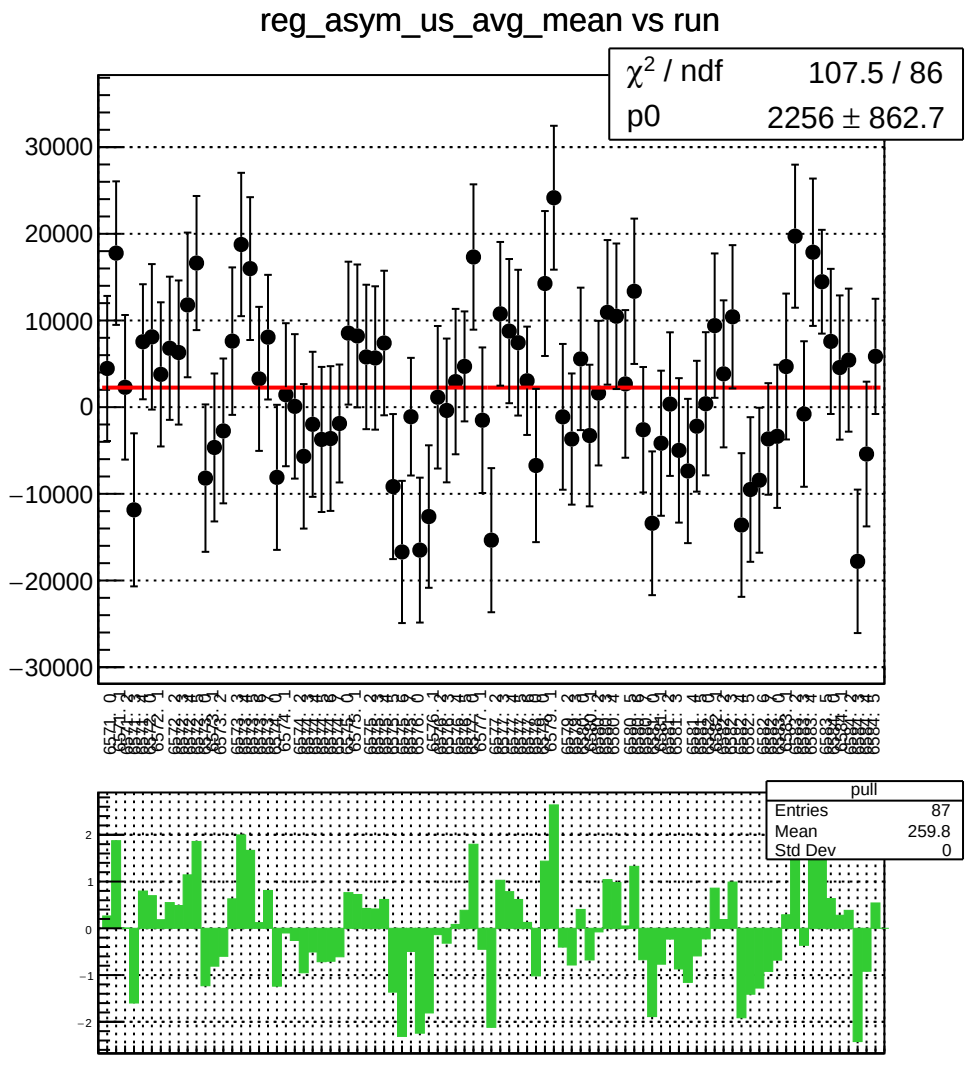
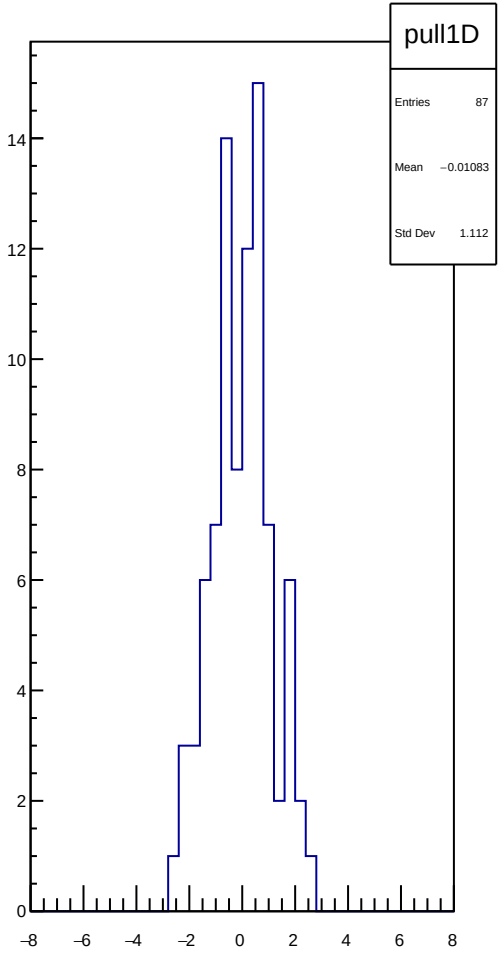
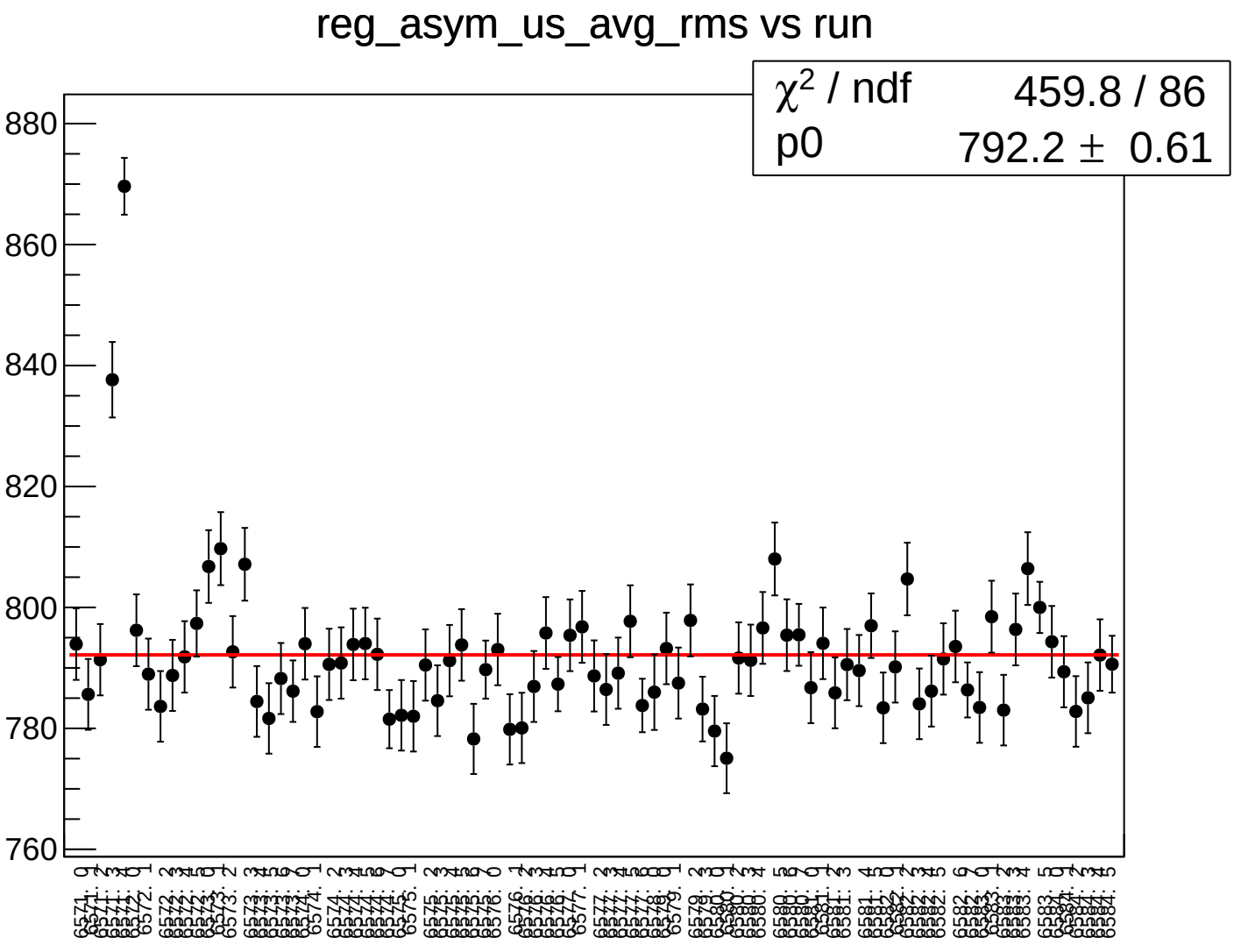
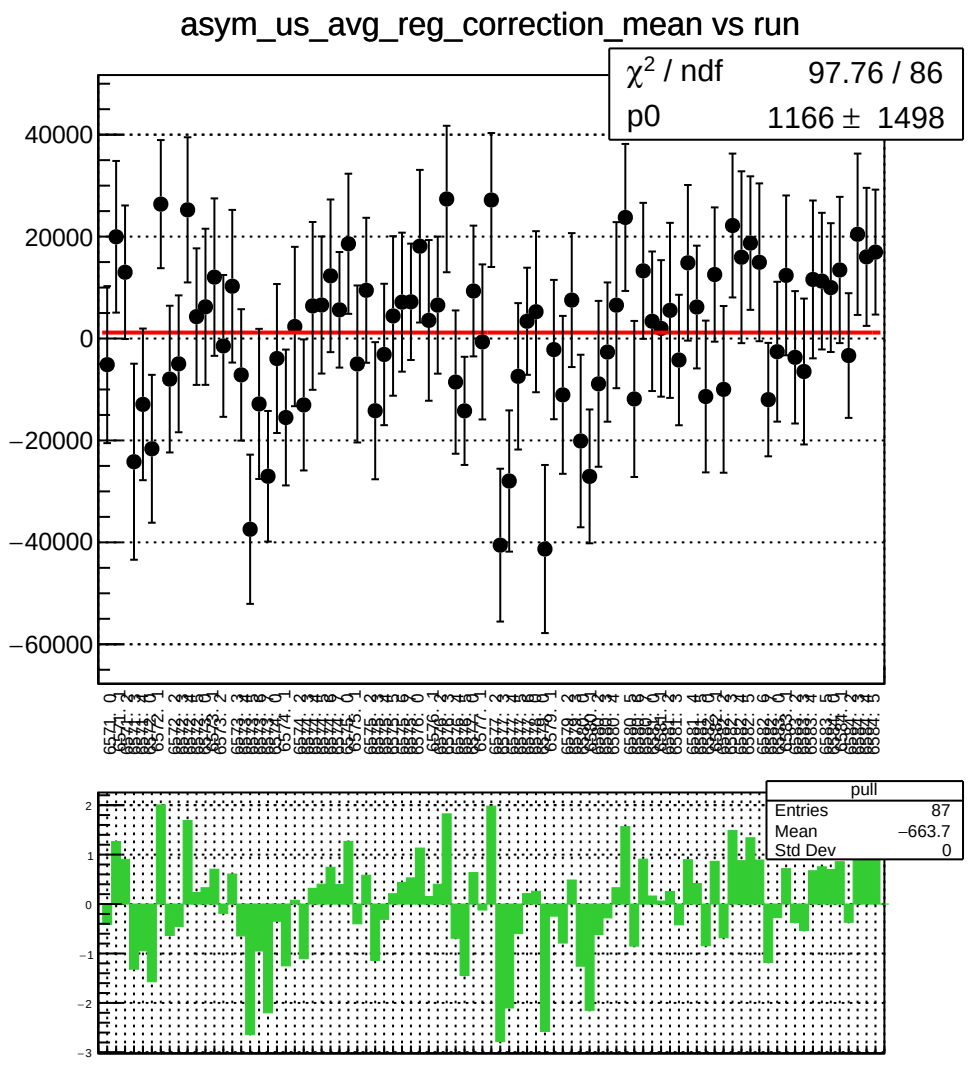
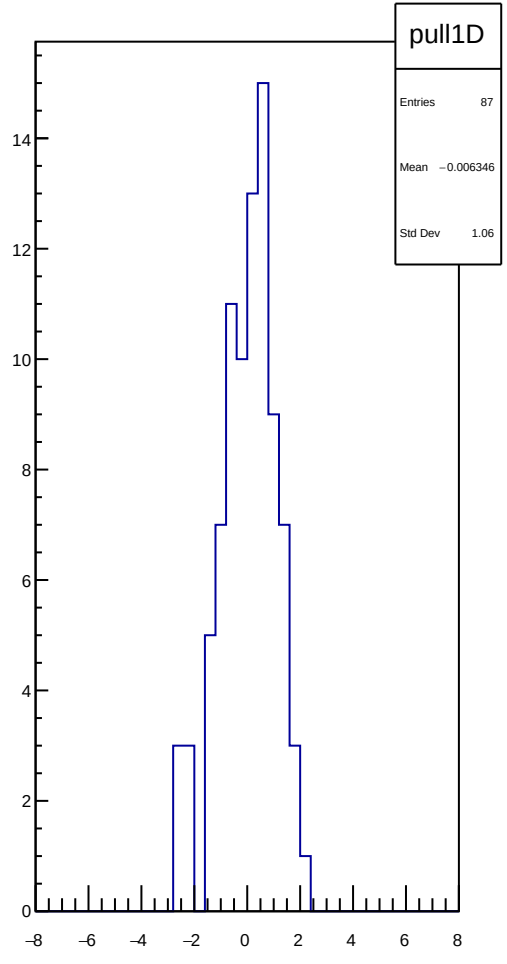
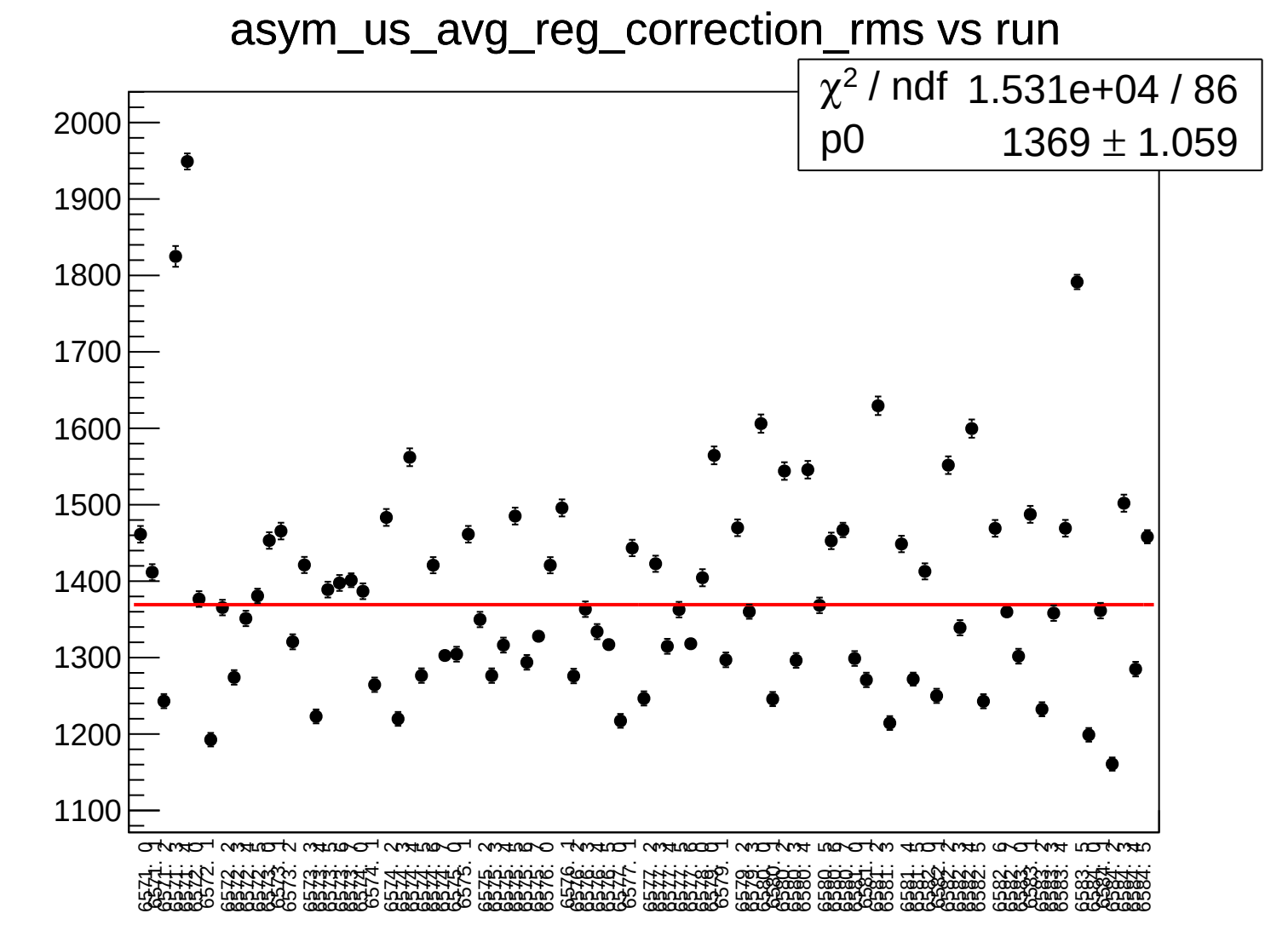

reg_asym_us_avg_mean vs run
χ² / ndf 107.5 / 86
p0 2256 ± 862.7
pull
Entries 87
Mean 259.8
Std Dev 0

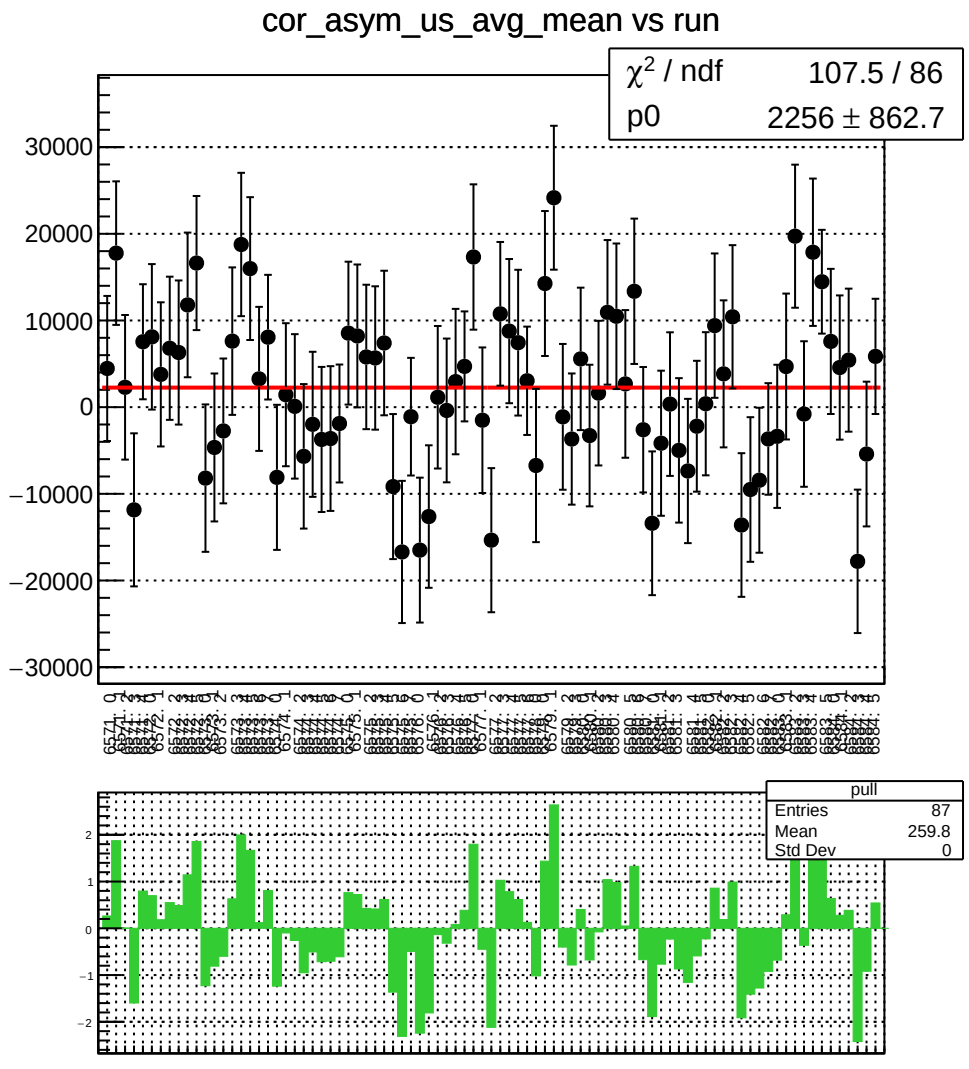

pull1D
Entries 87
Mean −0.01083
Std Dev 1.112

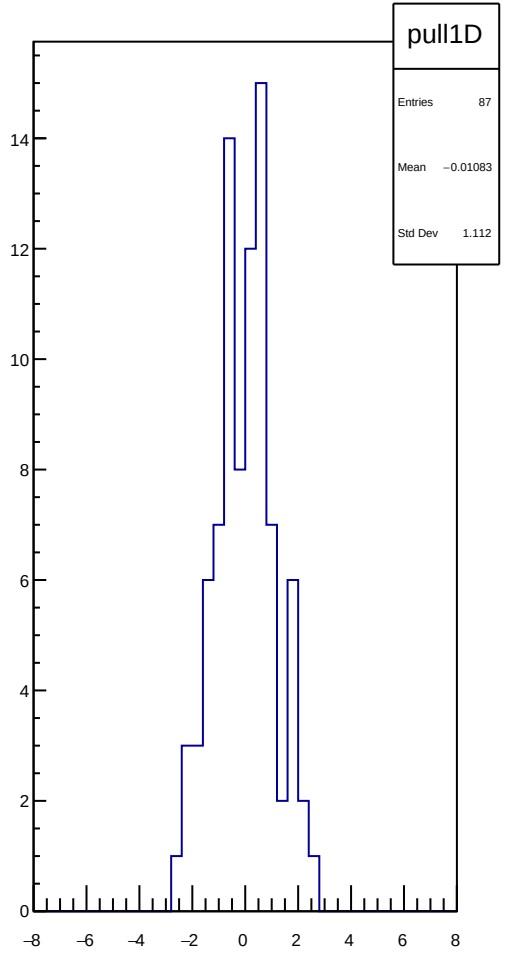

reg_asym_us_avg_rms vs run
χ² / ndf 459.8 / 86
p0 792.2 ± 0.61
880
860
840
820
800
780
760

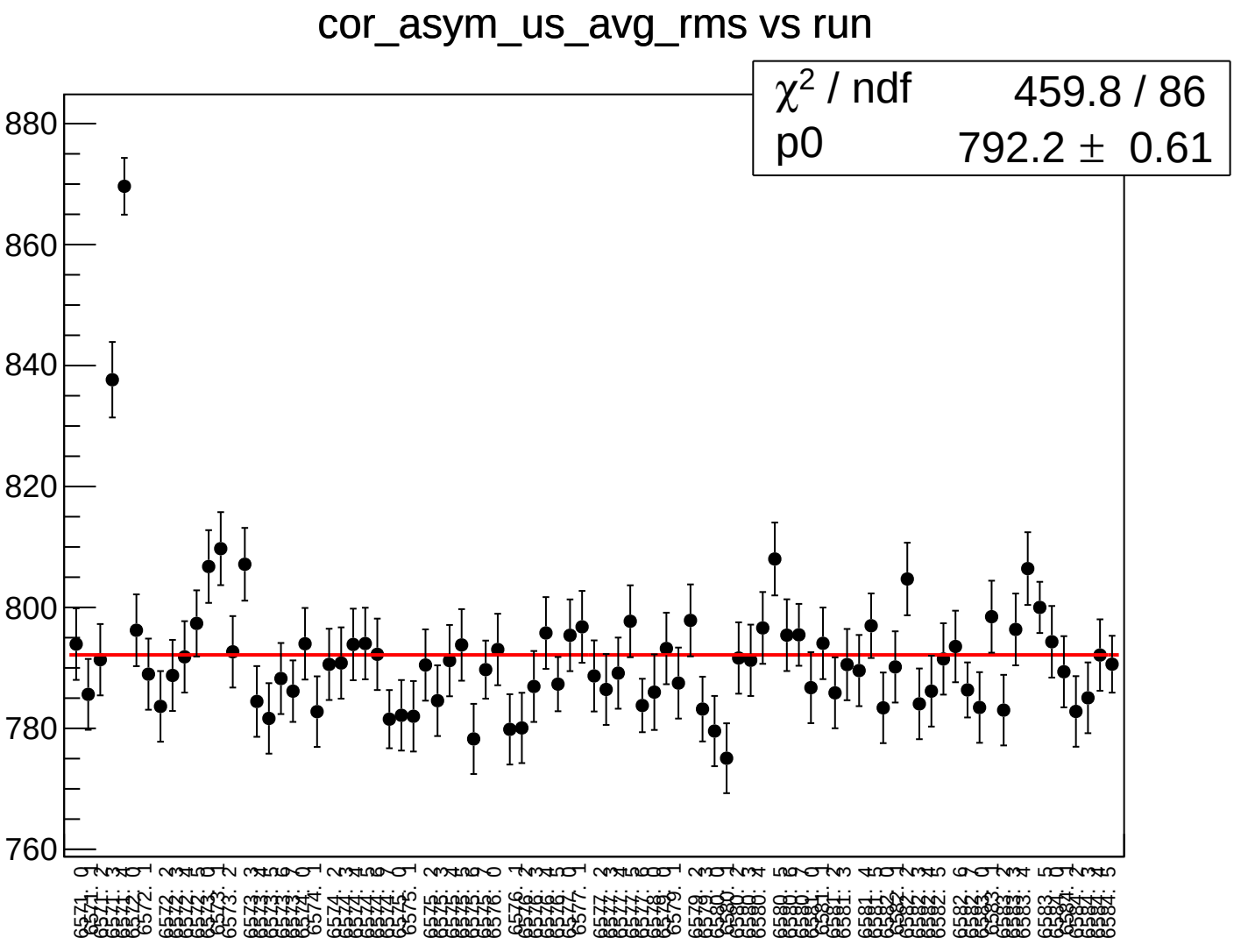

asym_us_avg_reg_correction_mean vs run
χ² / ndf 97.76 / 86
p0 1166 ± 1498
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −663.7
Std Dev 0
2
1
0
−1
−2
−3

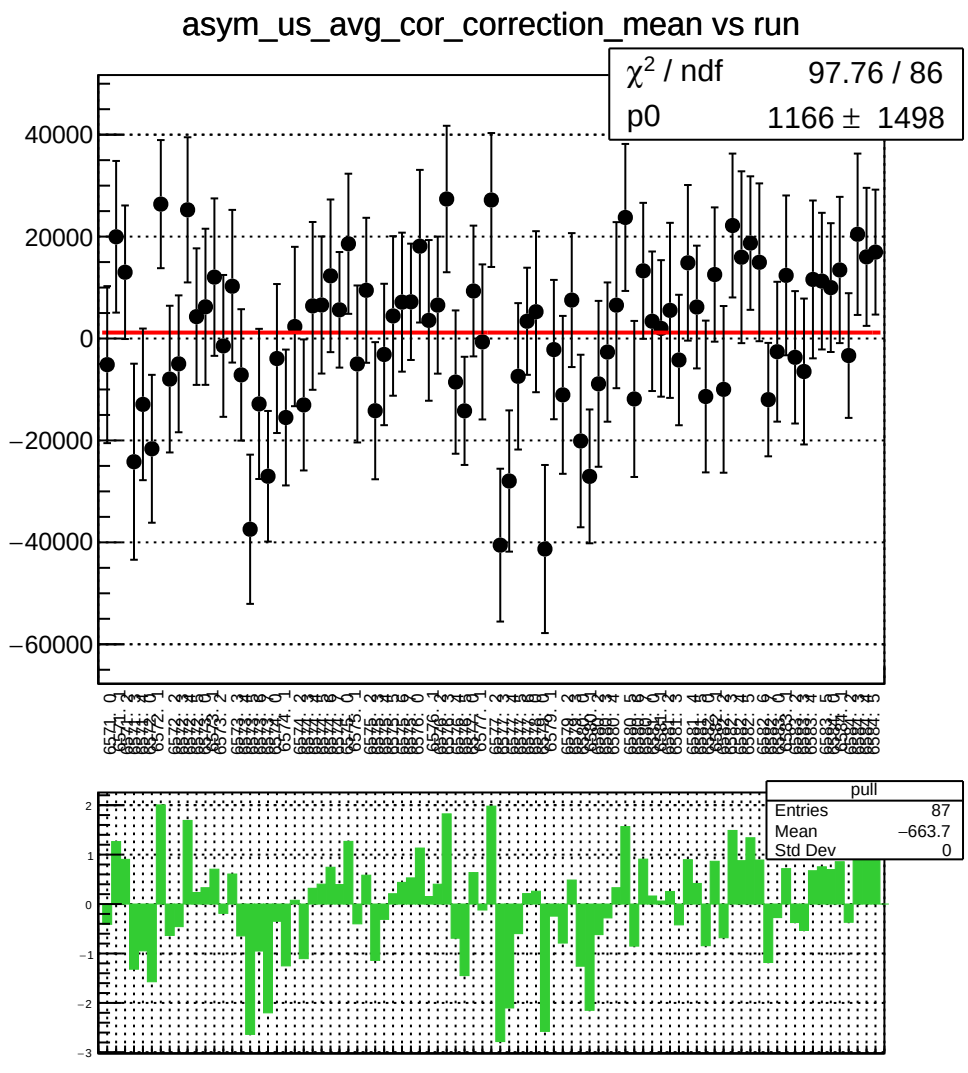

pull1D
Entries 87
Mean −0.006346
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

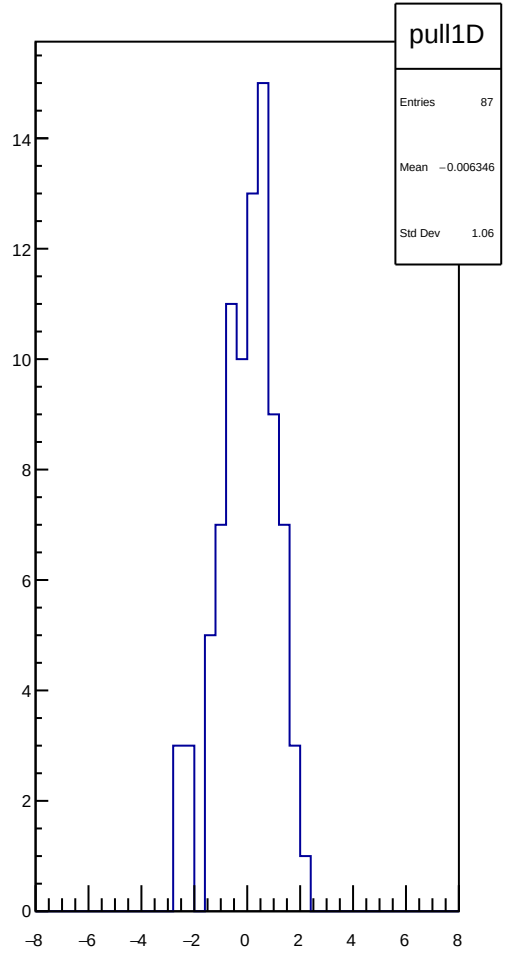

asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.531e+04 / 86
p0 1369 ± 1.059
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

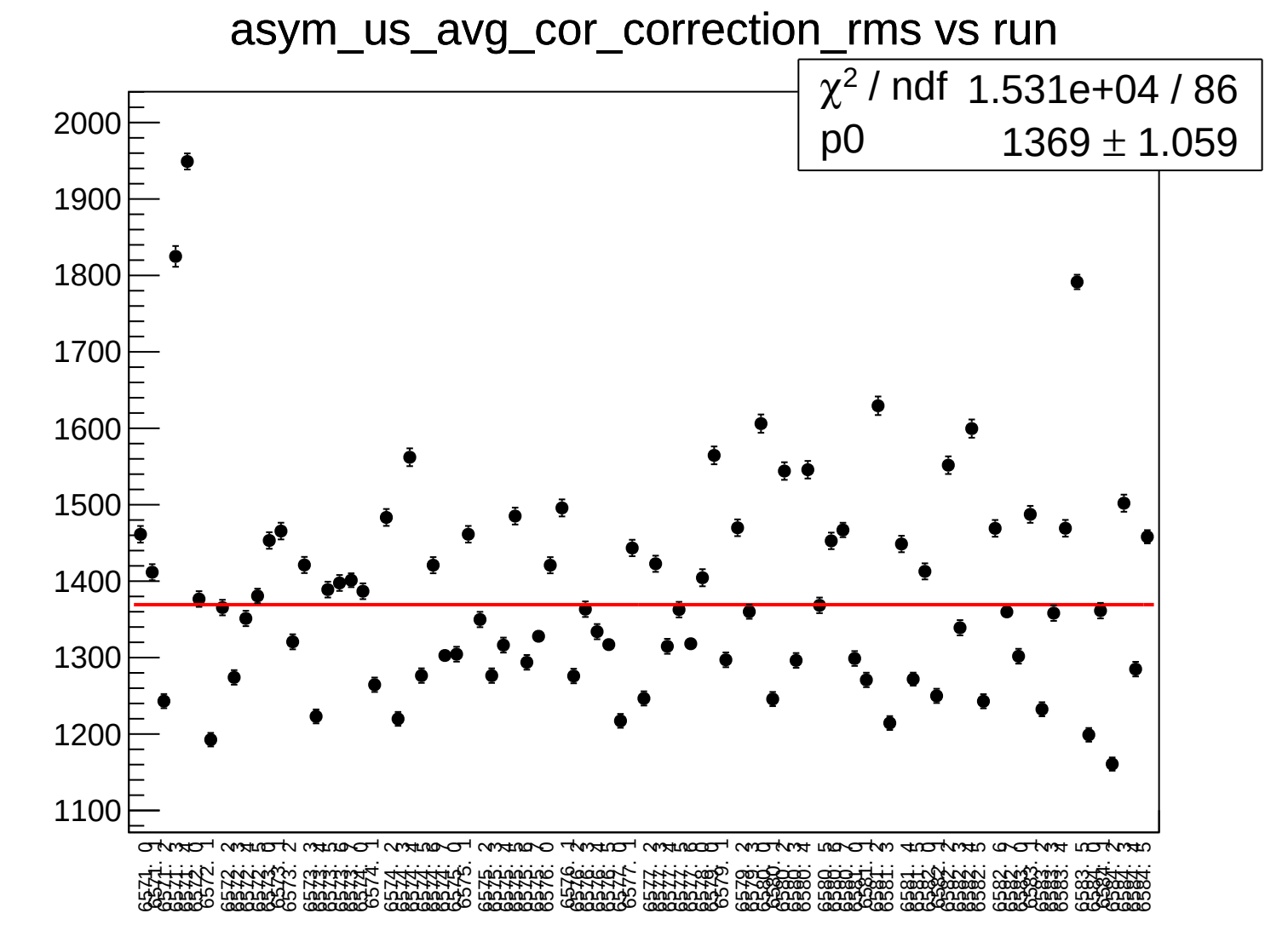

cor_asym_us_avg_mean vs run
χ² / ndf 107.5 / 86
p0 2256 ± 862.7
pull
Entries 87
Mean 259.8
Std Dev 0

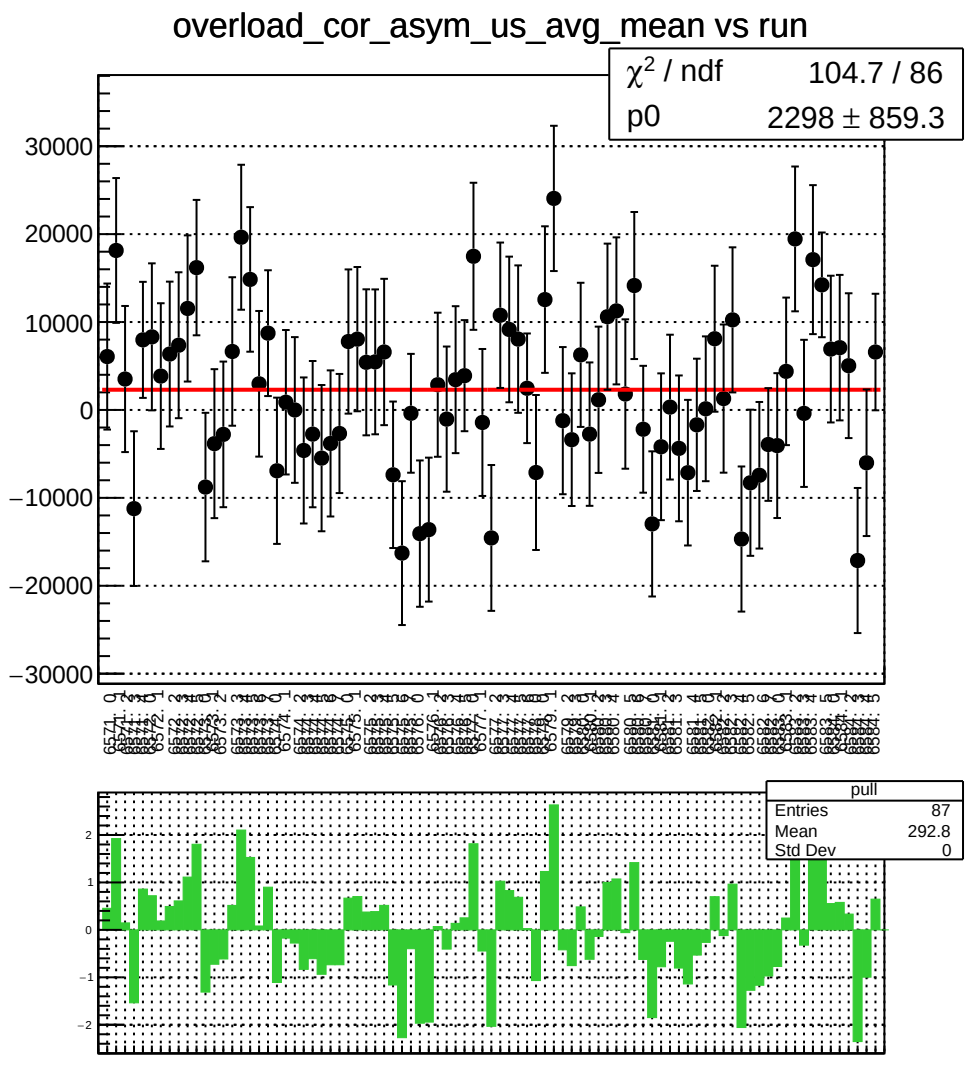

pull1D
Entries 87
Mean −0.01083
Std Dev 1.112

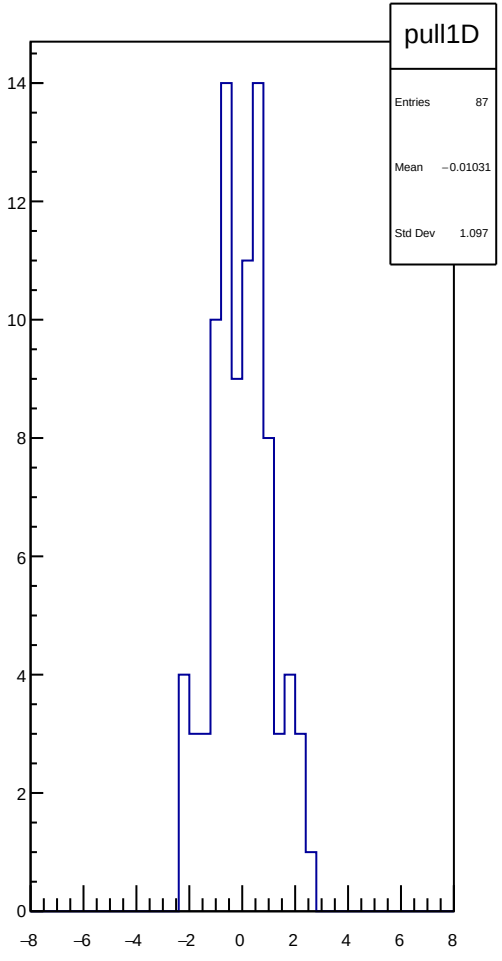

cor_asym_us_avg_rms vs run
χ^2 / ndf 459.8 / 86
p0 792.2 ± 0.61
880
860
840
820
800
780
760

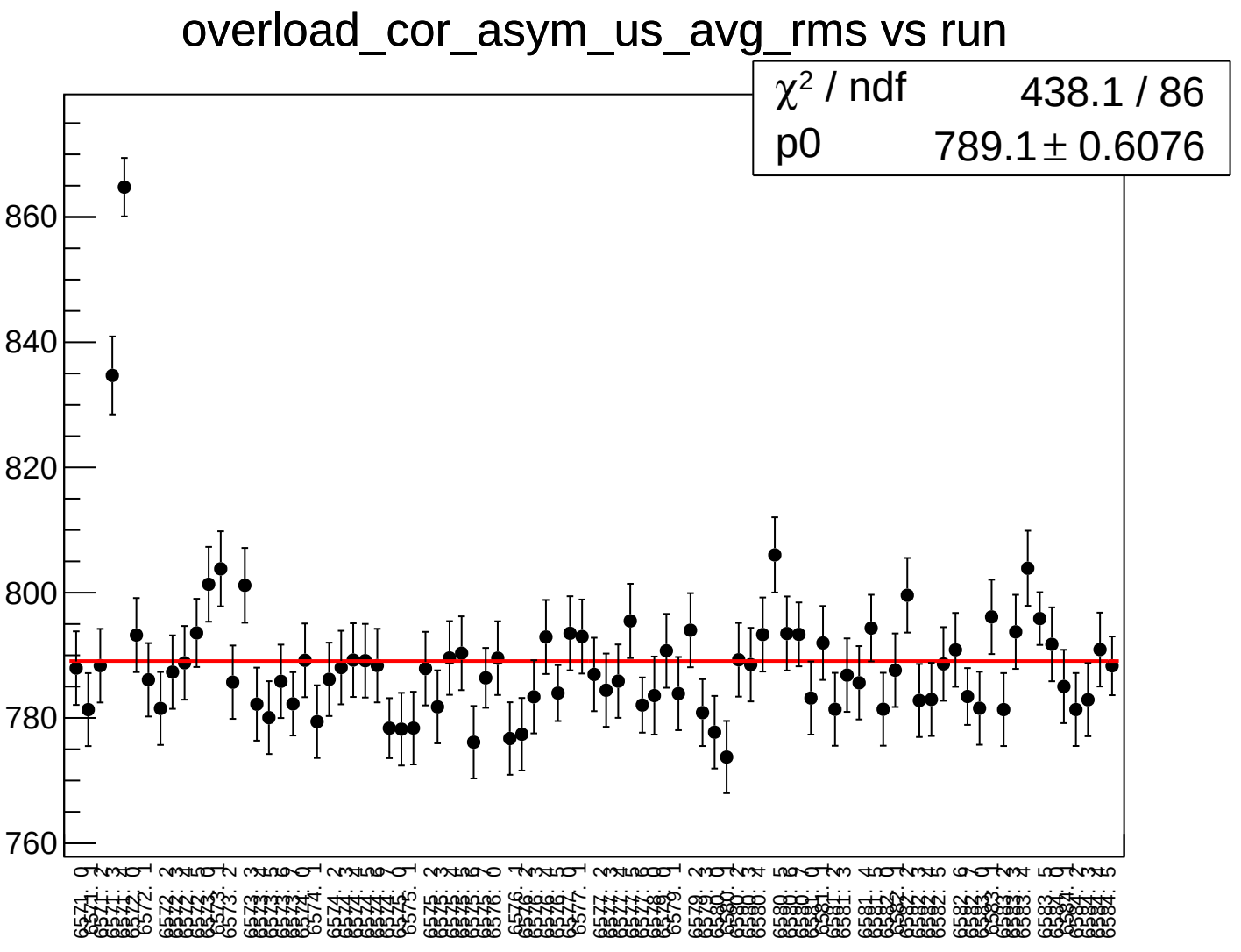

asym_us_avg_cor_correction_mean vs run
χ² / ndf 97.76 / 86
p0 1166 ± 1498
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −663.7
Std Dev 0
2
1
0
−1
−2
−3

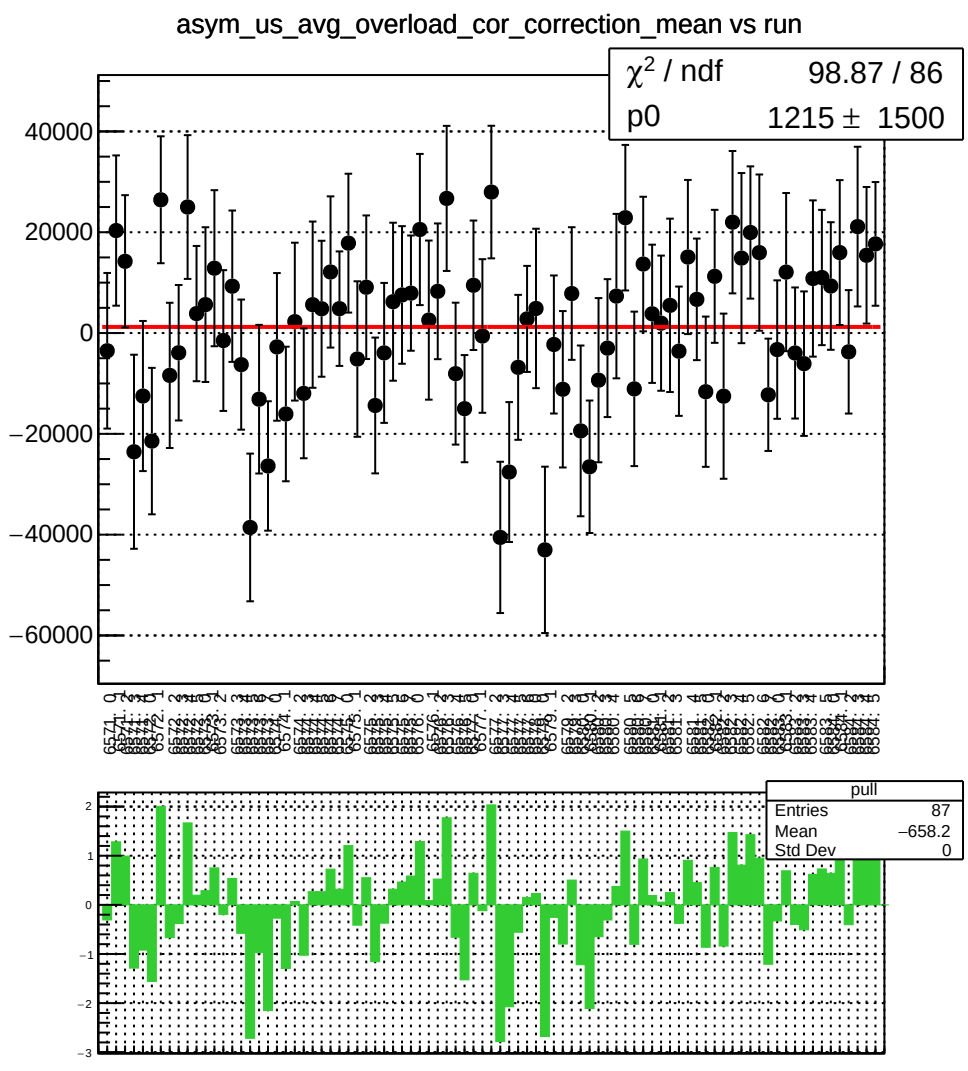

pull1D
Entries 87
Mean −0.006346
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

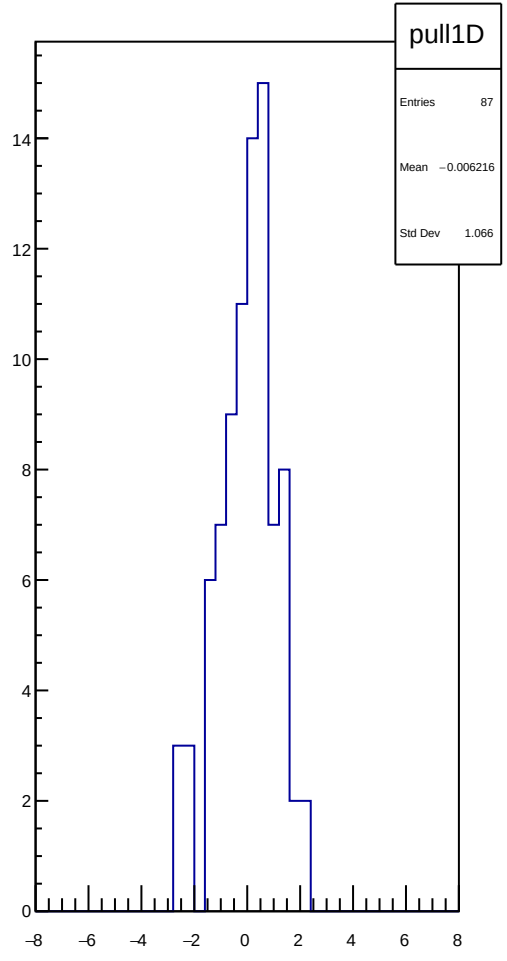

asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.531e+04 / 86
p0 1369 ± 1.059
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

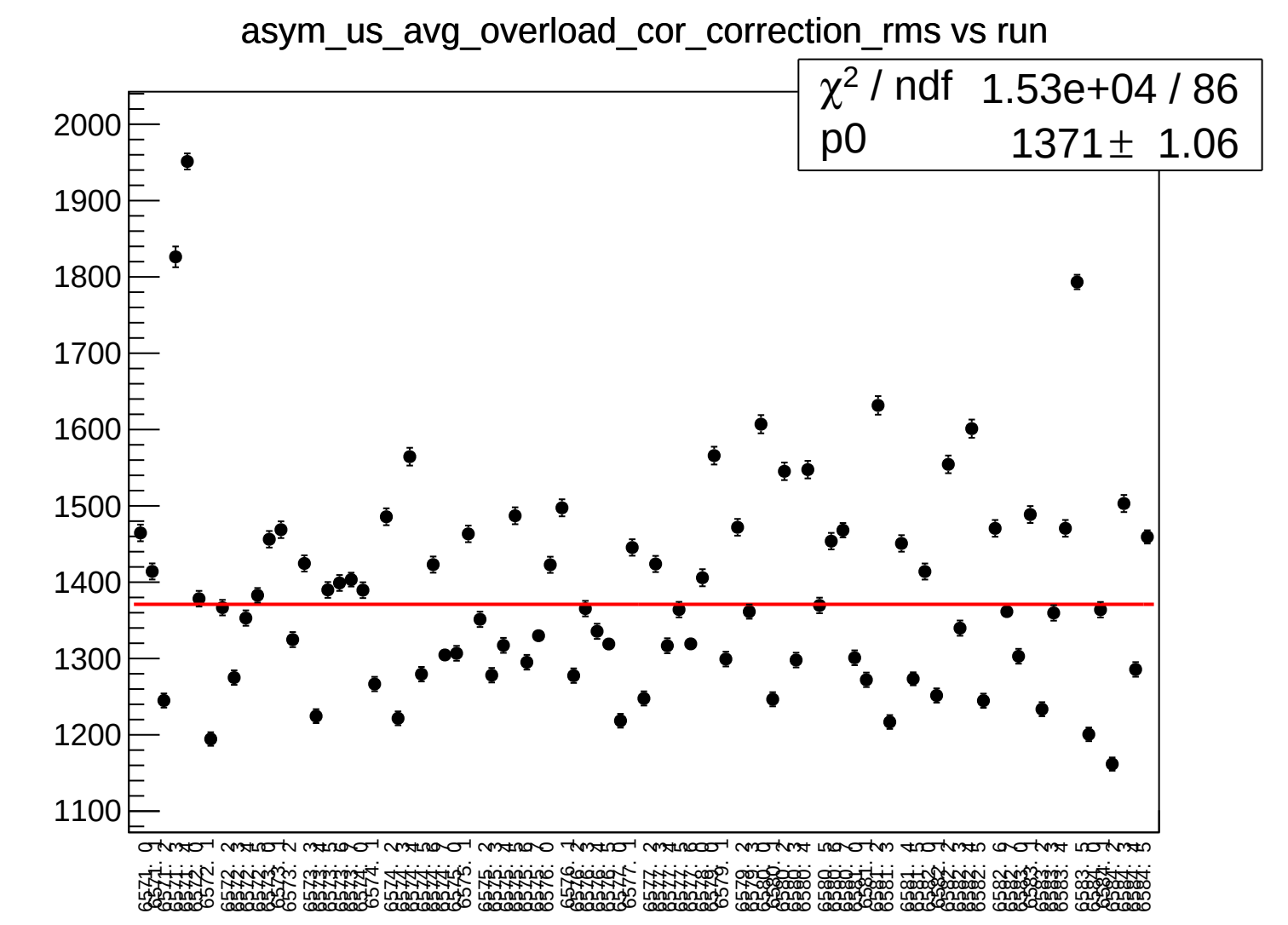

overload_cor_asym_us_avg_mean vs run
χ² / ndf 104.7 / 86
p0 2298 ± 859.3
pull
Entries 87
Mean 292.8
Std Dev 0

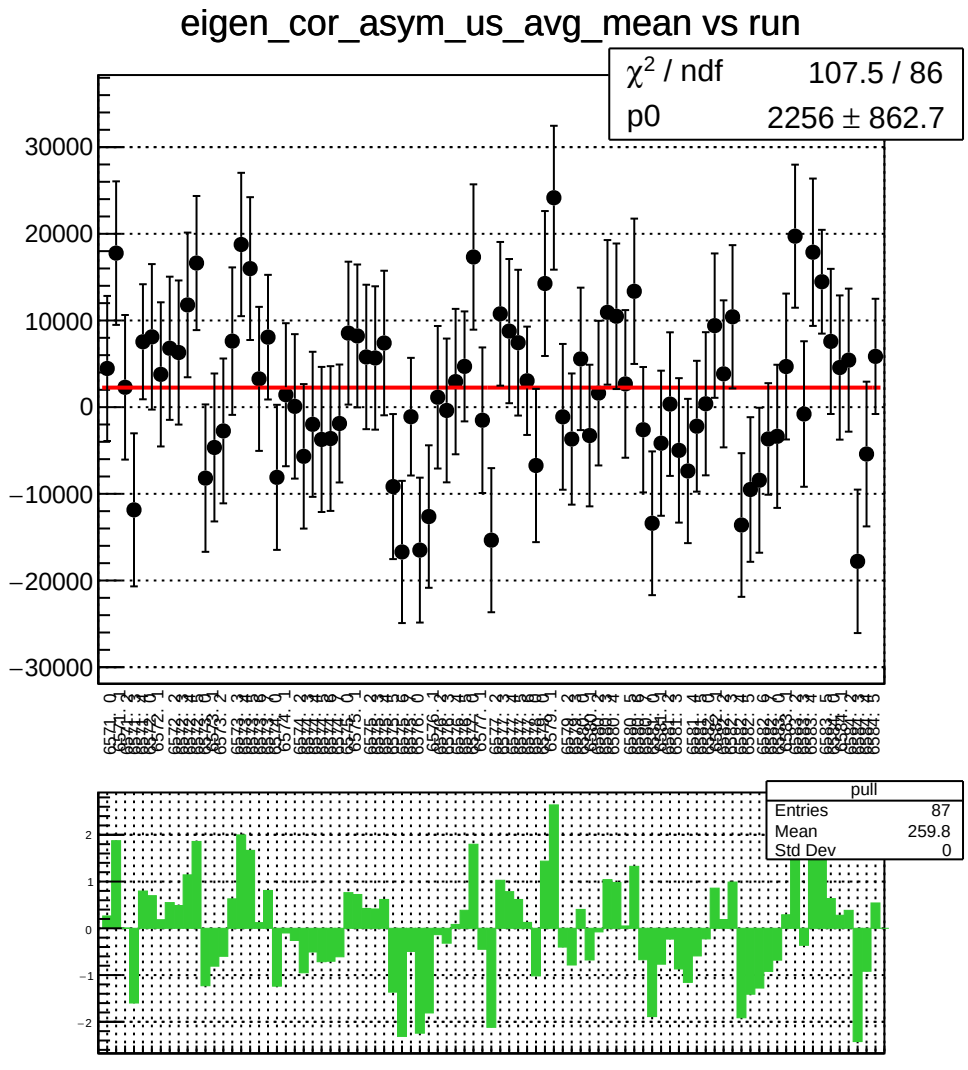

pull1D
Entries 87
Mean −0.01031
Std Dev 1.097

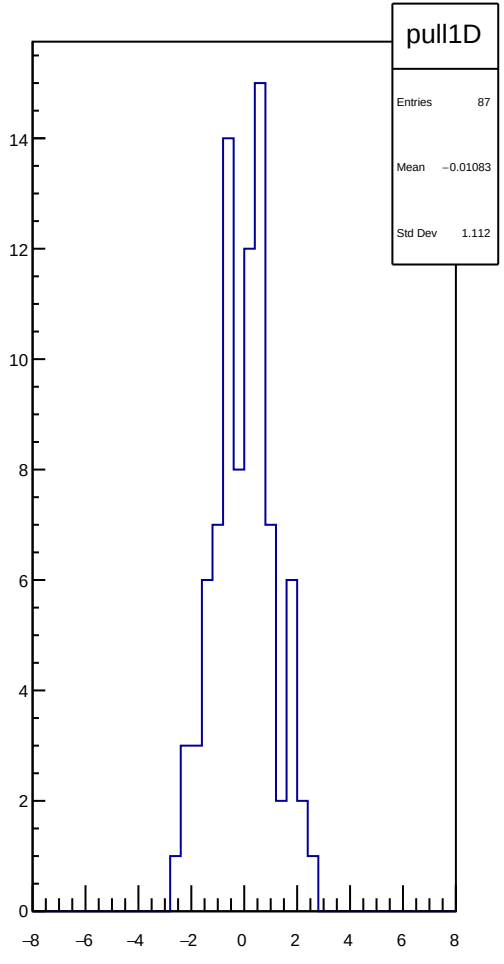

overload_cor_asym_us_avg_rms vs run
χ² / ndf 438.1 / 86
p0 789.1 ± 0.6076
860
840
820
800
780
760

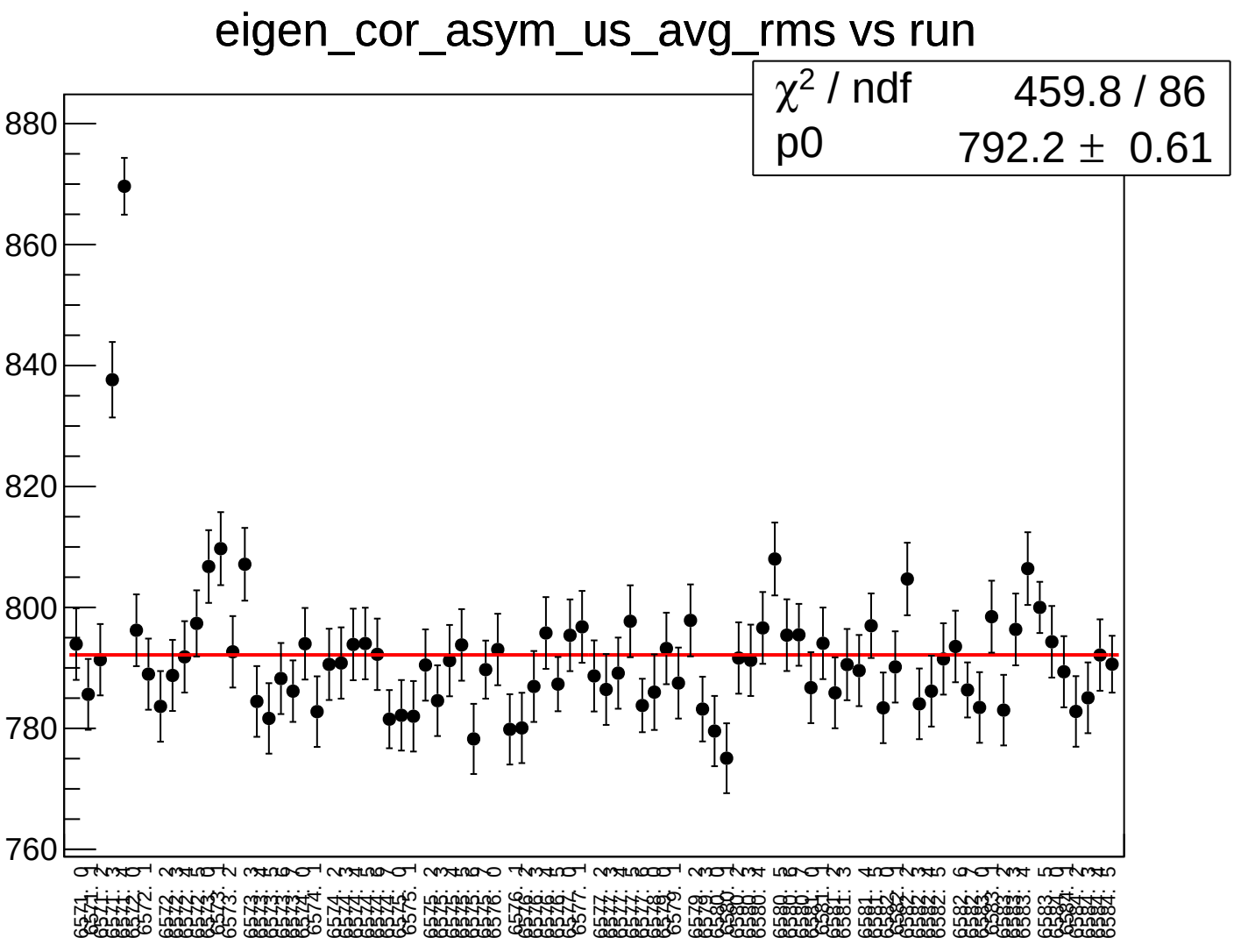

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 98.87 / 86
p0 1215 ± 1500
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −658.2
Std Dev 0
2
1
0
−1
−2
−3

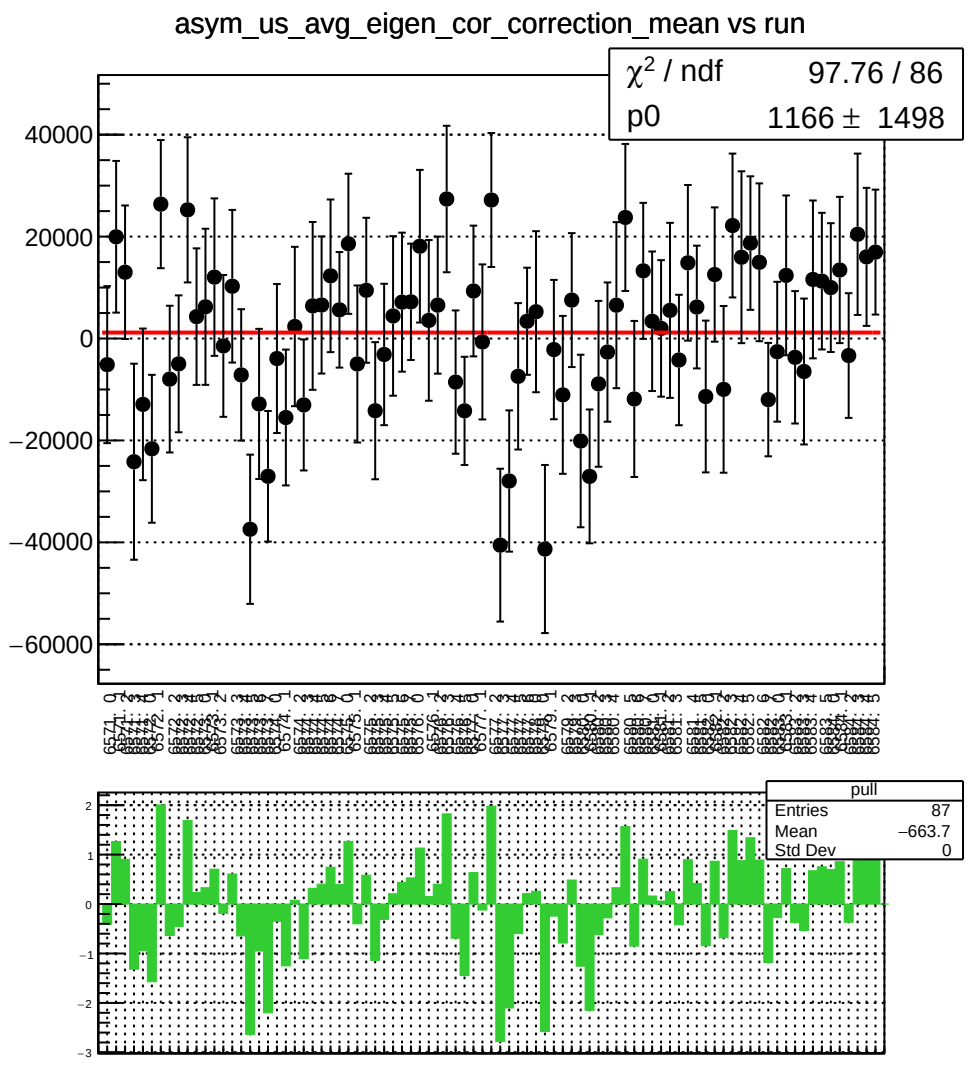

pull1D
Entries 87
Mean −0.006216
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

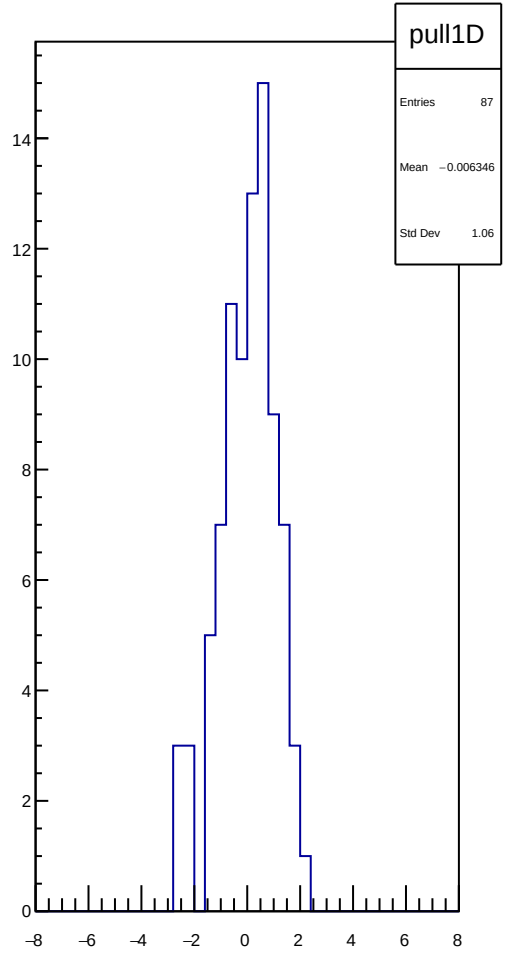

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.53e+04 / 86
p0 1371 ± 1.06
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

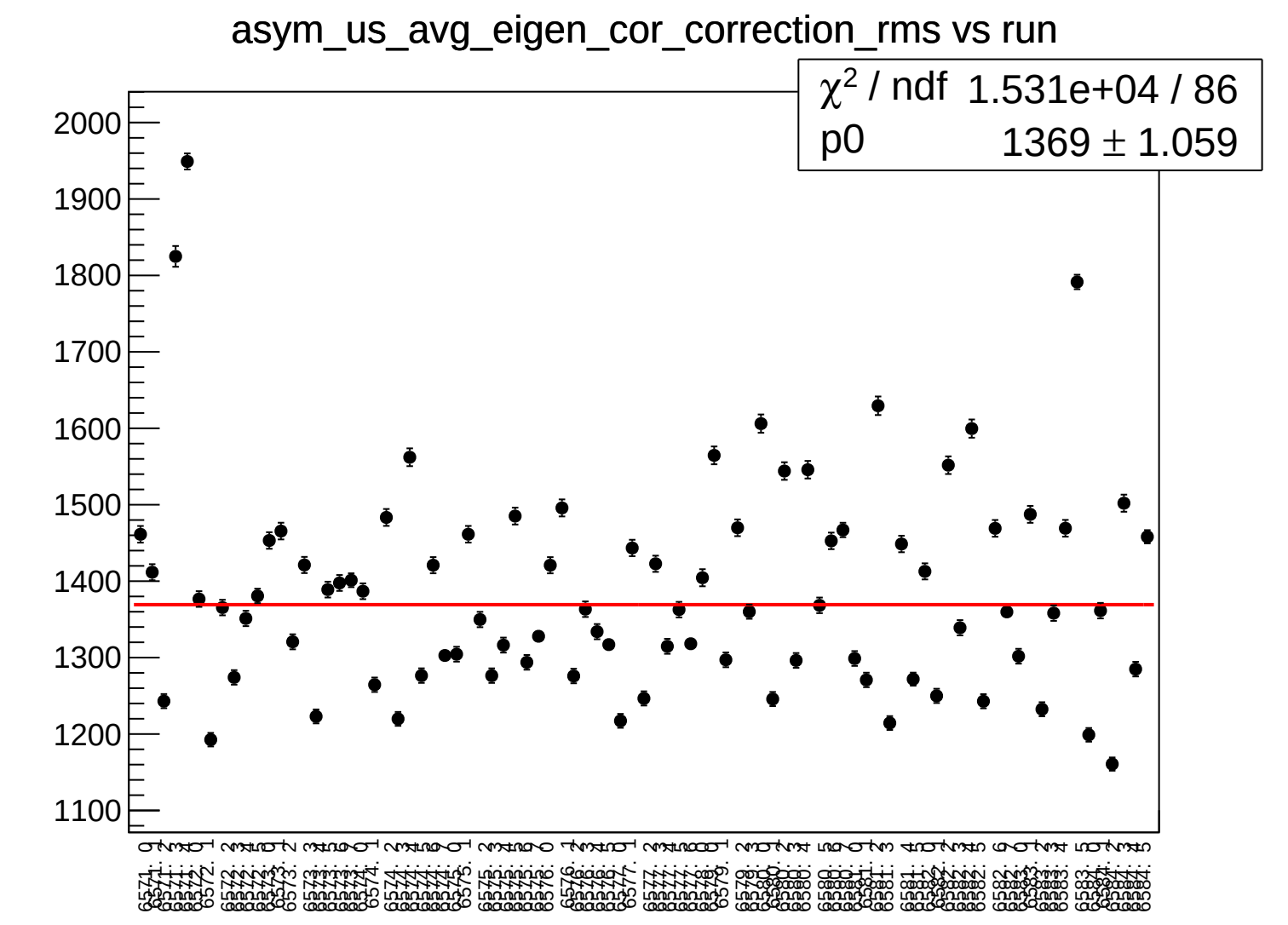

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 107.5 / 86
p0 2256 ± 862.7
pull
Entries 87
Mean 259.8
Std Dev 0

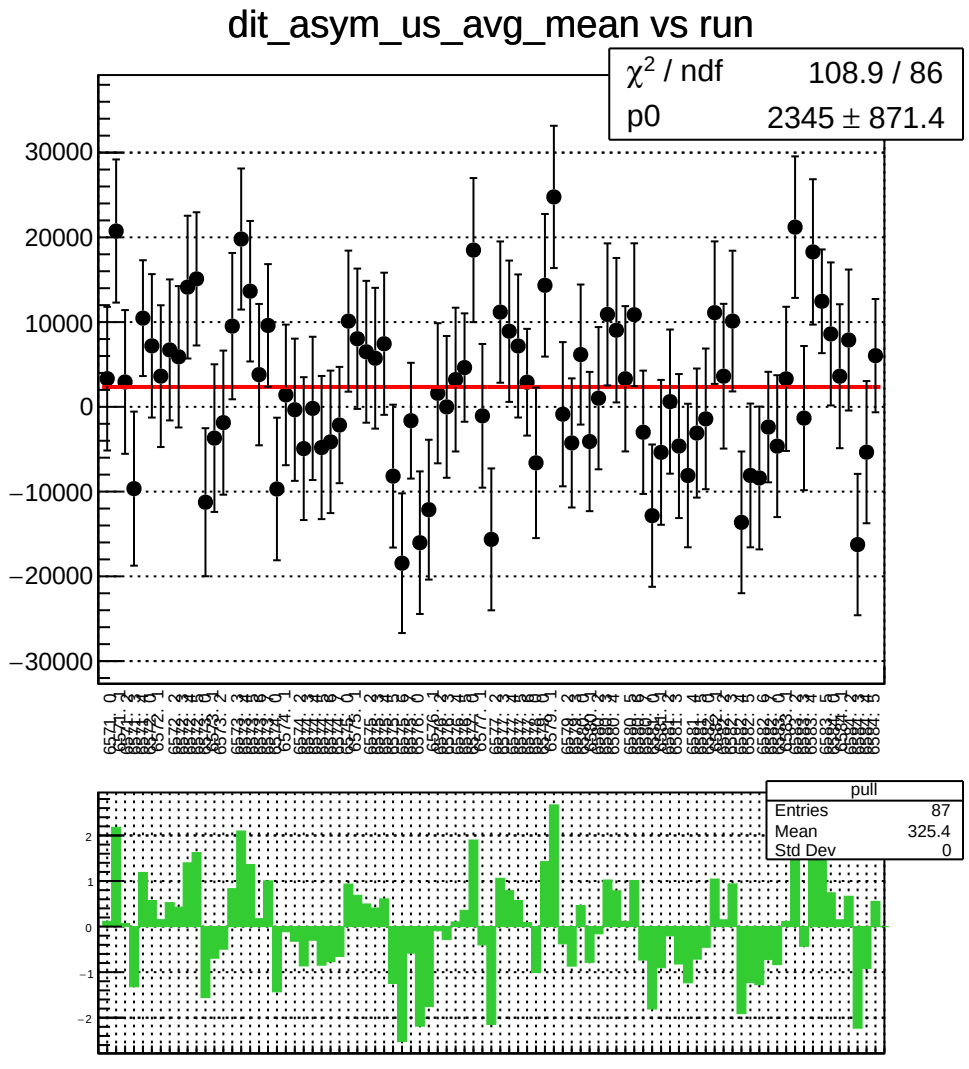

pull1D
Entries 87
Mean −0.01083
Std Dev 1.112

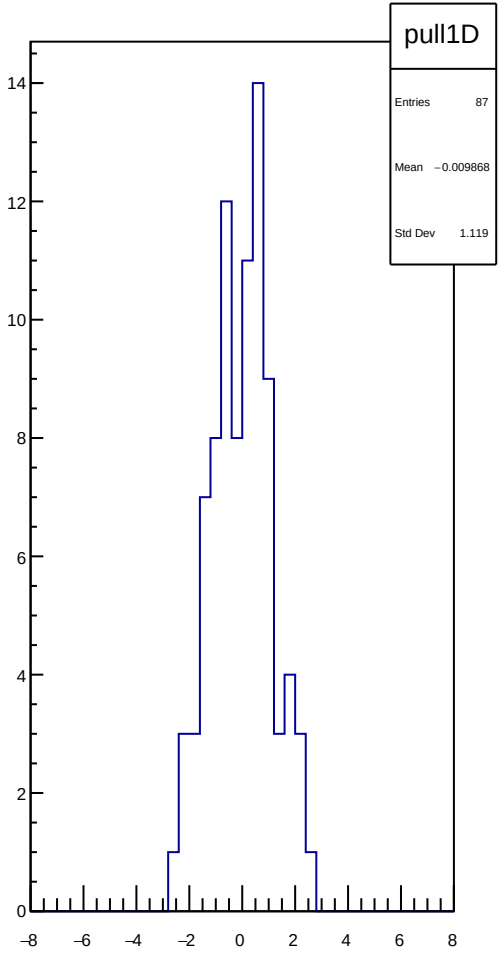

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 459.8 / 86
p0 792.2 ± 0.61
880
860
840
820
800
780
760

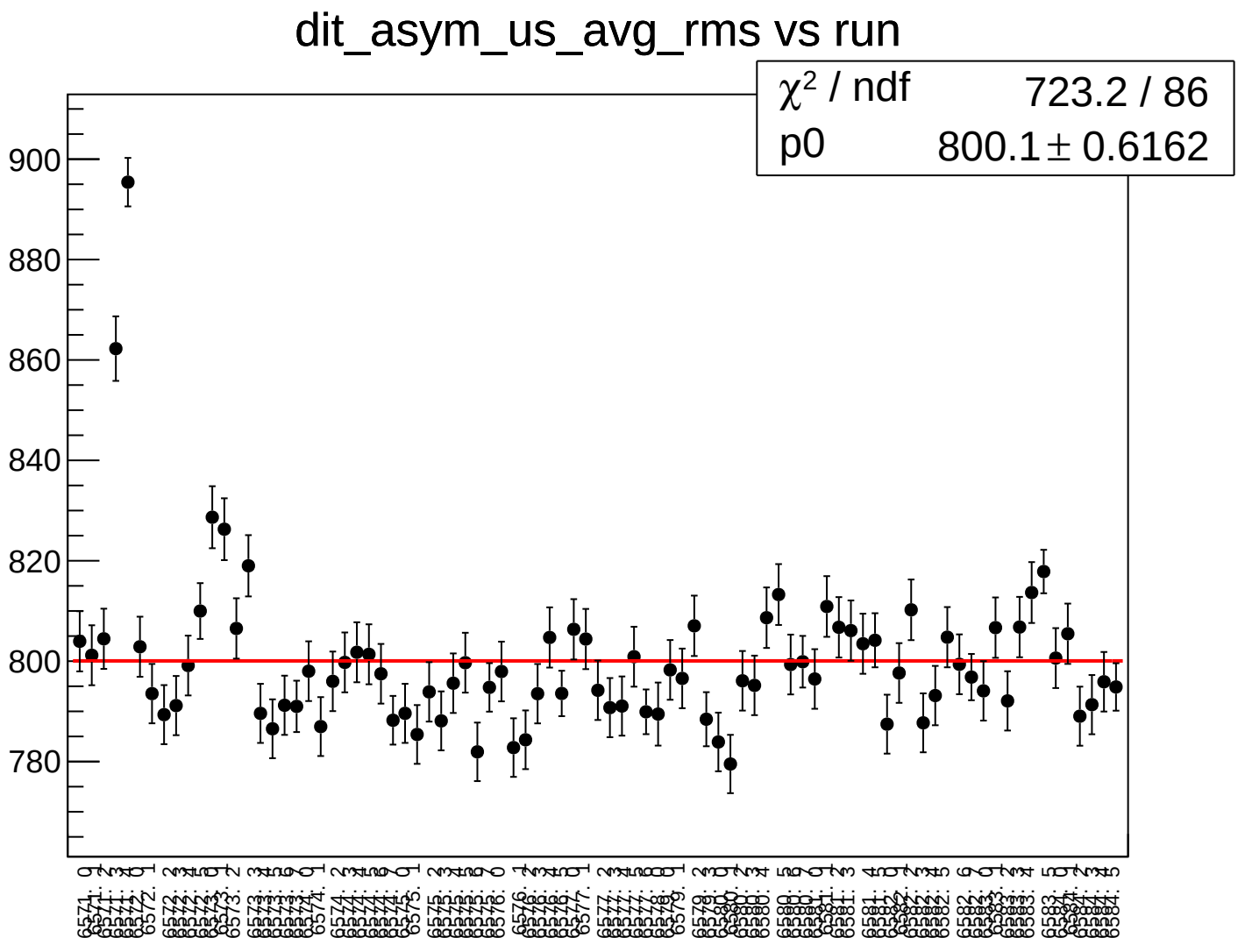

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.76 / 86
p0 1166 ± 1498
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −663.7
Std Dev 0
2
1
0
−1
−2
−3

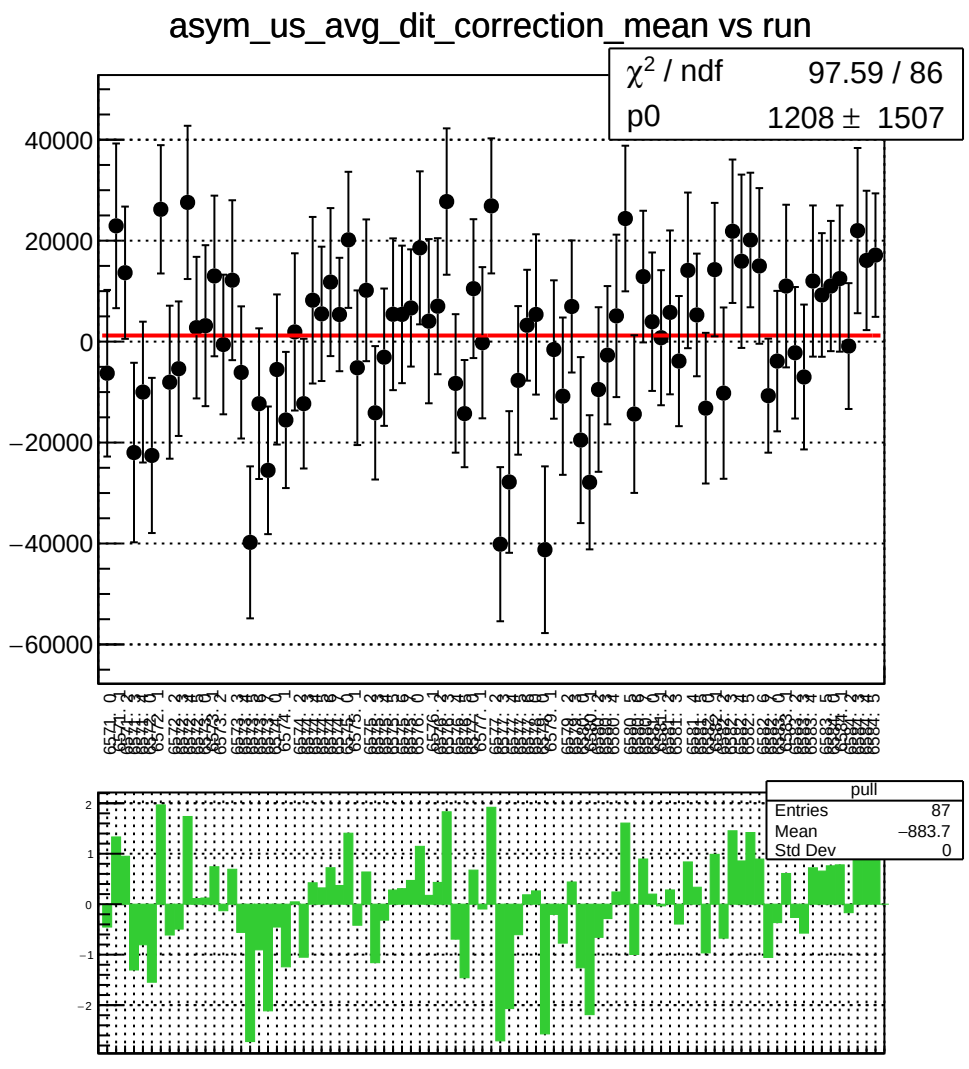

pull1D
Entries 87
Mean −0.006346
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

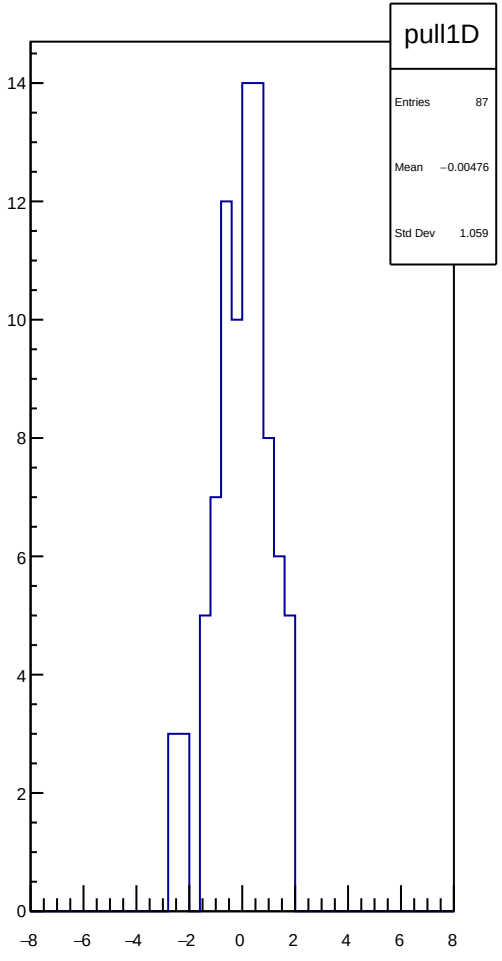

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.531e+04 / 86
p0 1369 ± 1.059
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

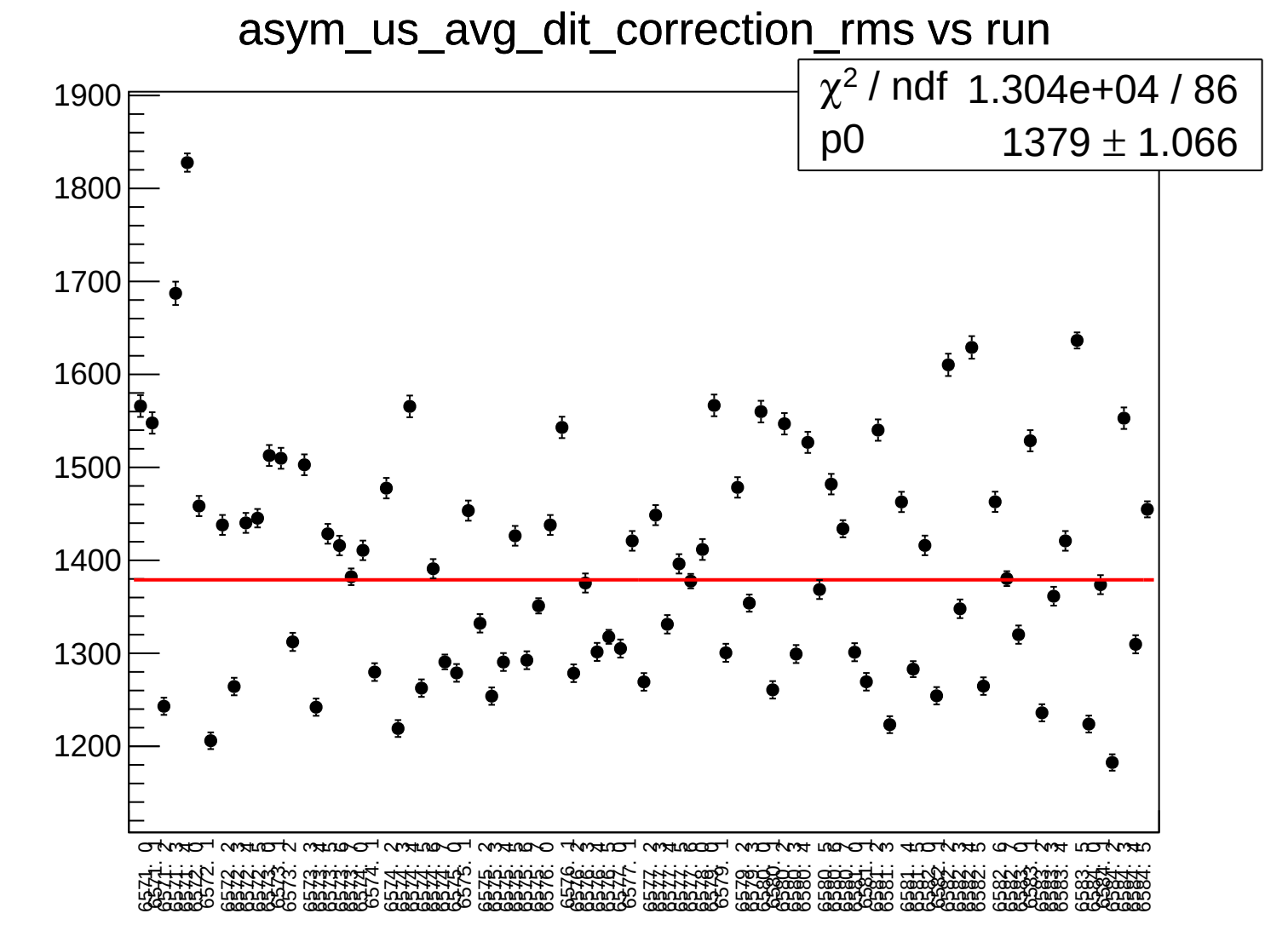

dit_asym_us_avg_mean vs run
χ² / ndf 108.9 / 86
p0 2345 ± 871.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 325.4
Std Dev 0
2
1
0
−1
−2

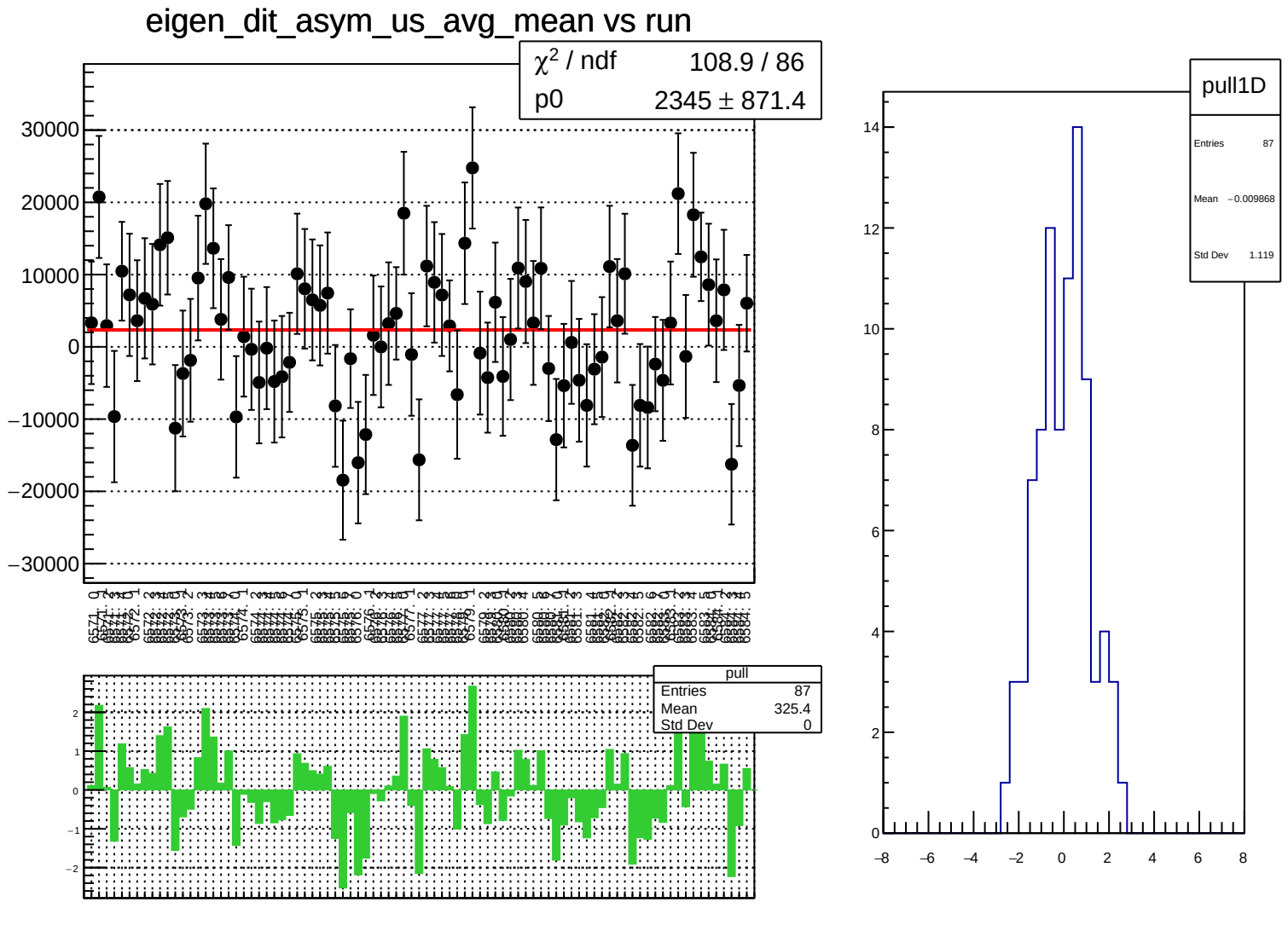

pull1D
Entries 87
Mean −0.009868
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

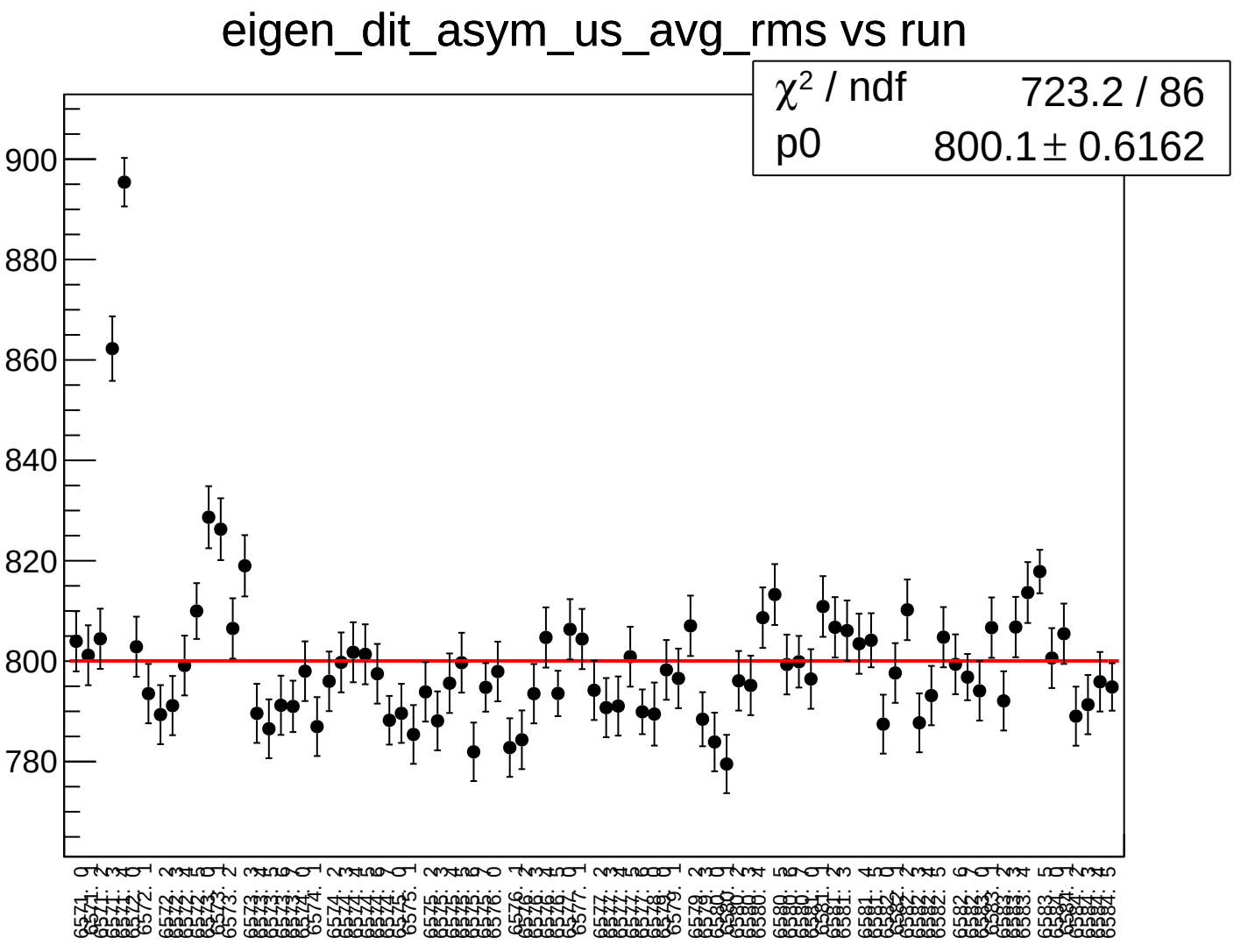

dit_asym_us_avg_rms vs run
χ² / ndf 723.2 / 86
p0 800.1 ± 0.6162
900
880
860
840
820
800
780

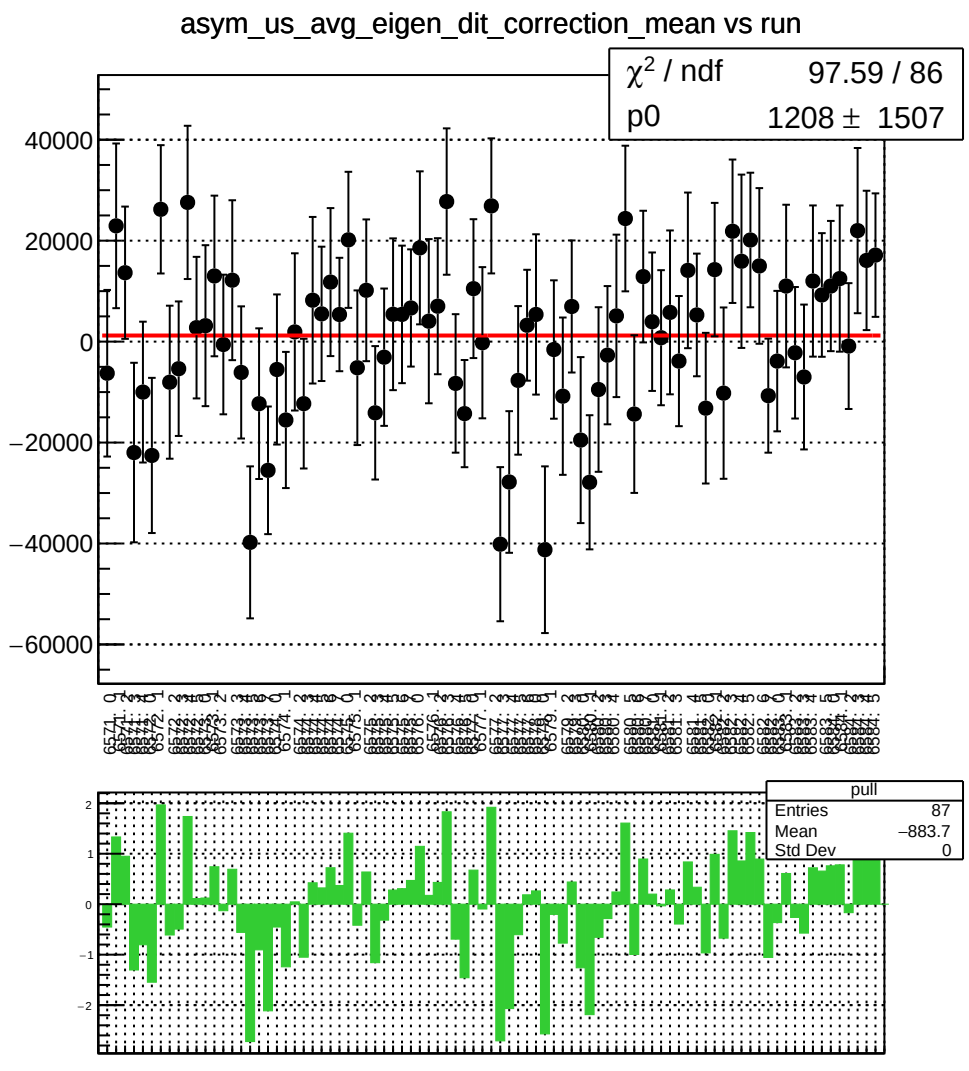

asym_us_avg_dit_correction_mean vs run
χ² / ndf 97.59 / 86
p0 1208 ± 1507
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −883.7
Std Dev 0
2
1
0
−1
−2

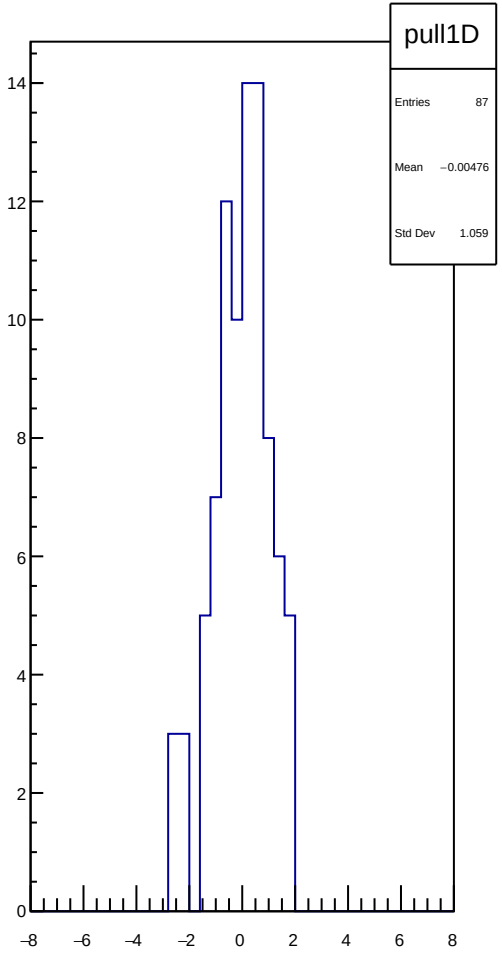

pull1D
Entries 87
Mean −0.00476
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

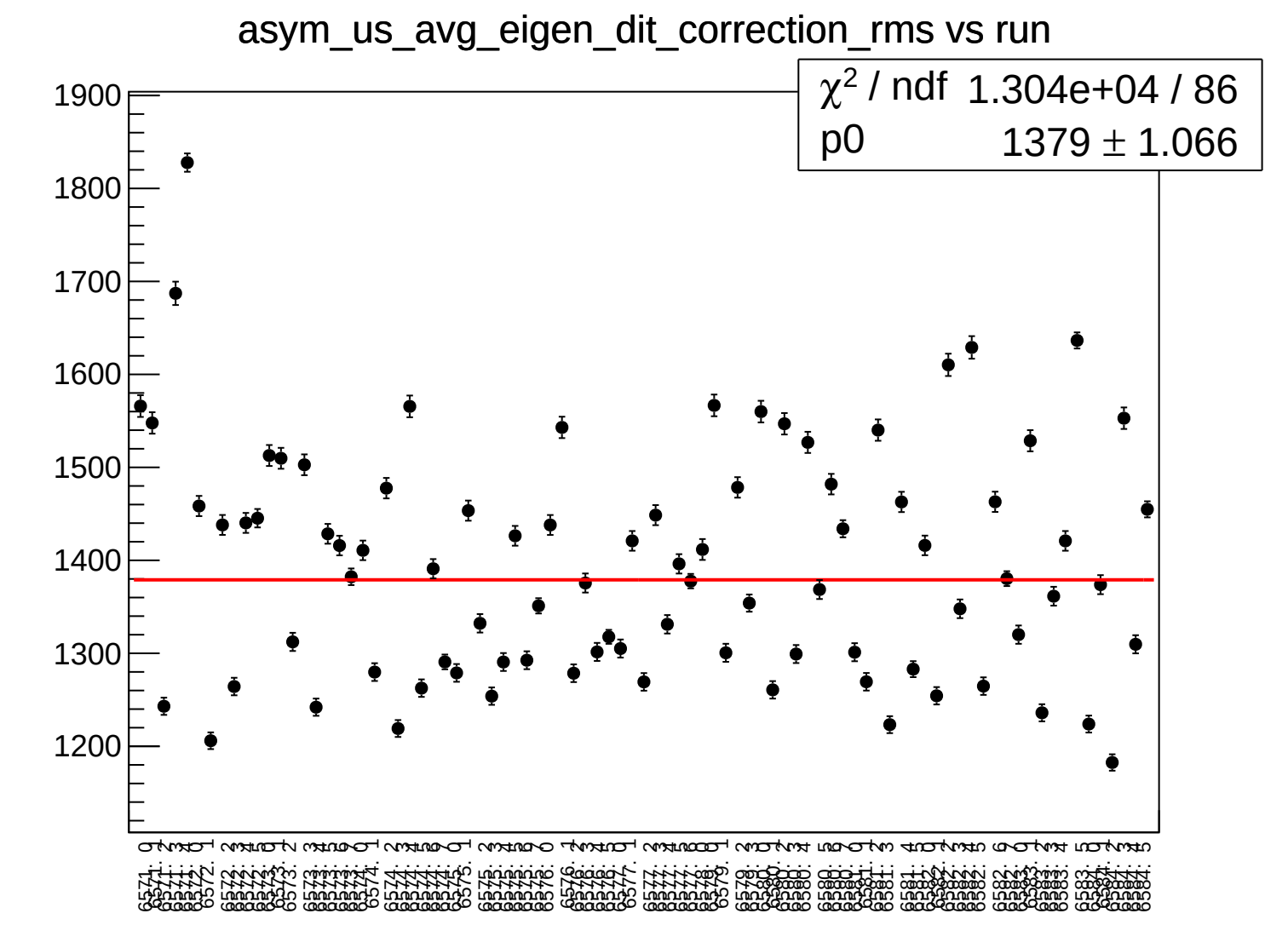

asym_us_avg_dit_correction_rms vs run
χ² / ndf 1.304e+04 / 86
p0 1379 ± 1.066
1900
1800
1700
1600
1500
1400
1300
1200

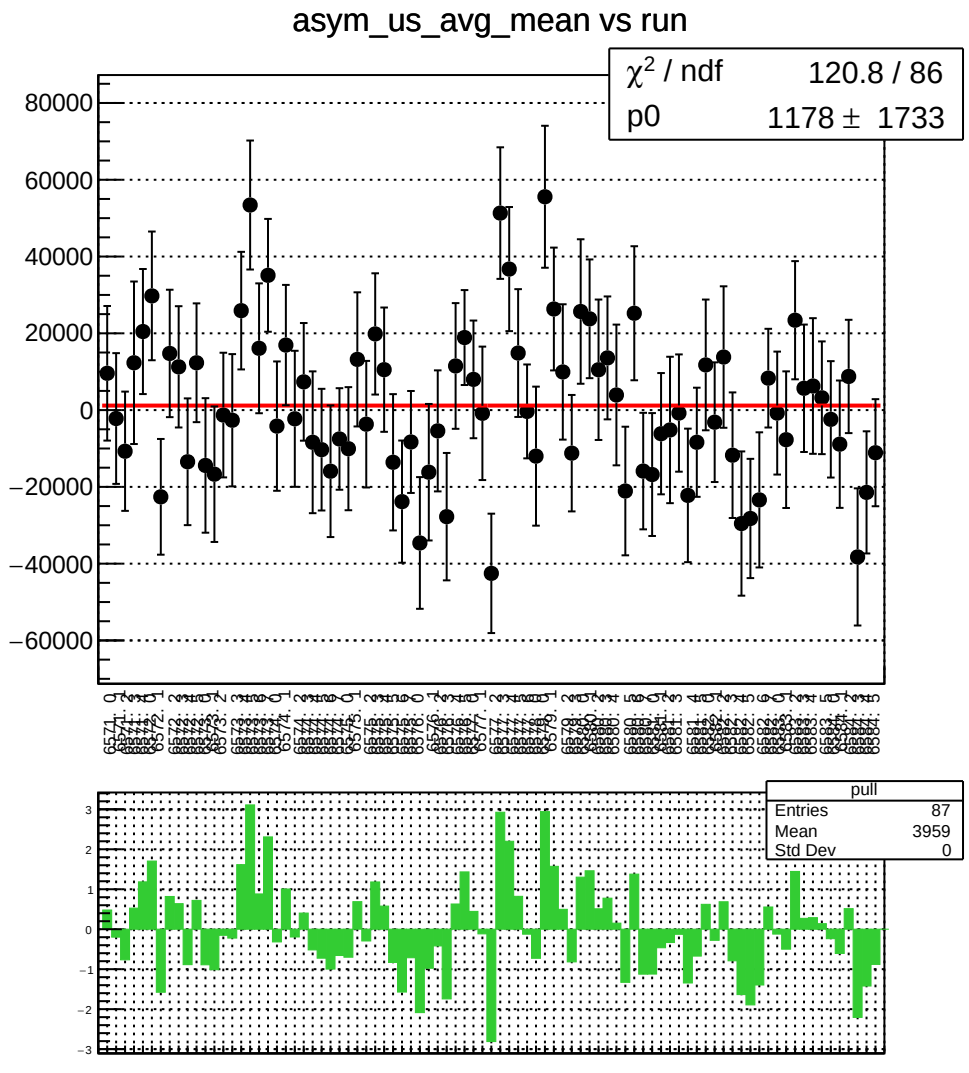

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 108.9 / 86
p0 2345 ± 871.4
pull
Entries 87
Mean 325.4
Std Dev 0
pull1D
Entries 87
Mean −0.009868
Std Dev 1.119

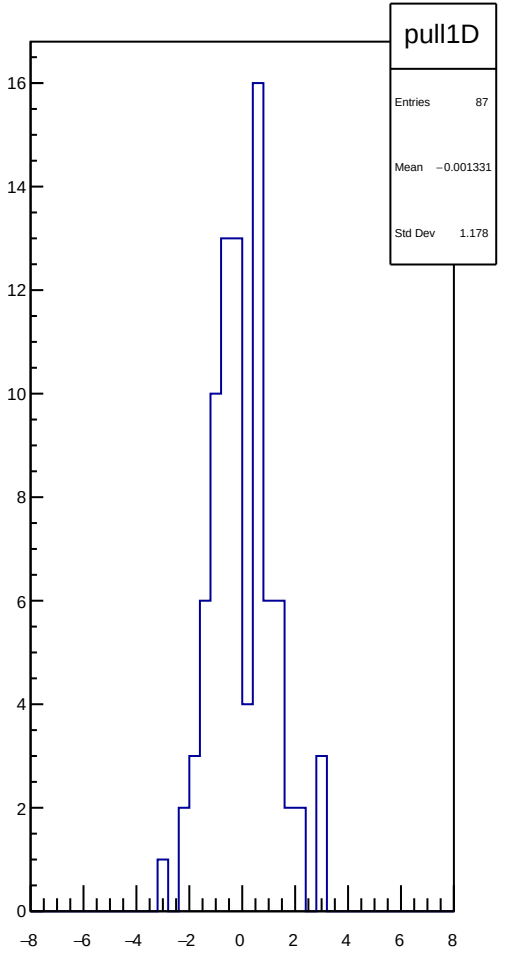

eigen_dit_asym_us_avg_rms vs run
χ^2 / ndf 723.2 / 86
p0 800.1 ± 0.6162
900
880
860
840
820
800
780

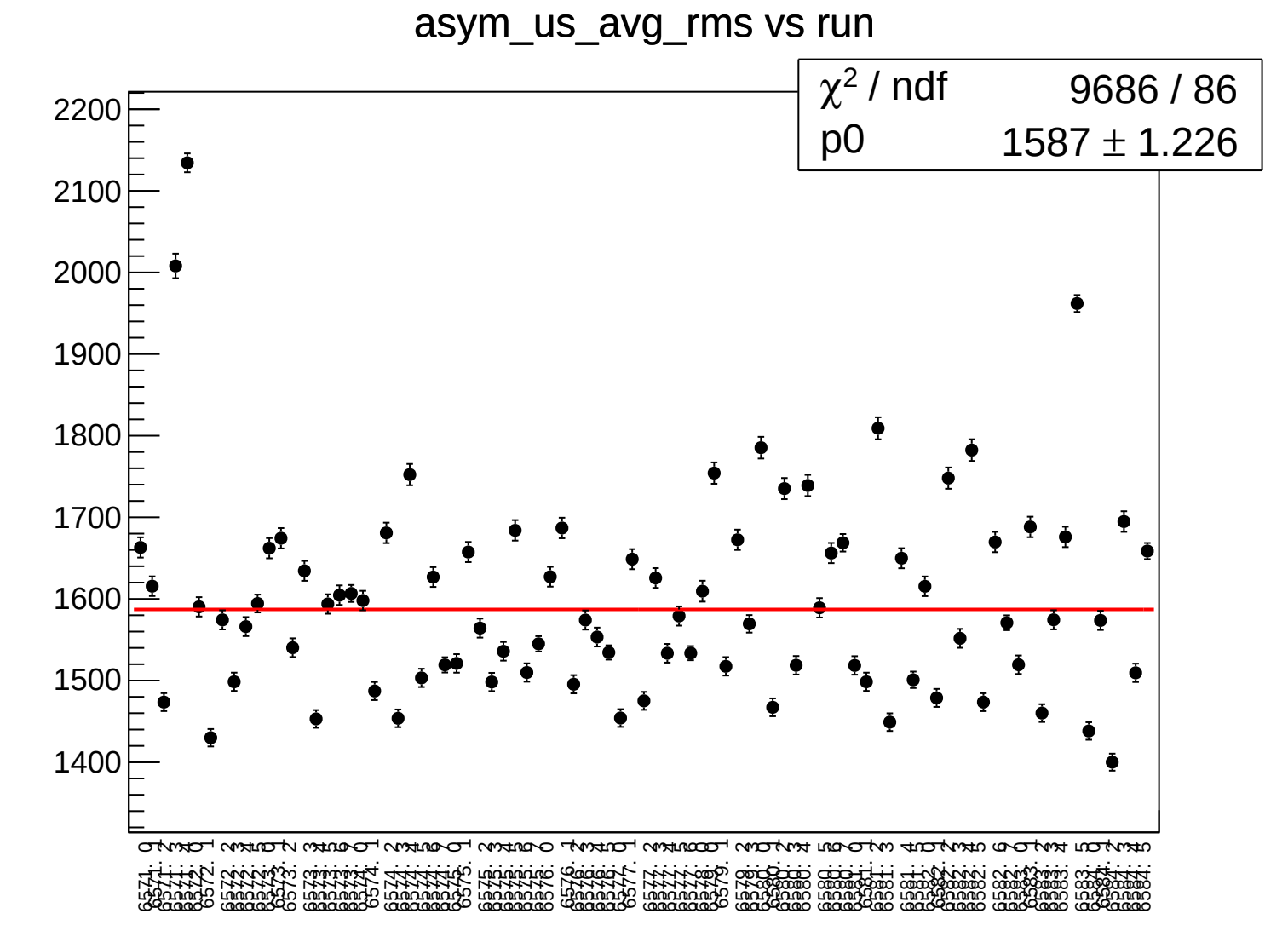

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.59 / 86
p0 1208 ± 1507
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −883.7
Std Dev 0
2
1
0
−1
−2

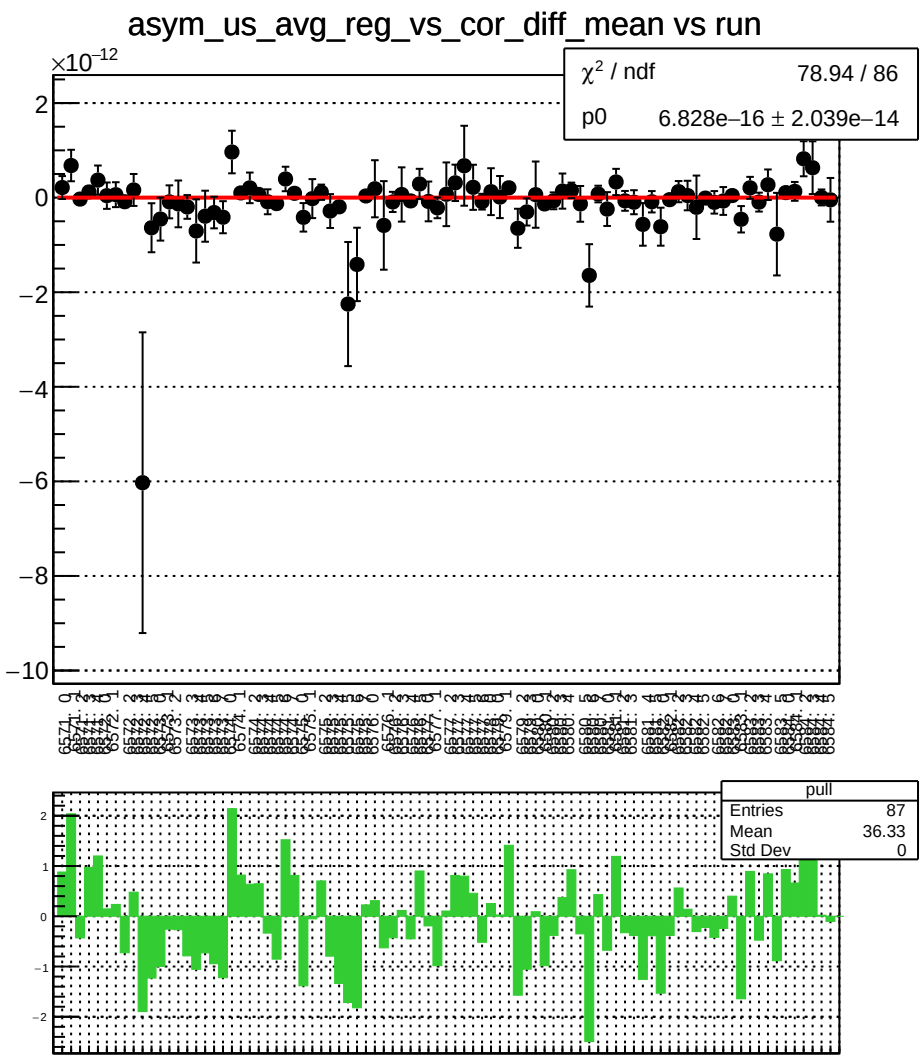

pull1D
Entries 87
Mean −0.00476
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

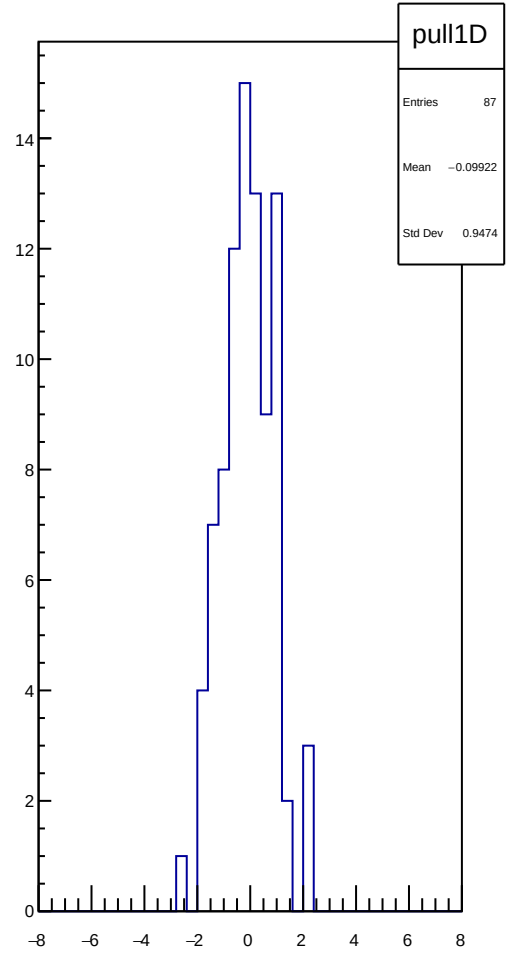

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.304e+04 / 86
p0 1379 ± 1.066
1900
1800
1700
1600
1500
1400
1300
1200

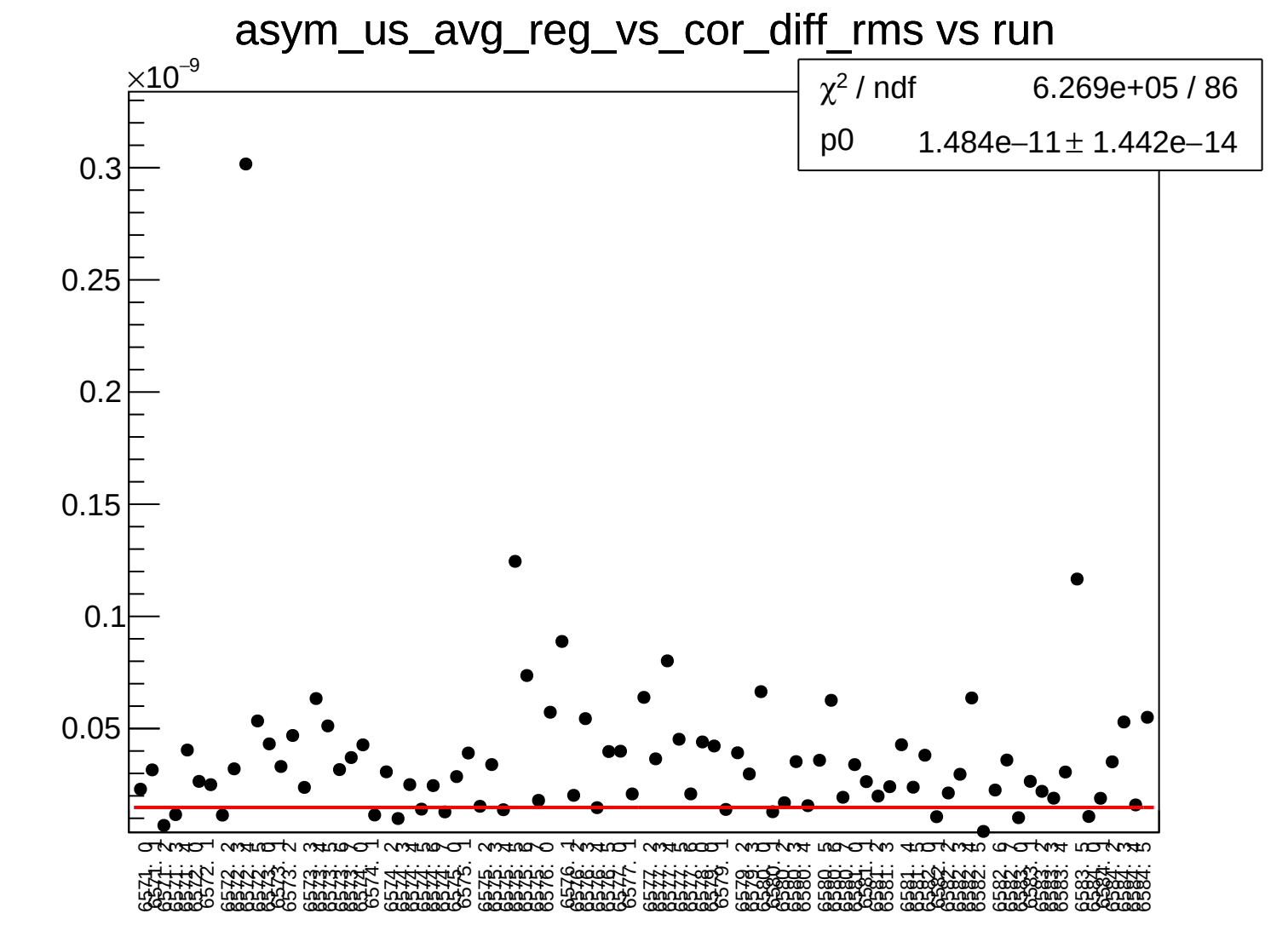

asym_us_avg_mean vs run
χ² / ndf 120.8 / 86
p0 1178 ± 1733
pull
Entries 87
Mean 3959
Std Dev 0

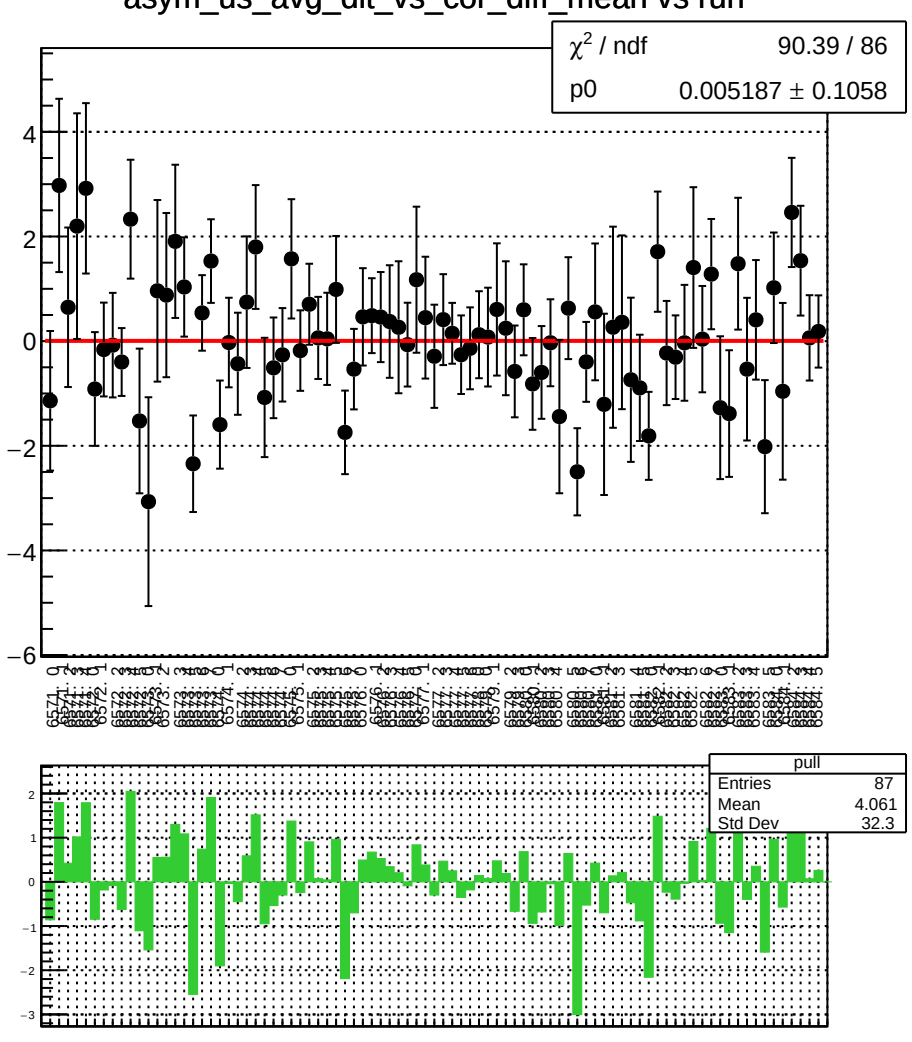

pull1D
Entries 87
Mean −0.001331
Std Dev 1.178

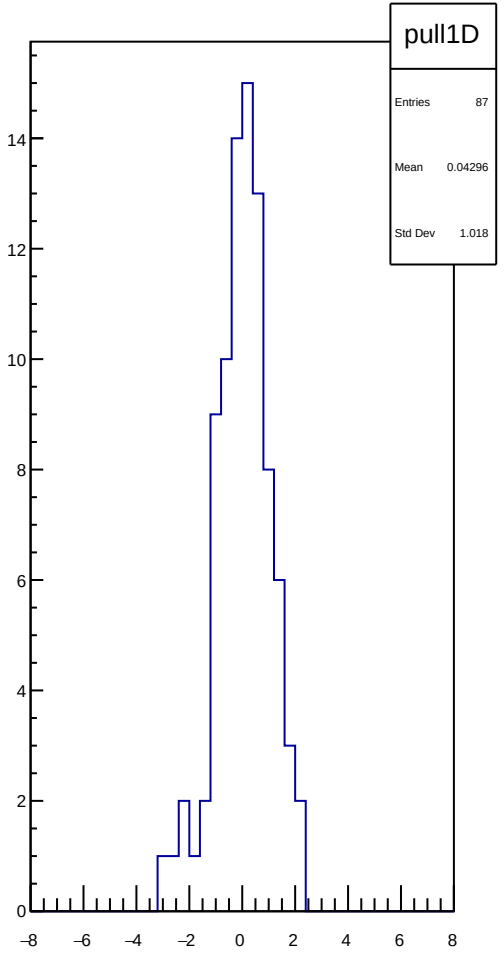

asym_us_avg_rms vs run
χ^2 / ndf 9686 / 86
p0 1587 ± 1.226
2200
2100
2000
1900
1800
1700
1600
1500
1400

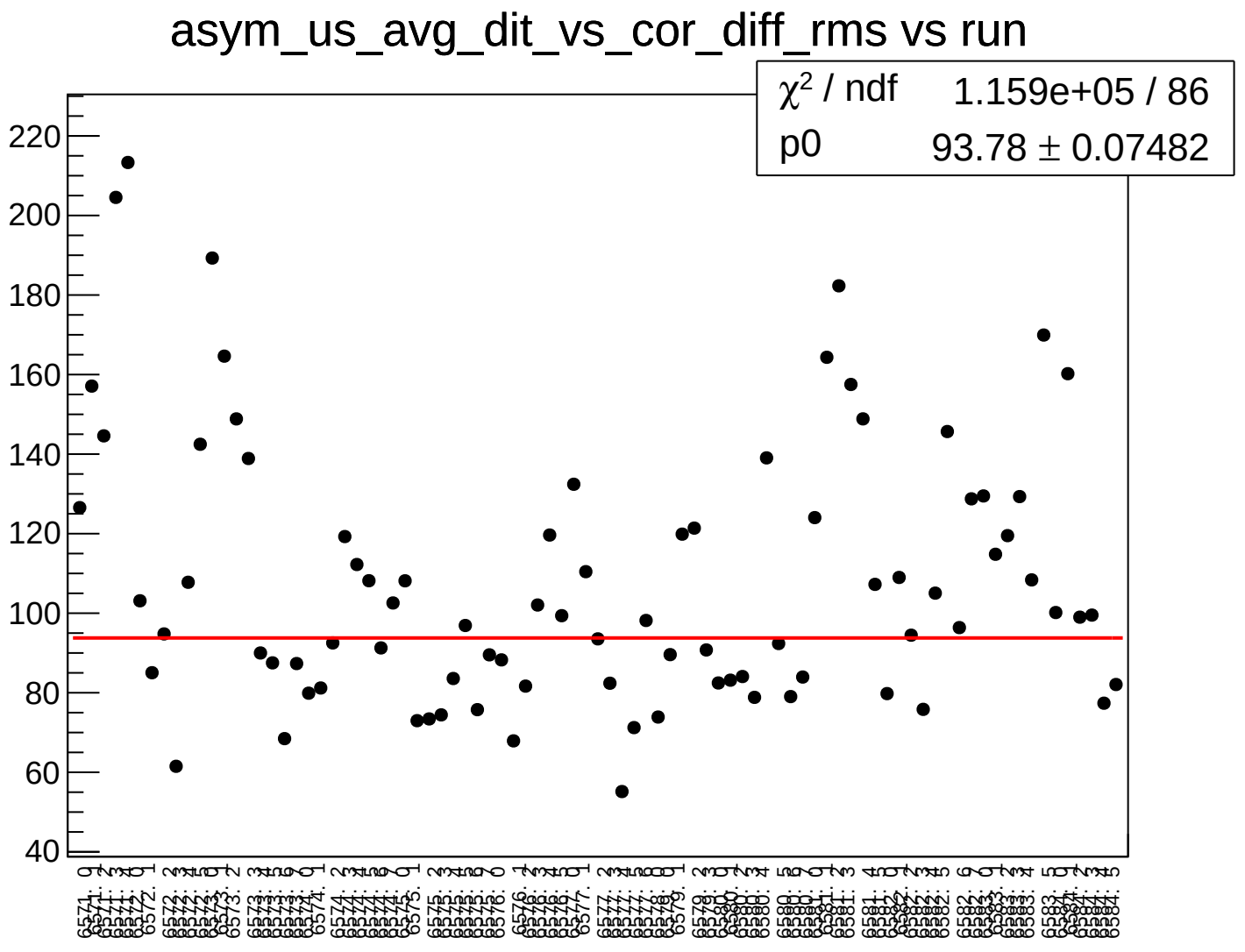

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.94 / 86
p0 6.828e−16 ± 2.039e−14
pull
Entries 87
Mean 36.33
Std Dev 0


pull1D
Entries 87
Mean −0.09922
Std Dev 0.9474

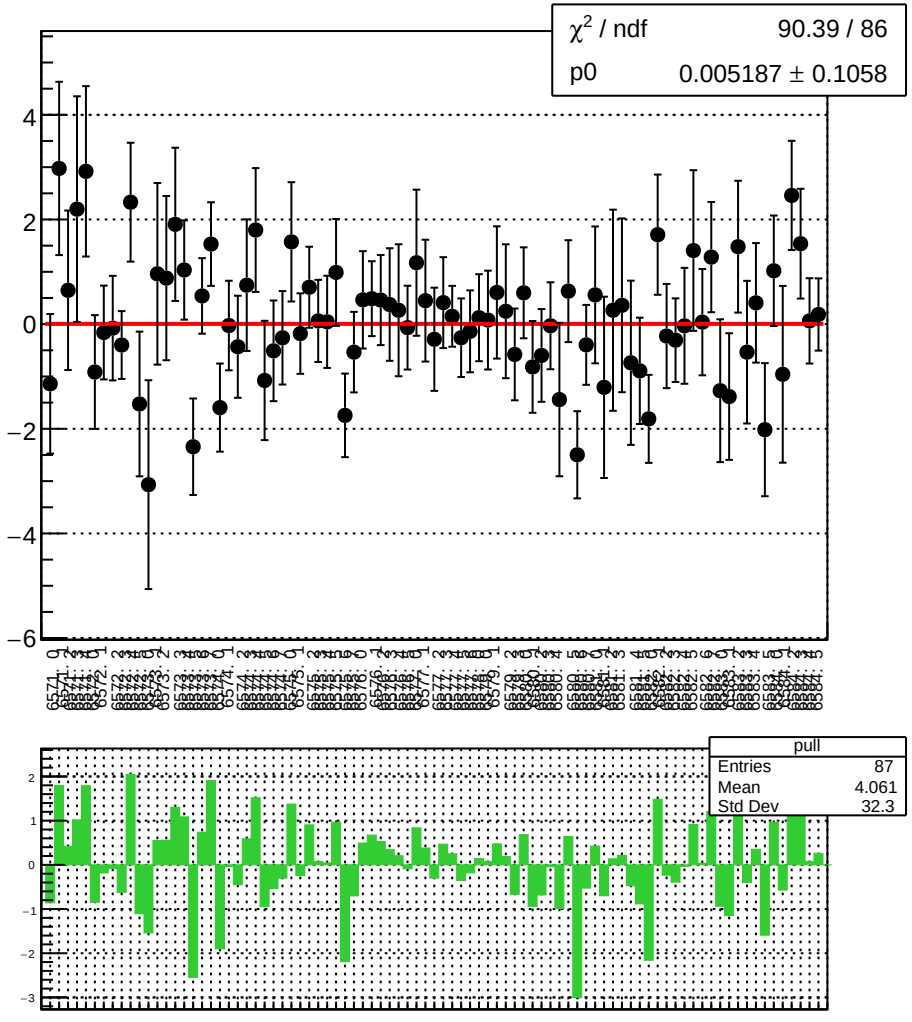

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.269e+05 / 86
p0 1.484e−11 ± 1.442e−14
0.3
0.25
0.2
0.15
0.1
0.05

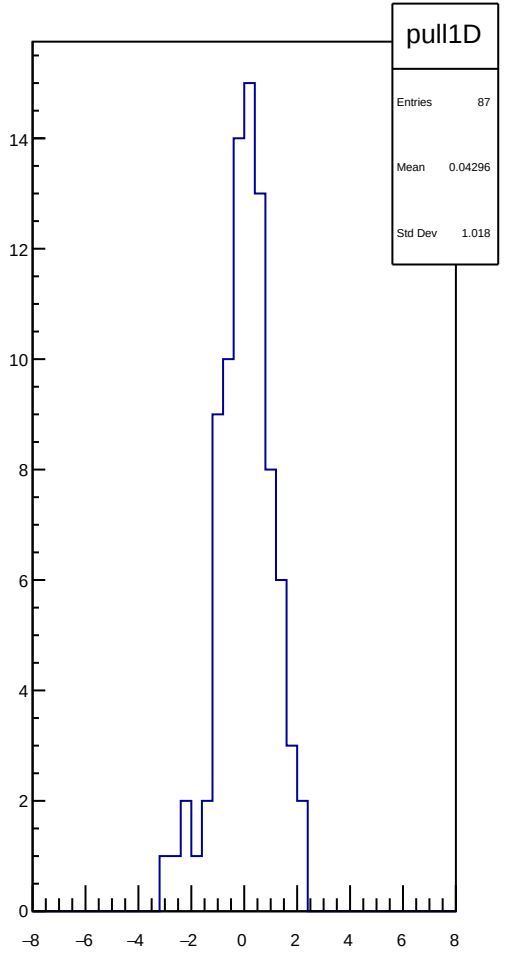

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.39 / 86
p0 0.005187 ± 0.1058
pull
Entries 87
Mean 4.061
Std Dev 32.3

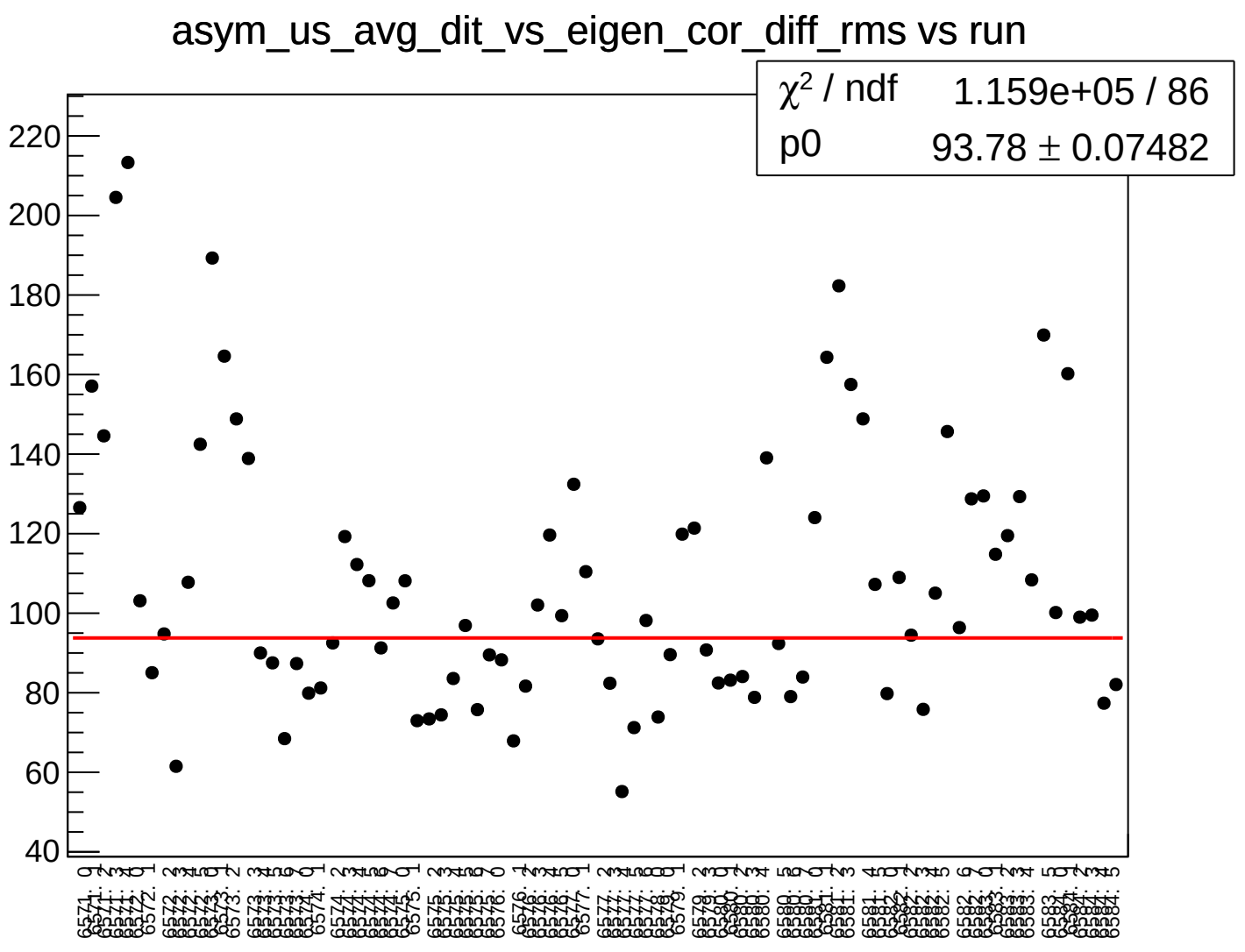

pull1D
Entries 87
Mean 0.04296
Std Dev 1.018

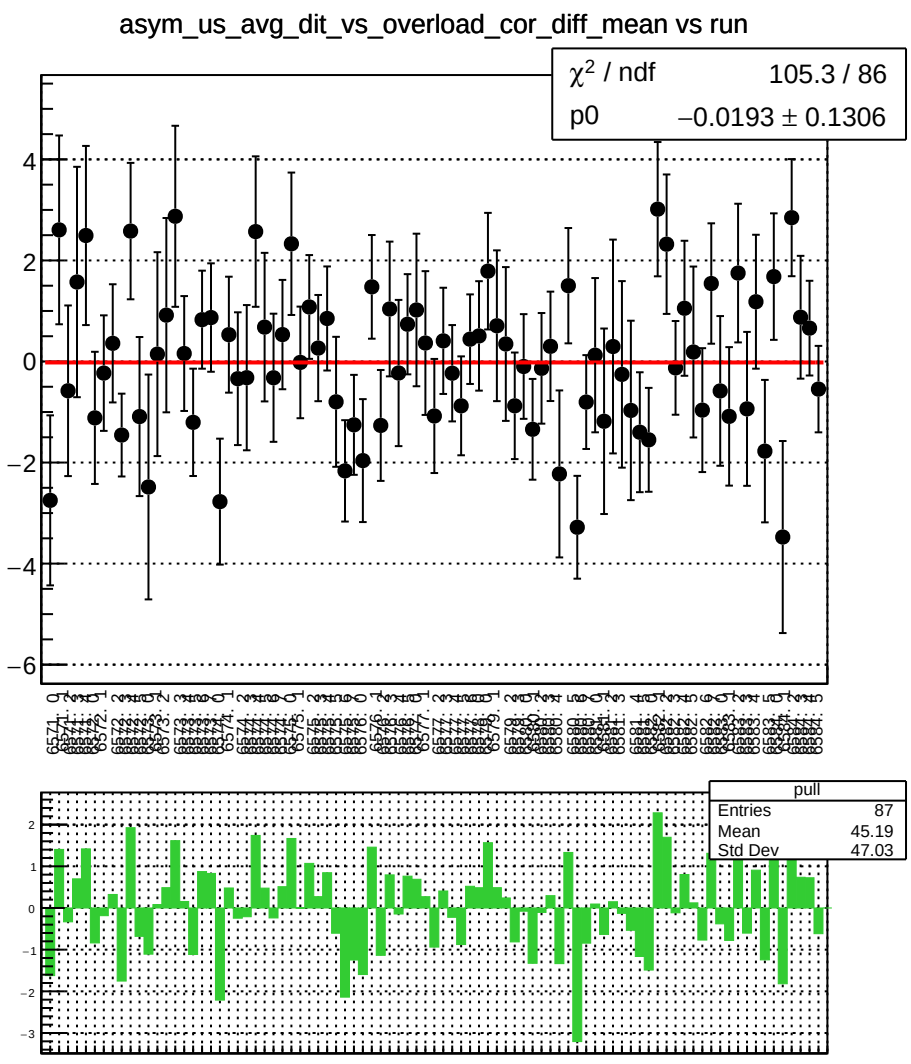

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.159e+05 / 86
p0 93.78 ± 0.07482
220
200
180
160
140
120
100
80
60
40

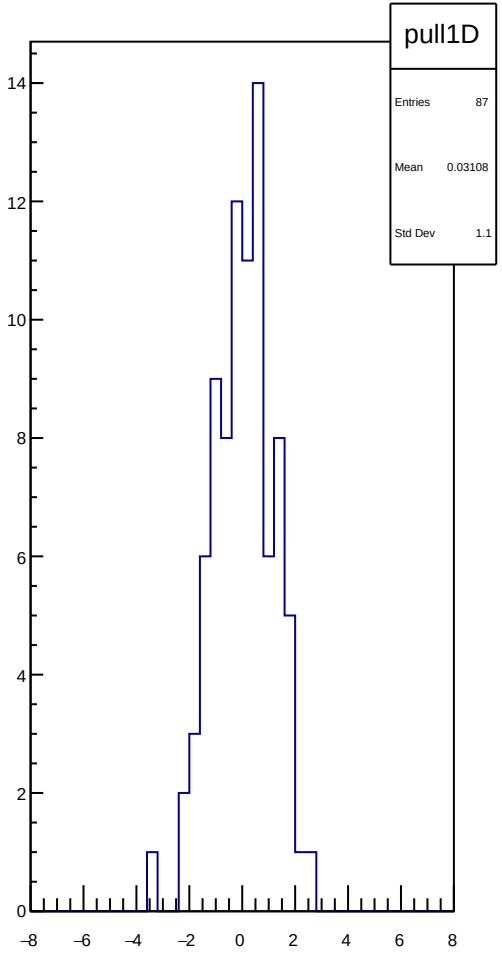
asym_us_avg_dit_vs_eigen_cor_diff_mean vs run

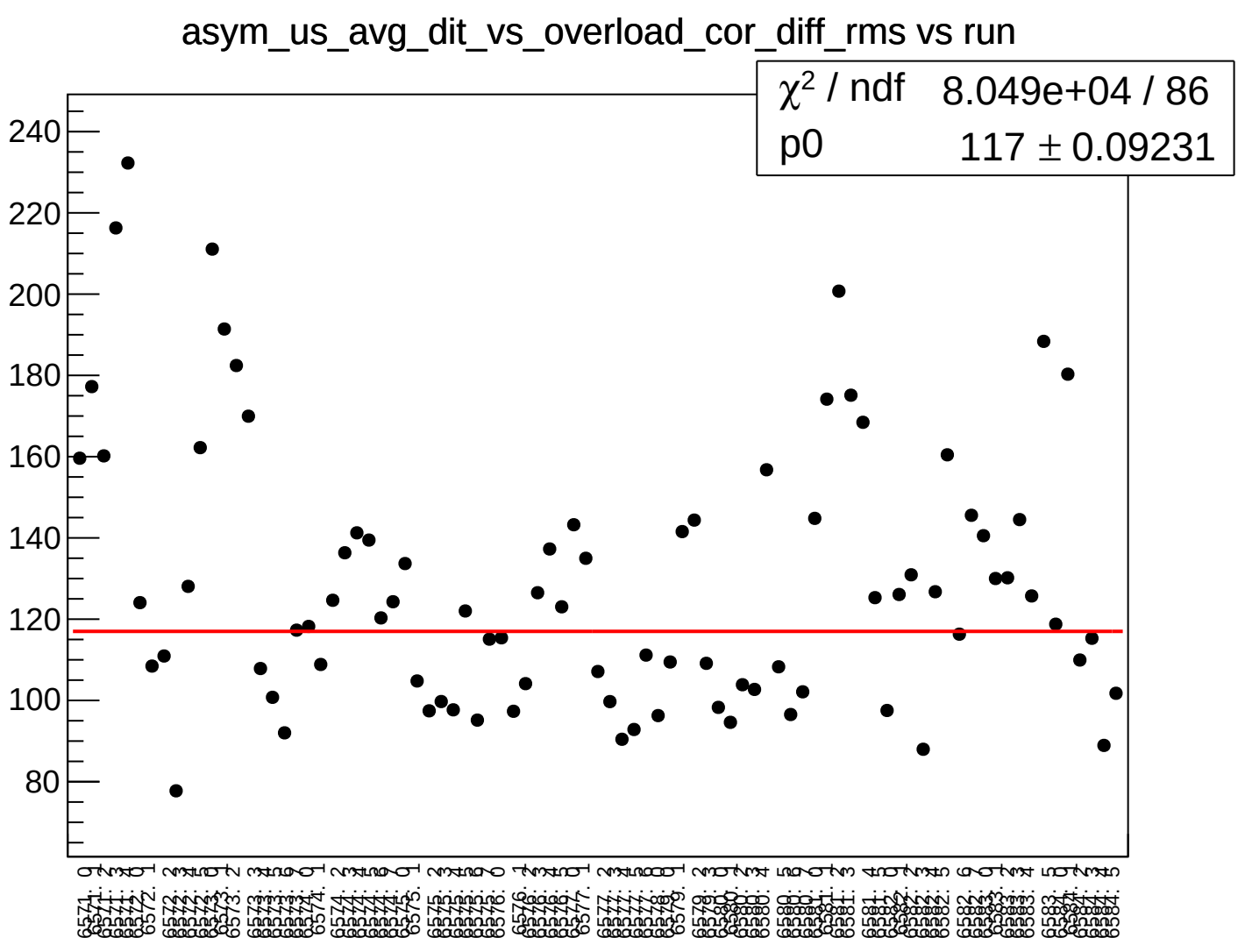


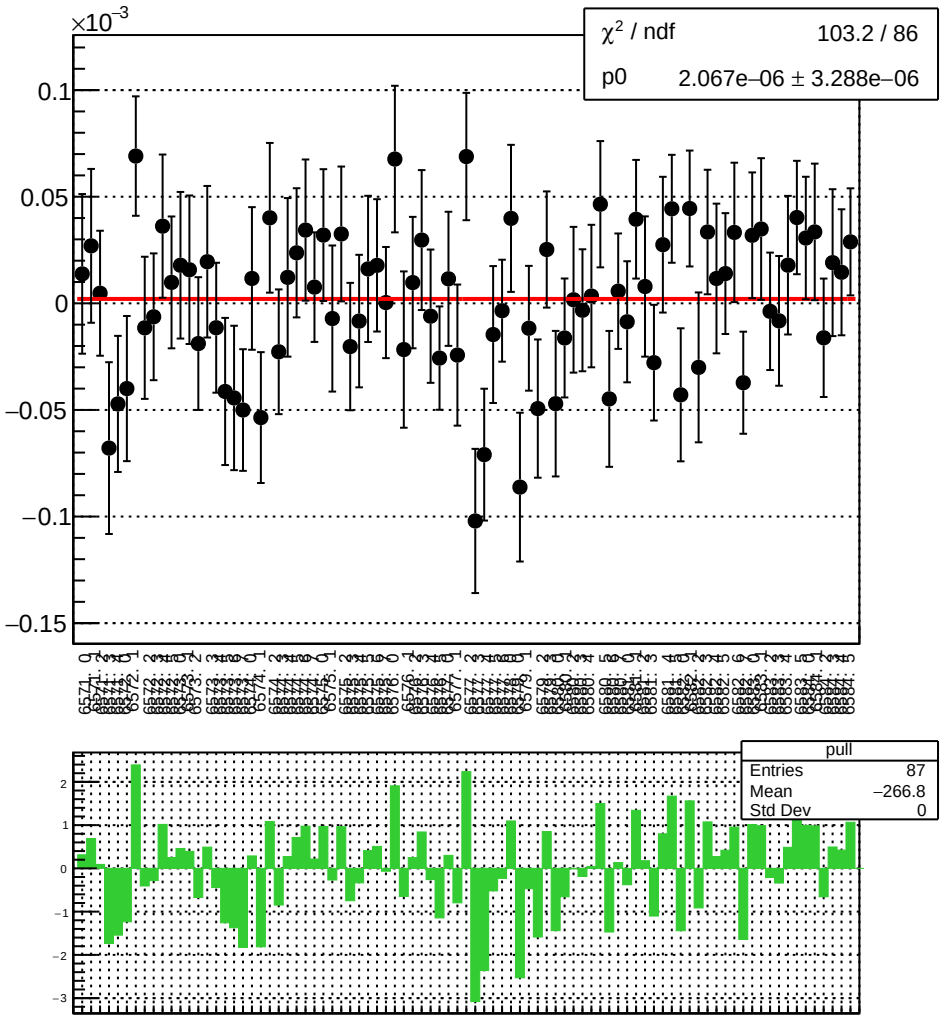


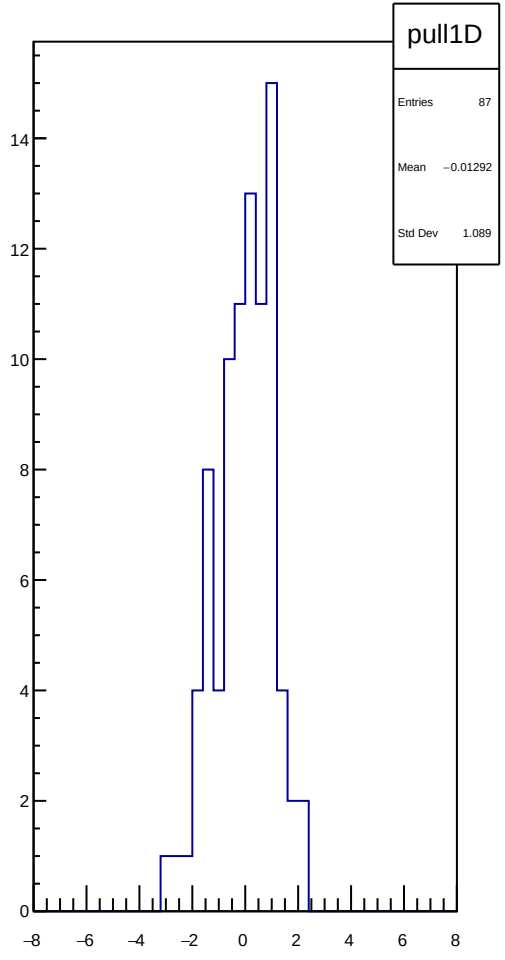

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.159e+05 / 86
p0 93.78 ± 0.07482
220
200
180
160
140
120
100
80
60
40

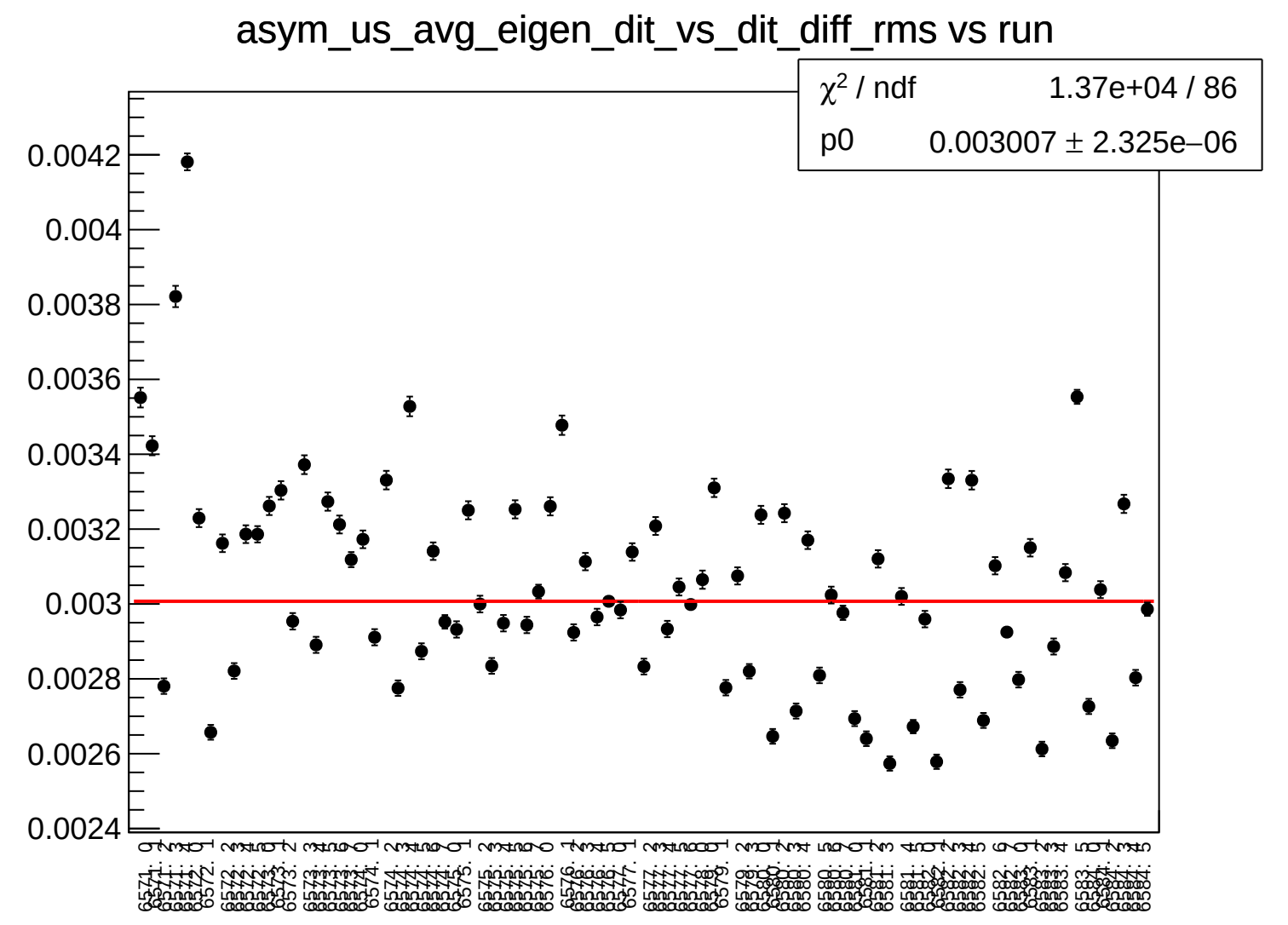

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 105.3 / 86
p0 −0.0193 ± 0.1306
pull
Entries 87
Mean 45.19
Std Dev 47.03

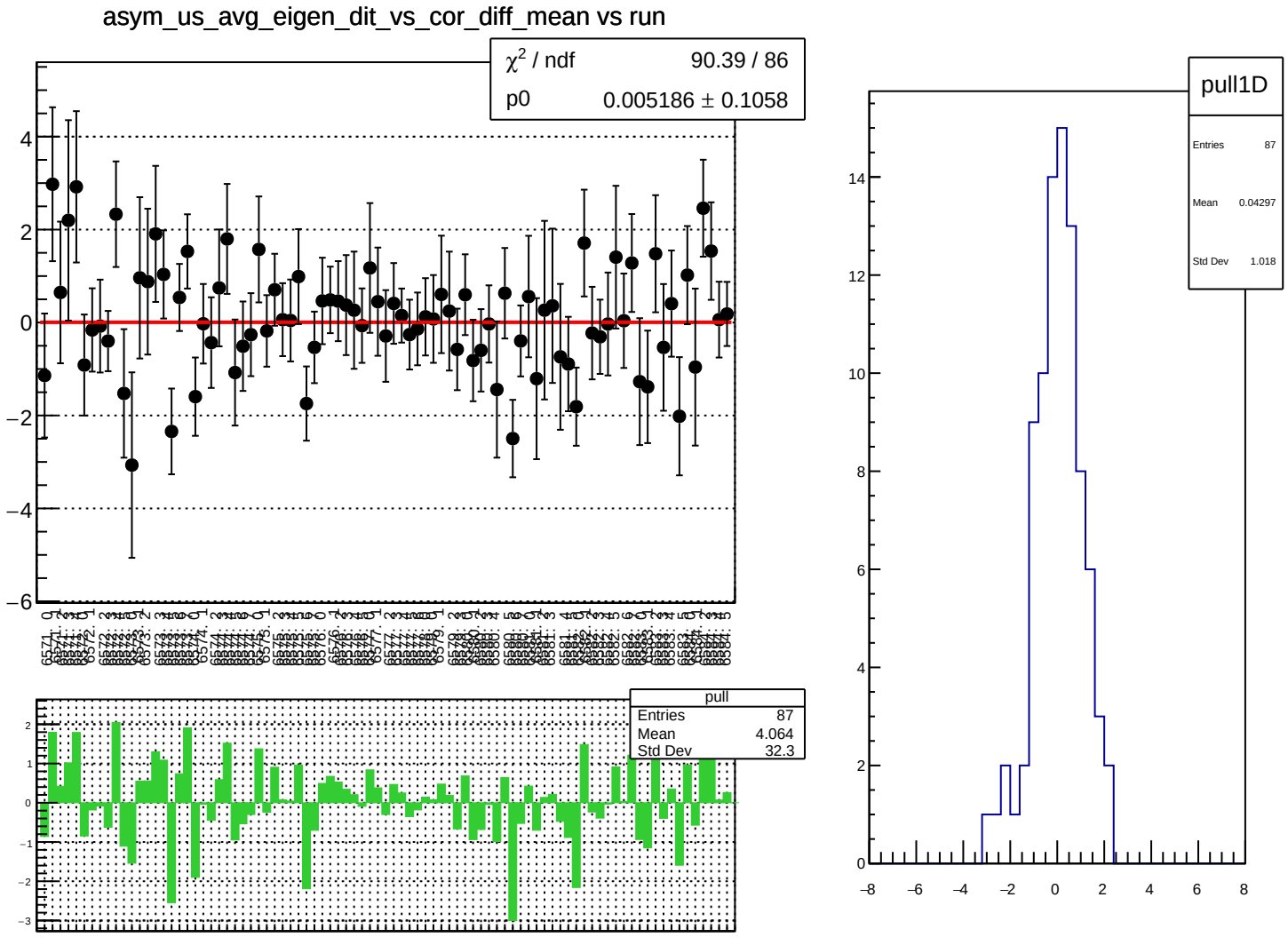

pull1D
Entries 87
Mean 0.03108
Std Dev 1.1

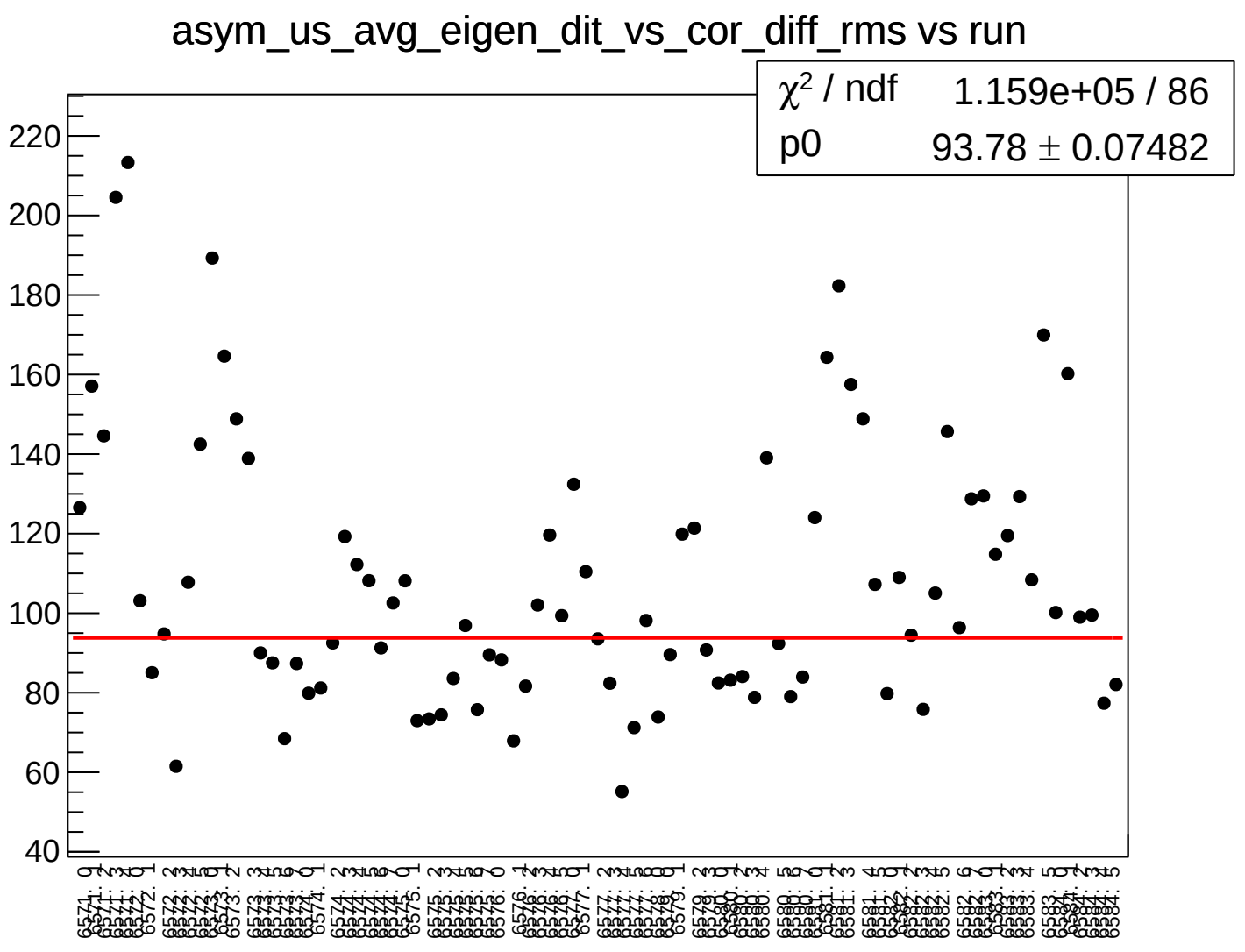

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.049e+04 / 86
p0 117 ± 0.09231
240
220
200
180
160
140
120
100
80

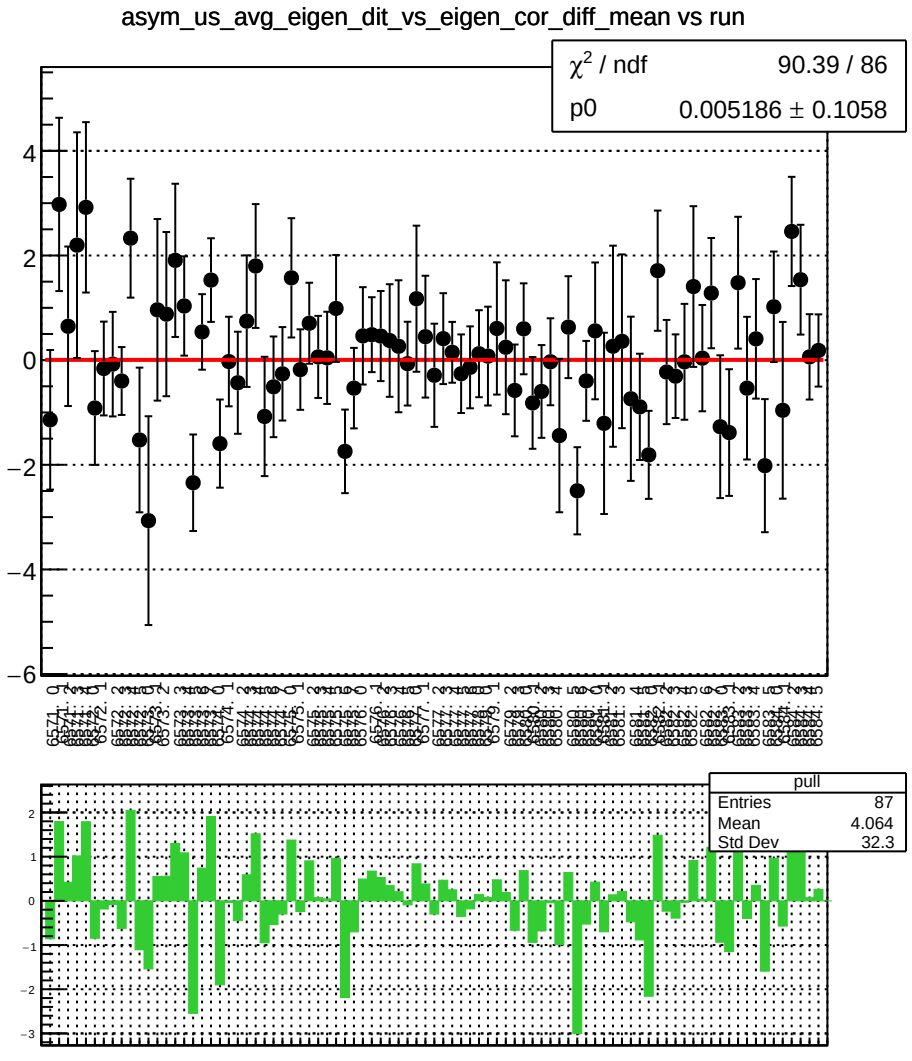

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.2 / 86
p0 2.067e−06 ± 3.288e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean −266.8
Std Dev 0
2
1
0
−1
−2
−3

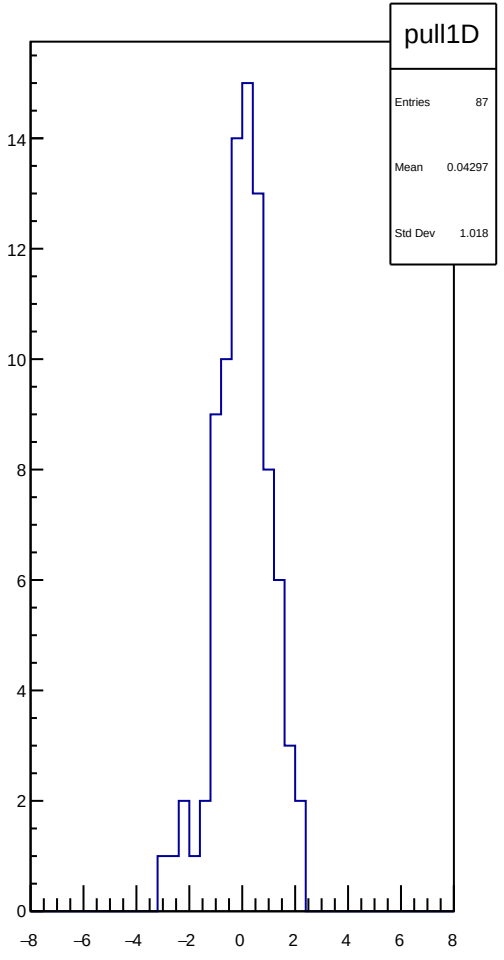

pull1D
Entries 87
Mean −0.01292
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

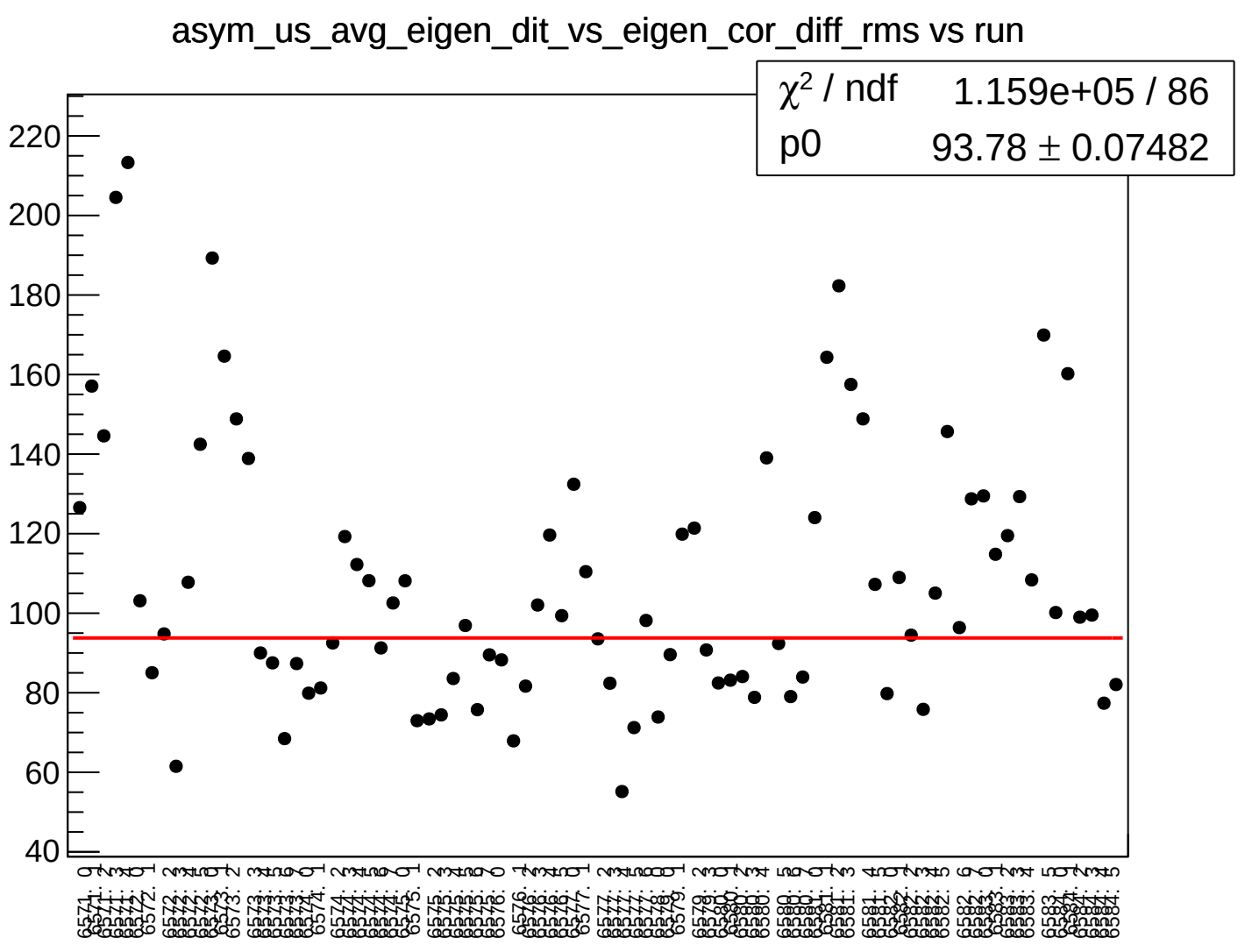

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.37e+04 / 86
p0 0.003007 ± 2.325e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

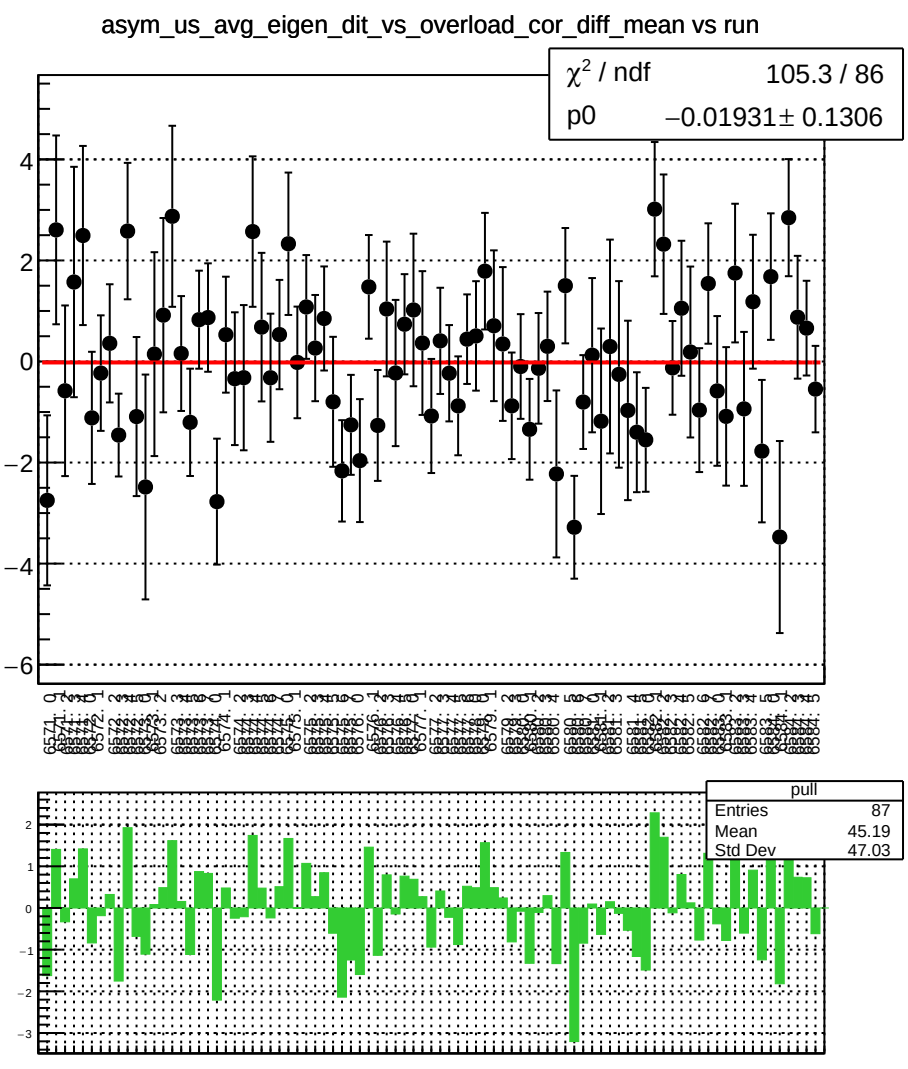

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.39 / 86
p0 0.005186 ± 0.1058
pull
Entries 87
Mean 4.064
Std Dev 32.3
pull1D
Entries 87
Mean 0.04297
Std Dev 1.018

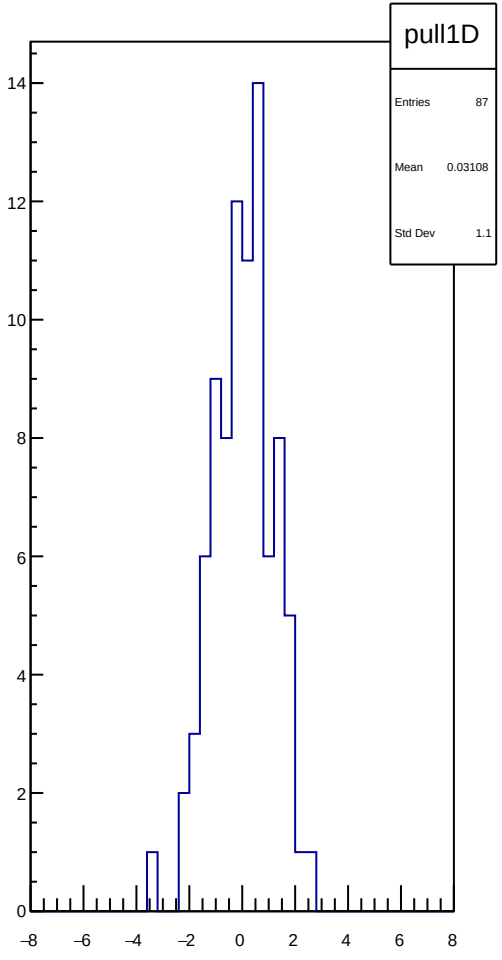

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.159e+05 / 86
p0 93.78 ± 0.07482
220
200
180
160
140
120
100
80
60
40

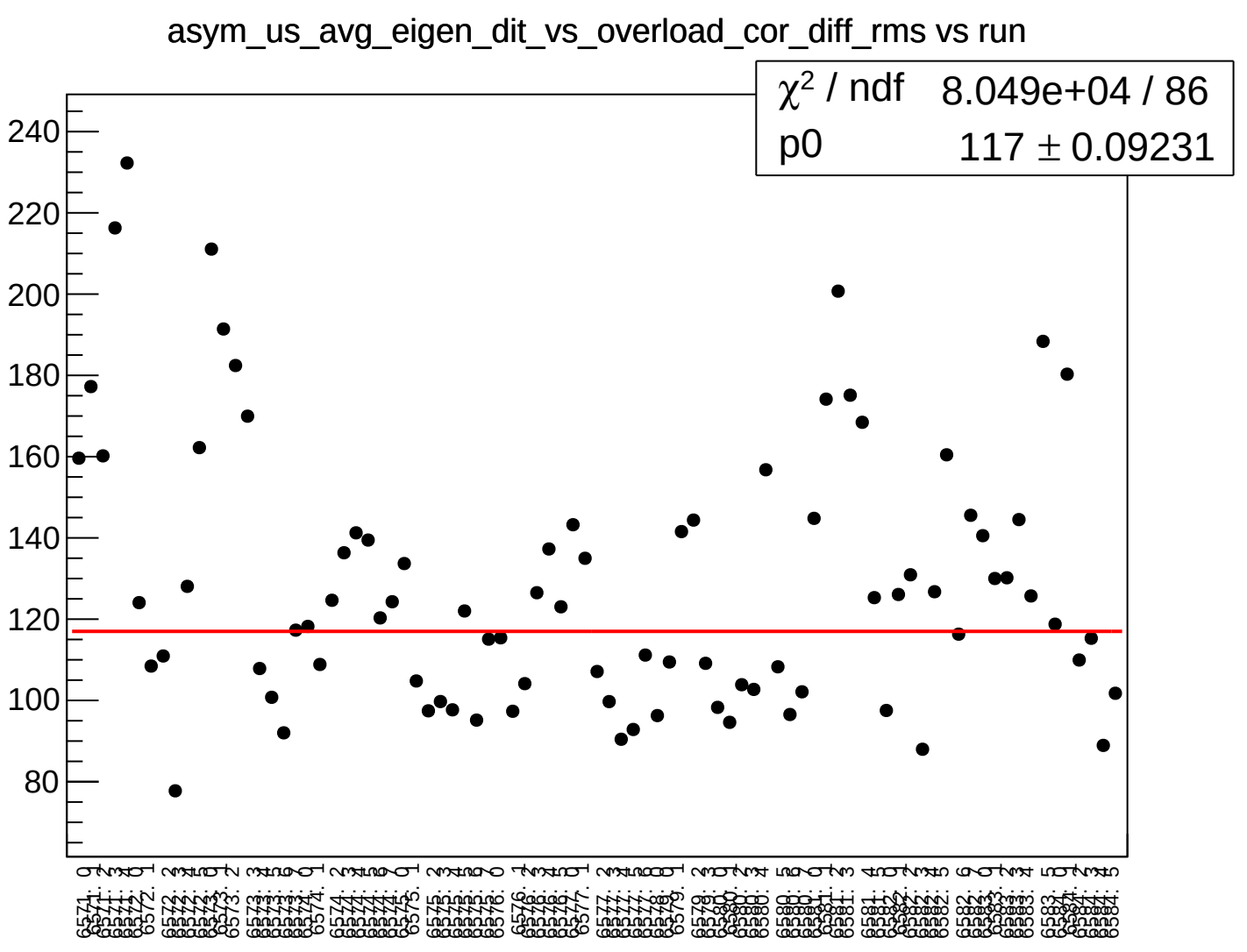

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.39 / 86
p0 0.005186 ± 0.1058
pull
Entries 87
Mean 4.064
Std Dev 32.3

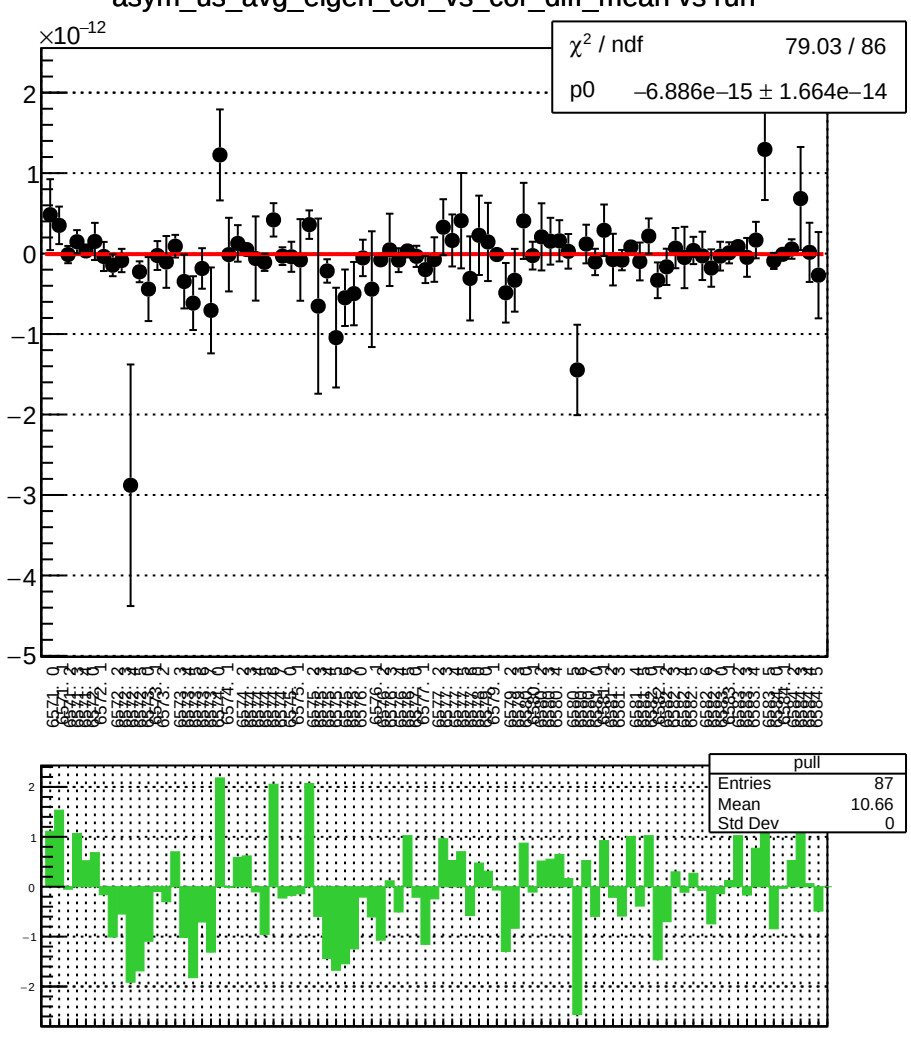

pull1D
Entries 87
Mean 0.04297
Std Dev 1.018

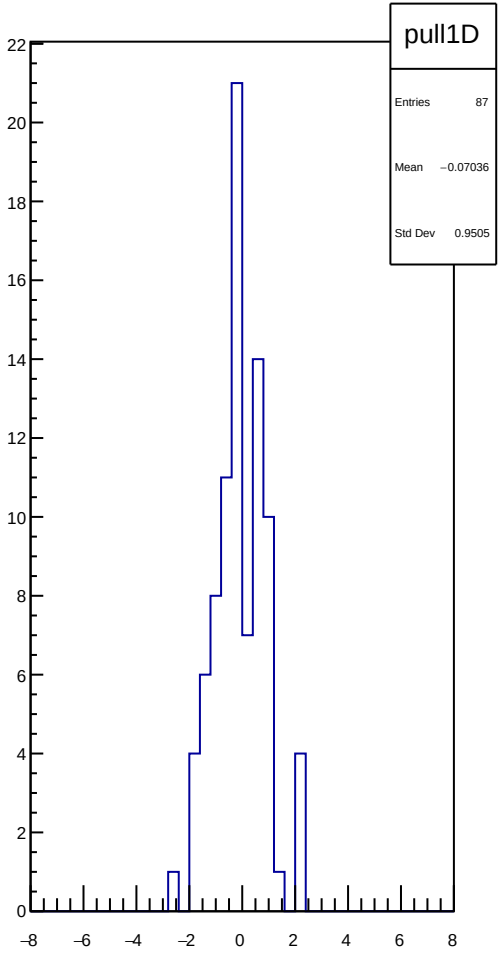

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.159e+05 / 86
p0 93.78 ± 0.07482
220
200
180
160
140
120
100
80
60
40

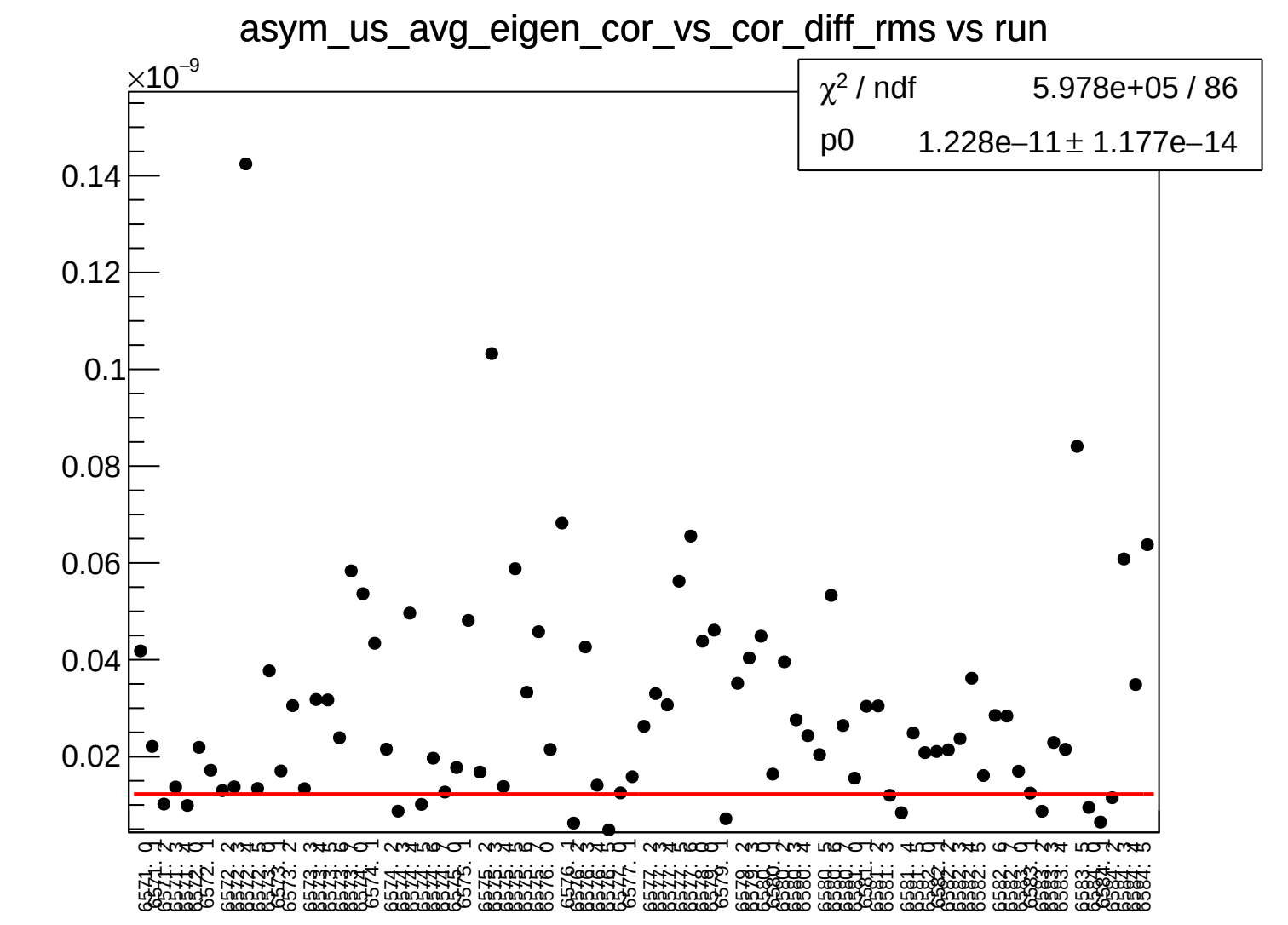

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 105.3 / 86
p0 −0.01931± 0.1306
pull
Entries 87
Mean 45.19
Std Dev 47.03

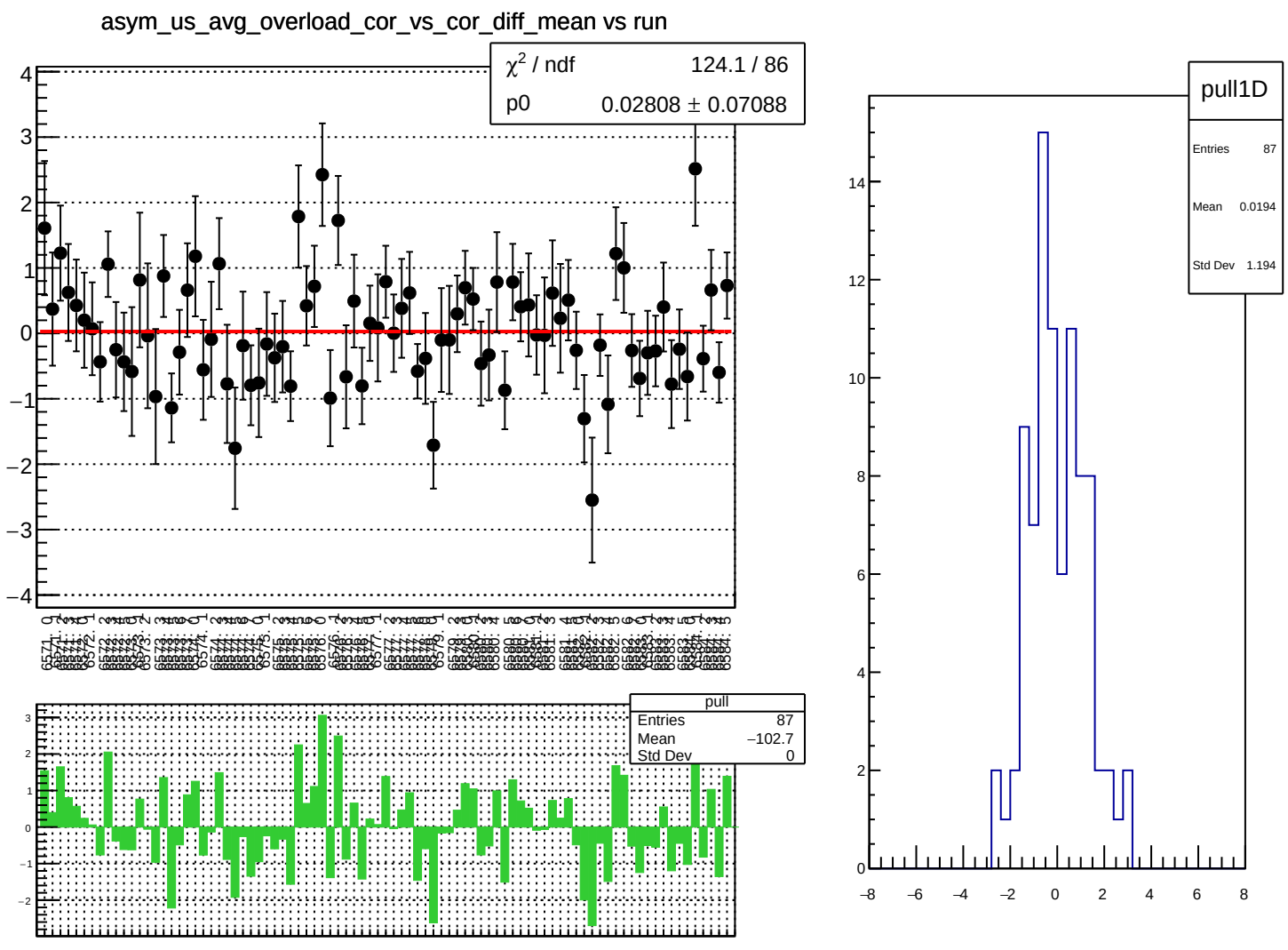

pull1D
Entries 87
Mean 0.03108
Std Dev 1.1

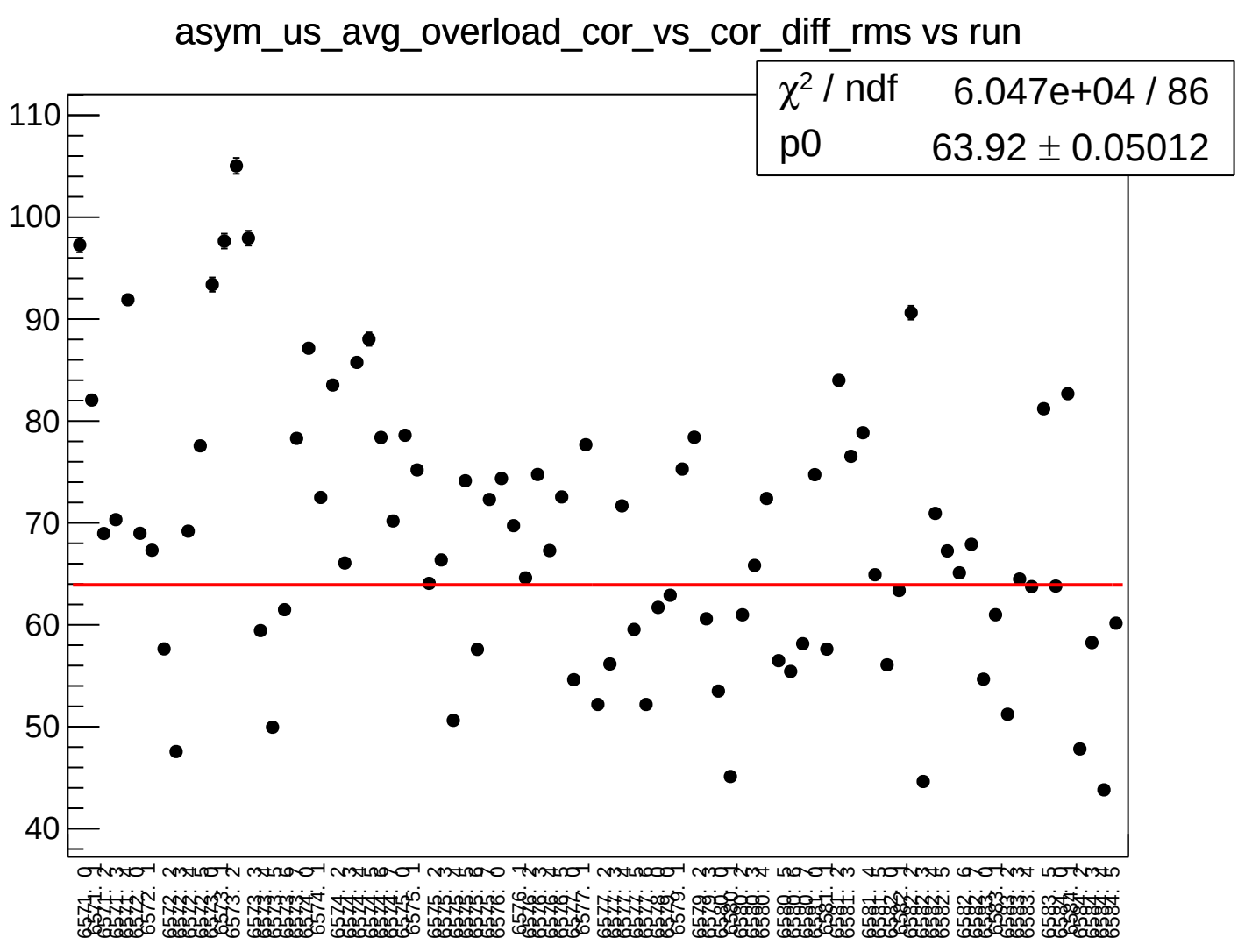

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.049e+04 / 86
p0 117 ± 0.09231
240
220
200
180
160
140
120
100
80

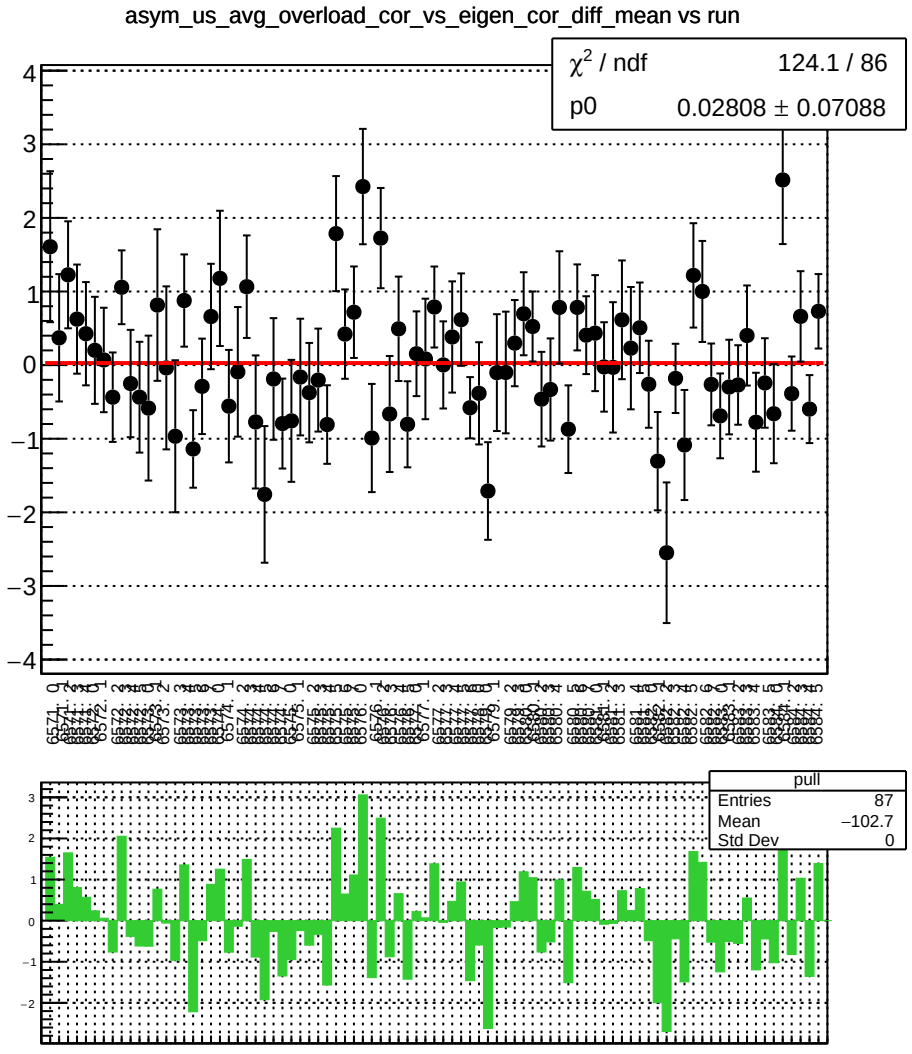

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.03 / 86
p0 −6.886e−15 ± 1.664e−14
pull
Entries 87
Mean 10.66
Std Dev 0

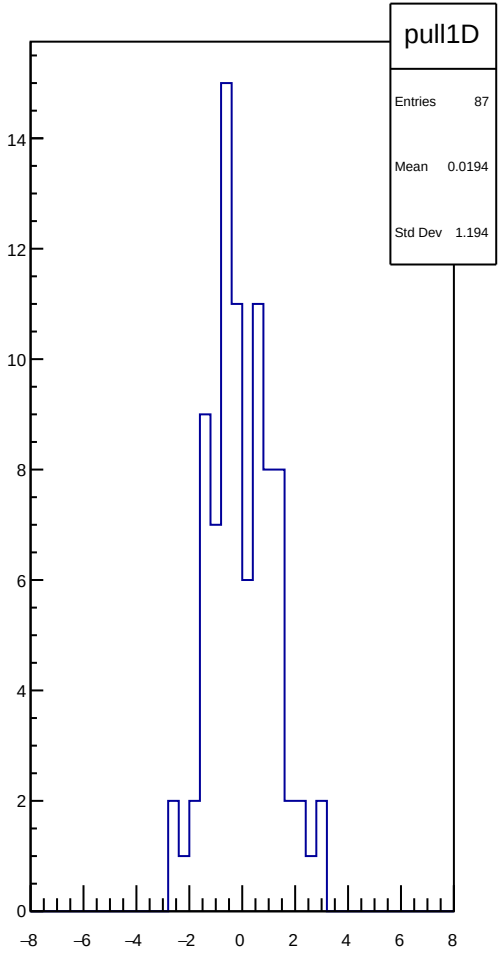

pull1D
Entries 87
Mean −0.07036
Std Dev 0.9505

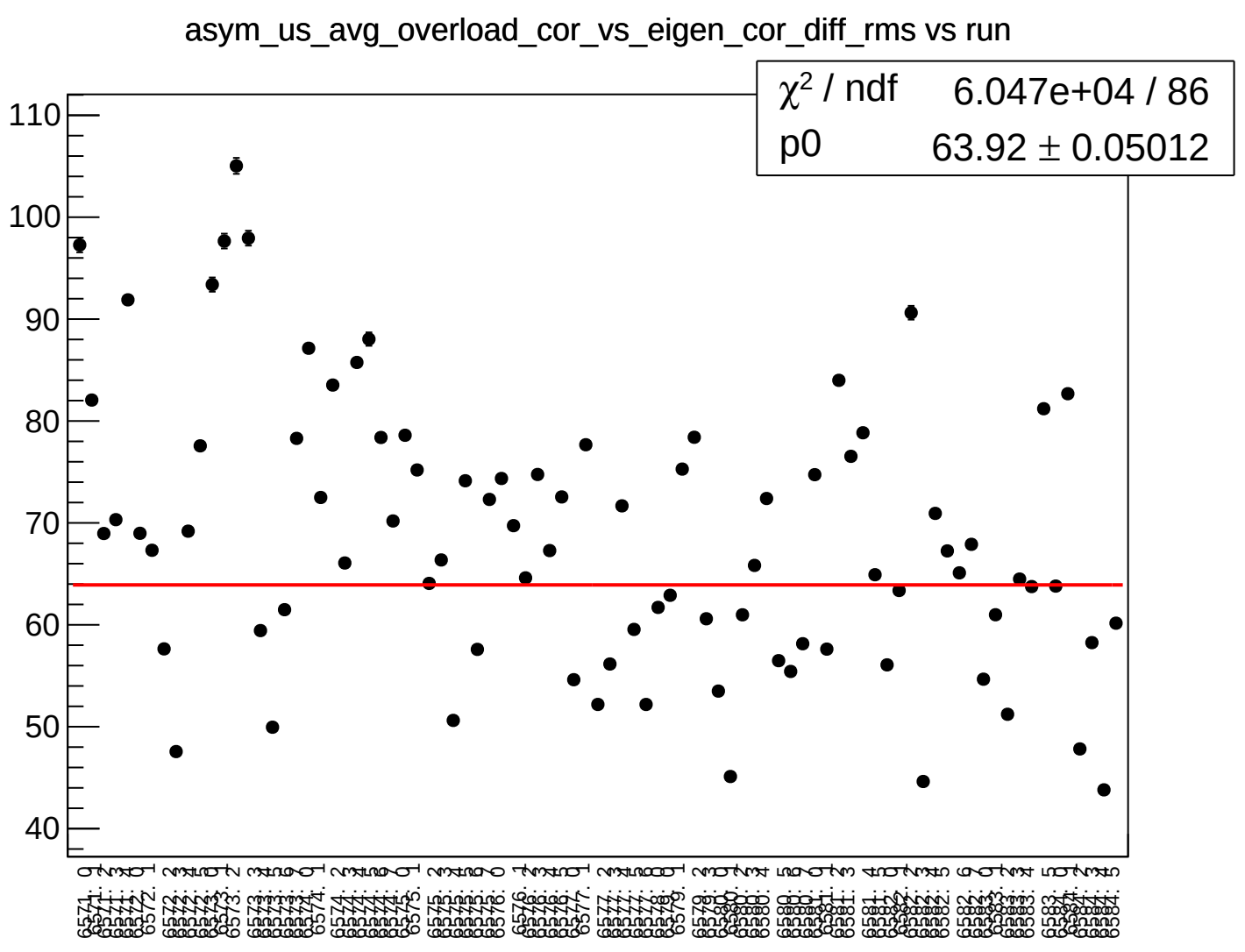

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.978e+05 / 86
p0 1.228e−11 ± 1.177e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

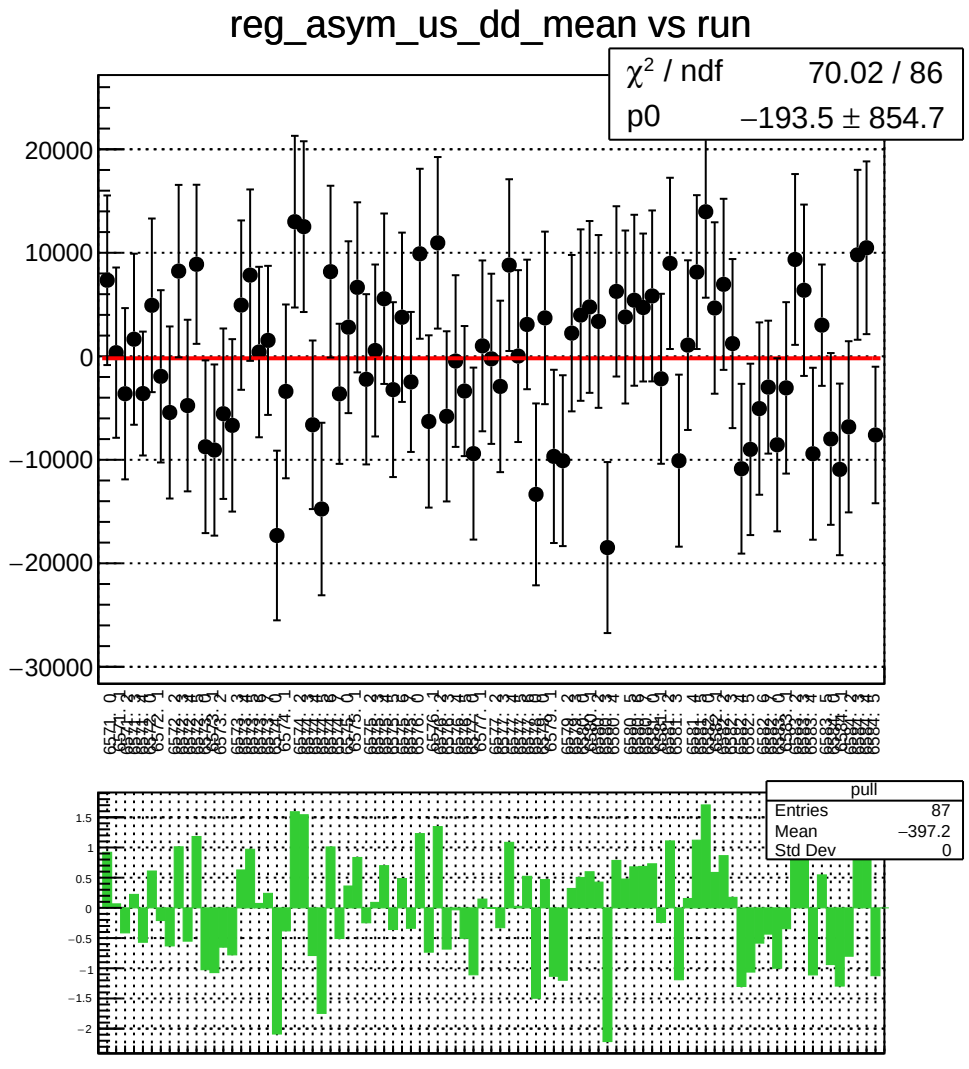

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 124.1 / 86
p0 0.02808 ± 0.07088
pull
Entries 87
Mean −102.7
Std Dev 0
pull1D
Entries 87
Mean 0.0194
Std Dev 1.194

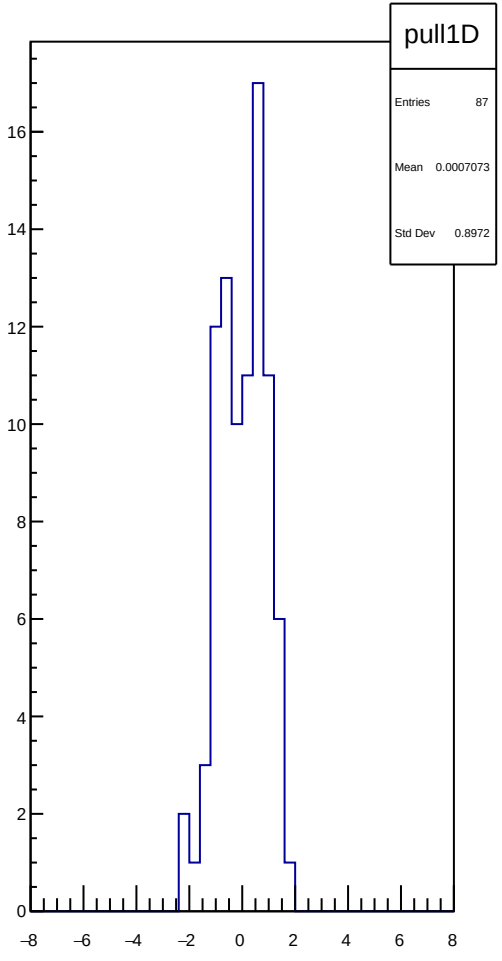

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 6.047e+04 / 86
p0 63.92 ± 0.05012
110
100
90
80
70
60
50
40

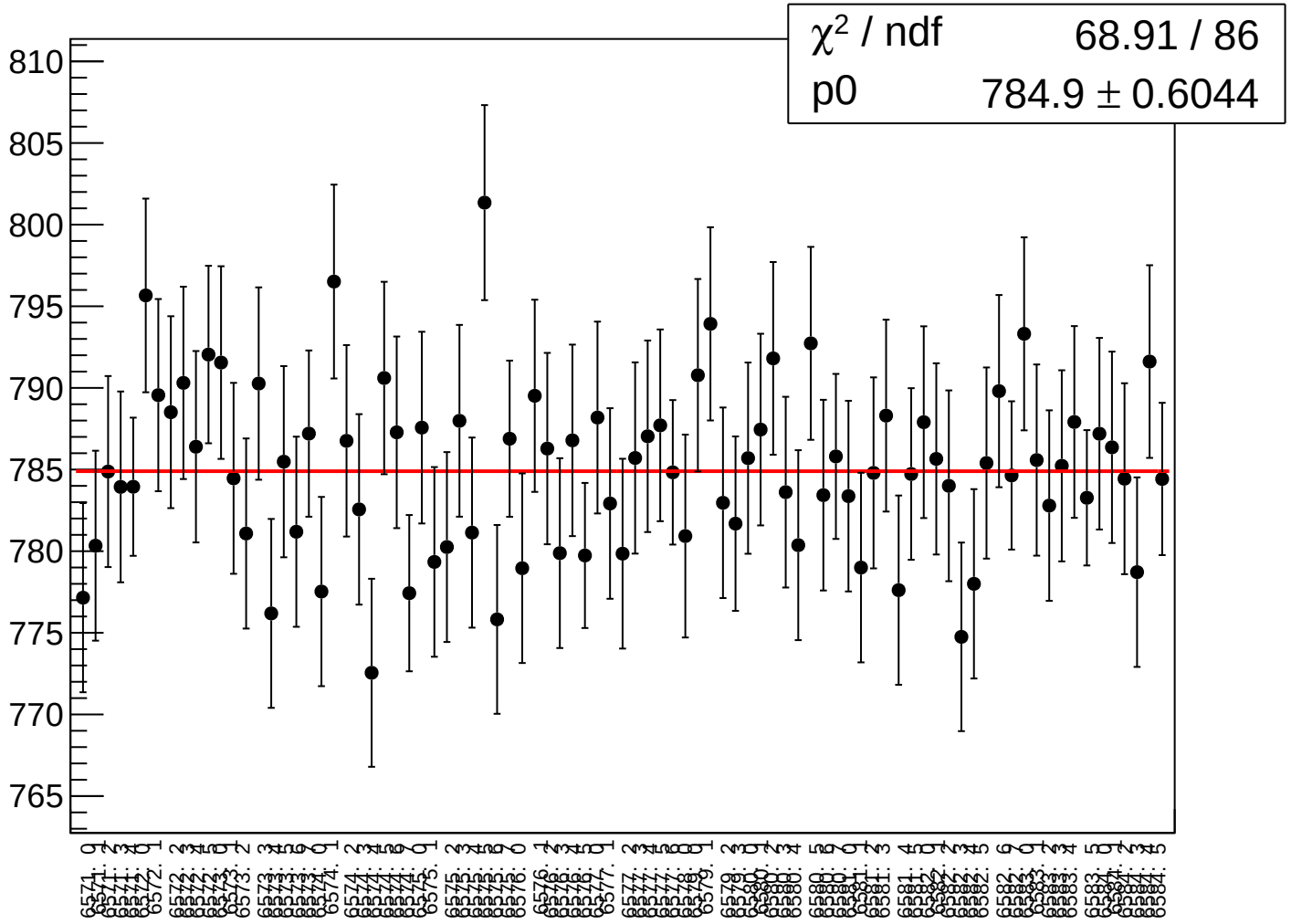

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.1 / 86
p0 0.02808 ± 0.07088
pull
Entries 87
Mean −102.7
Std Dev 0

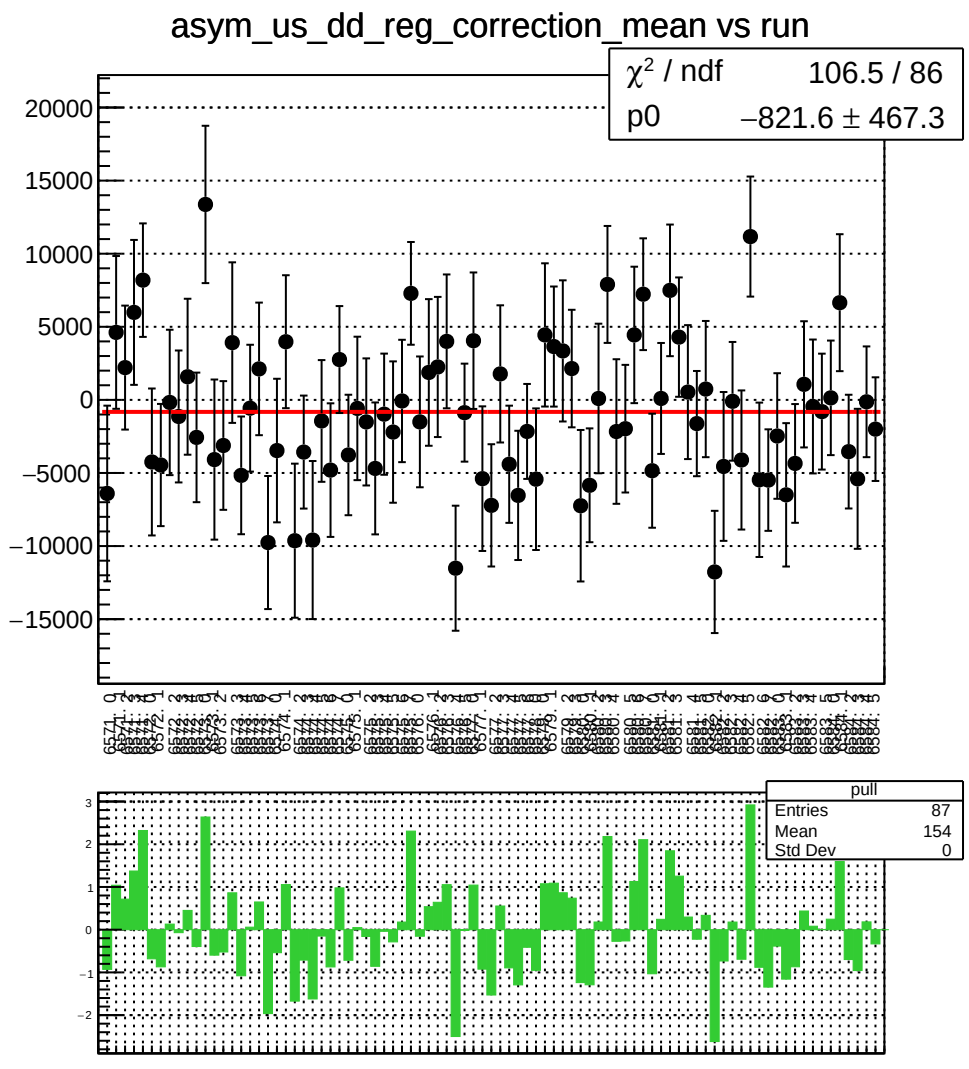

pull1D
Entries 87
Mean 0.0194
Std Dev 1.194

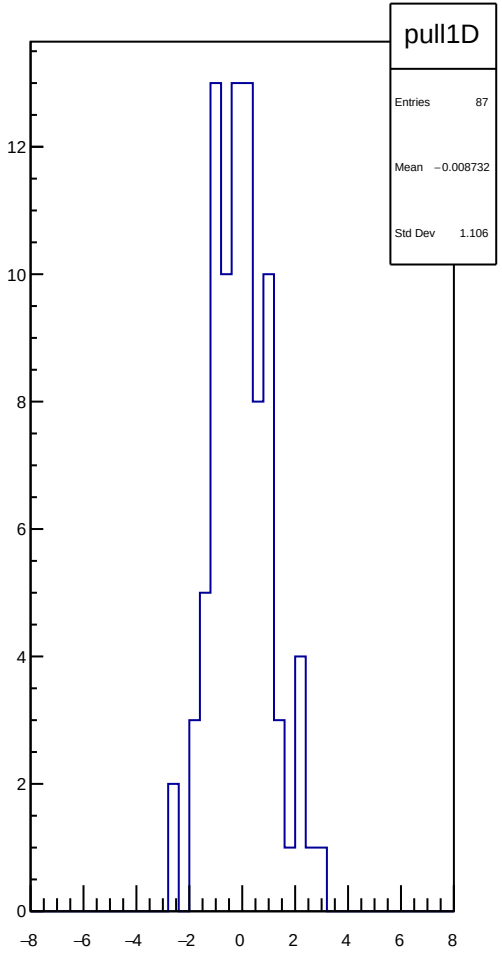

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.047e+04 / 86
p0 63.92 ± 0.05012
110
100
90
80
70
60
50
40

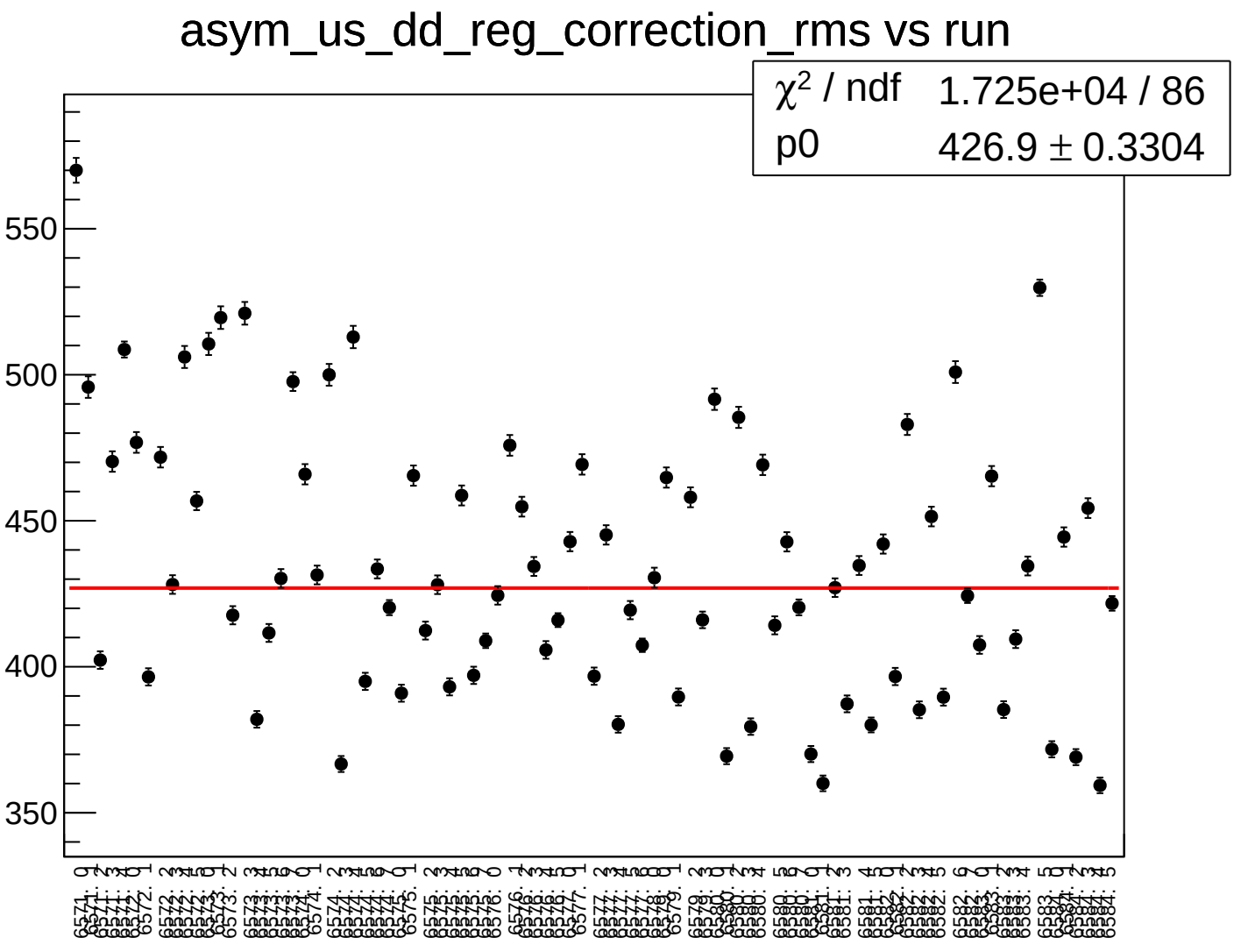

reg_asym_us_dd_mean vs run
χ² / ndf 70.02 / 86
p0 −193.5 ± 854.7
pull
Entries 87
Mean −397.2
Std Dev 0

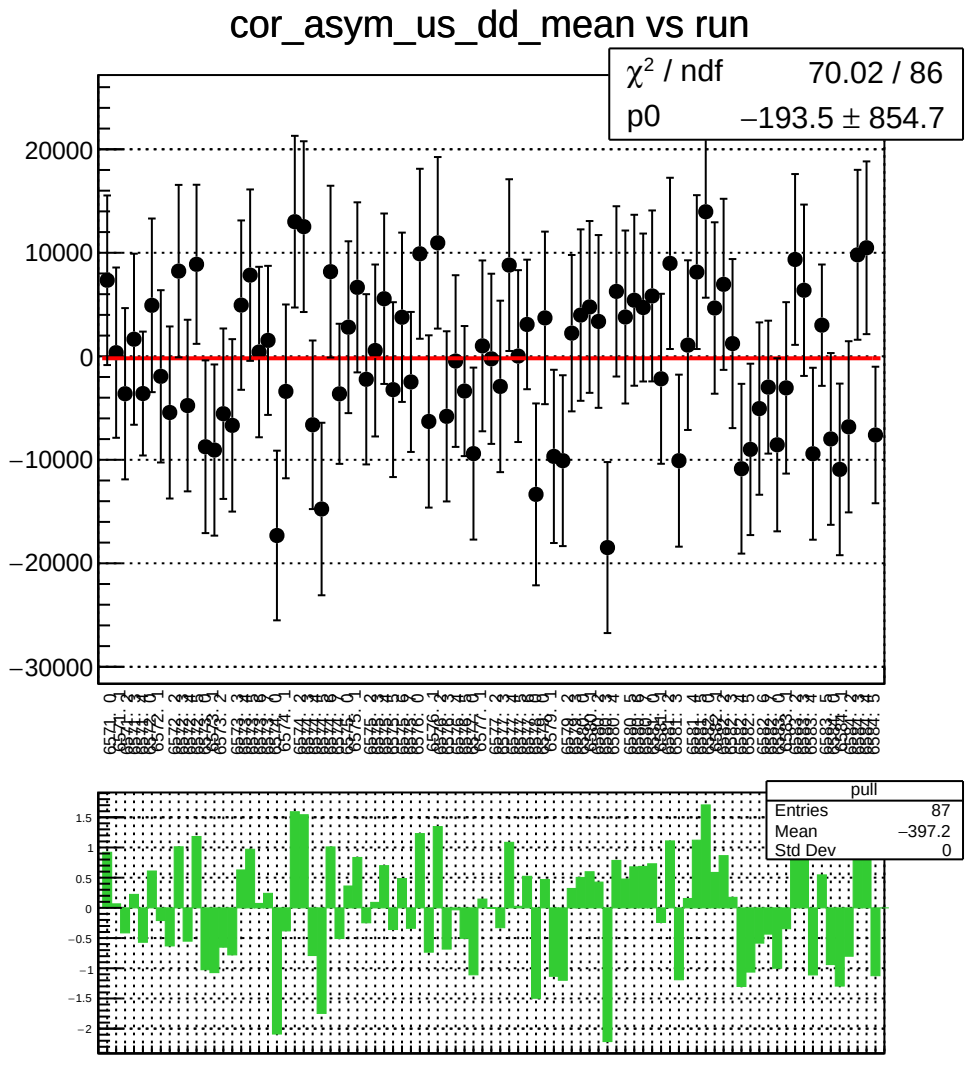

pull1D
Entries 87
Mean 0.0007073
Std Dev 0.8972

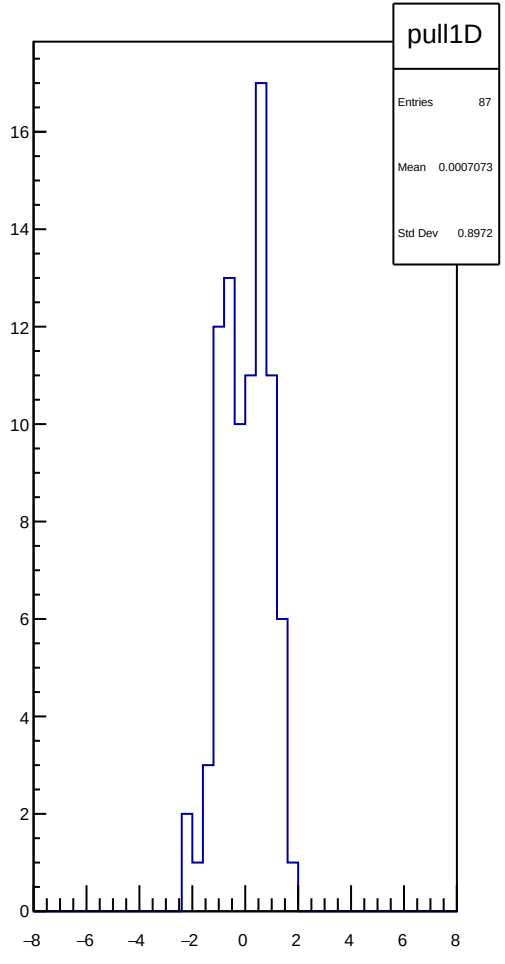

reg_asym_us_dd_rms vs run
χ² / ndf 68.91 / 86
p0 784.9 ± 0.6044
810
805
800
795
790
785
780
775
770
765

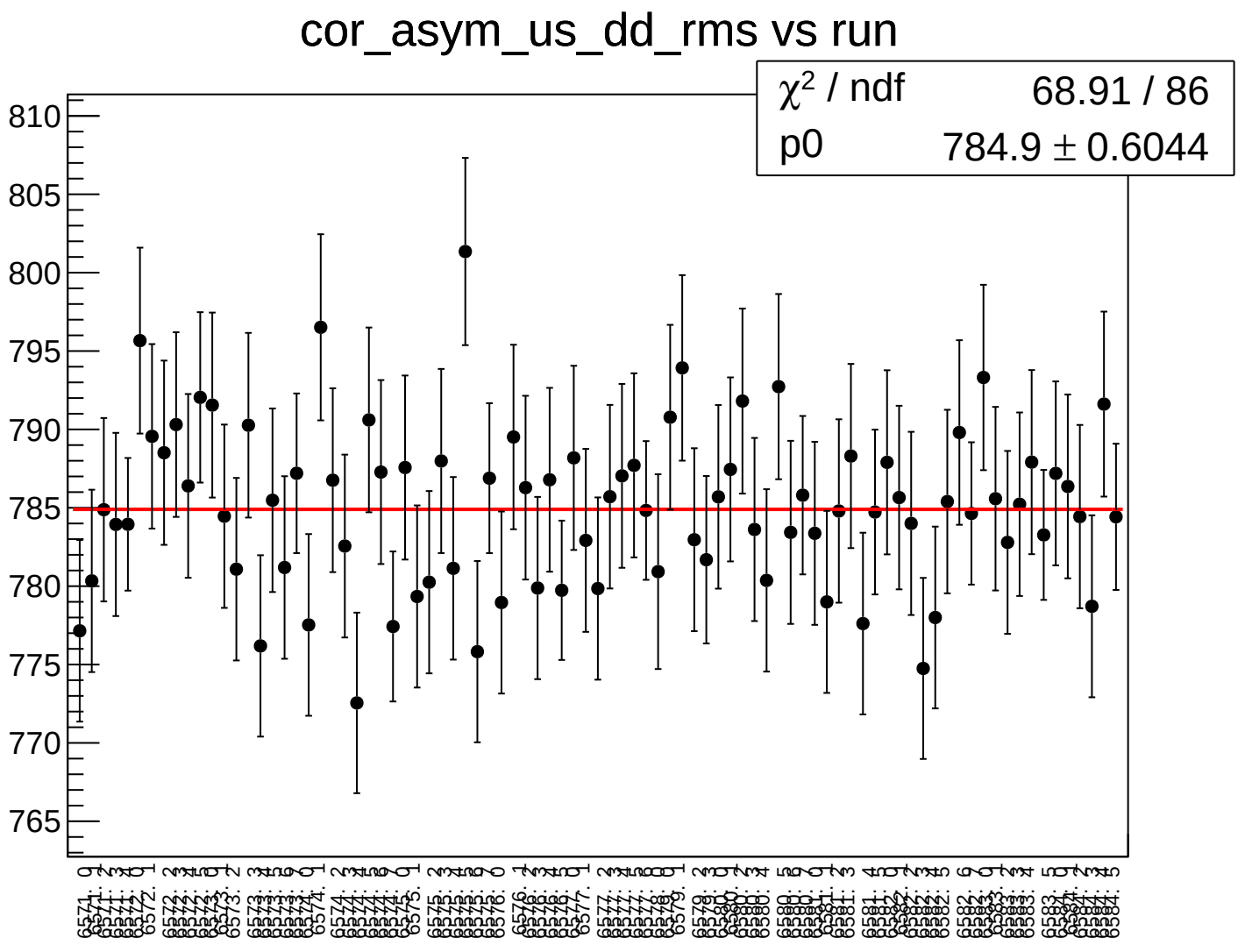

asym_us_dd_reg_correction_mean vs run
χ² / ndf 106.5 / 86
p0 −821.6 ± 467.3
pull
Entries 87
Mean 154
Std Dev 0

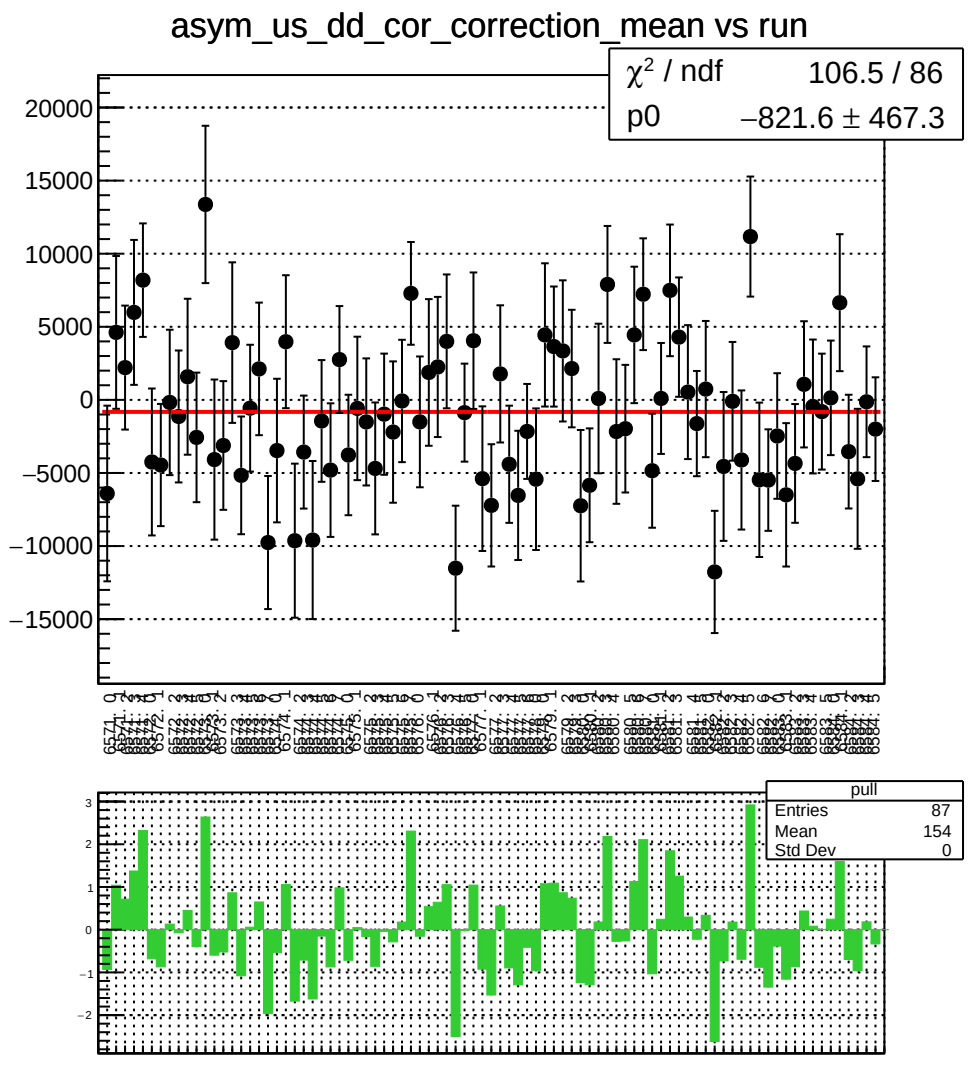

pull1D
Entries 87
Mean −0.008732
Std Dev 1.106

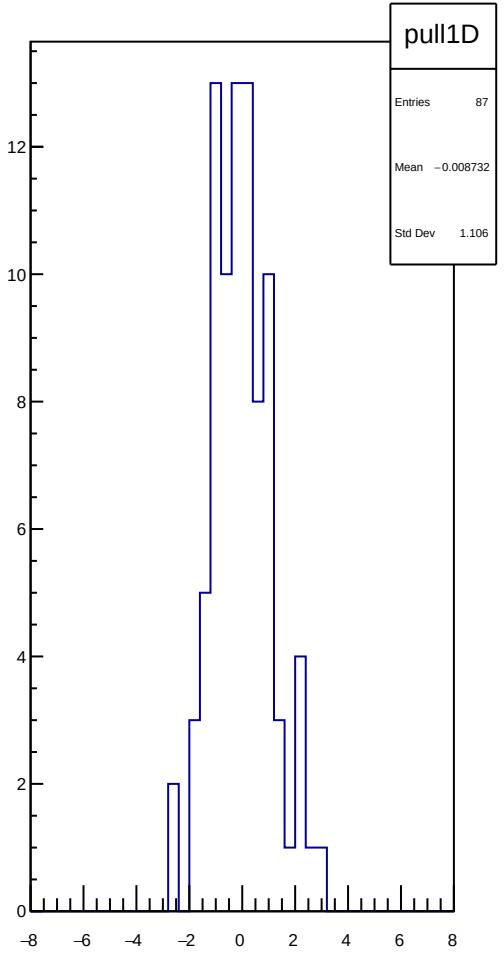

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.725e+04 / 86
p0 426.9 ± 0.3304
550
500
450
400
350

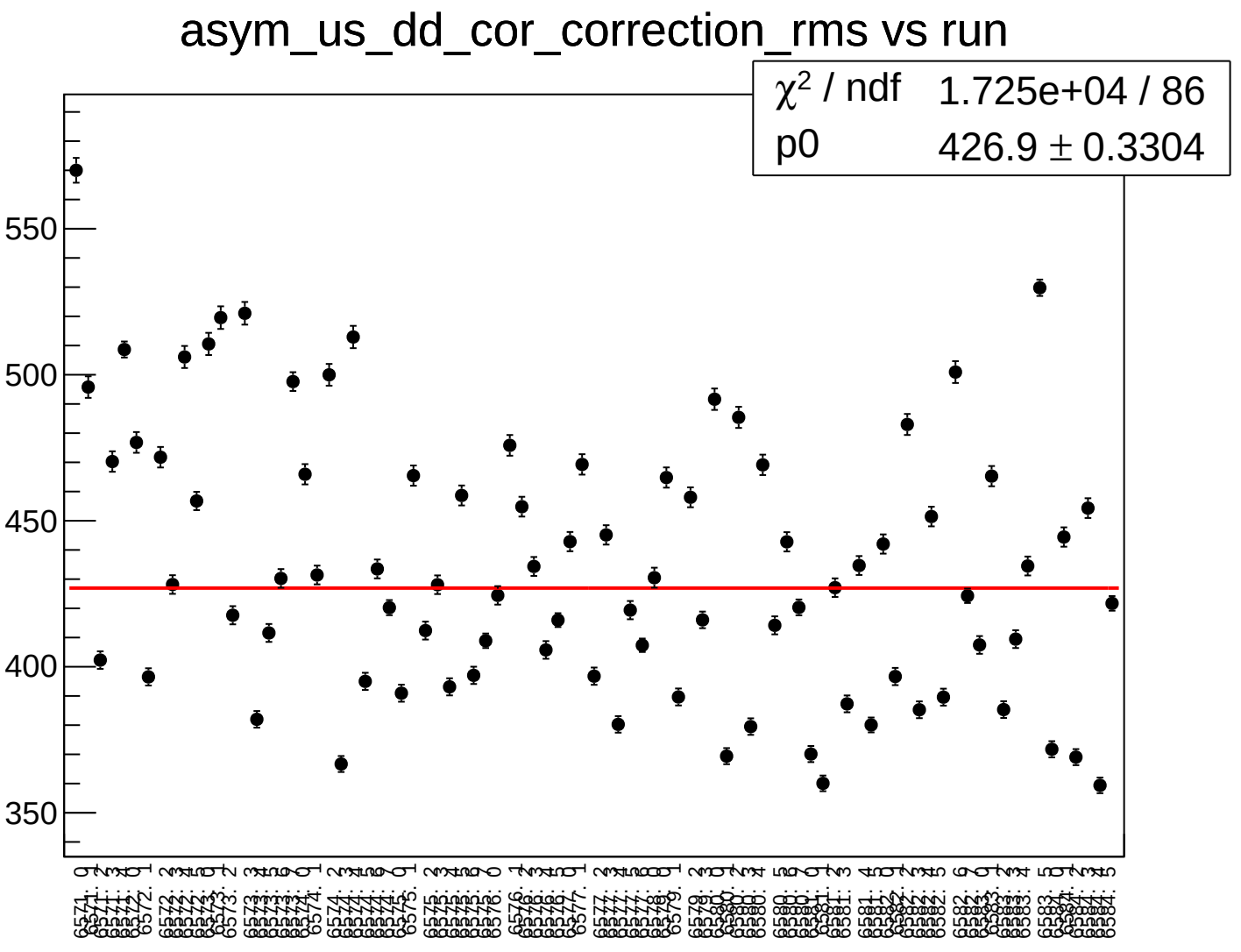

cor_asym_us_dd_mean vs run
χ² / ndf 70.02 / 86
p0 −193.5 ± 854.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −397.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

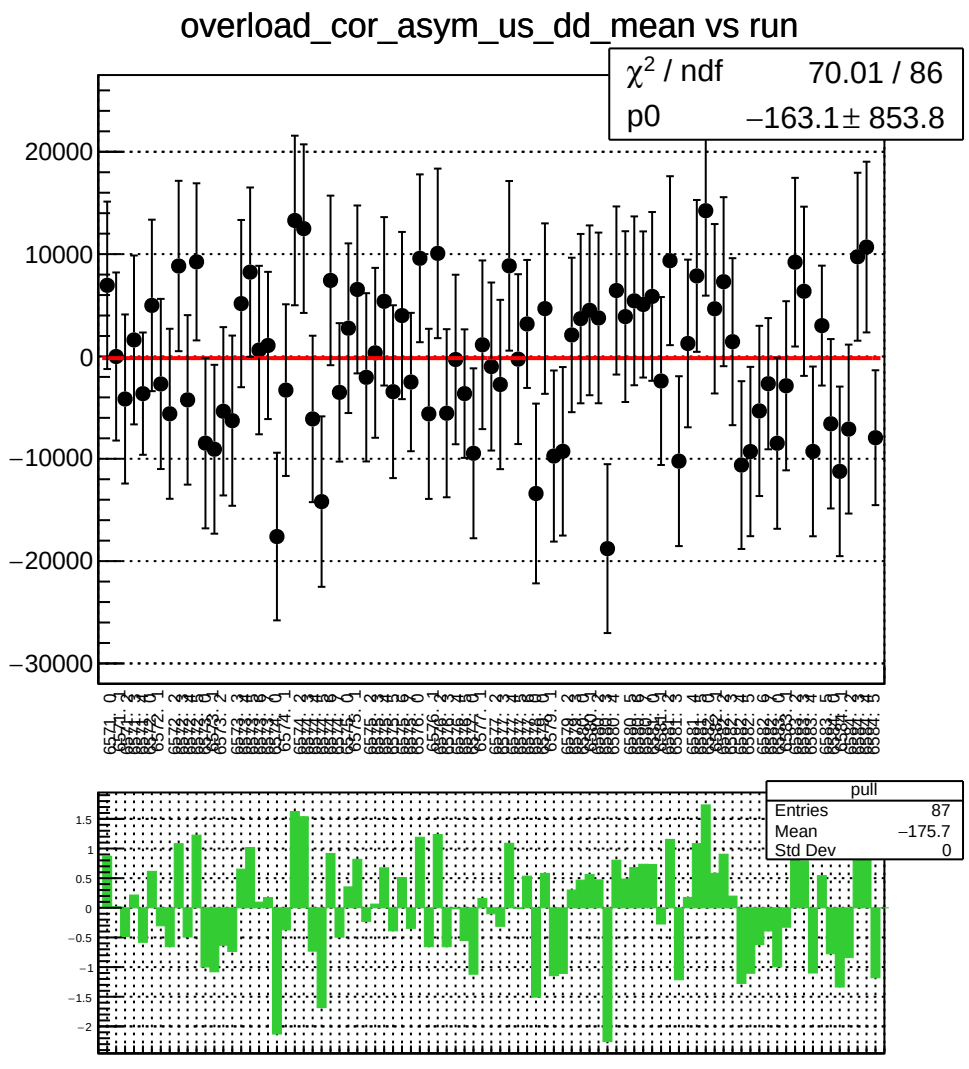

pull1D
Entries 87
Mean 0.0007073
Std Dev 0.8972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

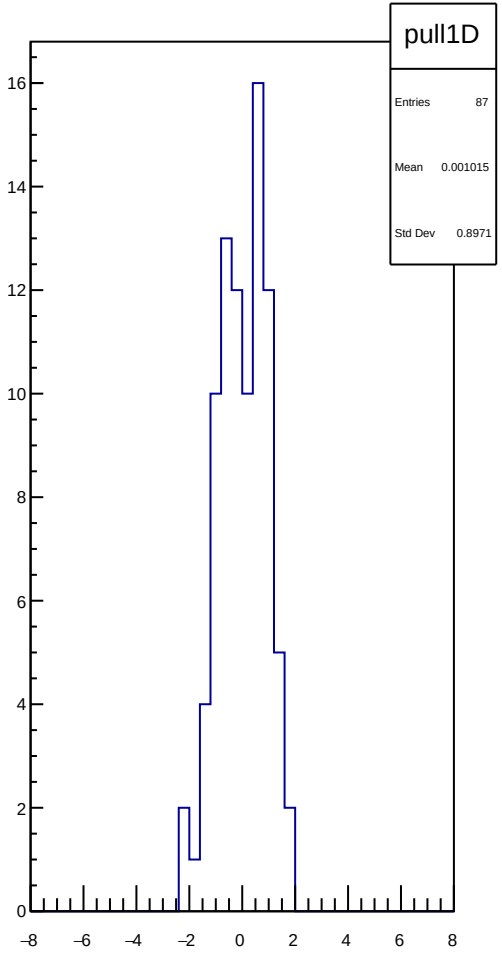

cor_asym_us_dd_rms vs run
χ² / ndf 68.91 / 86
p0 784.9 ± 0.6044
810
805
800
795
790
785
780
775
770
765

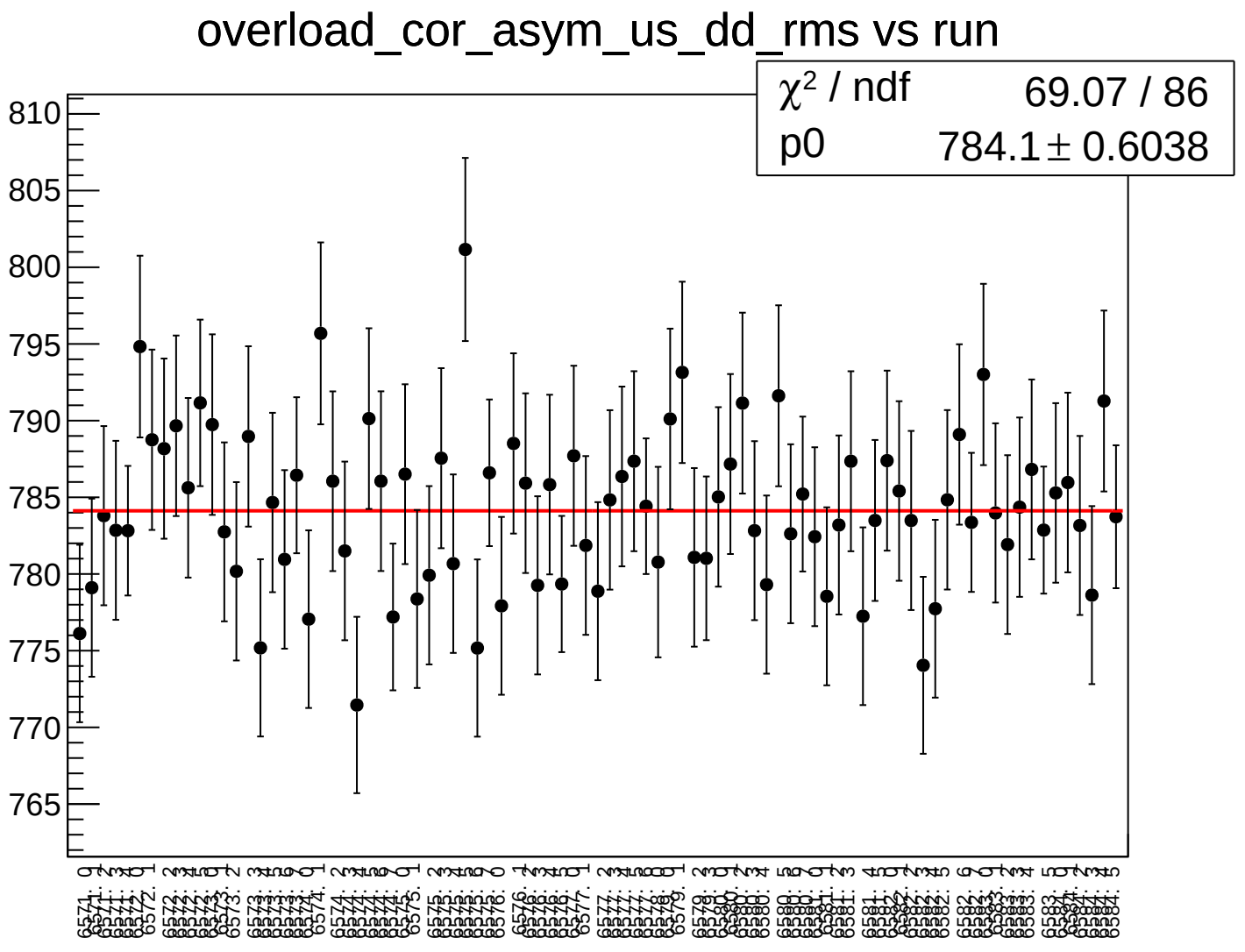

asym_us_dd_cor_correction_mean vs run
χ² / ndf 106.5 / 86
p0 −821.6 ± 467.3
pull
Entries 87
Mean 154
Std Dev 0

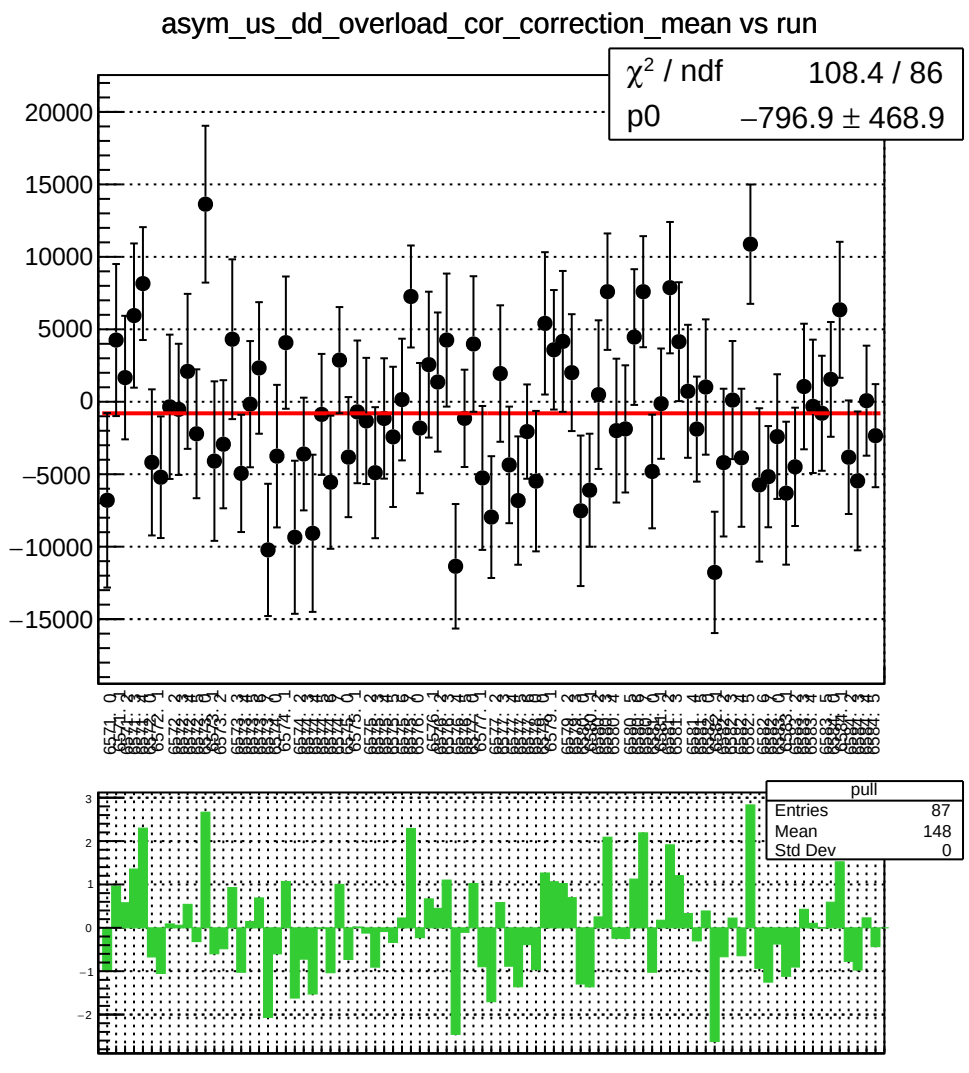

pull1D
Entries 87
Mean −0.008732
Std Dev 1.106

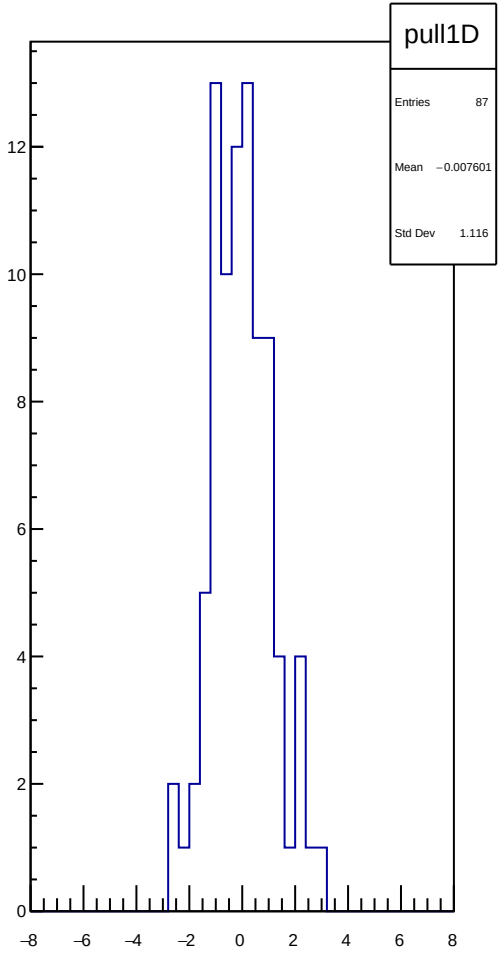

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.725e+04 / 86
p0 426.9 ± 0.3304
550
500
450
400
350

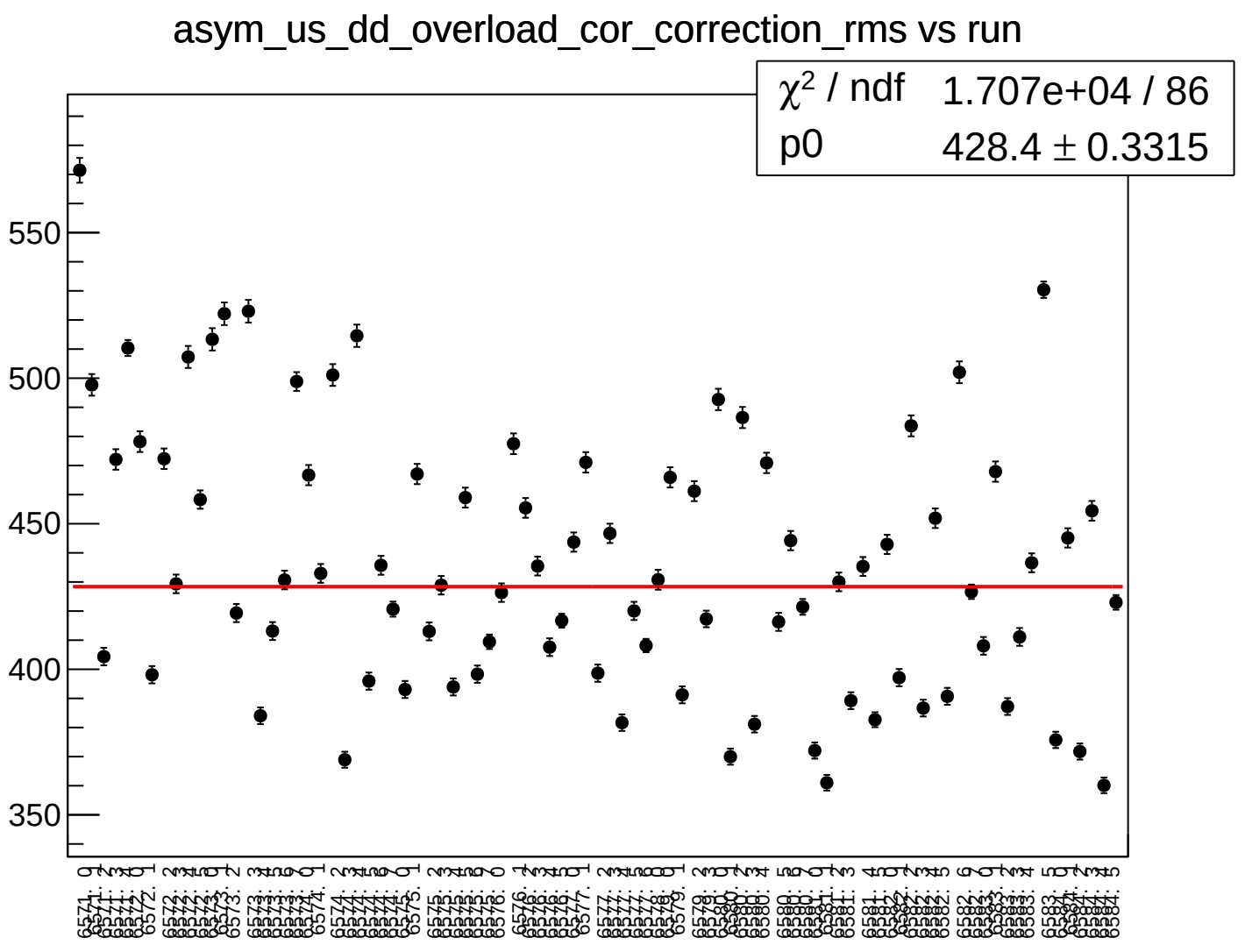

overload_cor_asym_us_dd_mean vs run
χ² / ndf 70.01 / 86
p0 −163.1± 853.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −175.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

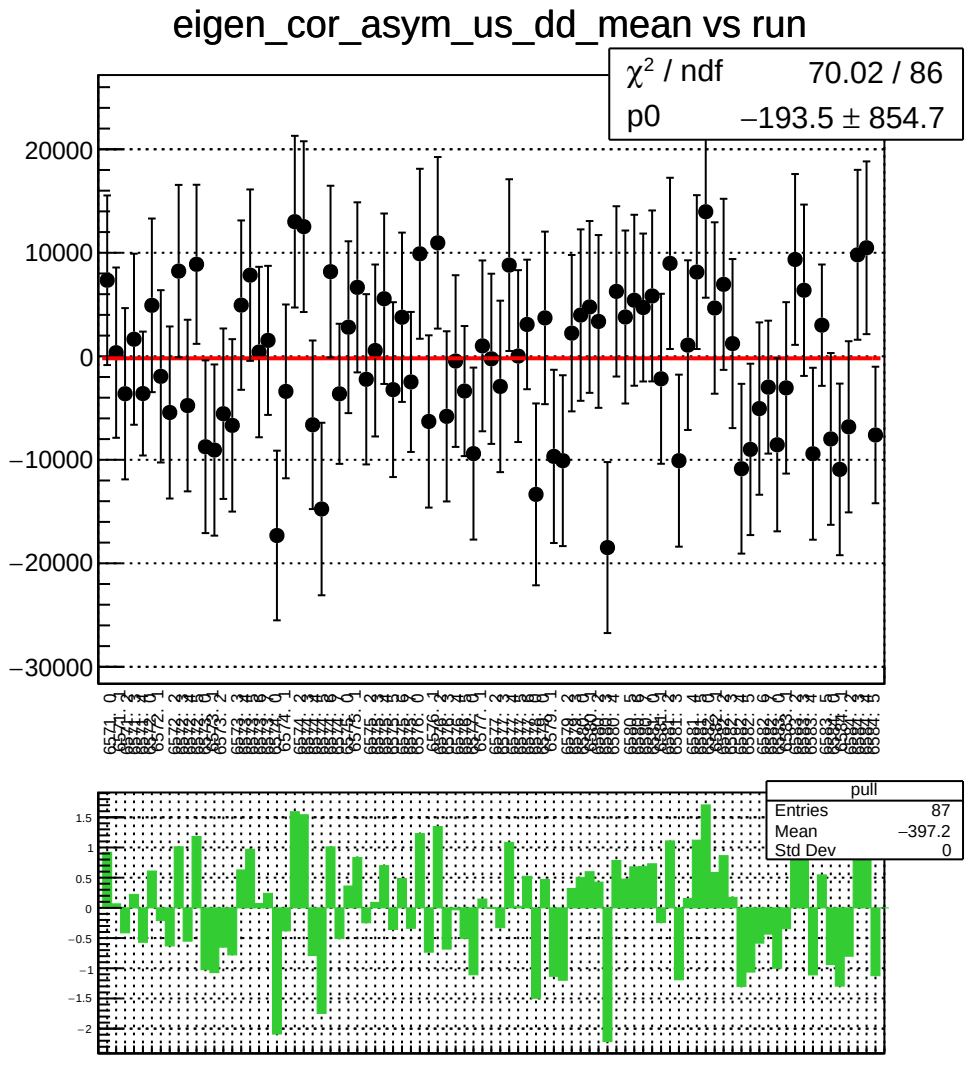

pull1D
Entries 87
Mean 0.001015
Std Dev 0.8971
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

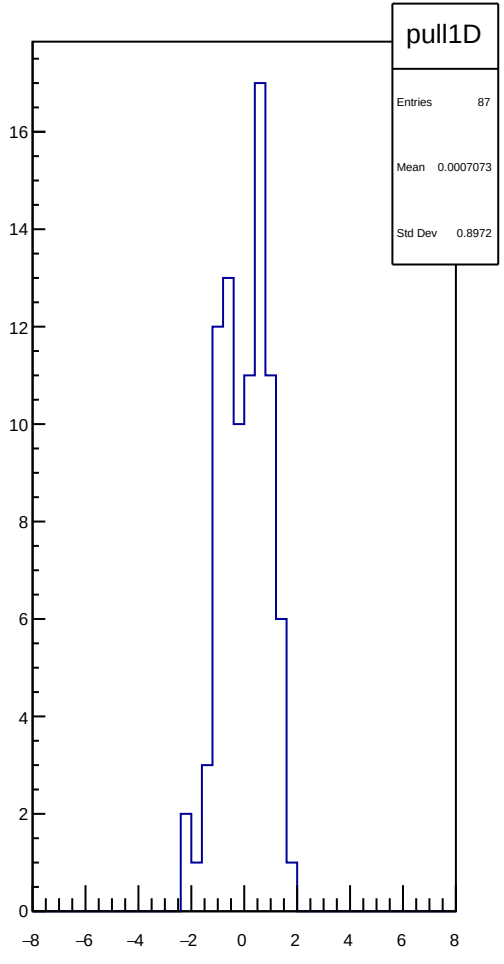

overload_cor_asym_us_dd_rms vs run
χ² / ndf 69.07 / 86
p0 784.1 ± 0.6038
810
805
800
795
790
785
780
775
770
765

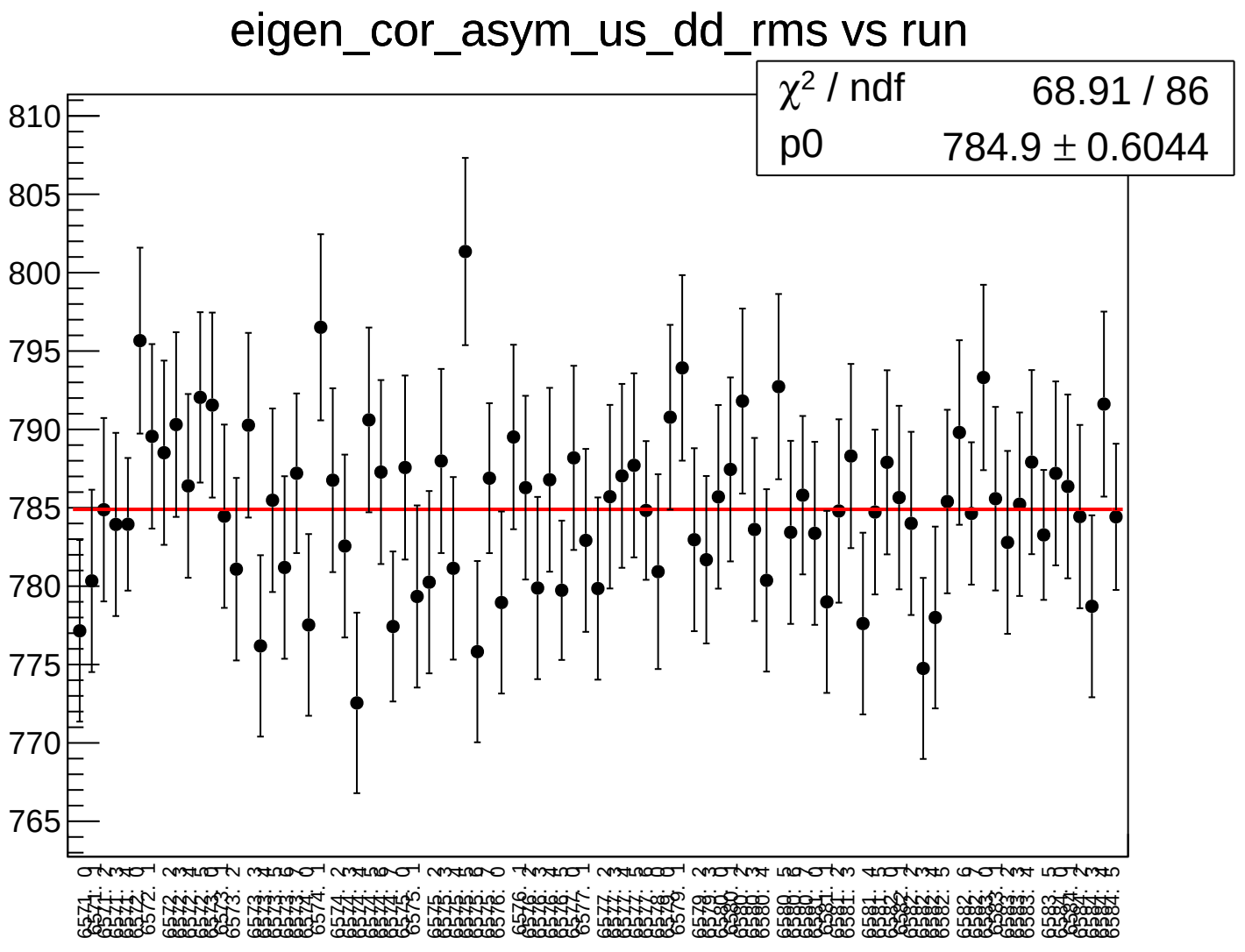

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 108.4 / 86
p0 −796.9 ± 468.9
pull
Entries 87
Mean 148
Std Dev 0

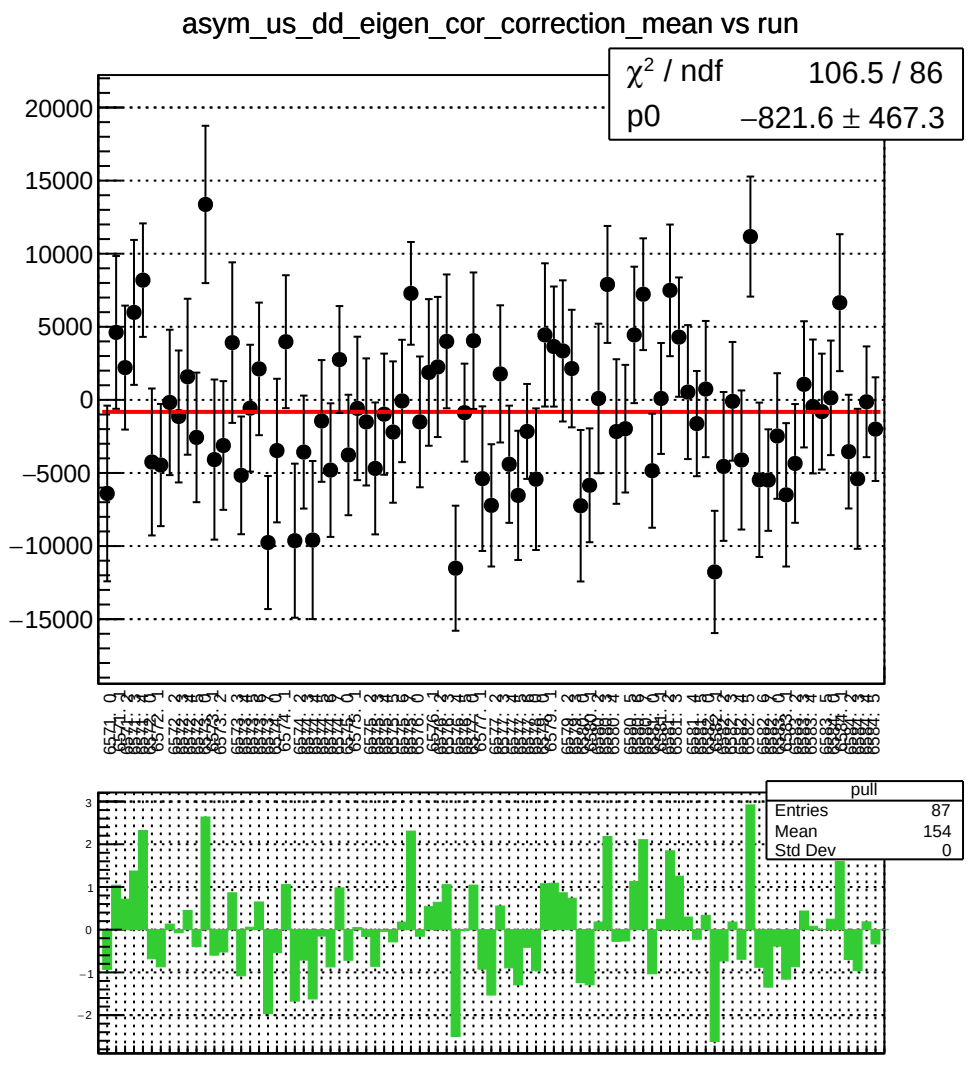

pull1D
Entries 87
Mean −0.007601
Std Dev 1.116

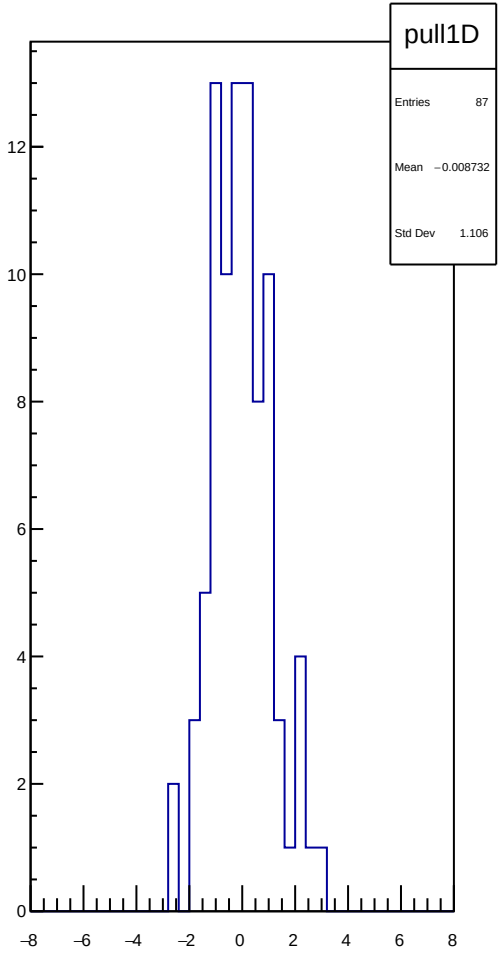

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.707e+04 / 86
p0 428.4 ± 0.3315
550
500
450
400
350

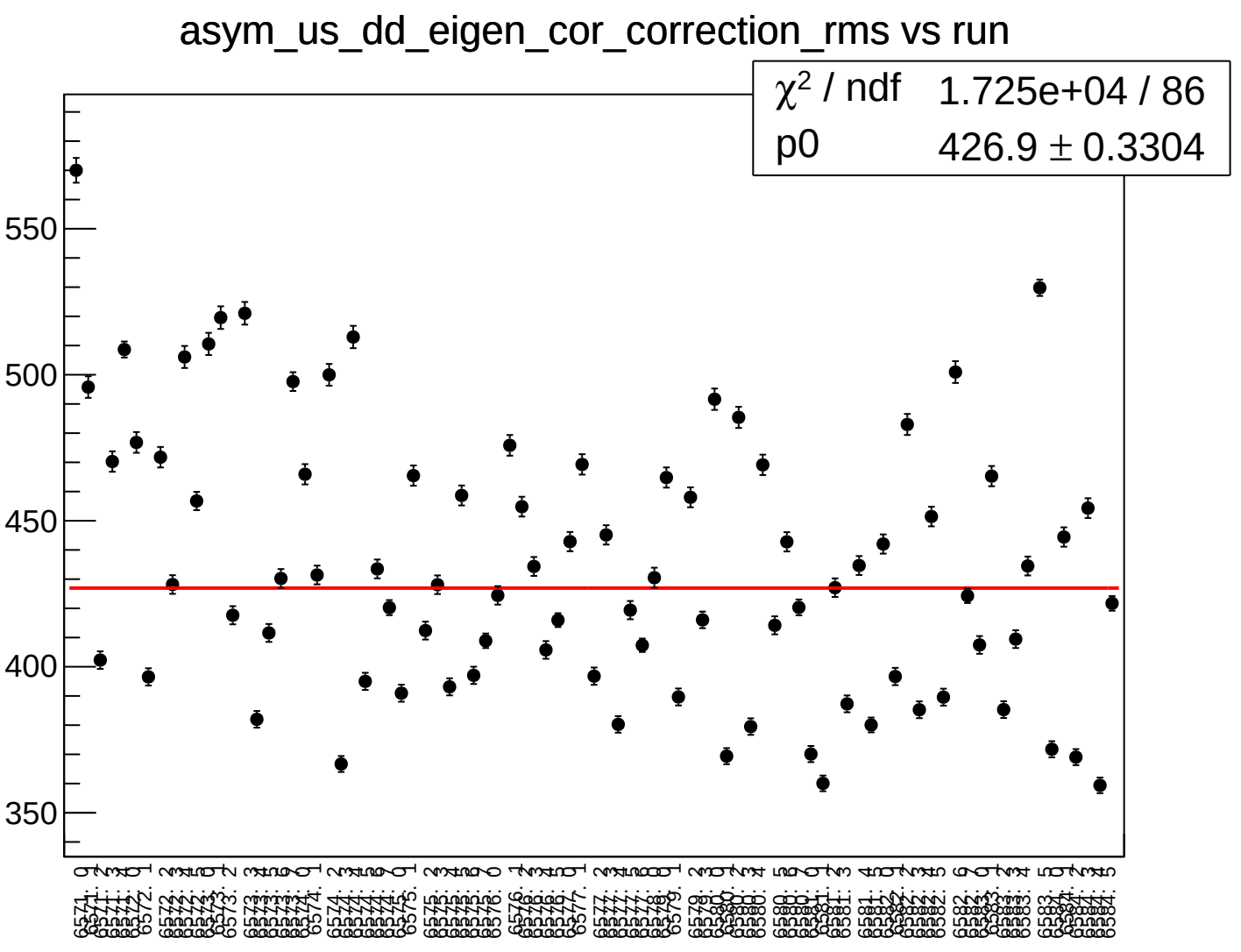

eigen_cor_asym_us_dd_mean vs run
χ^2 / ndf 70.02 / 86
p0 −193.5 ± 854.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −397.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

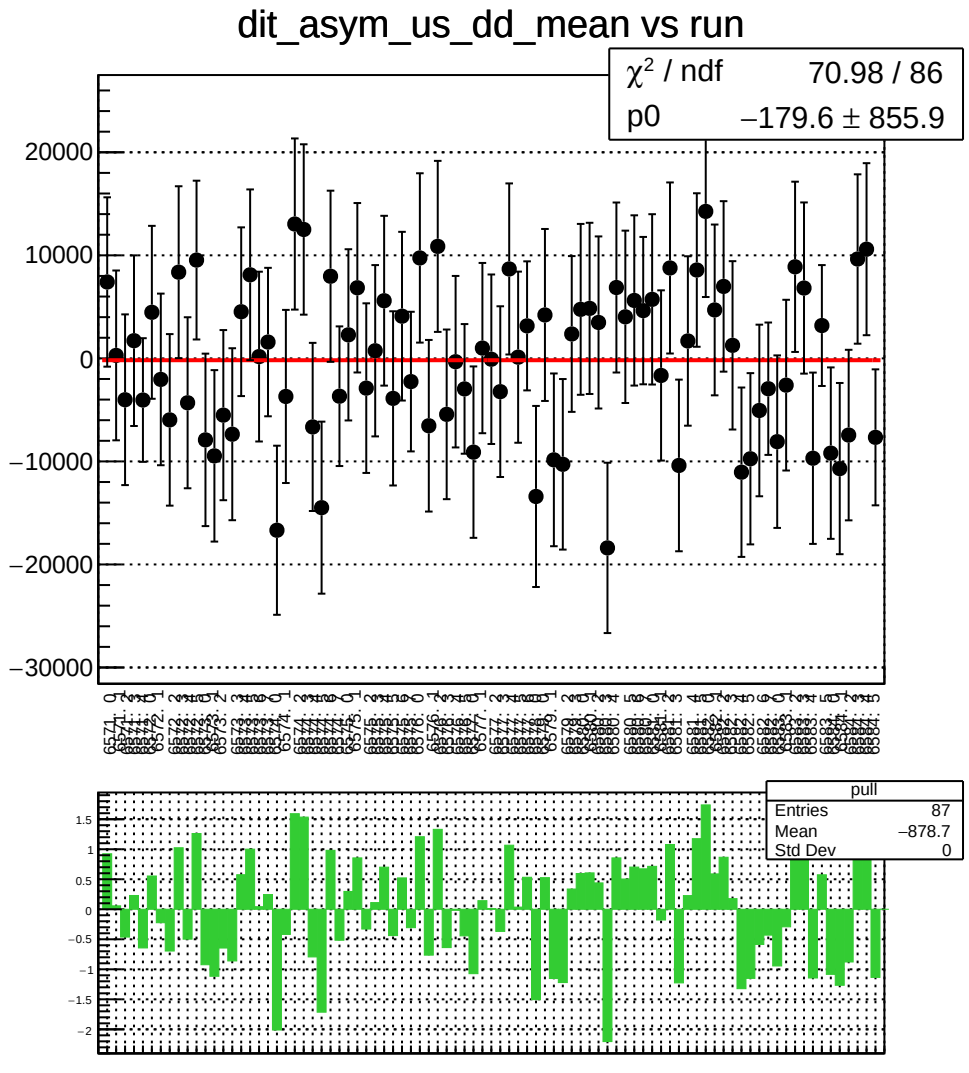

pull1D
Entries 87
Mean 0.0007073
Std Dev 0.8972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

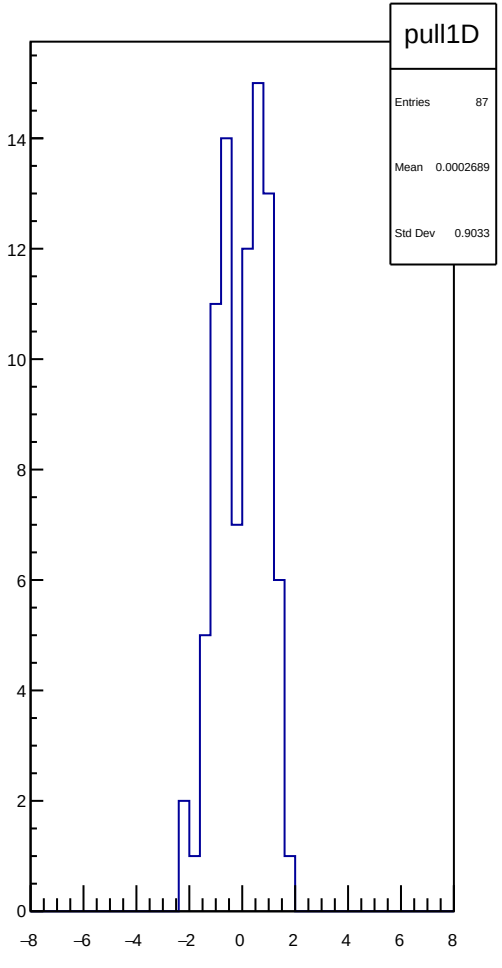

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 68.91 / 86
p0 784.9 ± 0.6044
810
805
800
795
790
785
780
775
770
765

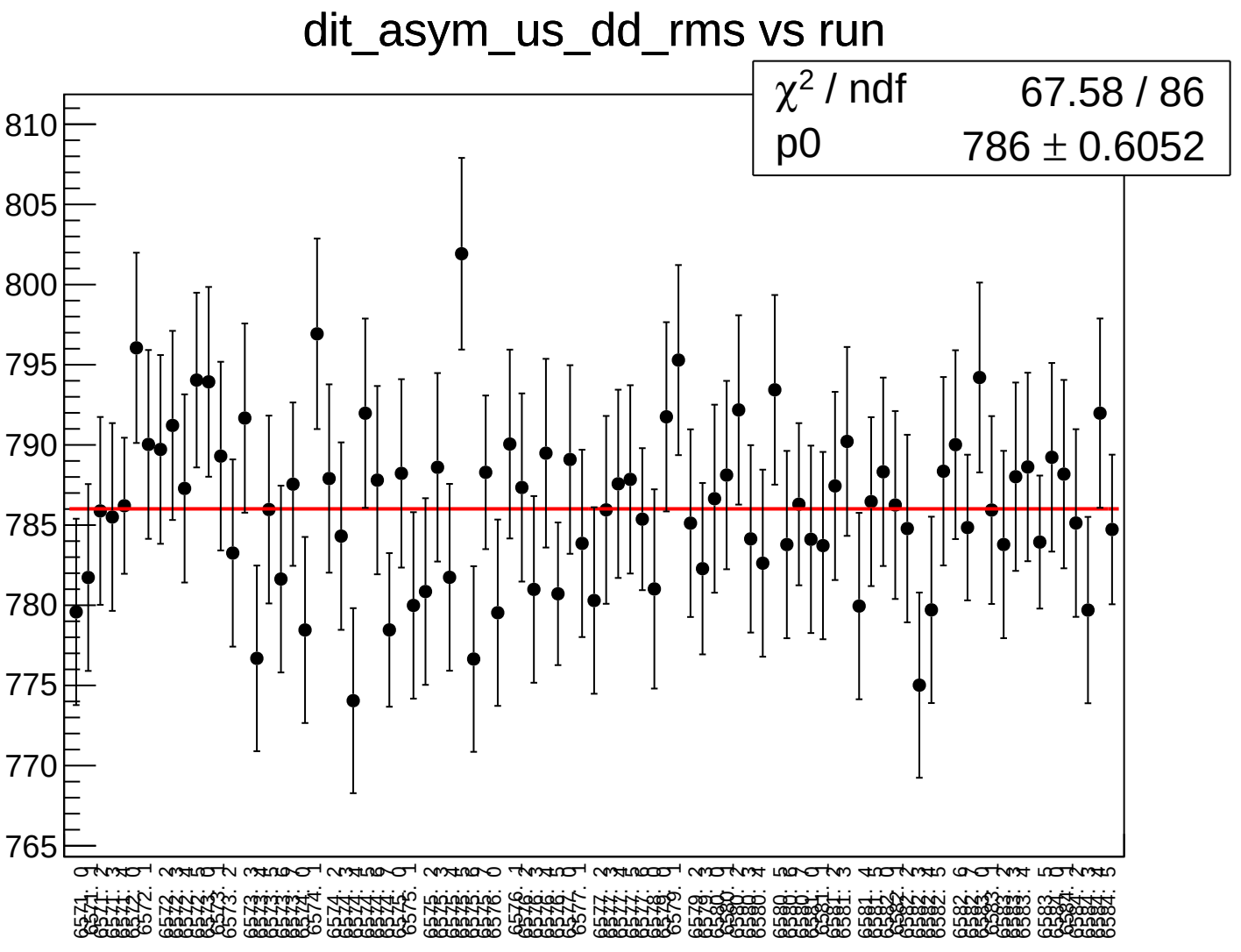

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 106.5 / 86
p0 −821.6 ± 467.3
pull
Entries 87
Mean 154
Std Dev 0

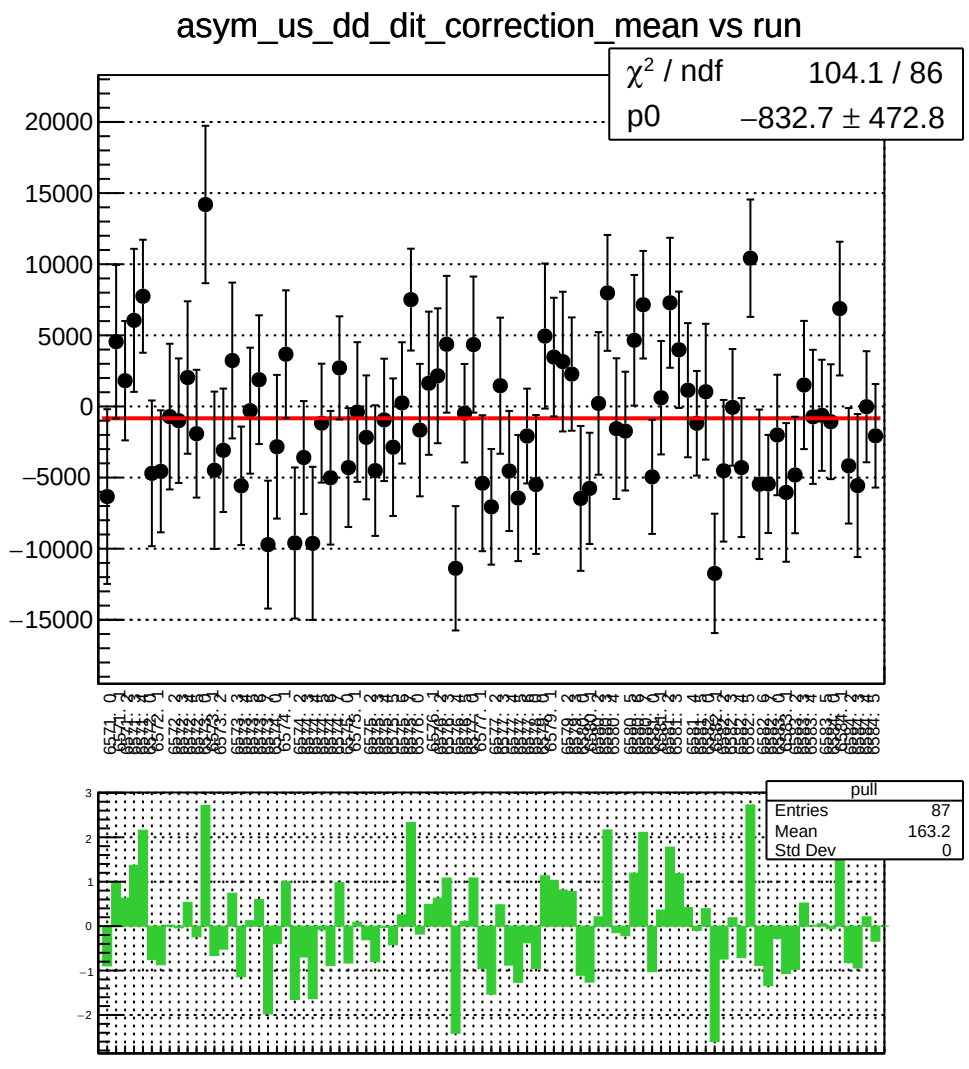

pull1D
Entries 87
Mean −0.008732
Std Dev 1.106

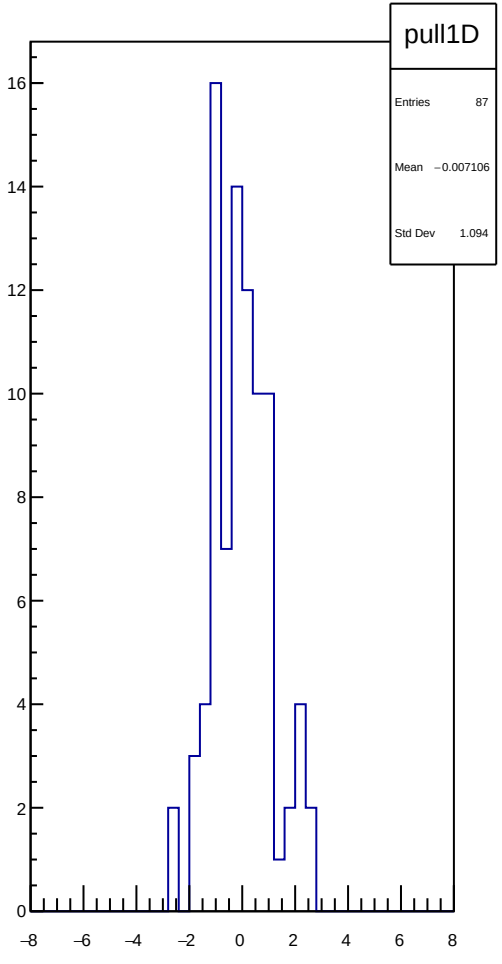

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.725e+04 / 86
p0 426.9 ± 0.3304
550
500
450
400
350

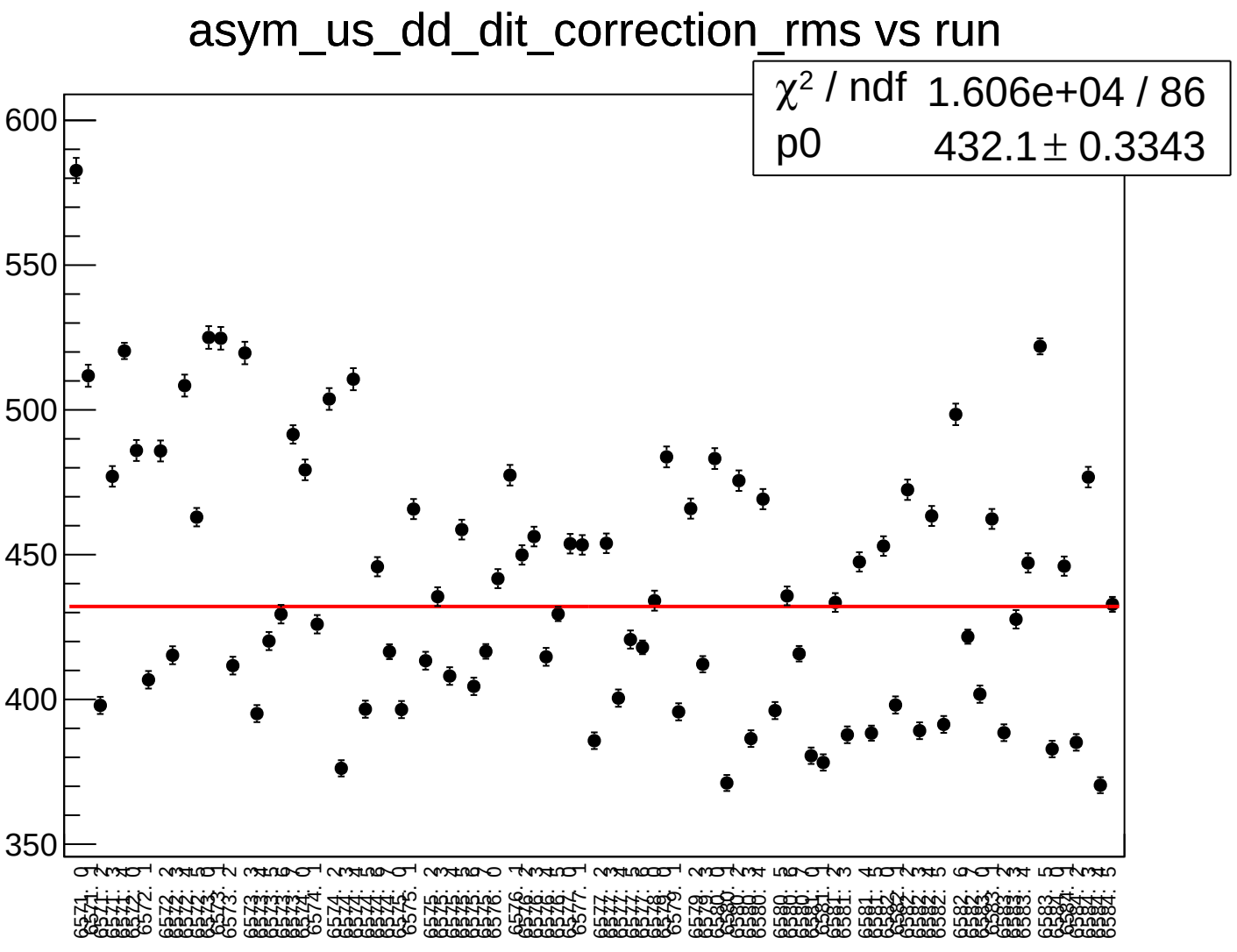

dit_asym_us_dd_mean vs run
χ² / ndf 70.98 / 86
p0 −179.6 ± 855.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −878.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

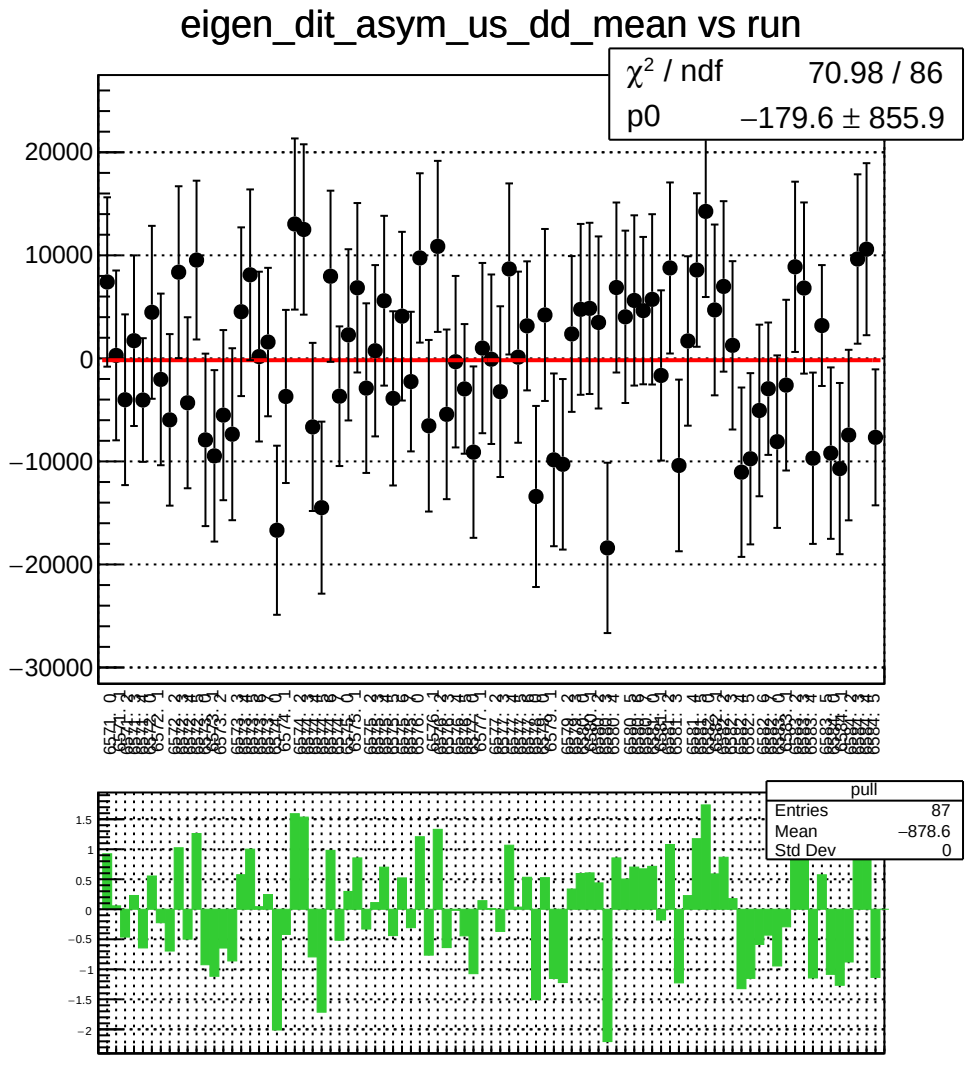

pull1D
Entries 87
Mean 0.0002689
Std Dev 0.9033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

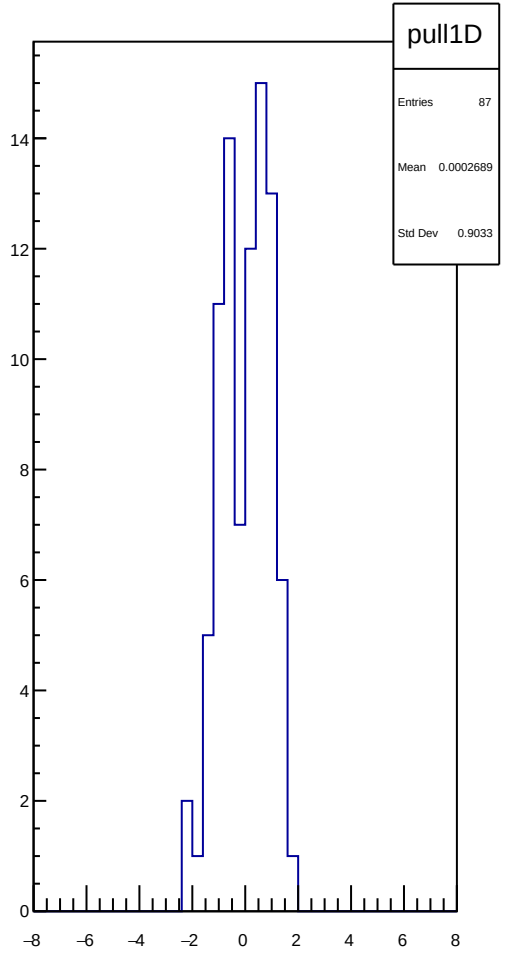

dit_asym_us_dd_rms vs run
χ² / ndf 67.58 / 86
p0 786 ± 0.6052
810
805
800
795
790
785
780
775
770
765

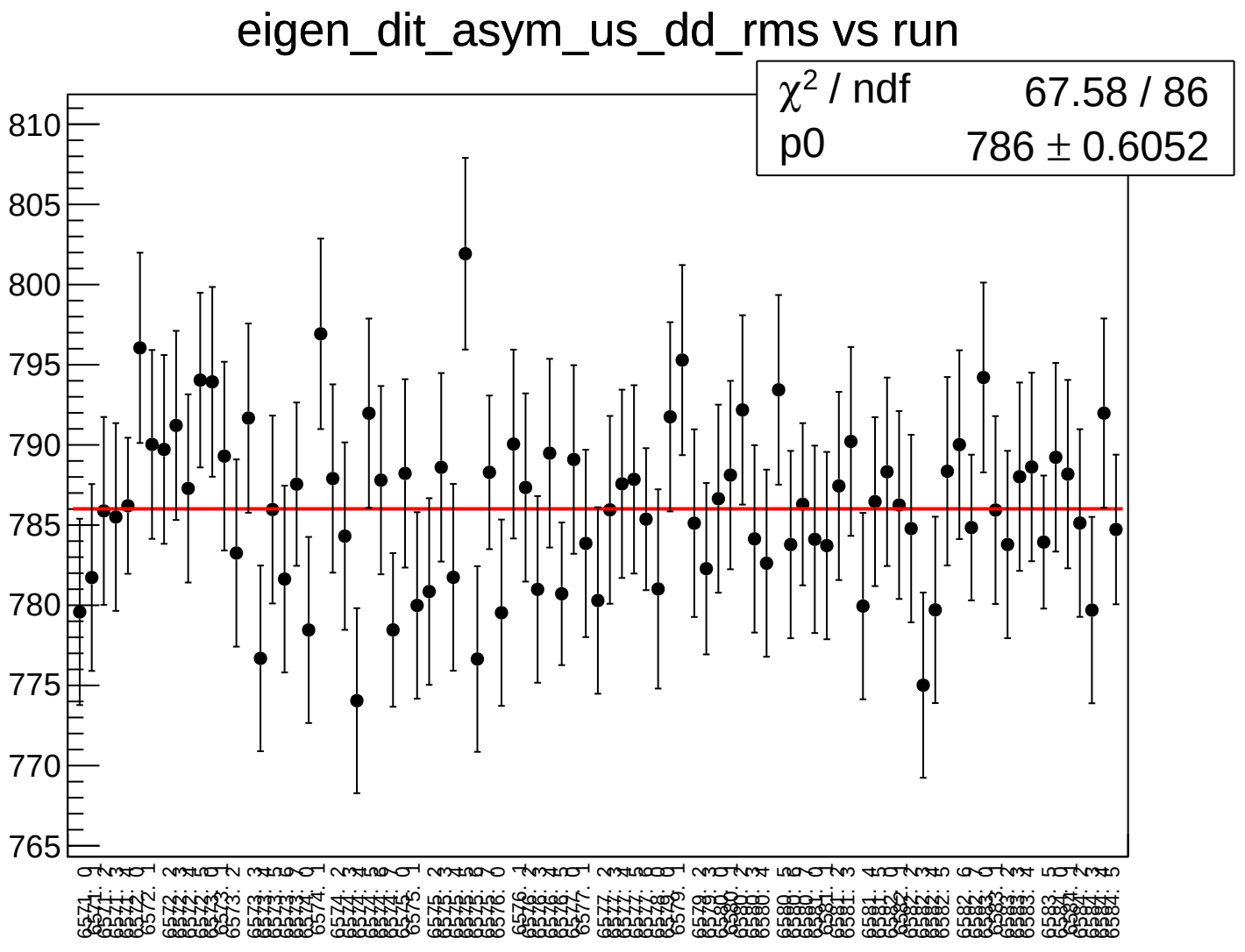

asym_us_dd_dit_correction_mean vs run
χ² / ndf 104.1 / 86
p0 −832.7 ± 472.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 163.2
Std Dev 0
3
2
1
0
−1
−2

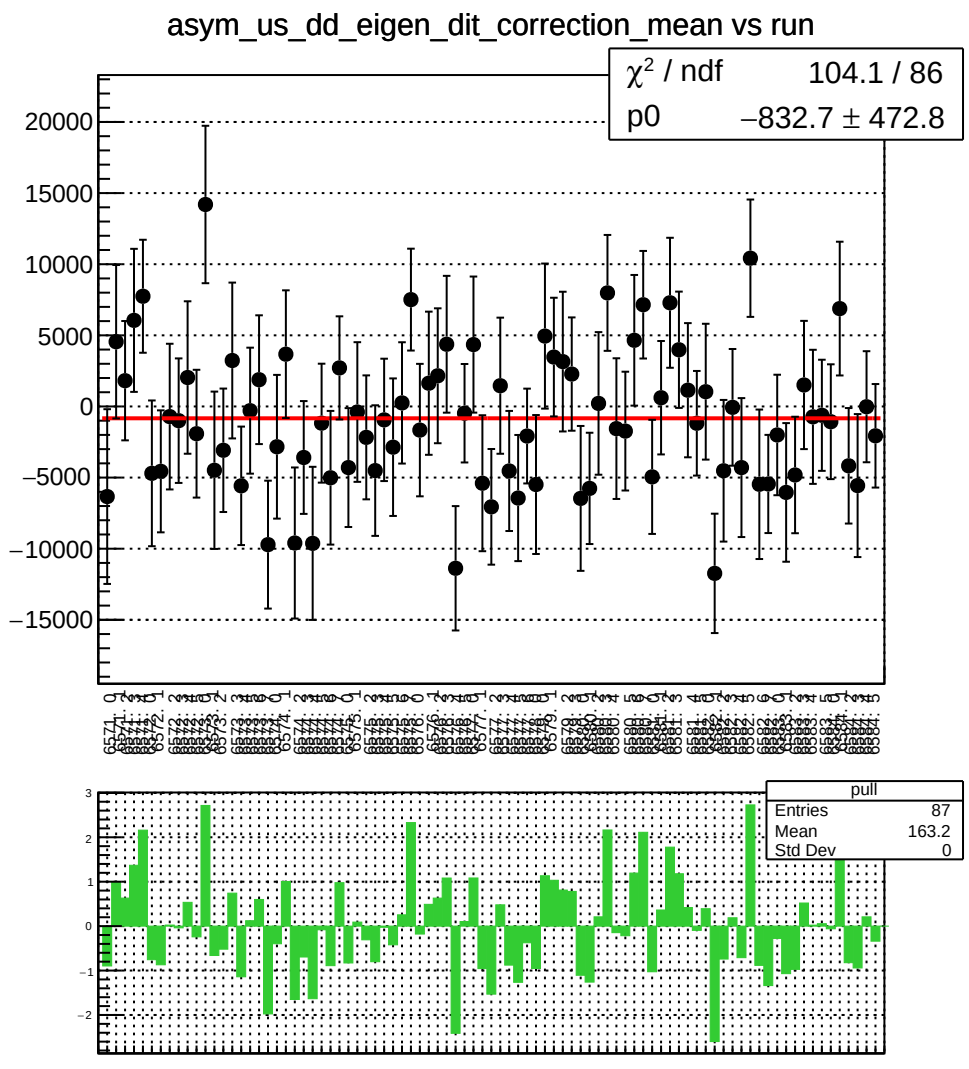

pull1D
Entries 87
Mean −0.007106
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

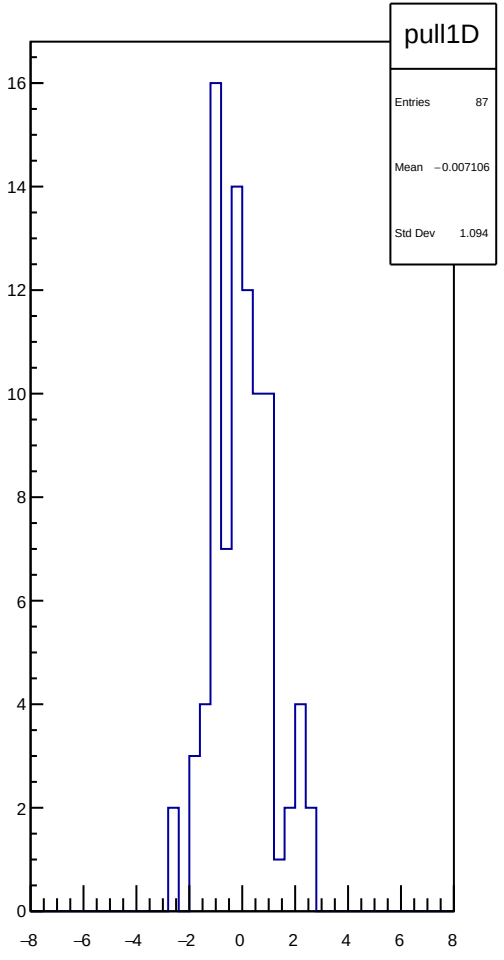

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.606e+04 / 86
p0 432.1 ± 0.3343
600
550
500
450
400
350

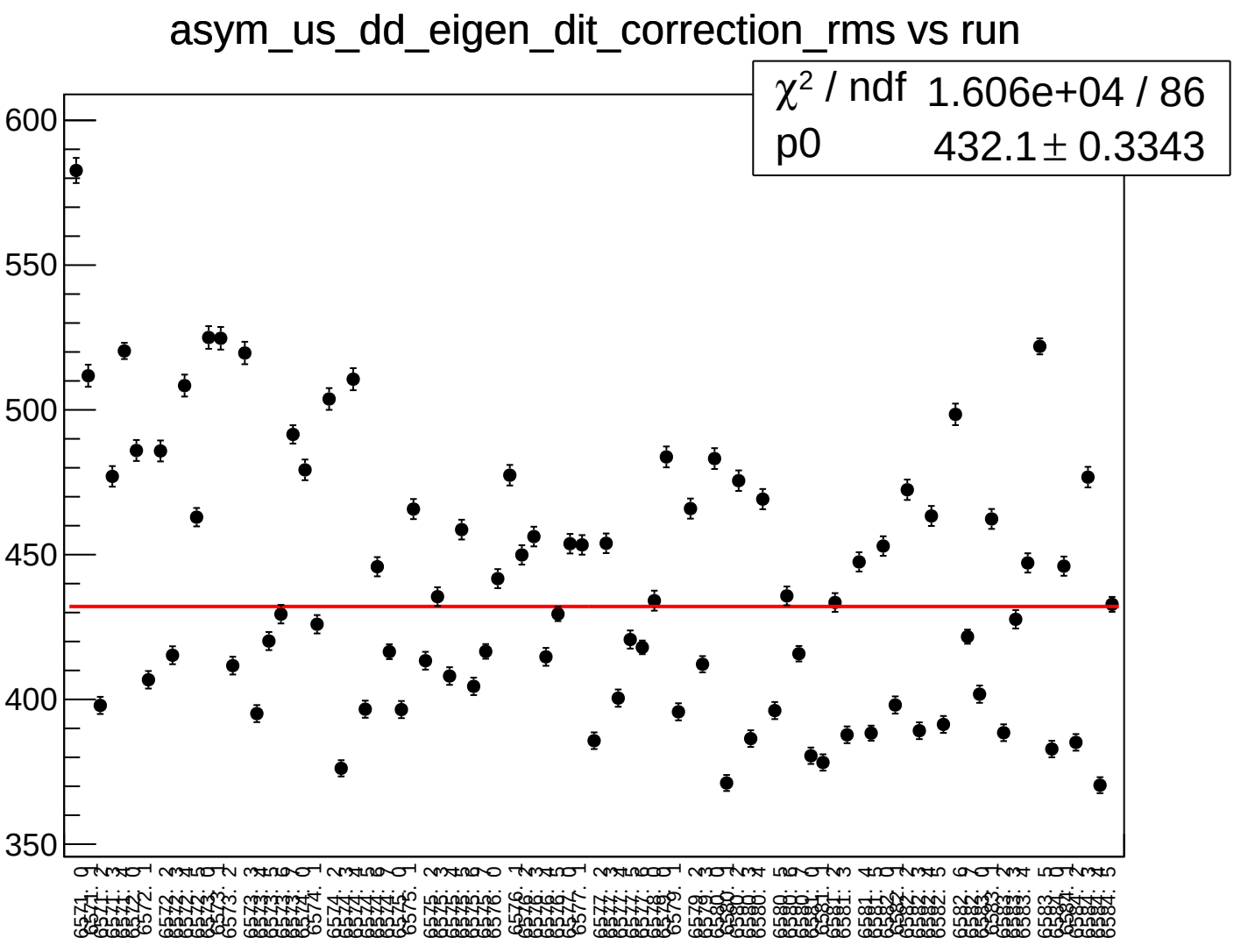

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 70.98 / 86
p0 −179.6 ± 855.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −878.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

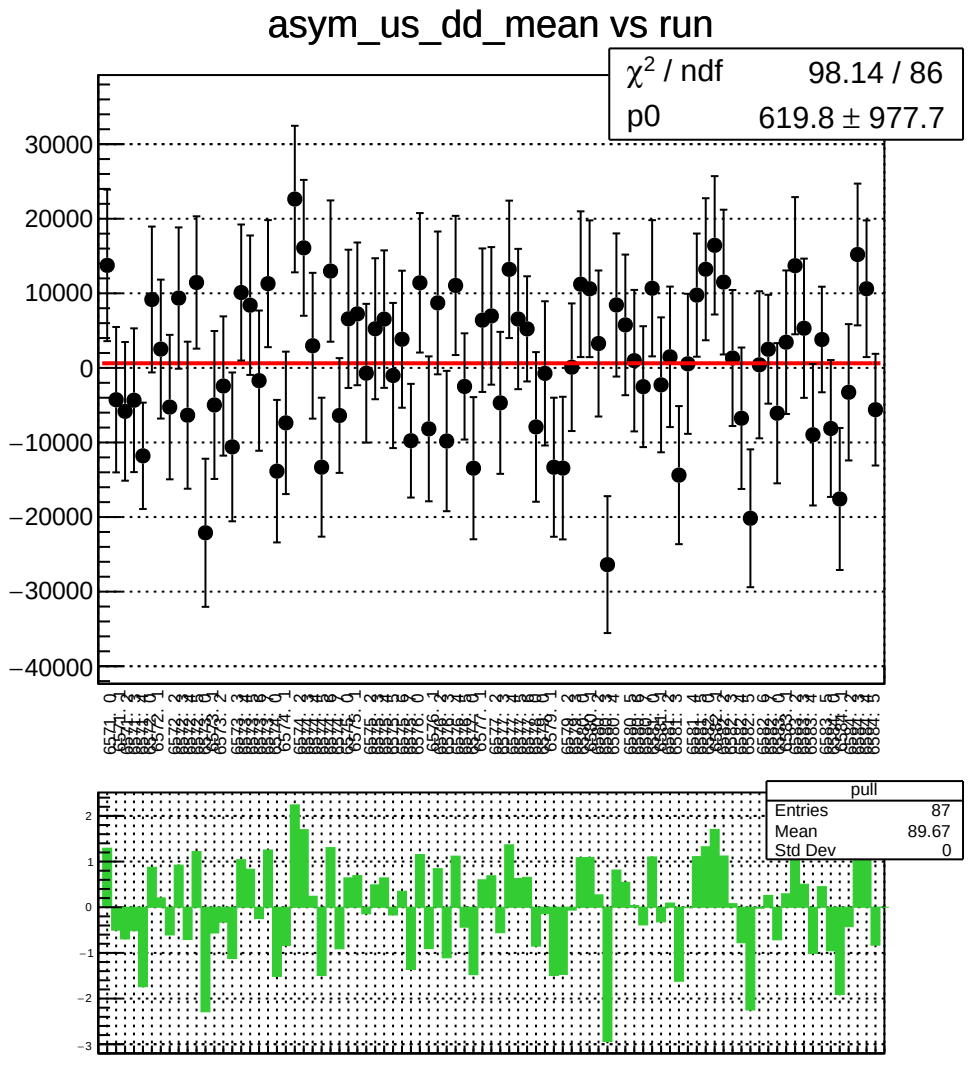

pull1D
Entries 87
Mean 0.0002689
Std Dev 0.9033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

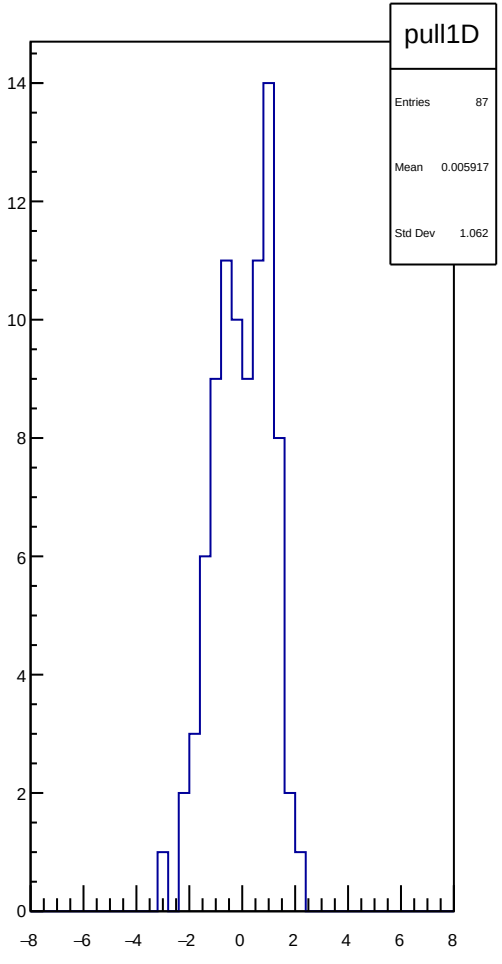

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 67.58 / 86
p0 786 ± 0.6052
810
805
800
795
790
785
780
775
770
765

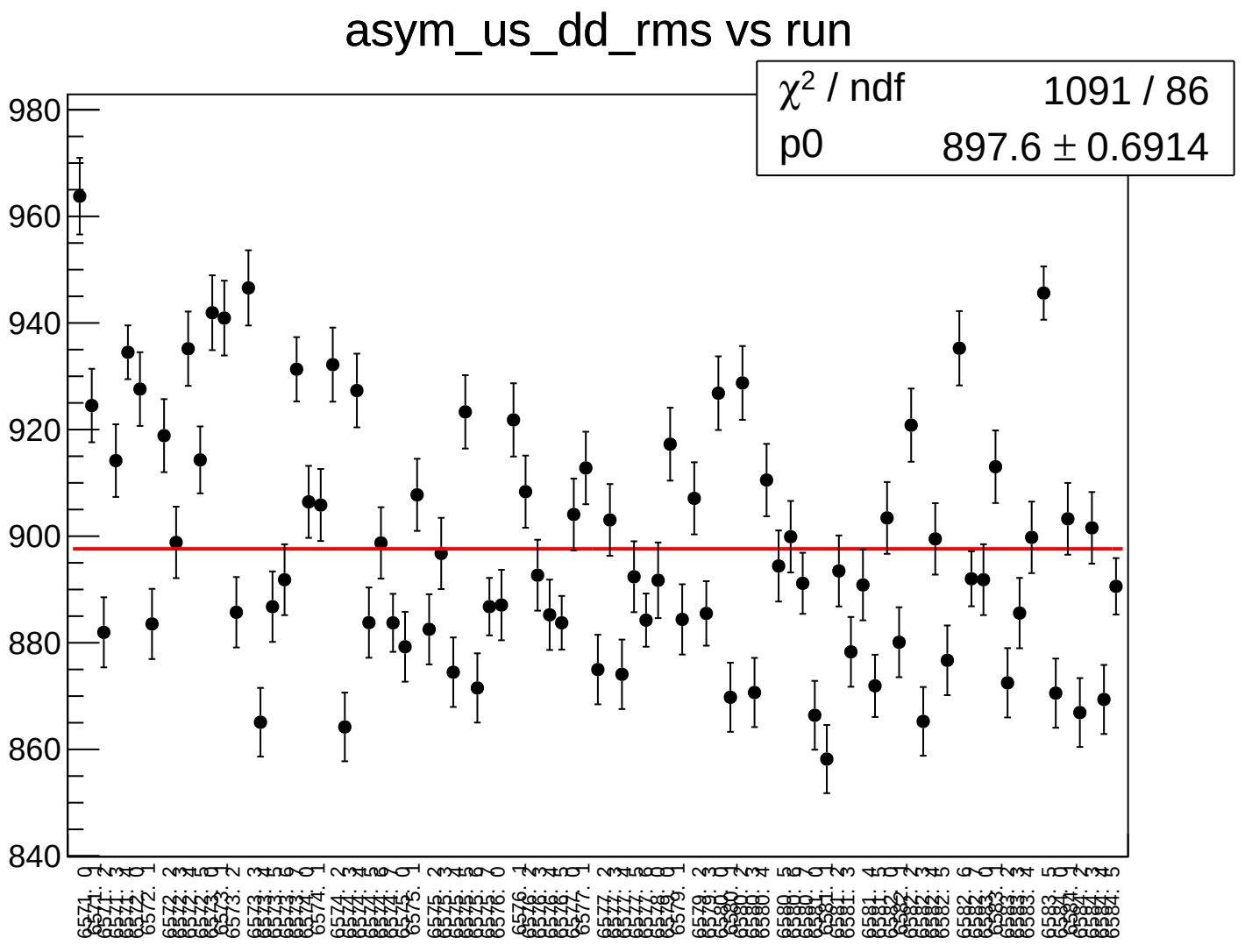

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 104.1 / 86
p0 −832.7 ± 472.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 163.2
Std Dev 0
3
2
1
0
−1
−2

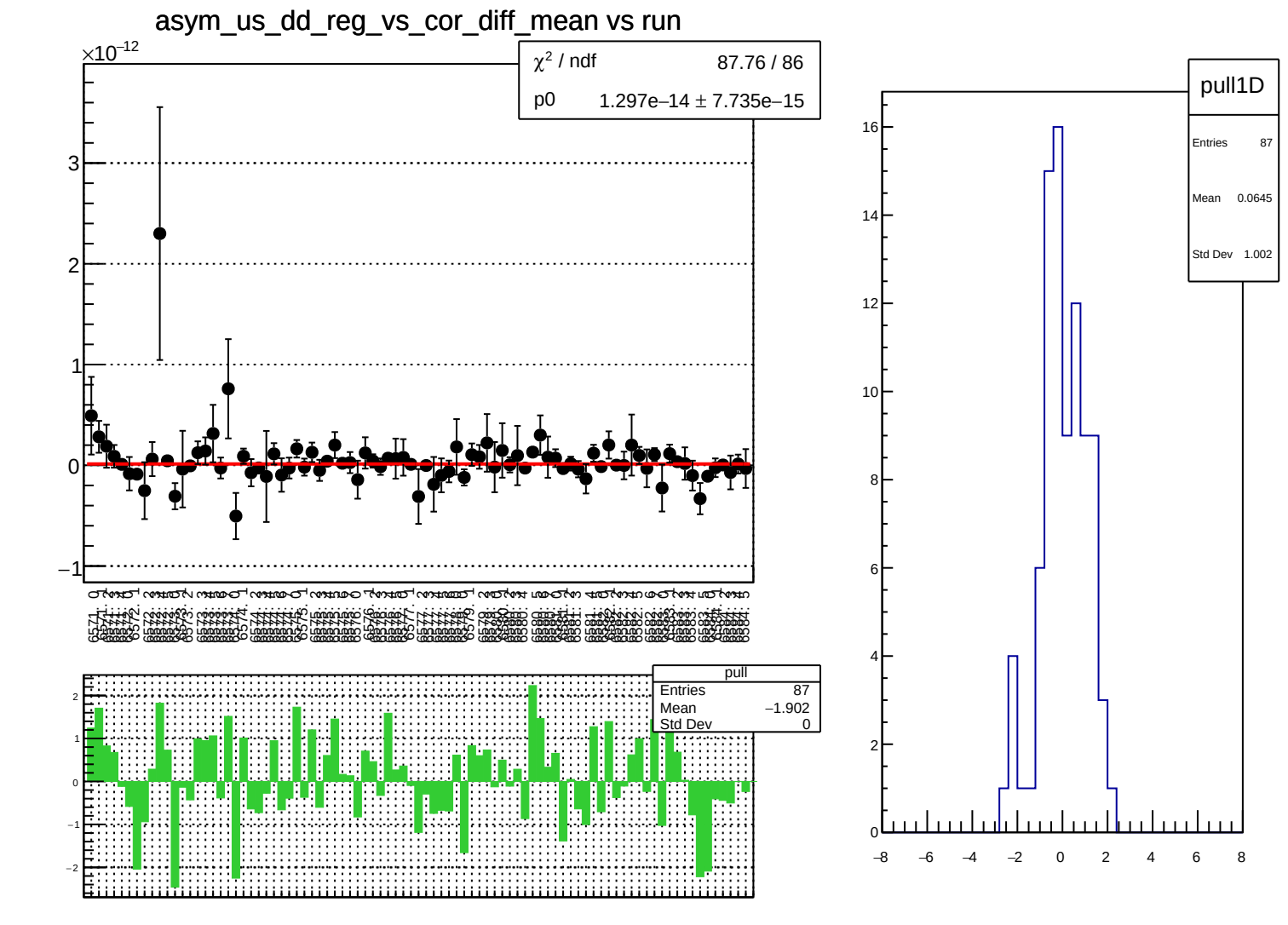

pull1D
Entries 87
Mean −0.007106
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

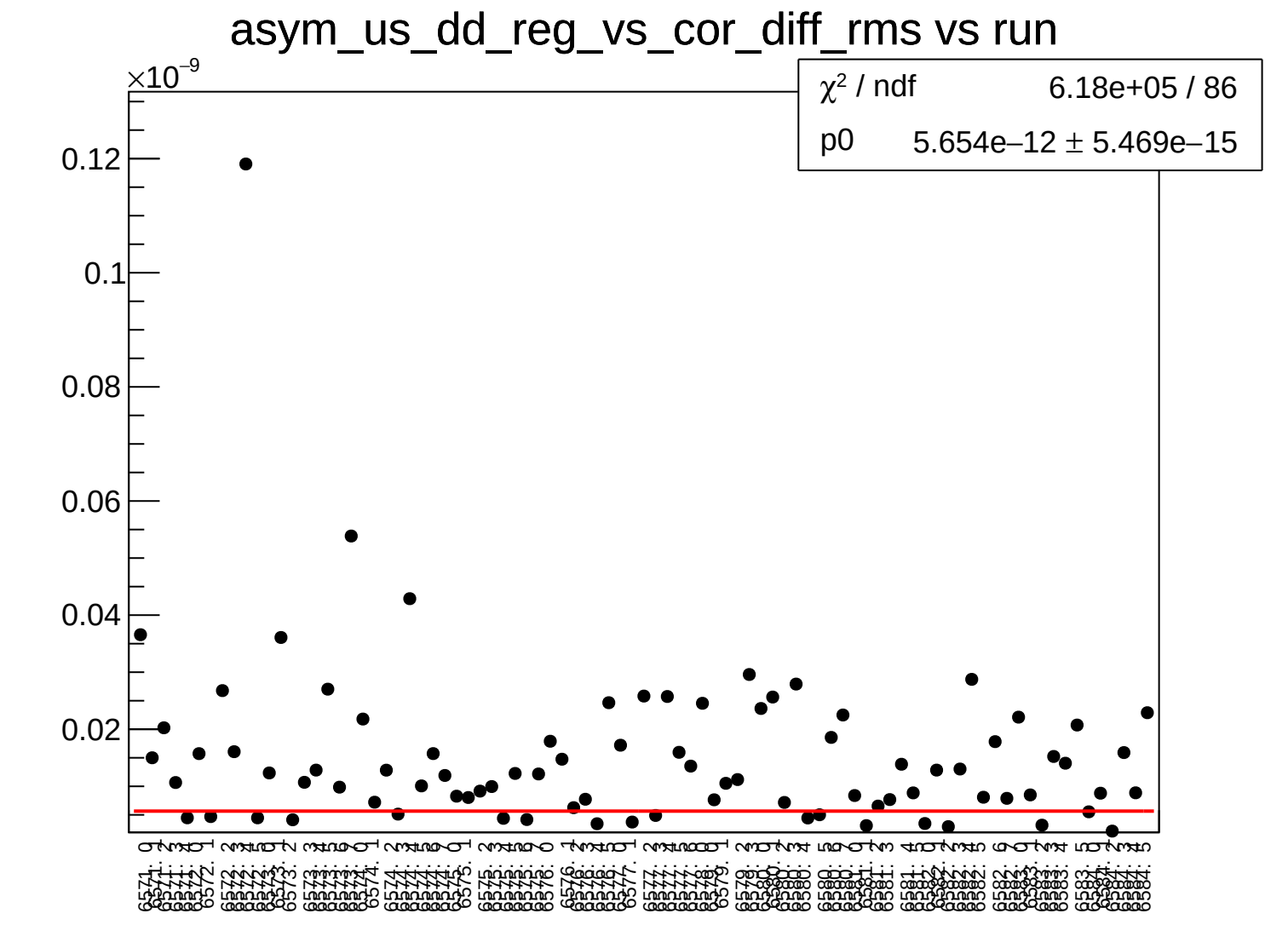

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.606e+04 / 86
p0 432.1 ± 0.3343
600
550
500
450
400
350

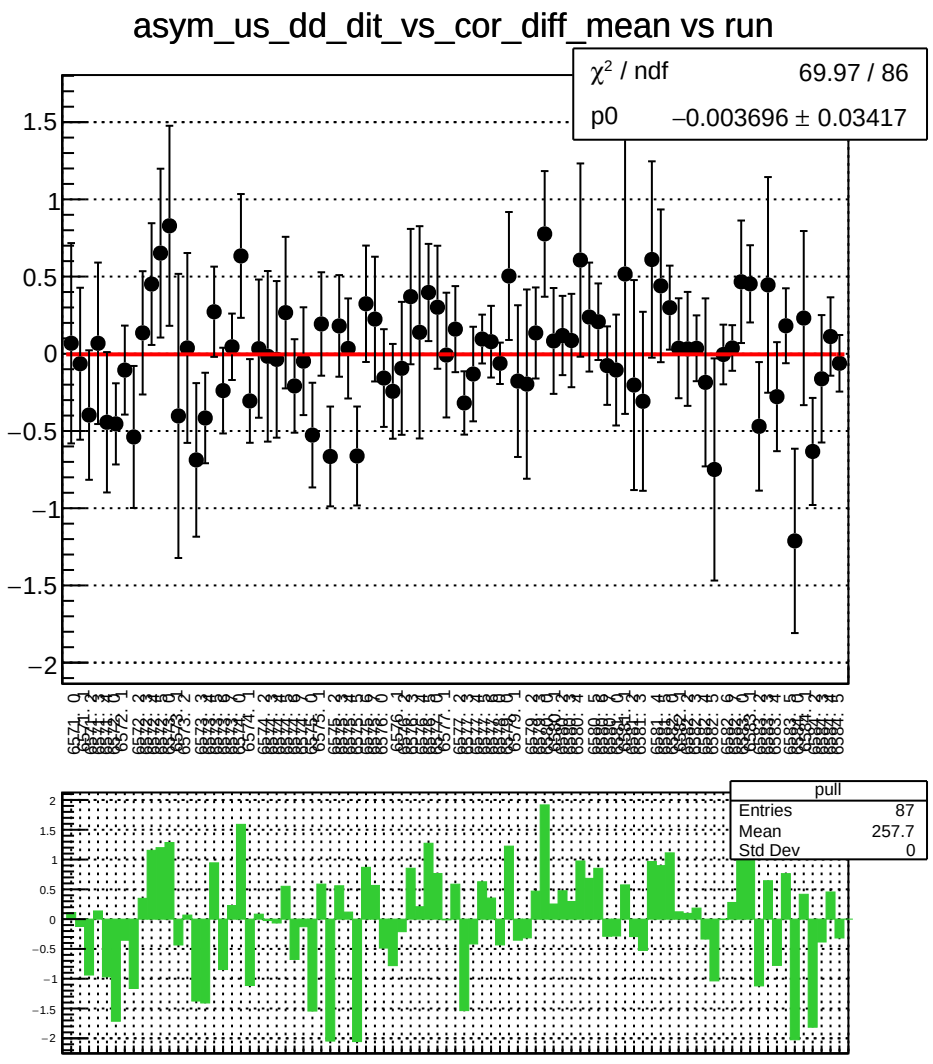

asym_us_dd_mean vs run
χ² / ndf 98.14 / 86
p0 619.8 ± 977.7
pull
Entries 87
Mean 89.67
Std Dev 0

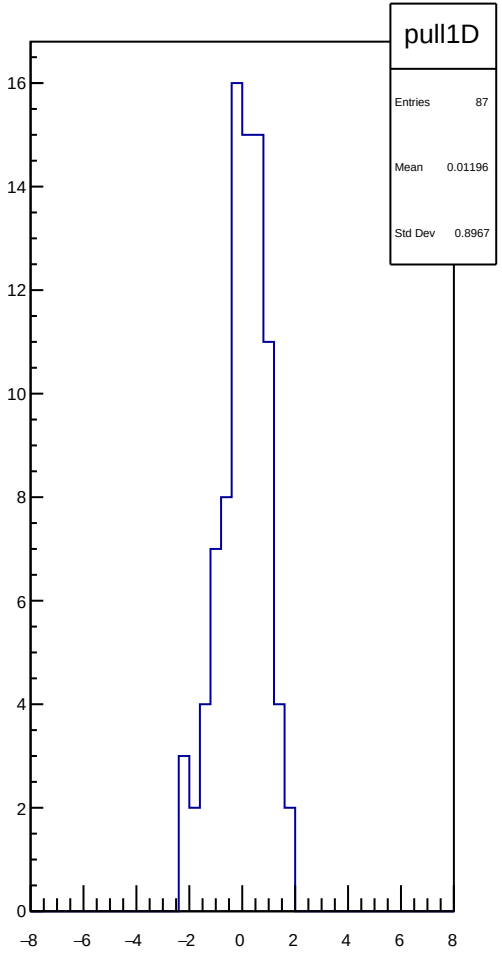

pull1D
Entries 87
Mean 0.005917
Std Dev 1.062

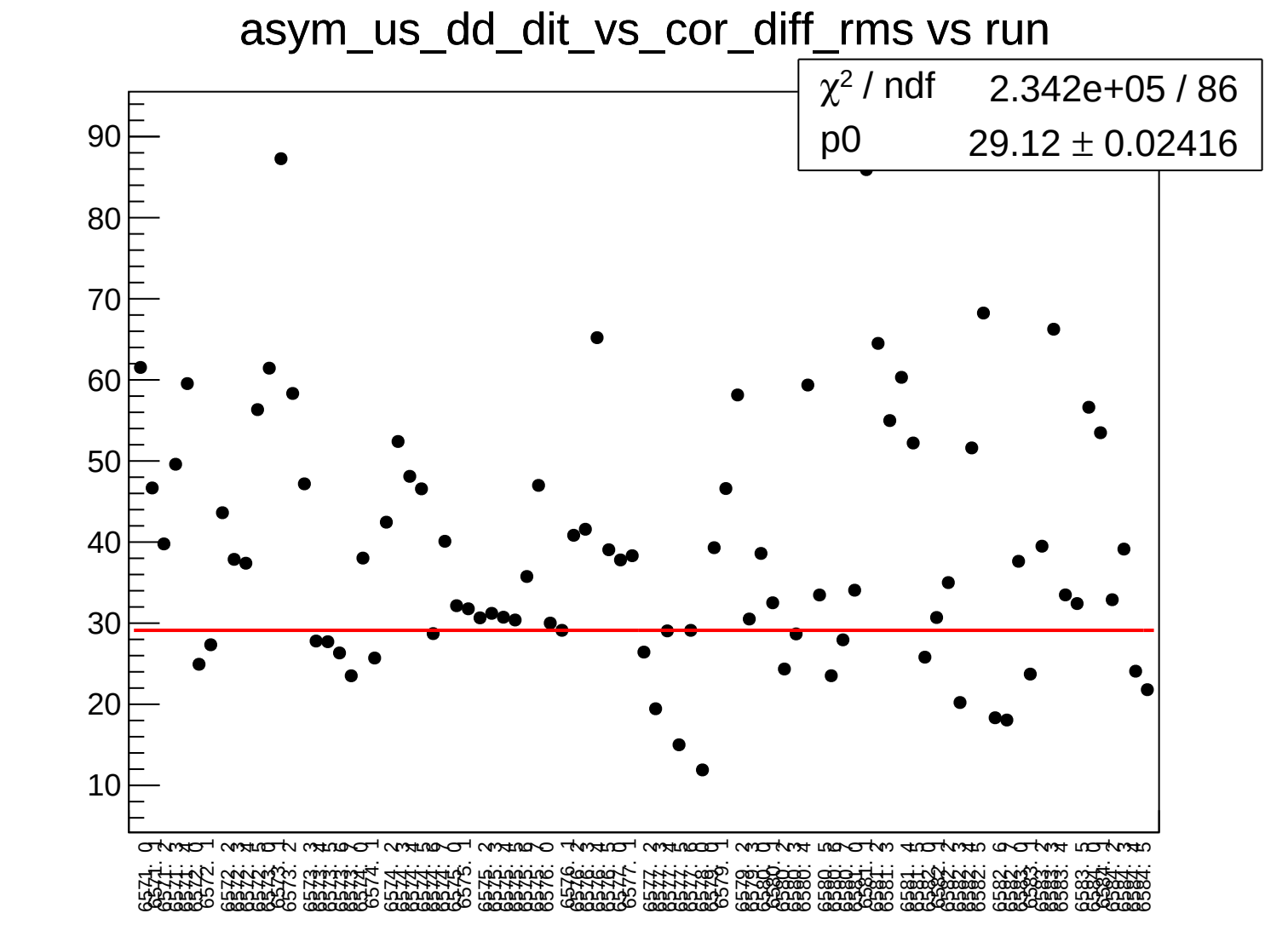

asym_us_dd_rms vs run
χ^2 / ndf 1091 / 86
p0 897.6 ± 0.6914
980
960
940
920
900
880
860
840

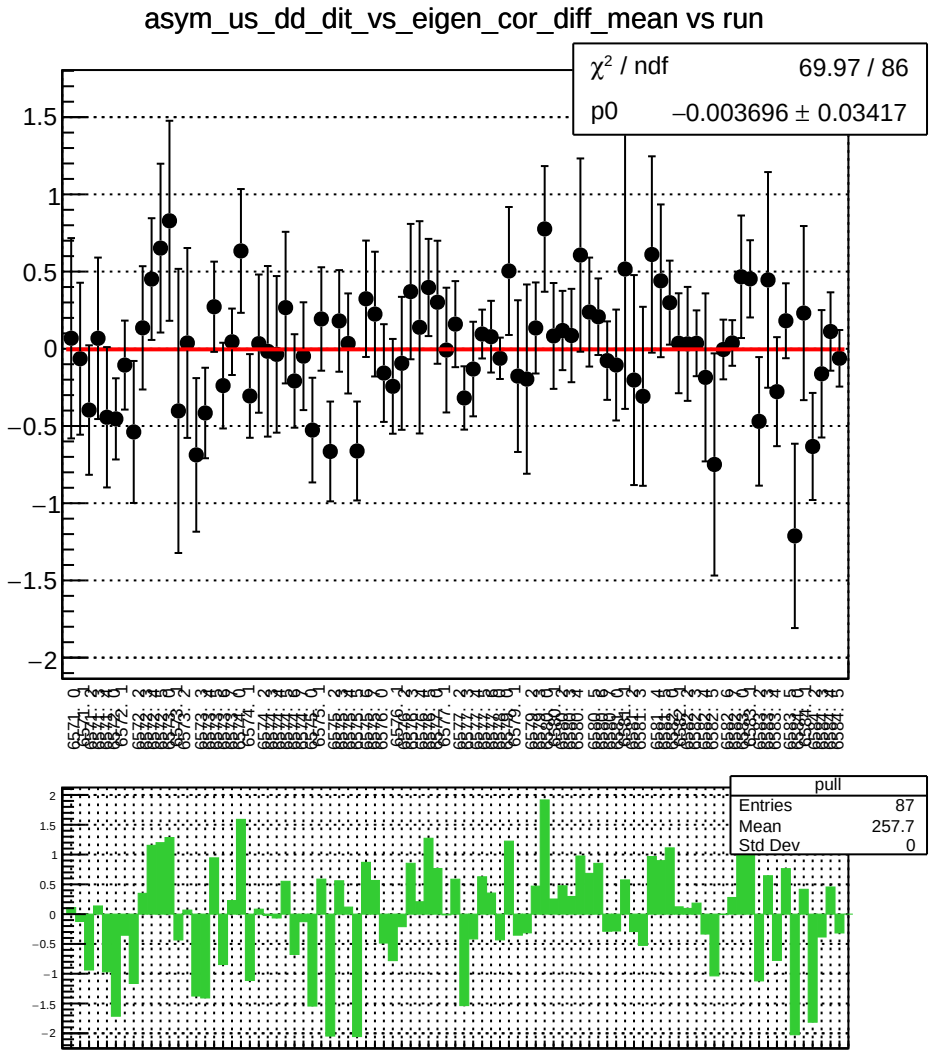

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.76 / 86
p0 1.297e−14 ± 7.735e−15
pull
Entries 87
Mean −1.902
Std Dev 0
pull1D
Entries 87
Mean 0.0645
Std Dev 1.002

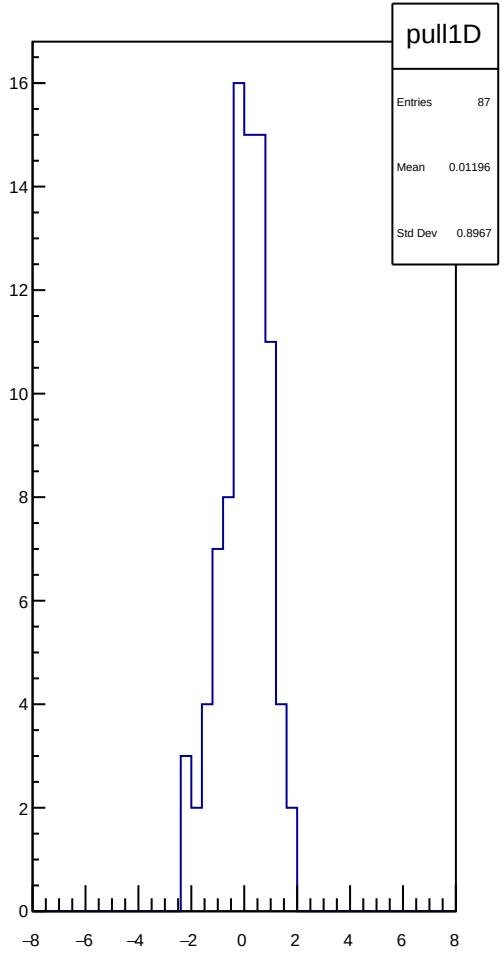

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.18e+05 / 86
p0 5.654e−12 ± 5.469e−15
0.12
0.1
0.08
0.06
0.04
0.02

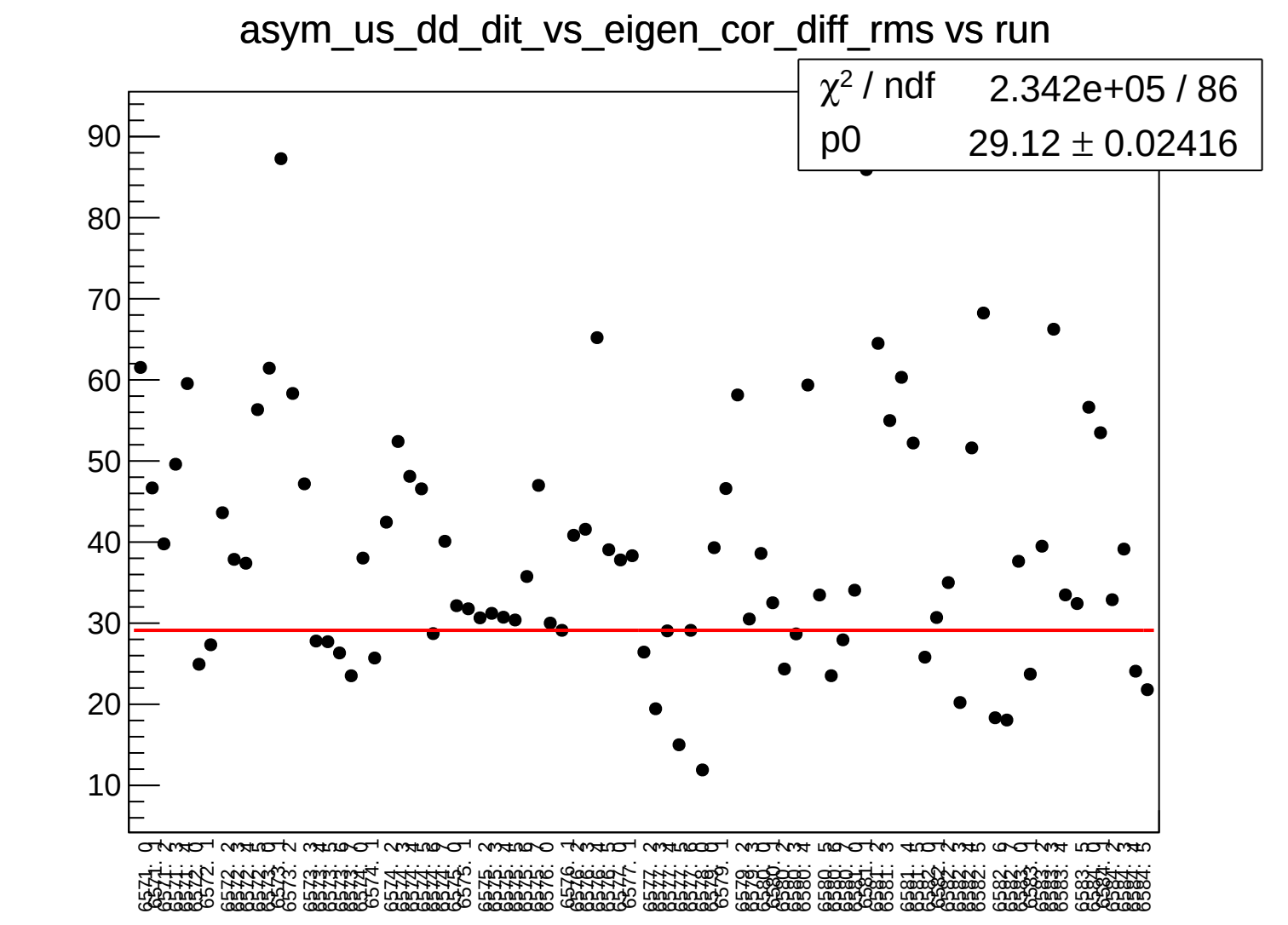

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.97 / 86
p0 −0.003696 ± 0.03417
pull
Entries 87
Mean 257.7
Std Dev 0

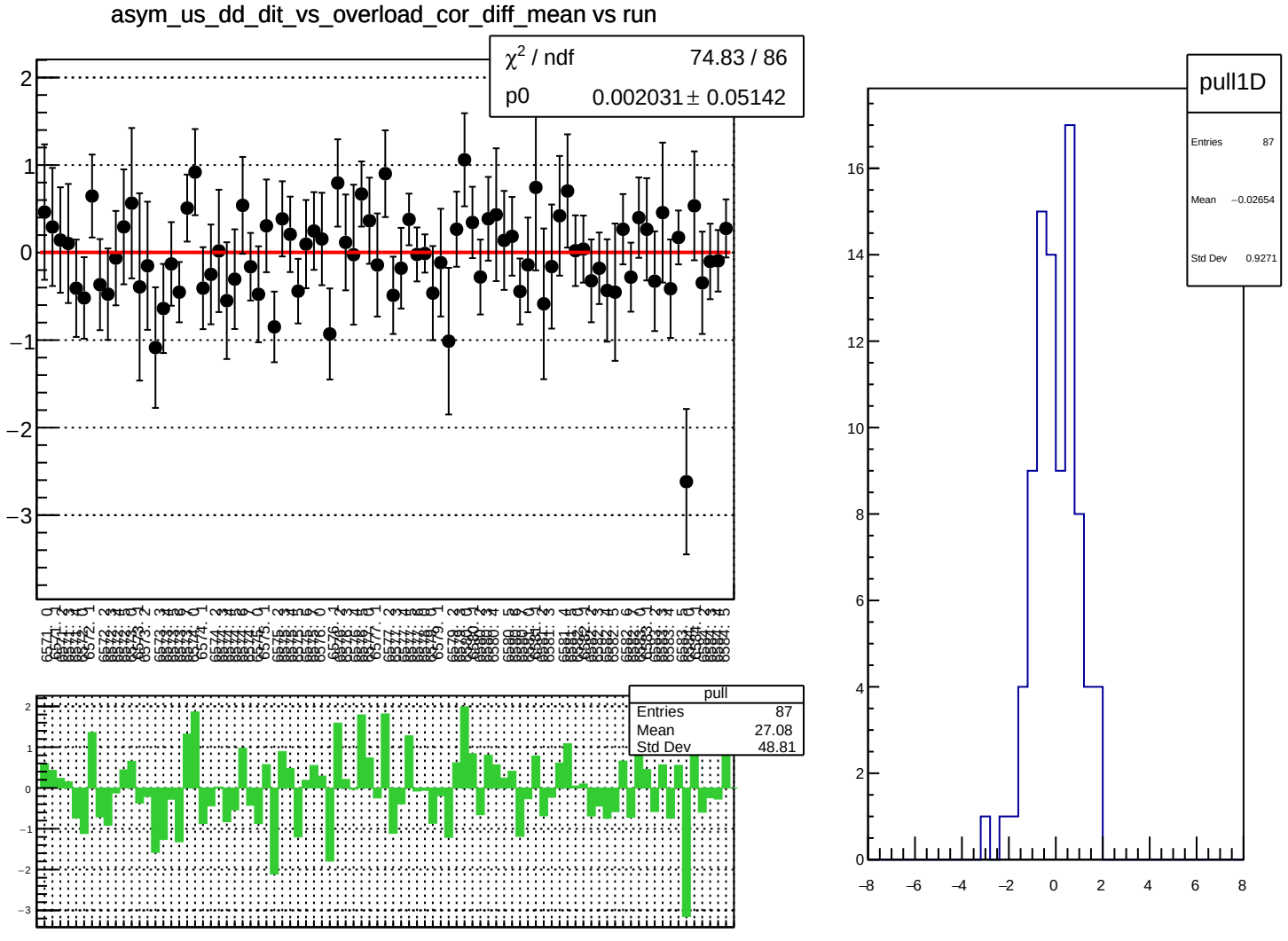

pull1D
Entries 87
Mean 0.01196
Std Dev 0.8967

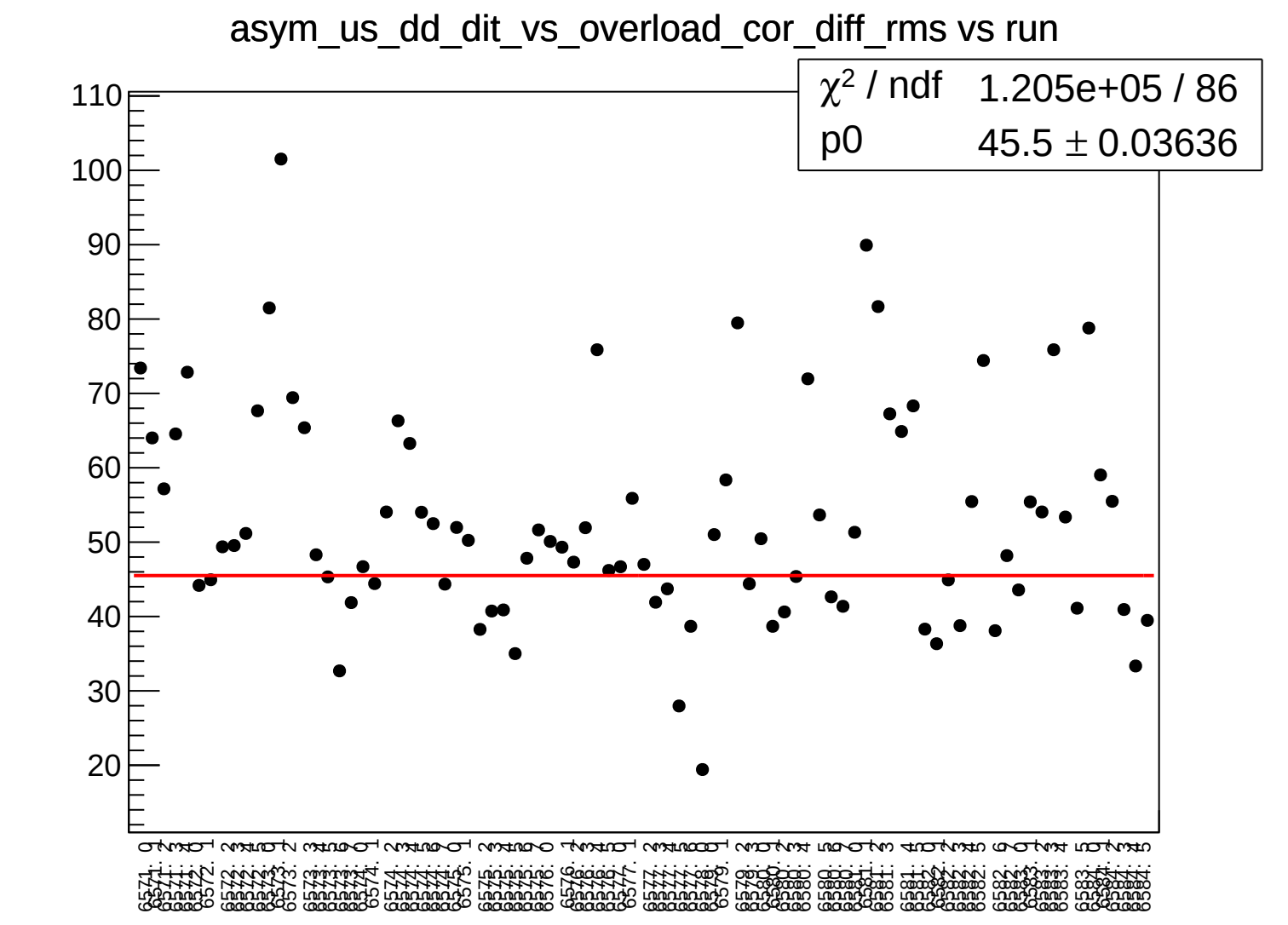

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.342e+05 / 86
p0 29.12 ± 0.02416
90
80
70
60
50
40
30
20
10

