 7.333
0
−50
−100
−150
−200
pull
Entries 86
Mean 158.1
Std Dev 0
pull1D
Entries 86
Mean −0.006276
Std Dev 0.2891

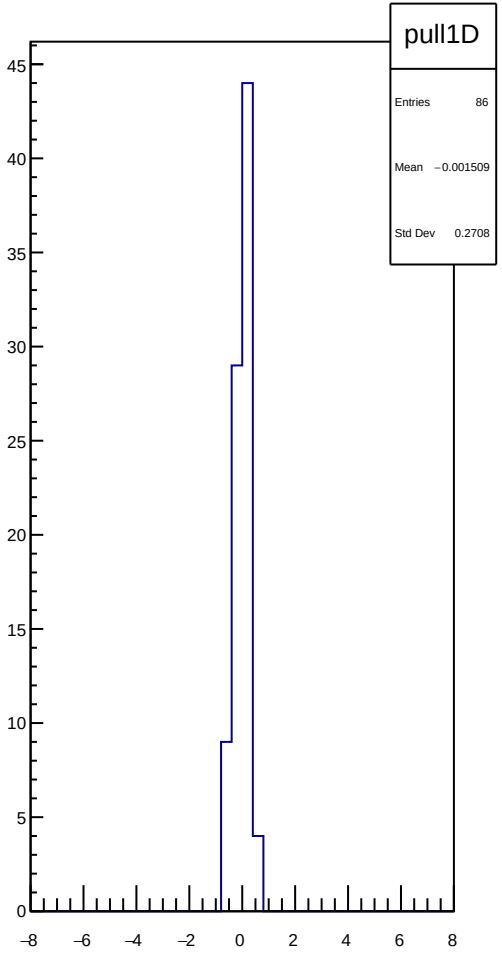

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.387 / 85
p0 −0.4861 ± 9.801
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −17.24
Std Dev 49.53
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 86
Mean 0.002825
Std Dev 0.2725
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

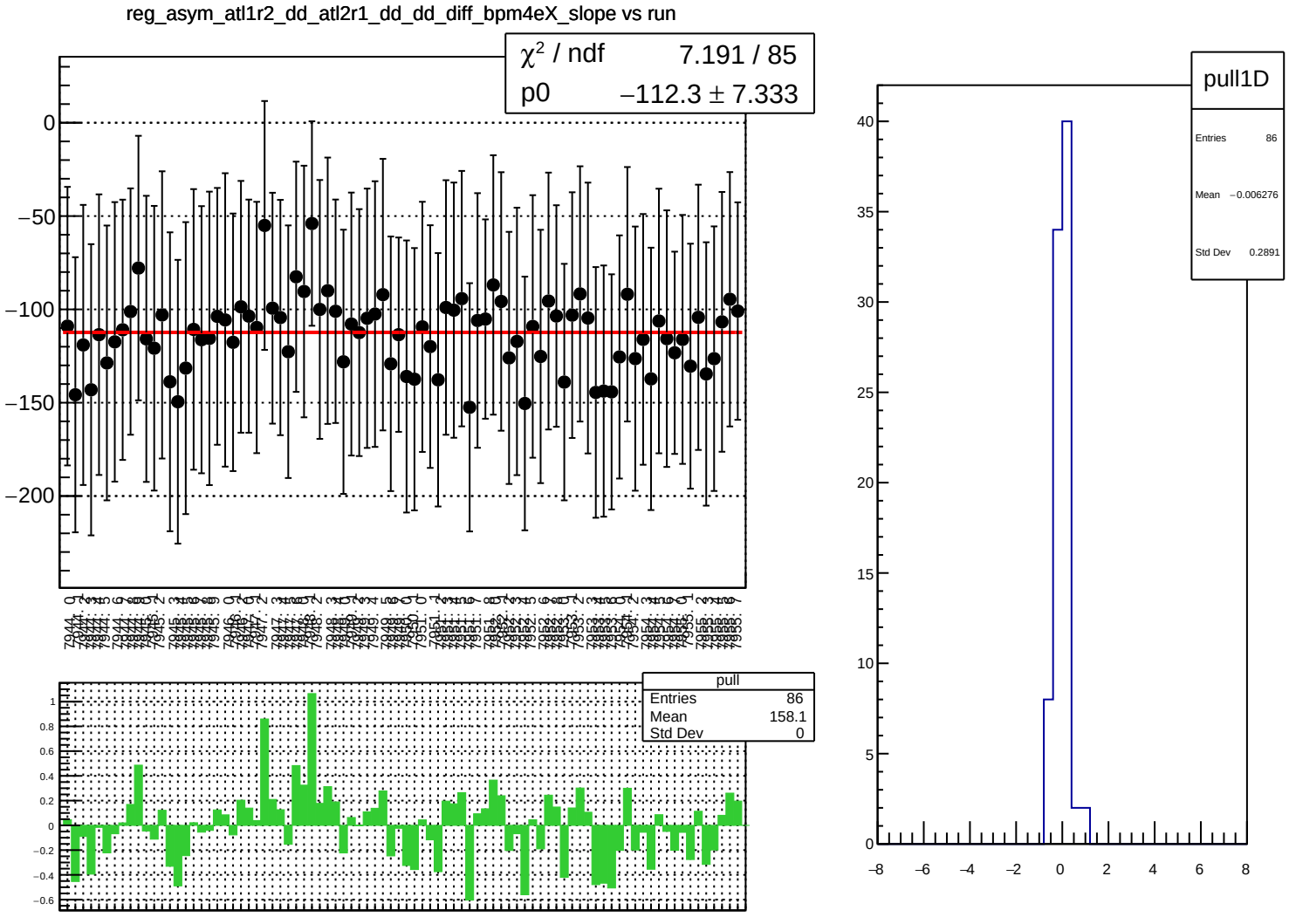

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 11 / 85
p0 123 ± 0.2753
128
126
124
122
120
118
pull
Entries 86
Mean −261
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 86
Mean −0.01447
Std Dev 0.3574
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

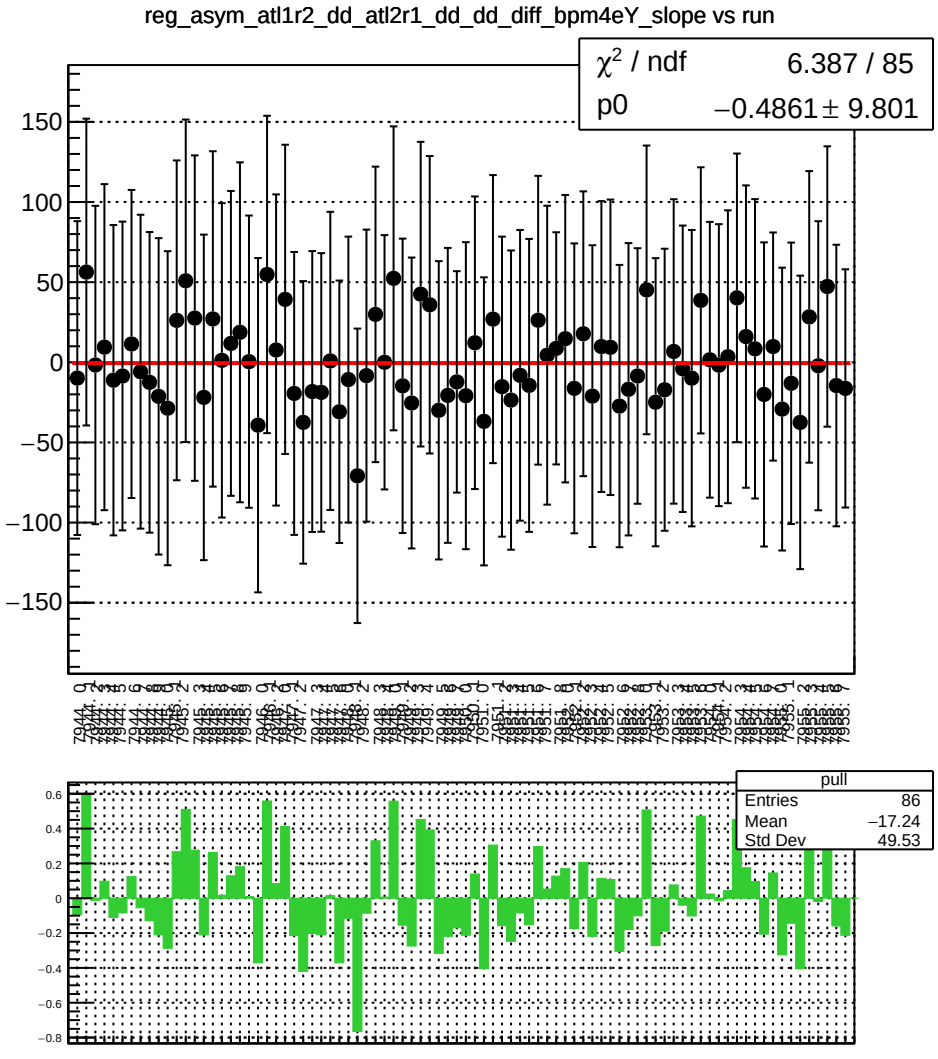

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 6.951 / 85
p0 107.9 ± 8.257
pull
Entries 86
Mean 153.7
Std Dev 0

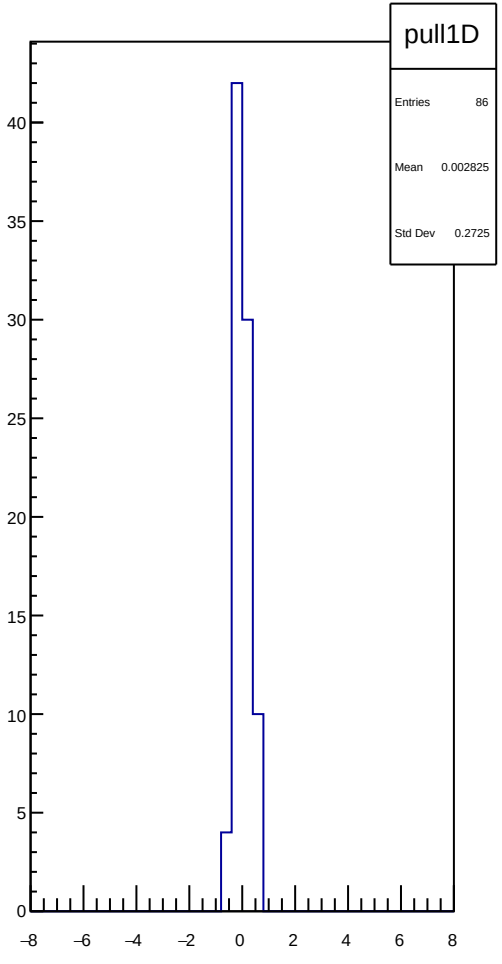

pull1D
Entries 86
Mean 0.004684
Std Dev 0.2843

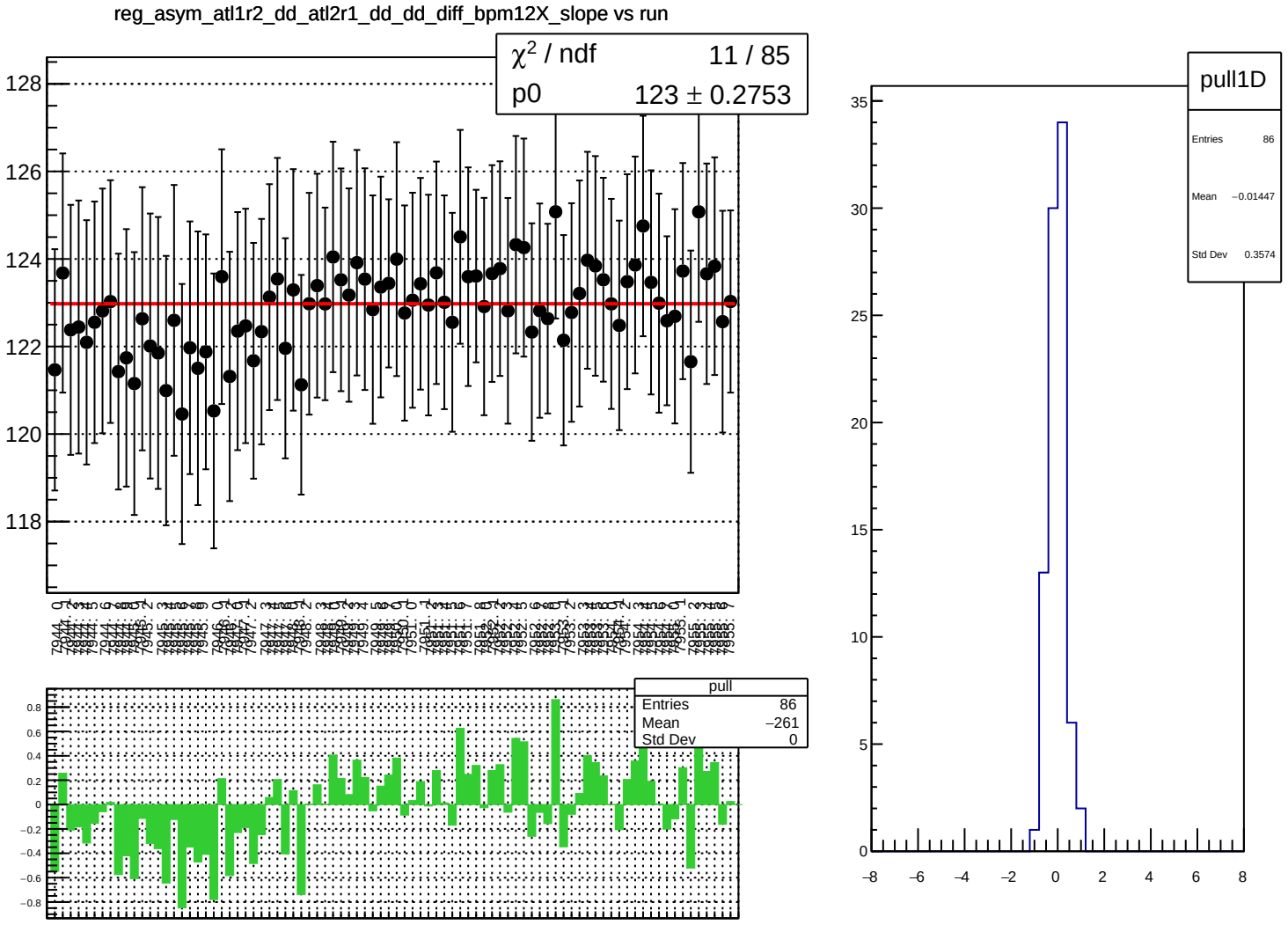

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.307 / 85
p0 −46.68 ± 8.526
pull
Entries 86
Mean 360
Std Dev 0

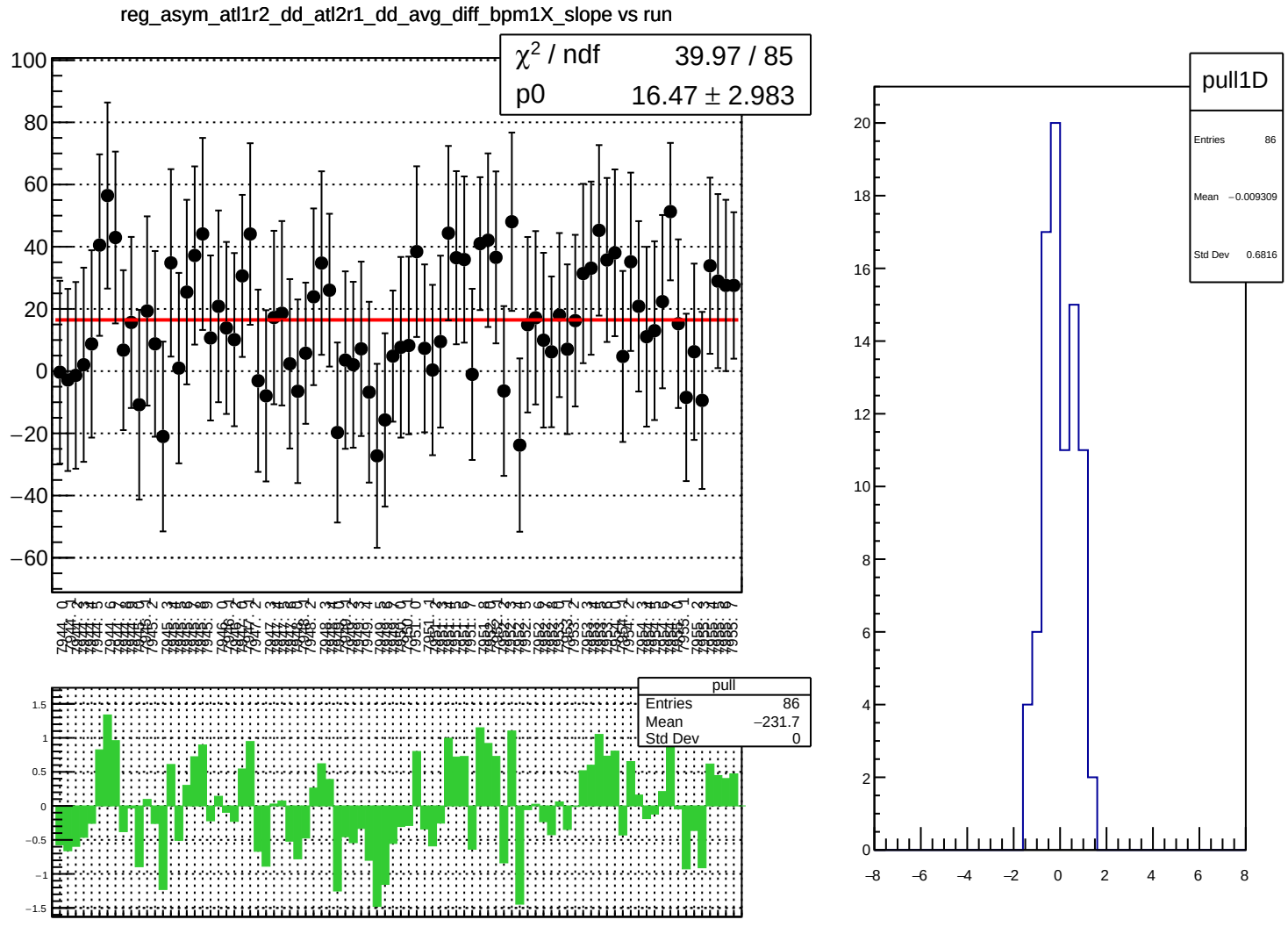

pull1D
Entries 86
Mean −0.001509
Std Dev 0.2708

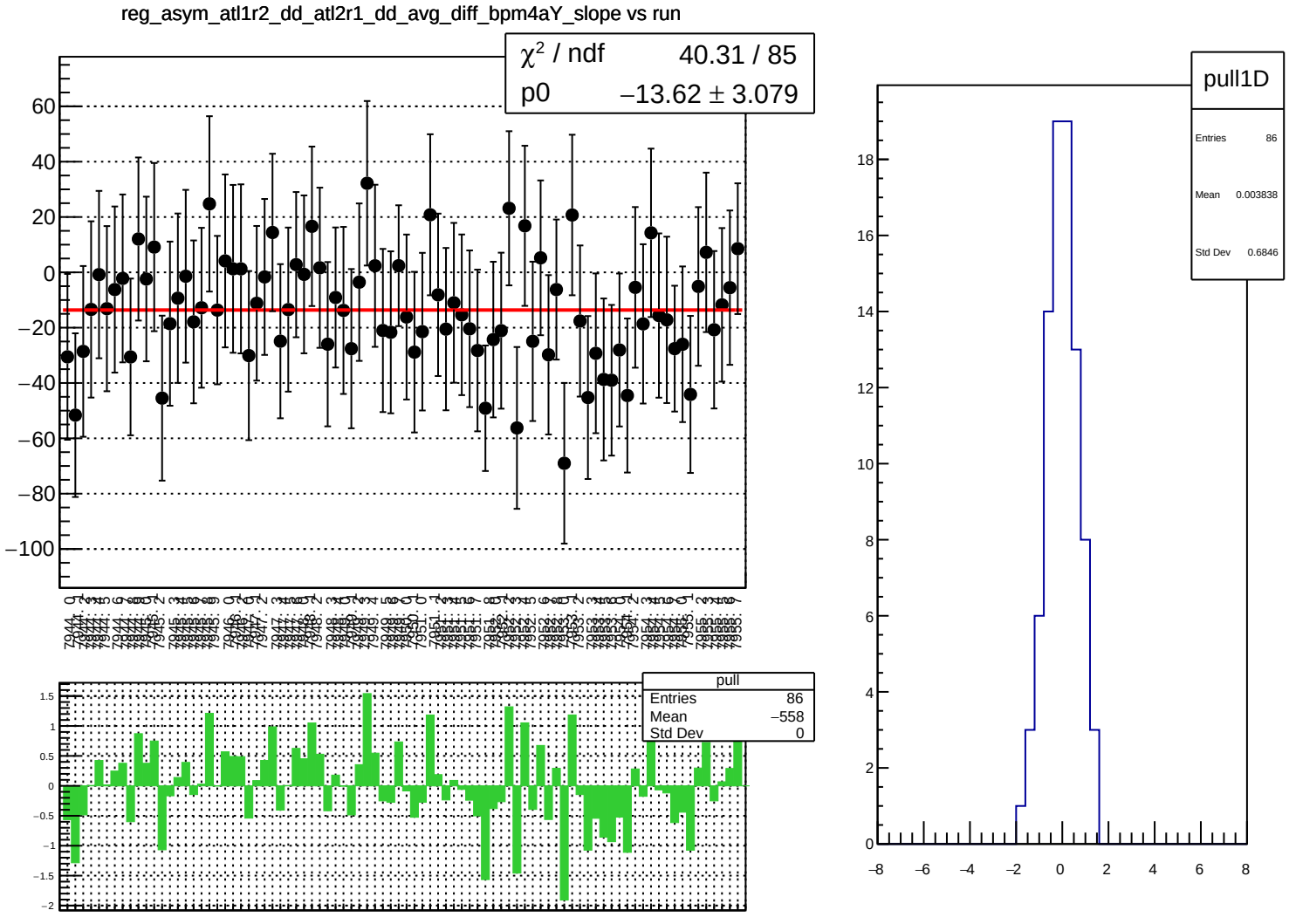

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.191 / 85
p0 −112.3 ± 7.333
0
−50
−100
−150
−200
pull
Entries 86
Mean 158.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 86
Mean −0.006276
Std Dev 0.2891
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

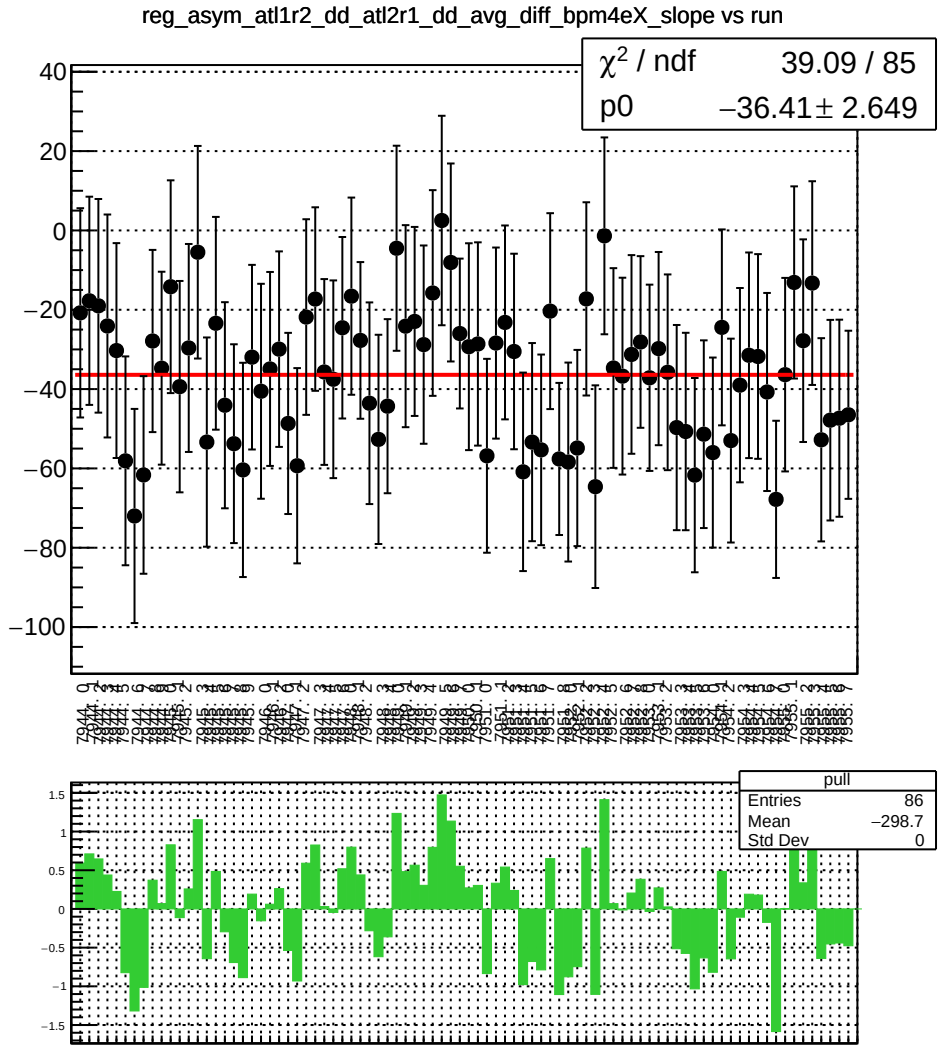

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.387 / 85
p0 −0.4861 ± 9.801
pull
Entries 86
Mean −17.24
Std Dev 49.53

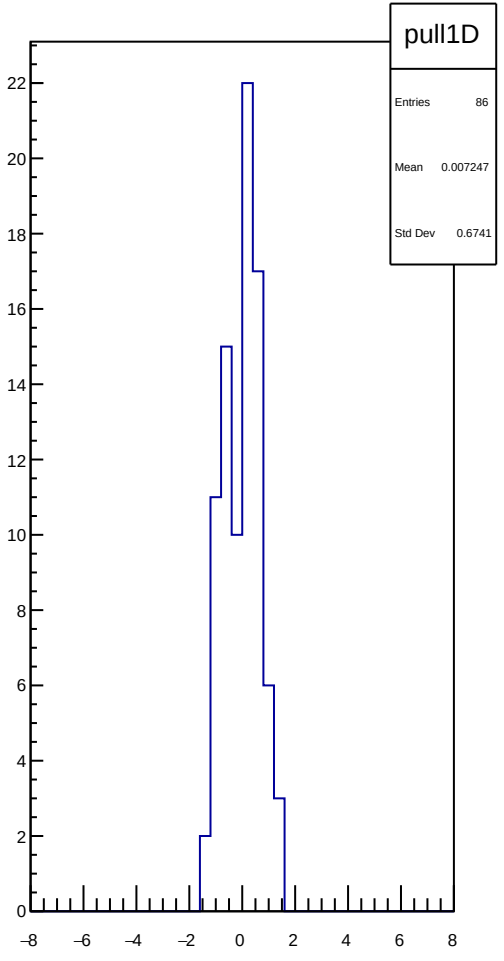

pull1D
Entries 86
Mean 0.002825
Std Dev 0.2725

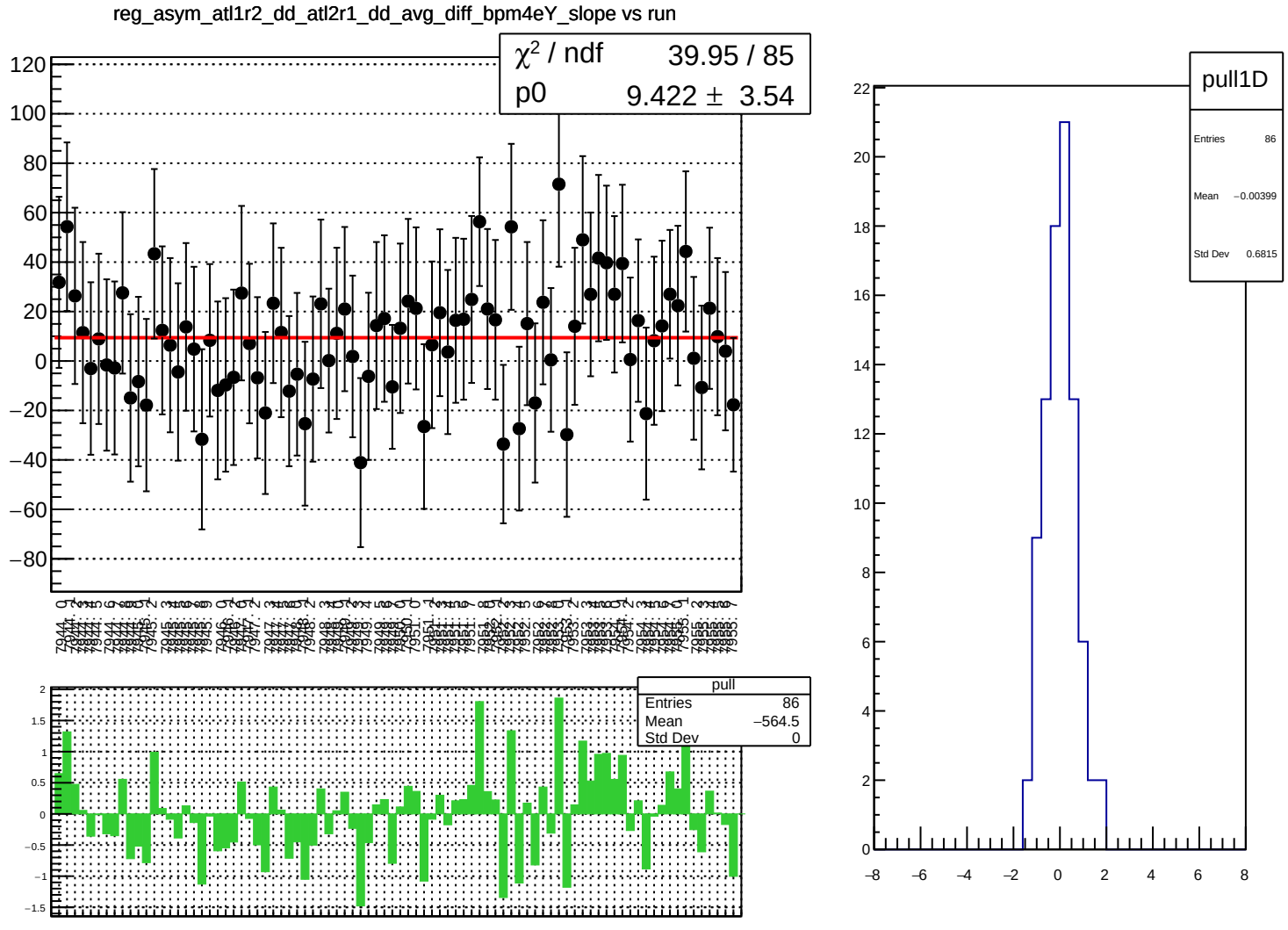

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 11 / 85
p0 123 ± 0.2753
128
126
124
122
120
118
pull
Entries 86
Mean −261
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 86
Mean −0.01447
Std Dev 0.3574
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

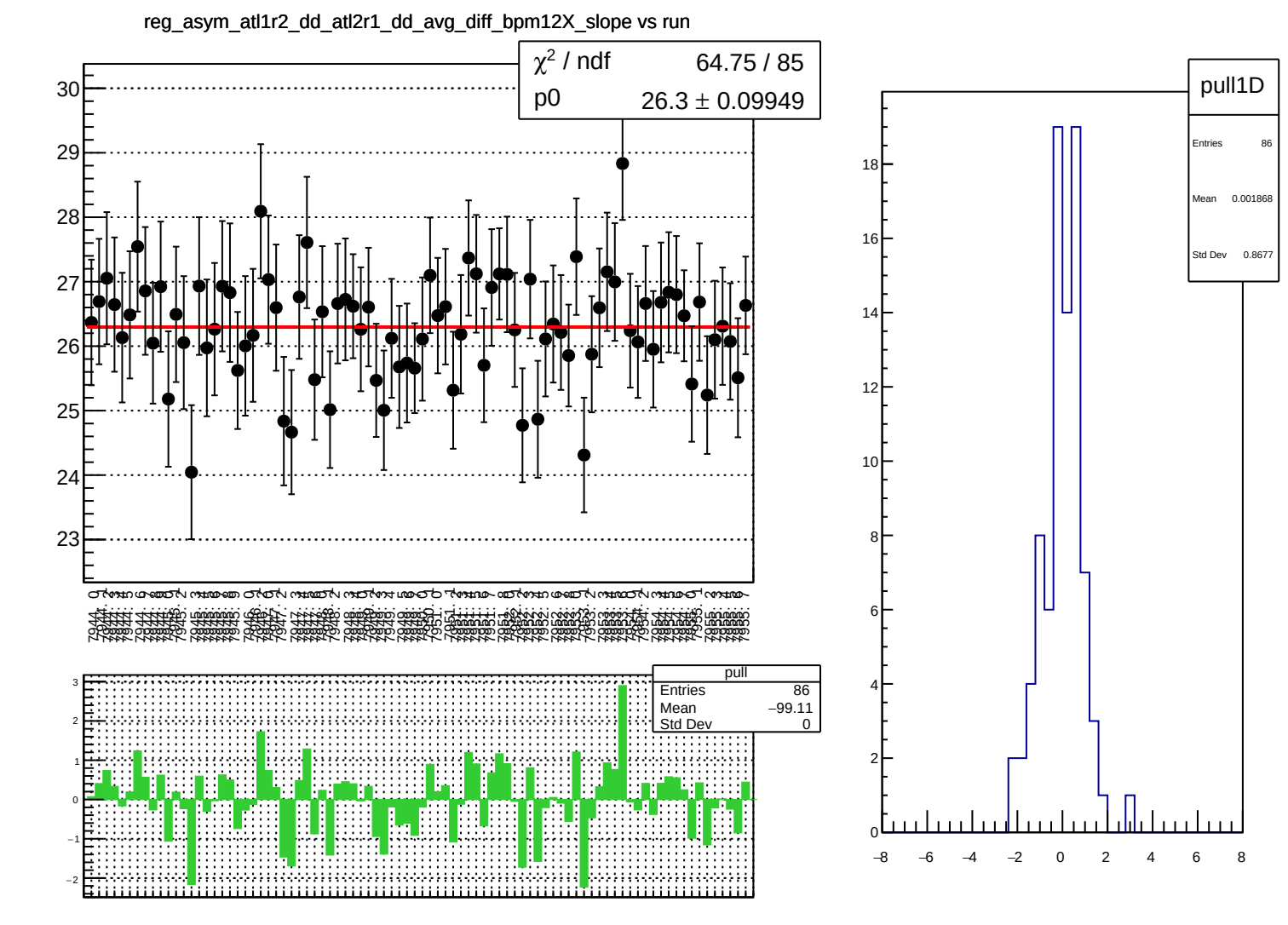

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 39.97 / 85
p0 16.47 ± 2.983
pull
Entries 86
Mean −231.7
Std Dev 0
pull1D
Entries 86
Mean −0.009309
Std Dev 0.6816

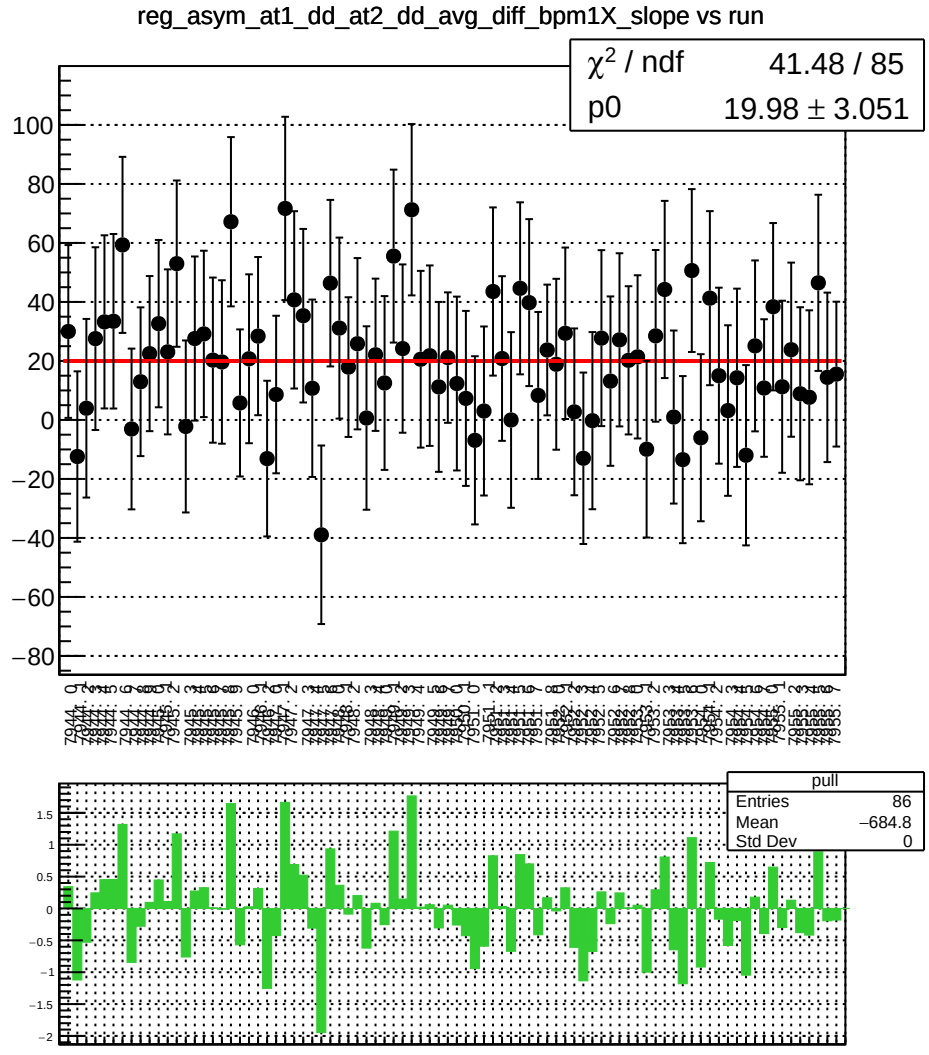

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.31 / 85
p0 −13.62 ± 3.079
pull
Entries 86
Mean −558
Std Dev 0
pull1D
Entries 86
Mean 0.003838
Std Dev 0.6846

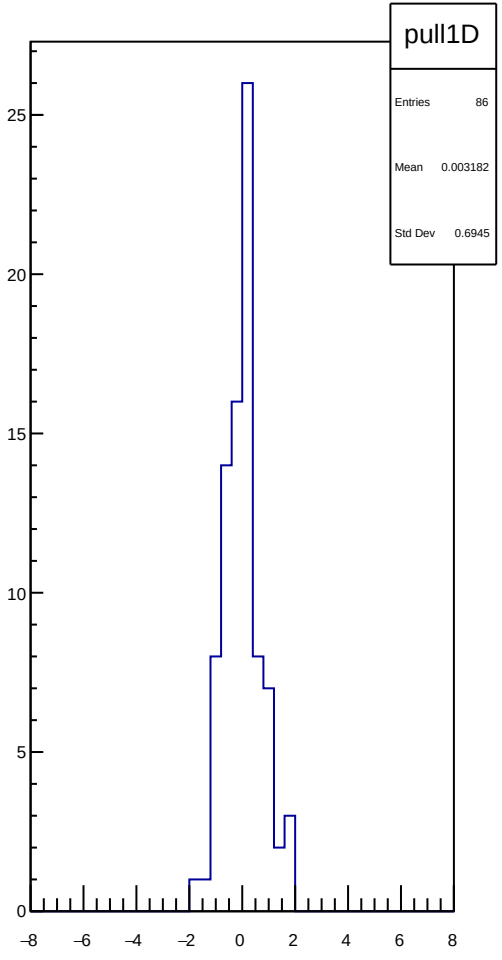

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.09 / 85
p0 −36.41 ± 2.649
pull
Entries 86
Mean −298.7
Std Dev 0

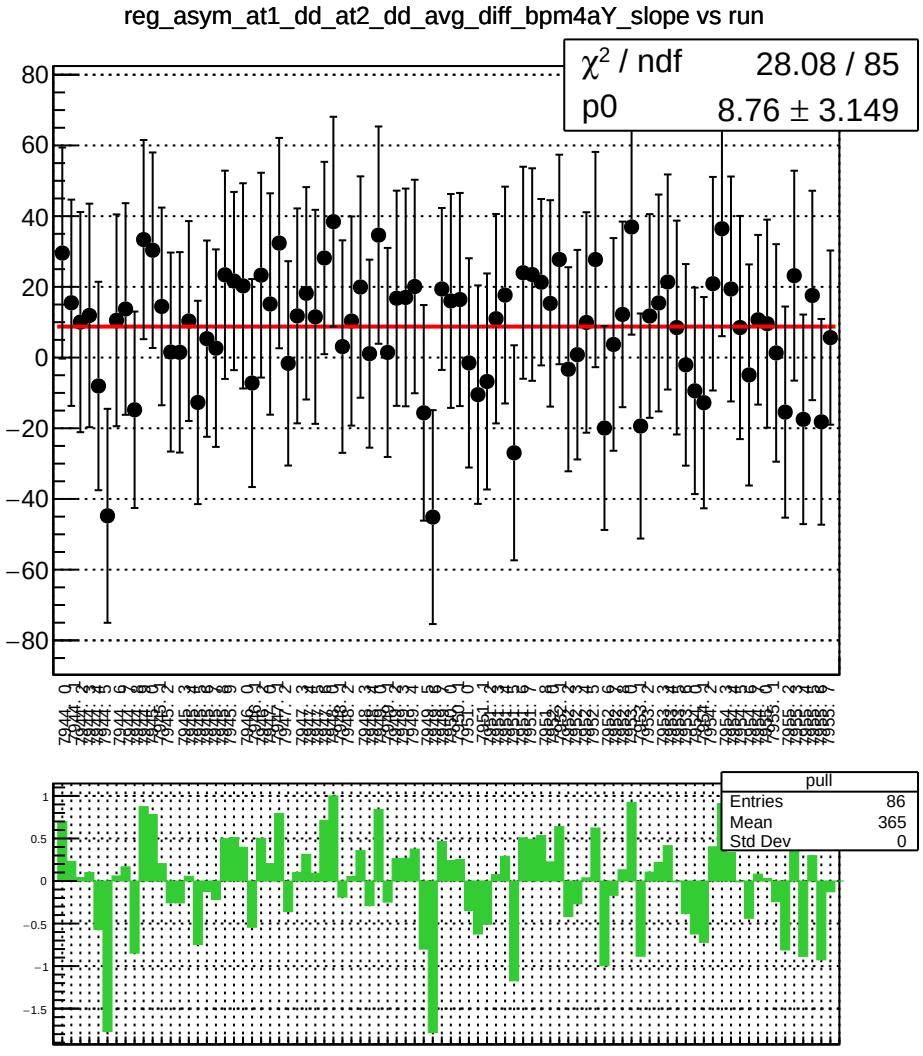

pull1D
Entries 86
Mean 0.007247
Std Dev 0.6741

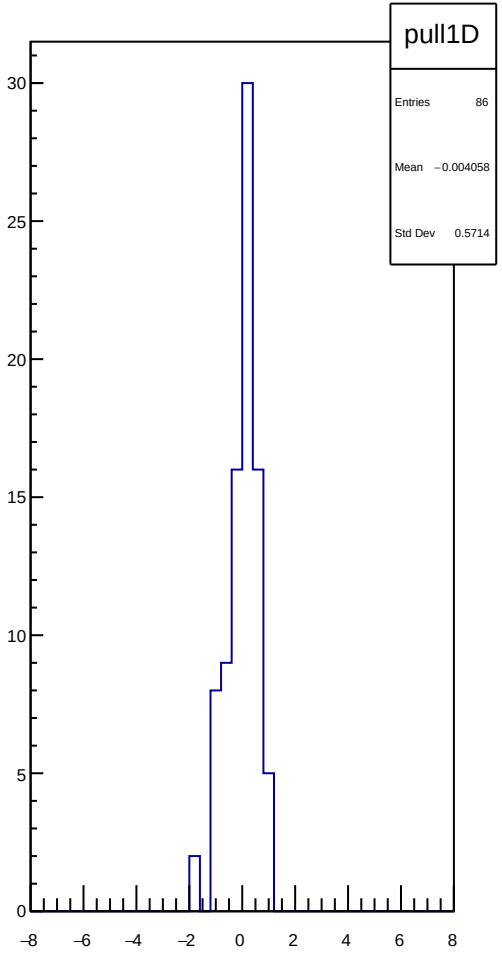

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.95 / 85
p0 9.422 ± 3.54
pull
Entries 86
Mean −564.5
Std Dev 0
pull1D
Entries 86
Mean −0.00399
Std Dev 0.6815

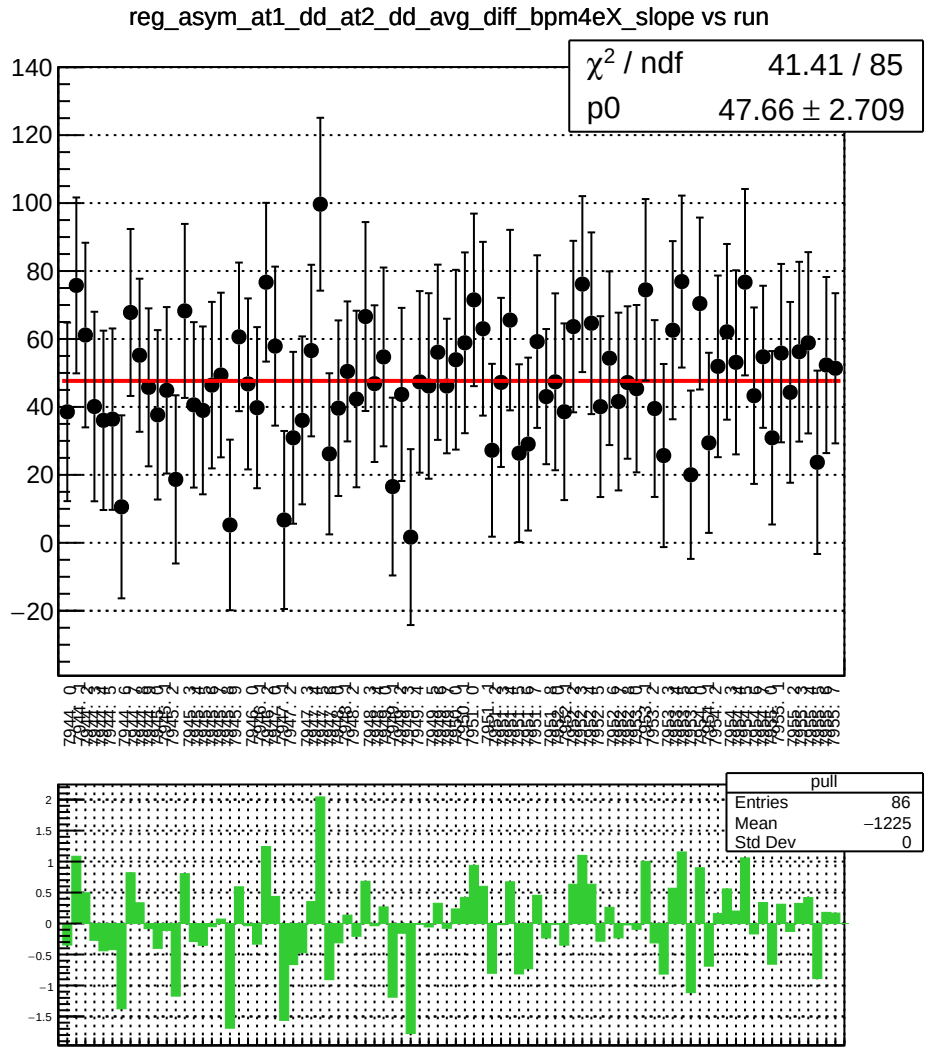

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 64.75 / 85
p0 26.3 ± 0.09949
pull
Entries 86
Mean −99.11
Std Dev 0
pull1D
Entries 86
Mean 0.001868
Std Dev 0.8677

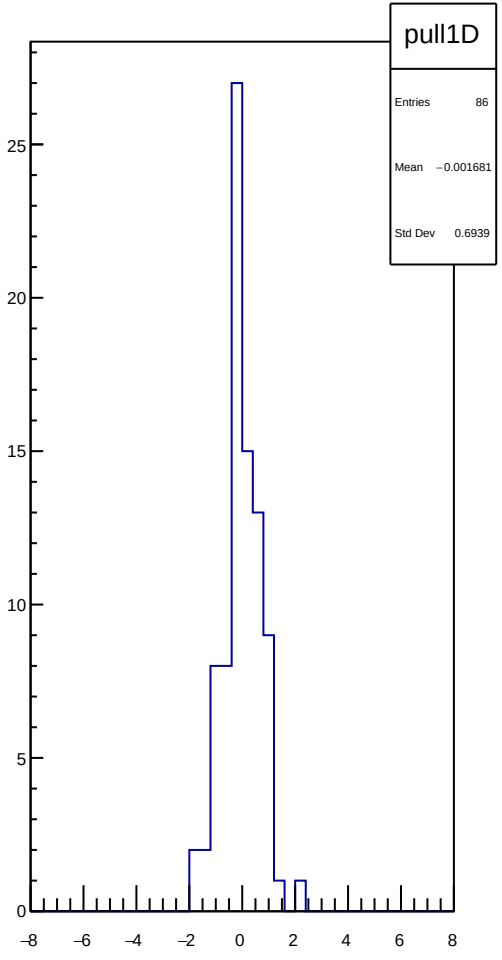

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 41.48 / 85
p0 19.98 ± 3.051
pull
Entries 86
Mean −684.8
Std Dev 0

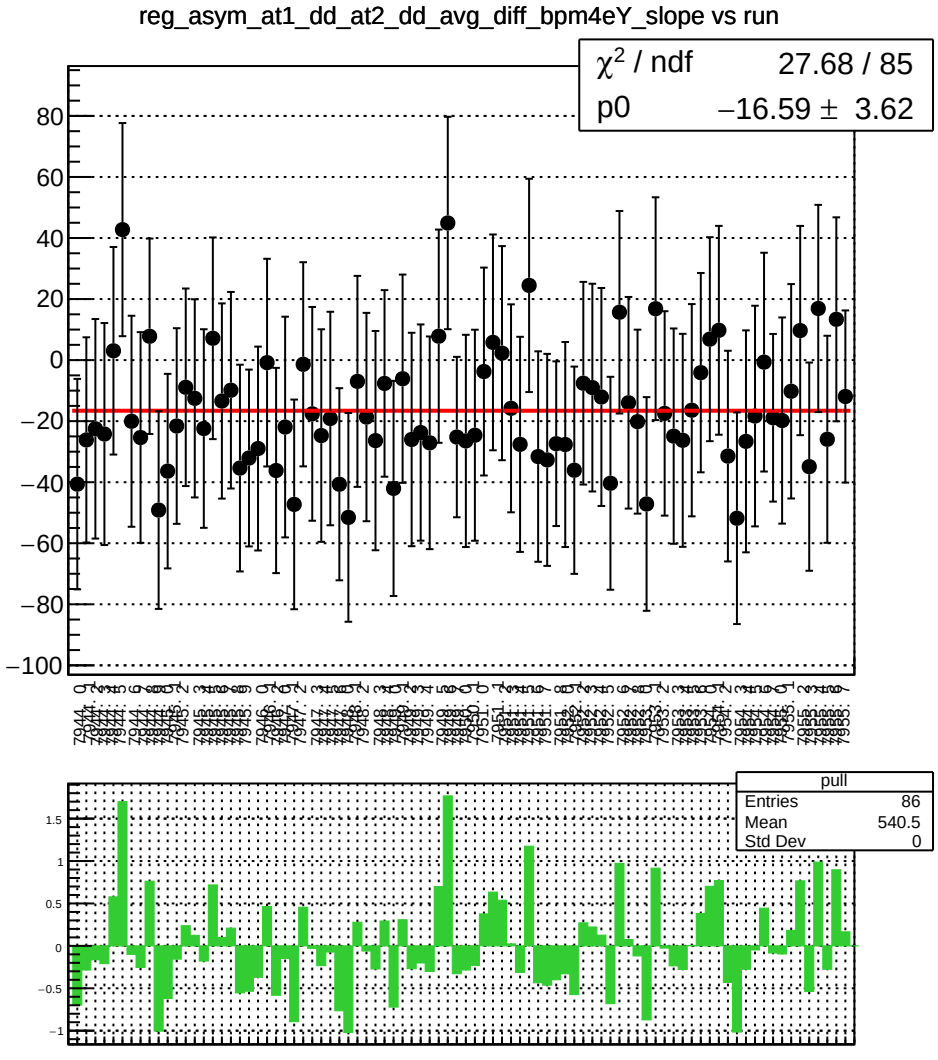

pull1D
Entries 86
Mean 0.003182
Std Dev 0.6945

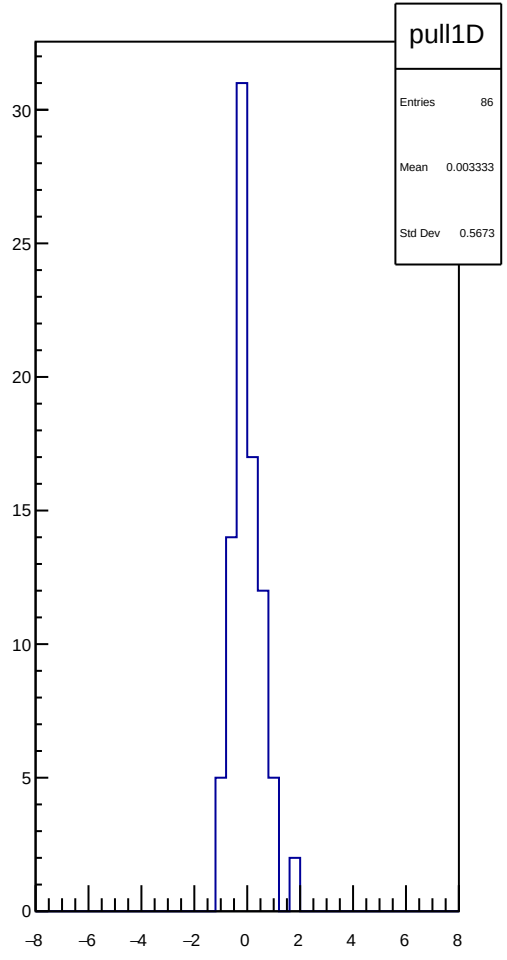

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.08 / 85
p0 8.76 ± 3.149
pull
Entries 86
Mean 365
Std Dev 0

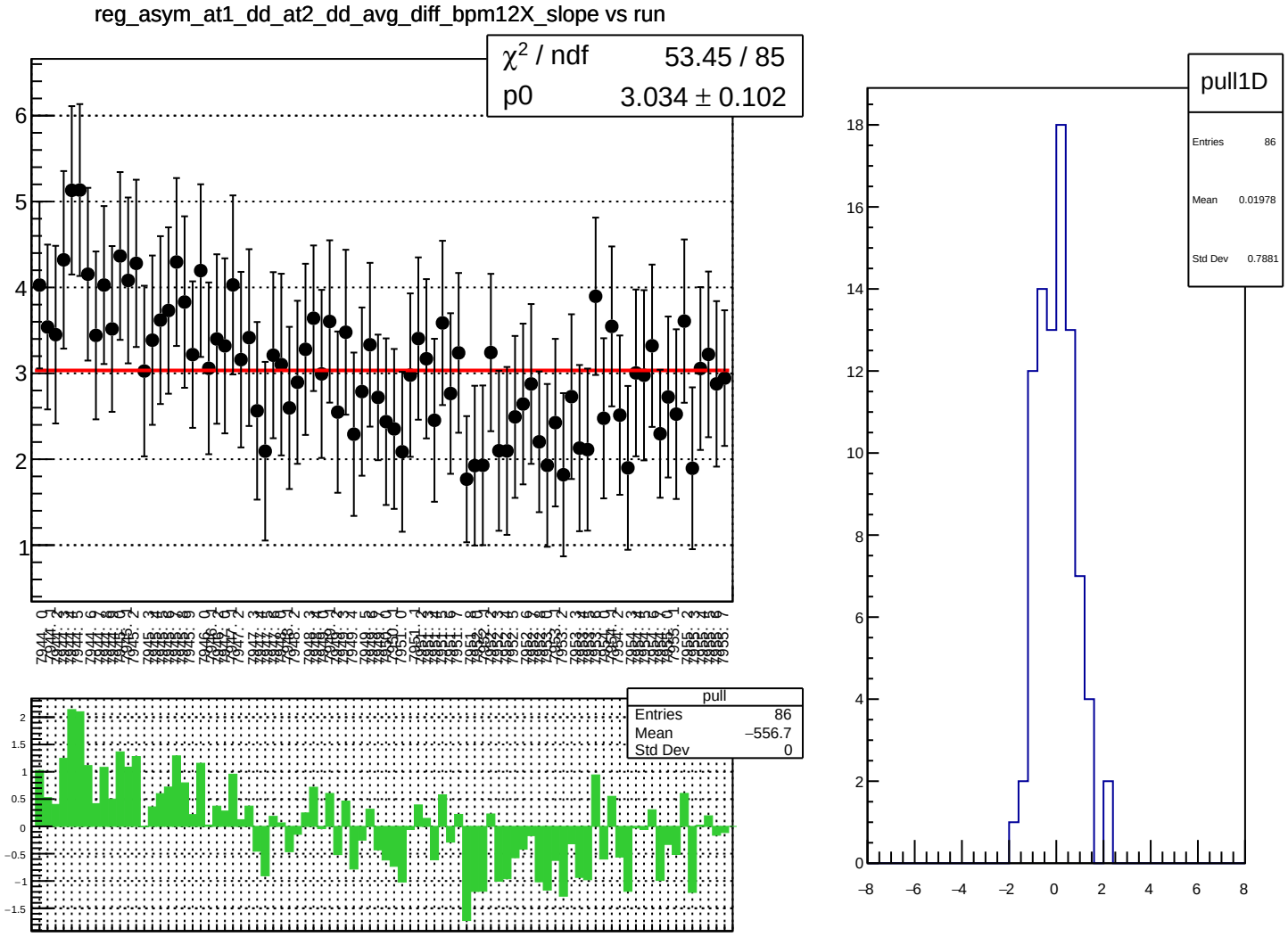

pull1D
Entries 86
Mean −0.004058
Std Dev 0.5714

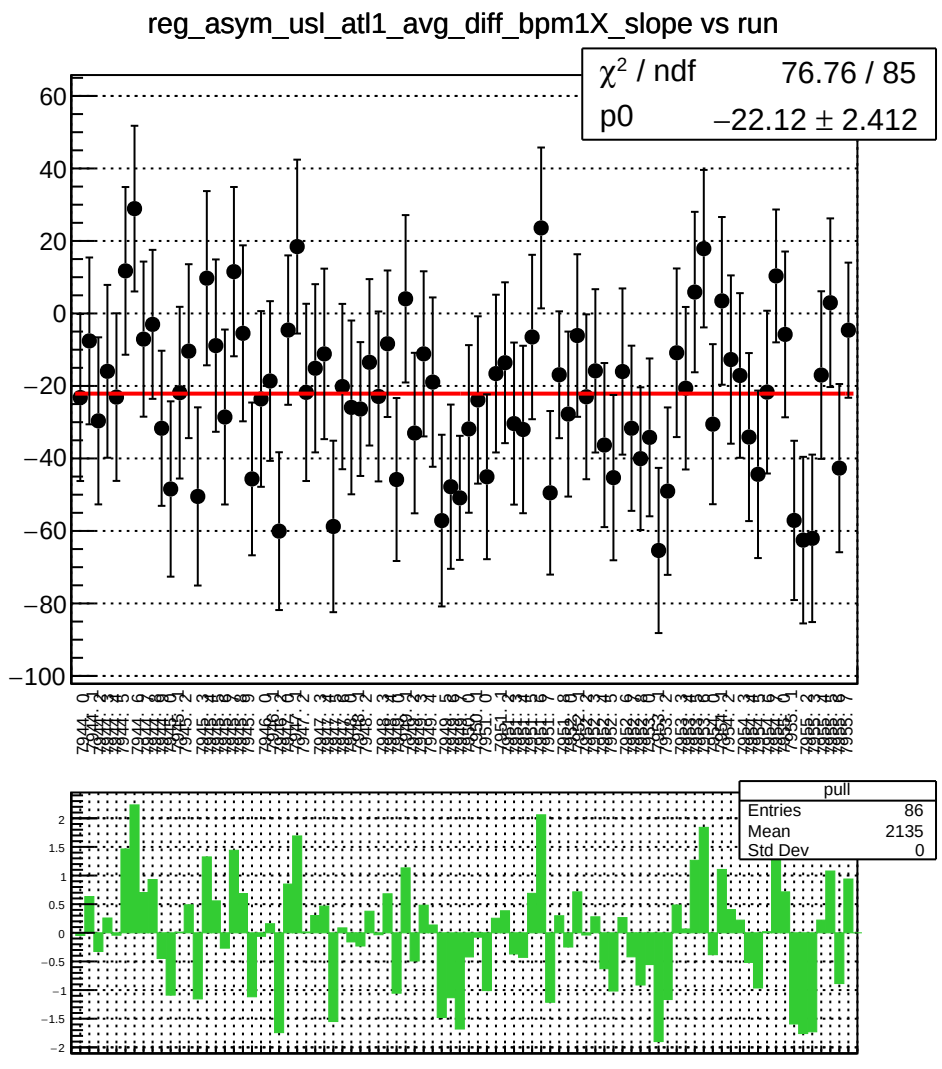

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 41.41 / 85
p0 47.66 ± 2.709
pull
Entries 86
Mean −1225
Std Dev 0

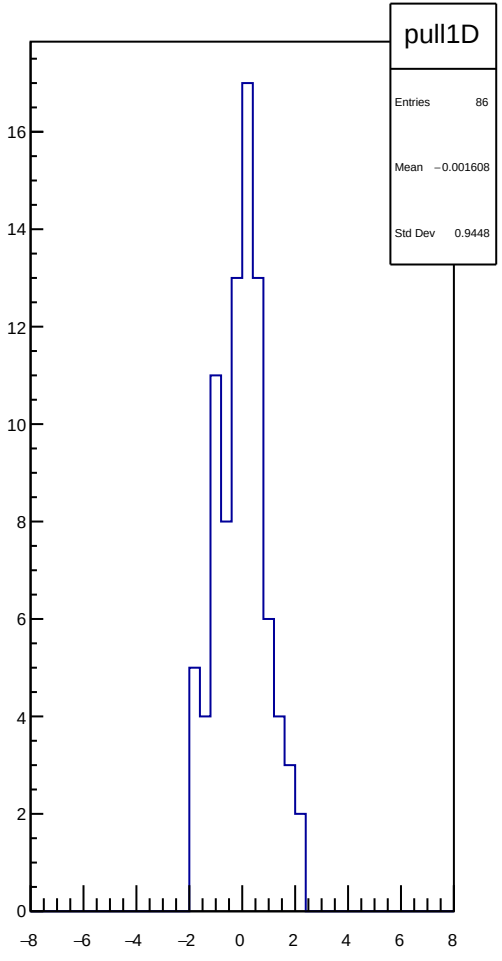

pull1D
Entries 86
Mean −0.001681
Std Dev 0.6939

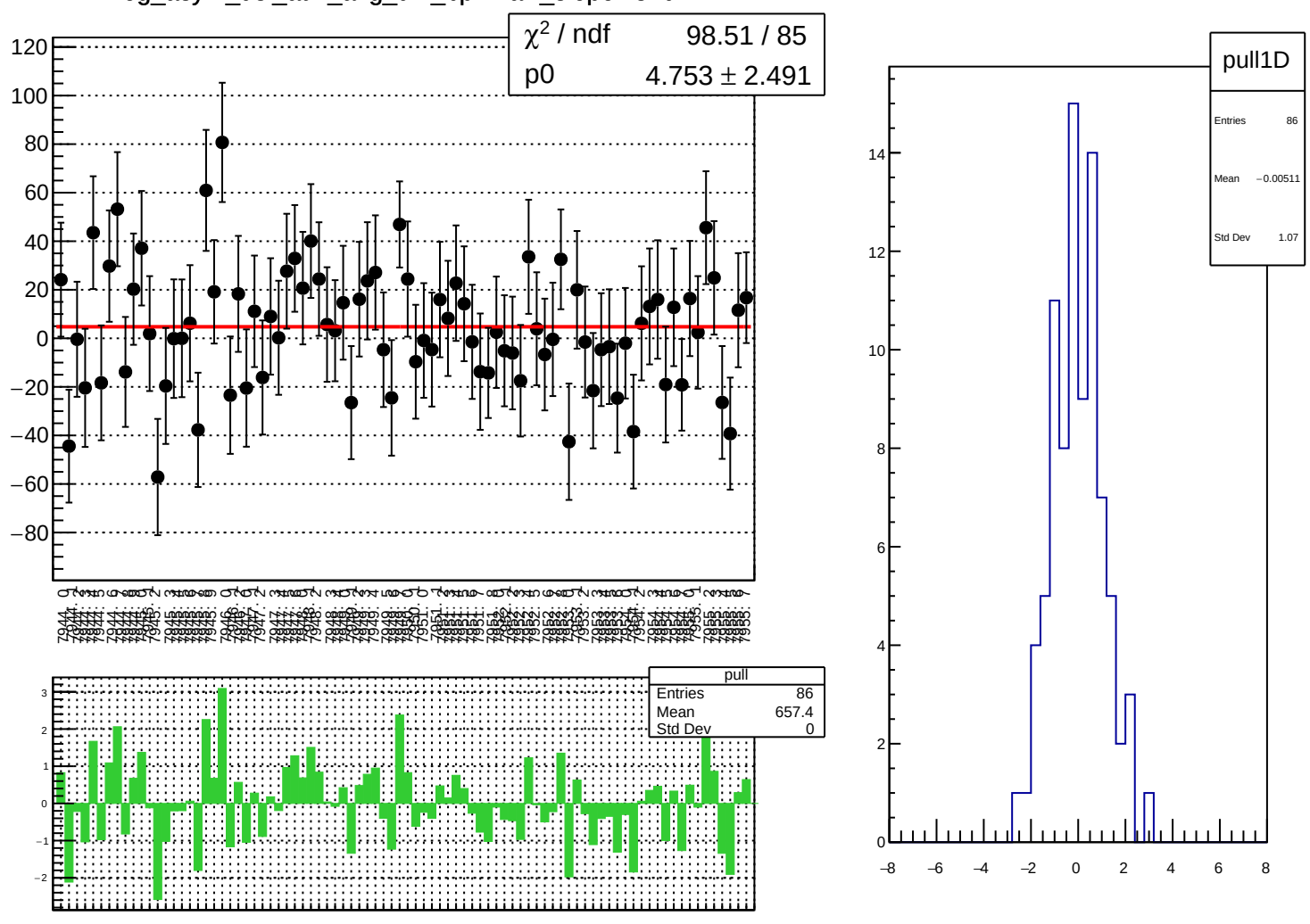

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.68 / 85
p0 −16.59 ± 3.62
pull
Entries 86
Mean 540.5
Std Dev 0

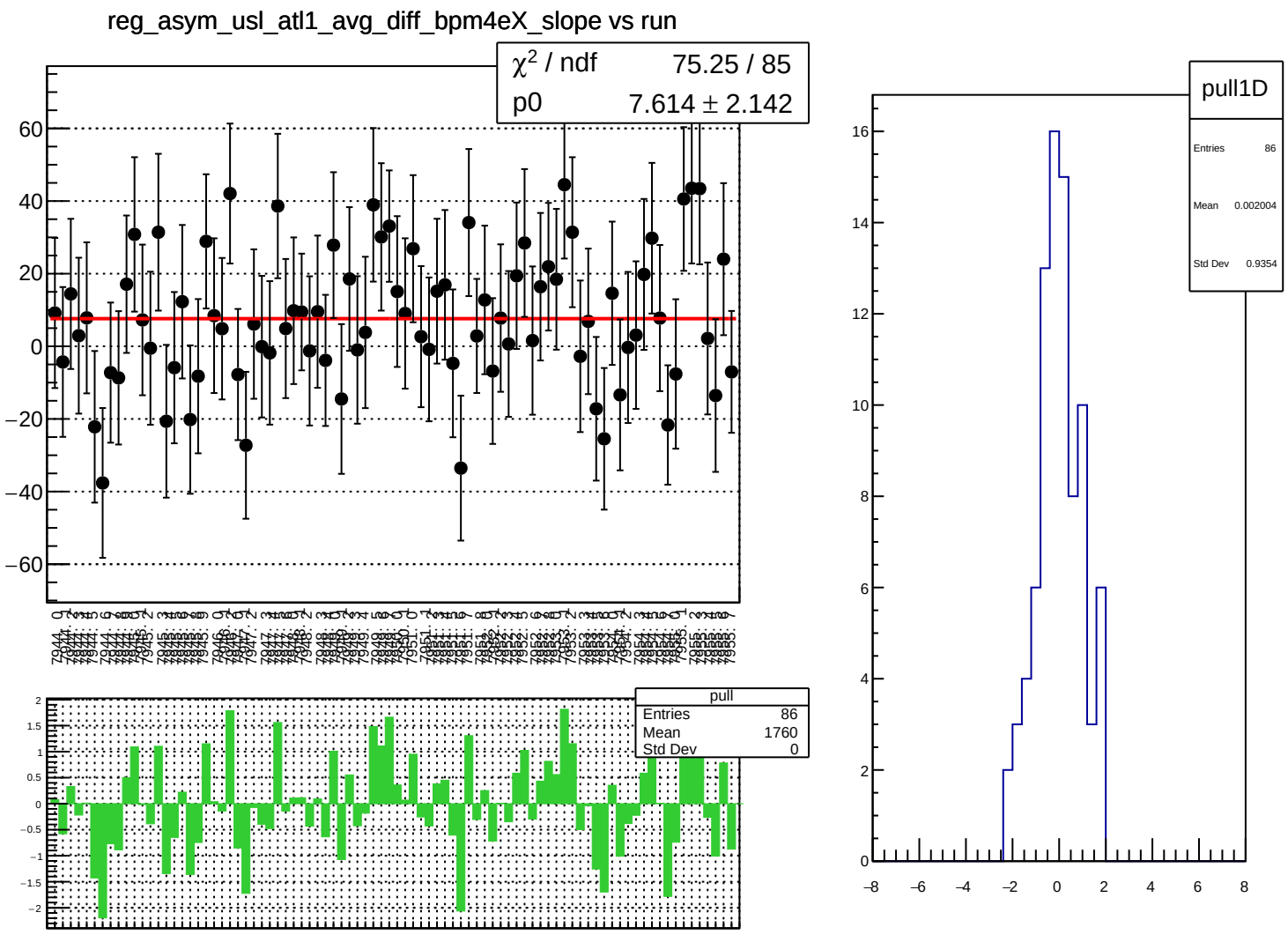

pull1D
Entries 86
Mean 0.003333
Std Dev 0.5673

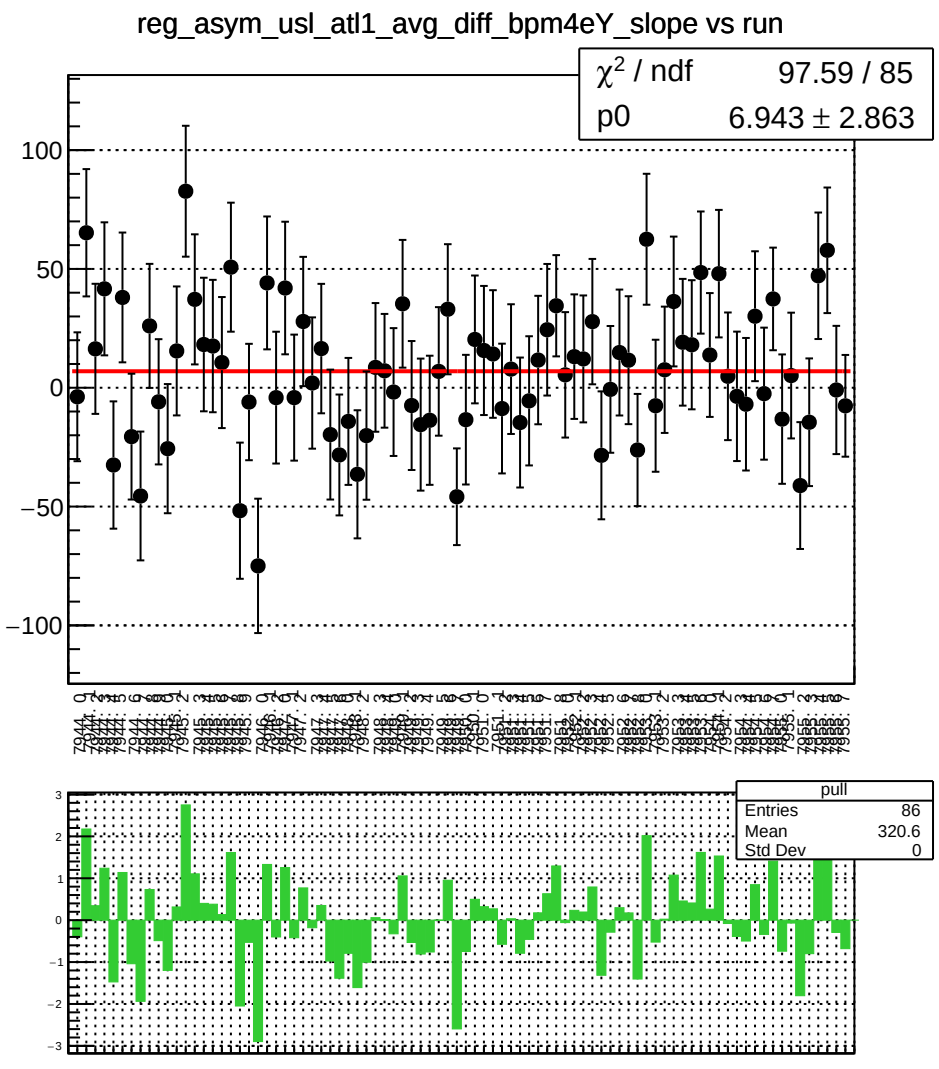

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 53.45 / 85
p0 3.034 ± 0.102
pull
Entries 86
Mean −556.7
Std Dev 0
pull1D
Entries 86
Mean 0.01978
Std Dev 0.7881

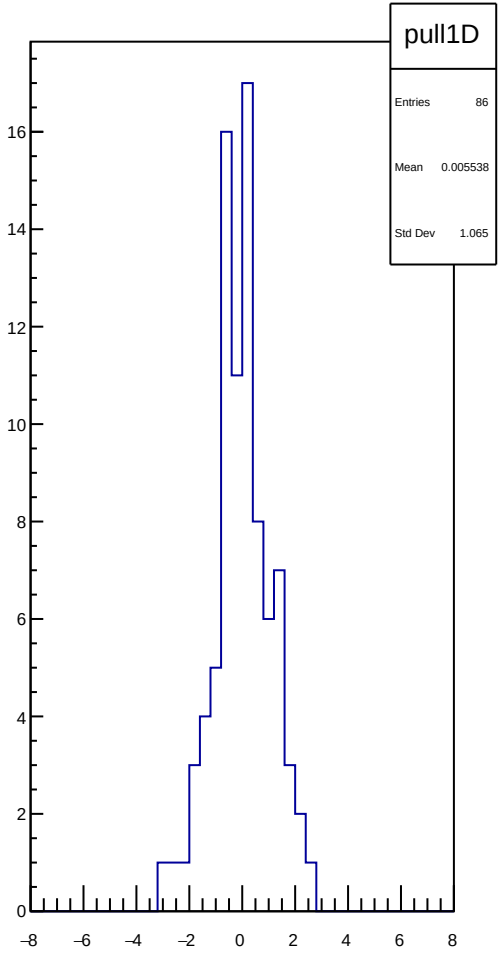

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 76.76 / 85
p0 −22.12 ± 2.412
pull
Entries 86
Mean 2135
Std Dev 0

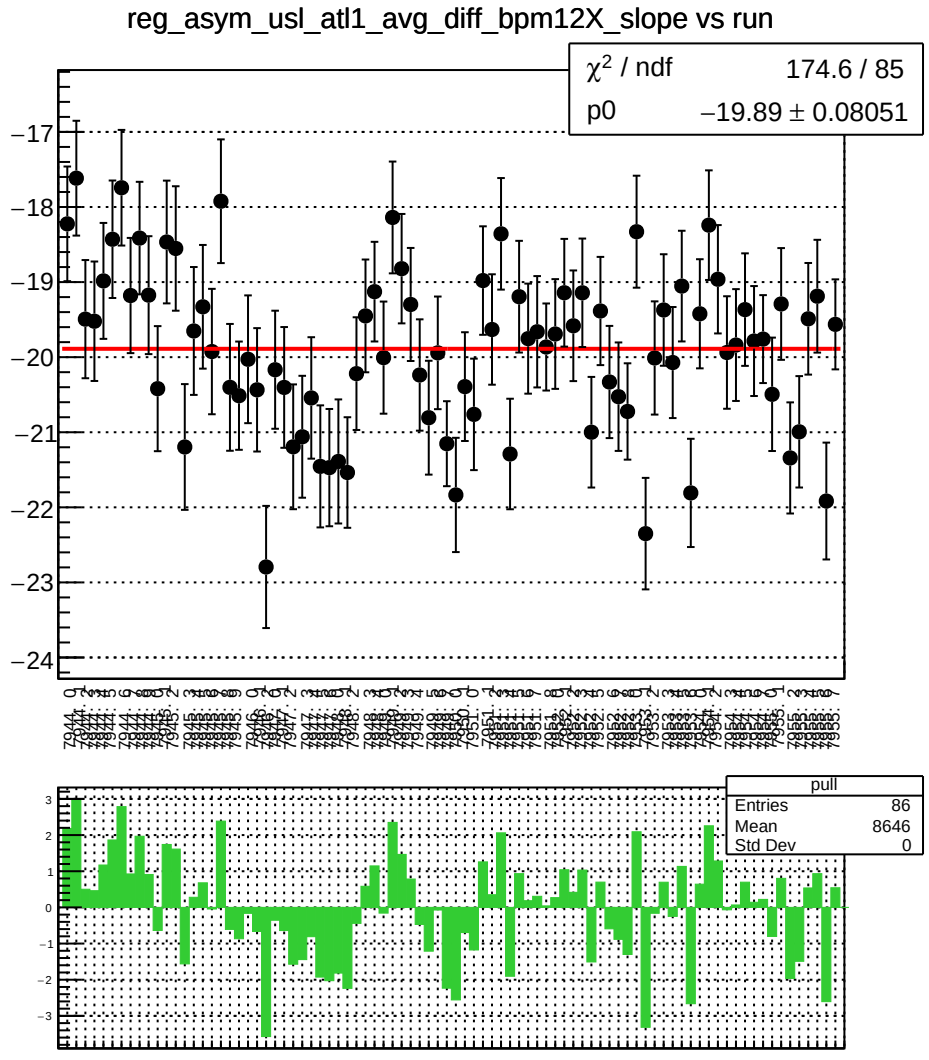

pull1D
Entries 86
Mean −0.001608
Std Dev 0.9448

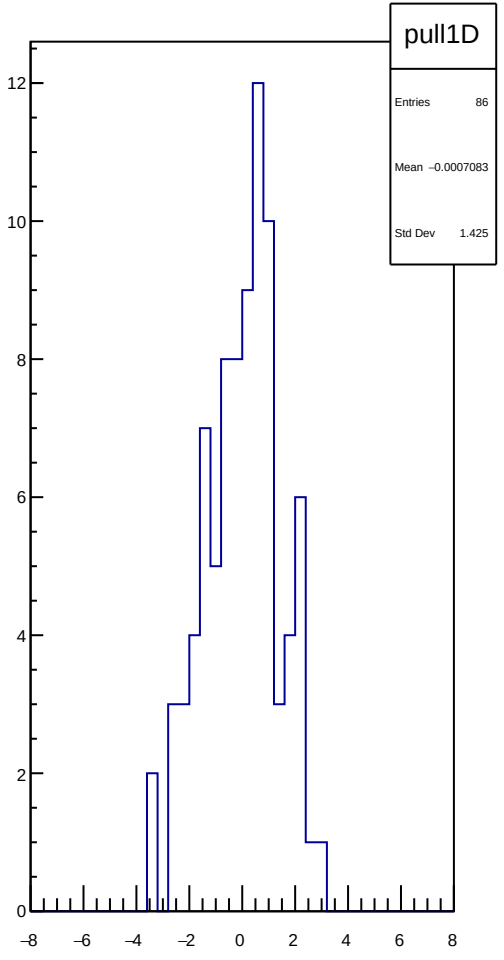

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.51 / 85
p0 4.753 ± 2.491
pull
Entries 86
Mean 657.4
Std Dev 0
pull1D
Entries 86
Mean −0.00511
Std Dev 1.07

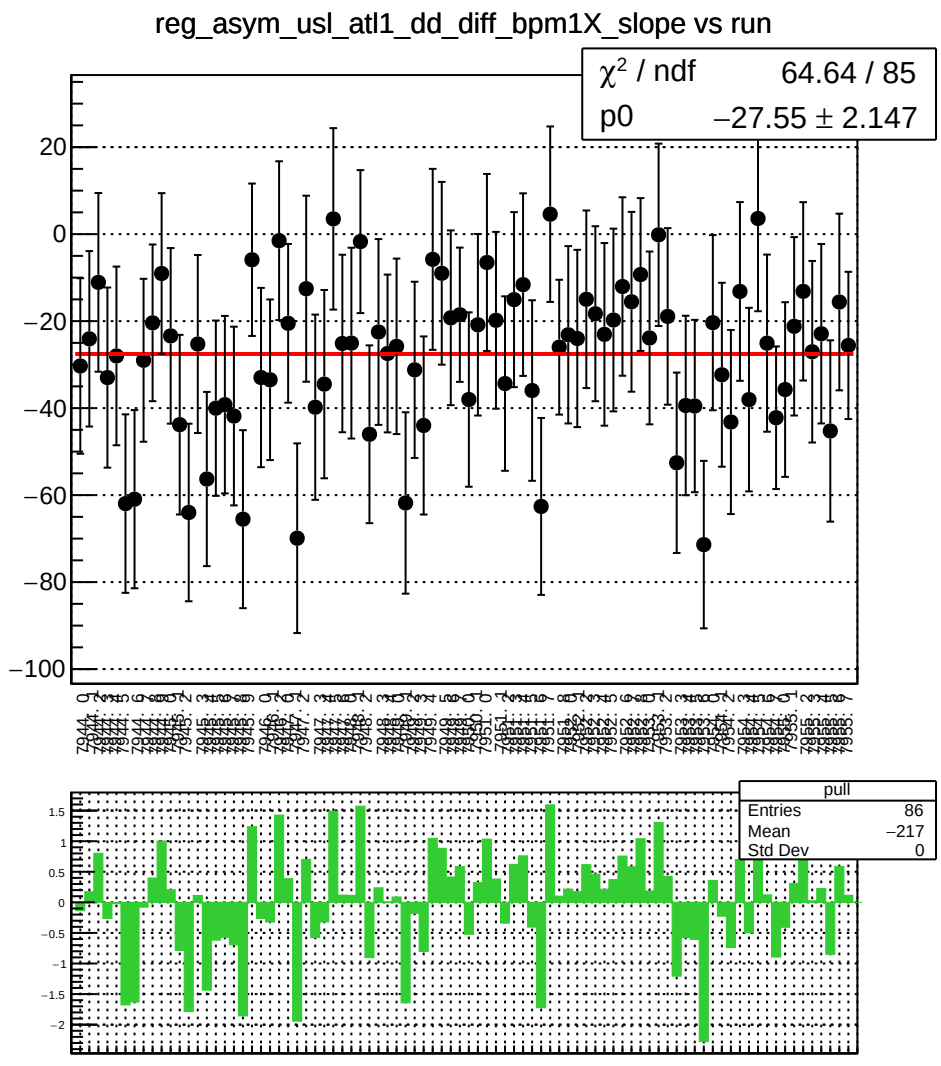

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.25 / 85
p0 7.614 ± 2.142
pull
Entries 86
Mean 1760
Std Dev 0
pull1D
Entries 86
Mean 0.002004
Std Dev 0.9354

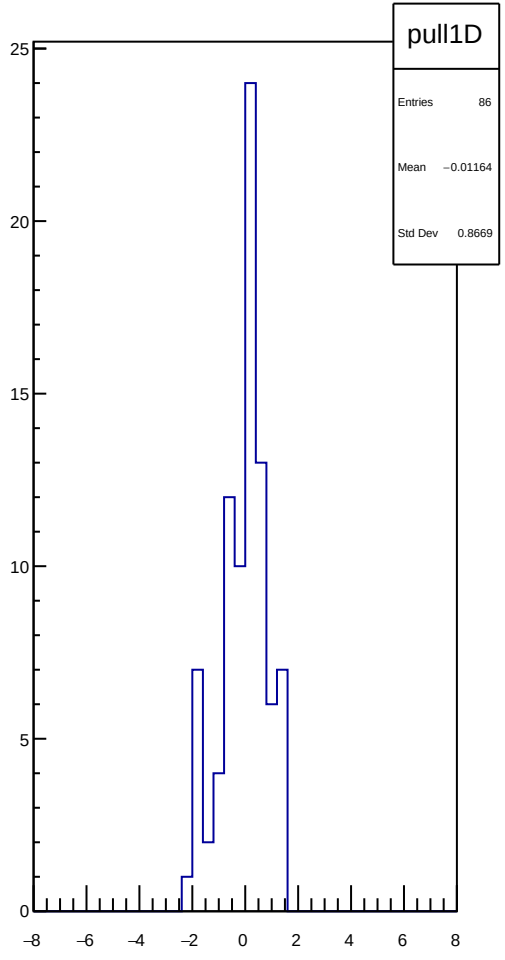

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 97.59 / 85
p0 6.943 ± 2.863
pull
Entries 86
Mean 320.6
Std Dev 0

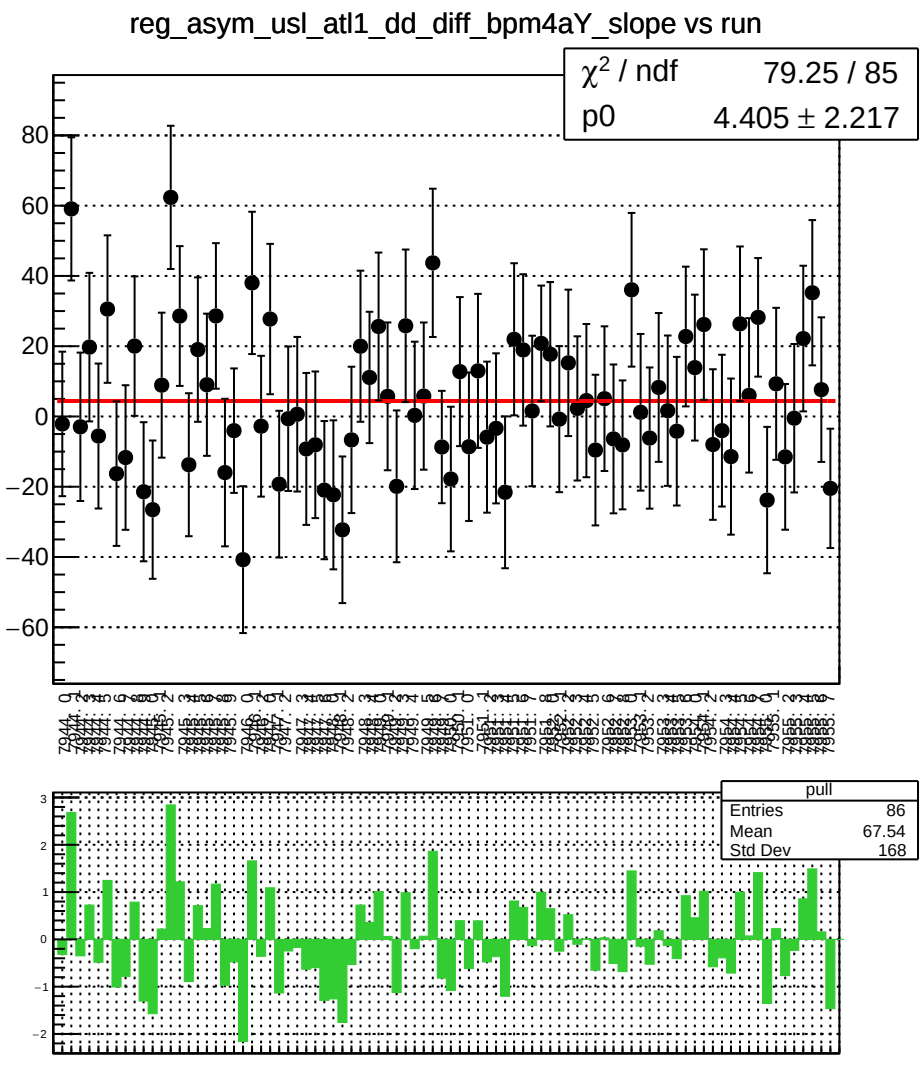

pull1D
Entries 86
Mean 0.005538
Std Dev 1.065

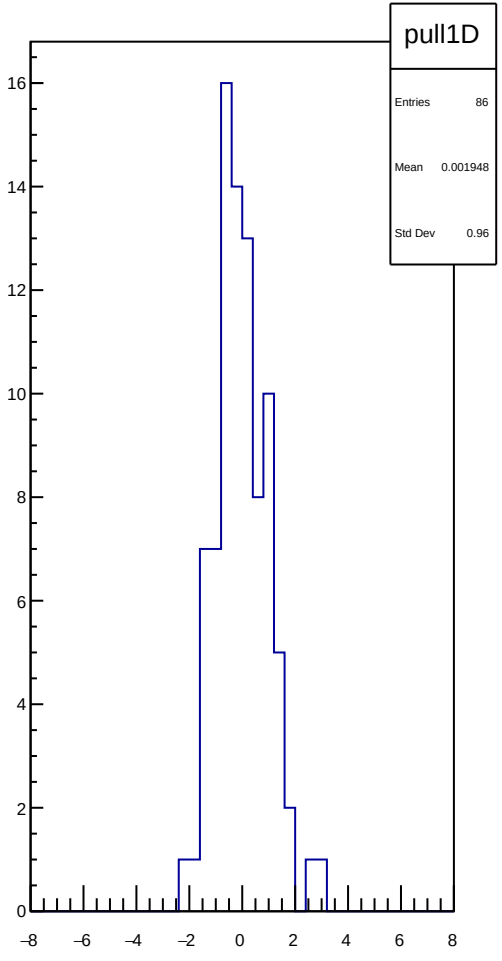

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 174.6 / 85
p0 −19.89 ± 0.08051
pull
Entries 86
Mean 8646
Std Dev 0

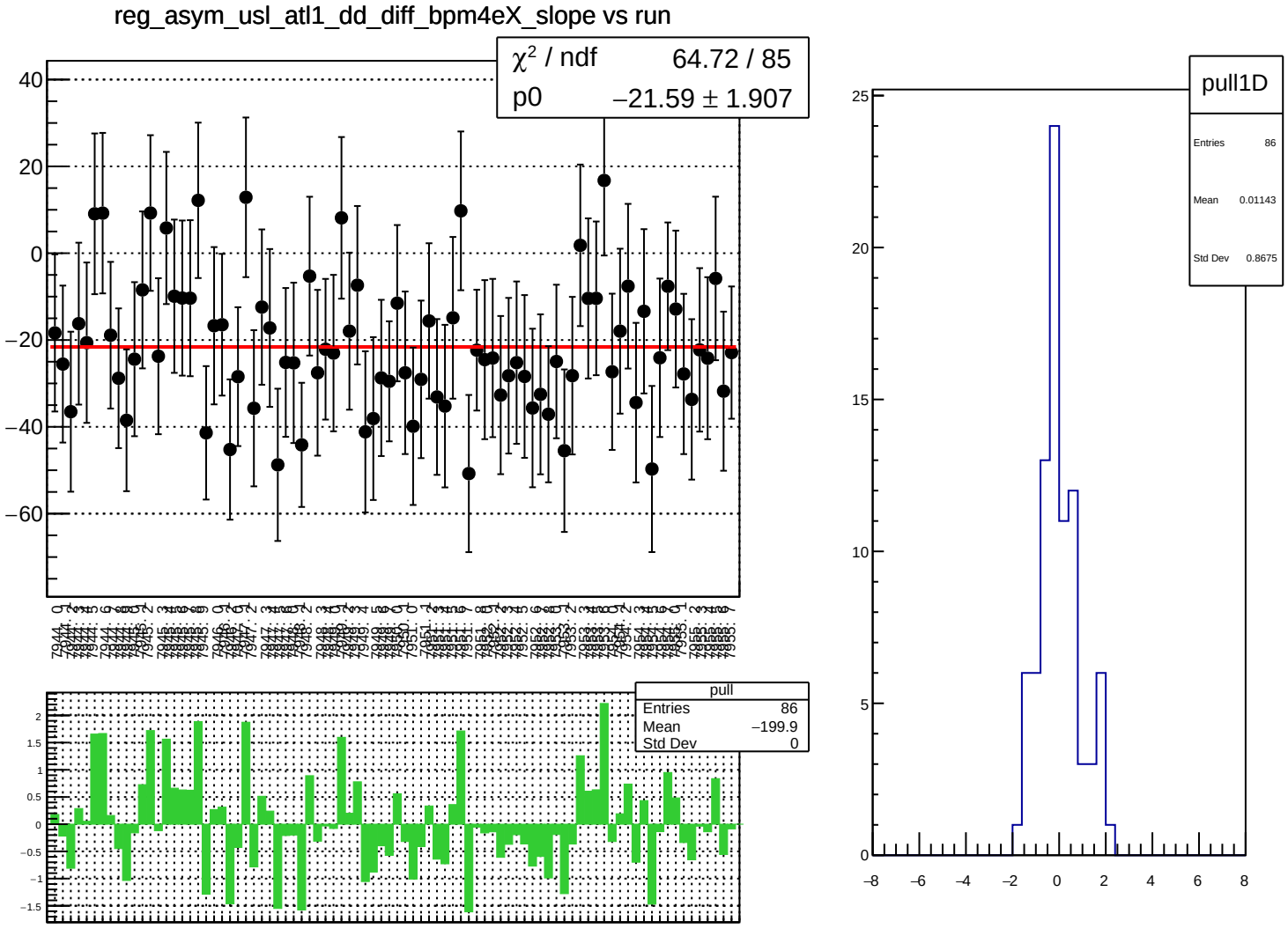

pull1D
Entries 86
Mean −0.0007083
Std Dev 1.425

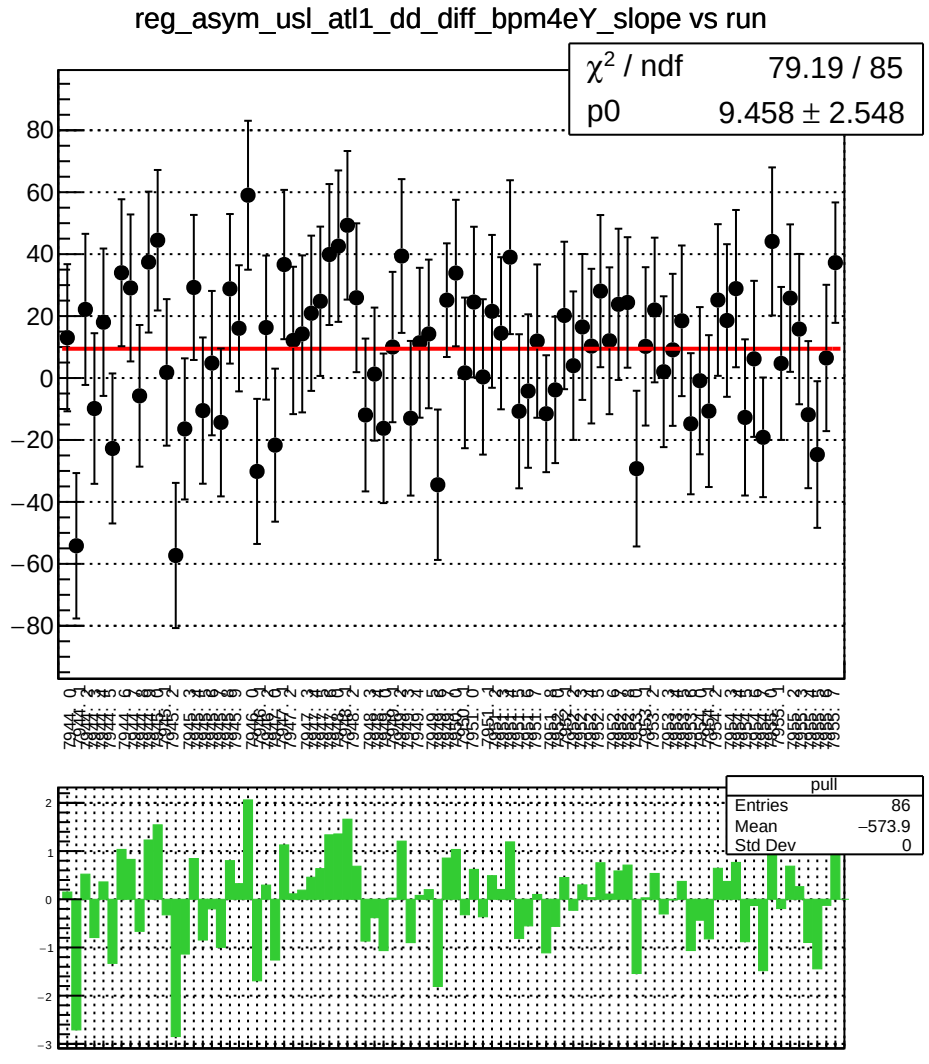

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 64.64 / 85
p0 −27.55 ± 2.147
pull
Entries 86
Mean −217
Std Dev 0

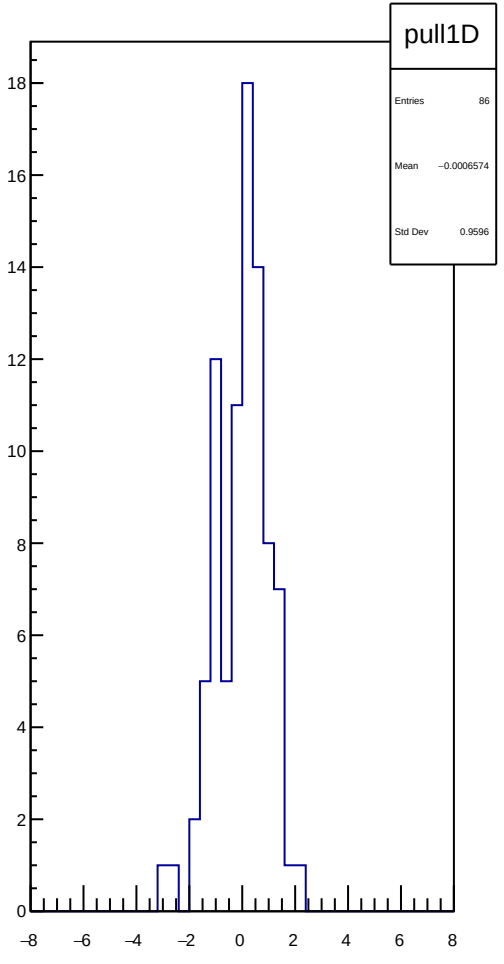

pull1D
Entries 86
Mean −0.01164
Std Dev 0.8669

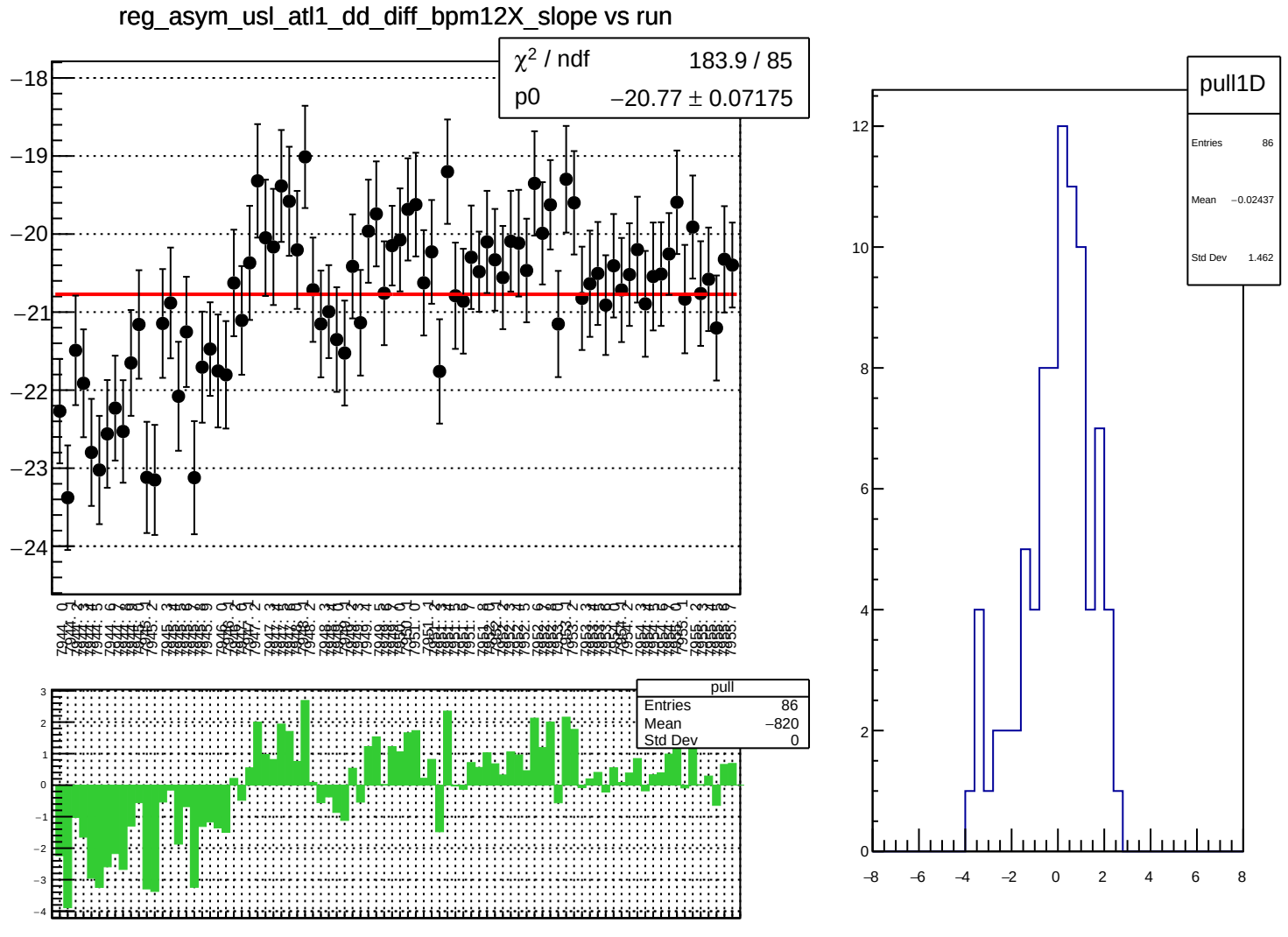

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.25 / 85
p0 4.405 ± 2.217
pull
Entries 86
Mean 67.54
Std Dev 168