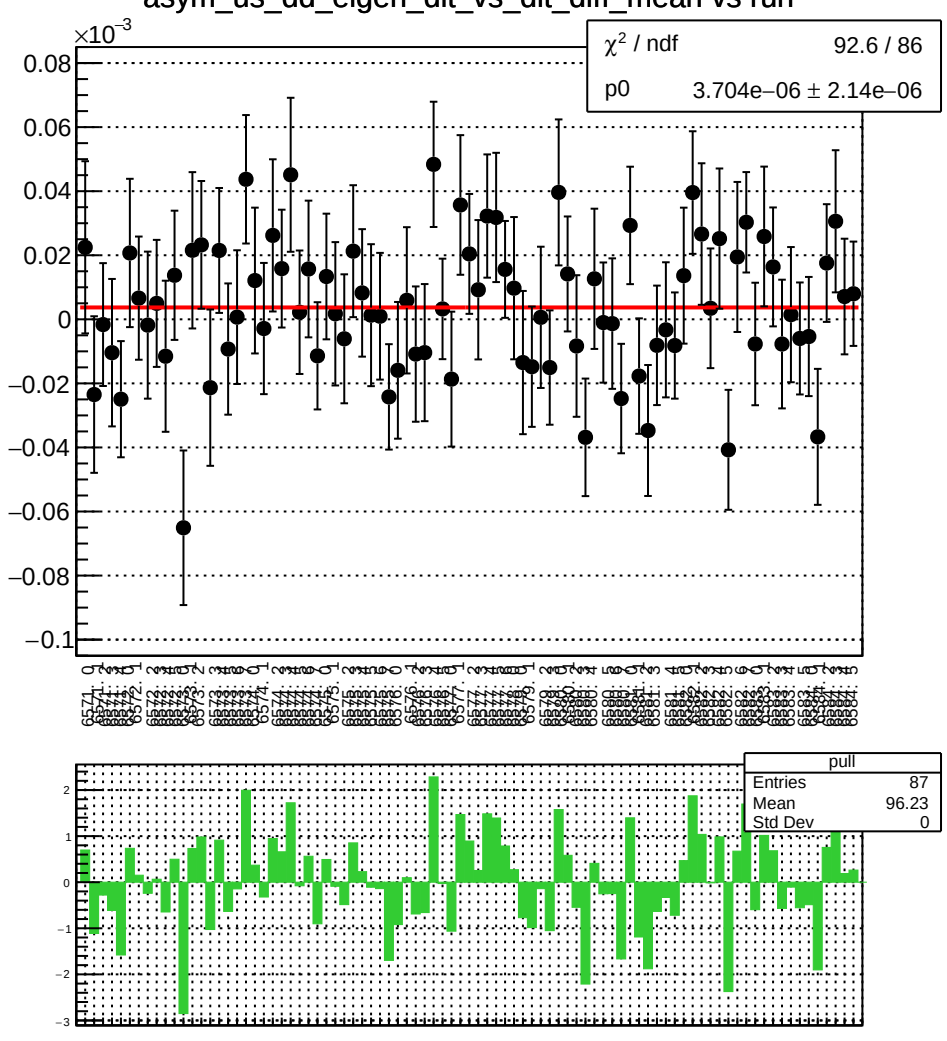

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.97 / 86
p0 −0.003696 ± 0.03417
pull
Entries 87
Mean 257.7
Std Dev 0

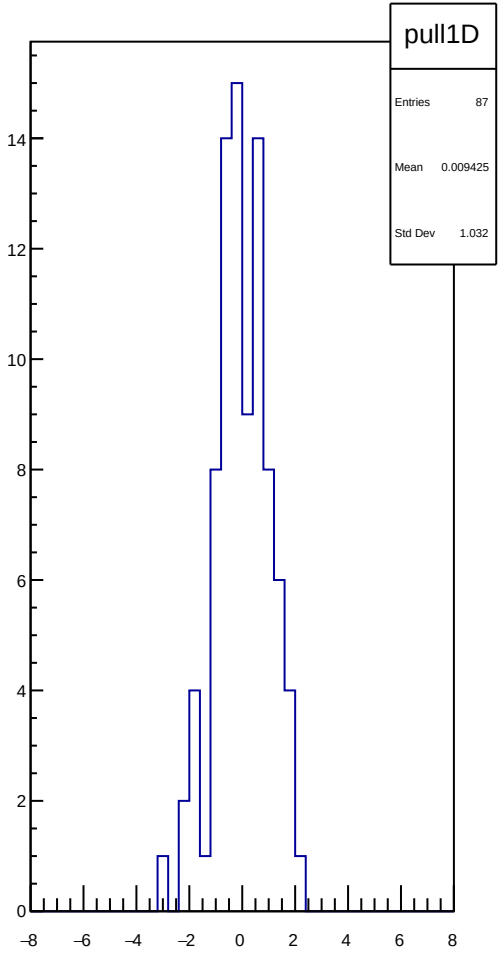

pull1D
Entries 87
Mean 0.01196
Std Dev 0.8967

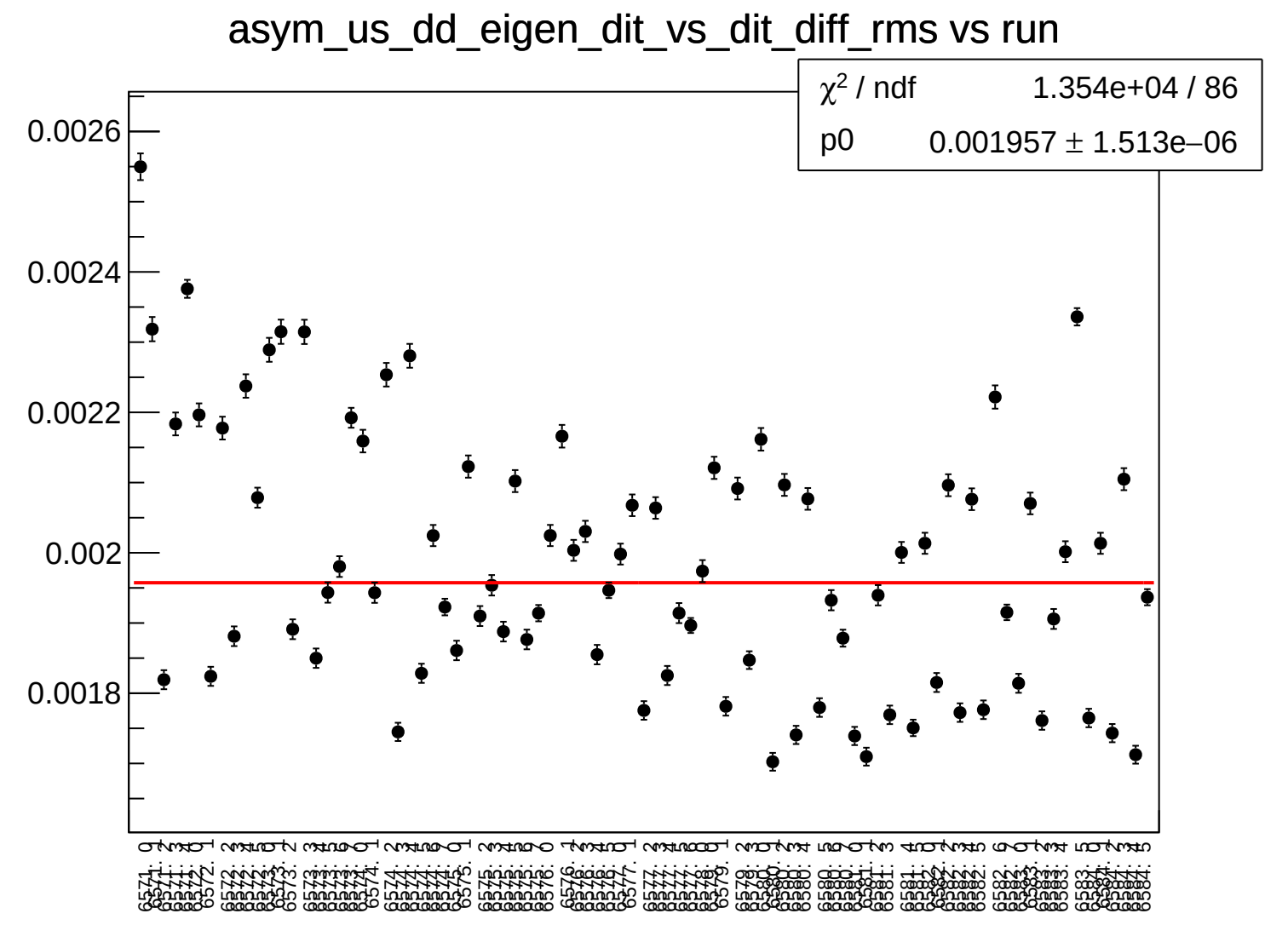

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.342e+05 / 86
p0 29.12 ± 0.02416
90
80
70
60
50
40
30
20
10

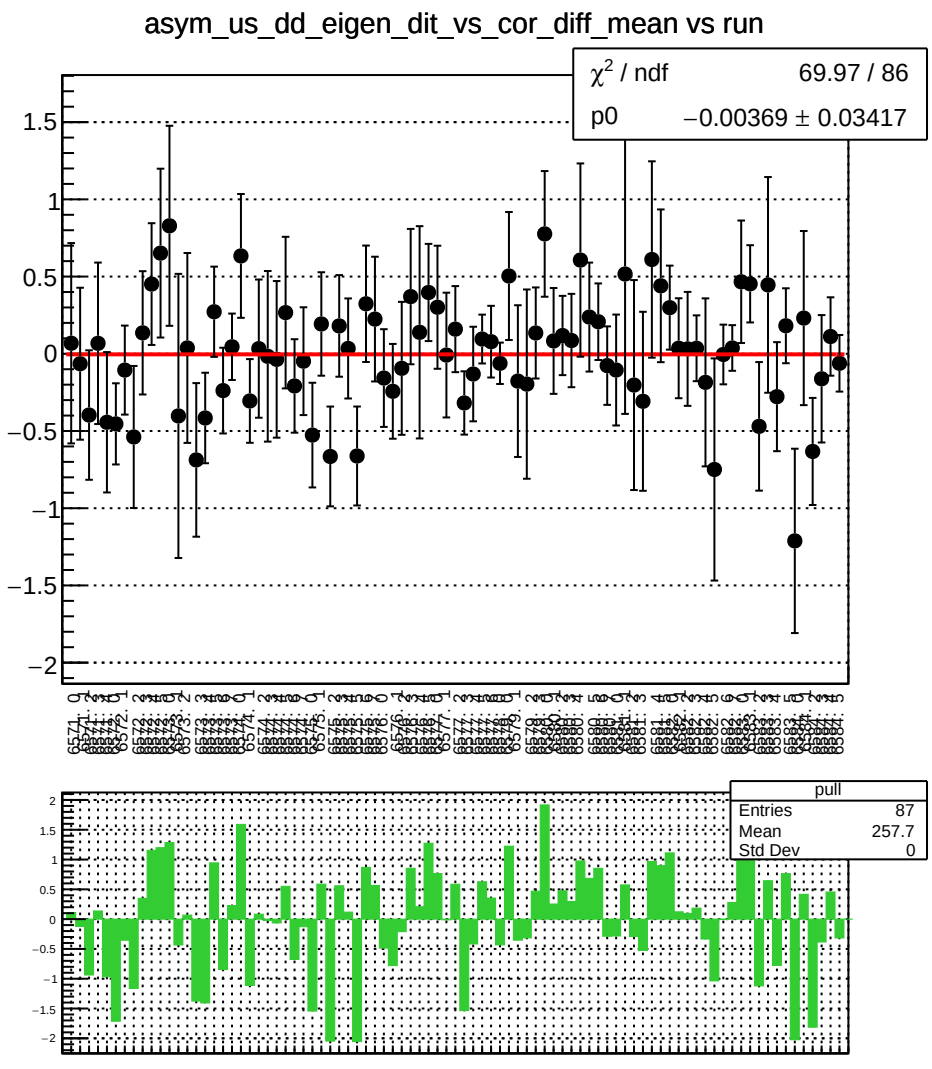

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.83 / 86
p0 0.002031 ± 0.05142
pull
Entries 87
Mean 27.08
Std Dev 48.81
pull1D
Entries 87
Mean −0.02654
Std Dev 0.9271

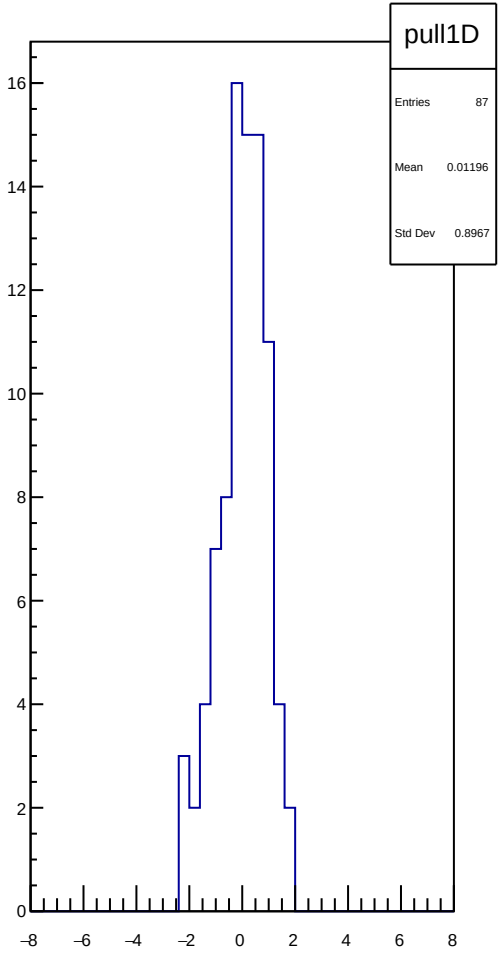

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.205e+05 / 86
p0 45.5 ± 0.03636
110
100
90
80
70
60
50
40
30
20

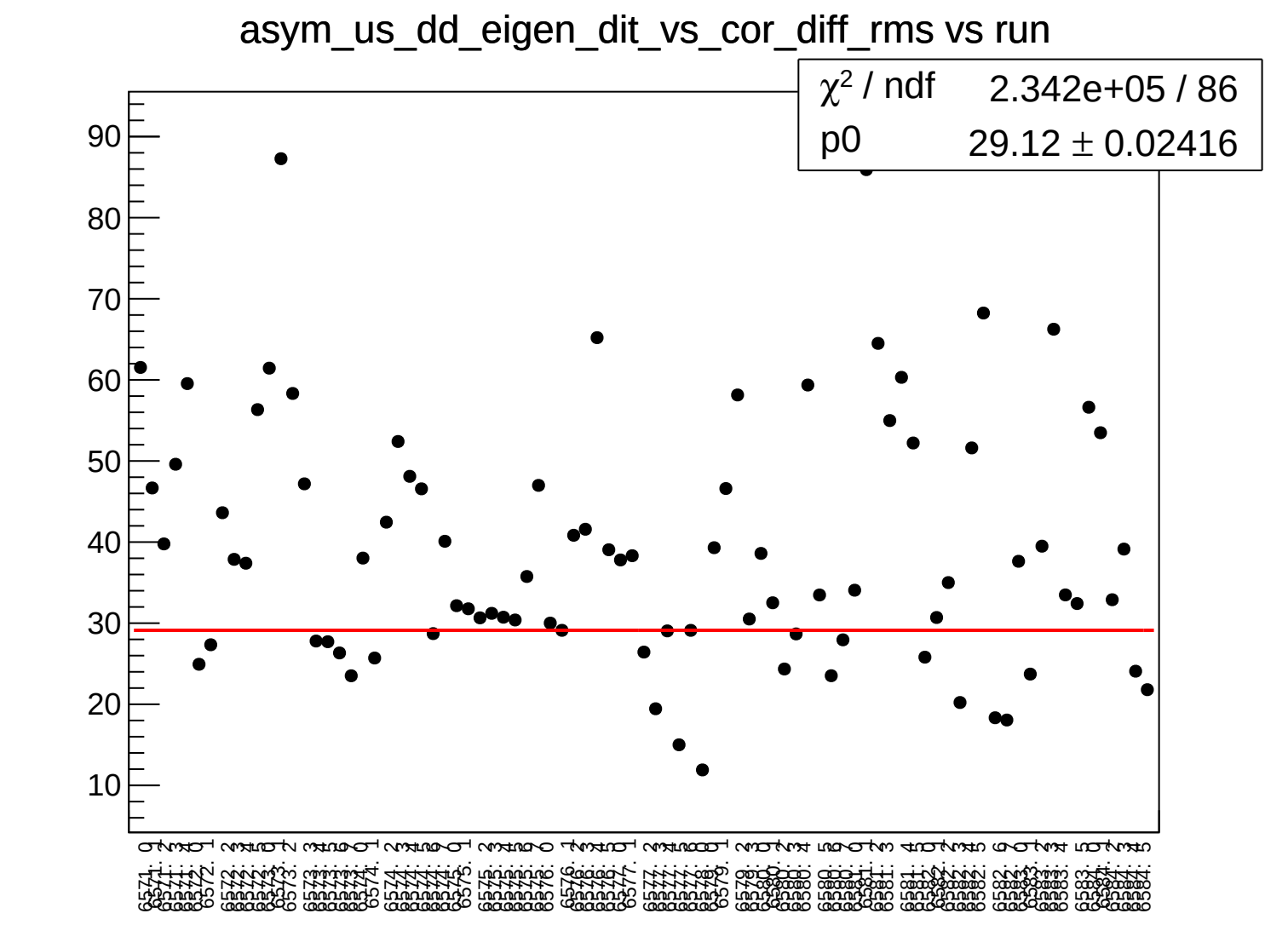

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.6 / 86
p0 3.704e−06 ± 2.14e−06
pull
Entries 87
Mean 96.23
Std Dev 0

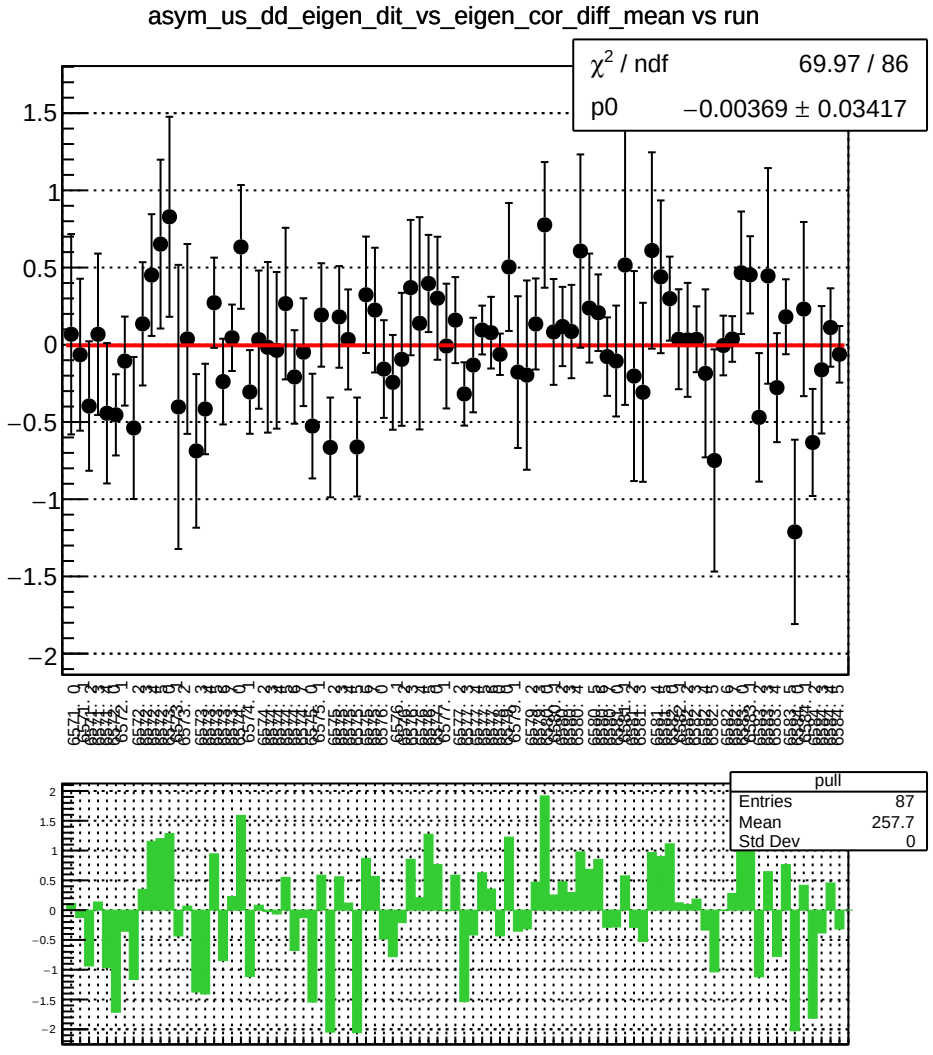

pull1D
Entries 87
Mean 0.009425
Std Dev 1.032

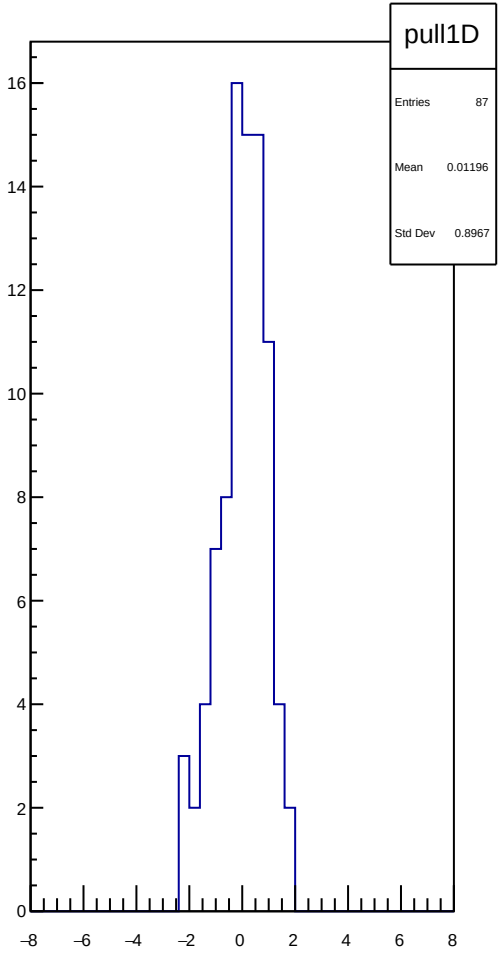

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.354e+04 / 86
p0 0.001957 ± 1.513e−06
0.0026
0.0024
0.0022
0.002
0.0018

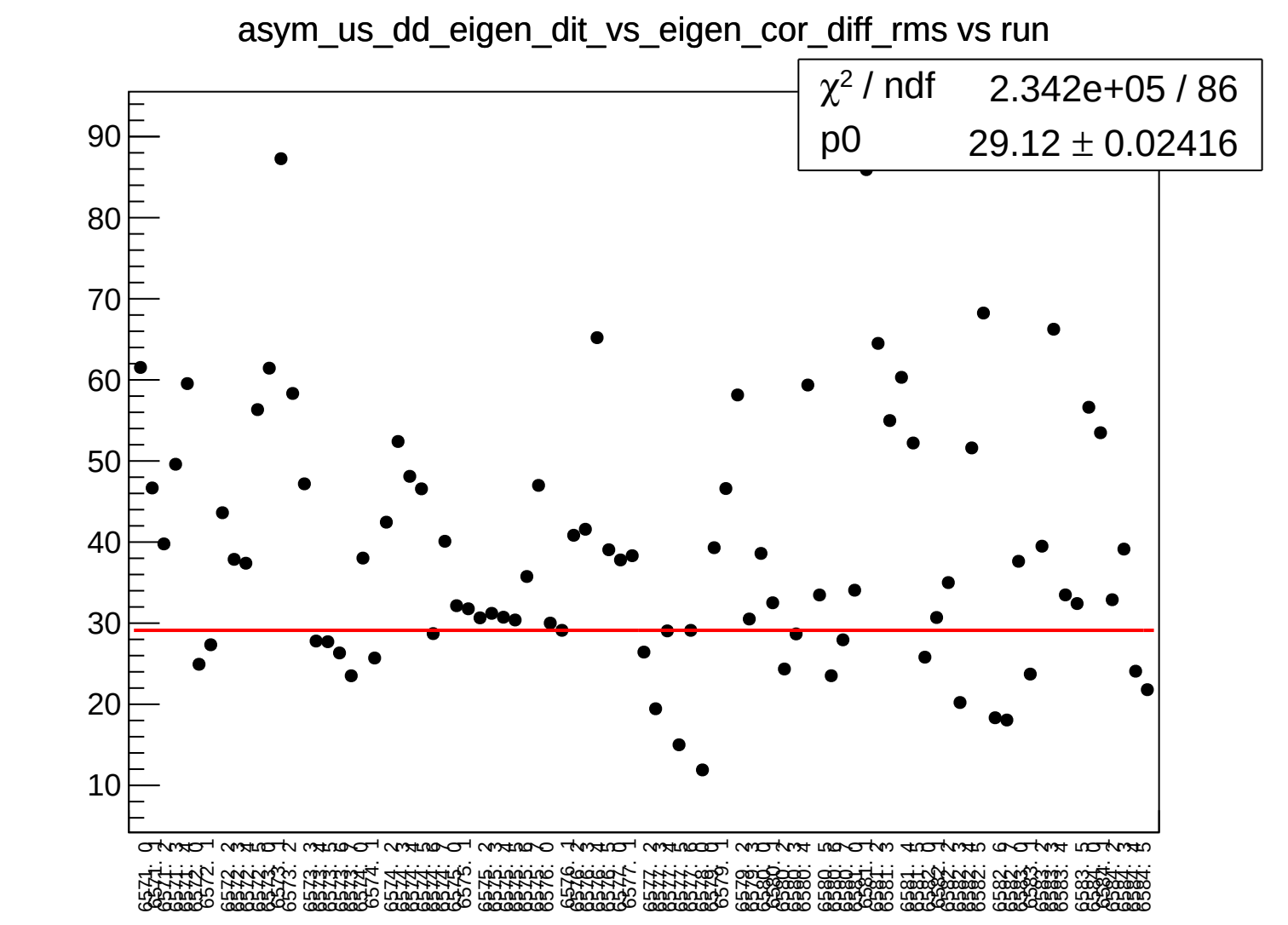

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.97 / 86
p0 −0.00369 ± 0.03417
pull
Entries 87
Mean 257.7
Std Dev 0

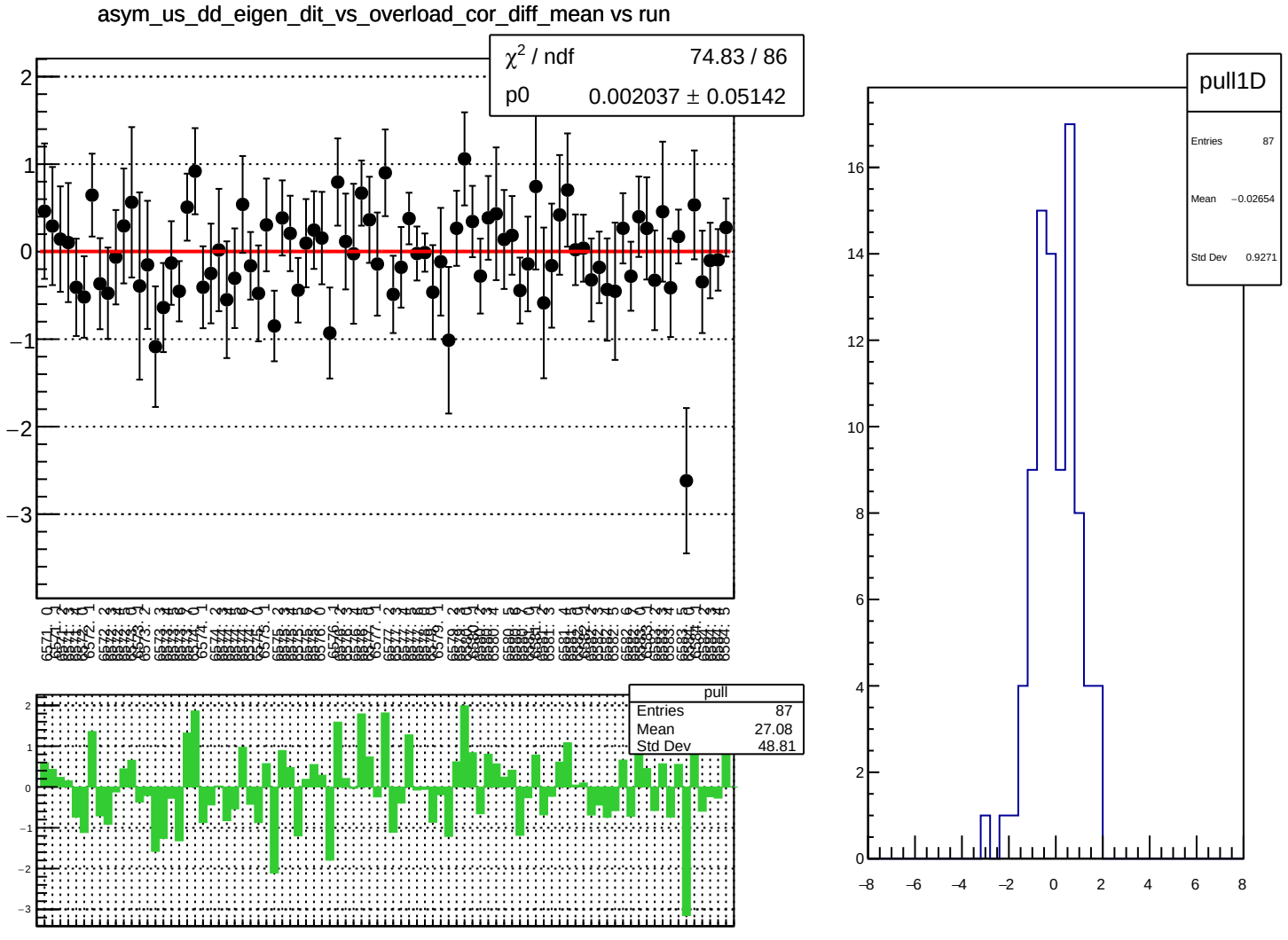

pull1D
Entries 87
Mean 0.01196
Std Dev 0.8967

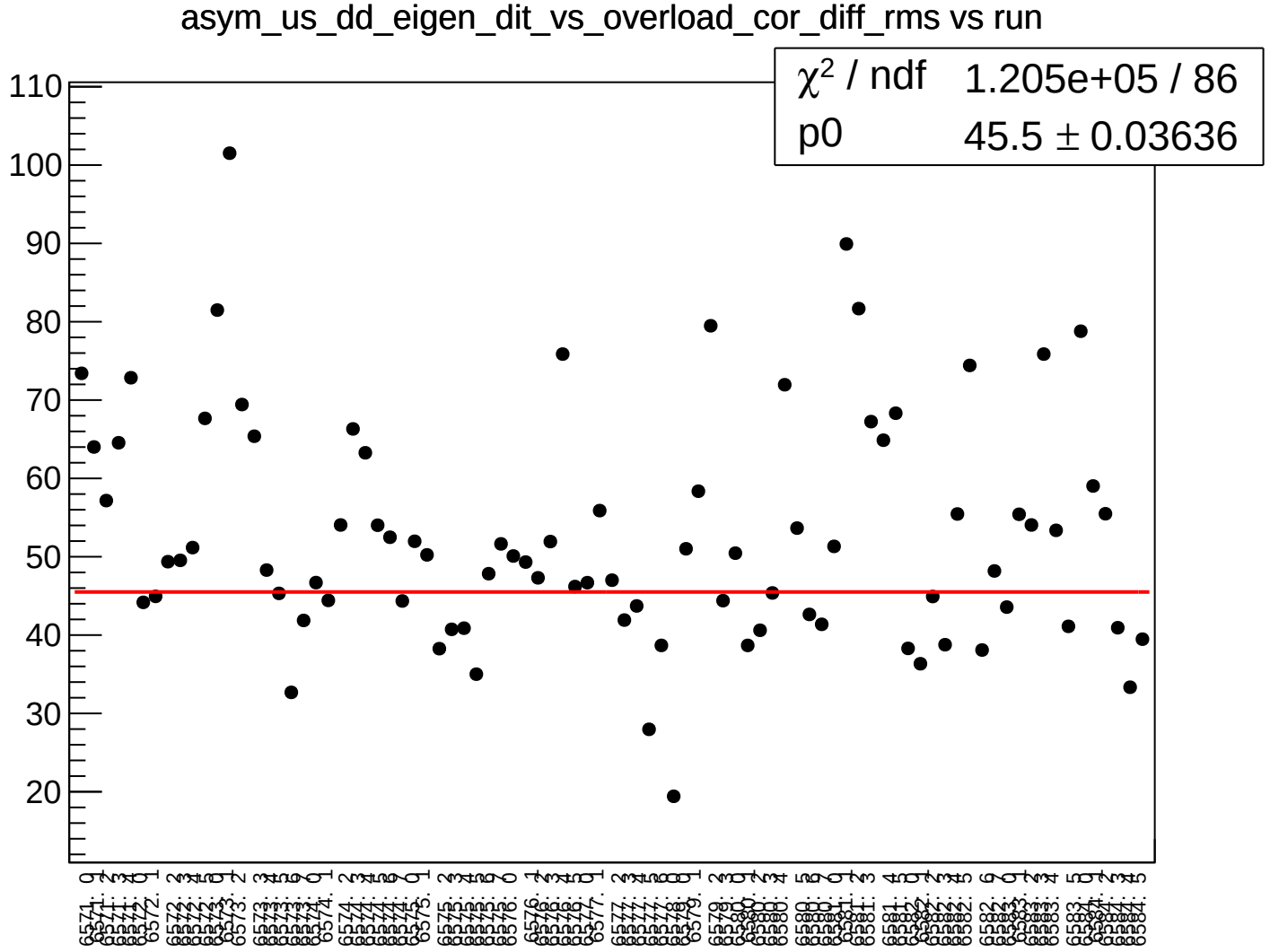

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.342e+05 / 86
p0 29.12 ± 0.02416
90
80
70
60
50
40
30
20
10

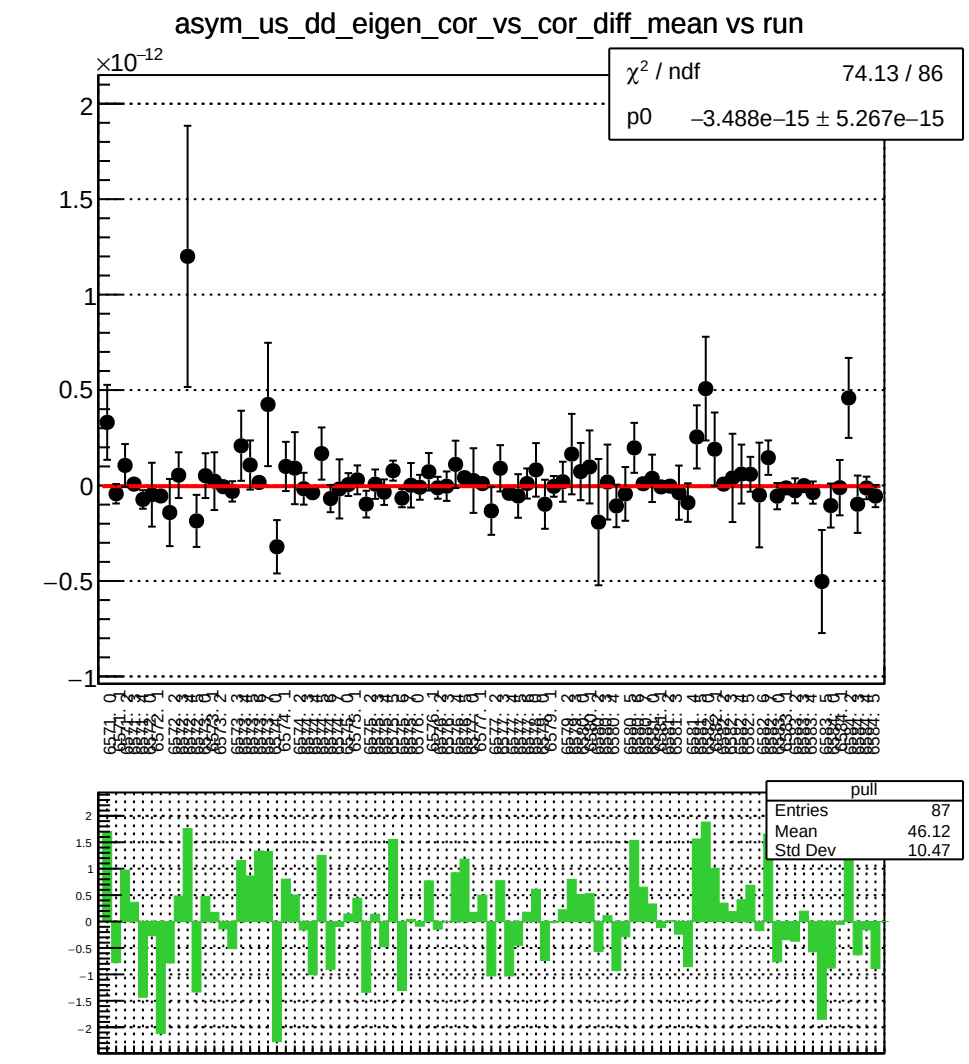

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.97 / 86
p0 −0.00369 ± 0.03417
pull
Entries 87
Mean 257.7
Std Dev 0

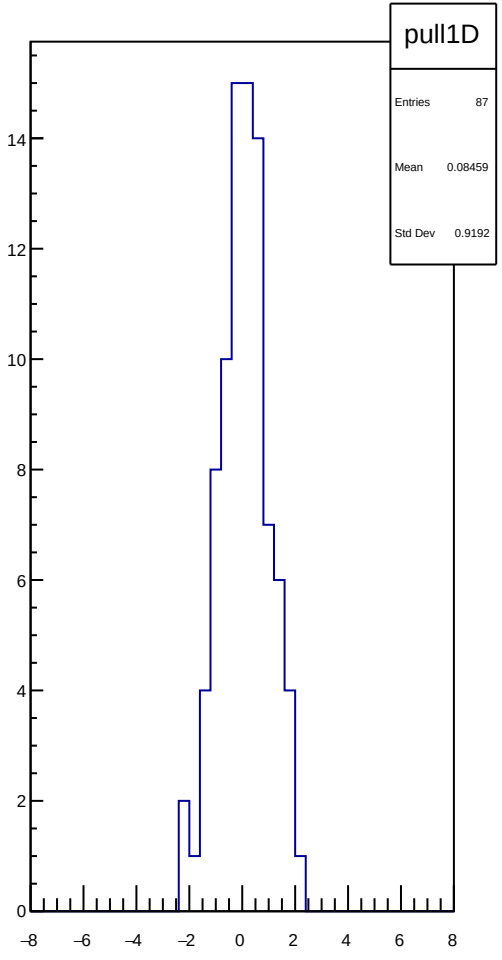

pull1D
Entries 87
Mean 0.01196
Std Dev 0.8967

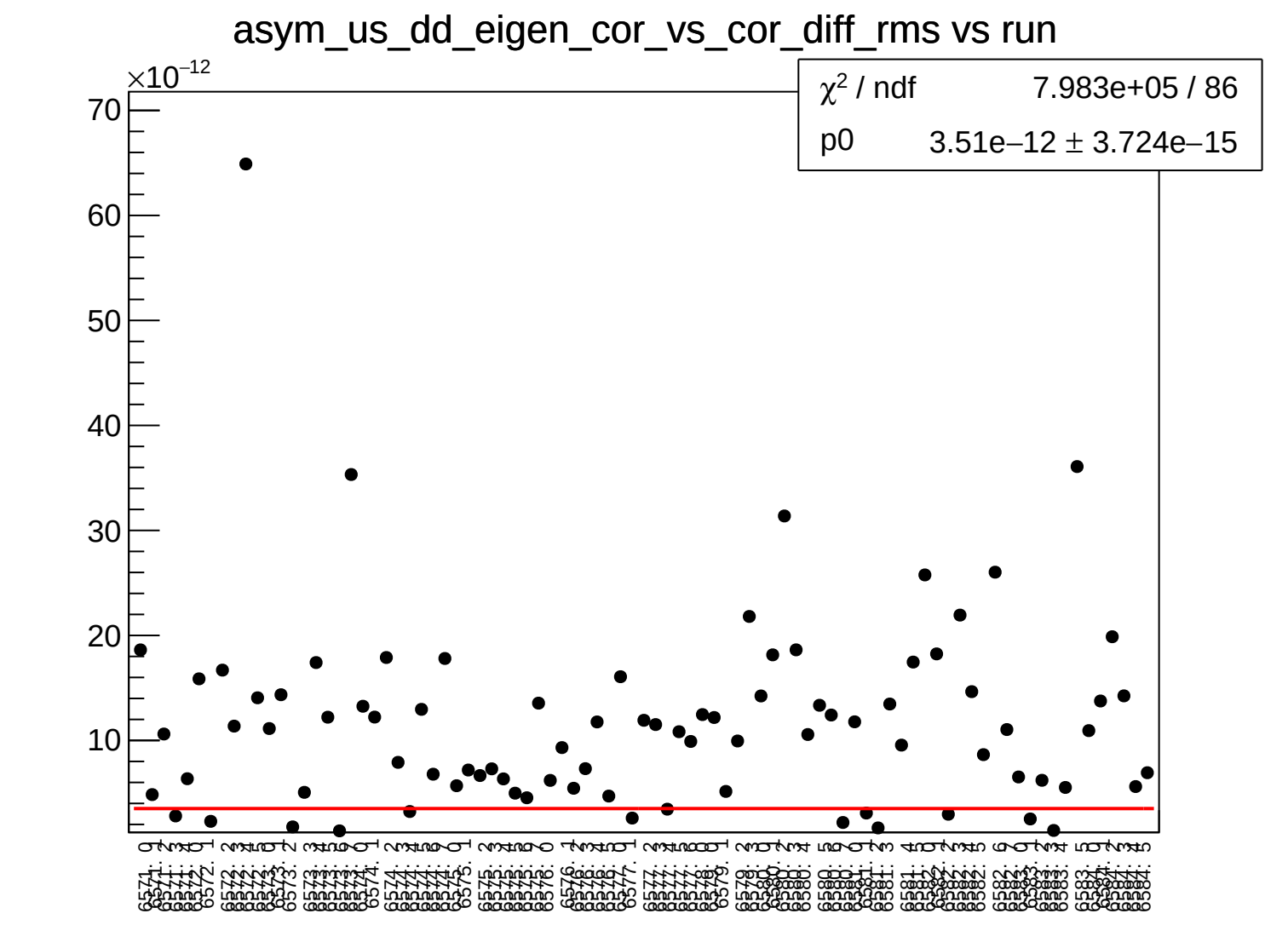

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.342e+05 / 86
p0 29.12 ± 0.02416
90
80
70
60
50
40
30
20
10

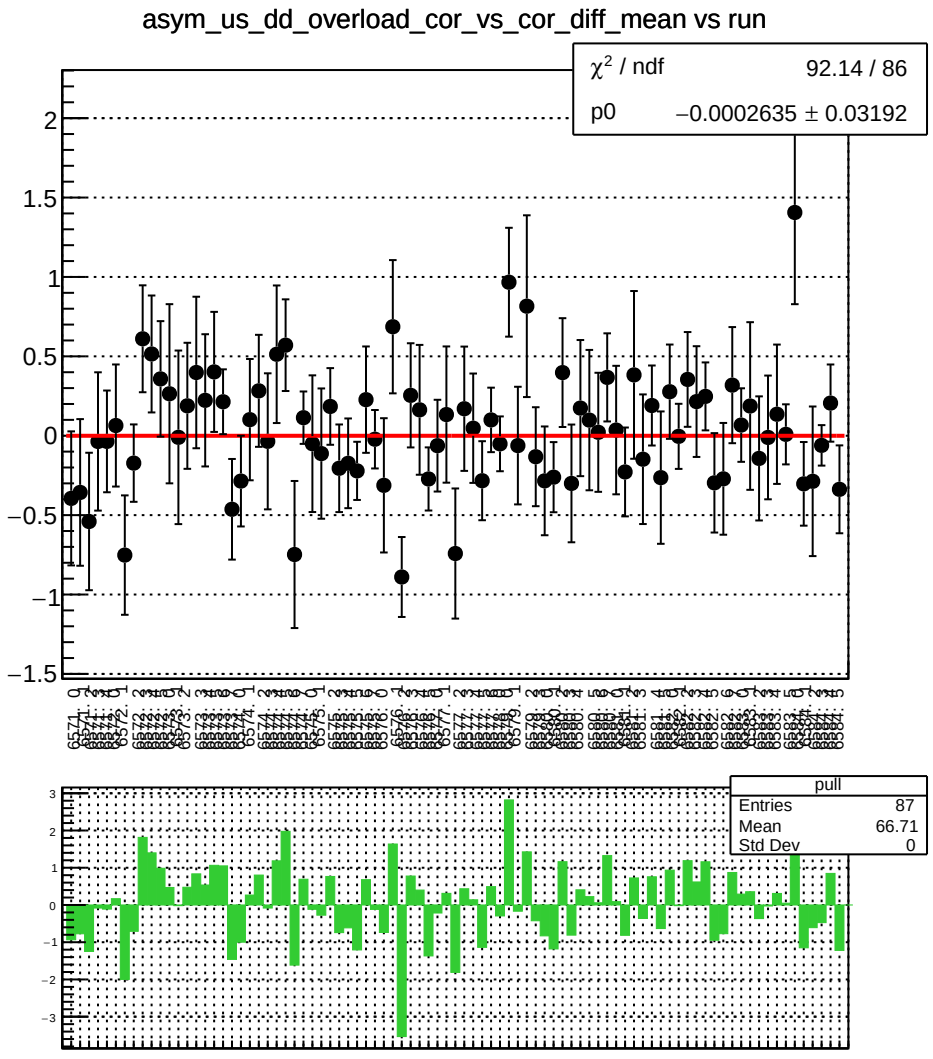

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.83 / 86
p0 0.002037 ± 0.05142
pull
Entries 87
Mean 27.08
Std Dev 48.81
pull1D
Entries 87
Mean −0.02654
Std Dev 0.9271

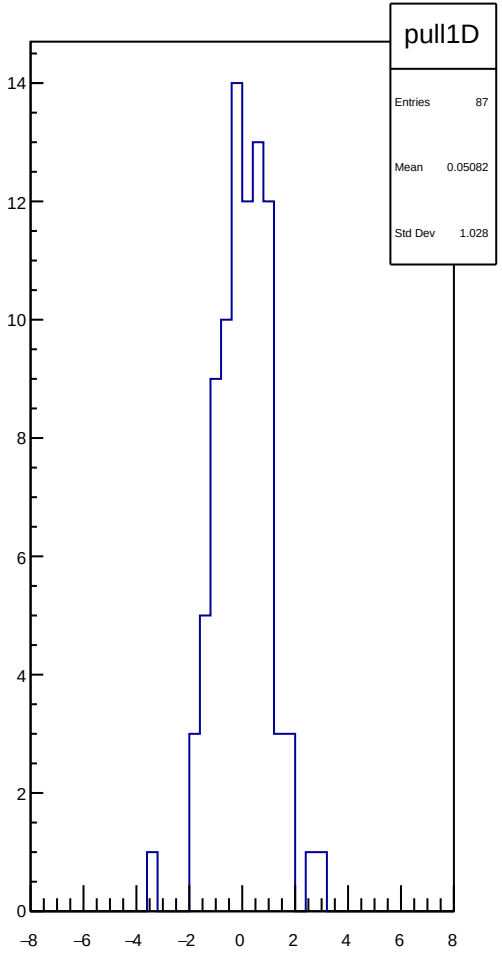

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.205e+05 / 86
p0 45.5 ± 0.03636
110
100
90
80
70
60
50
40
30
20

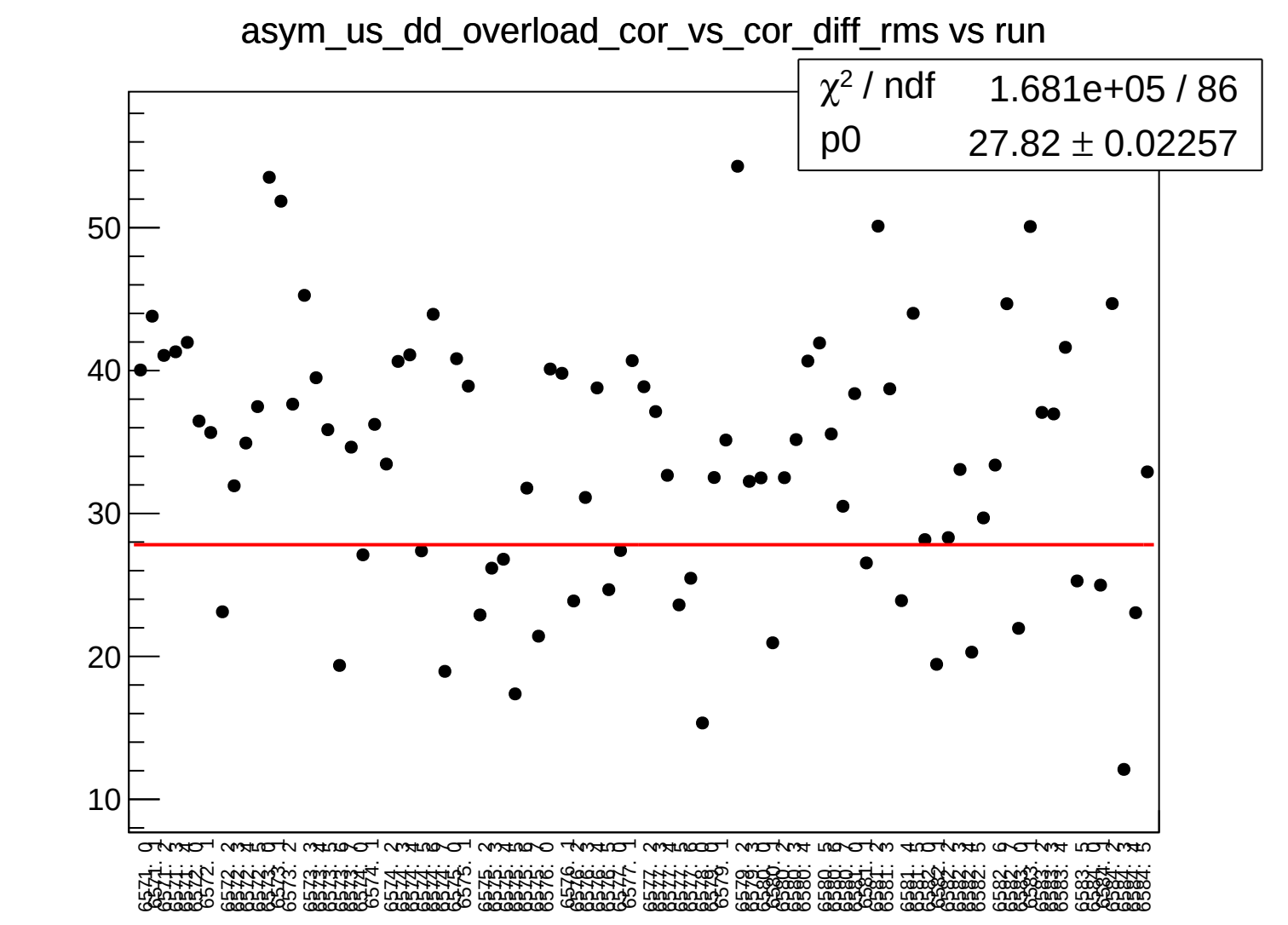

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.13 / 86
p0 −3.488e−15 ± 5.267e−15
pull
Entries 87
Mean 46.12
Std Dev 10.47

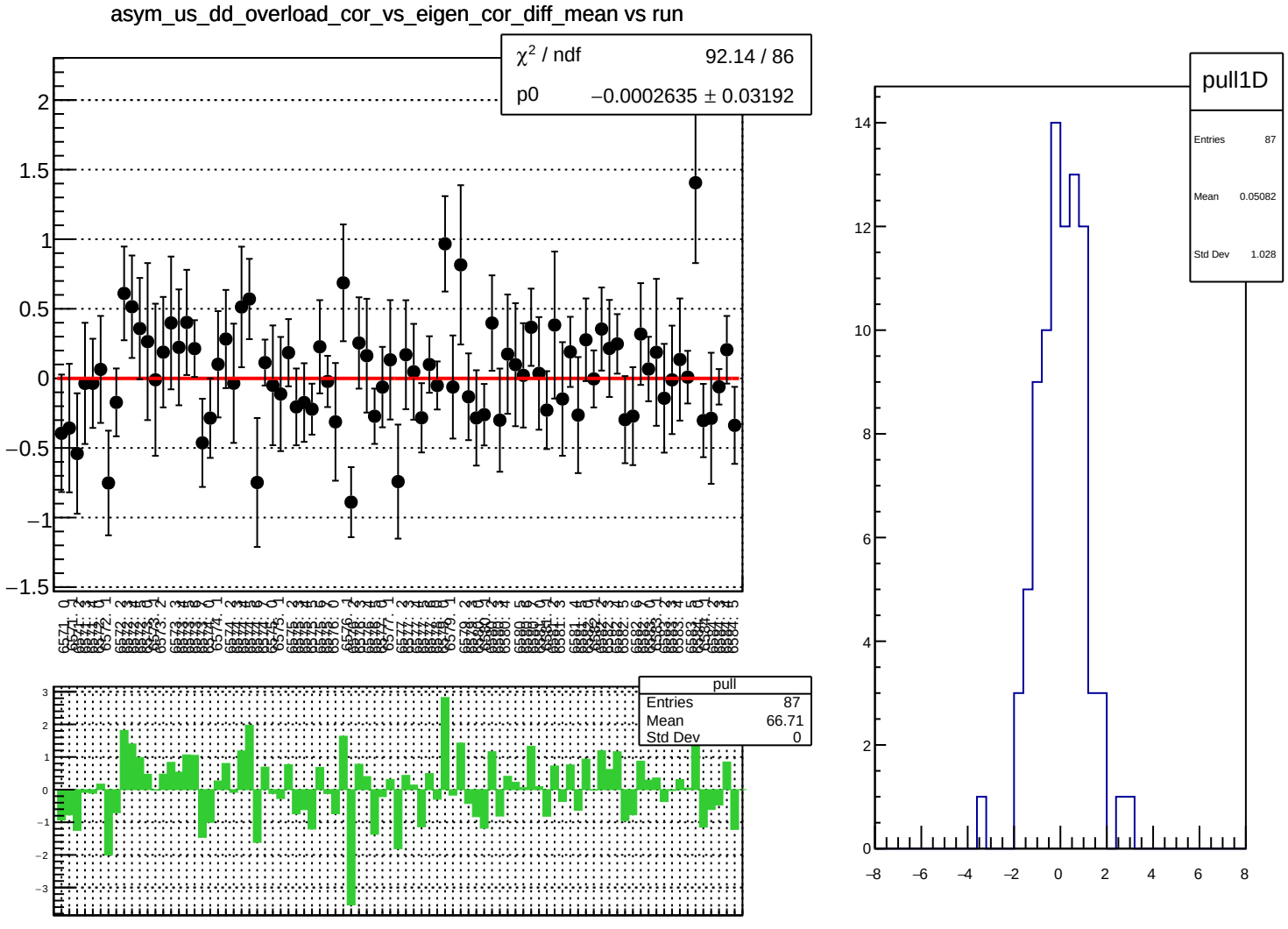

pull1D
Entries 87
Mean 0.08459
Std Dev 0.9192

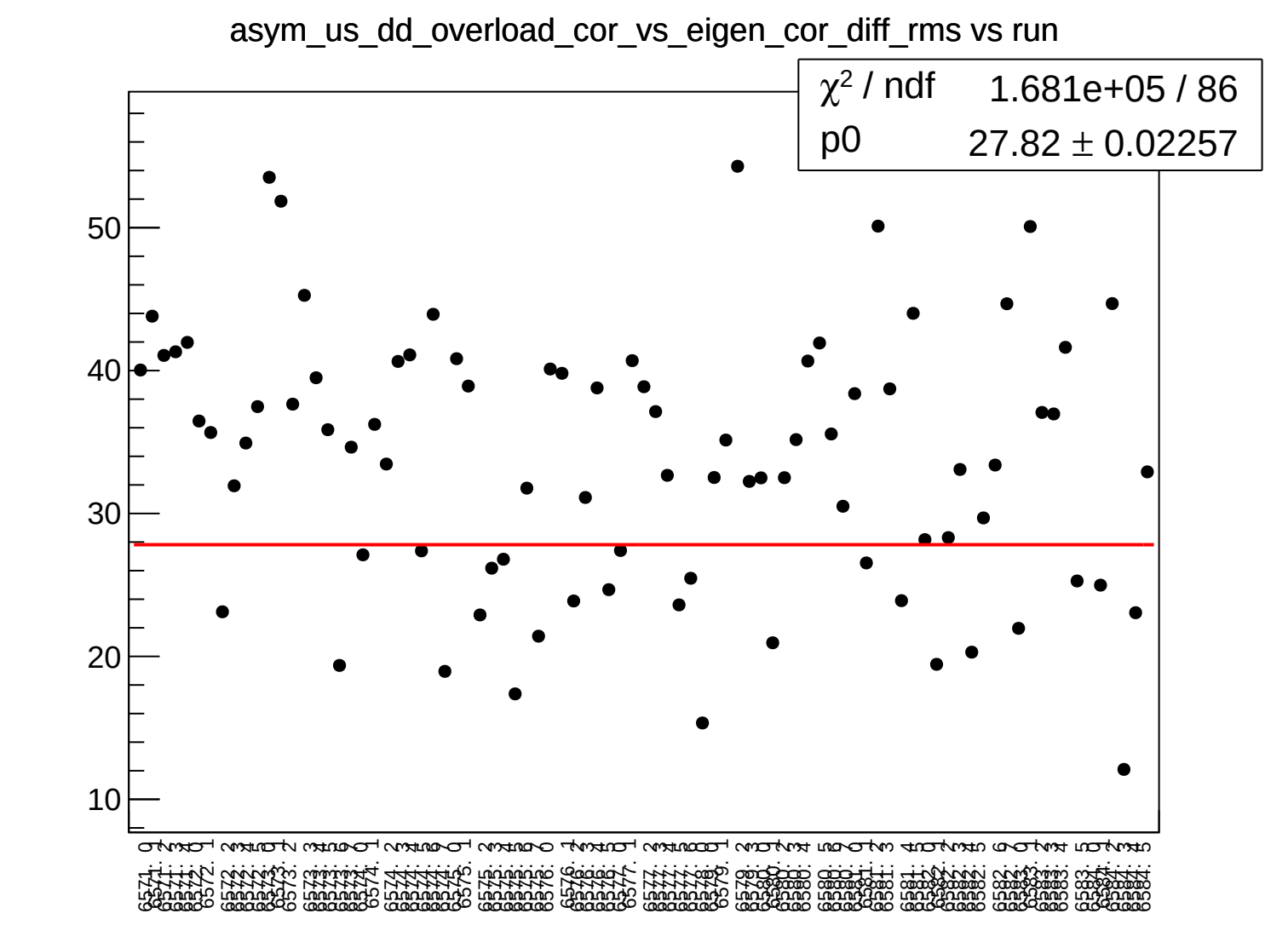

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 7.983e+05 / 86
p0 3.51e−12 ± 3.724e−15

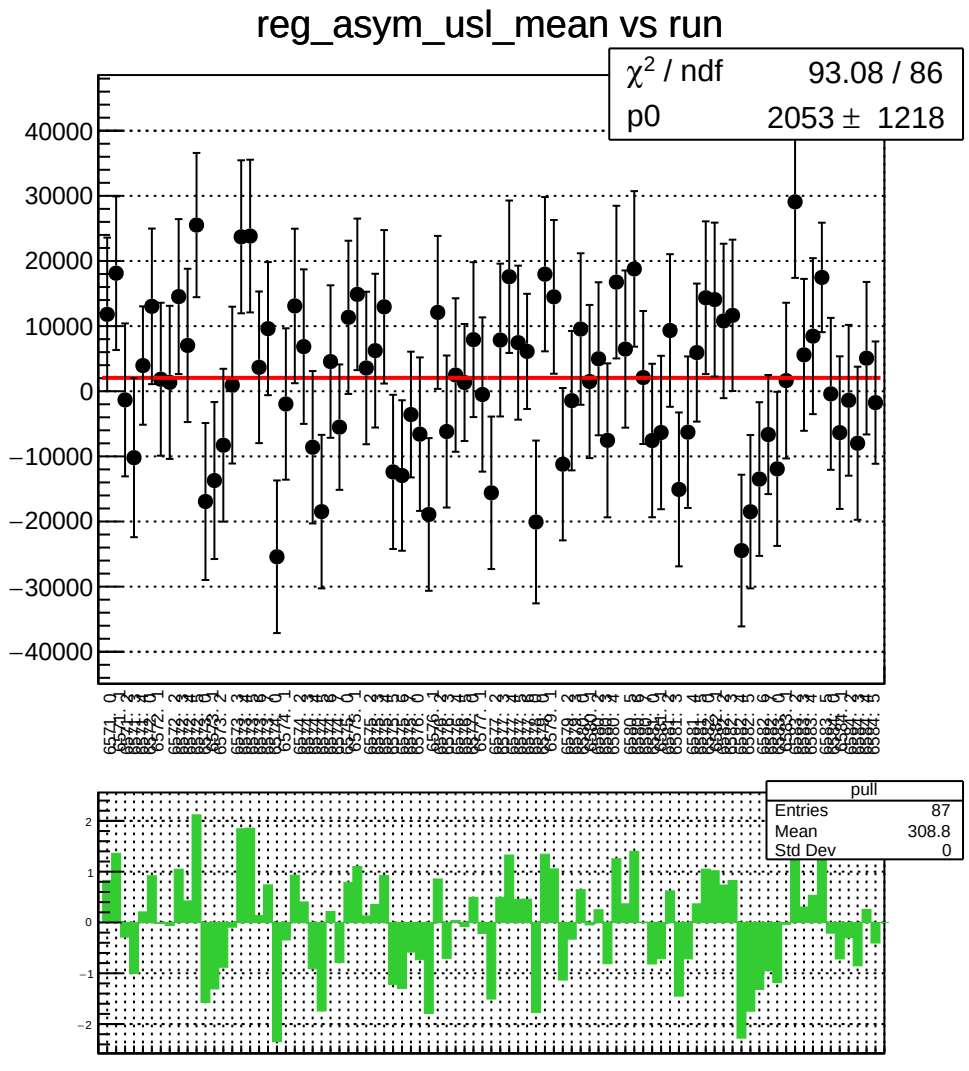

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 92.14 / 86
p0 −0.0002635 ± 0.03192
pull
Entries 87
Mean 66.71
Std Dev 0

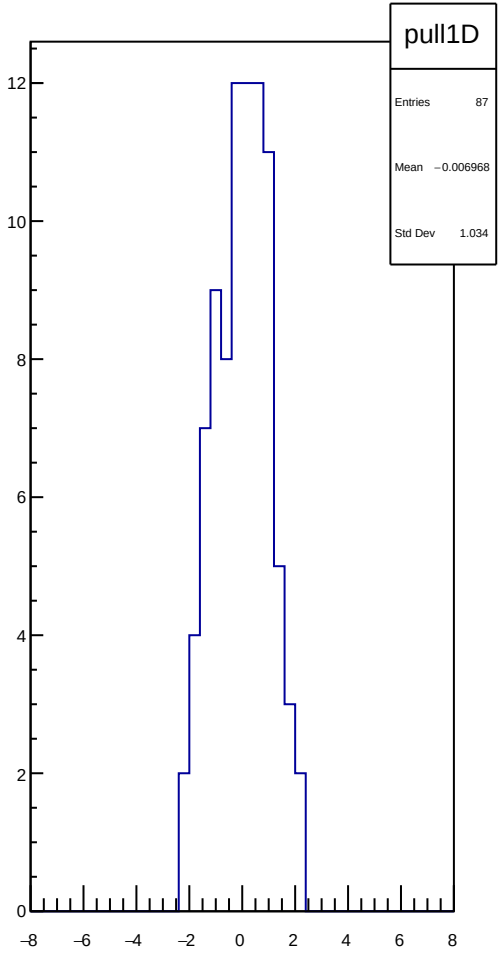

pull1D
Entries 87
Mean 0.05082
Std Dev 1.028

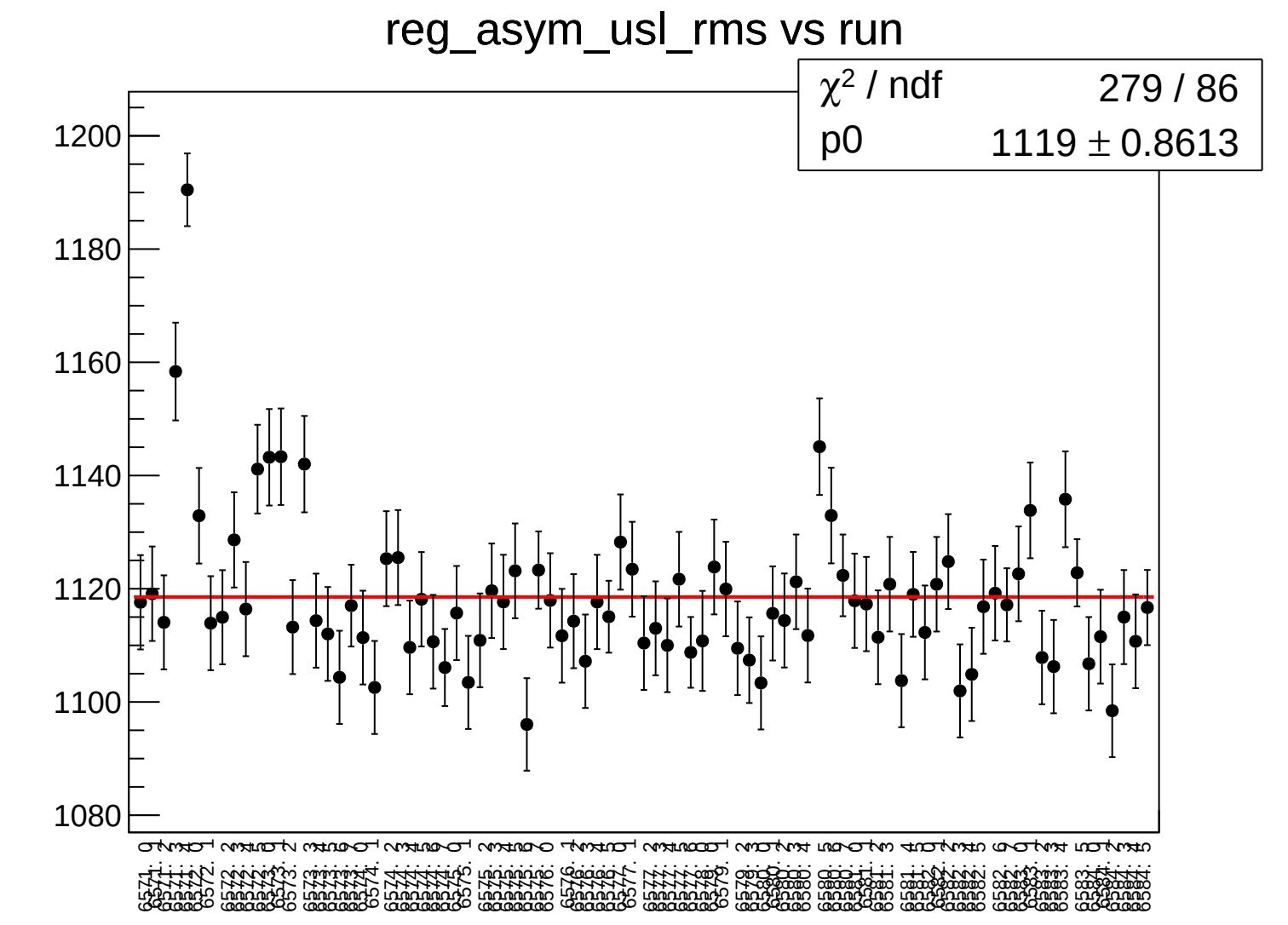

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.681e+05 / 86
p0 27.82 ± 0.02257
50
40
30
20
10

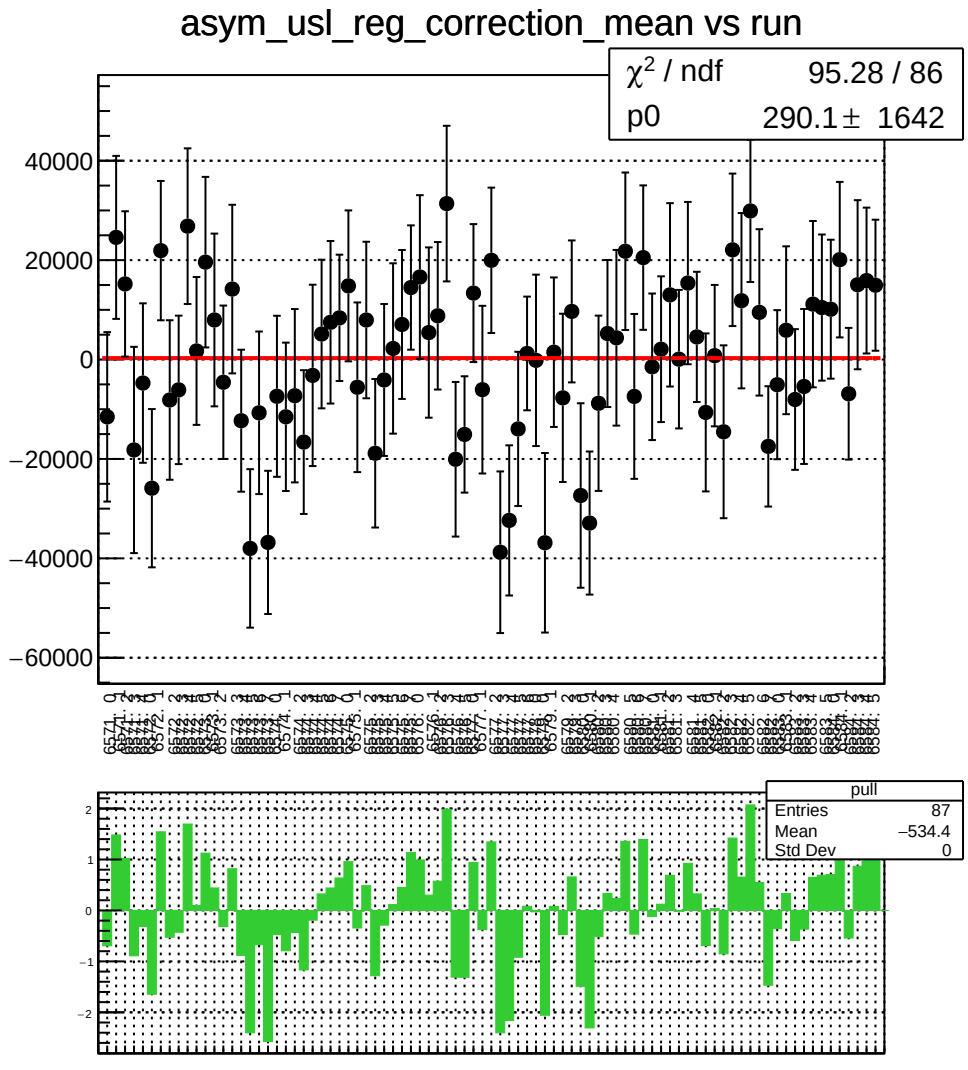

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.14 / 86
p0 −0.0002635 ± 0.03192
pull
Entries 87
Mean 66.71
Std Dev 0
pull1D
Entries 87
Mean 0.05082
Std Dev 1.028

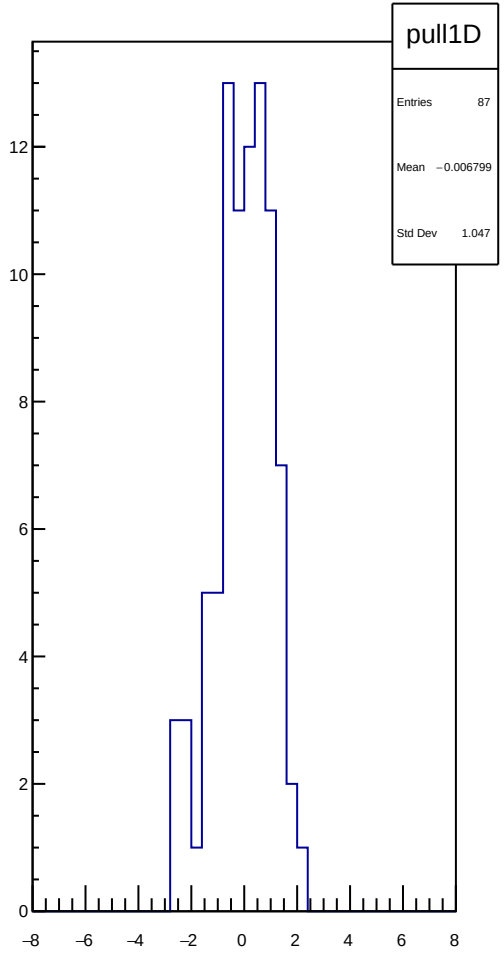

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.681e+05 / 86
p0 27.82 ± 0.02257
50
40
30
20
10

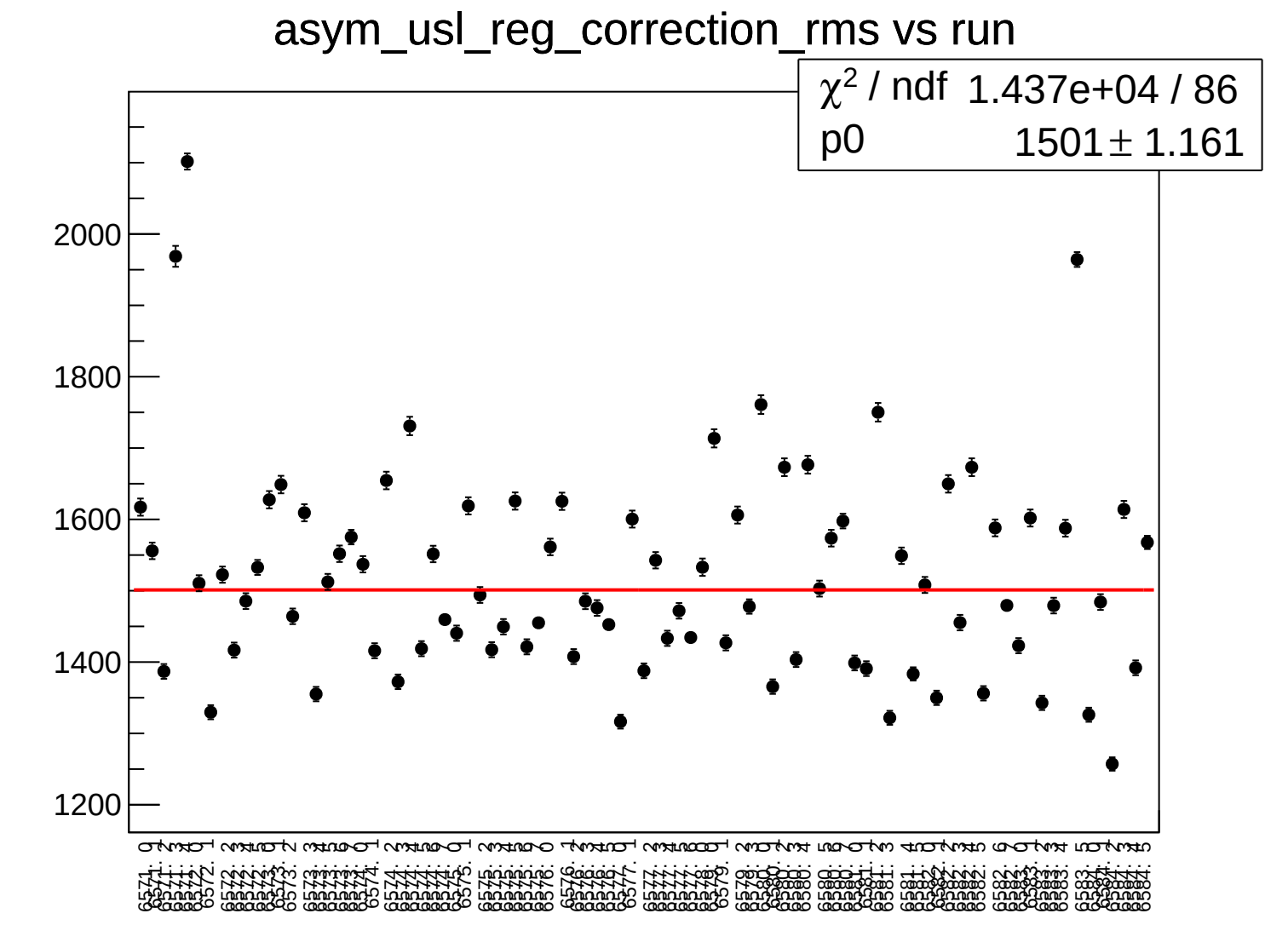

reg_asym_usl_mean vs run
χ² / ndf 93.08 / 86
p0 2053 ± 1218
pull
Entries 87
Mean 308.8
Std Dev 0

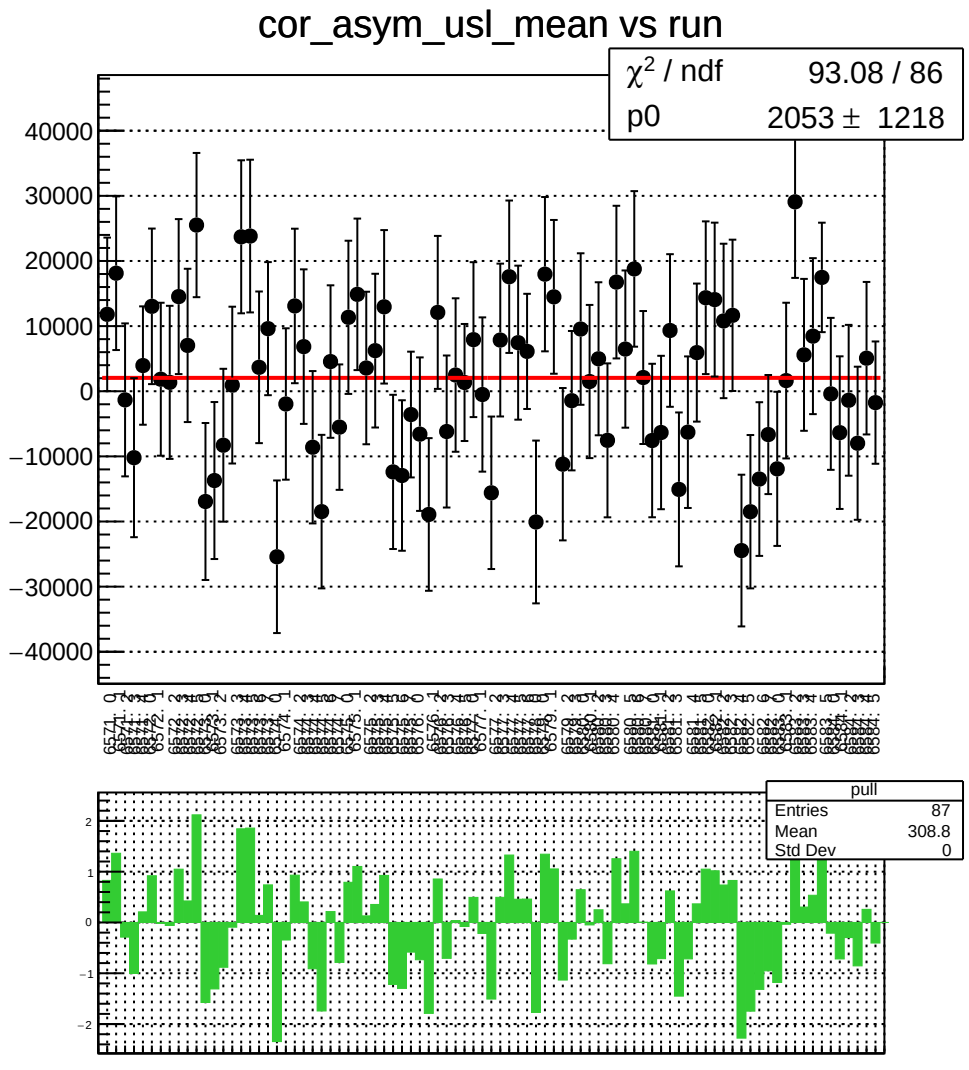

pull1D
Entries 87
Mean −0.006968
Std Dev 1.034

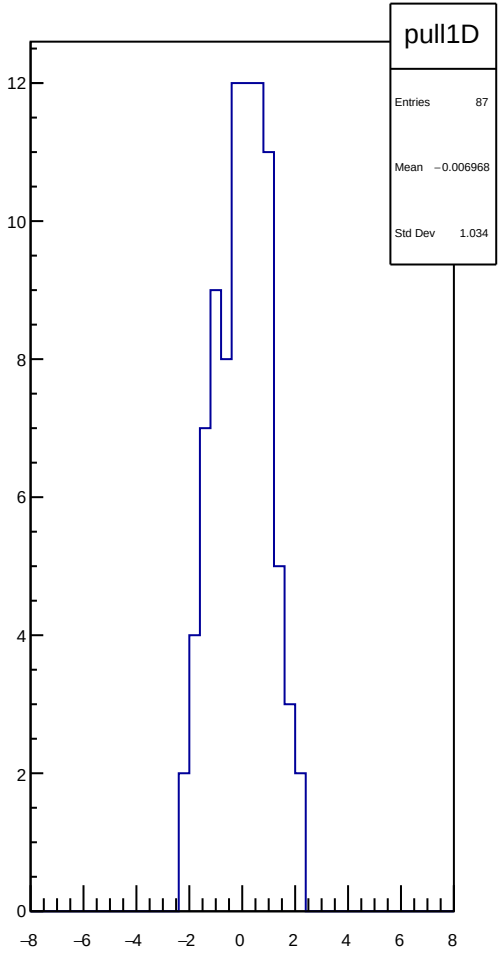

reg_asym_usl_rms vs run
χ² / ndf 279 / 86
p0 1119 ± 0.8613
1200
1180
1160
1140
1120
1100
1080

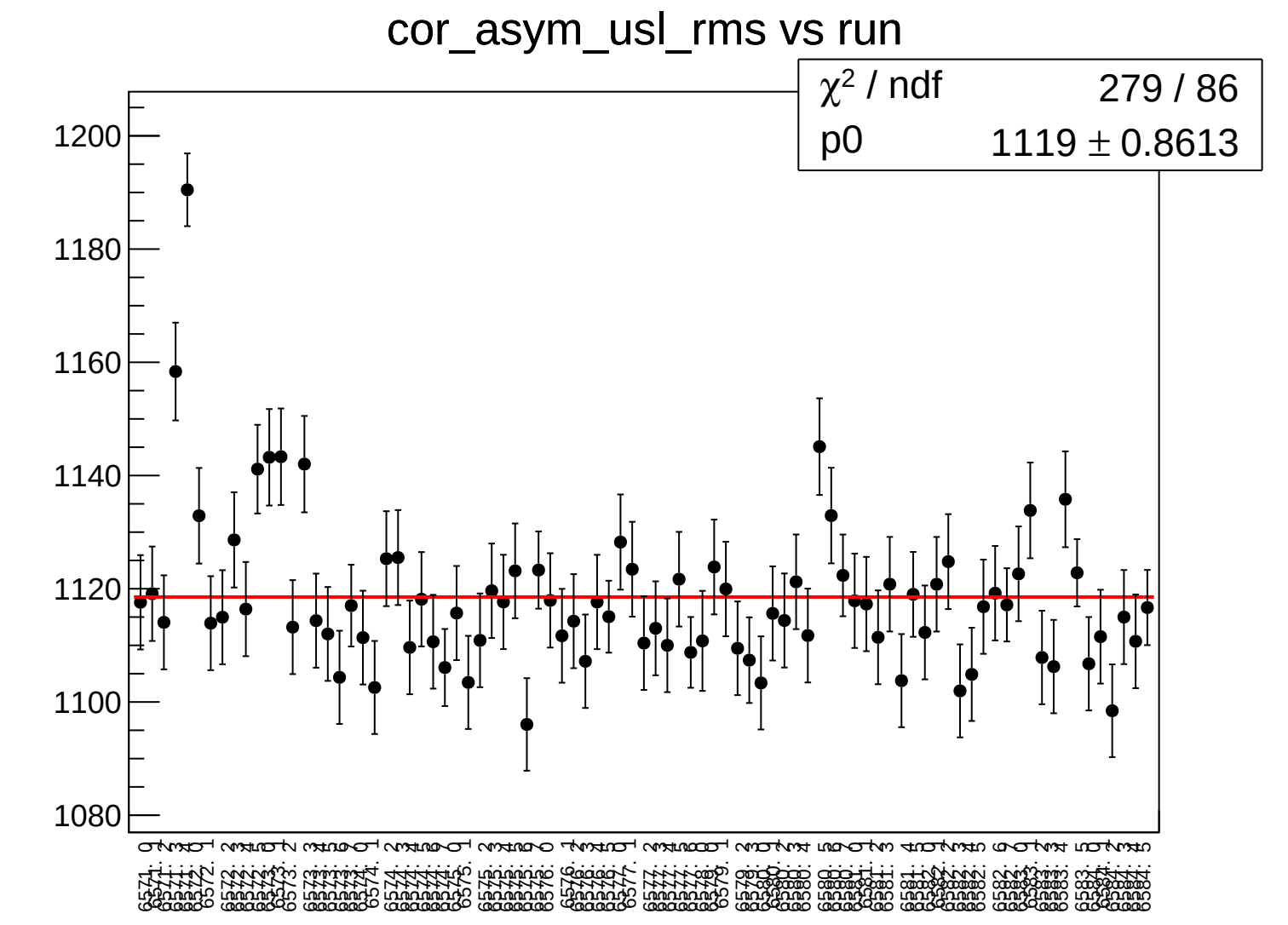

asym_usl_reg_correction_mean vs run
χ² / ndf 95.28 / 86
p0 290.1 ± 1642
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −534.4
Std Dev 0
2
1
0
−1
−2

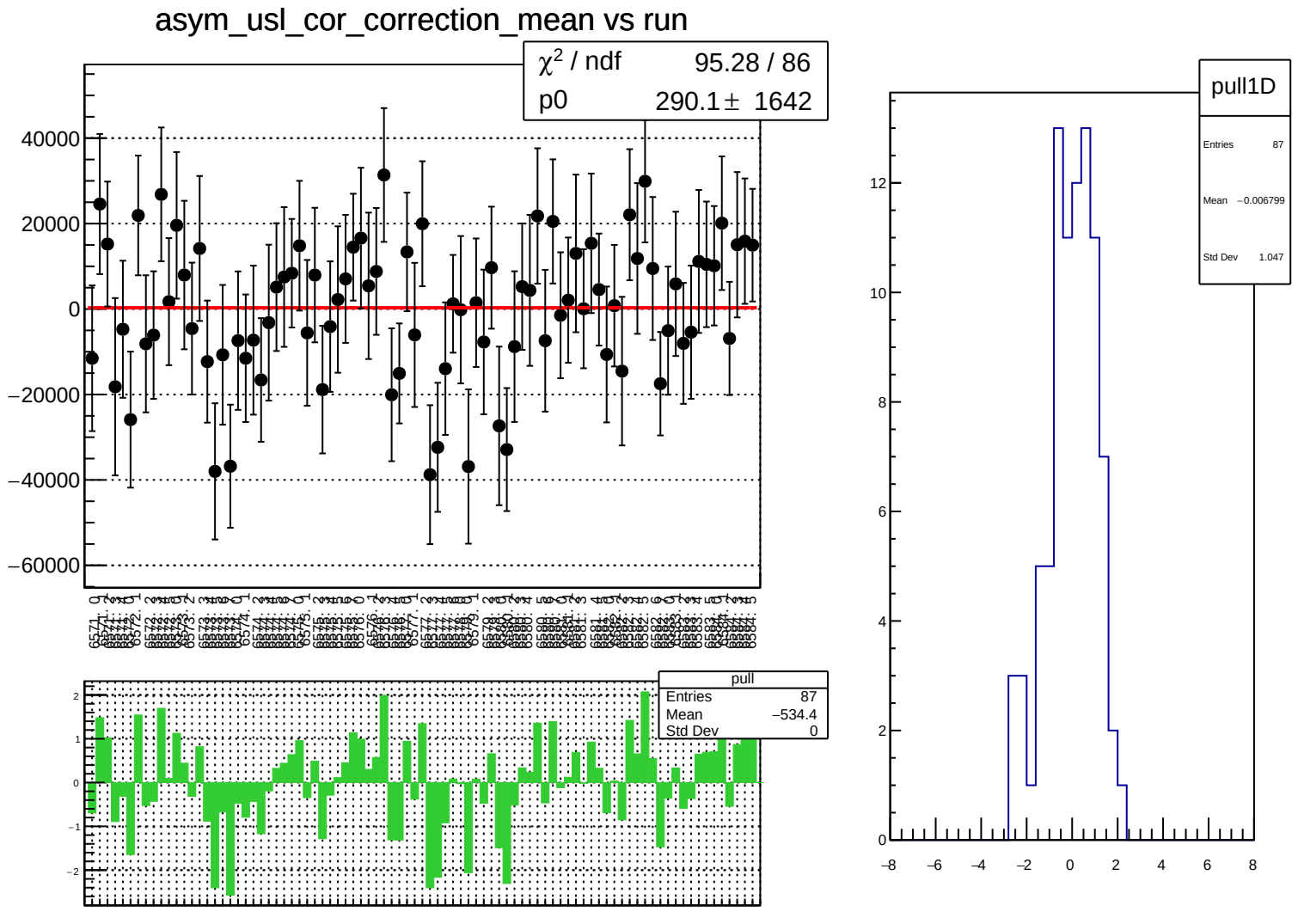

pull1D
Entries 87
Mean −0.006799
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

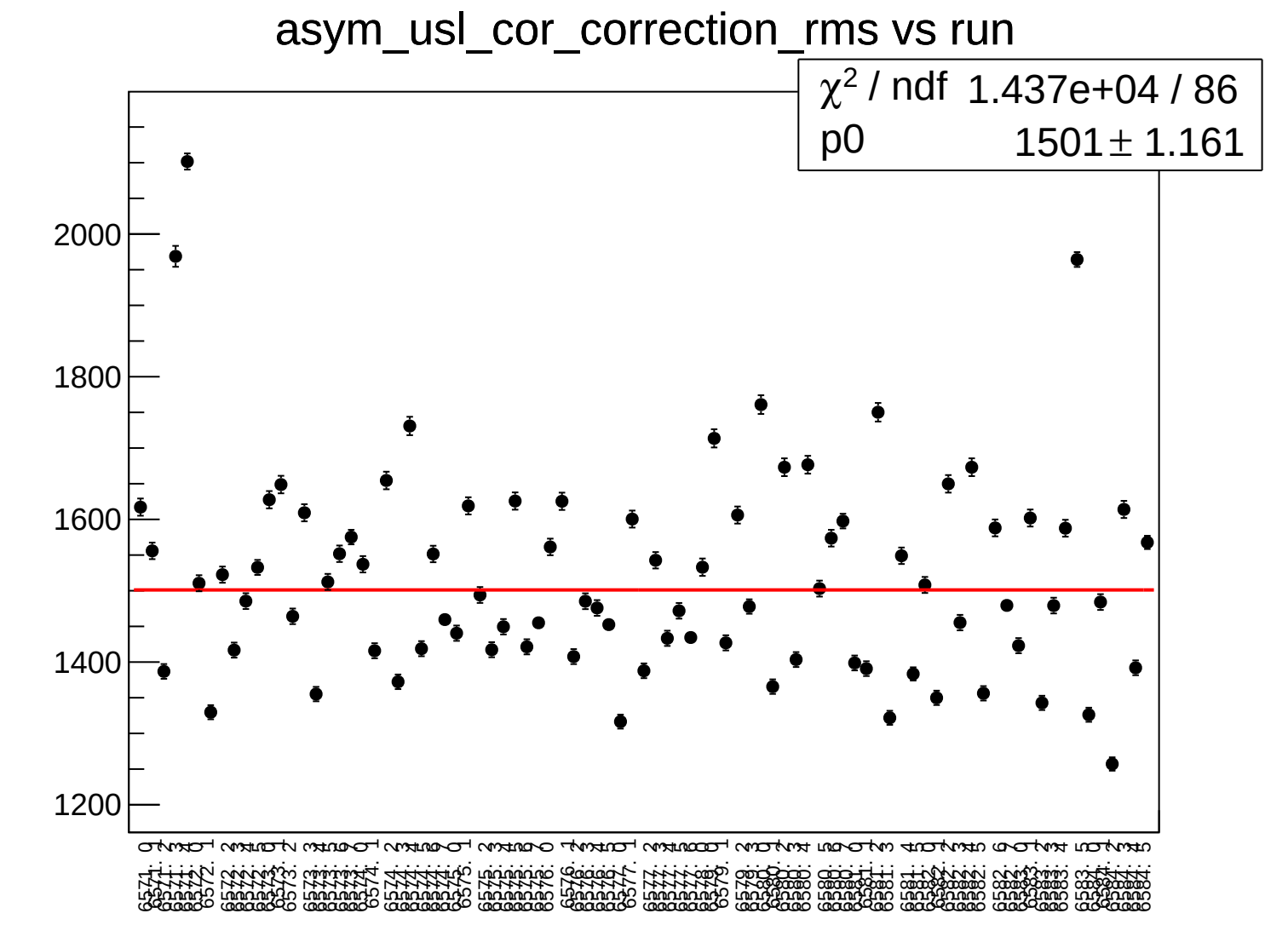

asym_usl_reg_correction_rms vs run
χ² / ndf 1.437e+04 / 86
p0 1501 ± 1.161
2000
1800
1600
1400
1200

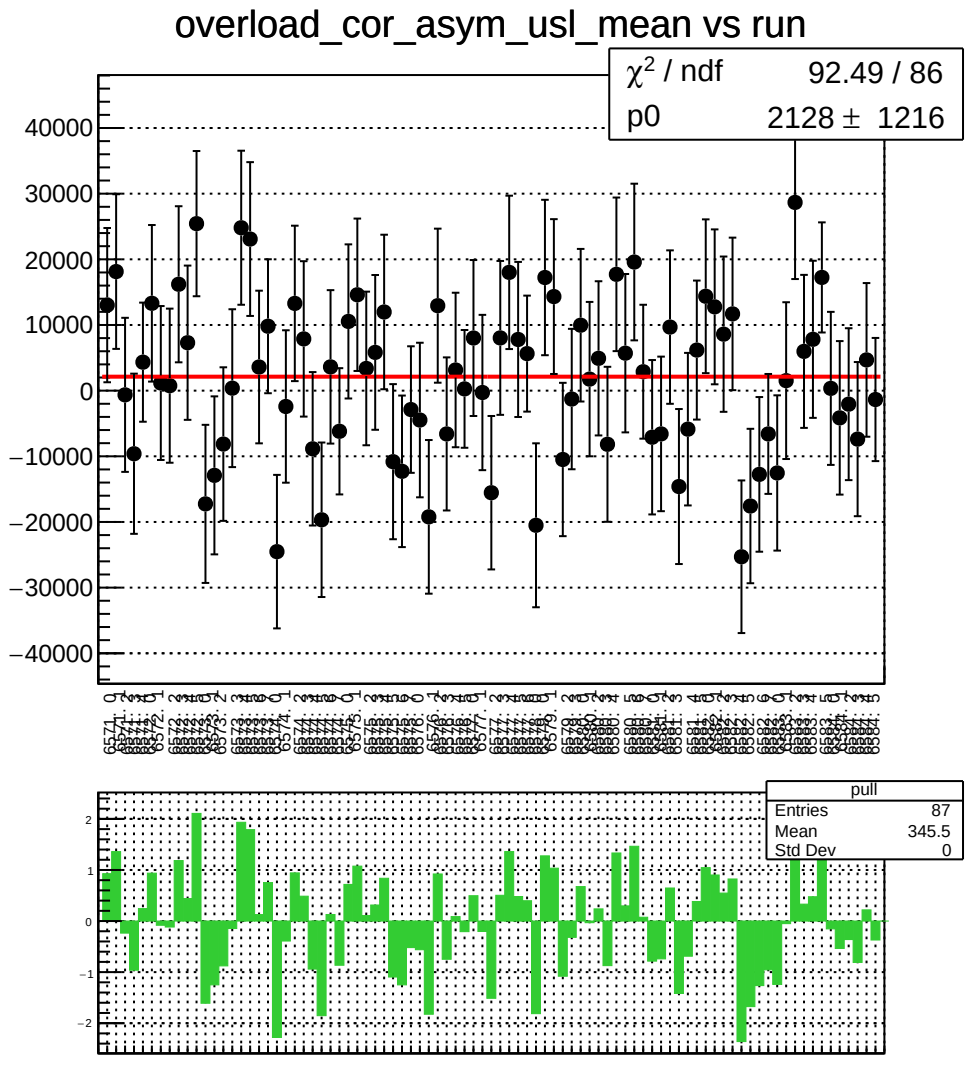

cor_asym_usl_mean vs run
χ² / ndf 93.08 / 86
p0 2053 ± 1218
pull
Entries 87
Mean 308.8
Std Dev 0

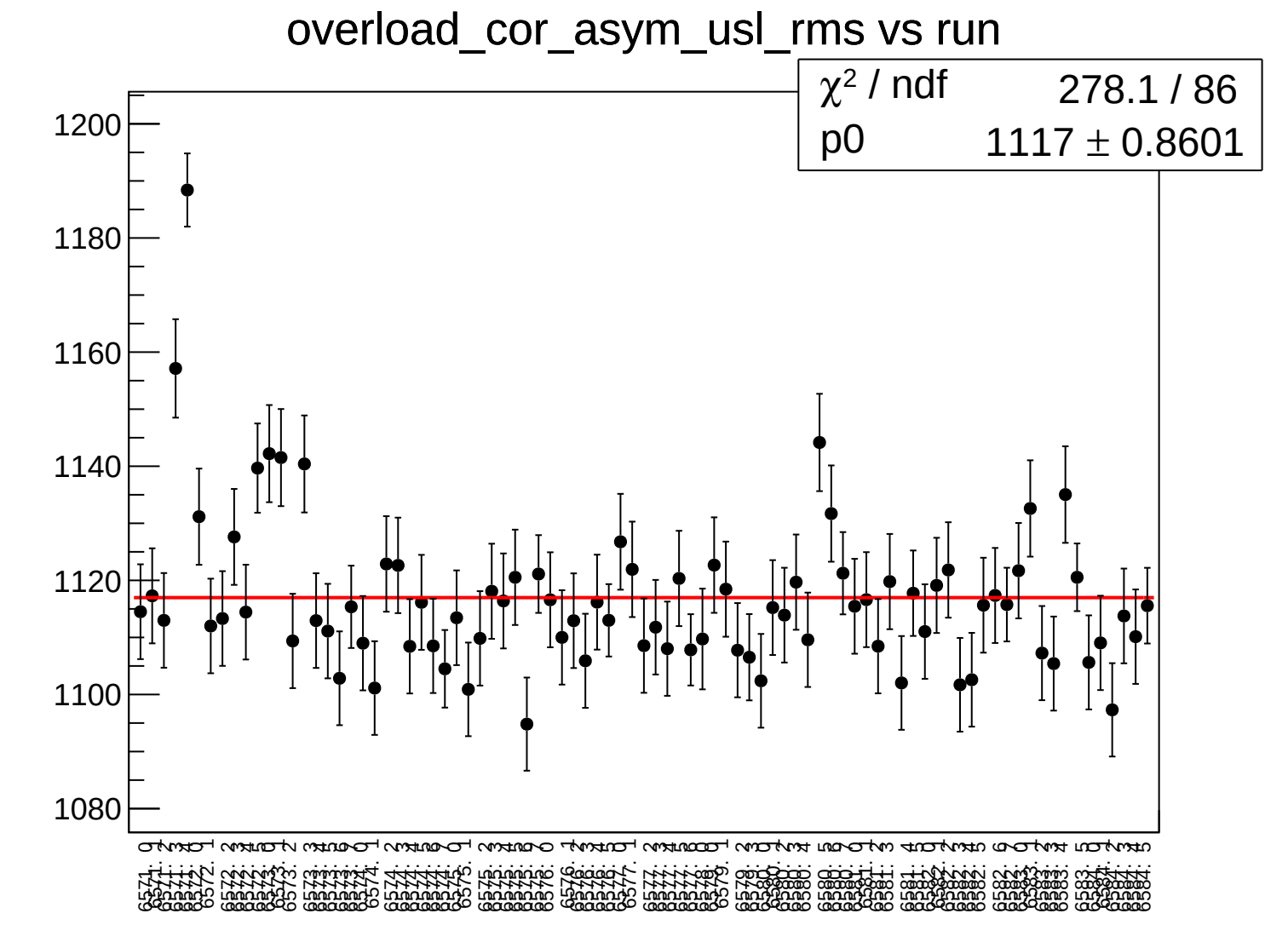

pull1D
Entries 87
Mean −0.006968
Std Dev 1.034

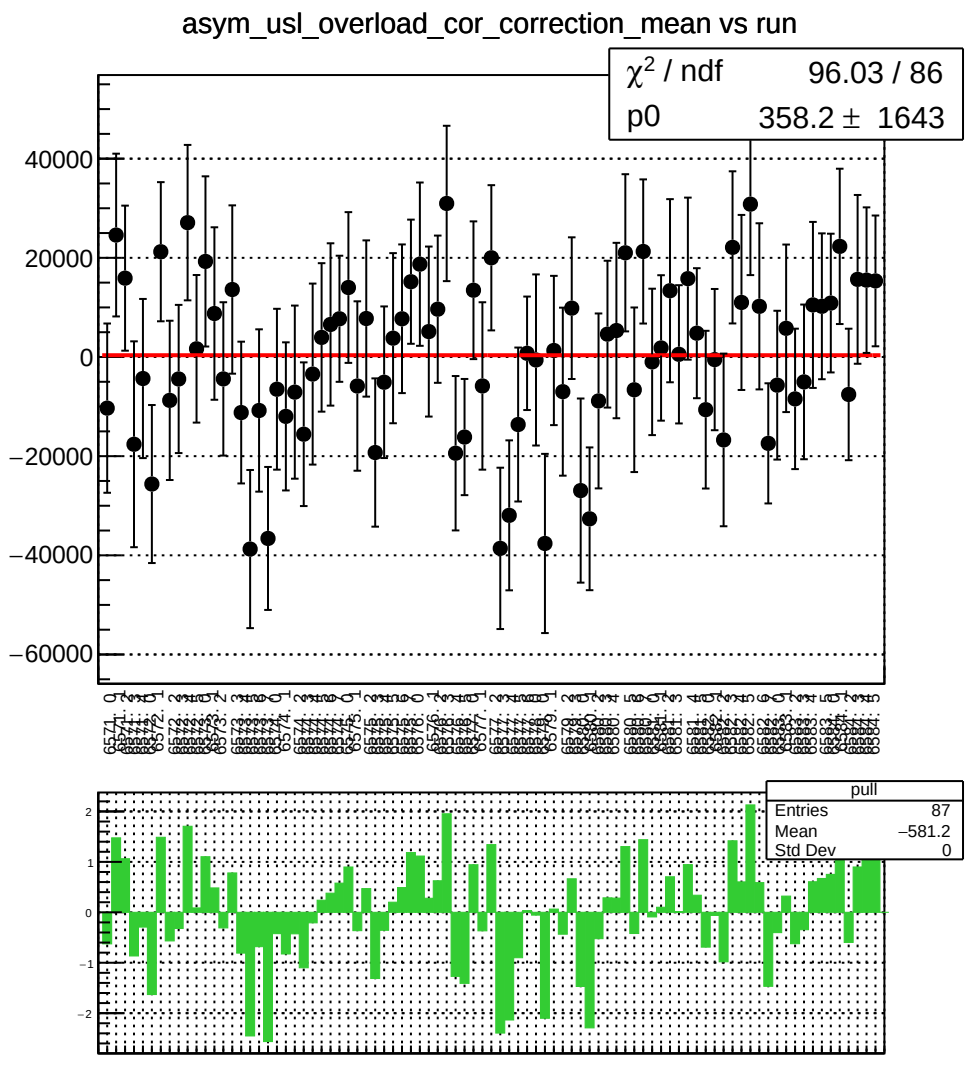

cor_asym_usl_rms vs run
χ² / ndf 279 / 86
p0 1119 ± 0.8613
1200
1180
1160
1140
1120
1100
1080

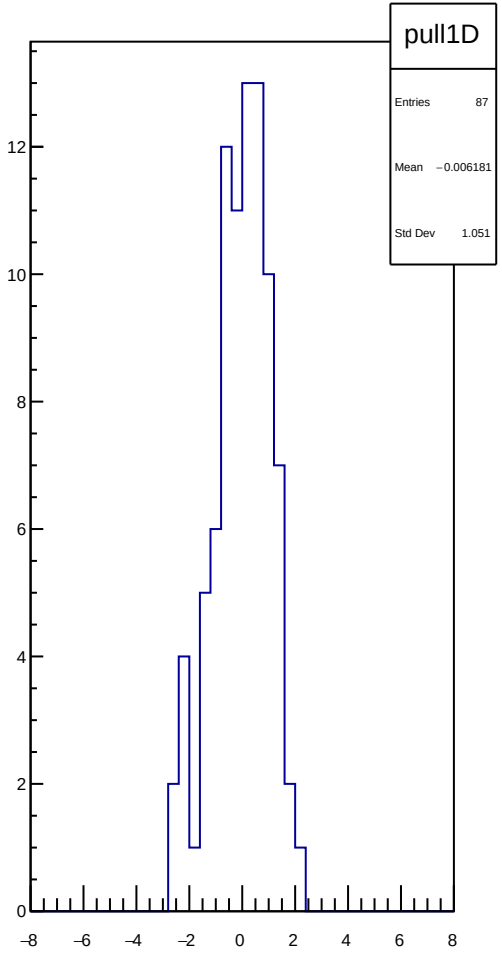

asym_usl_cor_correction_mean vs run
χ² / ndf 95.28 / 86
p0 290.1 ± 1642
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −534.4
Std Dev 0
pull1D
Entries 87
Mean −0.006799
Std Dev 1.047

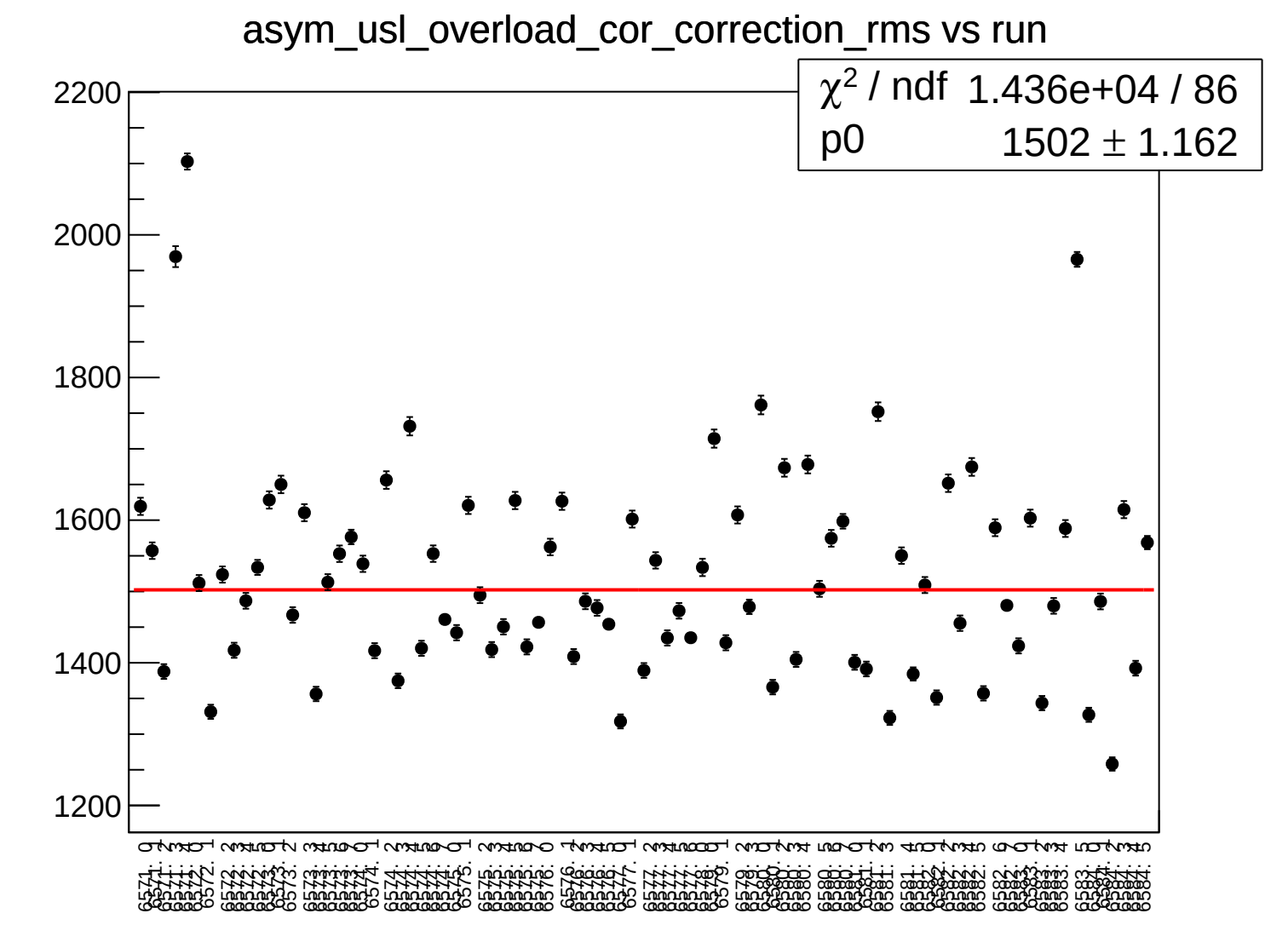

asym_usl_cor_correction_rms vs run
χ² / ndf 1.437e+04 / 86
p0 1501 ± 1.161
2000
1800
1600
1400
1200

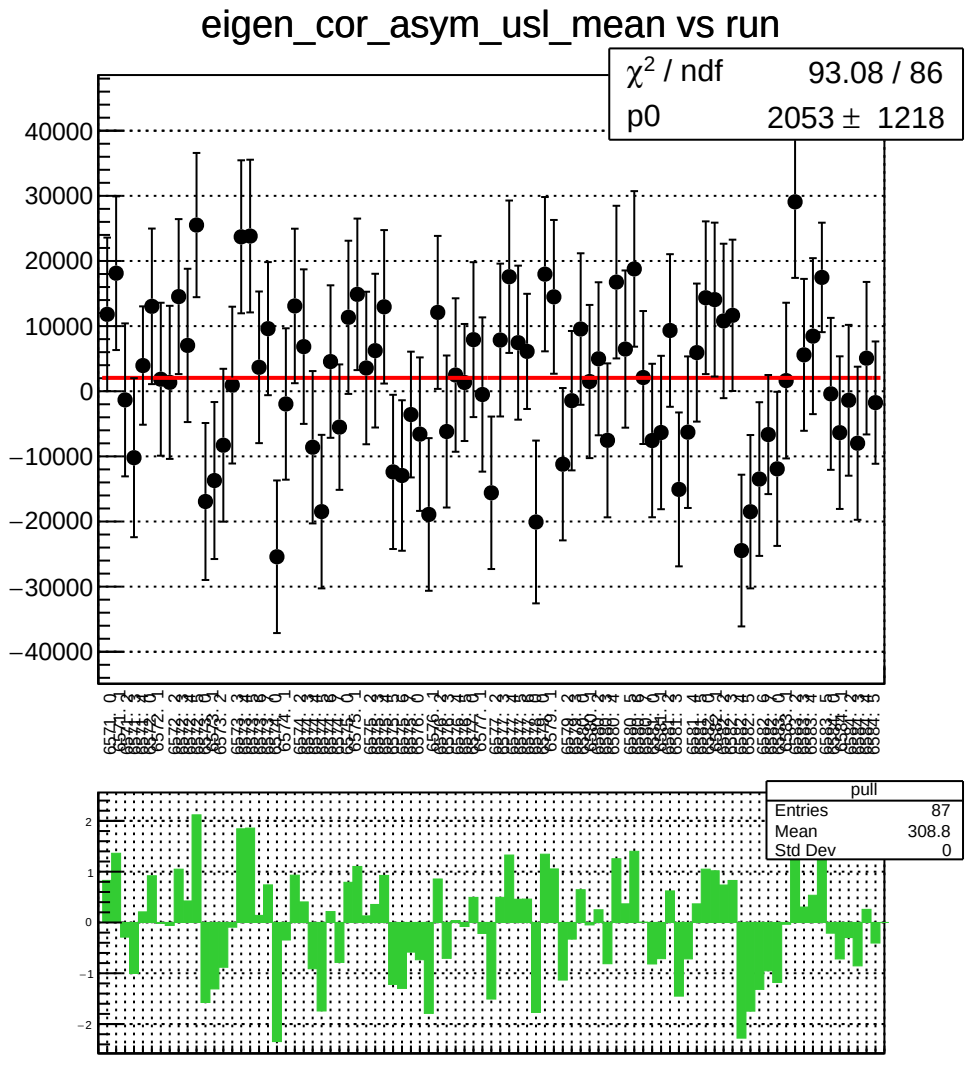

overload_cor_asym_usl_mean vs run
χ² / ndf 92.49 / 86
p0 2128 ± 1216
pull
Entries 87
Mean 345.5
Std Dev 0
pull1D
Entries 87
Mean −0.006444
Std Dev 1.031

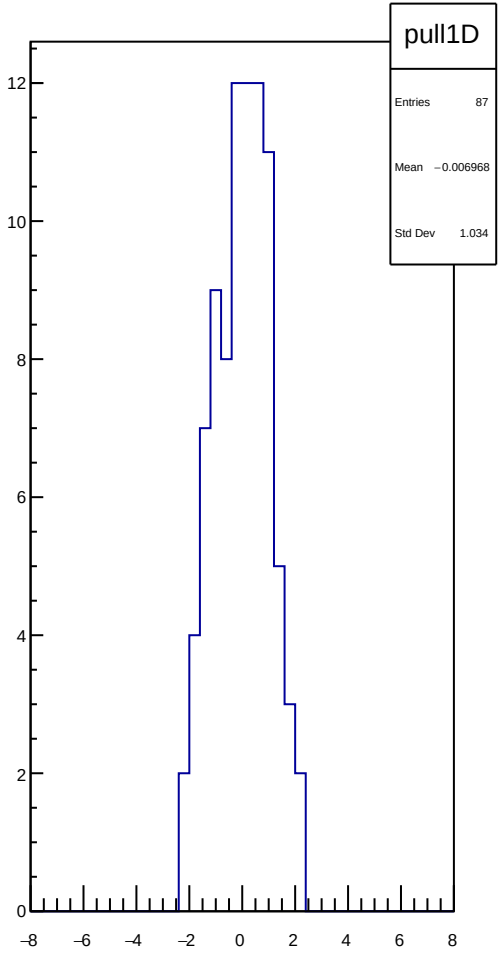

overload_cor_asym_usl_rms vs run
χ² / ndf 278.1 / 86
p0 1117 ± 0.8601
1200
1180
1160
1140
1120
1100
1080

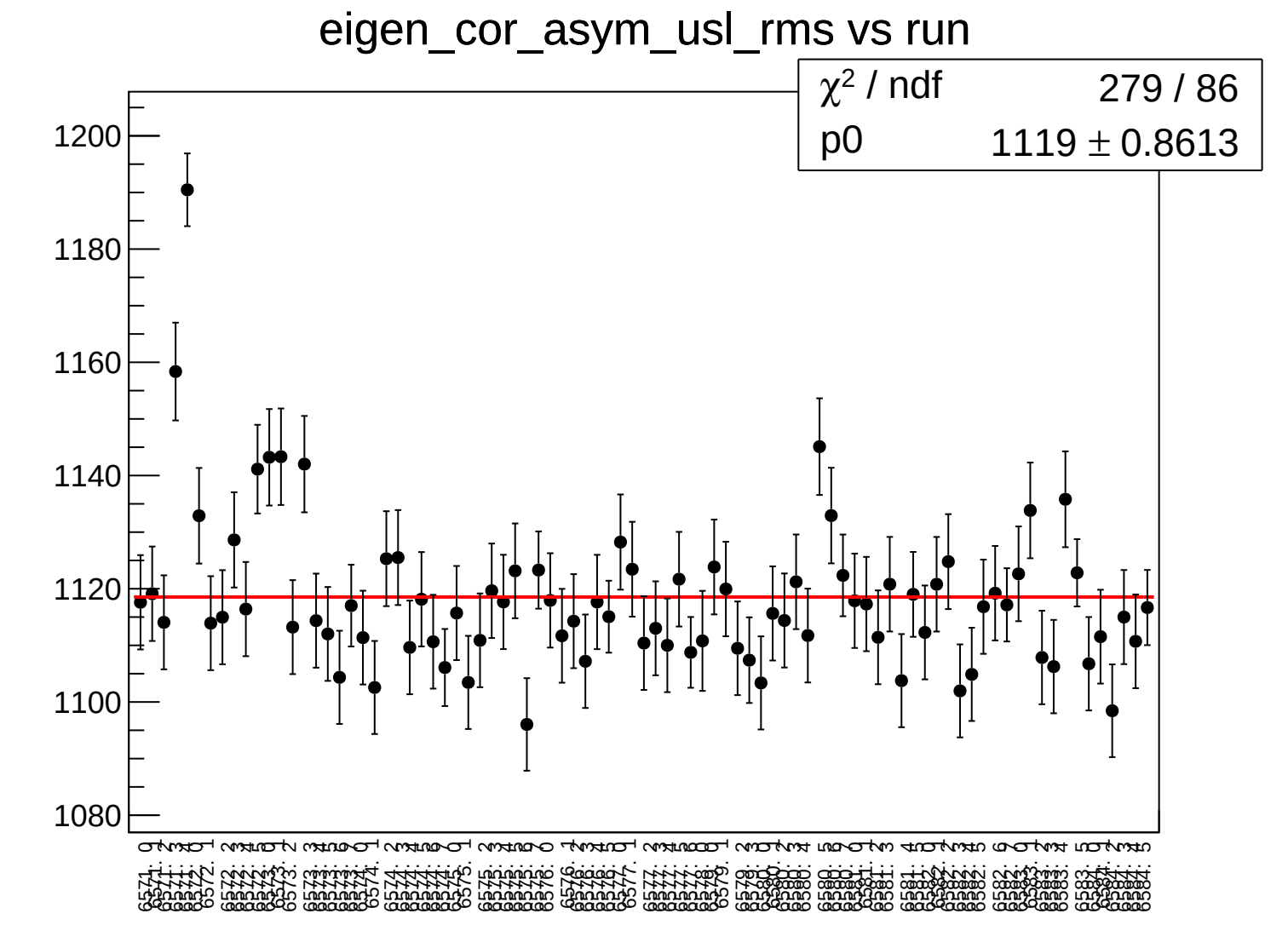

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 96.03 / 86
p0 358.2 ± 1643
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −581.2
Std Dev 0
2
1
0
−1
−2

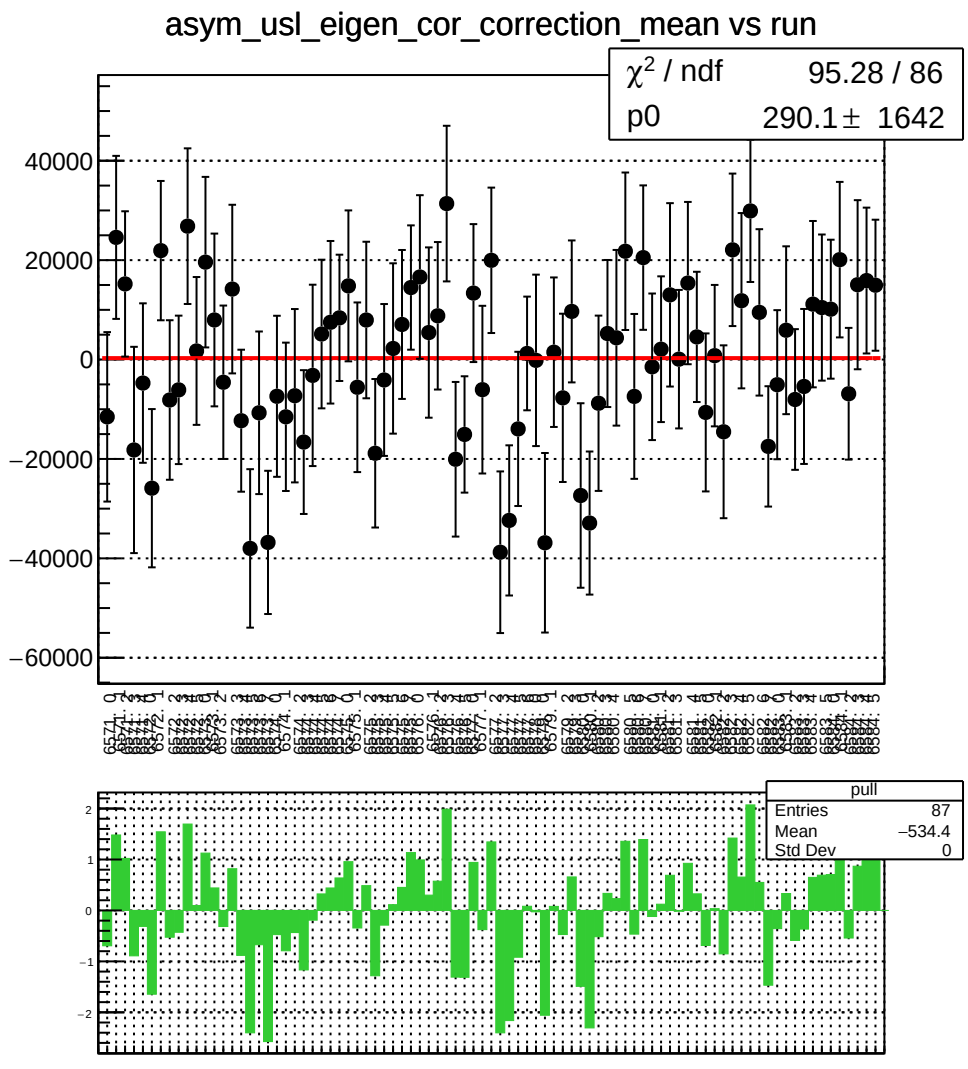

pull1D
Entries 87
Mean −0.006181
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

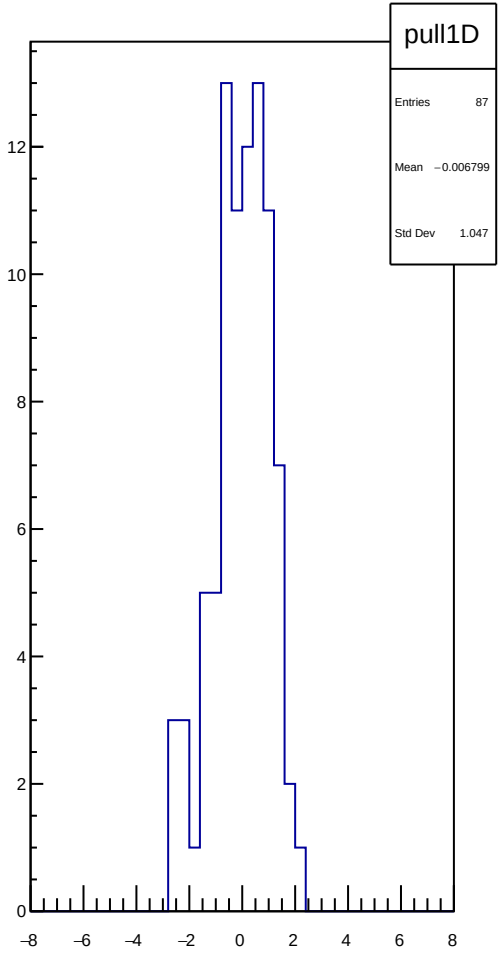

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1.436e+04 / 86
p0 1502 ± 1.162
2200
2000
1800
1600
1400
1200

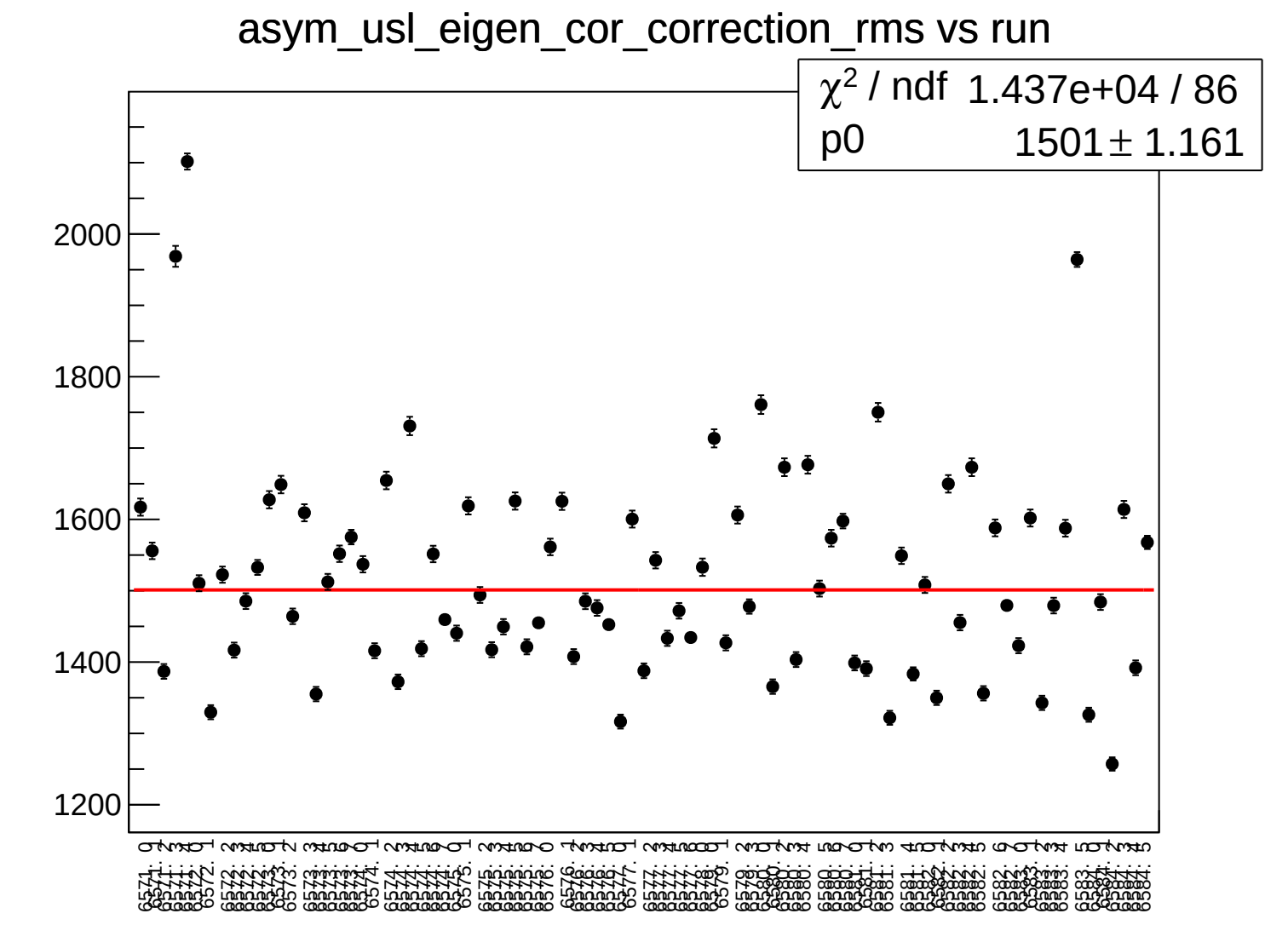

eigen_cor_asym_usl_mean vs run
χ² / ndf 93.08 / 86
p0 2053 ± 1218
pull
Entries 87
Mean 308.8
Std Dev 0

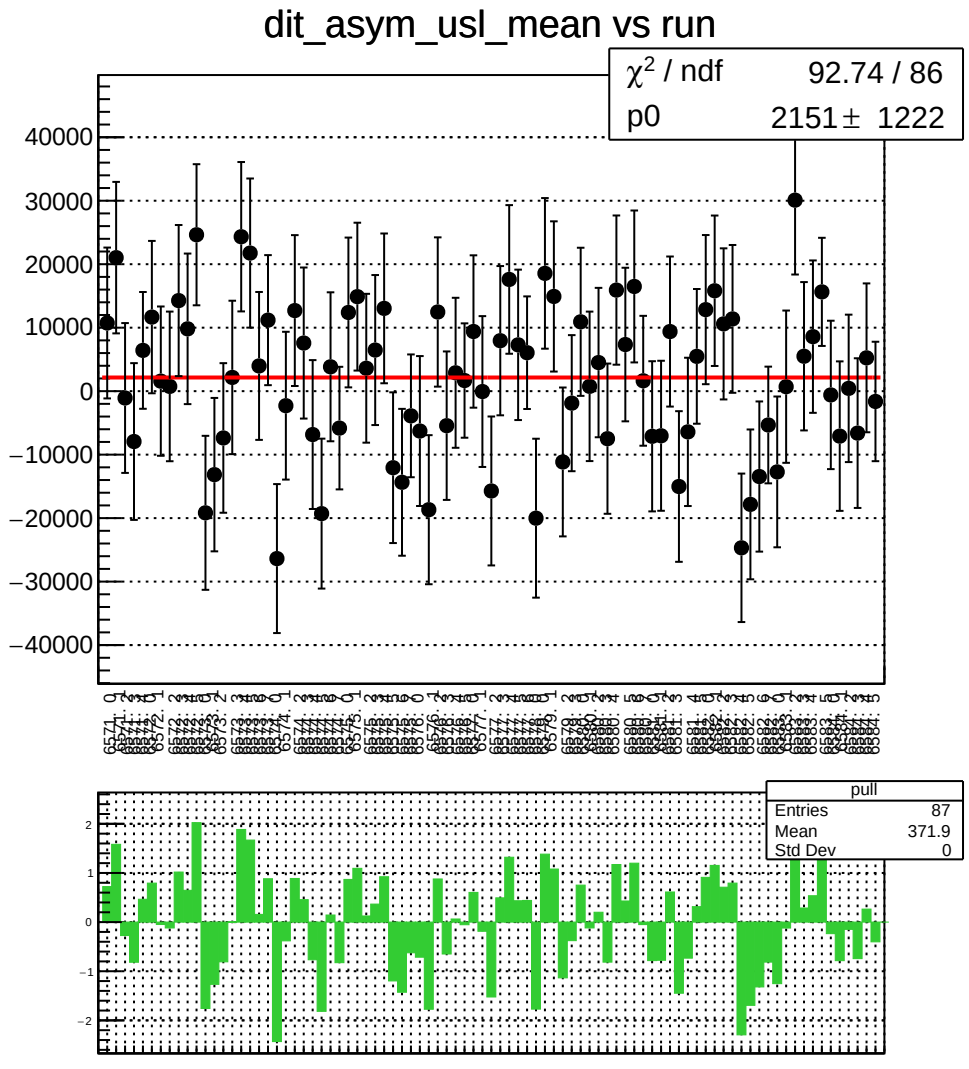

pull1D
Entries 87
Mean −0.006968
Std Dev 1.034

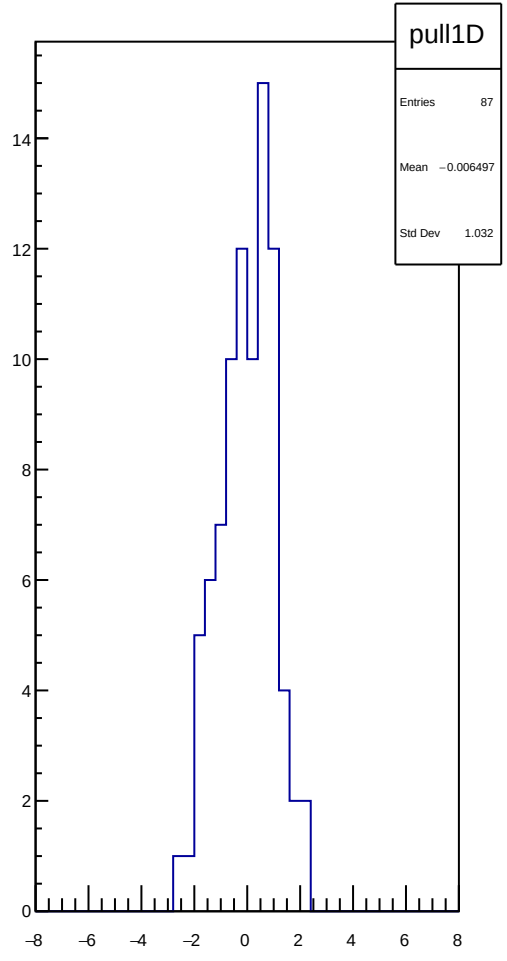

eigen_cor_asym_usl_rms vs run
χ² / ndf 279 / 86
p0 1119 ± 0.8613
1200
1180
1160
1140
1120
1100
1080

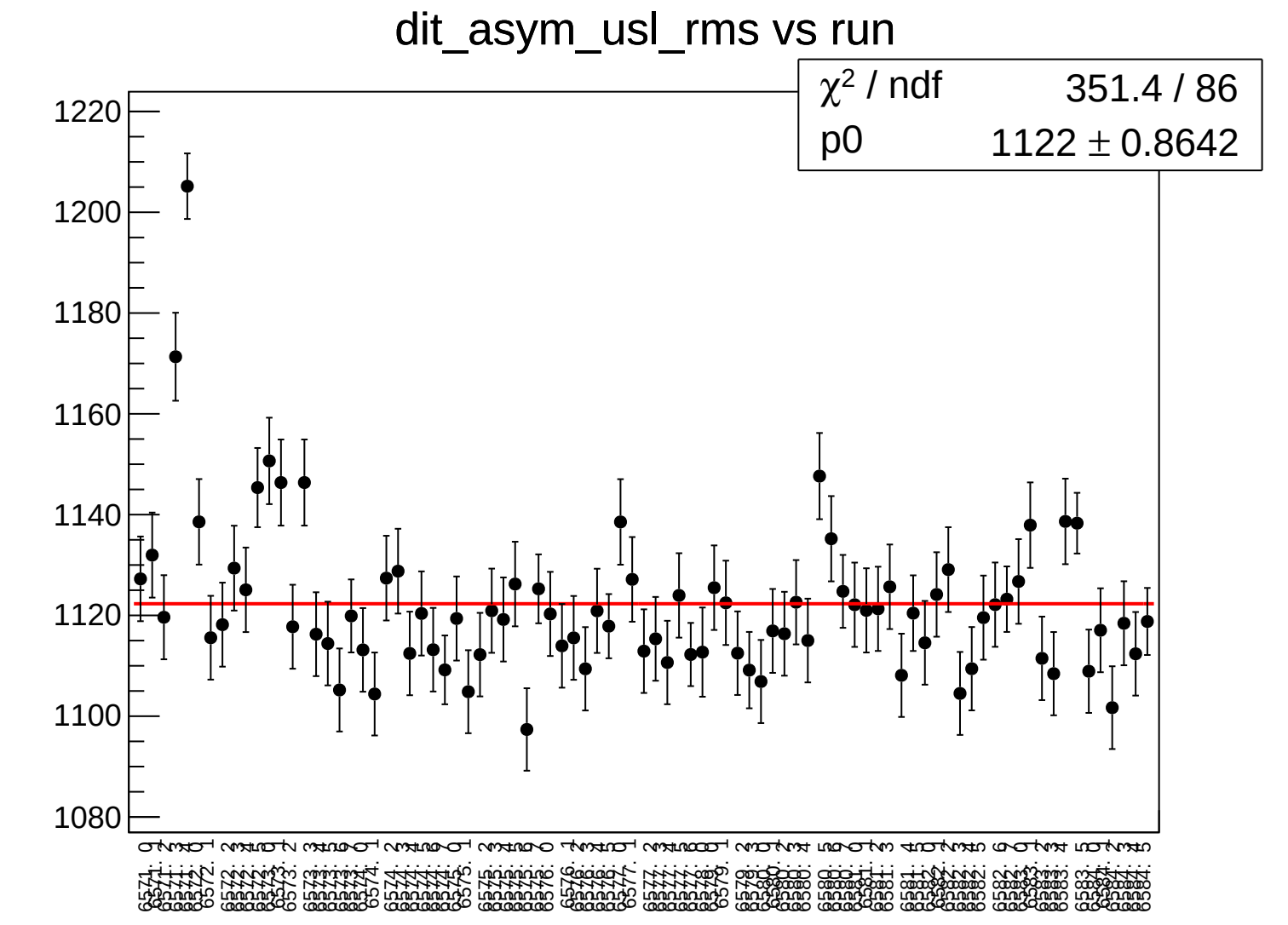

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 95.28 / 86
p0 290.1 ± 1642
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −534.4
Std Dev 0
2
1
0
−1
−2

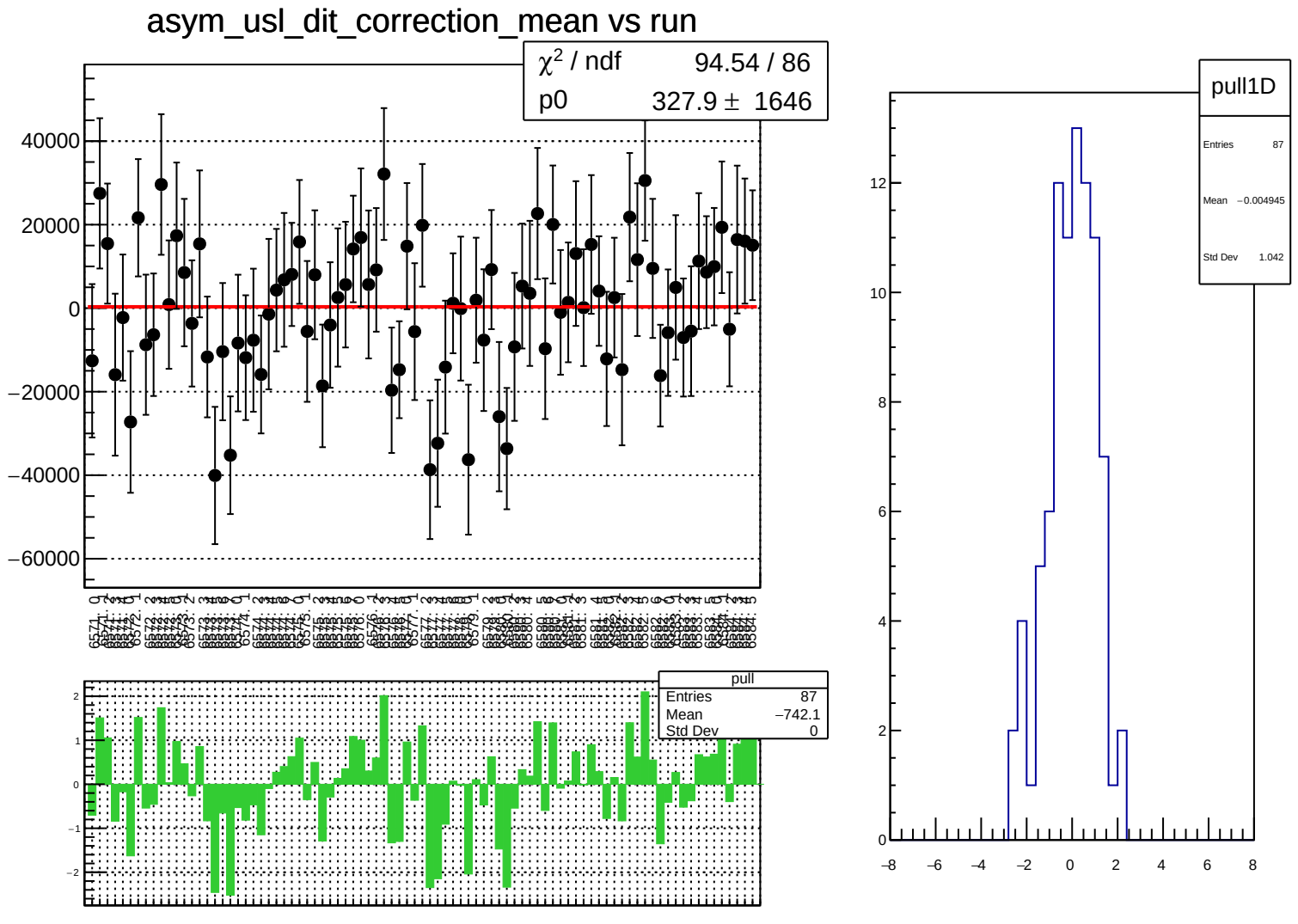

pull1D
Entries 87
Mean −0.006799
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

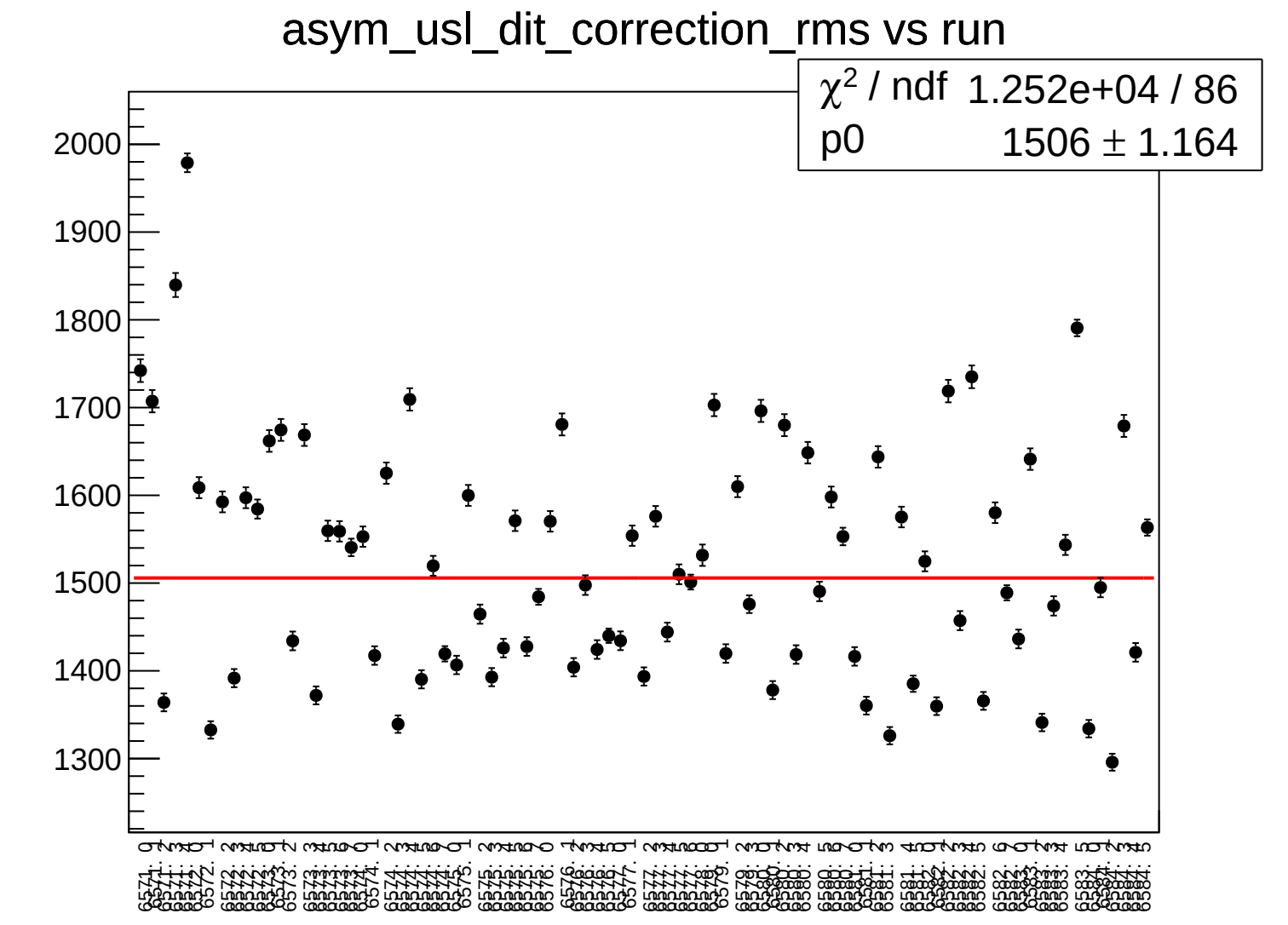

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1.437e+04 / 86
p0 1501 ± 1.161
2000
1800
1600
1400
1200

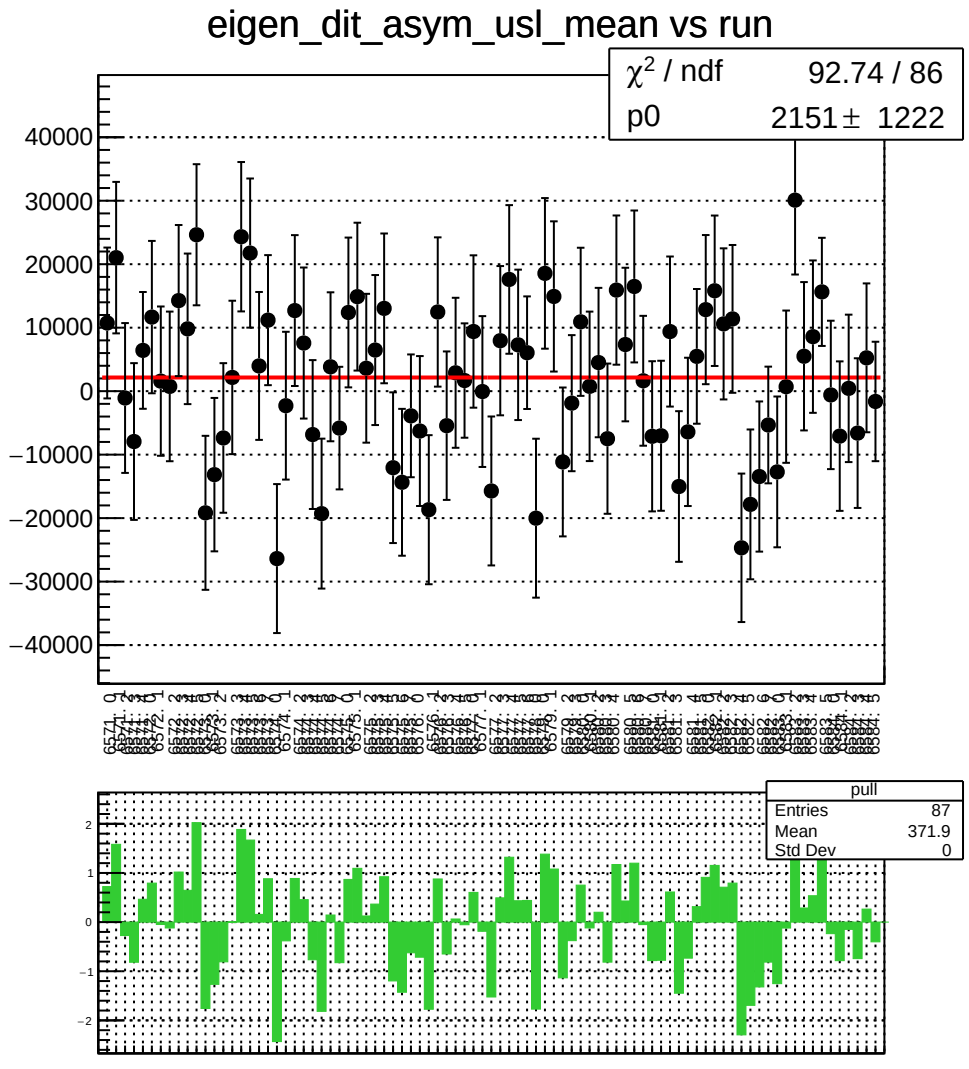

dit_asym_usl_mean vs run
χ² / ndf 92.74 / 86
p0 2151 ± 1222
pull
Entries 87
Mean 371.9
Std Dev 0

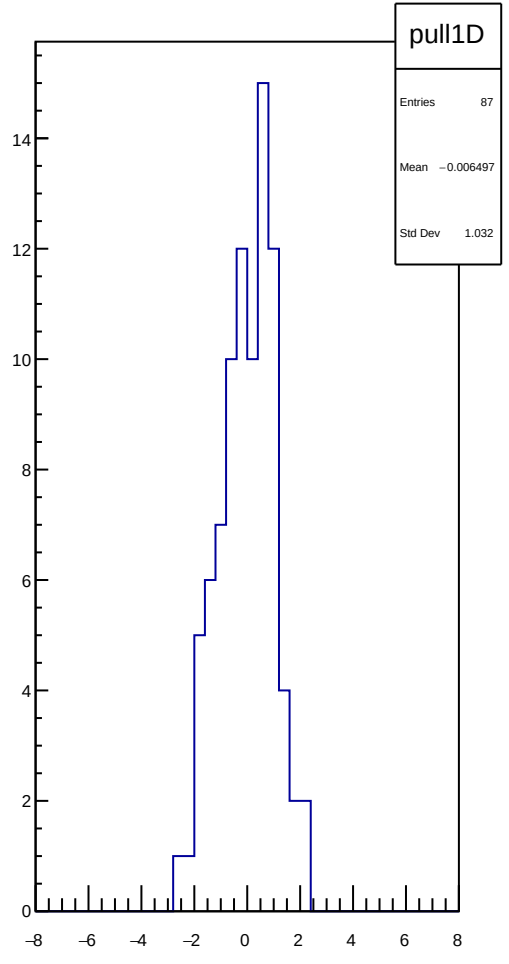

pull1D
Entries 87
Mean −0.006497
Std Dev 1.032

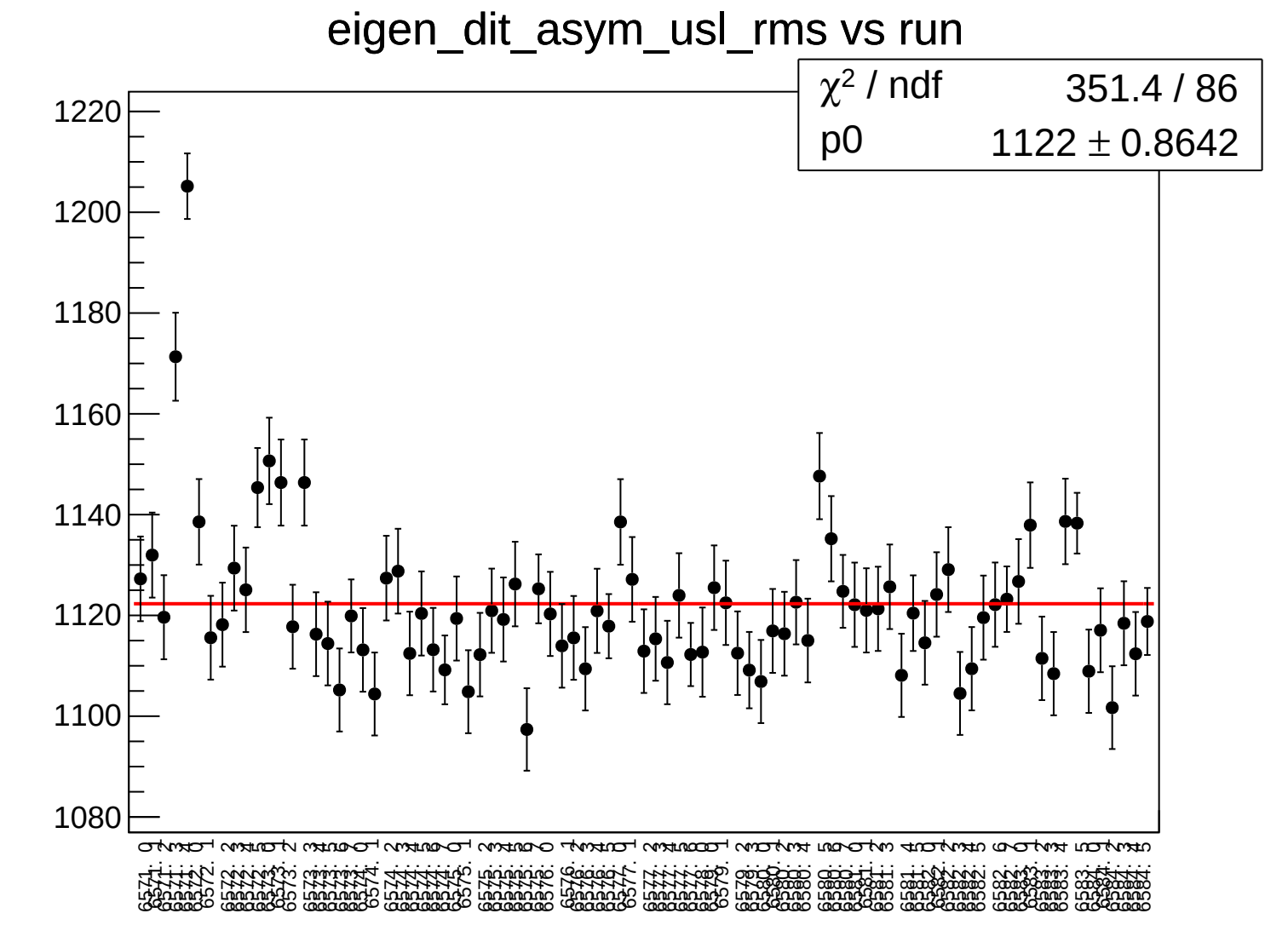

dit_asym_usl_rms vs run
χ² / ndf 351.4 / 86
p0 1122 ± 0.8642
1220
1200
1180
1160
1140
1120
1100
1080

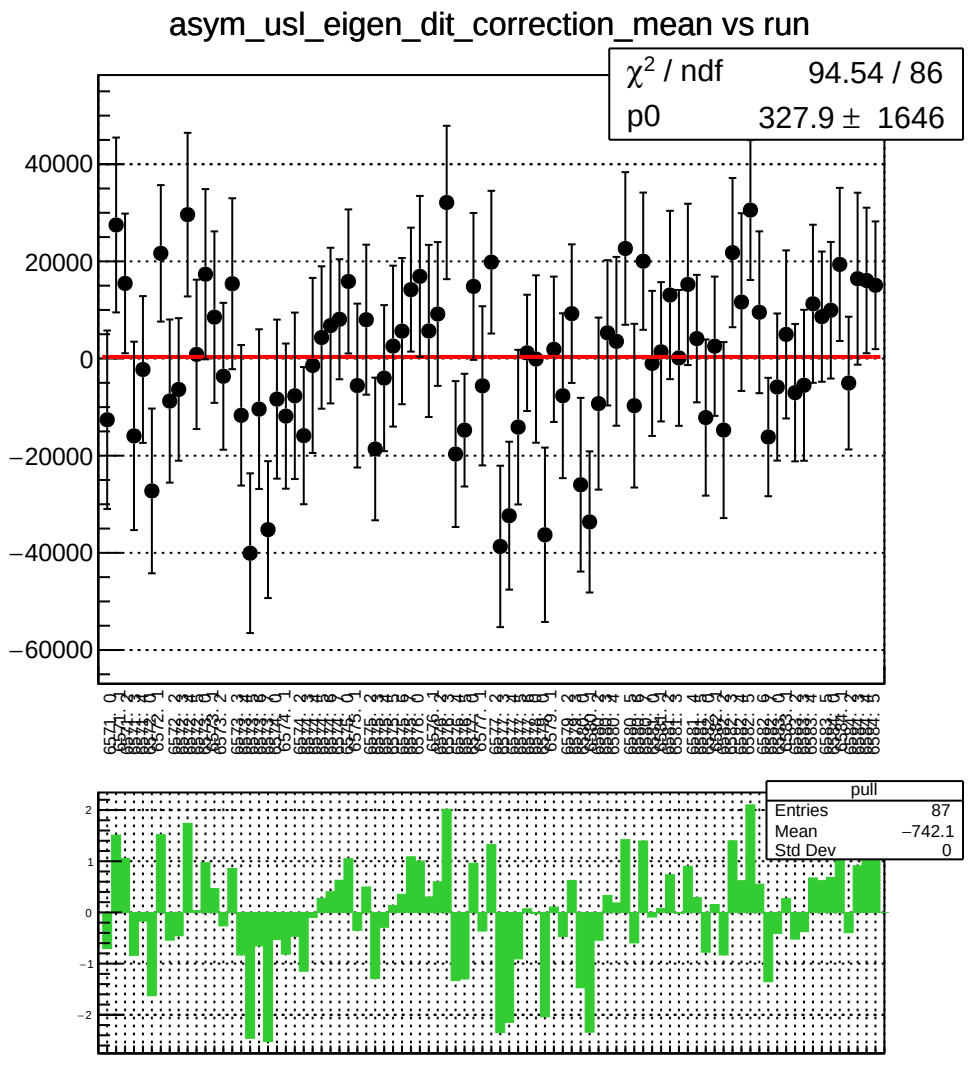

asym_usl_dit_correction_mean vs run
χ² / ndf 94.54 / 86
p0 327.9 ± 1646
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −742.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.004945
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

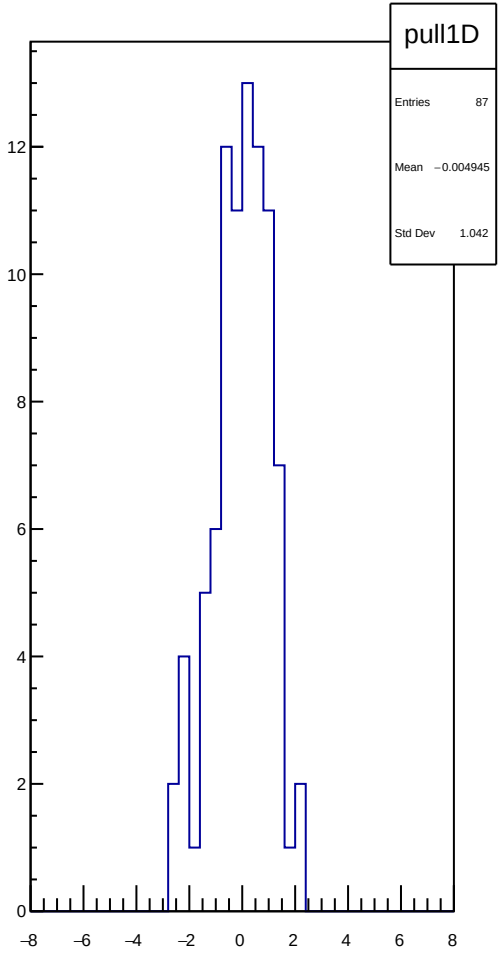

asym_usl_dit_correction_rms vs run
χ² / ndf 1.252e+04 / 86
p0 1506 ± 1.164
2000
1900
1800
1700
1600
1500
1400
1300


eigen_dit_asym_usl_mean vs run
χ² / ndf 92.74 / 86
p0 2151 ± 1222
pull
Entries 87
Mean 371.9
Std Dev 0

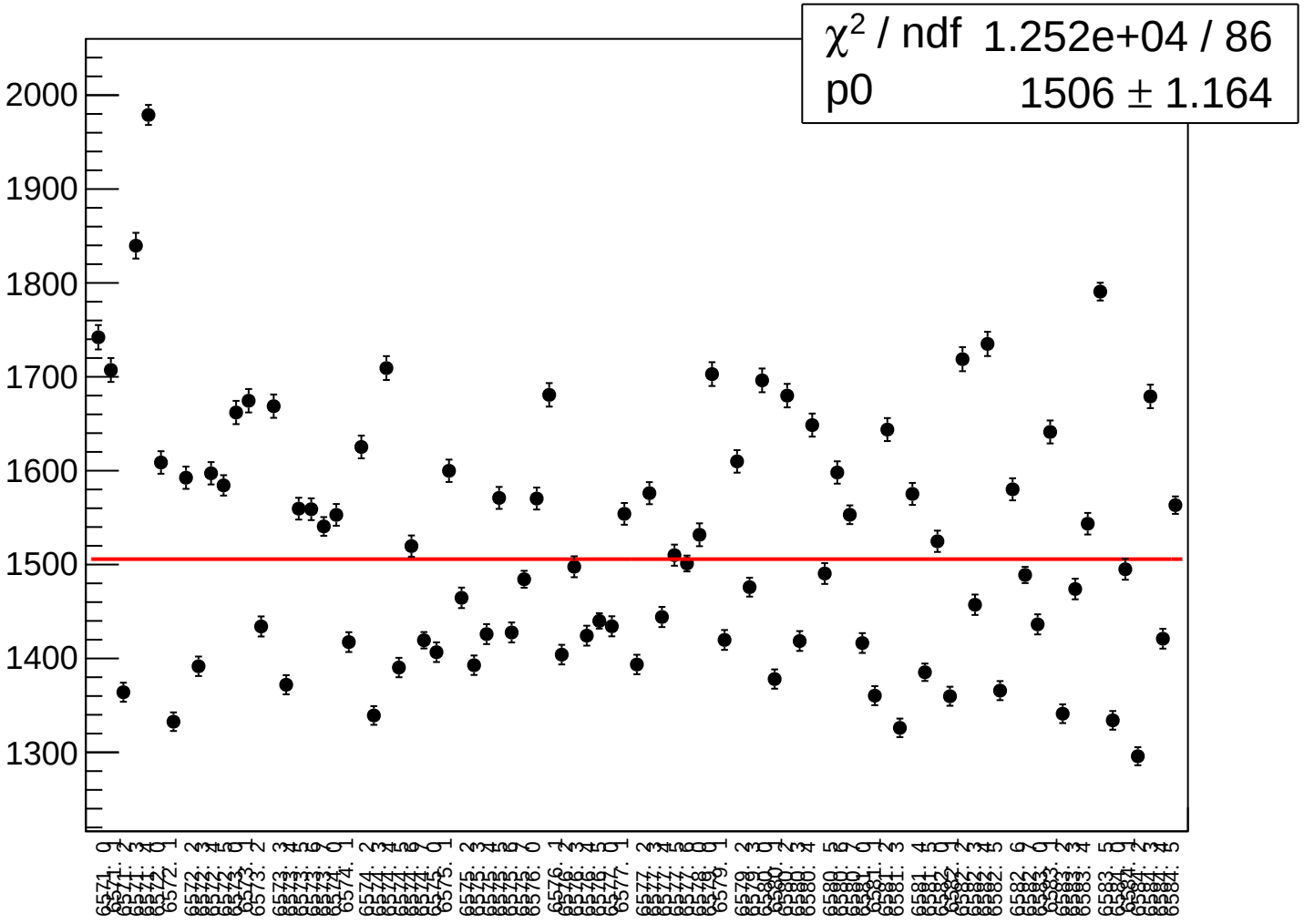

pull1D
Entries 87
Mean −0.006497
Std Dev 1.032

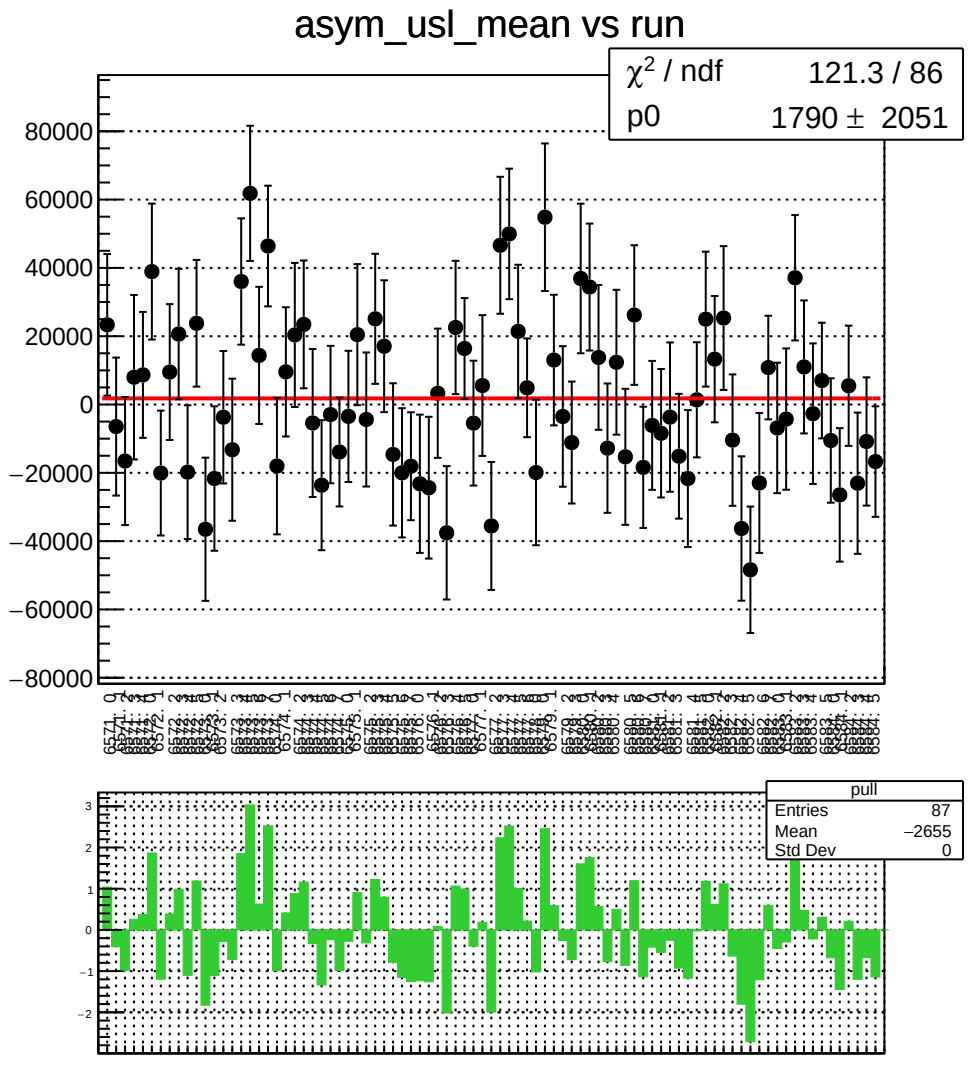

eigen_dit_asym_usl_rms vs run
χ² / ndf 351.4 / 86
p0 1122 ± 0.8642
1220
1200
1180
1160
1140
1120
1100
1080

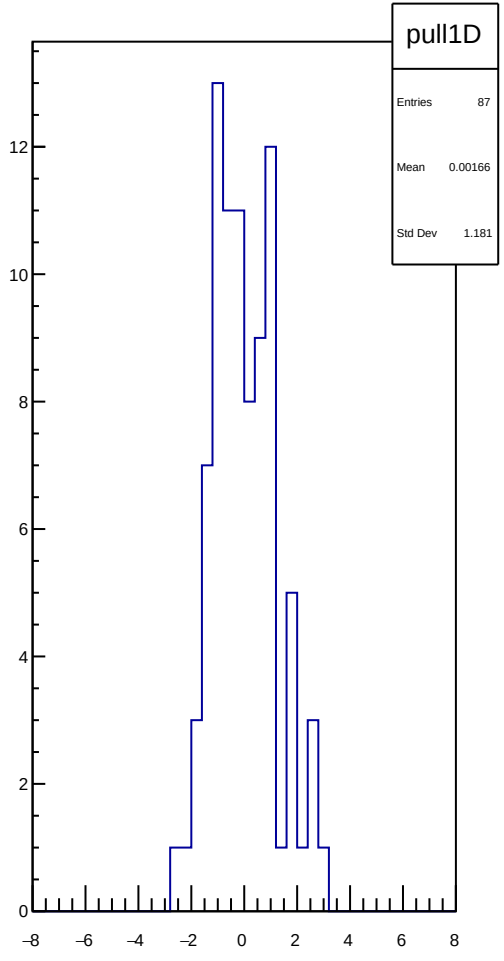

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 94.54 / 86
p0 327.9 ± 1646
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −742.1
Std Dev 0
2
1
0
−1
−2

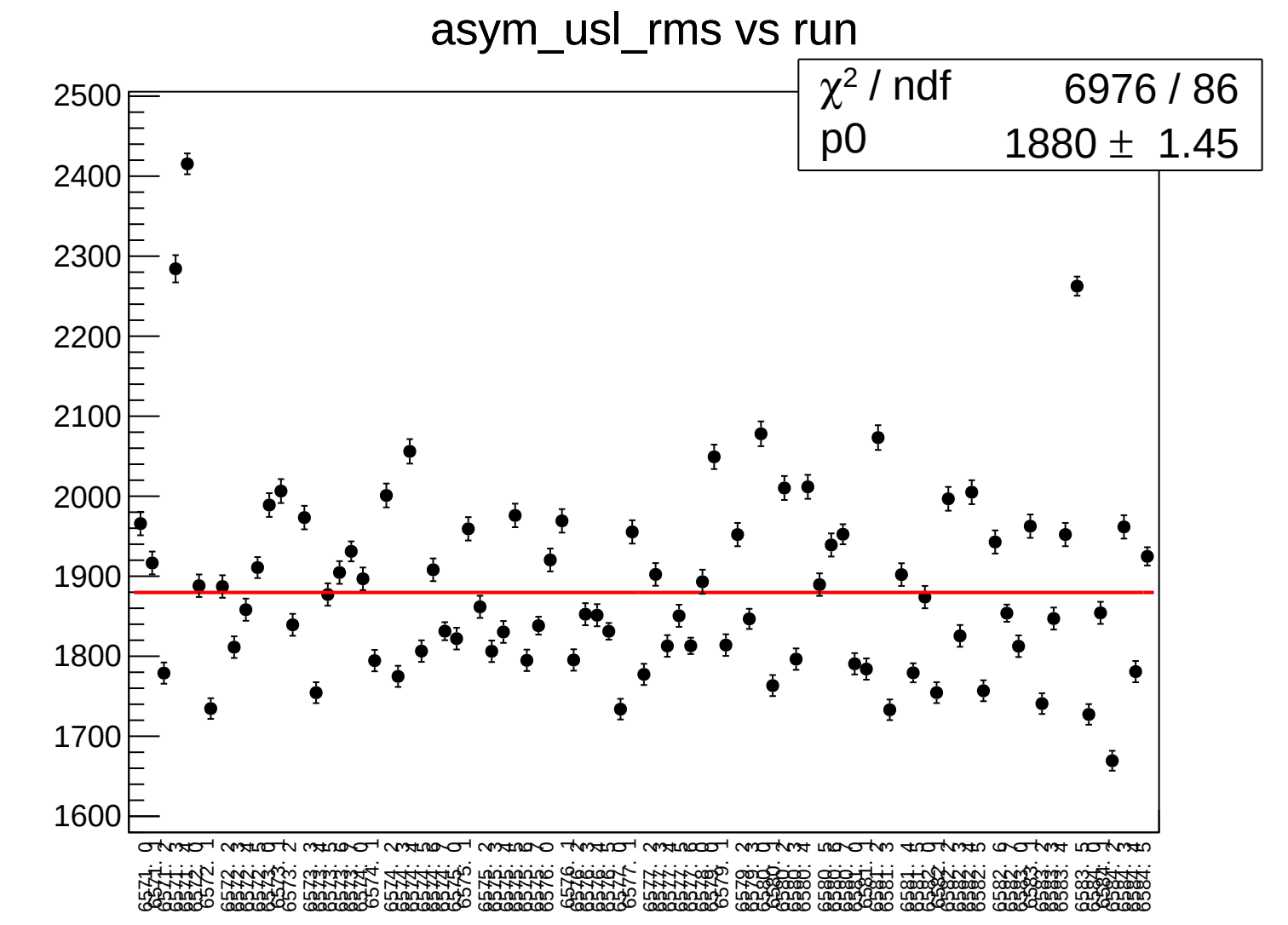

pull1D
Entries 87
Mean −0.004945
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

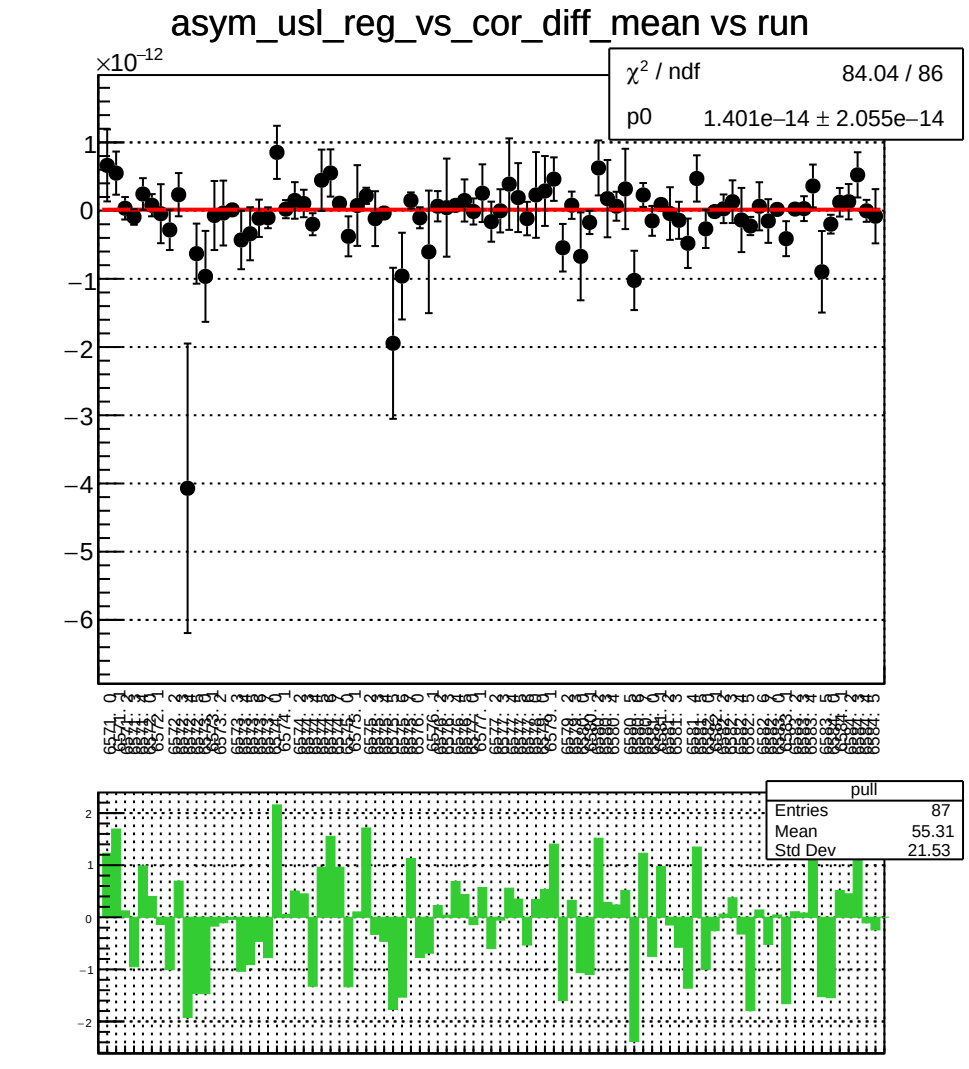
asym_usl_eigen_dit_correction_rms vs run

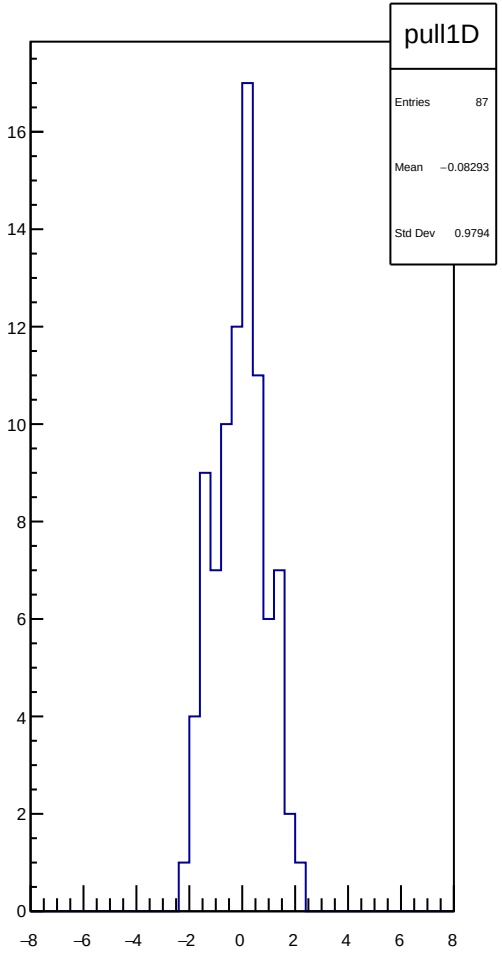


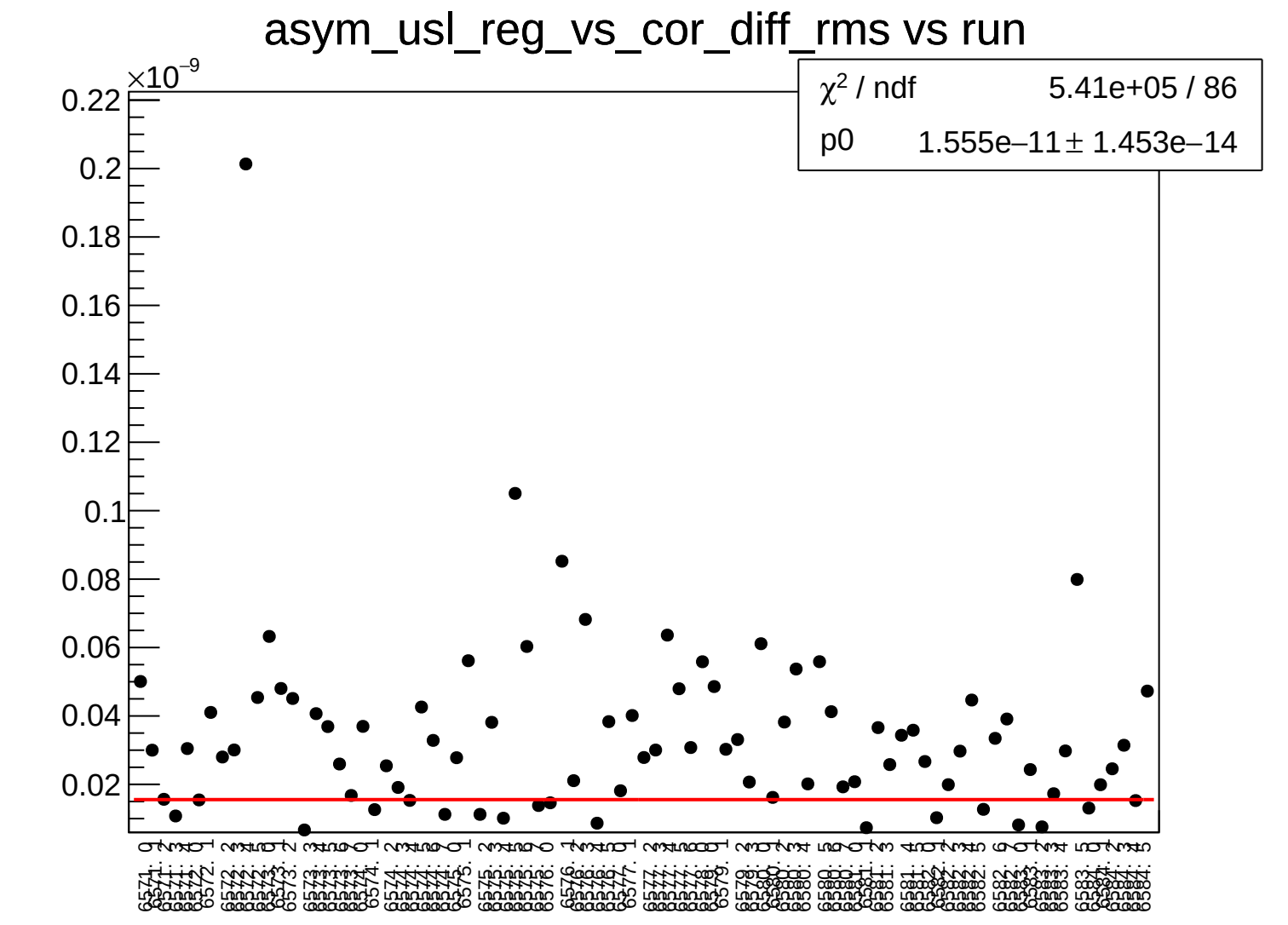

asym_usl_mean vs run
χ² / ndf 121.3 / 86
p0 1790 ± 2051
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −2655
Std Dev 0
3
2
1
0
−1
−2

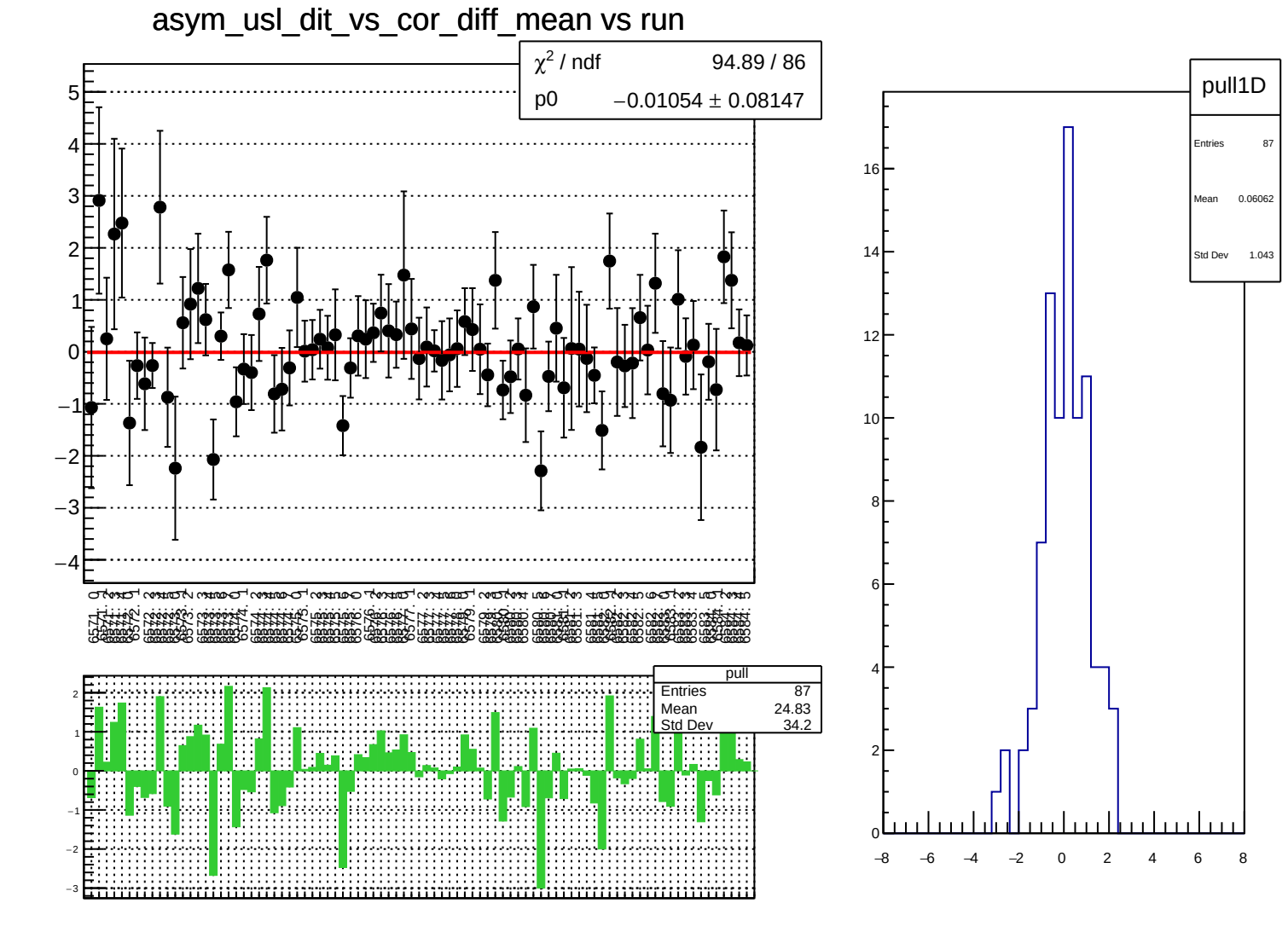

pull1D
Entries 87
Mean 0.00166
Std Dev 1.181
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

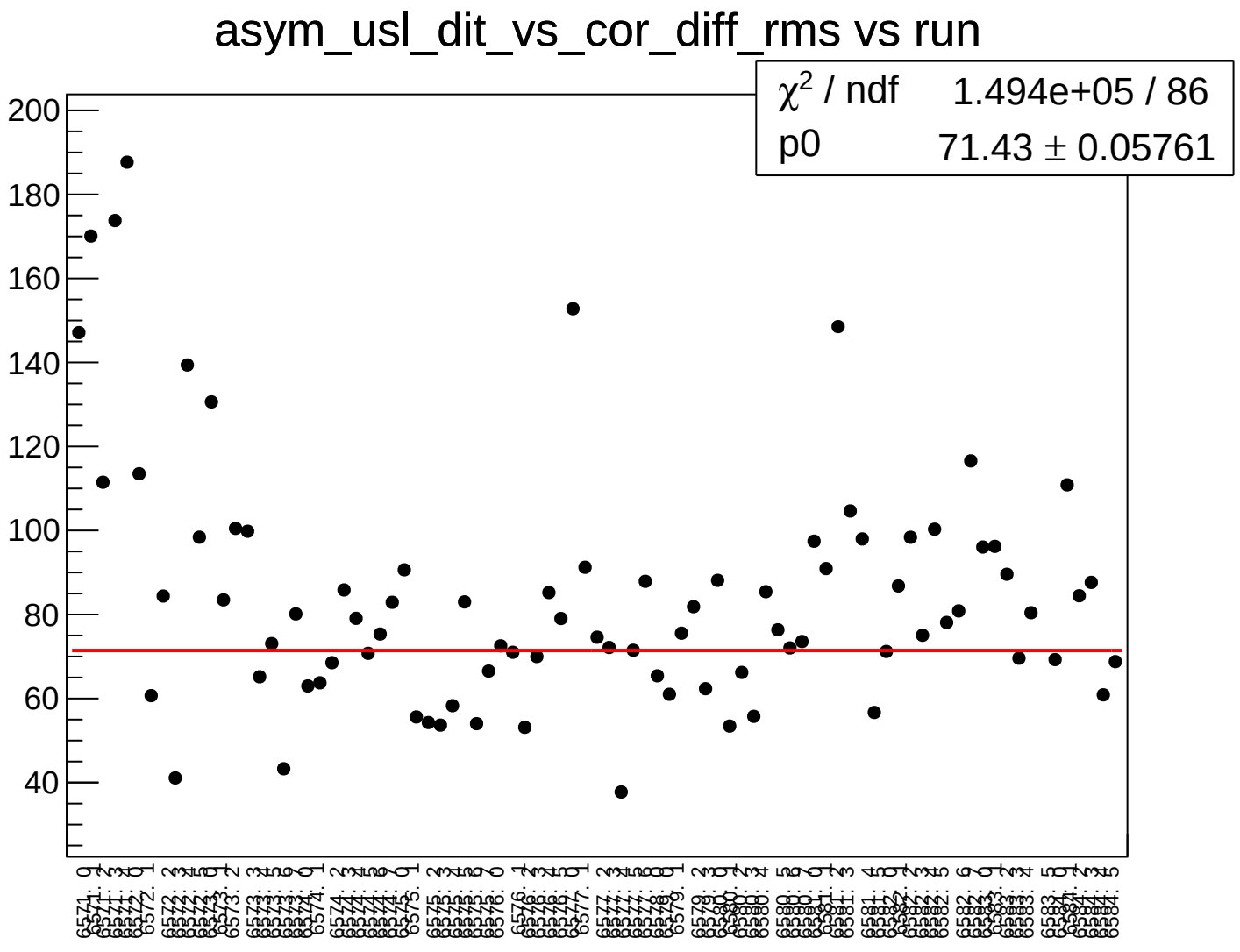

asym_usl_rms vs run
χ² / ndf 6976 / 86
p0 1880 ± 1.45
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

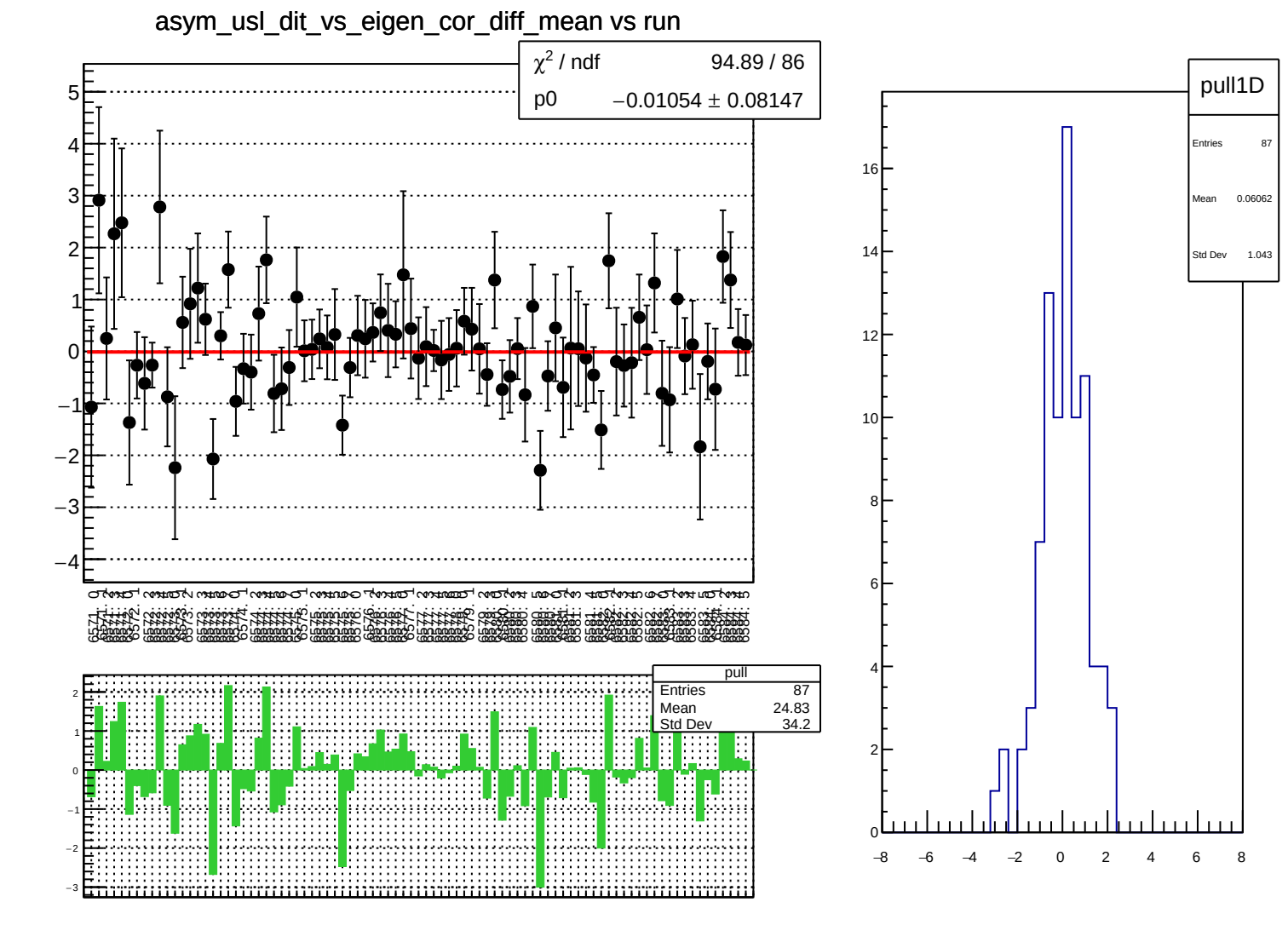

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.04 / 86
p0 1.401e−14 ± 2.055e−14
pull
Entries 87
Mean 55.31
Std Dev 21.53

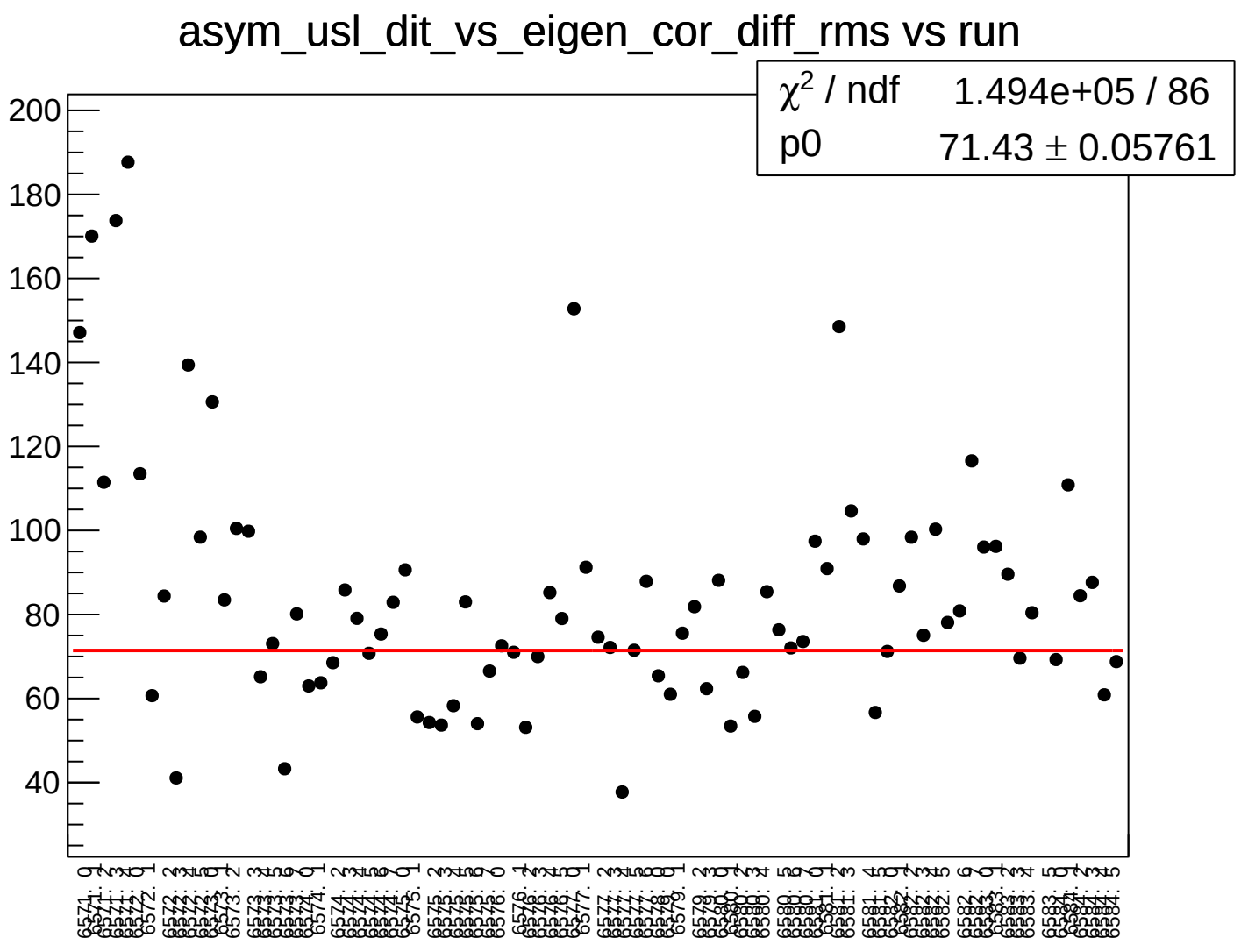

pull1D
Entries 87
Mean −0.08293
Std Dev 0.9794

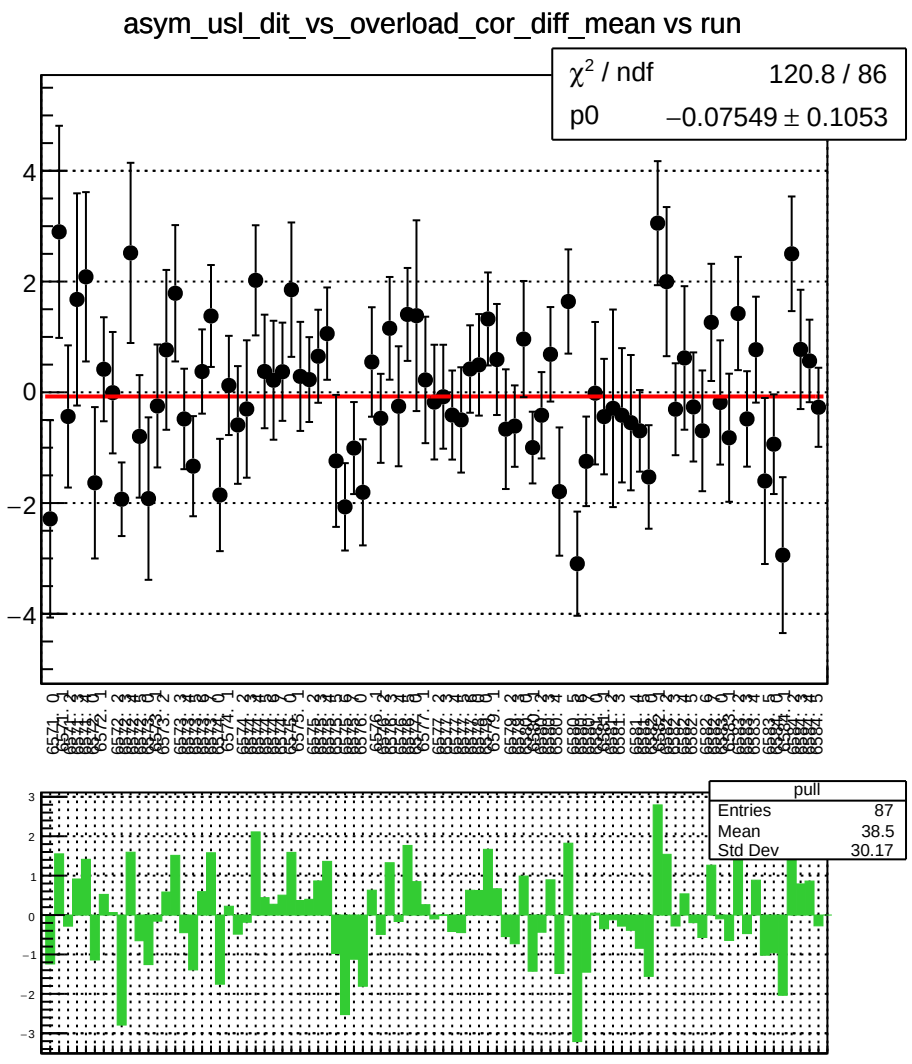

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.41e+05 / 86
p0 1.555e−11 ± 1.453e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

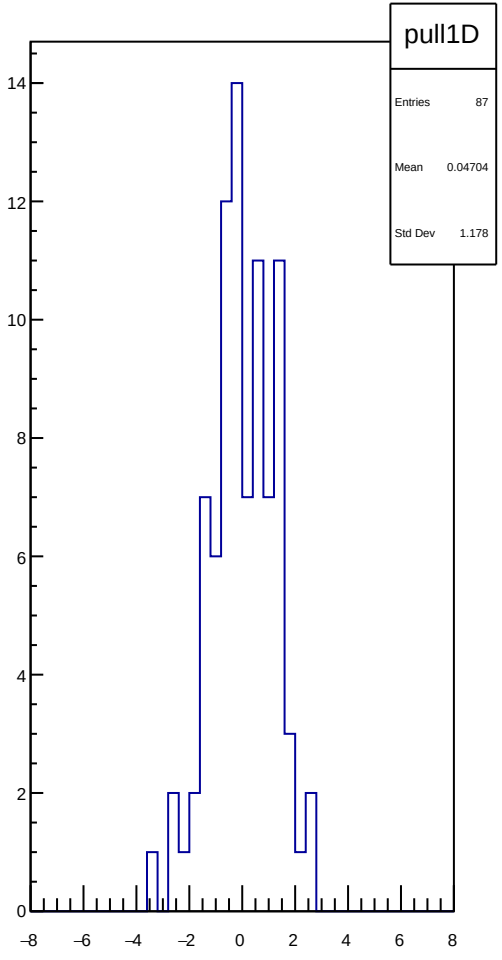

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 94.89 / 86
p0 −0.01054 ± 0.08147
pull
Entries 87
Mean 24.83
Std Dev 34.2
pull1D
Entries 87
Mean 0.06062
Std Dev 1.043

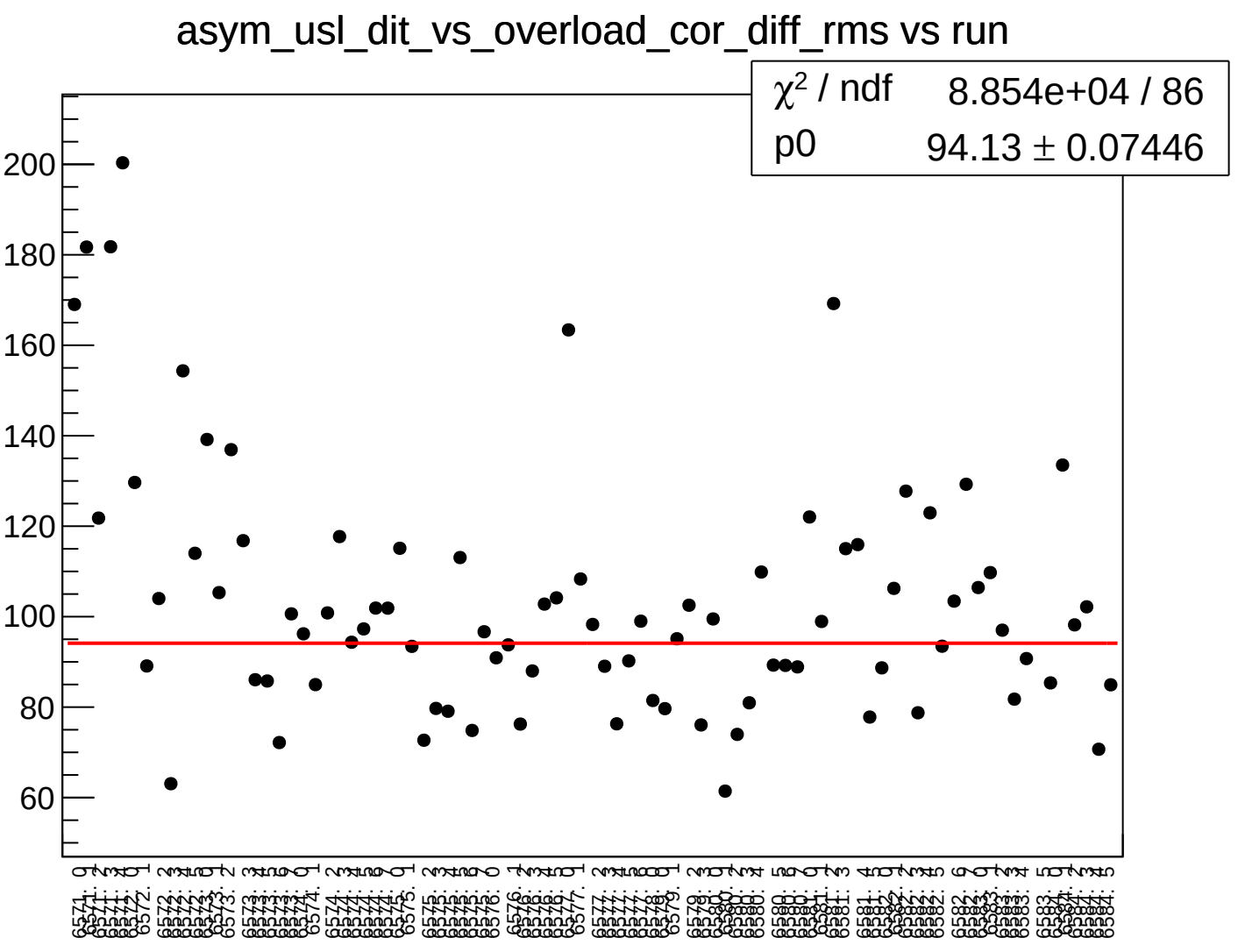

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.494e+05 / 86
p0 71.43 ± 0.05761
200
180
160
140
120
100
80
60
40

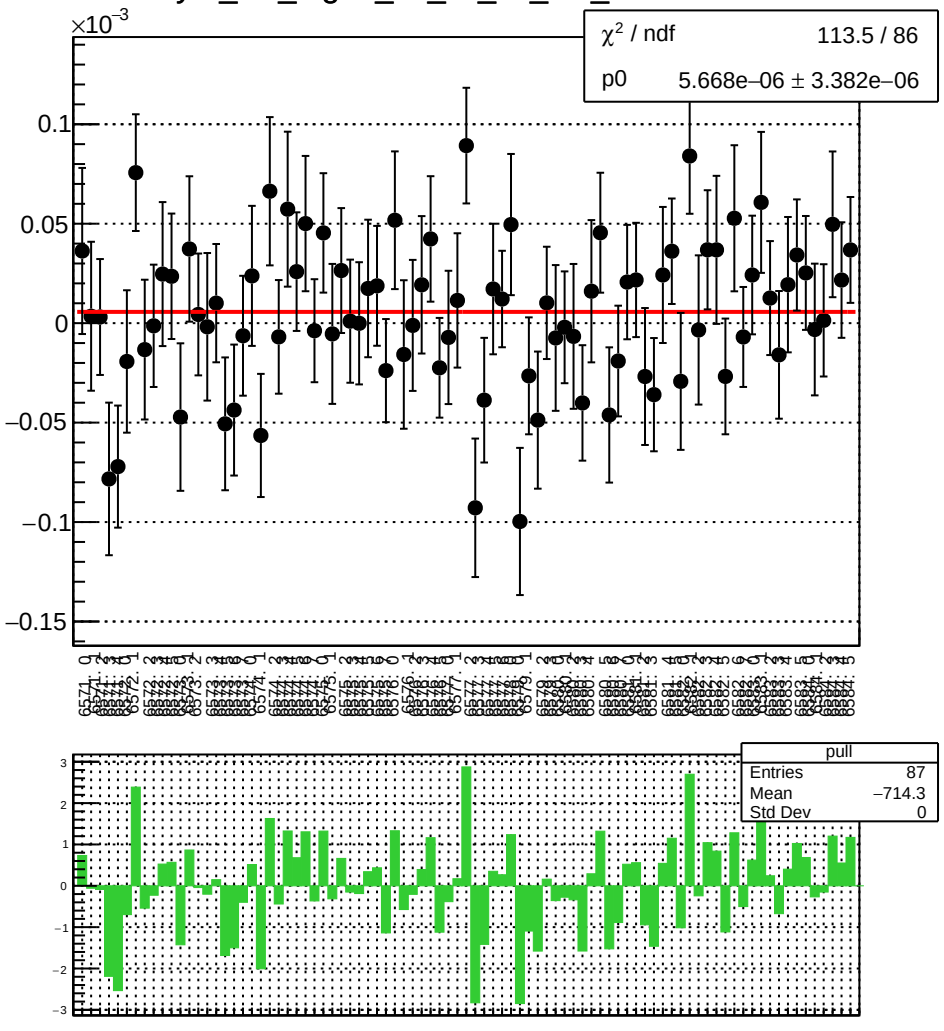

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.89 / 86
p0 −0.01054 ± 0.08147
pull
Entries 87
Mean 24.83
Std Dev 34.2
pull1D
Entries 87
Mean 0.06062
Std Dev 1.043

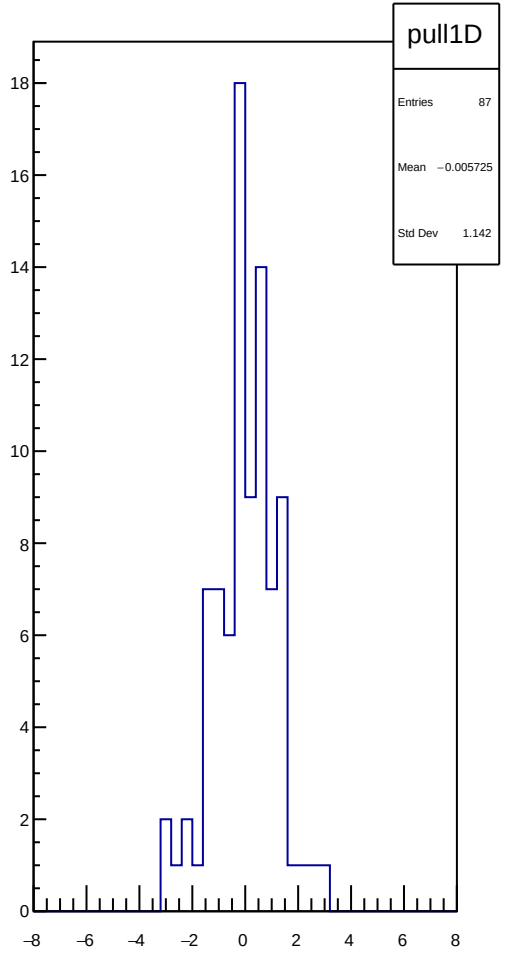

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.494e+05 / 86
p0 71.43 ± 0.05761
200
180
160
140
120
100
80
60
40


asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 120.8 / 86
p0 −0.07549 ± 0.1053
pull
Entries 87
Mean 38.5
Std Dev 30.17

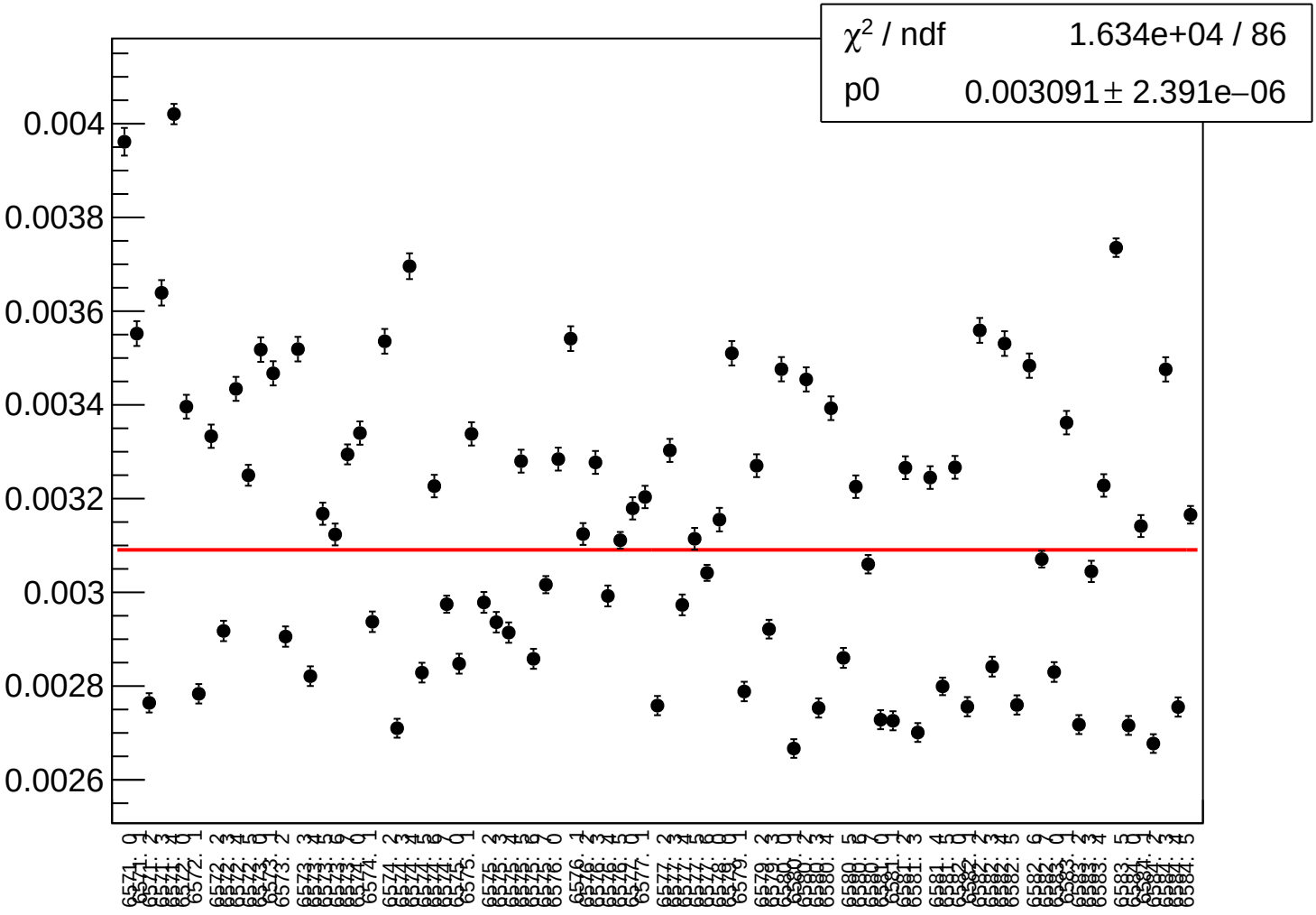

pull1D
Entries 87
Mean 0.04704
Std Dev 1.178

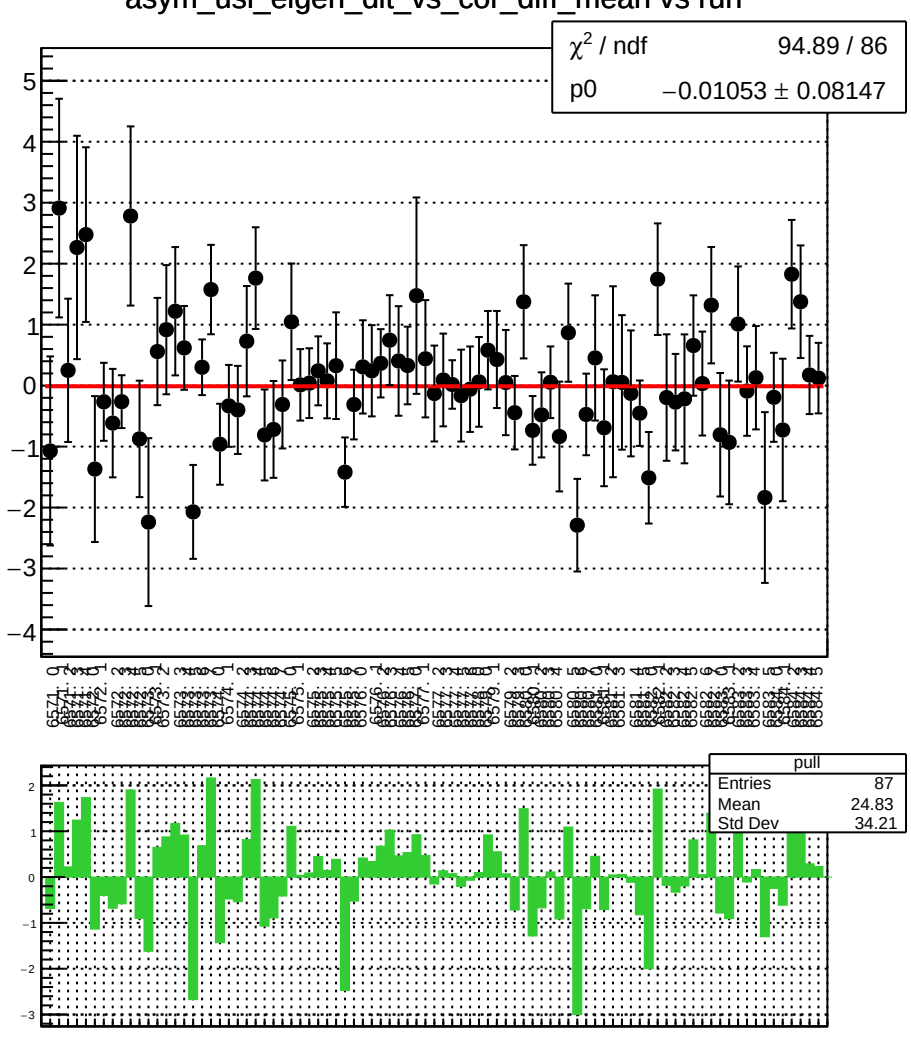

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.854e+04 / 86
p0 94.13 ± 0.07446
200
180
160
140
120
100
80
60

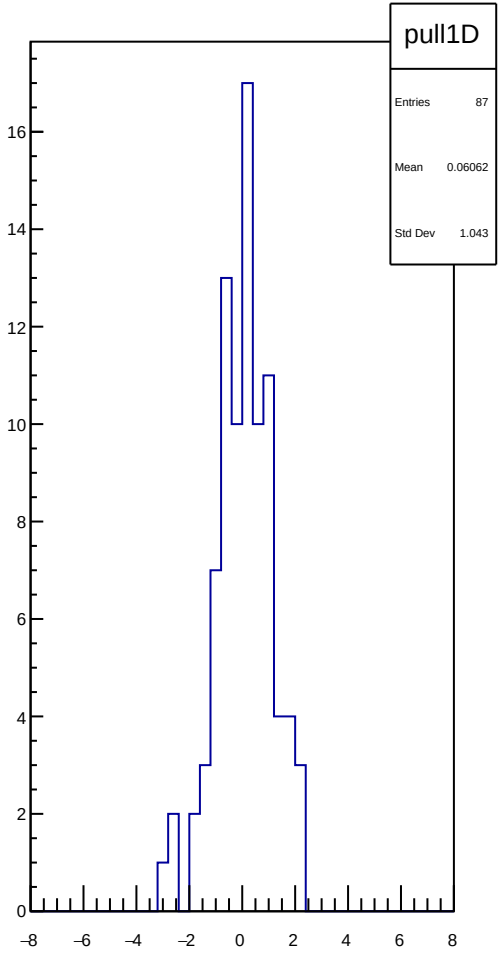

asym_usl_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 113.5 / 86
p0 5.668e−06 ± 3.382e−06
×10⁻³
pull
Entries 87
Mean −714.3
Std Dev 0

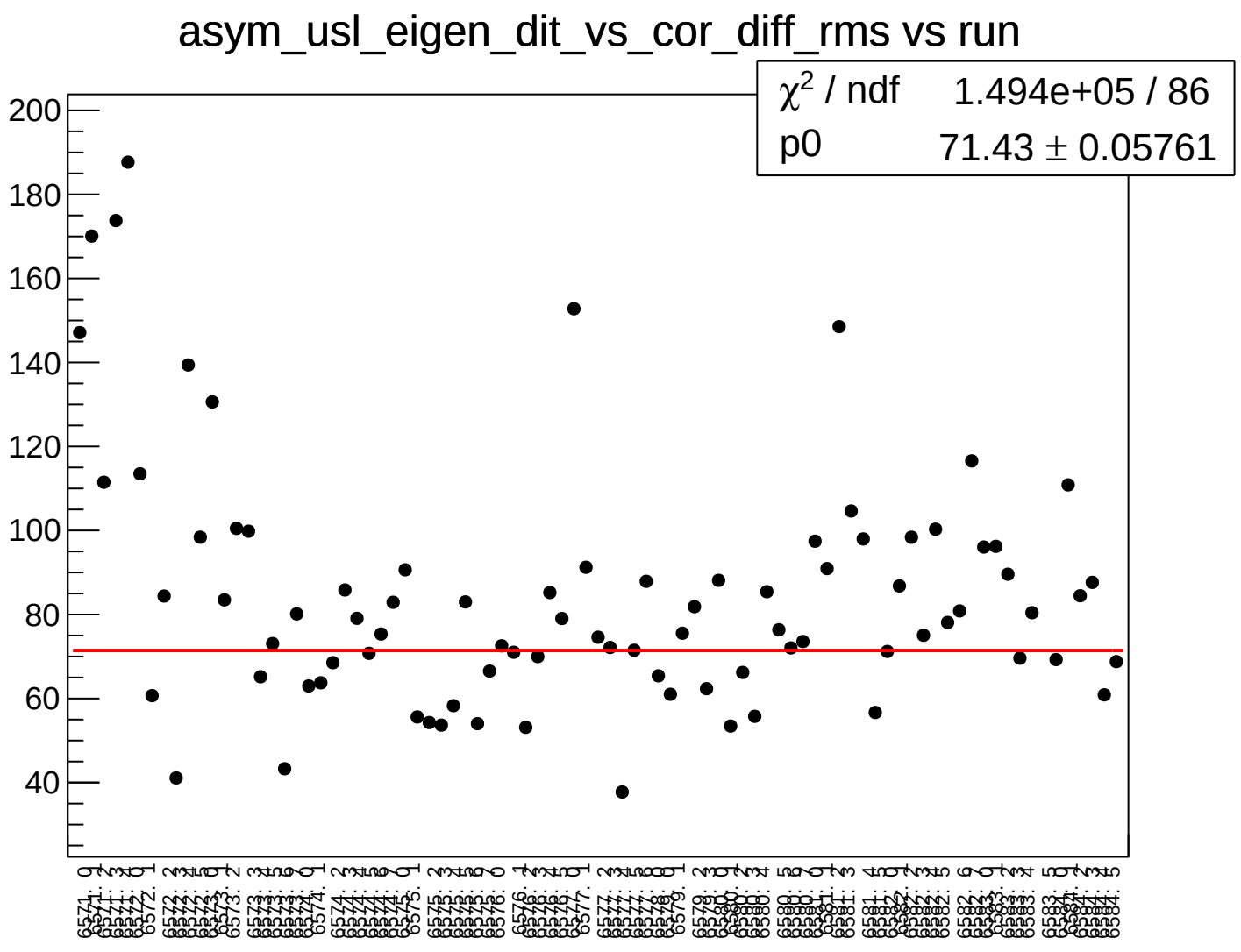

pull1D
Entries 87
Mean −0.005725
Std Dev 1.142

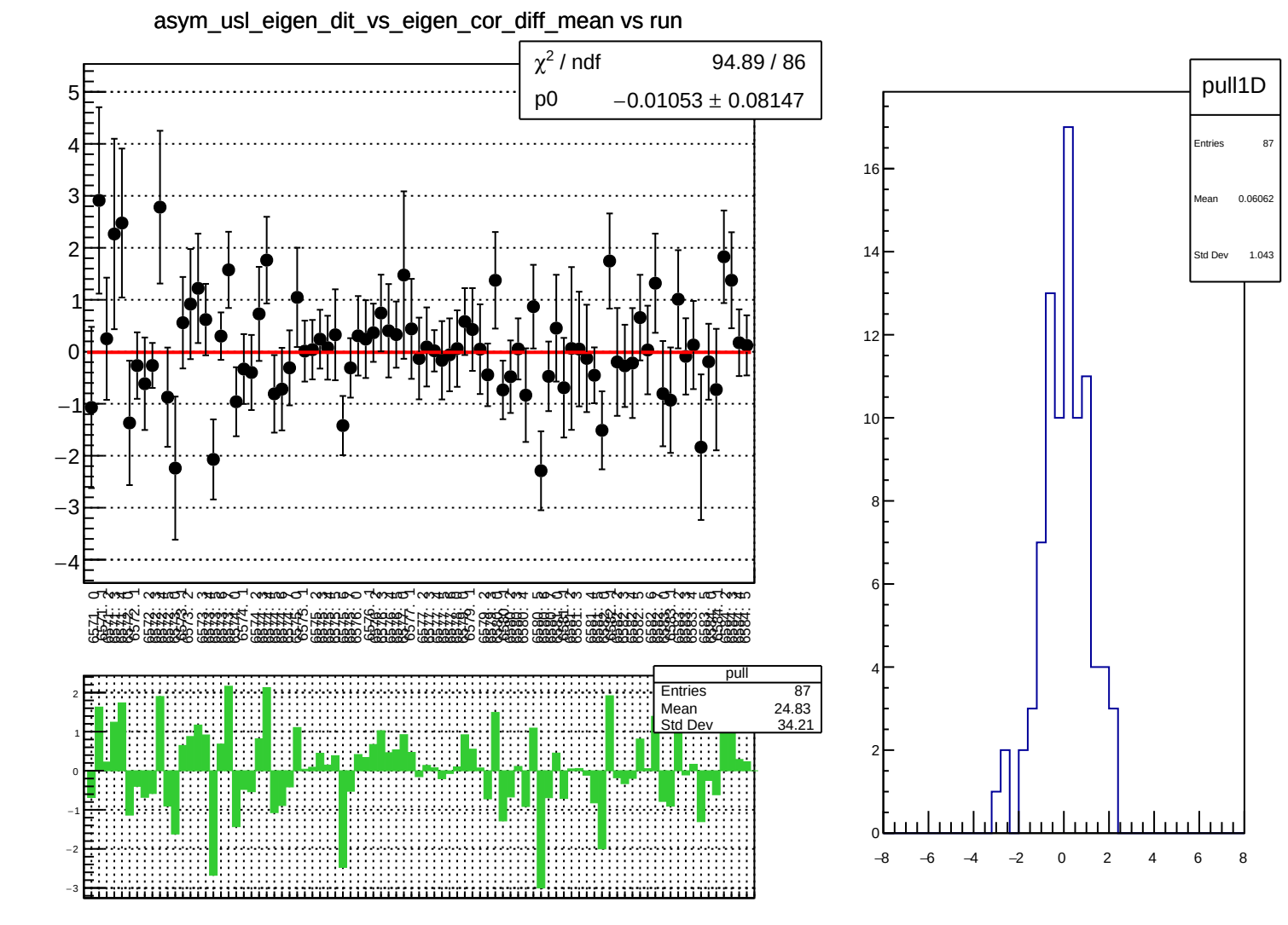
asym_usl_eigen_dit_vs_dit_diff_rms vs run

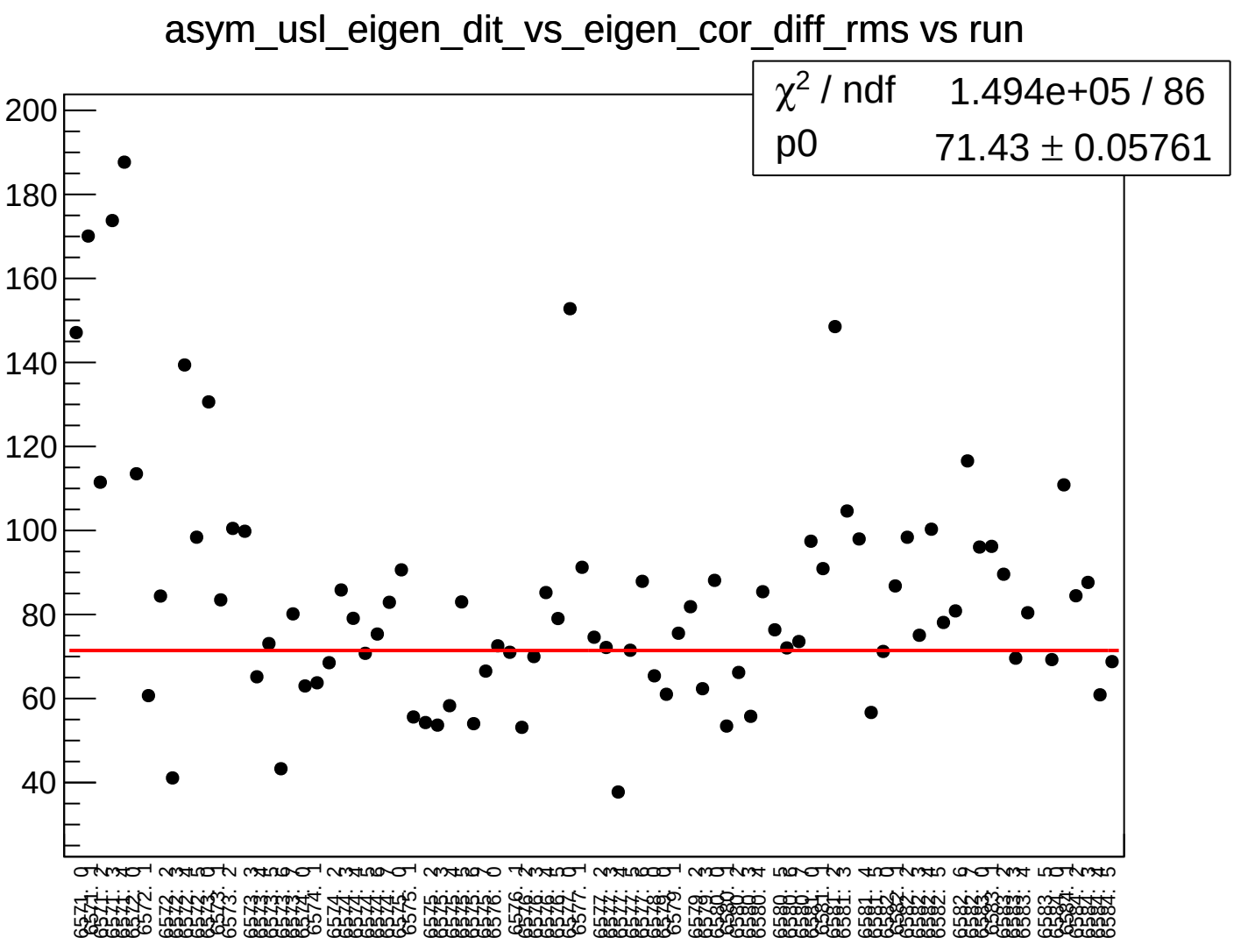


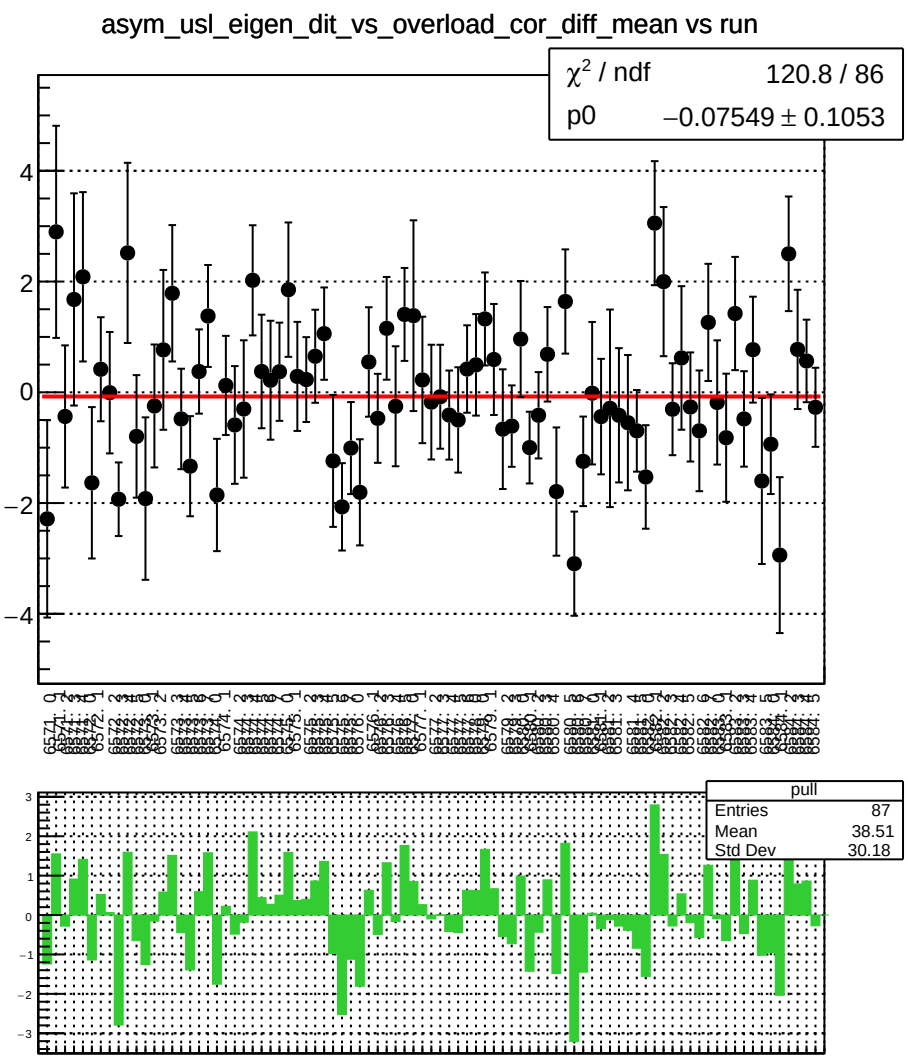

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.89 / 86
p0 −0.01053 ± 0.08147
pull
Entries 87
Mean 24.83
Std Dev 34.21

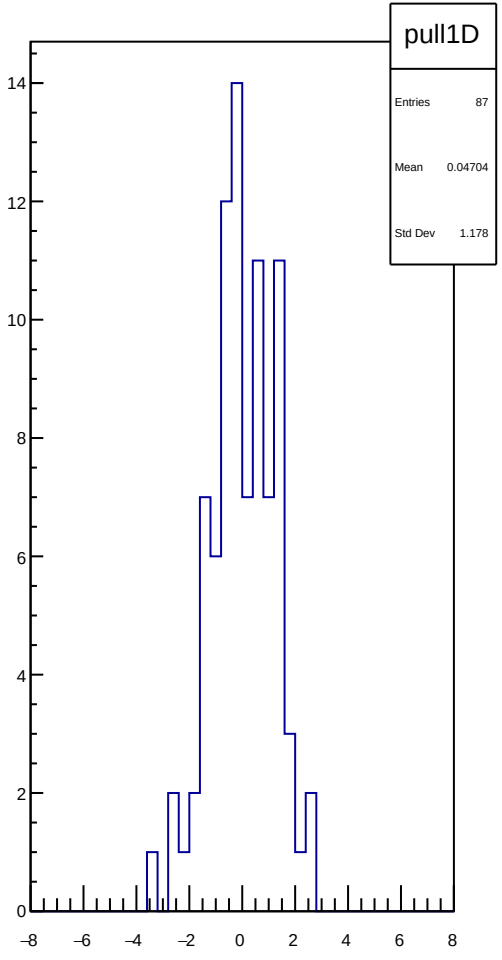

pull1D
Entries 87
Mean 0.06062
Std Dev 1.043

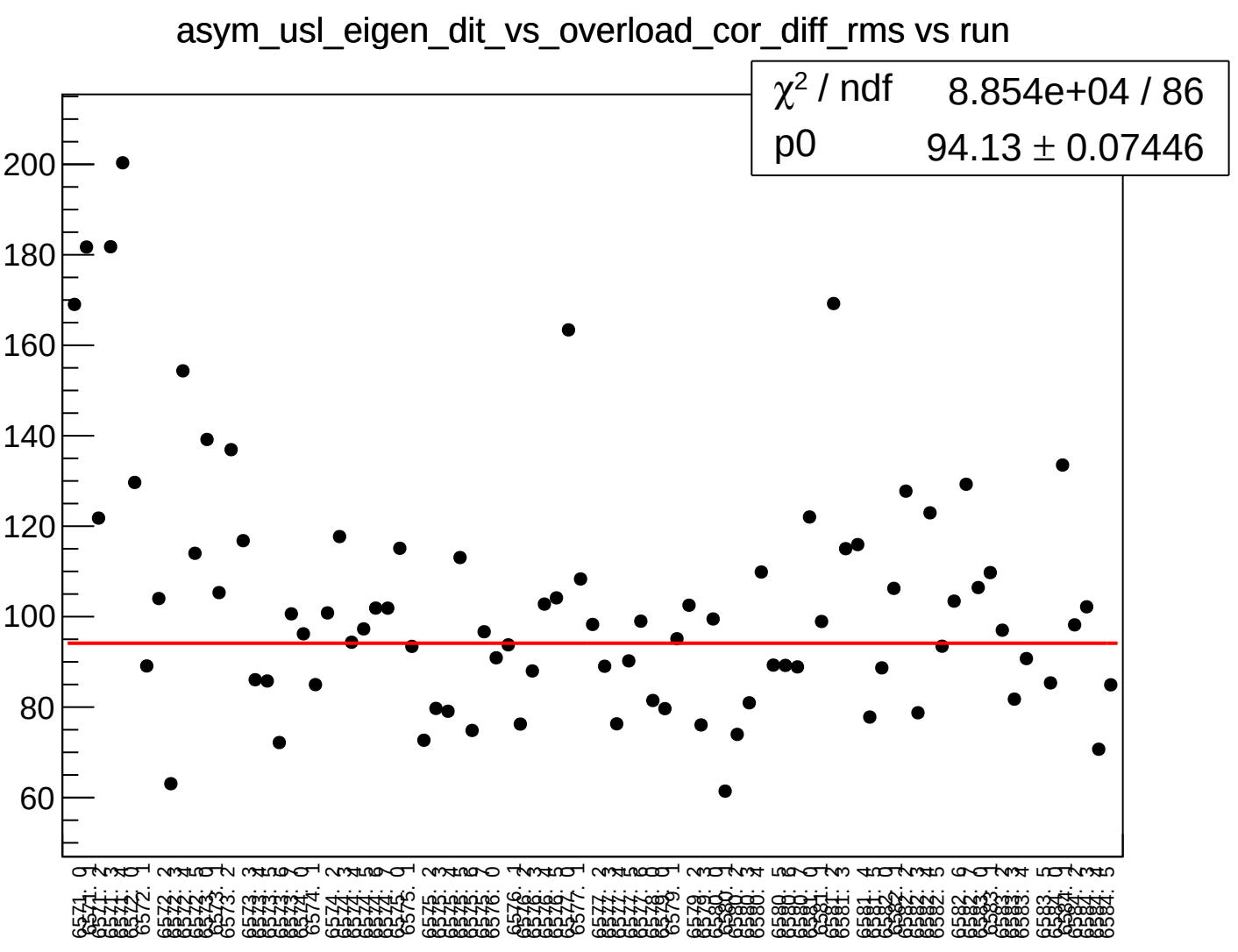

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.494e+05 / 86
p0 71.43 ± 0.05761
200
180
160
140
120
100
80
60
40

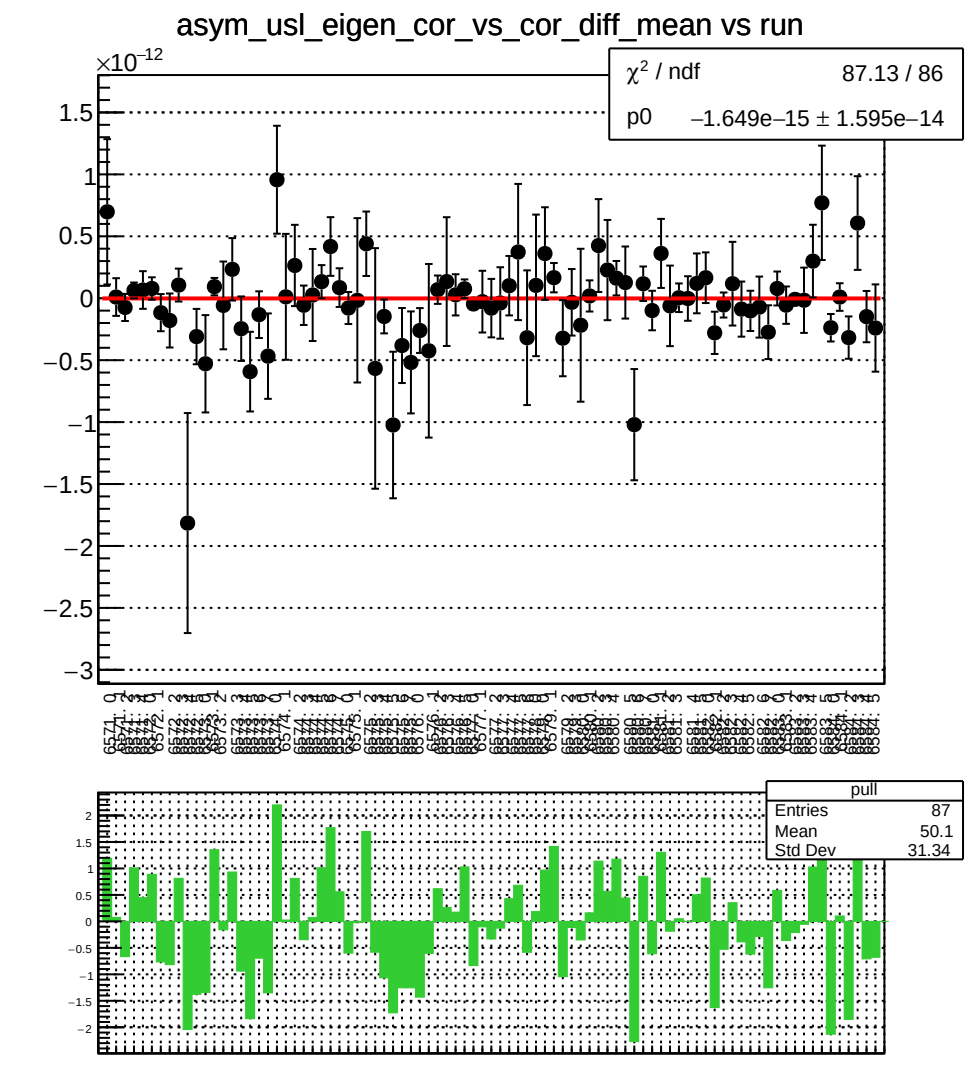

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.89 / 86
p0 −0.01053 ± 0.08147
pull
Entries 87
Mean 24.83
Std Dev 34.21
pull1D
Entries 87
Mean 0.06062
Std Dev 1.043

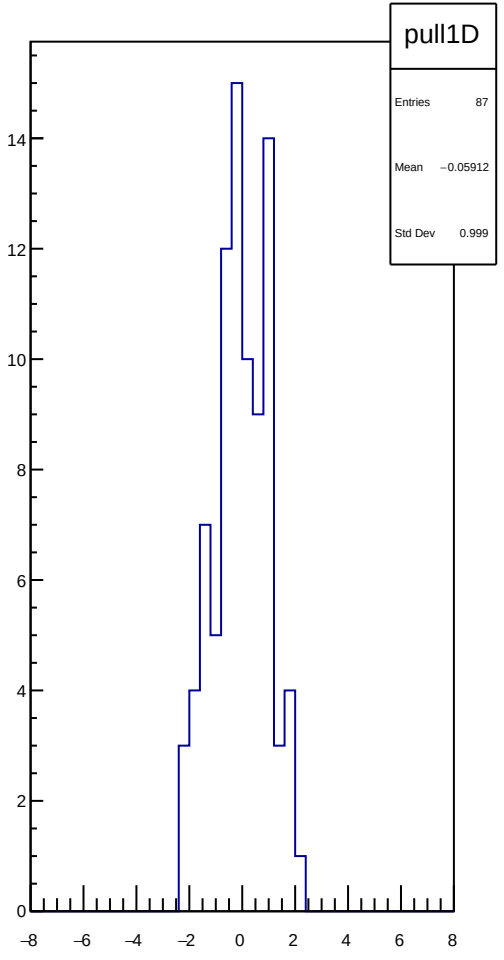

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.494e+05 / 86
p0 71.43 ± 0.05761
200
180
160
140
120
100
80
60
40

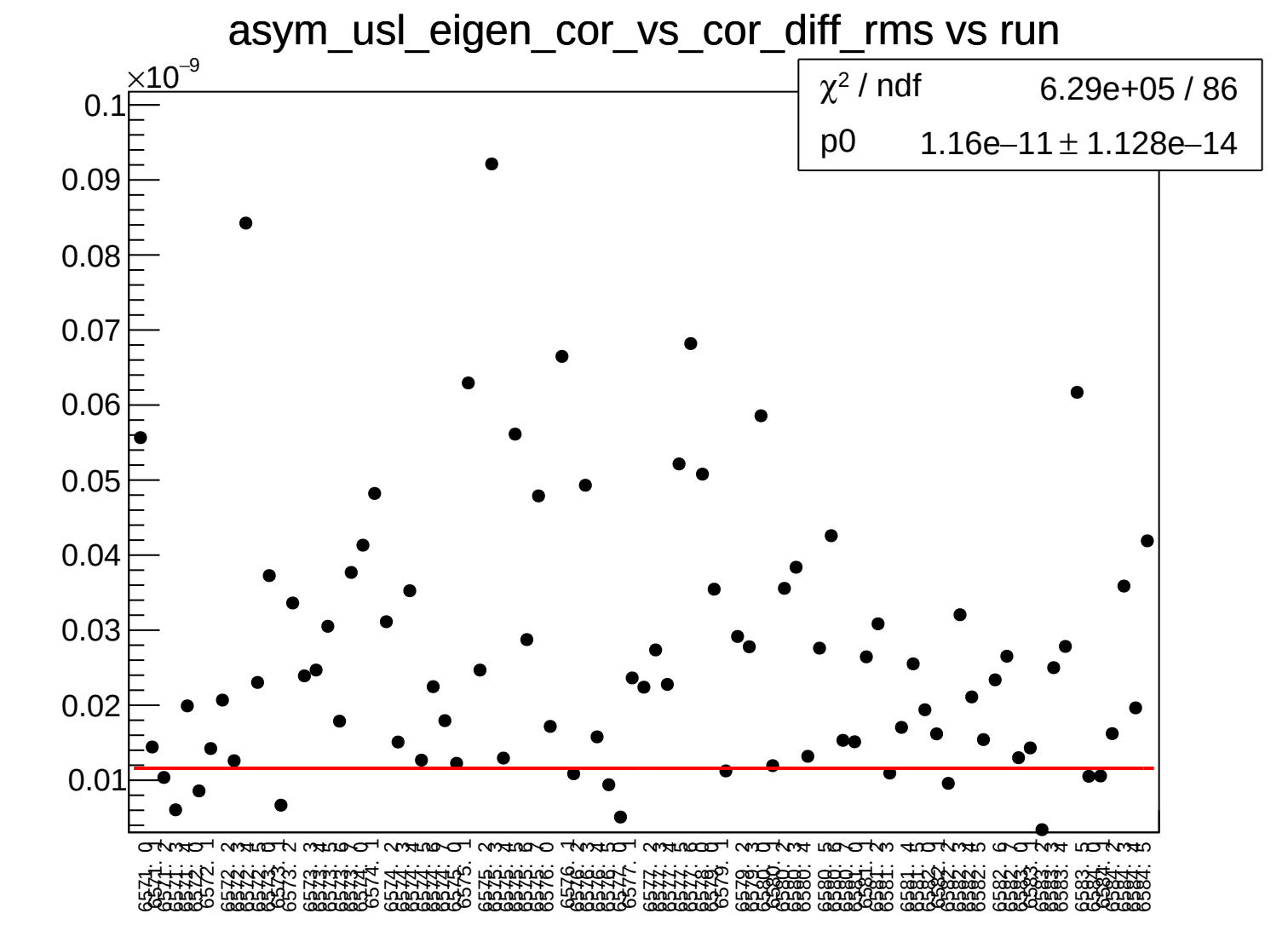

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 120.8 / 86
p0 −0.07549 ± 0.1053
pull
Entries 87
Mean 38.51
Std Dev 30.18


pull1D
Entries 87
Mean 0.04704
Std Dev 1.178

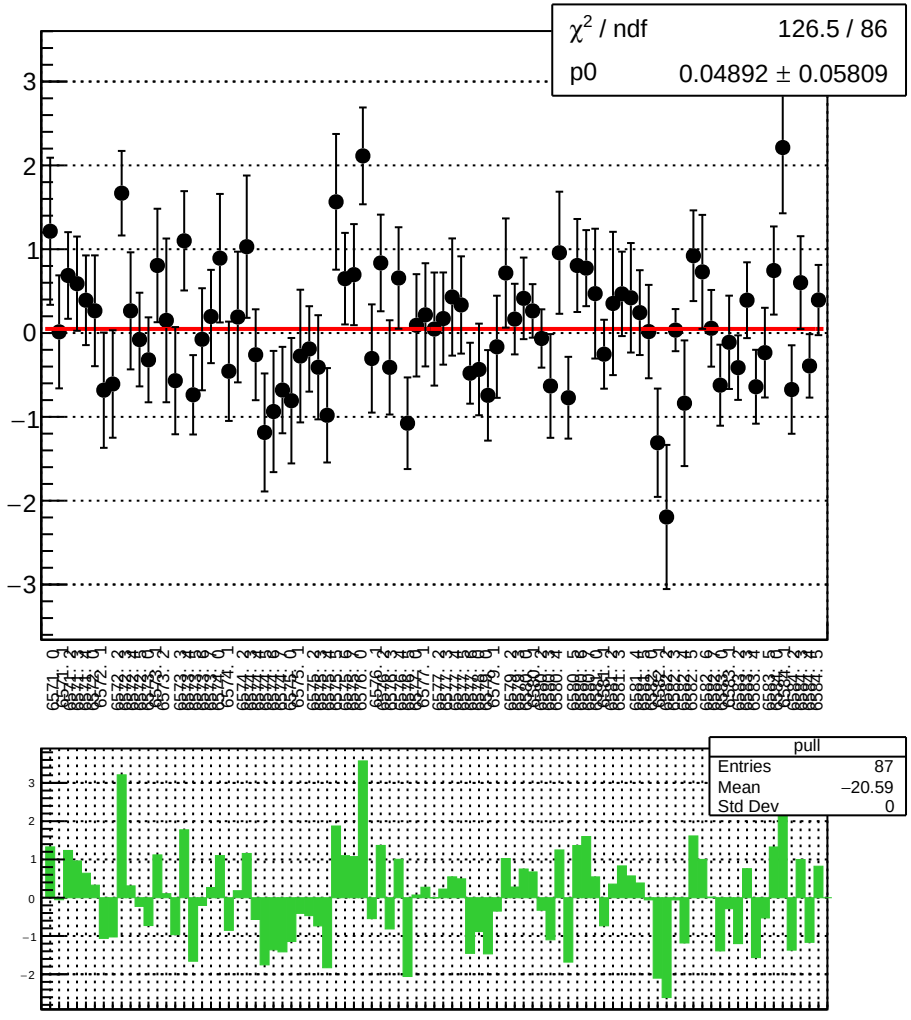

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.854e+04 / 86
p0 94.13 ± 0.07446
200
180
160
140
120
100
80
60

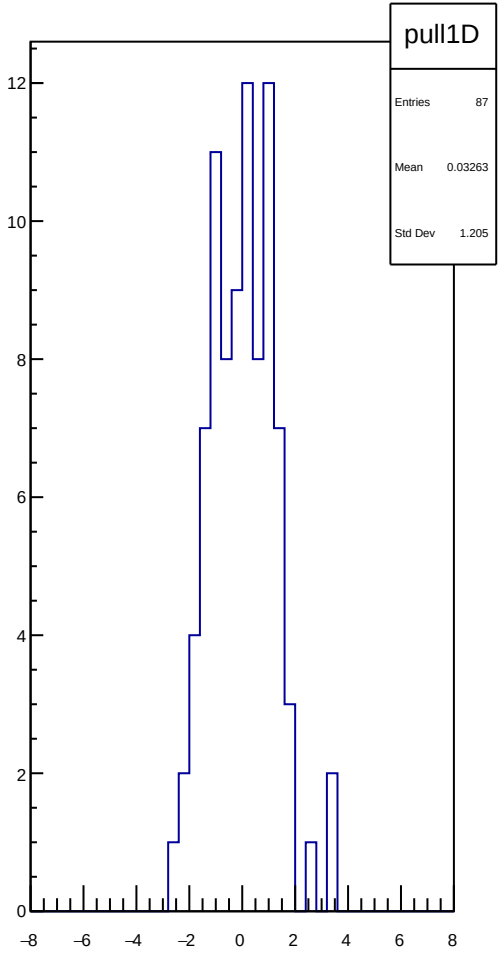

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.13 / 86
p0 −1.649e−15 ± 1.595e−14
pull
Entries 87
Mean 50.1
Std Dev 31.34

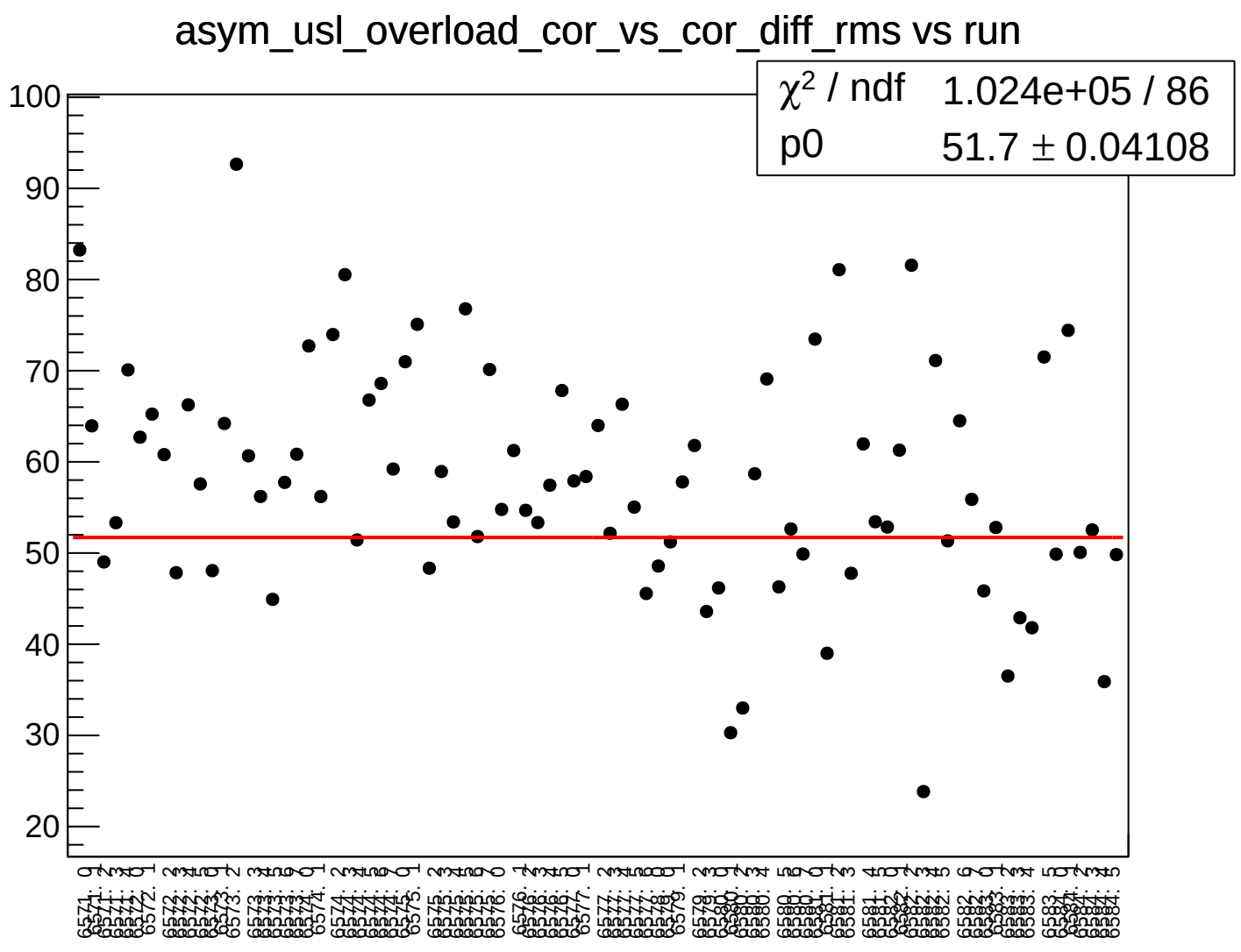

pull1D
Entries 87
Mean −0.05912
Std Dev 0.999

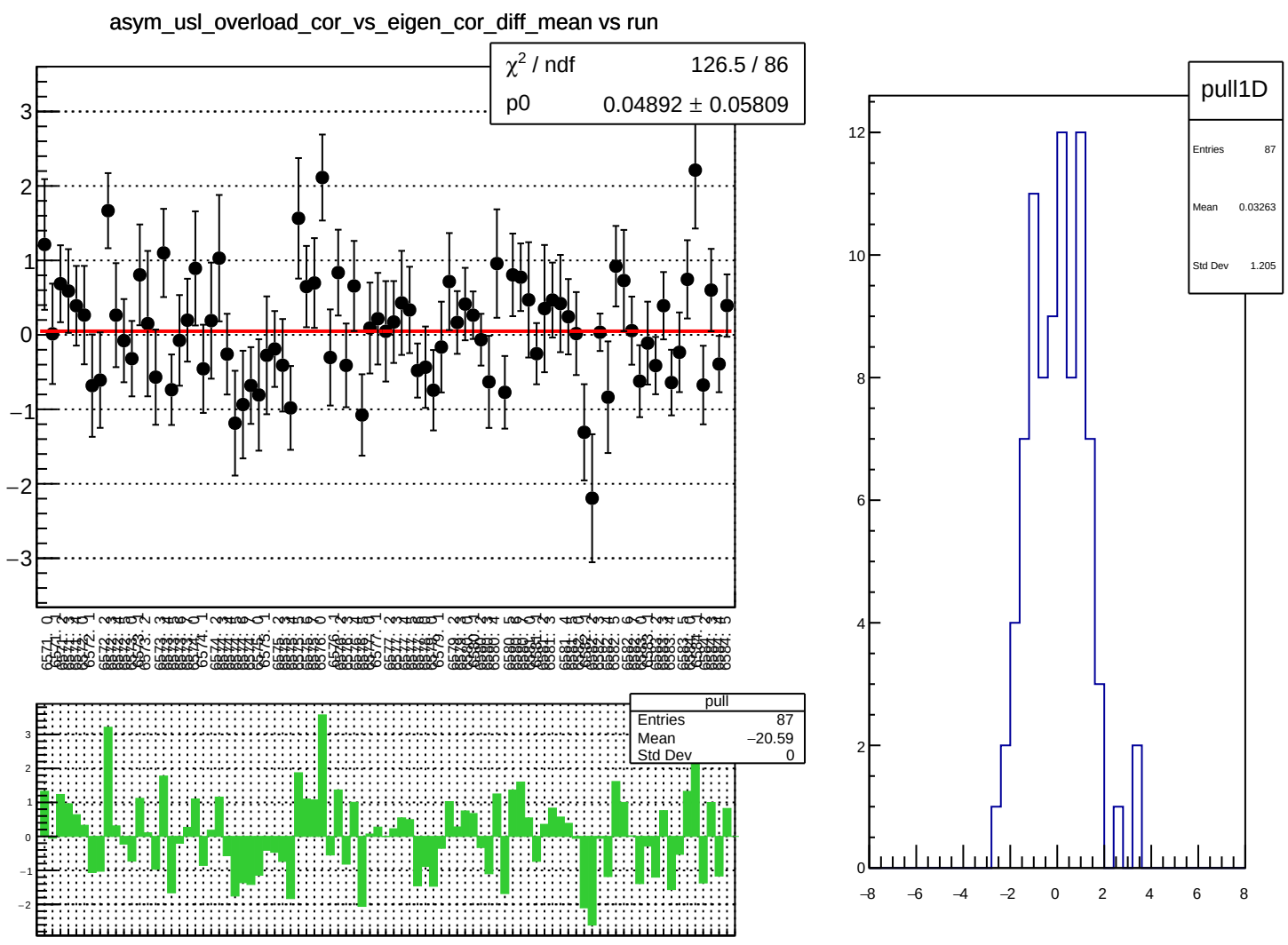

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.29e+05 / 86
p0 1.16e−11 ± 1.128e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

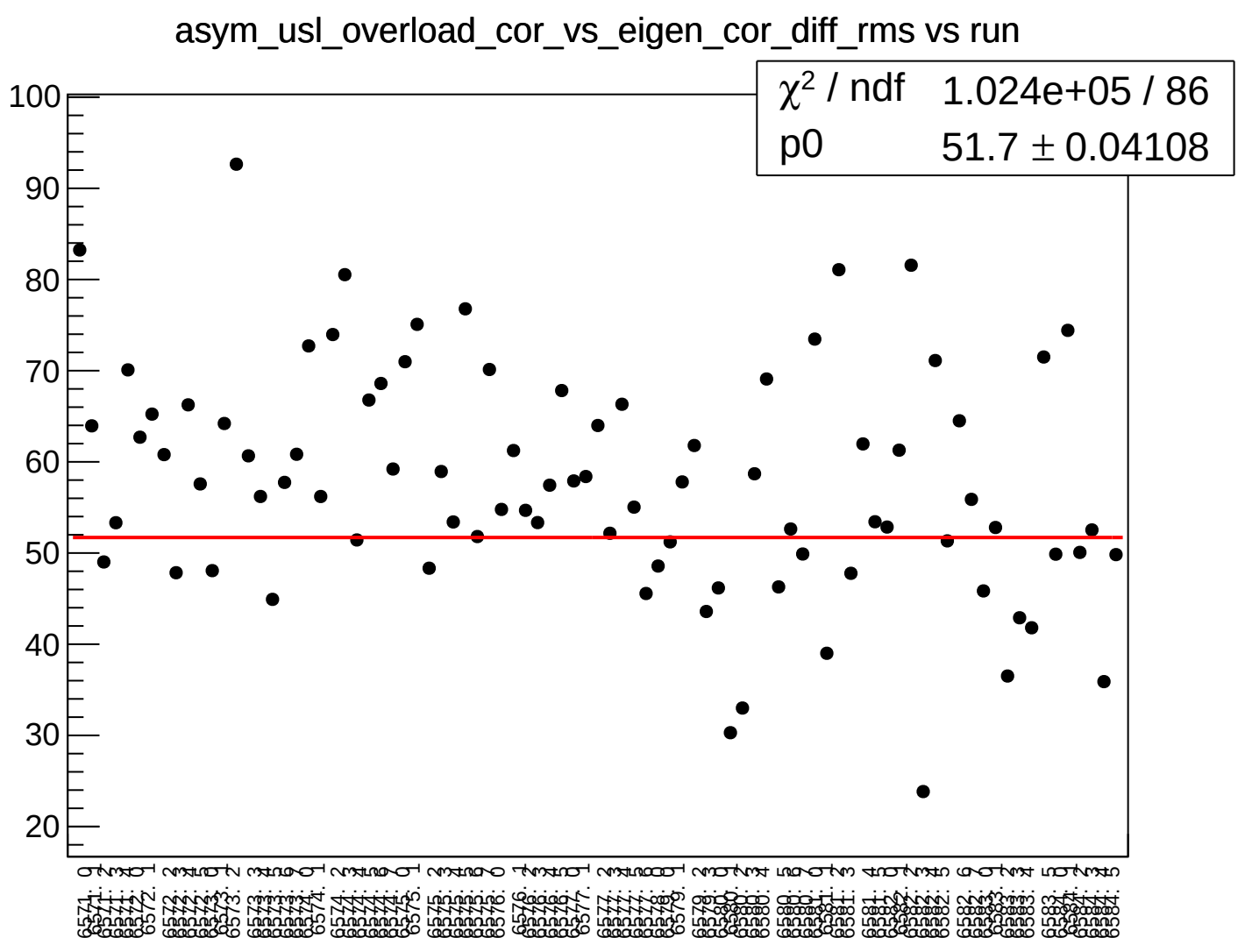
asym_usl_overload_cor_vs_cor_diff_mean vs run

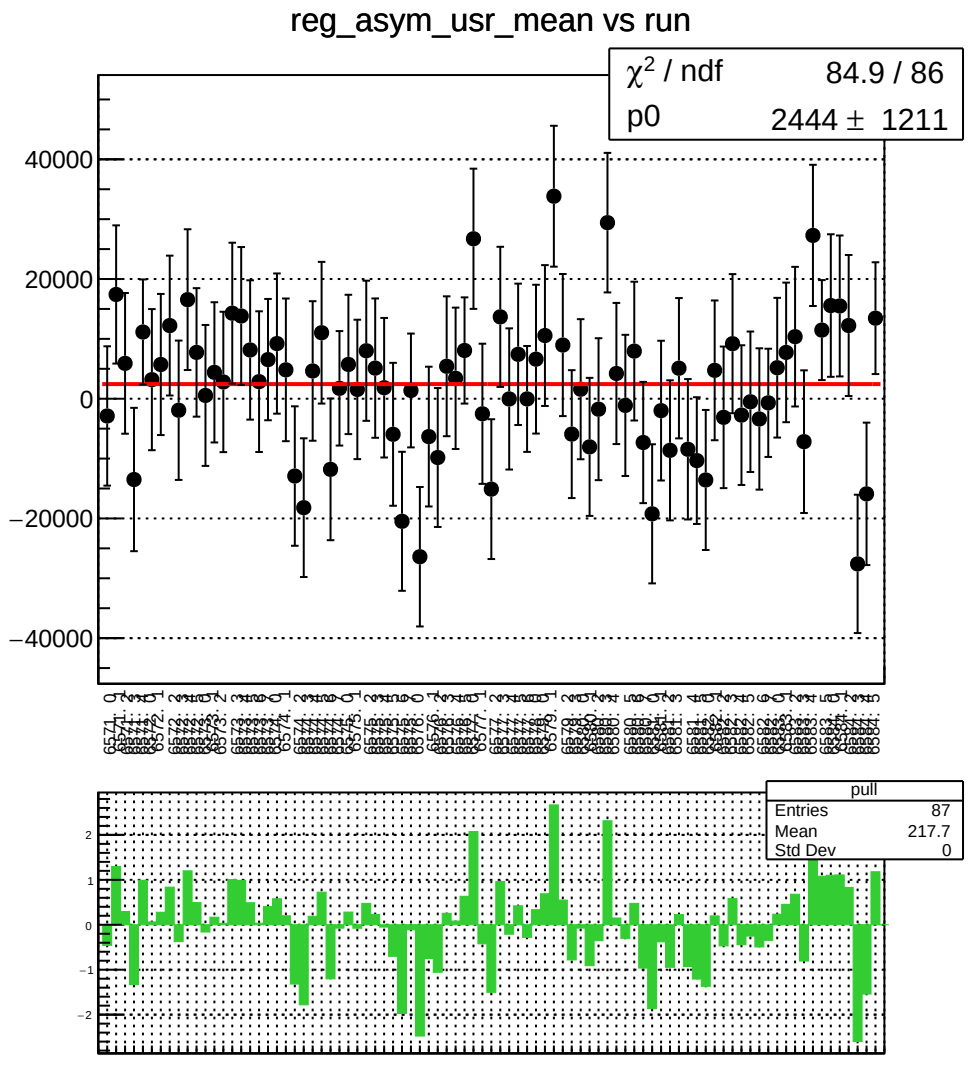


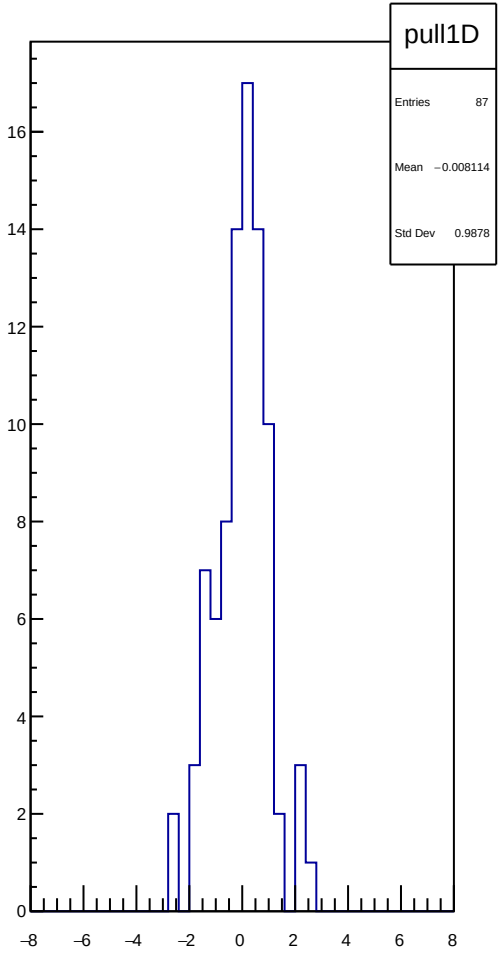


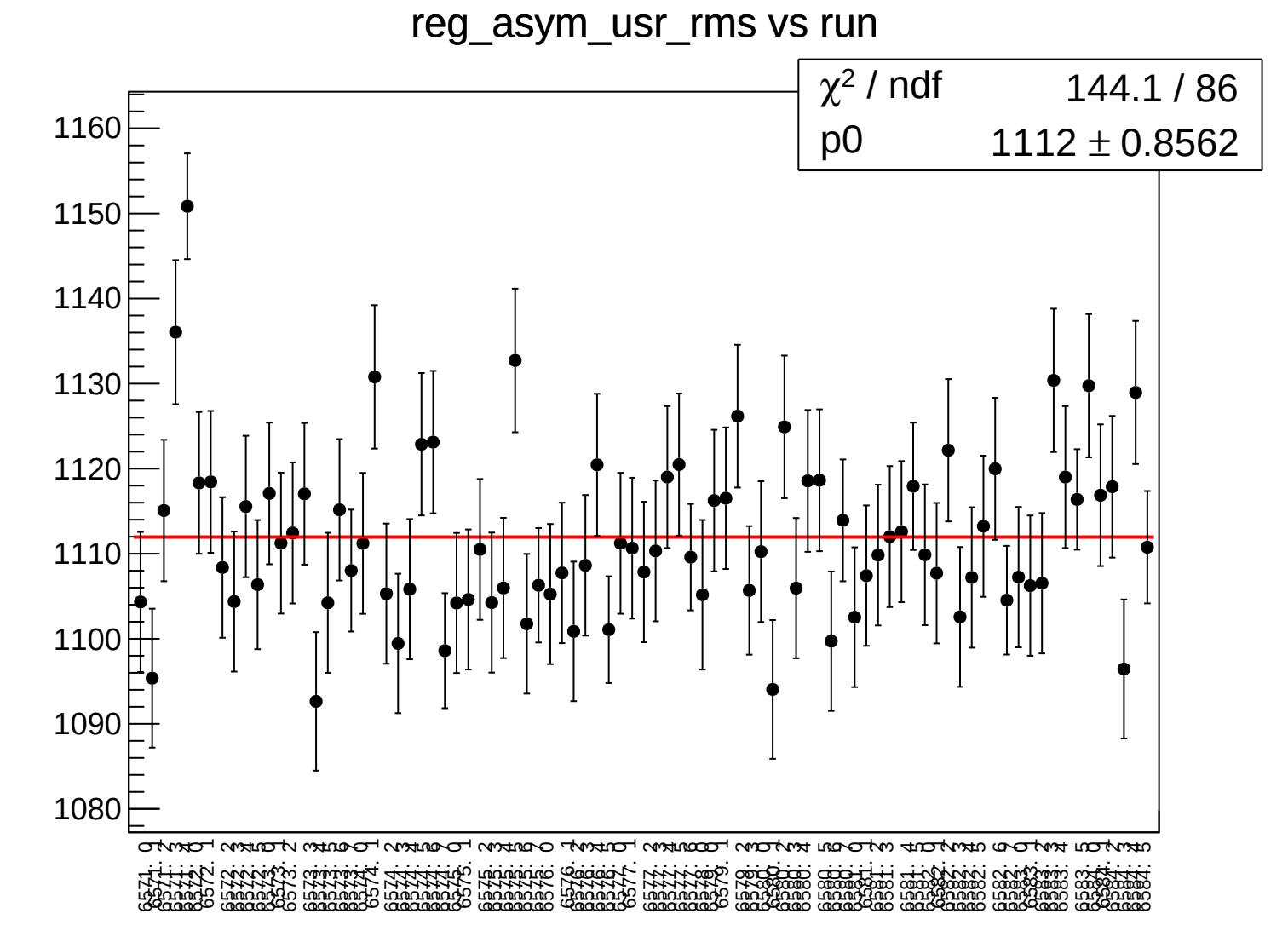

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.024e+05 / 86
p0 51.7 ± 0.04108
100
90
80
70
60
50
40
30
20

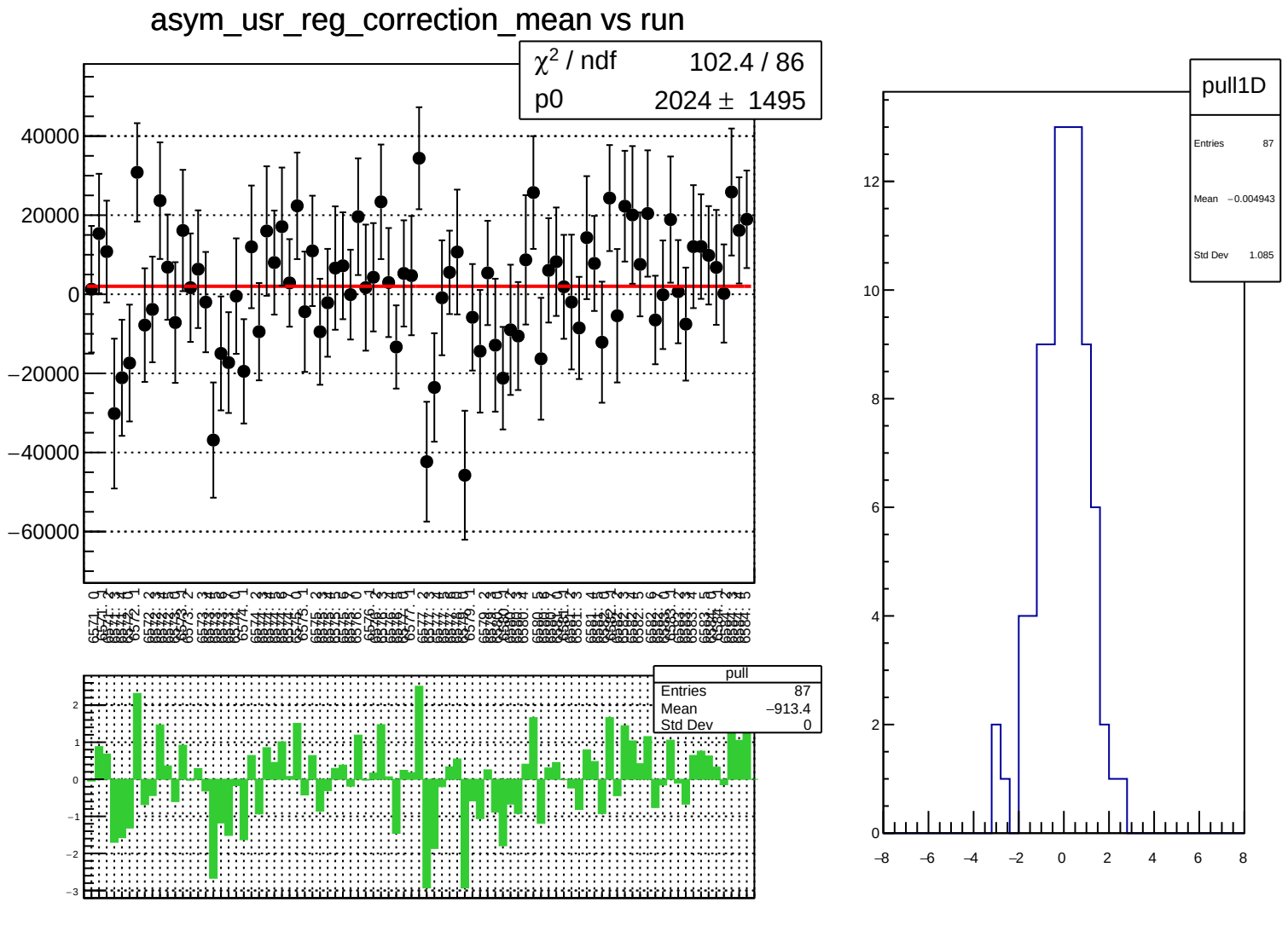

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.5 / 86
p0 0.04892 ± 0.05809
pull
Entries 87
Mean −20.59
Std Dev 0
pull1D
Entries 87
Mean 0.03263
Std Dev 1.205

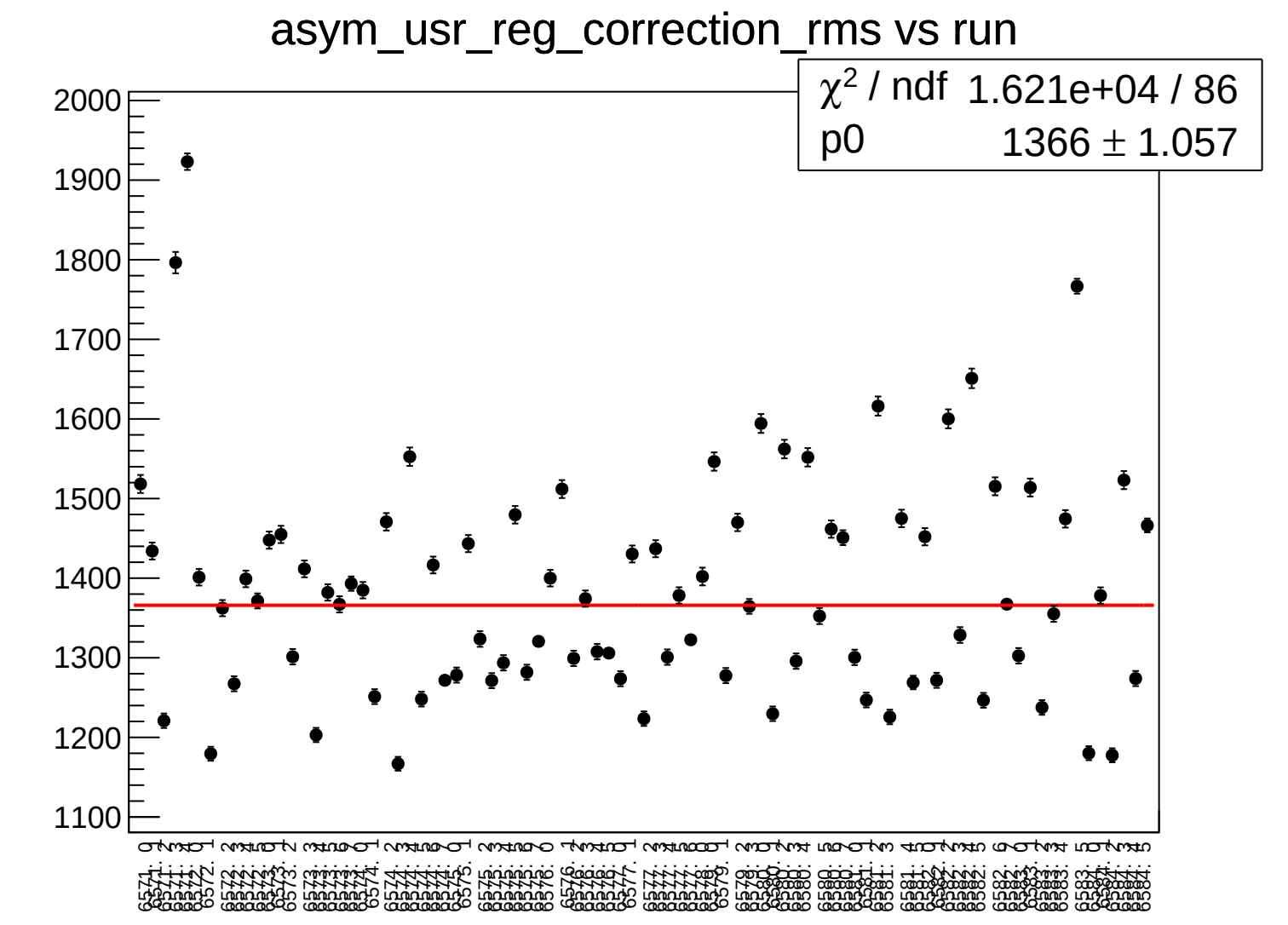

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.024e+05 / 86
p0 51.7 ± 0.04108
100
90
80
70
60
50
40
30
20

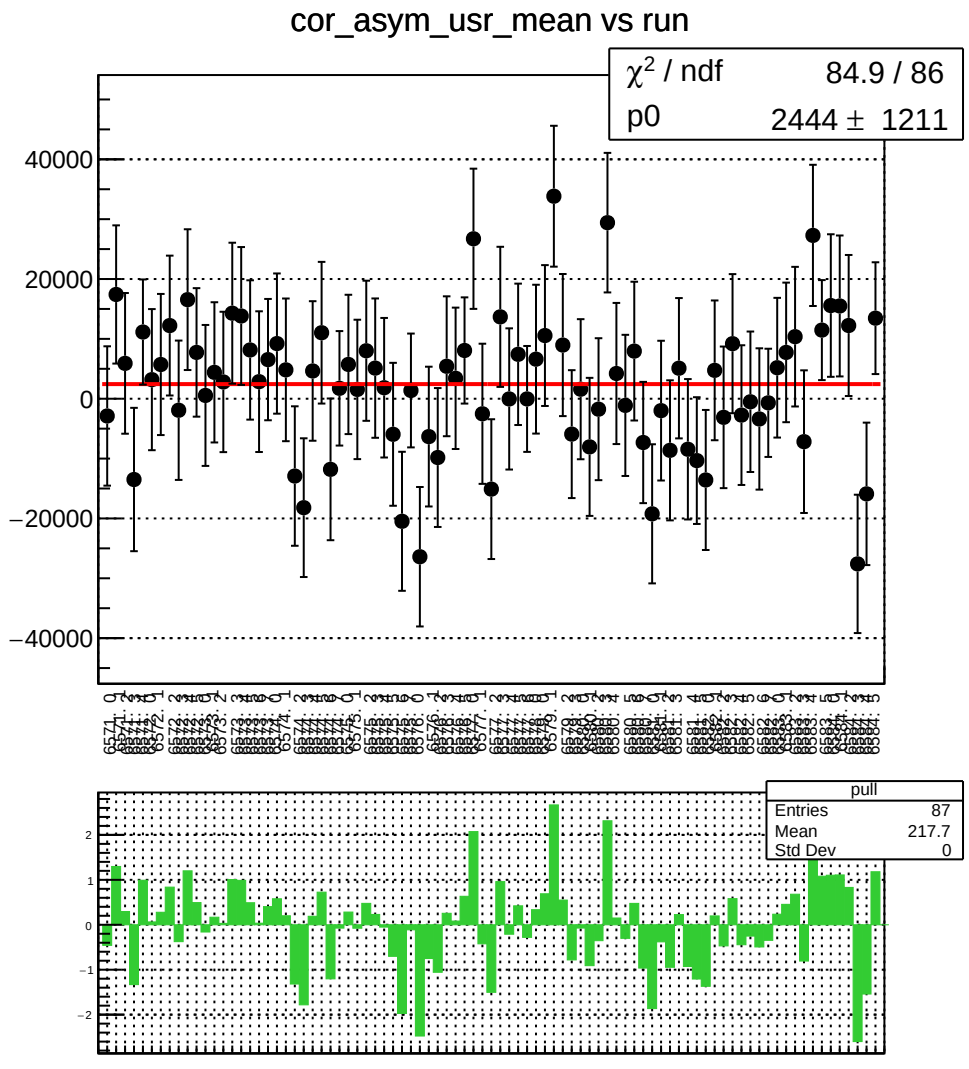

reg_asym_usr_mean vs run
χ² / ndf 84.9 / 86
p0 2444 ± 1211
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 217.7
Std Dev 0
2
1
0
−1
−2

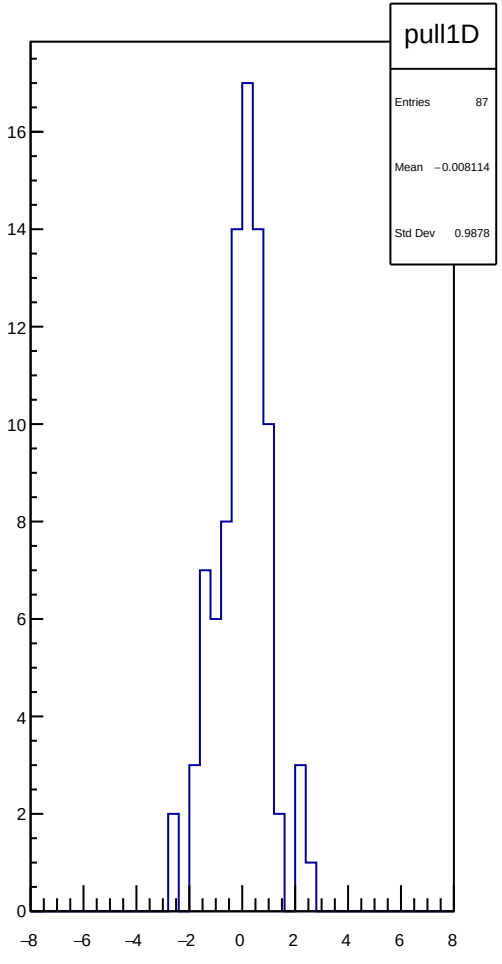

pull1D
Entries 87
Mean −0.008114
Std Dev 0.9878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

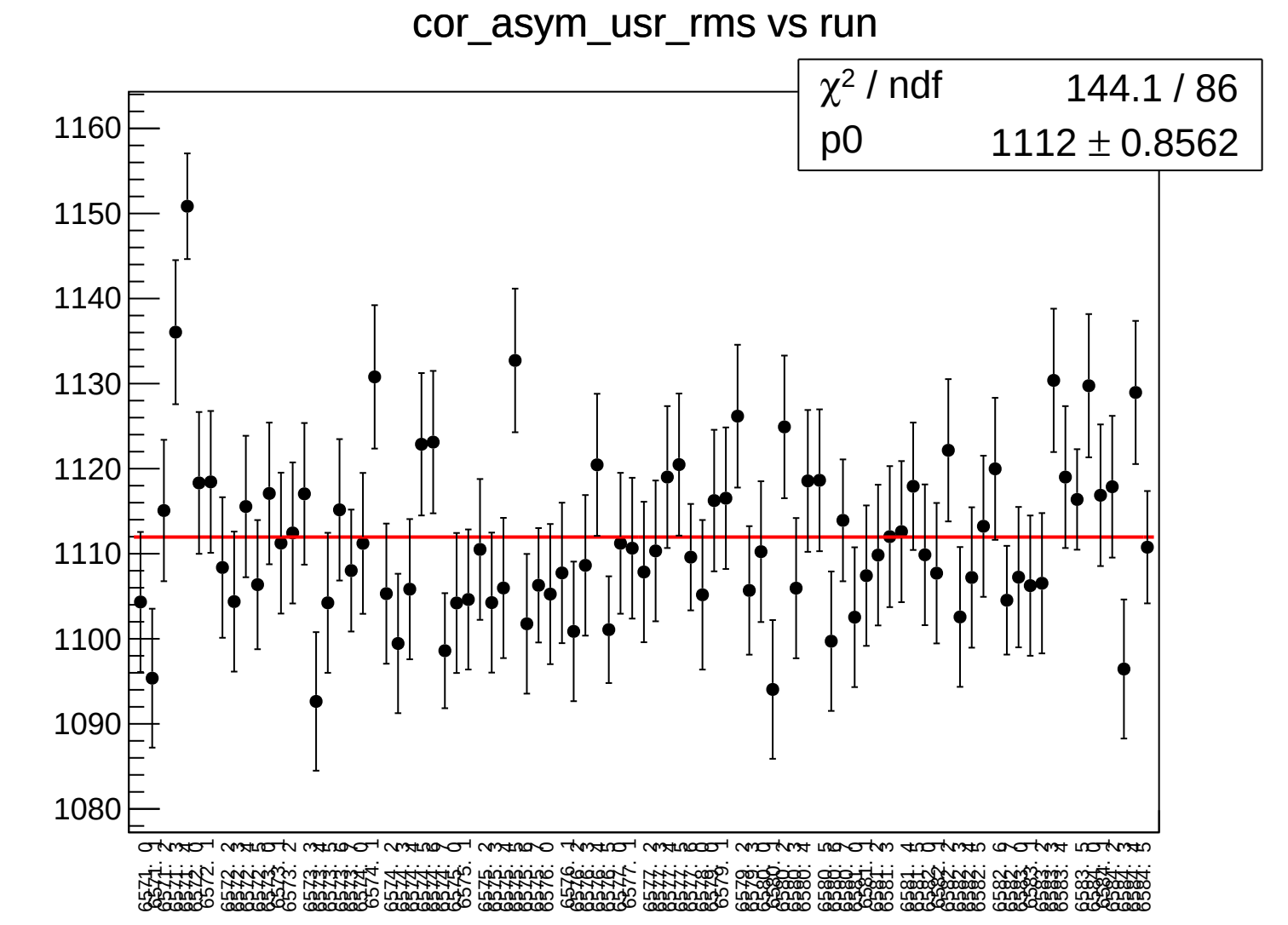

reg_asym_usr_rms vs run
χ² / ndf 144.1 / 86
p0 1112 ± 0.8562
1160
1150
1140
1130
1120
1110
1100
1090
1080

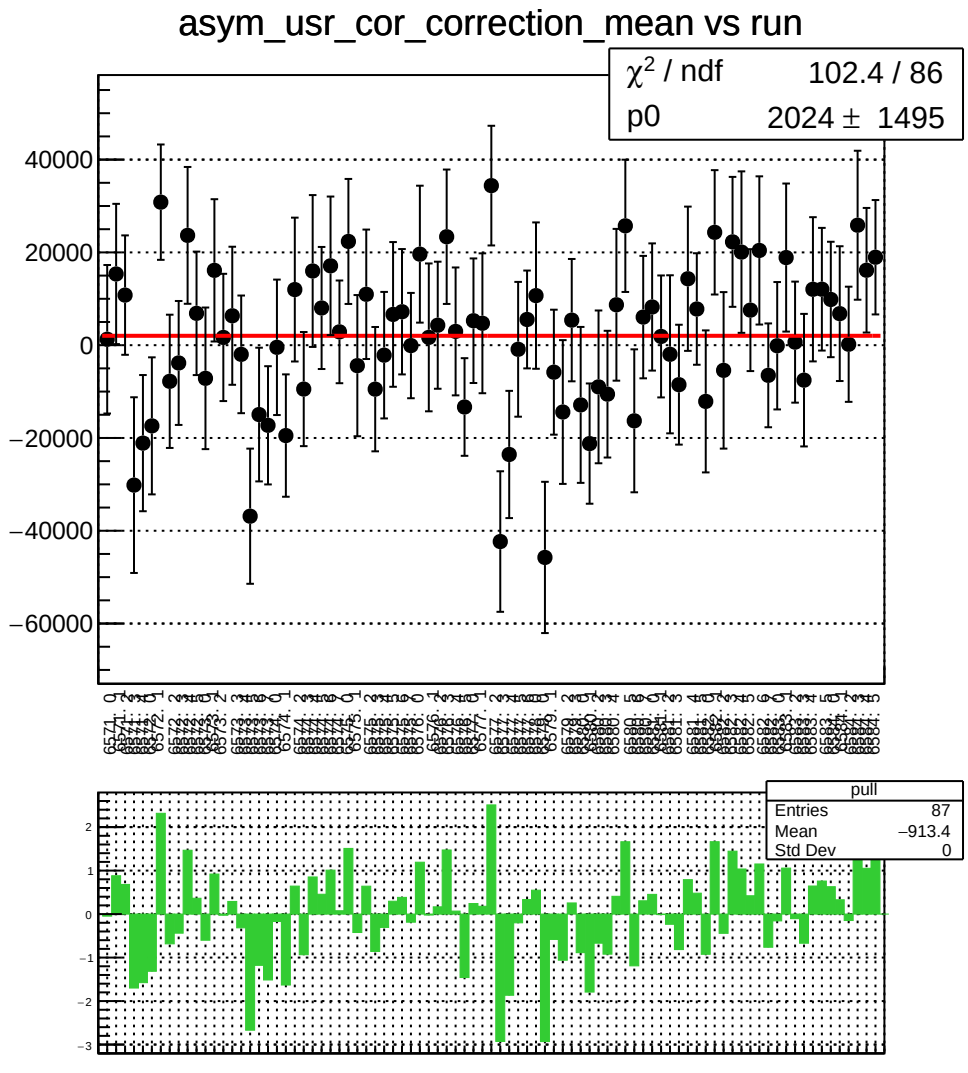

asym_usr_reg_correction_mean vs run
χ² / ndf 102.4 / 86
p0 2024 ± 1495
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −913.4
Std Dev 0
pull1D
Entries 87
Mean −0.004943
Std Dev 1.085

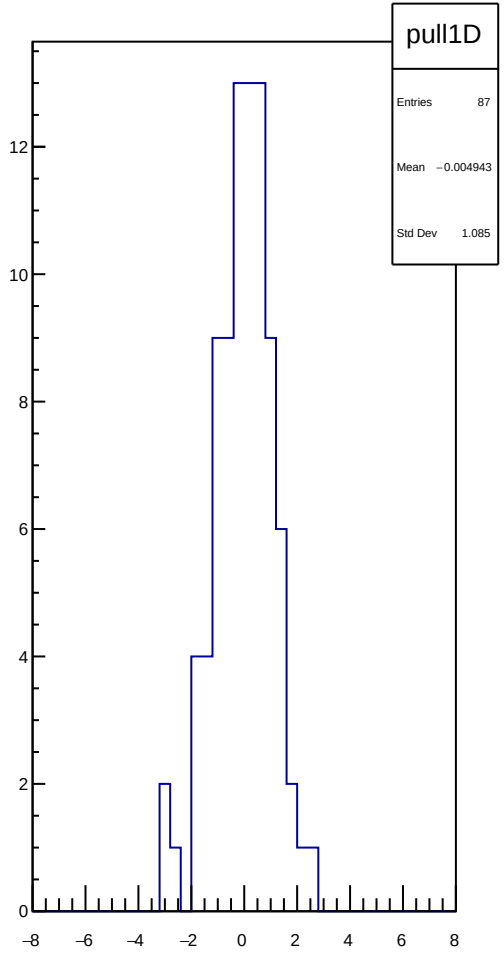

asym_usr_reg_correction_rms vs run
χ² / ndf 1.621e+04 / 86
p0 1366 ± 1.057
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

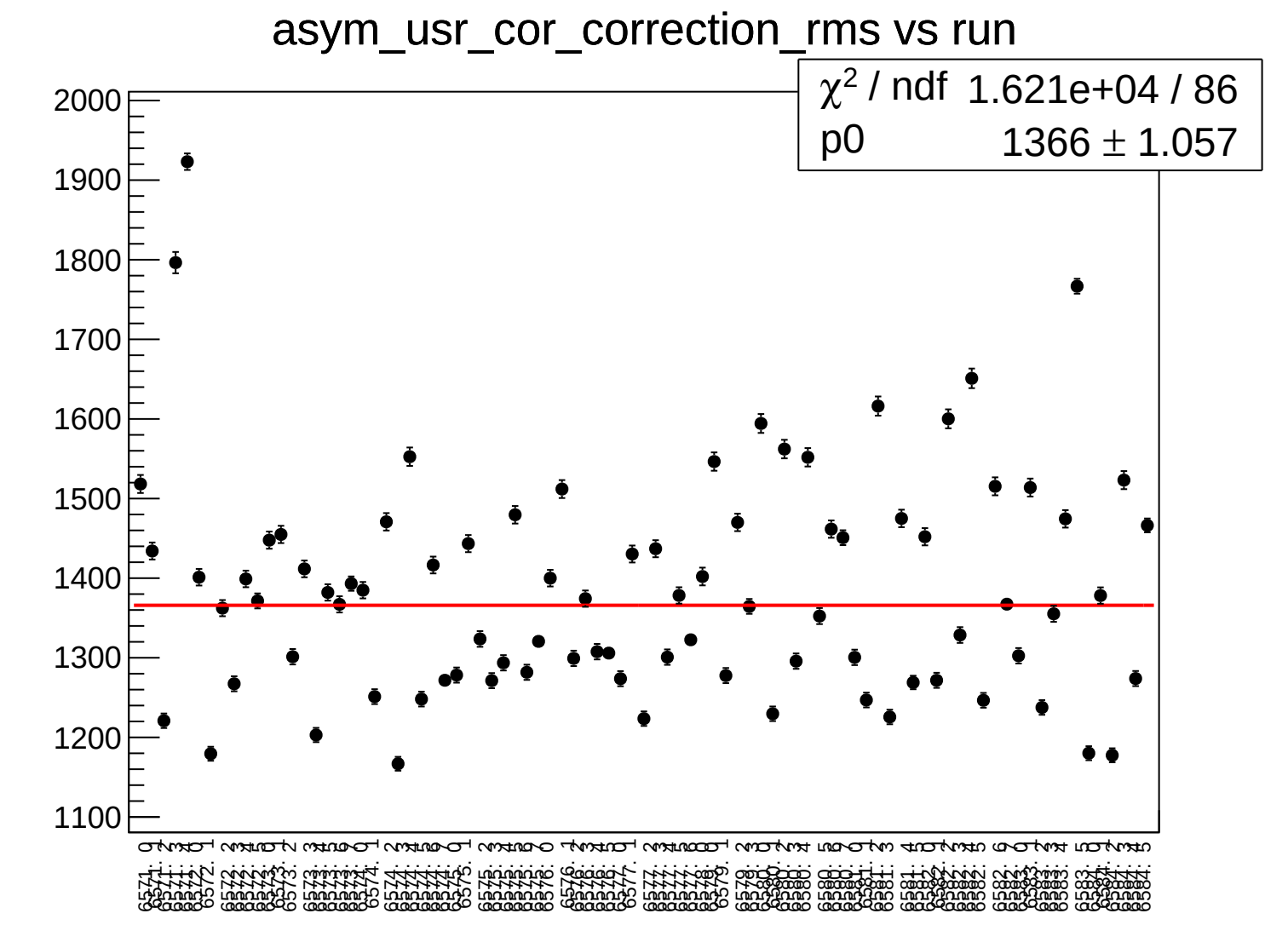

cor_asym_usr_mean vs run
χ² / ndf 84.9 / 86
p0 2444 ± 1211
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 217.7
Std Dev 0
2
1
0
−1
−2

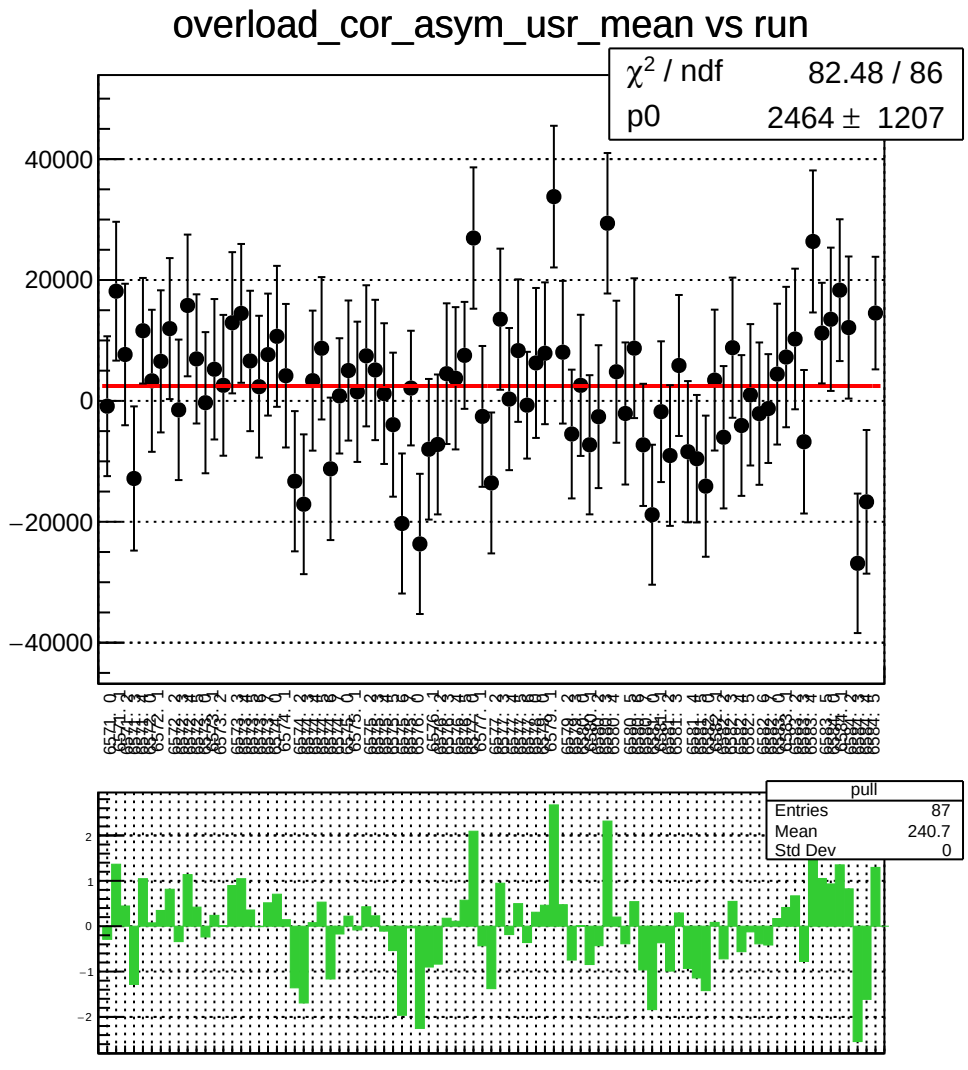

pull1D
Entries 87
Mean −0.008114
Std Dev 0.9878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

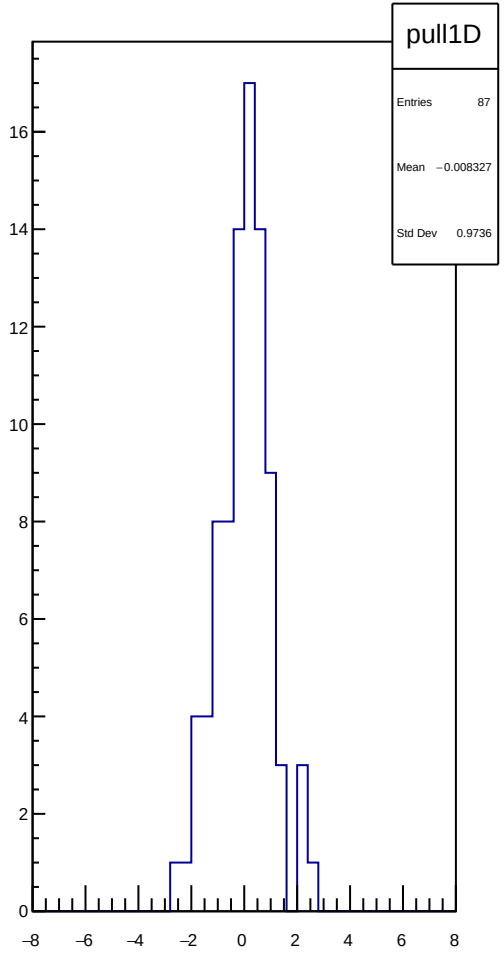

cor_asym_usr_rms vs run
χ² / ndf 144.1 / 86
p0 1112 ± 0.8562
1160
1150
1140
1130
1120
1110
1100
1090
1080

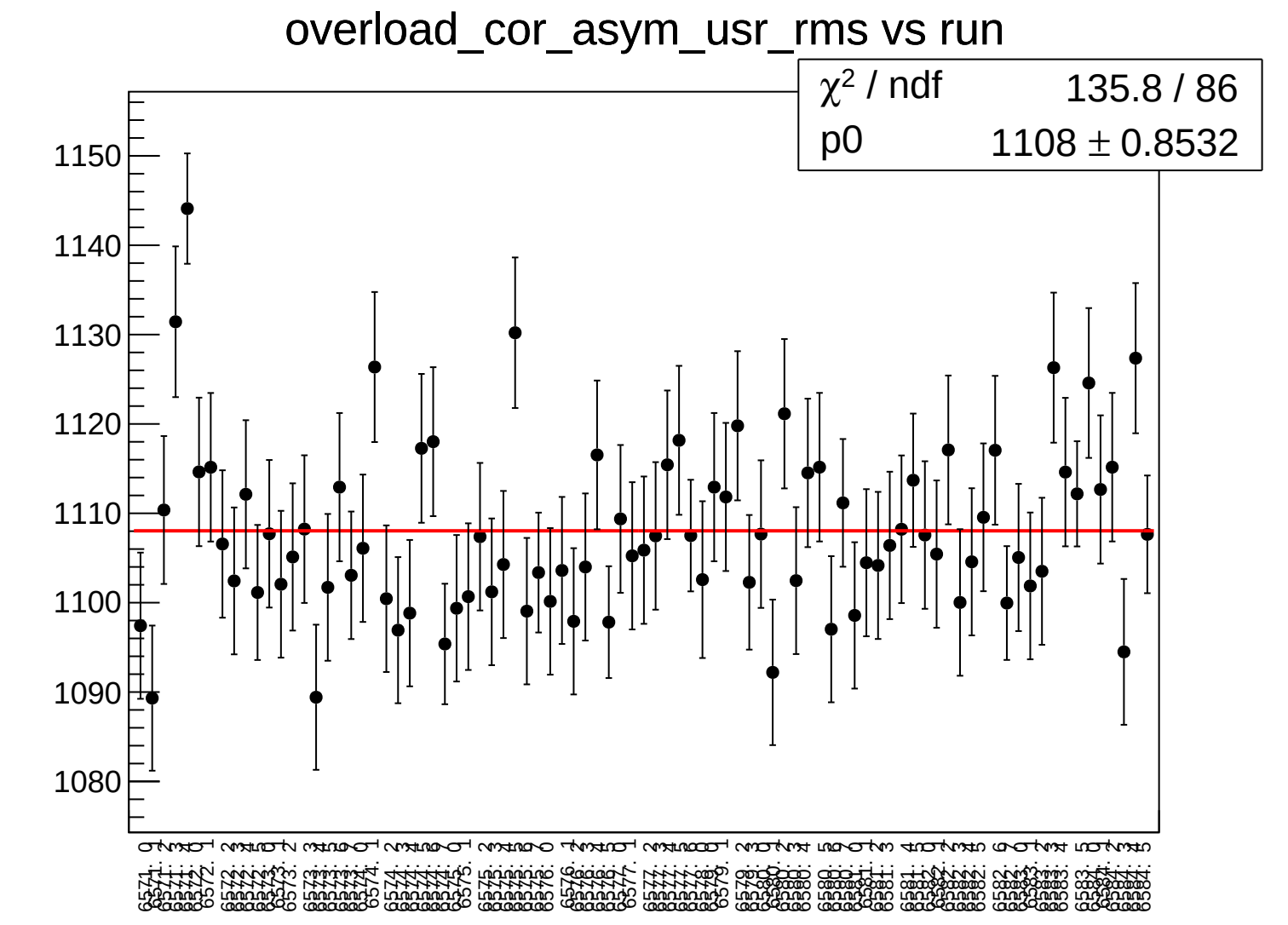

asym_usr_cor_correction_mean vs run
χ² / ndf 102.4 / 86
p0 2024 ± 1495
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −913.4
Std Dev 0
2
1
0
−1
−2
−3

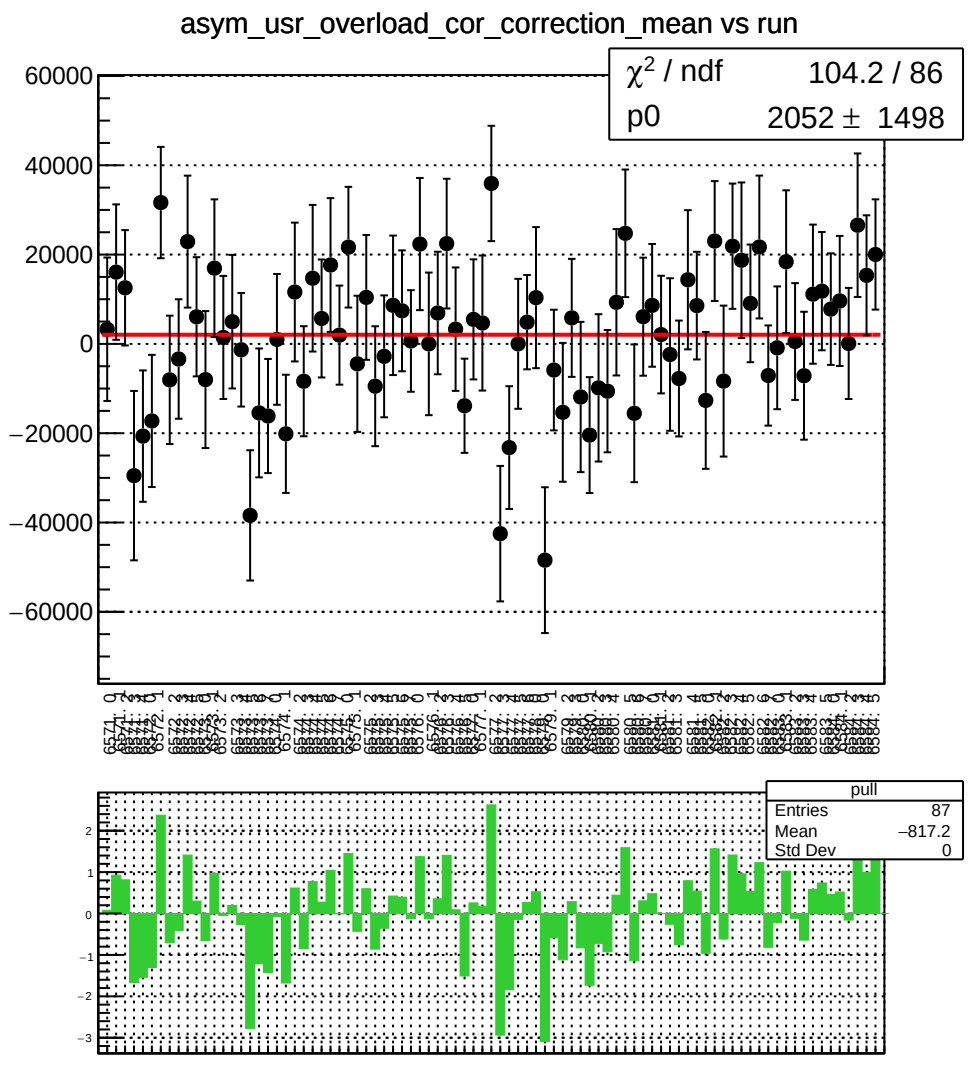

pull1D
Entries 87
Mean −0.004943
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

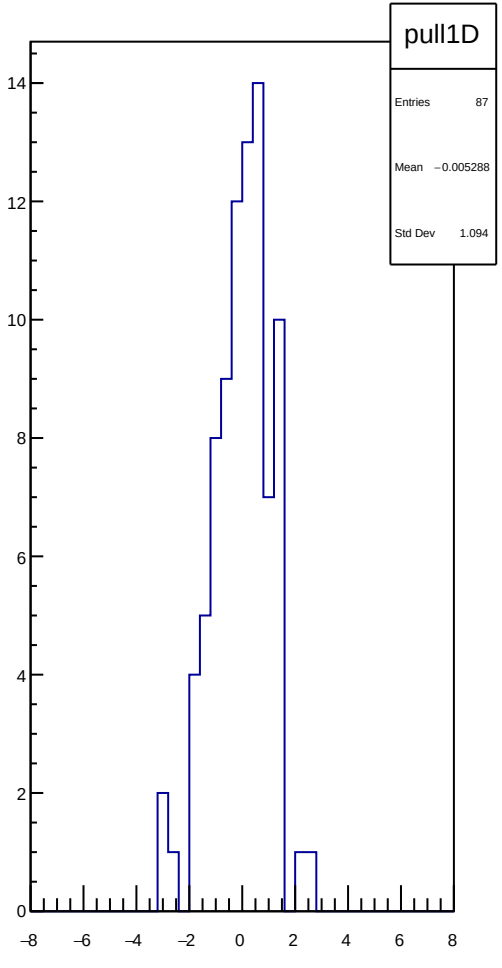

asym_usr_cor_correction_rms vs run
χ² / ndf 1.621e+04 / 86
p0 1366 ± 1.057
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

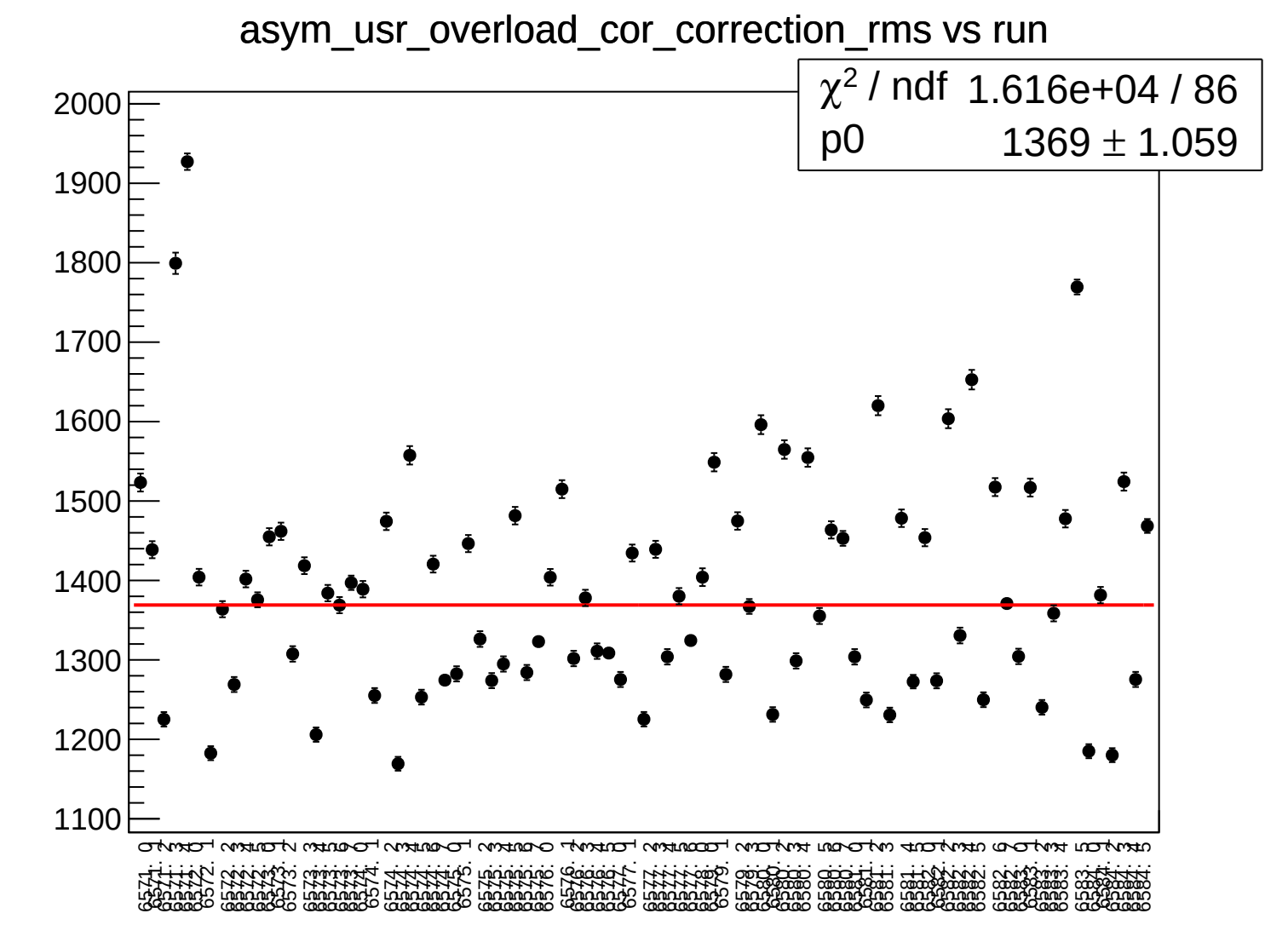

overload_cor_asym_usr_mean vs run
χ² / ndf 82.48 / 86
p0 2464 ± 1207
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 240.7
Std Dev 0
2
1
0
−1
−2

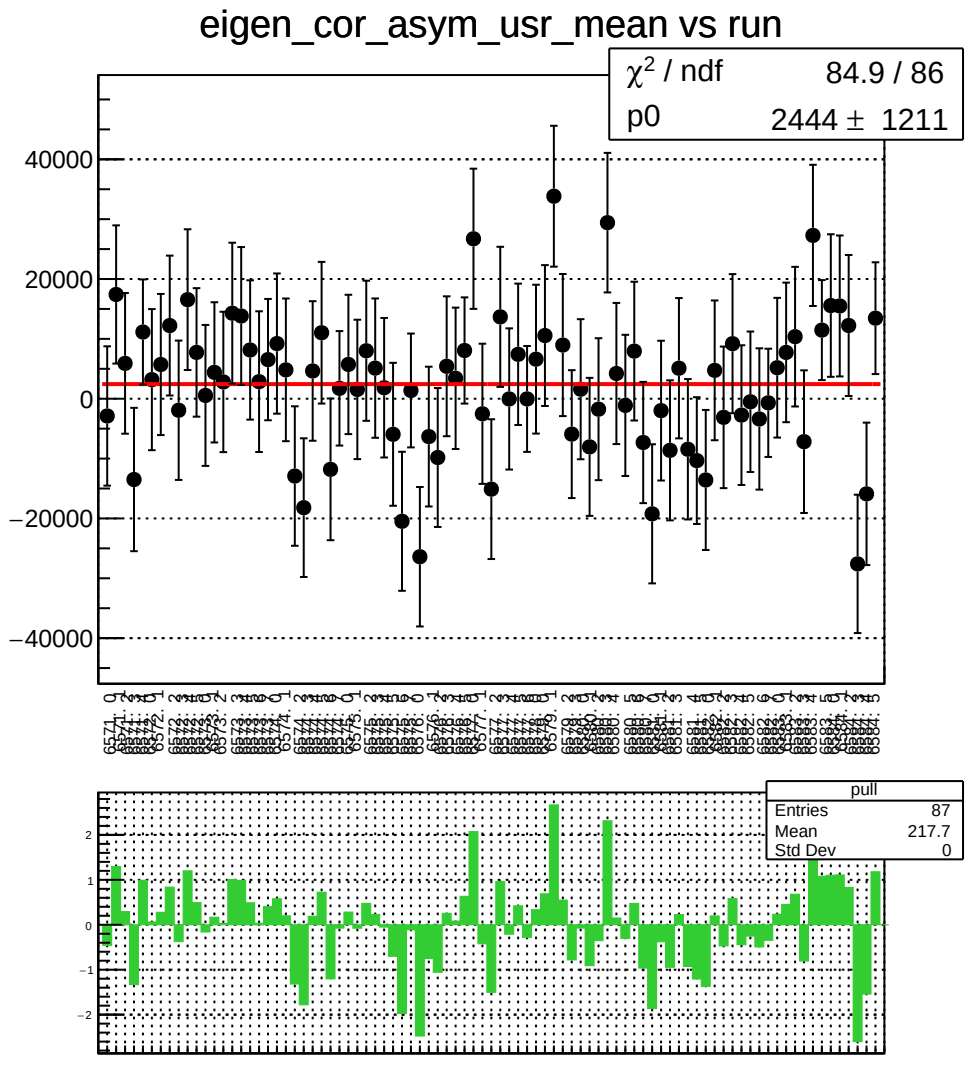

pull1D
Entries 87
Mean −0.008327
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

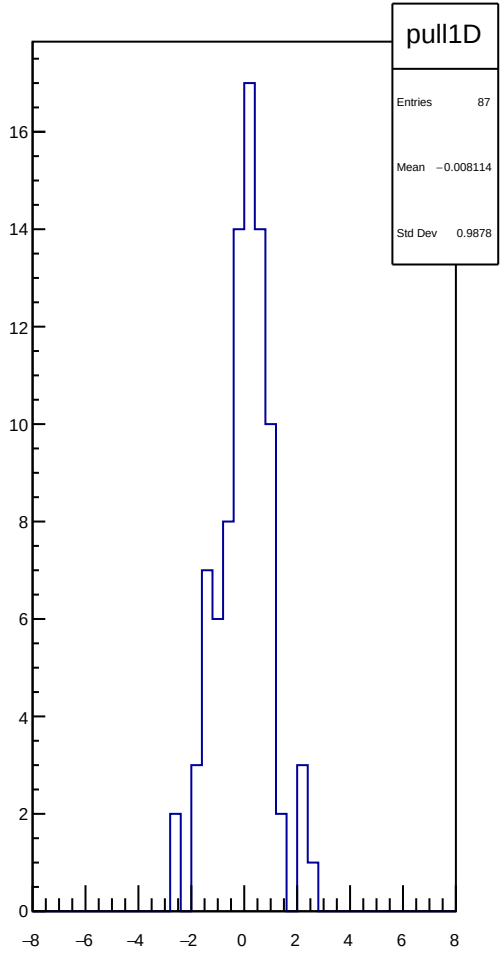

overload_cor_asym_usr_rms vs run
χ² / ndf 135.8 / 86
p0 1108 ± 0.8532
1150
1140
1130
1120
1110
1100
1090
1080

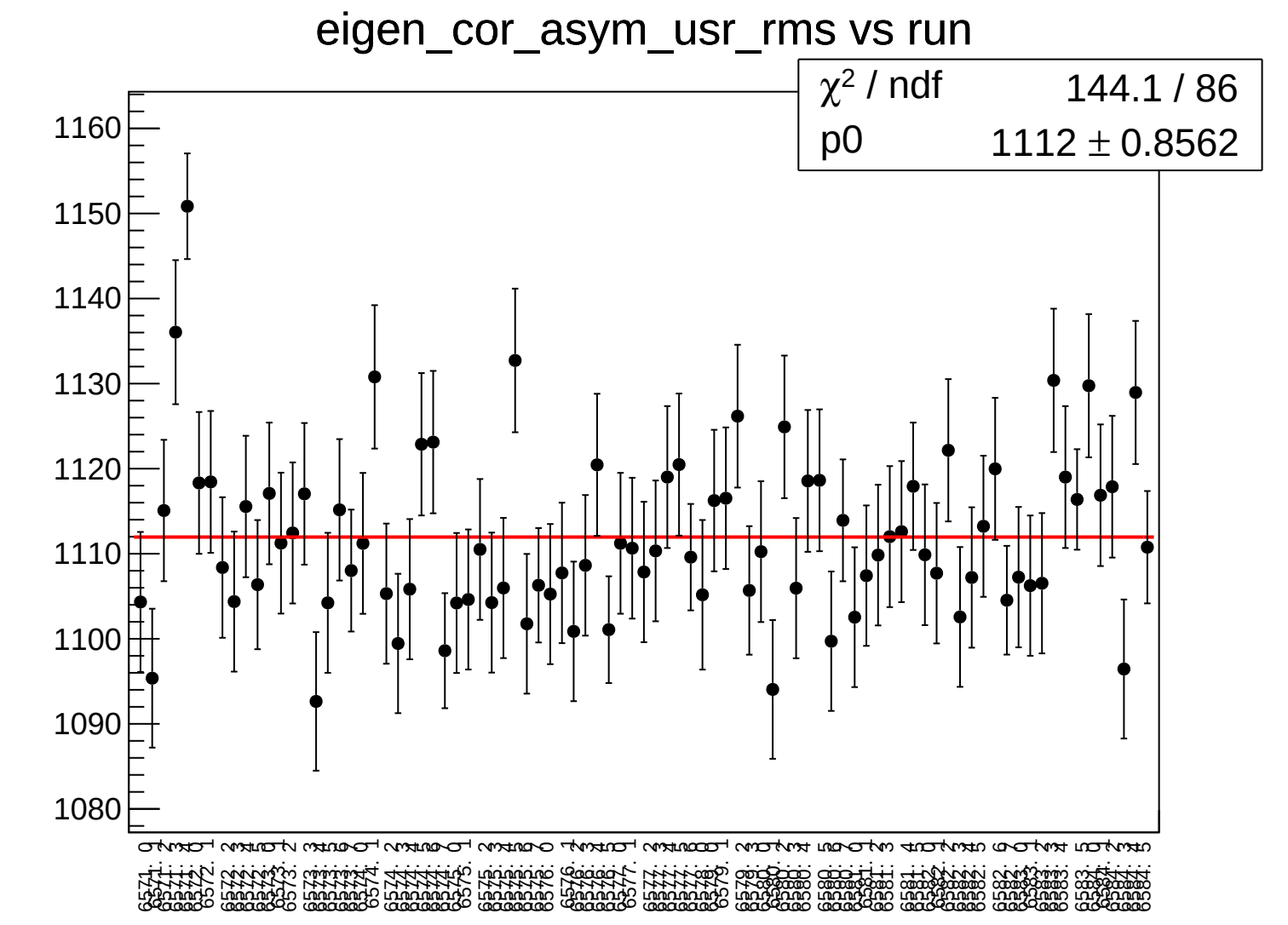

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 104.2 / 86
p0 2052 ± 1498
pull
Entries 87
Mean −817.2
Std Dev 0

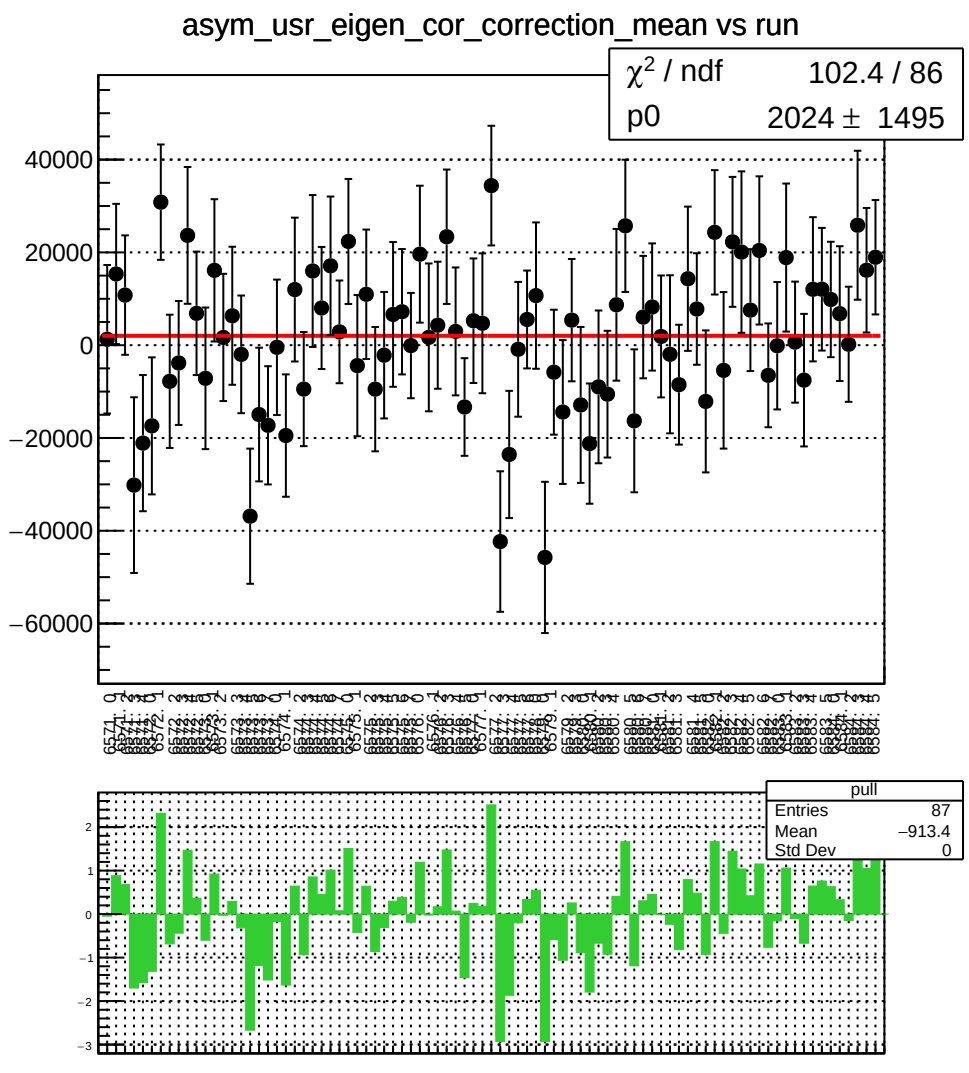

pull1D
Entries 87
Mean −0.005288
Std Dev 1.094

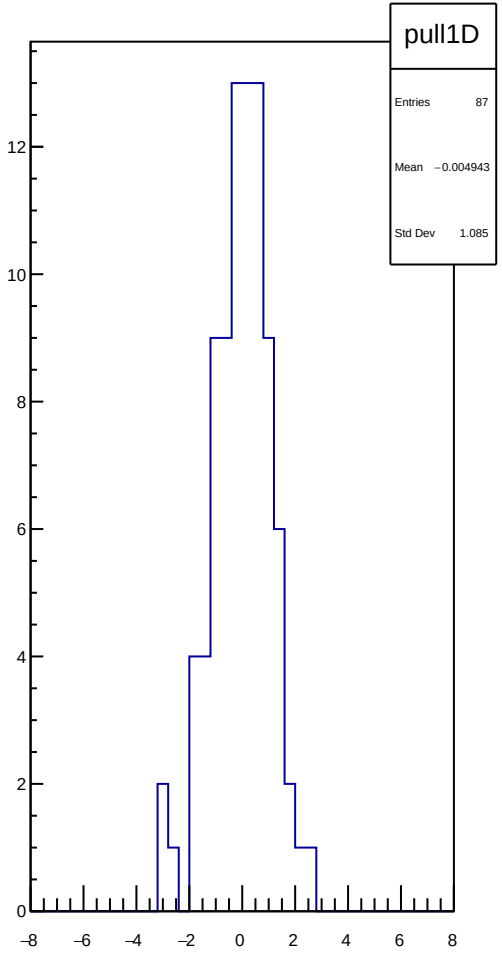

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.616e+04 / 86
p0 1369 ± 1.059
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

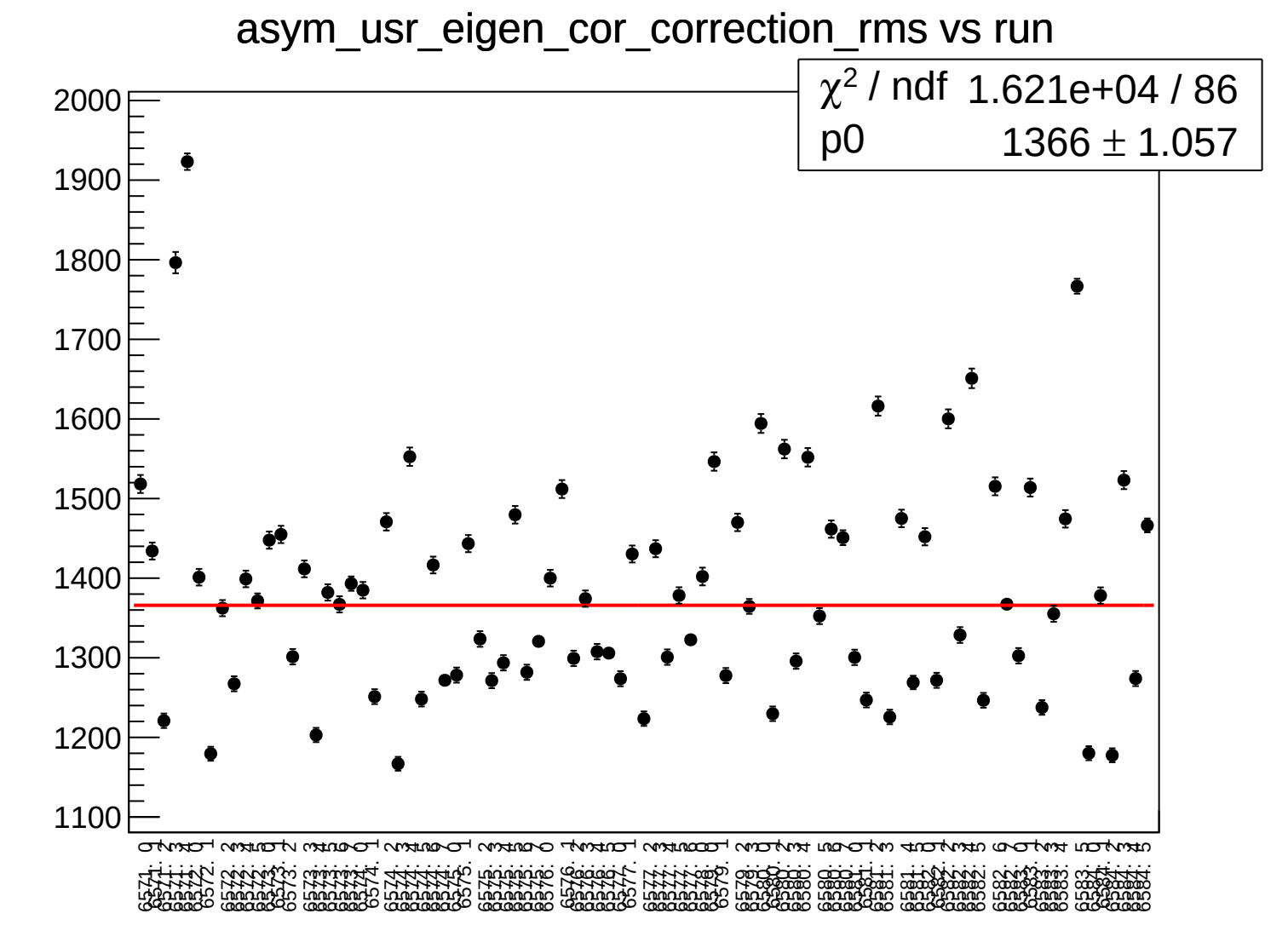

eigen_cor_asym_usr_mean vs run
χ² / ndf 84.9 / 86
p0 2444 ± 1211
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 217.7
Std Dev 0
2
1
0
−1
−2

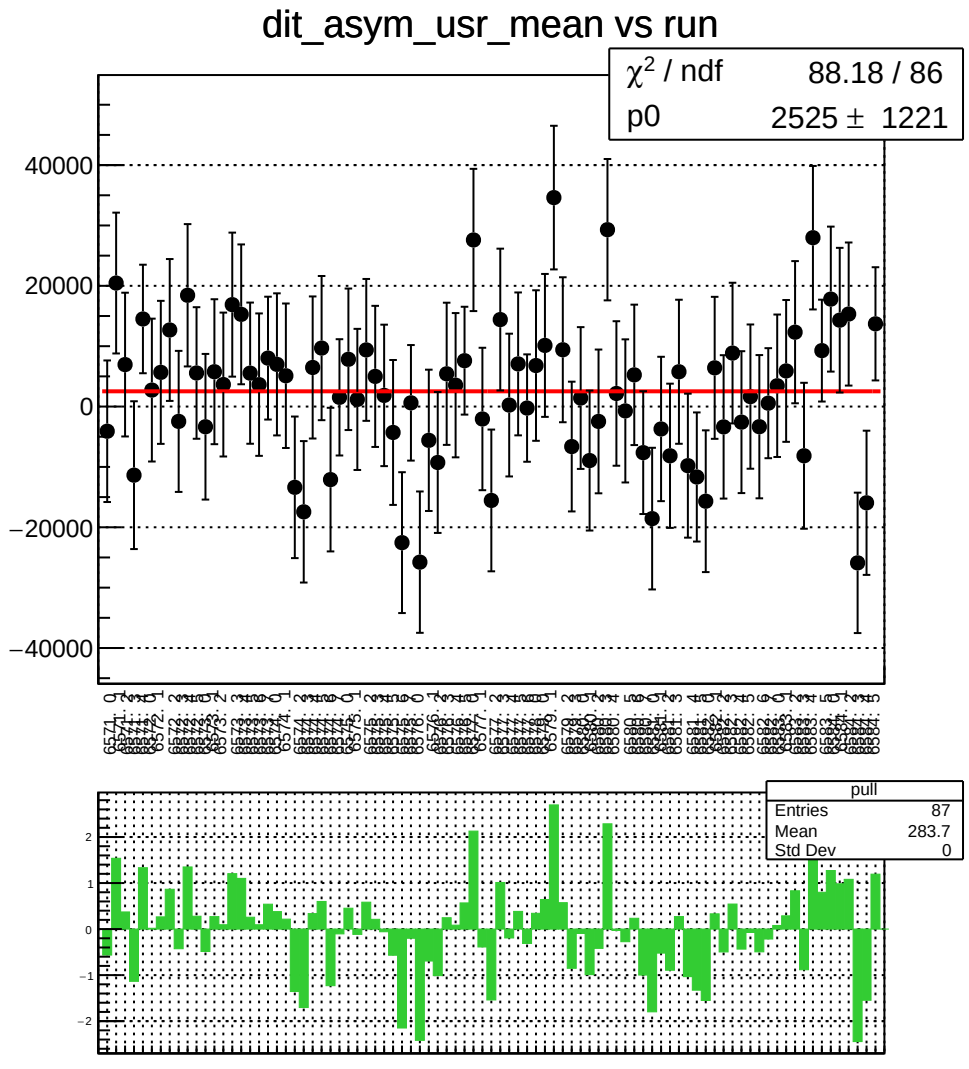

pull1D
Entries 87
Mean −0.008114
Std Dev 0.9878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

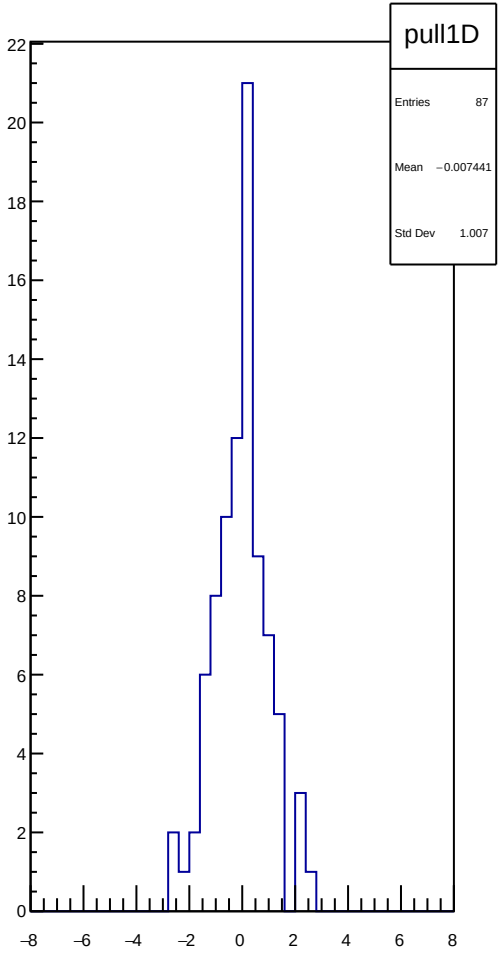

eigen_cor_asym_usr_rms vs run
χ² / ndf 144.1 / 86
p0 1112 ± 0.8562
1160
1150
1140
1130
1120
1110
1100
1090
1080

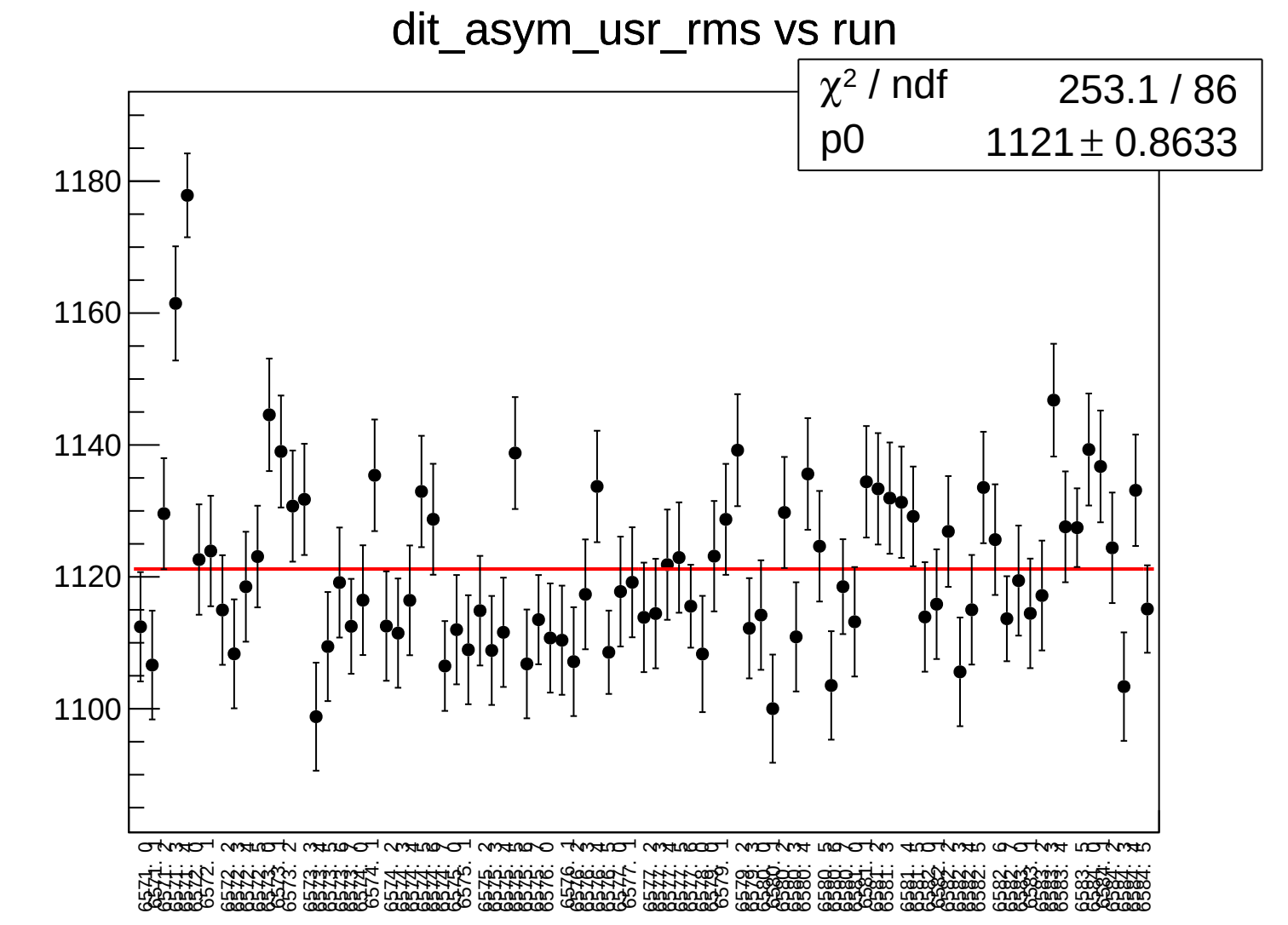

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 102.4 / 86
p0 2024 ± 1495
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −913.4
Std Dev 0
2
1
0
−1
−2
−3

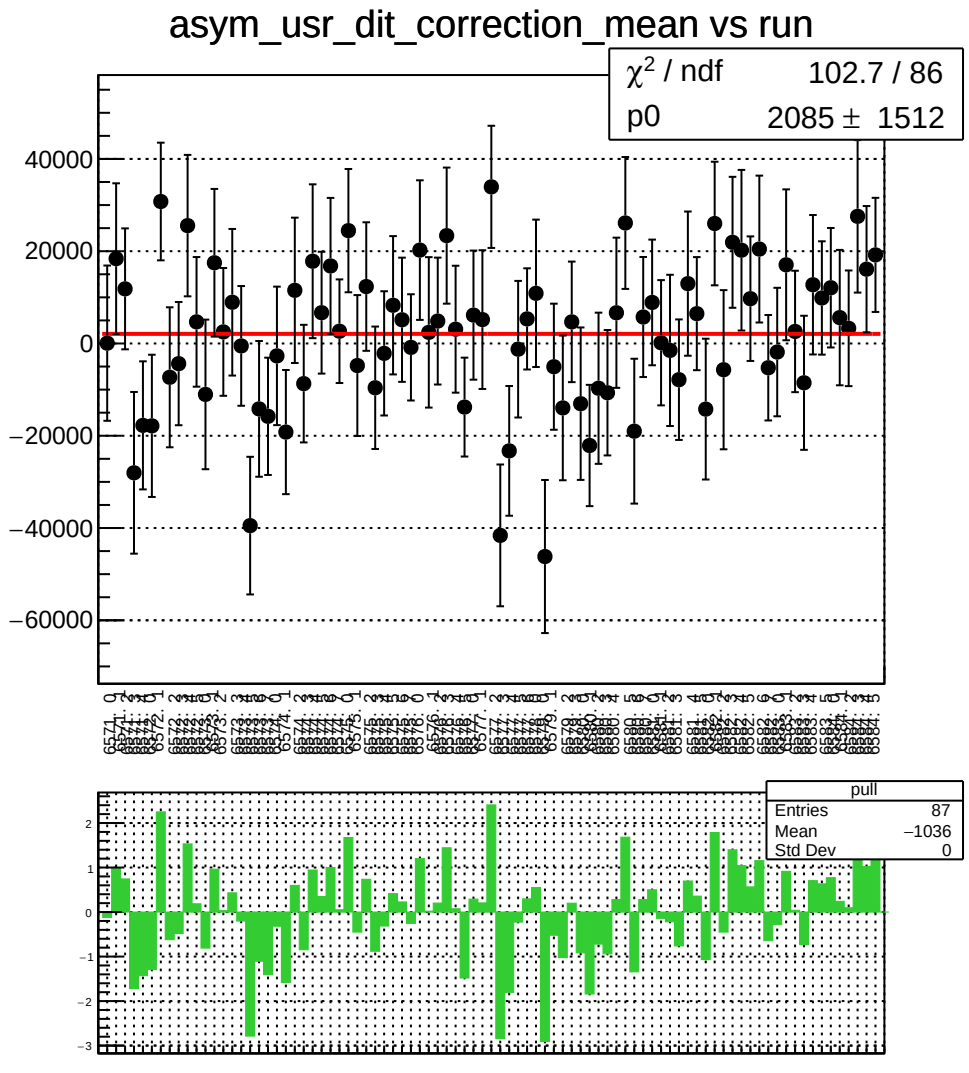

pull1D
Entries 87
Mean −0.004943
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

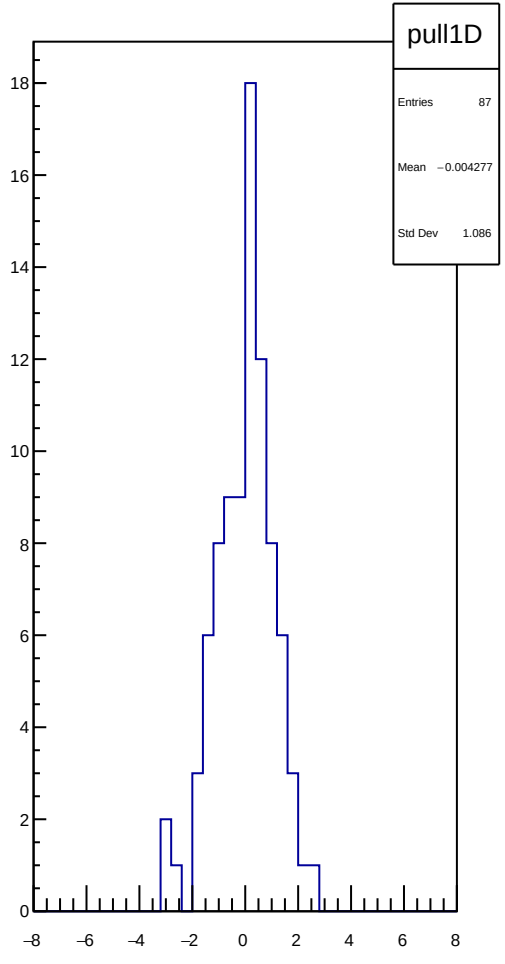

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.621e+04 / 86
p0 1366 ± 1.057
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

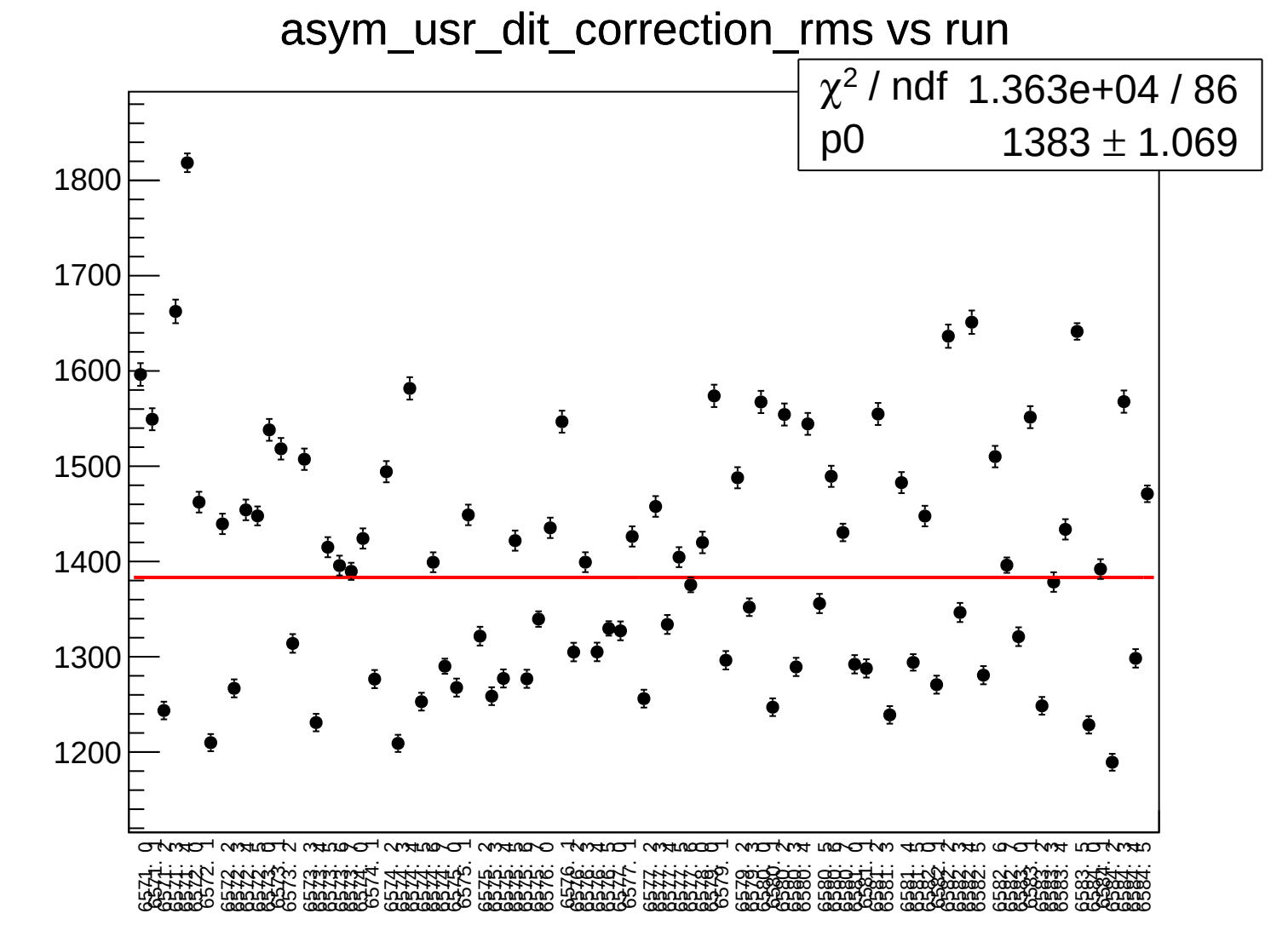

dit_asym_usr_mean vs run
χ² / ndf 88.18 / 86
p0 2525 ± 1221
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 283.7
Std Dev 0
2
1
0
−1
−2