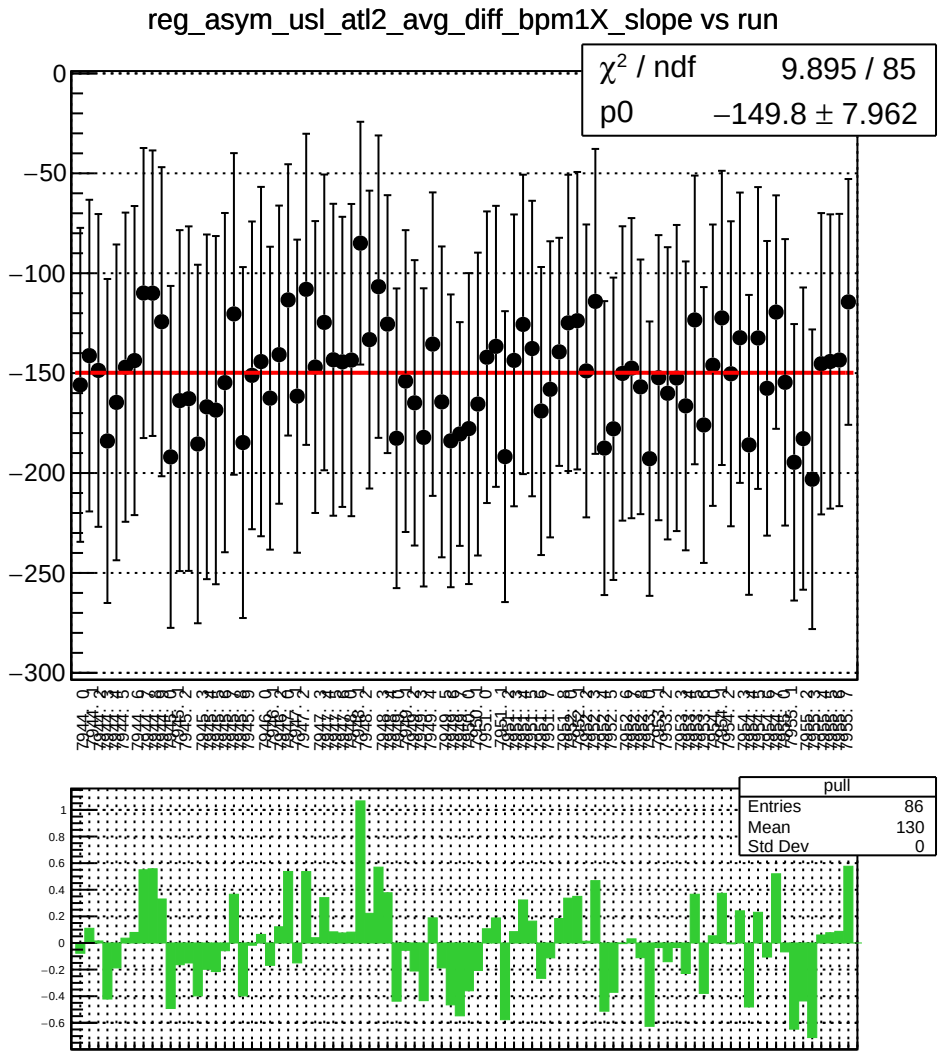

pull1D
Entries 86
Mean 0.001948
Std Dev 0.96

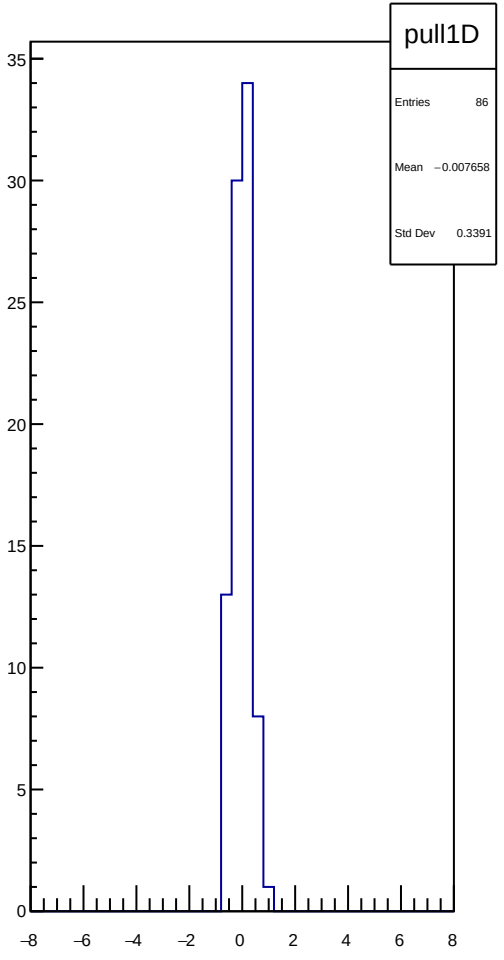

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.72 / 85
p0 −21.59 ± 1.907
pull
Entries 86
Mean −199.9
Std Dev 0
pull1D
Entries 86
Mean 0.01143
Std Dev 0.8675

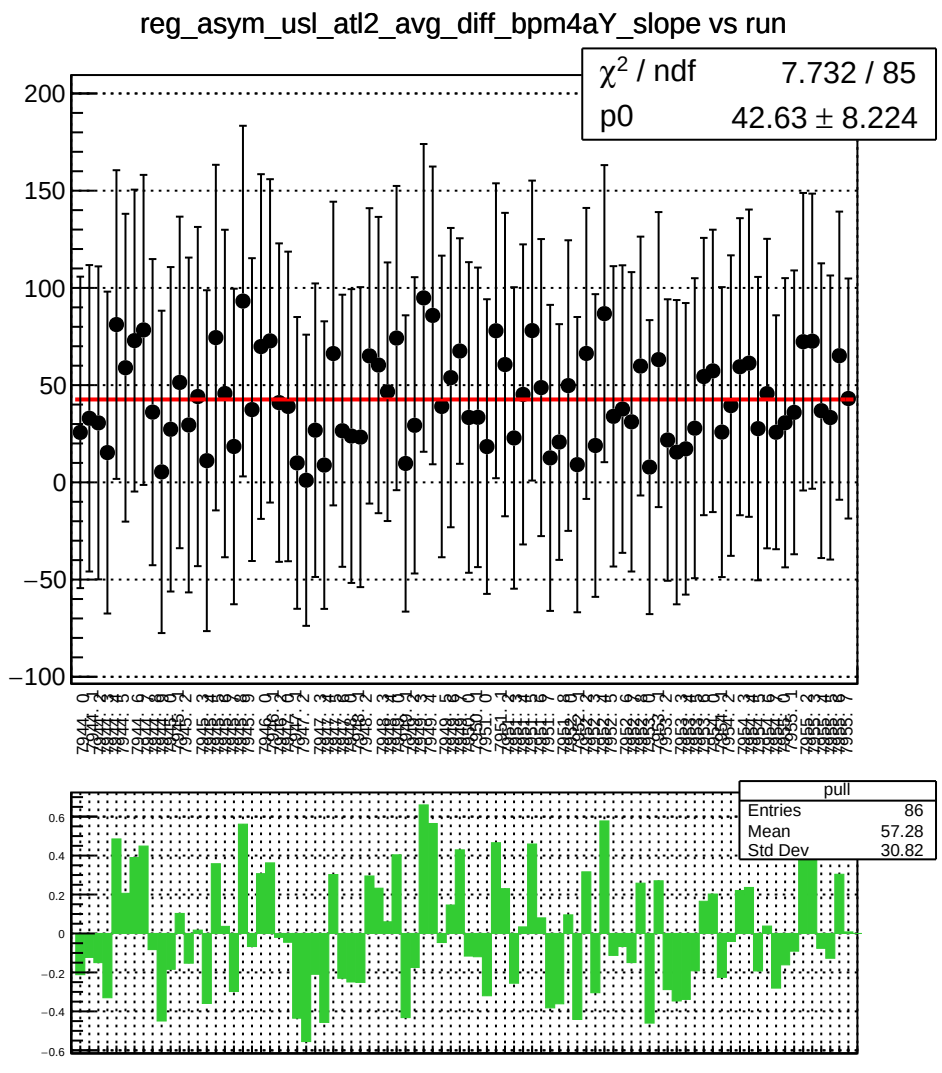

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.19 / 85
p0 9.458 ± 2.548
pull
Entries 86
Mean −573.9
Std Dev 0

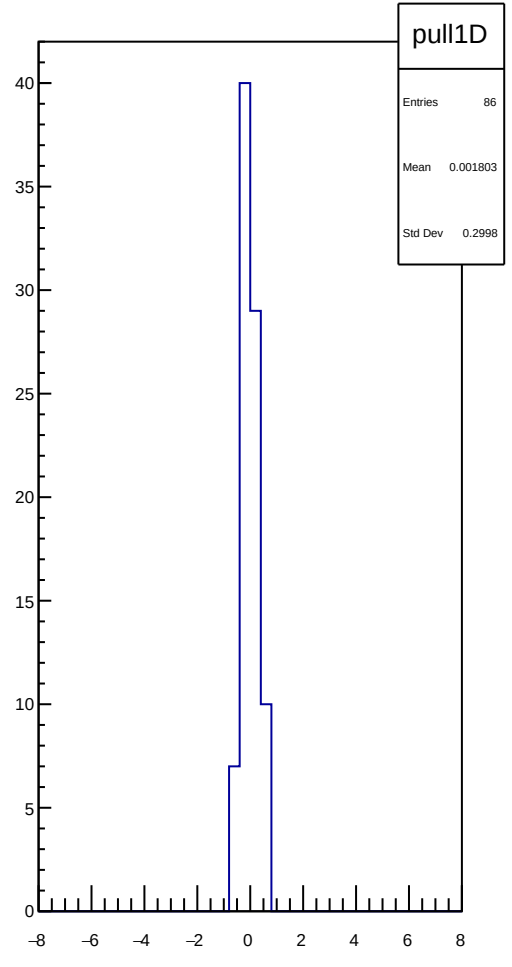

pull1D
Entries 86
Mean −0.0006574
Std Dev 0.9596

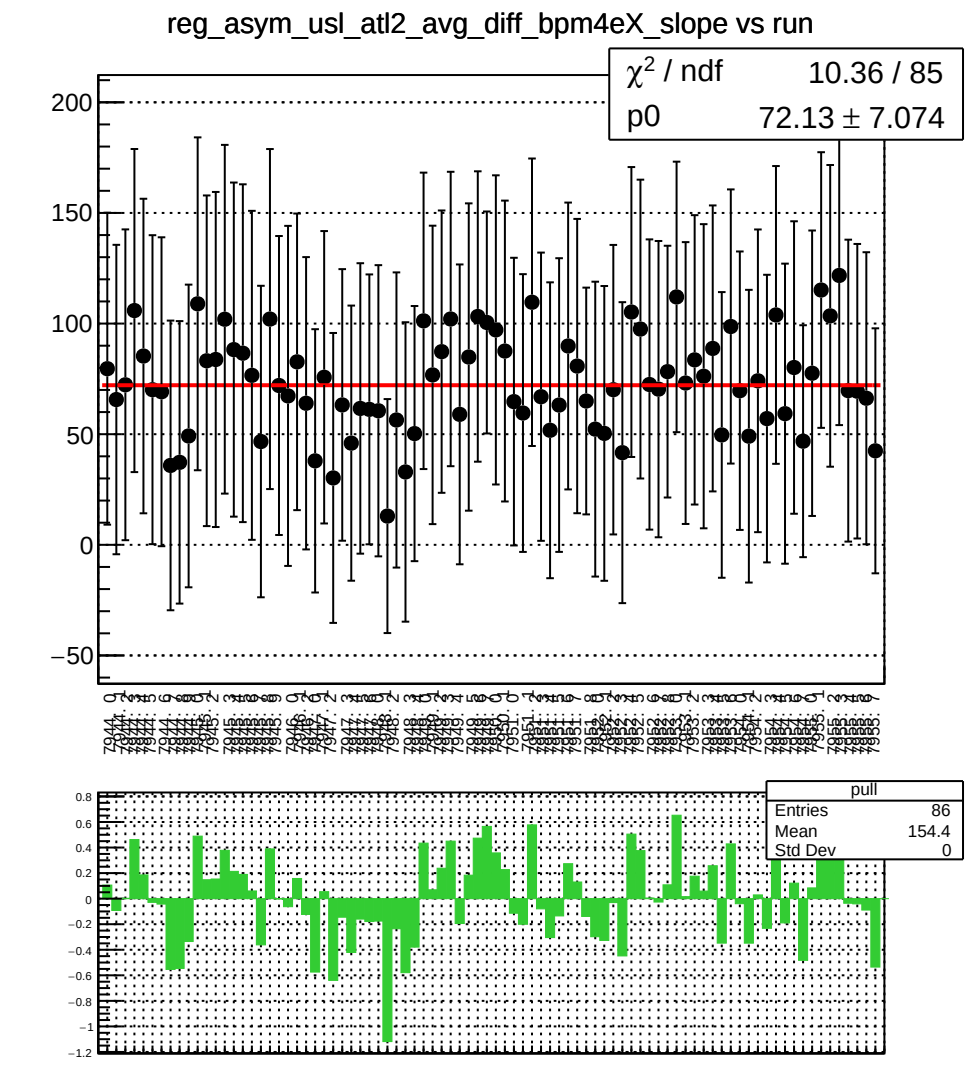

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 183.9 / 85
p0 −20.77 ± 0.07175
pull
Entries 86
Mean −820
Std Dev 0
pull1D
Entries 86
Mean −0.02437
Std Dev 1.462

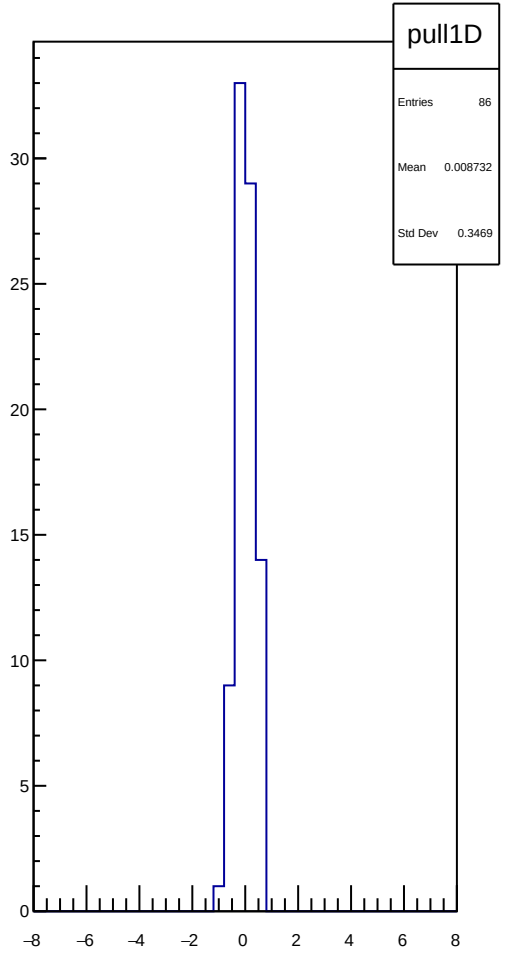

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.895 / 85
p0 −149.8 ± 7.962
pull
Entries 86
Mean 130
Std Dev 0

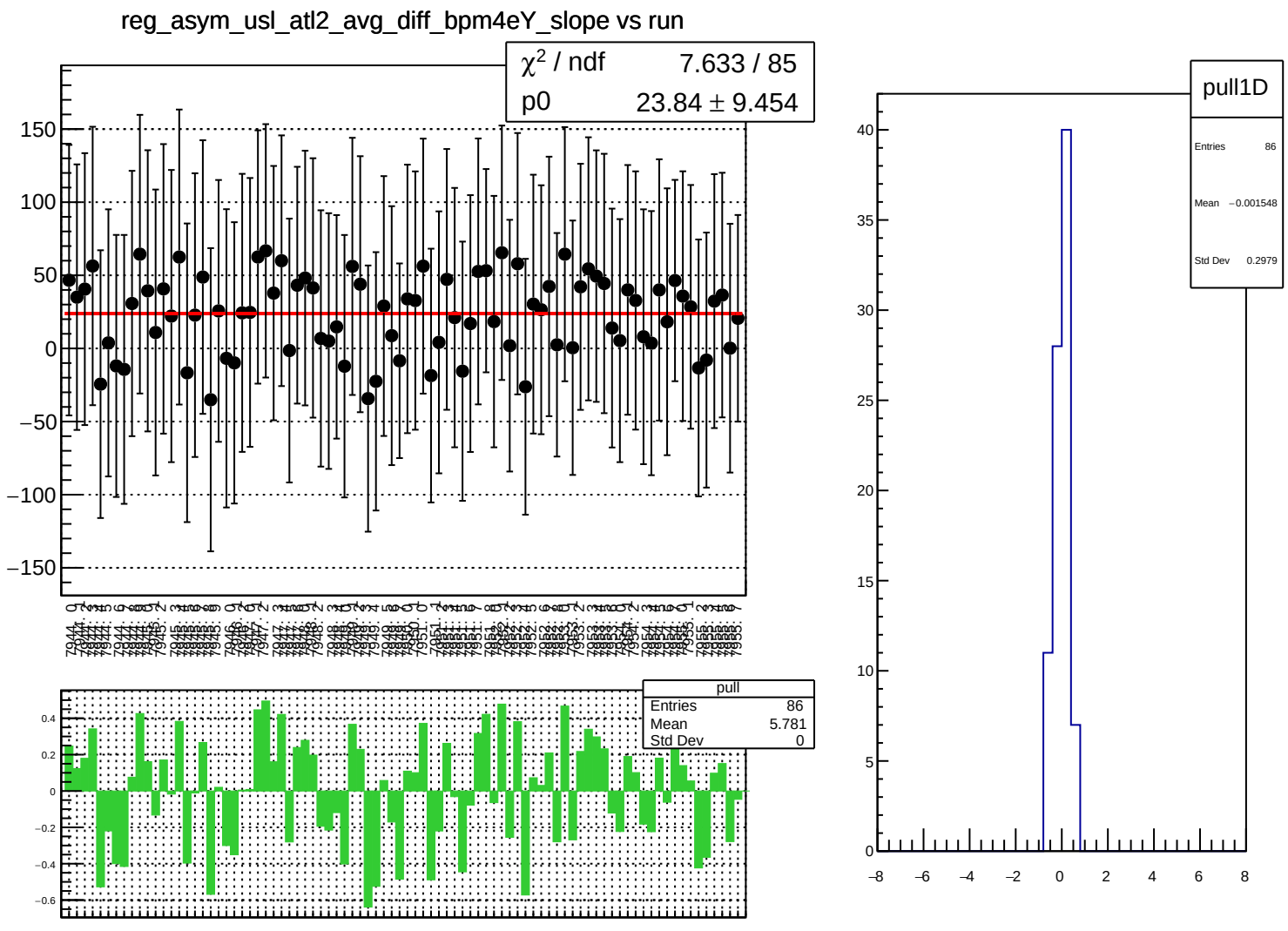

pull1D
Entries 86
Mean −0.007658
Std Dev 0.3391

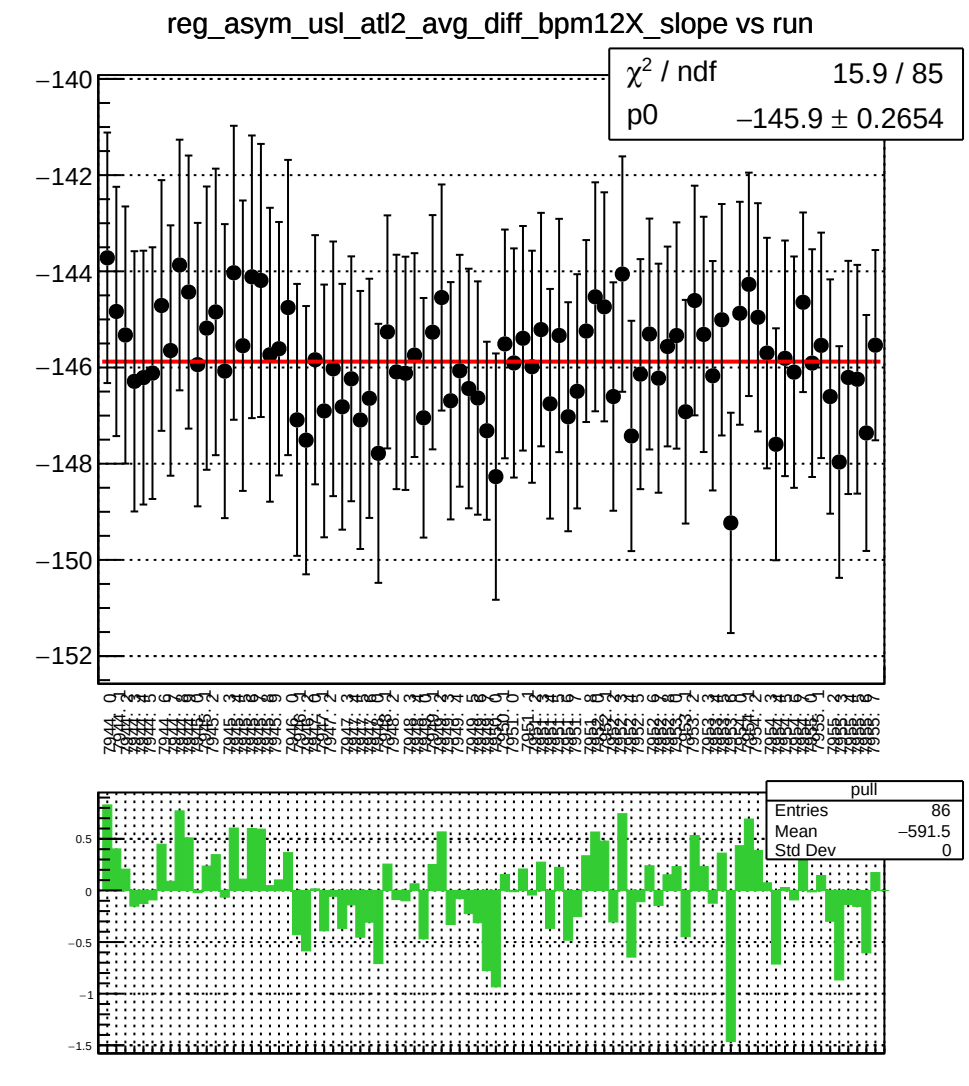

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.732 / 85
p0 42.63 ± 8.224
pull
Entries 86
Mean 57.28
Std Dev 30.82

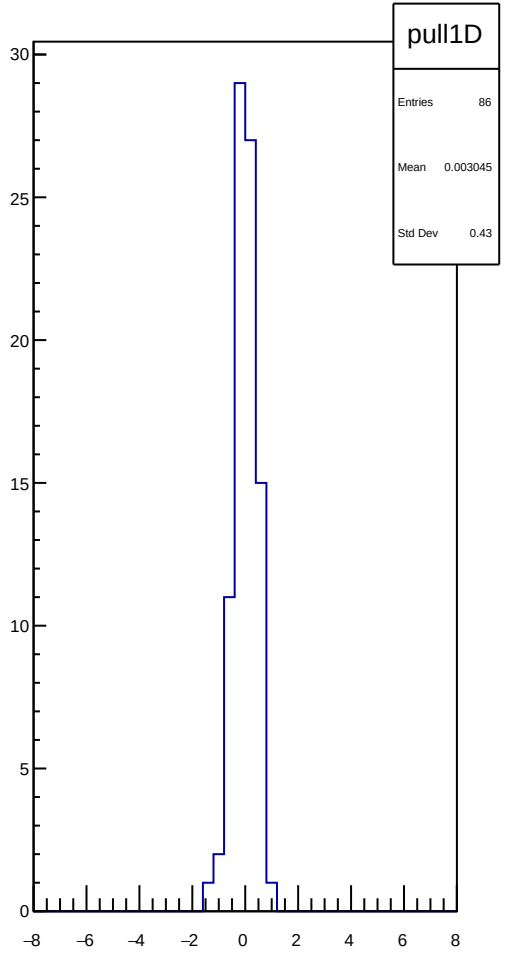

pull1D
Entries 86
Mean 0.001803
Std Dev 0.2998

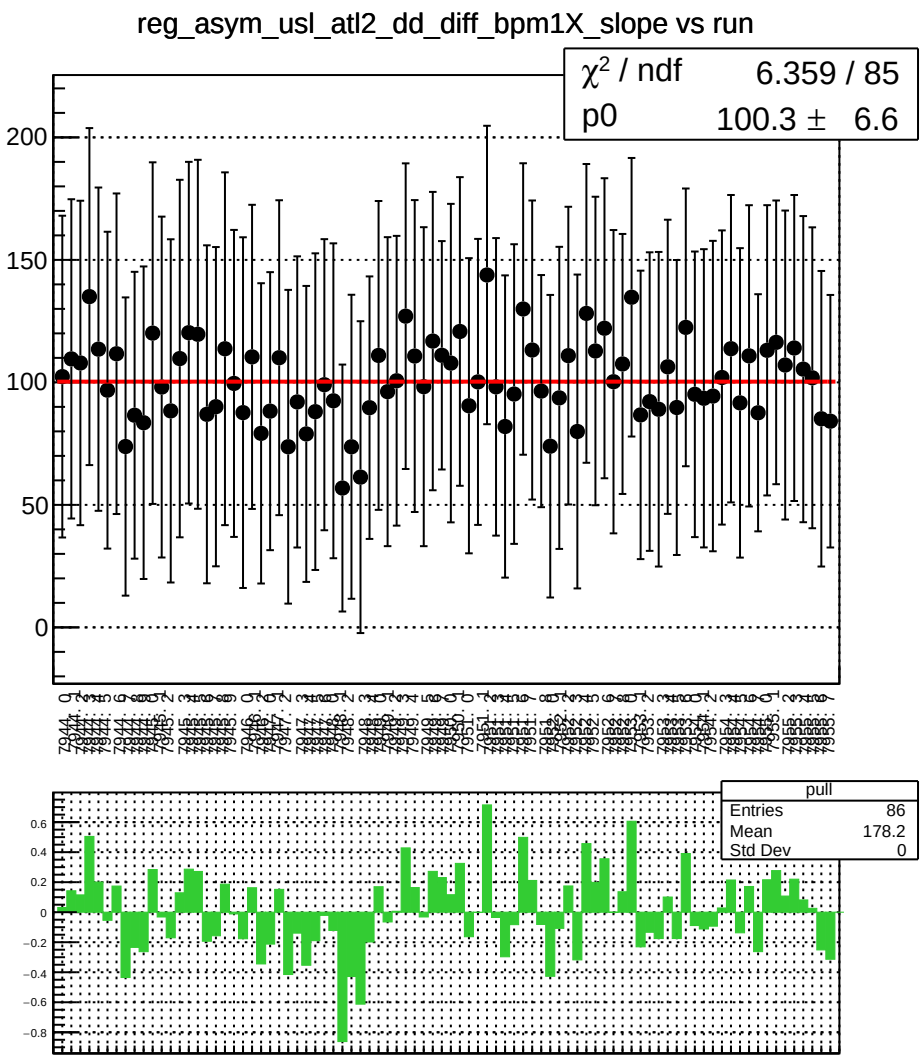

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.36 / 85
p0 72.13 ± 7.074
pull
Entries 86
Mean 154.4
Std Dev 0

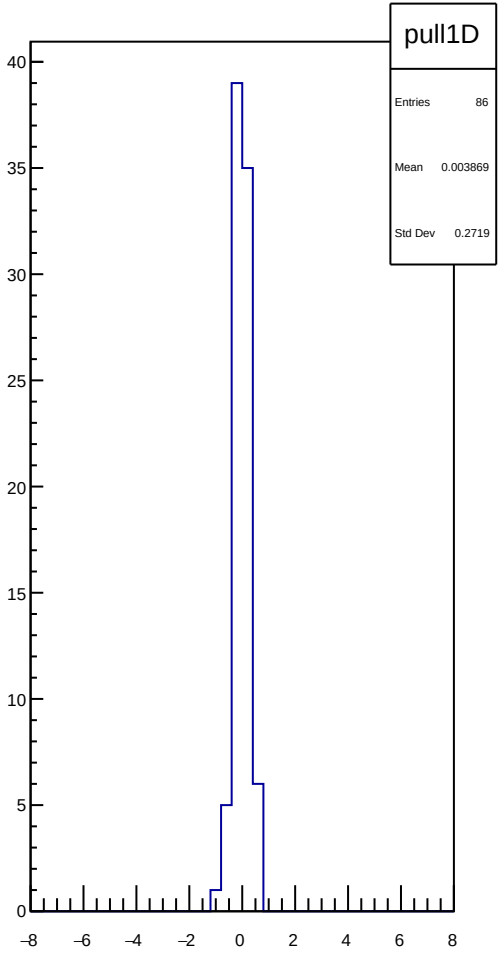

pull1D
Entries 86
Mean 0.008732
Std Dev 0.3469

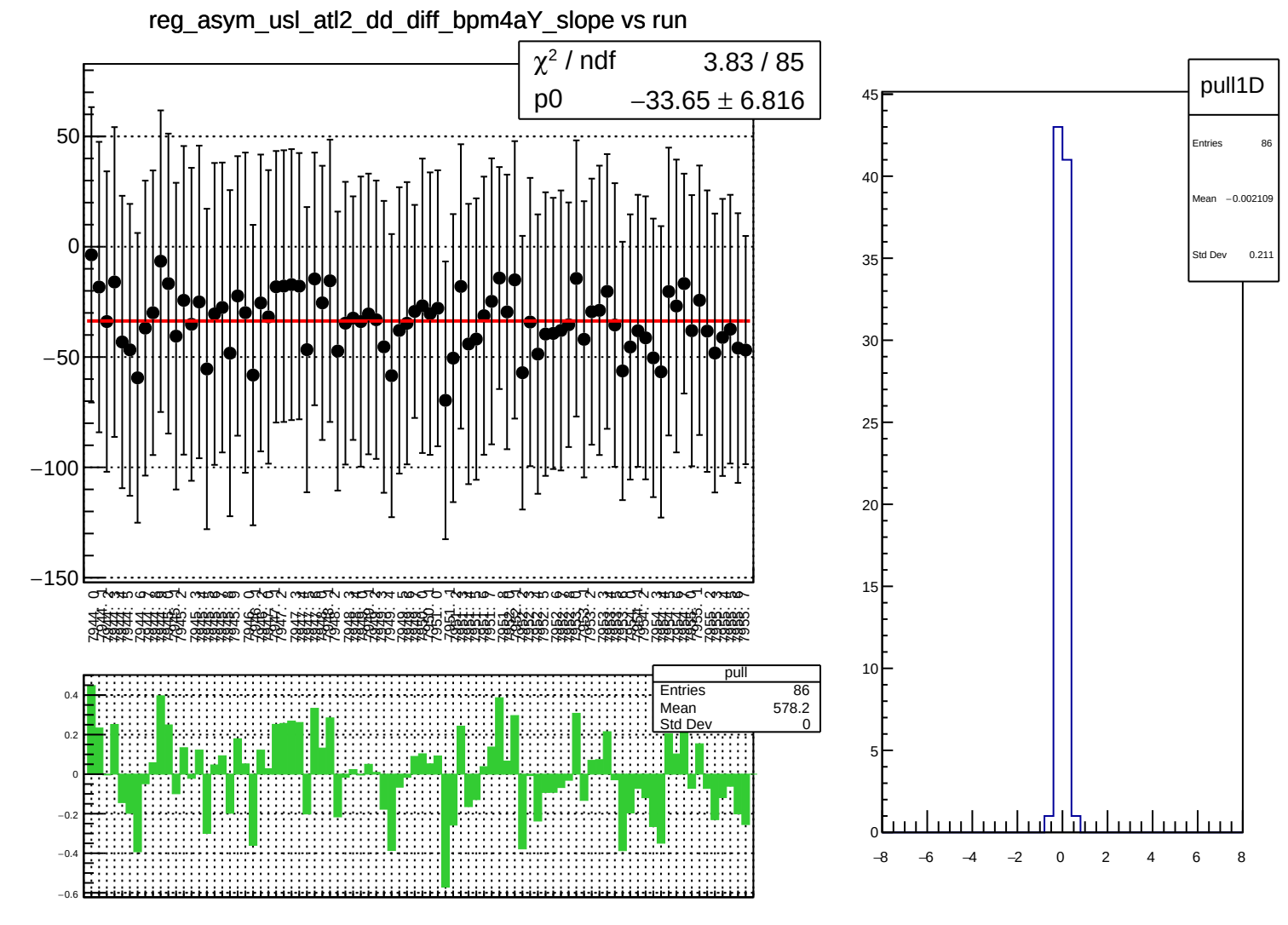

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.633 / 85
p0 23.84 ± 9.454
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 5.781
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 86
Mean −0.001548
Std Dev 0.2979
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

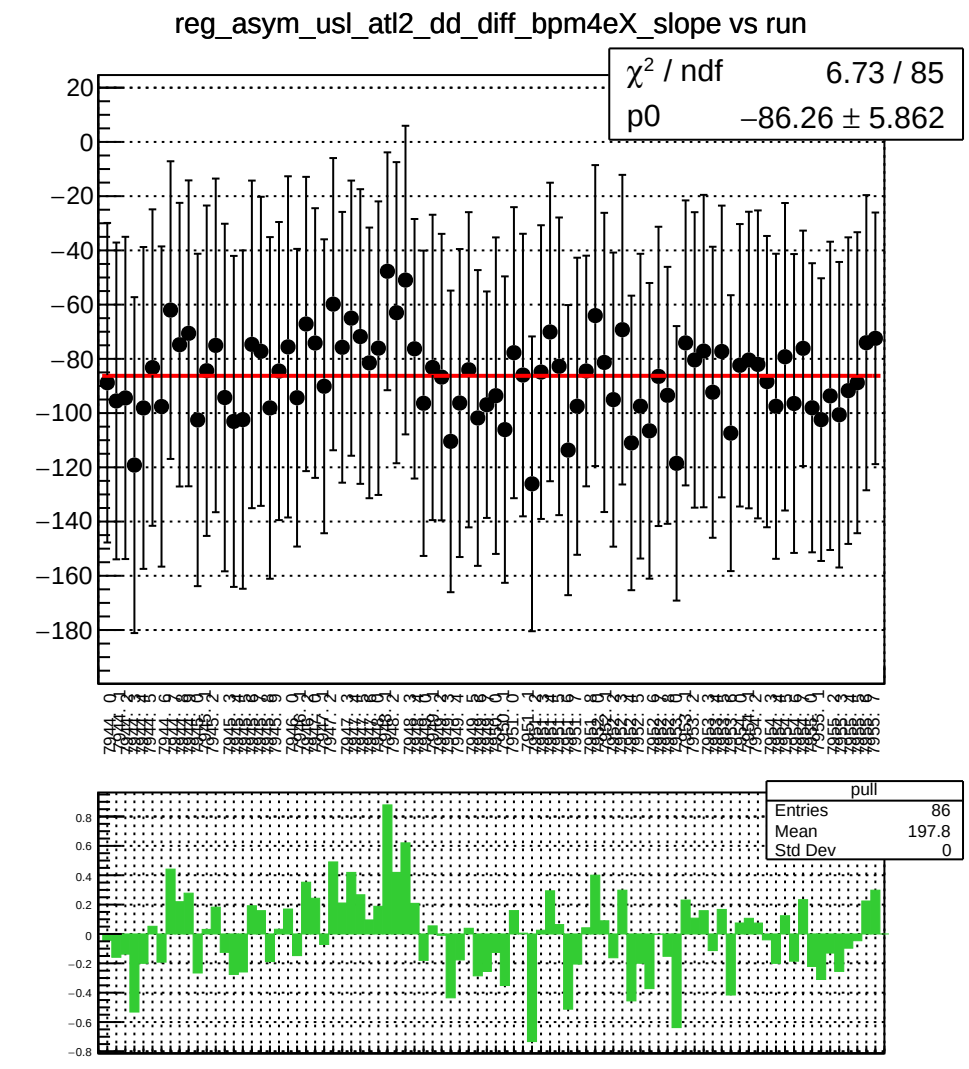

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 15.9 / 85
p0 −145.9 ± 0.2654
pull
Entries 86
Mean −591.5
Std Dev 0

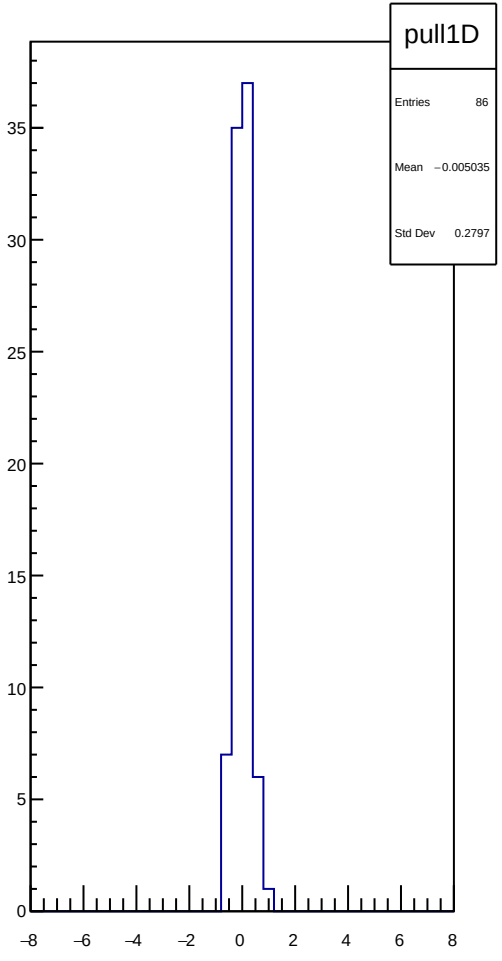

pull1D
Entries 86
Mean 0.003045
Std Dev 0.43

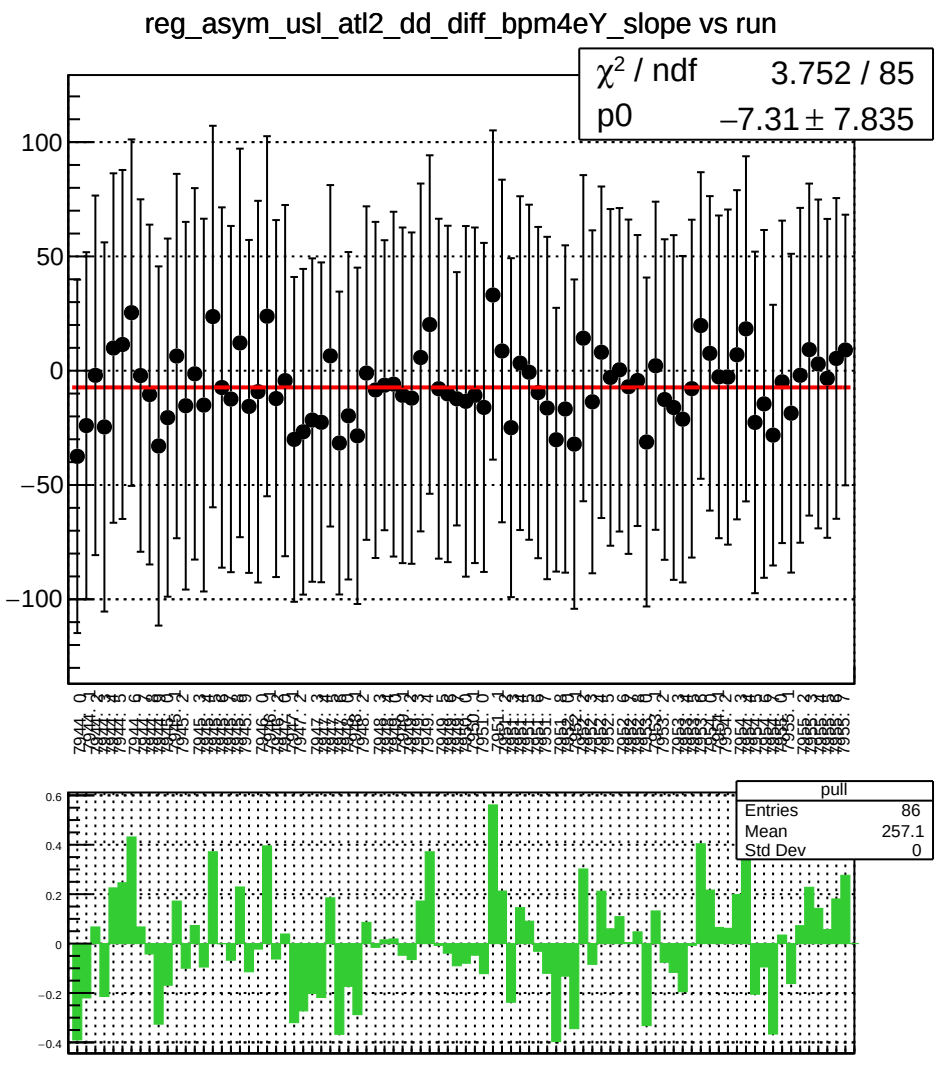

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 6.359 / 85
p0 100.3 ± 6.6
200
150
100
50
0
pull
Entries 86
Mean 178.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

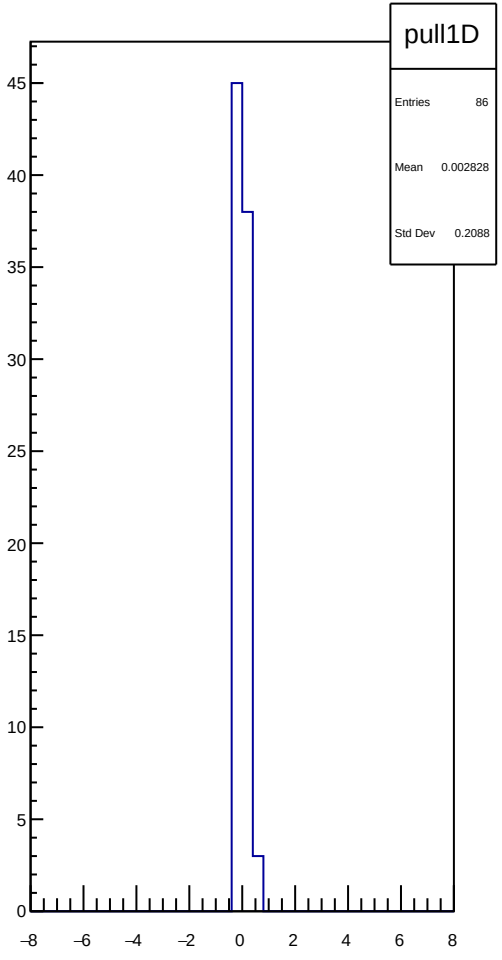

pull1D
Entries 86
Mean 0.003869
Std Dev 0.2719
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

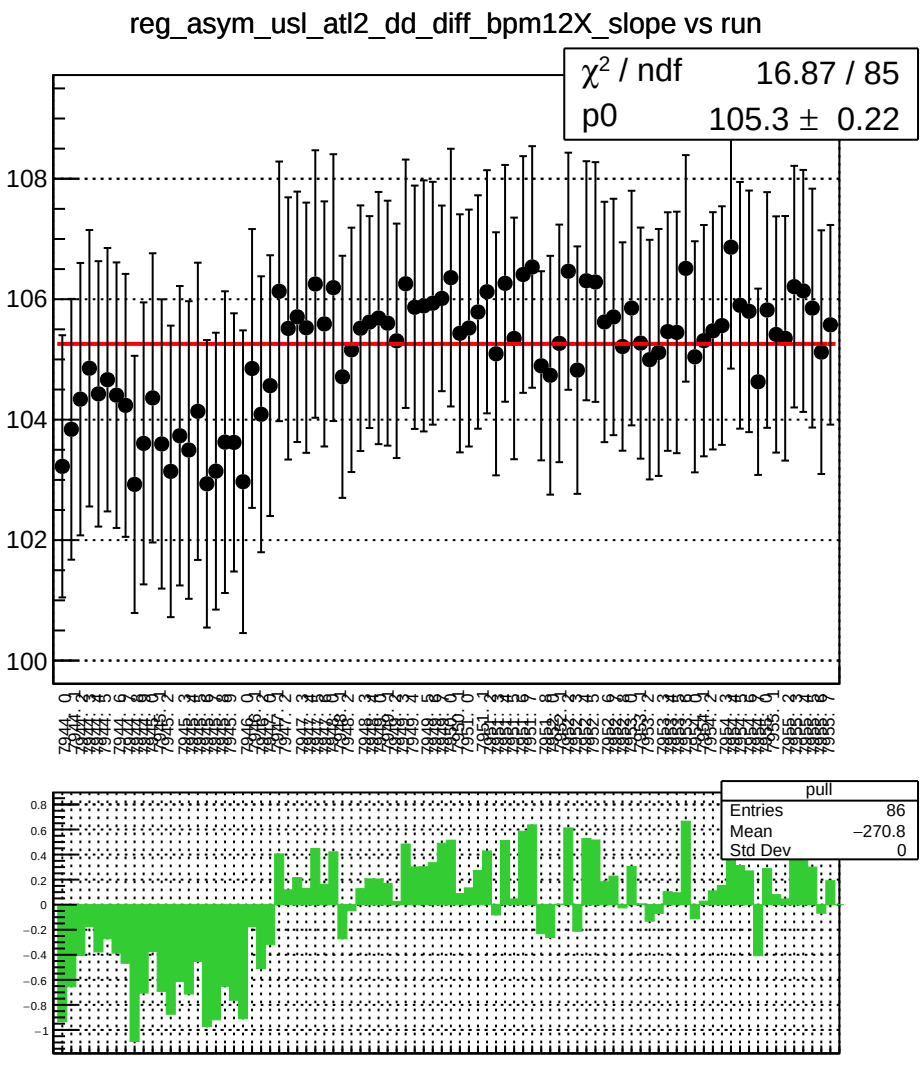

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.83 / 85
p0 −33.65 ± 6.816
pull
Entries 86
Mean 578.2
Std Dev 0
pull1D
Entries 86
Mean −0.002109
Std Dev 0.211

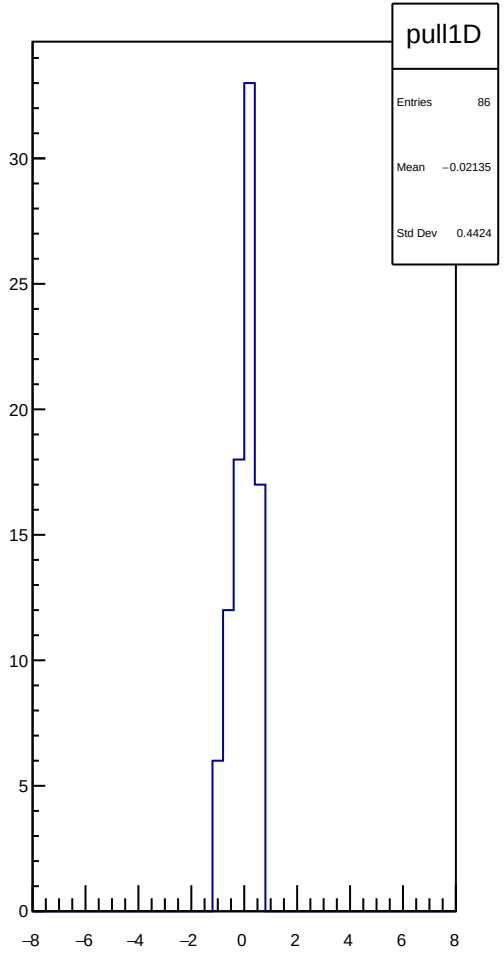

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.73 / 85
p0 −86.26 ± 5.862
pull
Entries 86
Mean 197.8
Std Dev 0

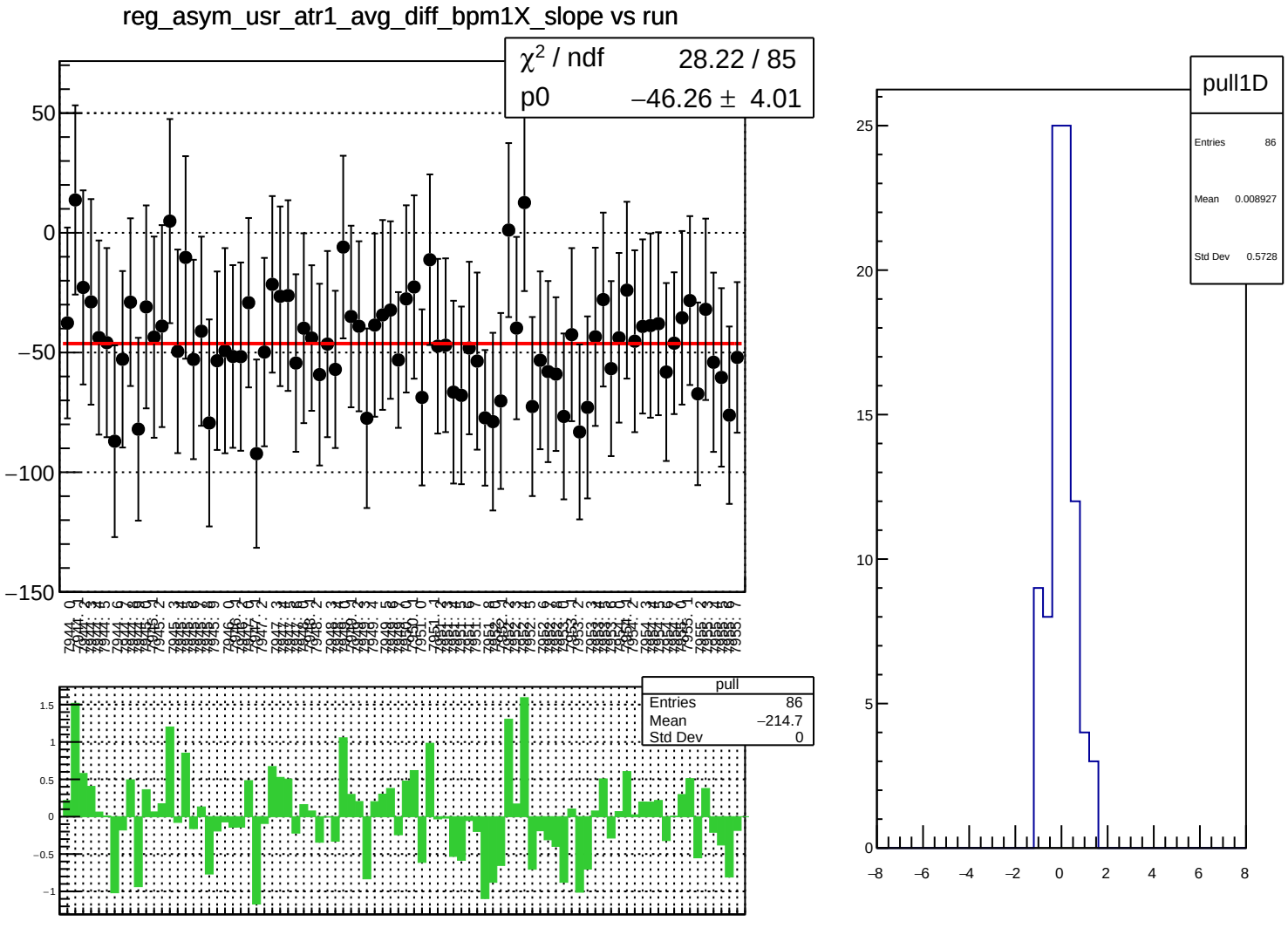

pull1D
Entries 86
Mean −0.005035
Std Dev 0.2797

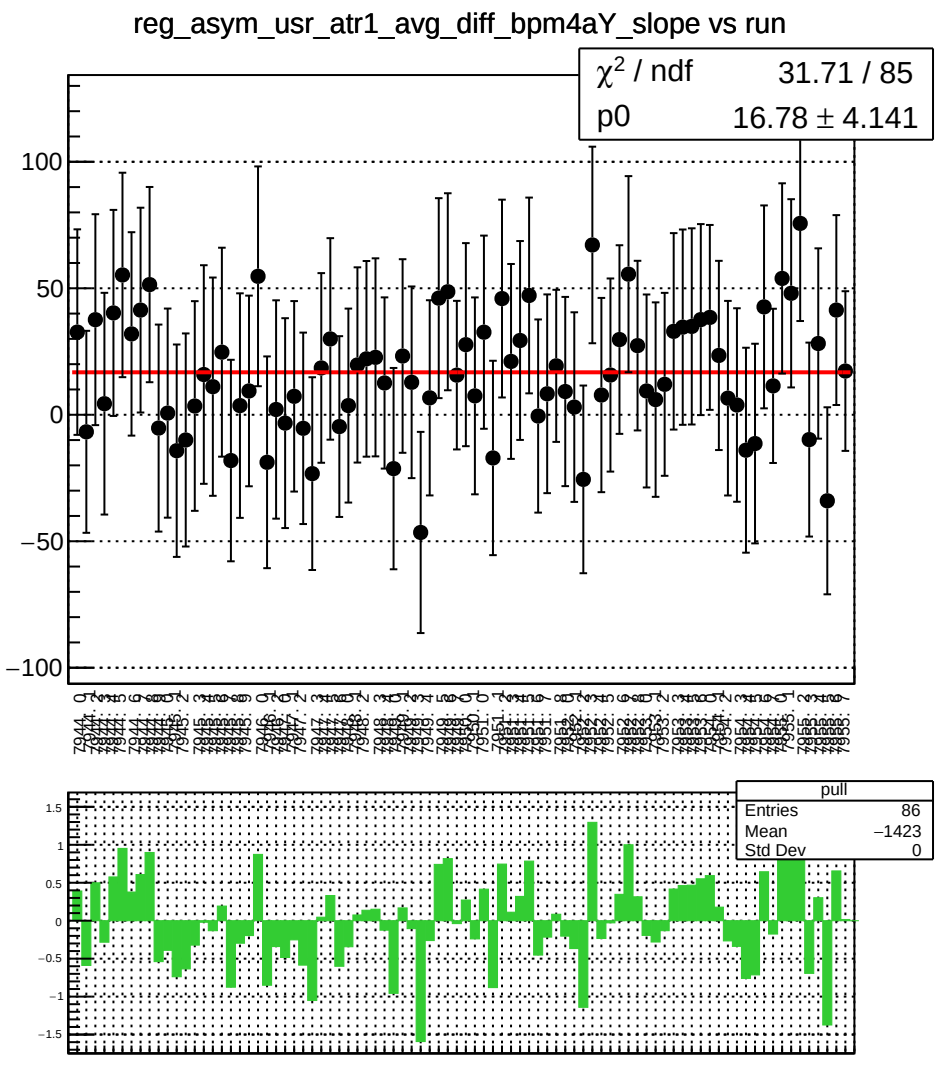

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.752 / 85
p0 −7.31 ± 7.835
pull
Entries 86
Mean 257.1
Std Dev 0

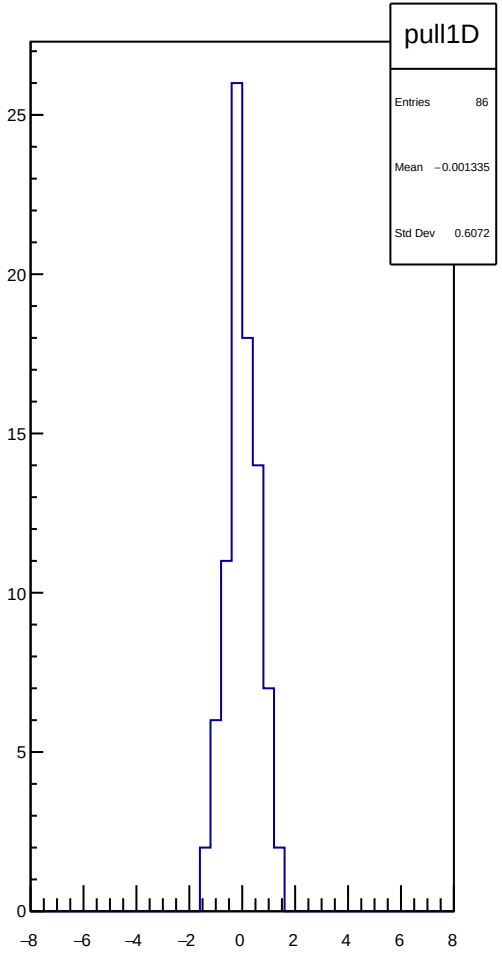

pull1D
Entries 86
Mean 0.002828
Std Dev 0.2088

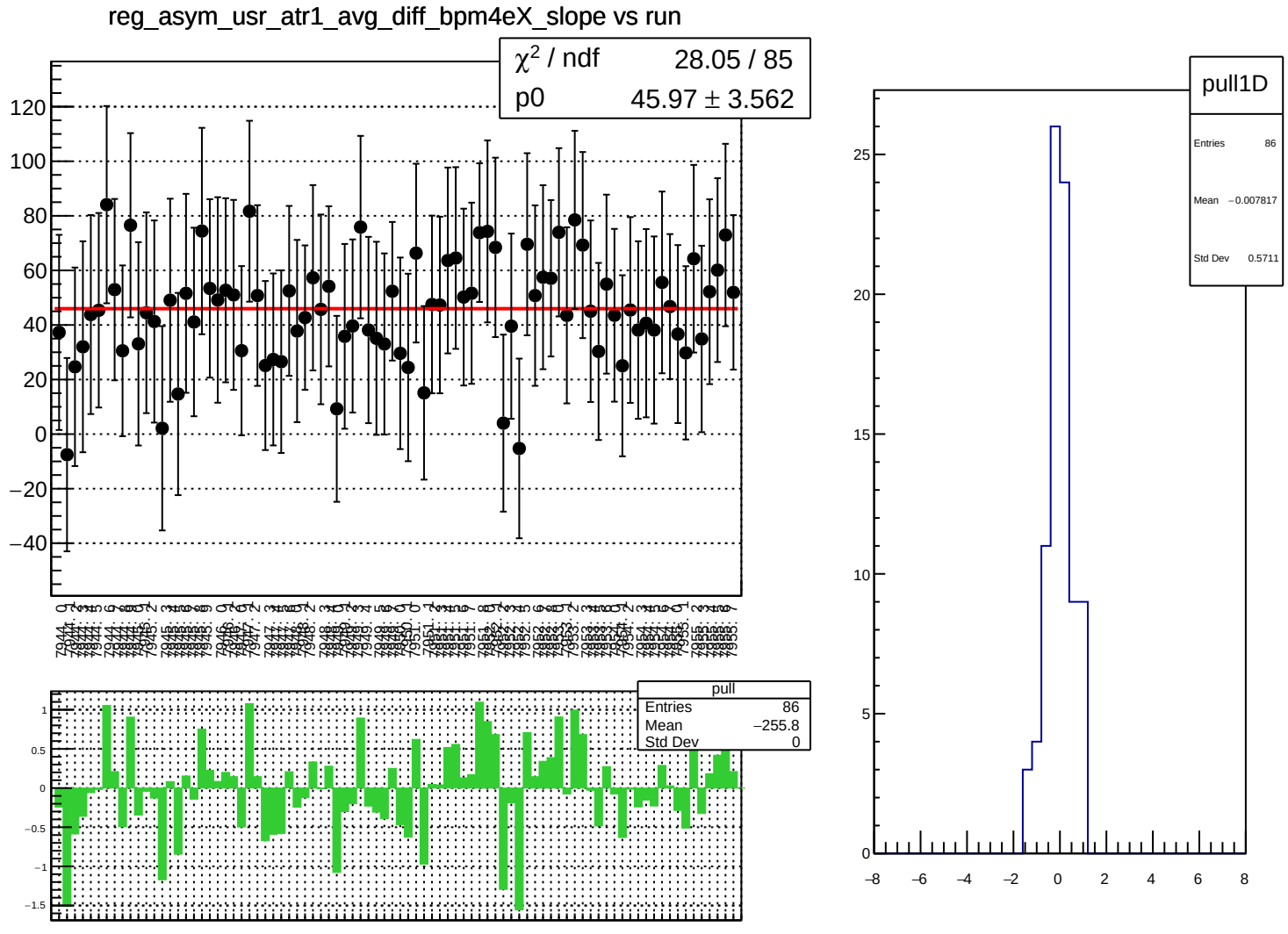

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 16.87 / 85
p0 105.3 ± 0.22
108
106
104
102
100
pull
Entries 86
Mean −270.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

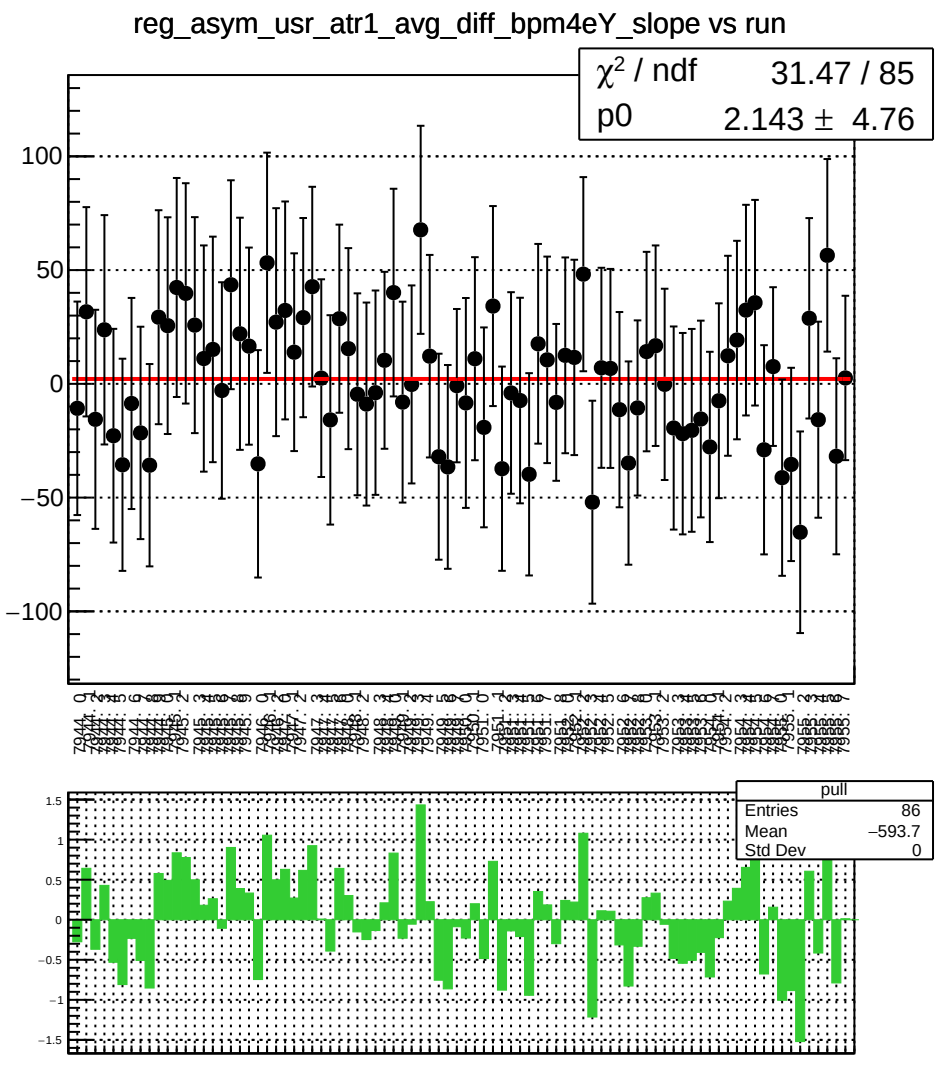

pull1D
Entries 86
Mean −0.02135
Std Dev 0.4424
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

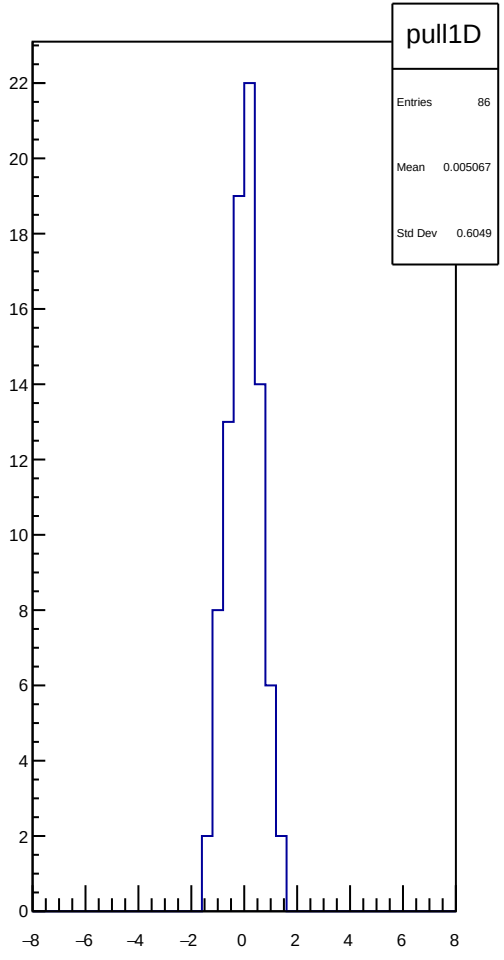

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 28.22 / 85
p0 −46.26 ± 4.01
pull
Entries 86
Mean −214.7
Std Dev 0
pull1D
Entries 86
Mean 0.008927
Std Dev 0.5728

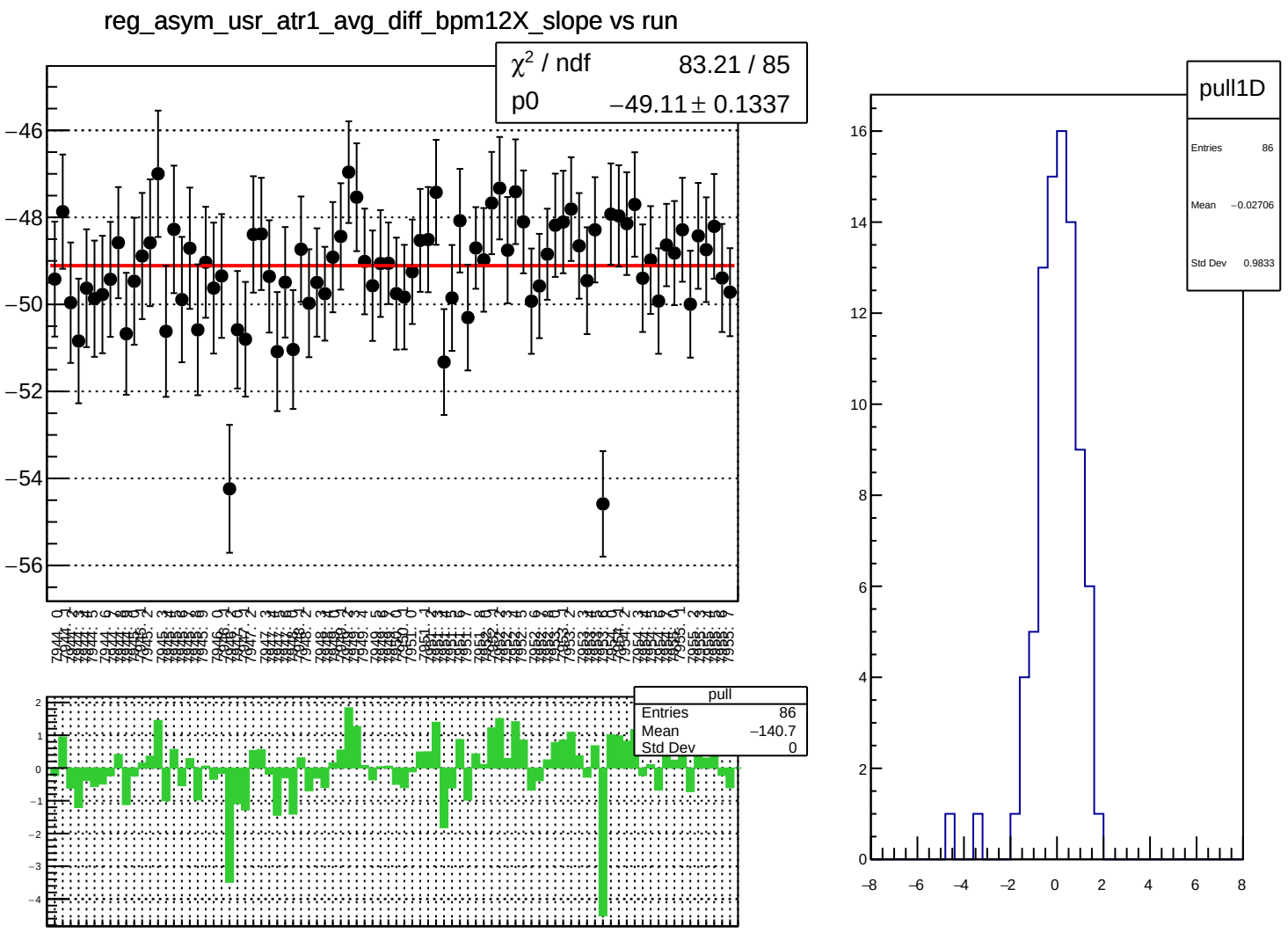

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.71 / 85
p0 16.78 ± 4.141
pull
Entries 86
Mean −1423
Std Dev 0

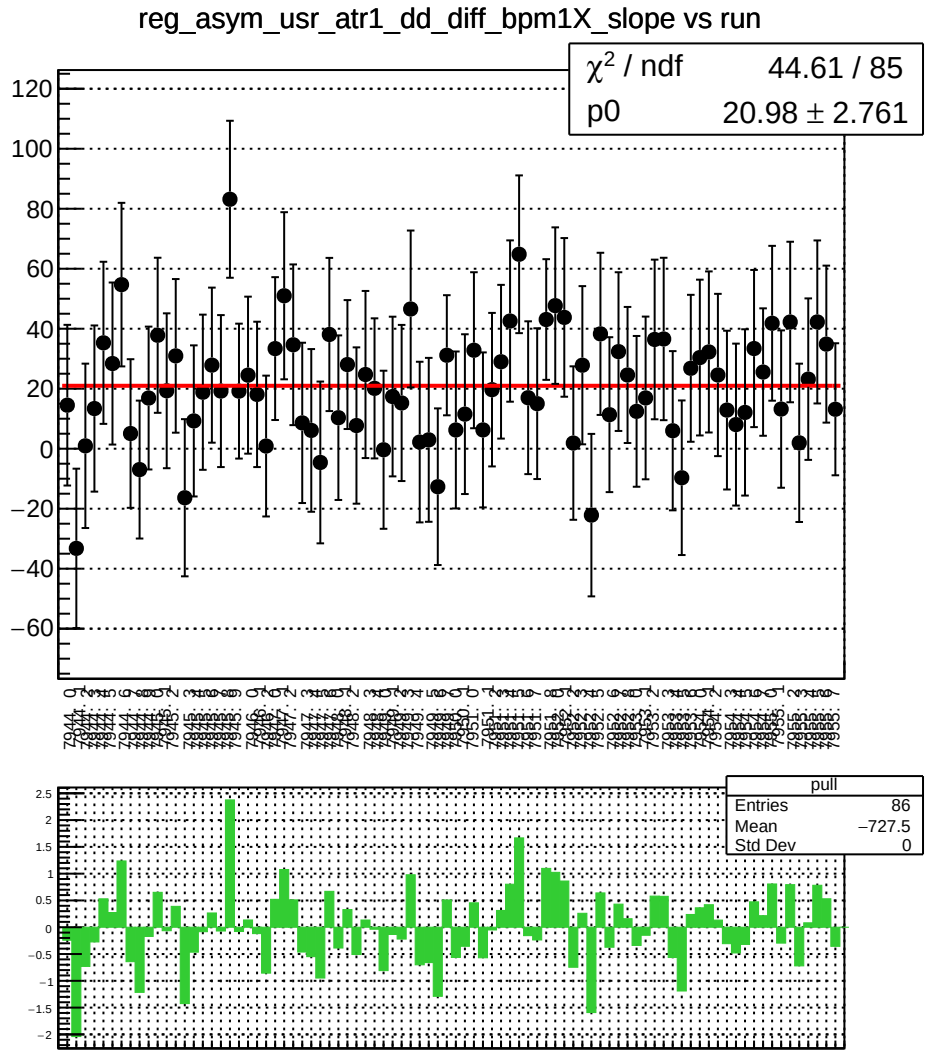

pull1D
Entries 86
Mean −0.001335
Std Dev 0.6072

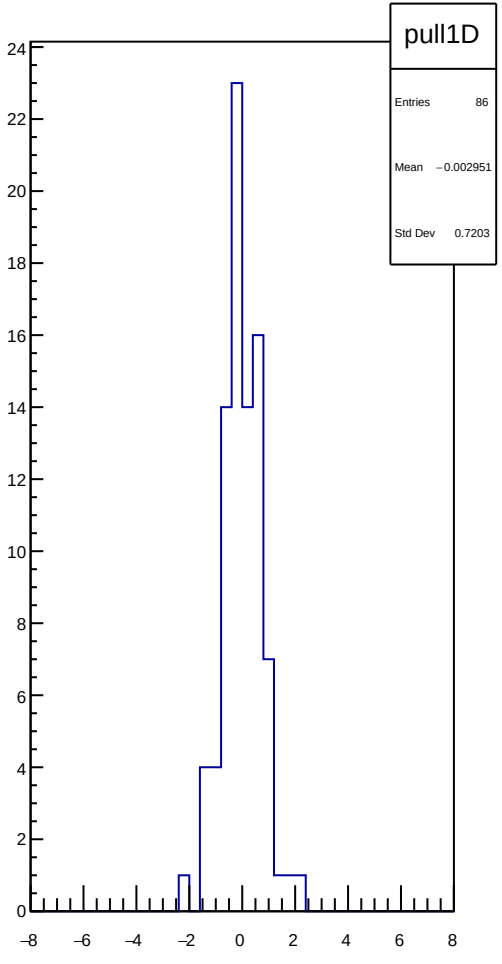

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.05 / 85
p0 45.97 ± 3.562
pull
Entries 86
Mean −255.8
Std Dev 0
pull1D
Entries 86
Mean −0.007817
Std Dev 0.5711

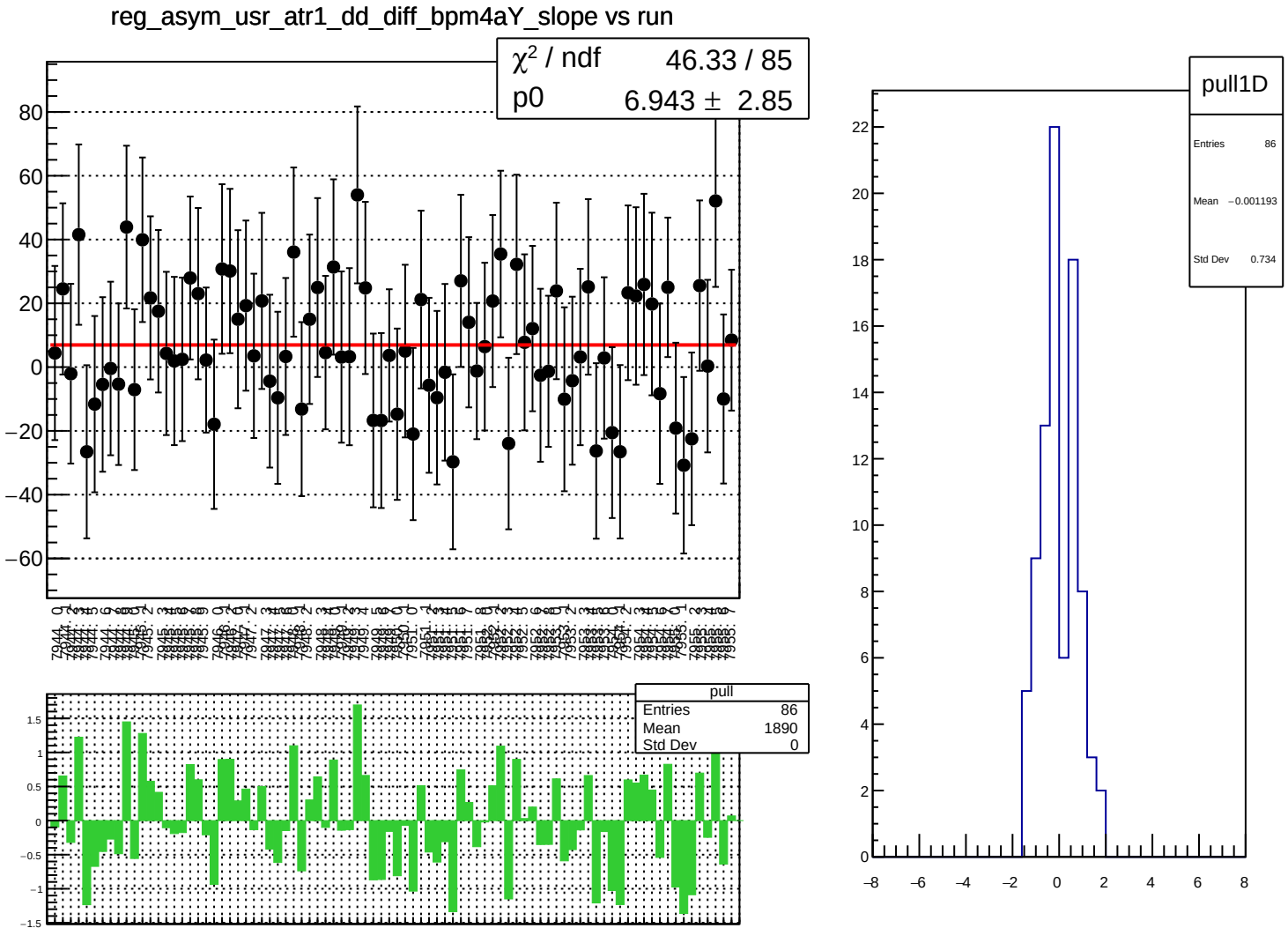

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.47 / 85
p0 2.143 ± 4.76
100
50
0
−50
−100
pull
Entries 86
Mean −593.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

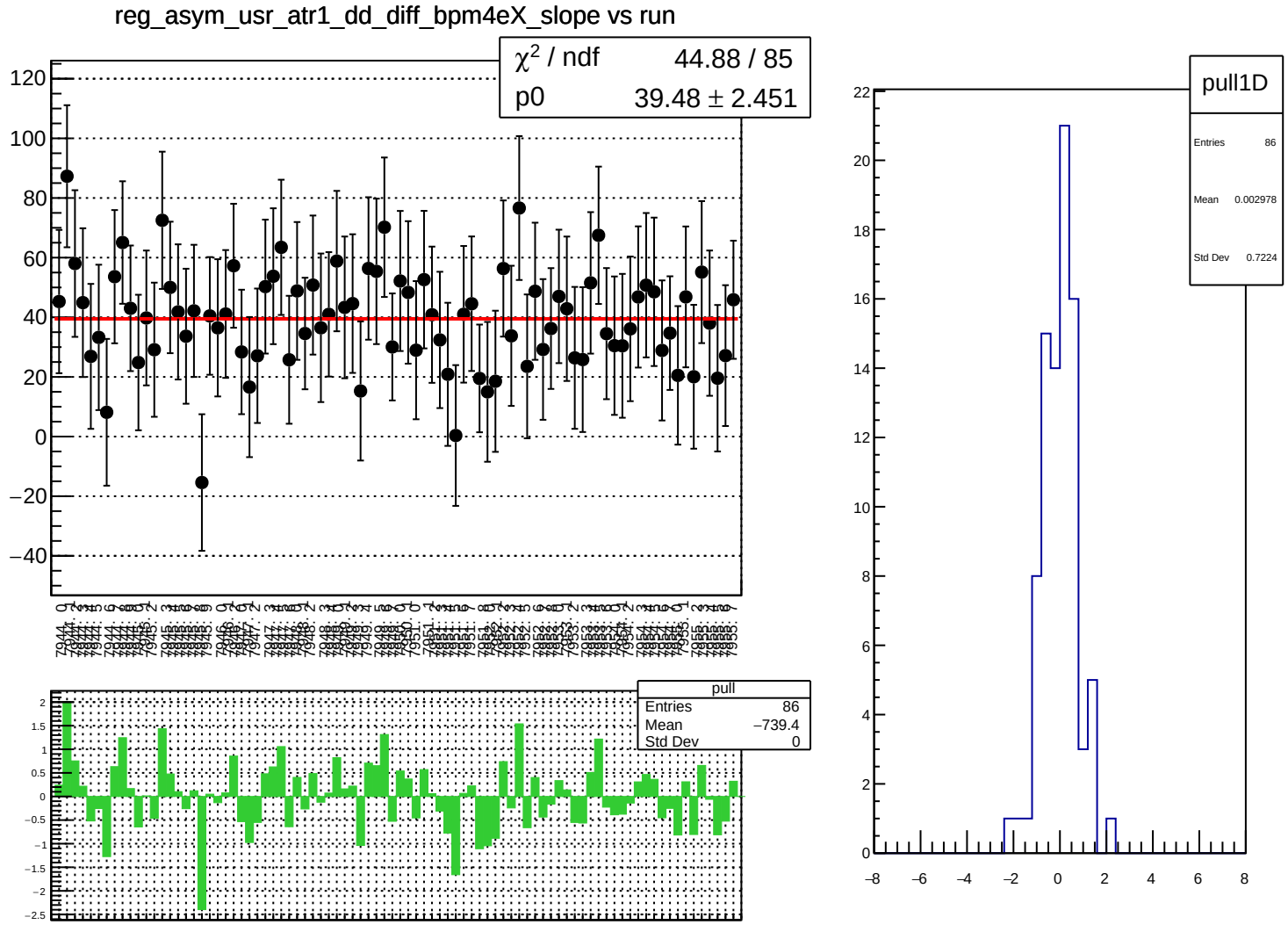

pull1D
Entries 86
Mean 0.005067
Std Dev 0.6049
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

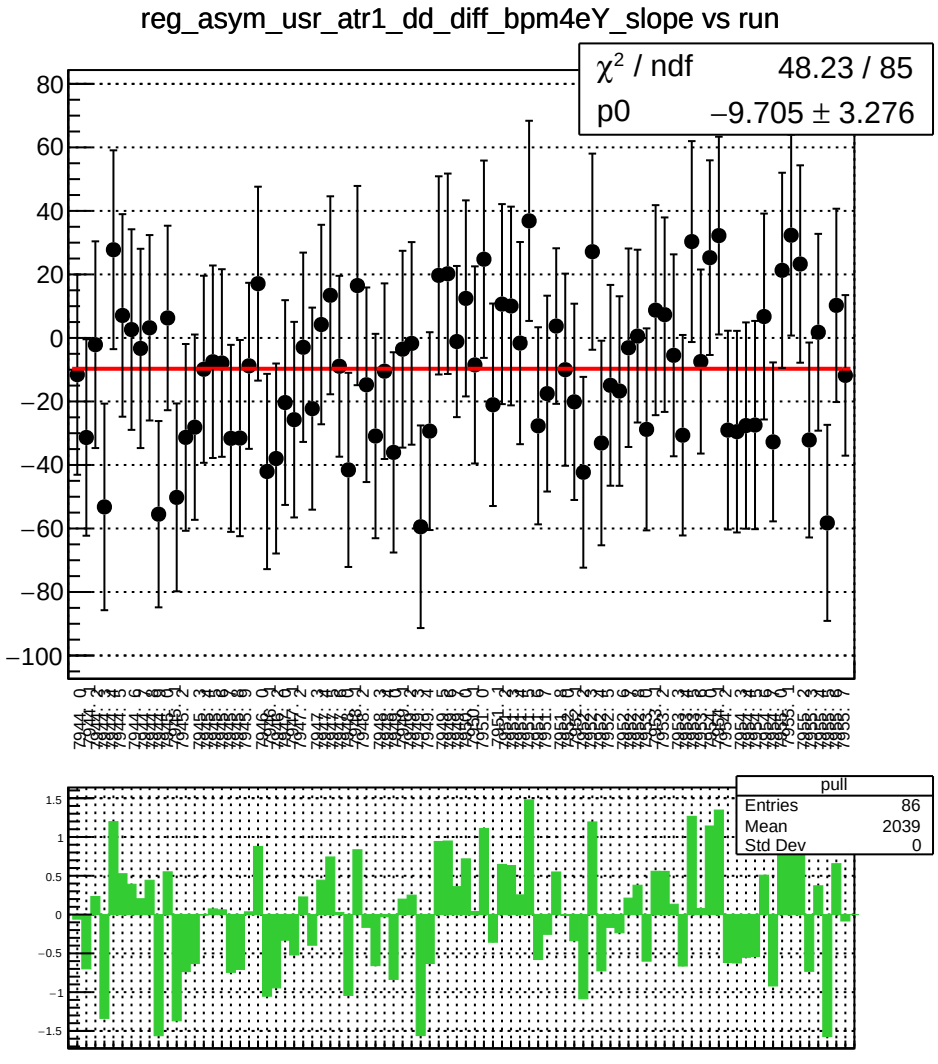

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 83.21 / 85
p0 −49.11 ± 0.1337
pull
Entries 86
Mean −140.7
Std Dev 0
pull1D
Entries 86
Mean −0.02706
Std Dev 0.9833

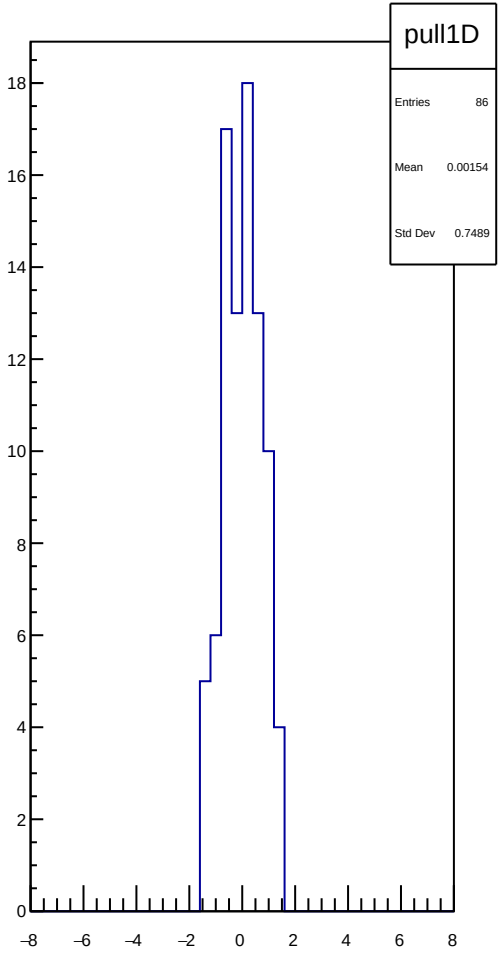

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 44.61 / 85
p0 20.98 ± 2.761
pull
Entries 86
Mean −727.5
Std Dev 0

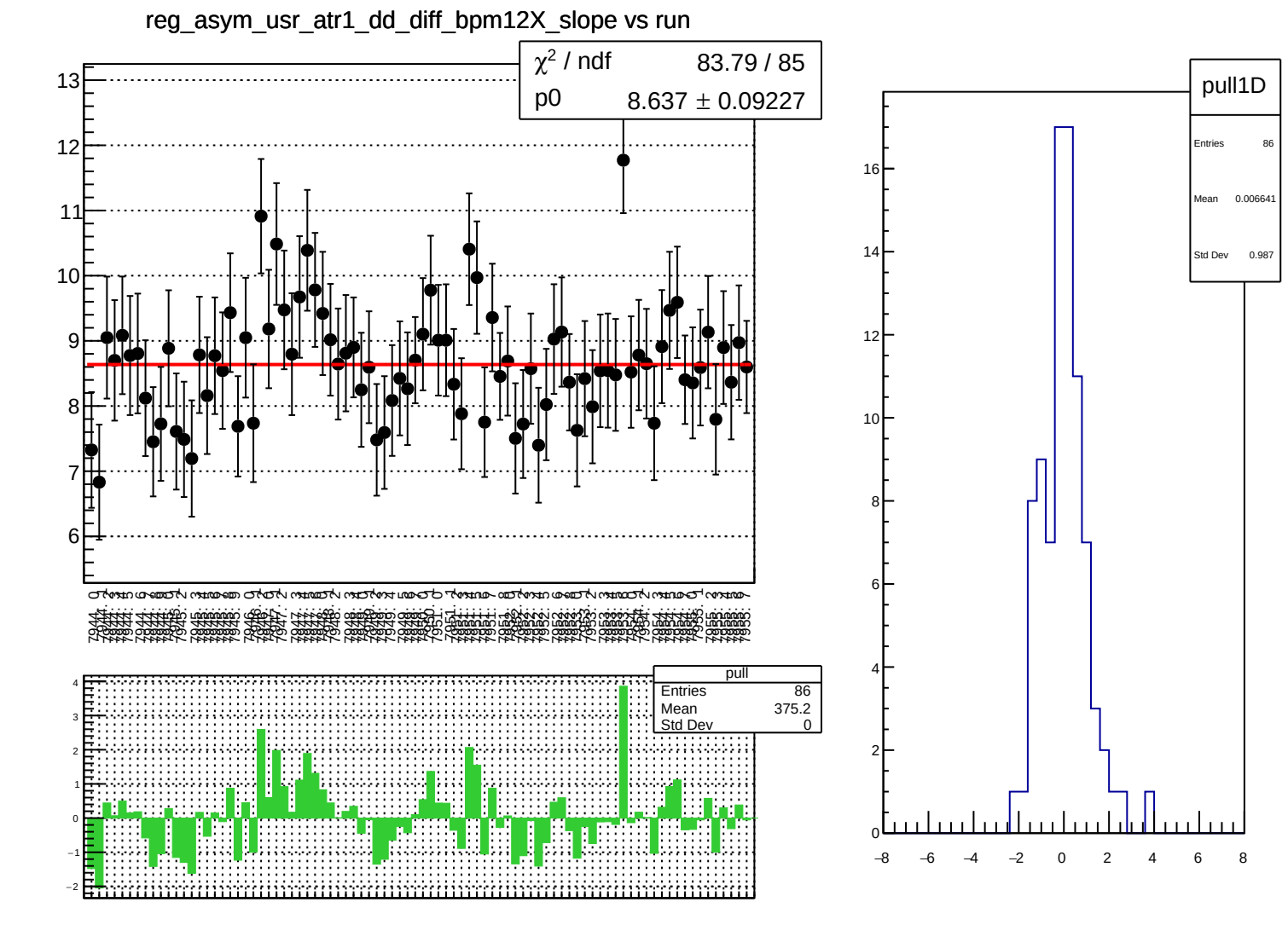

pull1D
Entries 86
Mean −0.002951
Std Dev 0.7203

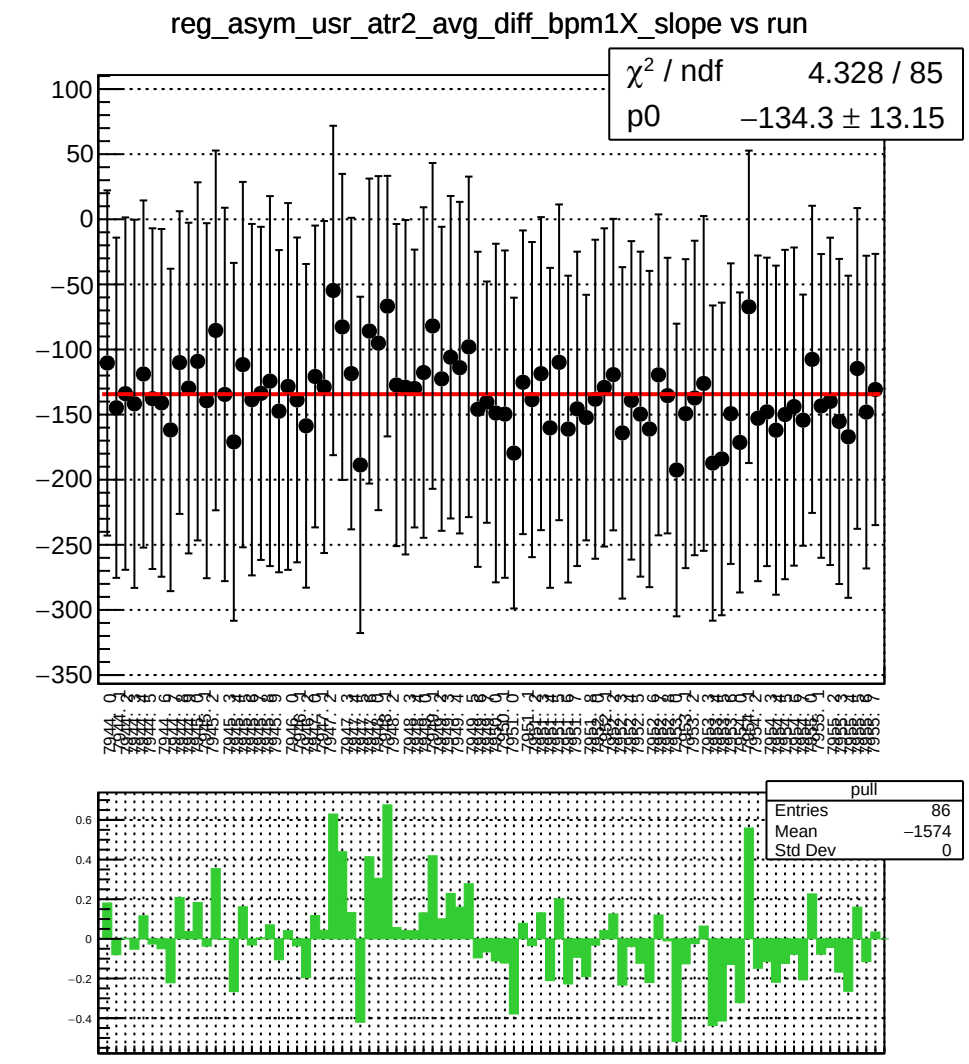

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.33 / 85
p0 6.943 ± 2.85
pull
Entries 86
Mean 1890
Std Dev 0
pull1D
Entries 86
Mean −0.001193
Std Dev 0.734

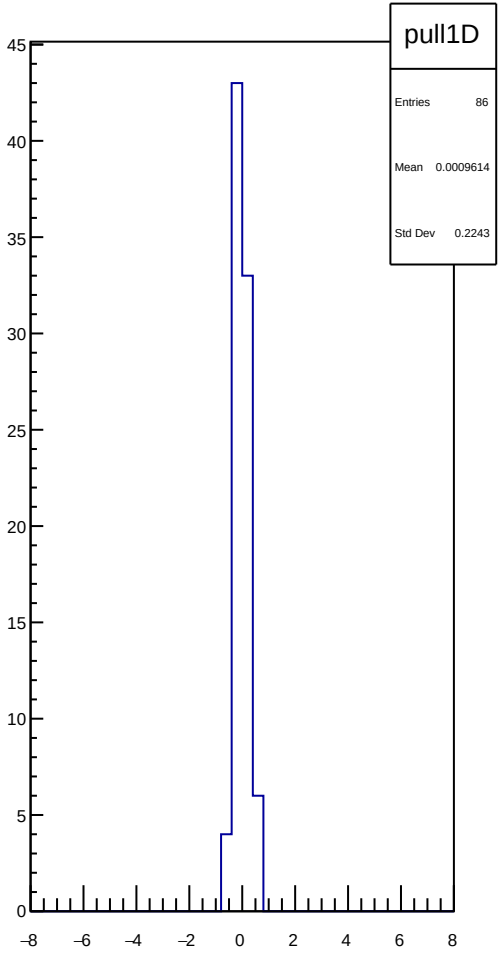

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.88 / 85
p0 39.48 ± 2.451
pull
Entries 86
Mean −739.4
Std Dev 0
pull1D
Entries 86
Mean 0.002978
Std Dev 0.7224

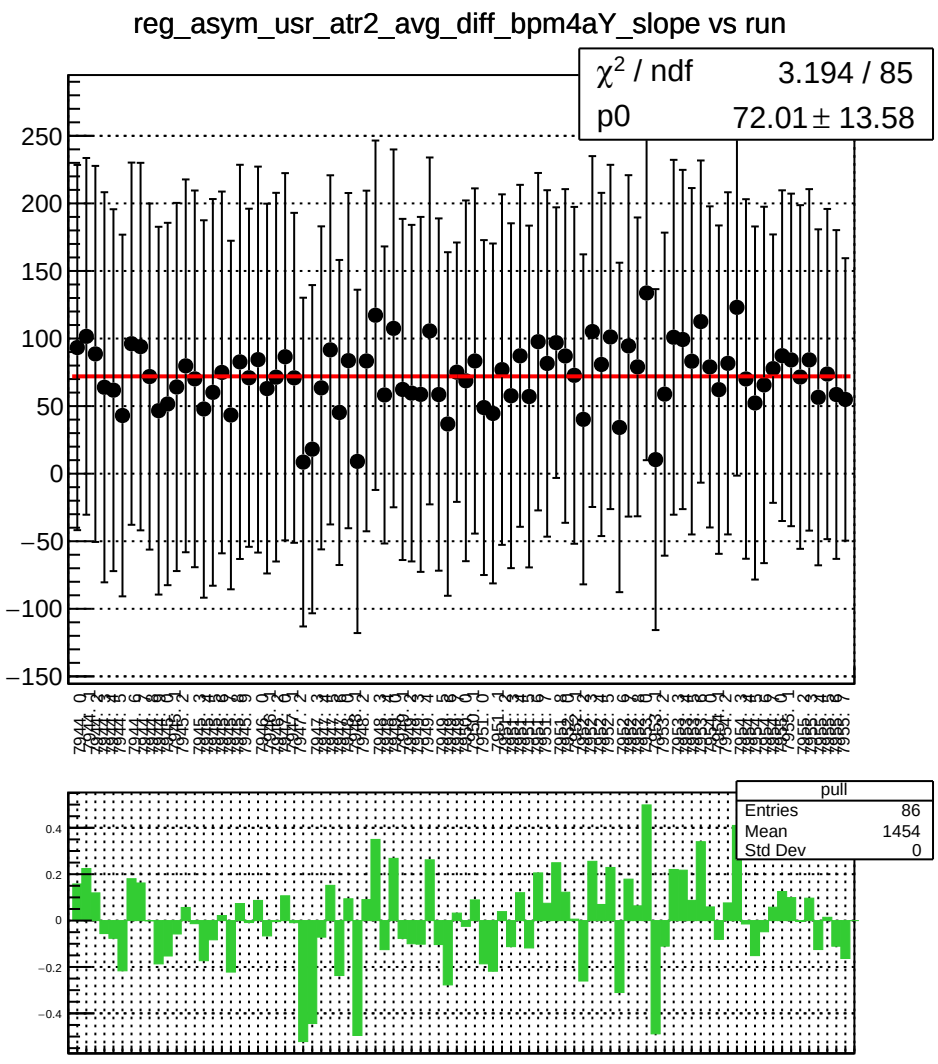

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.23 / 85
p0 −9.705 ± 3.276
pull
Entries 86
Mean 2039
Std Dev 0