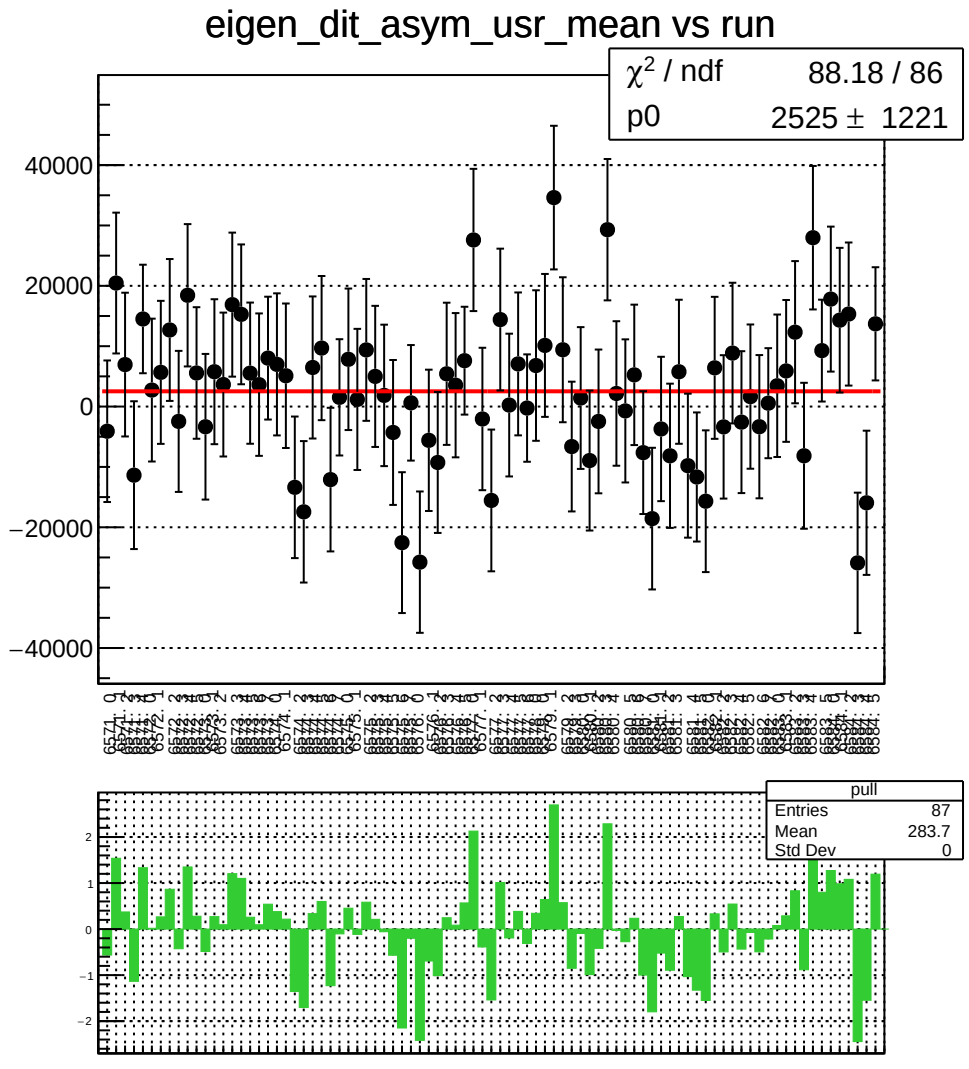

pull1D
Entries 87
Mean −0.007441
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

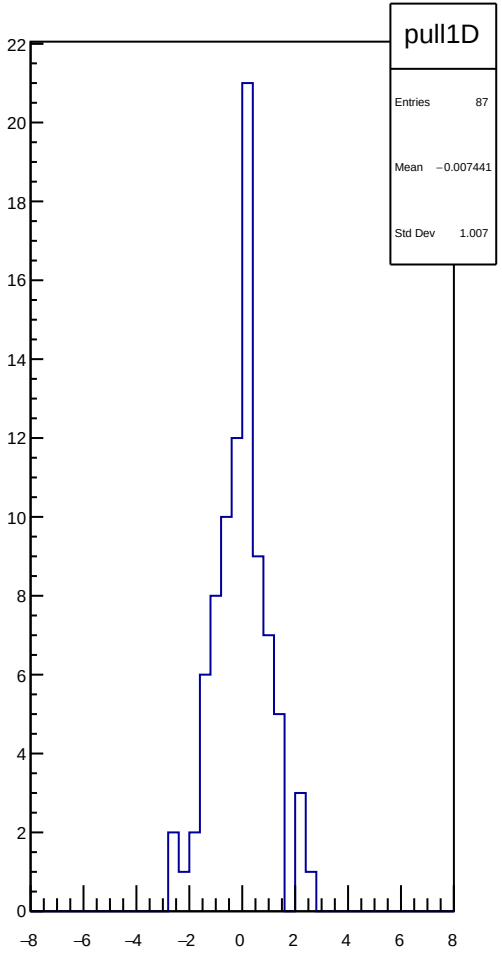

dit_asym_usr_rms vs run
χ² / ndf 253.1 / 86
p0 1121 ± 0.8633
1180
1160
1140
1120
1100

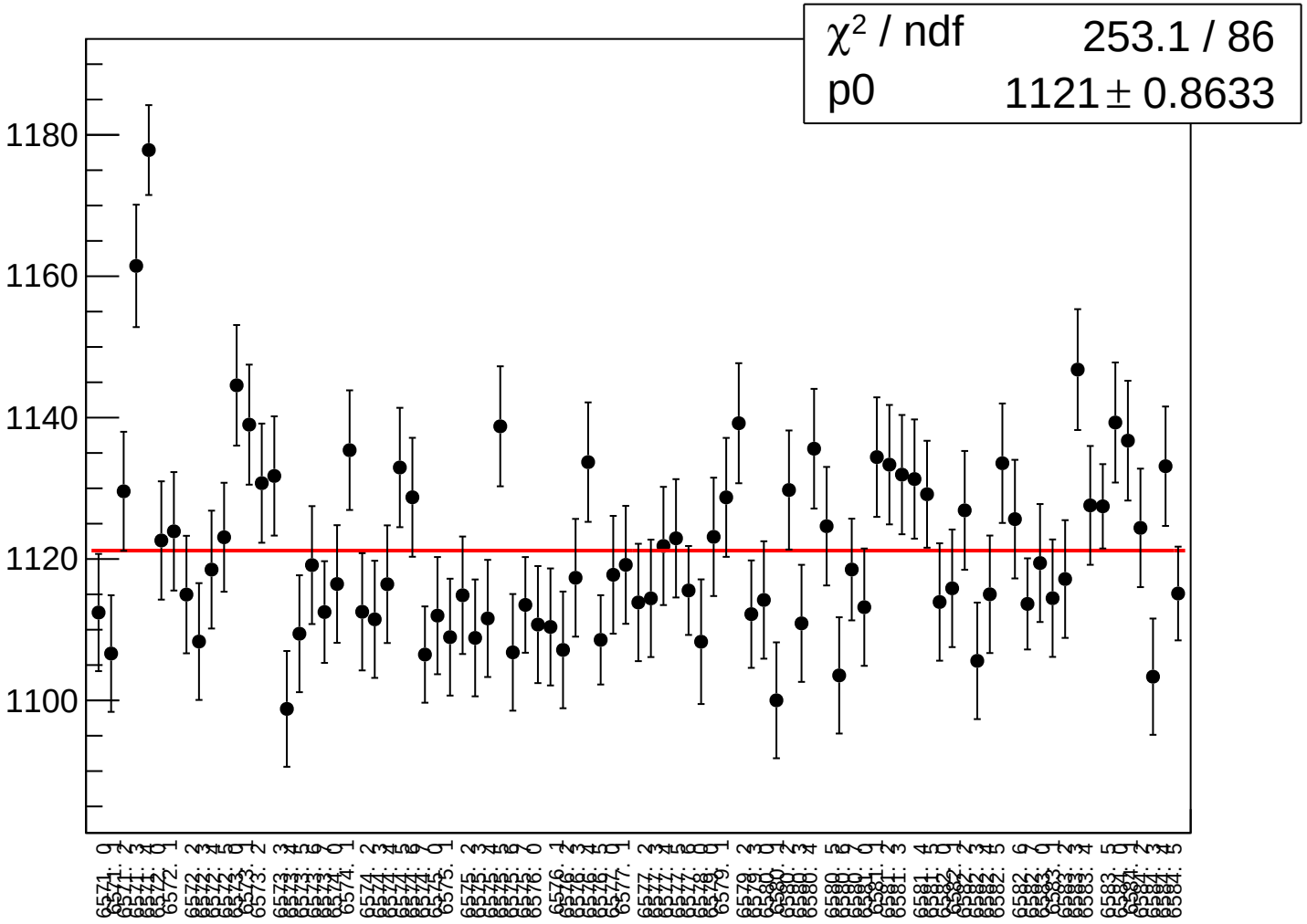

asym_usr_dit_correction_mean vs run
χ² / ndf 102.7 / 86
p0 2085 ± 1512
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −1036
Std Dev 0
2
1
0
−1
−2
−3

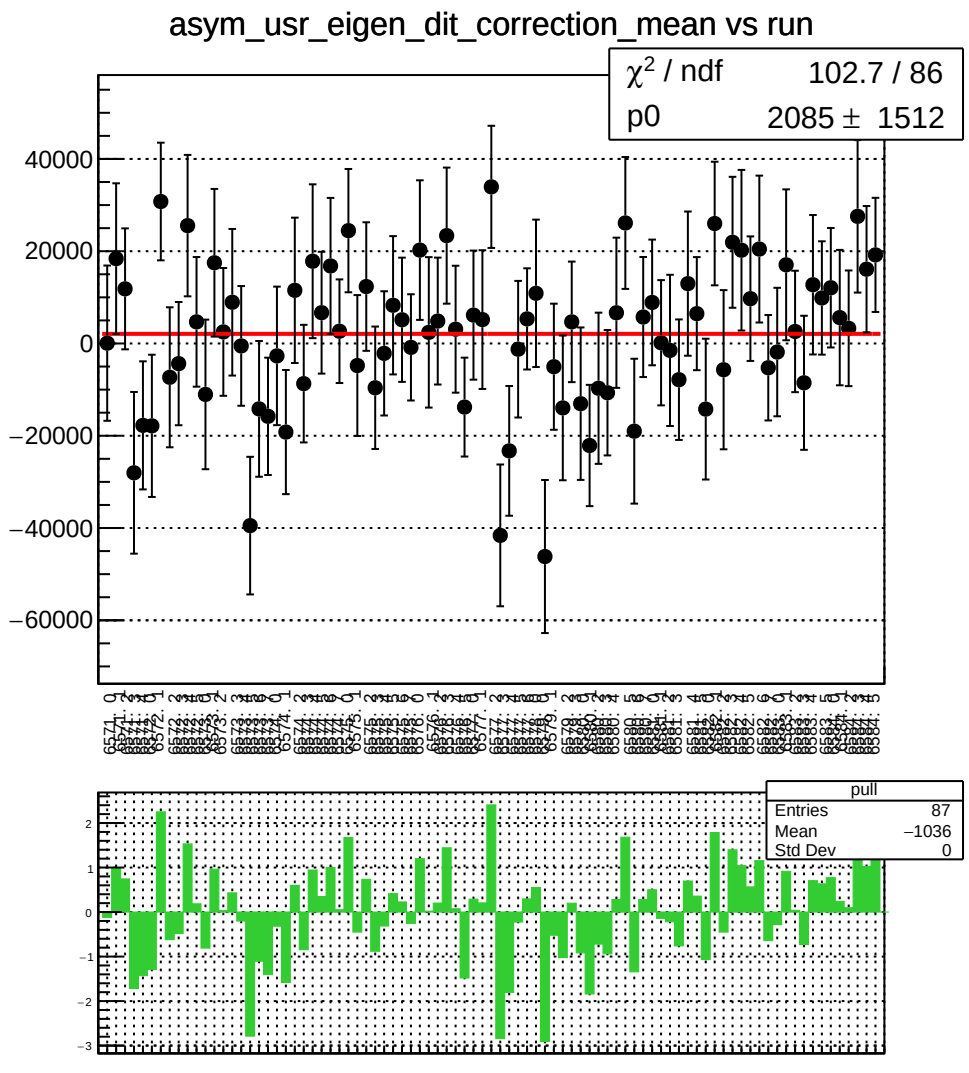

pull1D
Entries 87
Mean −0.004277
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

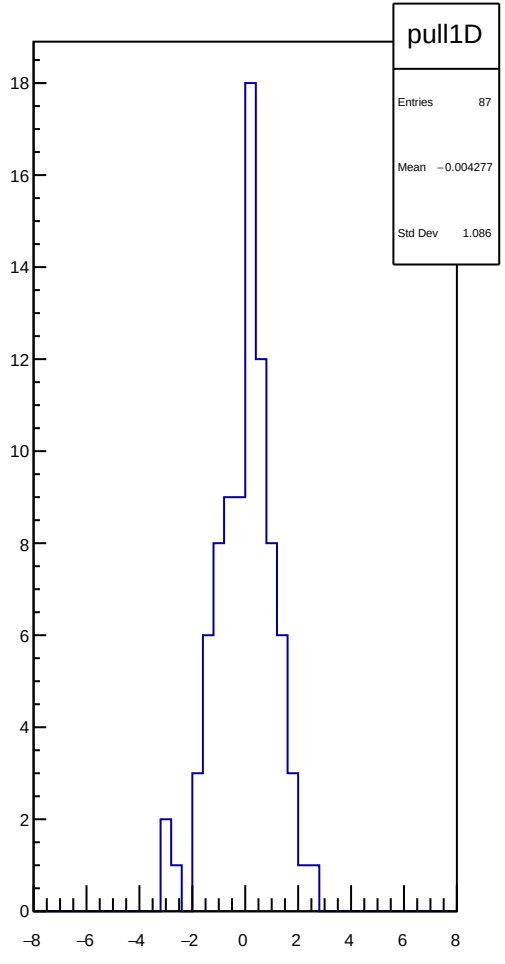

asym_usr_dit_correction_rms vs run
χ² / ndf 1.363e+04 / 86
p0 1383 ± 1.069
1800
1700
1600
1500
1400
1300
1200

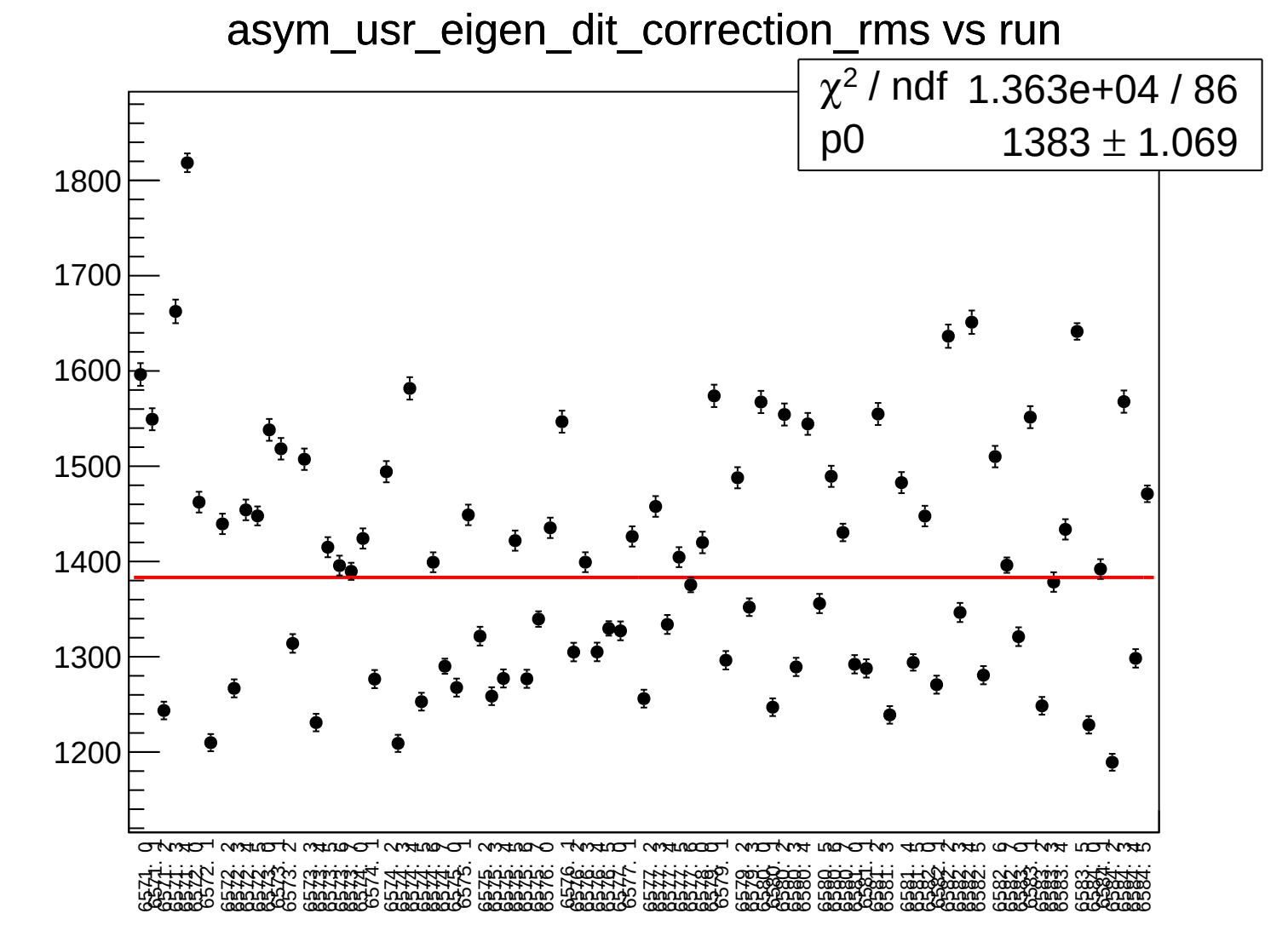

eigen_dit_asym_usr_mean vs run
χ² / ndf 88.18 / 86
p0 2525 ± 1221
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 283.7
Std Dev 0
2
1
0
−1
−2

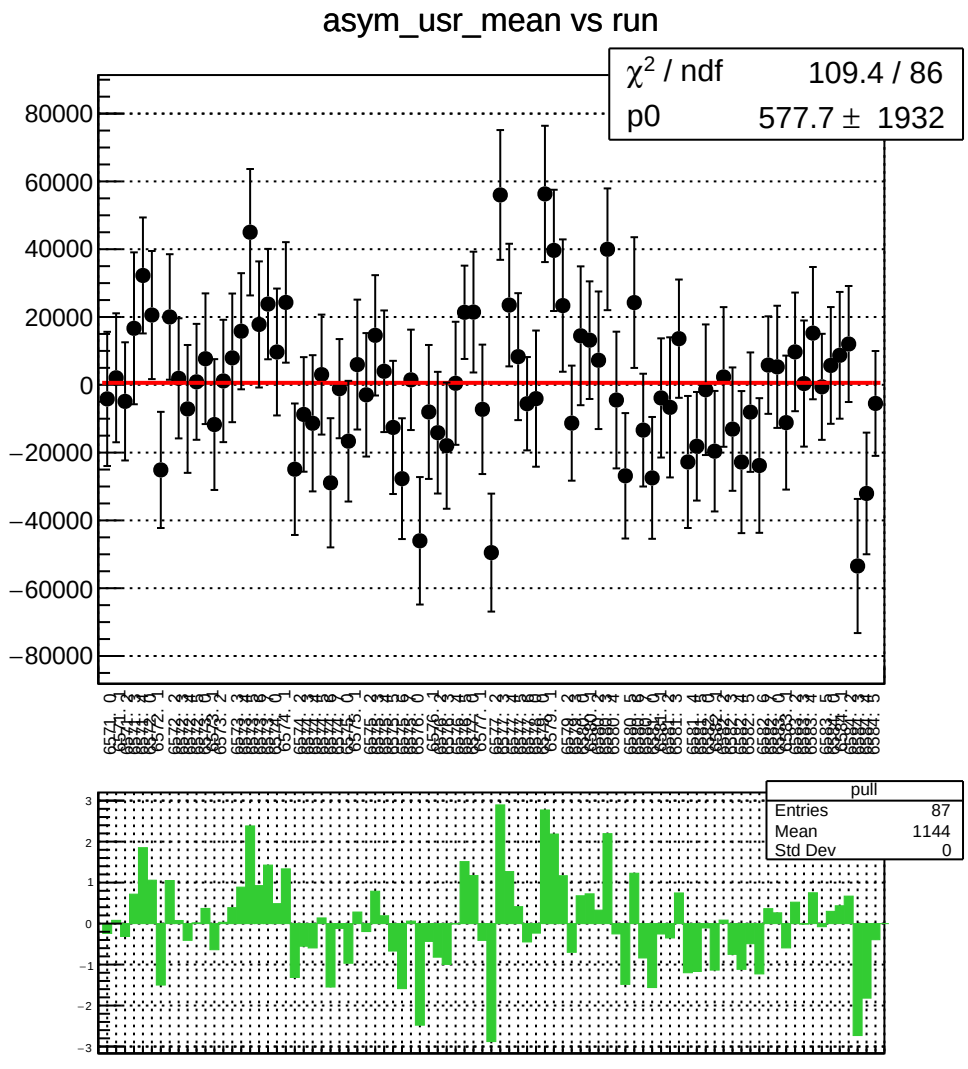

pull1D
Entries 87
Mean −0.007441
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

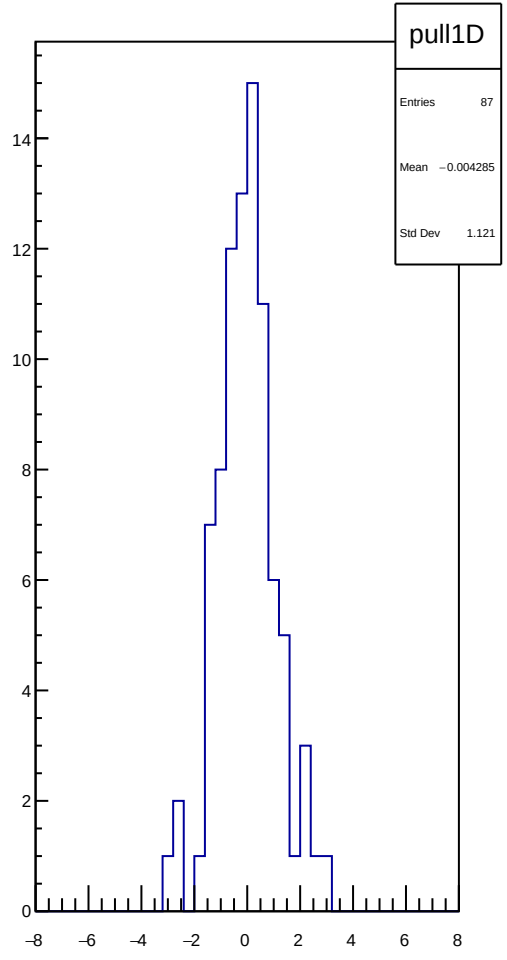

eigen_dit_asym_usr_rms vs run
χ² / ndf 253.1 / 86
p0 1121 ± 0.8633
1180
1160
1140
1120
1100

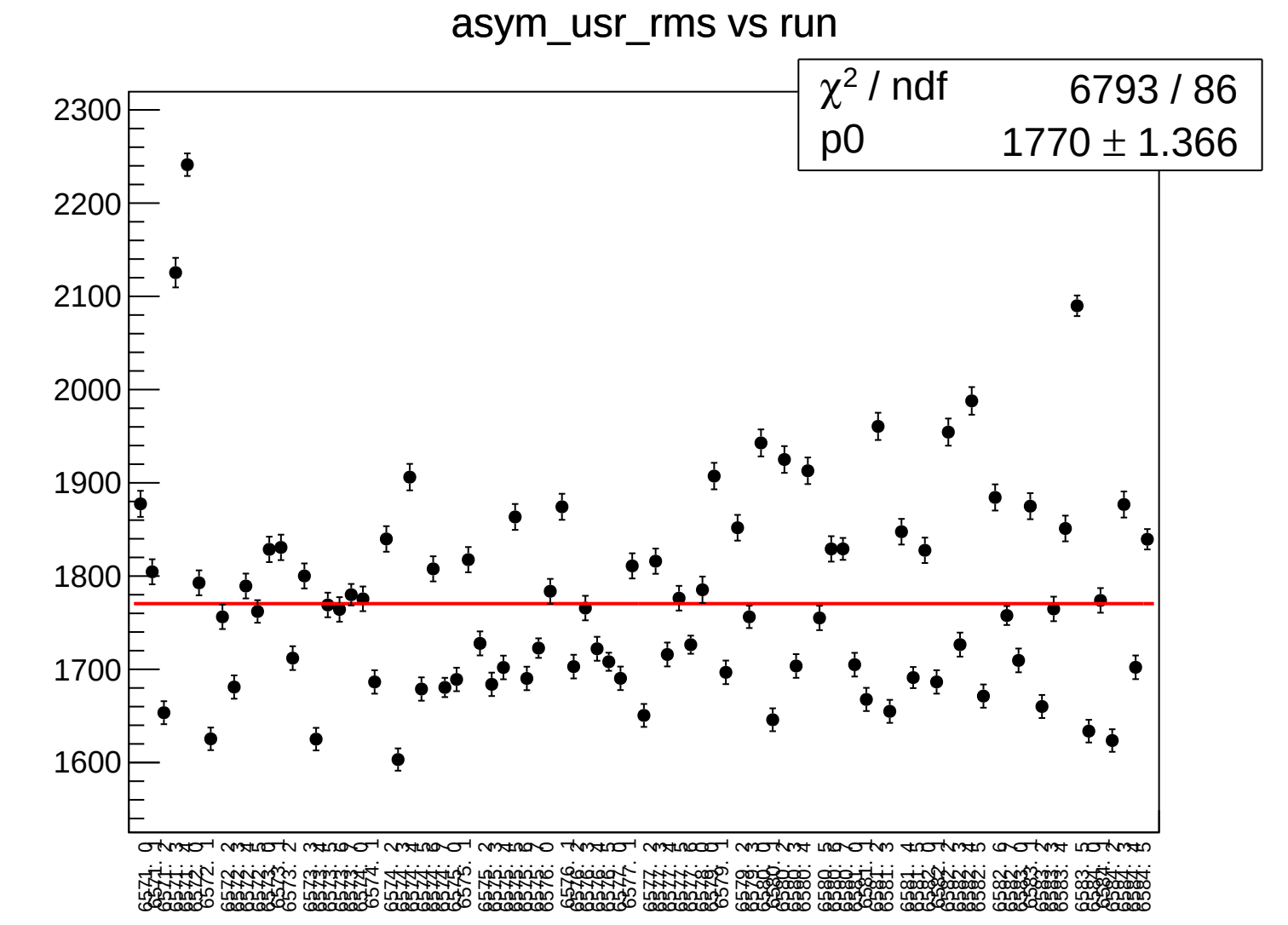

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 102.7 / 86
p0 2085 ± 1512
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −1036
Std Dev 0
2
1
0
−1
−2
−3

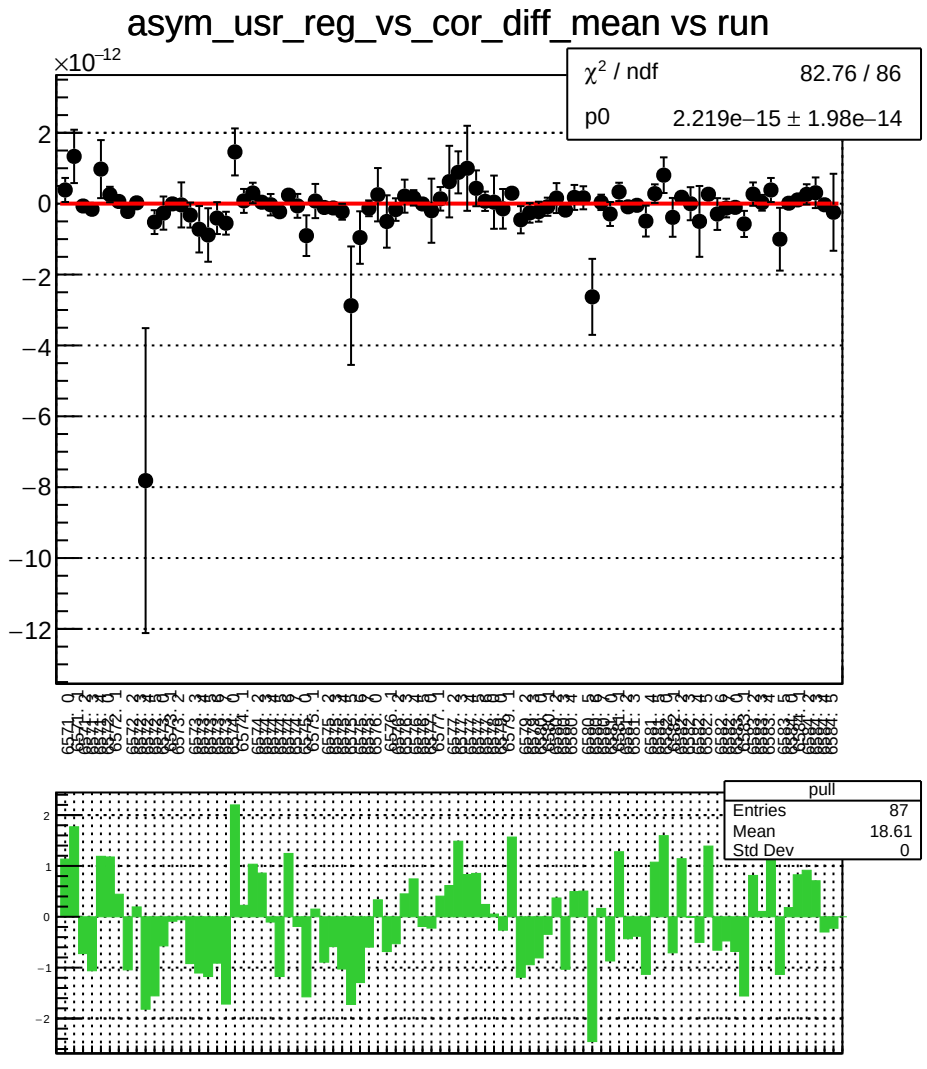

pull1D
Entries 87
Mean −0.004277
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

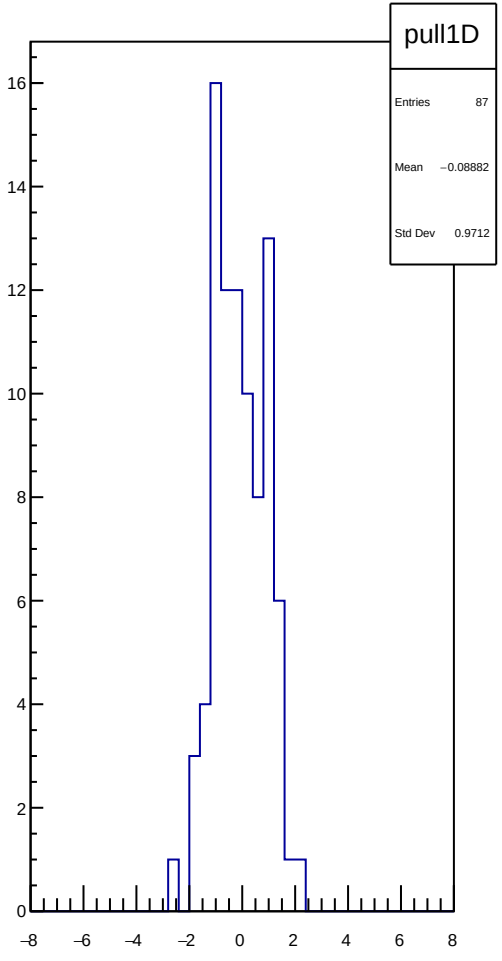

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1.363e+04 / 86
p0 1383 ± 1.069
1800
1700
1600
1500
1400
1300
1200

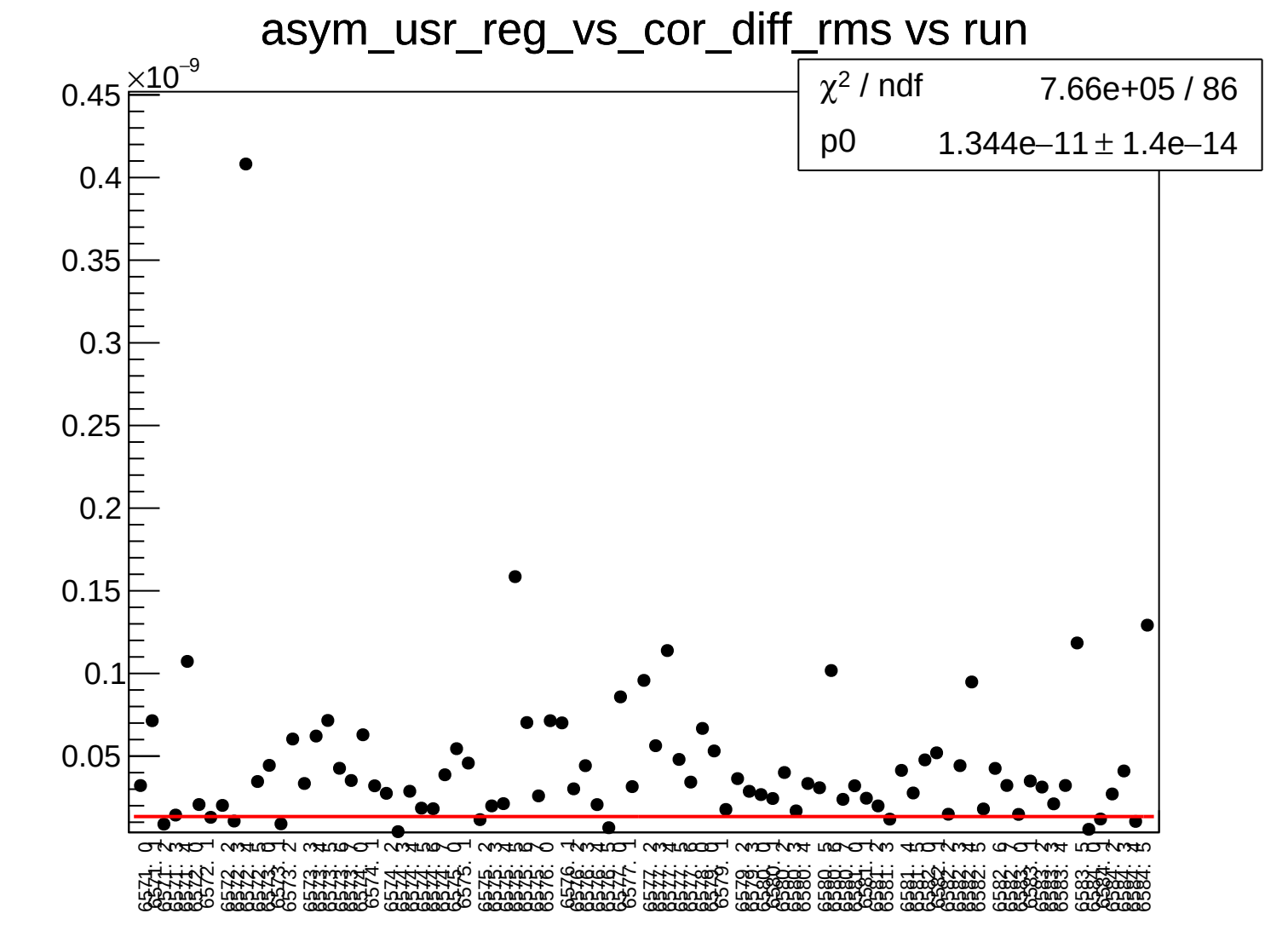

asym_usr_mean vs run
χ² / ndf 109.4 / 86
p0 577.7 ± 1932
pull
Entries 87
Mean 1144
Std Dev 0

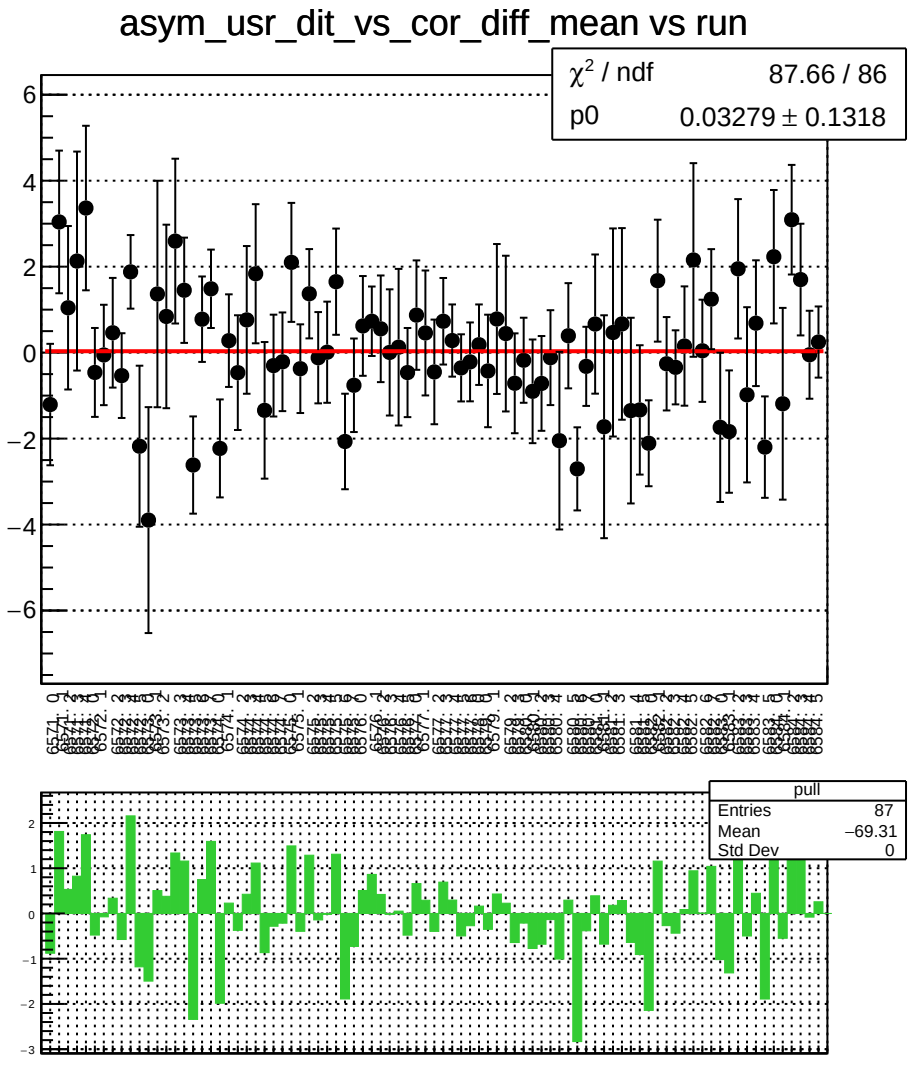

pull1D
Entries 87
Mean −0.004285
Std Dev 1.121

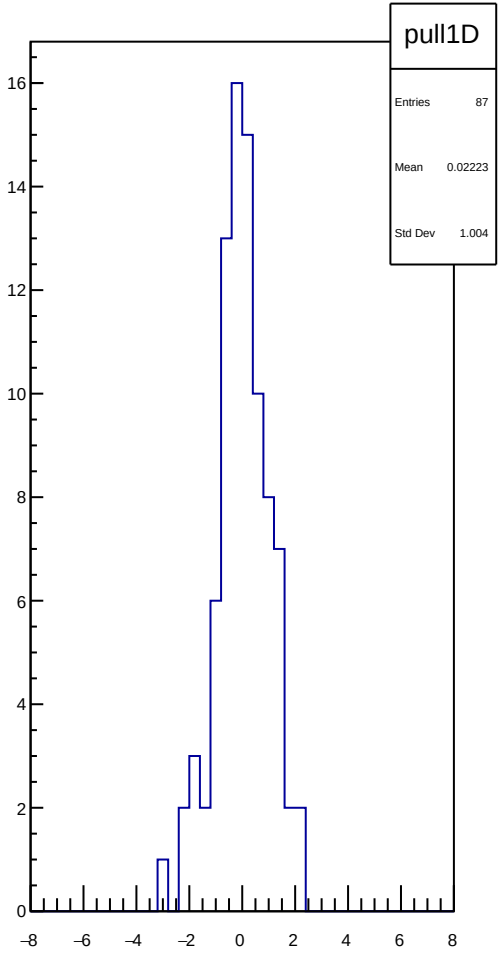

asym_usr_rms vs run
χ² / ndf 6793 / 86
p0 1770 ± 1.366
2300
2200
2100
2000
1900
1800
1700
1600

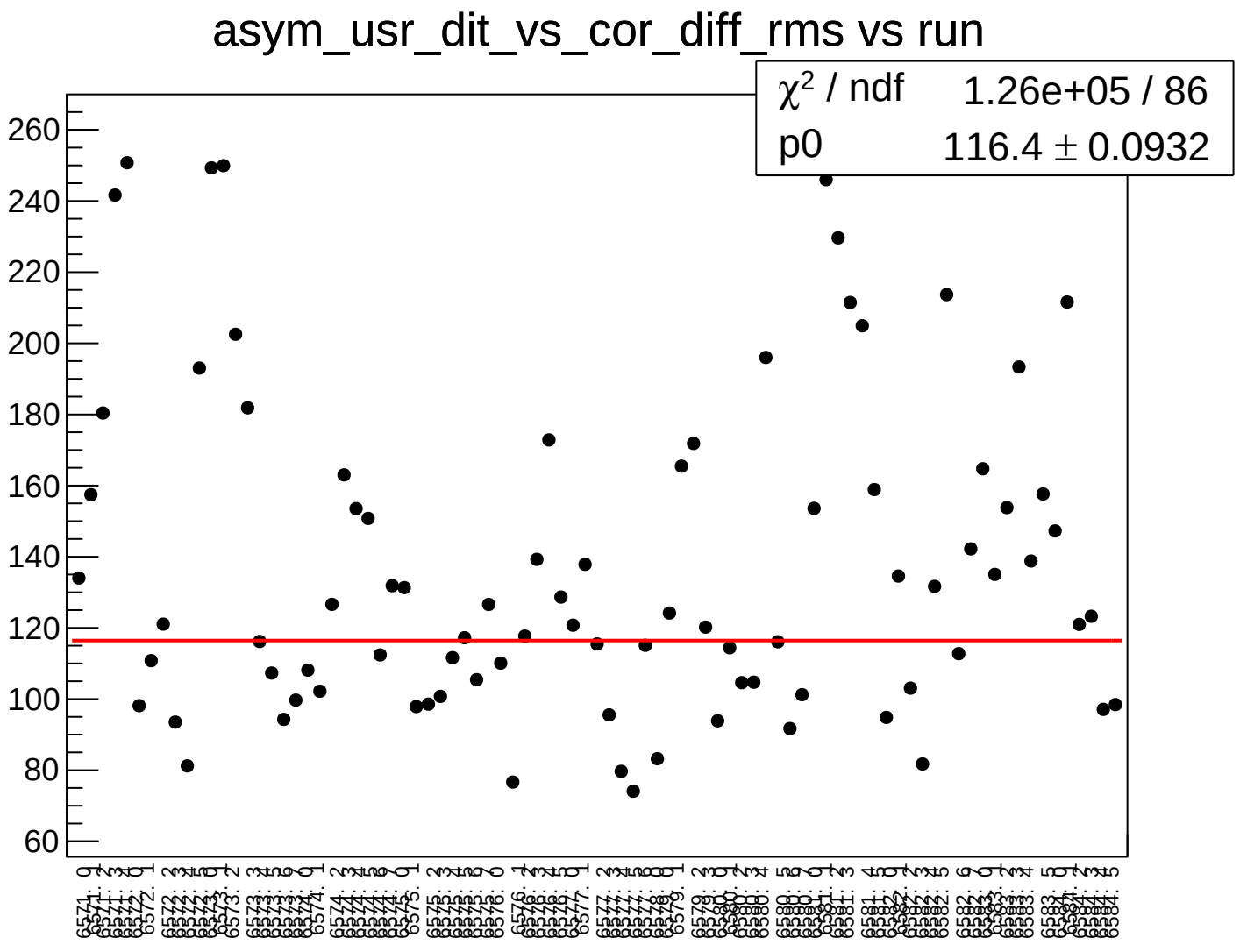

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.76 / 86
p0 2.219e−15 ± 1.98e−14
pull
Entries 87
Mean 18.61
Std Dev 0

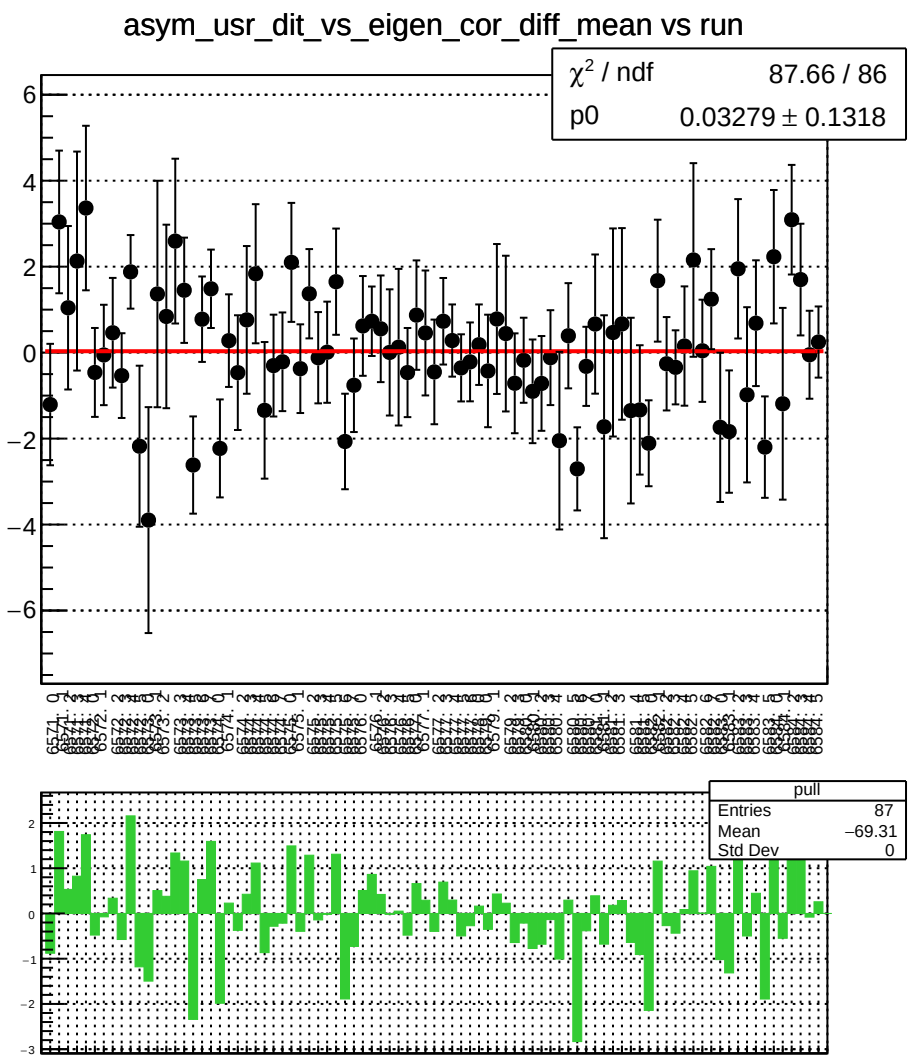

pull1D
Entries 87
Mean −0.08882
Std Dev 0.9712

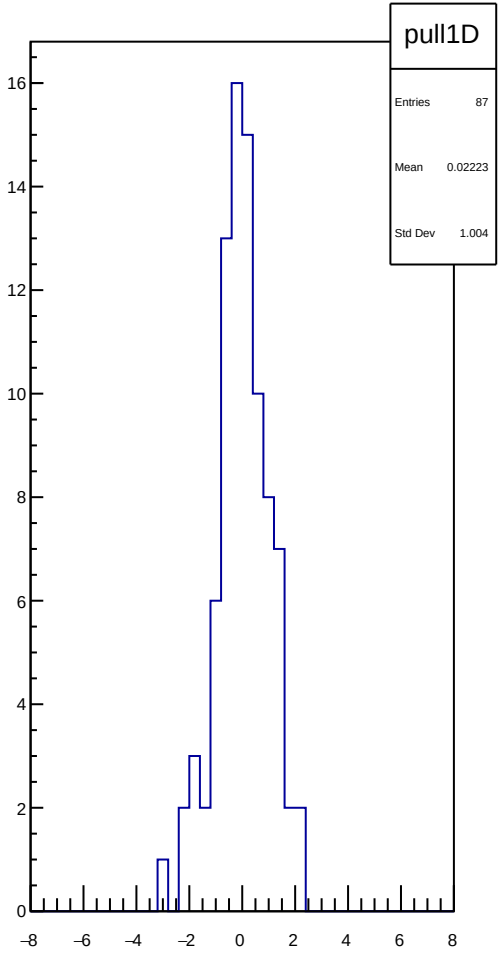

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.66e+05 / 86
p0 1.344e−11 ± 1.4e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

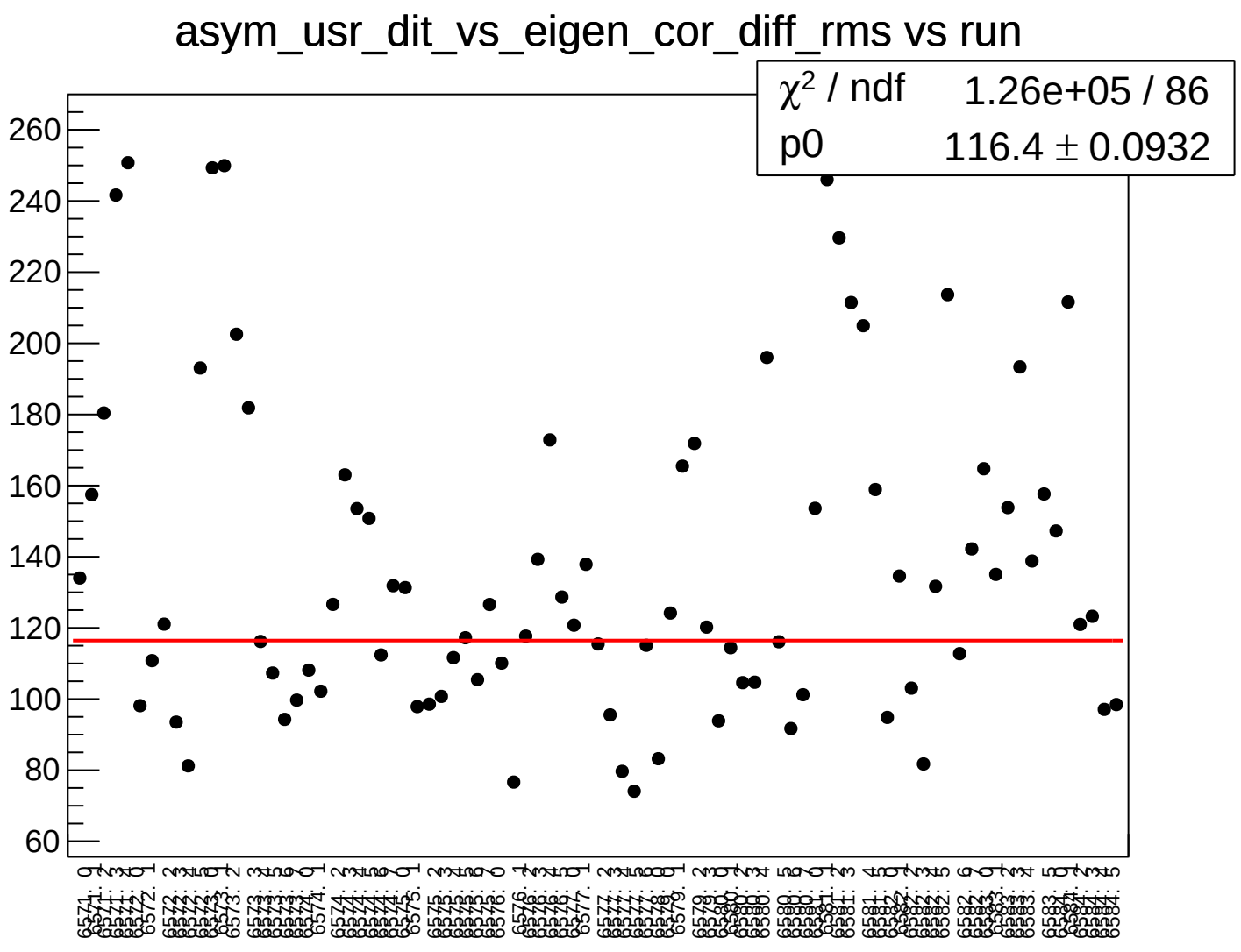

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 87.66 / 86
p0 0.03279 ± 0.1318
pull
Entries 87
Mean −69.31
Std Dev 0

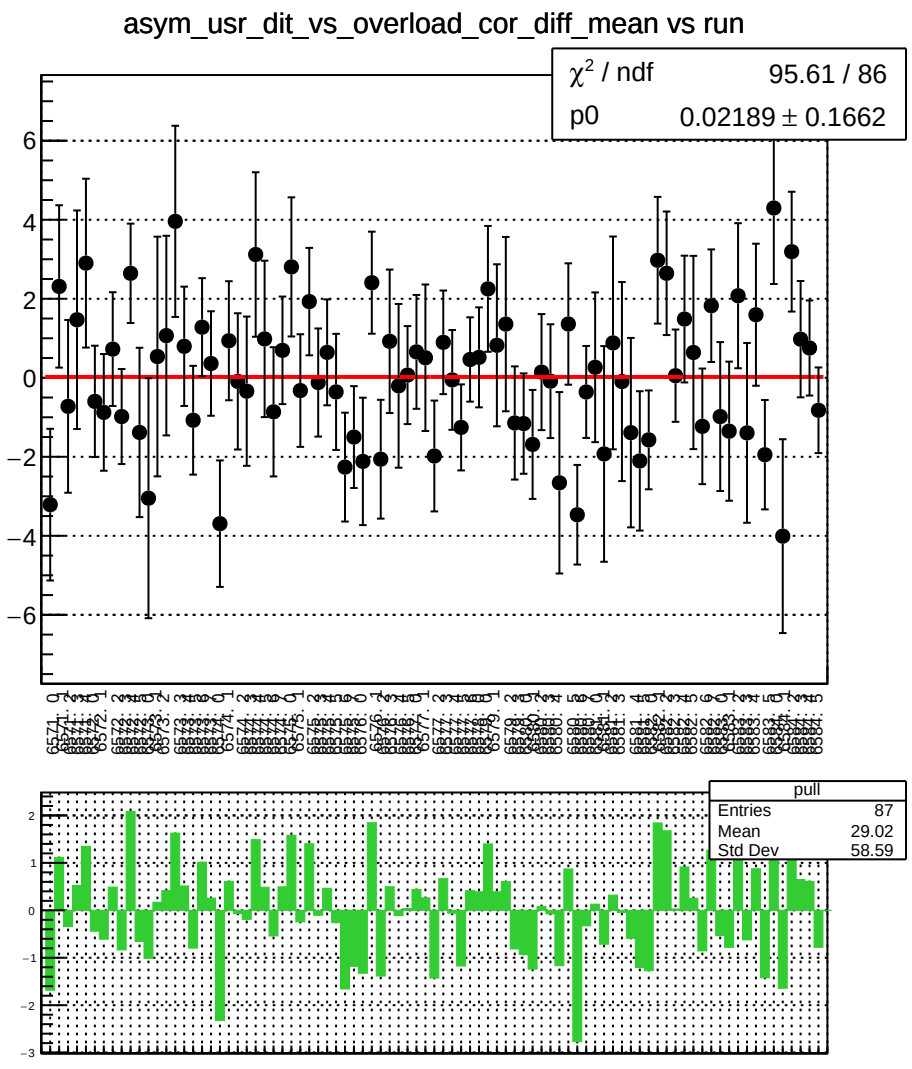

pull1D
Entries 87
Mean 0.02223
Std Dev 1.004

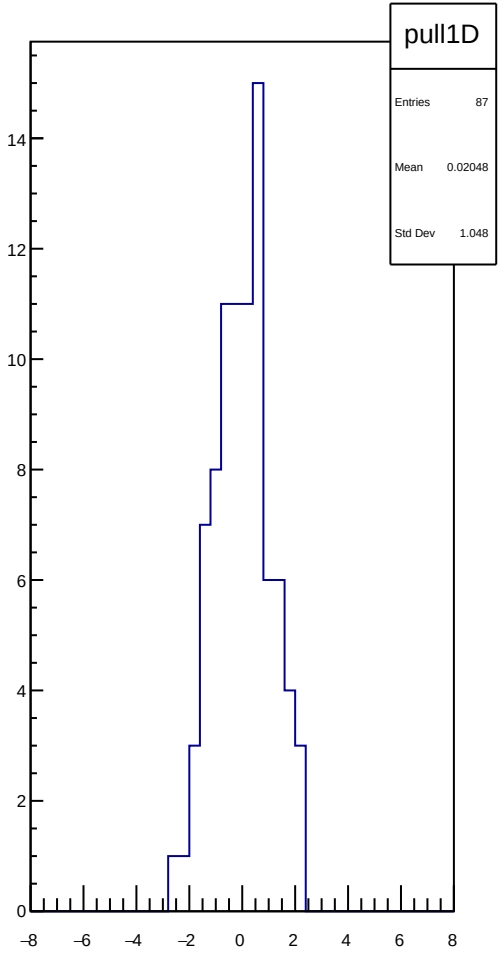

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.26e+05 / 86
p0 116.4 ± 0.0932
260
240
220
200
180
160
140
120
100
80
60

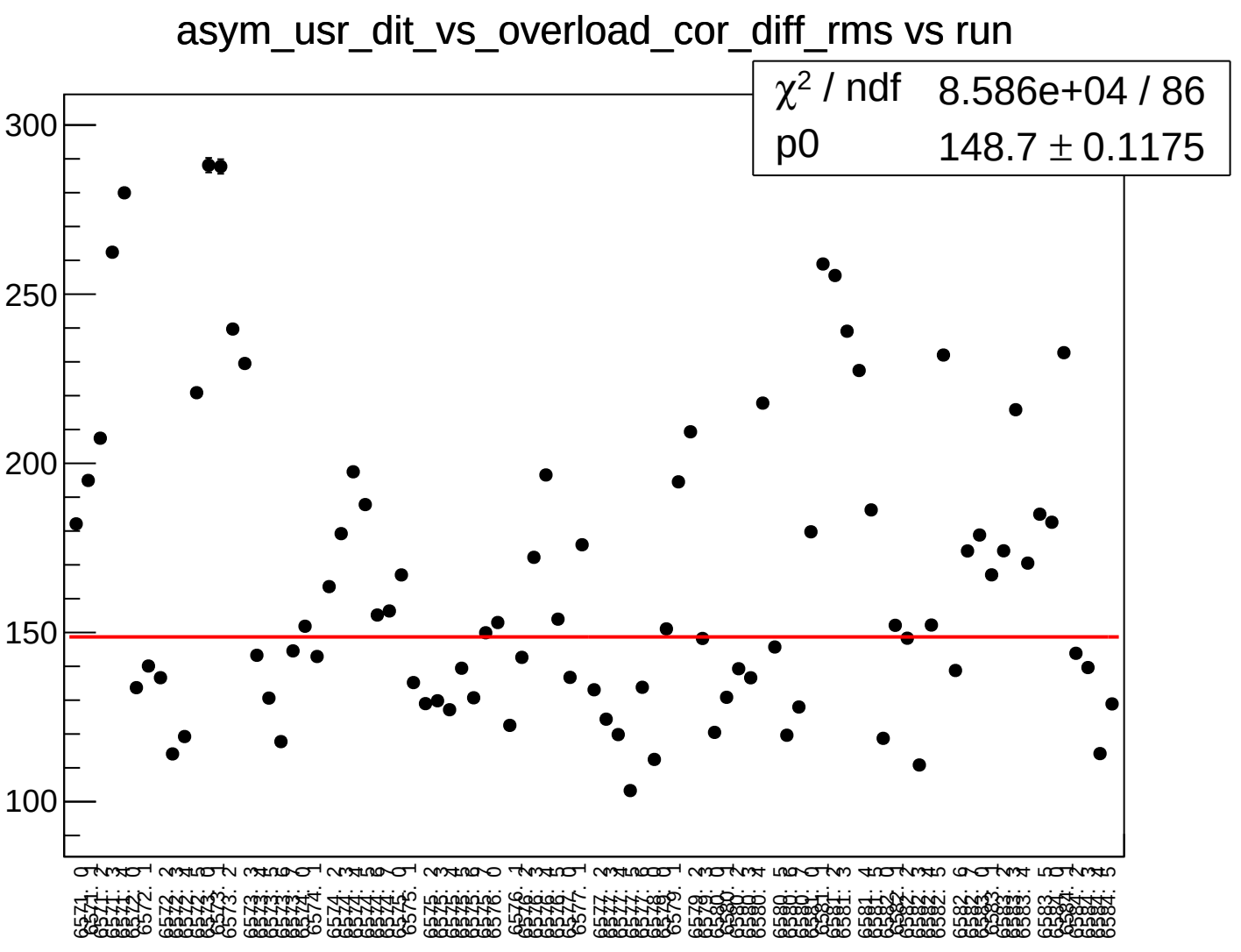

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.66 / 86
p0 0.03279 ± 0.1318
pull
Entries 87
Mean −69.31
Std Dev 0

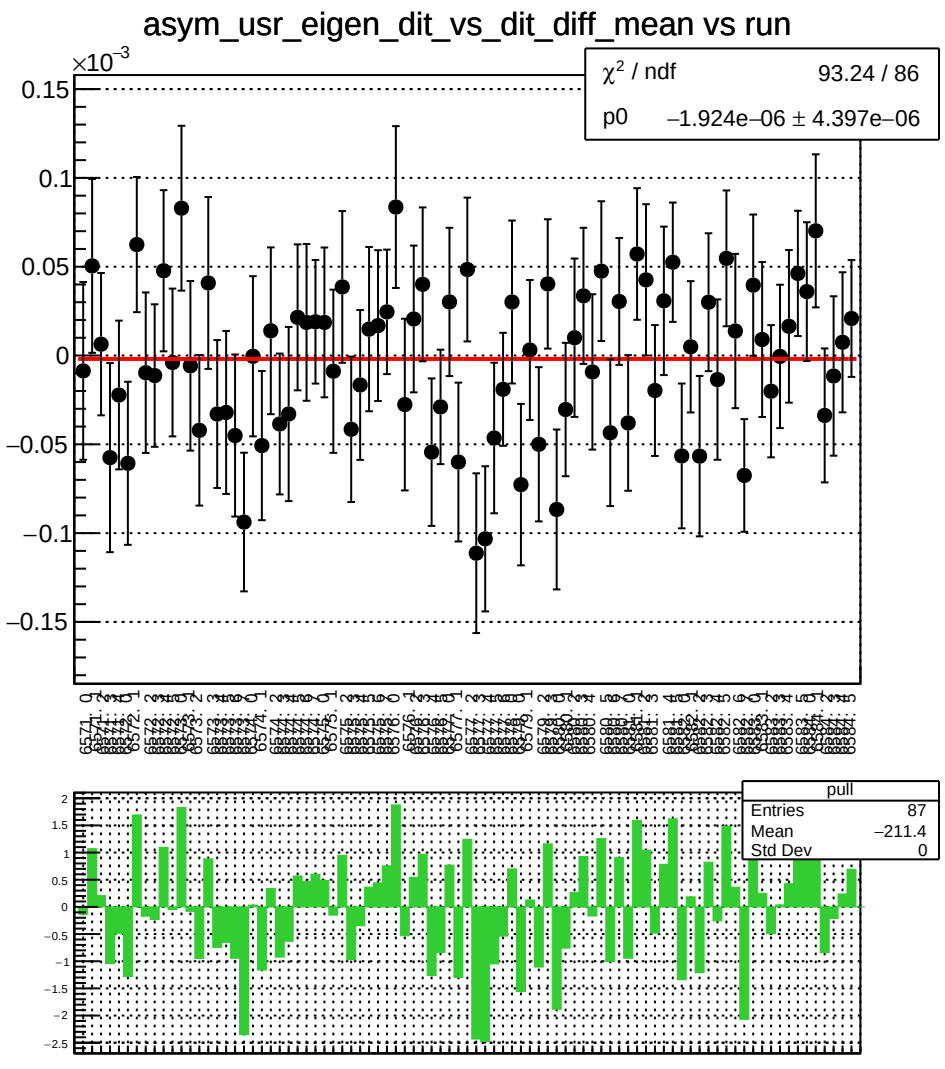

pull1D
Entries 87
Mean 0.02223
Std Dev 1.004

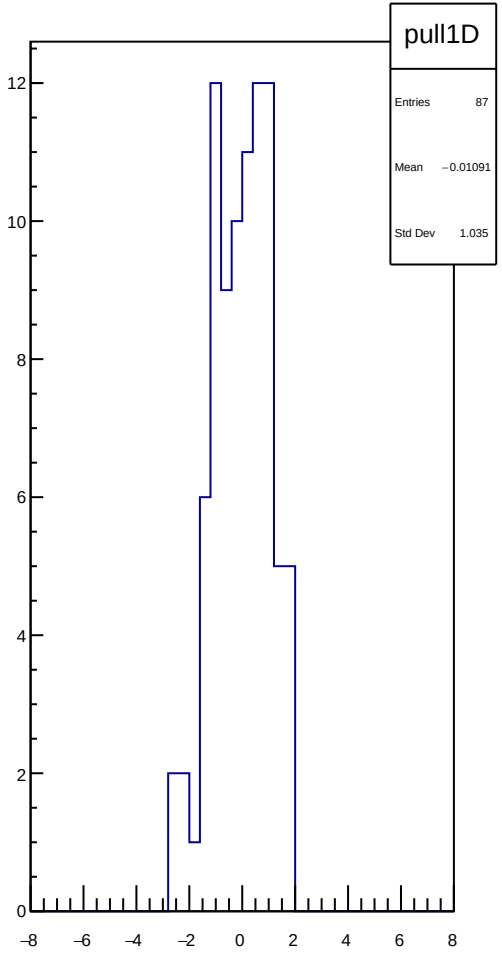

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.26e+05 / 86
p0 116.4 ± 0.0932
260
240
220
200
180
160
140
120
100
80
60

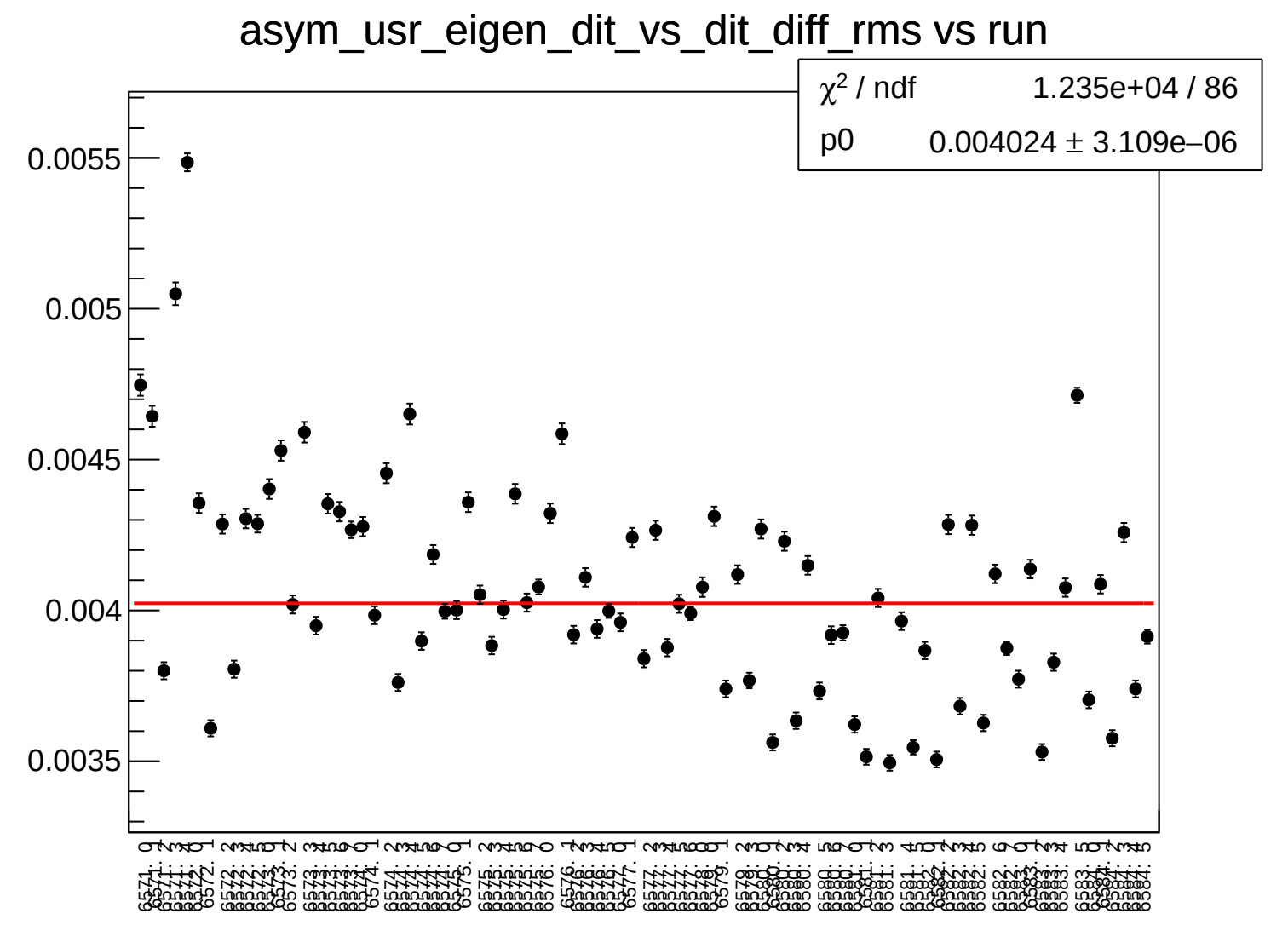

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 95.61 / 86
p0 0.02189 ± 0.1662
pull
Entries 87
Mean 29.02
Std Dev 58.59

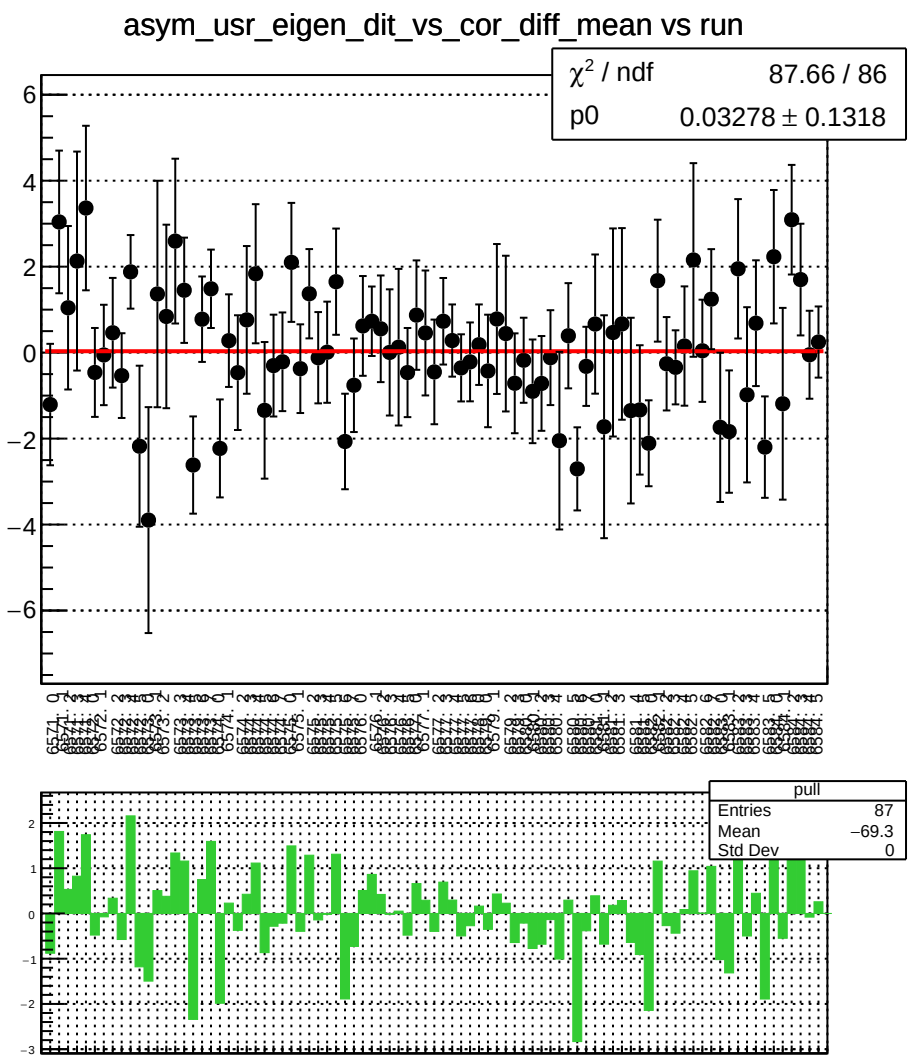

pull1D
Entries 87
Mean 0.02048
Std Dev 1.048

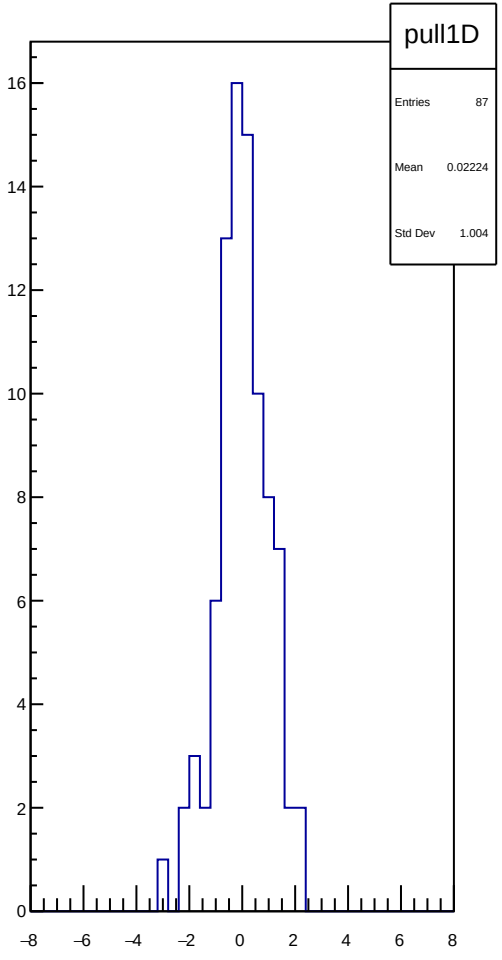

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.586e+04 / 86
p0 148.7 ± 0.1175
300
250
200
150
100

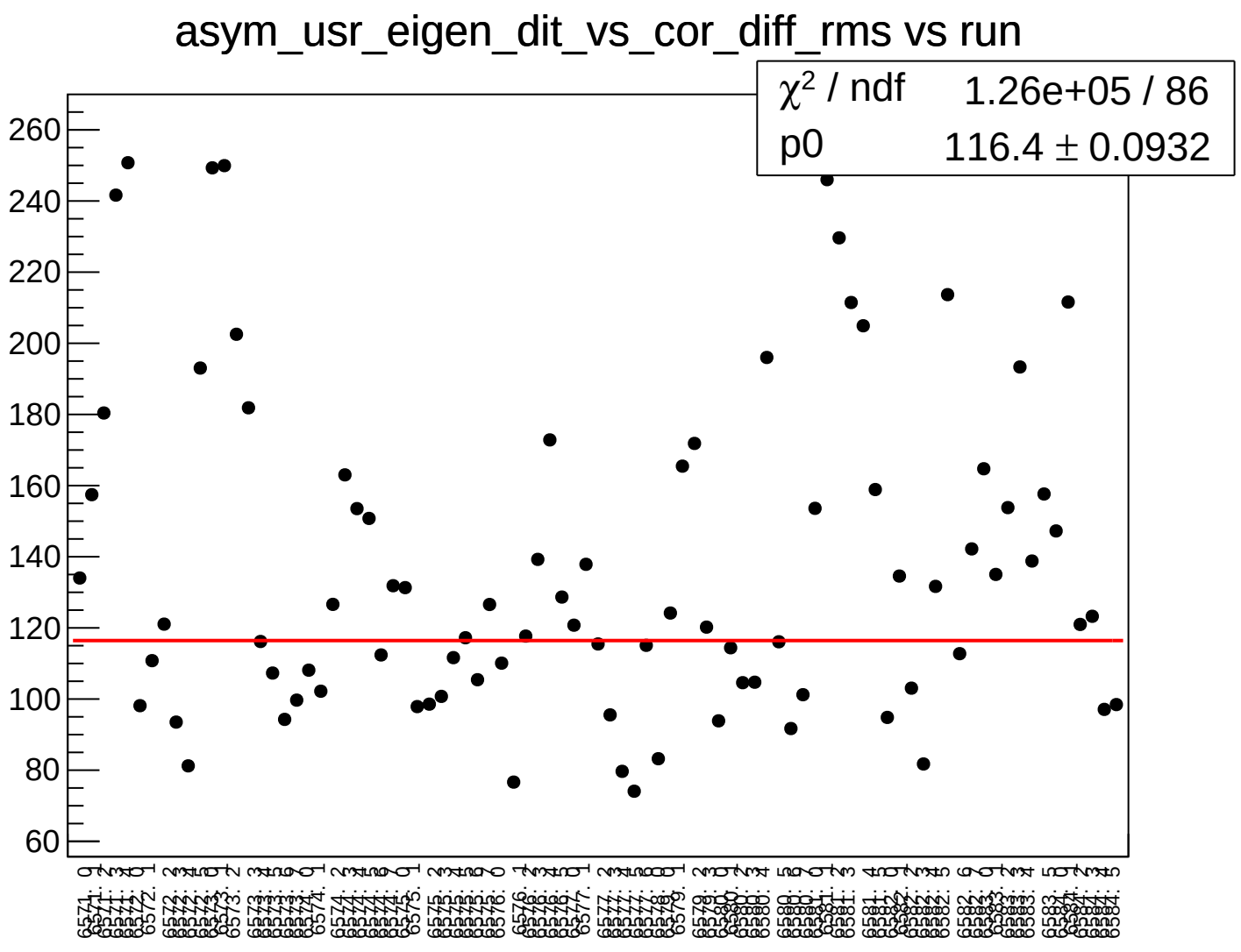

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.24 / 86
p0 −1.924e−06 ± 4.397e−06
pull
Entries 87
Mean −211.4
Std Dev 0

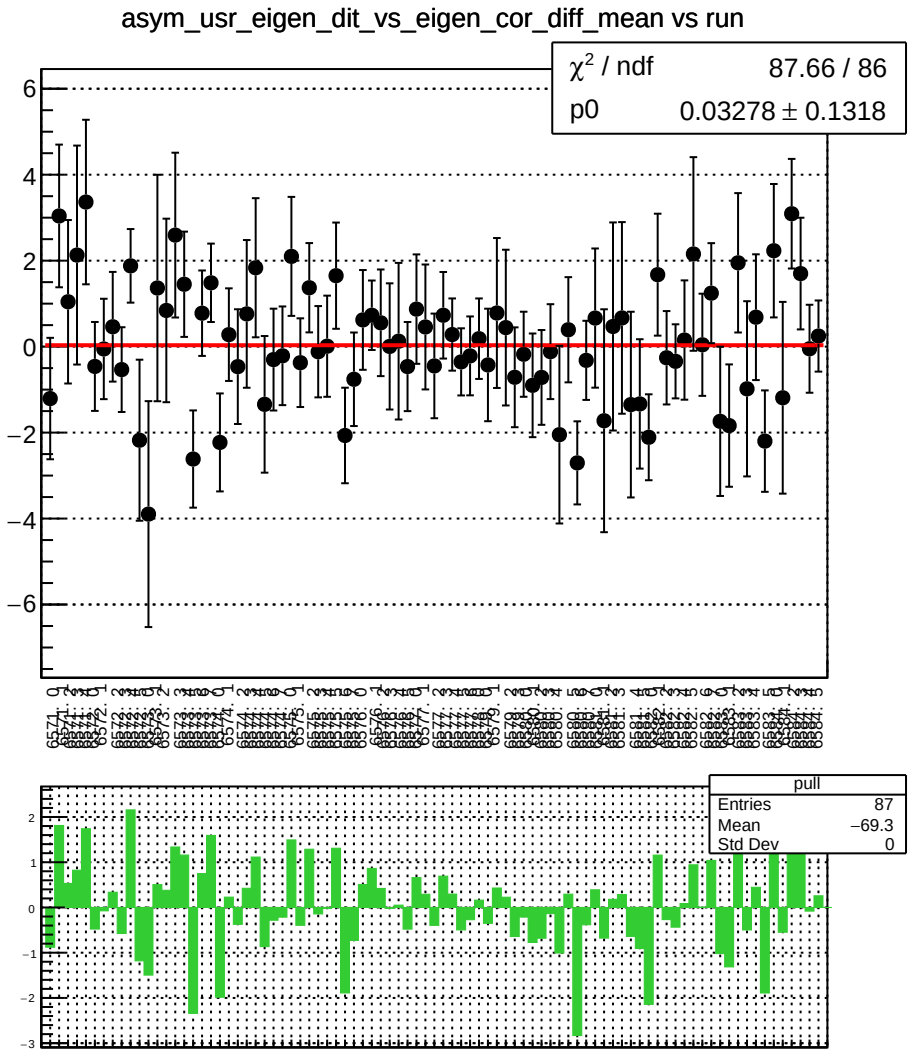

pull1D
Entries 87
Mean −0.01091
Std Dev 1.035

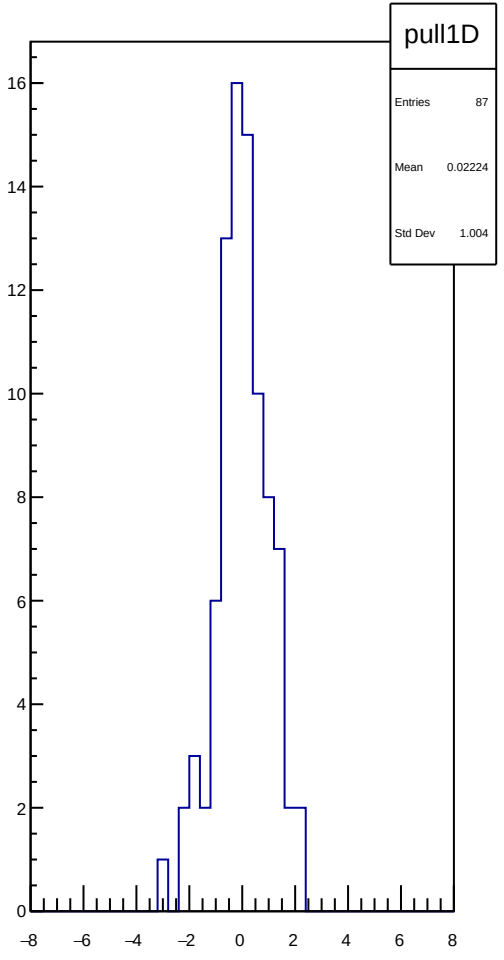

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.235e+04 / 86
p0 0.004024 ± 3.109e−06
0.0055
0.005
0.0045
0.004
0.0035

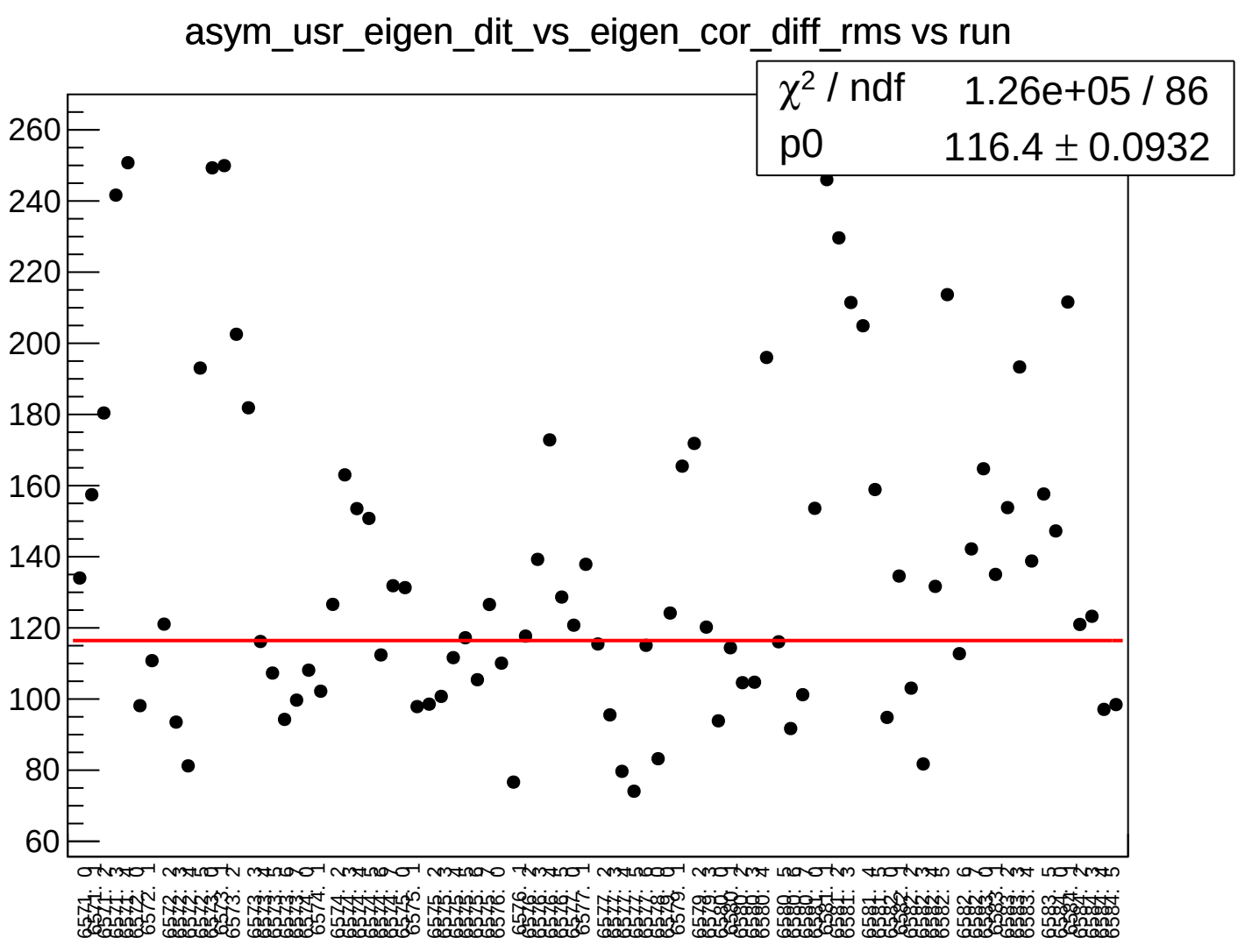

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.66 / 86
p0 0.03278 ± 0.1318
pull
Entries 87
Mean −69.3
Std Dev 0

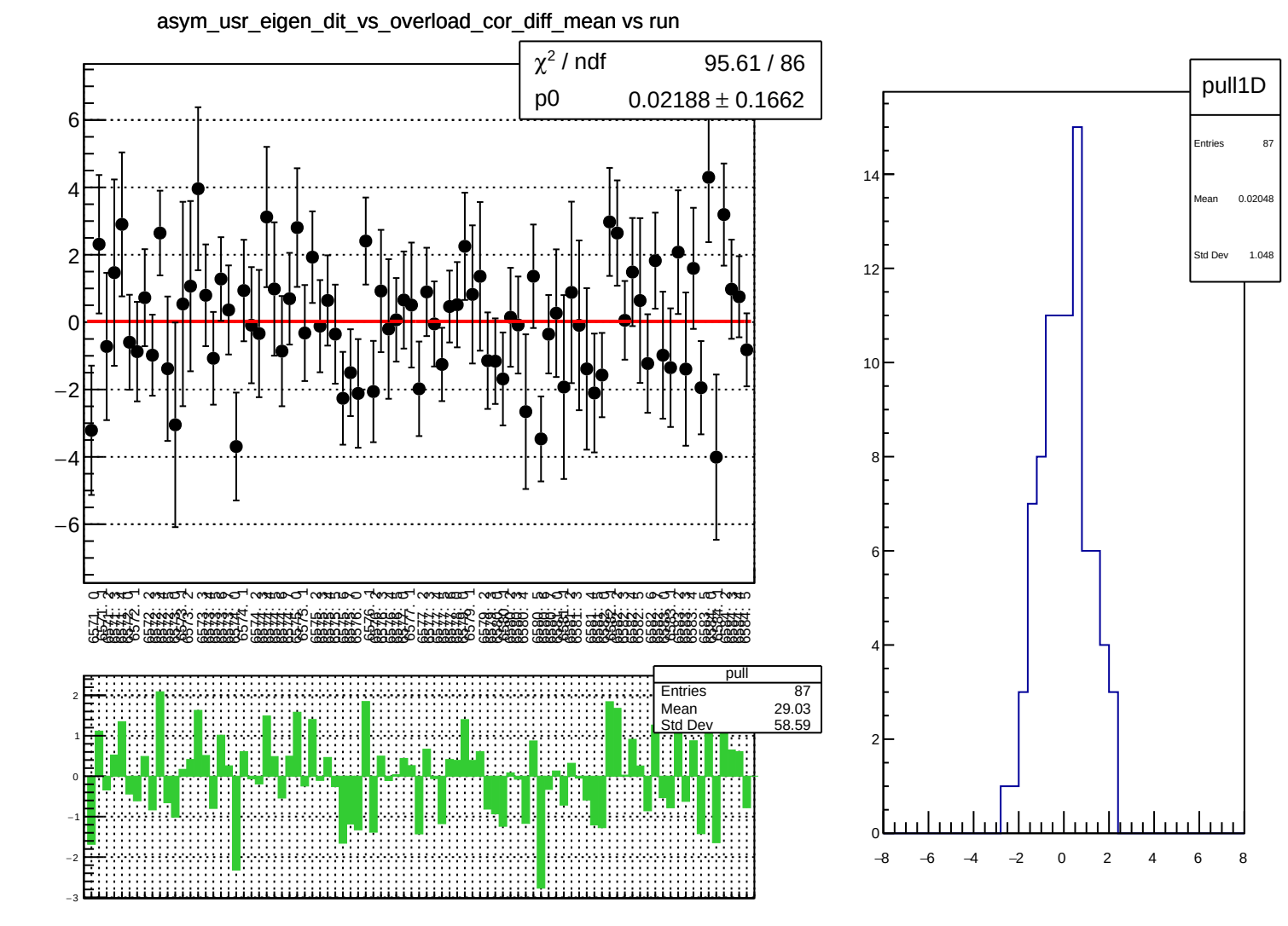

pull1D
Entries 87
Mean 0.02224
Std Dev 1.004

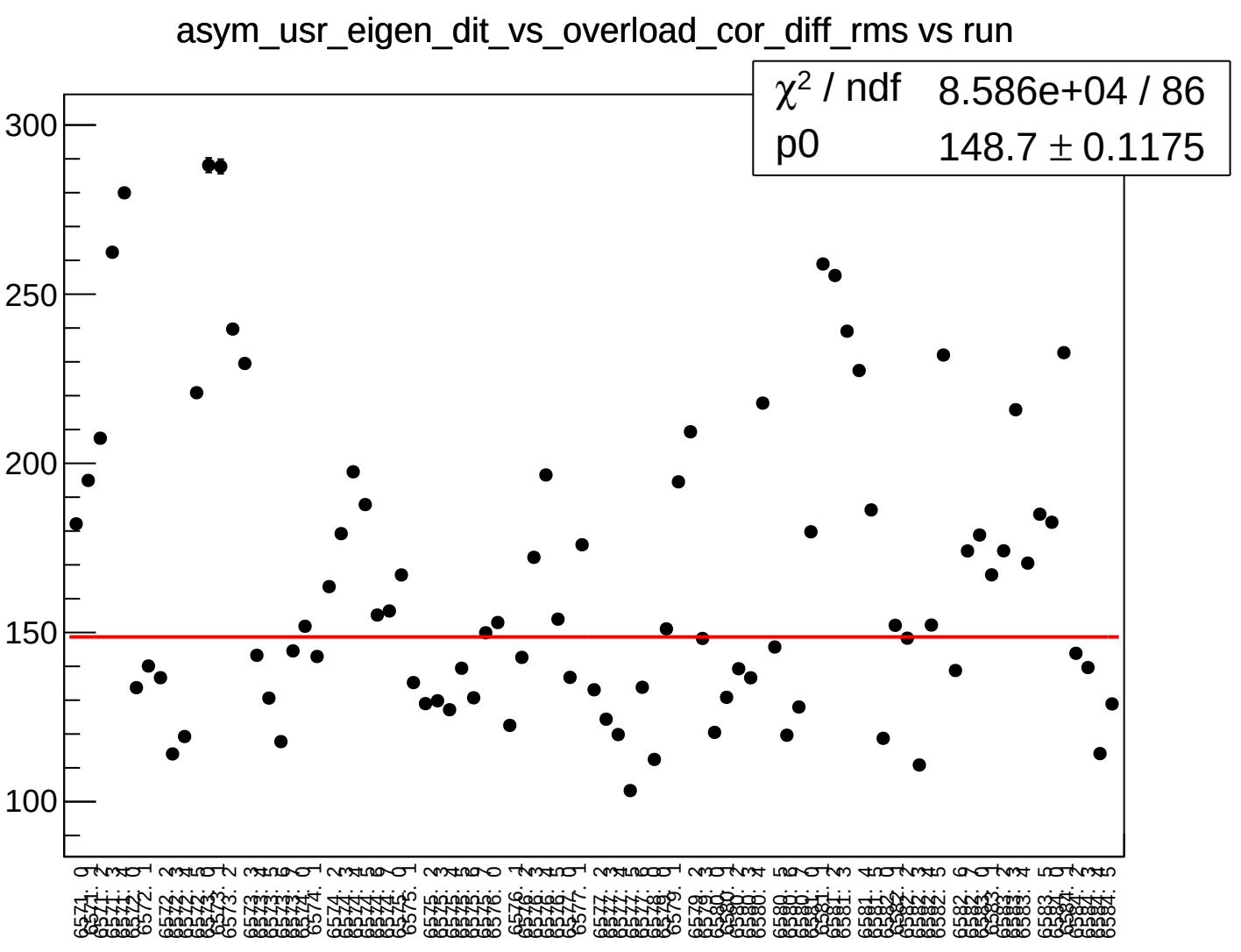

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.26e+05 / 86
p0 116.4 ± 0.0932
260
240
220
200
180
160
140
120
100
80
60

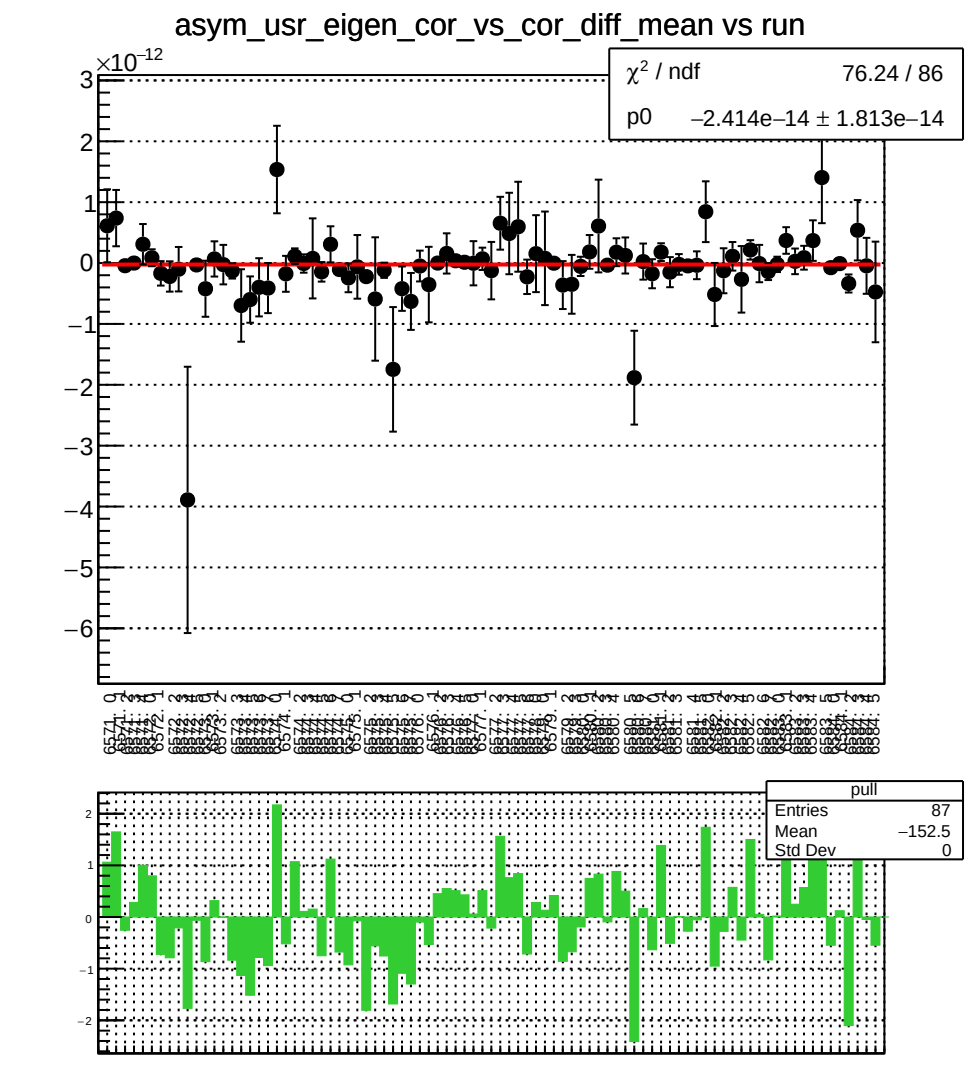

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.66 / 86
p0 0.03278 ± 0.1318
pull
Entries 87
Mean −69.3
Std Dev 0

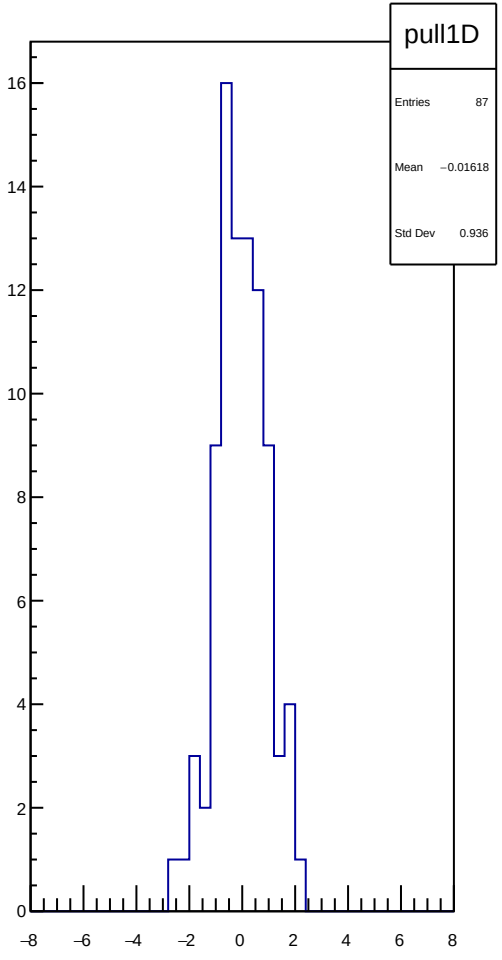

pull1D
Entries 87
Mean 0.02224
Std Dev 1.004

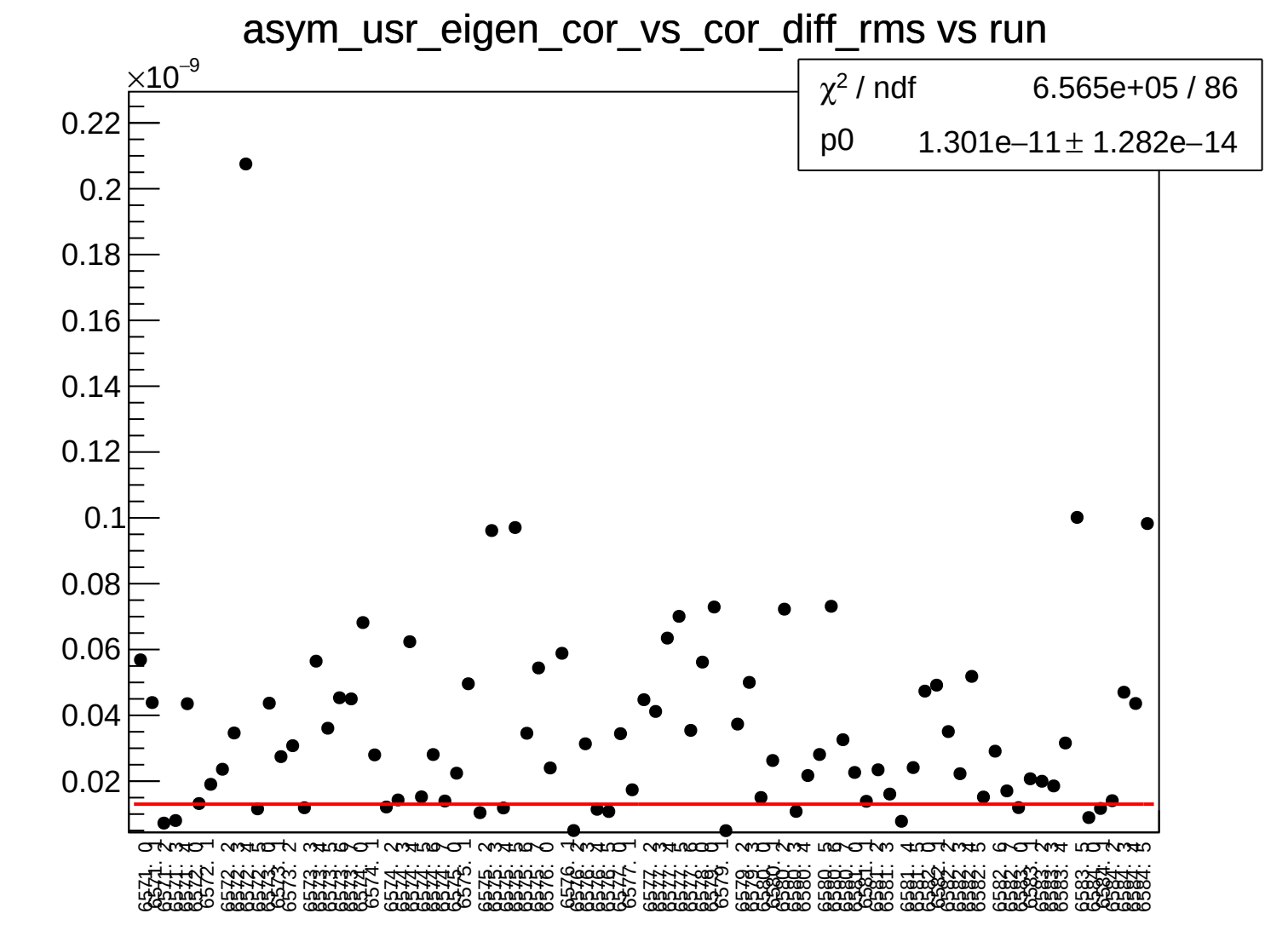

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.26e+05 / 86
p0 116.4 ± 0.0932
260
240
220
200
180
160
140
120
100
80
60

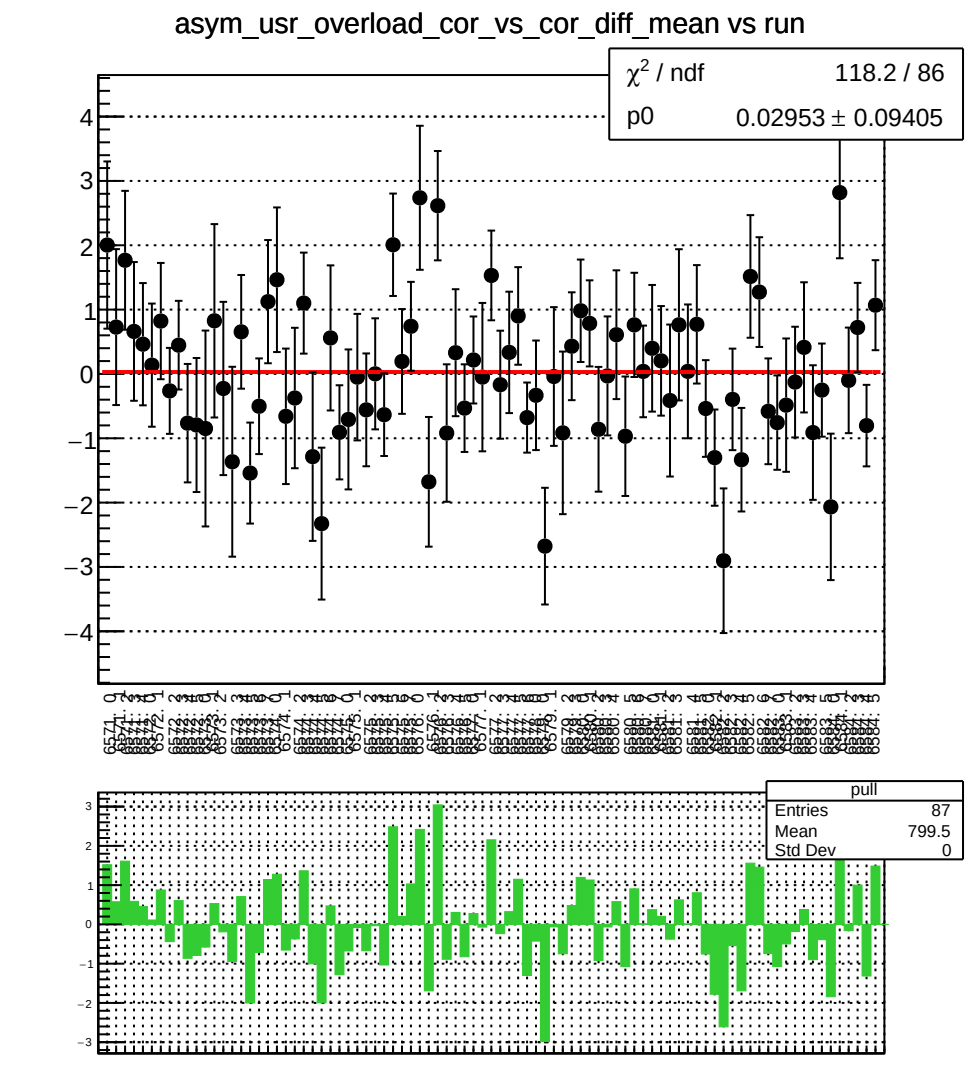

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 95.61 / 86
p0 0.02188 ± 0.1662
pull
Entries 87
Mean 29.03
Std Dev 58.59
pull1D
Entries 87
Mean 0.02048
Std Dev 1.048

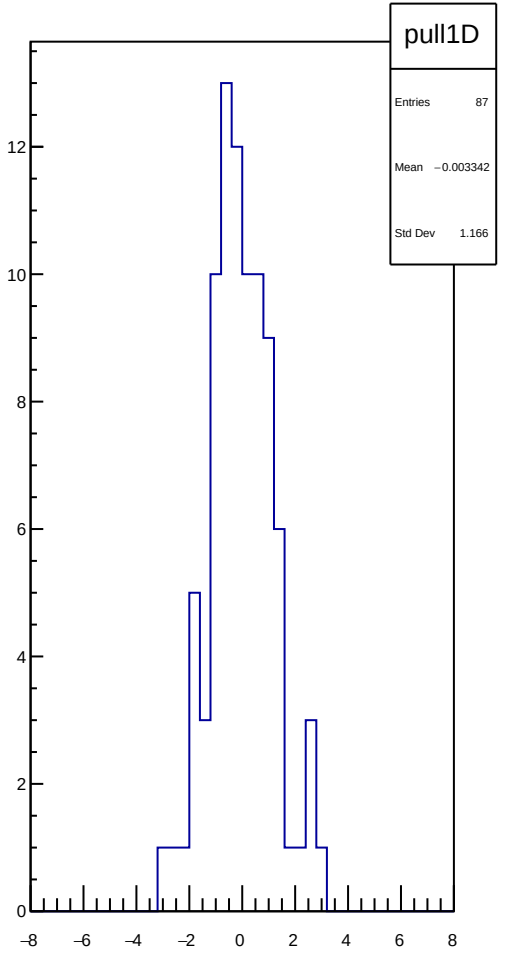

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.586e+04 / 86
p0 148.7 ± 0.1175
300
250
200
150
100

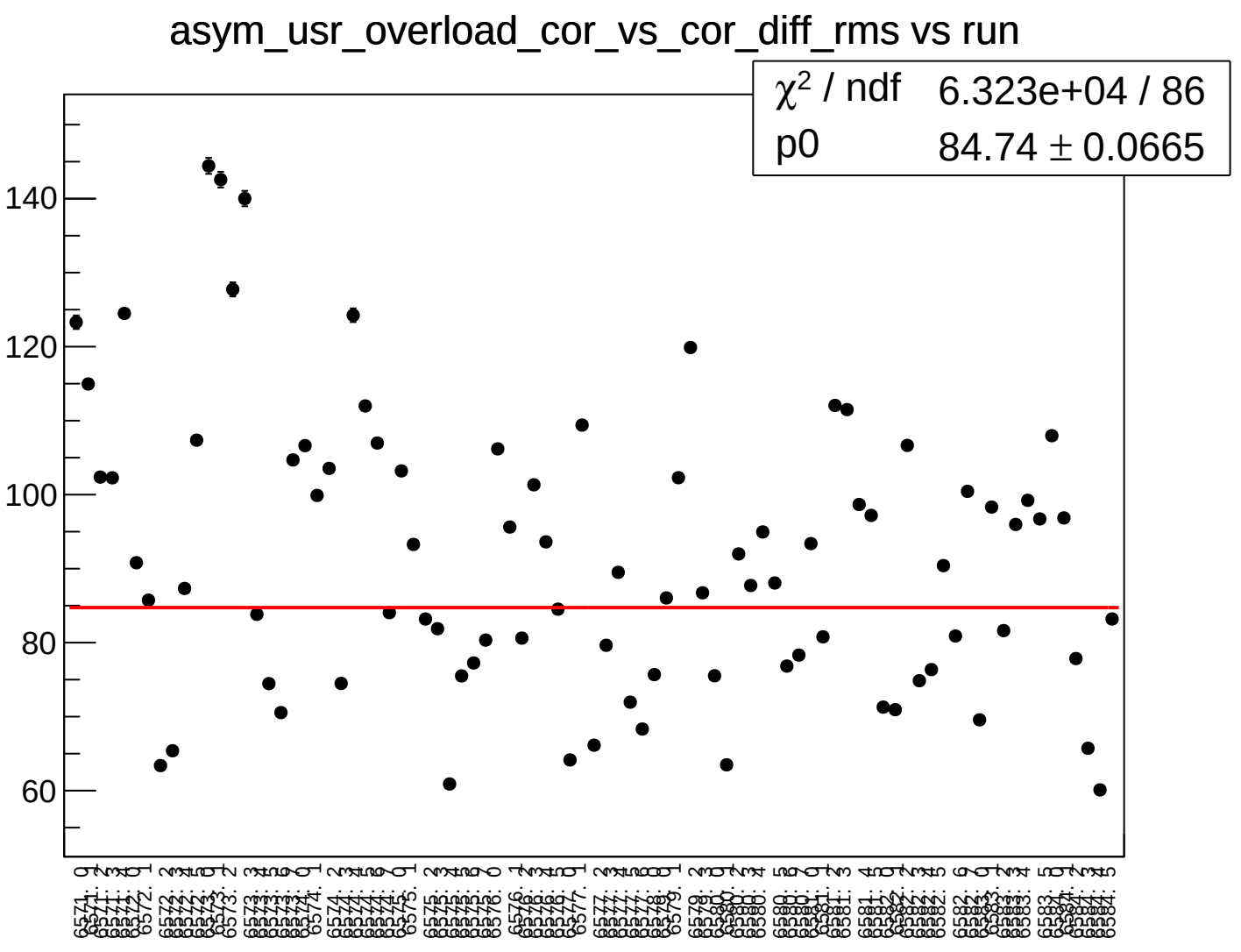

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.24 / 86
p0 −2.414e−14 ± 1.813e−14
pull
Entries 87
Mean −152.5
Std Dev 0

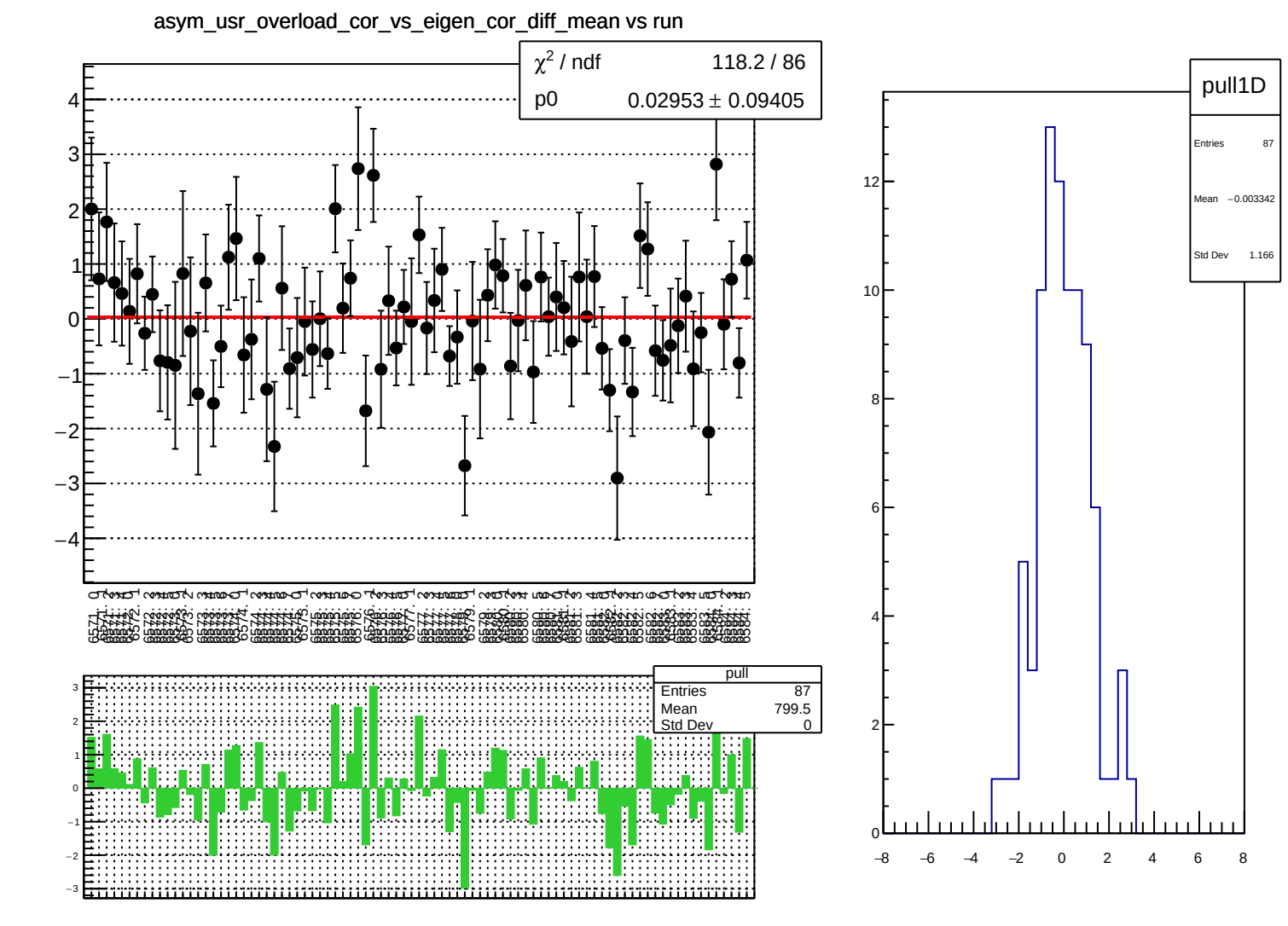

pull1D
Entries 87
Mean −0.01618
Std Dev 0.936

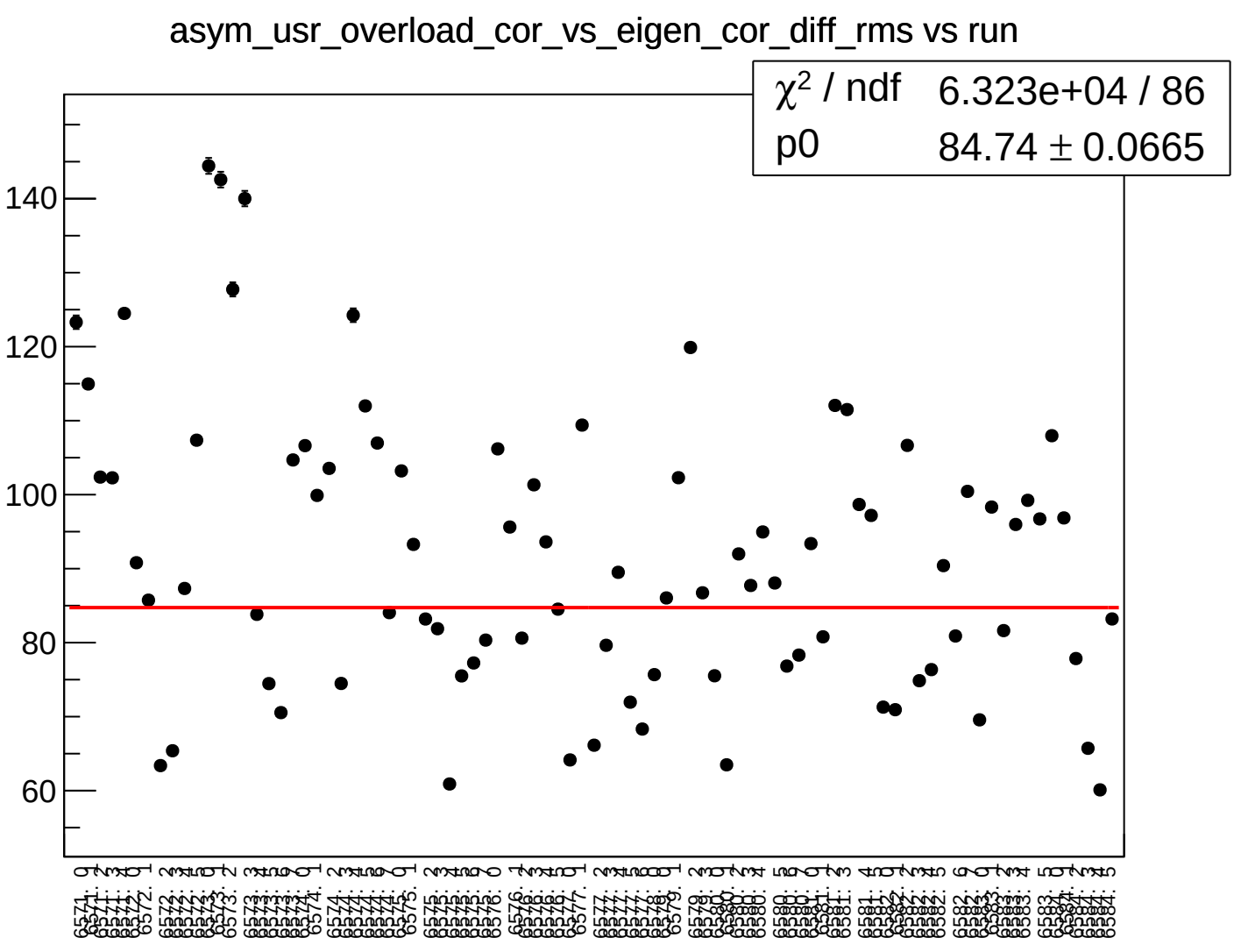

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.565e+05 / 86
p0 1.301e−11 ± 1.282e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

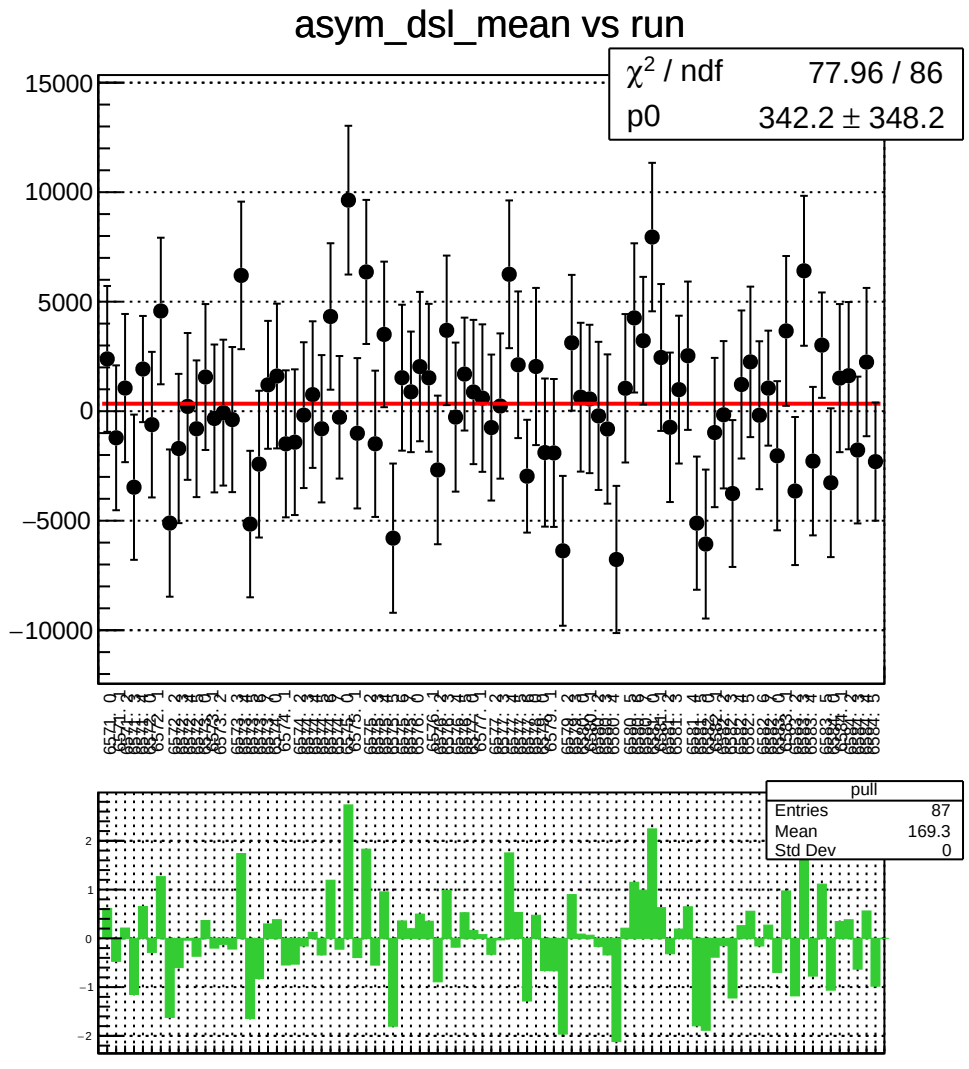

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 118.2 / 86
p0 0.02953 ± 0.09405
pull
Entries 87
Mean 799.5
Std Dev 0

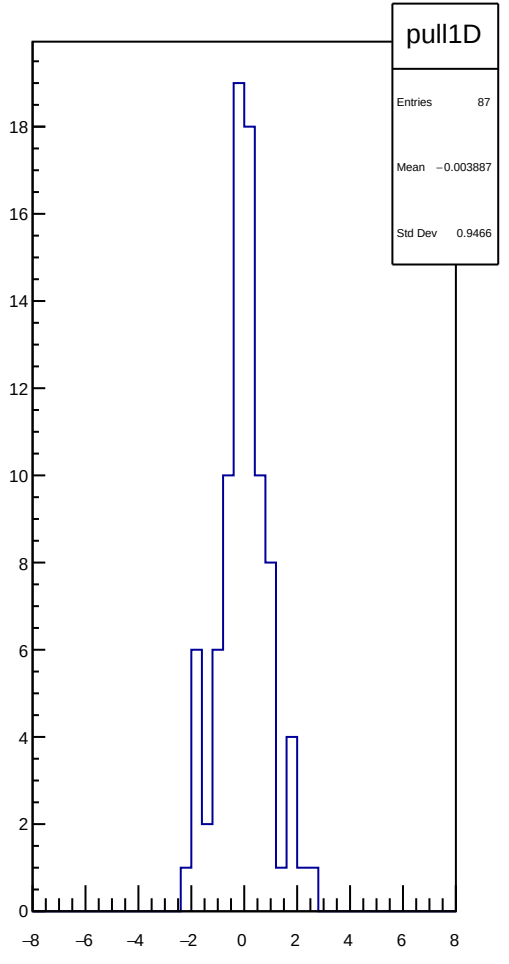

pull1D
Entries 87
Mean −0.003342
Std Dev 1.166

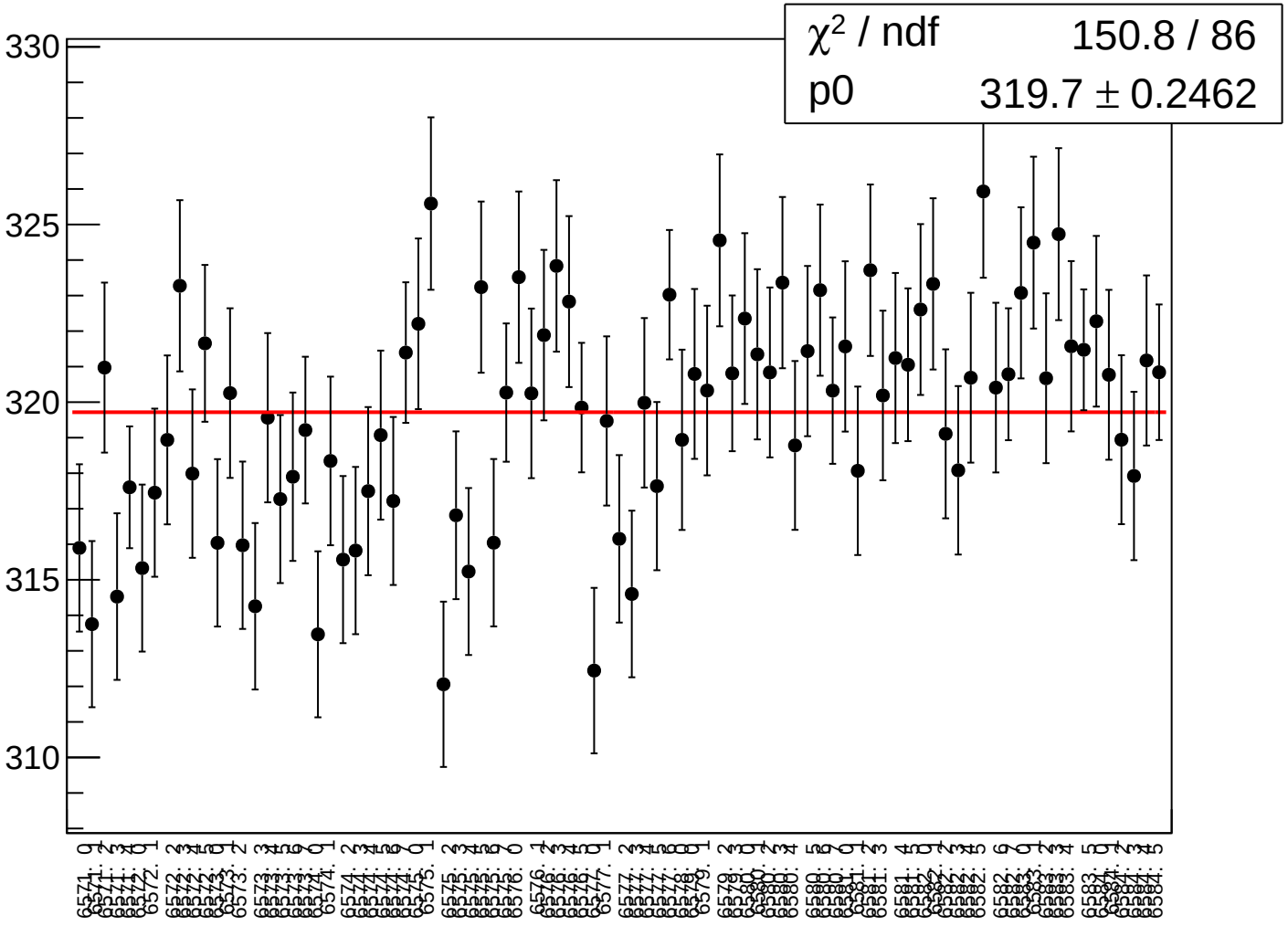

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 6.323e+04 / 86
p0 84.74 ± 0.0665
140
120
100
80
60

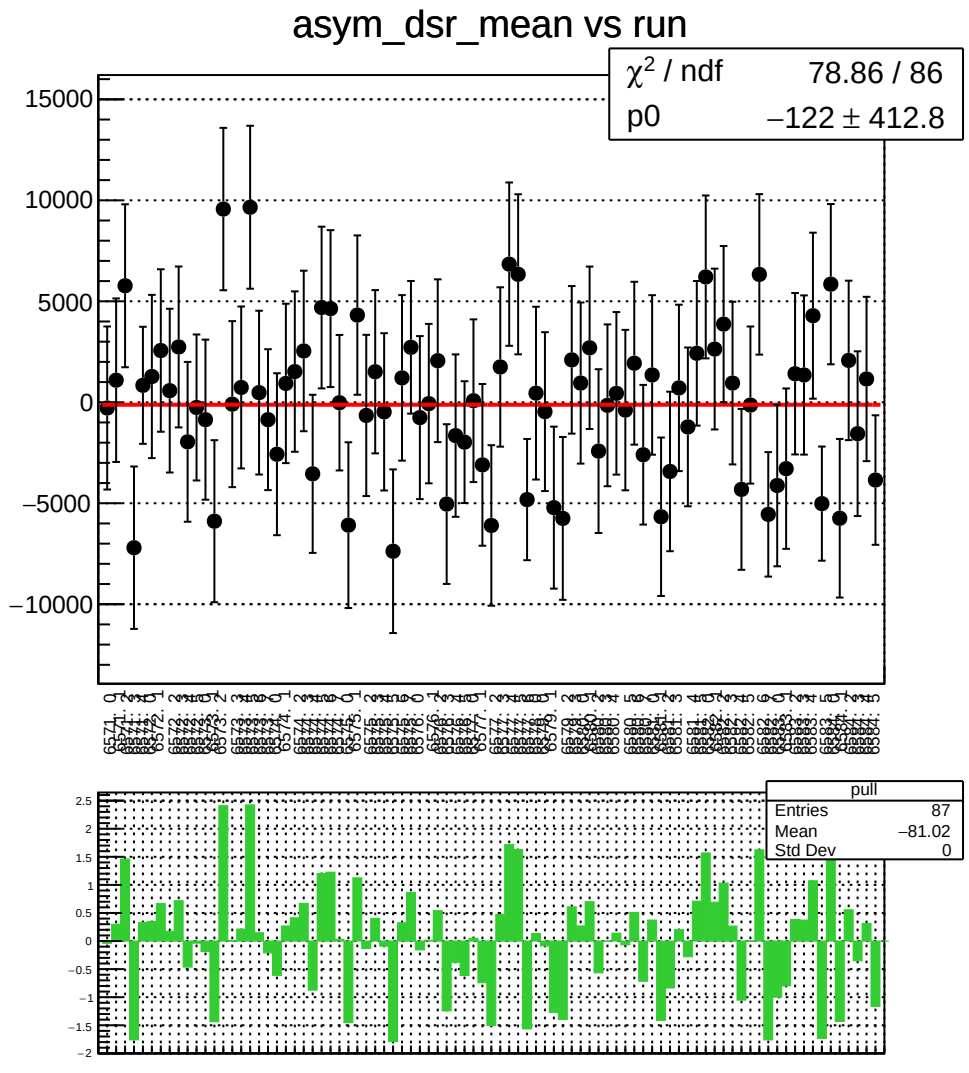

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.2 / 86
p0 0.02953 ± 0.09405
pull
Entries 87
Mean 799.5
Std Dev 0
pull1D
Entries 87
Mean −0.003342
Std Dev 1.166

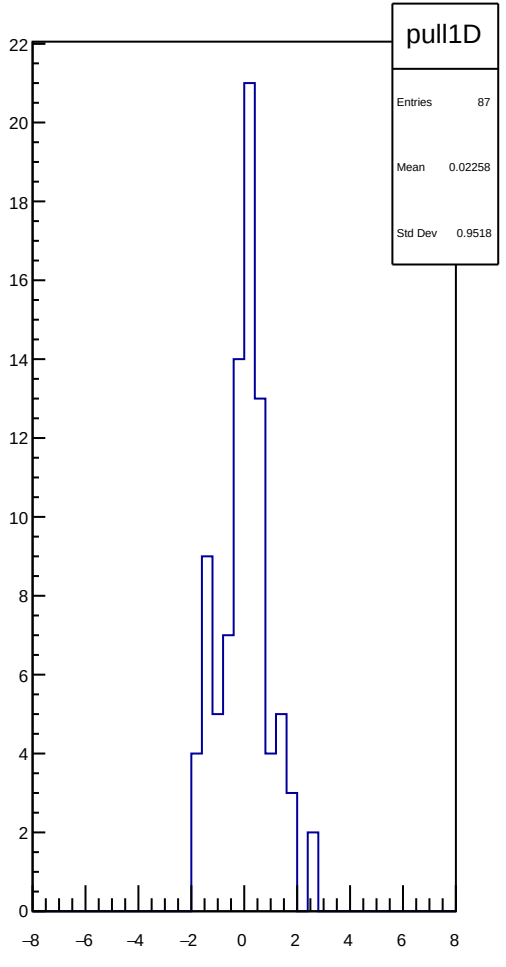

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.323e+04 / 86
p0 84.74 ± 0.0665
140
120
100
80
60

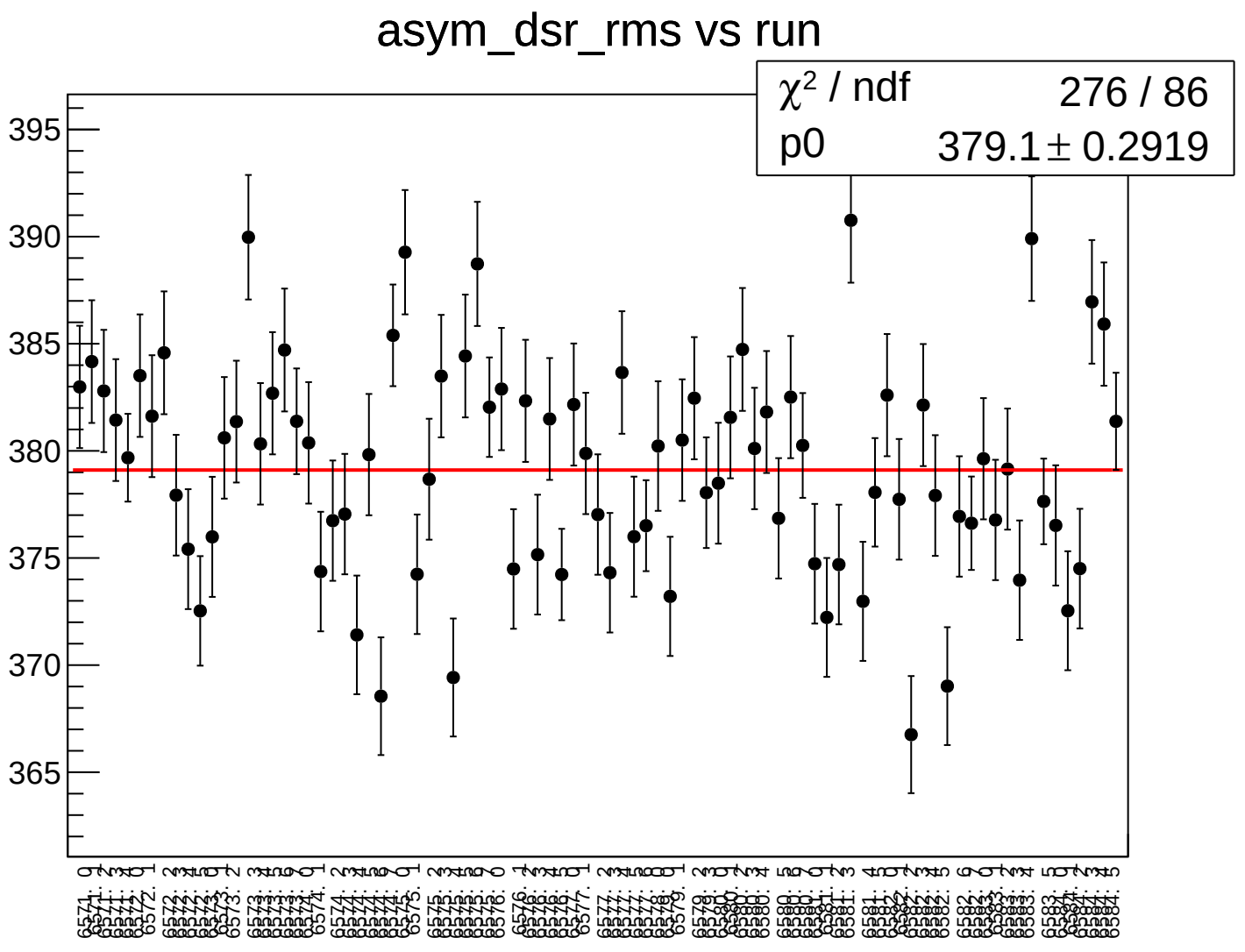

asym_dsl_mean vs run
χ² / ndf 77.96 / 86
p0 342.2 ± 348.2
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 169.3
Std Dev 0
2
1
0
−1
−2

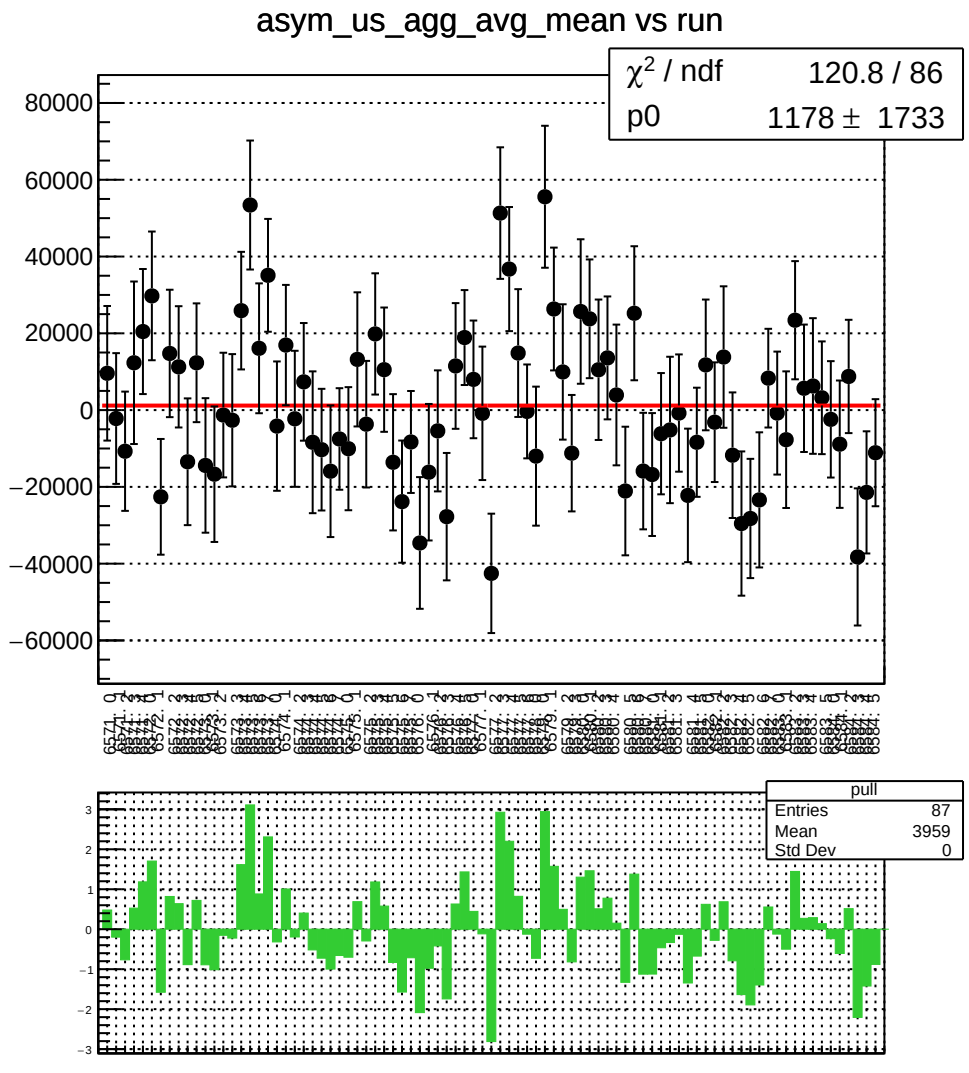

pull1D
Entries 87
Mean −0.003887
Std Dev 0.9466
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

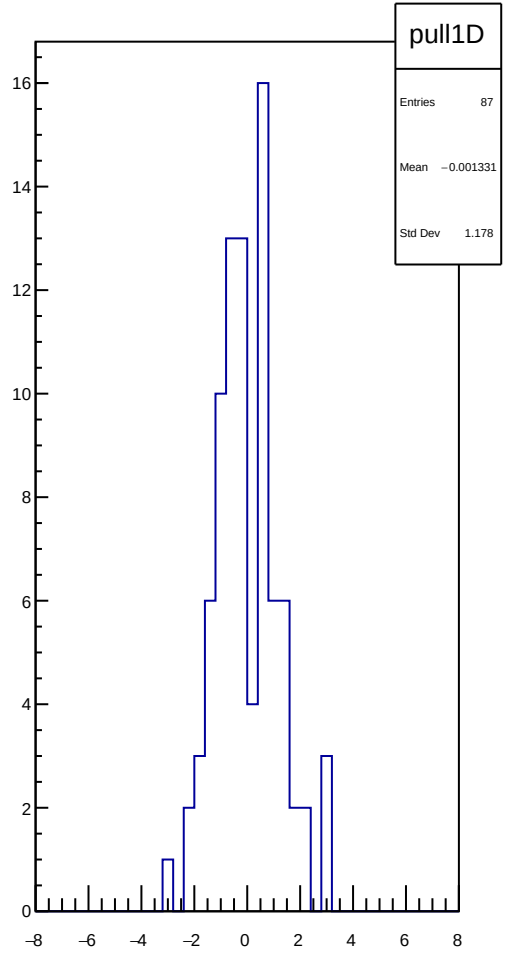

asym_dsl_rms vs run
χ^2 / ndf 150.8 / 86
p0 319.7 ± 0.2462
330
325
320
315
310

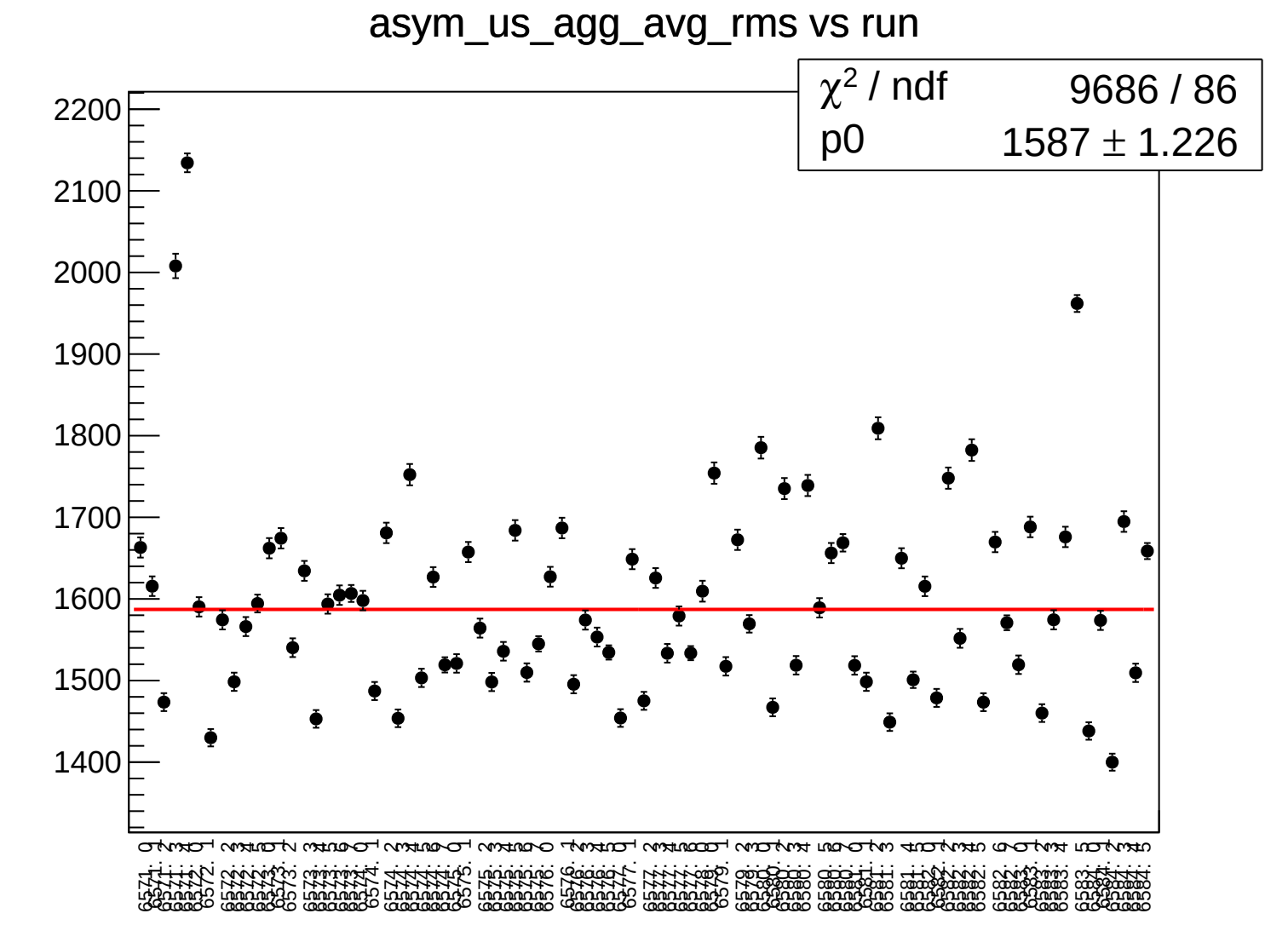

asym_dsr_mean vs run
χ² / ndf 78.86 / 86
p0 −122 ± 412.8
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −81.02
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

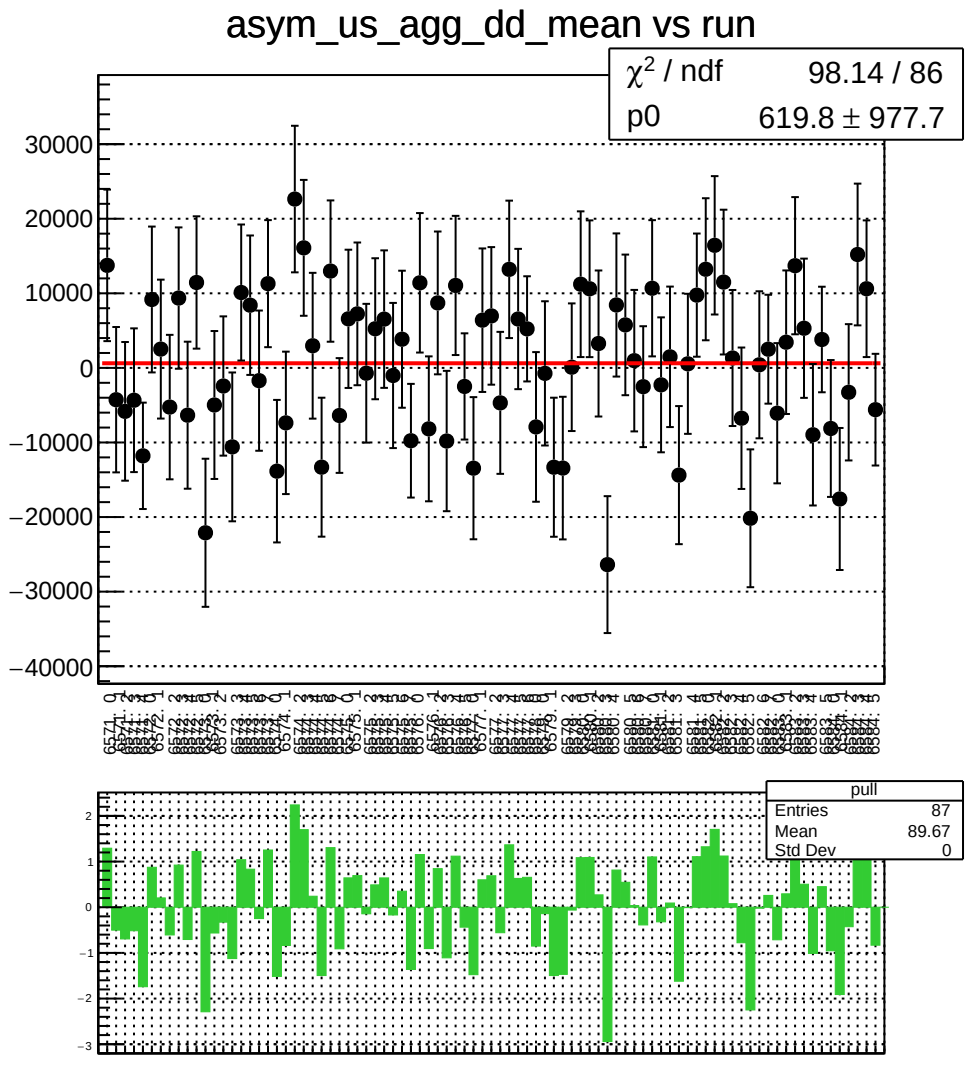

pull1D
Entries 87
Mean 0.02258
Std Dev 0.9518
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

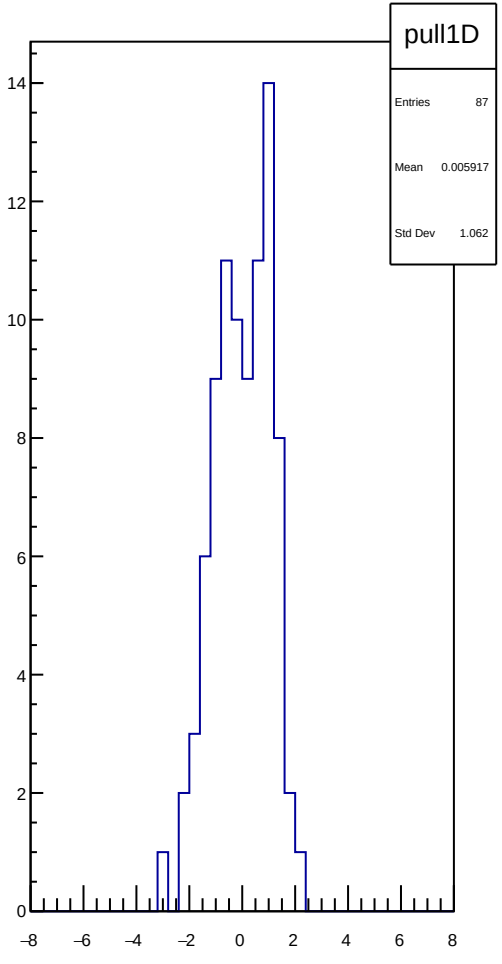

asym_dsr_rms vs run
χ² / ndf 276 / 86
p0 379.1 ± 0.2919
395
390
385
380
375
370
365

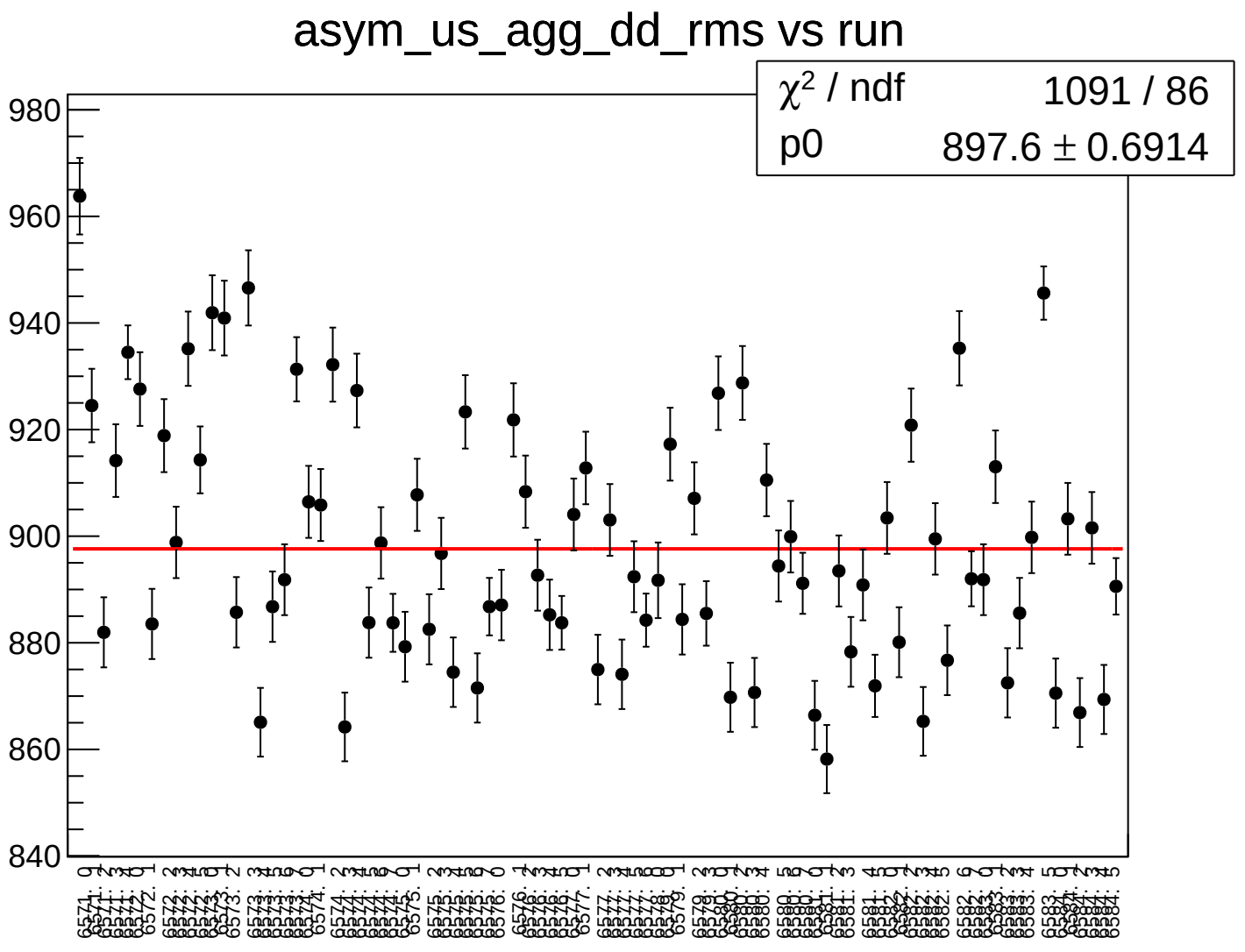

asym_us_agg_avg_mean vs run
χ² / ndf 120.8 / 86
p0 1178 ± 1733
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 3959
Std Dev 0
3
2
1
0
−1
−2
−3

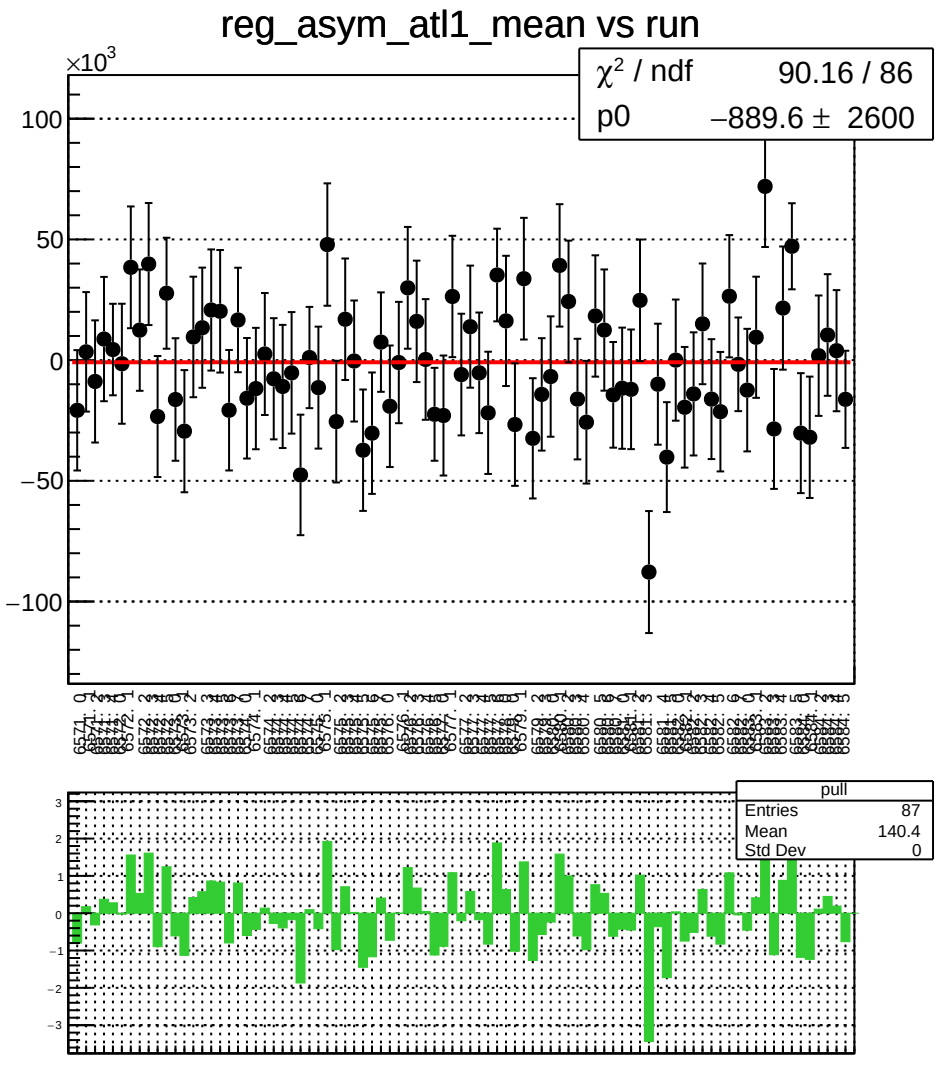

pull1D
Entries 87
Mean −0.001331
Std Dev 1.178
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

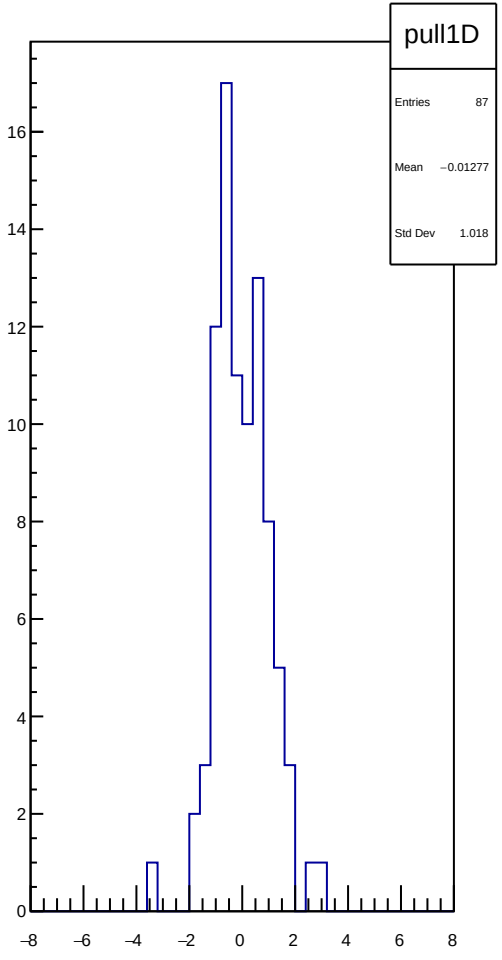

asym_us_agg_avg_rms vs run
χ² / ndf 9686 / 86
p0 1587 ± 1.226
2200
2100
2000
1900
1800
1700
1600
1500
1400

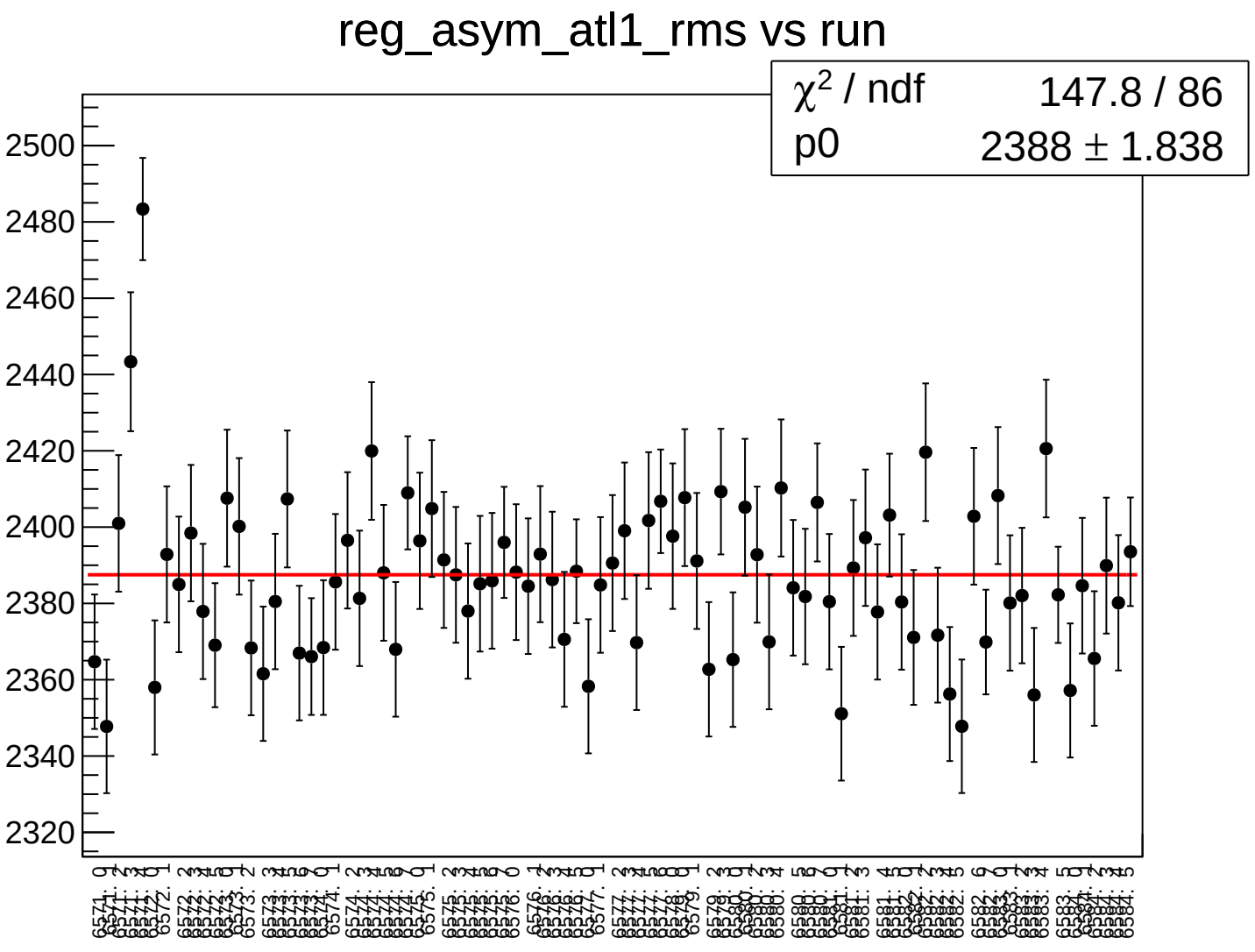

asym_us_agg_dd_mean vs run
χ^2 / ndf 98.14 / 86
p0 619.8 ± 977.7
pull
Entries 87
Mean 89.67
Std Dev 0

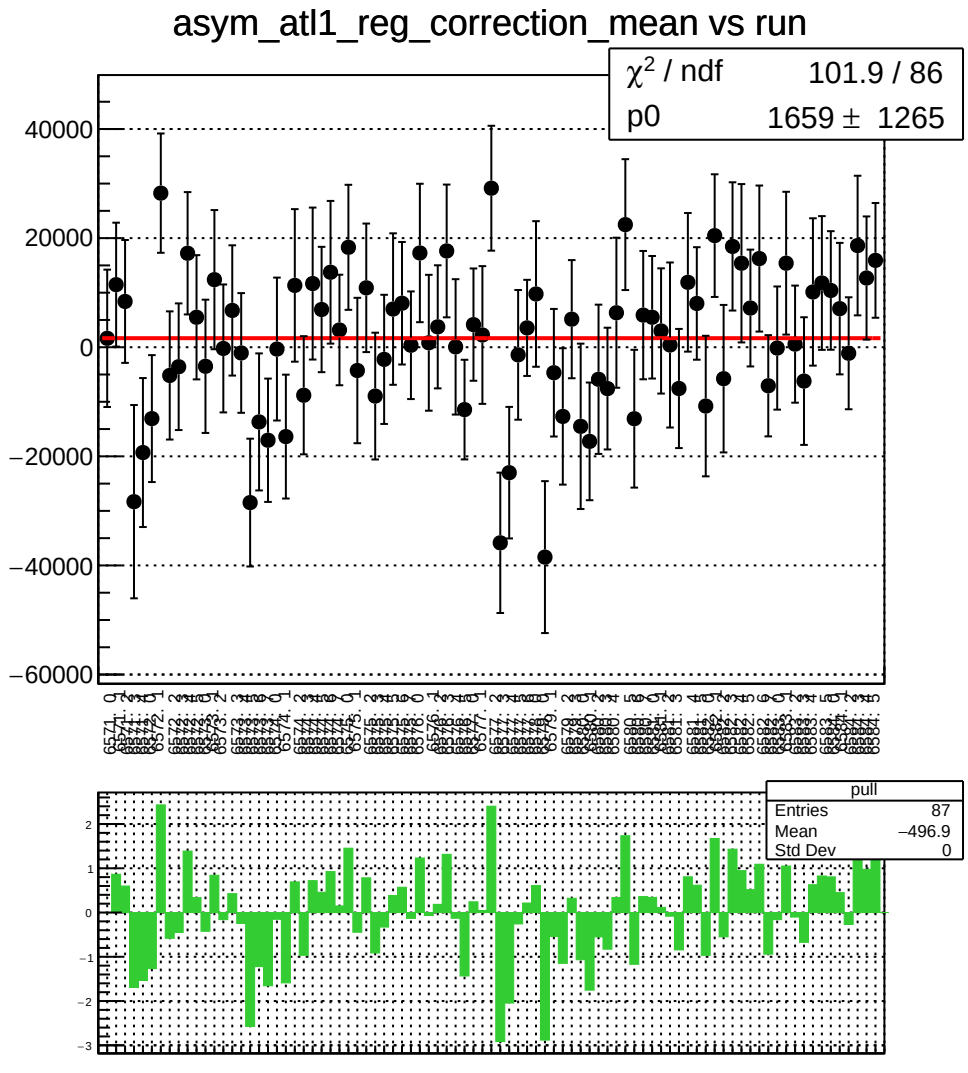

pull1D
Entries 87
Mean 0.005917
Std Dev 1.062

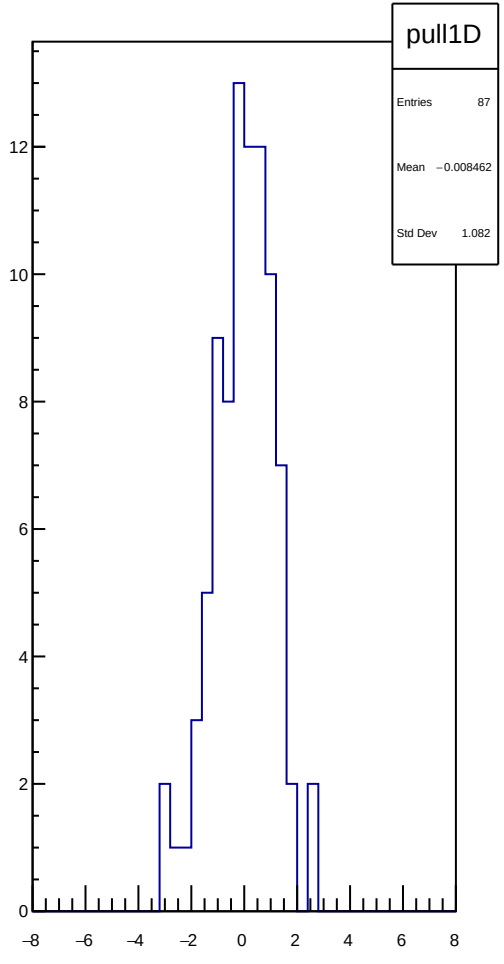

asym_us_agg_dd_rms vs run
χ^2 / ndf 1091 / 86
p0 897.6 ± 0.6914
980
960
940
920
900
880
860
840

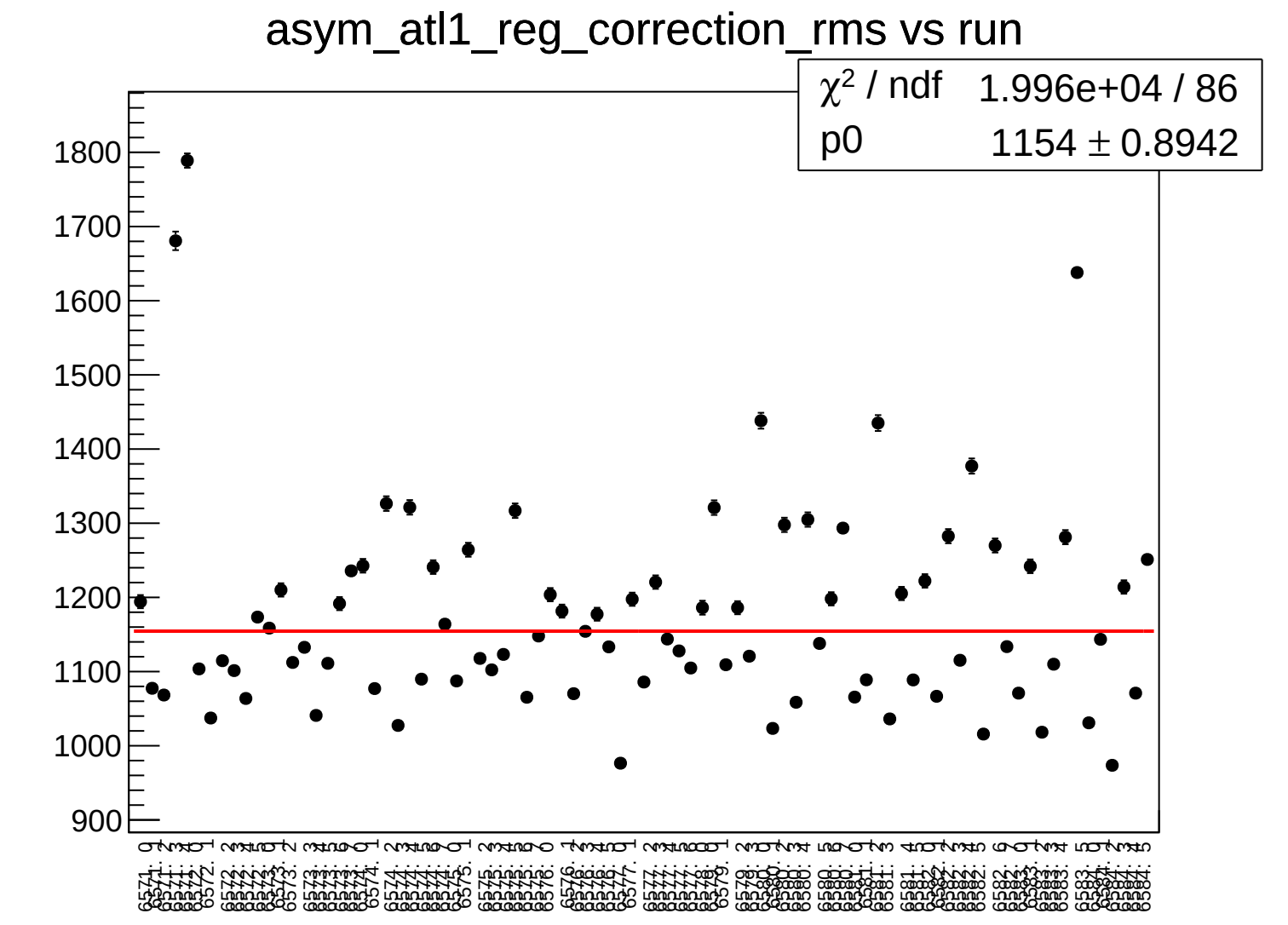

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 90.16 / 86
p0 −889.6 ± 2600
100
50
0
−50
−100
pull
Entries 87
Mean 140.4
Std Dev 0
3
2
1
0
−1
−2
−3

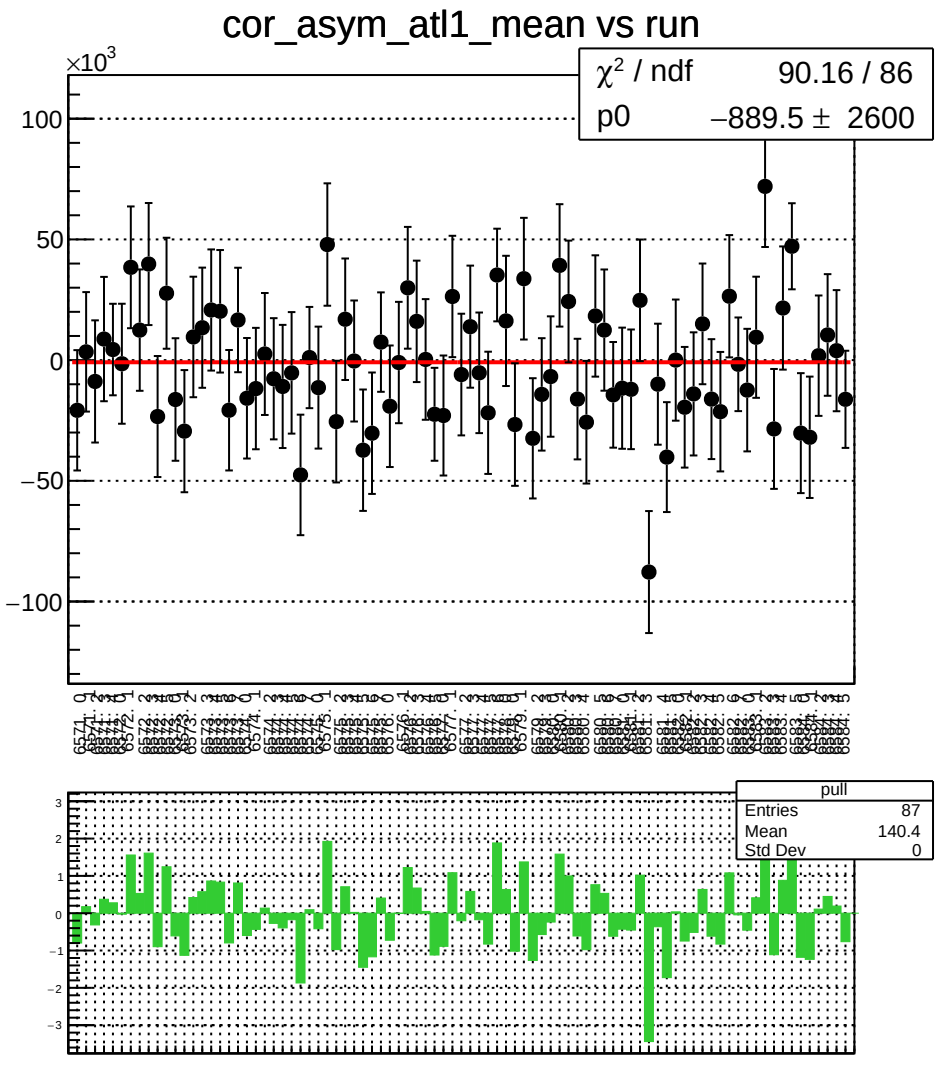

pull1D
Entries 87
Mean −0.01277
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

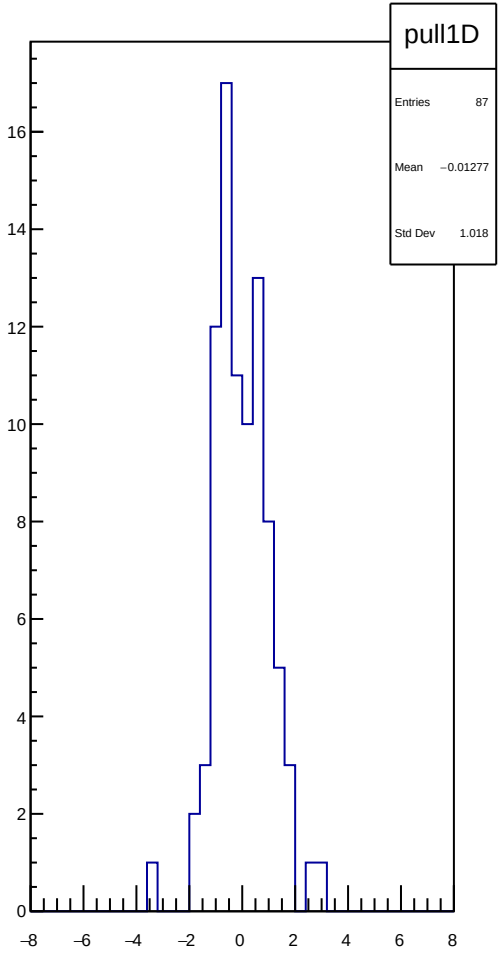

reg_asym_atl1_rms vs run
χ² / ndf 147.8 / 86
p0 2388 ± 1.838
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

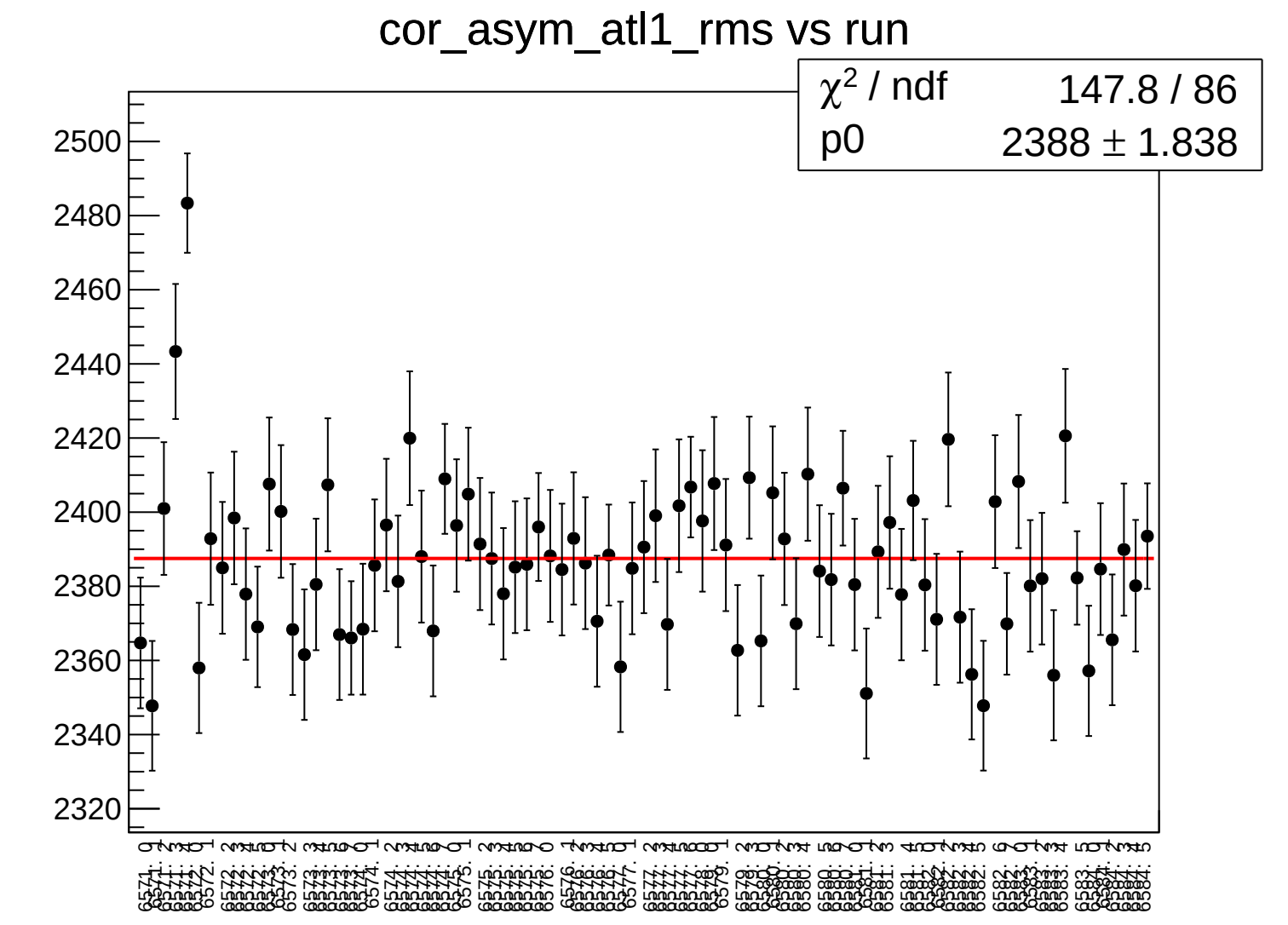

asym_atl1_reg_correction_mean vs run
χ² / ndf 101.9 / 86
p0 1659 ± 1265
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −496.9
Std Dev 0
2
1
0
−1
−2
−3

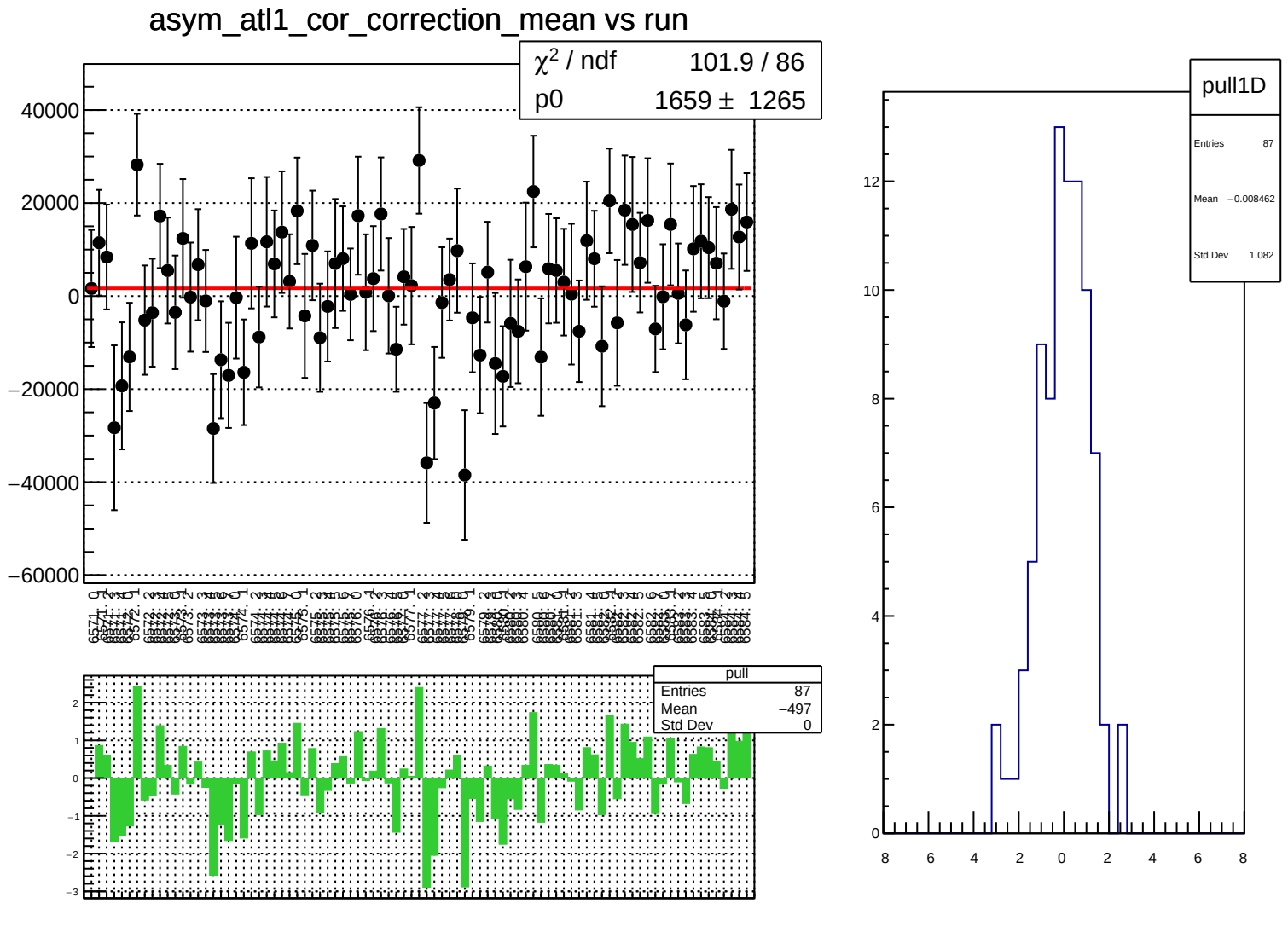

pull1D
Entries 87
Mean −0.008462
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

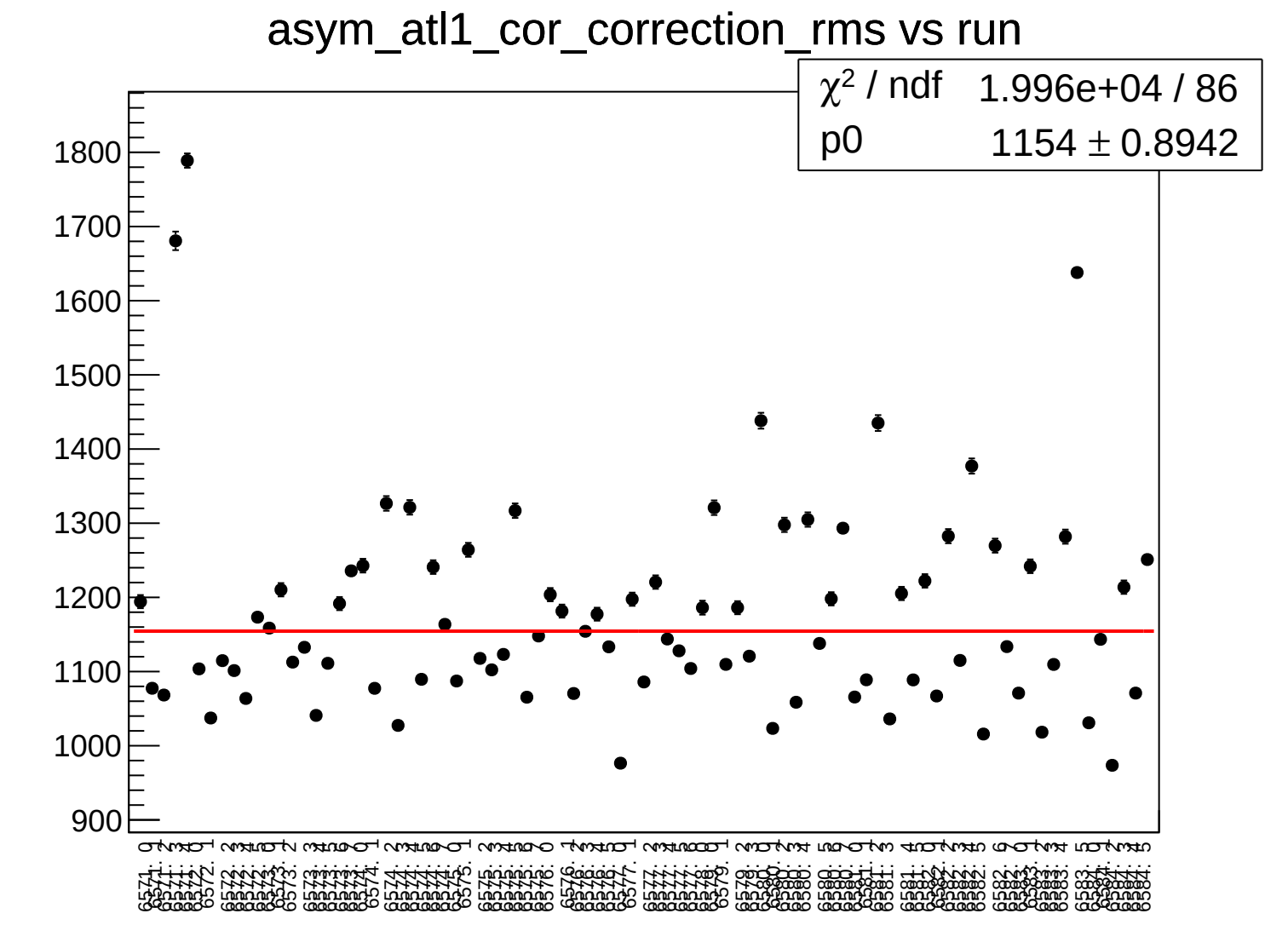

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.996e+04 / 86
p0 1154 ± 0.8942
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

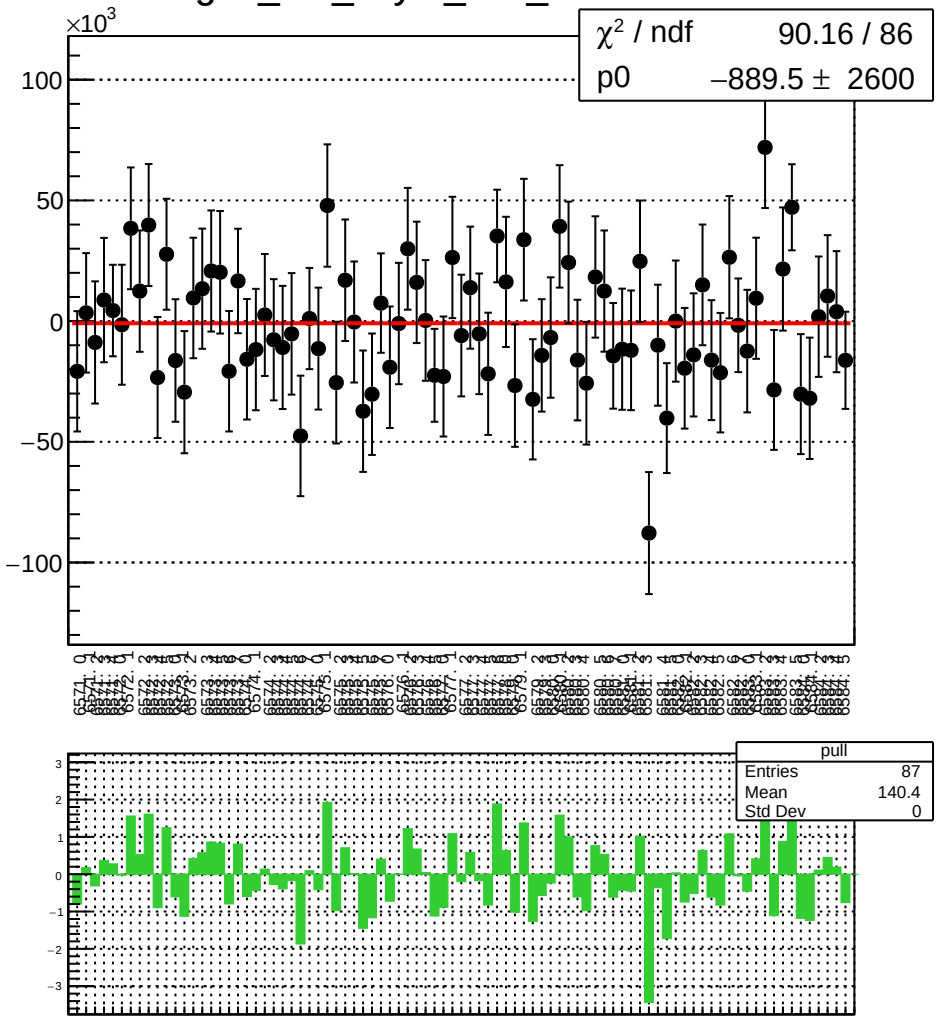

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 90.16 / 86
p0 −889.5 ± 2600
100
50
0
−50
−100
pull
Entries 87
Mean 140.4
Std Dev 0
3
2
1
0
−1
−2
−3

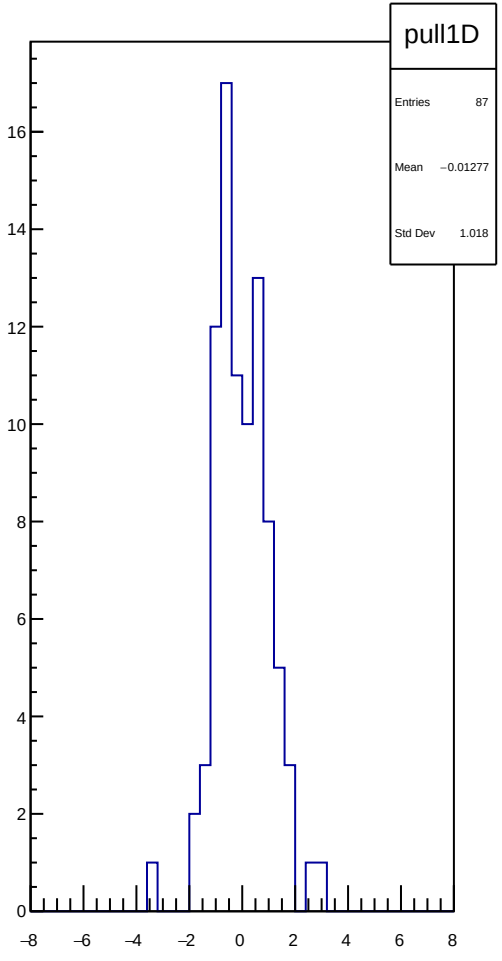

pull1D
Entries 87
Mean −0.01277
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

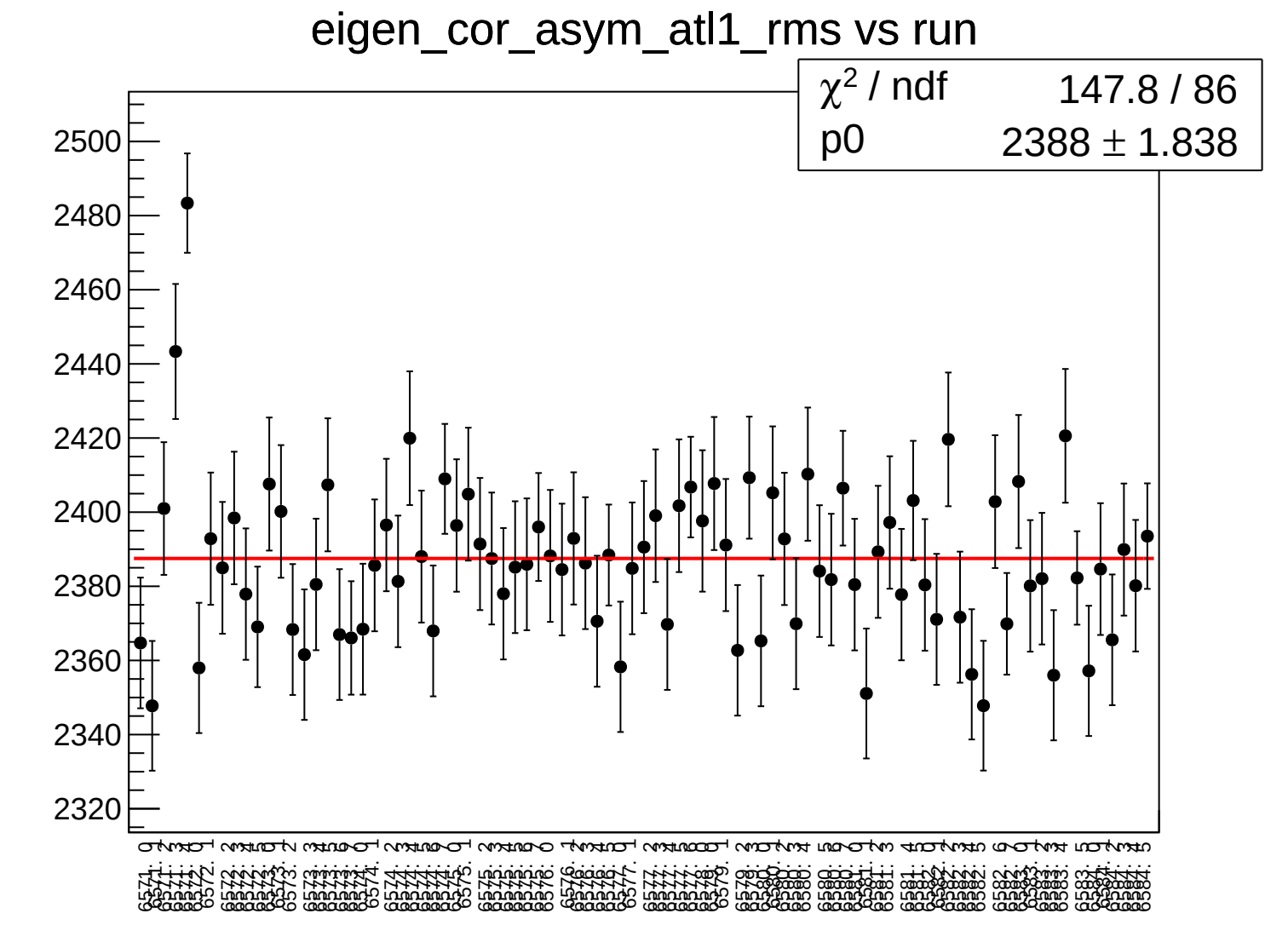

cor_asym_atl1_rms vs run
χ^2 / ndf 147.8 / 86
p0 2388 ± 1.838
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

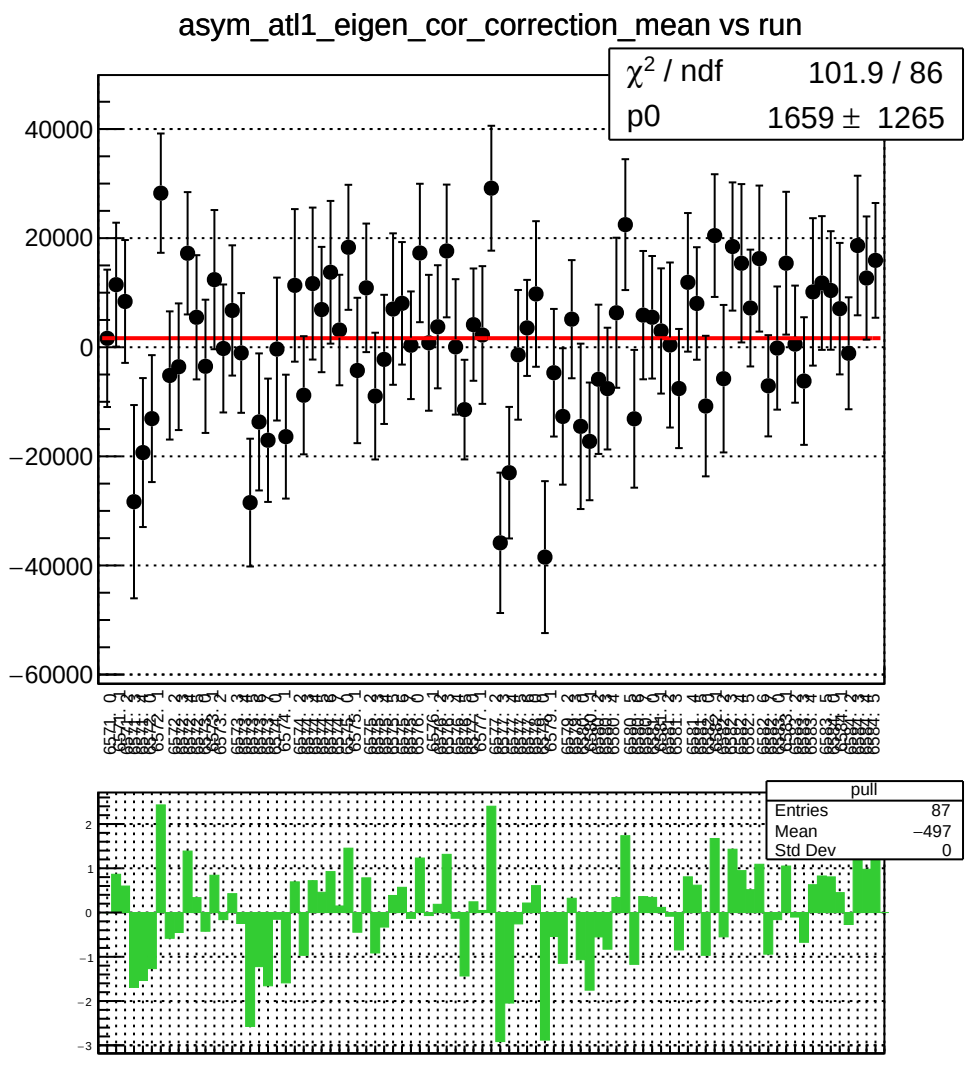

asym_atl1_cor_correction_mean vs run
χ² / ndf 101.9 / 86
p0 1659 ± 1265
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −497
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.008462
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

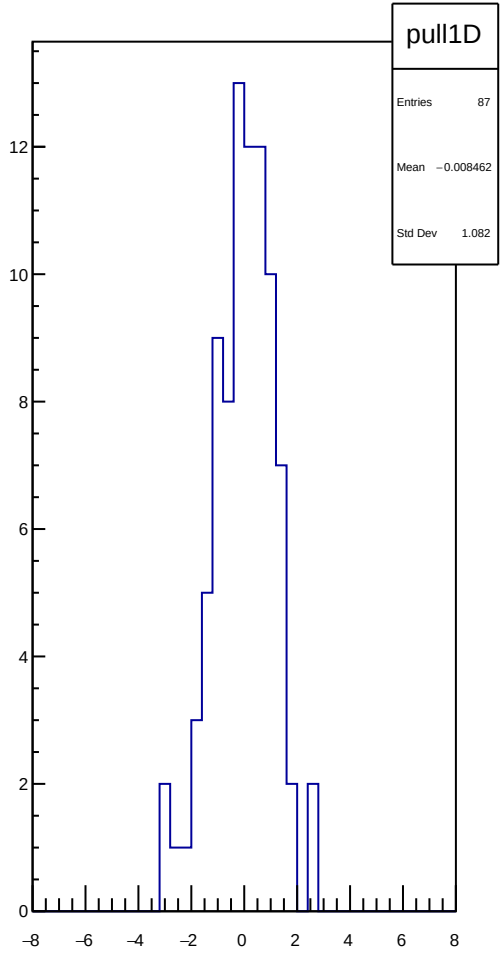

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.996e+04 / 86
p0 1154 ± 0.8942
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

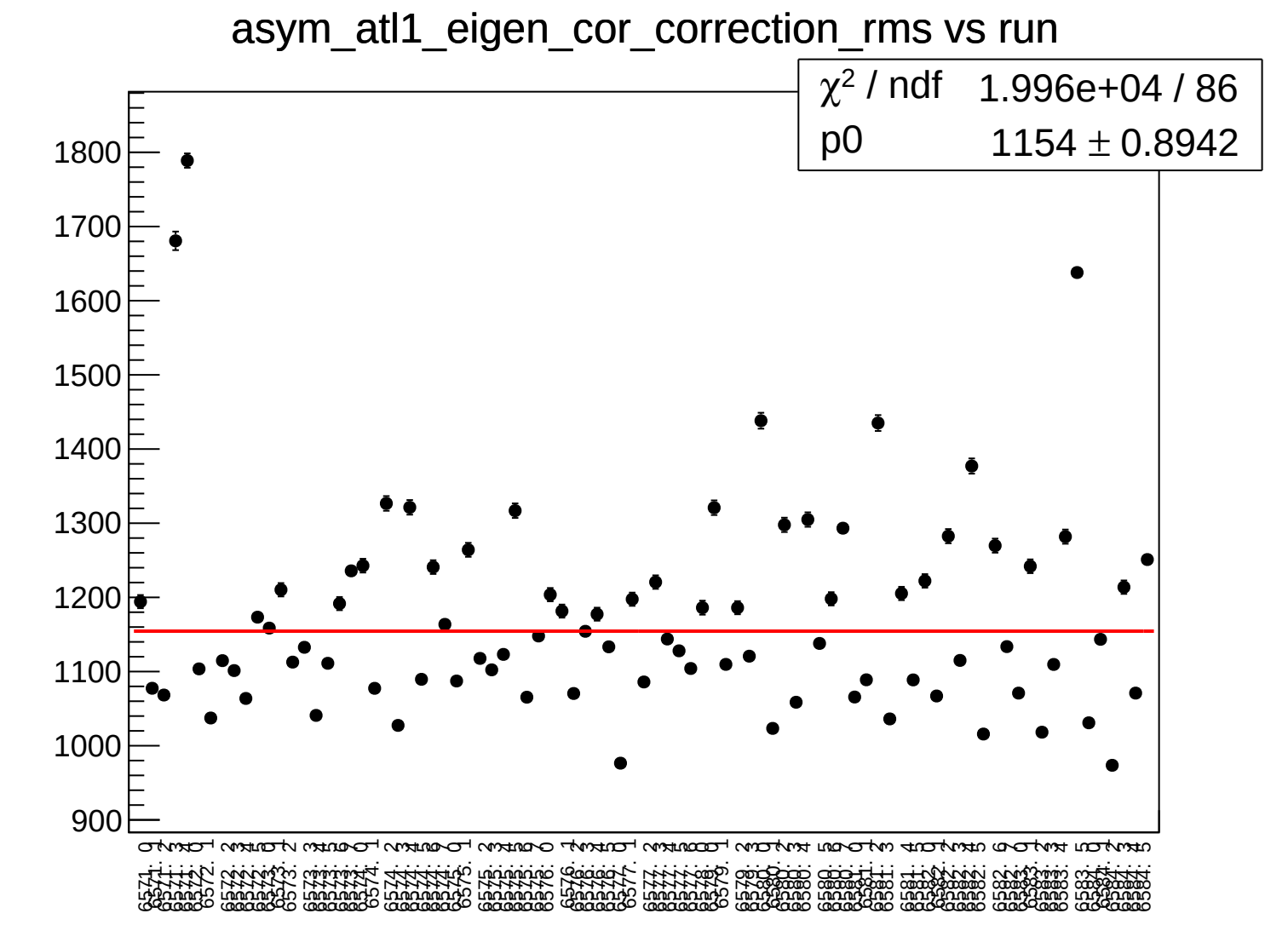

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 90.16 / 86
p0 −889.5 ± 2600
pull
Entries 87
Mean 140.4
Std Dev 0

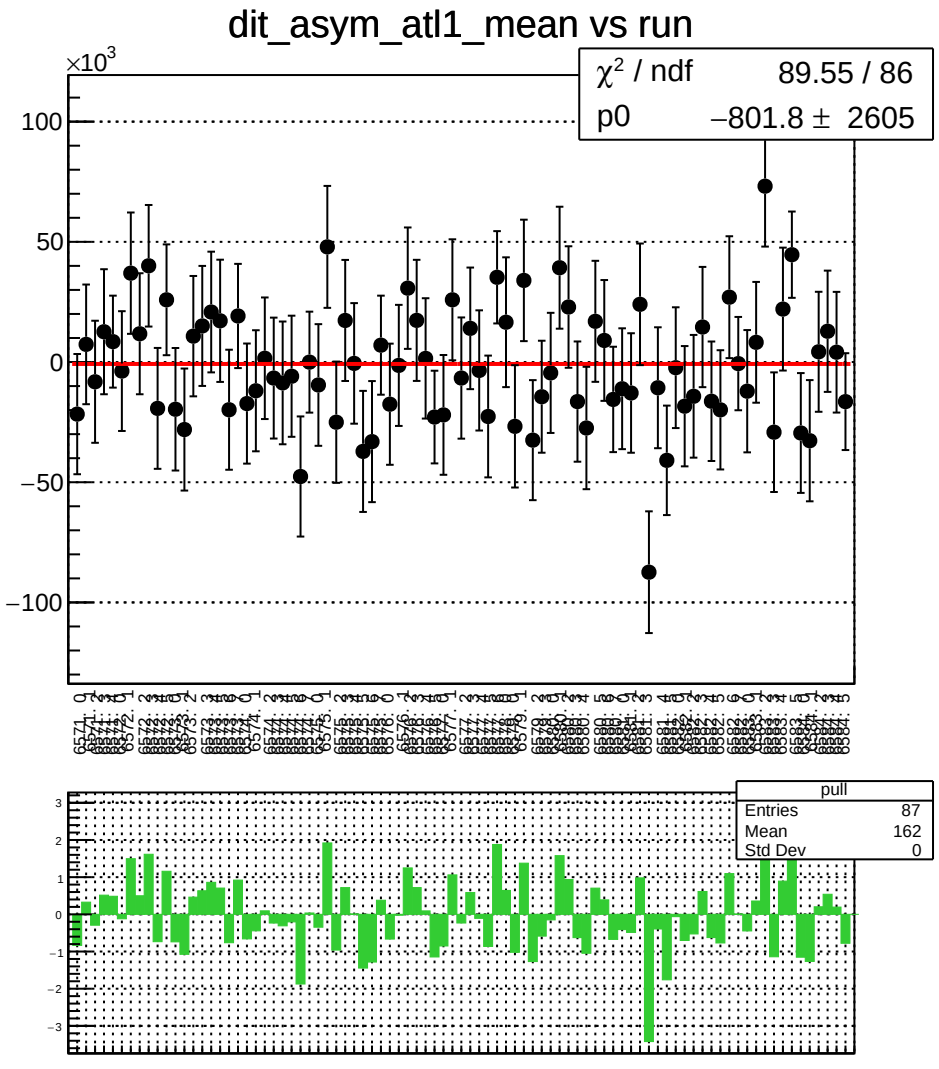

pull1D
Entries 87
Mean −0.01277
Std Dev 1.018

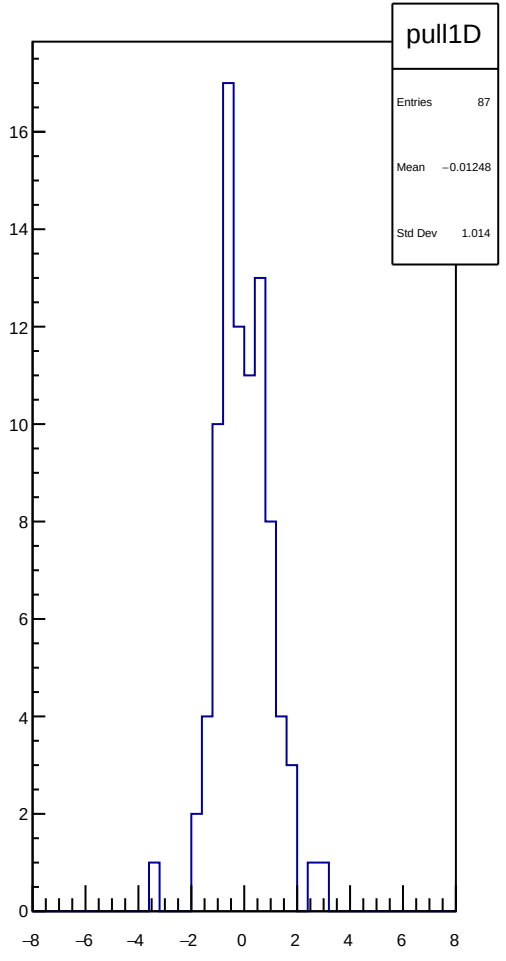

eigen_cor_asym_atl1_rms vs run
χ² / ndf 147.8 / 86
p0 2388 ± 1.838
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

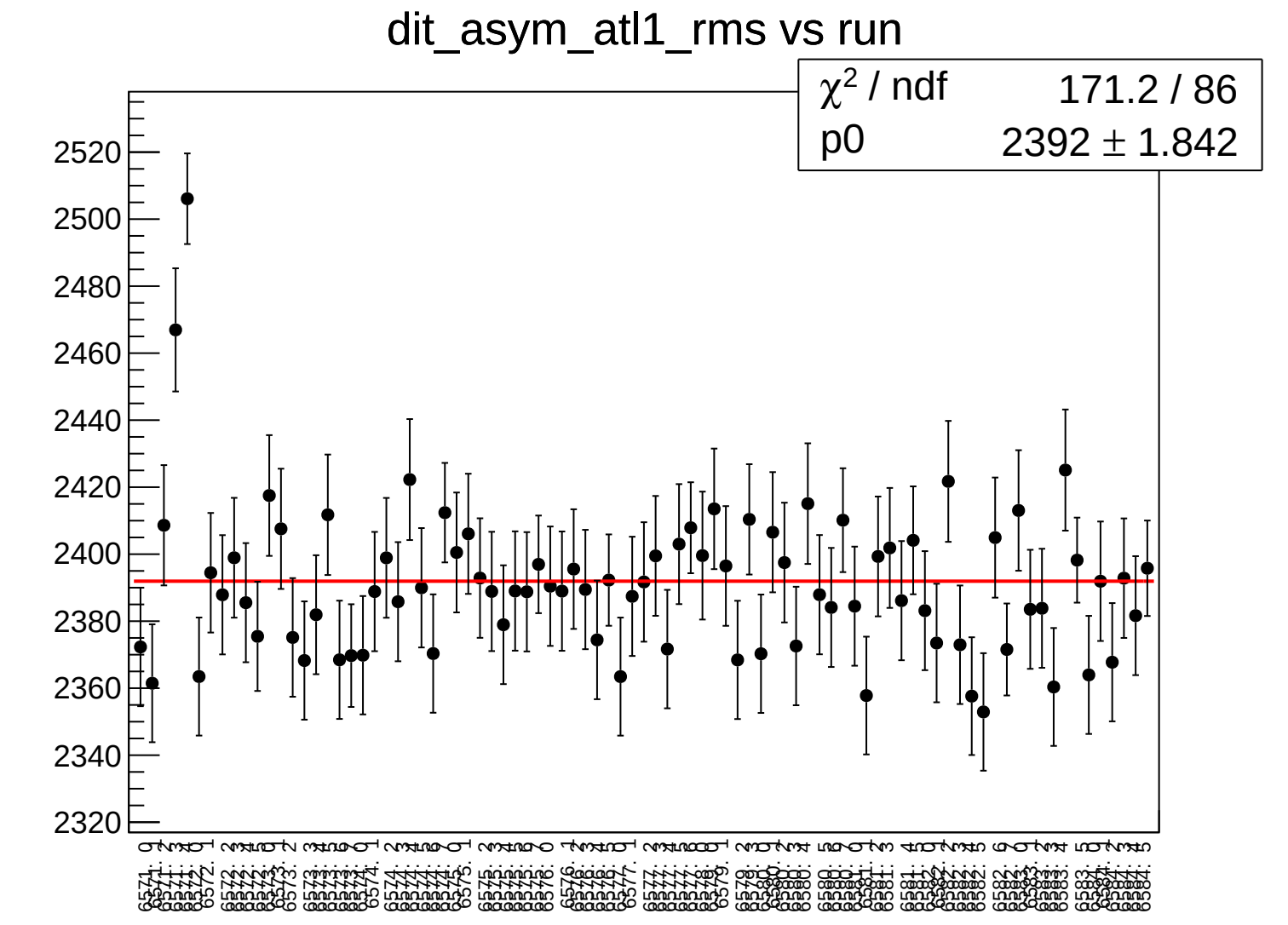

asym_atl1_eigen_cor_correction_mean vs run
χ^2 / ndf 101.9 / 86
p0 1659 ± 1265
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −497
Std Dev 0
2
1
0
−1
−2
−3

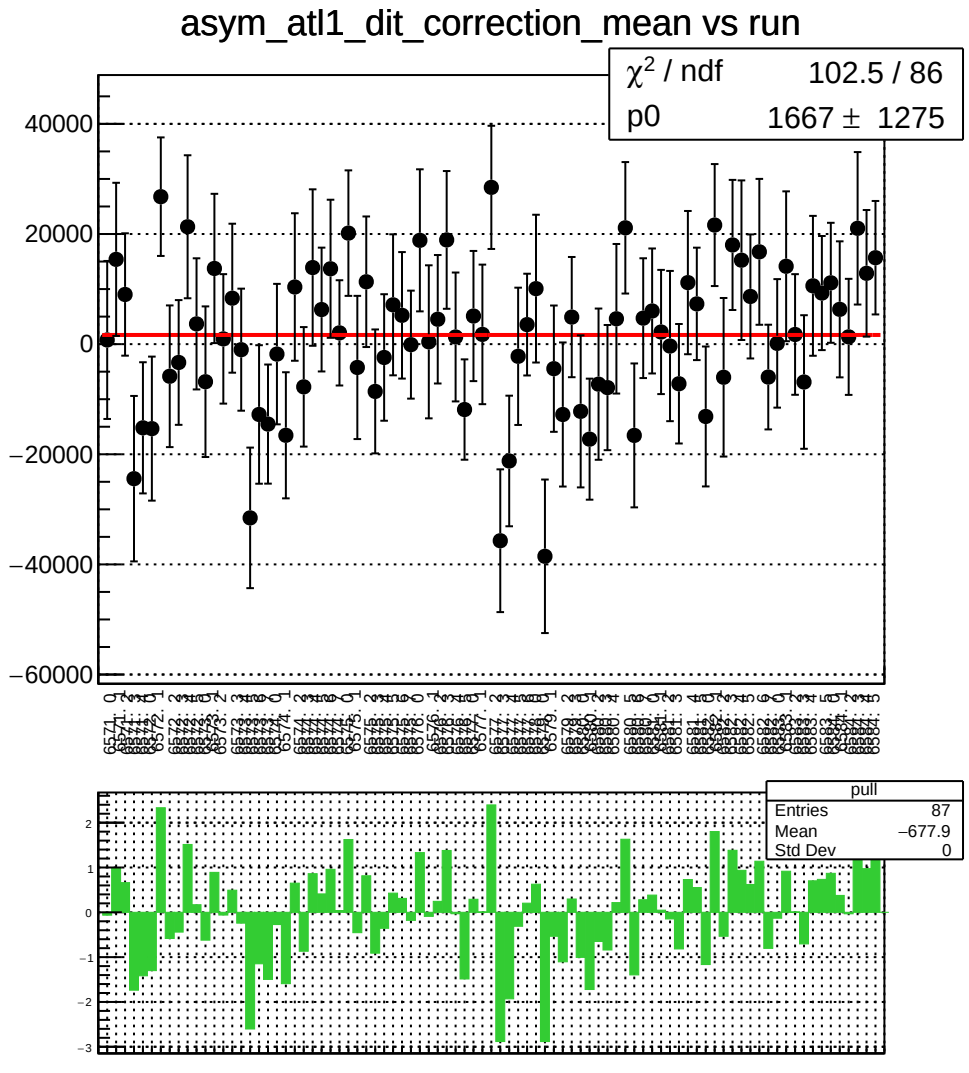

pull1D
Entries 87
Mean −0.008462
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

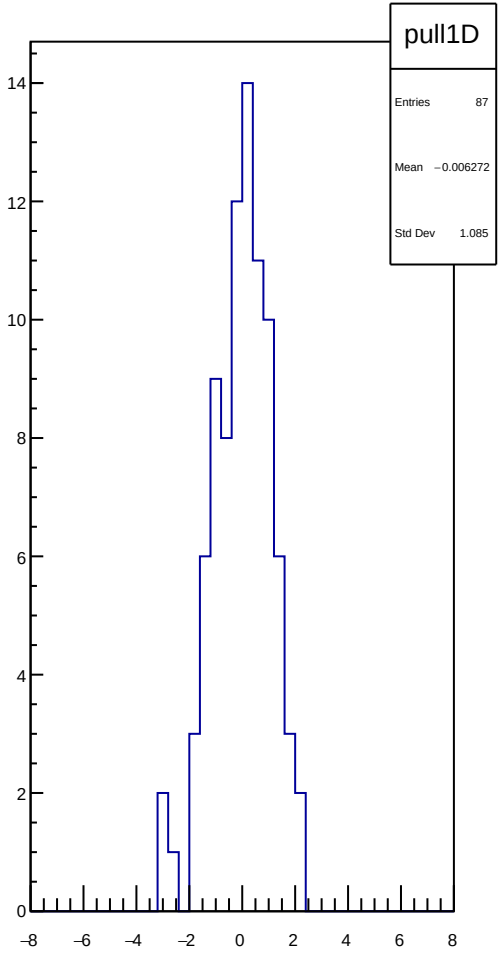

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.996e+04 / 86
p0 1154 ± 0.8942
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

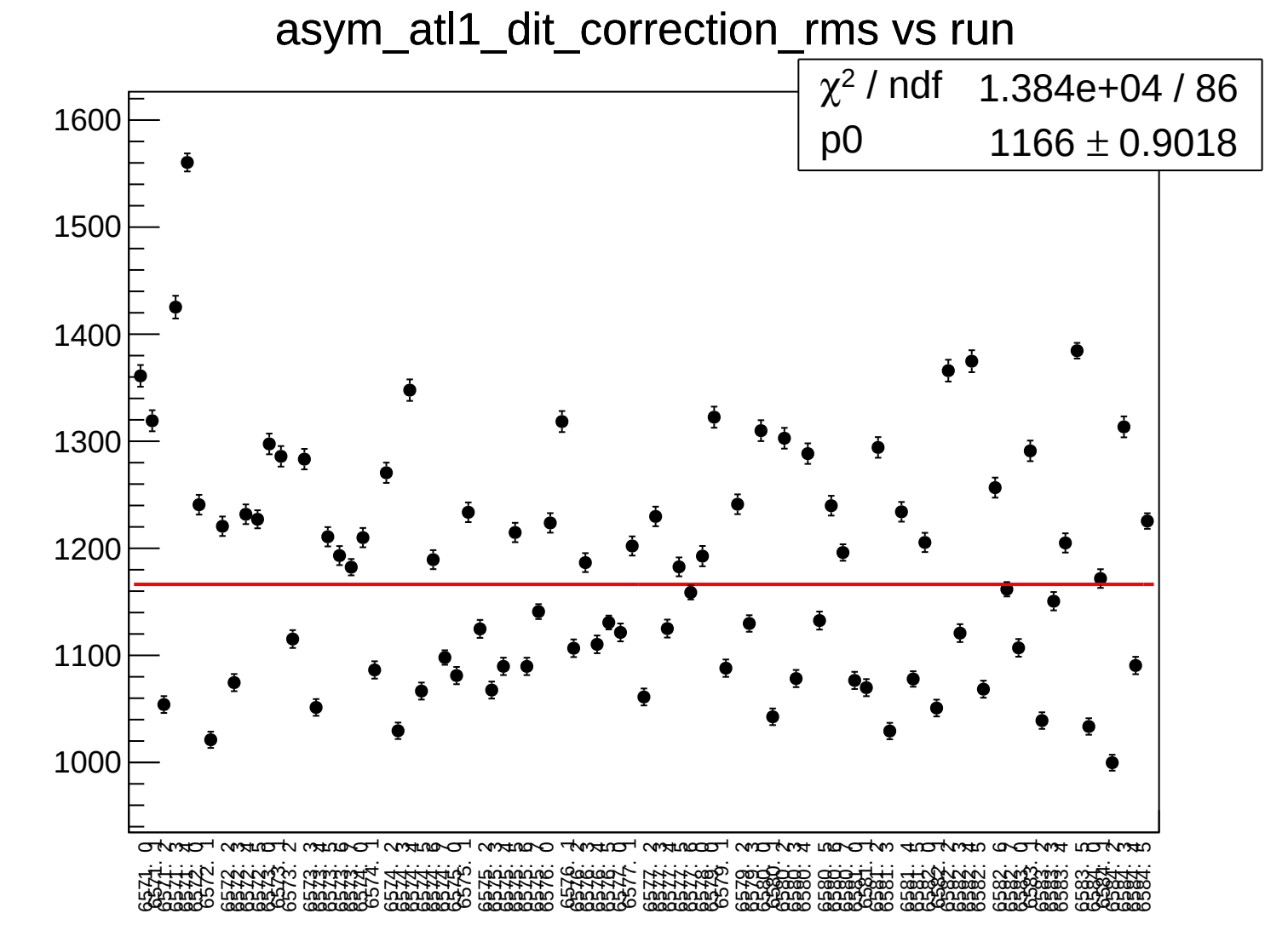

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 89.55 / 86
p0 −801.8 ± 2605
100
50
0
−50
−100
pull
Entries 87
Mean 162
Std Dev 0
3
2
1
0
−1
−2
−3

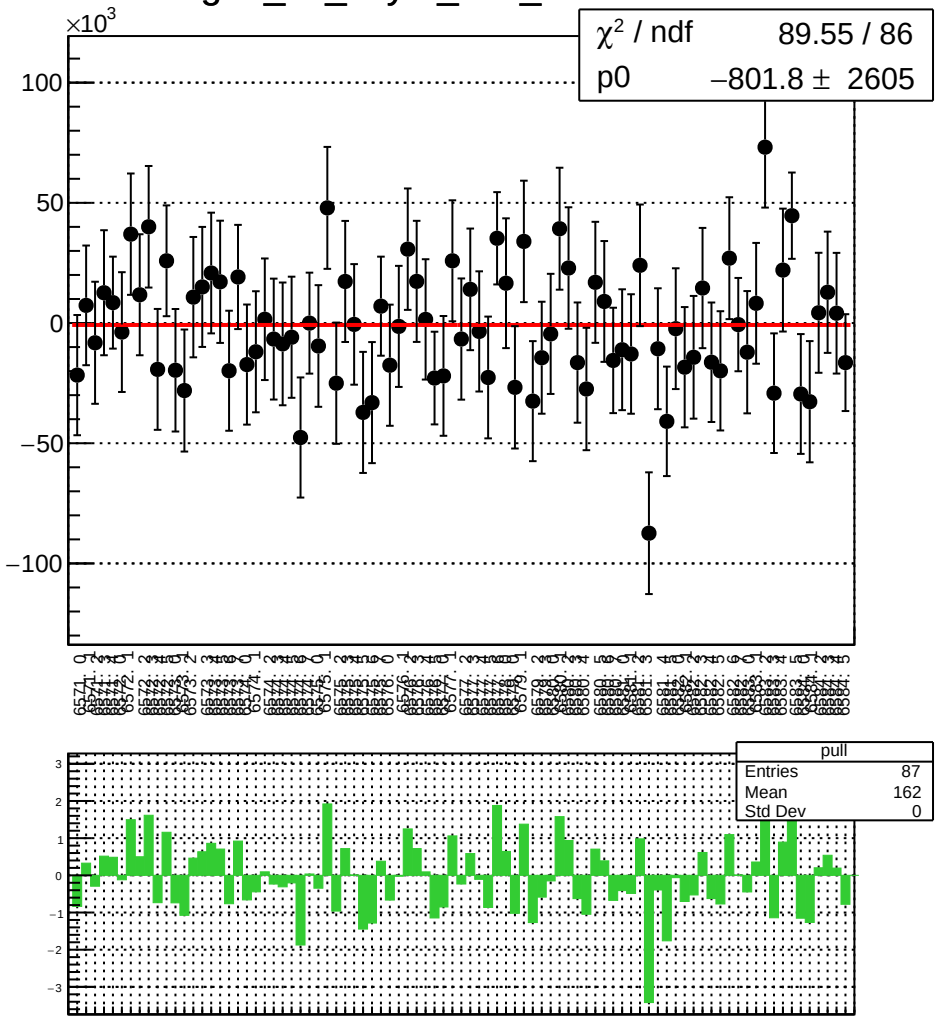

pull1D
Entries 87
Mean −0.01248
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

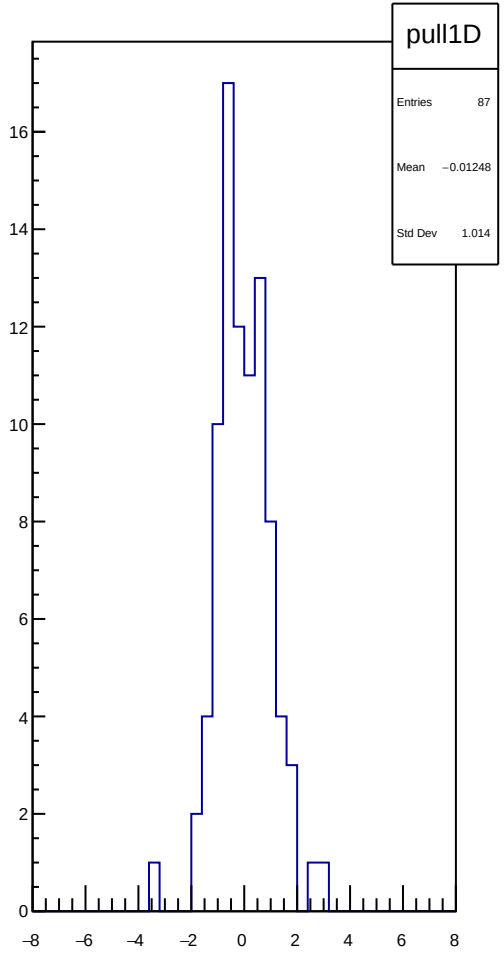

dit_asym_atl1_rms vs run
χ^2 / ndf 171.2 / 86
p0 2392 ± 1.842
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

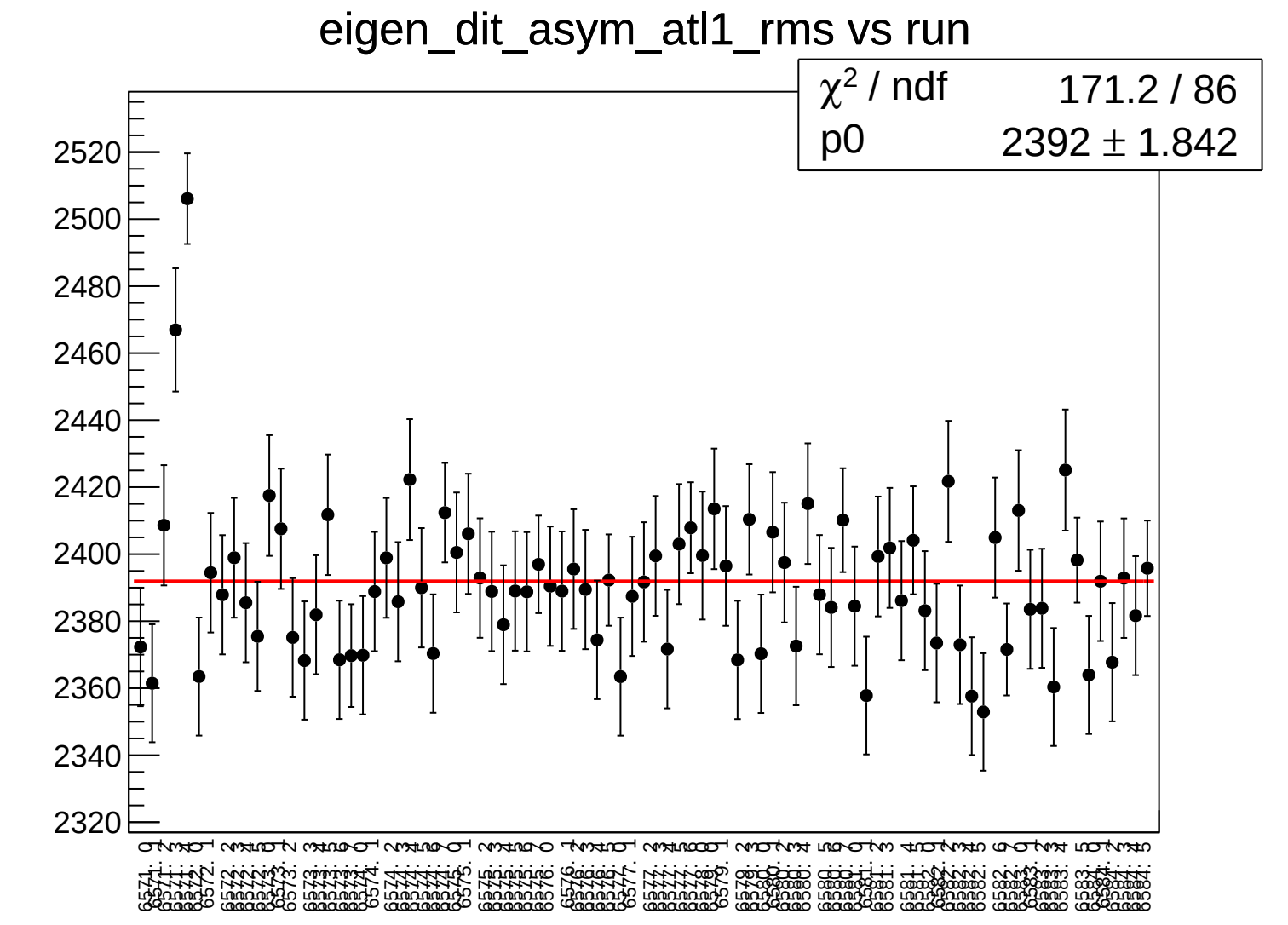

asym_atl1_dit_correction_mean vs run
χ² / ndf 102.5 / 86
p0 1667 ± 1275
pull
Entries 87
Mean −677.9
Std Dev 0

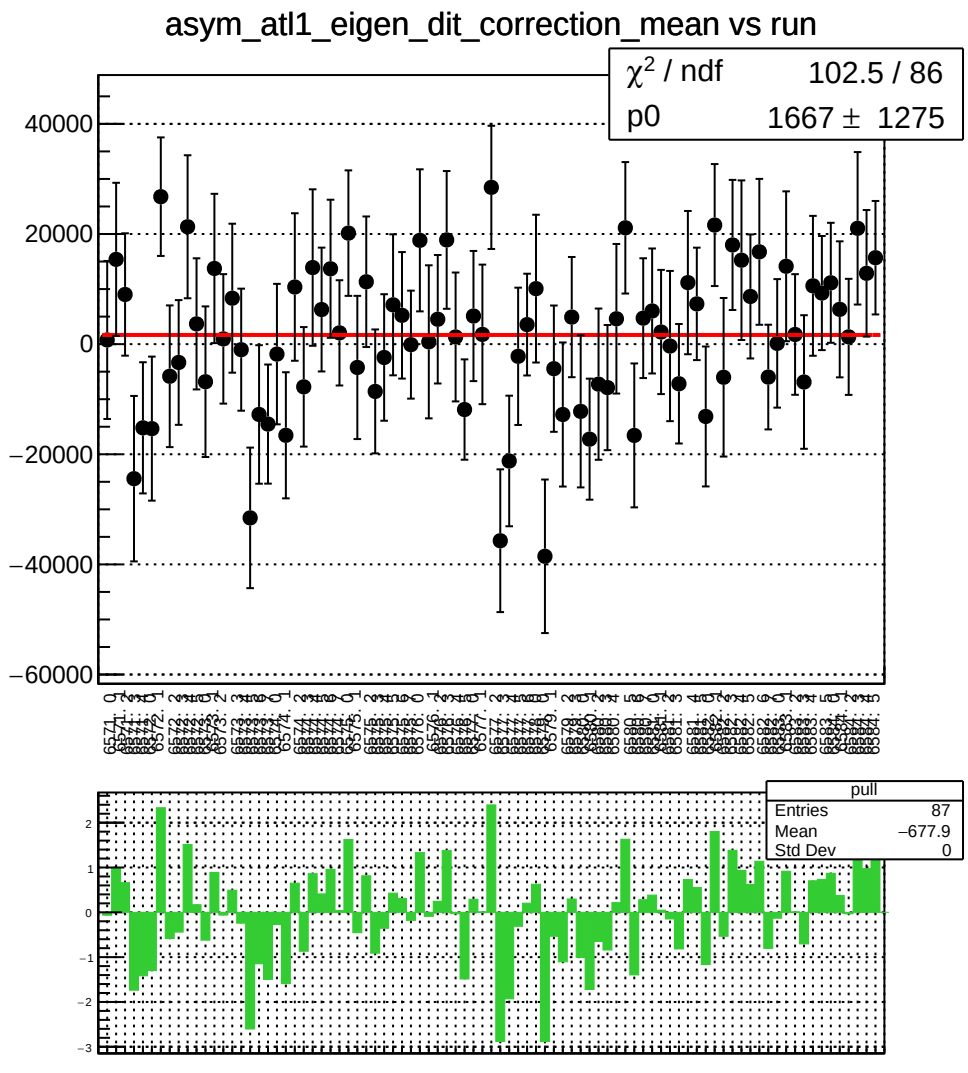

pull1D
Entries 87
Mean −0.006272
Std Dev 1.085

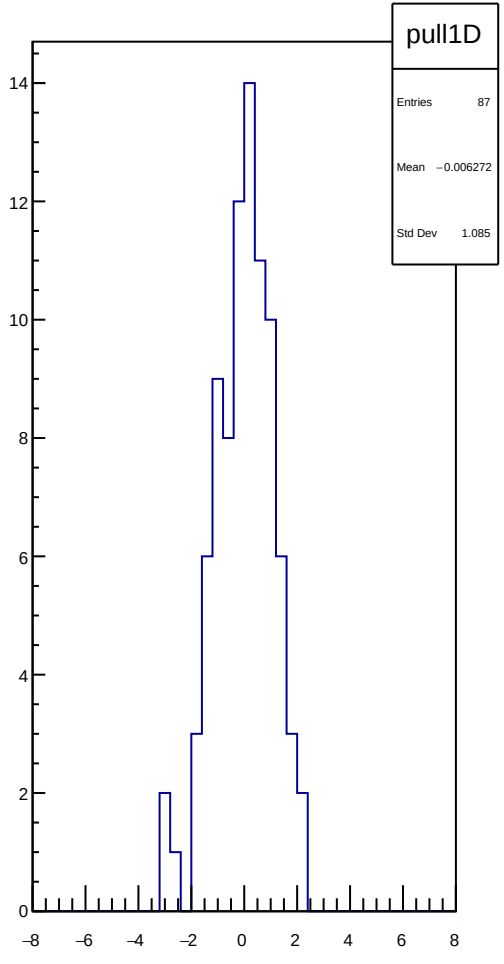

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.384e+04 / 86
p0 1166 ± 0.9018
1600
1500
1400
1300
1200
1100
1000

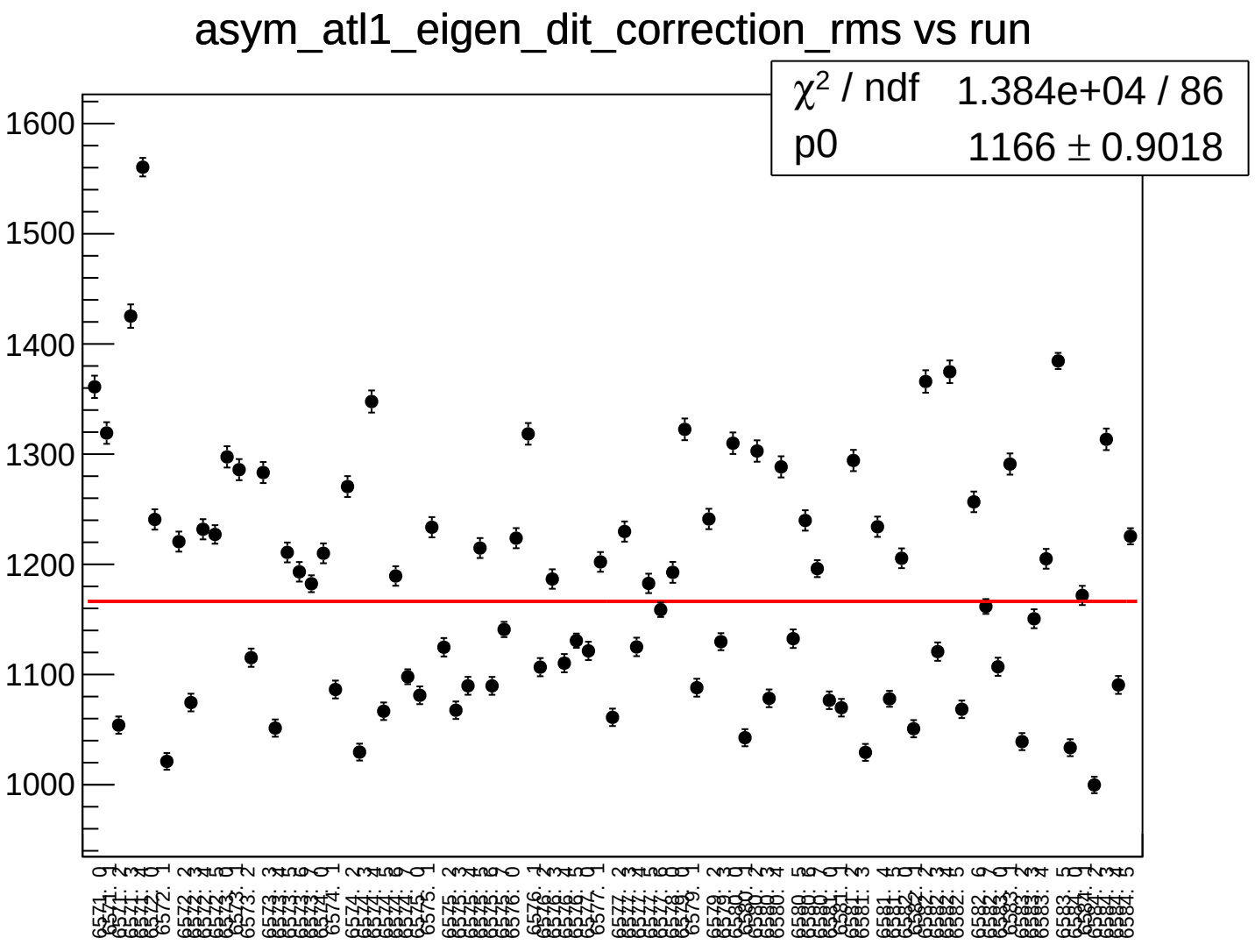

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 89.55 / 86
p0 −801.8 ± 2605
100
50
0
−50
−100
pull
Entries 87
Mean 162
Std Dev 0
3
2
1
0
−1
−2
−3

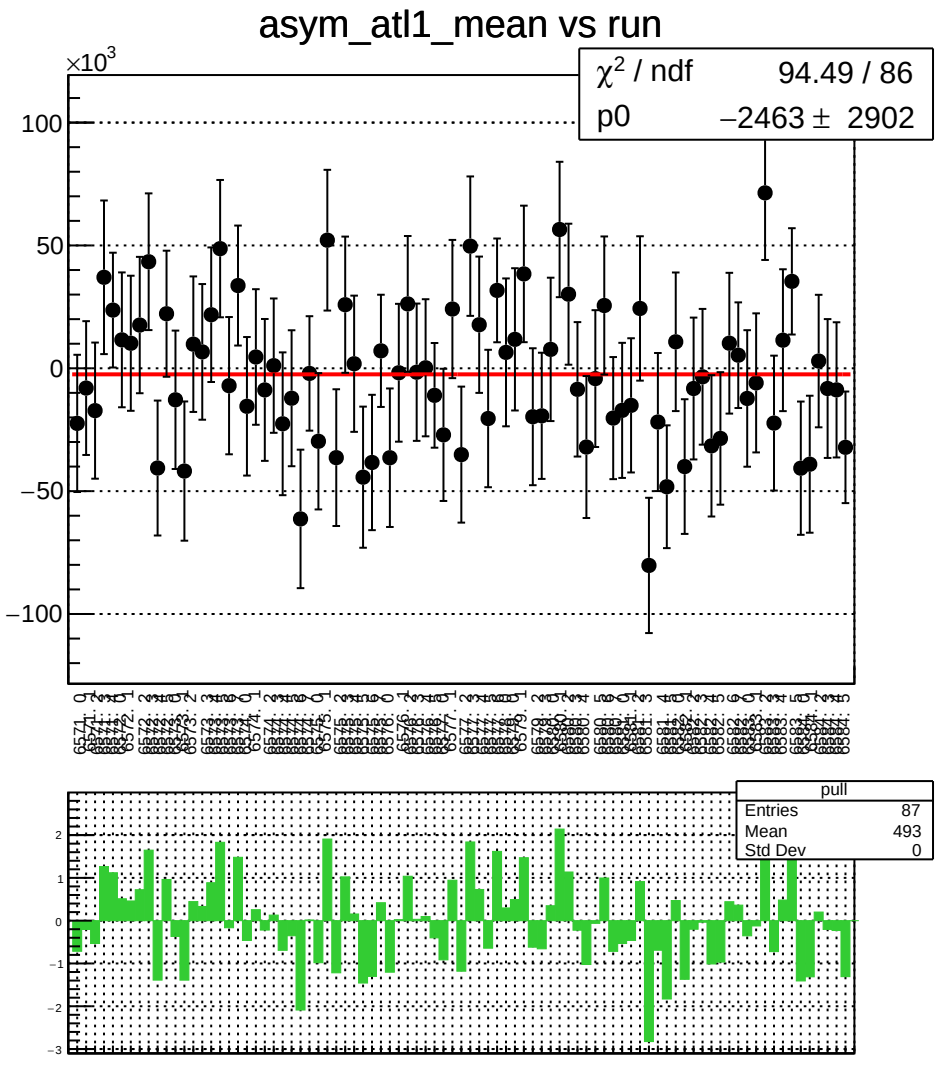

pull1D
Entries 87
Mean −0.01248
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

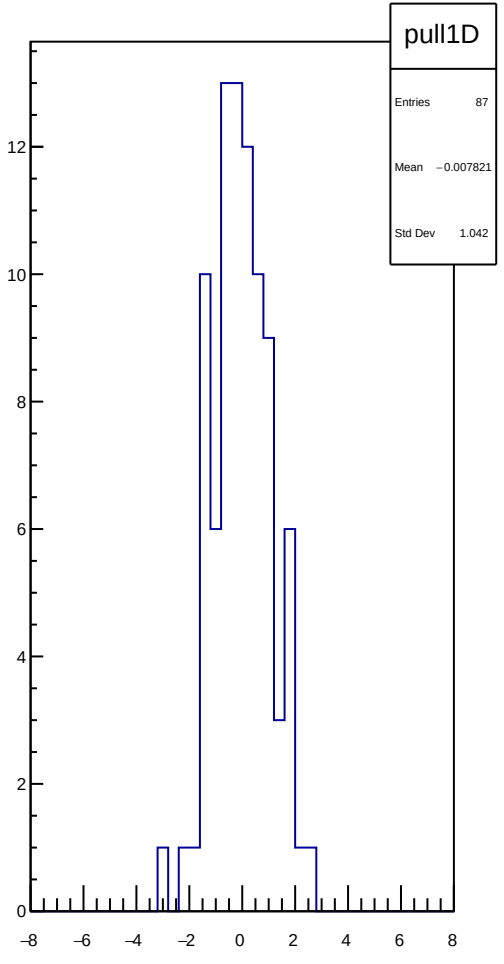

eigen_dit_asym_atl1_rms vs run
χ² / ndf 171.2 / 86
p0 2392 ± 1.842
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

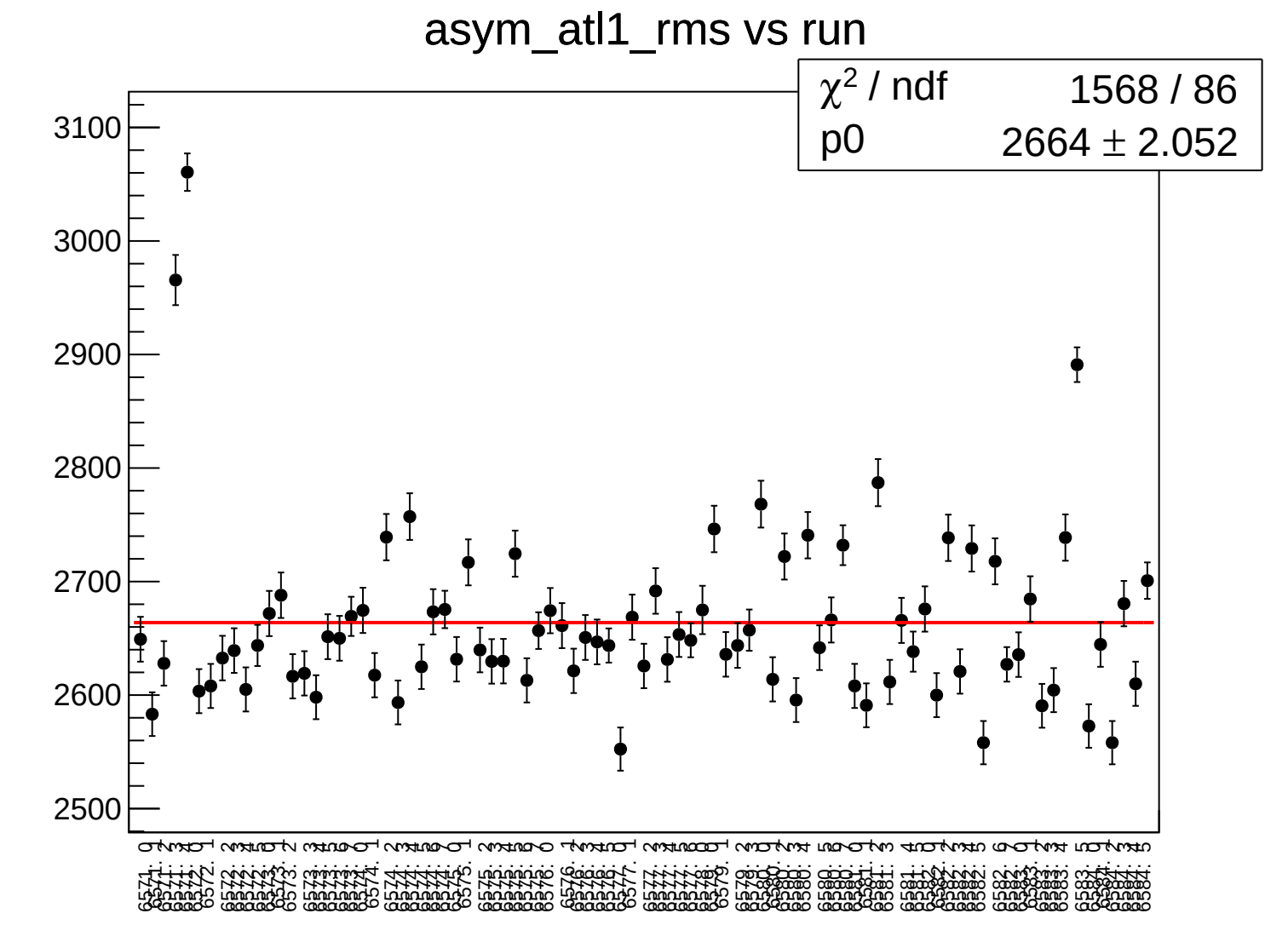

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 102.5 / 86
p0 1667 ± 1275
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −677.9
Std Dev 0
2
1
0
−1
−2
−3

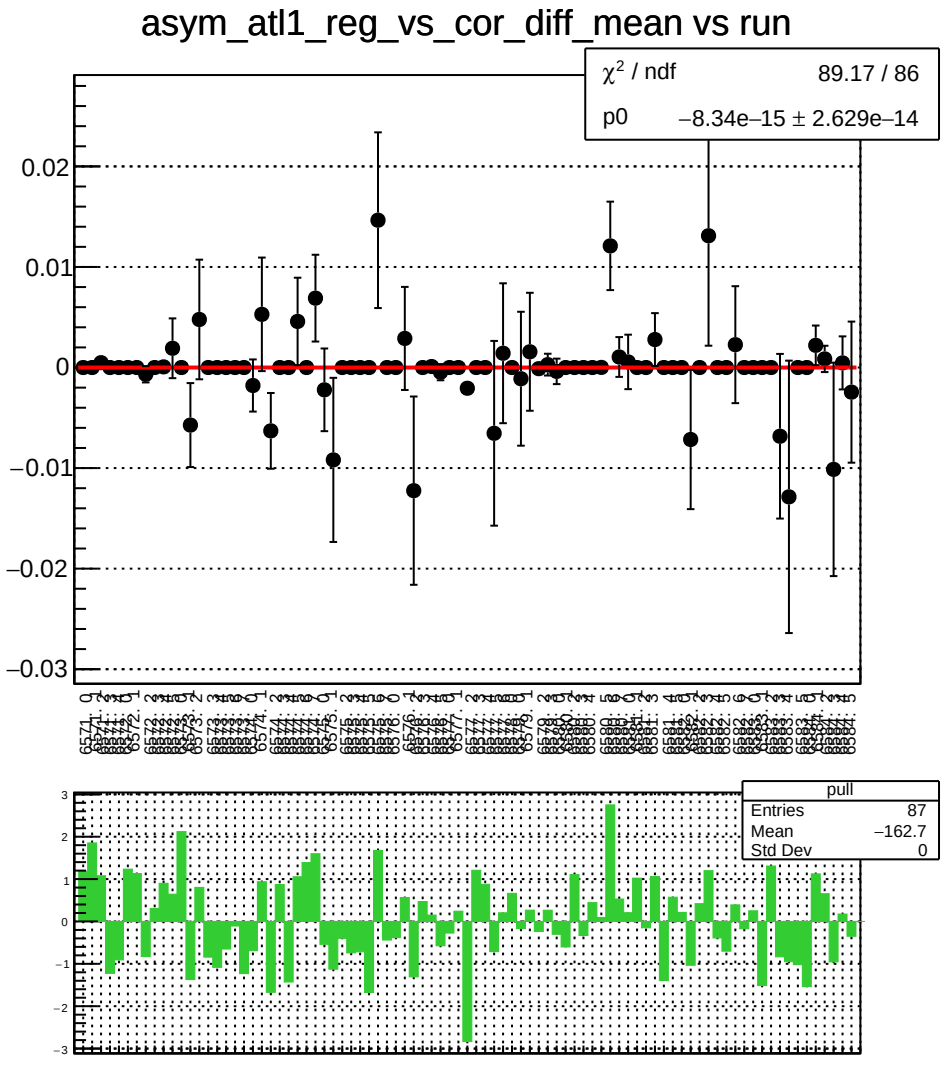

pull1D
Entries 87
Mean −0.006272
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

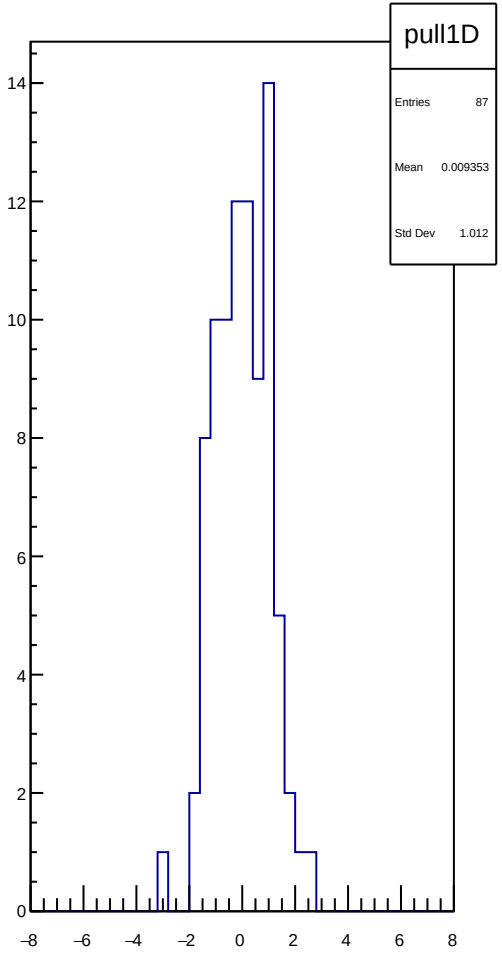

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.384e+04 / 86
p0 1166 ± 0.9018
1600
1500
1400
1300
1200
1100
1000

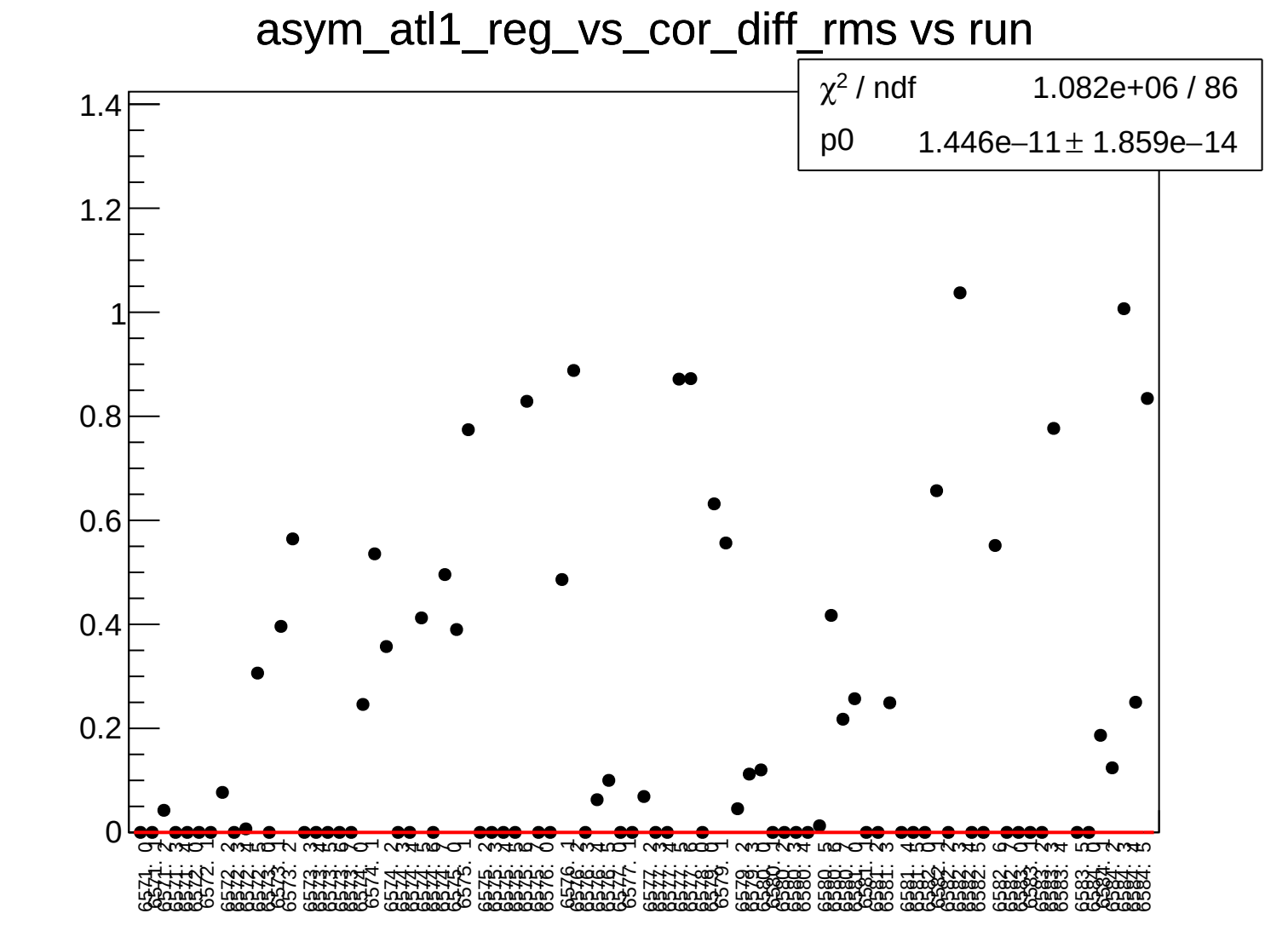

asym_atl1_mean vs run
×10^3
χ² / ndf 94.49 / 86
p0 −2463 ± 2902
100
50
0
−50
−100
pull
Entries 87
Mean 493
Std Dev 0
2
1
0
−1
−2
−3

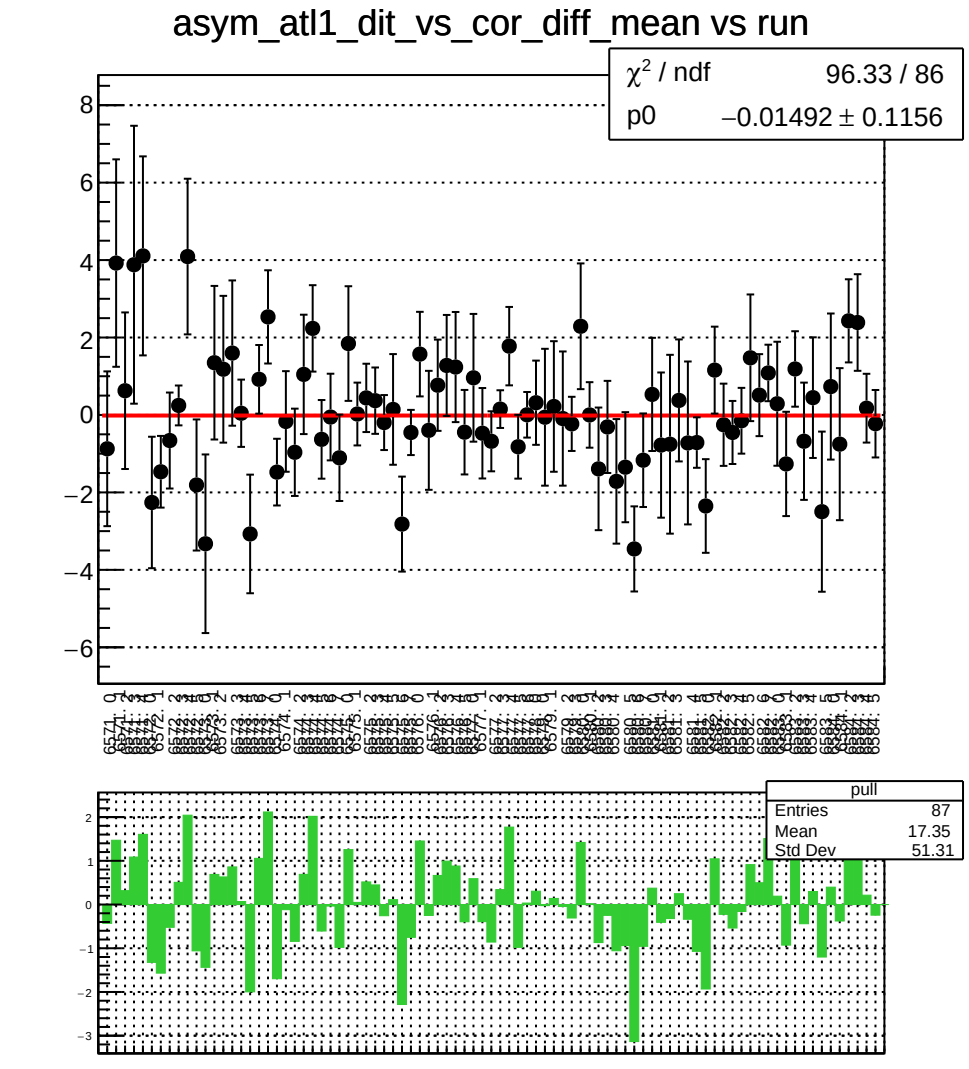

pull1D
Entries 87
Mean −0.007821
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

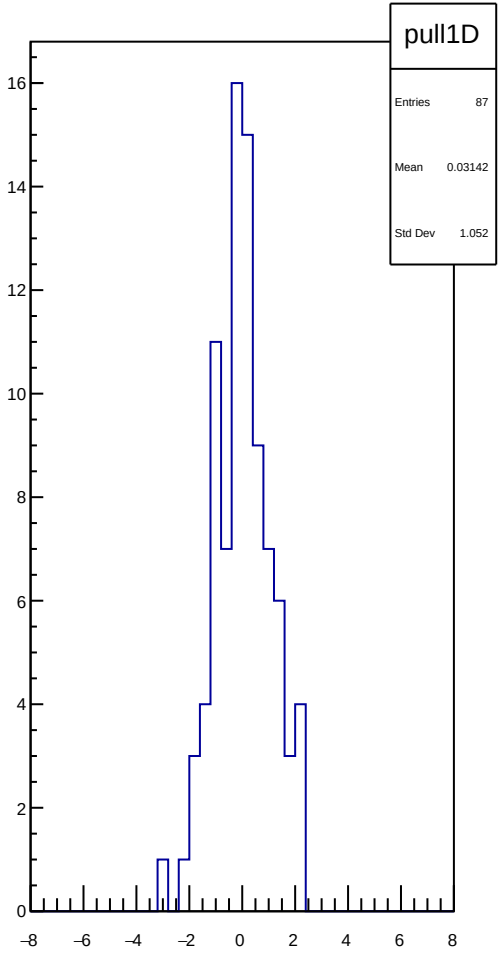

asym_atl1_rms vs run
χ^2 / ndf 1568 / 86
p0 2664 ± 2.052
3100
3000
2900
2800
2700
2600
2500

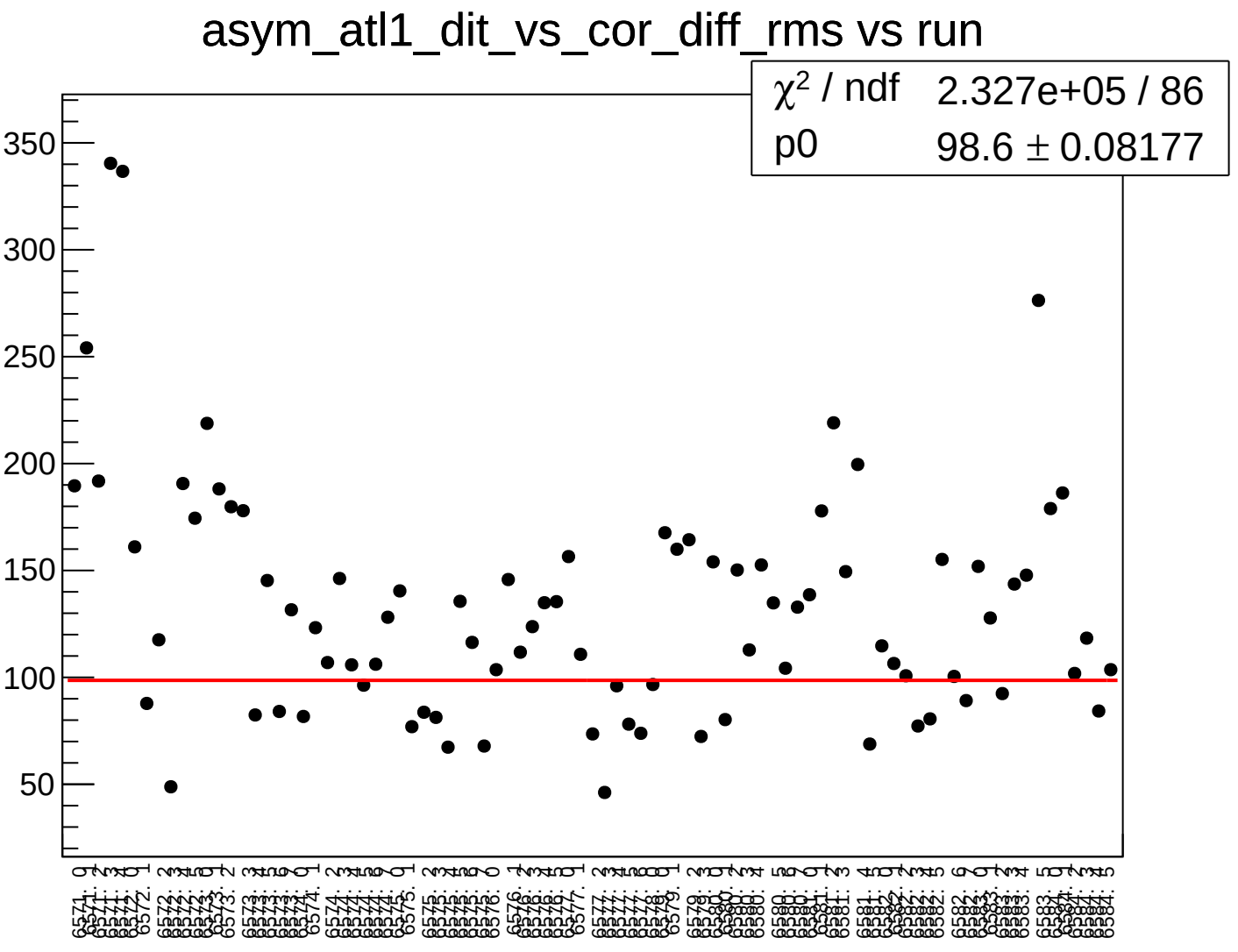

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 89.17 / 86
p0 −8.34e−15 ± 2.629e−14
pull
Entries 87
Mean −162.7
Std Dev 0

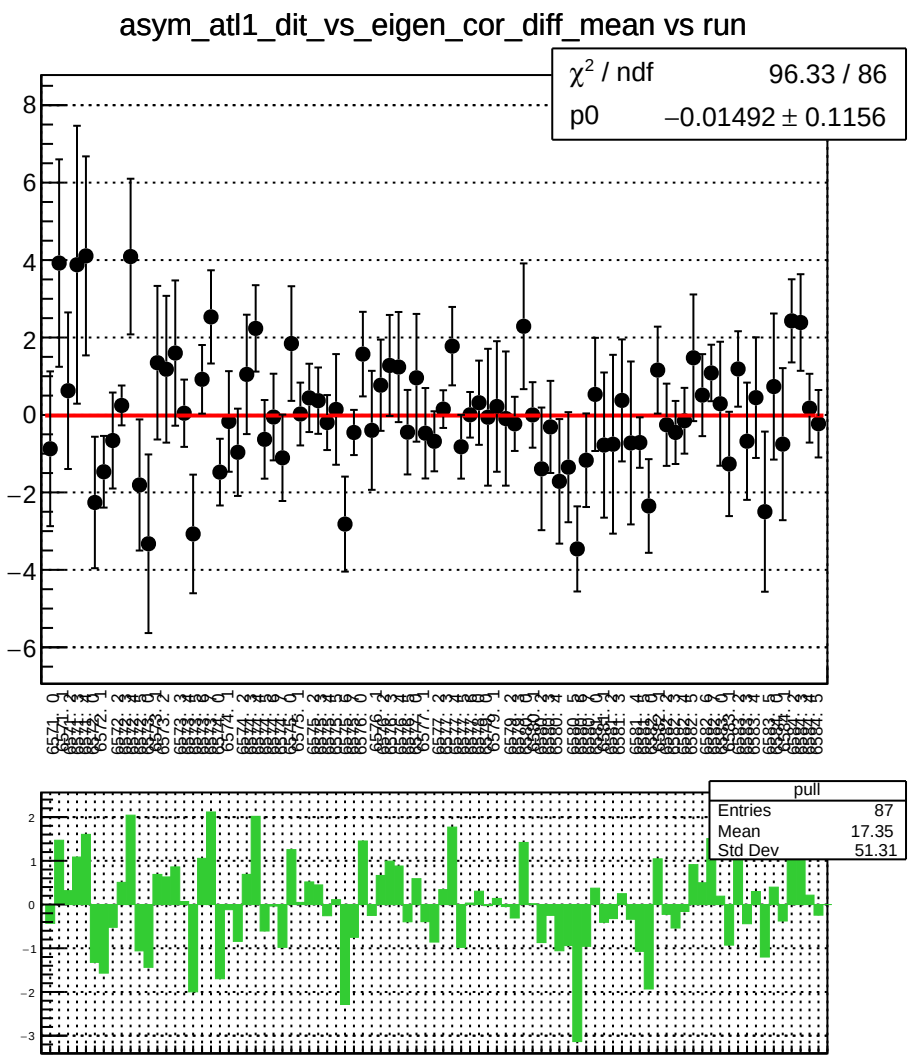

pull1D
Entries 87
Mean 0.009353
Std Dev 1.012

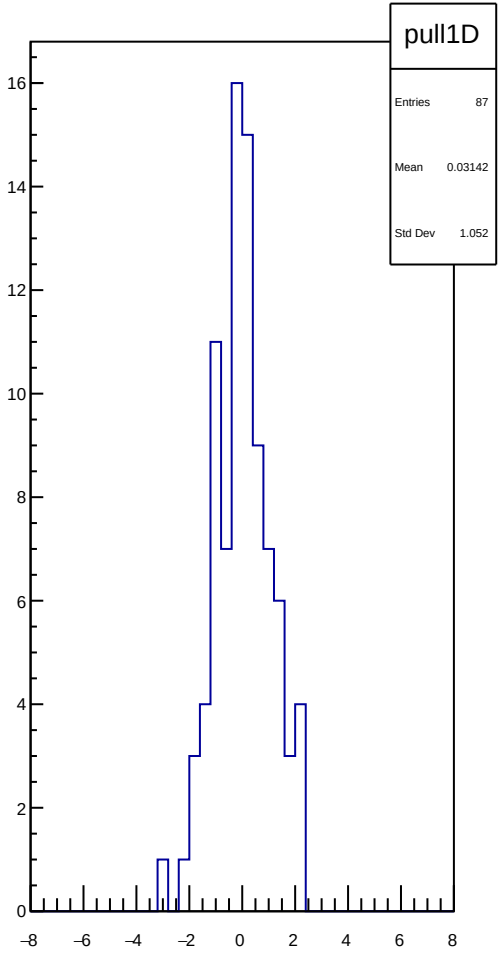

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.082e+06 / 86
p0 1.446e−11 ± 1.859e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

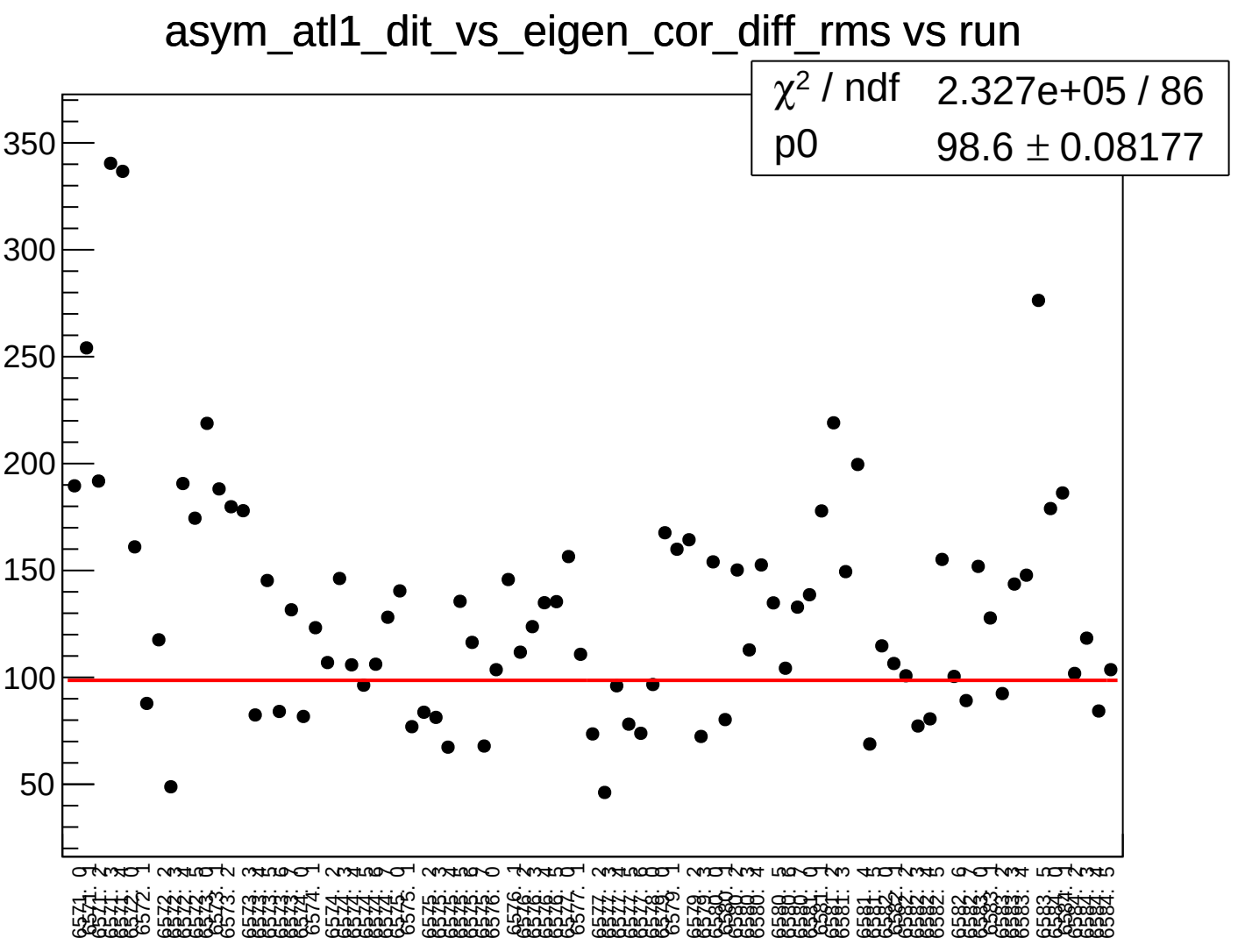

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 96.33 / 86
p0 −0.01492 ± 0.1156
pull
Entries 87
Mean 17.35
Std Dev 51.31

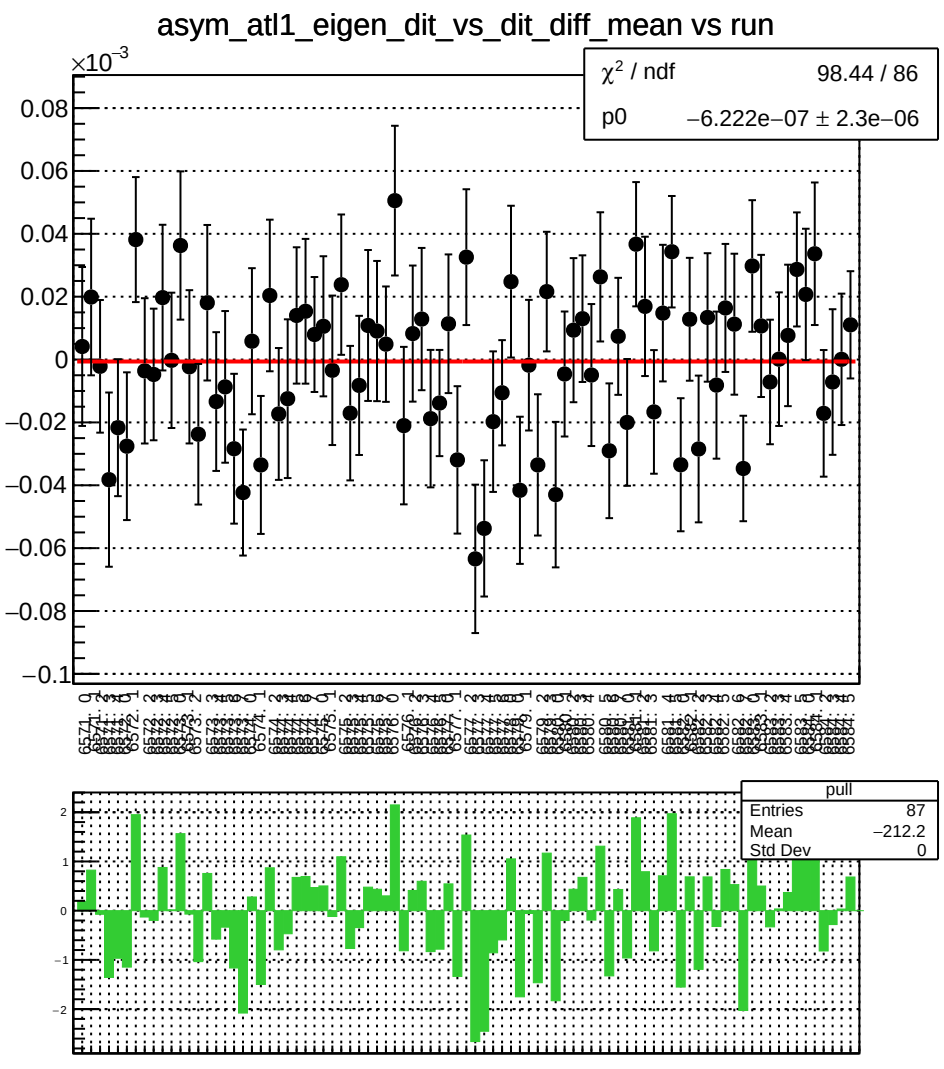

pull1D
Entries 87
Mean 0.03142
Std Dev 1.052

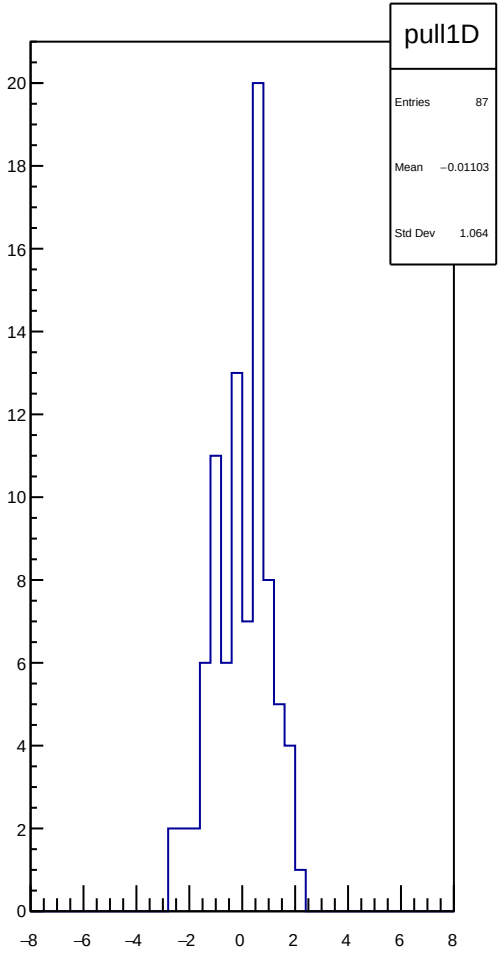

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.327e+05 / 86
p0 98.6 ± 0.08177
350
300
250
200
150
100
50

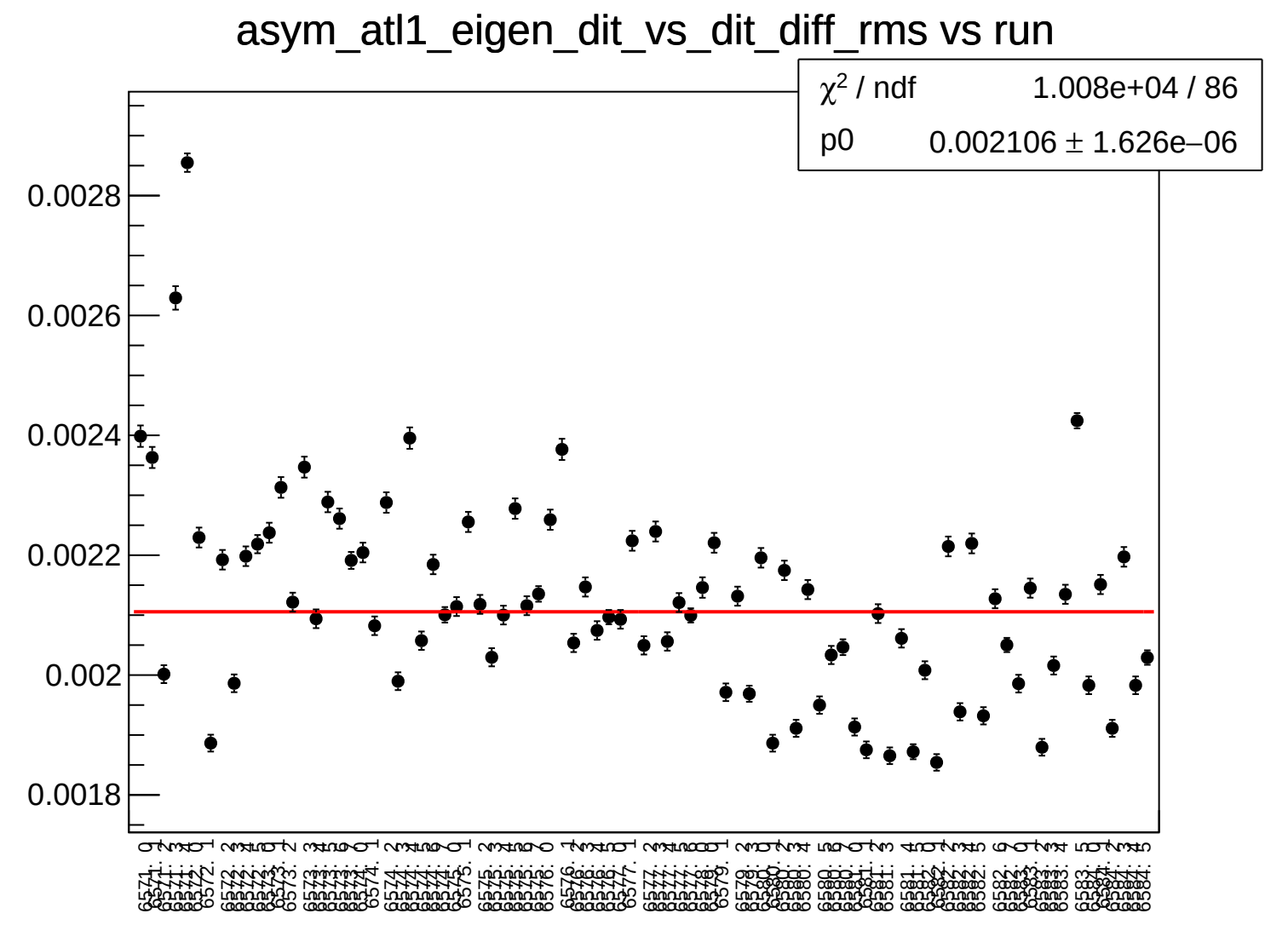

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.33 / 86
p0 −0.01492 ± 0.1156
pull
Entries 87
Mean 17.35
Std Dev 51.31

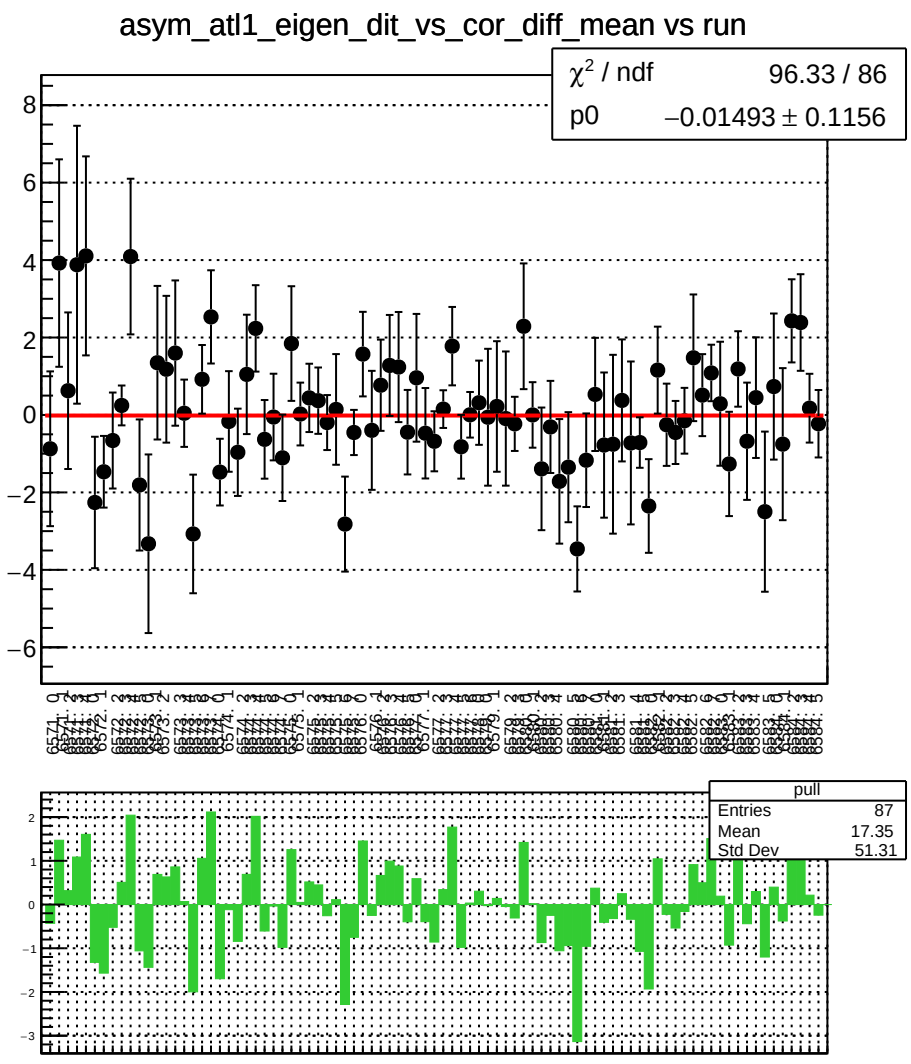

pull1D
Entries 87
Mean 0.03142
Std Dev 1.052

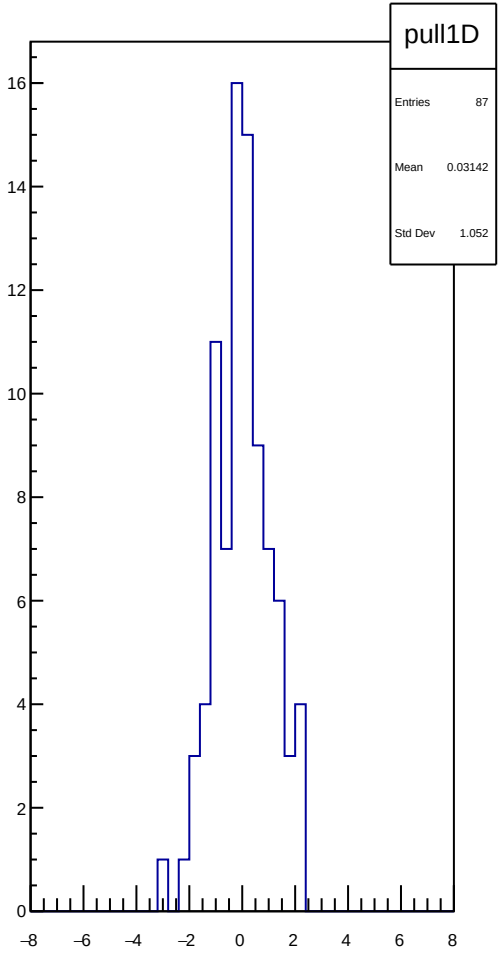

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.327e+05 / 86
p0 98.6 ± 0.08177
350
300
250
200
150
100
50

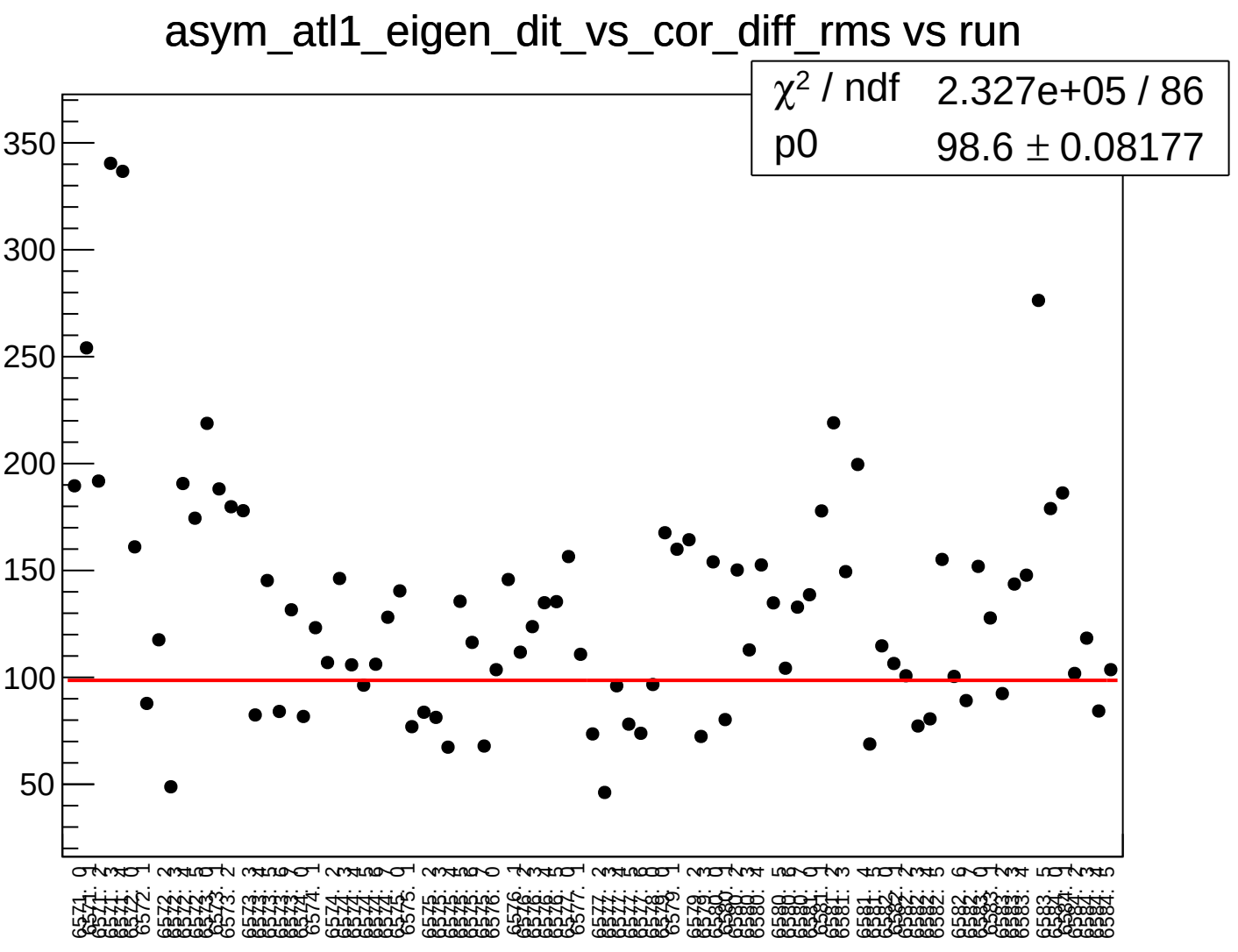

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.44 / 86
p0 −6.222e−07 ± 2.3e−06
pull
Entries 87
Mean −212.2
Std Dev 0

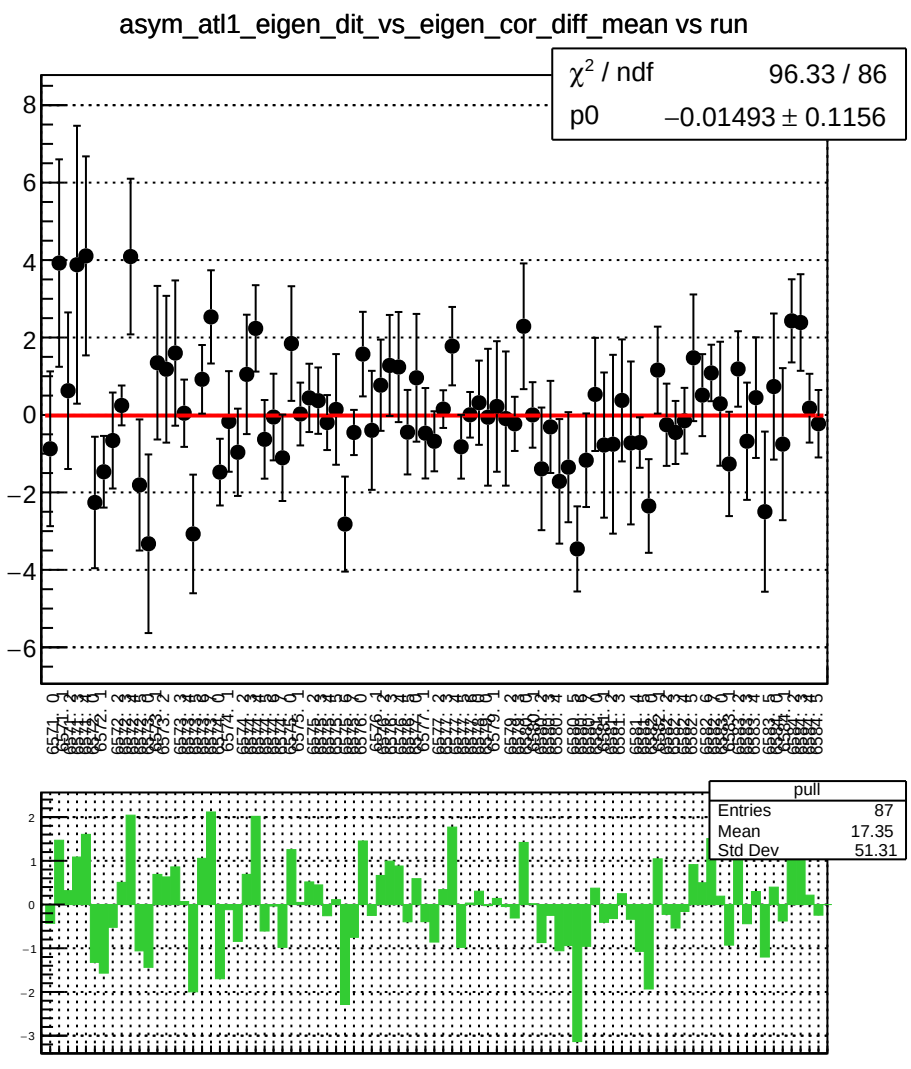

pull1D
Entries 87
Mean −0.01103
Std Dev 1.064

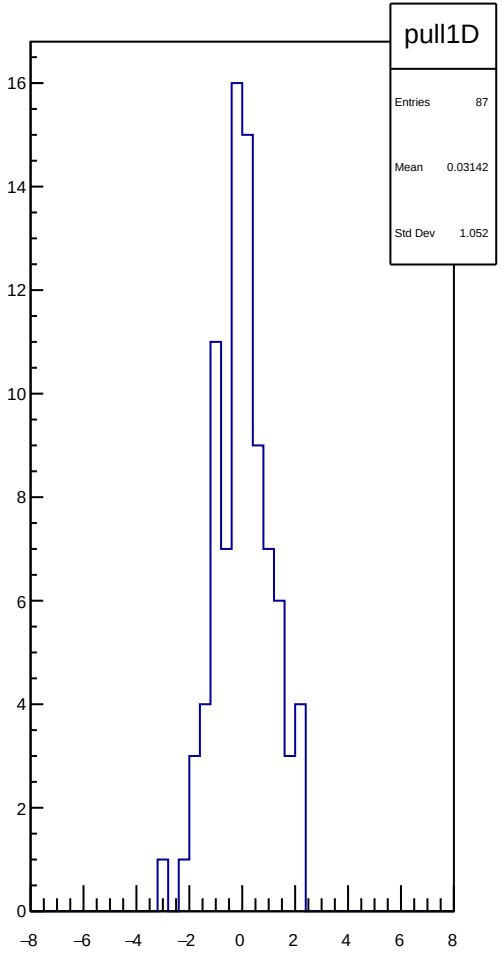

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.008e+04 / 86
p0 0.002106 ± 1.626e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

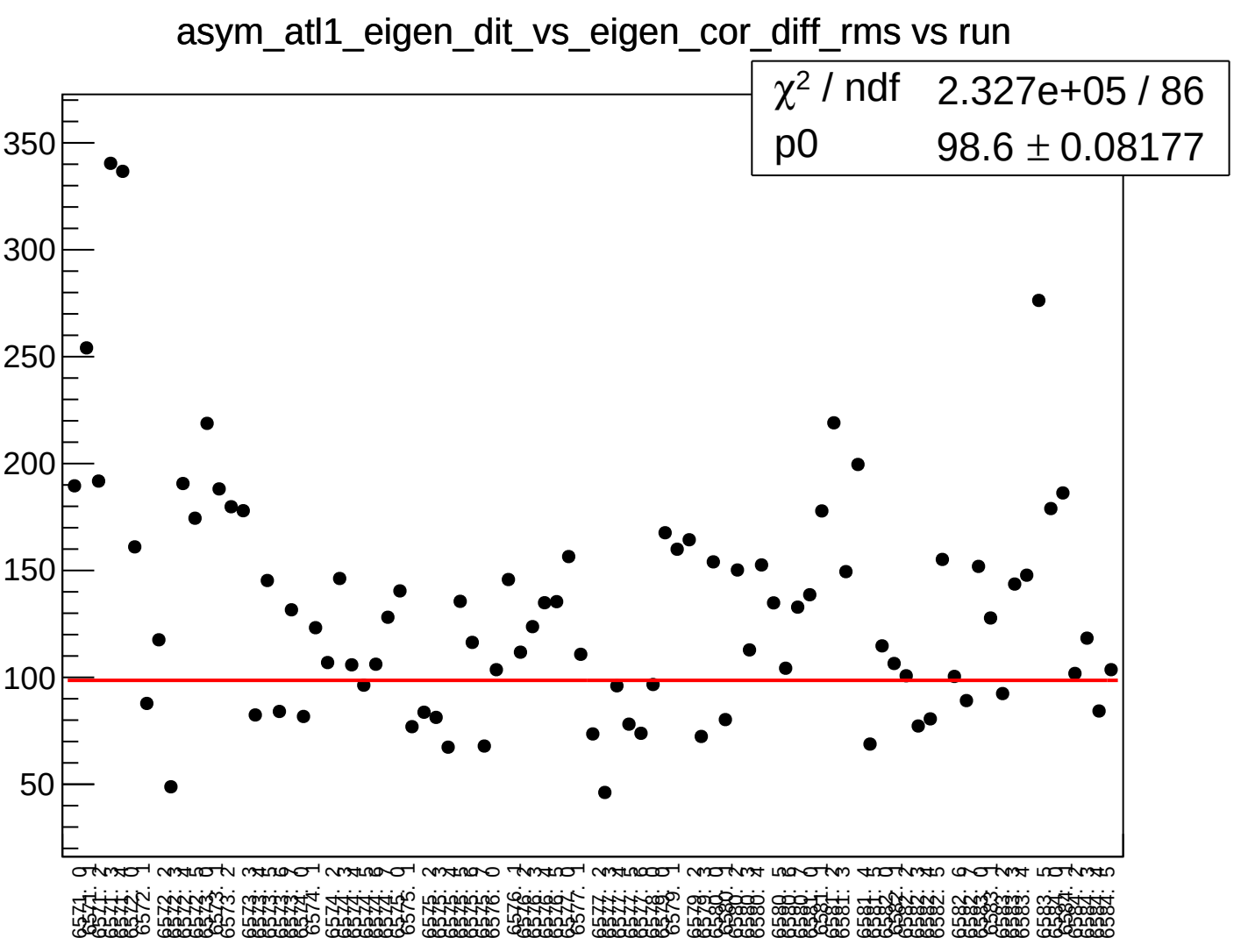

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.33 / 86
p0 −0.01493 ± 0.1156
pull
Entries 87
Mean 17.35
Std Dev 51.31

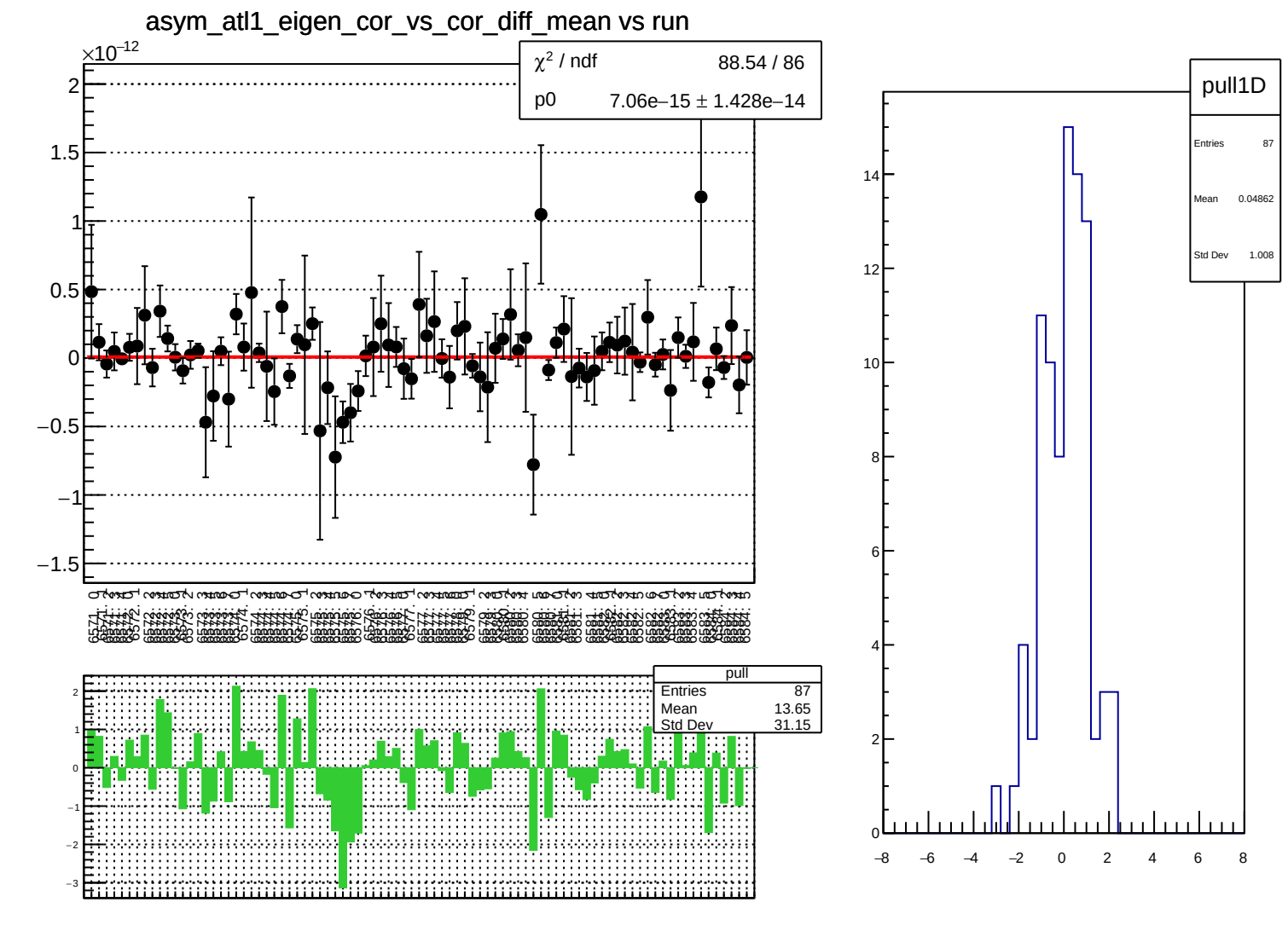

pull1D
Entries 87
Mean 0.03142
Std Dev 1.052

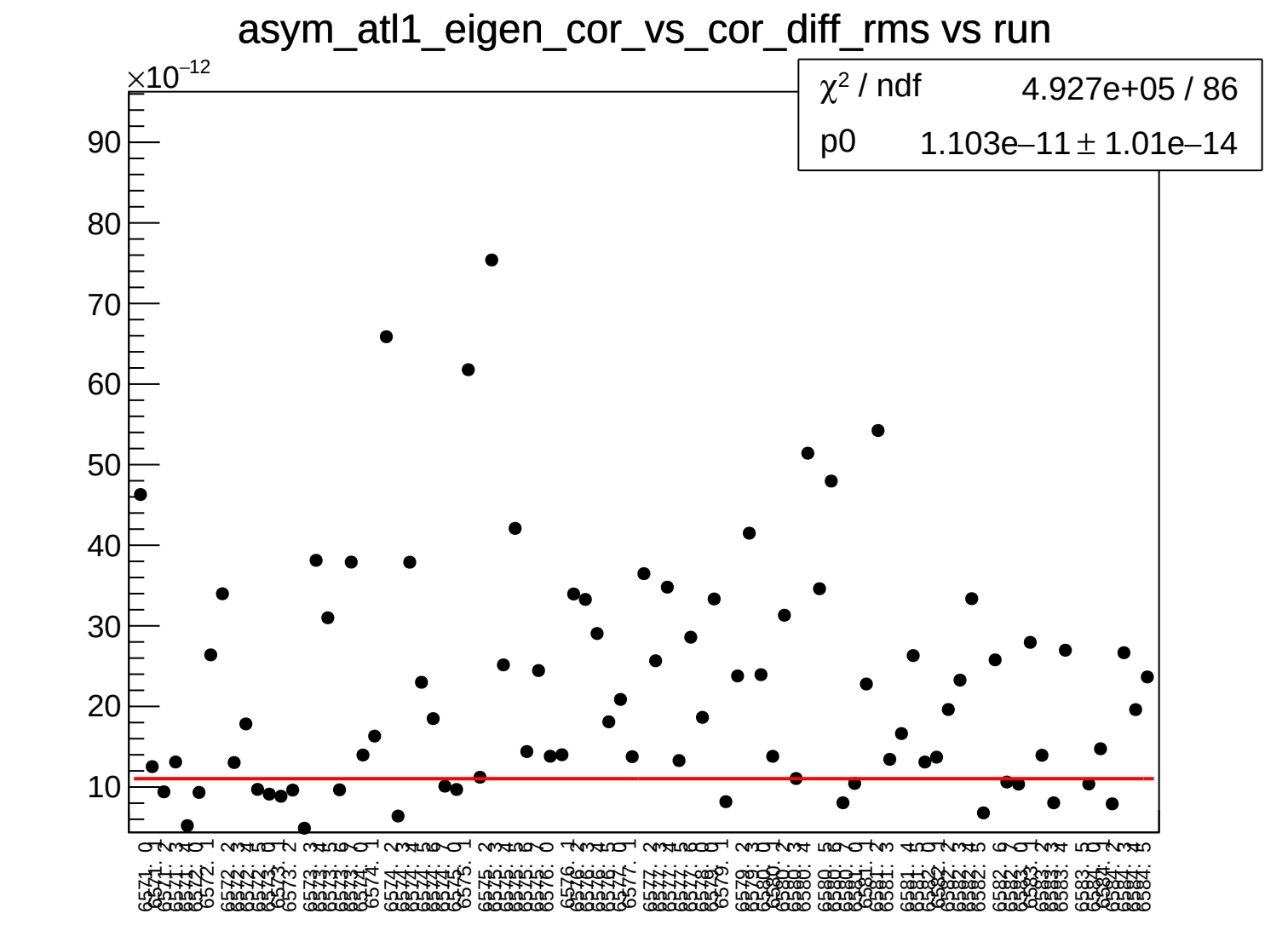

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.327e+05 / 86
p0 98.6 ± 0.08177
350
300
250
200
150
100
50

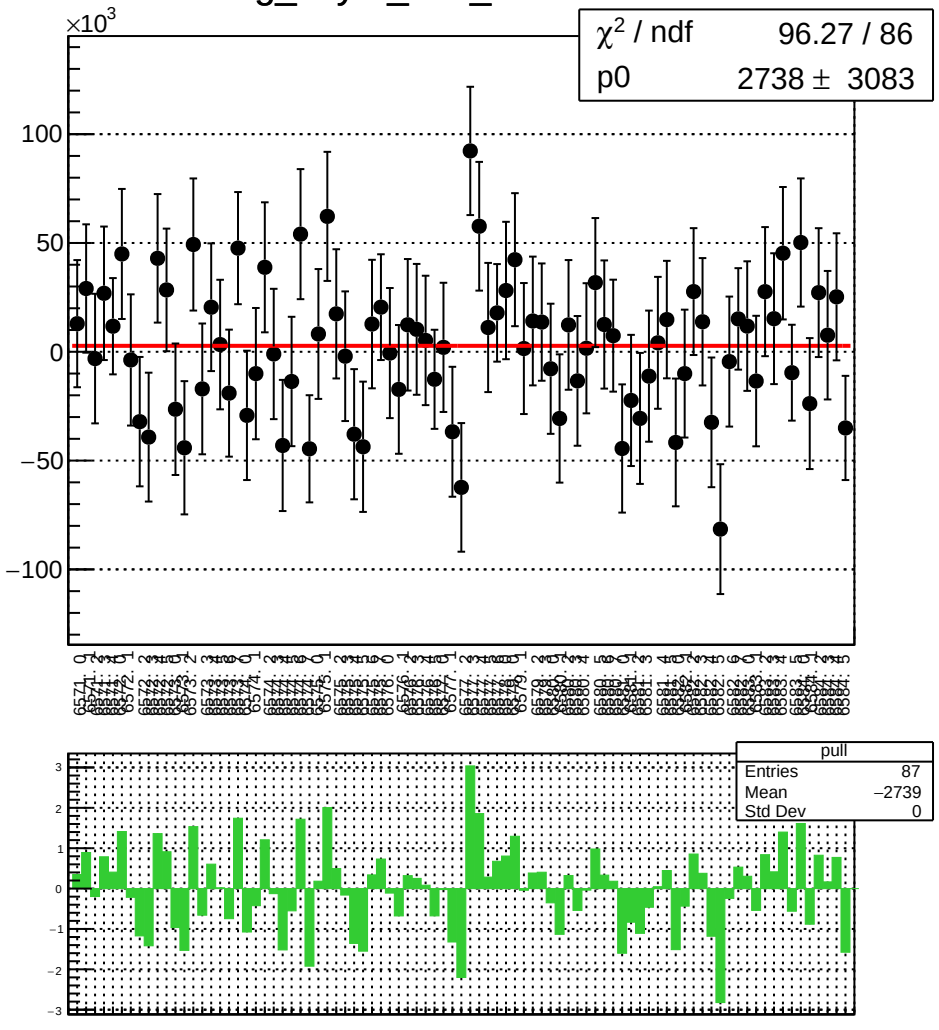

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.33 / 86
p0 −0.01493 ± 0.1156
pull
Entries 87
Mean 17.35
Std Dev 51.31

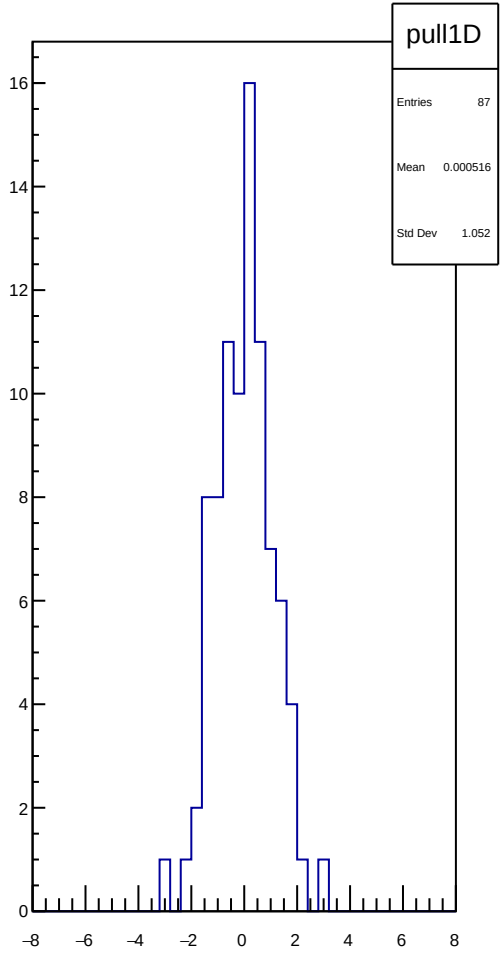

pull1D
Entries 87
Mean 0.03142
Std Dev 1.052

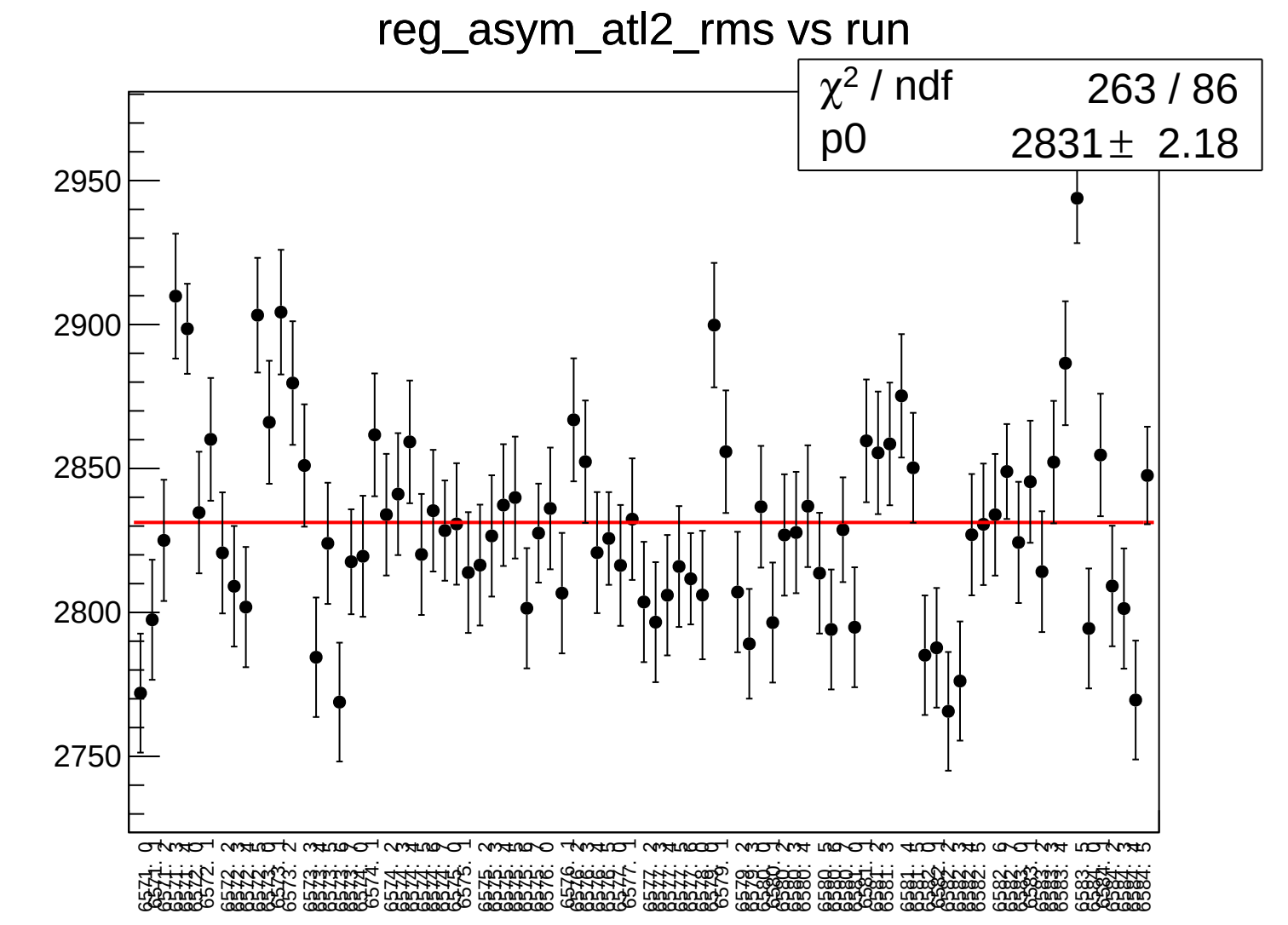

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.327e+05 / 86
p0 98.6 ± 0.08177
350
300
250
200
150
100
50

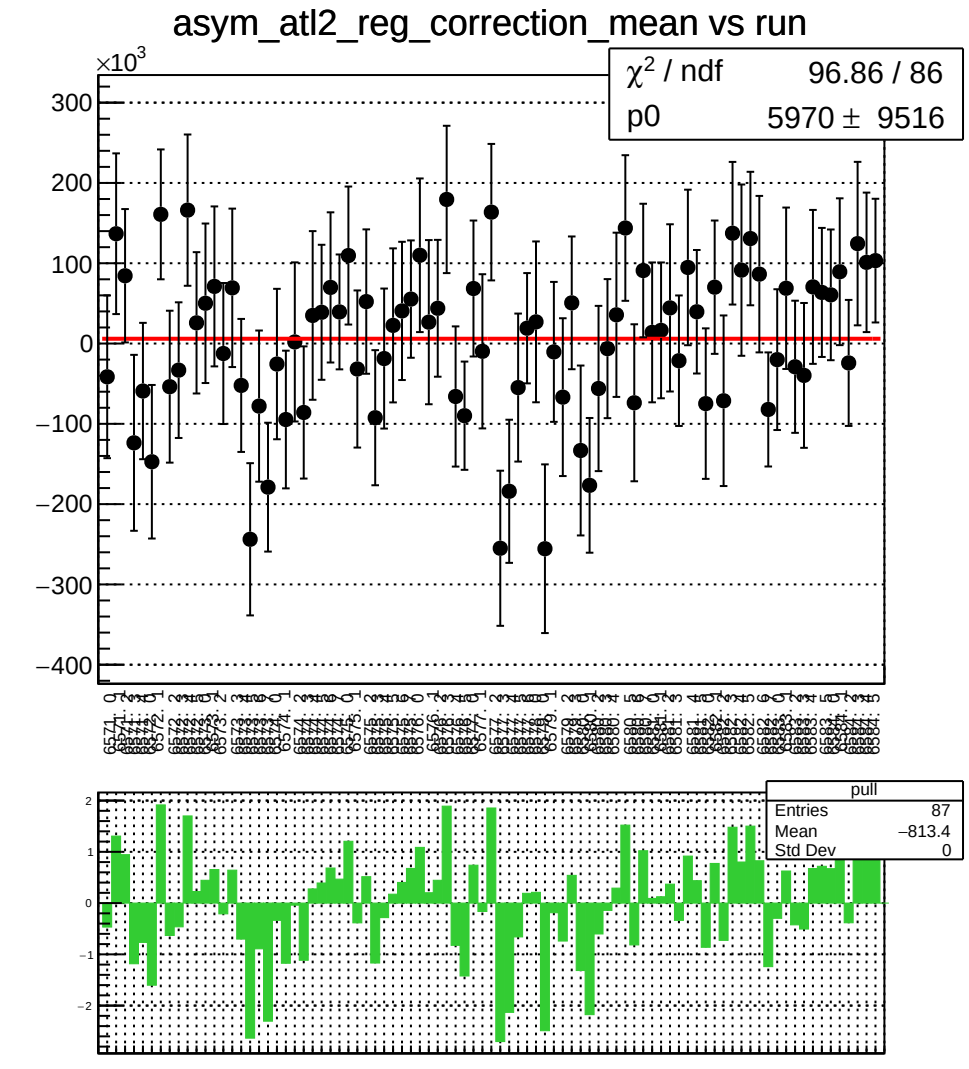

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 88.54 / 86
p0 7.06e−15 ± 1.428e−14
pull
Entries 87
Mean 13.65
Std Dev 31.15
pull1D
Entries 87
Mean 0.04862
Std Dev 1.008

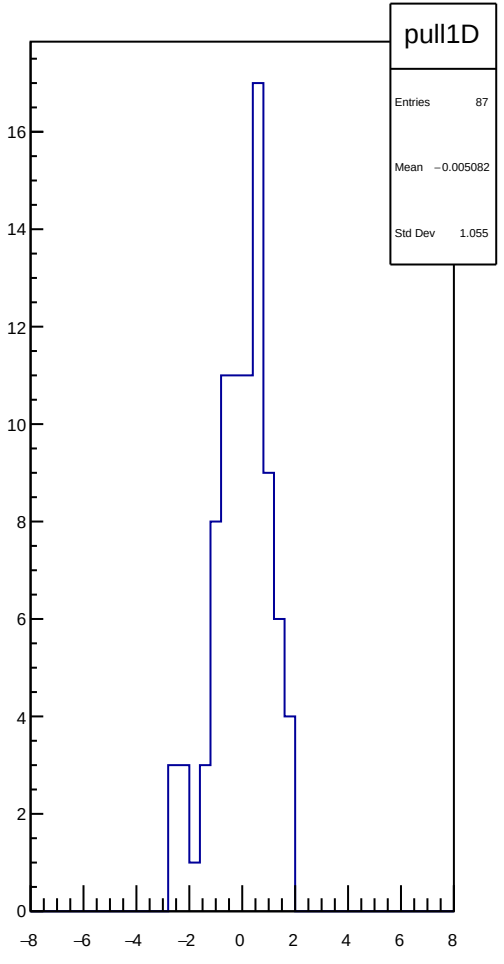

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.927e+05 / 86
p0 1.103e−11 ± 1.01e−14
90
80
70
60
50
40
30
20
10

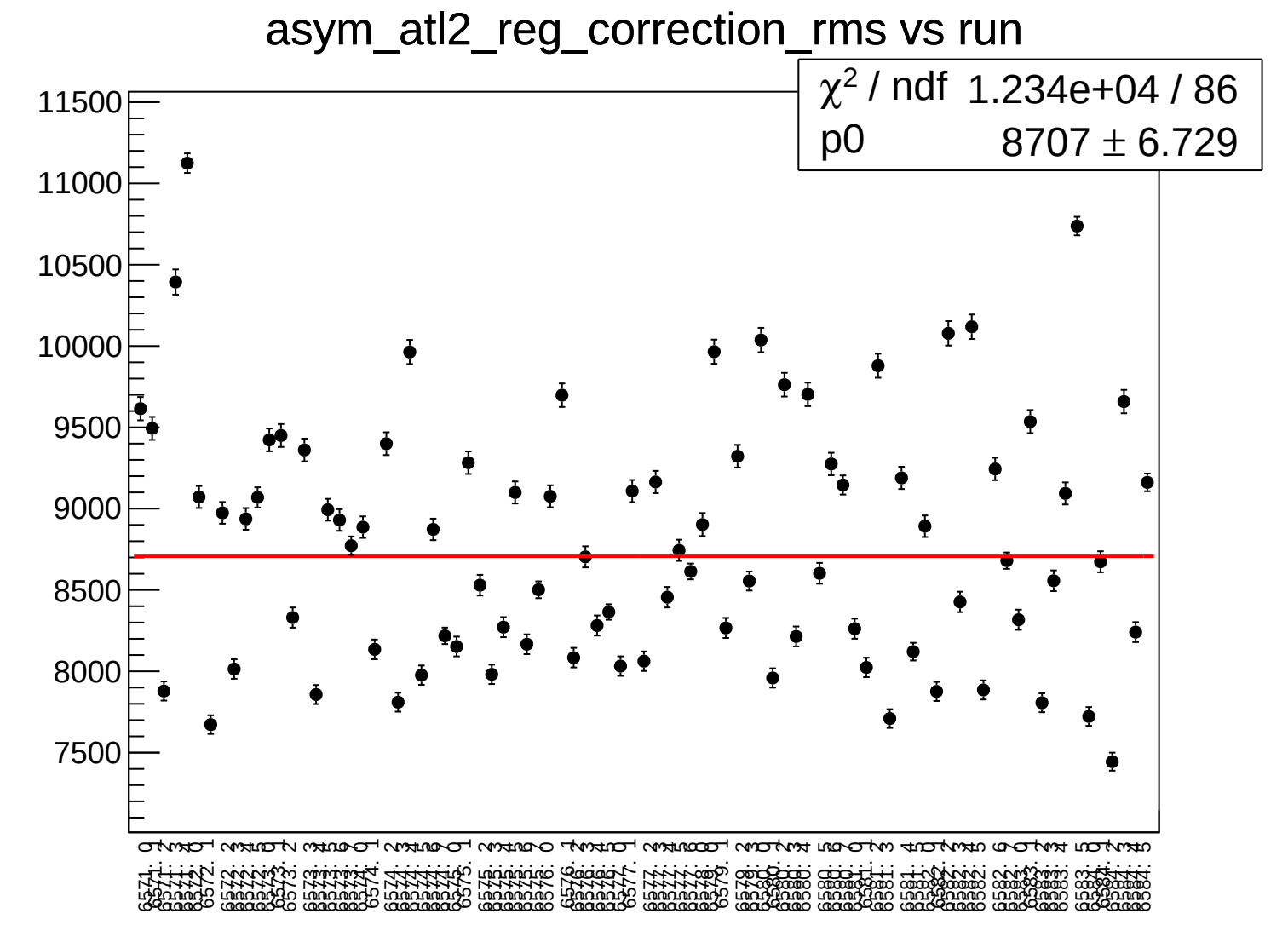

reg_asym_atl2_mean vs run
χ² / ndf 96.27 / 86
p0 2738 ± 3083
×10³
100
50
0
−50
−100
pull
Entries 87
Mean −2739
Std Dev 0
3
2
1
0
−1
−2
−3

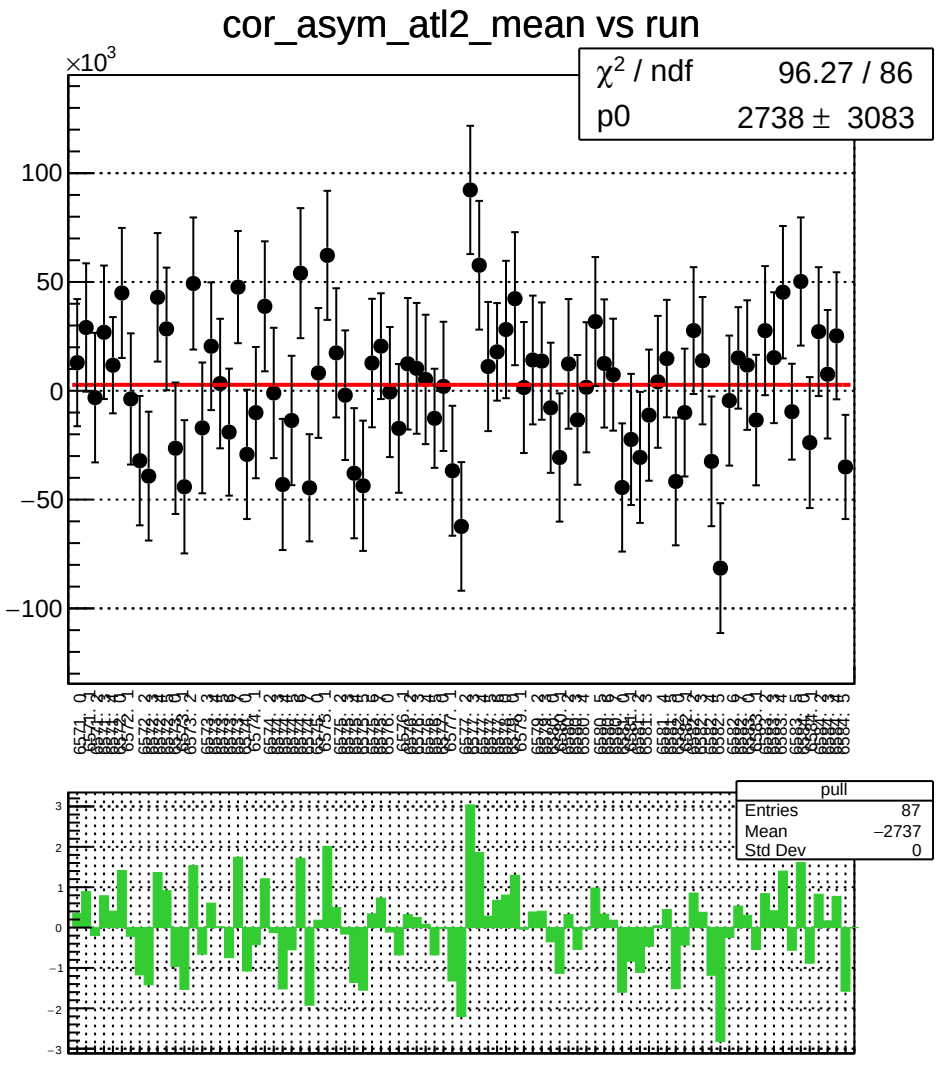

pull1D
Entries 87
Mean 0.000516
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

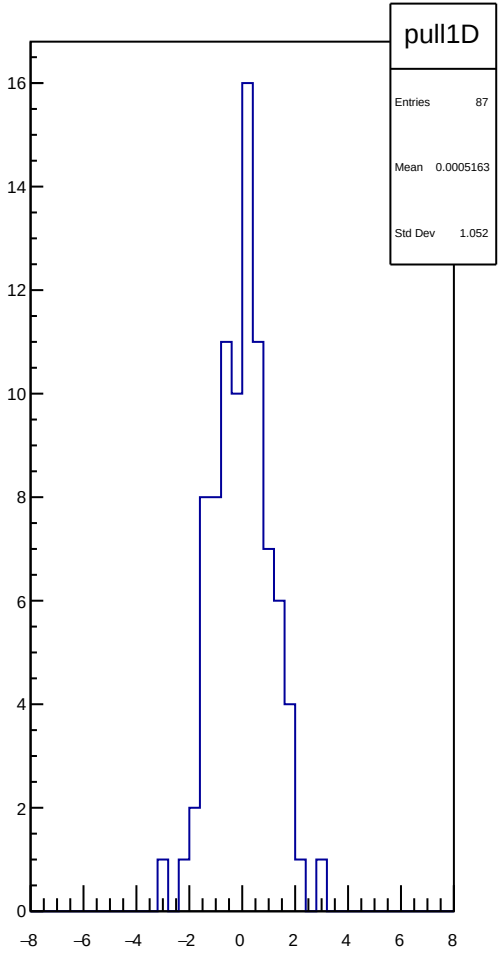

reg_asym_atl2_rms vs run
χ² / ndf 263 / 86
p0 2831 ± 2.18
2950
2900
2850
2800
2750

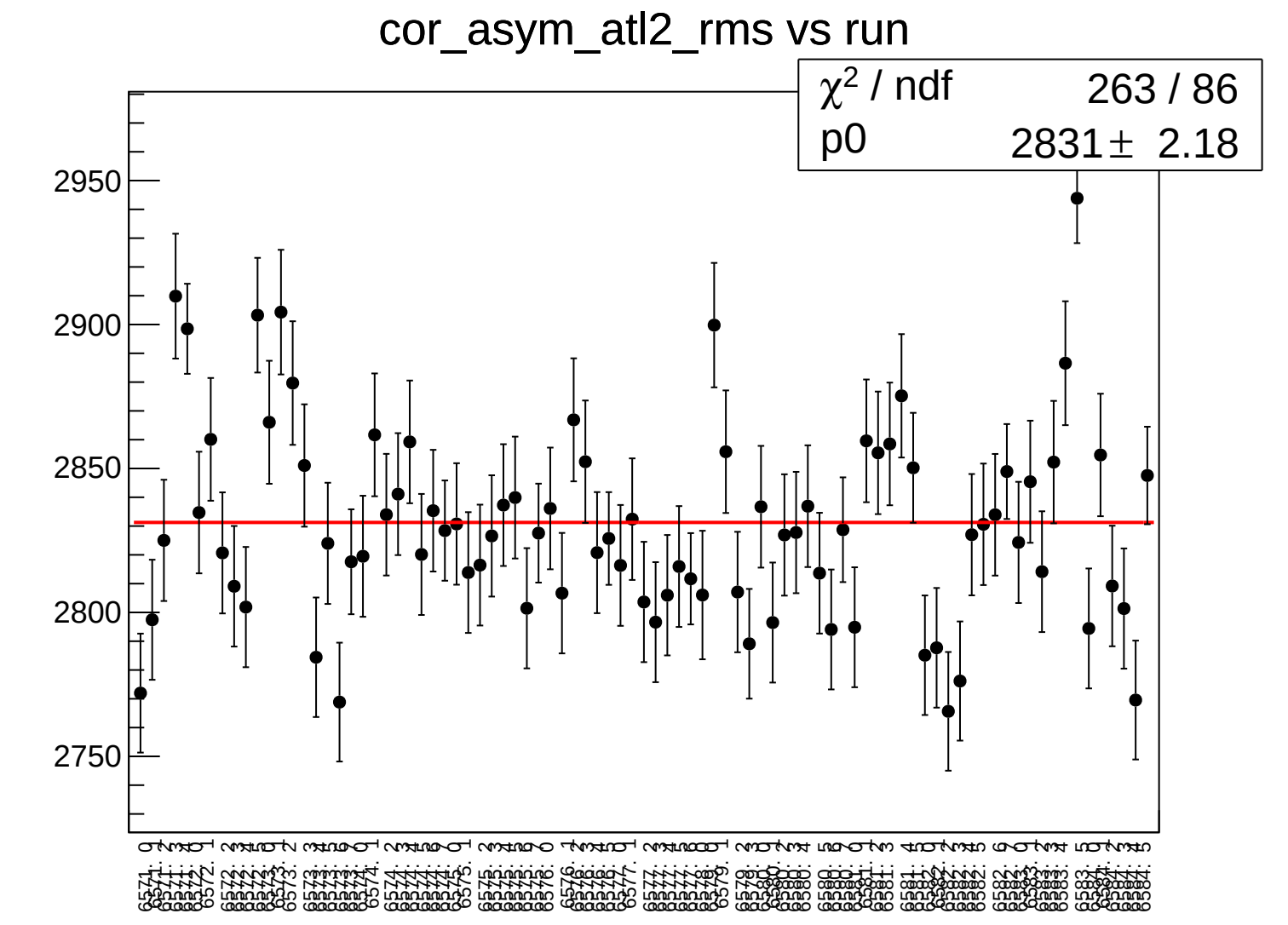

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 96.86 / 86
p0 5970 ± 9516
pull
Entries 87
Mean −813.4
Std Dev 0

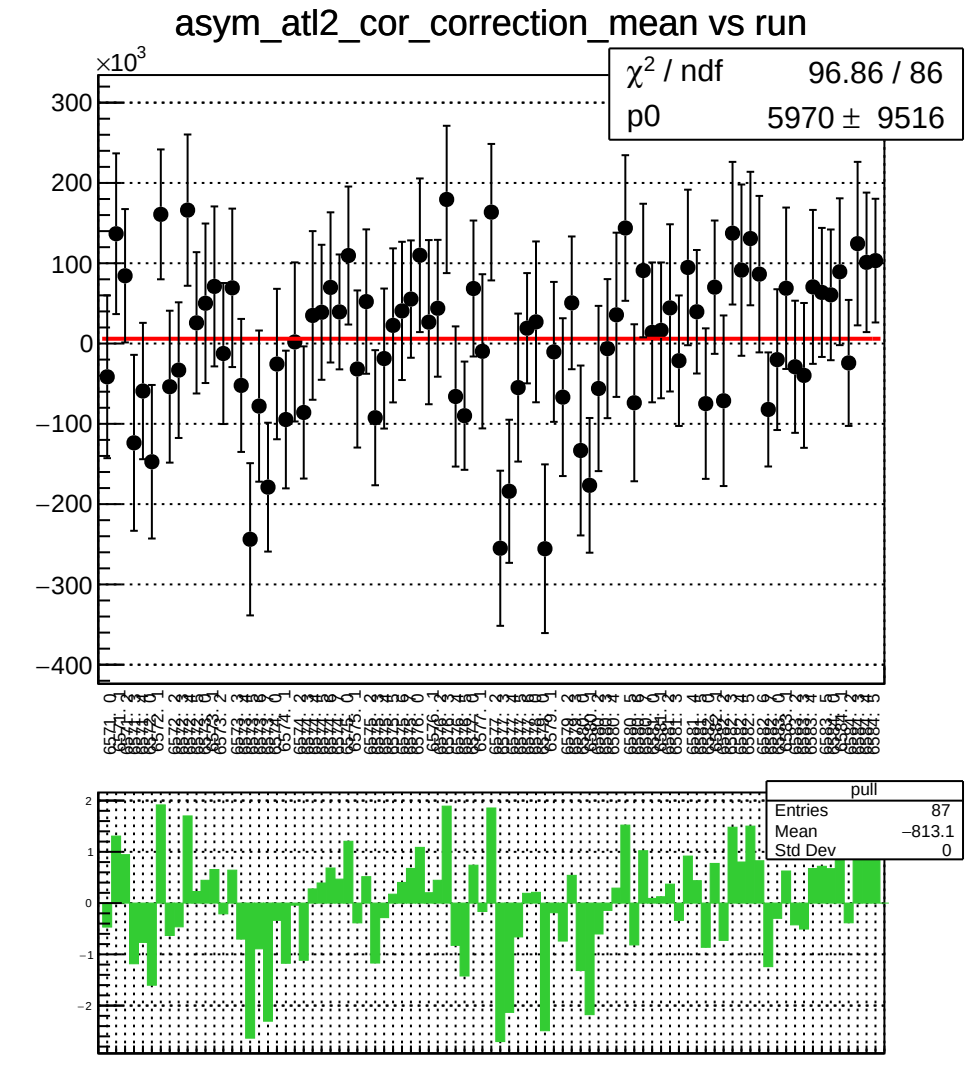

pull1D
Entries 87
Mean −0.005082
Std Dev 1.055

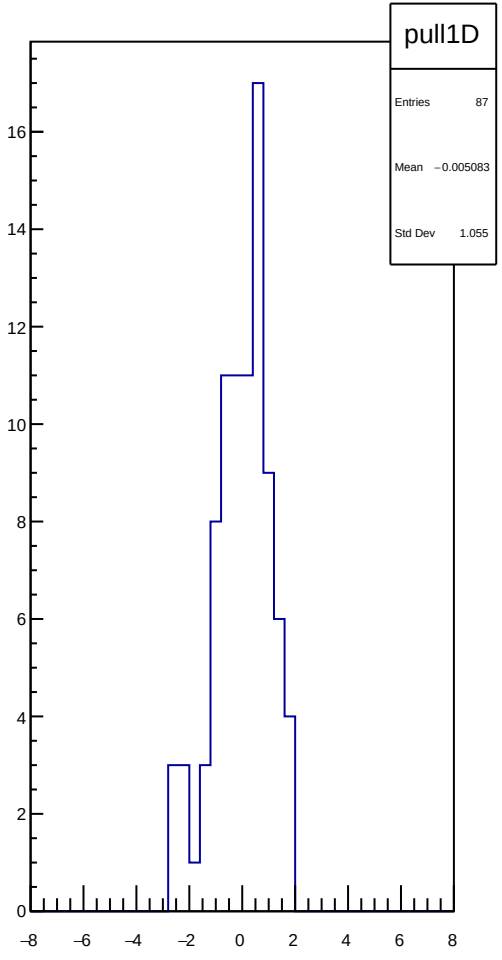

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.234e+04 / 86
p0 8707 ± 6.729
11500
11000
10500
10000
9500
9000
8500
8000
7500

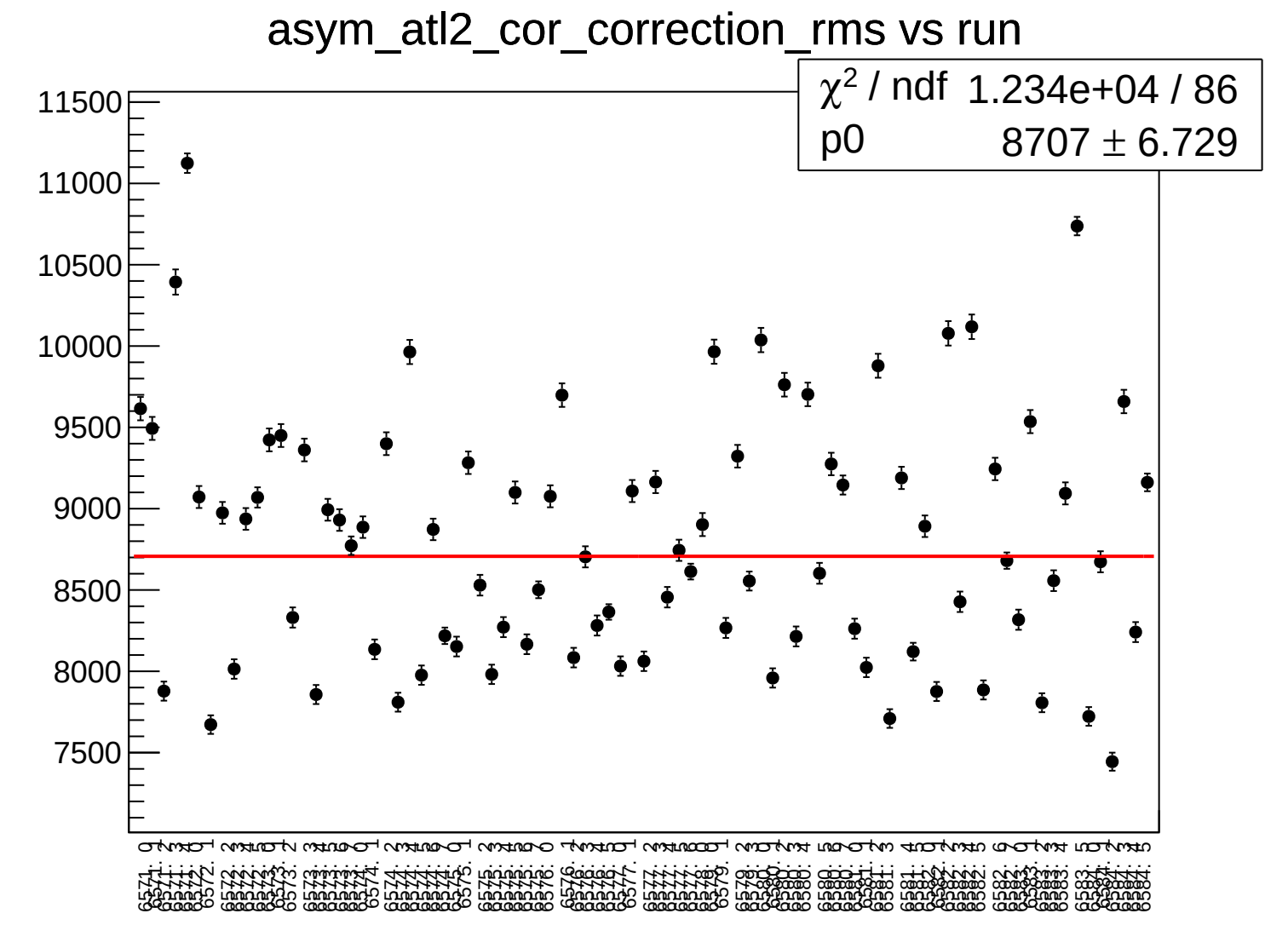

cor_asym_atl2_mean vs run
χ² / ndf 96.27 / 86
p0 2738 ± 3083
×10³
pull
Entries 87
Mean −2737
Std Dev 0

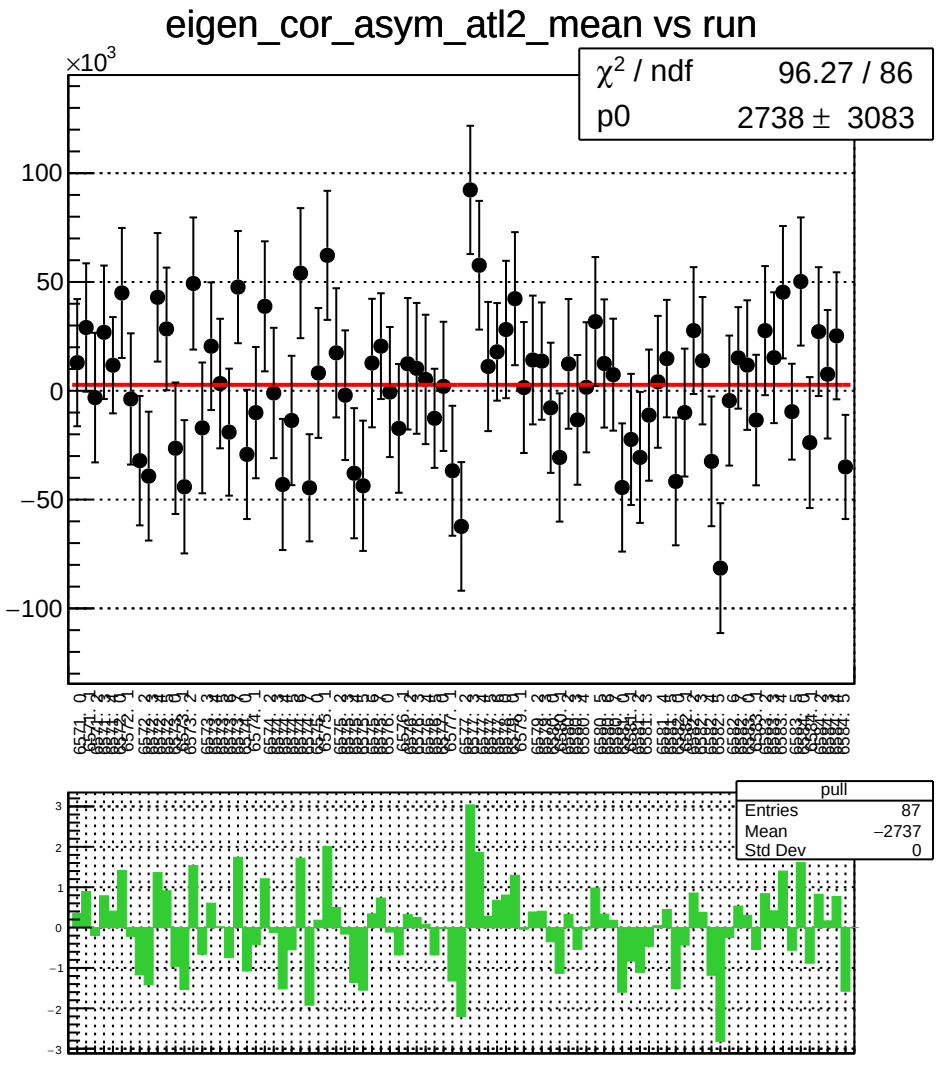

pull1D
Entries 87
Mean 0.0005163
Std Dev 1.052

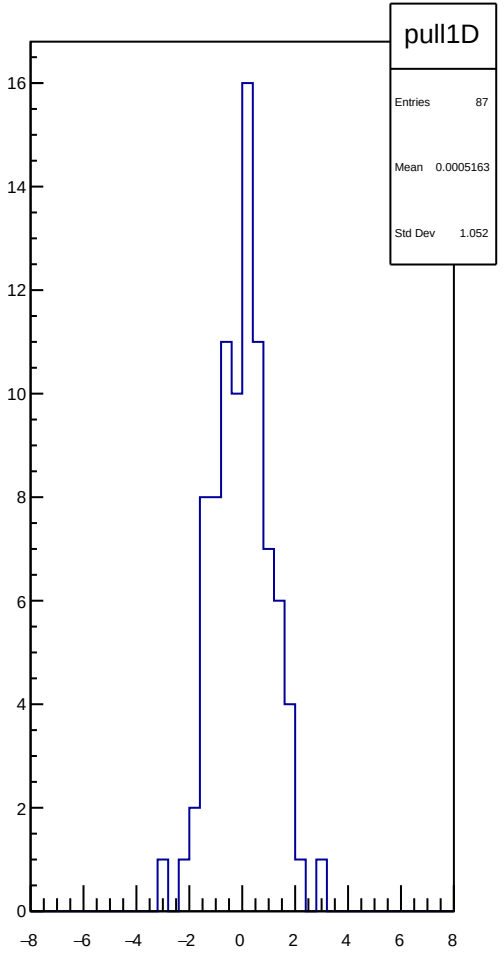

cor_asym_atl2_rms vs run
χ² / ndf 263 / 86
p0 2831 ± 2.18
2950
2900
2850
2800
2750