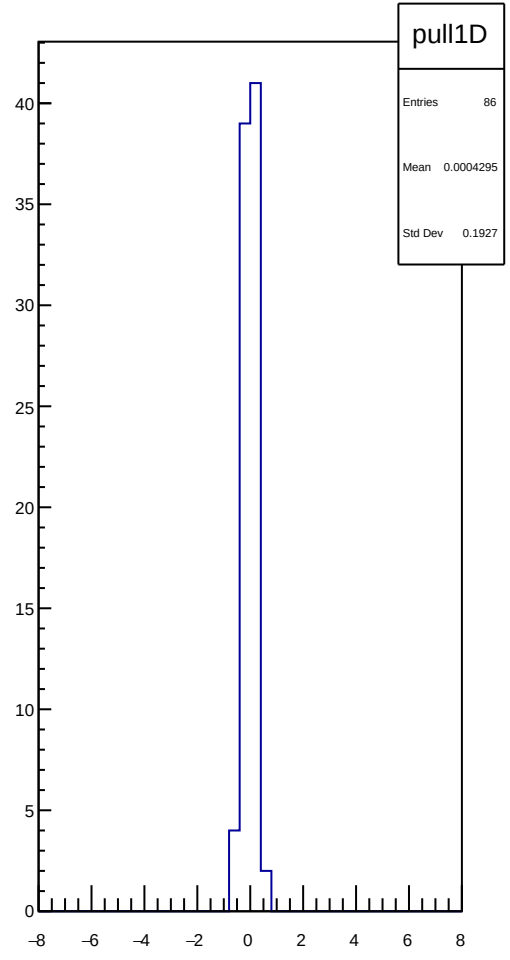

pull1D
Entries 86
Mean 0.00154
Std Dev 0.7489

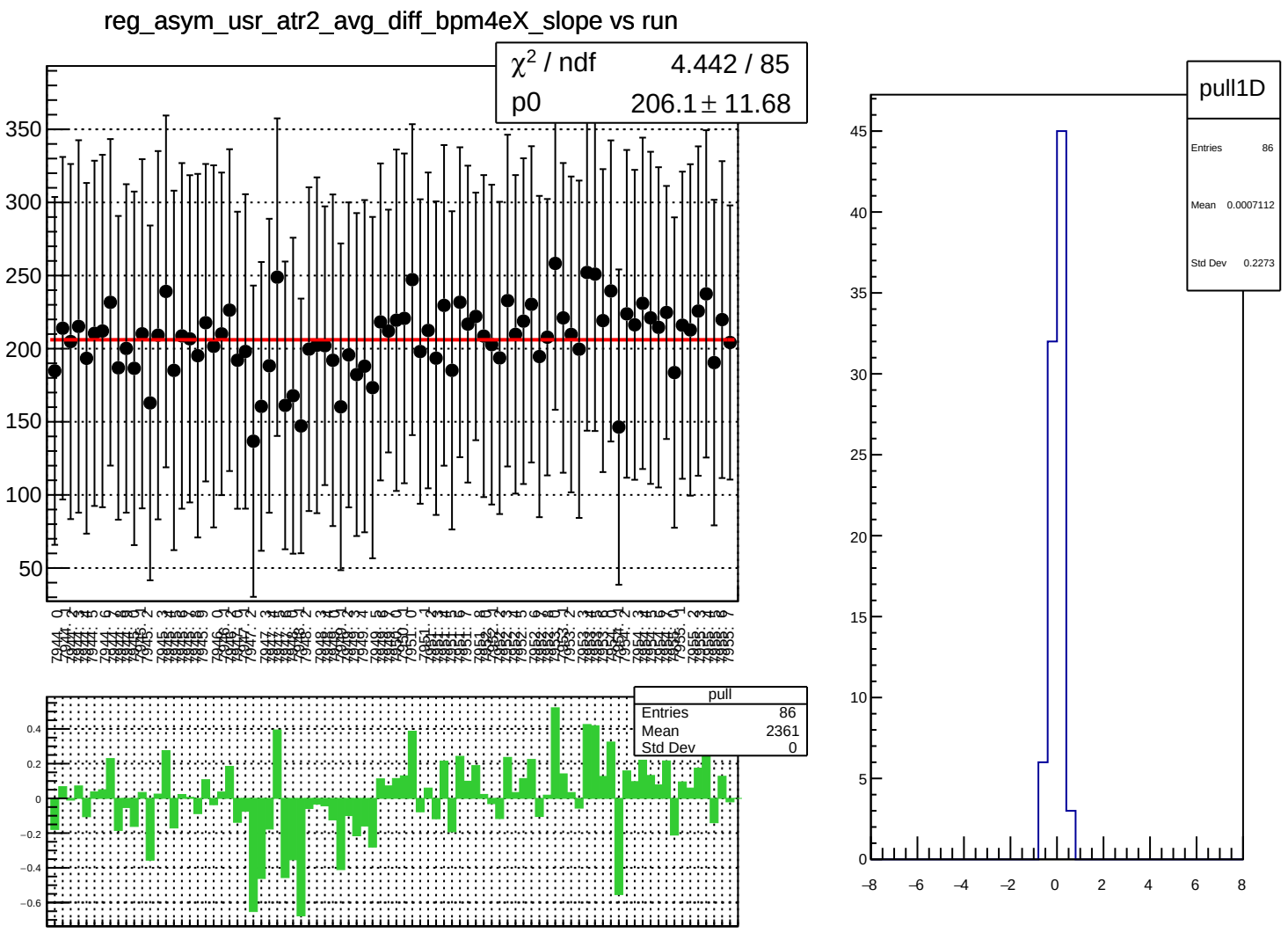

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 83.79 / 85
p0 8.637 ± 0.09227
pull
Entries 86
Mean 375.2
Std Dev 0
pull1D
Entries 86
Mean 0.006641
Std Dev 0.987

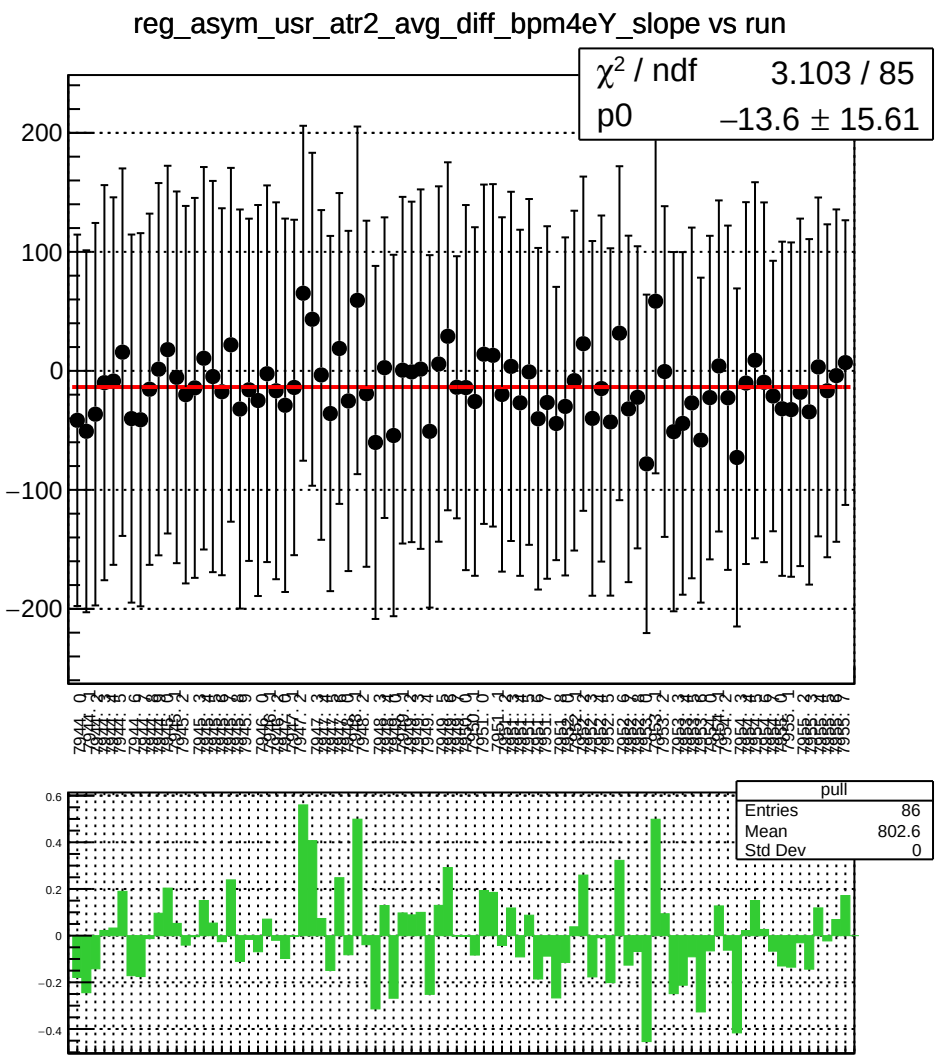

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.328 / 85
p0 −134.3 ± 13.15
pull
Entries 86
Mean −1574
Std Dev 0

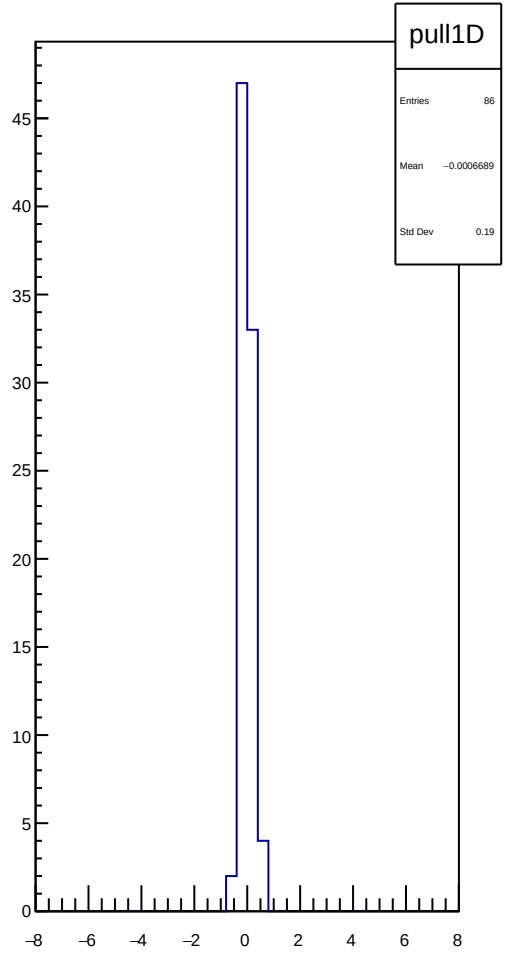

pull1D
Entries 86
Mean 0.0009614
Std Dev 0.2243

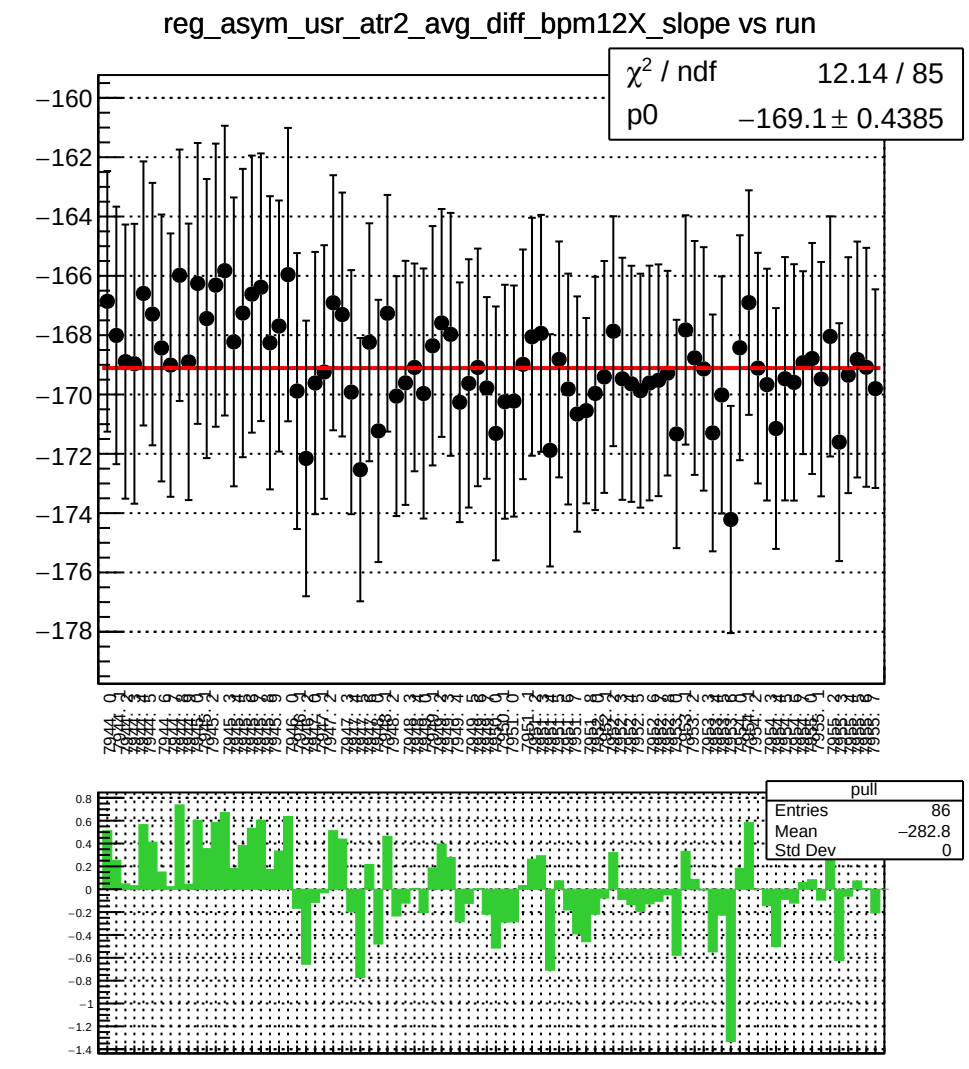

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.194 / 85
p0 72.01 ± 13.58
pull
Entries 86
Mean 1454
Std Dev 0

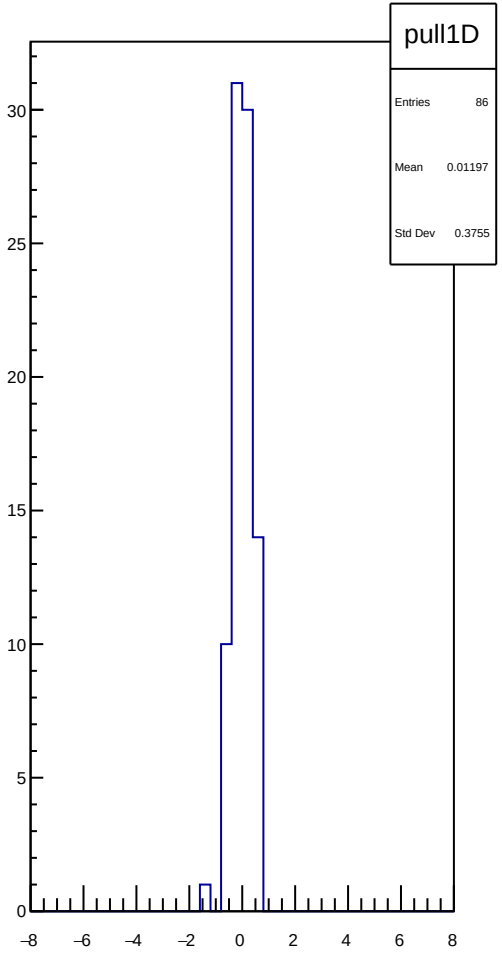

pull1D
Entries 86
Mean 0.0004295
Std Dev 0.1927

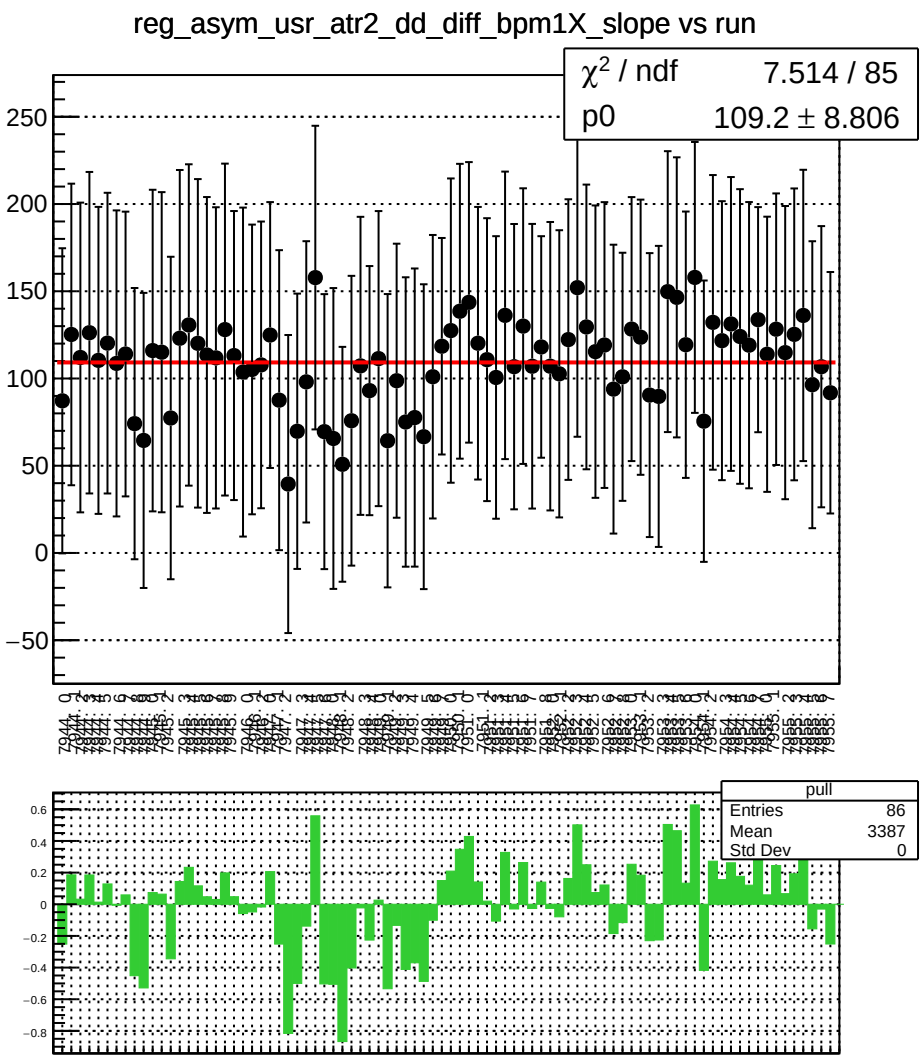

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.442 / 85
p0 206.1 ± 11.68
pull
Entries 86
Mean 2361
Std Dev 0
pull1D
Entries 86
Mean 0.0007112
Std Dev 0.2273

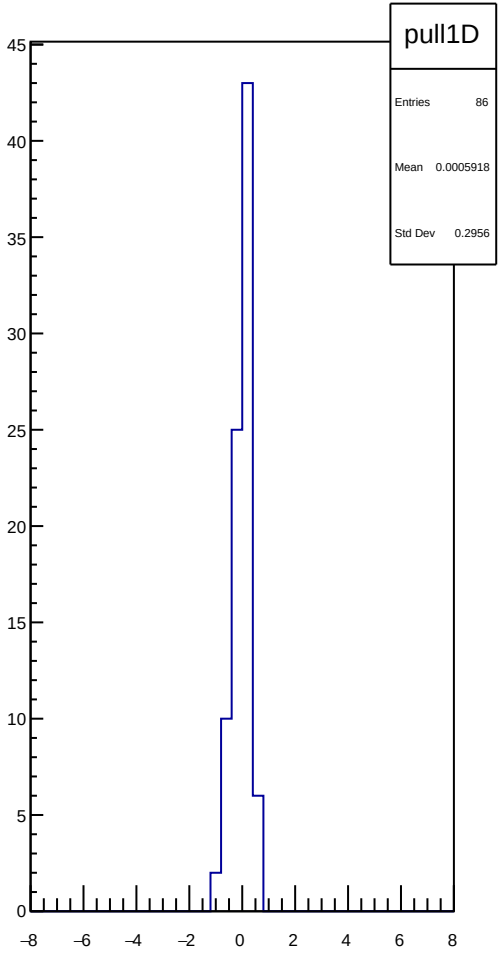

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.103 / 85
p0 −13.6 ± 15.61
200
100
0
−100
−200
pull
Entries 86
Mean 802.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

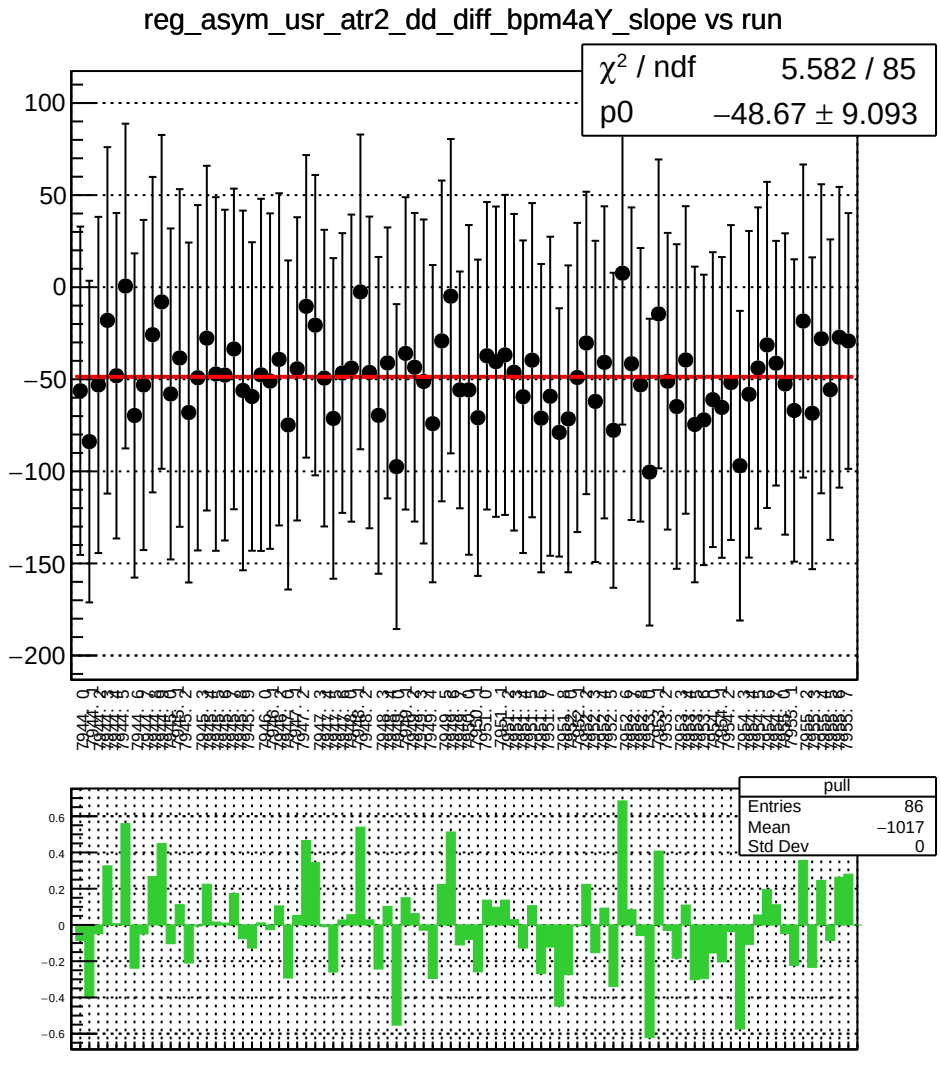

pull1D
Entries 86
Mean −0.0006689
Std Dev 0.19
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

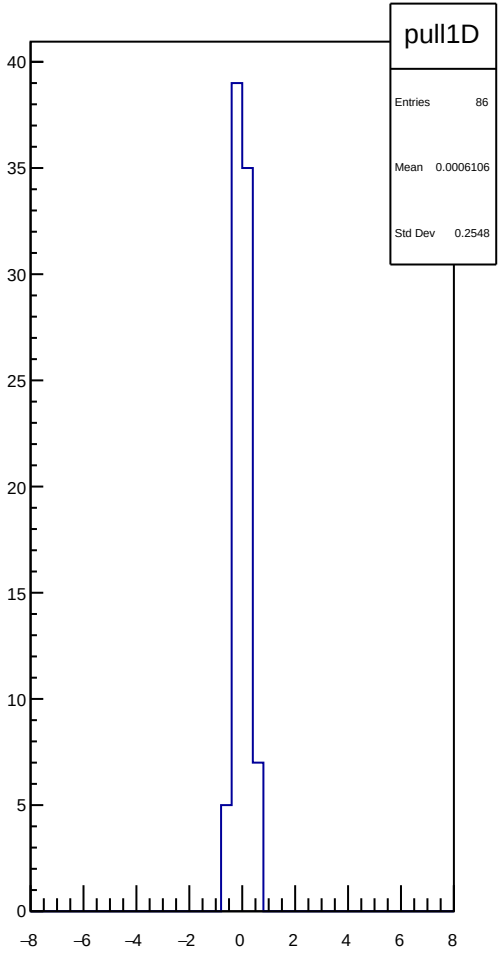

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 12.14 / 85
p0 −169.1 ± 0.4385
pull
Entries 86
Mean −282.8
Std Dev 0

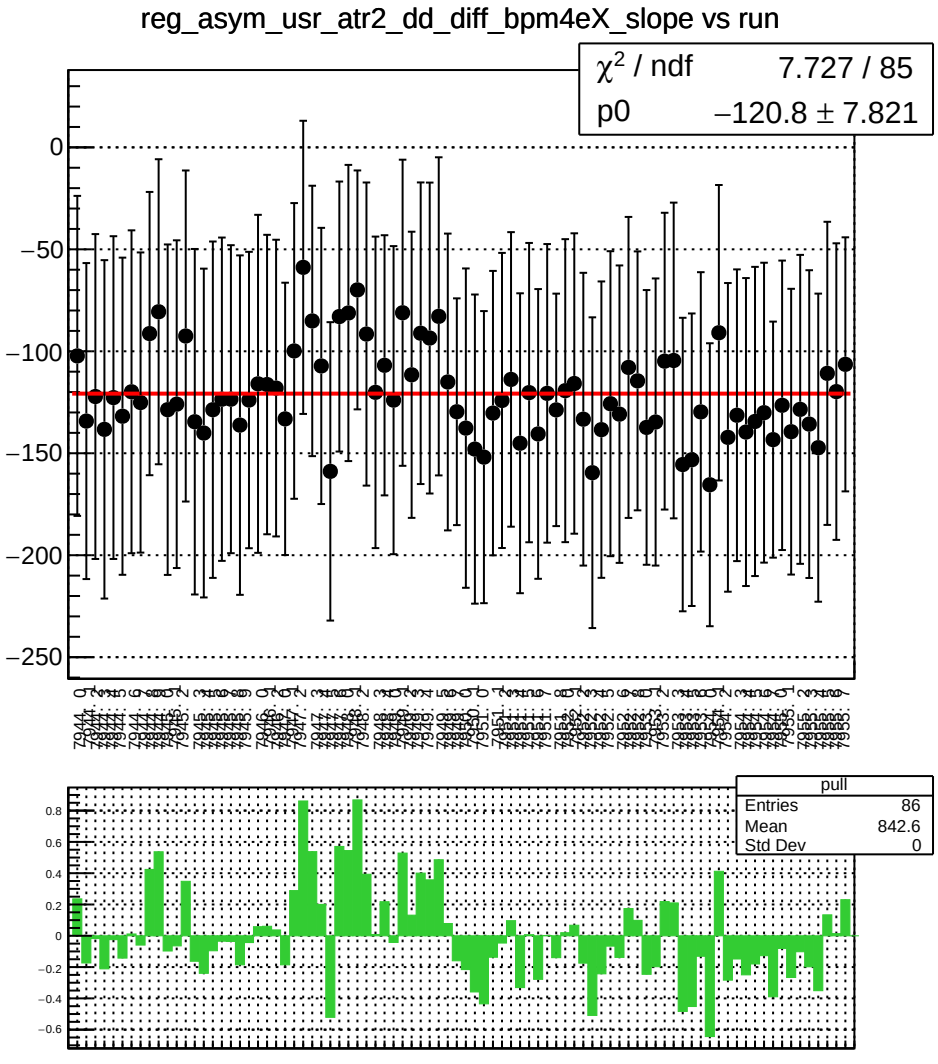

pull1D
Entries 86
Mean 0.01197
Std Dev 0.3755

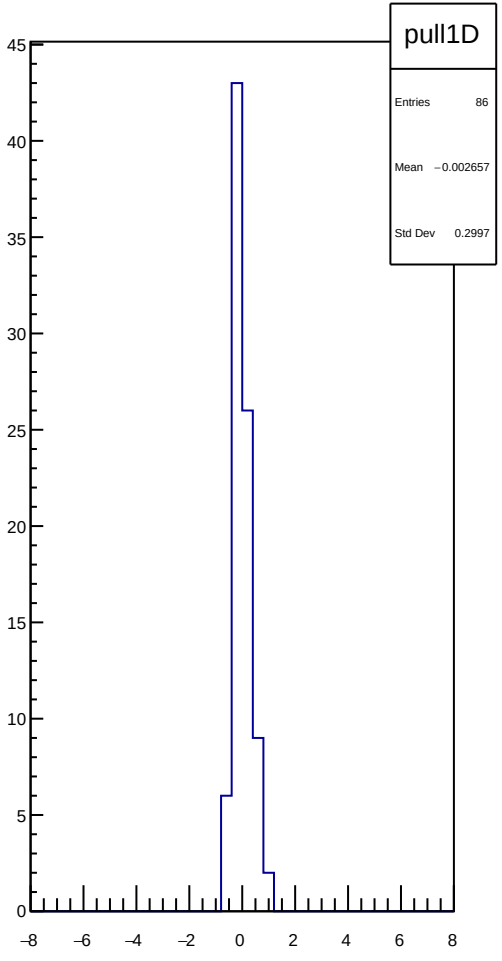

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 7.514 / 85
p0 109.2 ± 8.806
pull
Entries 86
Mean 3387
Std Dev 0

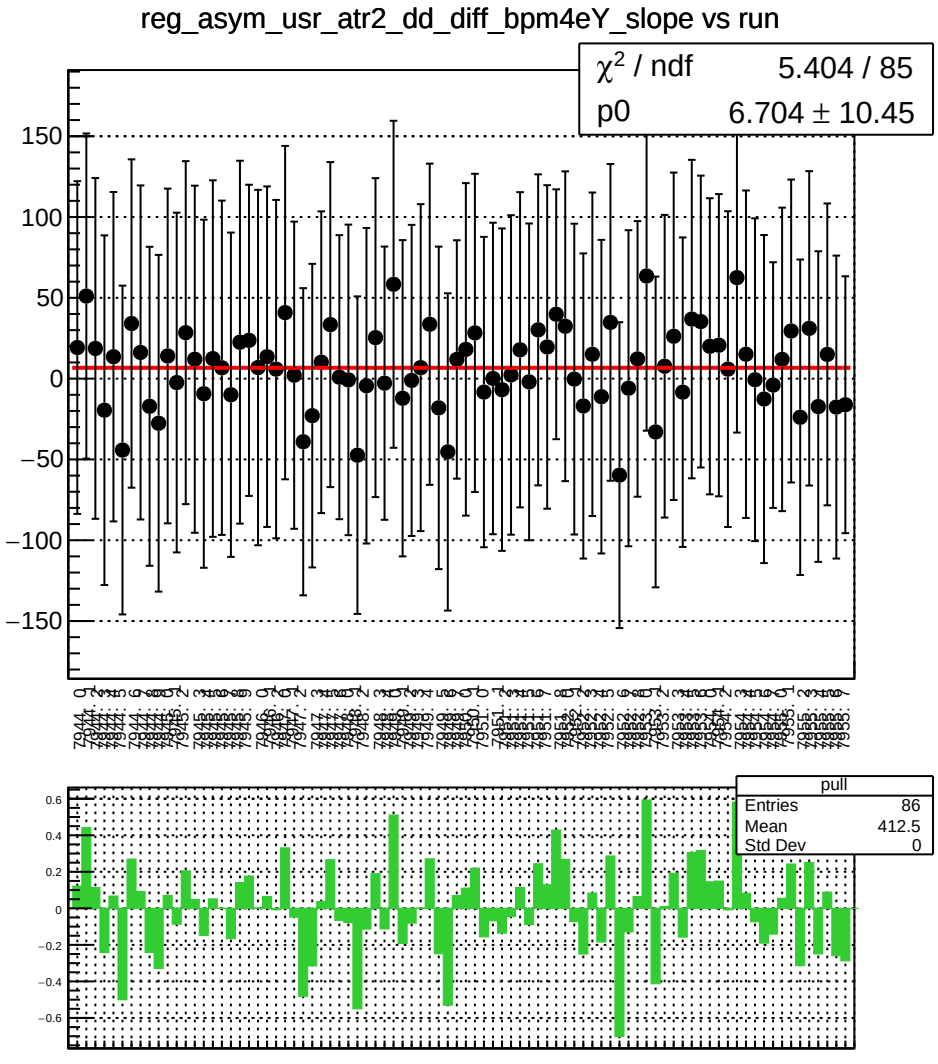

pull1D
Entries 86
Mean 0.0005918
Std Dev 0.2956

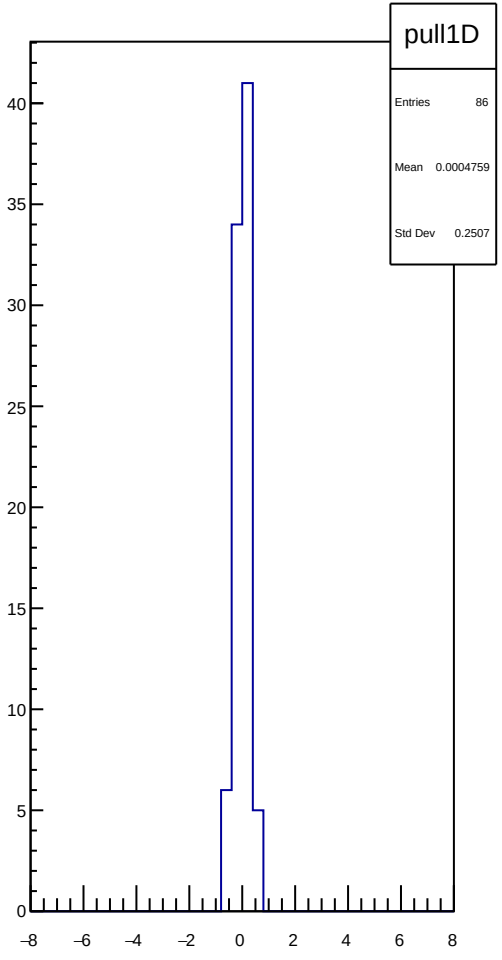

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.582 / 85
p0 −48.67 ± 9.093
pull
Entries 86
Mean −1017
Std Dev 0

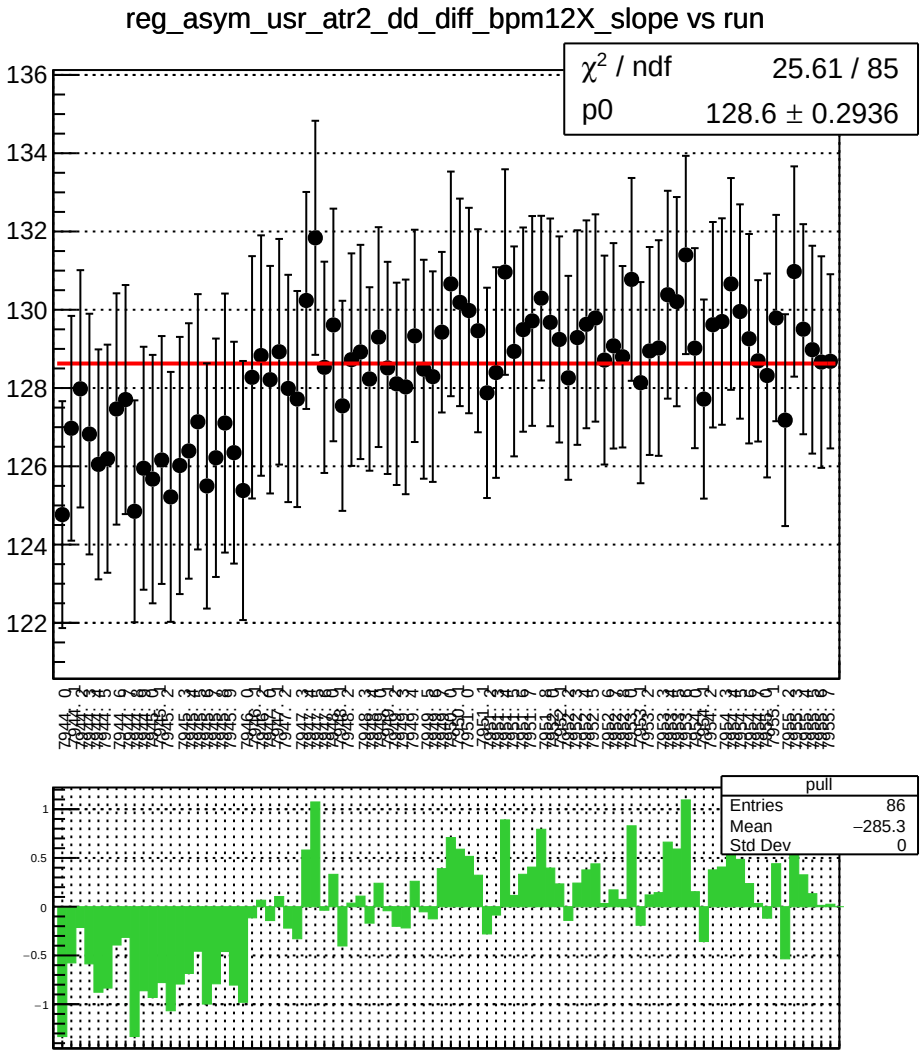

pull1D
Entries 86
Mean 0.0006106
Std Dev 0.2548

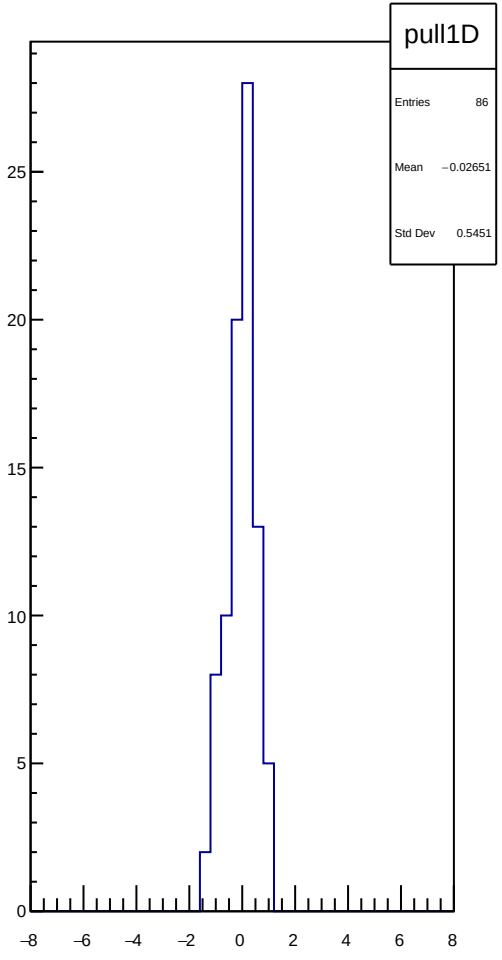

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.727 / 85
p0 −120.8 ± 7.821
pull
Entries 86
Mean 842.6
Std Dev 0

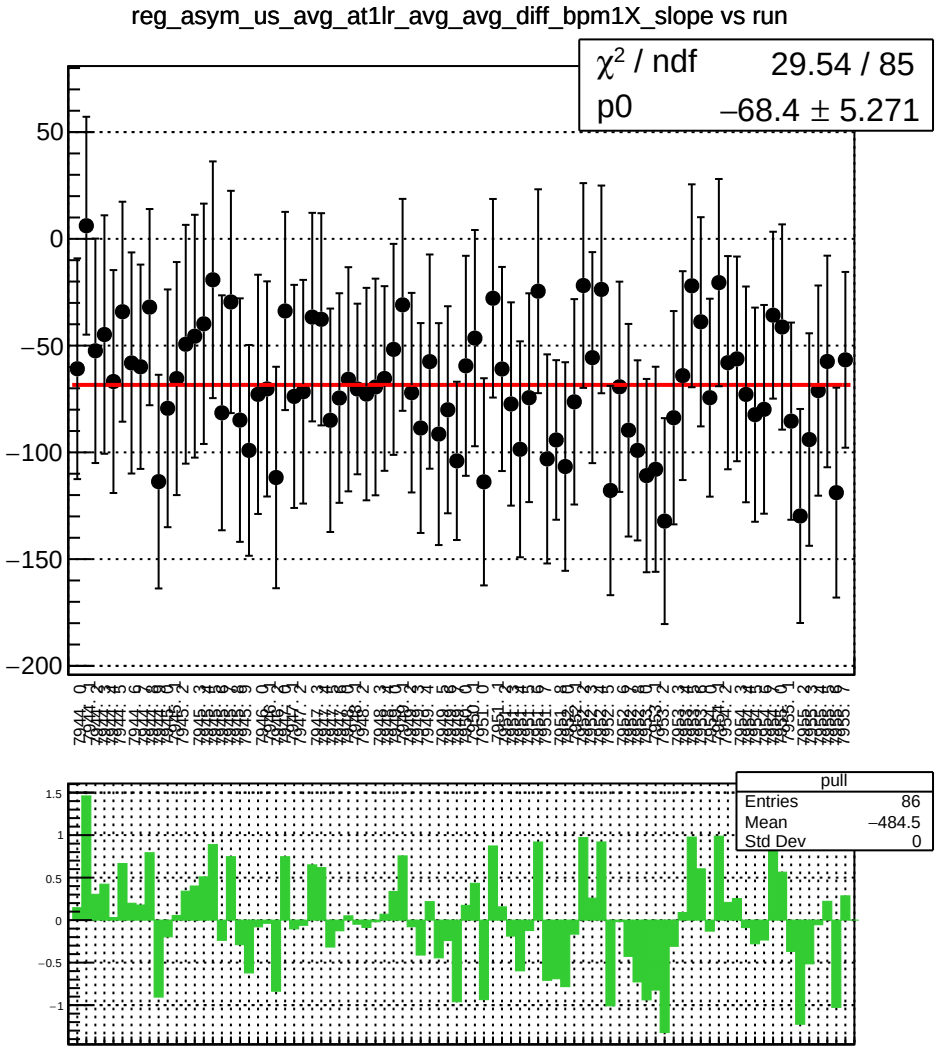

pull1D
Entries 86
Mean −0.002657
Std Dev 0.2997

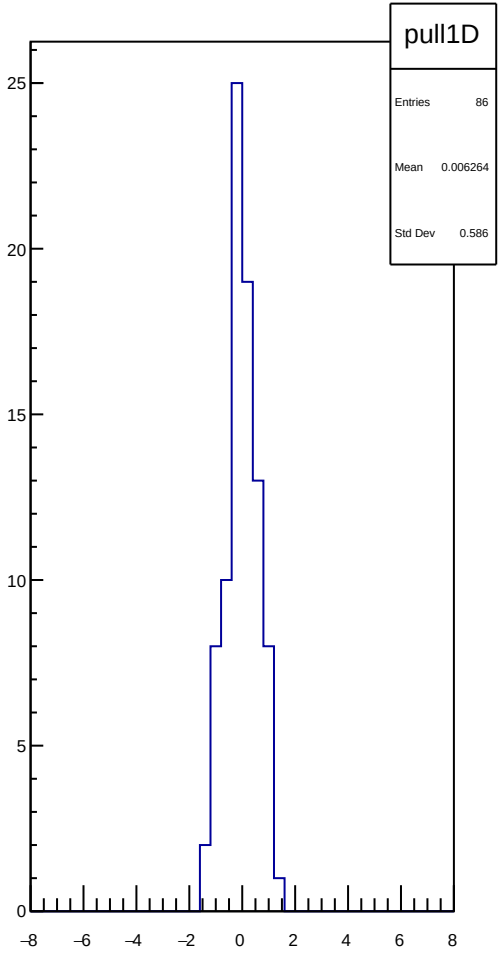

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.404 / 85
p0 6.704 ± 10.45
pull
Entries 86
Mean 412.5
Std Dev 0

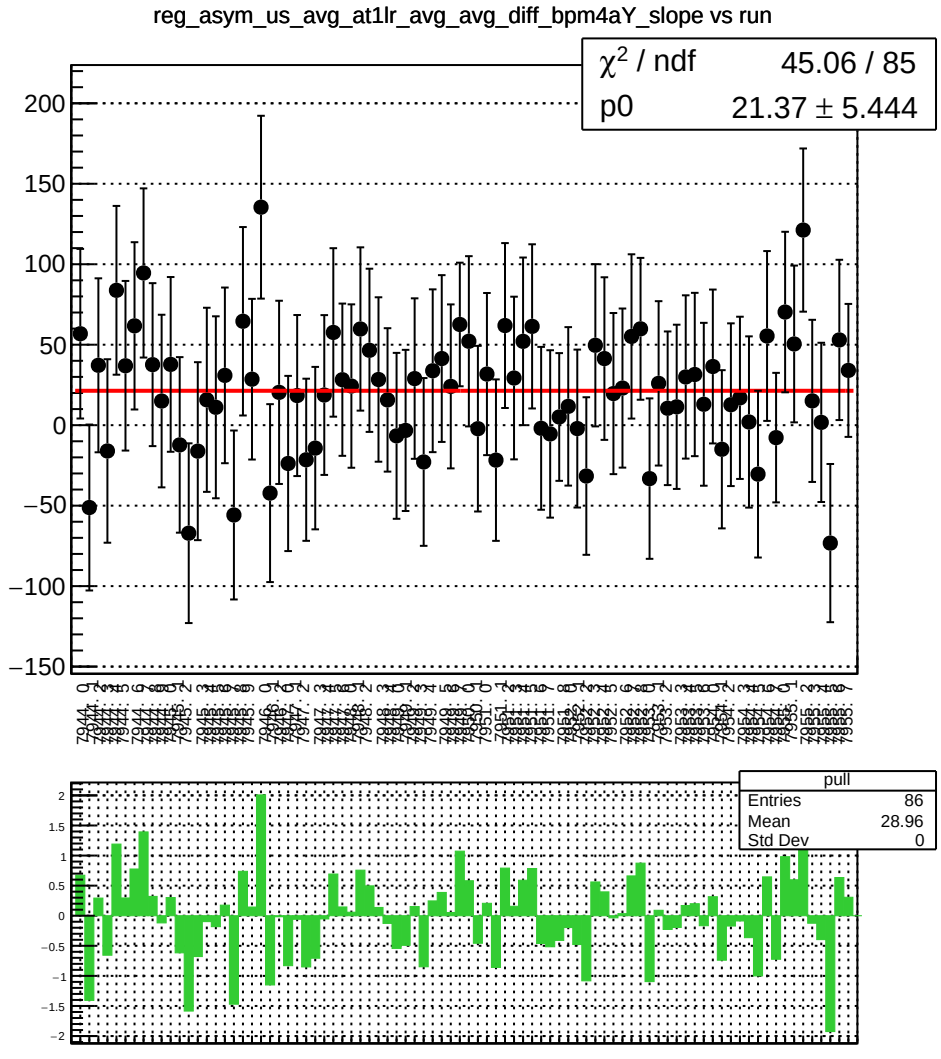

pull1D
Entries 86
Mean 0.0004759
Std Dev 0.2507

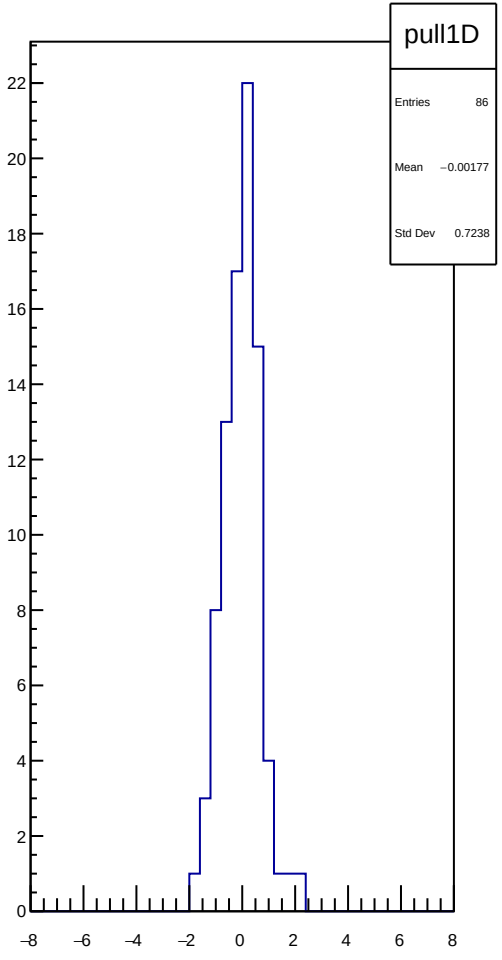

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 25.61 / 85
p0 128.6 ± 0.2936
pull
Entries 86
Mean −285.3
Std Dev 0

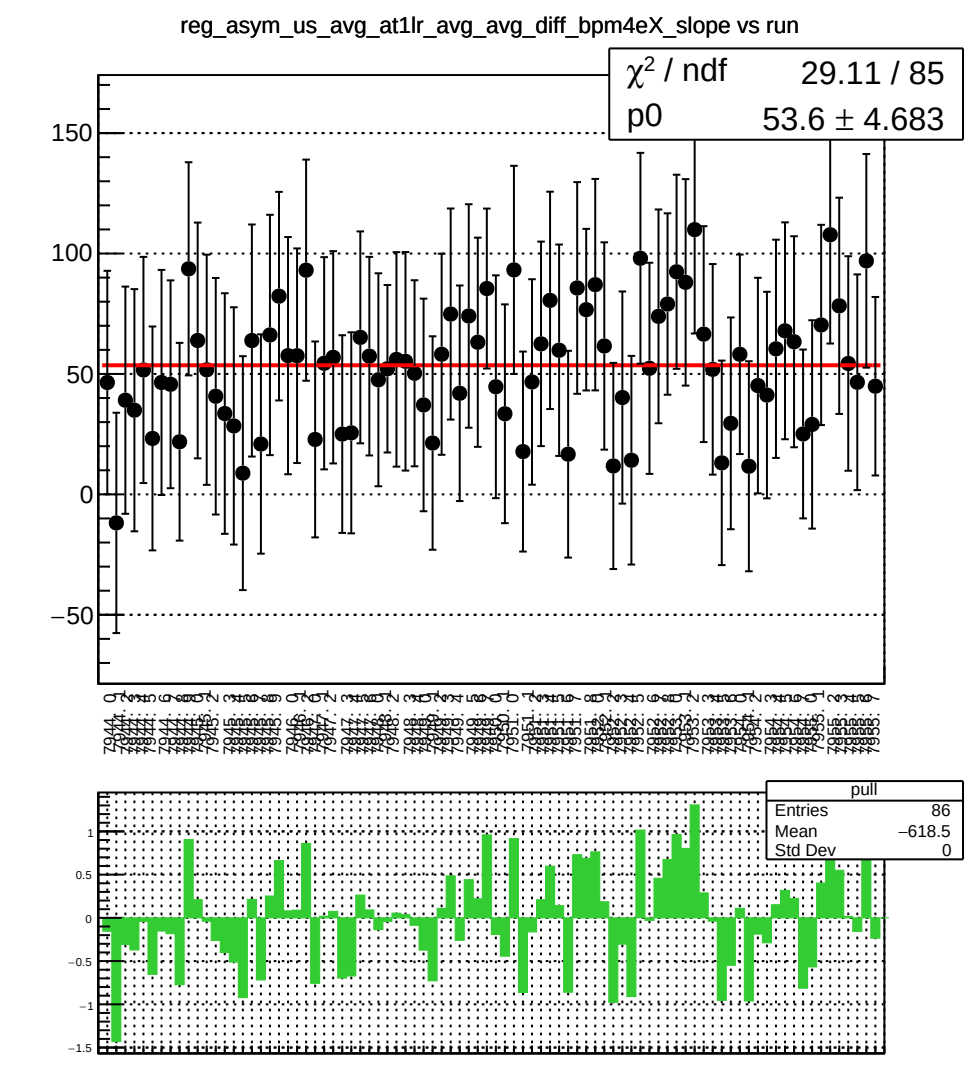

pull1D
Entries 86
Mean −0.02651
Std Dev 0.5451

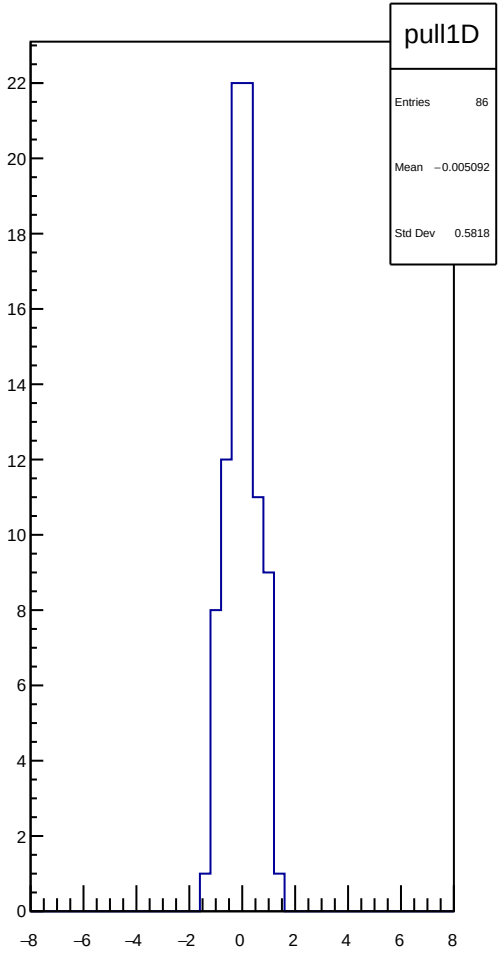

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 29.54 / 85
p0 −68.4 ± 5.271
pull
Entries 86
Mean −484.5
Std Dev 0

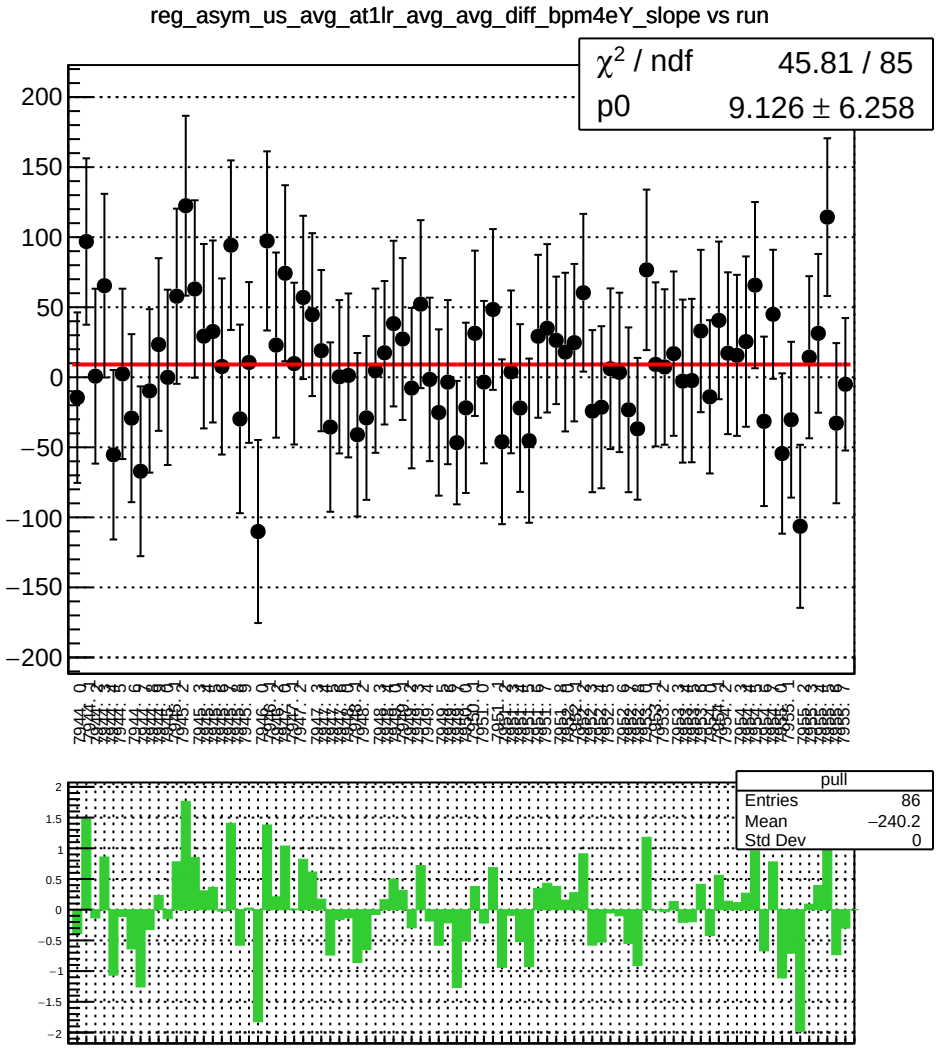

pull1D
Entries 86
Mean 0.006264
Std Dev 0.586

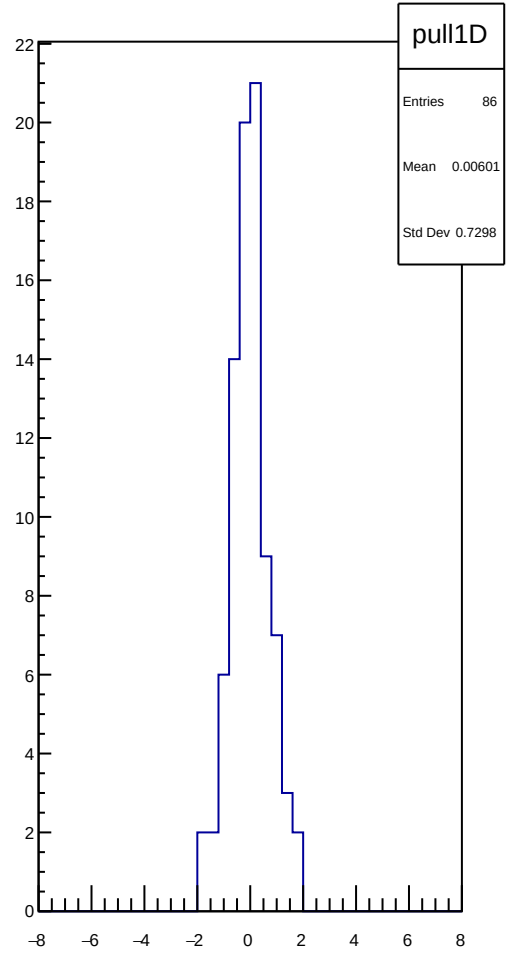

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.06 / 85
p0 21.37 ± 5.444
pull
Entries 86
Mean 28.96
Std Dev 0

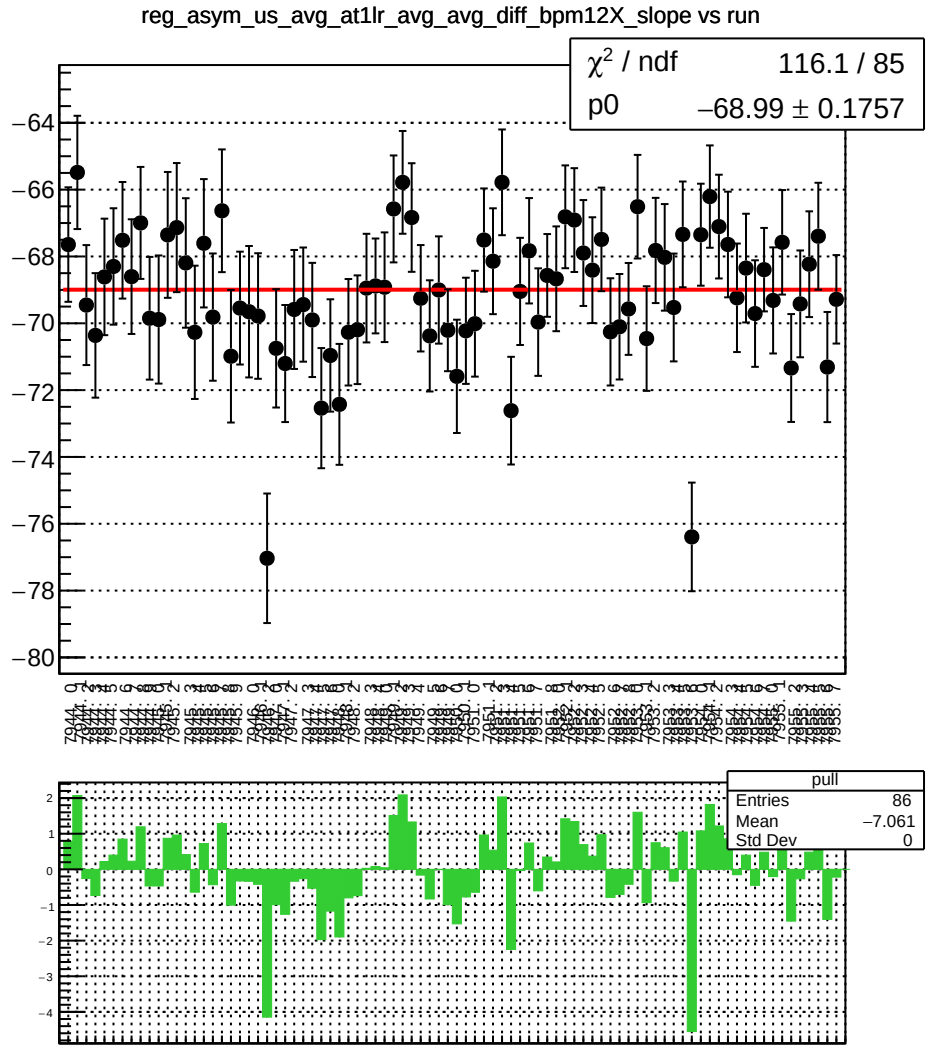

pull1D
Entries 86
Mean −0.00177
Std Dev 0.7238

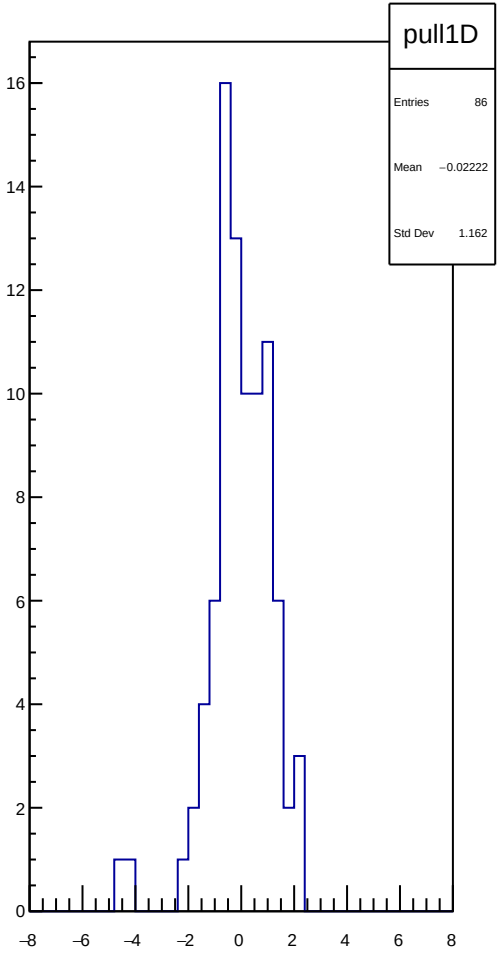

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.11 / 85
p0 53.6 ± 4.683
150
100
50
0
−50
pull
Entries 86
Mean −618.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

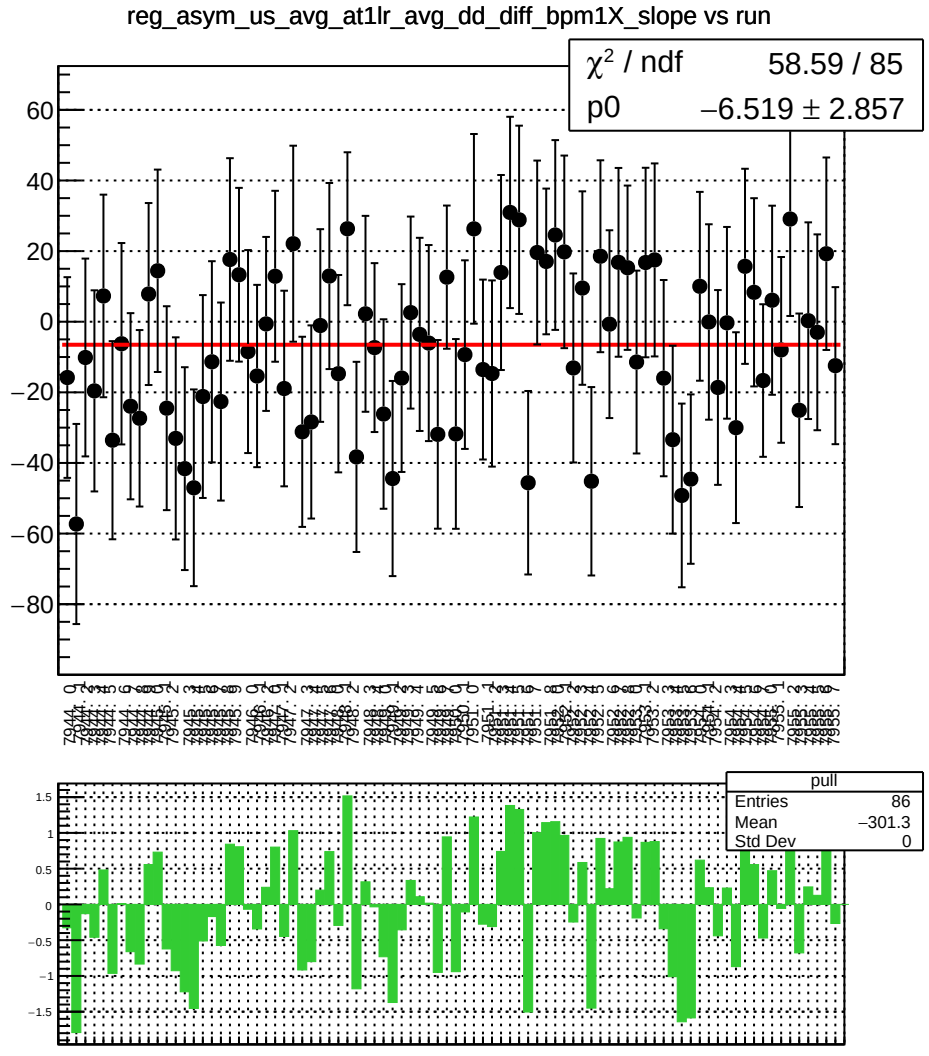

pull1D
Entries 86
Mean −0.005092
Std Dev 0.5818
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

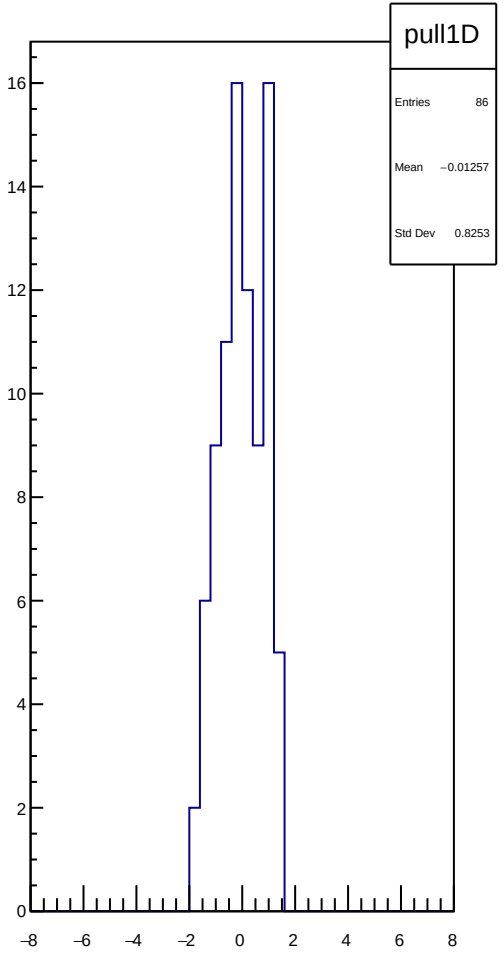

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.81 / 85
p0 9.126 ± 6.258
pull
Entries 86
Mean −240.2
Std Dev 0

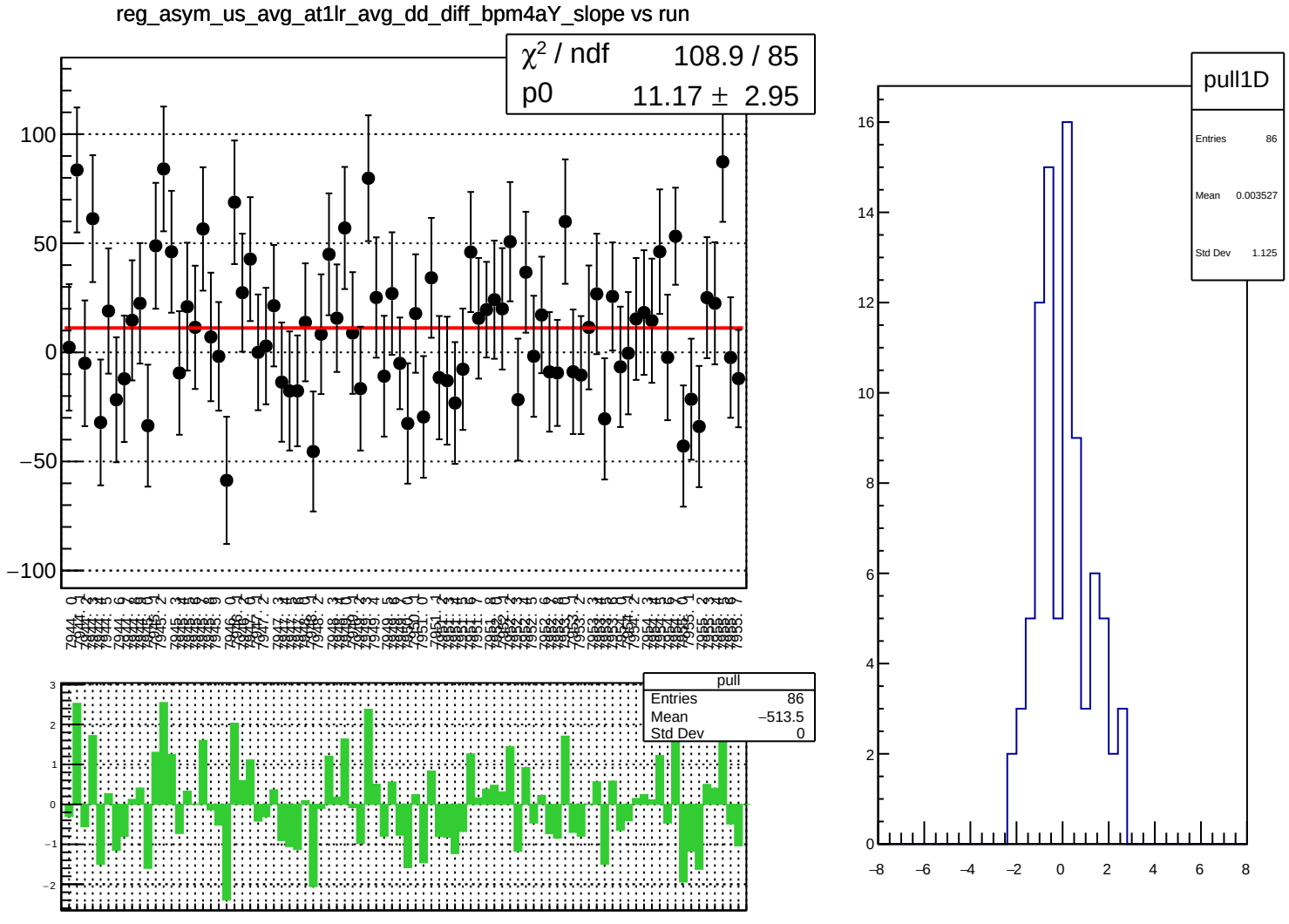

pull1D
Entries 86
Mean 0.00601
Std Dev 0.7298

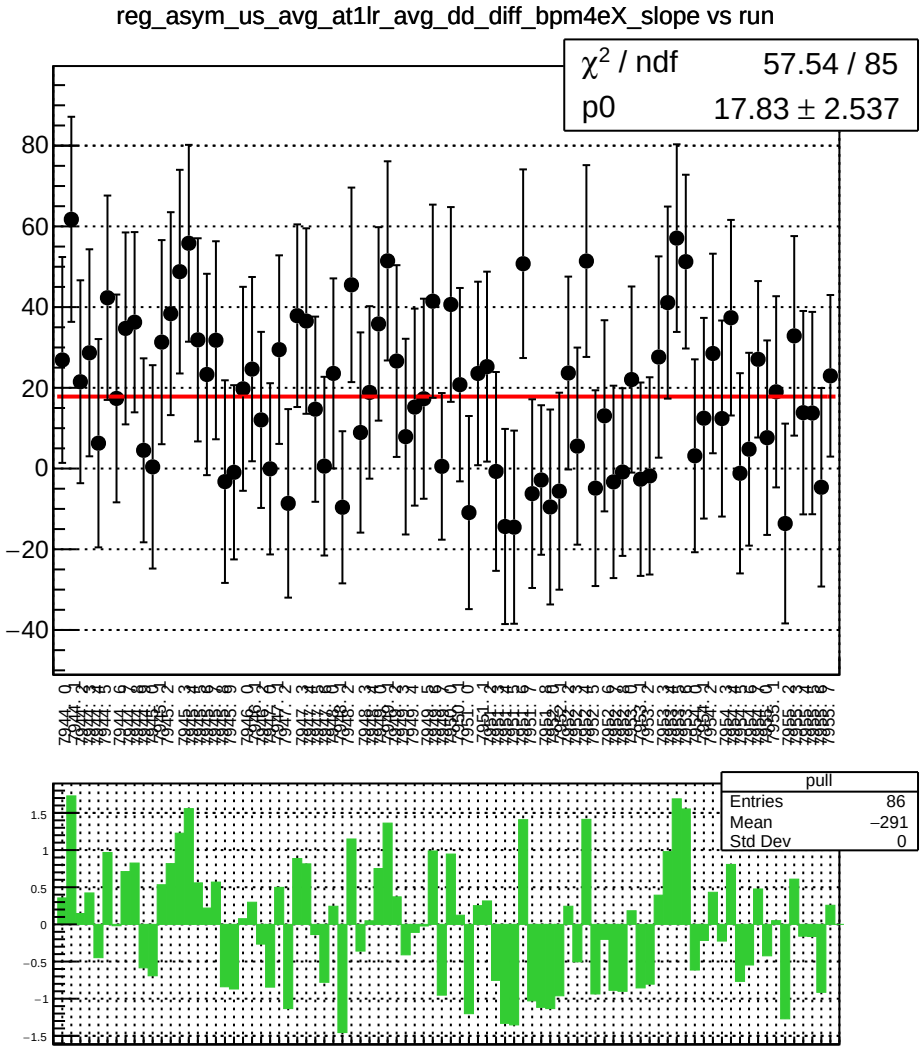

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 116.1 / 85
p0 −68.99 ± 0.1757
pull
Entries 86
Mean −7.061
Std Dev 0

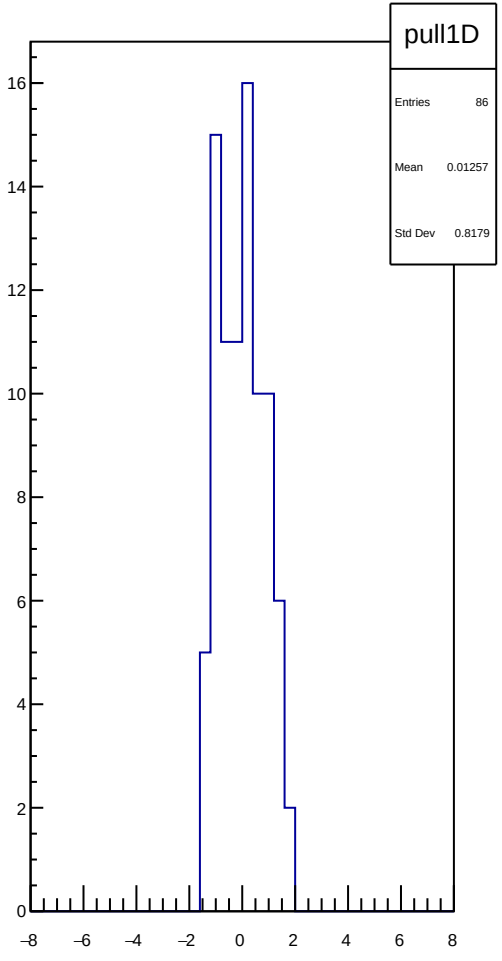

pull1D
Entries 86
Mean −0.02222
Std Dev 1.162

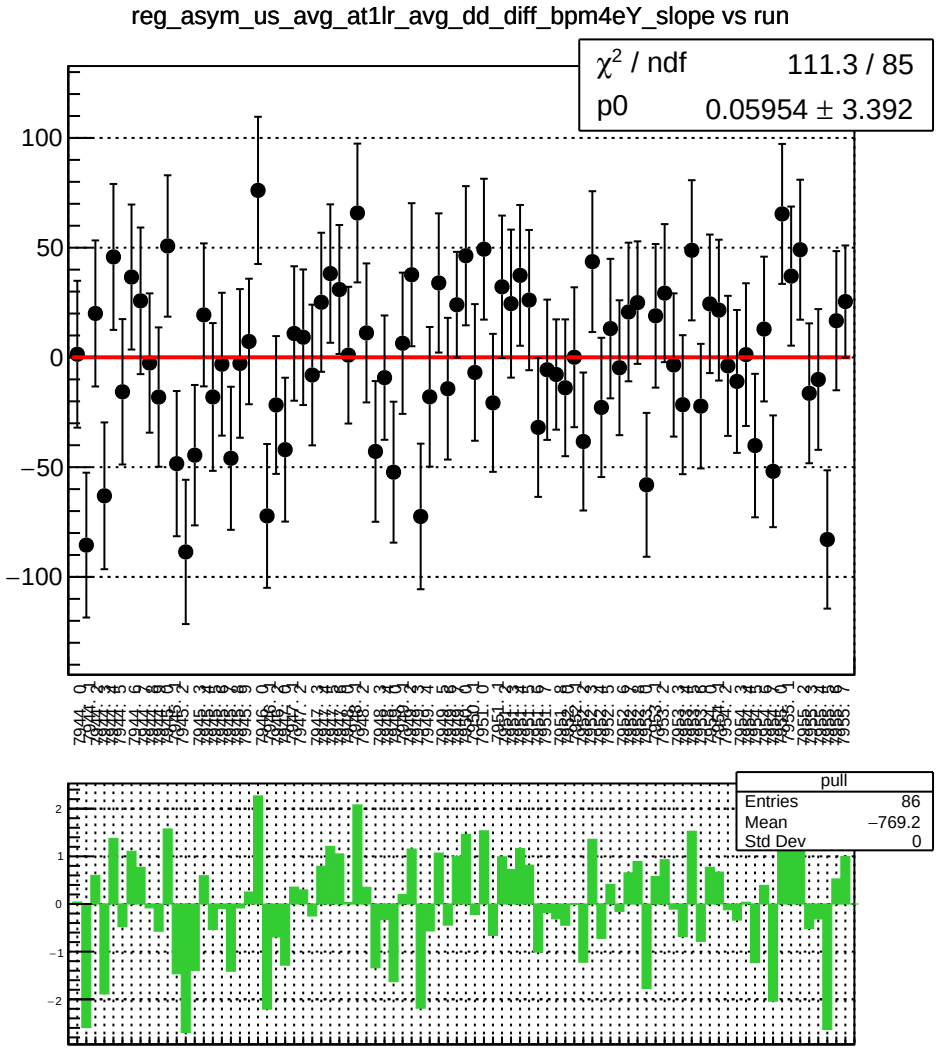

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 58.59 / 85
p0 −6.519 ± 2.857
pull
Entries 86
Mean −301.3
Std Dev 0

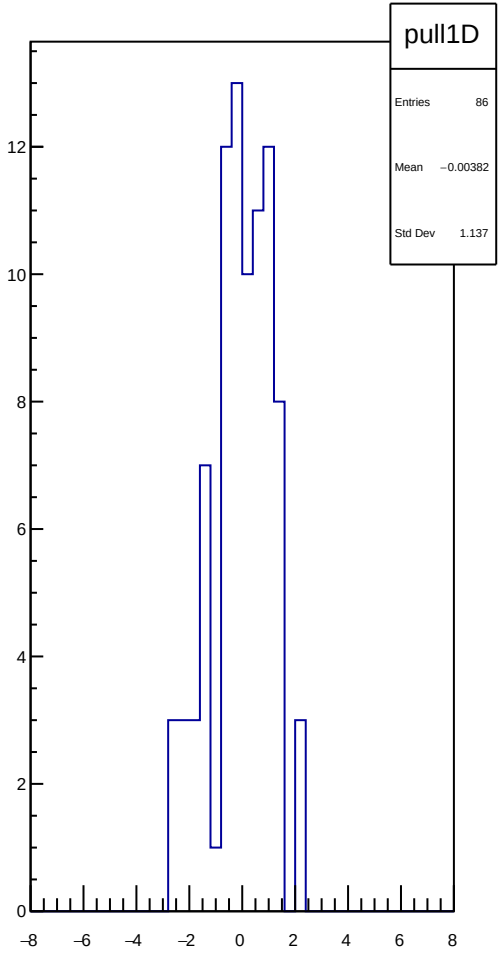

pull1D
Entries 86
Mean −0.01257
Std Dev 0.8253

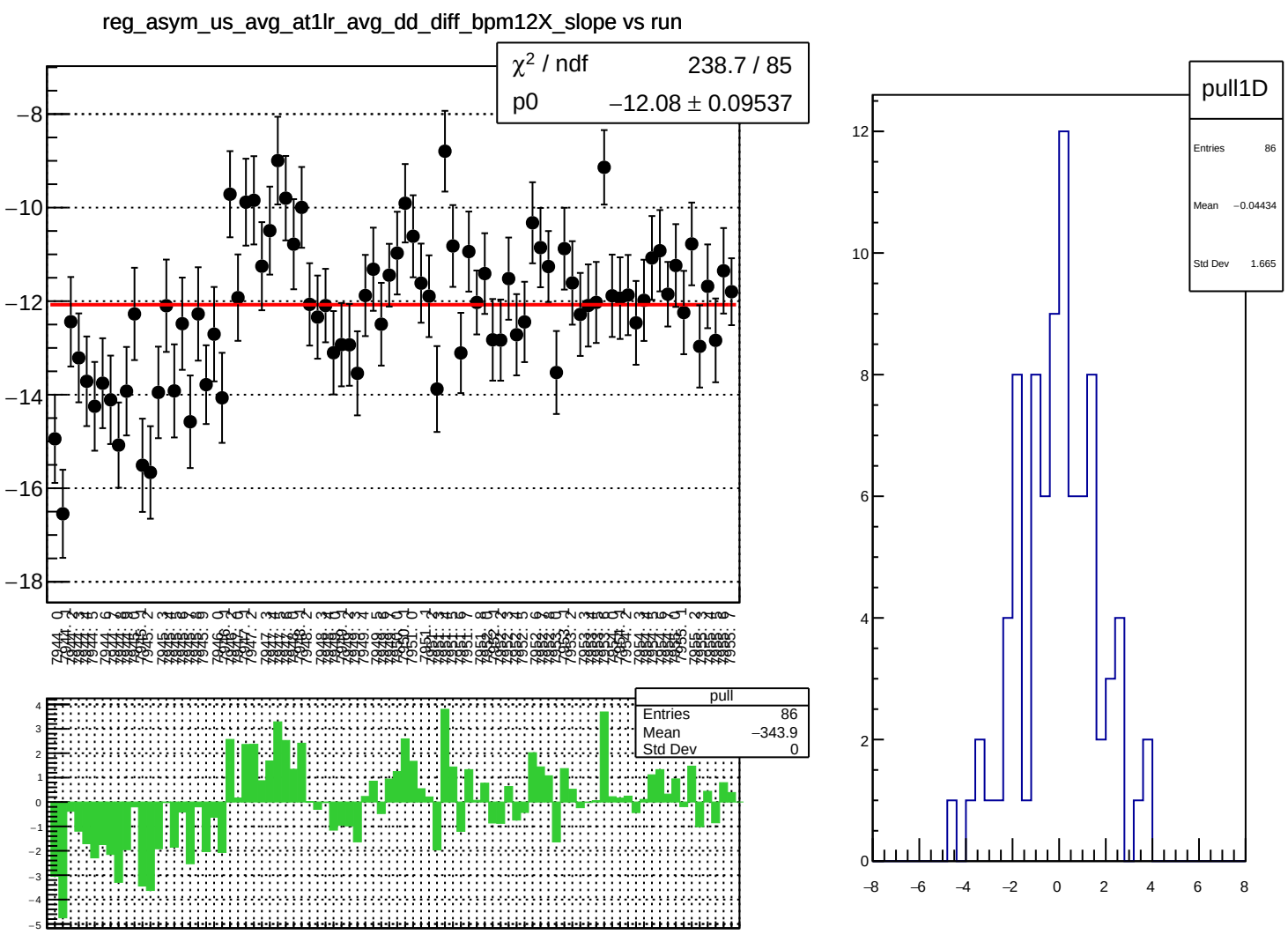

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 108.9 / 85
p0 11.17 ± 2.95
pull
Entries 86
Mean −513.5
Std Dev 0
pull1D
Entries 86
Mean 0.003527
Std Dev 1.125

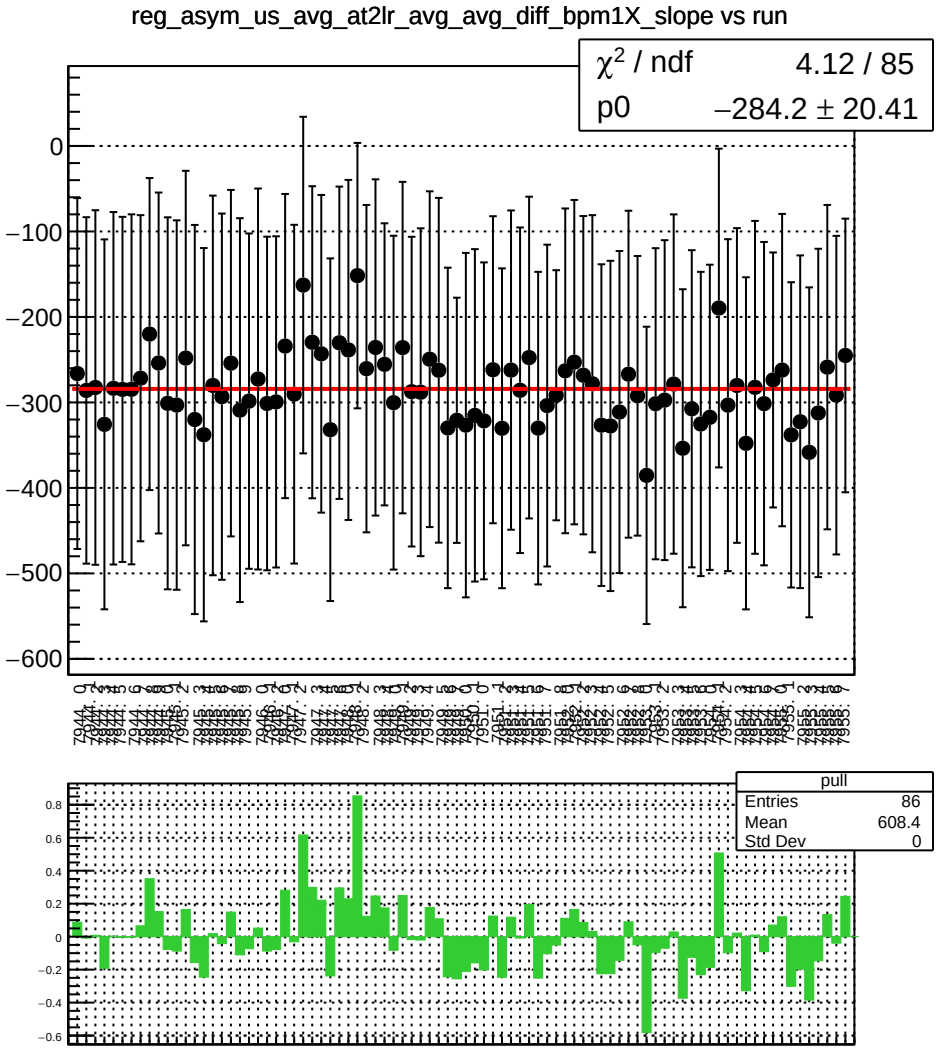

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.54 / 85
p0 17.83 ± 2.537
pull
Entries 86
Mean −291
Std Dev 0

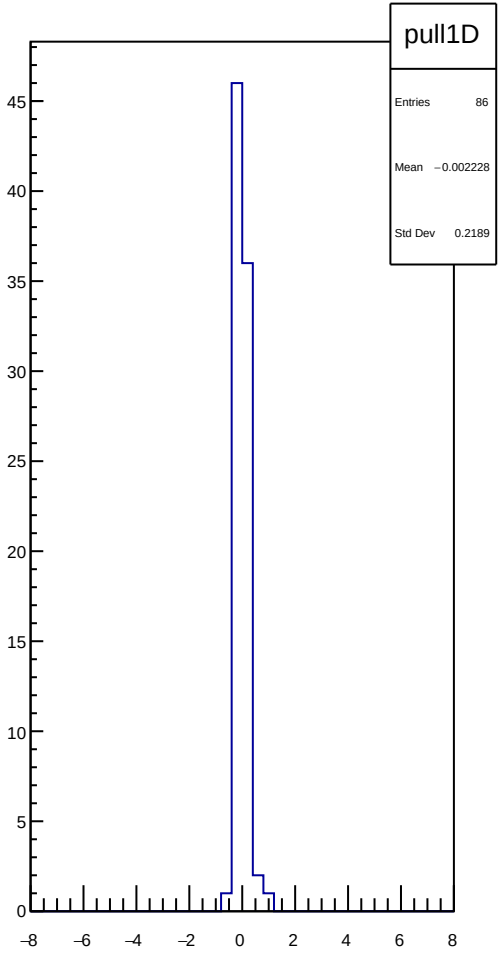

pull1D
Entries 86
Mean 0.01257
Std Dev 0.8179

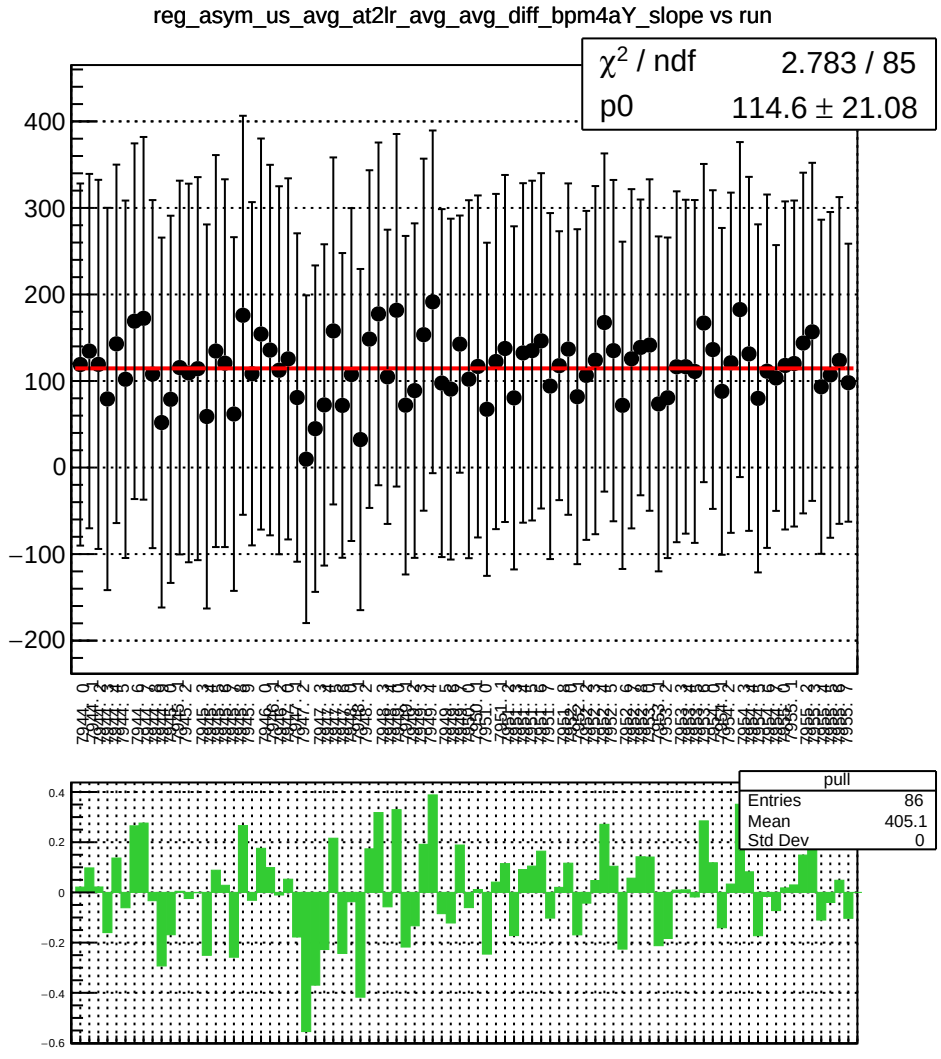

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 111.3 / 85
p0 0.05954 ± 3.392
100
50
0
−50
−100
pull
Entries 86
Mean −769.2
Std Dev 0
2
1
0
−1
−2

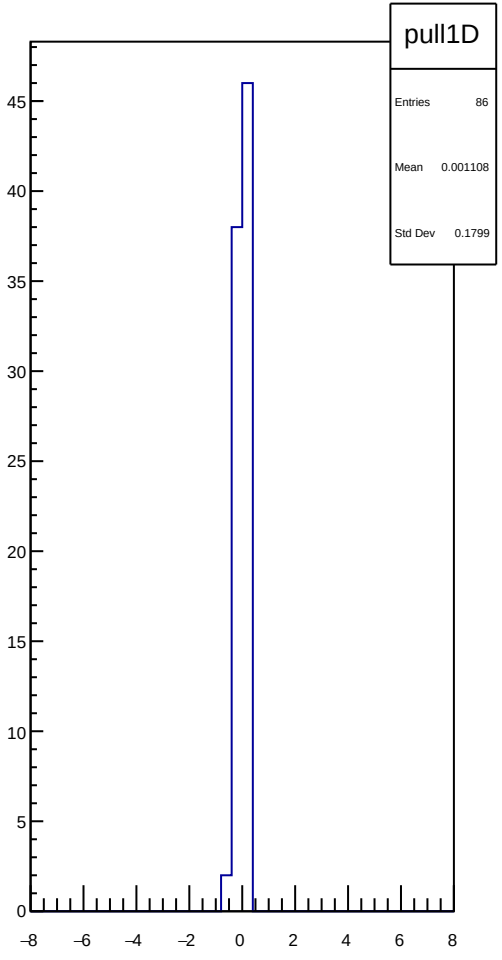

pull1D
Entries 86
Mean −0.00382
Std Dev 1.137
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

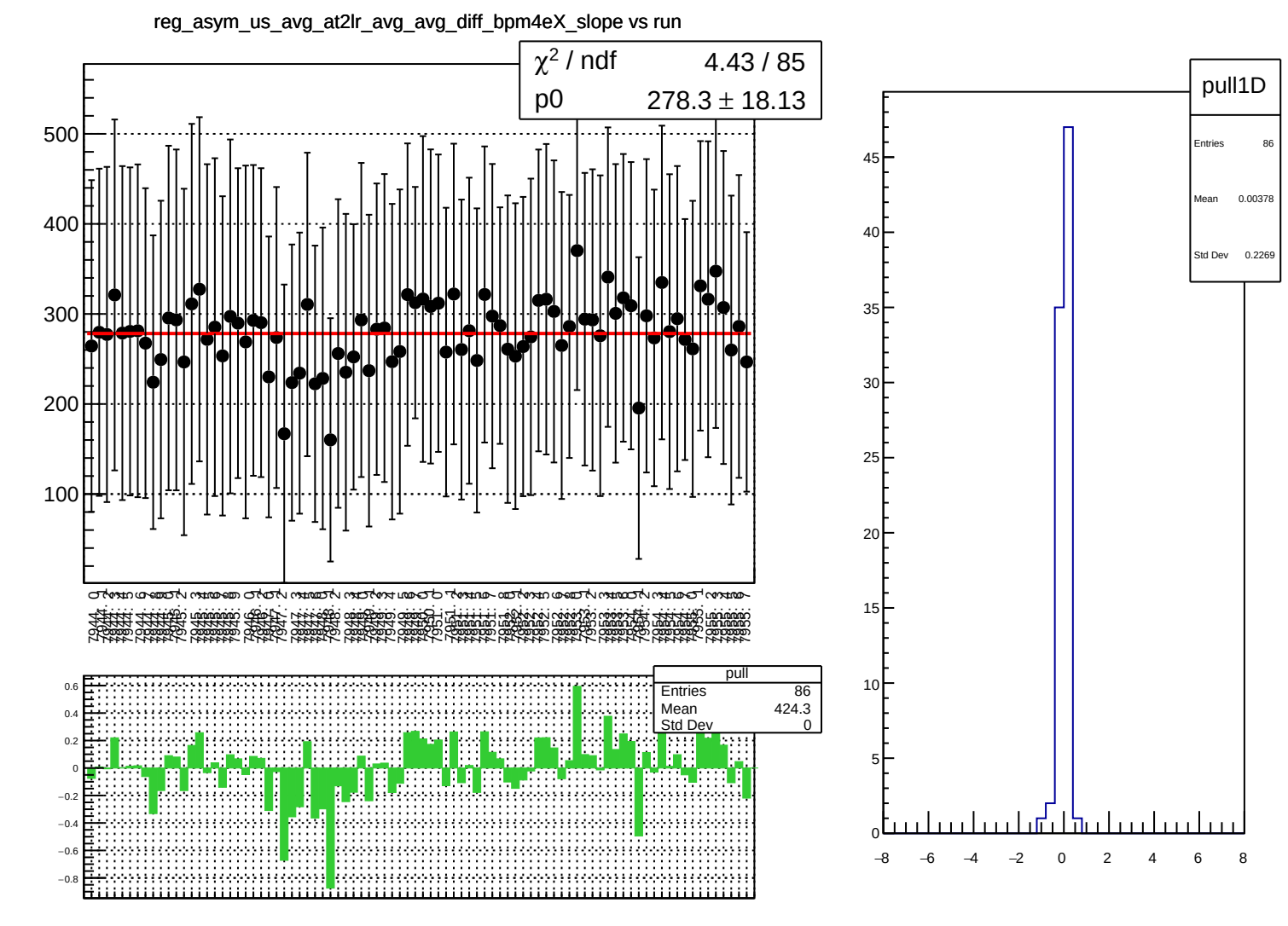

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 238.7 / 85
p0 −12.08 ± 0.09537
pull
Entries 86
Mean −343.9
Std Dev 0
pull1D
Entries 86
Mean −0.04434
Std Dev 1.665

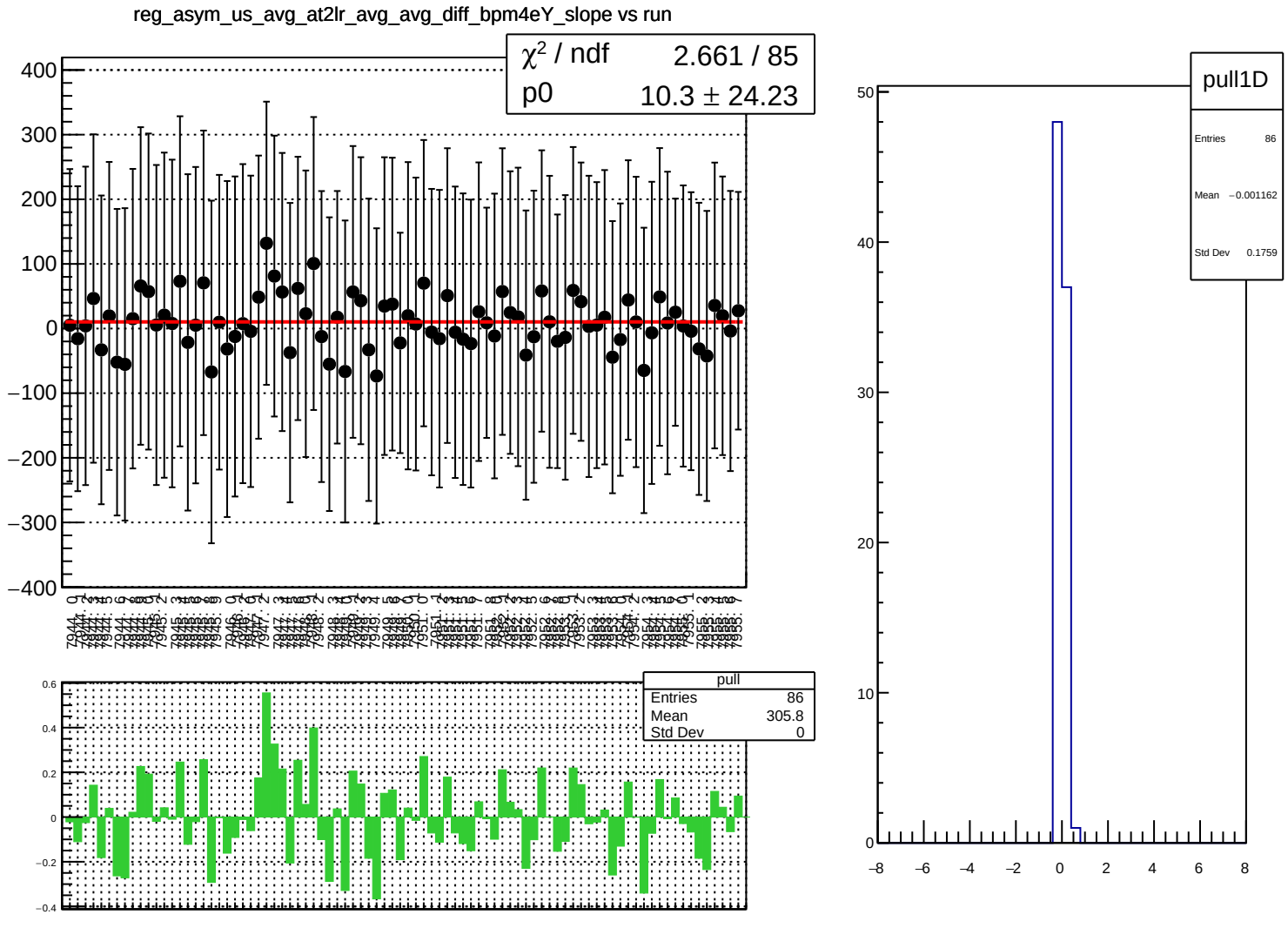

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.12 / 85
p0 −284.2 ± 20.41
pull
Entries 86
Mean 608.4
Std Dev 0

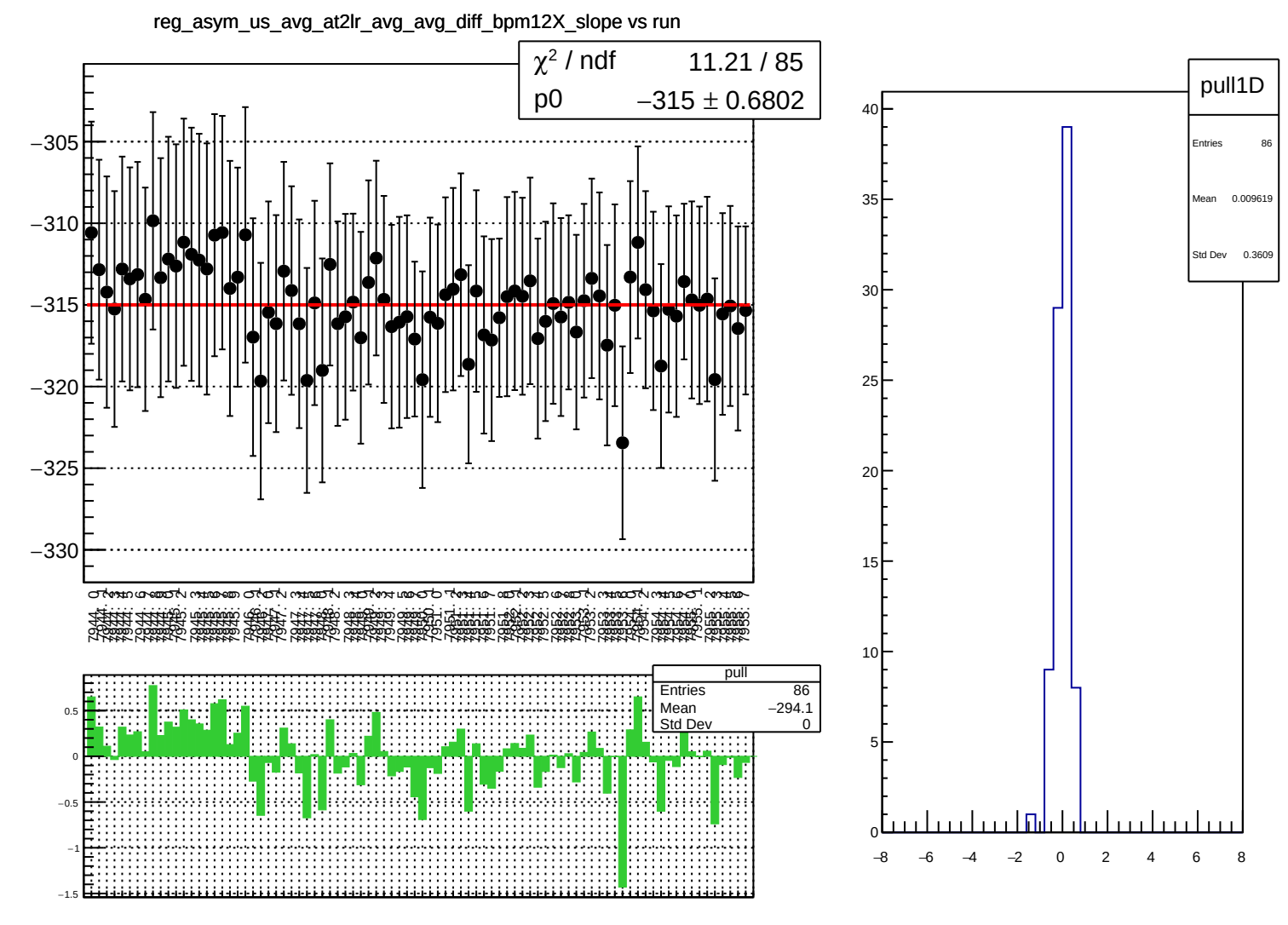

pull1D
Entries 86
Mean −0.002228
Std Dev 0.2189

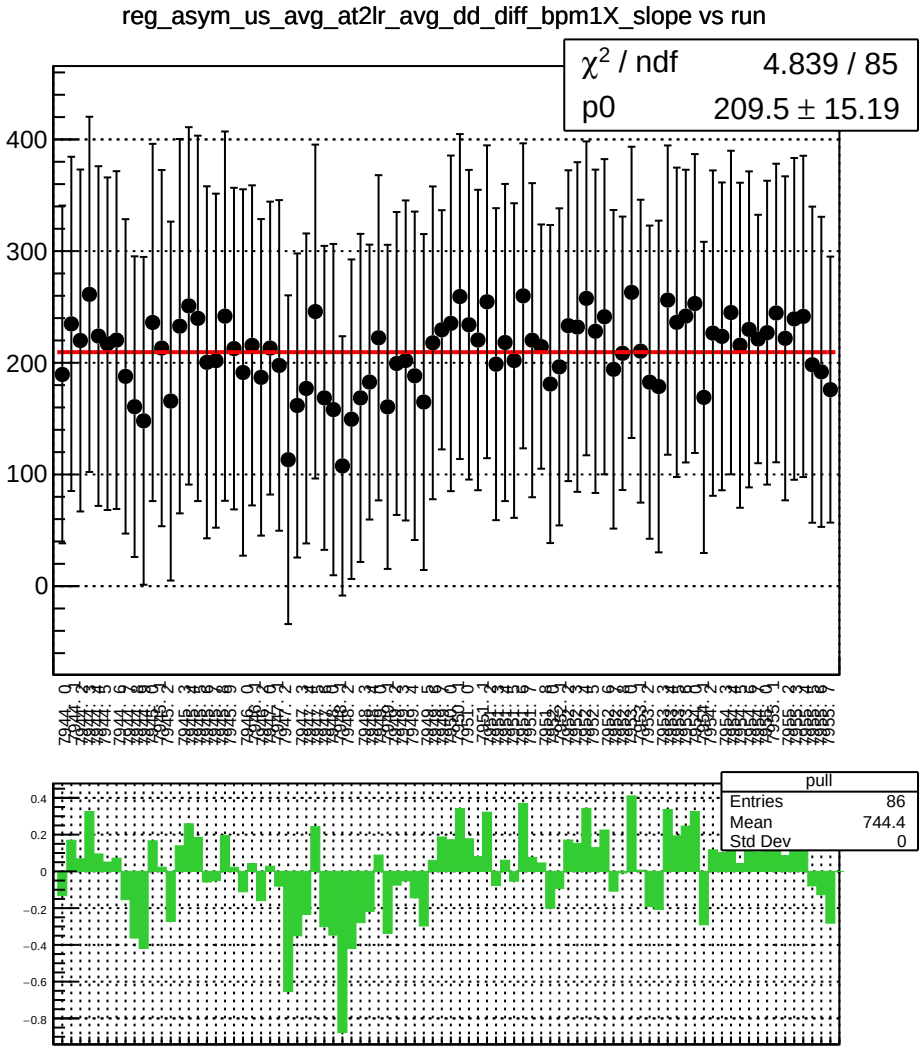

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.783 / 85
p0 114.6 ± 21.08
pull
Entries 86
Mean 405.1
Std Dev 0

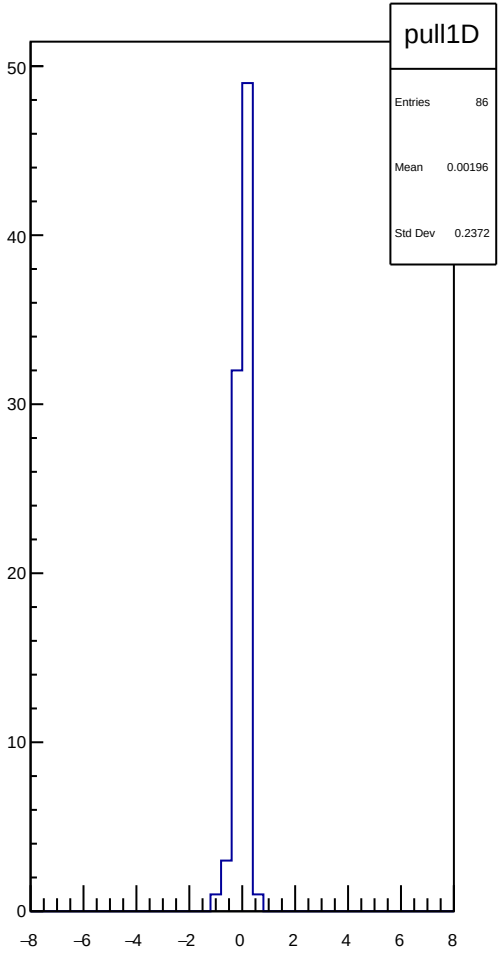

pull1D
Entries 86
Mean 0.001108
Std Dev 0.1799

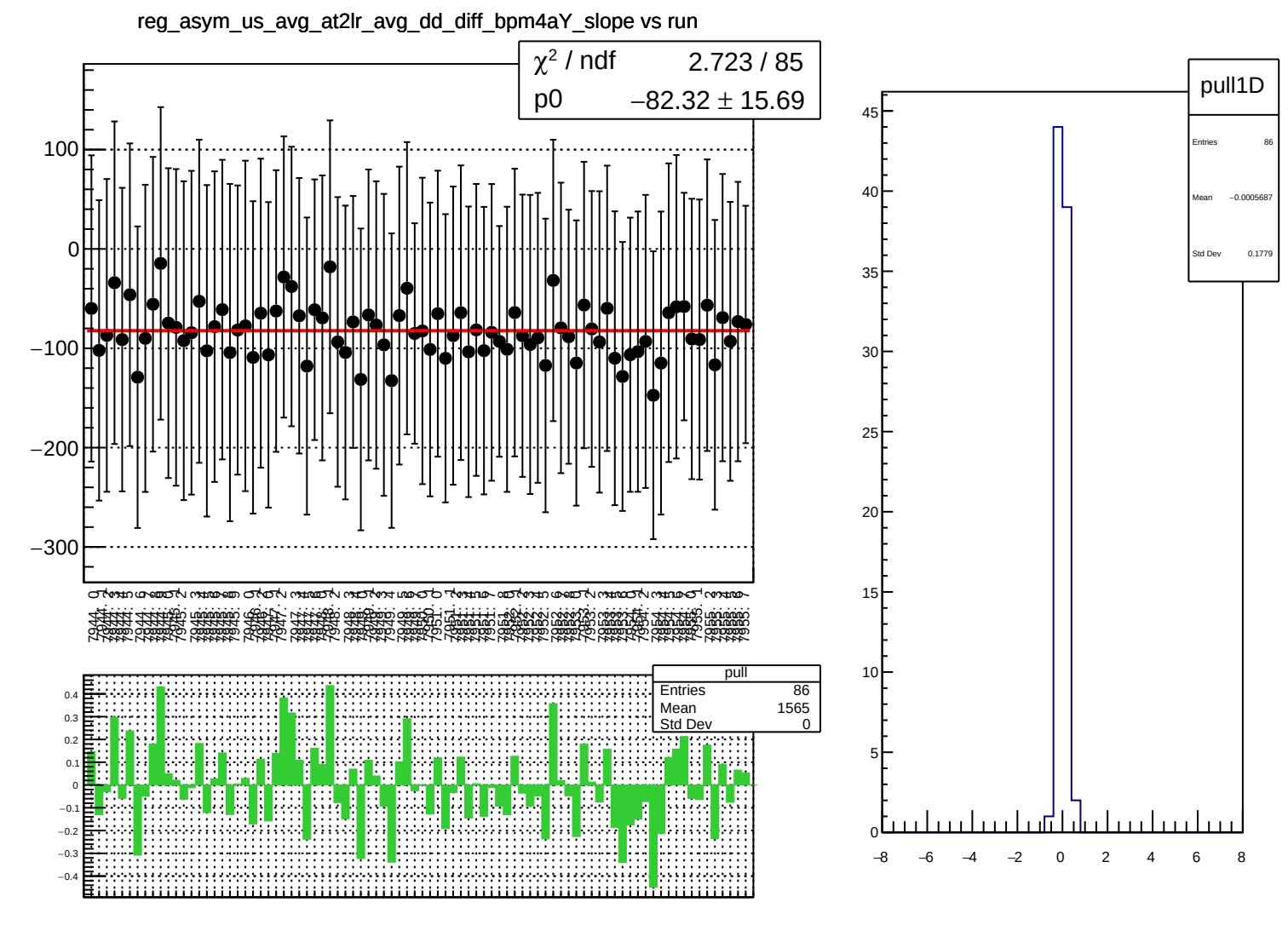

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.43 / 85
p0 278.3 ± 18.13
pull
Entries 86
Mean 424.3
Std Dev 0
pull1D
Entries 86
Mean 0.00378
Std Dev 0.2269

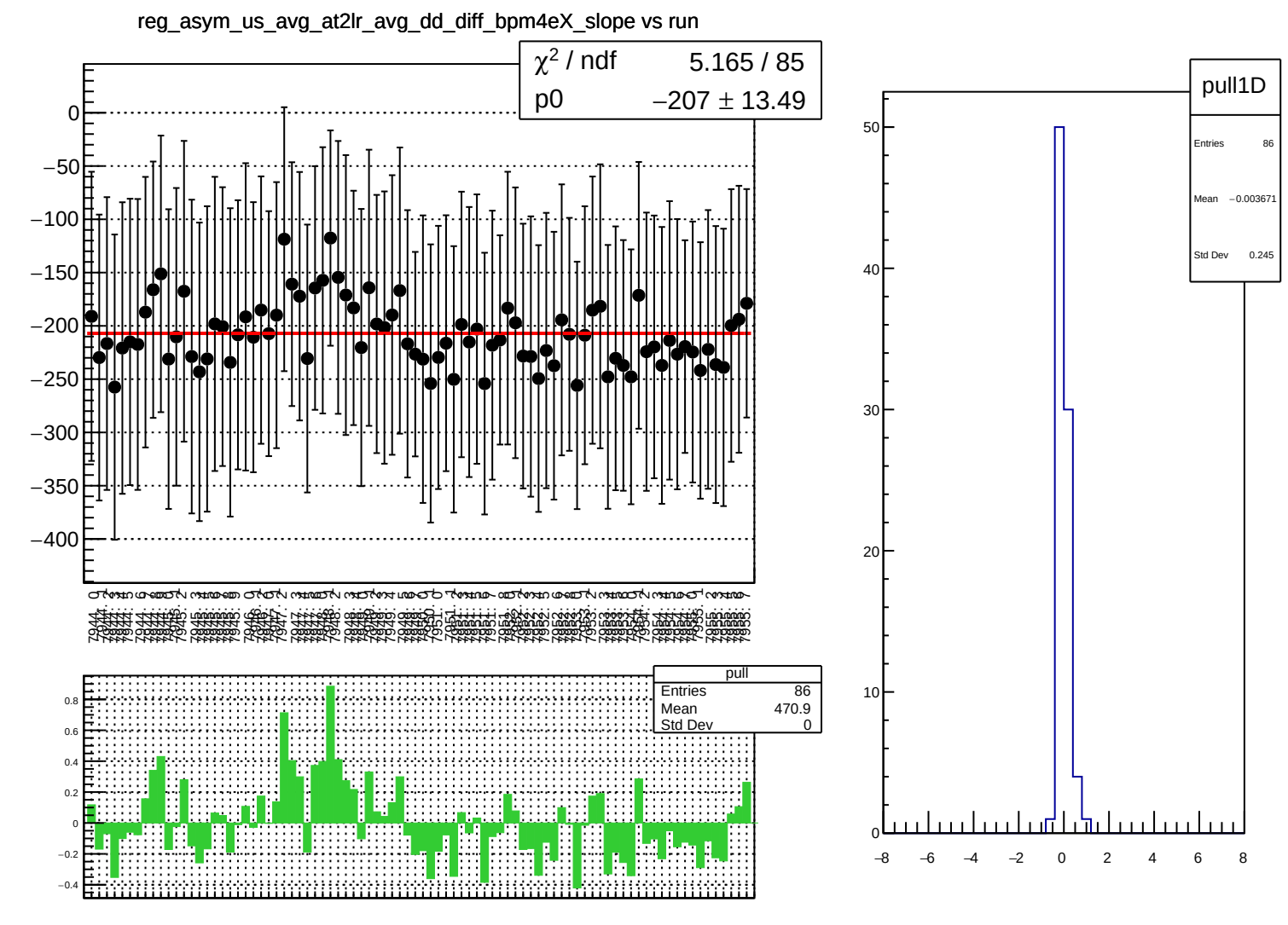

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.661 / 85
p0 10.3 ± 24.23
pull
Entries 86
Mean 305.8
Std Dev 0
pull1D
Entries 86
Mean −0.001162
Std Dev 0.1759

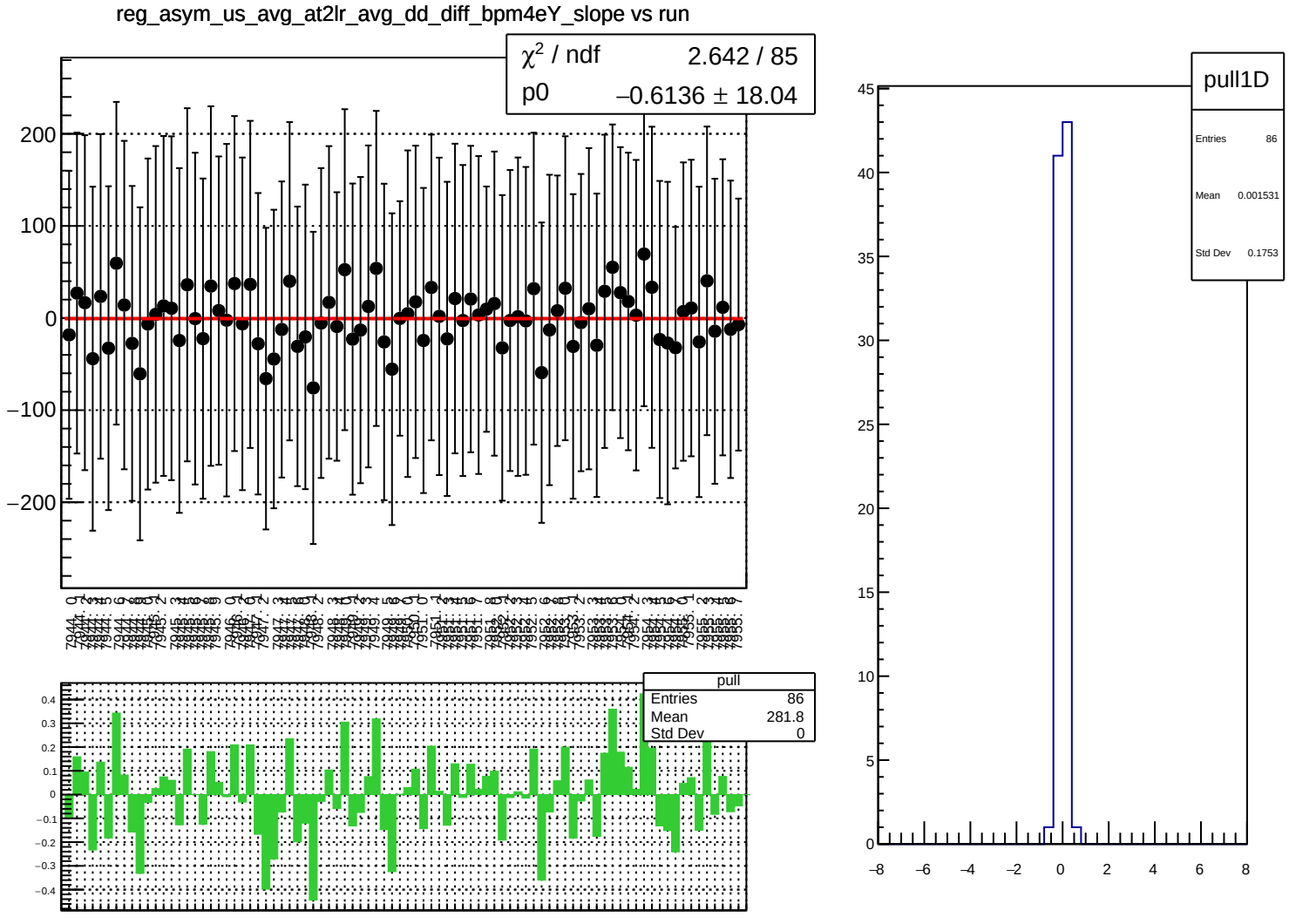

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 11.21 / 85
p0 −315 ± 0.6802
−305
−310
−315
−320
−325
−330
pull
Entries 86
Mean −294.1
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.009619
Std Dev 0.3609
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

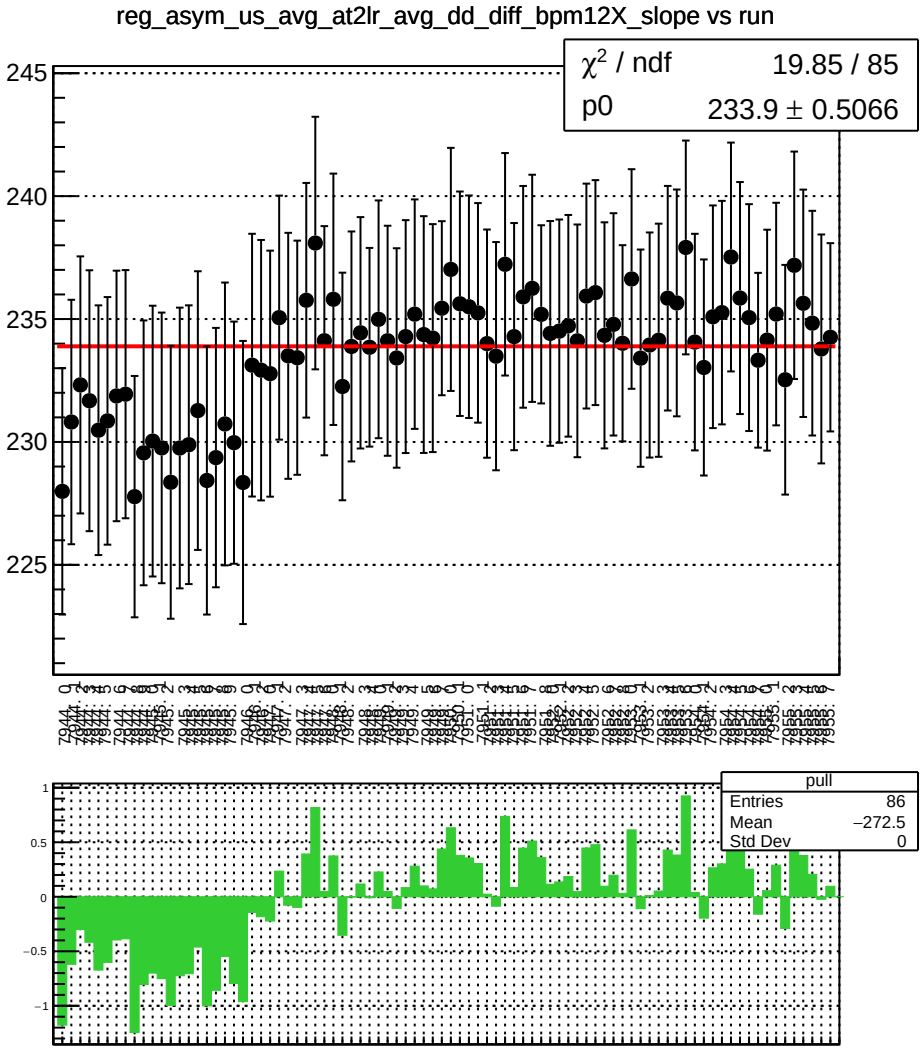

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 4.839 / 85
p0 209.5 ± 15.19
pull
Entries 86
Mean 744.4
Std Dev 0

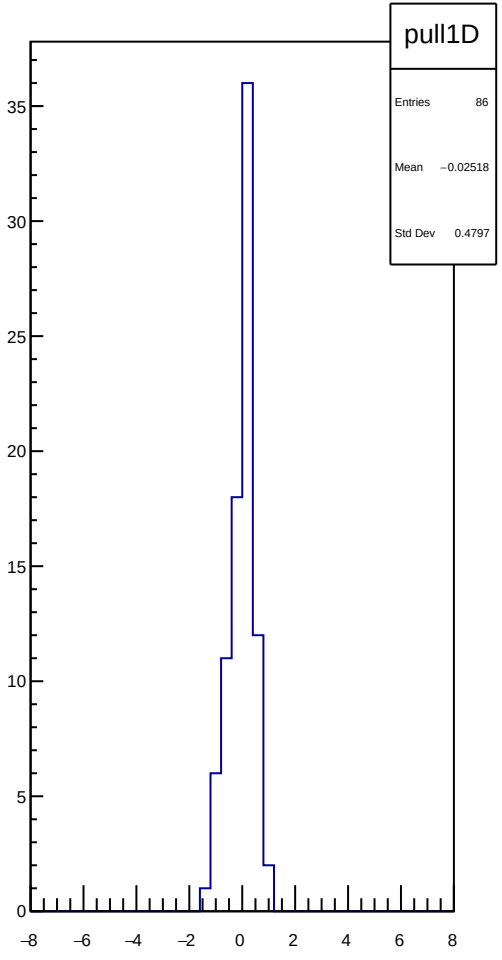

pull1D
Entries 86
Mean 0.00196
Std Dev 0.2372

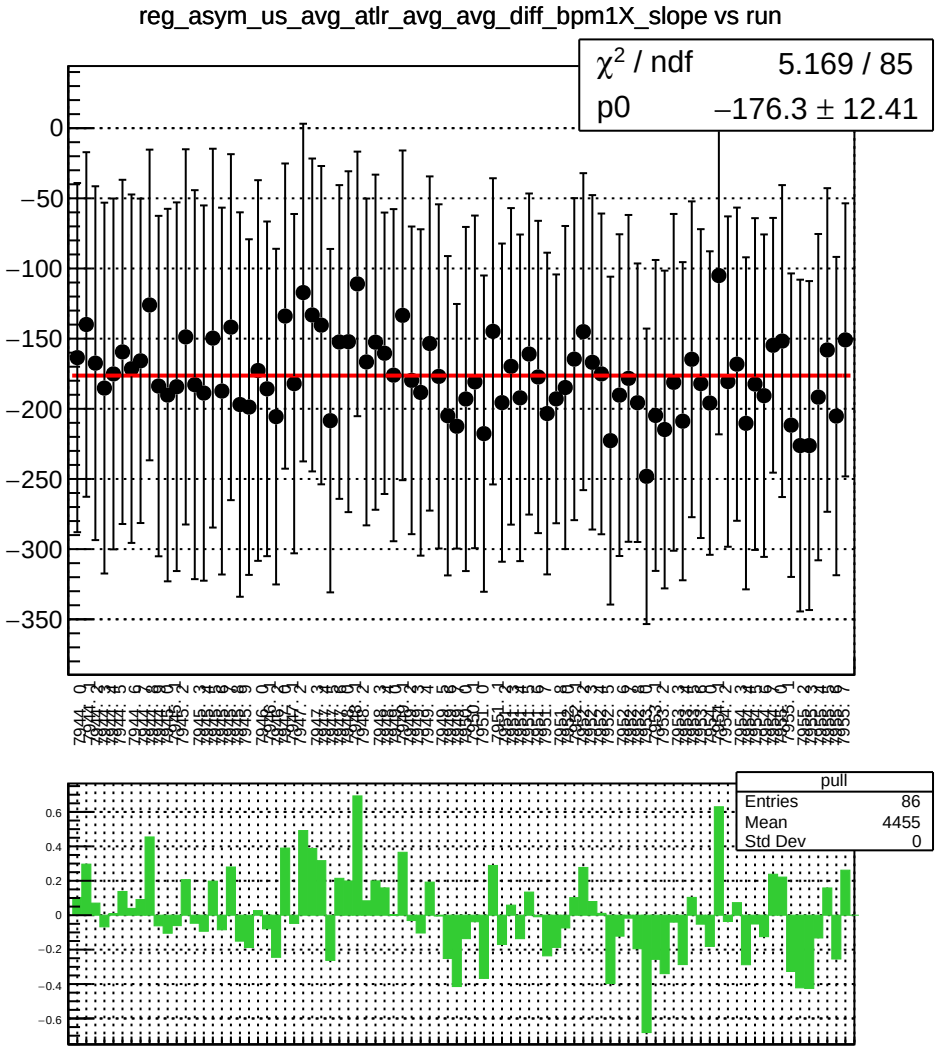

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.723 / 85
p0 −82.32 ± 15.69
pull
Entries 86
Mean 1565
Std Dev 0
pull1D
Entries 86
Mean −0.0005687
Std Dev 0.1779

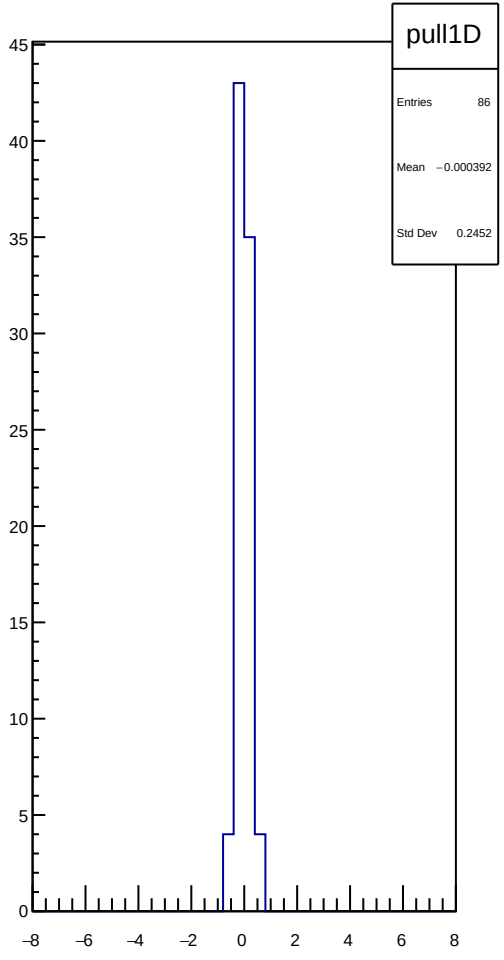

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.165 / 85
p0 −207 ± 13.49
pull
Entries 86
Mean 470.9
Std Dev 0
pull1D
Entries 86
Mean −0.003671
Std Dev 0.245

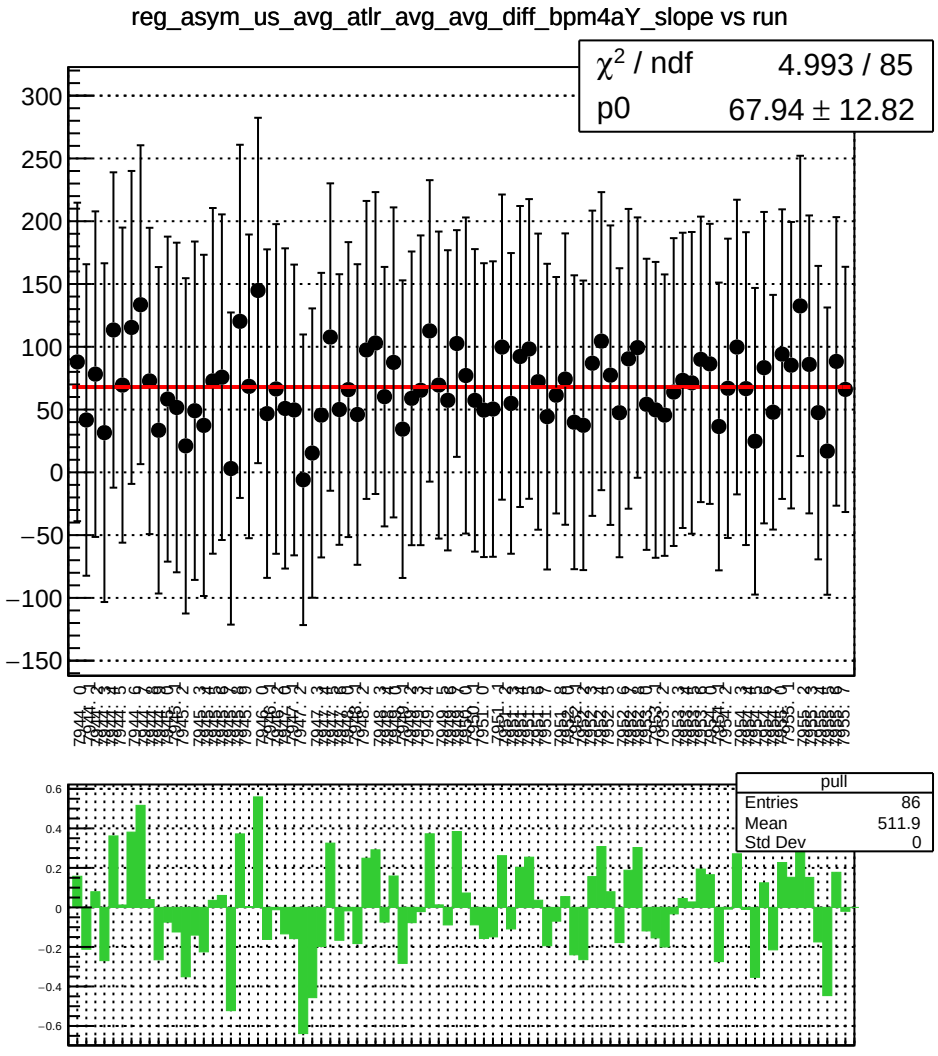

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.642 / 85
p0 −0.6136 ± 18.04
200
100
0
−100
−200
pull
Entries 86
Mean 281.8
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 86
Mean 0.001531
Std Dev 0.1753
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

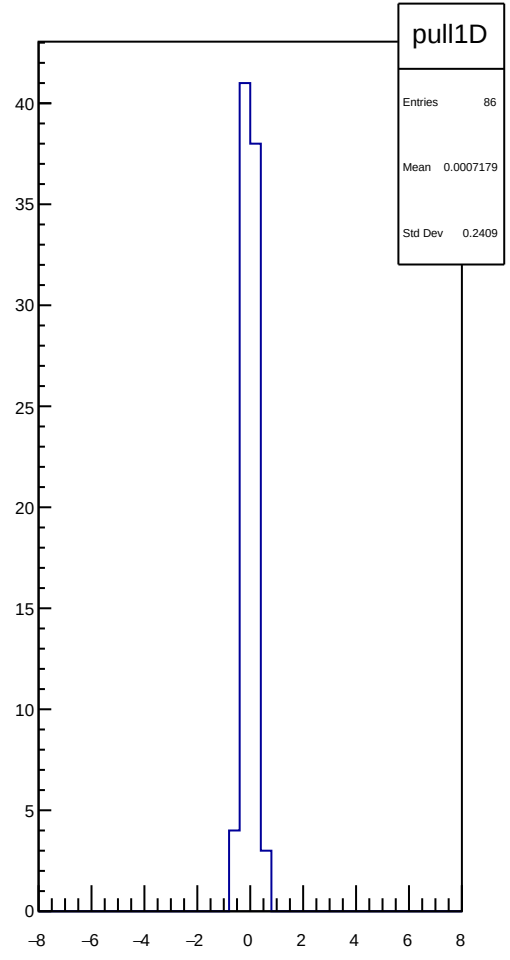

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 19.85 / 85
p0 233.9 ± 0.5066
245
240
235
230
225
pull
Entries 86
Mean −272.5
Std Dev 0
1
0.5
0
−0.5
−1

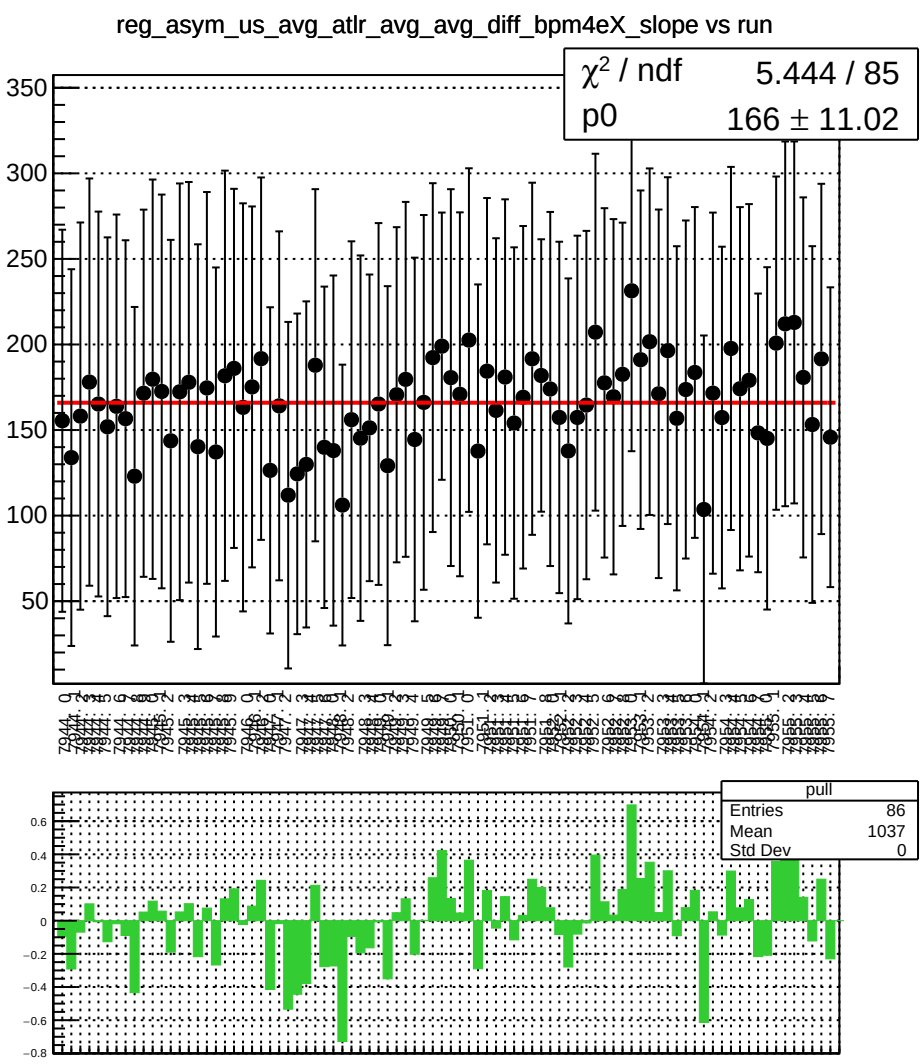

pull1D
Entries 86
Mean −0.02518
Std Dev 0.4797
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

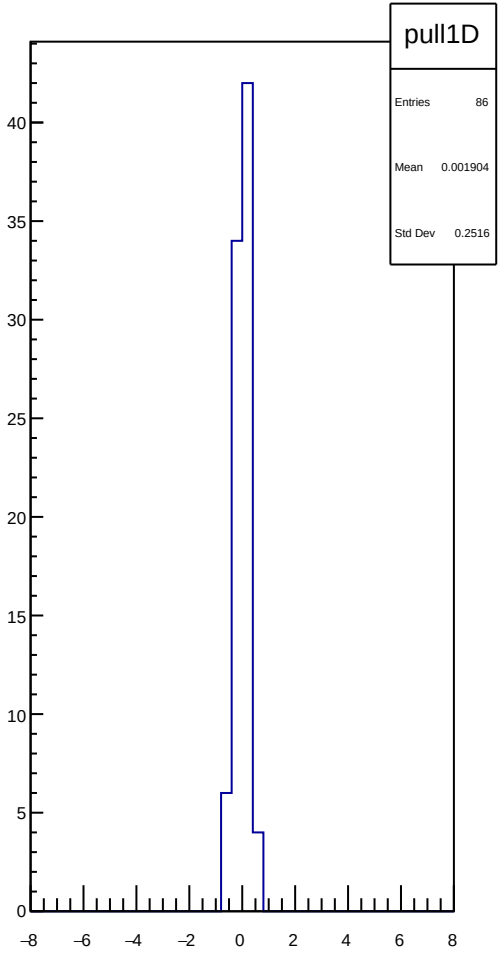

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.169 / 85
p0 −176.3 ± 12.41
pull
Entries 86
Mean 4455
Std Dev 0

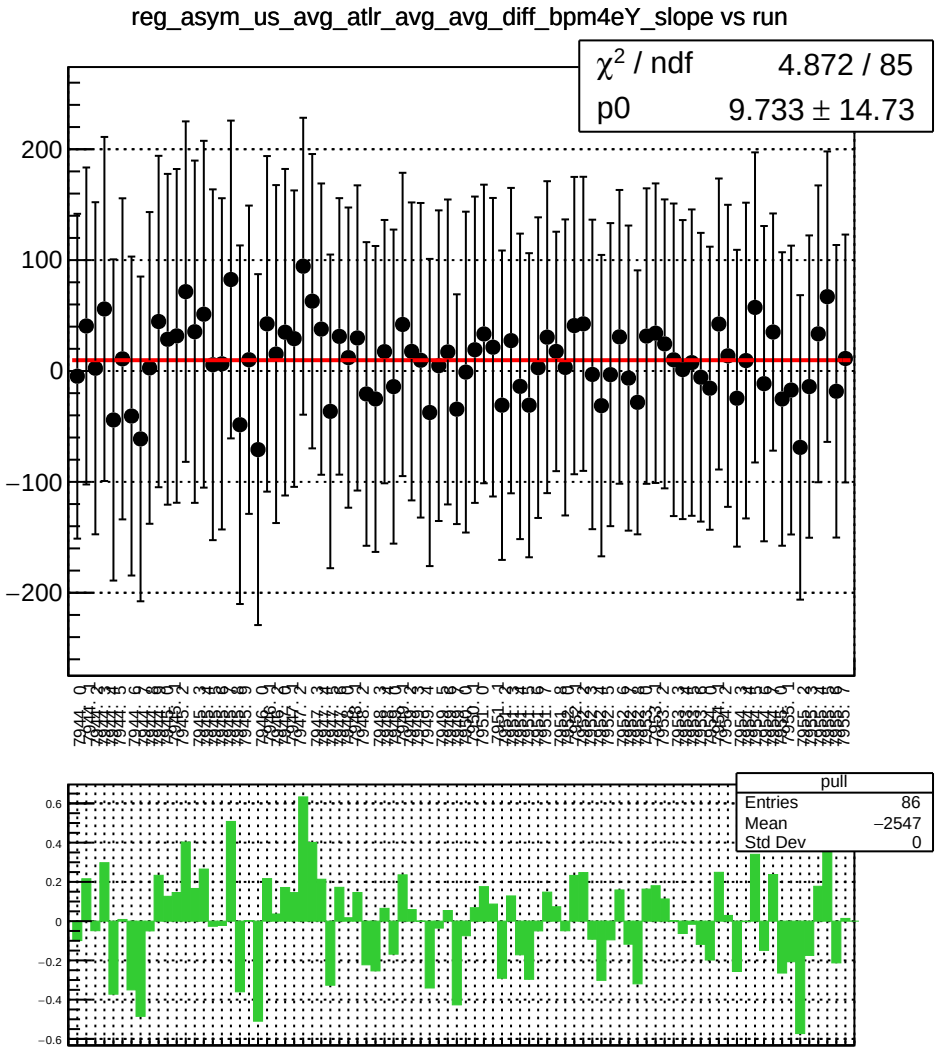

pull1D
Entries 86
Mean −0.000392
Std Dev 0.2452

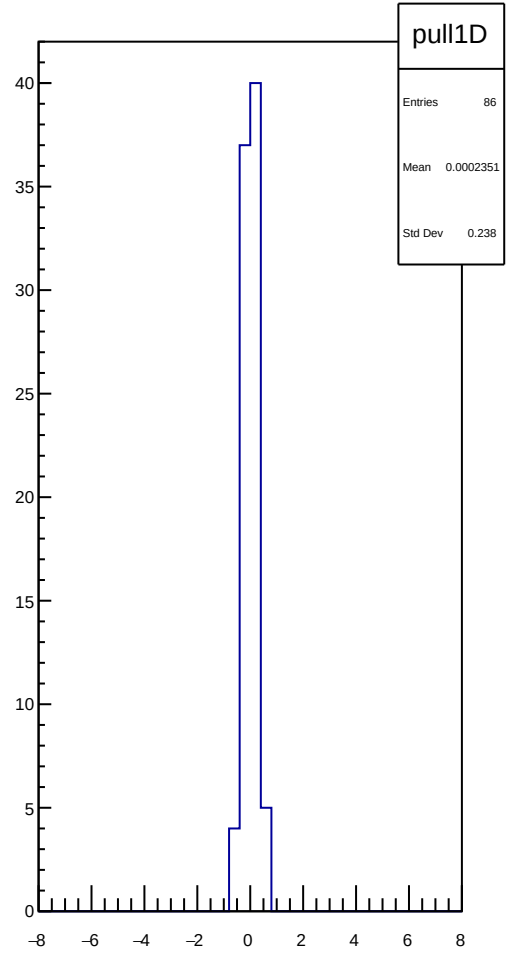

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.993 / 85
p0 67.94 ± 12.82
pull
Entries 86
Mean 511.9
Std Dev 0

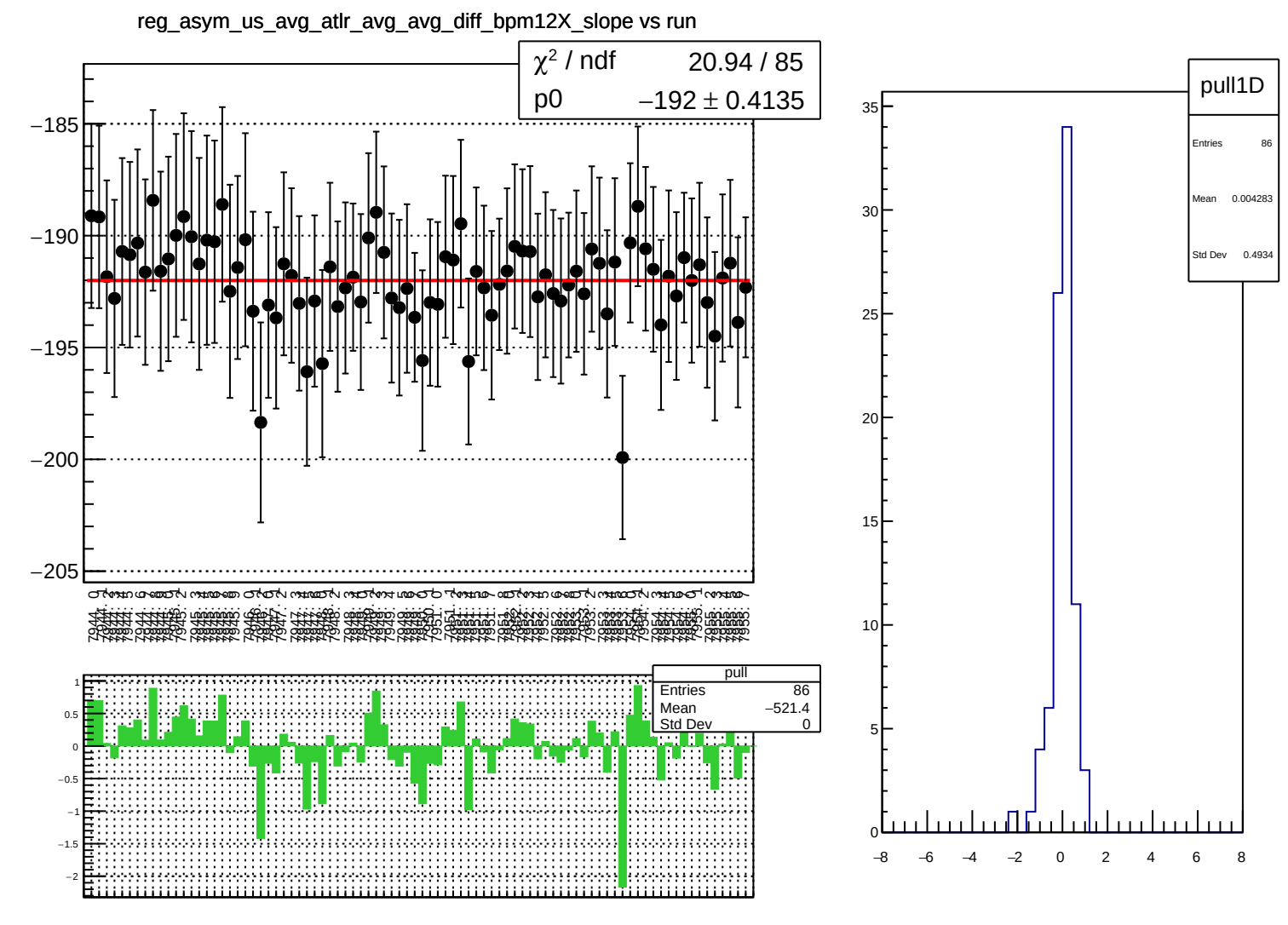

pull1D
Entries 86
Mean 0.0007179
Std Dev 0.2409

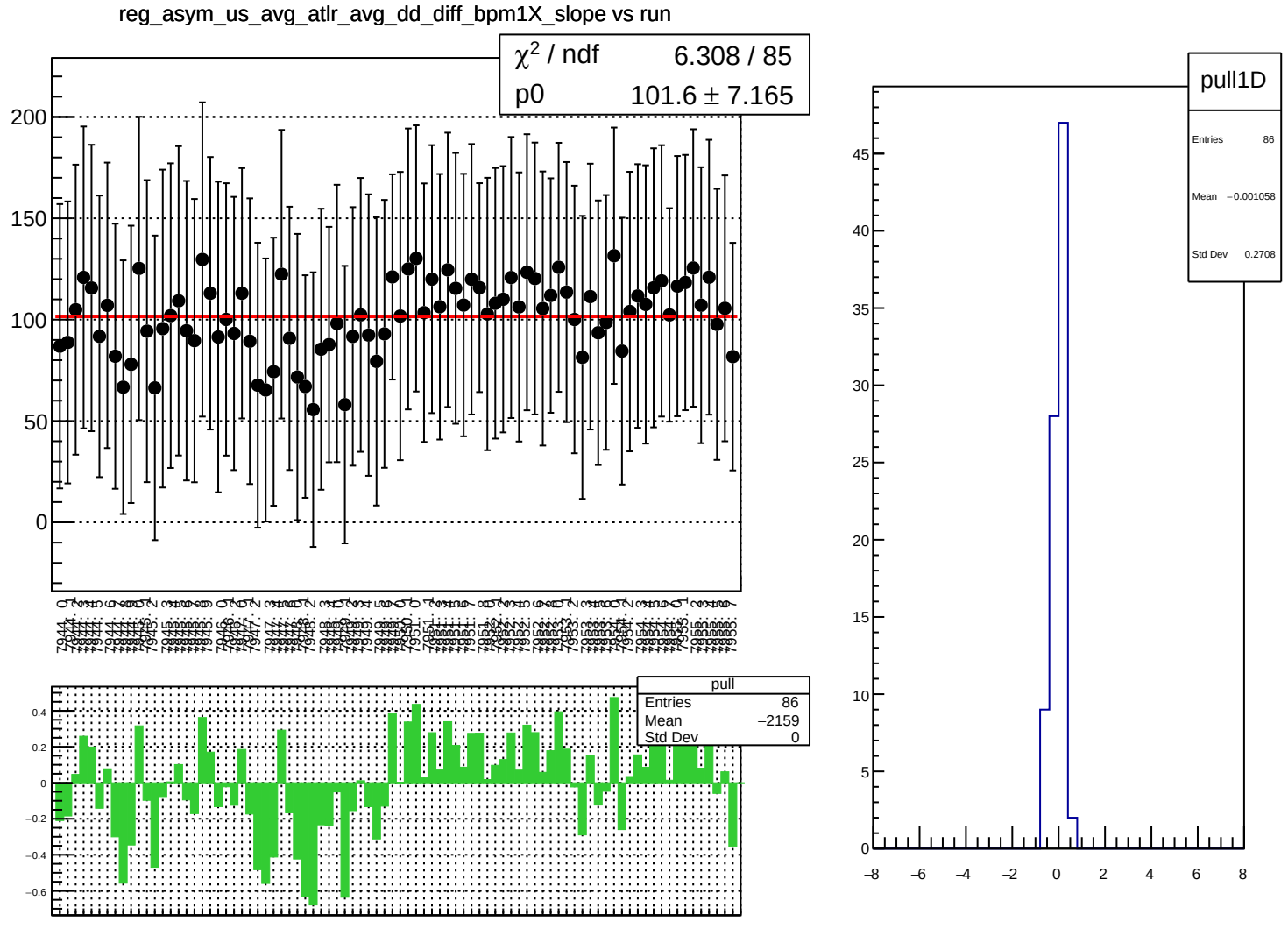

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.444 / 85
p0 166 ± 11.02
pull
Entries 86
Mean 1037
Std Dev 0

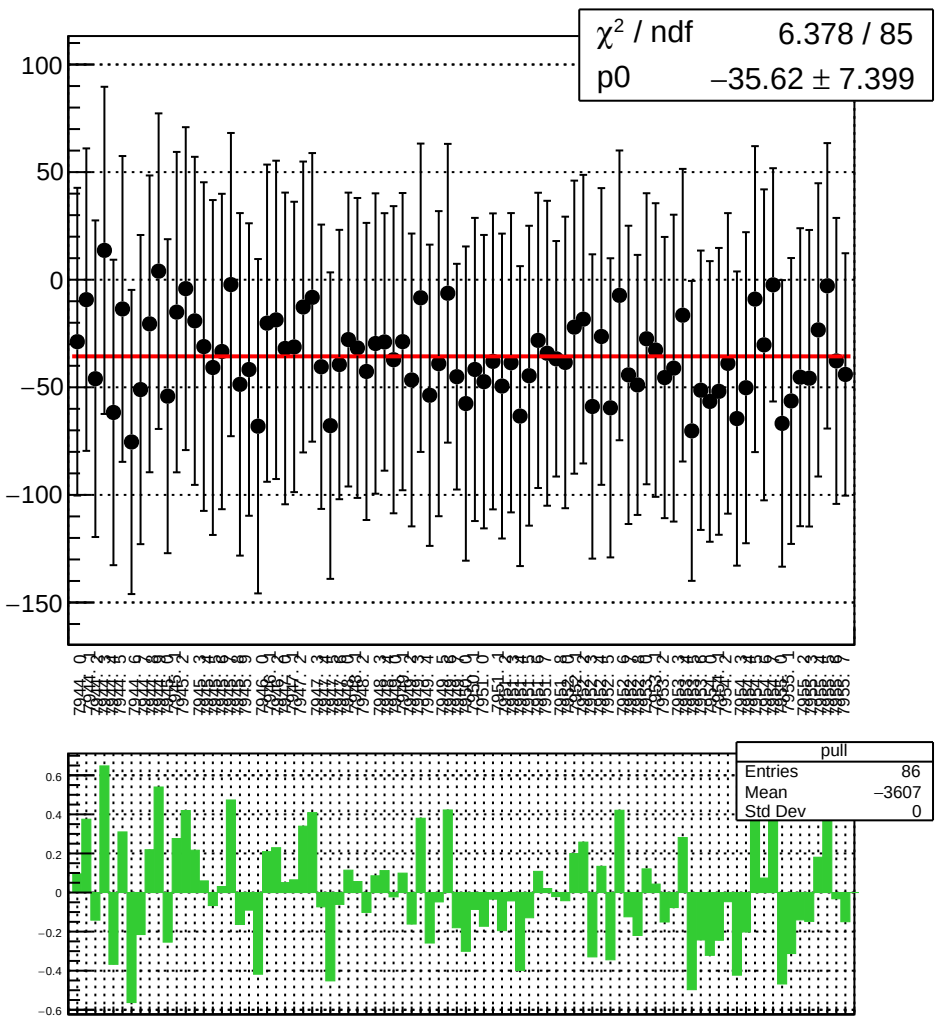

pull1D
Entries 86
Mean 0.001904
Std Dev 0.2516

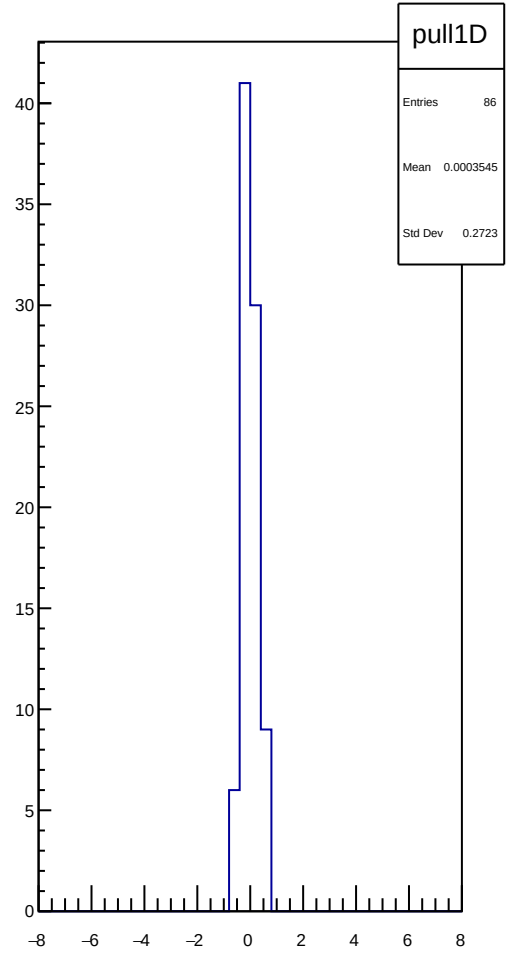

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.872 / 85
p0 9.733 ± 14.73
200
100
0
−100
−200
pull
Entries 86
Mean −2547
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

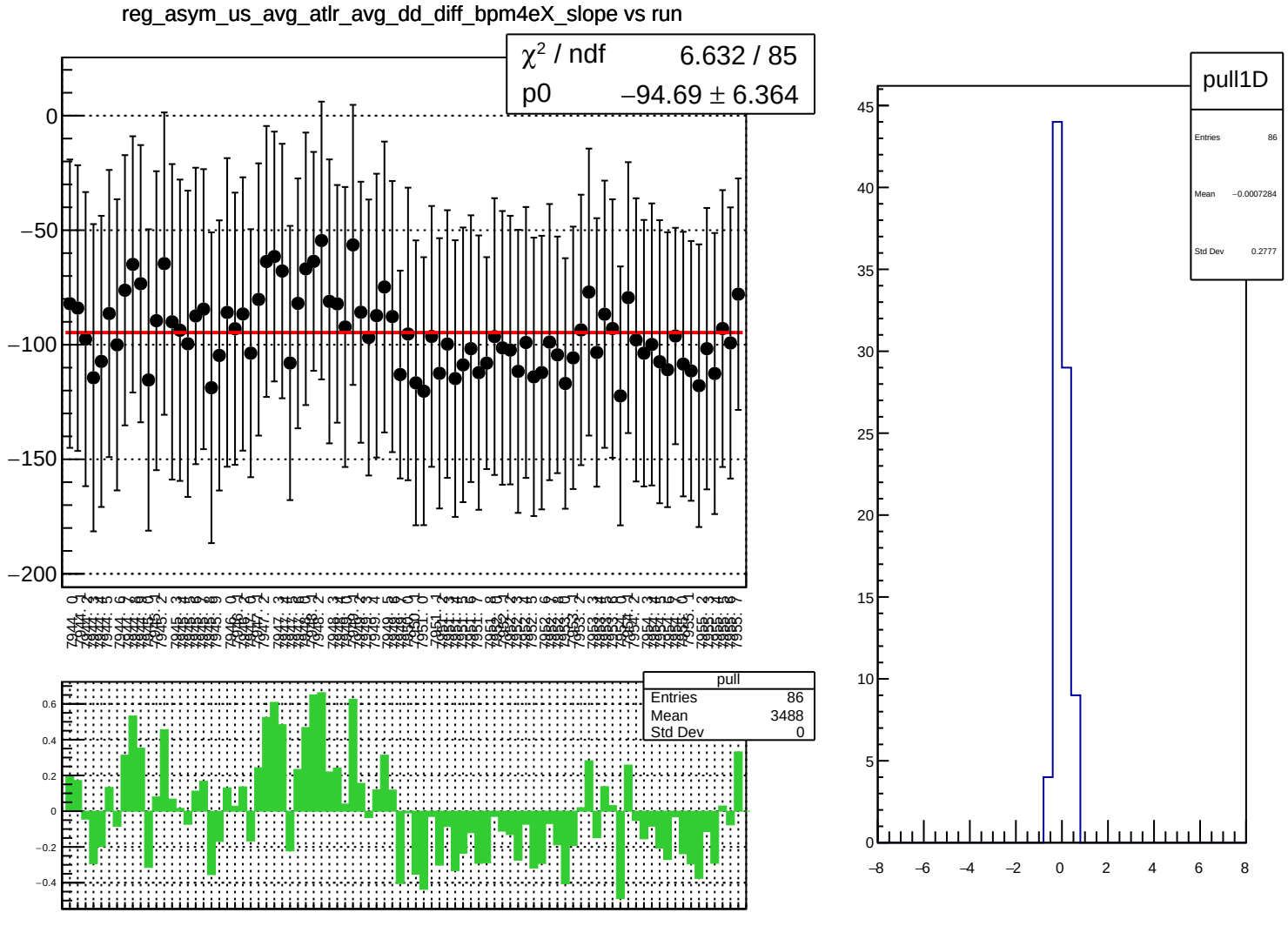

pull1D
Entries 86
Mean 0.0002351
Std Dev 0.238
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

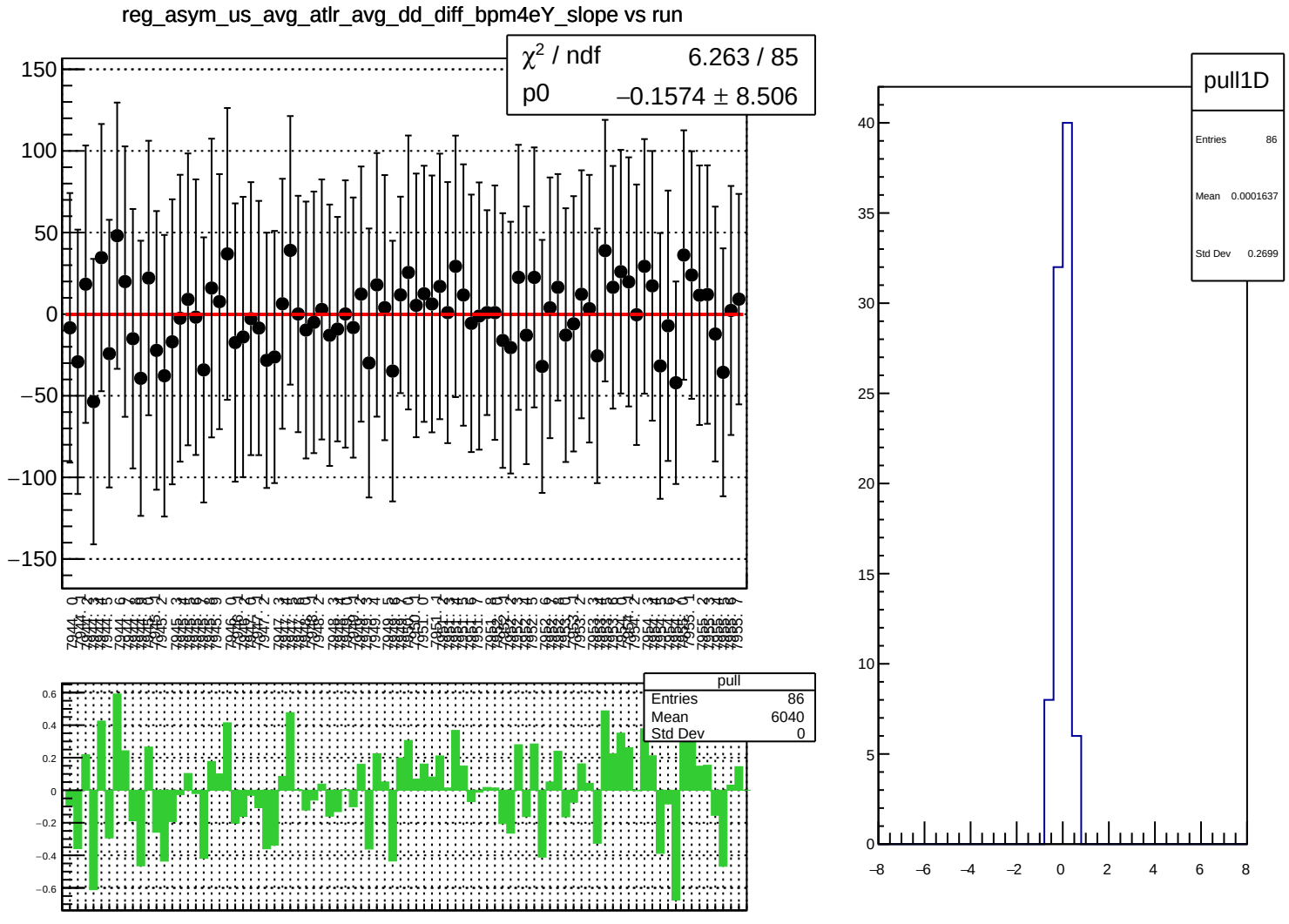

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 20.94 / 85
p0 −192 ± 0.4135
−185
−190
−195
−200
−205
pull
Entries 86
Mean −521.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean 0.004283
Std Dev 0.4934
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

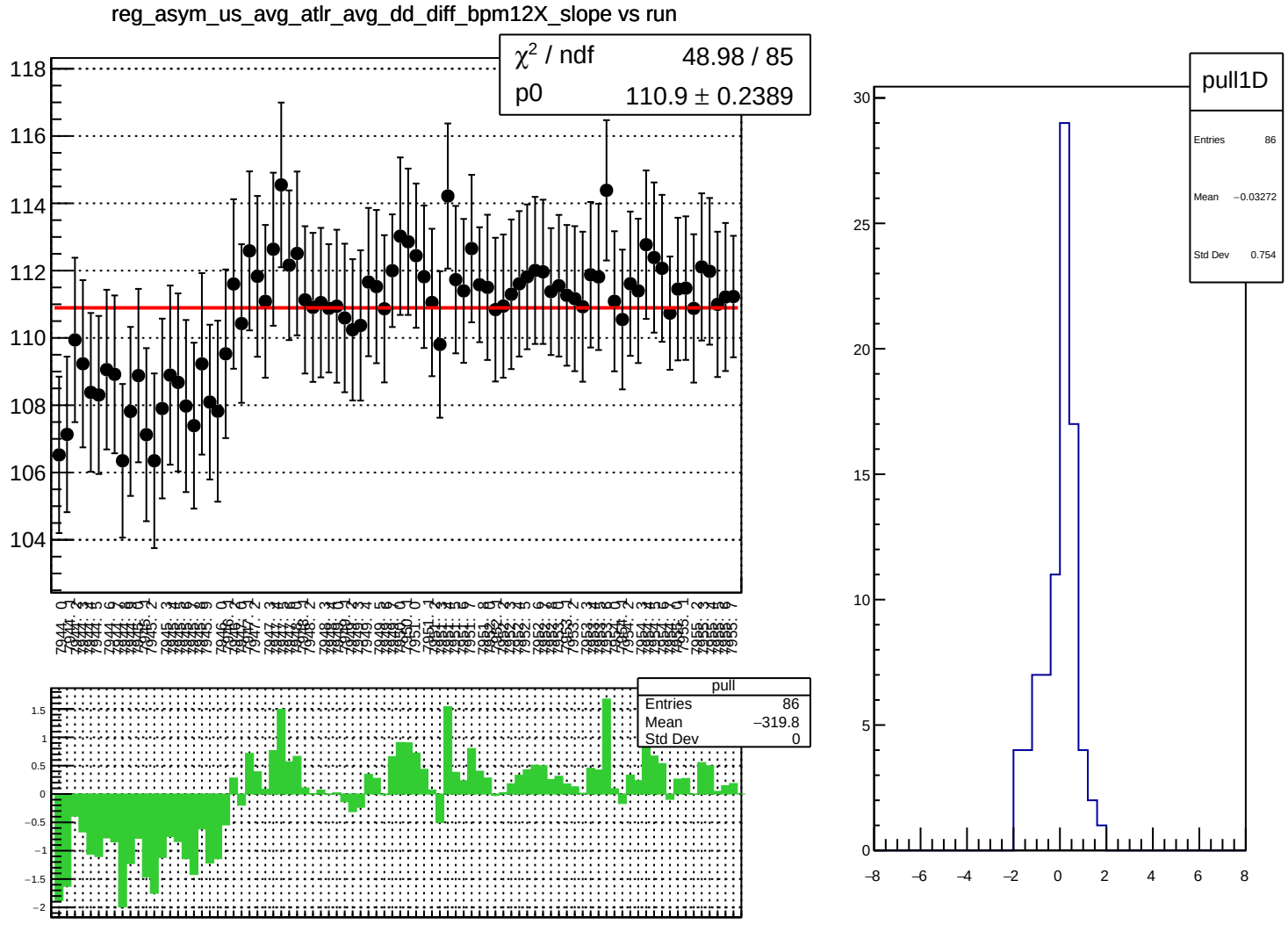

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 6.308 / 85
p0 101.6 ± 7.165
200
150
100
50
0
pull
Entries 86
Mean −2159
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 86
Mean −0.001058
Std Dev 0.2708
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

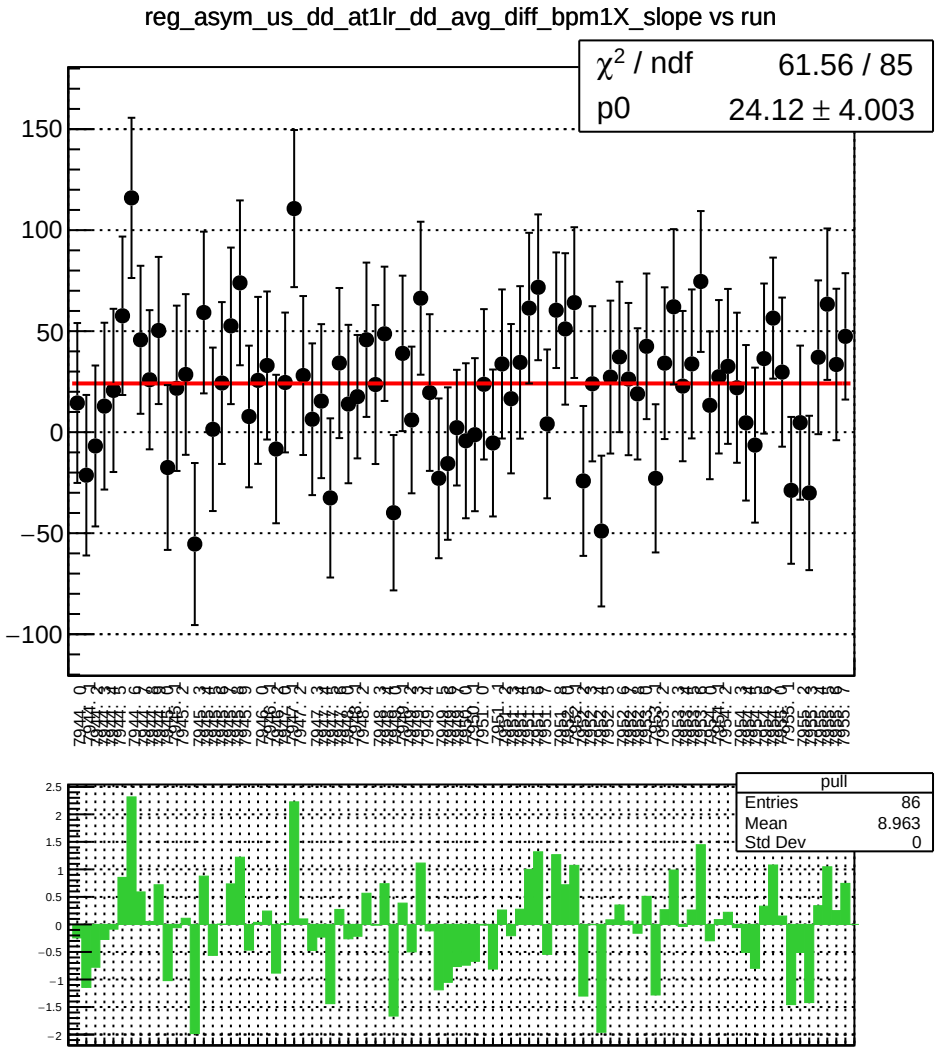

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.378 / 85
p0 −35.62 ± 7.399
pull
Entries 86
Mean −3607
Std Dev 0

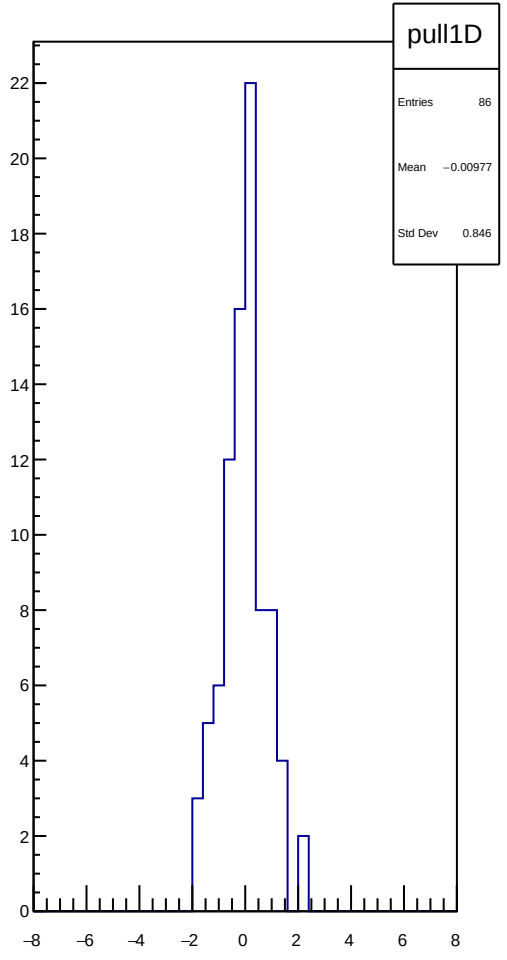

pull1D
Entries 86
Mean 0.0003545
Std Dev 0.2723

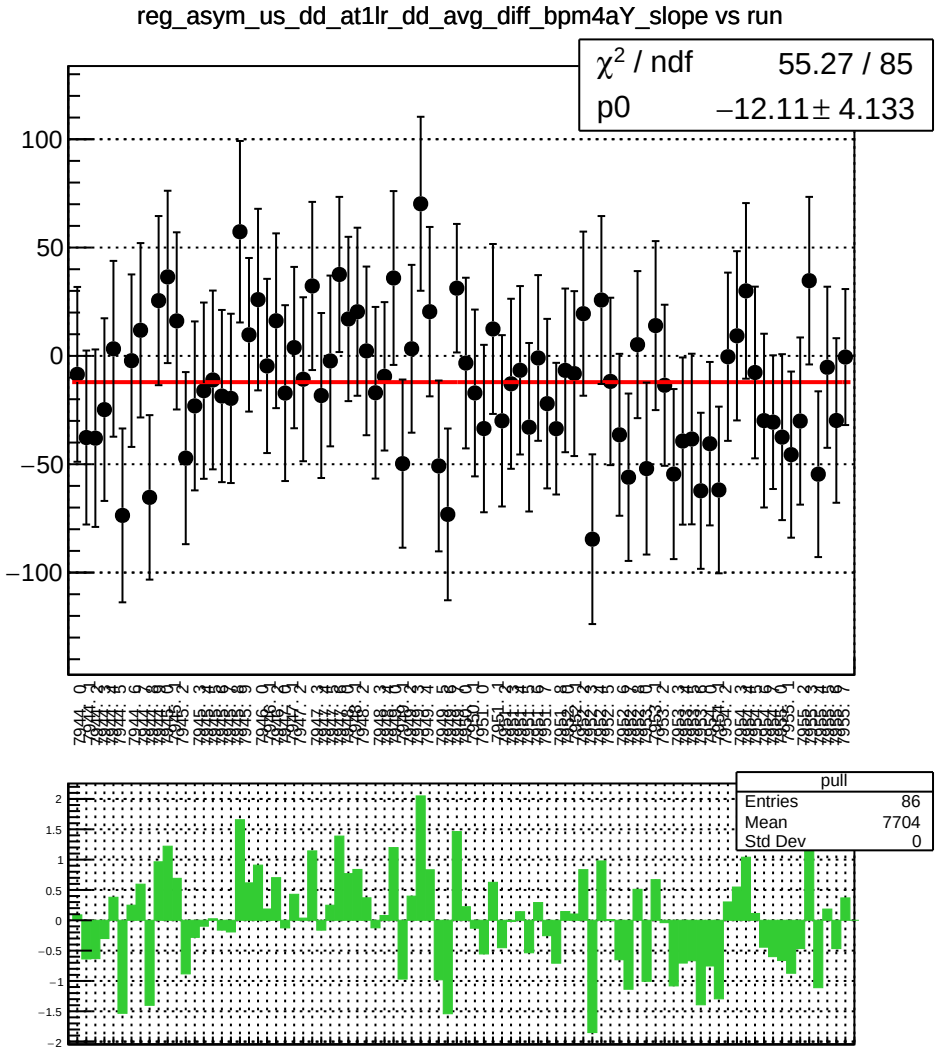

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.632 / 85
p0 −94.69 ± 6.364
pull
Entries 86
Mean 3488
Std Dev 0
pull1D
Entries 86
Mean −0.0007284
Std Dev 0.2777

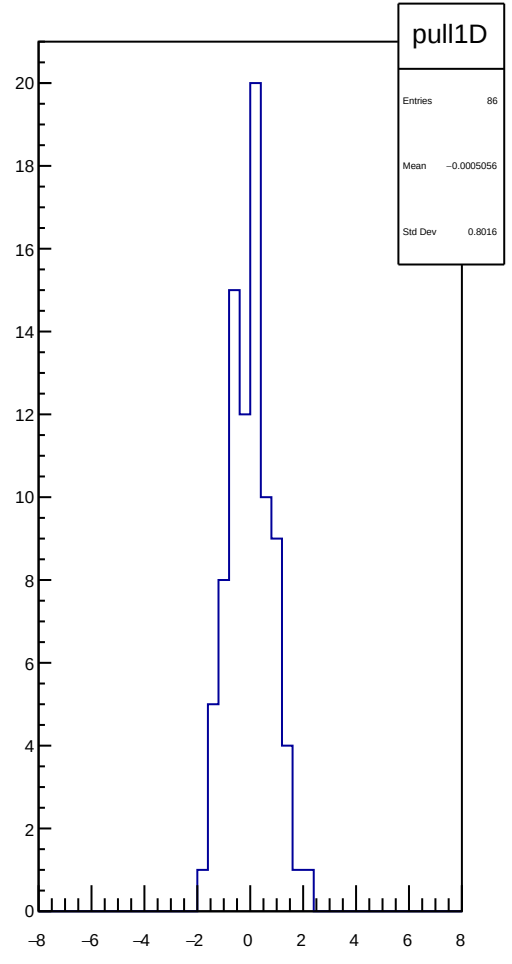

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.263 / 85
p0 −0.1574 ± 8.506
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 6040
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 86
Mean 0.0001637
Std Dev 0.2699
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

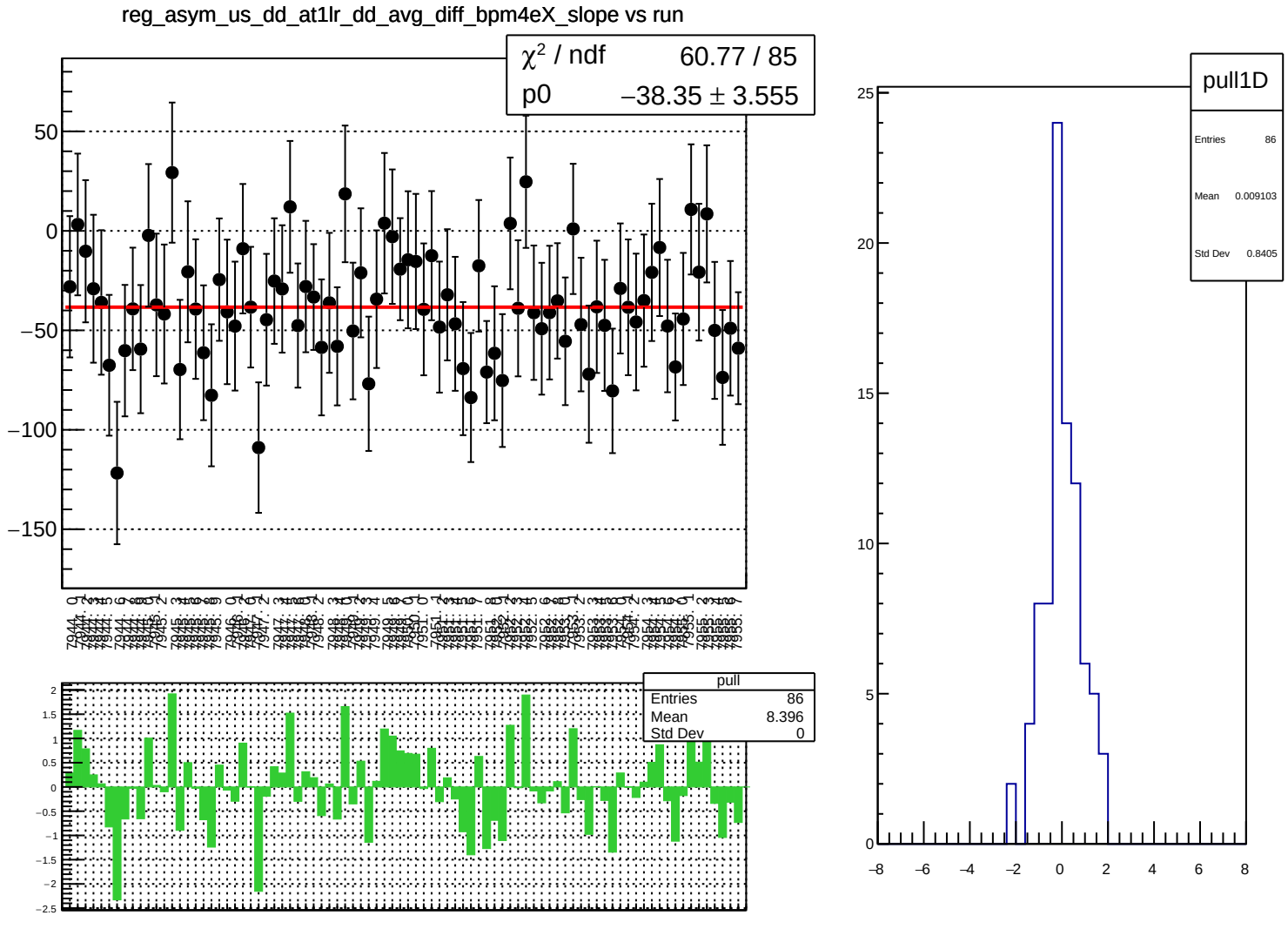

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 48.98 / 85
p0 110.9 ± 0.2389
pull
Entries 86
Mean −319.8
Std Dev 0
pull1D
Entries 86
Mean −0.03272
Std Dev 0.754

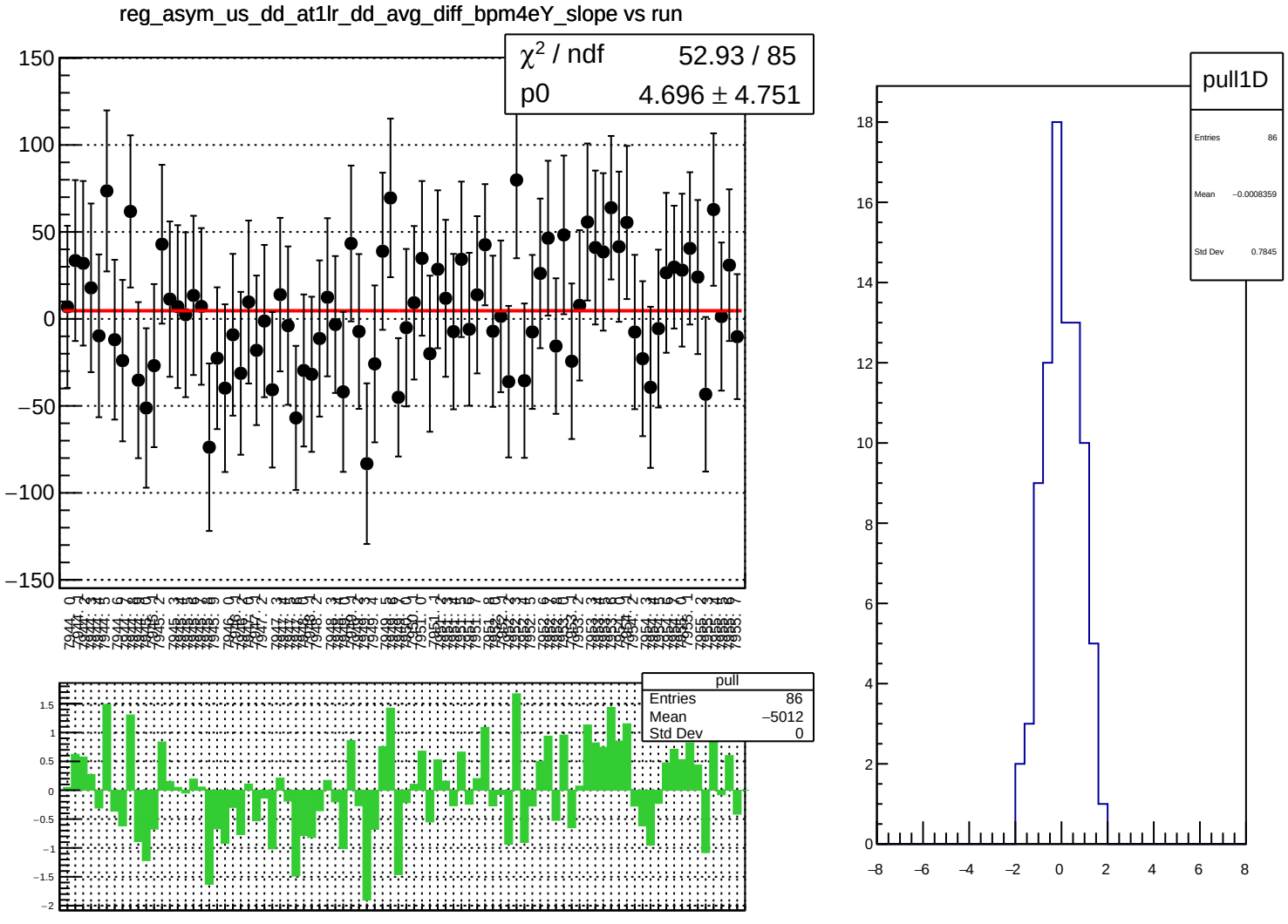

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ^2 / ndf 61.56 / 85
p0 24.12 ± 4.003
150
100
50
0
−50
−100
pull
Entries 86
Mean 8.963
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

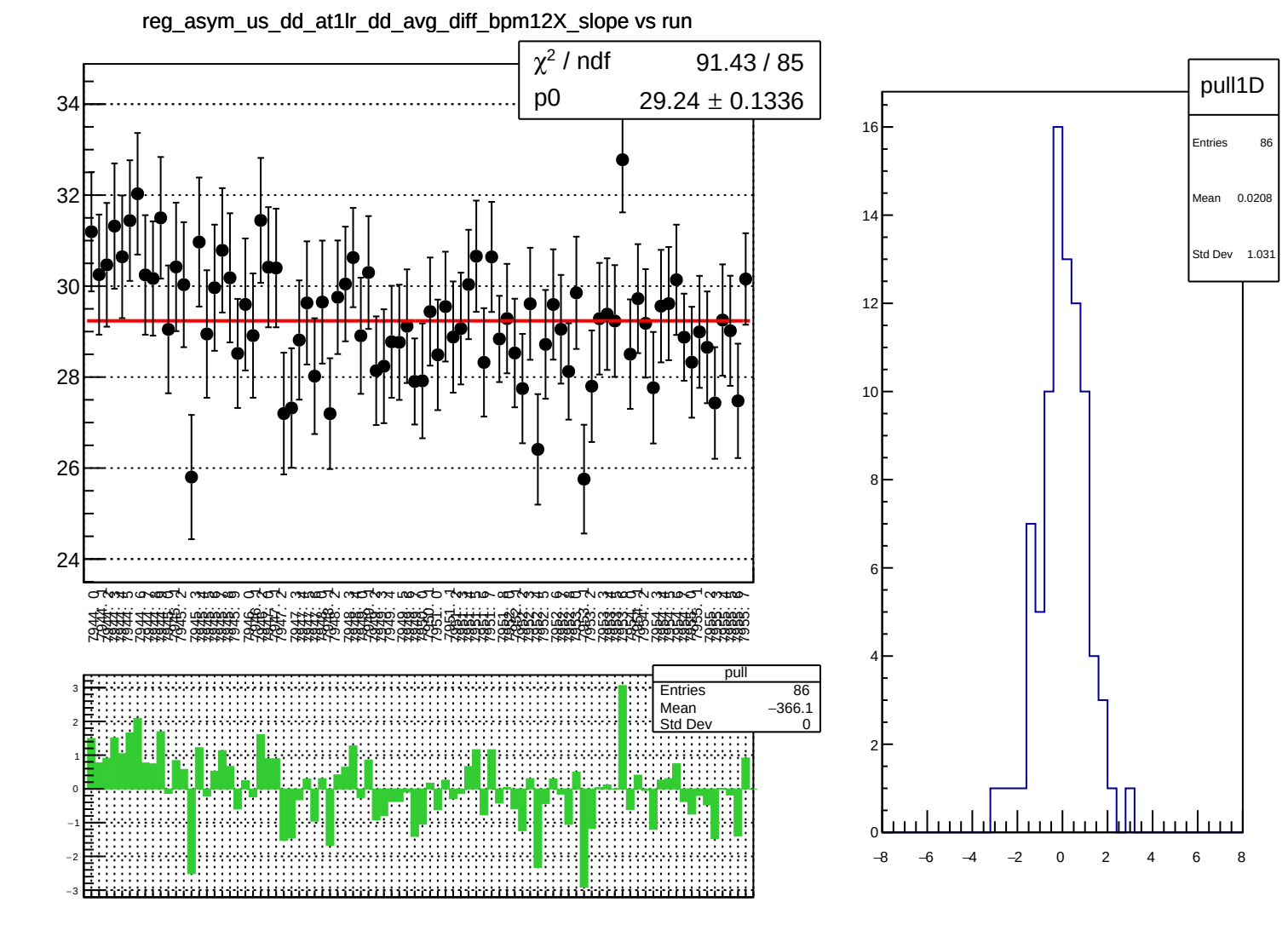

pull1D
Entries 86
Mean −0.00977
Std Dev 0.846
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

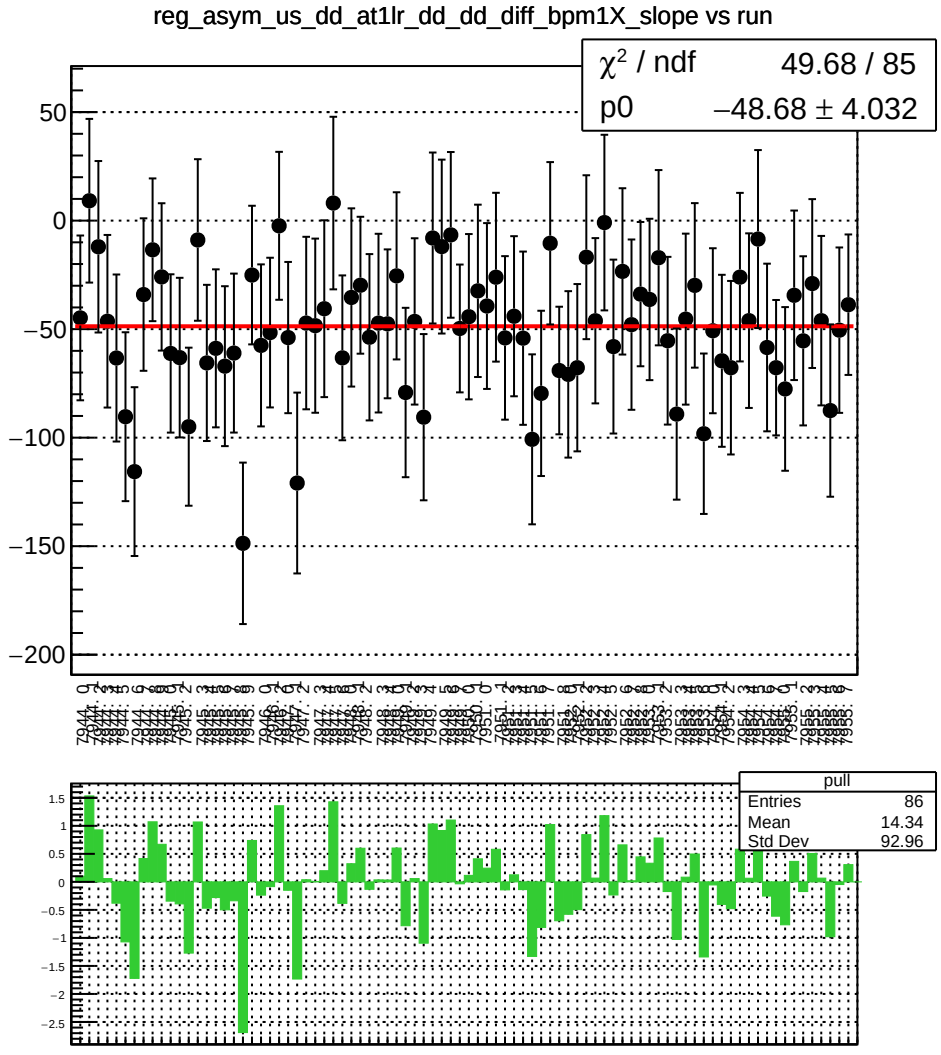

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.27 / 85
p0 −12.11 ± 4.133
pull
Entries 86
Mean 7704
Std Dev 0

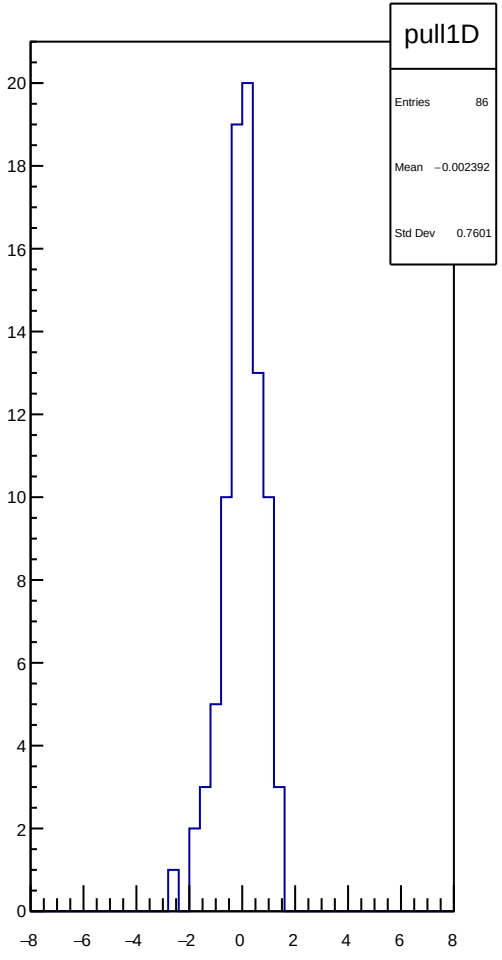

pull1D
Entries 86
Mean −0.0005056
Std Dev 0.8016

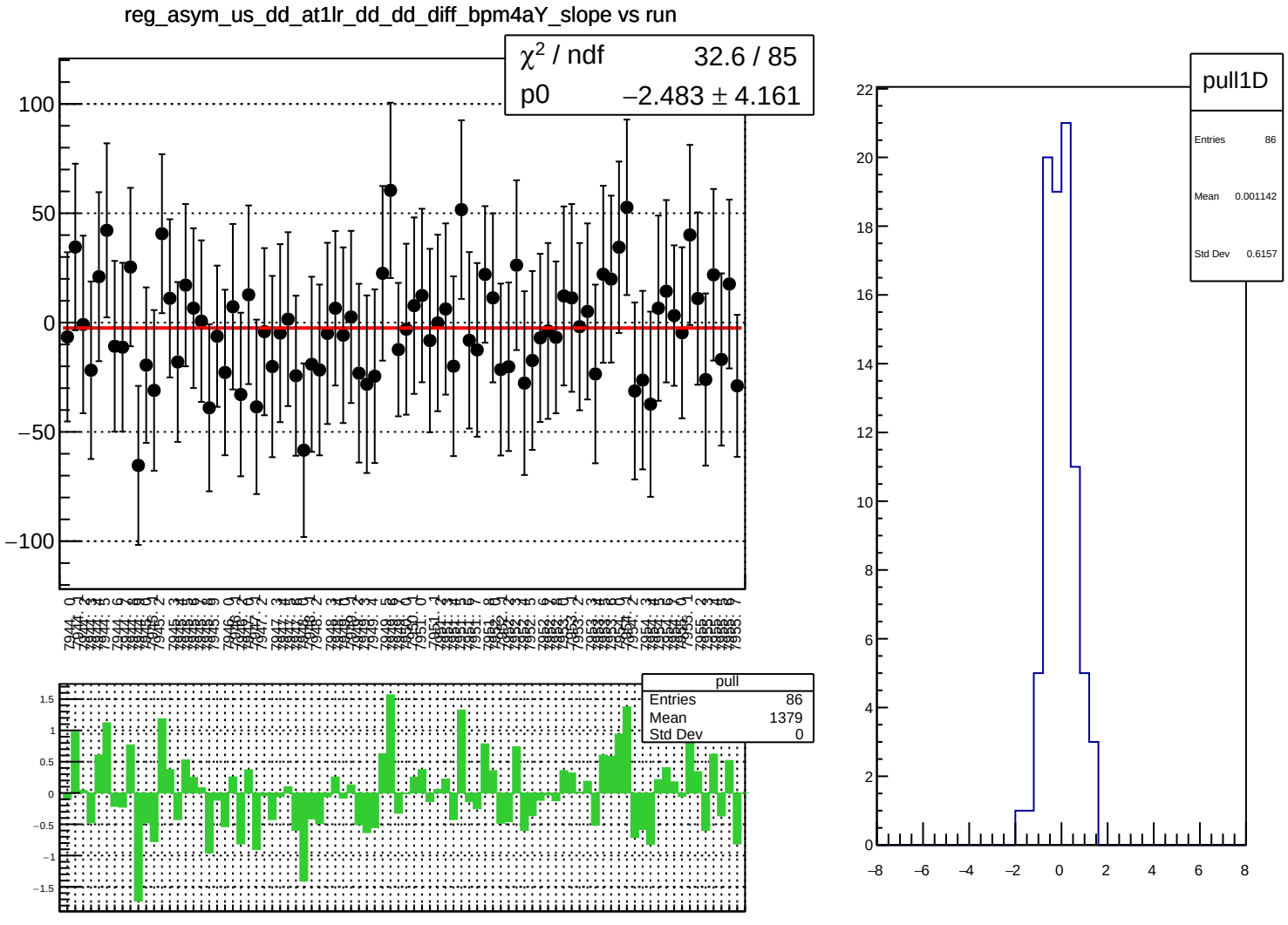

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.77 / 85
p0 −38.35 ± 3.555
pull
Entries 86
Mean 8.396
Std Dev 0
pull1D
Entries 86
Mean 0.009103
Std Dev 0.8405