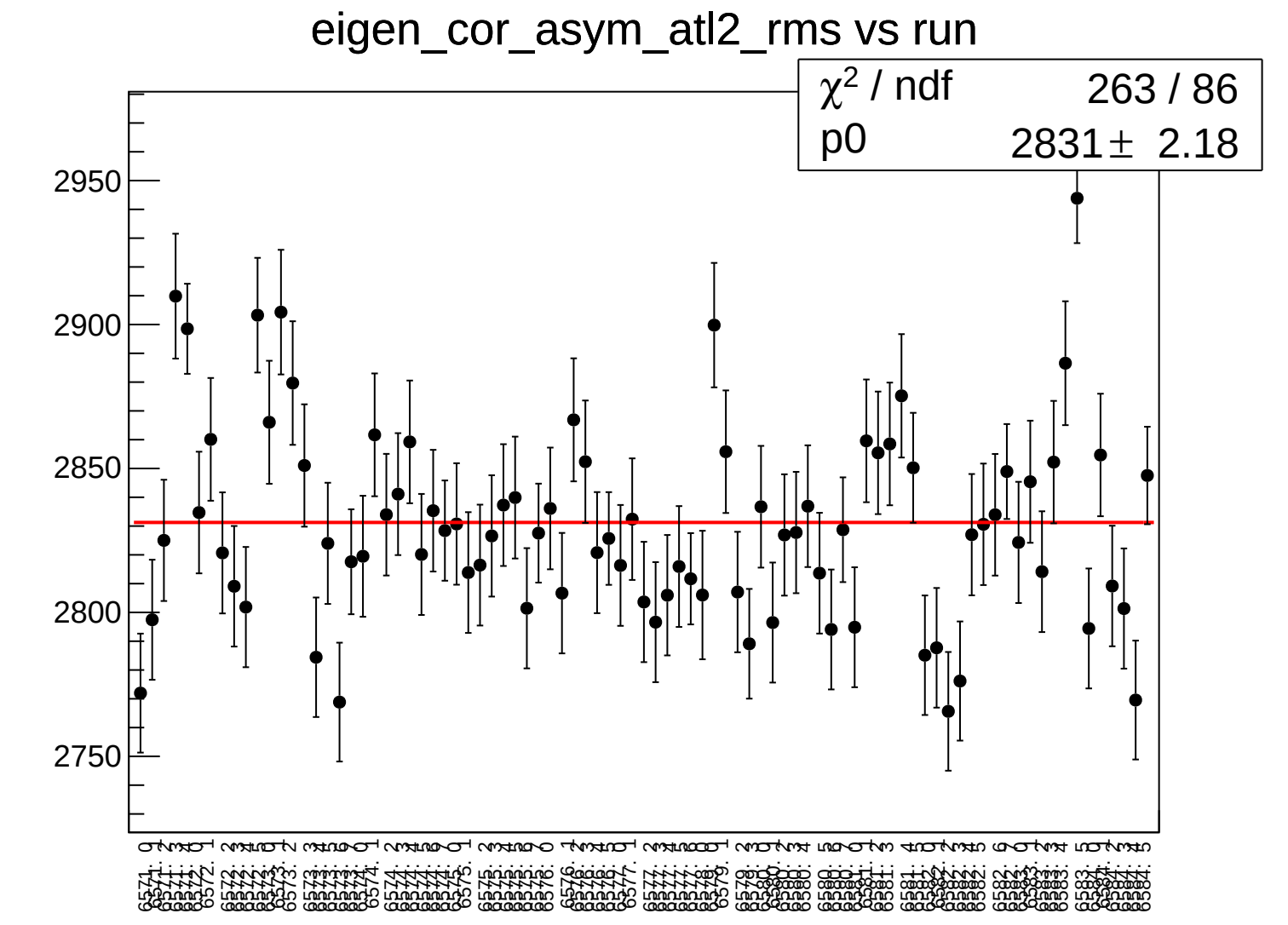

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 96.86 / 86
p0 5970 ± 9516
pull
Entries 87
Mean −813.1
Std Dev 0

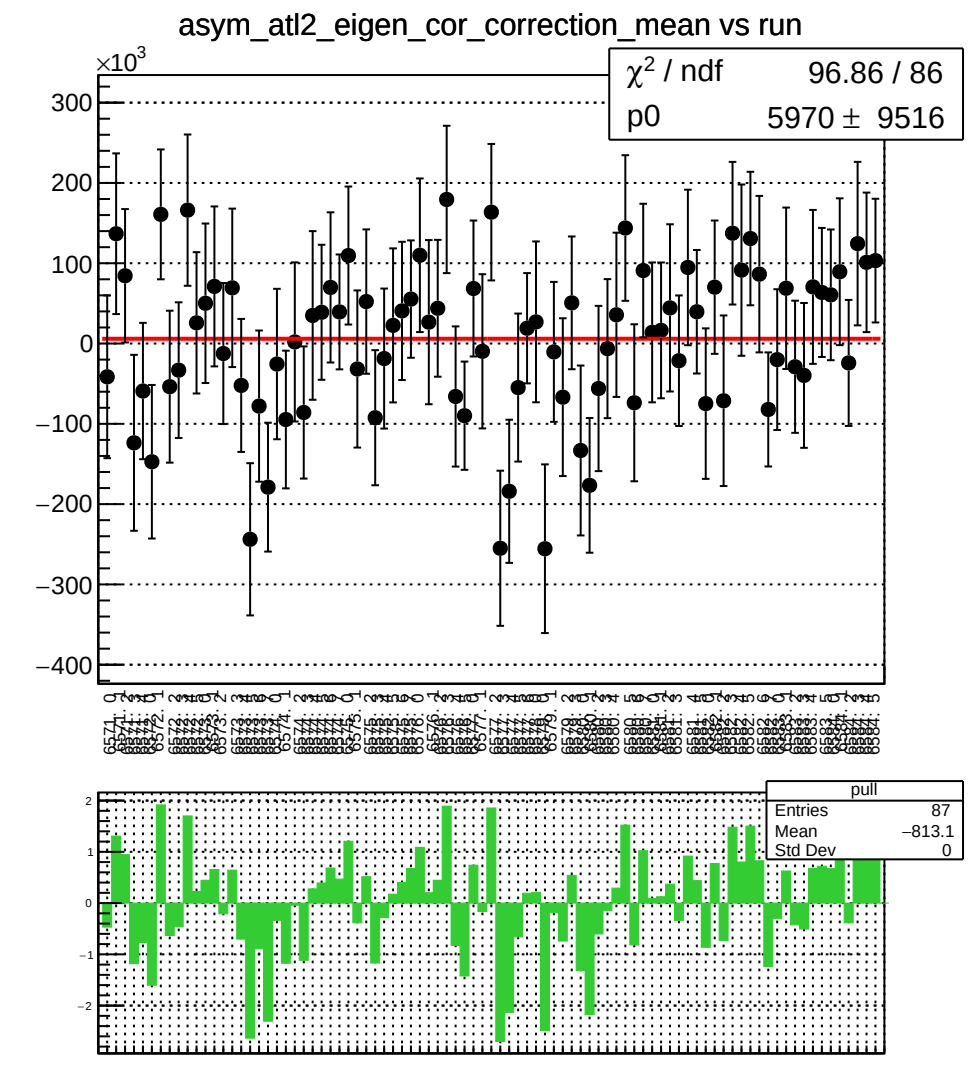

pull1D
Entries 87
Mean −0.005083
Std Dev 1.055

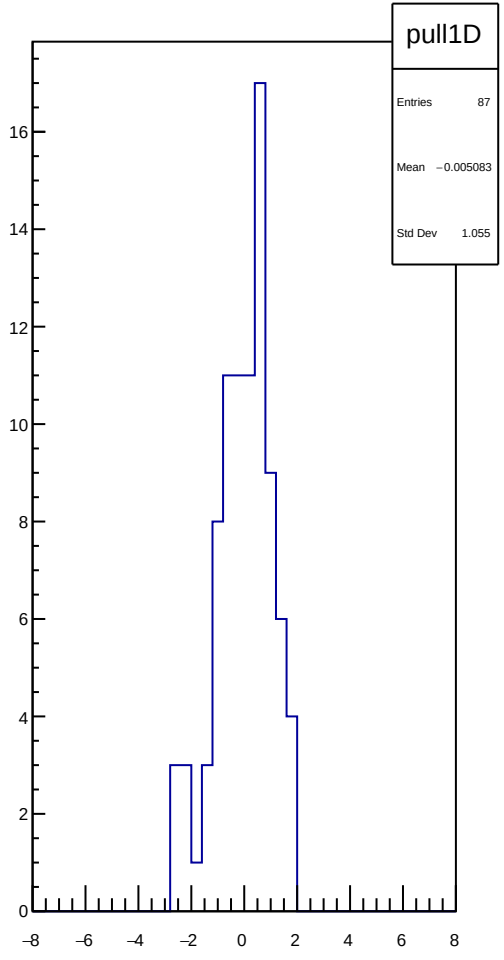

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.234e+04 / 86
p0 8707 ± 6.729
11500
11000
10500
10000
9500
9000
8500
8000
7500

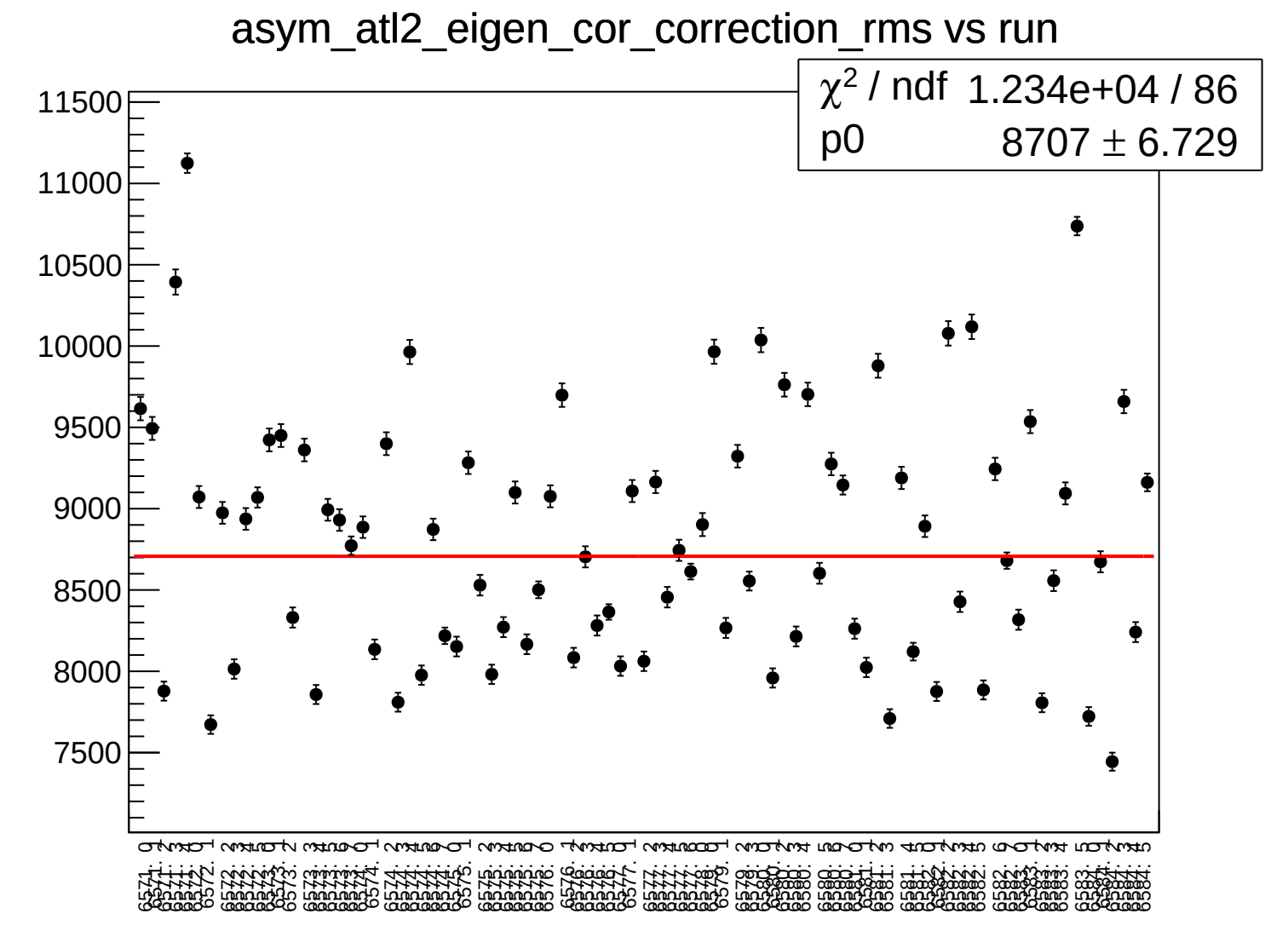

eigen_cor_asym_atl2_mean vs run
χ² / ndf 96.27 / 86
p0 2738 ± 3083
×10³
pull
Entries 87
Mean −2737
Std Dev 0

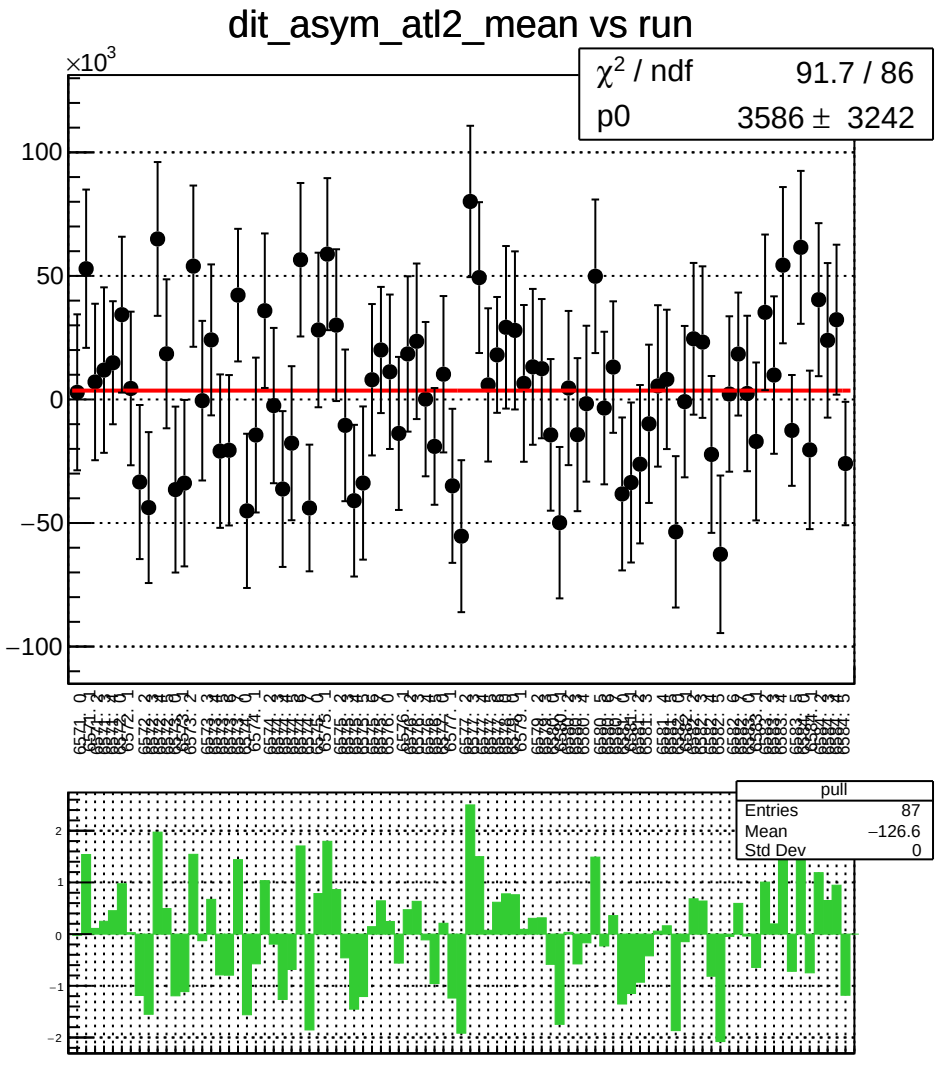

pull1D
Entries 87
Mean 0.0005163
Std Dev 1.052

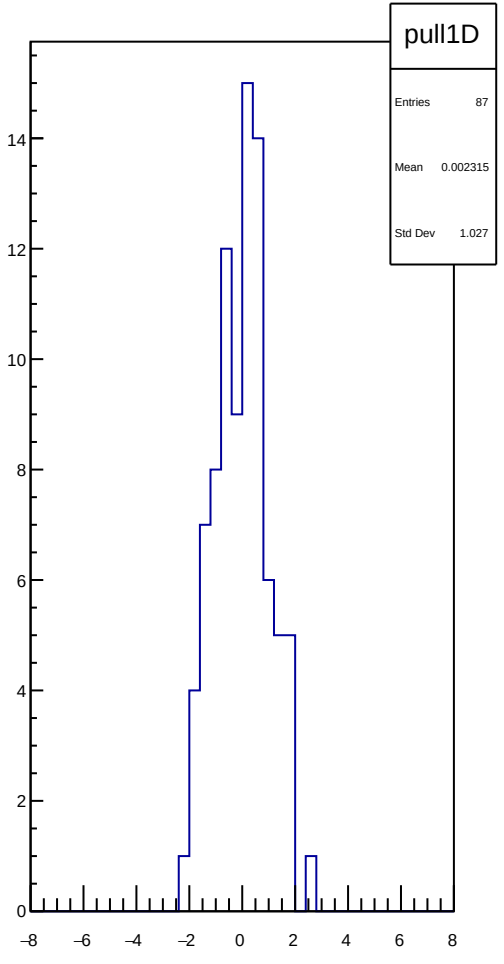

eigen_cor_asym_atl2_rms vs run
χ² / ndf 263 / 86
p0 2831 ± 2.18
2950
2900
2850
2800
2750

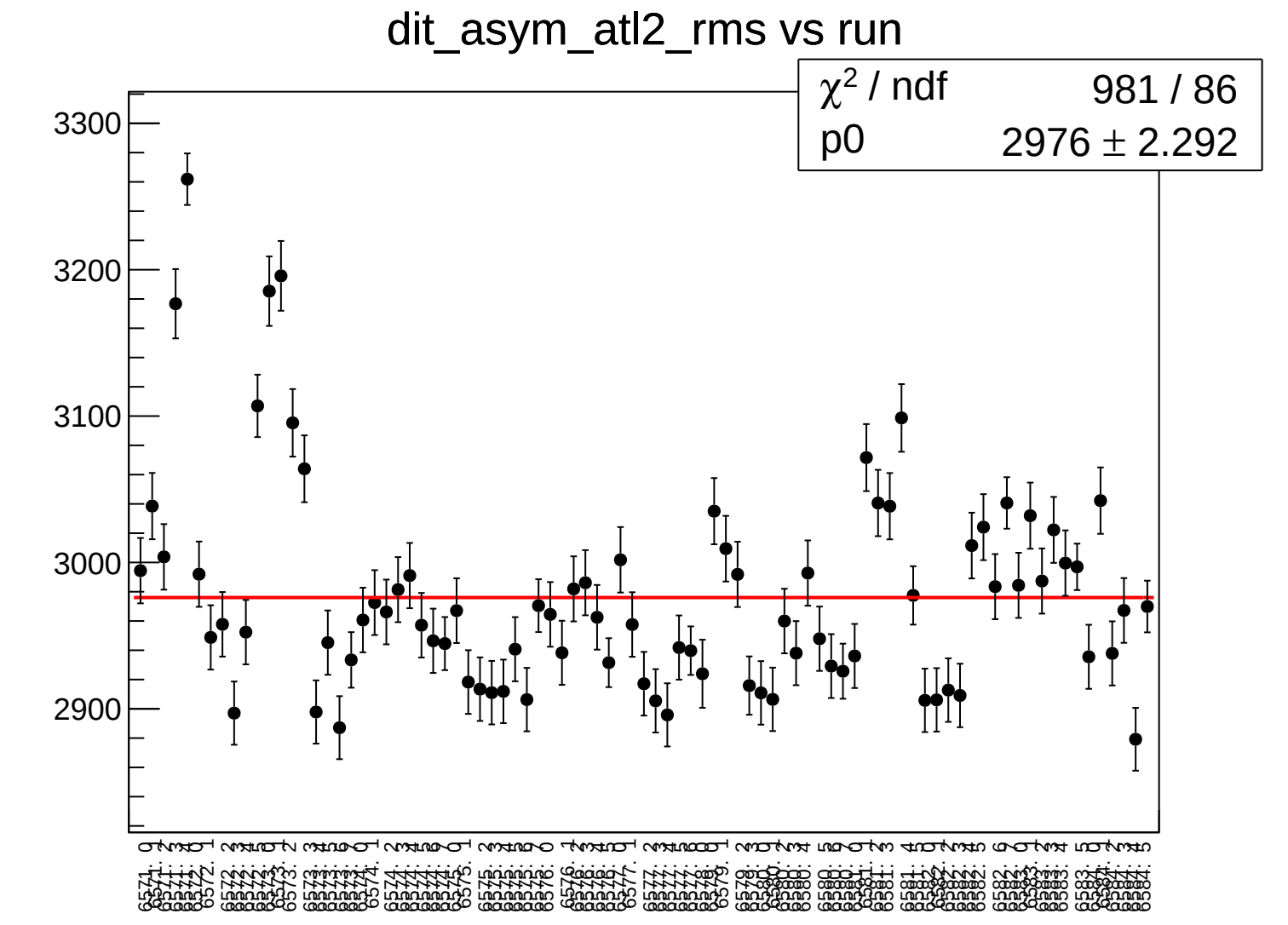

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.86 / 86
p0 5970 ± 9516
pull
Entries 87
Mean −813.1
Std Dev 0

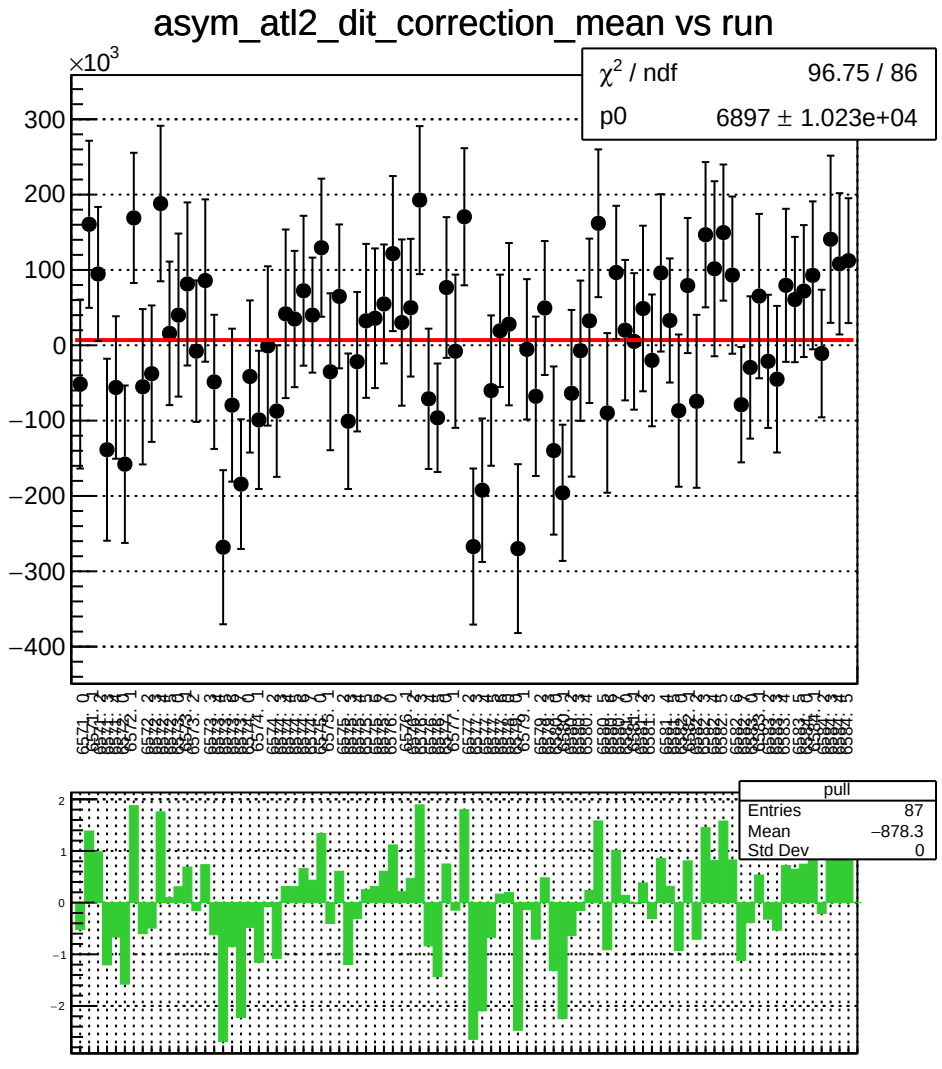

pull1D
Entries 87
Mean −0.005083
Std Dev 1.055

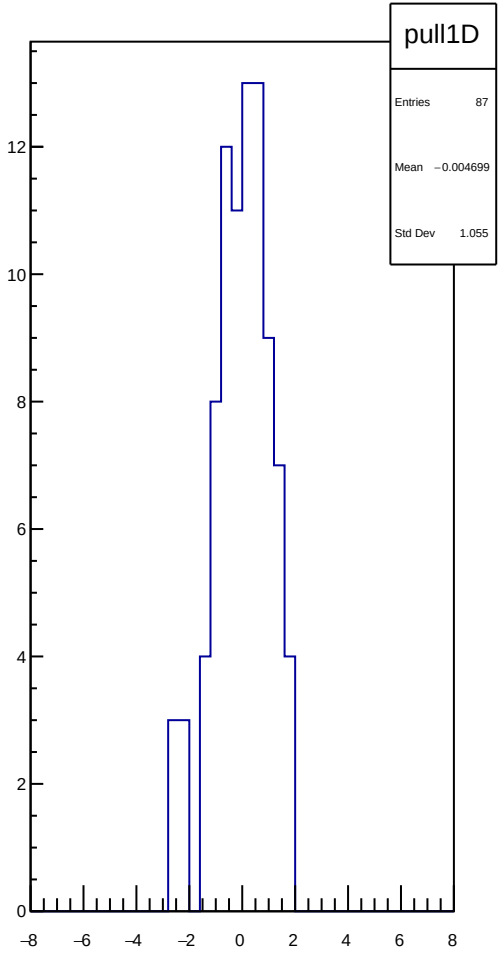

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.234e+04 / 86
p0 8707 ± 6.729
11500
11000
10500
10000
9500
9000
8500
8000
7500

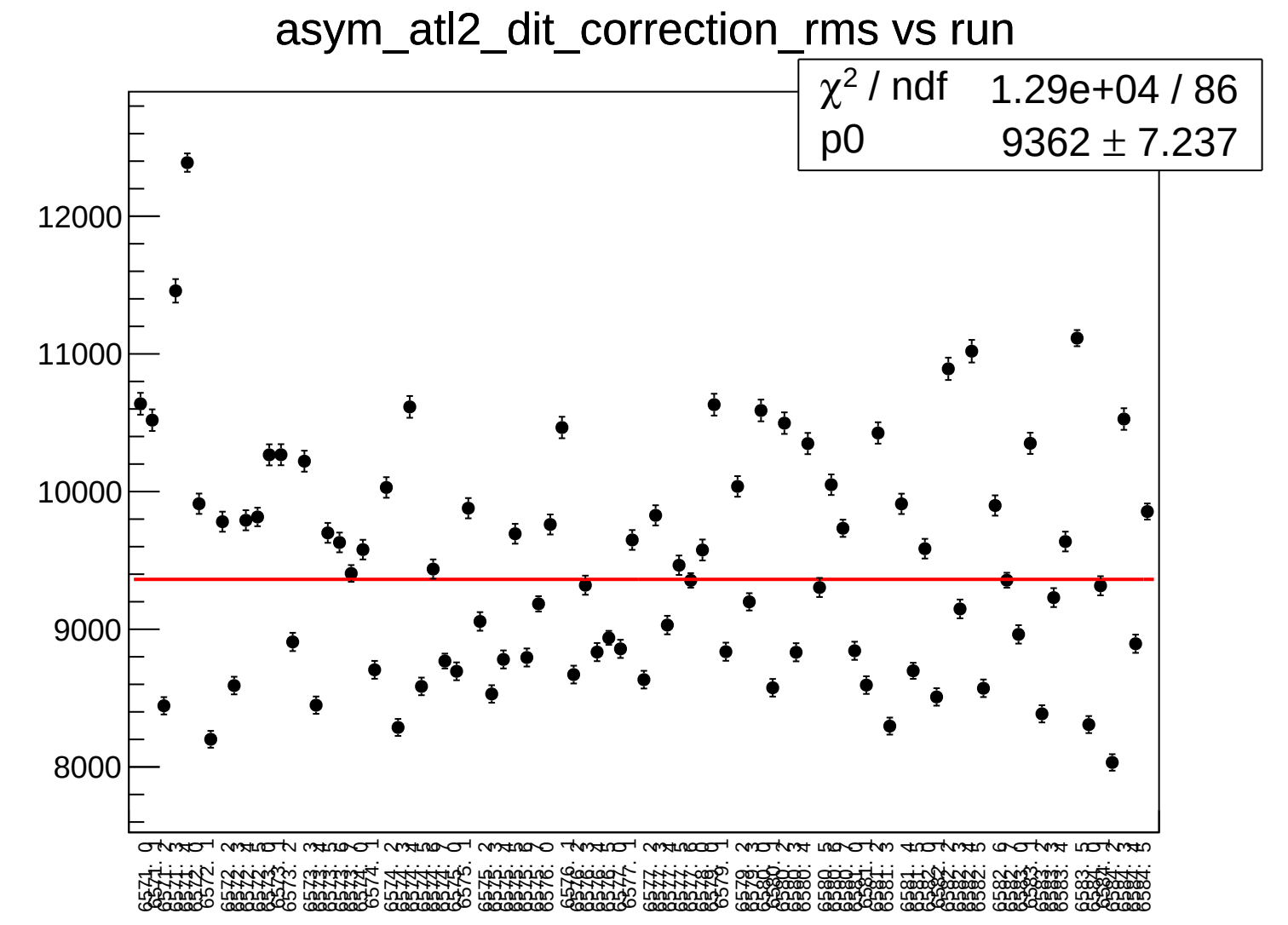

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 91.7 / 86
p0 3586 ± 3242
100
50
0
−50
−100
pull
Entries 87
Mean −126.6
Std Dev 0
2
1
0
−1
−2

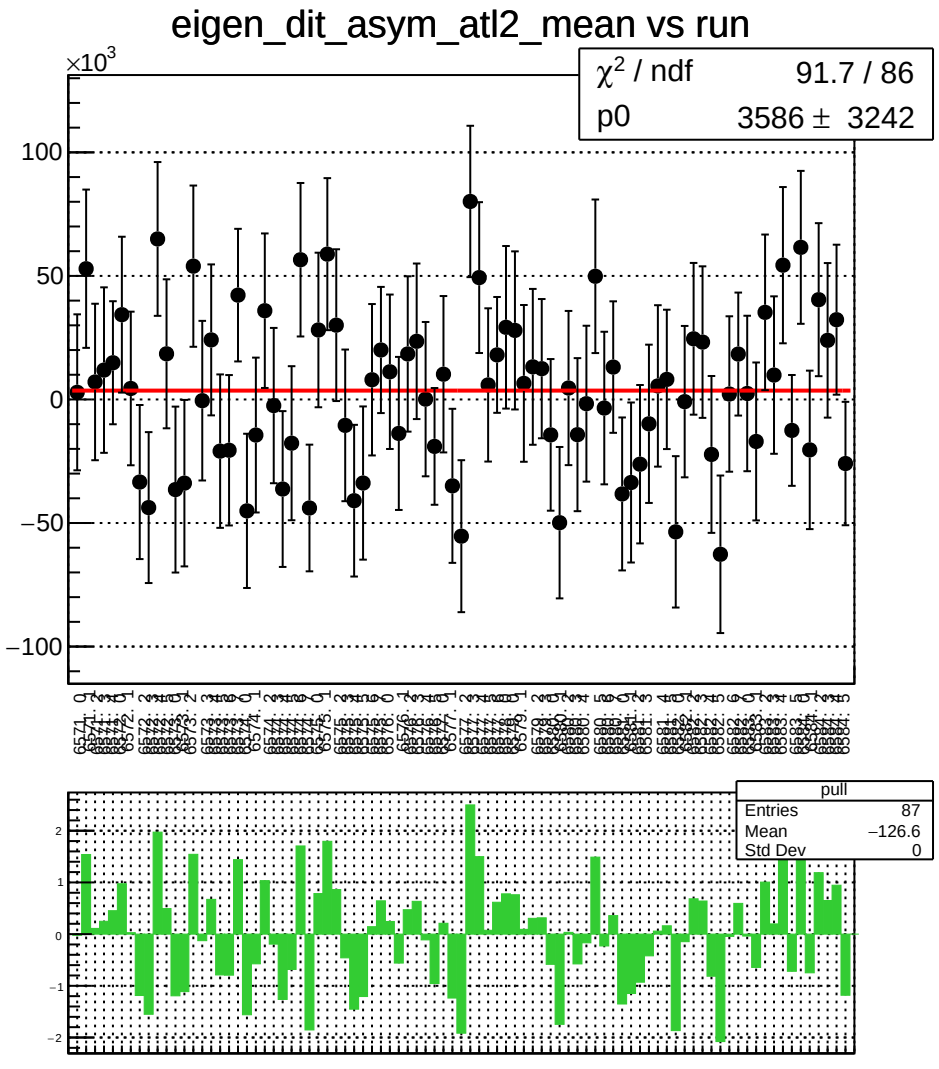

pull1D
Entries 87
Mean 0.002315
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

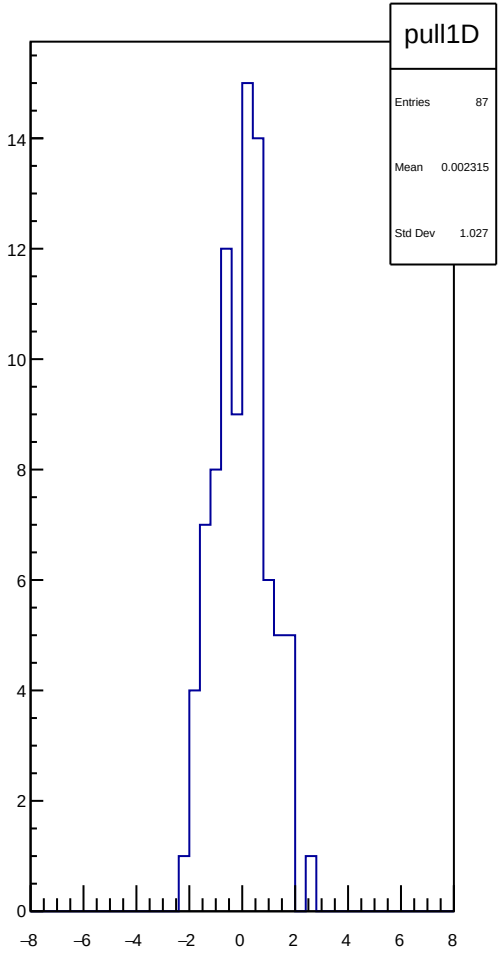

dit_asym_atl2_rms vs run
χ² / ndf 981 / 86
p0 2976 ± 2.292
3300
3200
3100
3000
2900

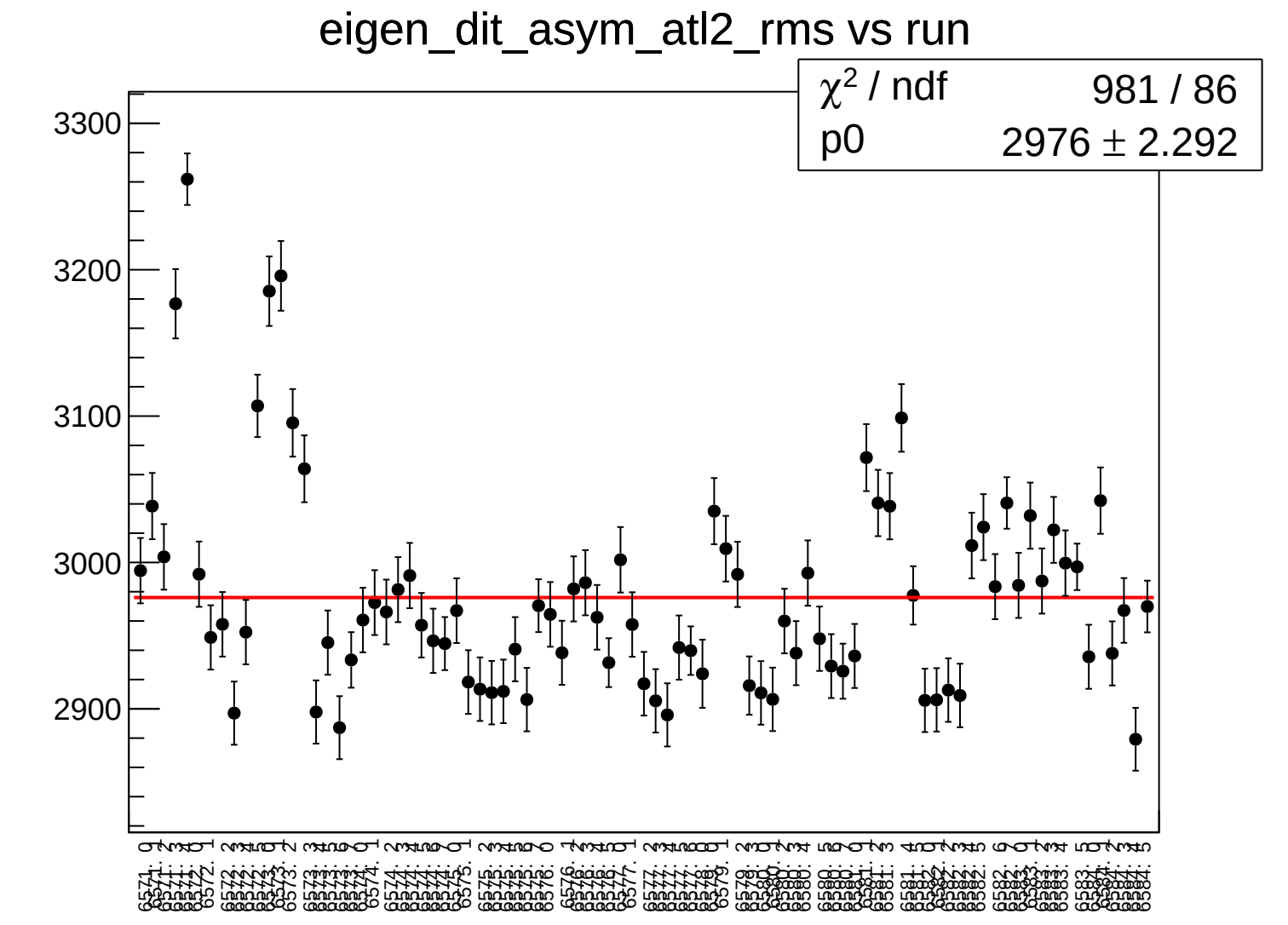

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 96.75 / 86
p0 6897 ± 1.023e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean −878.3
Std Dev 0
2
1
0
−1
−2

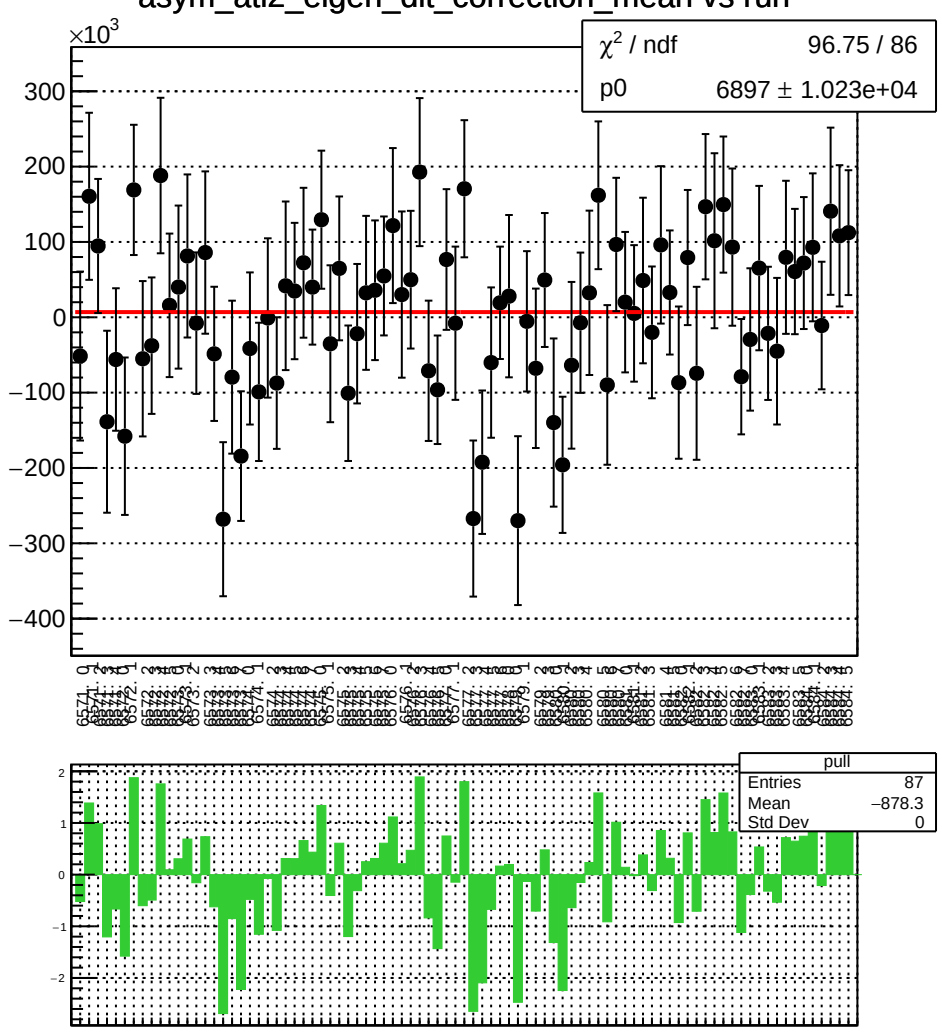

pull1D
Entries 87
Mean −0.004699
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

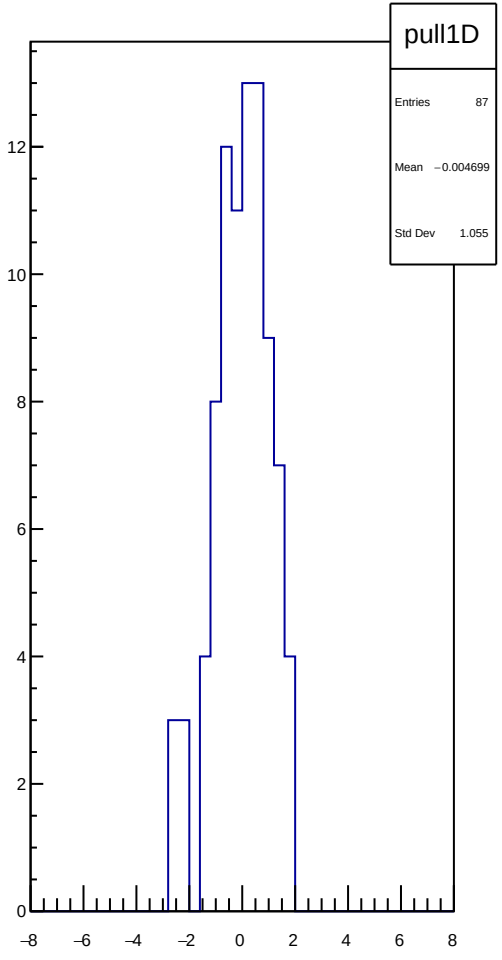

asym_atl2_dit_correction_rms vs run
χ² / ndf 1.29e+04 / 86
p0 9362 ± 7.237
12000
11000
10000
9000
8000

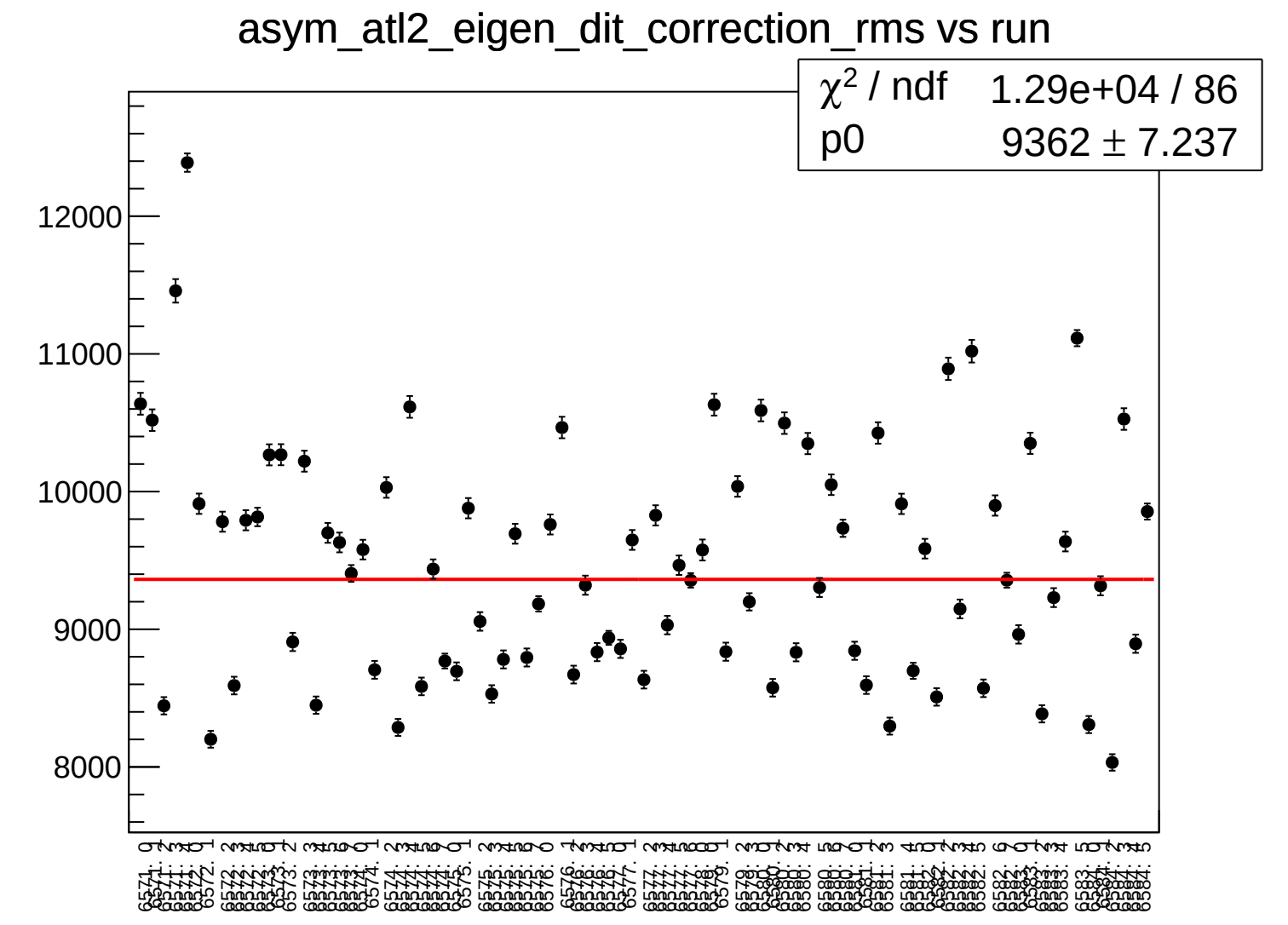

eigen_dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 91.7 / 86
p0 3586 ± 3242
100
50
0
−50
−100
pull
Entries 87
Mean −126.6
Std Dev 0
2
1
0
−1
−2

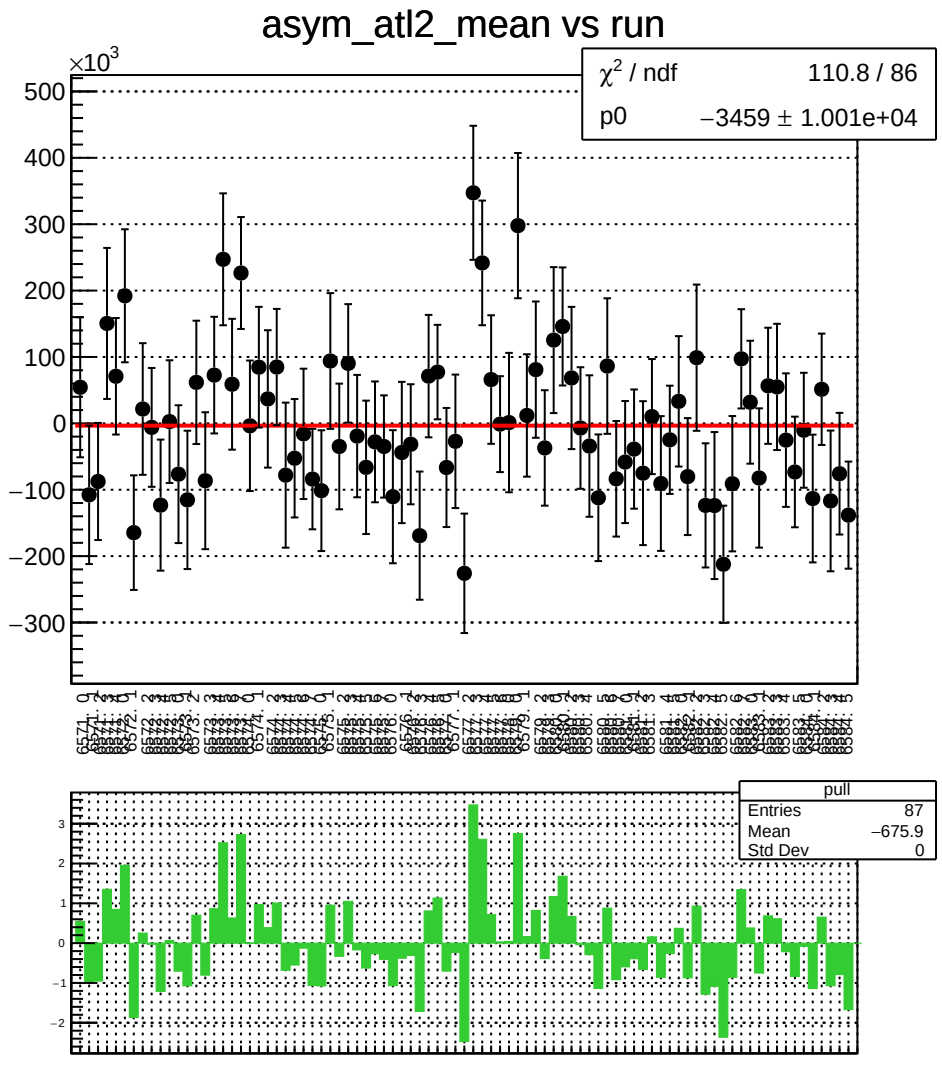

pull1D
Entries 87
Mean 0.002315
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

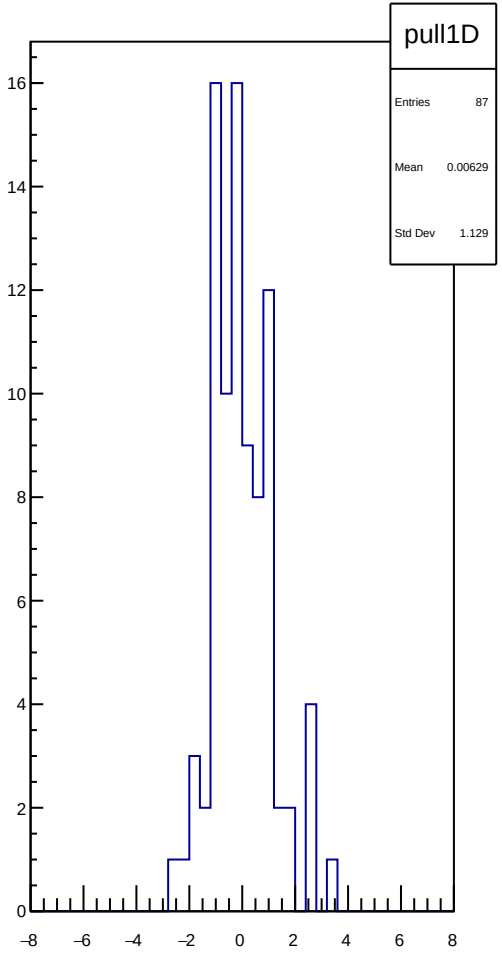

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 981 / 86
p0 2976 ± 2.292
3300
3200
3100
3000
2900

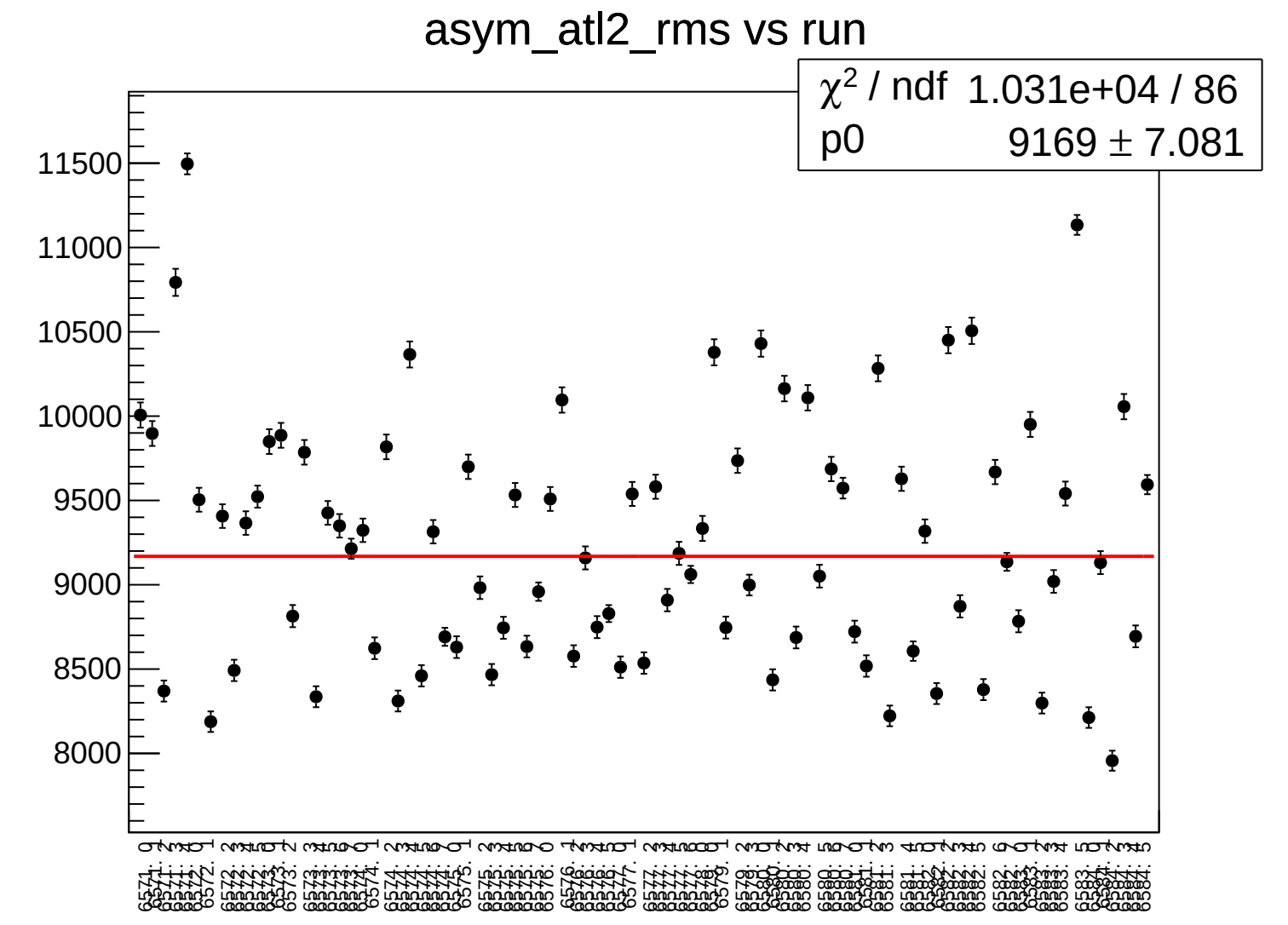

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.75 / 86
p0 6897 ± 1.023e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean −878.3
Std Dev 0
2
1
0
−1
−2

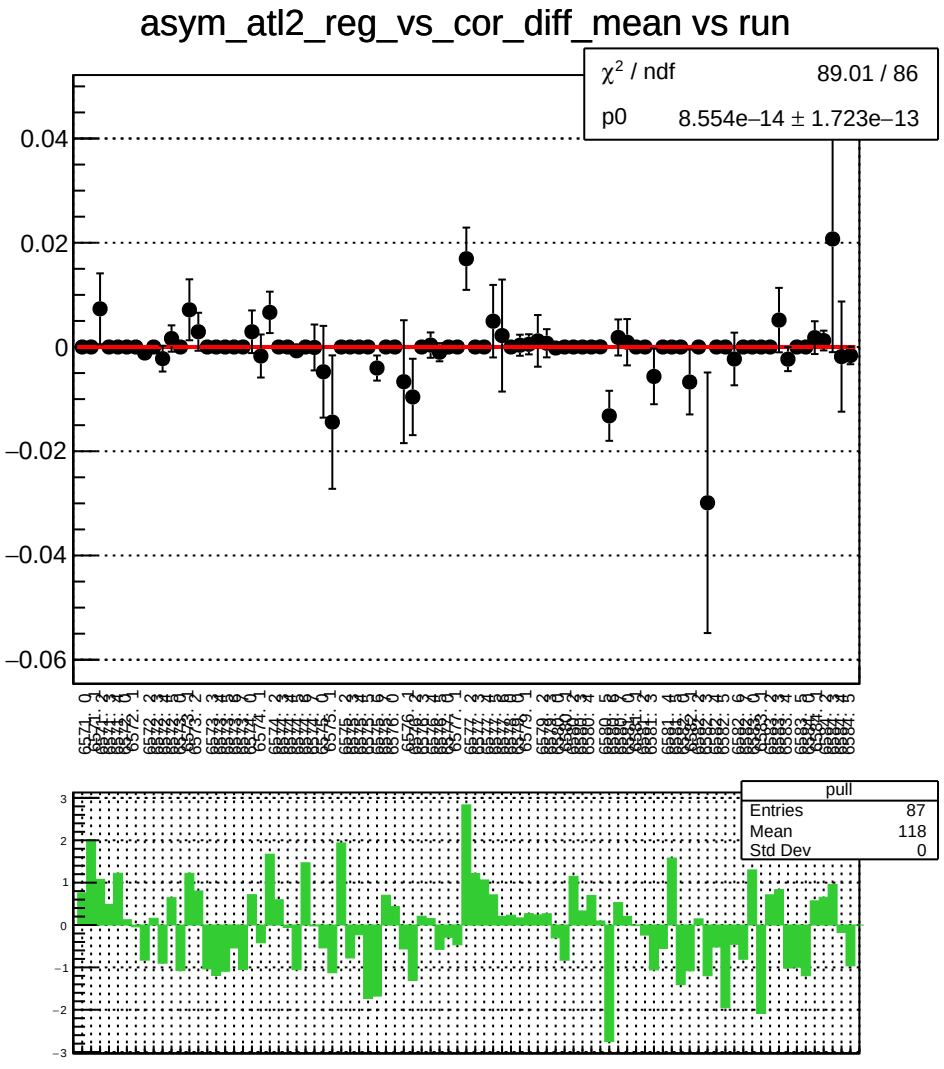

pull1D
Entries 87
Mean −0.004699
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

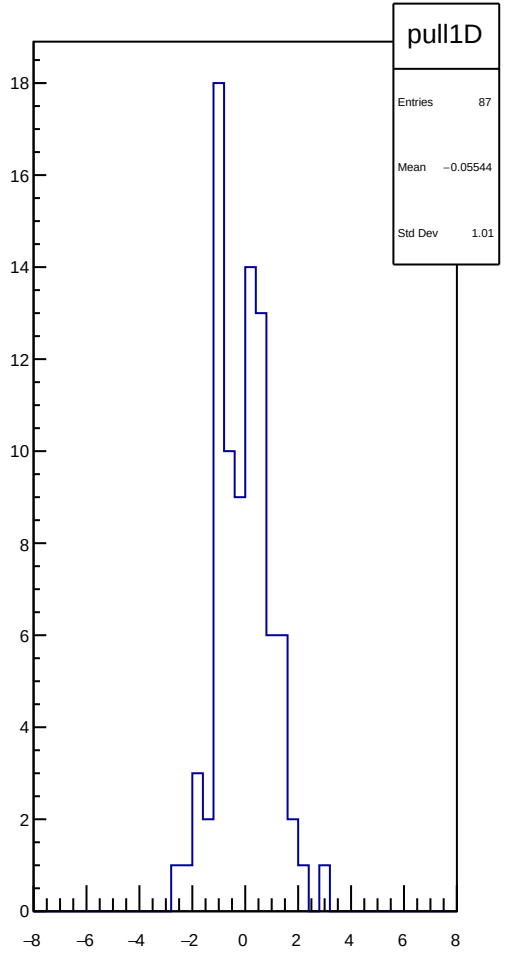

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1.29e+04 / 86
p0 9362 ± 7.237
12000
11000
10000
9000
8000

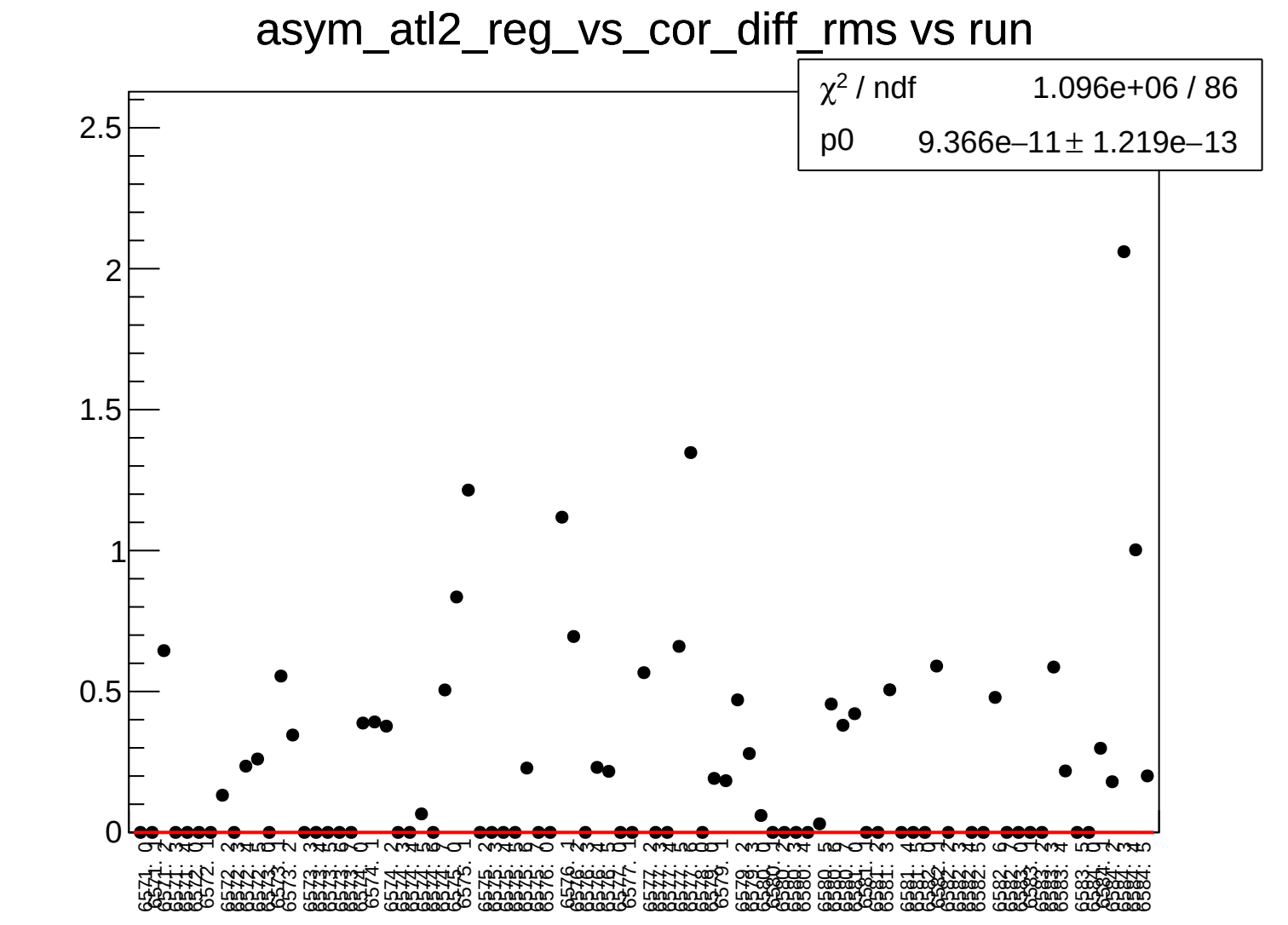

asym_atl2_mean vs run
×10^3
χ² / ndf 110.8 / 86
p0 −3459 ± 1.001e+04
pull
Entries 87
Mean −675.9
Std Dev 0

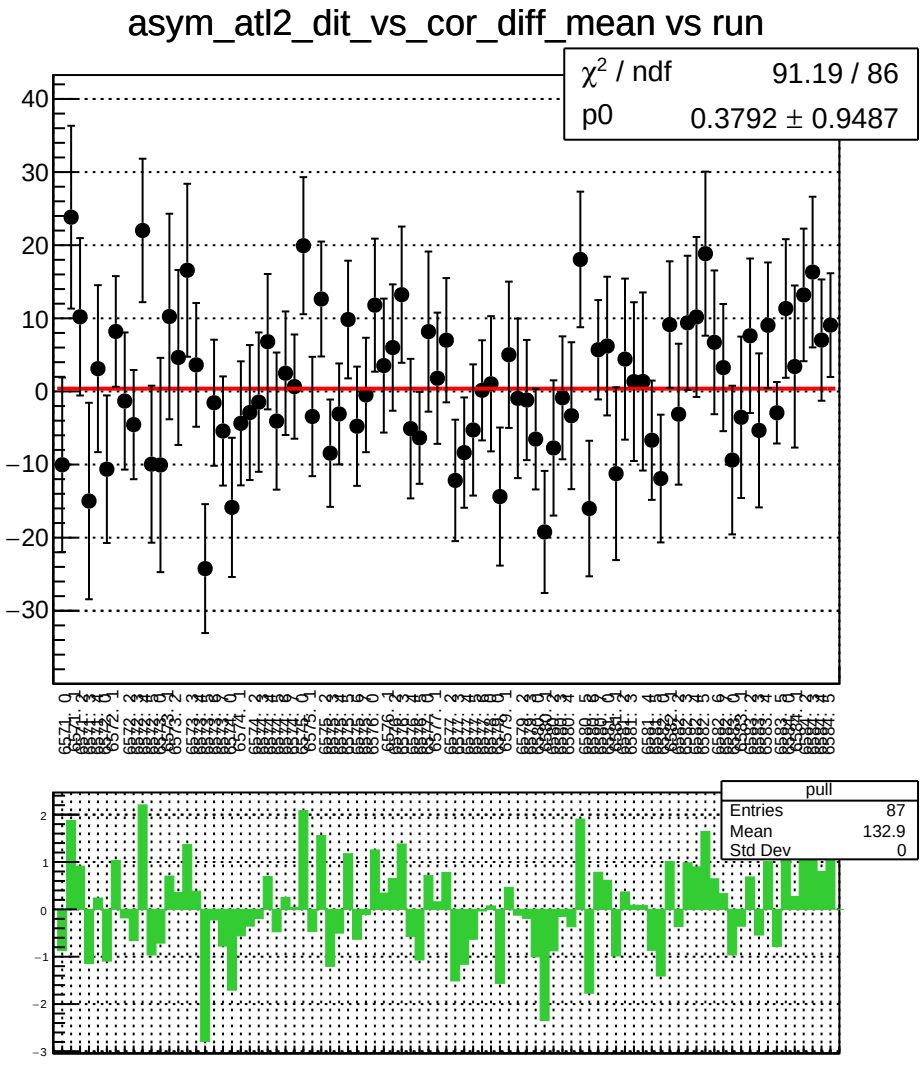

pull1D
Entries 87
Mean 0.00629
Std Dev 1.129

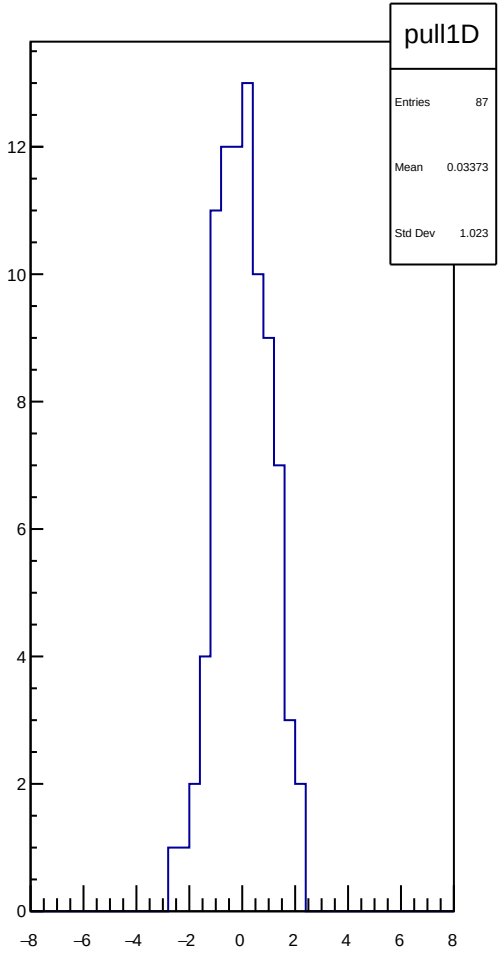

asym_atl2_rms vs run
χ² / ndf 1.031e+04 / 86
p0 9169 ± 7.081
11500
11000
10500
10000
9500
9000
8500
8000

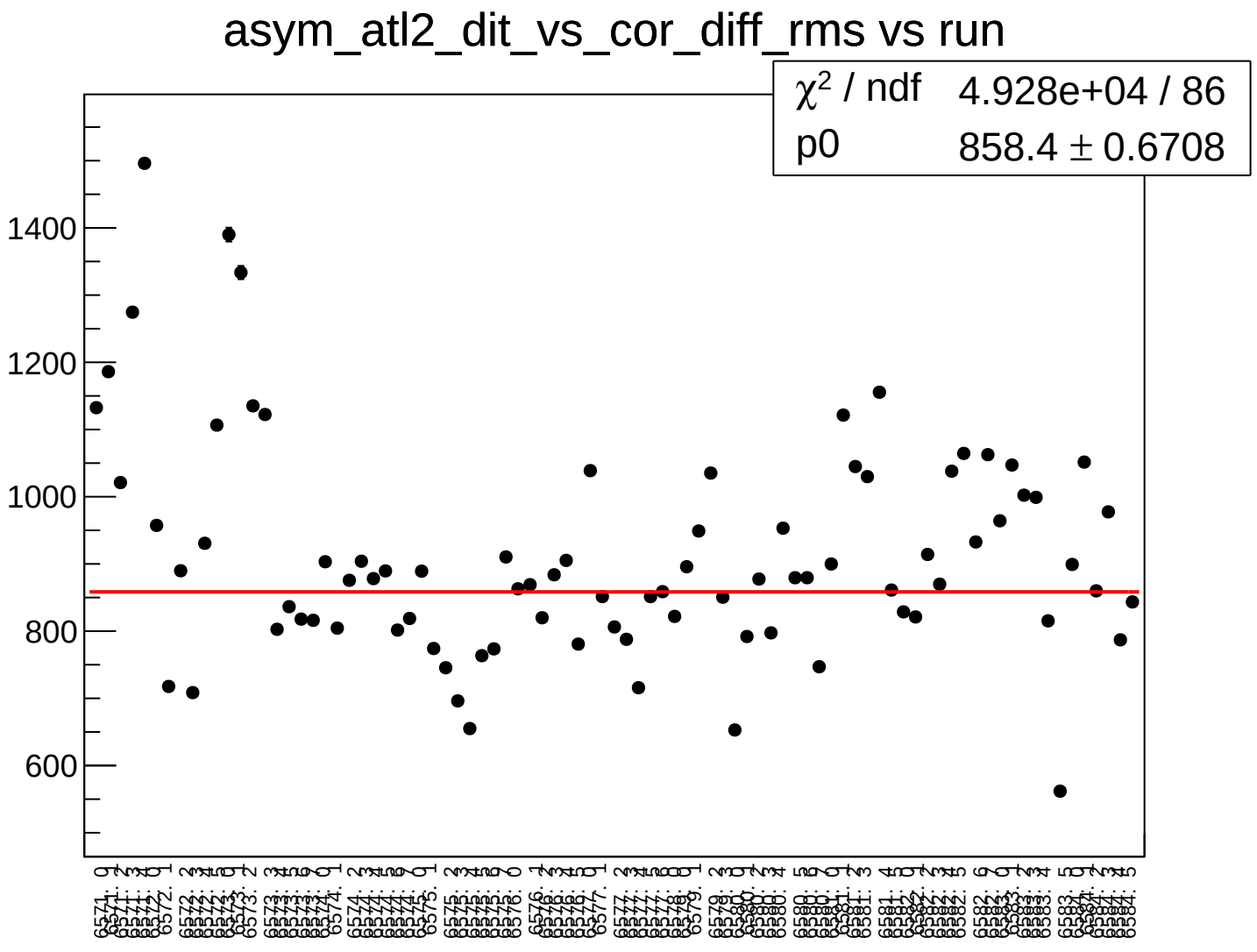

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 89.01 / 86
p0 8.554e−14 ± 1.723e−13
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean 118
Std Dev 0
3
2
1
0
−1
−2
−3

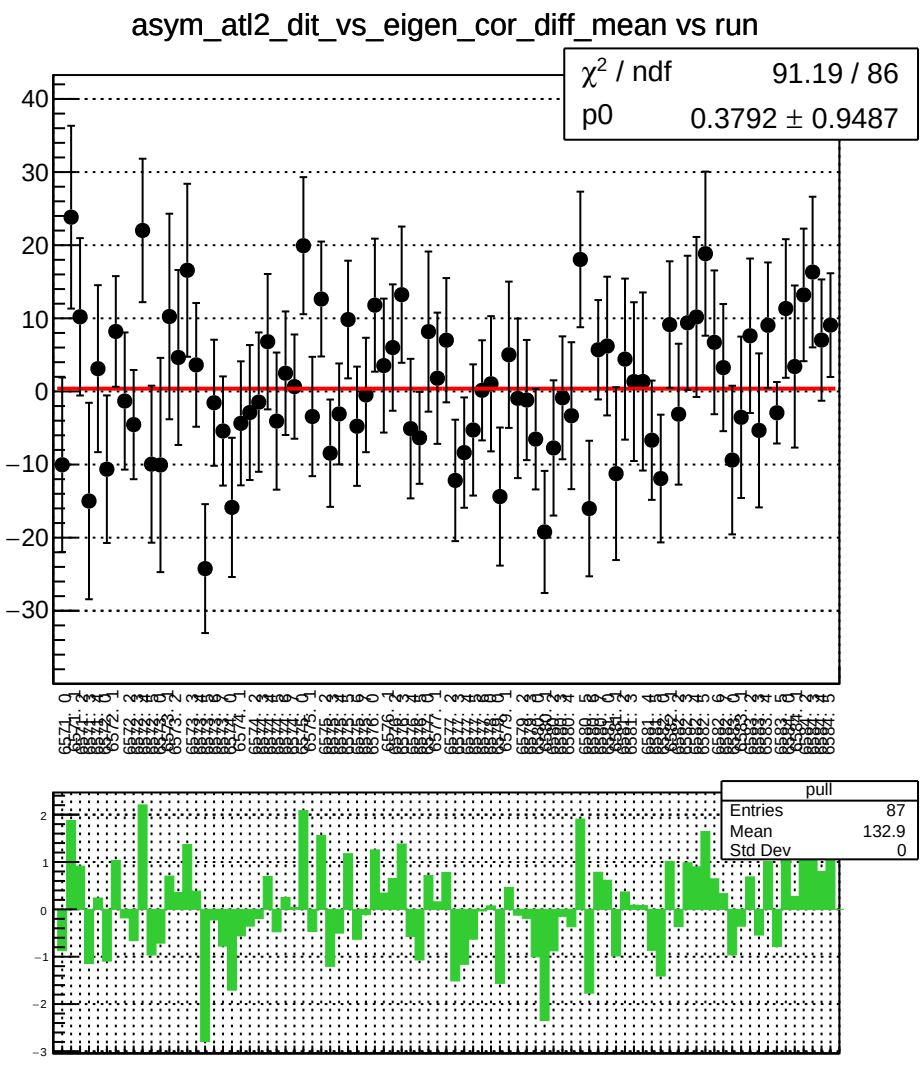

pull1D
Entries 87
Mean −0.05544
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

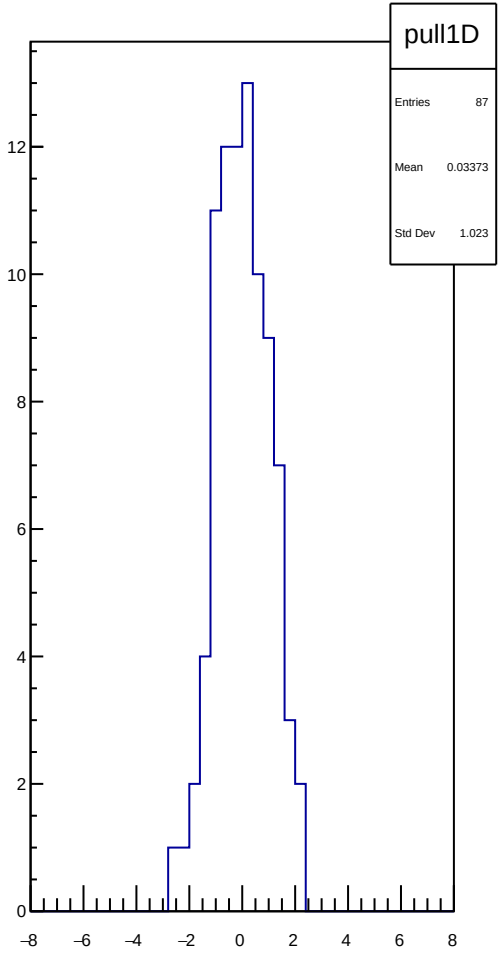

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 86
p0 9.366e−11 ± 1.219e−13
2.5
2
1.5
1
0.5
0

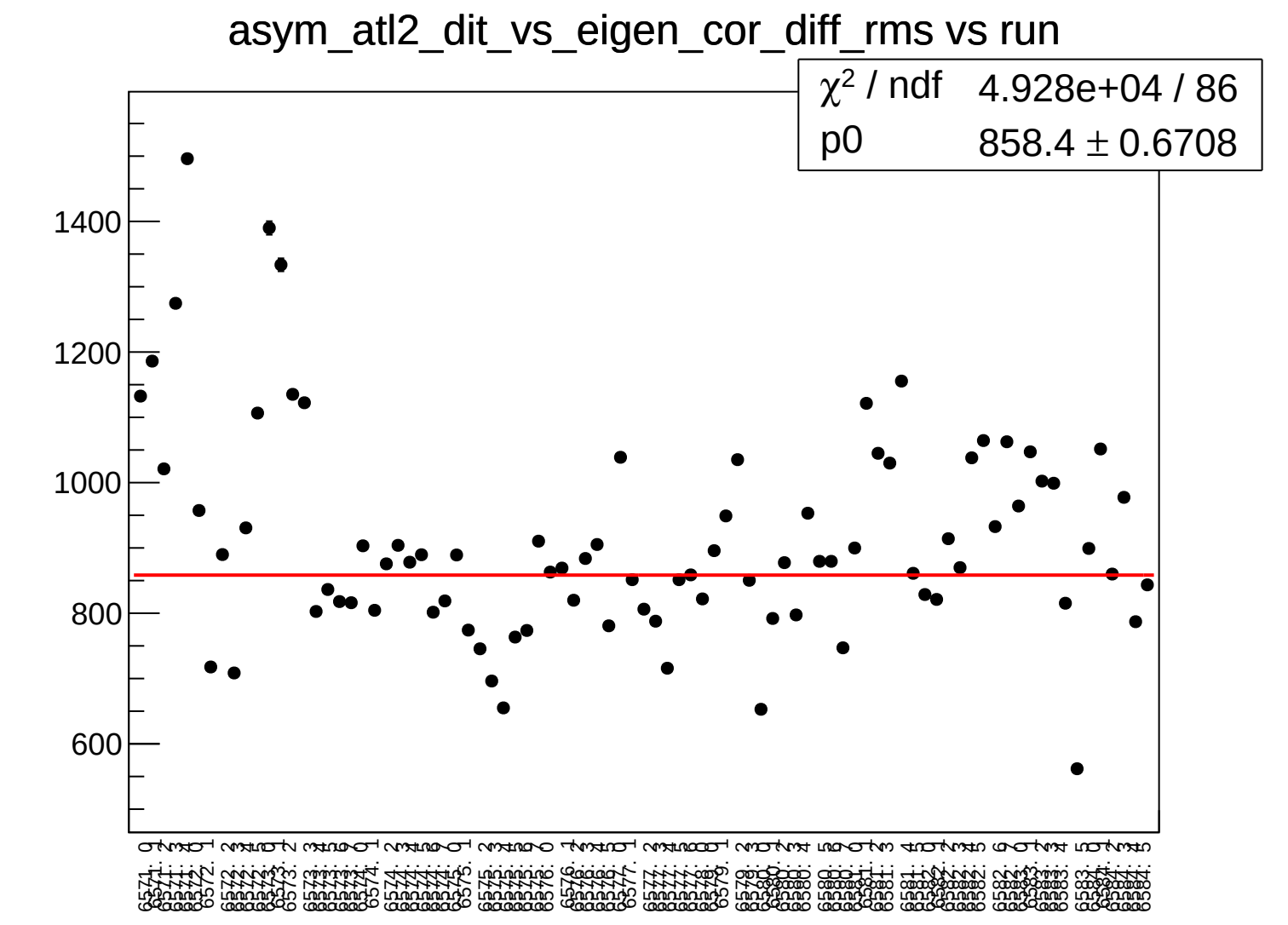

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 91.19 / 86
p0 0.3792 ± 0.9487
pull
Entries 87
Mean 132.9
Std Dev 0

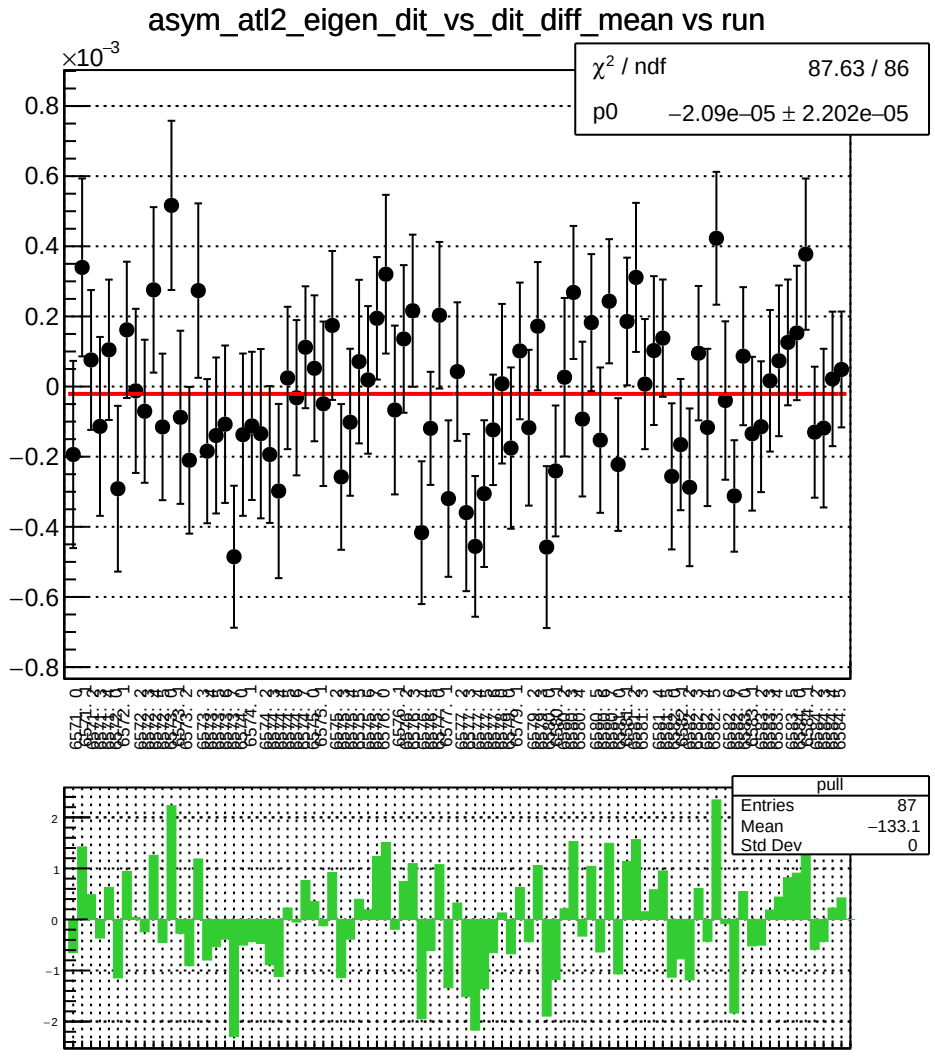

pull1D
Entries 87
Mean 0.03373
Std Dev 1.023

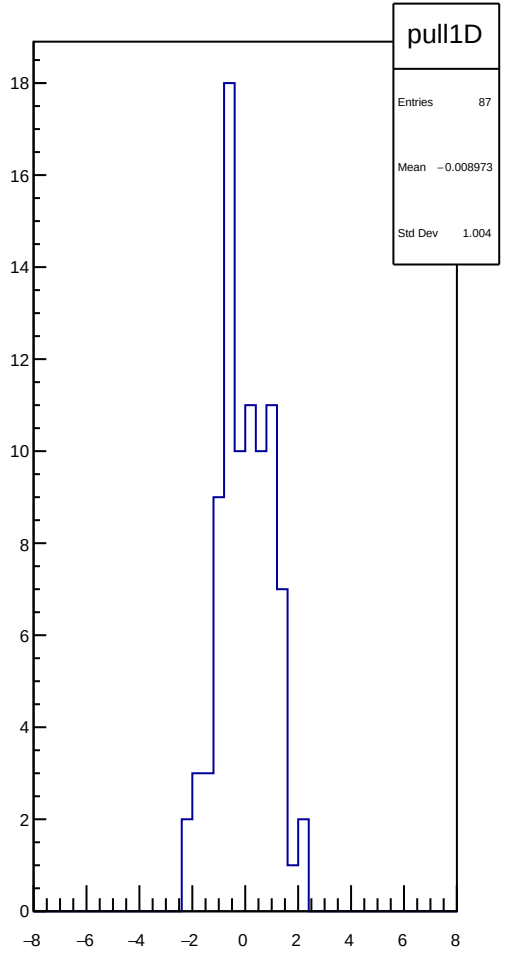

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.928e+04 / 86
p0 858.4 ± 0.6708
1400
1200
1000
800
600

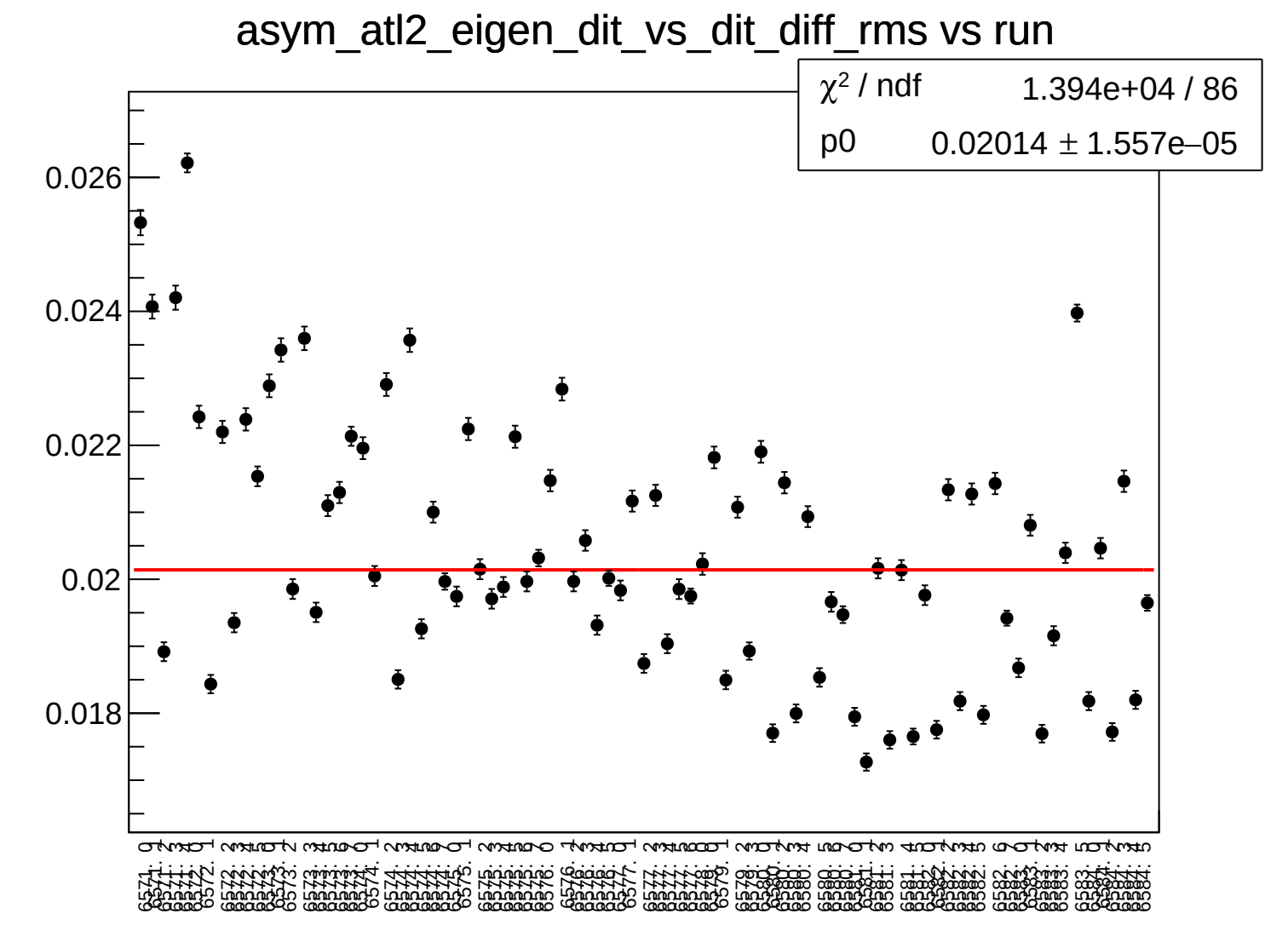

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.19 / 86
p0 0.3792 ± 0.9487
pull
Entries 87
Mean 132.9
Std Dev 0

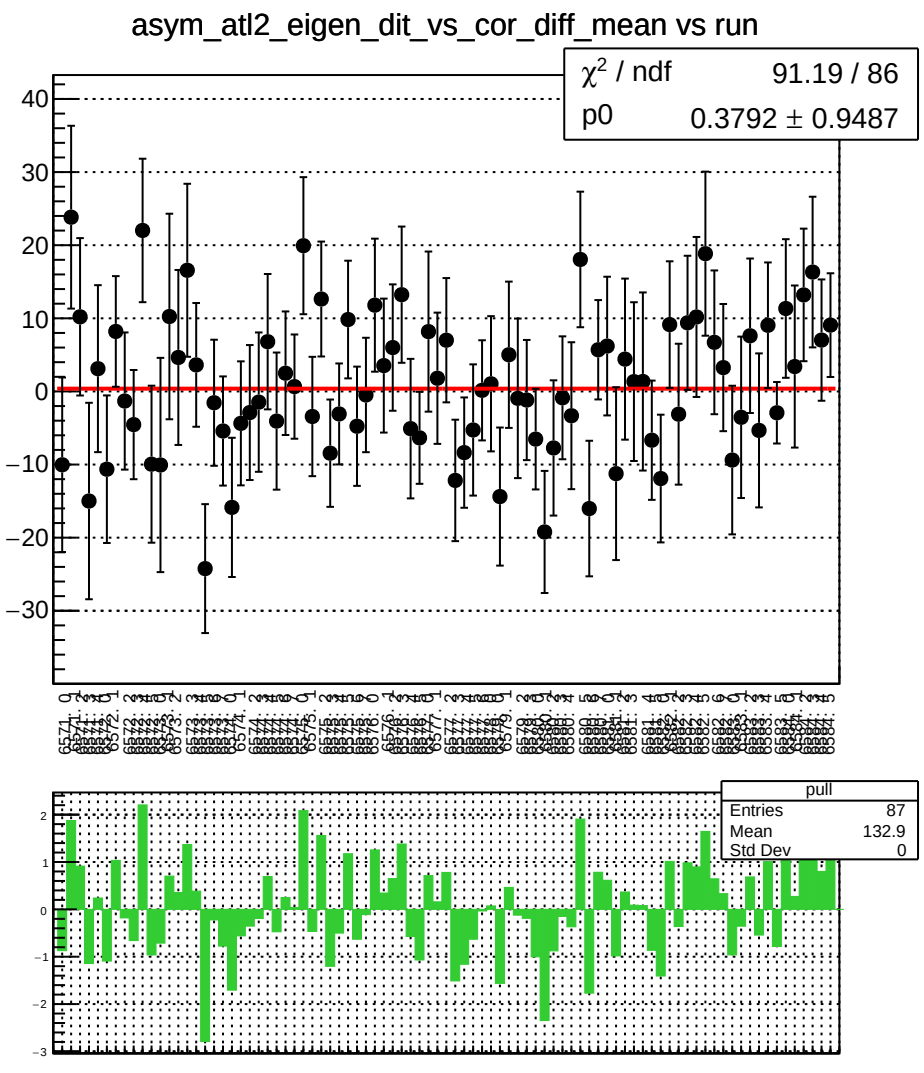

pull1D
Entries 87
Mean 0.03373
Std Dev 1.023

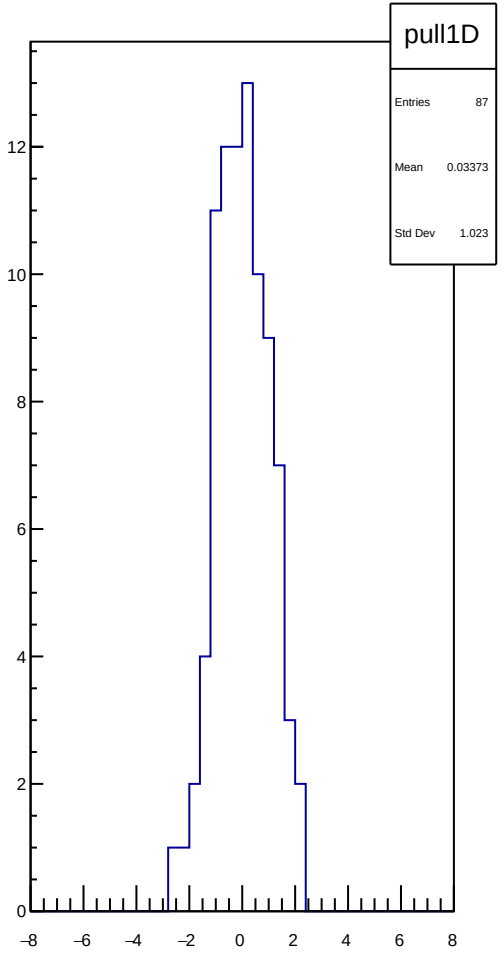

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.928e+04 / 86
p0 858.4 ± 0.6708
1400
1200
1000
800
600

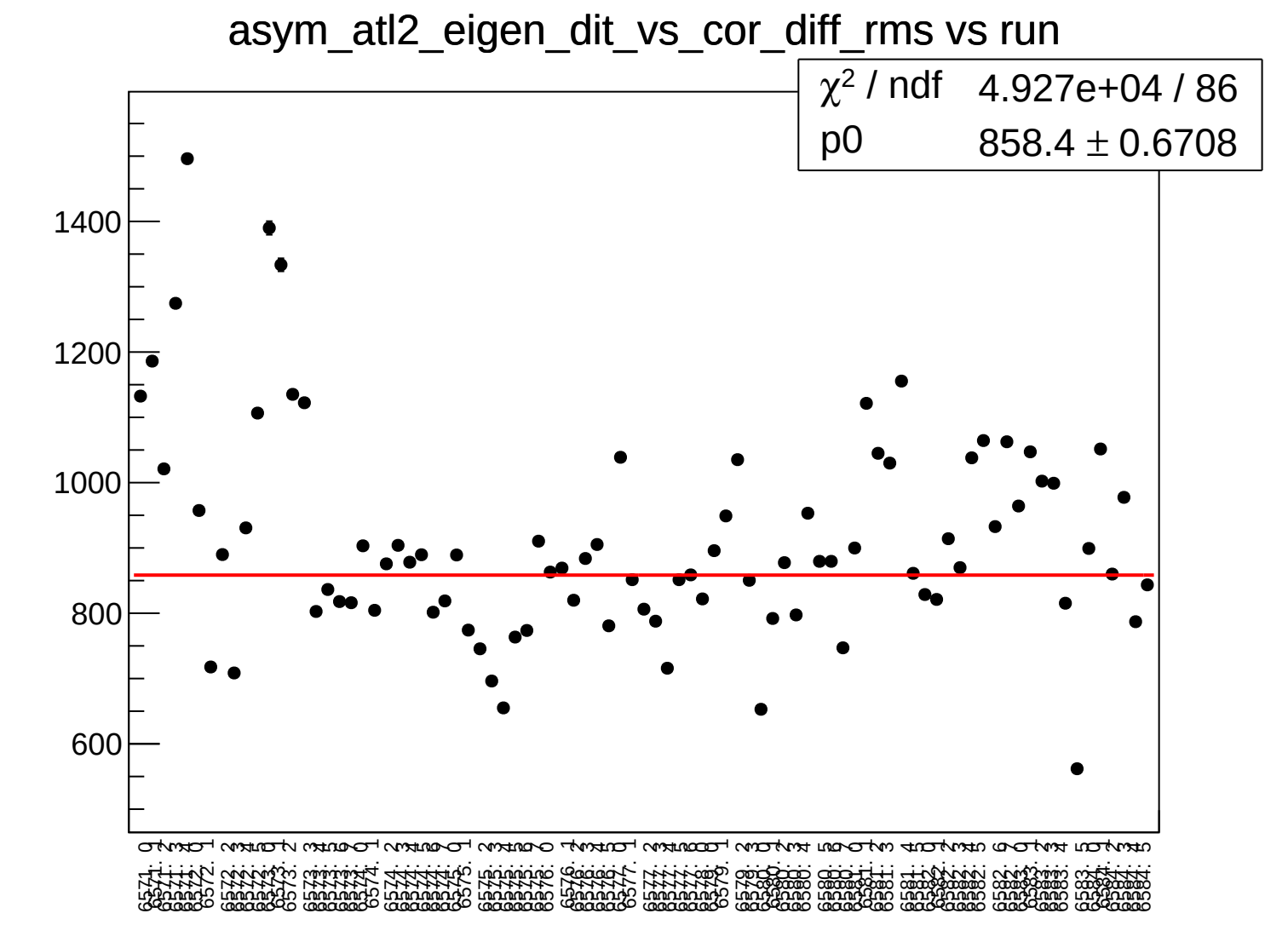

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.63 / 86
p0 −2.09e−05 ± 2.202e−05
pull
Entries 87
Mean −133.1
Std Dev 0

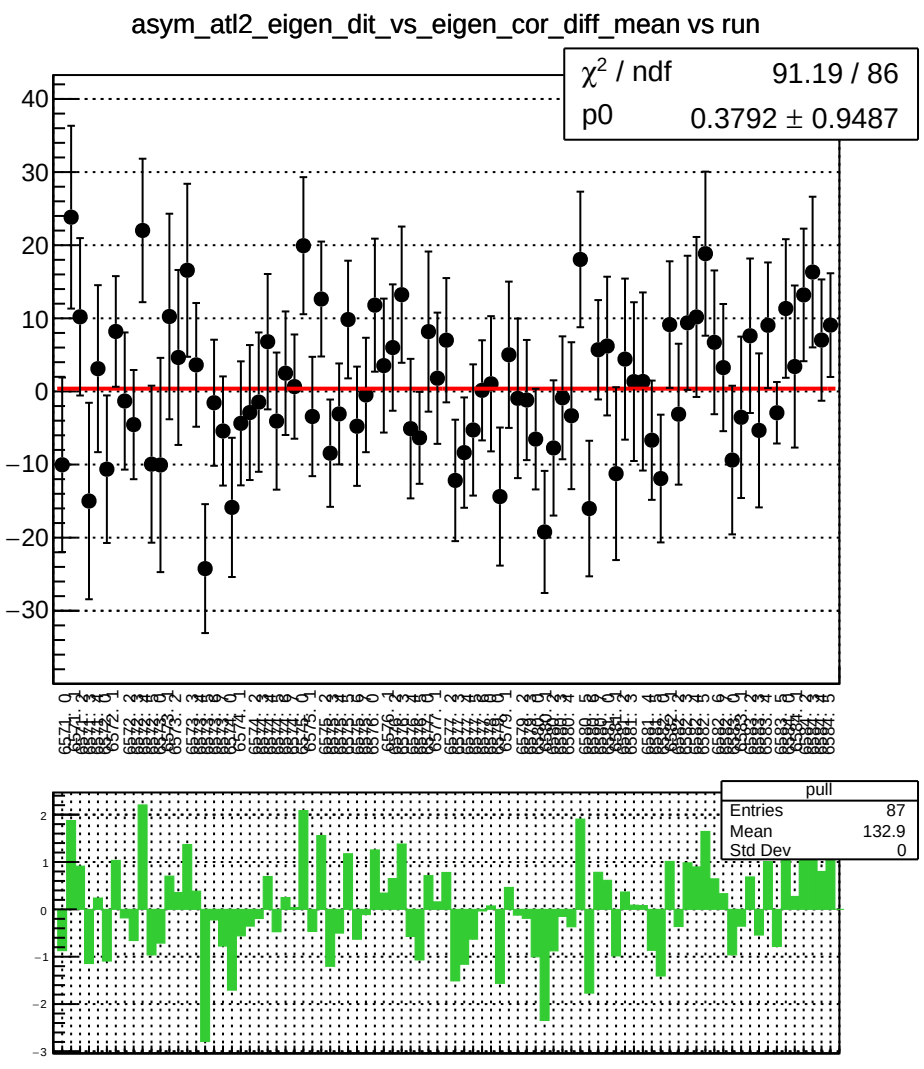

pull1D
Entries 87
Mean −0.008973
Std Dev 1.004

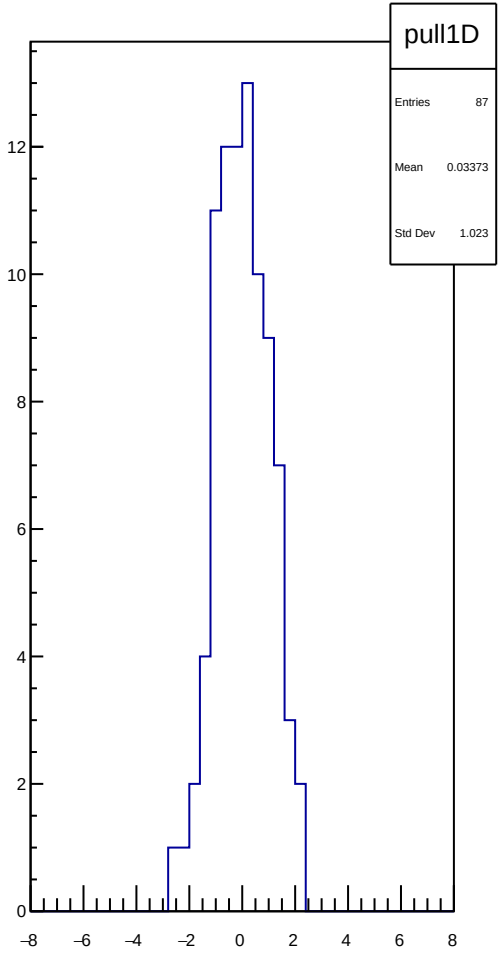

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.394e+04 / 86
p0 0.02014 ± 1.557e–05
0.026
0.024
0.022
0.02
0.018

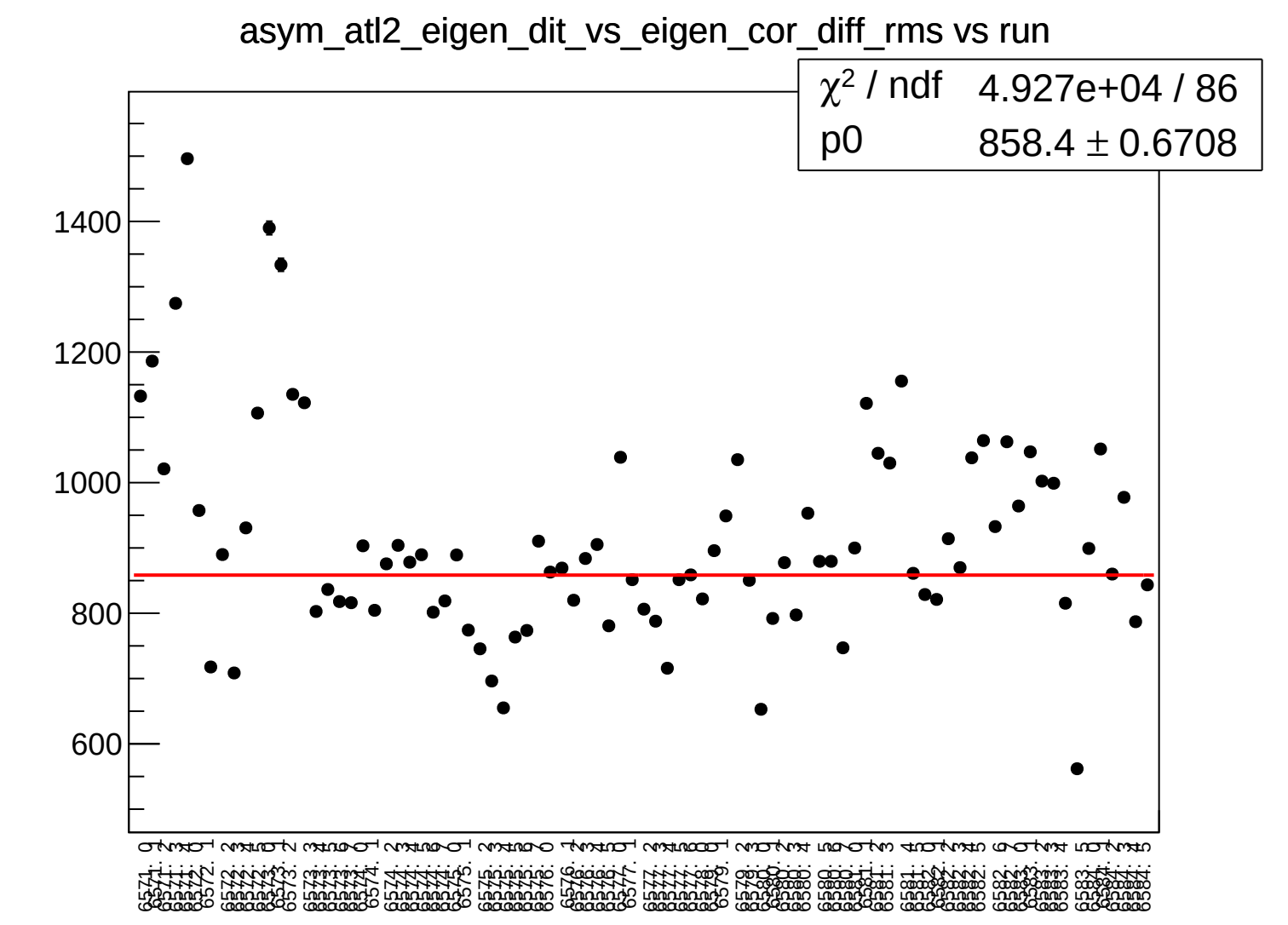

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.19 / 86
p0 0.3792 ± 0.9487
pull
Entries 87
Mean 132.9
Std Dev 0

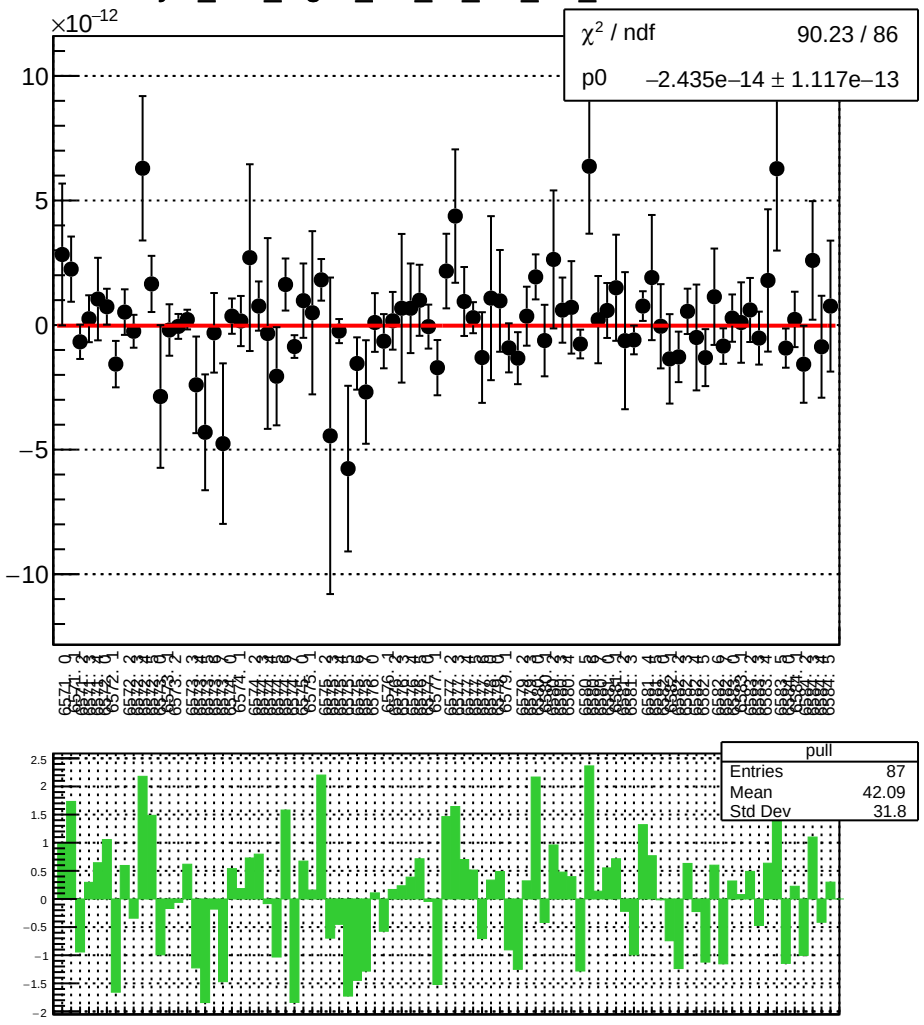

pull1D
Entries 87
Mean 0.03373
Std Dev 1.023

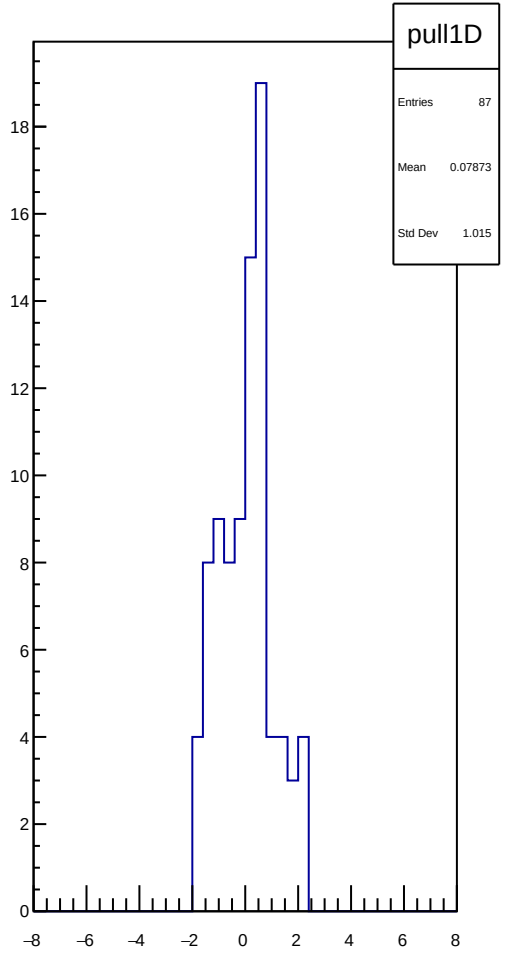

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.927e+04 / 86
p0 858.4 ± 0.6708
1400
1200
1000
800
600

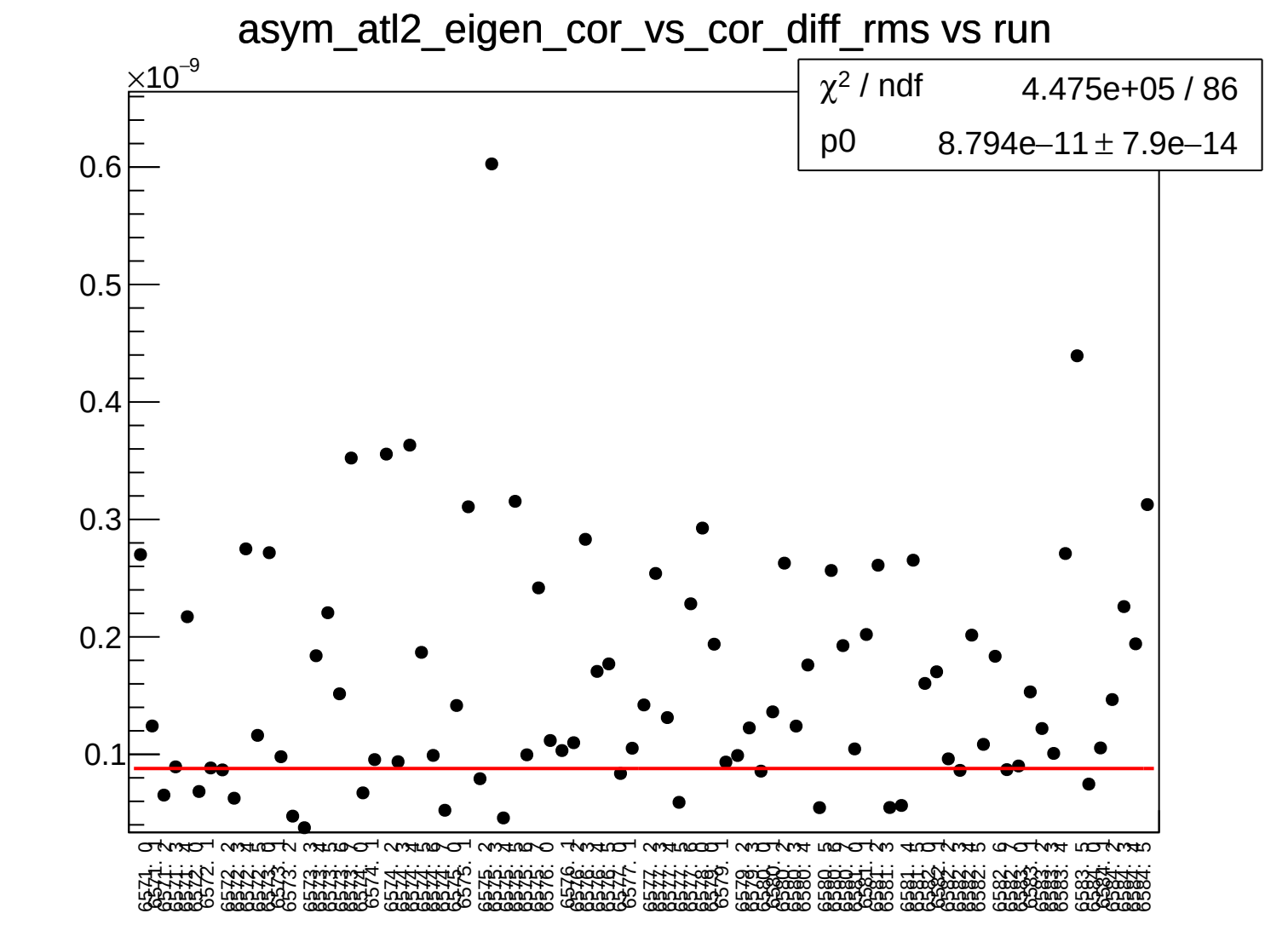

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.19 / 86
p0 0.3792 ± 0.9487
pull
Entries 87
Mean 132.9
Std Dev 0

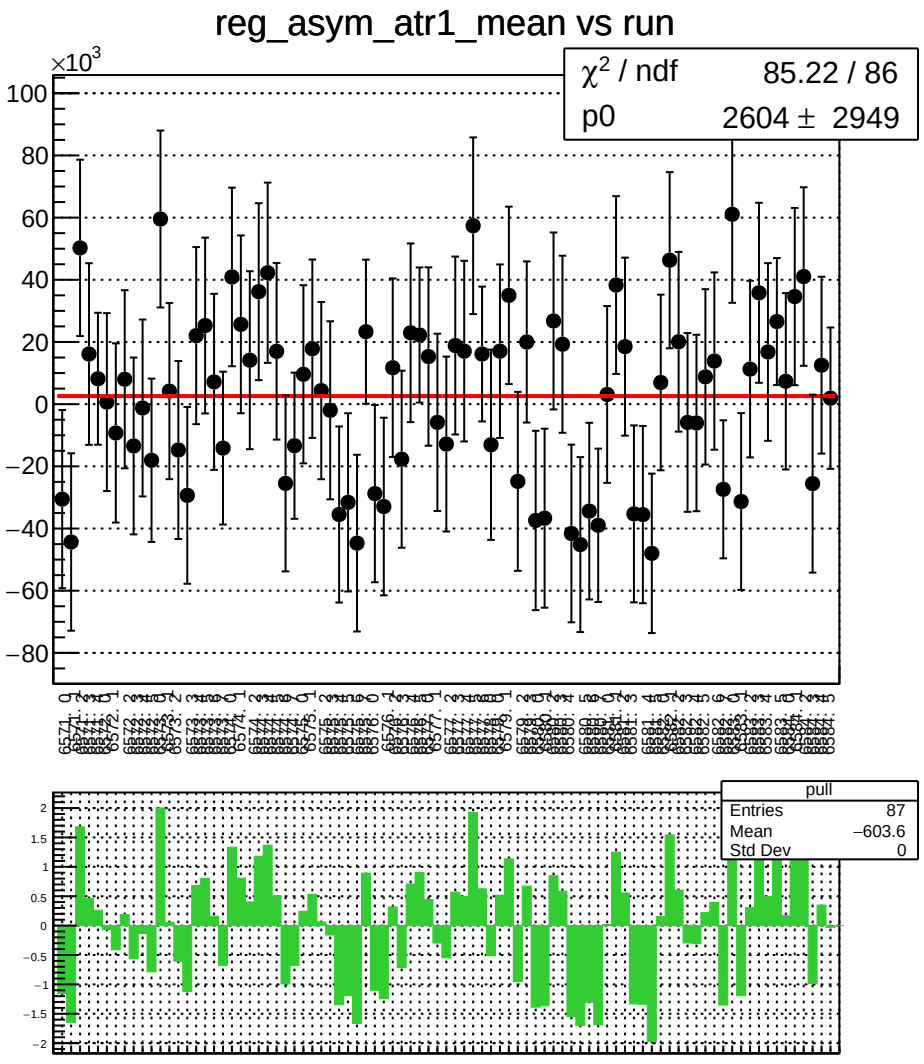

pull1D
Entries 87
Mean 0.03373
Std Dev 1.023

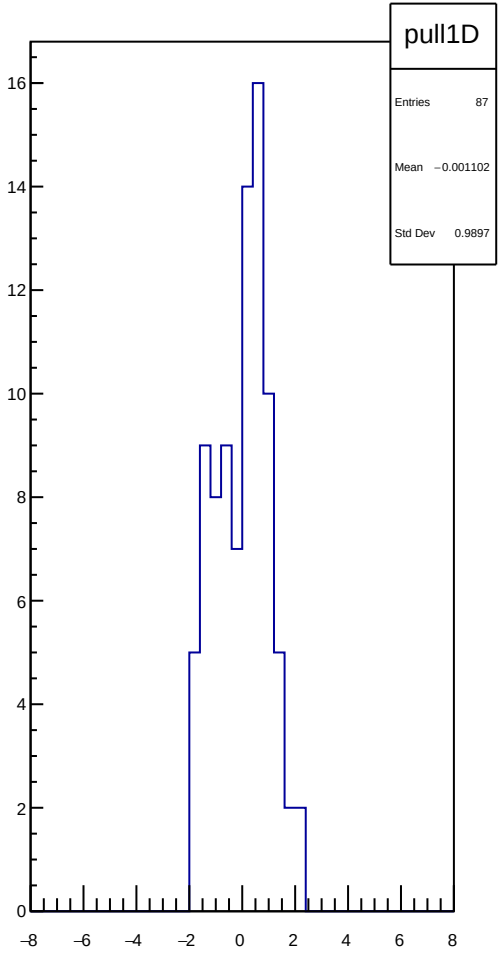

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.927e+04 / 86
p0 858.4 ± 0.6708
1400
1200
1000
800
600

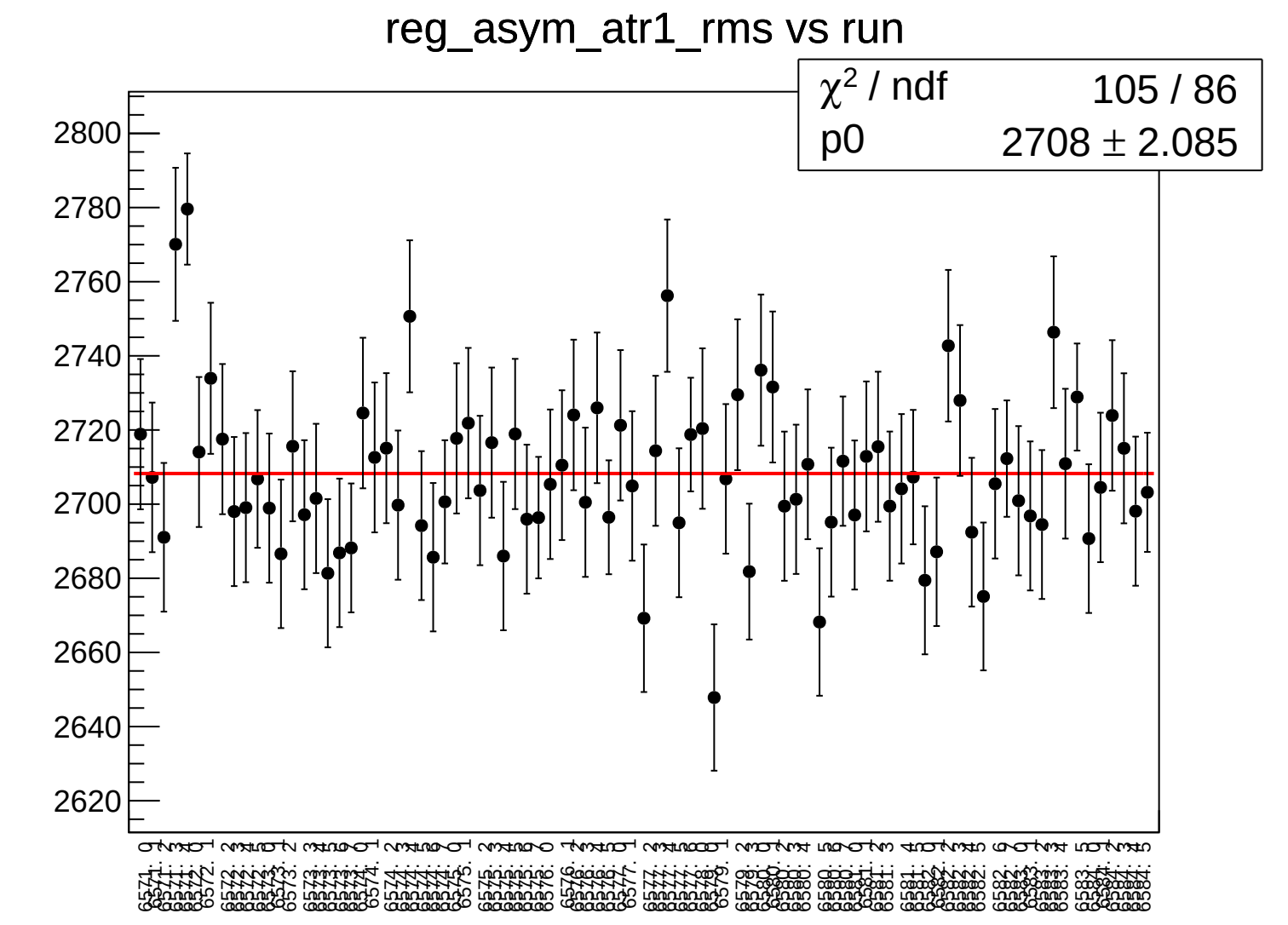

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.23 / 86
p0 −2.435e−14 ± 1.117e−13
pull
Entries 87
Mean 42.09
Std Dev 31.8

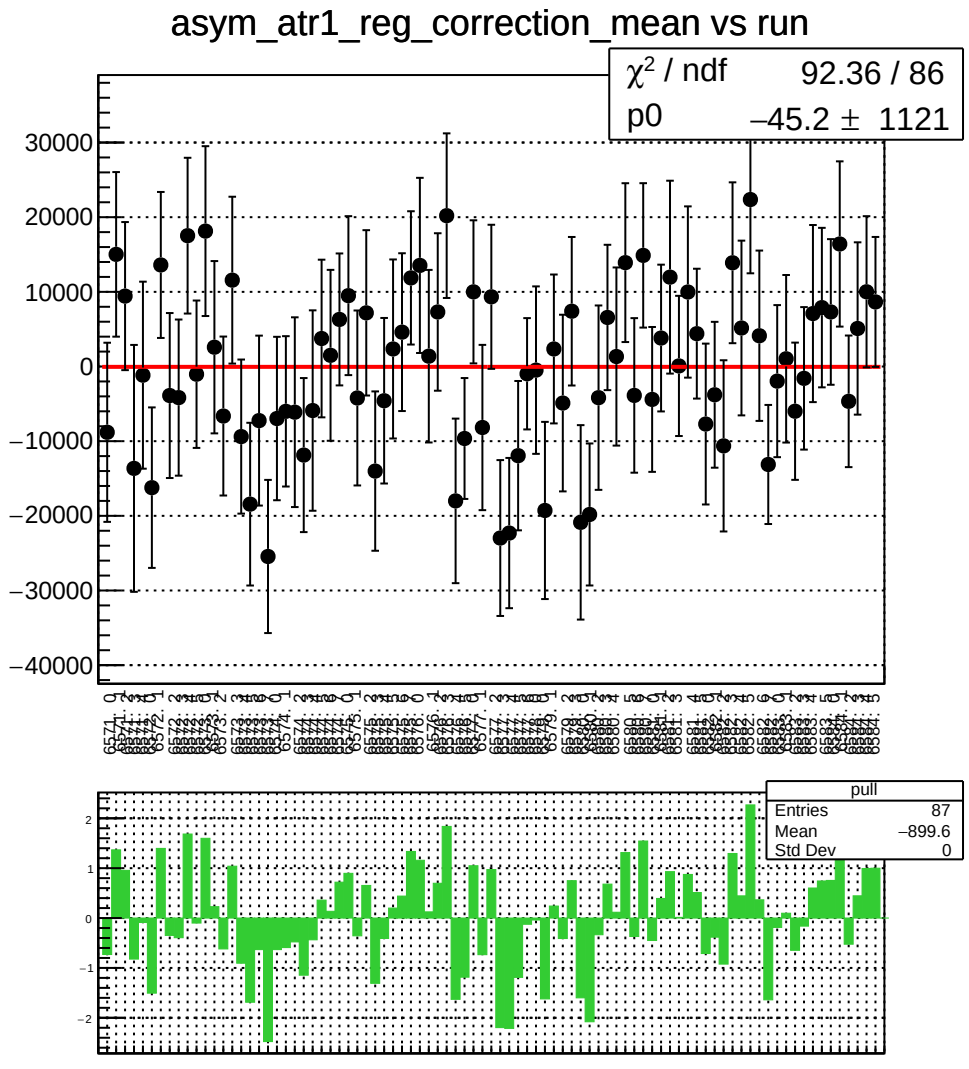

pull1D
Entries 87
Mean 0.07873
Std Dev 1.015

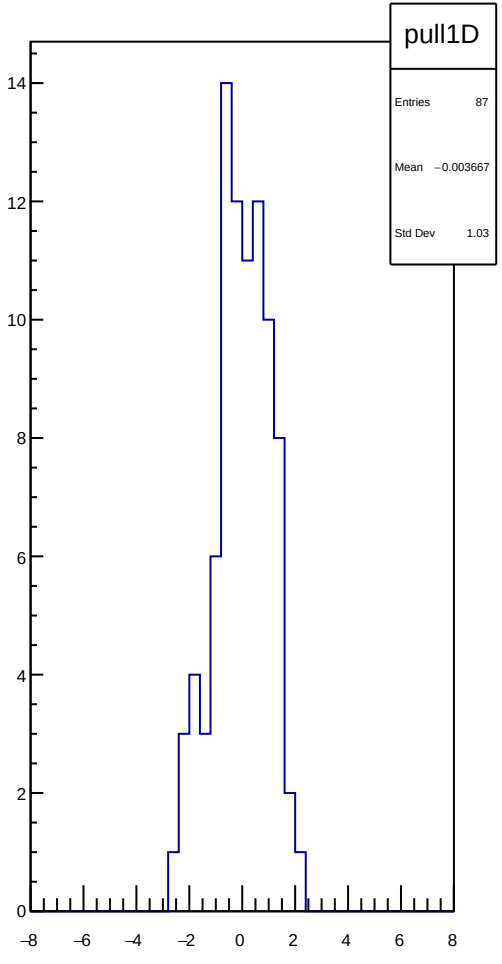

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.475e+05 / 86
p0 8.794e−11 ± 7.9e−14
0.6
0.5
0.4
0.3
0.2
0.1

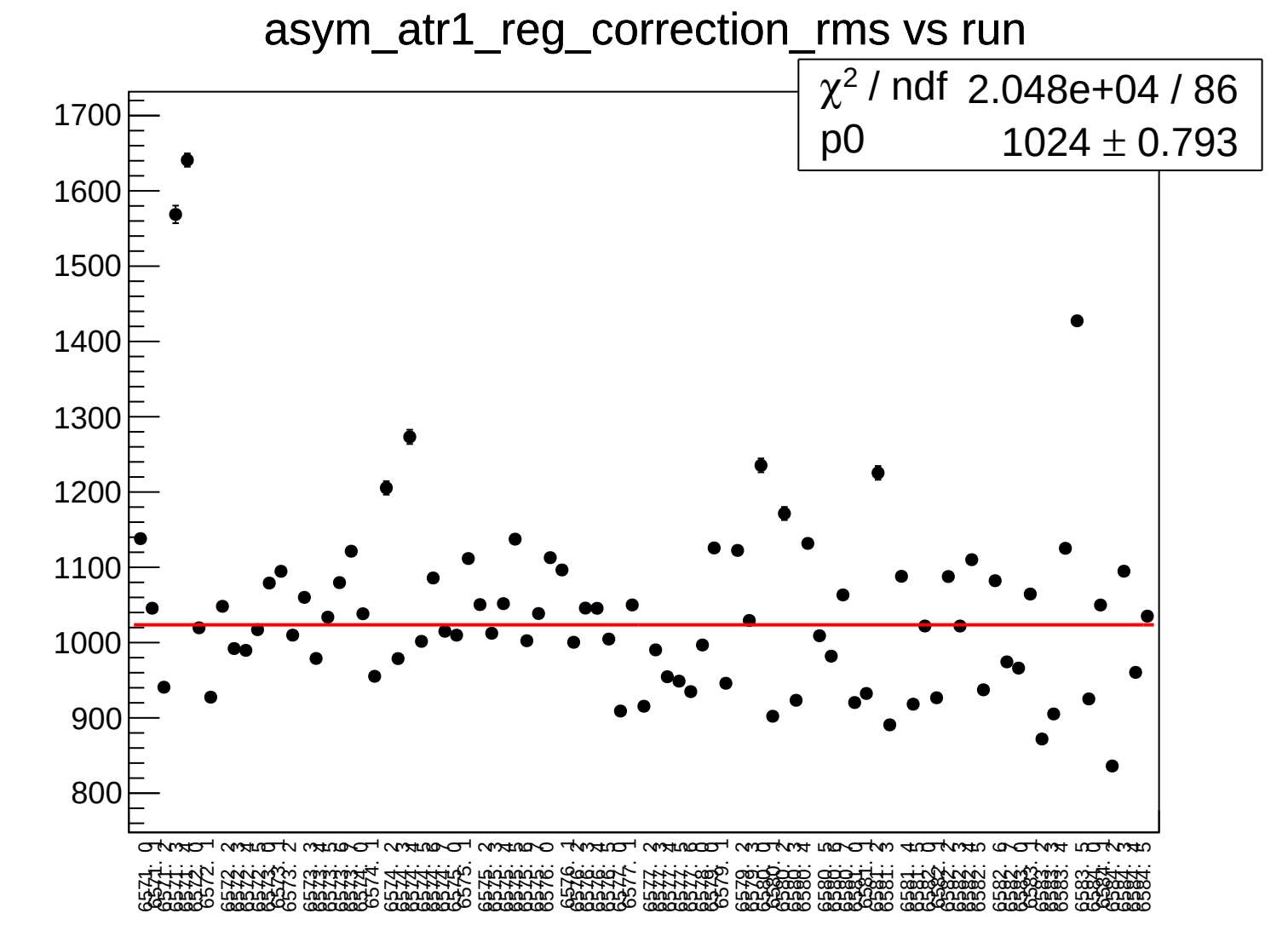

reg_asym_atr1_mean vs run
χ² / ndf 85.22 / 86
p0 2604 ± 2949
pull
Entries 87
Mean −603.6
Std Dev 0

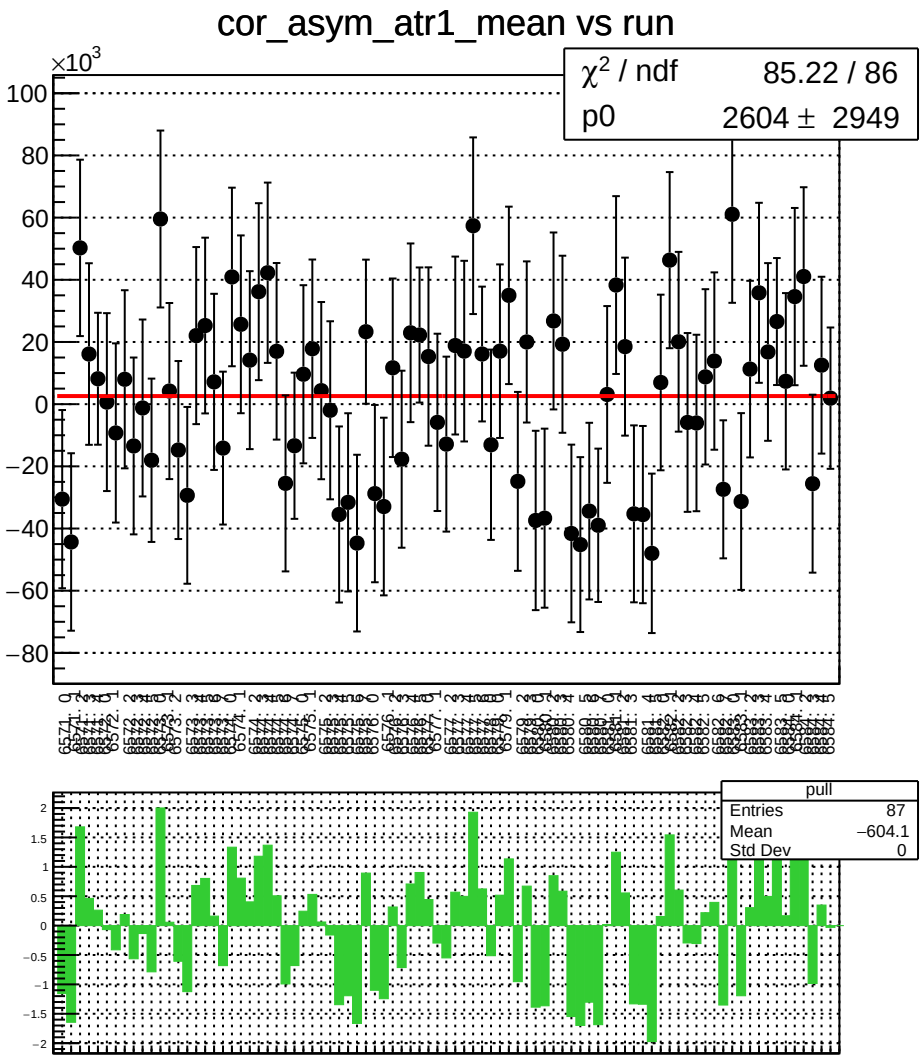

pull1D
Entries 87
Mean −0.001102
Std Dev 0.9897

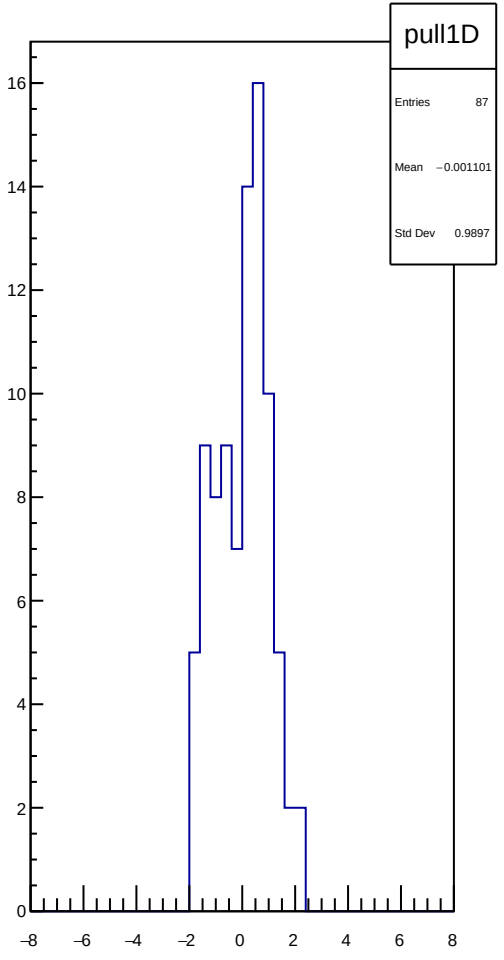

reg_asym_atr1_rms vs run
χ² / ndf 105 / 86
p0 2708 ± 2.085
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620

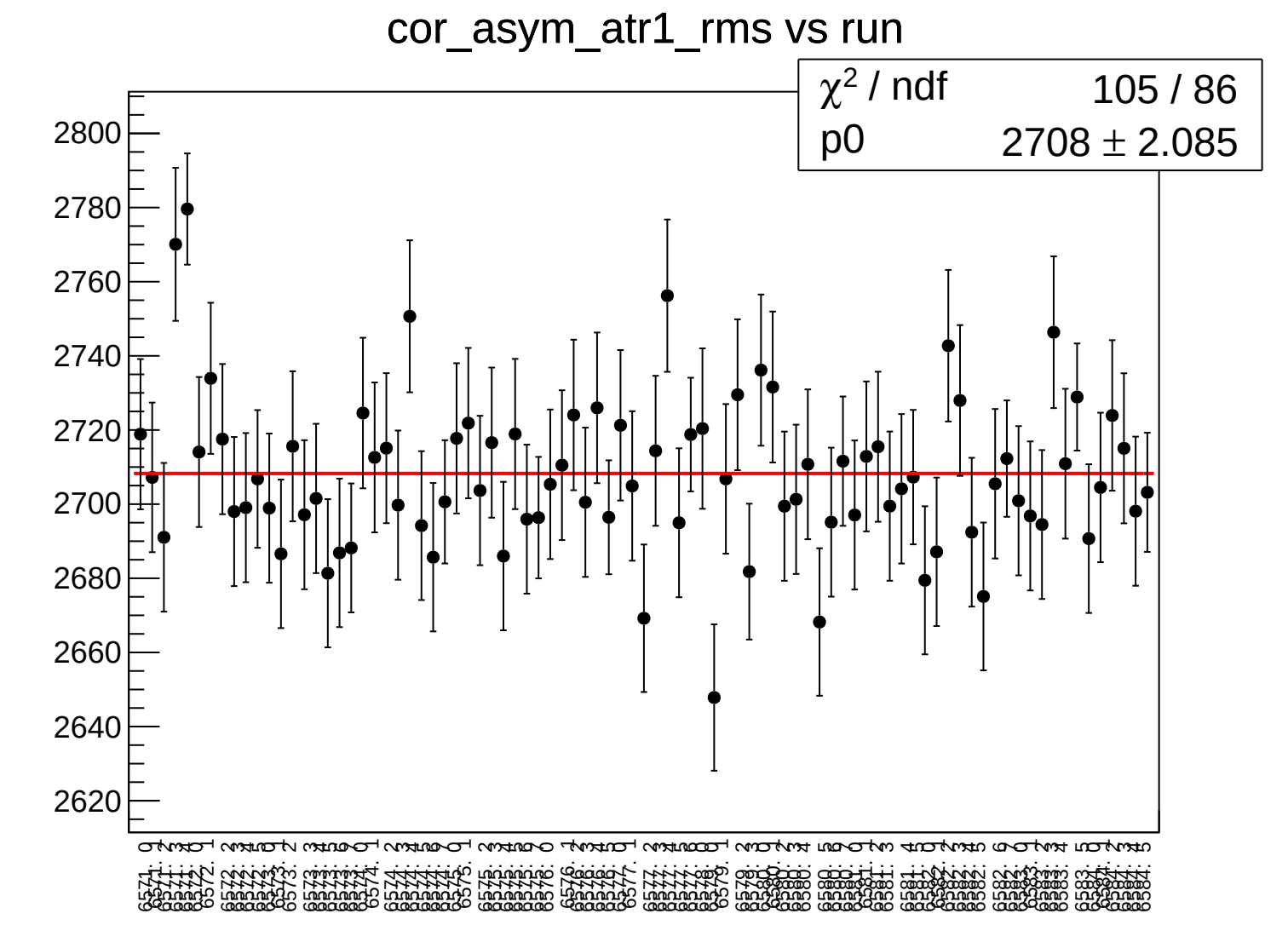

asym_atr1_reg_correction_mean vs run
χ² / ndf 92.36 / 86
p0 −45.2 ± 1121
pull
Entries 87
Mean −899.6
Std Dev 0

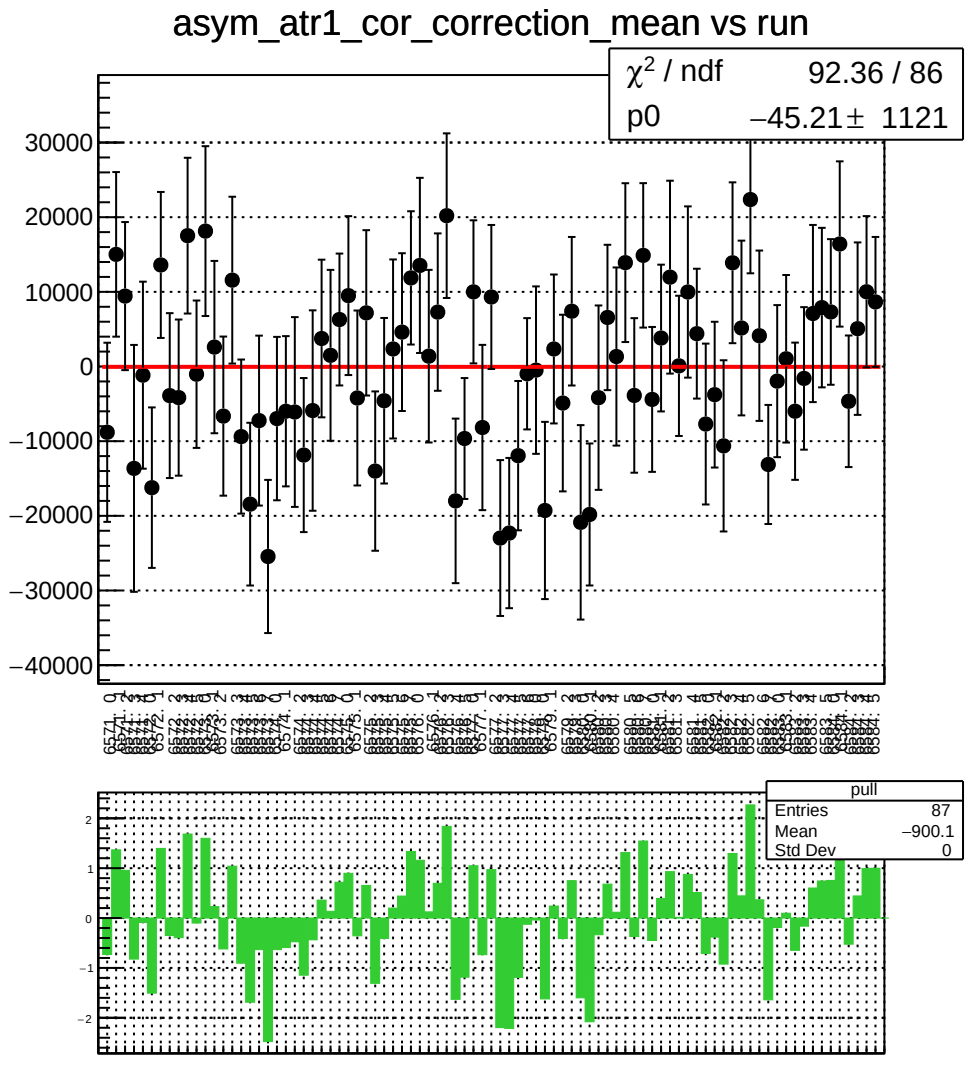

pull1D
Entries 87
Mean −0.003667
Std Dev 1.03

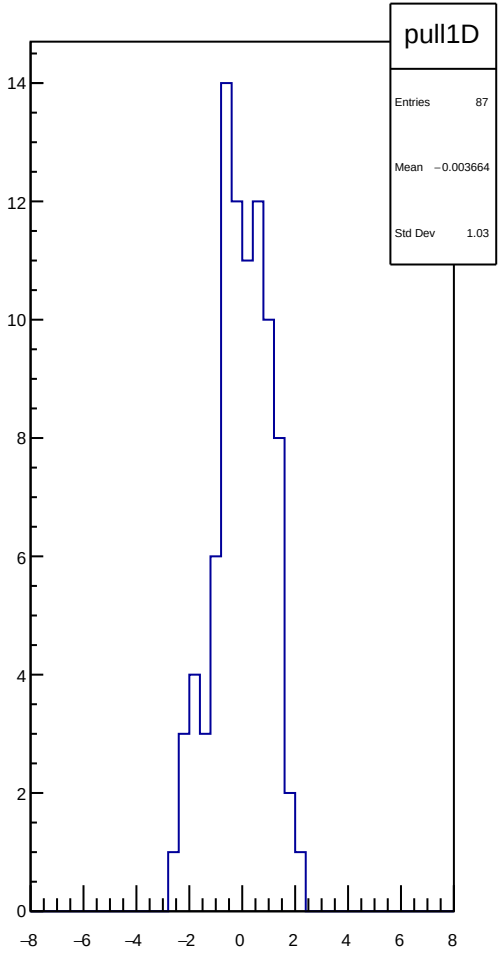

asym_atr1_reg_correction_rms vs run
χ² / ndf 2.048e+04 / 86
p0 1024 ± 0.793
1700
1600
1500
1400
1300
1200
1100
1000
900
800

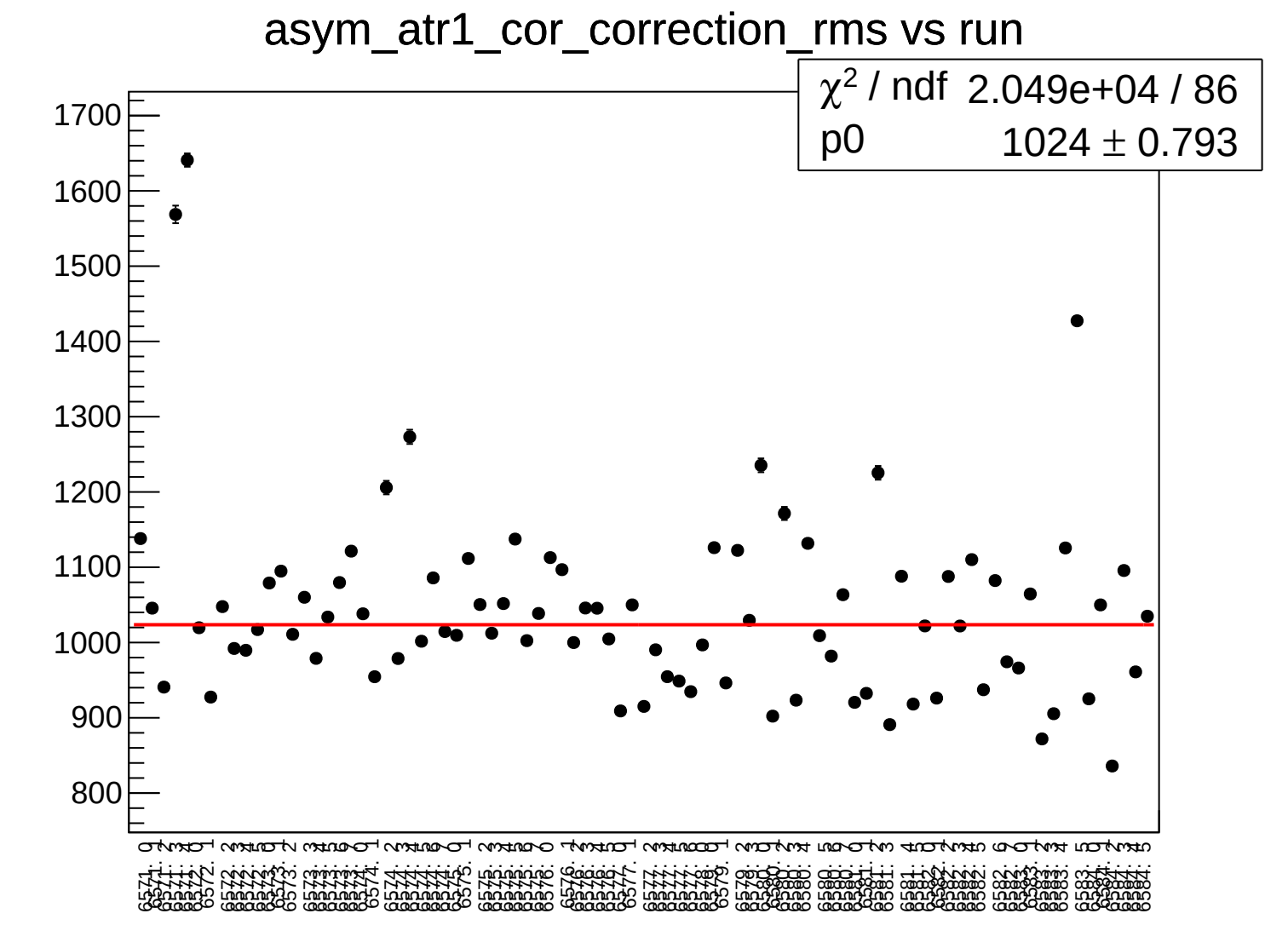

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 85.22 / 86
p0 2604 ± 2949
pull
Entries 87
Mean −604.1
Std Dev 0

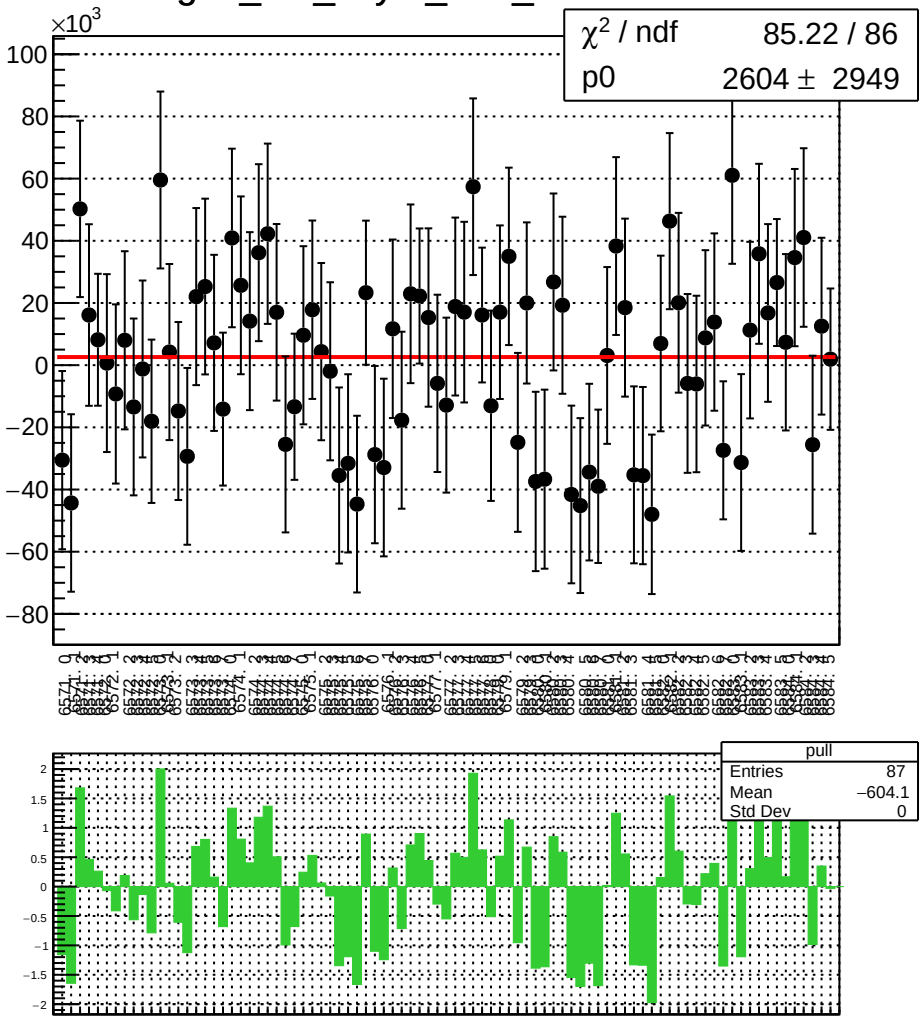

pull1D
Entries 87
Mean −0.001101
Std Dev 0.9897

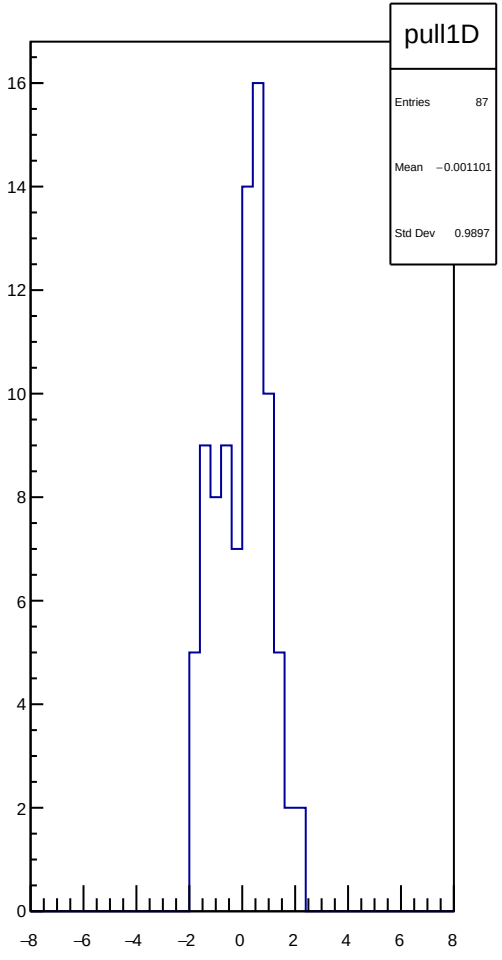

cor_asym_atr1_rms vs run
χ² / ndf 105 / 86
p0 2708 ± 2.085
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620

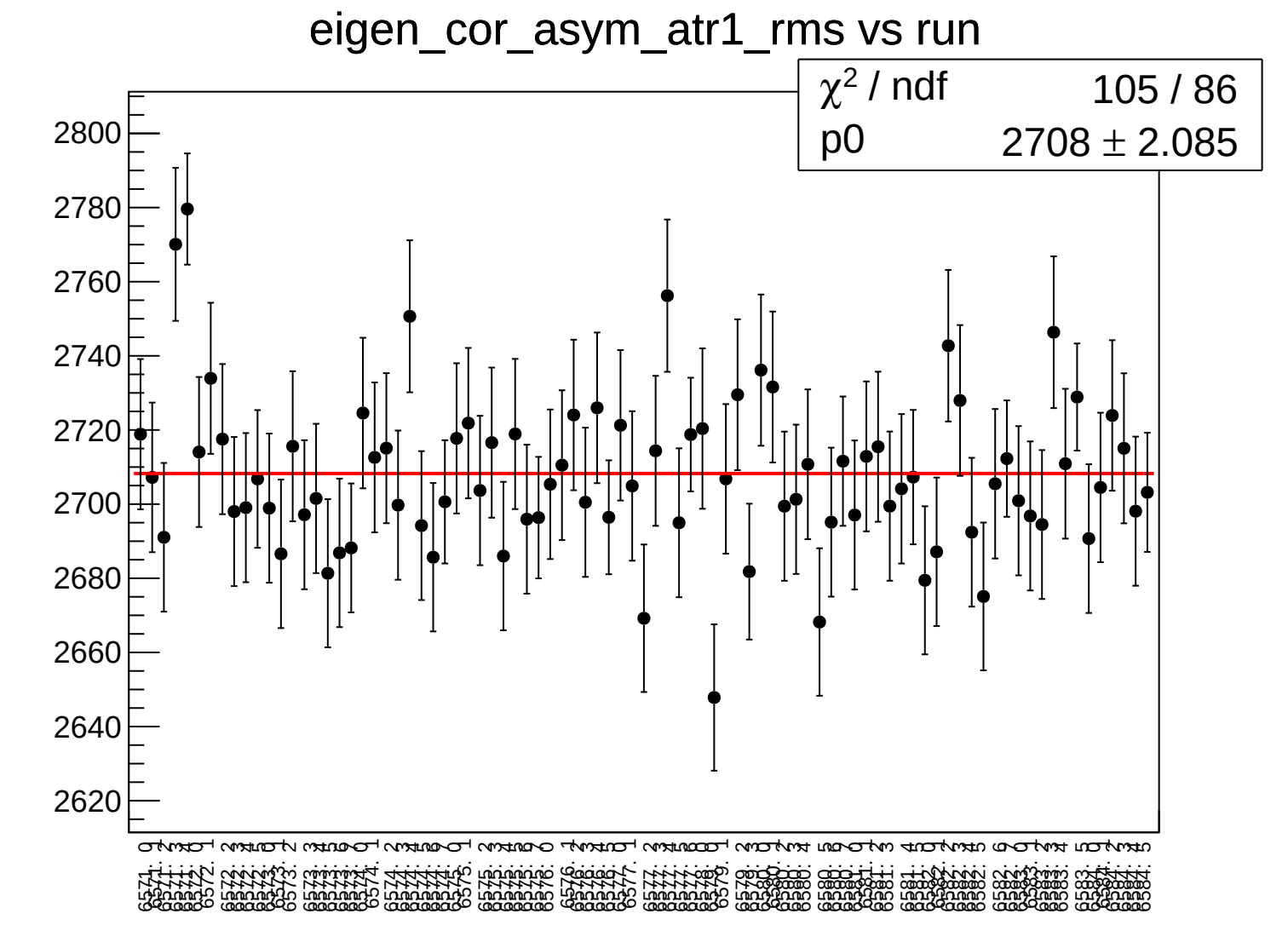

asym_atr1_cor_correction_mean vs run
χ² / ndf 92.36 / 86
p0 −45.21± 1121
pull
Entries 87
Mean −900.1
Std Dev 0

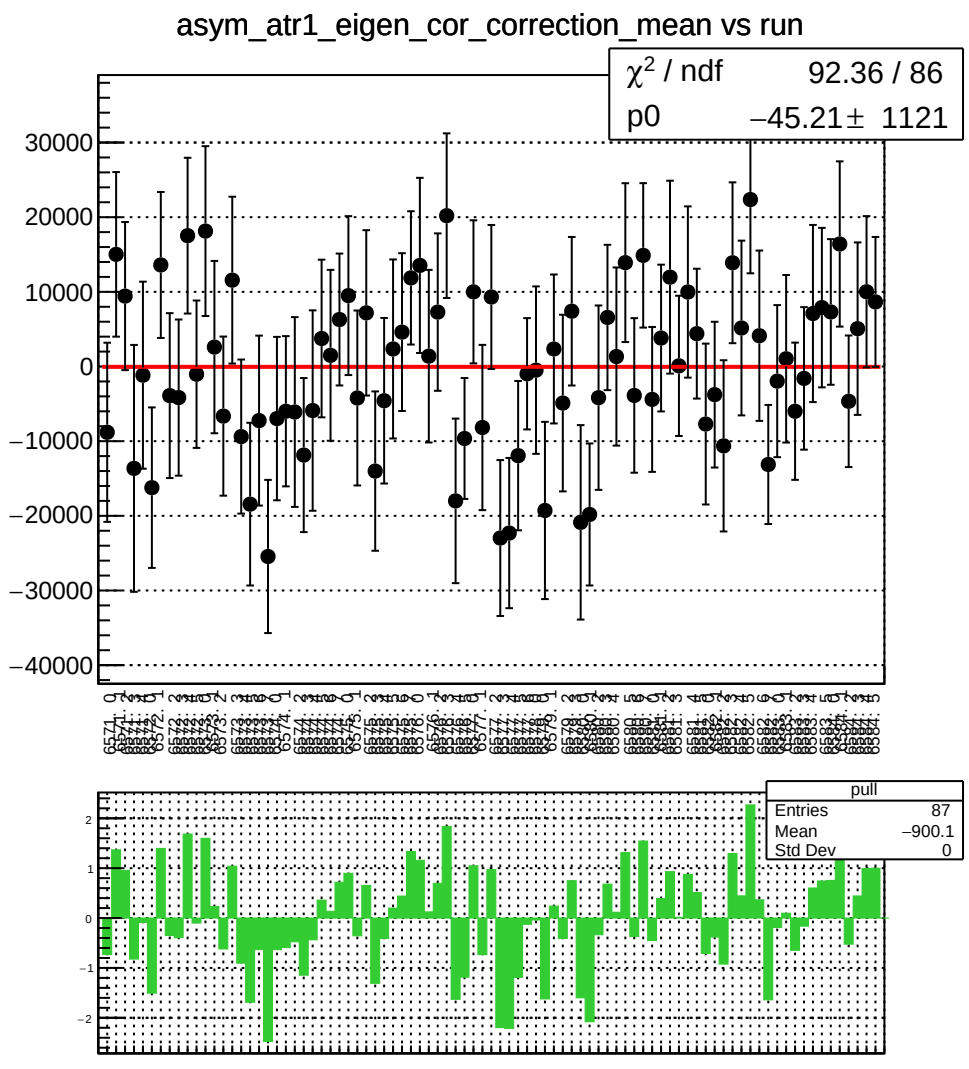

pull1D
Entries 87
Mean −0.003664
Std Dev 1.03

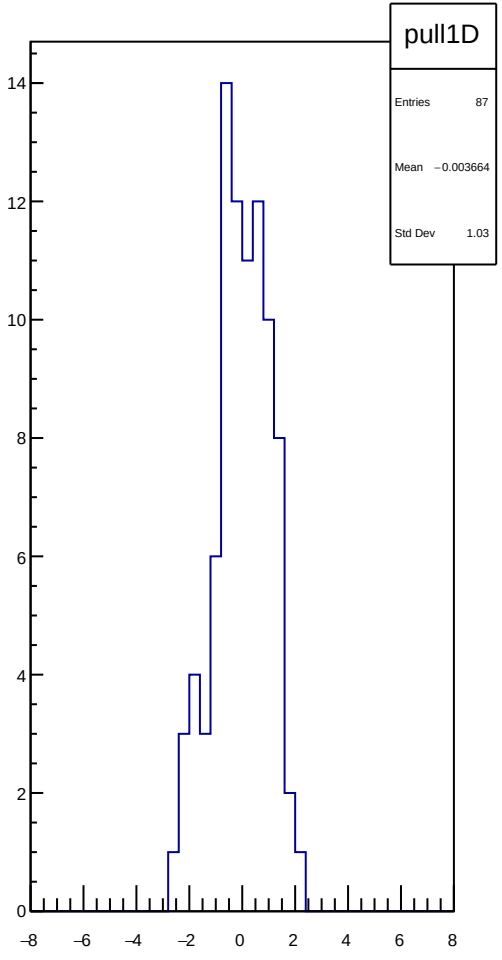

asym_atr1_cor_correction_rms vs run
χ² / ndf 2.049e+04 / 86
p0 1024 ± 0.793
1700
1600
1500
1400
1300
1200
1100
1000
900
800

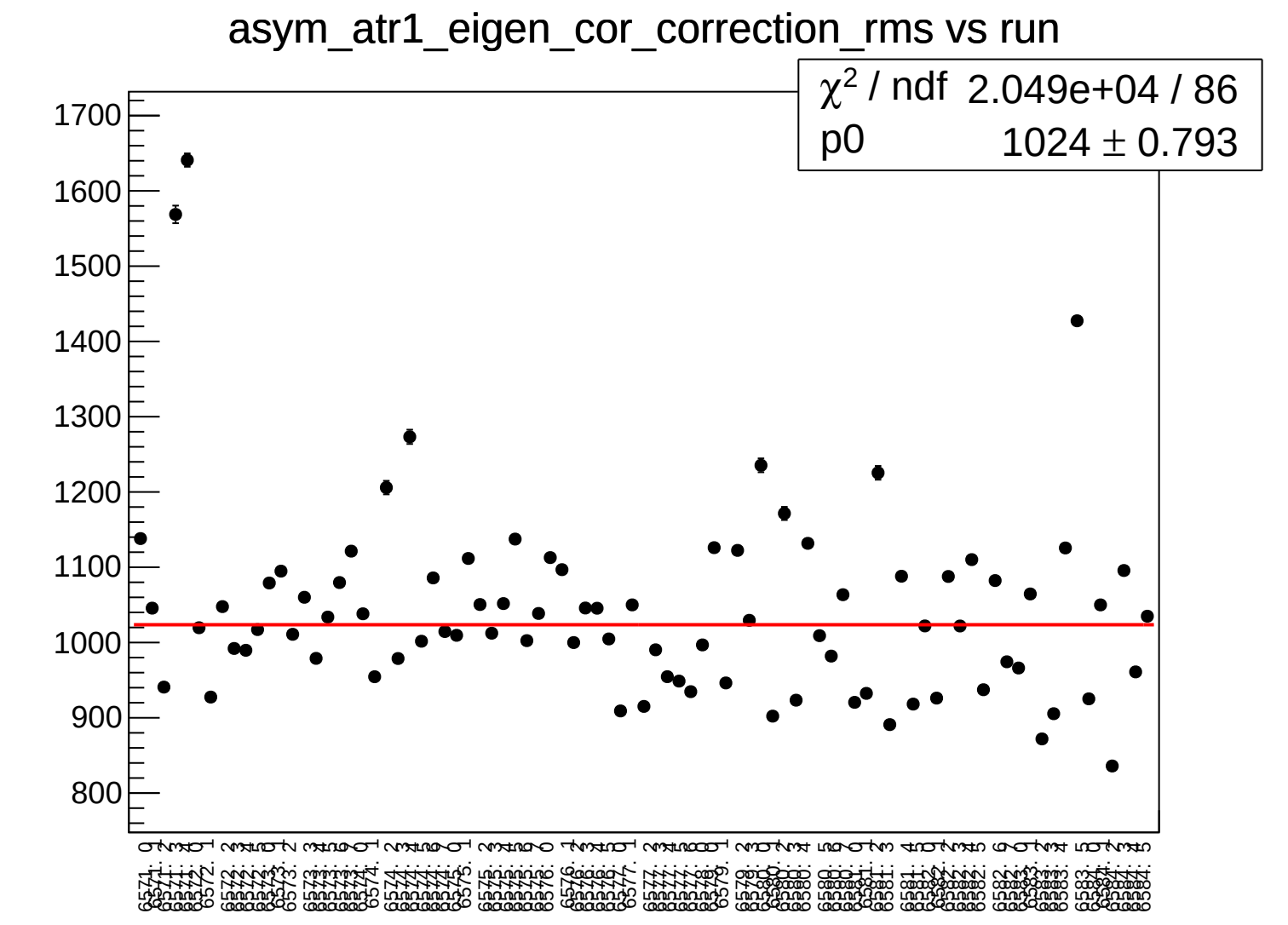

eigen_cor_asym_atr1_mean vs run
χ² / ndf 85.22 / 86
p0 2604 ± 2949
pull
Entries 87
Mean −604.1
Std Dev 0

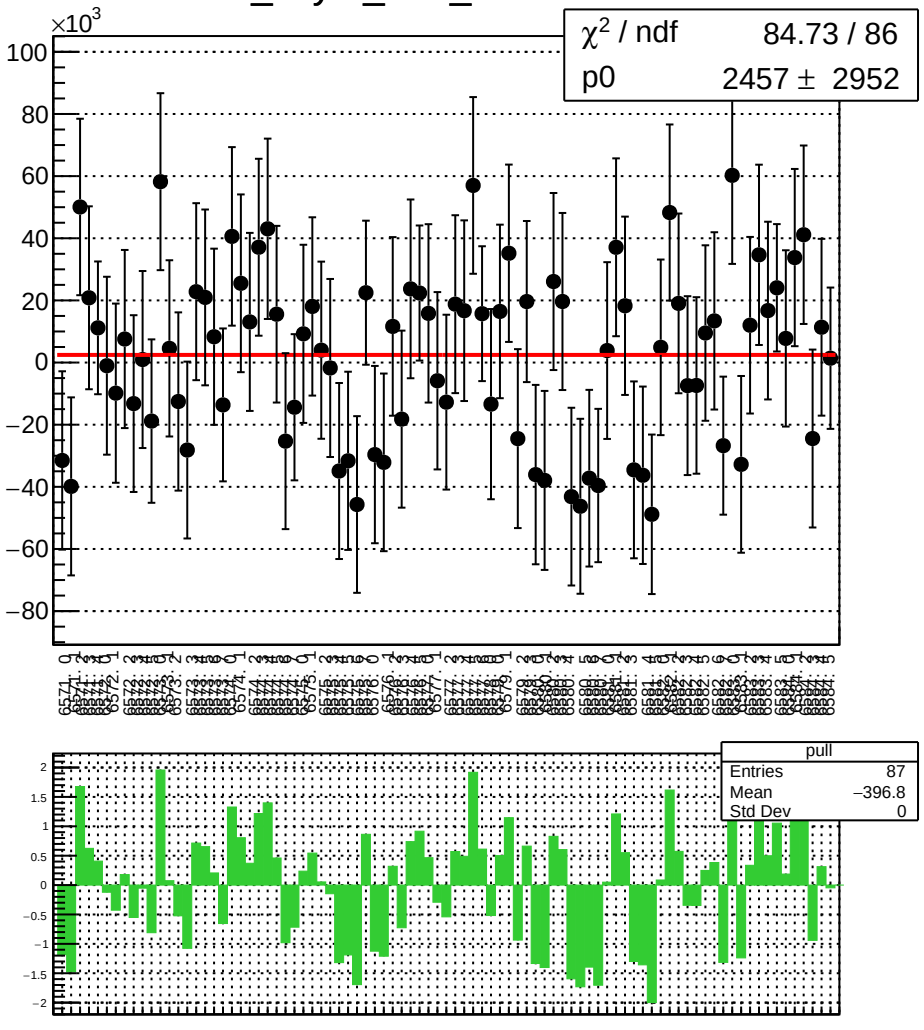

pull1D
Entries 87
Mean −0.001101
Std Dev 0.9897

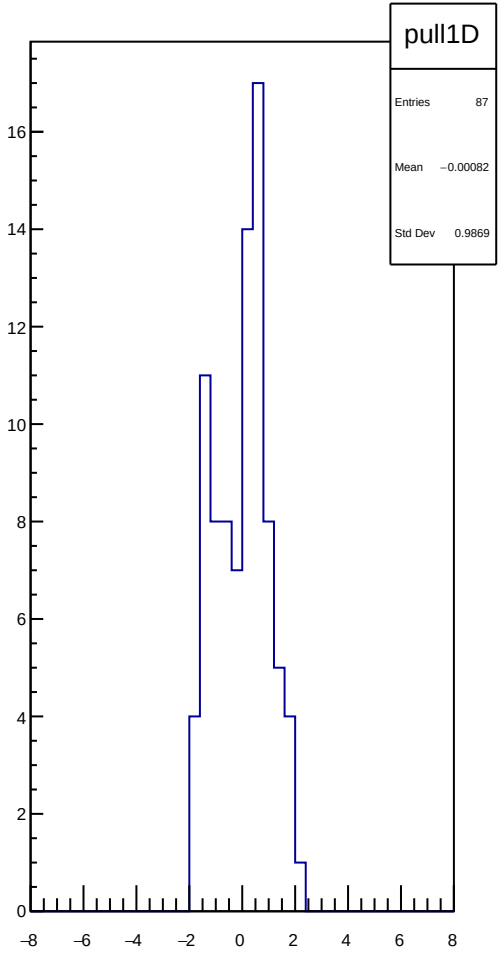

eigen_cor_asym_atr1_rms vs run
χ² / ndf 105 / 86
p0 2708 ± 2.085
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620

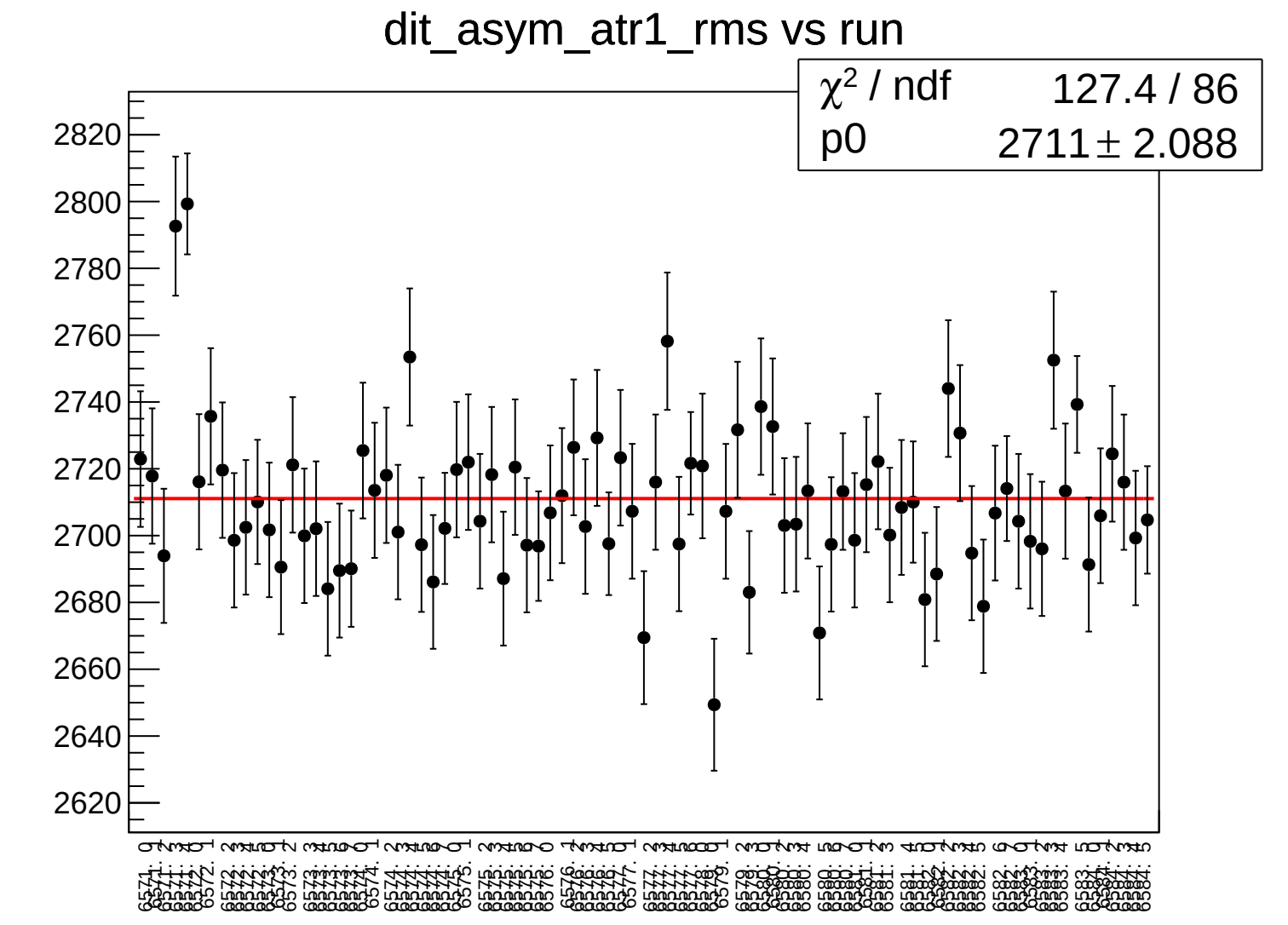

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 92.36 / 86
p0 −45.21± 1121
pull
Entries 87
Mean −900.1
Std Dev 0

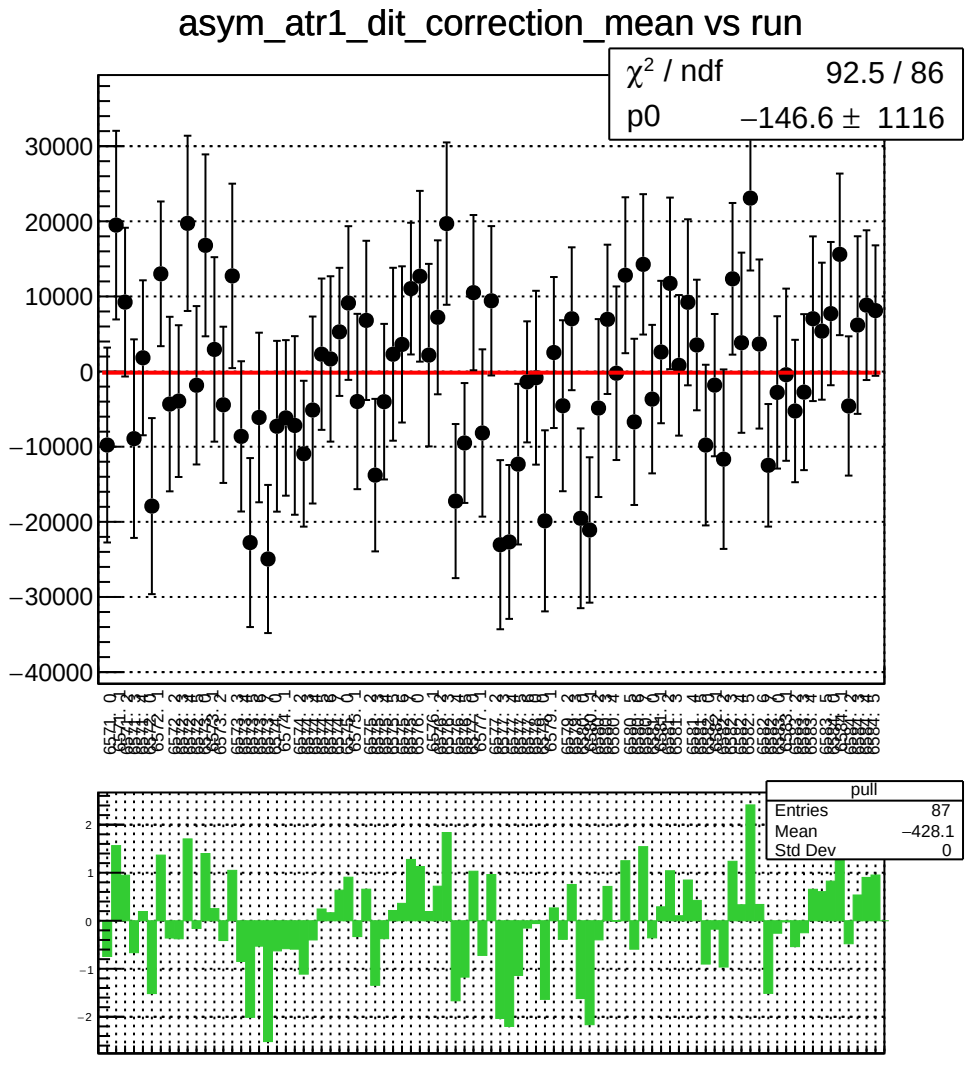

pull1D
Entries 87
Mean −0.003664
Std Dev 1.03

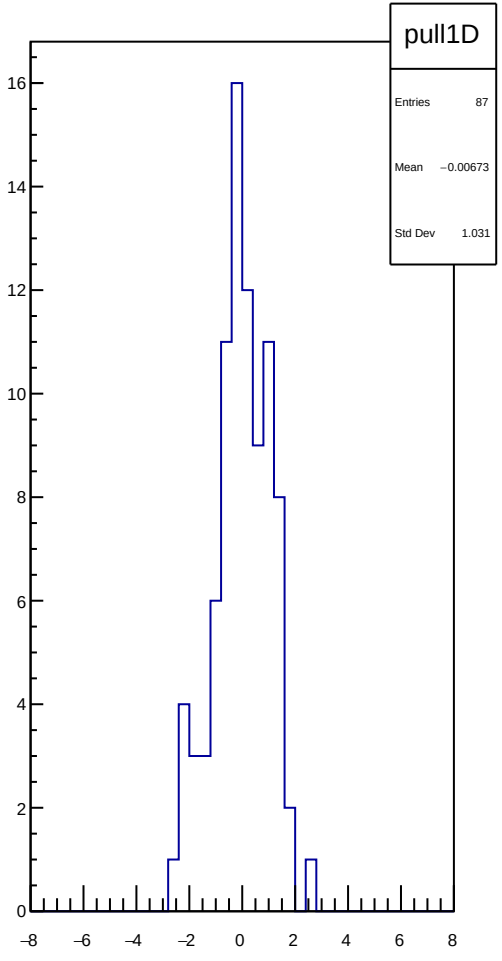

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2.049e+04 / 86
p0 1024 ± 0.793
1700
1600
1500
1400
1300
1200
1100
1000
900
800

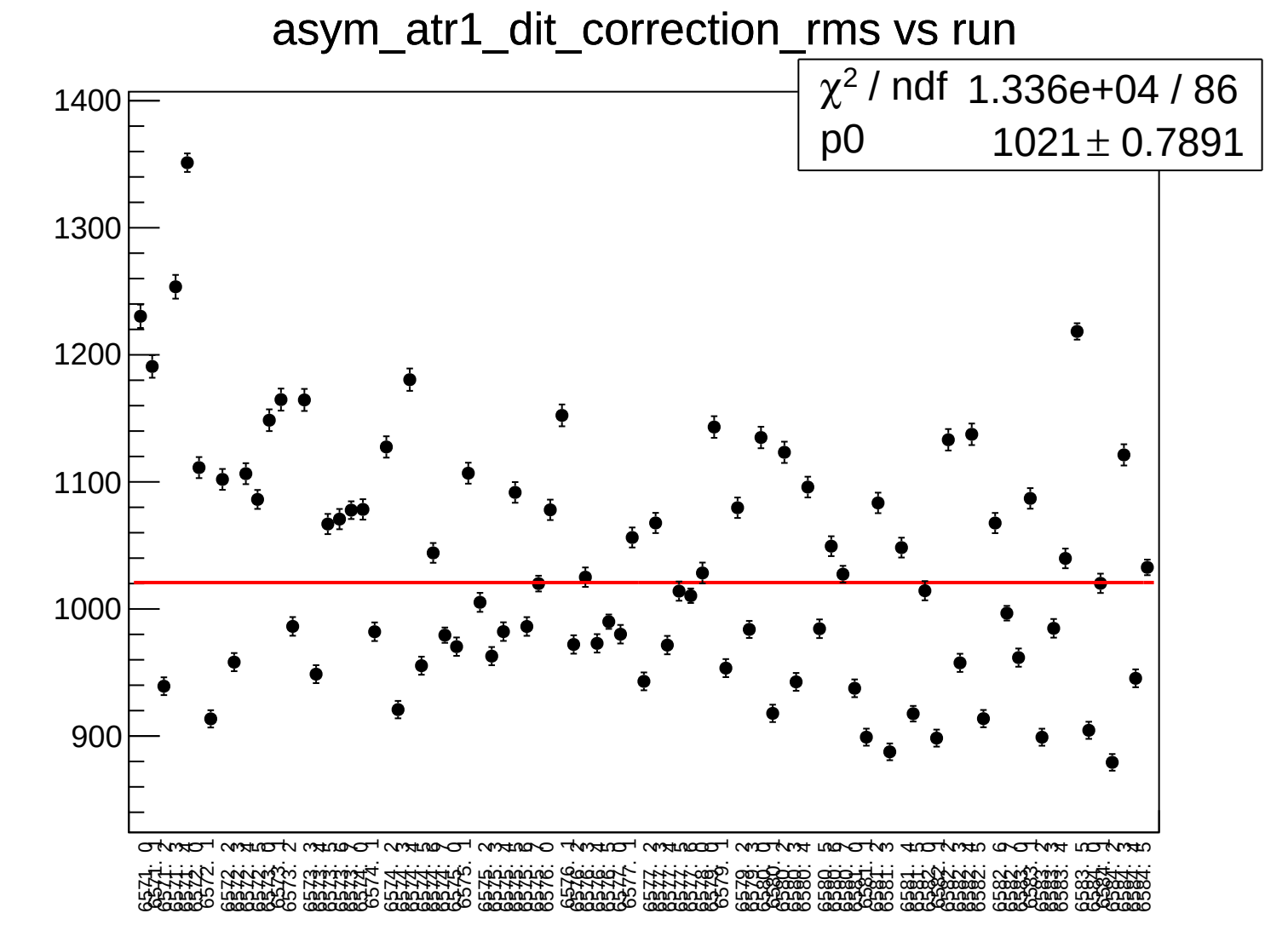

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 84.73 / 86
p0 2457 ± 2952
pull
Entries 87
Mean −396.8
Std Dev 0

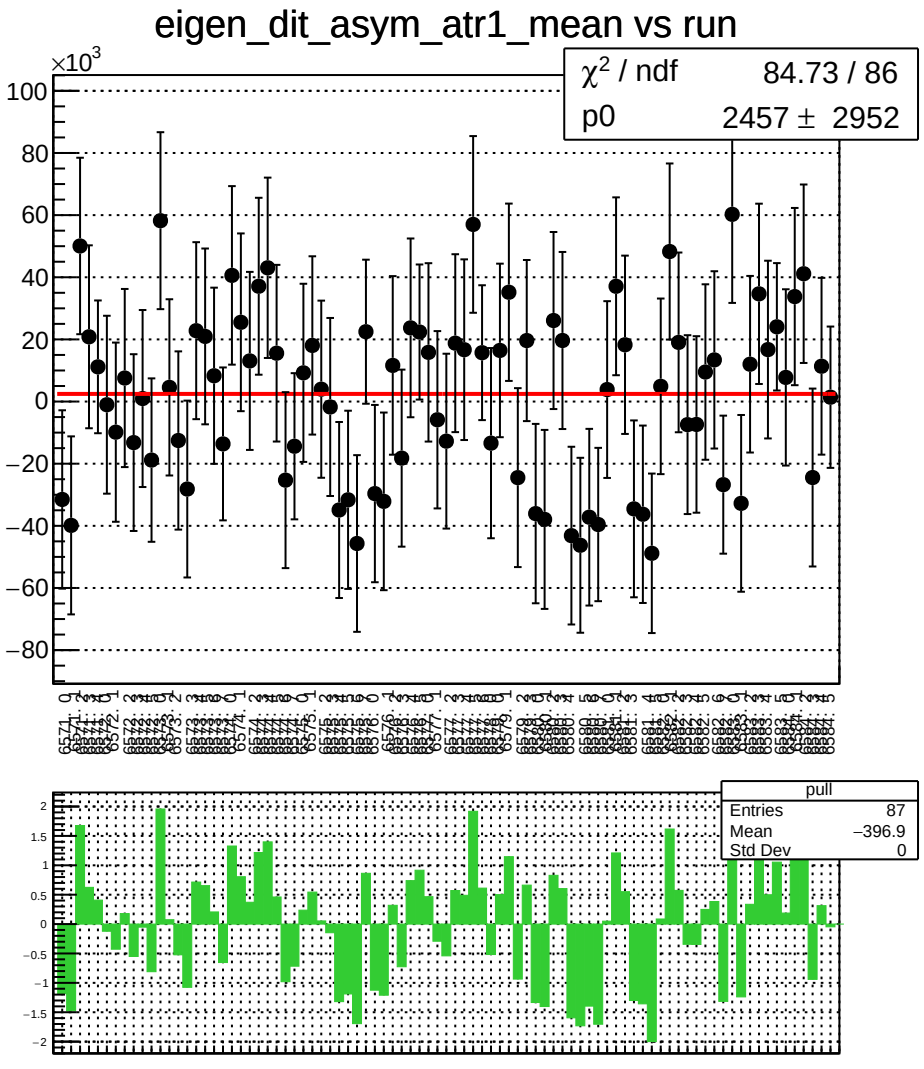

pull1D
Entries 87
Mean −0.00082
Std Dev 0.9869

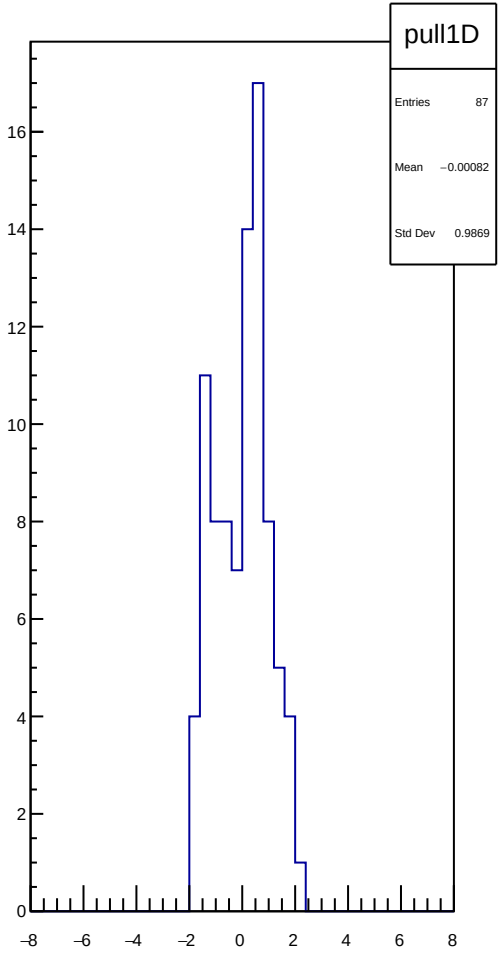

dit_asym_atr1_rms vs run
χ² / ndf 127.4 / 86
p0 2711 ± 2.088
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620

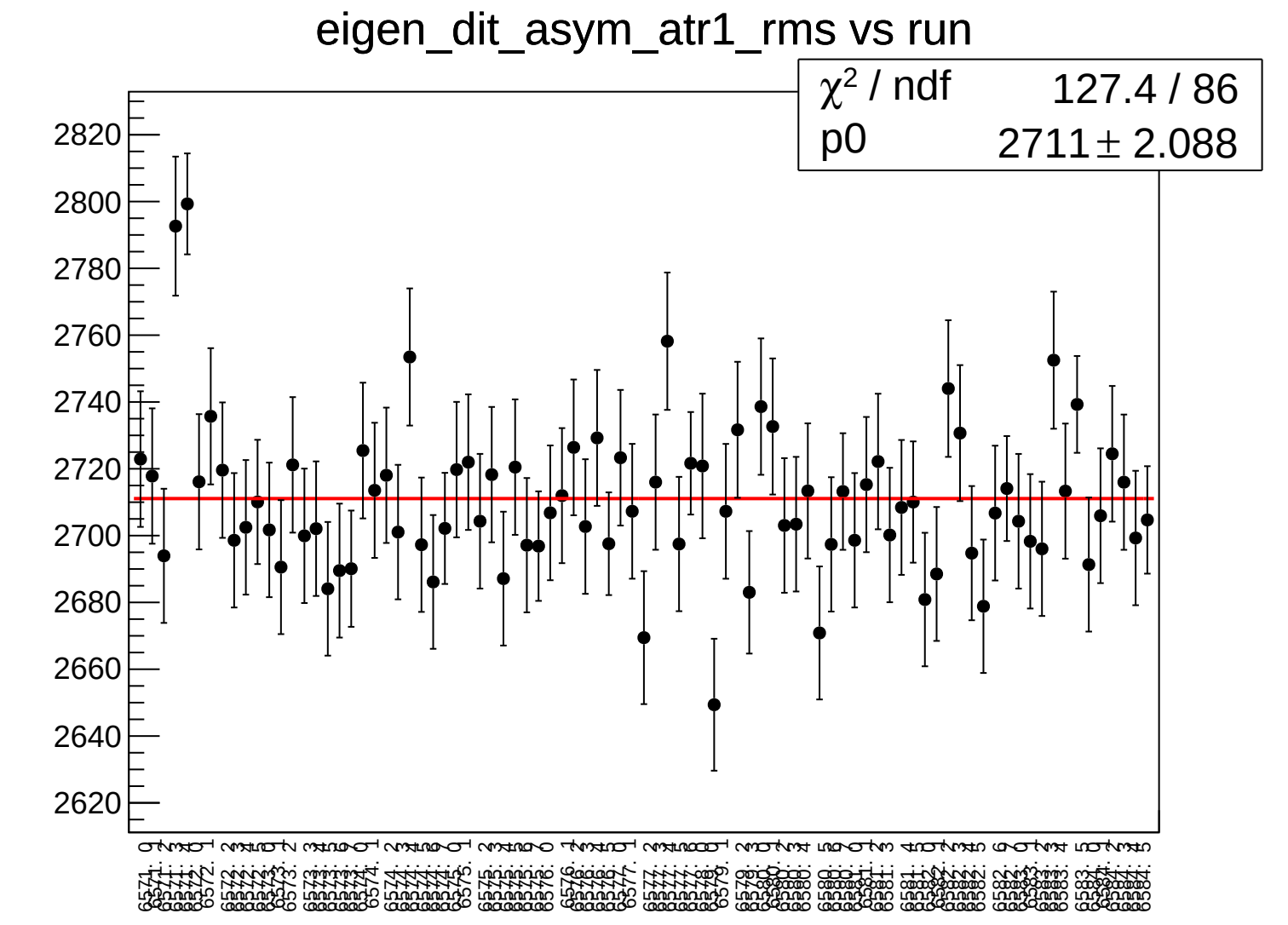

asym_atr1_dit_correction_mean vs run
χ² / ndf 92.5 / 86
p0 −146.6 ± 1116
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −428.1
Std Dev 0
2
1
0
−1
−2

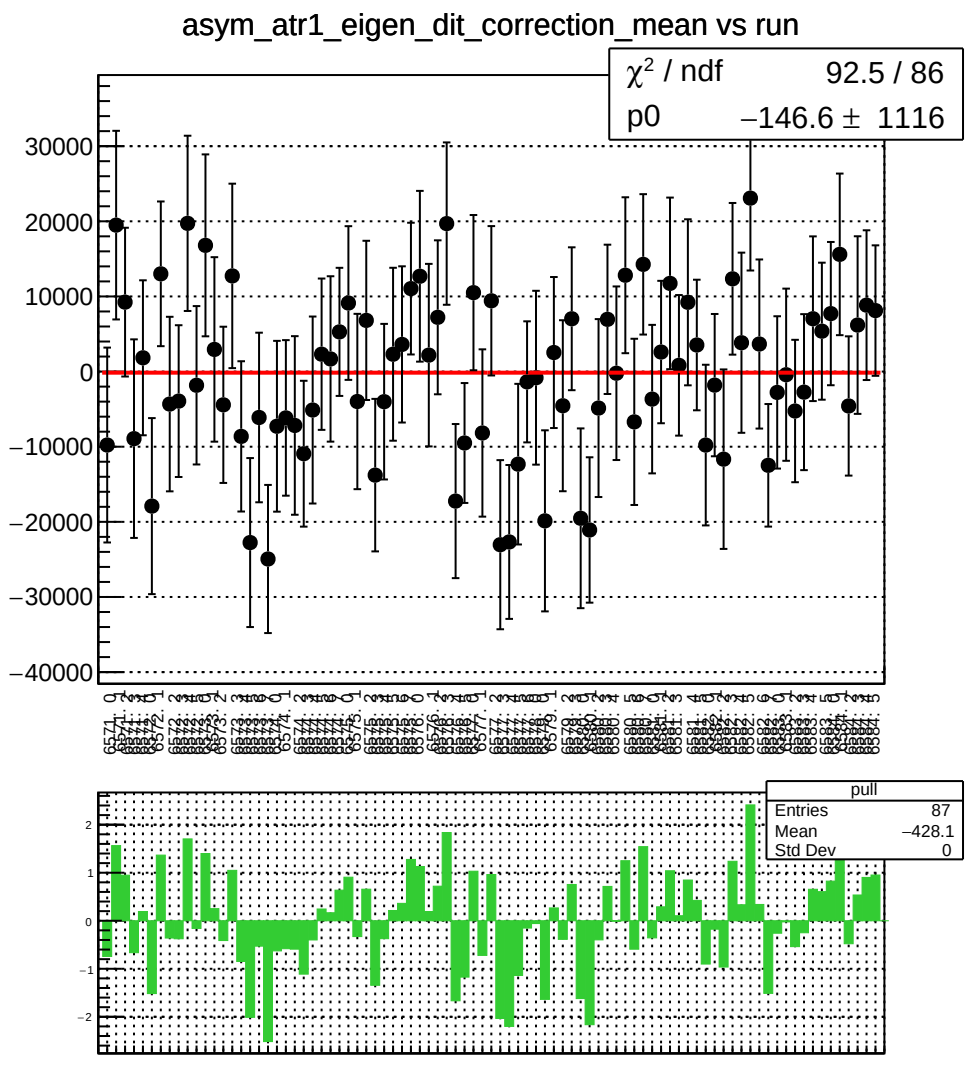

pull1D
Entries 87
Mean −0.00673
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

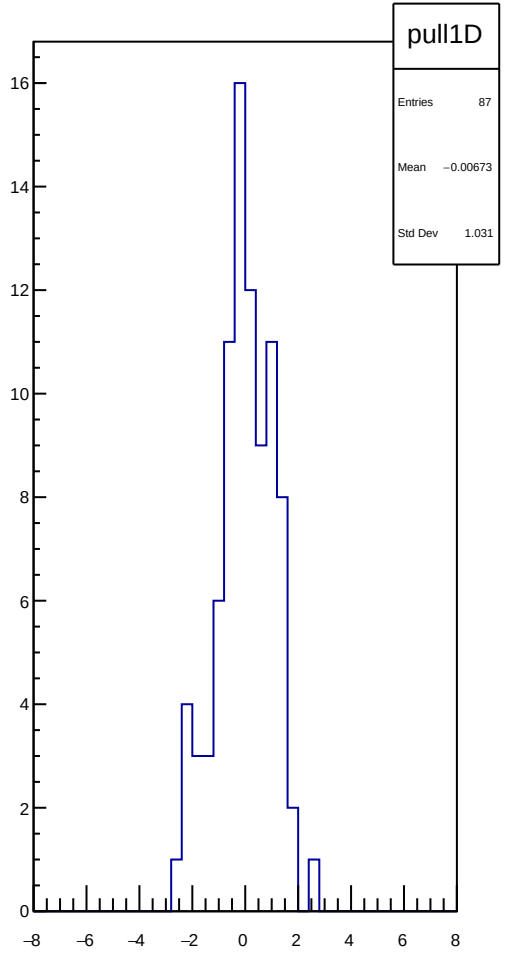

asym_atr1_dit_correction_rms vs run
χ² / ndf 1.336e+04 / 86
p0 1021 ± 0.7891
1400
1300
1200
1100
1000
900

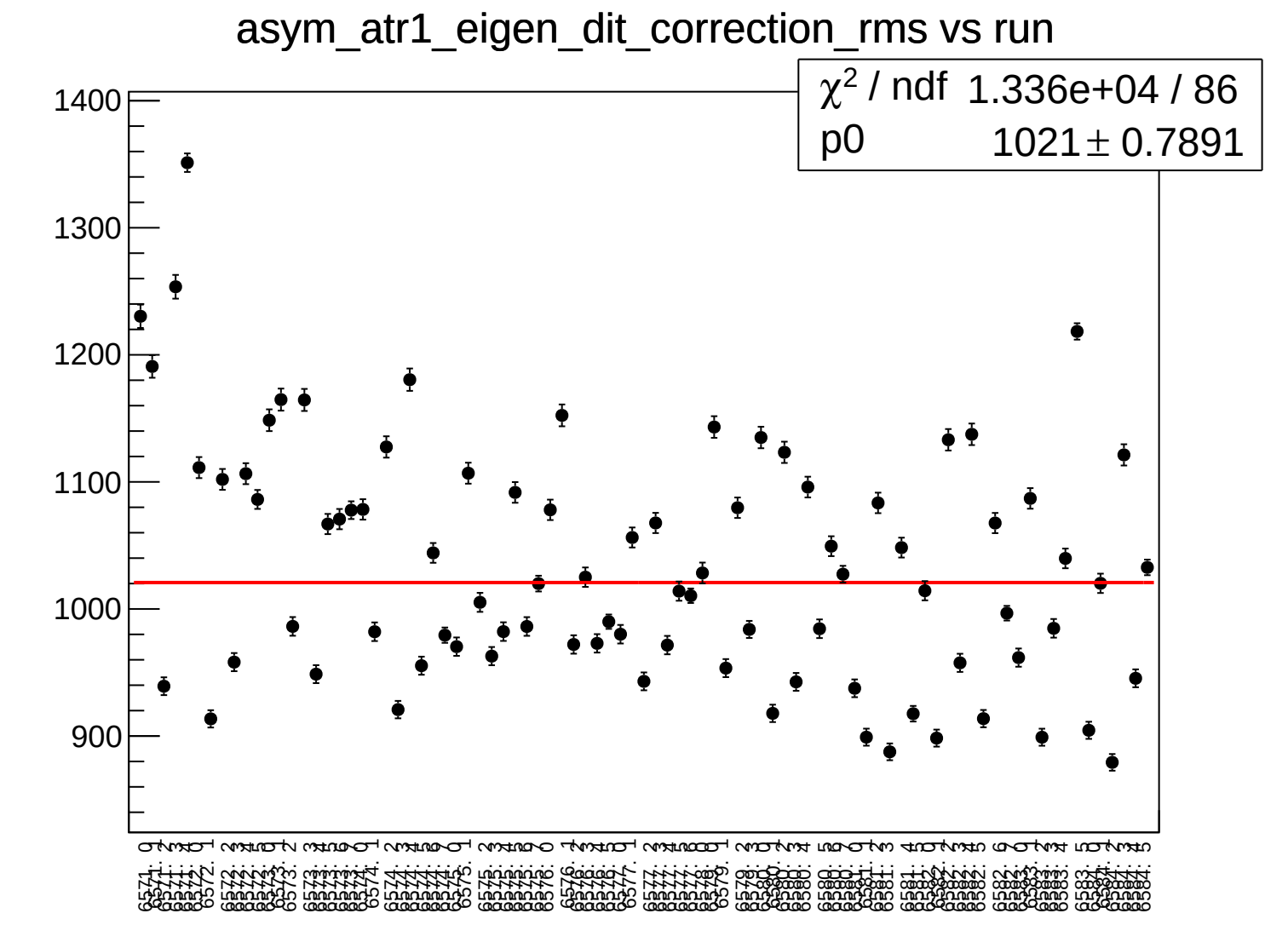

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 84.73 / 86
p0 2457 ± 2952
pull
Entries 87
Mean −396.9
Std Dev 0

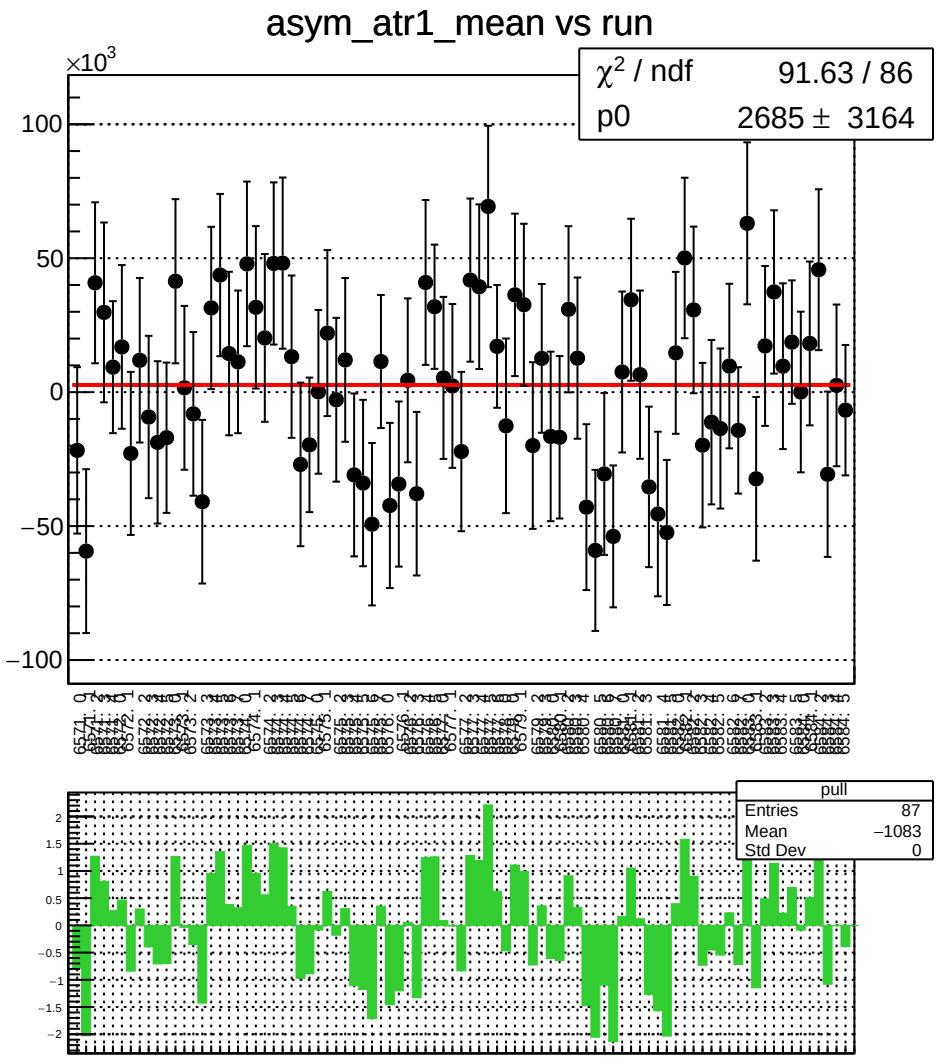

pull1D
Entries 87
Mean −0.00082
Std Dev 0.9869

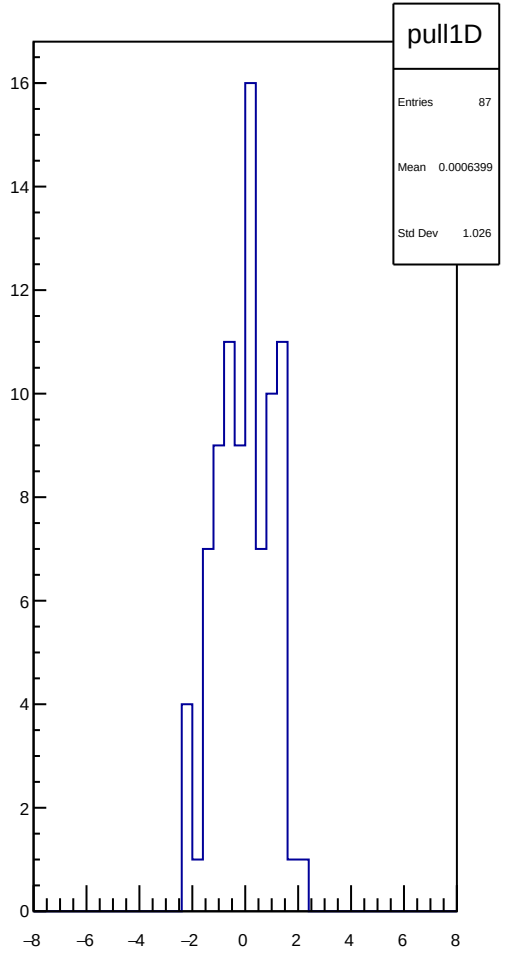

eigen_dit_asym_atr1_rms vs run
χ² / ndf 127.4 / 86
p0 2711 ± 2.088
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620

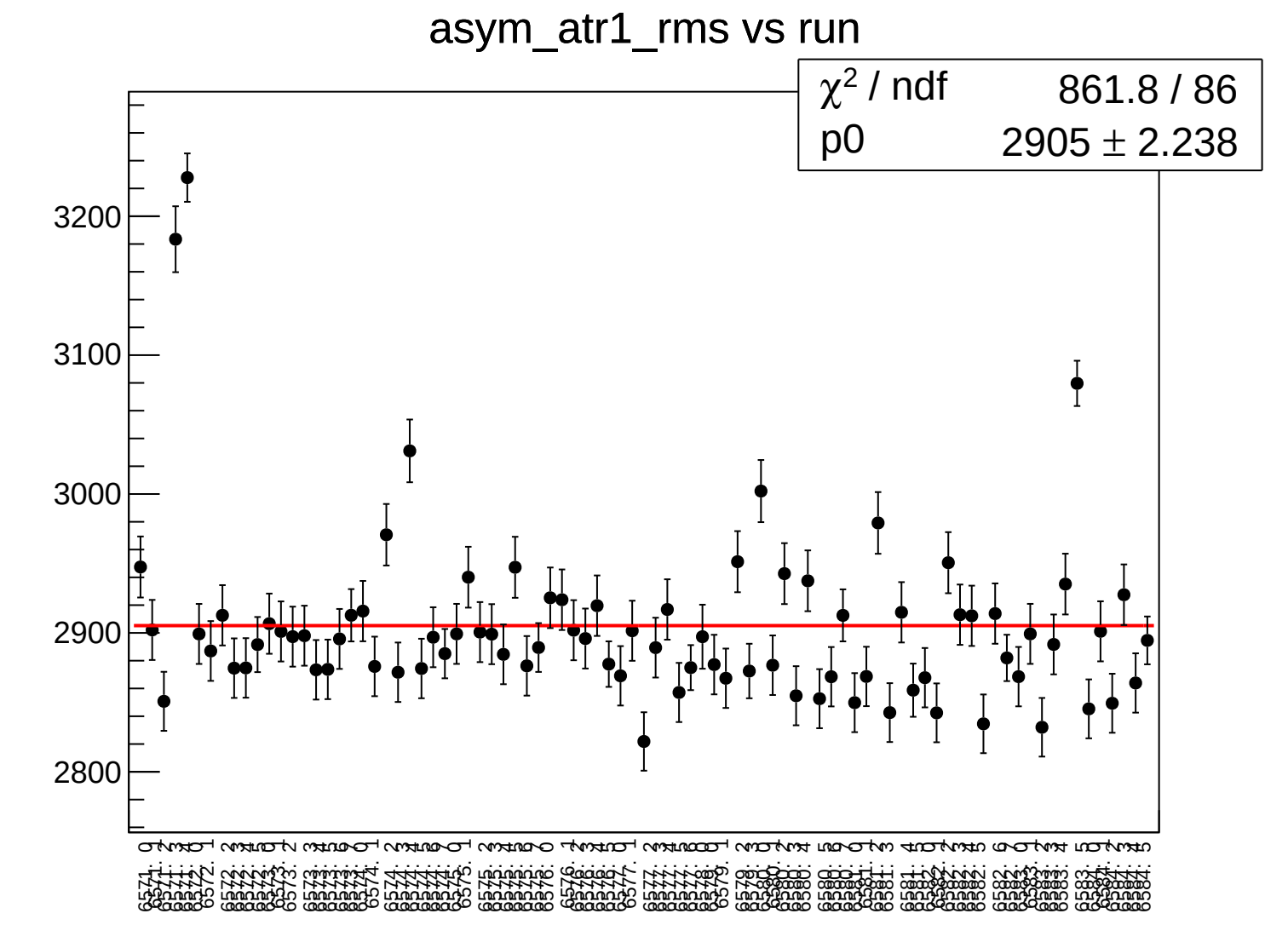

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 92.5 / 86
p0 −146.6 ± 1116
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −428.1
Std Dev 0
2
1
0
−1
−2

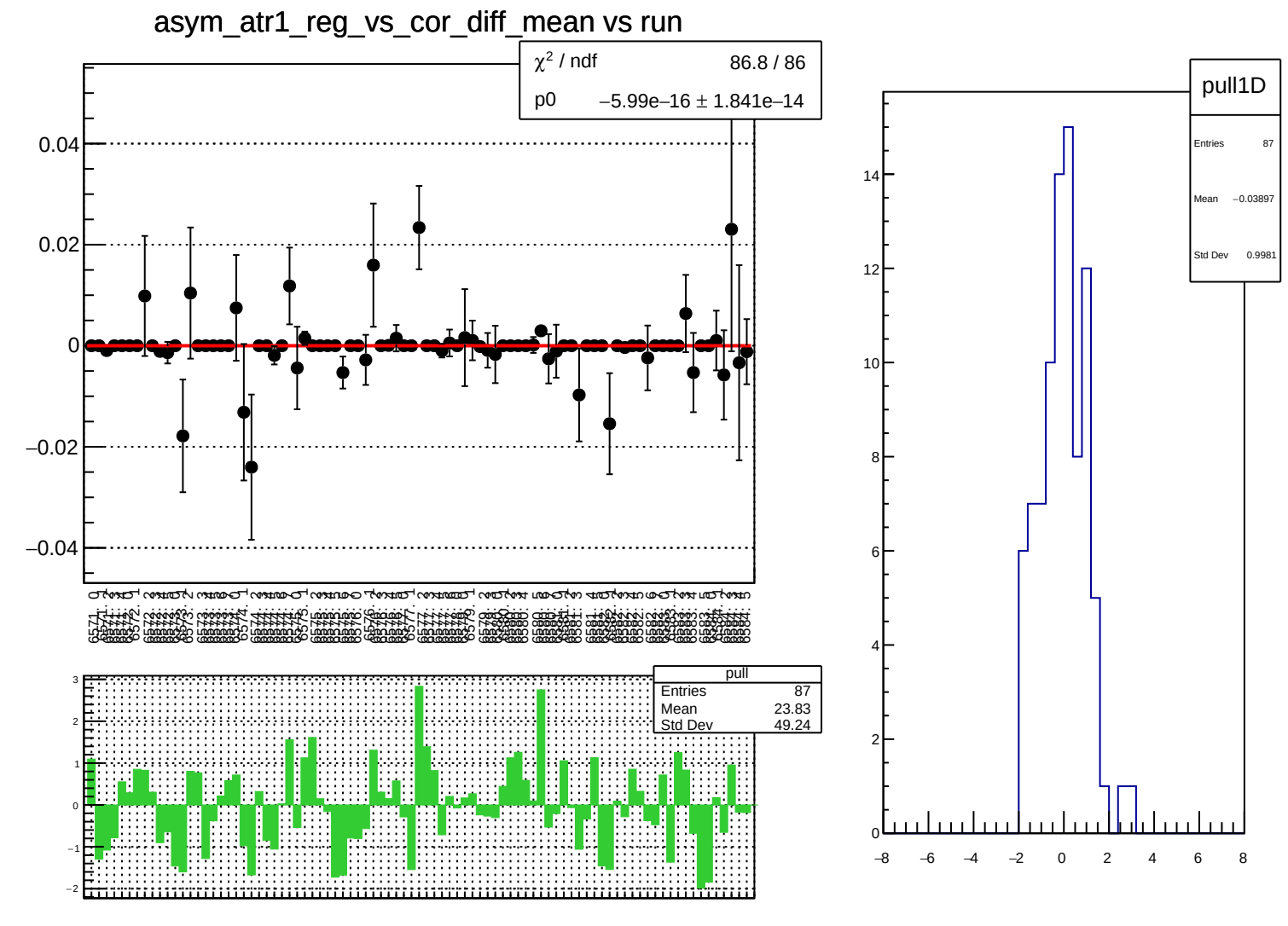

pull1D
Entries 87
Mean −0.00673
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

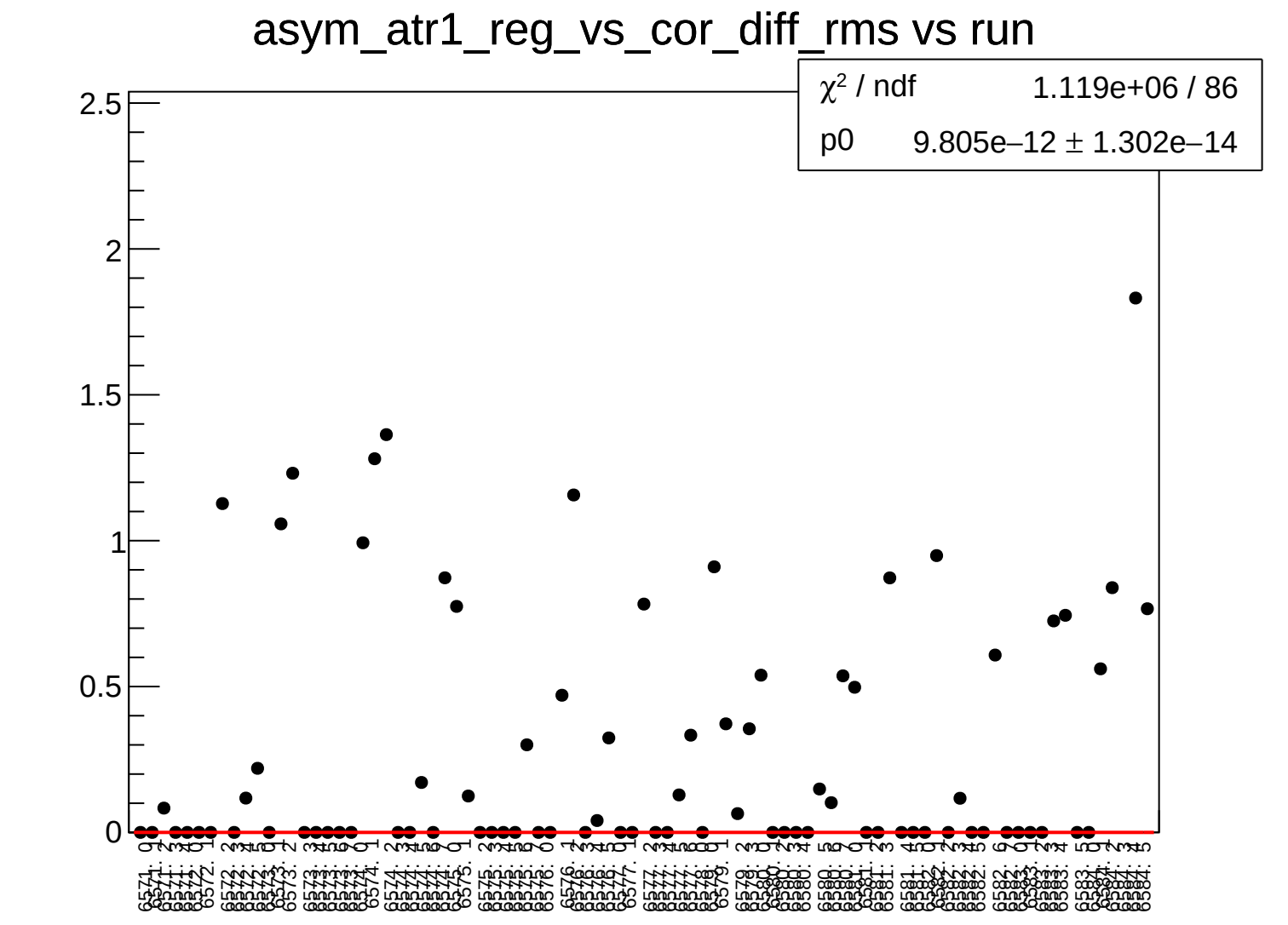

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1.336e+04 / 86
p0 1021 ± 0.7891
1400
1300
1200
1100
1000
900

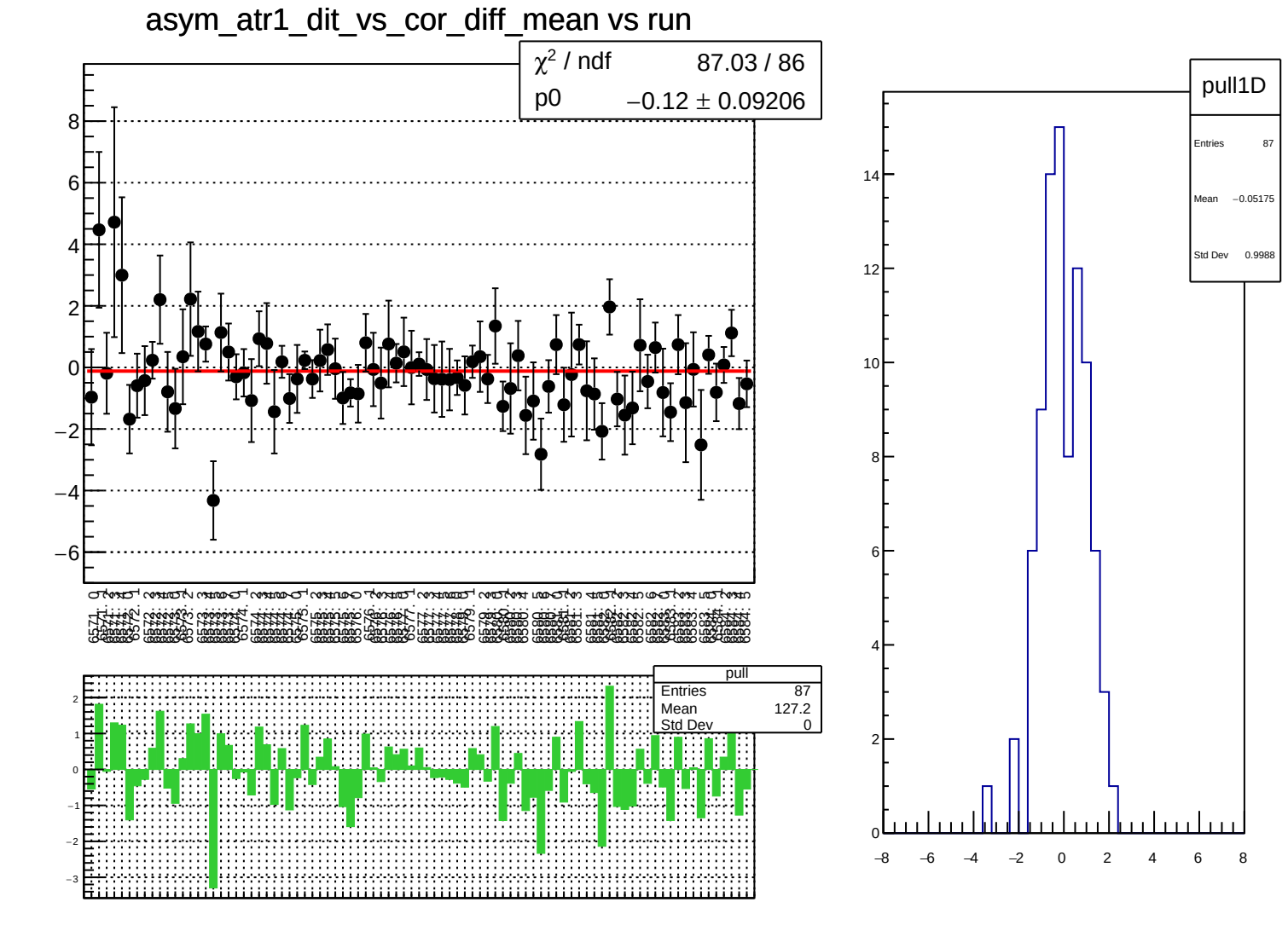

asym_atr1_mean vs run
×10^3
χ² / ndf 91.63 / 86
p0 2685 ± 3164
100
50
0
−50
−100
pull
Entries 87
Mean −1083
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

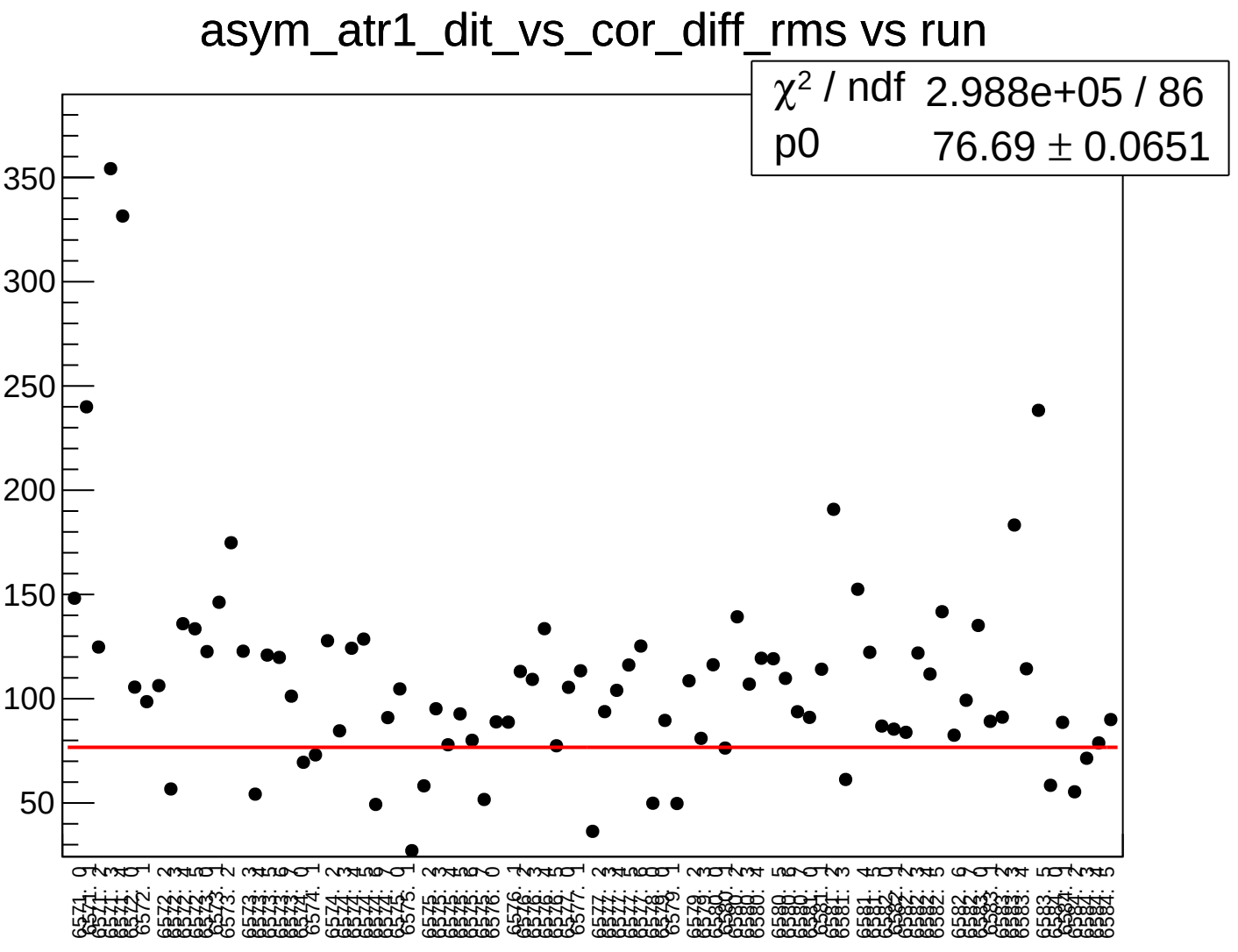

pull1D
Entries 87
Mean 0.0006399
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

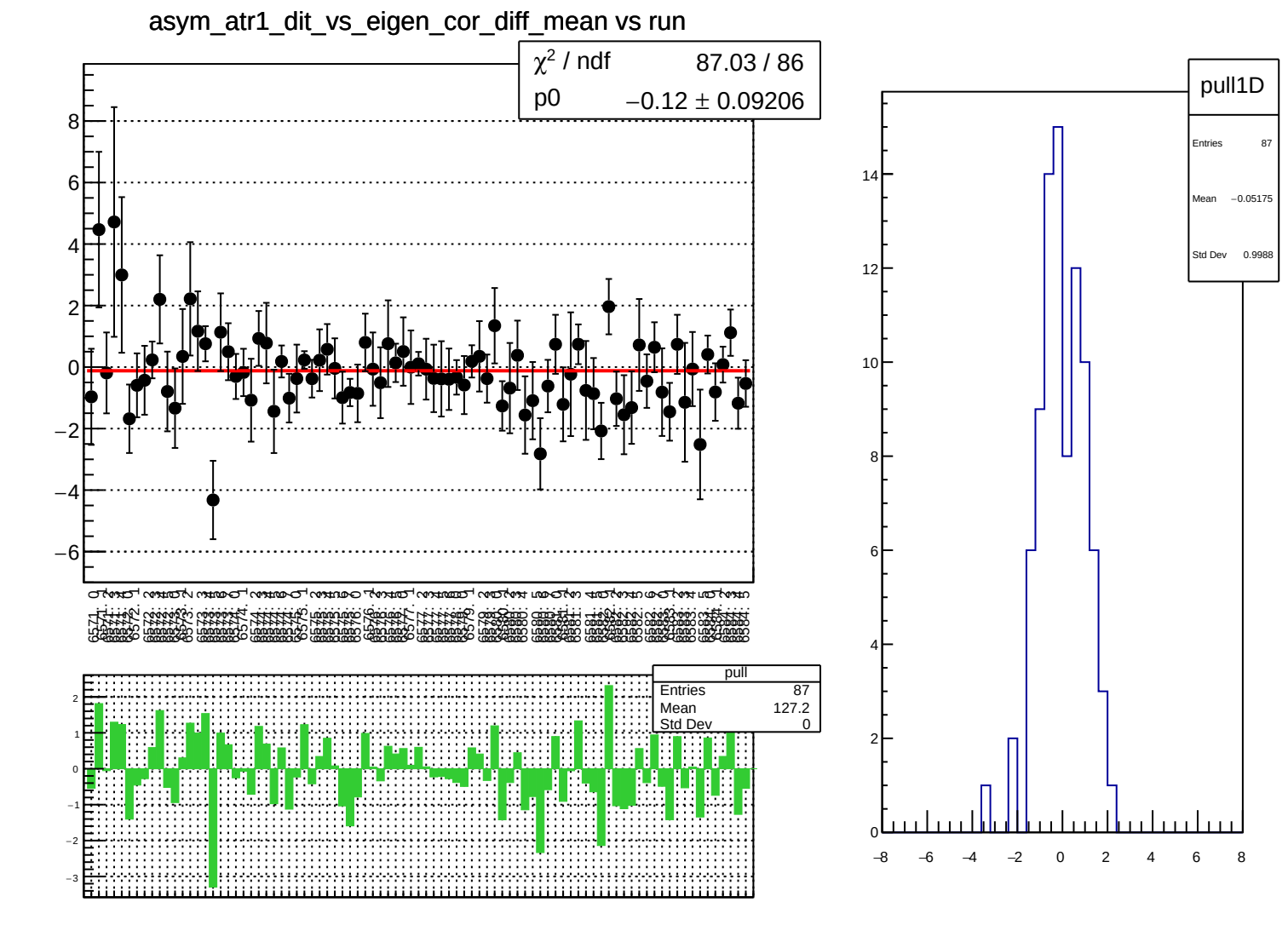

asym_atr1_rms vs run
χ^2 / ndf 861.8 / 86
p0 2905 ± 2.238
3200
3100
3000
2900
2800

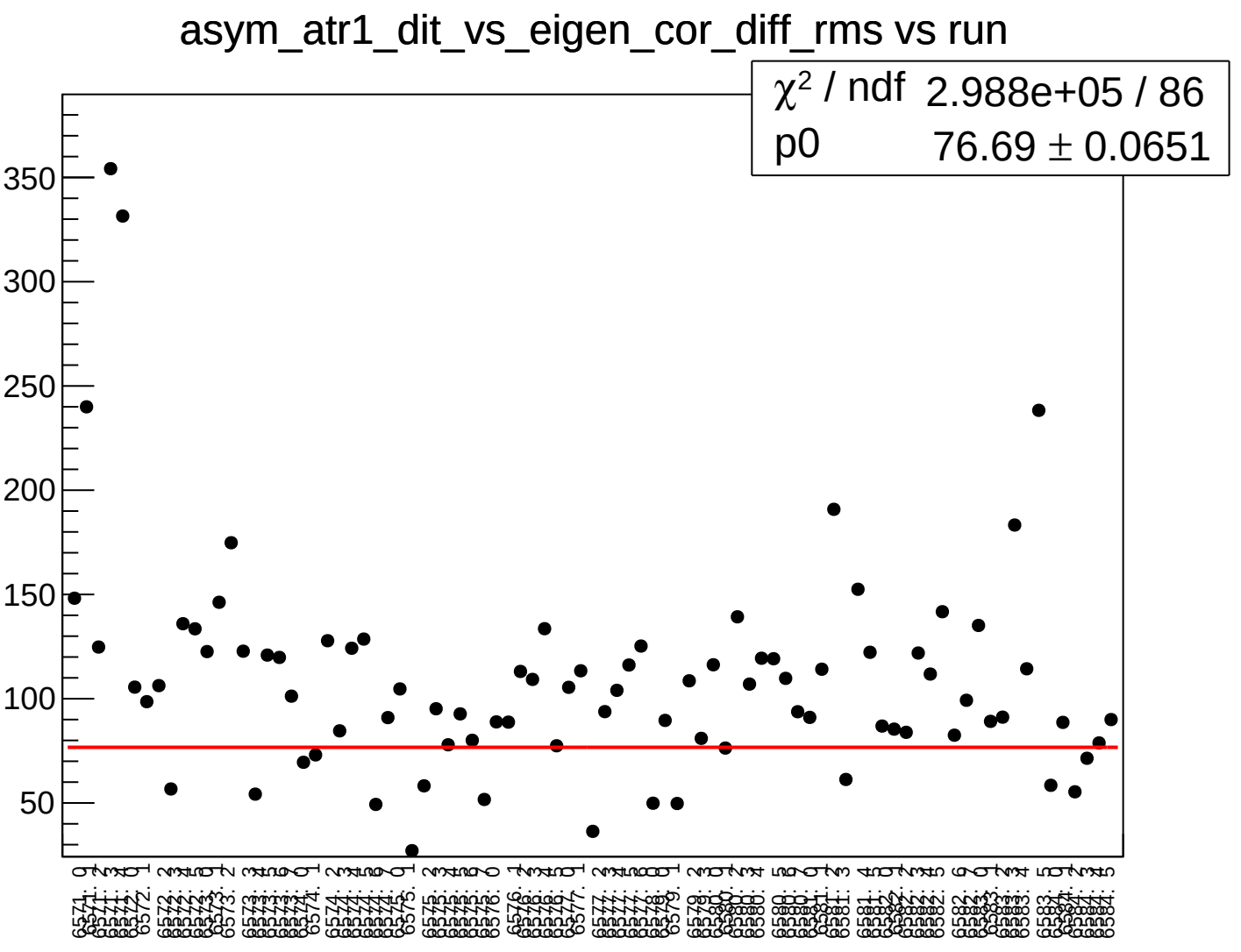

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 86.8 / 86
p0 −5.99e−16 ± 1.841e−14
0.04
0.02
0
−0.02
−0.04
pull
Entries 87
Mean 23.83
Std Dev 49.24
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.03897
Std Dev 0.9981
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

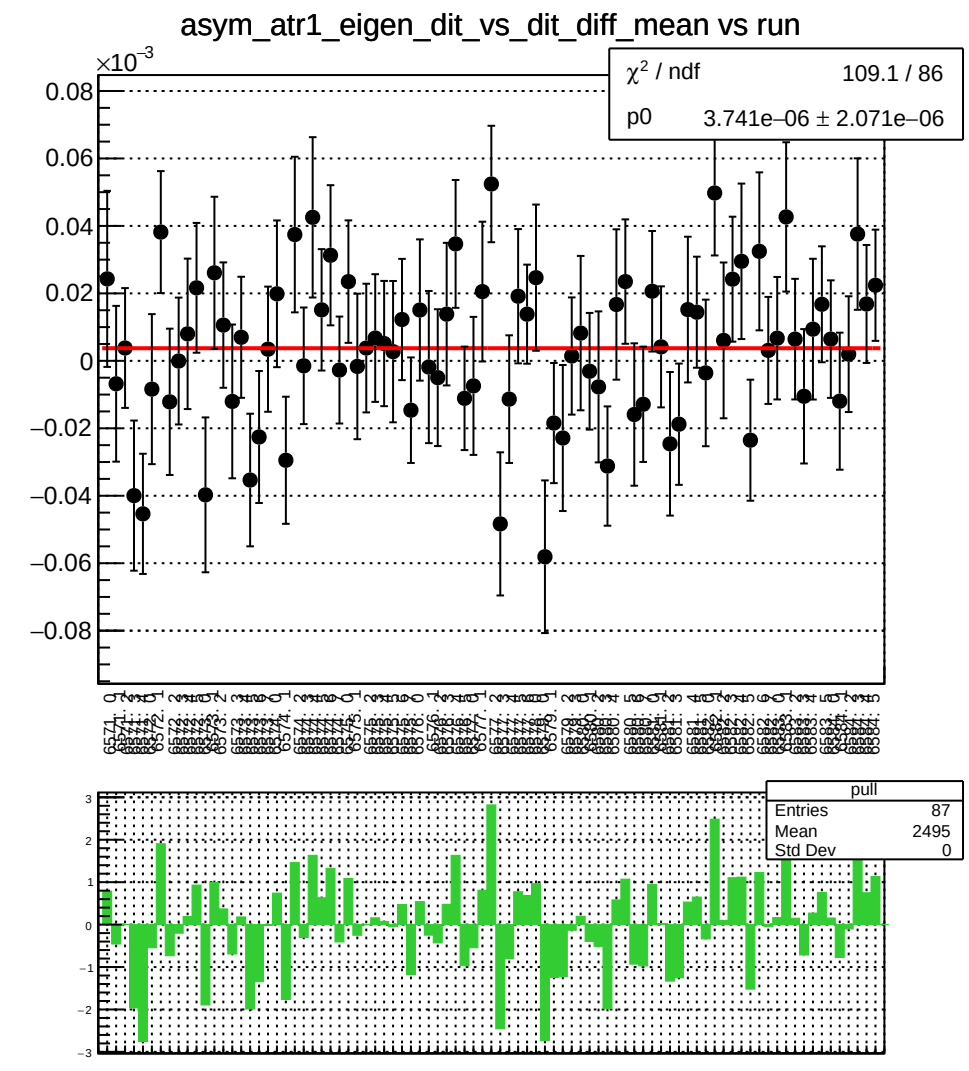

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.119e+06 / 86
p0 9.805e−12 ± 1.302e−14
2.5
2
1.5
1
0.5
0

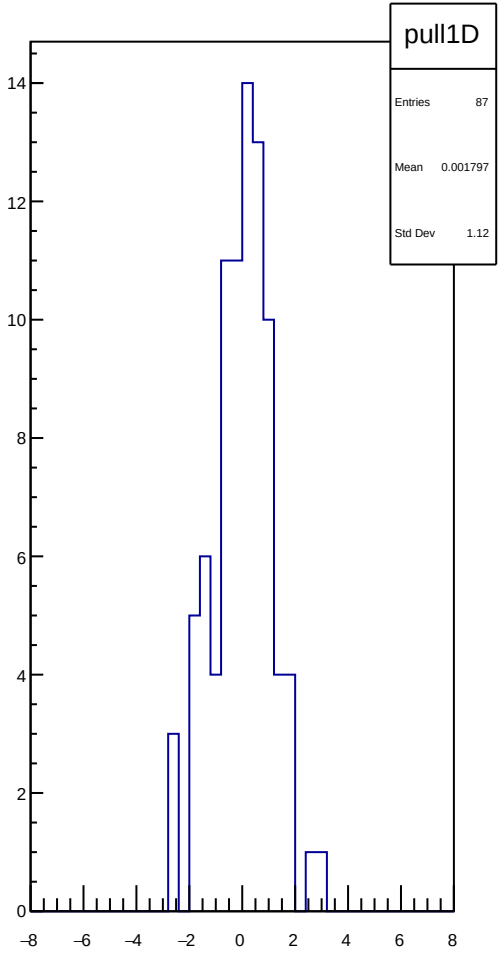

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 87.03 / 86
p0 −0.12 ± 0.09206
pull
Entries 87
Mean 127.2
Std Dev 0
pull1D
Entries 87
Mean −0.05175
Std Dev 0.9988

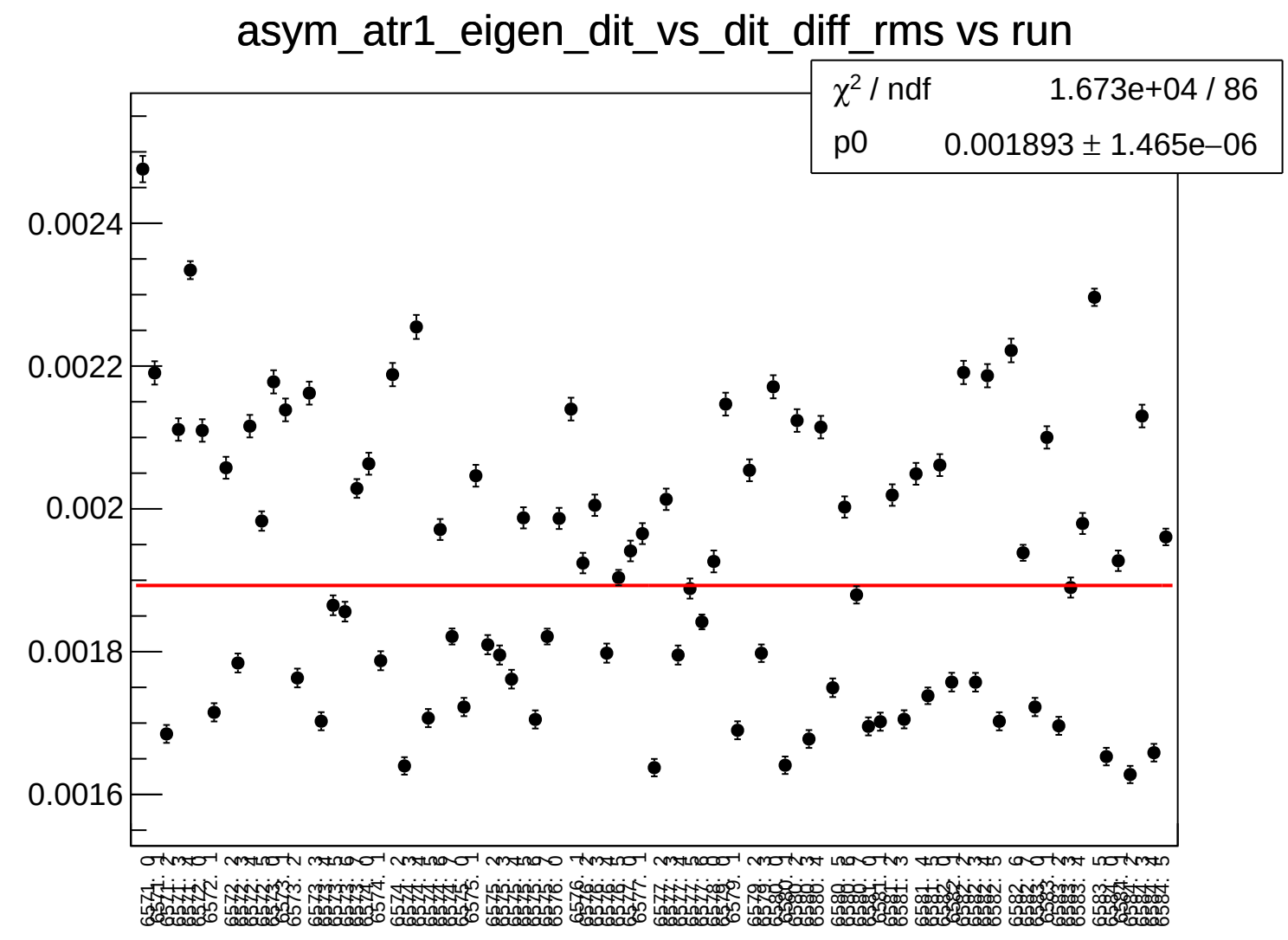

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.988e+05 / 86
p0 76.69 ± 0.0651
350
300
250
200
150
100
50

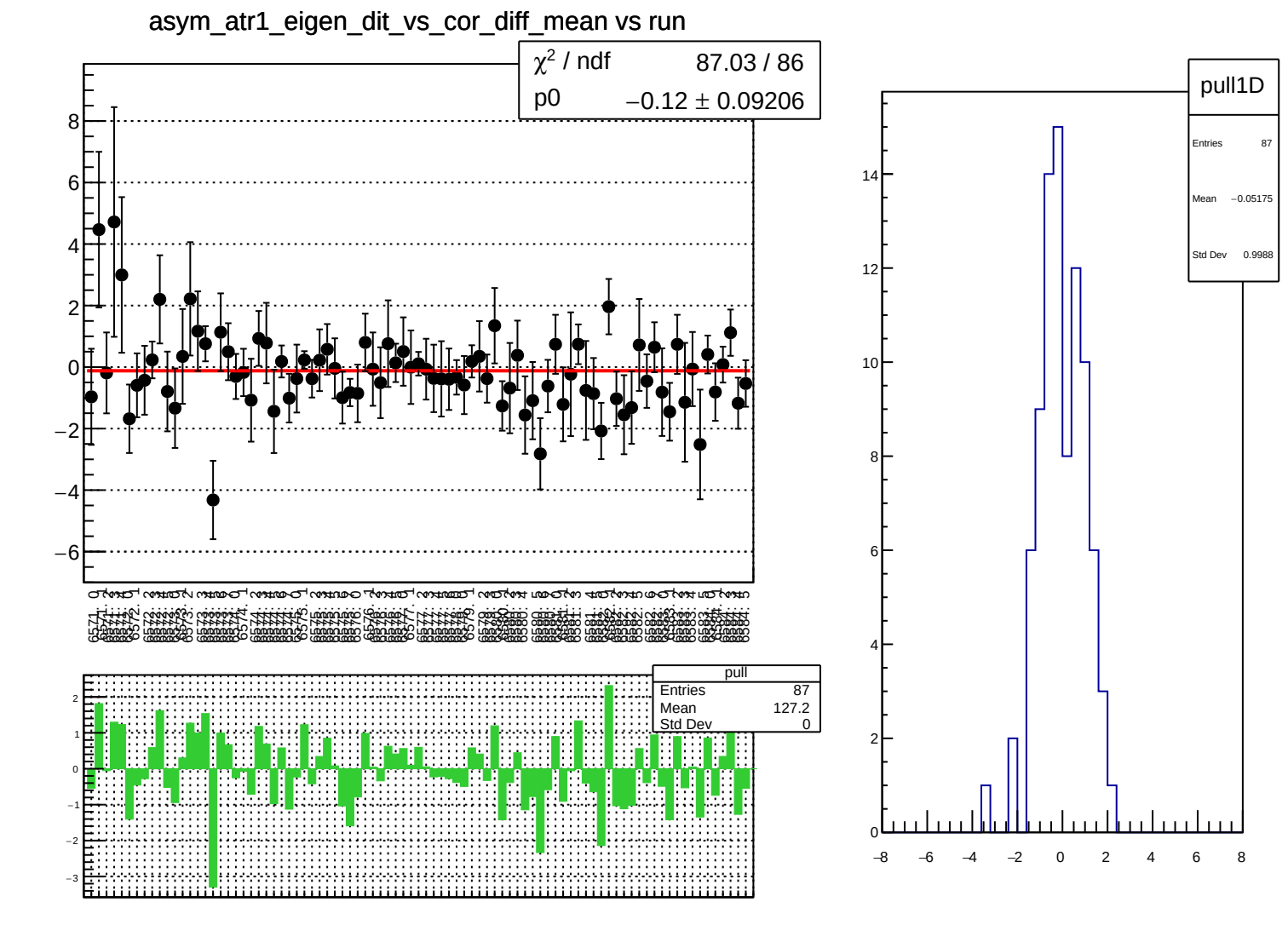

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.03 / 86
p0 −0.12 ± 0.09206
pull
Entries 87
Mean 127.2
Std Dev 0
pull1D
Entries 87
Mean −0.05175
Std Dev 0.9988

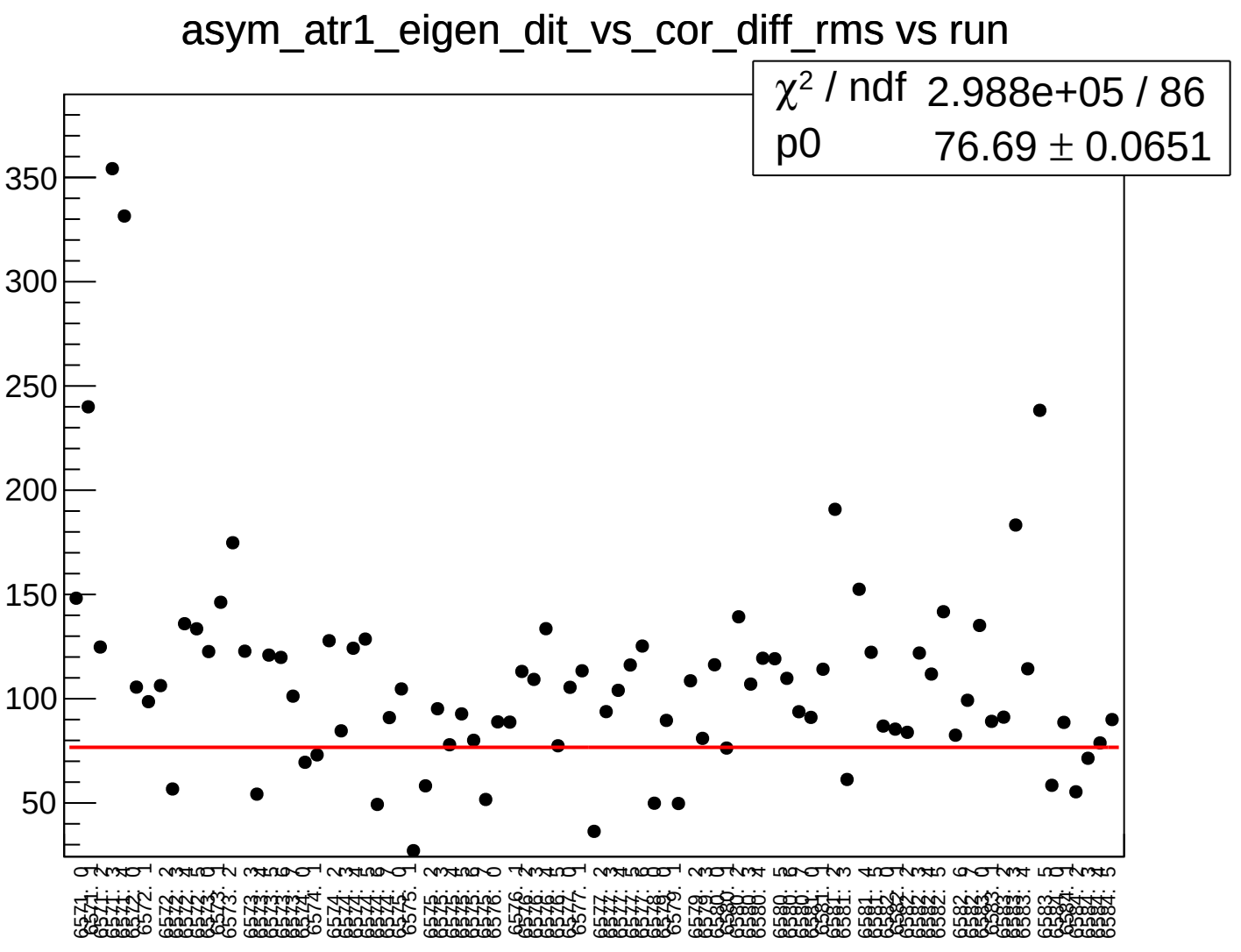

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.988e+05 / 86
p0 76.69 ± 0.0651
350
300
250
200
150
100
50

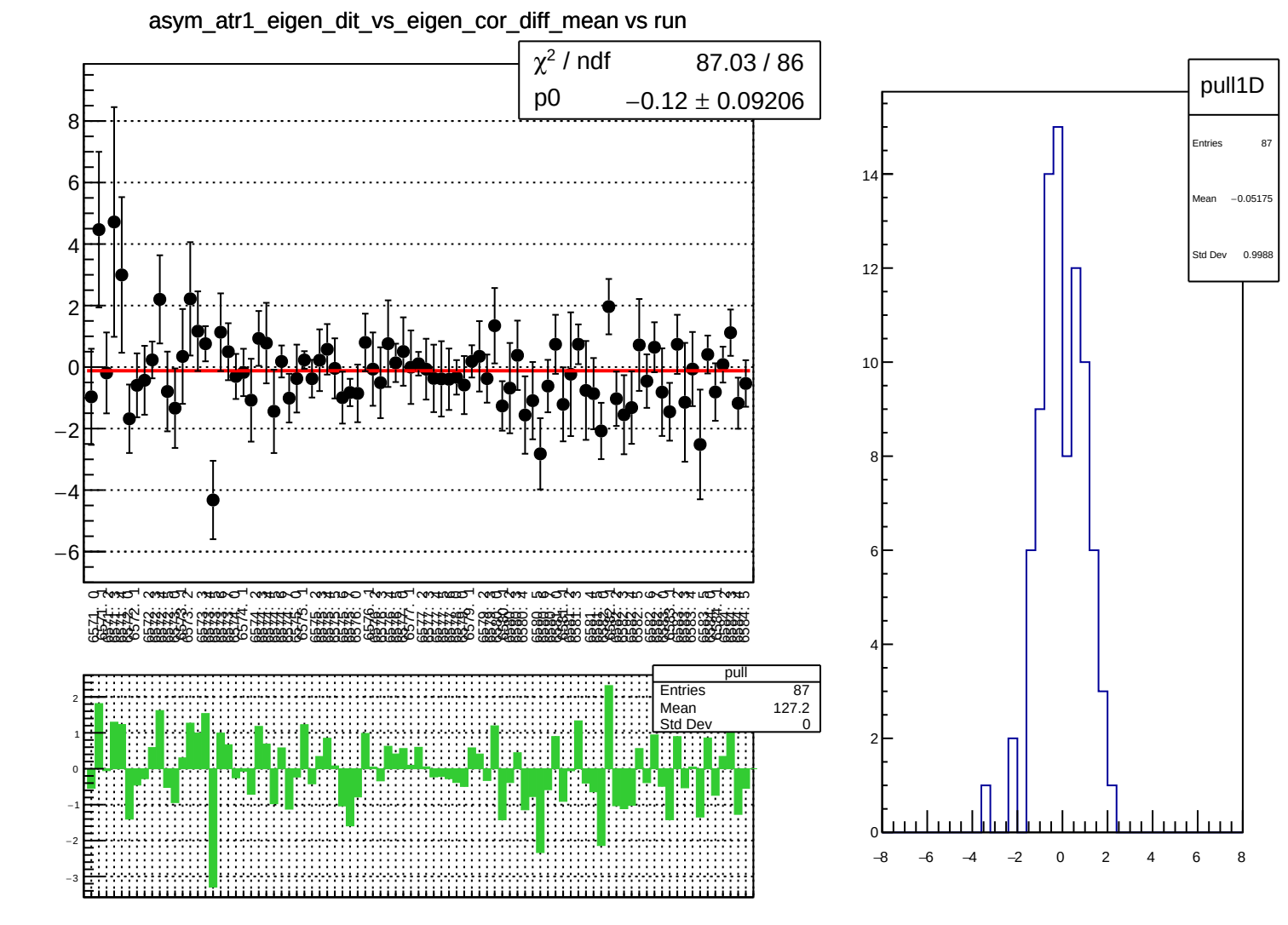

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.1 / 86
p0 3.741e−06 ± 2.071e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 87
Mean 2495
Std Dev 0
3
2
1
0
−1
−2
−3

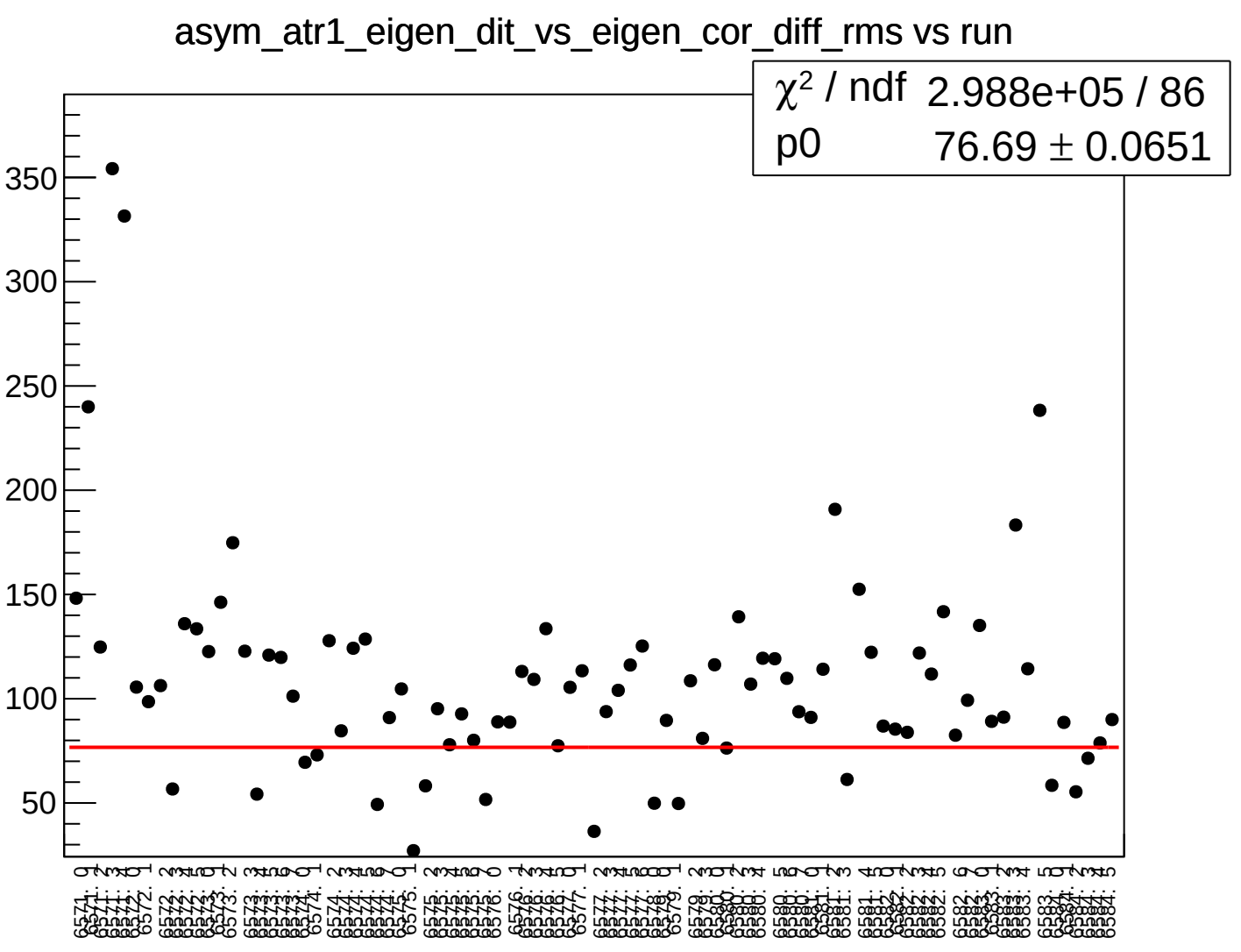

pull1D
Entries 87
Mean 0.001797
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

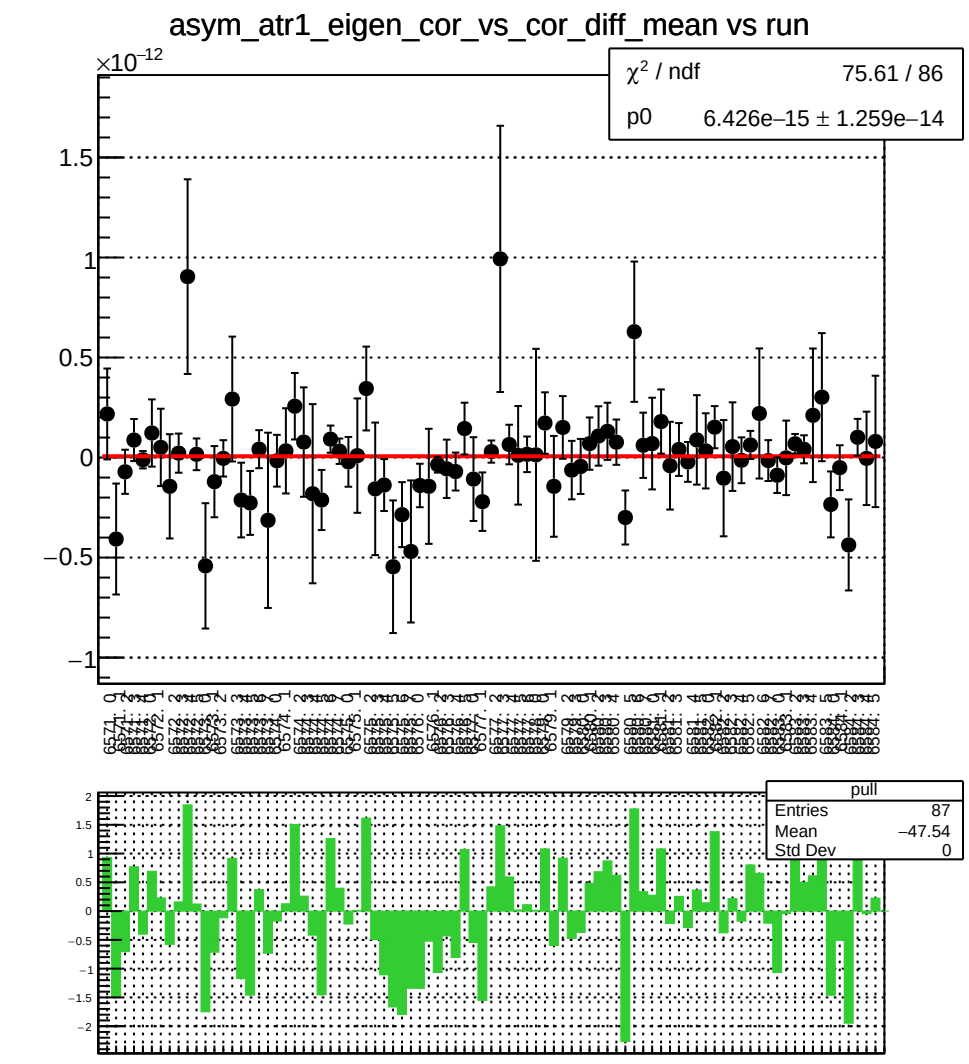

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.673e+04 / 86
p0 0.001893 ± 1.465e−06
0.0024
0.0022
0.002
0.0018
0.0016

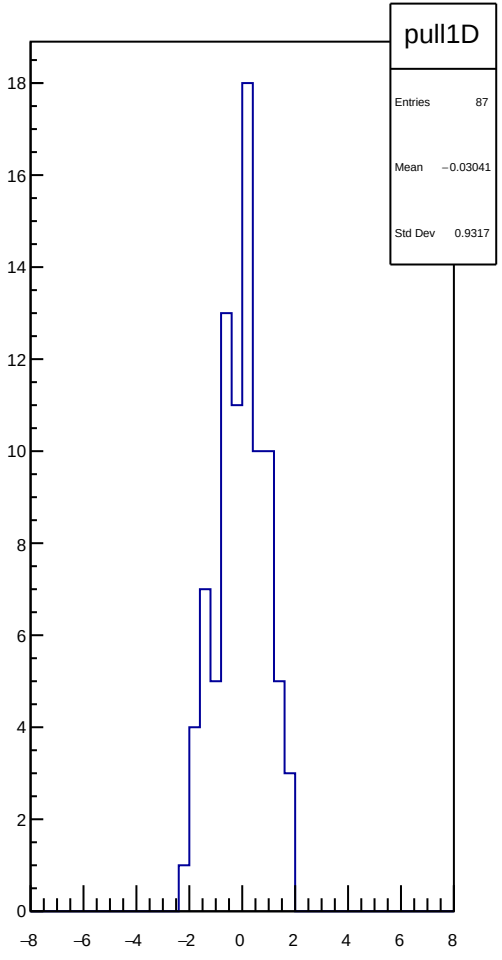

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.03 / 86
p0 −0.12 ± 0.09206
pull
Entries 87
Mean 127.2
Std Dev 0
pull1D
Entries 87
Mean −0.05175
Std Dev 0.9988

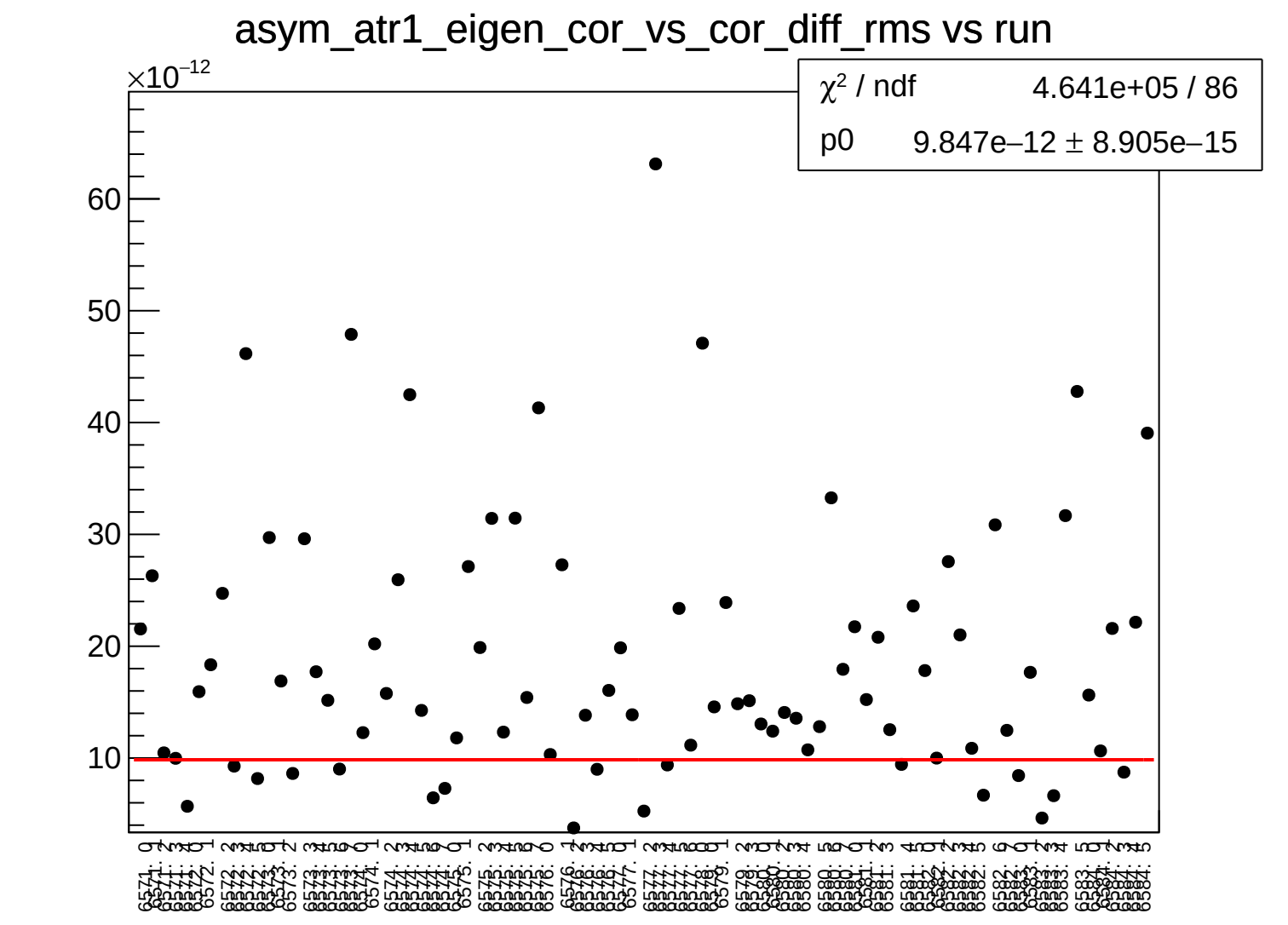

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.988e+05 / 86
p0 76.69 ± 0.0651
350
300
250
200
150
100
50

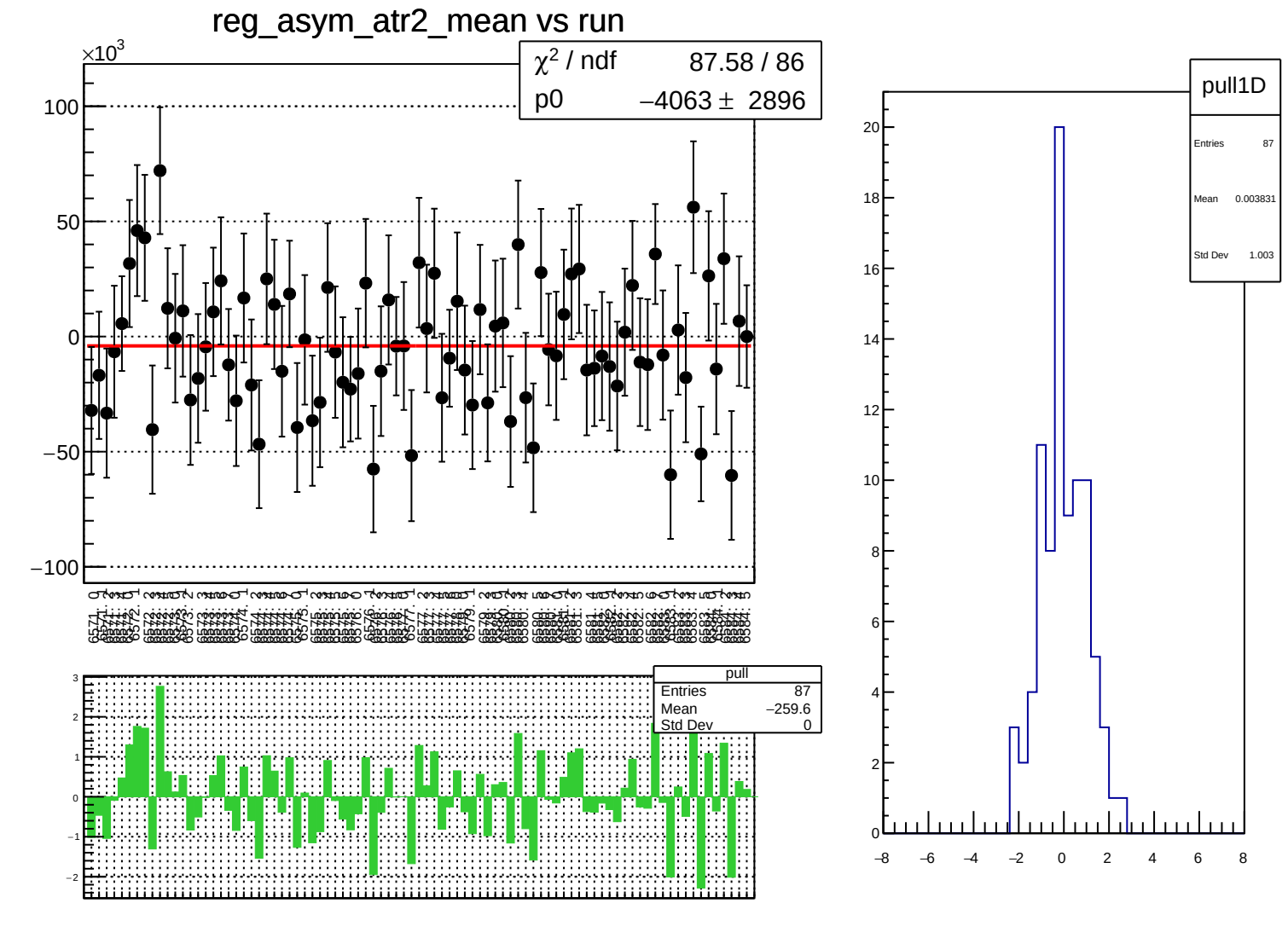

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.03 / 86
p0 −0.12 ± 0.09206
pull
Entries 87
Mean 127.2
Std Dev 0
pull1D
Entries 87
Mean −0.05175
Std Dev 0.9988

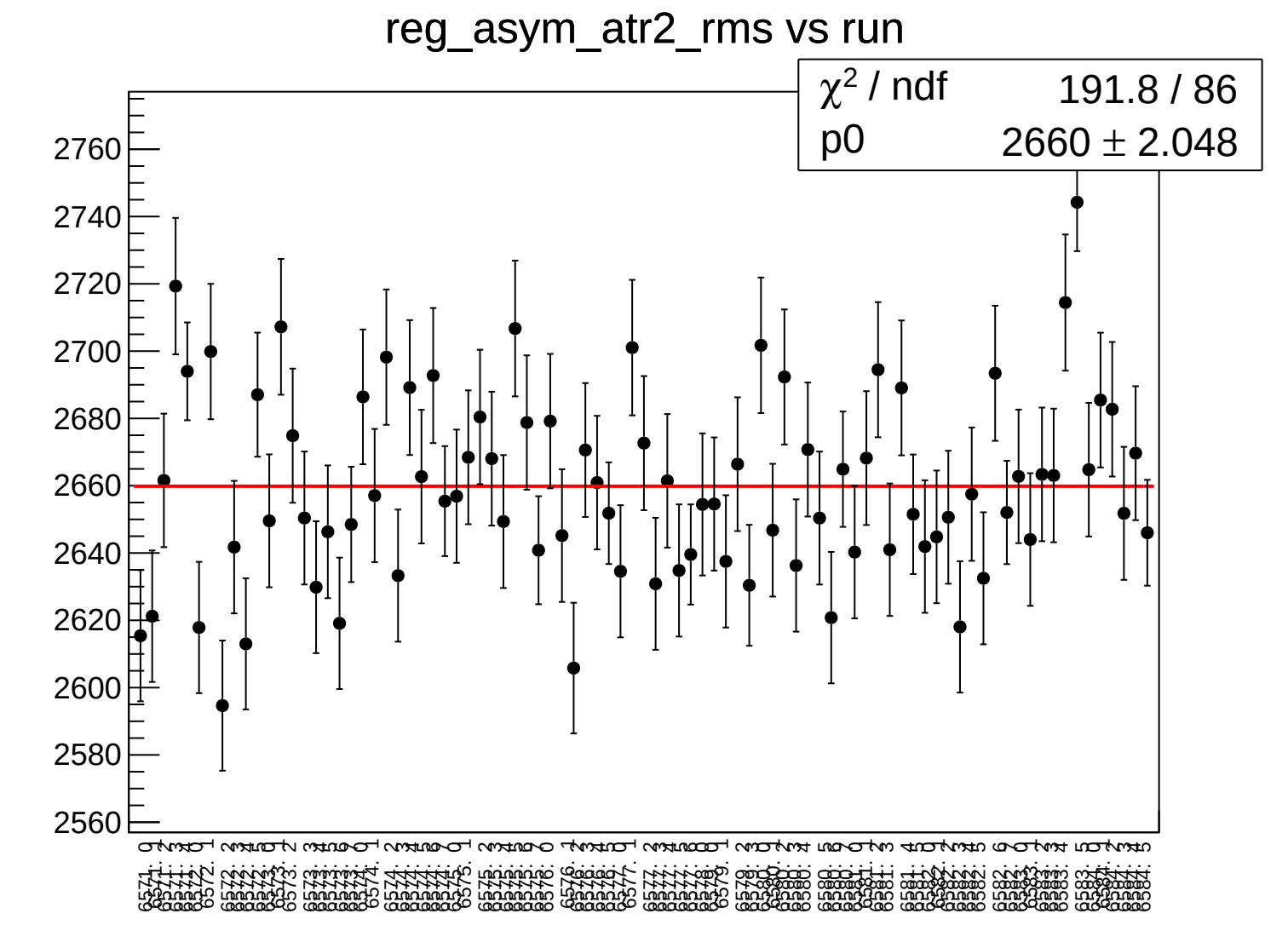

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.988e+05 / 86
p0 76.69 ± 0.0651
350
300
250
200
150
100
50

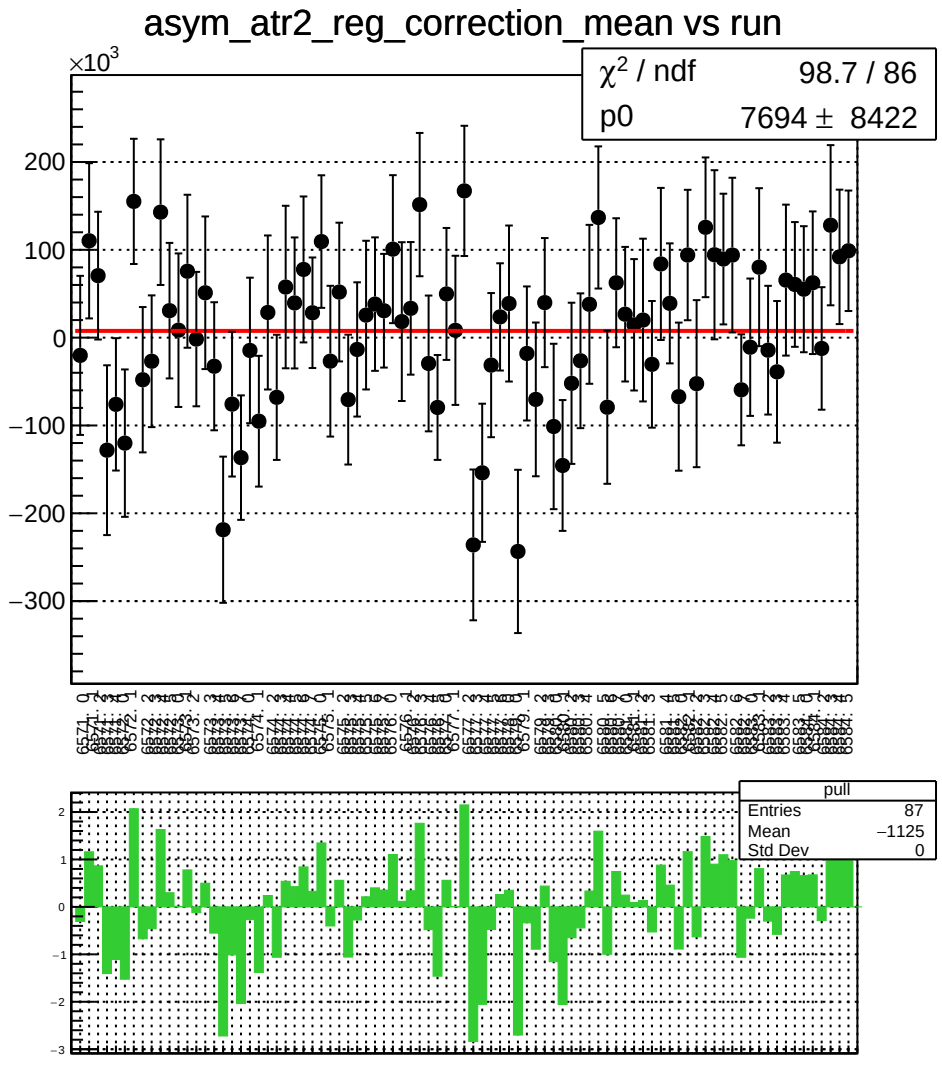

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.61 / 86
p0 6.426e−15 ± 1.259e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 87
Mean −47.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

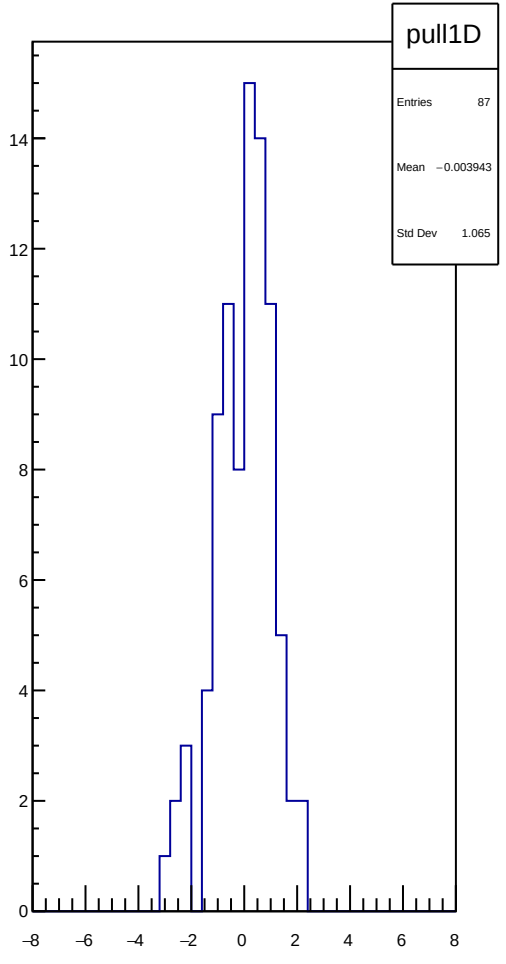

pull1D
Entries 87
Mean −0.03041
Std Dev 0.9317
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

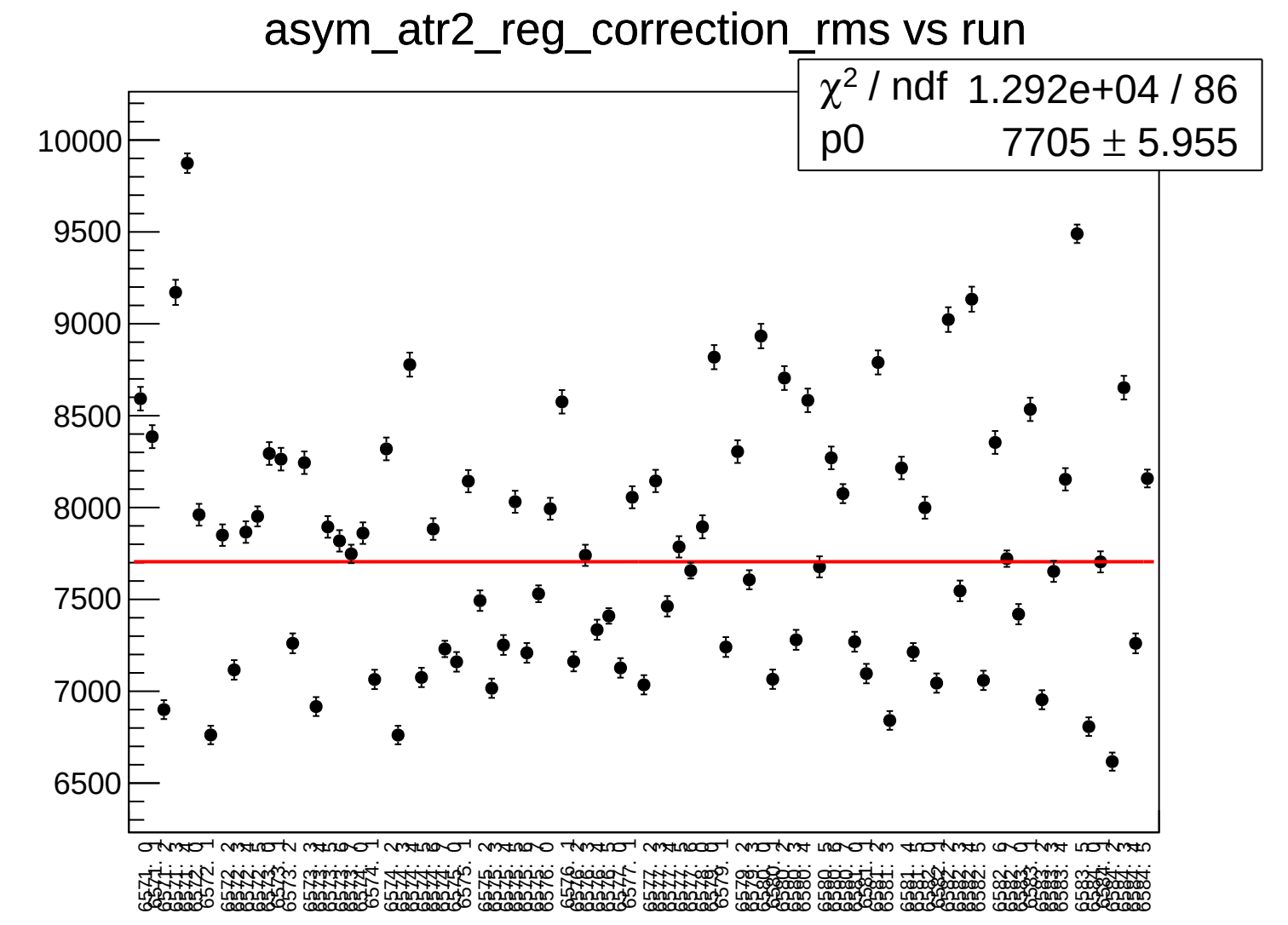

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.641e+05 / 86
p0 9.847e−12 ± 8.905e−15
60
50
40
30
20
10

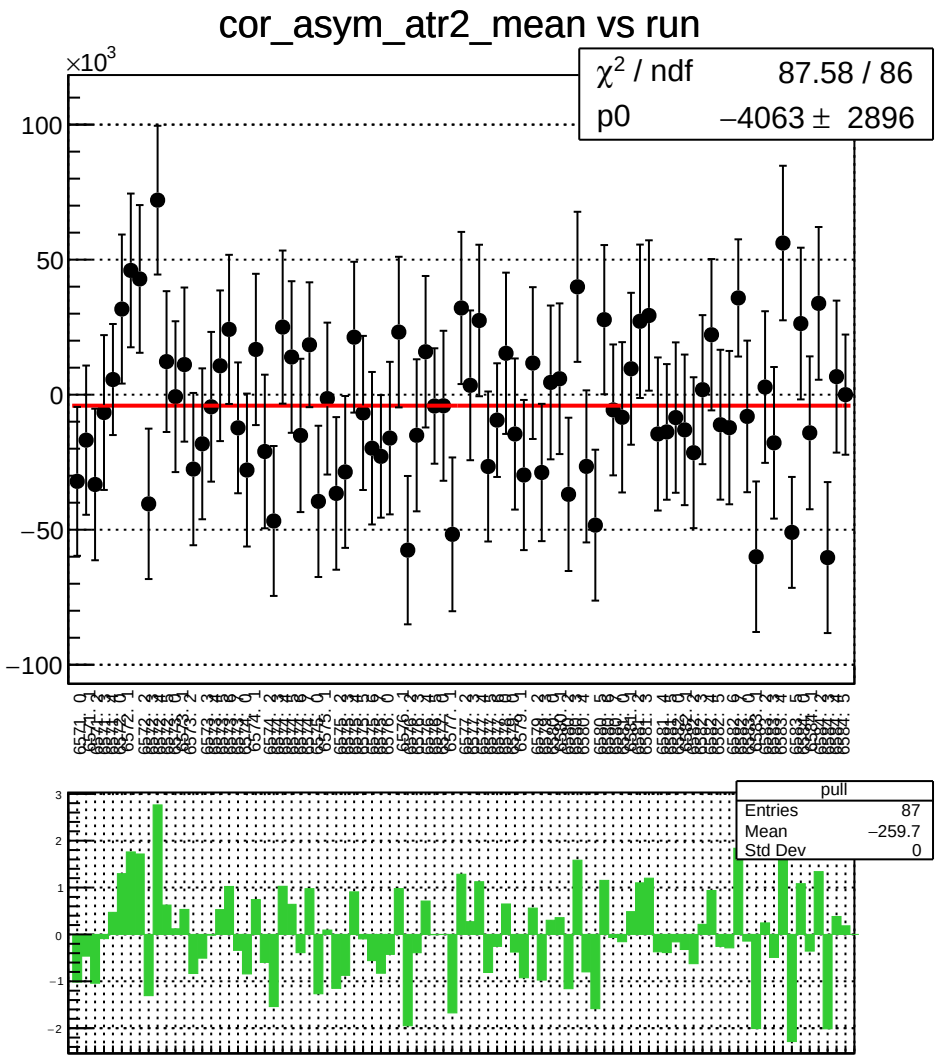

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 87.58 / 86
p0 −4063 ± 2896
100
50
0
−50
−100
pull
Entries 87
Mean −259.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.003831
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

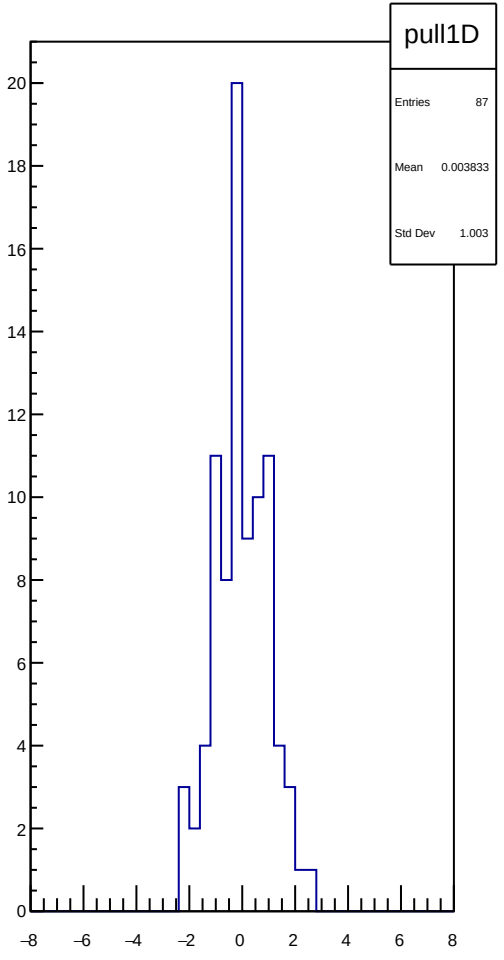

reg_asym_atr2_rms vs run
χ² / ndf 191.8 / 86
p0 2660 ± 2.048
2760
2740
2720
2700
2680
2660
2640
2620
2600
2580
2560

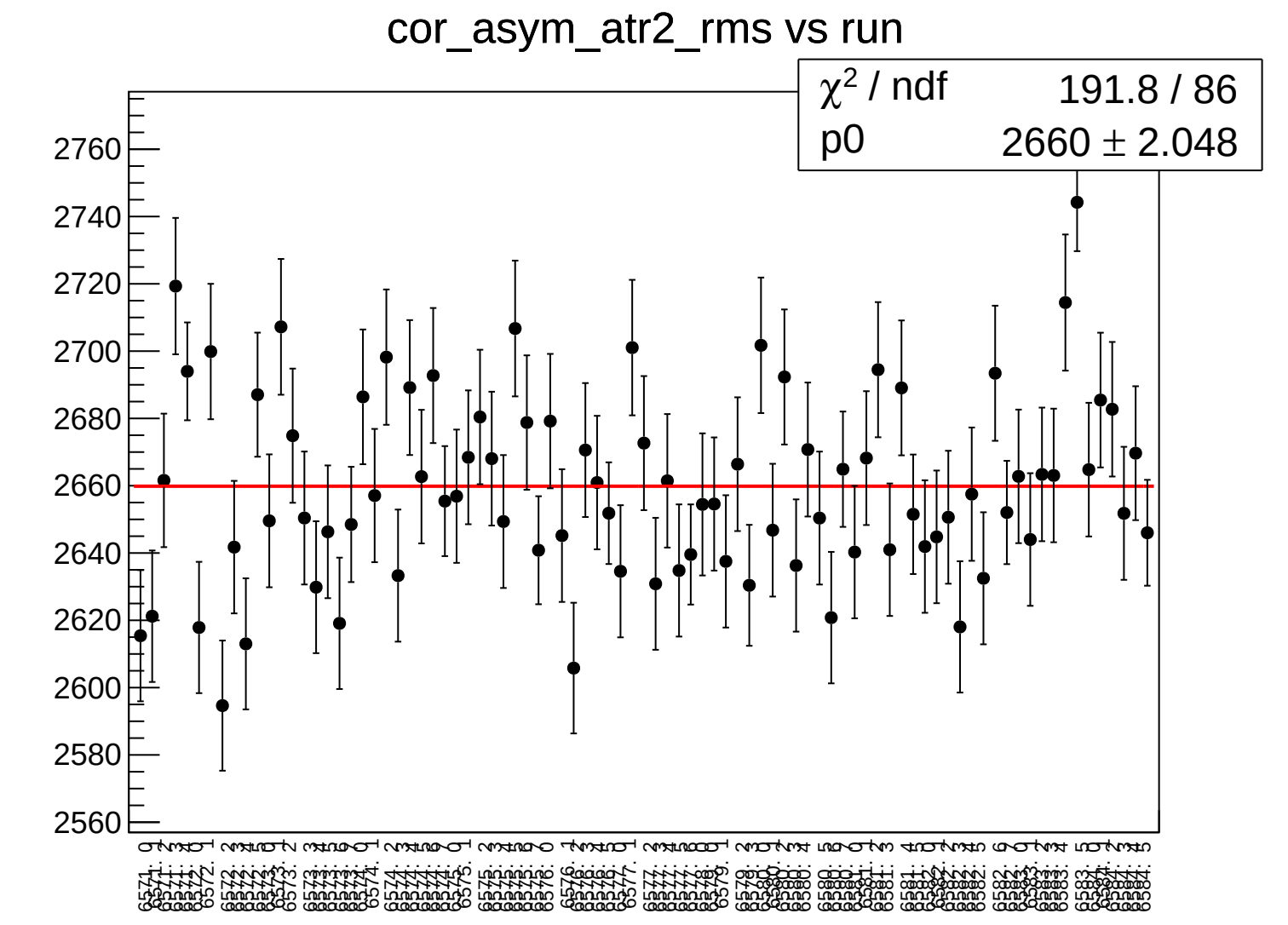

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 98.7 / 86
p0 7694 ± 8422
200
100
0
−100
−200
−300
pull
Entries 87
Mean −1125
Std Dev 0
2
1
0
−1
−2
−3

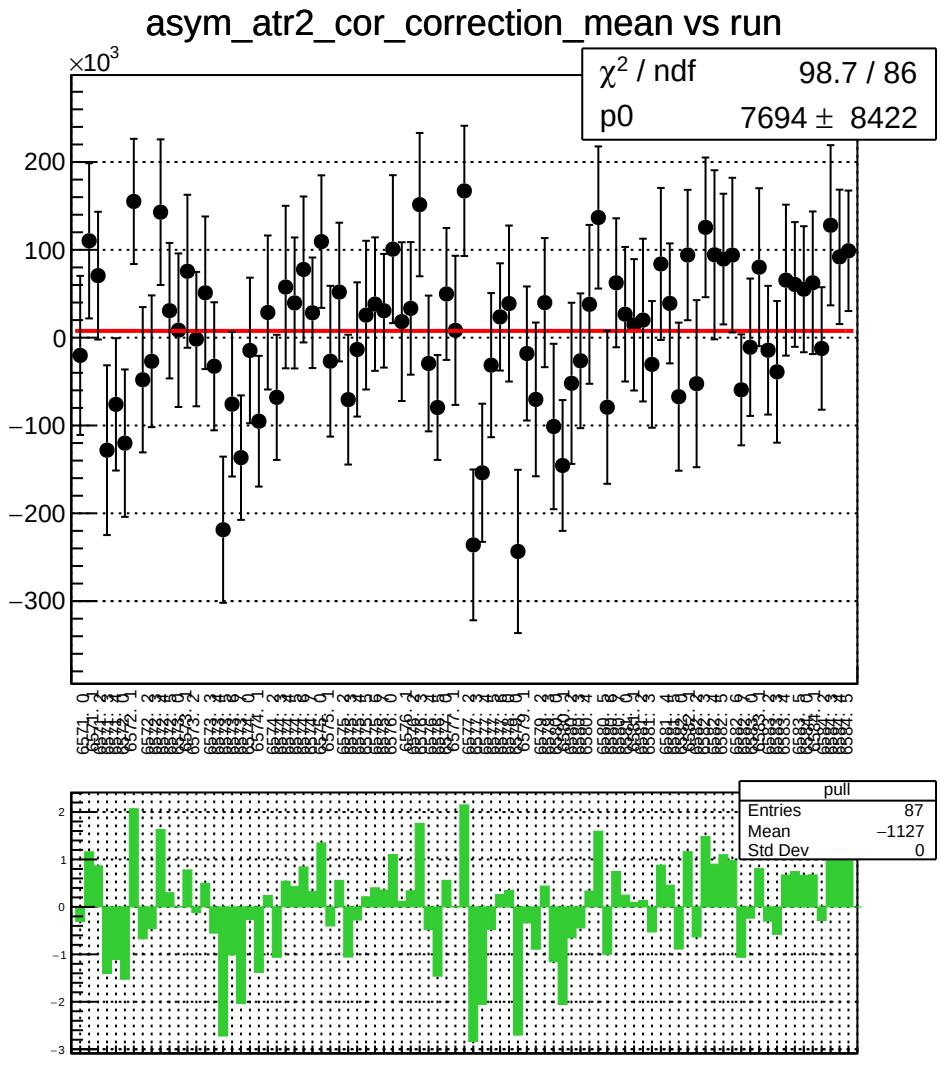

pull1D
Entries 87
Mean −0.003943
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

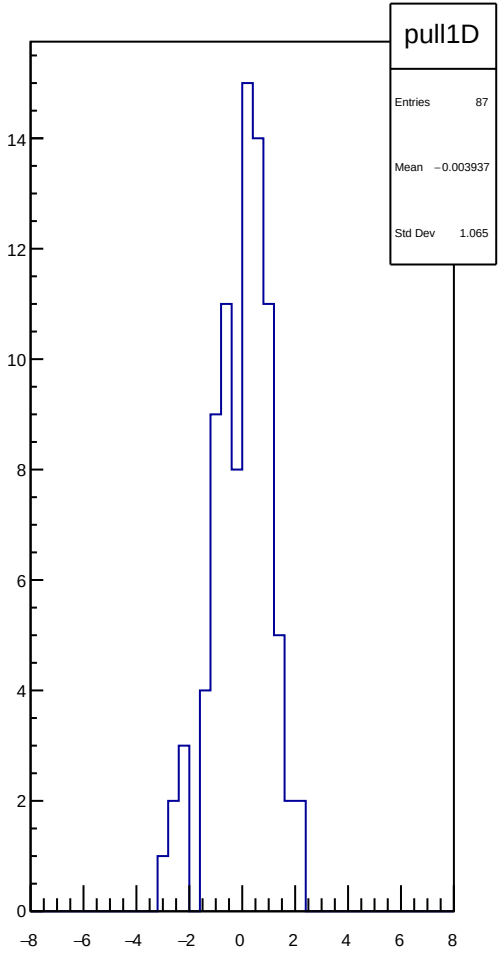

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.292e+04 / 86
p0 7705 ± 5.955
10000
9500
9000
8500
8000
7500
7000
6500

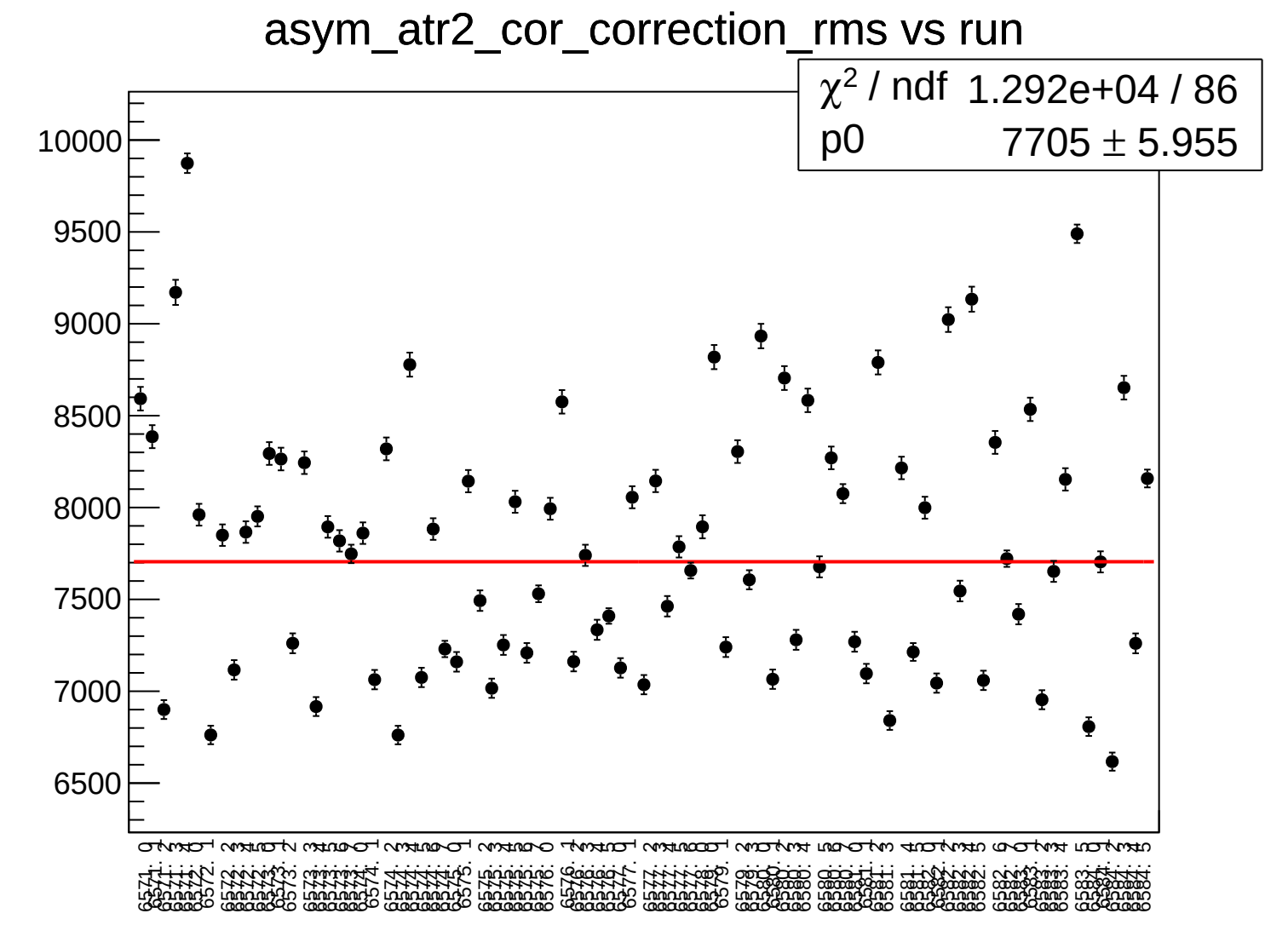

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 87.58 / 86
p0 −4063 ± 2896
100
50
0
−50
−100
pull
Entries 87
Mean −259.7
Std Dev 0
3
2
1
0
−1
−2

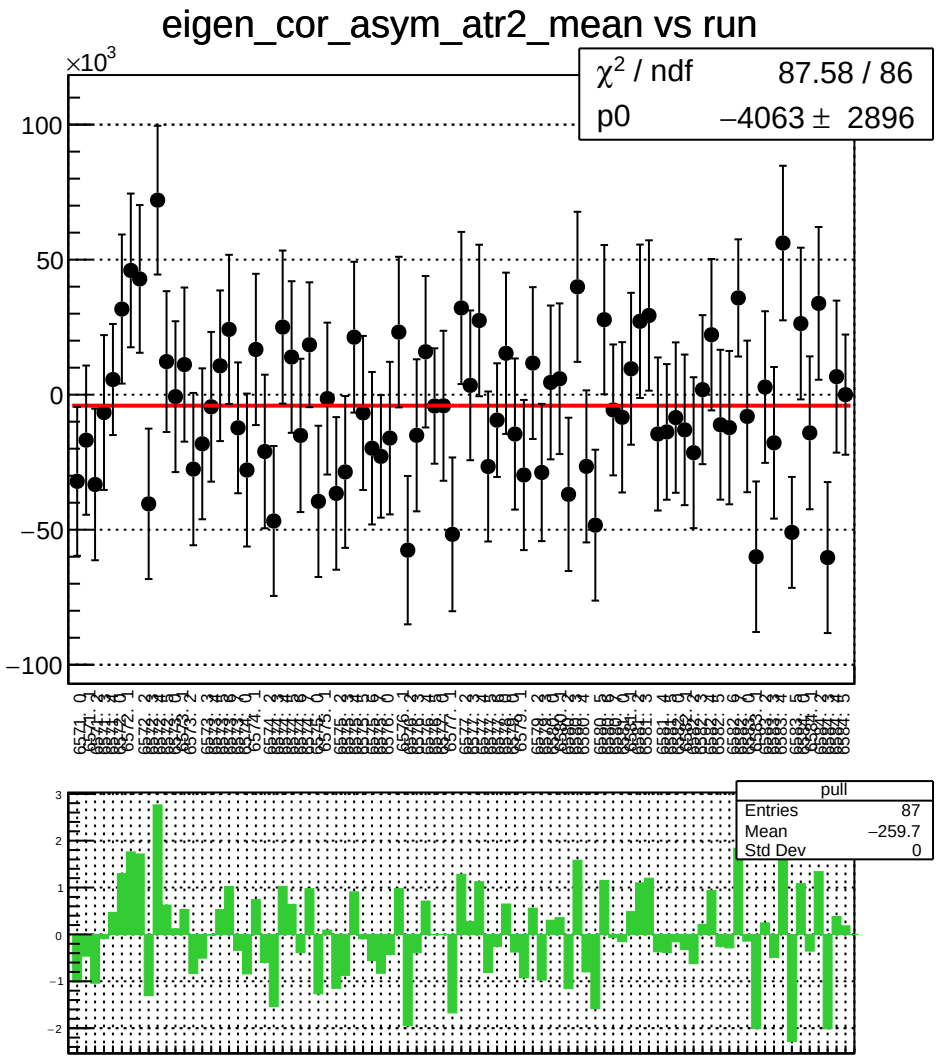

pull1D
Entries 87
Mean 0.003833
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

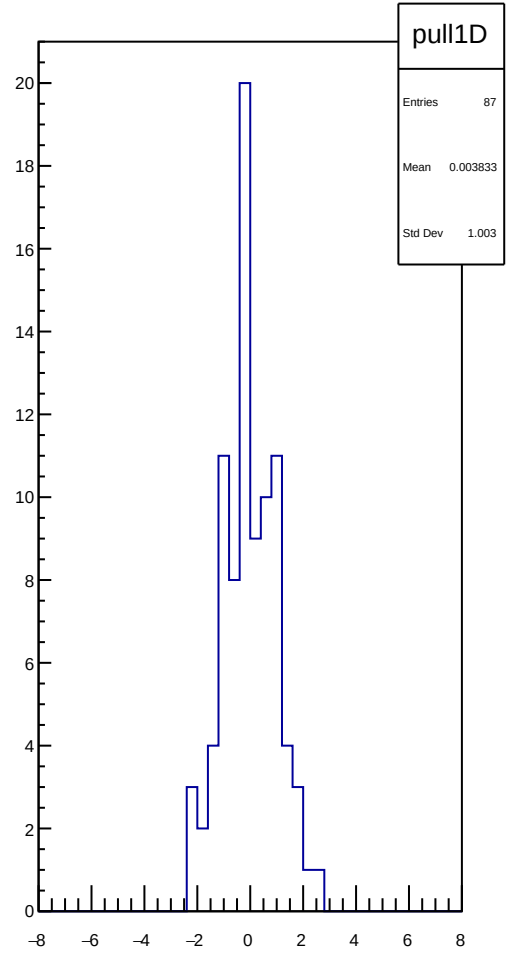

cor_asym_atr2_rms vs run
χ² / ndf 191.8 / 86
p0 2660 ± 2.048
2760
2740
2720
2700
2680
2660
2640
2620
2600
2580
2560

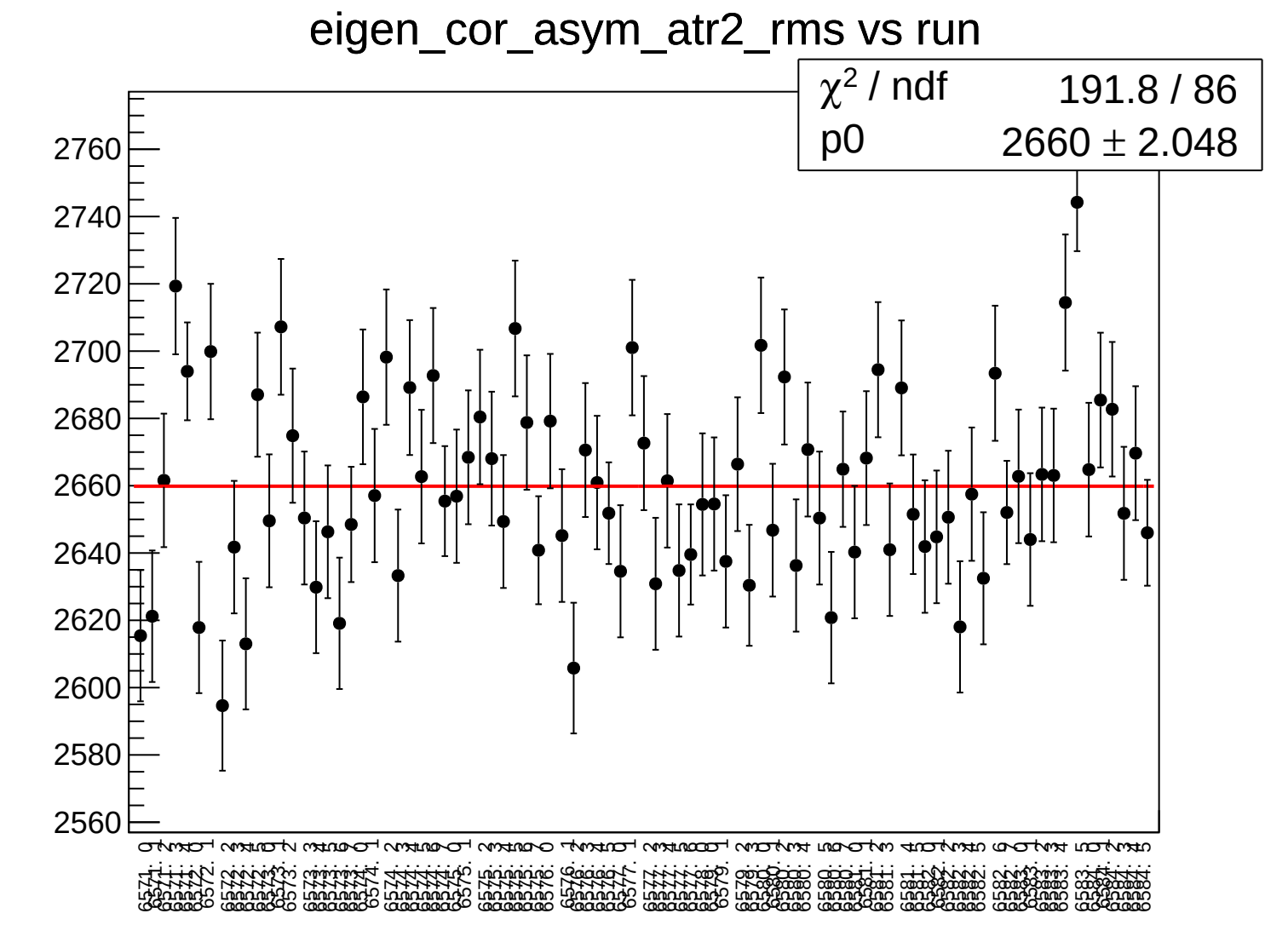

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 98.7 / 86
p0 7694 ± 8422
200
100
0
−100
−200
−300
pull
Entries 87
Mean −1127
Std Dev 0
2
1
0
−1
−2
−3

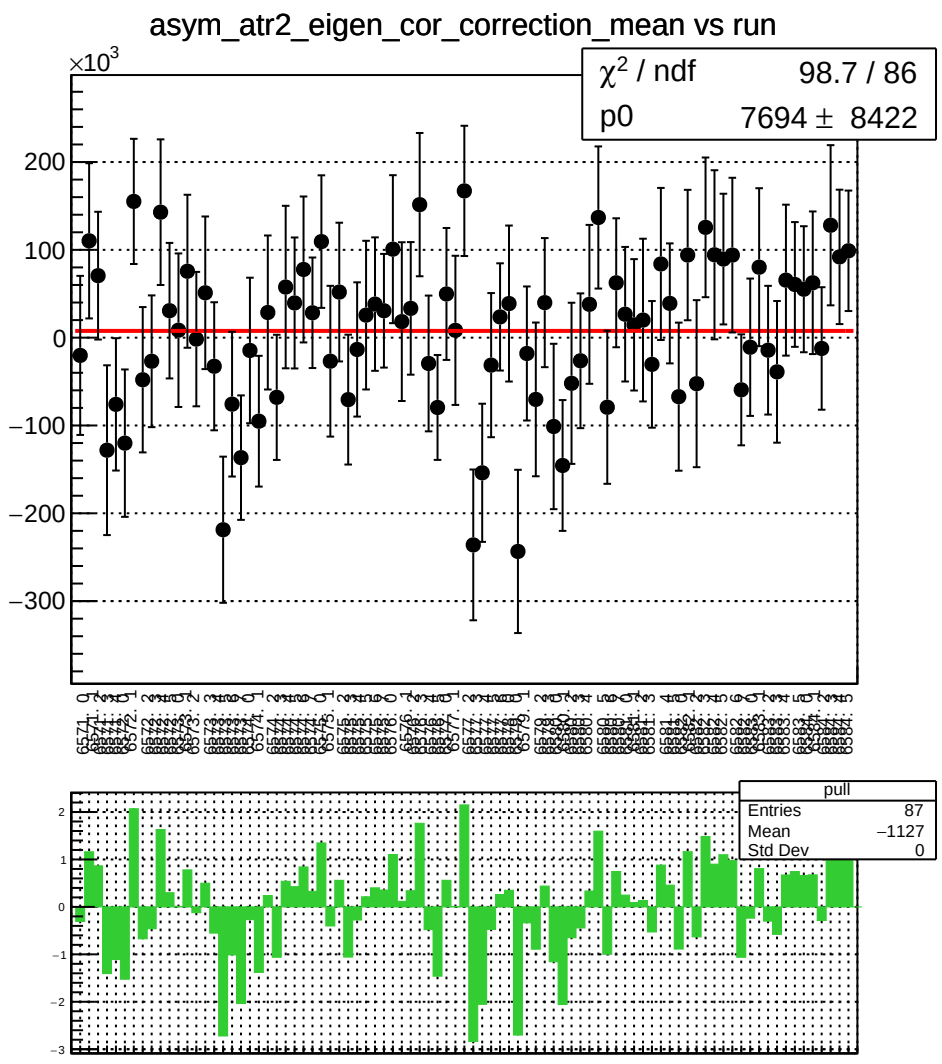

pull1D
Entries 87
Mean −0.003937
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

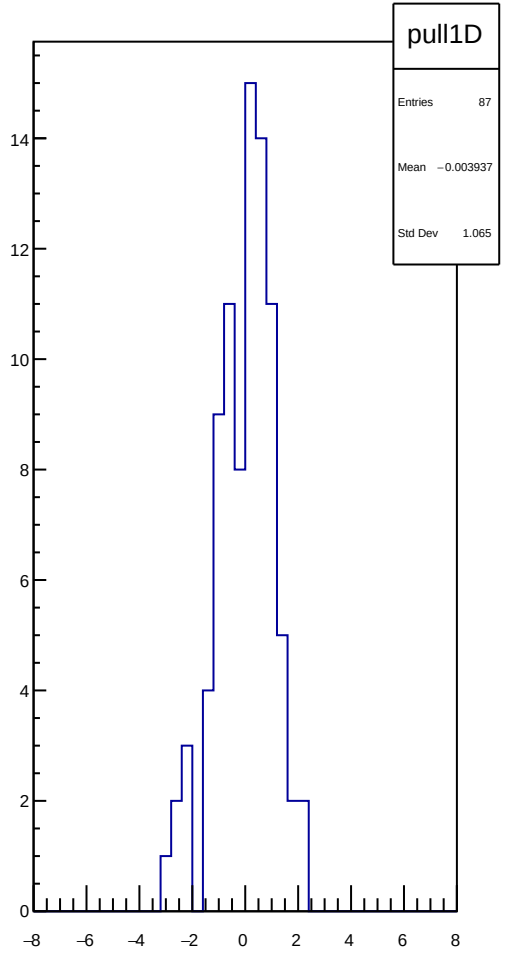

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.292e+04 / 86
p0 7705 ± 5.955
10000
9500
9000
8500
8000
7500
7000
6500

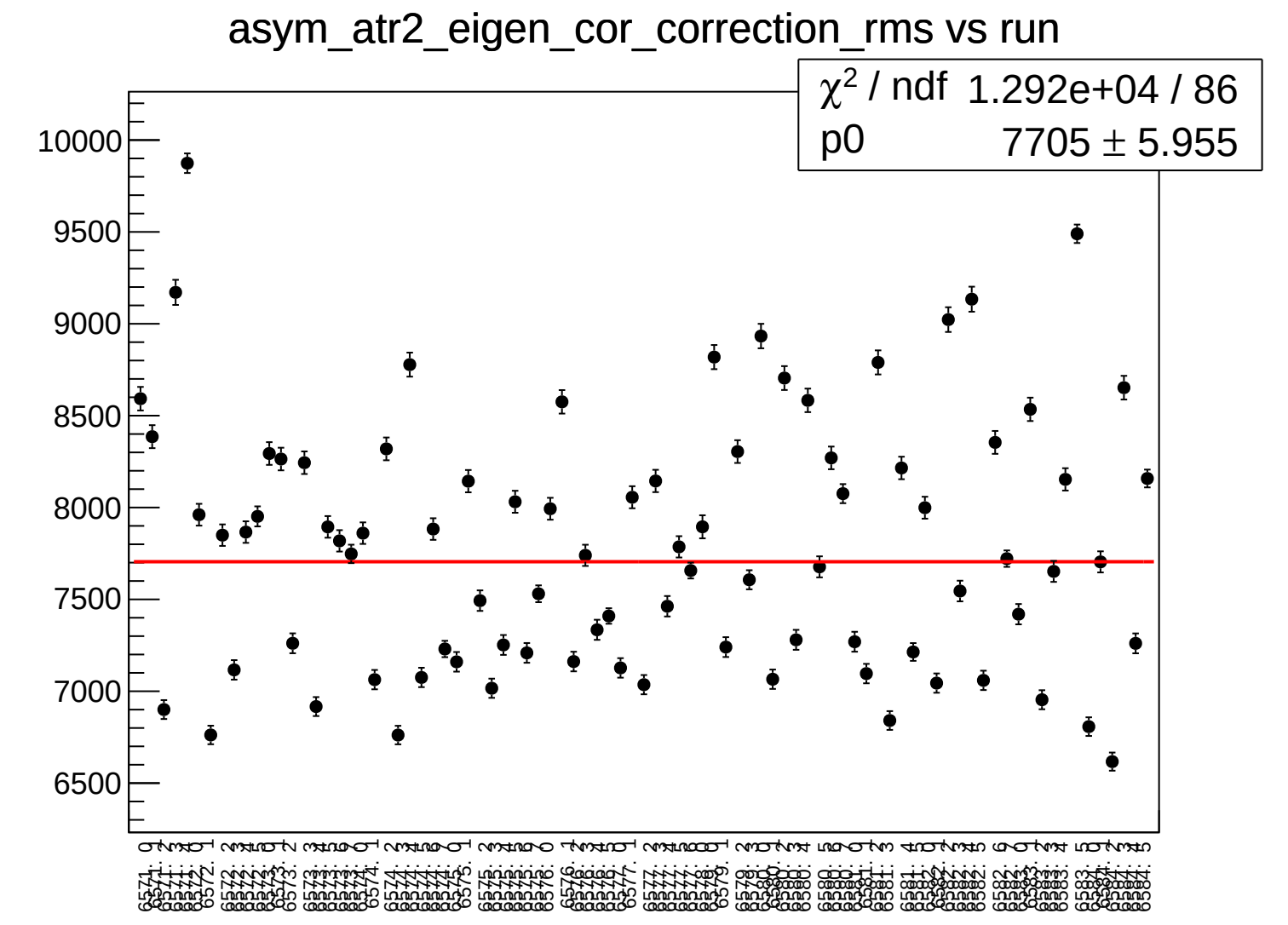

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 87.58 / 86
p0 −4063 ± 2896
100
50
0
−50
−100
pull
Entries 87
Mean −259.7
Std Dev 0
3
2
1
0
−1
−2

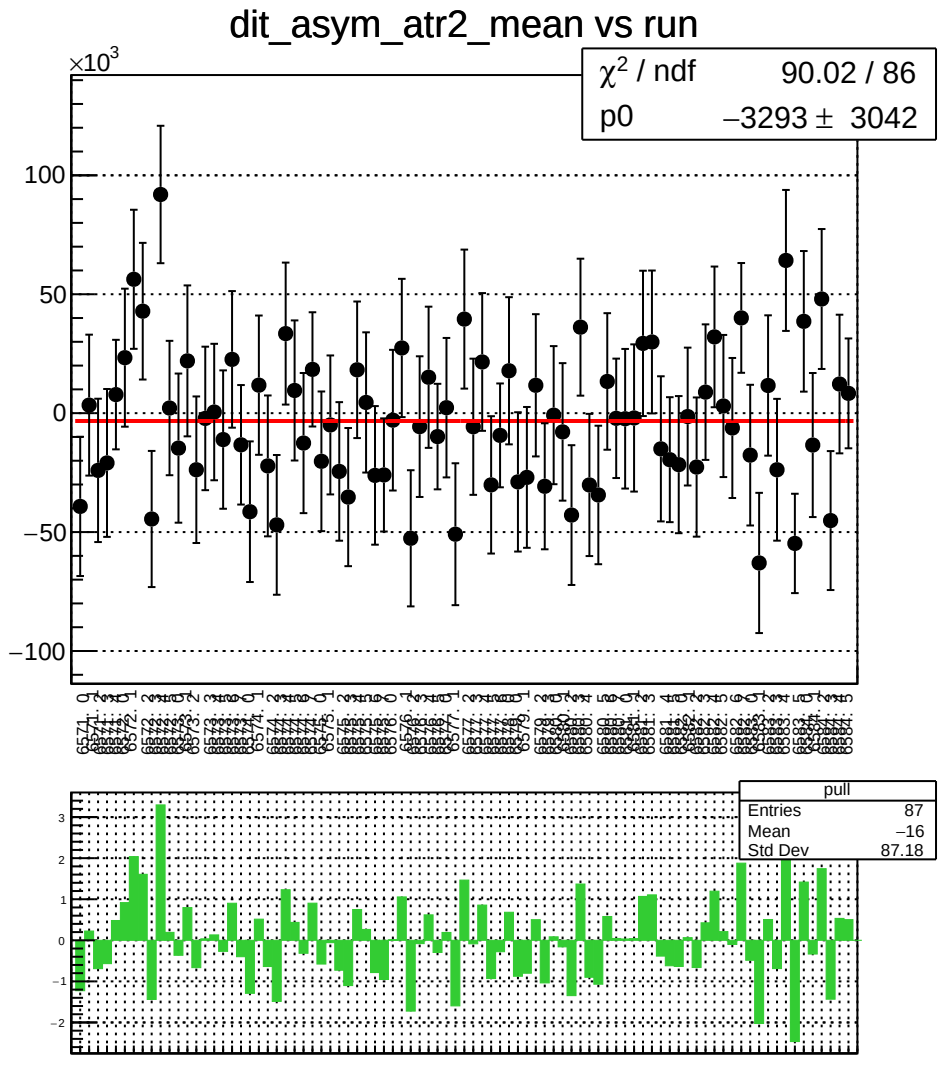

pull1D
Entries 87
Mean 0.003833
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

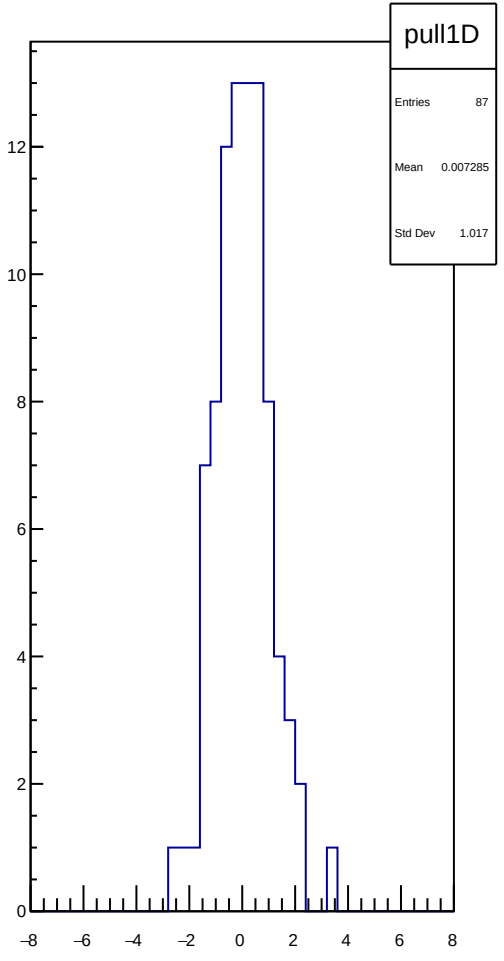

eigen_cor_asym_atr2_rms vs run
χ² / ndf 191.8 / 86
p0 2660 ± 2.048
2760
2740
2720
2700
2680
2660
2640
2620
2600
2580
2560

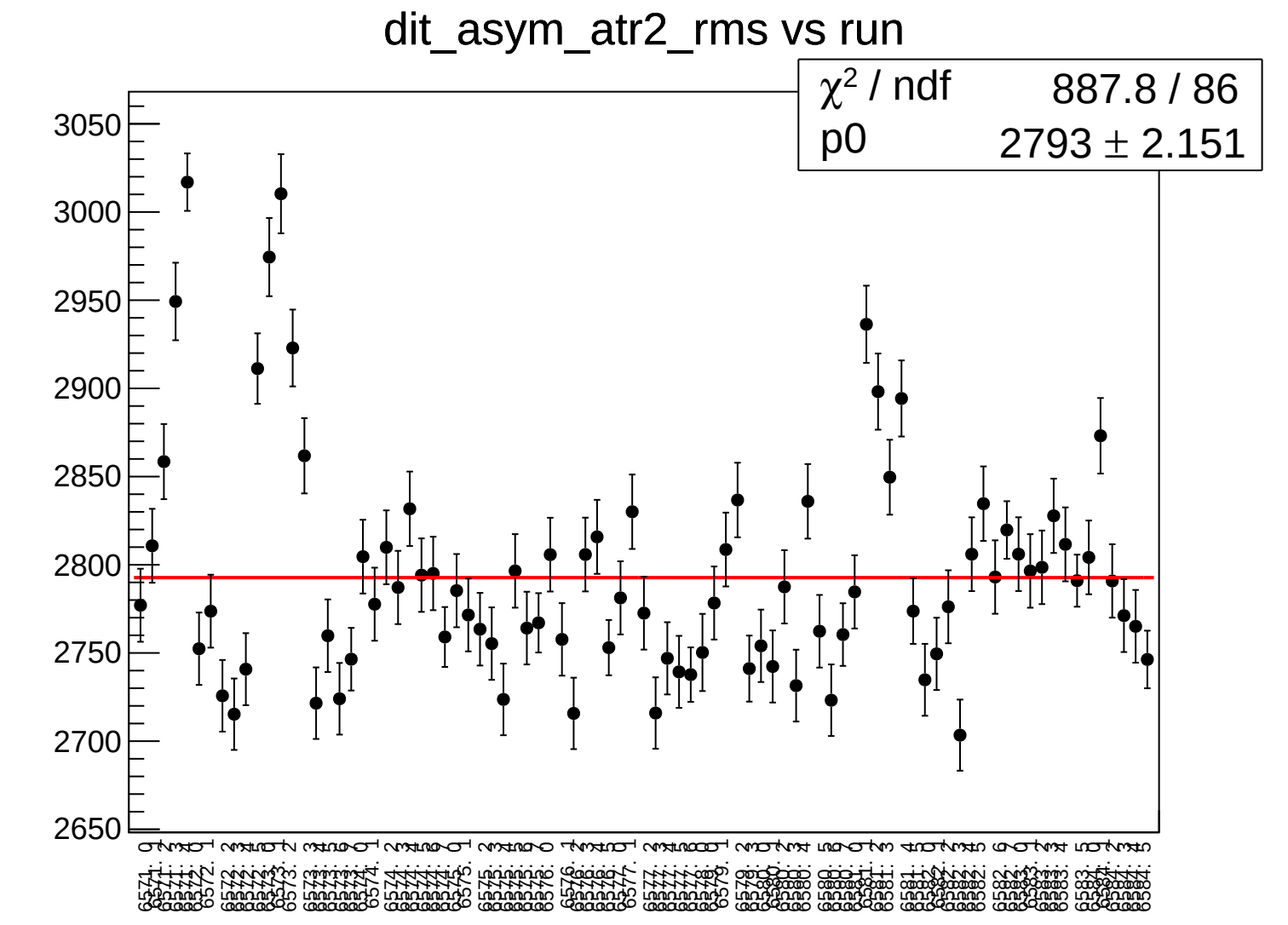

asym_atr2_eigen_cor_correction_mean vs run
χ² / ndf 98.7 / 86
p0 7694 ± 8422
×10³
200
100
0
−100
−200
−300
pull
Entries 87
Mean −1127
Std Dev 0
2
1
0
−1
−2
−3

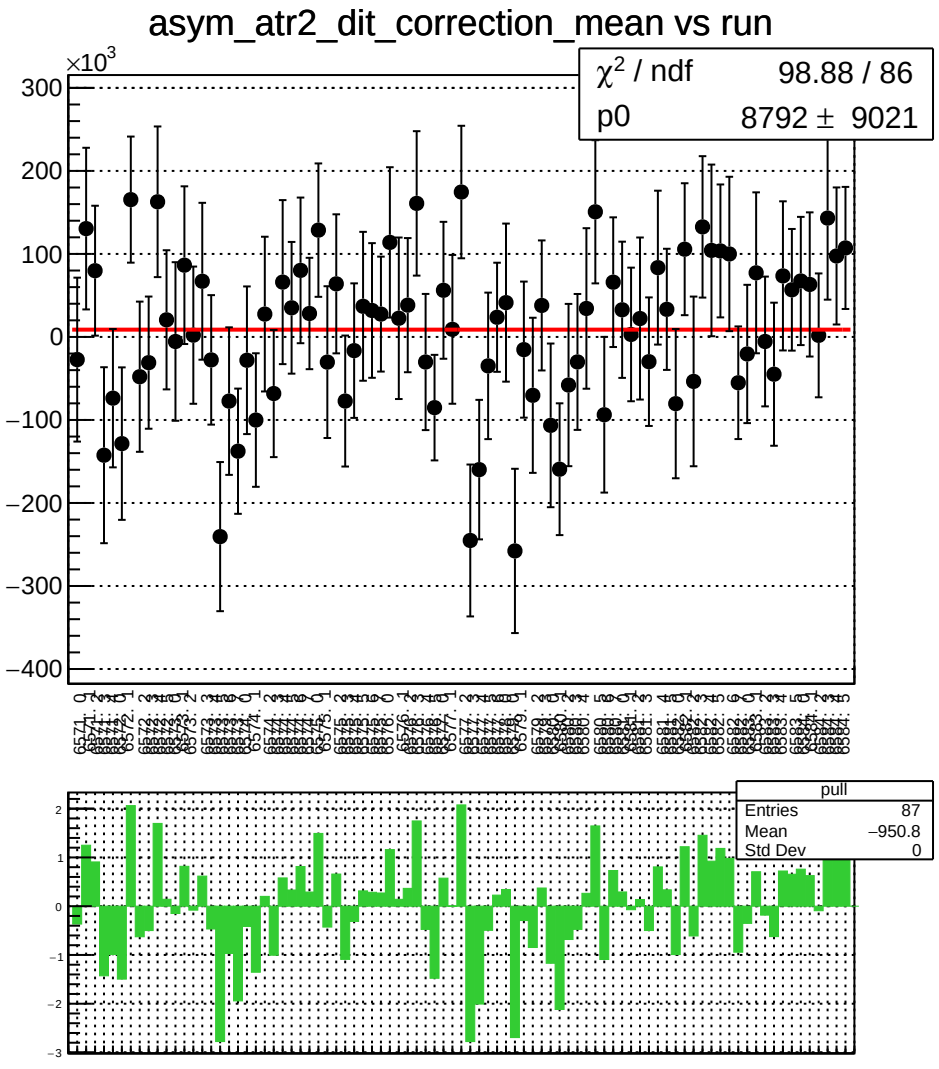

pull1D
Entries 87
Mean −0.003937
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

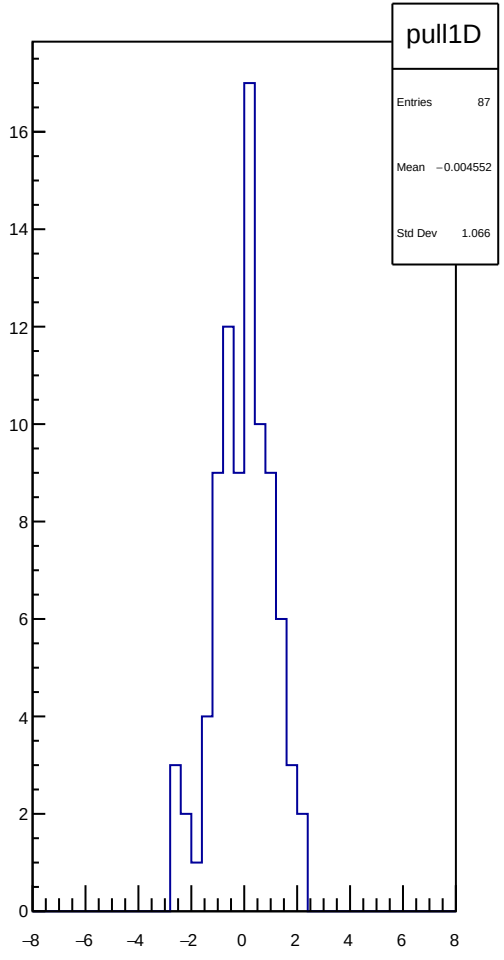

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.292e+04 / 86
p0 7705 ± 5.955
10000
9500
9000
8500
8000
7500
7000
6500

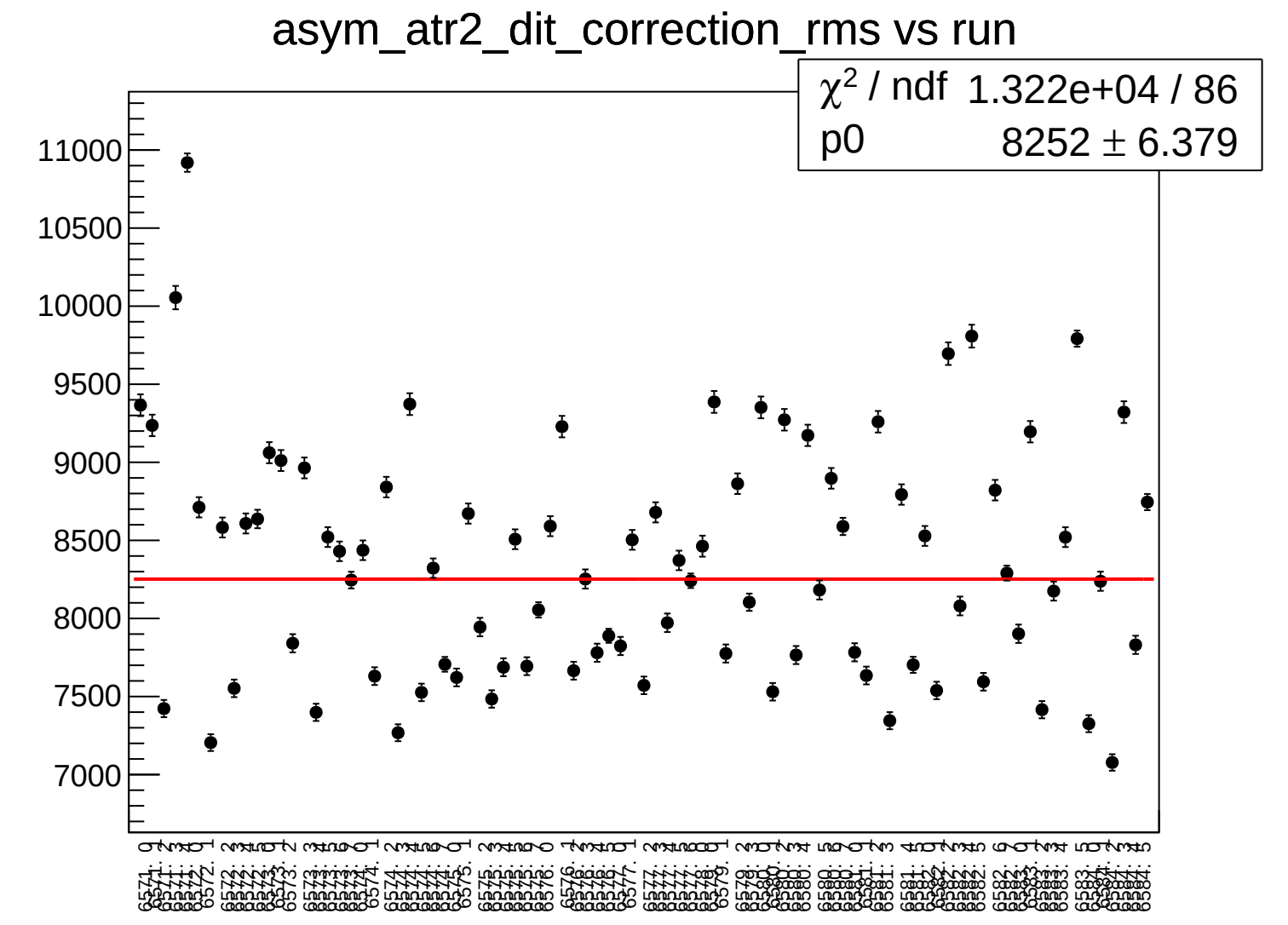

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 90.02 / 86
p0 −3293 ± 3042
100
50
0
−50
−100
pull
Entries 87
Mean −16
Std Dev 87.18
3
2
1
0
−1
−2

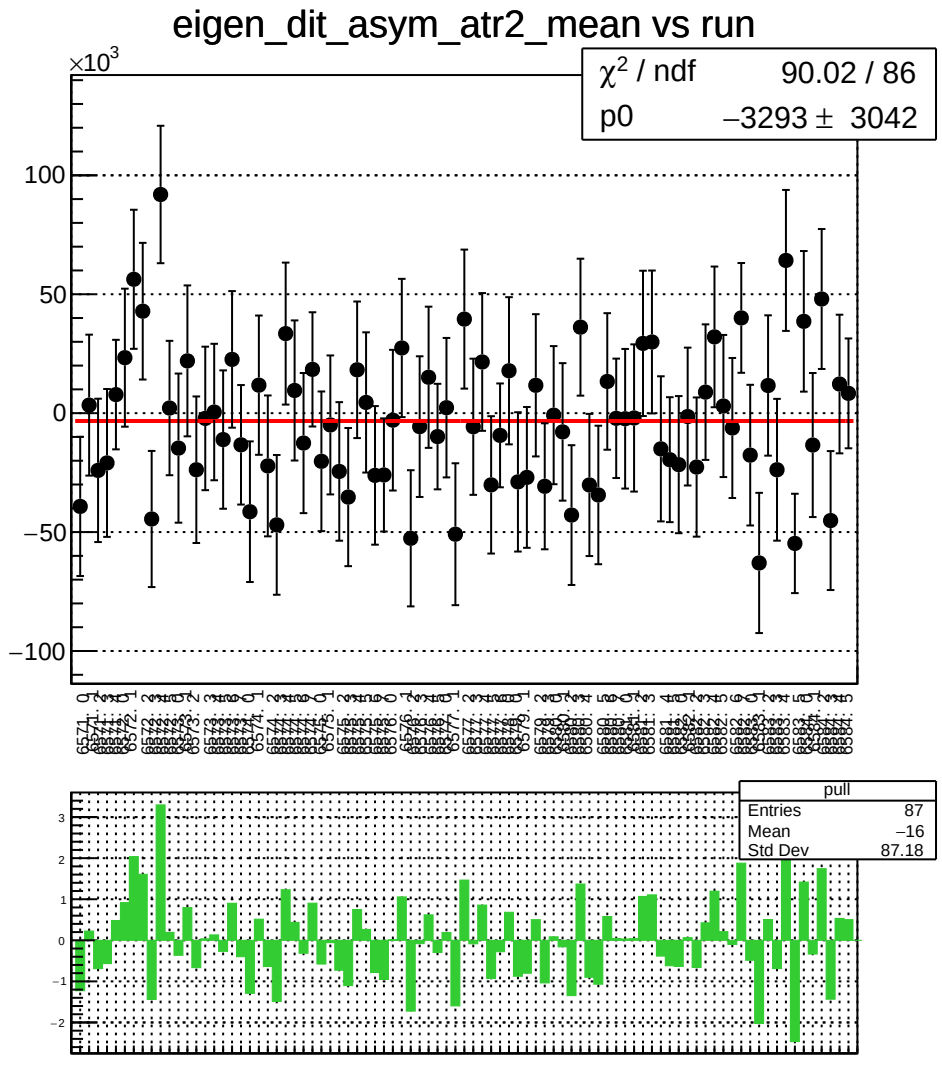

pull1D
Entries 87
Mean 0.007285
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

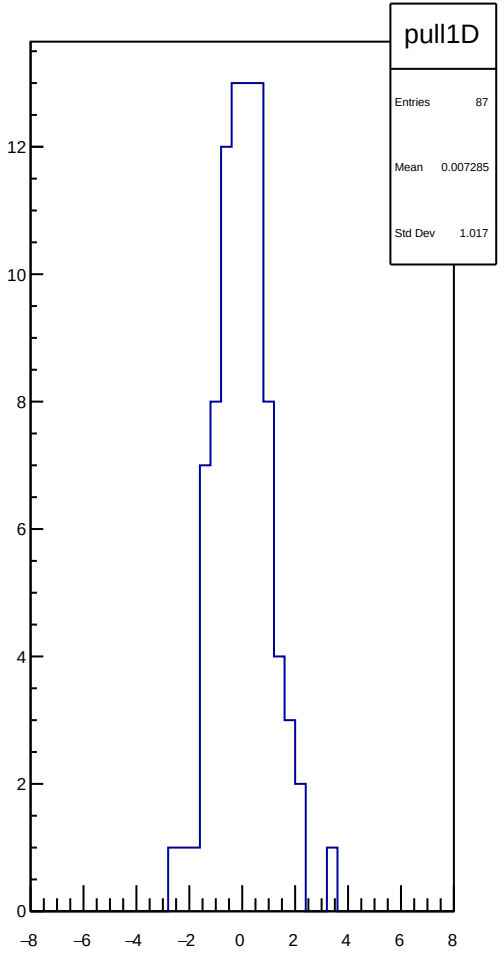

dit_asym_atr2_rms vs run
χ^2 / ndf 887.8 / 86
p0 2793 ± 2.151
3050
3000
2950
2900
2850
2800
2750
2700
2650

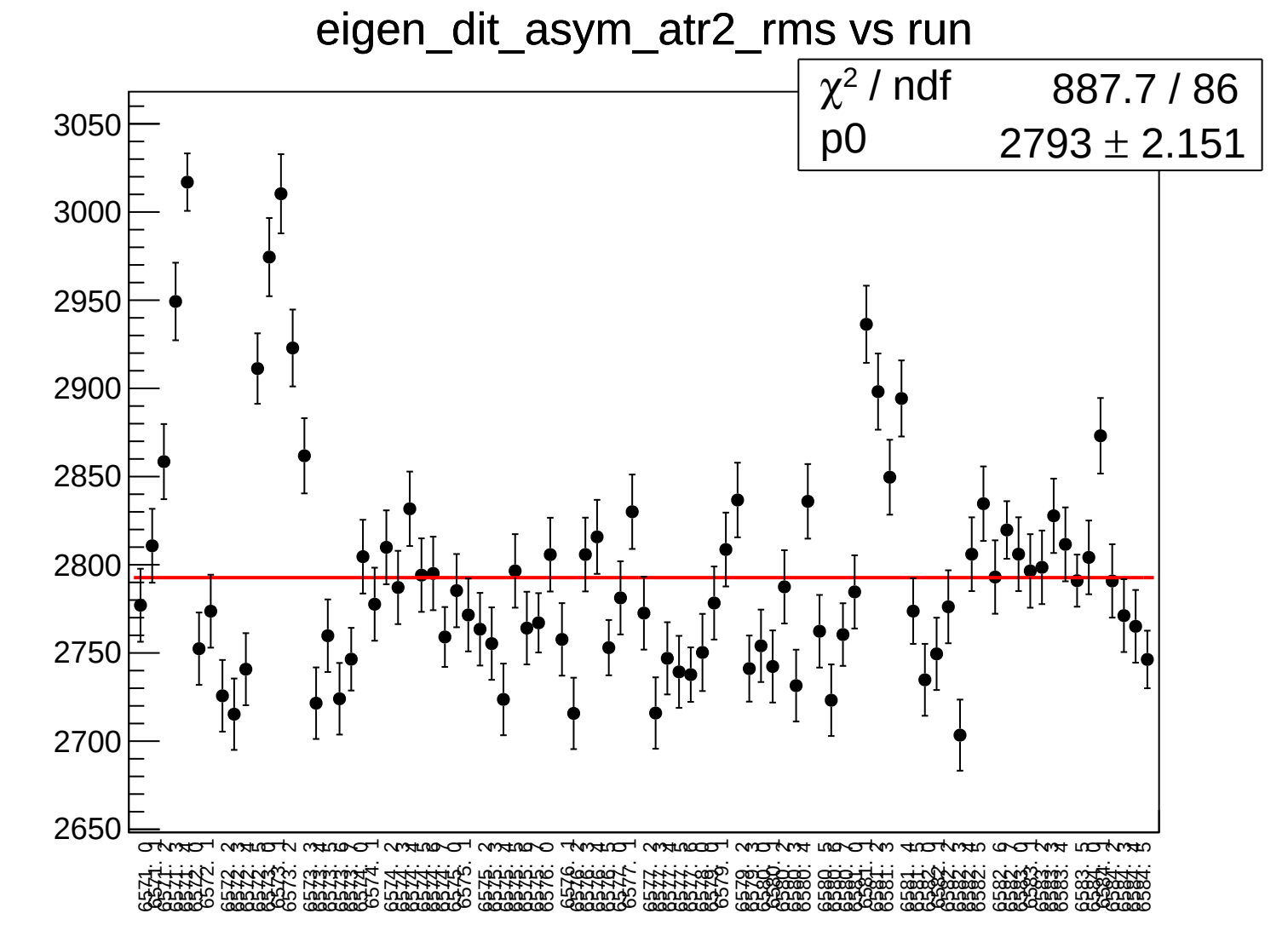

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 98.88 / 86
p0 8792 ± 9021
300
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean −950.8
Std Dev 0
2
1
0
−1
−2
−3

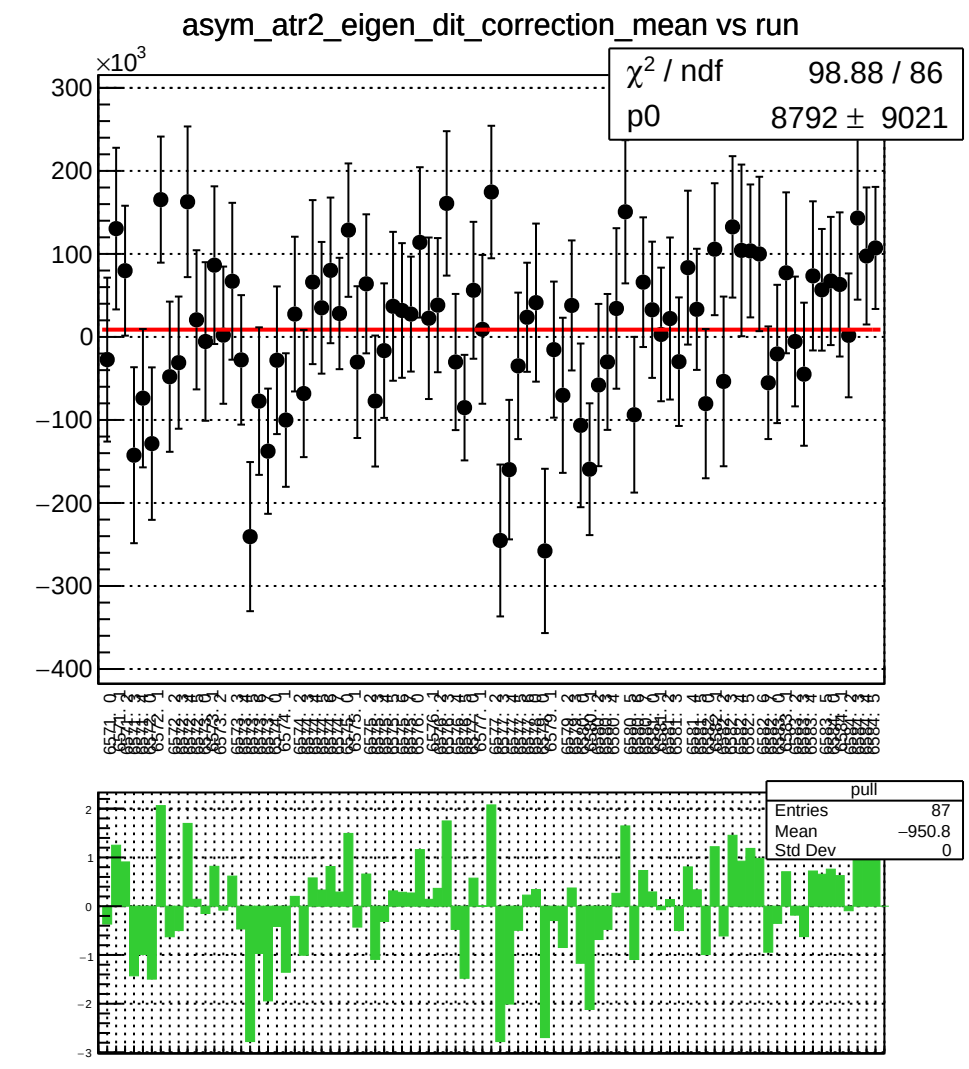

pull1D
Entries 87
Mean −0.004552
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

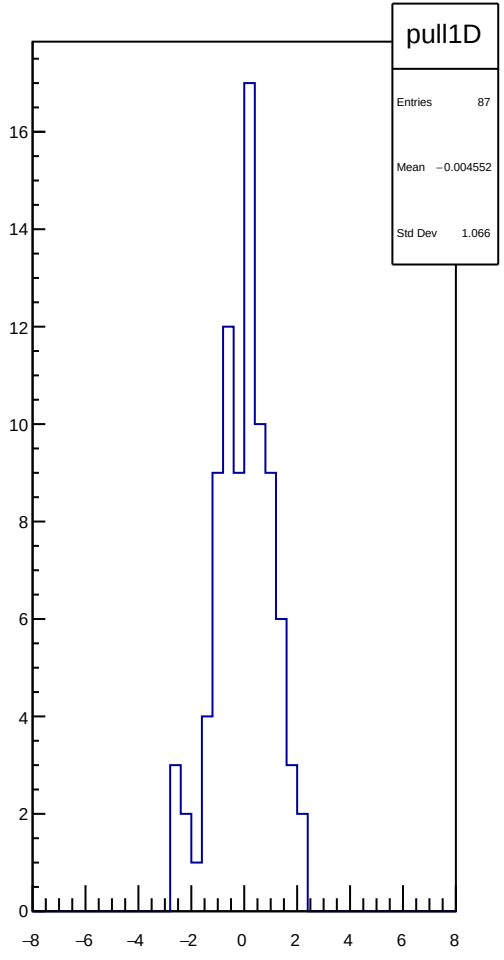

asym_atr2_dit_correction_rms vs run
χ² / ndf 1.322e+04 / 86
p0 8252 ± 6.379
11000
10500
10000
9500
9000
8500
8000
7500
7000