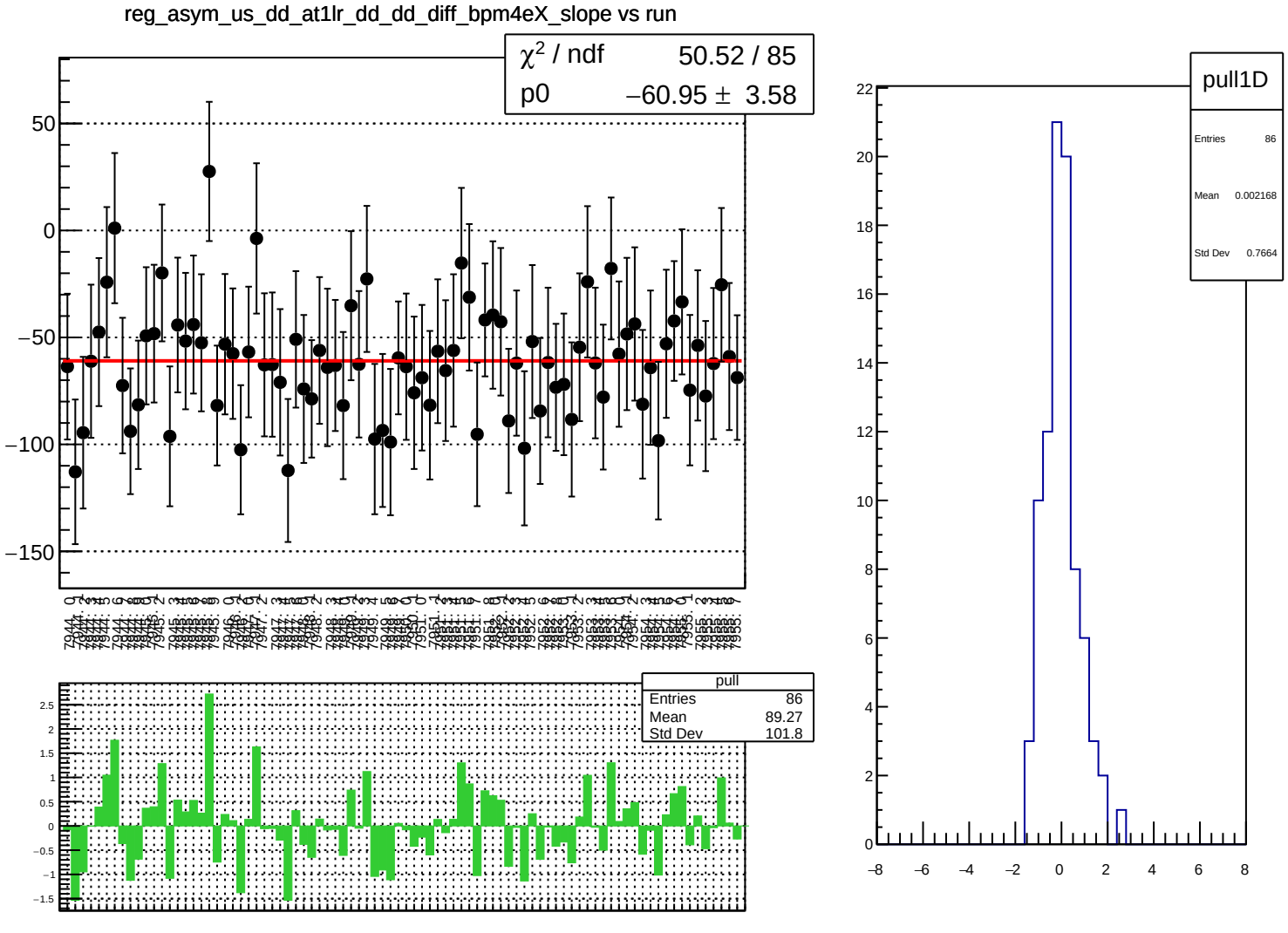

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.93 / 85
p0 4.696 ± 4.751
pull
Entries 86
Mean −5012
Std Dev 0
pull1D
Entries 86
Mean −0.0008359
Std Dev 0.7845

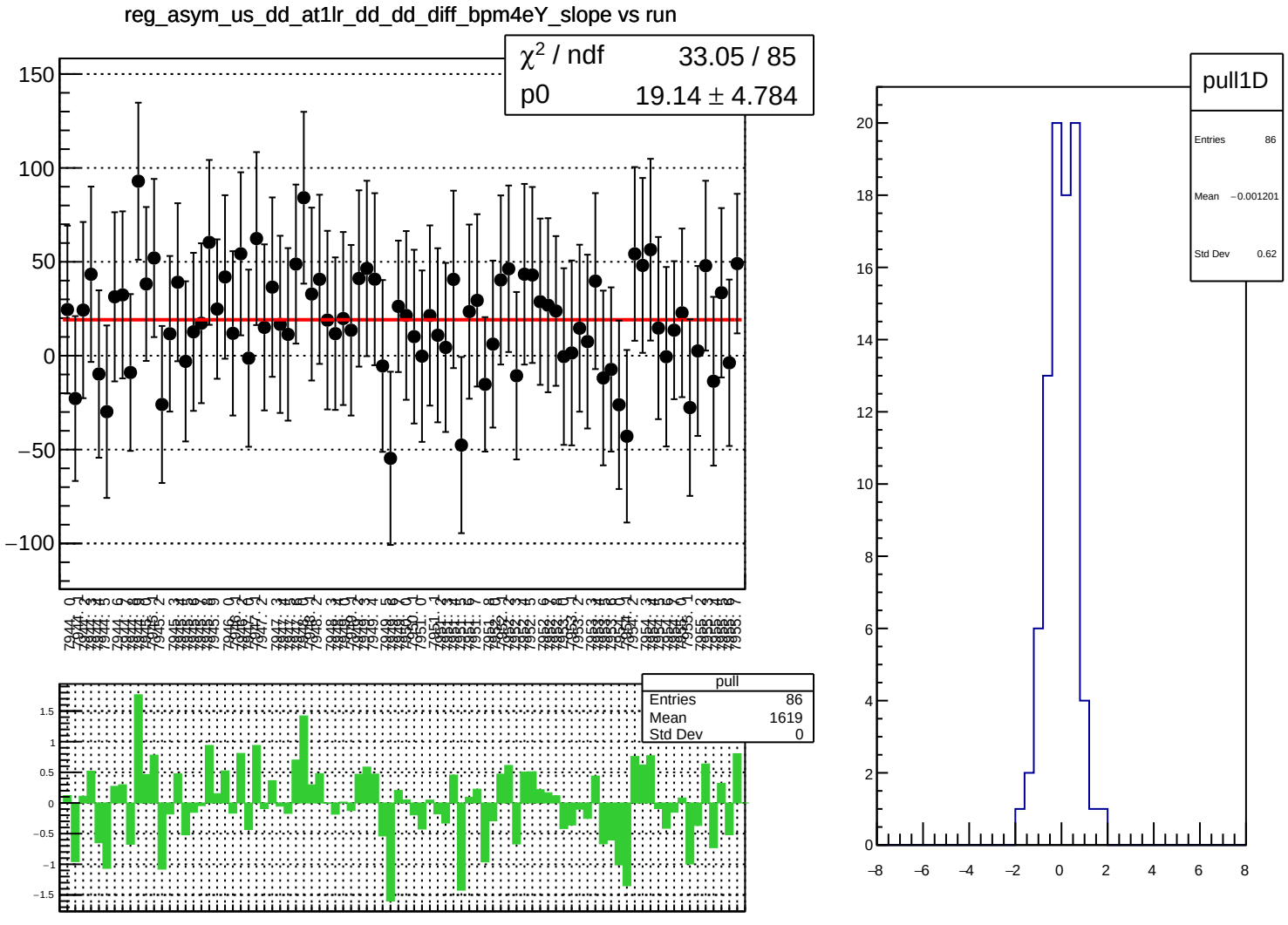

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 91.43 / 85
p0 29.24 ± 0.1336
pull
Entries 86
Mean −366.1
Std Dev 0
pull1D
Entries 86
Mean 0.0208
Std Dev 1.031

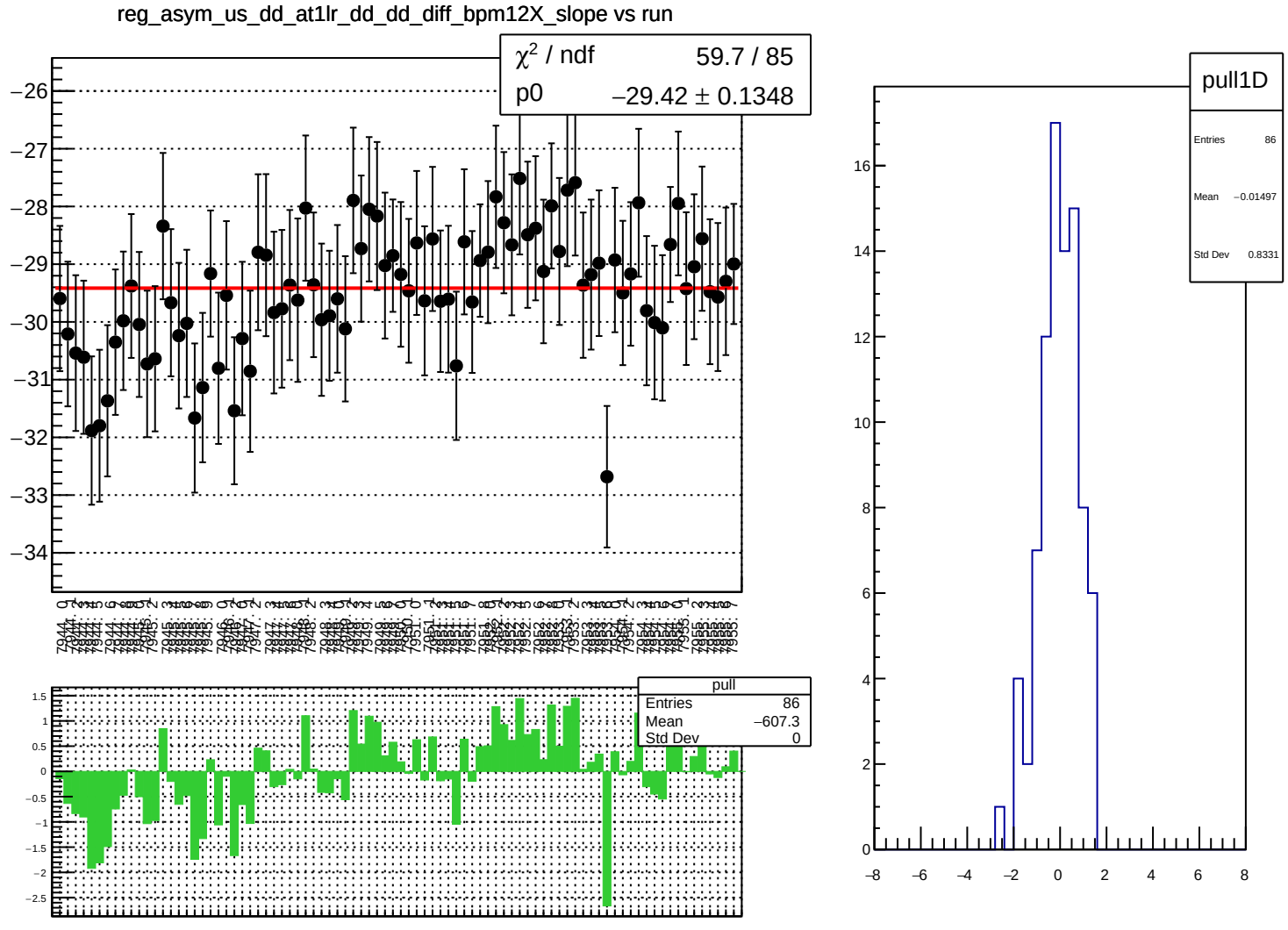

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 49.68 / 85
p0 −48.68 ± 4.032
pull
Entries 86
Mean 14.34
Std Dev 92.96

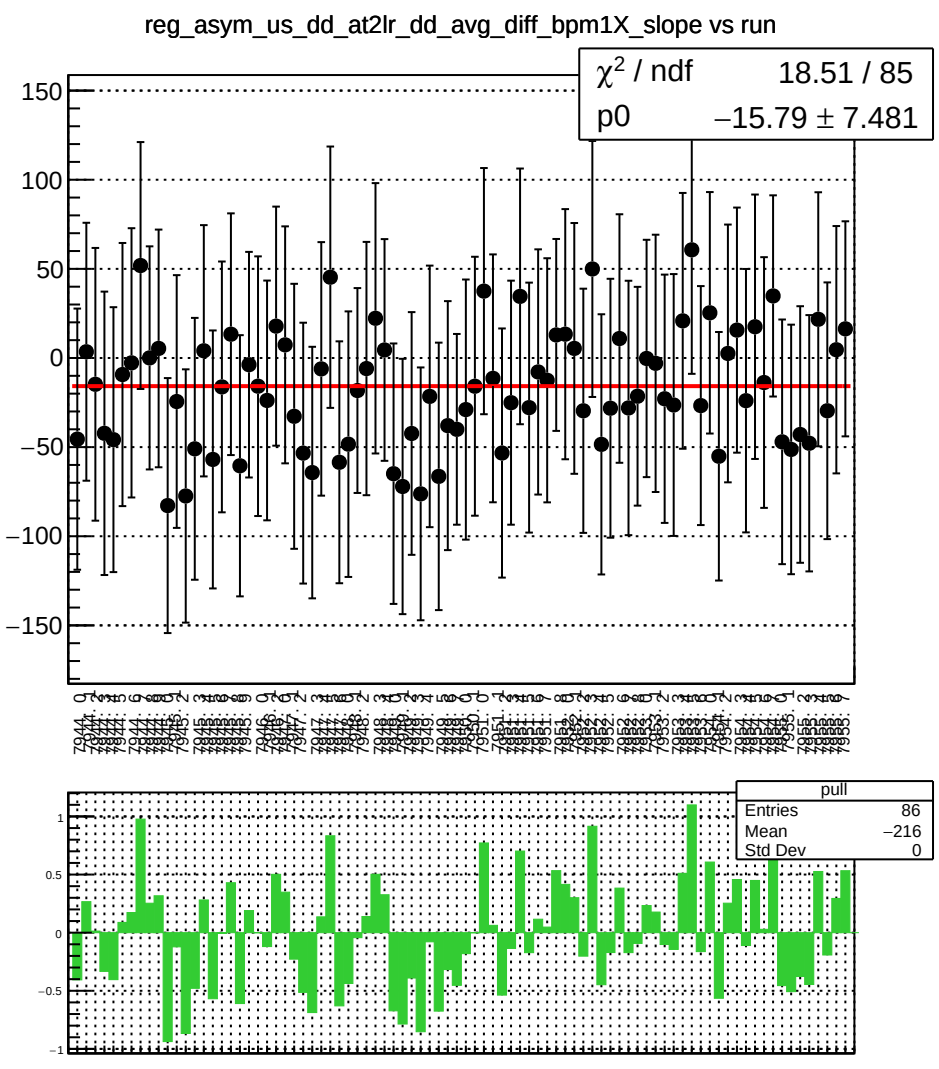

pull1D
Entries 86
Mean −0.002392
Std Dev 0.7601

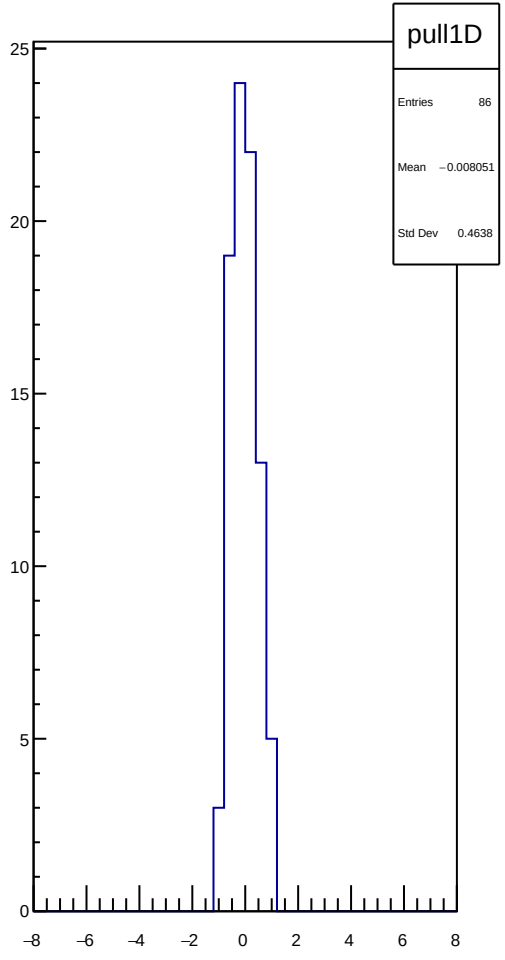

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.6 / 85
p0 −2.483 ± 4.161
pull
Entries 86
Mean 1379
Std Dev 0
pull1D
Entries 86
Mean 0.001142
Std Dev 0.6157

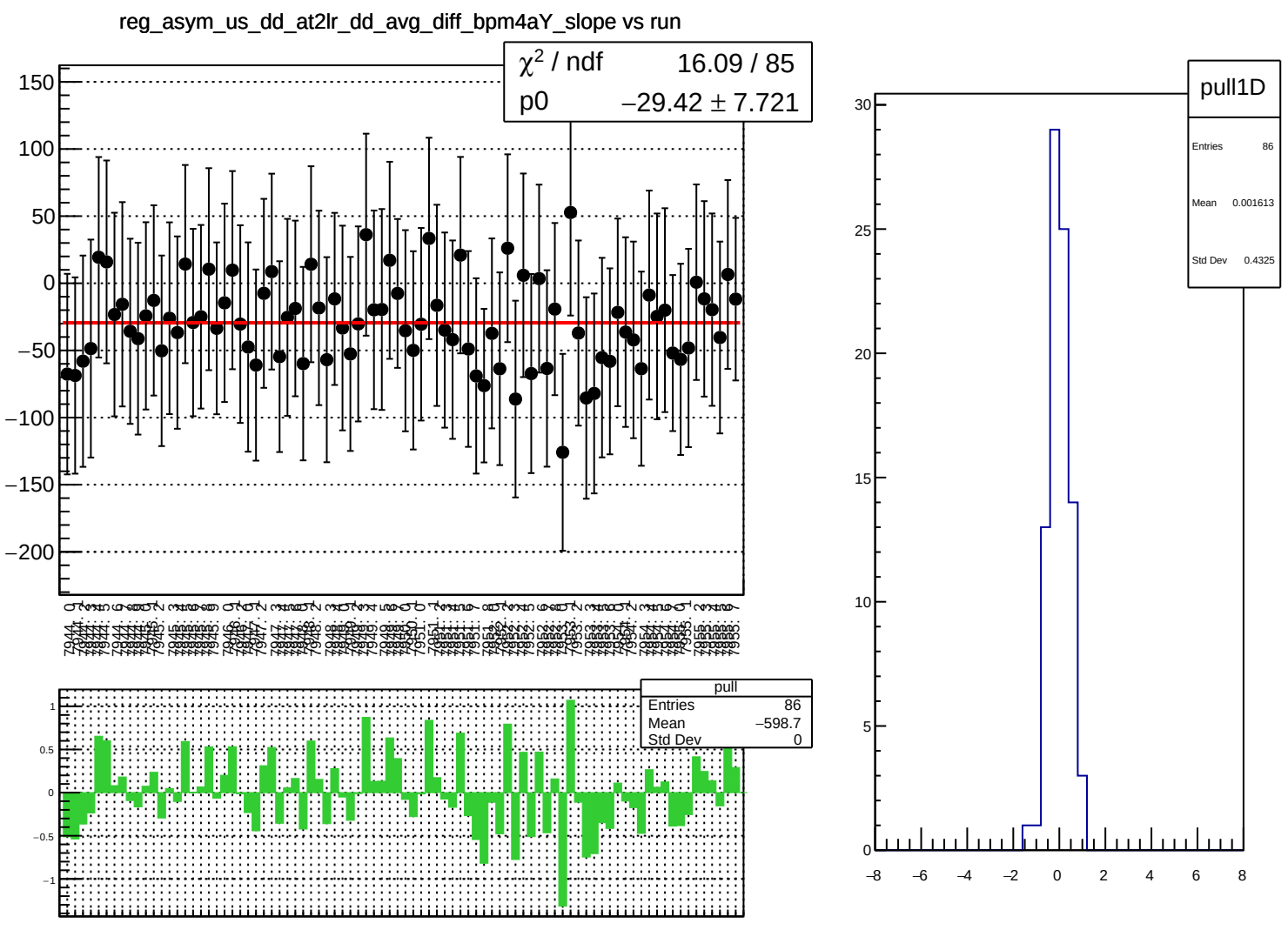

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.52 / 85
p0 −60.95 ± 3.58
50
0
−50
−100
−150
pull
Entries 86
Mean 89.27
Std Dev 101.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.002168
Std Dev 0.7664
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

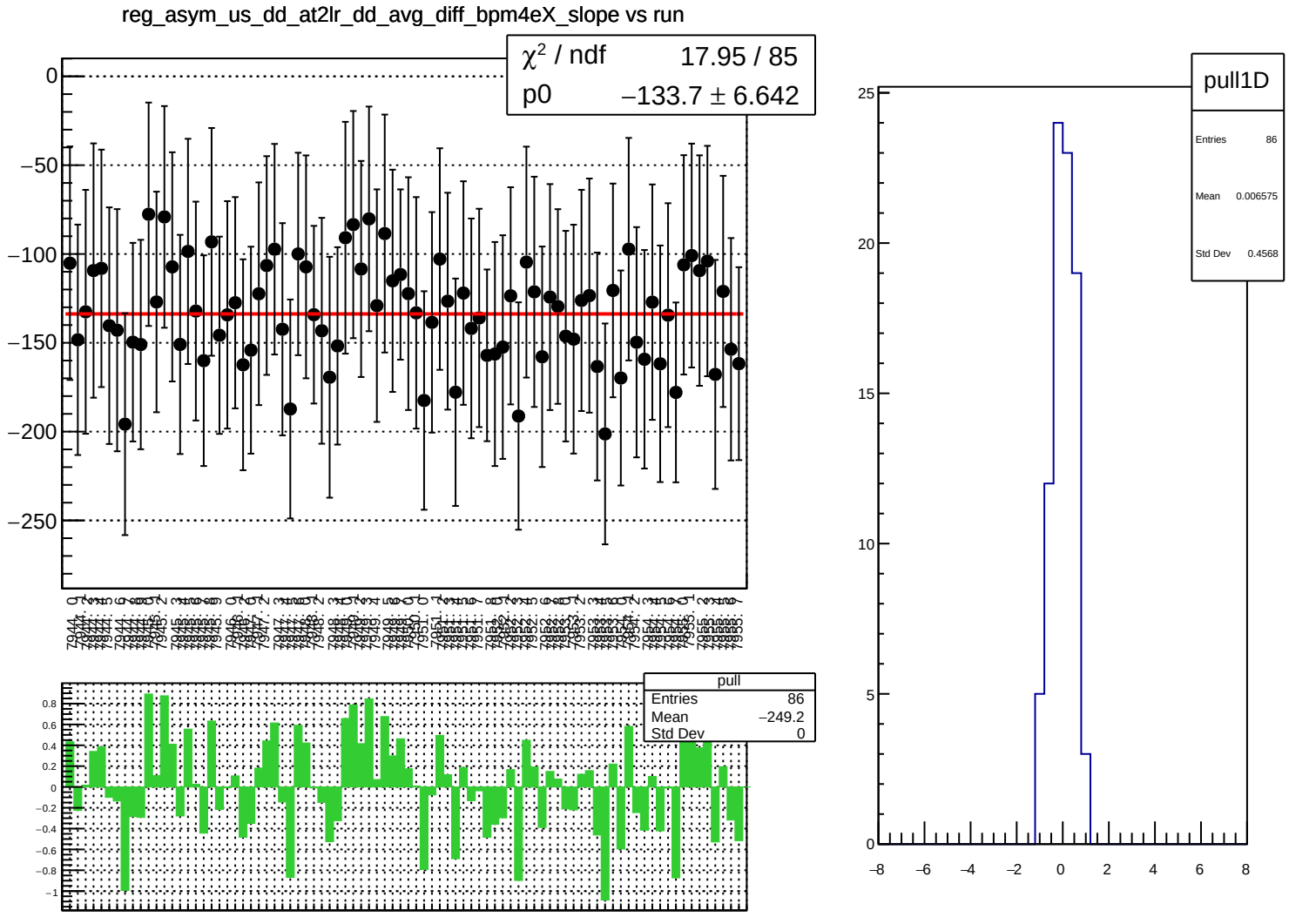

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.05 / 85
p0 19.14 ± 4.784
150
100
50
0
−50
−100
pull
Entries 86
Mean 1619
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean −0.001201
Std Dev 0.62
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

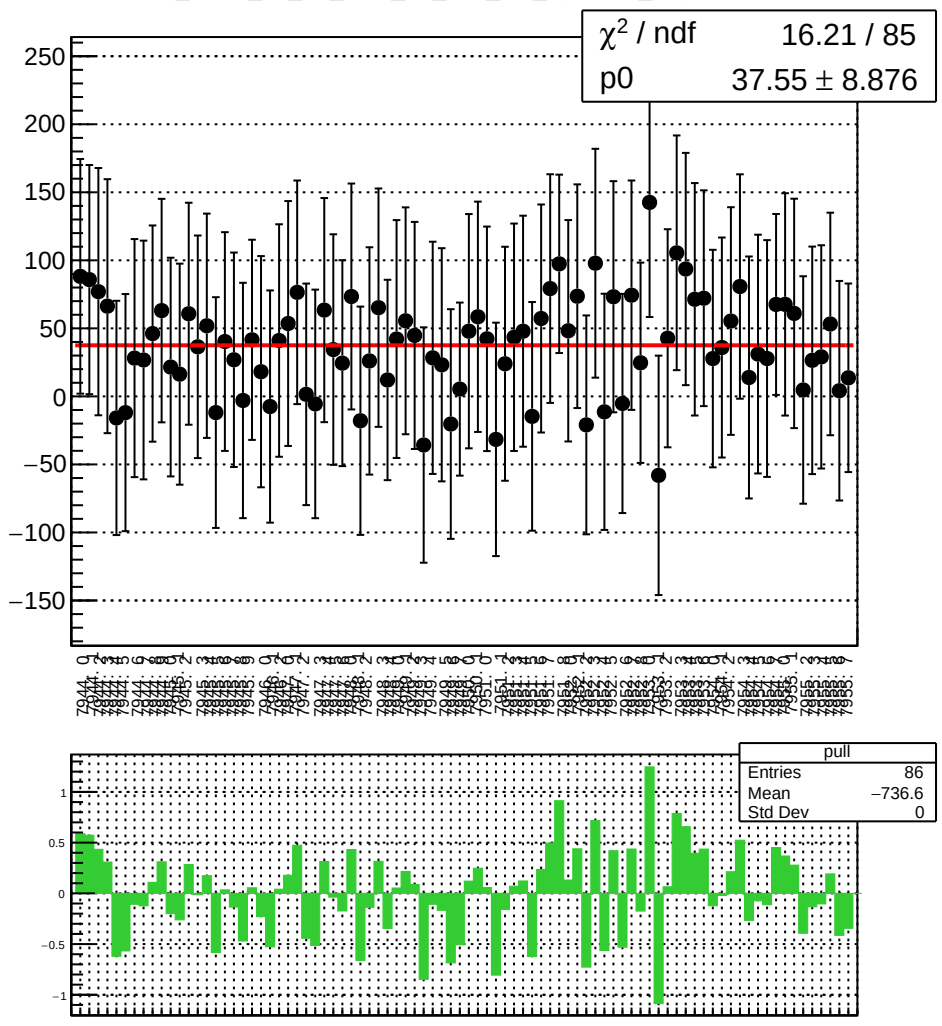

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 59.7 / 85
p0 −29.42 ± 0.1348
pull
Entries 86
Mean −607.3
Std Dev 0
pull1D
Entries 86
Mean −0.01497
Std Dev 0.8331

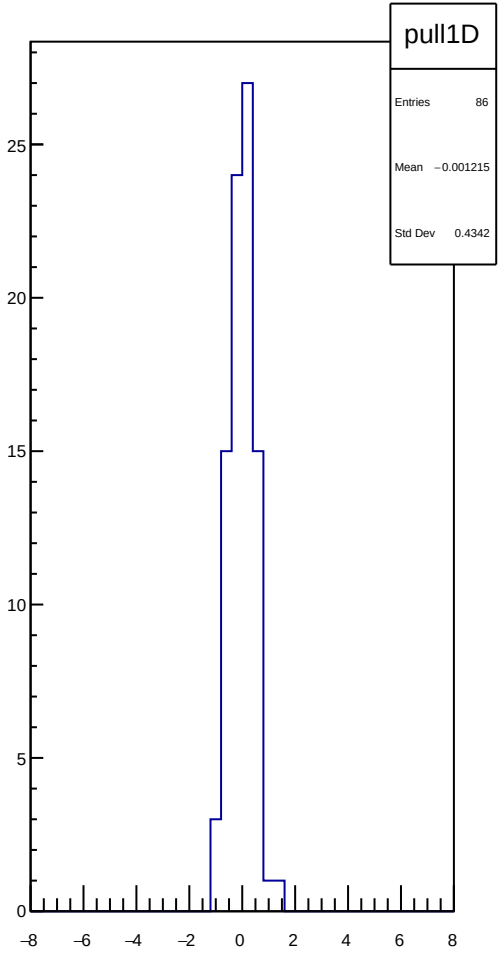

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 18.51 / 85
p0 −15.79 ± 7.481
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −216
Std Dev 0
1
0.5
0
−0.5
−1

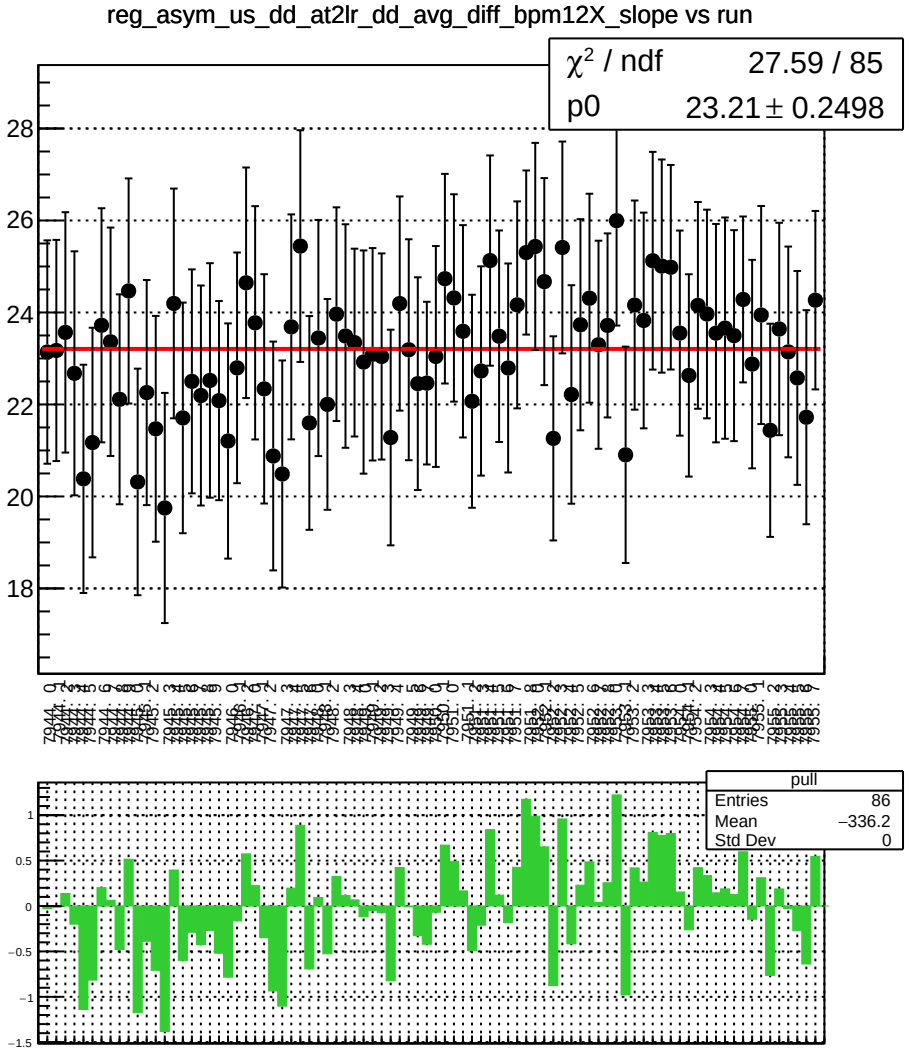

pull1D
Entries 86
Mean −0.008051
Std Dev 0.4638
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

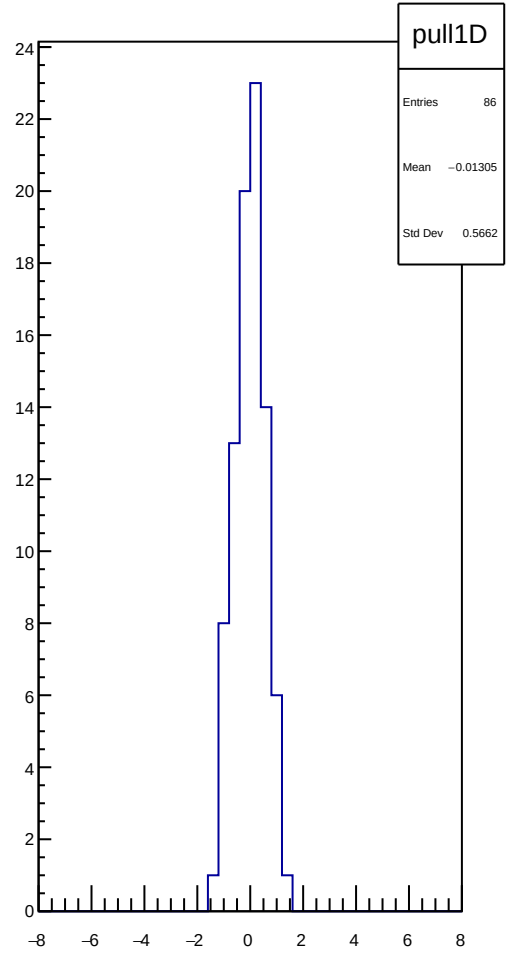

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.09 / 85
p0 −29.42 ± 7.721
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −598.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean 0.001613
Std Dev 0.4325
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

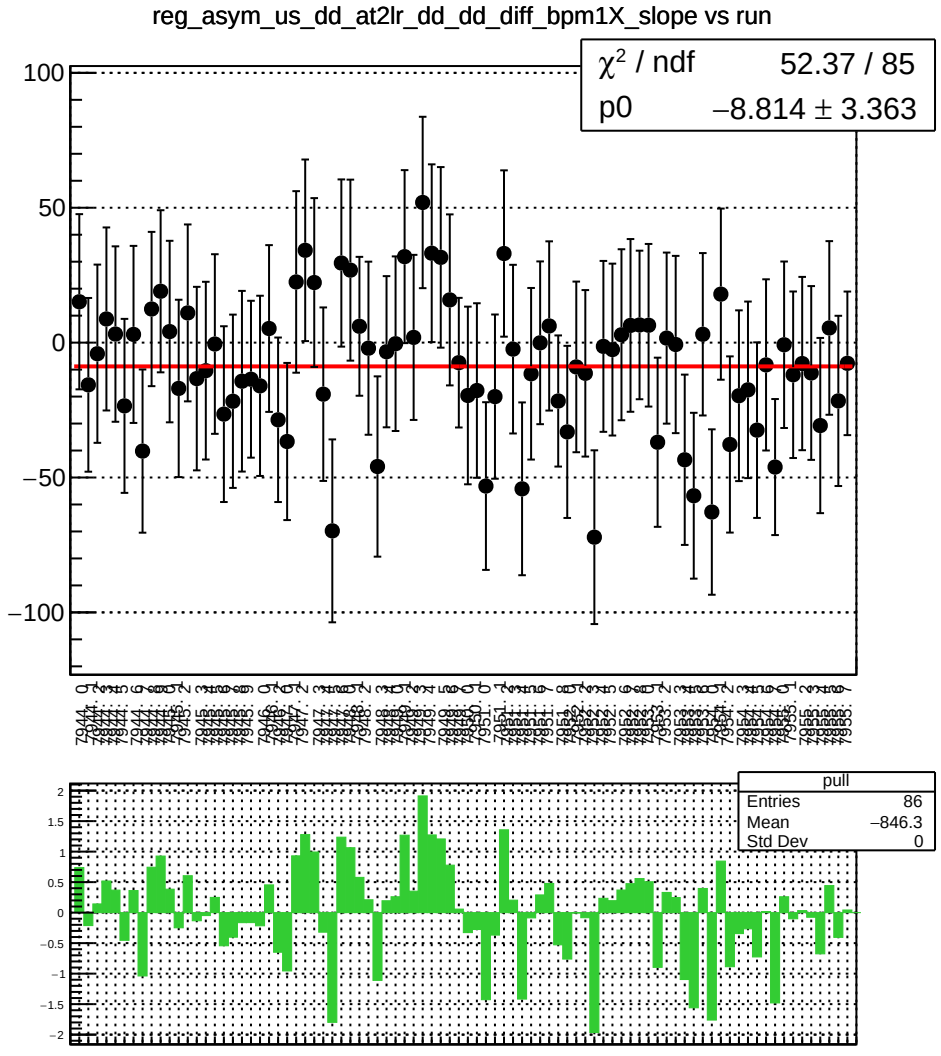

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.95 / 85
p0 −133.7 ± 6.642
0
−50
−100
−150
−200
−250
pull
Entries 86
Mean −249.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 86
Mean 0.006575
Std Dev 0.4568
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

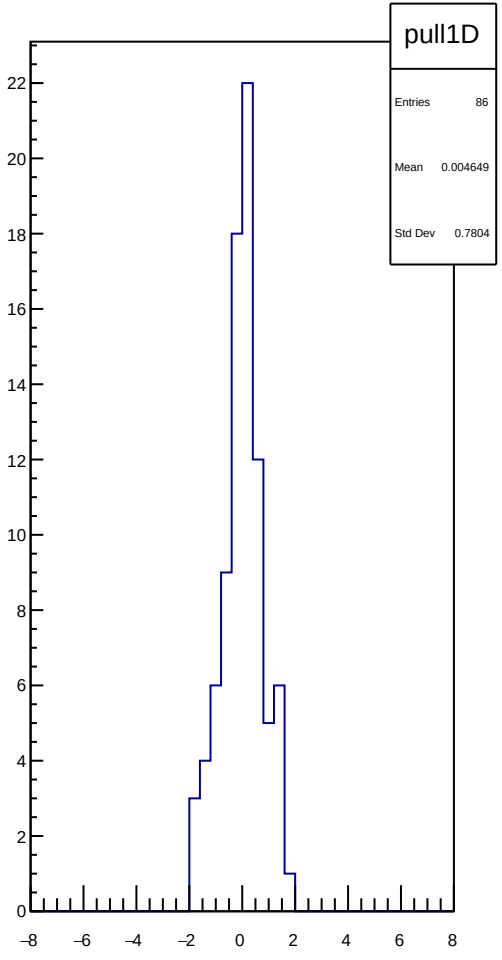

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.21 / 85
p0 37.55 ± 8.876
pull
Entries 86
Mean −736.6
Std Dev 0

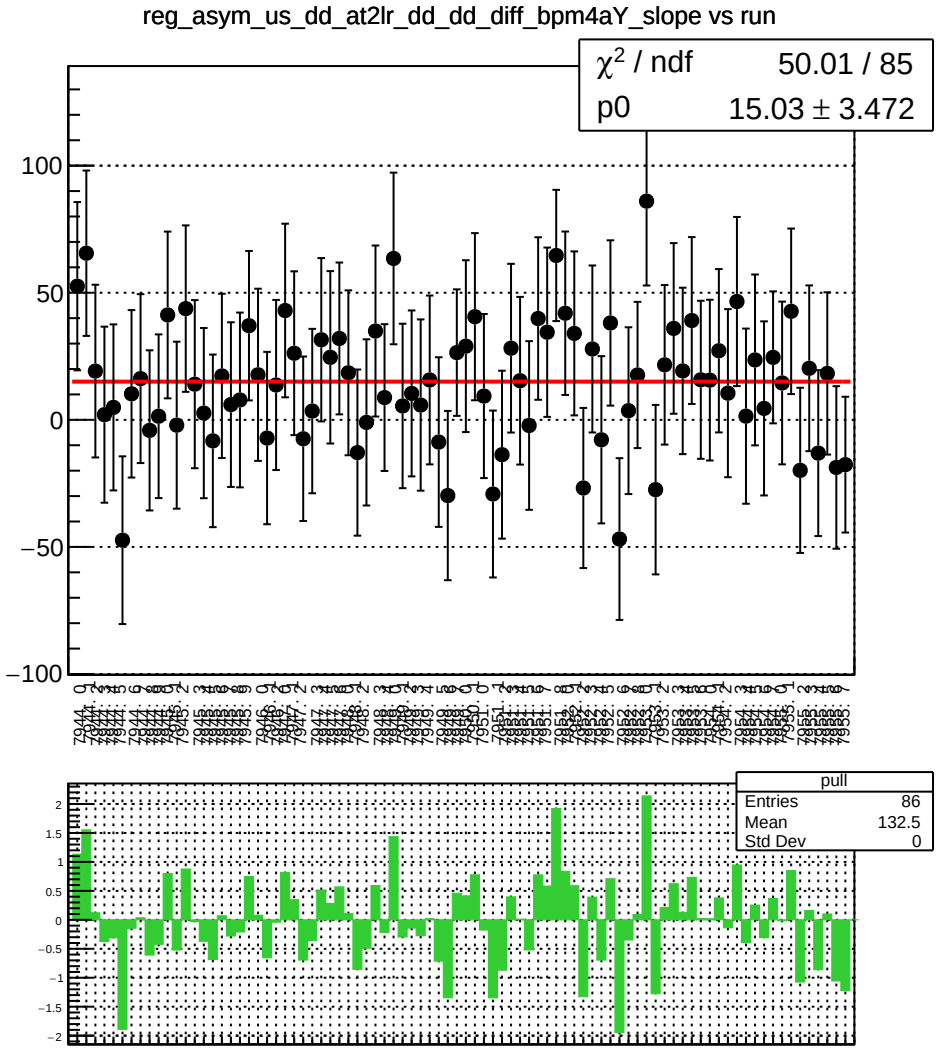

pull1D
Entries 86
Mean −0.001215
Std Dev 0.4342

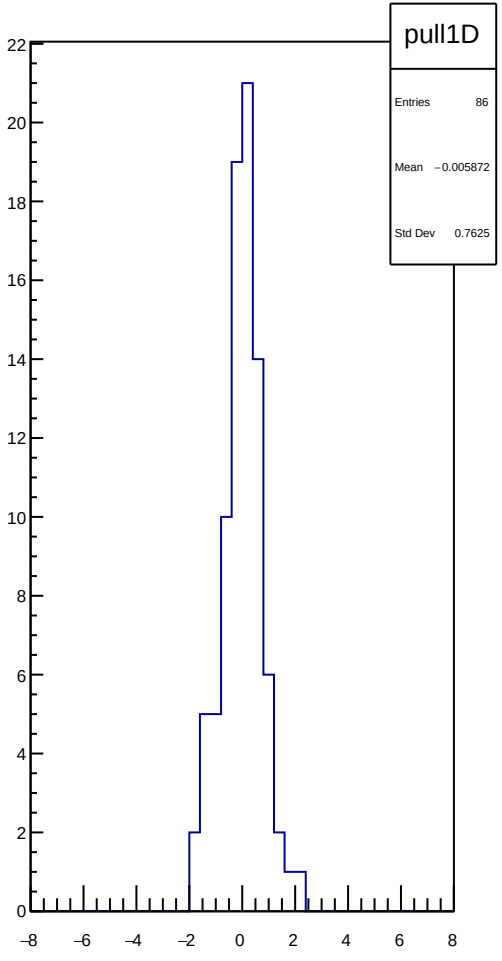

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.59 / 85
p0 23.21 ± 0.2498
pull
Entries 86
Mean −336.2
Std Dev 0

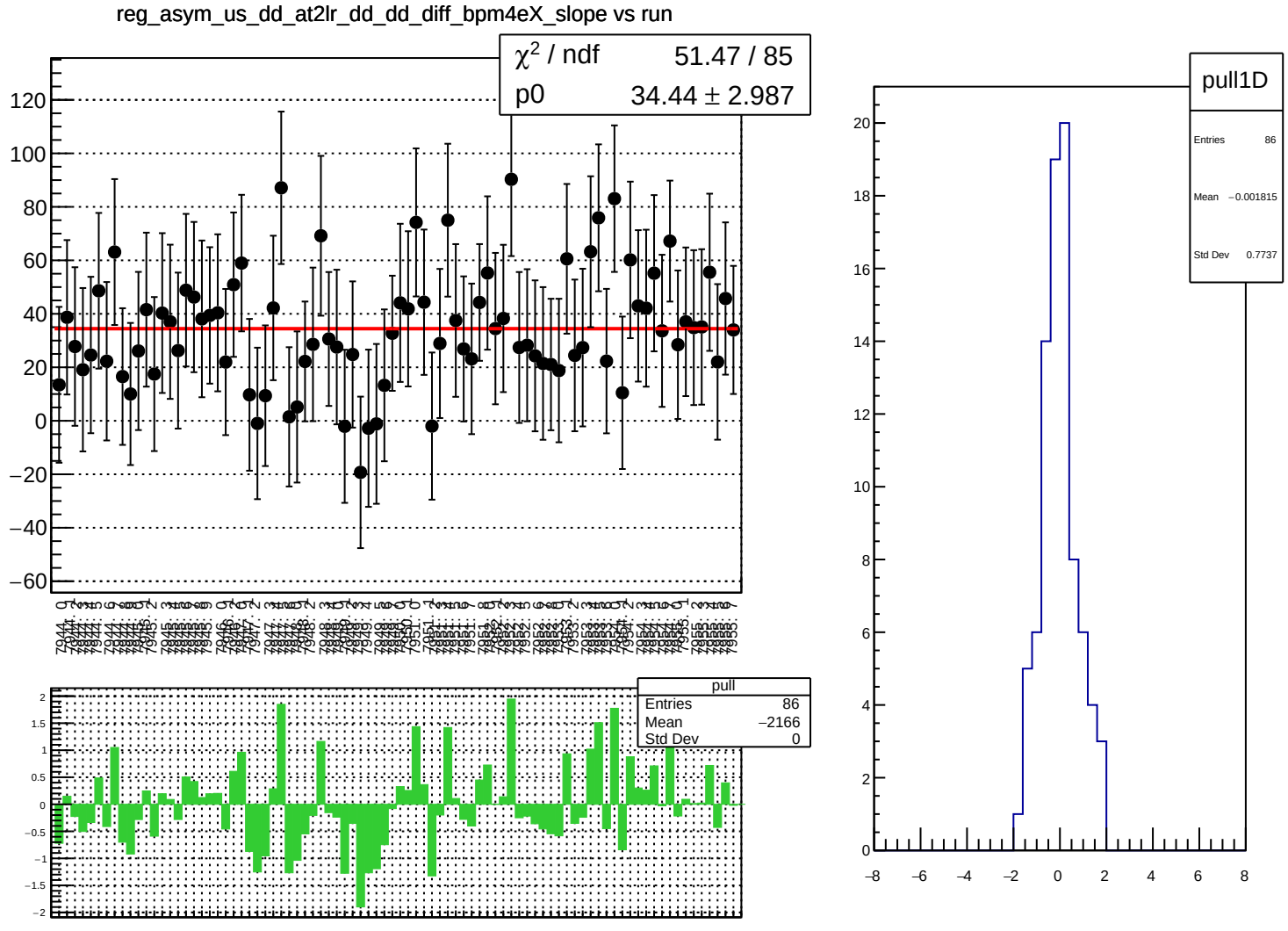

pull1D
Entries 86
Mean −0.01305
Std Dev 0.5662

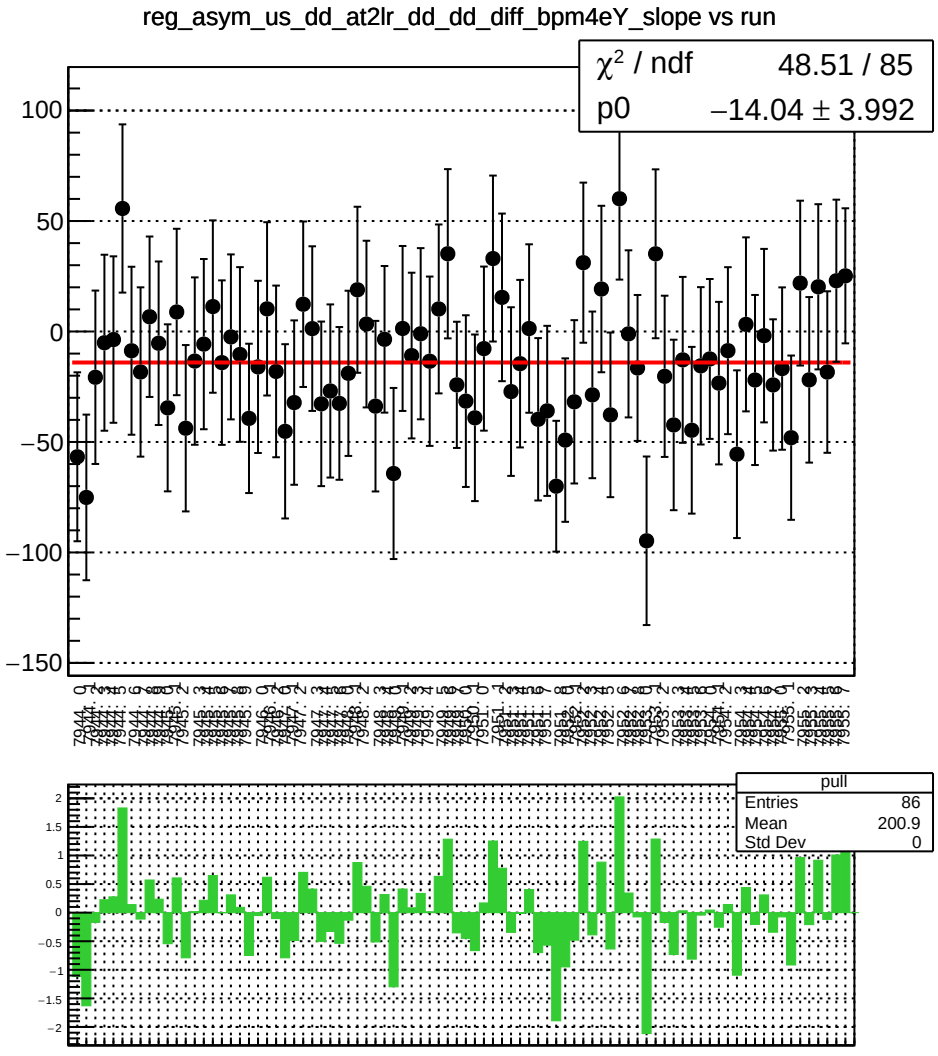

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 52.37 / 85
p0 −8.814 ± 3.363
pull
Entries 86
Mean −846.3
Std Dev 0

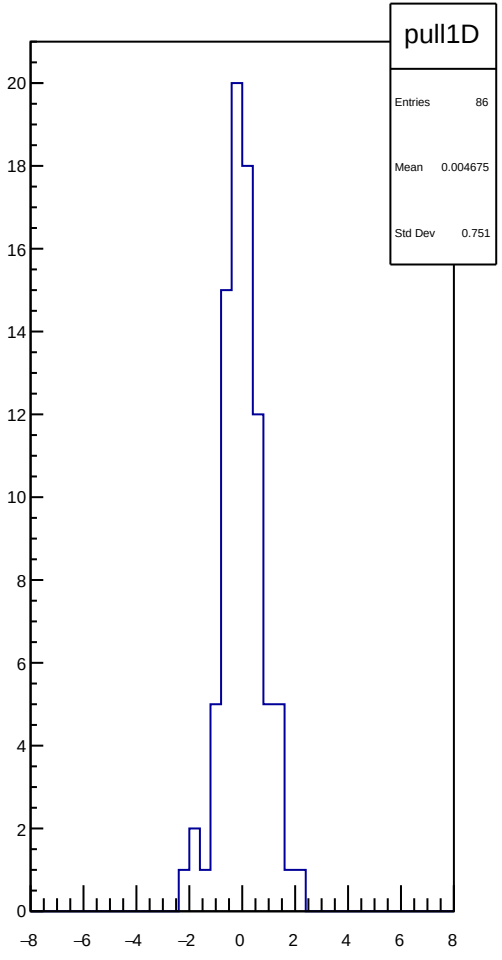

pull1D
Entries 86
Mean 0.004649
Std Dev 0.7804

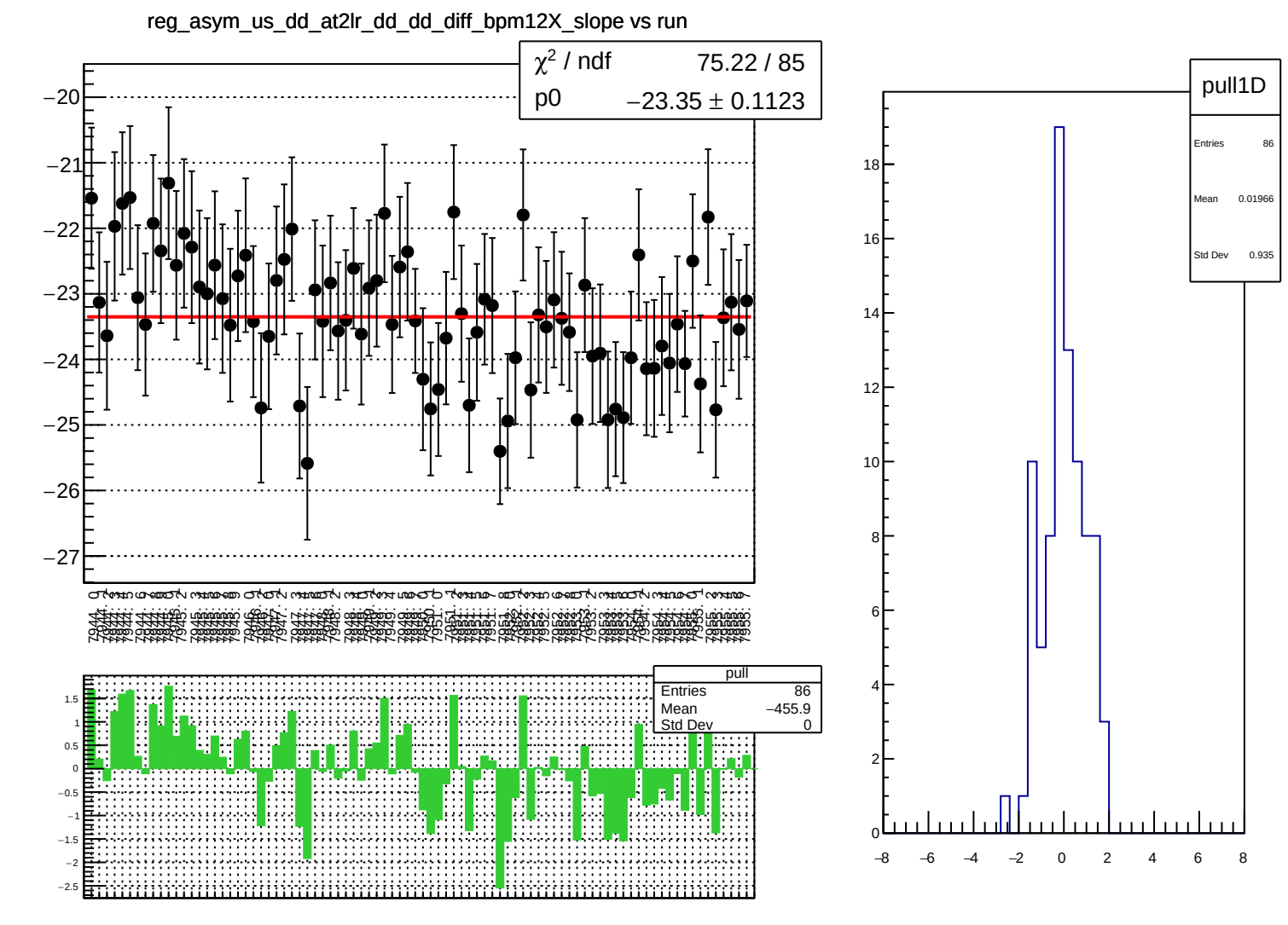

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.01 / 85
p0 15.03 ± 3.472
pull
Entries 86
Mean 132.5
Std Dev 0

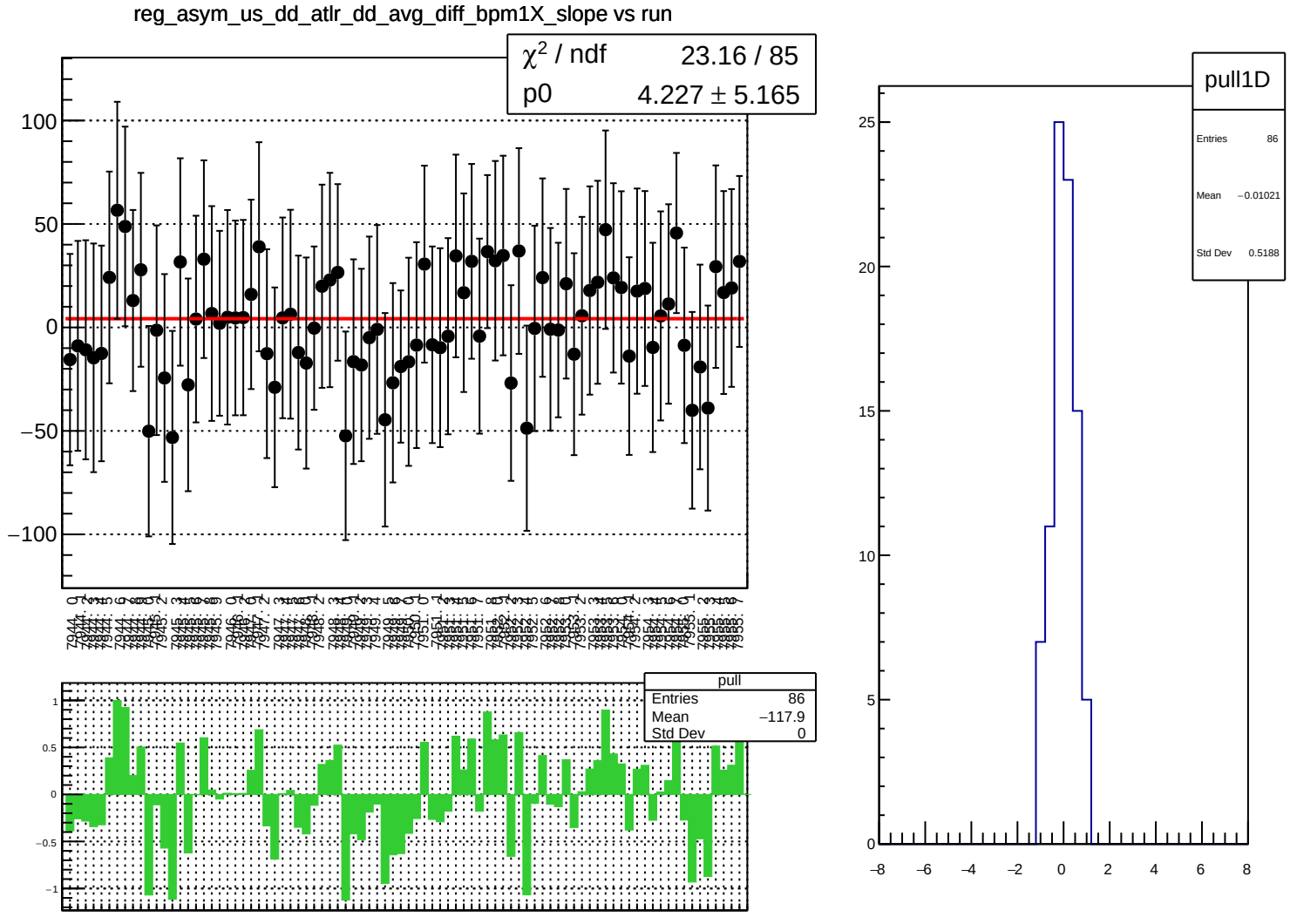

pull1D
Entries 86
Mean −0.005872
Std Dev 0.7625

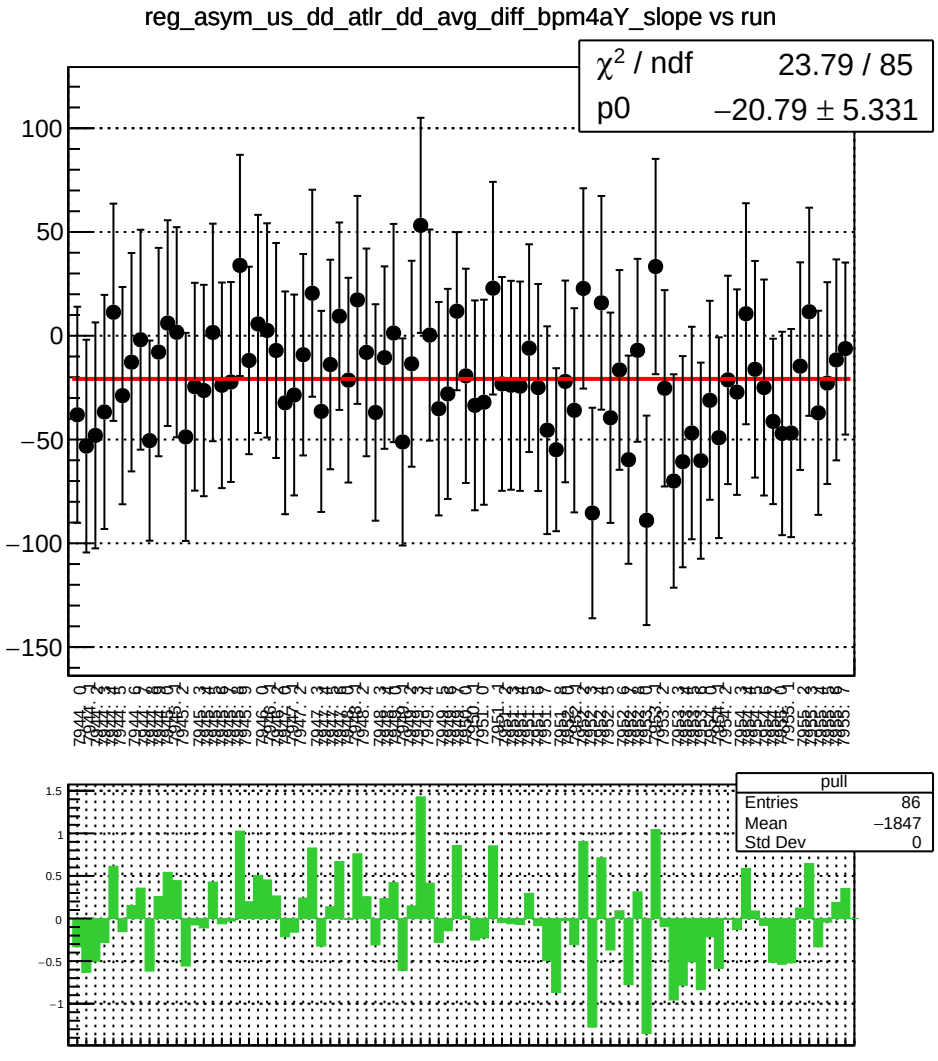

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.47 / 85
p0 34.44 ± 2.987
pull
Entries 86
Mean −2166
Std Dev 0
pull1D
Entries 86
Mean −0.001815
Std Dev 0.7737

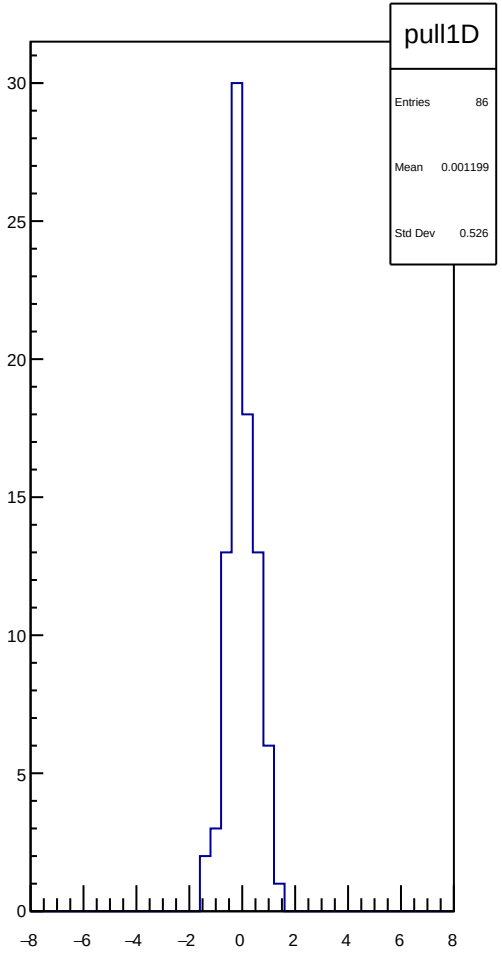

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.51 / 85
p0 −14.04 ± 3.992
pull
Entries 86
Mean 200.9
Std Dev 0

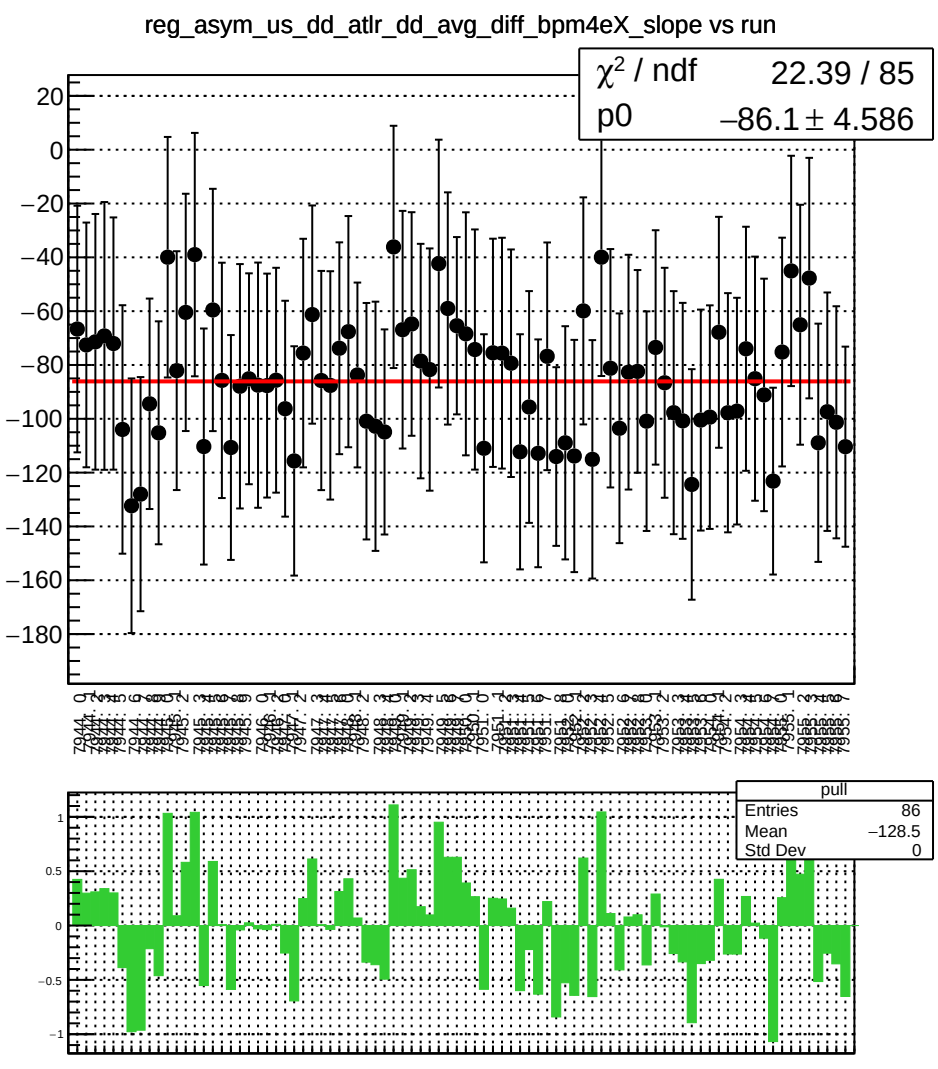

pull1D
Entries 86
Mean 0.004675
Std Dev 0.751

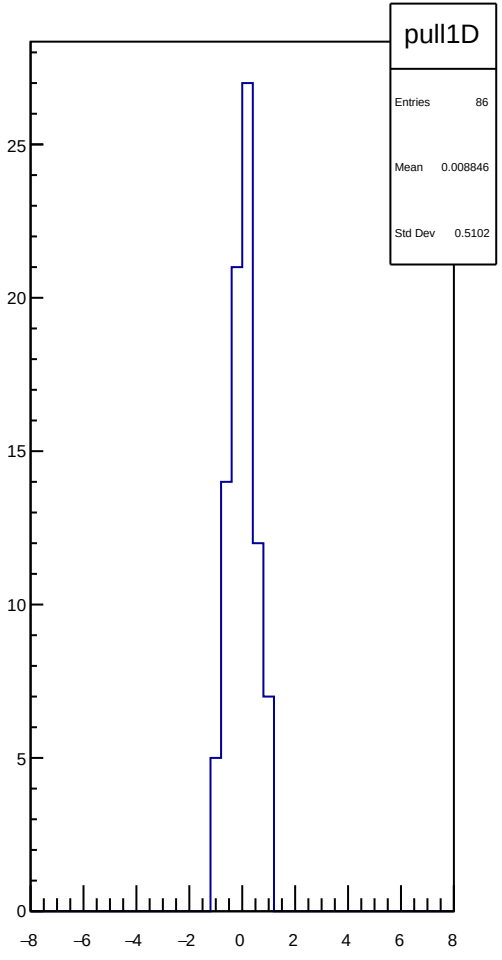

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 75.22 / 85
p0 −23.35 ± 0.1123
pull
Entries 86
Mean −455.9
Std Dev 0
pull1D
Entries 86
Mean 0.01966
Std Dev 0.935

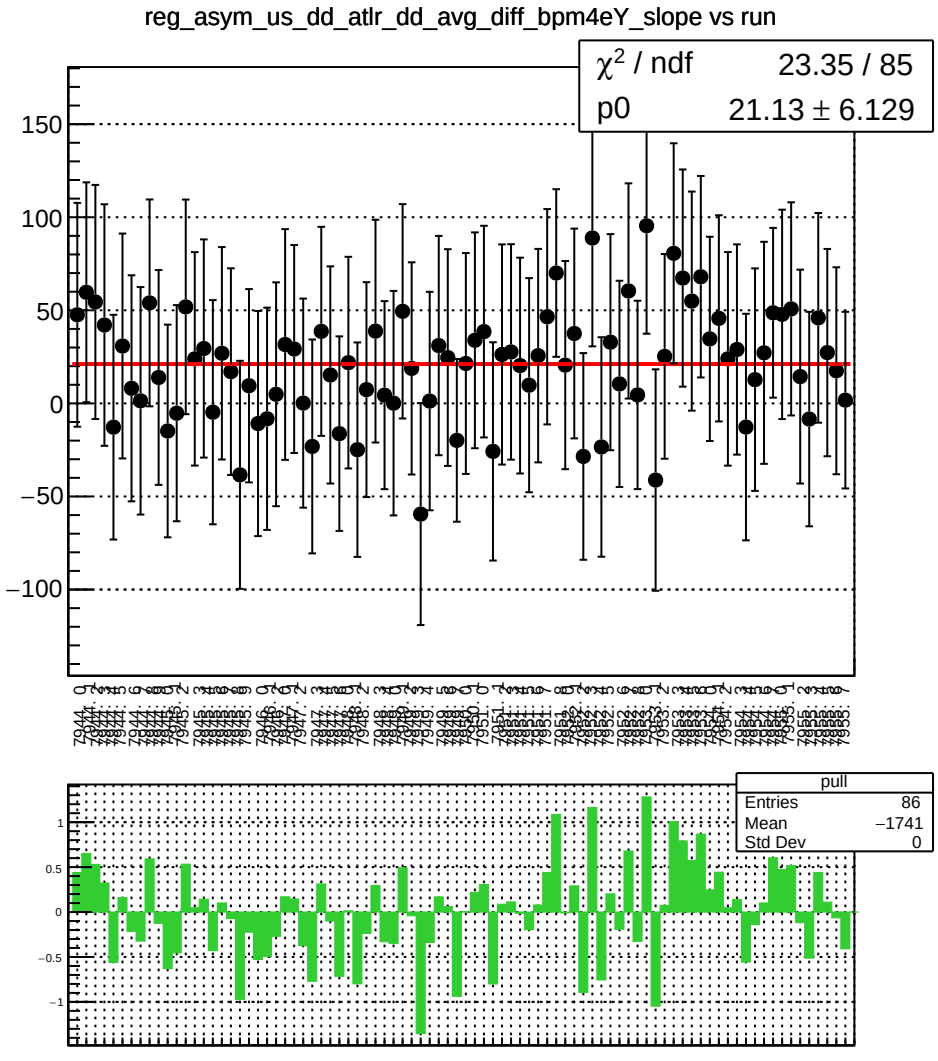

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 23.16 / 85
p0 4.227 ± 5.165
100
50
0
−50
−100
pull
Entries 86
Mean −117.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.01021
Std Dev 0.5188
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

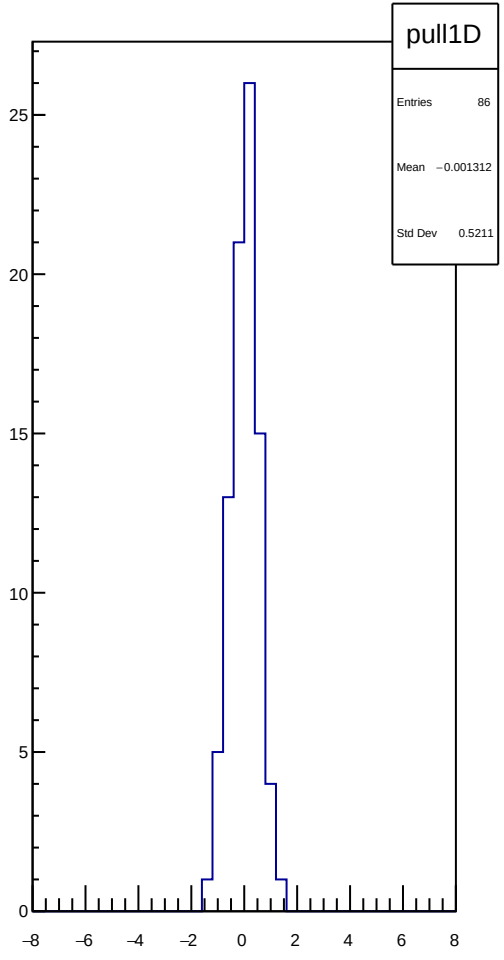

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.79 / 85
p0 −20.79 ± 5.331
pull
Entries 86
Mean −1847
Std Dev 0

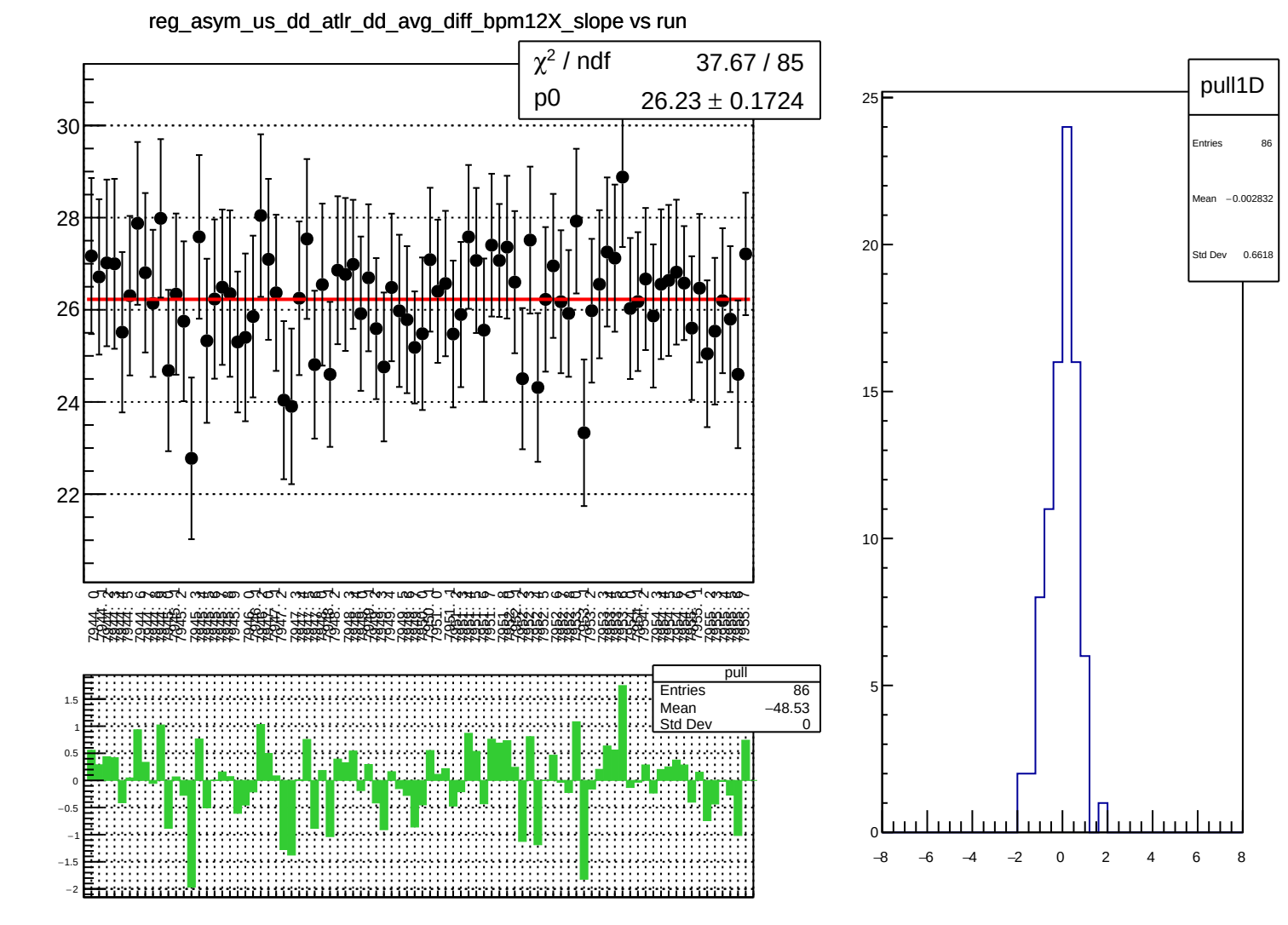

pull1D
Entries 86
Mean 0.001199
Std Dev 0.526

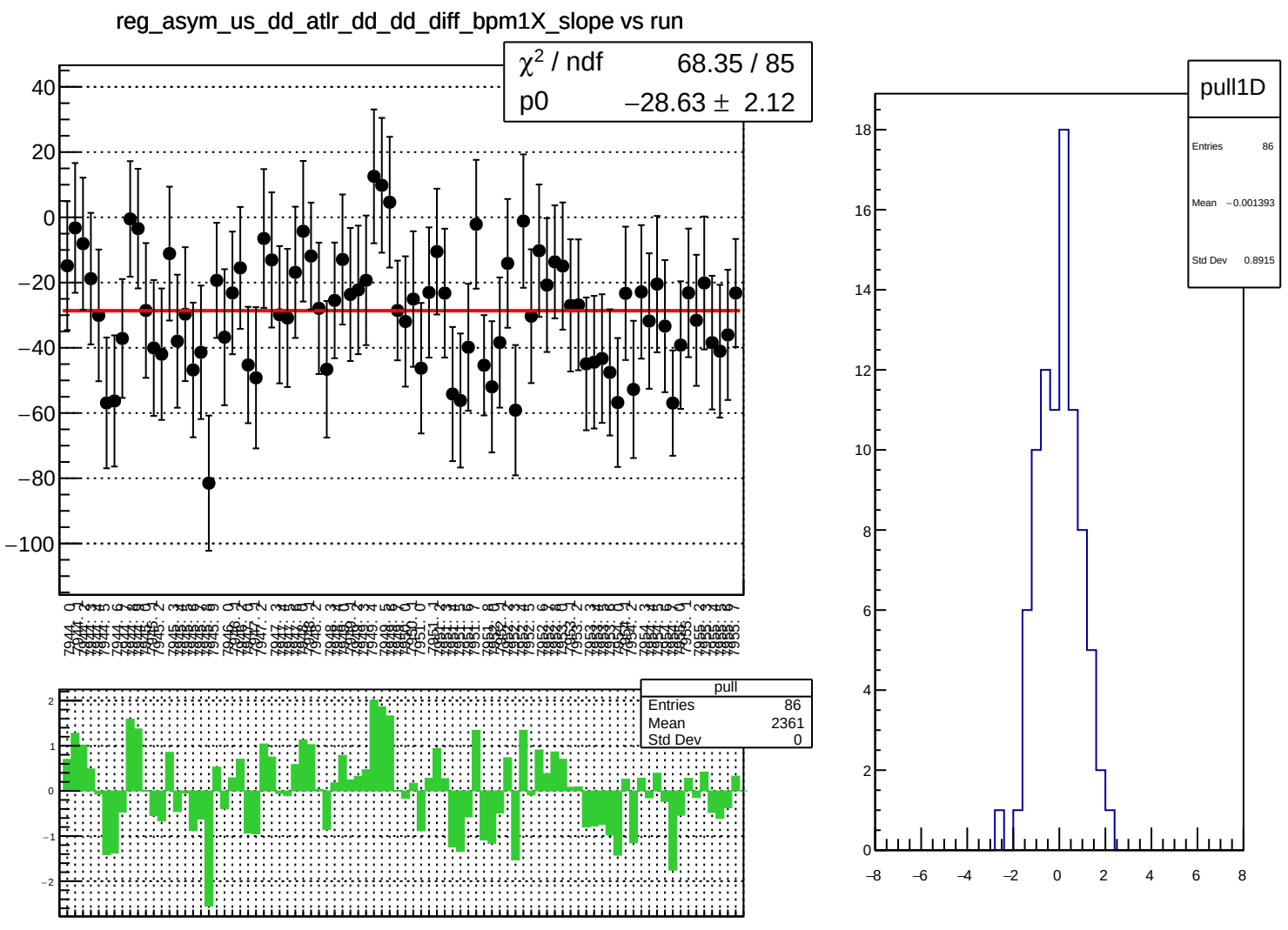

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.39 / 85
p0 −86.1 ± 4.586
pull
Entries 86
Mean −128.5
Std Dev 0

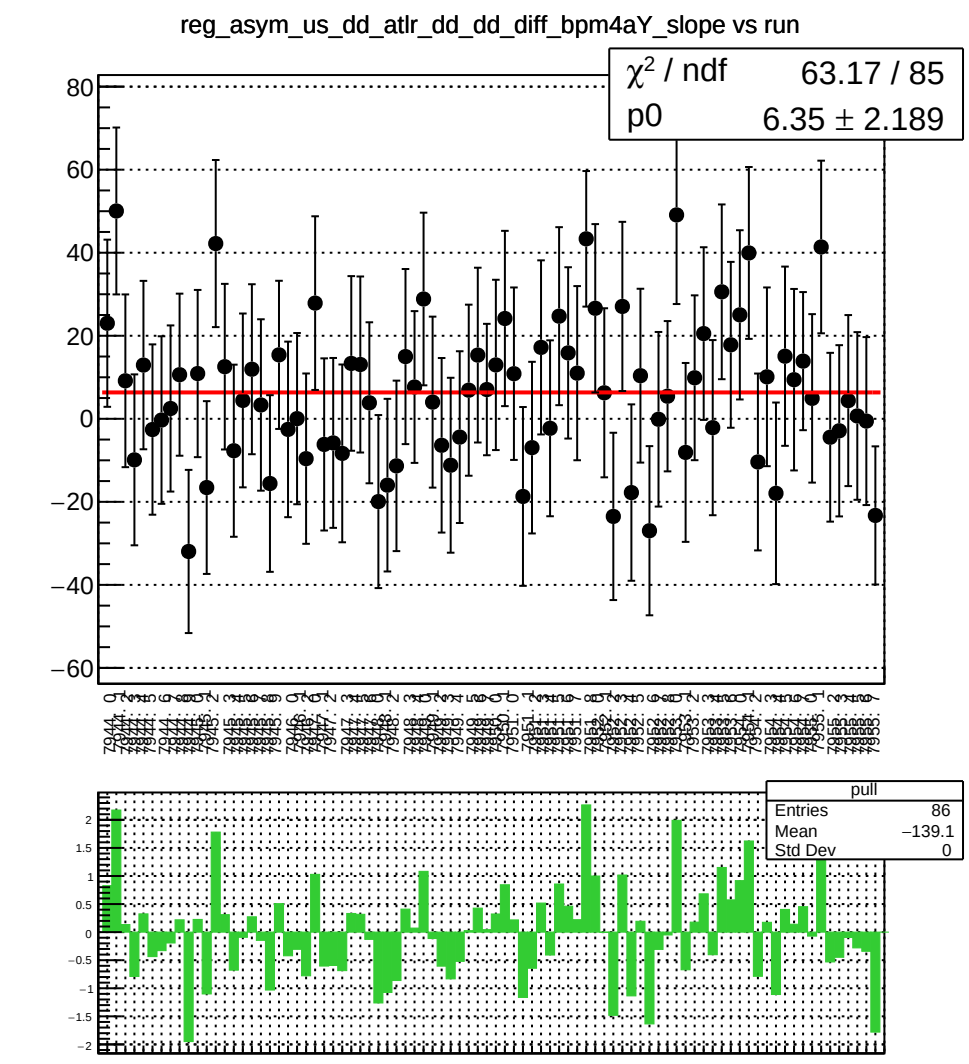

pull1D
Entries 86
Mean 0.008846
Std Dev 0.5102

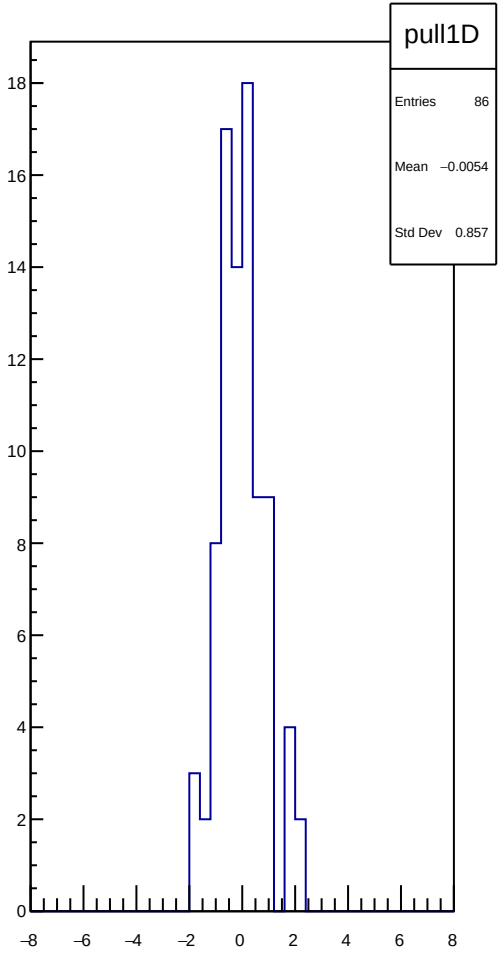

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.35 / 85
p0 21.13 ± 6.129
150
100
50
0
−50
−100
pull
Entries 86
Mean −1741
Std Dev 0
1
0.5
0
−0.5
−1

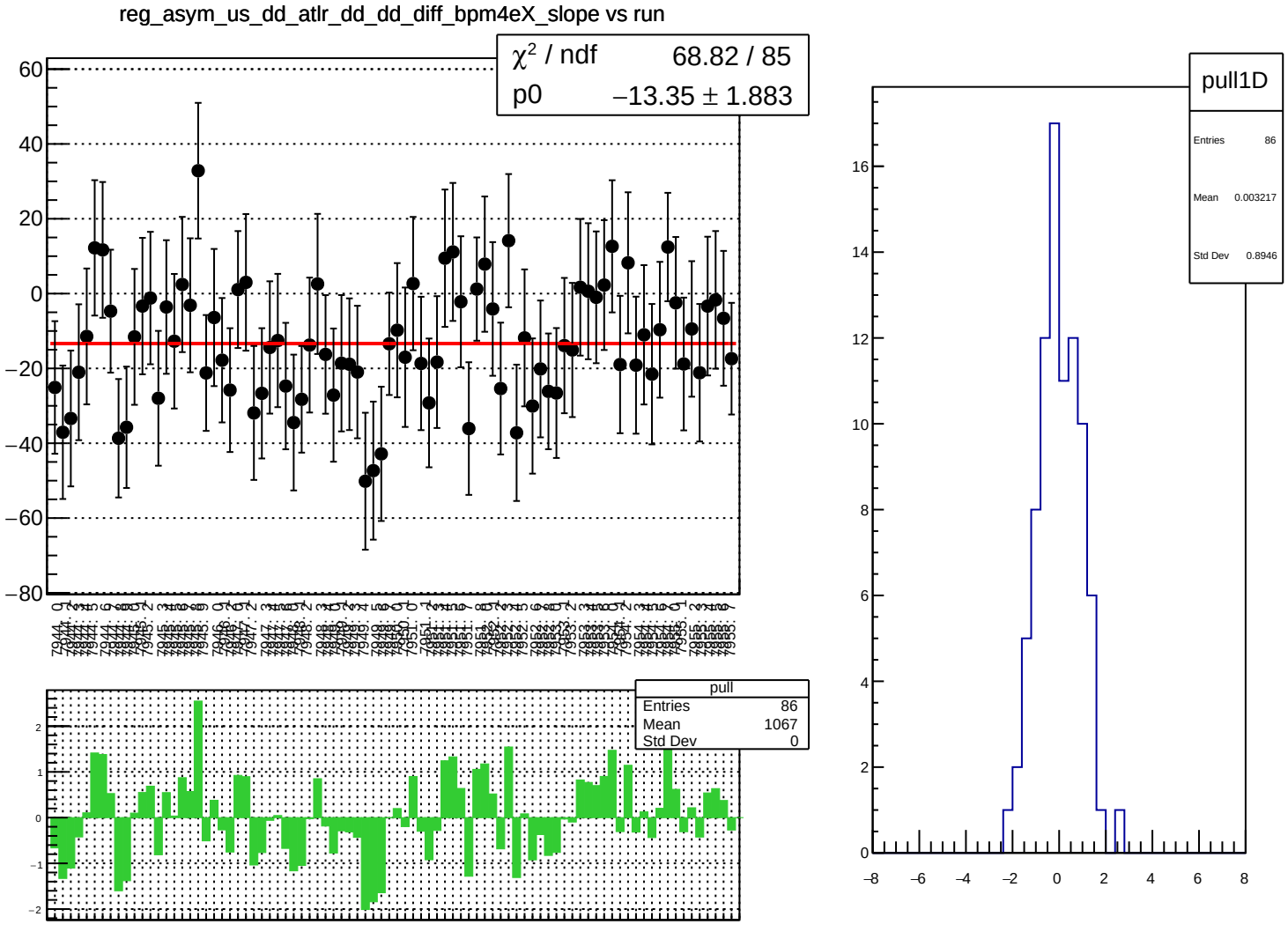

pull1D
Entries 86
Mean −0.001312
Std Dev 0.5211
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

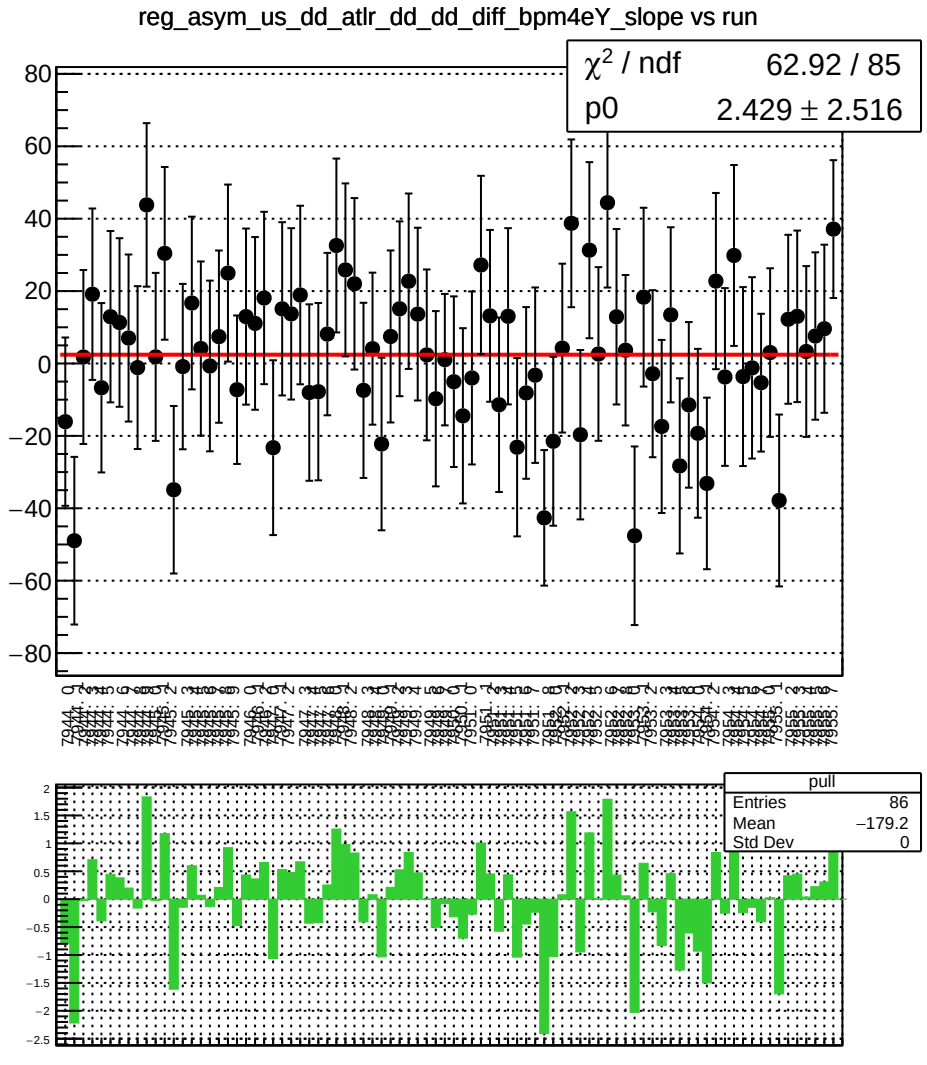

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 37.67 / 85
p0 26.23 ± 0.1724
pull
Entries 86
Mean −48.53
Std Dev 0
pull1D
Entries 86
Mean −0.002832
Std Dev 0.6618

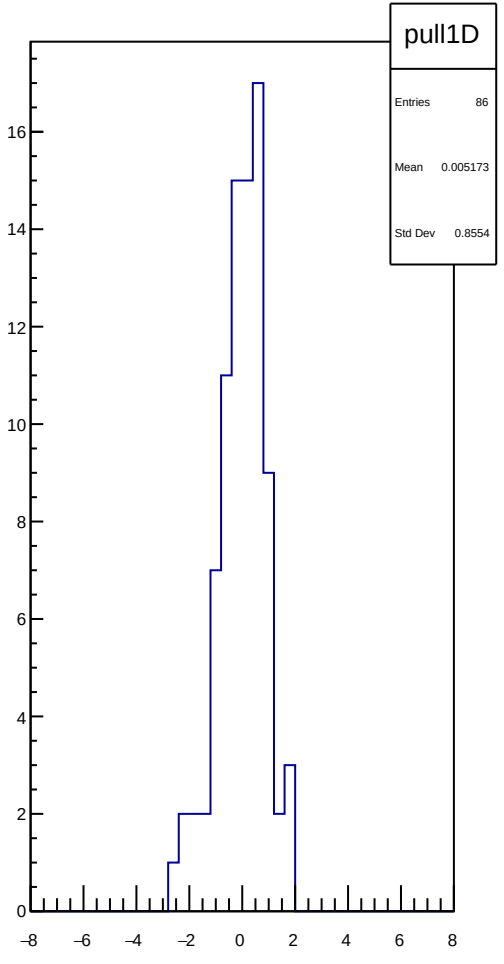

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 68.35 / 85
p0 −28.63 ± 2.12
pull
Entries 86
Mean 2361
Std Dev 0
pull1D
Entries 86
Mean −0.001393
Std Dev 0.8915

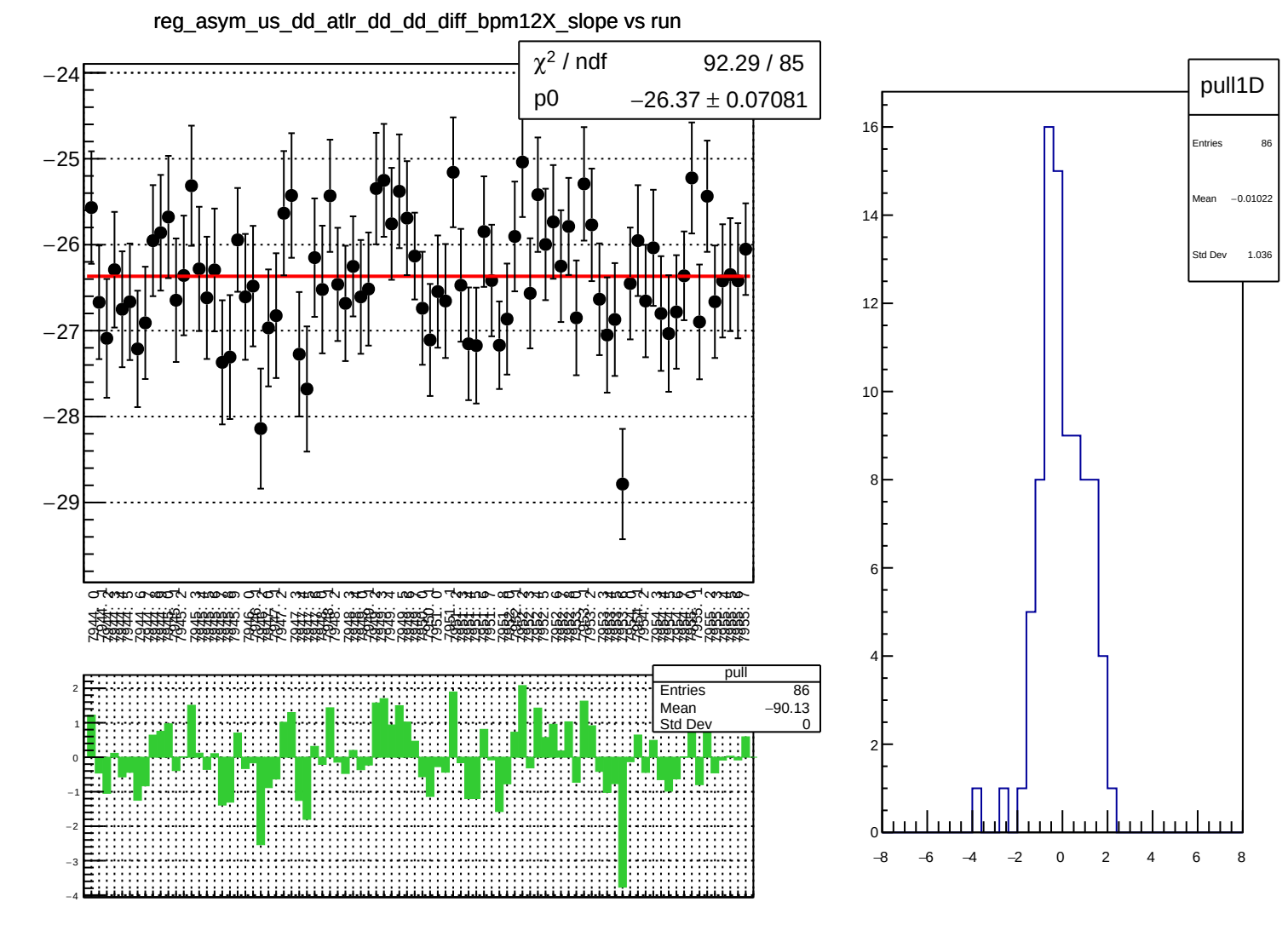

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.17 / 85
p0 6.35 ± 2.189
pull
Entries 86
Mean −139.1
Std Dev 0

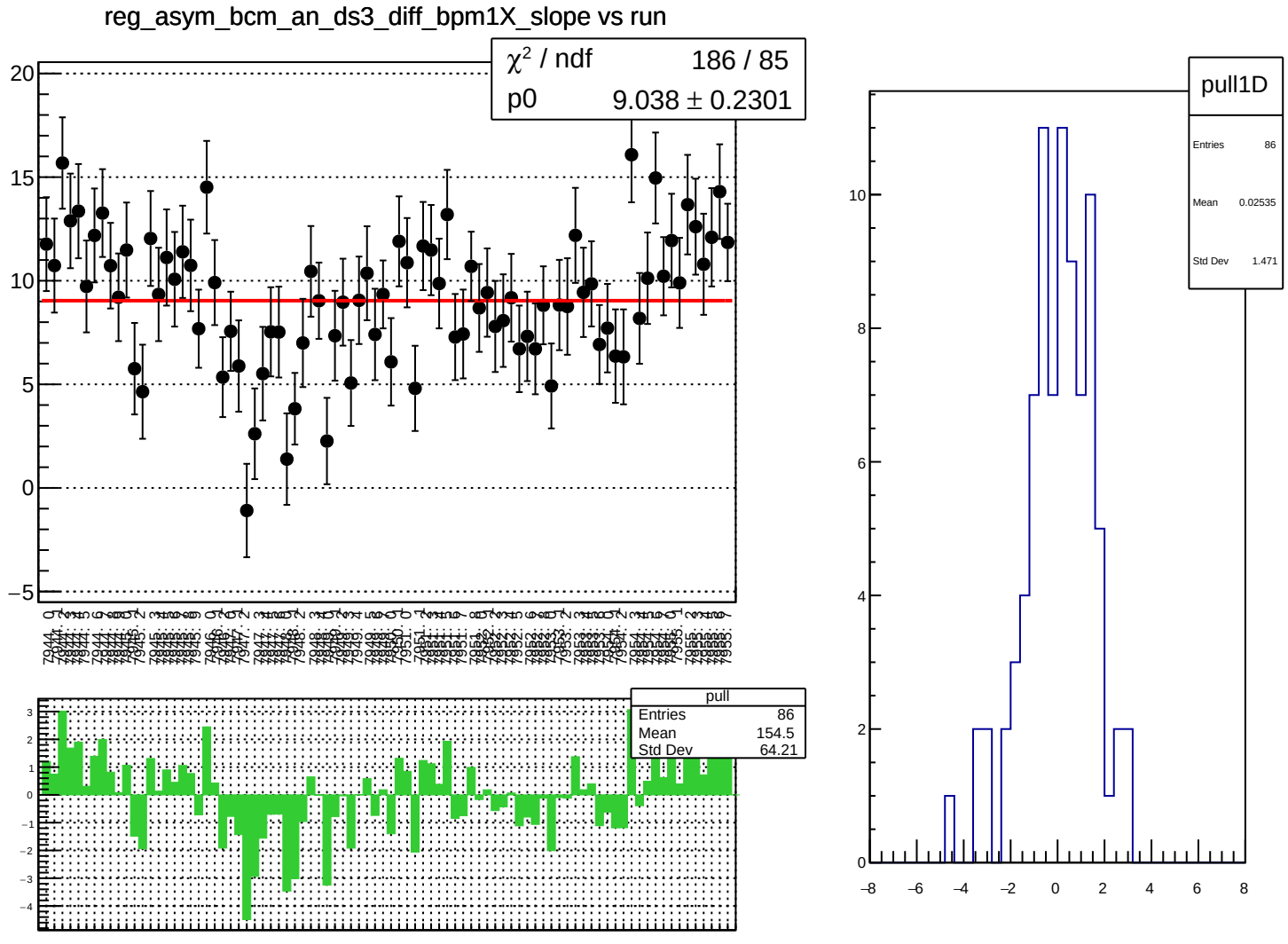

pull1D
Entries 86
Mean −0.0054
Std Dev 0.857

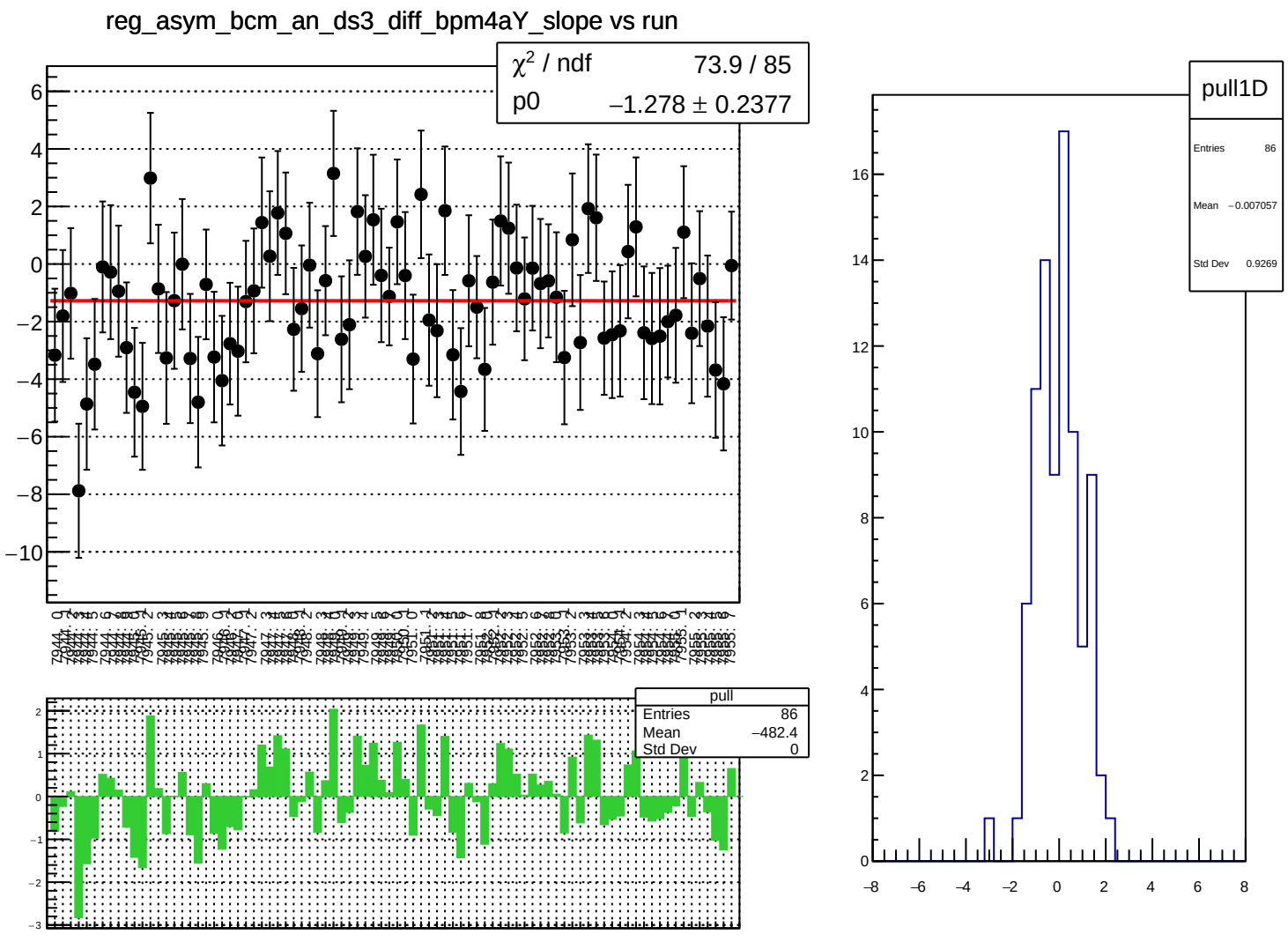

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.82 / 85
p0 −13.35 ± 1.883
pull
Entries 86
Mean 1067
Std Dev 0
pull1D
Entries 86
Mean 0.003217
Std Dev 0.8946

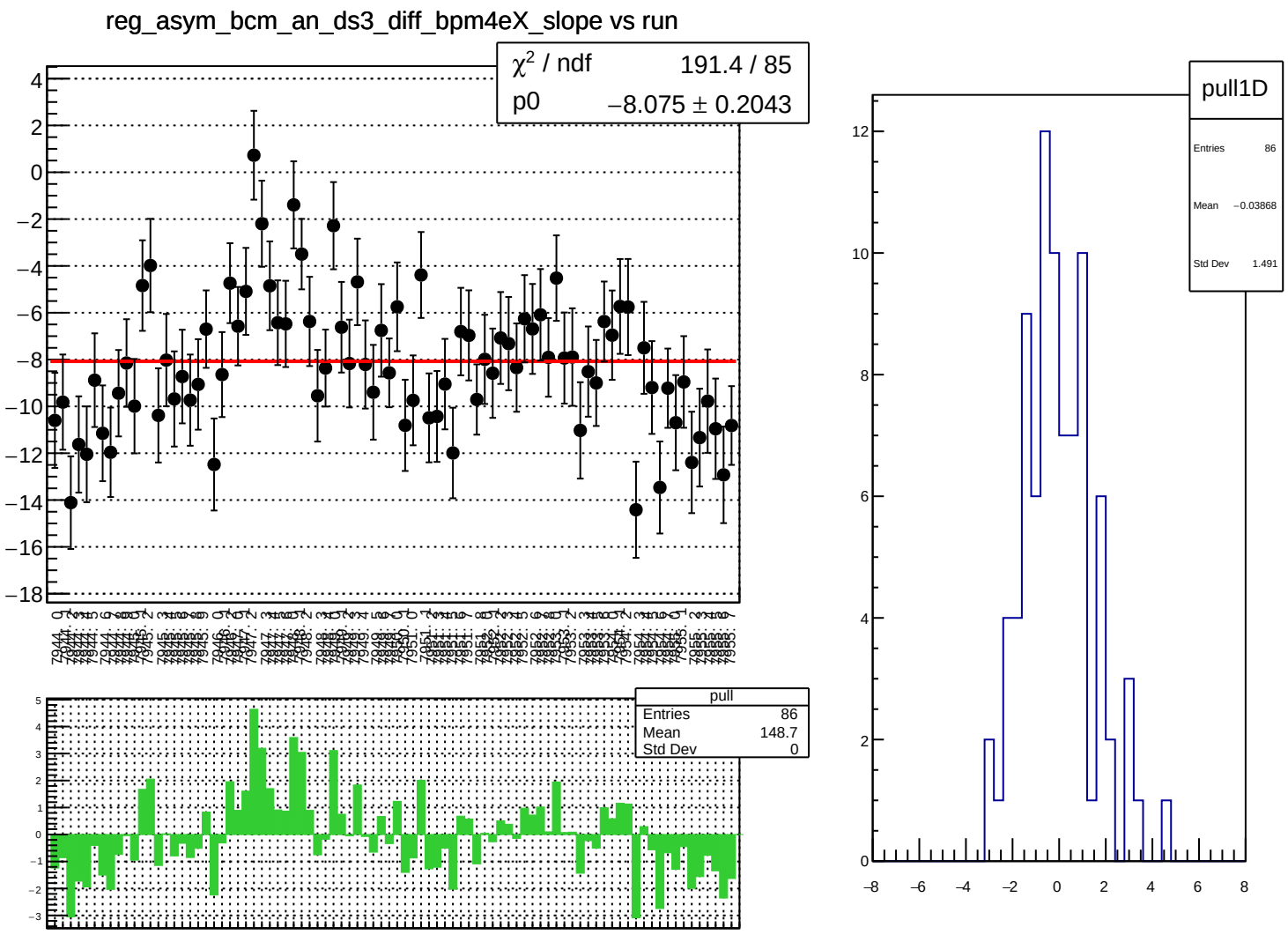

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.92 / 85
p0 2.429 ± 2.516
pull
Entries 86
Mean −179.2
Std Dev 0

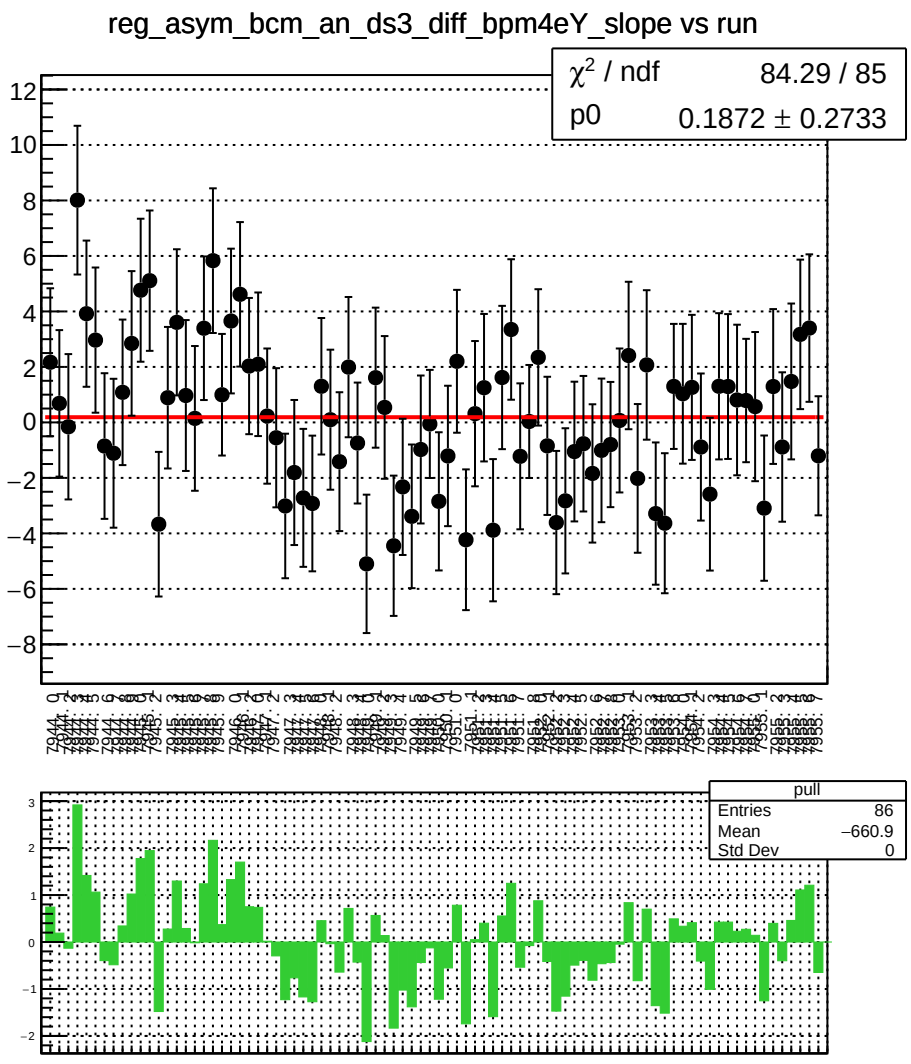

pull1D
Entries 86
Mean 0.005173
Std Dev 0.8554

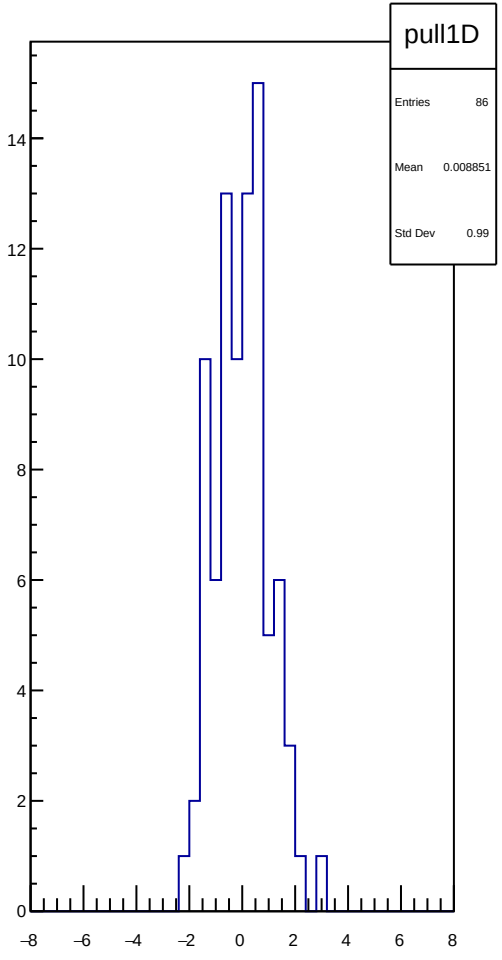

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 92.29 / 85
p0 −26.37 ± 0.07081
pull
Entries 86
Mean −90.13
Std Dev 0
pull1D
Entries 86
Mean −0.01022
Std Dev 1.036

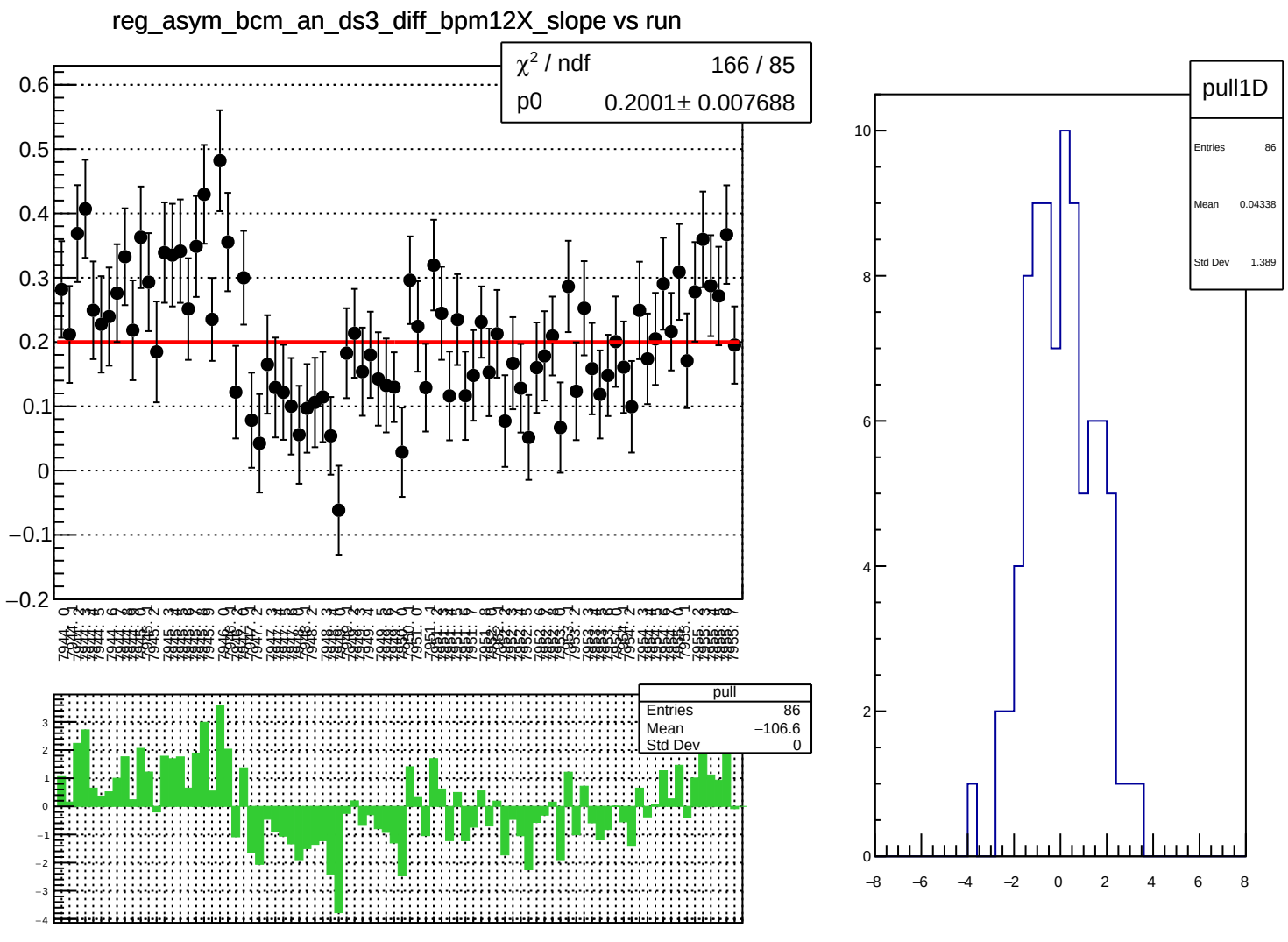

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 186 / 85
p0 9.038 ± 0.2301
pull
Entries 86
Mean 154.5
Std Dev 64.21
pull1D
Entries 86
Mean 0.02535
Std Dev 1.471

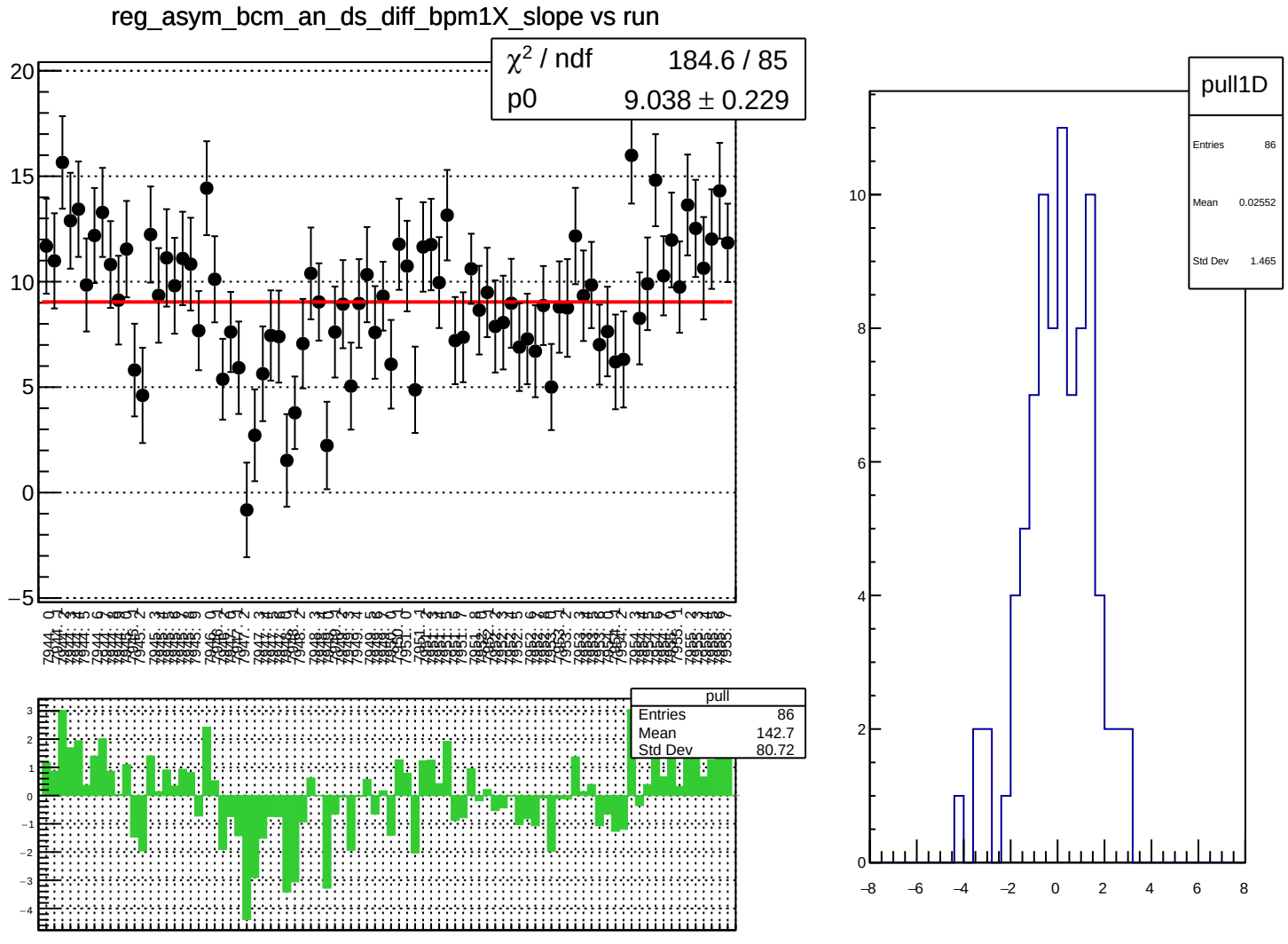

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 73.9 / 85
p0 −1.278 ± 0.2377
pull
Entries 86
Mean −482.4
Std Dev 0
pull1D
Entries 86
Mean −0.007057
Std Dev 0.9269

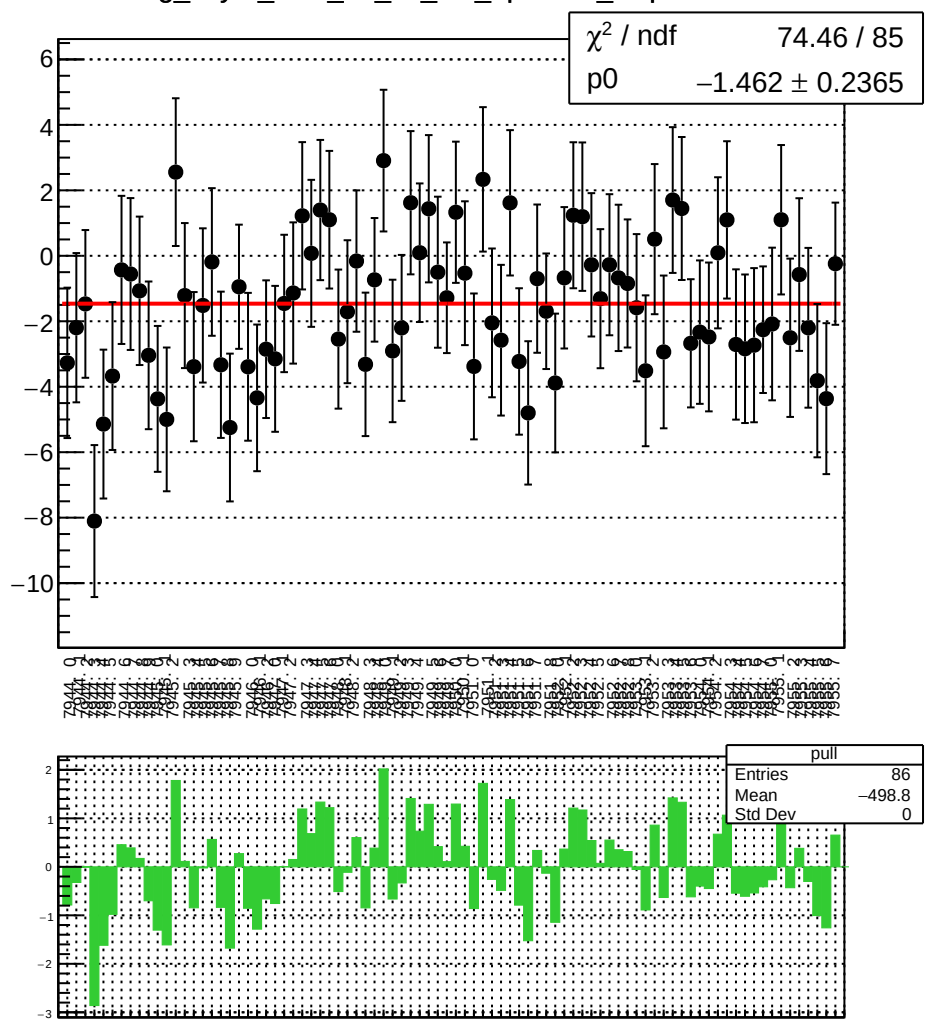

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 191.4 / 85
p0 −8.075 ± 0.2043
pull
Entries 86
Mean 148.7
Std Dev 0
pull1D
Entries 86
Mean −0.03868
Std Dev 1.491

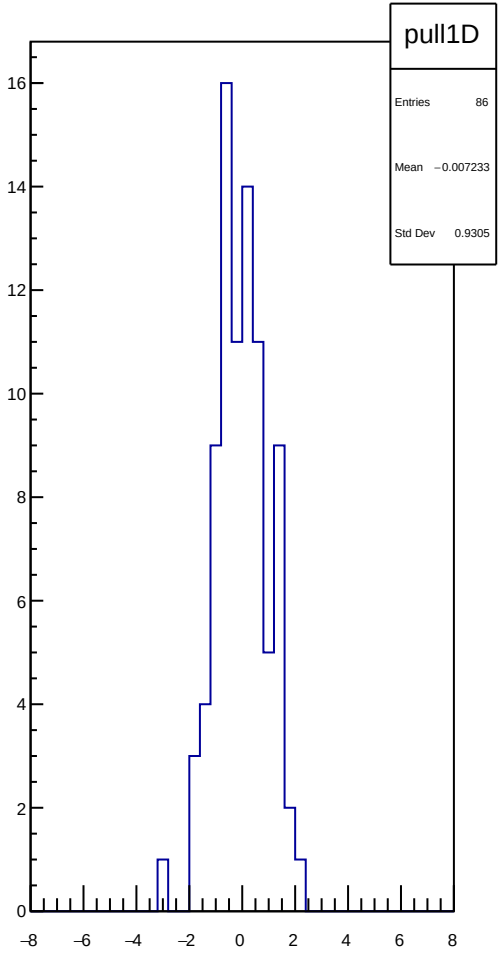

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 84.29 / 85
p0 0.1872 ± 0.2733
pull
Entries 86
Mean −660.9
Std Dev 0

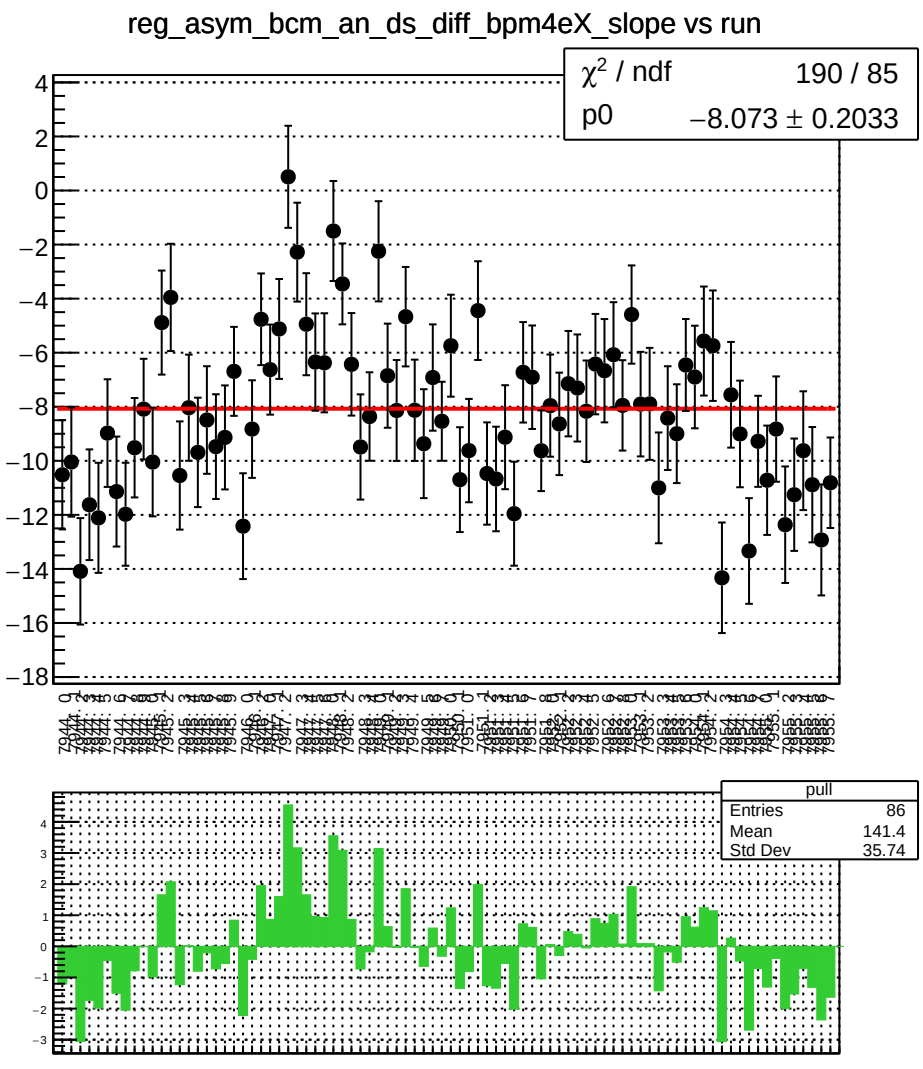

pull1D
Entries 86
Mean 0.008851
Std Dev 0.99

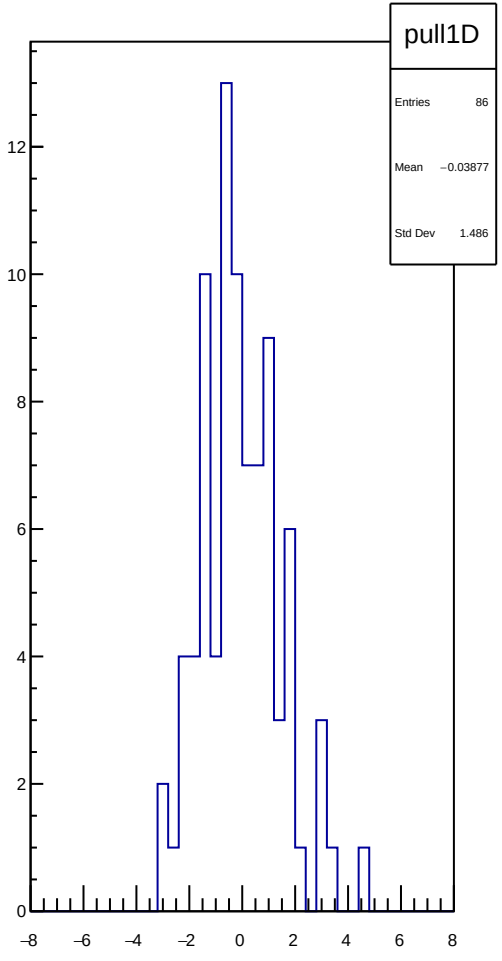

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 166 / 85
p0 0.2001± 0.007688
pull
Entries 86
Mean −106.6
Std Dev 0
pull1D
Entries 86
Mean 0.04338
Std Dev 1.389

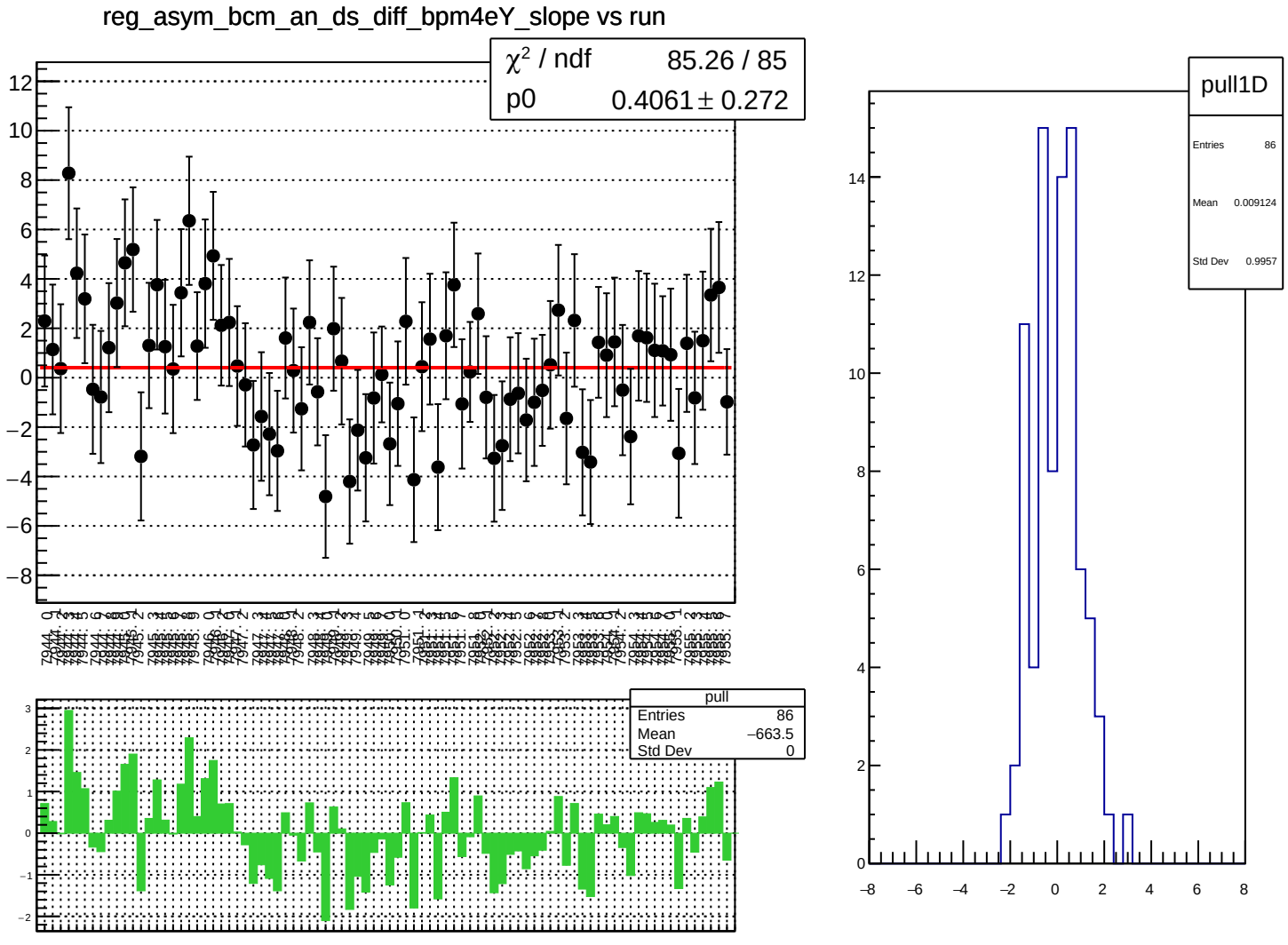

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 184.6 / 85
p0 9.038 ± 0.229
pull
Entries 86
Mean 142.7
Std Dev 80.72
pull1D
Entries 86
Mean 0.02552
Std Dev 1.465

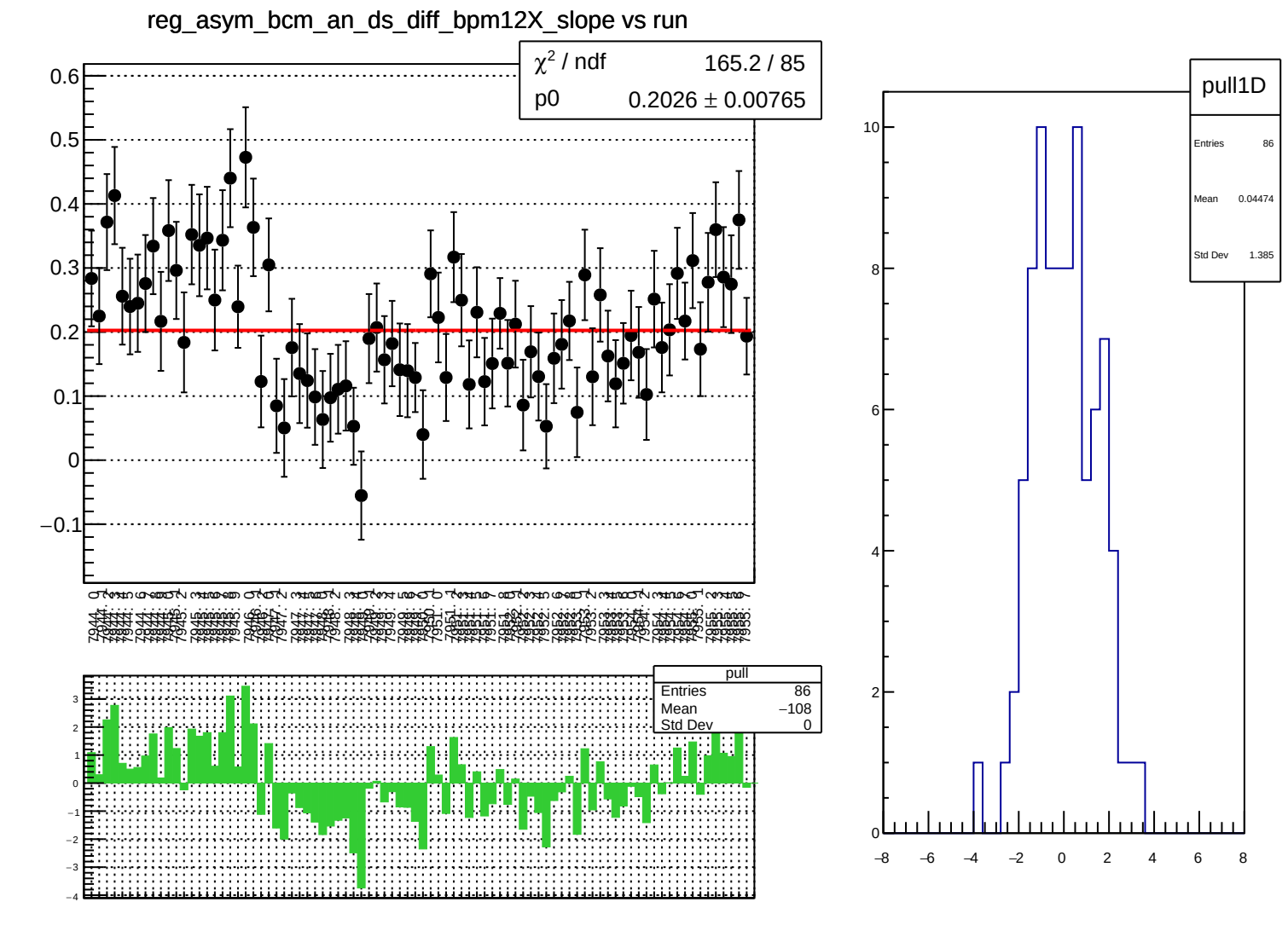

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 74.46 / 85
p0 −1.462 ± 0.2365
pull
Entries 86
Mean −498.8
Std Dev 0

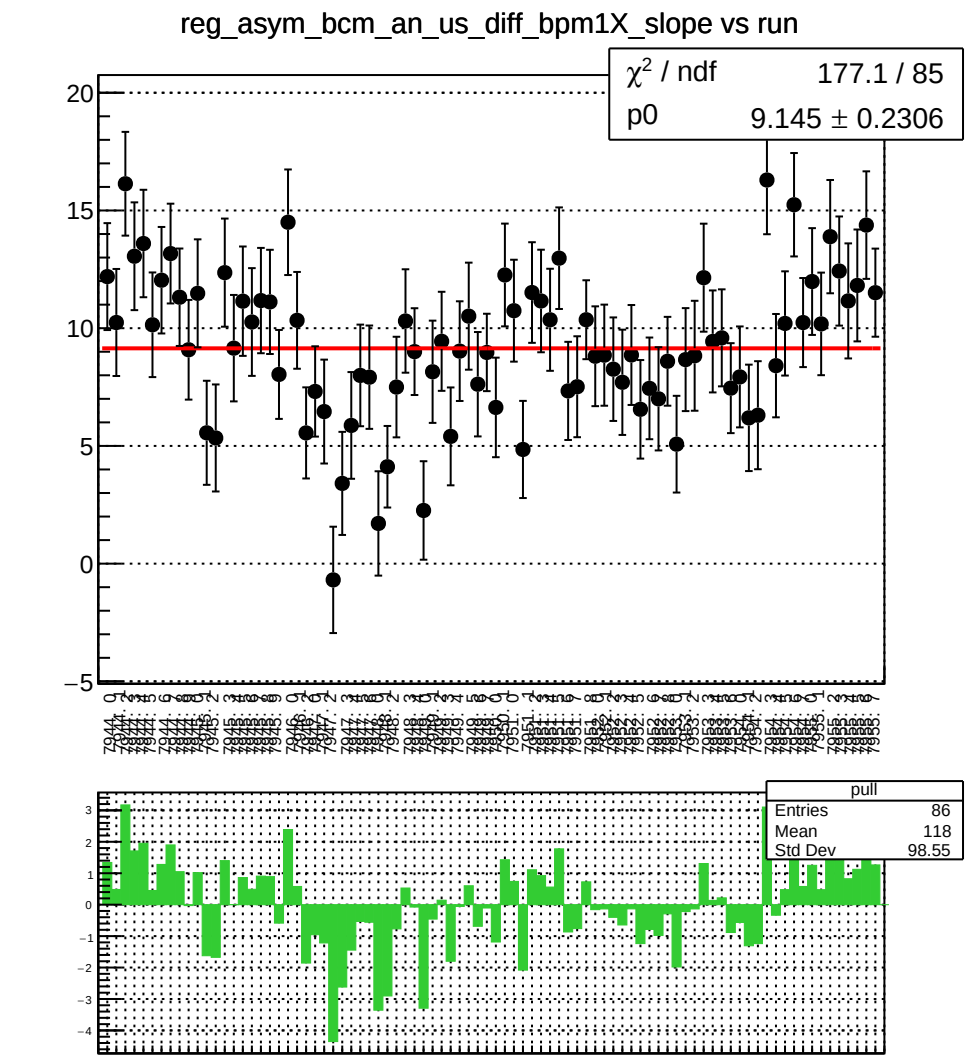

pull1D
Entries 86
Mean −0.007233
Std Dev 0.9305

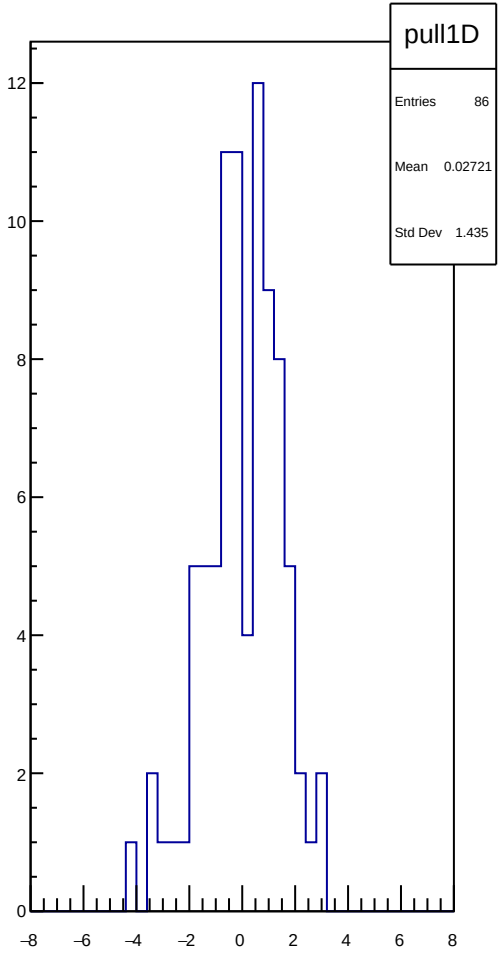

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 190 / 85
p0 −8.073 ± 0.2033
pull
Entries 86
Mean 141.4
Std Dev 35.74

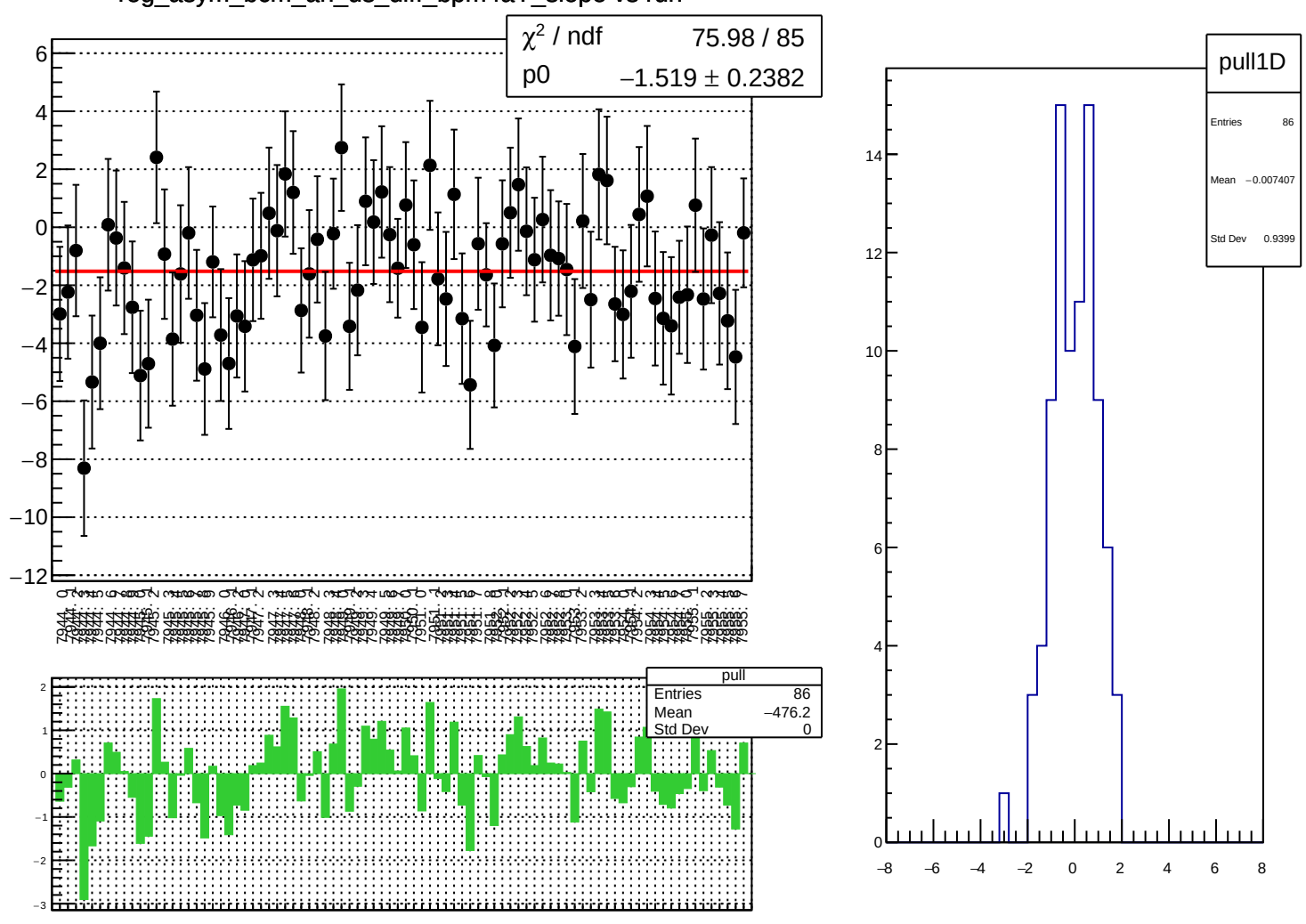

pull1D
Entries 86
Mean −0.03877
Std Dev 1.486

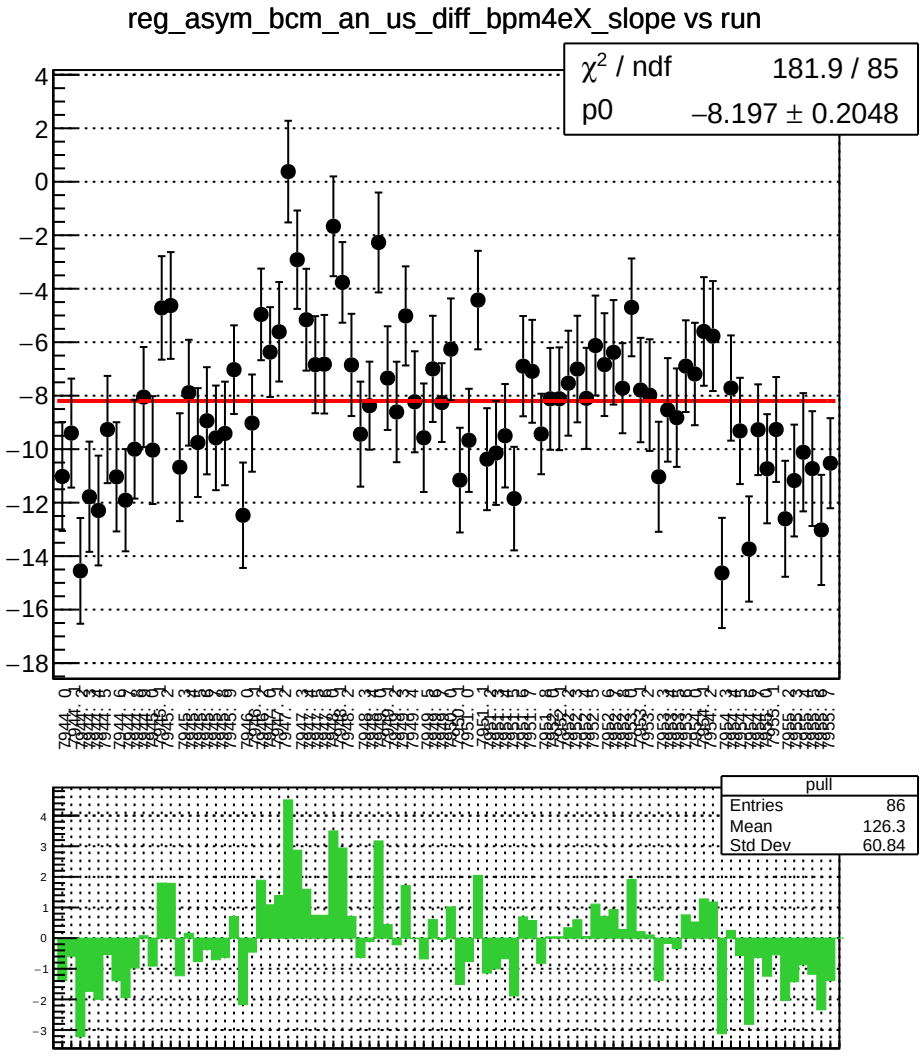

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 85.26 / 85
p0 0.4061 ± 0.272
pull
Entries 86
Mean −663.5
Std Dev 0
pull1D
Entries 86
Mean 0.009124
Std Dev 0.9957

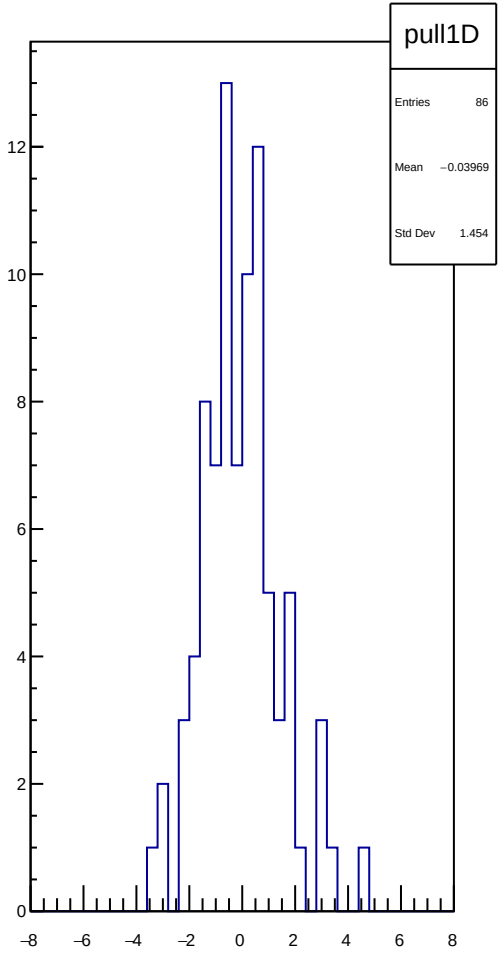

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 165.2 / 85
p0 0.2026 ± 0.00765
pull
Entries 86
Mean −108
Std Dev 0
pull1D
Entries 86
Mean 0.04474
Std Dev 1.385

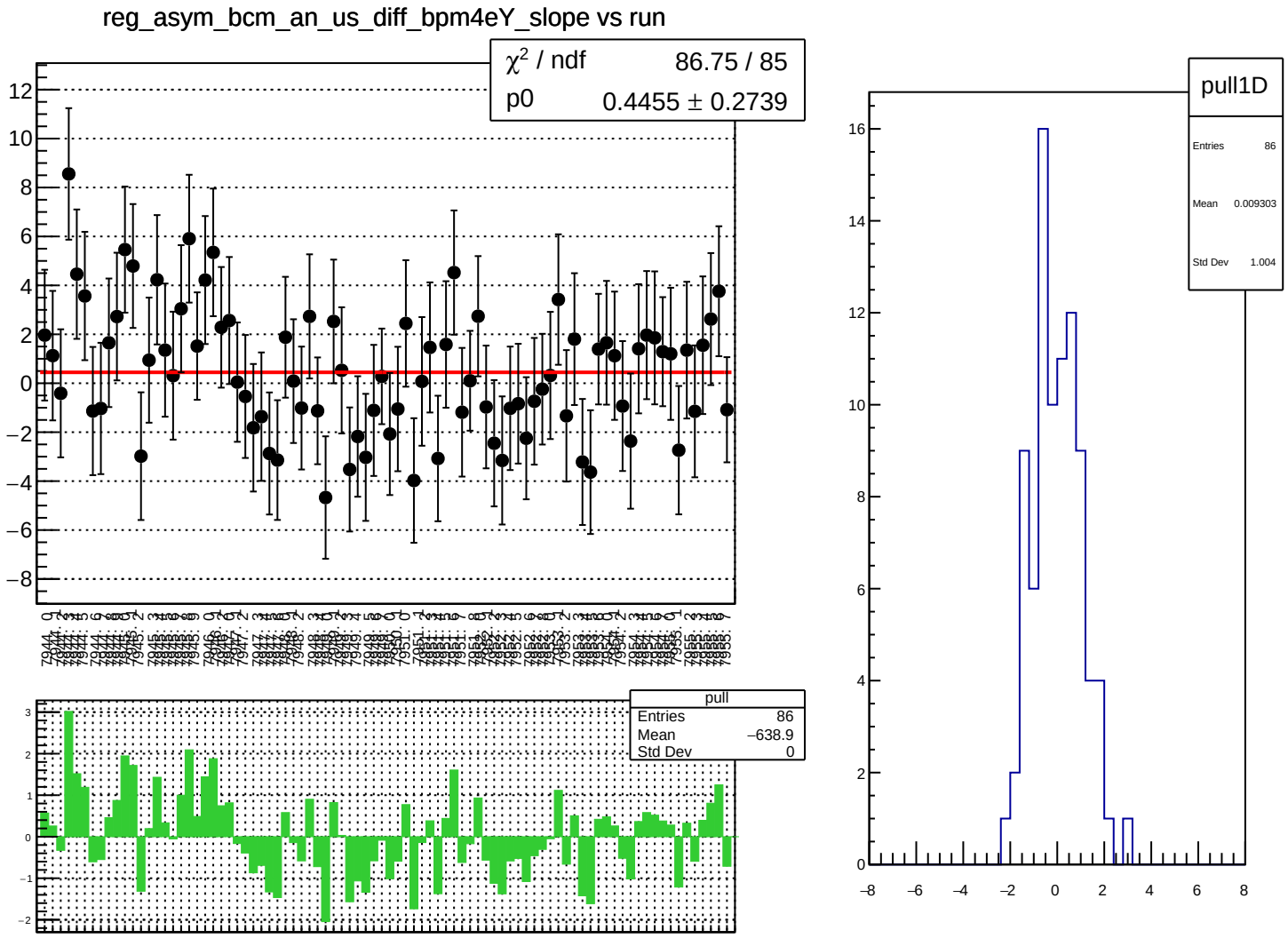

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 177.1 / 85
p0 9.145 ± 0.2306
pull
Entries 86
Mean 118
Std Dev 98.55

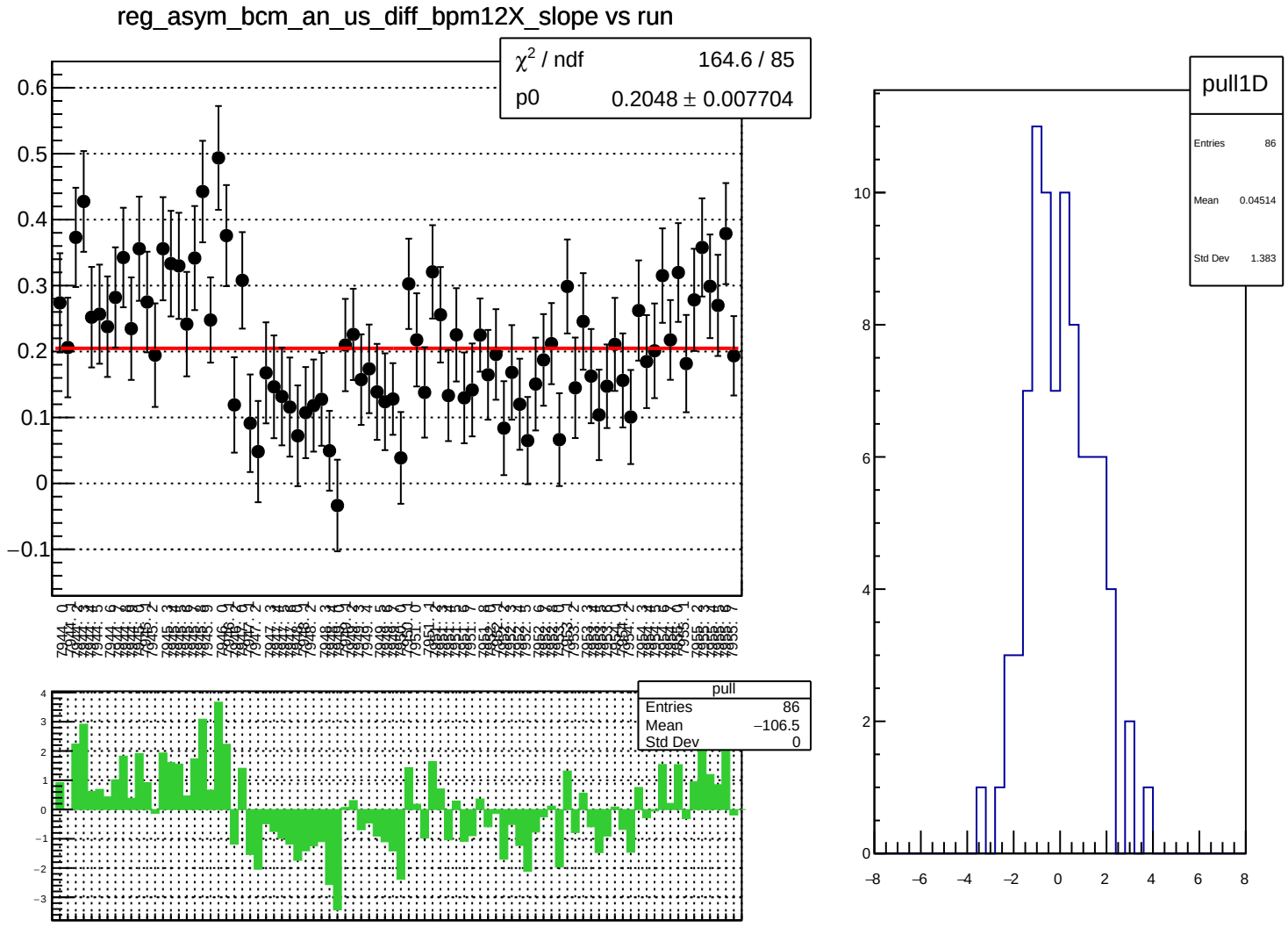

pull1D
Entries 86
Mean 0.02721
Std Dev 1.435

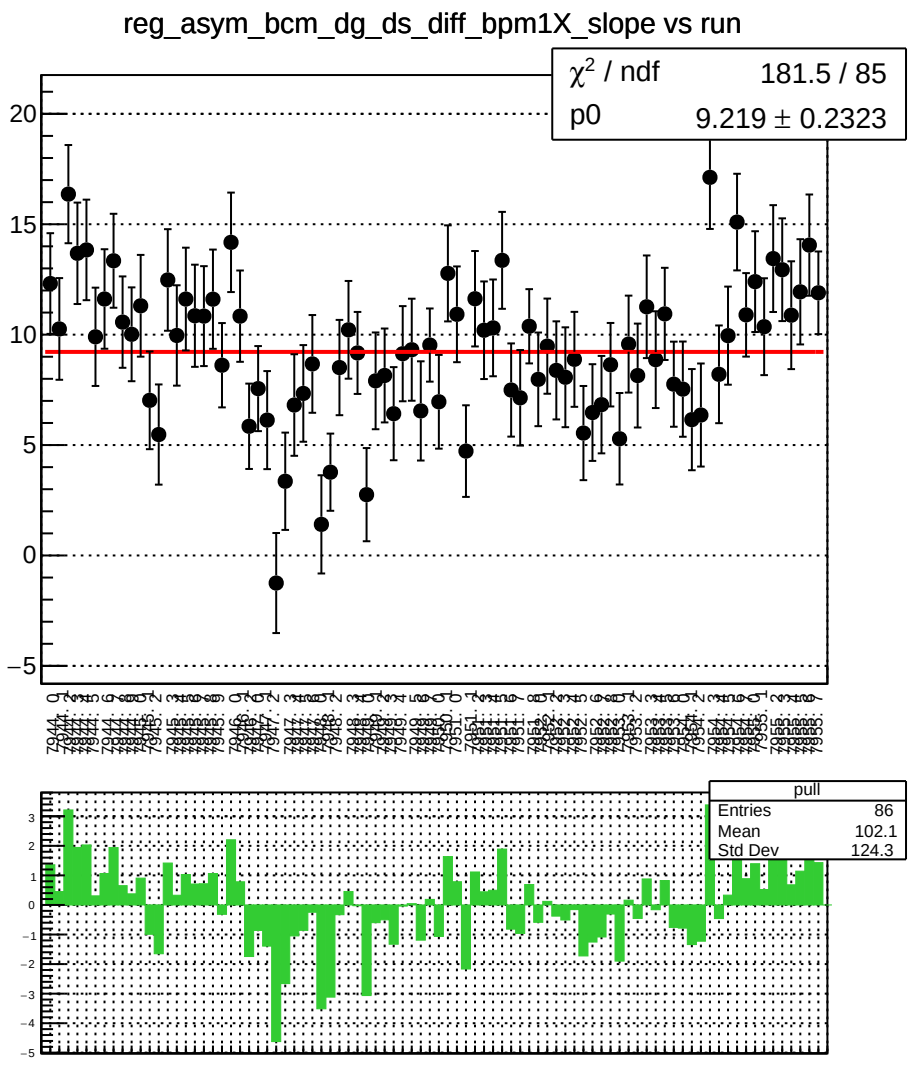

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 75.98 / 85
p0 −1.519 ± 0.2382
pull
Entries 86
Mean −476.2
Std Dev 0
pull1D
Entries 86
Mean −0.007407
Std Dev 0.9399

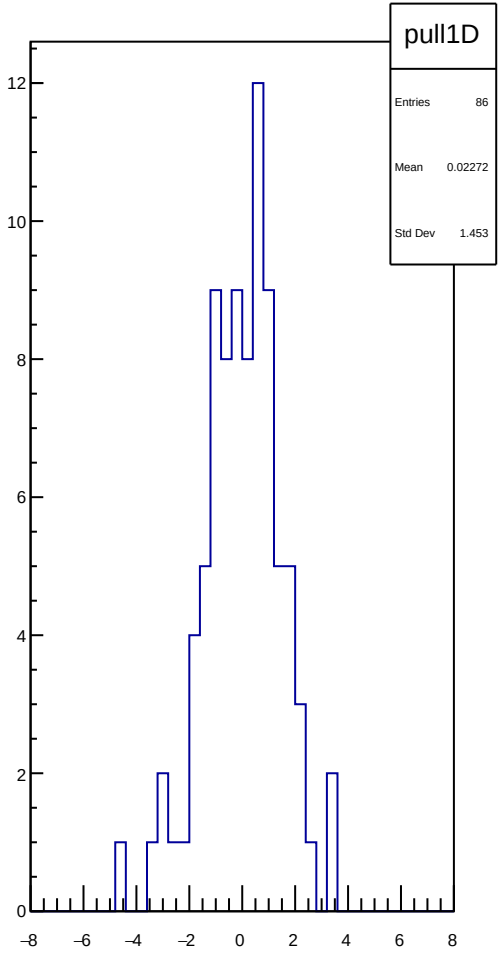

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 181.9 / 85
p0 −8.197 ± 0.2048
pull
Entries 86
Mean 126.3
Std Dev 60.84

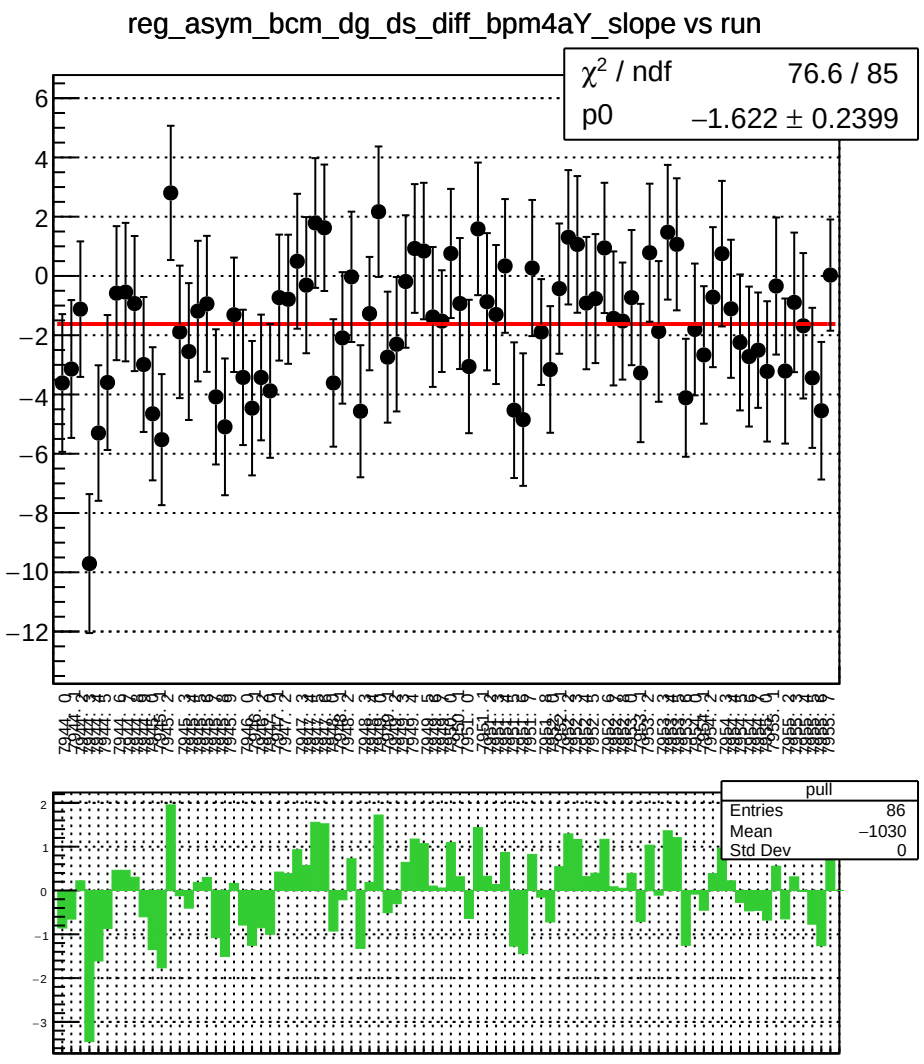

pull1D
Entries 86
Mean −0.03969
Std Dev 1.454

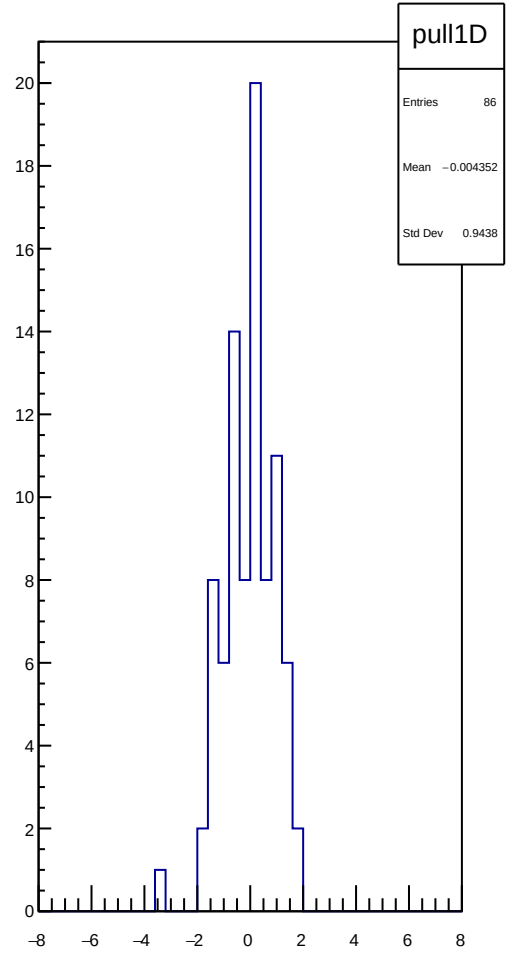

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 86.75 / 85
p0 0.4455 ± 0.2739
pull
Entries 86
Mean −638.9
Std Dev 0
pull1D
Entries 86
Mean 0.009303
Std Dev 1.004

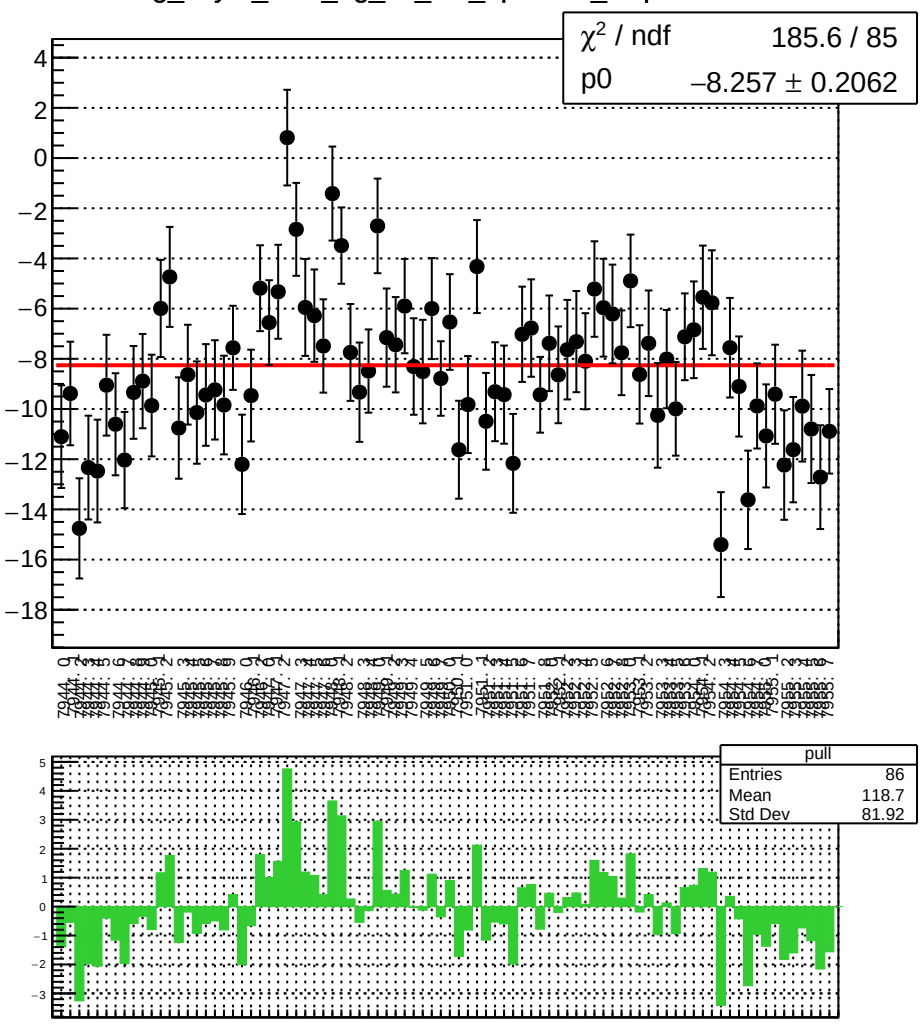

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 164.6 / 85
p0 0.2048 ± 0.007704
pull
Entries 86
Mean −106.5
Std Dev 0
pull1D
Entries 86
Mean 0.04514
Std Dev 1.383

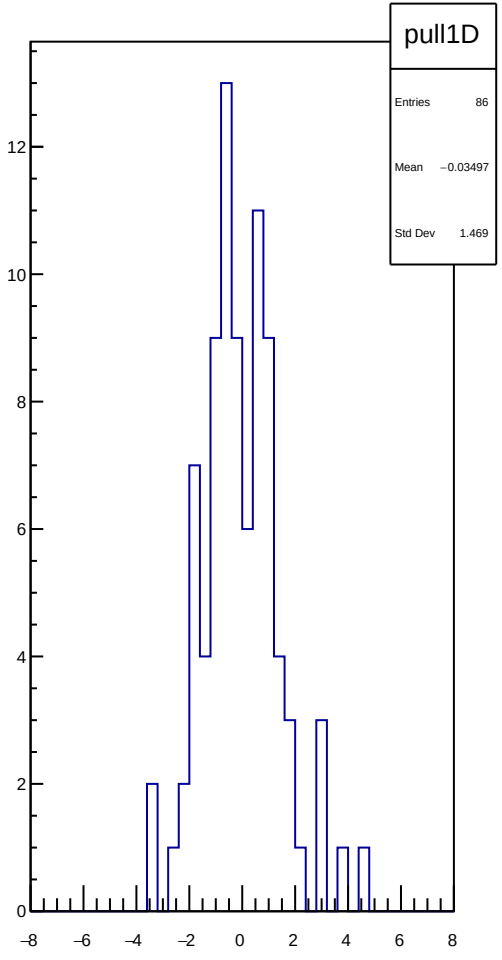

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 181.5 / 85
p0 9.219 ± 0.2323
pull
Entries 86
Mean 102.1
Std Dev 124.3

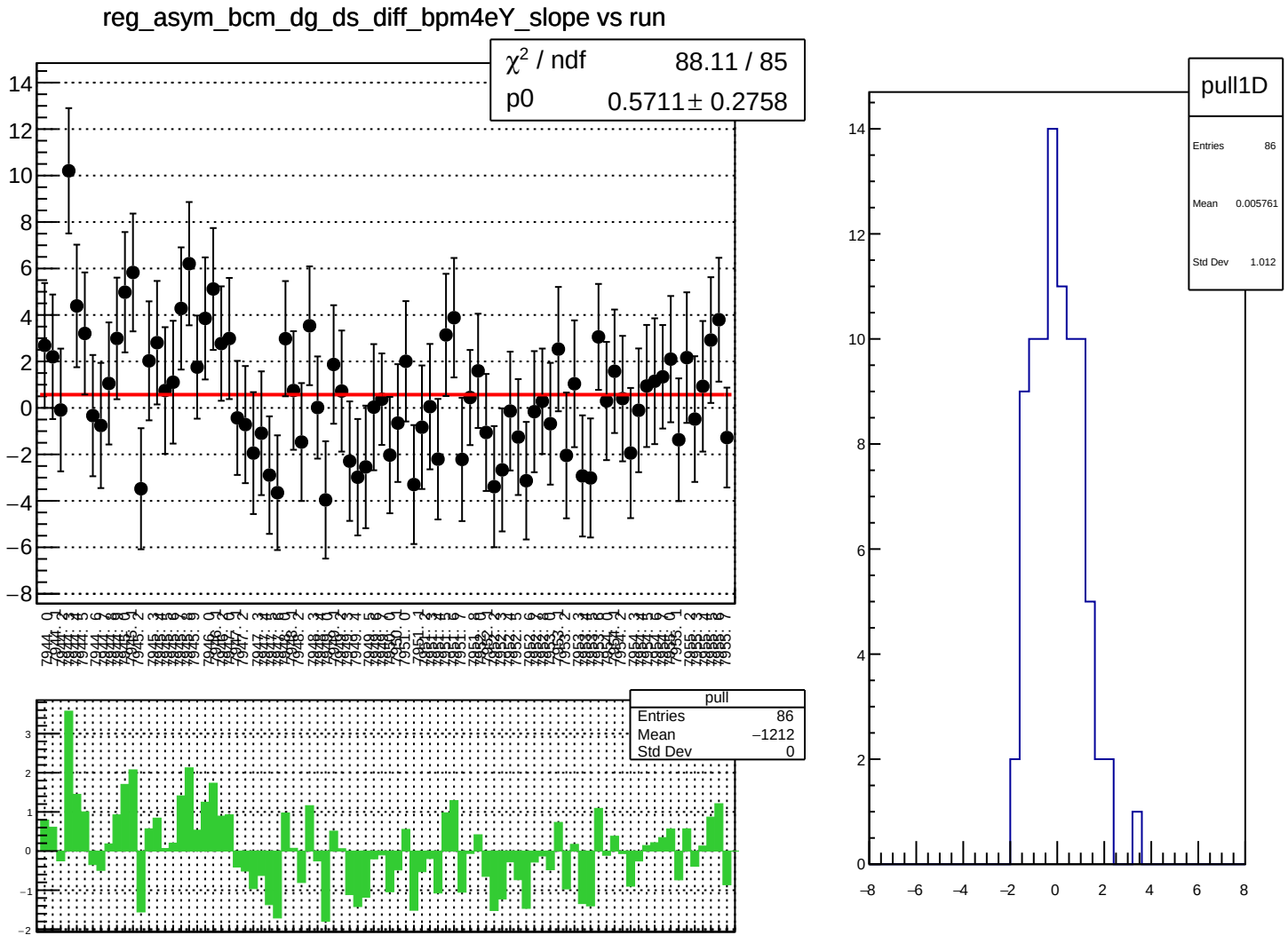

pull1D
Entries 86
Mean 0.02272
Std Dev 1.453

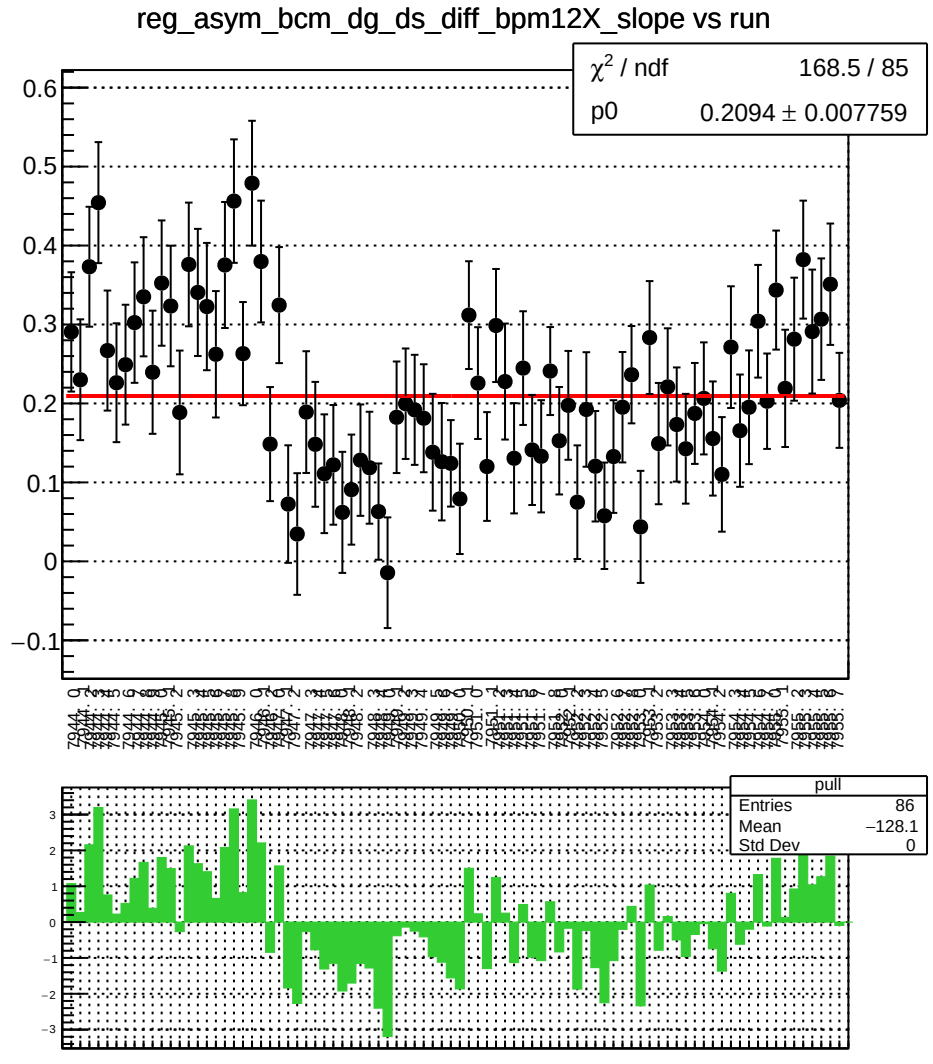

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 76.6 / 85
p0 −1.622 ± 0.2399
pull
Entries 86
Mean −1030
Std Dev 0

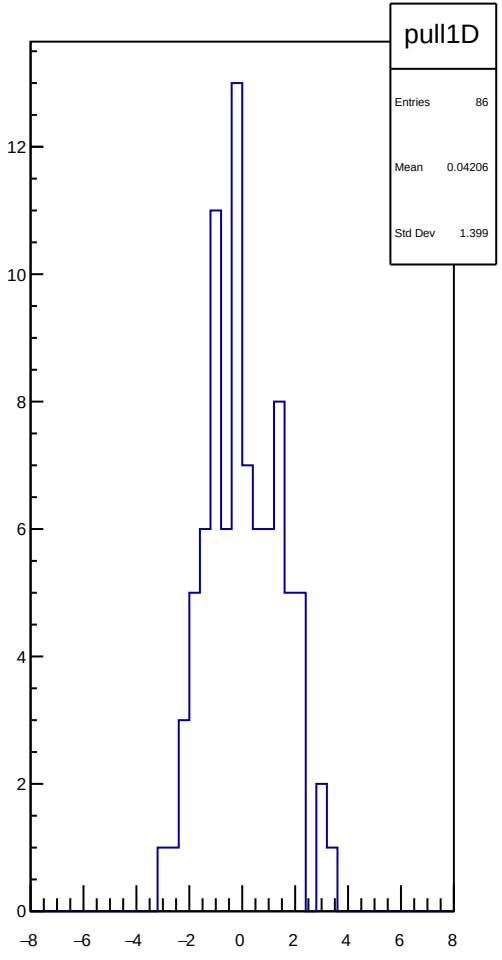

pull1D
Entries 86
Mean −0.004352
Std Dev 0.9438

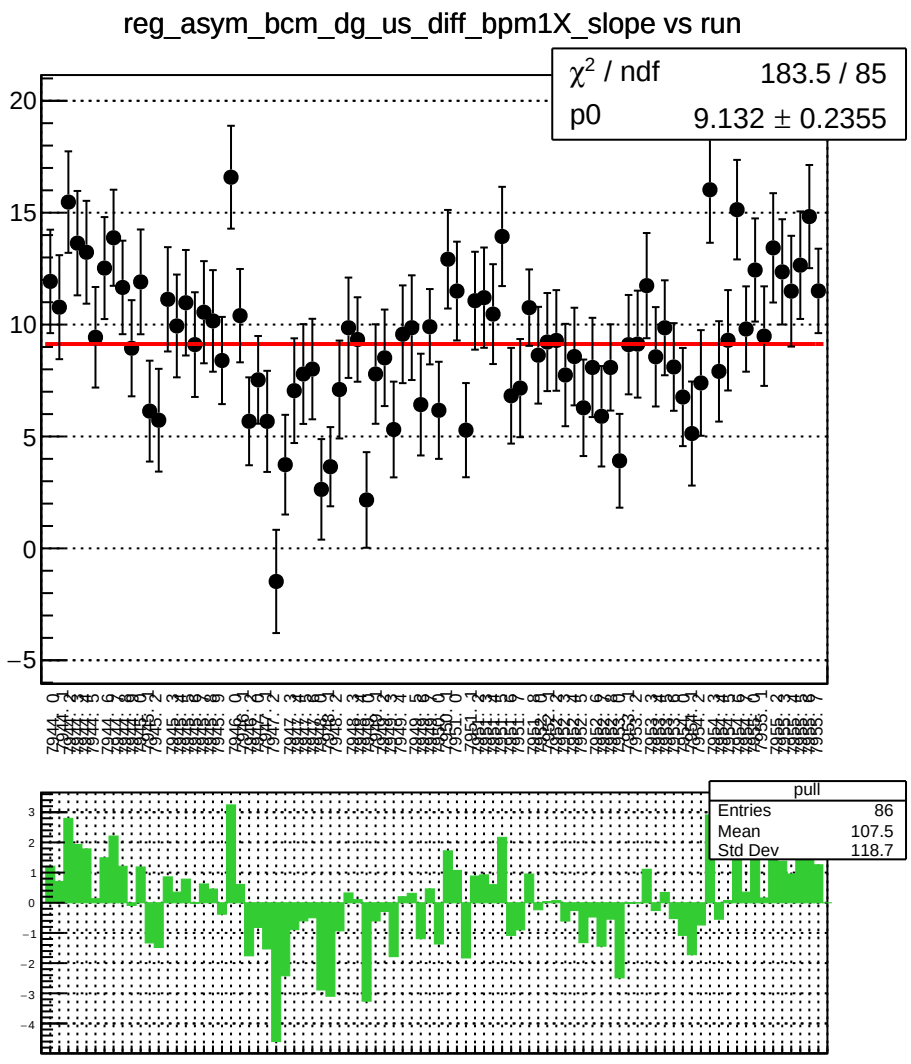

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 185.6 / 85
p0 −8.257 ± 0.2062
pull
Entries 86
Mean 118.7
Std Dev 81.92

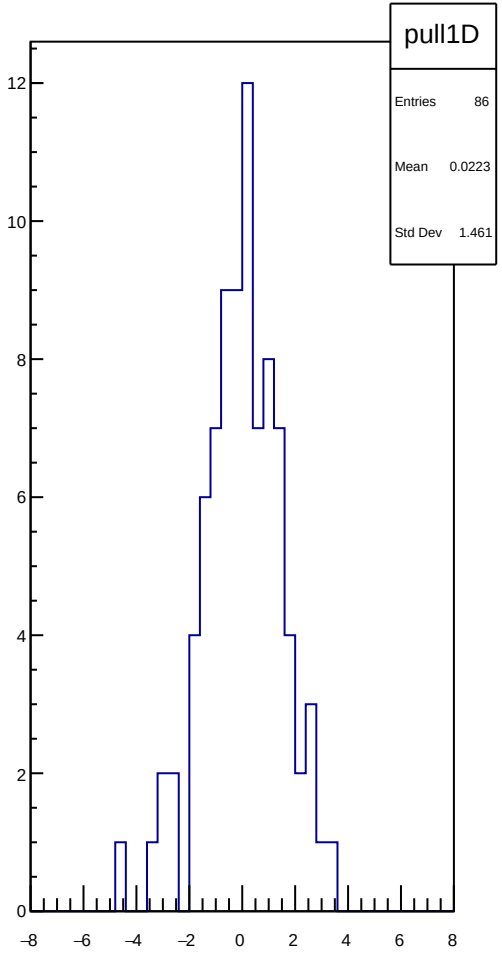

pull1D
Entries 86
Mean −0.03497
Std Dev 1.469

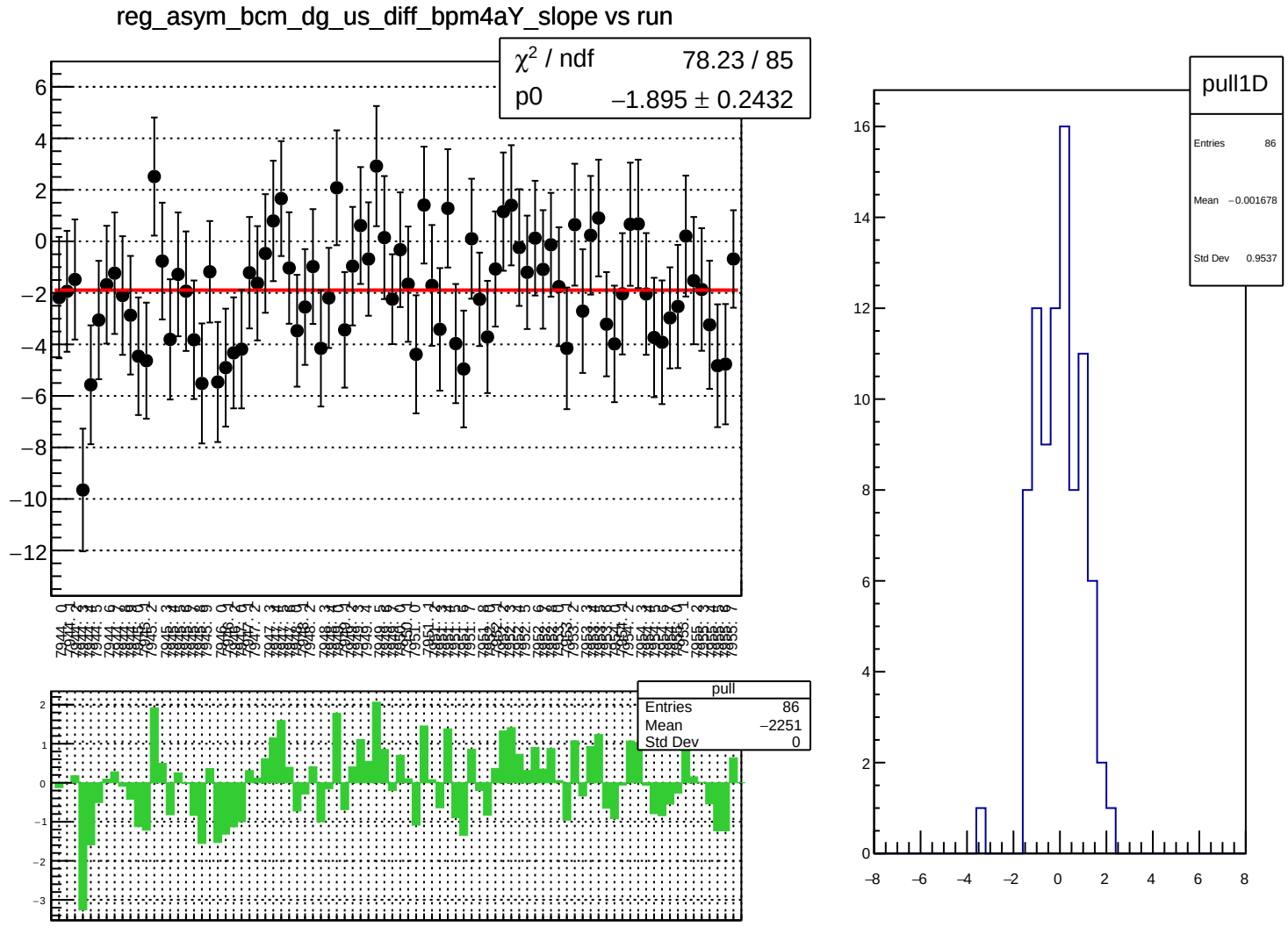

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 88.11 / 85
p0 0.5711± 0.2758
pull
Entries 86
Mean −1212
Std Dev 0
pull1D
Entries 86
Mean 0.005761
Std Dev 1.012

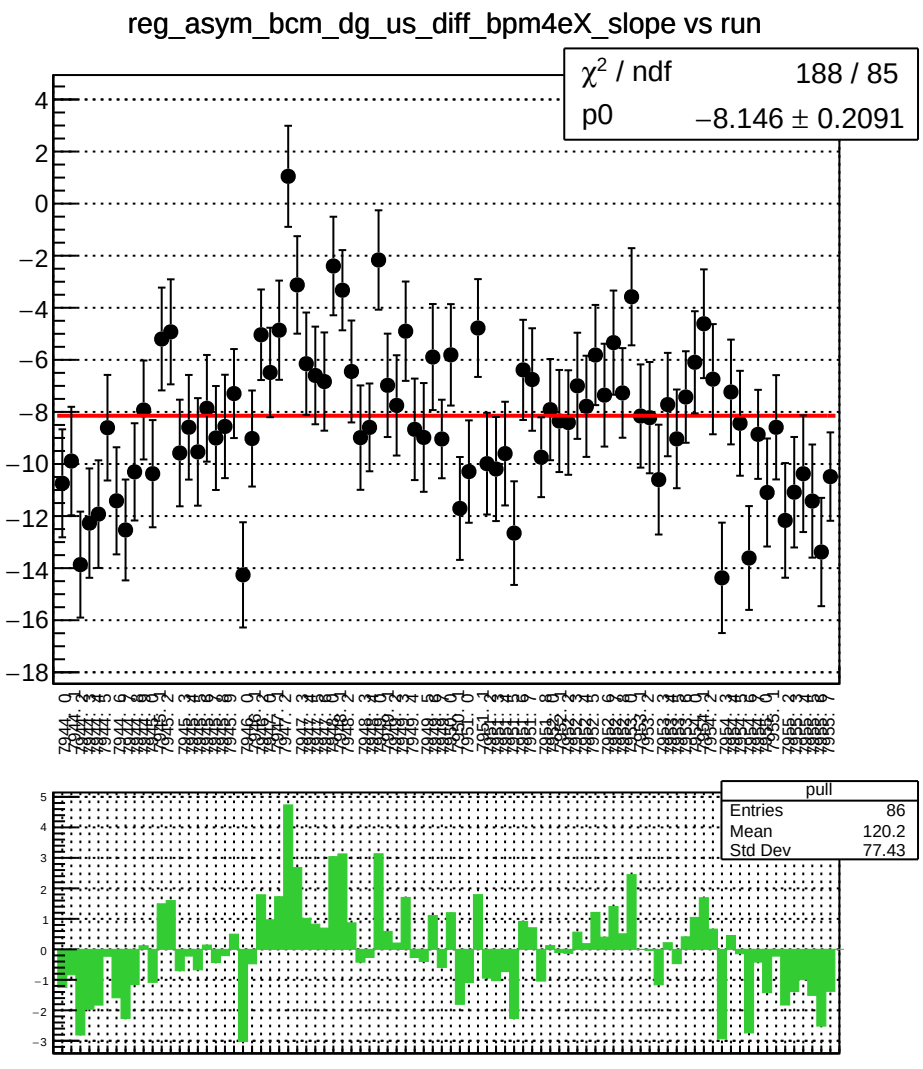

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 168.5 / 85
p0 0.2094 ± 0.007759
pull
Entries 86
Mean −128.1
Std Dev 0

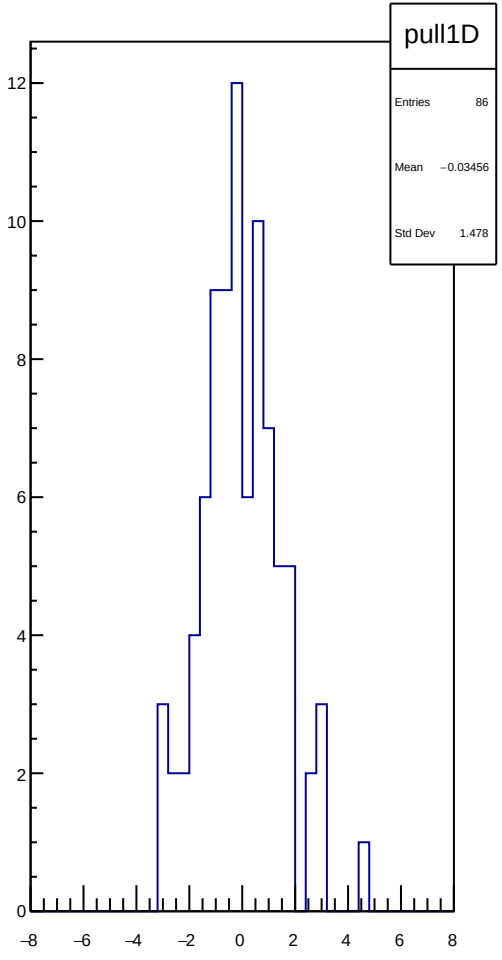

pull1D
Entries 86
Mean 0.04206
Std Dev 1.399

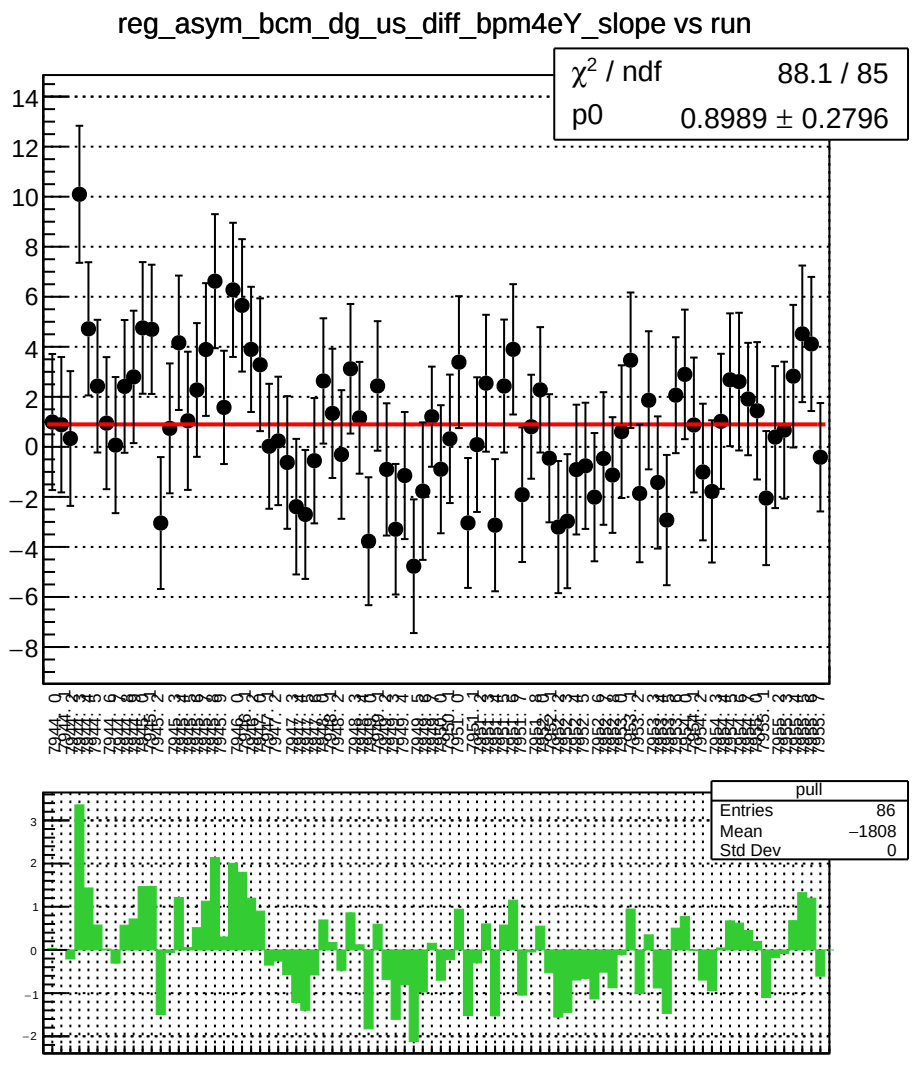

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 183.5 / 85
p0 9.132 ± 0.2355
pull
Entries 86
Mean 107.5
Std Dev 118.7