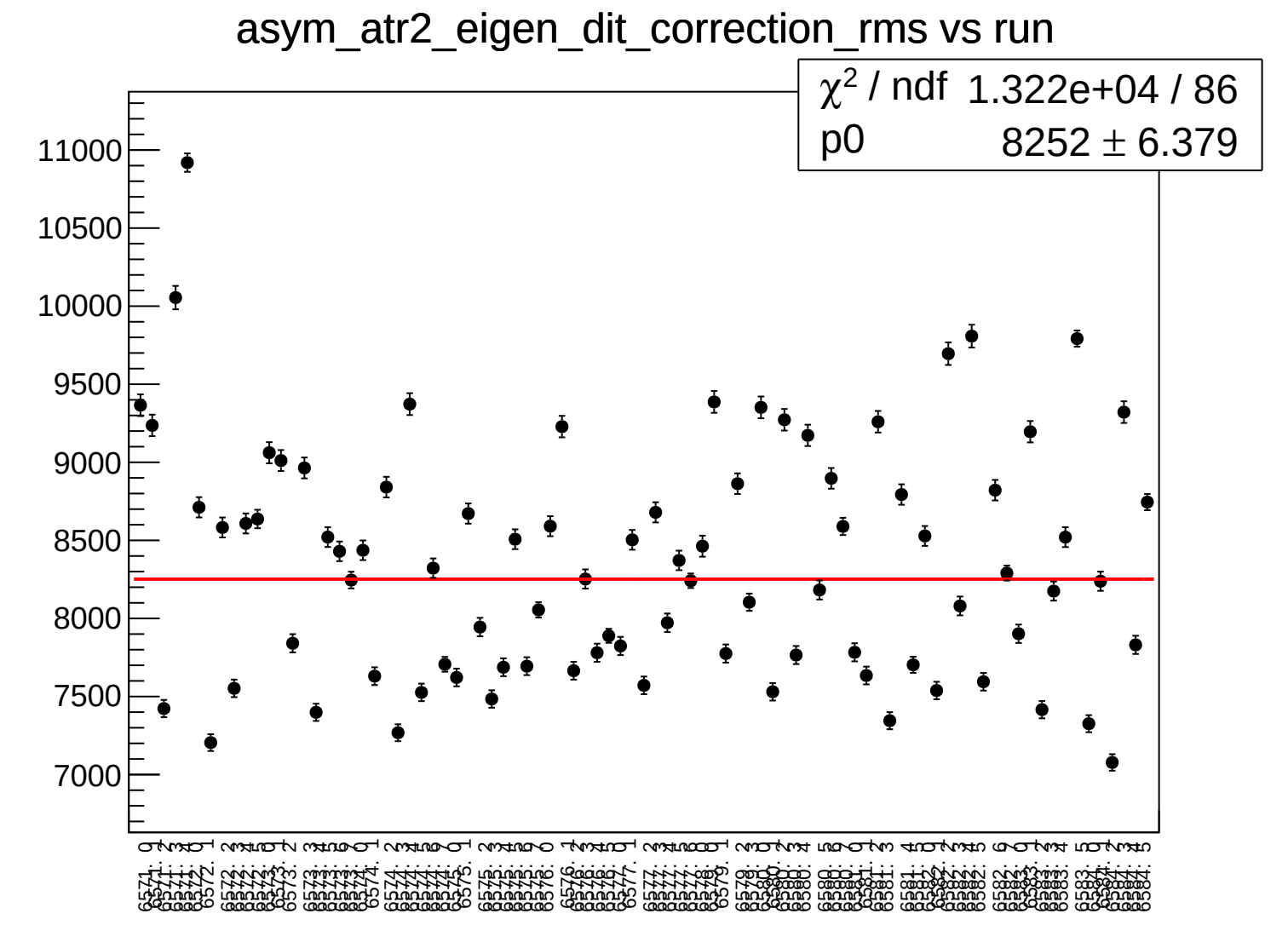

eigen_dit_asym_atr2_mean vs run
χ² / ndf 90.02 / 86
p0 −3293 ± 3042
pull
Entries 87
Mean −16
Std Dev 87.18

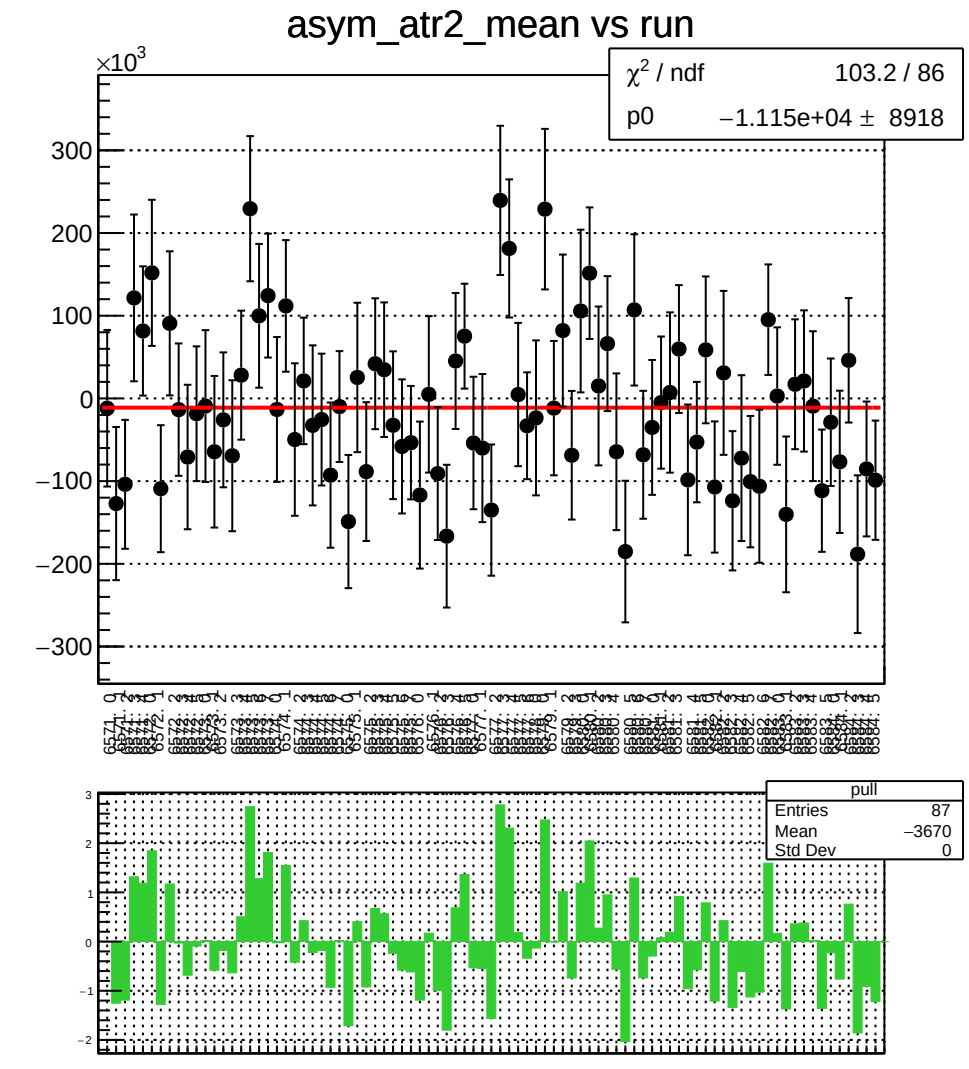

pull1D
Entries 87
Mean 0.007285
Std Dev 1.017

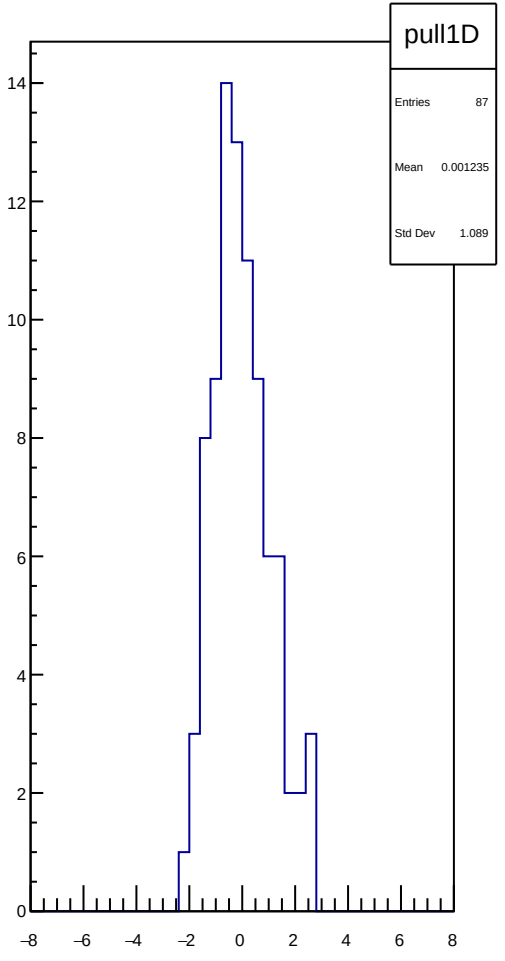

eigen_dit_asym_atr2_rms vs run
χ² / ndf 887.7 / 86
p0 2793 ± 2.151
3050
3000
2950
2900
2850
2800
2750
2700
2650

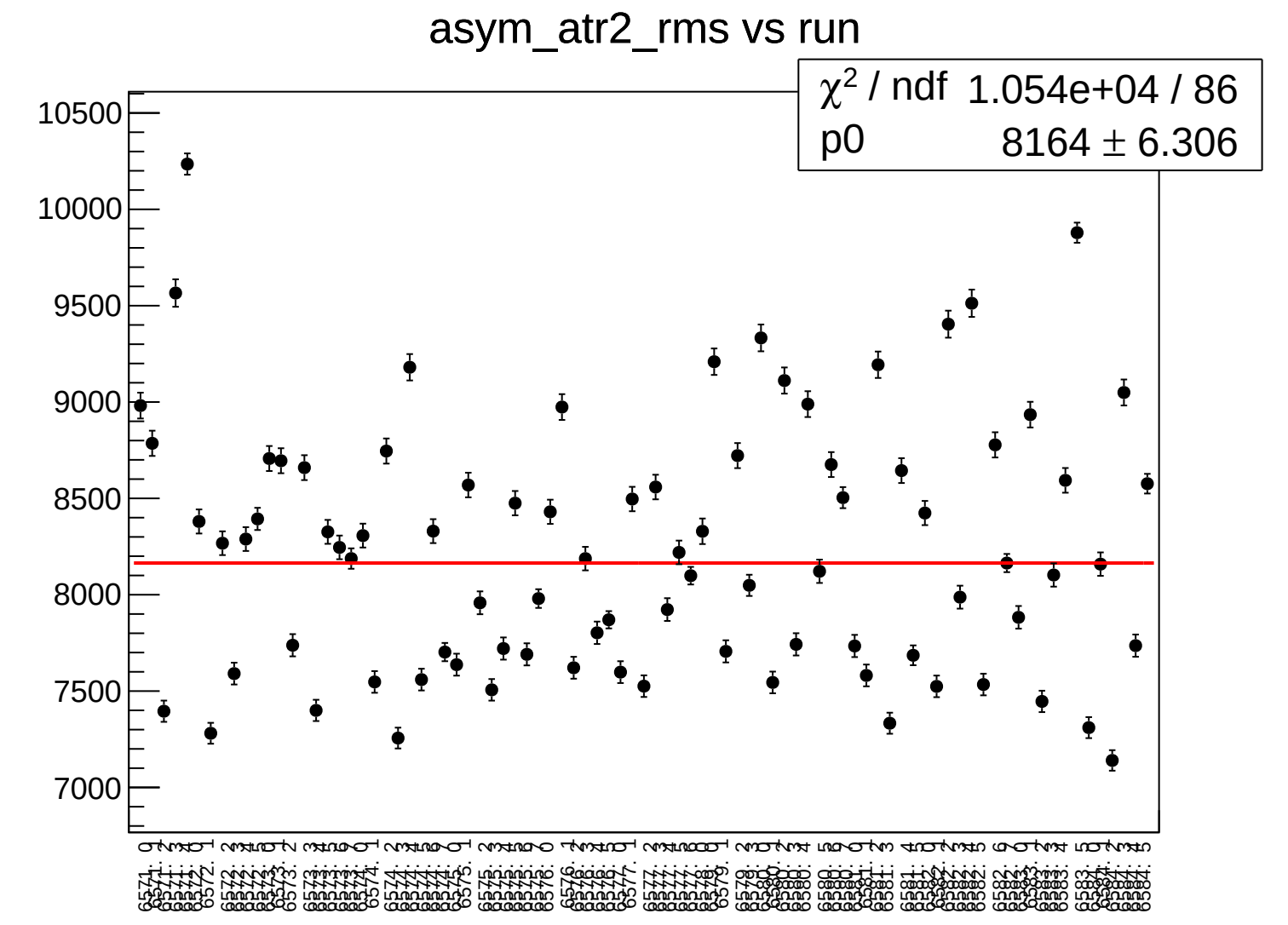

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.88 / 86
p0 8792 ± 9021
300
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean −950.8
Std Dev 0
2
1
0
−1
−2
−3

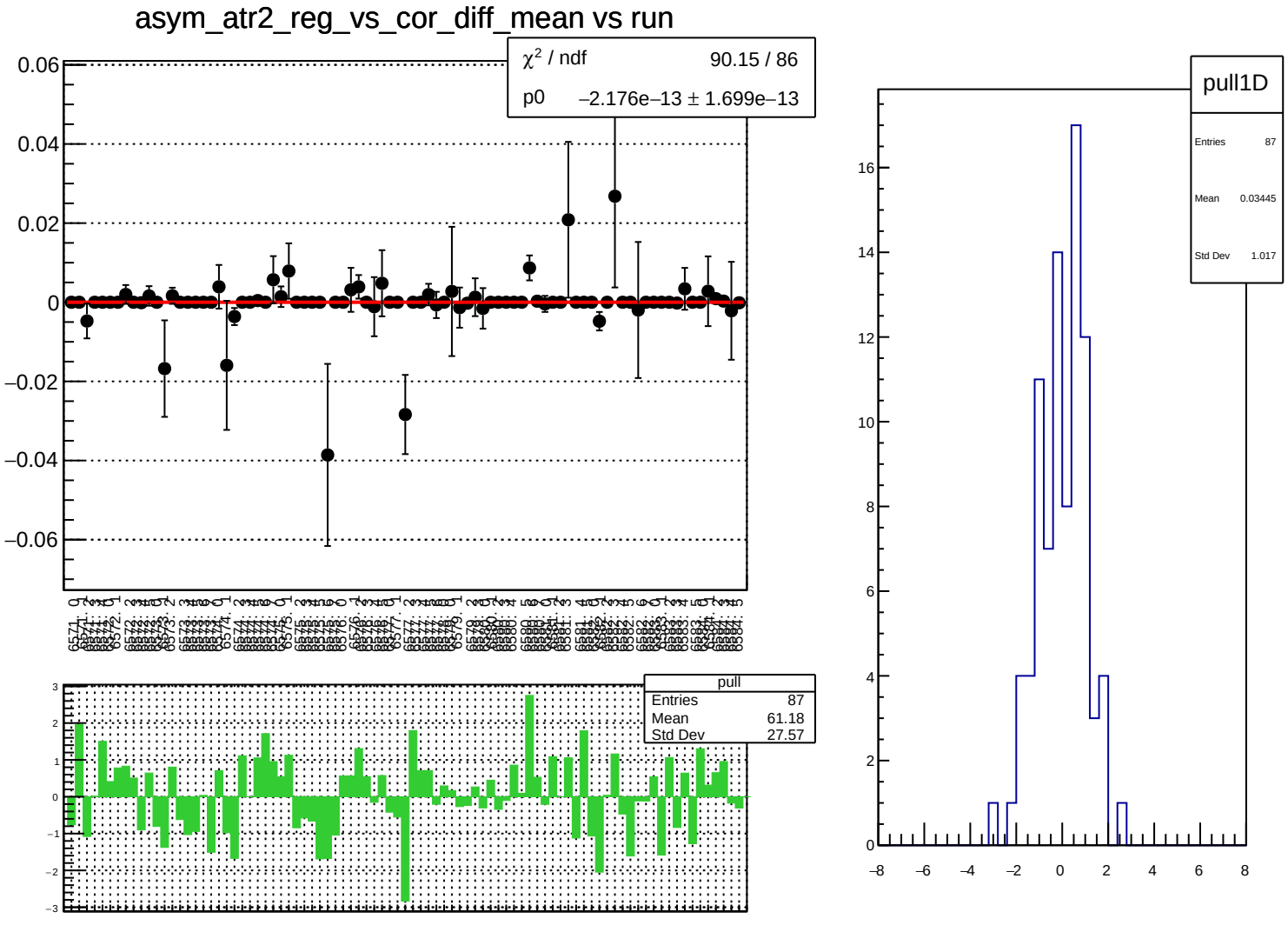

pull1D
Entries 87
Mean −0.004552
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

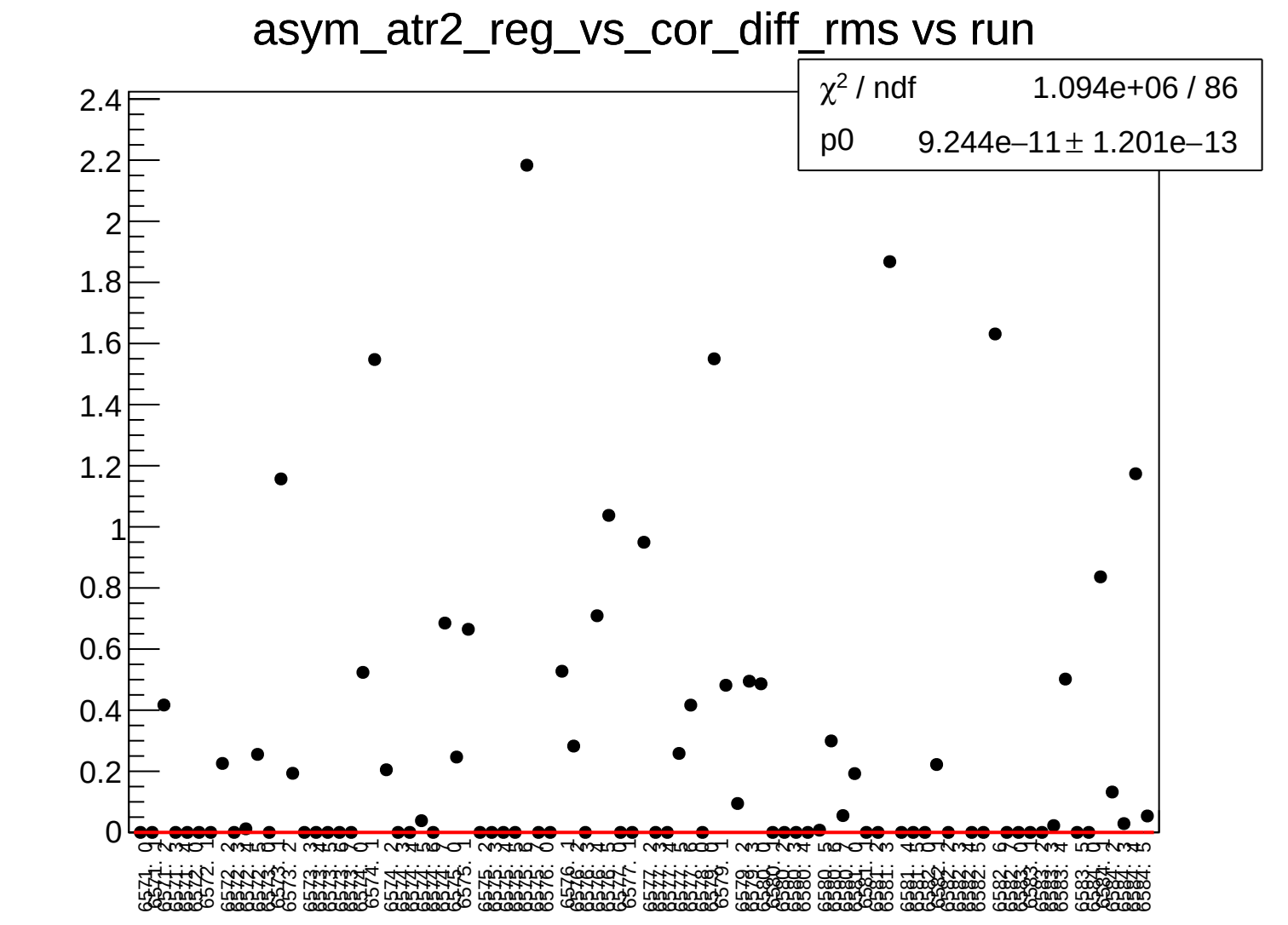

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1.322e+04 / 86
p0 8252 ± 6.379
11000
10500
10000
9500
9000
8500
8000
7500
7000

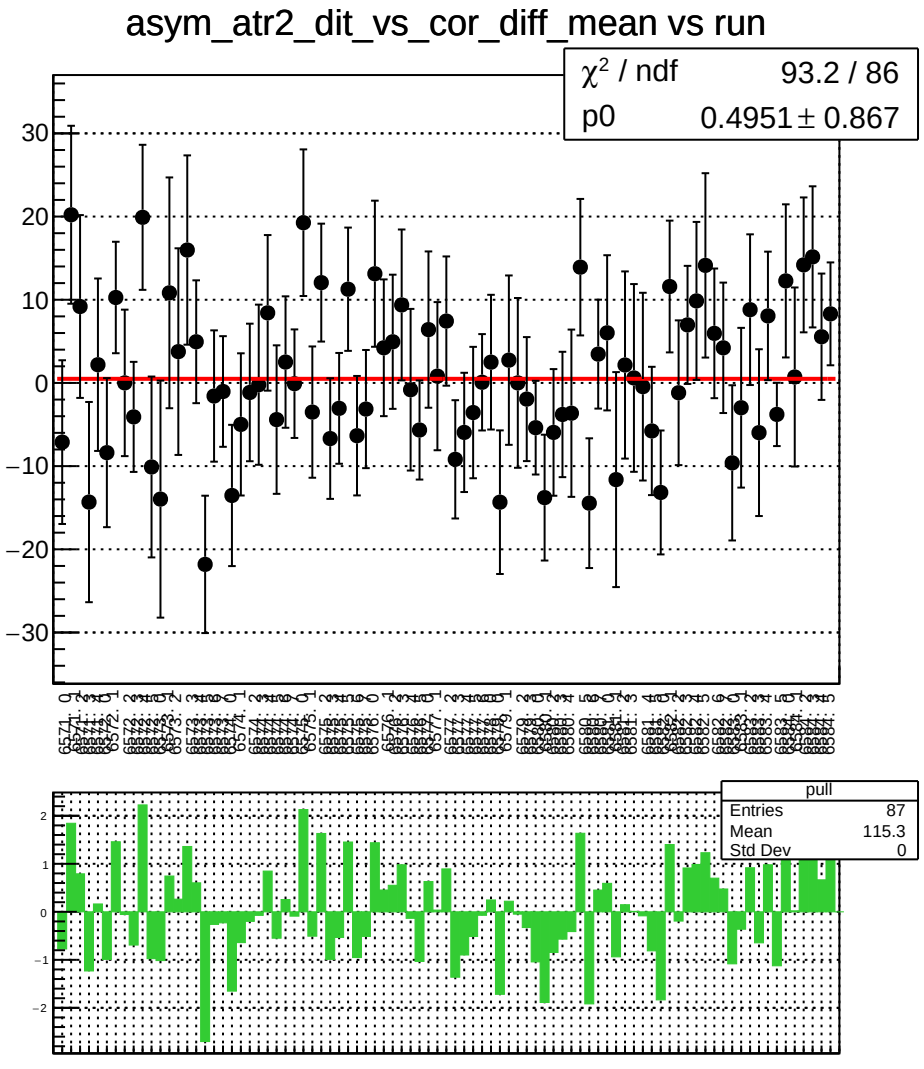

asym_atr2_mean vs run
×10^3
χ² / ndf 103.2 / 86
p0 −1.115e+04 ± 8918
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean −3670
Std Dev 0
3
2
1
0
−1
−2

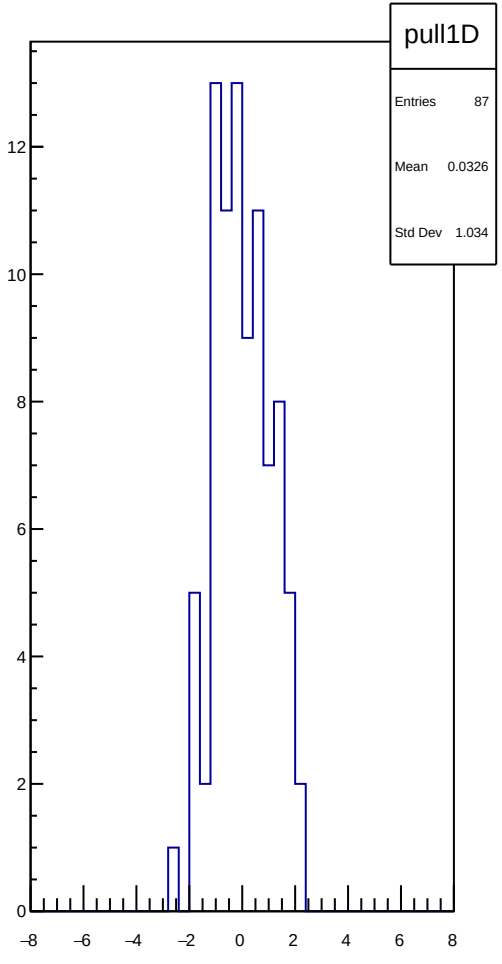

pull1D
Entries 87
Mean 0.001235
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

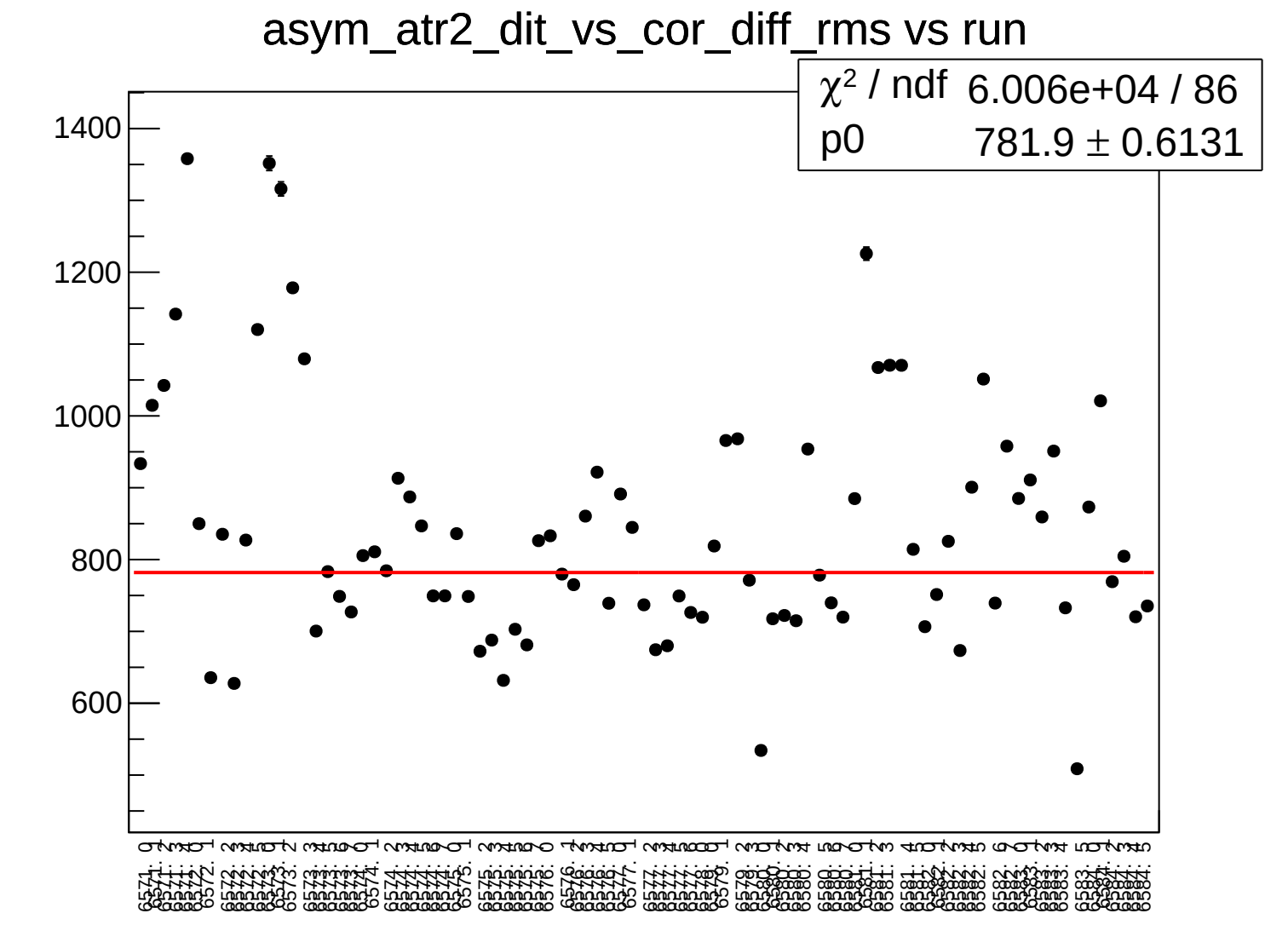

asym_atr2_rms vs run
χ² / ndf 1.054e+04 / 86
p0 8164 ± 6.306
10500
10000
9500
9000
8500
8000
7500
7000

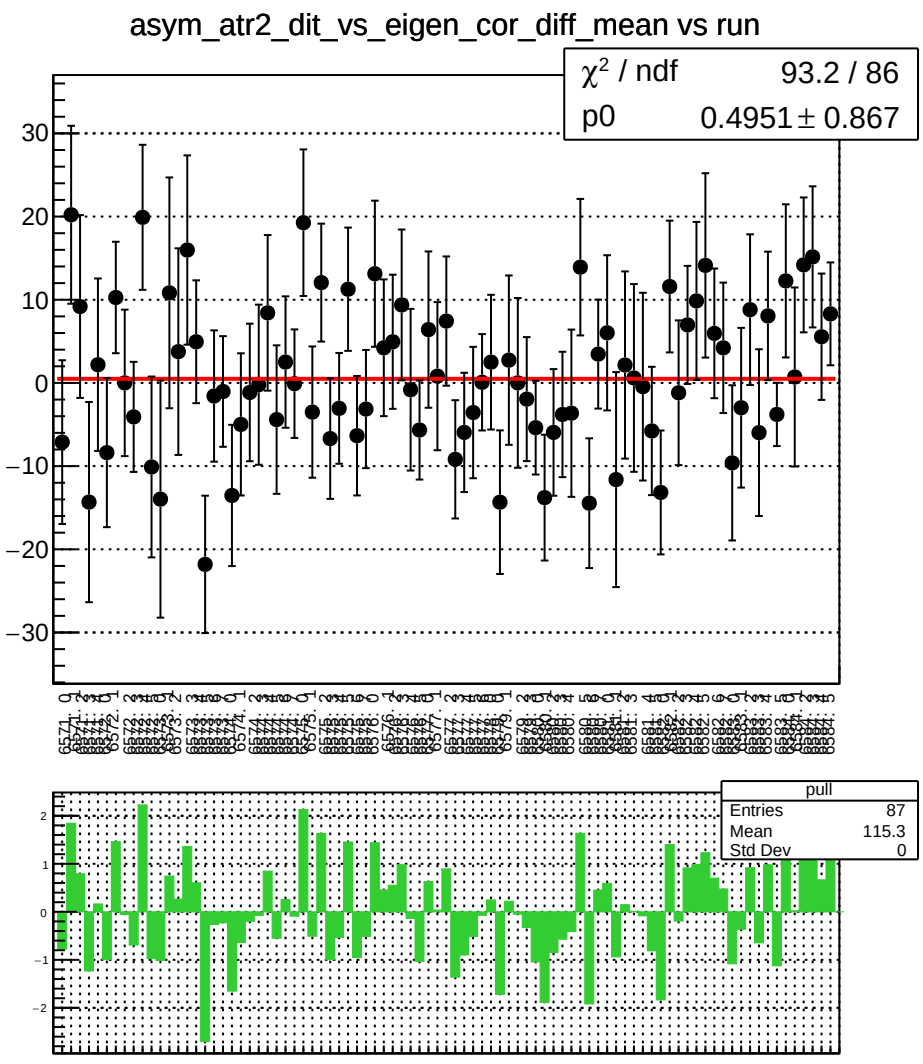

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 90.15 / 86
p0 −2.176e−13 ± 1.699e−13
pull
Entries 87
Mean 61.18
Std Dev 27.57
pull1D
Entries 87
Mean 0.03445
Std Dev 1.017

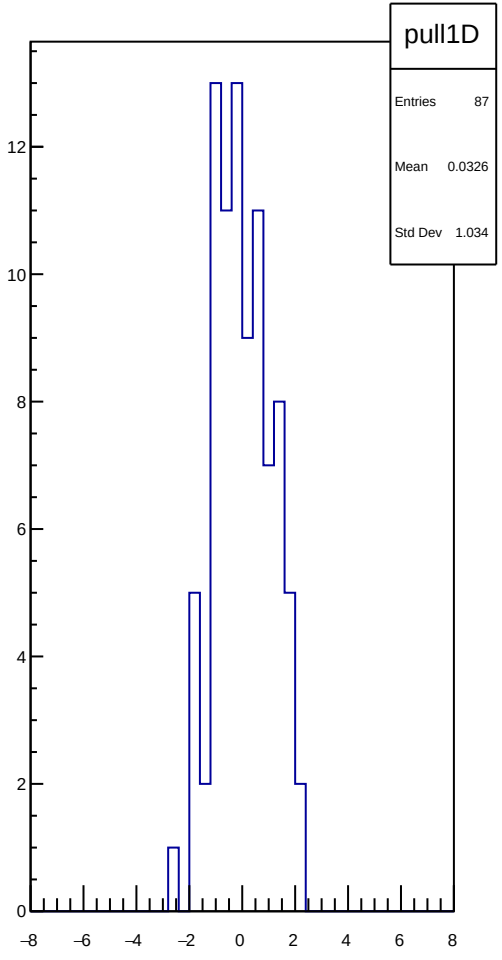

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.094e+06 / 86
p0 9.244e−11 ± 1.201e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

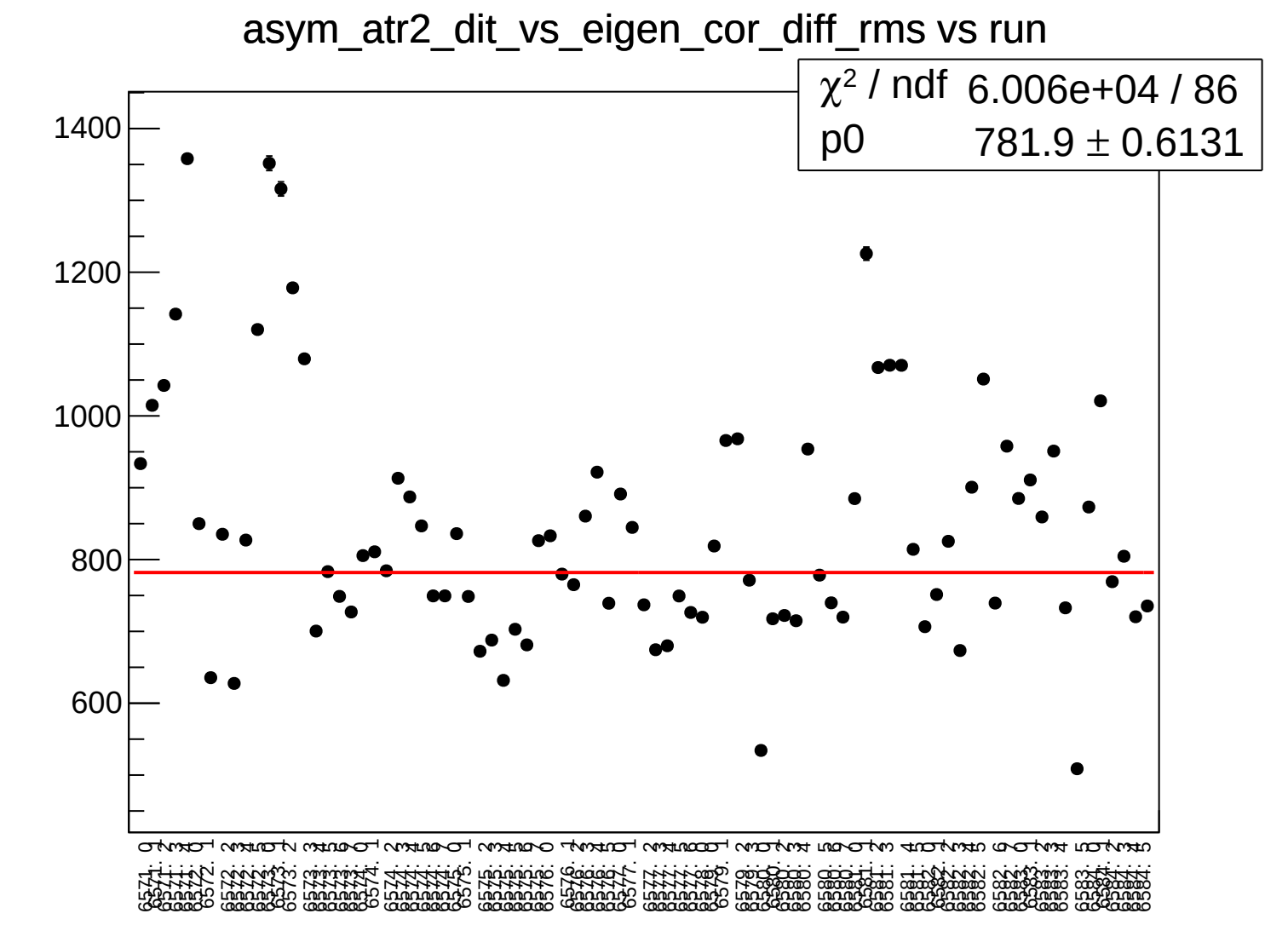

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 93.2 / 86
p0 0.4951 ± 0.867
pull
Entries 87
Mean 115.3
Std Dev 0

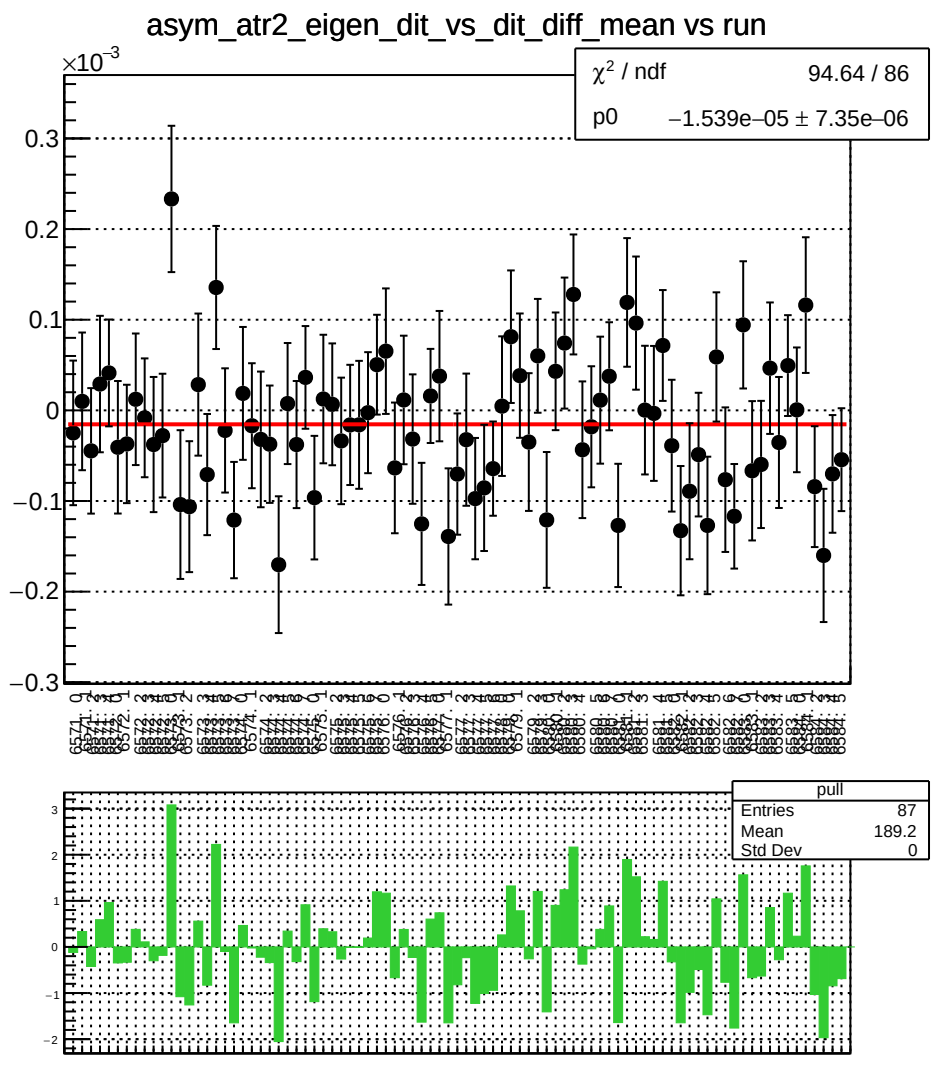

pull1D
Entries 87
Mean 0.0326
Std Dev 1.034

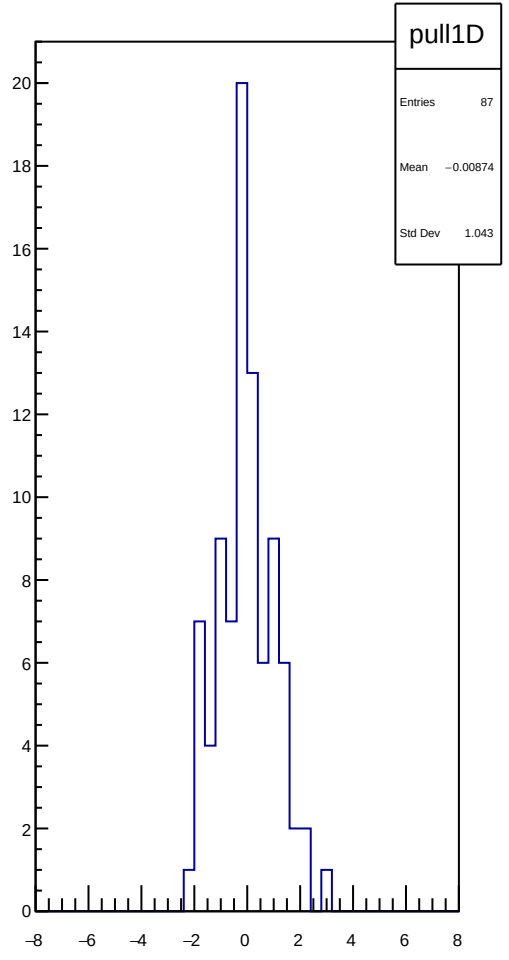

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.006e+04 / 86
p0 781.9 ± 0.6131
1400
1200
1000
800
600

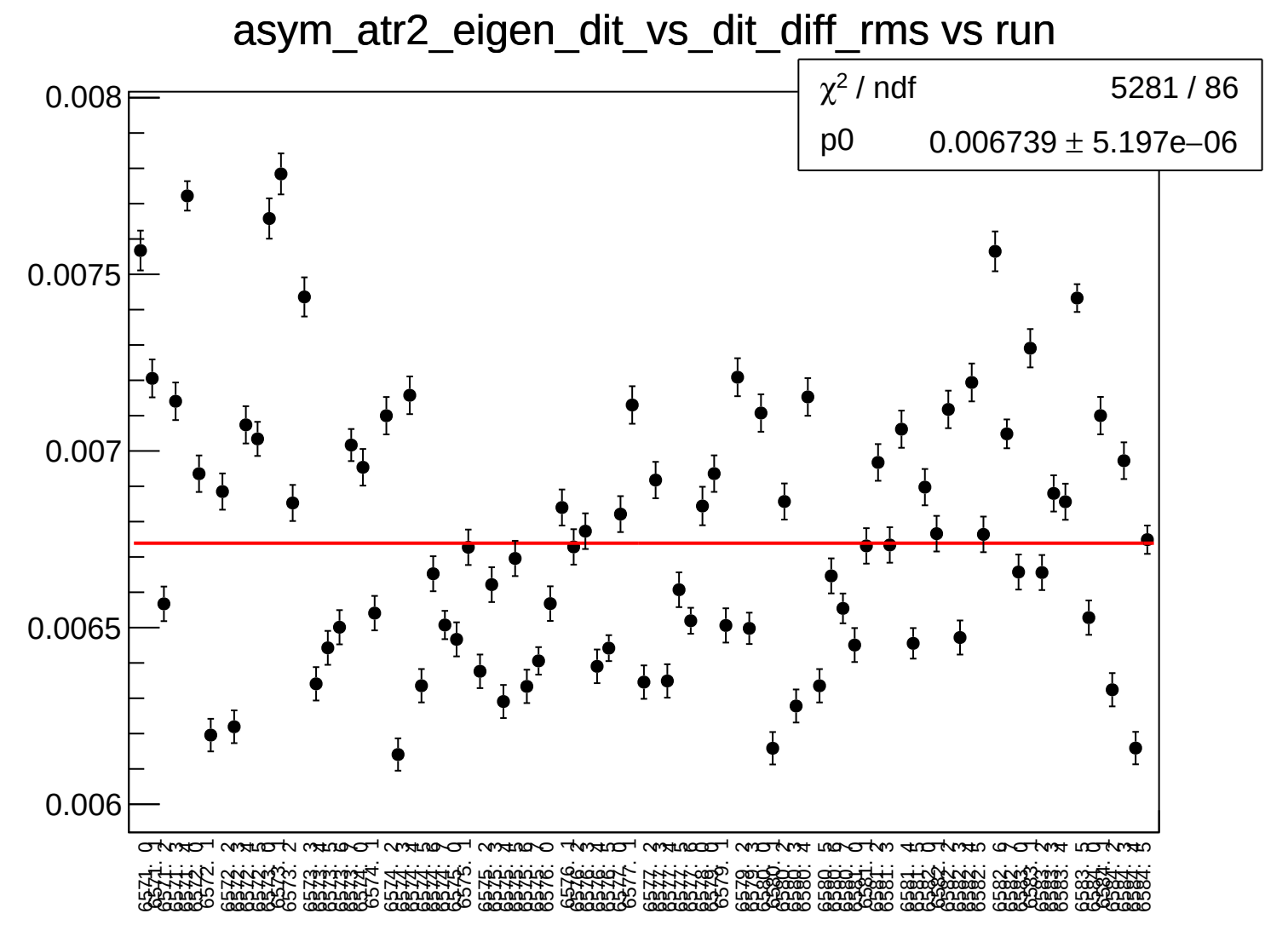

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.2 / 86
p0 0.4951 ± 0.867
pull
Entries 87
Mean 115.3
Std Dev 0

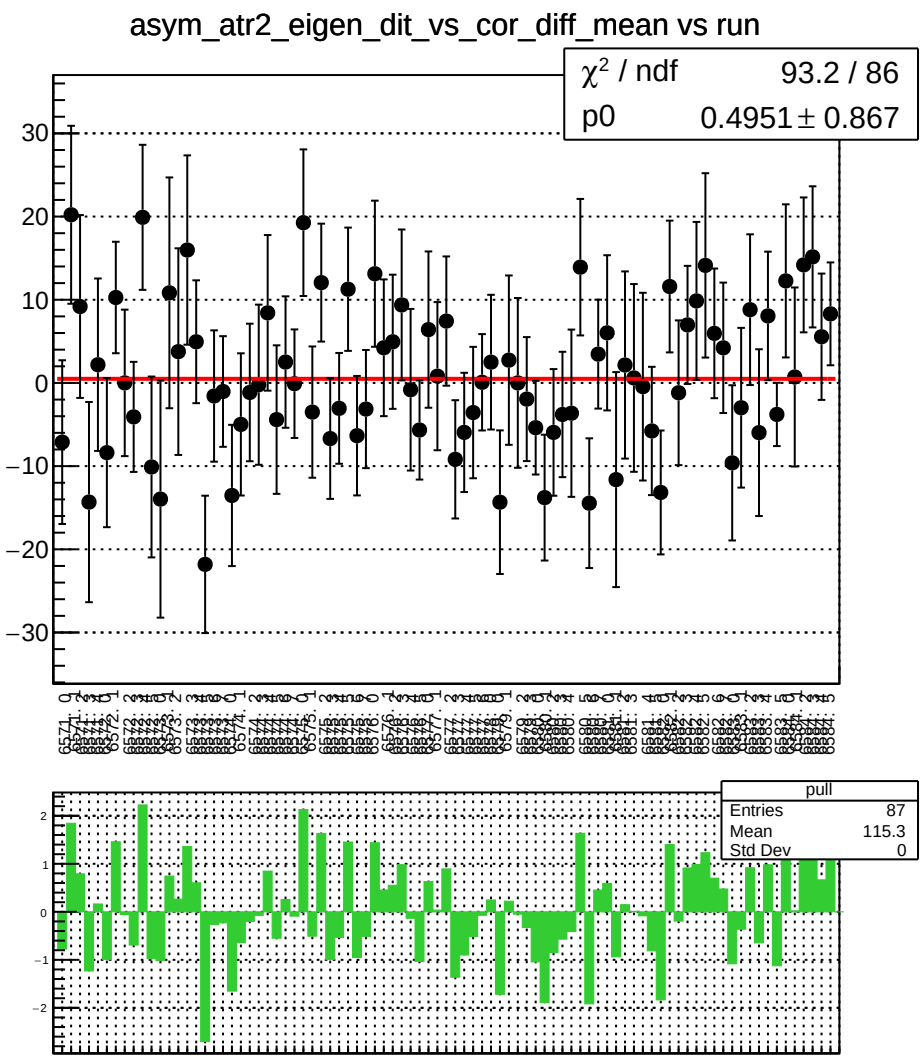

pull1D
Entries 87
Mean 0.0326
Std Dev 1.034

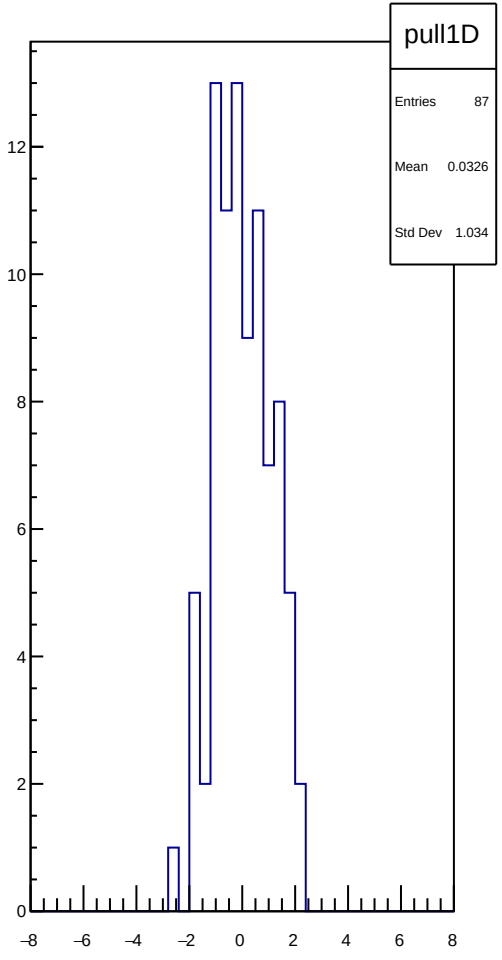

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.006e+04 / 86
p0 781.9 ± 0.6131
1400
1200
1000
800
600

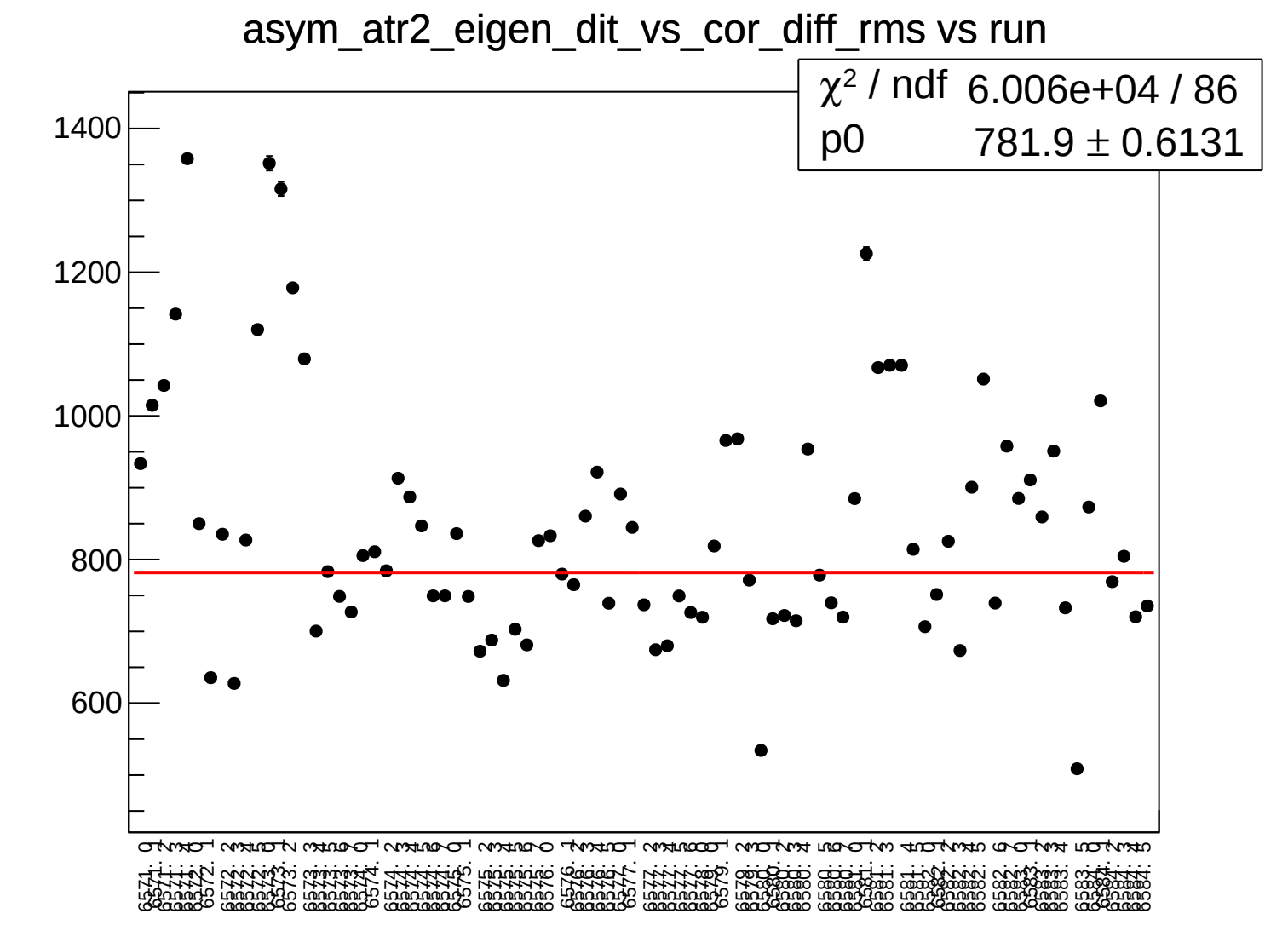

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.64 / 86
p0 −1.539e−05 ± 7.35e−06
pull
Entries 87
Mean 189.2
Std Dev 0

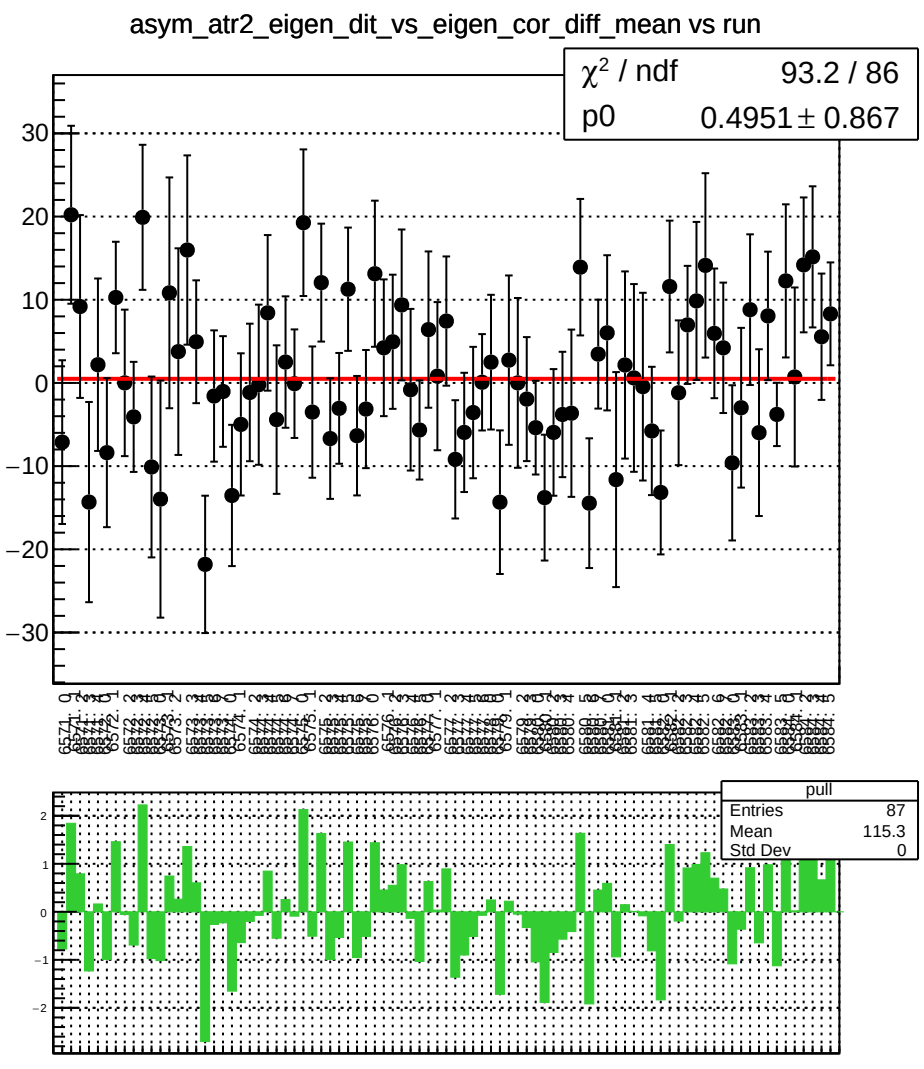

pull1D
Entries 87
Mean −0.00874
Std Dev 1.043

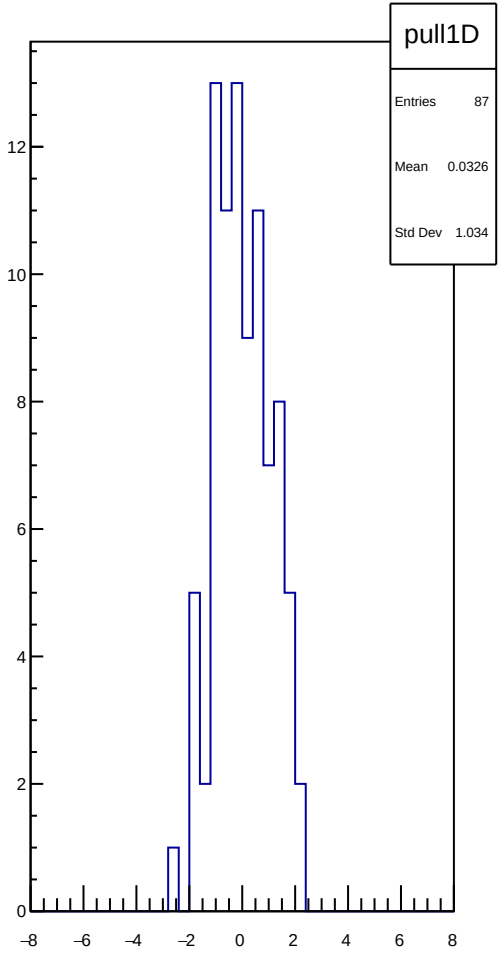

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5281 / 86
p0 0.006739 ± 5.197e−06
0.008
0.0075
0.007
0.0065
0.006

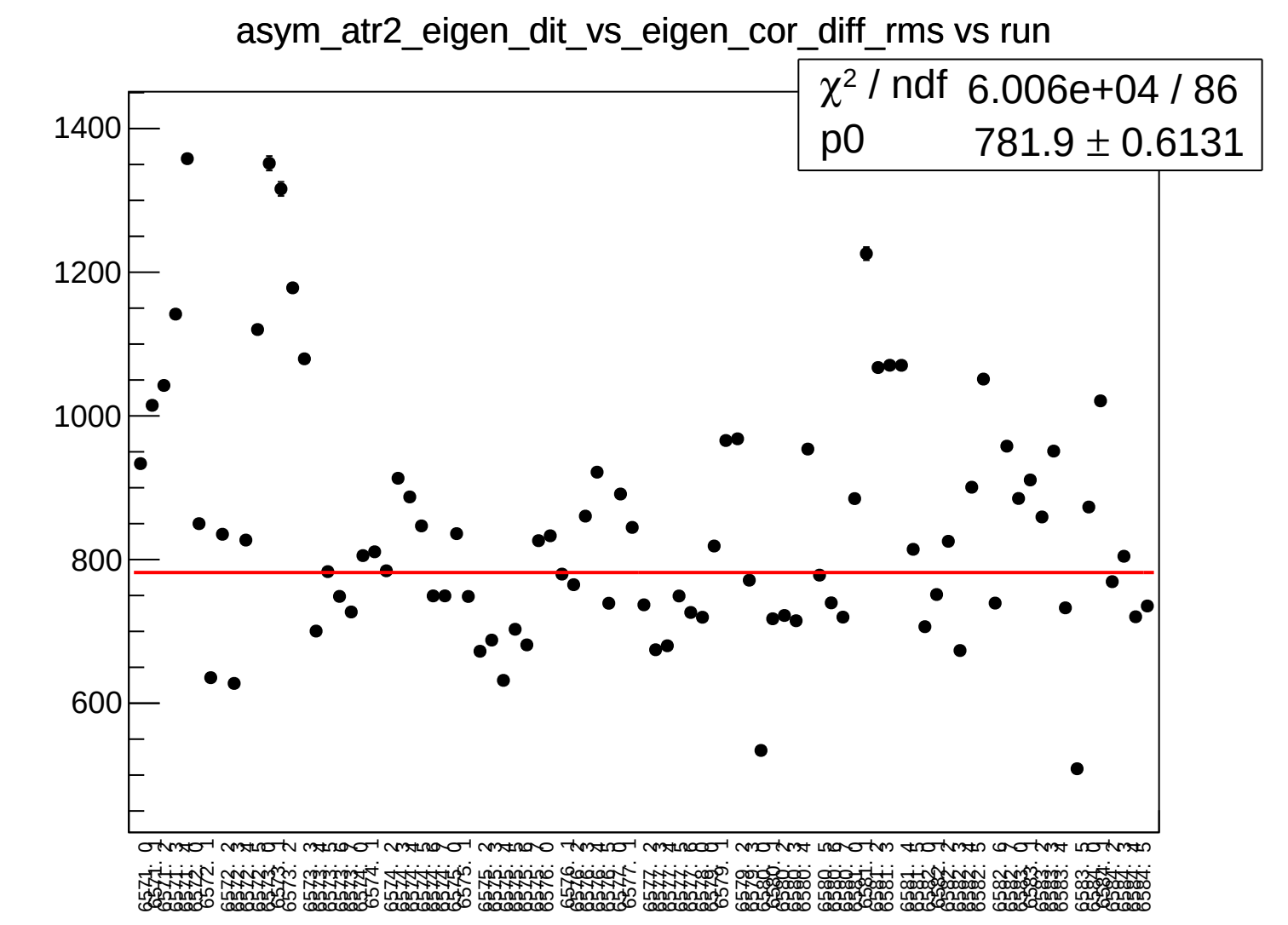

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.2 / 86
p0 0.4951 ± 0.867
pull
Entries 87
Mean 115.3
Std Dev 0

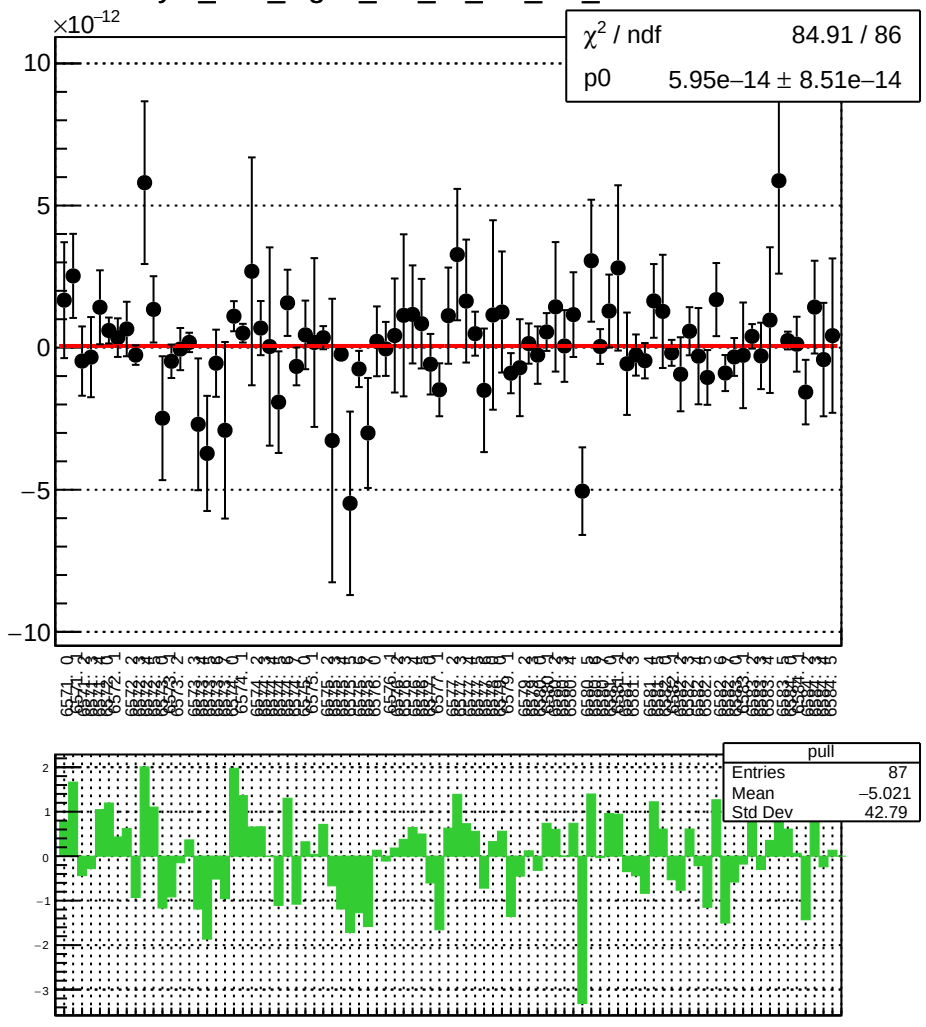

pull1D
Entries 87
Mean 0.0326
Std Dev 1.034

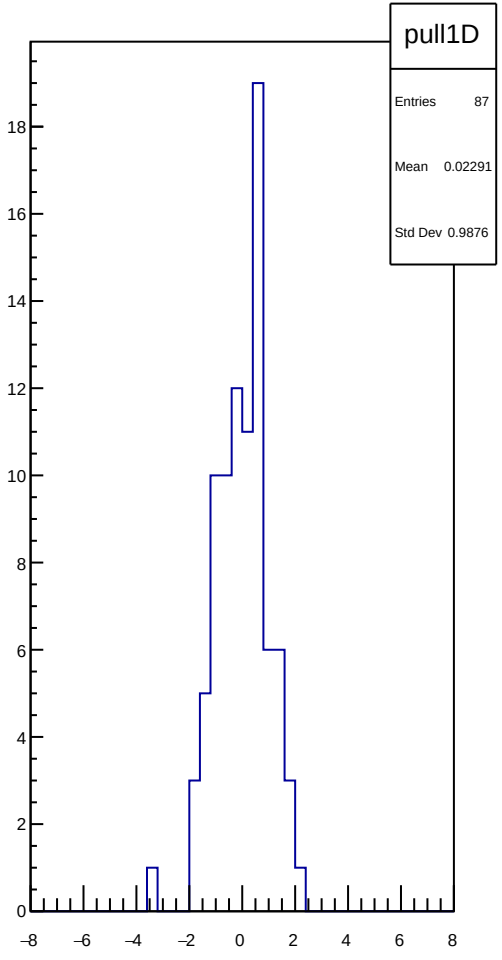

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.006e+04 / 86
p0 781.9 ± 0.6131
1400
1200
1000
800
600

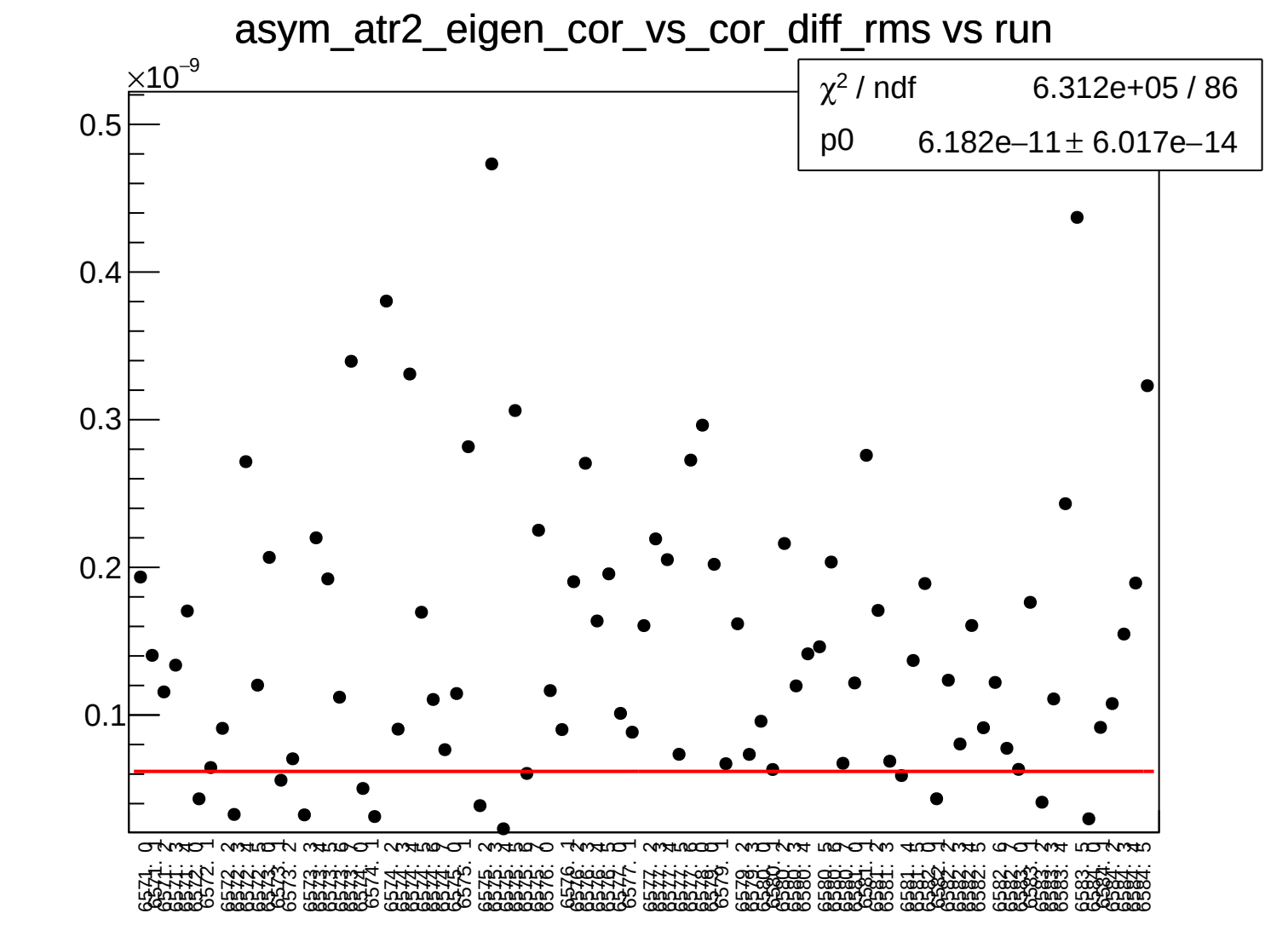

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.2 / 86
p0 0.4951 ± 0.867
pull
Entries 87
Mean 115.3
Std Dev 0

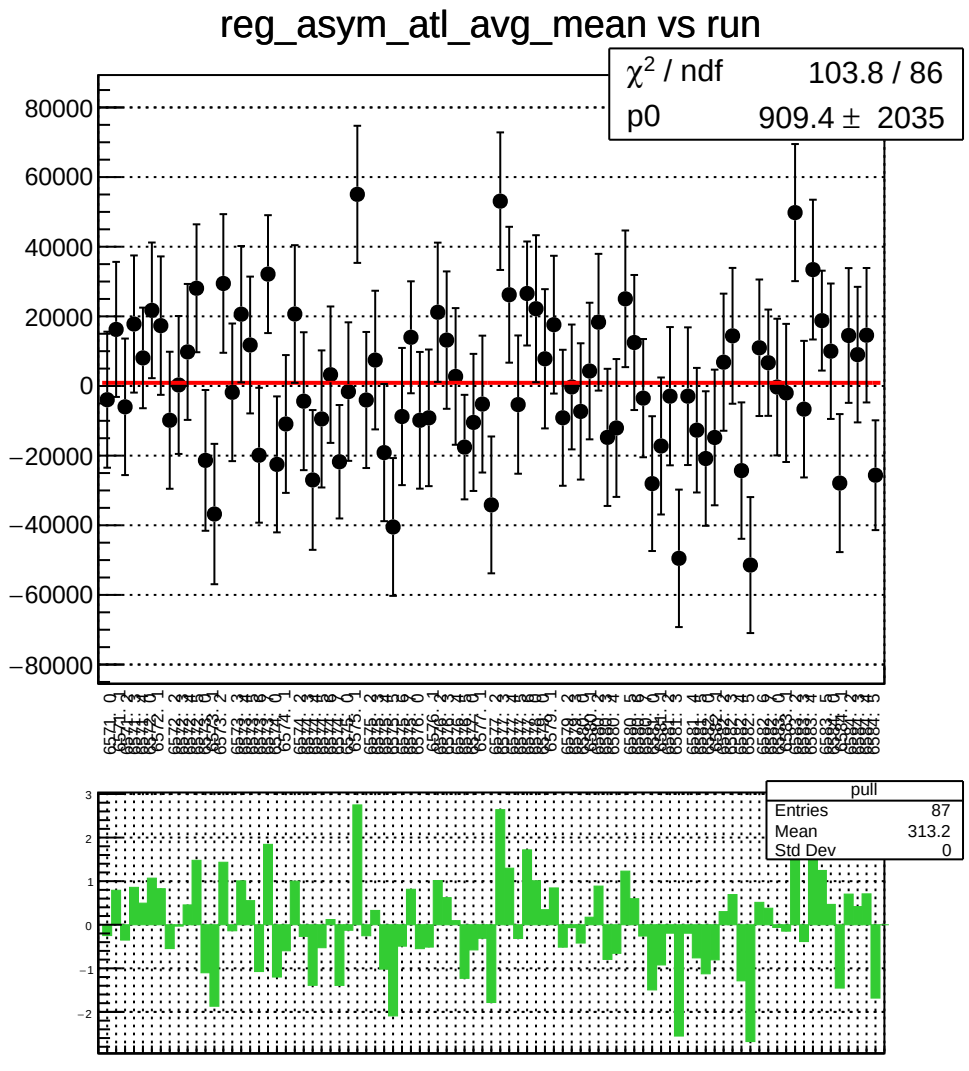

pull1D
Entries 87
Mean 0.0326
Std Dev 1.034

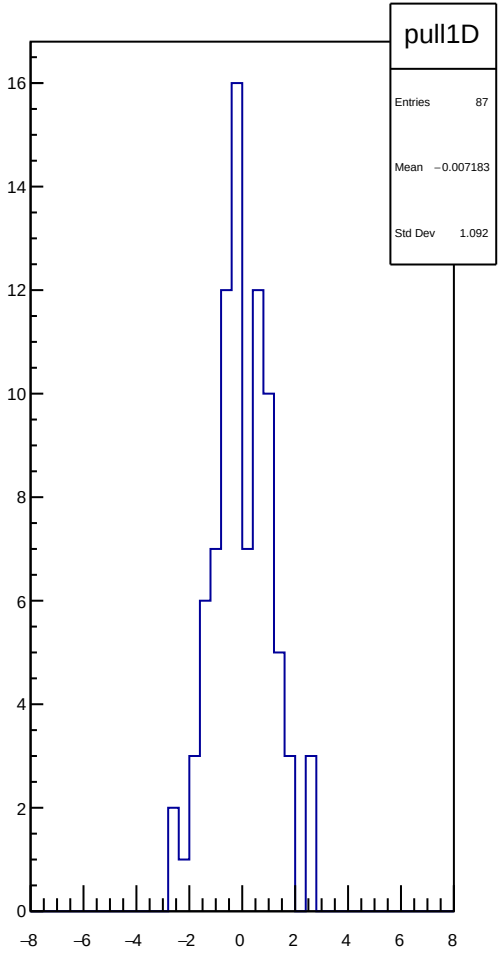

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.006e+04 / 86
p0 781.9 ± 0.6131
1400
1200
1000
800
600

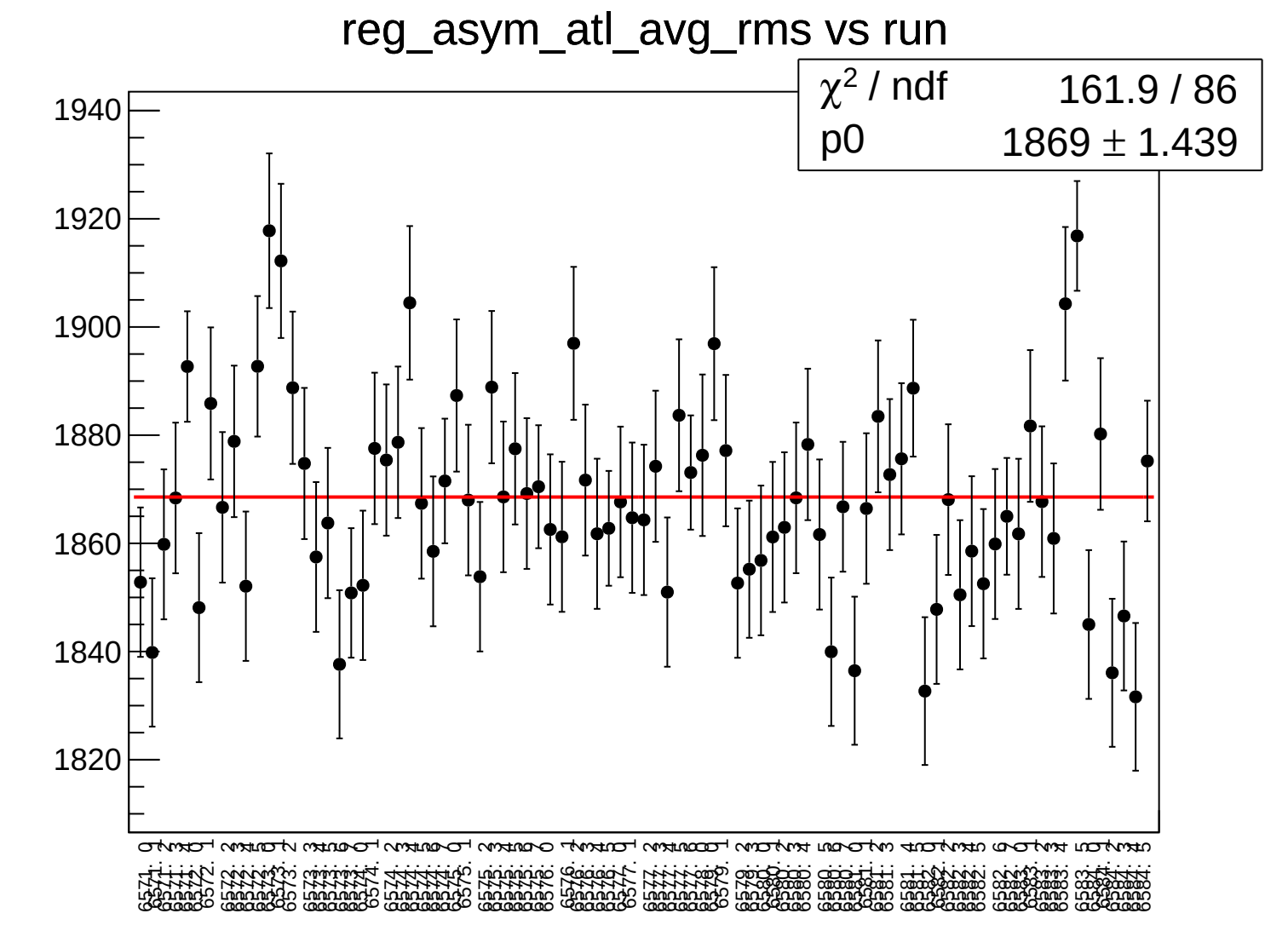

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.91 / 86
p0 5.95e−14 ± 8.51e−14
pull
Entries 87
Mean −5.021
Std Dev 42.79

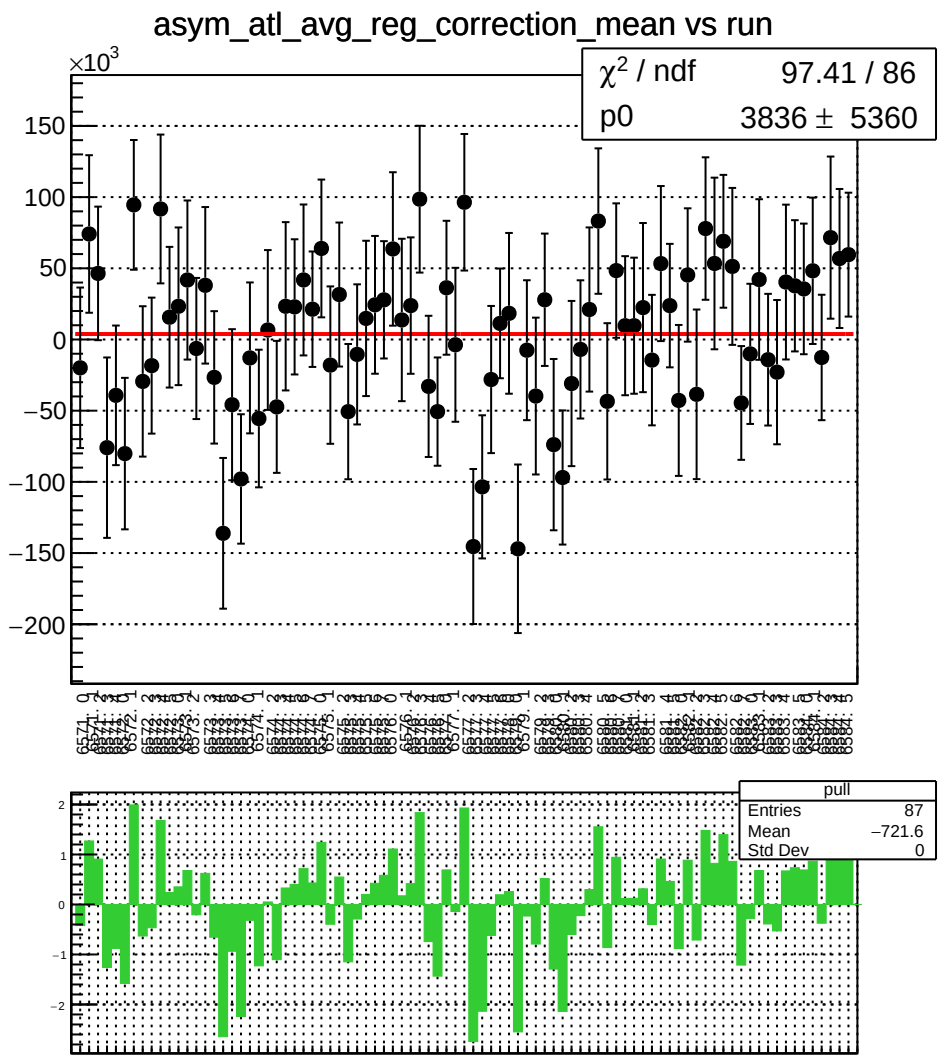

pull1D
Entries 87
Mean 0.02291
Std Dev 0.9876

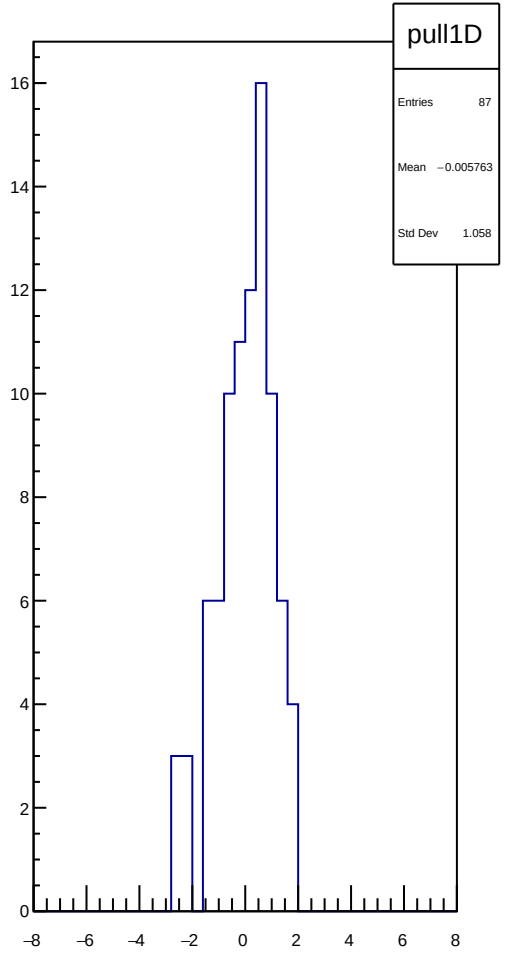

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.312e+05 / 86
p0 6.182e−11 ± 6.017e−14
0.5
0.4
0.3
0.2
0.1

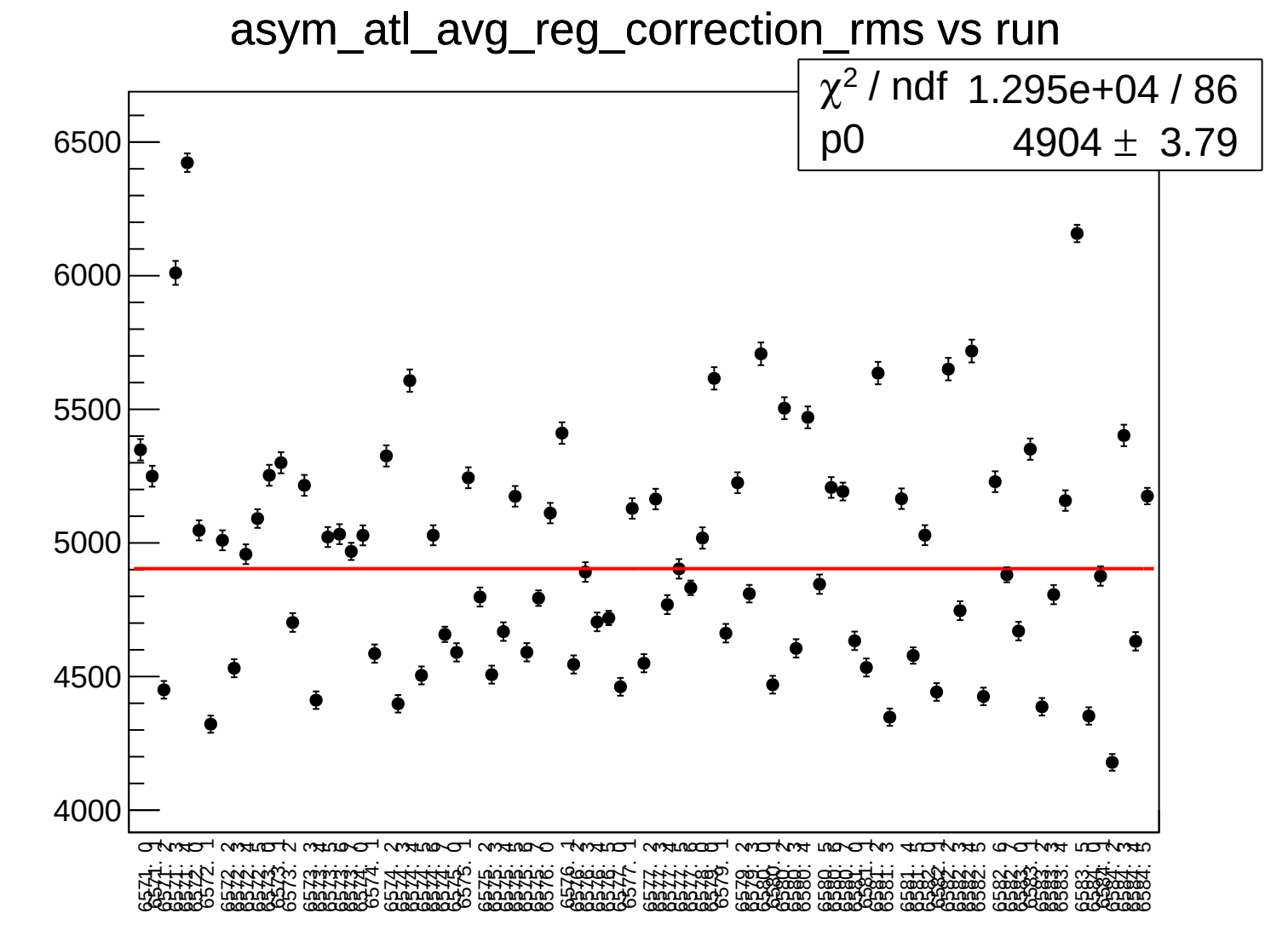

reg_asym_atl_avg_mean vs run
χ² / ndf 103.8 / 86
p0 909.4 ± 2035
pull
Entries 87
Mean 313.2
Std Dev 0

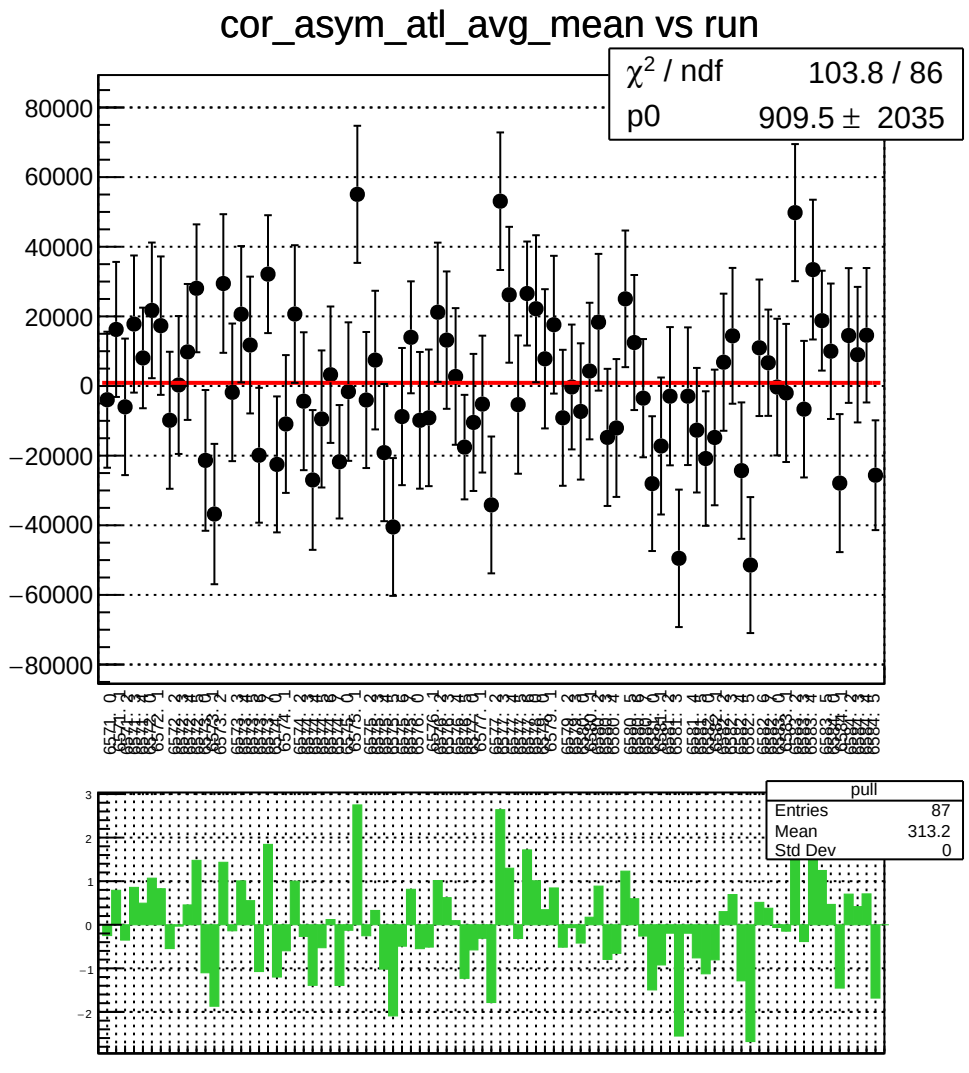

pull1D
Entries 87
Mean −0.007183
Std Dev 1.092

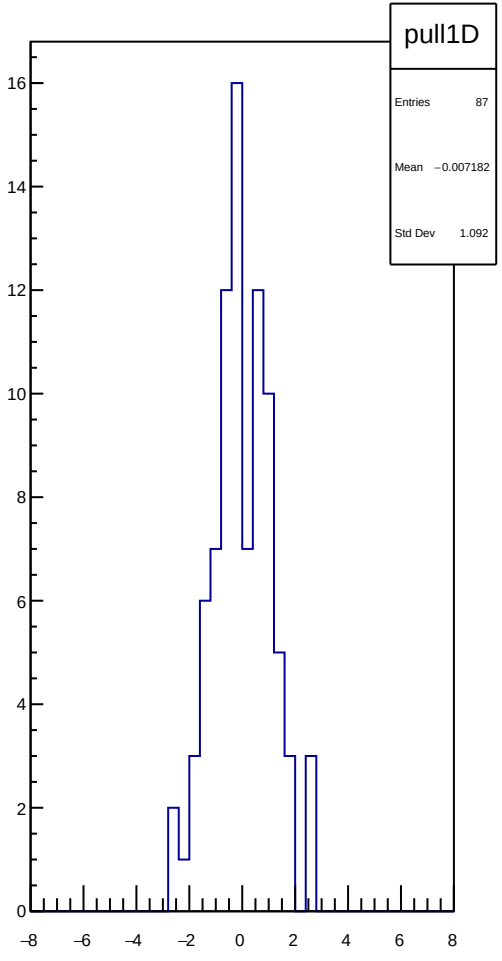

reg_asym_atl_avg_rms vs run
χ² / ndf 161.9 / 86
p0 1869 ± 1.439
1940
1920
1900
1880
1860
1840
1820

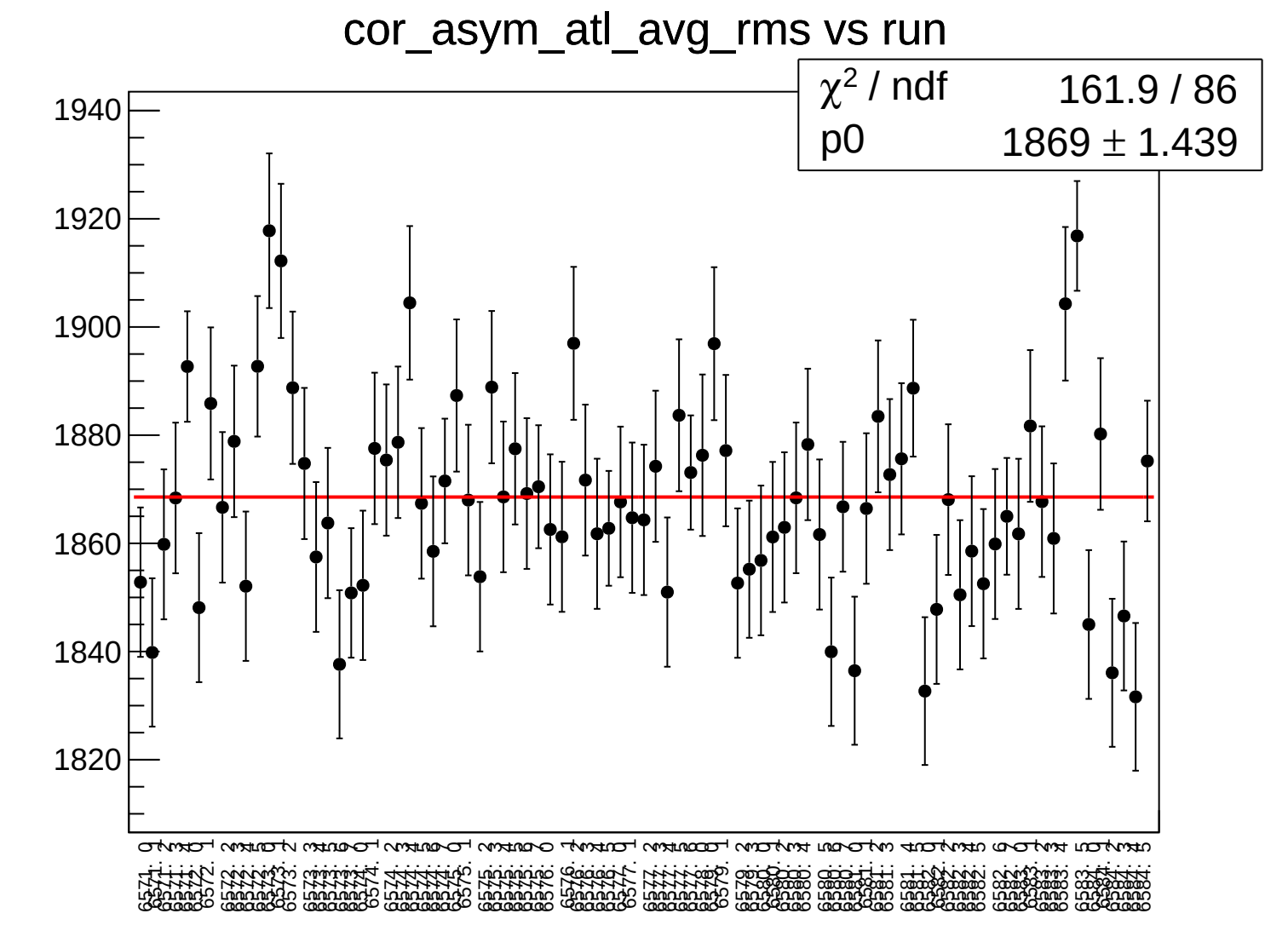

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 97.41 / 86
p0 3836 ± 5360
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −721.6
Std Dev 0
2
1
0
−1
−2

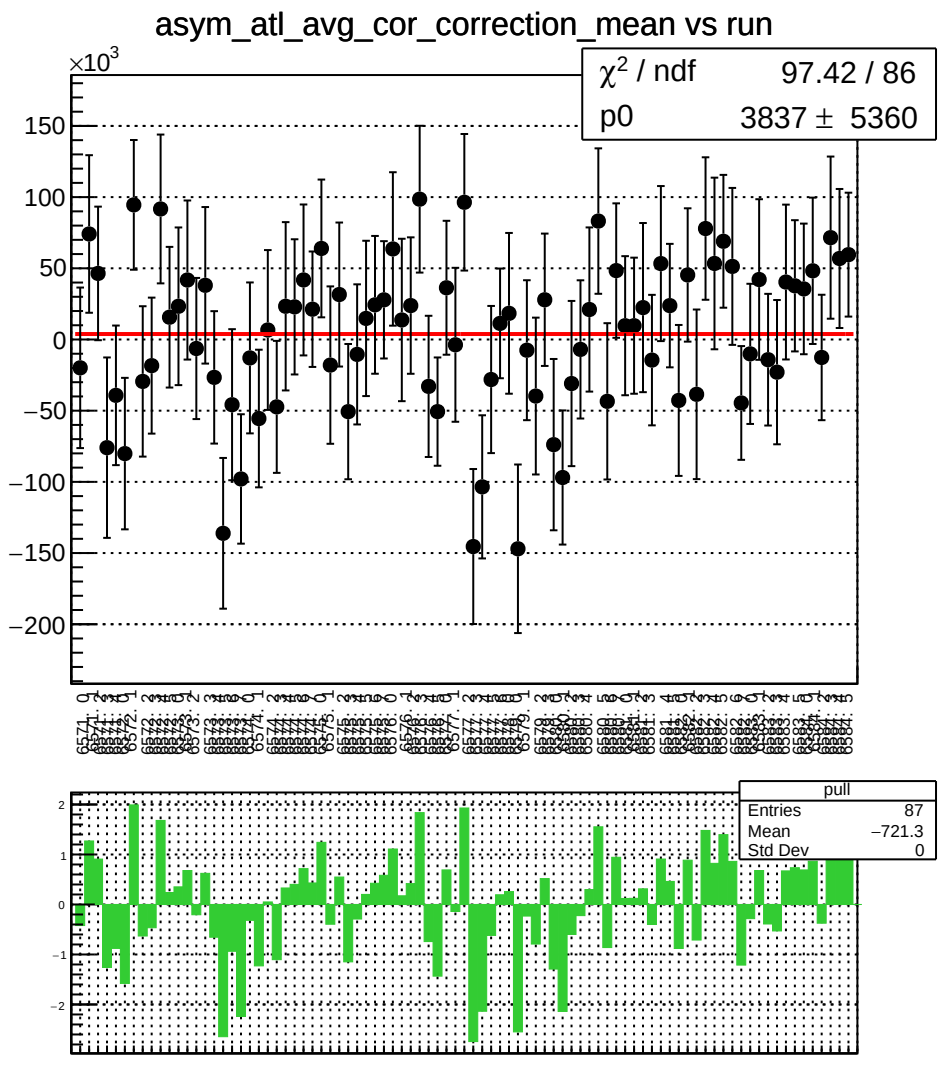

pull1D
Entries 87
Mean −0.005763
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

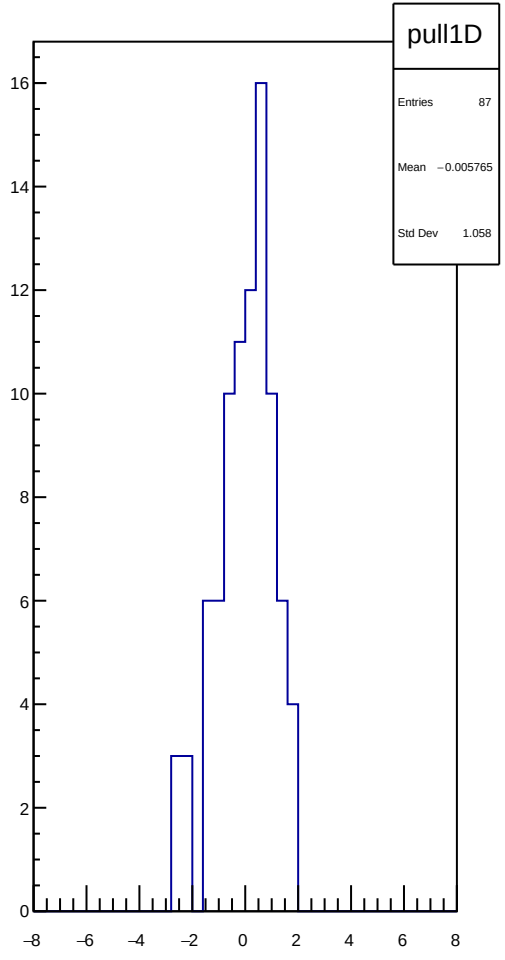

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.295e+04 / 86
p0 4904 ± 3.79
6500
6000
5500
5000
4500
4000

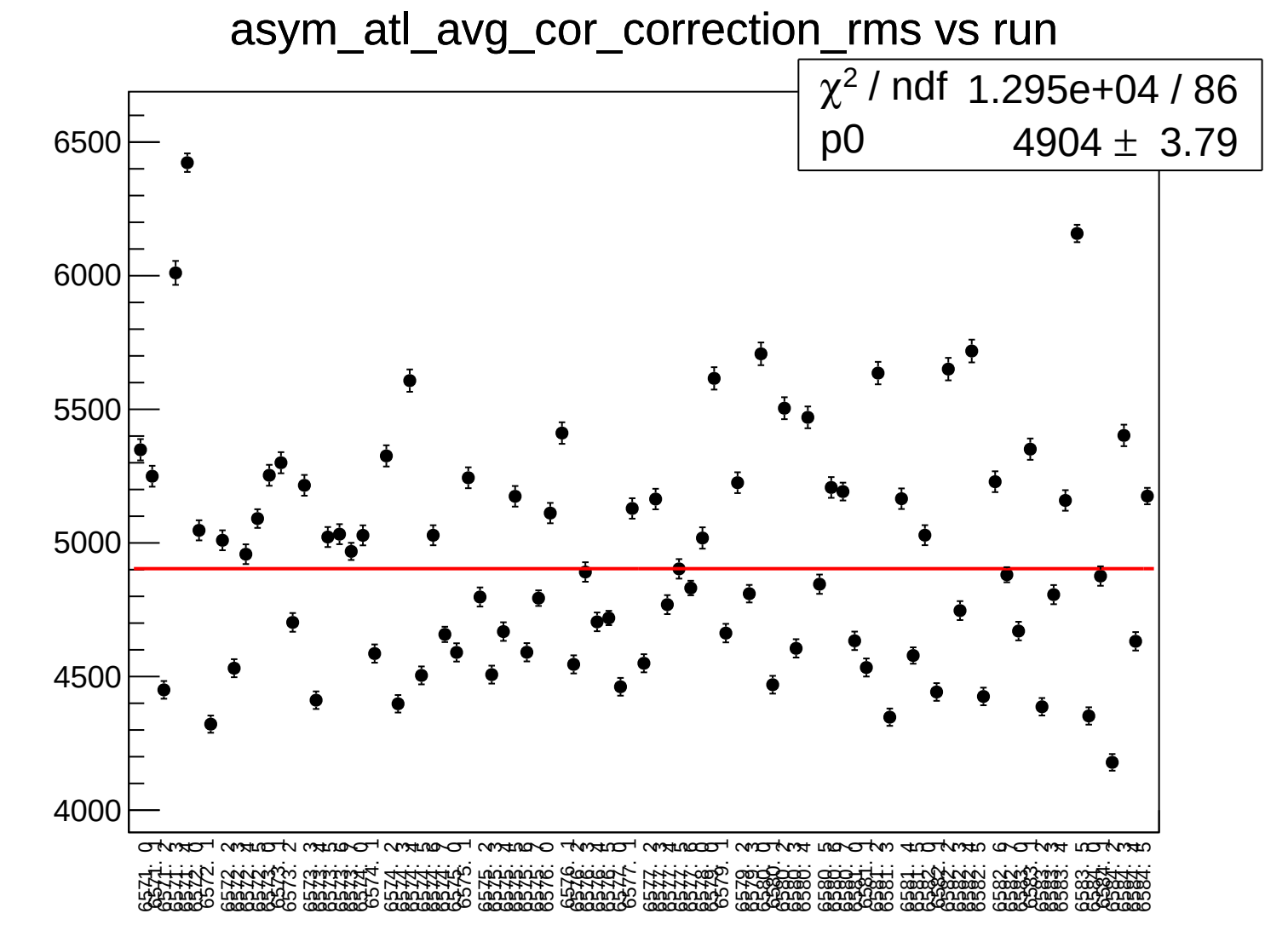

cor_asym_atl_avg_mean vs run
χ² / ndf 103.8 / 86
p0 909.5 ± 2035
pull
Entries 87
Mean 313.2
Std Dev 0

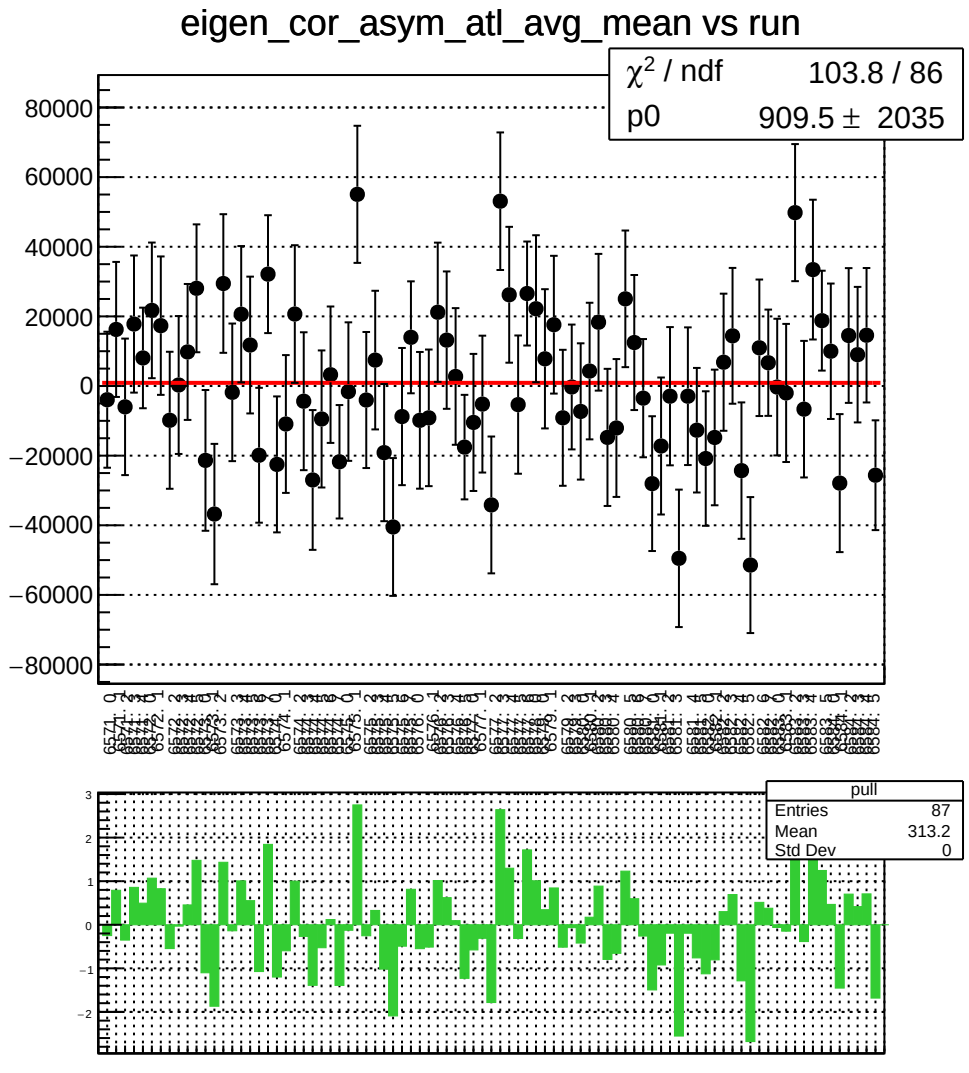

pull1D
Entries 87
Mean −0.007182
Std Dev 1.092

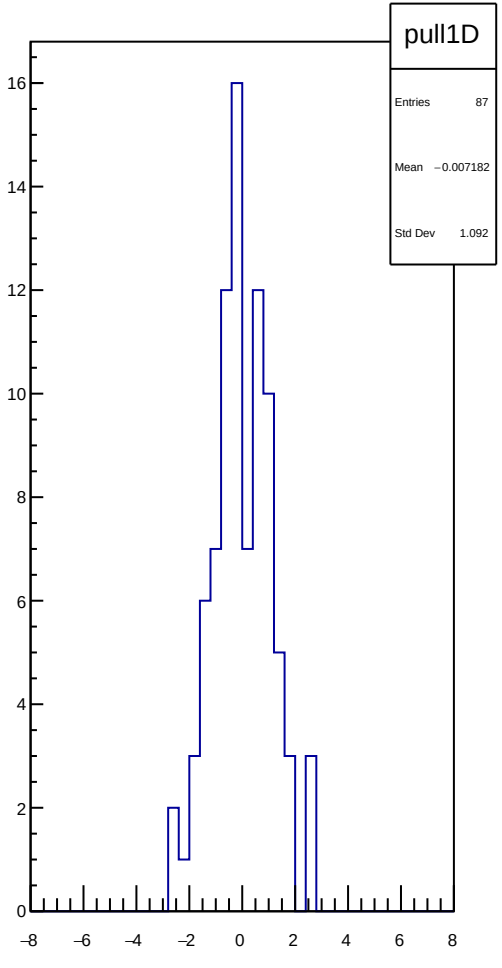

cor_asym_atl_avg_rms vs run
χ^2 / ndf 161.9 / 86
p0 1869 ± 1.439
1940
1920
1900
1880
1860
1840
1820

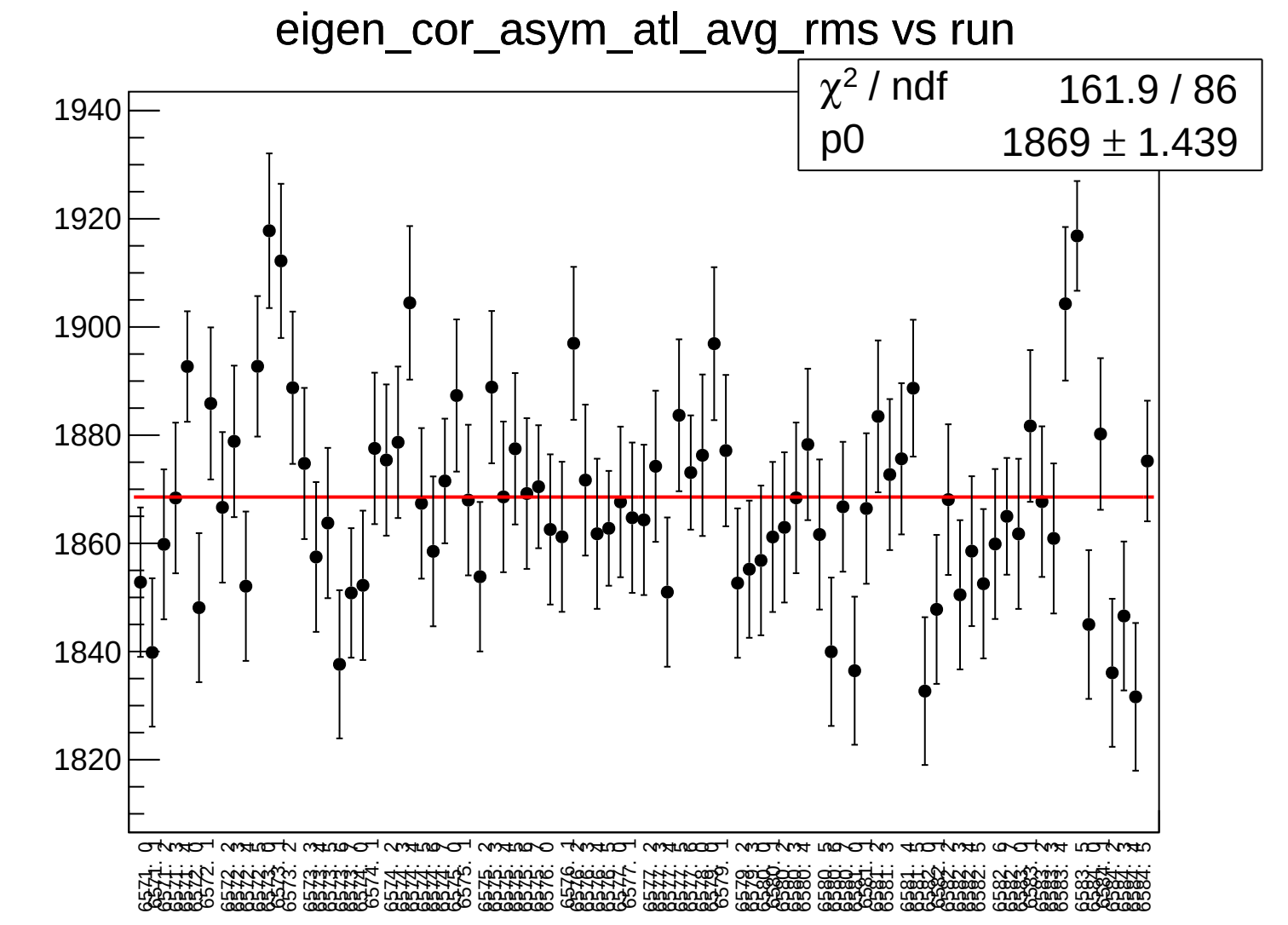

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 97.42 / 86
p0 3837 ± 5360
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −721.3
Std Dev 0
2
1
0
−1
−2

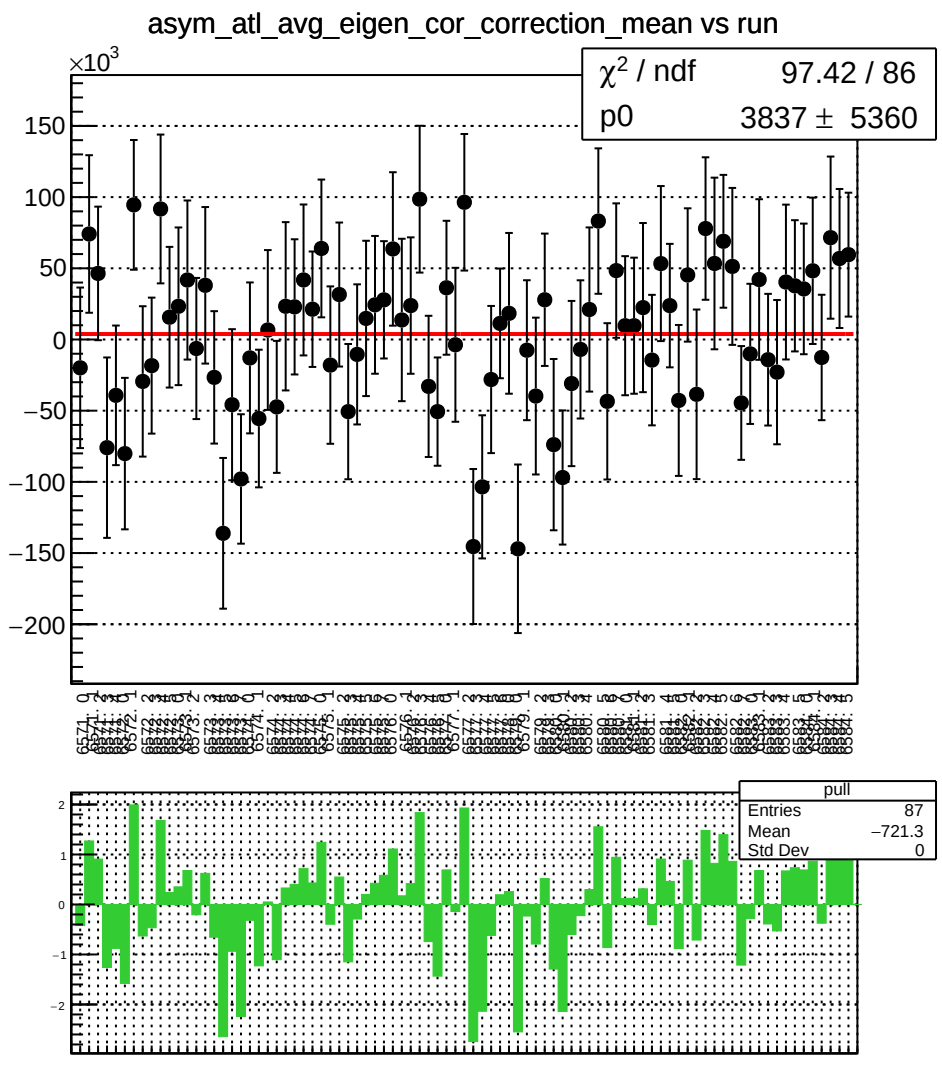

pull1D
Entries 87
Mean −0.005765
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

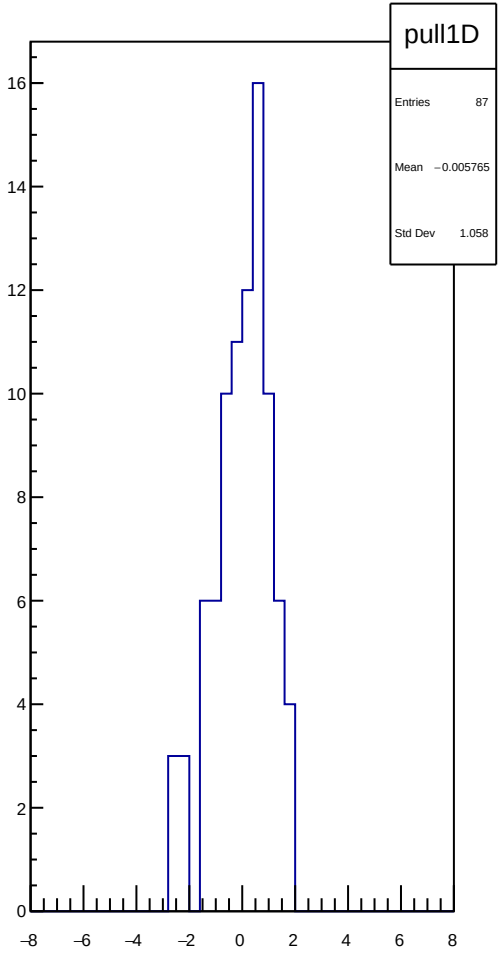

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.295e+04 / 86
p0 4904 ± 3.79
6500
6000
5500
5000
4500
4000

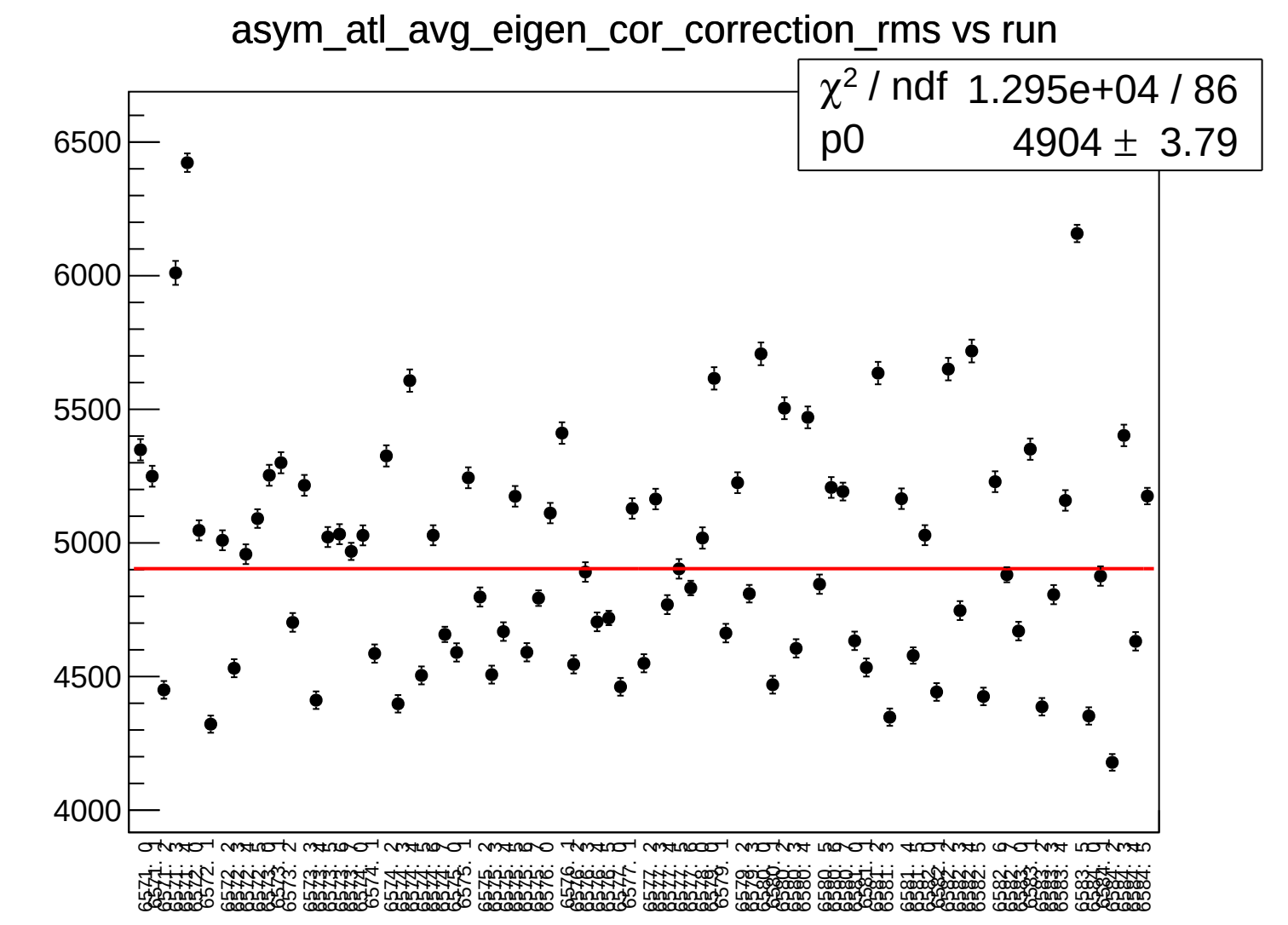

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 103.8 / 86
p0 909.5 ± 2035
pull
Entries 87
Mean 313.2
Std Dev 0

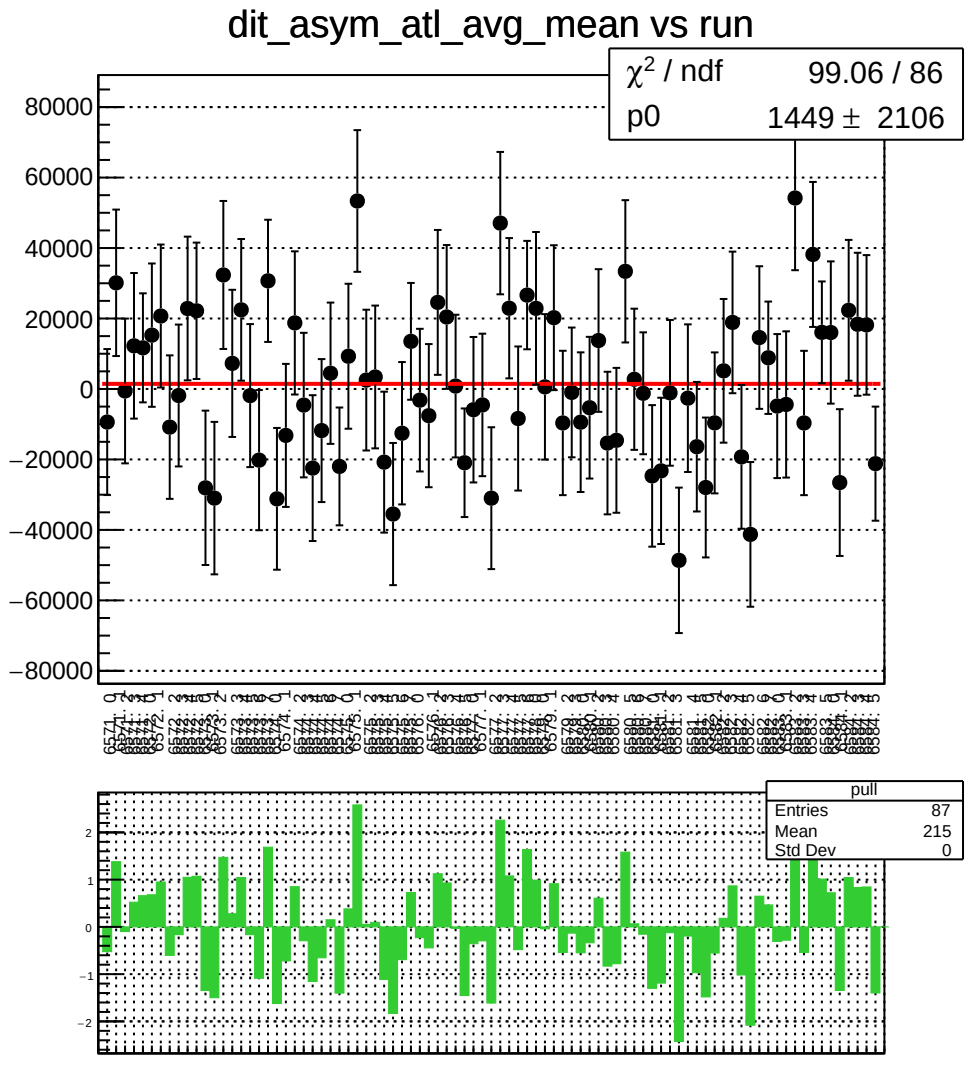

pull1D
Entries 87
Mean −0.007182
Std Dev 1.092

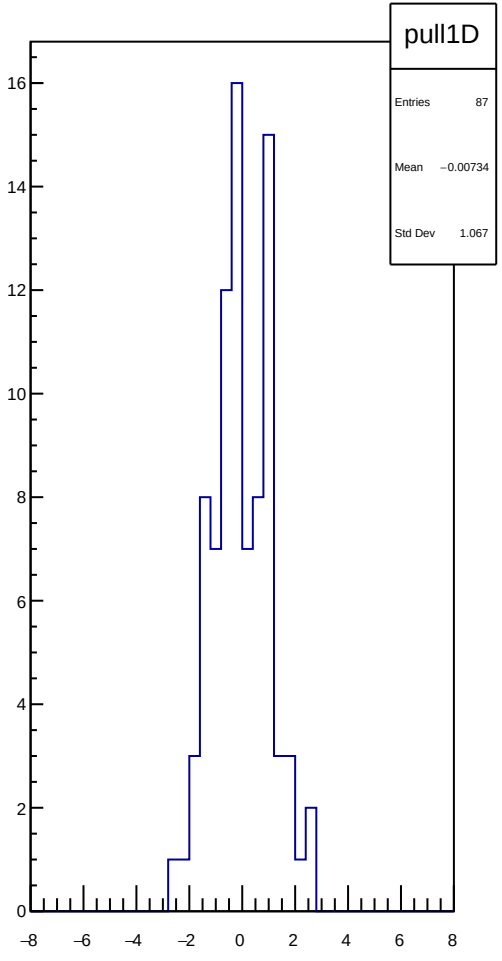

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 161.9 / 86
p0 1869 ± 1.439
1940
1920
1900
1880
1860
1840
1820

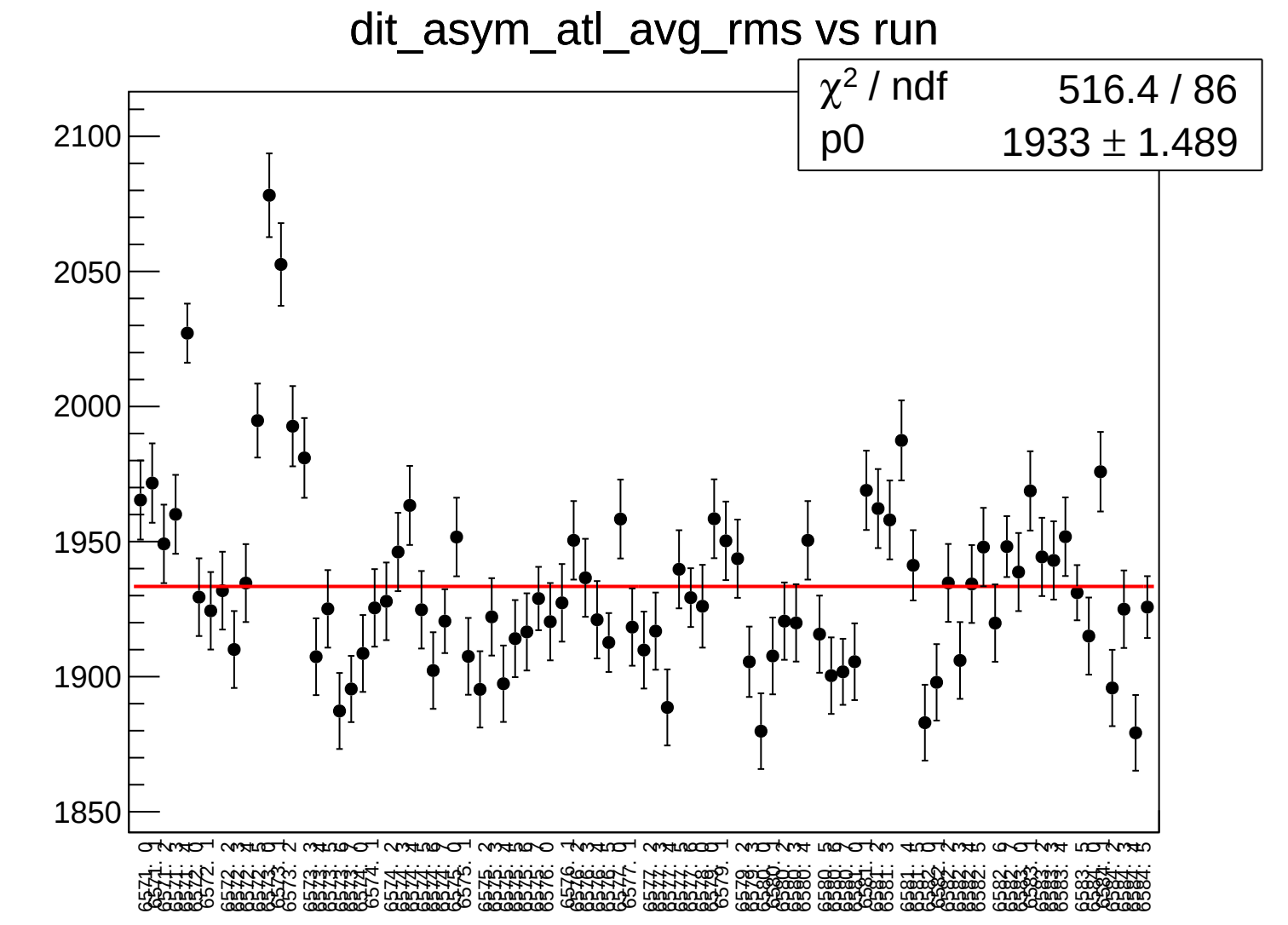

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.42 / 86
p0 3837 ± 5360
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −721.3
Std Dev 0
2
1
0
−1
−2

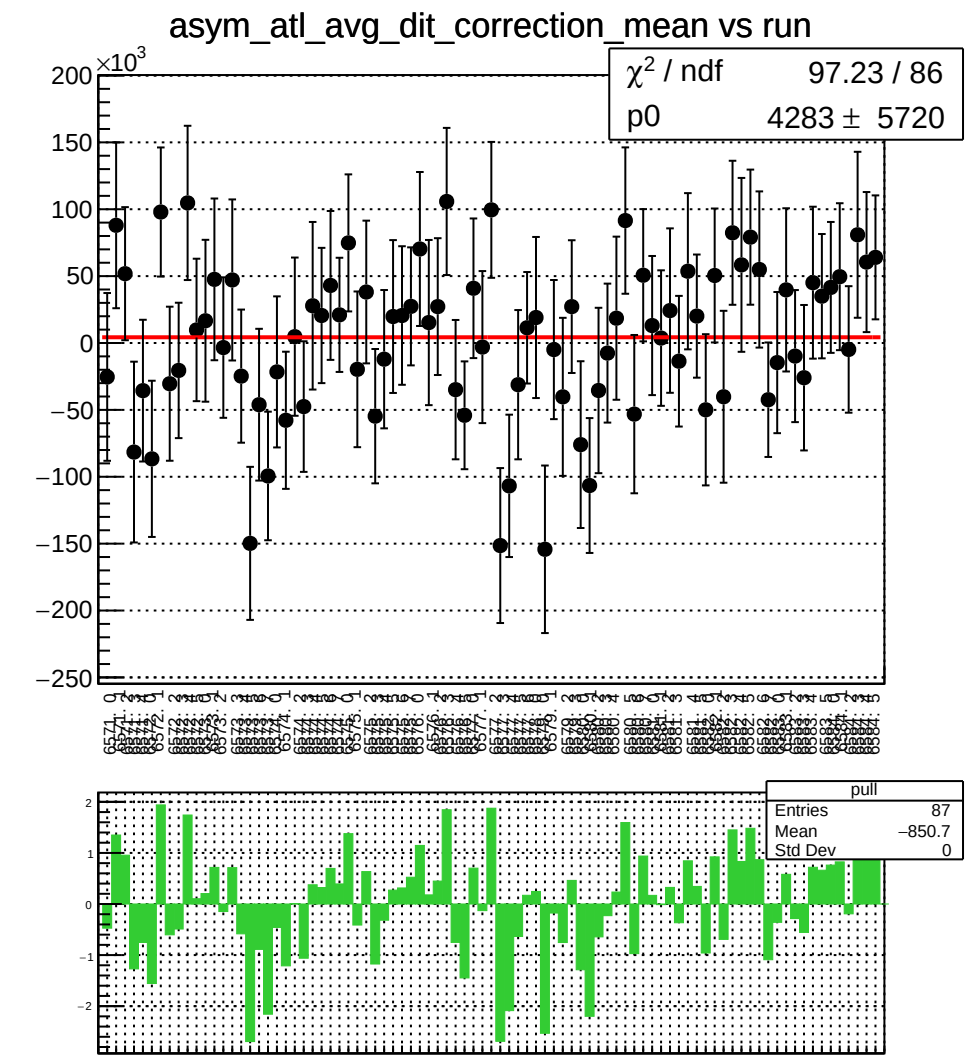

pull1D
Entries 87
Mean −0.005765
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

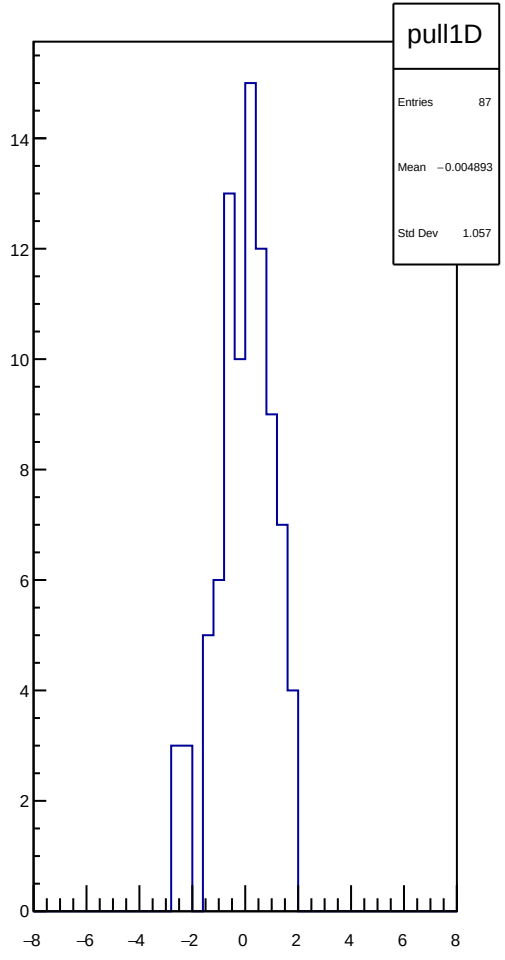

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.295e+04 / 86
p0 4904 ± 3.79
6500
6000
5500
5000
4500
4000

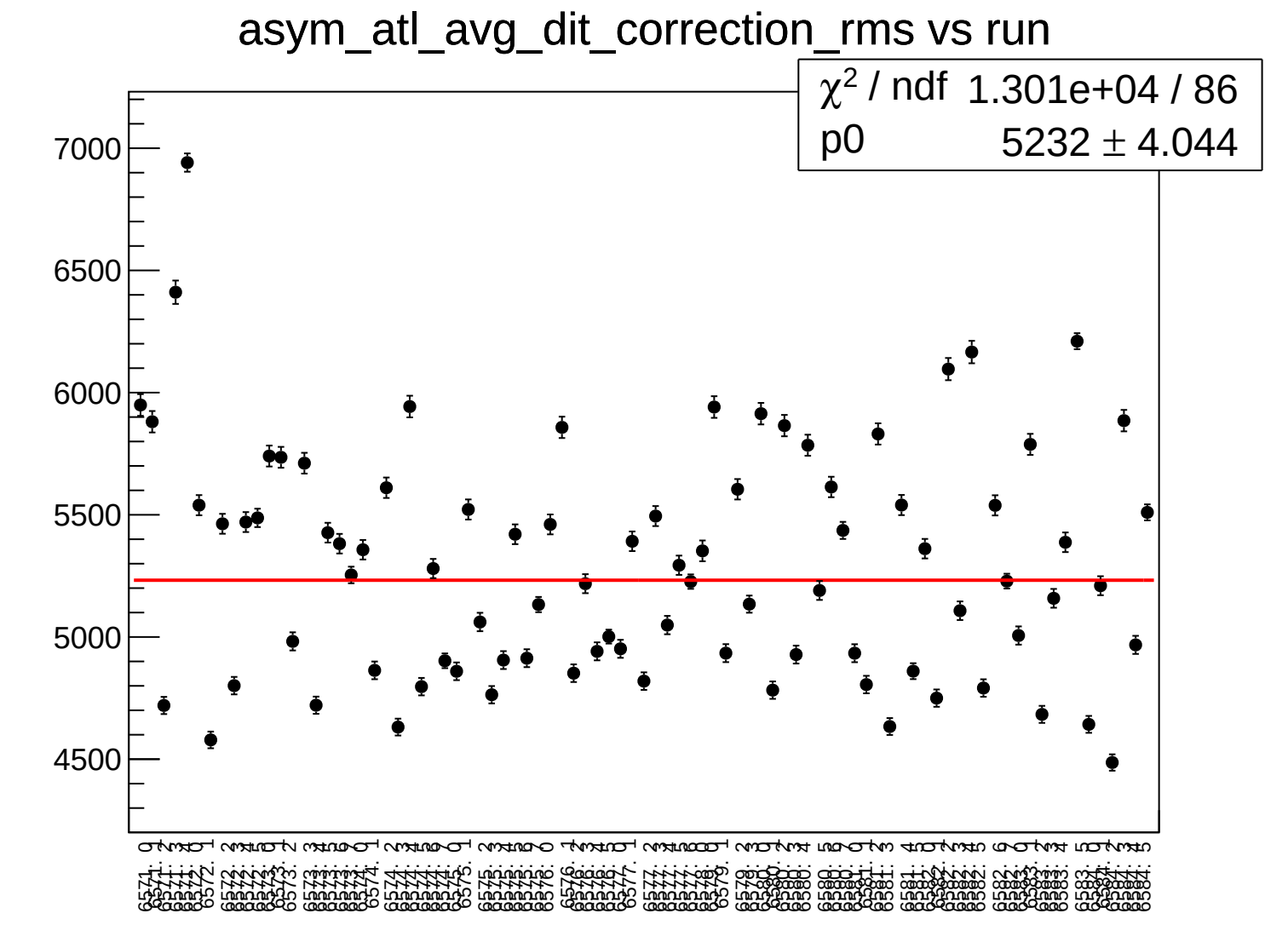

dit_asym_atl_avg_mean vs run
χ² / ndf 99.06 / 86
p0 1449 ± 2106
pull
Entries 87
Mean 215
Std Dev 0

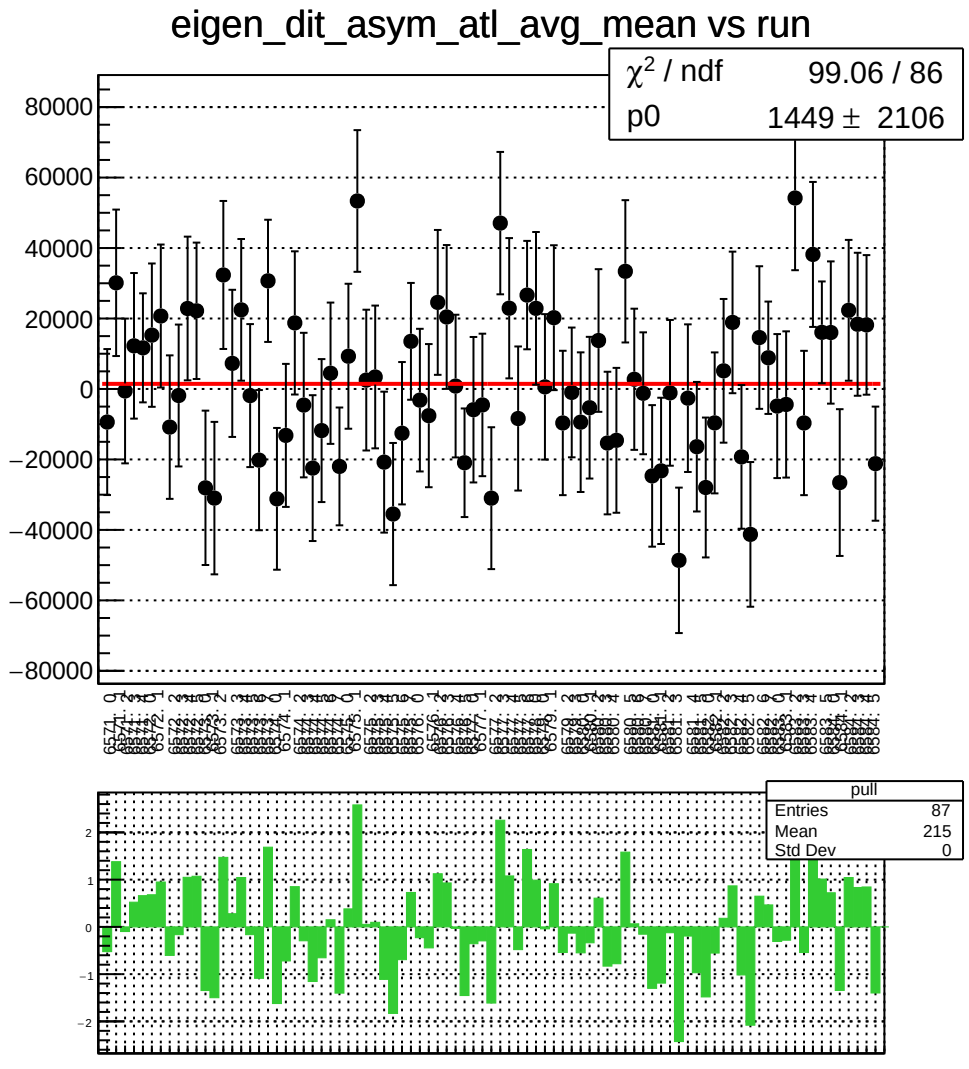

pull1D
Entries 87
Mean −0.00734
Std Dev 1.067

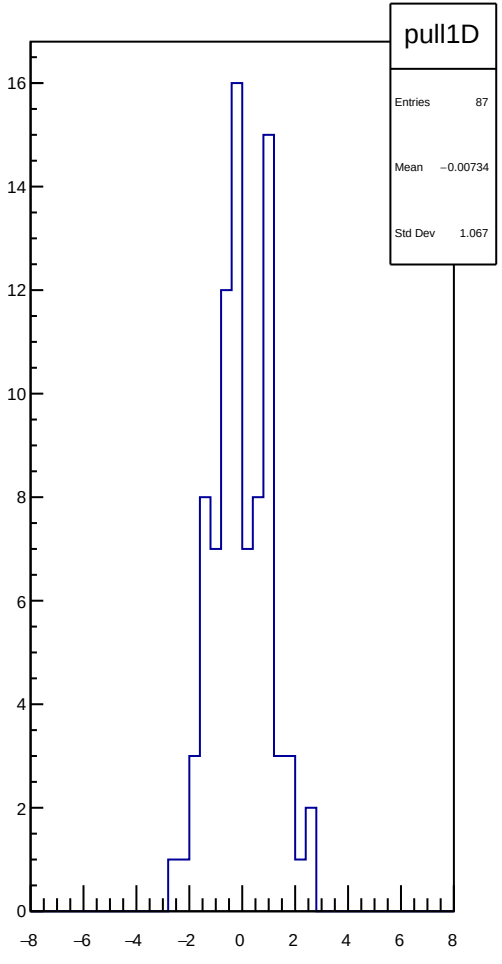

dit_asym_atl_avg_rms vs run
χ^2 / ndf 516.4 / 86
p0 1933 ± 1.489
2100
2050
2000
1950
1900
1850

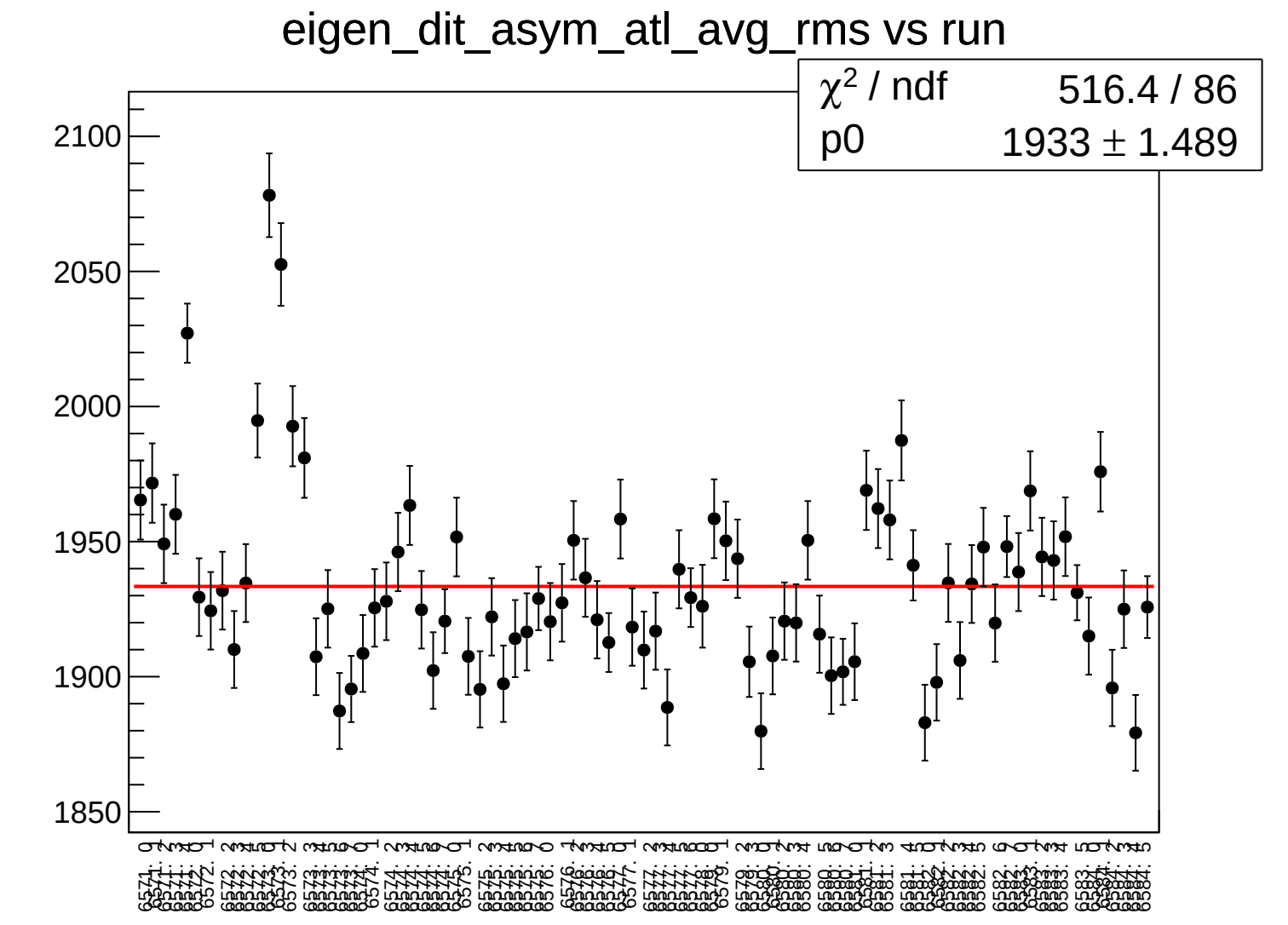

asym_atl_avg_dit_correction_mean vs run
χ² / ndf 97.23 / 86
p0 4283 ± 5720
×10³
pull
Entries 87
Mean −850.7
Std Dev 0

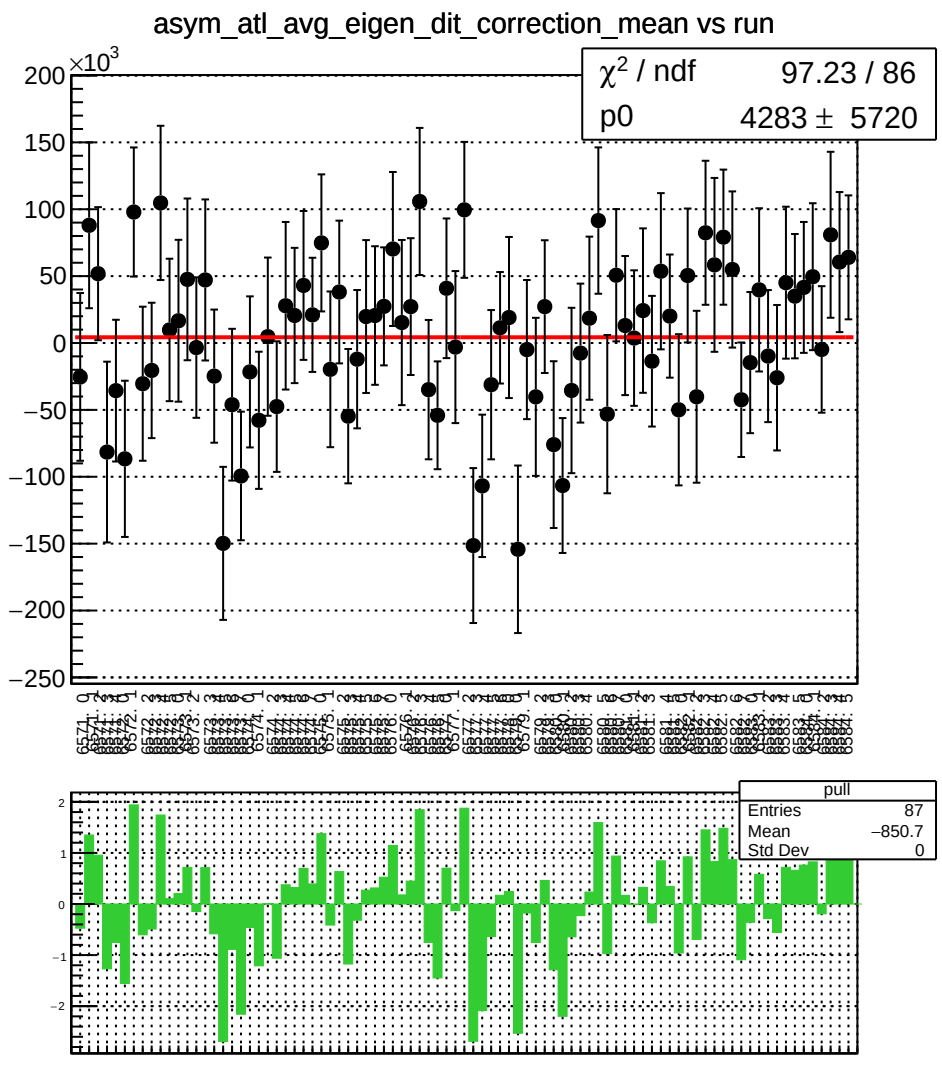

pull1D
Entries 87
Mean −0.004893
Std Dev 1.057

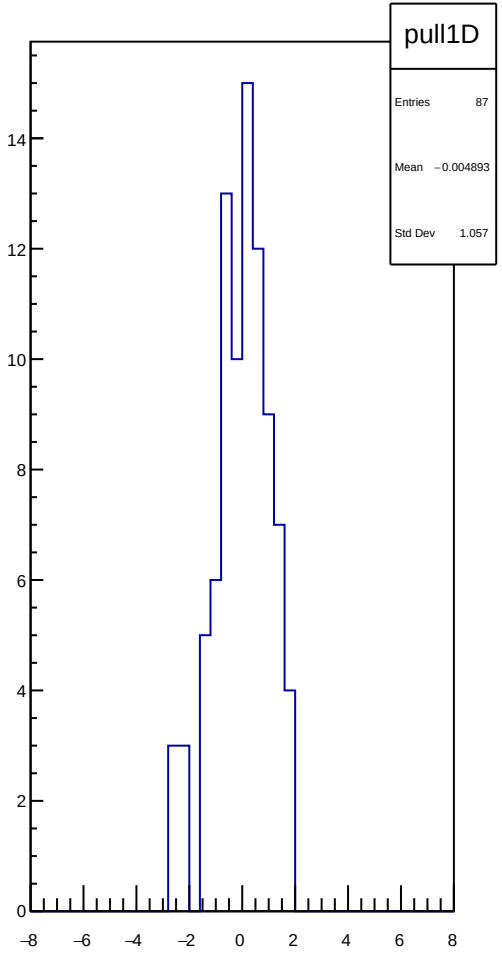

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.301e+04 / 86
p0 5232 ± 4.044
7000
6500
6000
5500
5000
4500

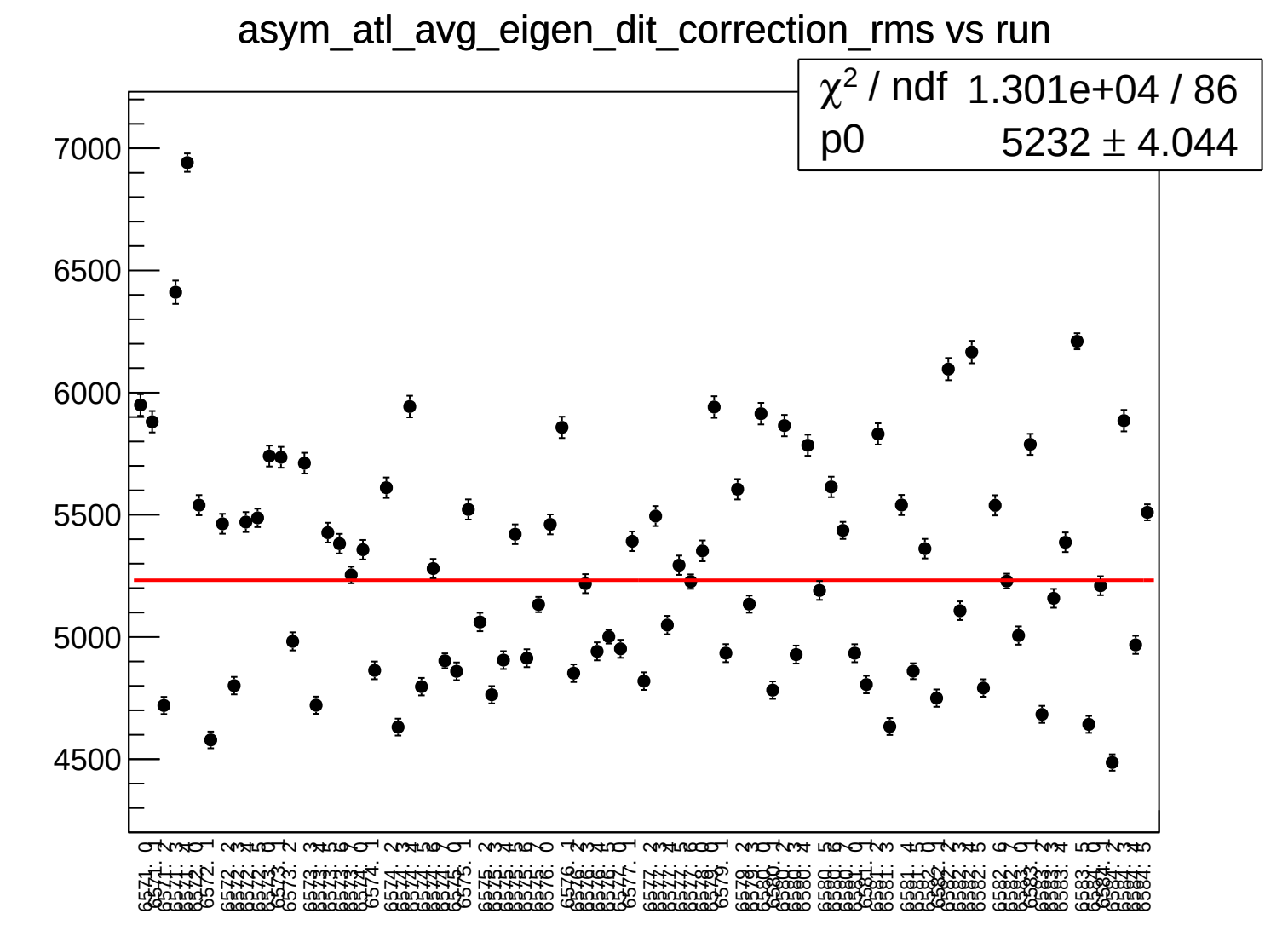

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 99.06 / 86
p0 1449 ± 2106
pull
Entries 87
Mean 215
Std Dev 0

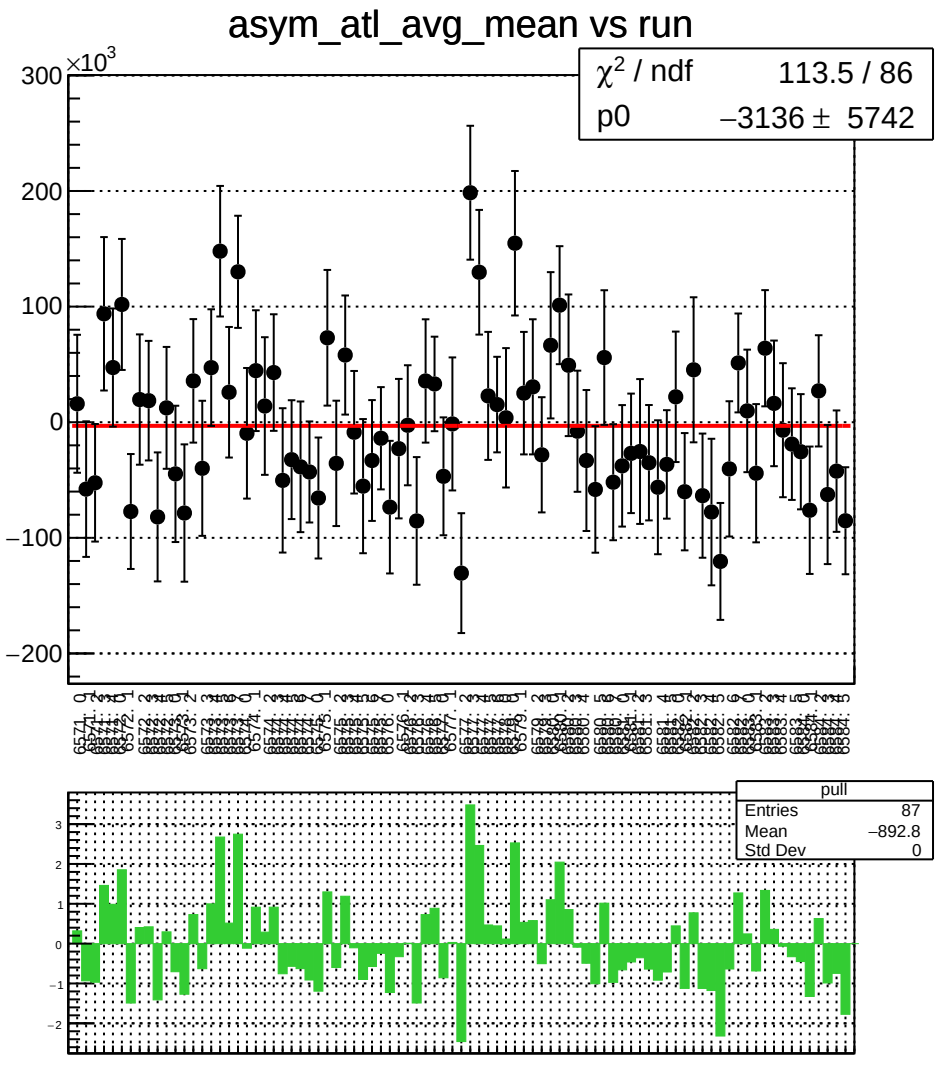

pull1D
Entries 87
Mean −0.00734
Std Dev 1.067

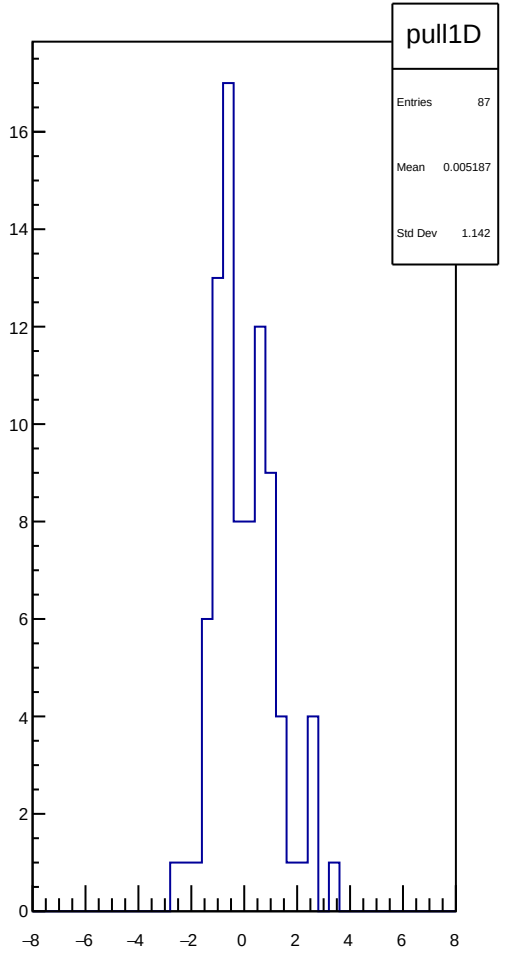

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 516.4 / 86
p0 1933 ± 1.489
2100
2050
2000
1950
1900
1850

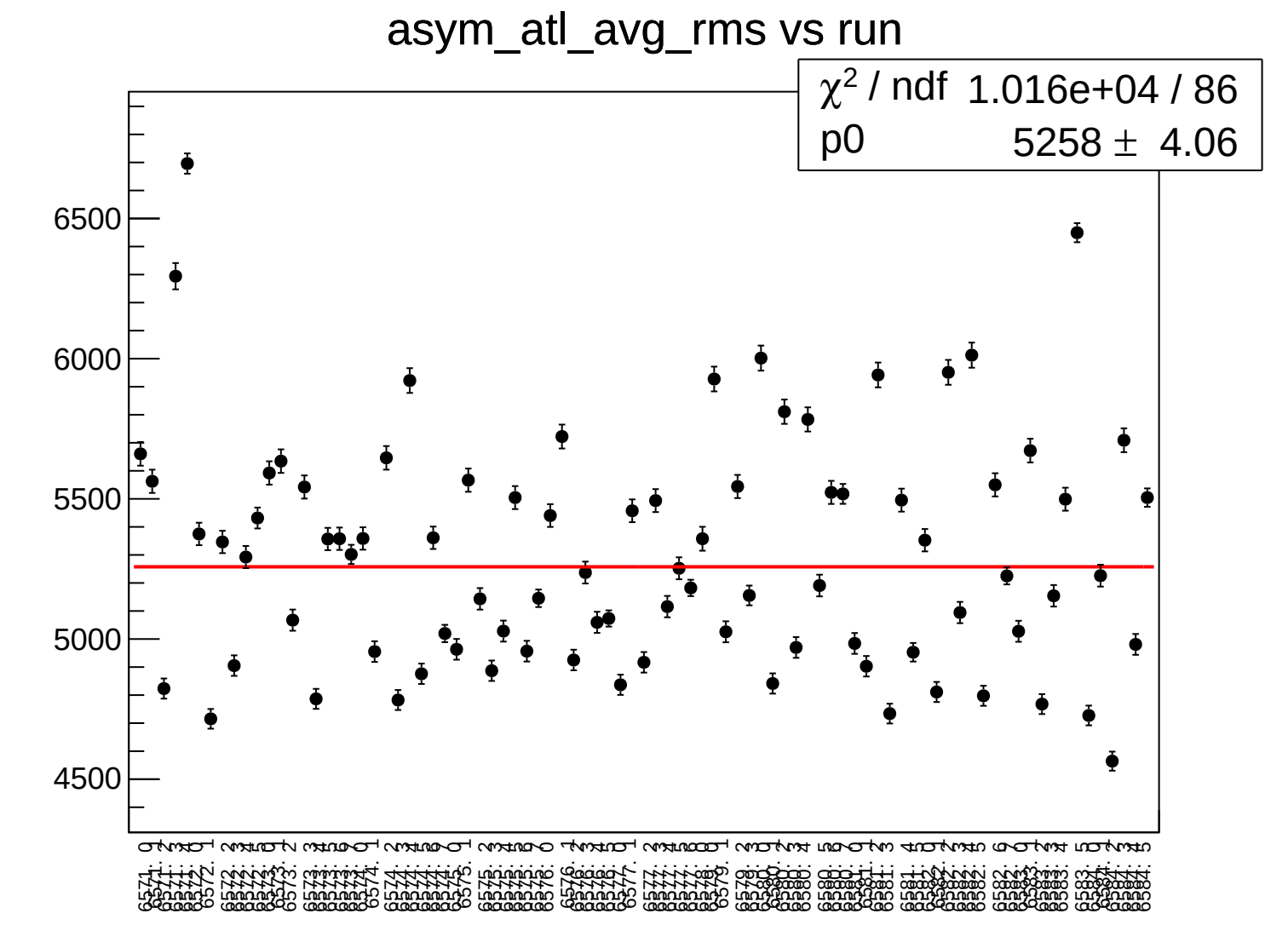

asym_atl_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.23 / 86
p0 4283 ± 5720
×10³
pull
Entries 87
Mean −850.7
Std Dev 0

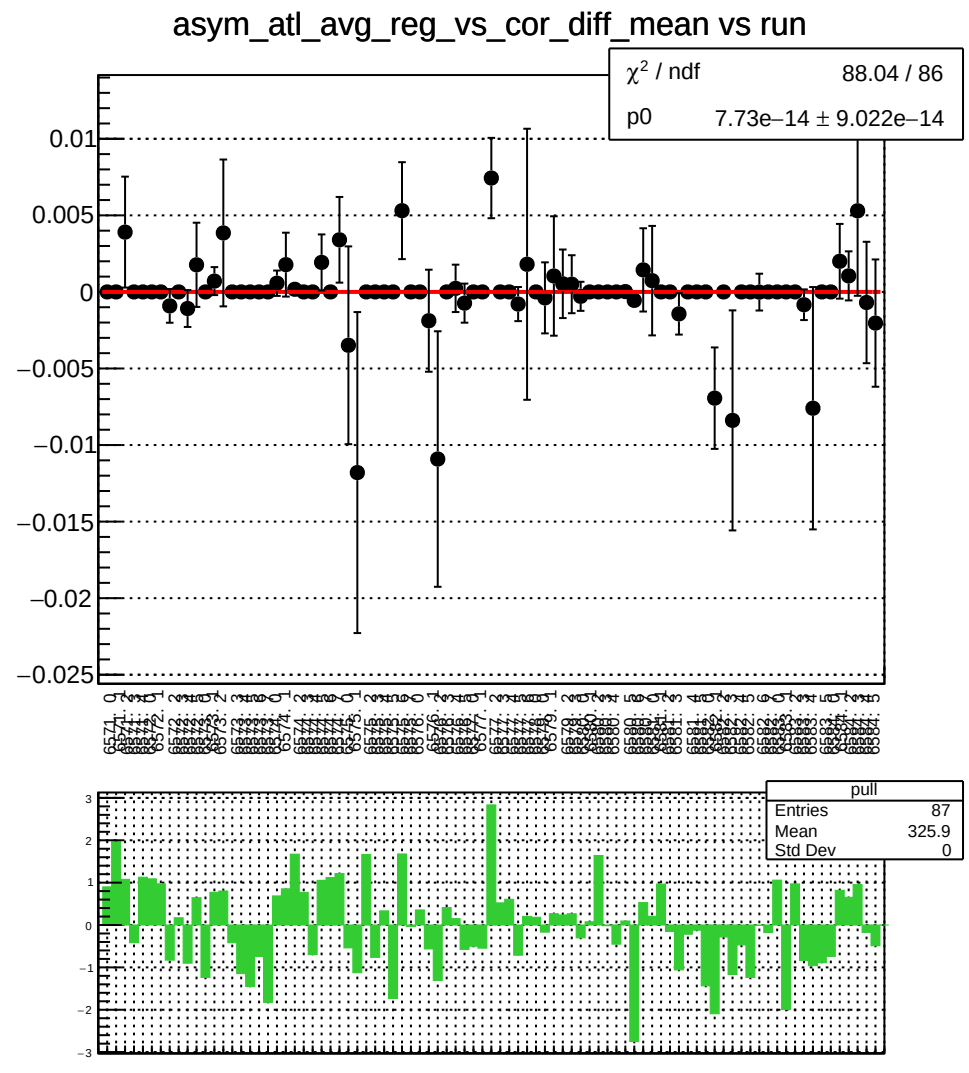

pull1D
Entries 87
Mean −0.004893
Std Dev 1.057

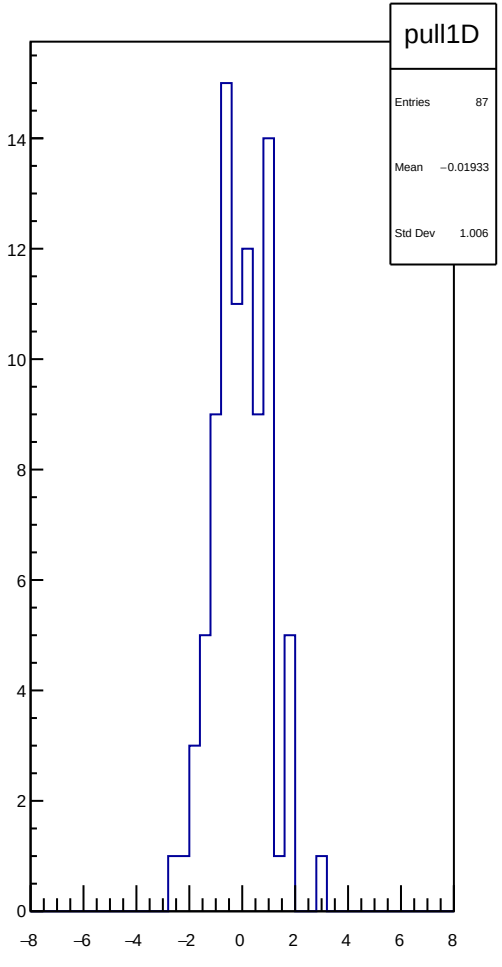

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.301e+04 / 86
p0 5232 ± 4.044
7000
6500
6000
5500
5000
4500

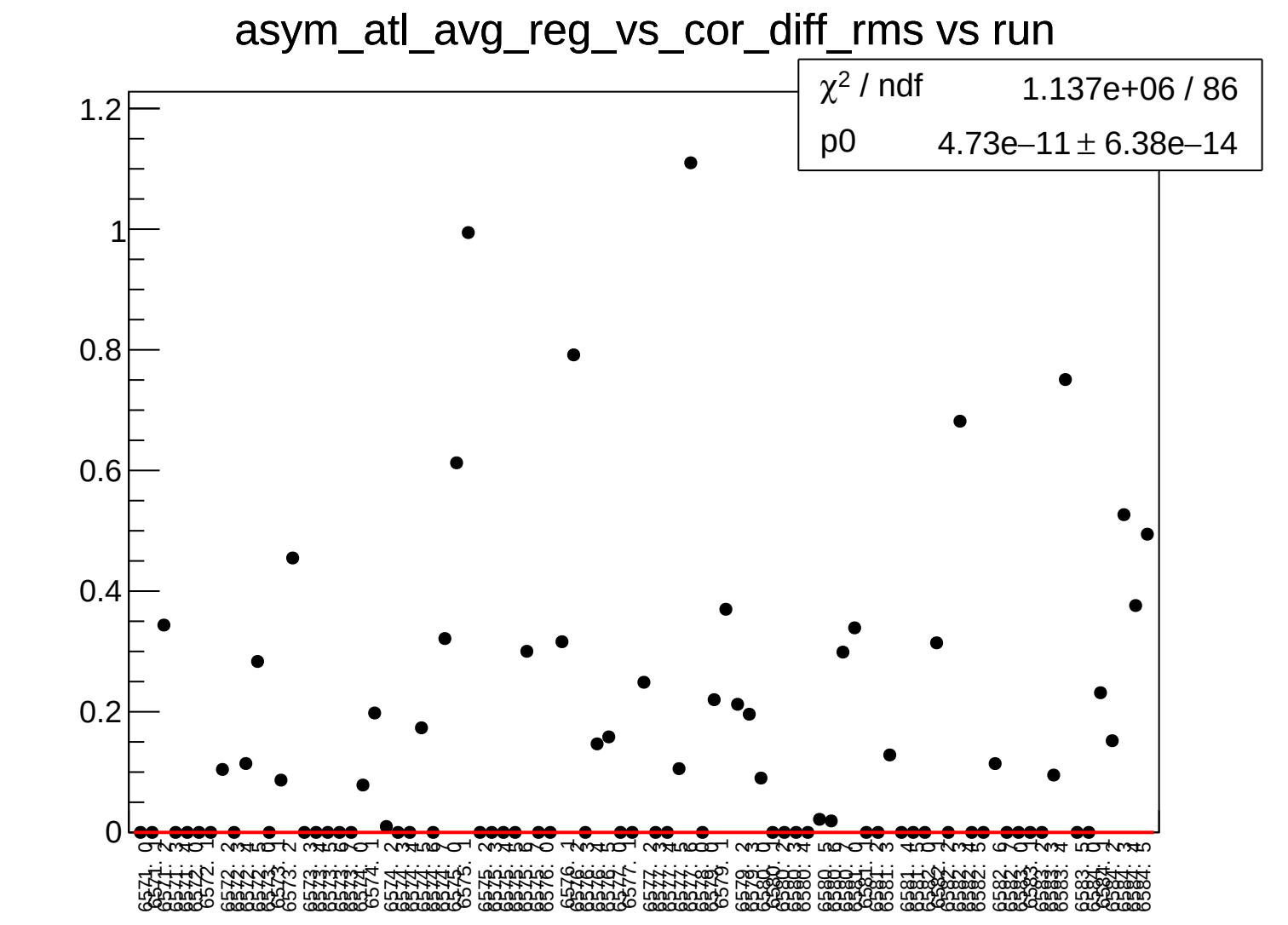

asym_atl_avg_mean vs run
χ² / ndf 113.5 / 86
p0 −3136 ± 5742
×10³
300
200
100
0
−100
−200
pull
Entries 87
Mean −892.8
Std Dev 0
3
2
1
0
−1
−2

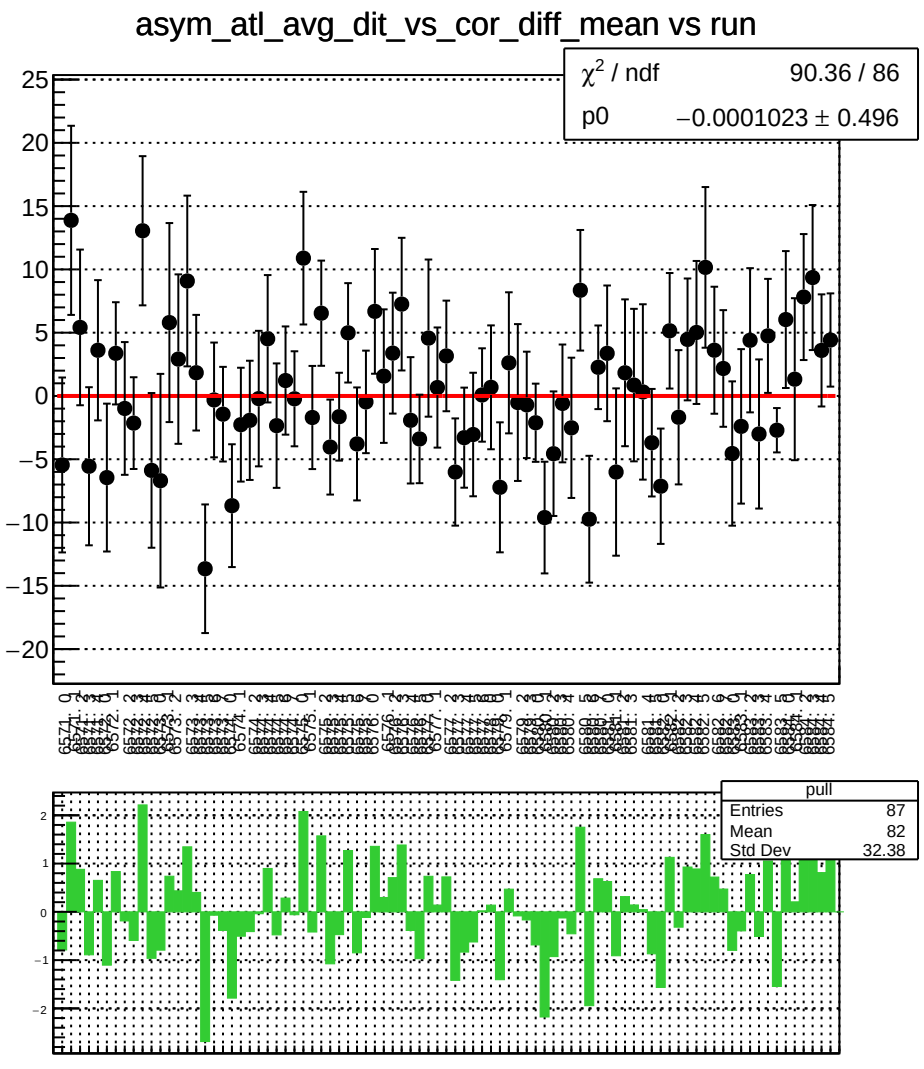

pull1D
Entries 87
Mean 0.005187
Std Dev 1.142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

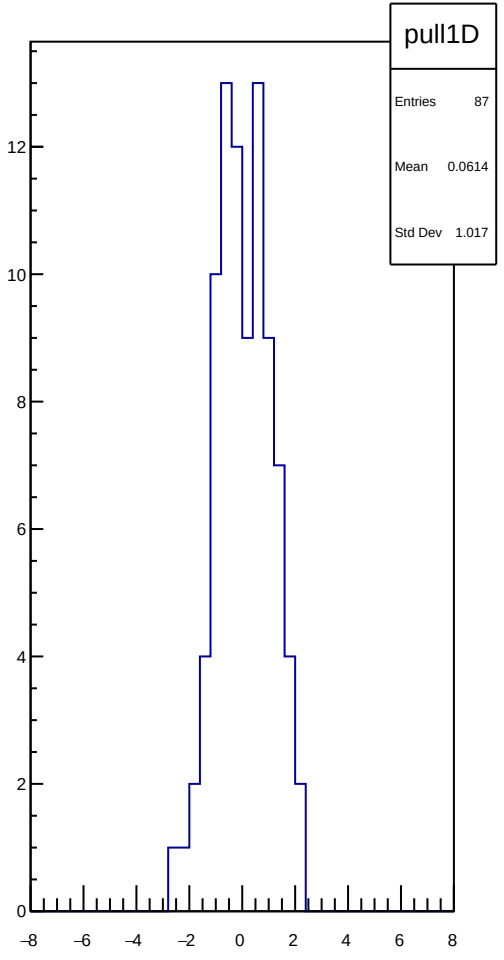

asym_atl_avg_rms vs run
χ² / ndf 1.016e+04 / 86
p0 5258 ± 4.06
6500
6000
5500
5000
4500

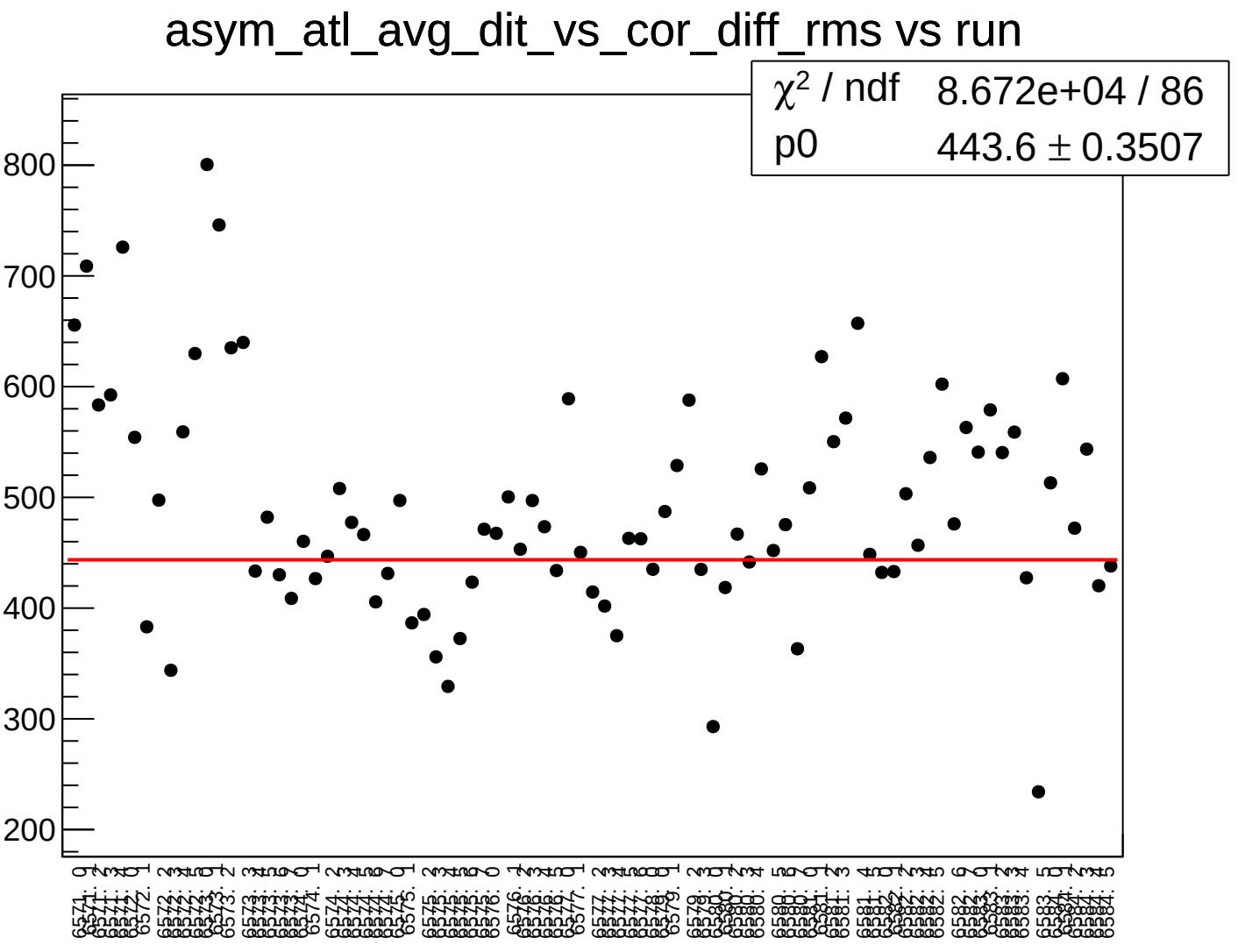

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.04 / 86
p0 7.73e−14 ± 9.022e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 87
Mean 325.9
Std Dev 0
3
2
1
0
−1
−2
−3

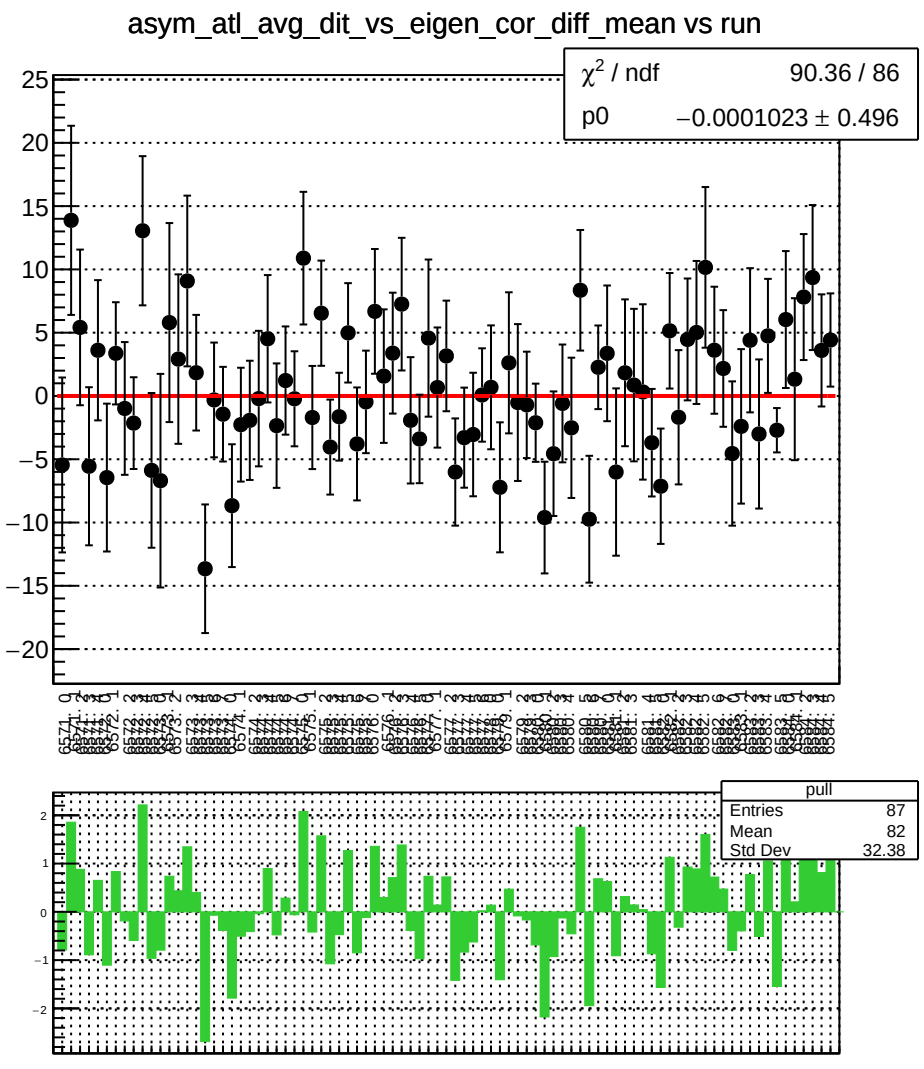

pull1D
Entries 87
Mean −0.01933
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

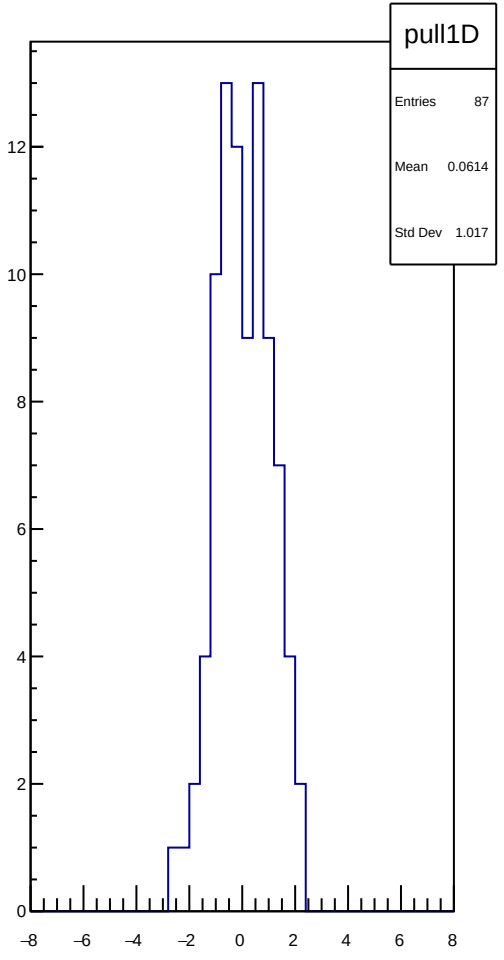

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.137e+06 / 86
p0 4.73e−11 ± 6.38e−14
1.2
1
0.8
0.6
0.4
0.2
0

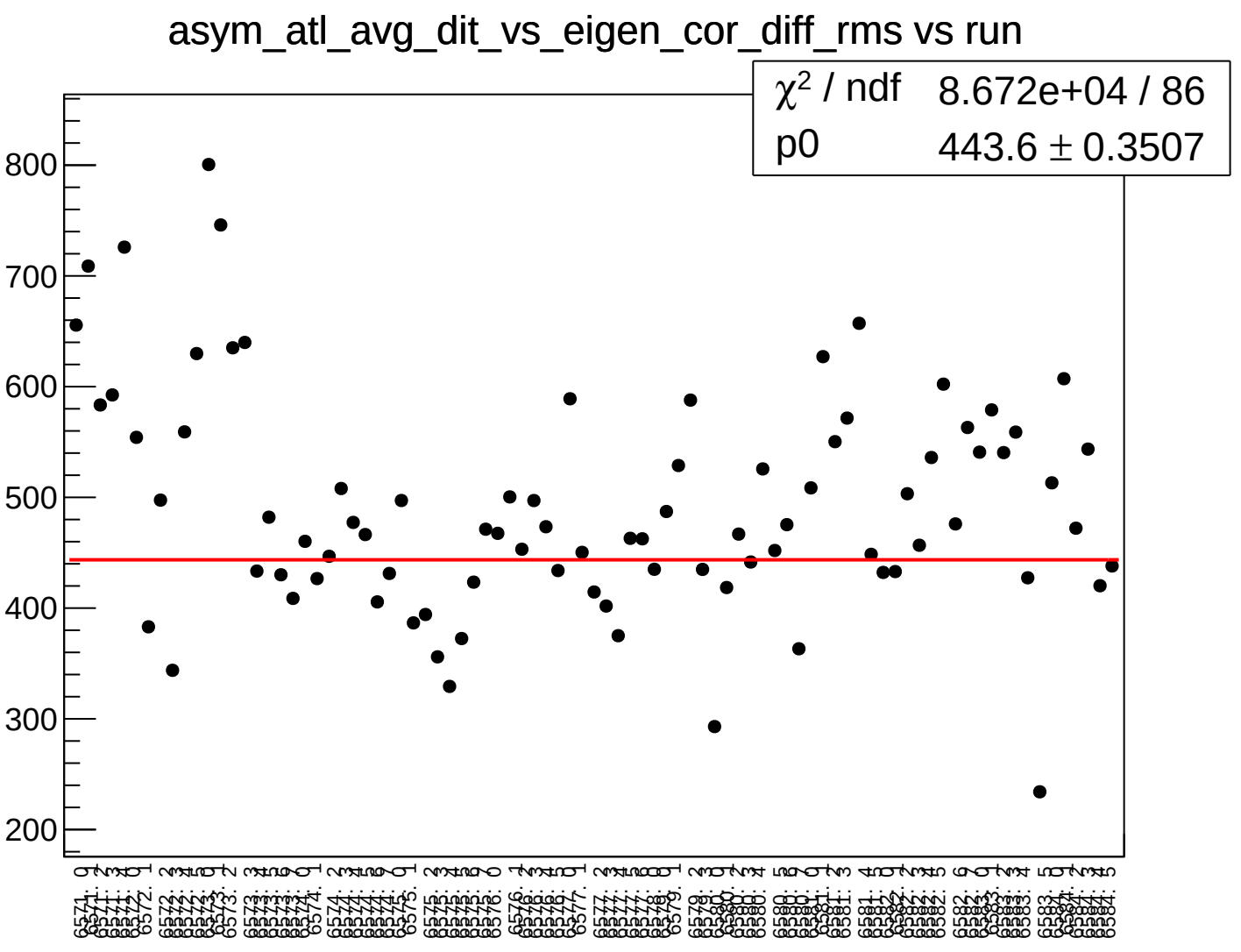

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.36 / 86
p0 −0.0001023 ± 0.496
pull
Entries 87
Mean 82
Std Dev 32.38

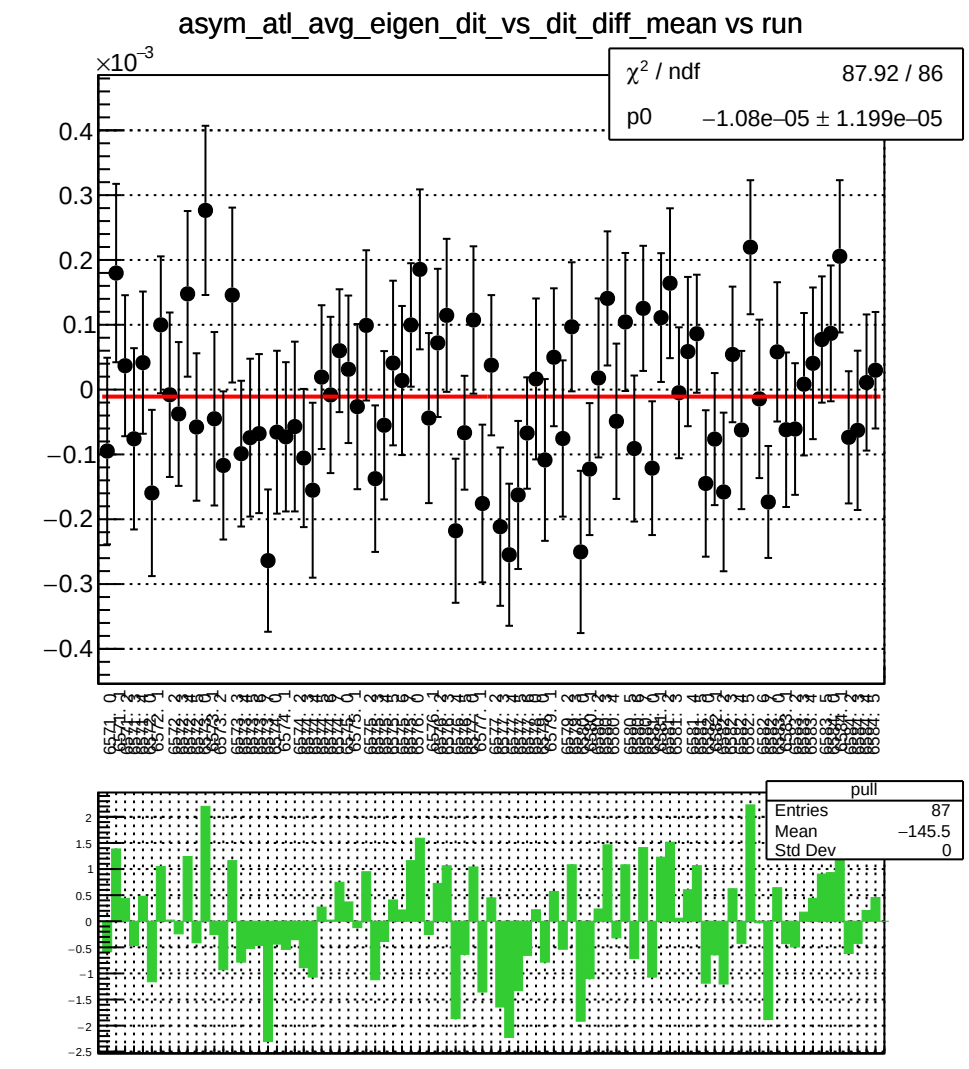

pull1D
Entries 87
Mean 0.0614
Std Dev 1.017

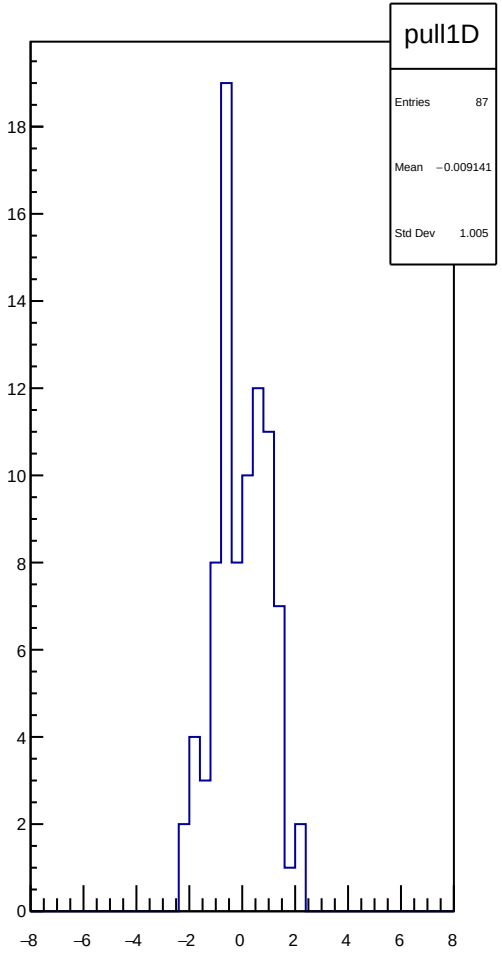

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.672e+04 / 86
p0 443.6 ± 0.3507
800
700
600
500
400
300
200

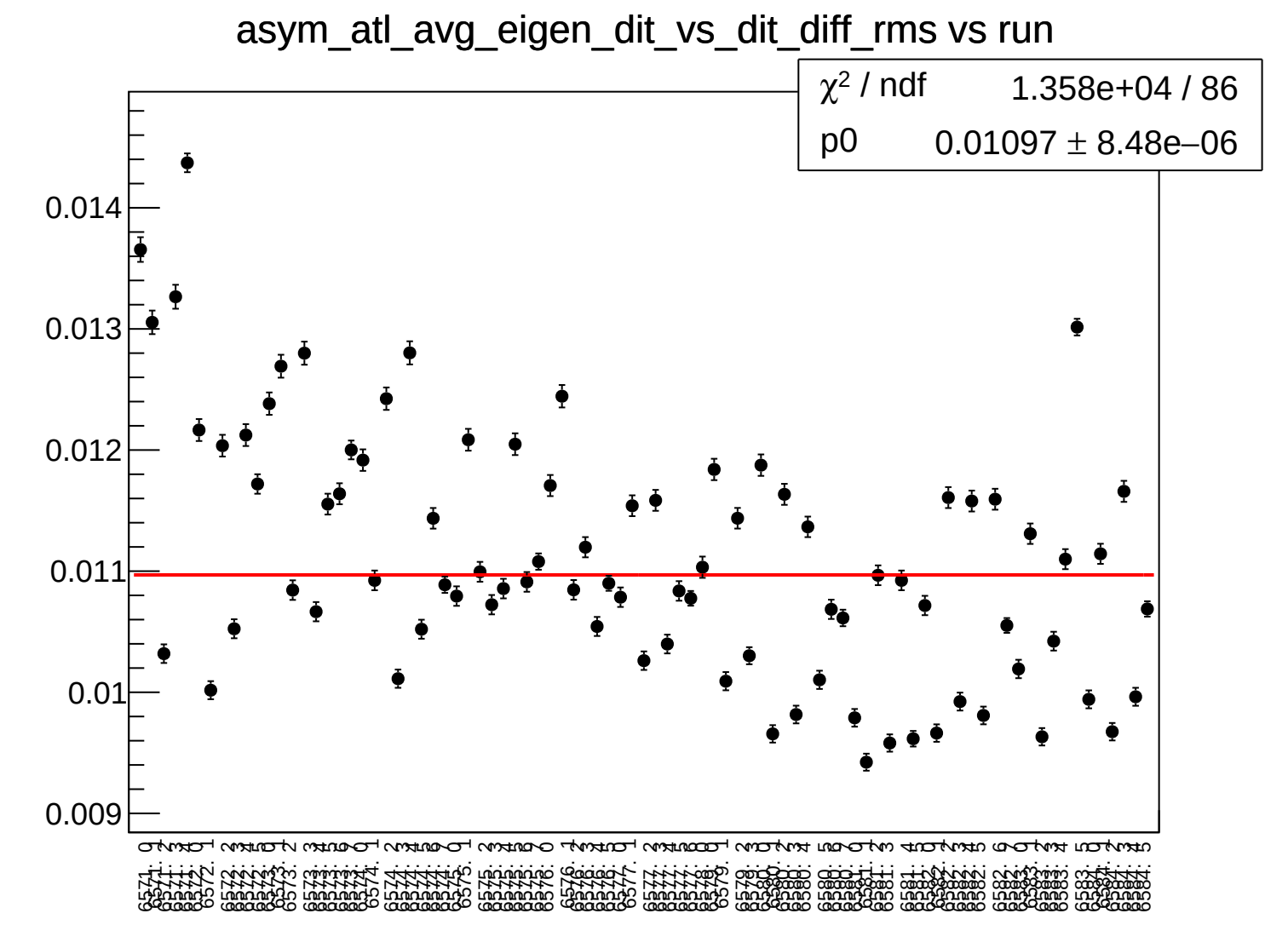

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.36 / 86
p0 −0.0001023 ± 0.496
pull
Entries 87
Mean 82
Std Dev 32.38

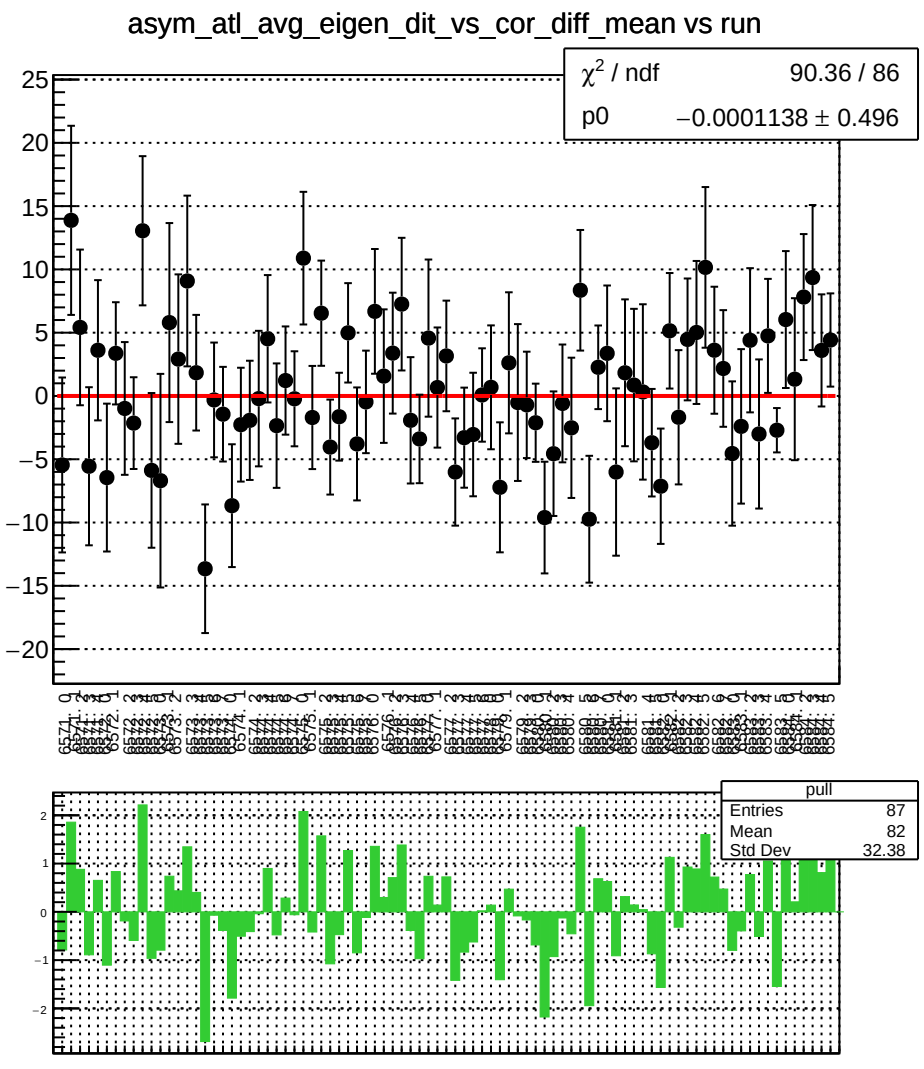

pull1D
Entries 87
Mean 0.0614
Std Dev 1.017

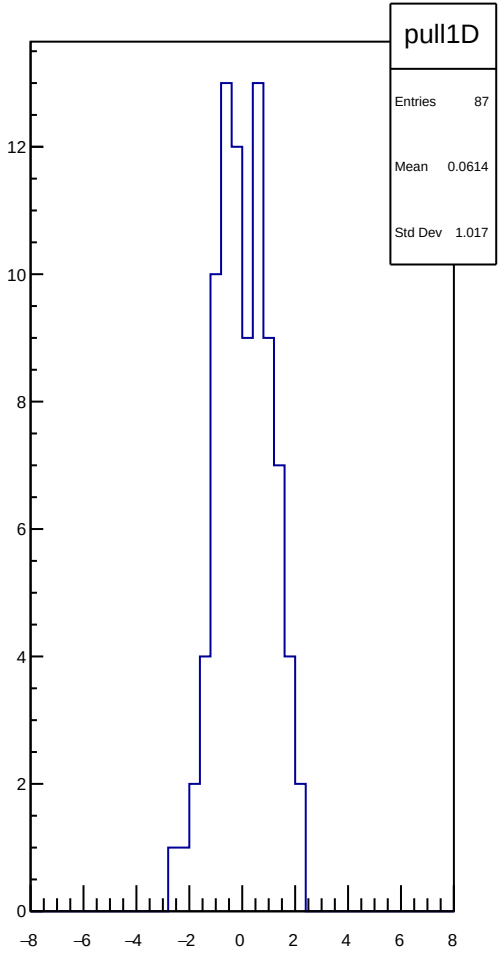

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.672e+04 / 86
p0 443.6 ± 0.3507
800
700
600
500
400
300
200

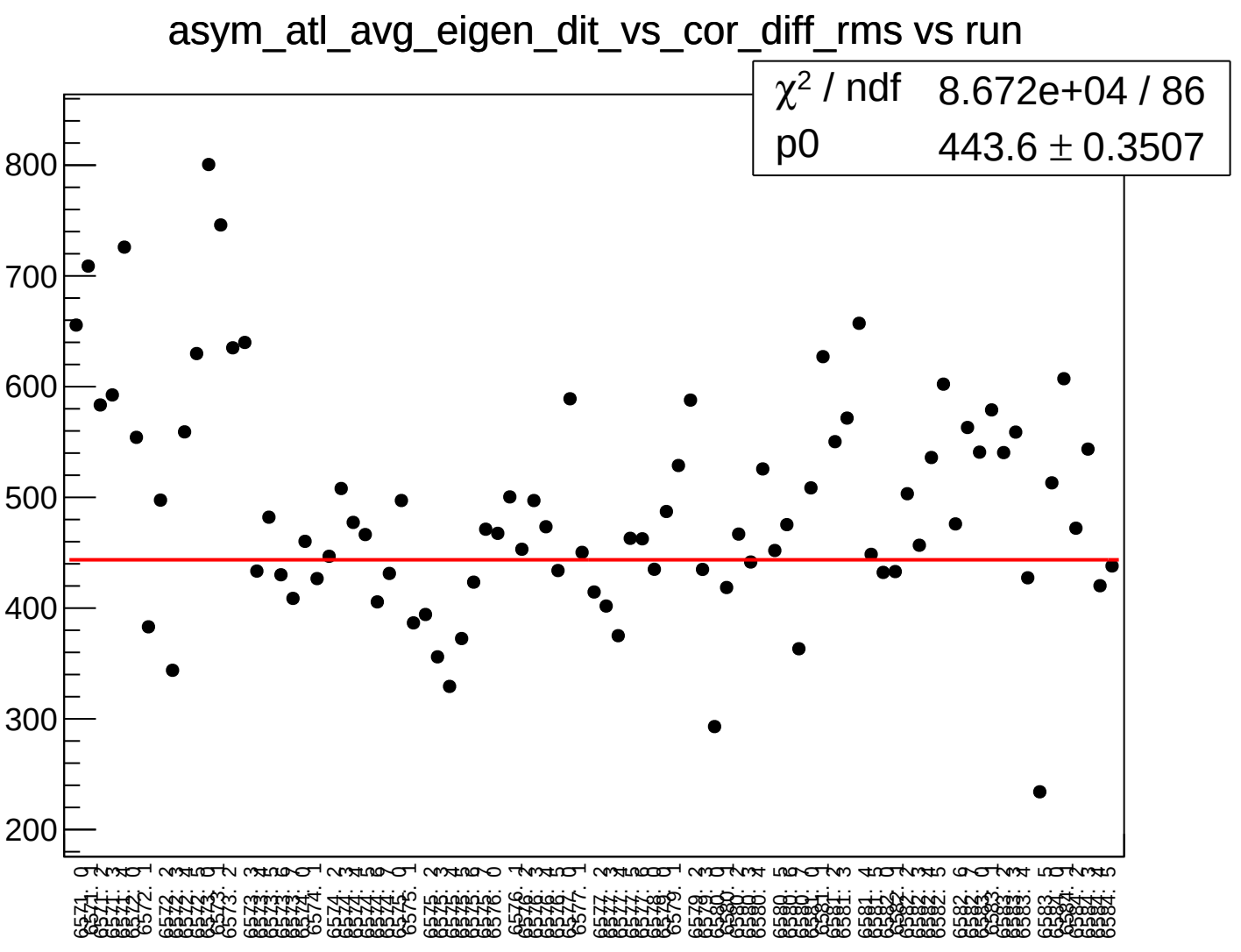

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.92 / 86
p0 −1.08e−05 ± 1.199e−05
pull
Entries 87
Mean −145.5
Std Dev 0

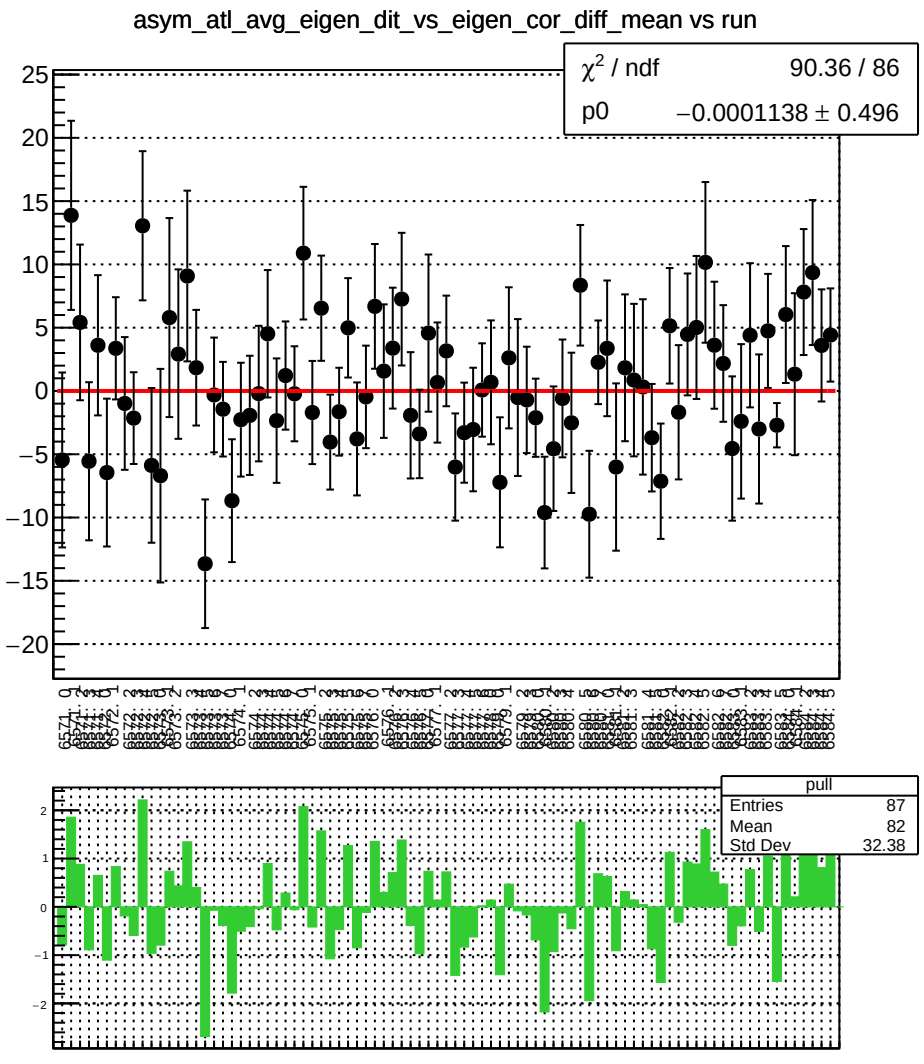

pull1D
Entries 87
Mean −0.009141
Std Dev 1.005

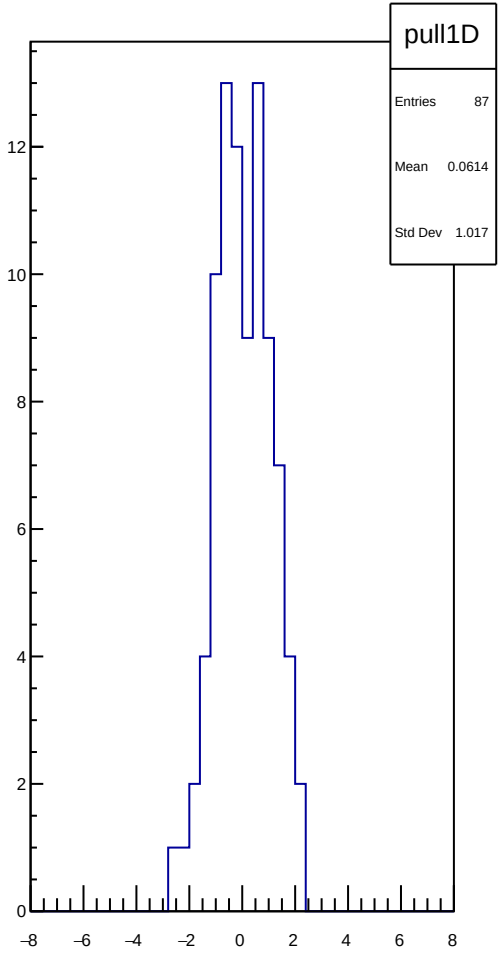

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.358e+04 / 86
p0 0.01097 ± 8.48e−06
0.014
0.013
0.012
0.011
0.01
0.009

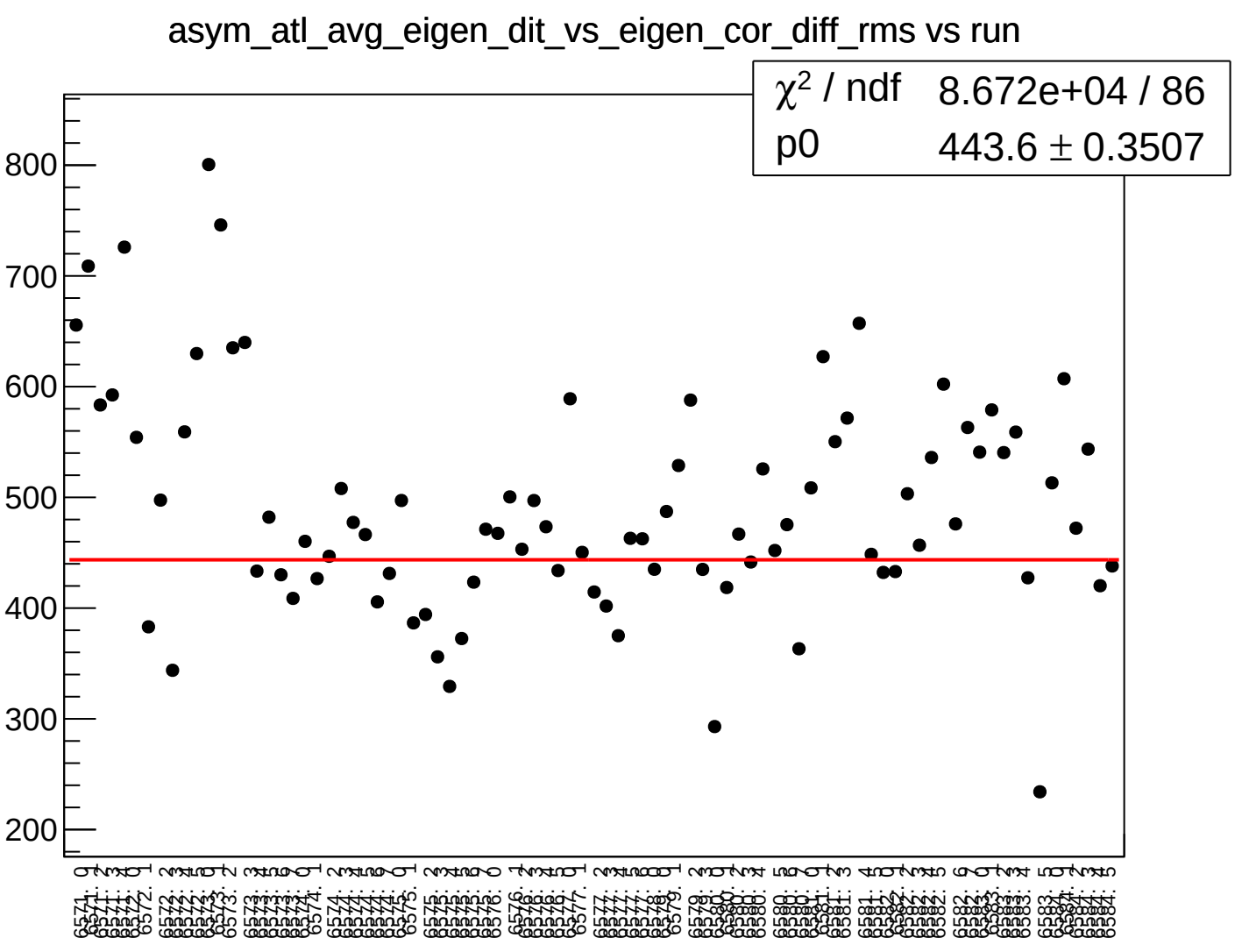

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.36 / 86
p0 −0.0001138 ± 0.496
pull
Entries 87
Mean 82
Std Dev 32.38

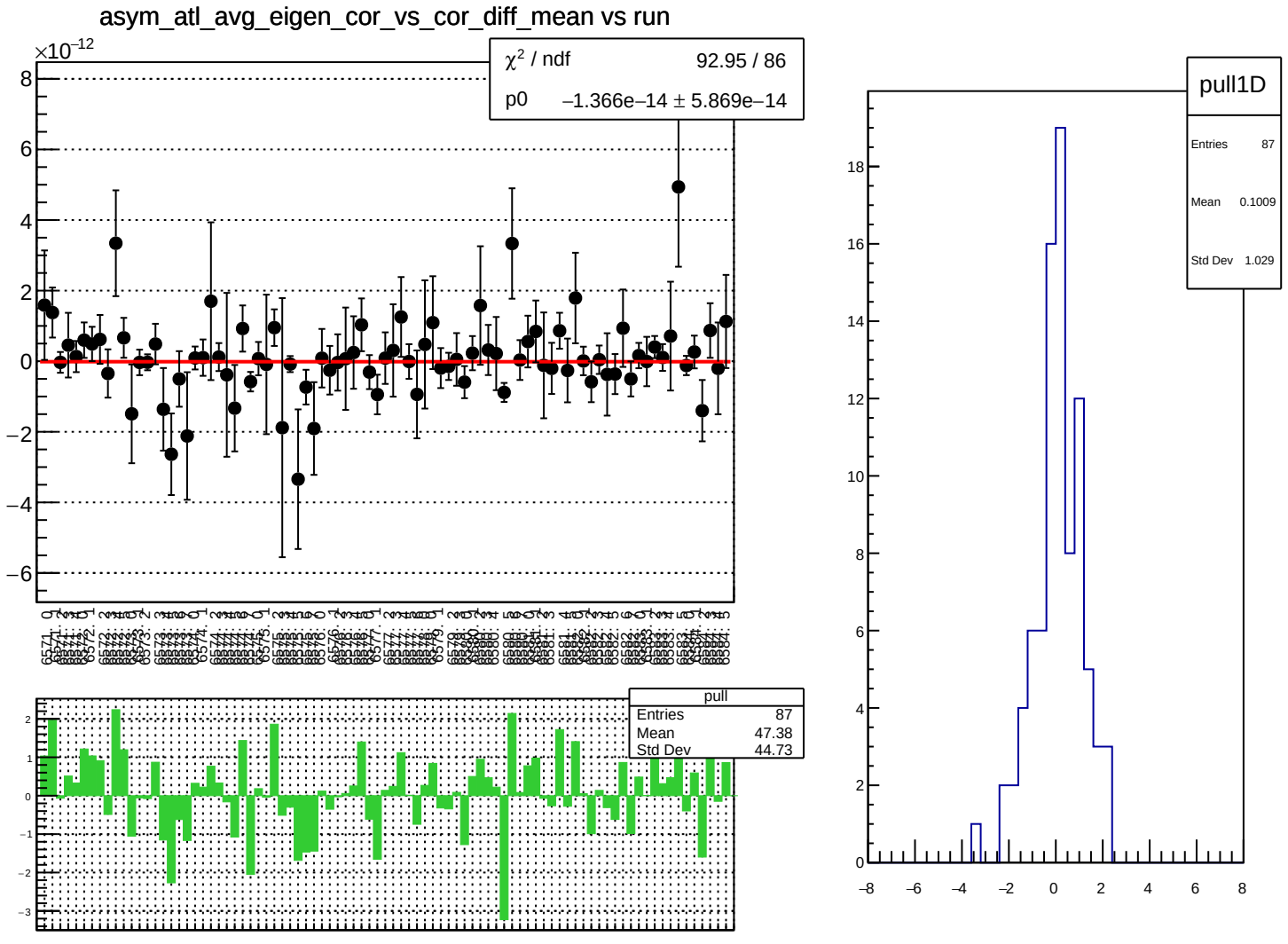

pull1D
Entries 87
Mean 0.0614
Std Dev 1.017

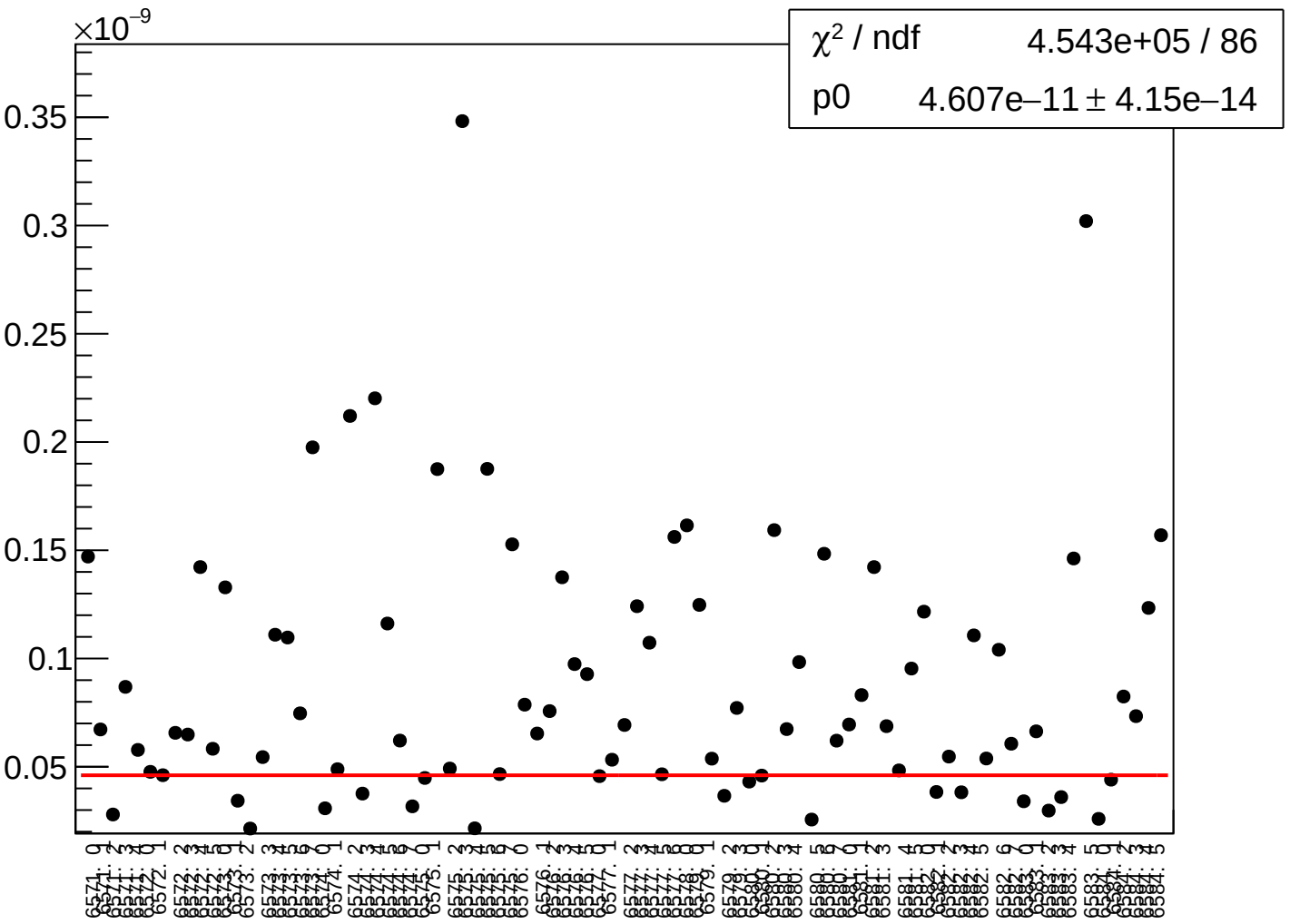

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.672e+04 / 86
p0 443.6 ± 0.3507
800
700
600
500
400
300
200

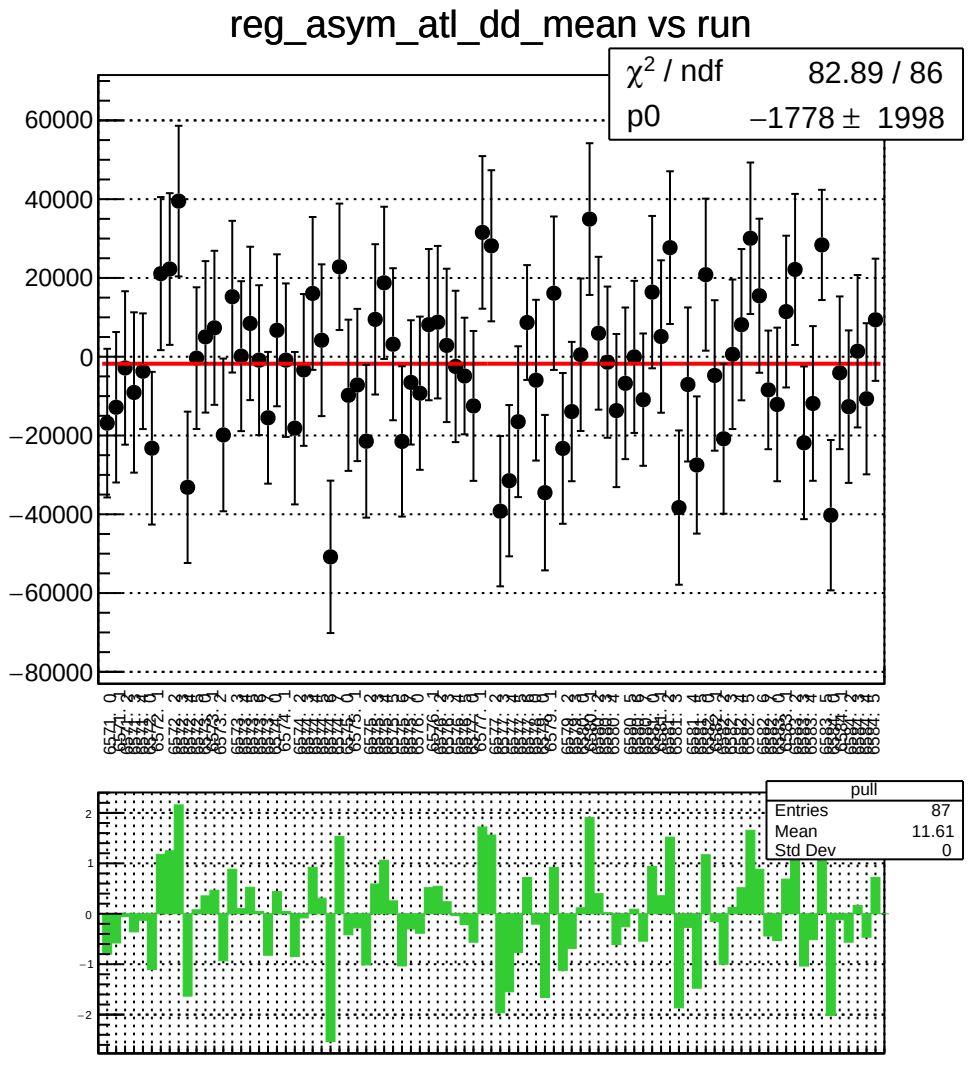

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.36 / 86
p0 −0.0001138 ± 0.496
pull
Entries 87
Mean 82
Std Dev 32.38

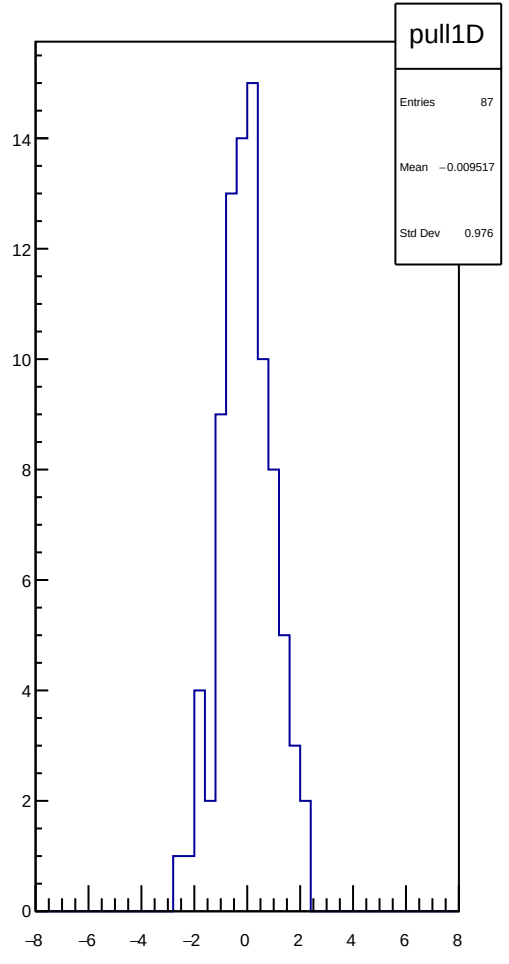

pull1D
Entries 87
Mean 0.0614
Std Dev 1.017

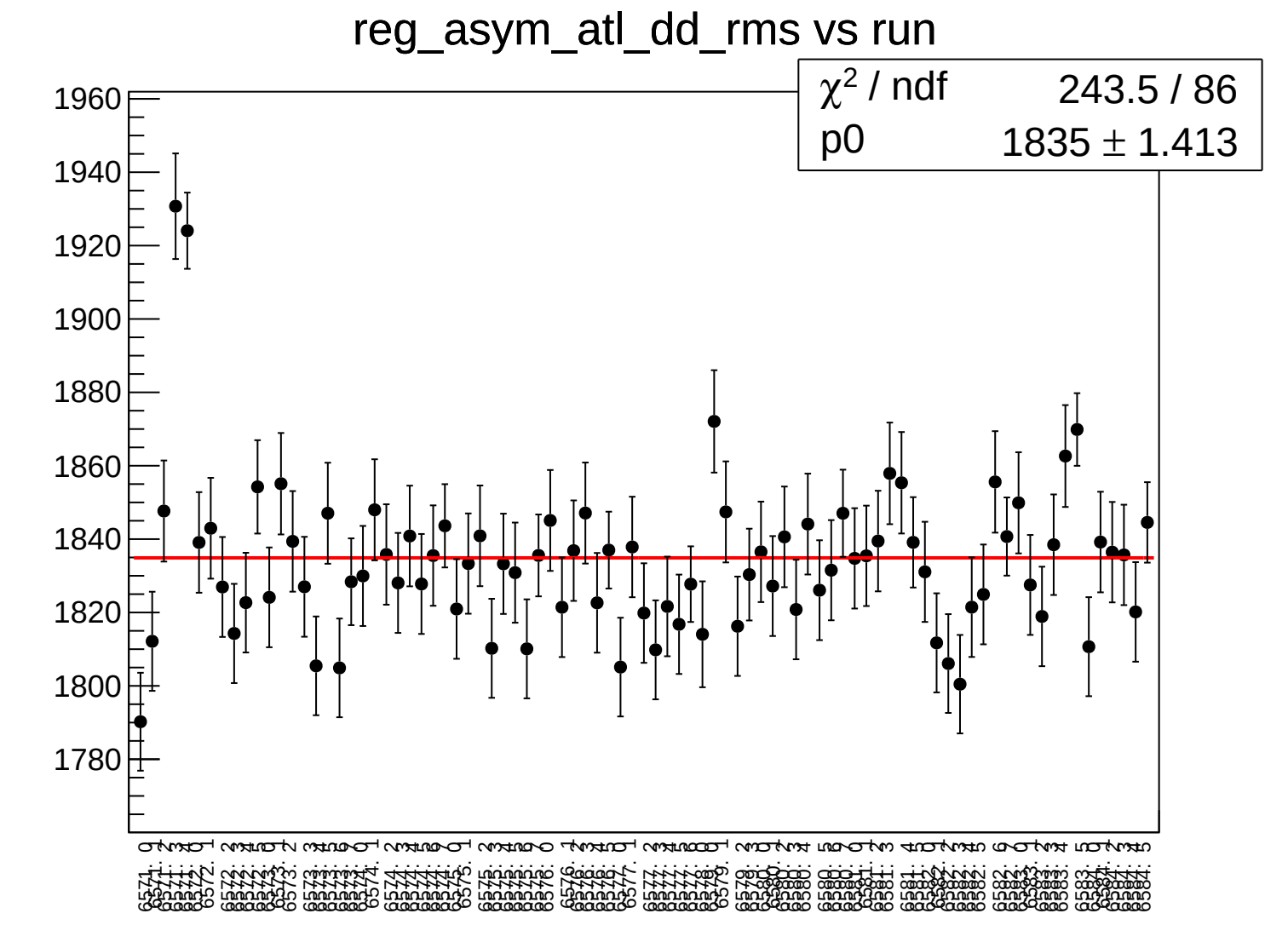

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.672e+04 / 86
p0 443.6 ± 0.3507
800
700
600
500
400
300
200

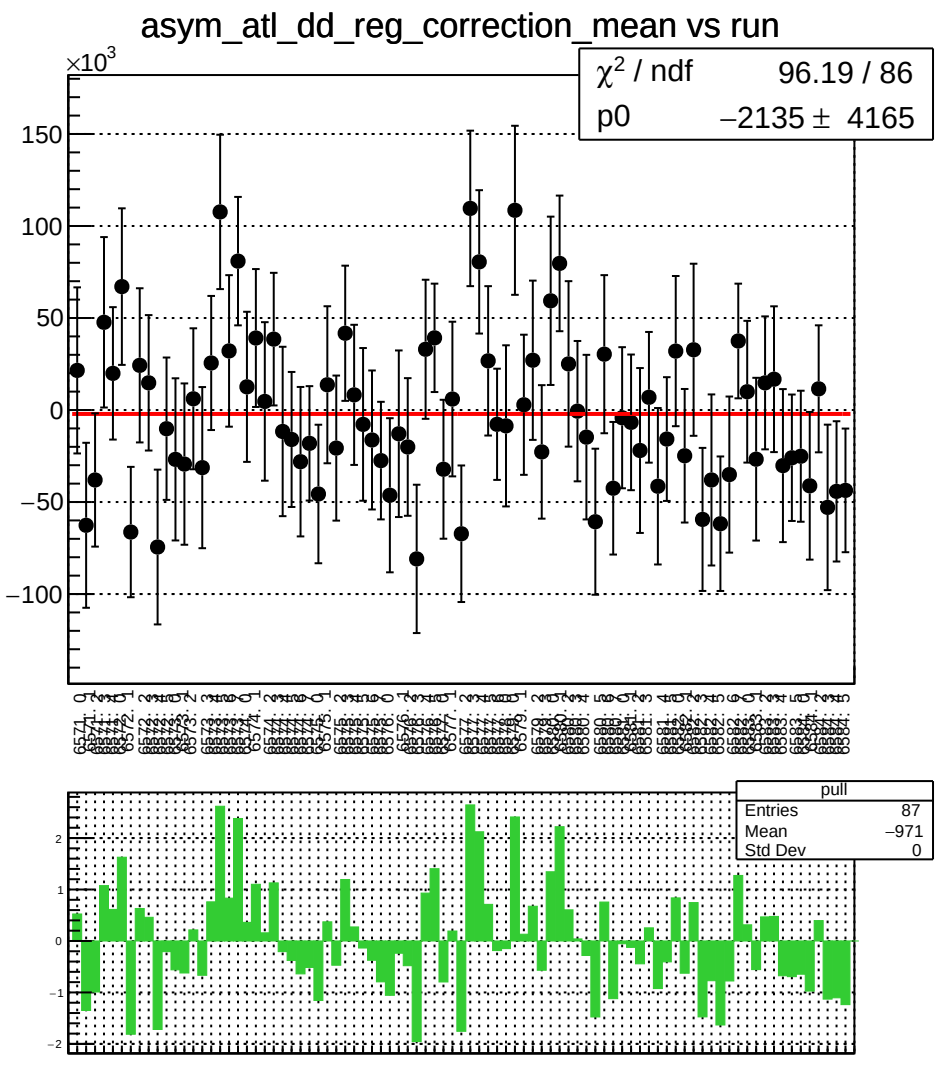

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.95 / 86
p0 −1.366e−14 ± 5.869e−14
pull
Entries 87
Mean 47.38
Std Dev 44.73
pull1D
Entries 87
Mean 0.1009
Std Dev 1.029

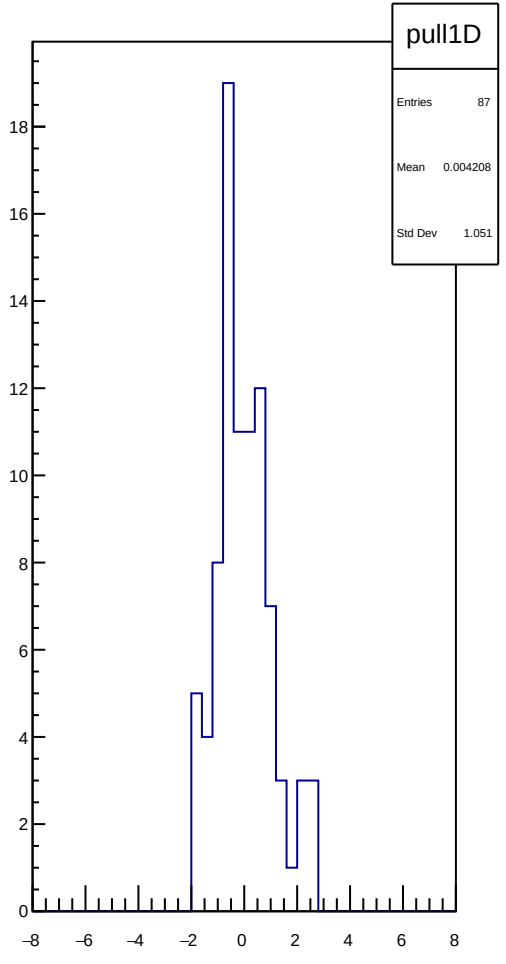

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.543e+05 / 86
p0 4.607e−11 ± 4.15e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

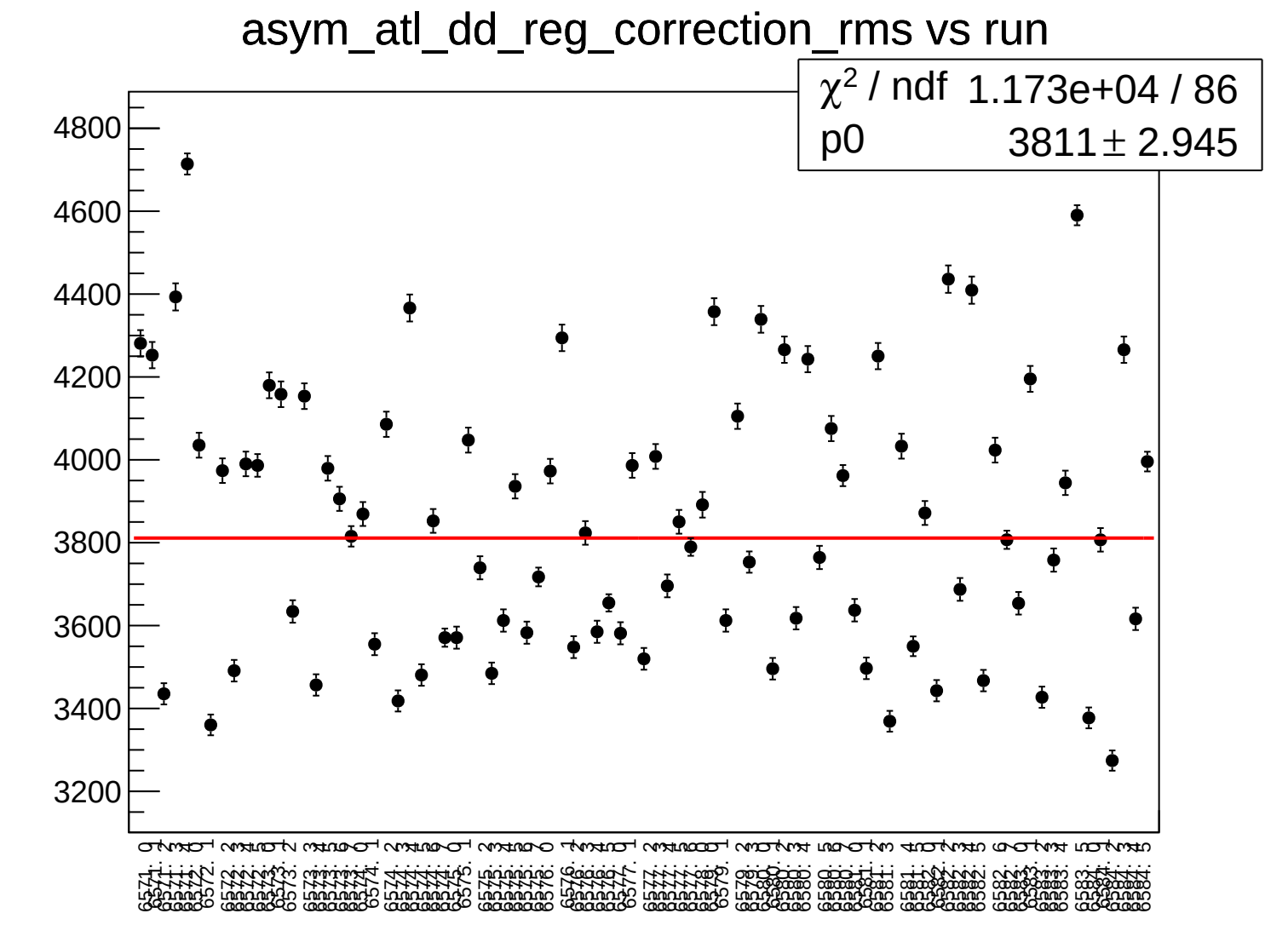

reg_asym_atl_dd_mean vs run
χ² / ndf 82.89 / 86
p0 −1778 ± 1998
pull
Entries 87
Mean 11.61
Std Dev 0

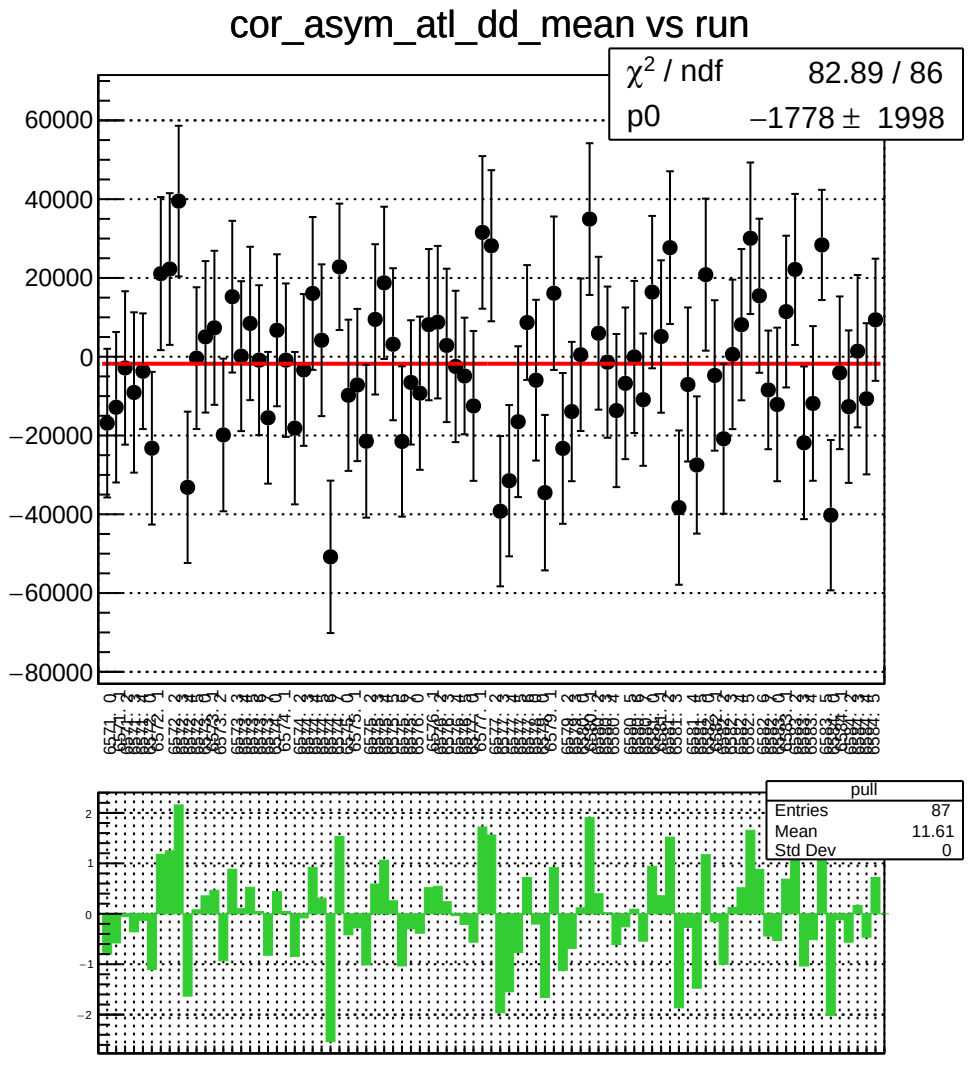

pull1D
Entries 87
Mean −0.009517
Std Dev 0.976

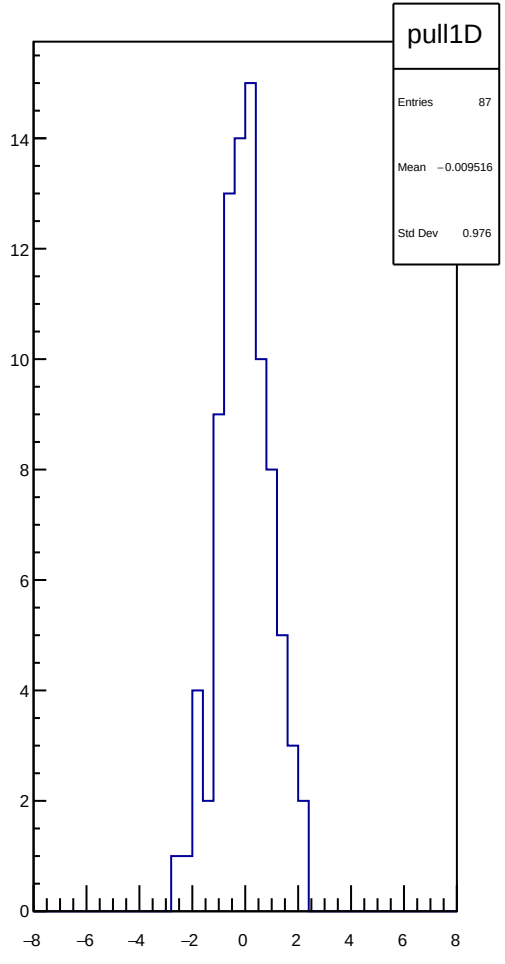

reg_asym_atl_dd_rms vs run
χ² / ndf 243.5 / 86
p0 1835 ± 1.413
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

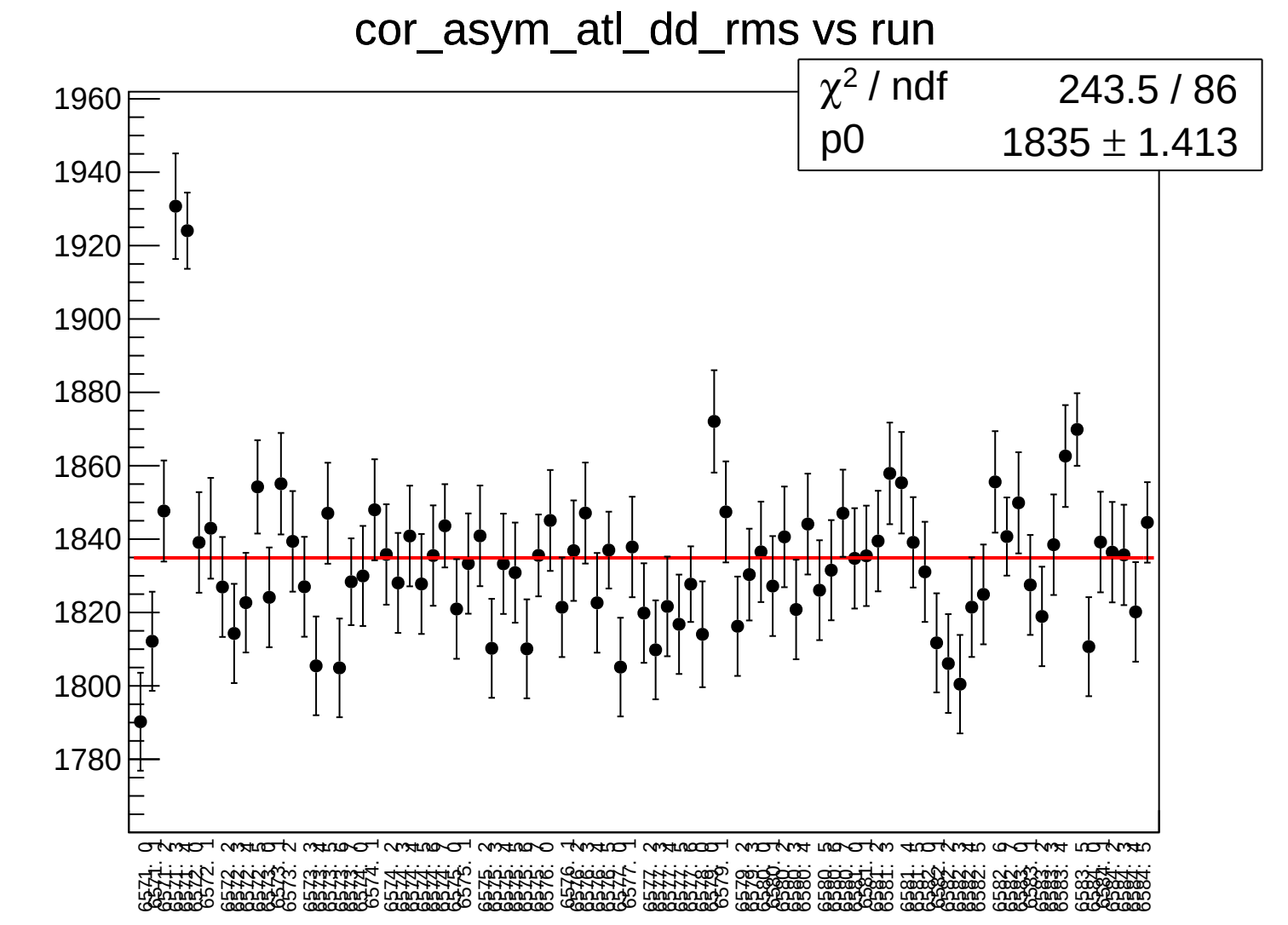

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.19 / 86
p0 −2135 ± 4165
150
100
50
0
−50
−100
pull
Entries 87
Mean −971
Std Dev 0
2
1
0
−1
−2

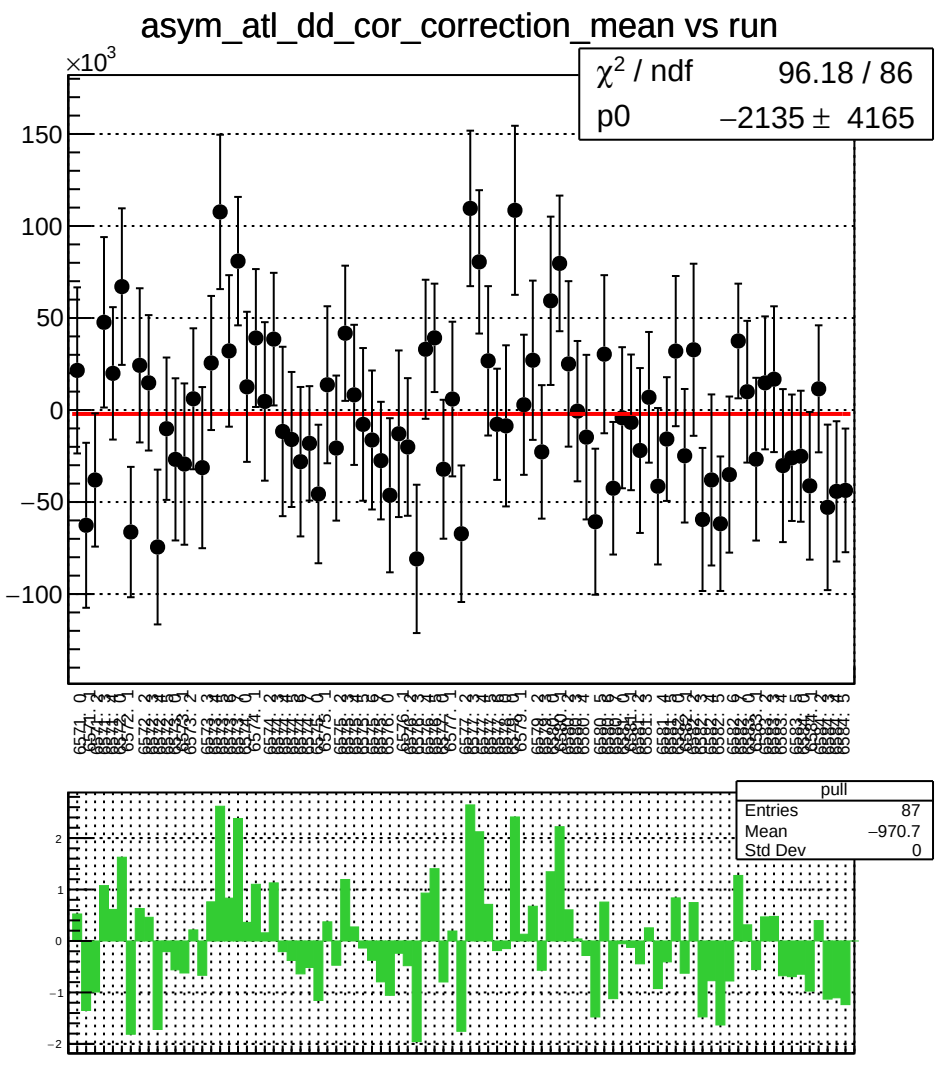

pull1D
Entries 87
Mean 0.004208
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

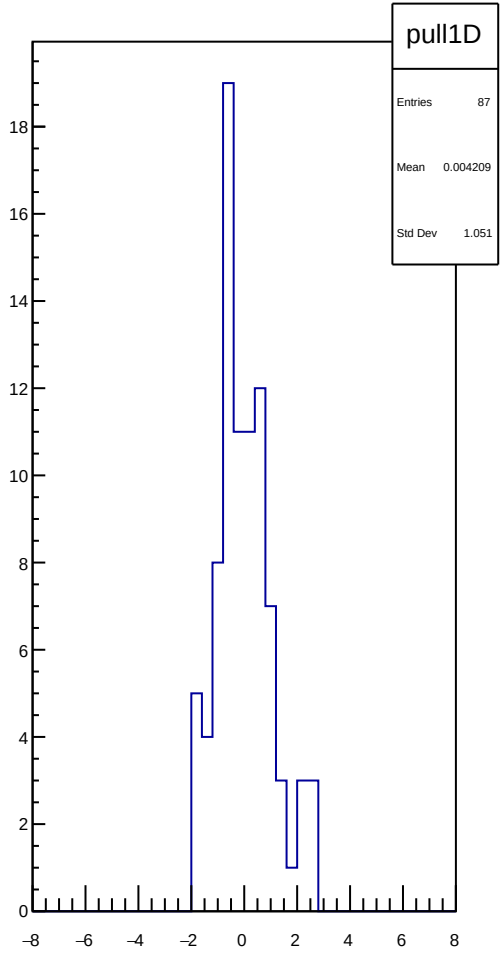

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.173e+04 / 86
p0 3811 ± 2.945
4800
4600
4400
4200
4000
3800
3600
3400
3200

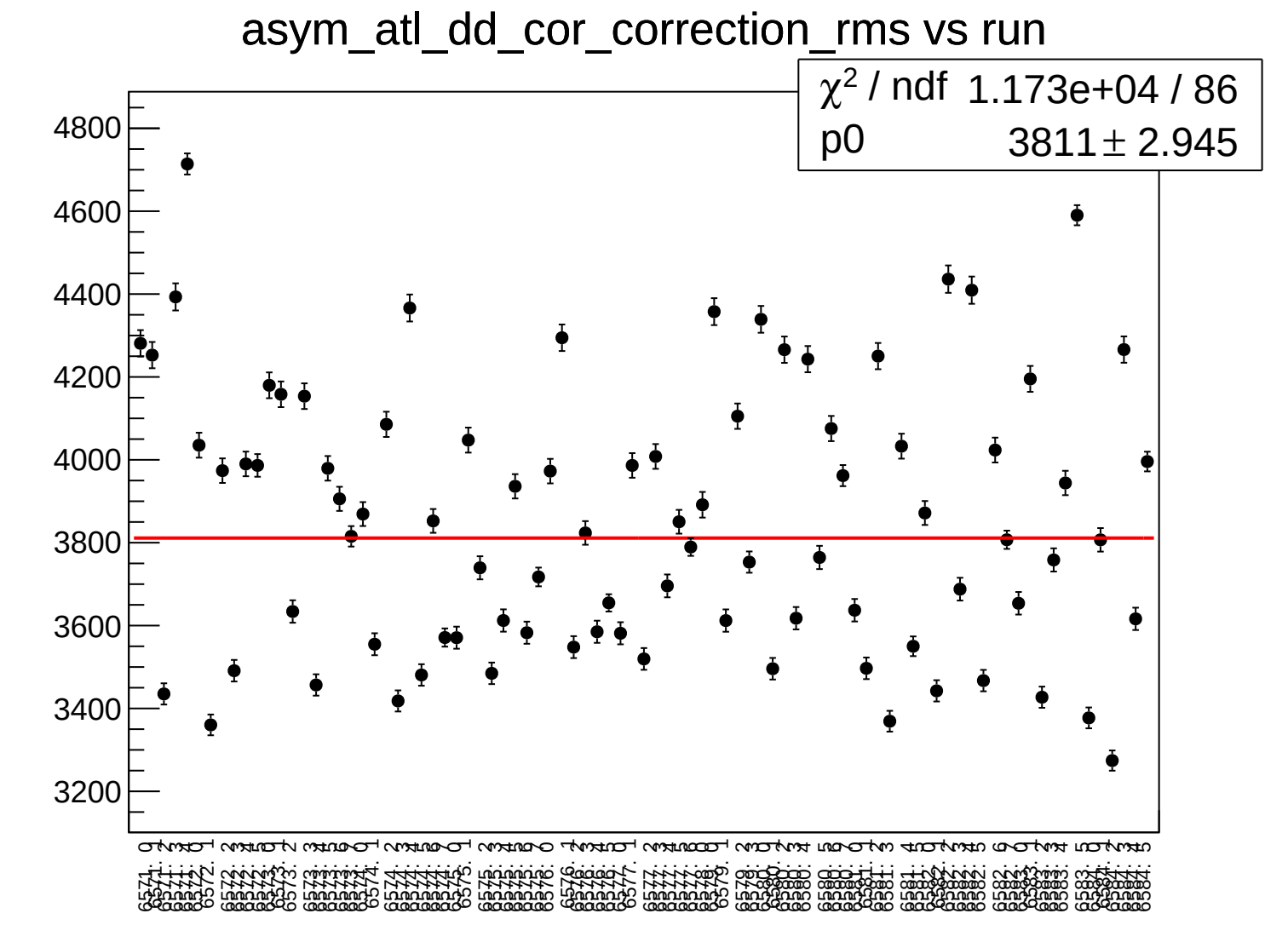

cor_asym_atl_dd_mean vs run
χ² / ndf 82.89 / 86
p0 −1778 ± 1998
pull
Entries 87
Mean 11.61
Std Dev 0

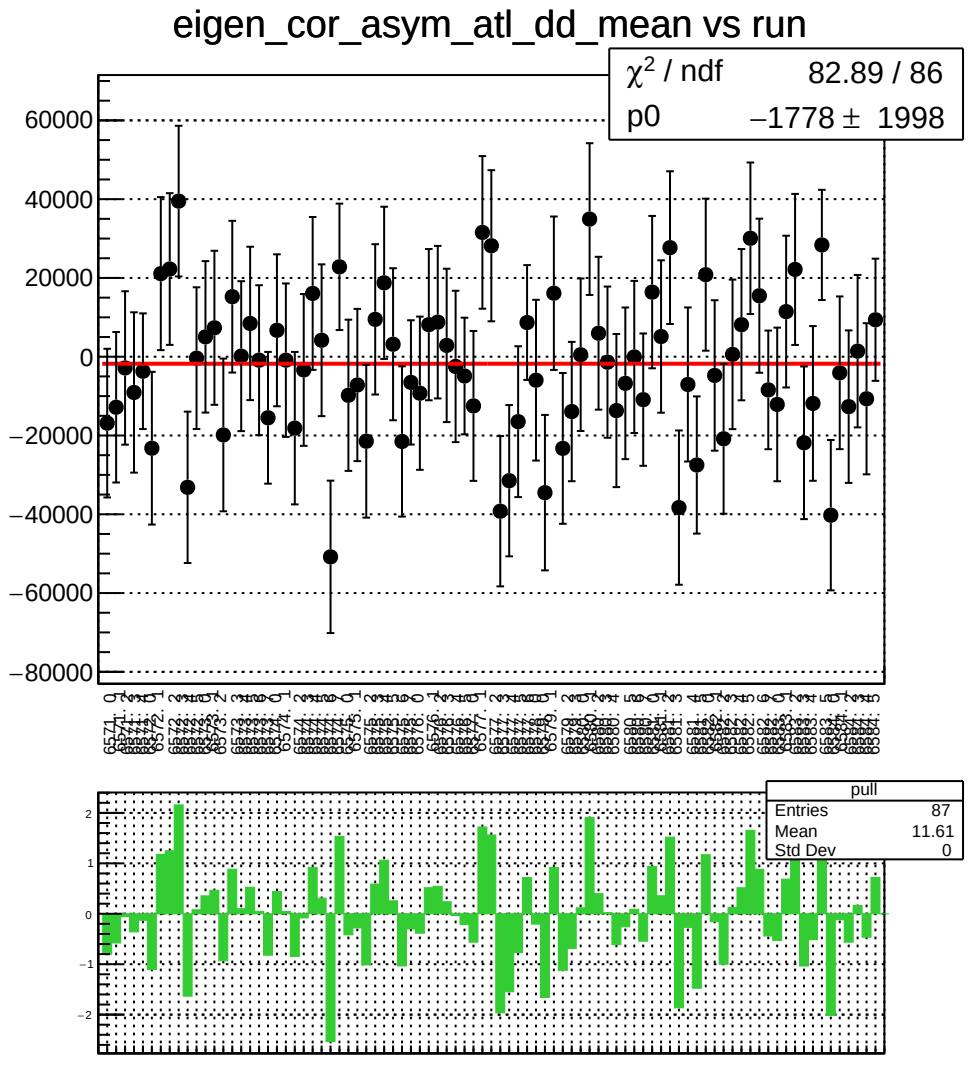

pull1D
Entries 87
Mean −0.009516
Std Dev 0.976

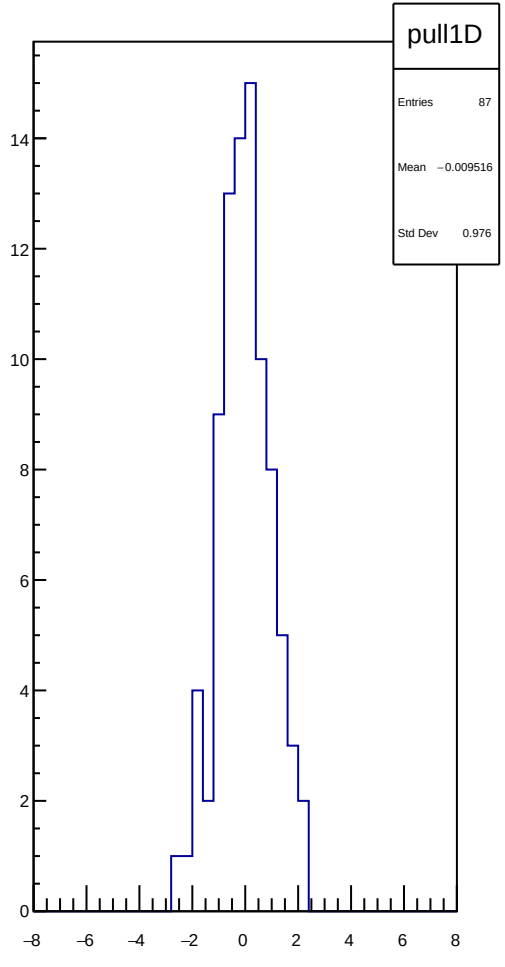

cor_asym_atl_dd_rms vs run
χ² / ndf 243.5 / 86
p0 1835 ± 1.413
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

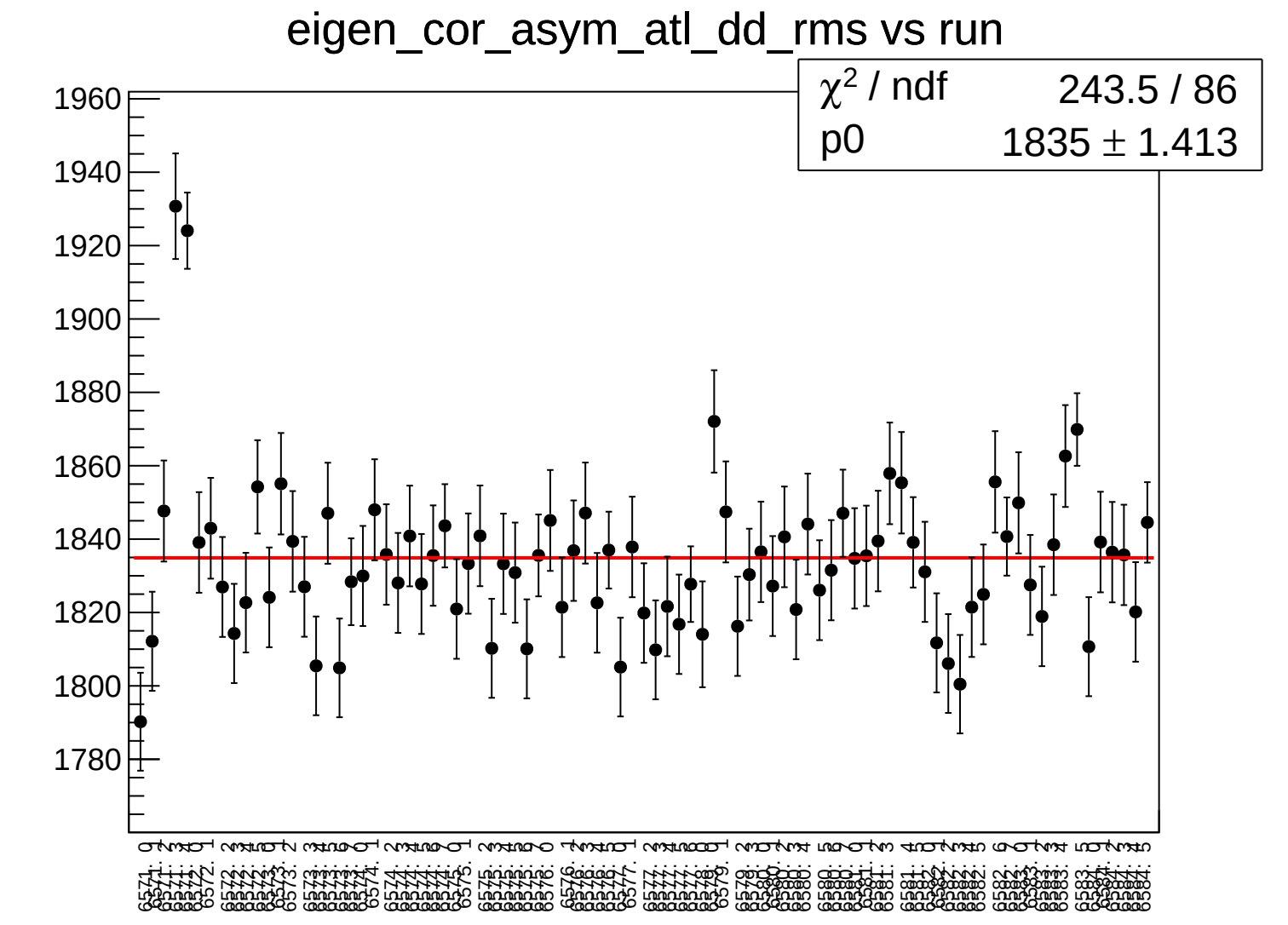

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 96.18 / 86
p0 −2135 ± 4165
×10³
150
100
50
0
−50
−100
pull
Entries 87
Mean −970.7
Std Dev 0
2
1
0
−1
−2

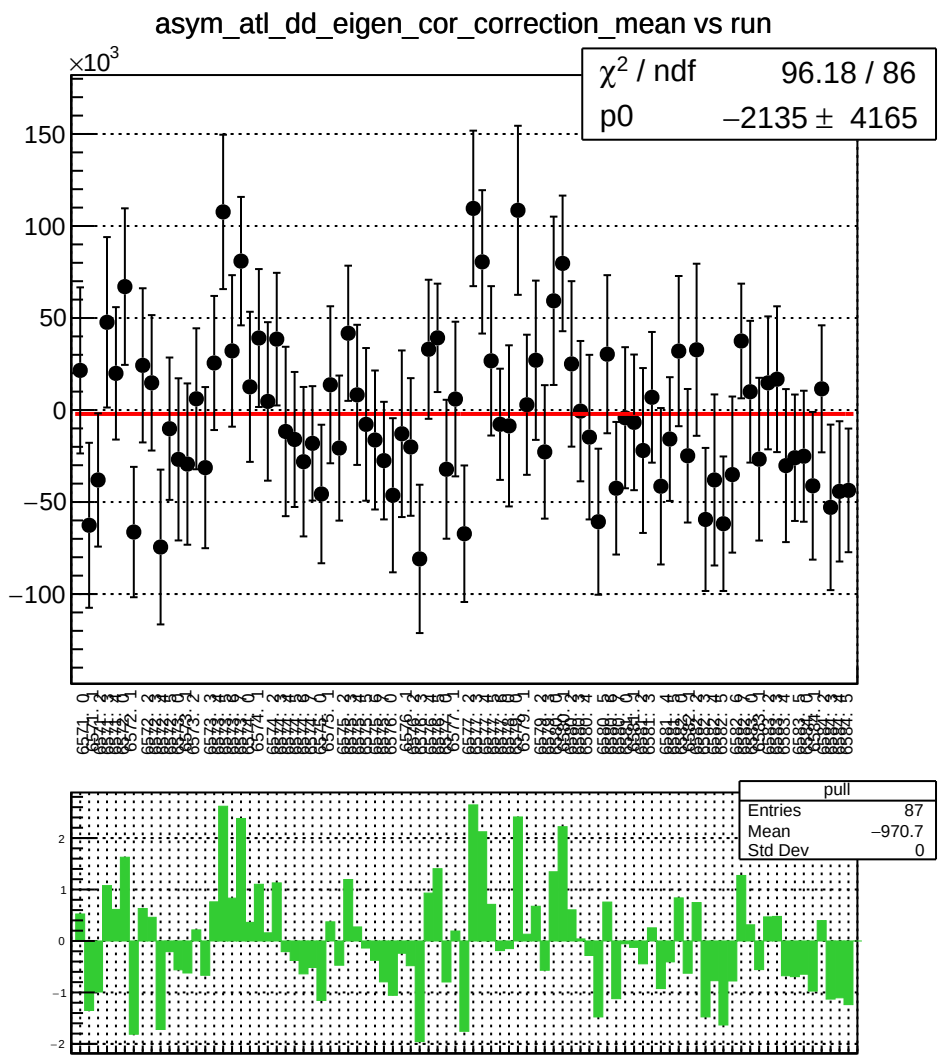

pull1D
Entries 87
Mean 0.004209
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

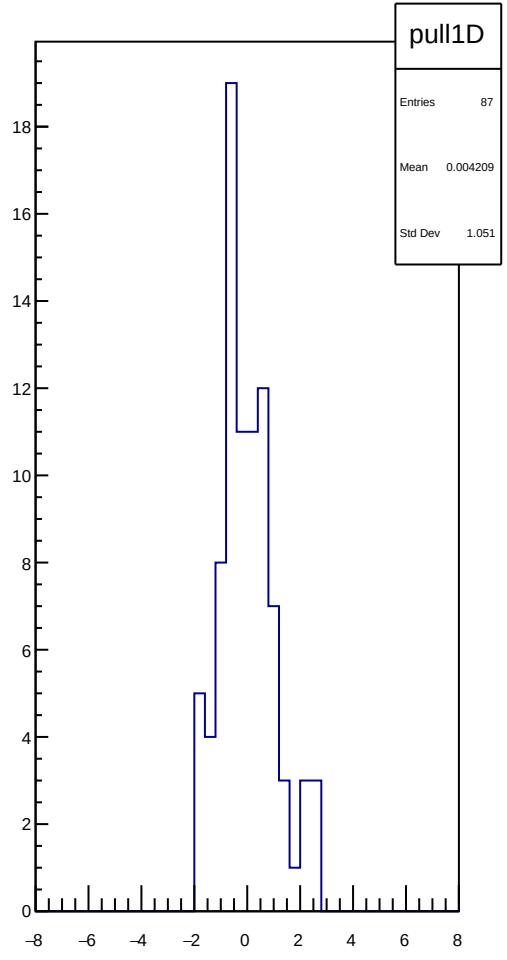

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.173e+04 / 86
p0 3811 ± 2.945
4800
4600
4400
4200
4000
3800
3600
3400
3200

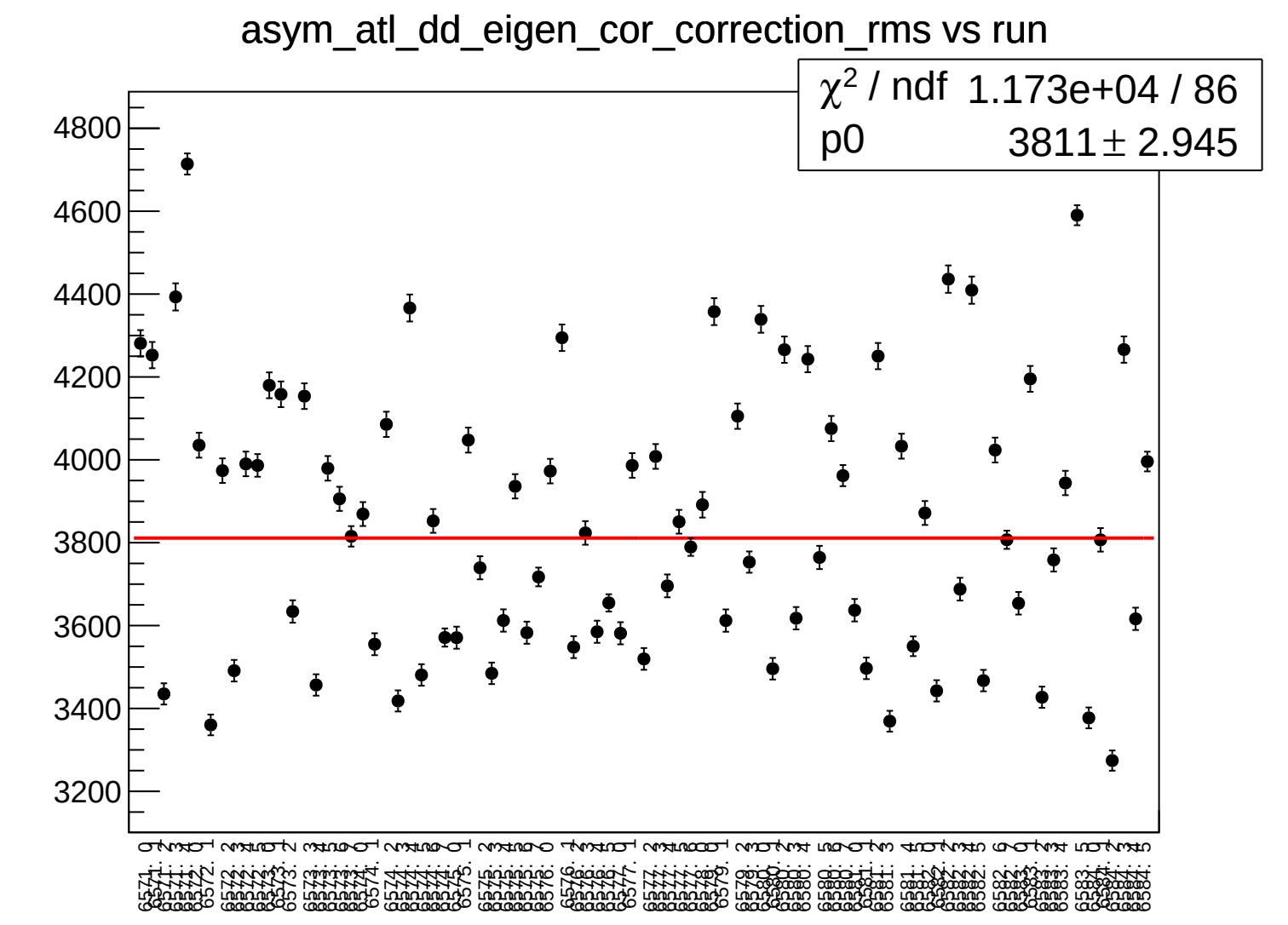

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 82.89 / 86
p0 −1778 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 11.61
Std Dev 0
2
1
0
−1
−2

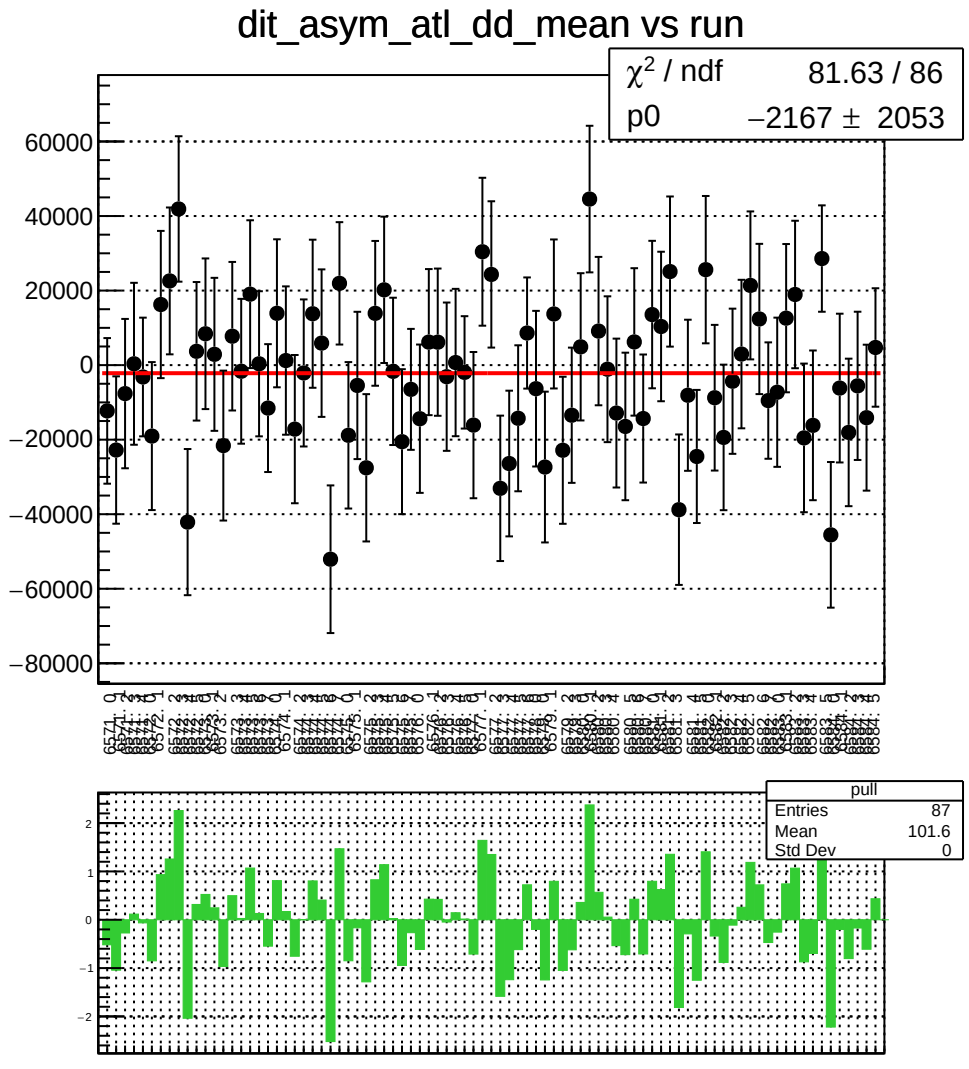

pull1D
Entries 87
Mean −0.009516
Std Dev 0.976
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

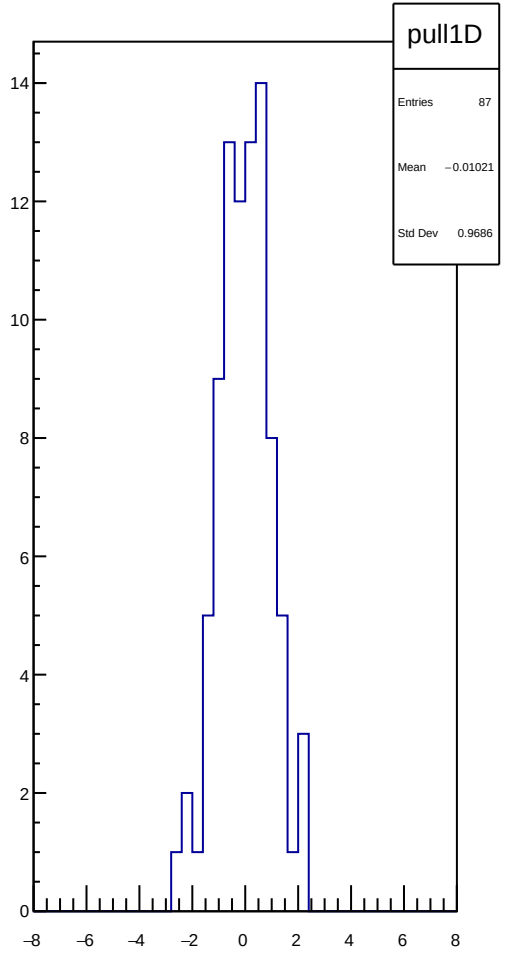

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 243.5 / 86
p0 1835 ± 1.413
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

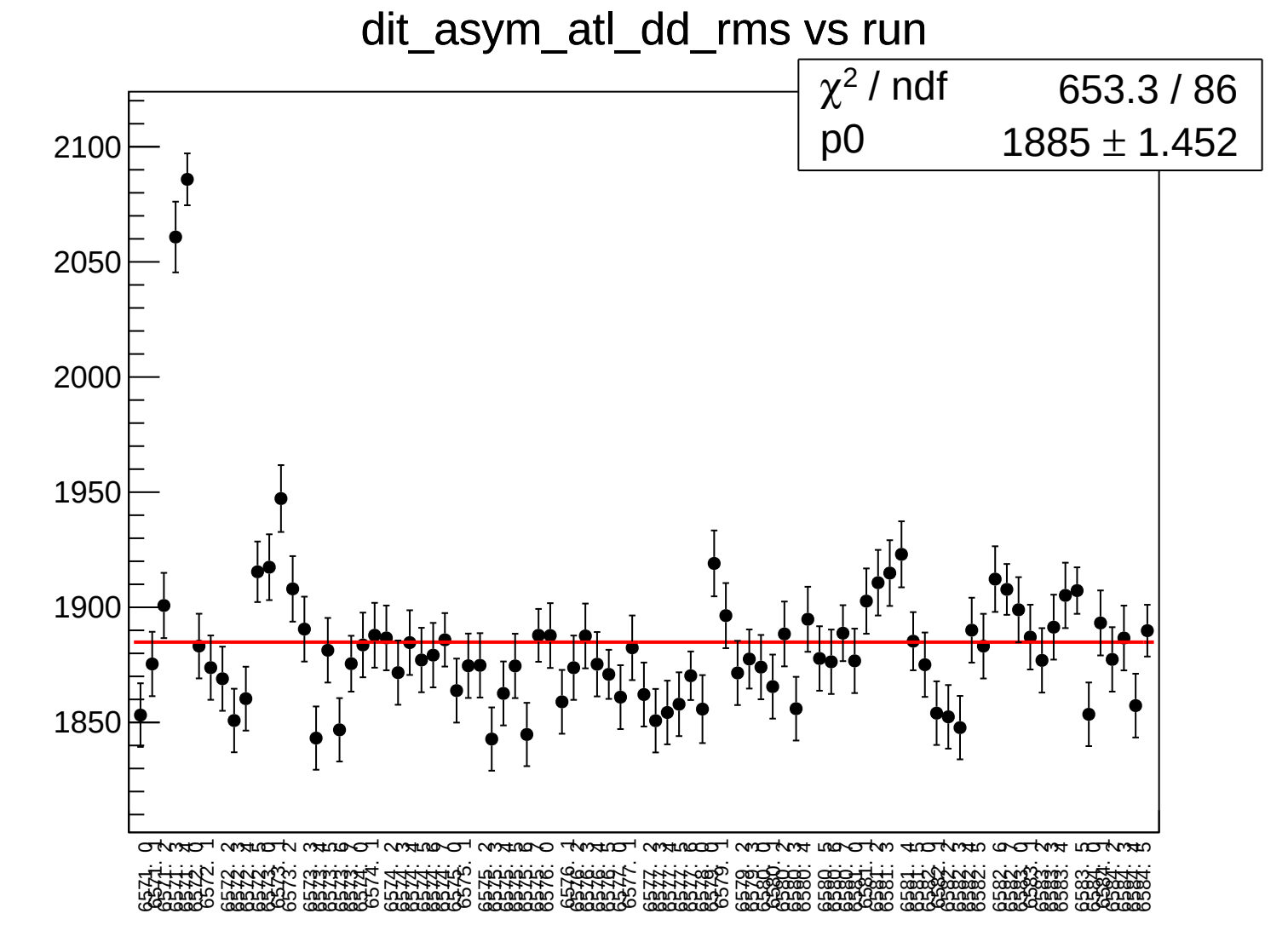

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.18 / 86
p0 −2135 ± 4165
150
100
50
0
−50
−100
pull
Entries 87
Mean −970.7
Std Dev 0
2
1
0
−1
−2

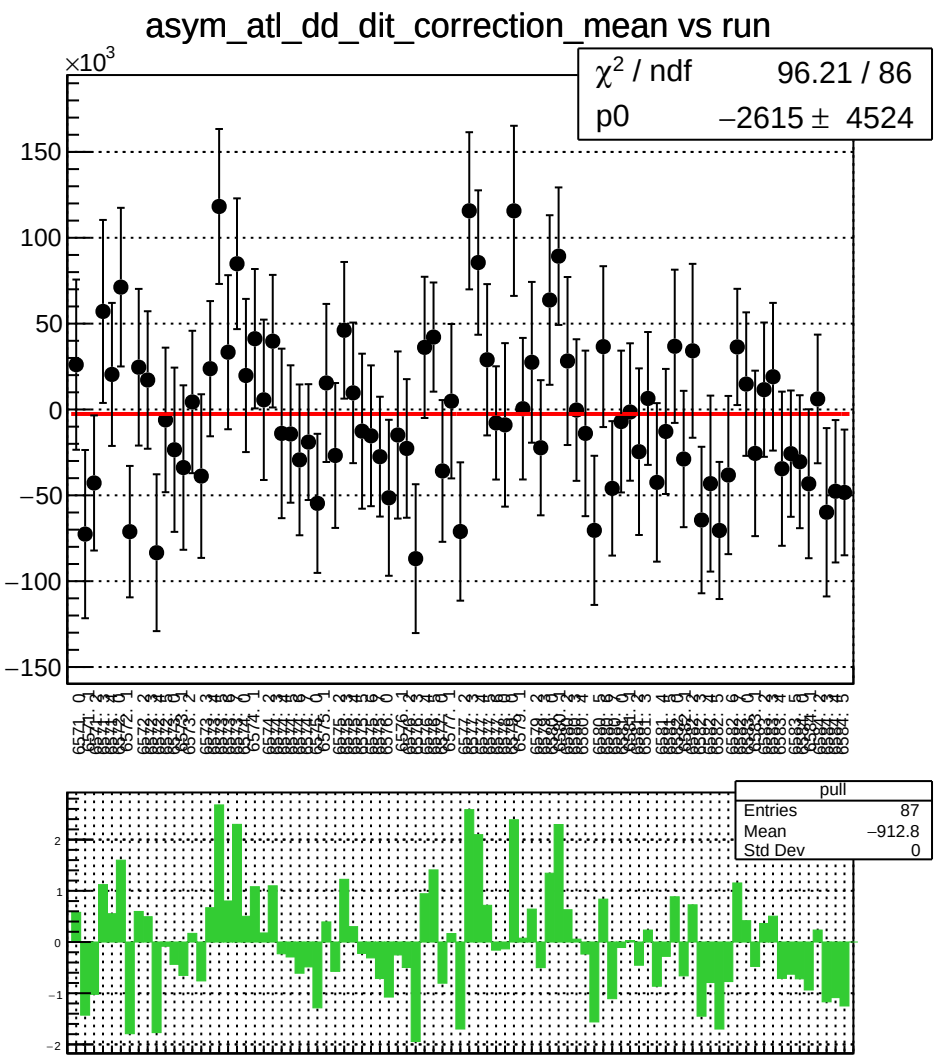

pull1D
Entries 87
Mean 0.004209
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

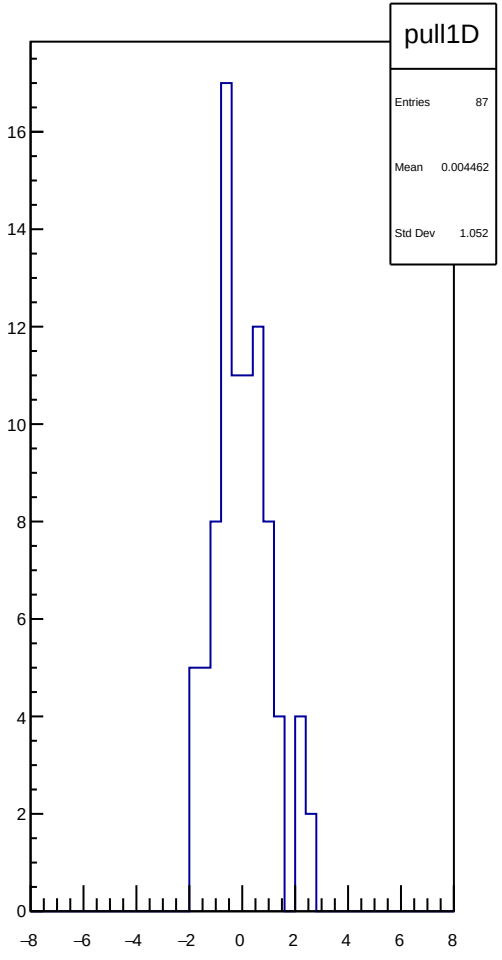

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.173e+04 / 86
p0 3811 ± 2.945
4800
4600
4400
4200
4000
3800
3600
3400
3200

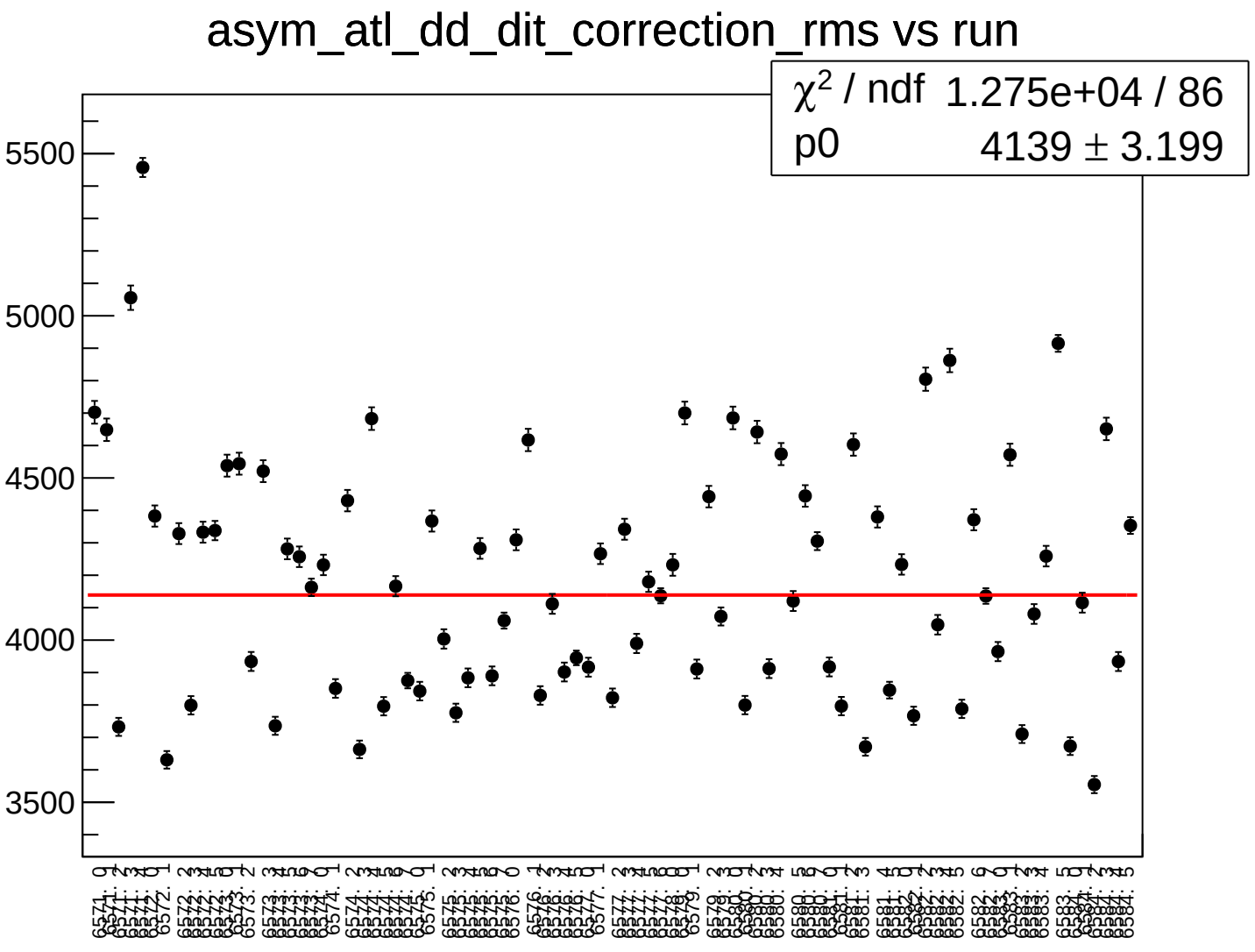

dit_asym_atl_dd_mean vs run
χ² / ndf 81.63 / 86
p0 −2167 ± 2053
pull
Entries 87
Mean 101.6
Std Dev 0

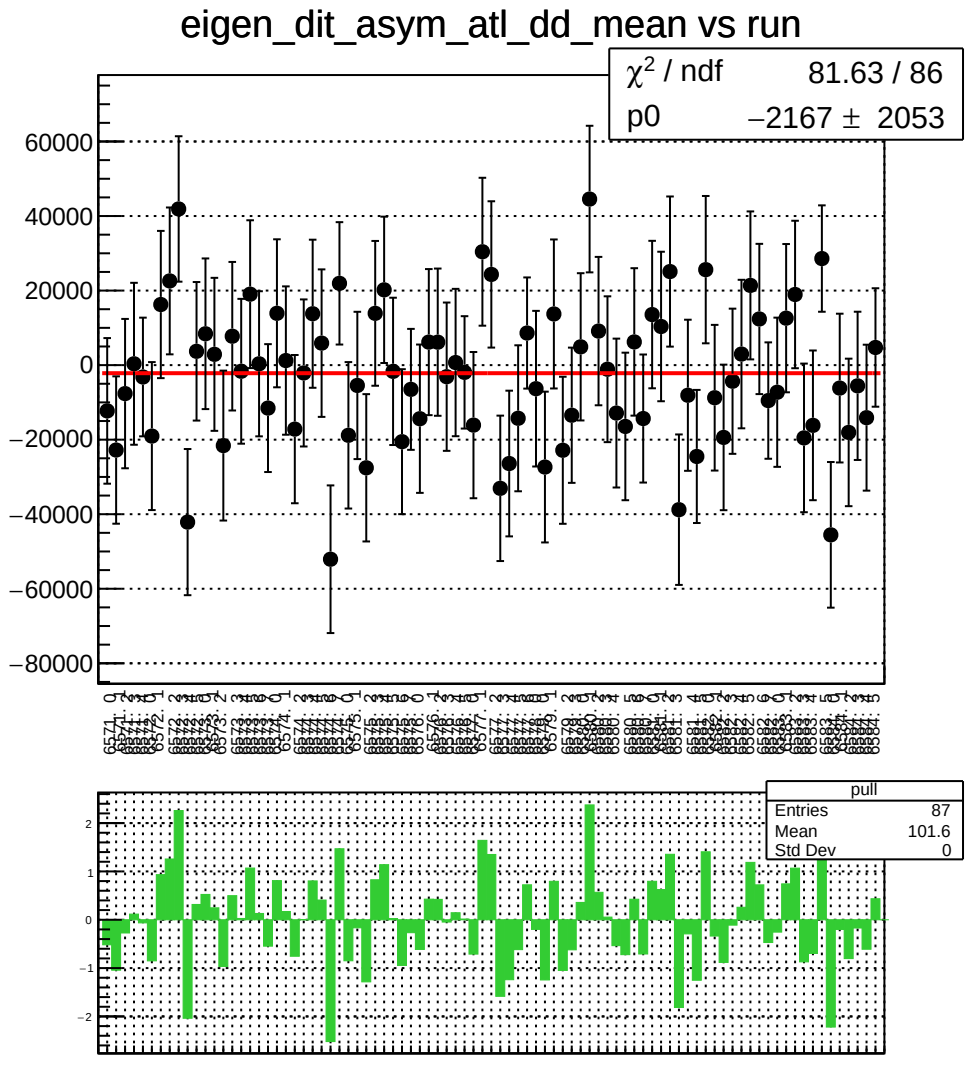

pull1D
Entries 87
Mean −0.01021
Std Dev 0.9686

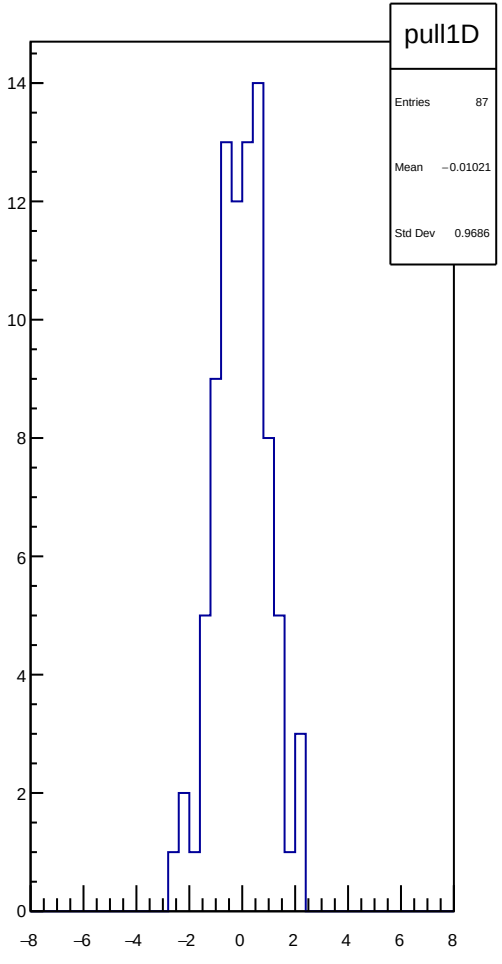

dit_asym_atl_dd_rms vs run
χ^2 / ndf 653.3 / 86
p0 1885 ± 1.452
2100
2050
2000
1950
1900
1850

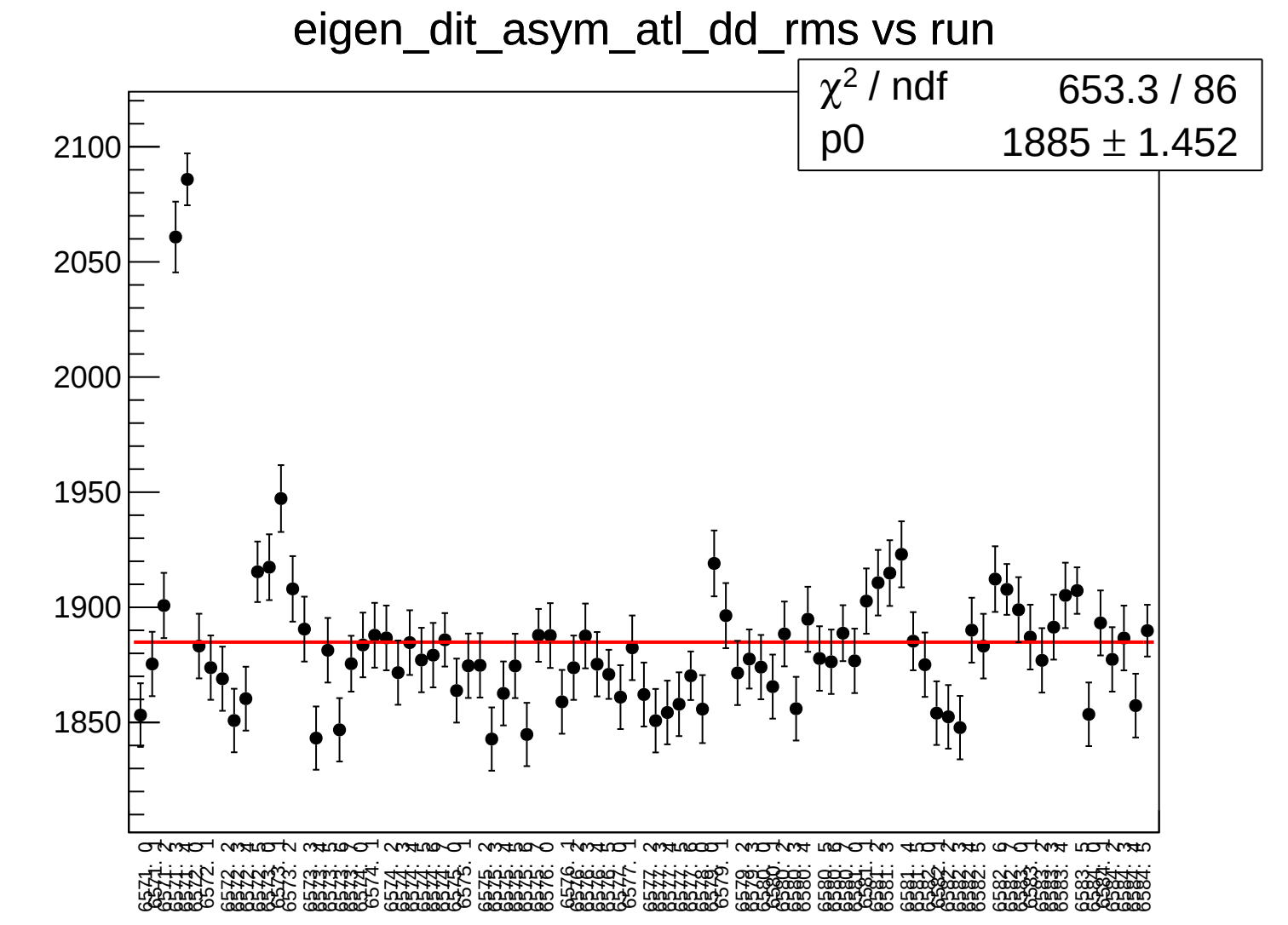

asym_atl_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 96.21 / 86
p0 −2615 ± 4524
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −912.8
Std Dev 0
2
1
0
−1
−2

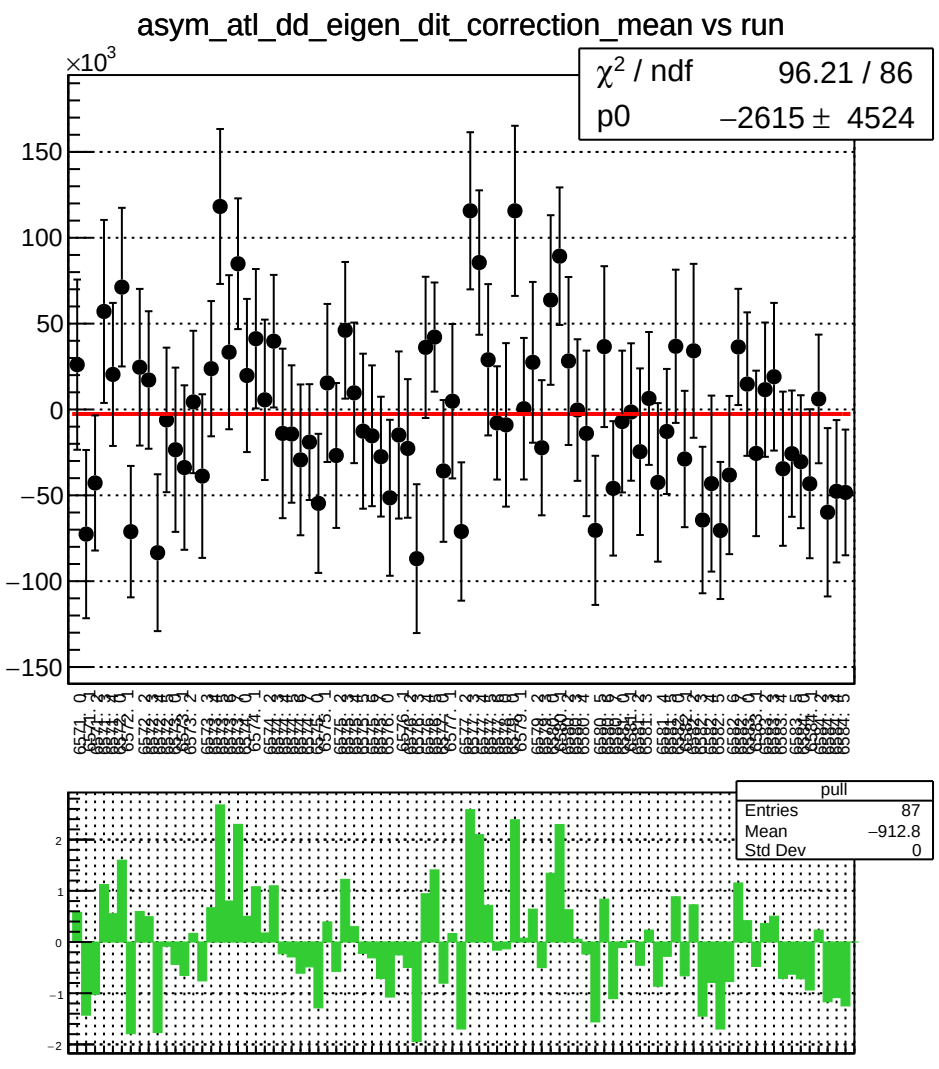

pull1D
Entries 87
Mean 0.004462
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

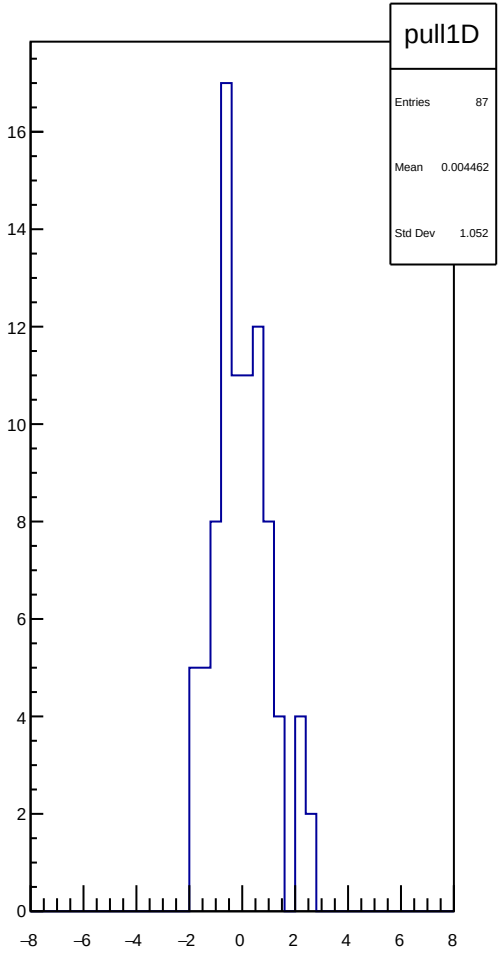

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1.275e+04 / 86
p0 4139 ± 3.199
5500
5000
4500
4000
3500

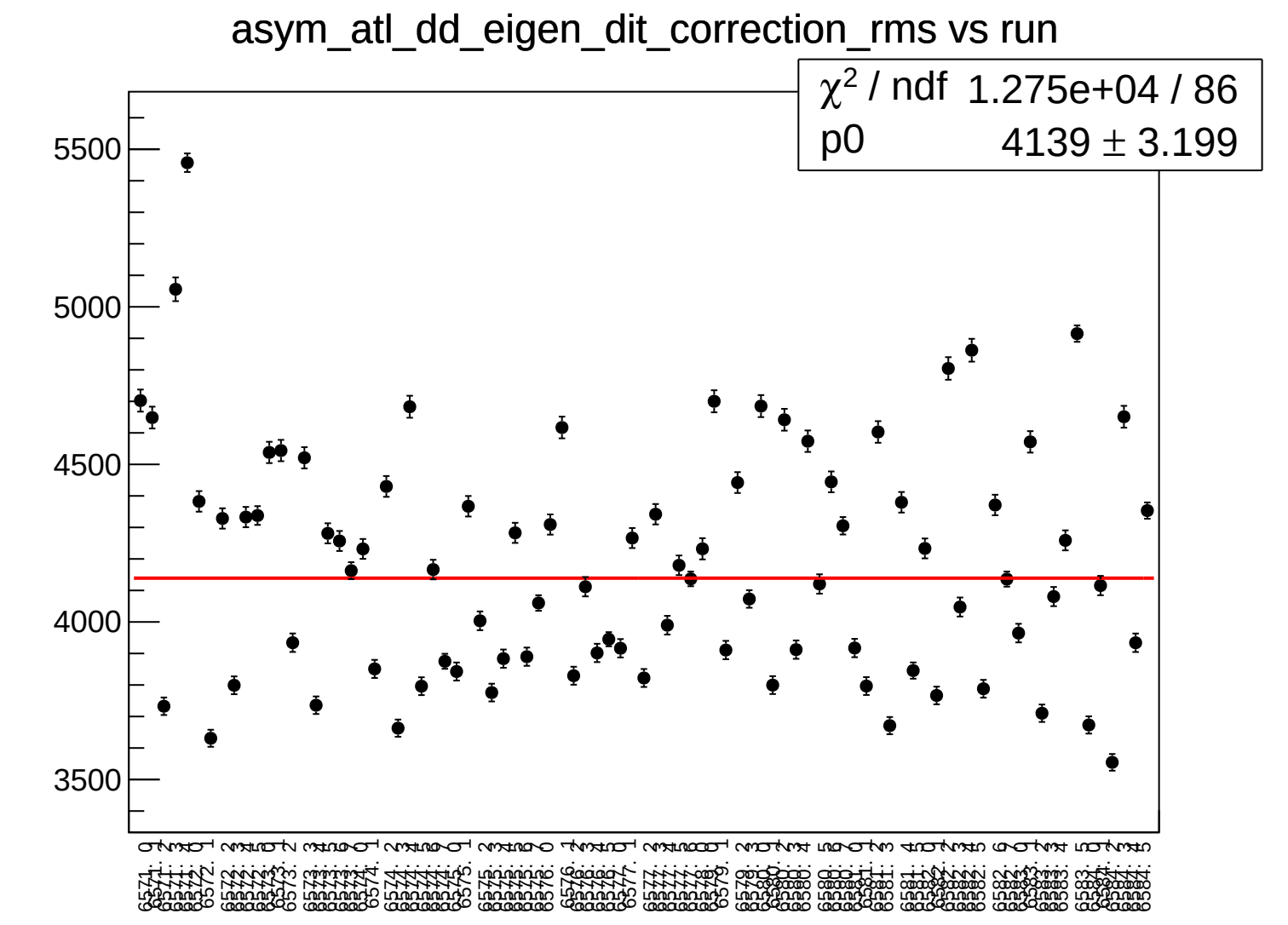

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 81.63 / 86
p0 −2167 ± 2053
pull
Entries 87
Mean 101.6
Std Dev 0

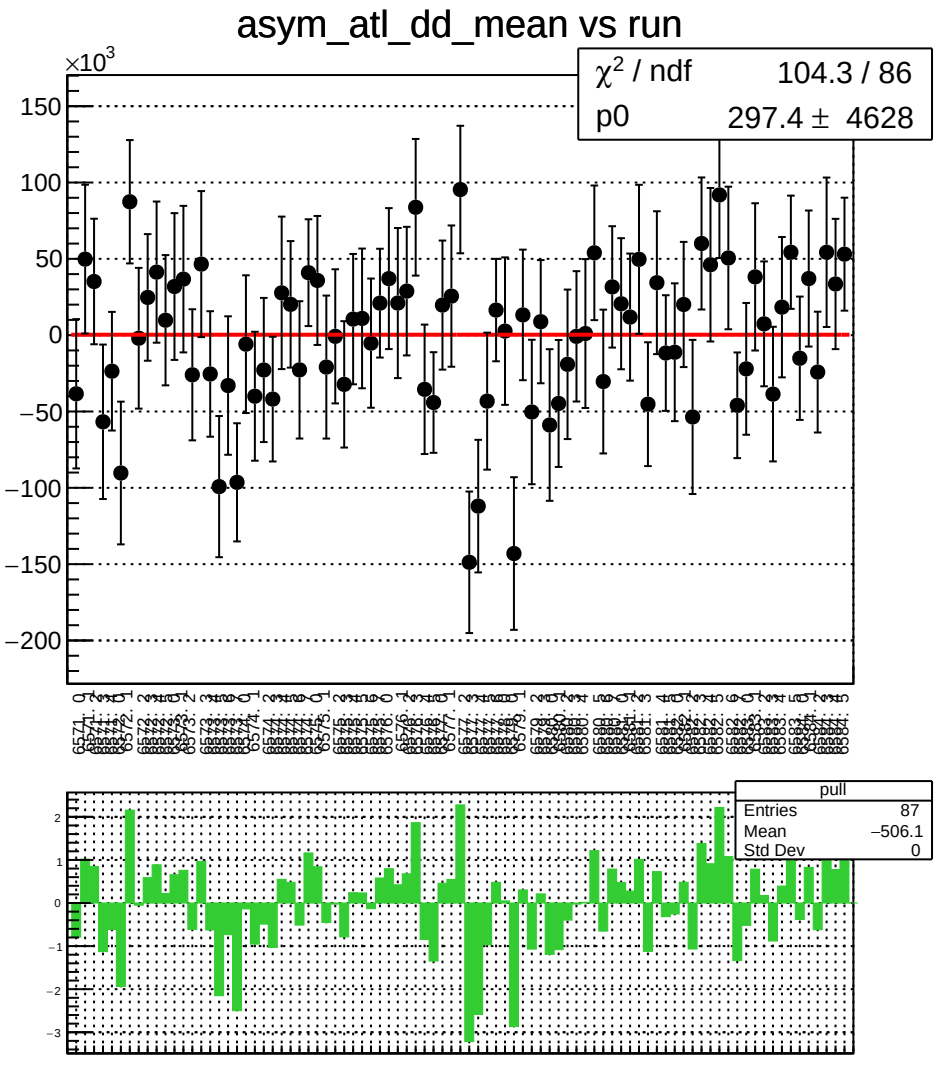

pull1D
Entries 87
Mean −0.01021
Std Dev 0.9686

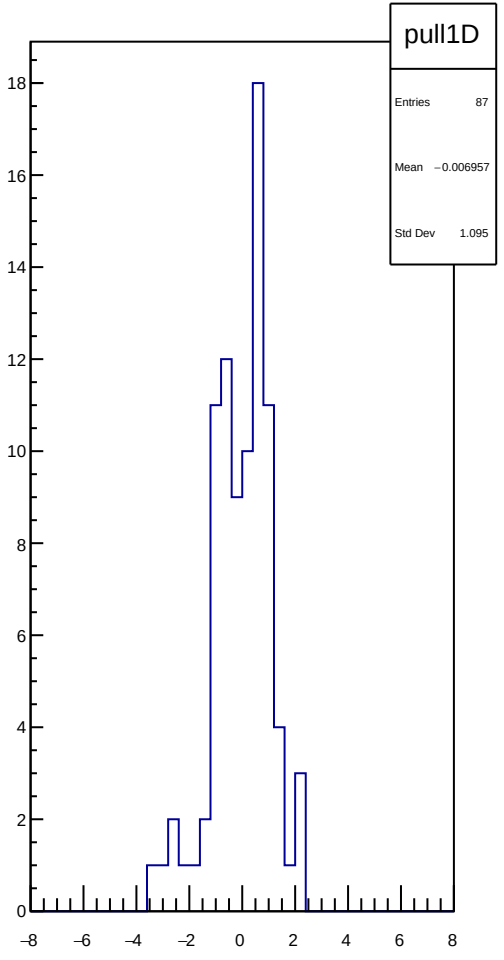

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 653.3 / 86
p0 1885 ± 1.452
2100
2050
2000
1950
1900
1850

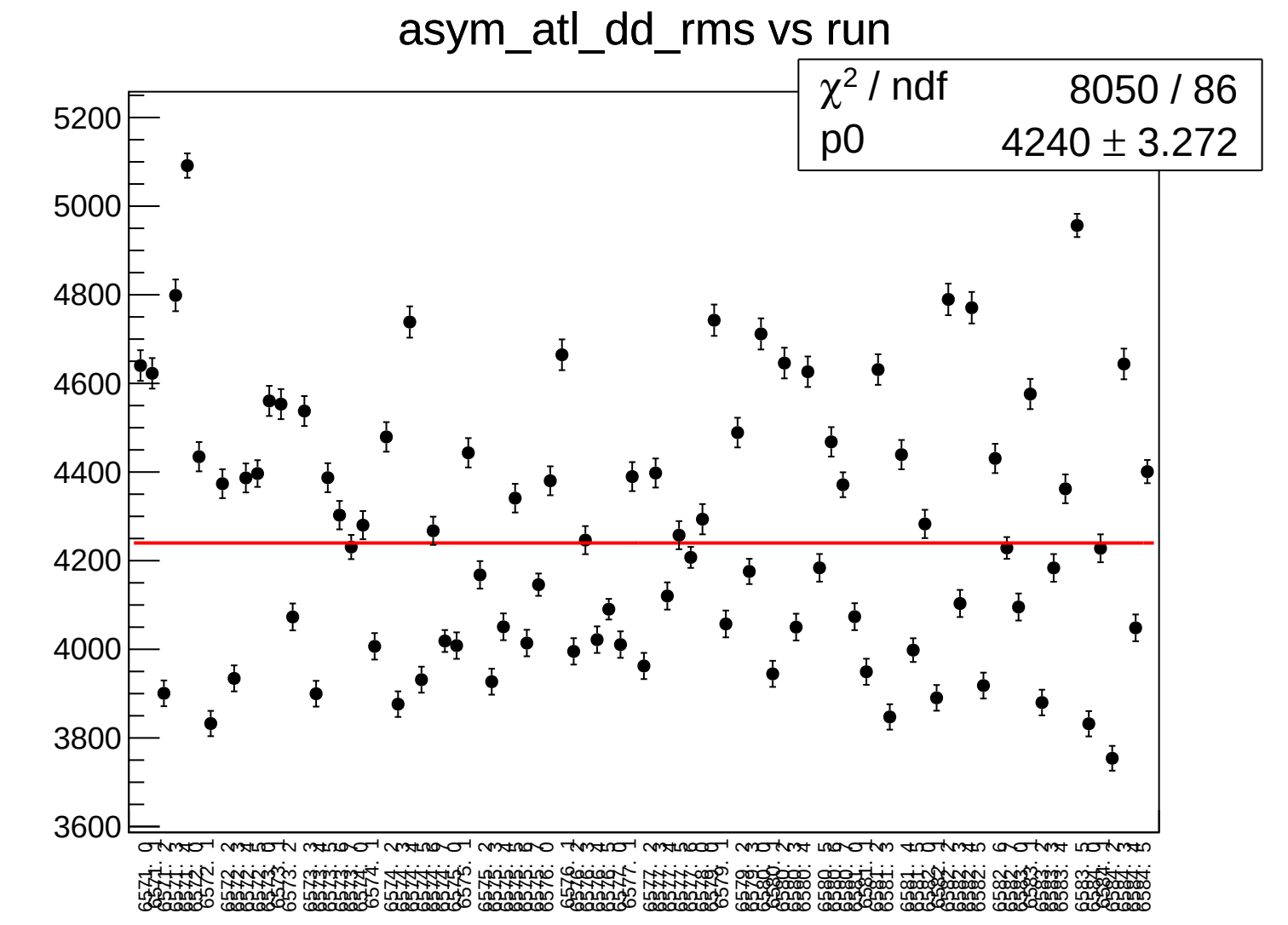

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.21 / 86
p0 −2615 ± 4524
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −912.8
Std Dev 0
2
1
0
−1
−2

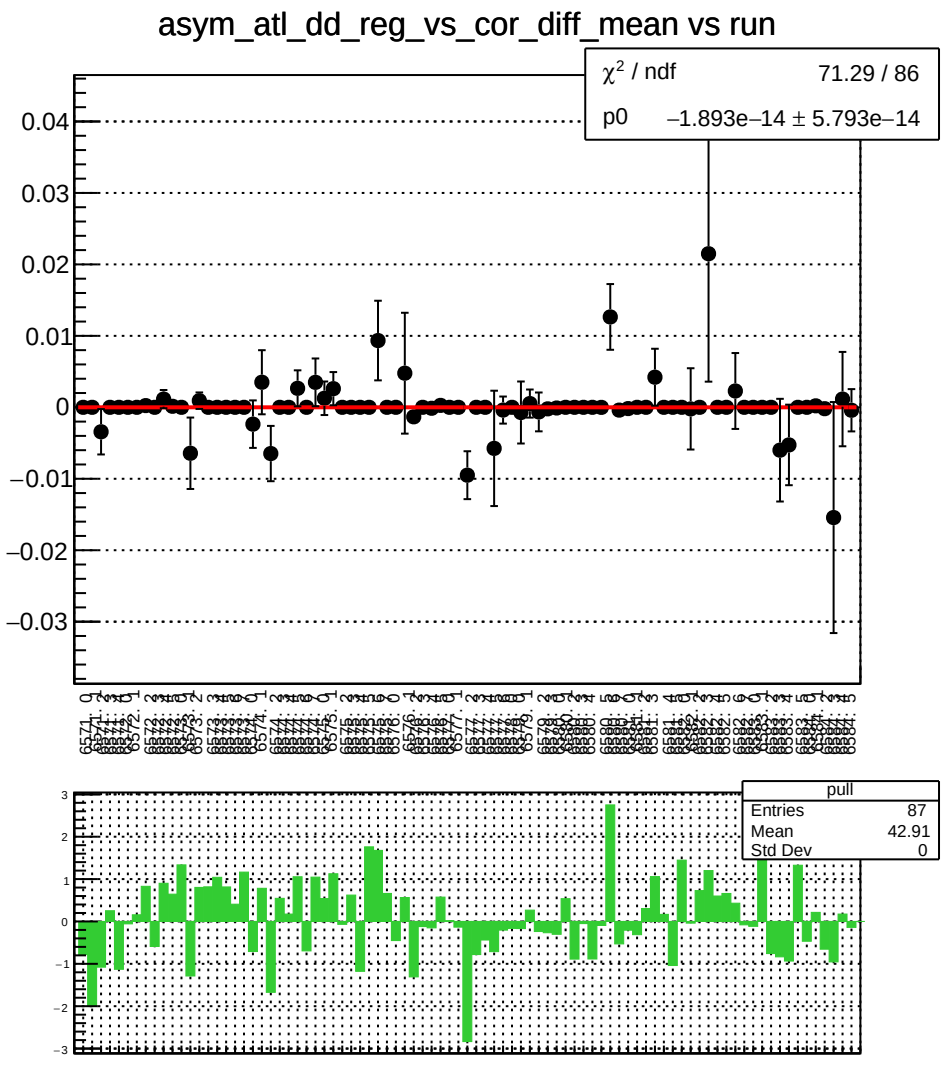

pull1D
Entries 87
Mean 0.004462
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

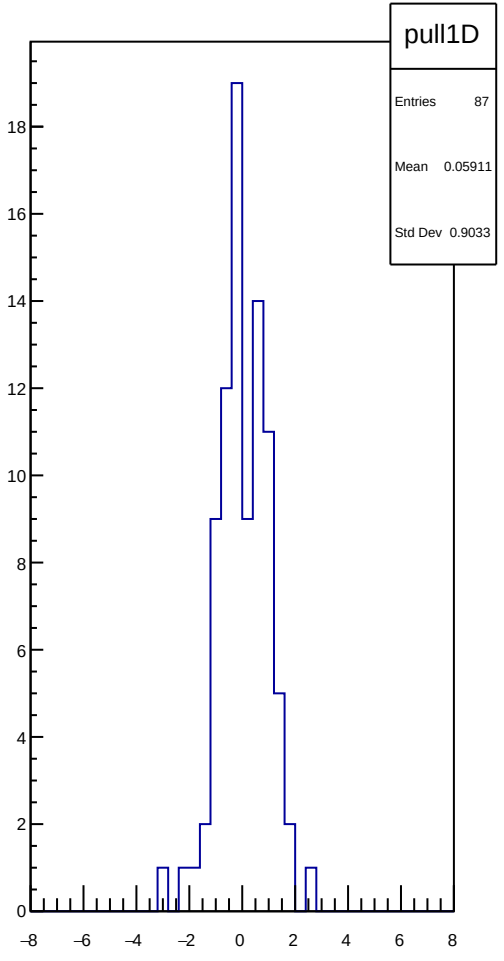

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.275e+04 / 86
p0 4139 ± 3.199
5500
5000
4500
4000
3500

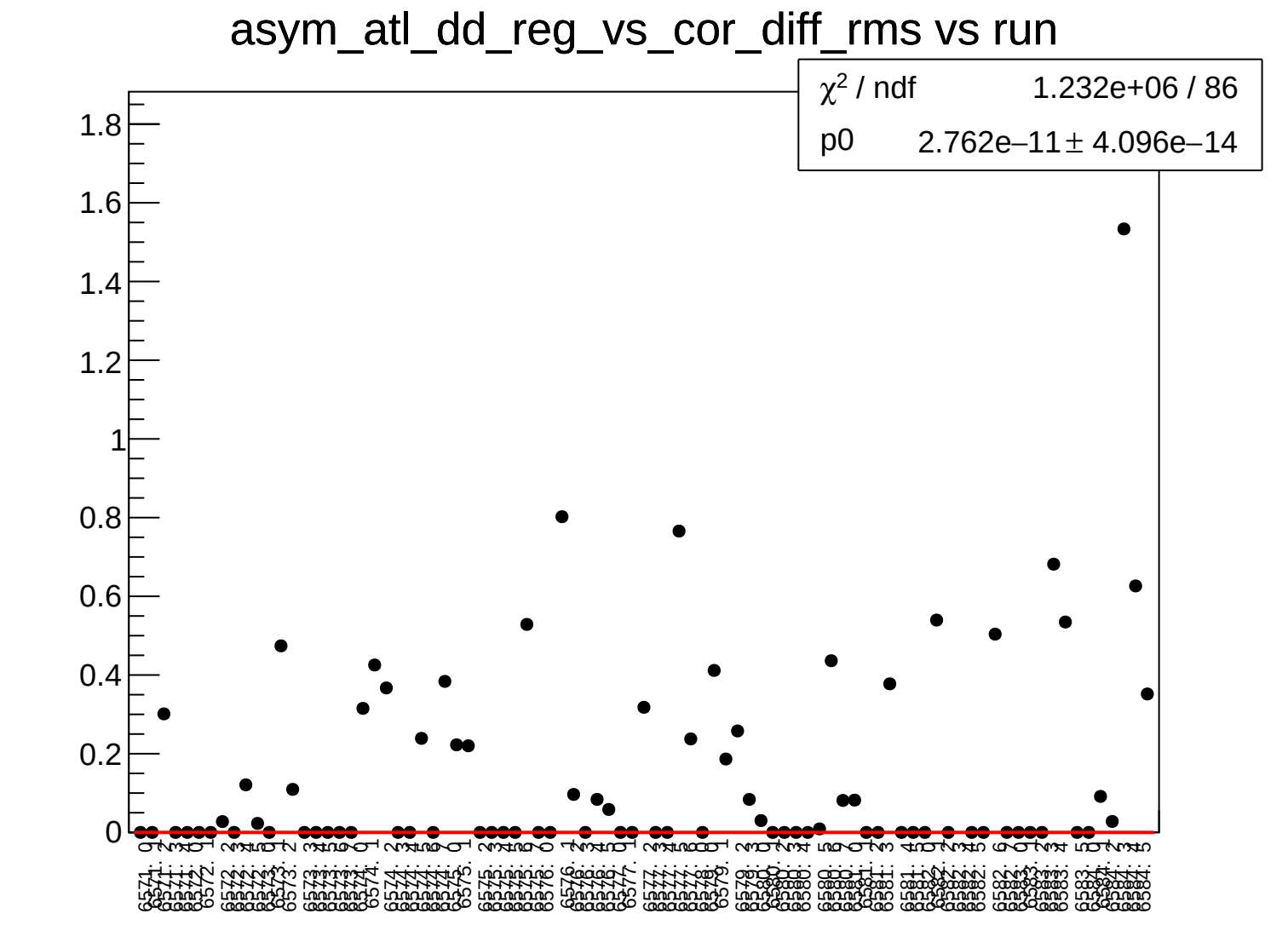

asym_atl_dd_mean vs run
χ² / ndf 104.3 / 86
p0 297.4 ± 4628
pull
Entries 87
Mean −506.1
Std Dev 0

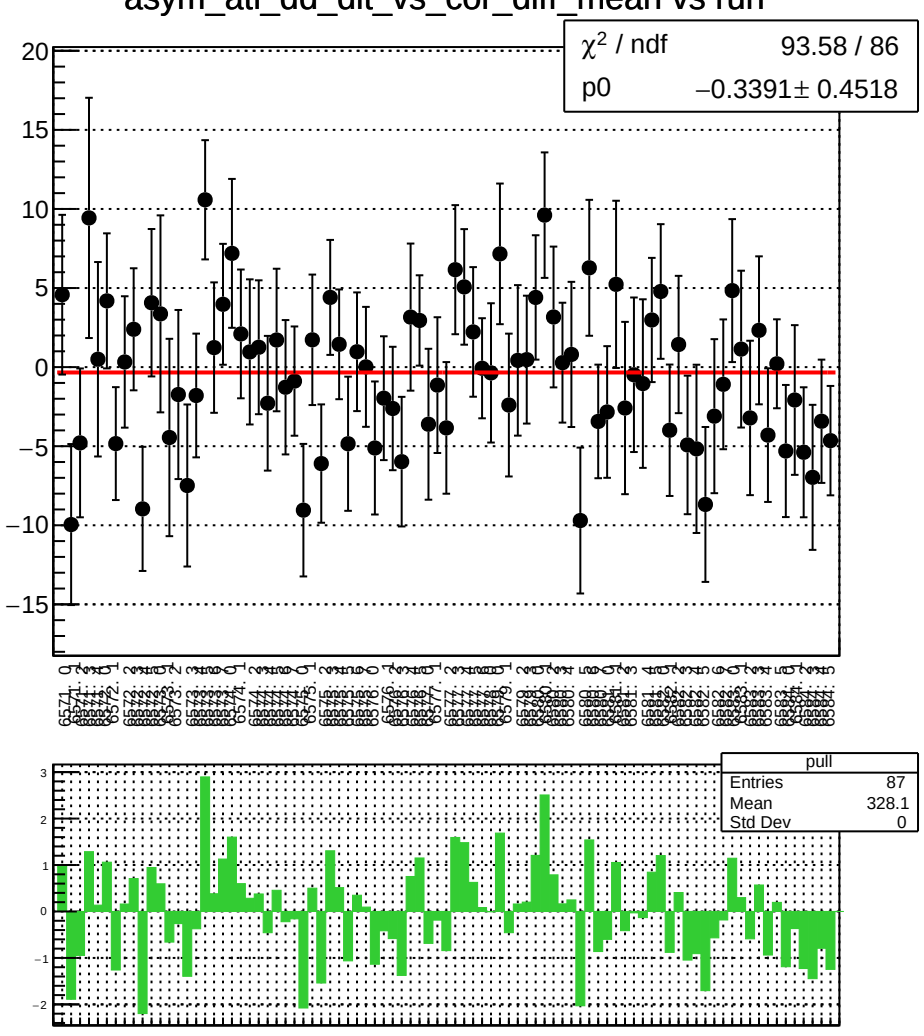

pull1D
Entries 87
Mean −0.006957
Std Dev 1.095

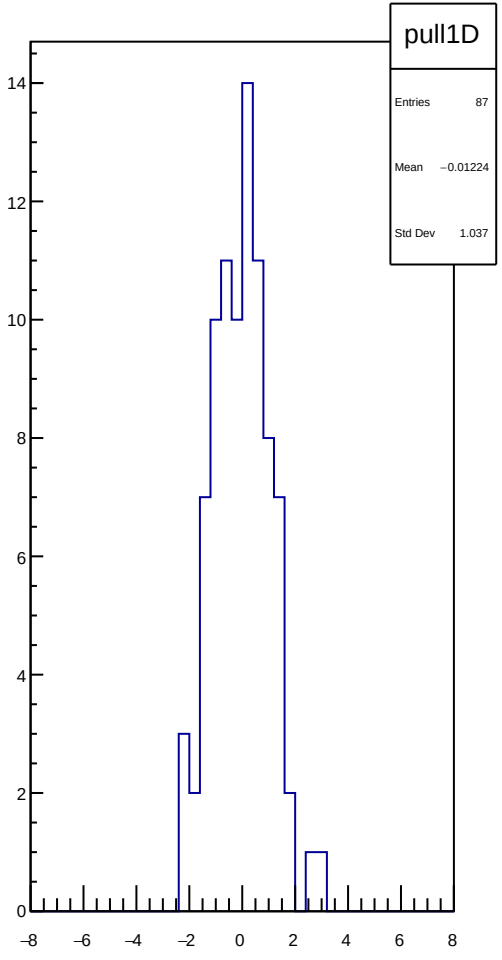

asym_atl_dd_rms vs run
χ² / ndf 8050 / 86
p0 4240 ± 3.272
5200
5000
4800
4600
4400
4200
4000
3800
3600

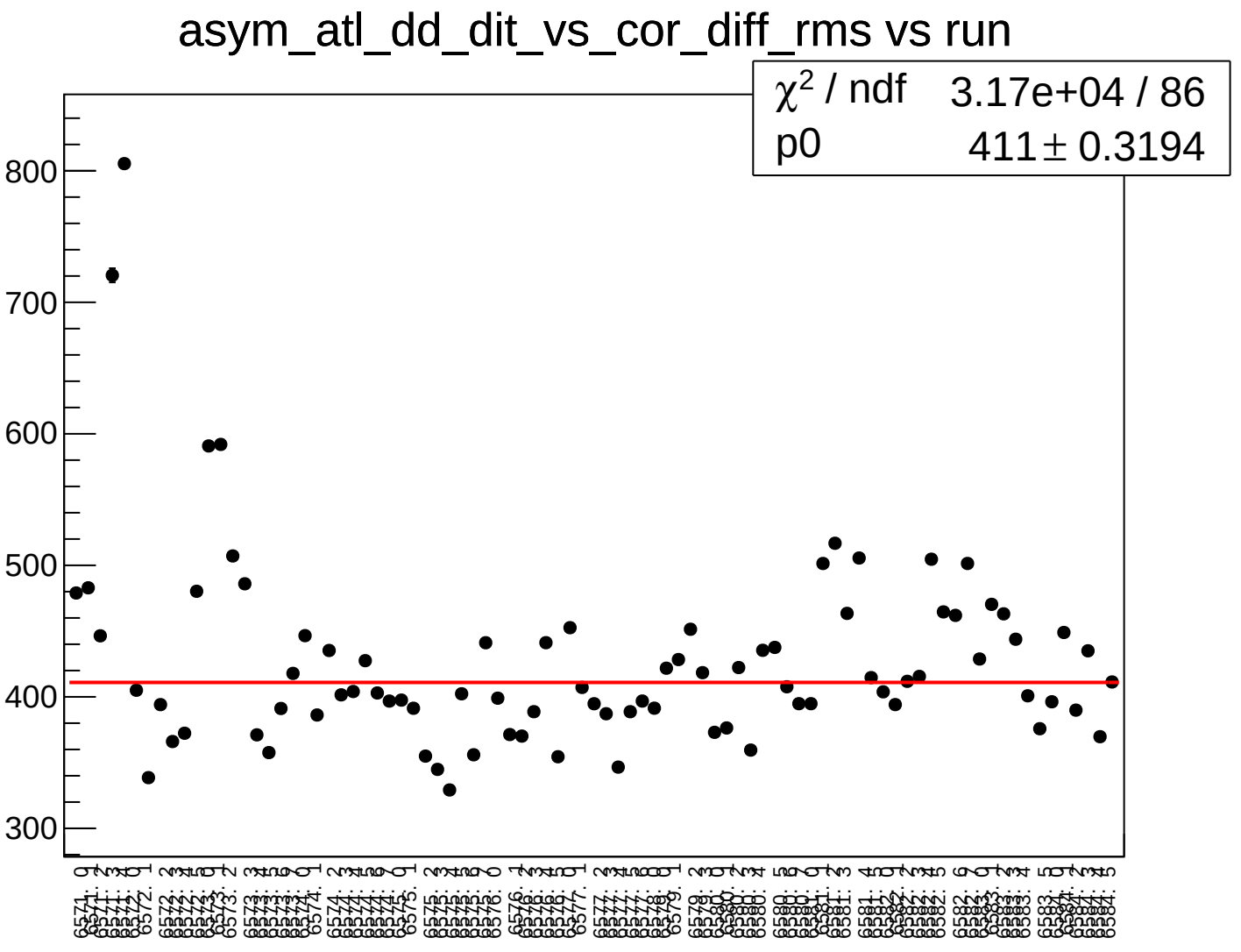

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.29 / 86
p0 −1.893e−14 ± 5.793e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 42.91
Std Dev 0

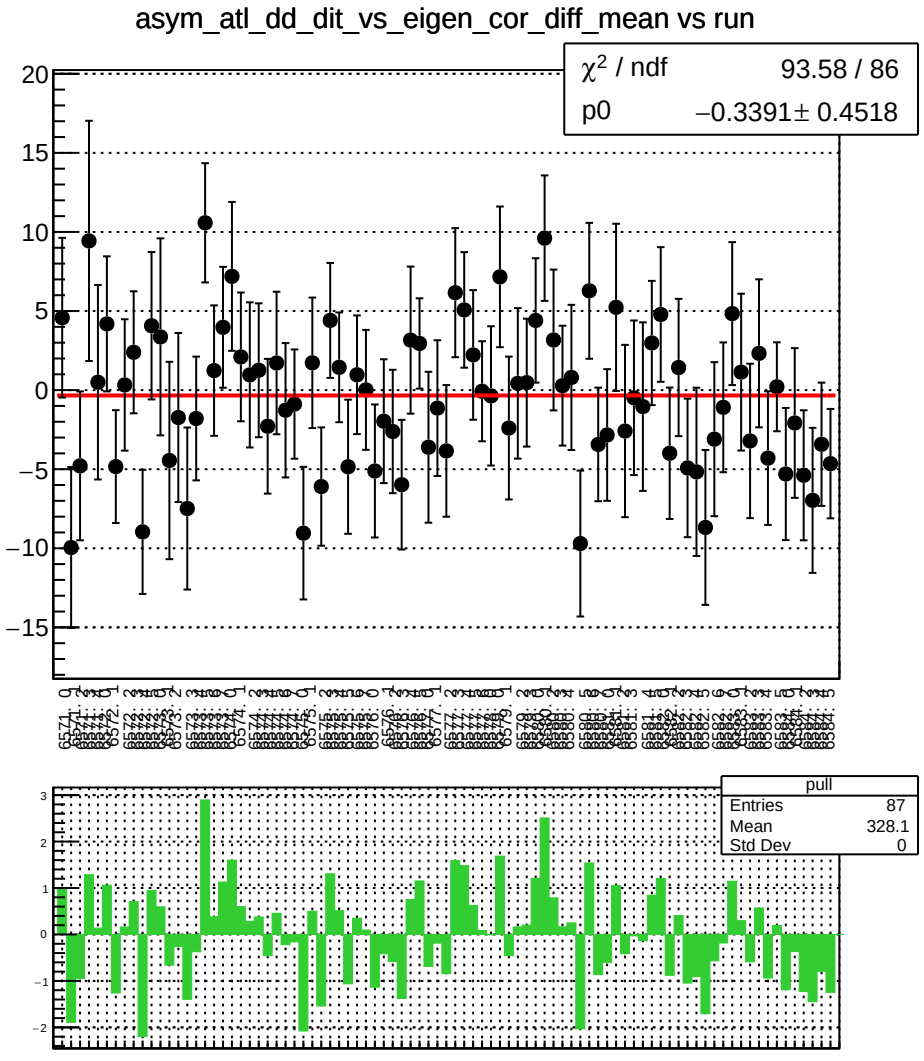

pull1D
Entries 87
Mean 0.05911
Std Dev 0.9033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

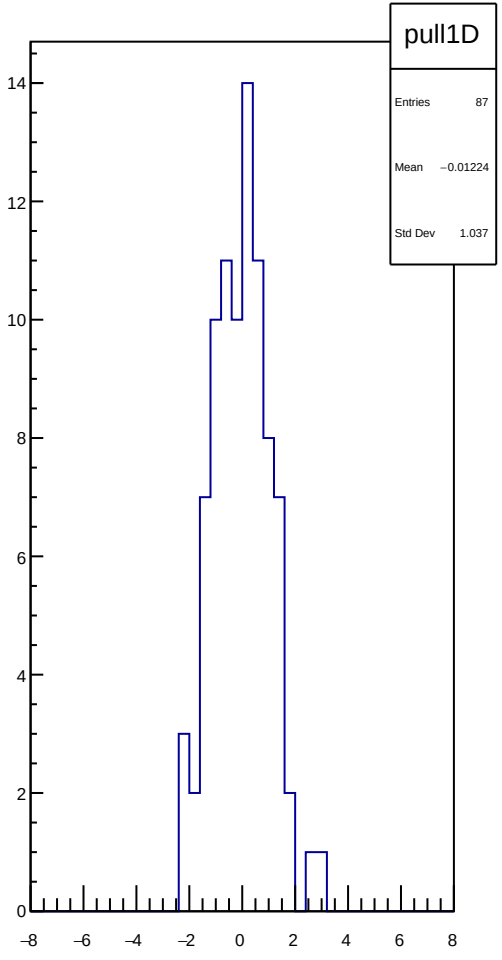

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.232e+06 / 86
p0 2.762e−11 ± 4.096e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

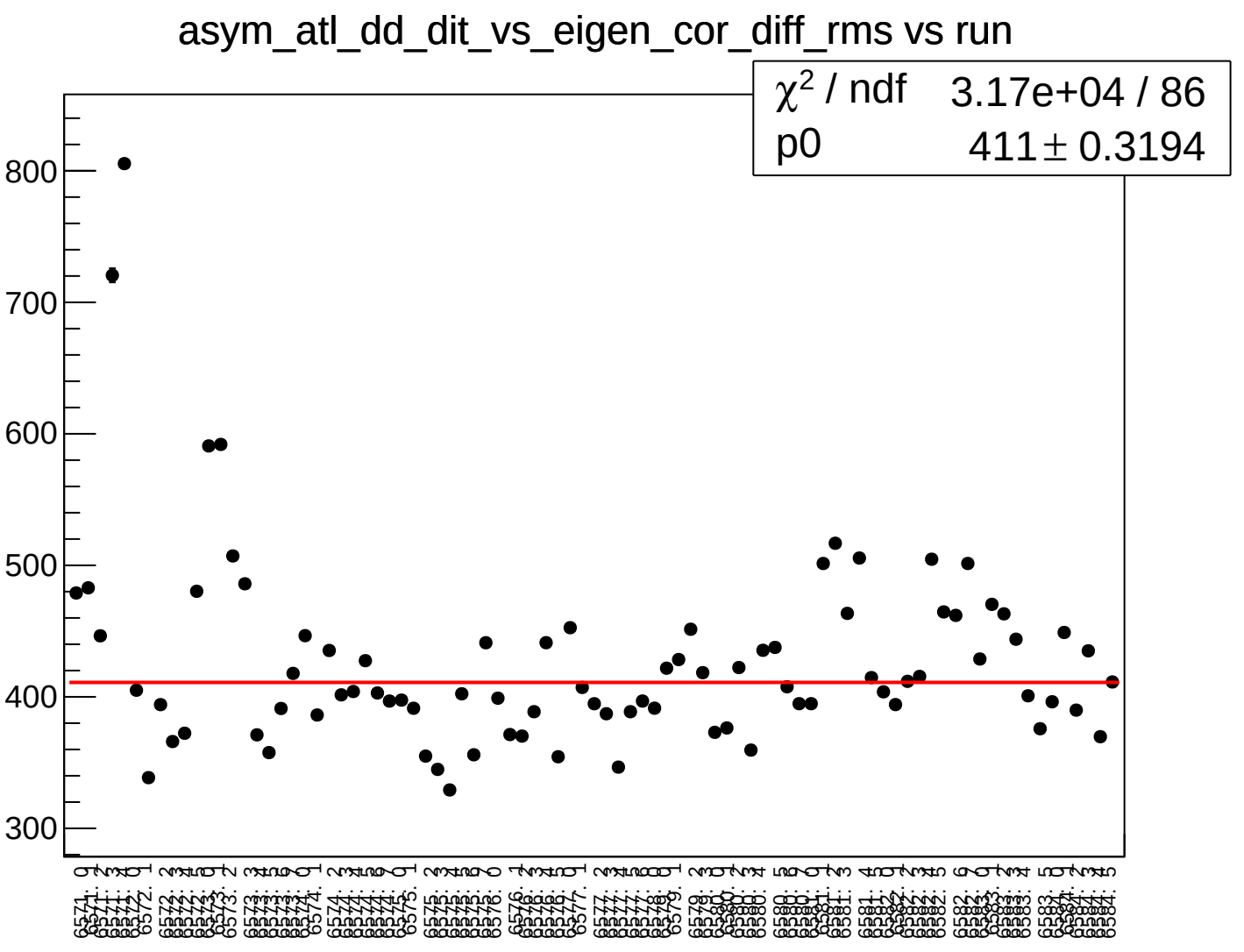

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.58 / 86
p0 −0.3391± 0.4518
pull
Entries 87
Mean 328.1
Std Dev 0