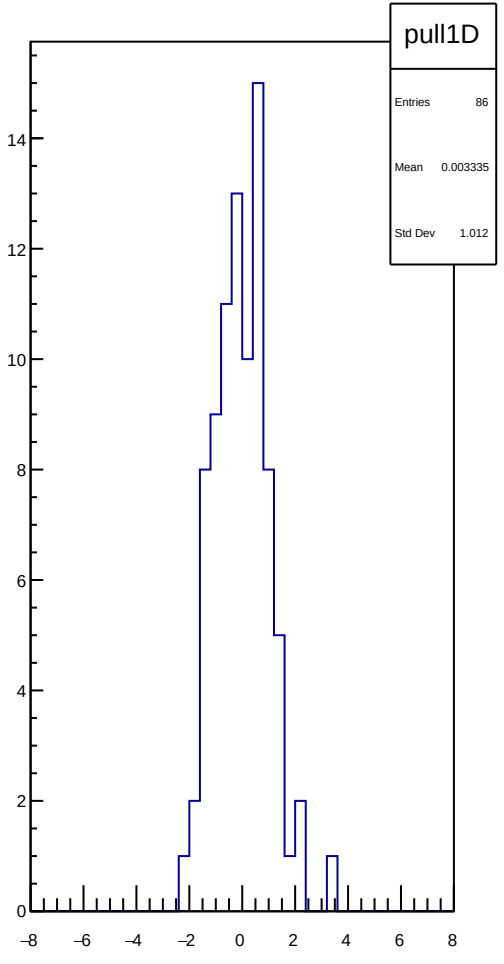

pull1D
Entries 86
Mean 0.0223
Std Dev 1.461

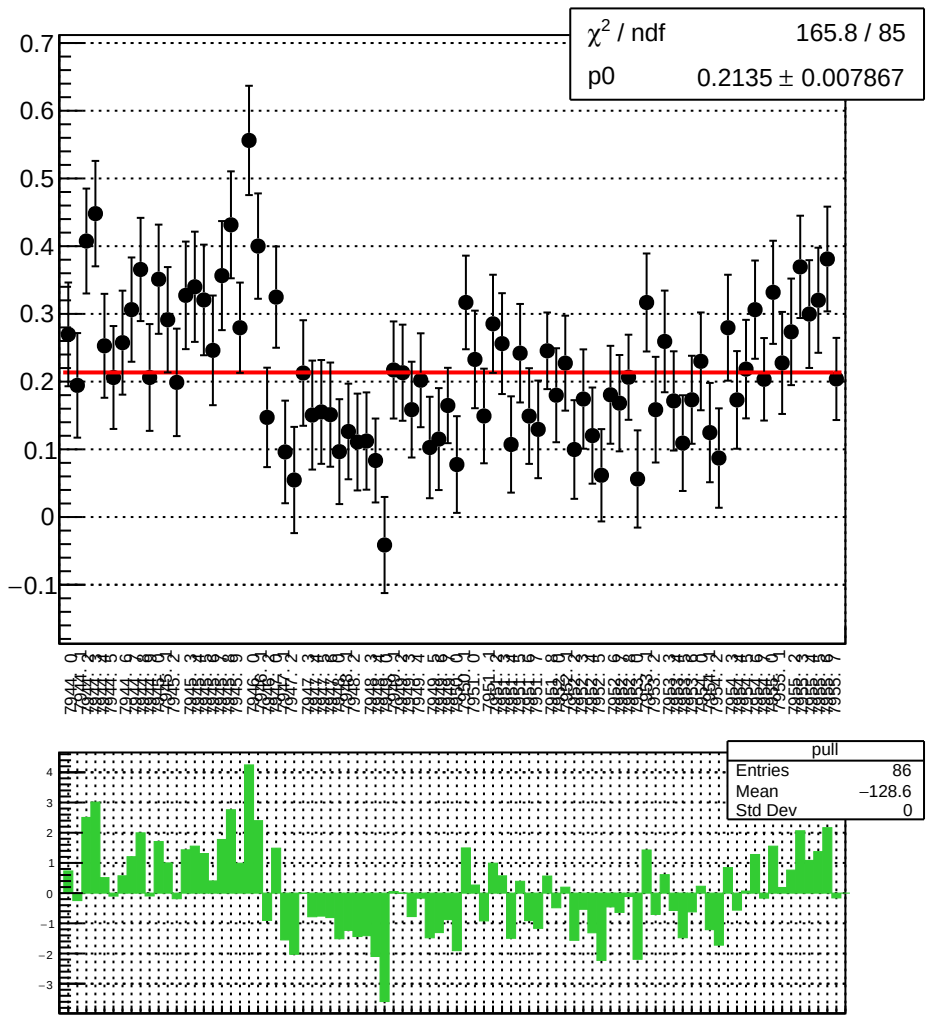

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 78.23 / 85
p0 −1.895 ± 0.2432
pull
Entries 86
Mean −2251
Std Dev 0
pull1D
Entries 86
Mean −0.001678
Std Dev 0.9537

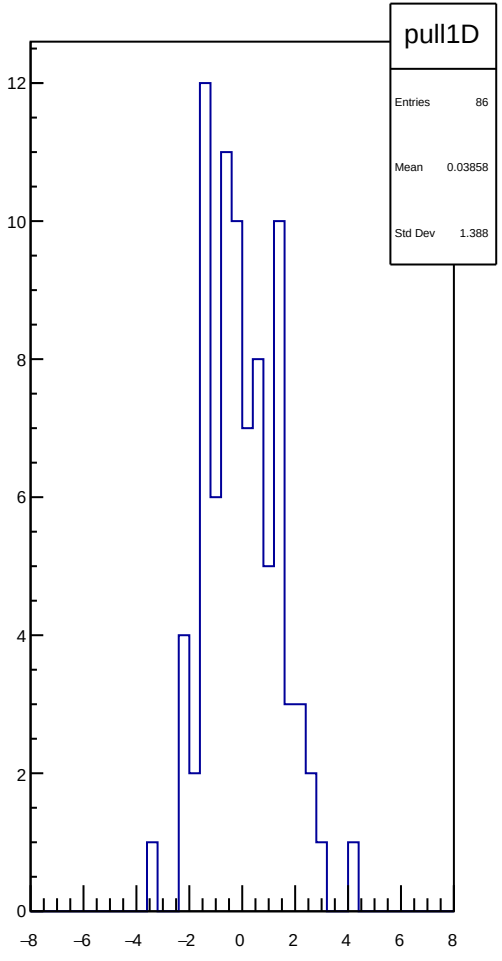

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 188 / 85
p0 −8.146 ± 0.2091
pull
Entries 86
Mean 120.2
Std Dev 77.43

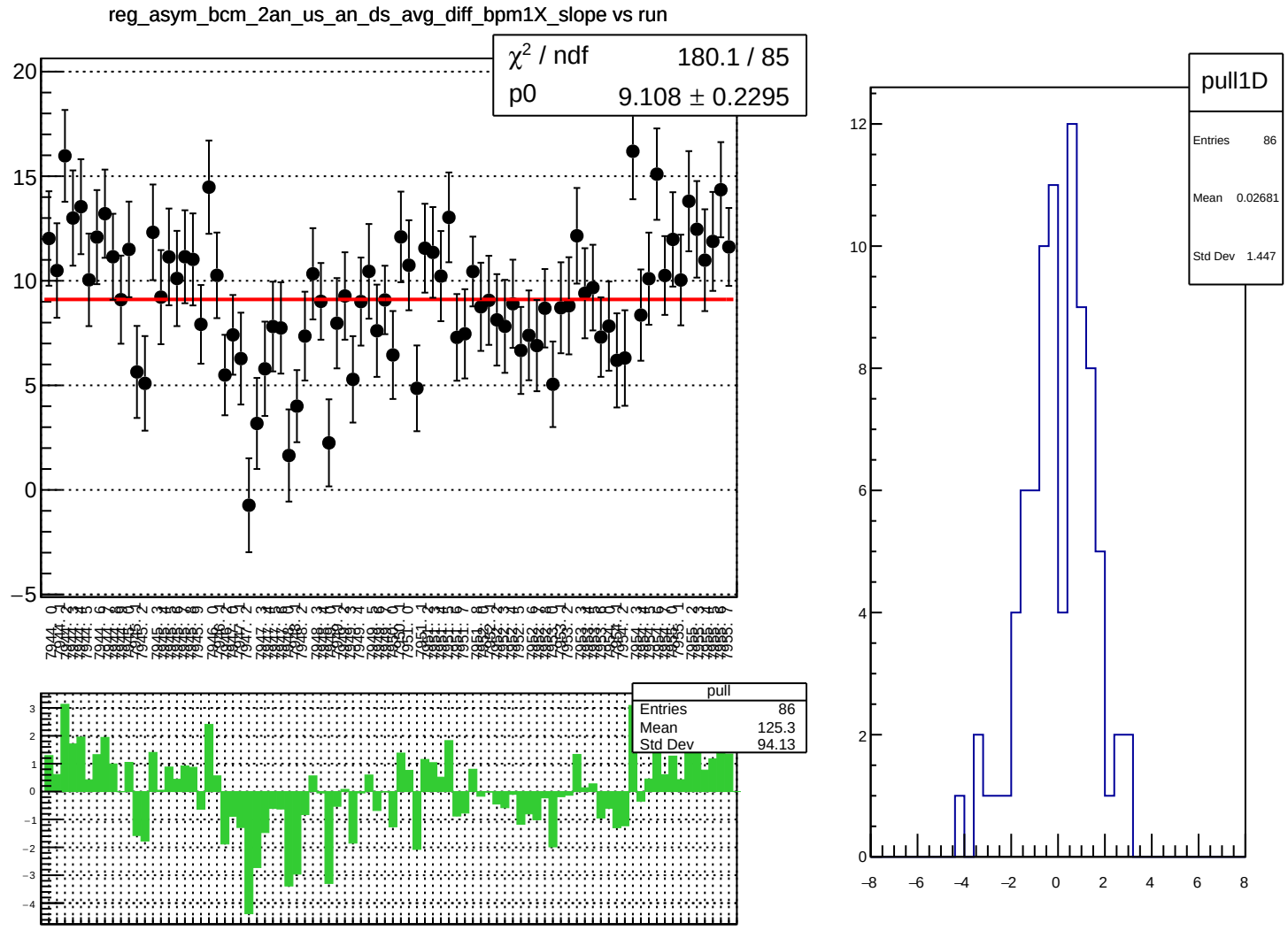

pull1D
Entries 86
Mean −0.03456
Std Dev 1.478

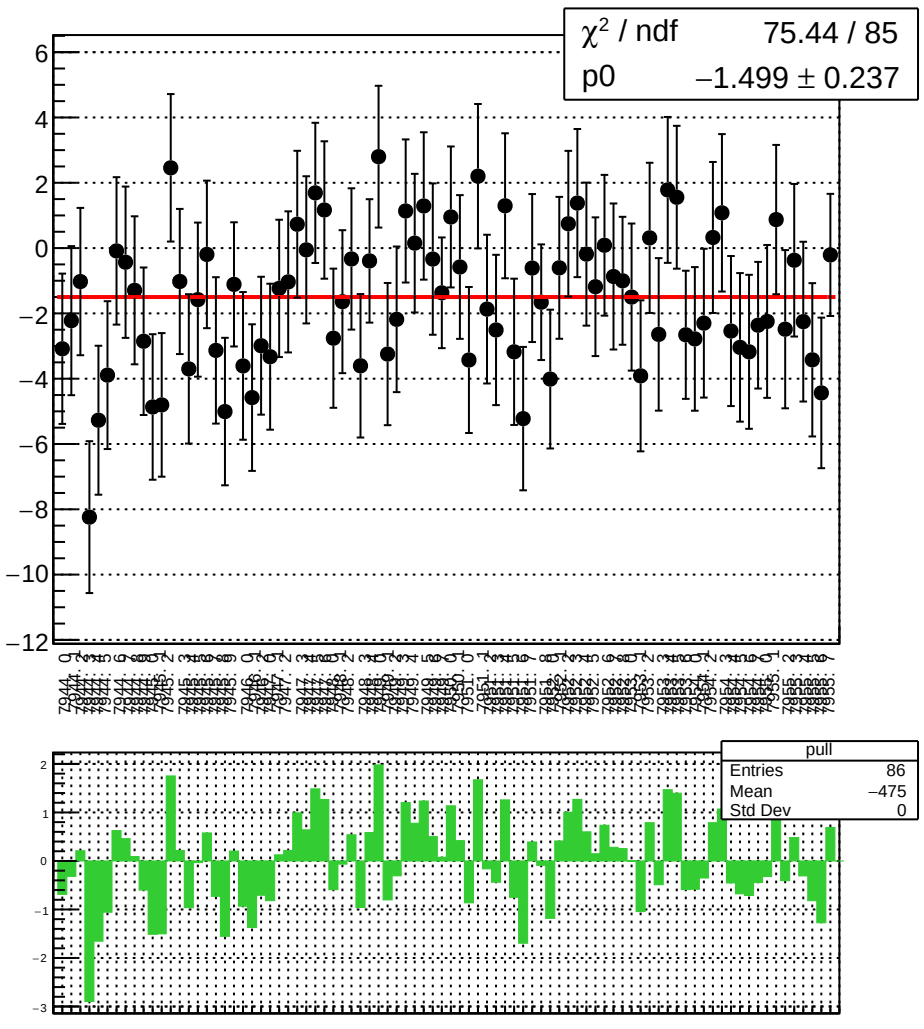

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 88.1 / 85
p0 0.8989 ± 0.2796
pull
Entries 86
Mean −1808
Std Dev 0

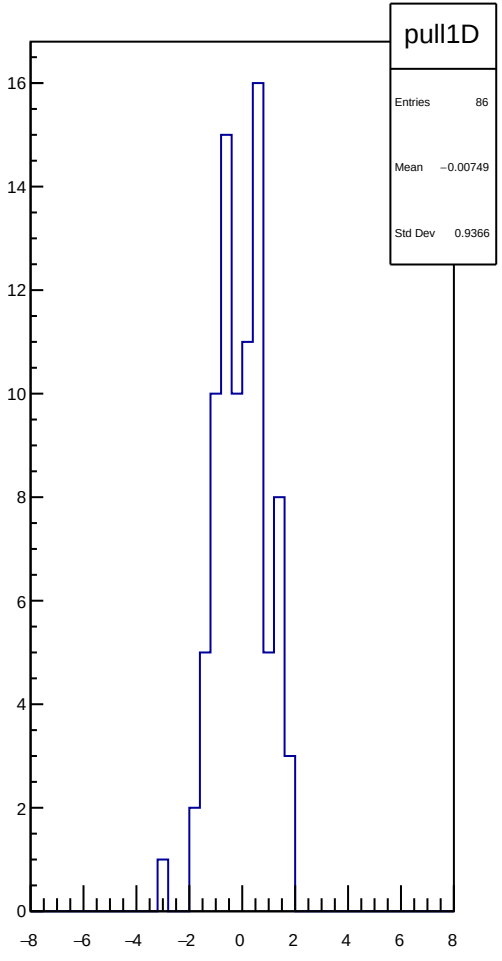

pull1D
Entries 86
Mean 0.003335
Std Dev 1.012

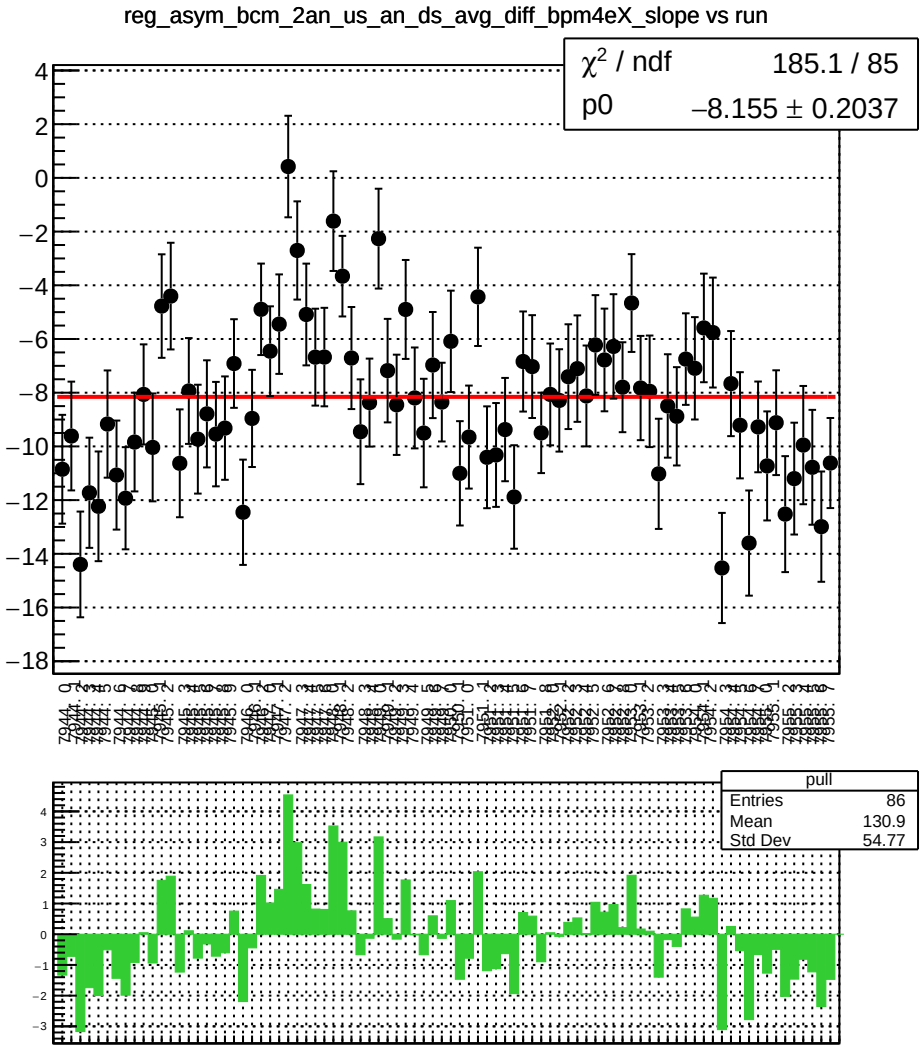

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 165.8 / 85
p0 0.2135 ± 0.007867
pull
Entries 86
Mean −128.6
Std Dev 0

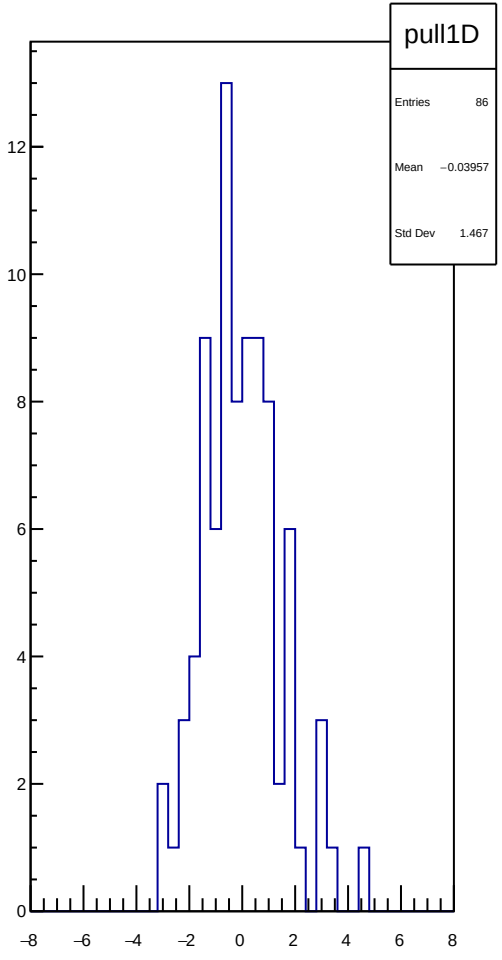

pull1D
Entries 86
Mean 0.03858
Std Dev 1.388

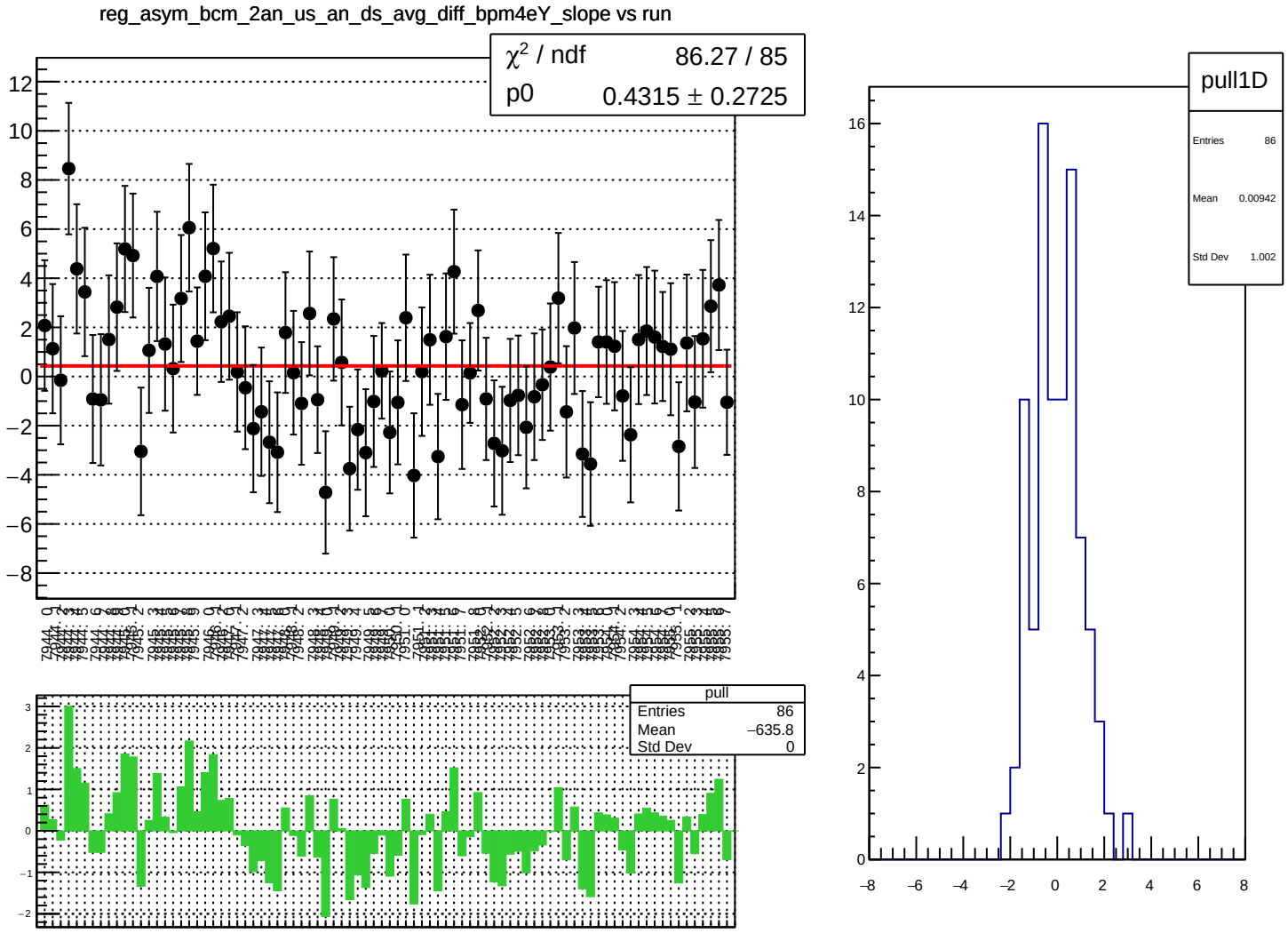

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 180.1 / 85
p0 9.108 ± 0.2295
pull
Entries 86
Mean 125.3
Std Dev 94.13
pull1D
Entries 86
Mean 0.02681
Std Dev 1.447

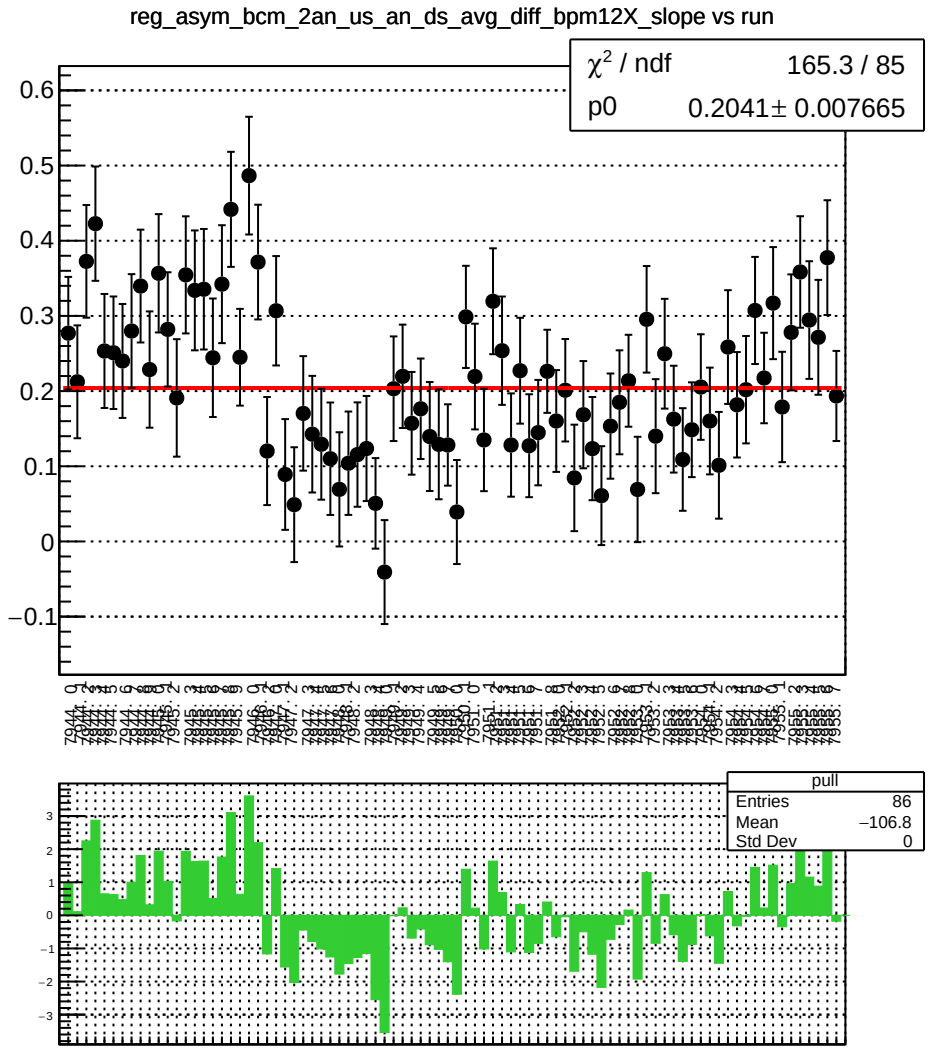

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.44 / 85
p0 −1.499 ± 0.237
pull
Entries 86
Mean −475
Std Dev 0

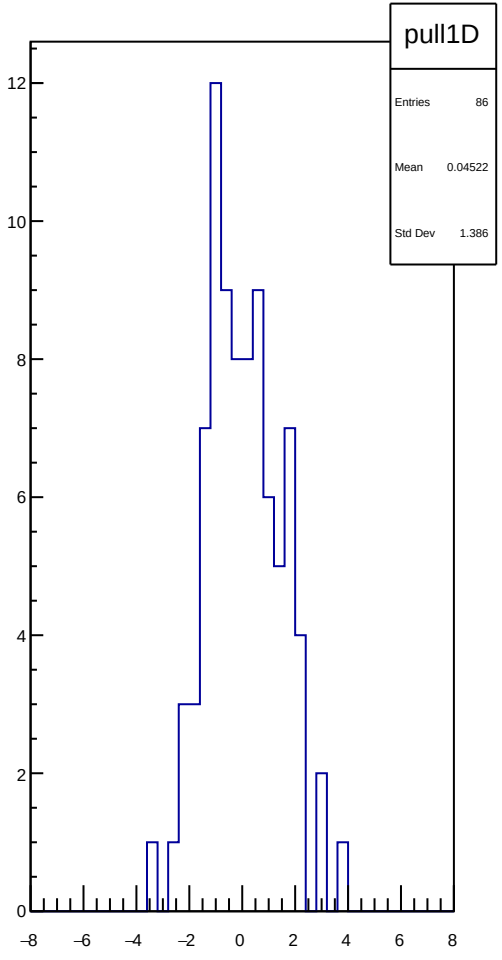

pull1D
Entries 86
Mean −0.00749
Std Dev 0.9366

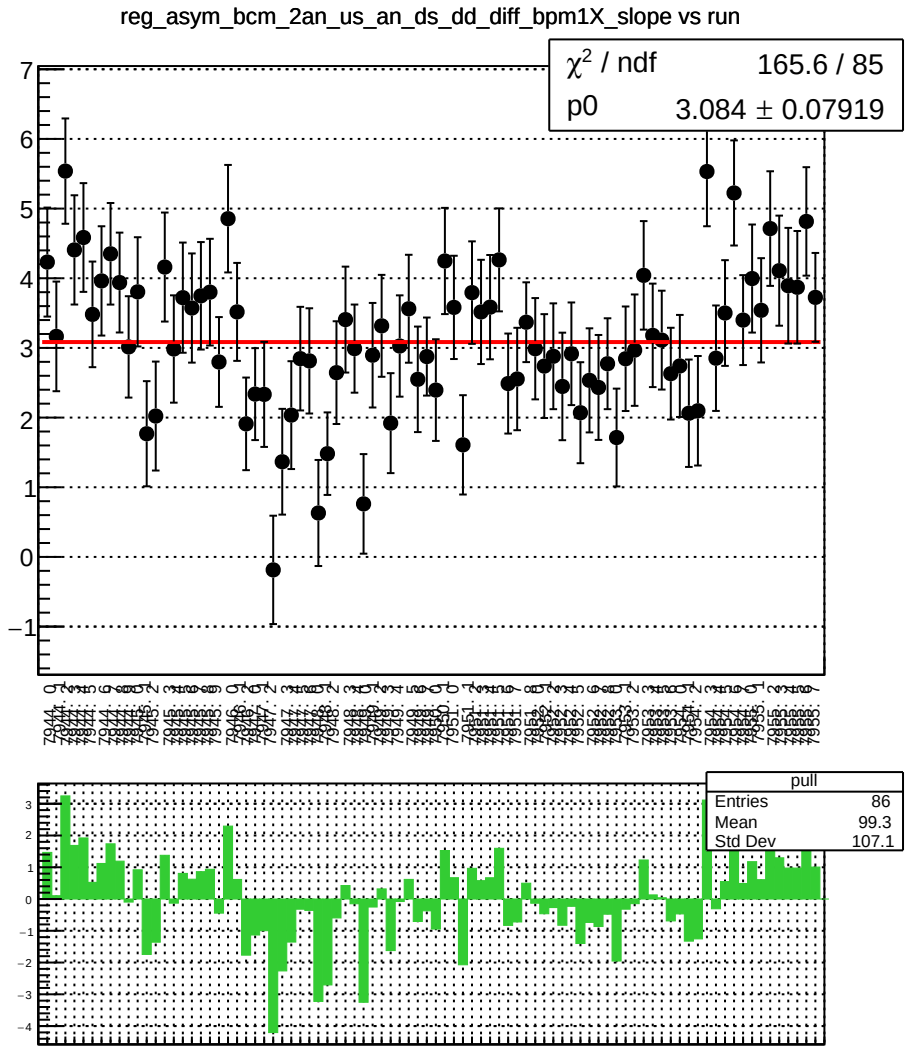

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 185.1 / 85
p0 −8.155 ± 0.2037
pull
Entries 86
Mean 130.9
Std Dev 54.77

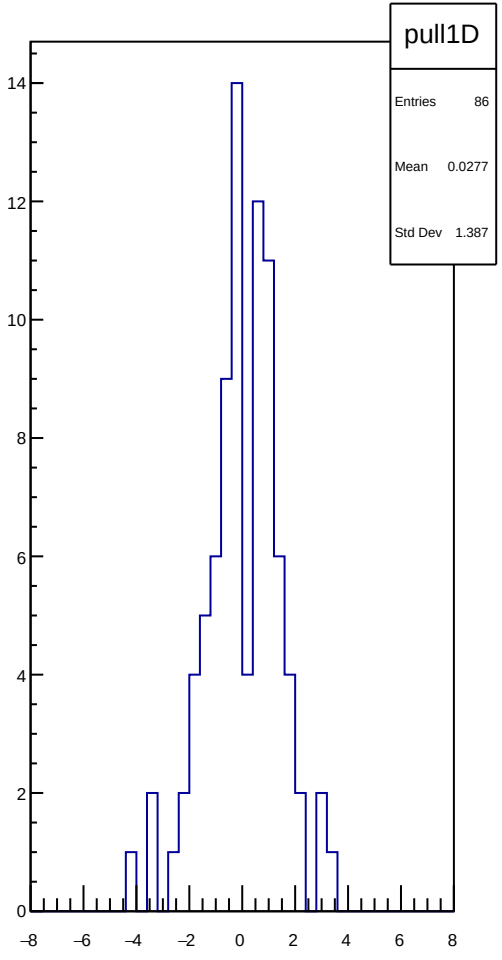

pull1D
Entries 86
Mean −0.03957
Std Dev 1.467

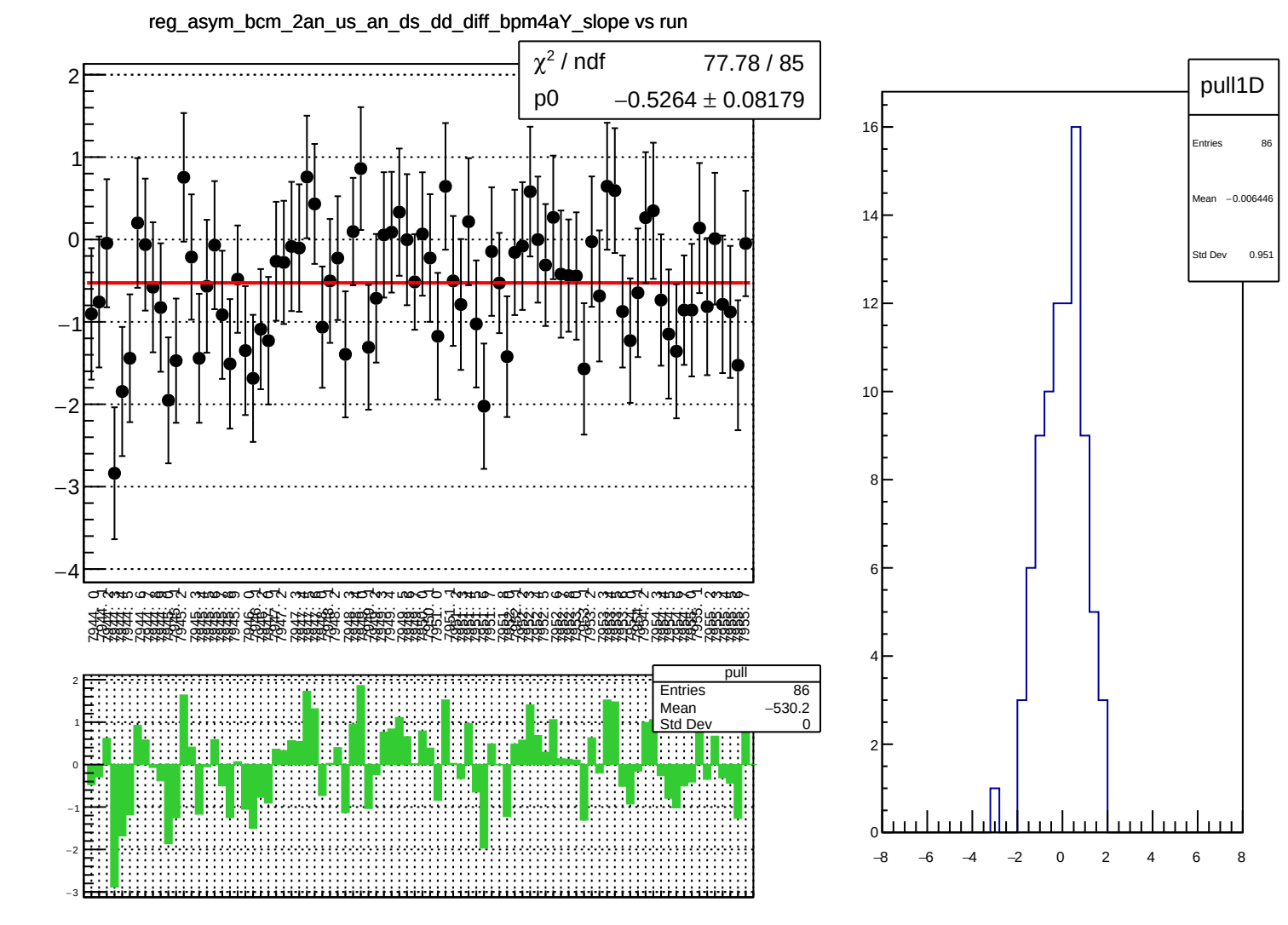

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.27 / 85
p0 0.4315 ± 0.2725
pull
Entries 86
Mean −635.8
Std Dev 0
pull1D
Entries 86
Mean 0.00942
Std Dev 1.002

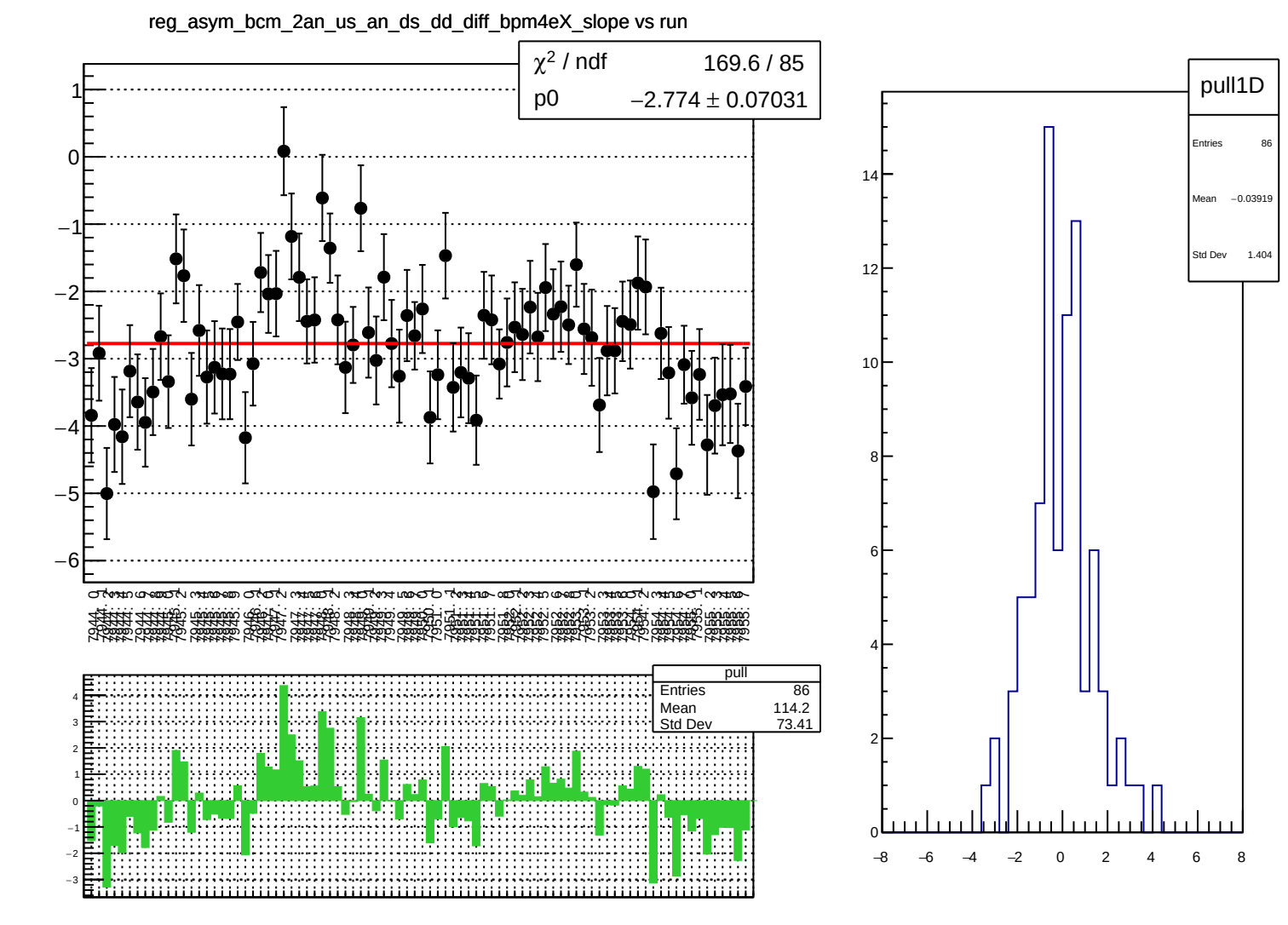

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 165.3 / 85
p0 0.2041± 0.007665
pull
Entries 86
Mean −106.8
Std Dev 0

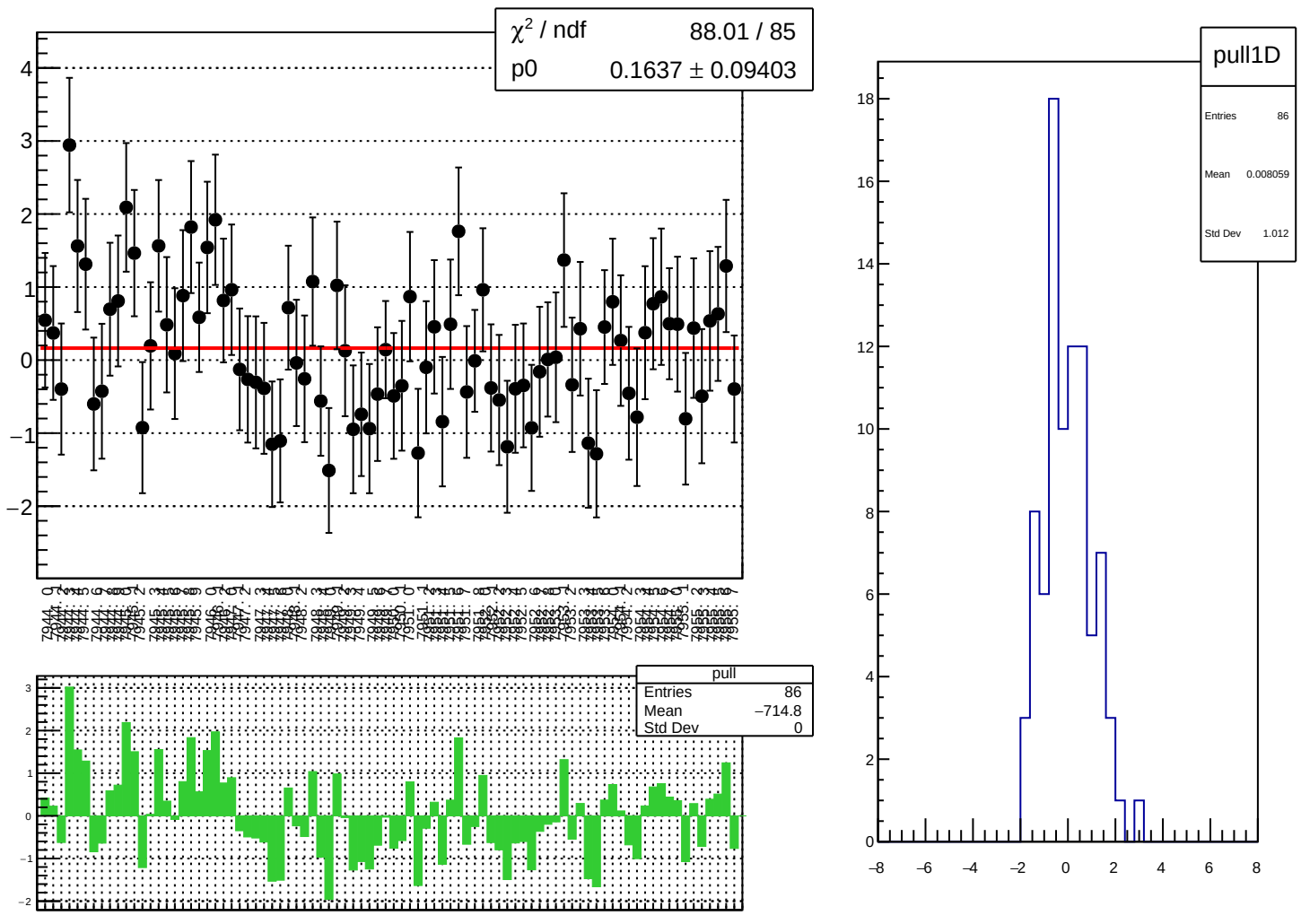

pull1D
Entries 86
Mean 0.04522
Std Dev 1.386

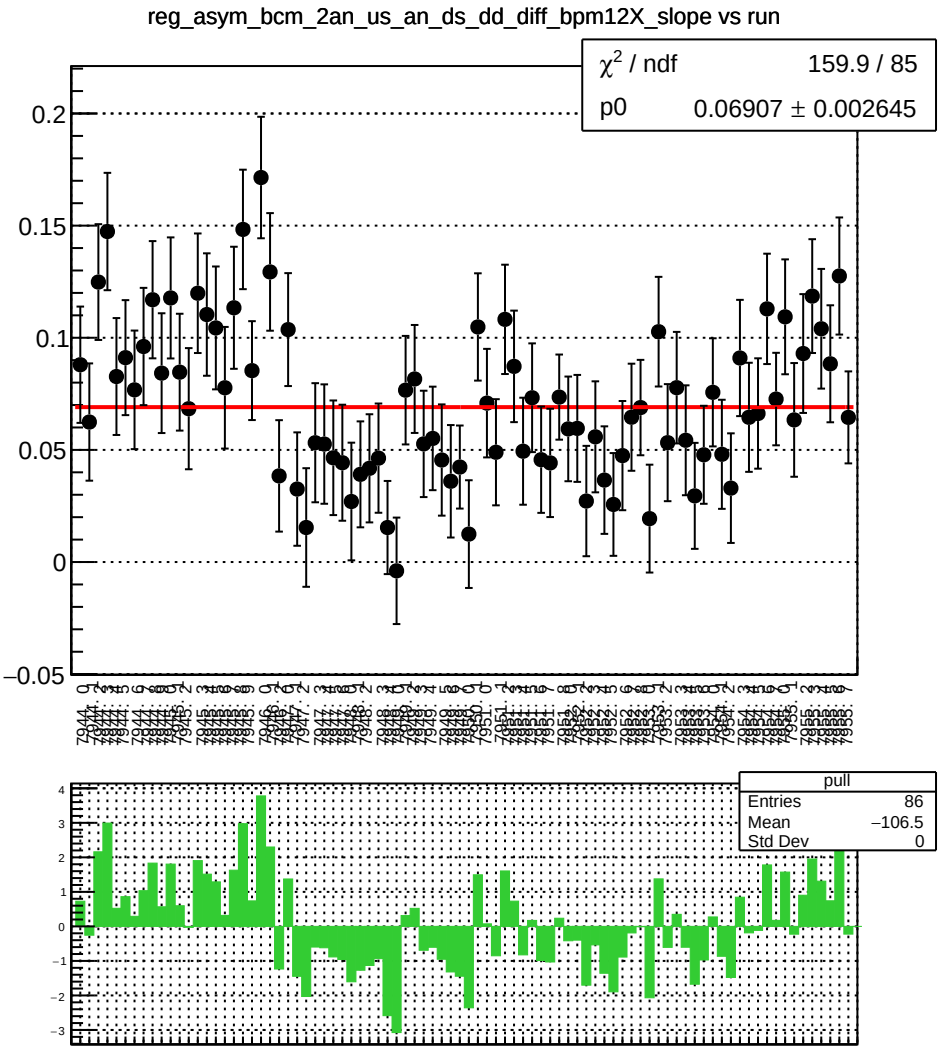

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 165.6 / 85
p0 3.084 ± 0.07919
pull
Entries 86
Mean 99.3
Std Dev 107.1

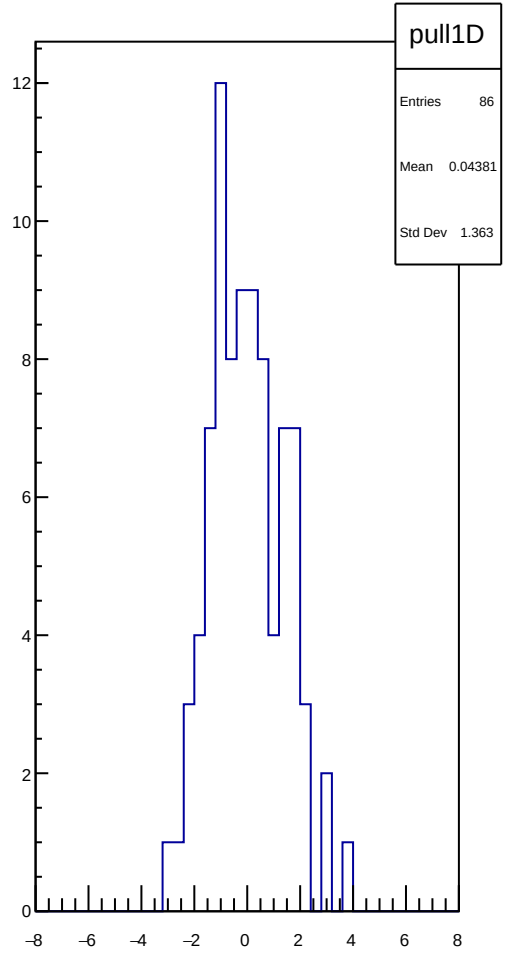

pull1D
Entries 86
Mean 0.0277
Std Dev 1.387

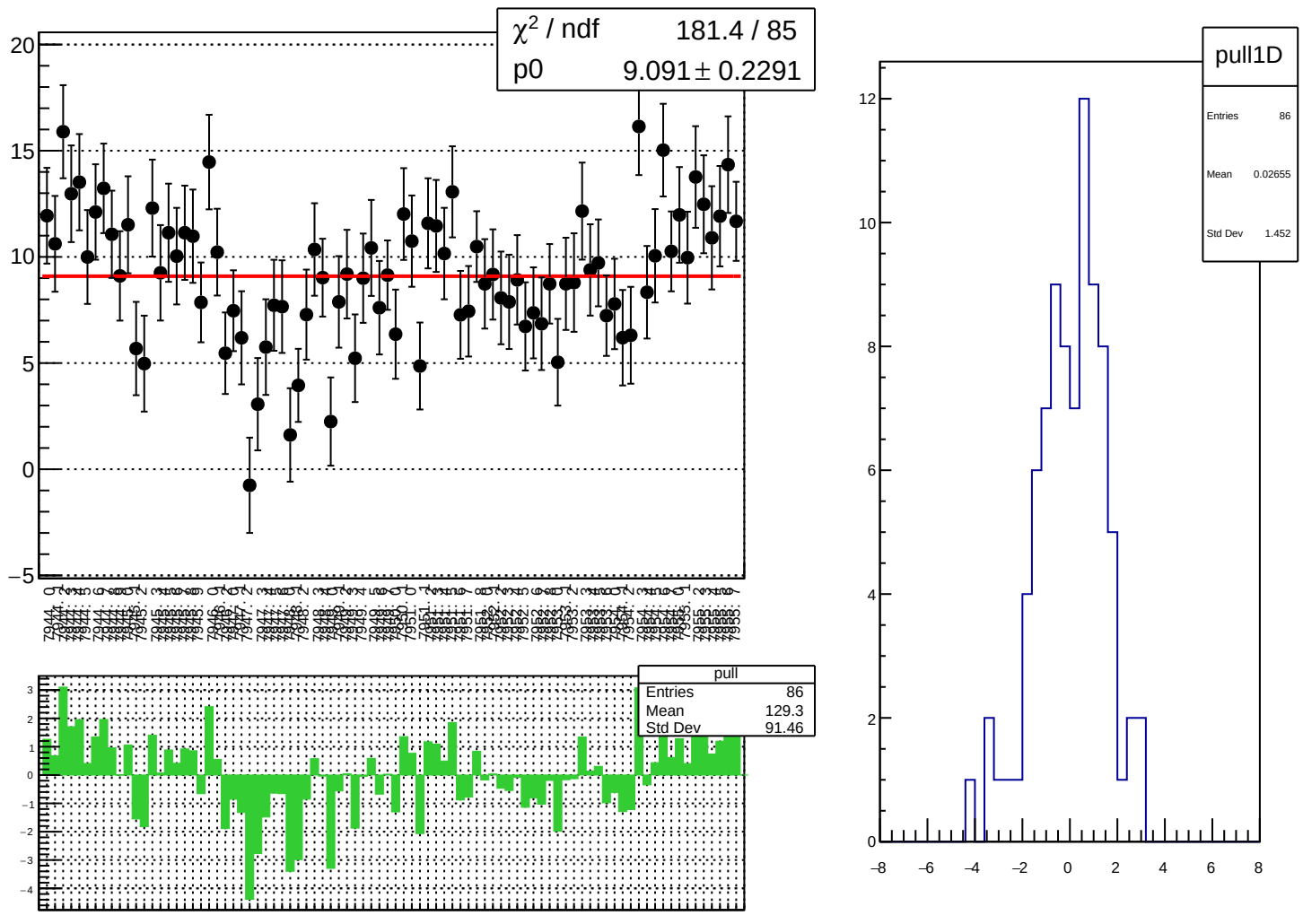

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.78 / 85
p0 −0.5264 ± 0.08179
pull
Entries 86
Mean −530.2
Std Dev 0
pull1D
Entries 86
Mean −0.006446
Std Dev 0.951

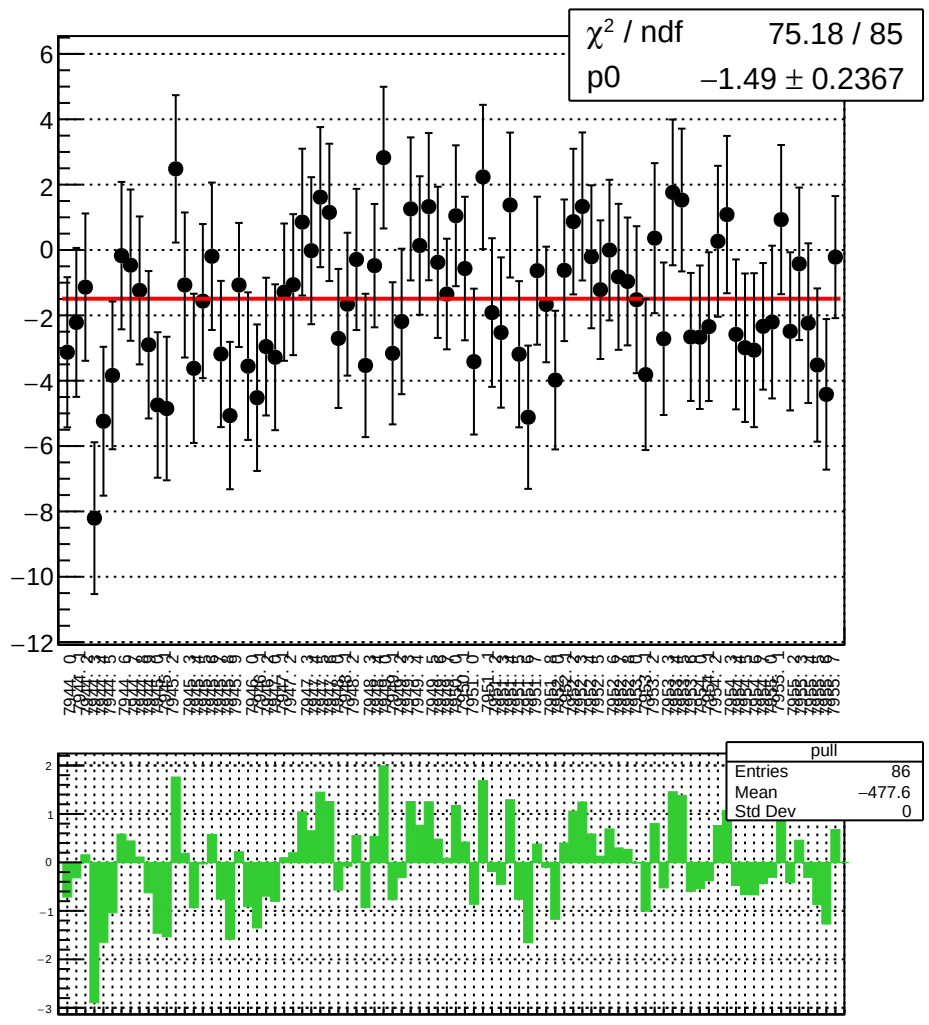

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 169.6 / 85
p0 −2.774 ± 0.07031
pull
Entries 86
Mean 114.2
Std Dev 73.41
pull1D
Entries 86
Mean −0.03919
Std Dev 1.404

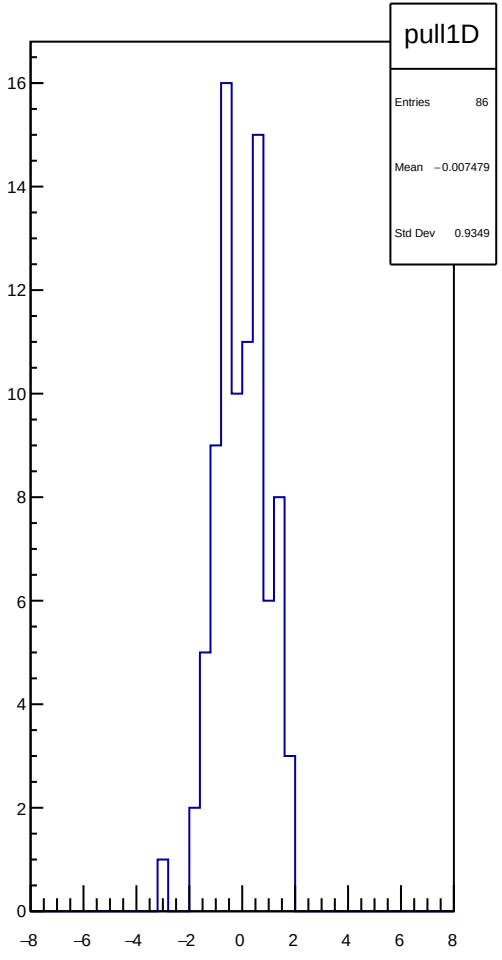

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.01 / 85
p0 0.1637 ± 0.09403
pull
Entries 86
Mean −714.8
Std Dev 0
pull1D
Entries 86
Mean 0.008059
Std Dev 1.012

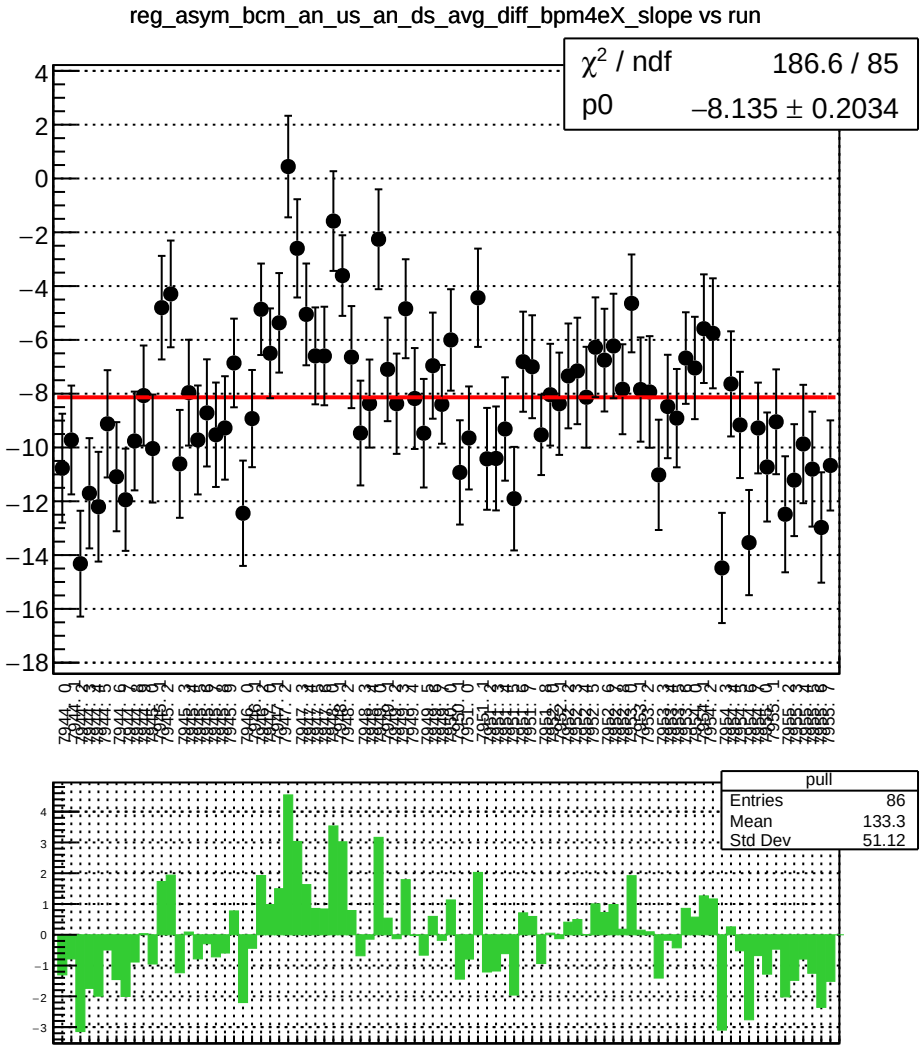

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 159.9 / 85
p0 0.06907 ± 0.002645
pull
Entries 86
Mean −106.5
Std Dev 0

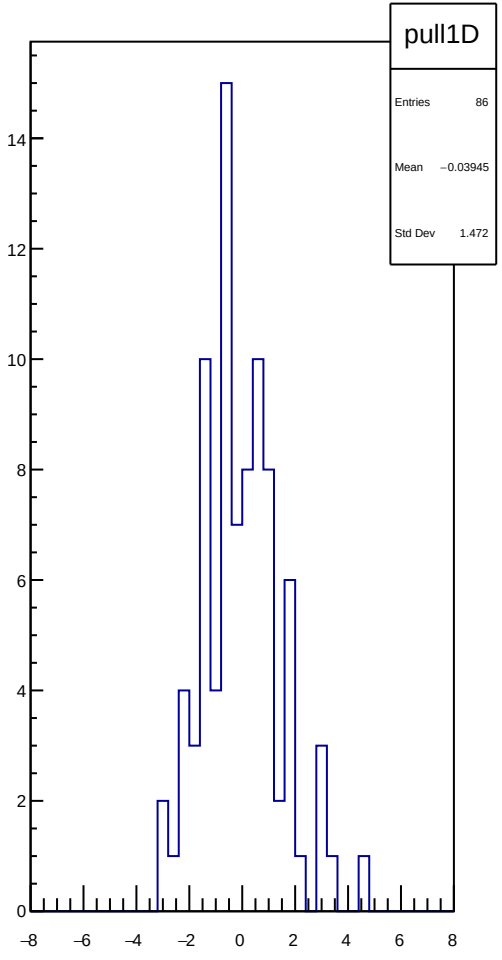

pull1D
Entries 86
Mean 0.04381
Std Dev 1.363

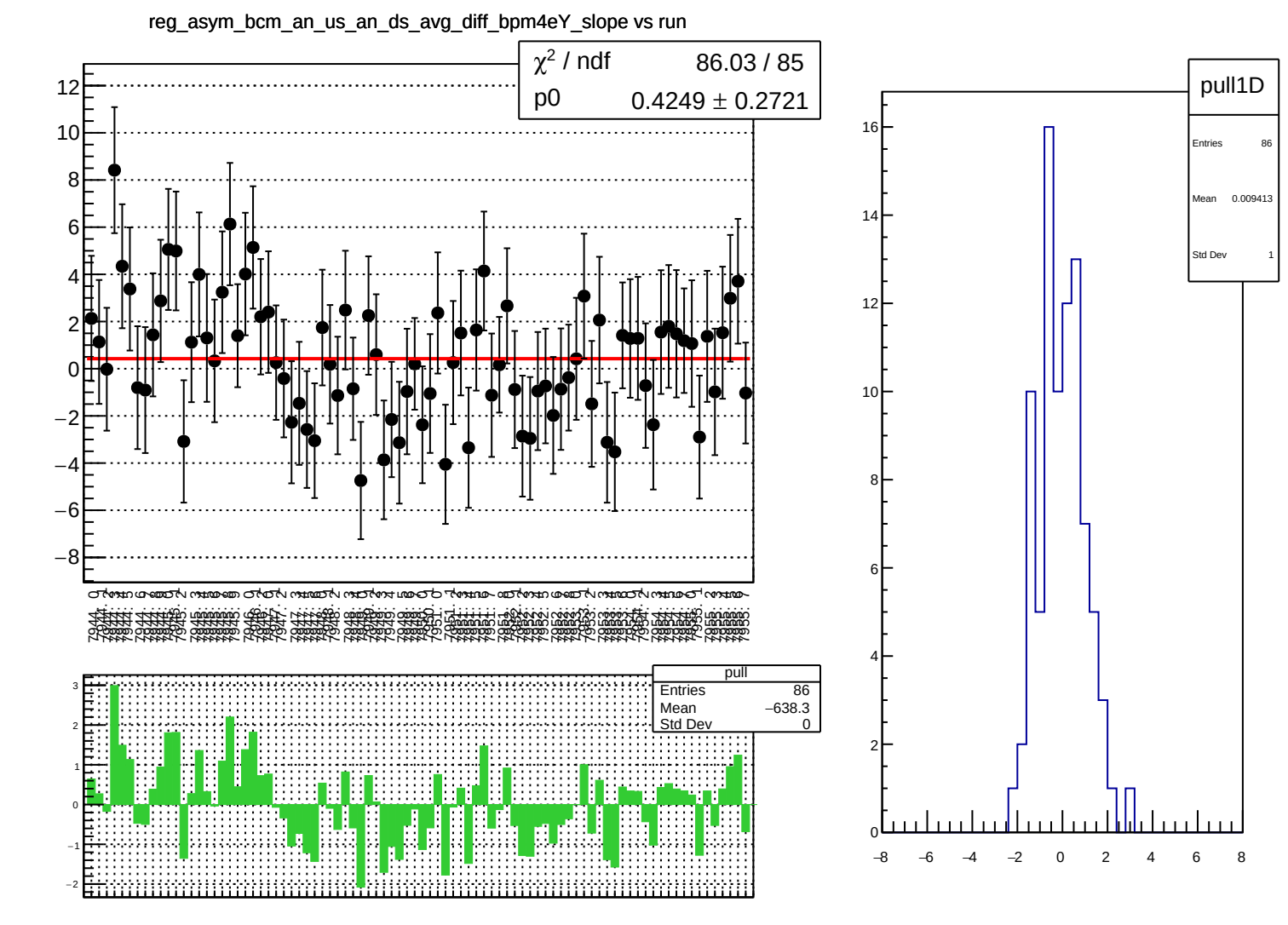

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 181.4 / 85
p0 9.091 ± 0.2291
pull
Entries 86
Mean 129.3
Std Dev 91.46
pull1D
Entries 86
Mean 0.02655
Std Dev 1.452

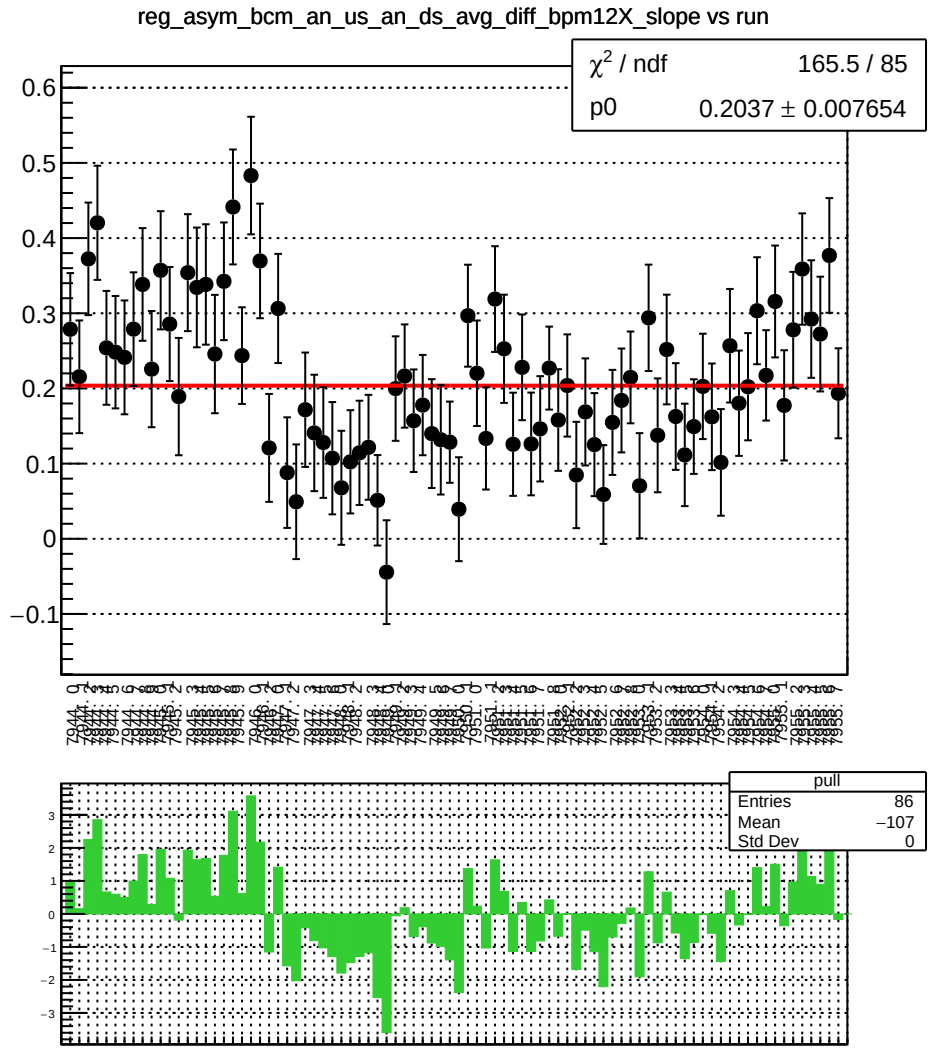

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.18 / 85
p0 −1.49 ± 0.2367
pull
Entries 86
Mean −477.6
Std Dev 0

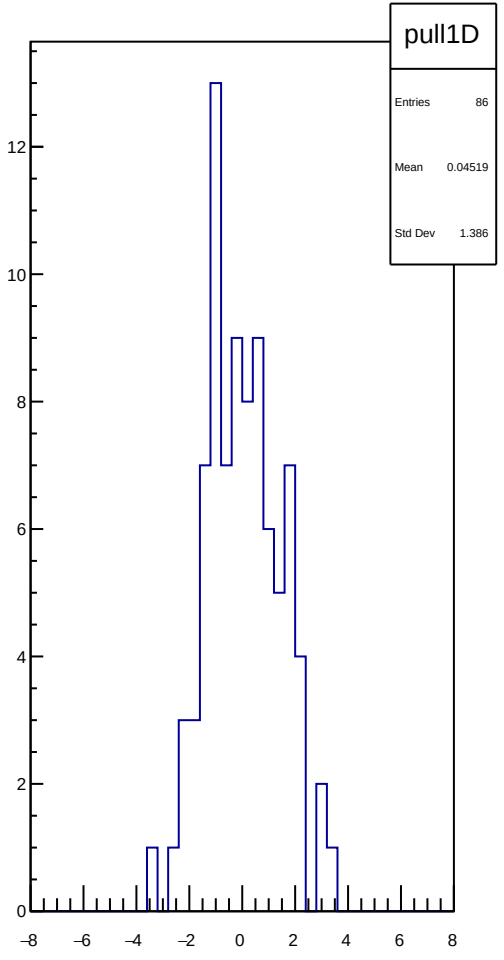

pull1D
Entries 86
Mean −0.007479
Std Dev 0.9349

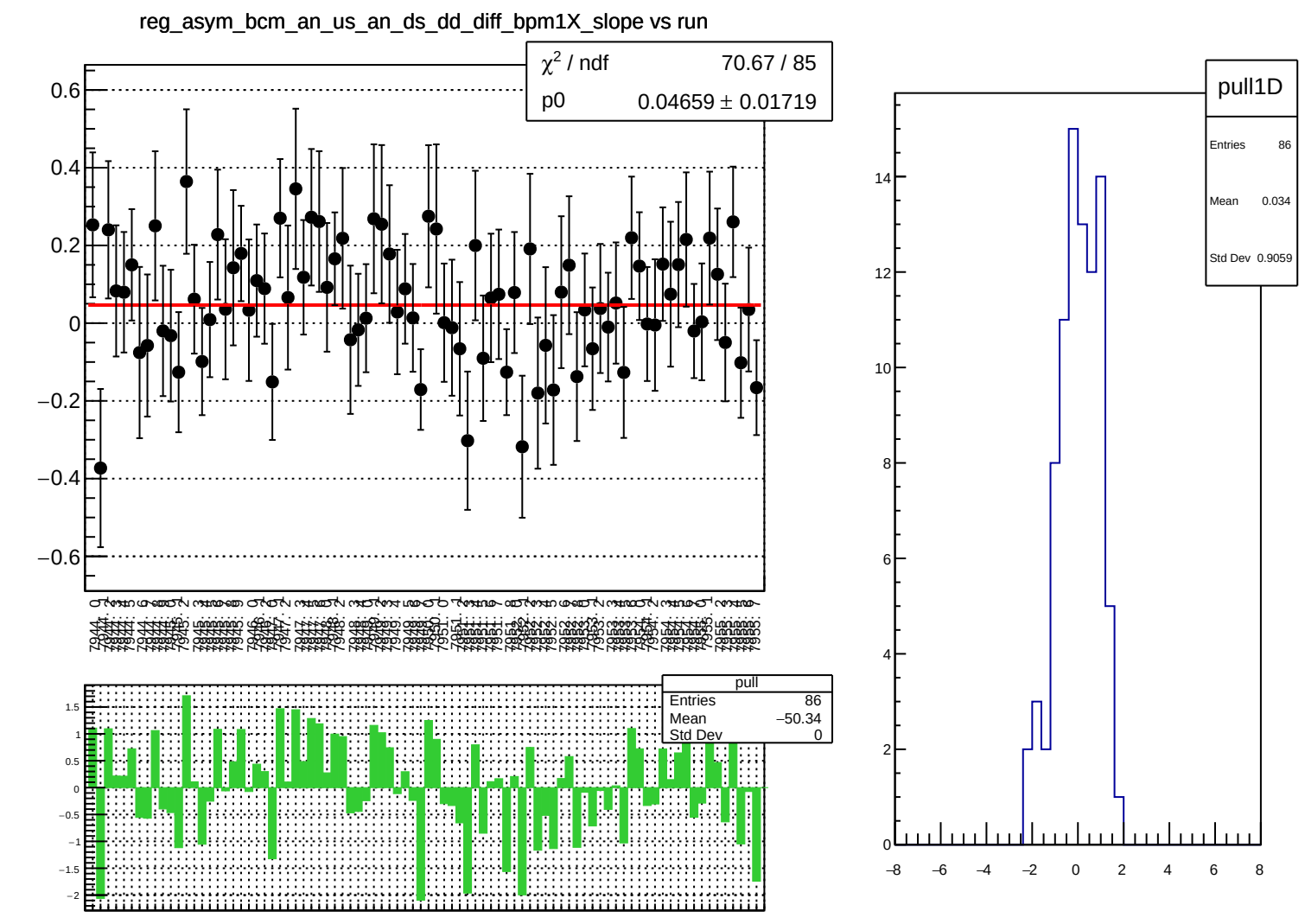

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 186.6 / 85
p0 −8.135 ± 0.2034
pull
Entries 86
Mean 133.3
Std Dev 51.12

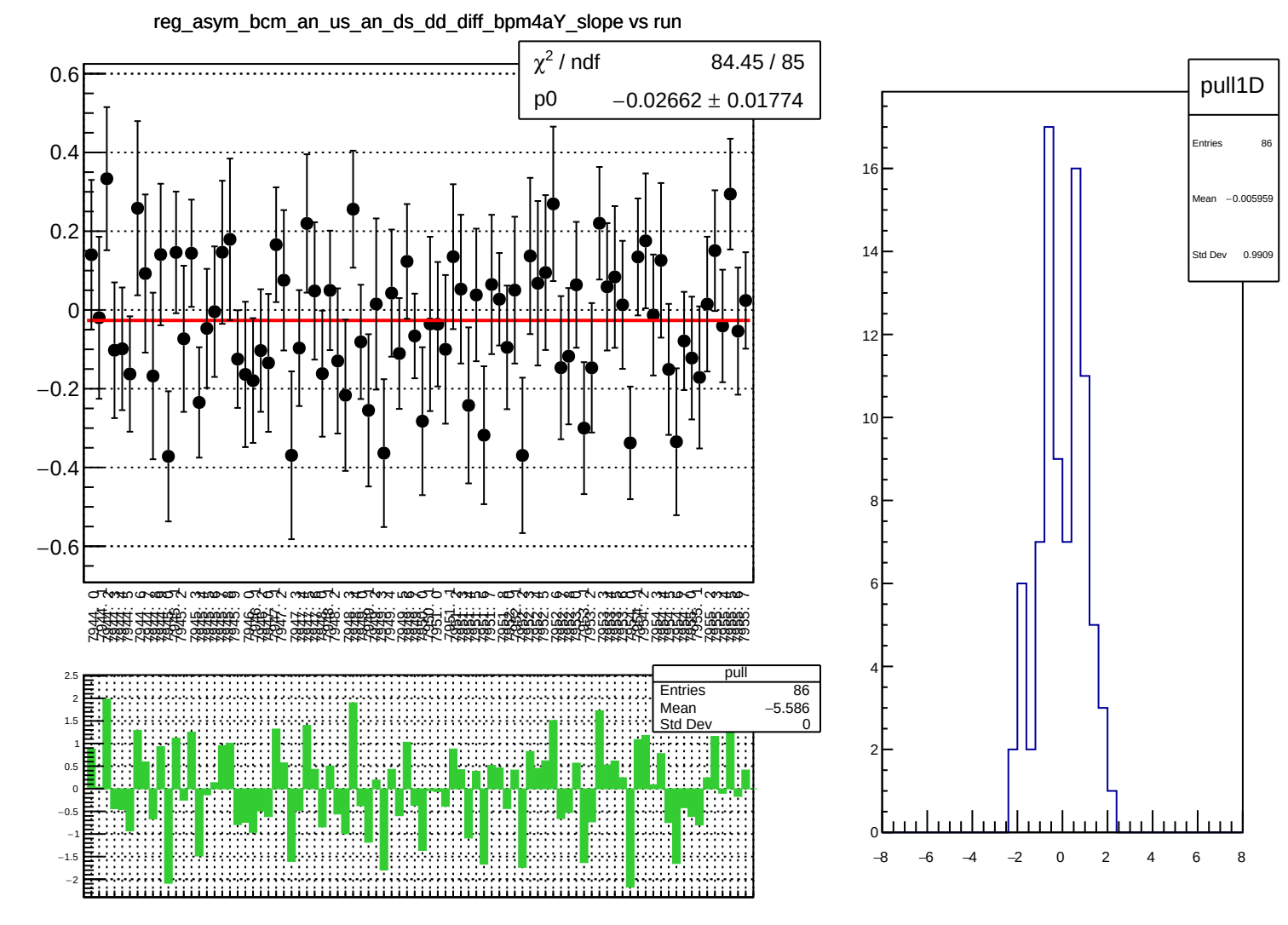

pull1D
Entries 86
Mean −0.03945
Std Dev 1.472

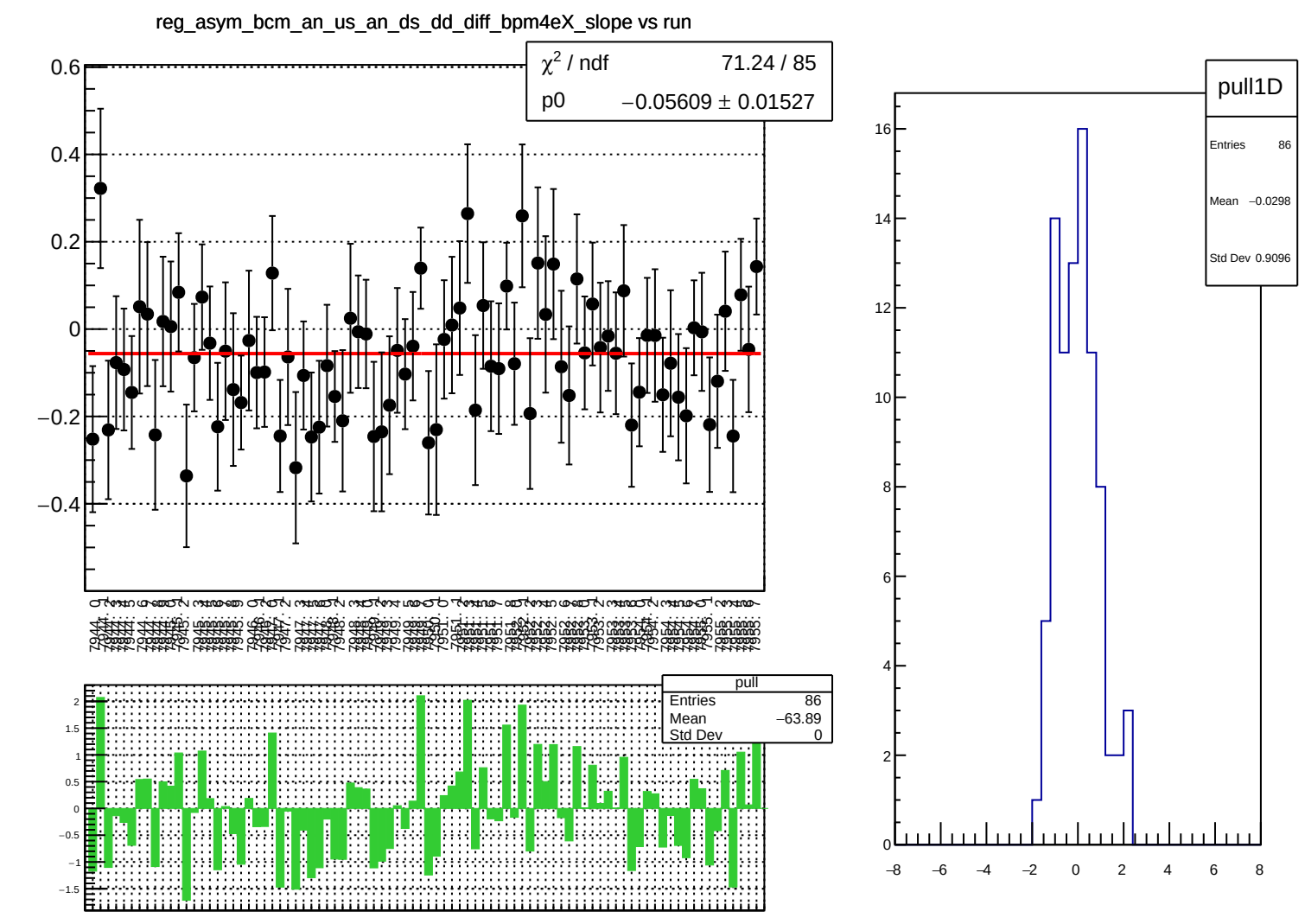

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.03 / 85
p0 0.4249 ± 0.2721
pull
Entries 86
Mean −638.3
Std Dev 0
pull1D
Entries 86
Mean 0.009413
Std Dev 1

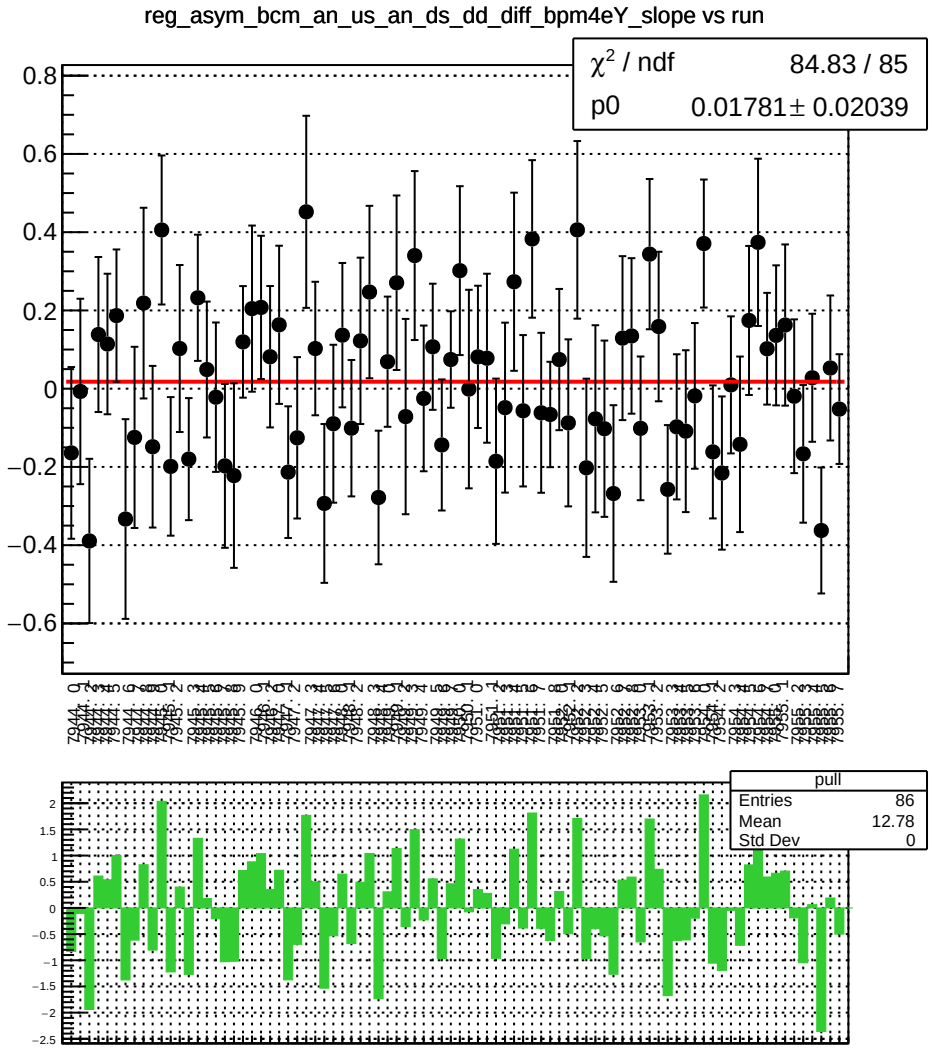

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 165.5 / 85
p0 0.2037 ± 0.007654
pull
Entries 86
Mean −107
Std Dev 0

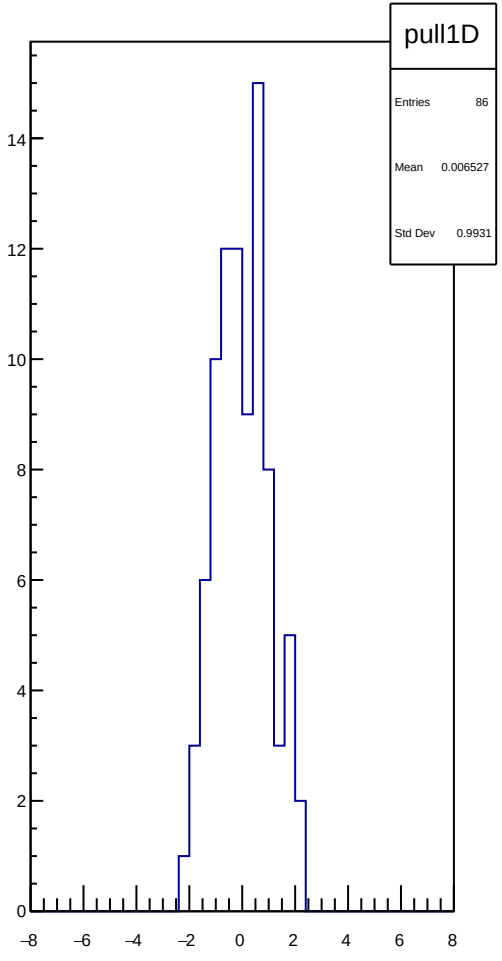

pull1D
Entries 86
Mean 0.04519
Std Dev 1.386

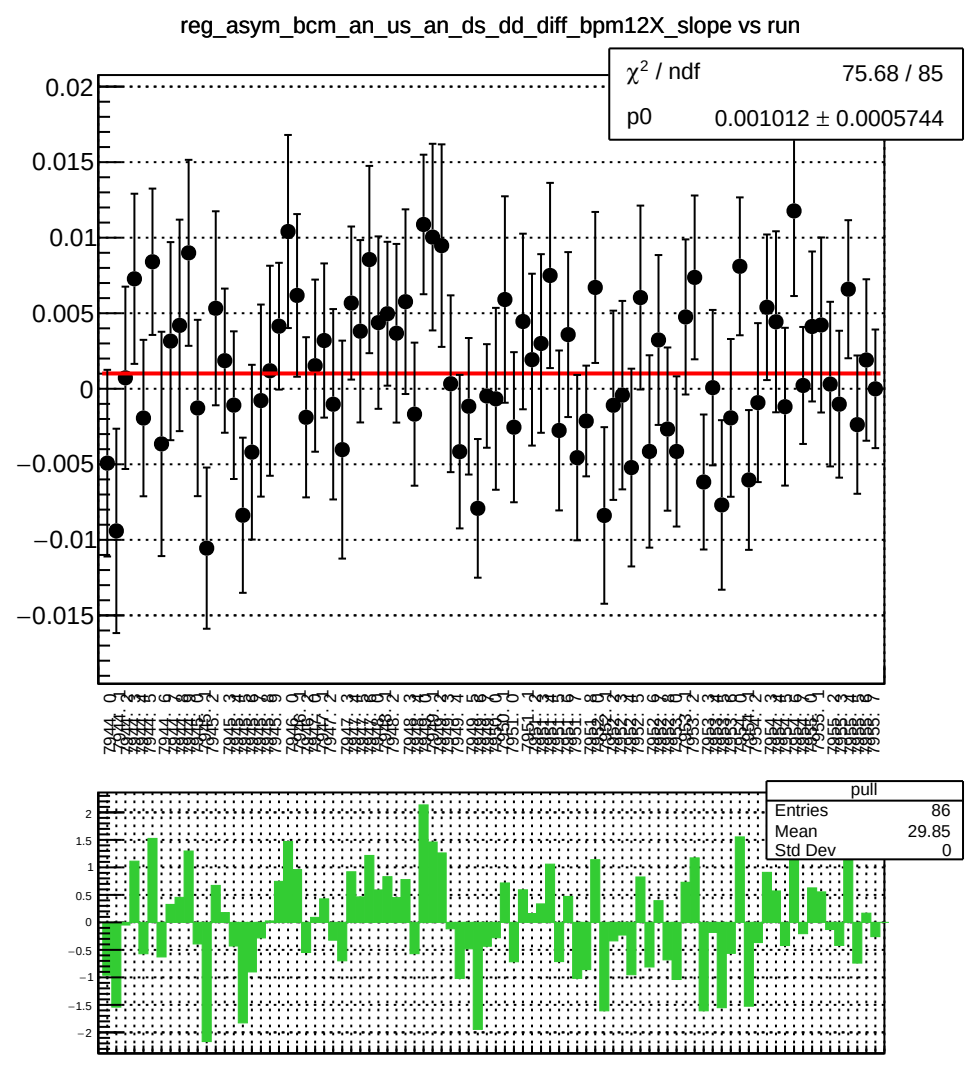

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 70.67 / 85
p0 0.04659 ± 0.01719
pull
Entries 86
Mean −50.34
Std Dev 0
pull1D
Entries 86
Mean 0.034
Std Dev 0.9059

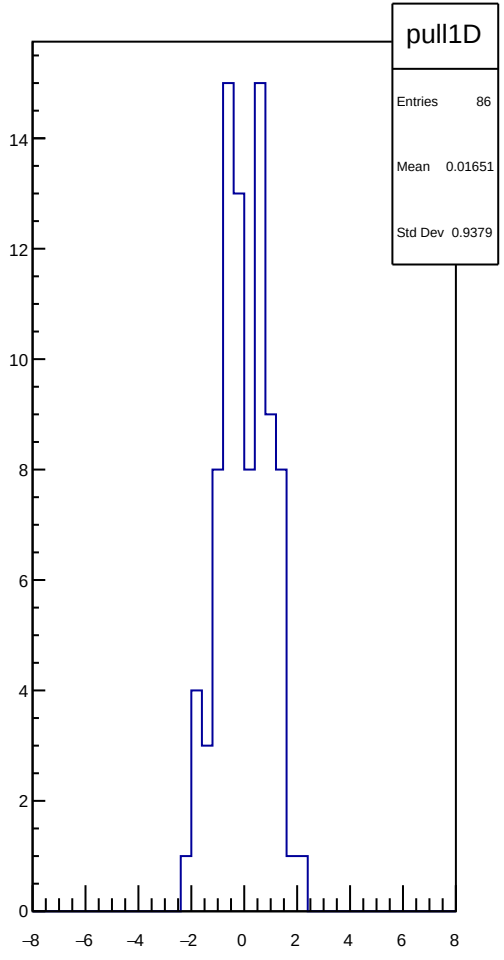

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.45 / 85
p0 −0.02662 ± 0.01774
pull
Entries 86
Mean −5.586
Std Dev 0
pull1D
Entries 86
Mean −0.005959
Std Dev 0.9909

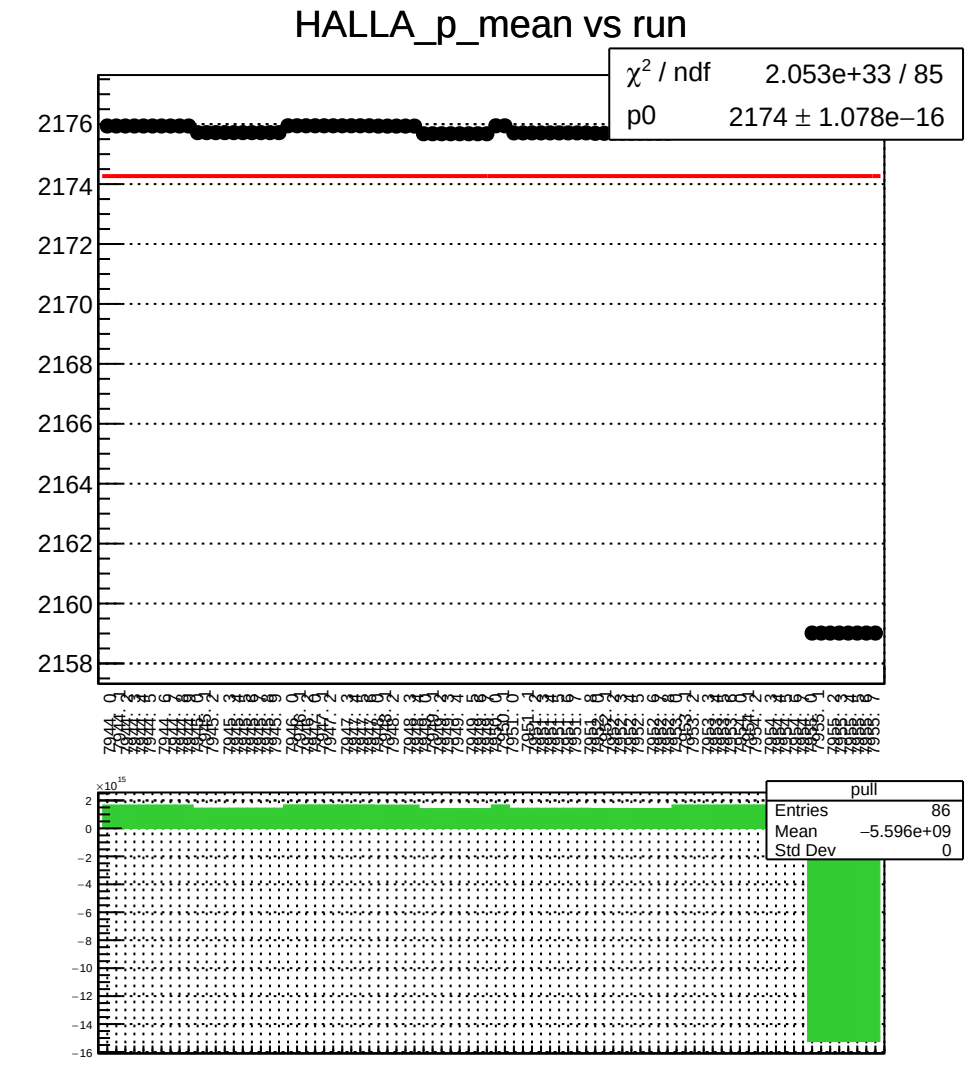

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.24 / 85
p0 −0.05609 ± 0.01527
pull
Entries 86
Mean −63.89
Std Dev 0
pull1D
Entries 86
Mean −0.0298
Std Dev 0.9096

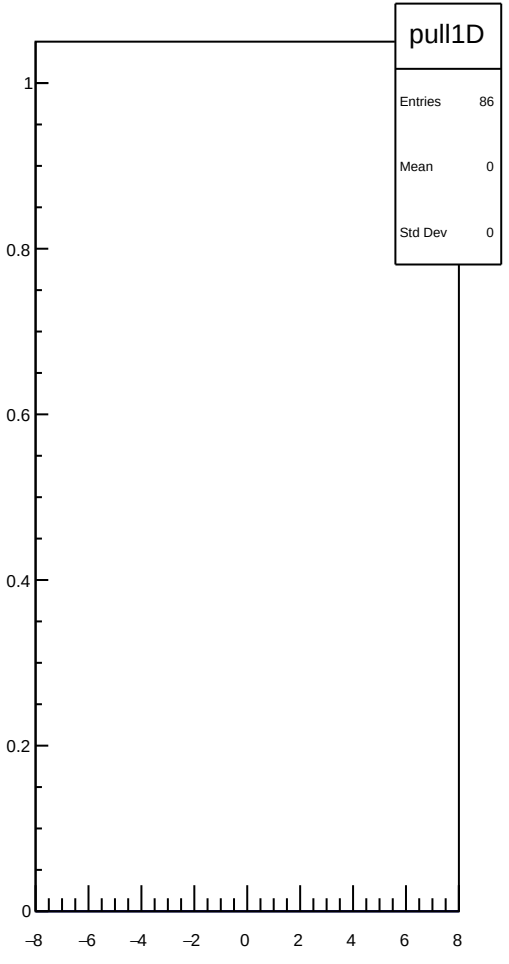

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.83 / 85
p0 0.01781 ± 0.02039
pull
Entries 86
Mean 12.78
Std Dev 0

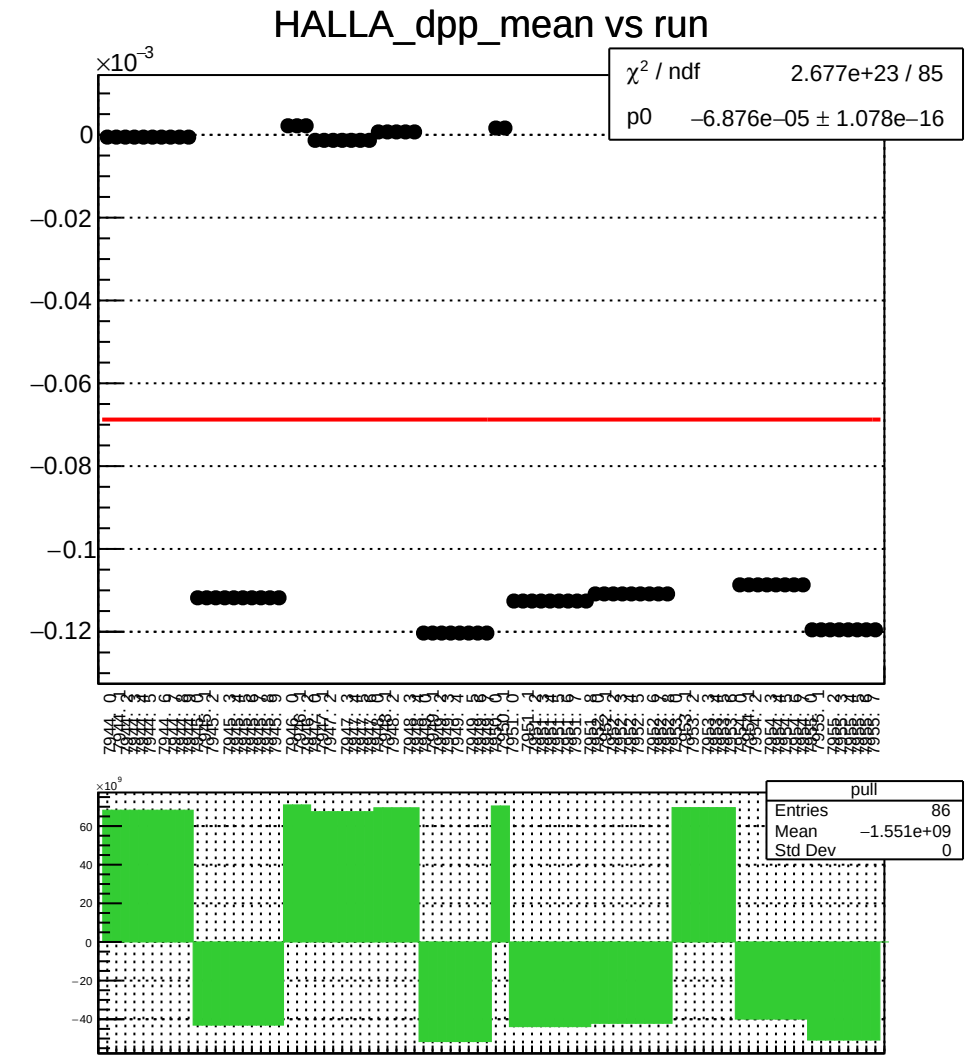

pull1D
Entries 86
Mean 0.006527
Std Dev 0.9931

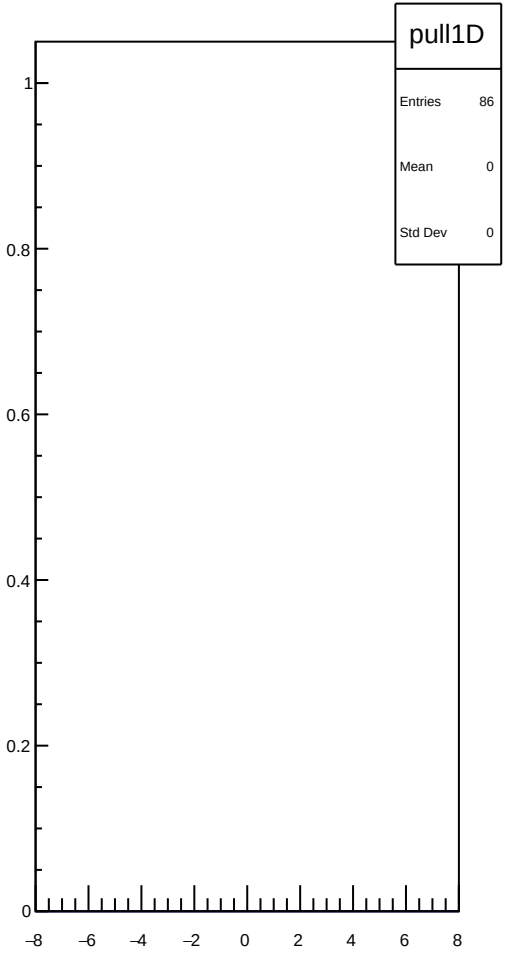

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 75.68 / 85
p0 0.001012 ± 0.0005744
pull
Entries 86
Mean 29.85
Std Dev 0

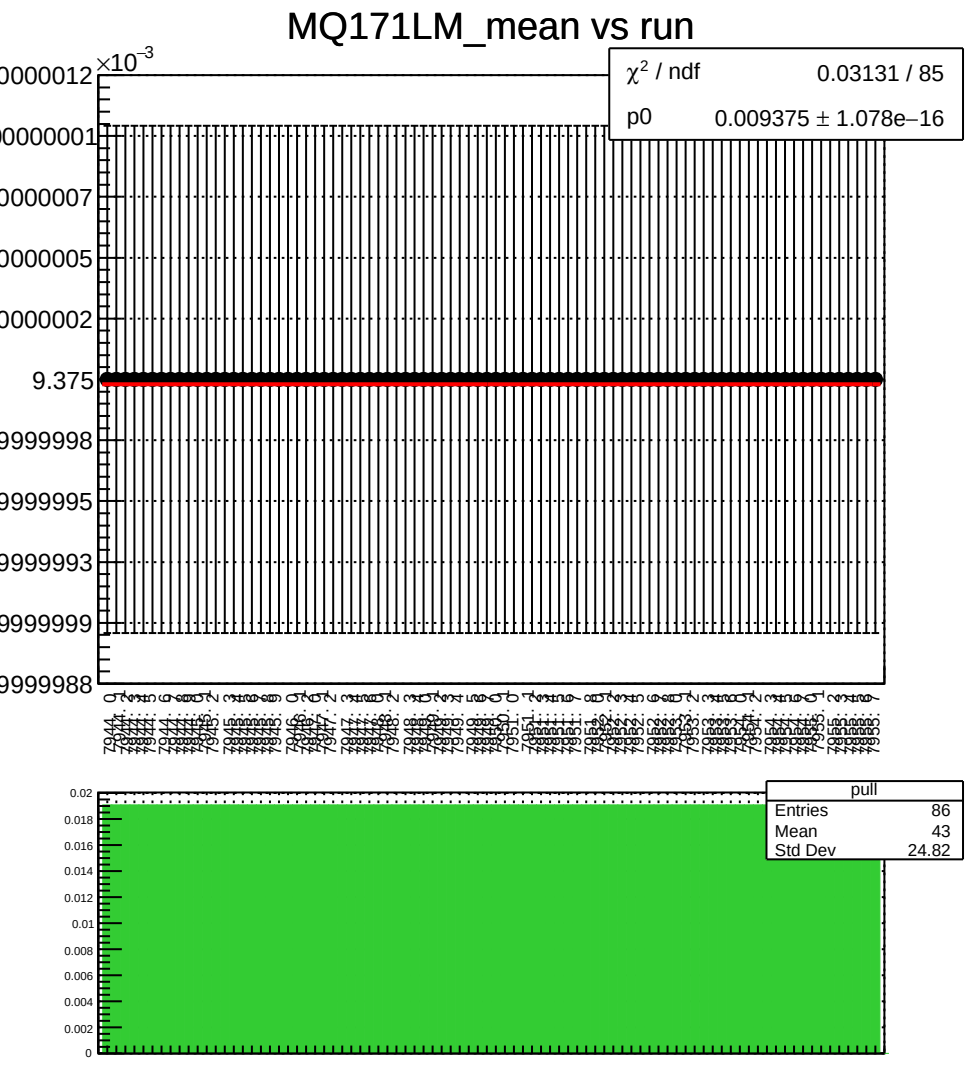

pull1D
Entries 86
Mean 0.01651
Std Dev 0.9379

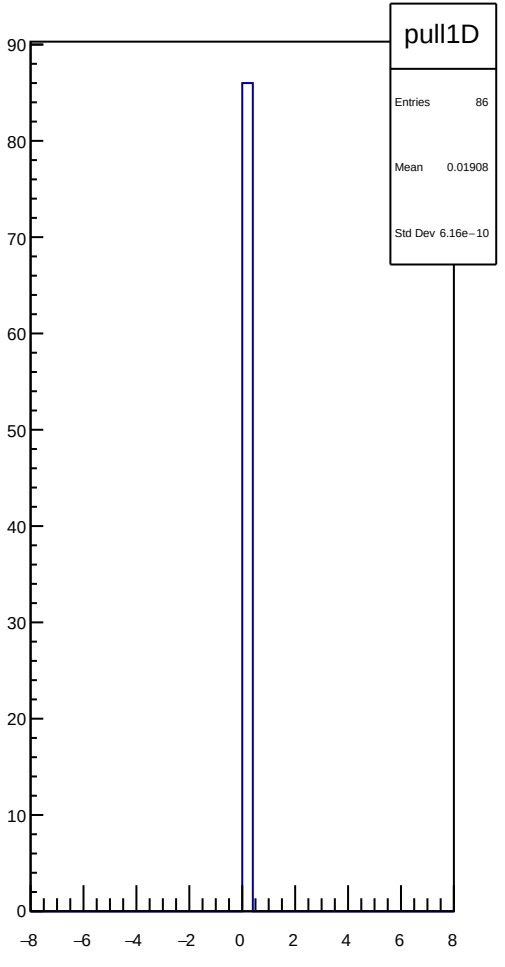

HALLA_p_mean vs run
χ² / ndf 2.053e+33 / 85
p0 2174 ± 1.078e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 86
Mean −5.596e+09
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

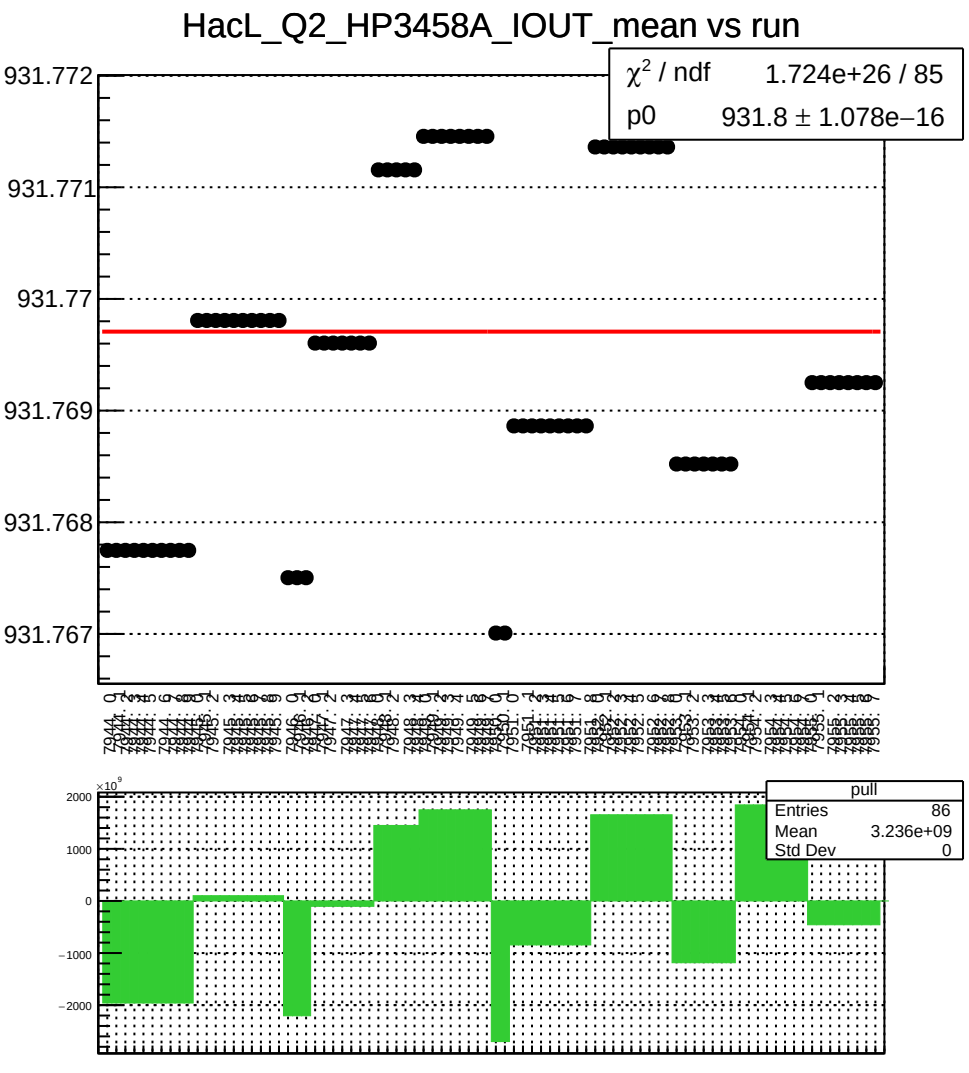

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

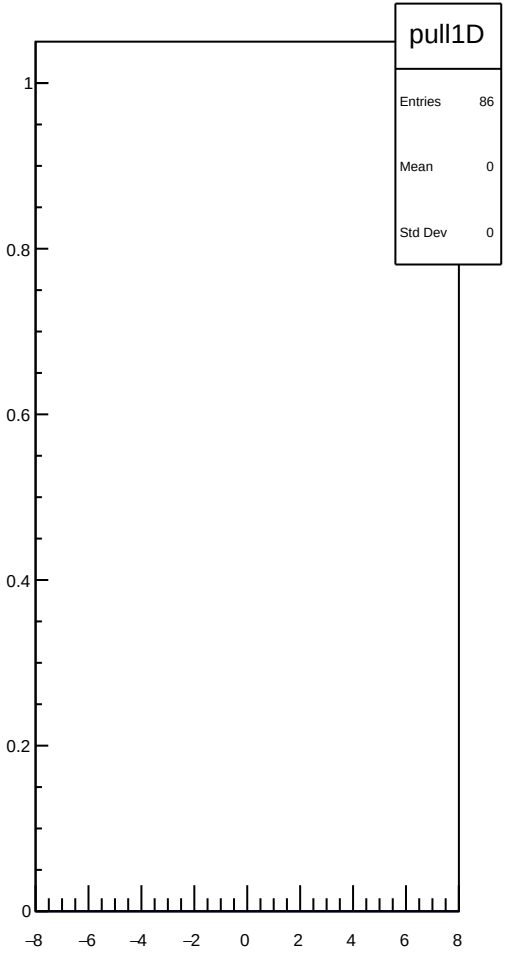

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.677e+23 / 85
p0 −6.876e−05 ± 1.078e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 86
Mean −1.551e+09
Std Dev 0
60
40
20
0
−20
−40

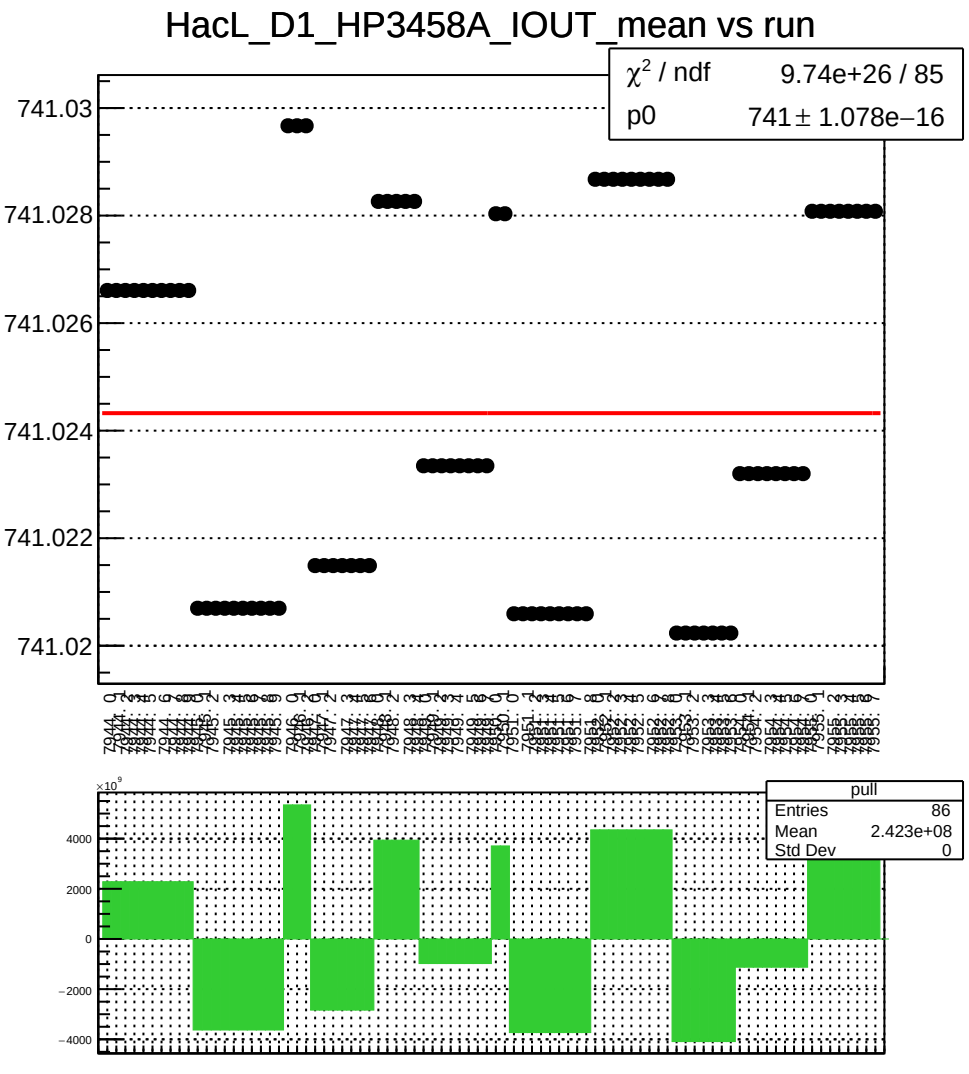

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

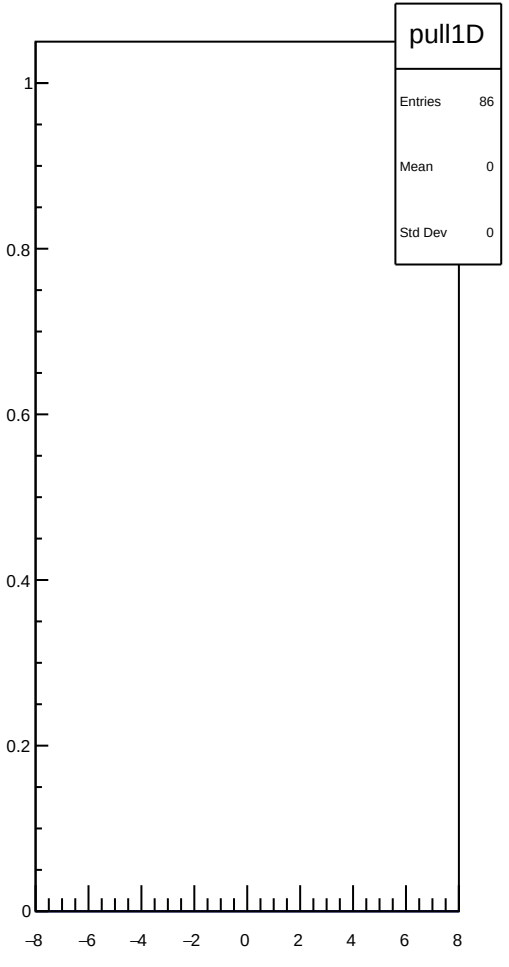

MQ171LM_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82

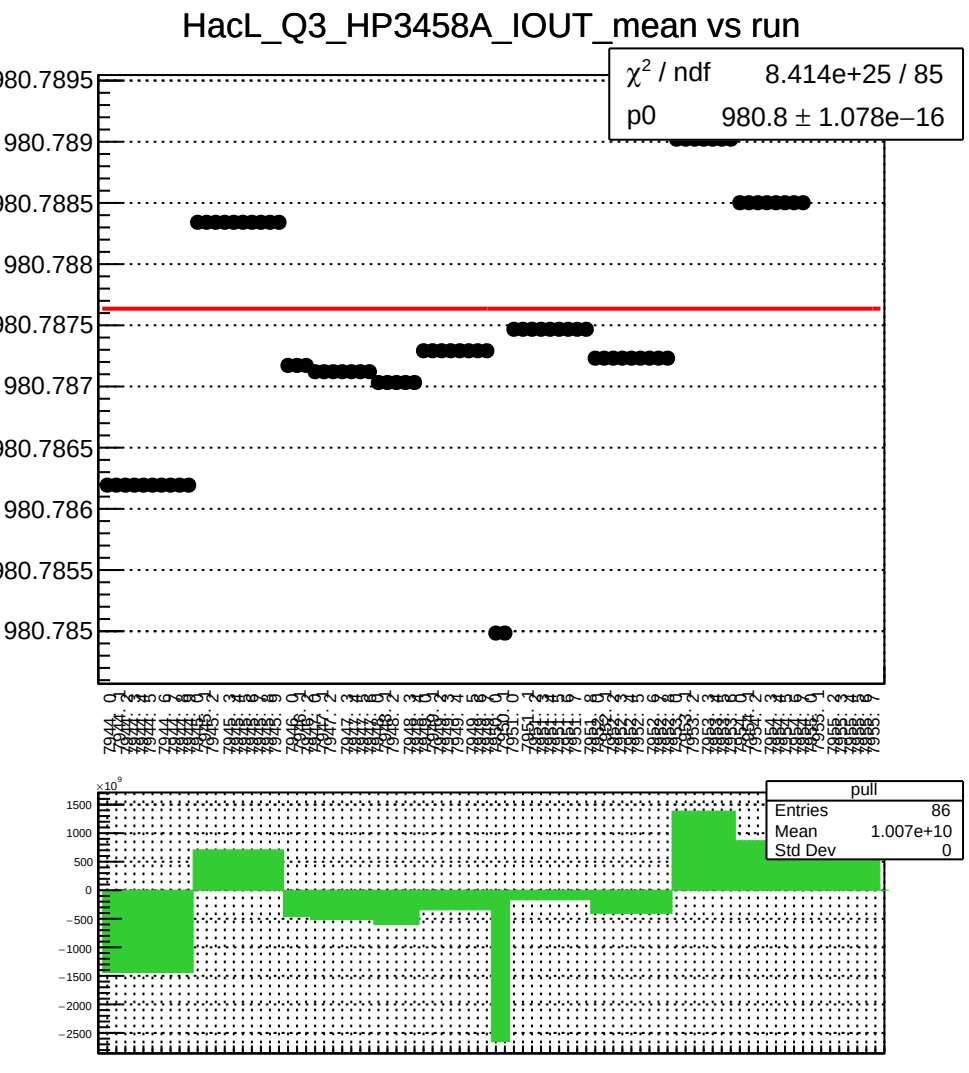

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

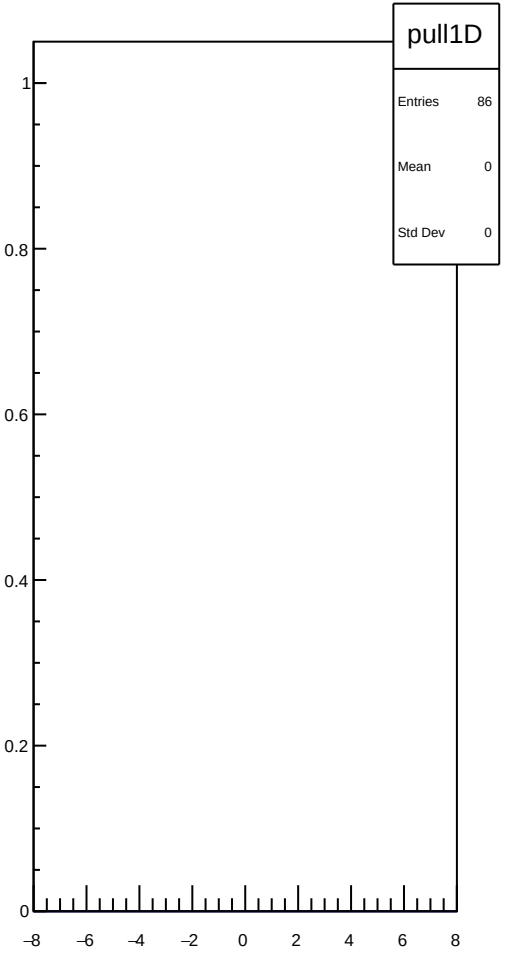

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.724e+26 / 85
p0 931.8 ± 1.078e−16
931.772
931.771
931.77
931.769
931.768
931.767
pull
Entries 86
Mean 3.236e+09
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000

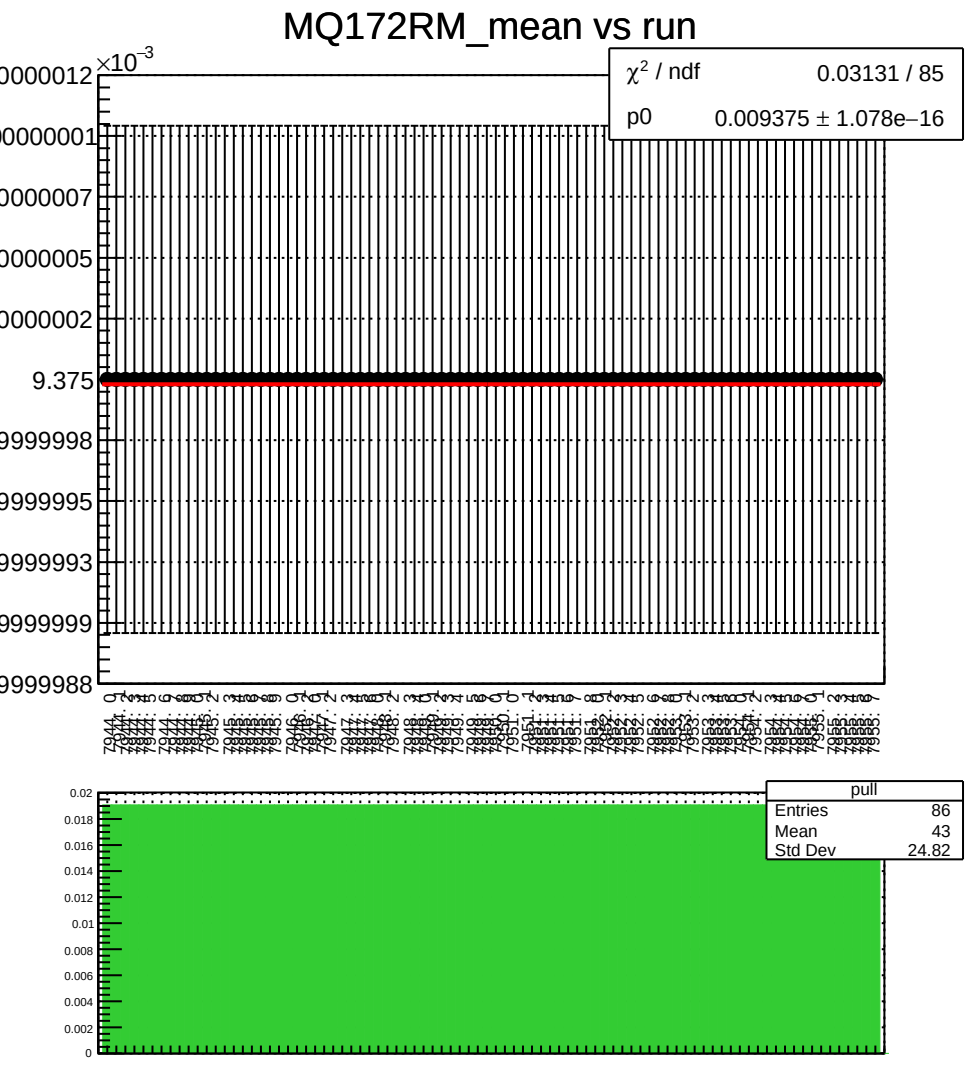

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

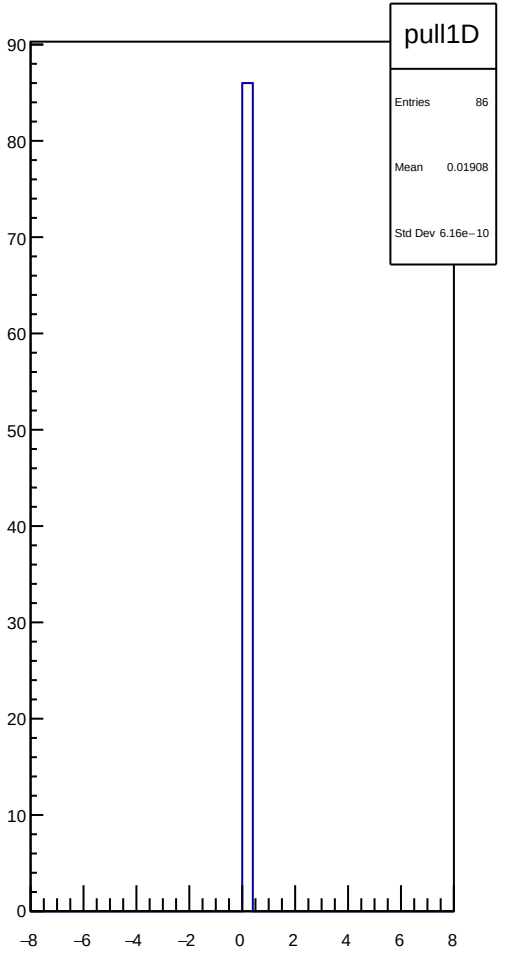

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 9.74e+26 / 85
p0 741 ± 1.078e−16
741.03
741.028
741.026
741.024
741.022
741.02
pull
Entries 86
Mean 2.423e+08
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000

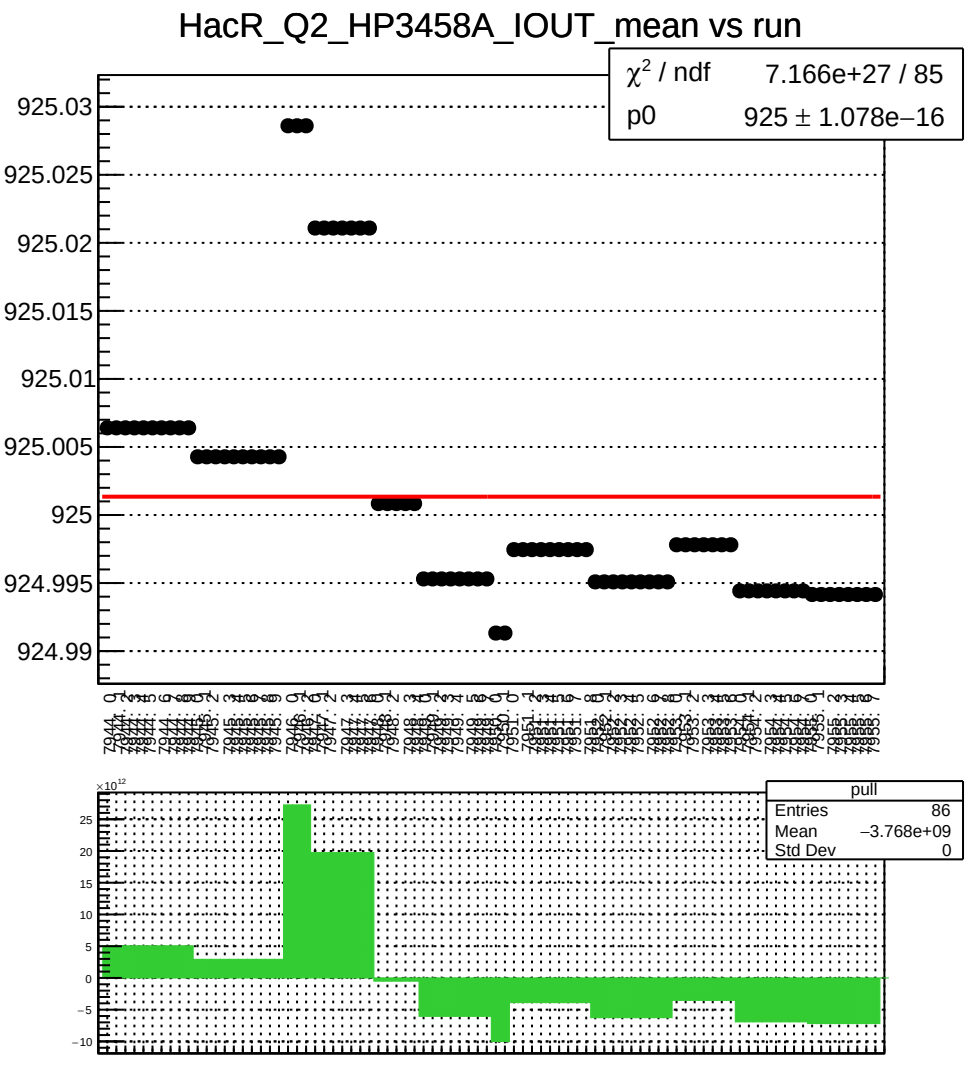

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

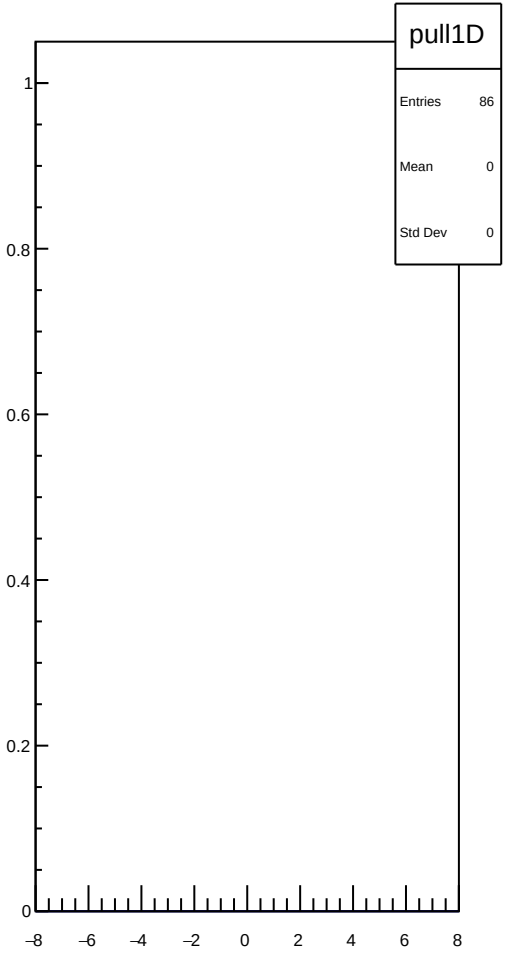

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 8.414e+25 / 85
p0 980.8 ± 1.078e−16
980.7895
980.789
980.7885
980.788
980.7875
980.787
980.7865
980.786
980.7855
980.785
pull
Entries 86
Mean 1.007e+10
Std Dev 0
×10⁹
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

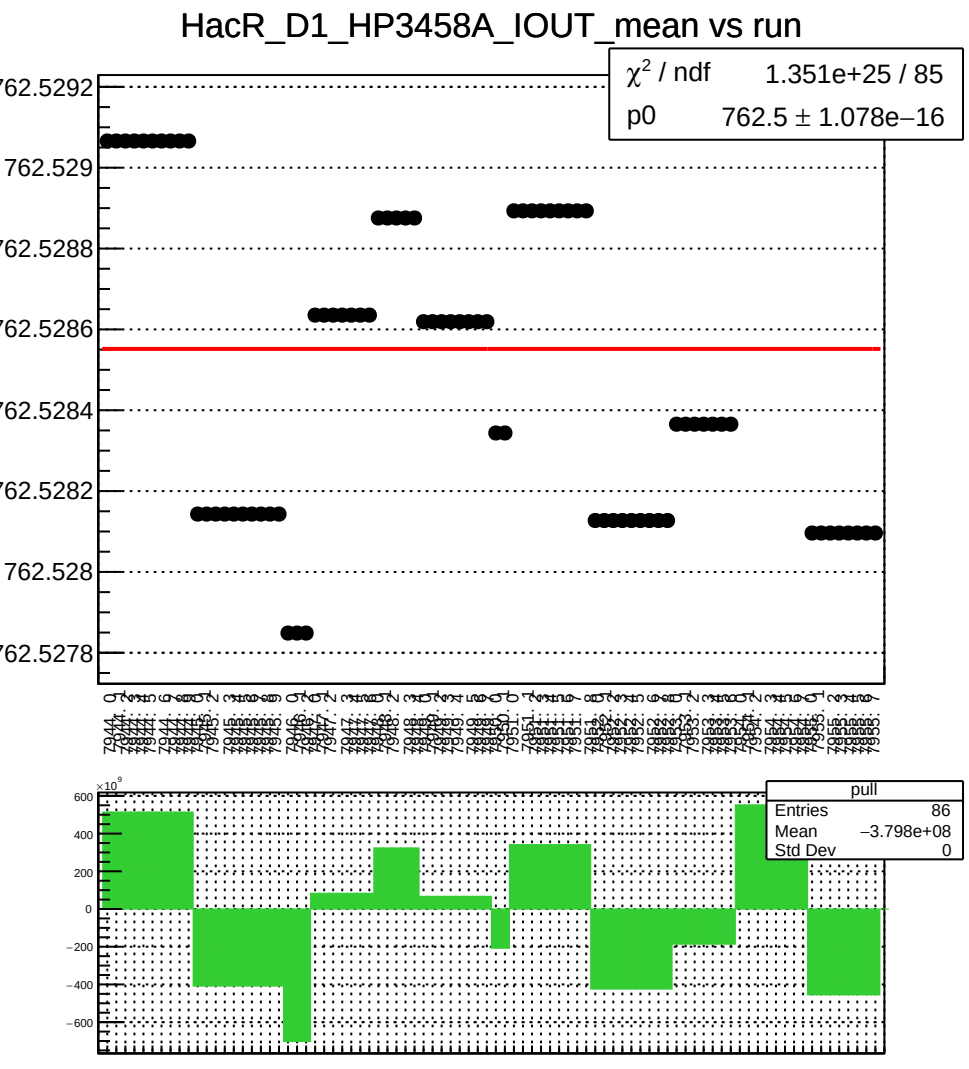

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

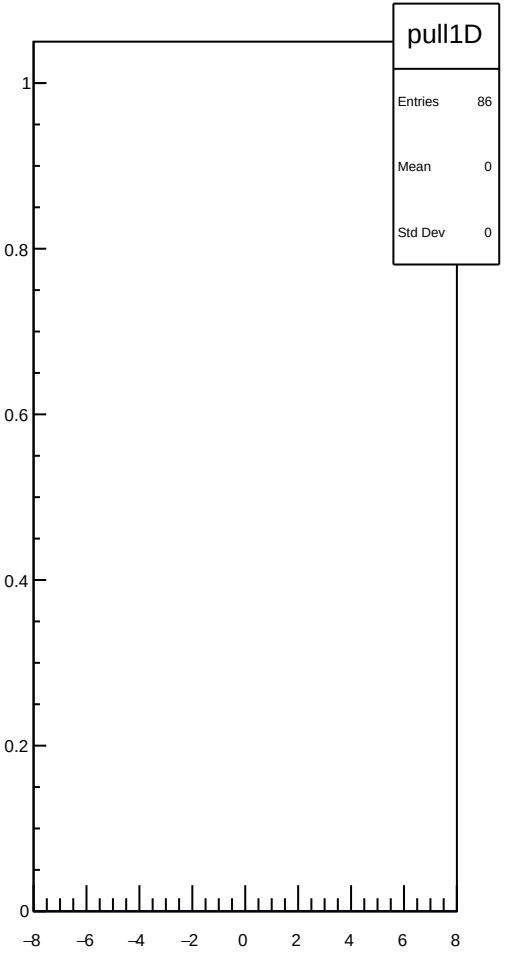

MQ172RM_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82

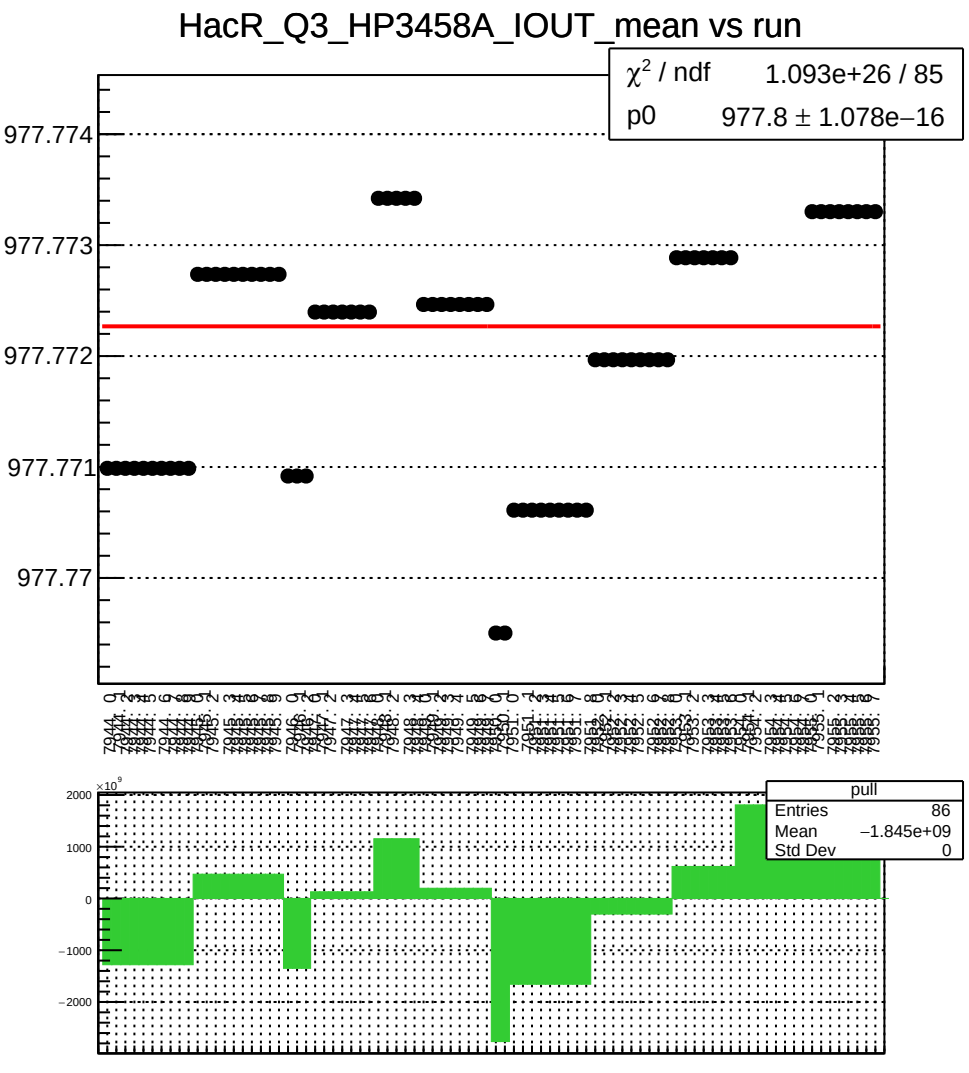

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

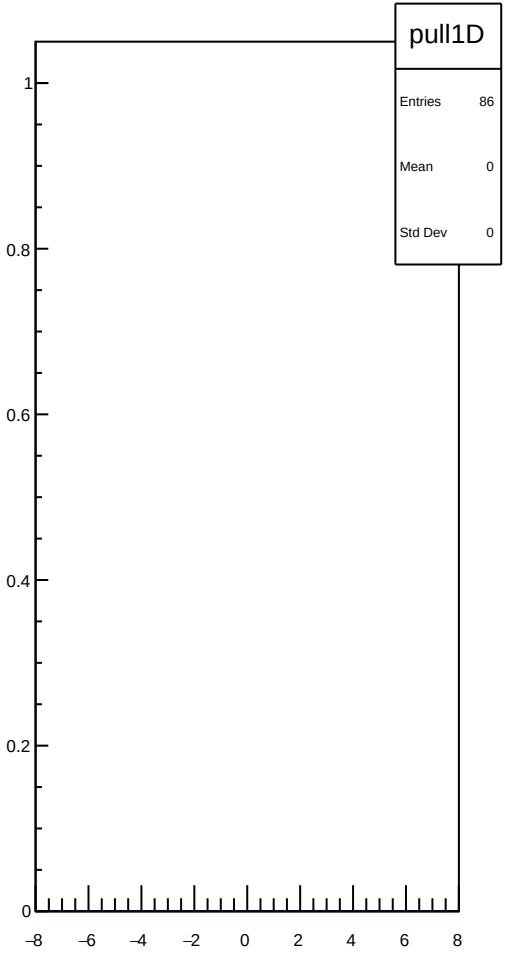

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 7.166e+27 / 85
p0 925 ± 1.078e−16
925.03
925.025
925.02
925.015
925.01
925.005
925
924.995
924.99
pull
Entries 86
Mean −3.768e+09
Std Dev 0
×10¹²
25
20
15
10
5
0
−5
−10

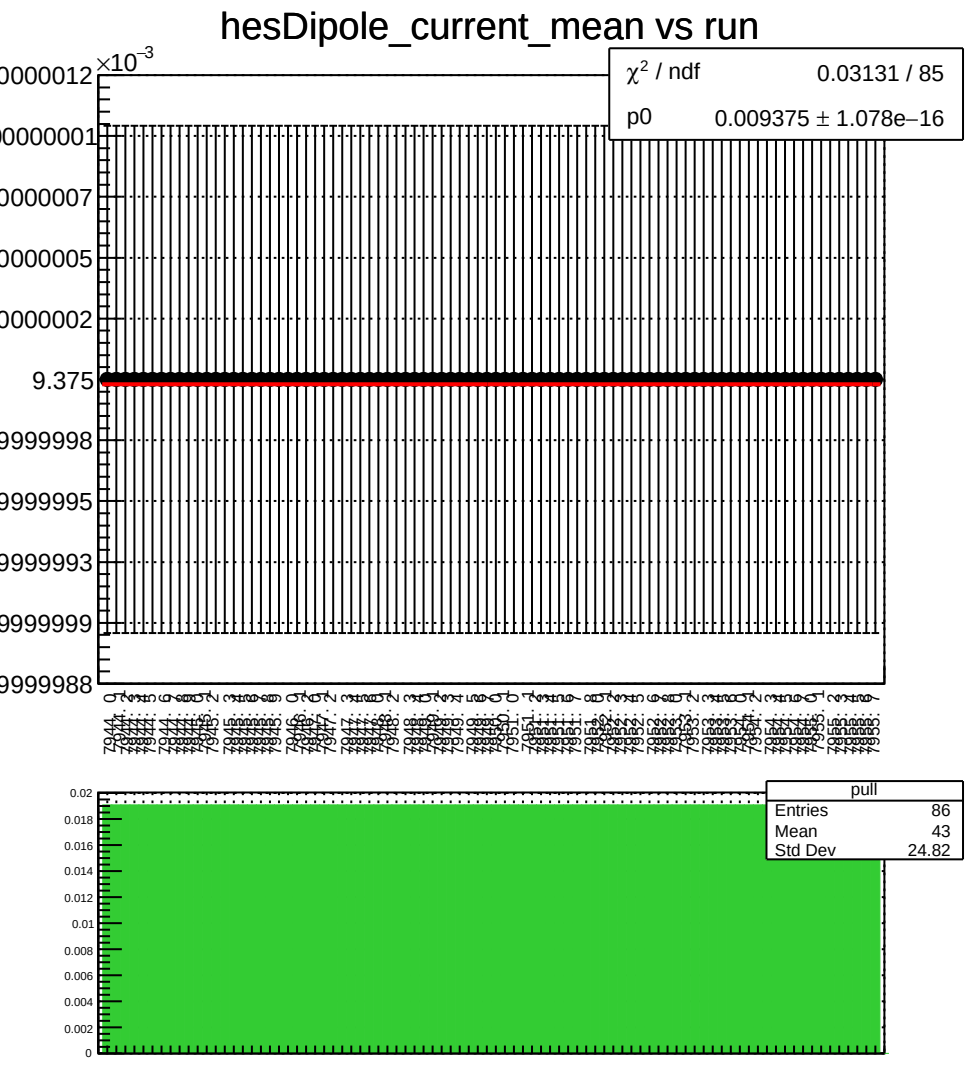

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

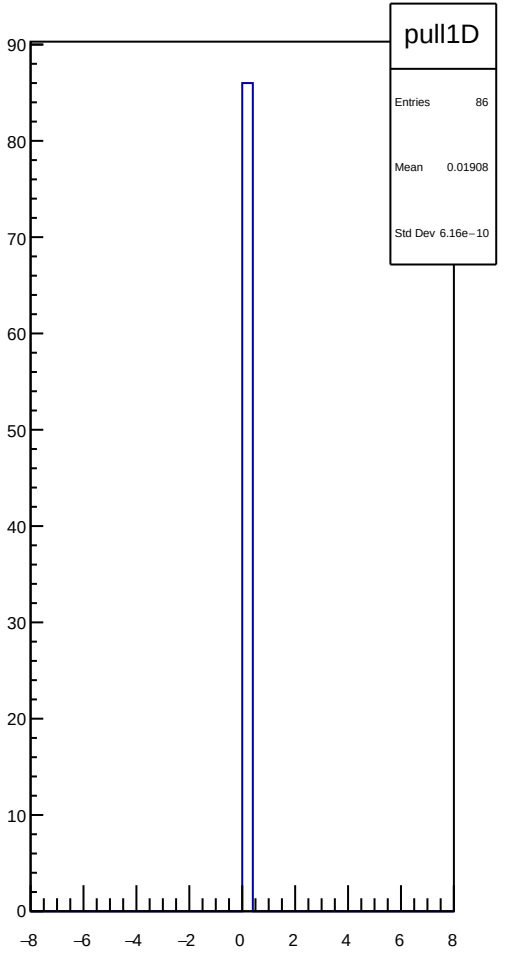

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.351e+25 / 85
p0 762.5 ± 1.078e−16
762.5292
762.529
762.5288
762.5286
762.5284
762.5282
762.528
762.5278
pull
Entries 86
Mean −3.798e+08
Std Dev 0
×10⁹
600
400
200
0
−200
−400
−600

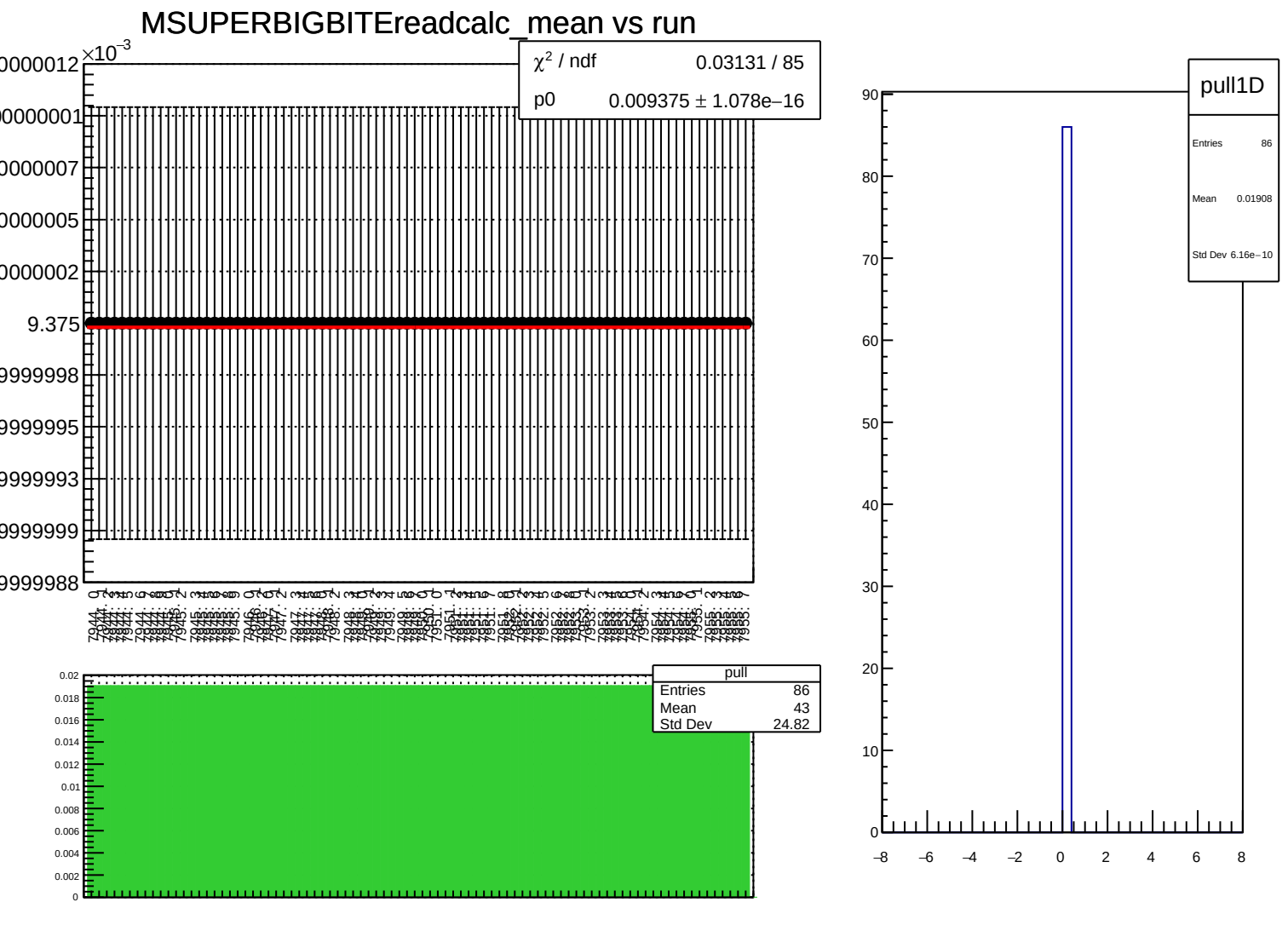

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

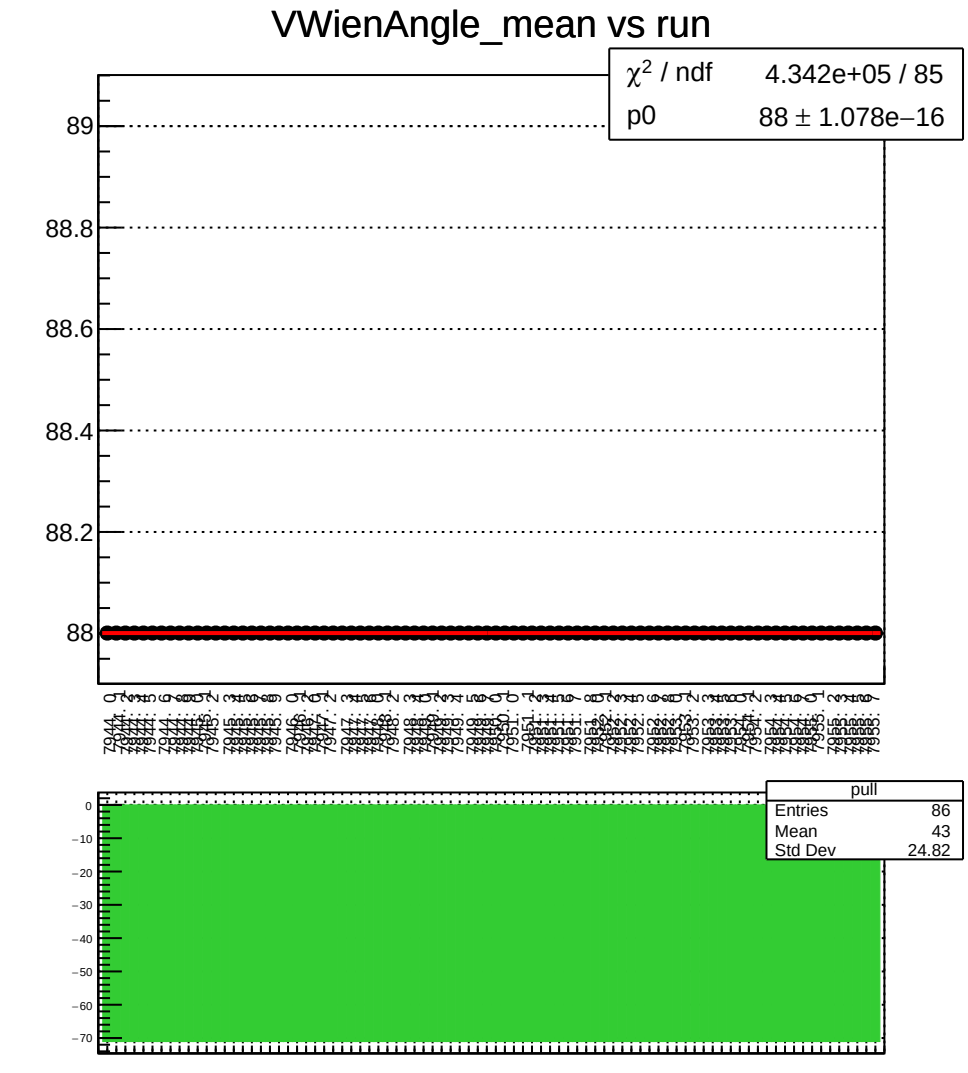

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.093e+26 / 85
p0 977.8 ± 1.078e−16
977.774
977.773
977.772
977.771
977.77
pull
Entries 86
Mean −1.845e+09
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000

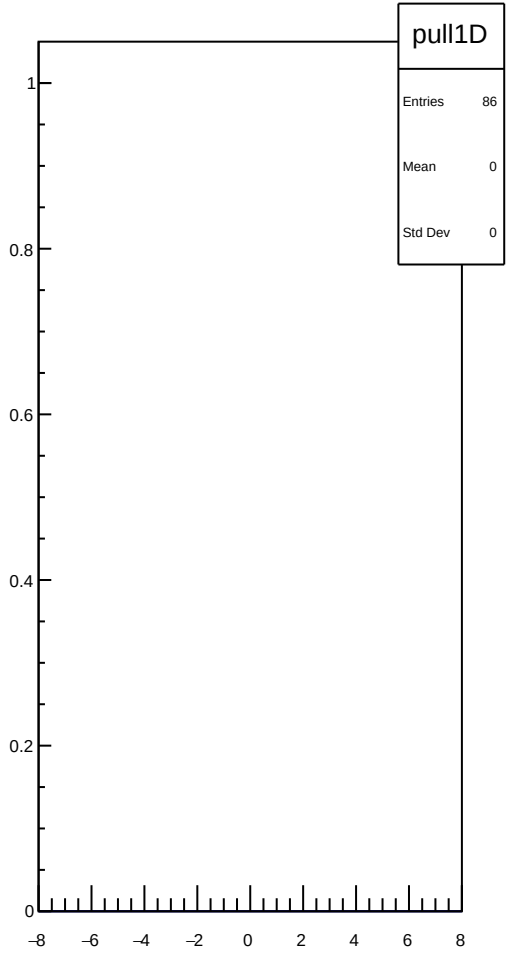

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

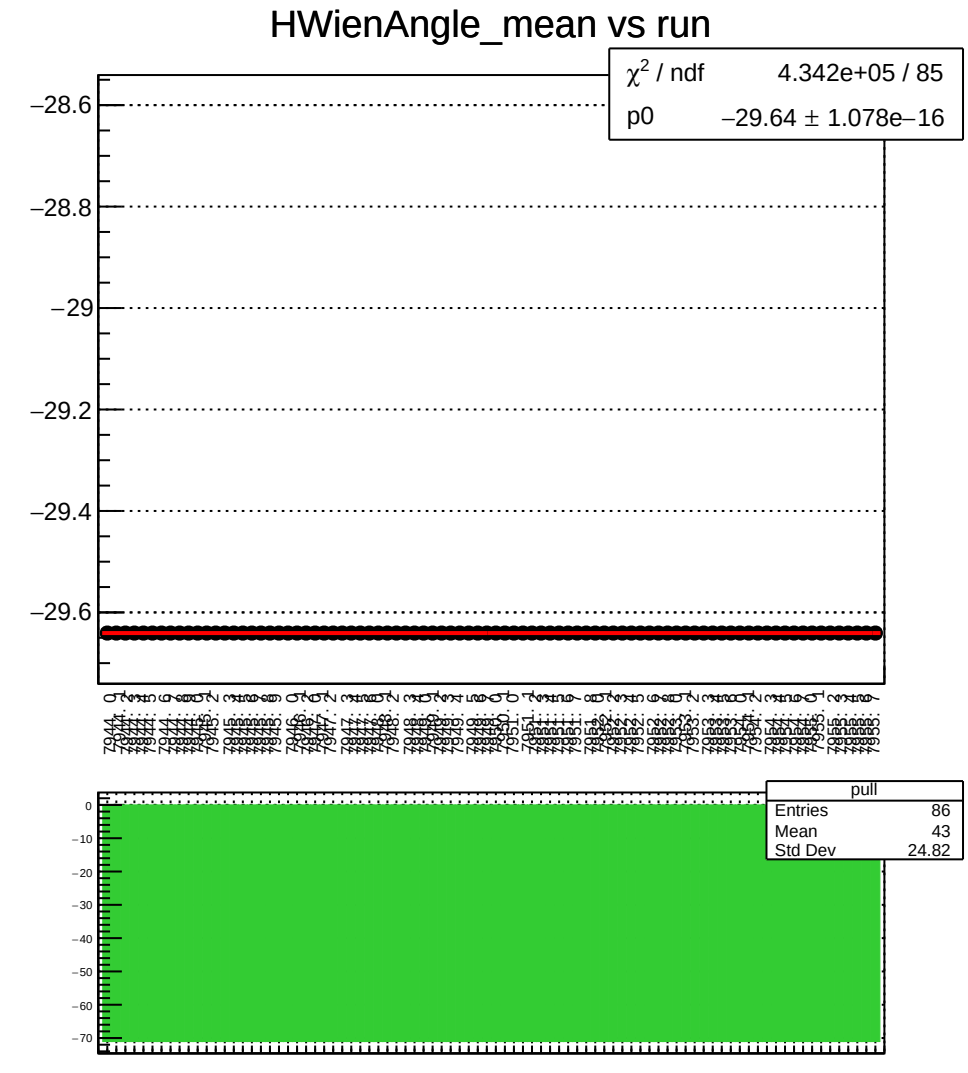

hesDipole_current_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82

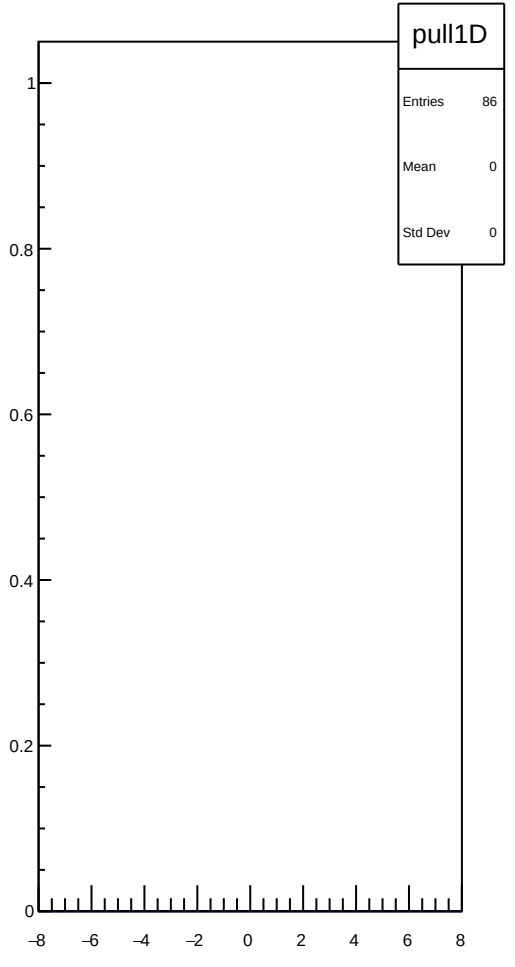

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

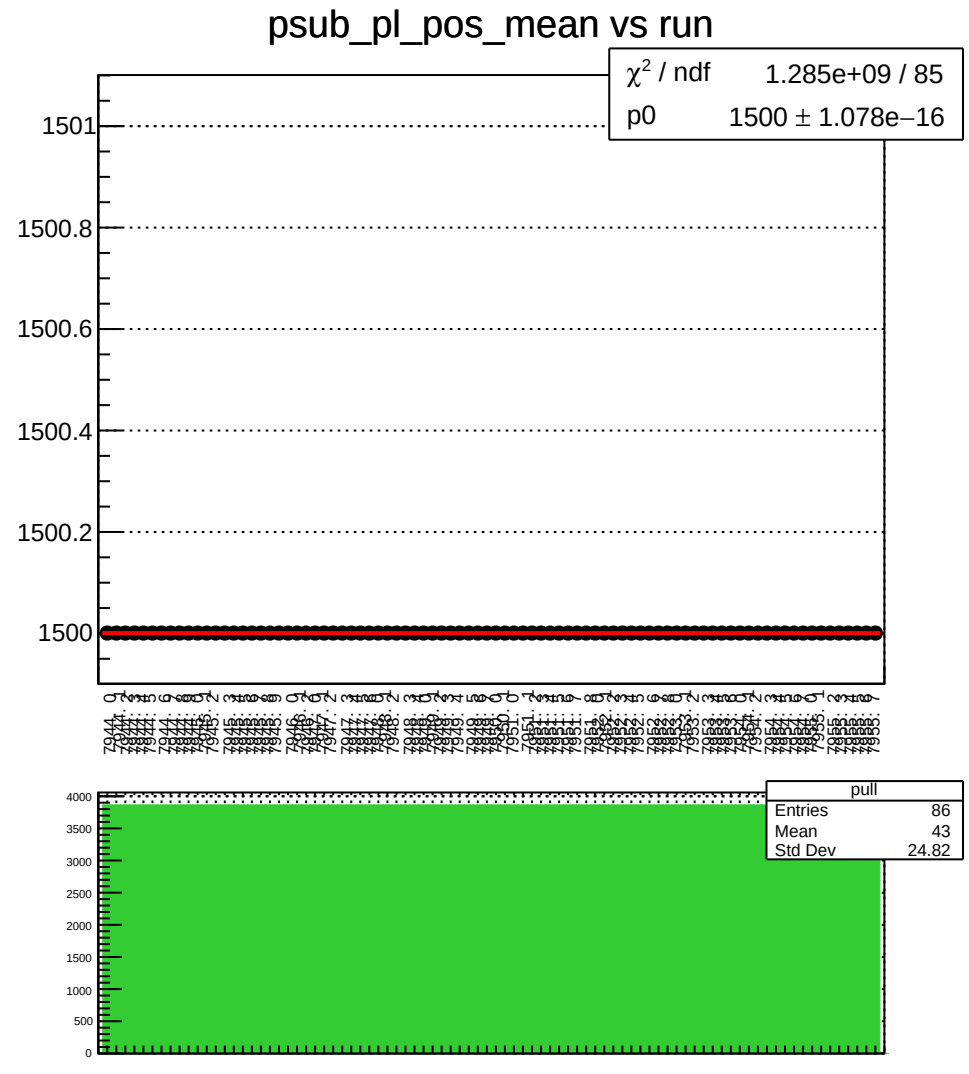

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
9.375
pull
Entries 86
Mean 43
Std Dev 24.82
pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

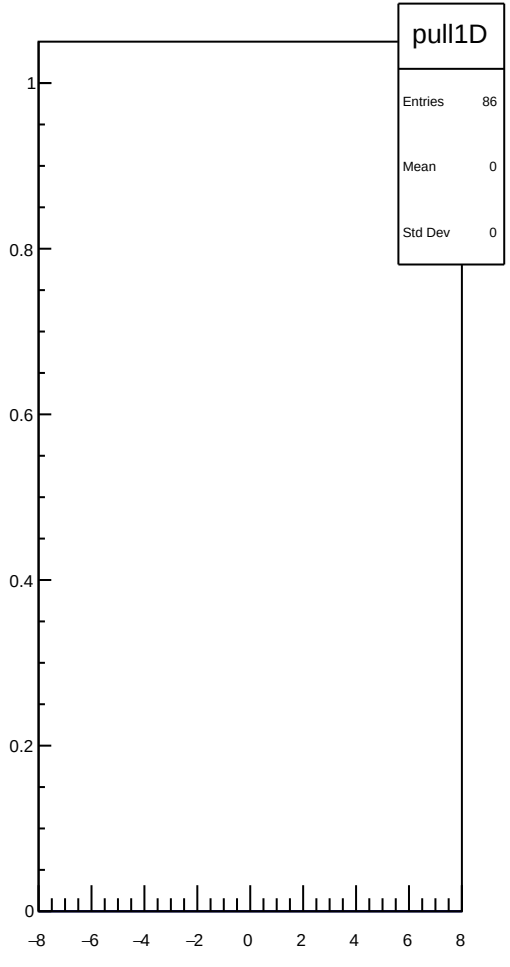

VWienAngle_mean vs run
χ² / ndf 4.342e+05 / 85
p0 88 ± 1.078e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 86
Mean 43
Std Dev 24.82
0
−10
−20
−30
−40
−50
−60
−70

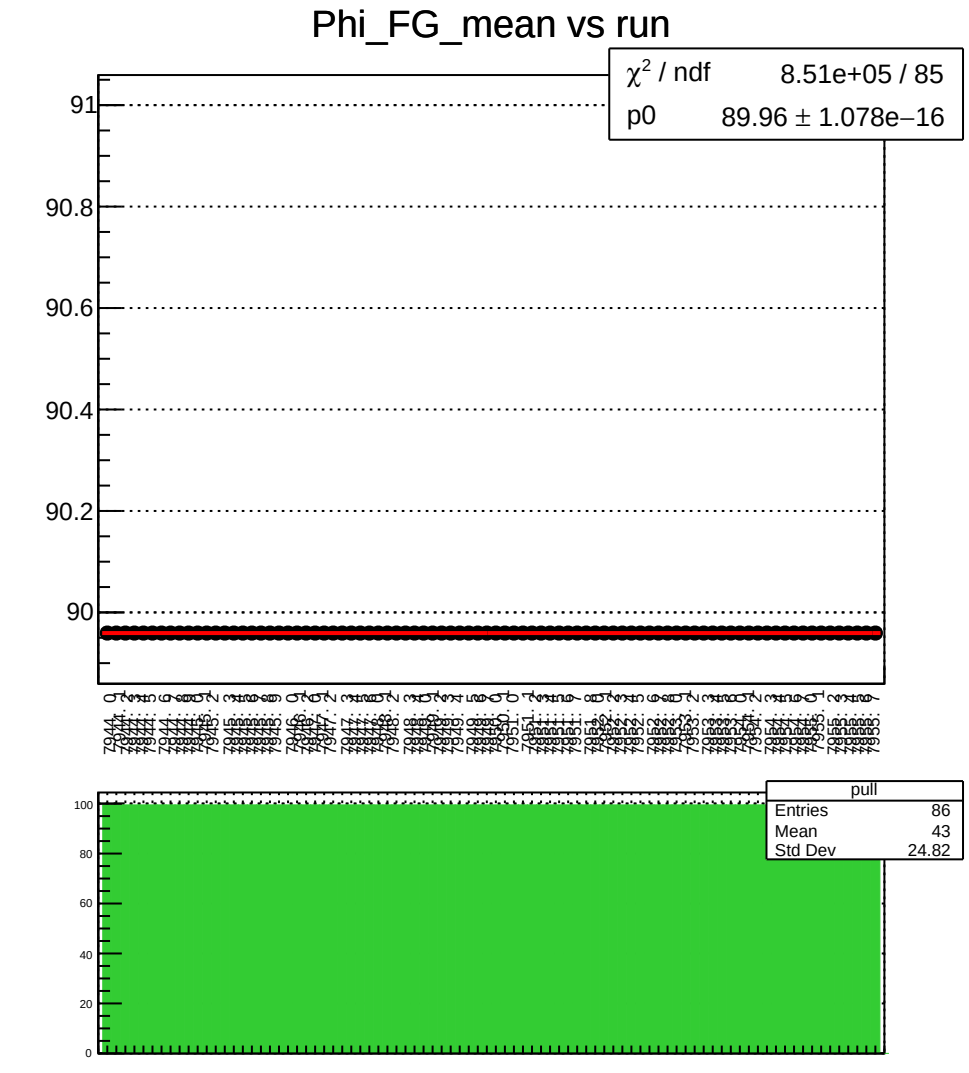

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

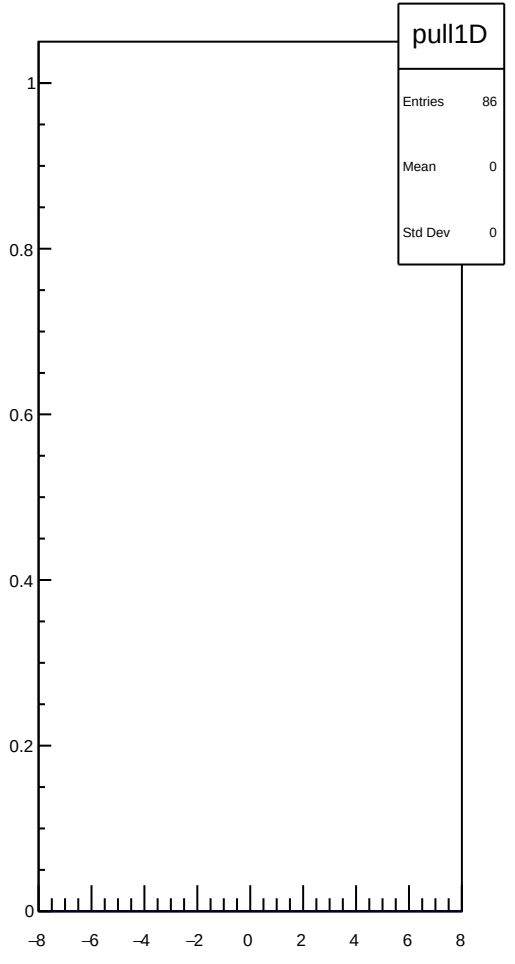

HWienAngle_mean vs run
χ² / ndf 4.342e+05 / 85
p0 −29.64 ± 1.078e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 86
Mean 43
Std Dev 24.82
0
−10
−20
−30
−40
−50
−60
−70

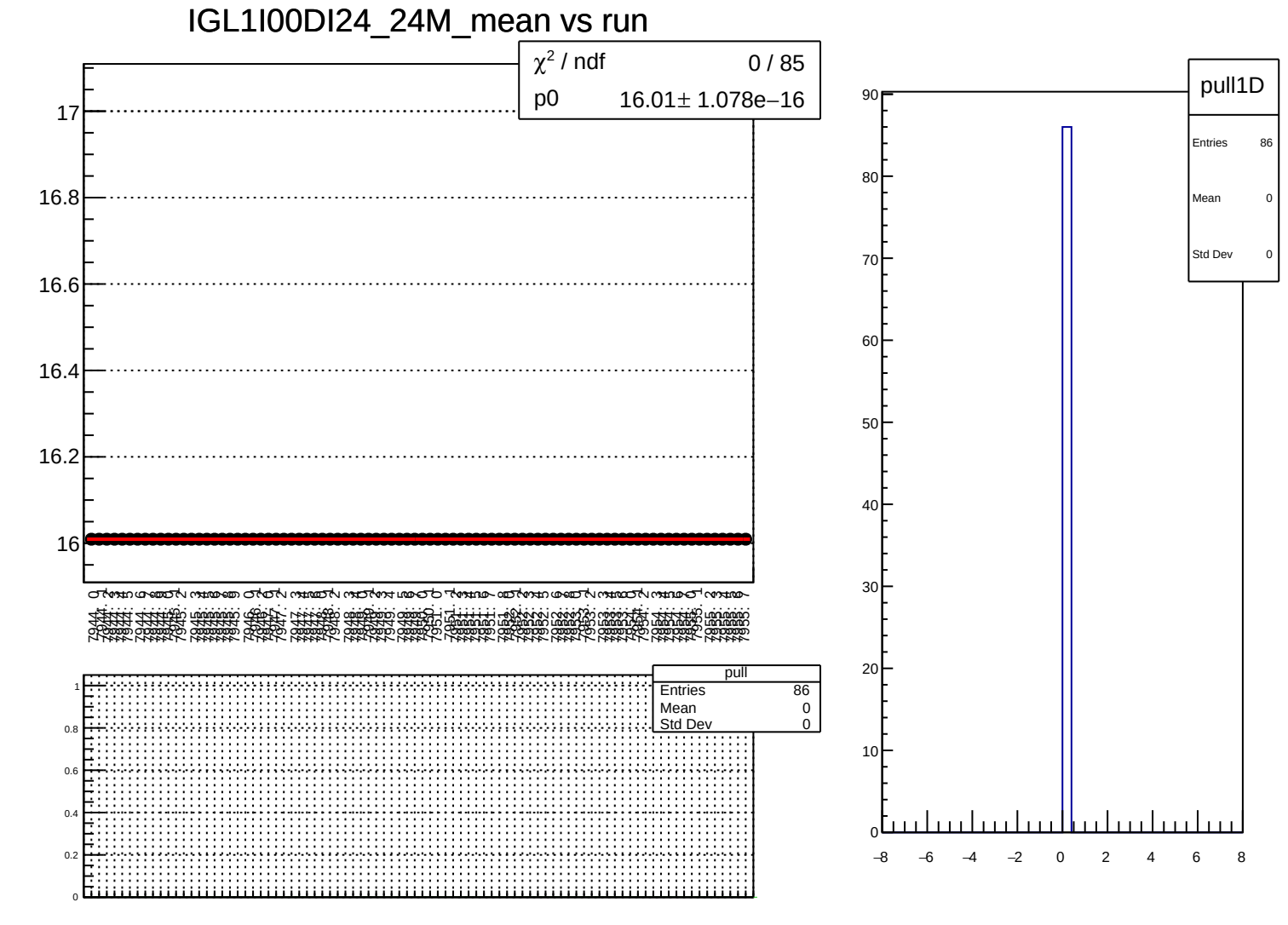

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

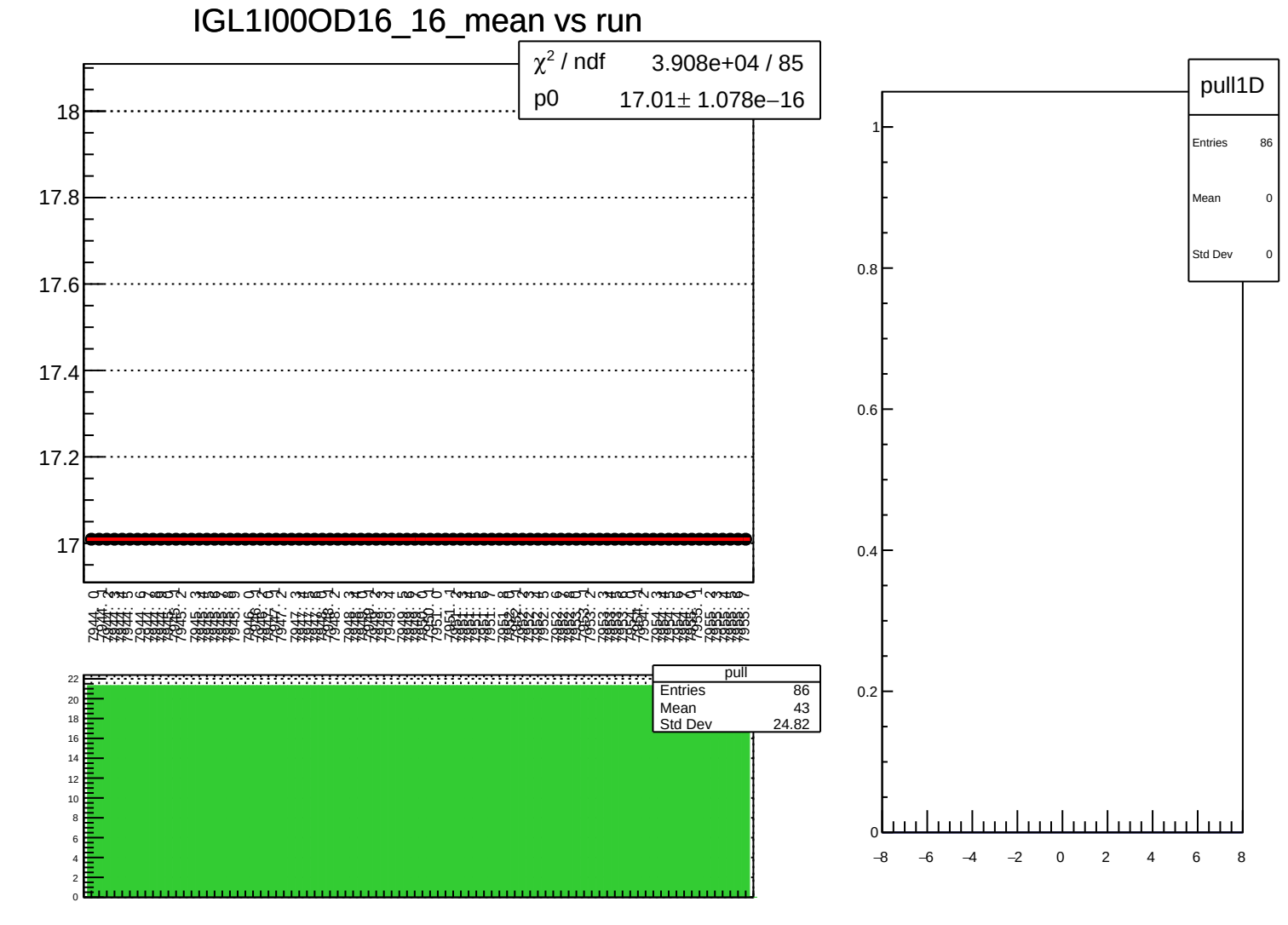

psub_pl_pos_mean vs run
χ² / ndf 1.285e+09 / 85
p0 1500 ± 1.078e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 86
Mean 43
Std Dev 24.82
4000
3500
3000
2500
2000
1500
1000
500
0

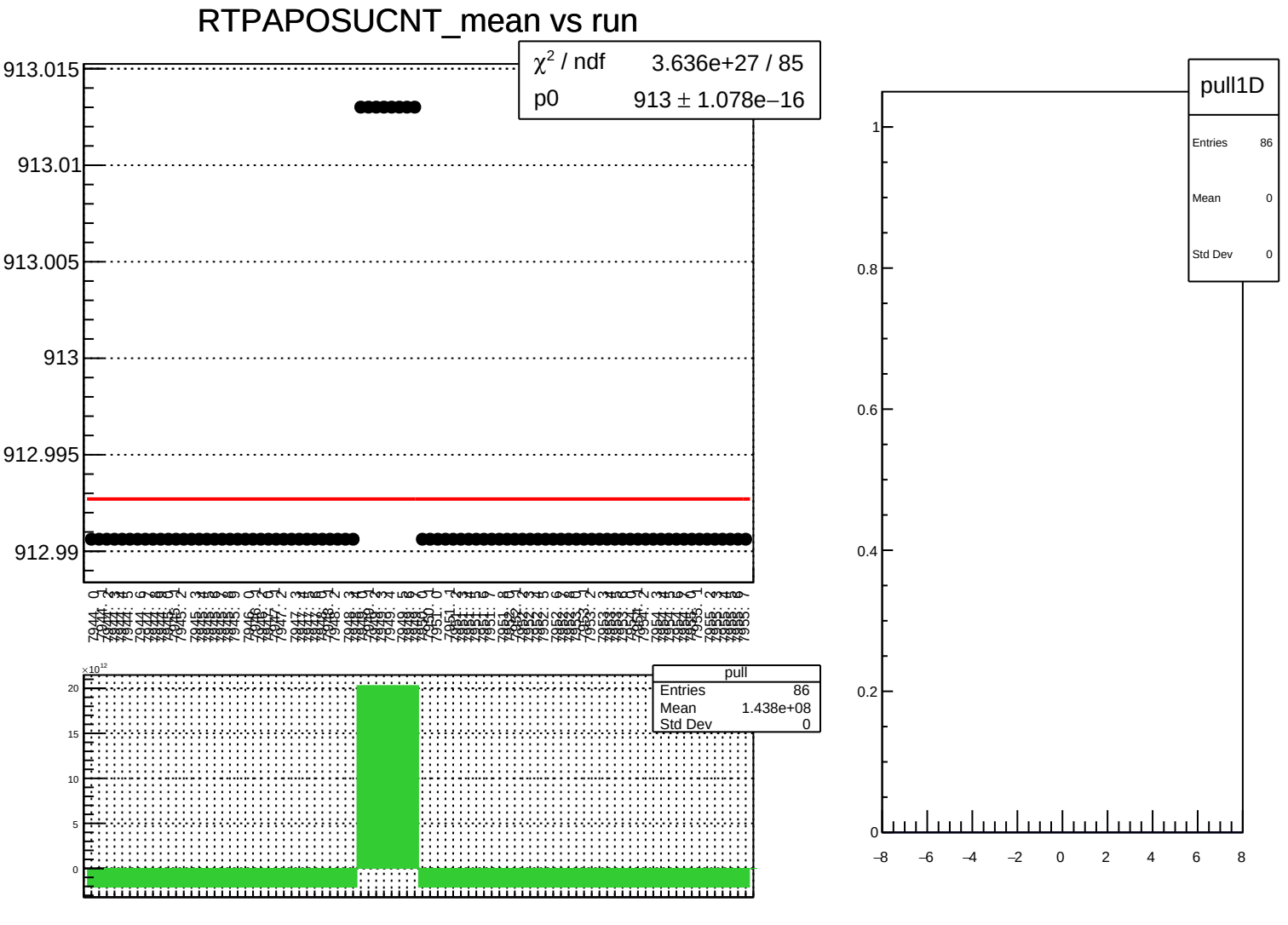

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

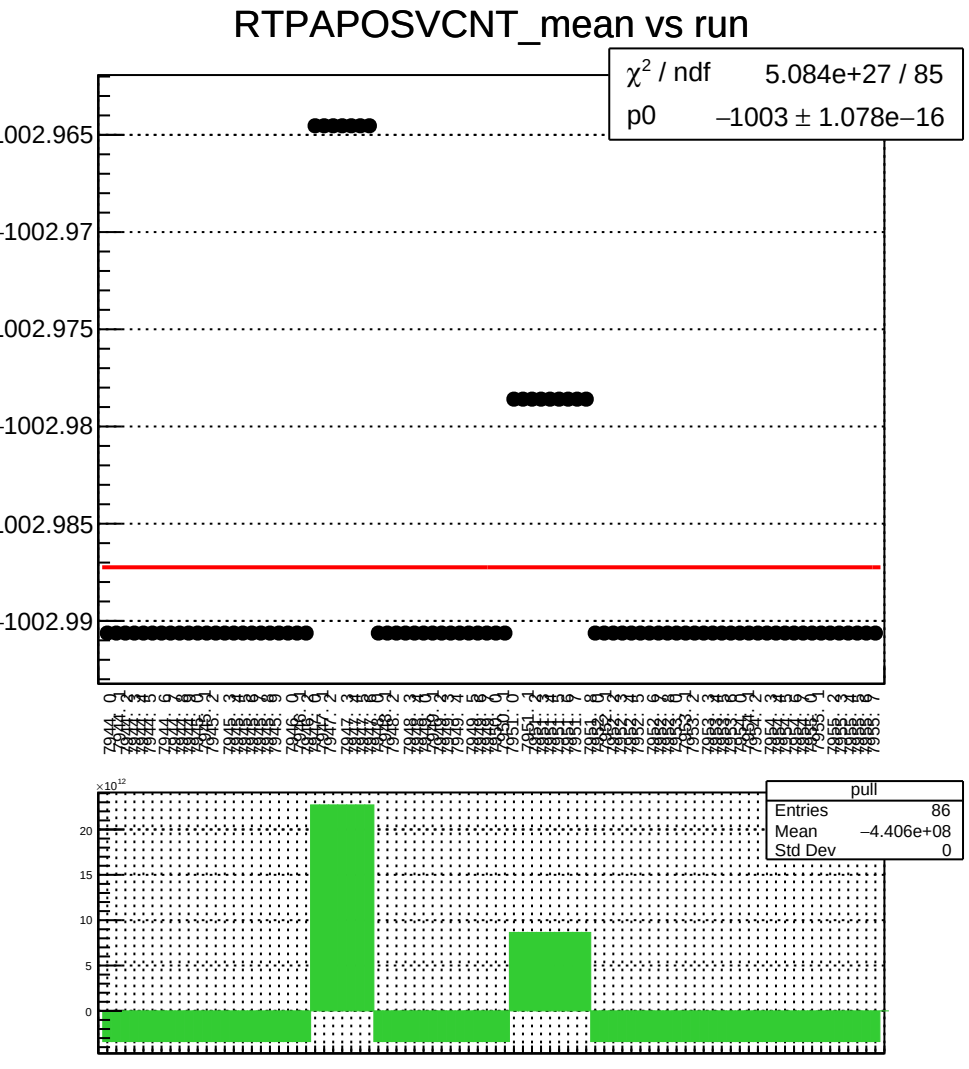

Phi_FG_mean vs run
χ² / ndf 8.51e+05 / 85
p0 89.96 ± 1.078e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 86
Mean 43
Std Dev 24.82
100
80
60
40
20
0

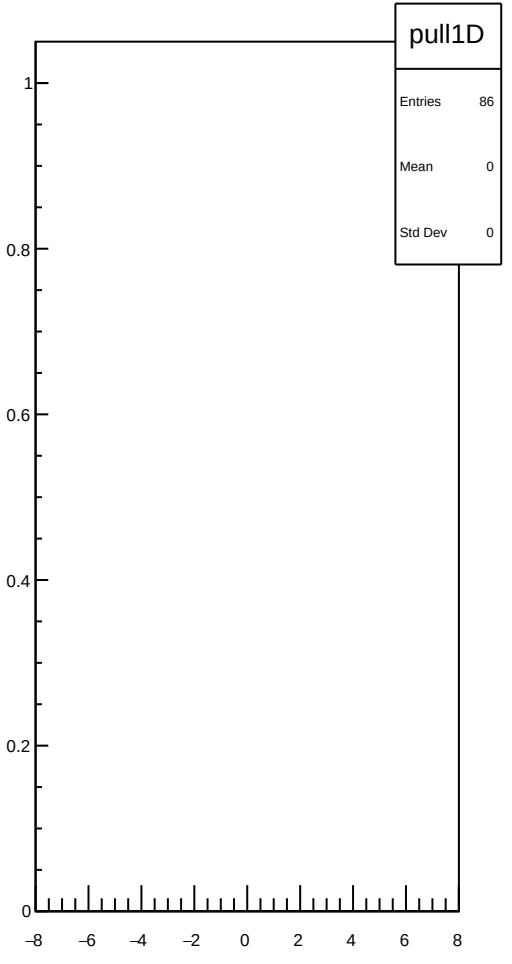

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

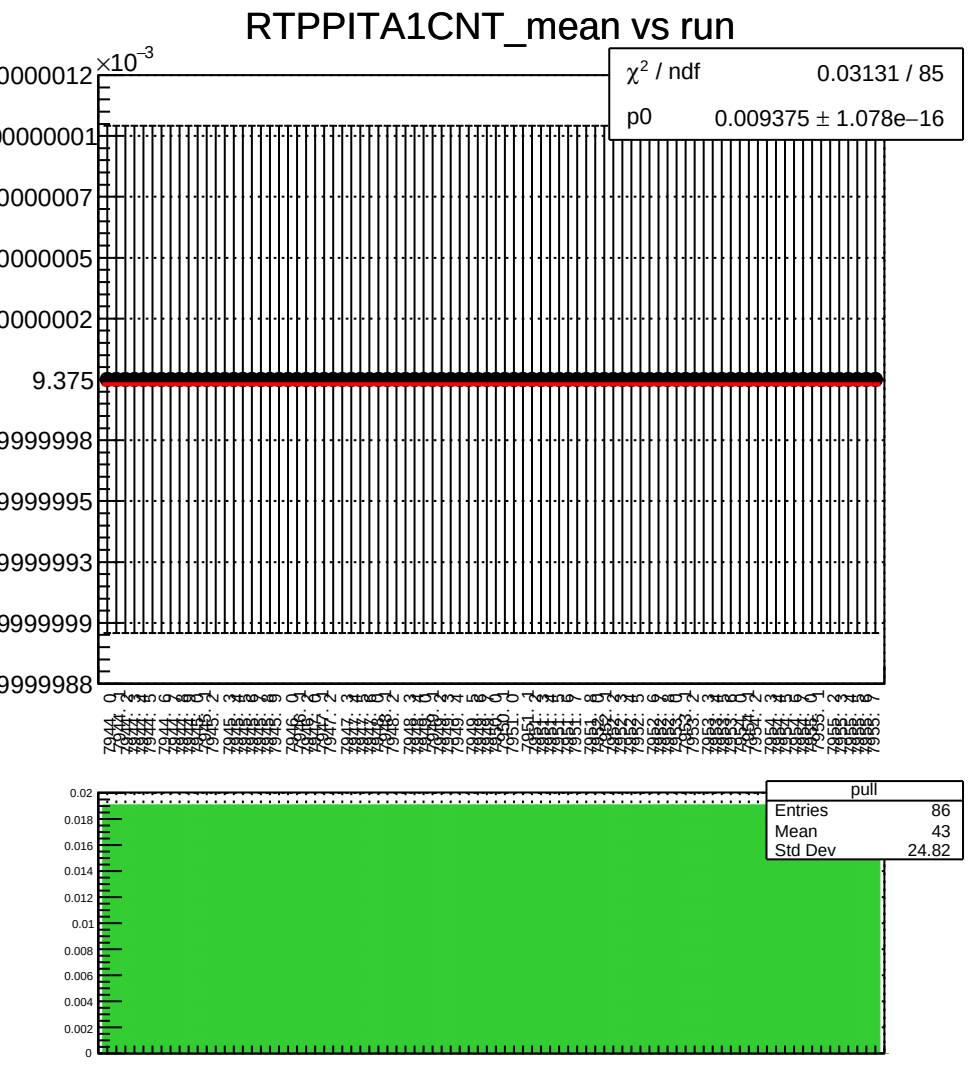

IGL1I00DI24_24M_mean vs run
χ² / ndf 0 / 85
p0 16.01± 1.078e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 86
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

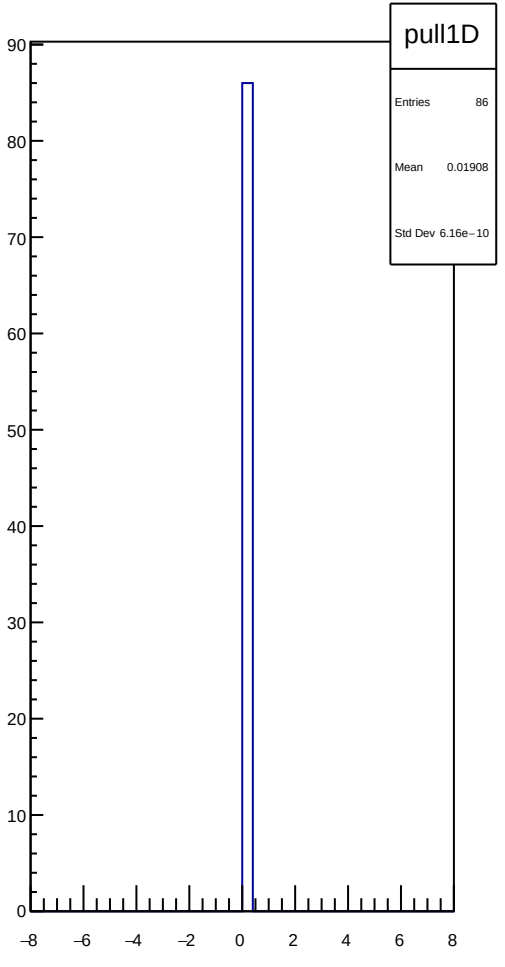

IGL1I00OD16_16_mean vs run
χ² / ndf 3.908e+04 / 85
p0 17.01± 1.078e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 86
Mean 43
Std Dev 24.82
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

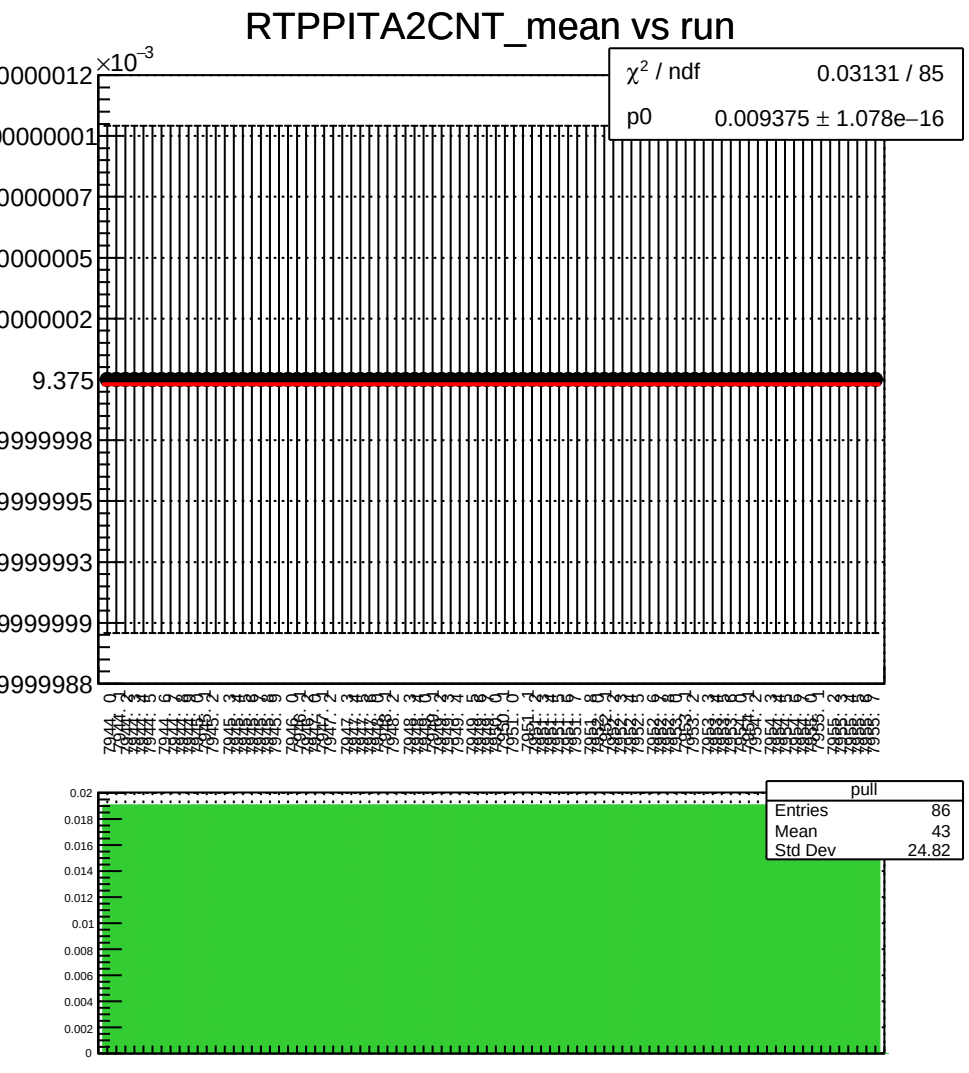

RTPAPOSUCNT_mean vs run
χ² / ndf 3.636e+27 / 85
p0 913 ± 1.078e−16
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 86
Mean 1.438e+08
Std Dev 0
×10¹²
20
15
10
5
0
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

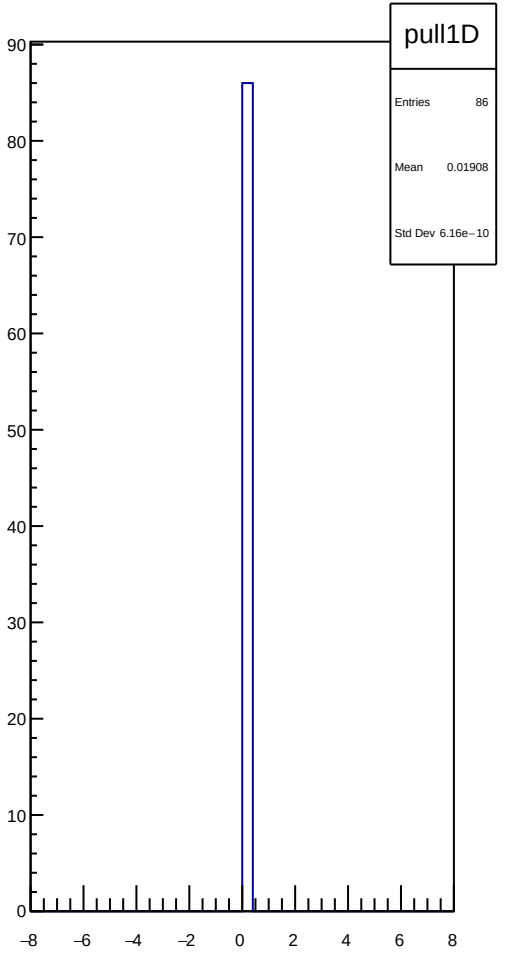

RTPAPOSVCNT_mean vs run
χ² / ndf 5.084e+27 / 85
p0 −1003 ± 1.078e−16
−1002.965
−1002.97
−1002.975
−1002.98
−1002.985
−1002.99
pull
Entries 86
Mean −4.406e+08
Std Dev 0
×10¹²
20
15
10
5
0


pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82


pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10


RTPPITA2CNT_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
9.375
pull
Entries 86
Mean 43
Std Dev 24.82


pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10