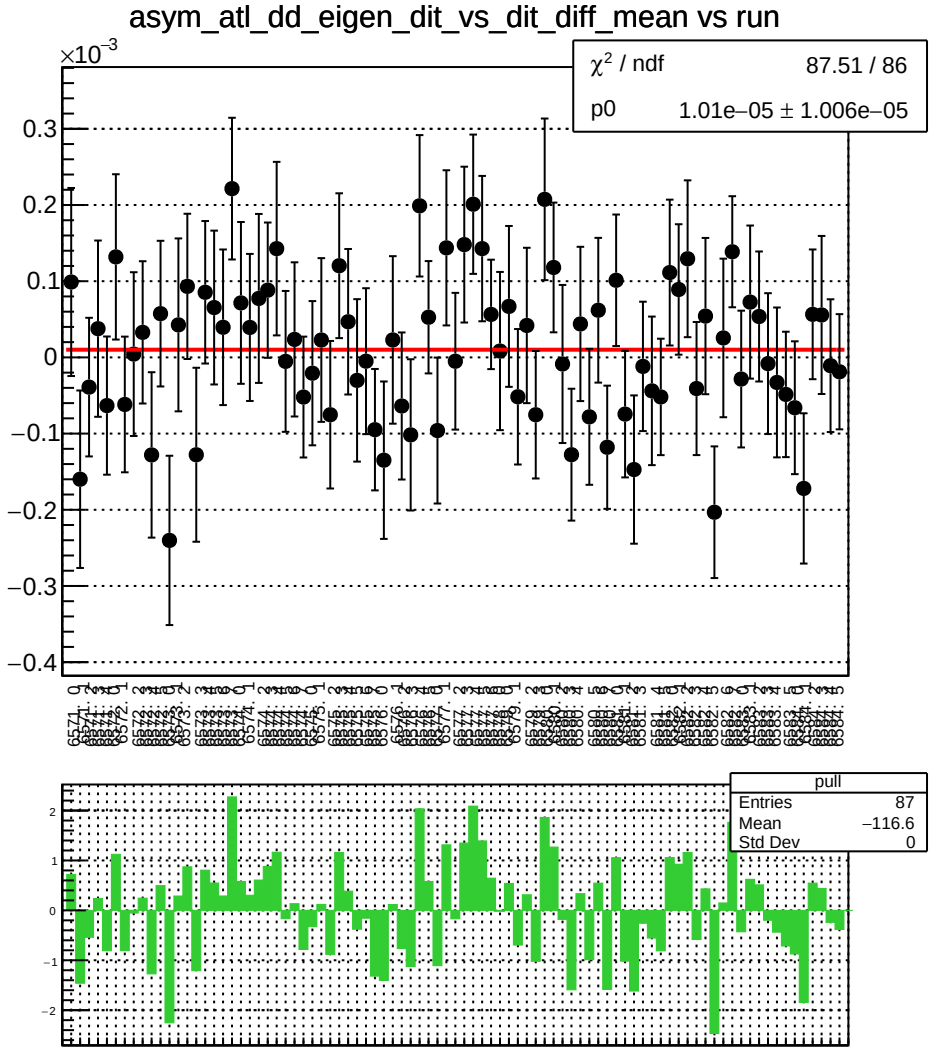

pull1D
Entries 87
Mean −0.01224
Std Dev 1.037

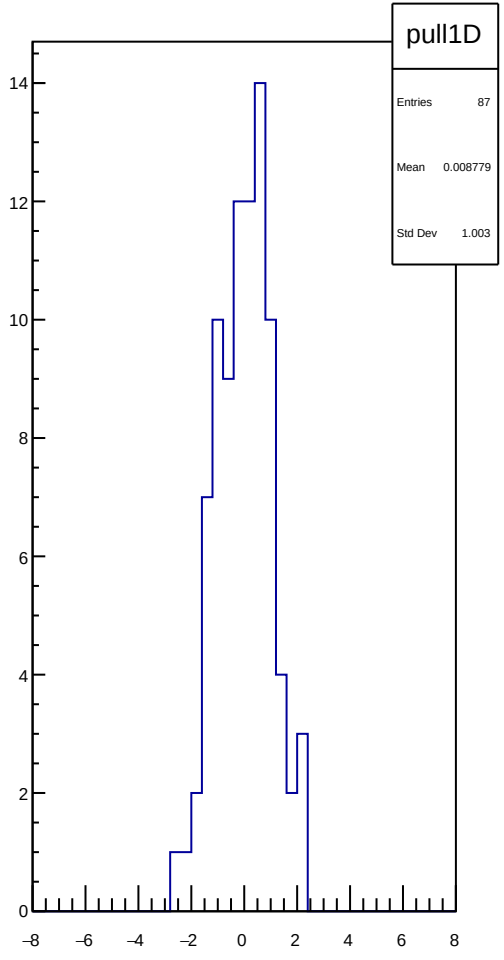

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.17e+04 / 86
p0 411 ± 0.3194
800
700
600
500
400
300

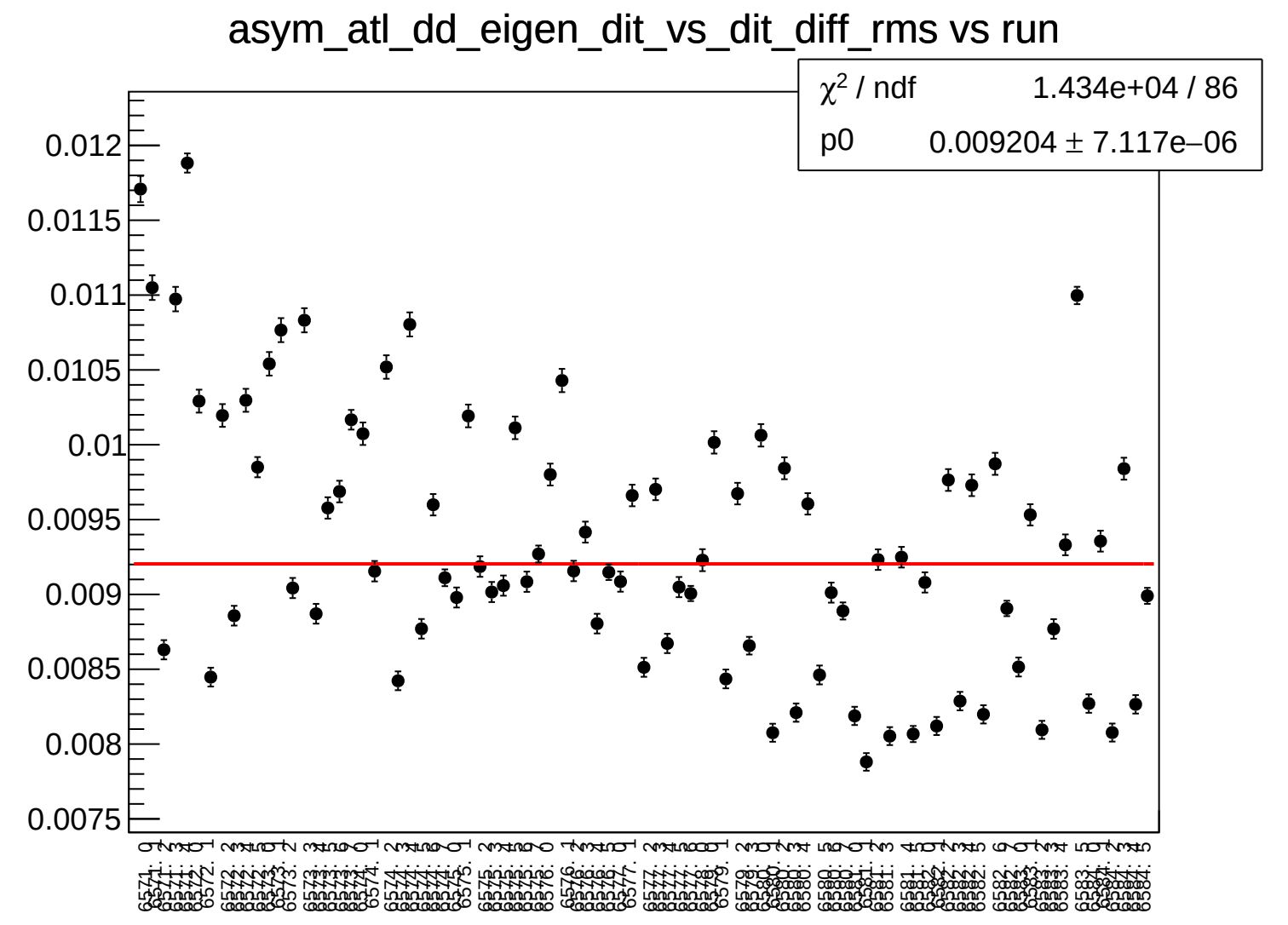

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.58 / 86
p0 −0.3391± 0.4518
pull
Entries 87
Mean 328.1
Std Dev 0

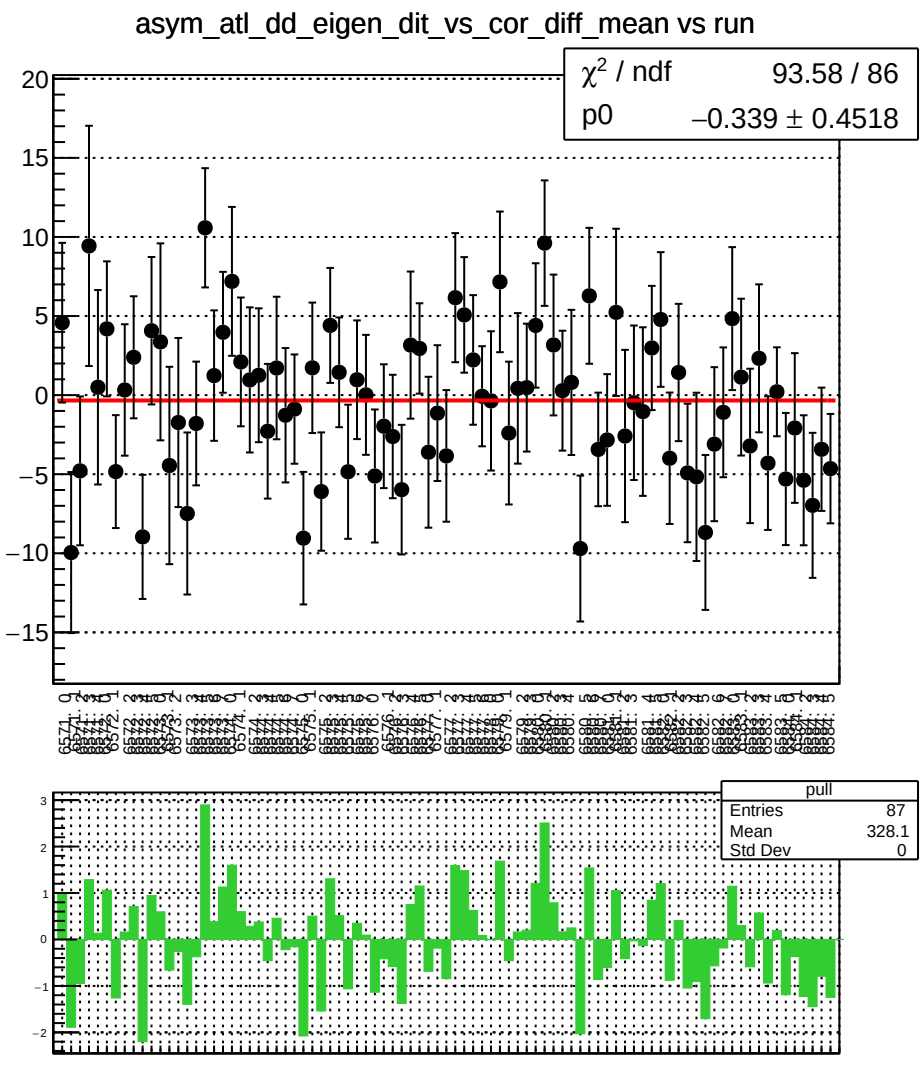

pull1D
Entries 87
Mean −0.01224
Std Dev 1.037

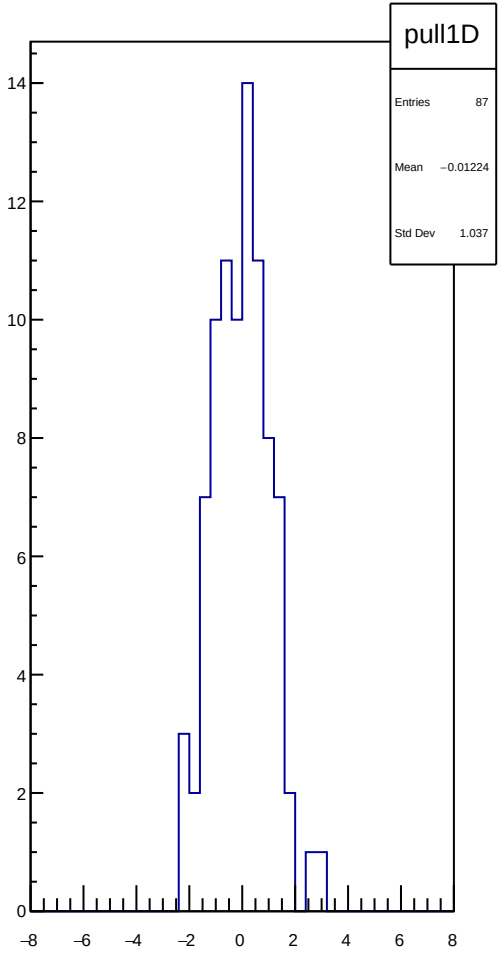

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.17e+04 / 86
p0 411 ± 0.3194
800
700
600
500
400
300

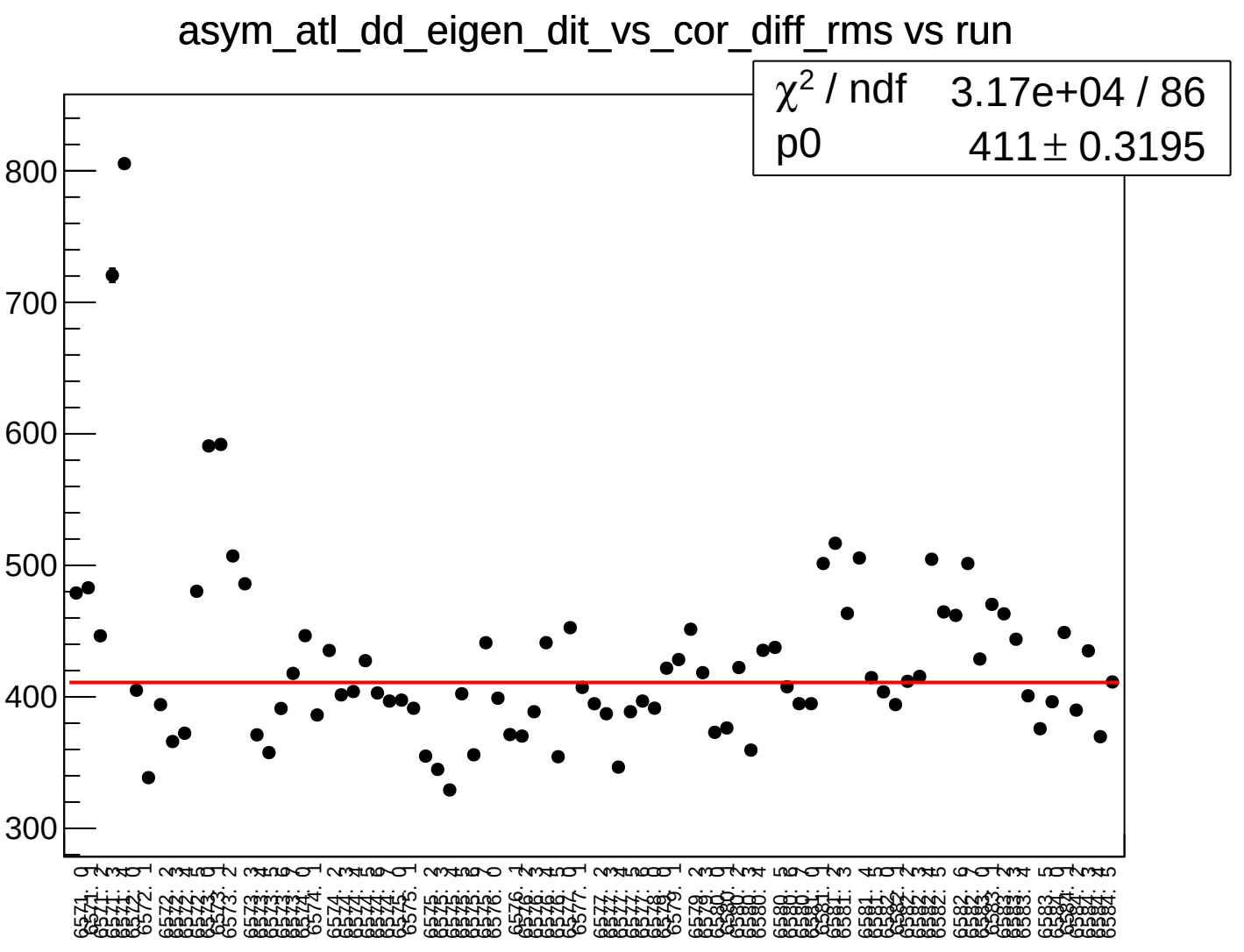

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 87.51 / 86
p0 1.01e−05 ± 1.006e−05
pull
Entries 87
Mean −116.6
Std Dev 0

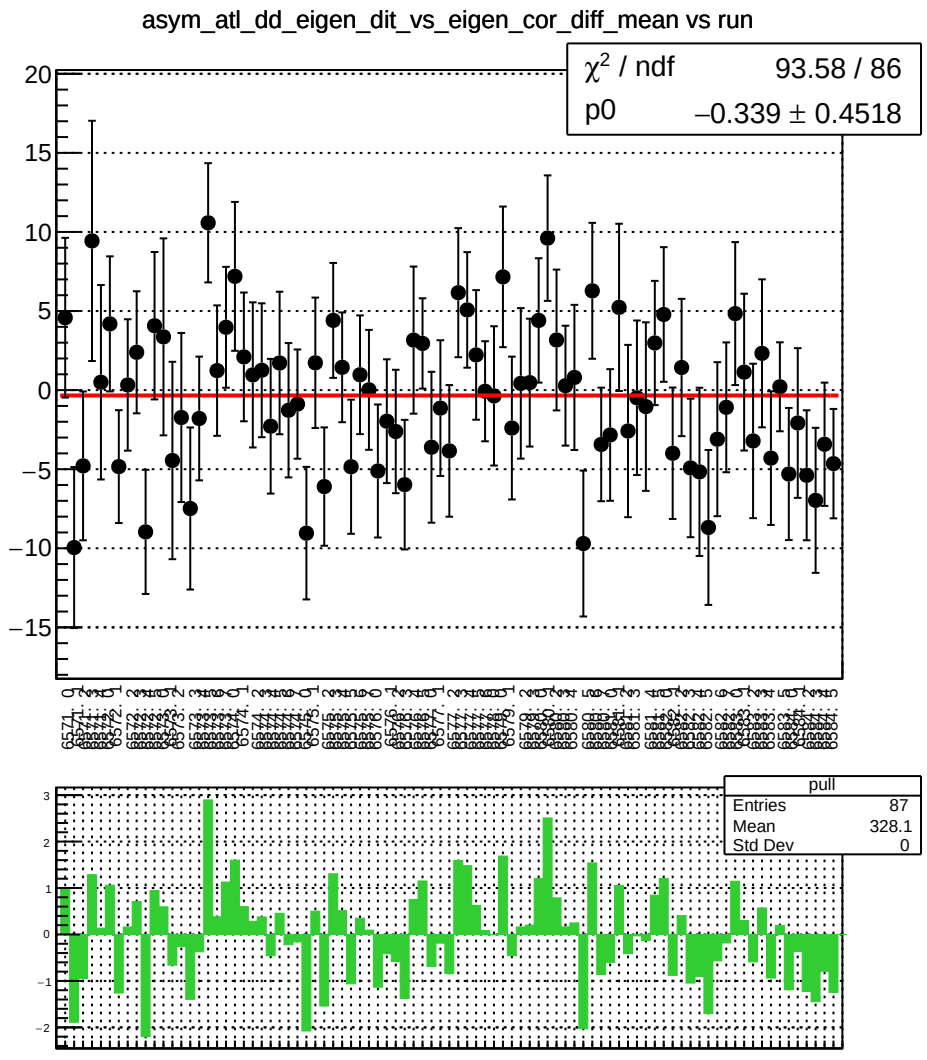

pull1D
Entries 87
Mean 0.008779
Std Dev 1.003

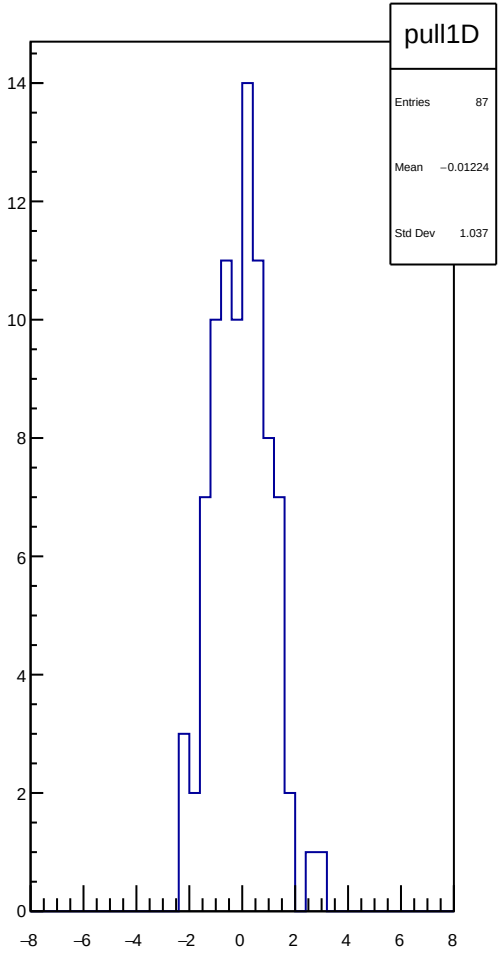

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.434e+04 / 86
p0 0.009204 ± 7.117e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

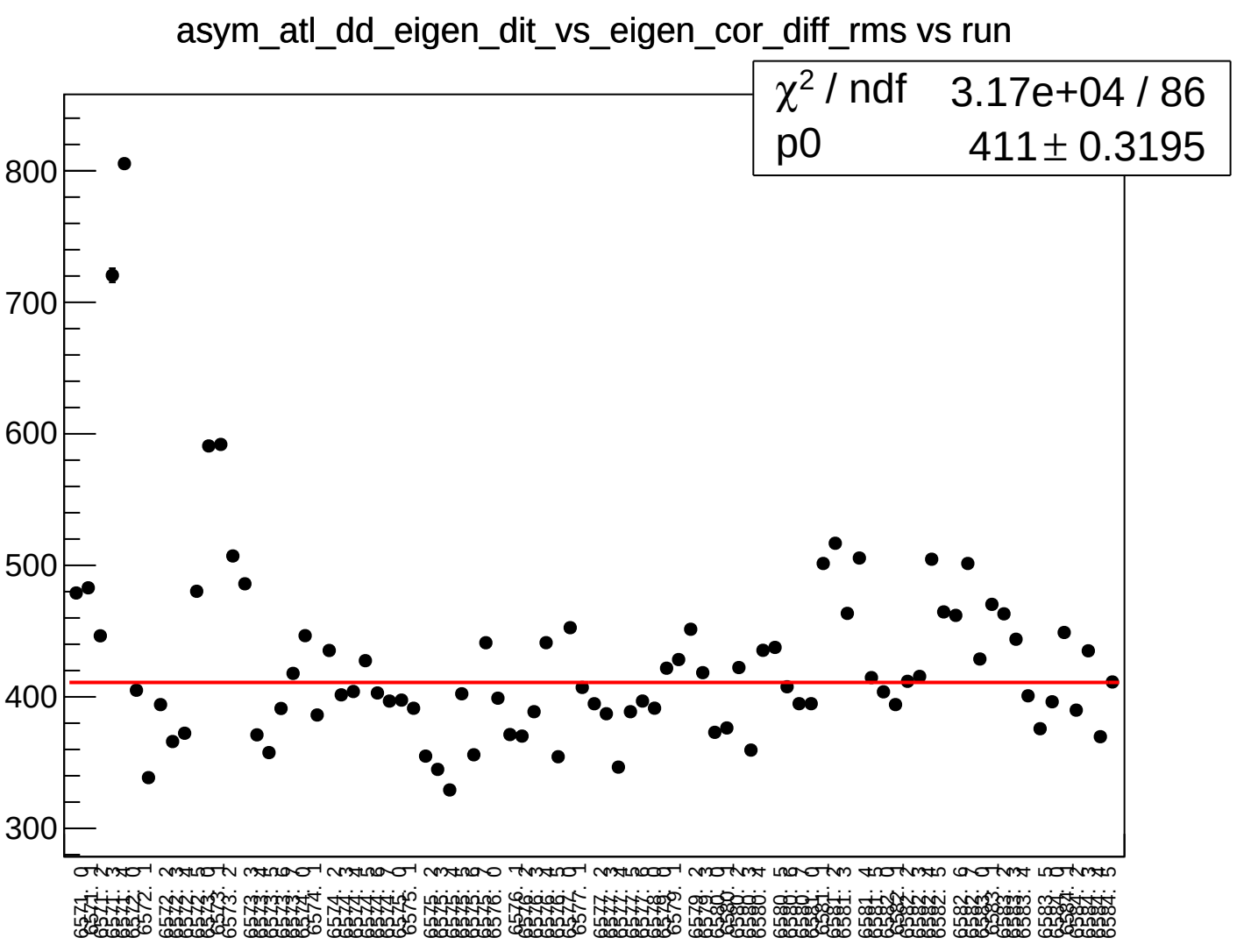

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.58 / 86
p0 −0.339 ± 0.4518
pull
Entries 87
Mean 328.1
Std Dev 0

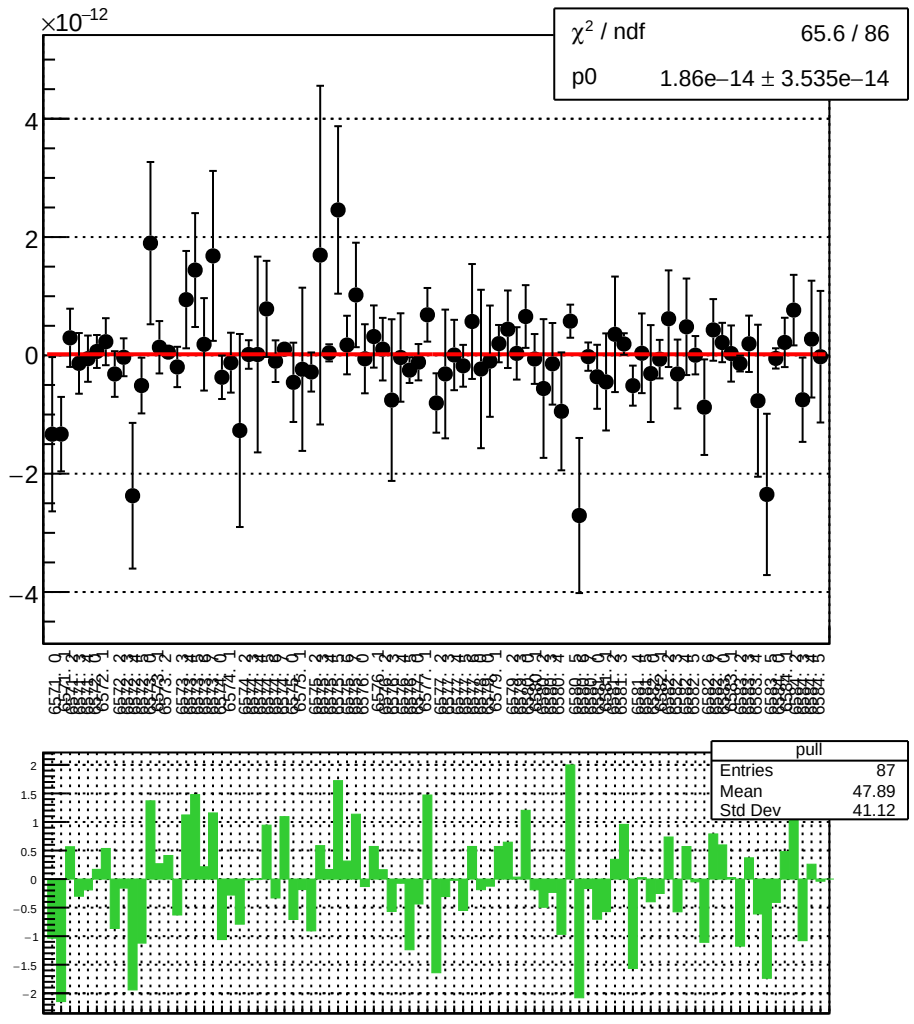

pull1D
Entries 87
Mean −0.01224
Std Dev 1.037

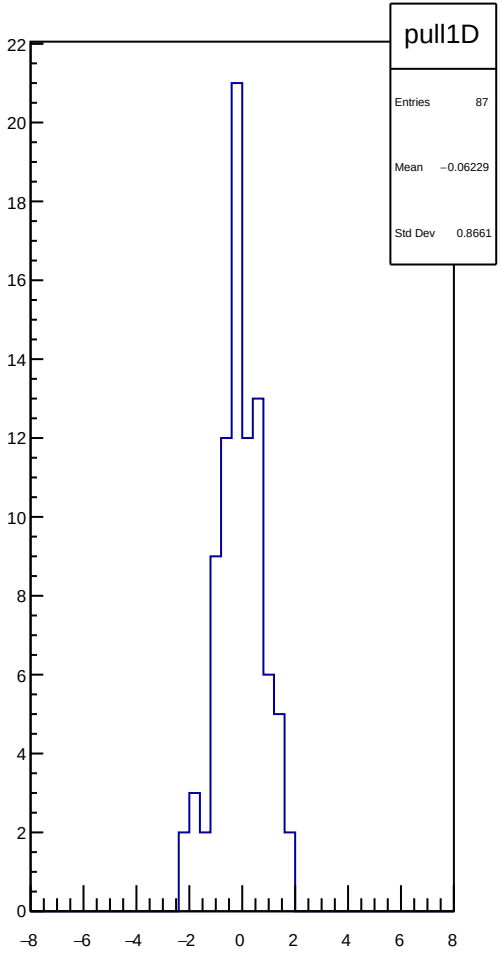

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.17e+04 / 86
p0 411 ± 0.3195
800
700
600
500
400
300

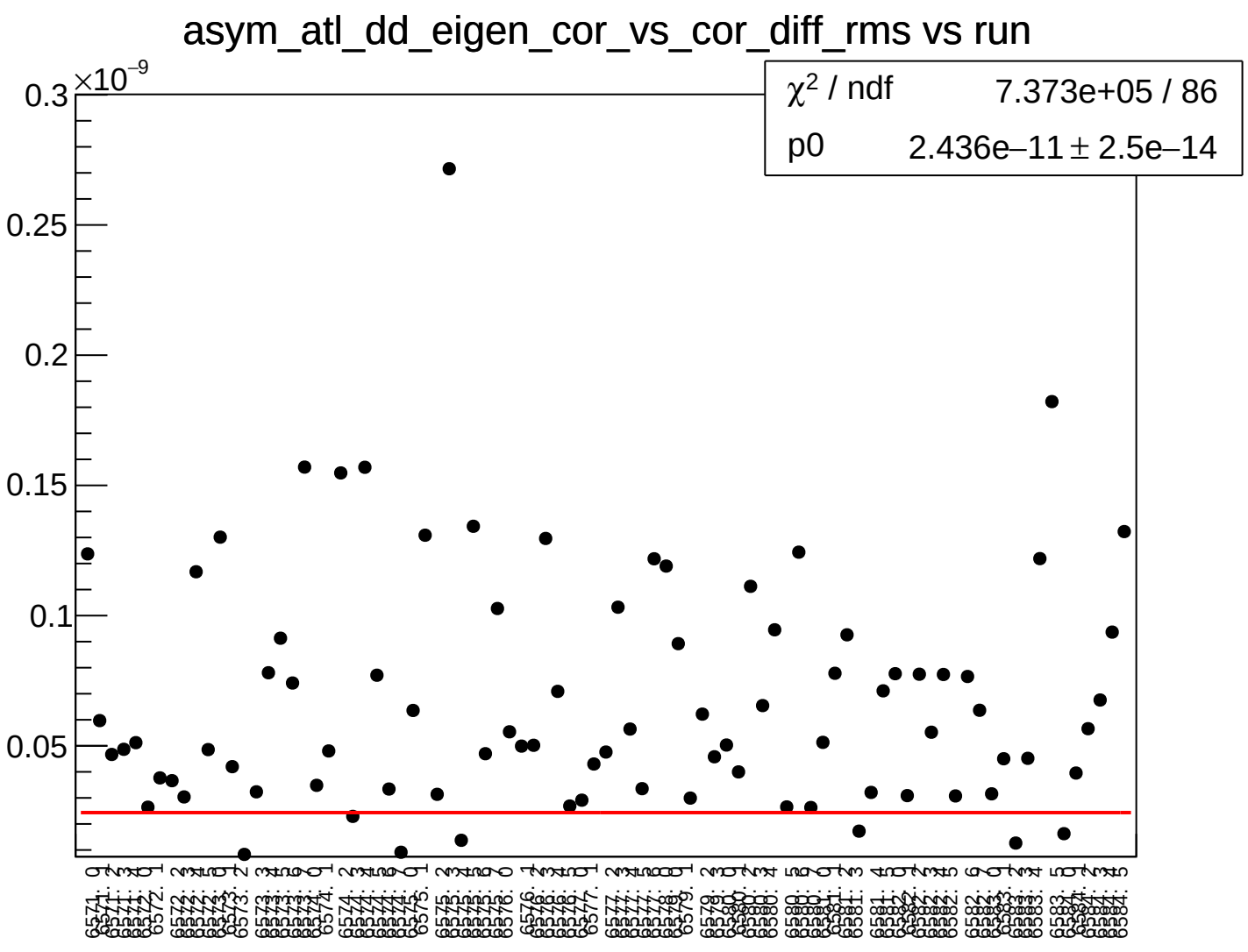

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.58 / 86
p0 −0.339 ± 0.4518
pull
Entries 87
Mean 328.1
Std Dev 0

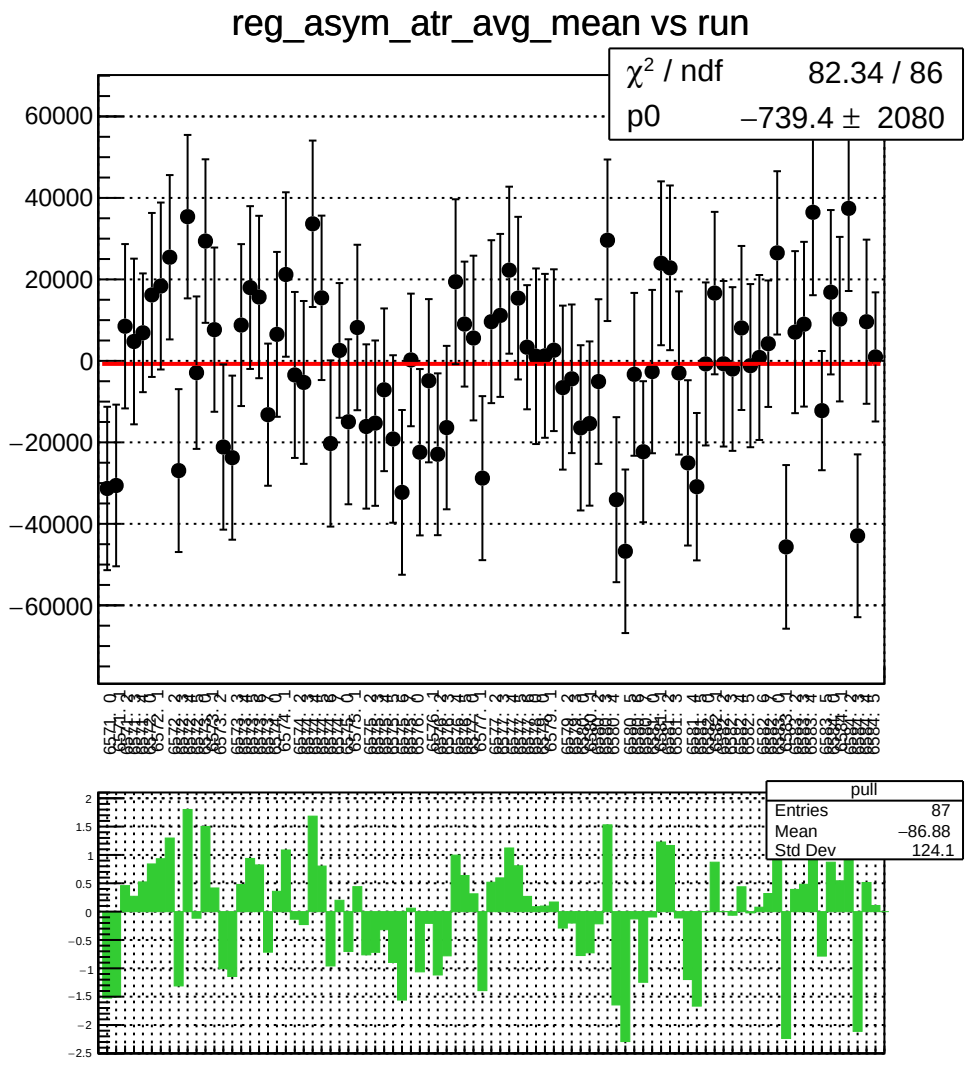

pull1D
Entries 87
Mean −0.01224
Std Dev 1.037

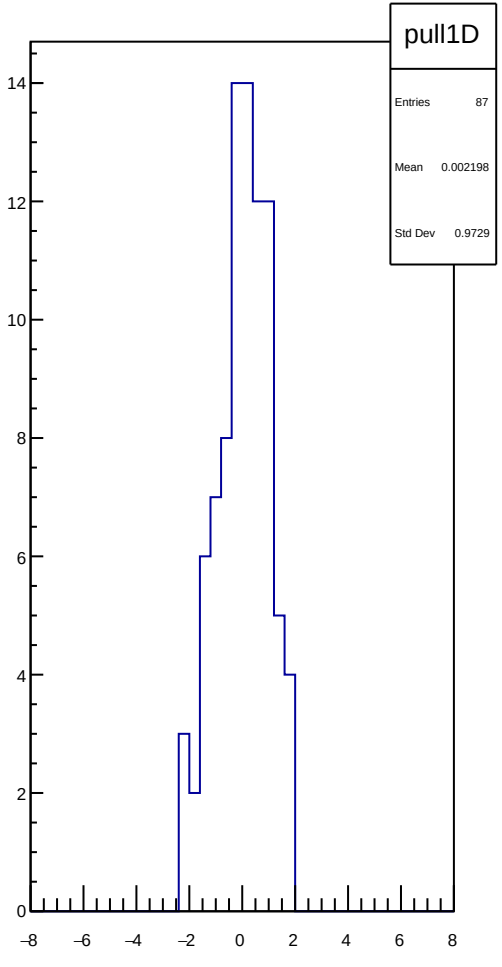

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.17e+04 / 86
p0 411 ± 0.3195
800
700
600
500
400
300

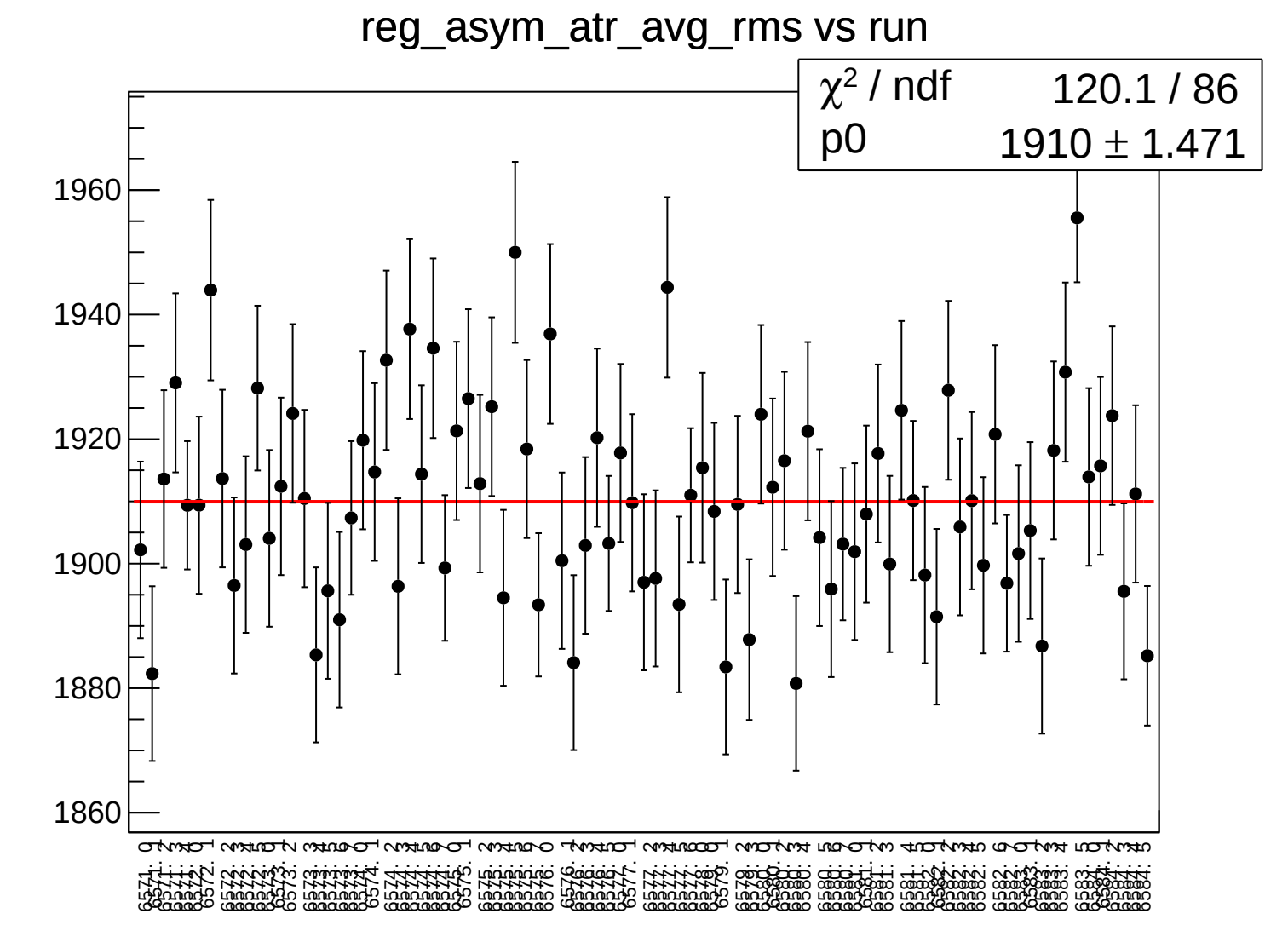

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.6 / 86
p0 1.86e−14 ± 3.535e−14
pull
Entries 87
Mean 47.89
Std Dev 41.12

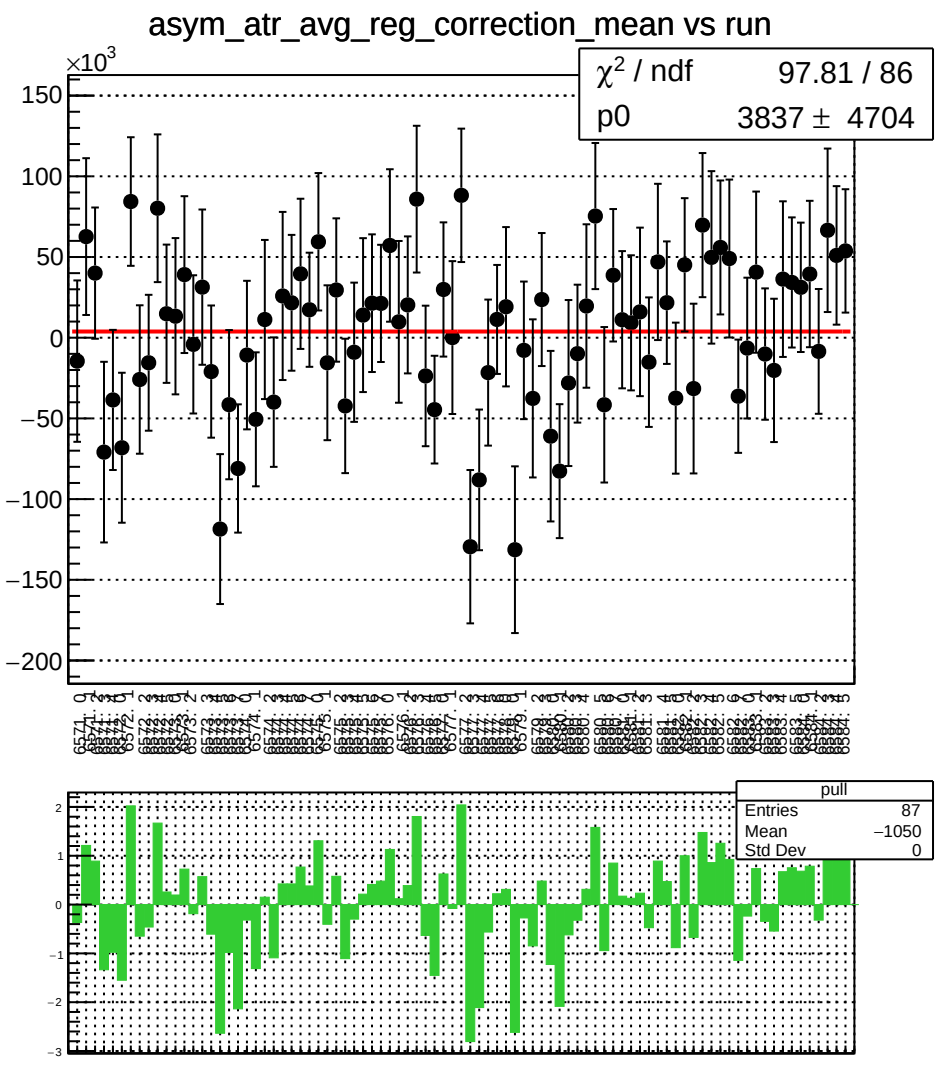

pull1D
Entries 87
Mean −0.06229
Std Dev 0.8661

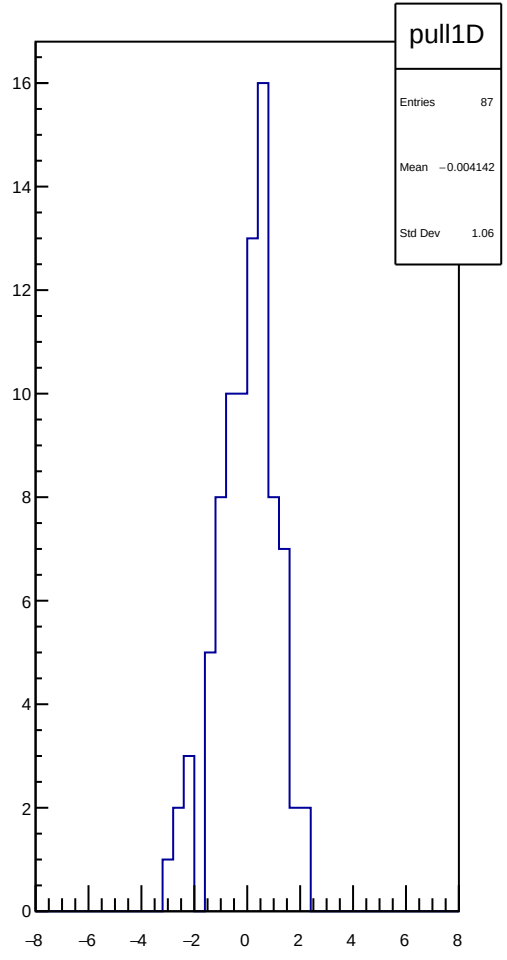

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 7.373e+05 / 86
p0 2.436e−11 ± 2.5e−14

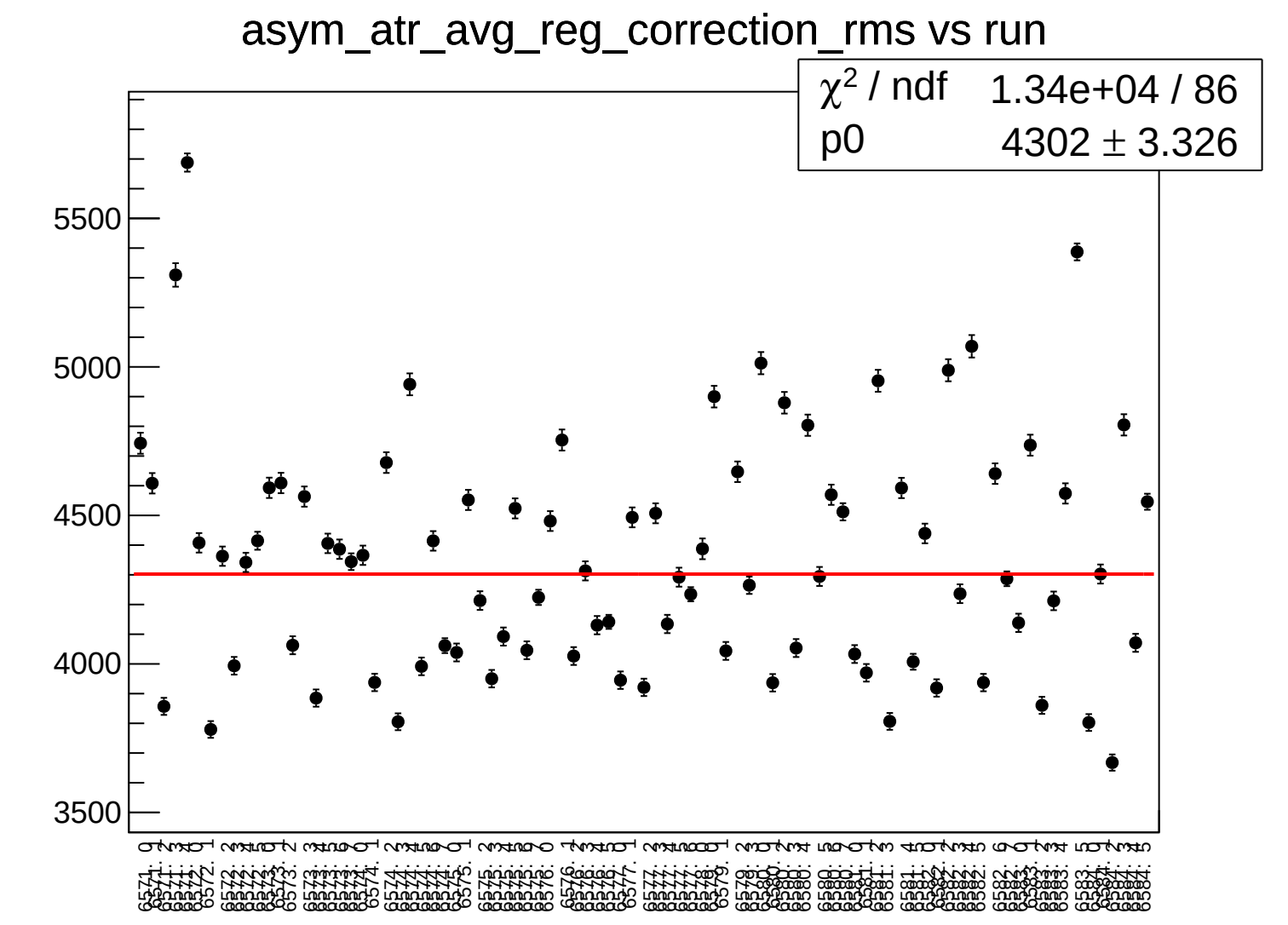

reg_asym_atr_avg_mean vs run
χ² / ndf 82.34 / 86
p0 −739.4 ± 2080
pull
Entries 87
Mean −86.88
Std Dev 124.1

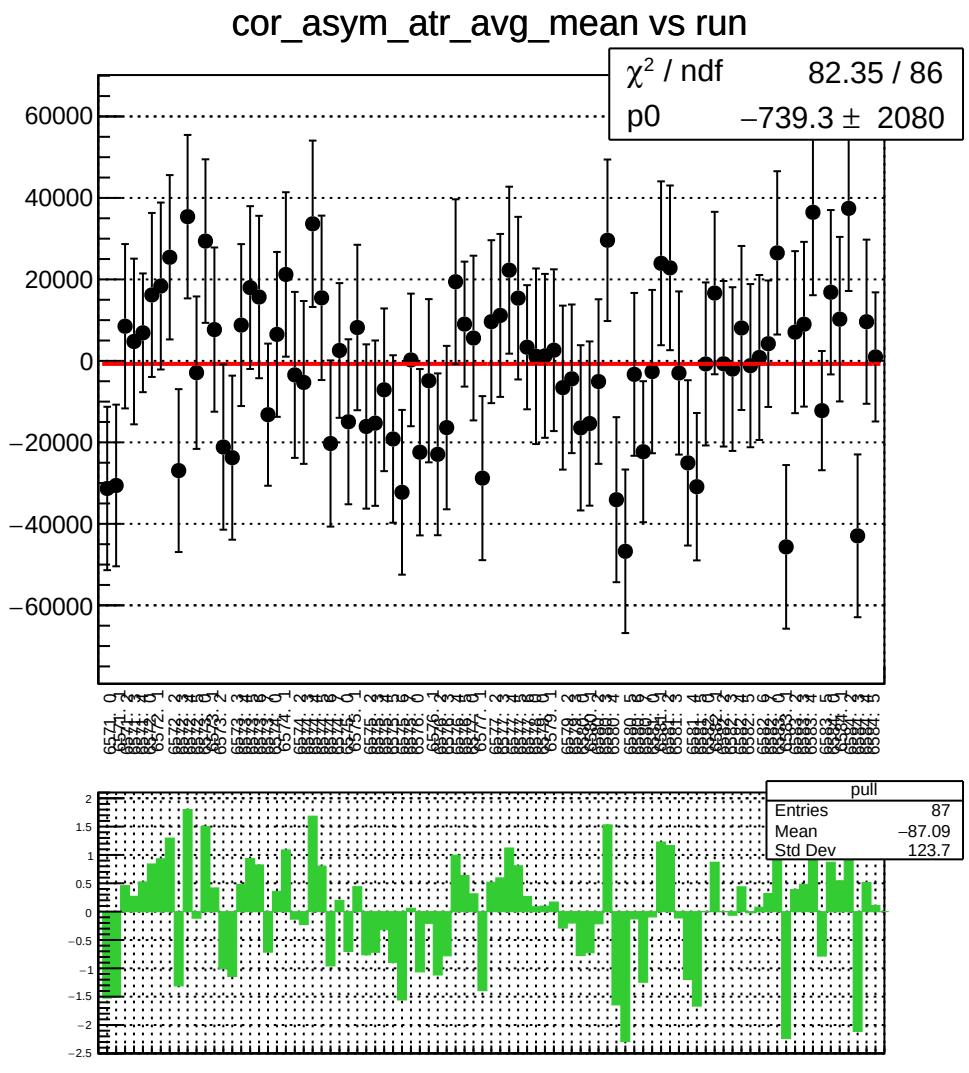

pull1D
Entries 87
Mean 0.002198
Std Dev 0.9729

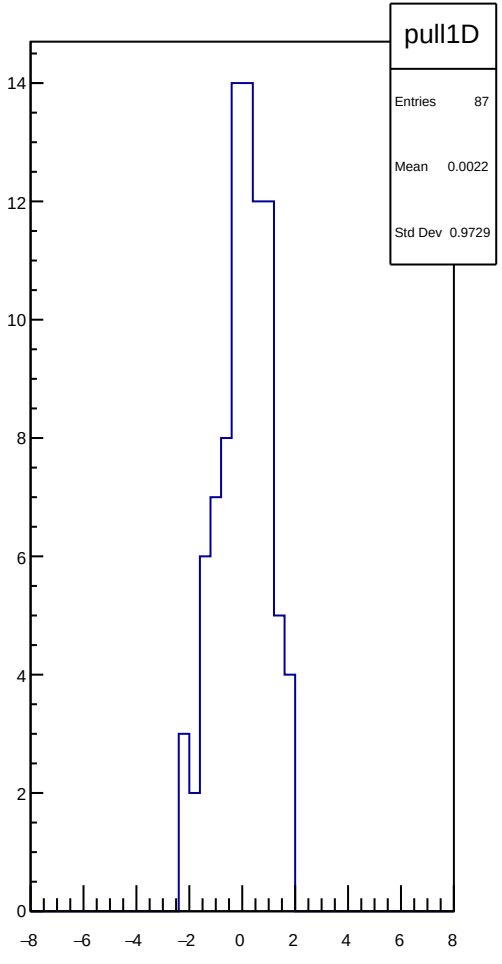

reg_asym_atr_avg_rms vs run
χ² / ndf 120.1 / 86
p0 1910 ± 1.471
1960
1940
1920
1900
1880
1860

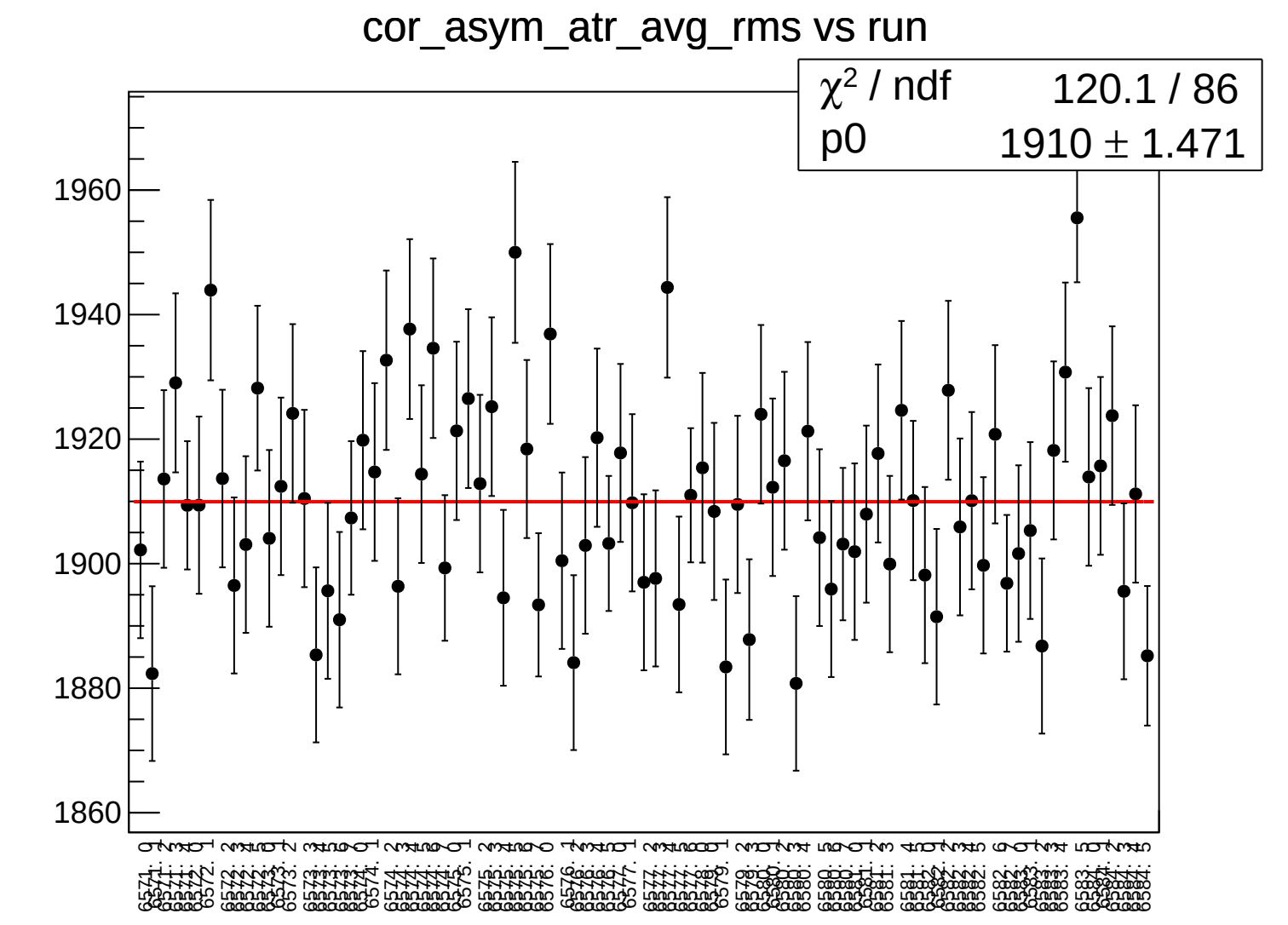

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.81 / 86
p0 3837 ± 4704
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −1050
Std Dev 0
2
1
0
−1
−2
−3

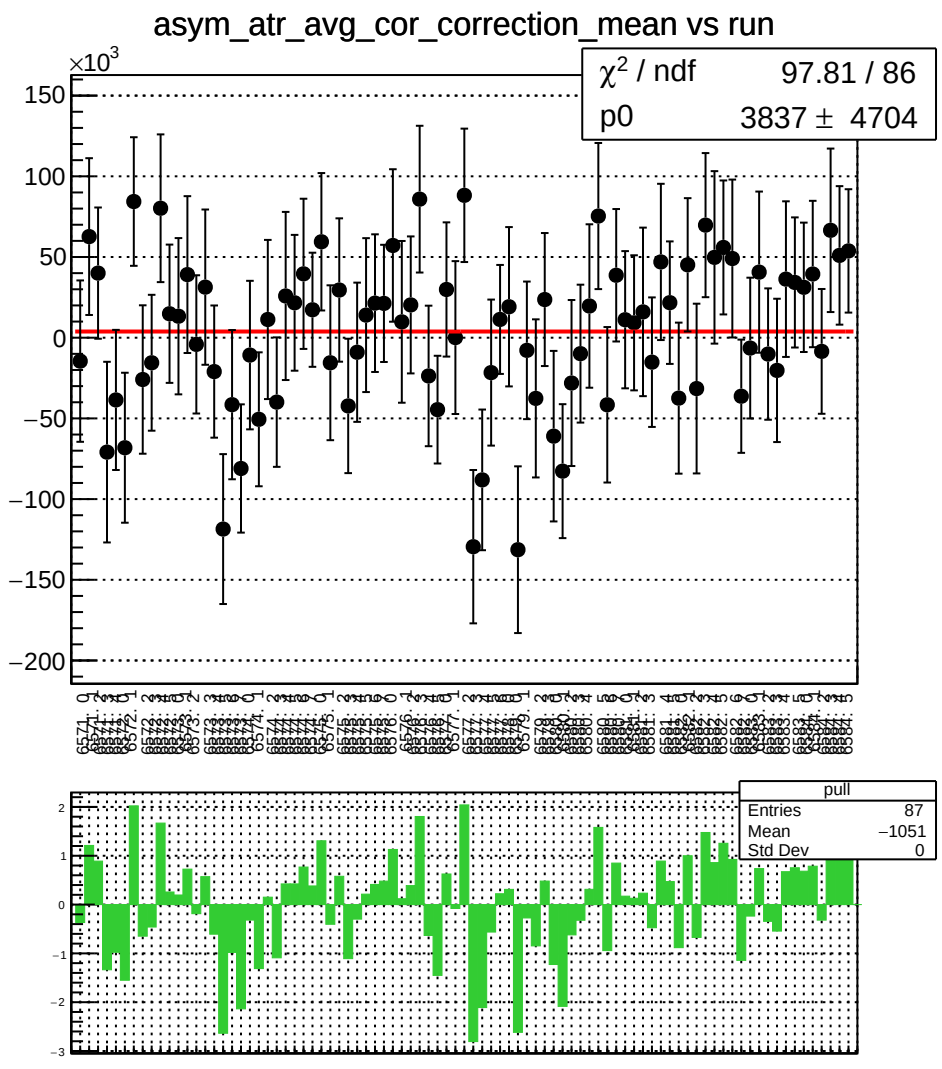

pull1D
Entries 87
Mean −0.004142
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

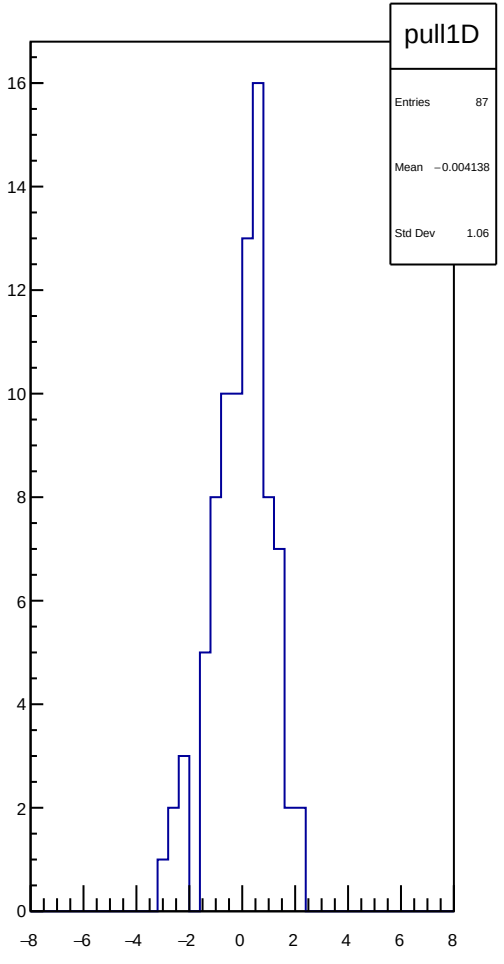

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 1.34e+04 / 86
p0 4302 ± 3.326
5500
5000
4500
4000
3500

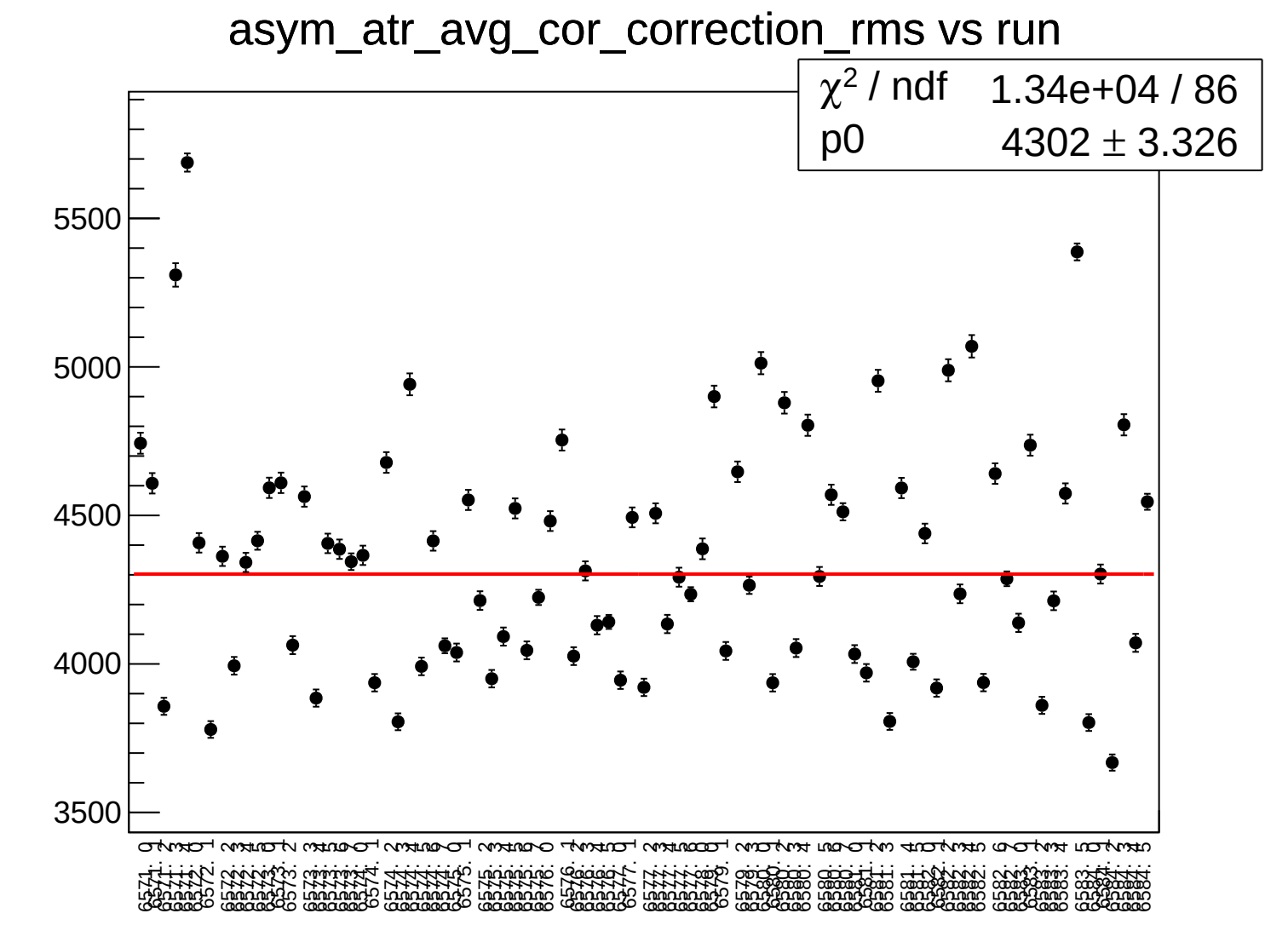

cor_asym_atr_avg_mean vs run
χ² / ndf 82.35 / 86
p0 −739.3 ± 2080
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −87.09
Std Dev 123.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

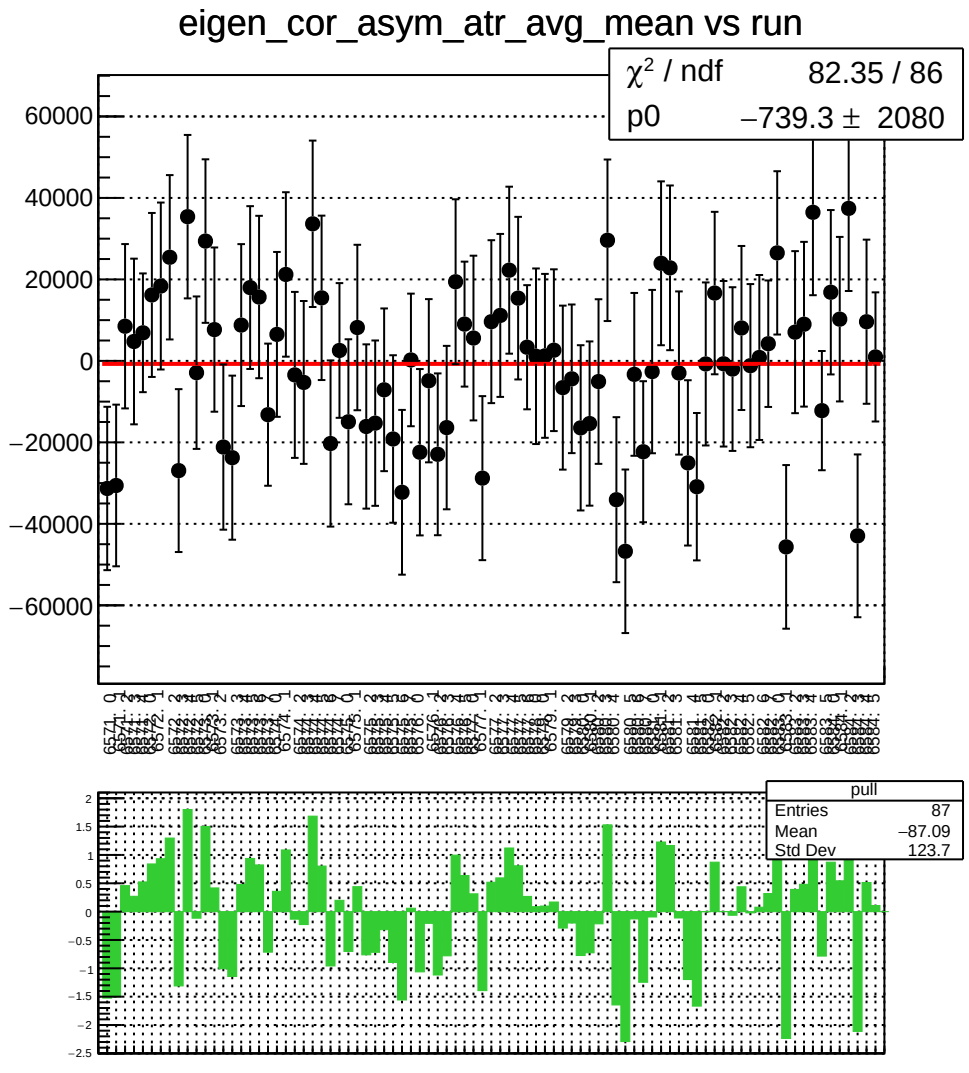

pull1D
Entries 87
Mean 0.0022
Std Dev 0.9729
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

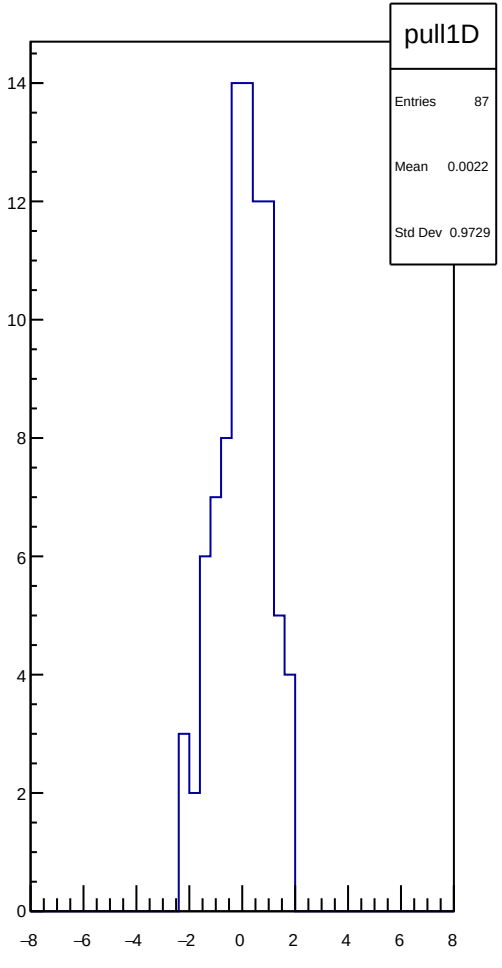

cor_asym_atr_avg_rms vs run
χ^2 / ndf 120.1 / 86
p0 1910 ± 1.471
1960
1940
1920
1900
1880
1860

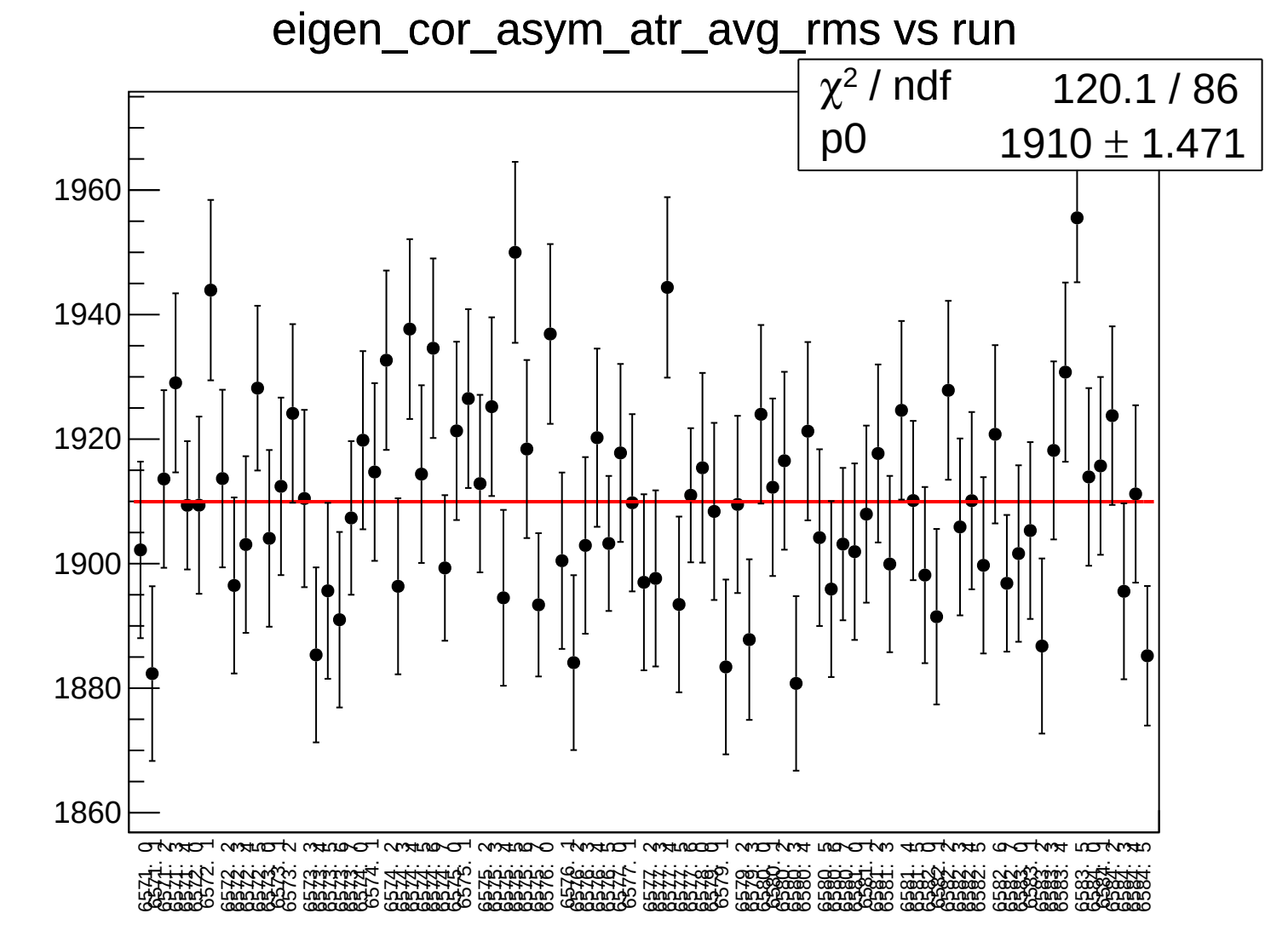

asym_atr_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.81 / 86
p0 3837 ± 4704
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −1051
Std Dev 0
2
1
0
−1
−2
−3

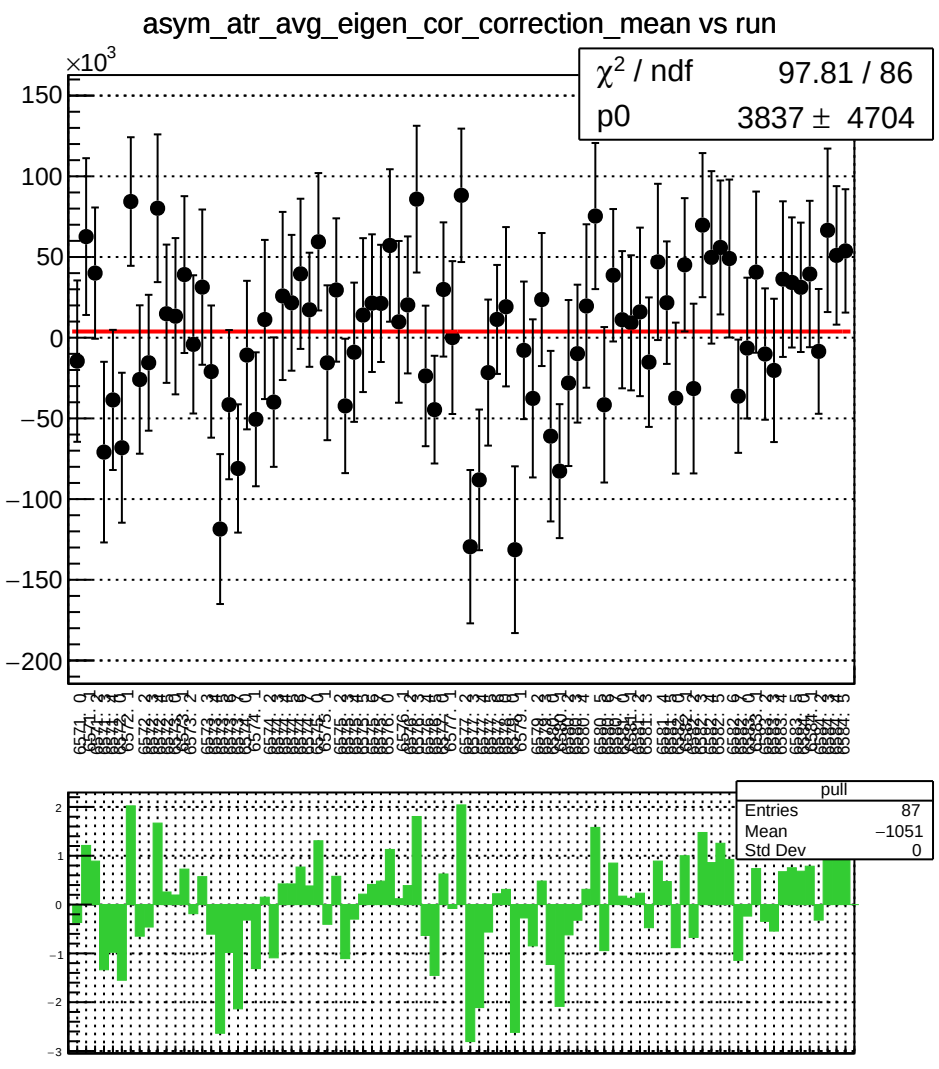

pull1D
Entries 87
Mean −0.004138
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

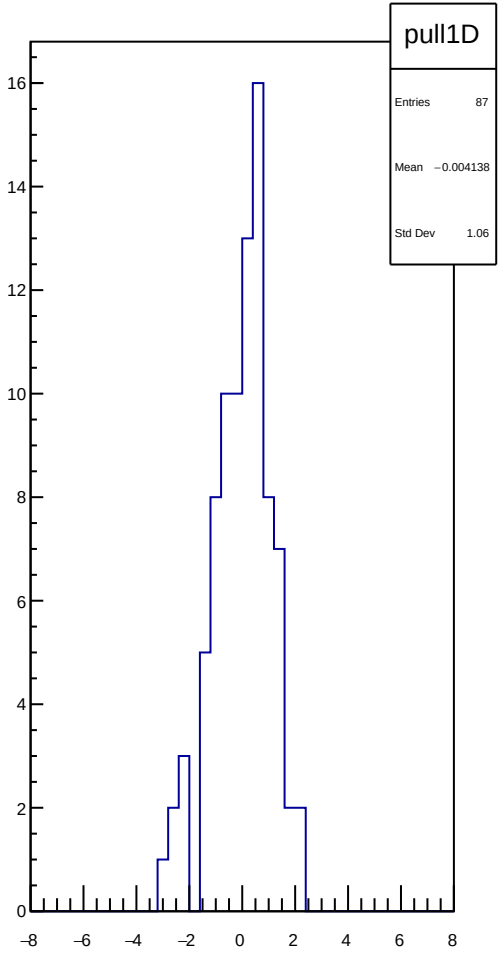

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1.34e+04 / 86
p0 4302 ± 3.326
5500
5000
4500
4000
3500

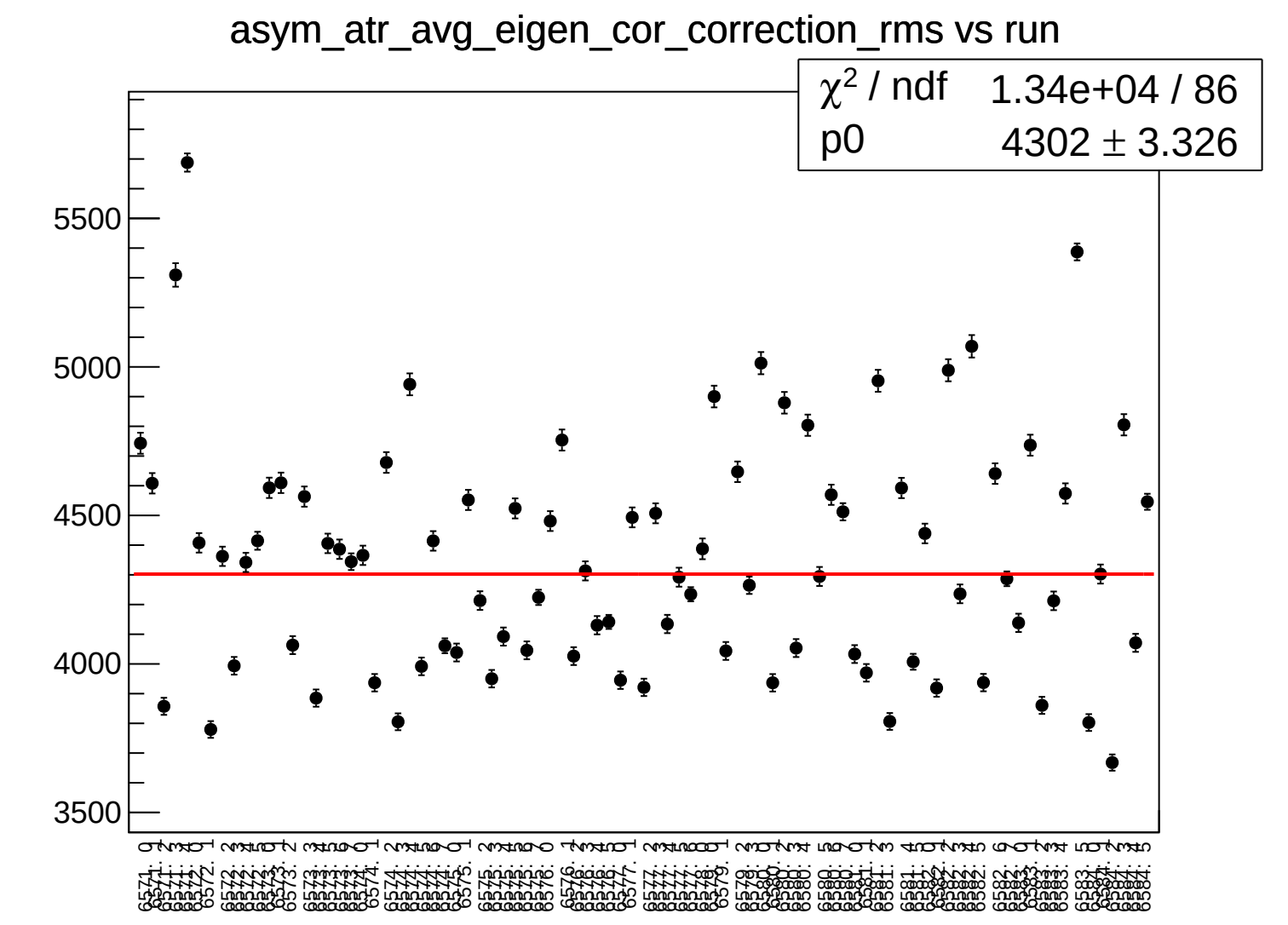

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 82.35 / 86
p0 −739.3 ± 2080
pull
Entries 87
Mean −87.09
Std Dev 123.7

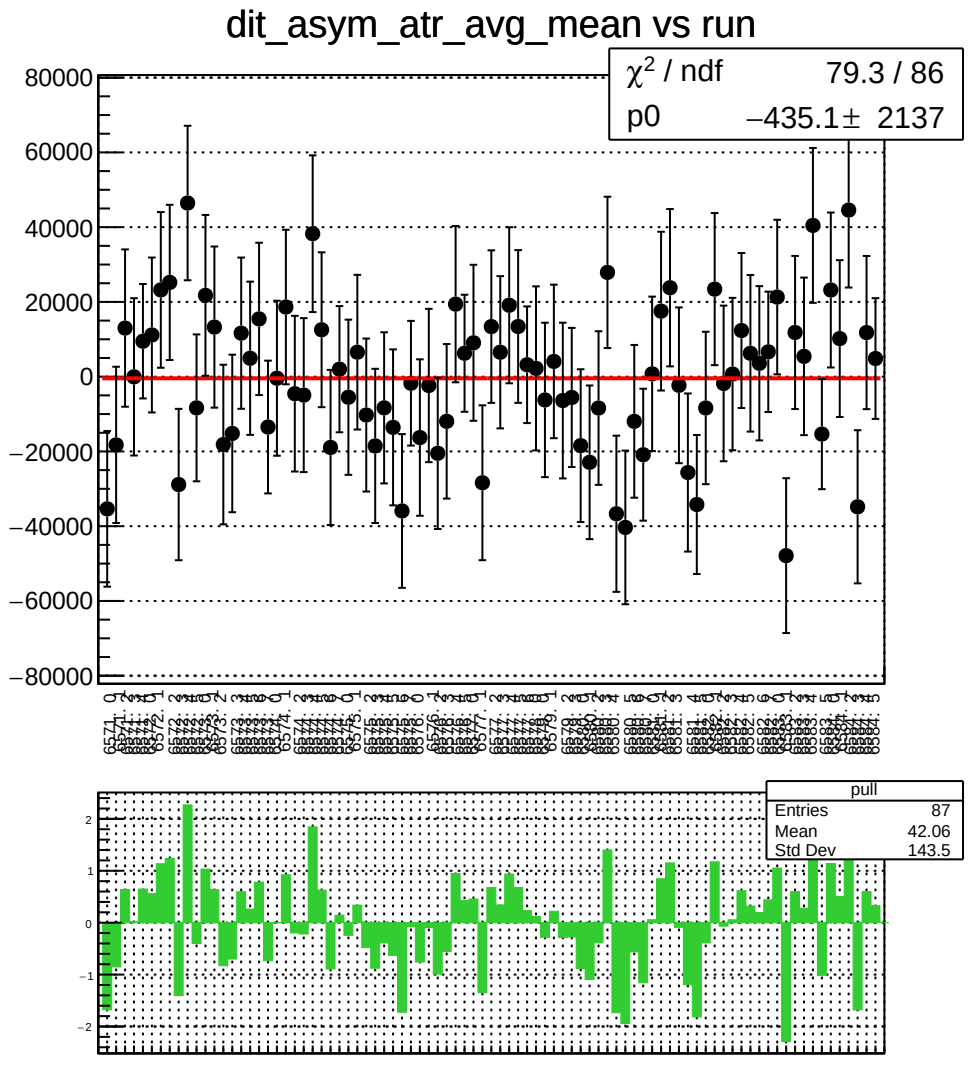

pull1D
Entries 87
Mean 0.0022
Std Dev 0.9729

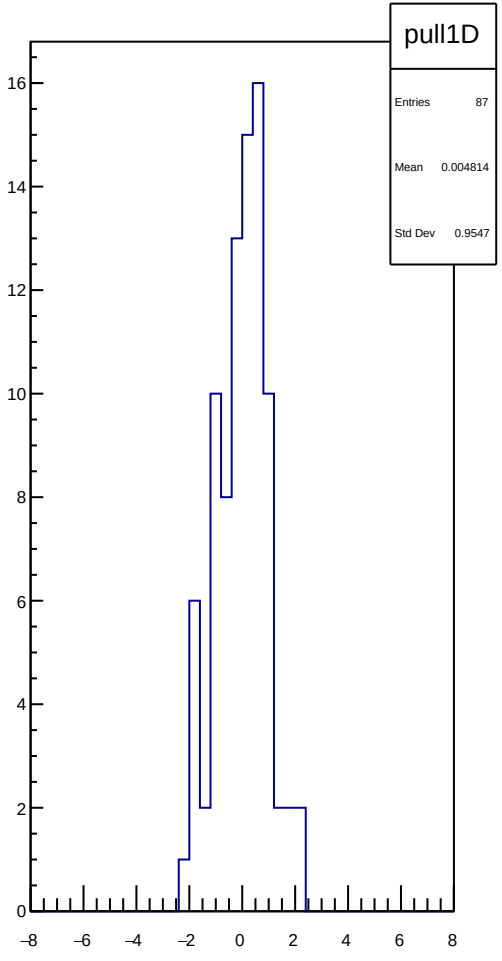

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 120.1 / 86
p0 1910 ± 1.471
1960
1940
1920
1900
1880
1860

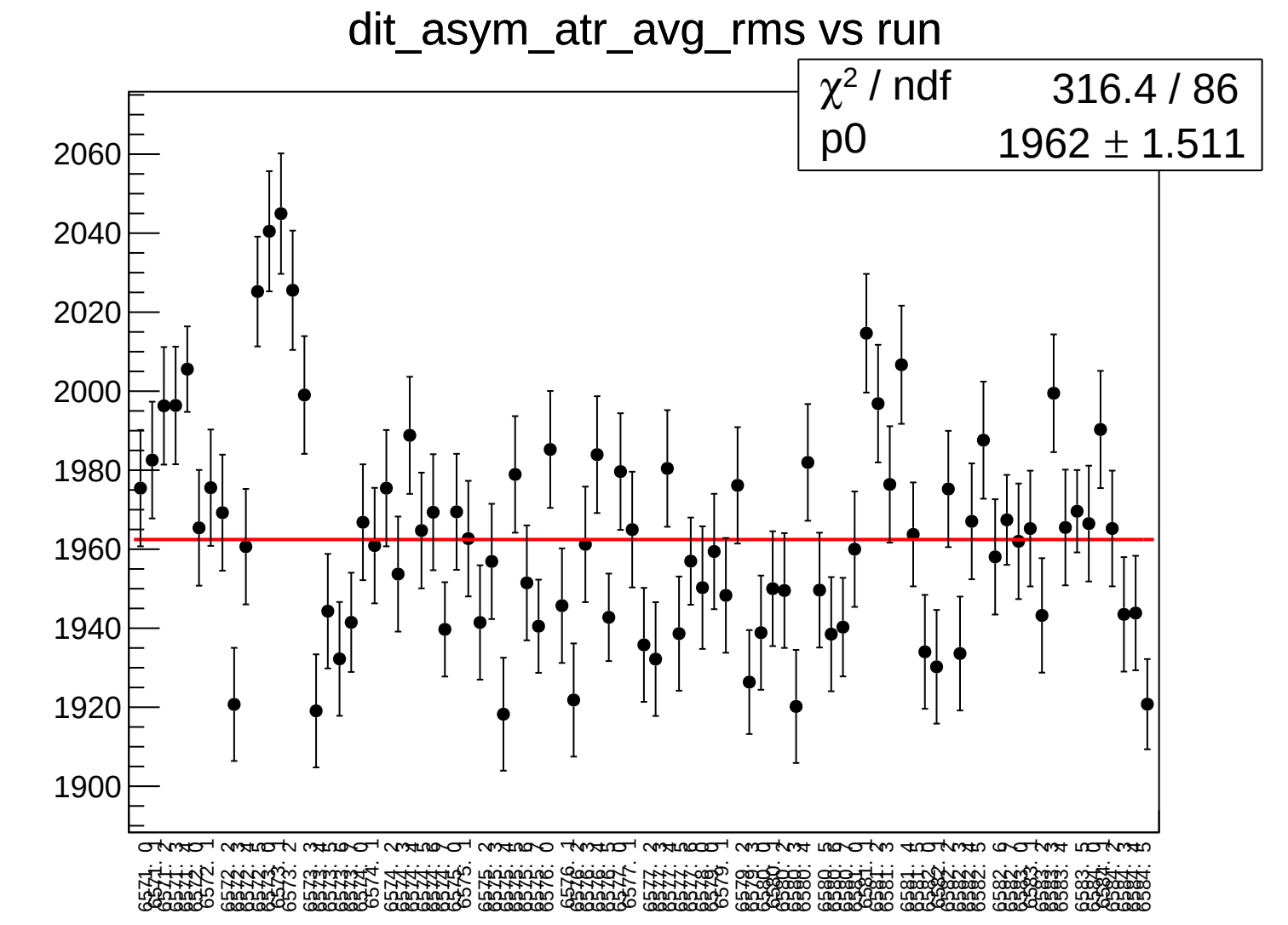

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.81 / 86
p0 3837 ± 4704
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −1051
Std Dev 0
2
1
0
−1
−2
−3

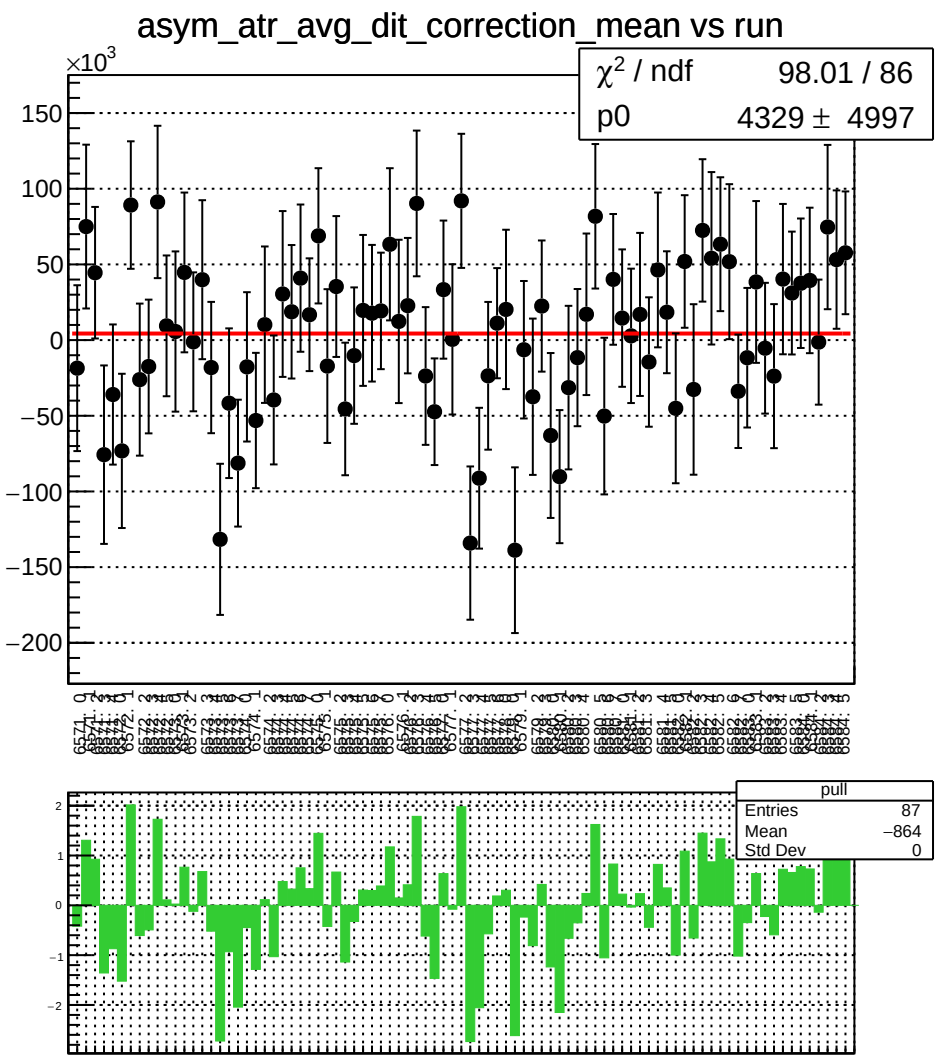

pull1D
Entries 87
Mean −0.004138
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

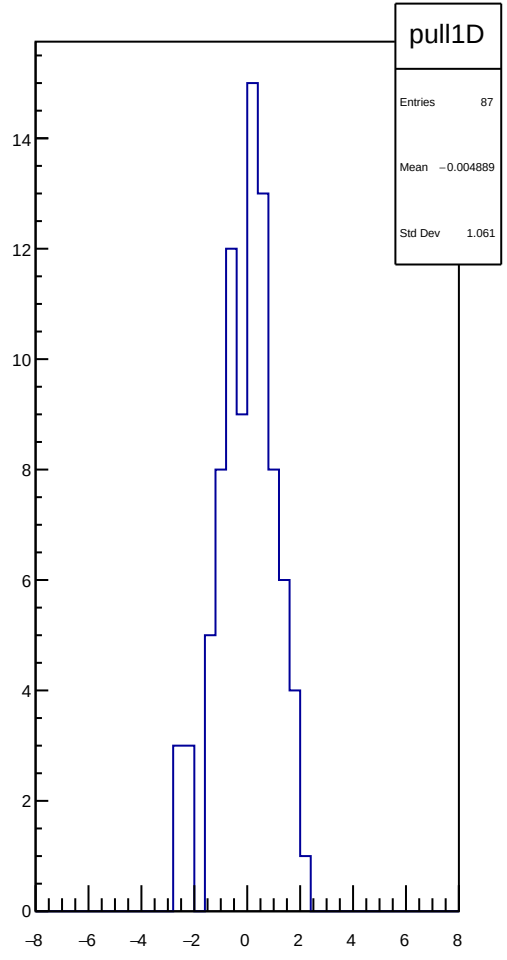

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.34e+04 / 86
p0 4302 ± 3.326
5500
5000
4500
4000
3500

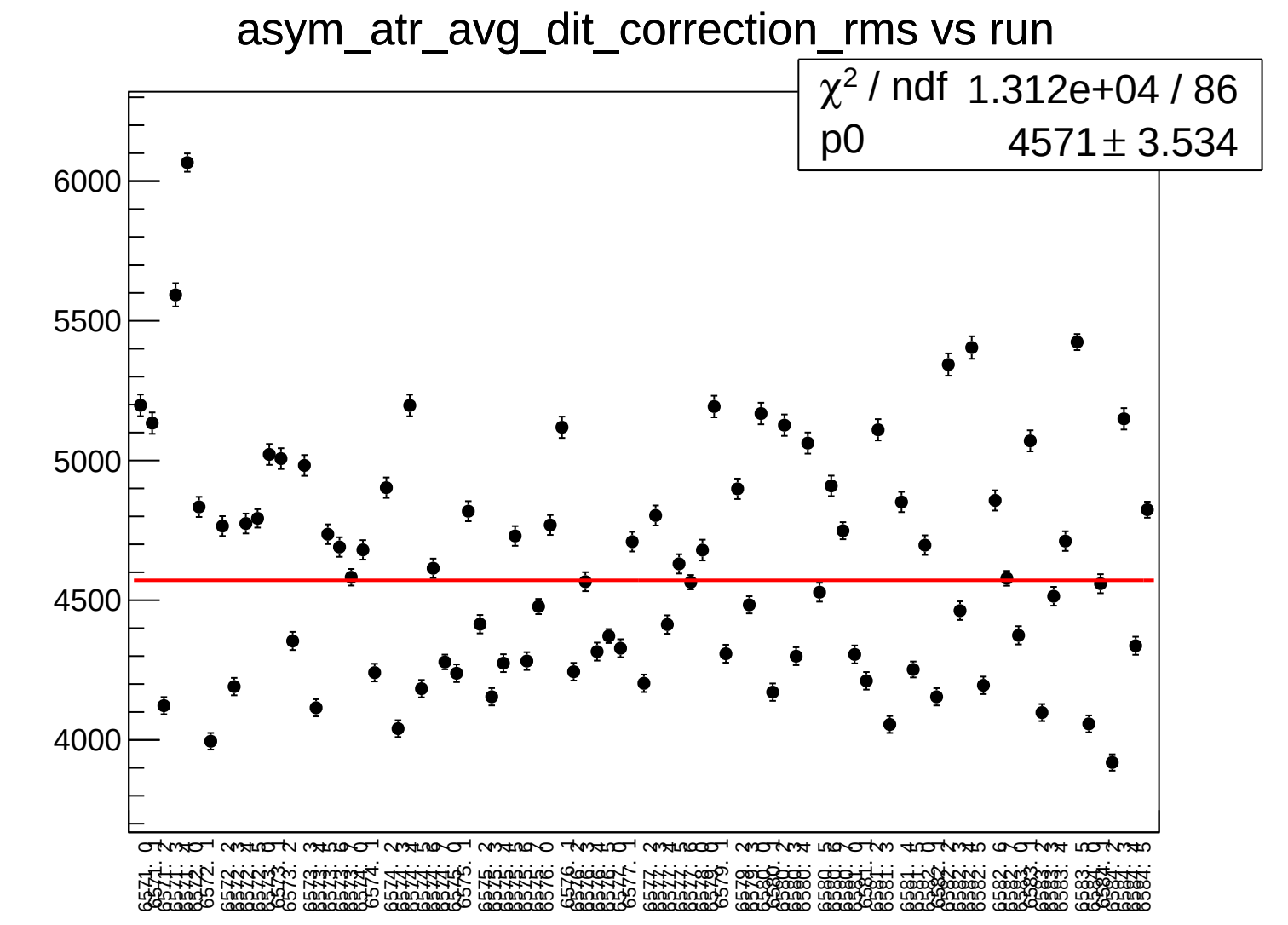

dit_asym_atr_avg_mean vs run
χ² / ndf 79.3 / 86
p0 −435.1± 2137
pull
Entries 87
Mean 42.06
Std Dev 143.5

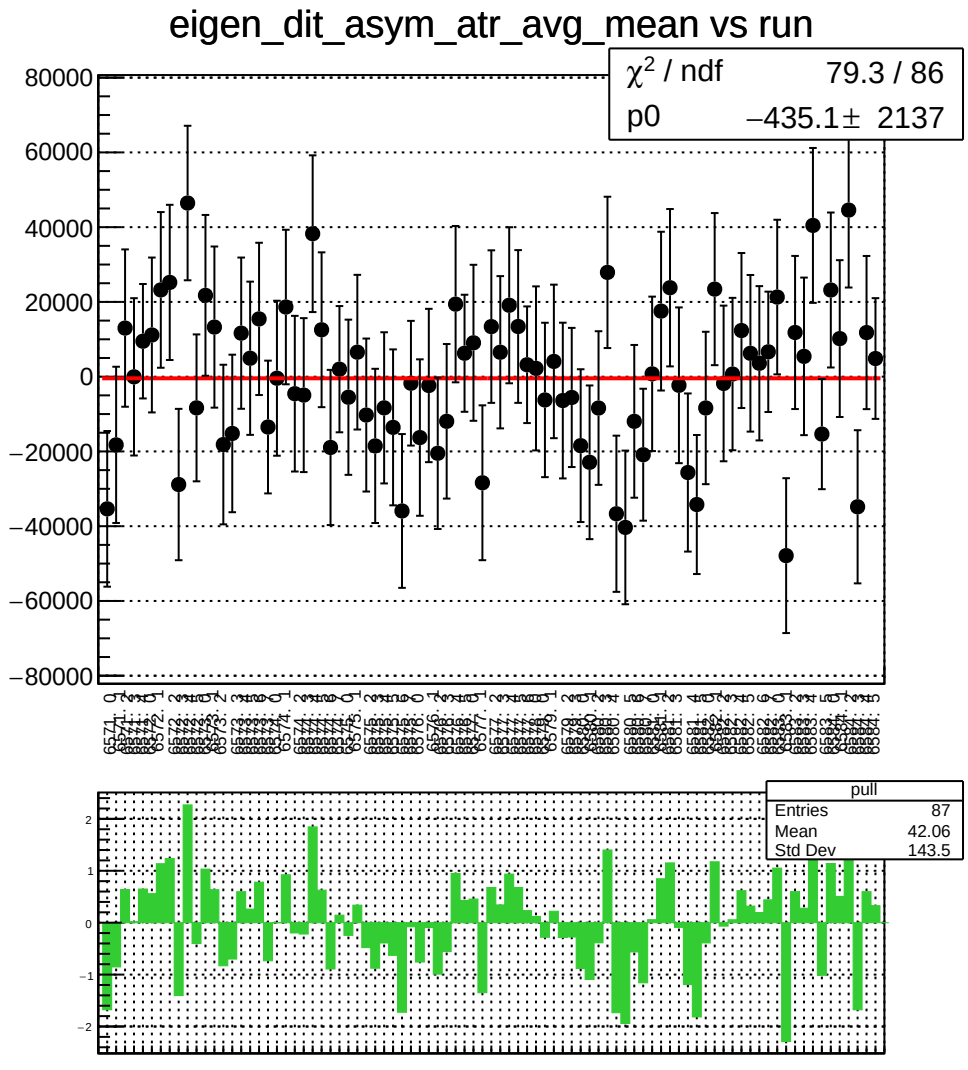

pull1D
Entries 87
Mean 0.004814
Std Dev 0.9547

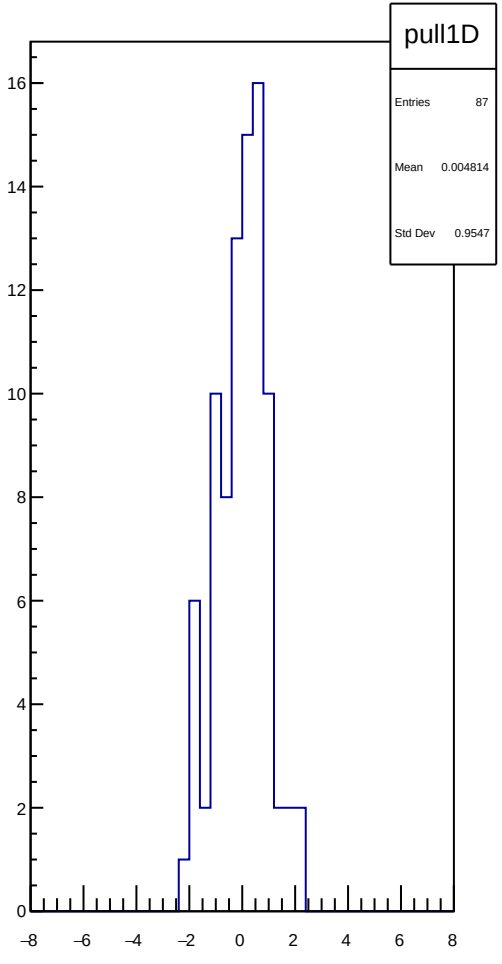

dit_asym_atr_avg_rms vs run
χ² / ndf 316.4 / 86
p0 1962 ± 1.511
2060
2040
2020
2000
1980
1960
1940
1920
1900

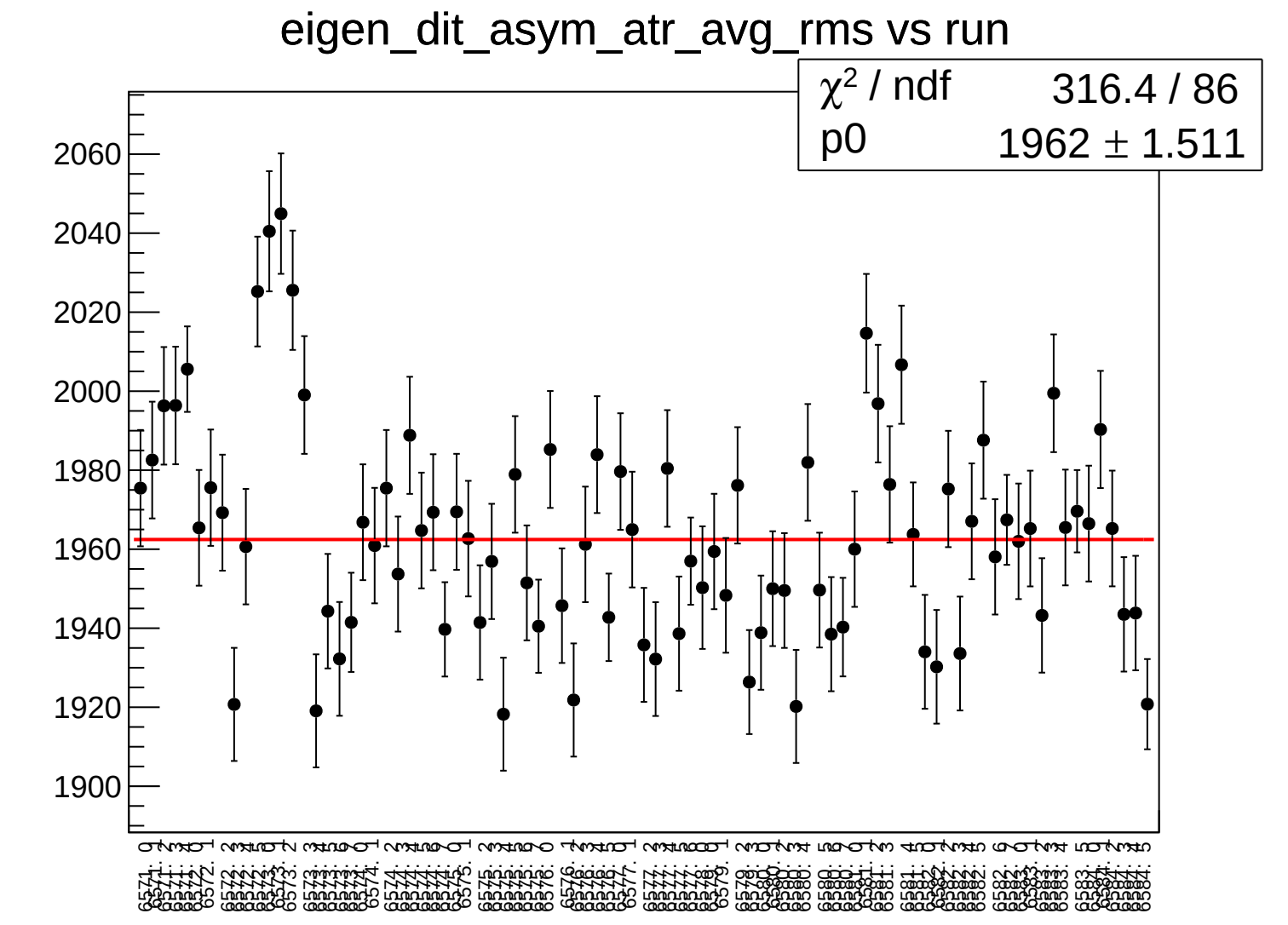

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 98.01 / 86
p0 4329 ± 4997
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −864
Std Dev 0
2
1
0
−1
−2

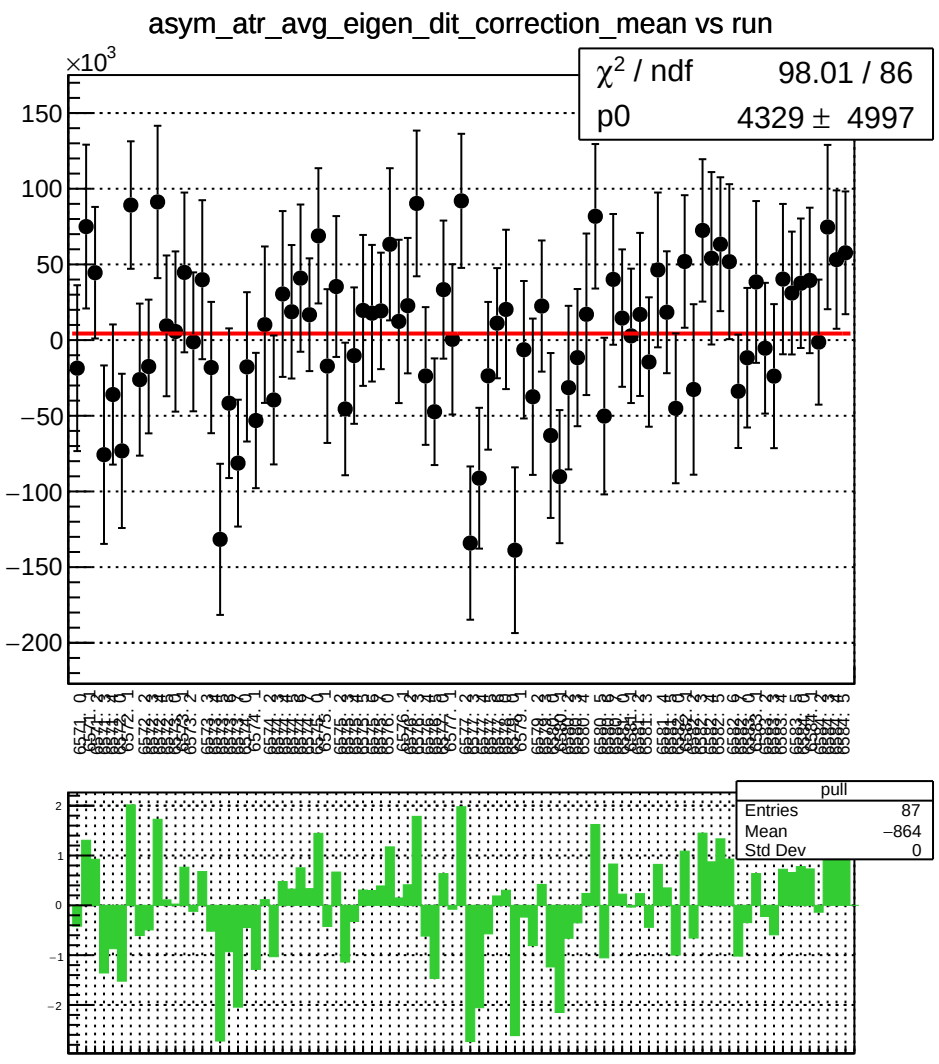

pull1D
Entries 87
Mean −0.004889
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

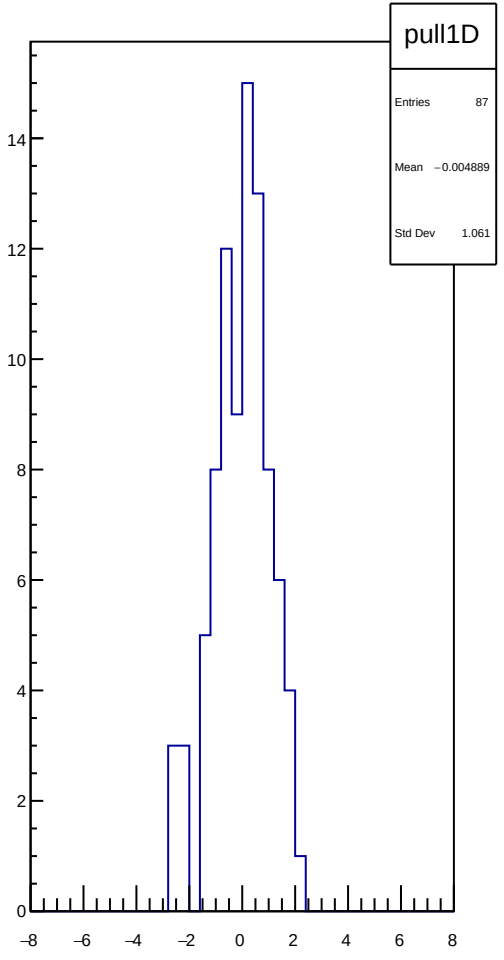

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 1.312e+04 / 86
p0 4571 ± 3.534
6000
5500
5000
4500
4000

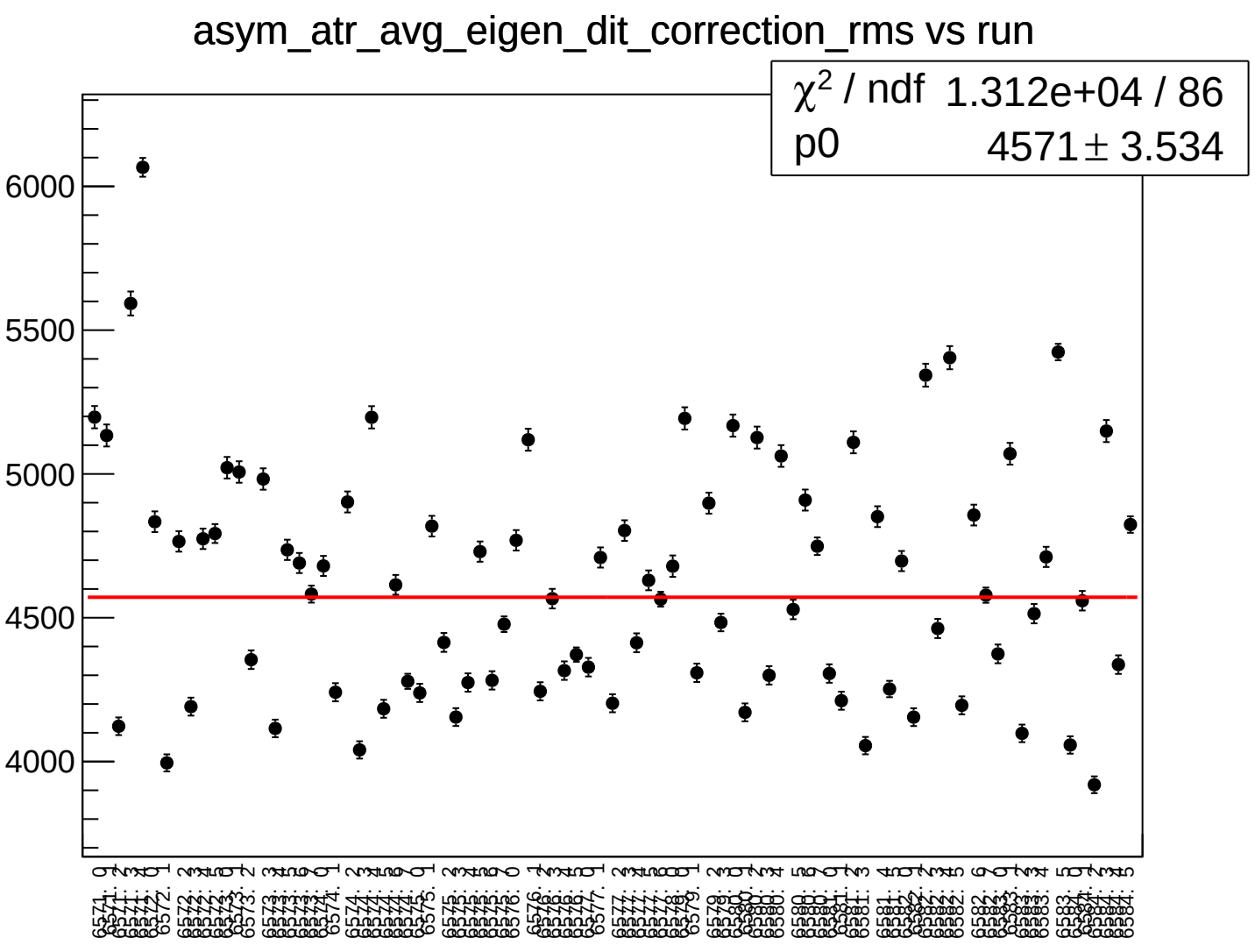

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 79.3 / 86
p0 −435.1± 2137
pull
Entries 87
Mean 42.06
Std Dev 143.5

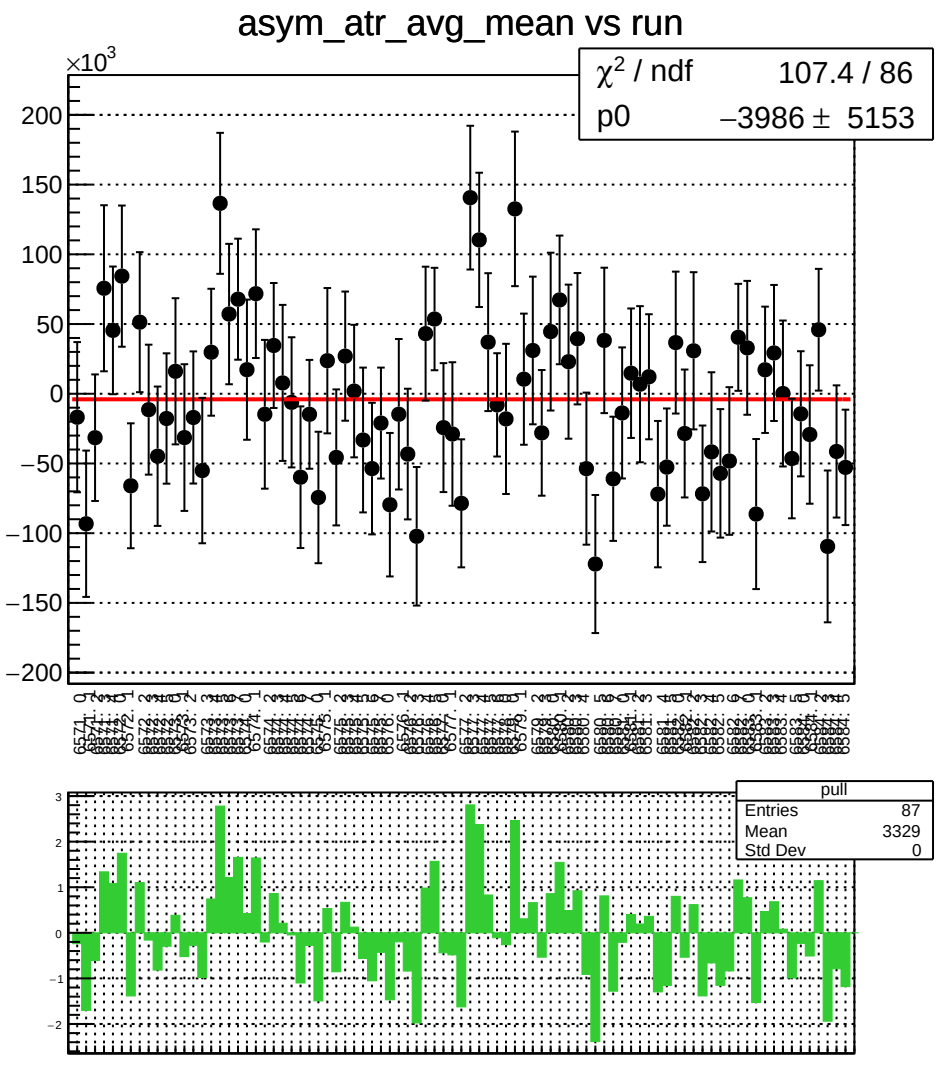

pull1D
Entries 87
Mean 0.004814
Std Dev 0.9547

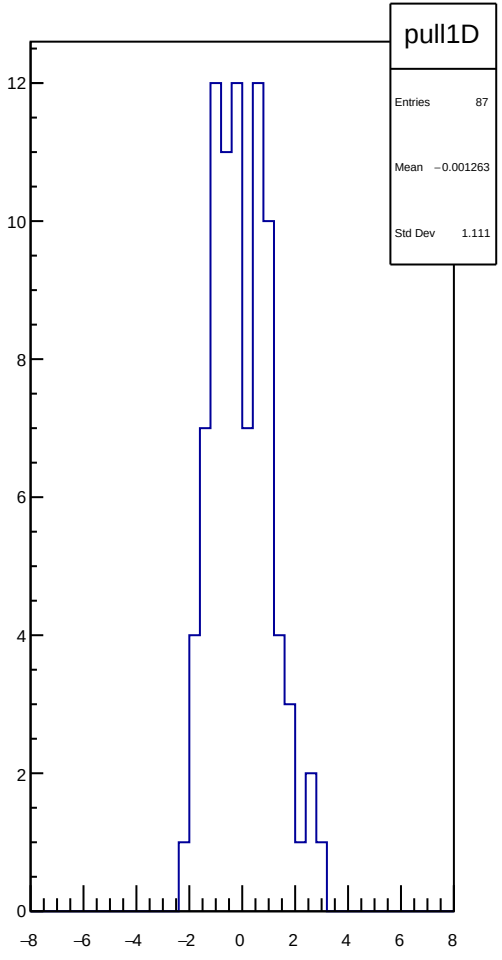

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 316.4 / 86
p0 1962 ± 1.511
2060
2040
2020
2000
1980
1960
1940
1920
1900

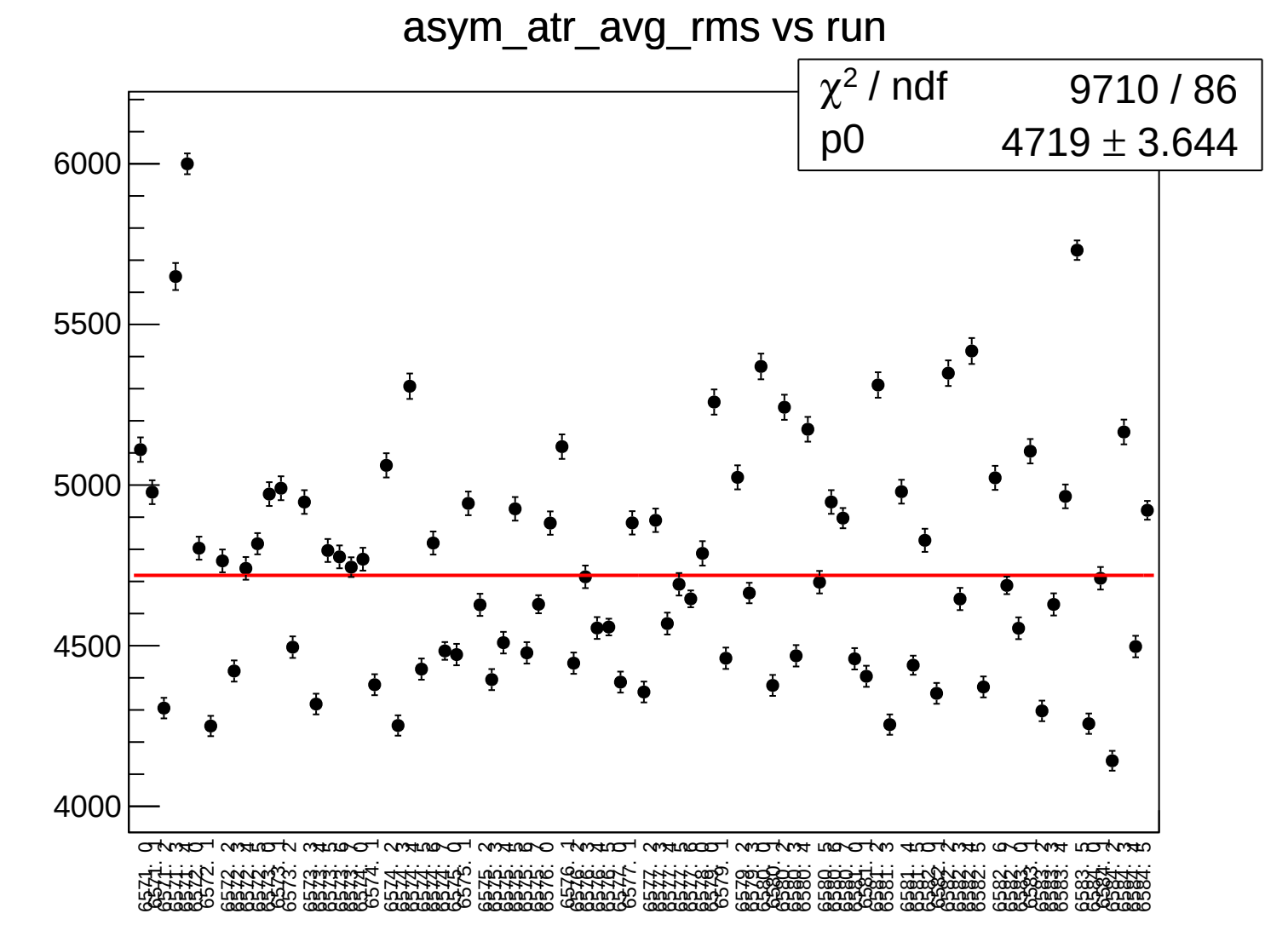

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.01 / 86
p0 4329 ± 4997
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −864
Std Dev 0
2
1
0
−1
−2

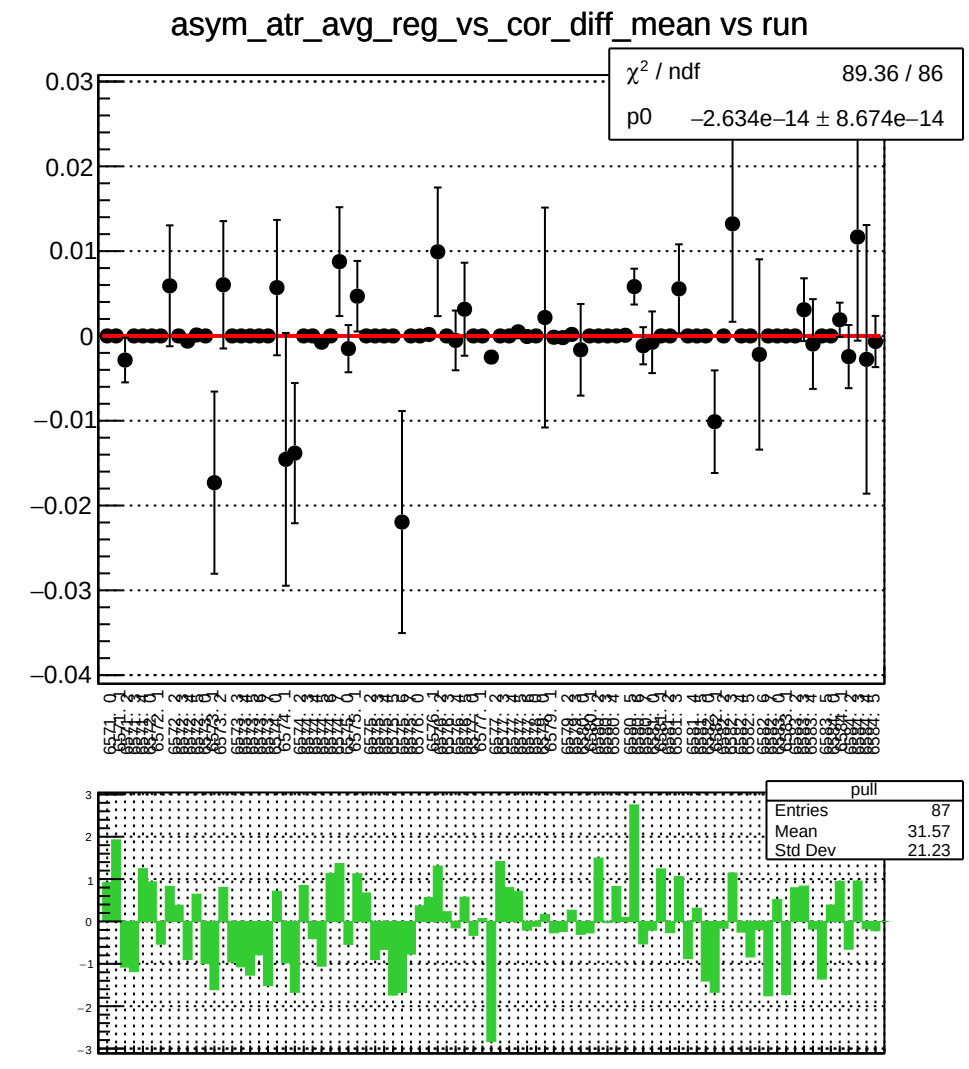

pull1D
Entries 87
Mean −0.004889
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

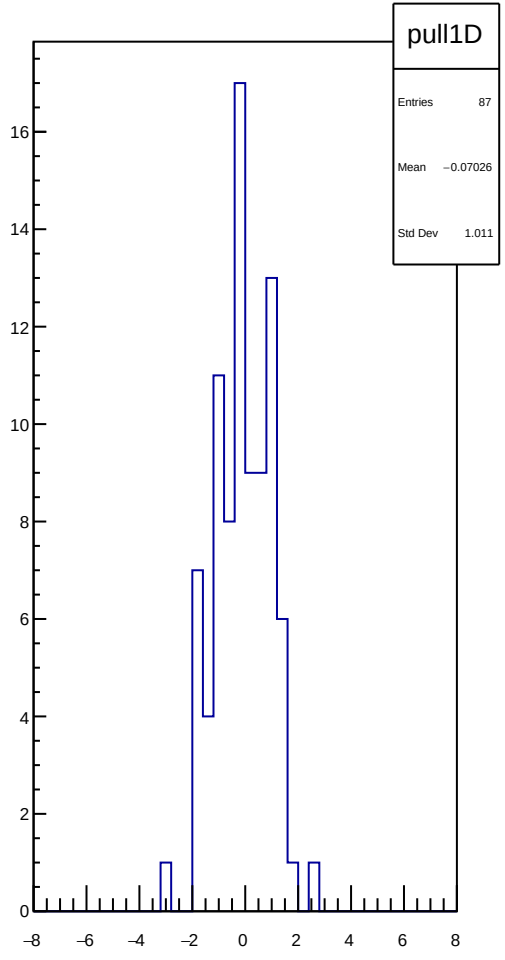

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.312e+04 / 86
p0 4571 ± 3.534
6000
5500
5000
4500
4000

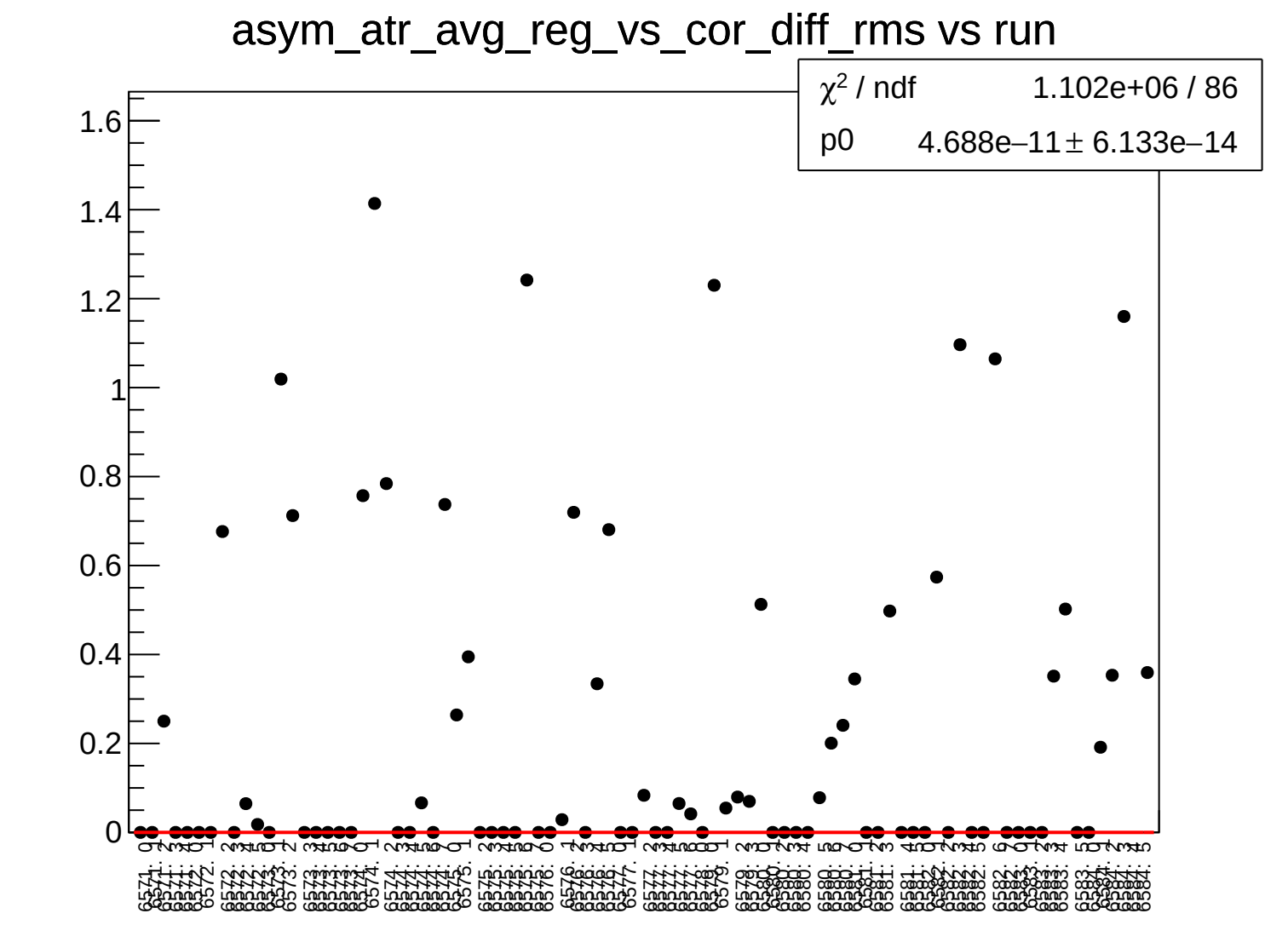

asym_atr_avg_mean vs run
×10^3
χ² / ndf 107.4 / 86
p0 −3986 ± 5153
pull
Entries 87
Mean 3329
Std Dev 0

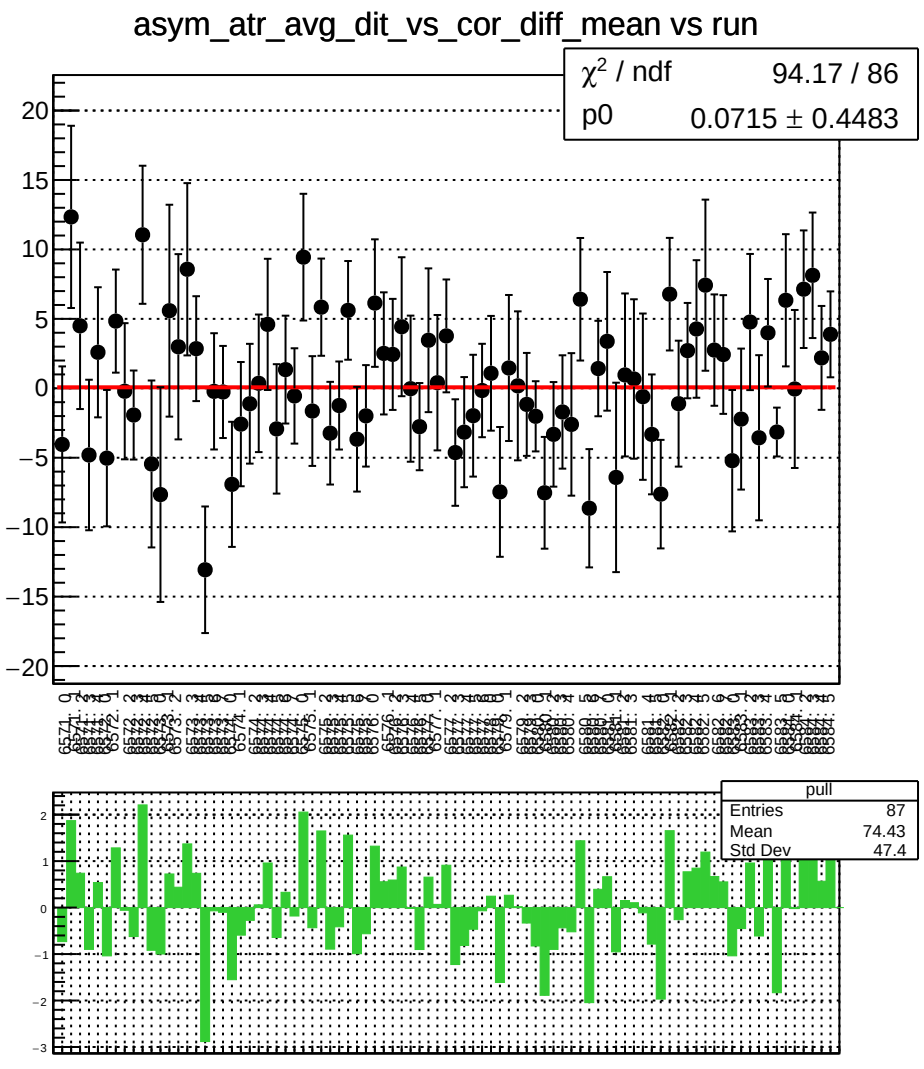

pull1D
Entries 87
Mean −0.001263
Std Dev 1.111

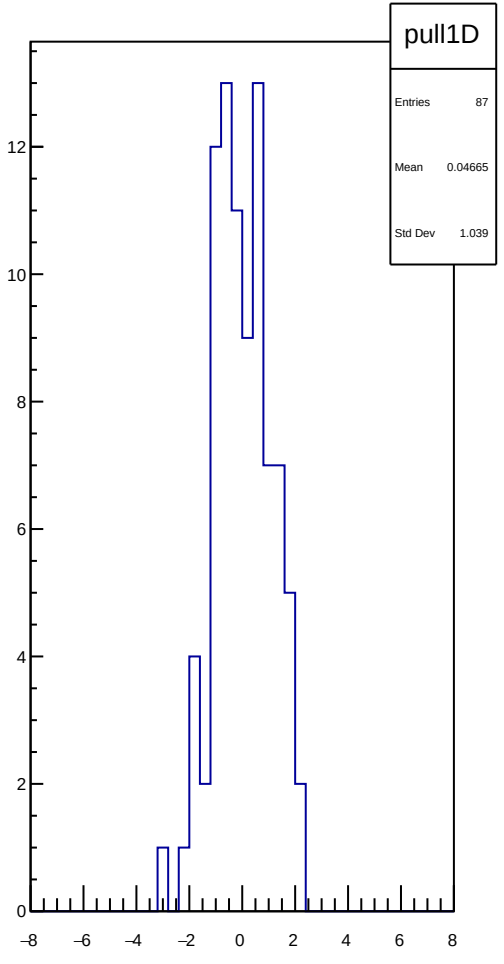

asym_atr_avg_rms vs run
χ² / ndf 9710 / 86
p0 4719 ± 3.644
6000
5500
5000
4500
4000

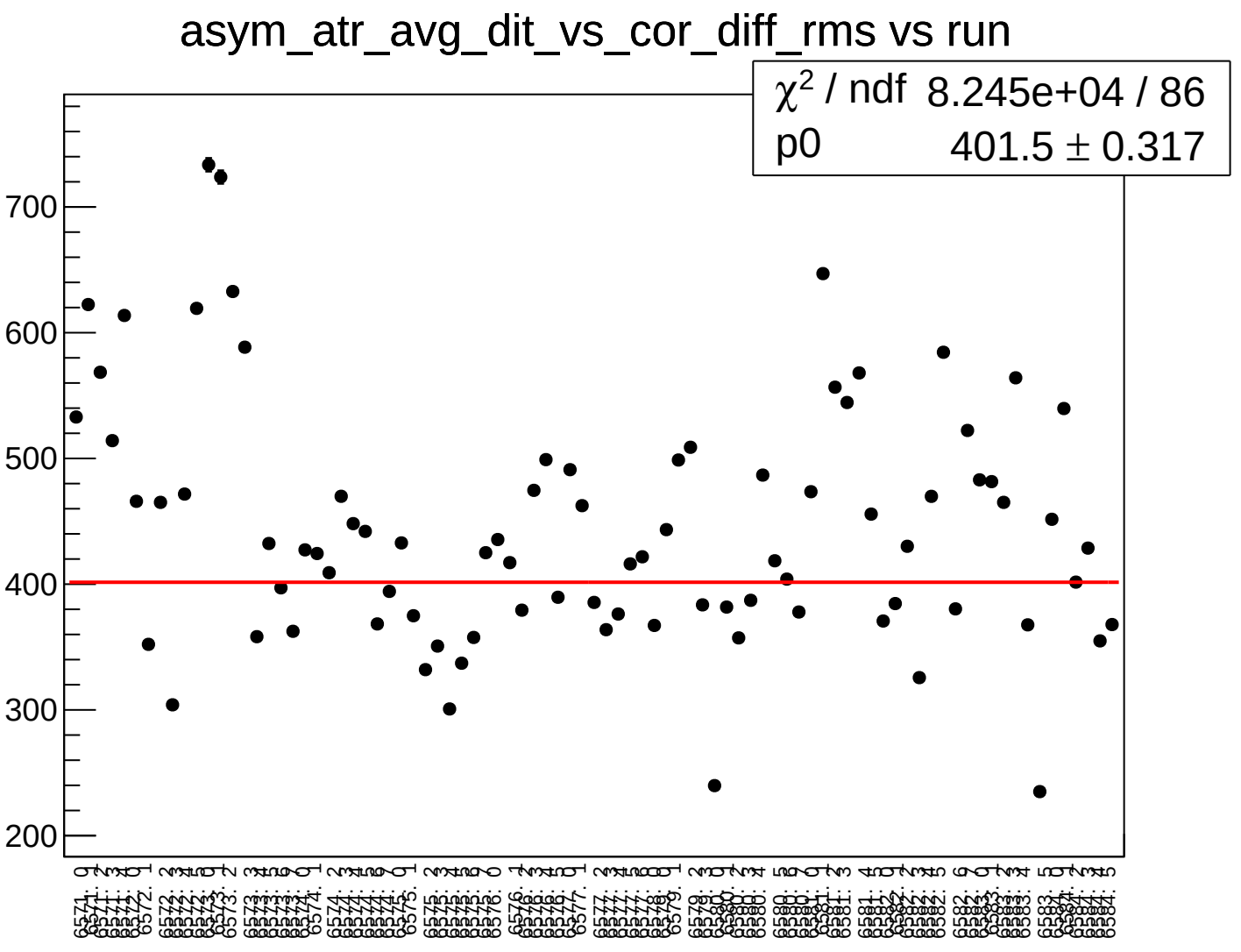

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.36 / 86
p0 −2.634e−14 ± 8.674e−14
pull
Entries 87
Mean 31.57
Std Dev 21.23

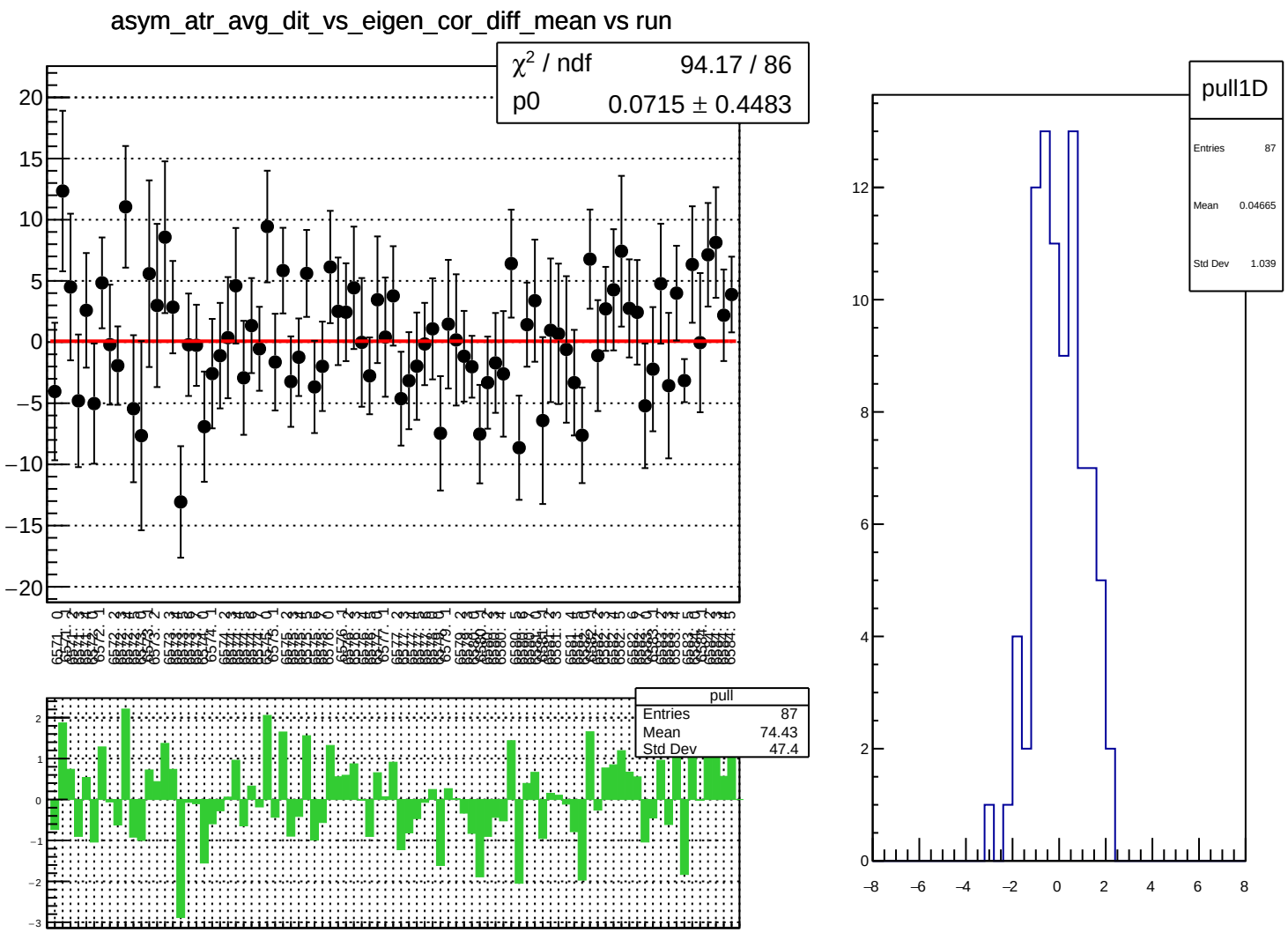

pull1D
Entries 87
Mean −0.07026
Std Dev 1.011

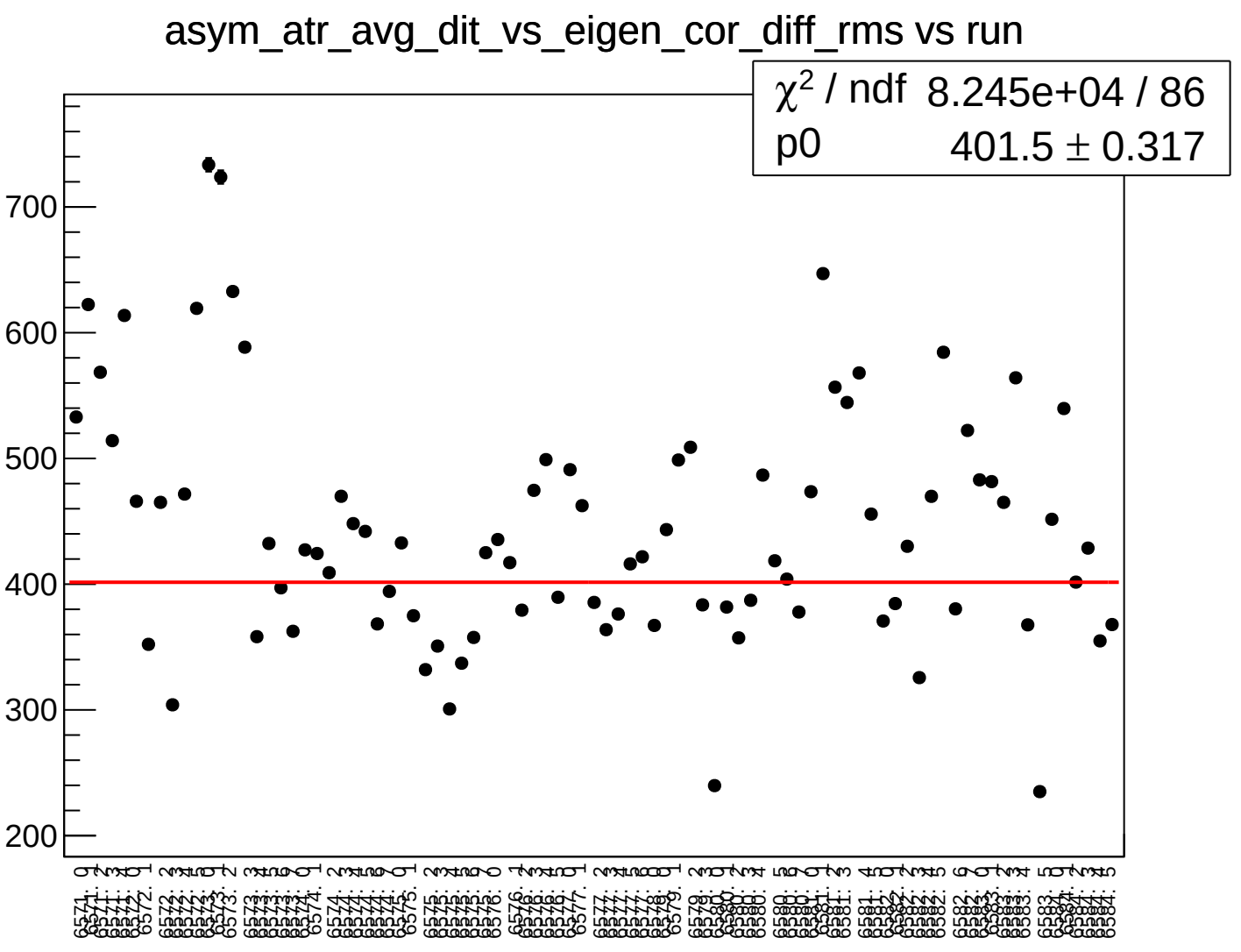

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 86
p0 4.688e−11 ± 6.133e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

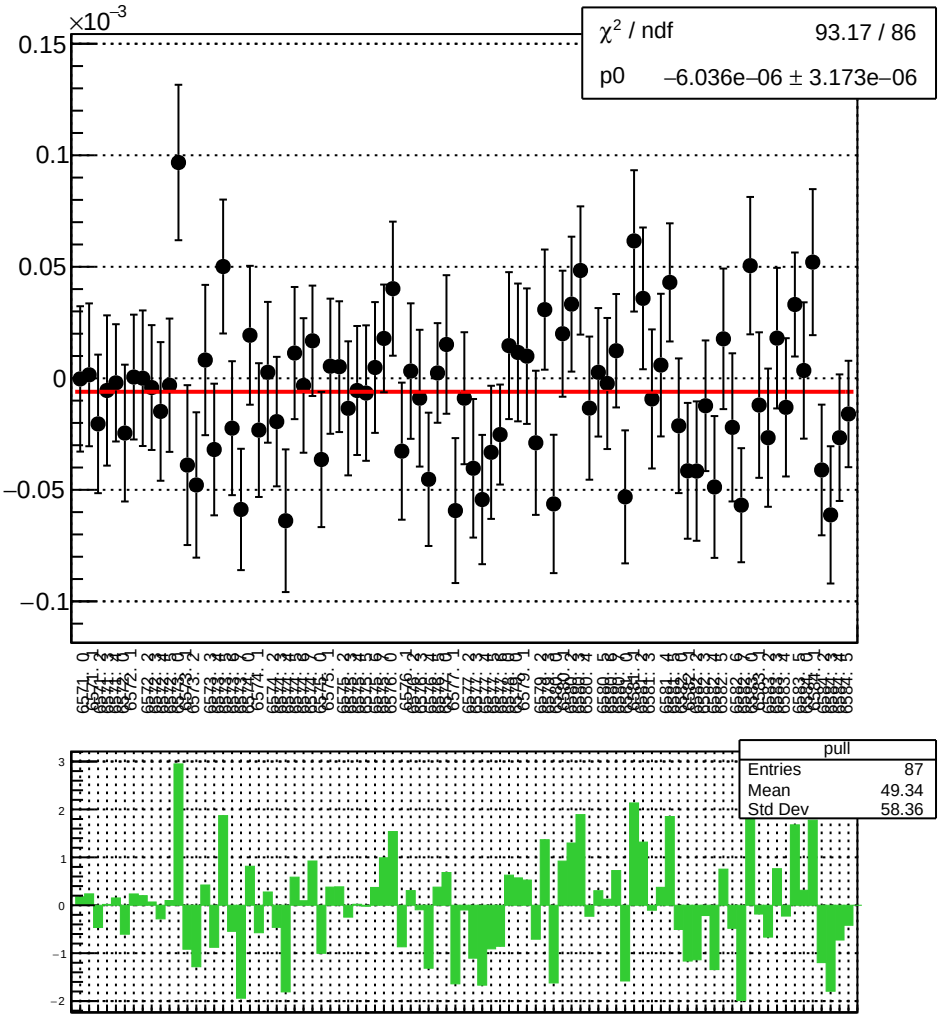

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.17 / 86
p0 0.0715 ± 0.4483
pull
Entries 87
Mean 74.43
Std Dev 47.4

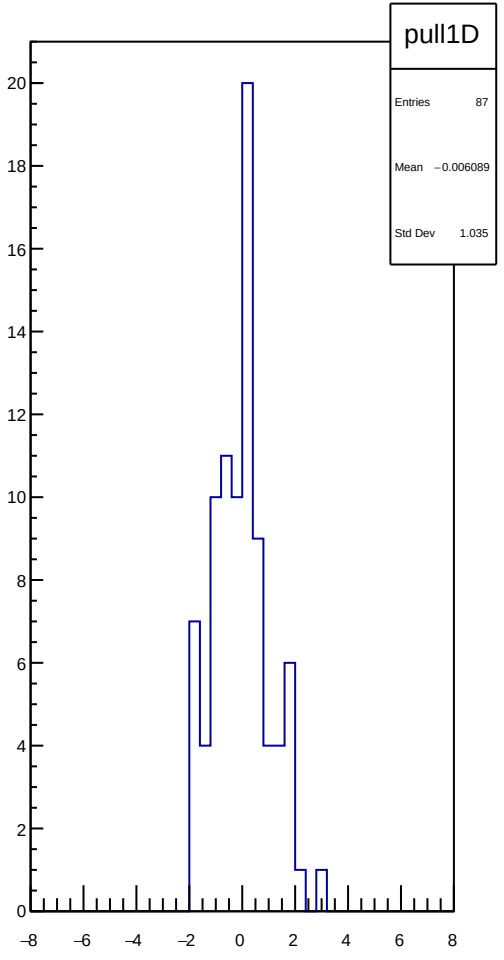

pull1D
Entries 87
Mean 0.04665
Std Dev 1.039

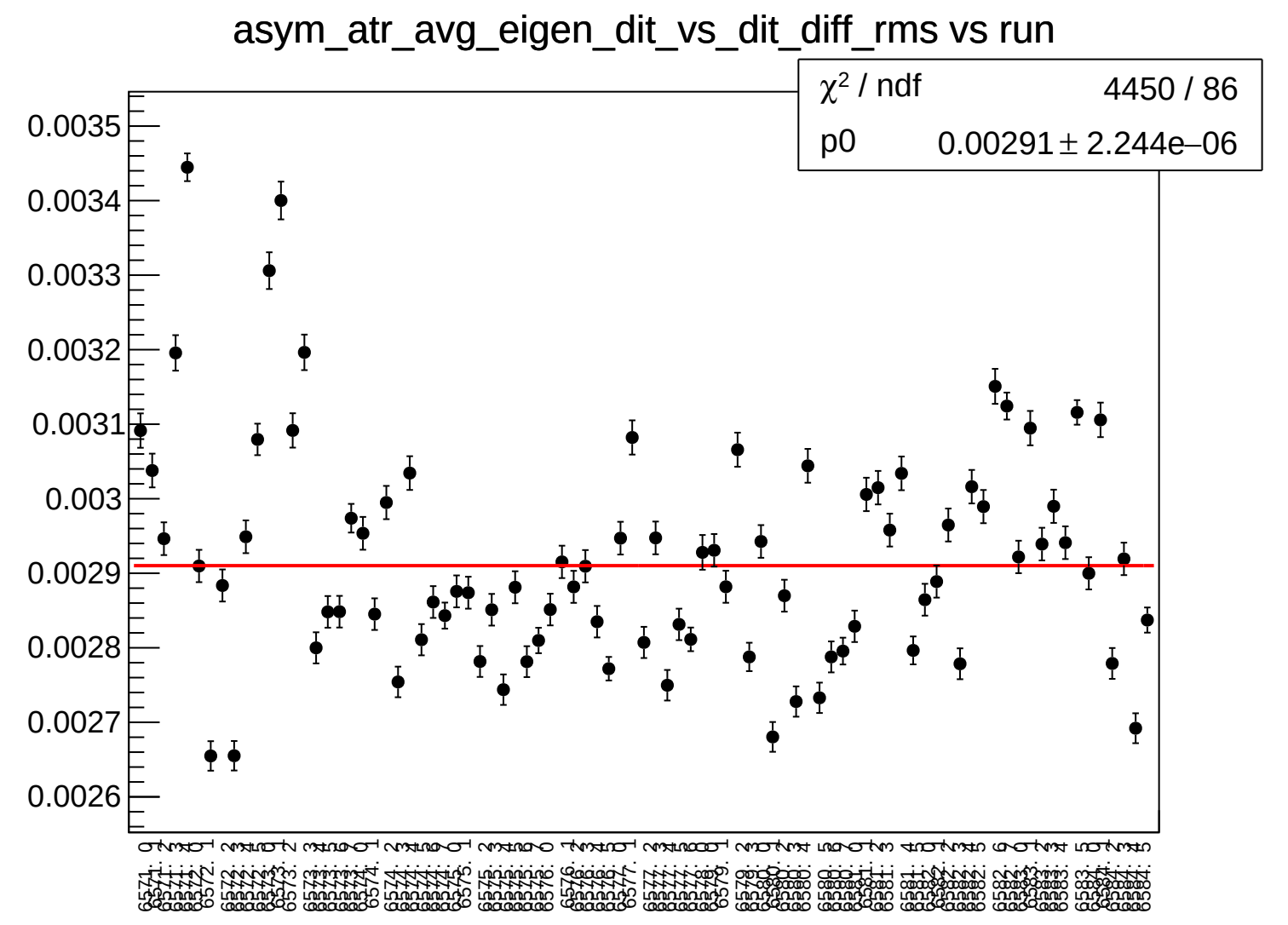

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.245e+04 / 86
p0 401.5 ± 0.317
700
600
500
400
300
200

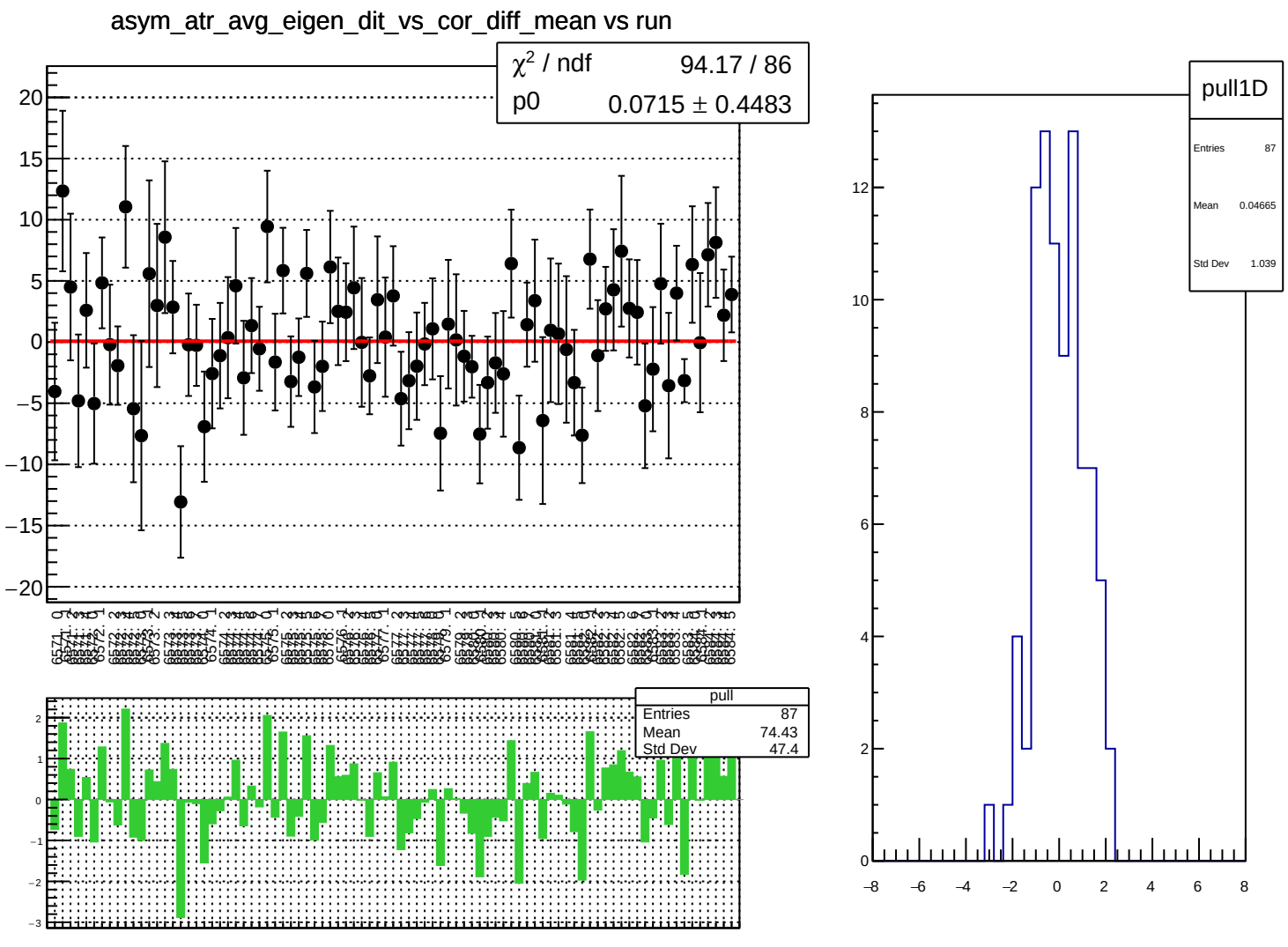

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.17 / 86
p0 0.0715 ± 0.4483
pull
Entries 87
Mean 74.43
Std Dev 47.4
pull1D
Entries 87
Mean 0.04665
Std Dev 1.039

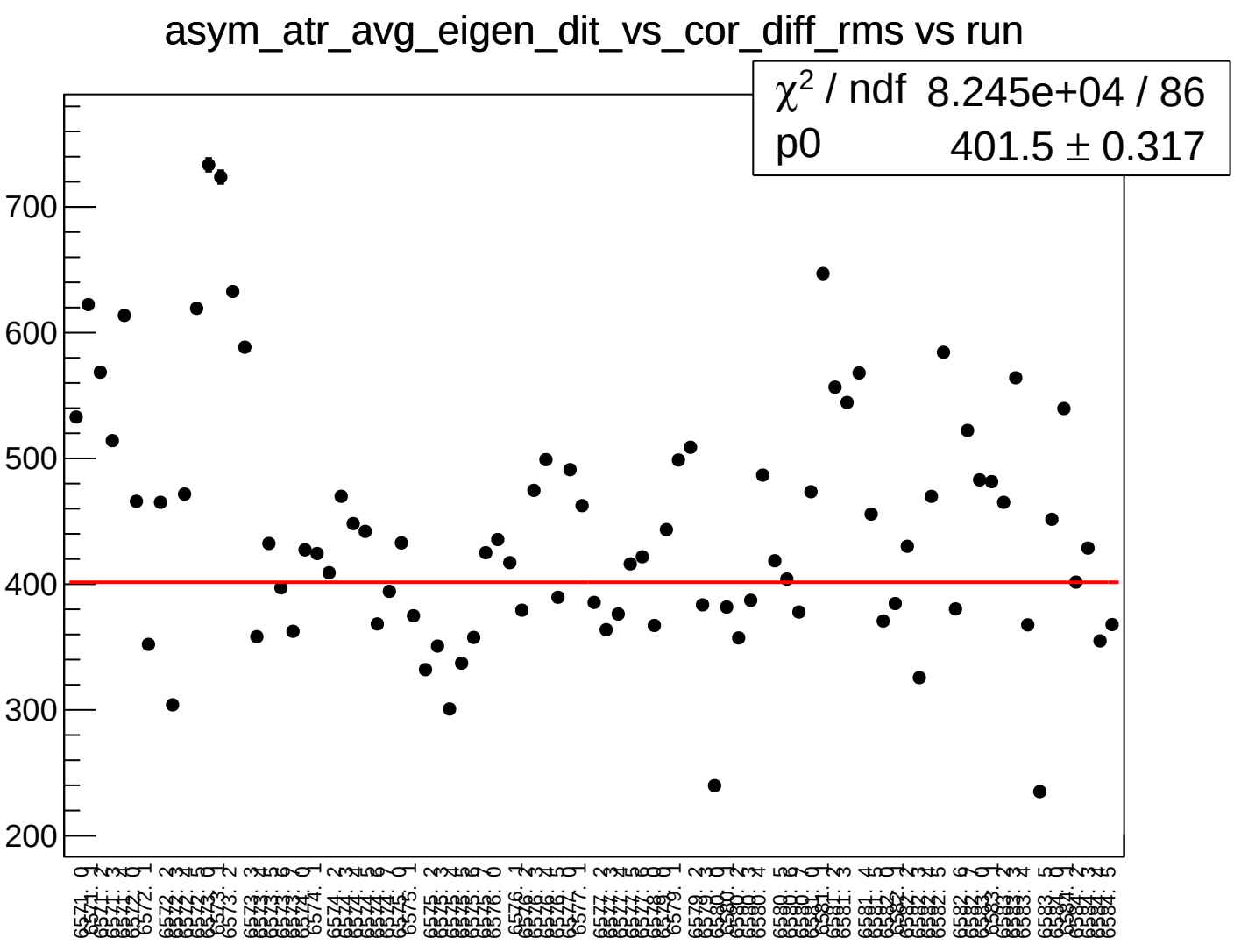

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.245e+04 / 86
p0 401.5 ± 0.317
700
600
500
400
300
200

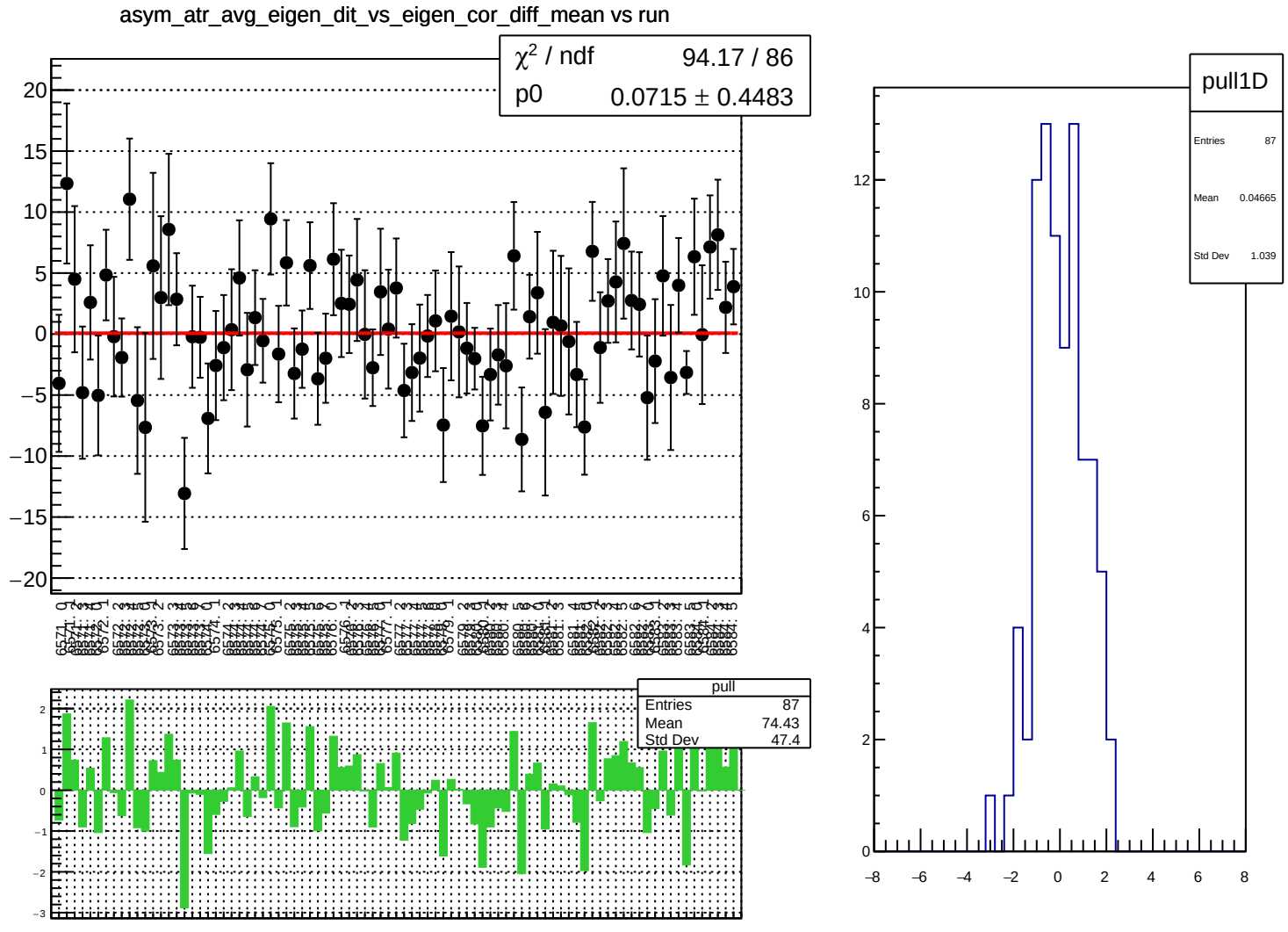

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.17 / 86
p0 −6.036e−06 ± 3.173e−06
pull
Entries 87
Mean 49.34
Std Dev 58.36

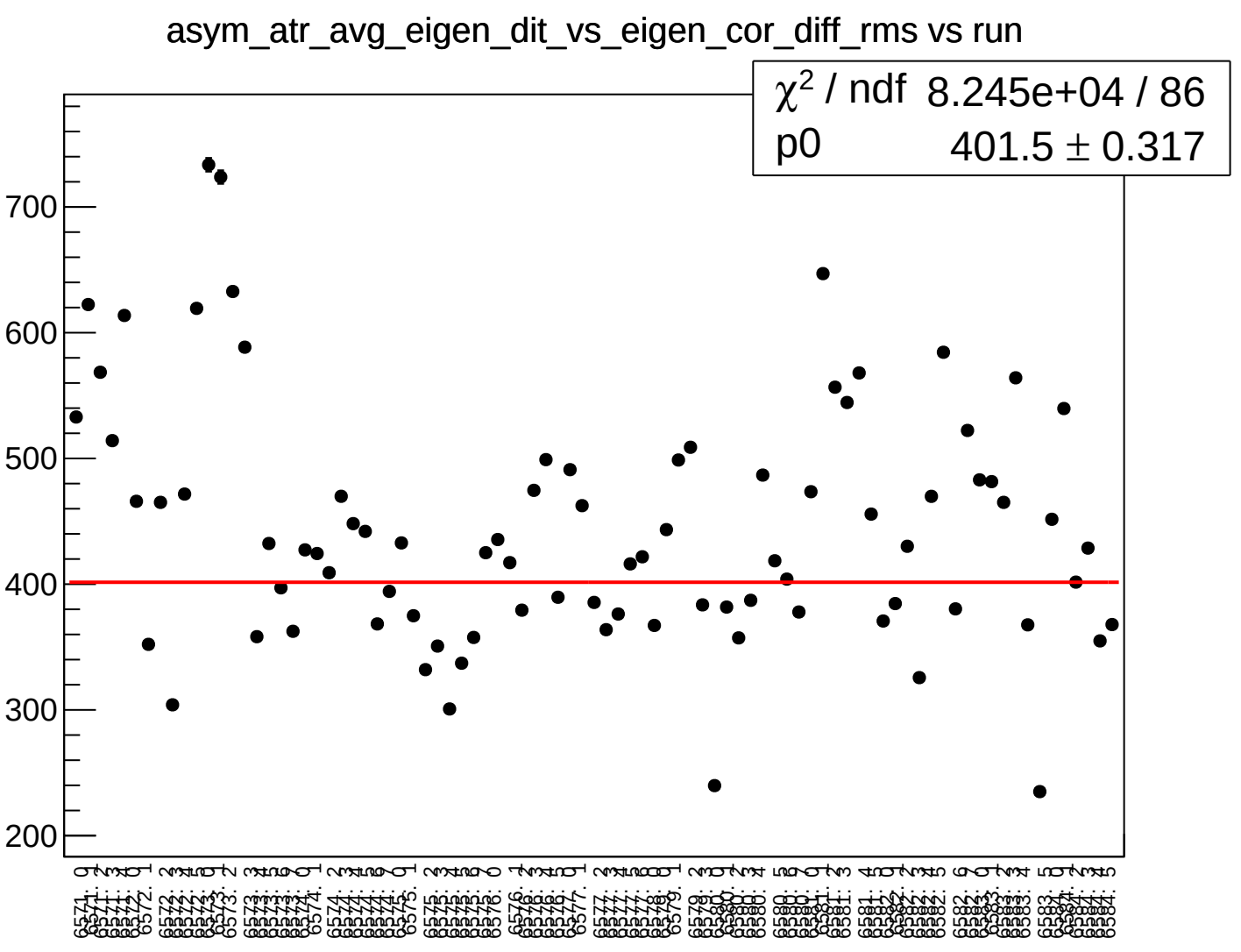

pull1D
Entries 87
Mean −0.006089
Std Dev 1.035

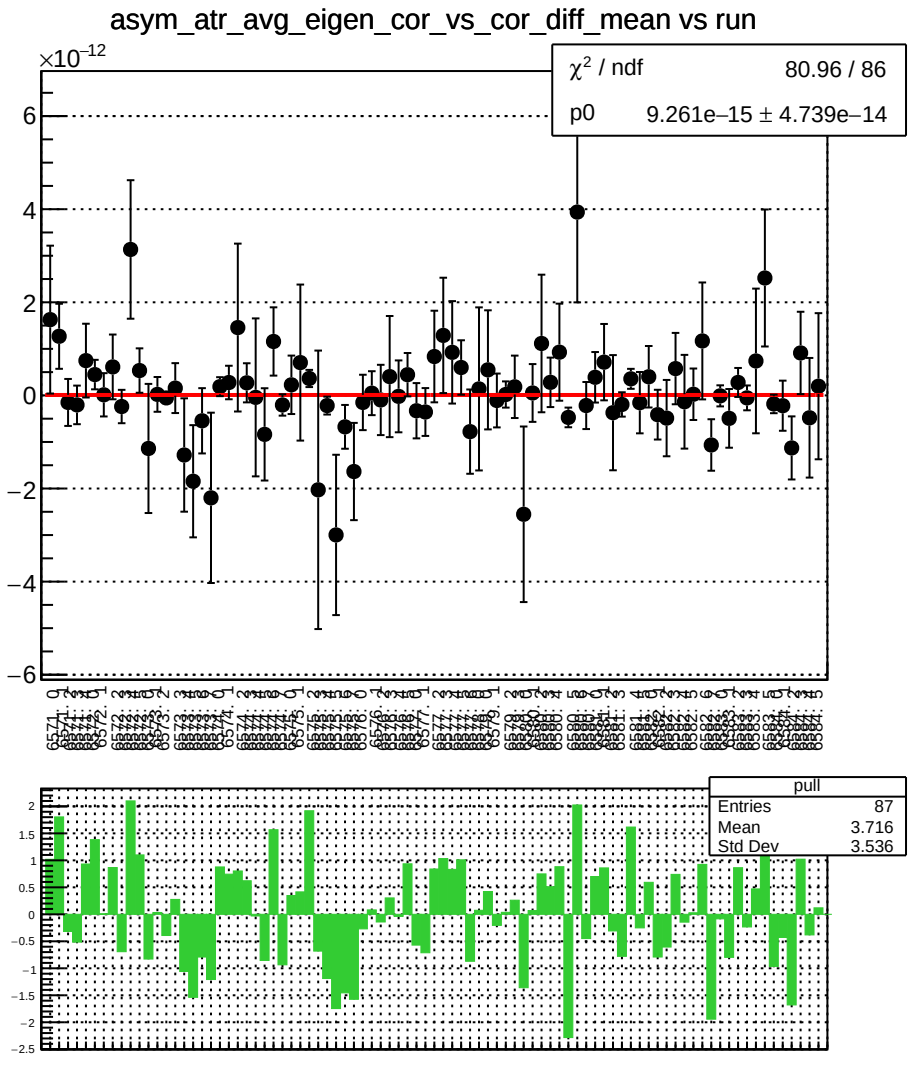

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4450 / 86
p0 0.00291 ± 2.244e–06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026

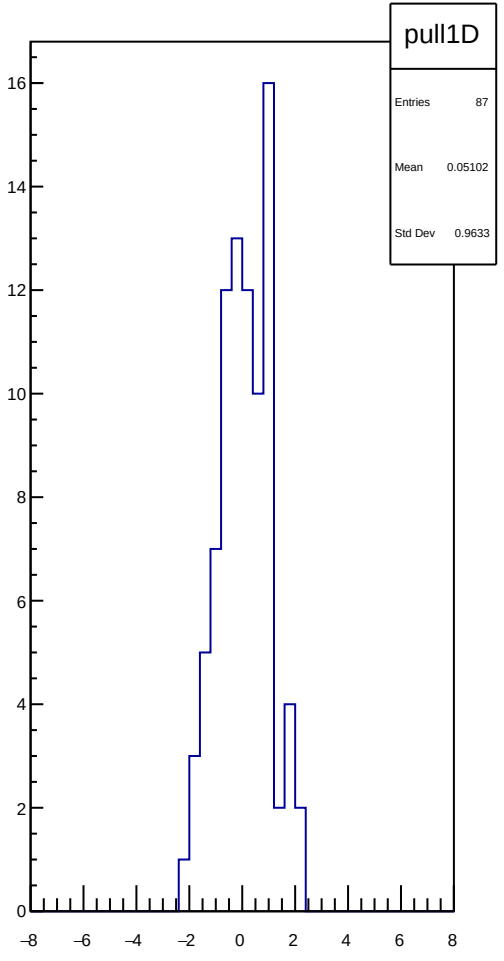

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.17 / 86
p0 0.0715 ± 0.4483
pull
Entries 87
Mean 74.43
Std Dev 47.4
pull1D
Entries 87
Mean 0.04665
Std Dev 1.039

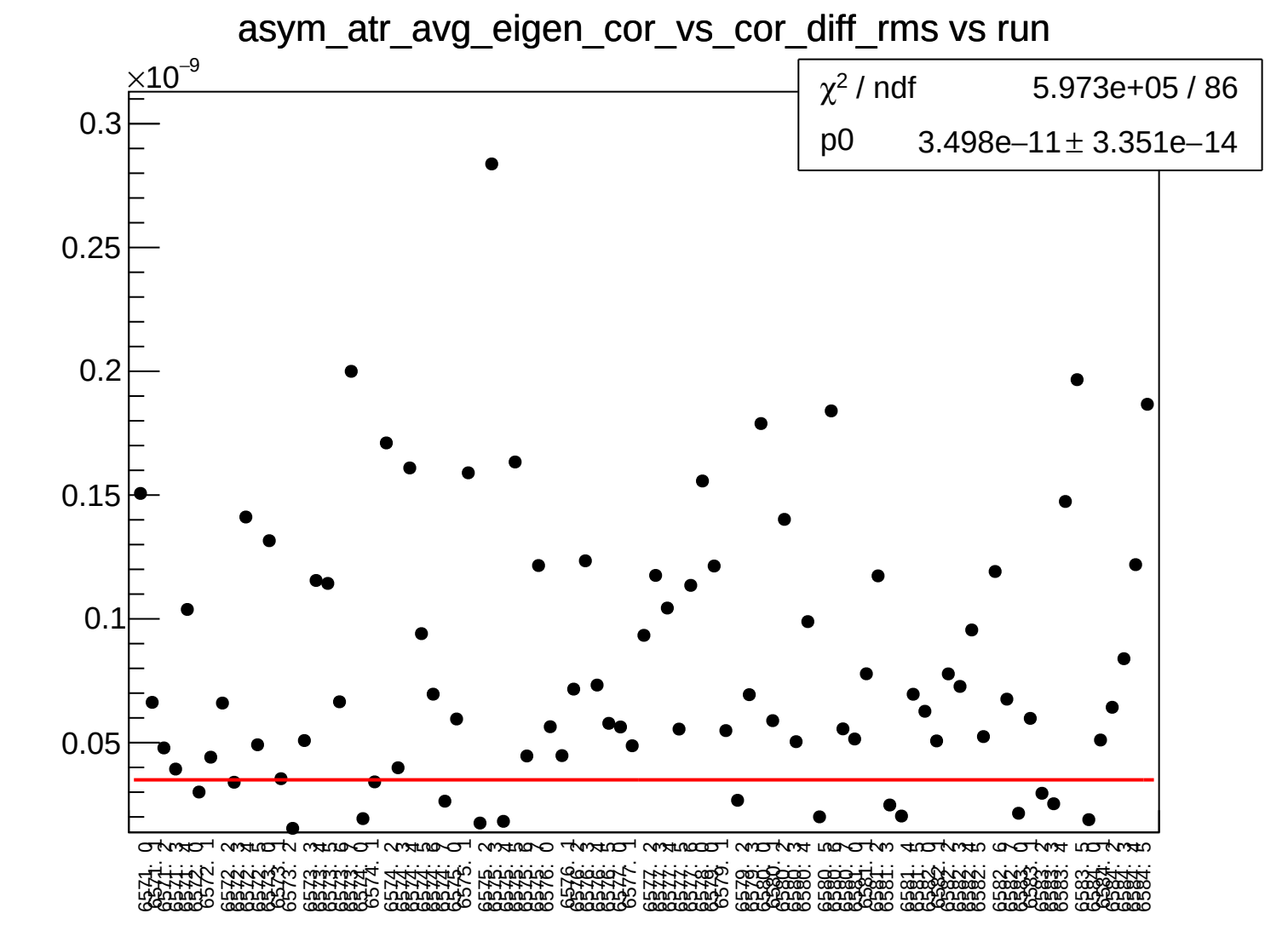

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.245e+04 / 86
p0 401.5 ± 0.317
700
600
500
400
300
200

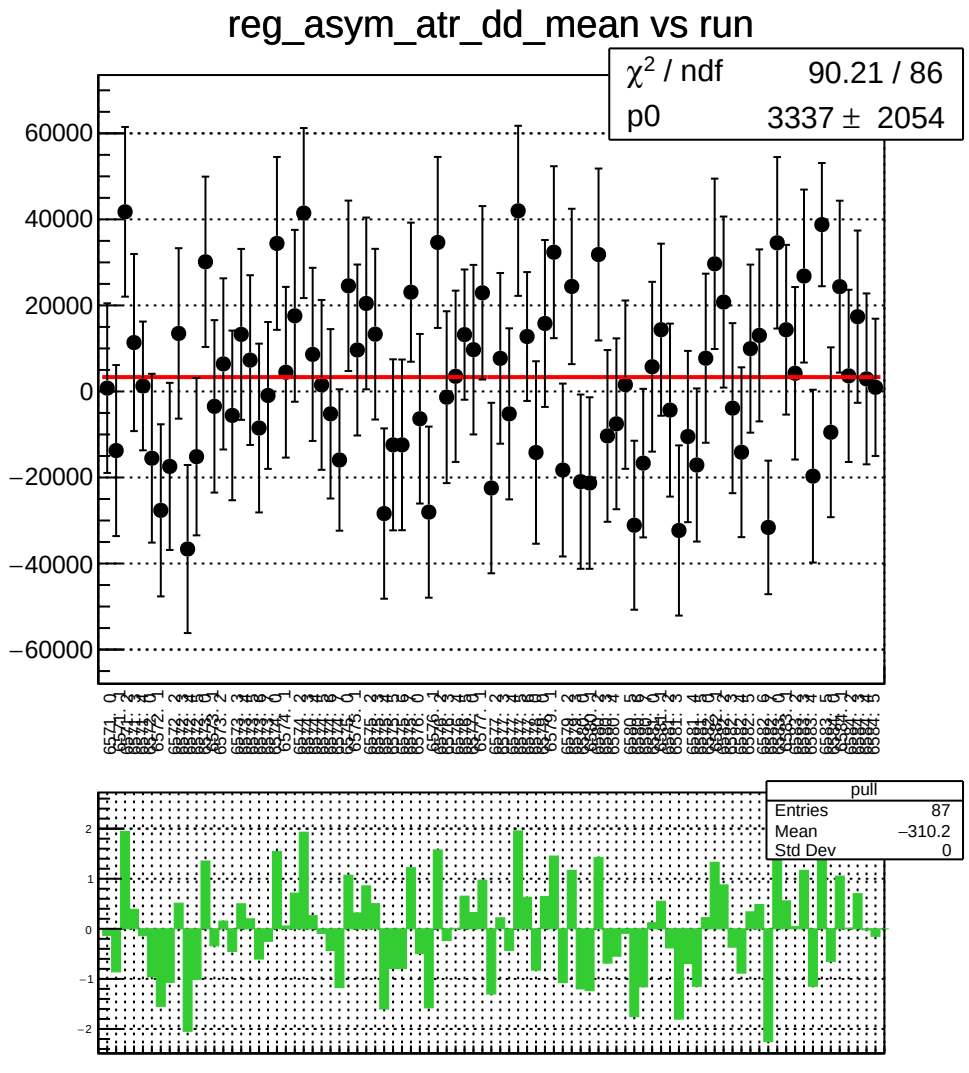

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.17 / 86
p0 0.0715 ± 0.4483
pull
Entries 87
Mean 74.43
Std Dev 47.4
pull1D
Entries 87
Mean 0.04665
Std Dev 1.039

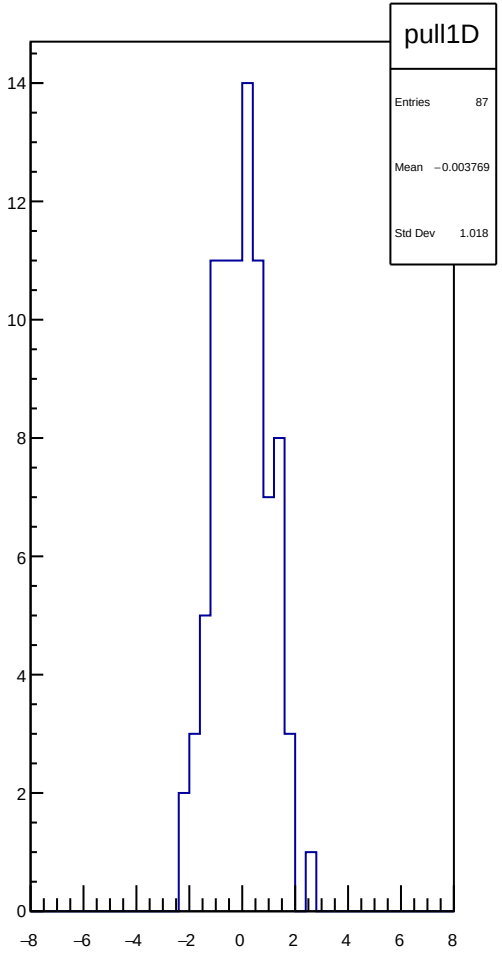

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.245e+04 / 86
p0 401.5 ± 0.317
700
600
500
400
300
200

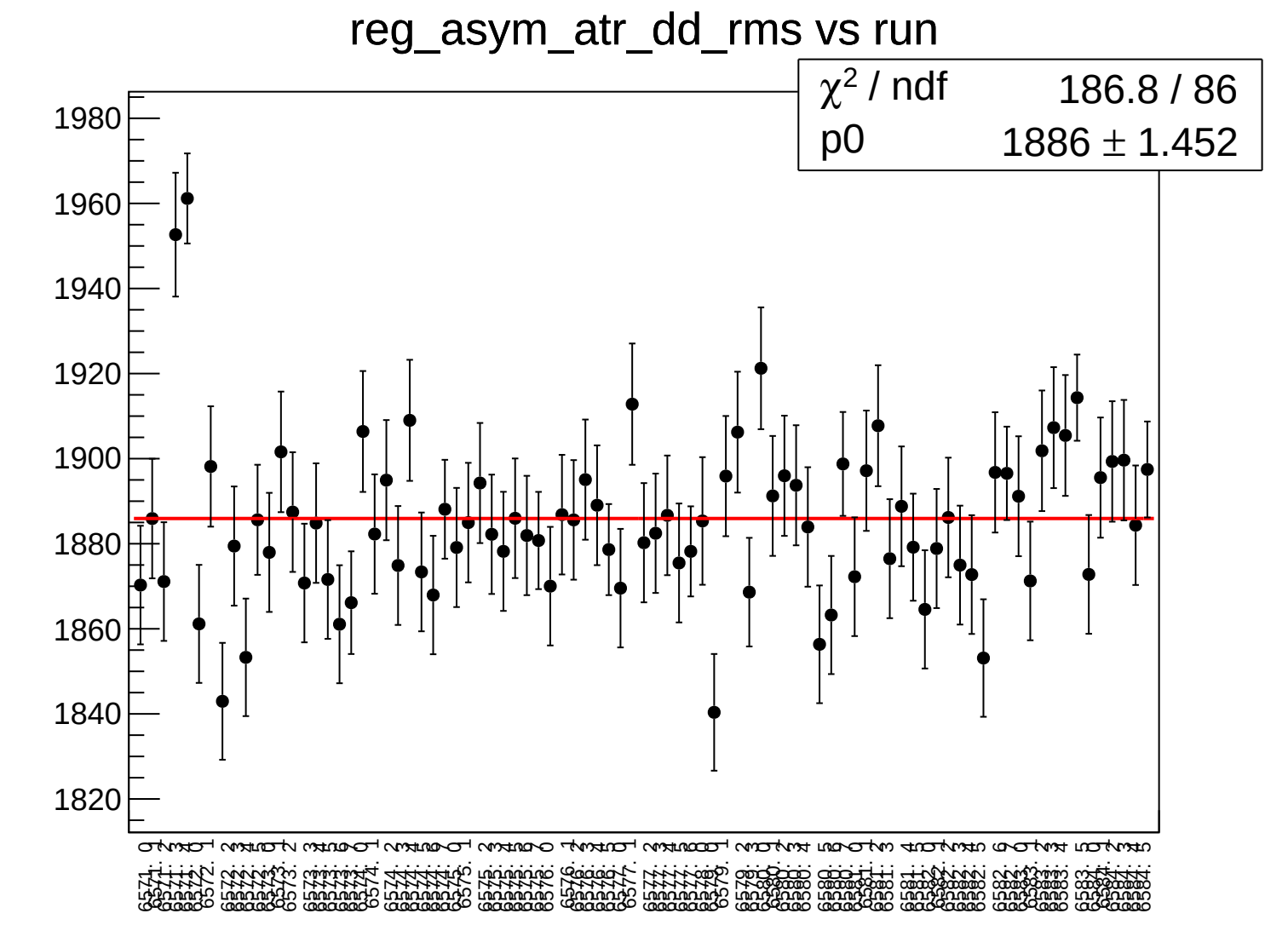

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.96 / 86
p0 9.261e−15 ± 4.739e−14
pull
Entries 87
Mean 3.716
Std Dev 3.536

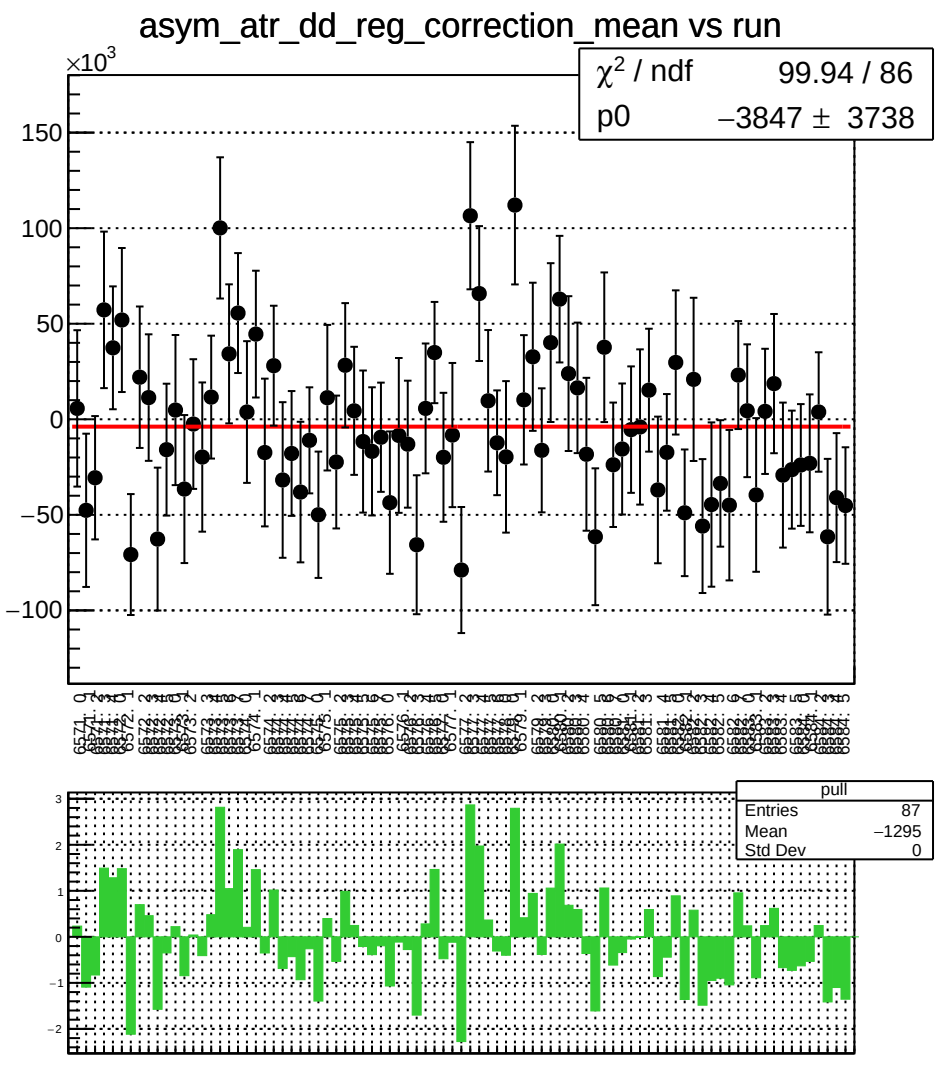

pull1D
Entries 87
Mean 0.05102
Std Dev 0.9633

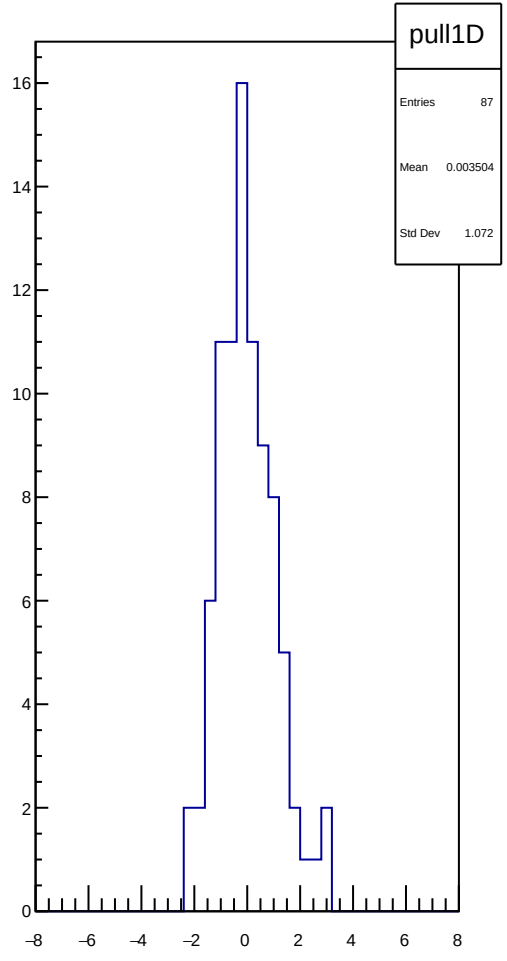

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.973e+05 / 86
p0 3.498e−11 ± 3.351e−14
0.3
0.25
0.2
0.15
0.1
0.05

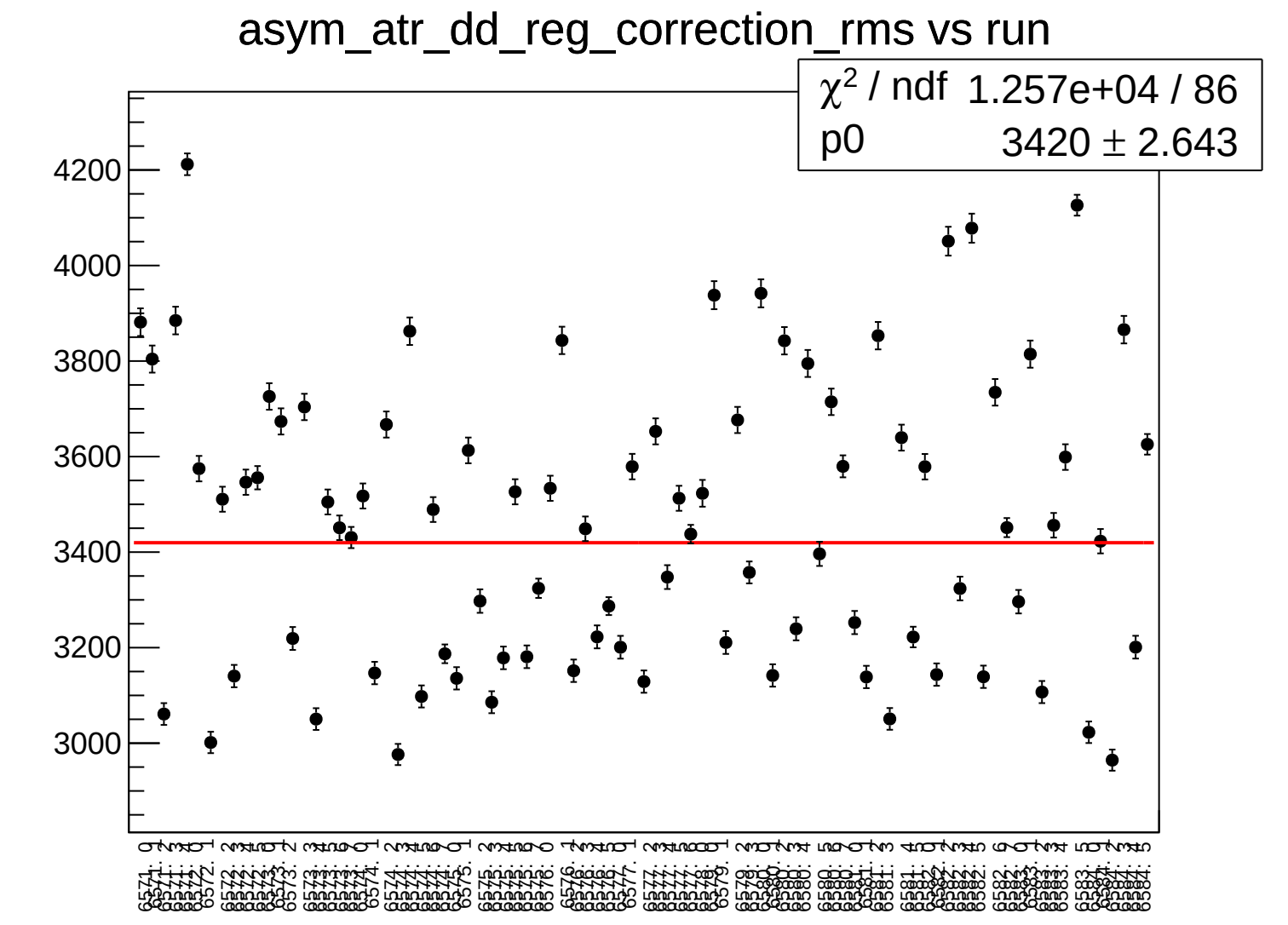

reg_asym_atr_dd_mean vs run
χ² / ndf 90.21 / 86
p0 3337 ± 2054
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −310.2
Std Dev 0
2
1
0
−1
−2

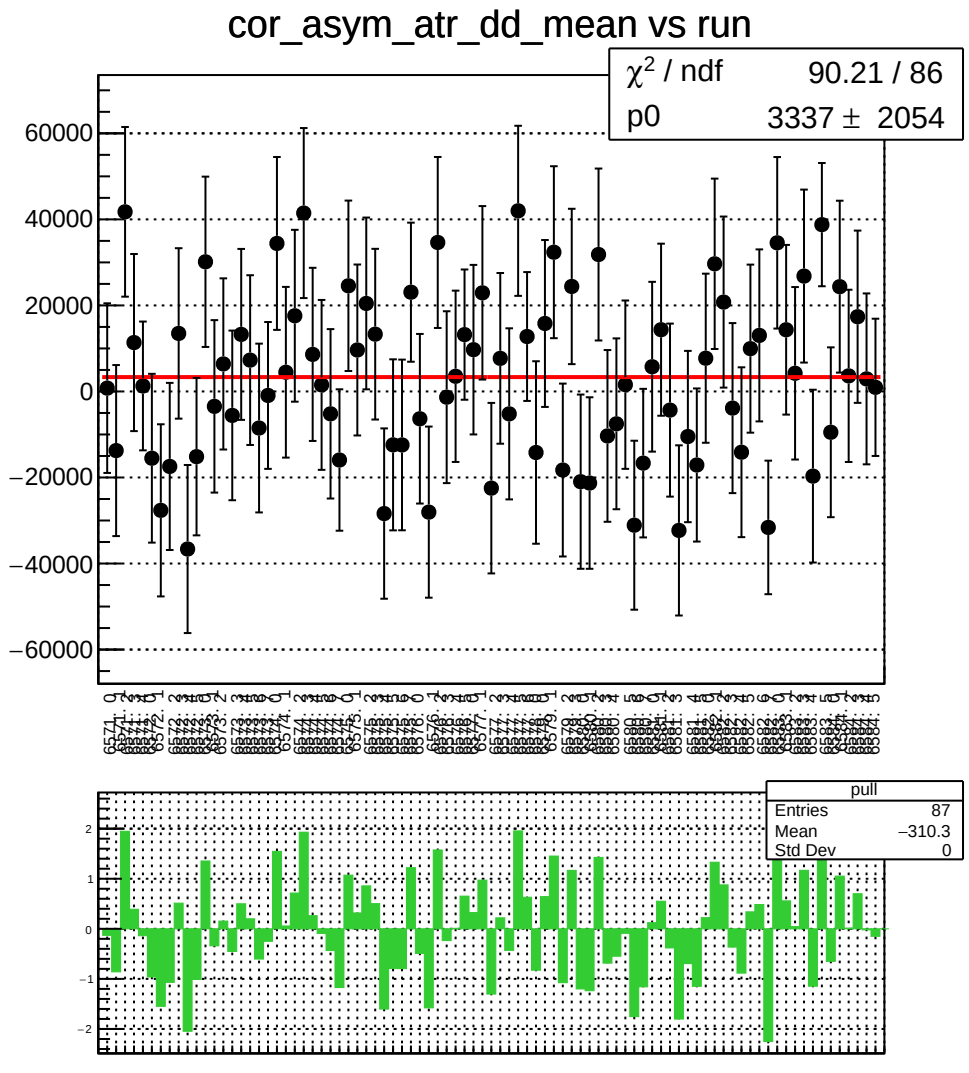

pull1D
Entries 87
Mean −0.003769
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

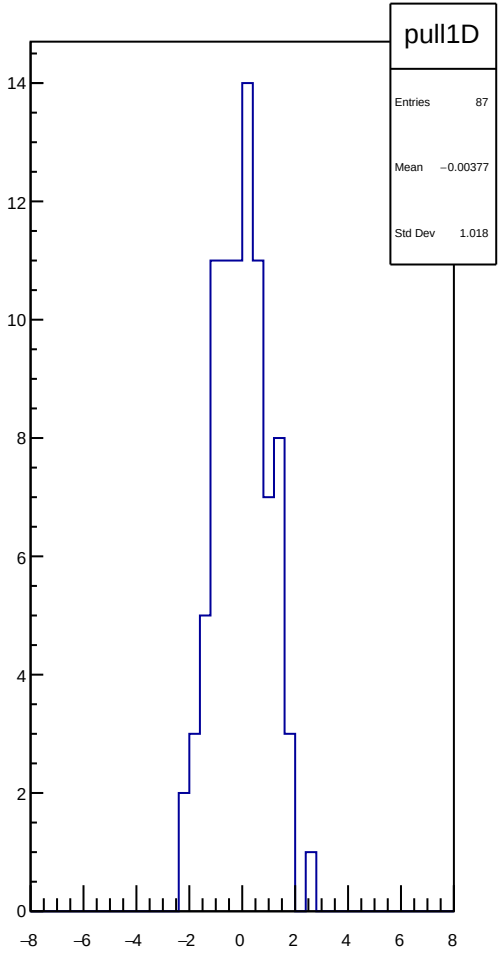

reg_asym_atr_dd_rms vs run
χ^2 / ndf 186.8 / 86
p0 1886 ± 1.452
1980
1960
1940
1920
1900
1880
1860
1840
1820

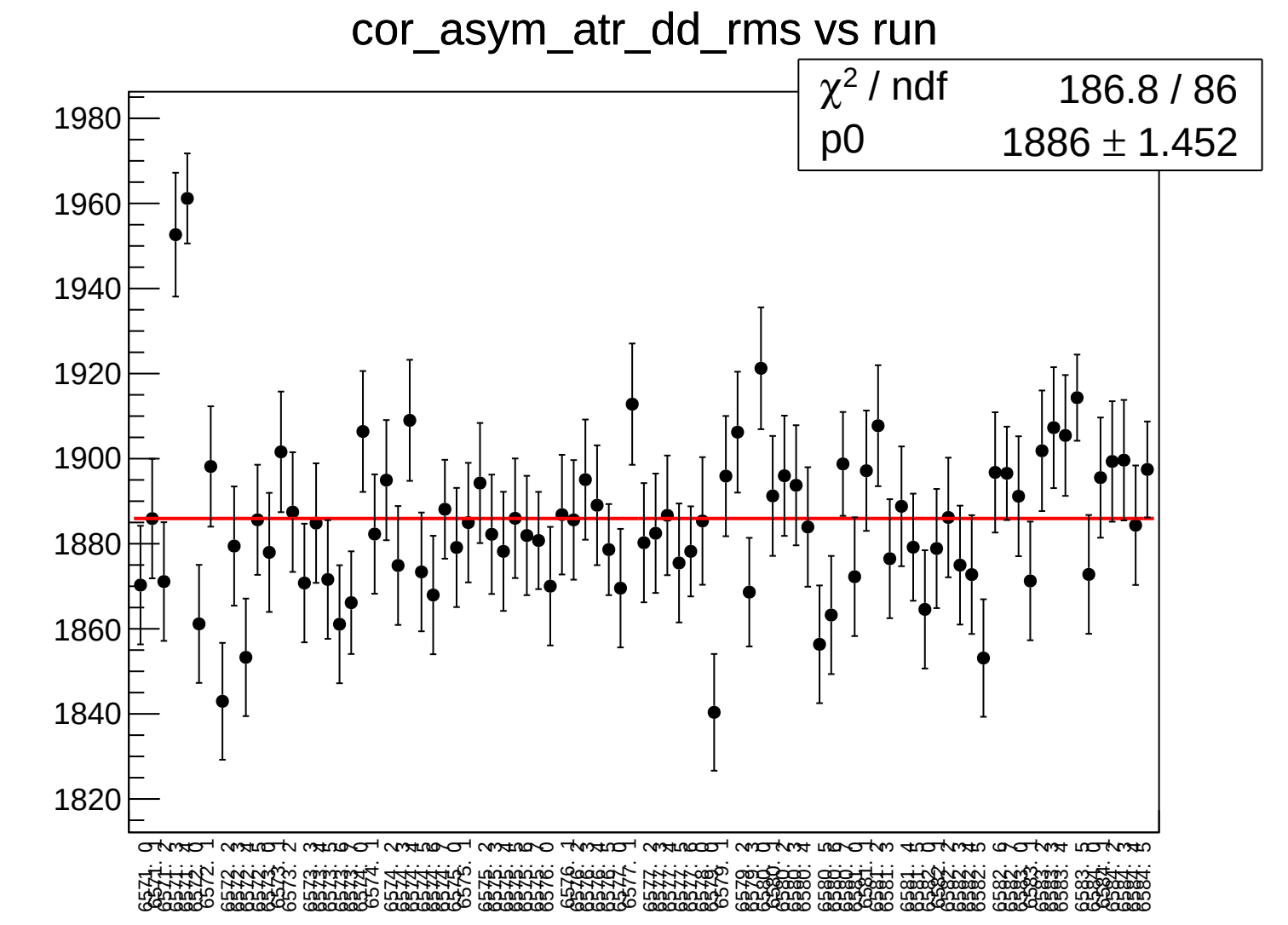

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 99.94 / 86
p0 −3847 ± 3738
150
100
50
0
−50
−100
pull
Entries 87
Mean −1295
Std Dev 0
3
2
1
0
−1
−2

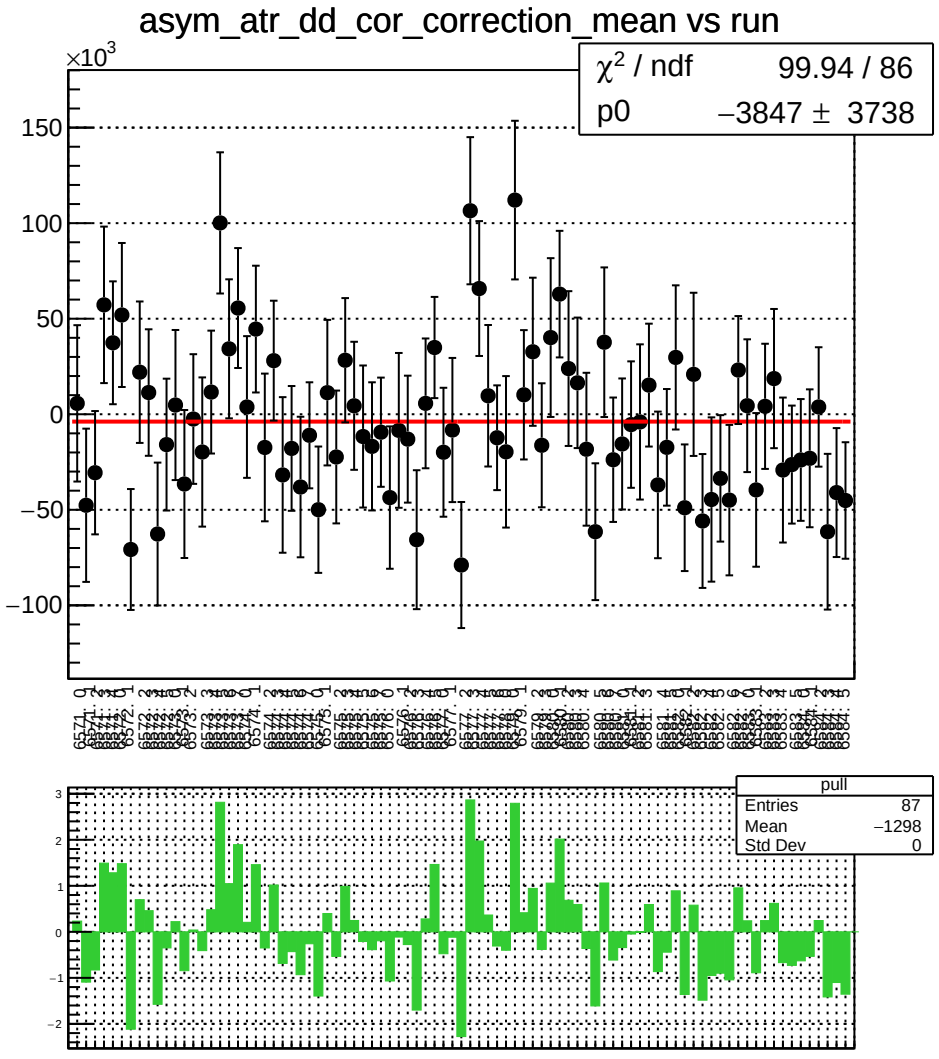

pull1D
Entries 87
Mean 0.003504
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

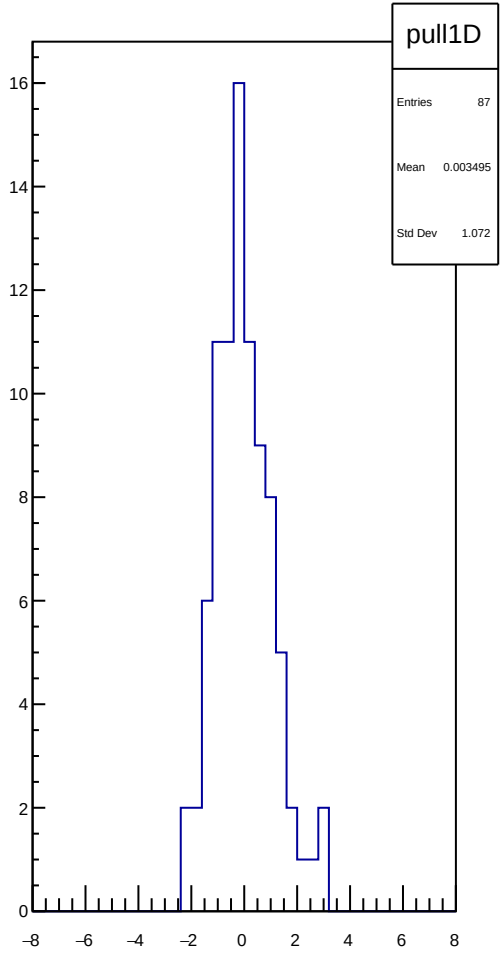

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.257e+04 / 86
p0 3420 ± 2.643
4200
4000
3800
3600
3400
3200
3000

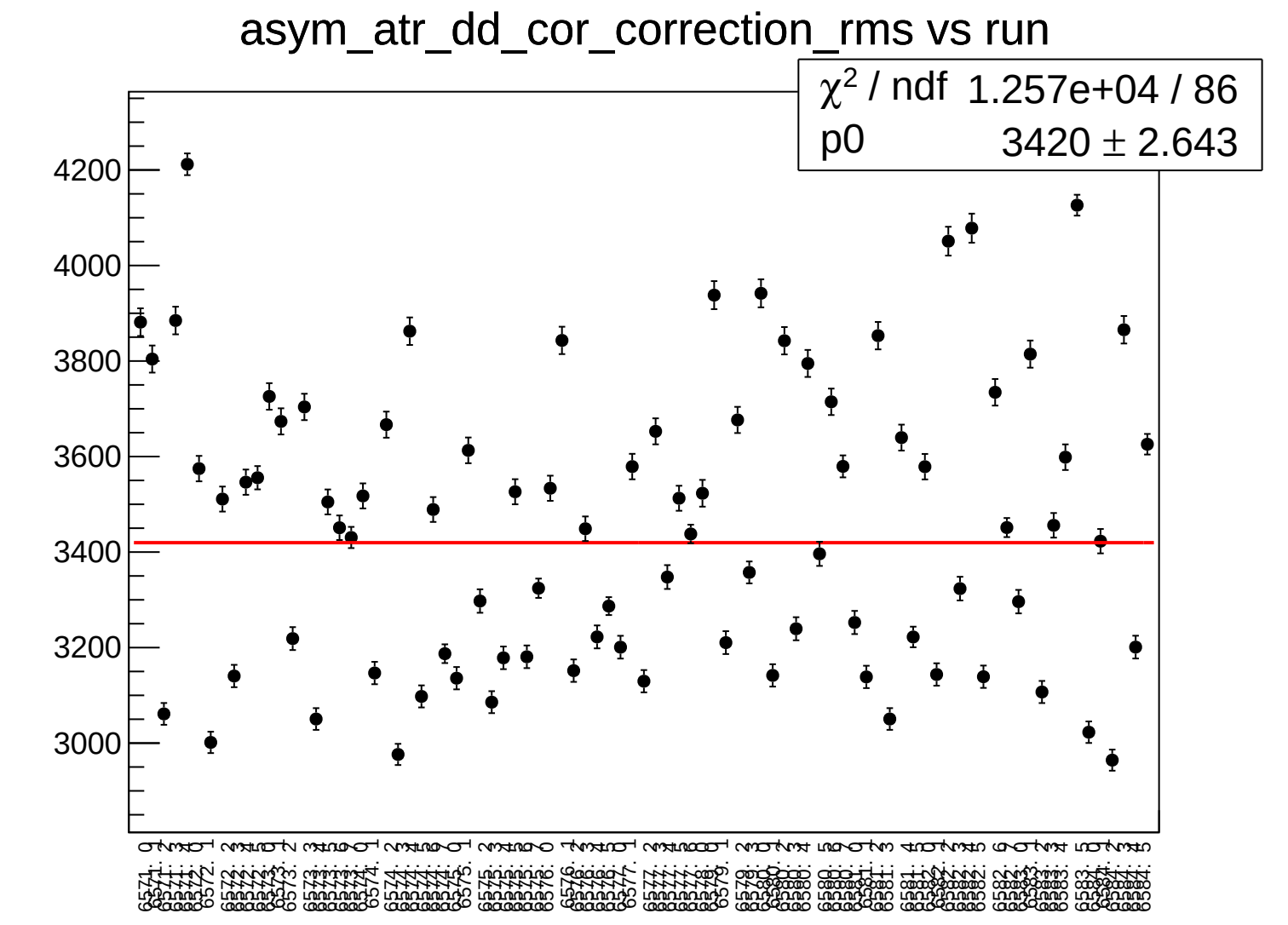

cor_asym_atr_dd_mean vs run
χ² / ndf 90.21 / 86
p0 3337 ± 2054
pull
Entries 87
Mean −310.3
Std Dev 0

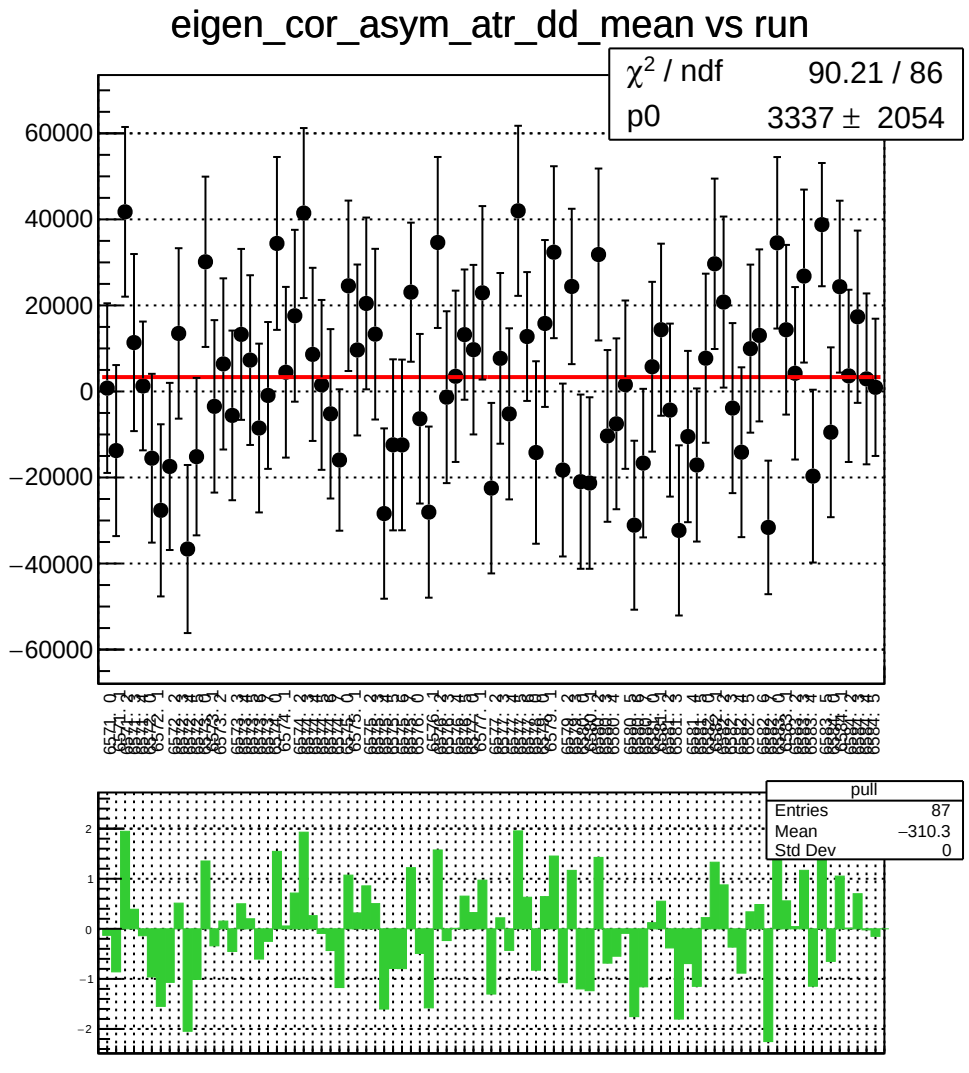

pull1D
Entries 87
Mean −0.00377
Std Dev 1.018

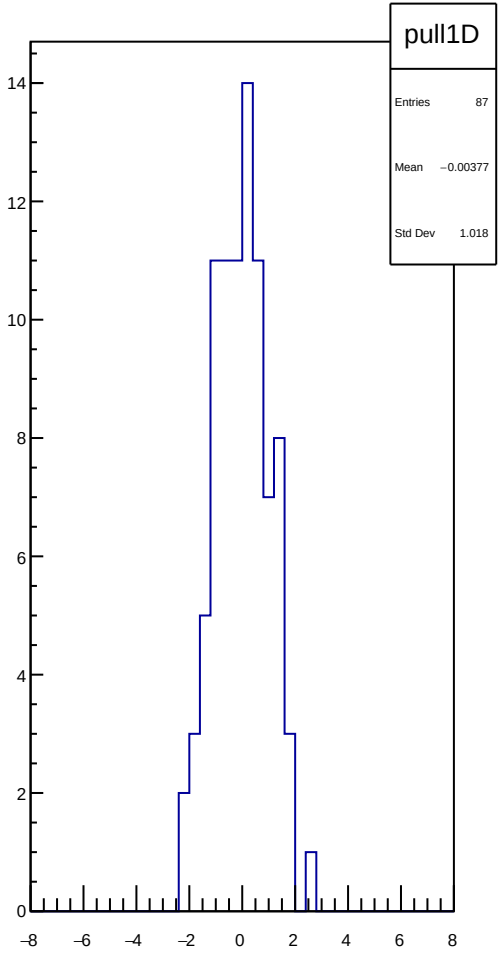

cor_asym_atr_dd_rms vs run
χ^2 / ndf 186.8 / 86
p0 1886 ± 1.452
1980
1960
1940
1920
1900
1880
1860
1840
1820

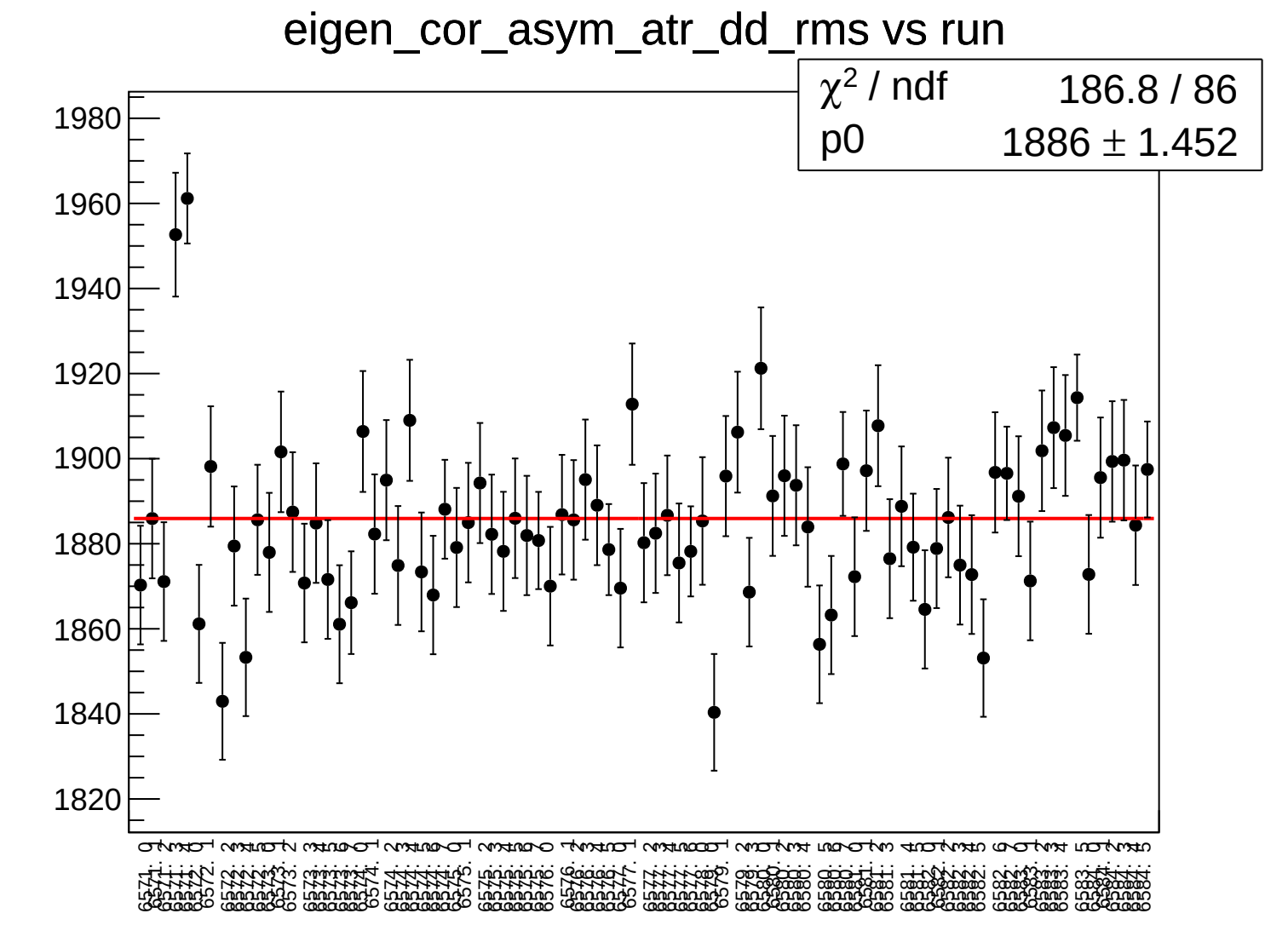

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 99.94 / 86
p0 −3847 ± 3738
×10³
150
100
50
0
−50
−100
pull
Entries 87
Mean −1298
Std Dev 0
3
2
1
0
−1
−2

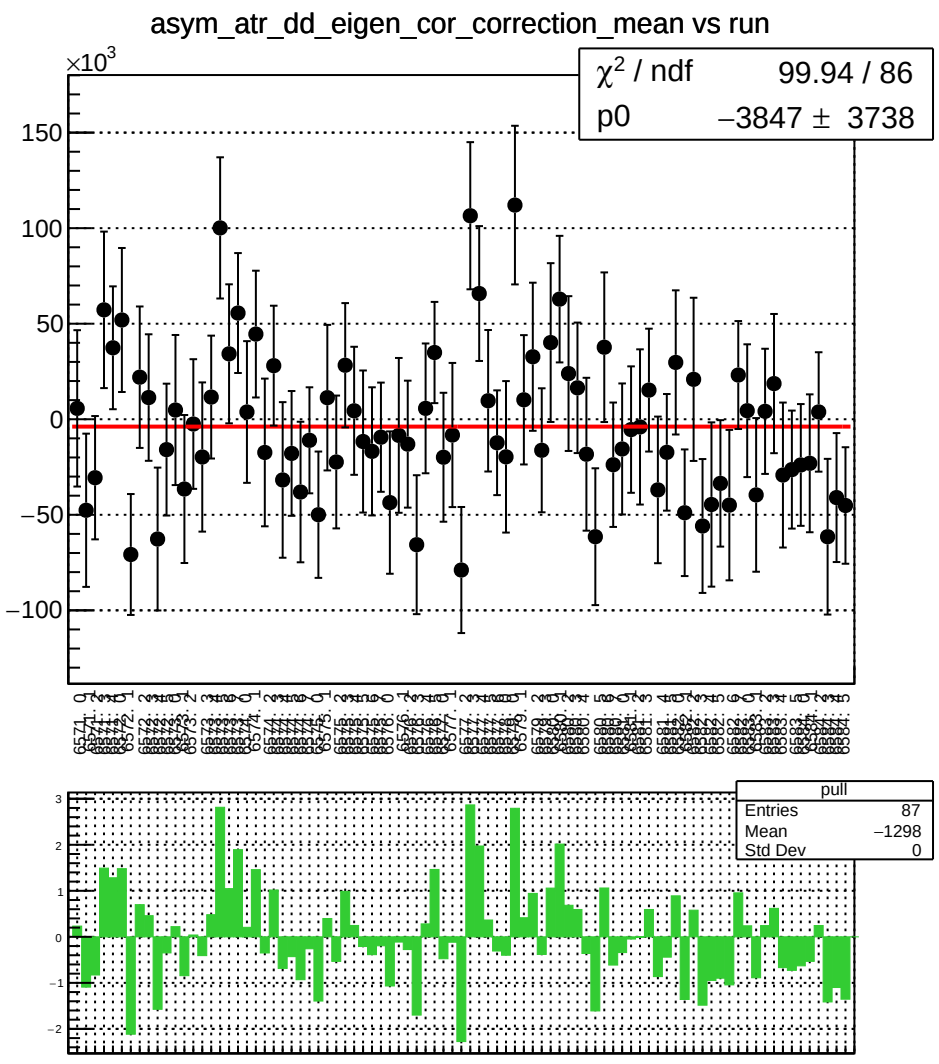

pull1D
Entries 87
Mean 0.003495
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

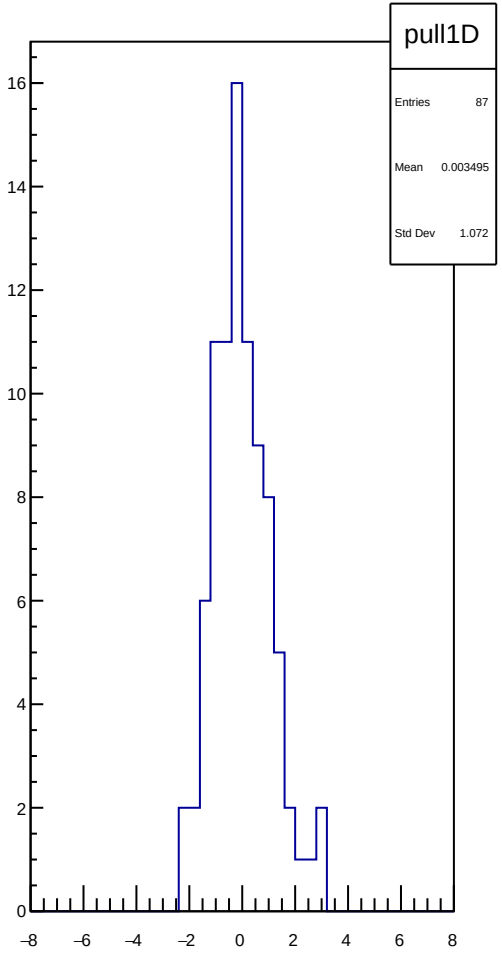

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.257e+04 / 86
p0 3420 ± 2.643
4200
4000
3800
3600
3400
3200
3000

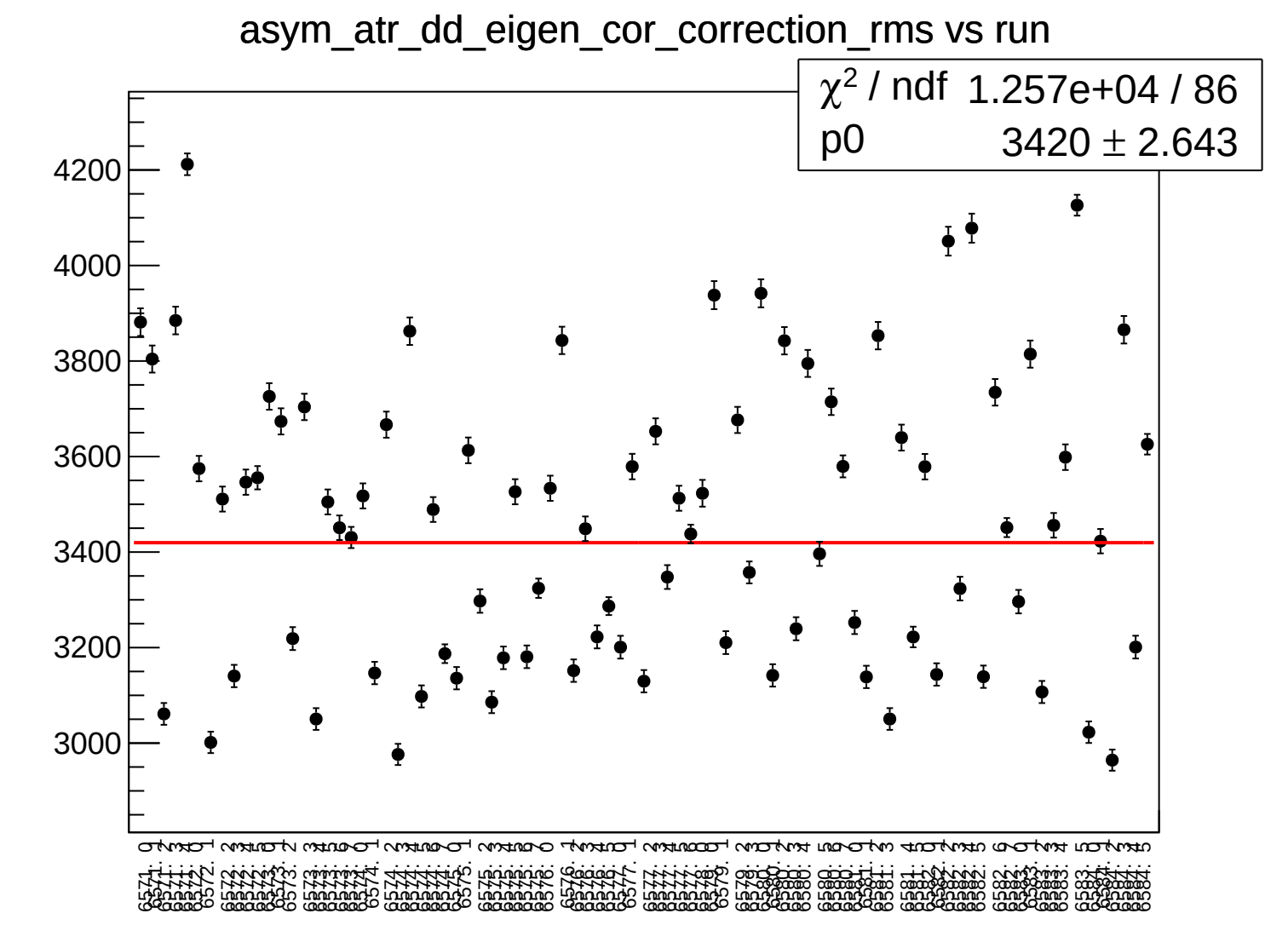

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 90.21 / 86
p0 3337 ± 2054
pull
Entries 87
Mean −310.3
Std Dev 0

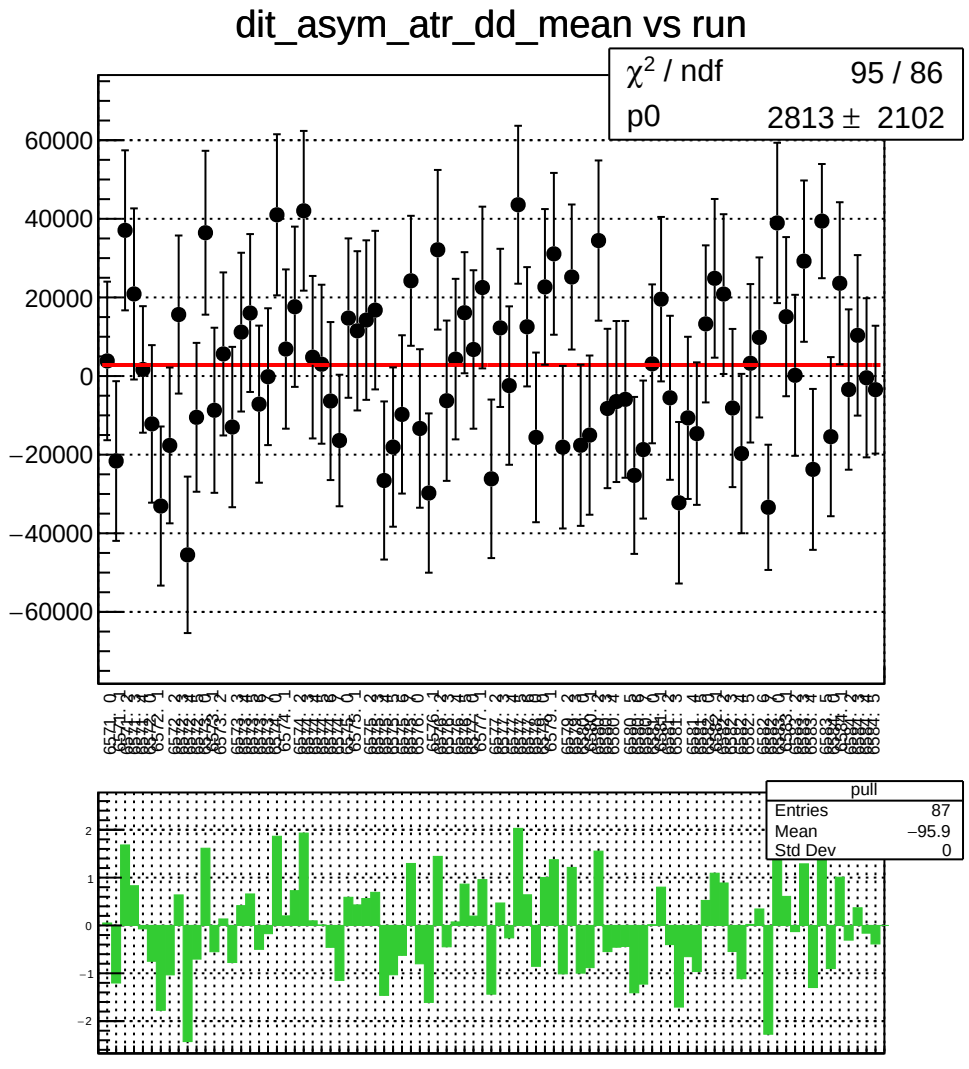

pull1D
Entries 87
Mean −0.00377
Std Dev 1.018

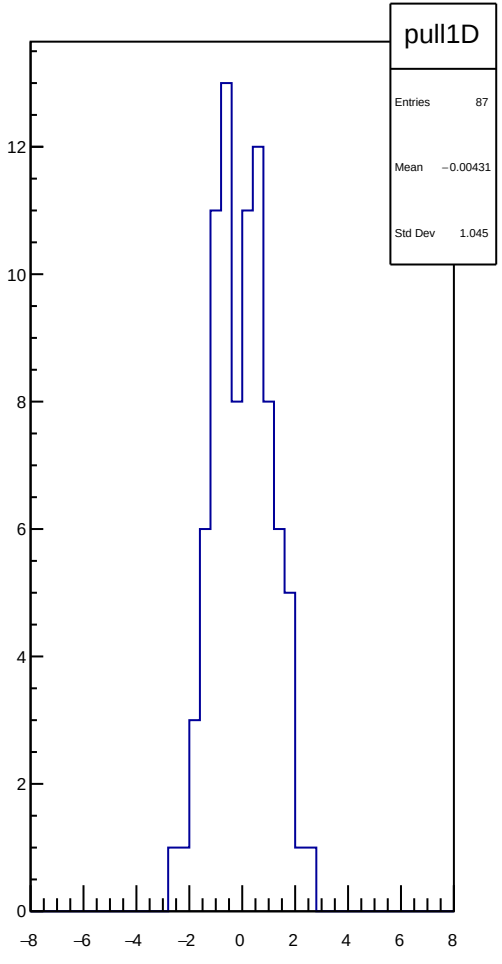

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 186.8 / 86
p0 1886 ± 1.452
1980
1960
1940
1920
1900
1880
1860
1840
1820

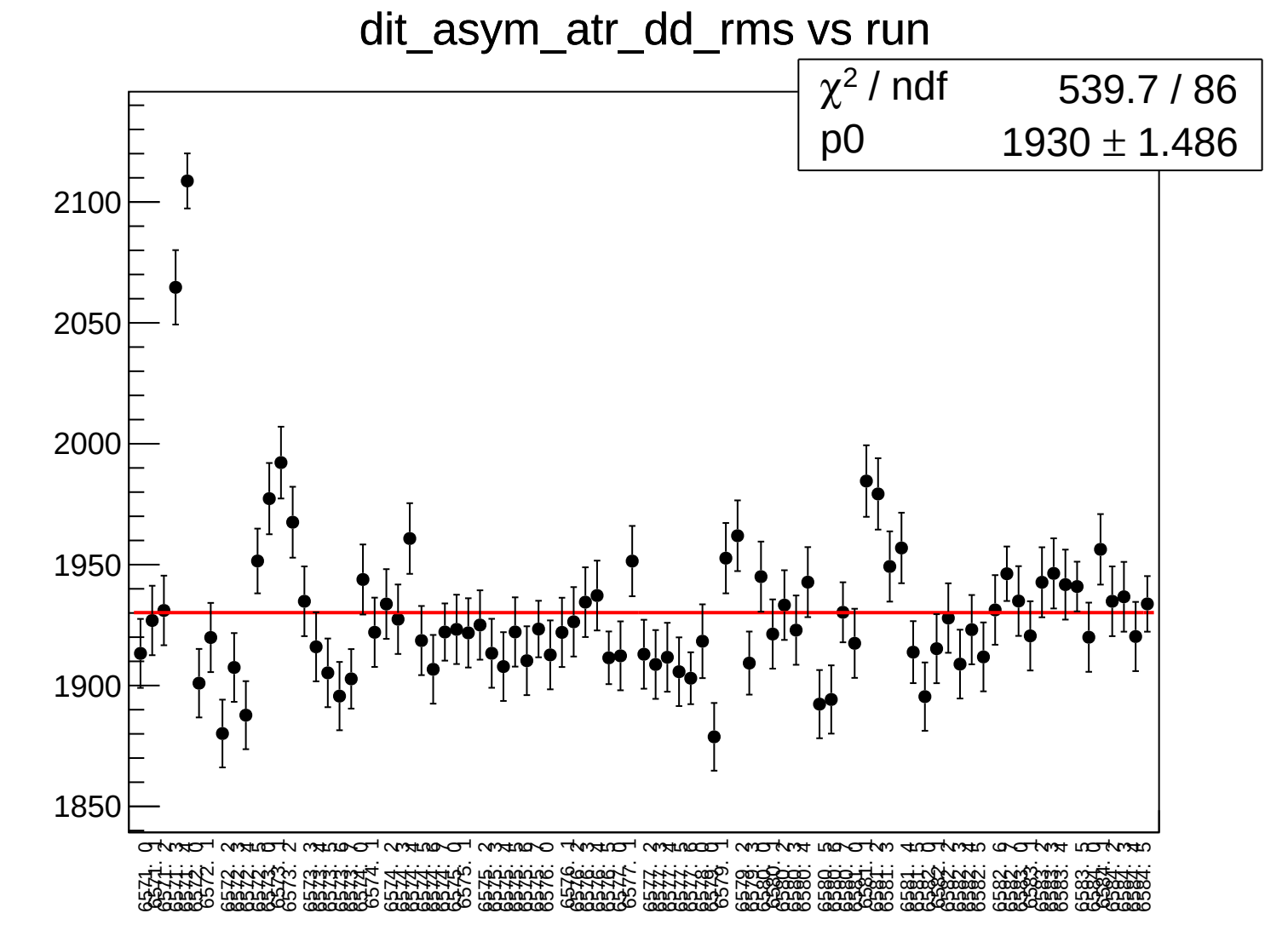

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 99.94 / 86
p0 −3847 ± 3738
150
100
50
0
−50
−100
pull
Entries 87
Mean −1298
Std Dev 0
3
2
1
0
−1
−2

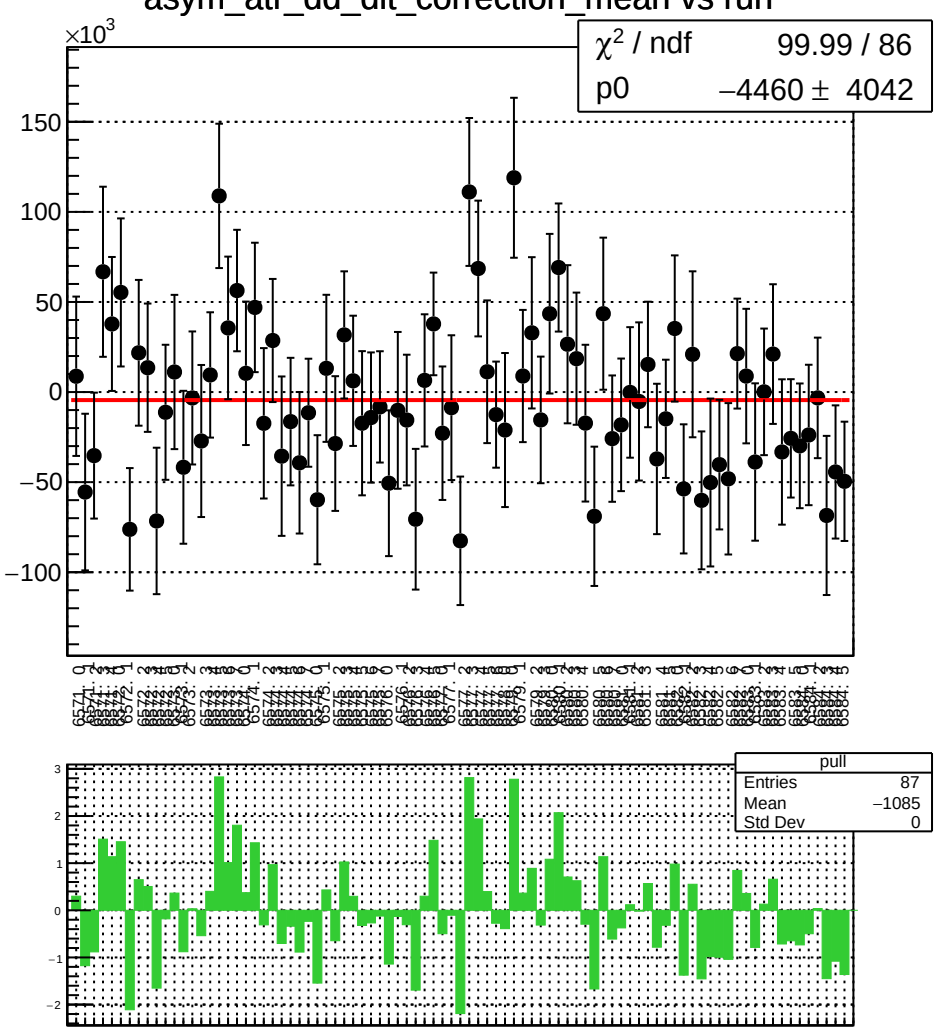

pull1D
Entries 87
Mean 0.003495
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

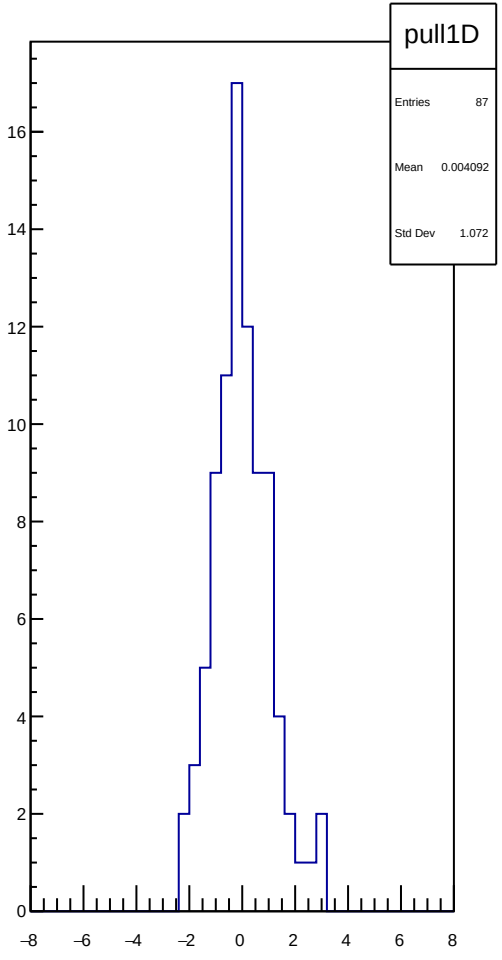

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.257e+04 / 86
p0 3420 ± 2.643
4200
4000
3800
3600
3400
3200
3000

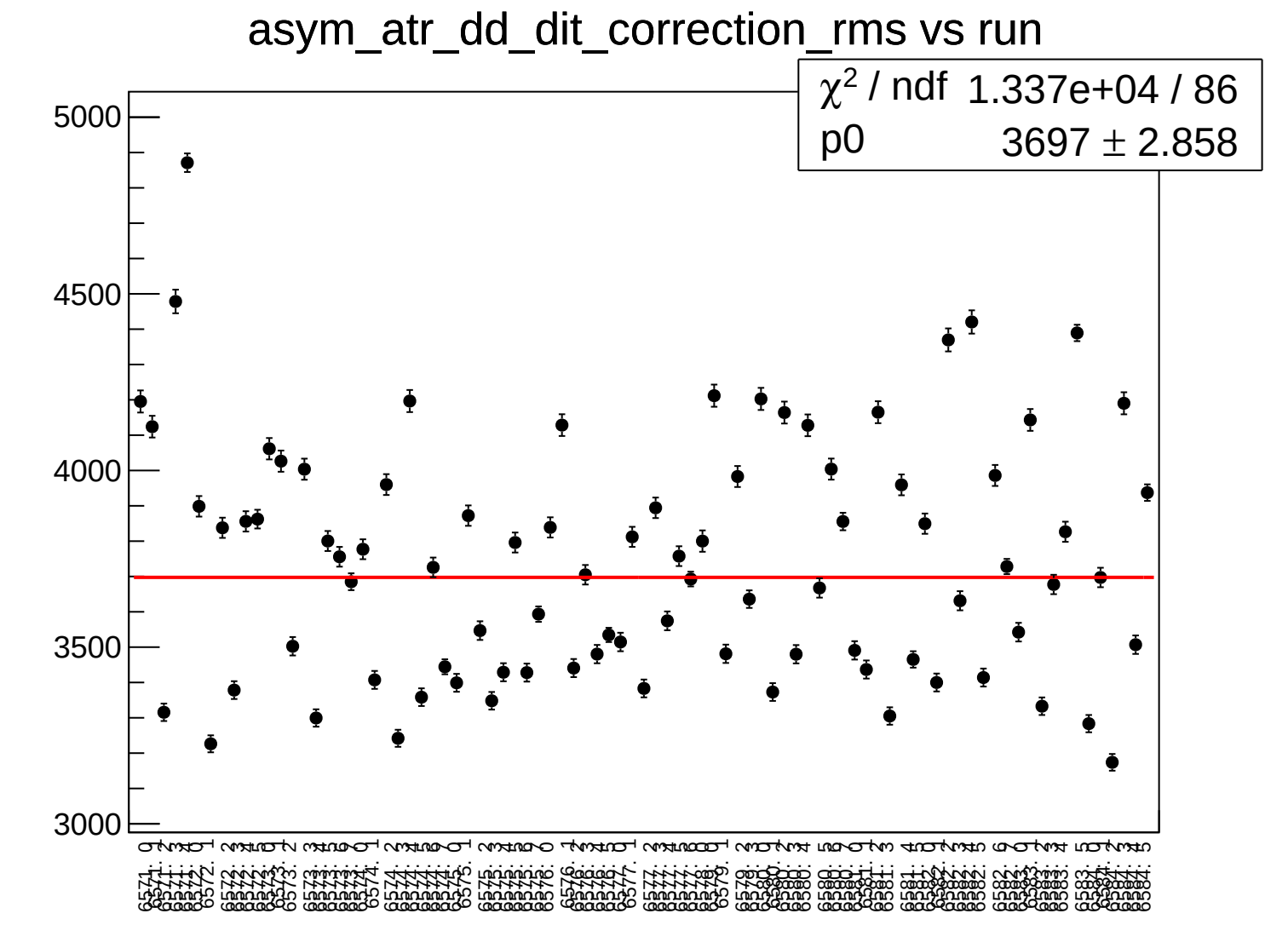

dit_asym_atr_dd_mean vs run
χ² / ndf 95 / 86
p0 2813 ± 2102
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −95.9
Std Dev 0
2
1
0
−1
−2

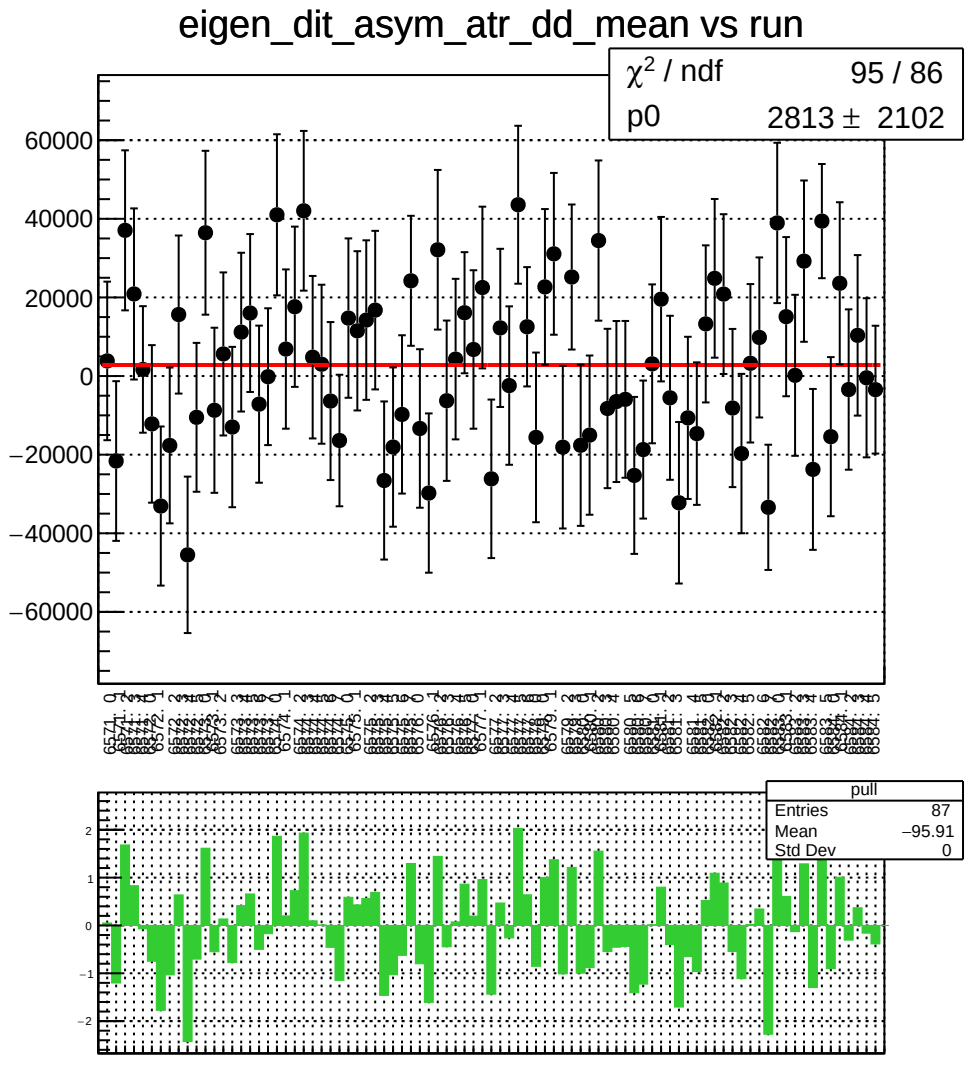

pull1D
Entries 87
Mean −0.00431
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

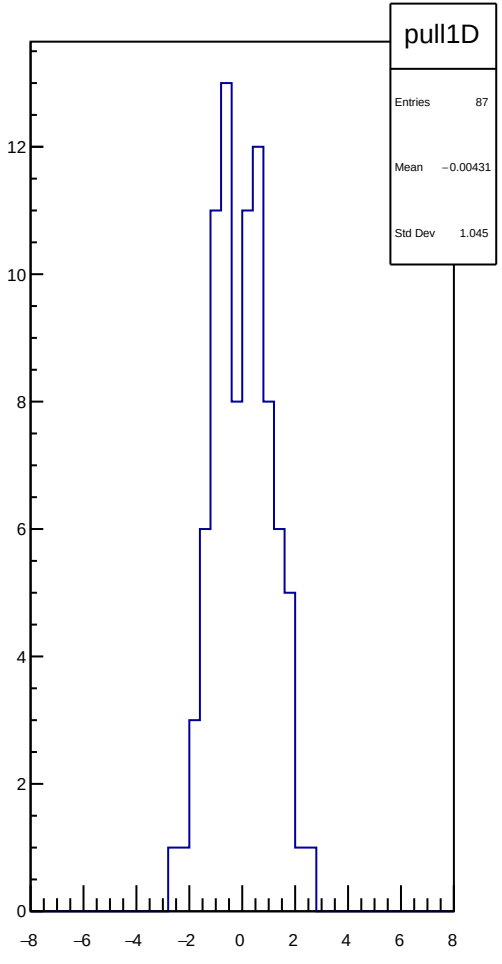

dit_asym_atr_dd_rms vs run
χ^2 / ndf 539.7 / 86
p0 1930 ± 1.486
2100
2050
2000
1950
1900
1850

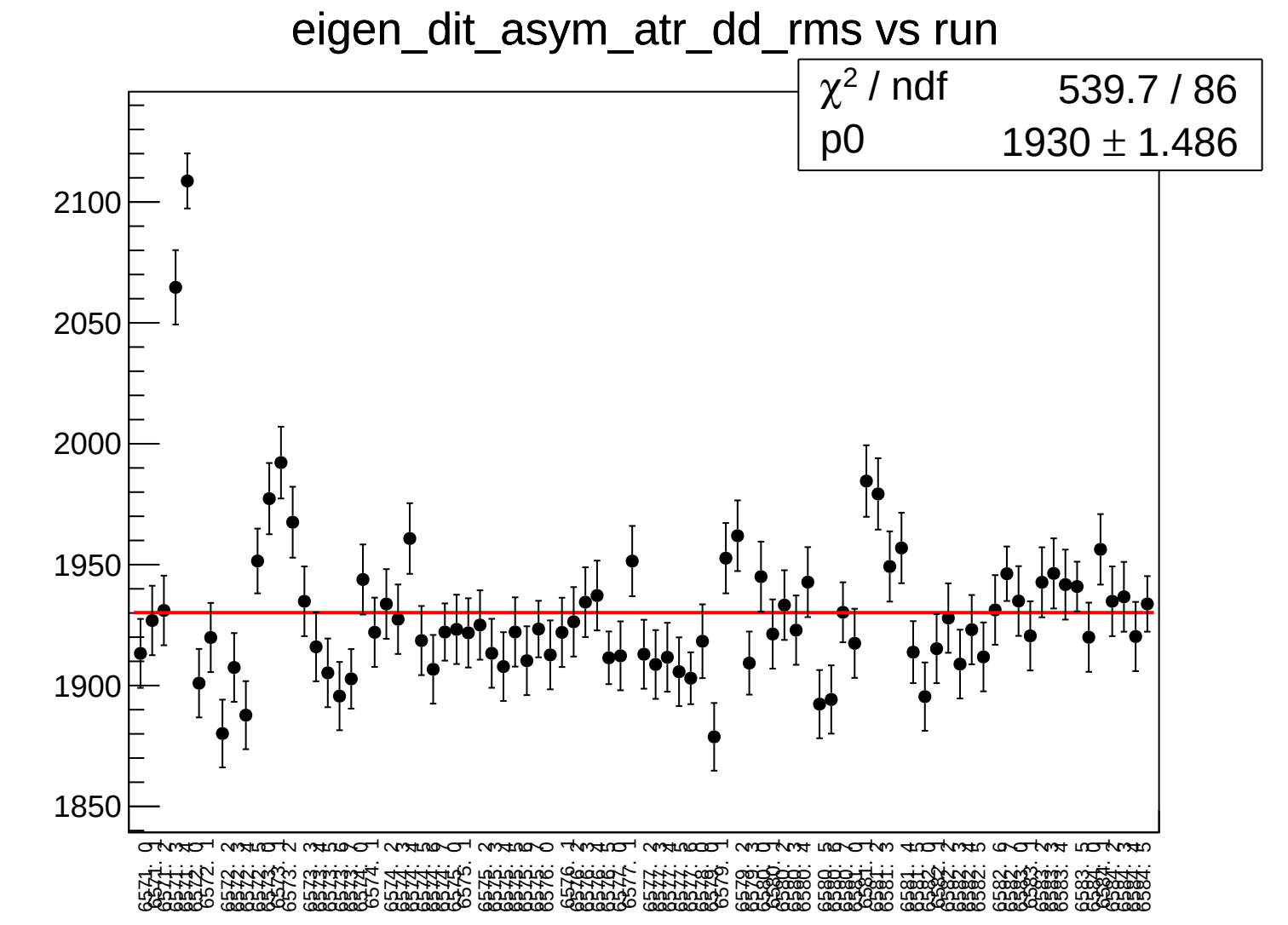

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 99.99 / 86
p0 −4460 ± 4042
×10³
150
100
50
0
−50
−100
pull
Entries 87
Mean −1085
Std Dev 0
3
2
1
0
−1
−2

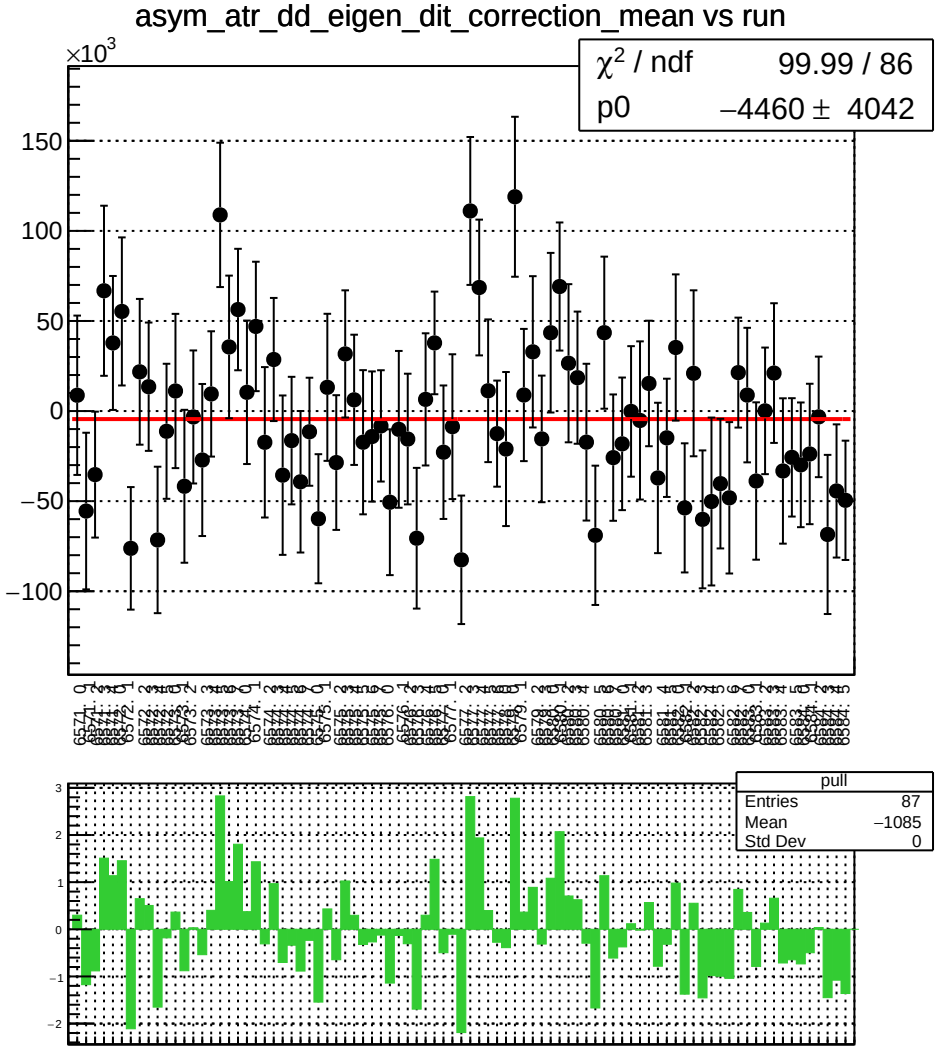

pull1D
Entries 87
Mean 0.004092
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

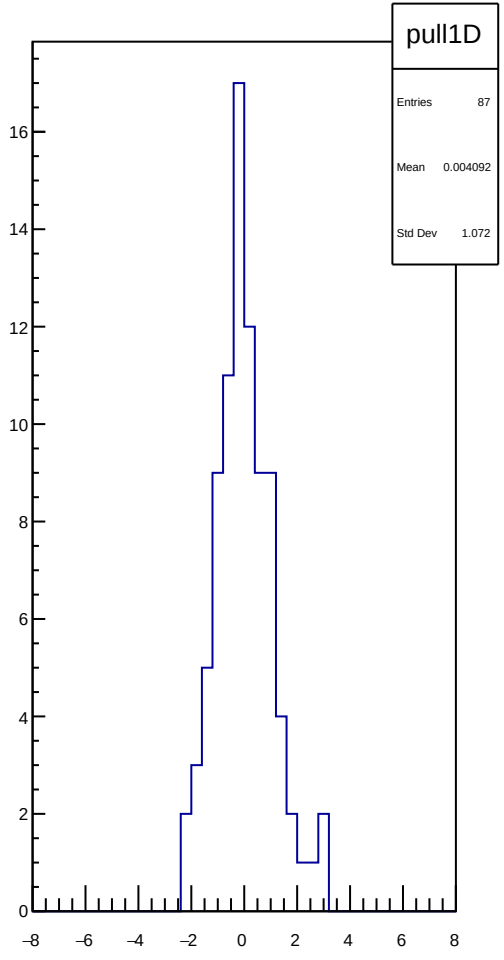

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 1.337e+04 / 86
p0 3697 ± 2.858
5000
4500
4000
3500
3000

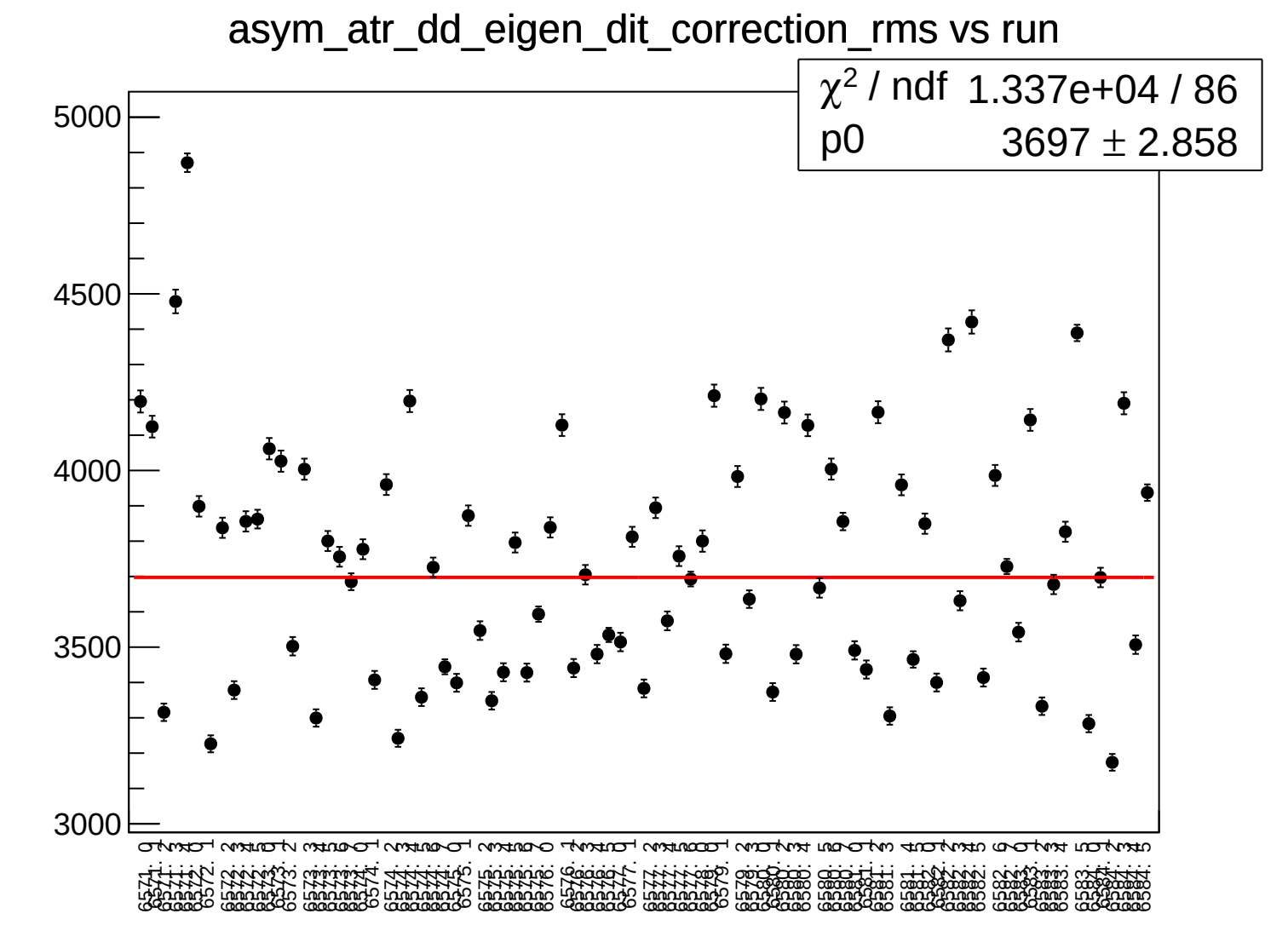

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 95 / 86
p0 2813 ± 2102
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −95.91
Std Dev 0
2
1
0
−1
−2

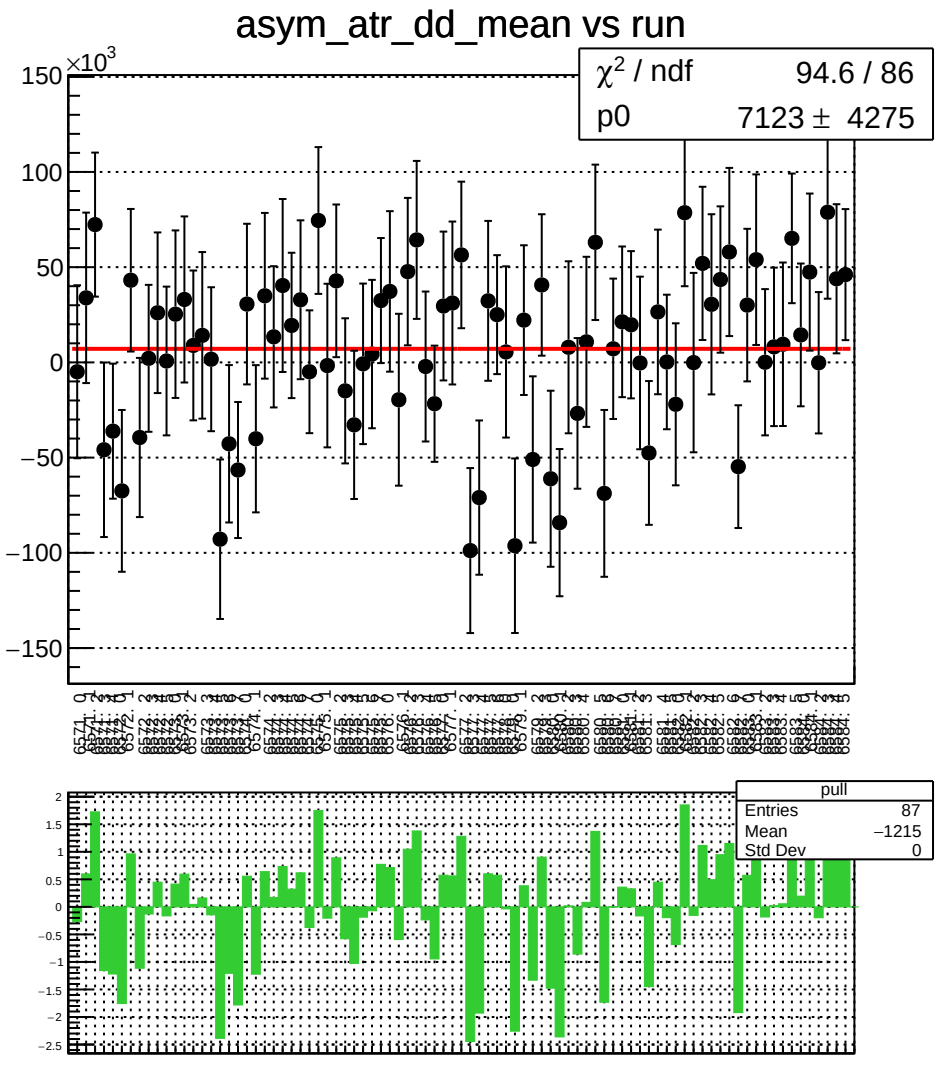

pull1D
Entries 87
Mean −0.00431
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

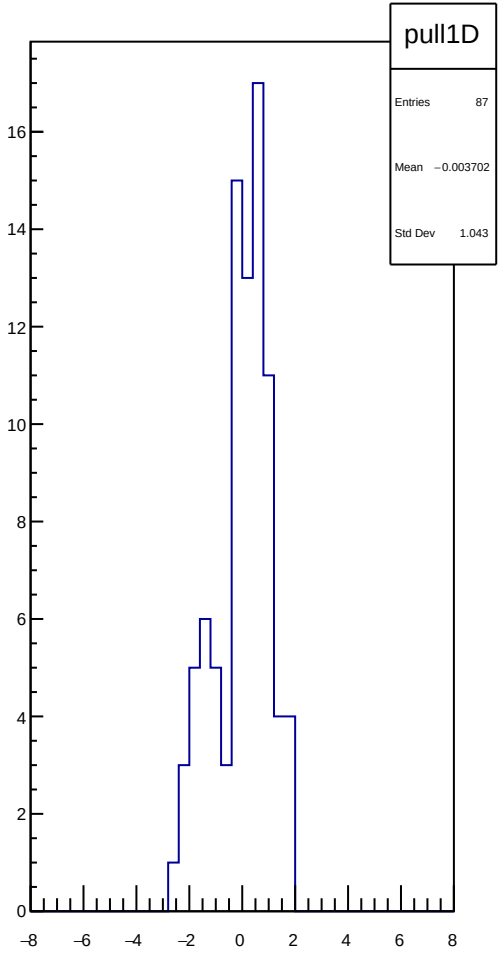

eigen_dit_asym_atr_dd_rms vs run
χ^2 / ndf 539.7 / 86
p0 1930 ± 1.486
2100
2050
2000
1950
1900
1850

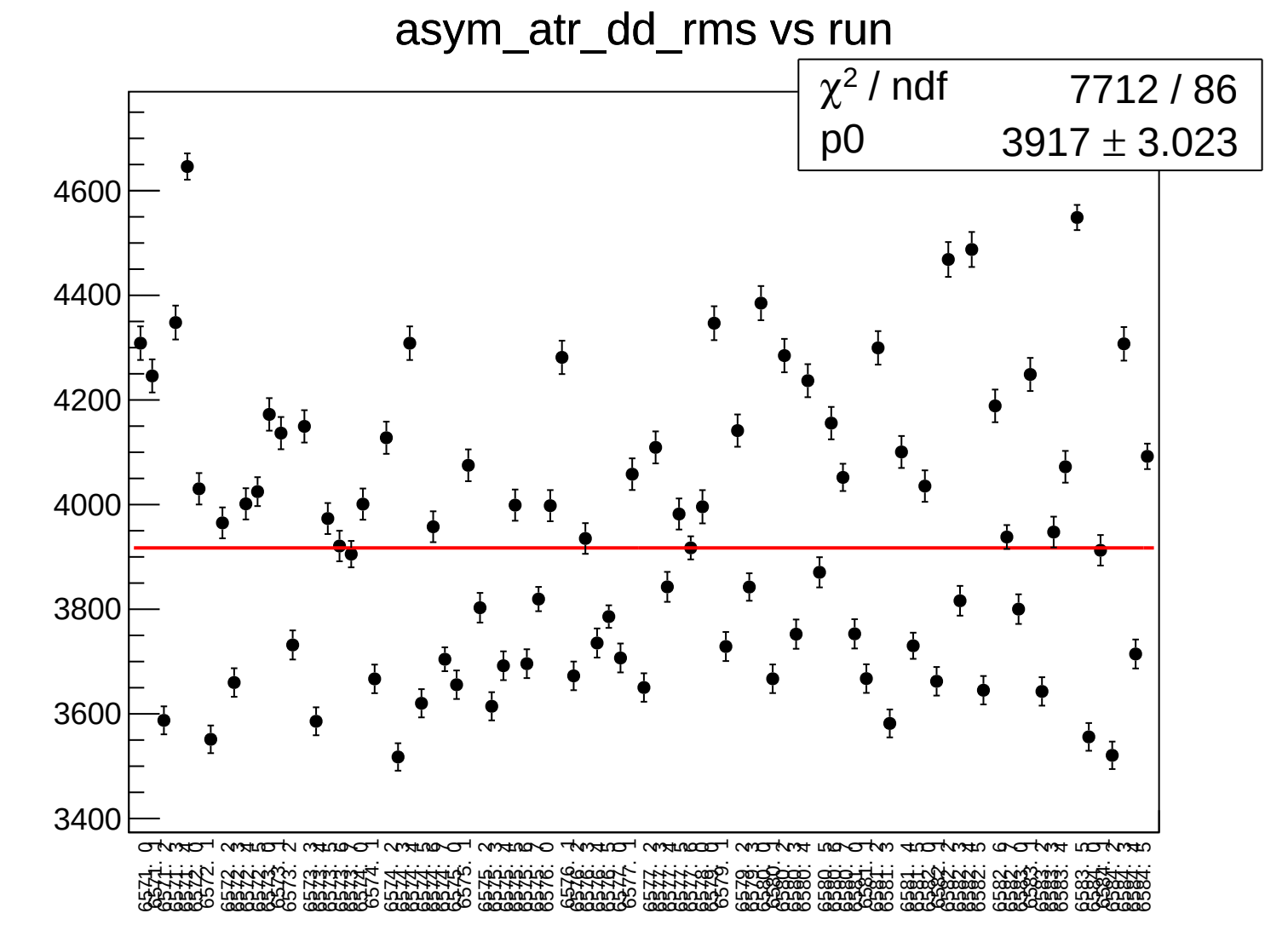

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.99 / 86
p0 −4460 ± 4042
150
100
50
0
−50
−100
pull
Entries 87
Mean −1085
Std Dev 0
3
2
1
0
−1
−2

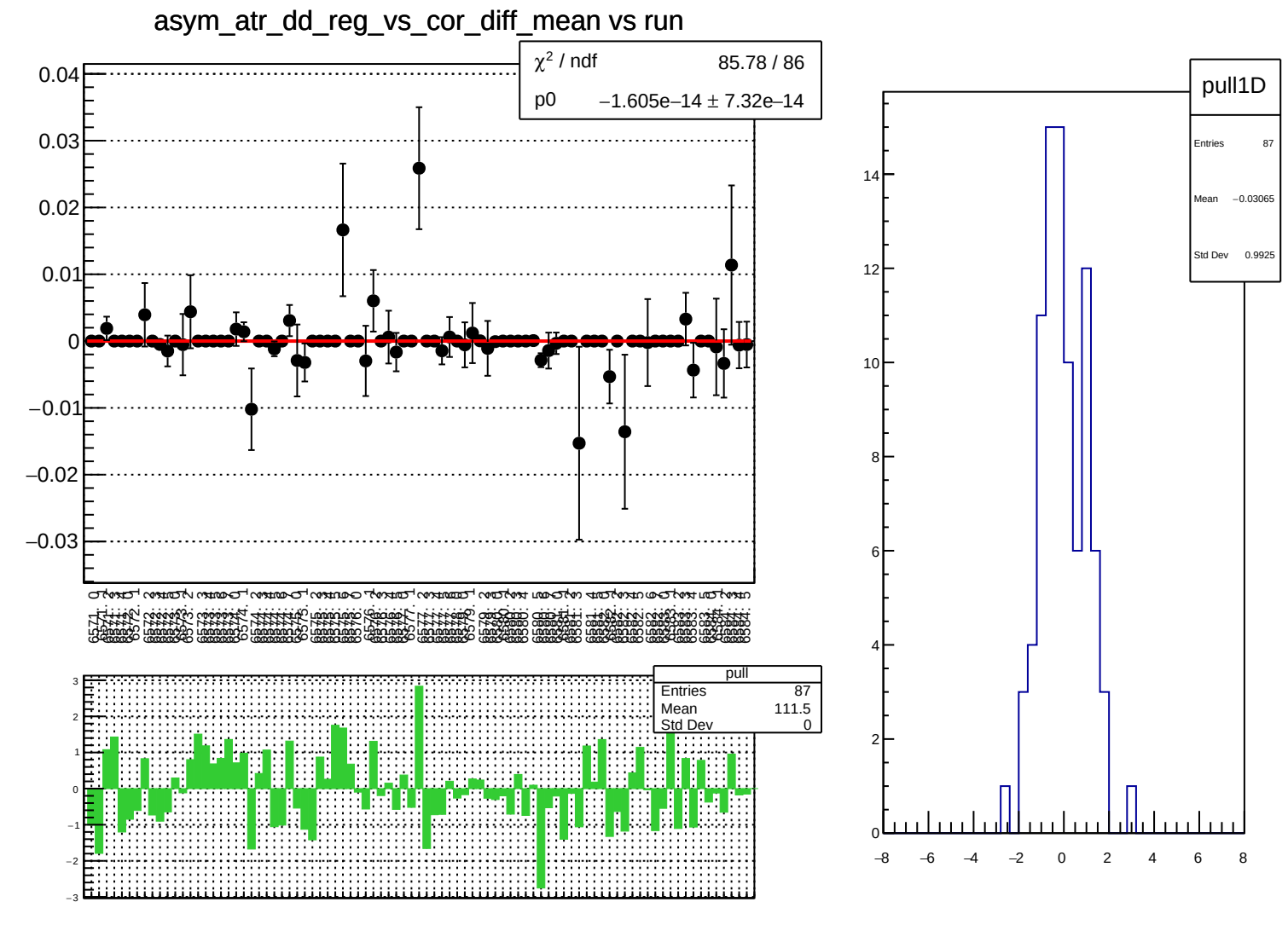

pull1D
Entries 87
Mean 0.004092
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

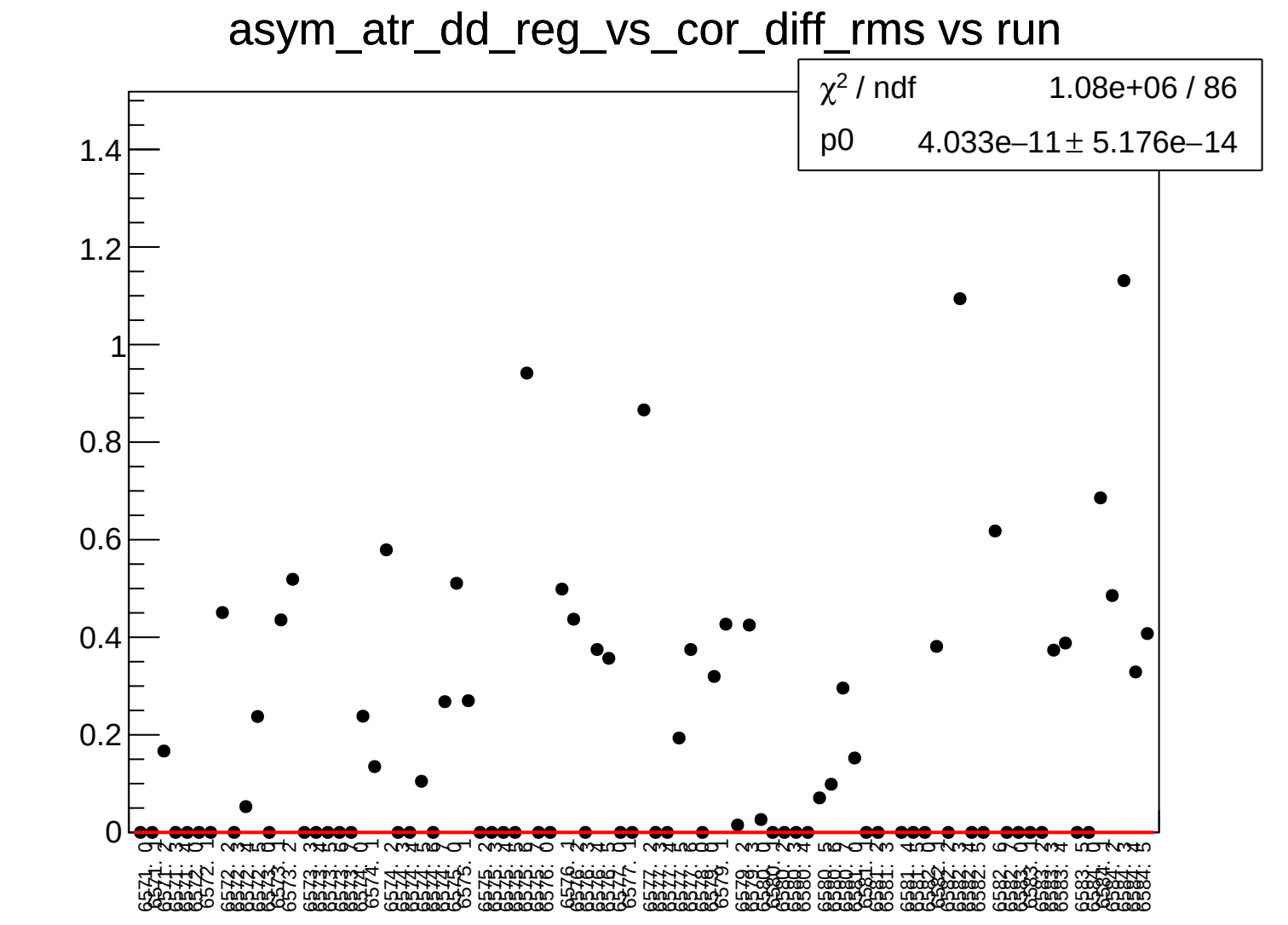

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.337e+04 / 86
p0 3697 ± 2.858
5000
4500
4000
3500
3000

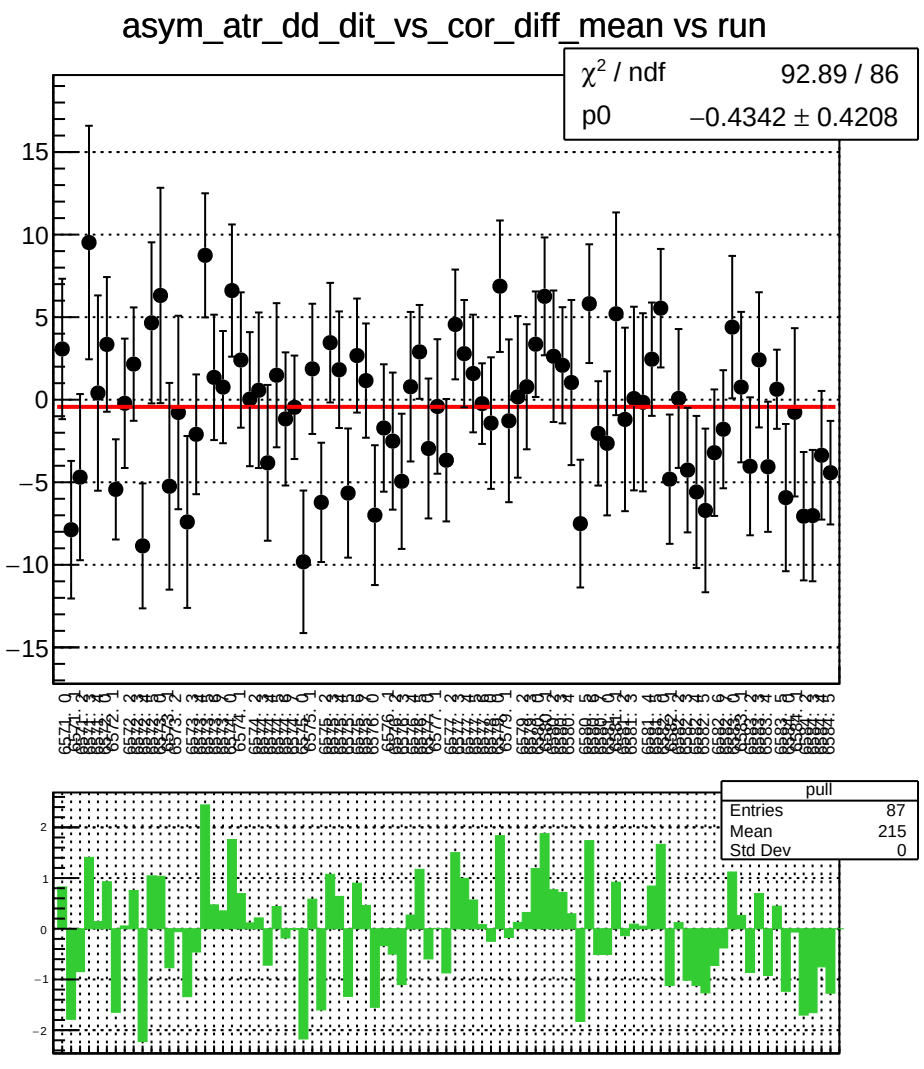

asym_atr_dd_mean vs run
χ² / ndf 94.6 / 86
p0 7123 ± 4275
×10³
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −1215
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

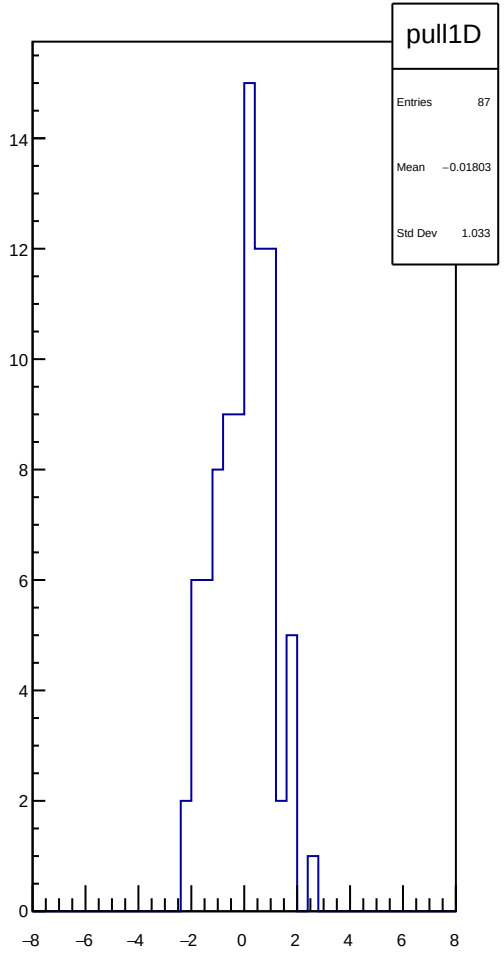

pull1D
Entries 87
Mean −0.003702
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

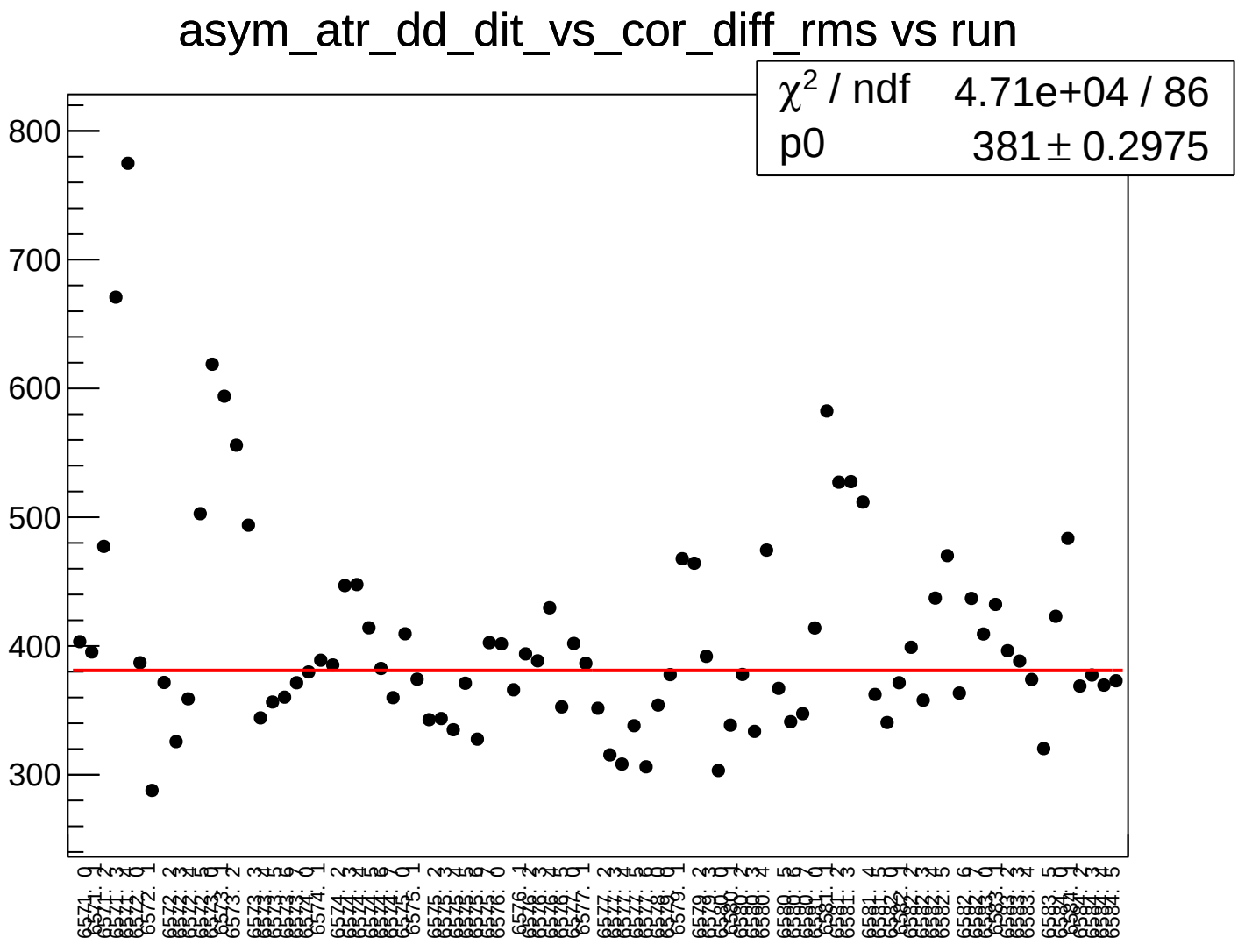

asym_atr_dd_rms vs run
χ² / ndf 7712 / 86
p0 3917 ± 3.023
4600
4400
4200
4000
3800
3600
3400

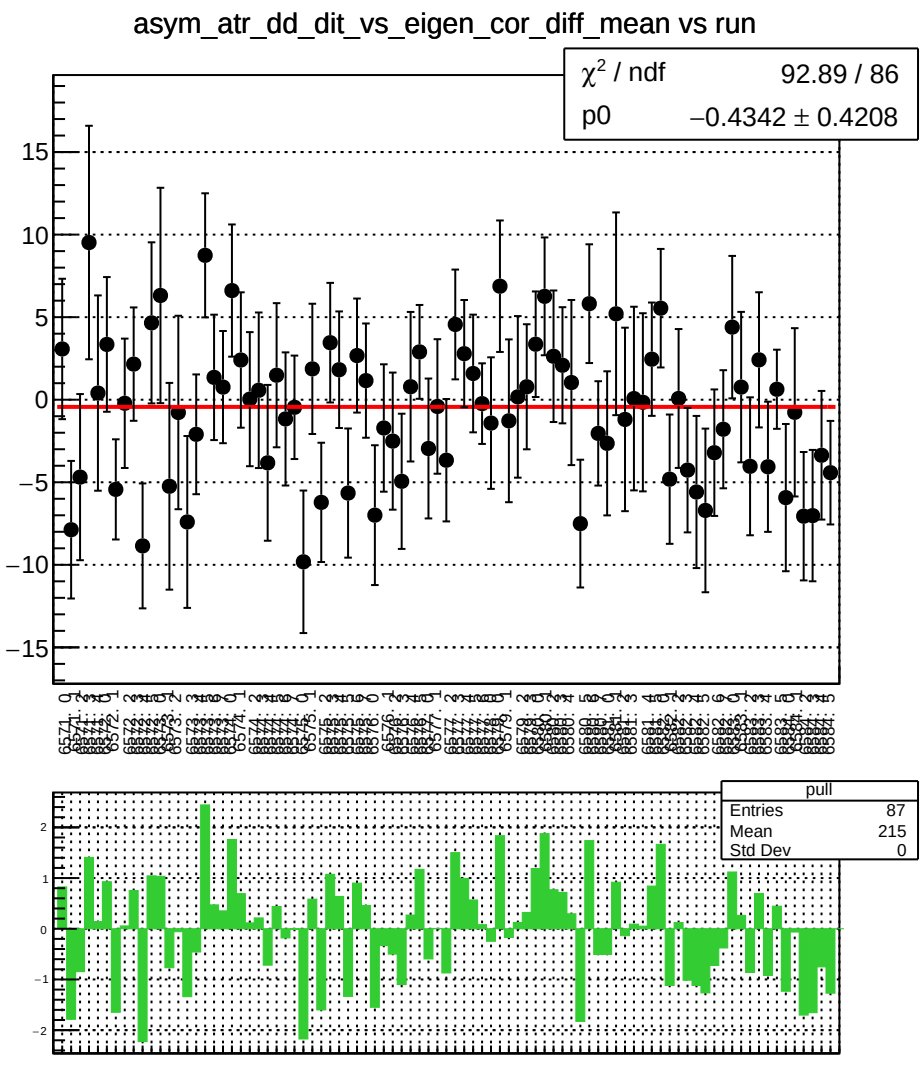

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.78 / 86
p0 −1.605e−14 ± 7.32e−14
pull
Entries 87
Mean 111.5
Std Dev 0
pull1D
Entries 87
Mean −0.03065
Std Dev 0.9925

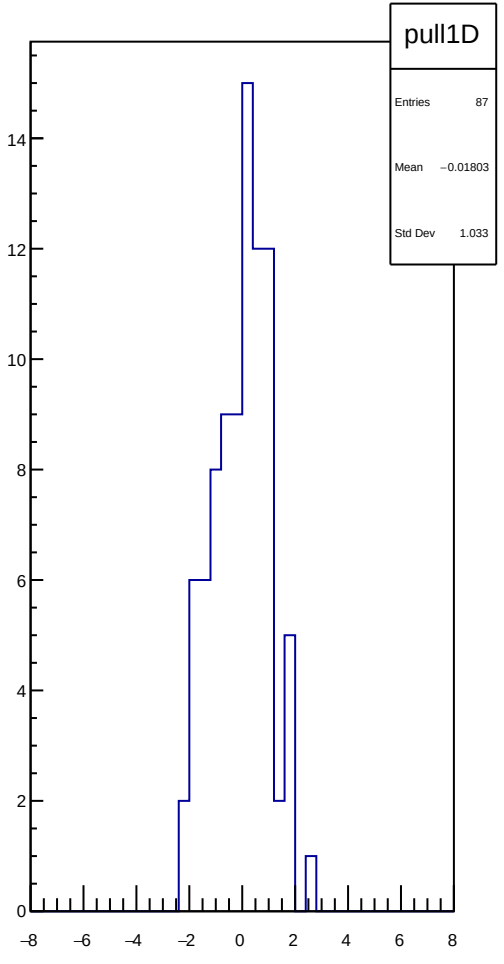

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.08e+06 / 86
p0 4.033e−11 ± 5.176e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

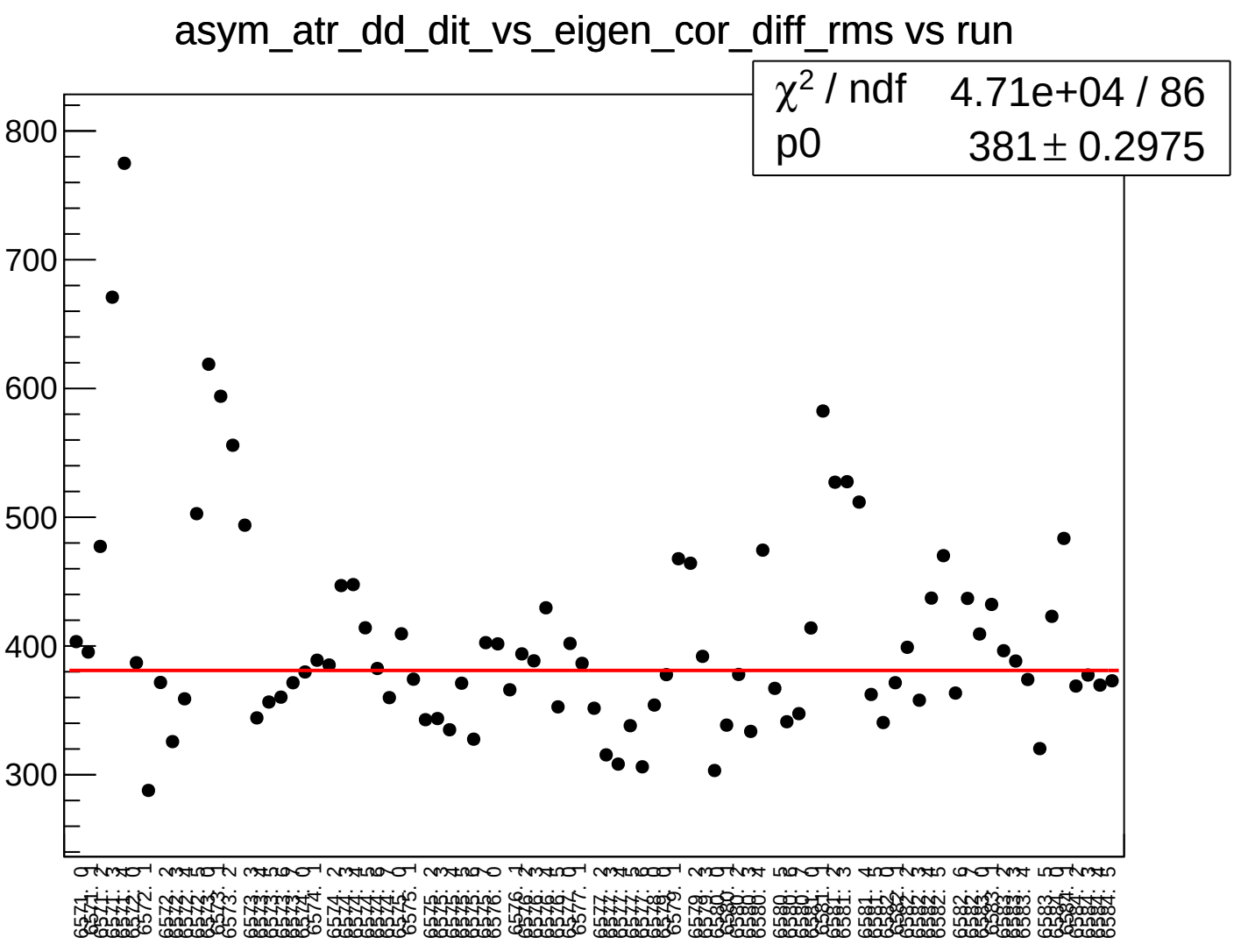

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.89 / 86
p0 −0.4342 ± 0.4208
pull
Entries 87
Mean 215
Std Dev 0

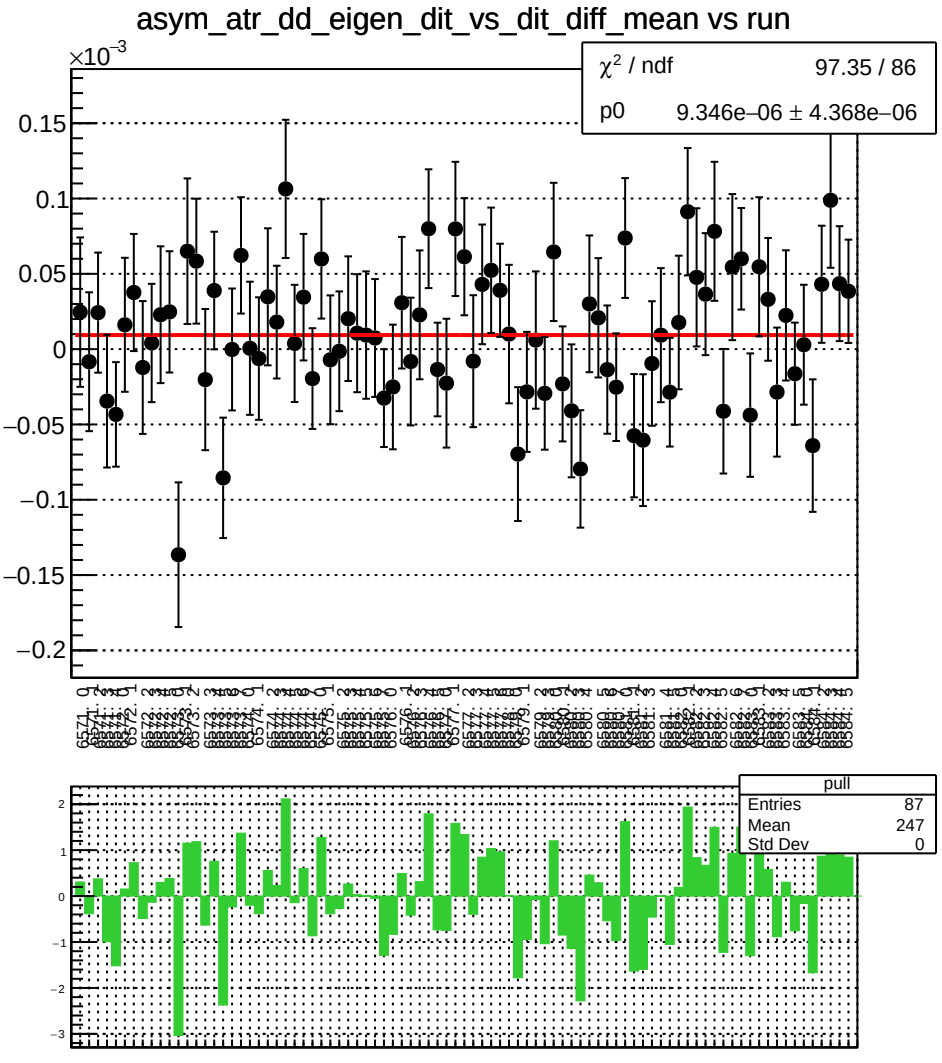

pull1D
Entries 87
Mean −0.01803
Std Dev 1.033

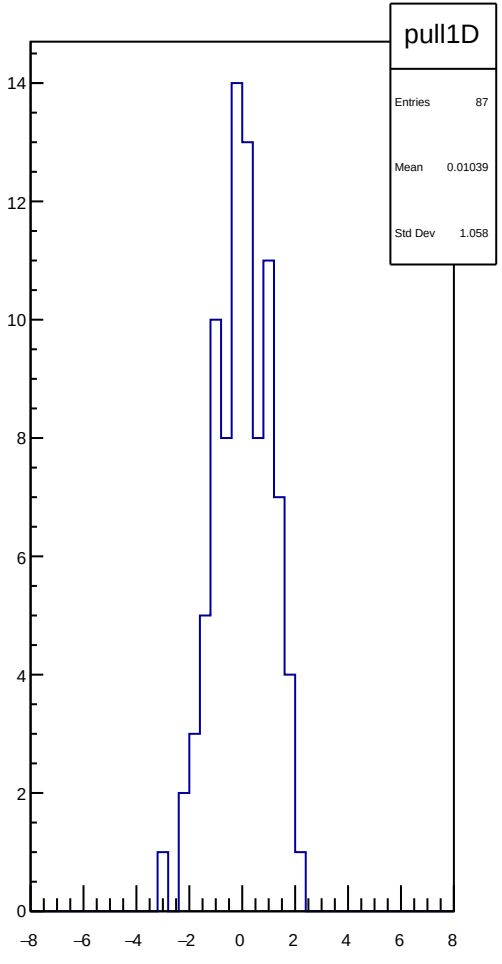

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.71e+04 / 86
p0 381 ± 0.2975
800
700
600
500
400
300

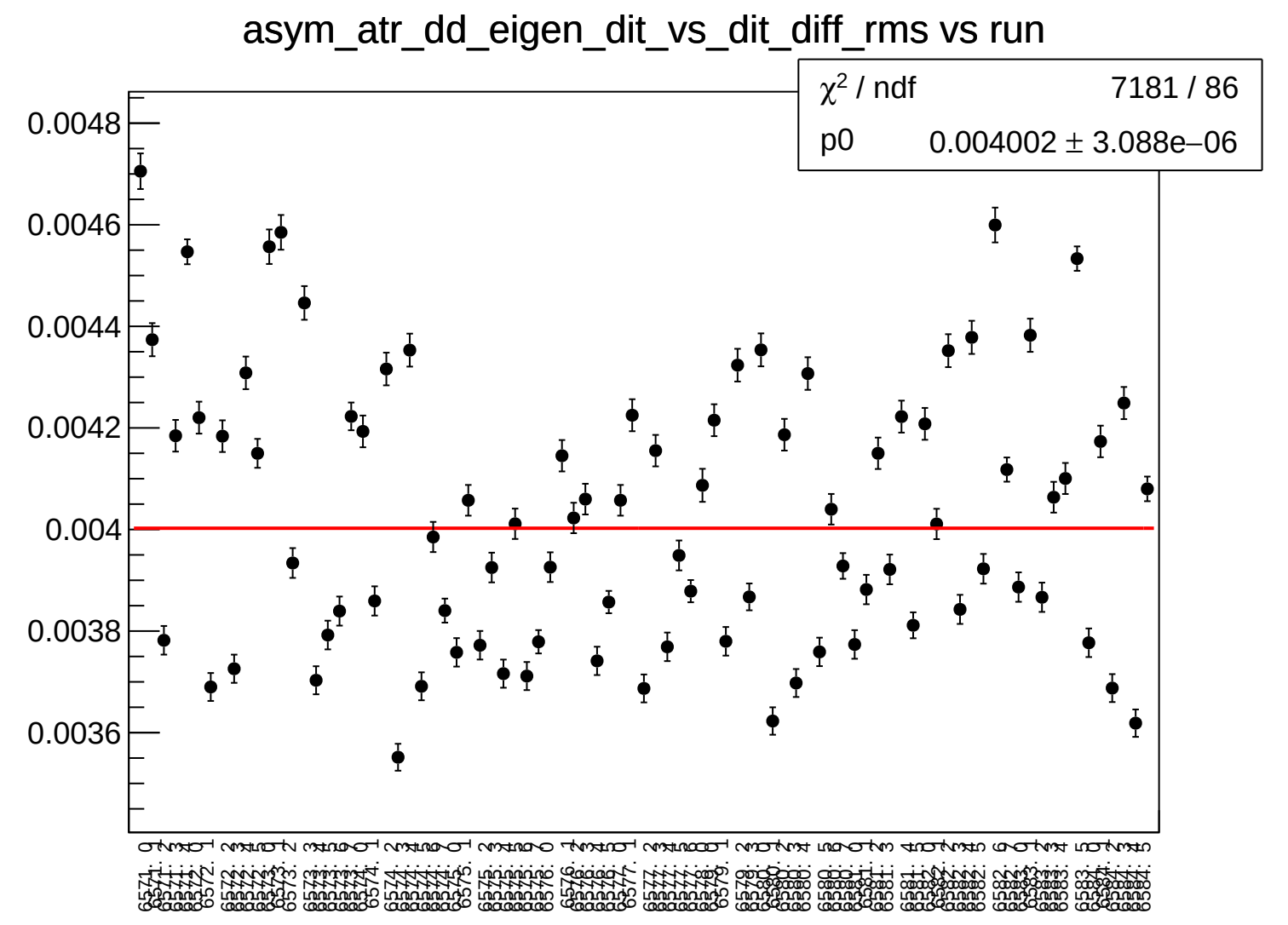

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.89 / 86
p0 −0.4342 ± 0.4208
pull
Entries 87
Mean 215
Std Dev 0

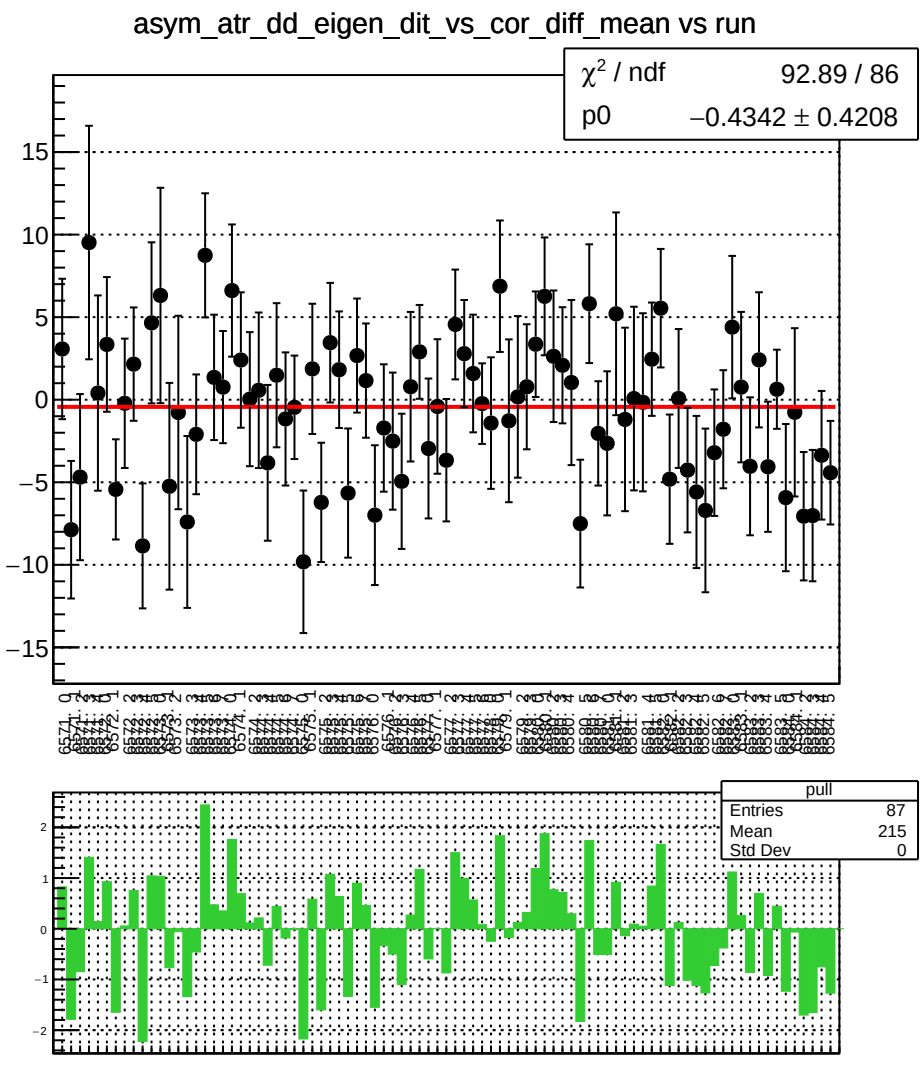

pull1D
Entries 87
Mean −0.01803
Std Dev 1.033

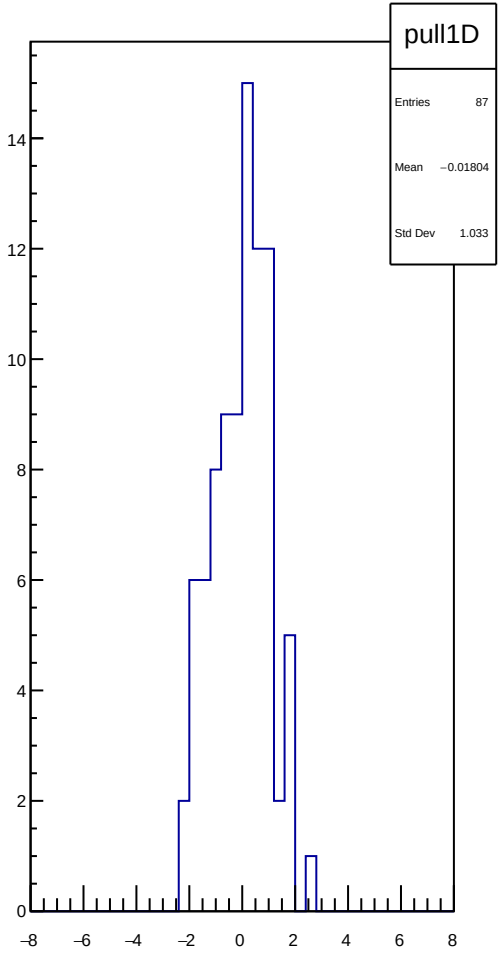

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.71e+04 / 86
p0 381 ± 0.2975
800
700
600
500
400
300

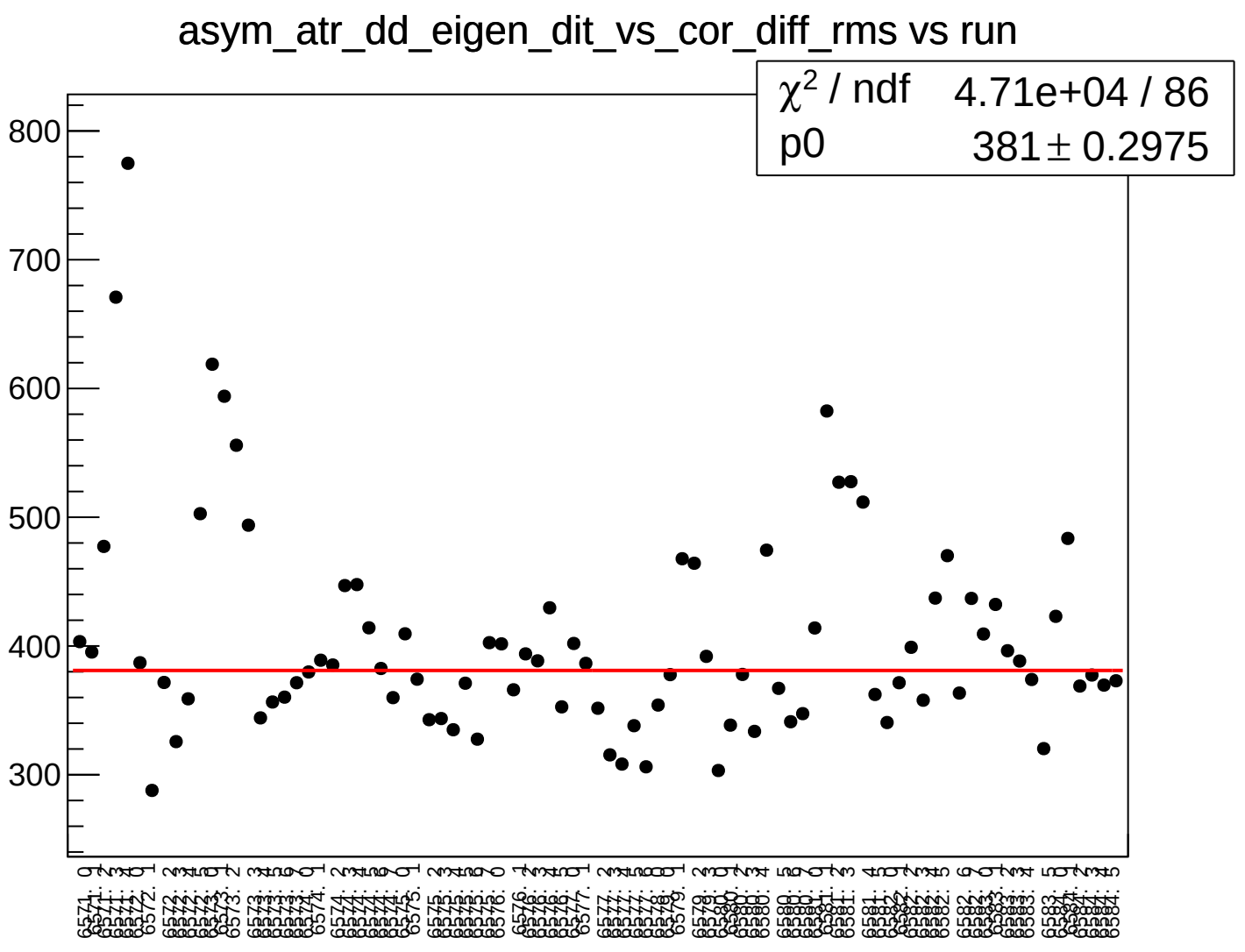

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.35 / 86
p0 9.346e−06 ± 4.368e−06
pull
Entries 87
Mean 247
Std Dev 0

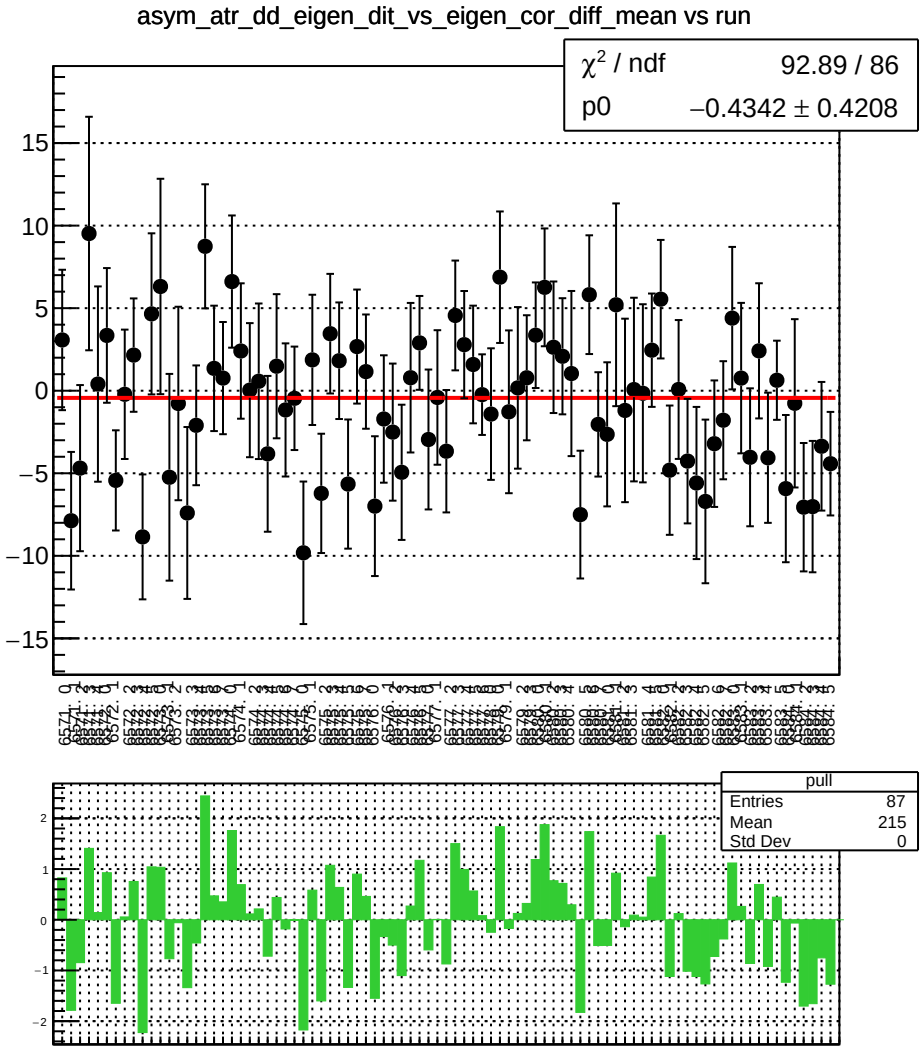

pull1D
Entries 87
Mean 0.01039
Std Dev 1.058

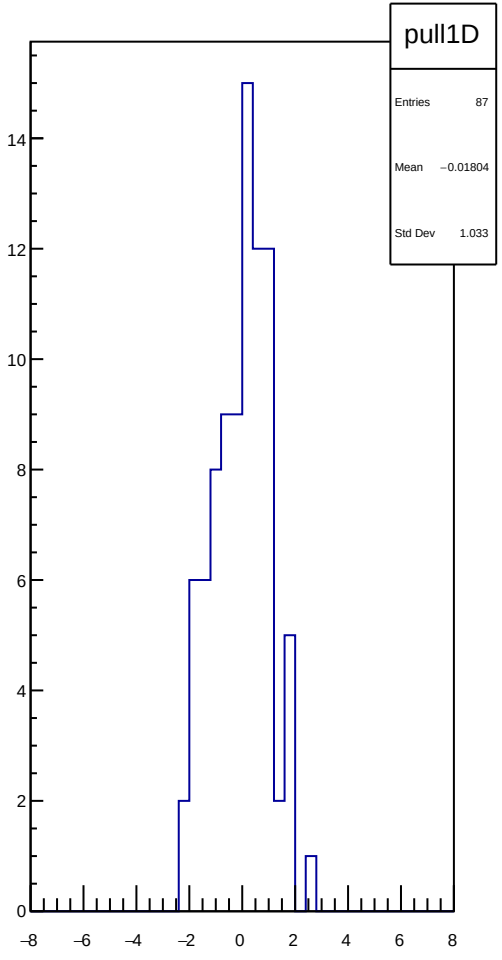

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7181 / 86
p0 0.004002 ± 3.088e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

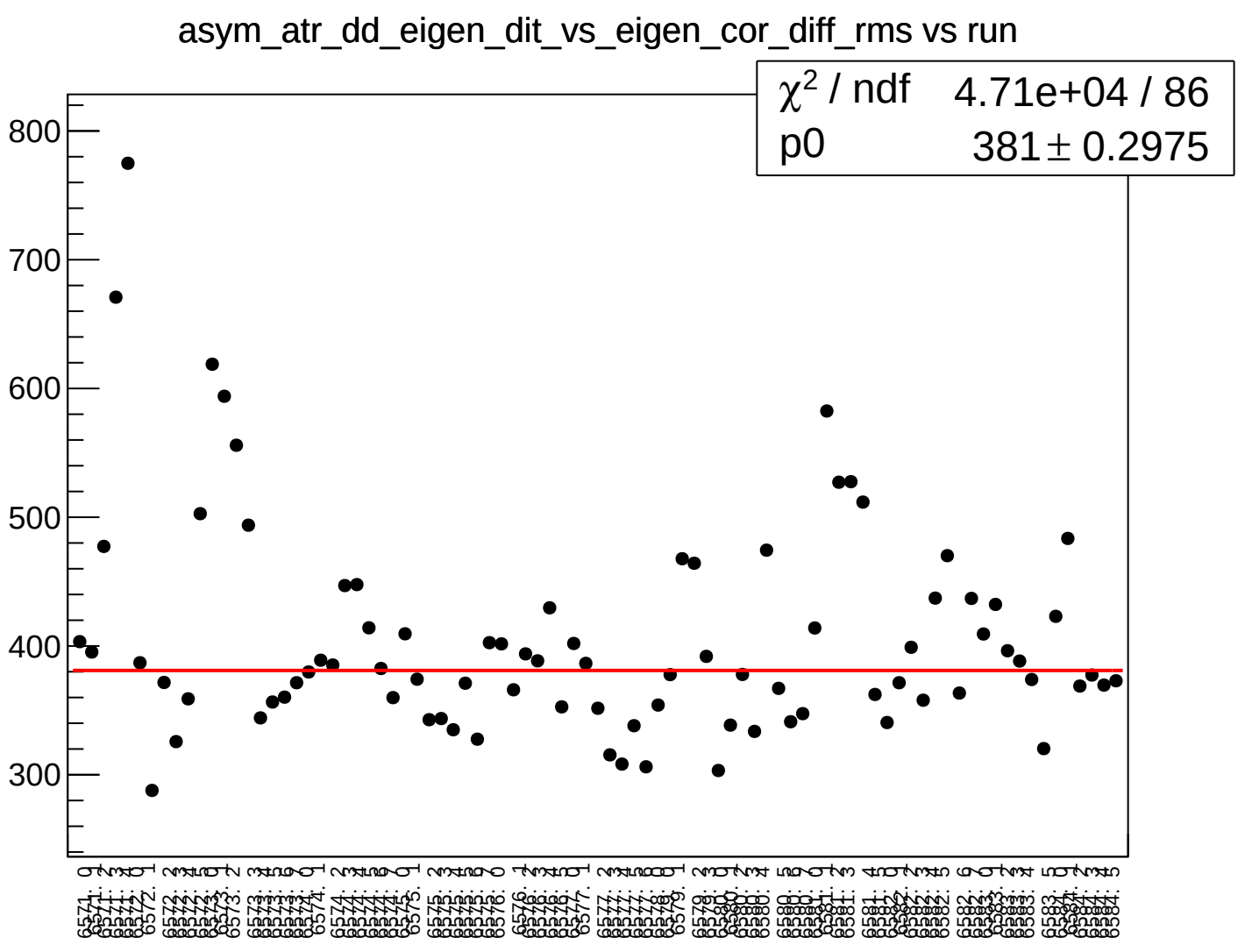

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.89 / 86
p0 −0.4342 ± 0.4208
pull
Entries 87
Mean 215
Std Dev 0

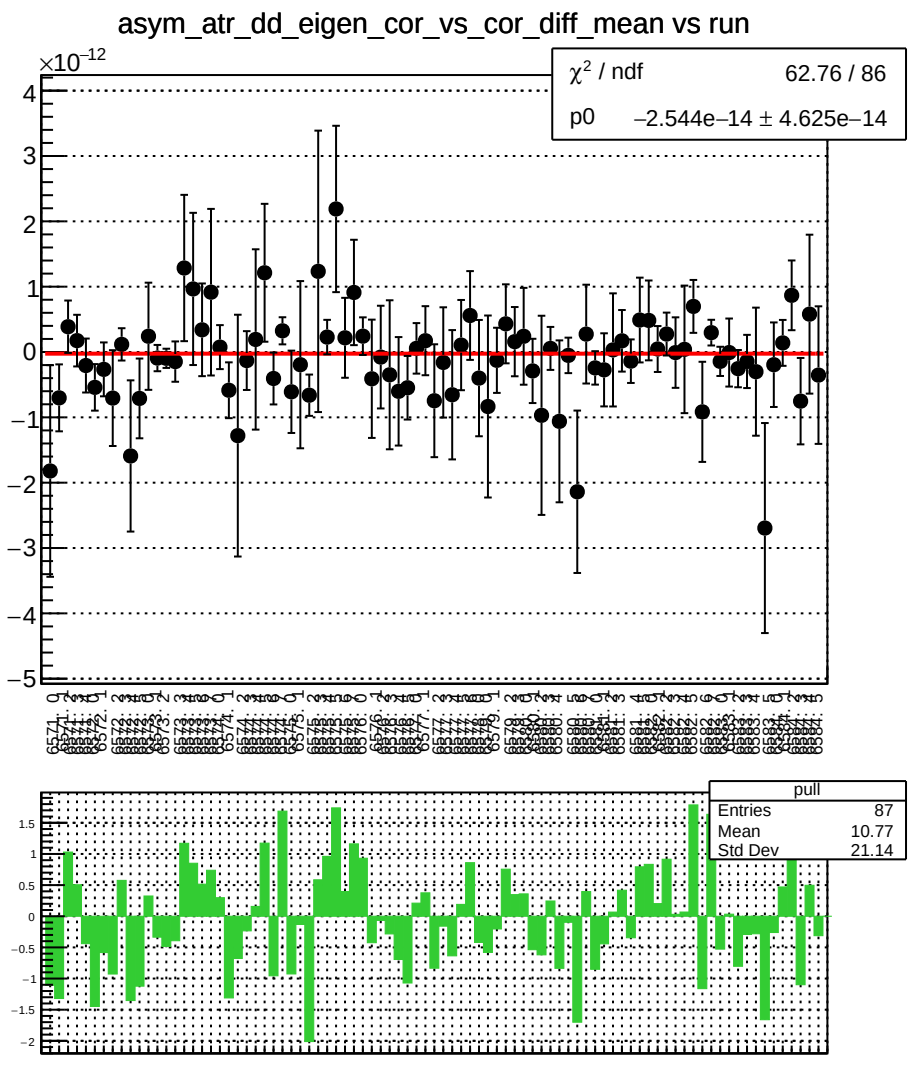

pull1D
Entries 87
Mean −0.01804
Std Dev 1.033

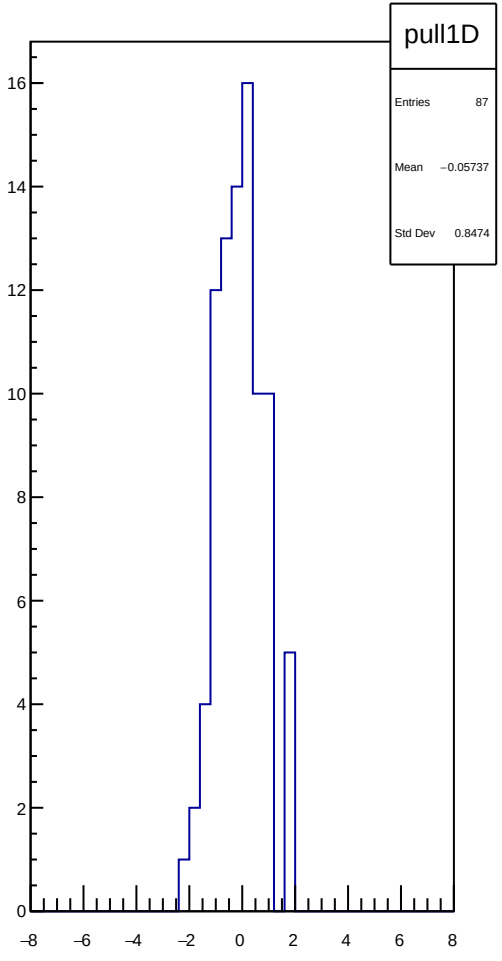

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.71e+04 / 86
p0 381 ± 0.2975
800
700
600
500
400
300

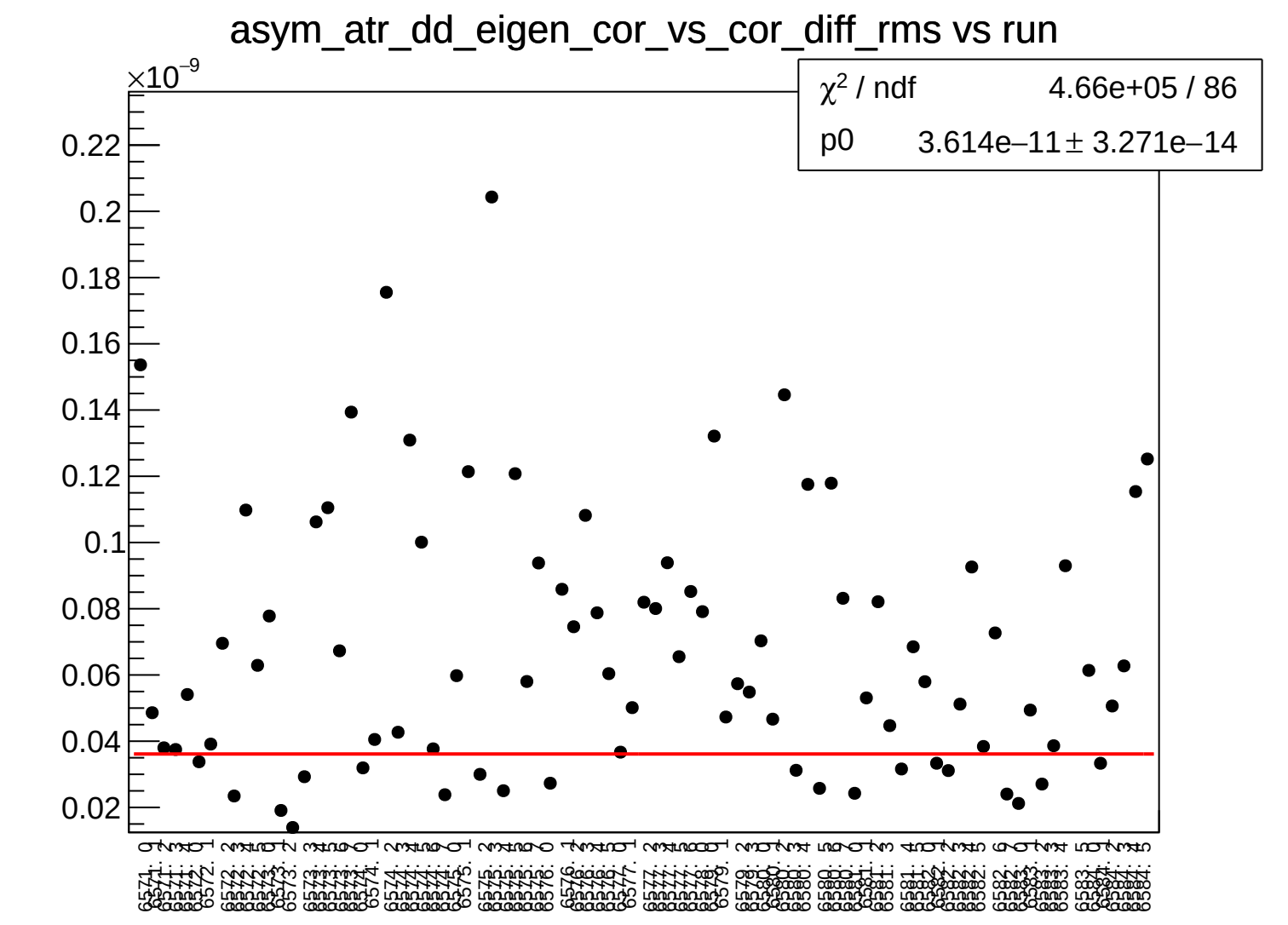

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.89 / 86
p0 −0.4342 ± 0.4208
pull
Entries 87
Mean 215
Std Dev 0

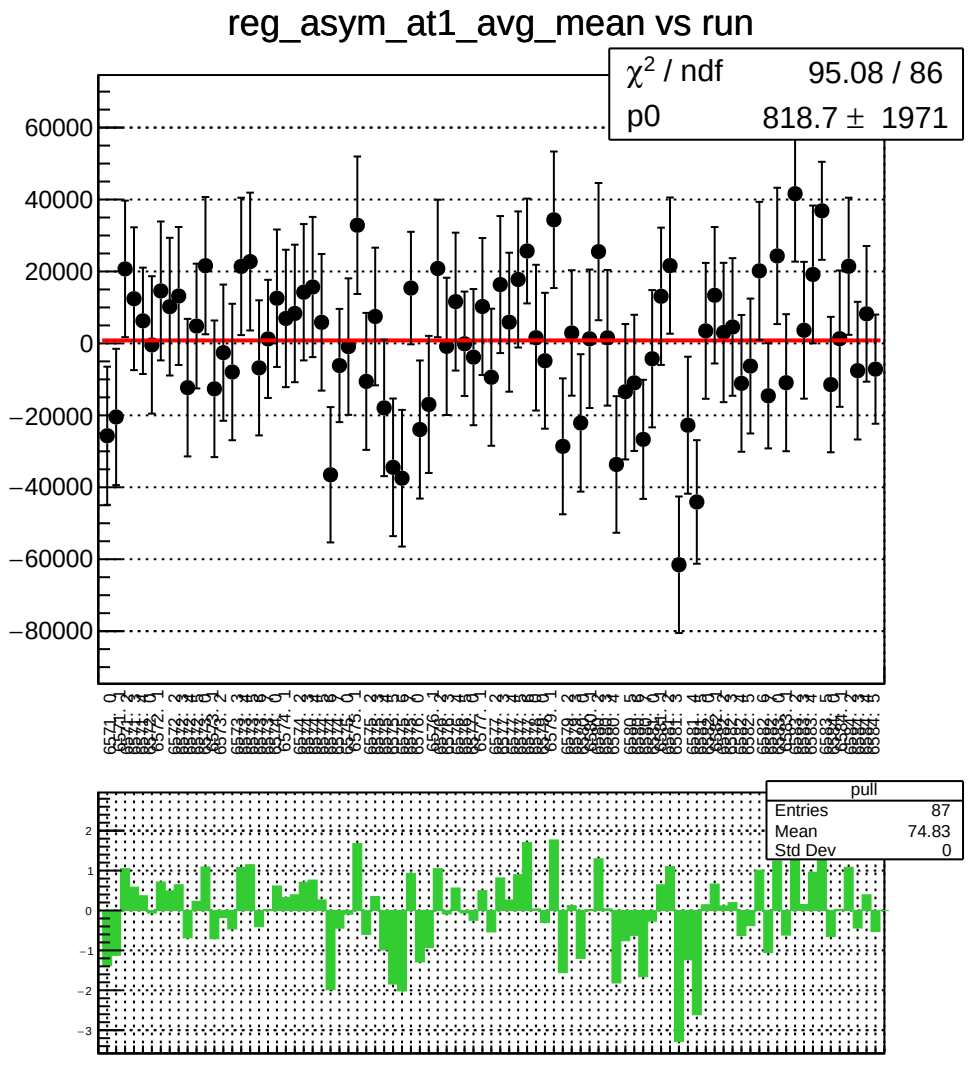

pull1D
Entries 87
Mean −0.01804
Std Dev 1.033

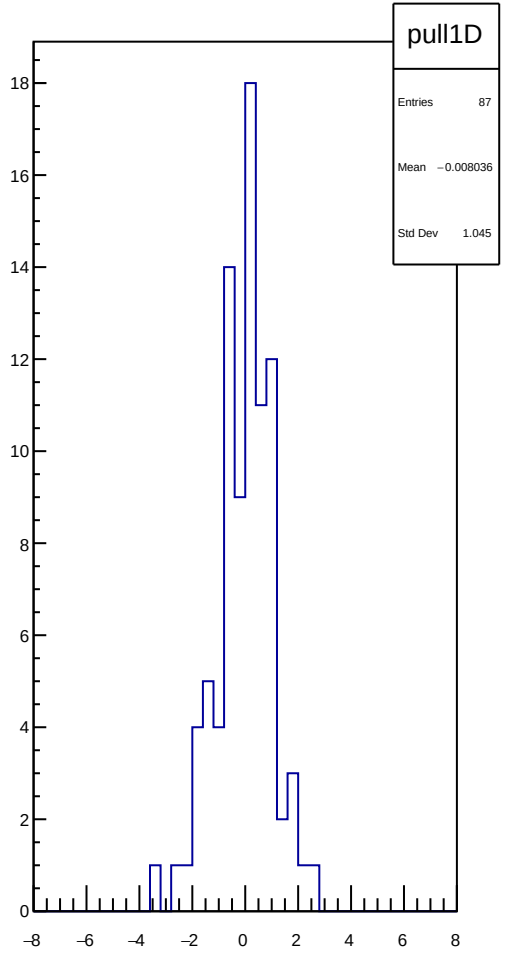

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.71e+04 / 86
p0 381 ± 0.2975
800
700
600
500
400
300

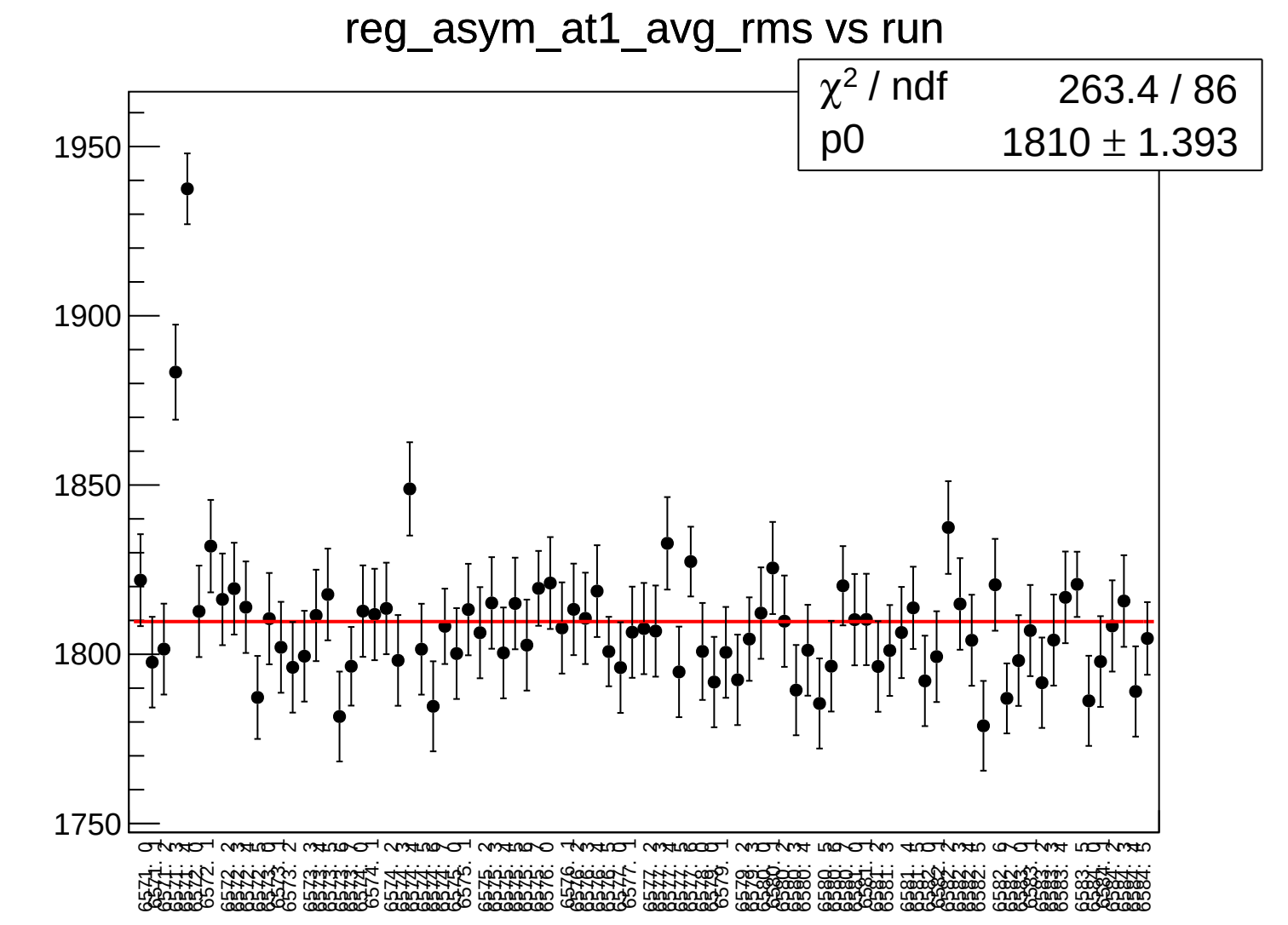

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.76 / 86
p0 −2.544e−14 ± 4.625e−14
pull
Entries 87
Mean 10.77
Std Dev 21.14

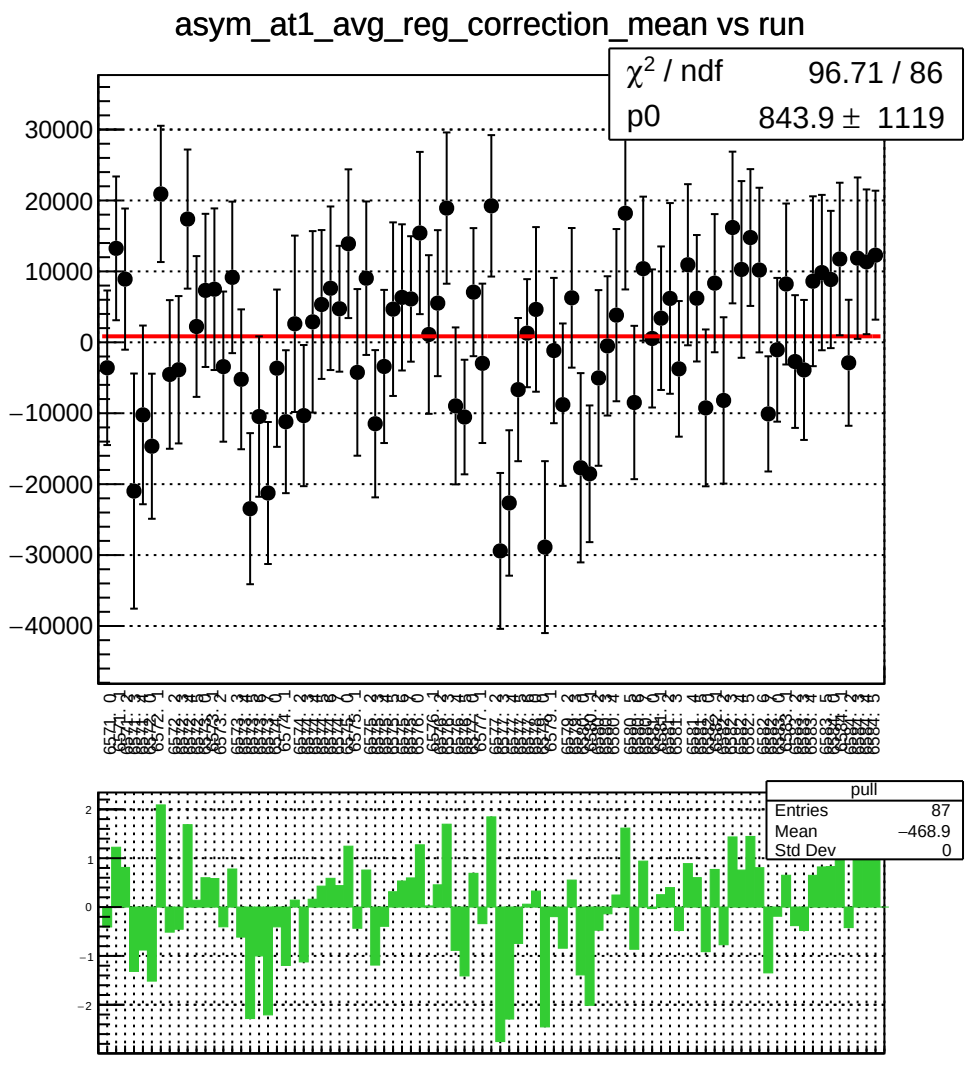

pull1D
Entries 87
Mean −0.05737
Std Dev 0.8474

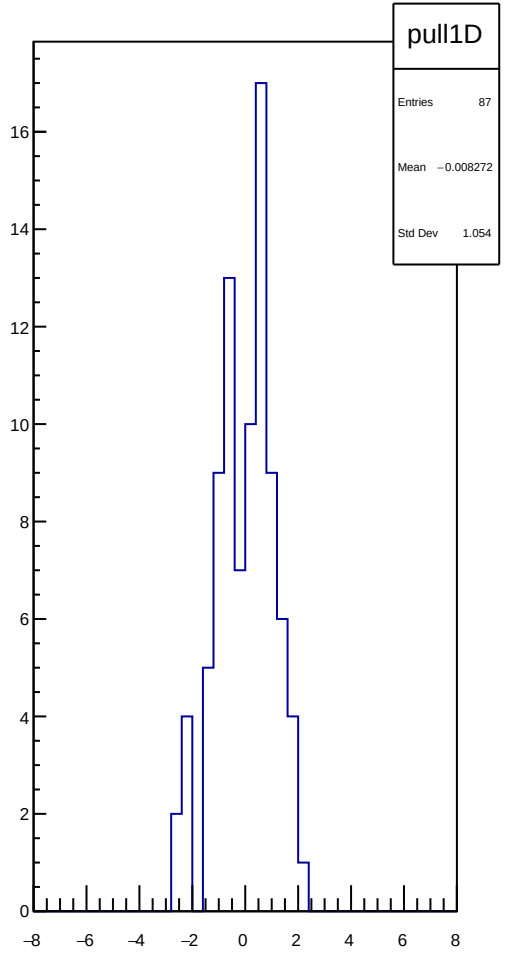

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.66e+05 / 86
p0 3.614e−11 ± 3.271e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

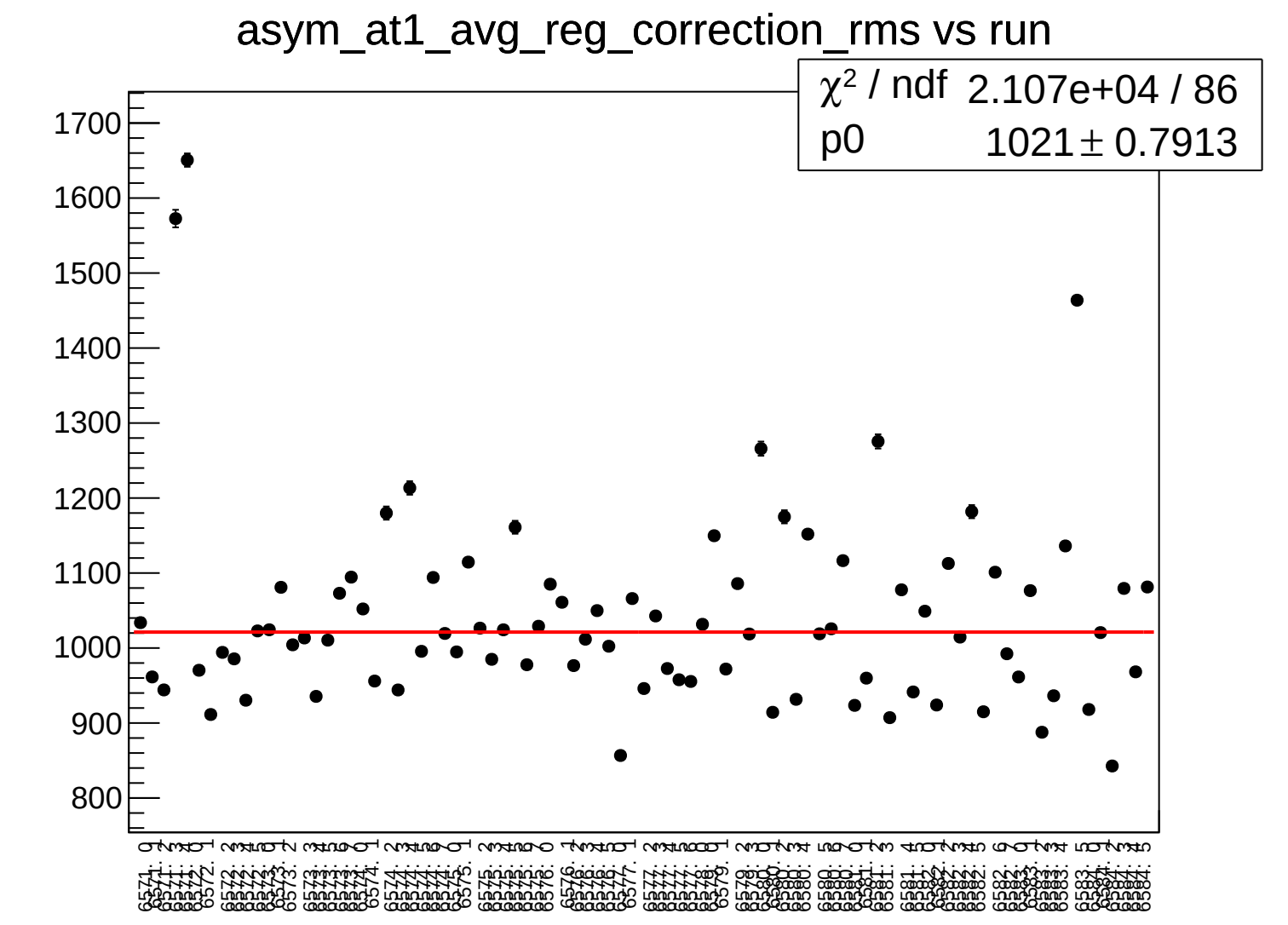

reg_asym_at1_avg_mean vs run
χ² / ndf 95.08 / 86
p0 818.7 ± 1971
pull
Entries 87
Mean 74.83
Std Dev 0

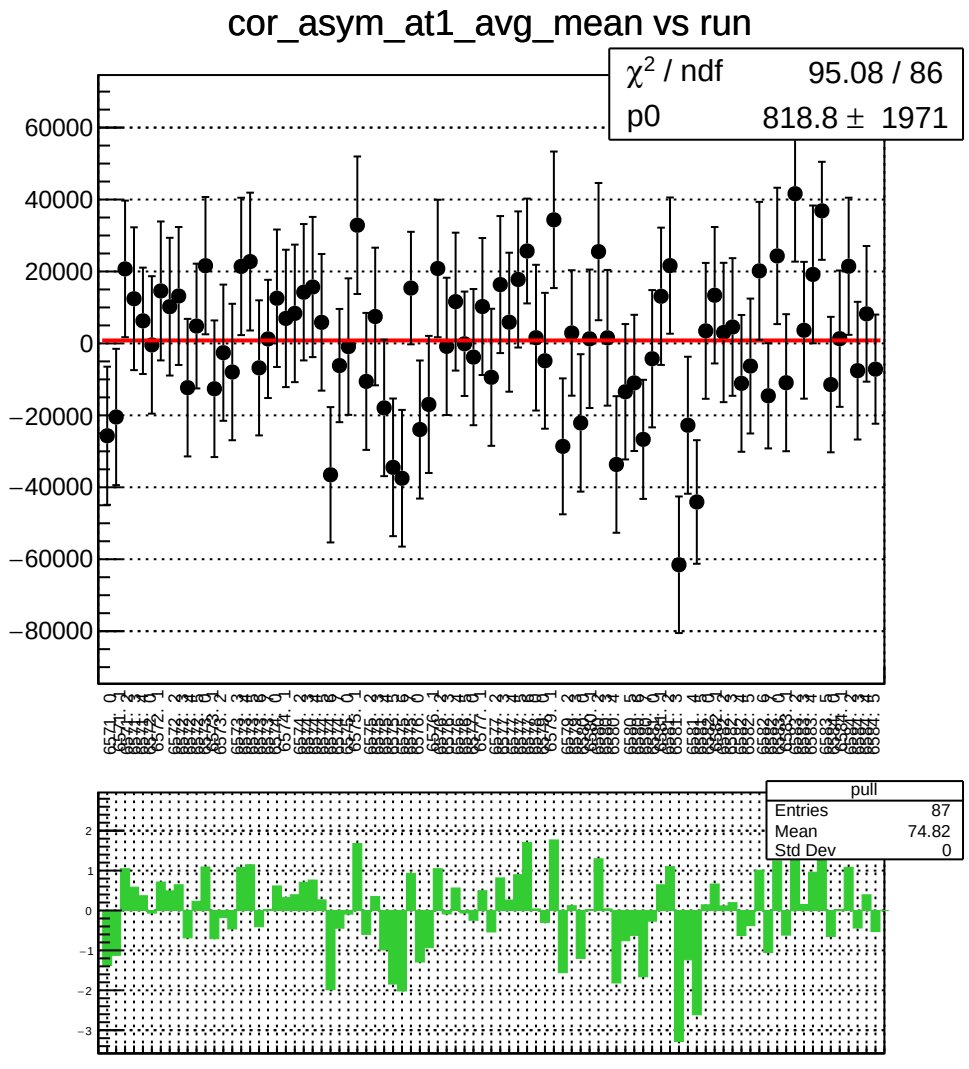

pull1D
Entries 87
Mean −0.008036
Std Dev 1.045

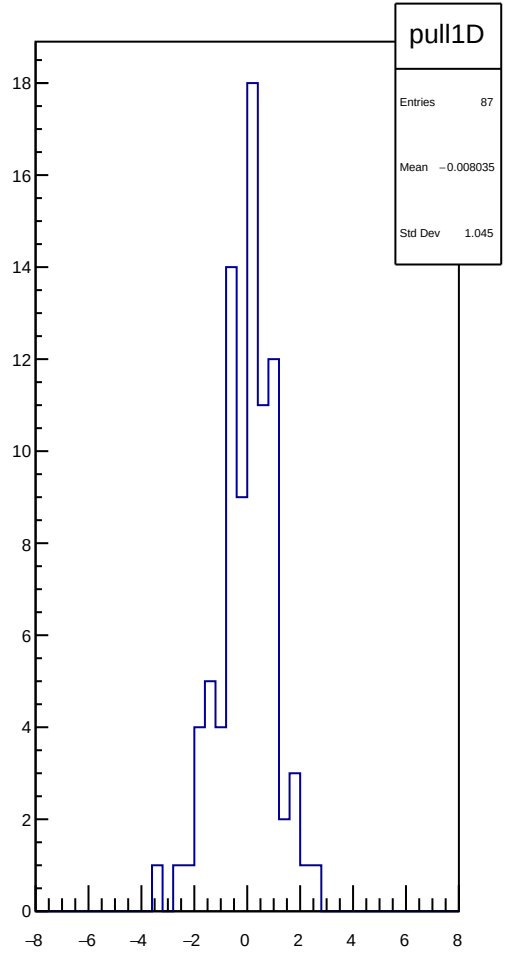

reg_asym_at1_avg_rms vs run
χ² / ndf 263.4 / 86
p0 1810 ± 1.393
1950
1900
1850
1800
1750

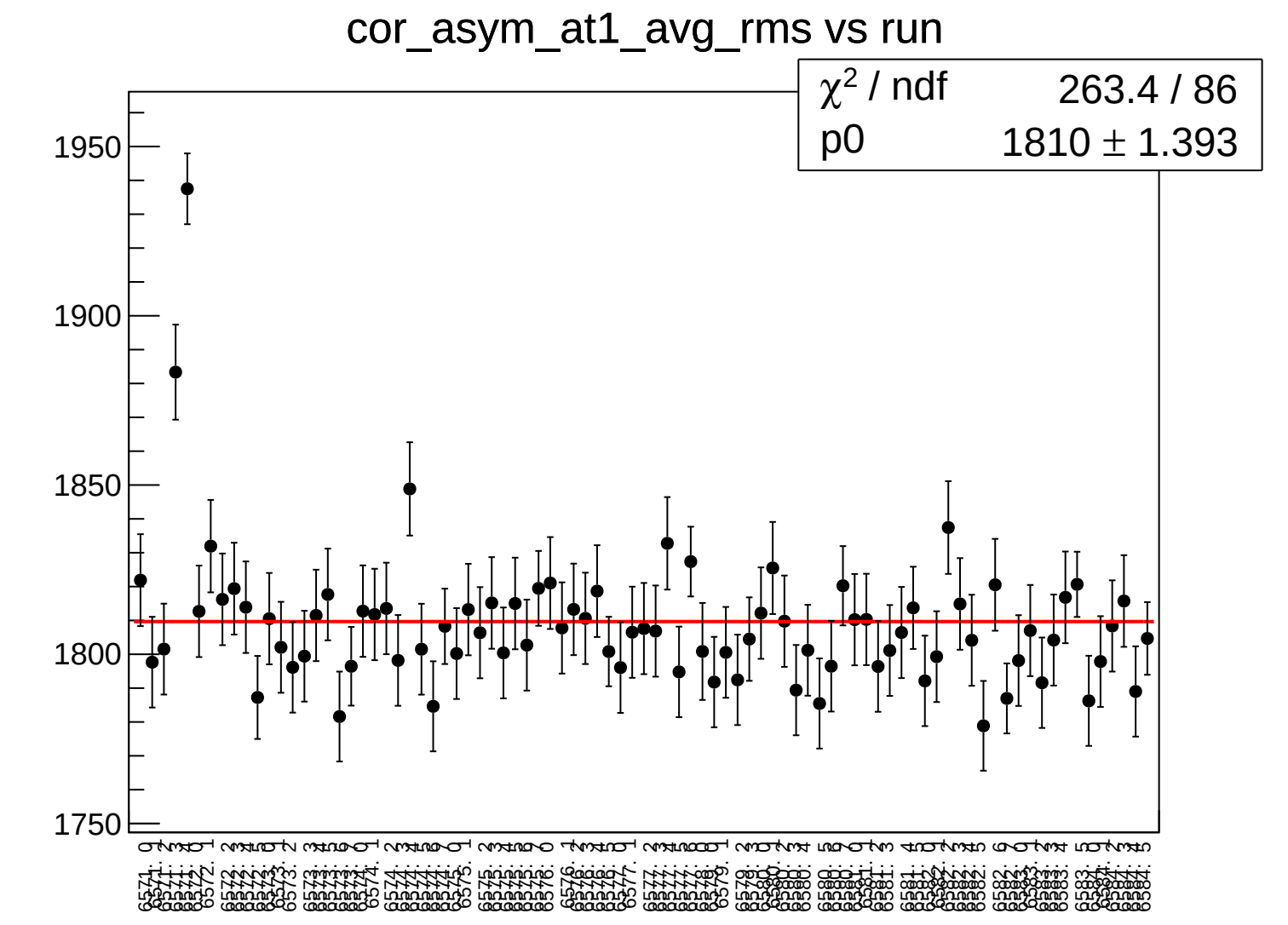

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 96.71 / 86
p0 843.9 ± 1119
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −468.9
Std Dev 0
2
1
0
−1
−2

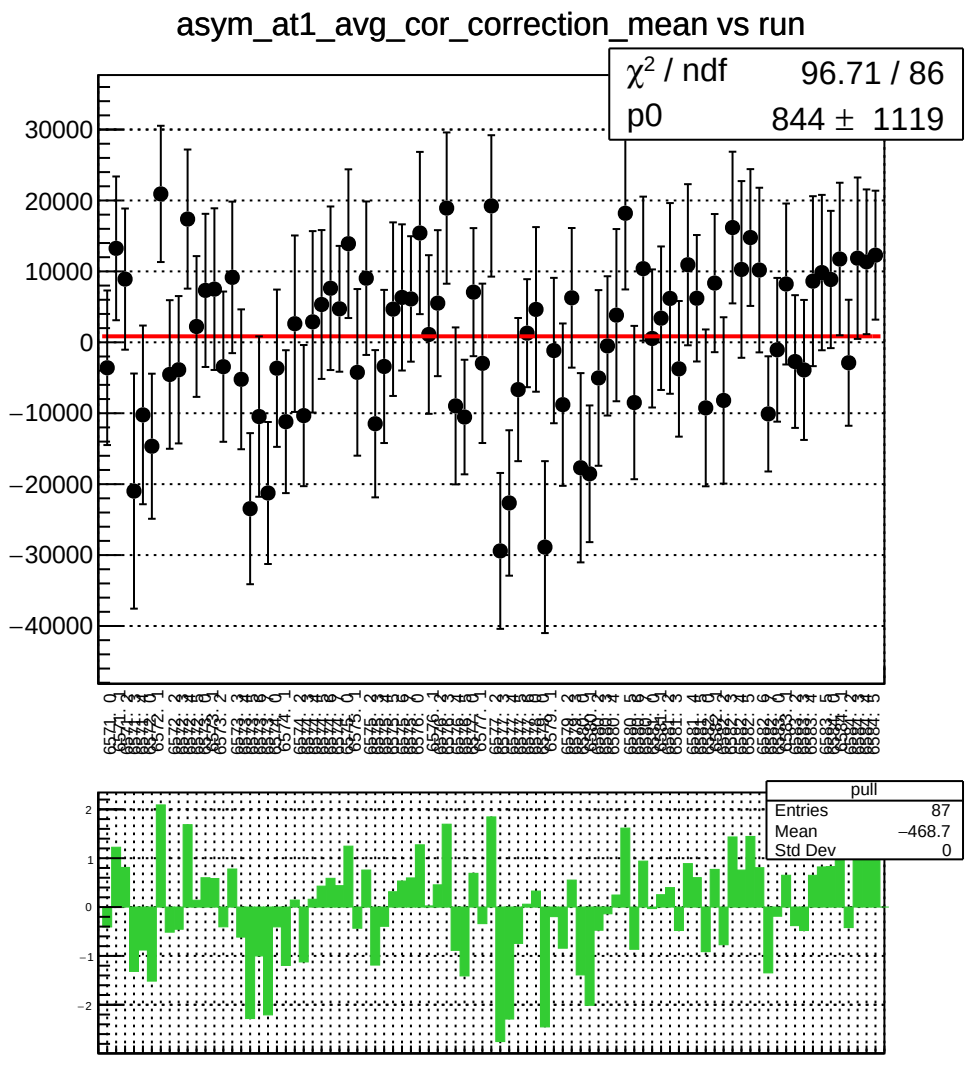

pull1D
Entries 87
Mean −0.008272
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

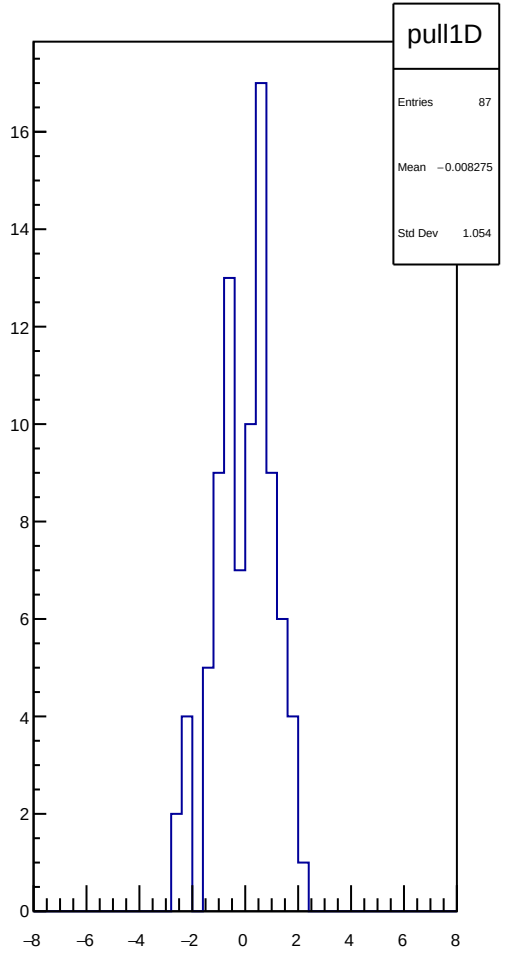

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.107e+04 / 86
p0 1021 ± 0.7913
1700
1600
1500
1400
1300
1200
1100
1000
900
800

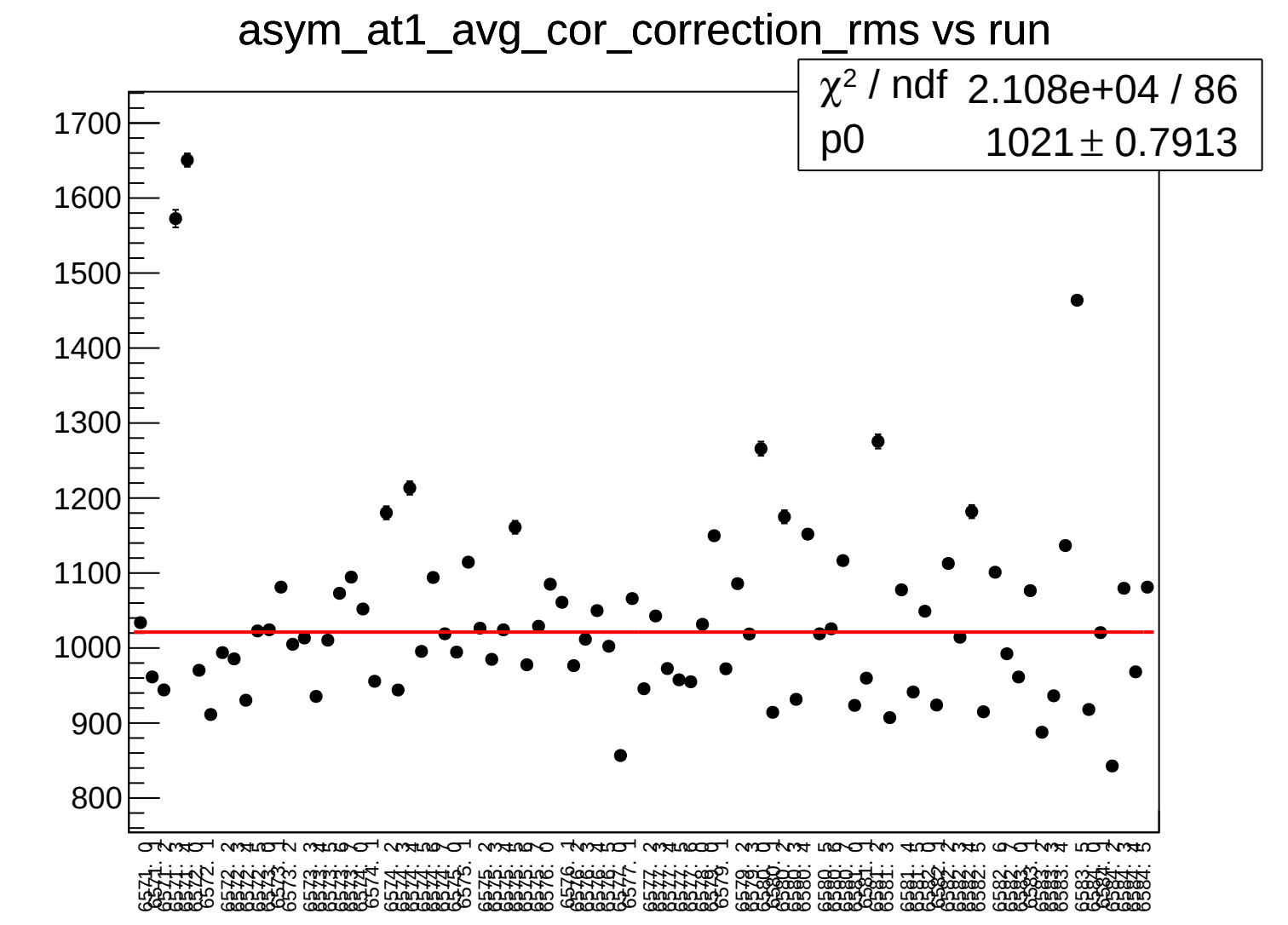

cor_asym_at1_avg_mean vs run
χ² / ndf 95.08 / 86
p0 818.8 ± 1971
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 74.82
Std Dev 0
2
1
0
−1
−2
−3

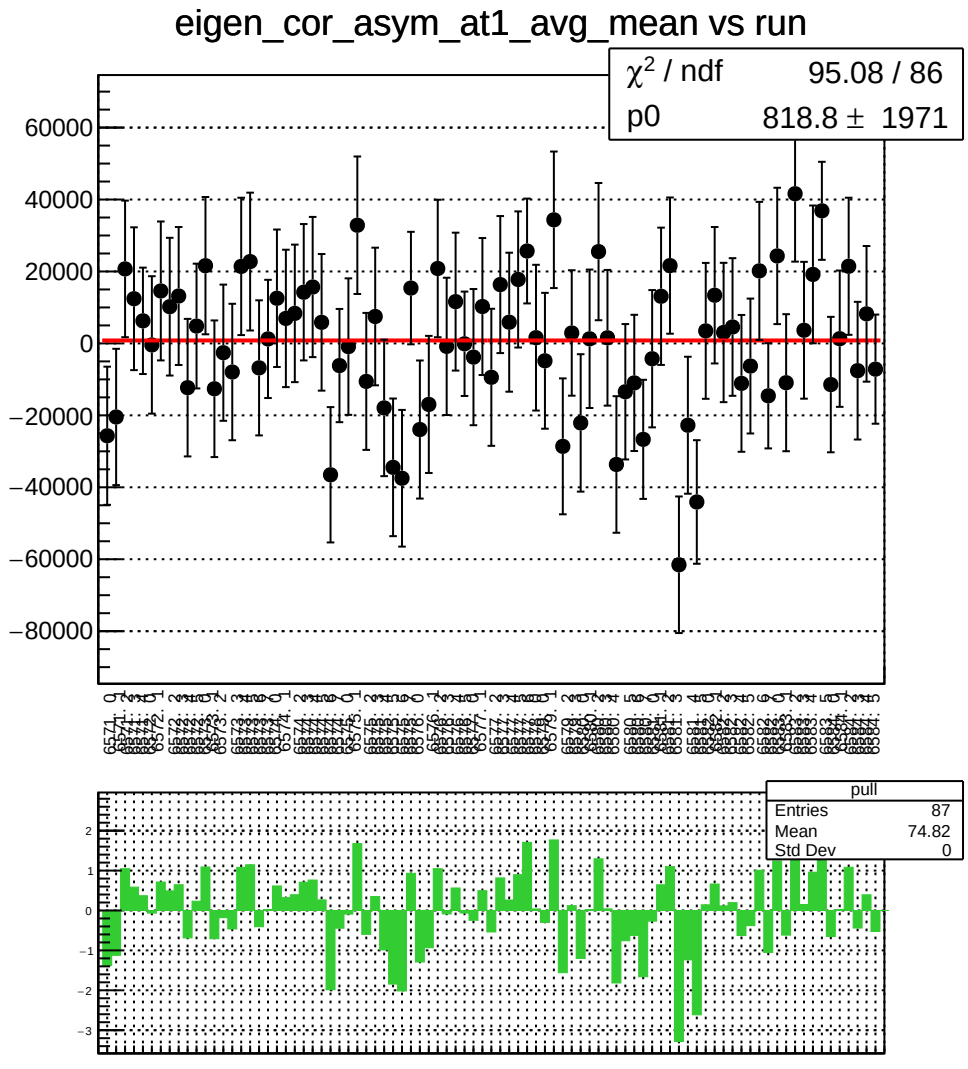

pull1D
Entries 87
Mean −0.008035
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

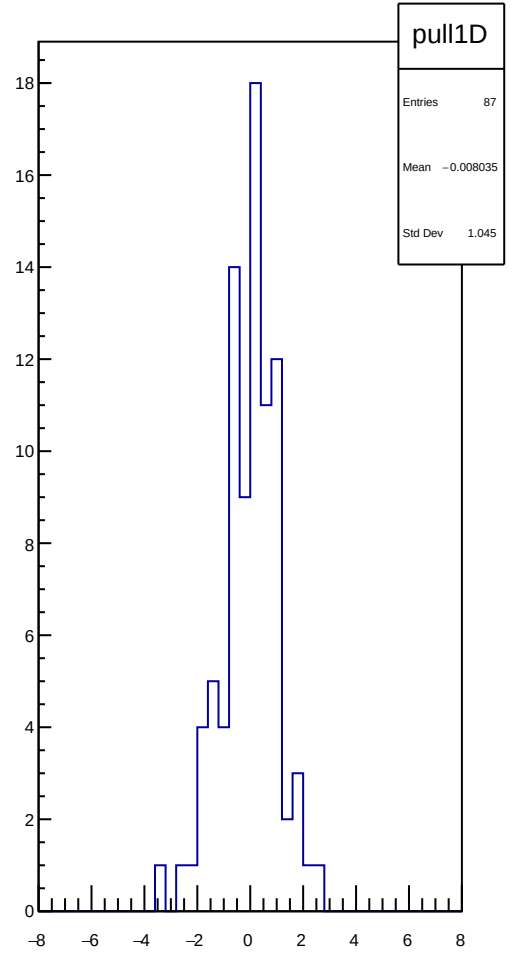

cor_asym_at1_avg_rms vs run
χ² / ndf 263.4 / 86
p0 1810 ± 1.393
1950
1900
1850
1800
1750

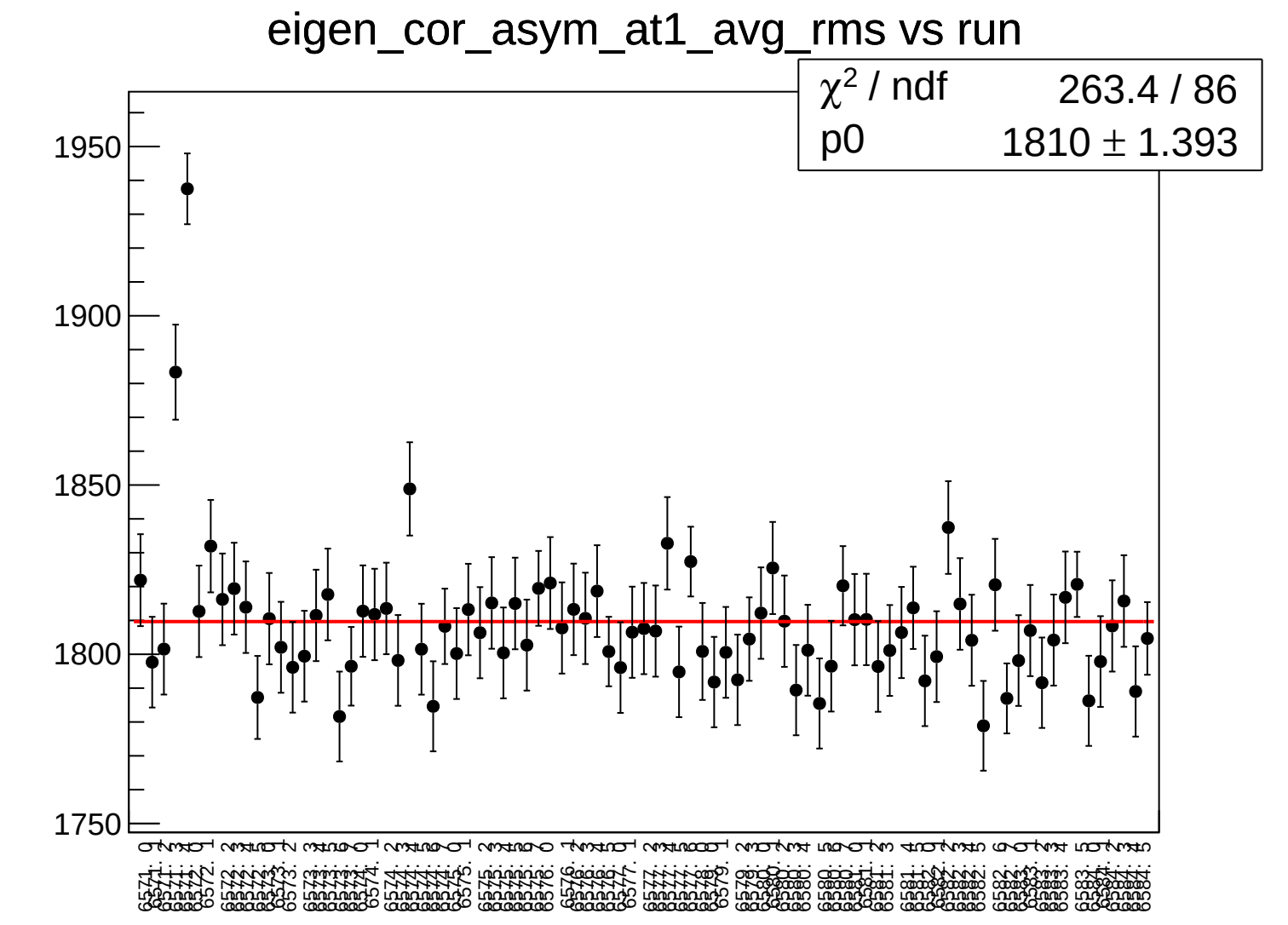

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 96.71 / 86
p0 844 ± 1119
pull
Entries 87
Mean −468.7
Std Dev 0

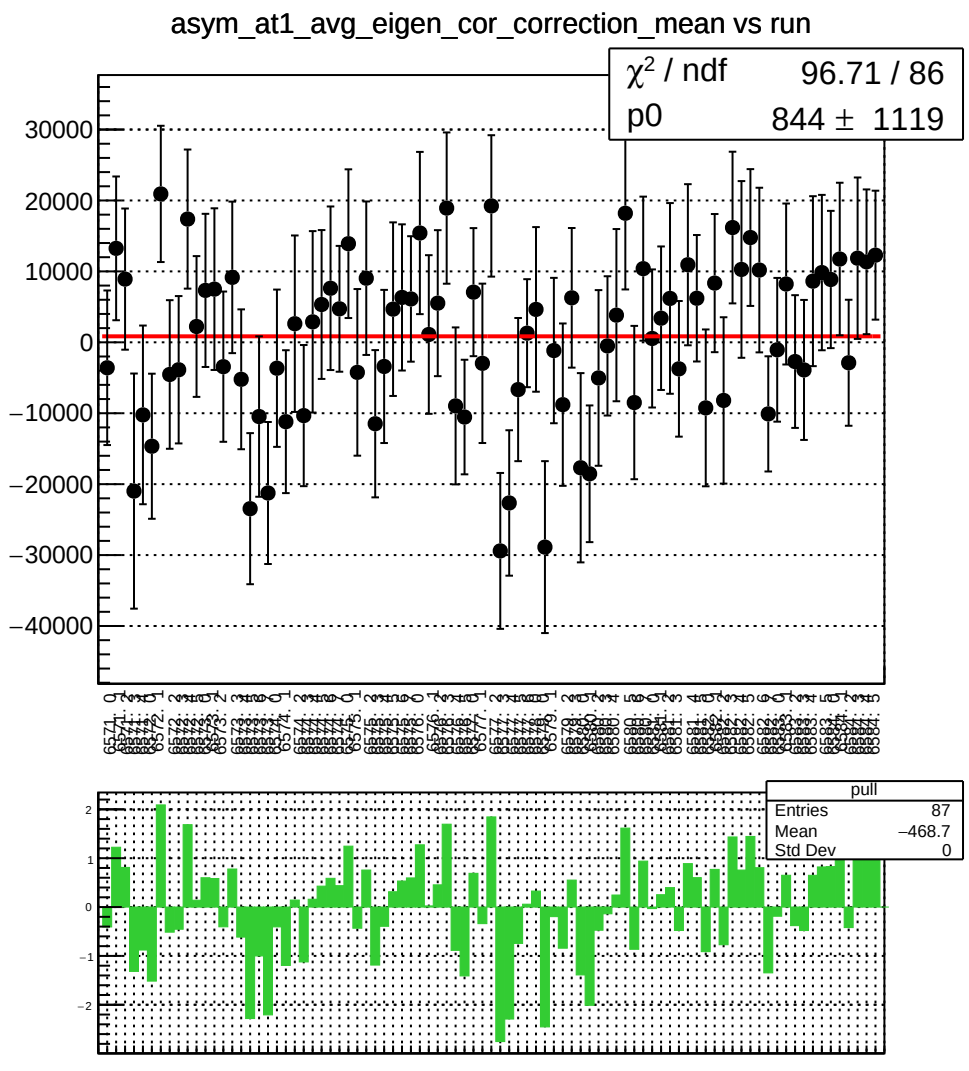

pull1D
Entries 87
Mean −0.008275
Std Dev 1.054

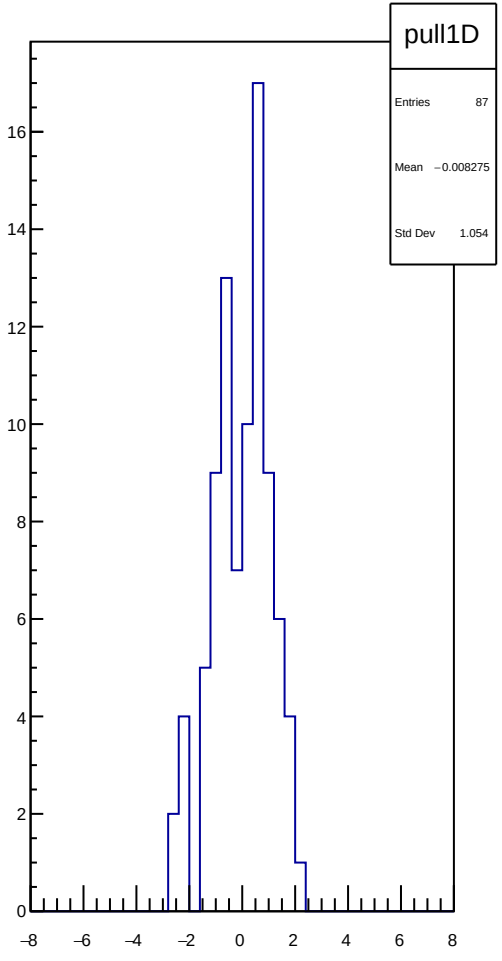

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.108e+04 / 86
p0 1021 ± 0.7913
1700
1600
1500
1400
1300
1200
1100
1000
900
800

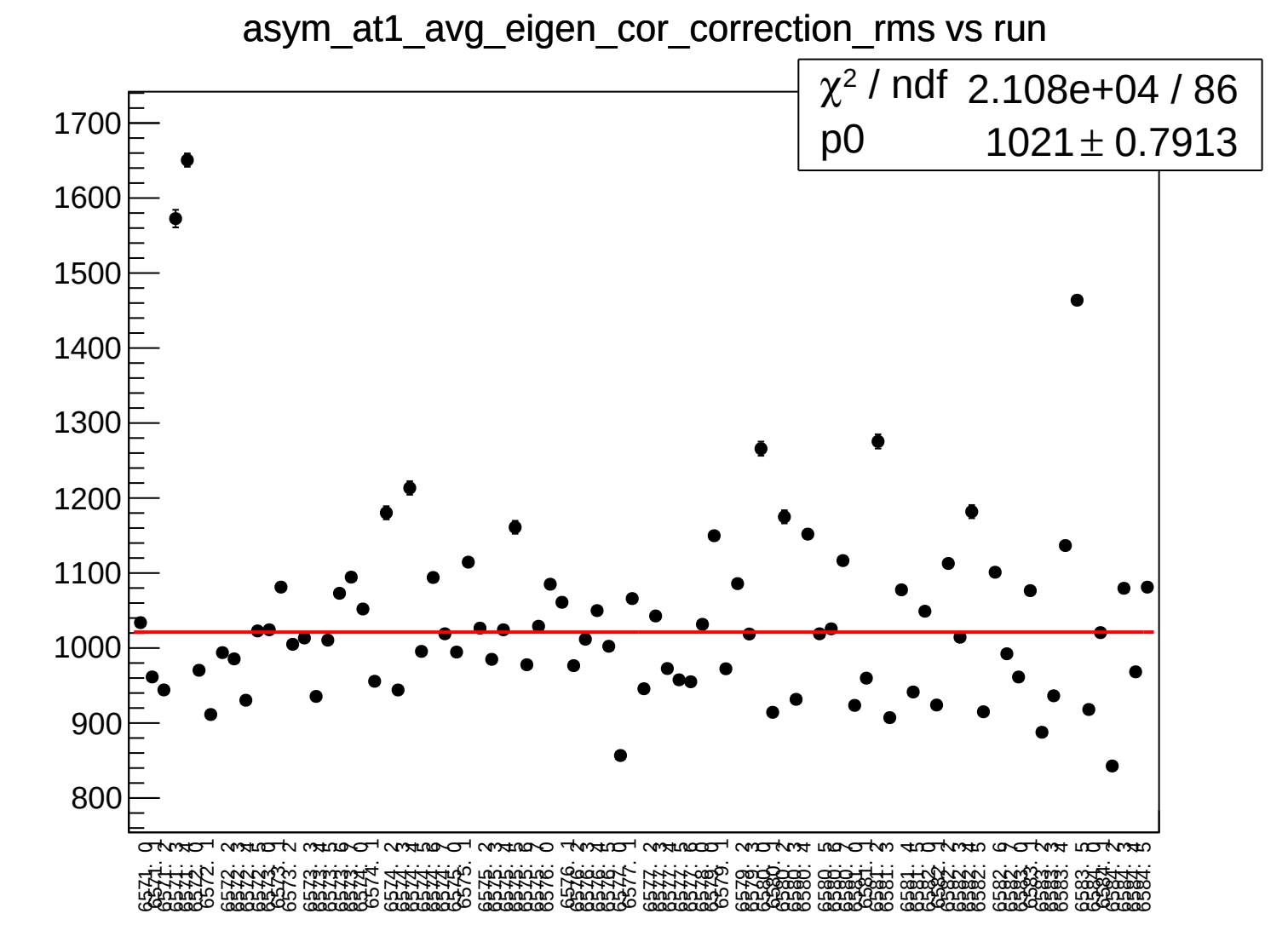

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 95.08 / 86
p0 818.8 ± 1971
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 74.82
Std Dev 0
2
1
0
−1
−2
−3

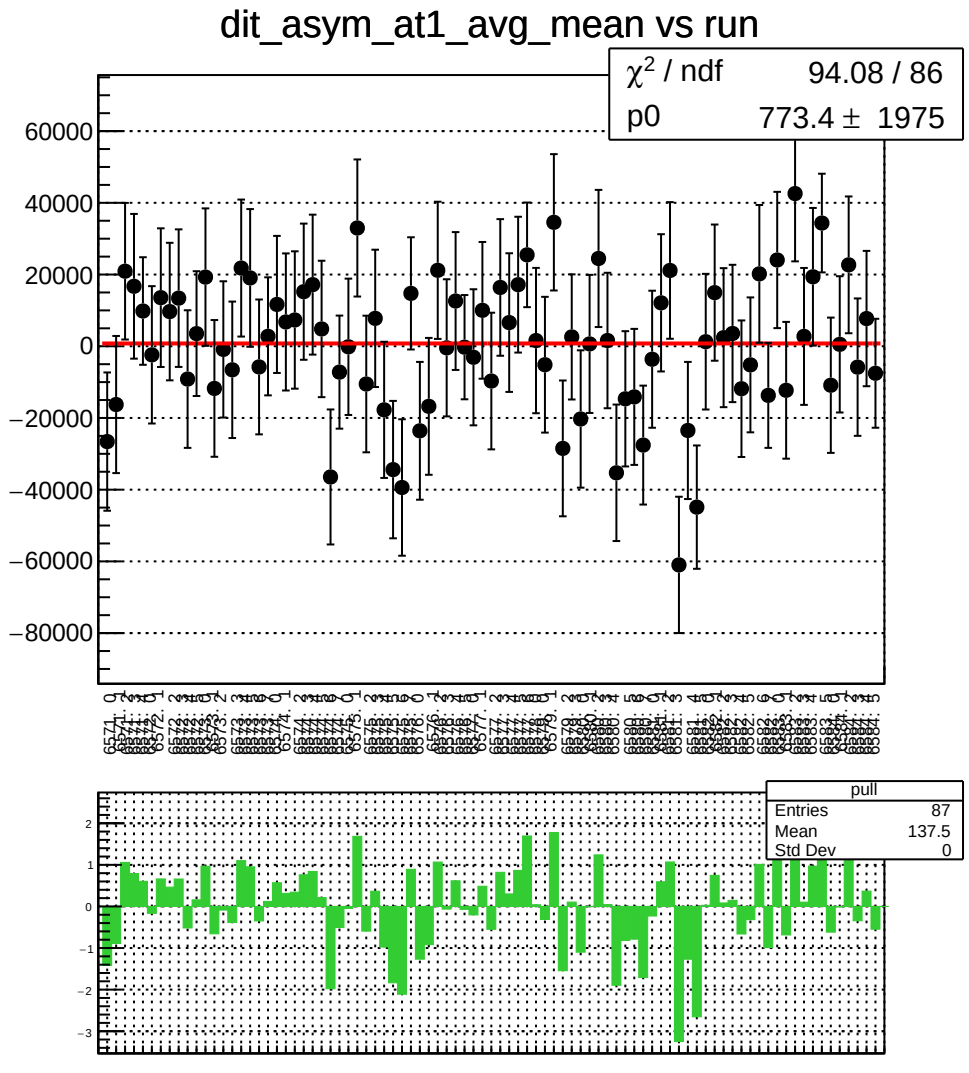

pull1D
Entries 87
Mean −0.008035
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

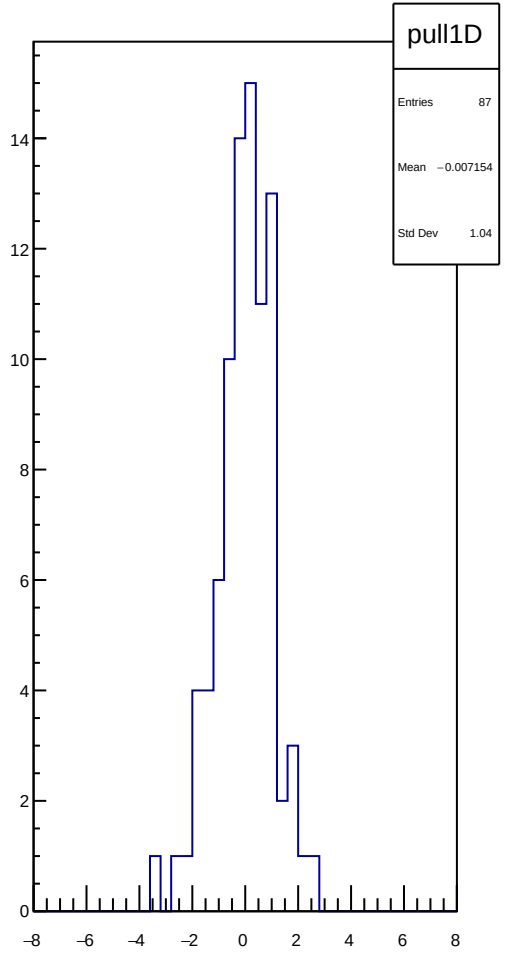

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 263.4 / 86
p0 1810 ± 1.393
1950
1900
1850
1800
1750

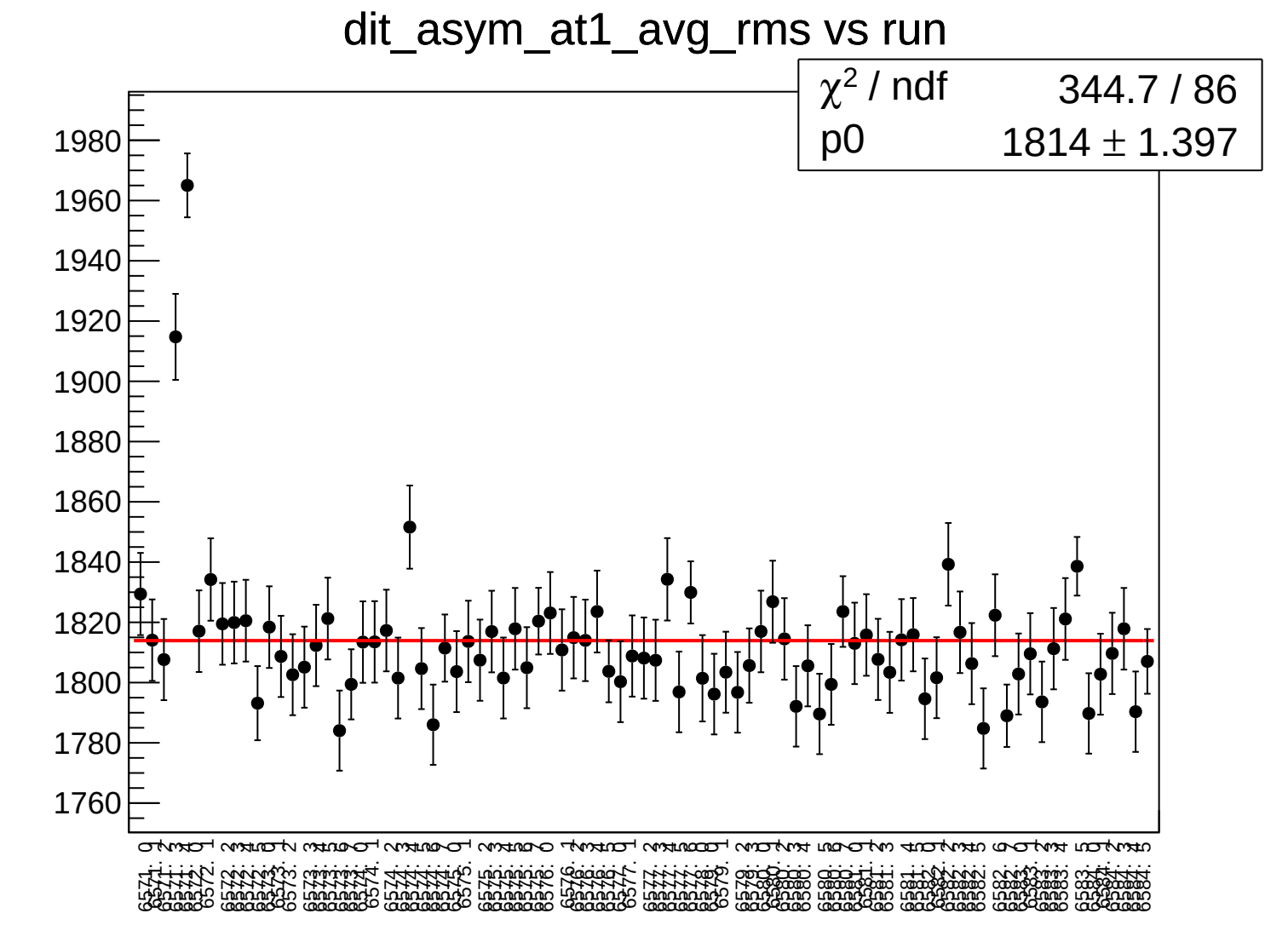

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.71 / 86
p0 844 ± 1119
pull
Entries 87
Mean −468.7
Std Dev 0

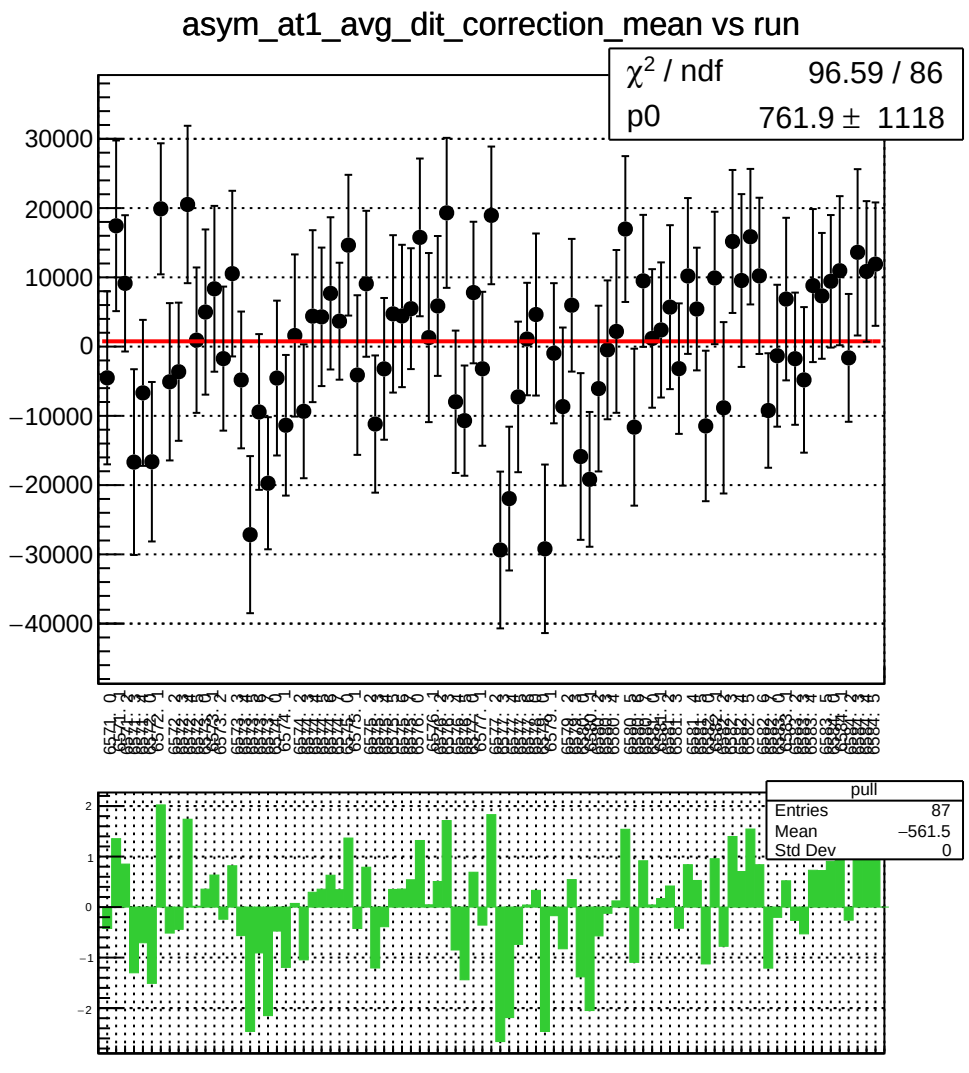

pull1D
Entries 87
Mean −0.008275
Std Dev 1.054

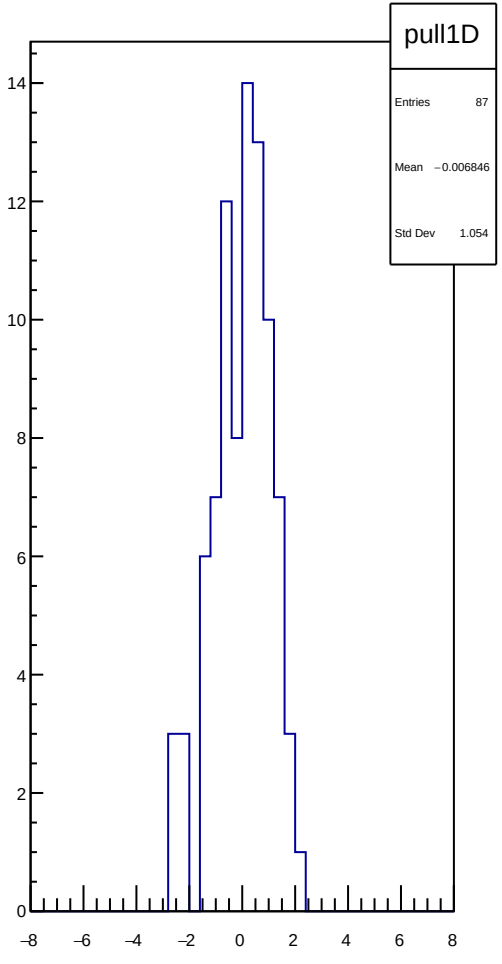

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.108e+04 / 86
p0 1021 ± 0.7913
1700
1600
1500
1400
1300
1200
1100
1000
900
800

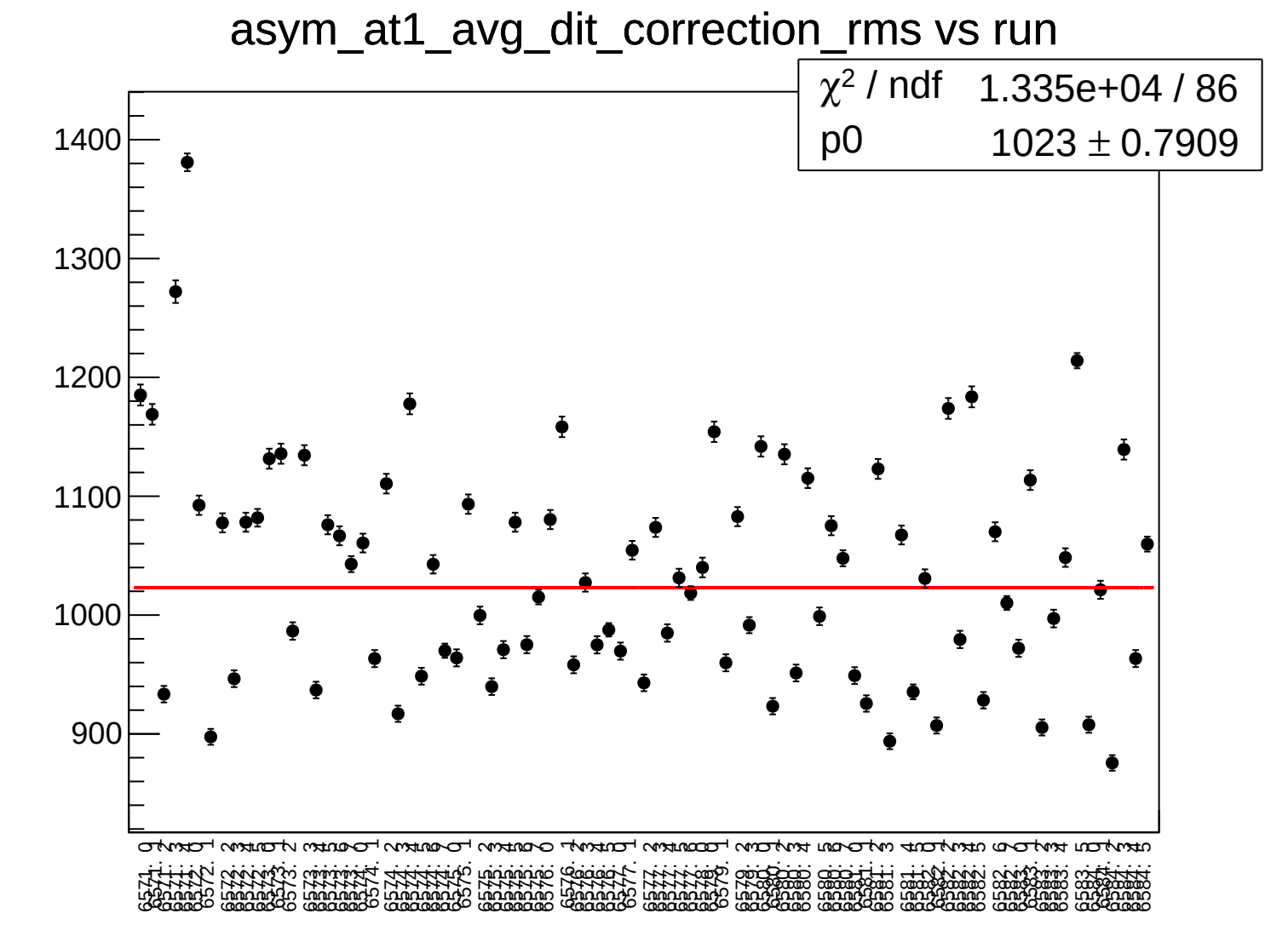

dit_asym_at1_avg_mean vs run
χ² / ndf 94.08 / 86
p0 773.4 ± 1975
pull
Entries 87
Mean 137.5
Std Dev 0

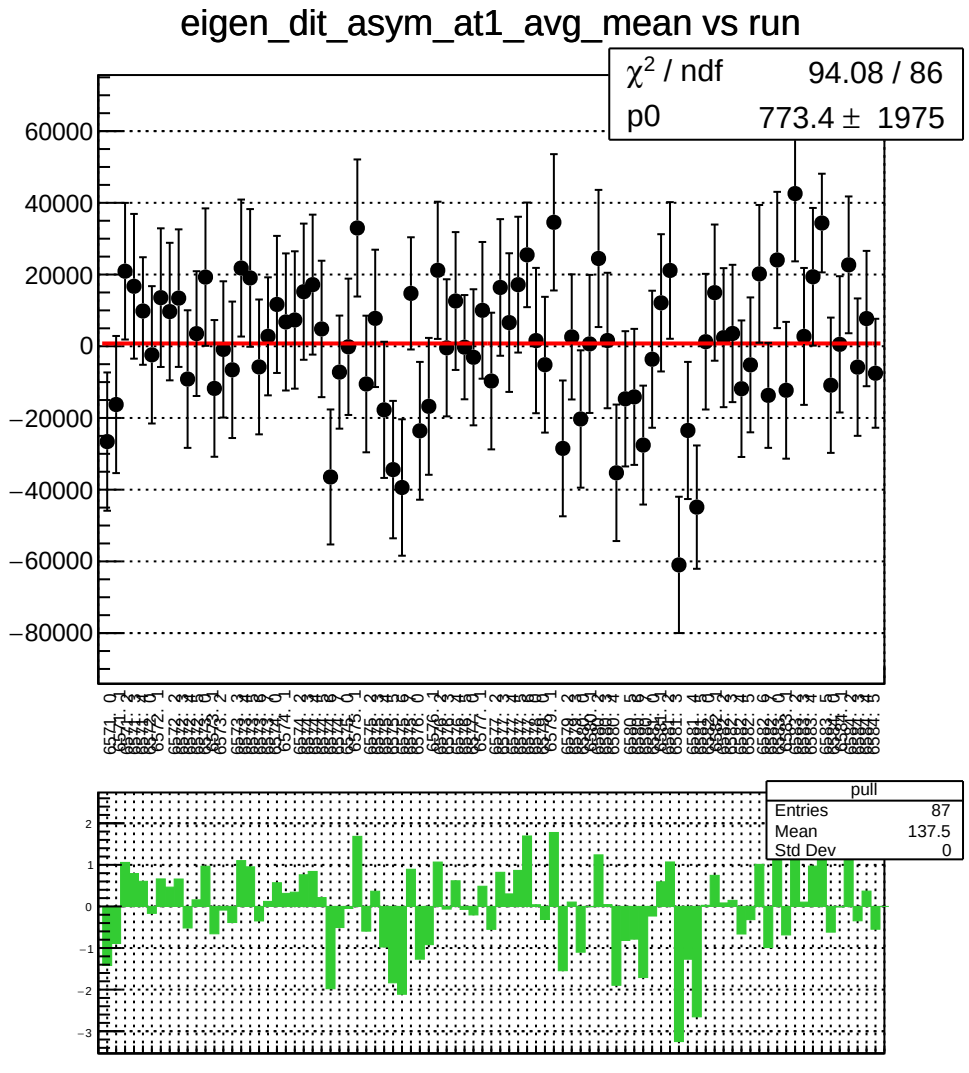

pull1D
Entries 87
Mean −0.007154
Std Dev 1.04

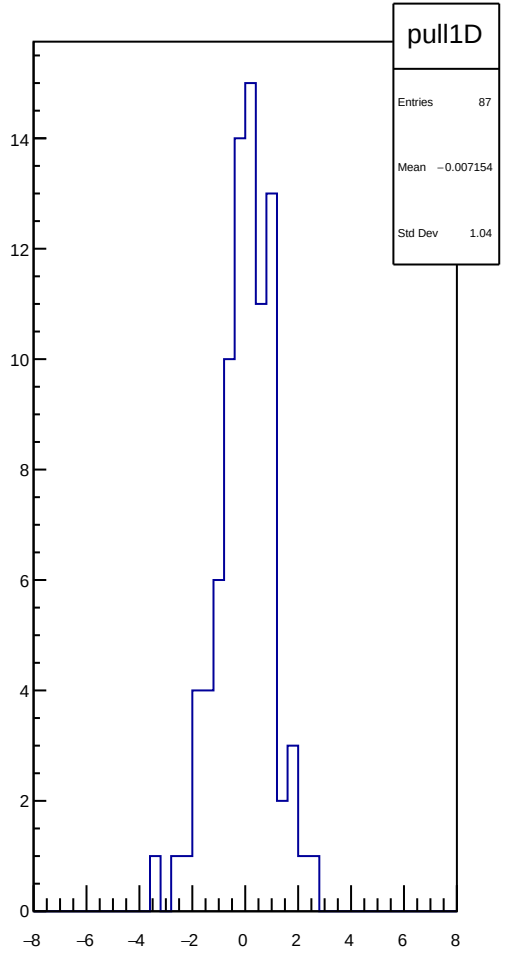

dit_asym_at1_avg_rms vs run
χ² / ndf 344.7 / 86
p0 1814 ± 1.397
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

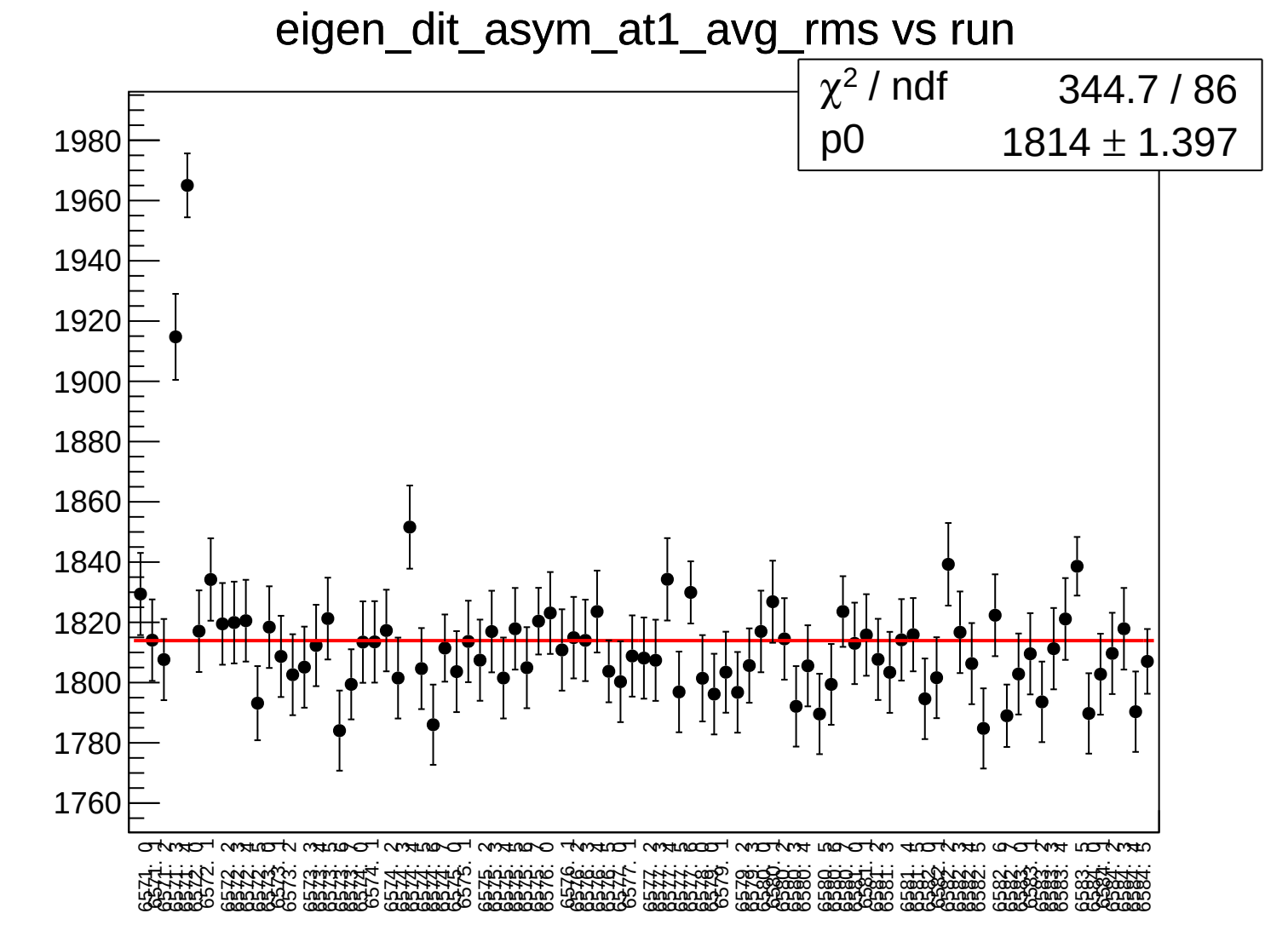

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 96.59 / 86
p0 761.9 ± 1118
pull
Entries 87
Mean −561.5
Std Dev 0

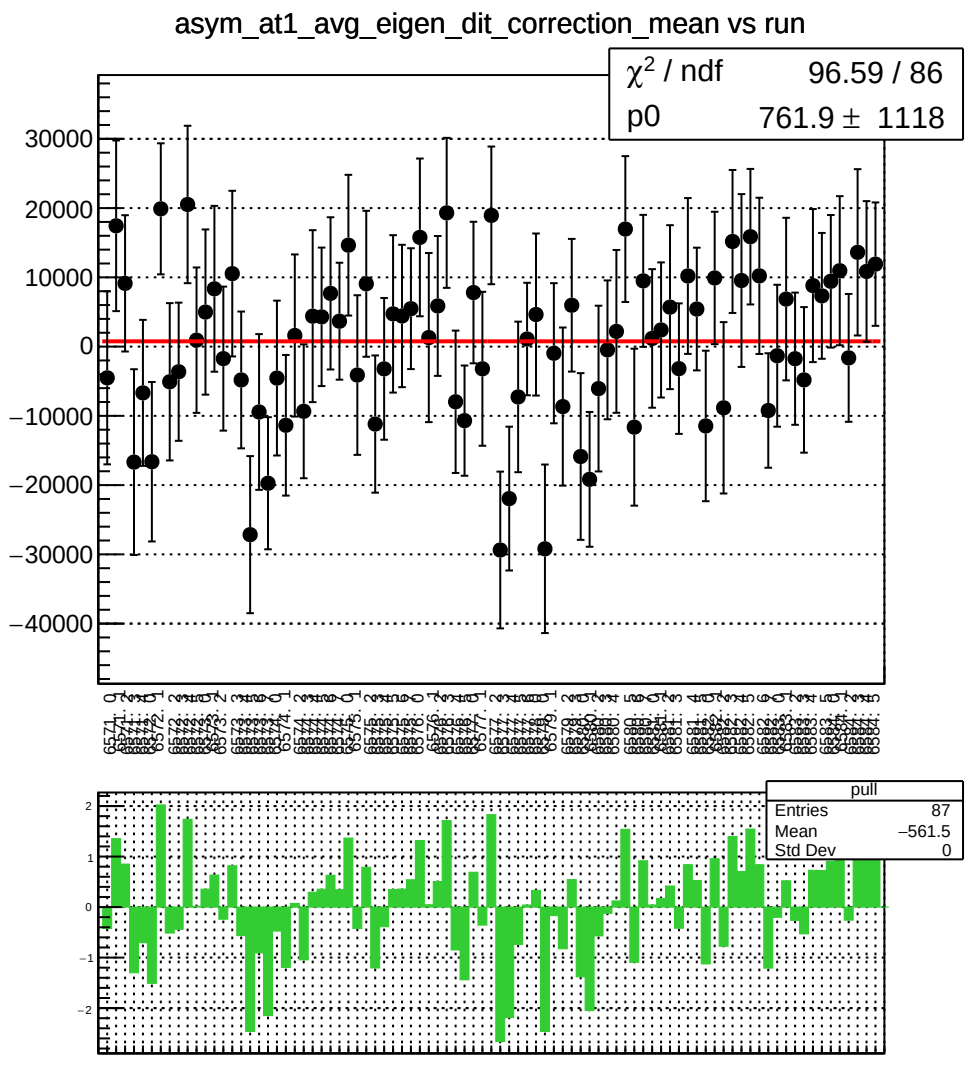

pull1D
Entries 87
Mean −0.006846
Std Dev 1.054

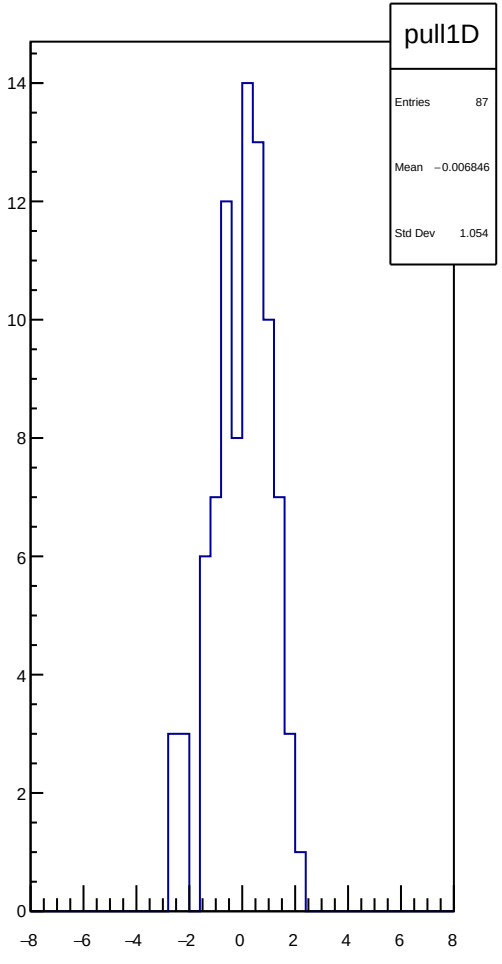

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.335e+04 / 86
p0 1023 ± 0.7909
1400
1300
1200
1100
1000
900

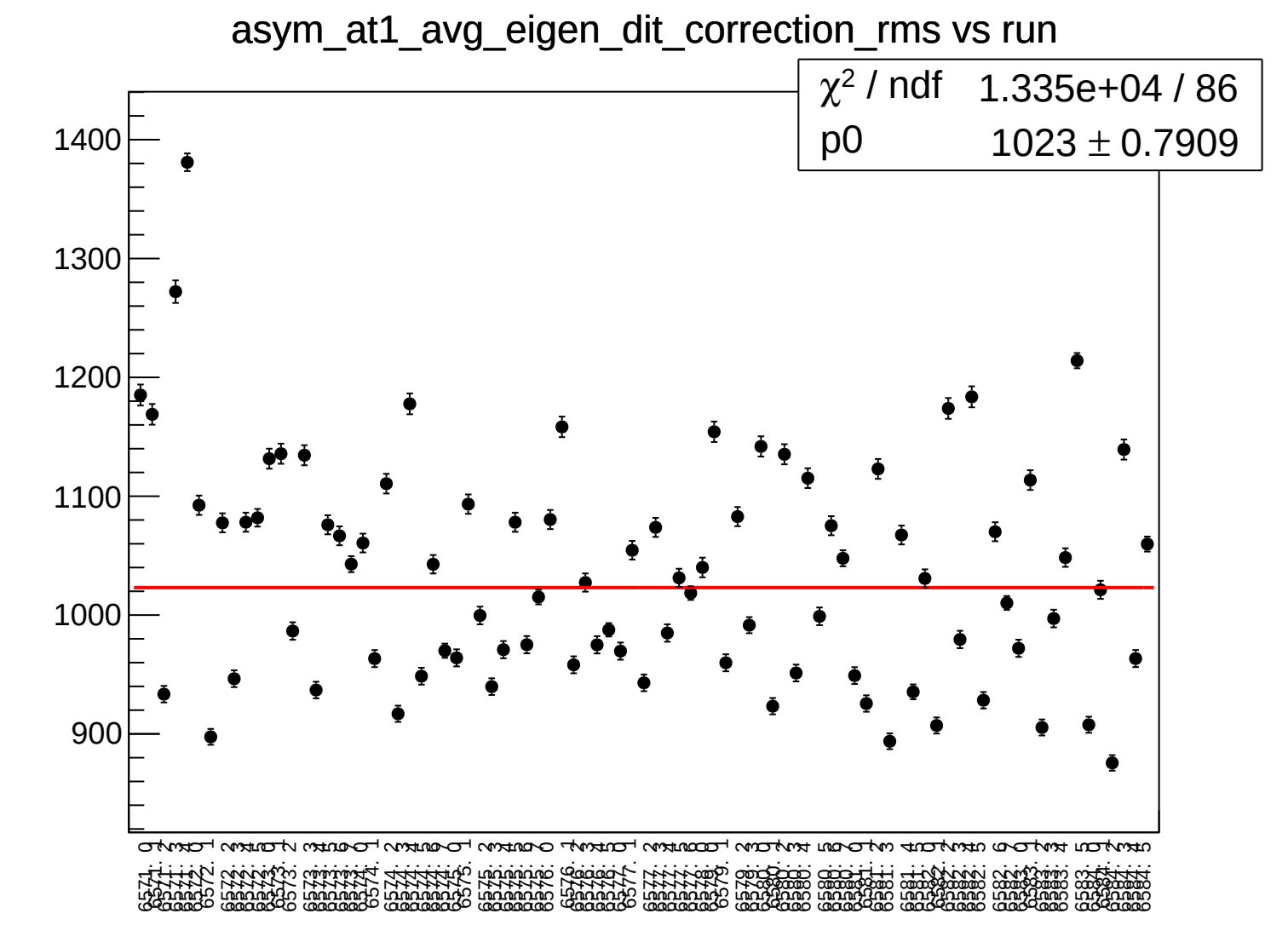

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 94.08 / 86
p0 773.4 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 137.5
Std Dev 0
2
1
0
−1
−2
−3

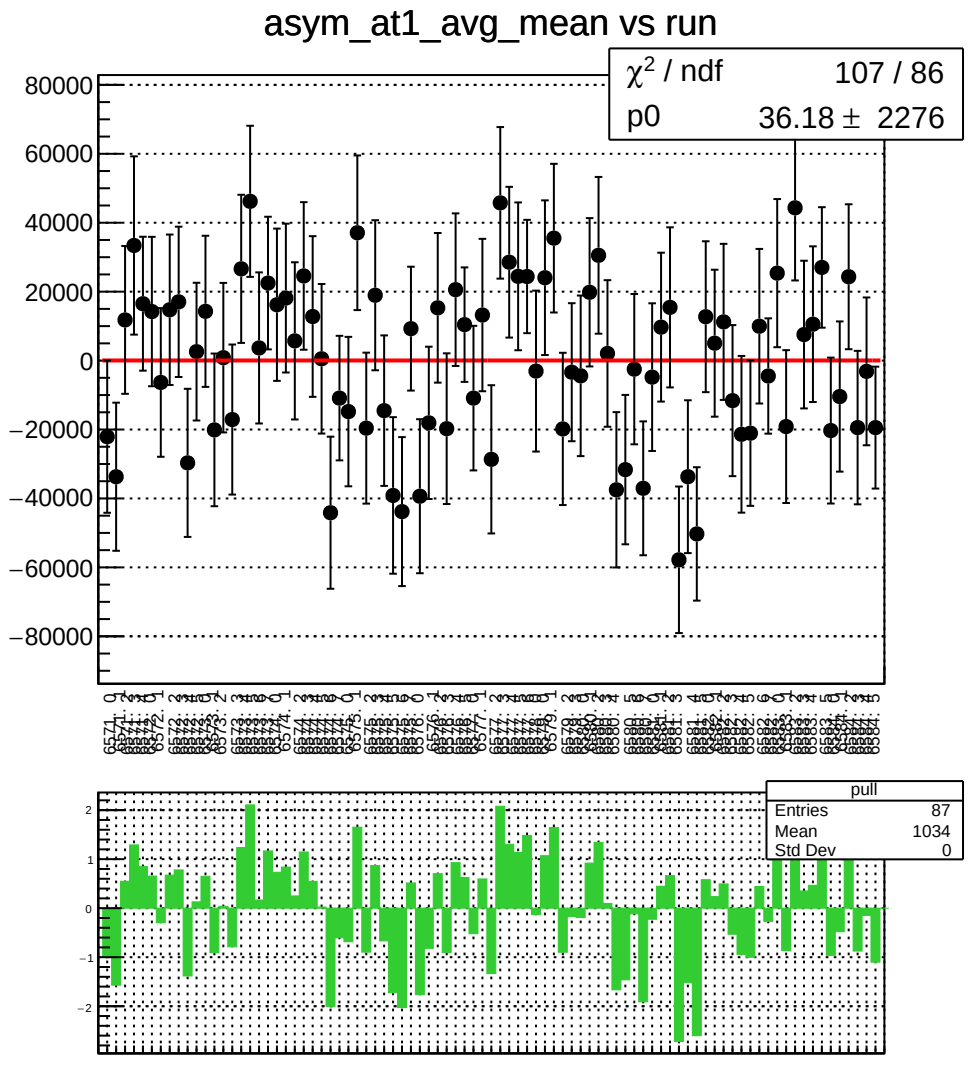

pull1D
Entries 87
Mean −0.007154
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

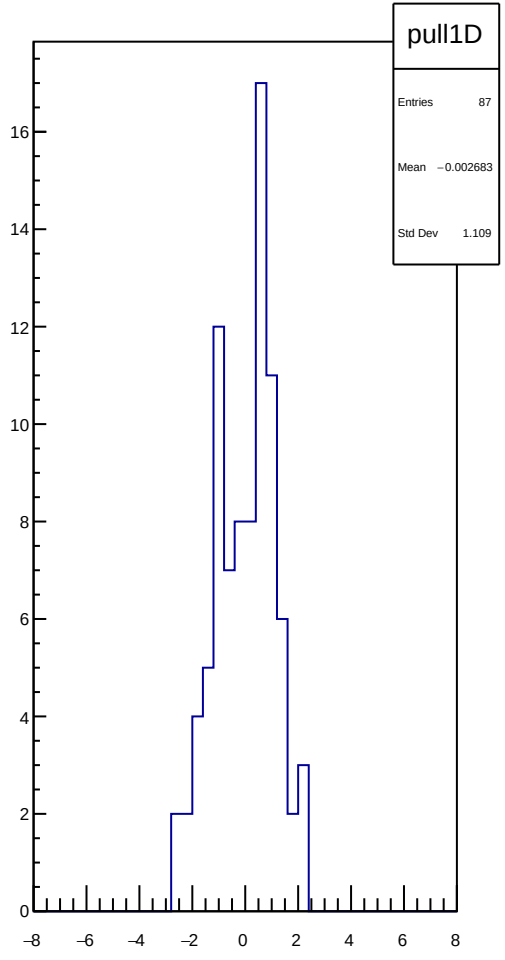

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 344.7 / 86
p0 1814 ± 1.397
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

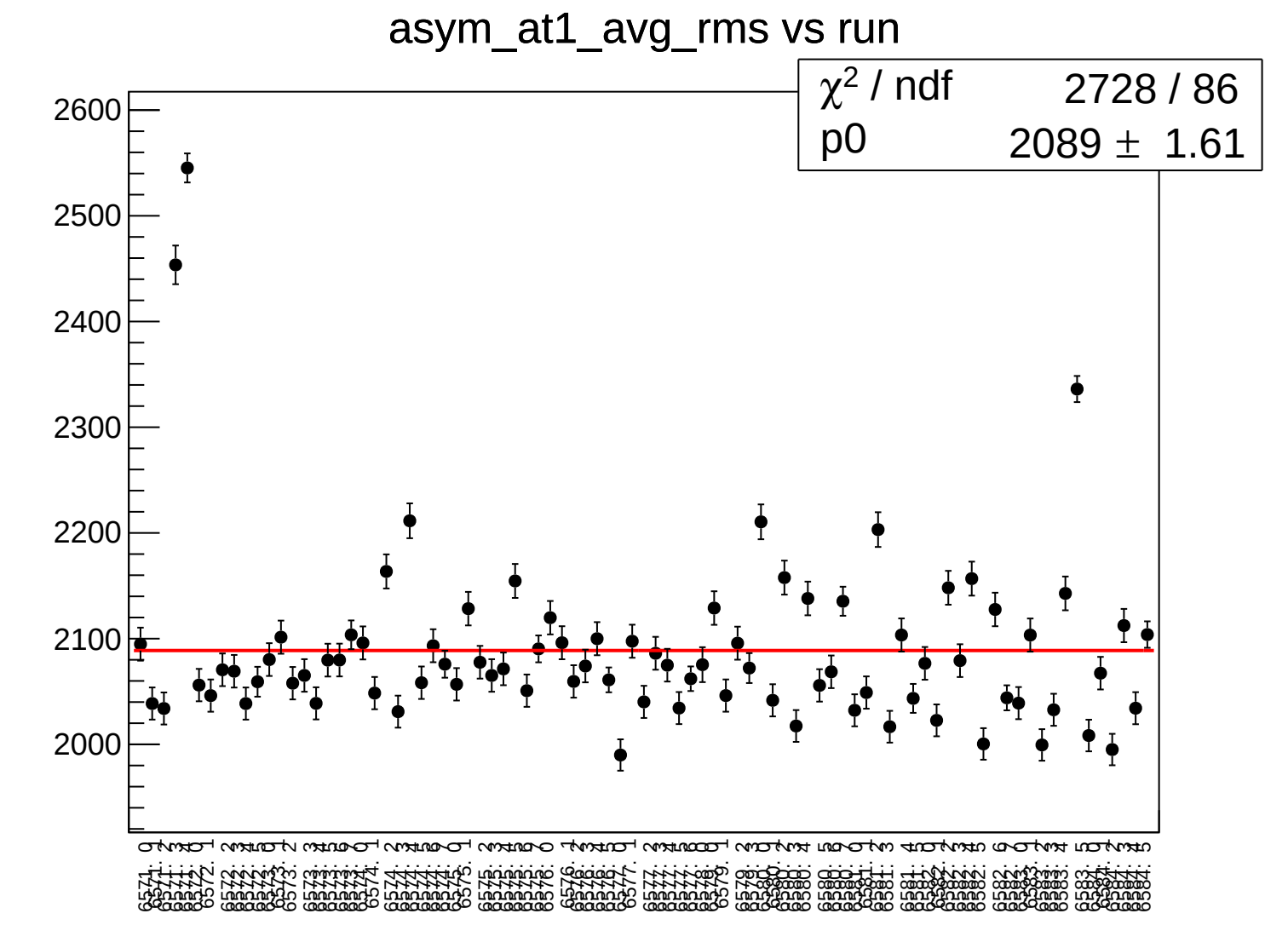

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.59 / 86
p0 761.9 ± 1118
pull
Entries 87
Mean −561.5
Std Dev 0

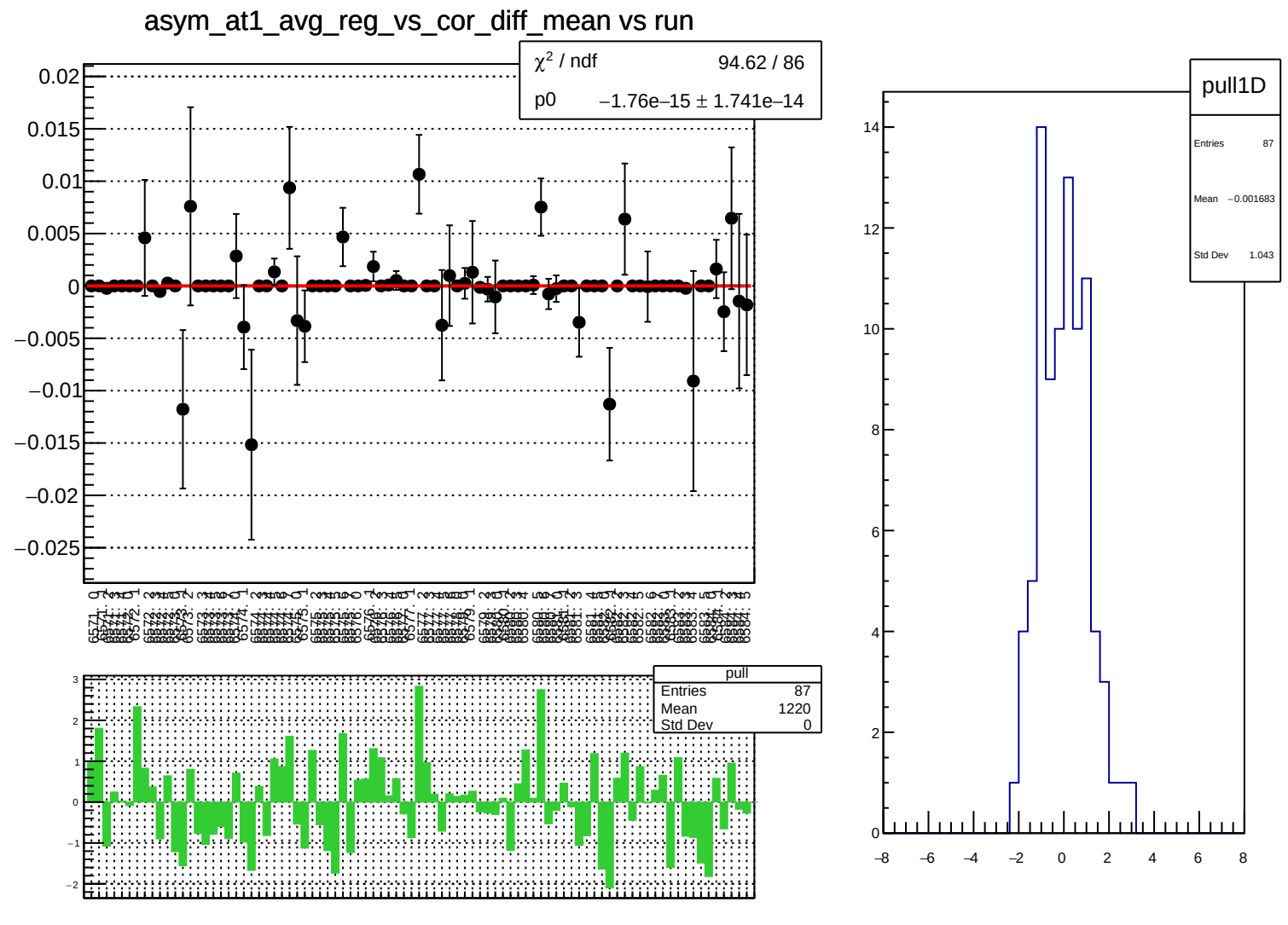

pull1D
Entries 87
Mean −0.006846
Std Dev 1.054

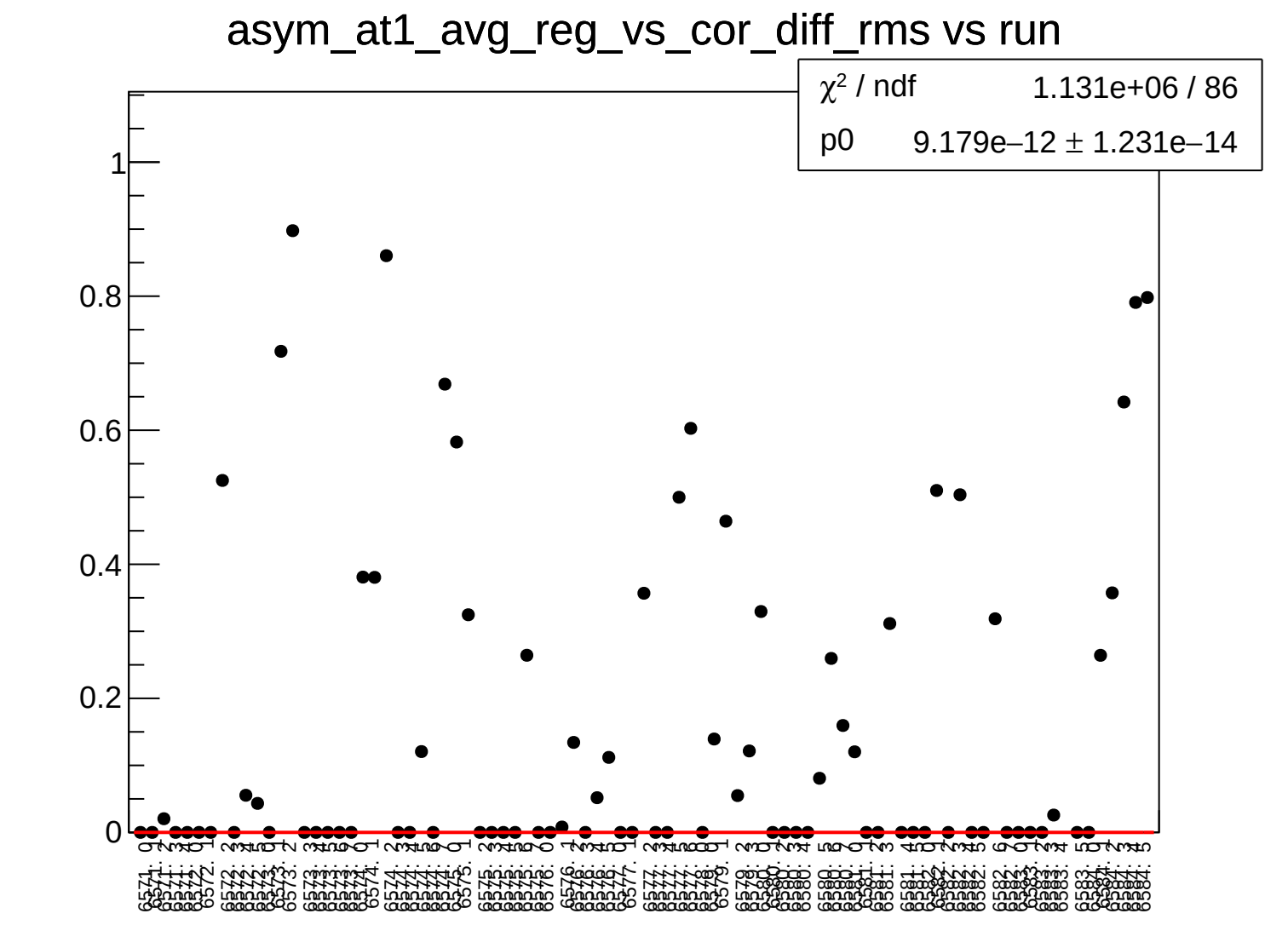

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.335e+04 / 86
p0 1023 ± 0.7909
1400
1300
1200
1100
1000
900

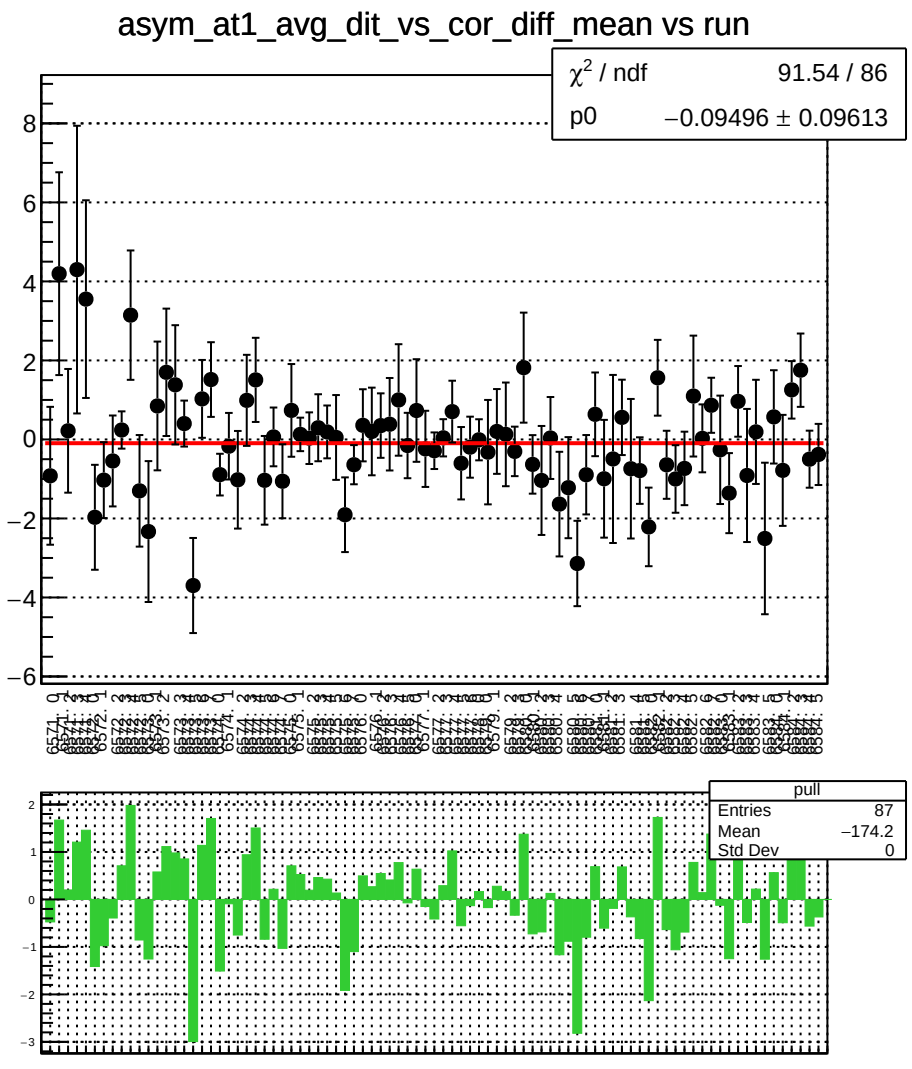

asym_at1_avg_mean vs run
χ² / ndf 107 / 86
p0 36.18 ± 2276
pull
Entries 87
Mean 1034
Std Dev 0

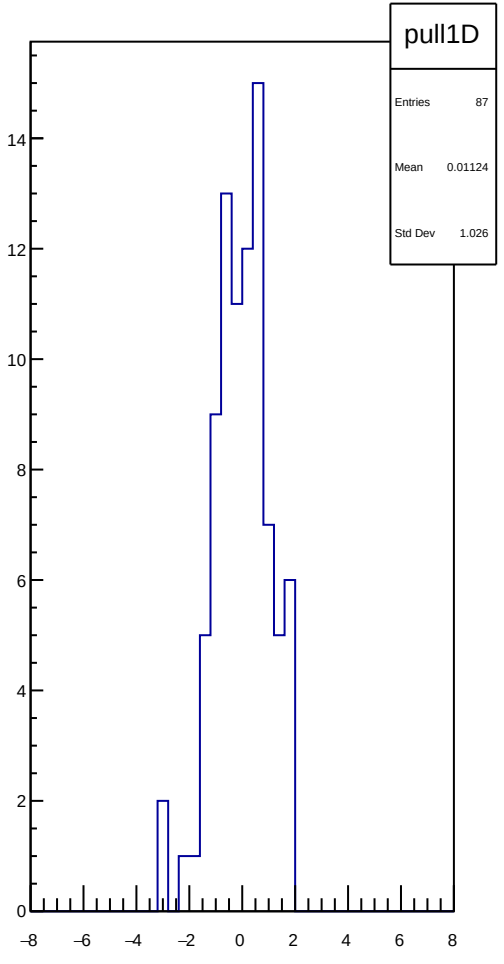

pull1D
Entries 87
Mean −0.002683
Std Dev 1.109

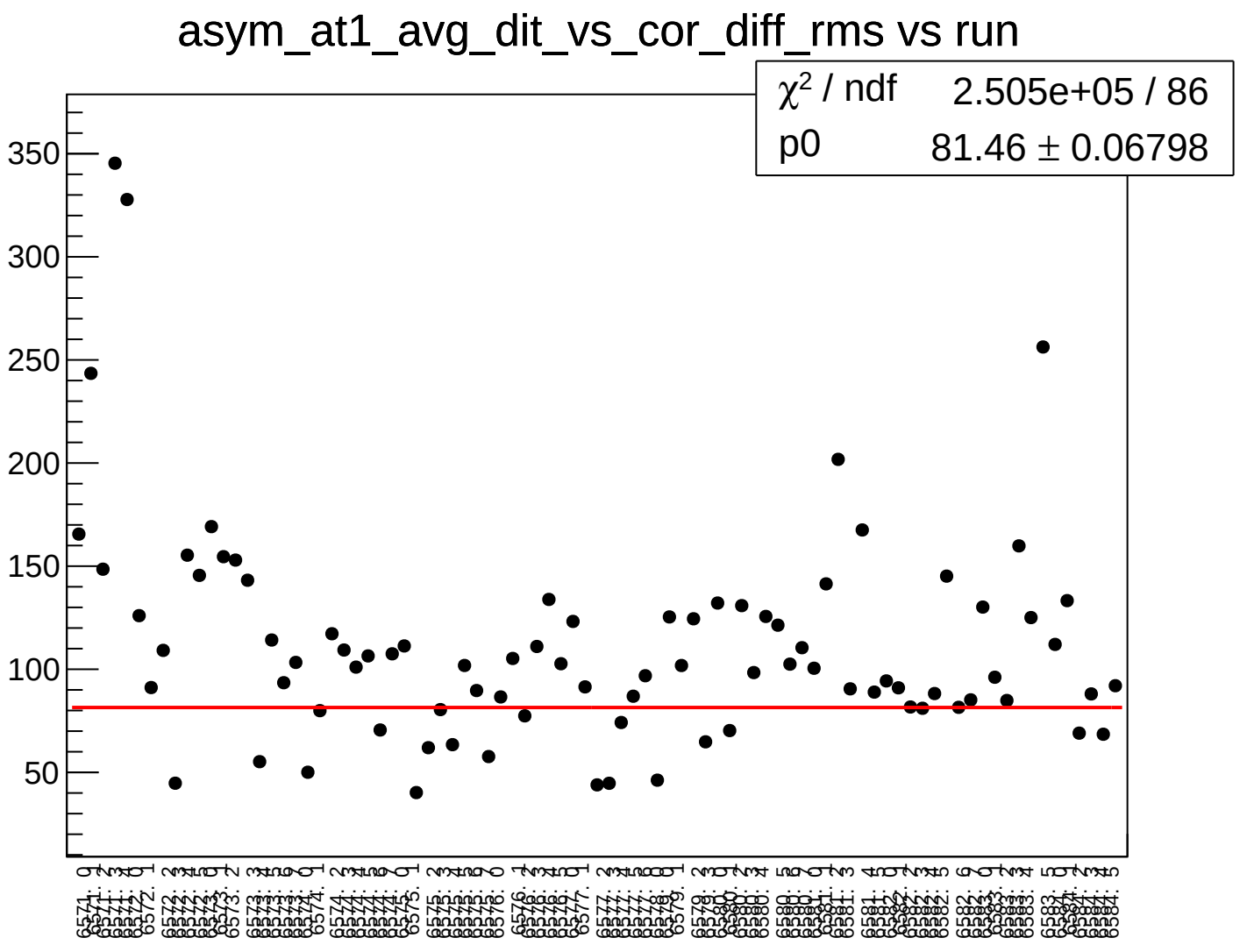

asym_at1_avg_rms vs run
χ² / ndf 2728 / 86
p0 2089 ± 1.61
2600
2500
2400
2300
2200
2100
2000

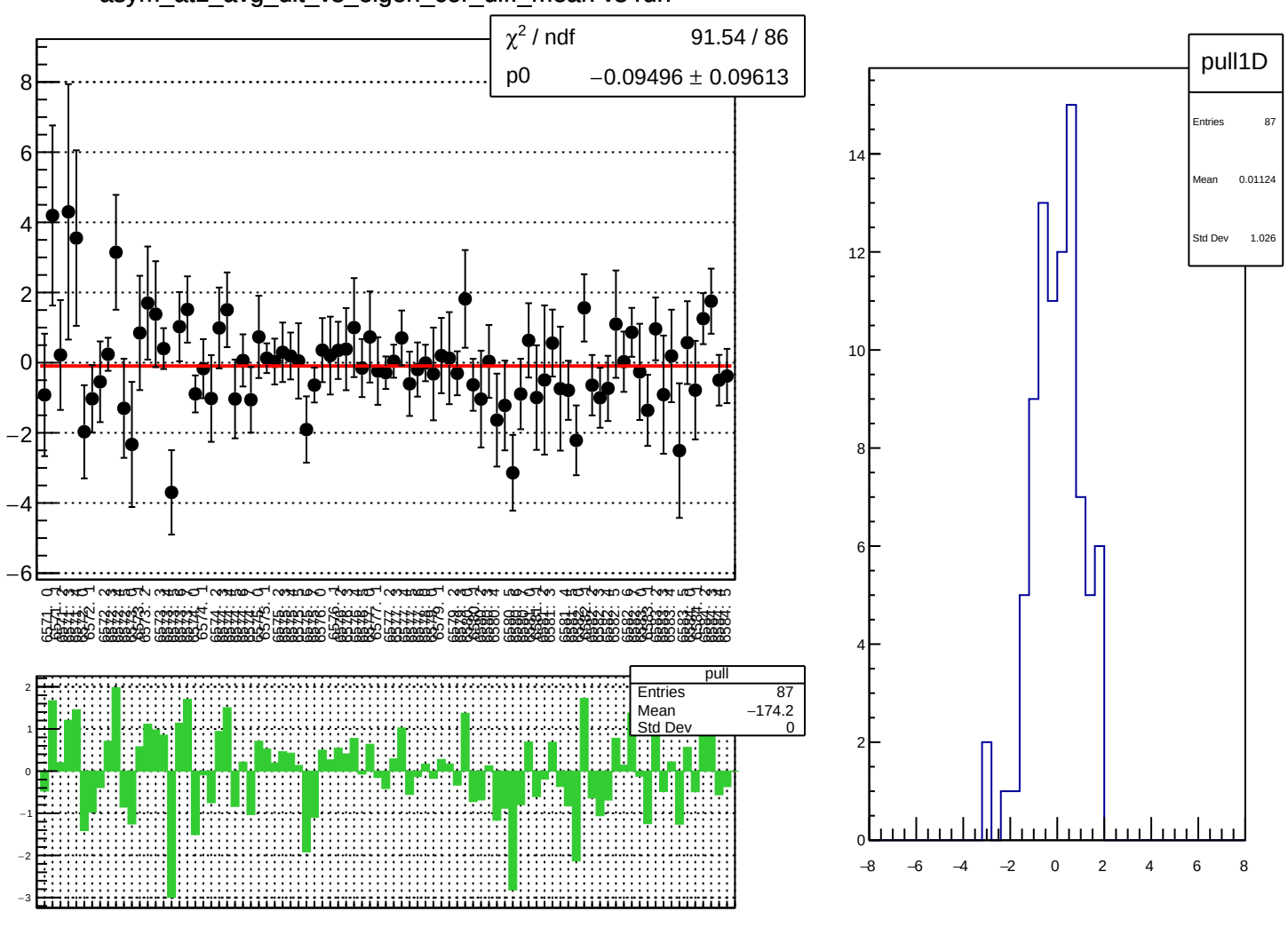

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.62 / 86
p0 −1.76e−15 ± 1.741e−14
pull
Entries 87
Mean 1220
Std Dev 0
pull1D
Entries 87
Mean −0.001683
Std Dev 1.043

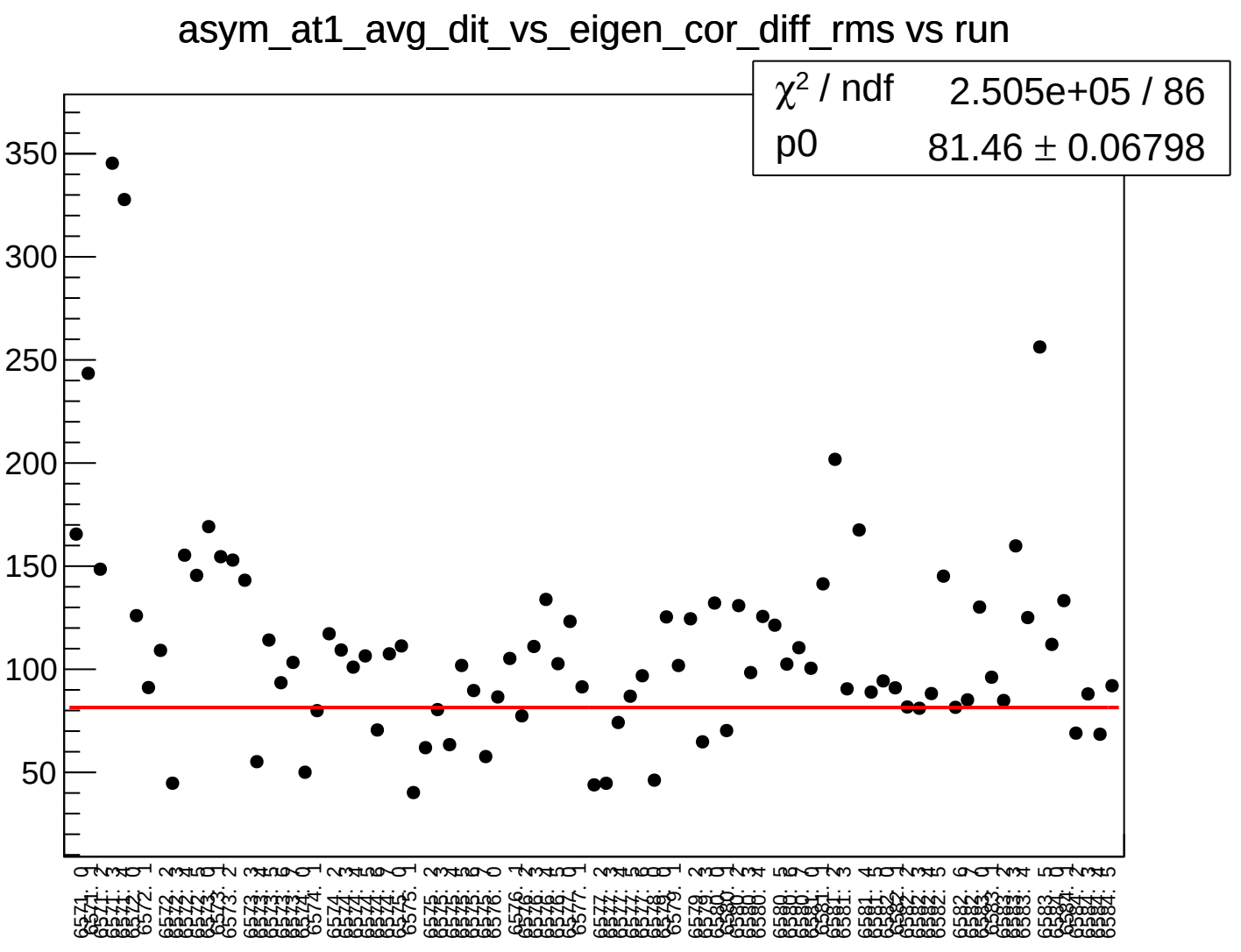

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.131e+06 / 86
p0 9.179e−12 ± 1.231e−14
1
0.8
0.6
0.4
0.2
0

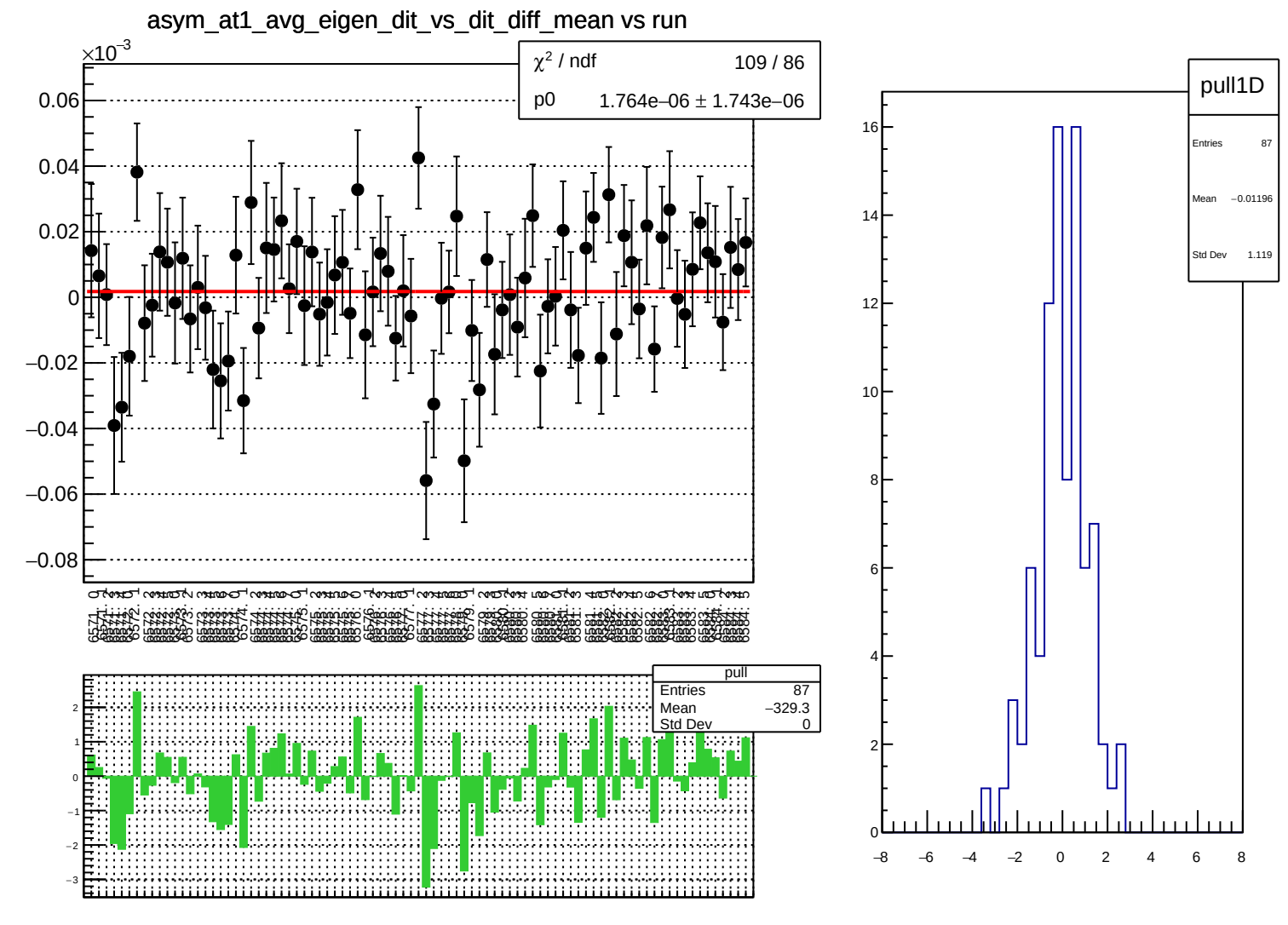

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.54 / 86
p0 −0.09496 ± 0.09613
pull
Entries 87
Mean −174.2
Std Dev 0

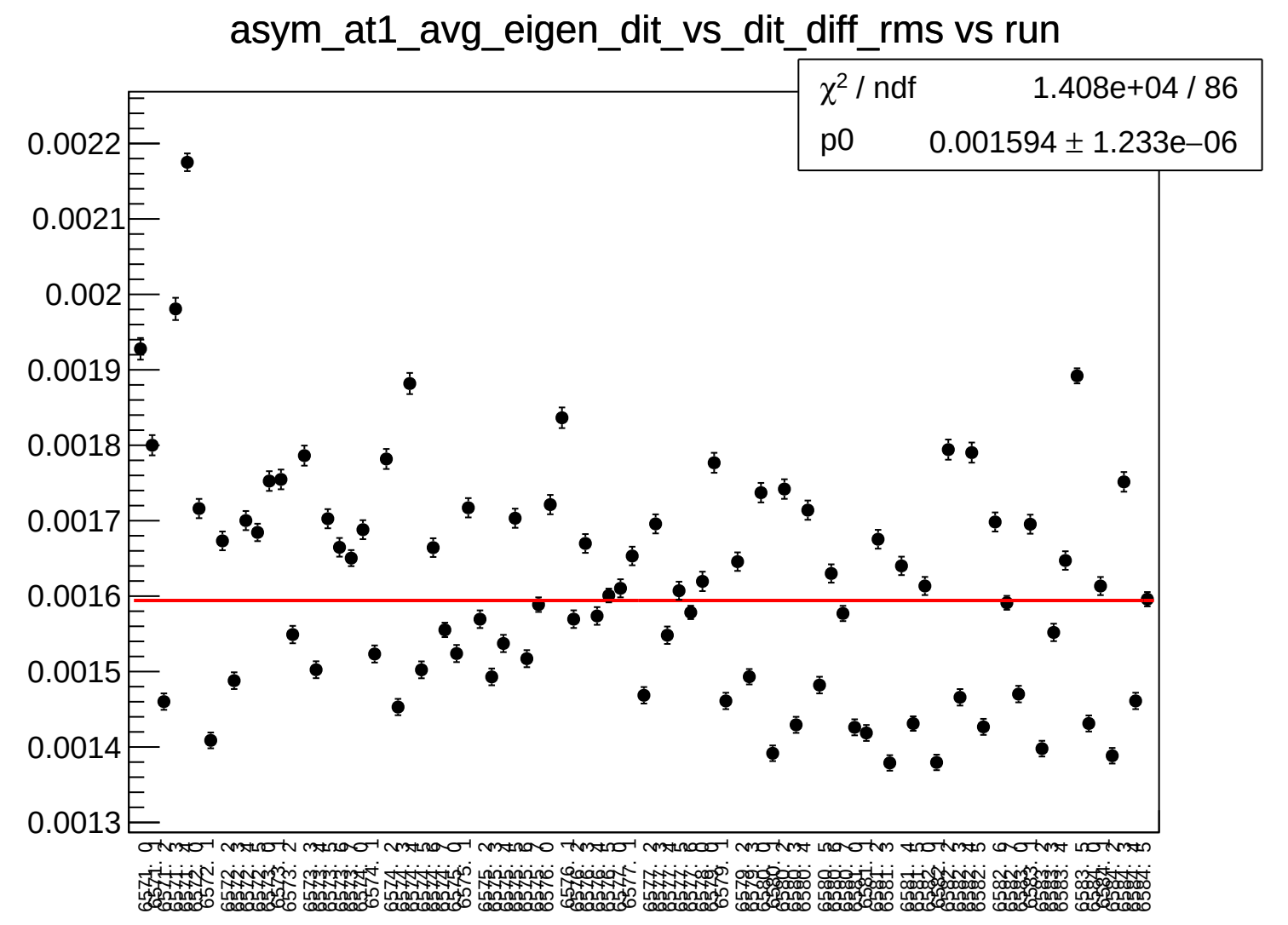

pull1D
Entries 87
Mean 0.01124
Std Dev 1.026

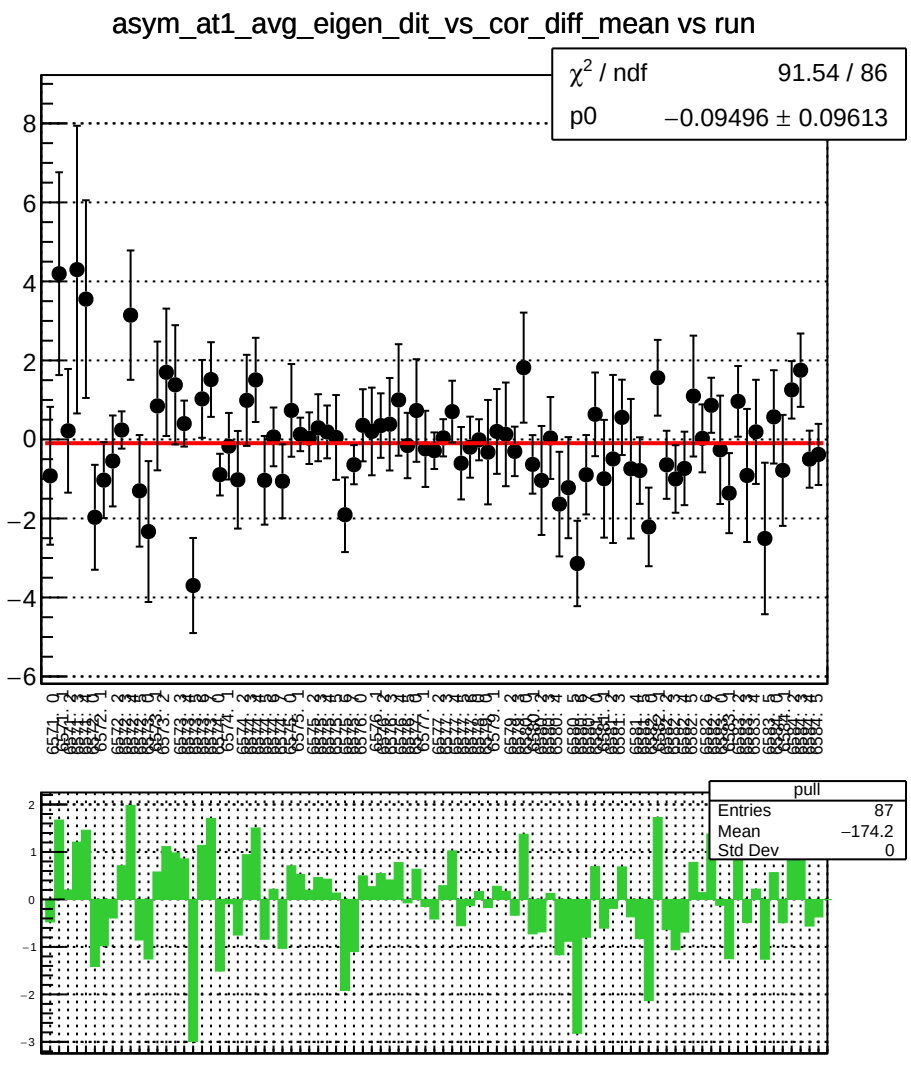

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.505e+05 / 86
p0 81.46 ± 0.06798
350
300
250
200
150
100
50

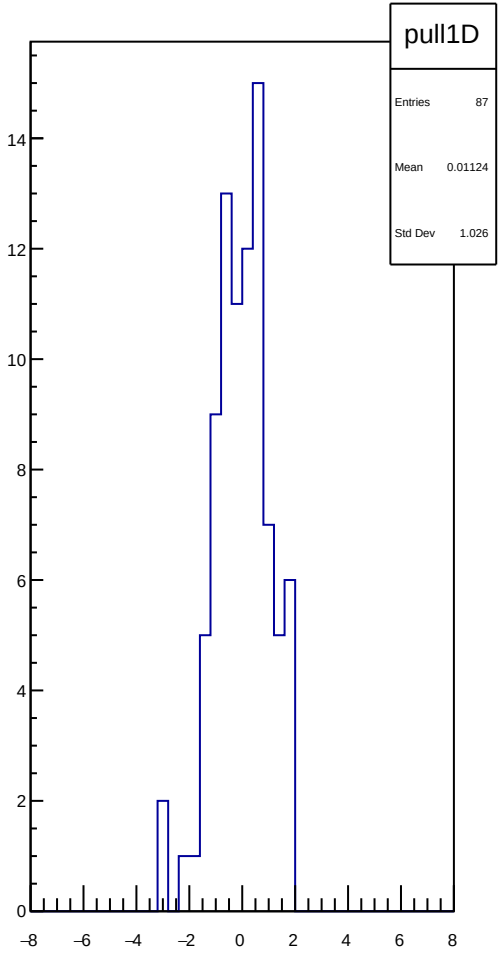

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.54 / 86
p0 −0.09496 ± 0.09613
pull
Entries 87
Mean −174.2
Std Dev 0
pull1D
Entries 87
Mean 0.01124
Std Dev 1.026

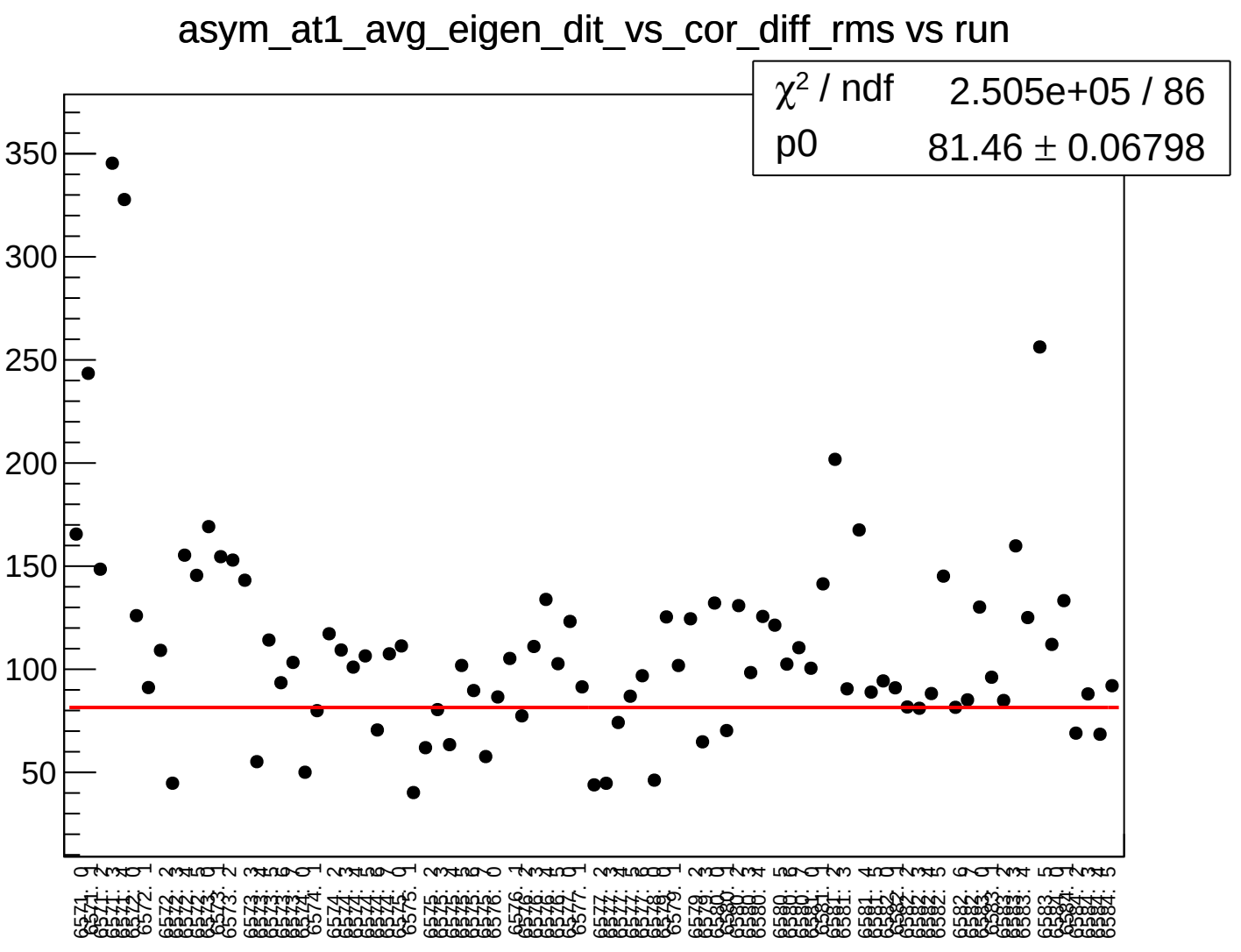

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.505e+05 / 86
p0 81.46 ± 0.06798
350
300
250
200
150
100
50

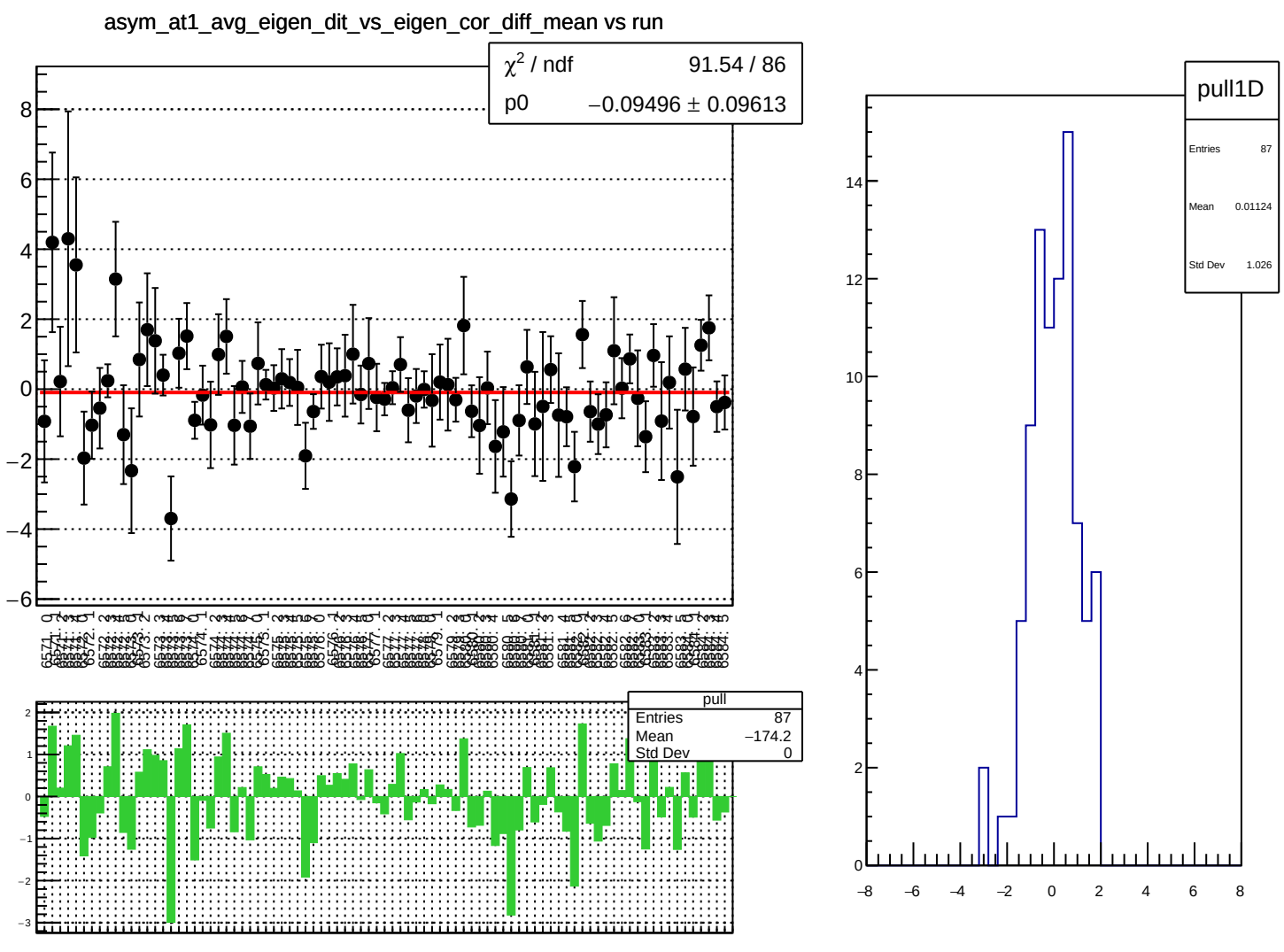

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109 / 86
p0 1.764e−06 ± 1.743e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 87
Mean −329.3
Std Dev 0
pull1D
Entries 87
Mean −0.01196
Std Dev 1.119

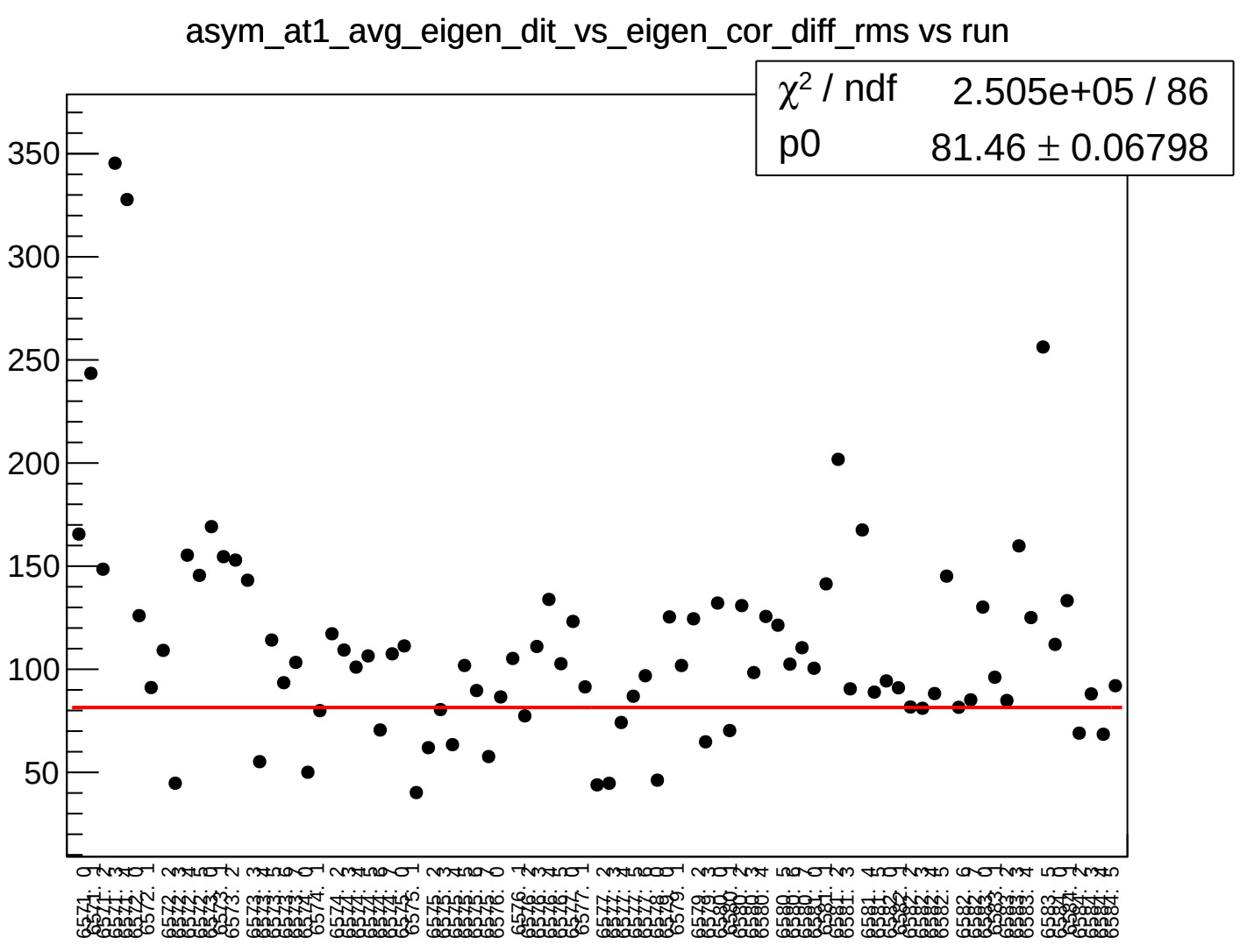

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.408e+04 / 86
p0 0.001594 ± 1.233e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

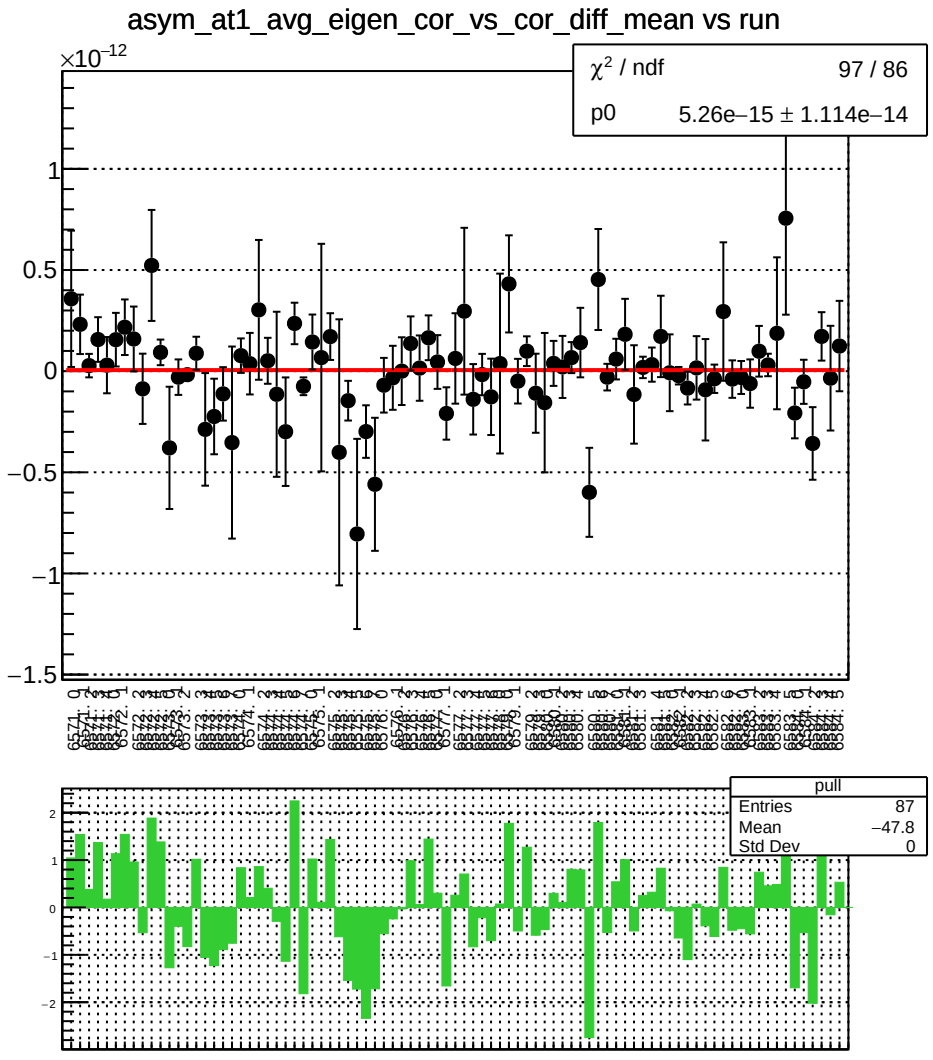

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.54 / 86
p0 −0.09496 ± 0.09613
pull
Entries 87
Mean −174.2
Std Dev 0

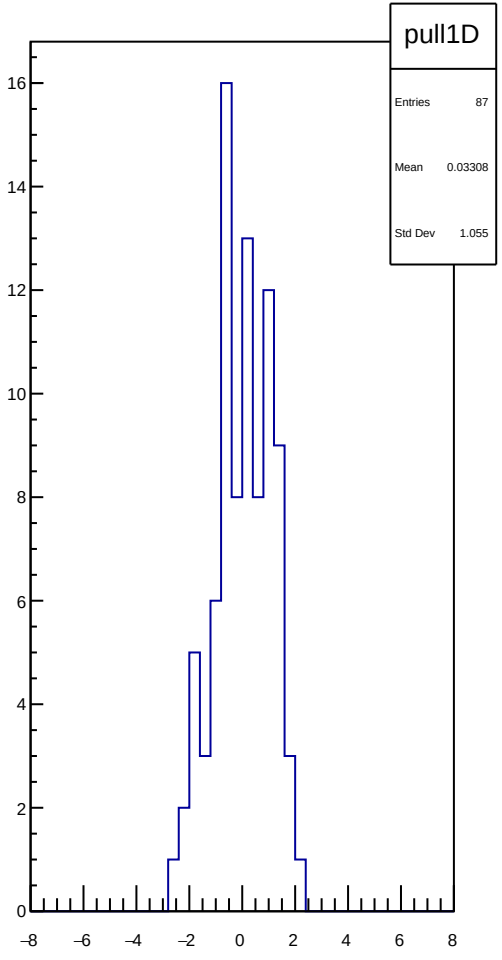

pull1D
Entries 87
Mean 0.01124
Std Dev 1.026

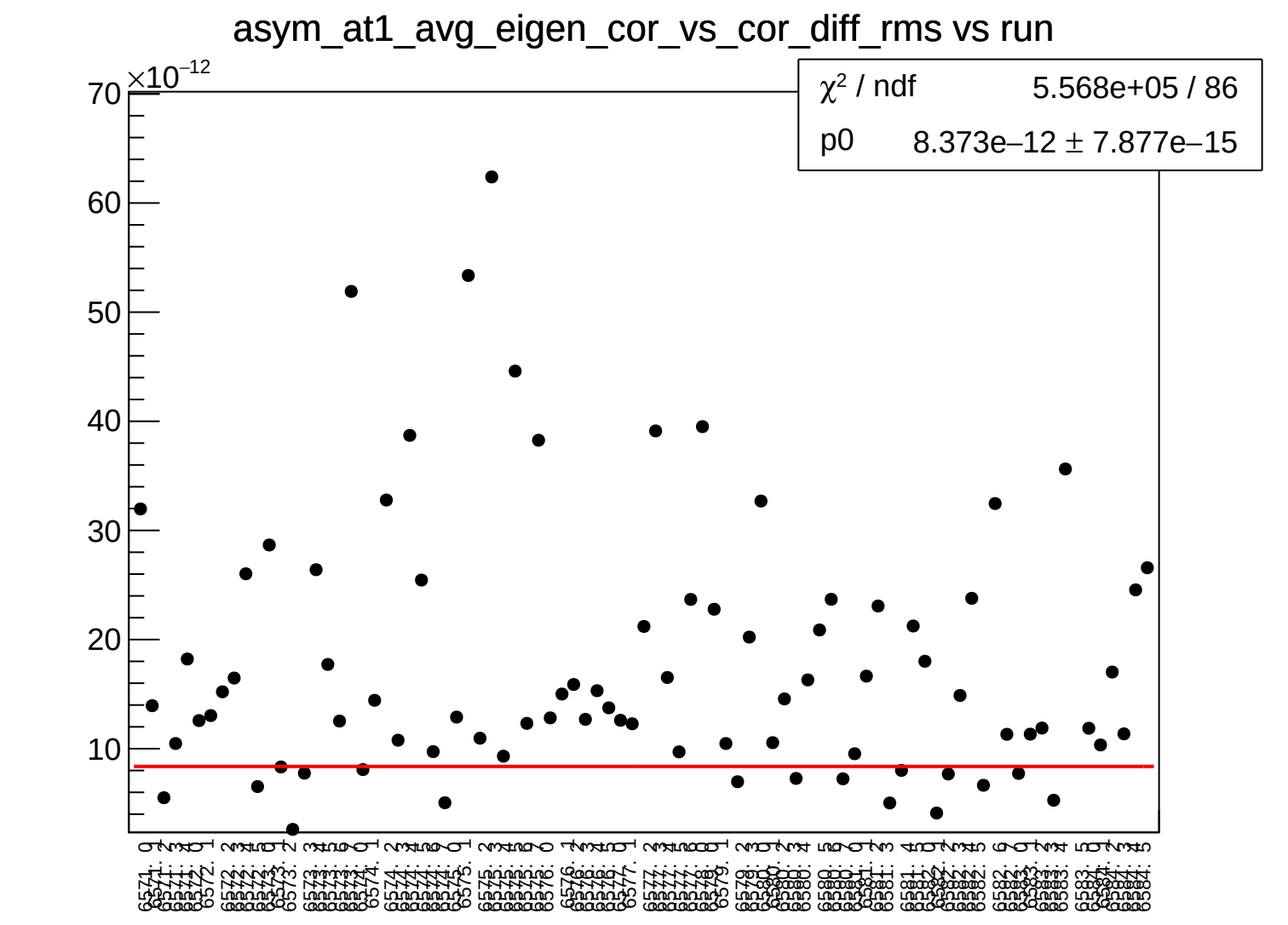

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.505e+05 / 86
p0 81.46 ± 0.06798
350
300
250
200
150
100
50

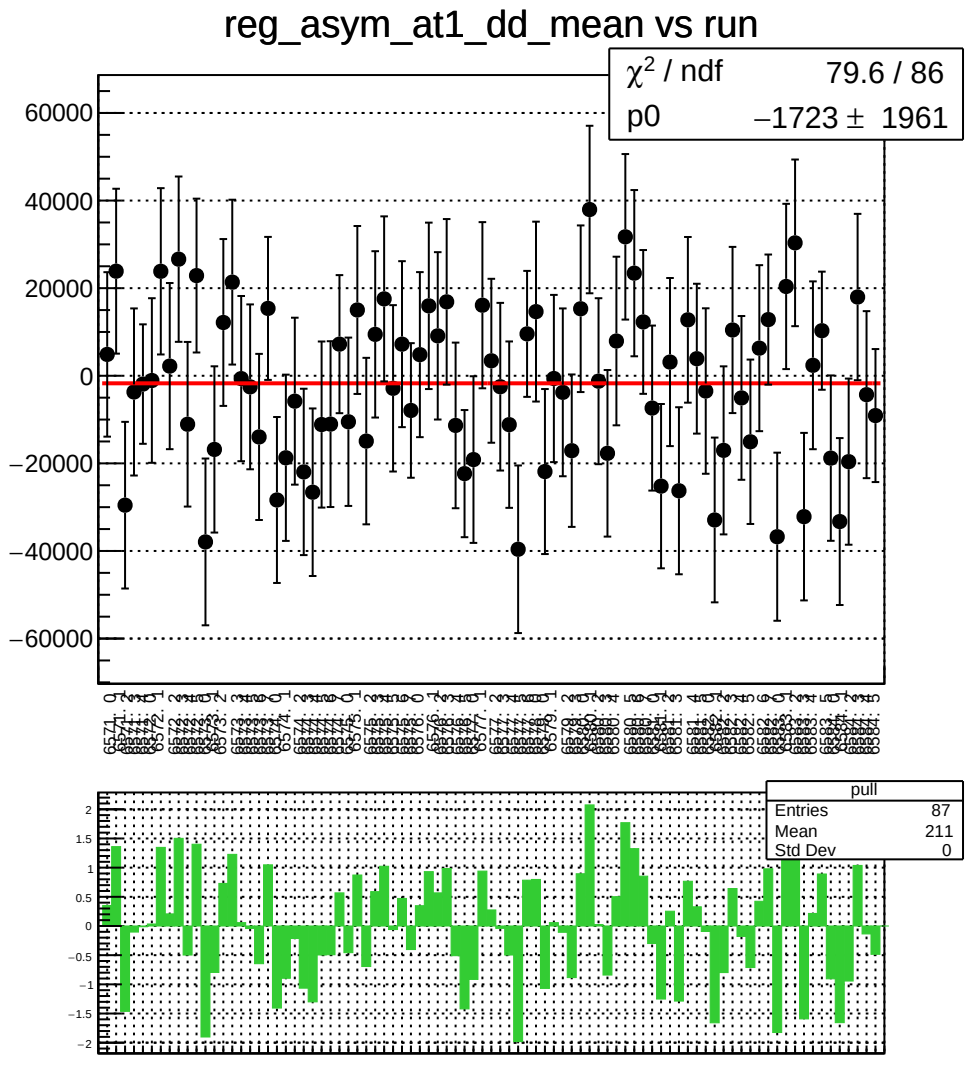

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.54 / 86
p0 −0.09496 ± 0.09613
pull
Entries 87
Mean −174.2
Std Dev 0
pull1D
Entries 87
Mean 0.01124
Std Dev 1.026

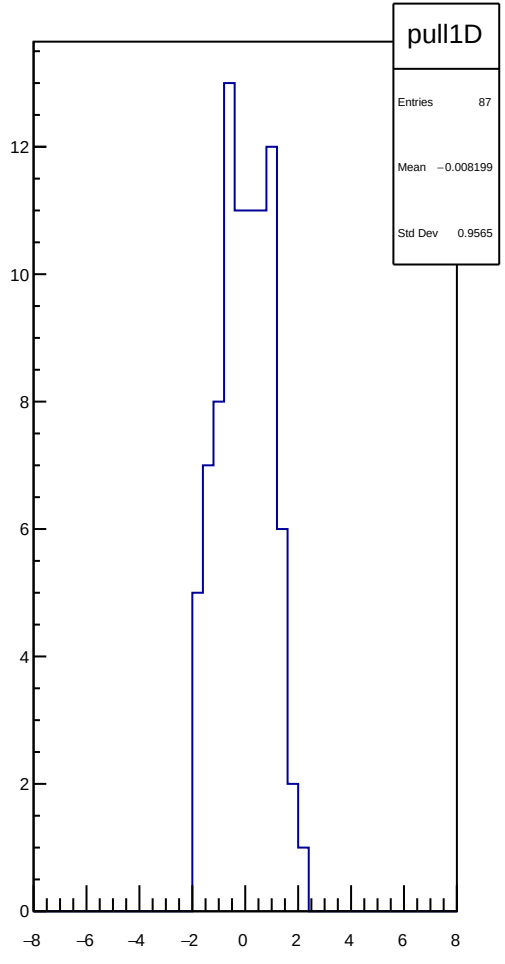

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.505e+05 / 86
p0 81.46 ± 0.06798
350
300
250
200
150
100
50

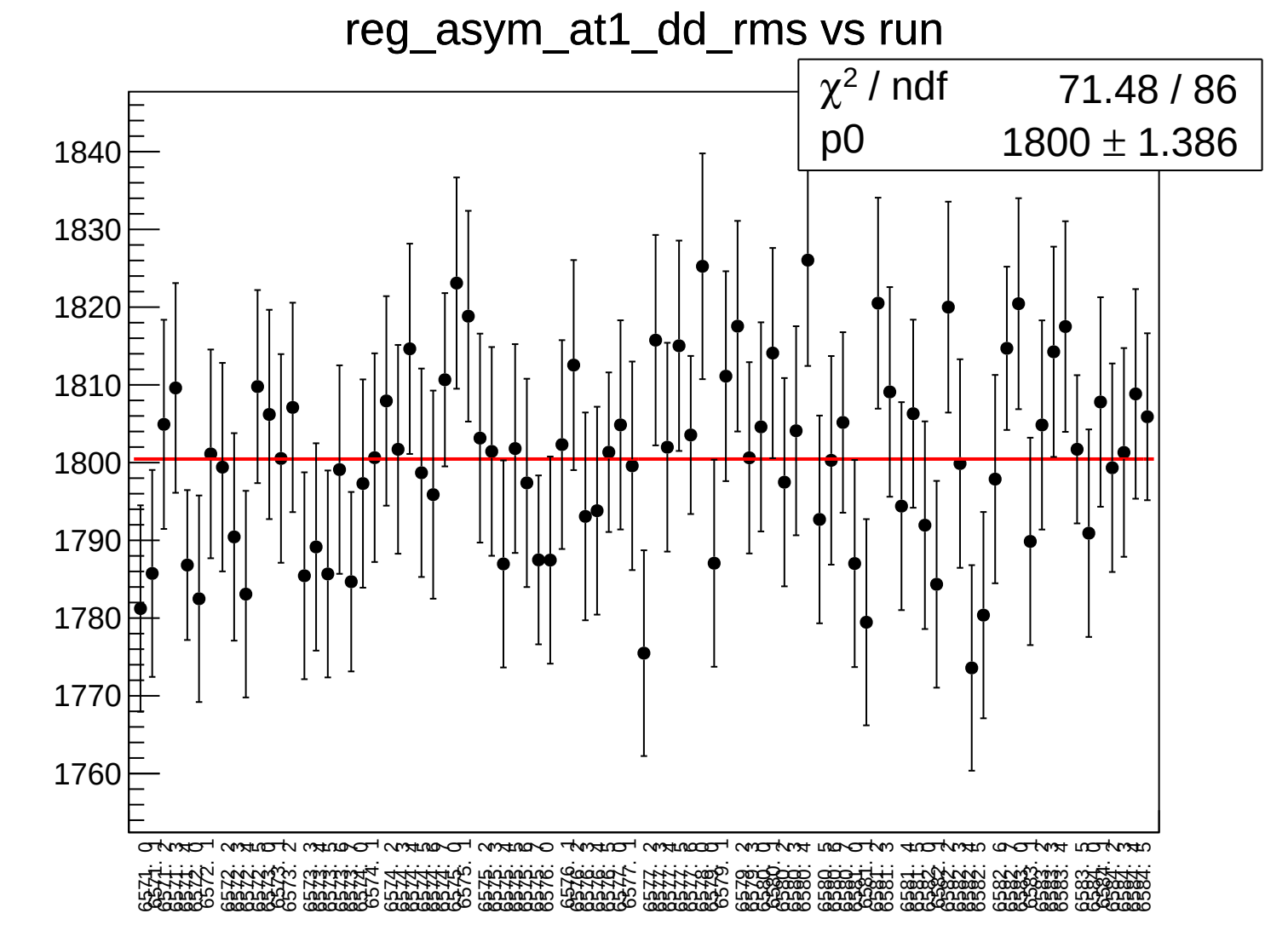

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97 / 86
p0 5.26e−15 ± 1.114e−14
pull
Entries 87
Mean −47.8
Std Dev 0

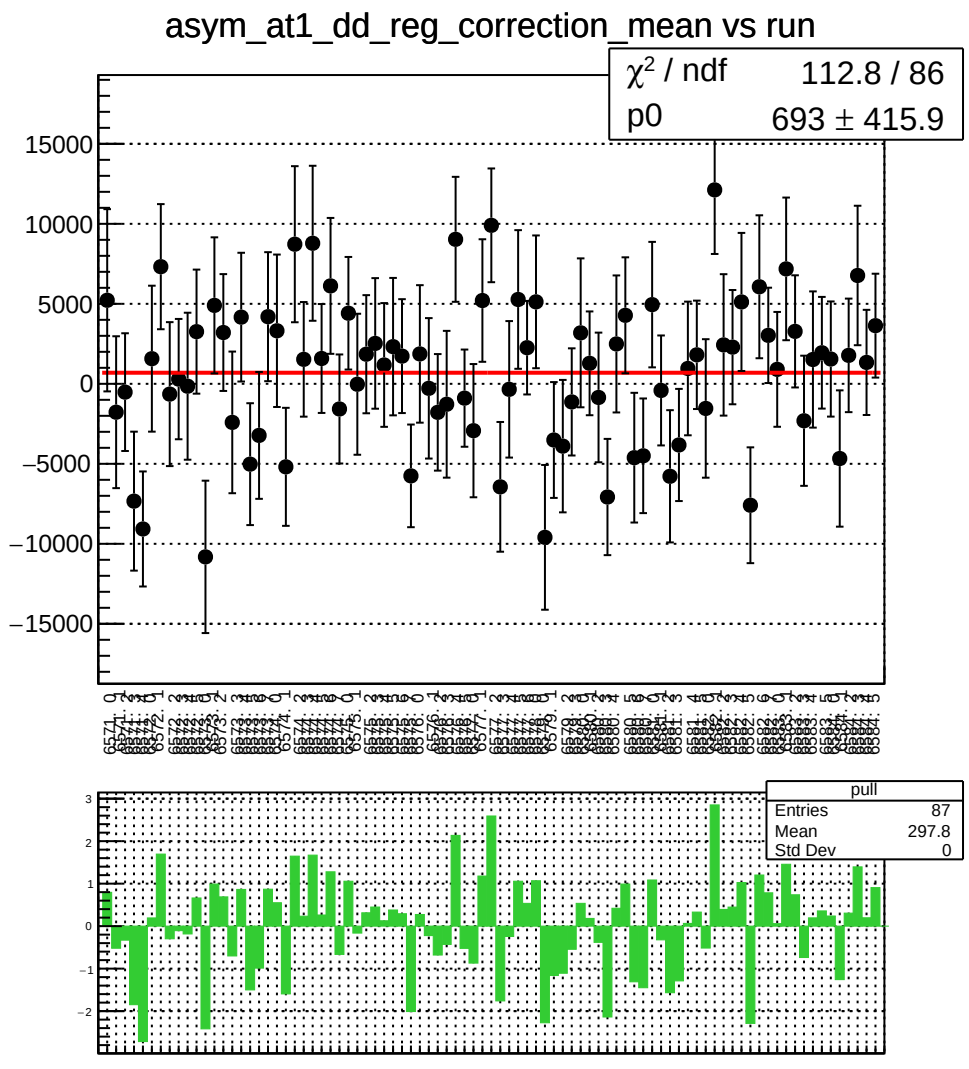

pull1D
Entries 87
Mean 0.03308
Std Dev 1.055

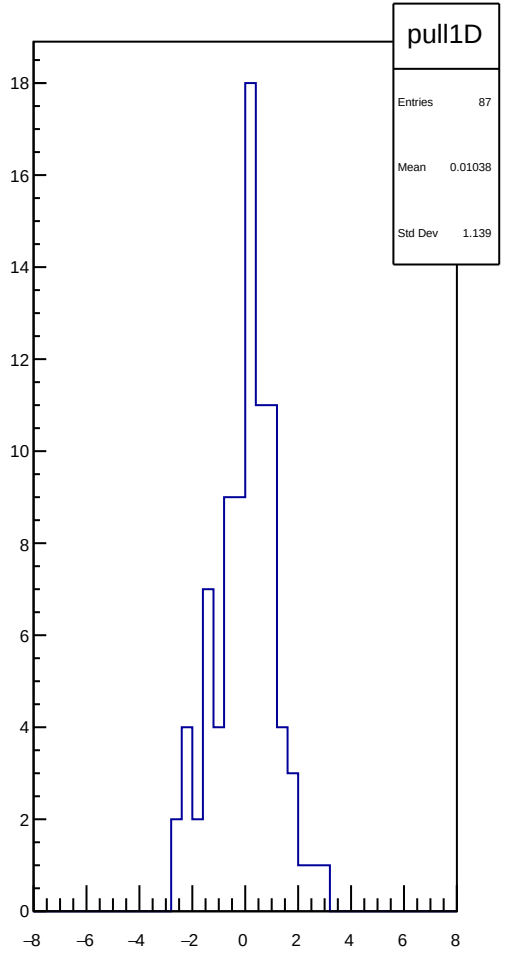

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 5.568e+05 / 86
p0 8.373e−12 ± 7.877e−15

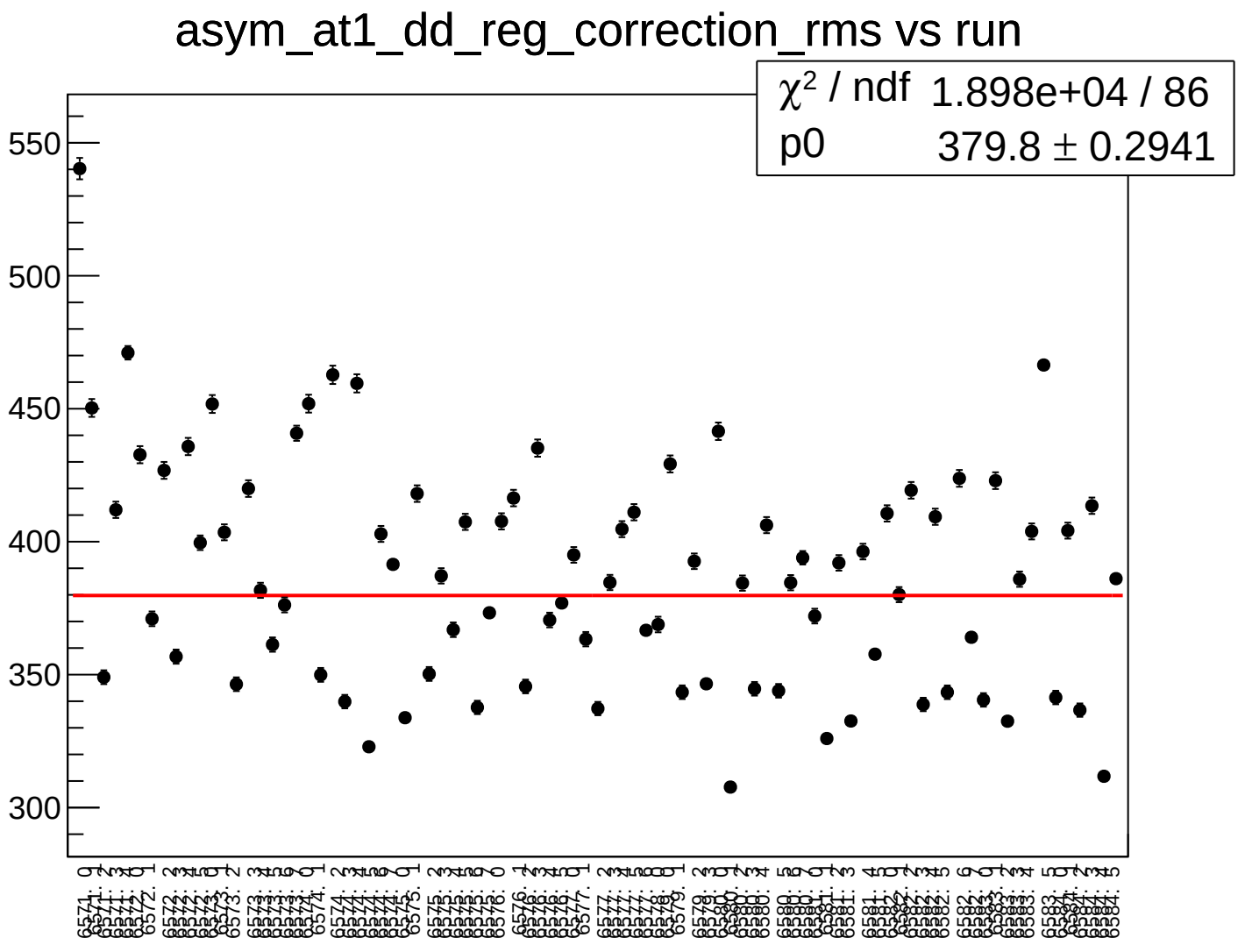

reg_asym_at1_dd_mean vs run
χ² / ndf 79.6 / 86
p0 −1723 ± 1961
pull
Entries 87
Mean 211
Std Dev 0

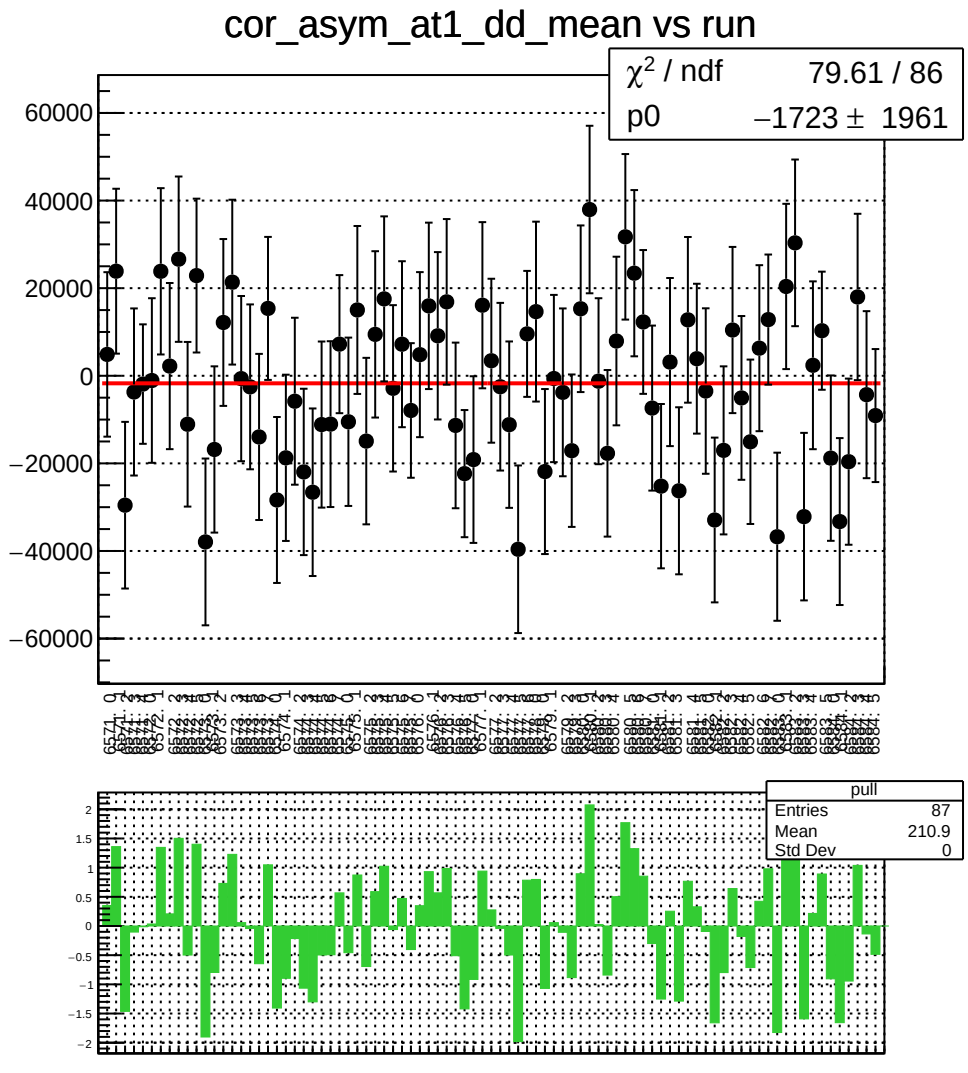

pull1D
Entries 87
Mean −0.008199
Std Dev 0.9565

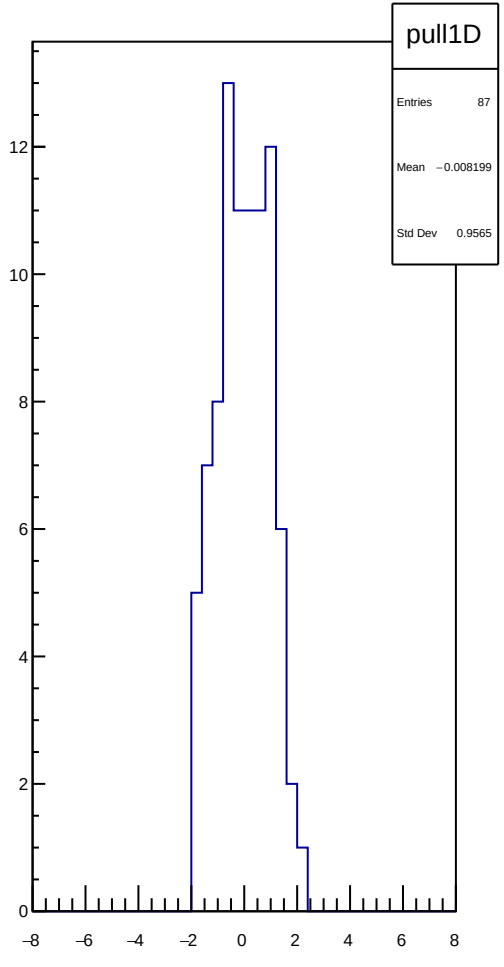

reg_asym_at1_dd_rms vs run
χ² / ndf 71.48 / 86
p0 1800 ± 1.386
1840
1830
1820
1810
1800
1790
1780
1770
1760

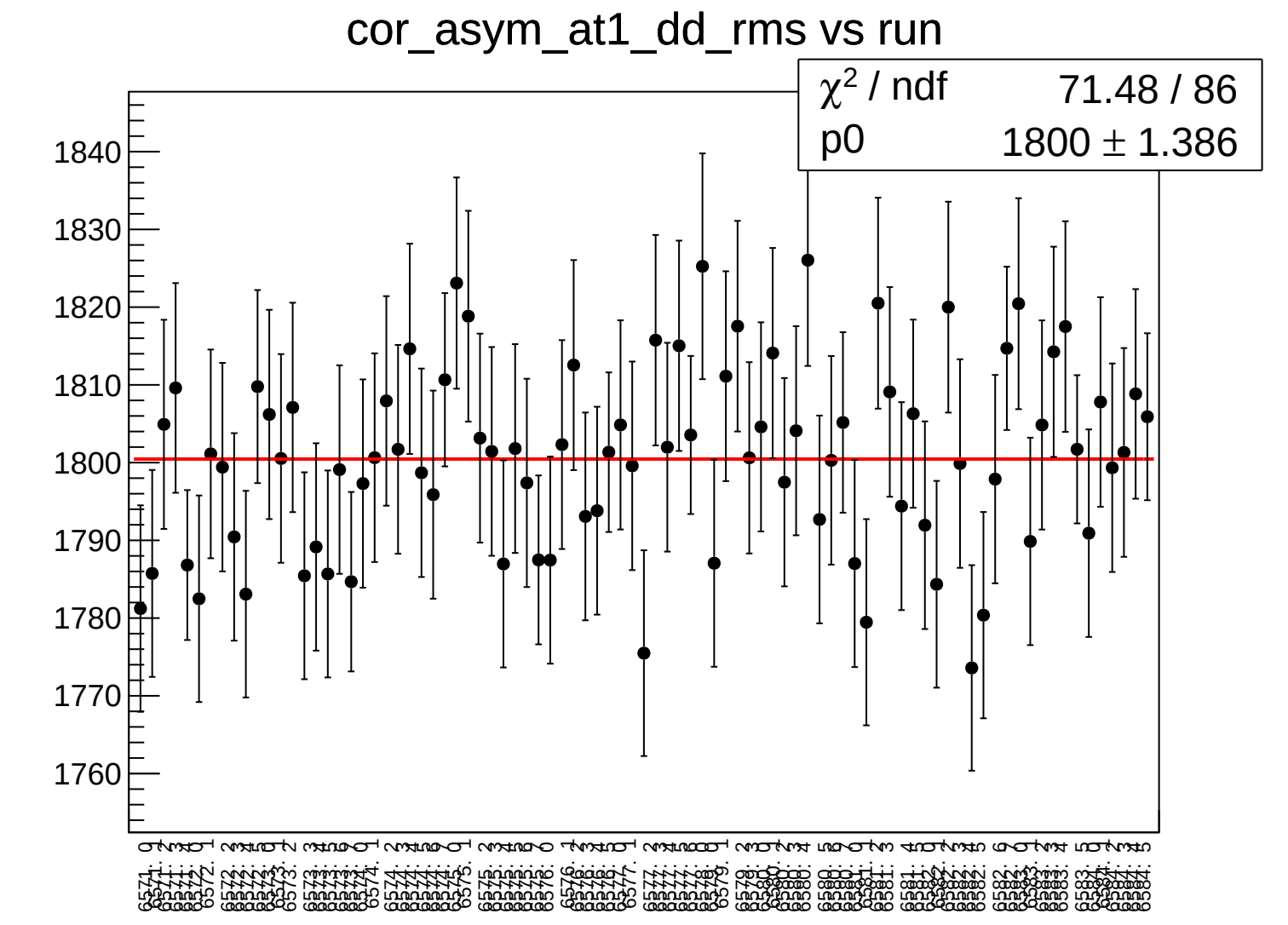

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 112.8 / 86
p0 693 ± 415.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 297.8
Std Dev 0
3
2
1
0
−1
−2

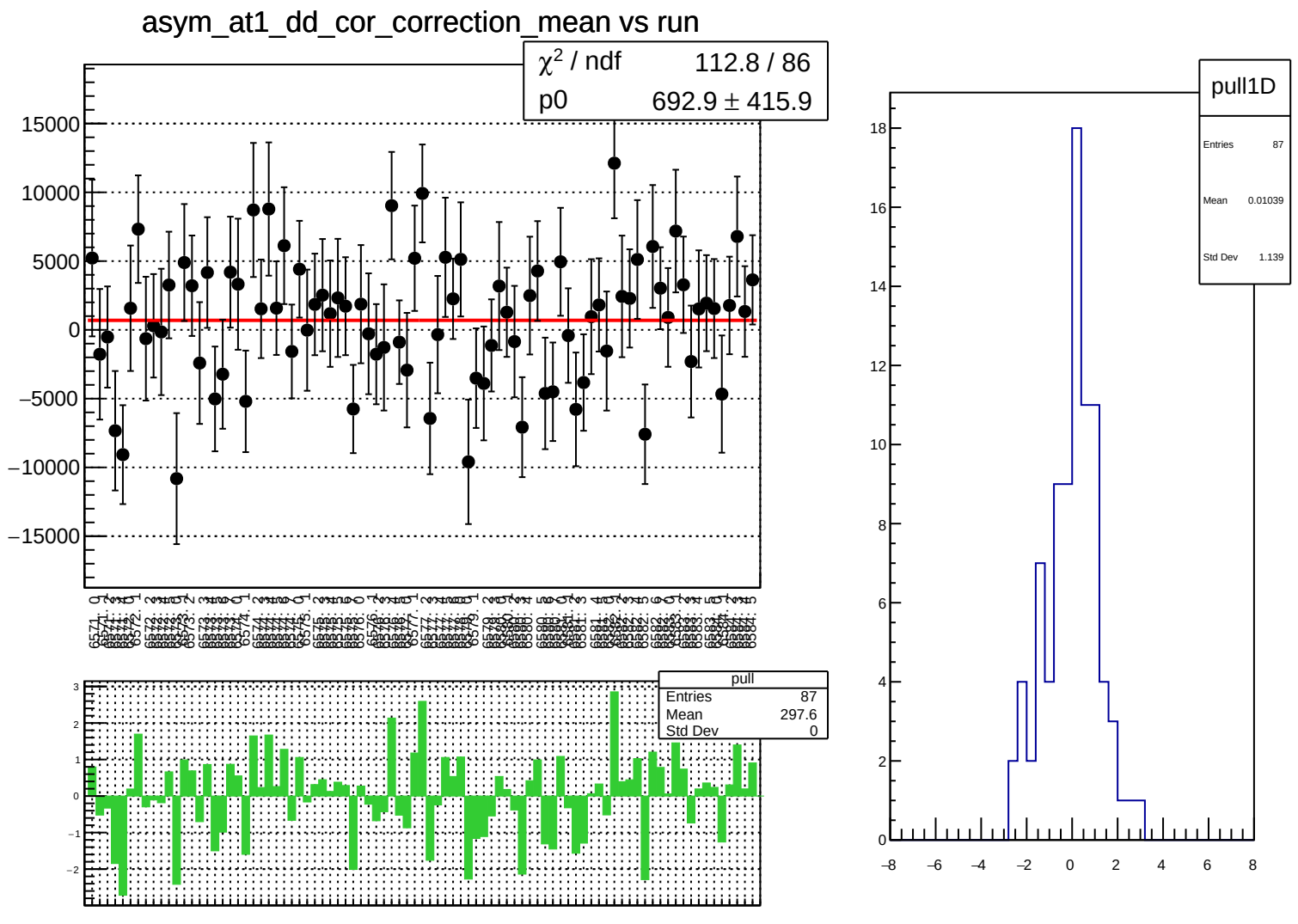

pull1D
Entries 87
Mean 0.01038
Std Dev 1.139
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

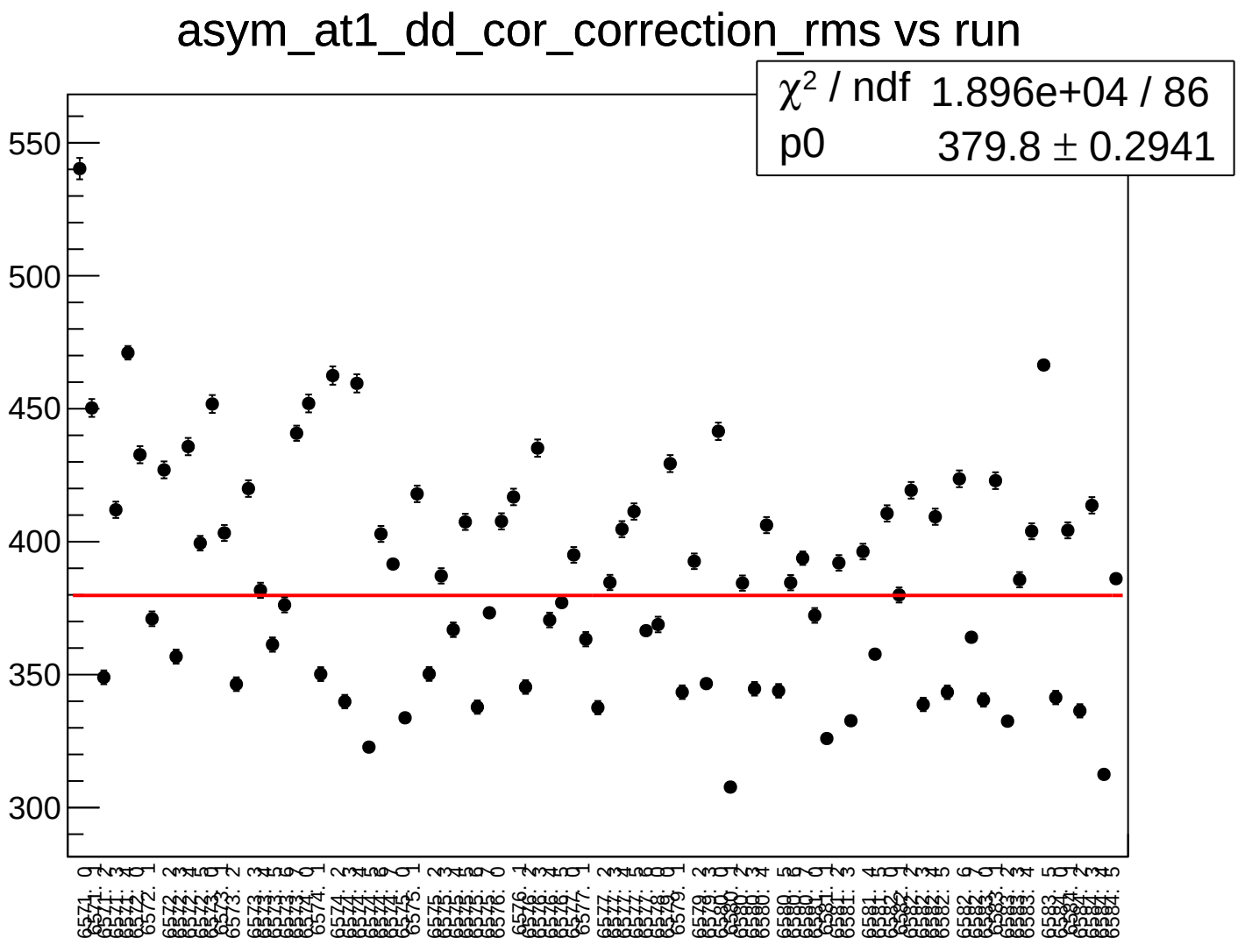

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.898e+04 / 86
p0 379.8 ± 0.2941
550
500
450
400
350
300

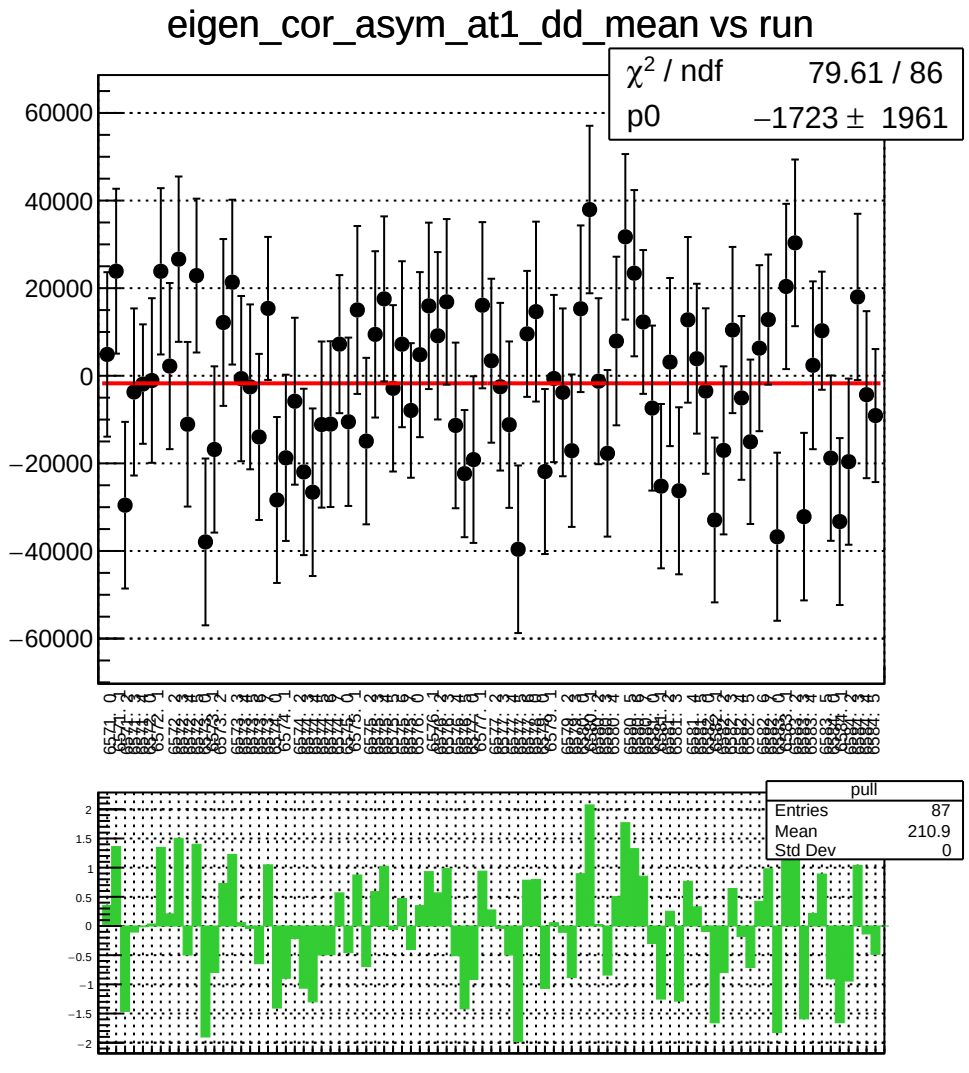

cor_asym_at1_dd_mean vs run
χ² / ndf 79.61 / 86
p0 −1723 ± 1961
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 210.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

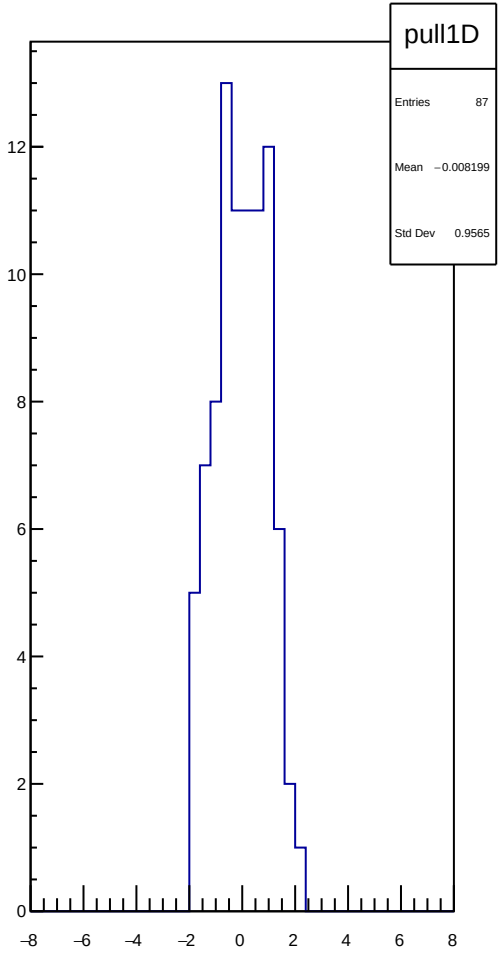

pull1D
Entries 87
Mean −0.008199
Std Dev 0.9565
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

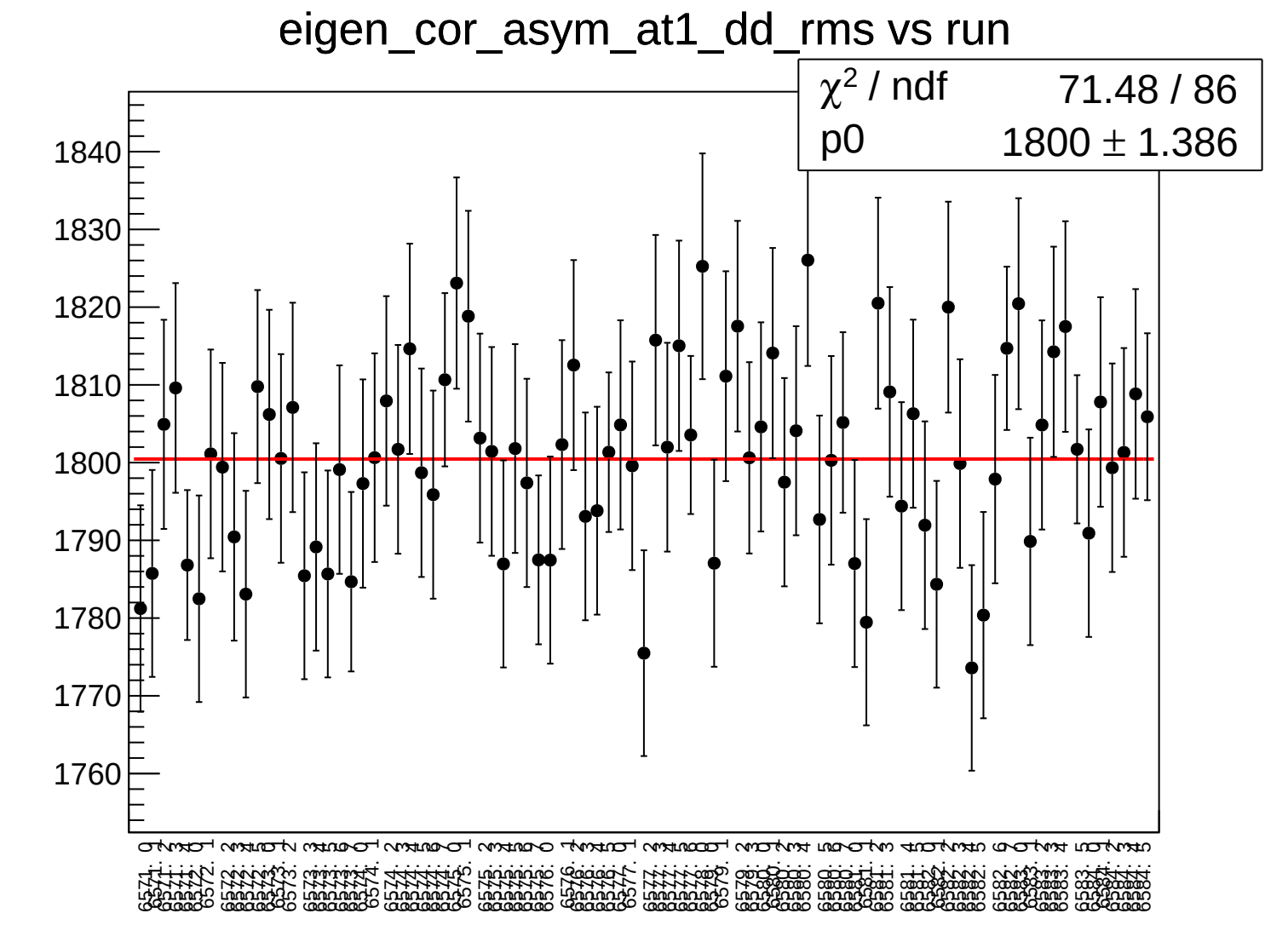

cor_asym_at1_dd_rms vs run
χ² / ndf 71.48 / 86
p0 1800 ± 1.386
1840
1830
1820
1810
1800
1790
1780
1770
1760

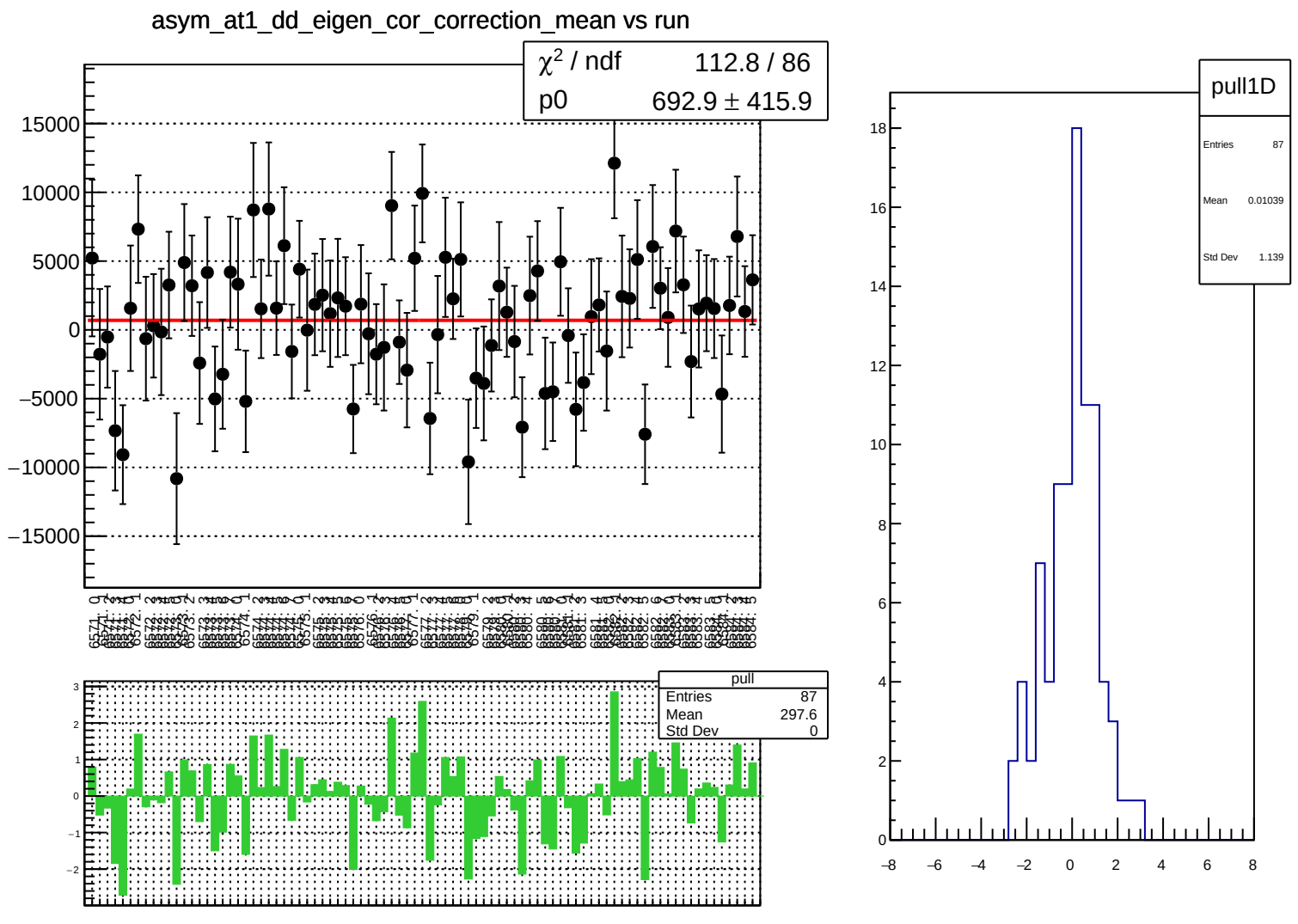

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 112.8 / 86
p0 692.9 ± 415.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 297.6
Std Dev 0
pull1D
Entries 87
Mean 0.01039
Std Dev 1.139
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

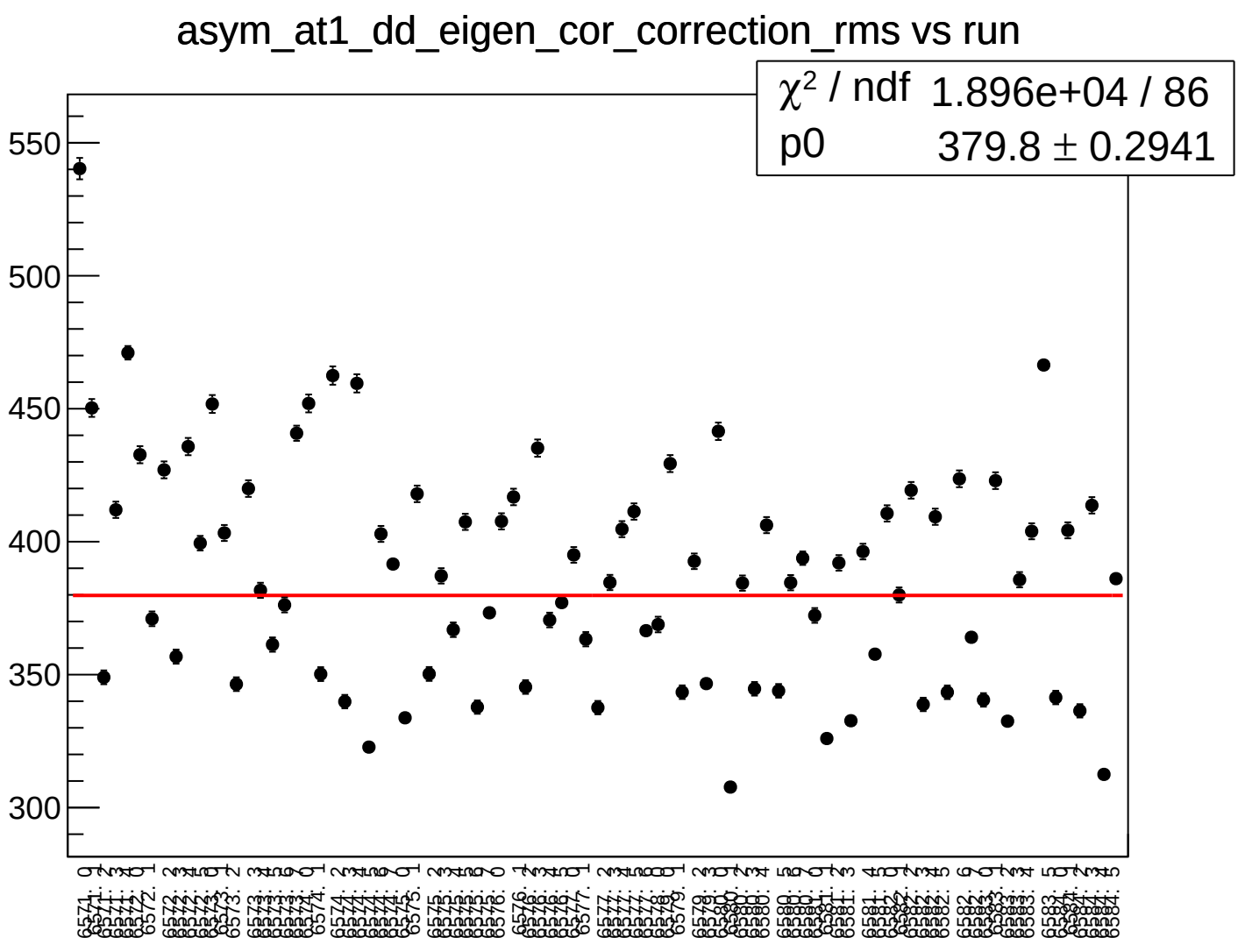

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.896e+04 / 86
p0 379.8 ± 0.2941
550
500
450
400
350
300

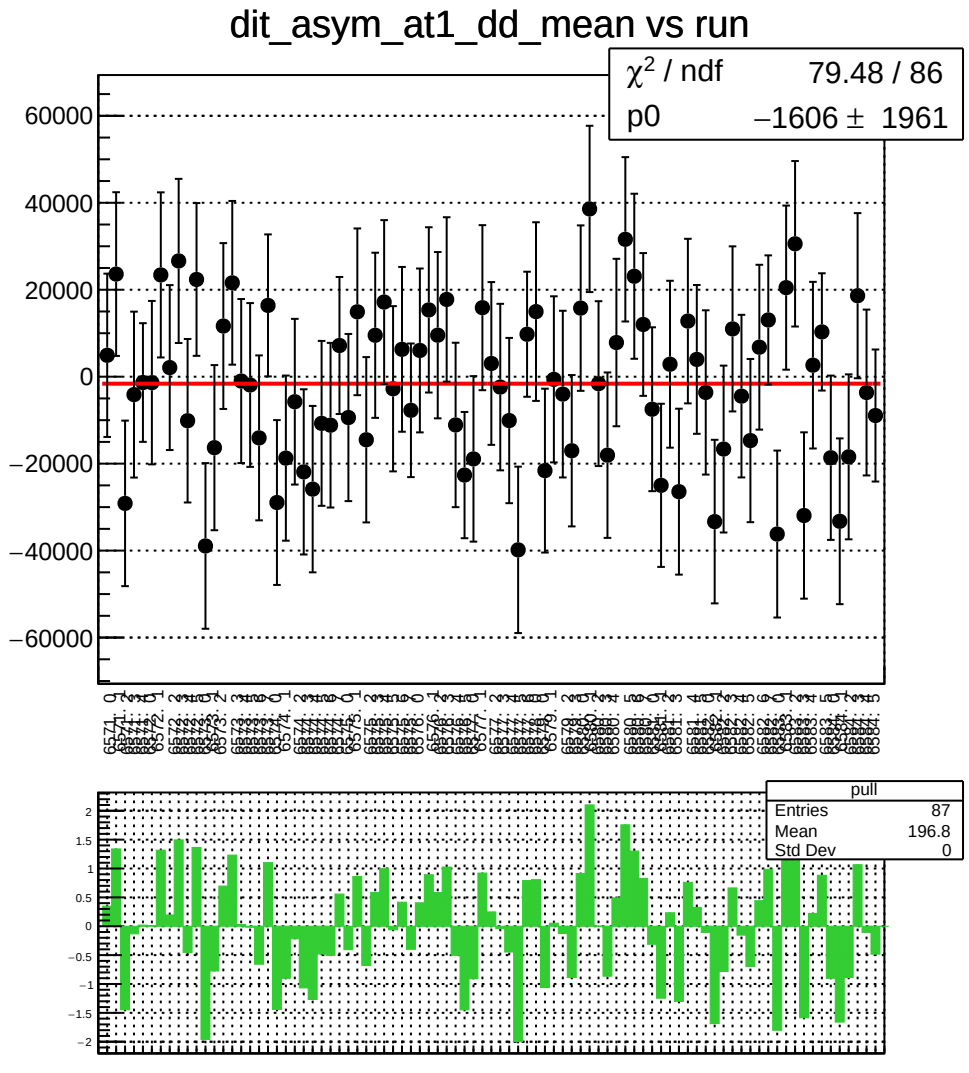

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 79.61 / 86
p0 −1723 ± 1961
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 210.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

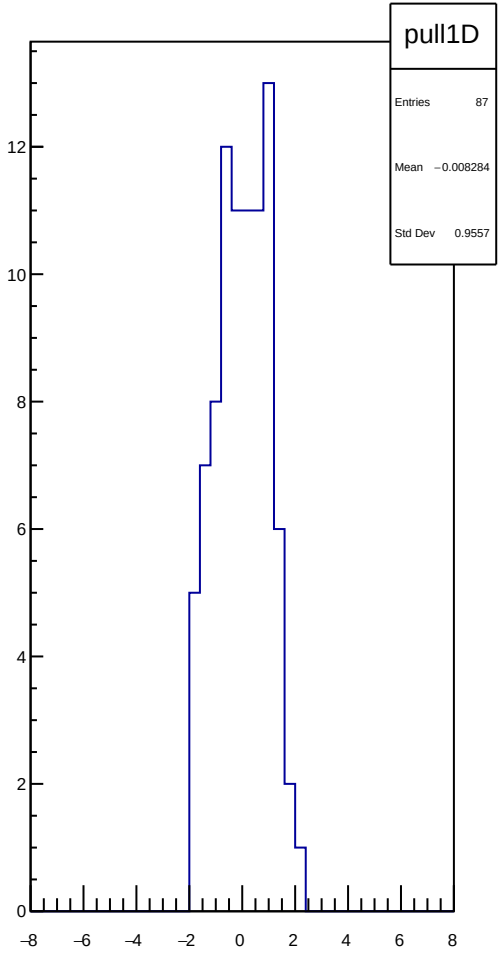

pull1D
Entries 87
Mean −0.008199
Std Dev 0.9565
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

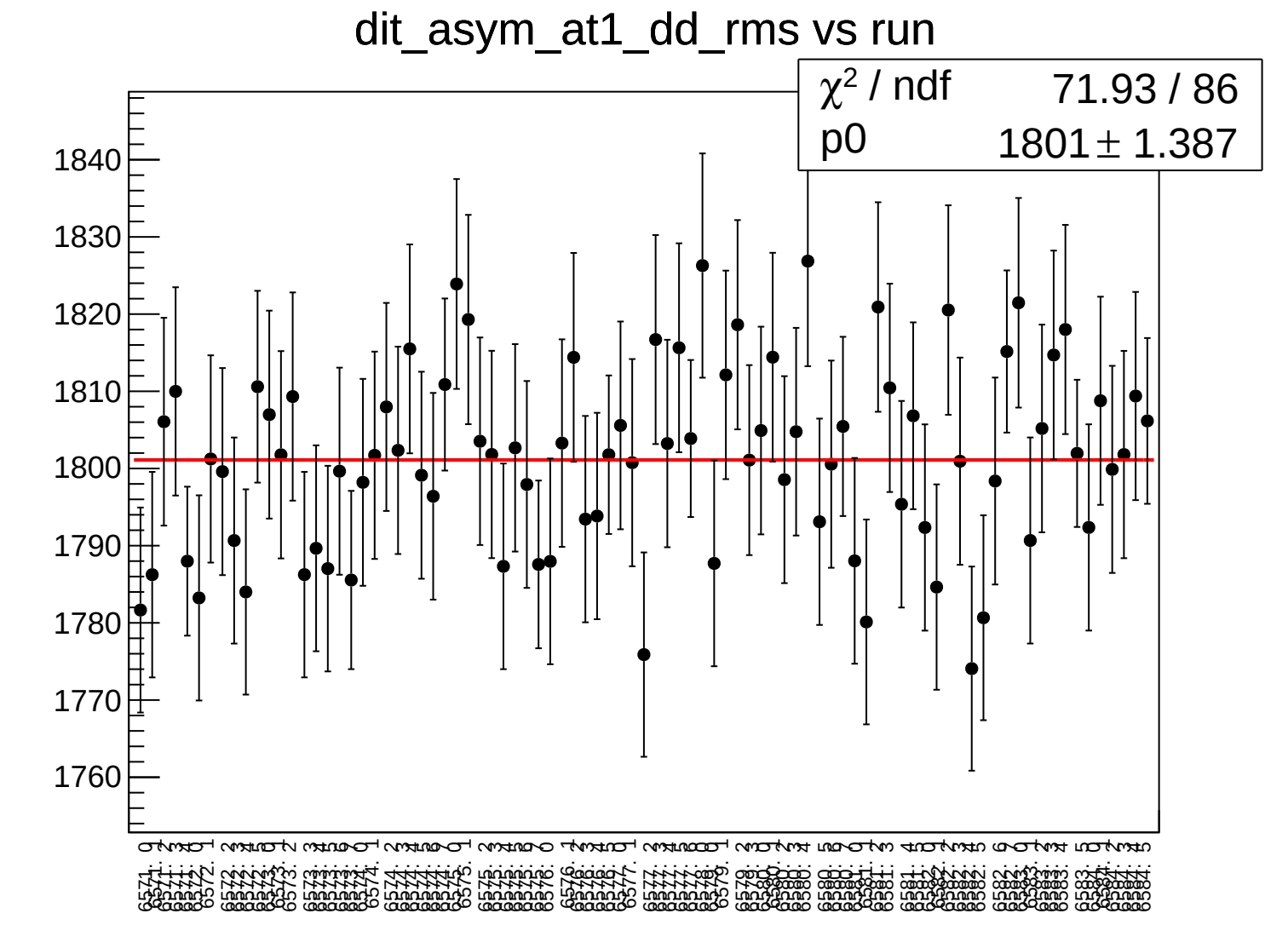

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 71.48 / 86
p0 1800 ± 1.386
1840
1830
1820
1810
1800
1790
1780
1770
1760

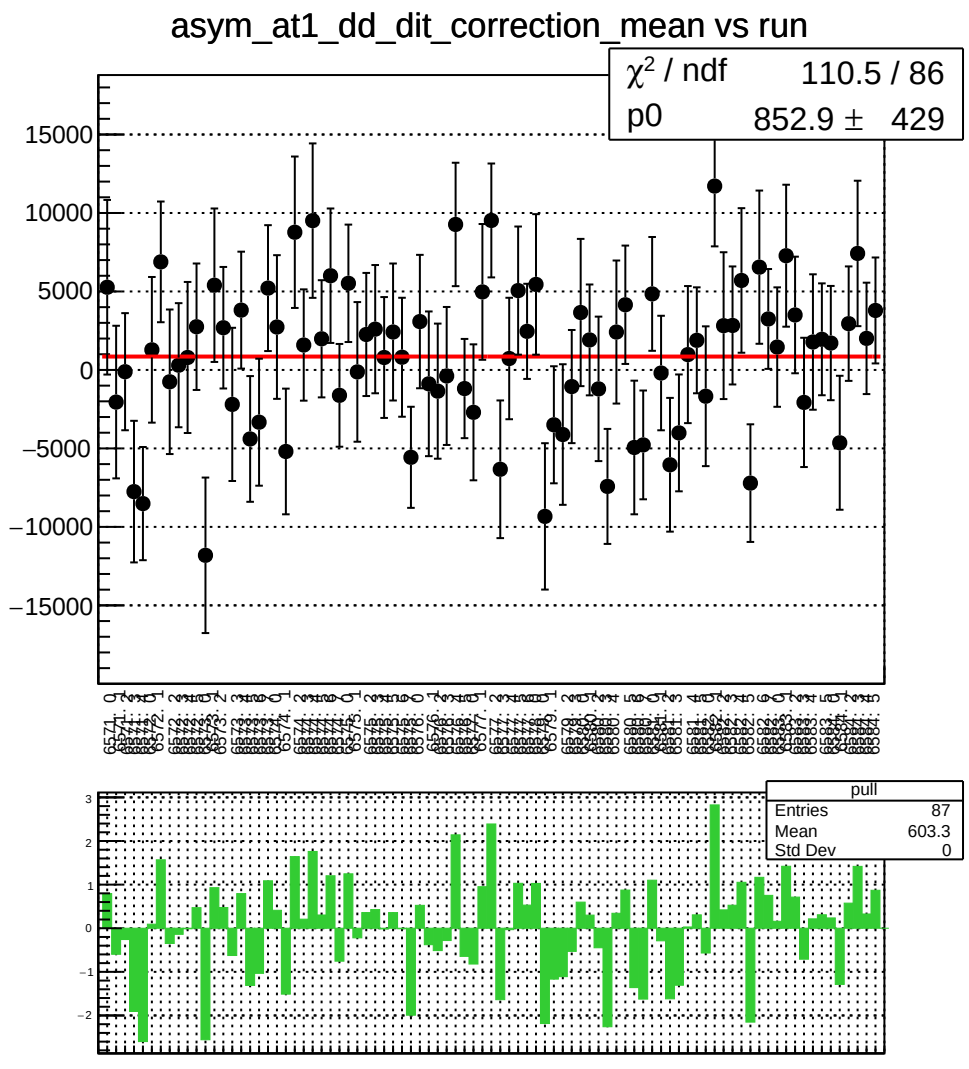

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.8 / 86
p0 692.9 ± 415.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 297.6
Std Dev 0
pull1D
Entries 87
Mean 0.01039
Std Dev 1.139
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

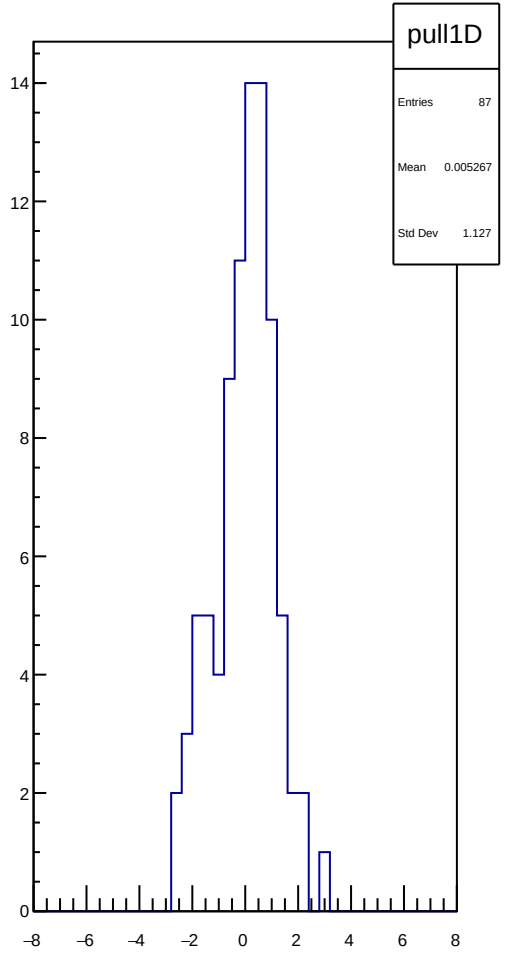

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.896e+04 / 86
p0 379.8 ± 0.2941
550
500
450
400
350
300

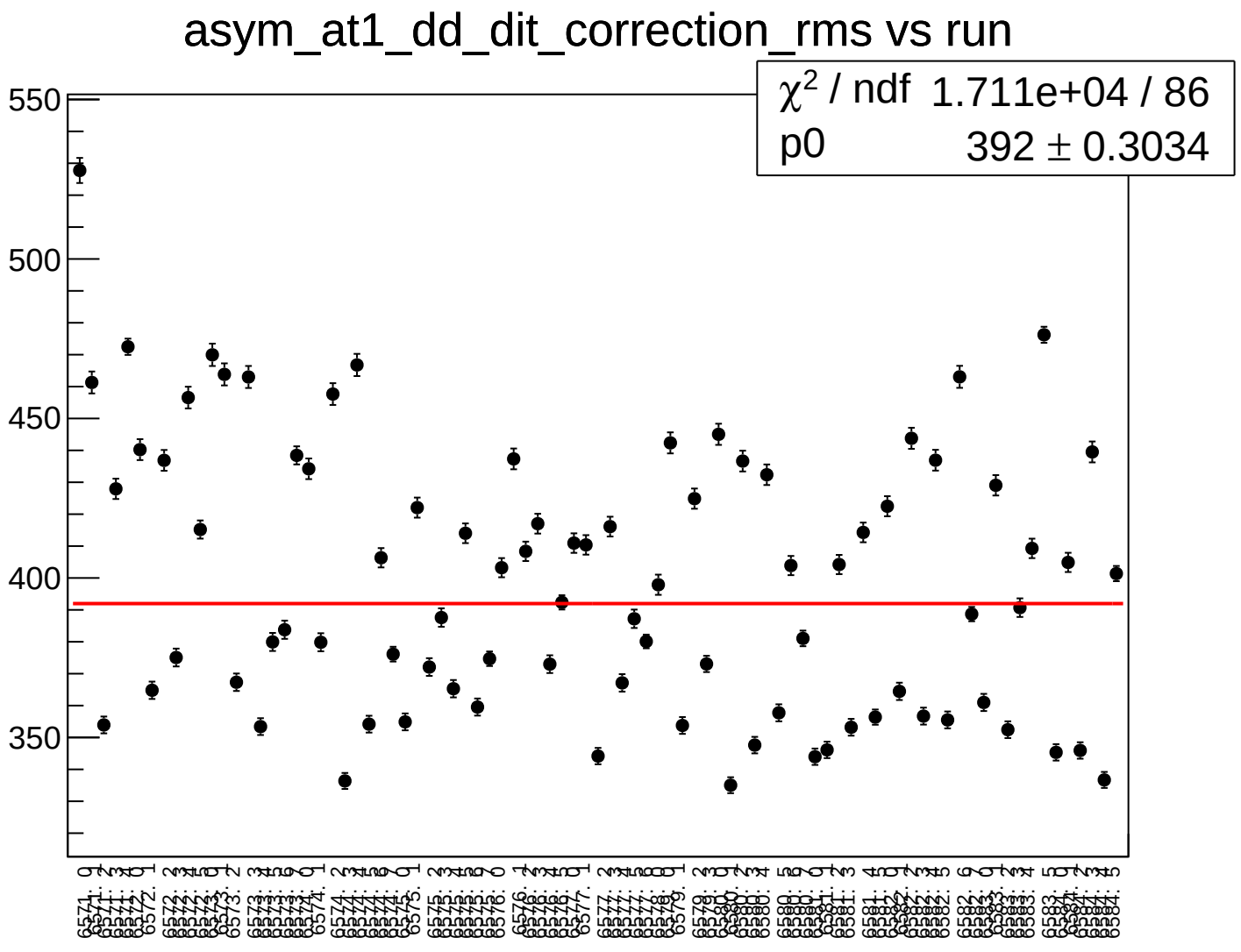

dit_asym_at1_dd_mean vs run
χ² / ndf 79.48 / 86
p0 −1606 ± 1961
pull
Entries 87
Mean 196.8
Std Dev 0

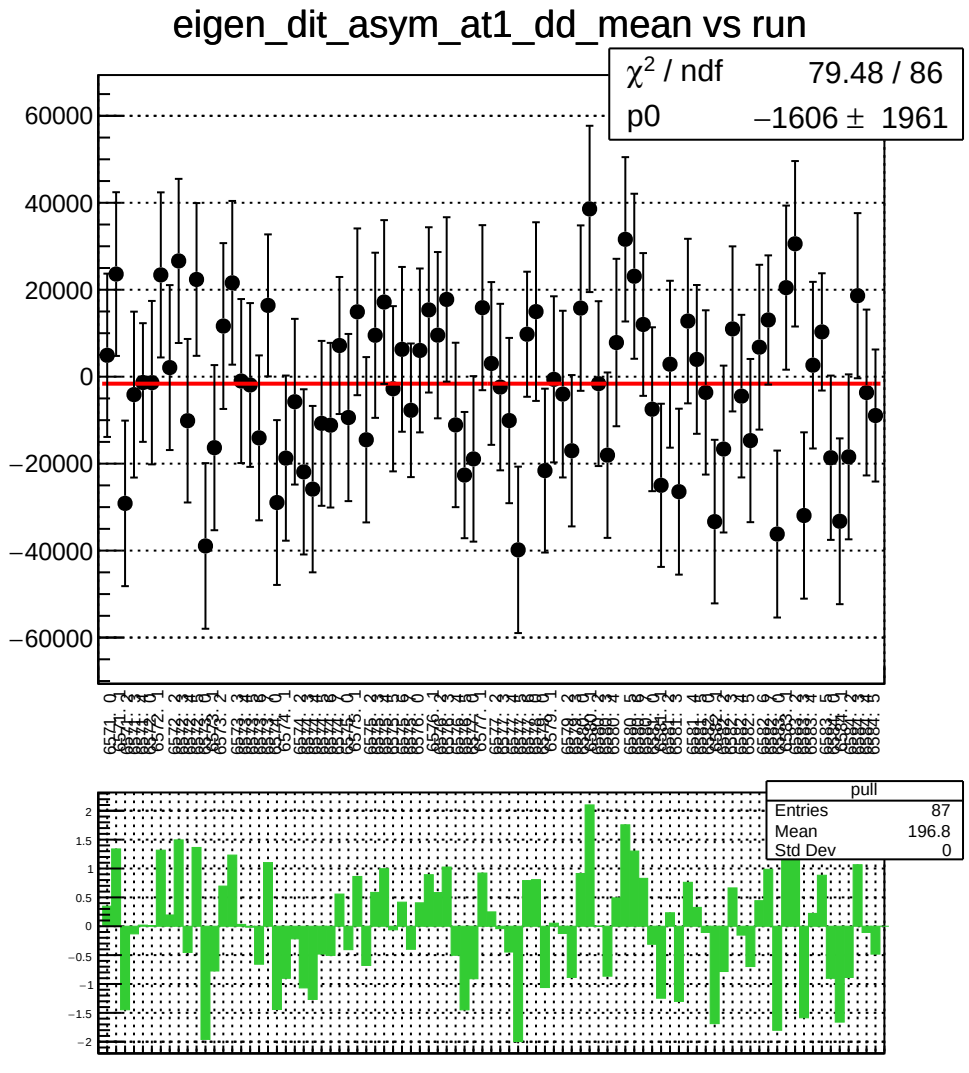

pull1D
Entries 87
Mean −0.008284
Std Dev 0.9557

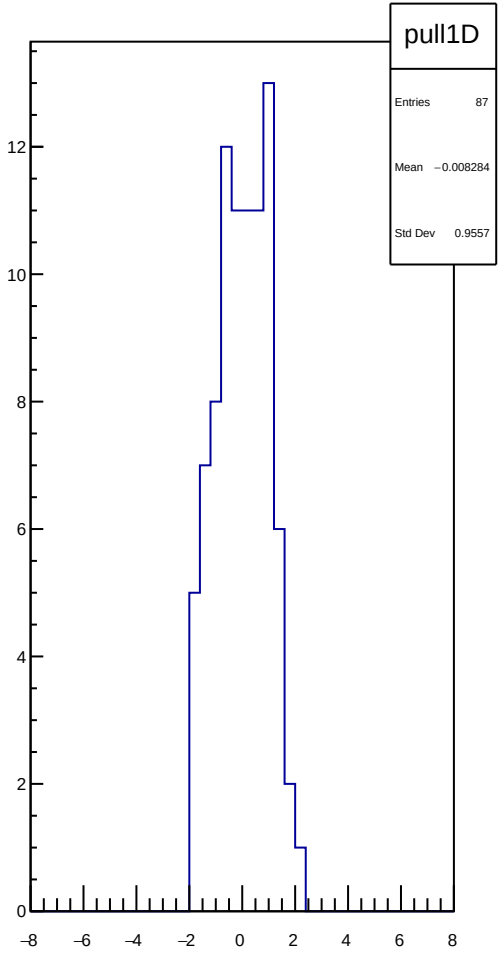

dit_asym_at1_dd_rms vs run
χ^2 / ndf 71.93 / 86
p0 1801 ± 1.387
1840
1830
1820
1810
1800
1790
1780
1770
1760

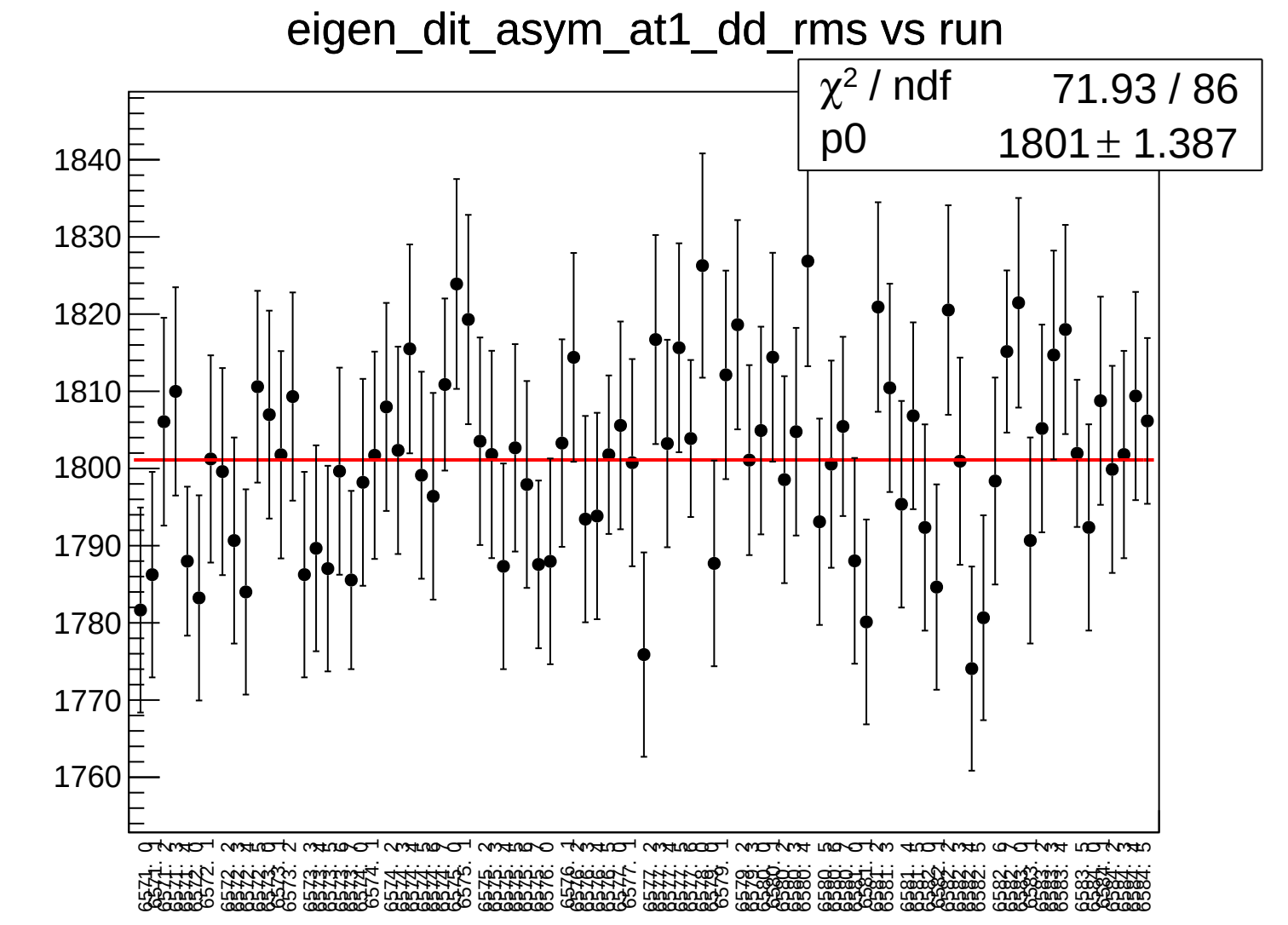

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 110.5 / 86
p0 852.9 ± 429
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 603.3
Std Dev 0
3
2
1
0
−1
−2

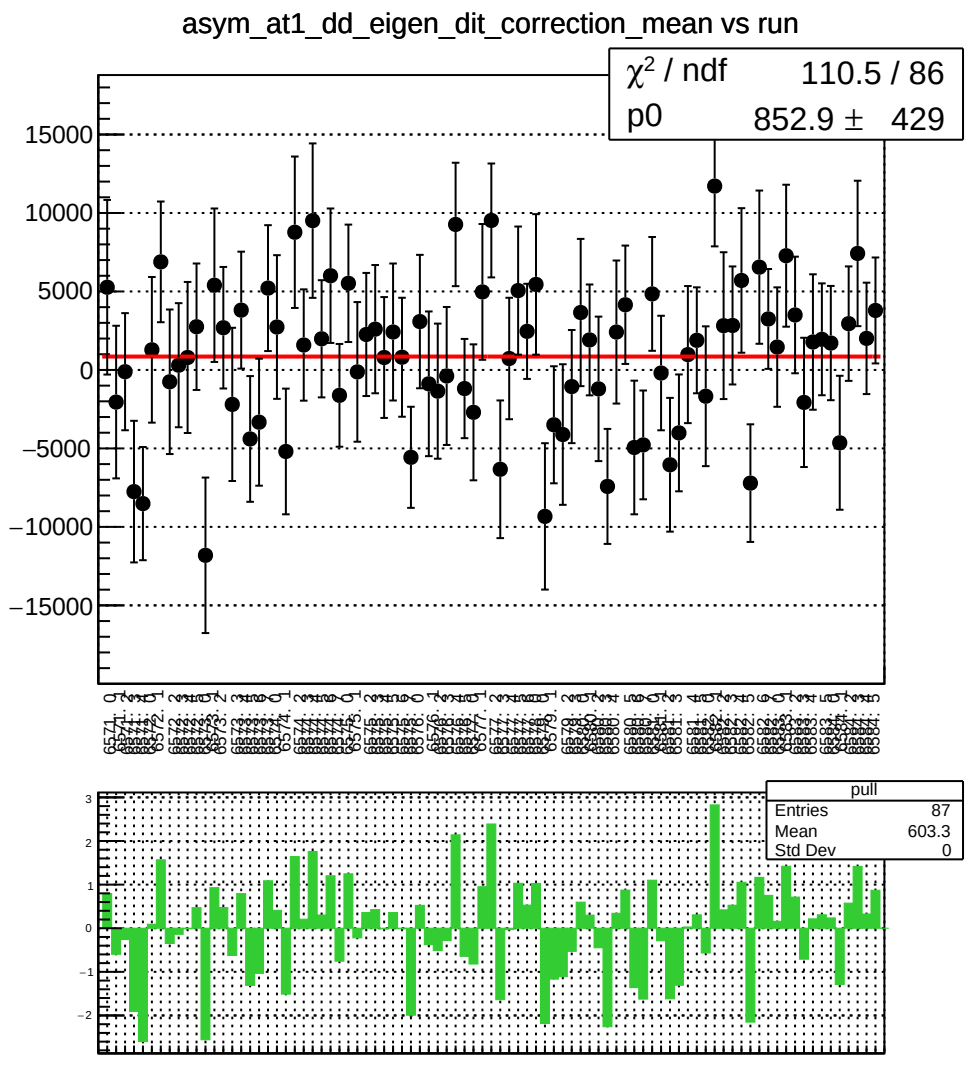

pull1D
Entries 87
Mean 0.005267
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

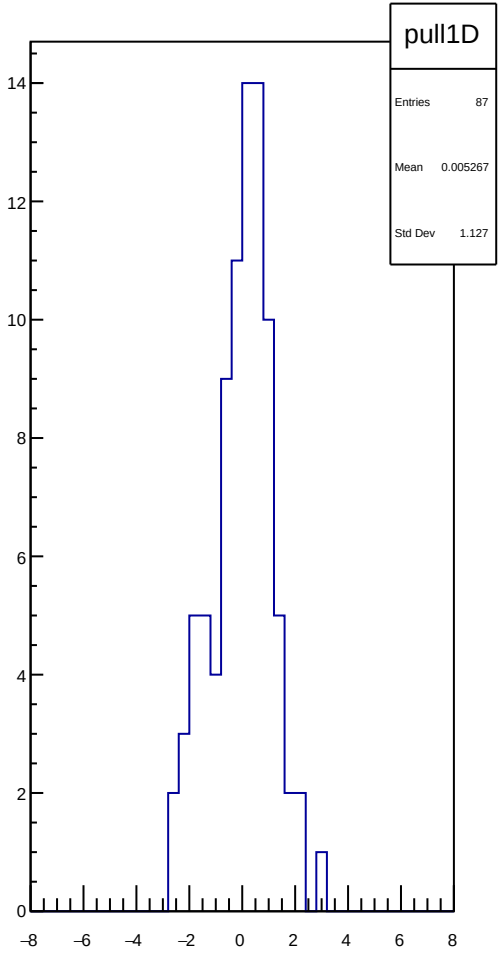

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.711e+04 / 86
p0 392 ± 0.3034
550
500
450
400
350

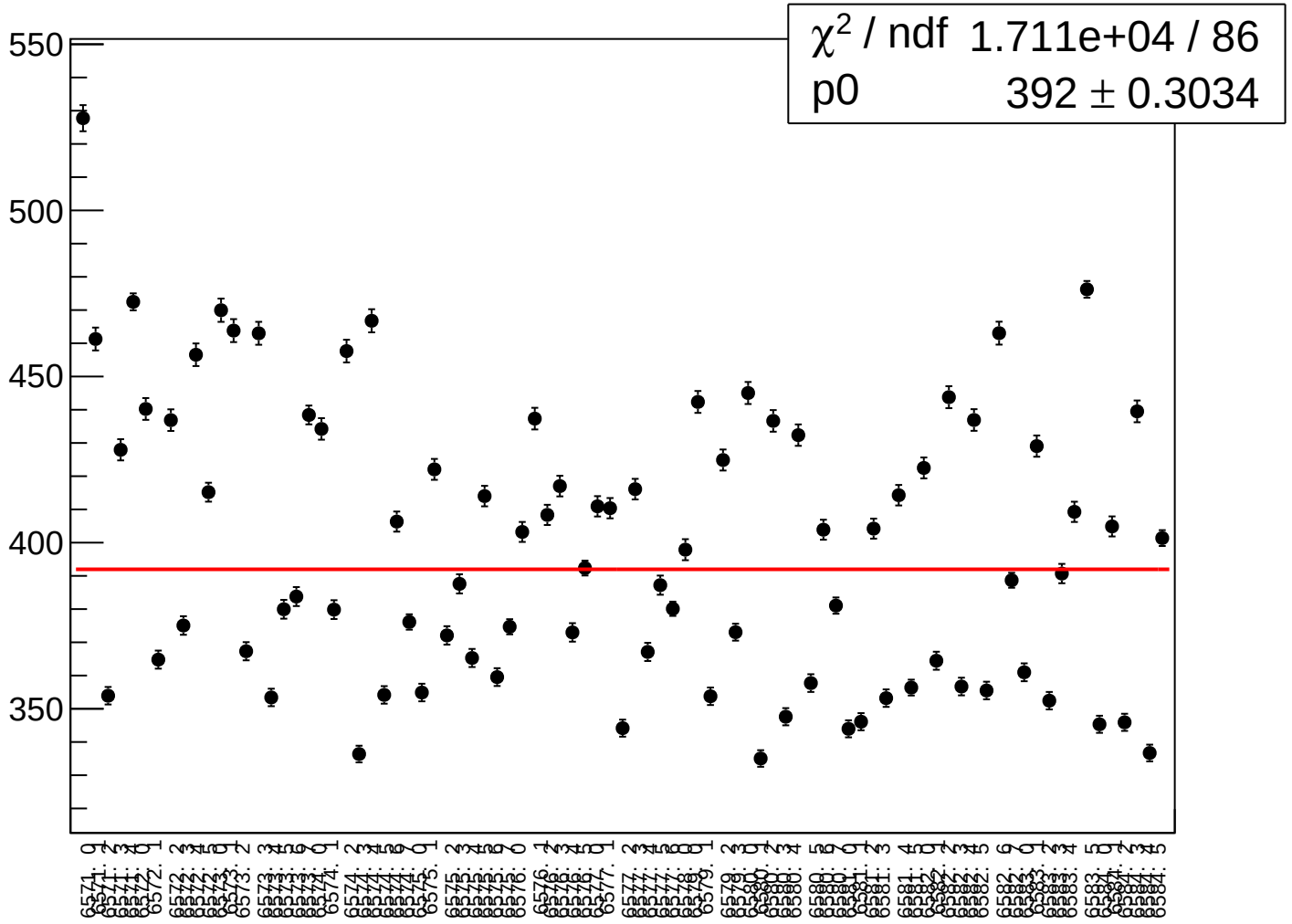

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 79.48 / 86
p0 −1606 ± 1961
pull
Entries 87
Mean 196.8
Std Dev 0

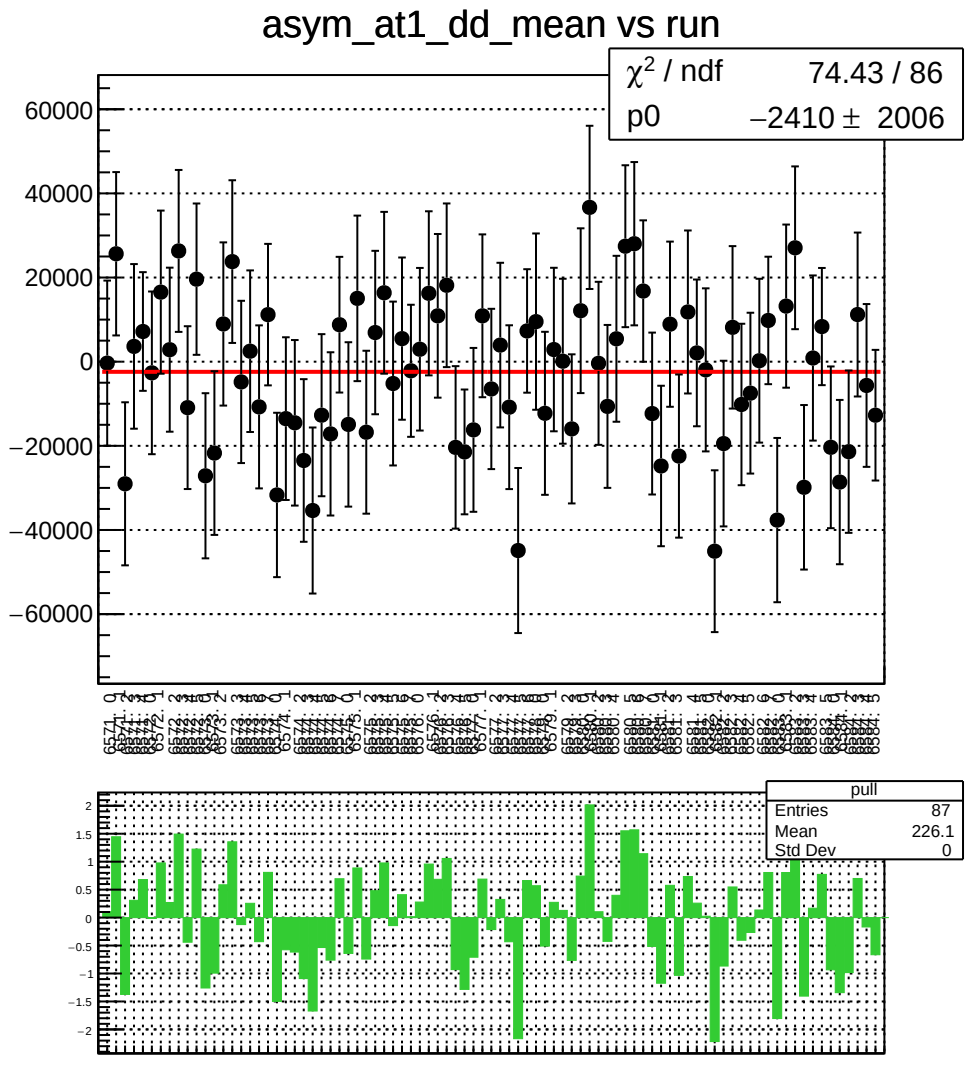

pull1D
Entries 87
Mean −0.008284
Std Dev 0.9557

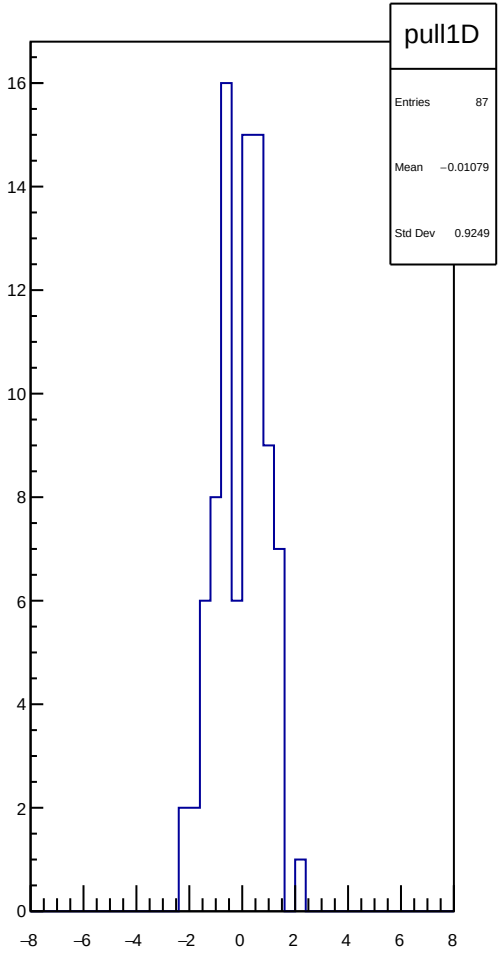

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 71.93 / 86
p0 1801 ± 1.387
1840
1830
1820
1810
1800
1790
1780
1770
1760

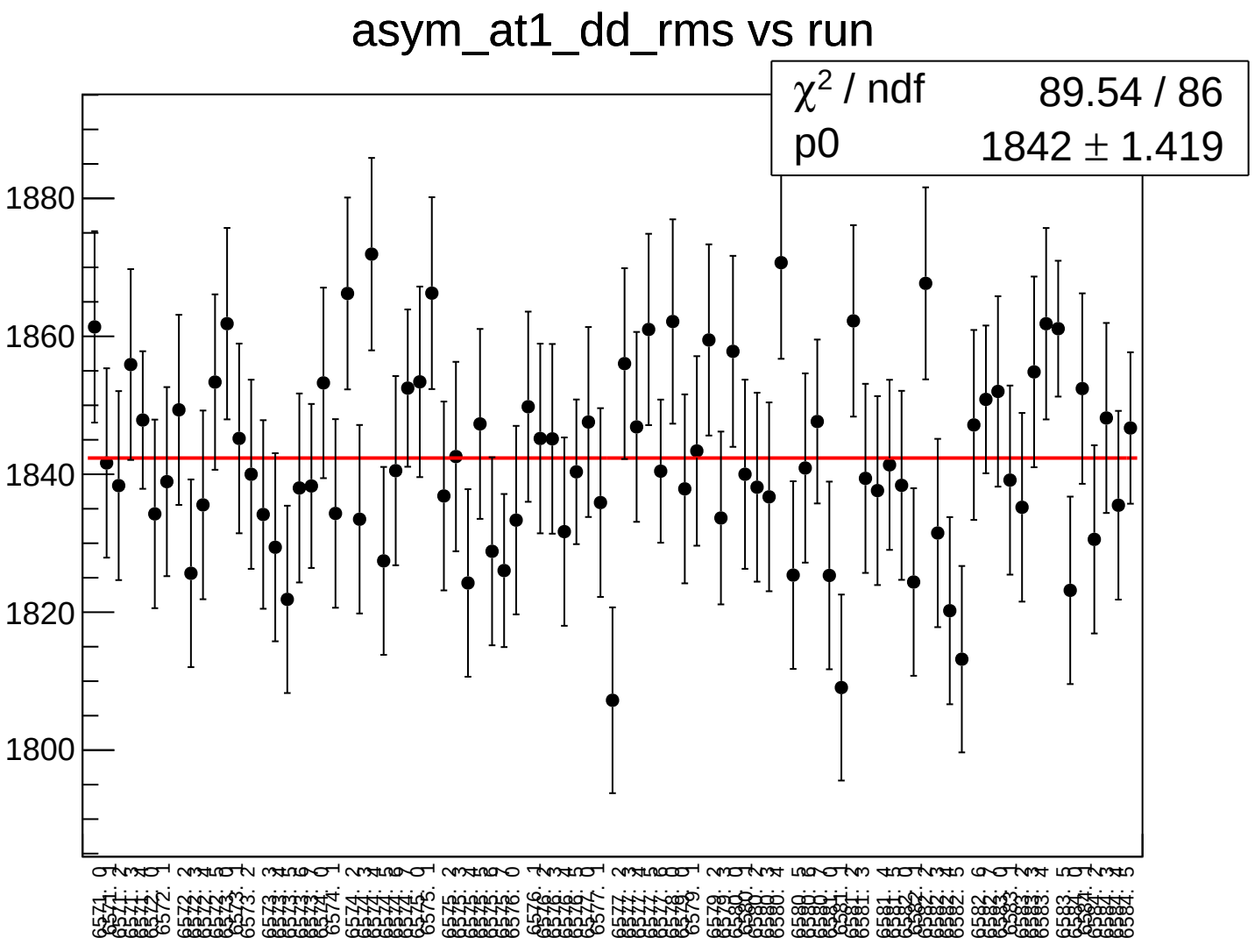

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.5 / 86
p0 852.9 ± 429
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 603.3
Std Dev 0
3
2
1
0
−1
−2

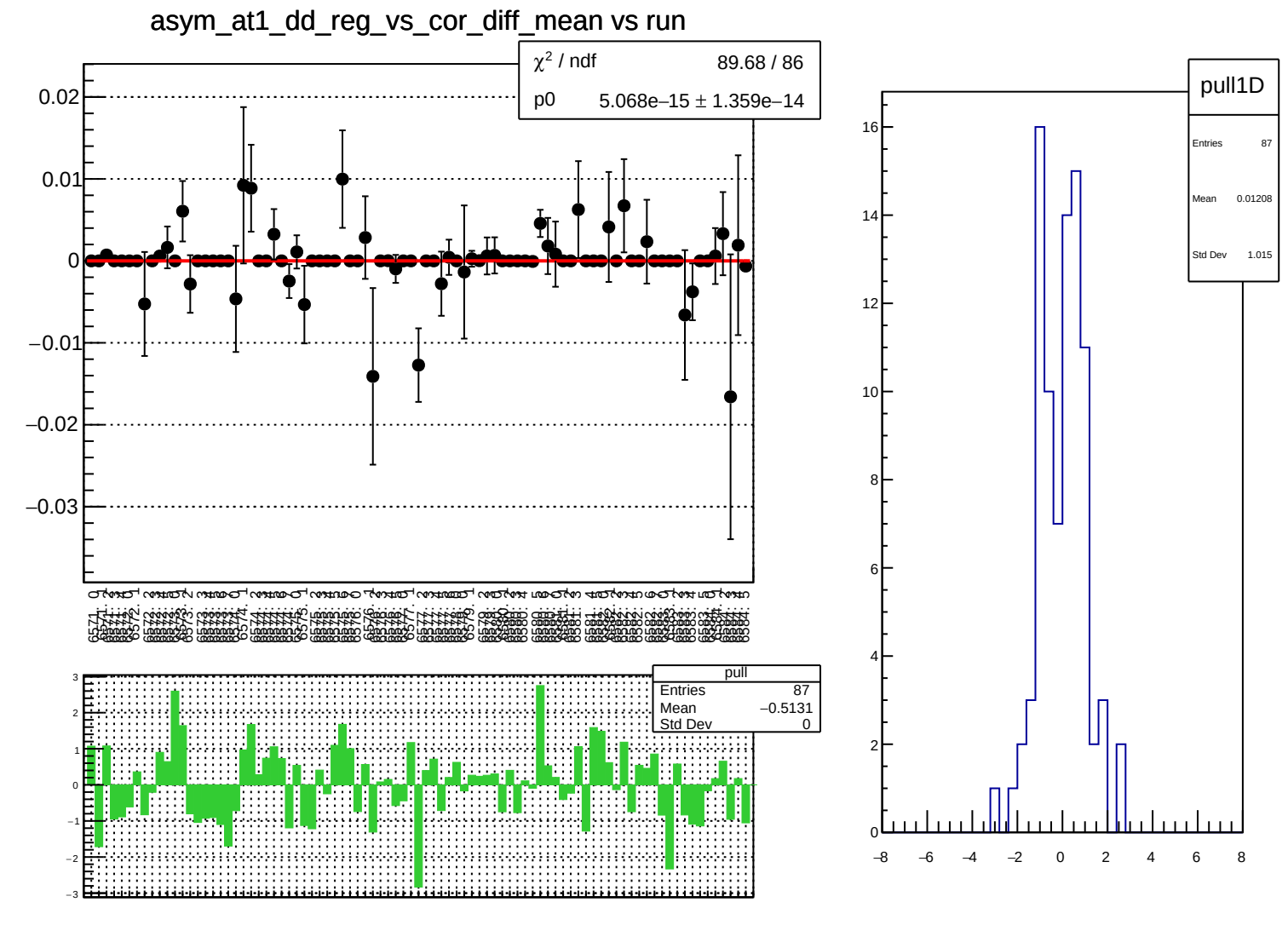

pull1D
Entries 87
Mean 0.005267
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

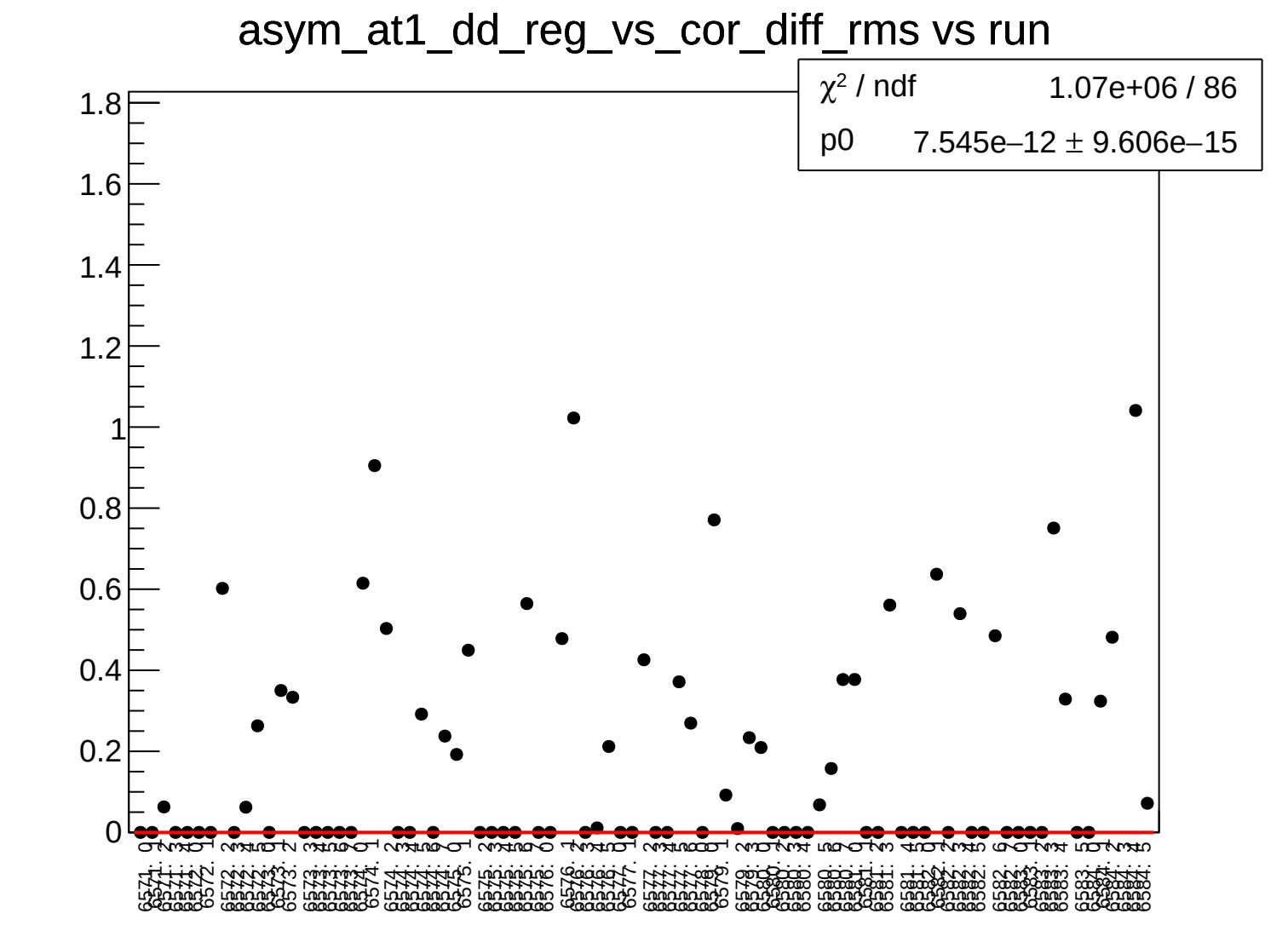

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.711e+04 / 86
p0 392 ± 0.3034
550
500
450
400
350

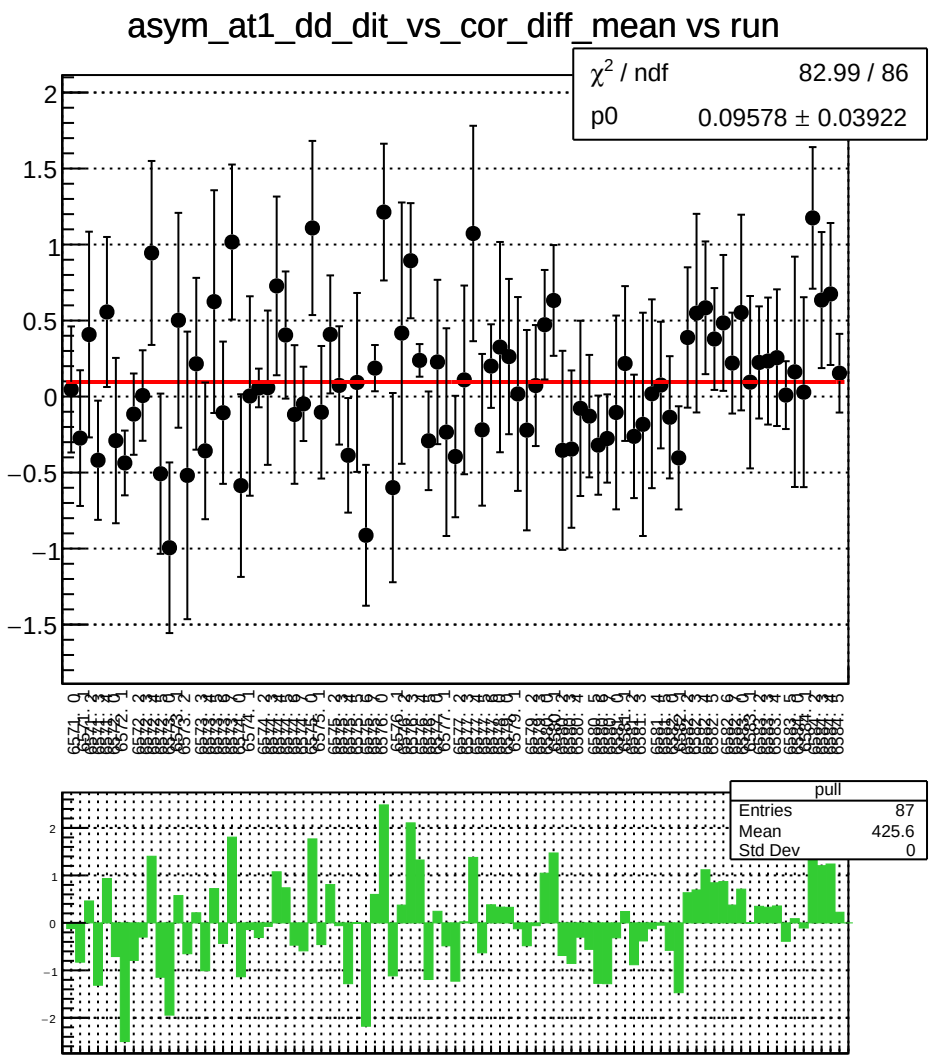

asym_at1_dd_mean vs run
χ² / ndf 74.43 / 86
p0 −2410 ± 2006
pull
Entries 87
Mean 226.1
Std Dev 0

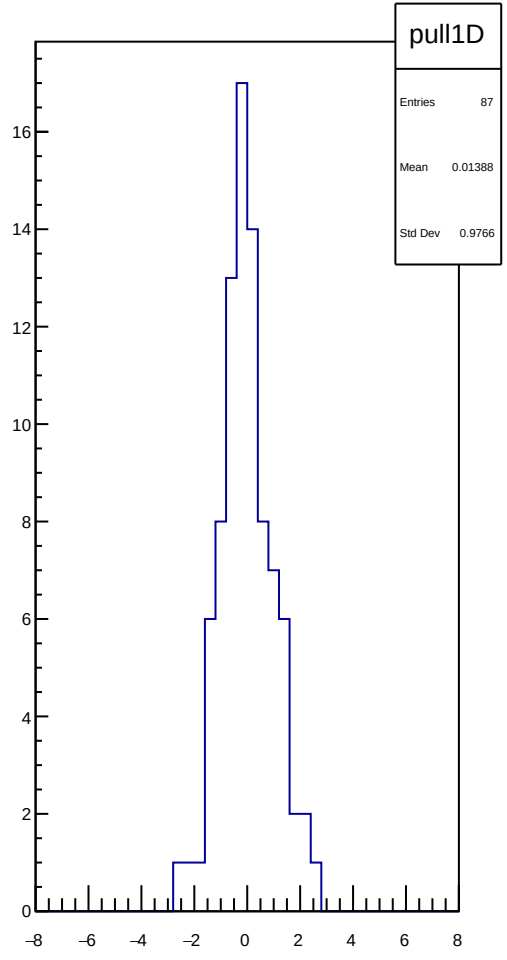

pull1D
Entries 87
Mean −0.01079
Std Dev 0.9249

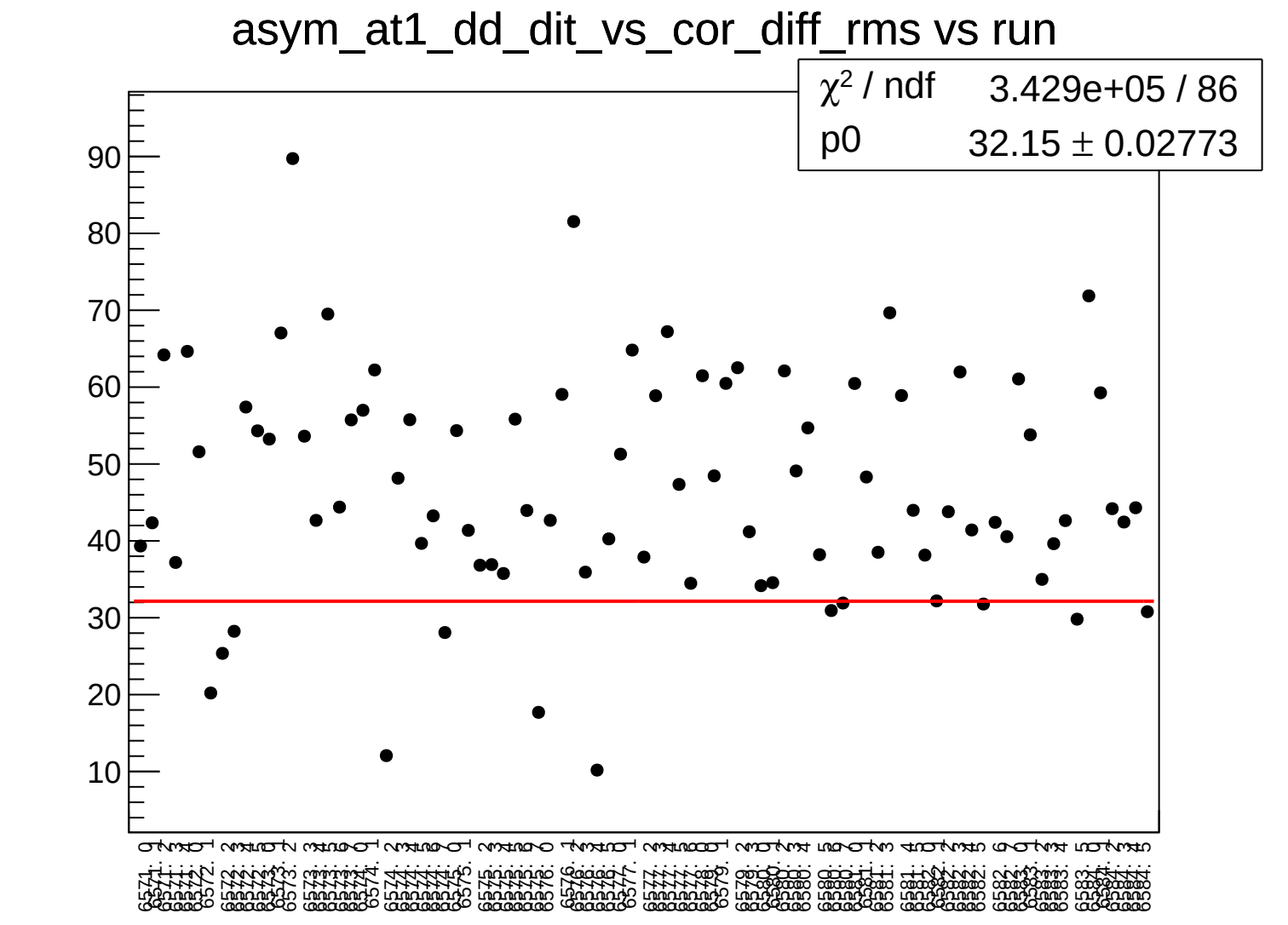

asym_at1_dd_rms vs run
χ² / ndf 89.54 / 86
p0 1842 ± 1.419
1880
1860
1840
1820
1800

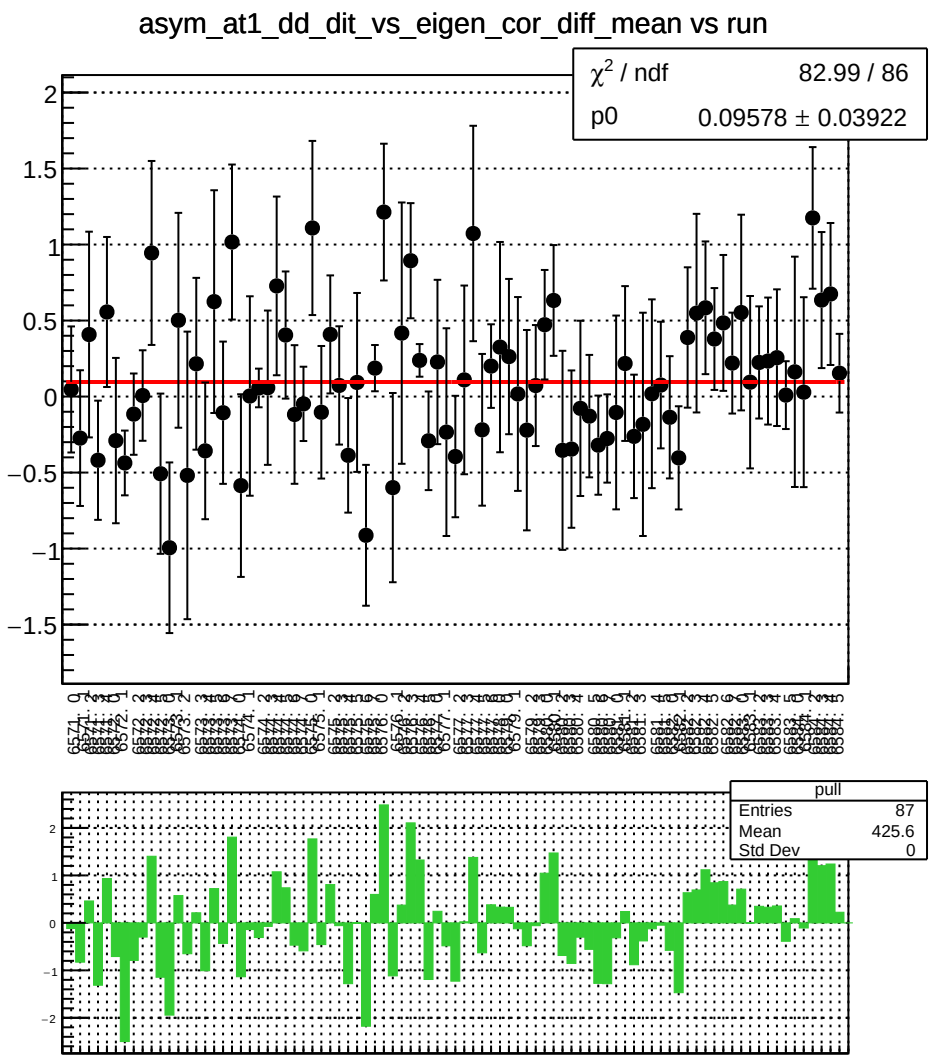

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 86
p0 5.068e−15 ± 1.359e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean −0.5131
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.01208
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

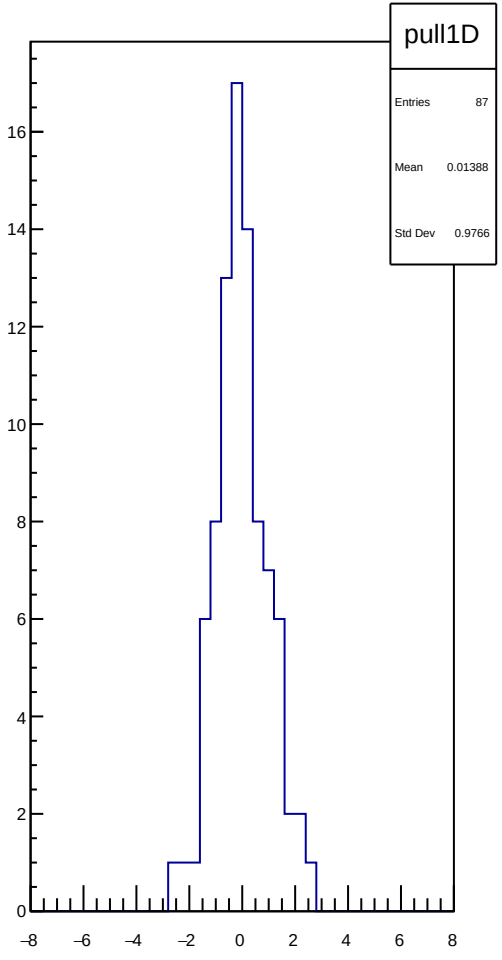

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.07e+06 / 86
p0 7.545e−12 ± 9.606e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

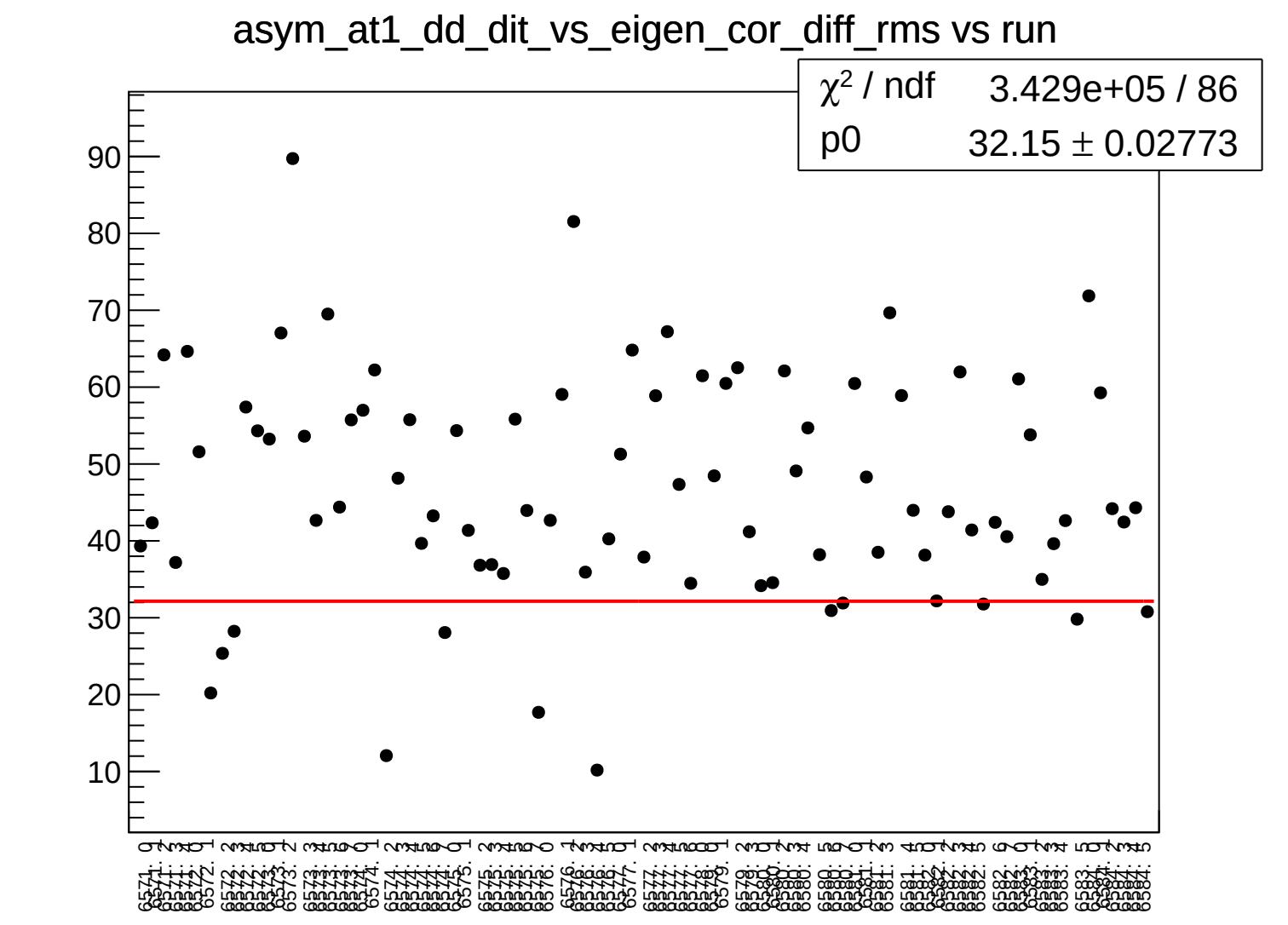

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.99 / 86
p0 0.09578 ± 0.03922
pull
Entries 87
Mean 425.6
Std Dev 0

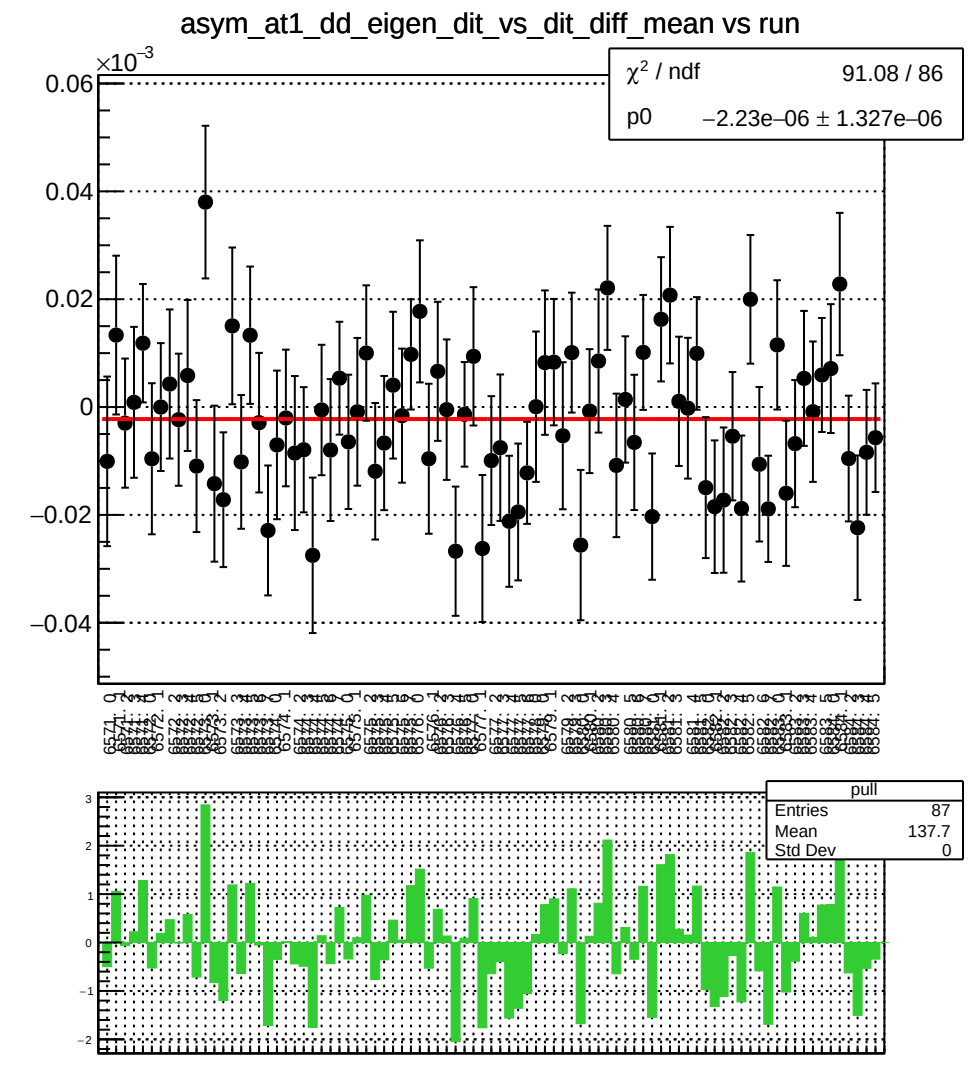

pull1D
Entries 87
Mean 0.01388
Std Dev 0.9766

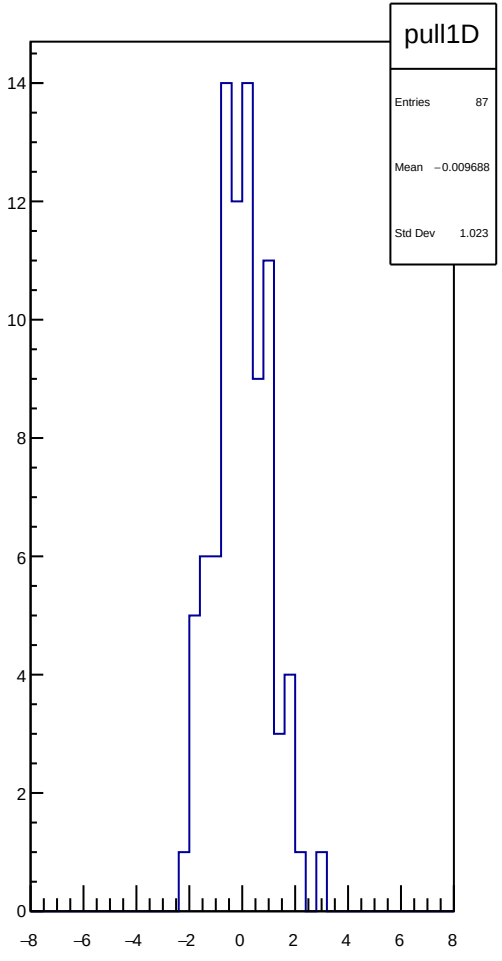

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.429e+05 / 86
p0 32.15 ± 0.02773
90
80
70
60
50
40
30
20
10

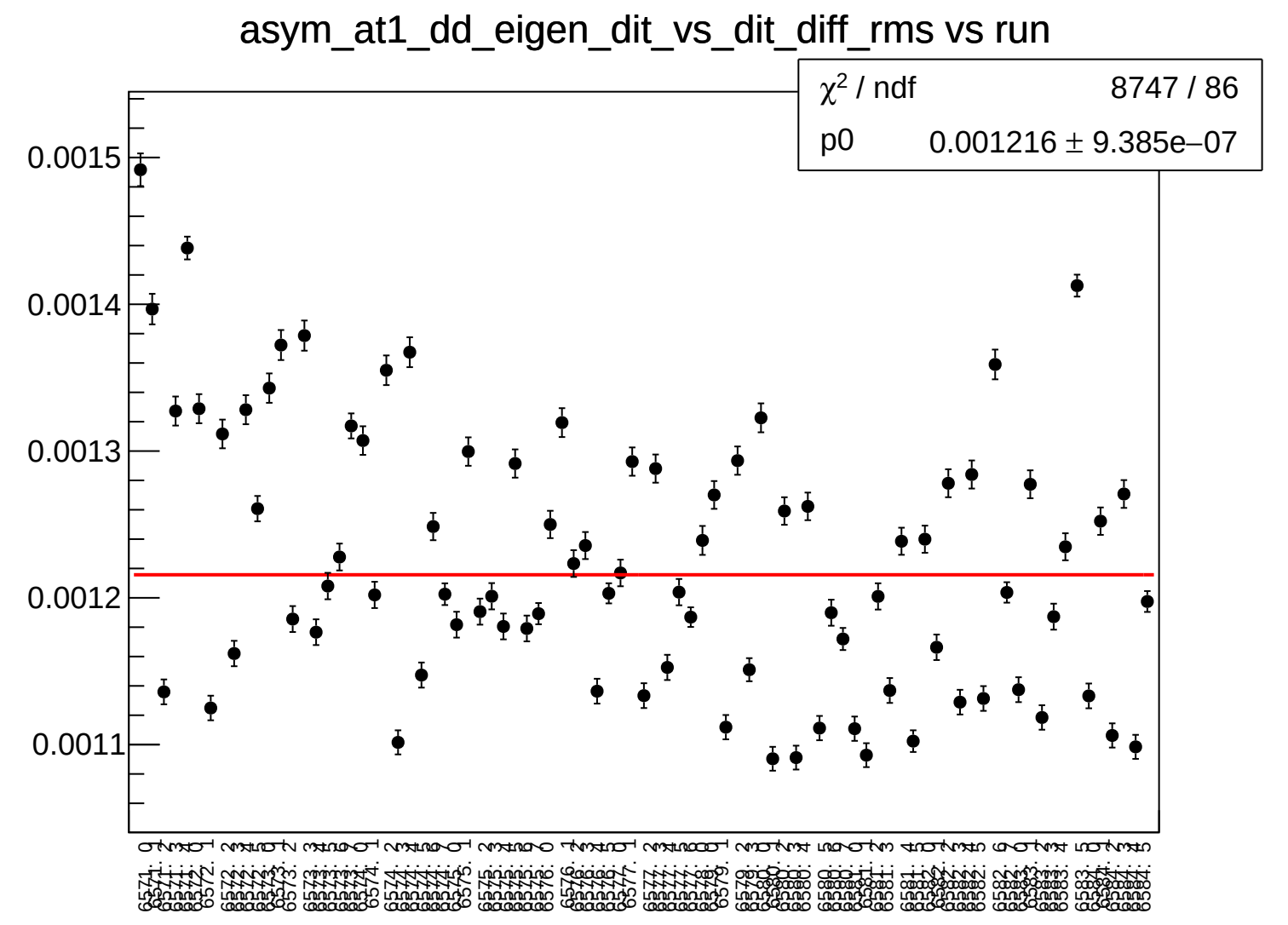

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.99 / 86
p0 0.09578 ± 0.03922
pull
Entries 87
Mean 425.6
Std Dev 0

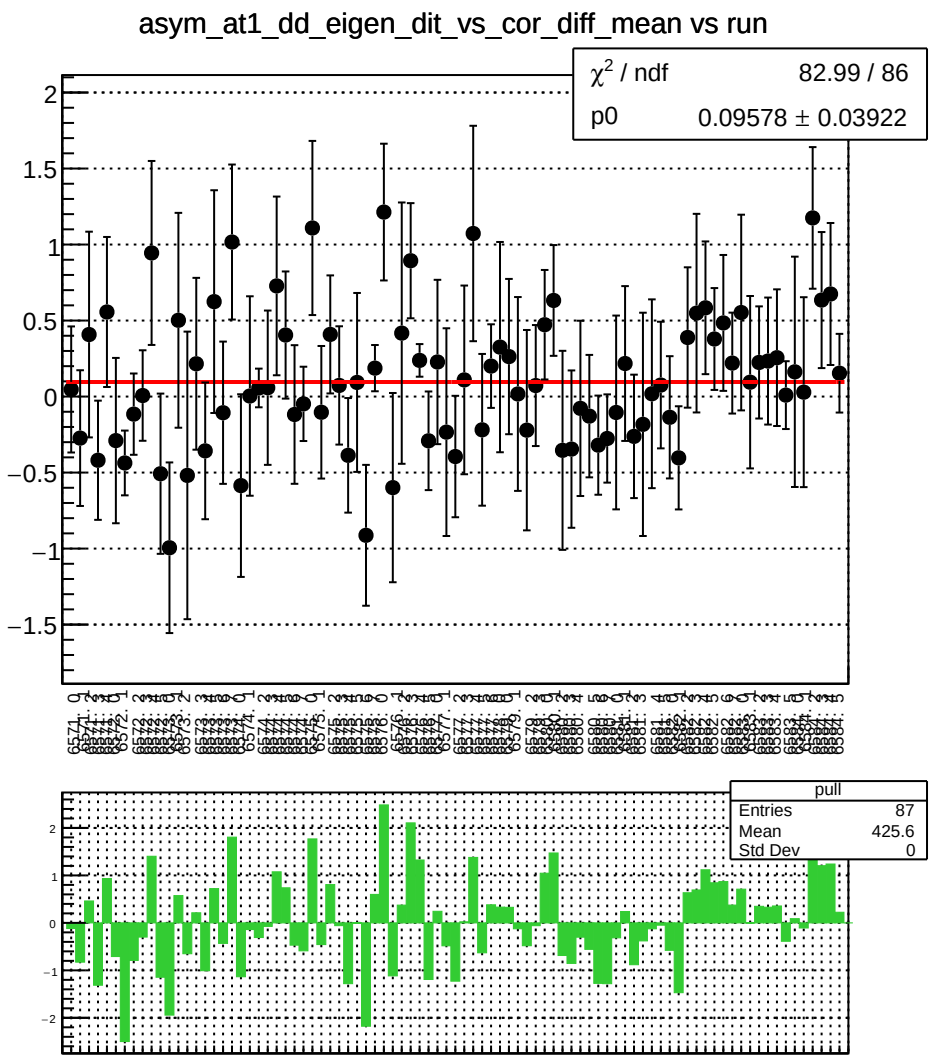

pull1D
Entries 87
Mean 0.01388
Std Dev 0.9766

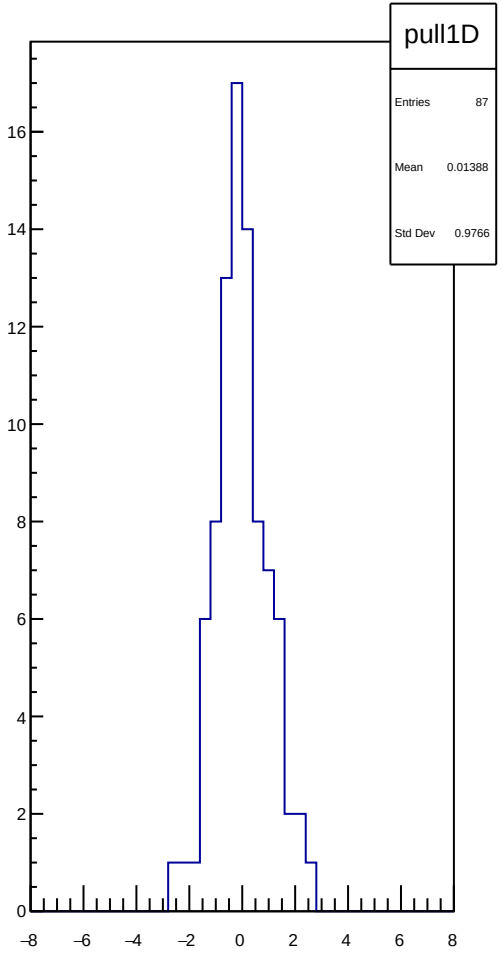

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.429e+05 / 86
p0 32.15 ± 0.02773
90
80
70
60
50
40
30
20
10

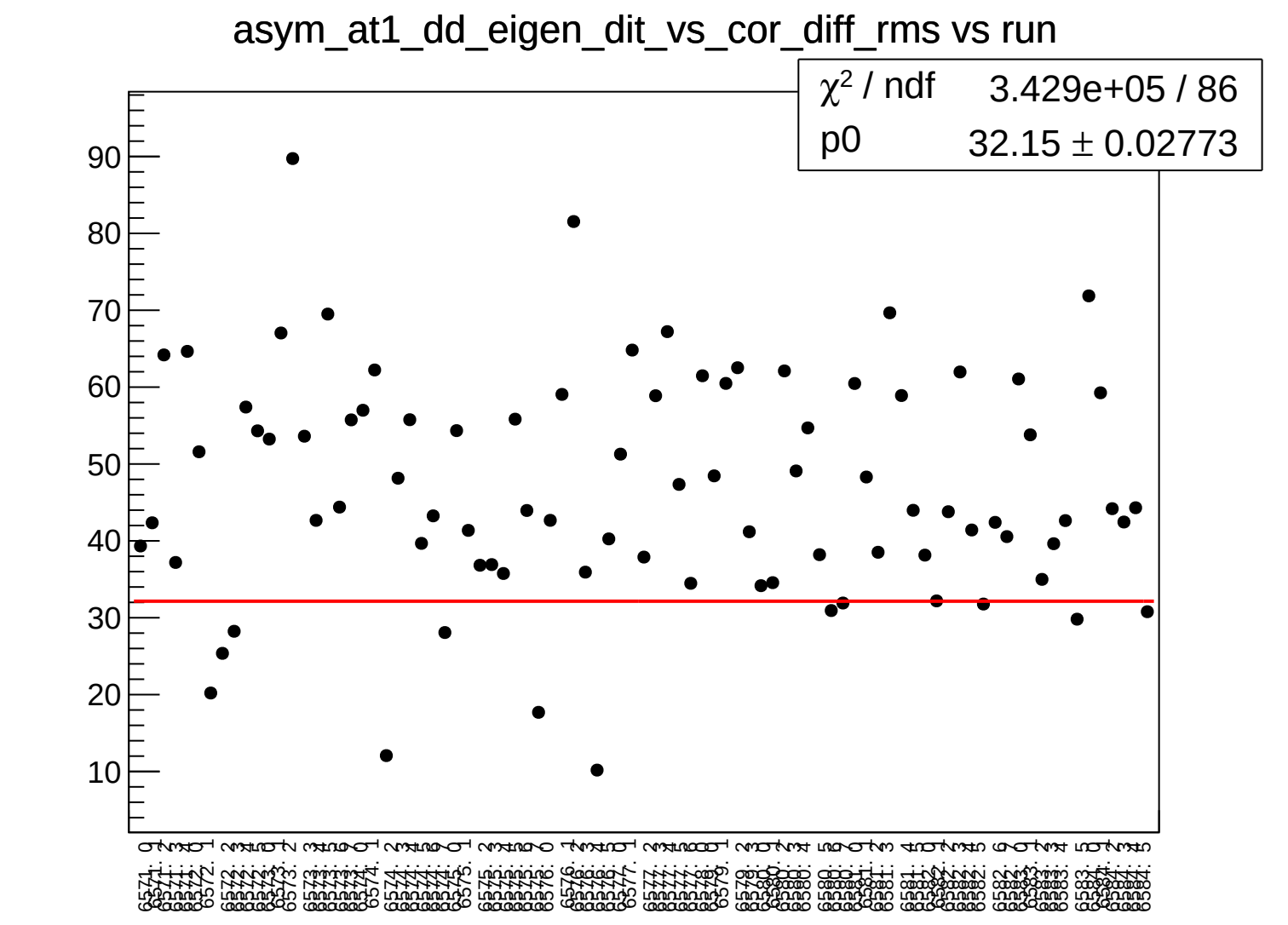

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.08 / 86
p0 −2.23e−06 ± 1.327e−06
pull
Entries 87
Mean 137.7
Std Dev 0

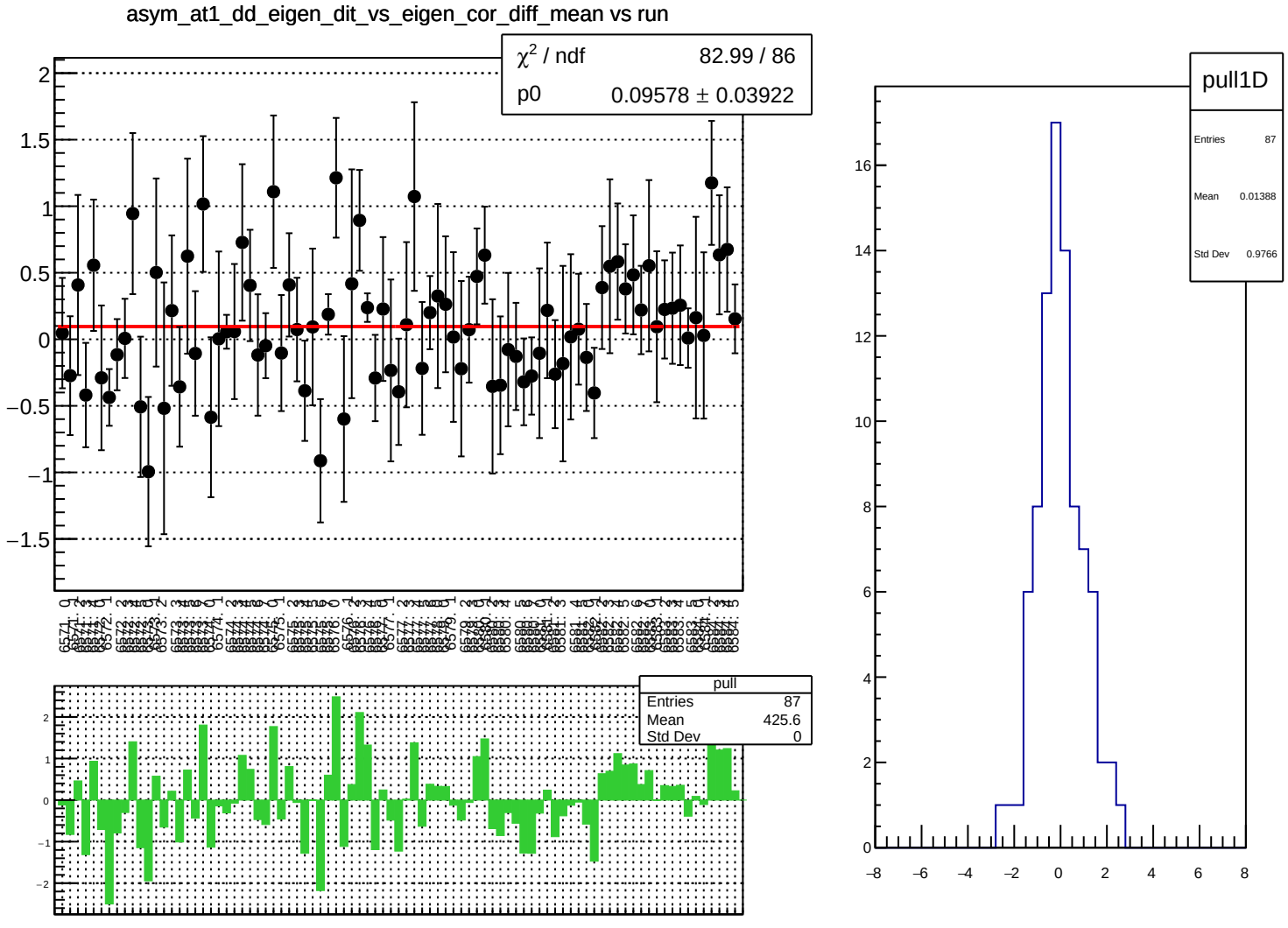

pull1D
Entries 87
Mean −0.009688
Std Dev 1.023

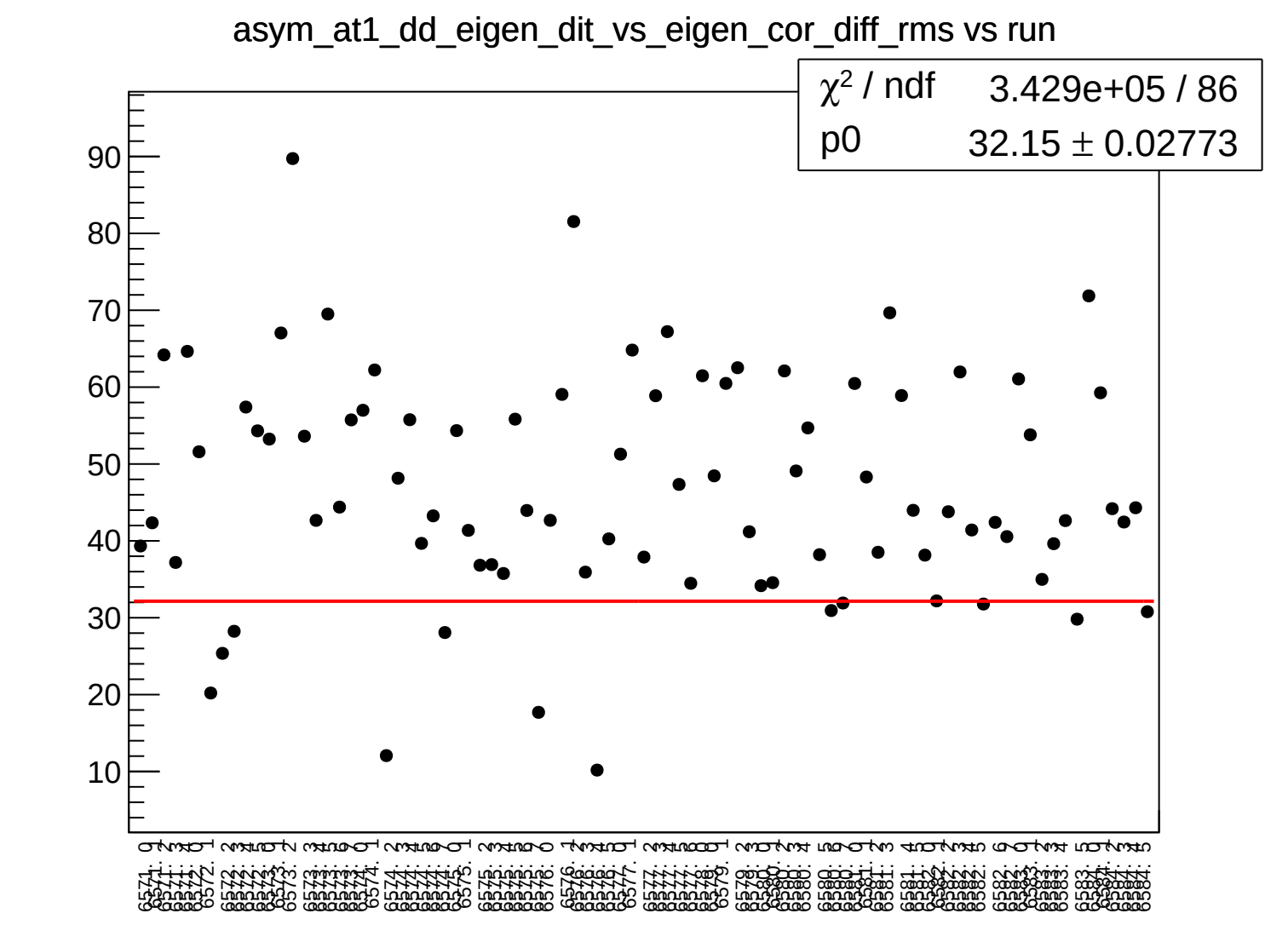

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8747 / 86
p0 0.001216 ± 9.385e−07
0.0015
0.0014
0.0013
0.0012
0.0011

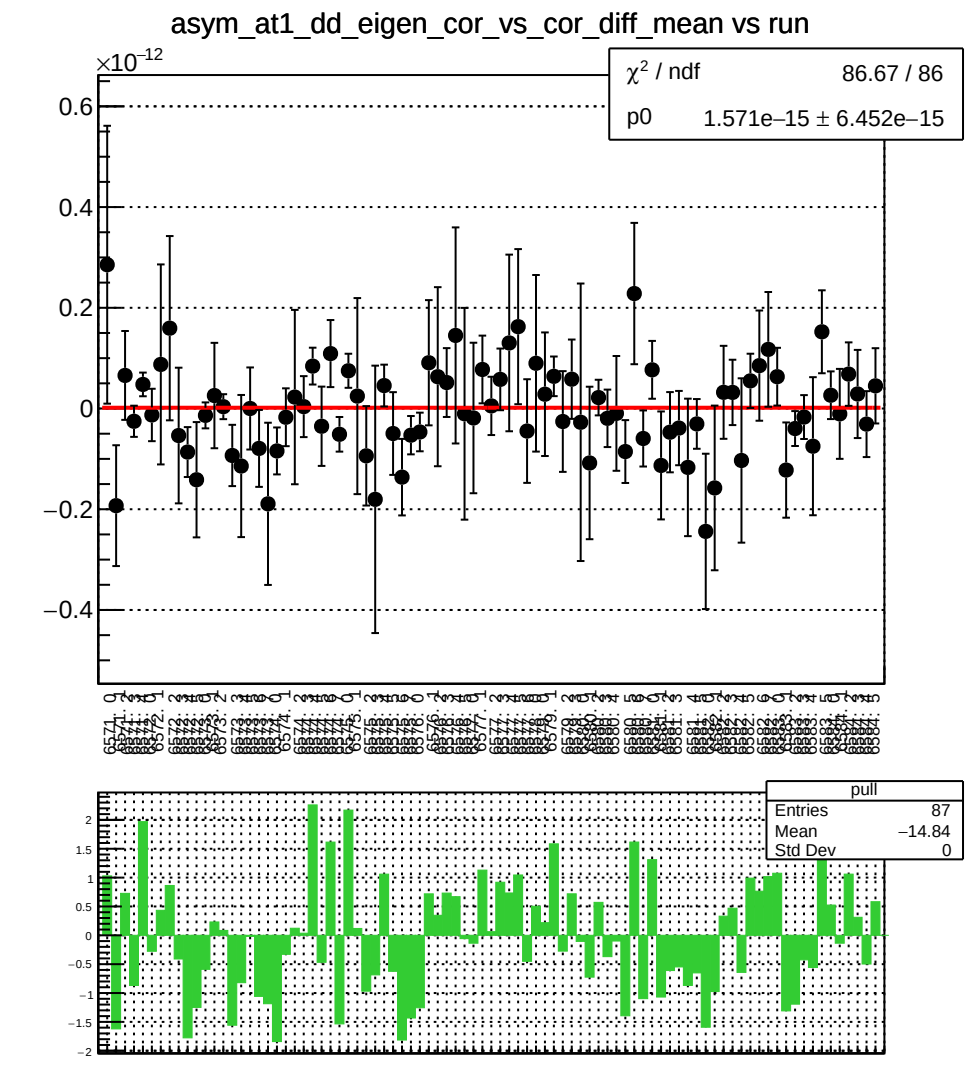

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.99 / 86
p0 0.09578 ± 0.03922
pull
Entries 87
Mean 425.6
Std Dev 0

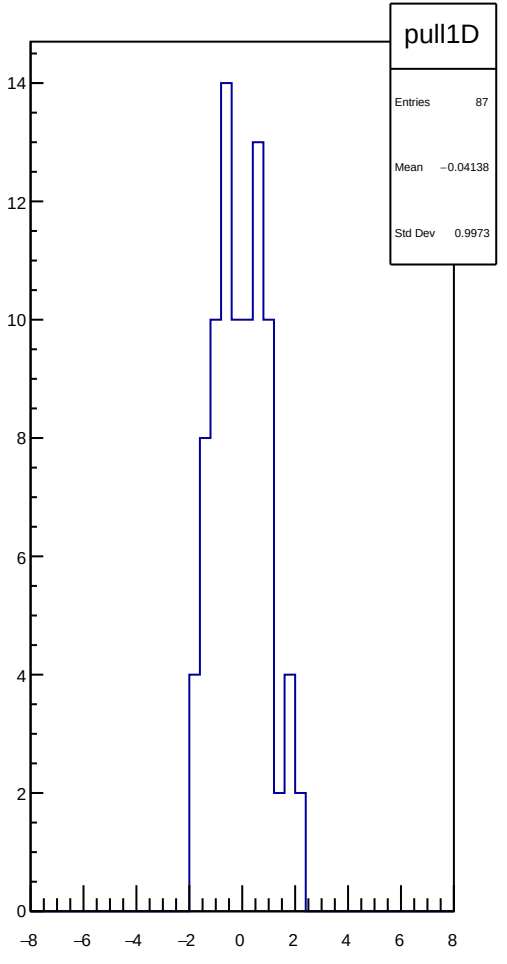

pull1D
Entries 87
Mean 0.01388
Std Dev 0.9766

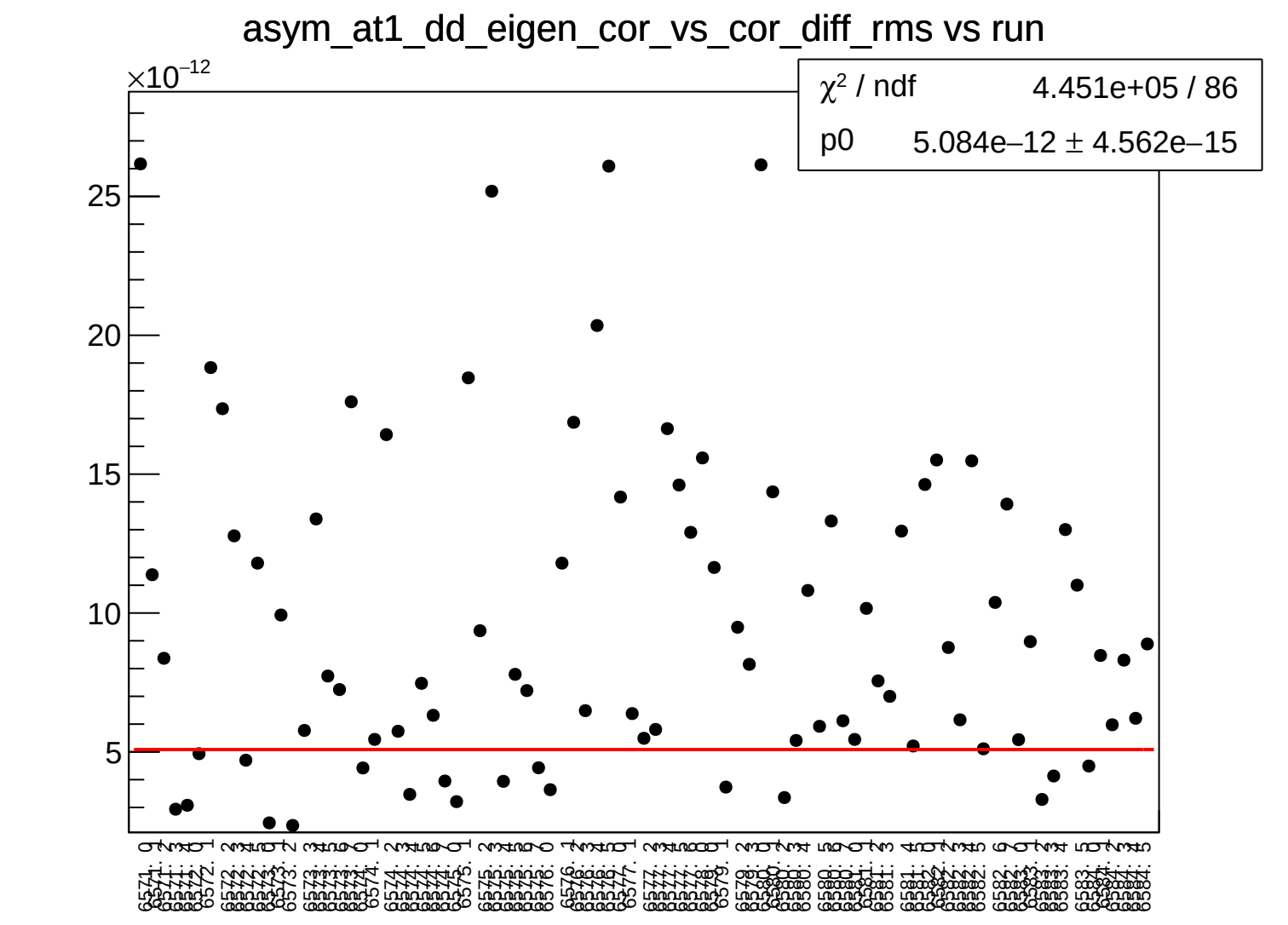

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.429e+05 / 86
p0 32.15 ± 0.02773
90
80
70
60
50
40
30
20
10

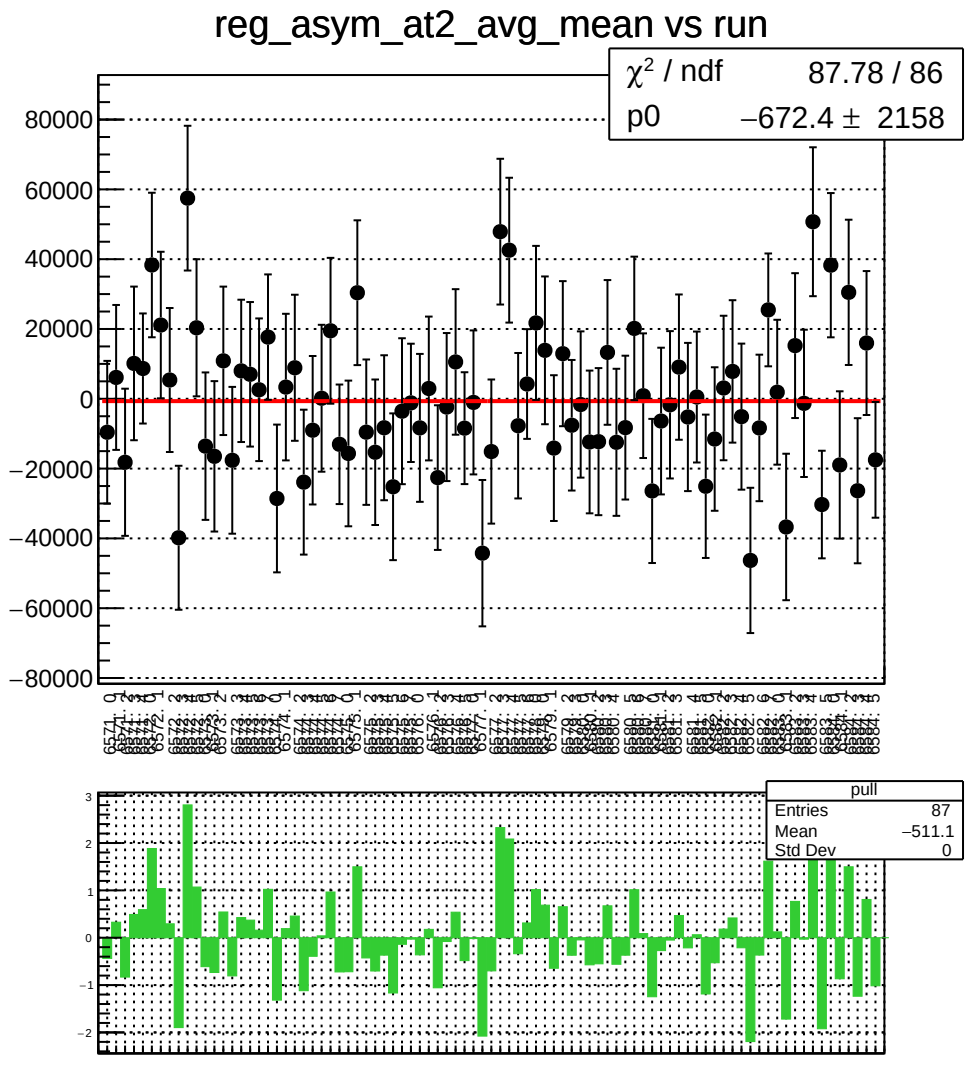

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.99 / 86
p0 0.09578 ± 0.03922
pull
Entries 87
Mean 425.6
Std Dev 0
pull1D
Entries 87
Mean 0.01388
Std Dev 0.9766

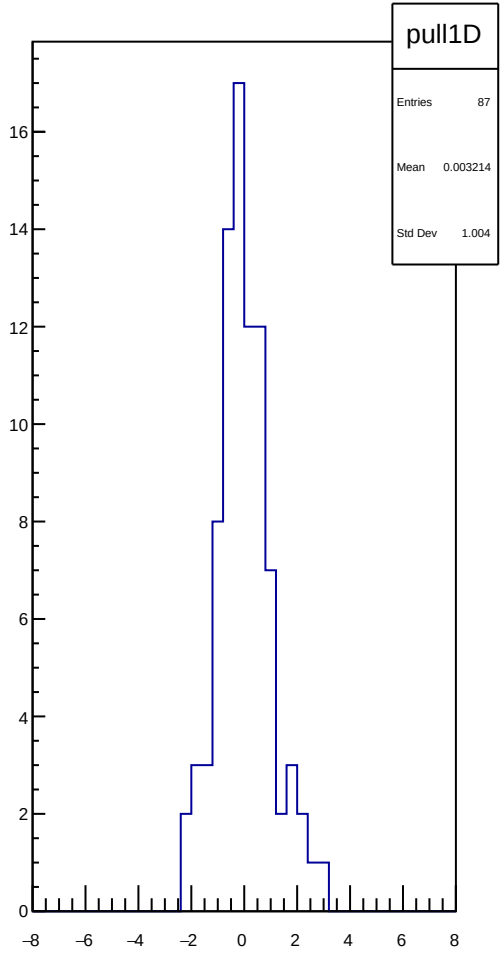

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.429e+05 / 86
p0 32.15 ± 0.02773
90
80
70
60
50
40
30
20
10

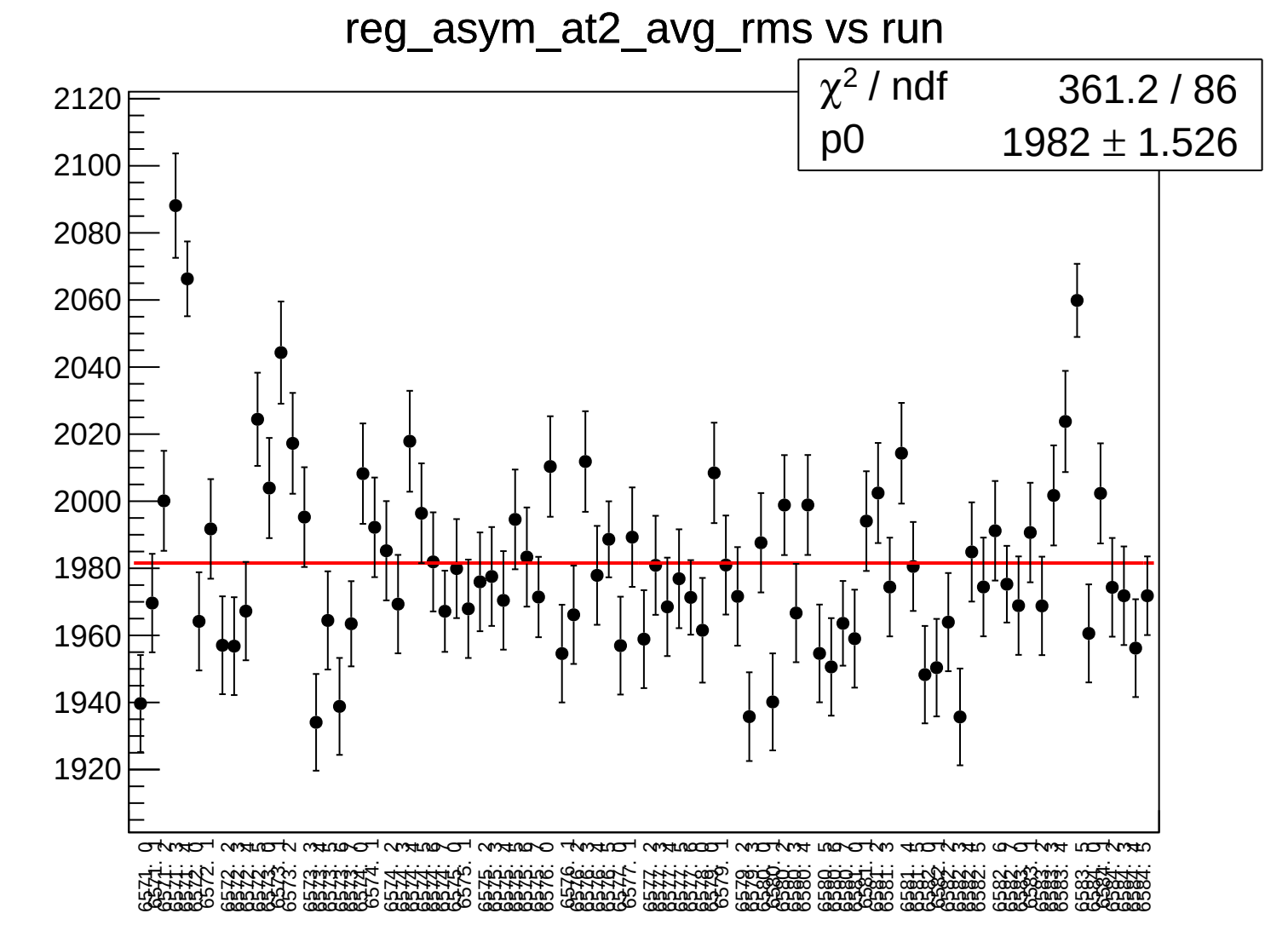

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.67 / 86
p0 1.571e−15 ± 6.452e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 87
Mean −14.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

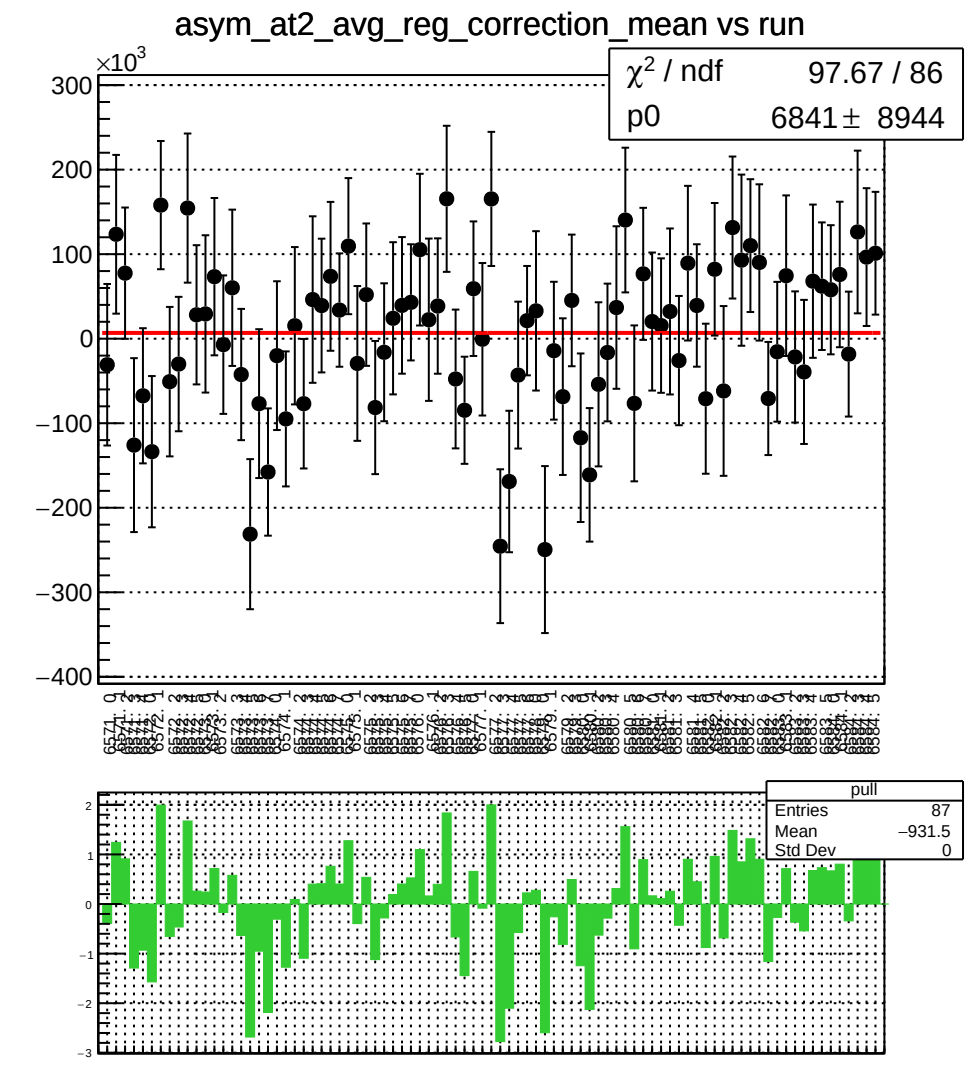

pull1D
Entries 87
Mean −0.04138
Std Dev 0.9973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

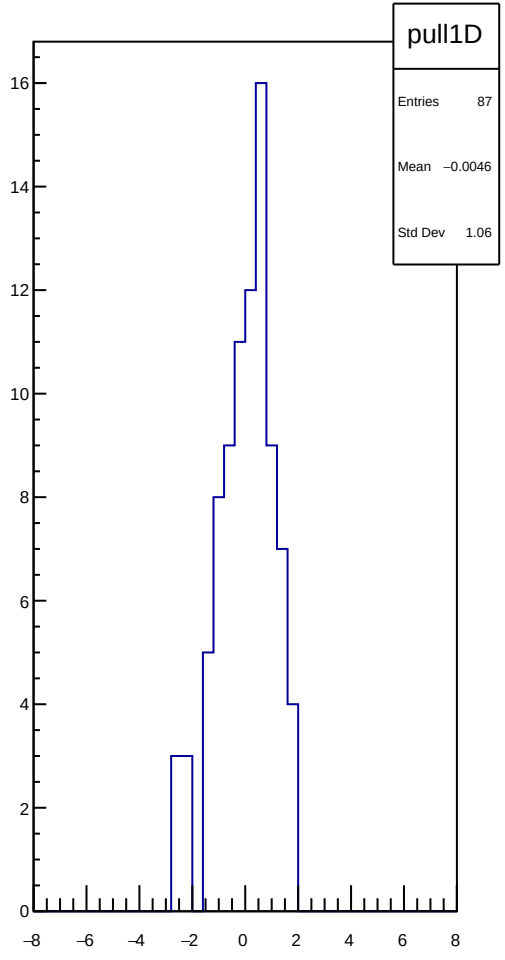

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.451e+05 / 86
p0 5.084e−12 ± 4.562e−15
25
20
15
10
5

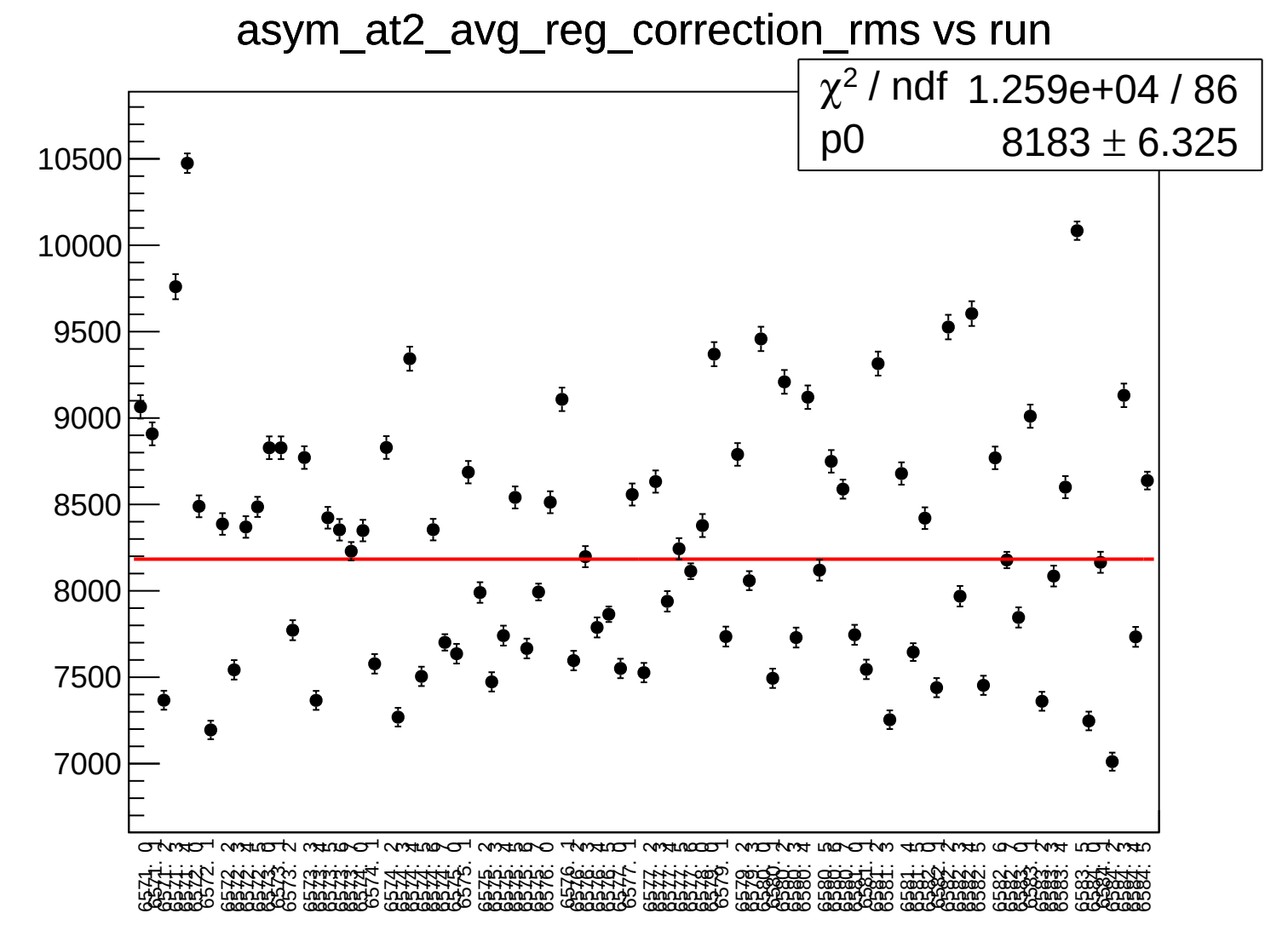

reg_asym_at2_avg_mean vs run
χ² / ndf 87.78 / 86
p0 −672.4 ± 2158
pull
Entries 87
Mean −511.1
Std Dev 0

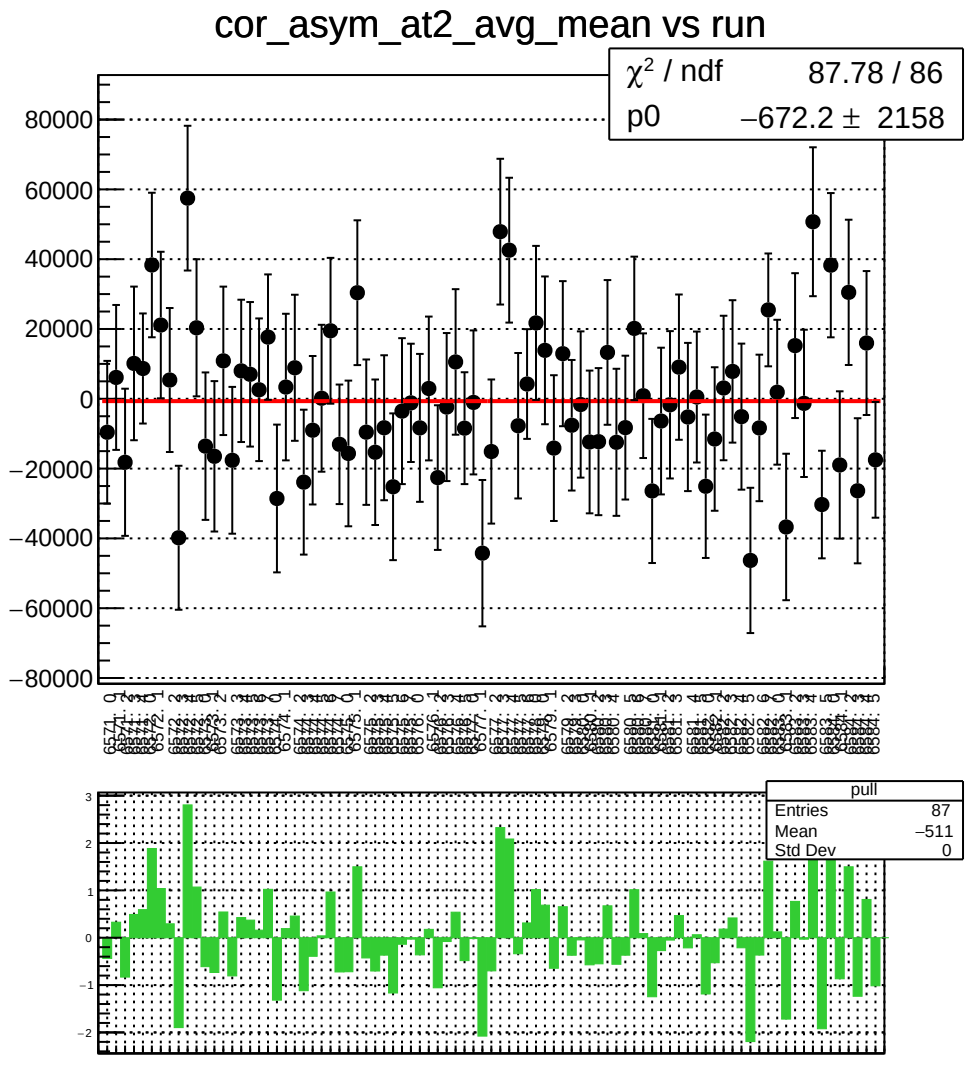

pull1D
Entries 87
Mean 0.003214
Std Dev 1.004

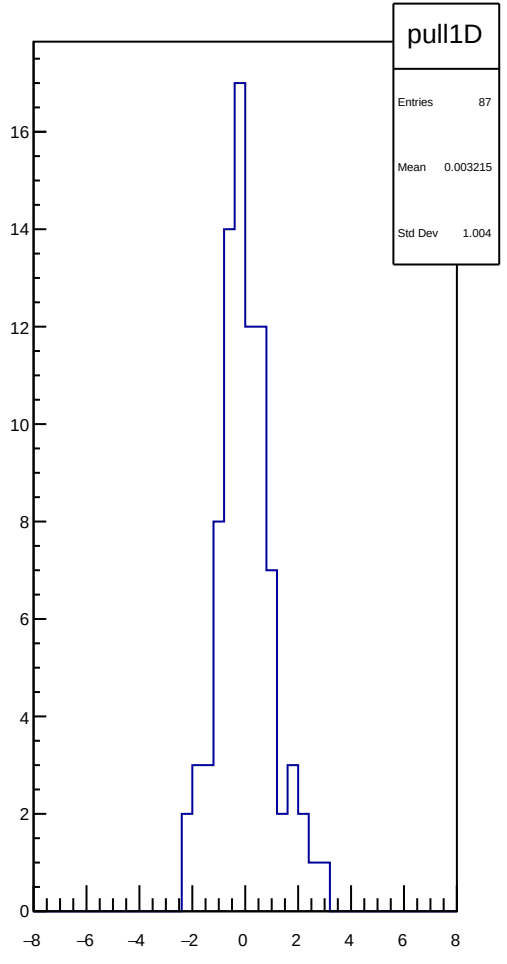

reg_asym_at2_avg_rms vs run
χ² / ndf 361.2 / 86
p0 1982 ± 1.526
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

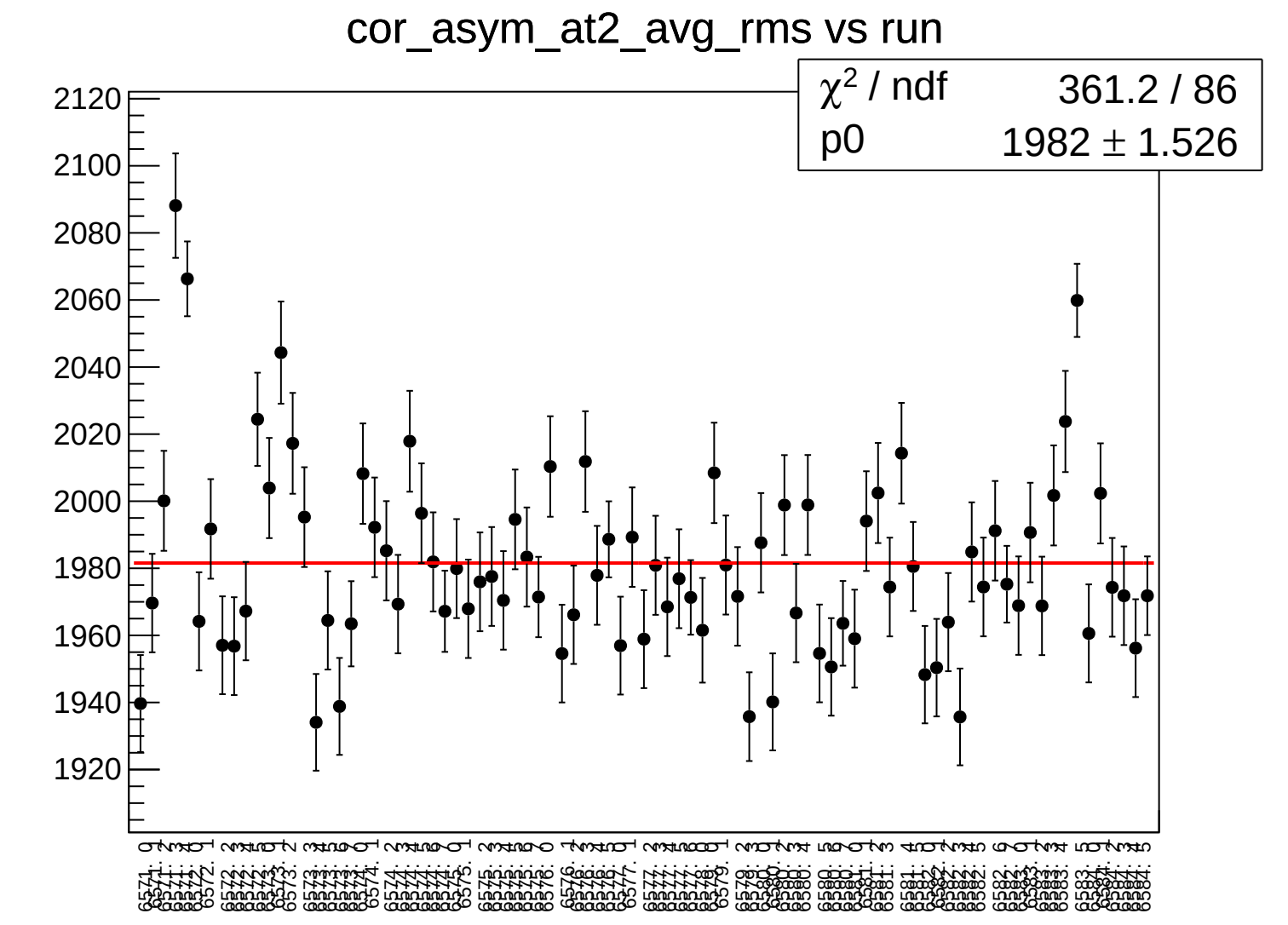

asym_at2_avg_reg_correction_mean vs run
χ² / ndf 97.67 / 86
p0 6841 ± 8944
×10³
pull
Entries 87
Mean −931.5
Std Dev 0

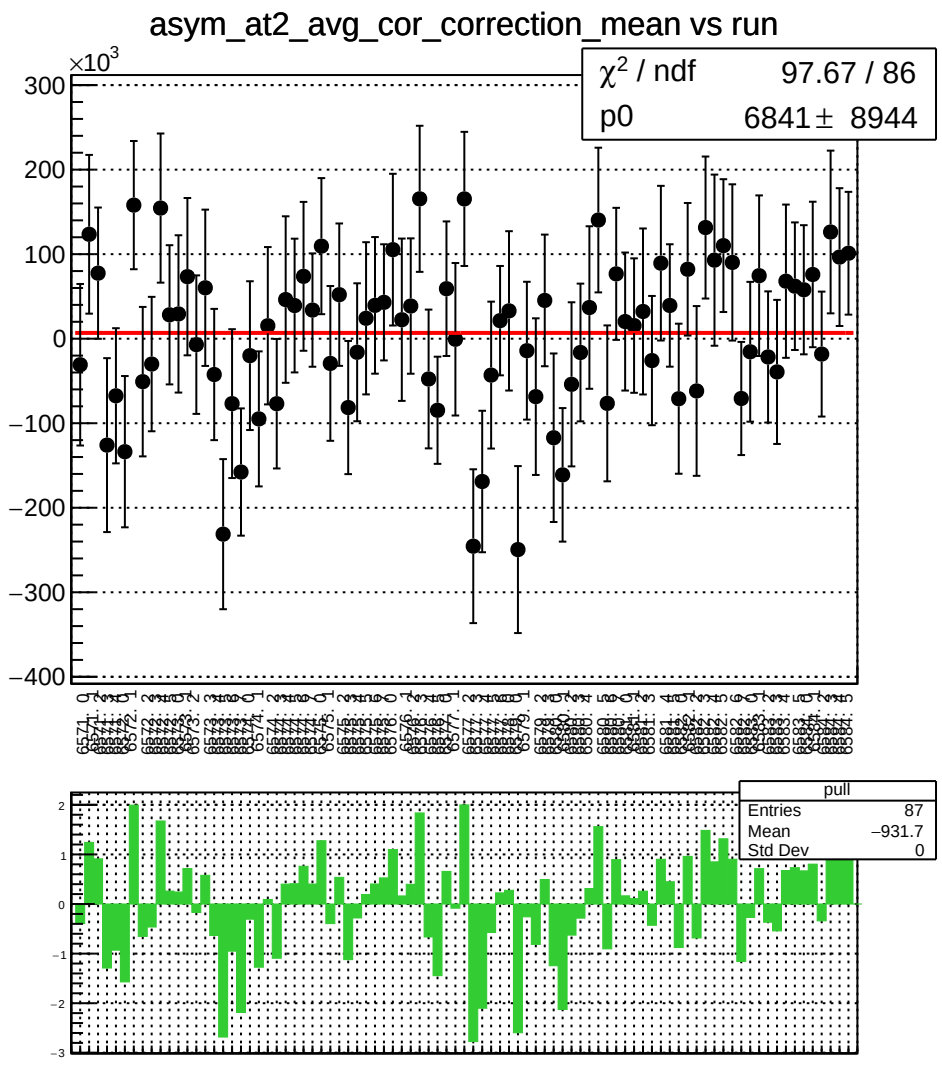

pull1D
Entries 87
Mean −0.0046
Std Dev 1.06

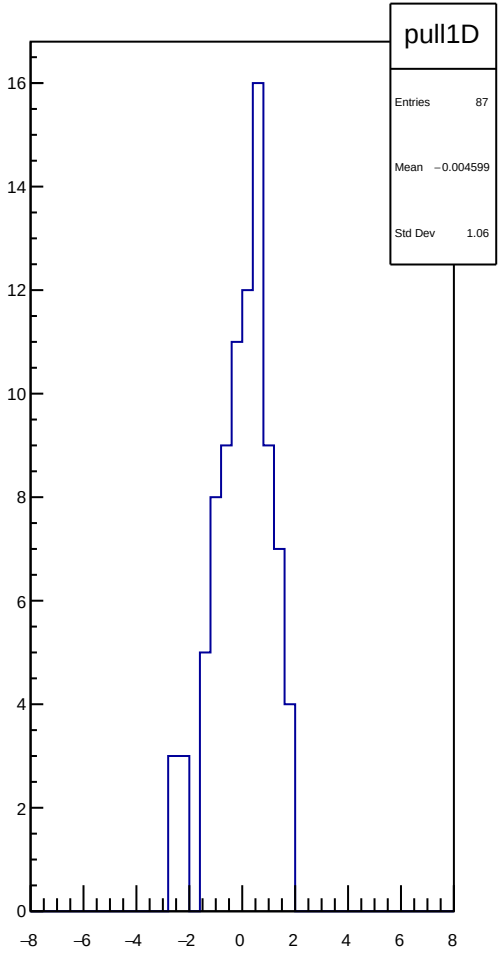

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.259e+04 / 86
p0 8183 ± 6.325
10500
10000
9500
9000
8500
8000
7500
7000

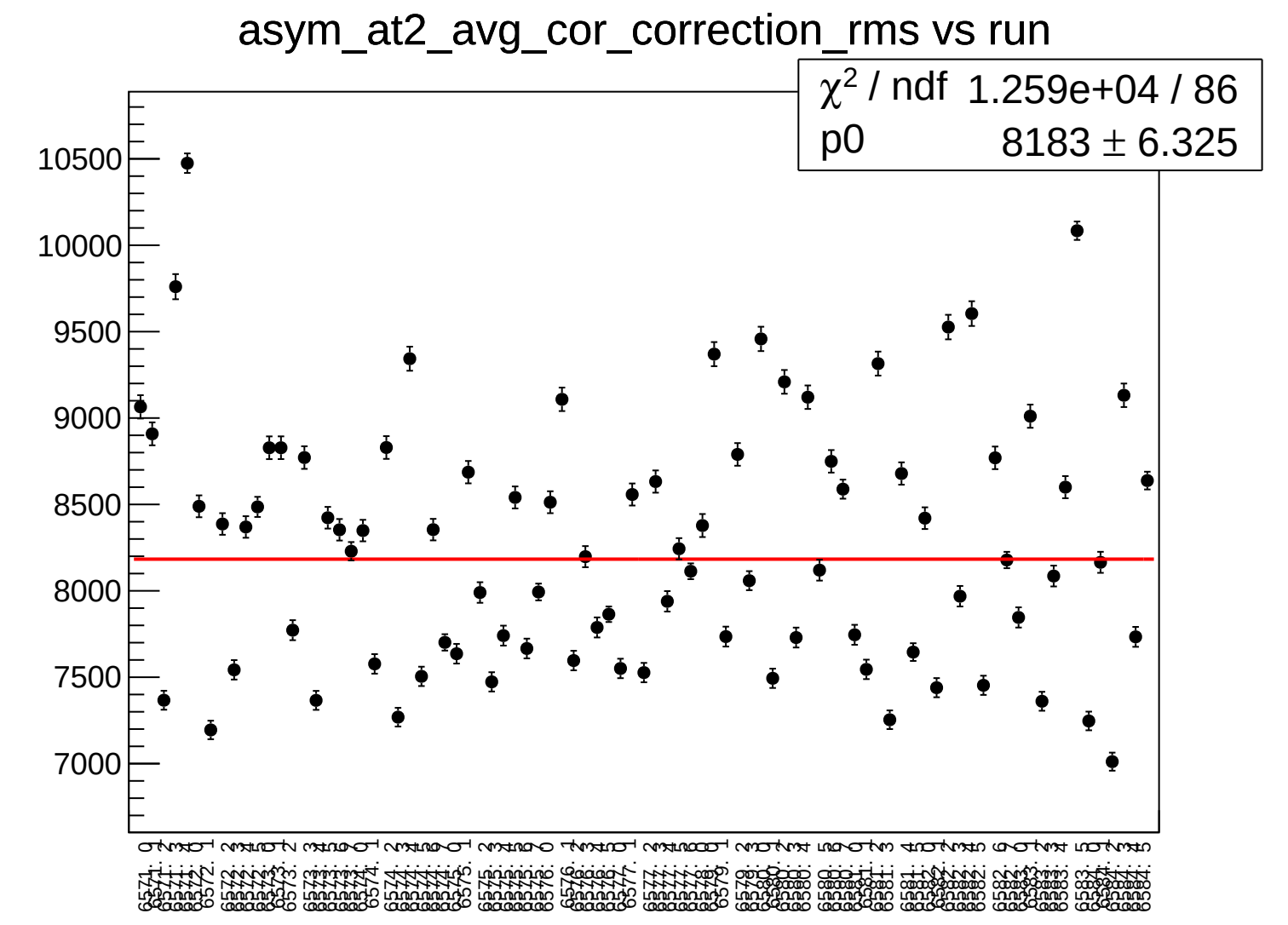

cor_asym_at2_avg_mean vs run
χ² / ndf 87.78 / 86
p0 −672.2 ± 2158
pull
Entries 87
Mean −511
Std Dev 0

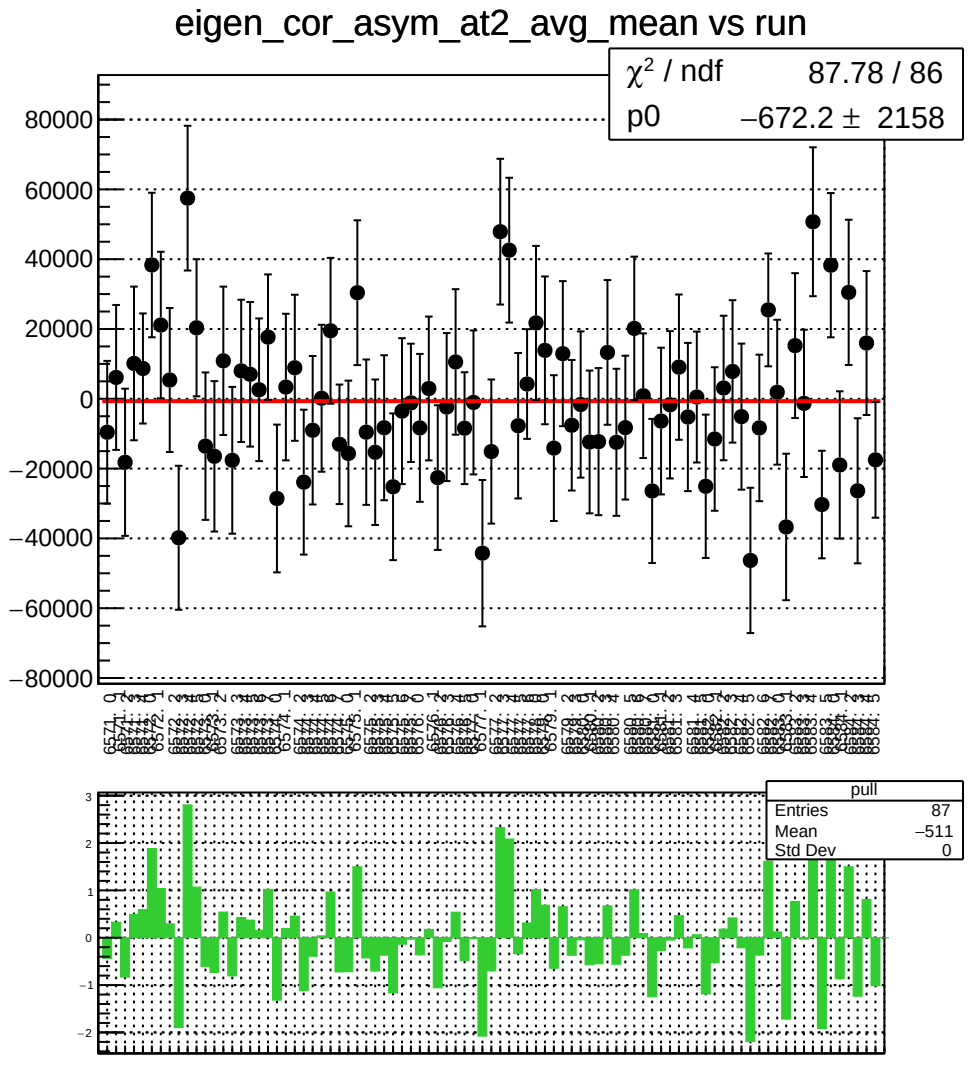

pull1D
Entries 87
Mean 0.003215
Std Dev 1.004

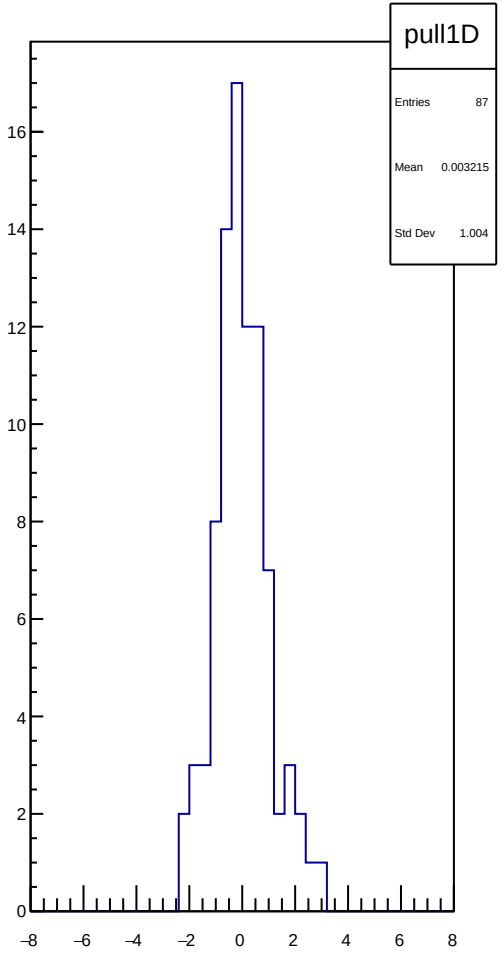

cor_asym_at2_avg_rms vs run
χ^2 / ndf 361.2 / 86
p0 1982 ± 1.526
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

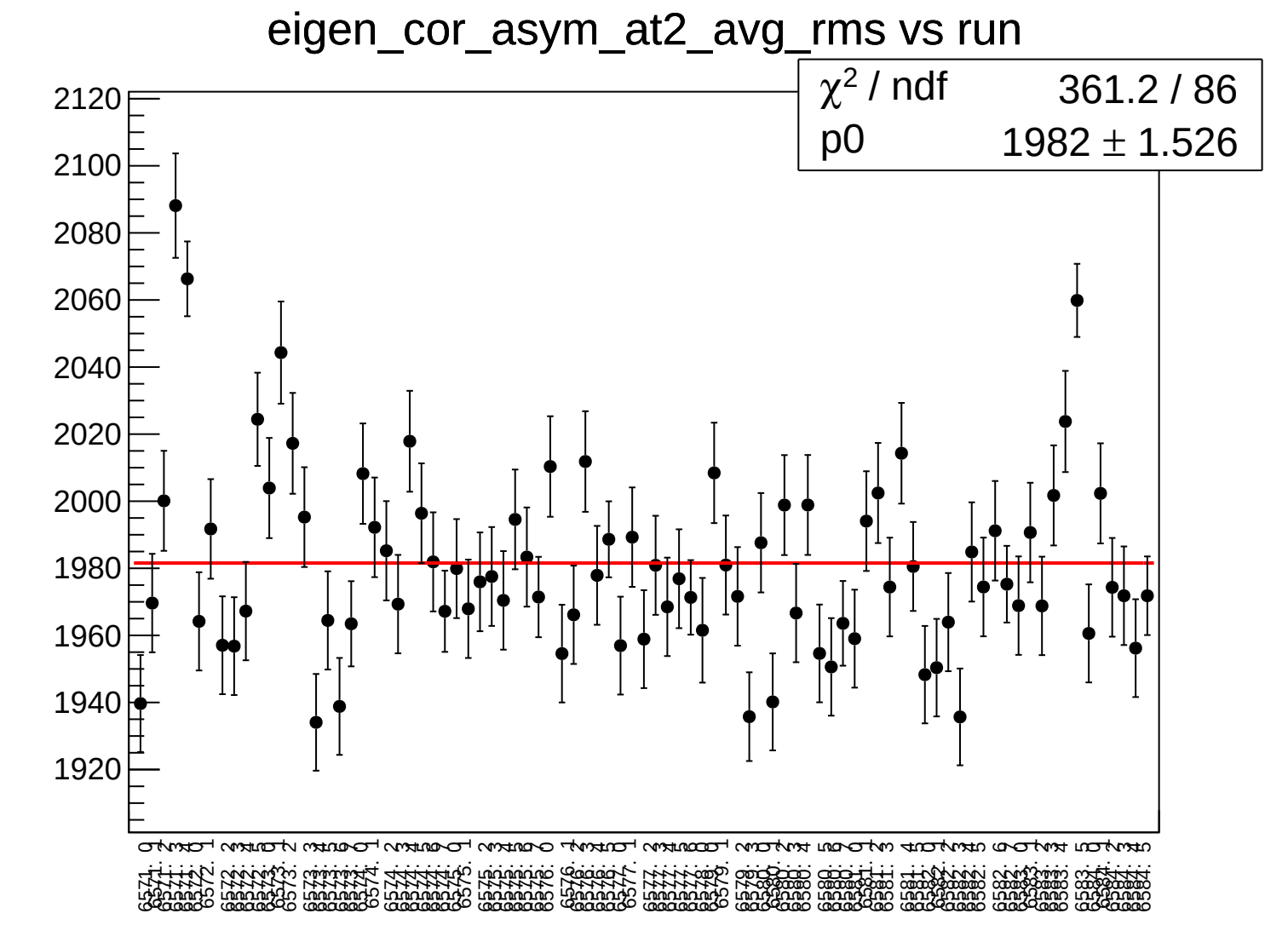

asym_at2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.67 / 86
p0 6841 ± 8944
pull
Entries 87
Mean −931.7
Std Dev 0

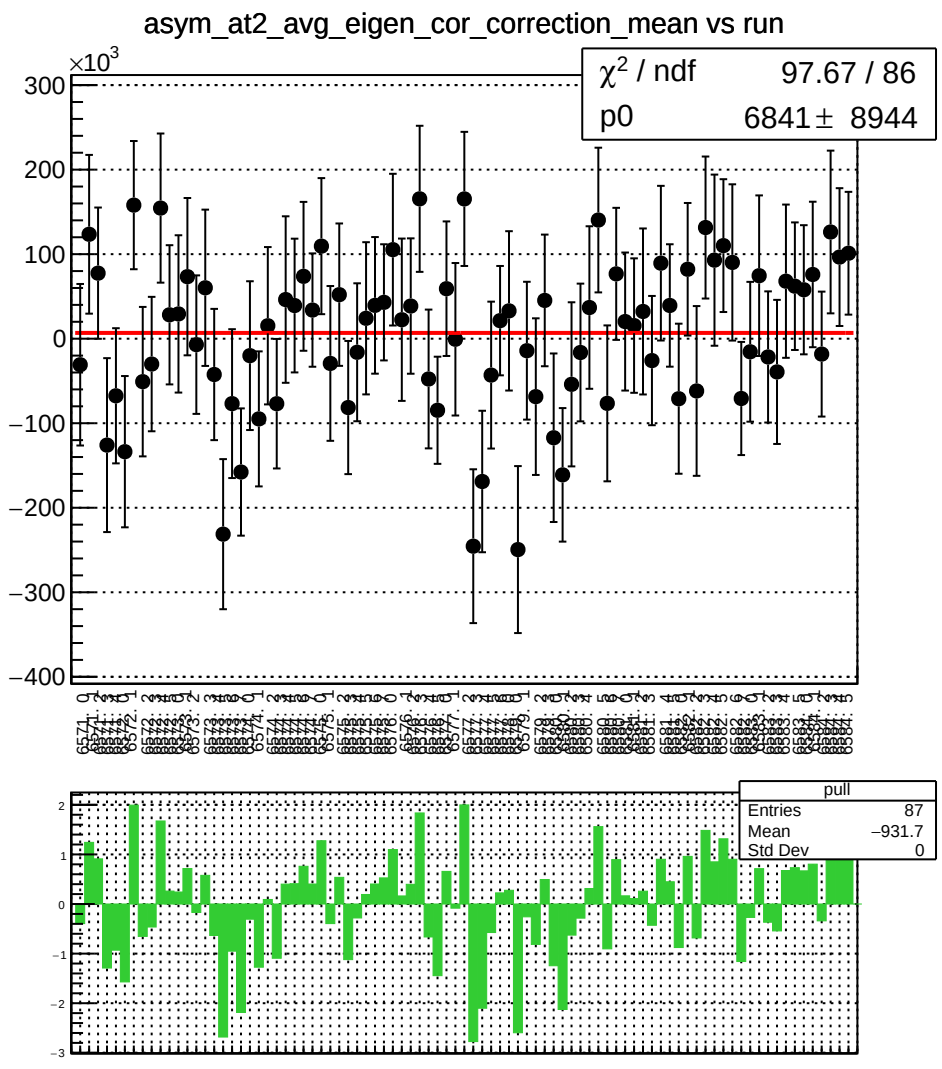

pull1D
Entries 87
Mean −0.004599
Std Dev 1.06

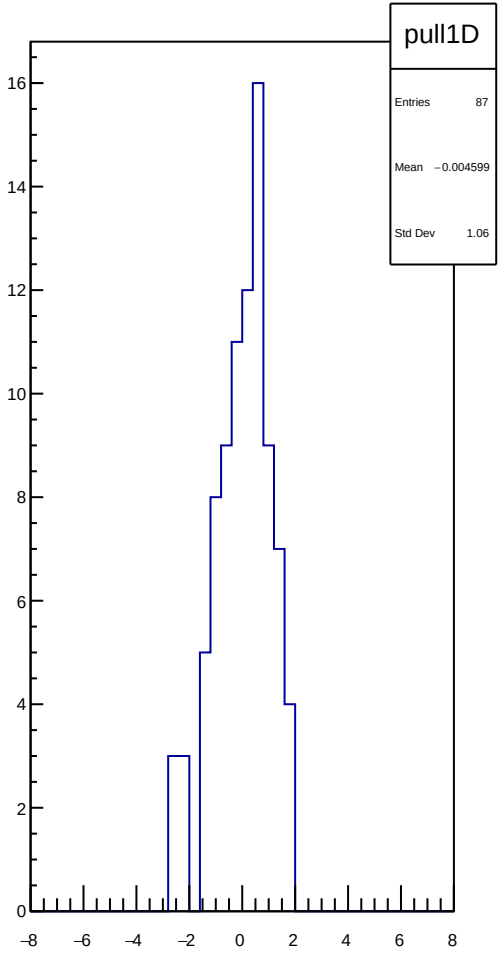

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.259e+04 / 86
p0 8183 ± 6.325
10500
10000
9500
9000
8500
8000
7500
7000

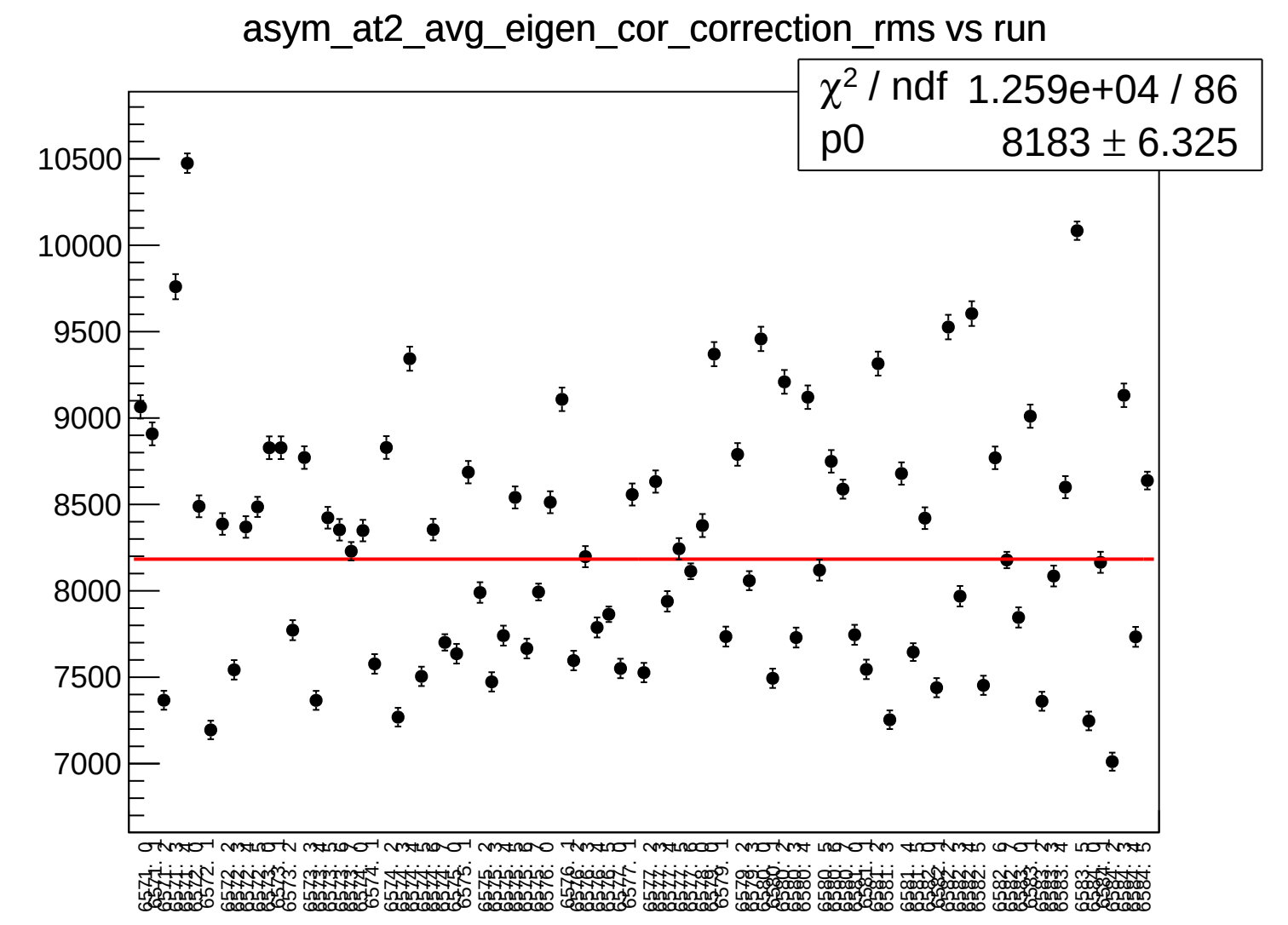

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 87.78 / 86
p0 −672.2 ± 2158
pull
Entries 87
Mean −511
Std Dev 0

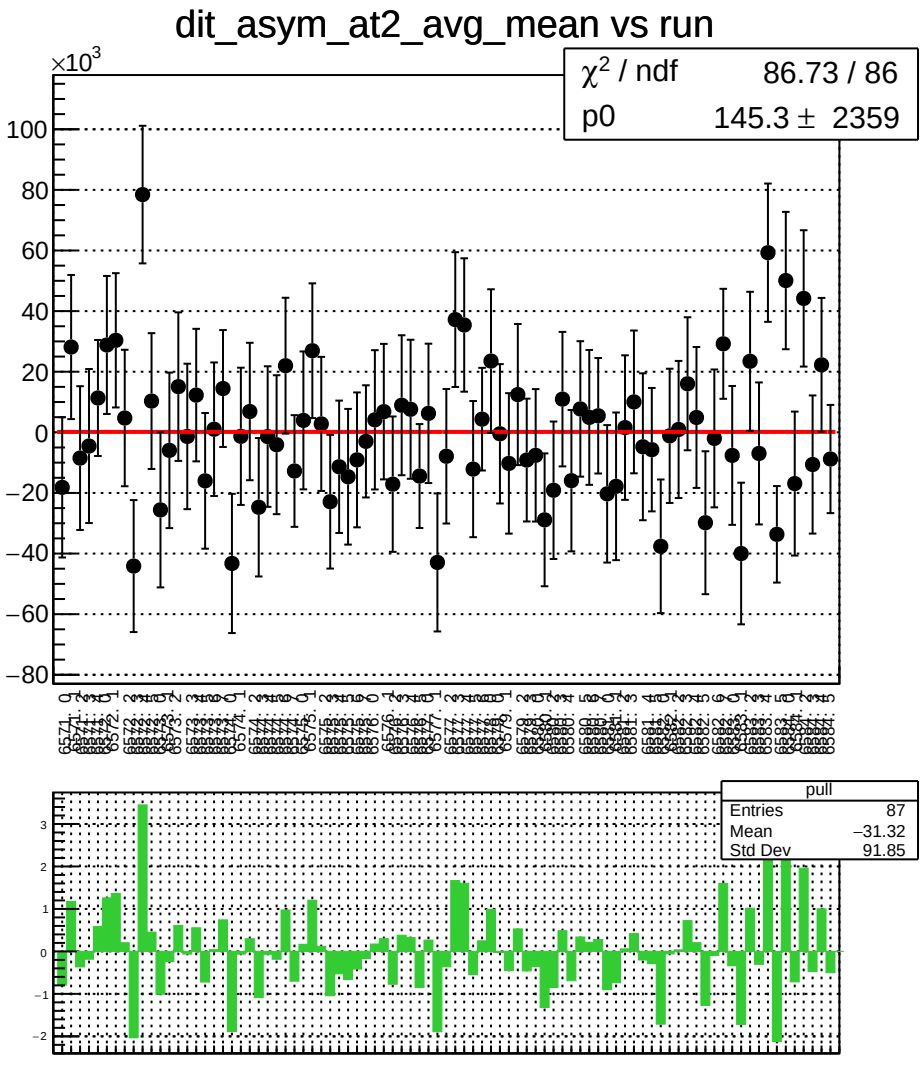

pull1D
Entries 87
Mean 0.003215
Std Dev 1.004

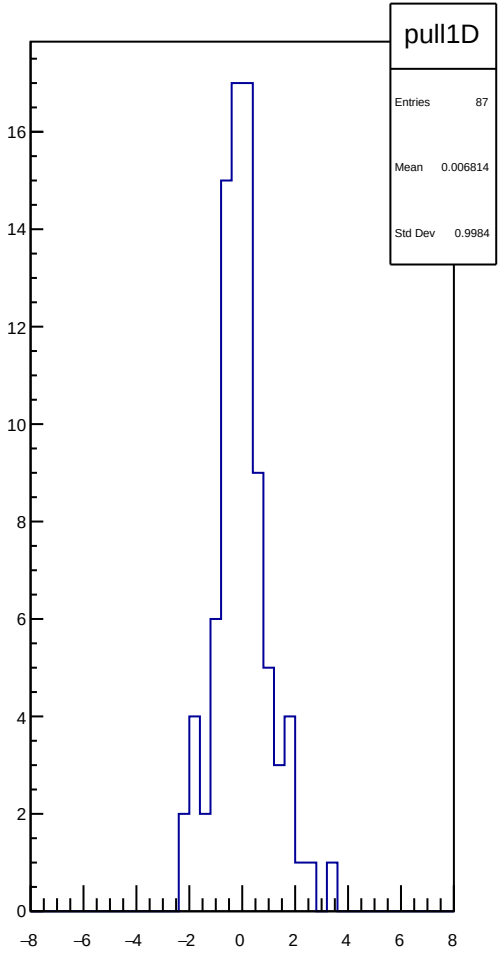

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 361.2 / 86
p0 1982 ± 1.526
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

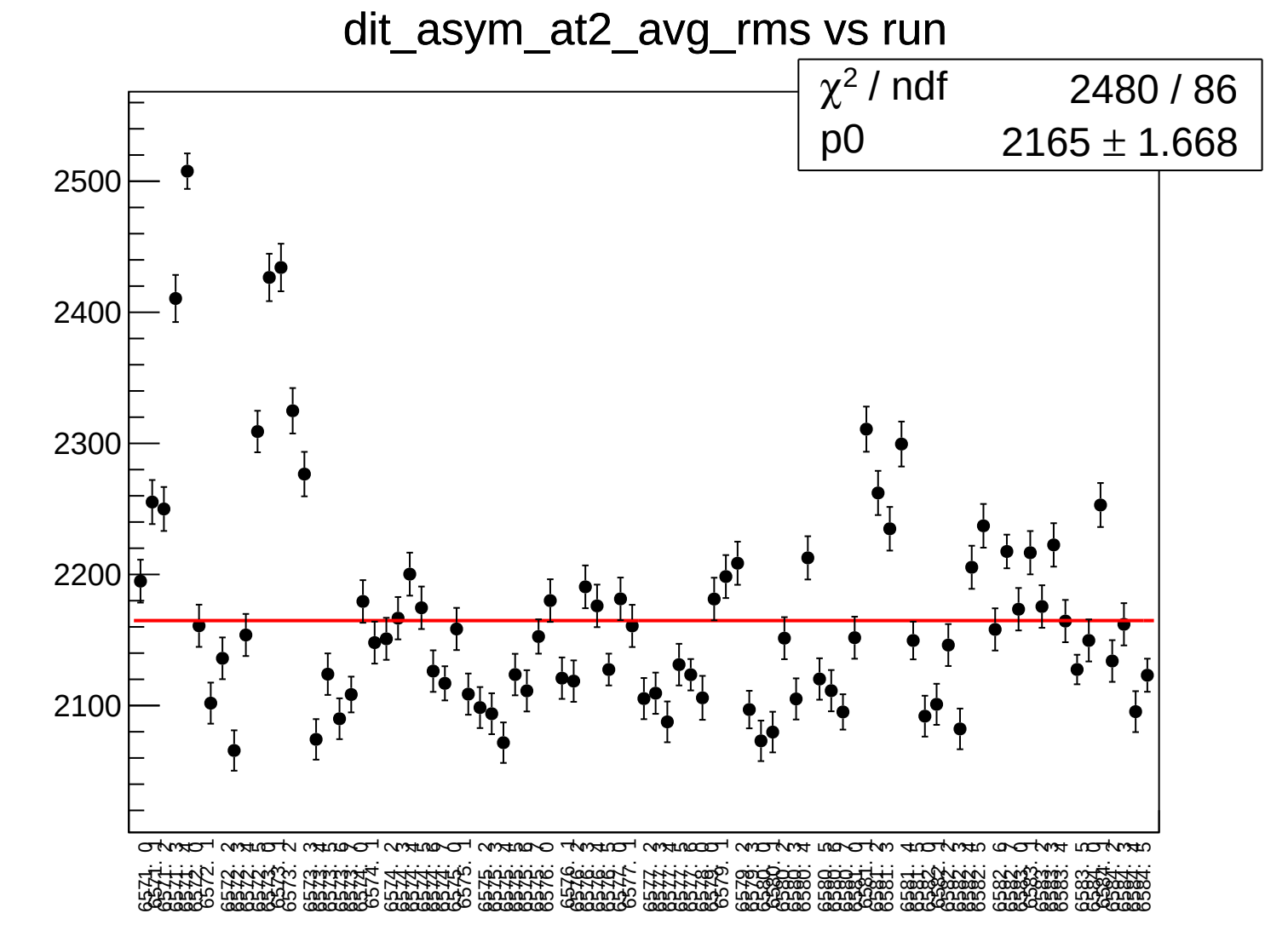

asym_at2_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.67 / 86
p0 6841 ± 8944
×10³
pull
Entries 87
Mean −931.7
Std Dev 0

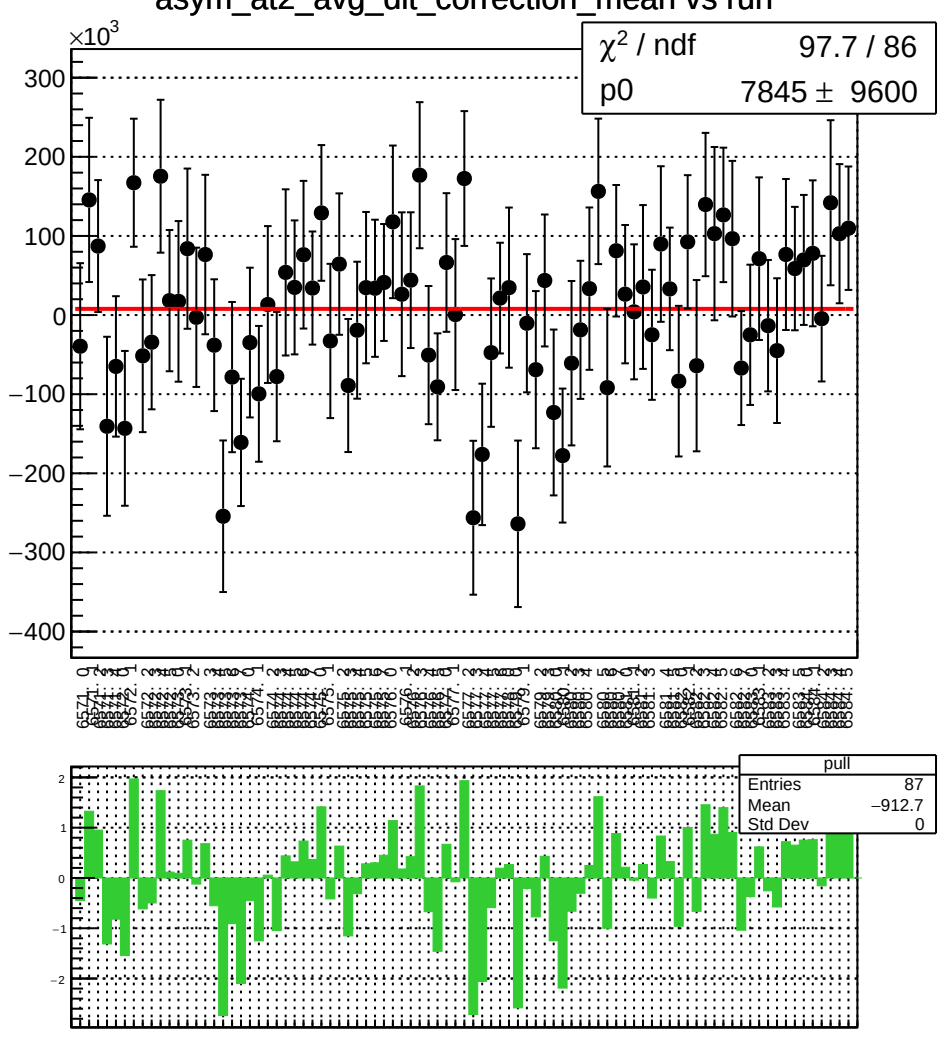

pull1D
Entries 87
Mean −0.004599
Std Dev 1.06

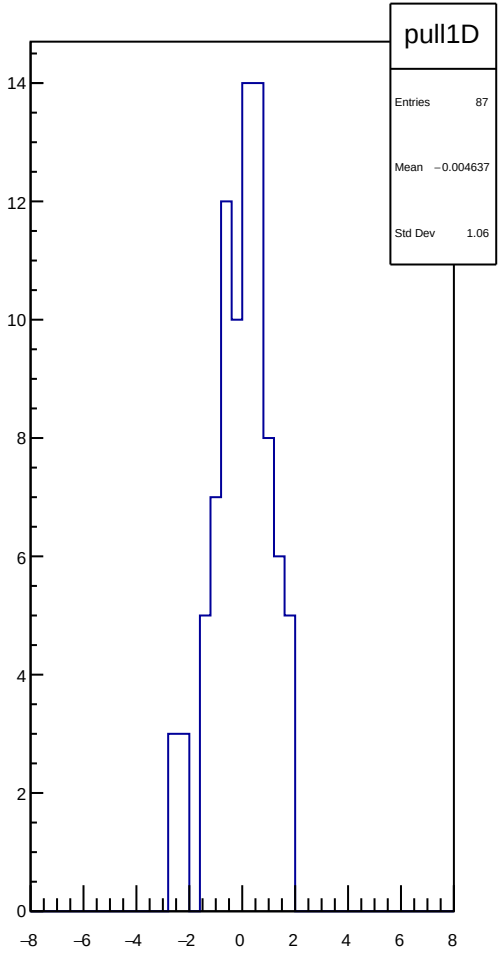

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.259e+04 / 86
p0 8183 ± 6.325
10500
10000
9500
9000
8500
8000
7500
7000

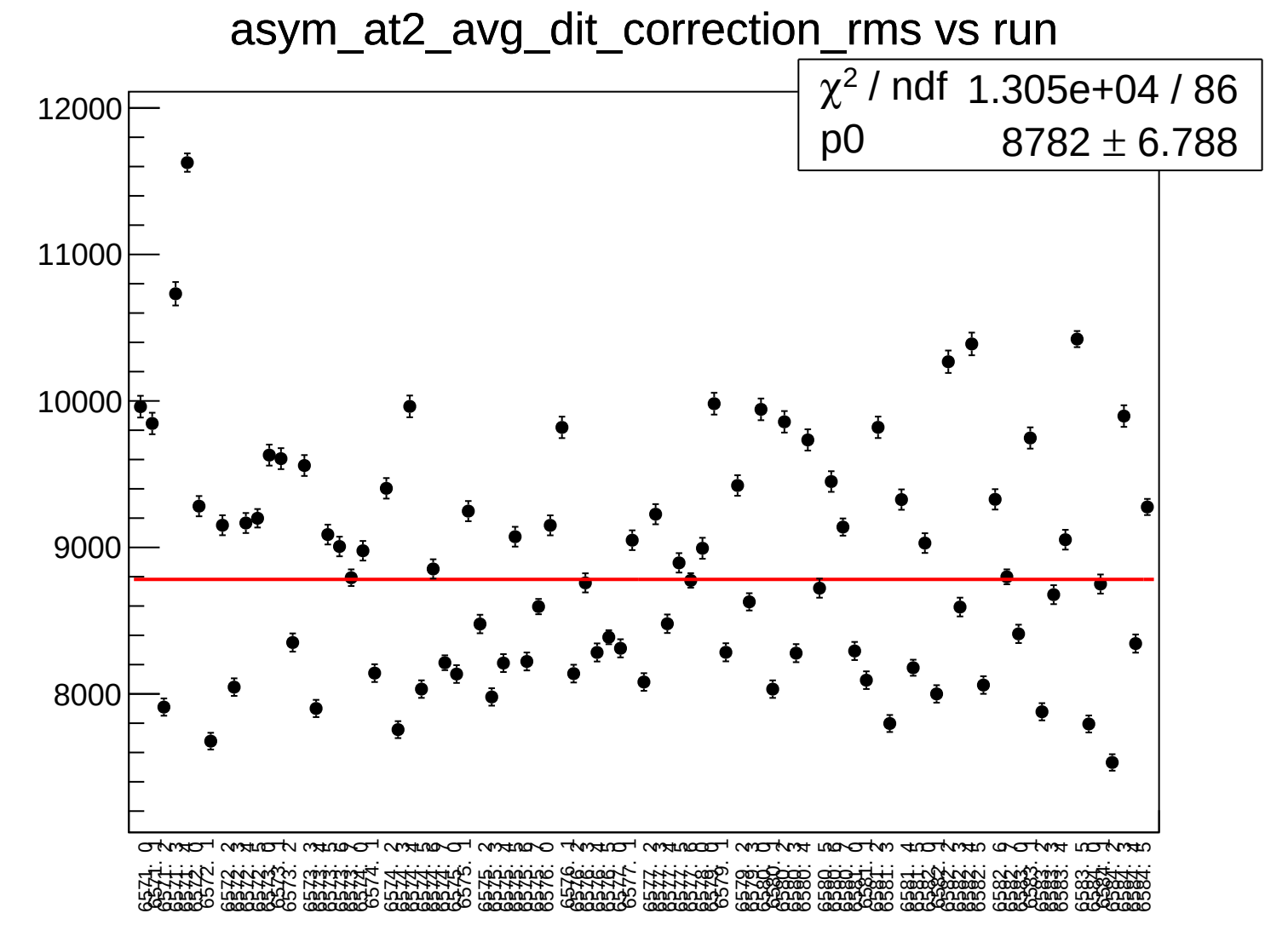

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 86.73 / 86
p0 145.3 ± 2359
pull
Entries 87
Mean −31.32
Std Dev 91.85

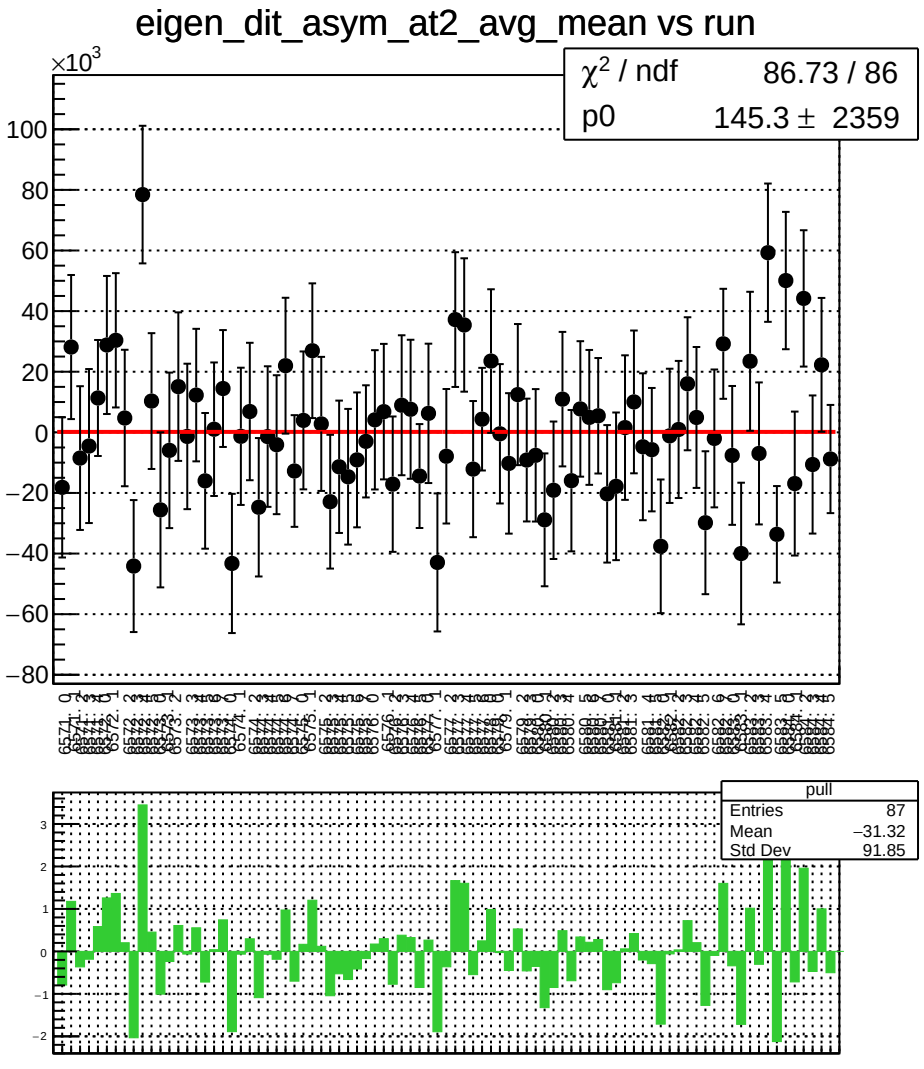

pull1D
Entries 87
Mean 0.006814
Std Dev 0.9984

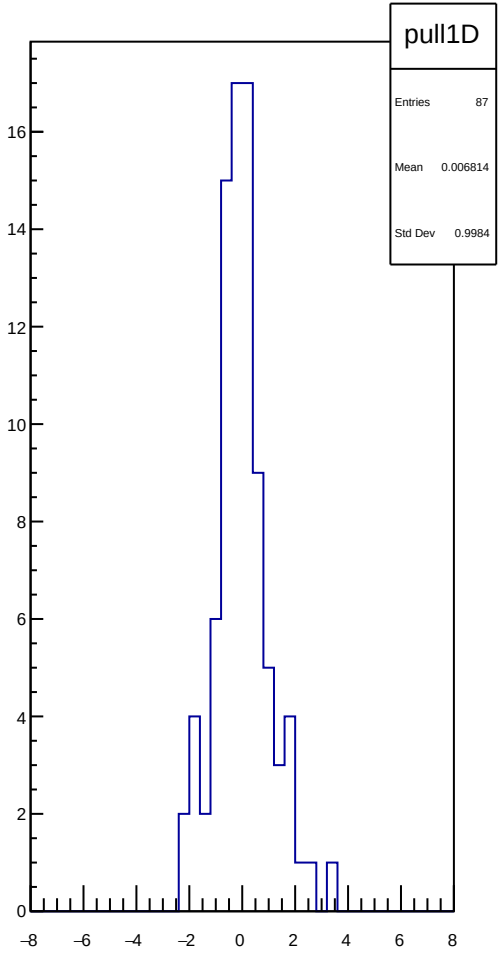

dit_asym_at2_avg_rms vs run
χ^2 / ndf 2480 / 86
p0 2165 ± 1.668
2500
2400
2300
2200
2100

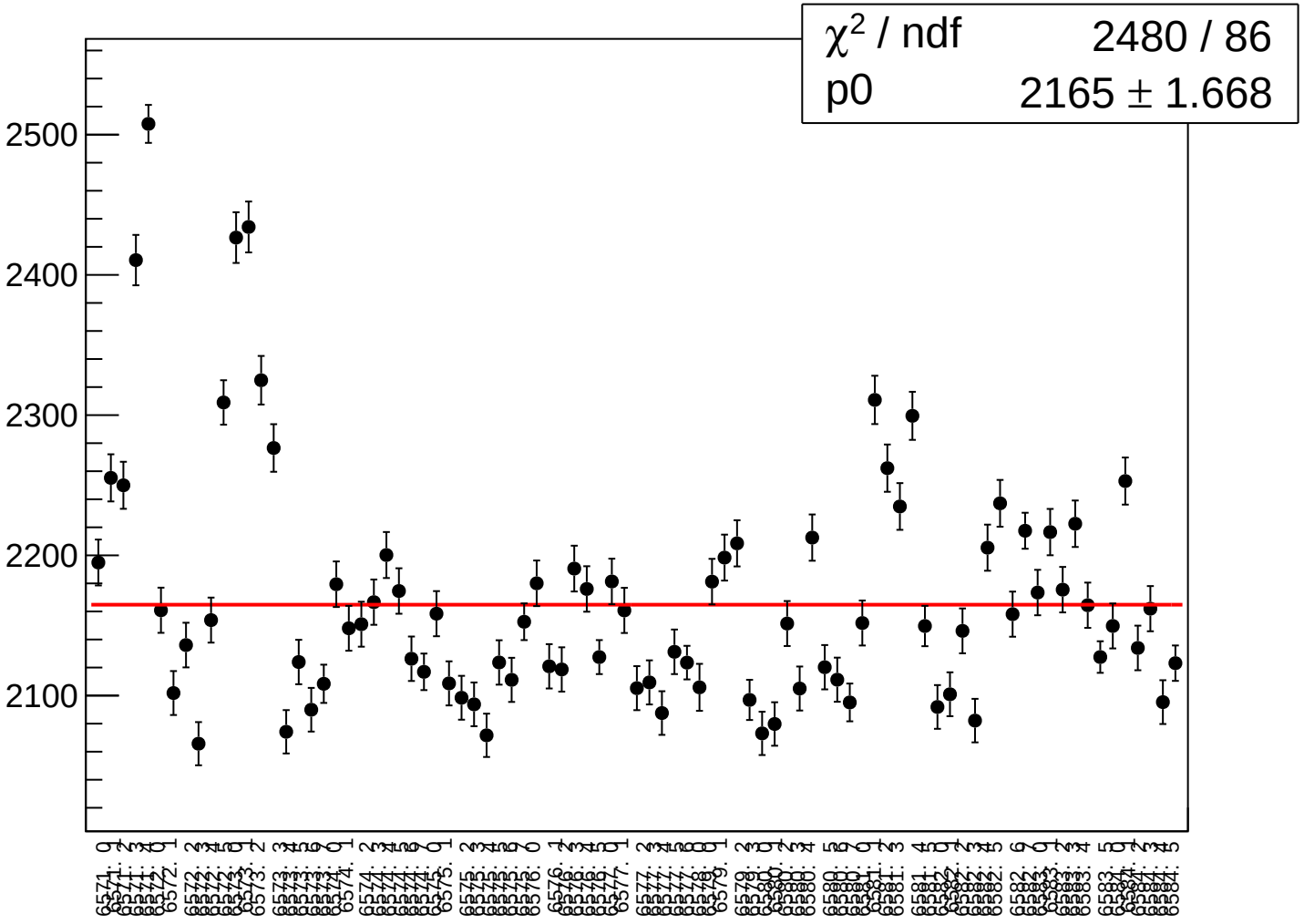

asym_at2_avg_dit_correction_mean vs run
χ² / ndf 97.7 / 86
p0 7845 ± 9600
×10³
pull
Entries 87
Mean −912.7
Std Dev 0

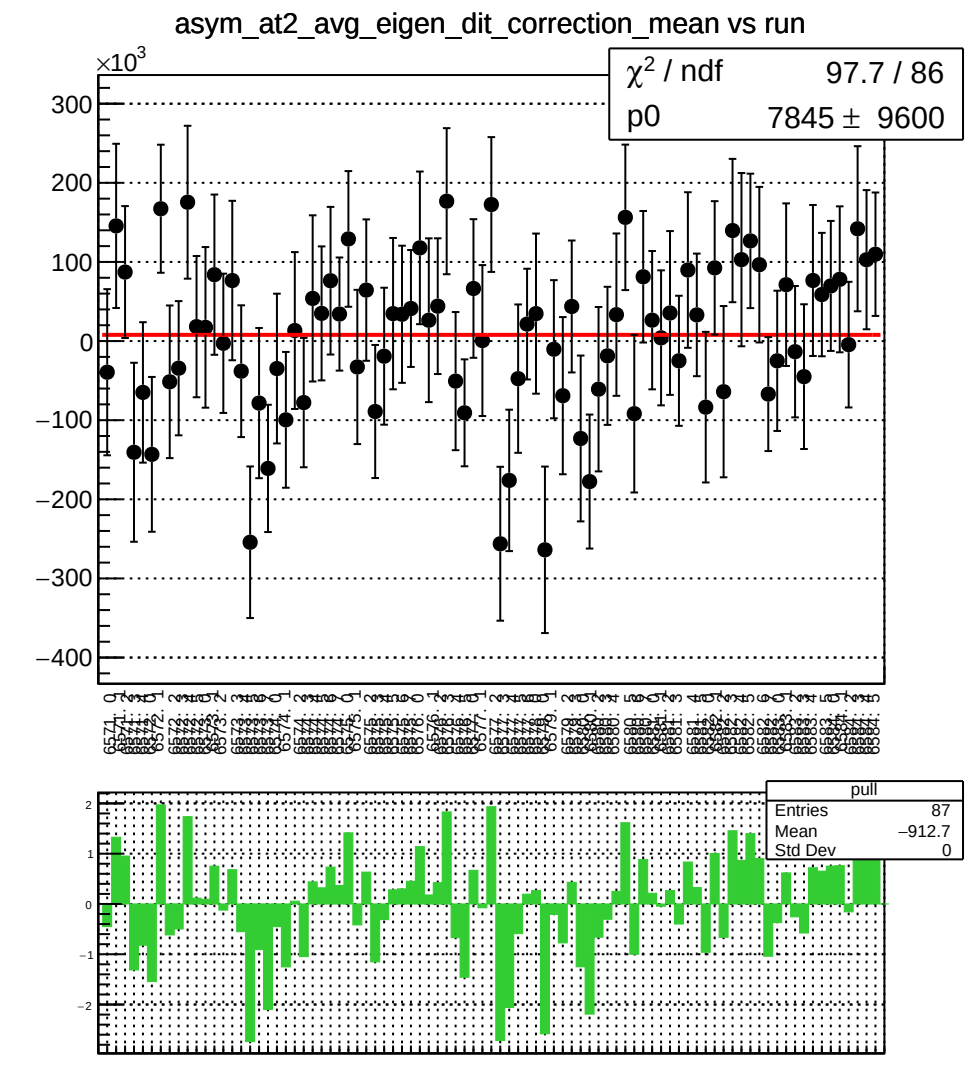

pull1D
Entries 87
Mean −0.004637
Std Dev 1.06

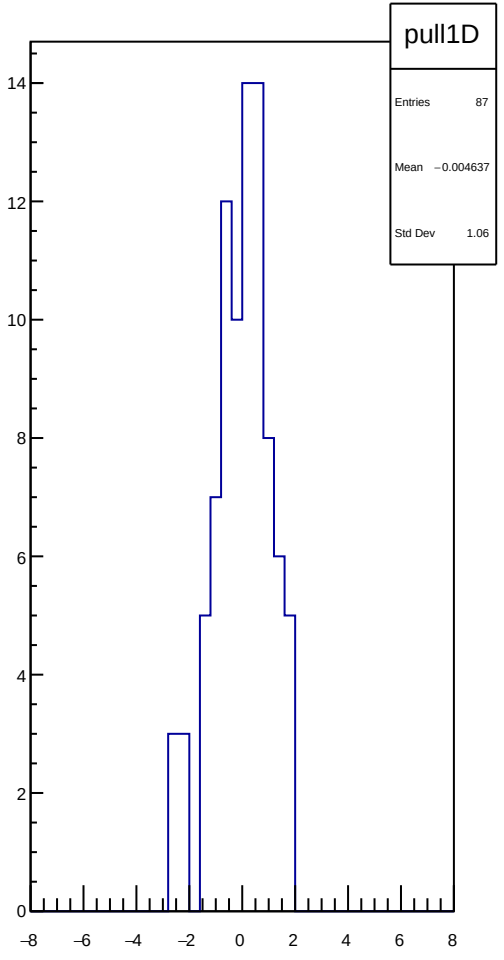

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.305e+04 / 86
p0 8782 ± 6.788
12000
11000
10000
9000
8000

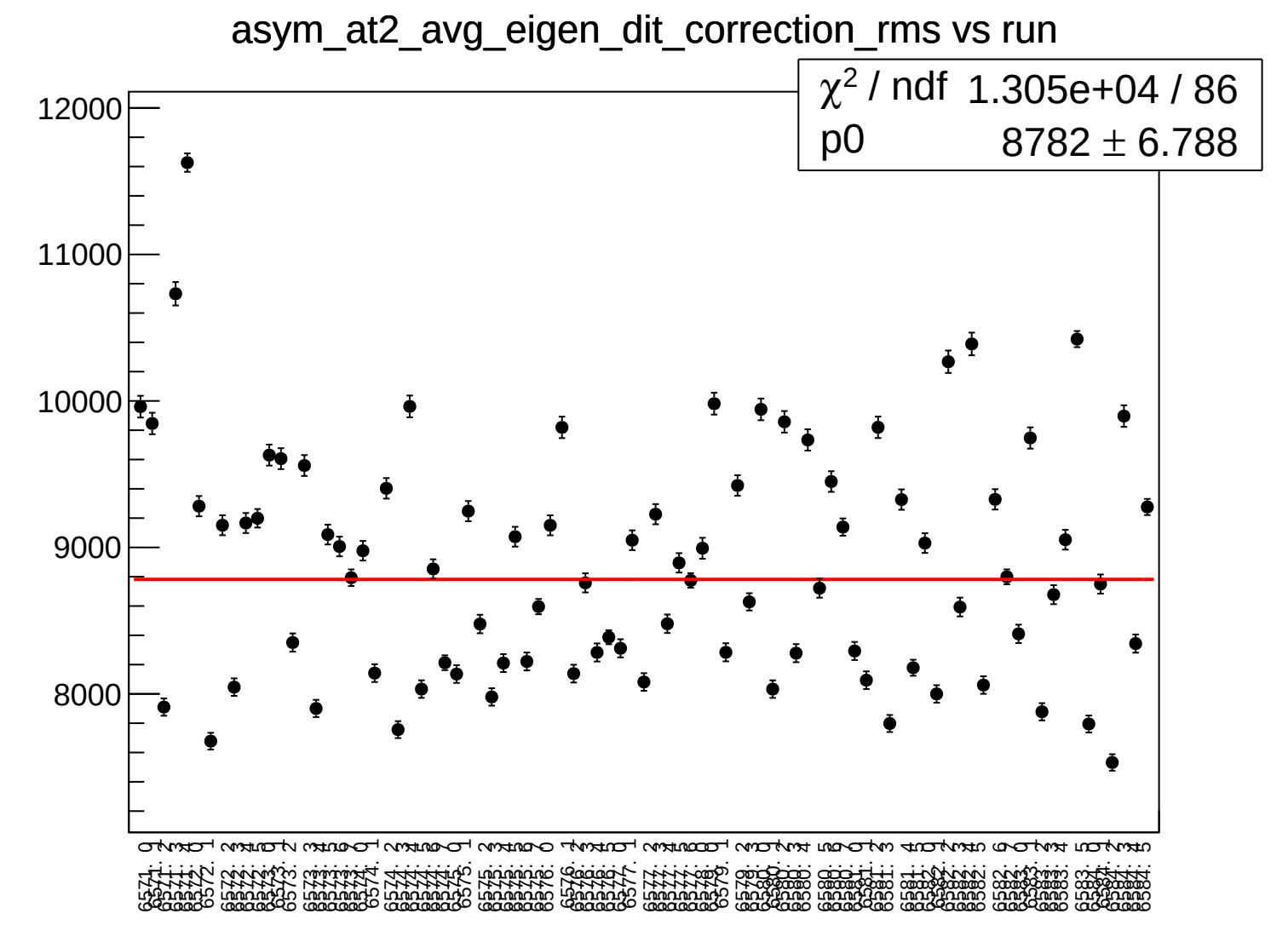

eigen_dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 86.73 / 86
p0 145.3 ± 2359
pull
Entries 87
Mean −31.32
Std Dev 91.85

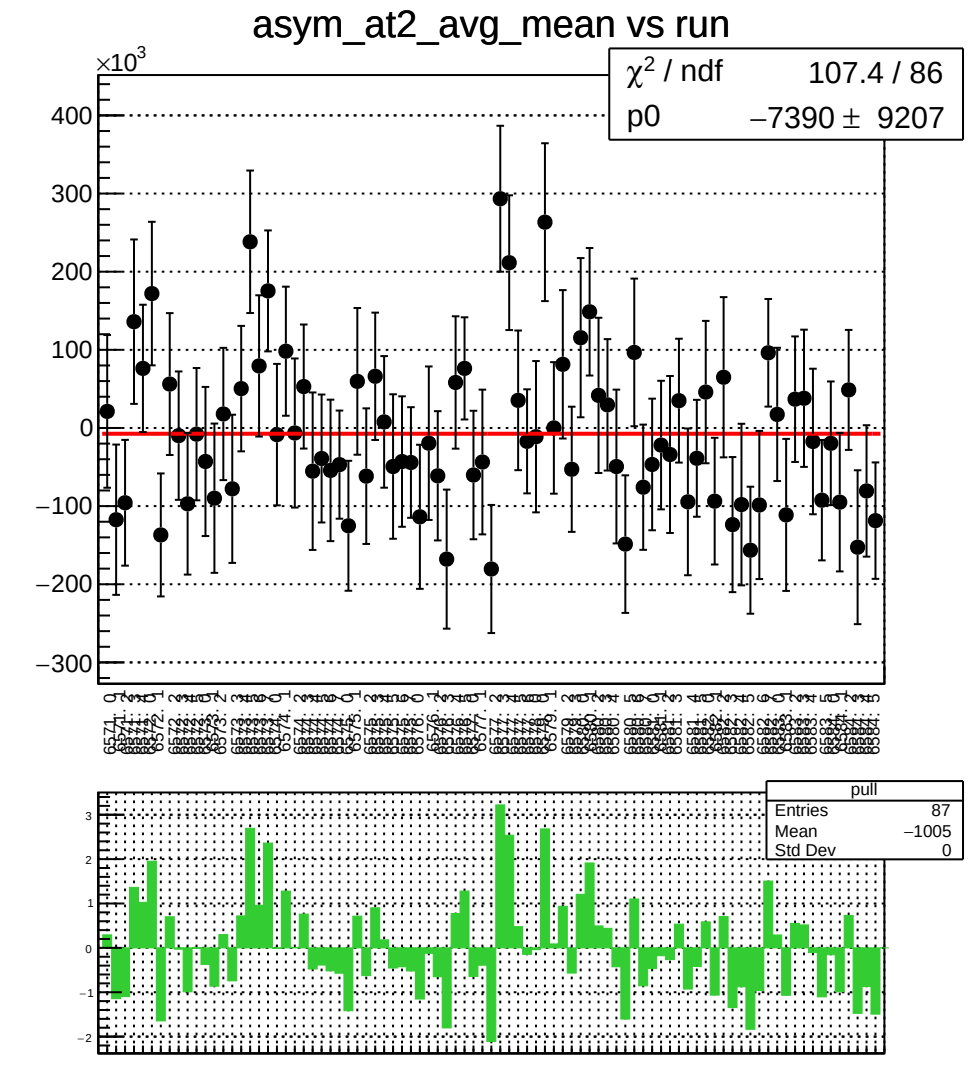

pull1D
Entries 87
Mean 0.006814
Std Dev 0.9984

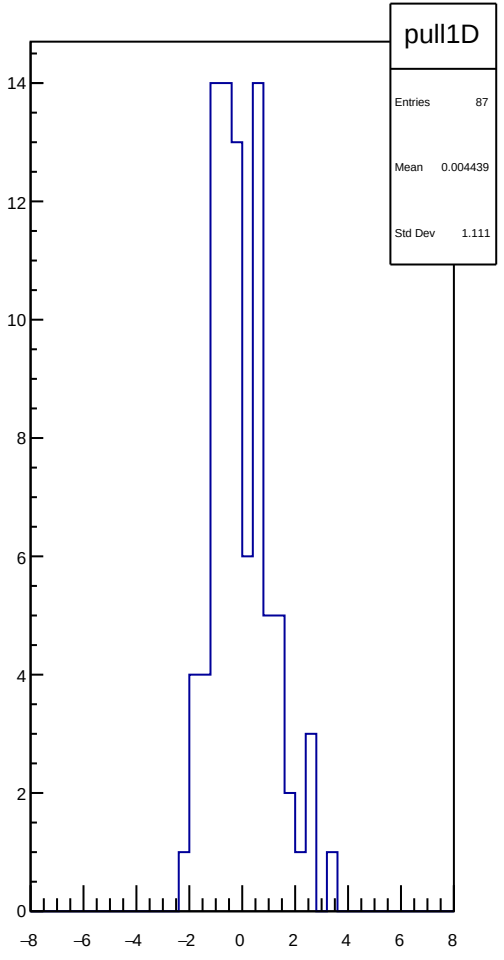

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 2480 / 86
p0 2165 ± 1.668
2500
2400
2300
2200
2100

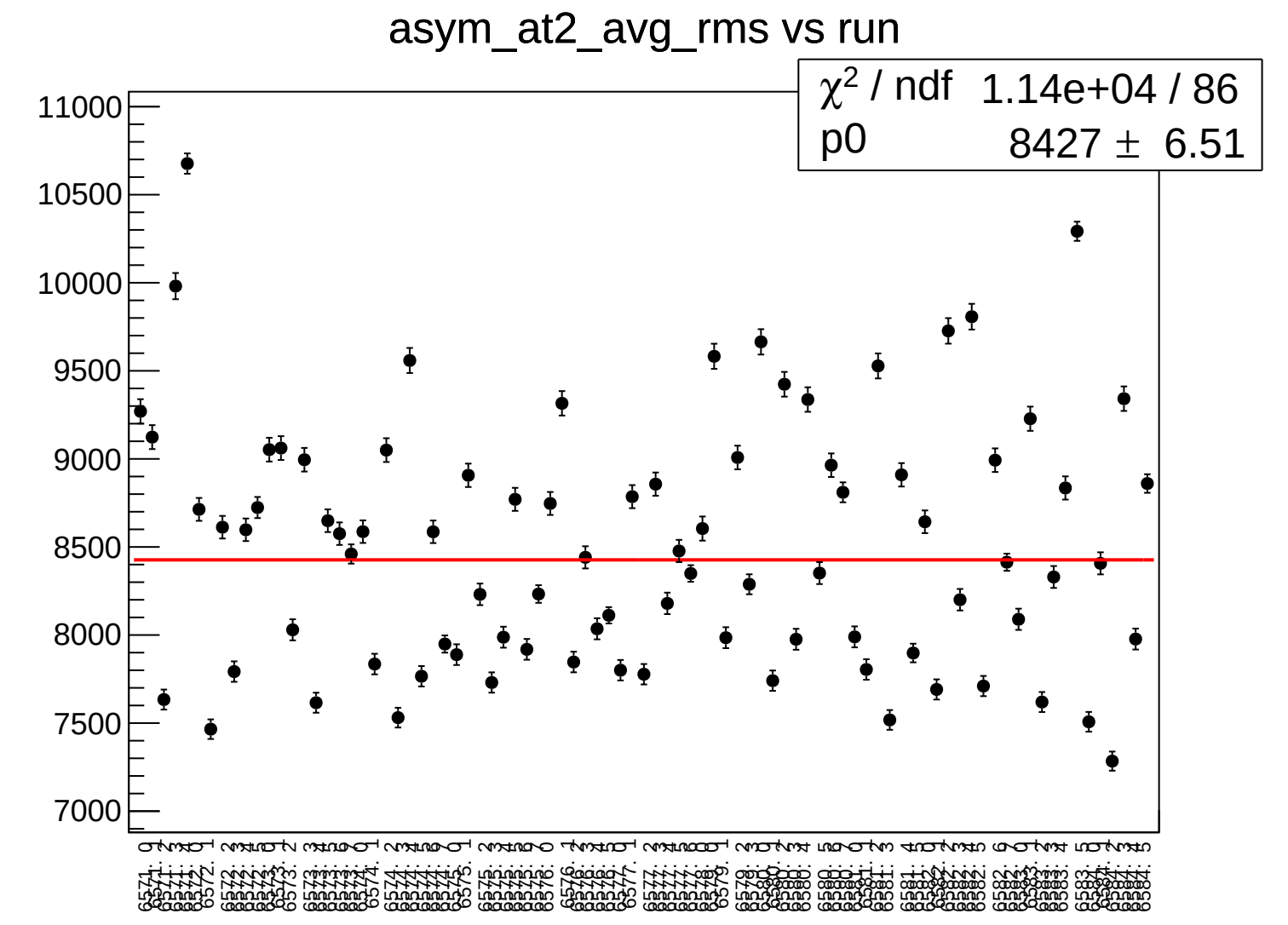

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.7 / 86
p0 7845 ± 9600
300
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean −912.7
Std Dev 0
2
1
0
−1
−2

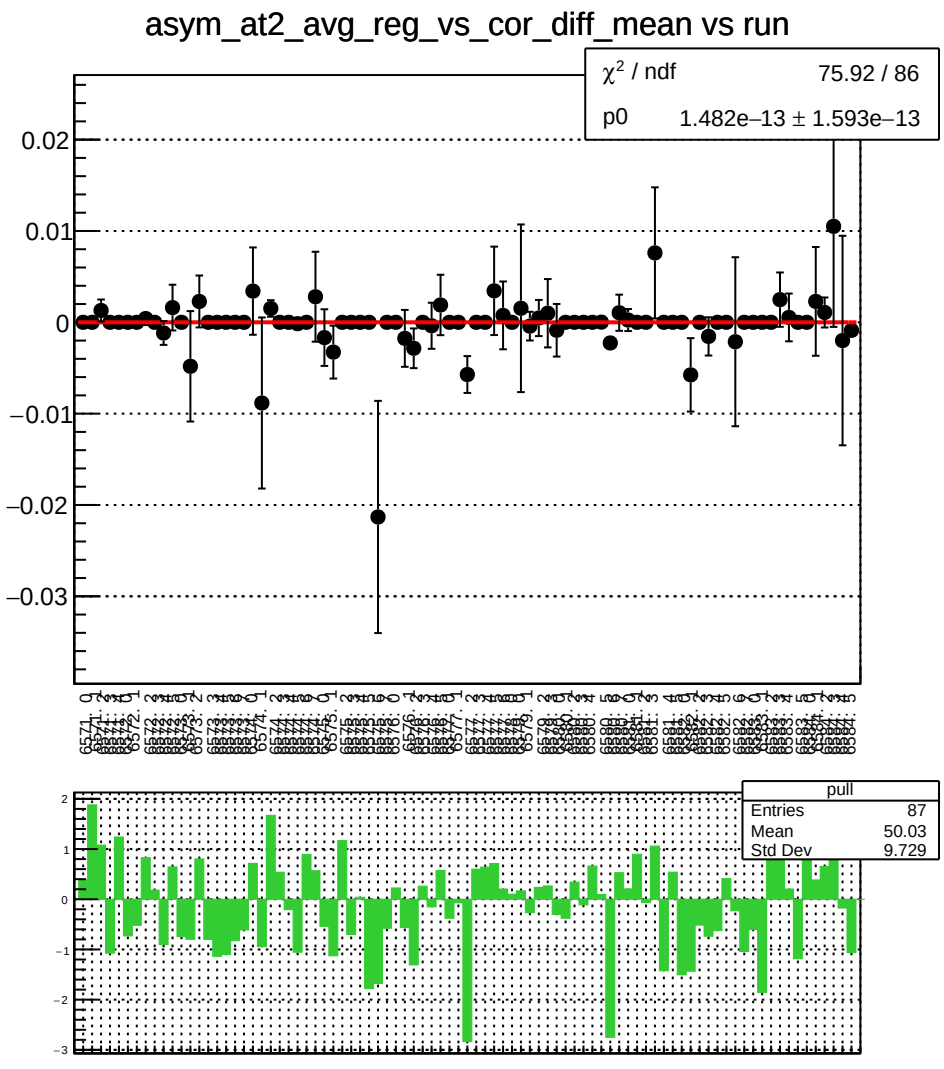

pull1D
Entries 87
Mean −0.004637
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

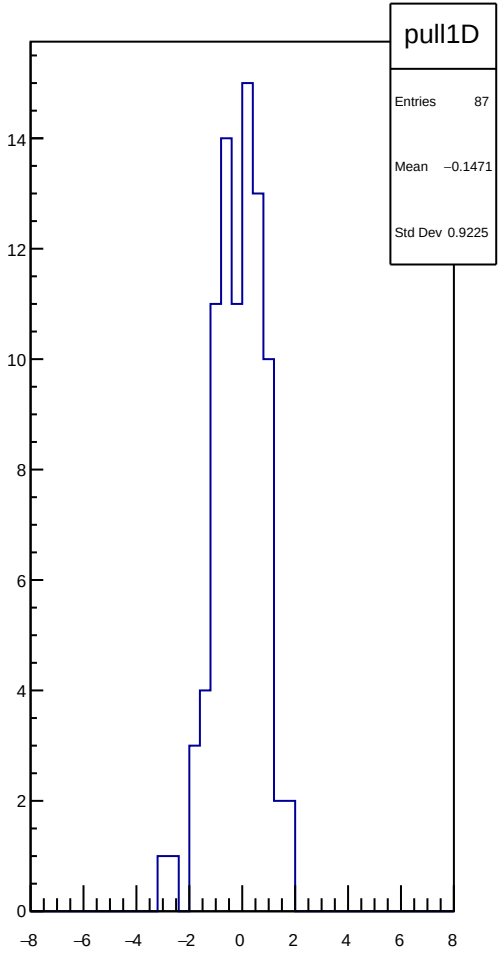

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.305e+04 / 86
p0 8782 ± 6.788
12000
11000
10000
9000
8000

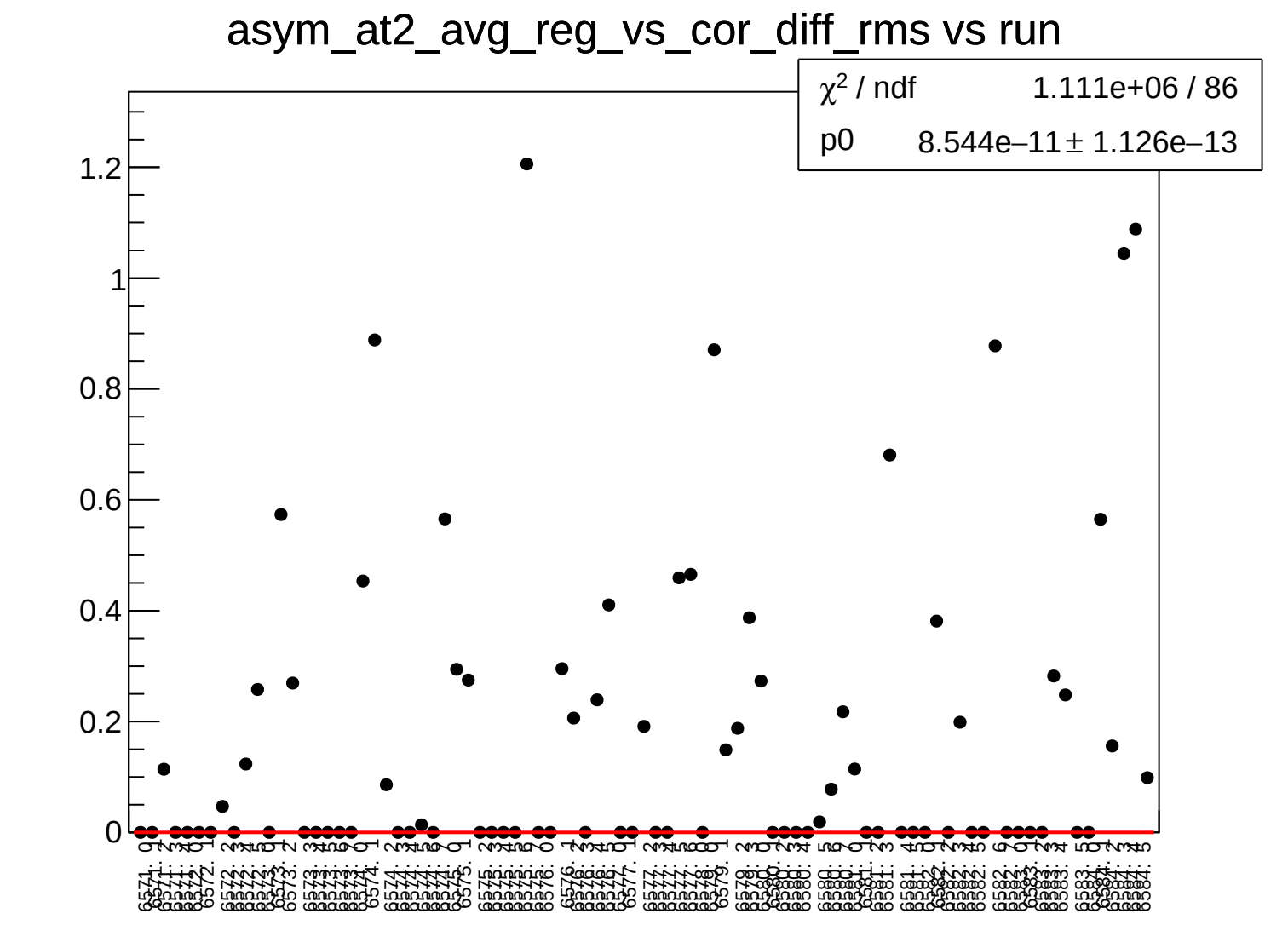

asym_at2_avg_mean vs run
χ² / ndf 107.4 / 86
p0 −7390 ± 9207
×10³
pull
Entries 87
Mean −1005
Std Dev 0

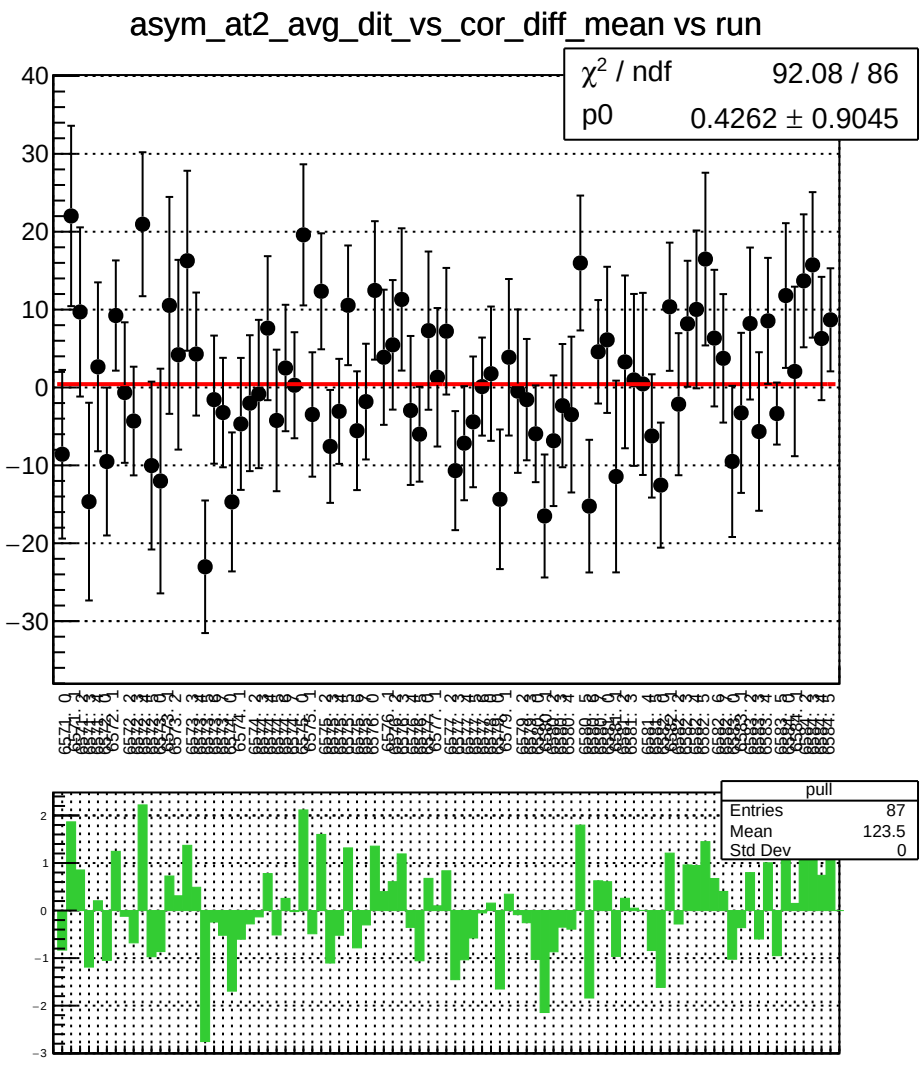

pull1D
Entries 87
Mean 0.004439
Std Dev 1.111

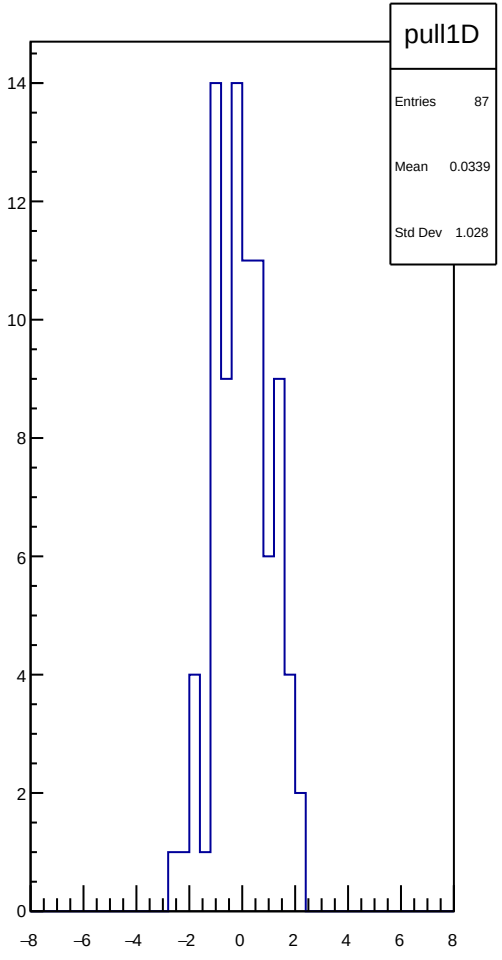

asym_at2_avg_rms vs run
χ² / ndf 1.14e+04 / 86
p0 8427 ± 6.51
11000
10500
10000
9500
9000
8500
8000
7500
7000

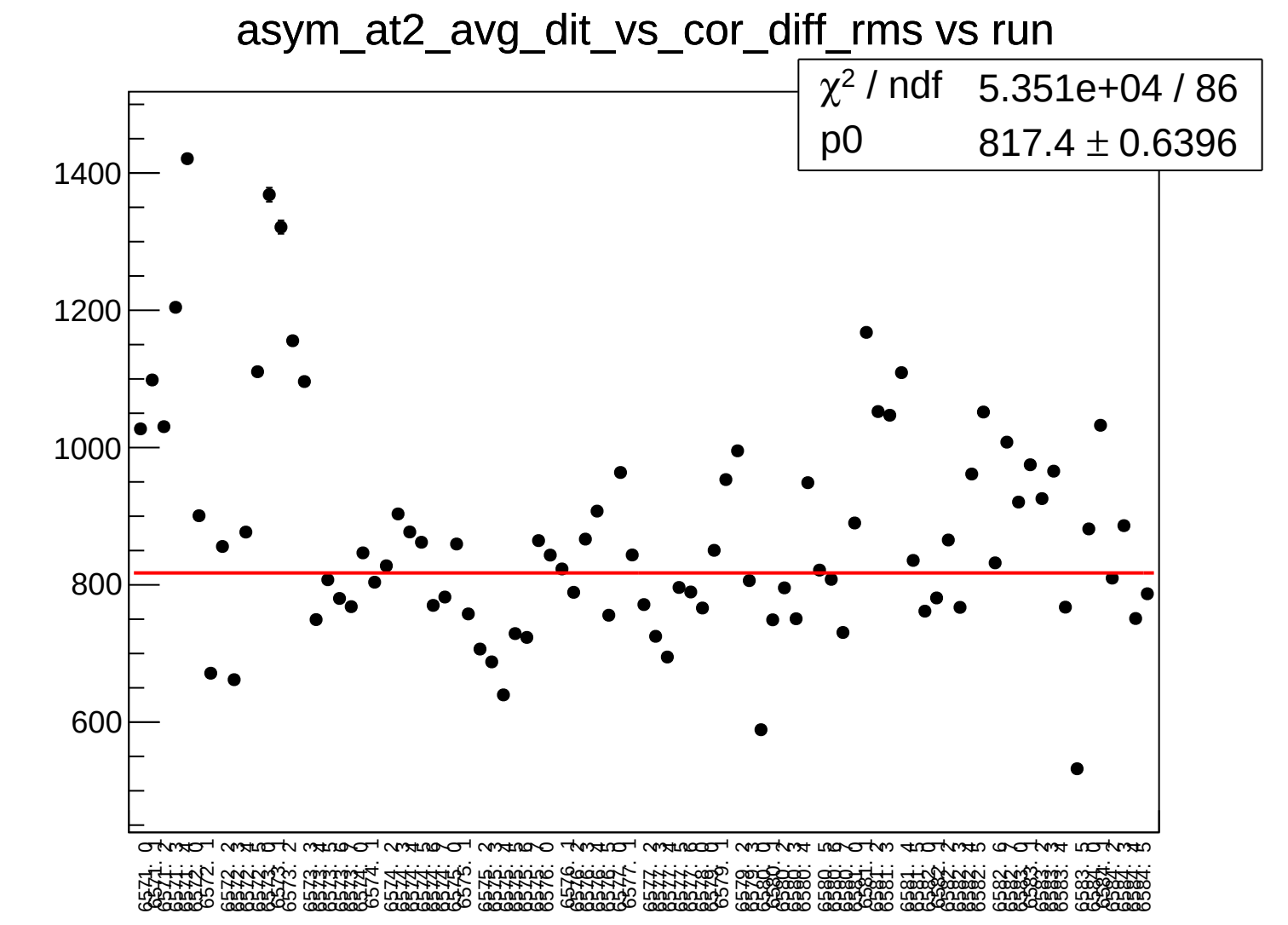

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.92 / 86
p0 1.482e−13 ± 1.593e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 50.03
Std Dev 9.729
2
1
0
−1
−2
−3

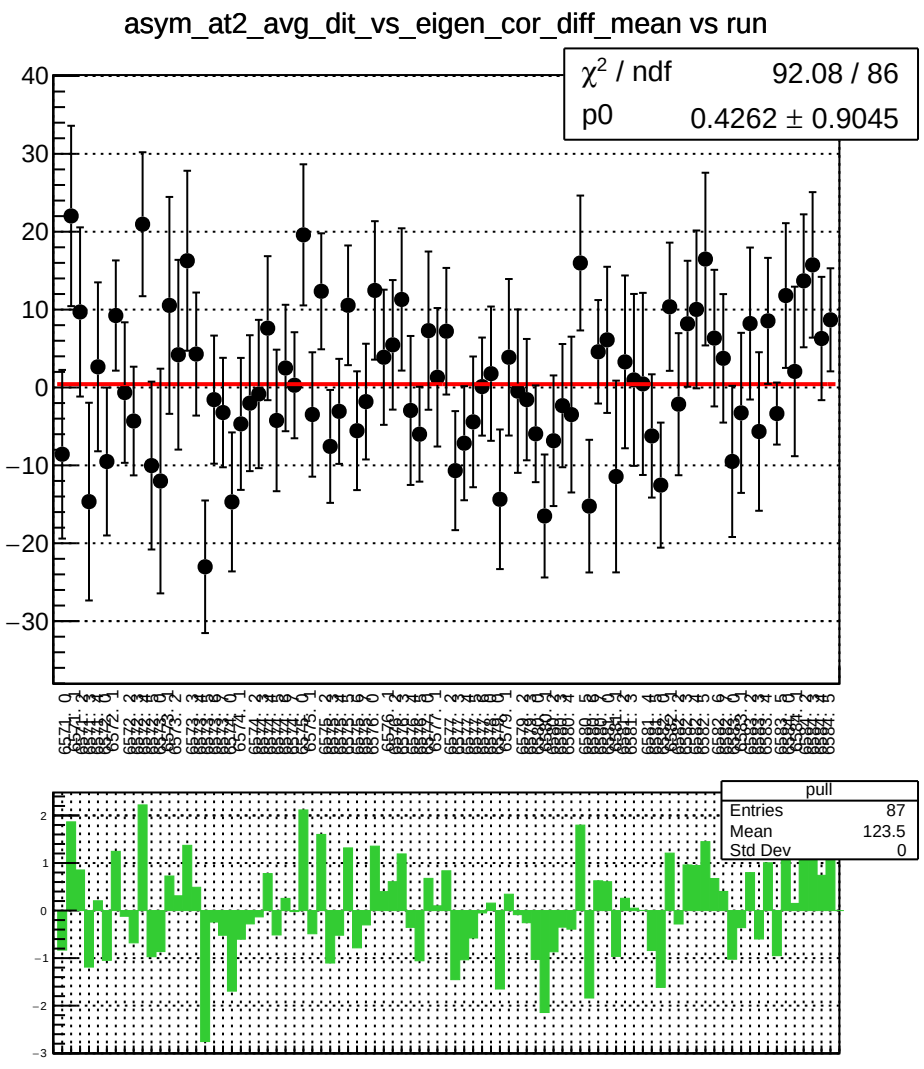

pull1D
Entries 87
Mean −0.1471
Std Dev 0.9225
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

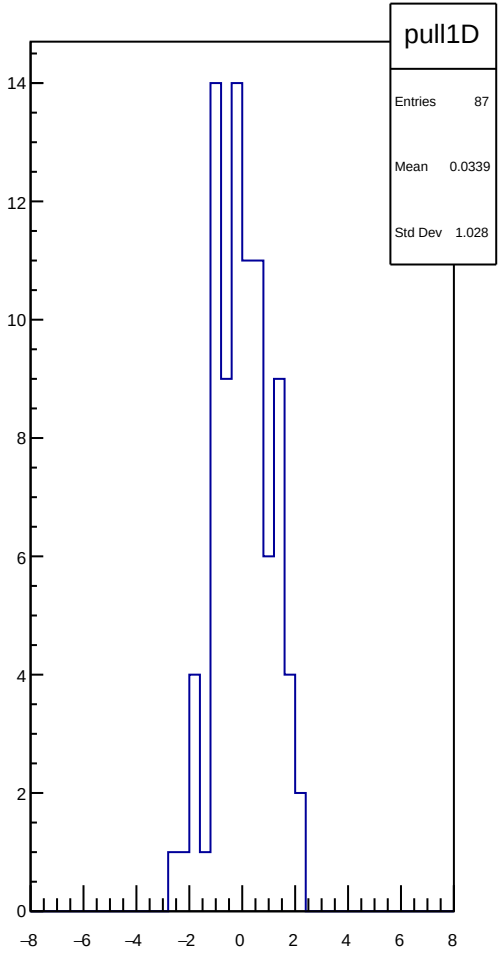

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.111e+06 / 86
p0 8.544e−11 ± 1.126e−13
1.2
1
0.8
0.6
0.4
0.2
0

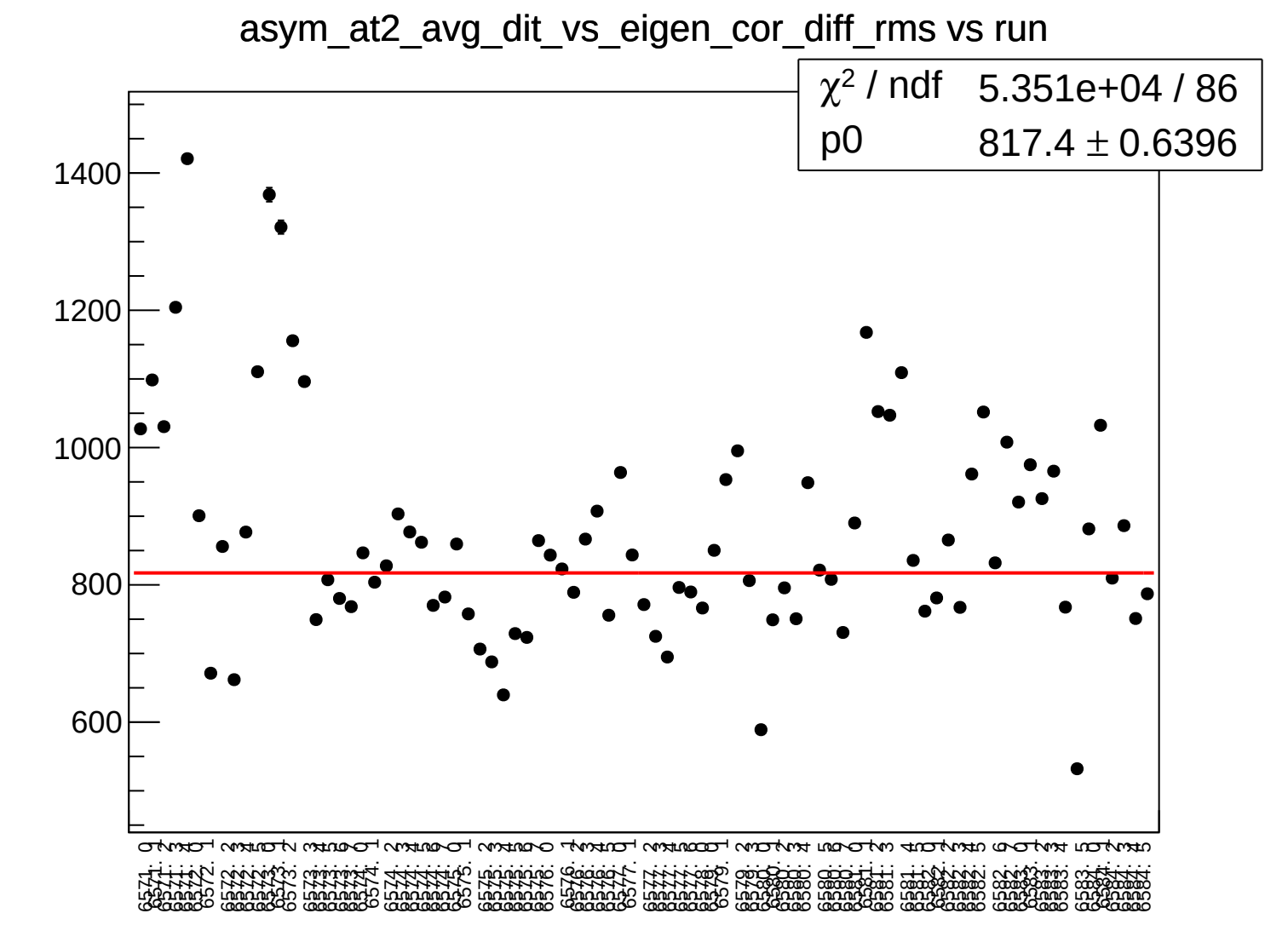

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.08 / 86
p0 0.4262 ± 0.9045
pull
Entries 87
Mean 123.5
Std Dev 0

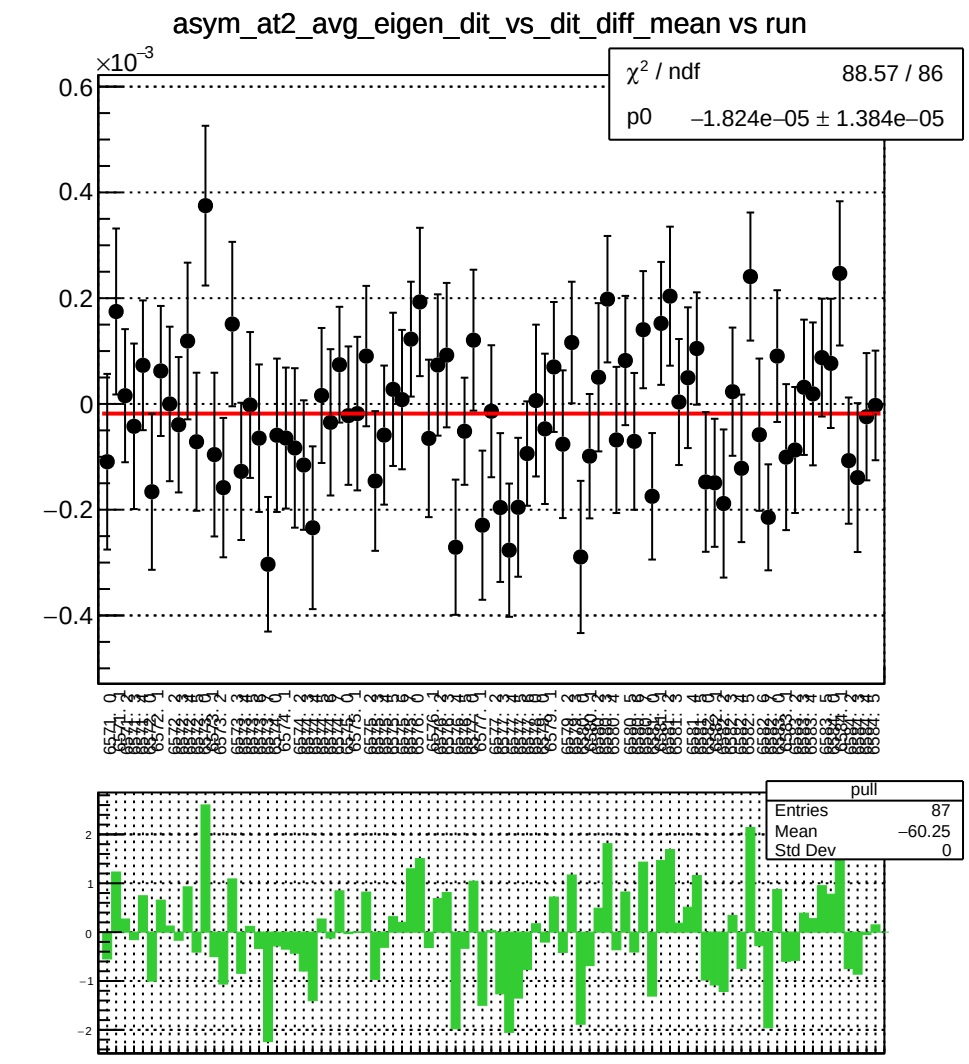

pull1D
Entries 87
Mean 0.0339
Std Dev 1.028

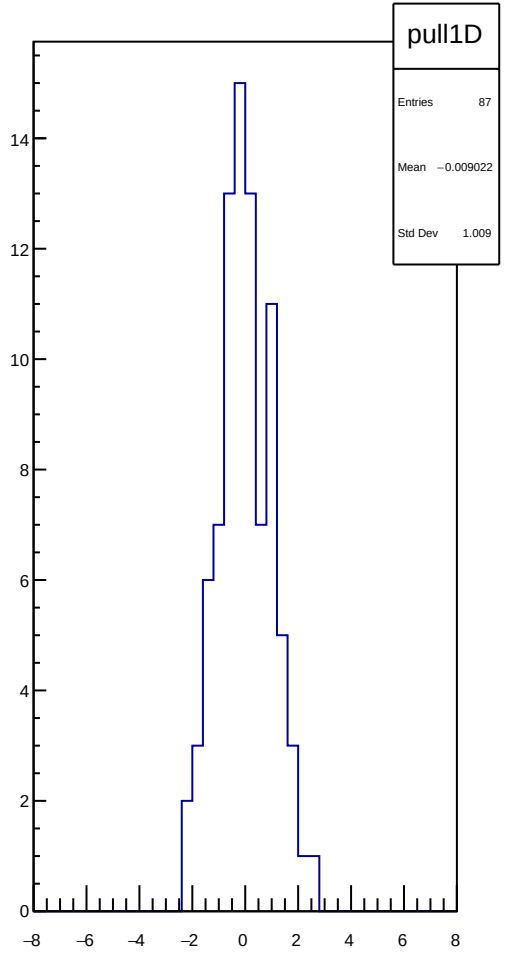

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.351e+04 / 86
p0 817.4 ± 0.6396
1400
1200
1000
800
600

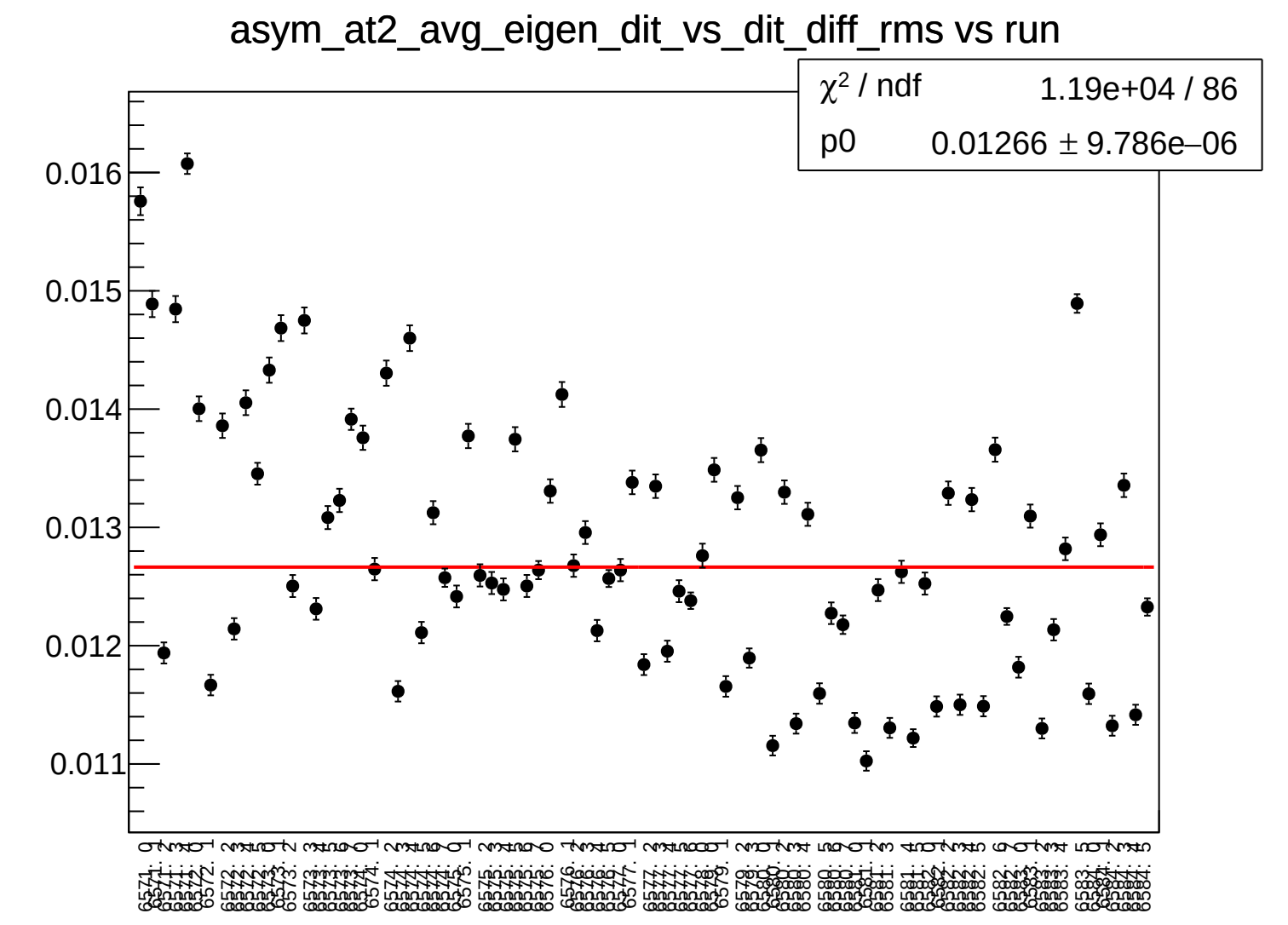

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.08 / 86
p0 0.4262 ± 0.9045
pull
Entries 87
Mean 123.5
Std Dev 0

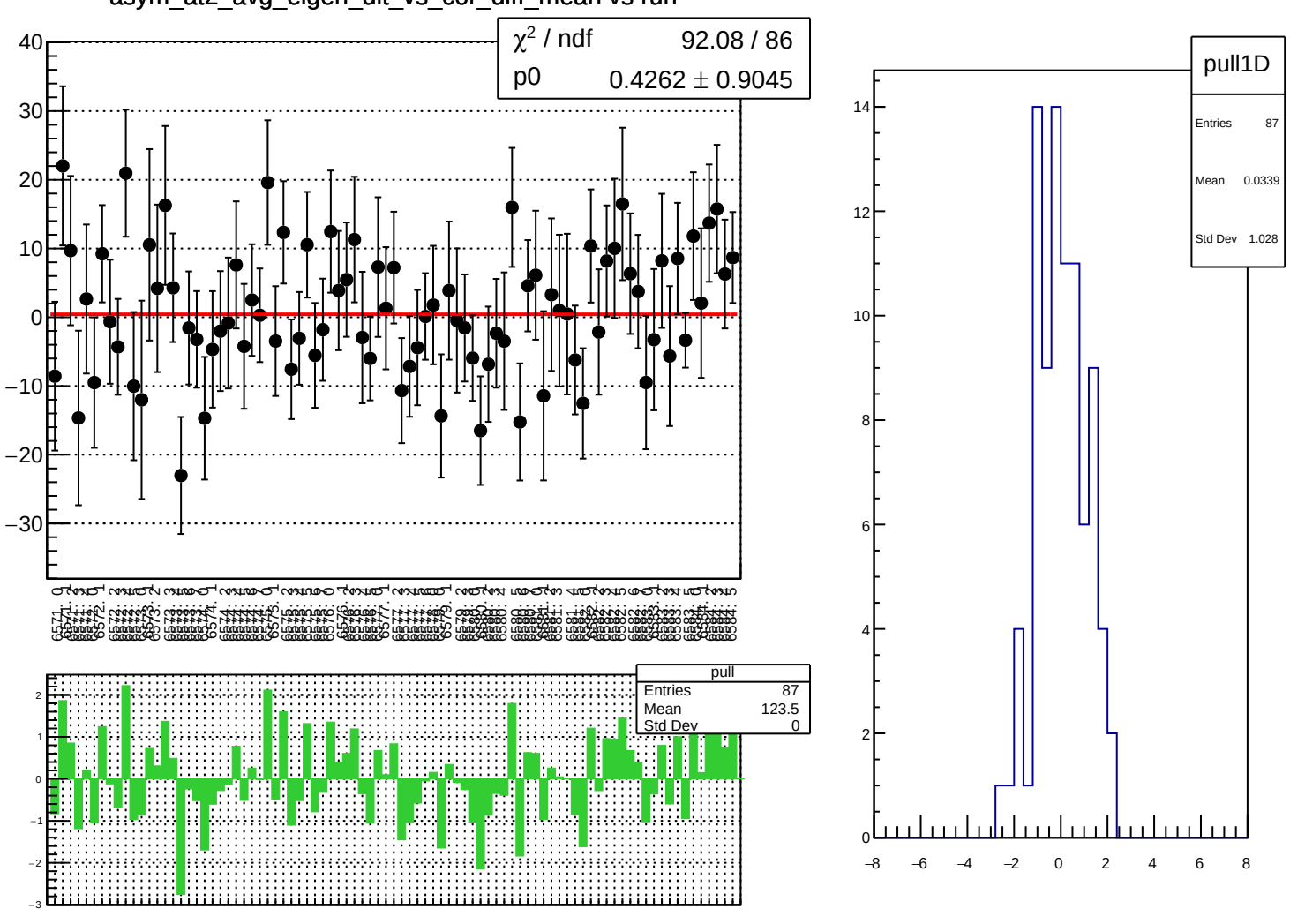

pull1D
Entries 87
Mean 0.0339
Std Dev 1.028

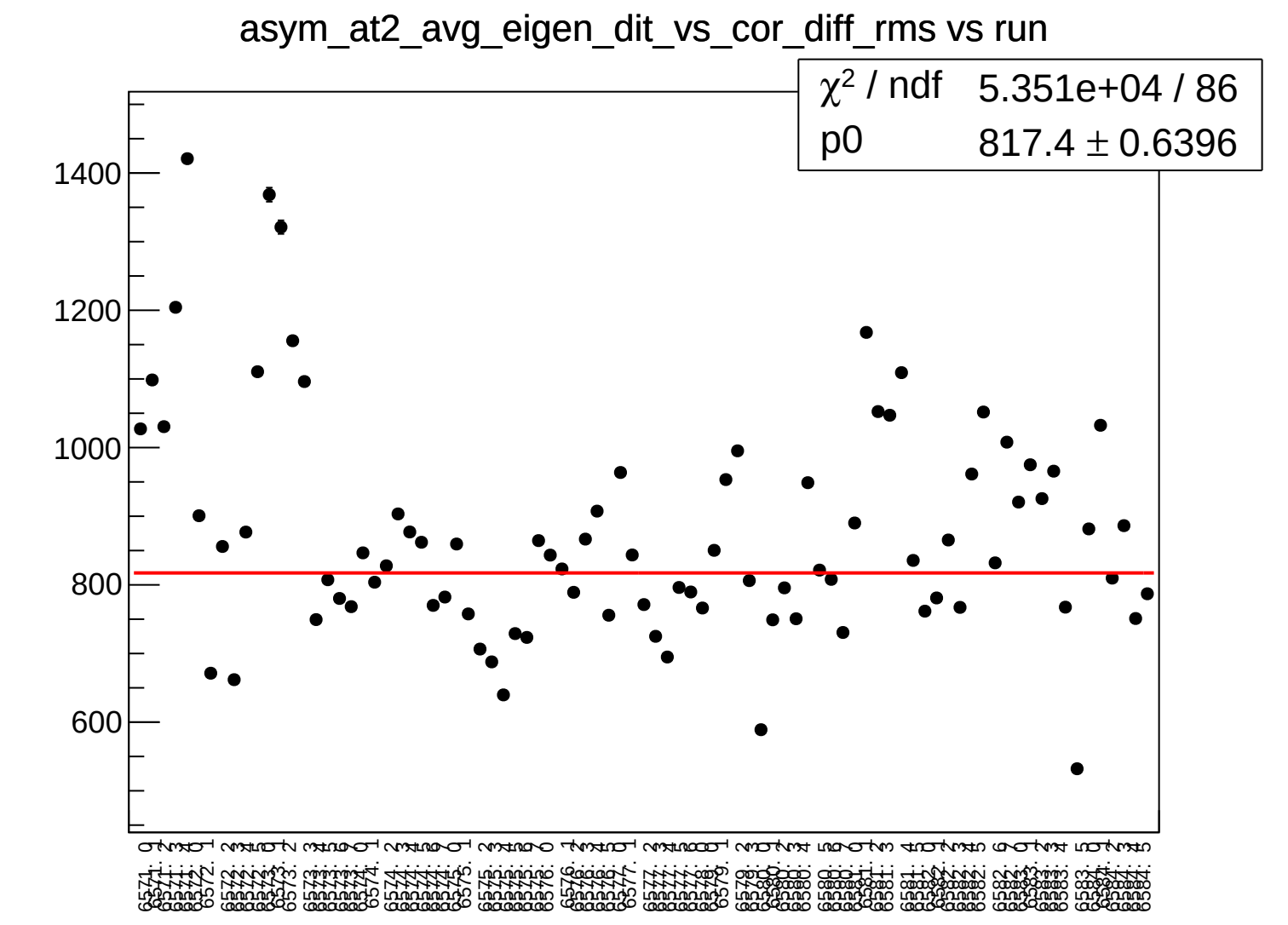

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.351e+04 / 86
p0 817.4 ± 0.6396
1400
1200
1000
800
600

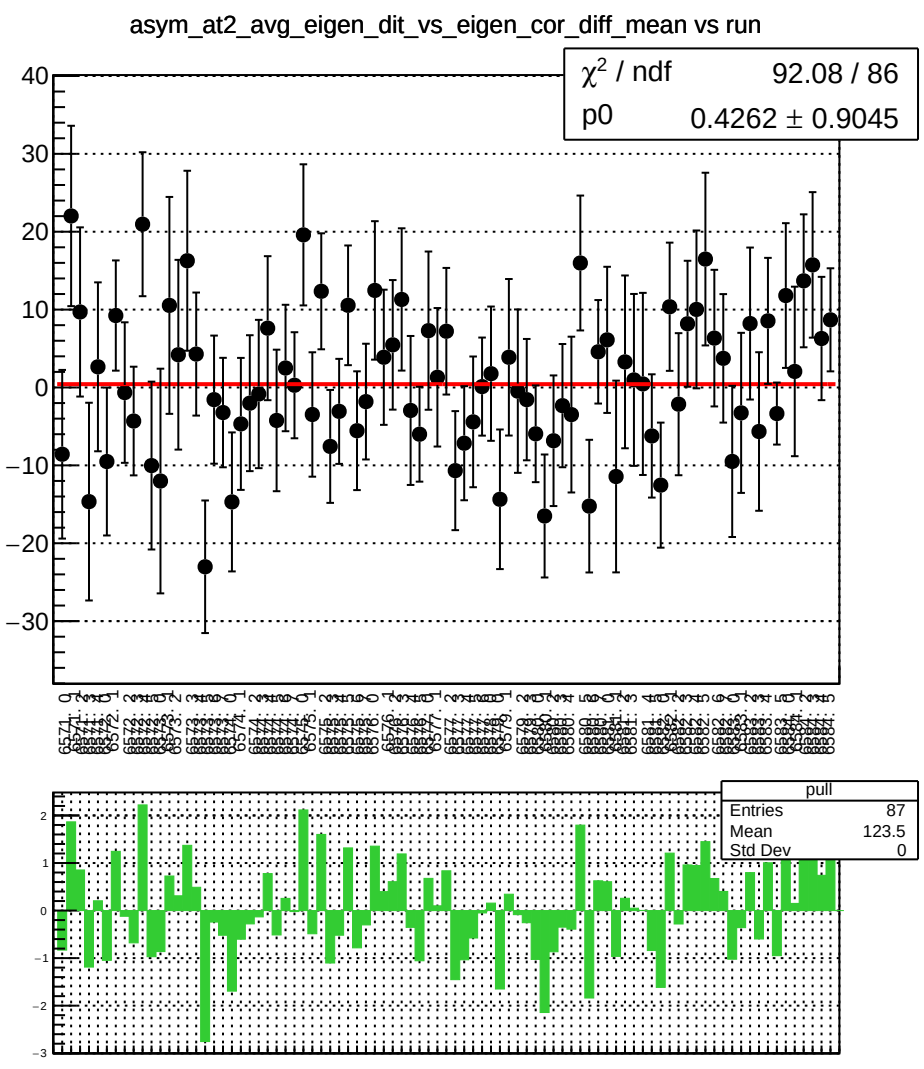

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.57 / 86
p0 −1.824e−05 ± 1.384e−05
pull
Entries 87
Mean −60.25
Std Dev 0

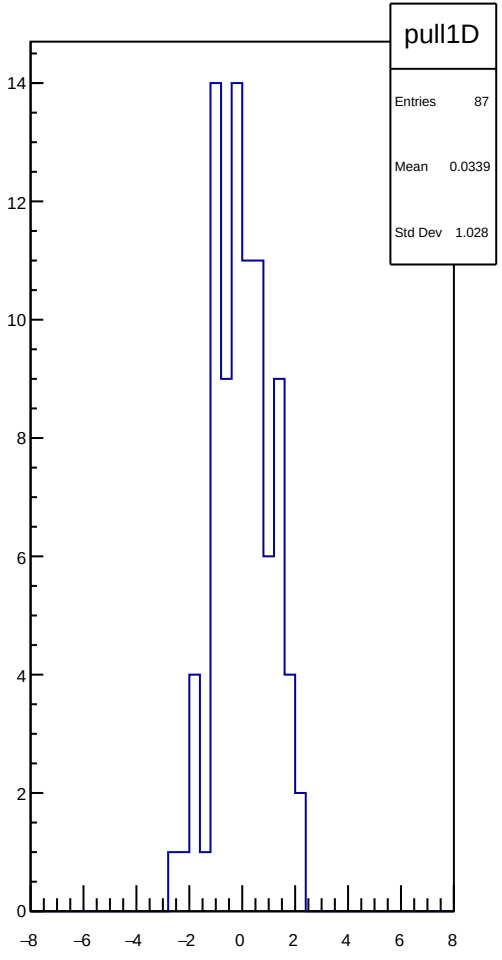

pull1D
Entries 87
Mean −0.009022
Std Dev 1.009

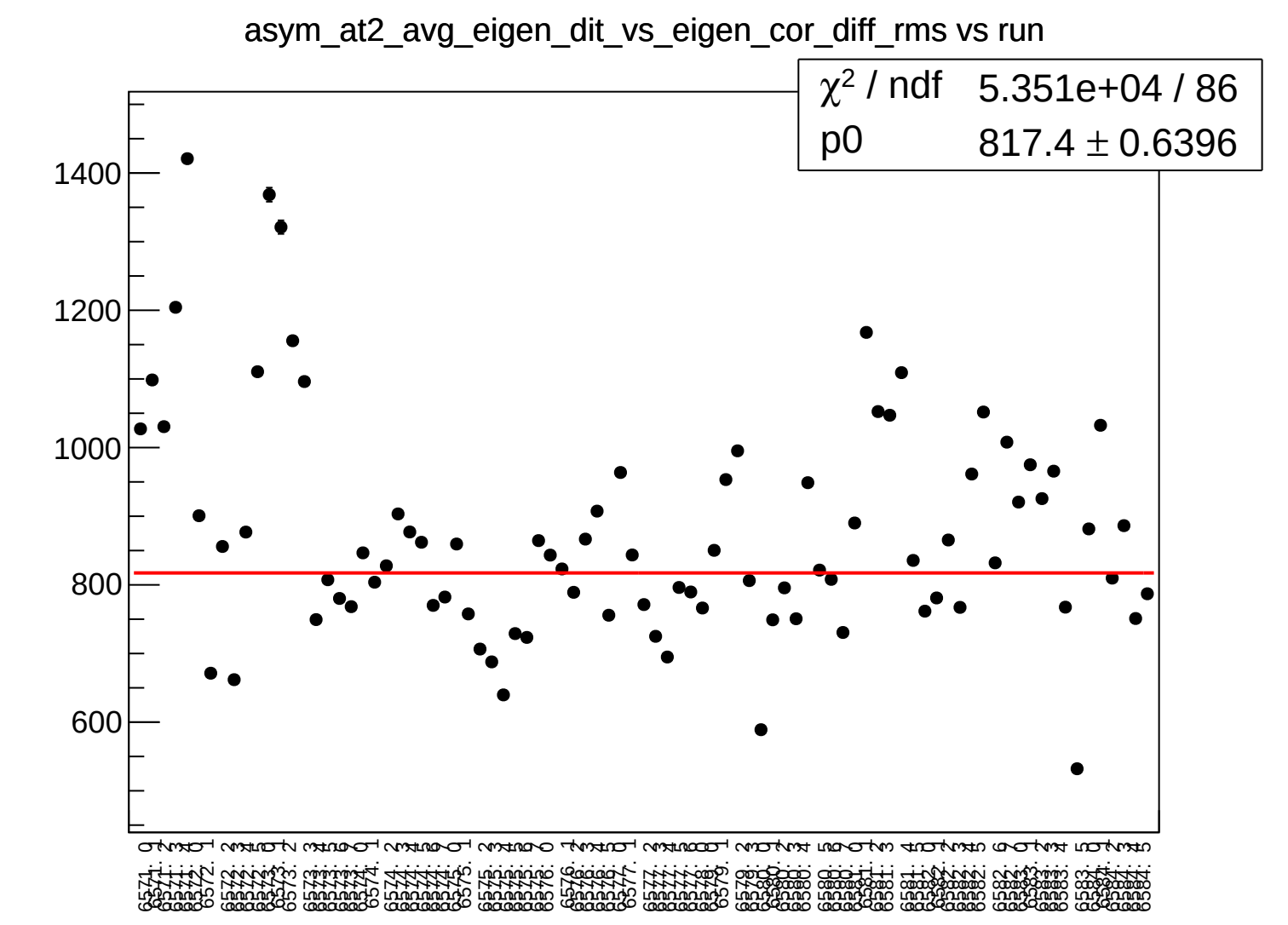

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.19e+04 / 86
p0 0.01266 ± 9.786e−06
0.016
0.015
0.014
0.013
0.012
0.011

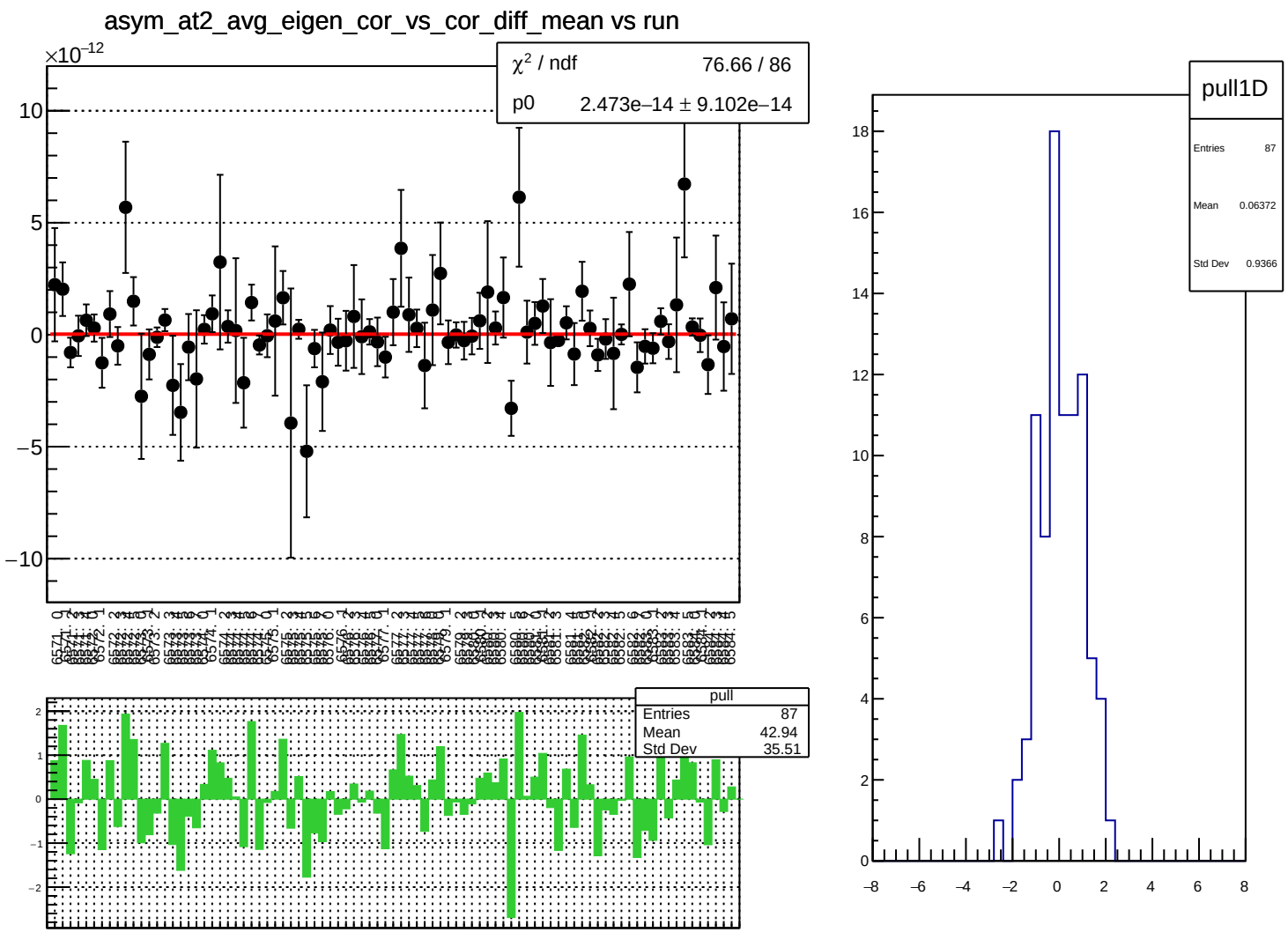

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.08 / 86
p0 0.4262 ± 0.9045
pull
Entries 87
Mean 123.5
Std Dev 0
pull1D
Entries 87
Mean 0.0339
Std Dev 1.028

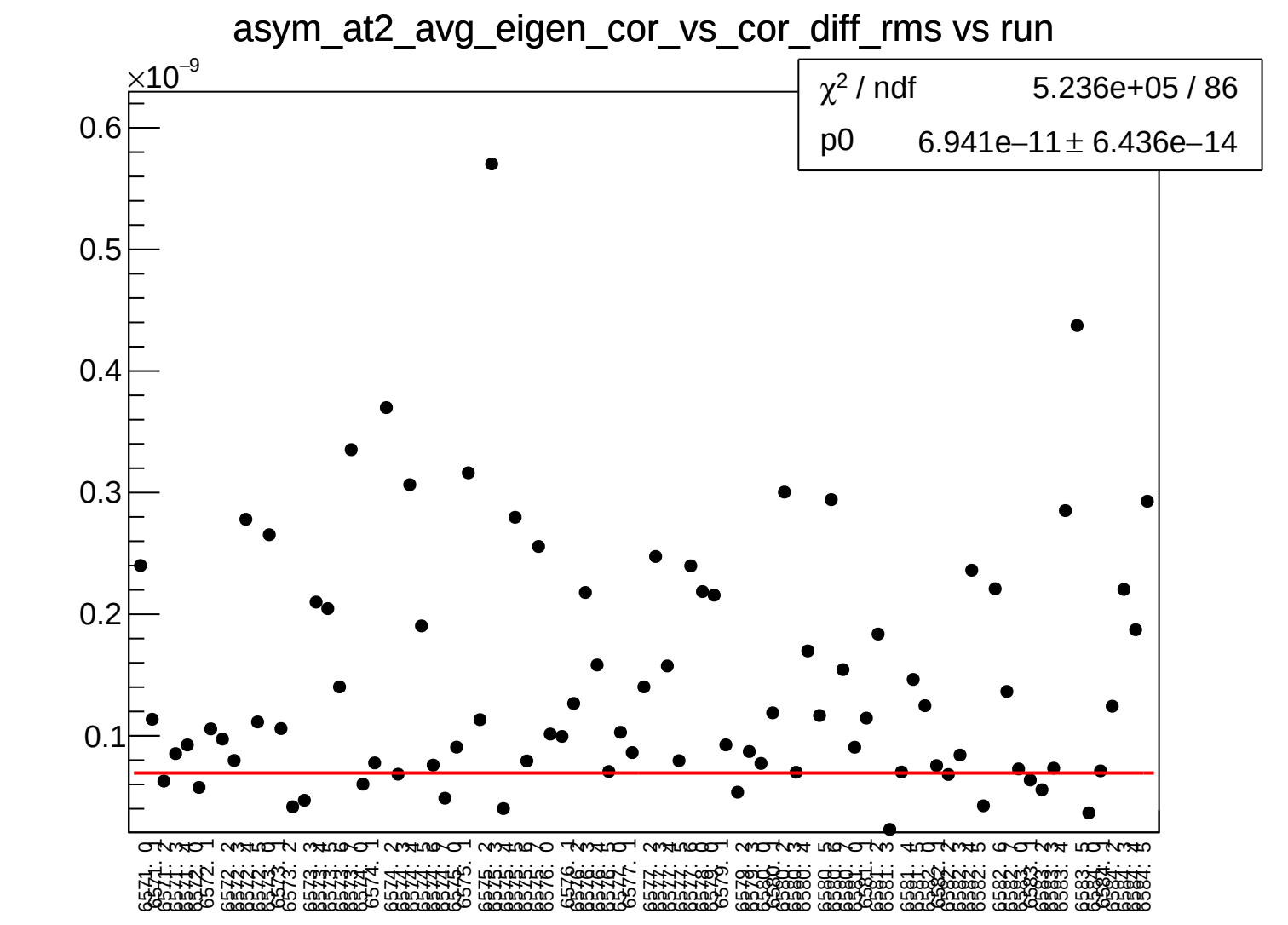

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.351e+04 / 86
p0 817.4 ± 0.6396
1400
1200
1000
800
600

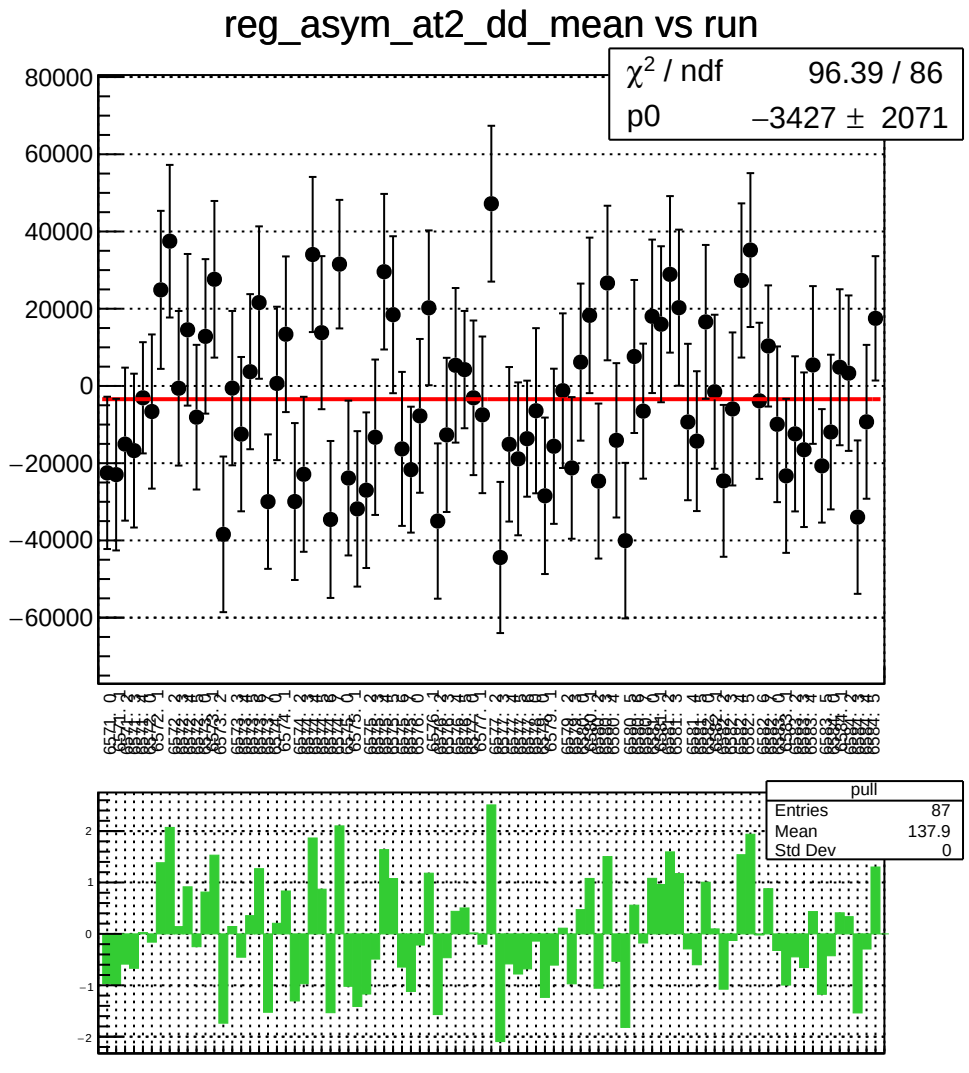

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.08 / 86
p0 0.4262 ± 0.9045
pull
Entries 87
Mean 123.5
Std Dev 0

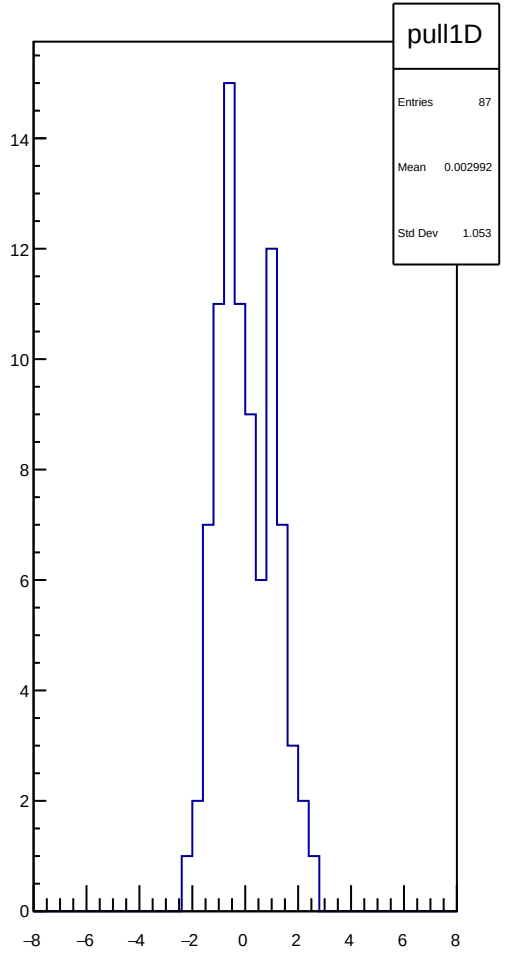

pull1D
Entries 87
Mean 0.0339
Std Dev 1.028

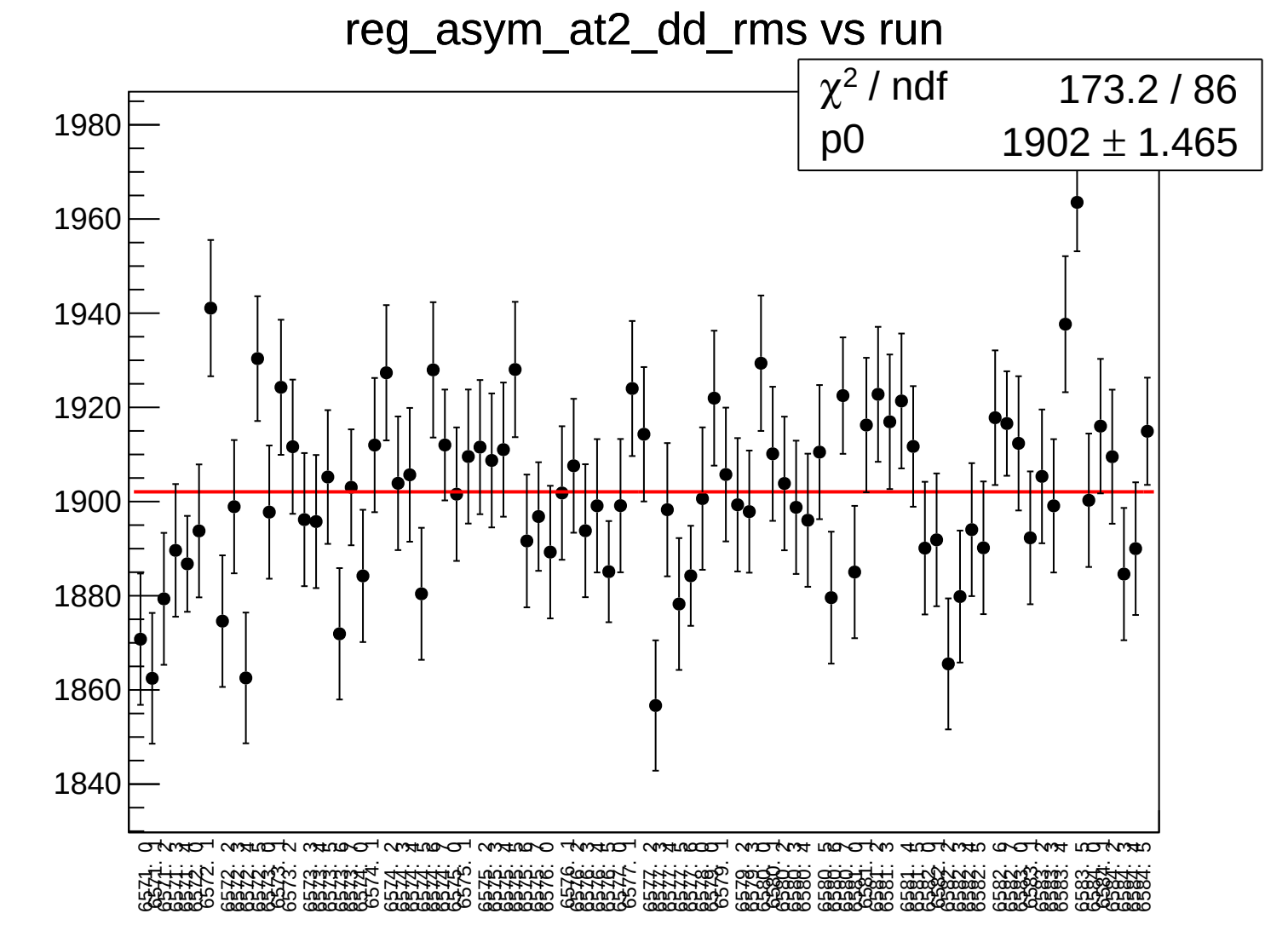

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.351e+04 / 86
p0 817.4 ± 0.6396
1400
1200
1000
800
600

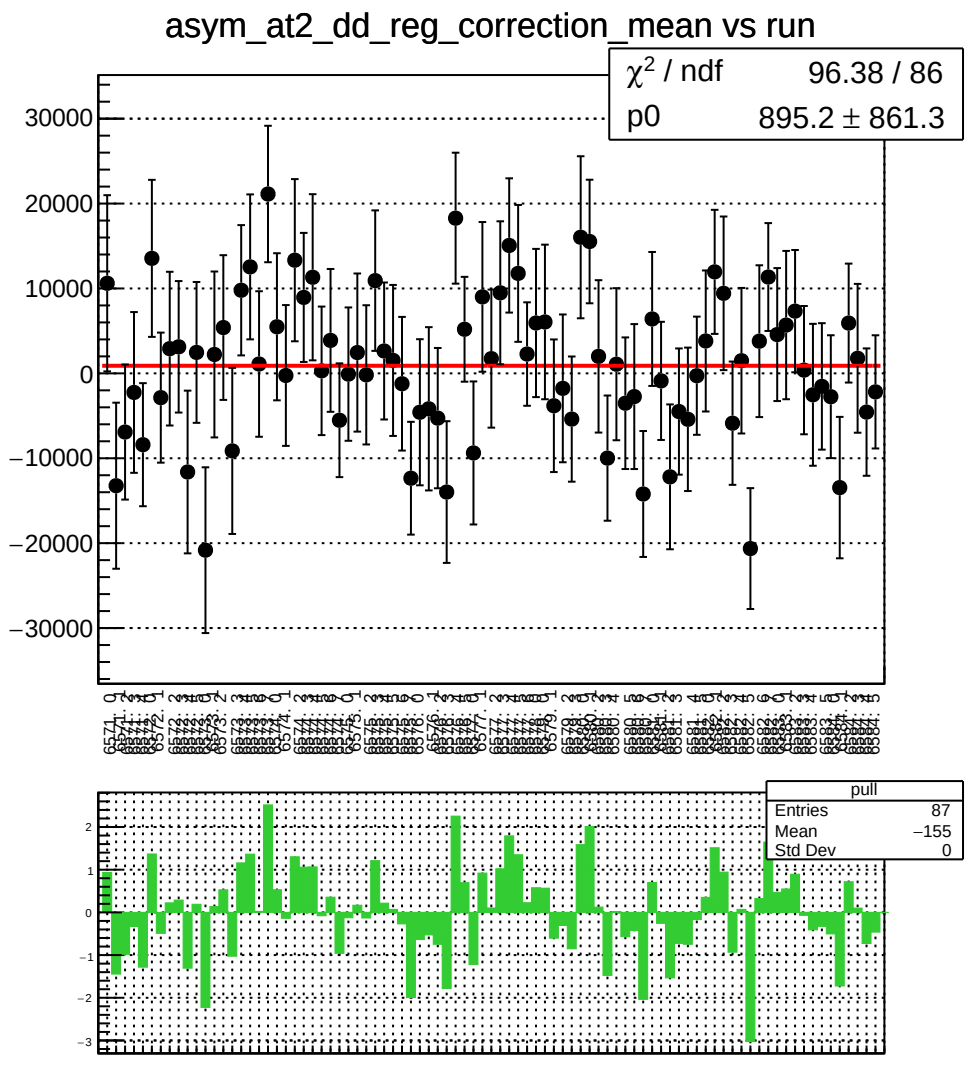

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.66 / 86
p0 2.473e−14 ± 9.102e−14
pull
Entries 87
Mean 42.94
Std Dev 35.51
pull1D
Entries 87
Mean 0.06372
Std Dev 0.9366

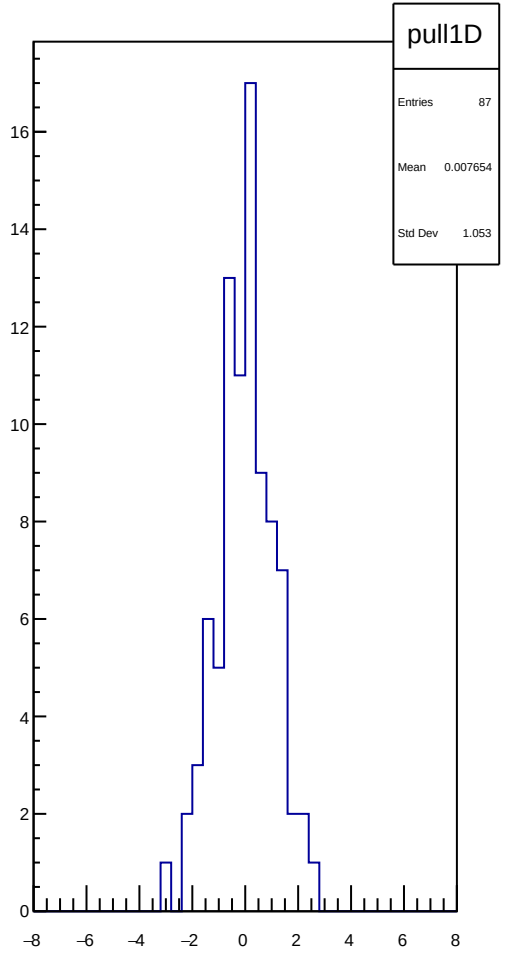

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.236e+05 / 86
p0 6.941e−11 ± 6.436e−14
0.6
0.5
0.4
0.3
0.2
0.1

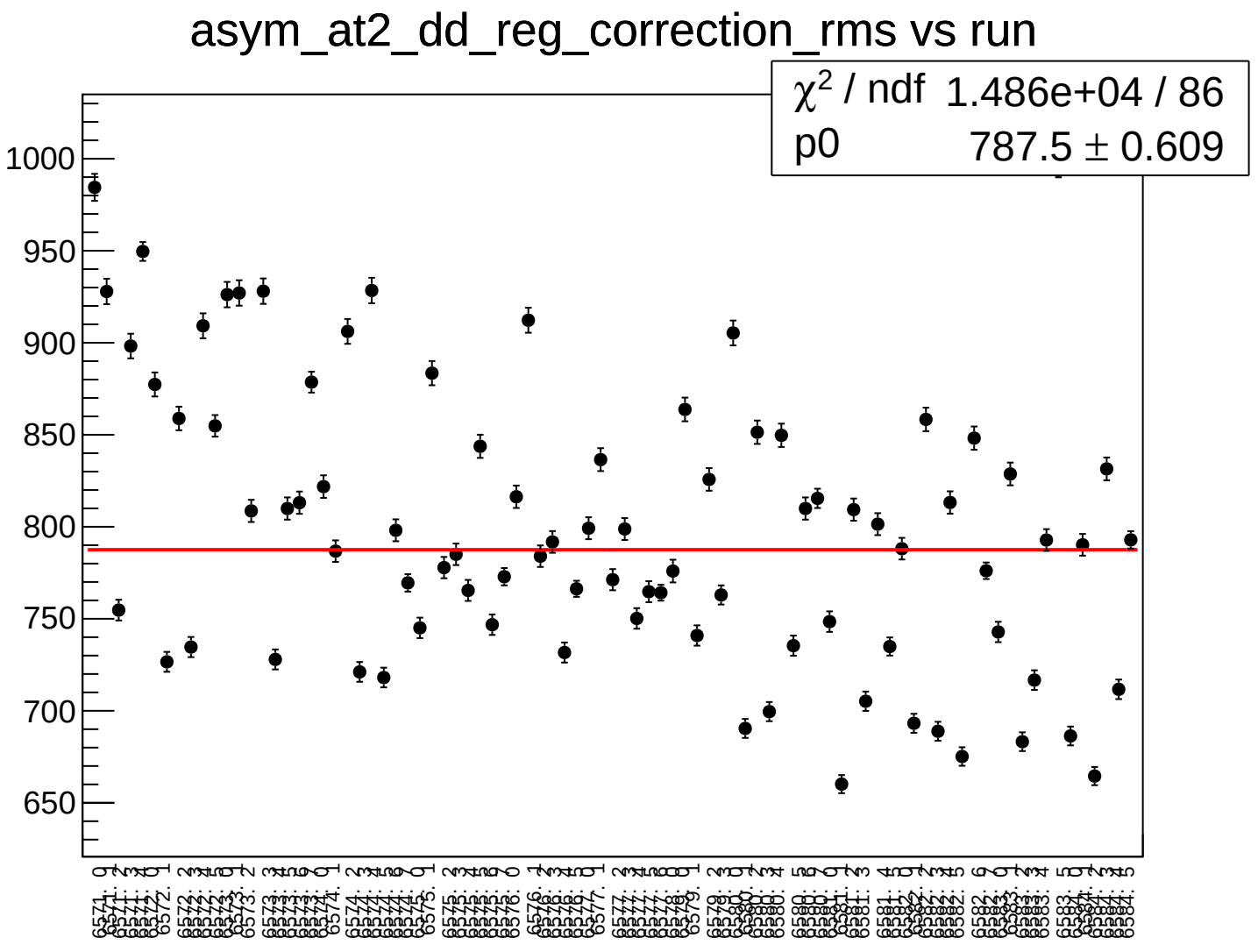

reg_asym_at2_dd_mean vs run
χ² / ndf 96.39 / 86
p0 −3427 ± 2071
pull
Entries 87
Mean 137.9
Std Dev 0

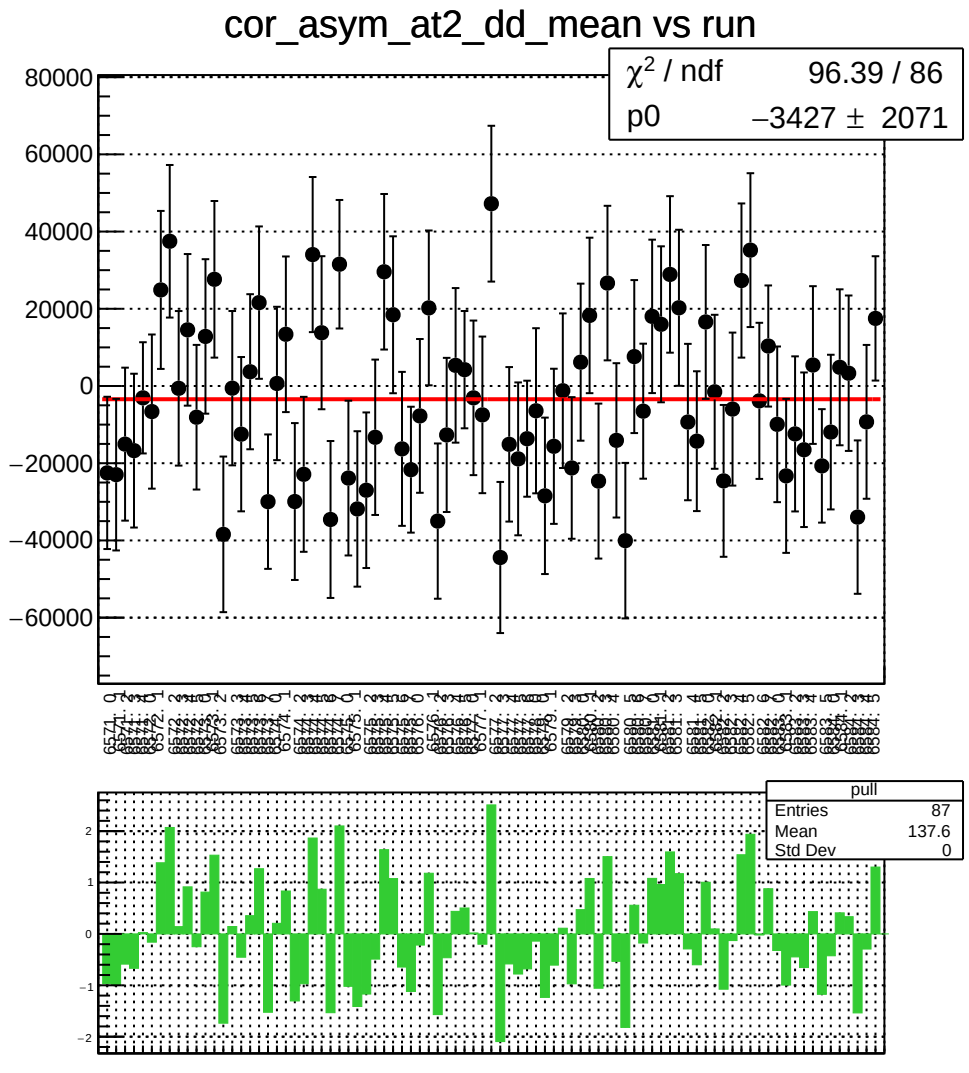

pull1D
Entries 87
Mean 0.002992
Std Dev 1.053

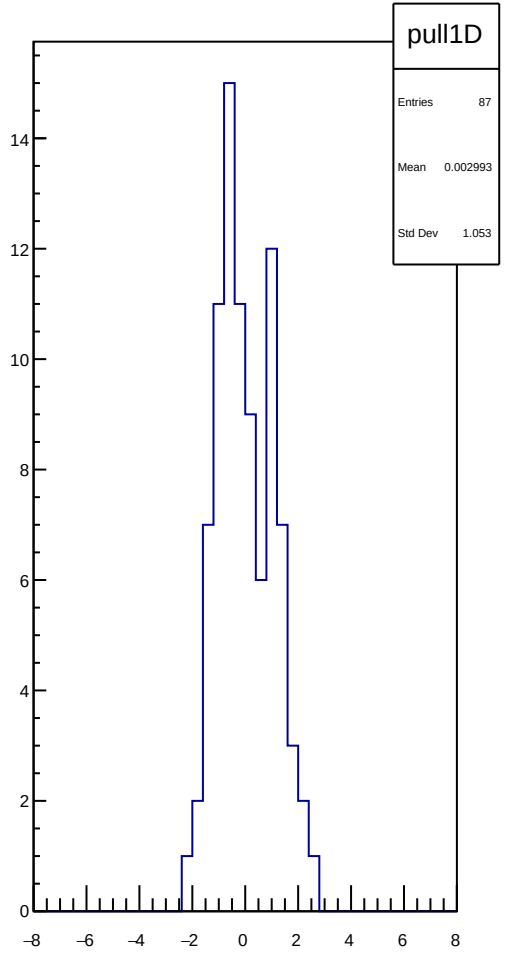

reg_asym_at2_dd_rms vs run
χ^2 / ndf 173.2 / 86
p0 1902 ± 1.465
1980
1960
1940
1920
1900
1880
1860
1840

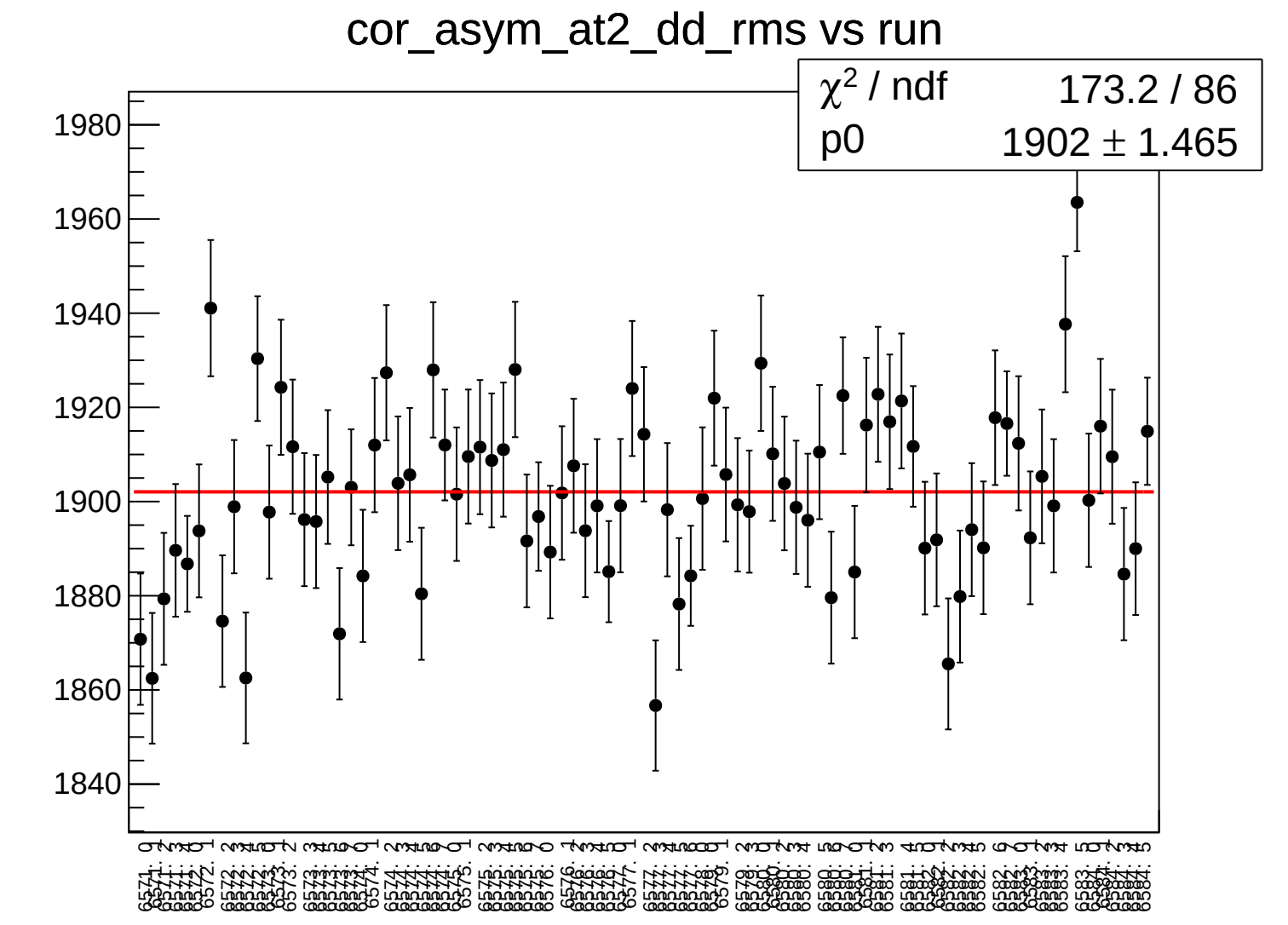

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 96.38 / 86
p0 895.2 ± 861.3
pull
Entries 87
Mean −155
Std Dev 0

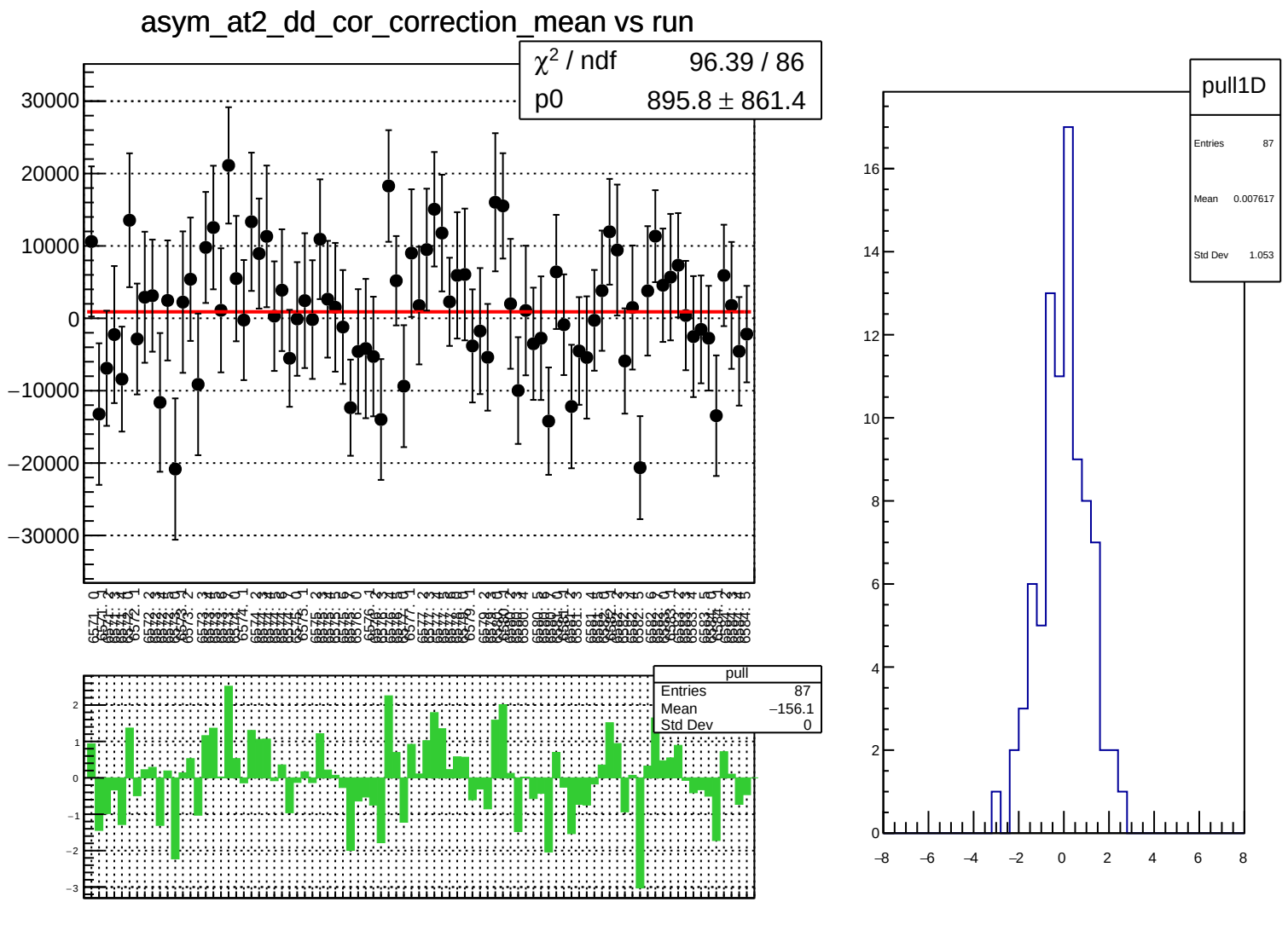

pull1D
Entries 87
Mean 0.007654
Std Dev 1.053

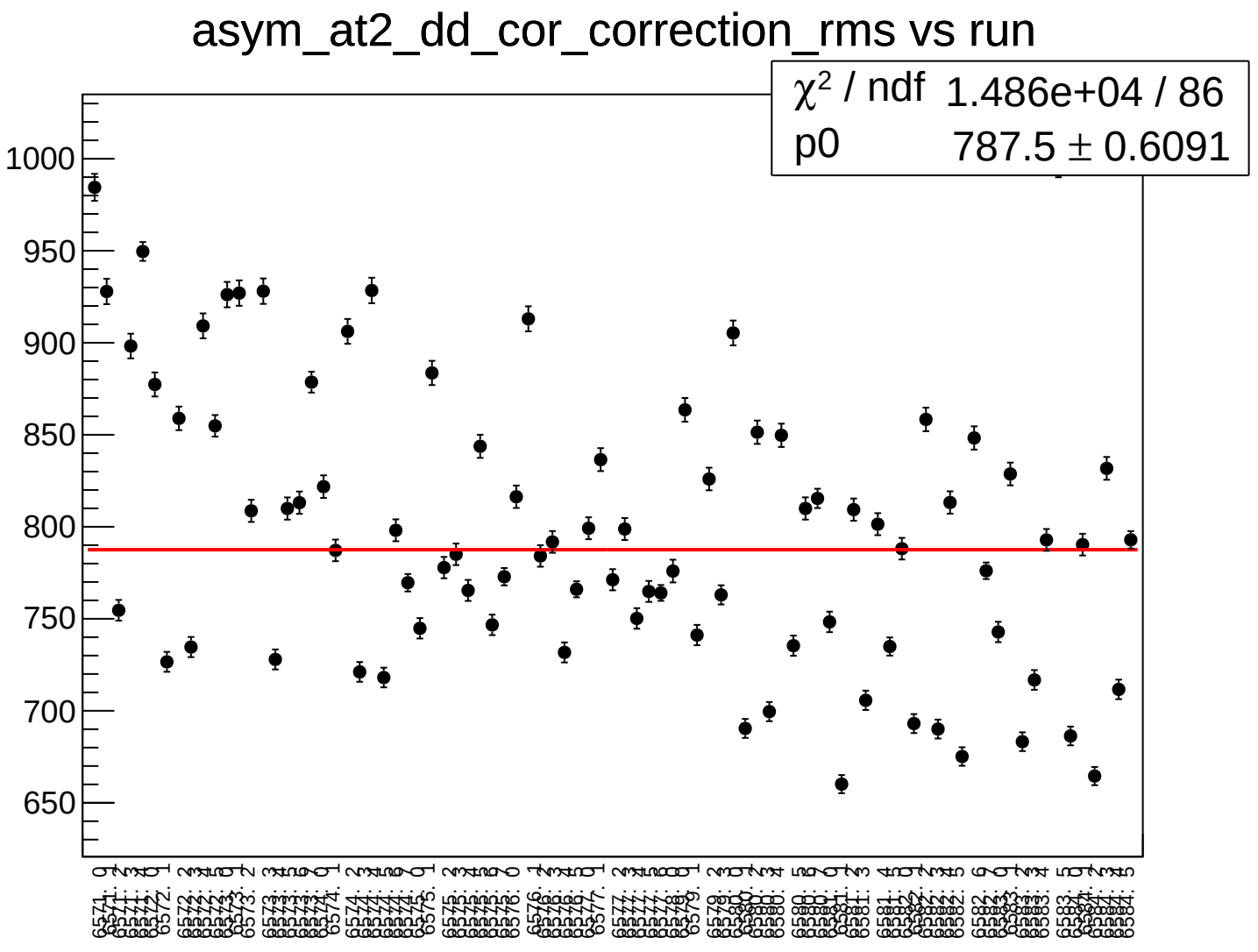

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.486e+04 / 86
p0 787.5 ± 0.609
1000
950
900
850
800
750
700
650

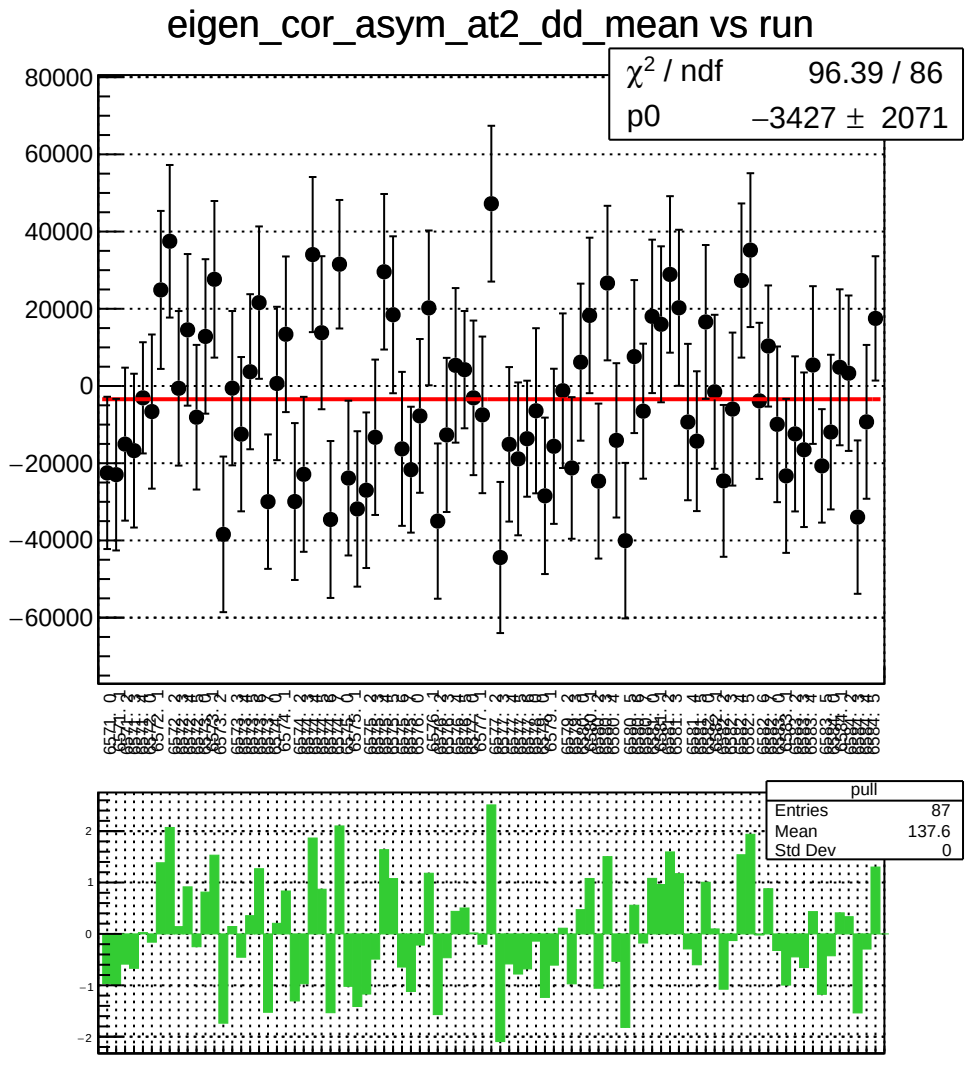

cor_asym_at2_dd_mean vs run
χ² / ndf 96.39 / 86
p0 −3427 ± 2071
pull
Entries 87
Mean 137.6
Std Dev 0

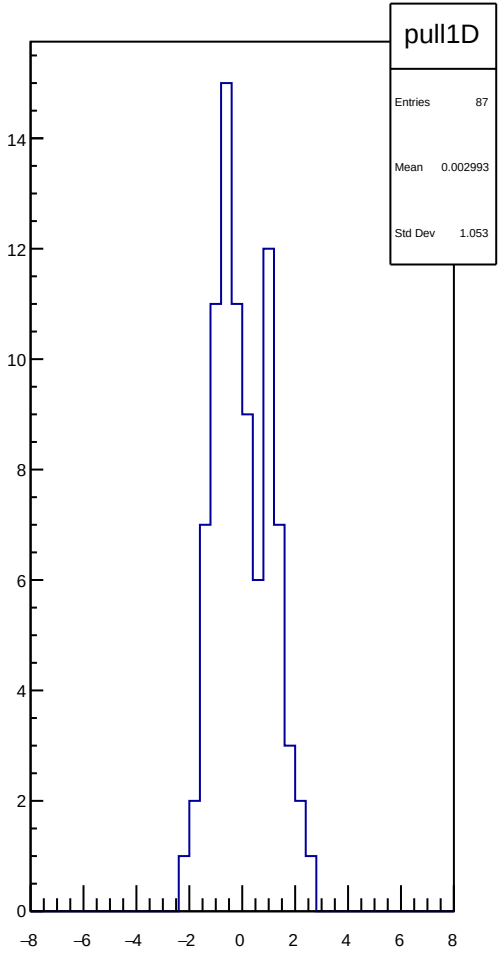

pull1D
Entries 87
Mean 0.002993
Std Dev 1.053

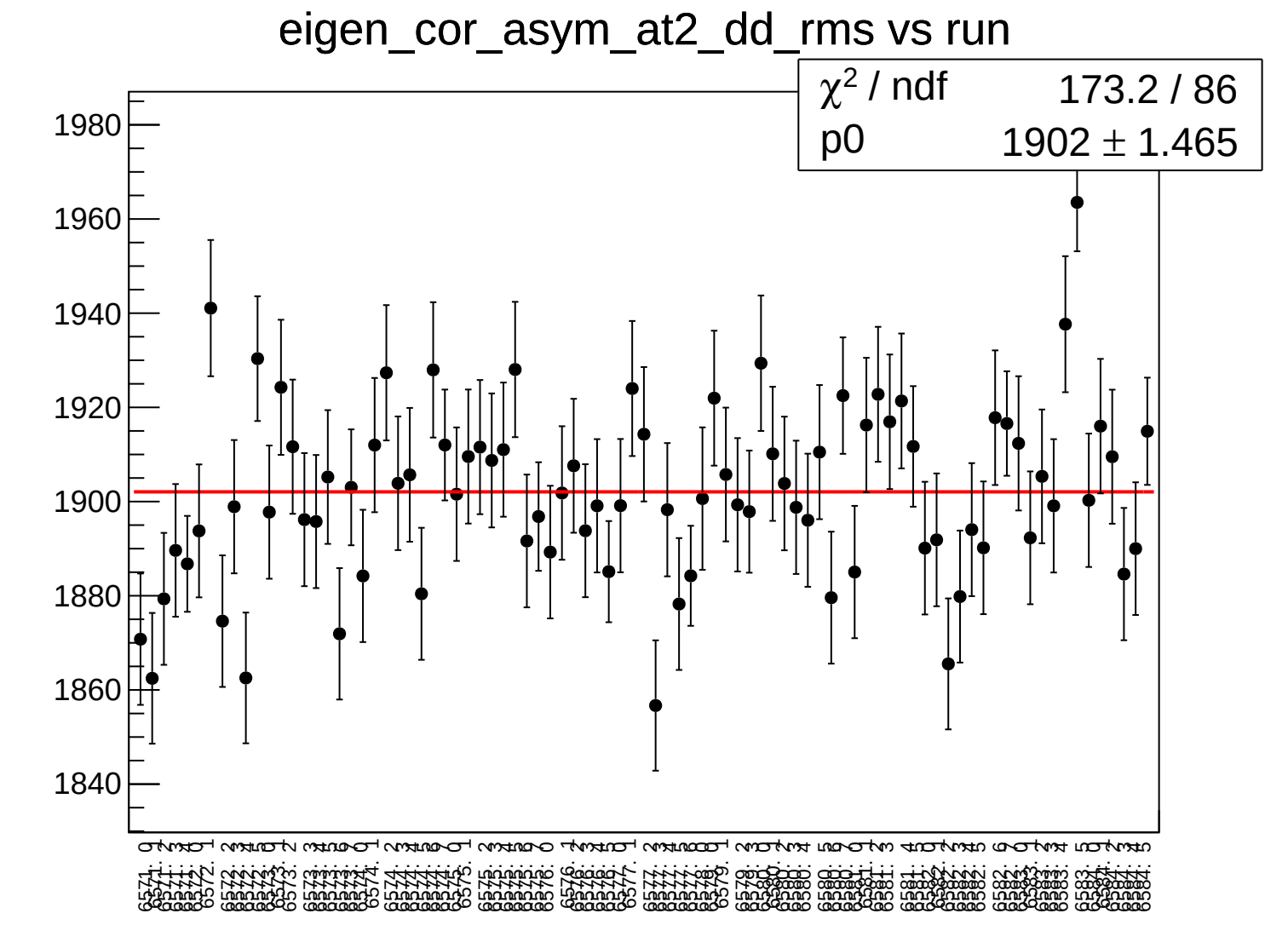

cor_asym_at2_dd_rms vs run
χ^2 / ndf 173.2 / 86
p0 1902 ± 1.465
1980
1960
1940
1920
1900
1880
1860
1840

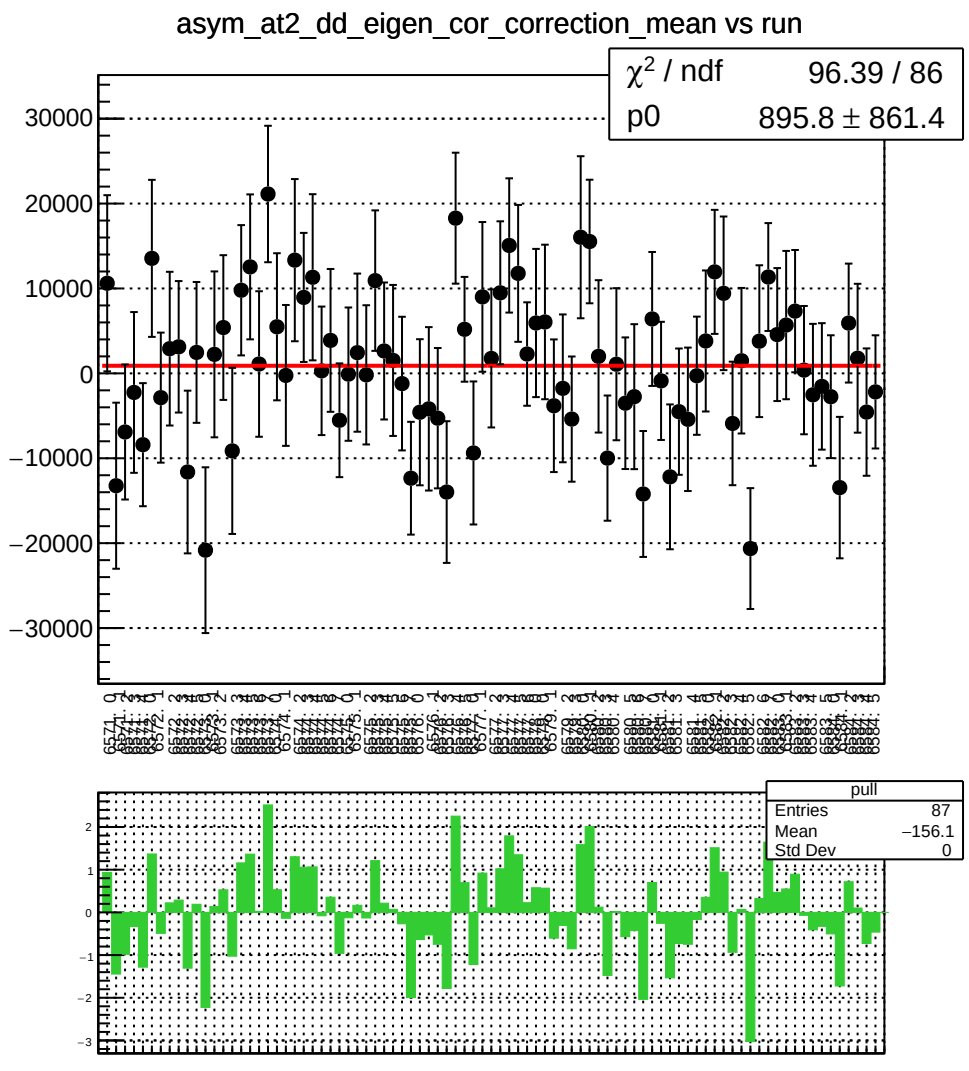

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 96.39 / 86
p0 895.8 ± 861.4
pull
Entries 87
Mean −156.1
Std Dev 0
pull1D
Entries 87
Mean 0.007617
Std Dev 1.053

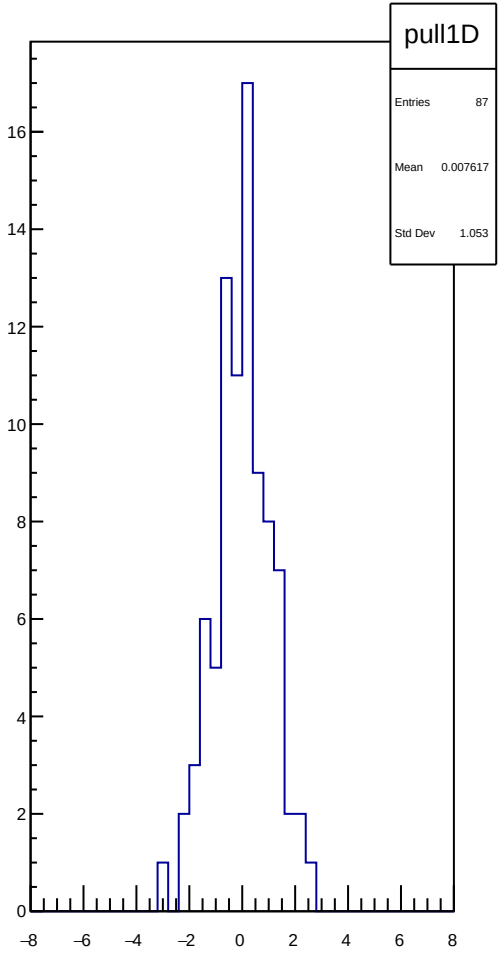

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.486e+04 / 86
p0 787.5 ± 0.6091
1000
950
900
850
800
750
700
650

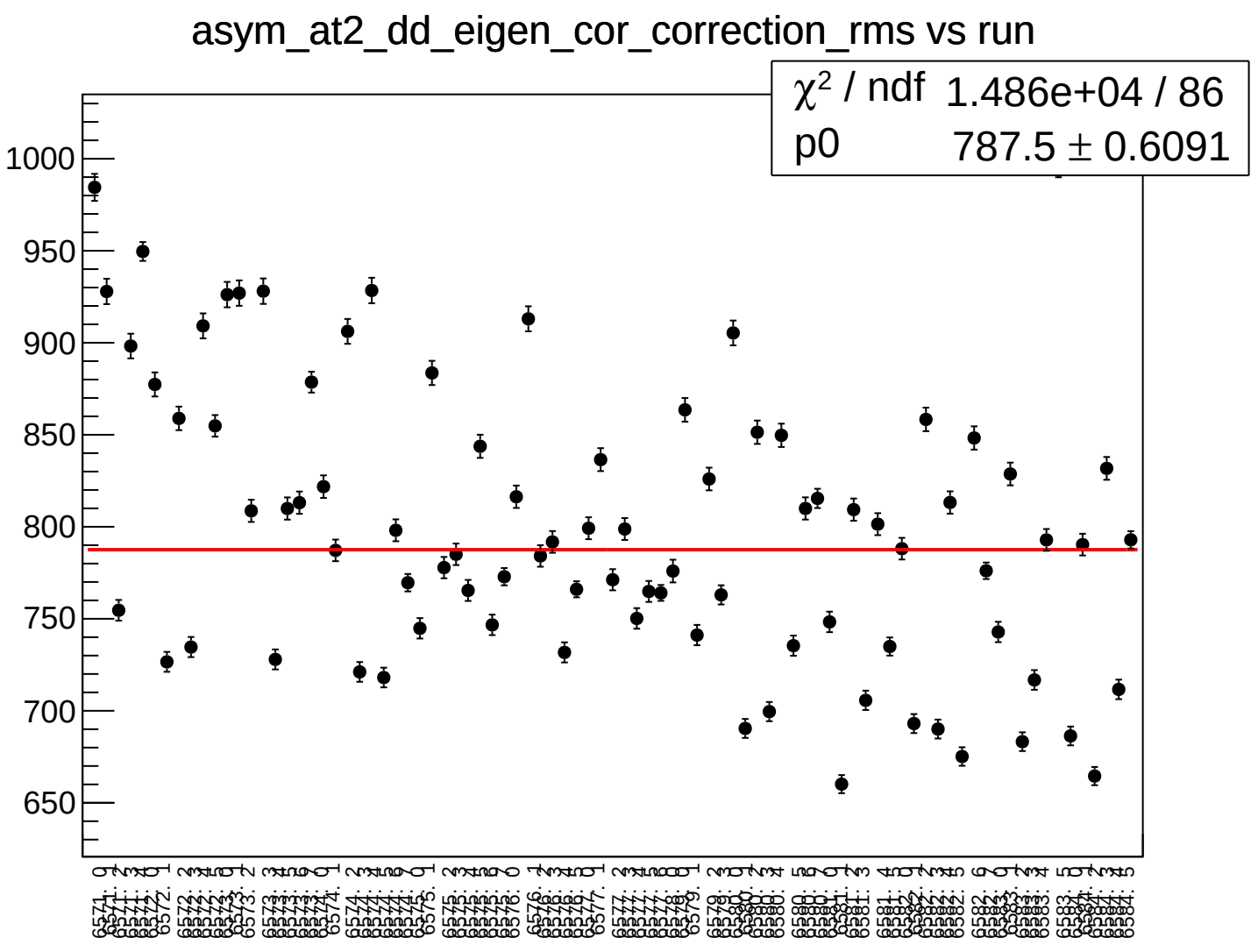

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 96.39 / 86
p0 −3427 ± 2071
pull
Entries 87
Mean 137.6
Std Dev 0

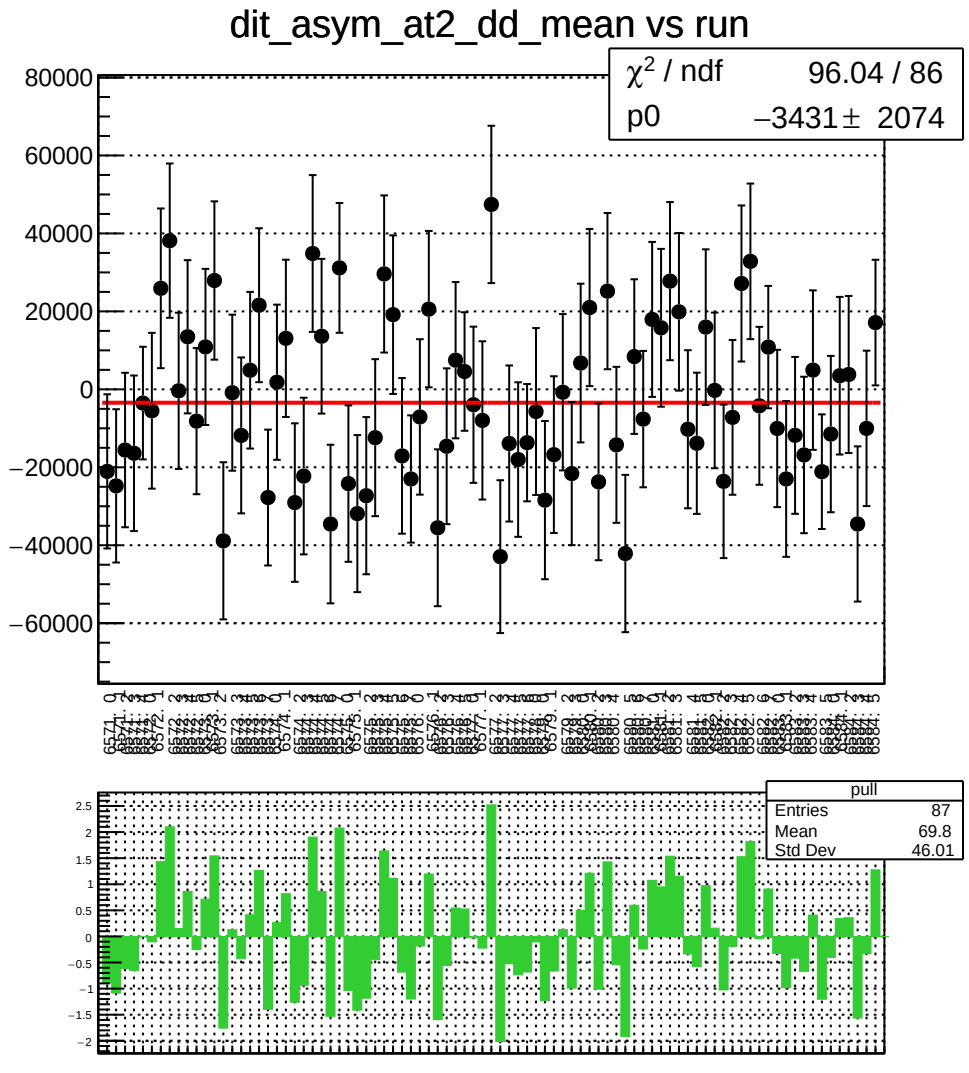

pull1D
Entries 87
Mean 0.002993
Std Dev 1.053

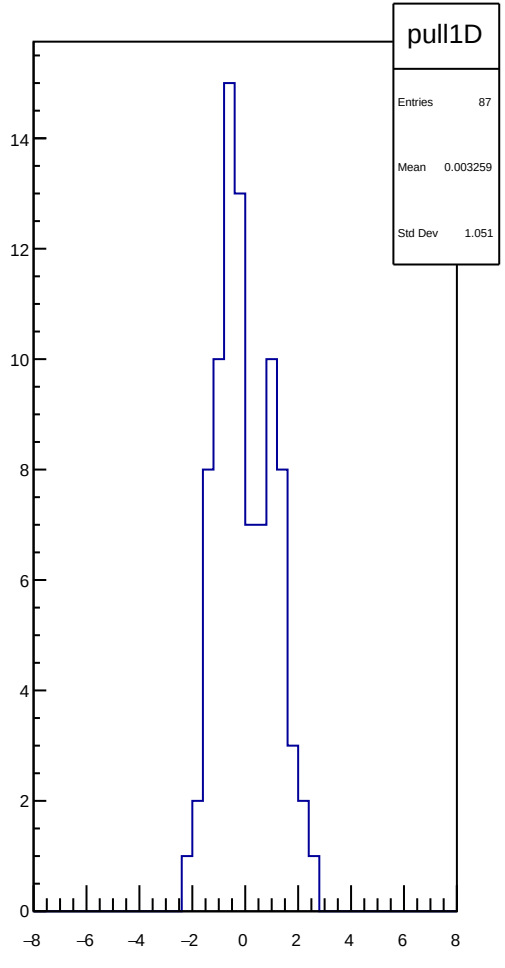

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 173.2 / 86
p0 1902 ± 1.465
1980
1960
1940
1920
1900
1880
1860
1840

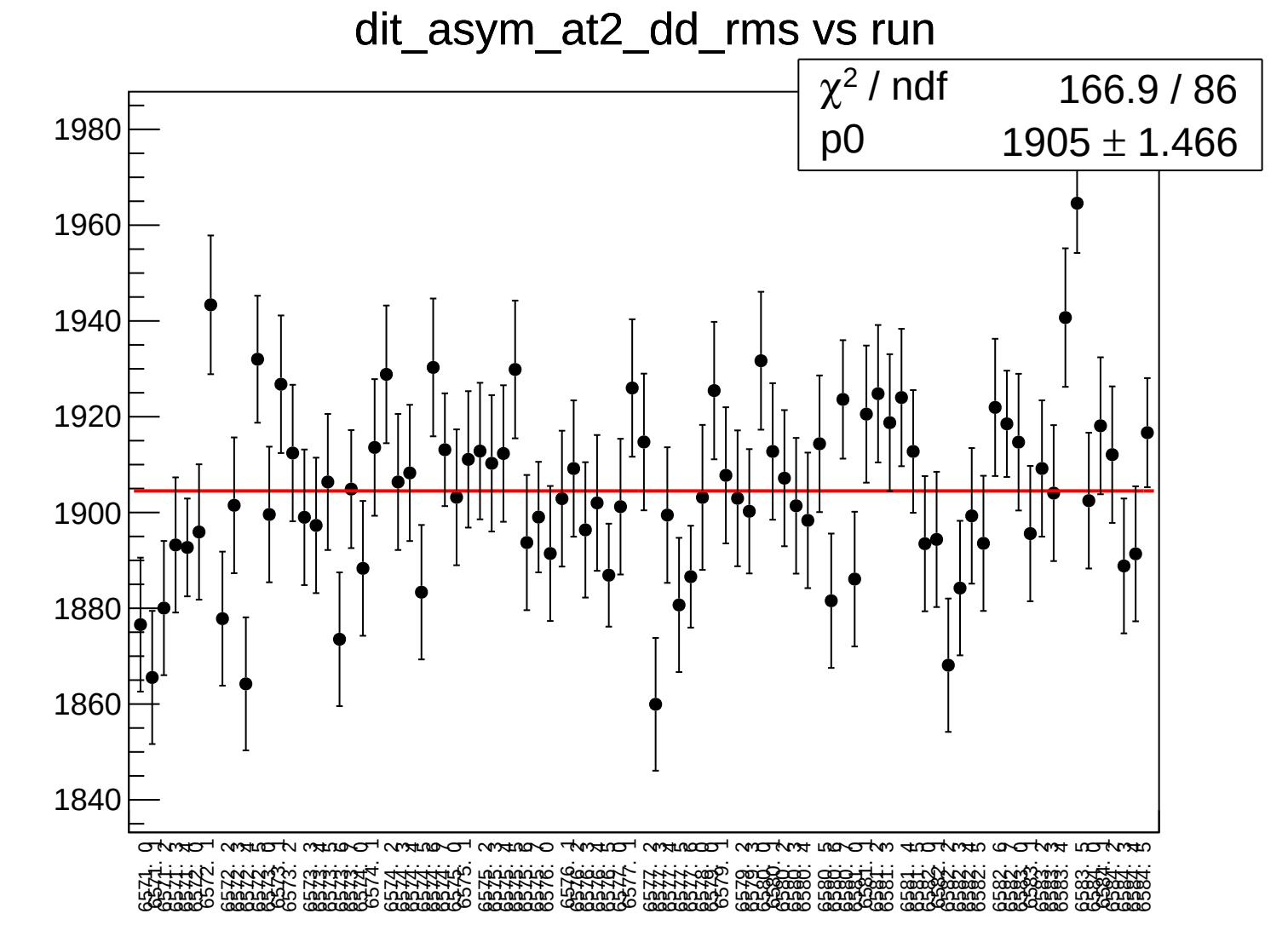

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.39 / 86
p0 895.8 ± 861.4
pull
Entries 87
Mean −156.1
Std Dev 0

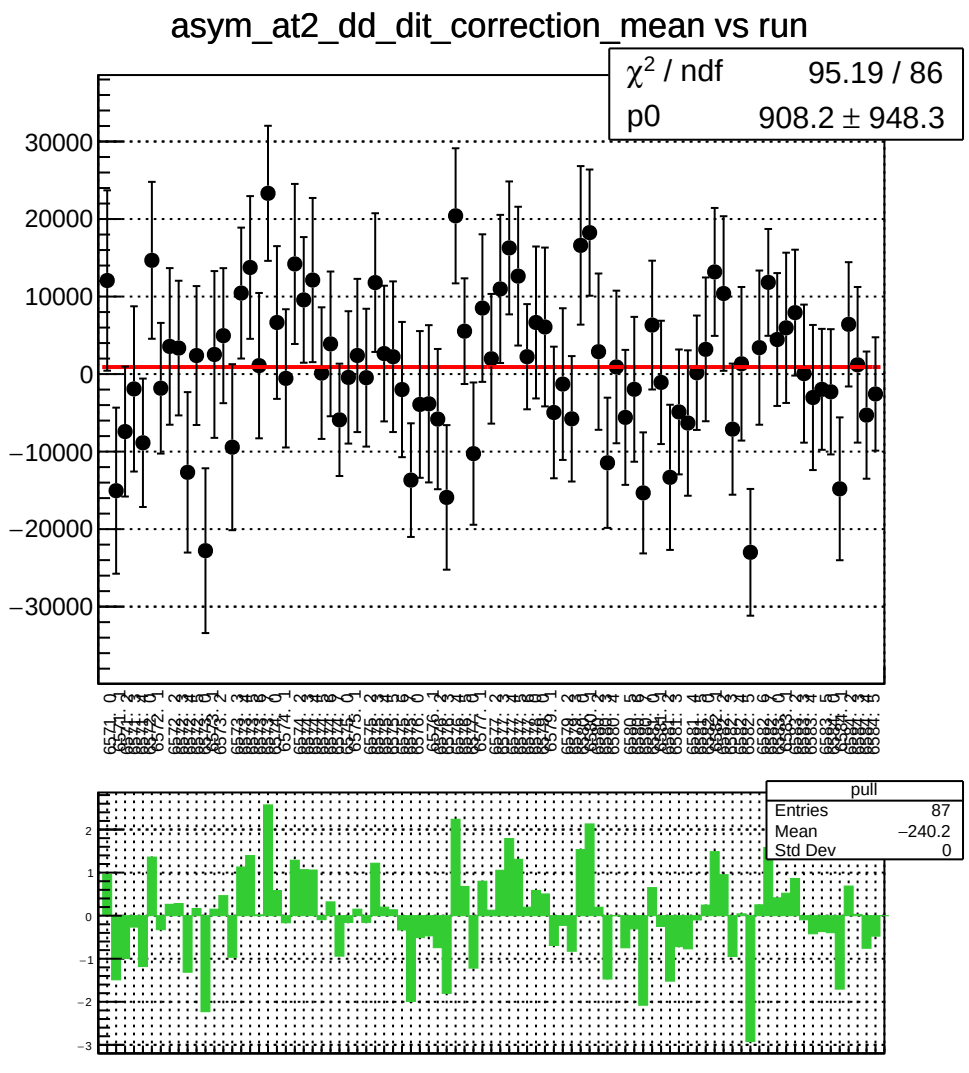

pull1D
Entries 87
Mean 0.007617
Std Dev 1.053

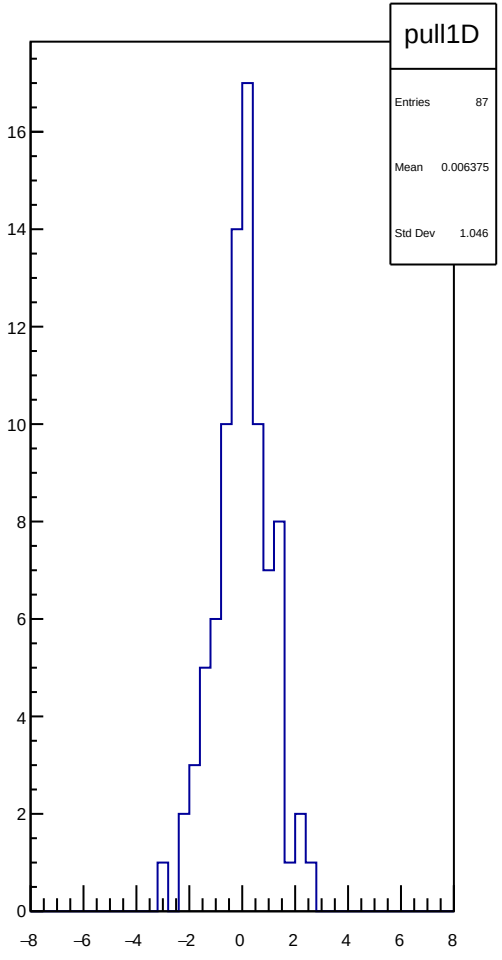

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.486e+04 / 86
p0 787.5 ± 0.6091
1000
950
900
850
800
750
700
650

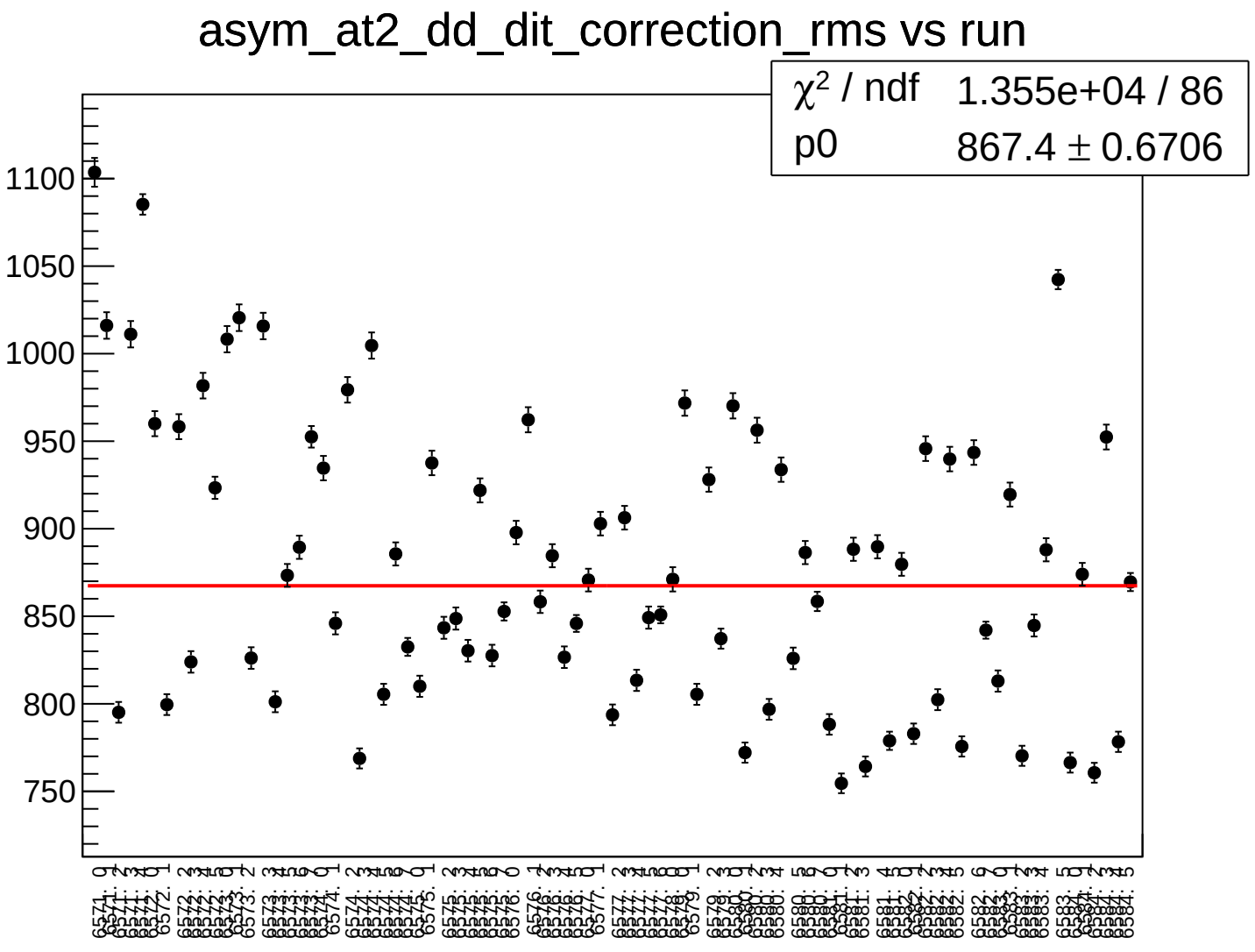

dit_asym_at2_dd_mean vs run
χ² / ndf 96.04 / 86
p0 −3431 ± 2074
pull
Entries 87
Mean 69.8
Std Dev 46.01

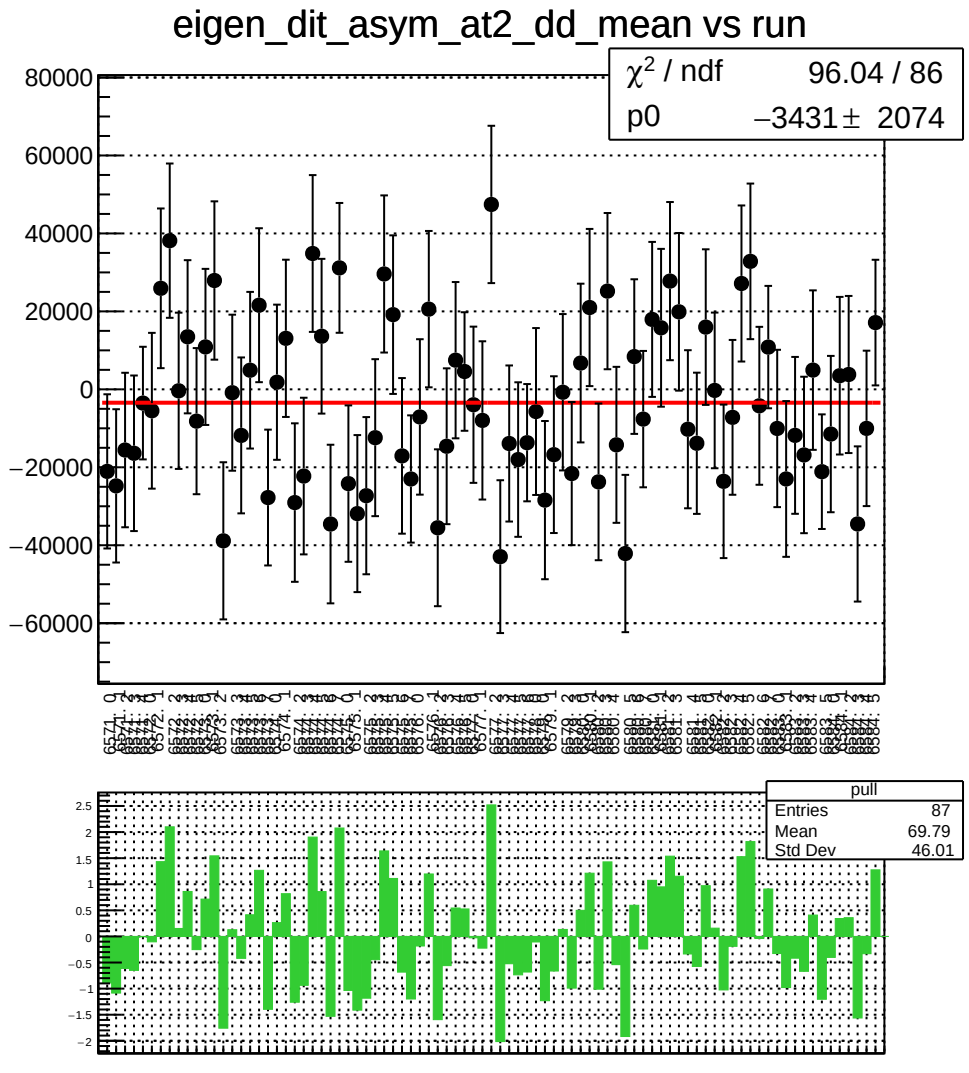

pull1D
Entries 87
Mean 0.003259
Std Dev 1.051

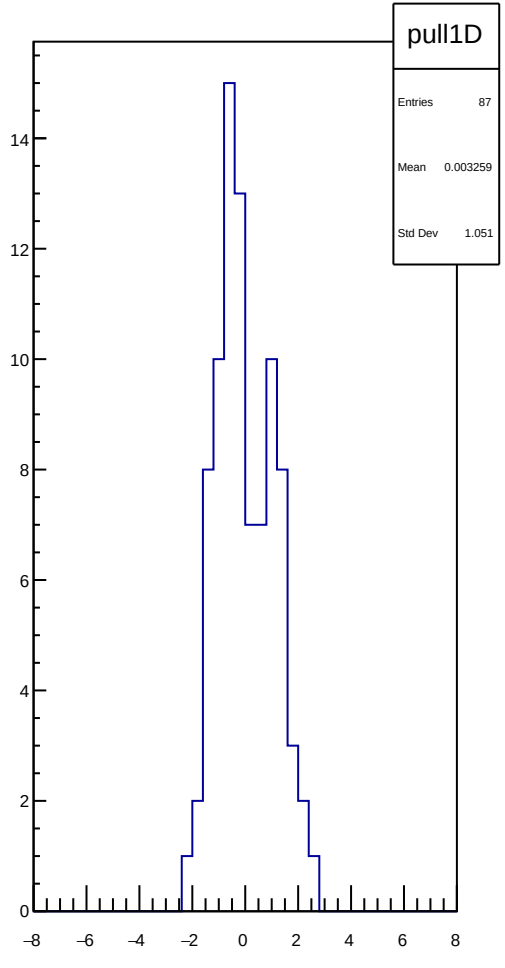

dit_asym_at2_dd_rms vs run
χ² / ndf 166.9 / 86
p0 1905 ± 1.466
1980
1960
1940
1920
1900
1880
1860
1840

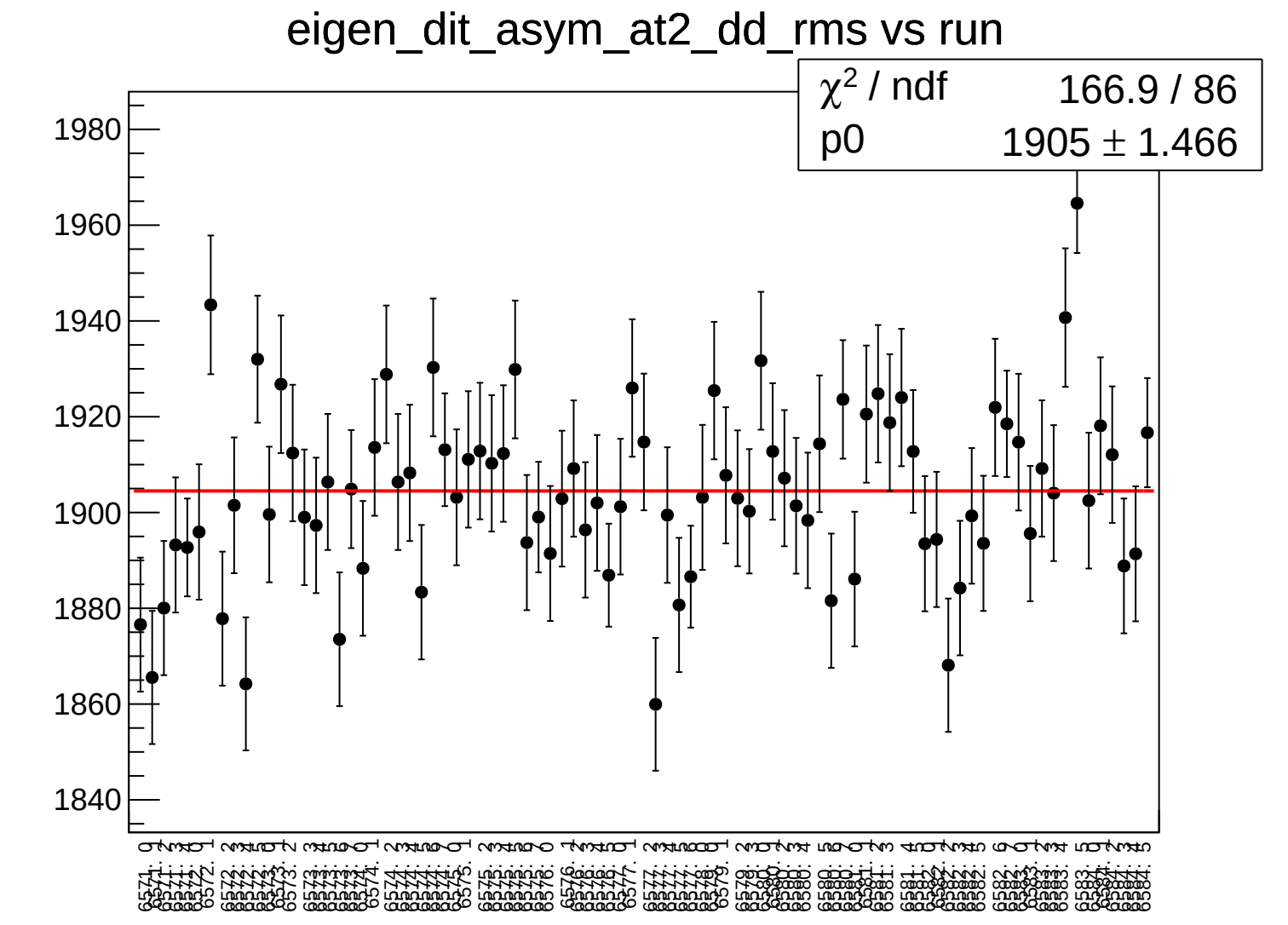

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 95.19 / 86
p0 908.2 ± 948.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −240.2
Std Dev 0
2
1
0
−1
−2
−3

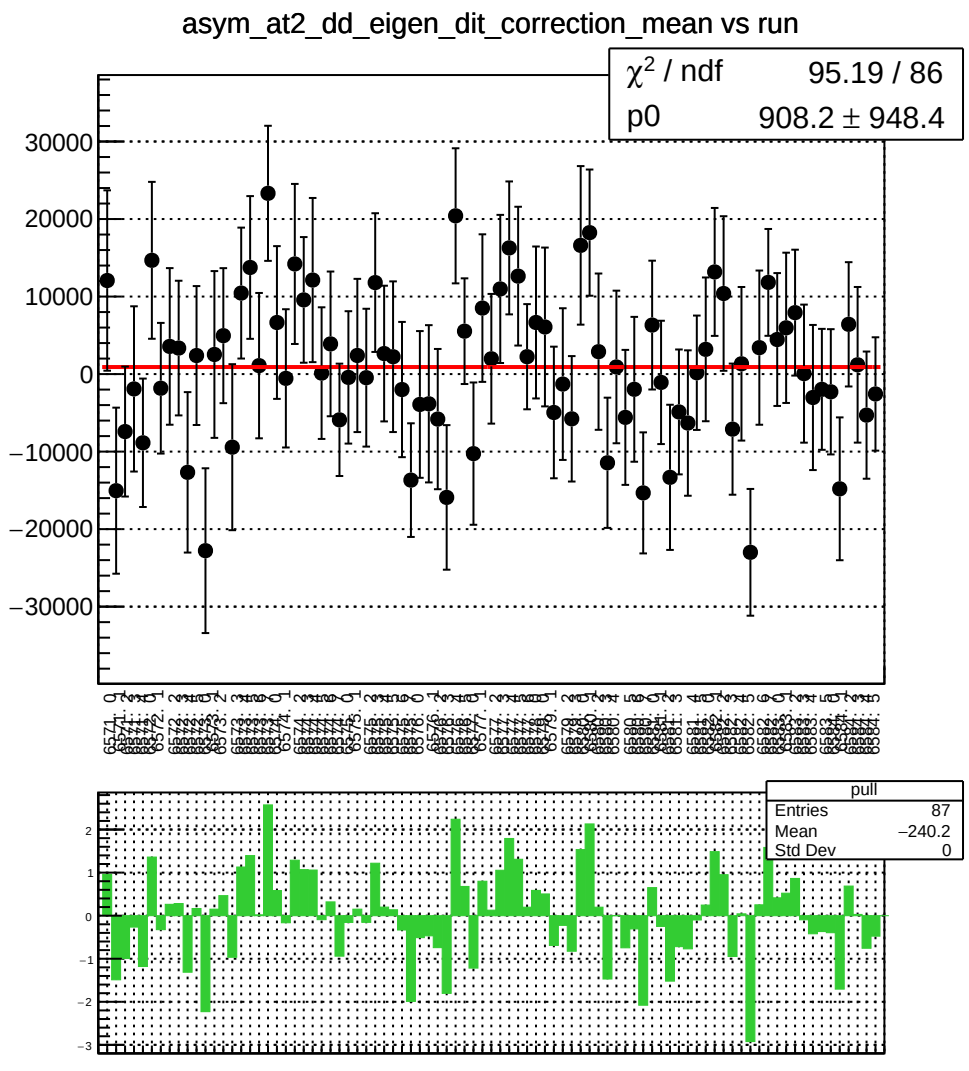

pull1D
Entries 87
Mean 0.006375
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

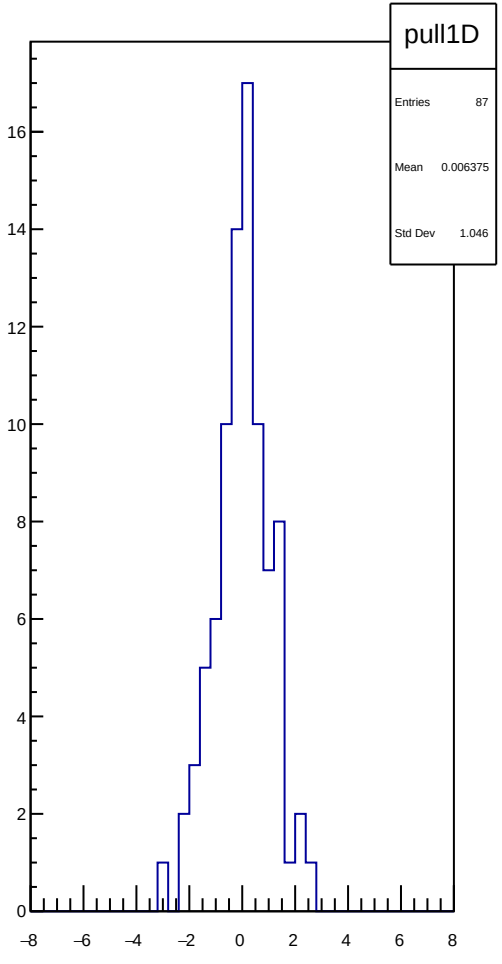

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1.355e+04 / 86
p0 867.4 ± 0.6706
1100
1050
1000
950
900
850
800
750

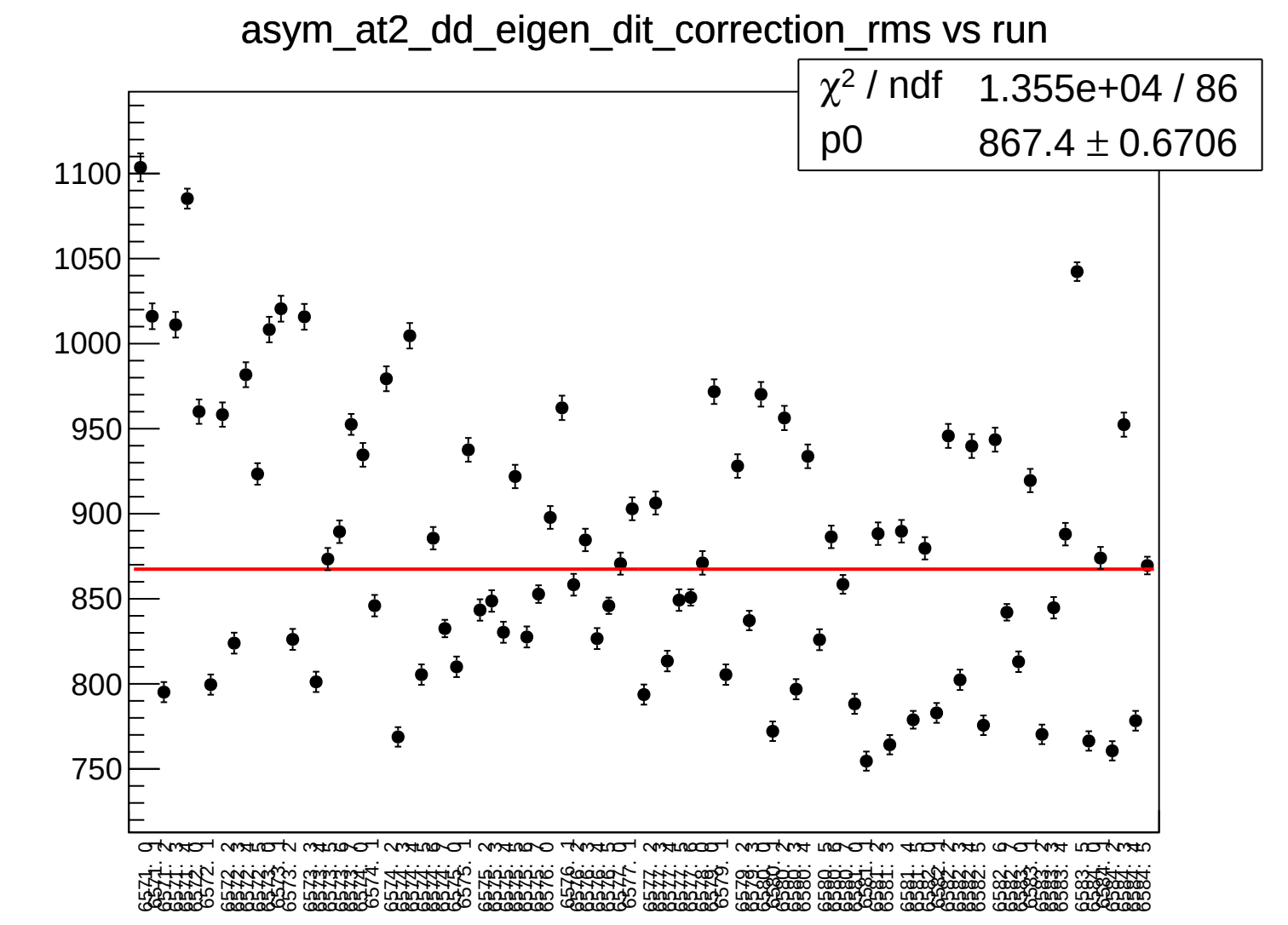

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 96.04 / 86
p0 −3431 ± 2074
pull
Entries 87
Mean 69.79
Std Dev 46.01

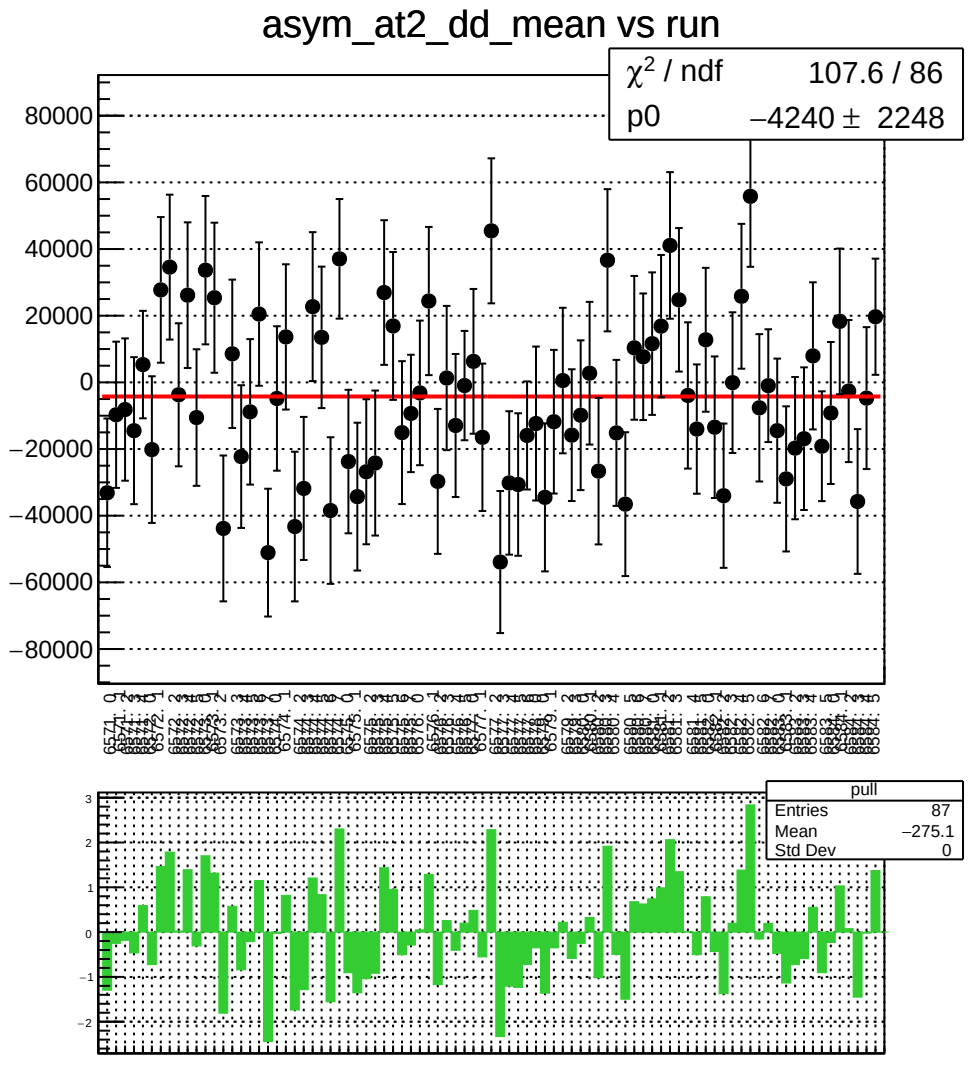

pull1D
Entries 87
Mean 0.003259
Std Dev 1.051

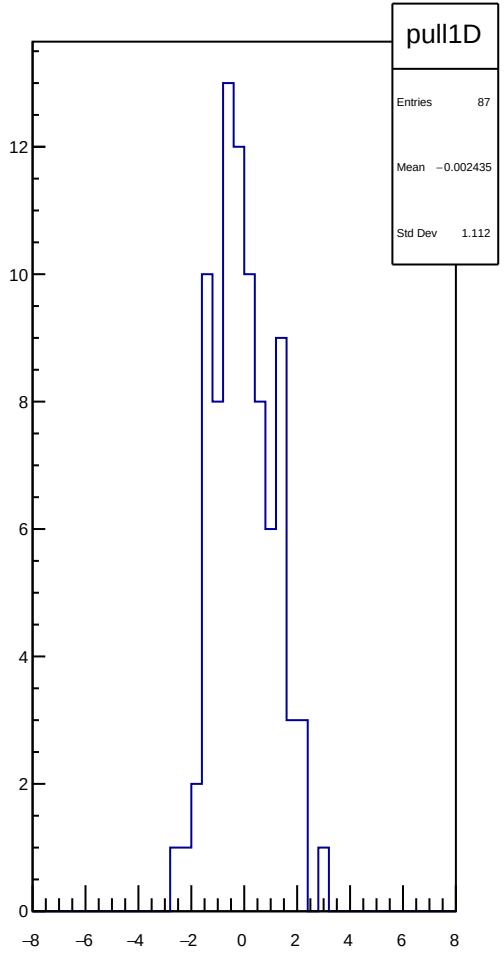

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 166.9 / 86
p0 1905 ± 1.466
1980
1960
1940
1920
1900
1880
1860
1840

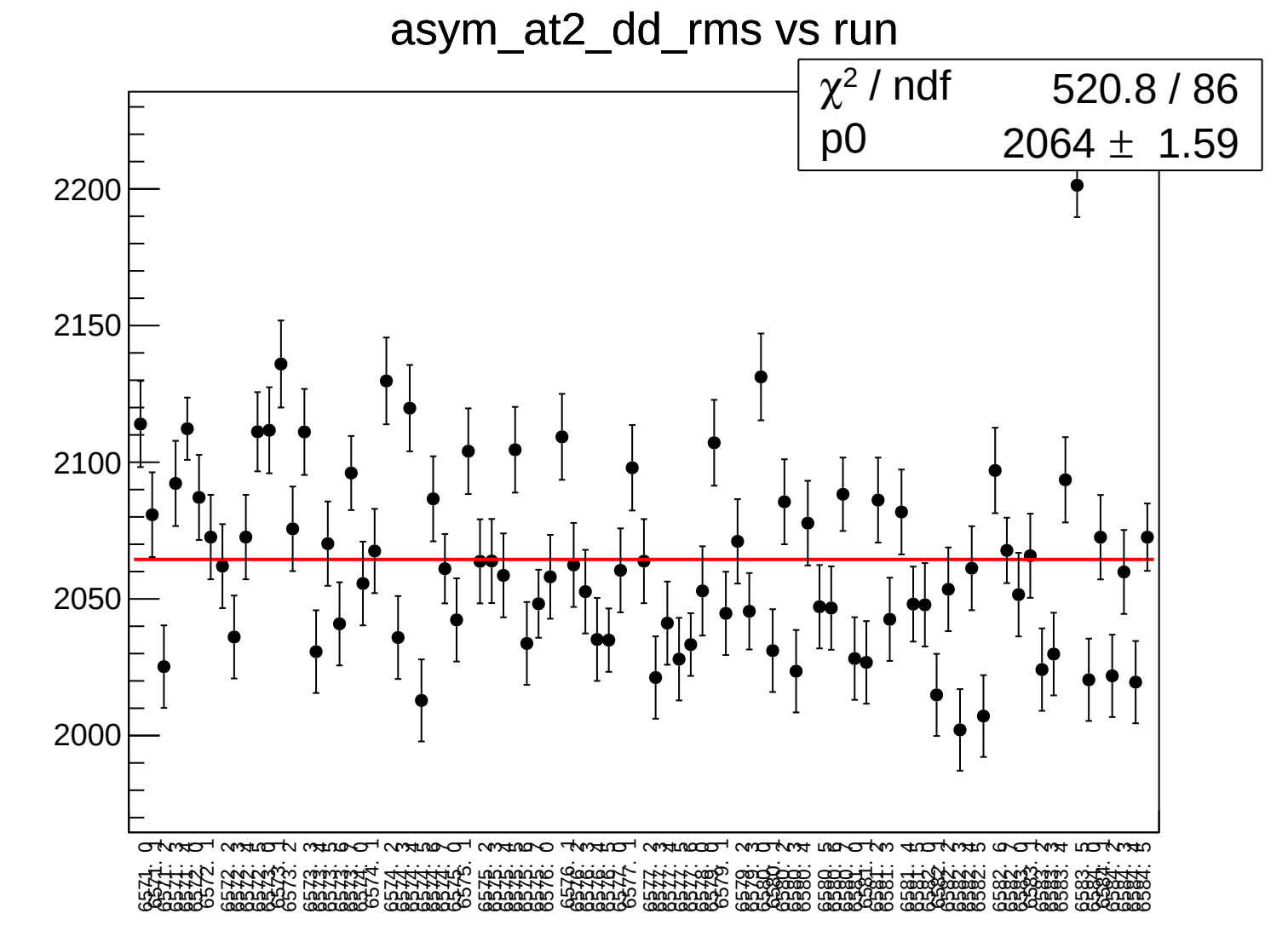

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.19 / 86
p0 908.2 ± 948.4
pull
Entries 87
Mean −240.2
Std Dev 0

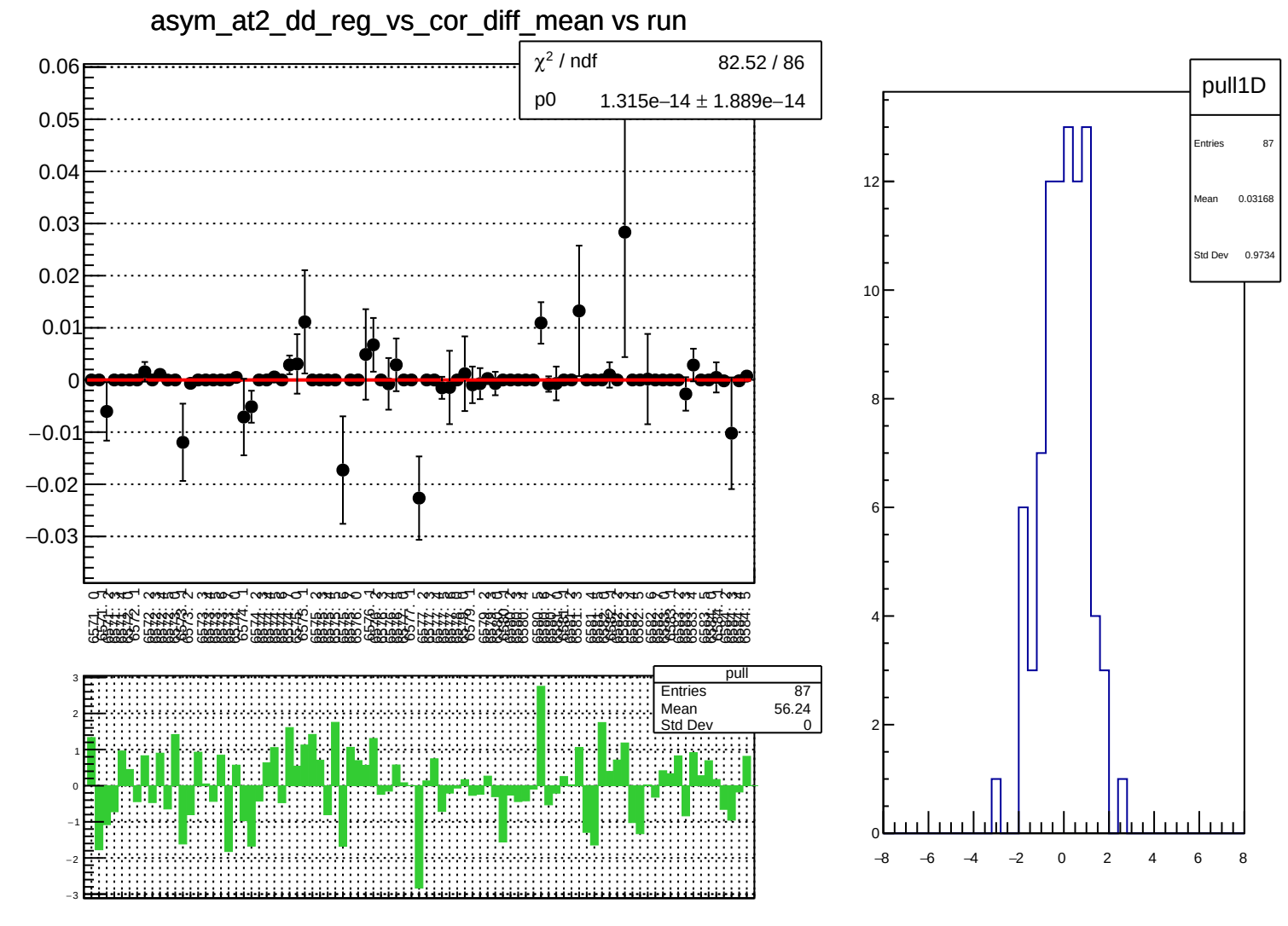

pull1D
Entries 87
Mean 0.006375
Std Dev 1.046

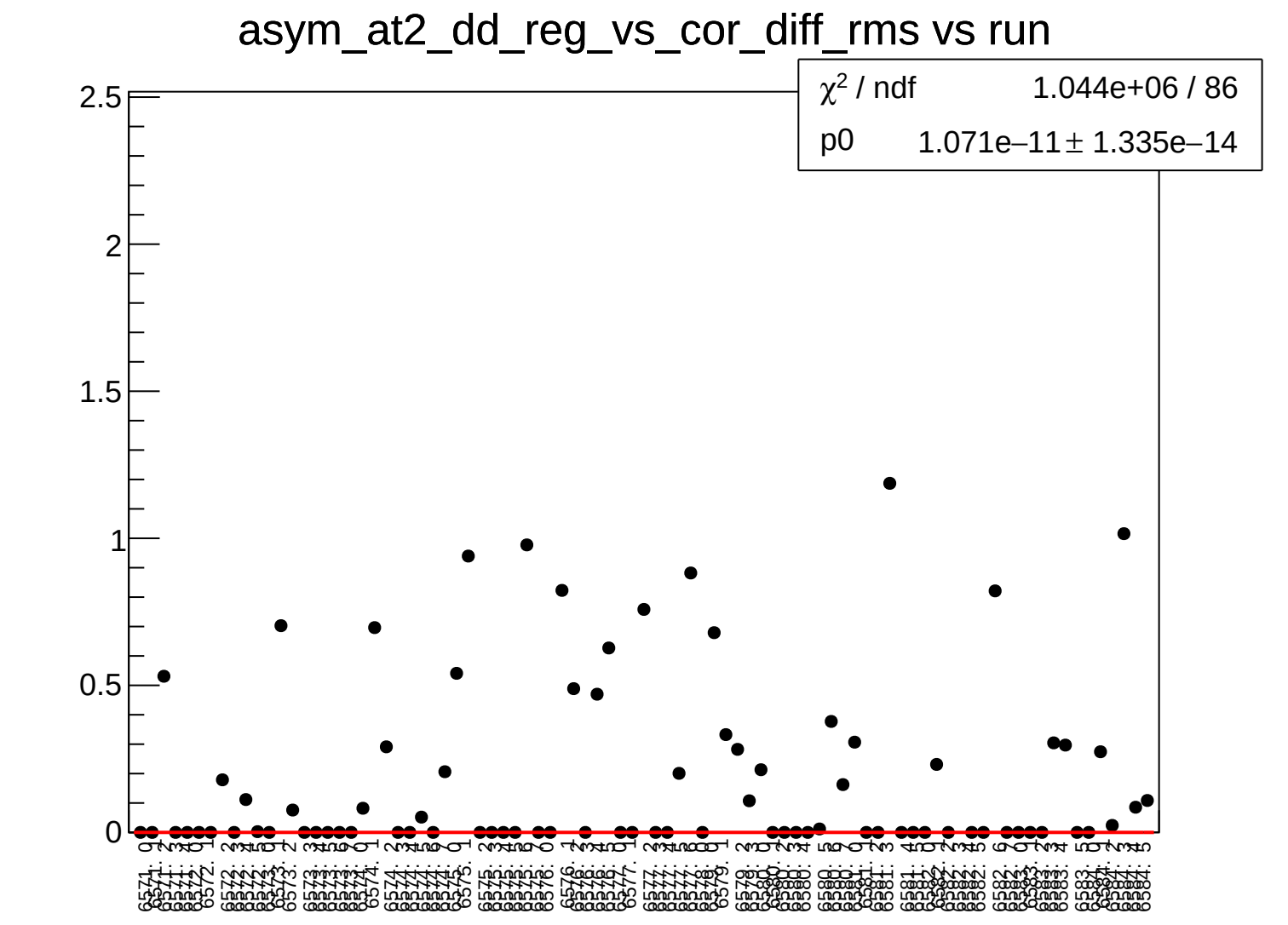

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.355e+04 / 86
p0 867.4 ± 0.6706
1100
1050
1000
950
900
850
800
750

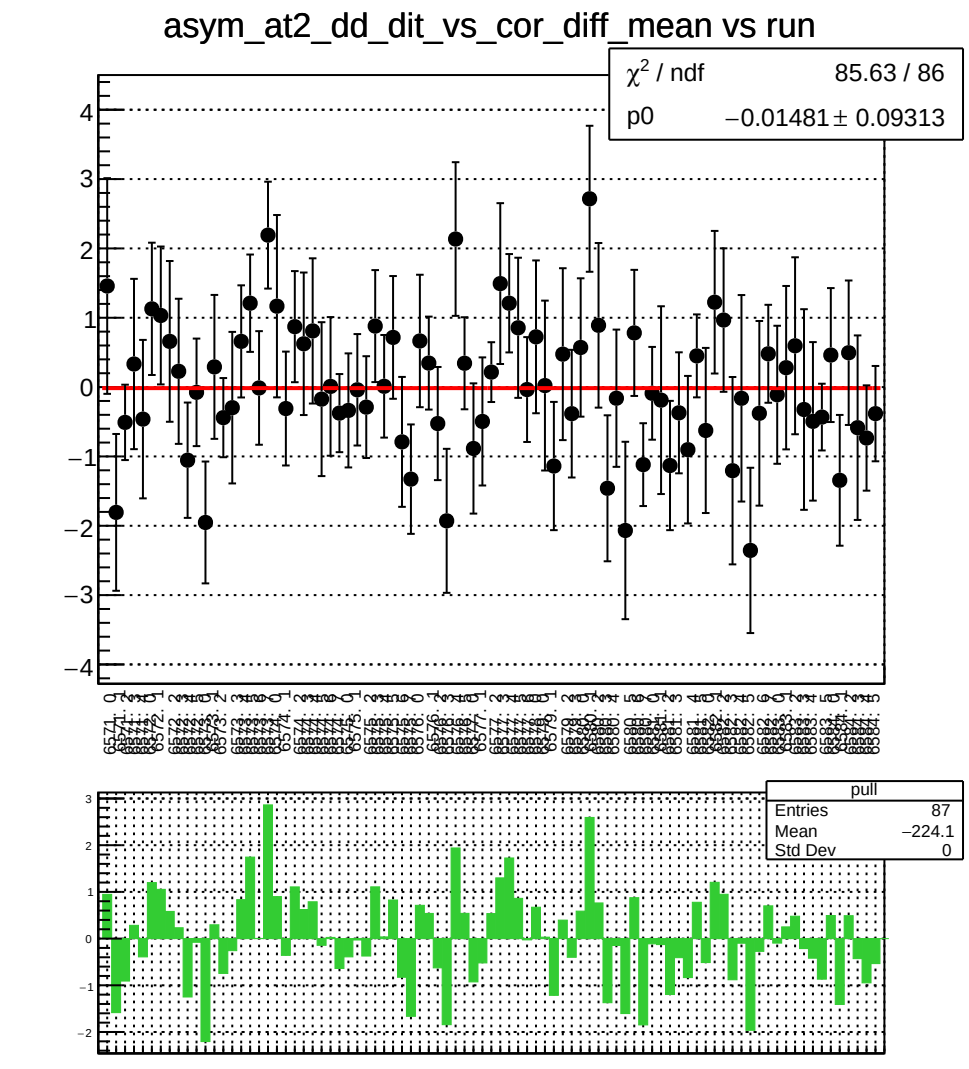

asym_at2_dd_mean vs run
χ² / ndf 107.6 / 86
p0 −4240 ± 2248
pull
Entries 87
Mean −275.1
Std Dev 0

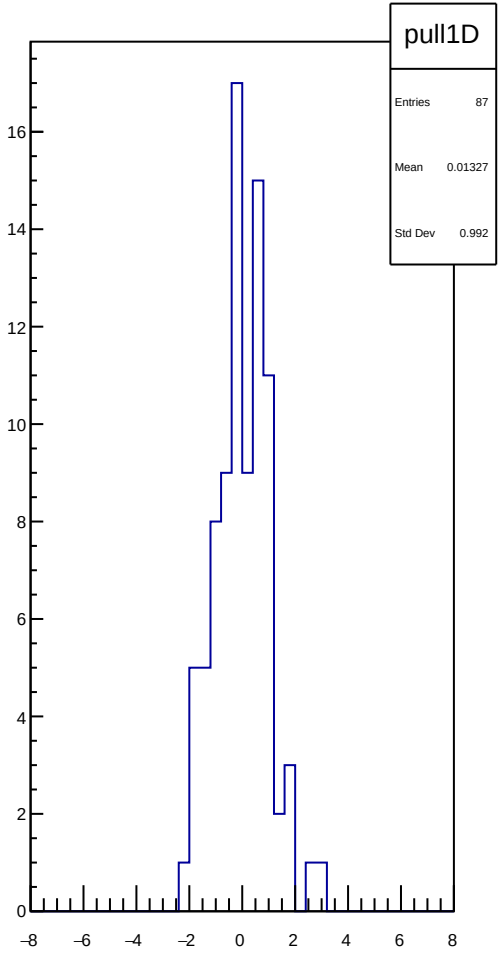

pull1D
Entries 87
Mean −0.002435
Std Dev 1.112

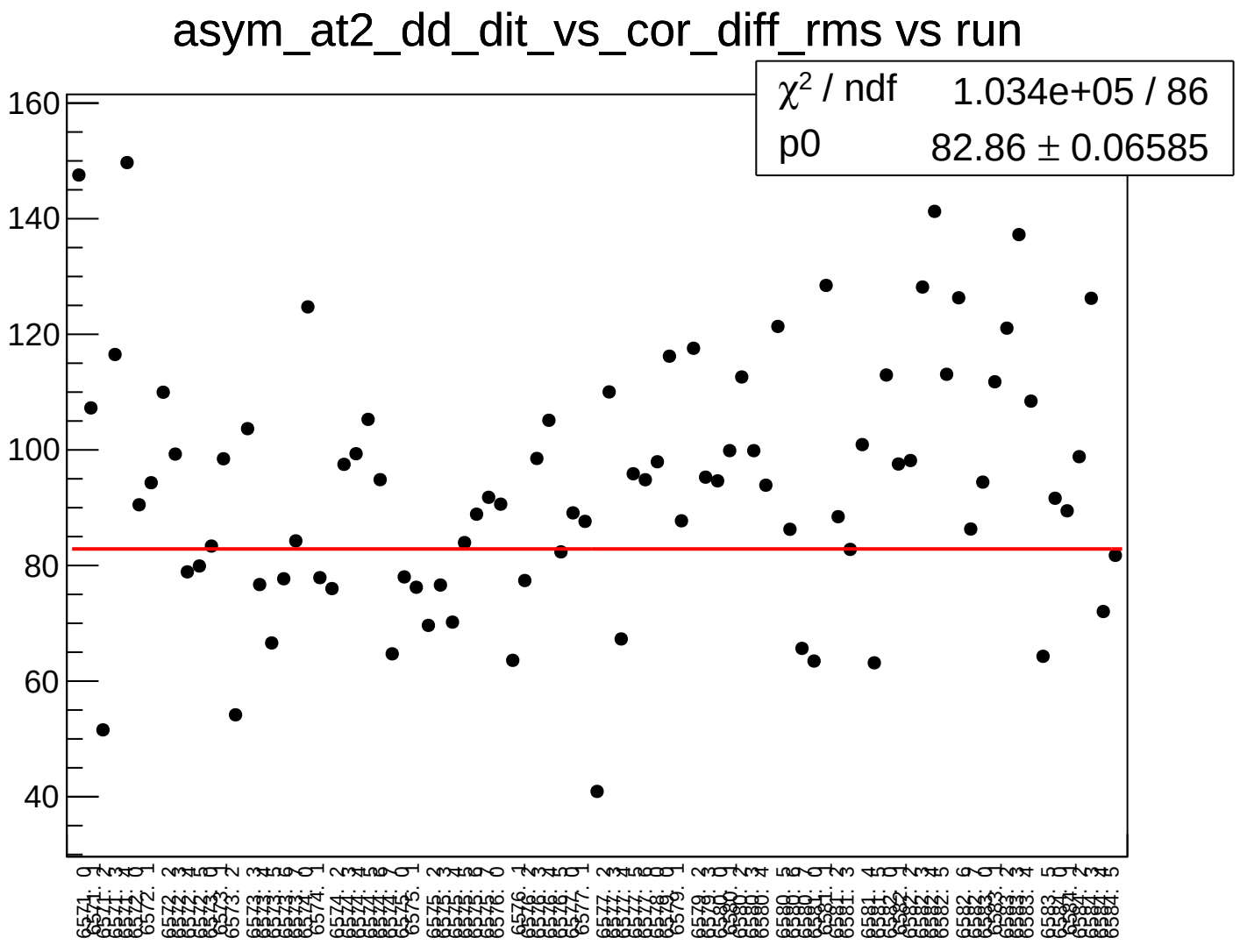

asym_at2_dd_rms vs run
χ² / ndf 520.8 / 86
p0 2064 ± 1.59
2200
2150
2100
2050
2000

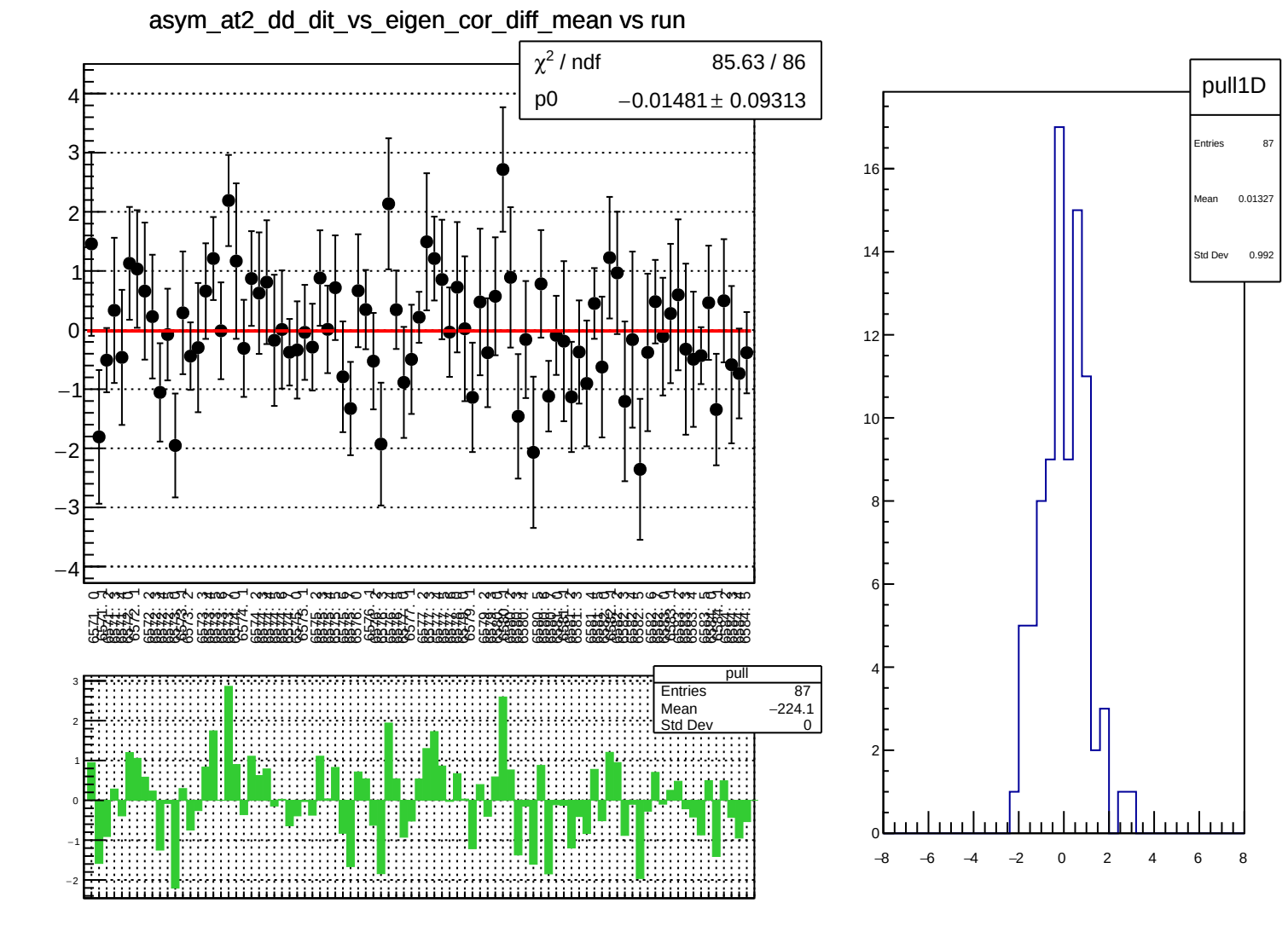

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.52 / 86
p0 1.315e−14 ± 1.889e−14
pull
Entries 87
Mean 56.24
Std Dev 0
pull1D
Entries 87
Mean 0.03168
Std Dev 0.9734

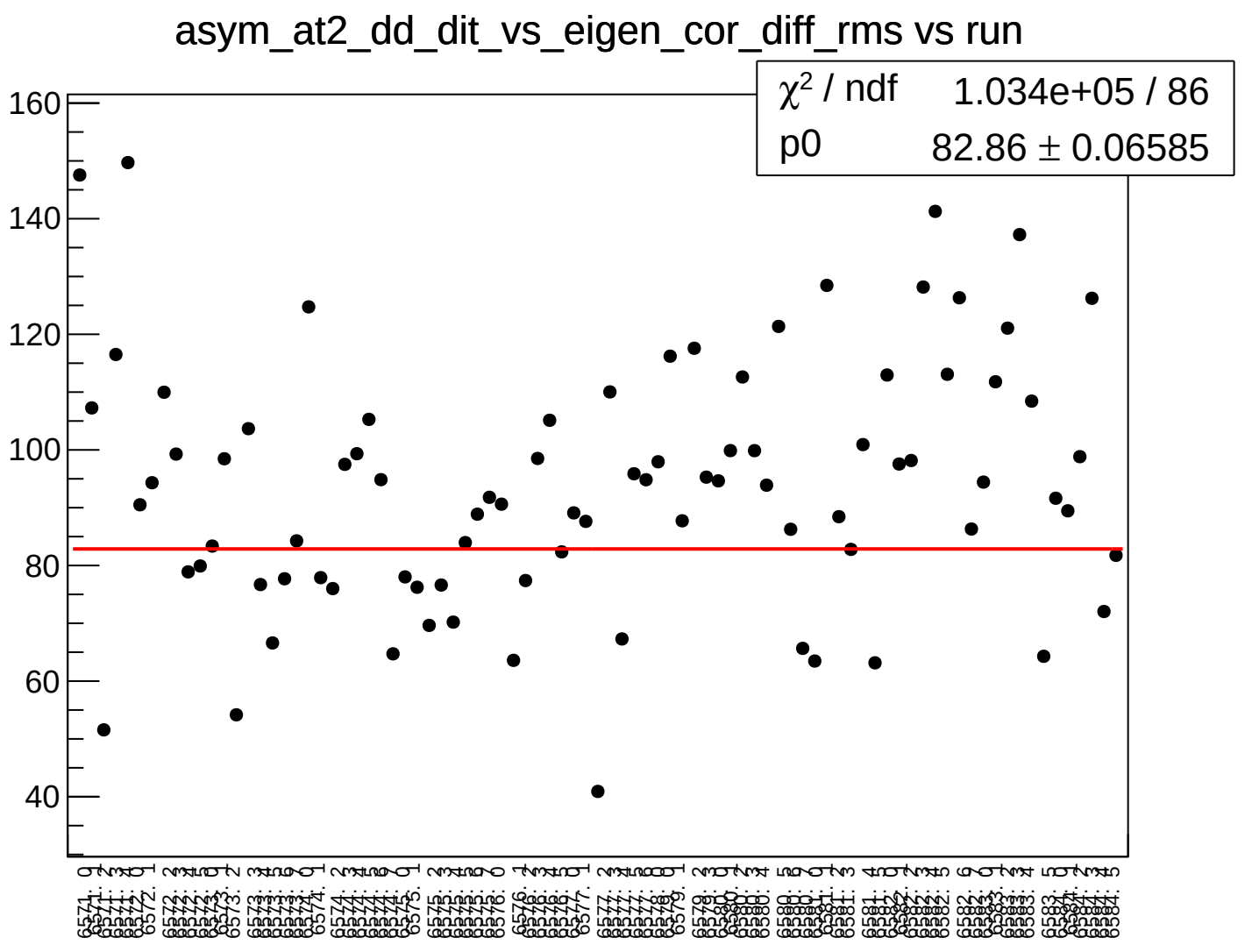

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.044e+06 / 86
p0 1.071e−11 ± 1.335e−14
2.5
2
1.5
1
0.5
0

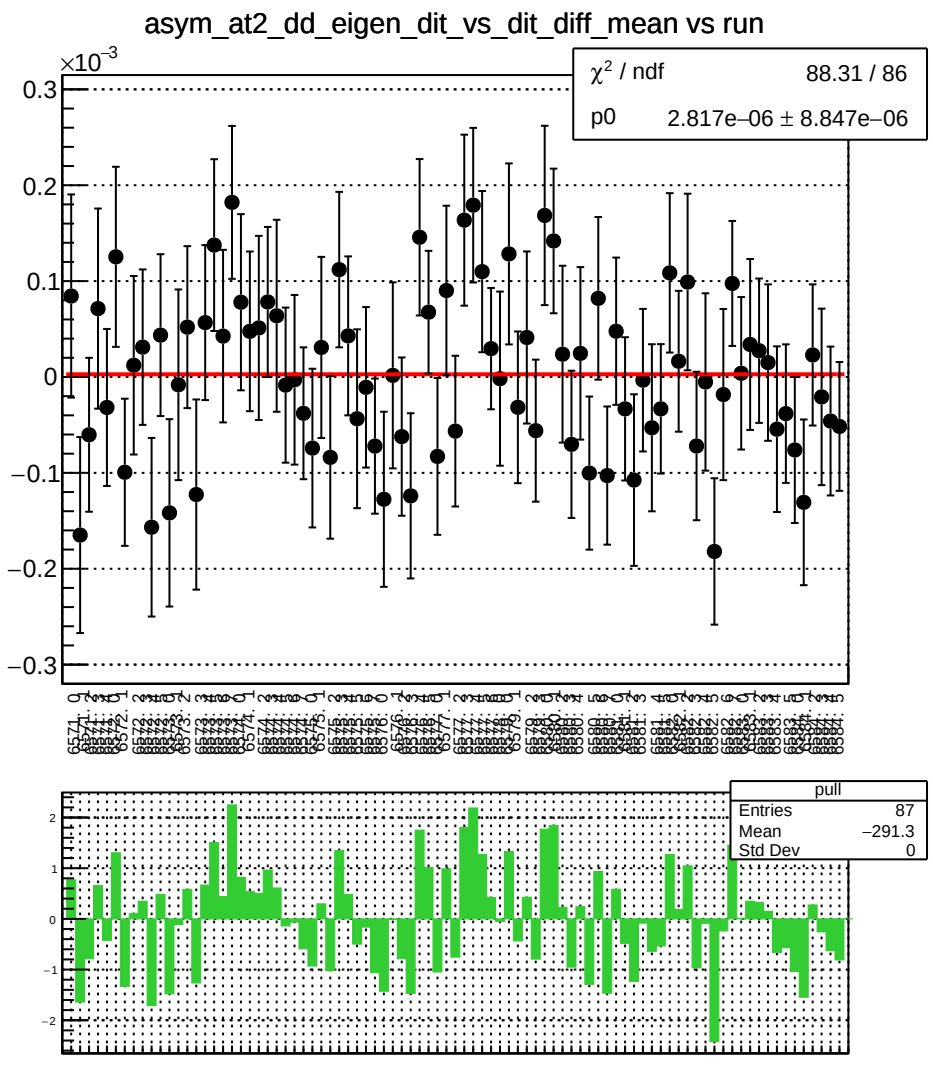

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.63 / 86
p0 −0.01481 ± 0.09313
pull
Entries 87
Mean −224.1
Std Dev 0

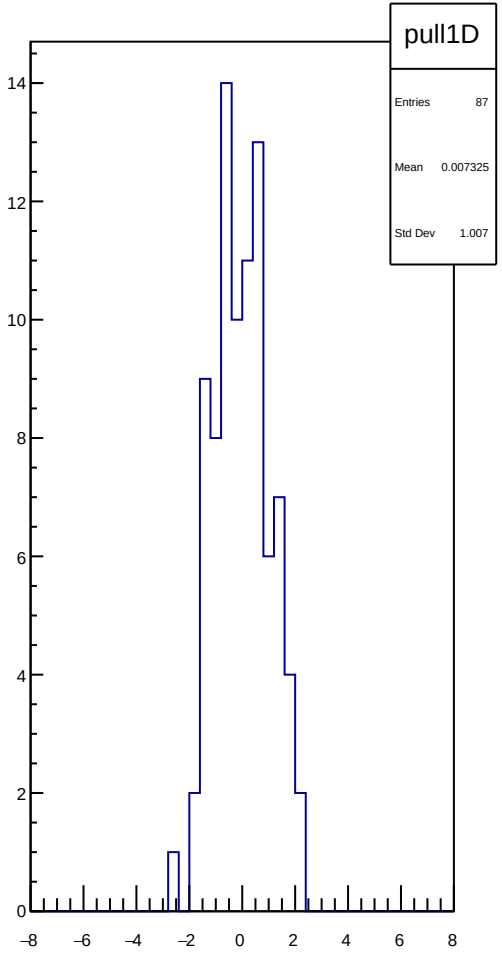

pull1D
Entries 87
Mean 0.01327
Std Dev 0.992

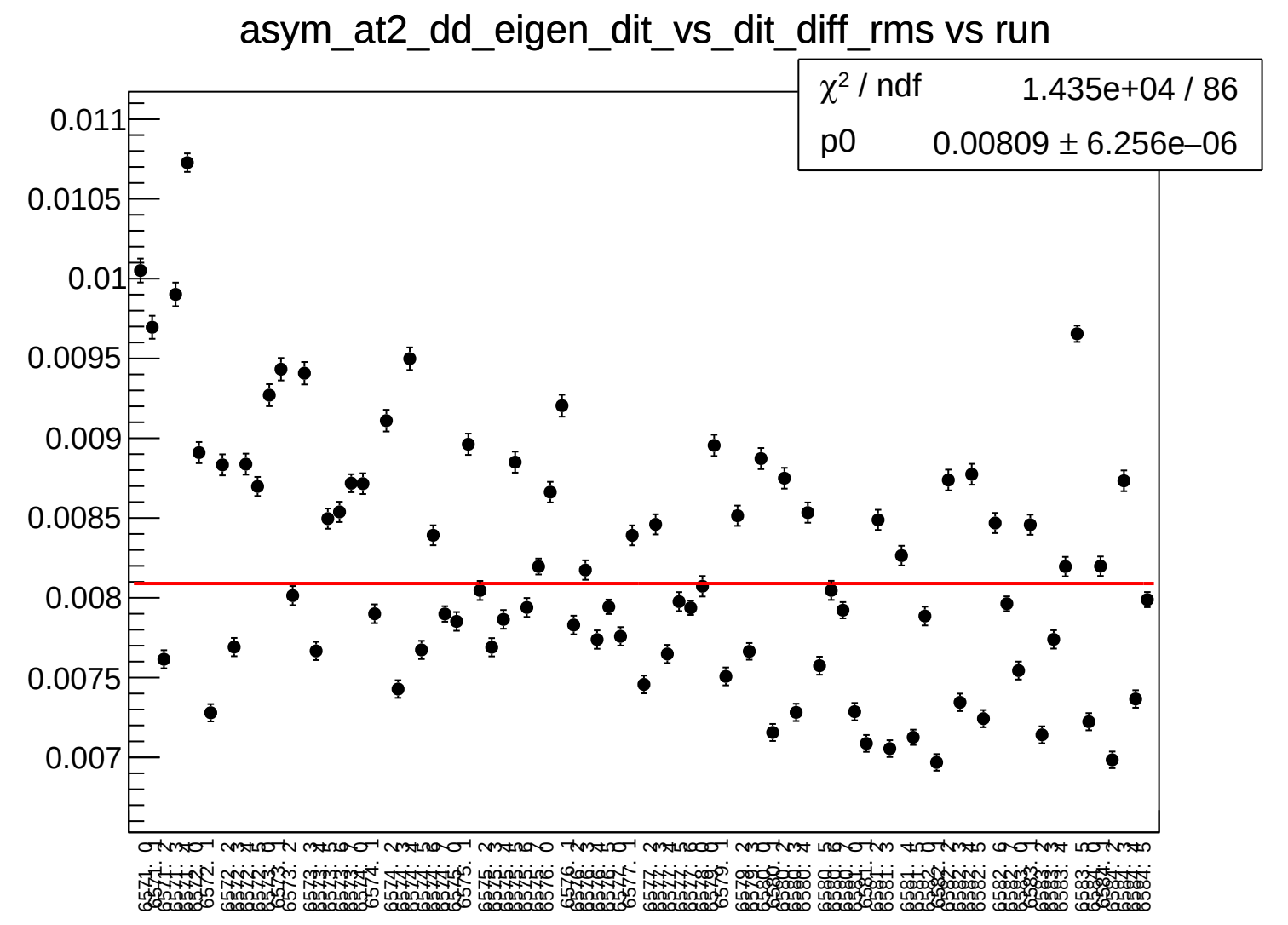

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 86
p0 82.86 ± 0.06585
160
140
120
100
80
60
40

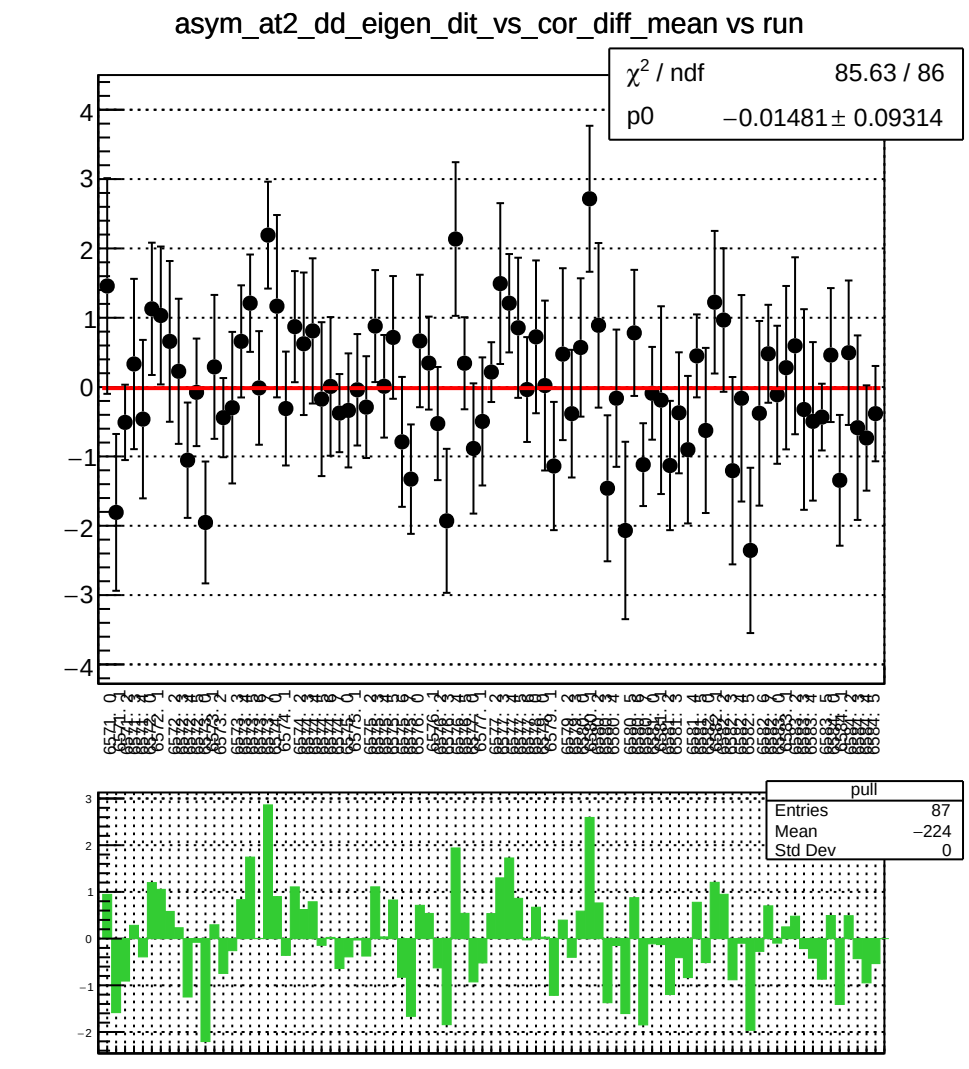

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.63 / 86
p0 −0.01481 ± 0.09313
pull
Entries 87
Mean −224.1
Std Dev 0
pull1D
Entries 87
Mean 0.01327
Std Dev 0.992

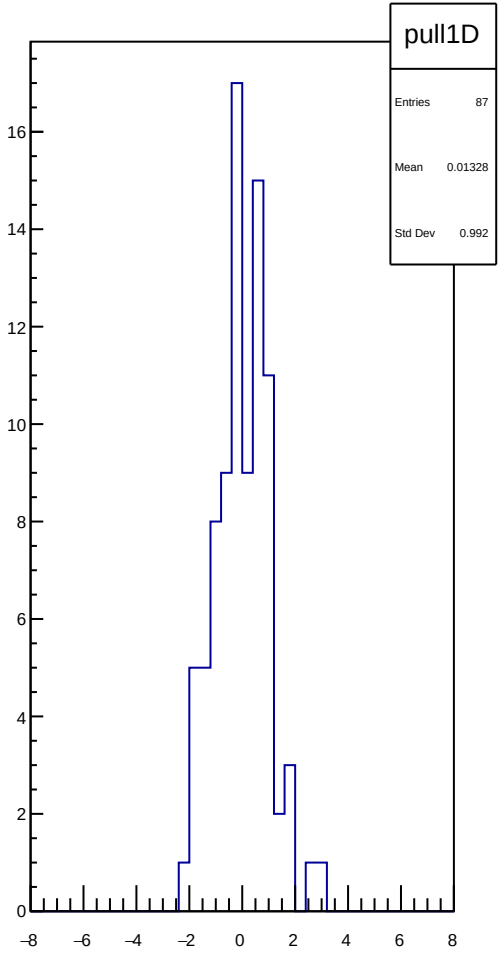

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 86
p0 82.86 ± 0.06585
160
140
120
100
80
60
40

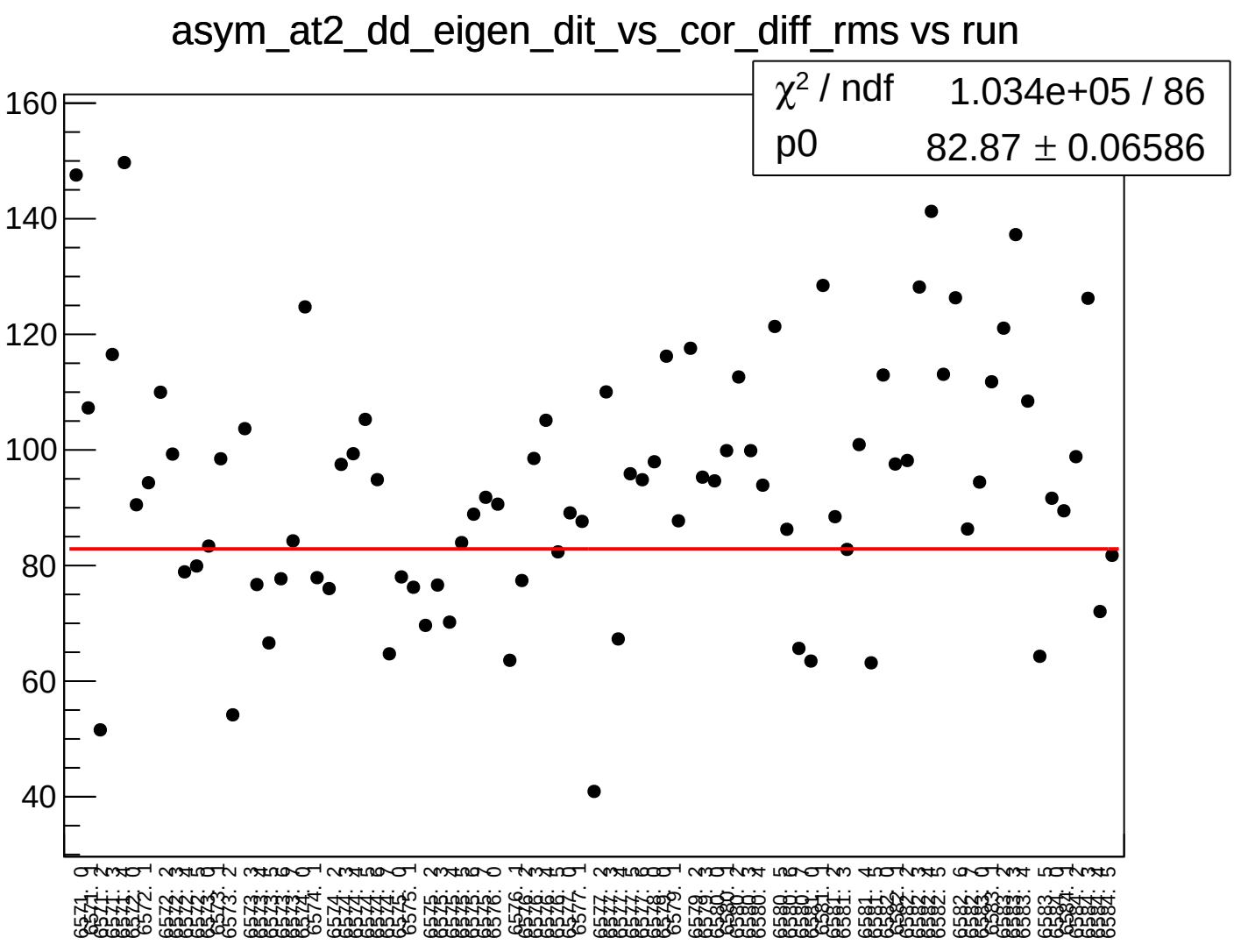

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.31 / 86
p0 2.817e−06 ± 8.847e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 87
Mean −291.3
Std Dev 0
2
1
0
−1
−2

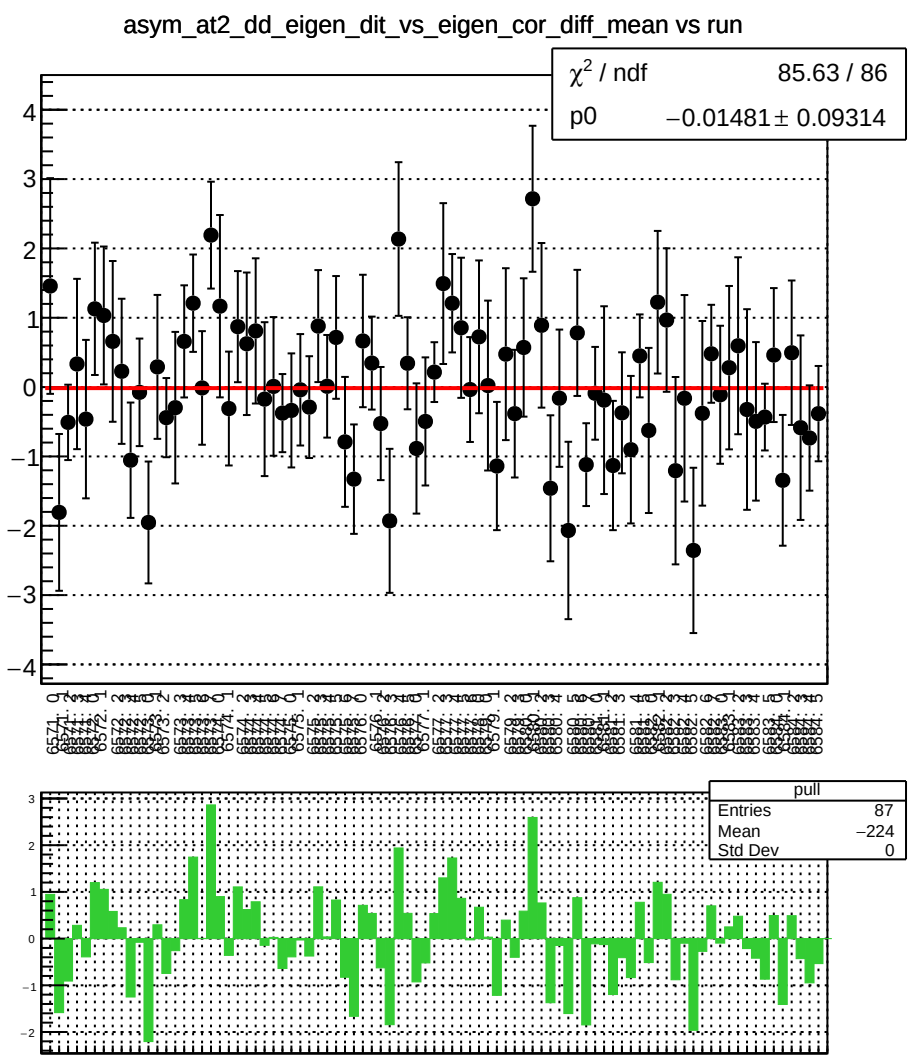

pull1D
Entries 87
Mean 0.007325
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

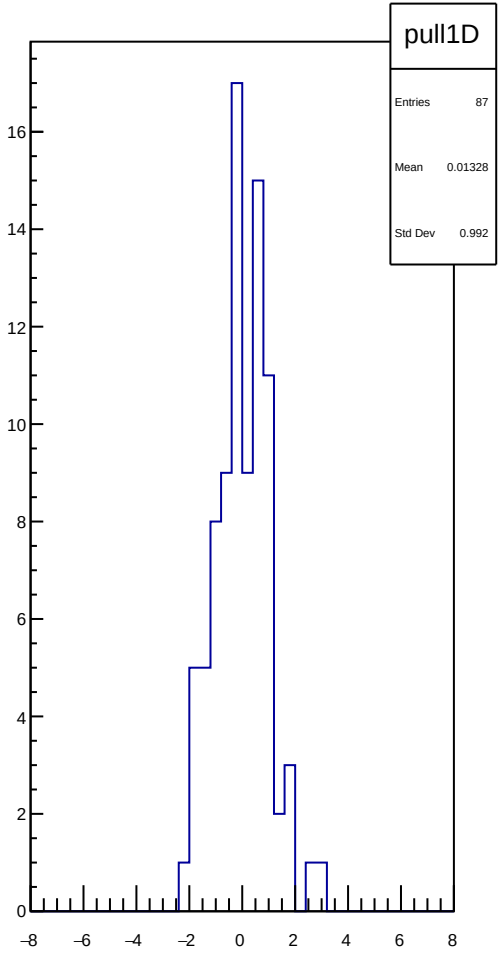

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.435e+04 / 86
p0 0.00809 ± 6.256e–06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

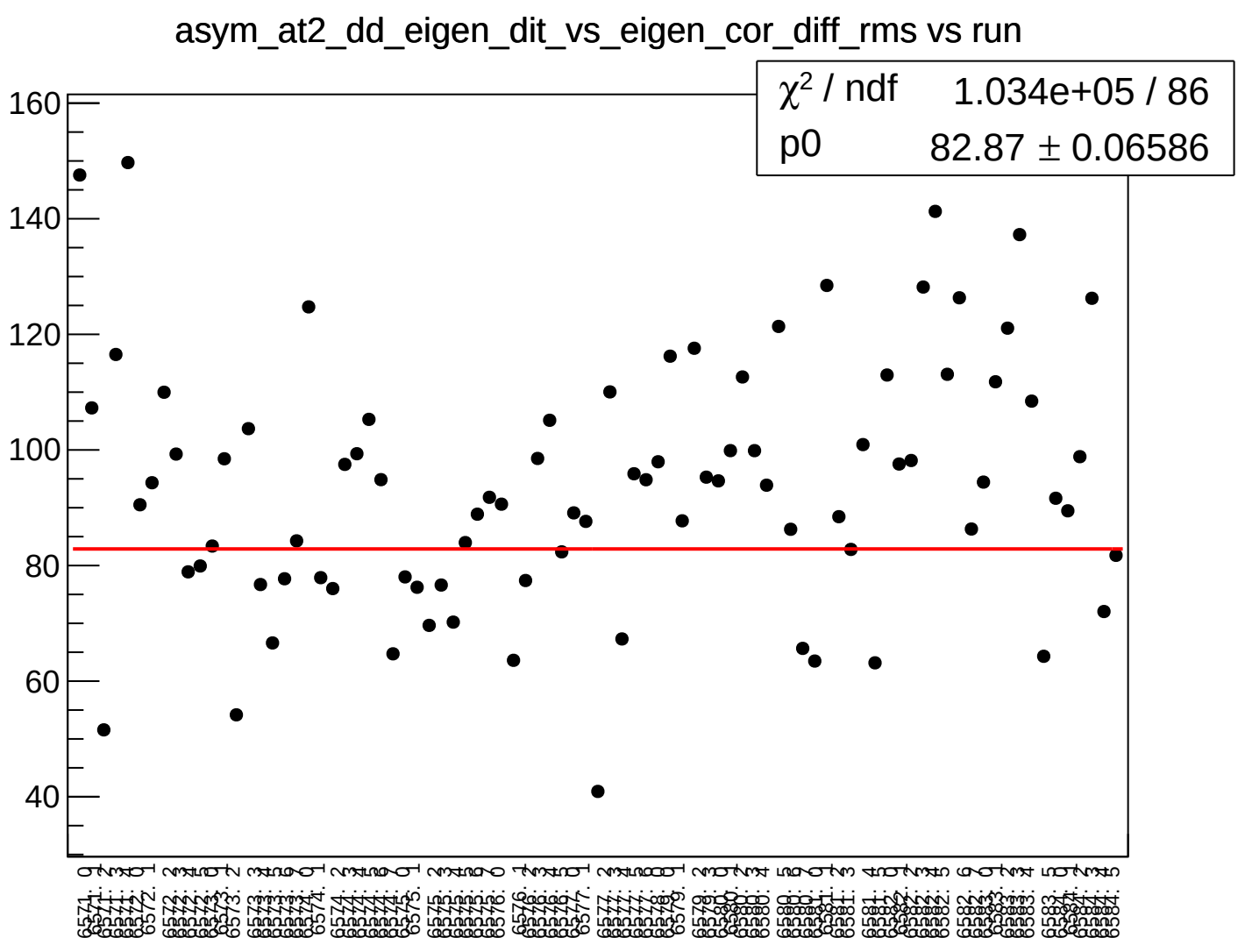

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.63 / 86
p0 −0.01481 ± 0.09314
pull
Entries 87
Mean −224
Std Dev 0

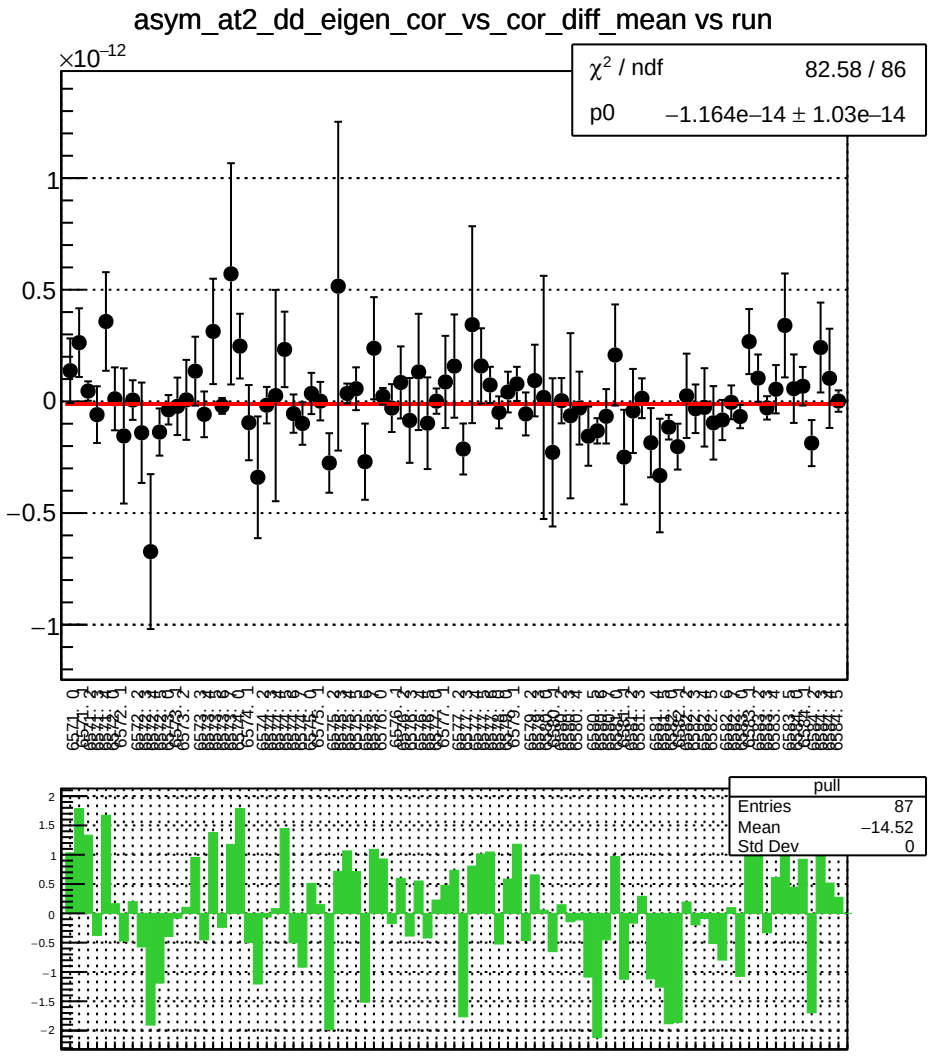

pull1D
Entries 87
Mean 0.01328
Std Dev 0.992

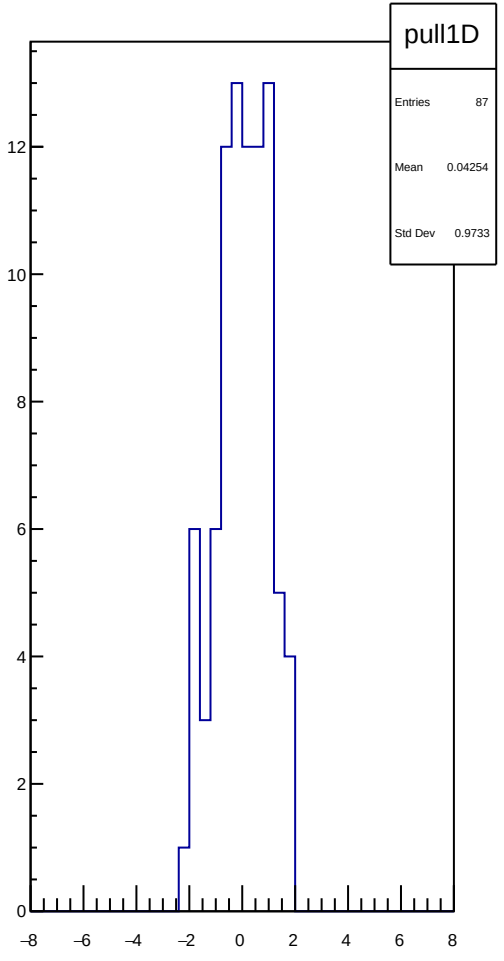

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 86
p0 82.87 ± 0.06586
160
140
120
100
80
60
40

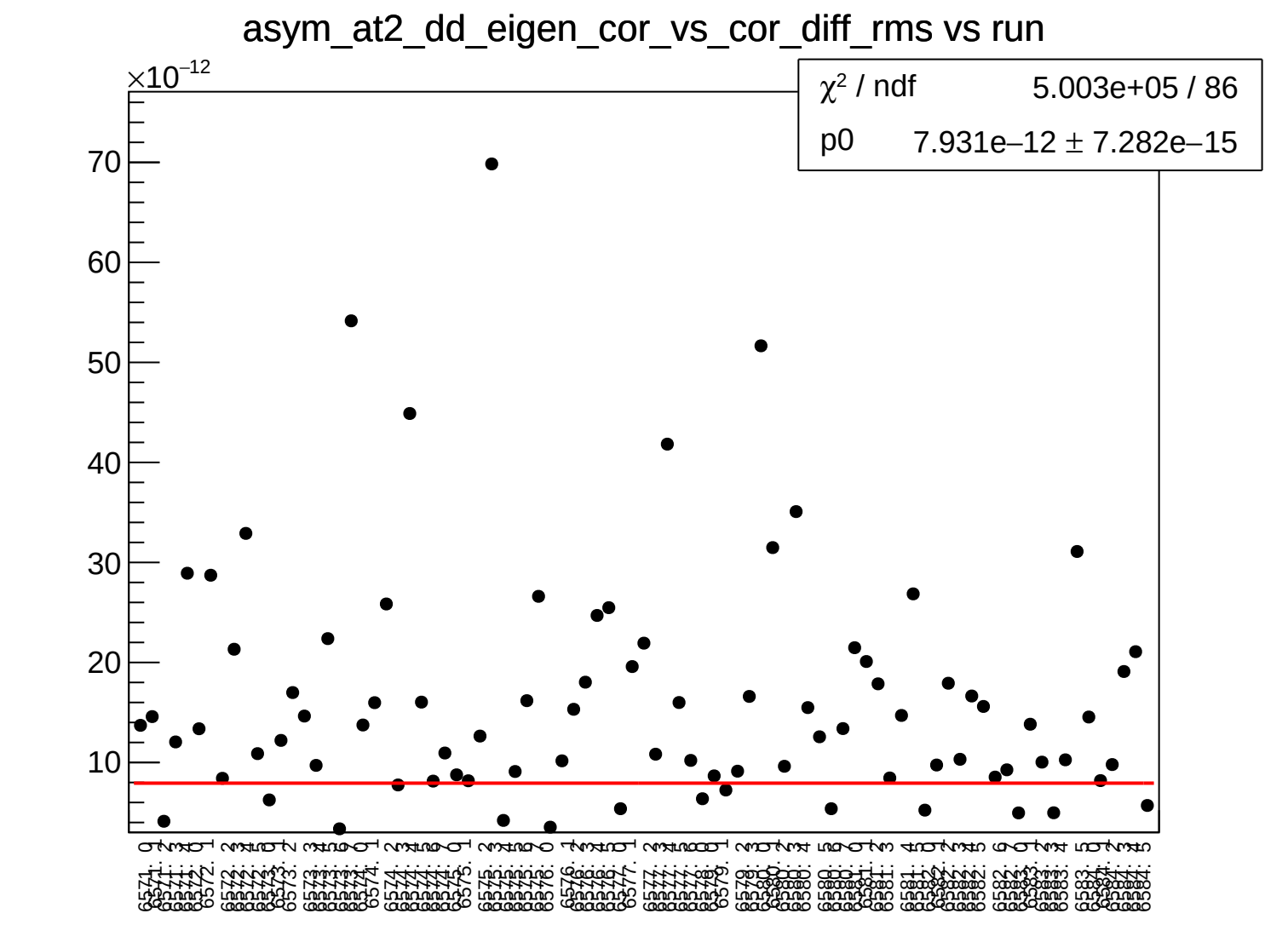

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.63 / 86
p0 −0.01481 ± 0.09314
pull
Entries 87
Mean −224
Std Dev 0

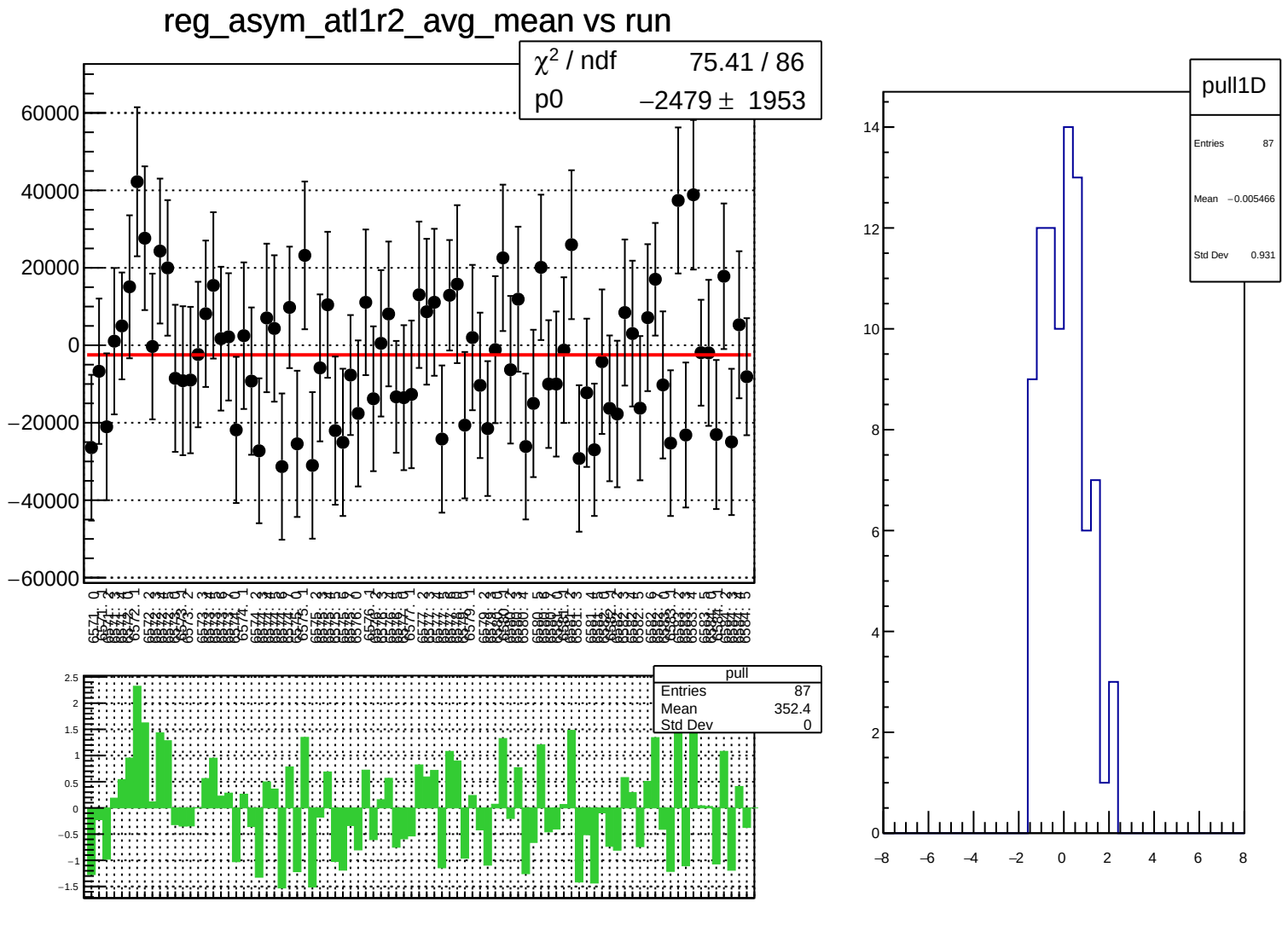

pull1D
Entries 87
Mean 0.01328
Std Dev 0.992

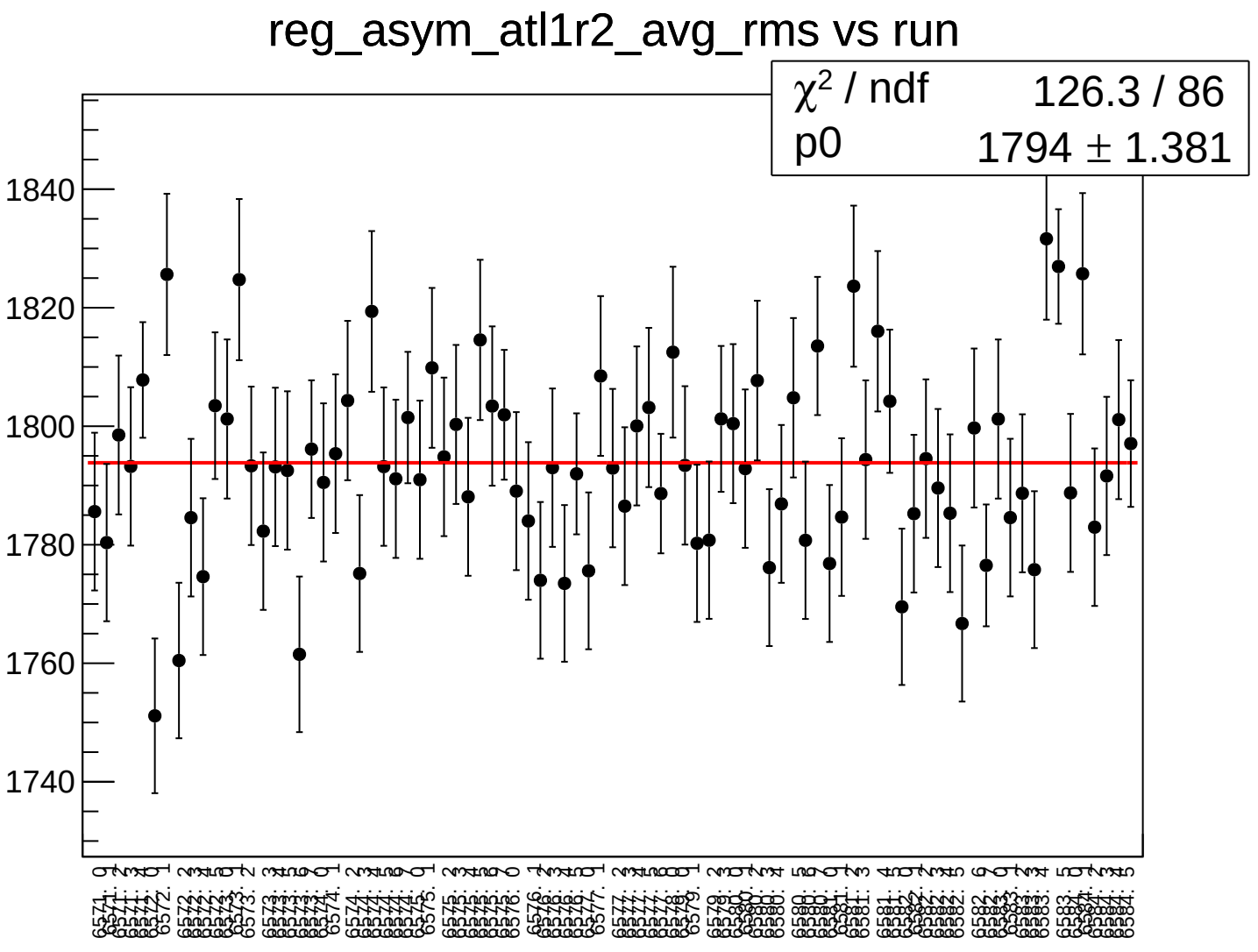

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 86
p0 82.87 ± 0.06586
160
140
120
100
80
60
40

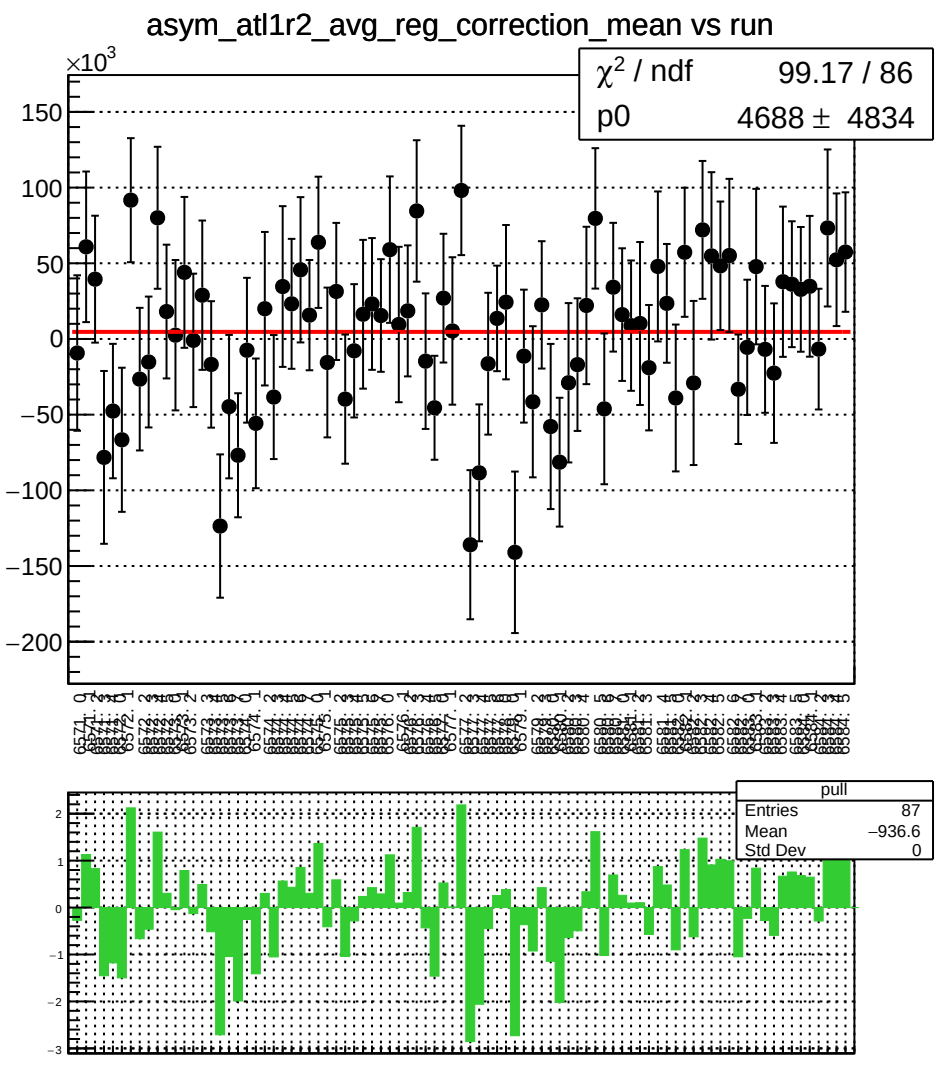

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.58 / 86
p0 −1.164e−14 ± 1.03e−14
pull
Entries 87
Mean −14.52
Std Dev 0

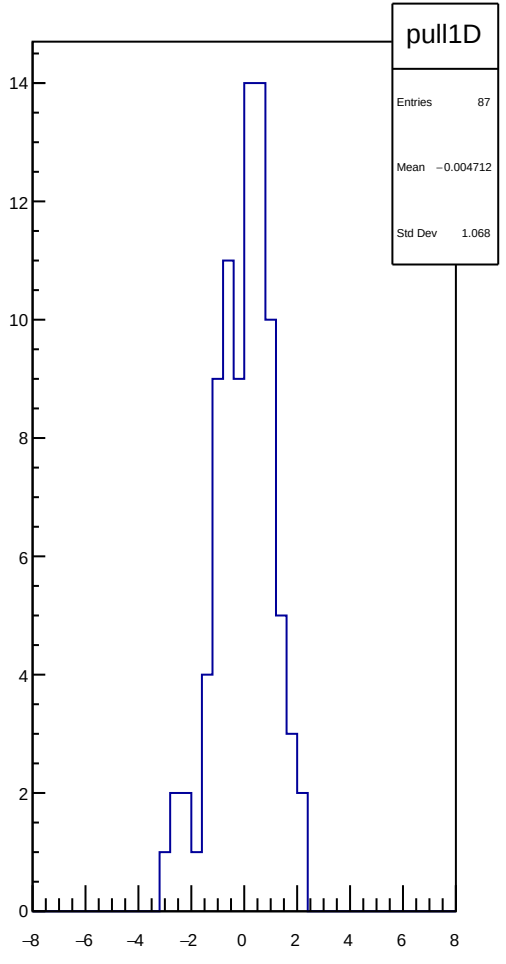

pull1D
Entries 87
Mean 0.04254
Std Dev 0.9733

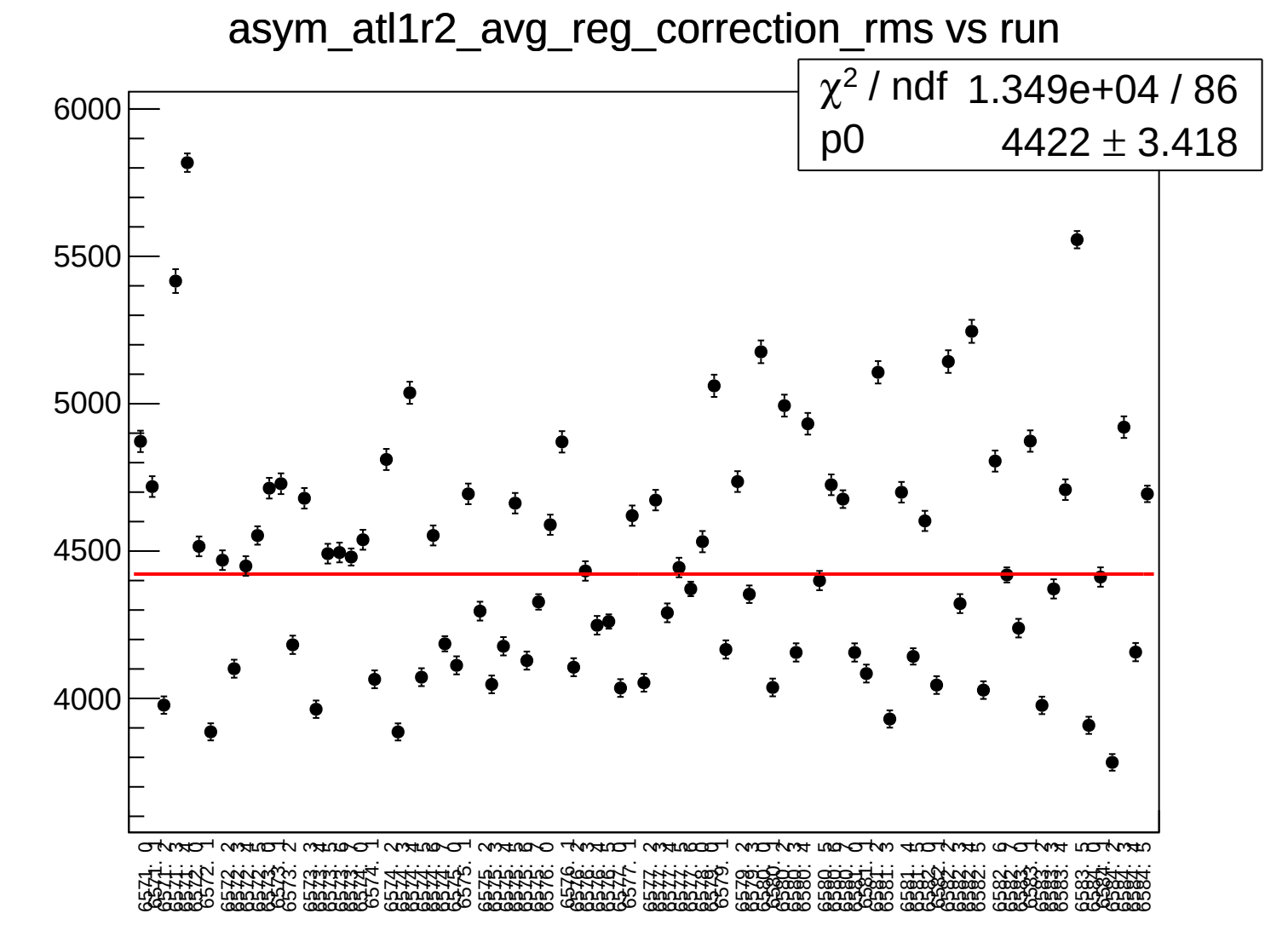

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.003e+05 / 86
p0 7.931e−12 ± 7.282e−15
70
60
50
40
30
20
10

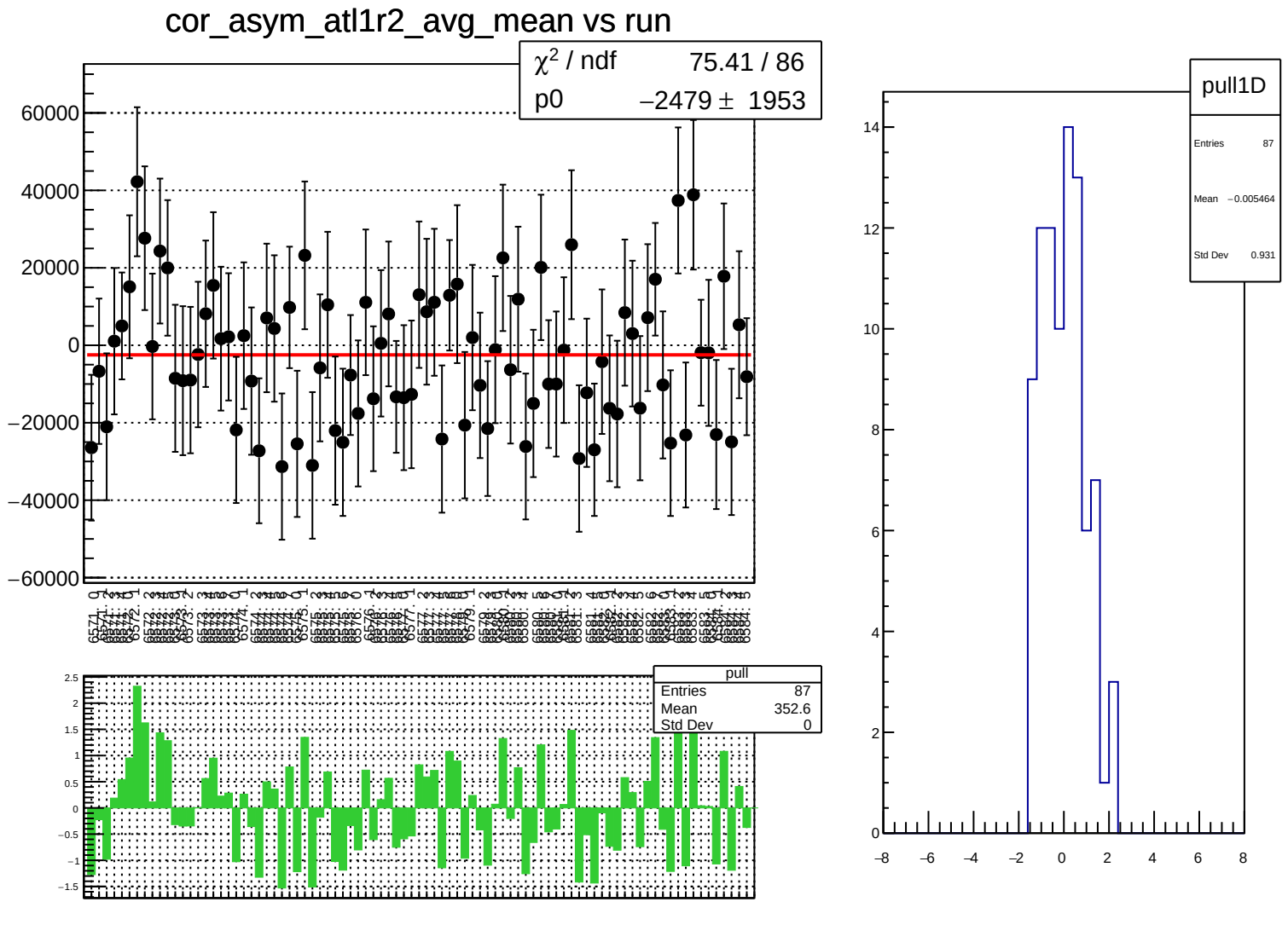

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 75.41 / 86
p0 −2479 ± 1953
pull
Entries 87
Mean 352.4
Std Dev 0
pull1D
Entries 87
Mean −0.005466
Std Dev 0.931

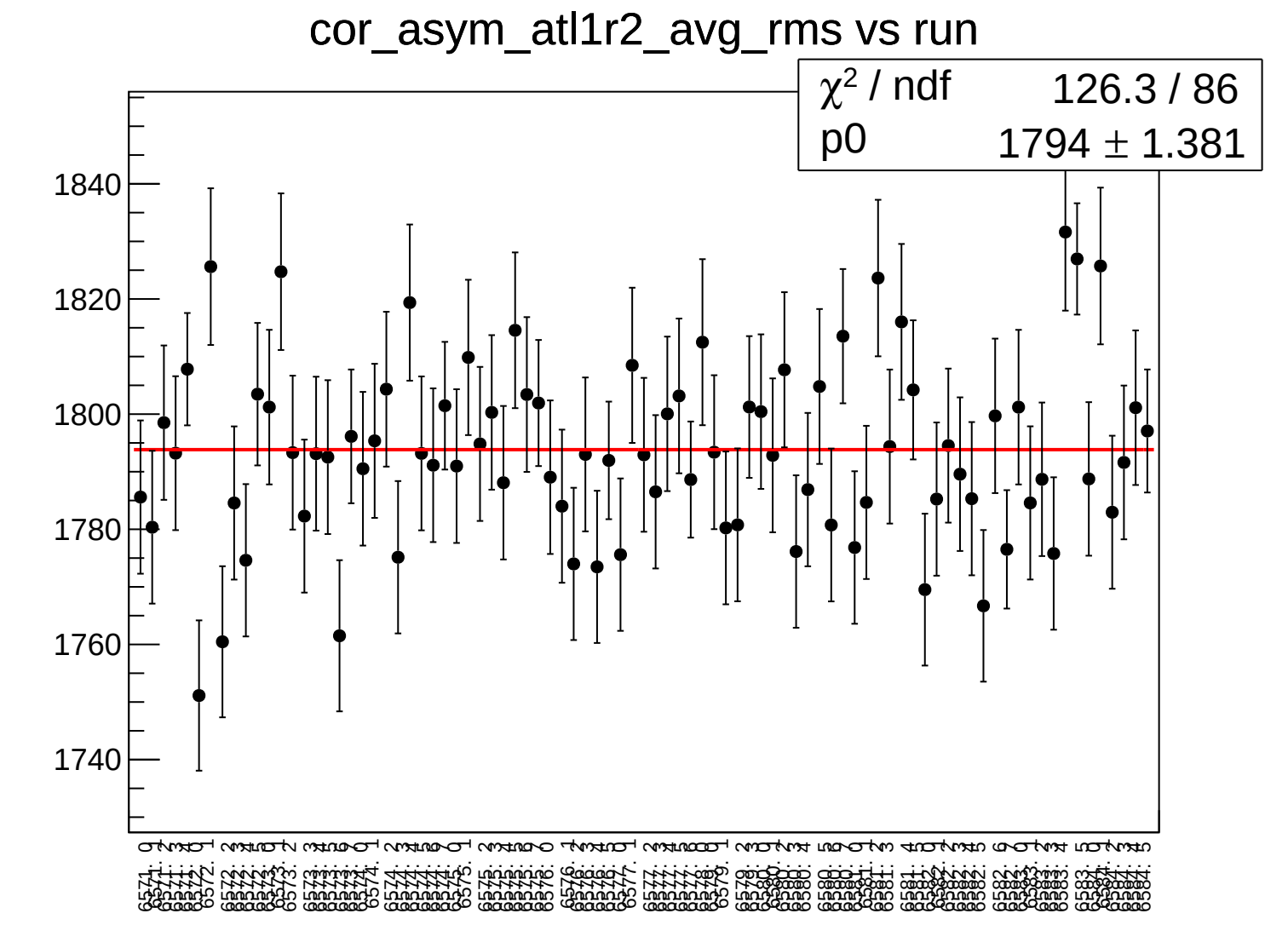

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 126.3 / 86
p0 1794 ± 1.381
1840
1820
1800
1780
1760
1740

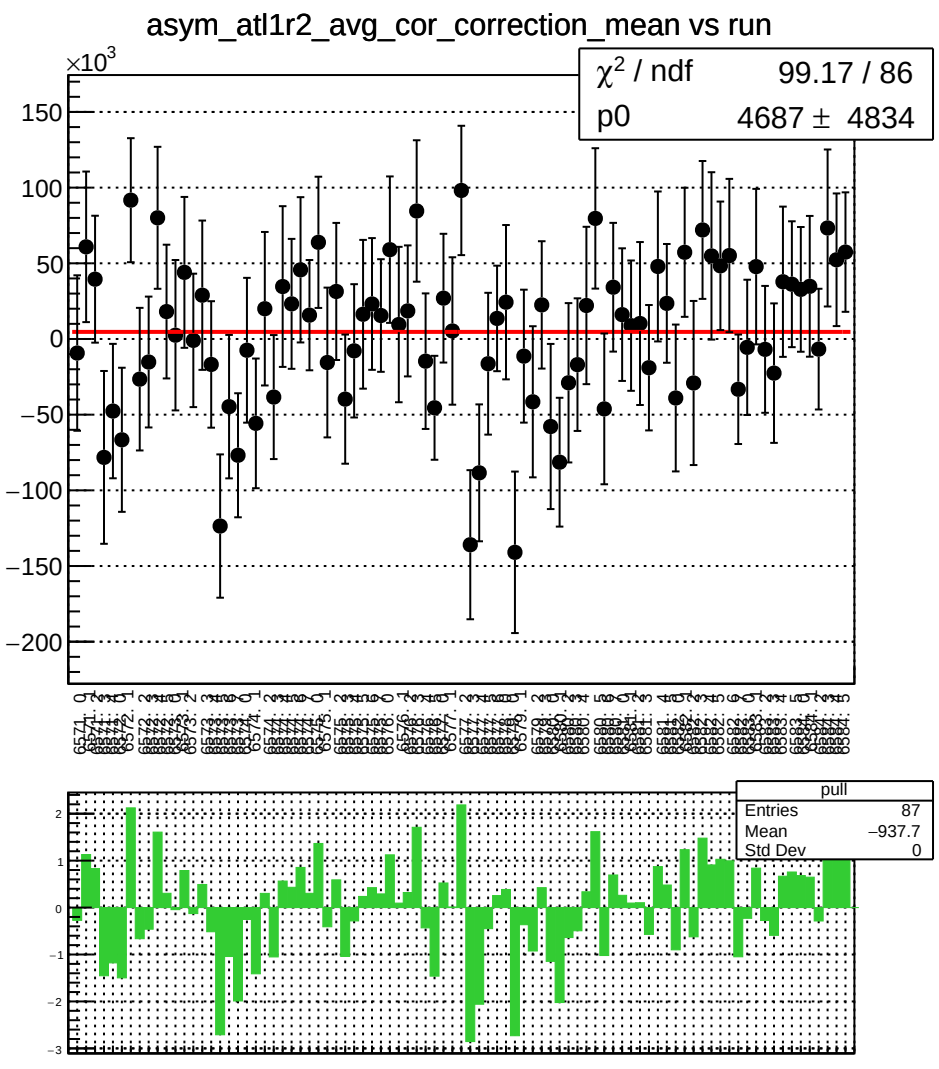

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 99.17 / 86
p0 4688 ± 4834
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −936.6
Std Dev 0
2
1
0
−1
−2
−3

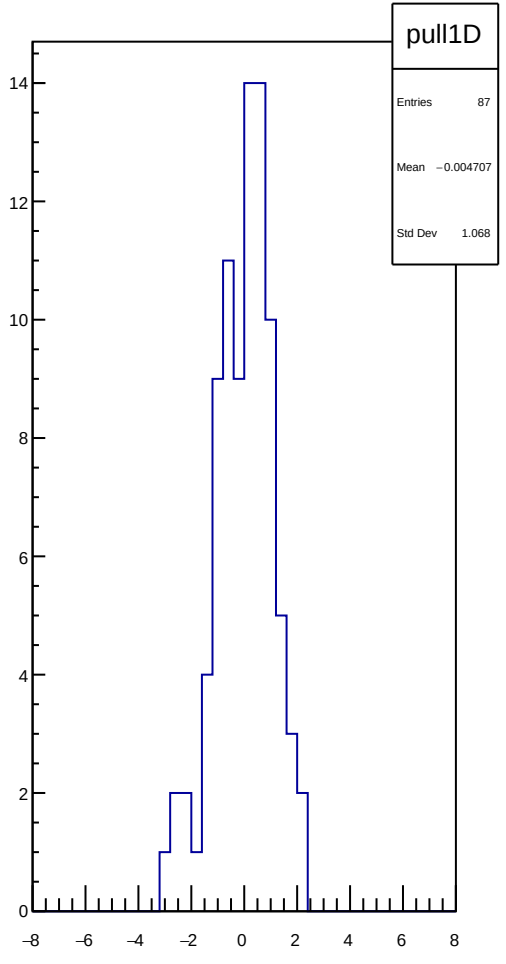

pull1D
Entries 87
Mean −0.004712
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

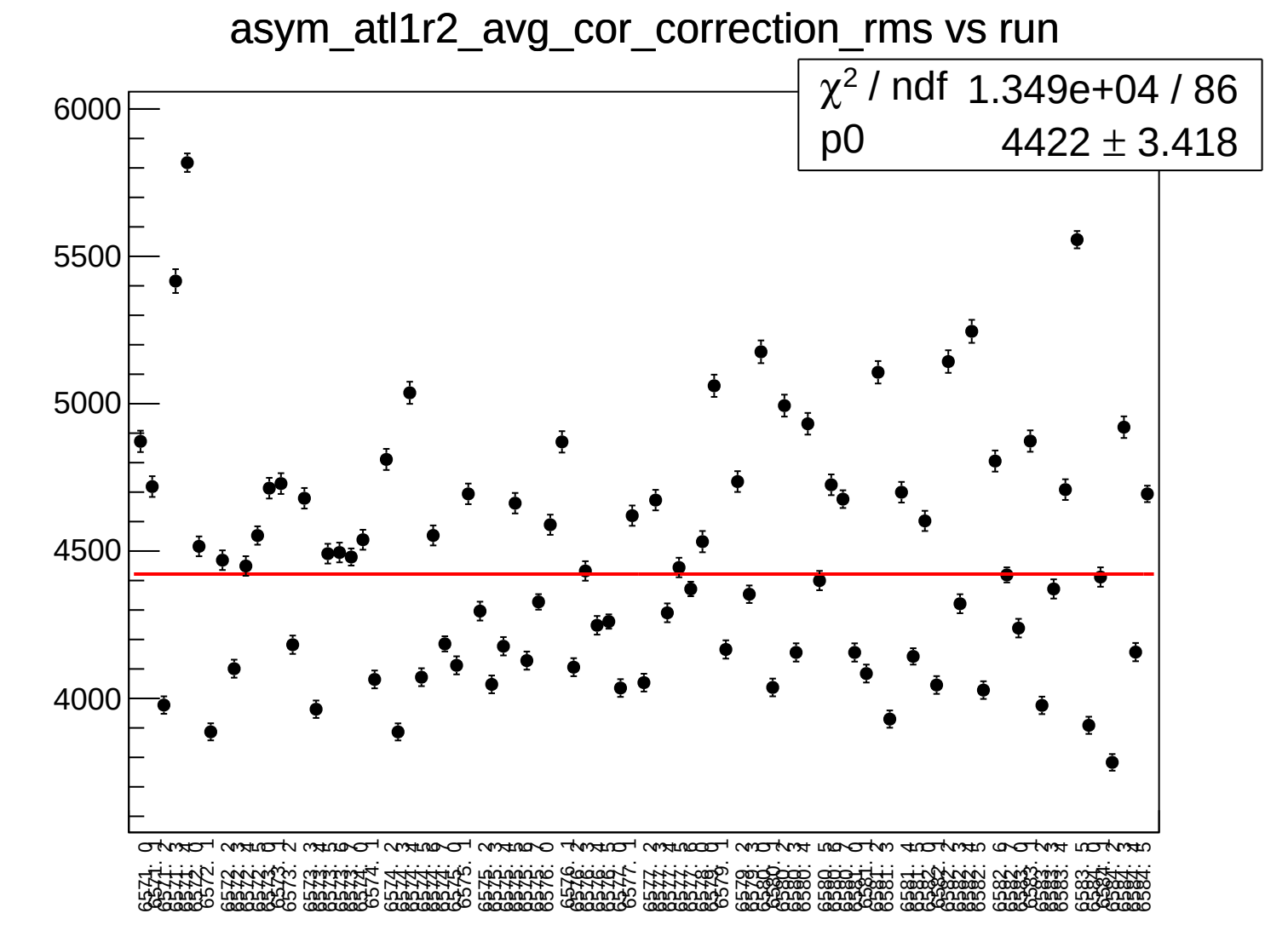

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.349e+04 / 86
p0 4422 ± 3.418
6000
5500
5000
4500
4000

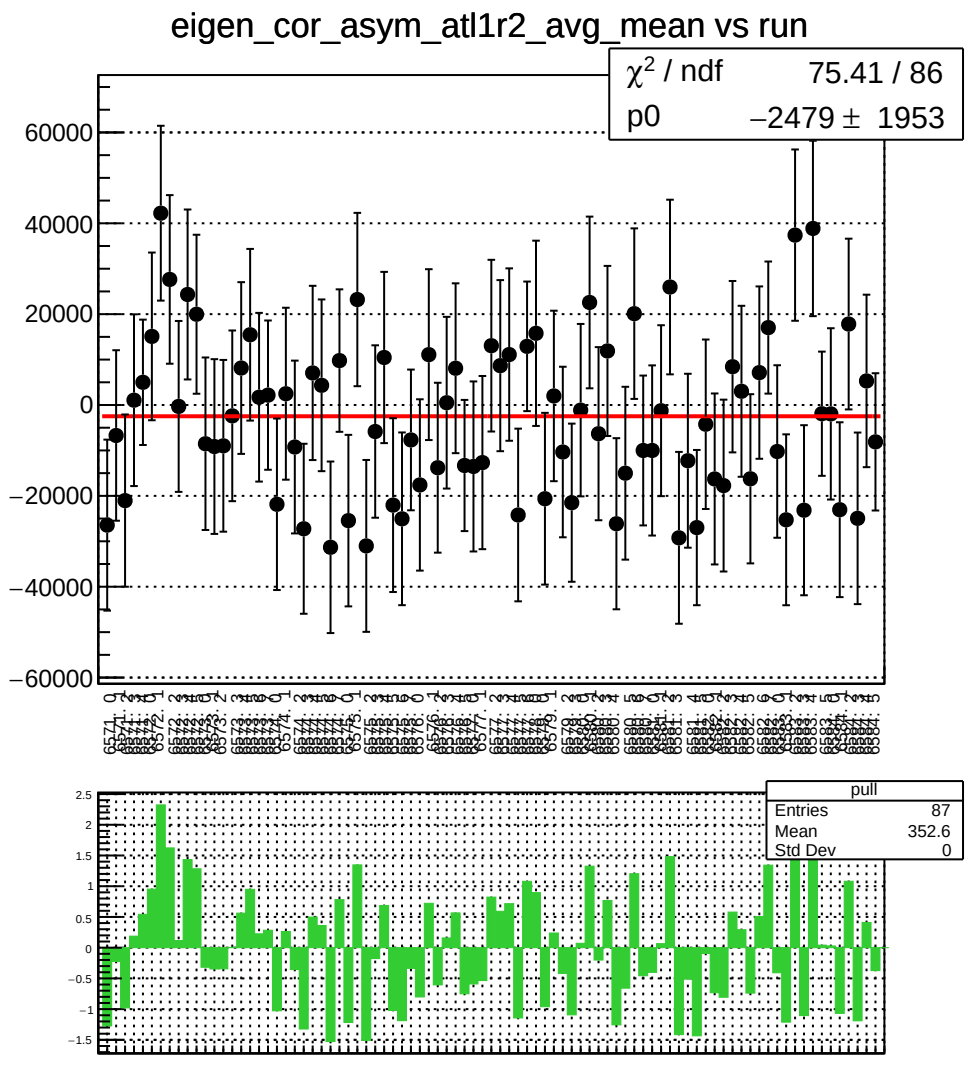

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 75.41 / 86
p0 −2479 ± 1953
pull
Entries 87
Mean 352.6
Std Dev 0
pull1D
Entries 87
Mean −0.005464
Std Dev 0.931

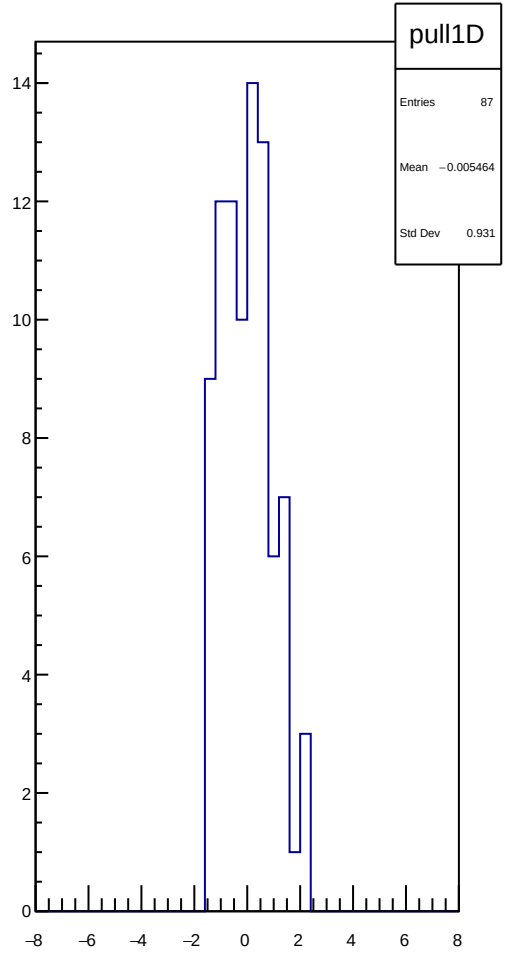

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 126.3 / 86
p0 1794 ± 1.381
1840
1820
1800
1780
1760
1740

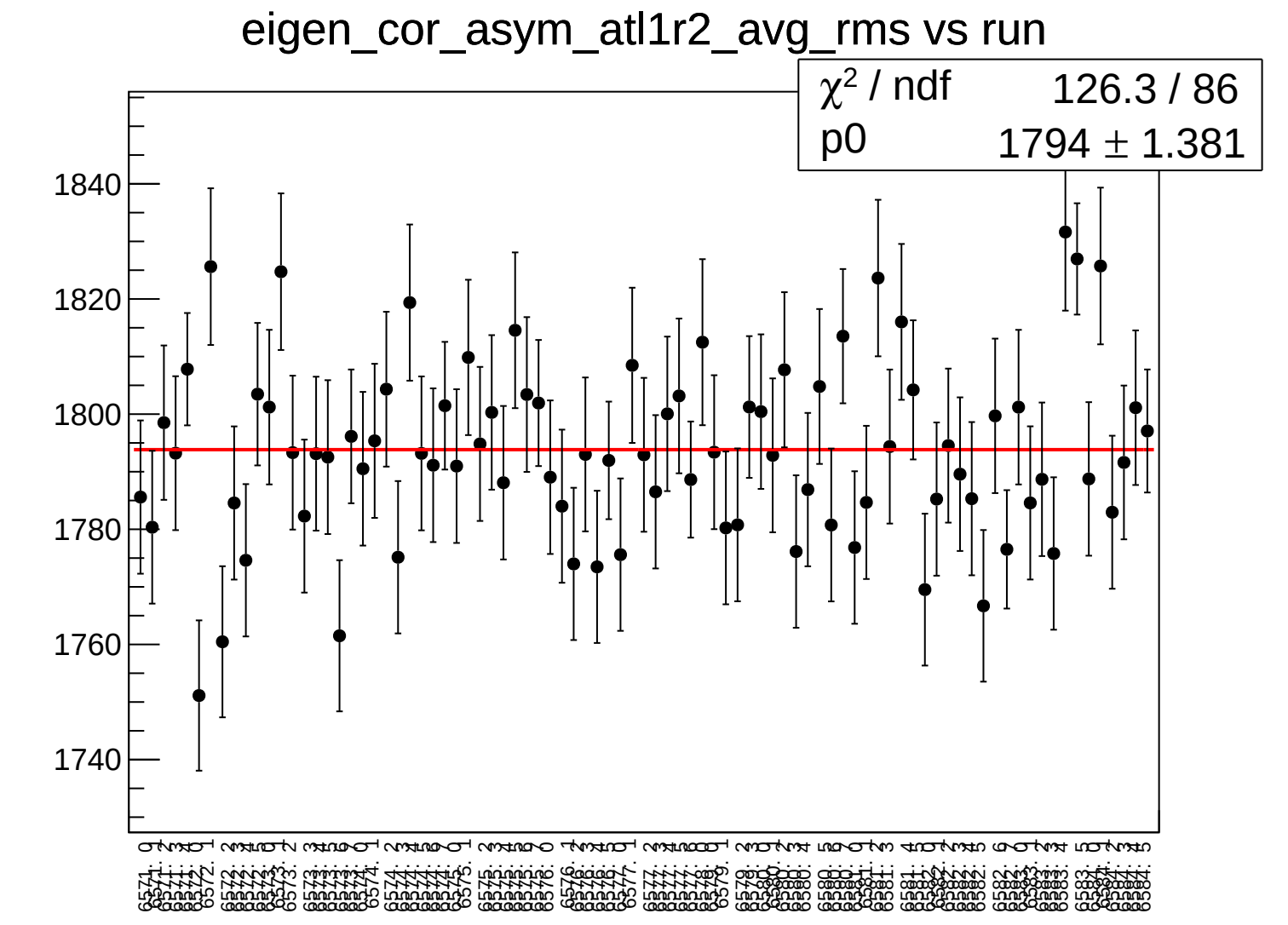

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 99.17 / 86
p0 4687 ± 4834
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −937.7
Std Dev 0
2
1
0
−1
−2
−3

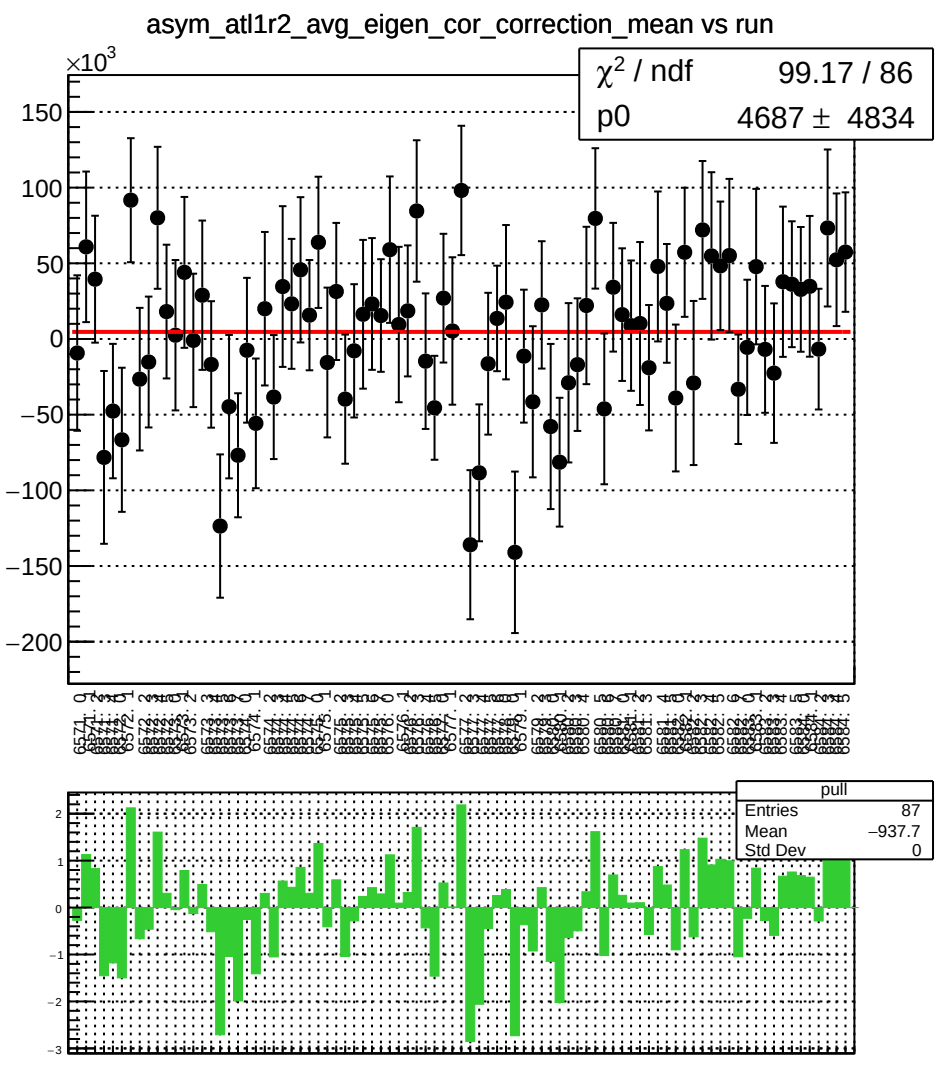

pull1D
Entries 87
Mean −0.004707
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

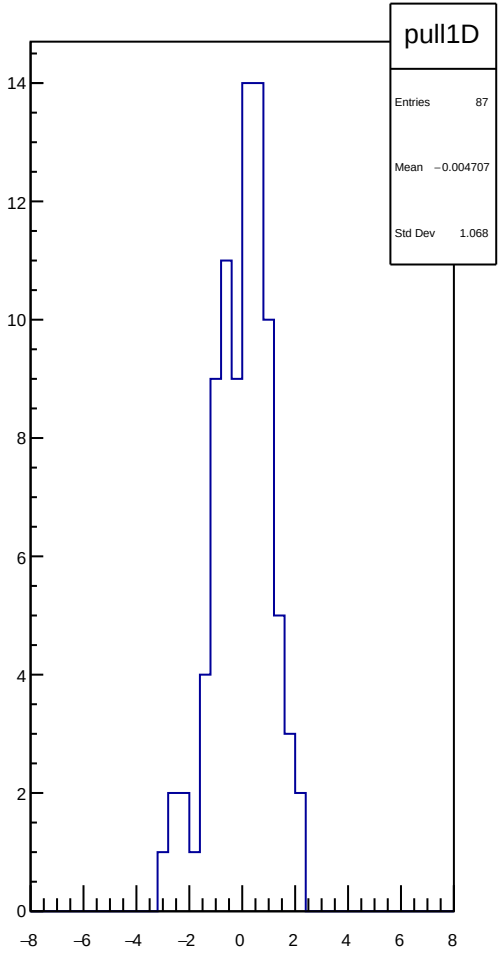

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.349e+04 / 86
p0 4422 ± 3.418
6000
5500
5000
4500
4000

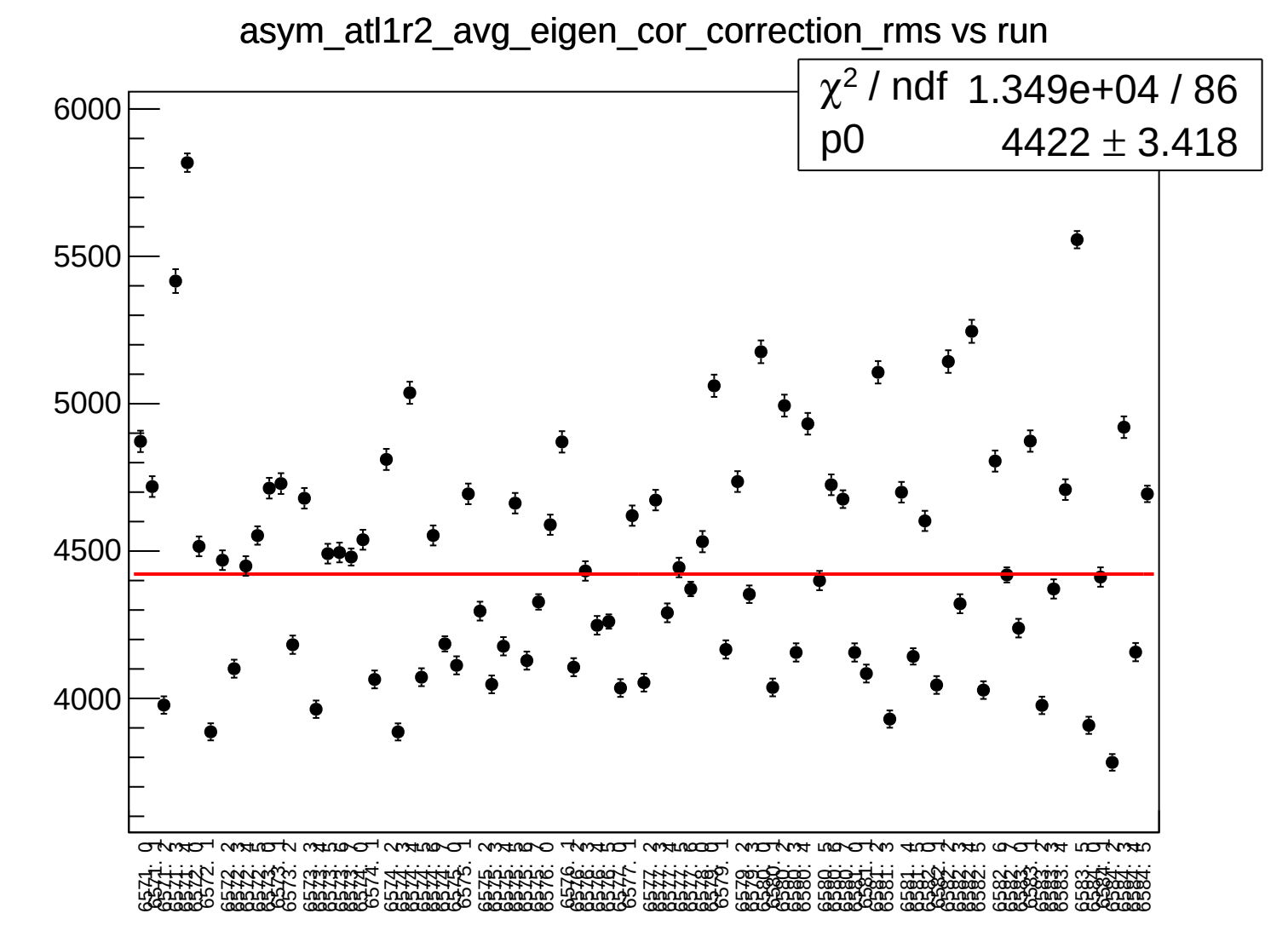

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 75.41 / 86
p0 −2479 ± 1953
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 352.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

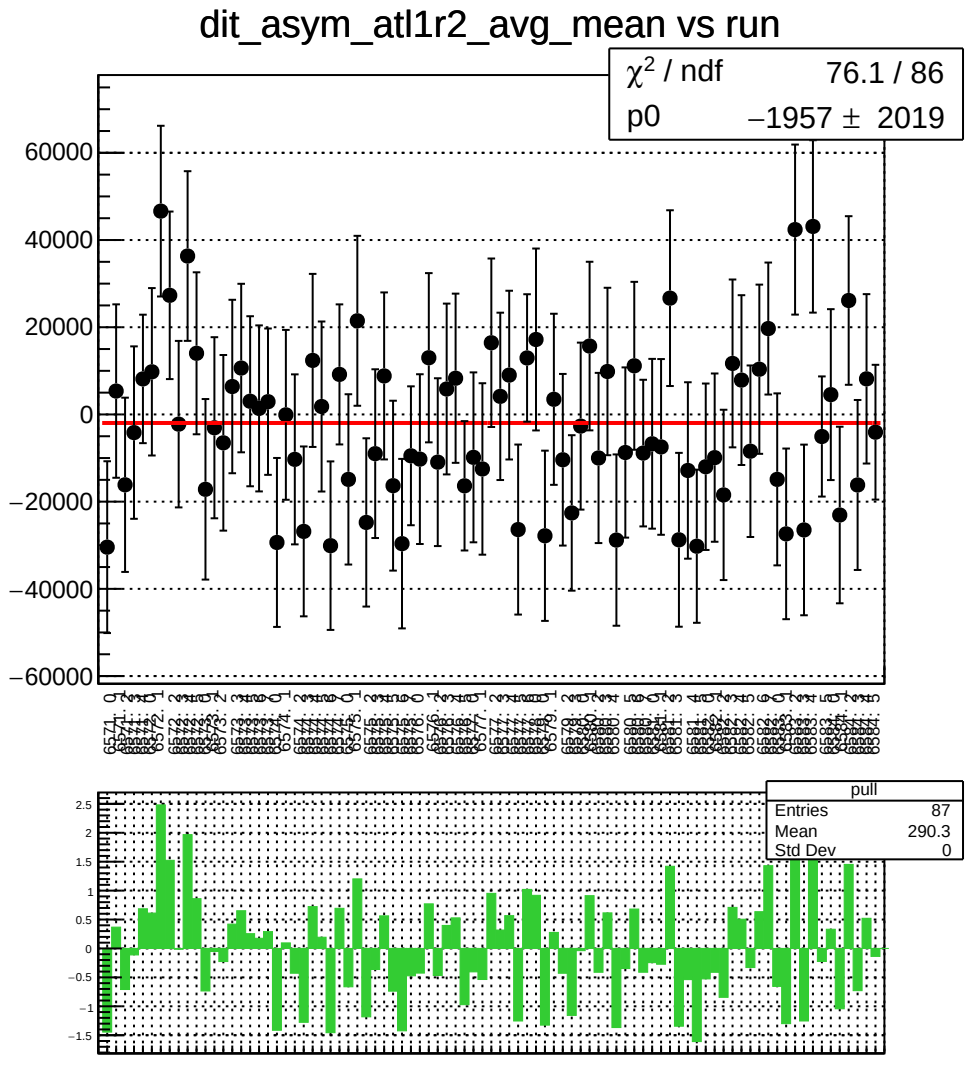

pull1D
Entries 87
Mean −0.005464
Std Dev 0.931
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

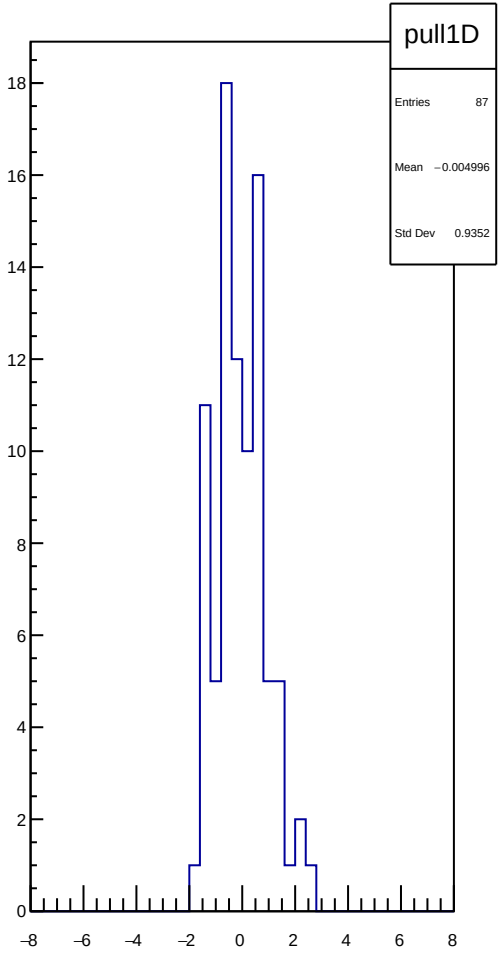

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 126.3 / 86
p0 1794 ± 1.381
1840
1820
1800
1780
1760
1740

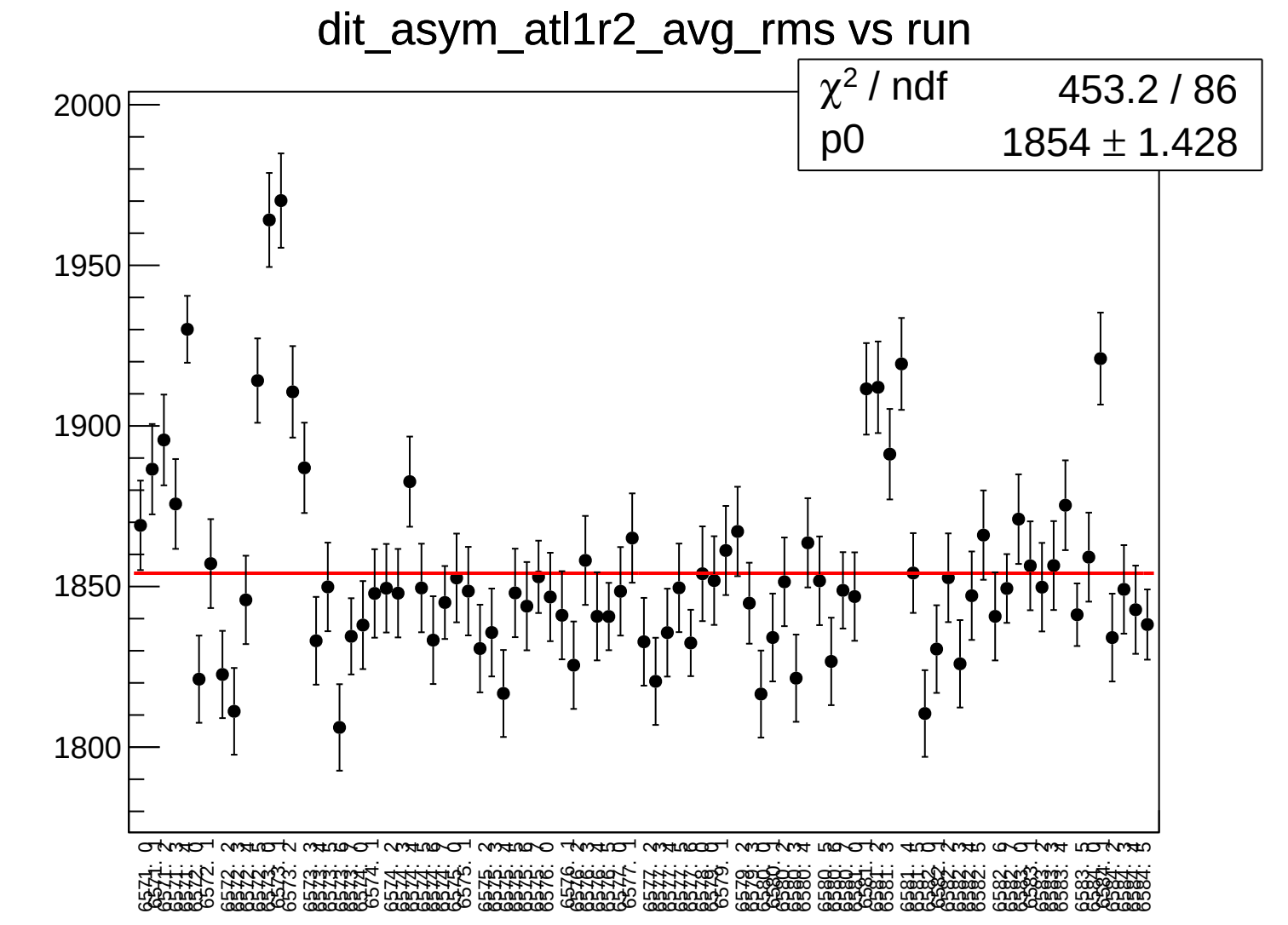

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 99.17 / 86
p0 4687 ± 4834
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −937.7
Std Dev 0
2
1
0
−1
−2
−3

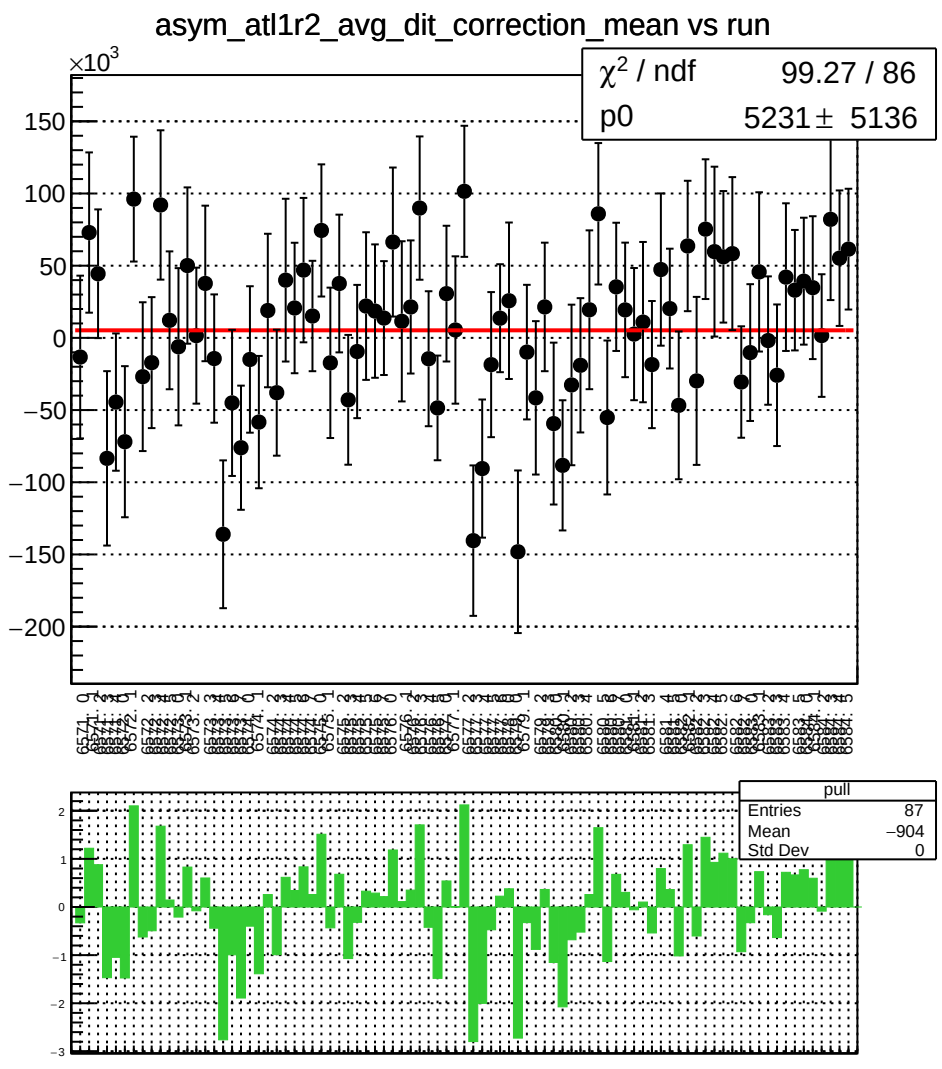

pull1D
Entries 87
Mean −0.004707
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

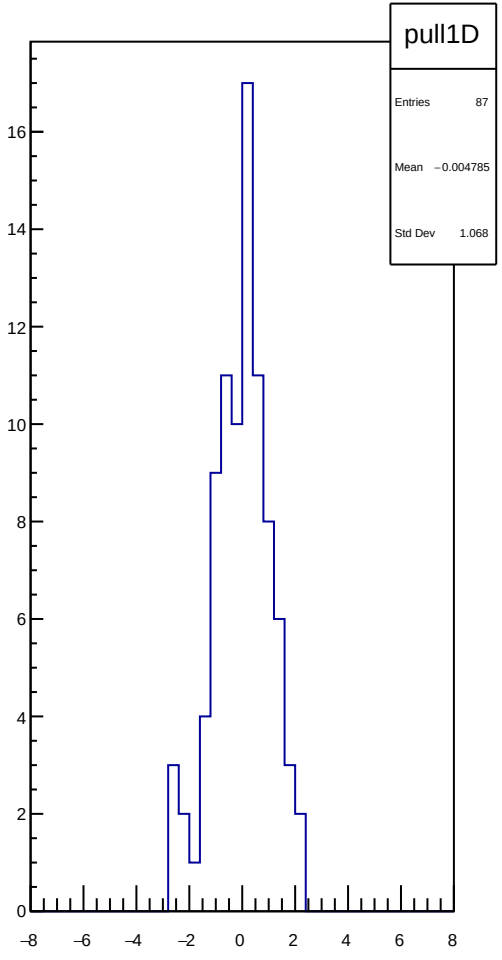

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.349e+04 / 86
p0 4422 ± 3.418
6000
5500
5000
4500
4000

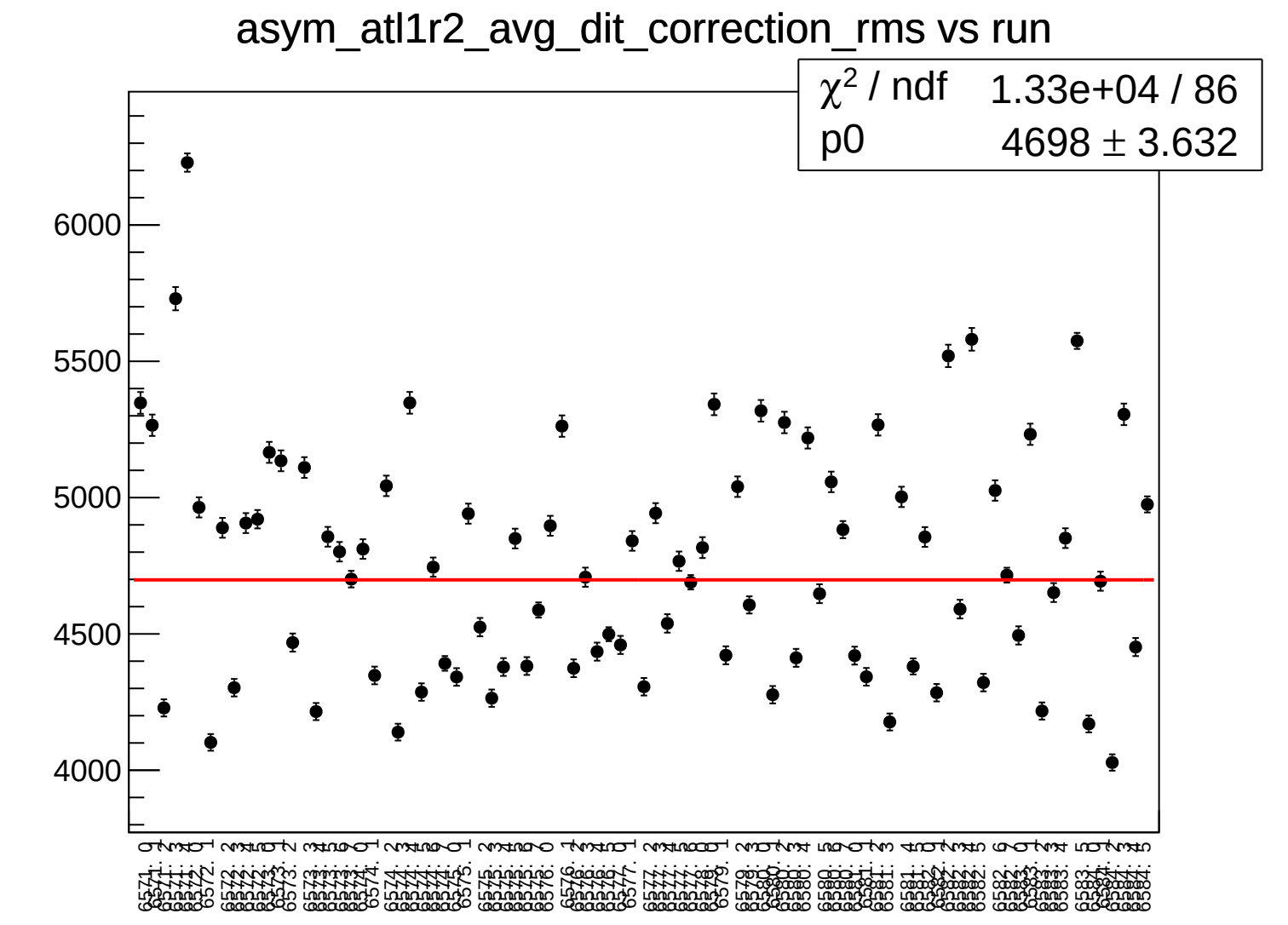

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 76.1 / 86
p0 −1957 ± 2019
pull
Entries 87
Mean 290.3
Std Dev 0

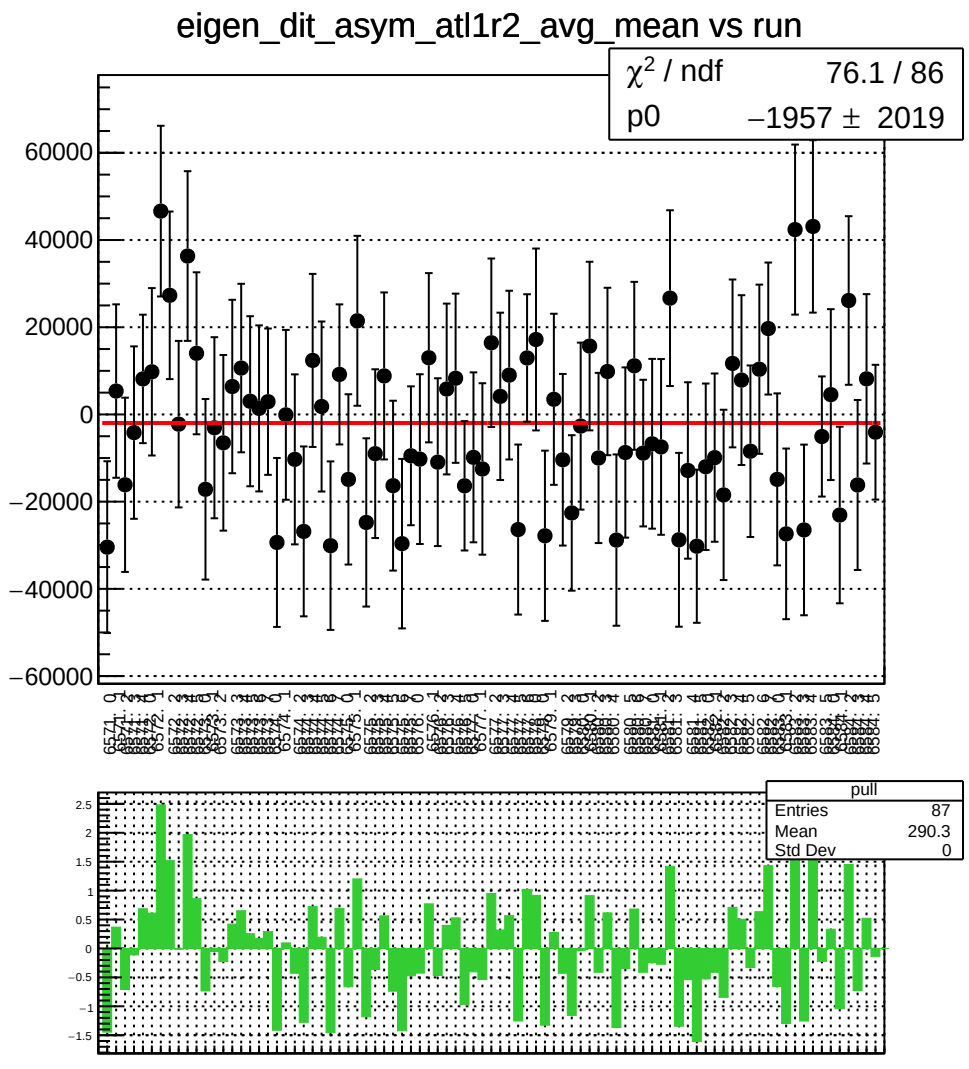

pull1D
Entries 87
Mean −0.004996
Std Dev 0.9352

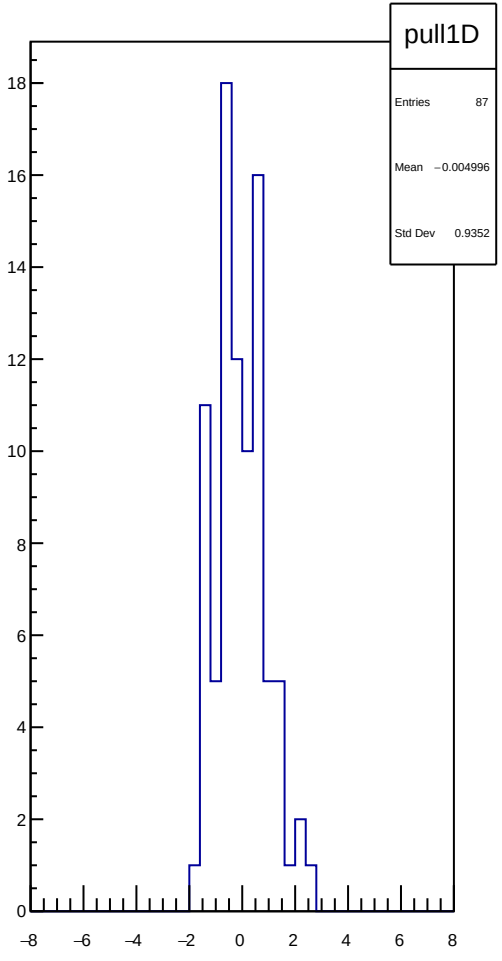

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 453.2 / 86
p0 1854 ± 1.428
2000
1950
1900
1850
1800

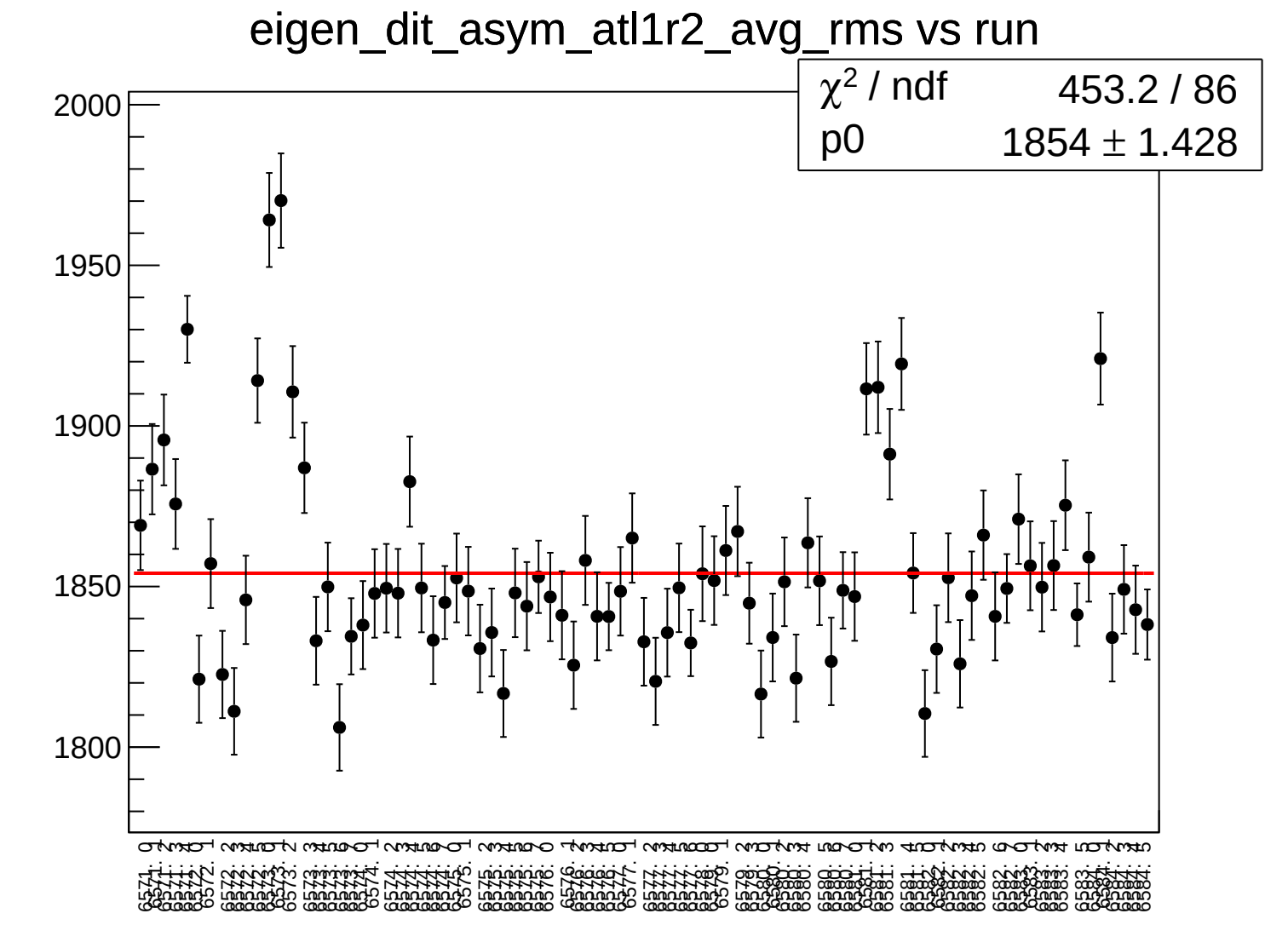

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 99.27 / 86
p0 5231 ± 5136
pull
Entries 87
Mean −904
Std Dev 0

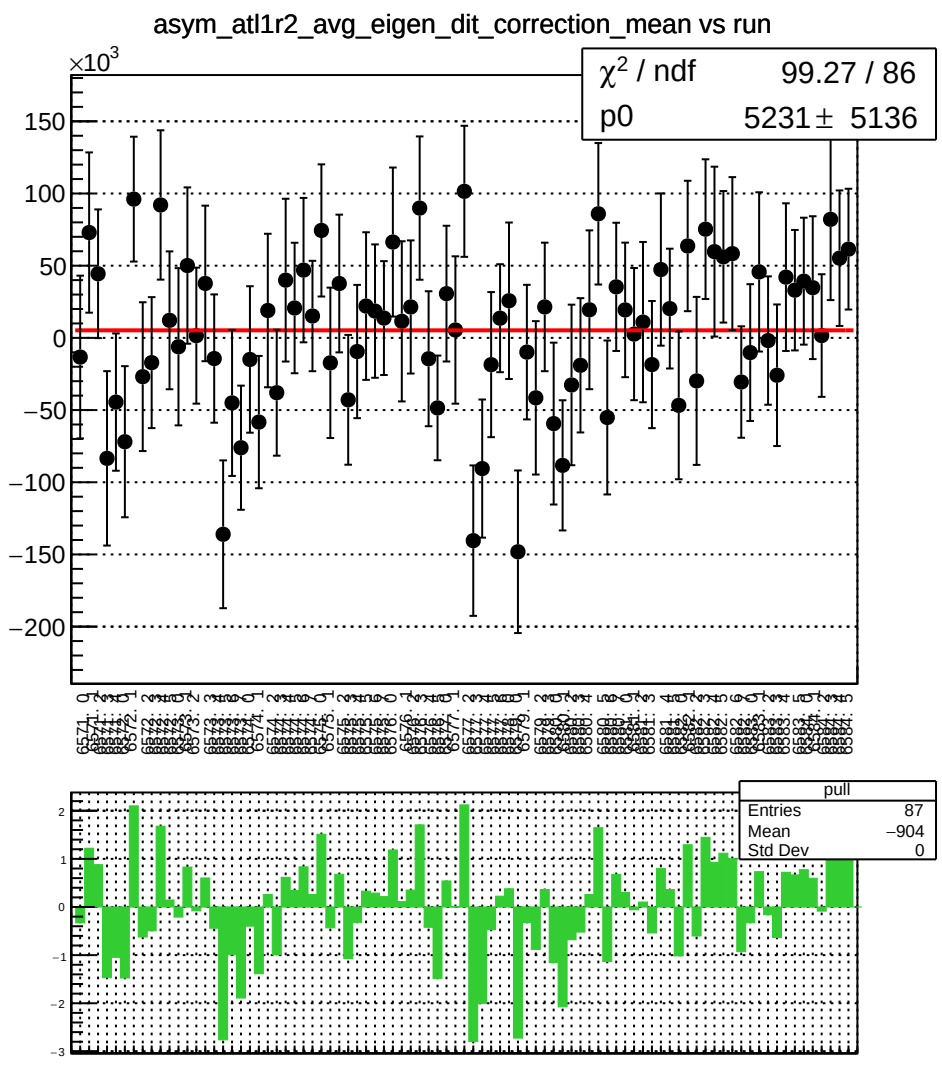

pull1D
Entries 87
Mean −0.004785
Std Dev 1.068

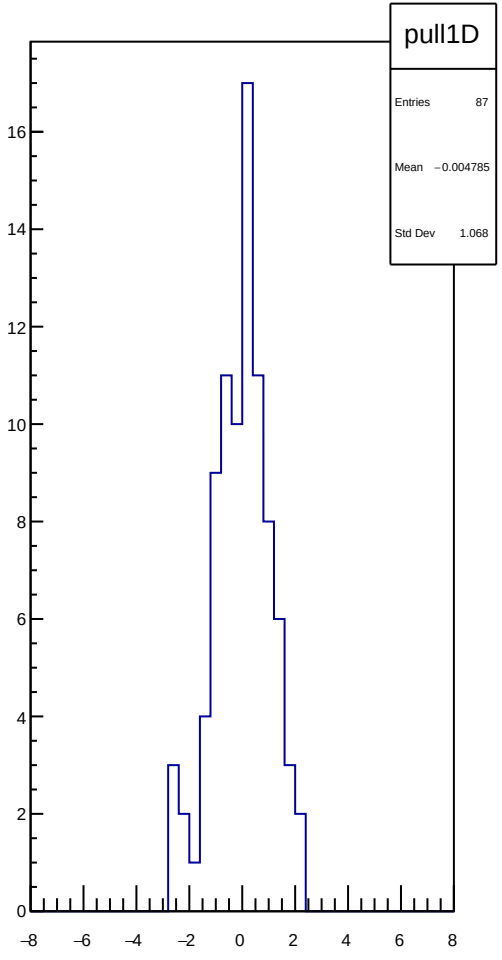

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 1.33e+04 / 86
p0 4698 ± 3.632
6000
5500
5000
4500
4000

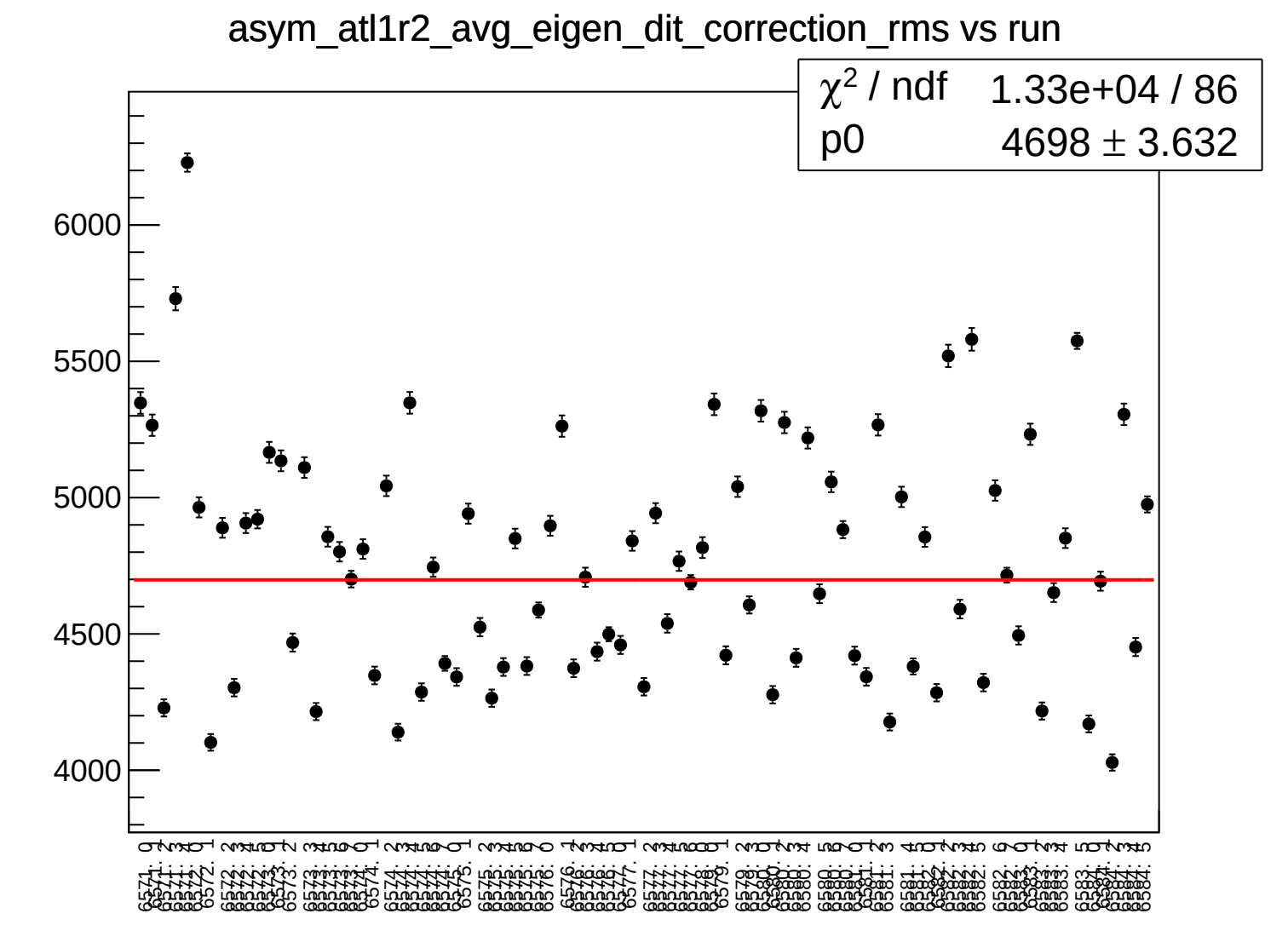

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 76.1 / 86
p0 −1957 ± 2019
pull
Entries 87
Mean 290.3
Std Dev 0

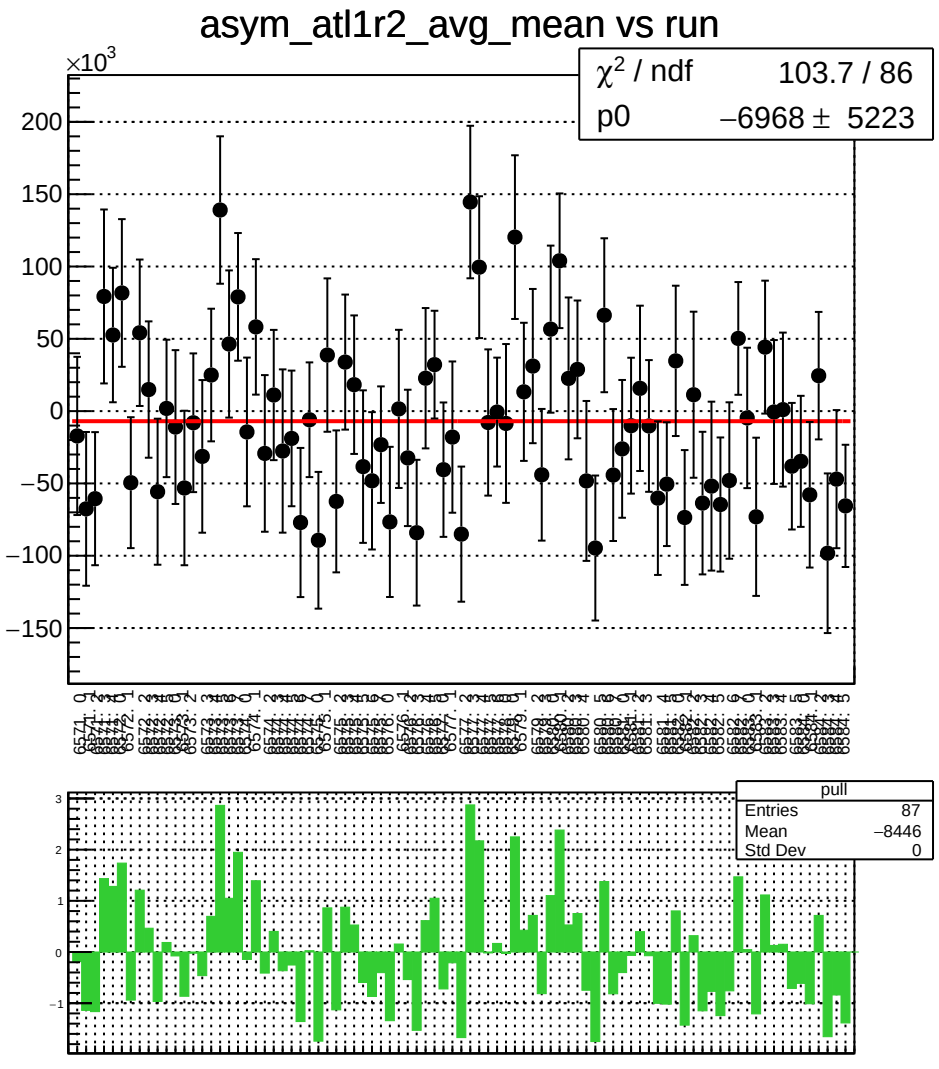

pull1D
Entries 87
Mean −0.004996
Std Dev 0.9352

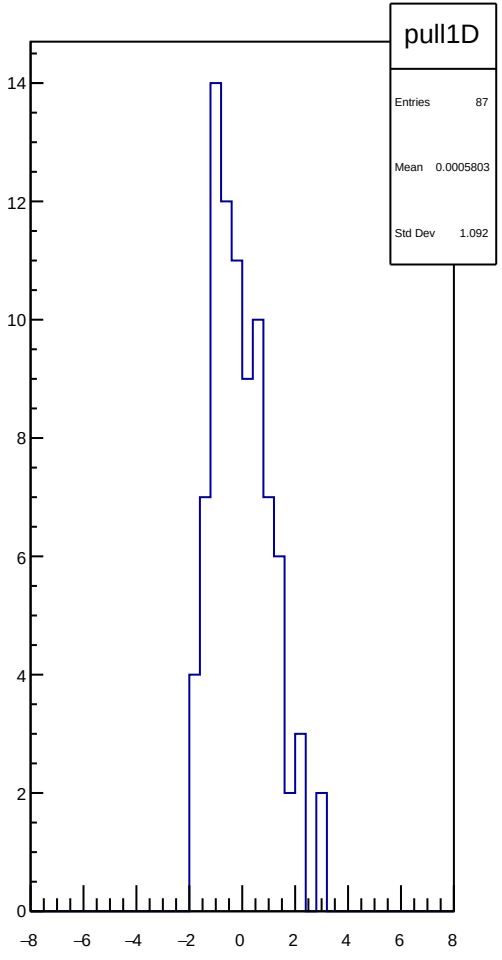

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 453.2 / 86
p0 1854 ± 1.428
2000
1950
1900
1850
1800

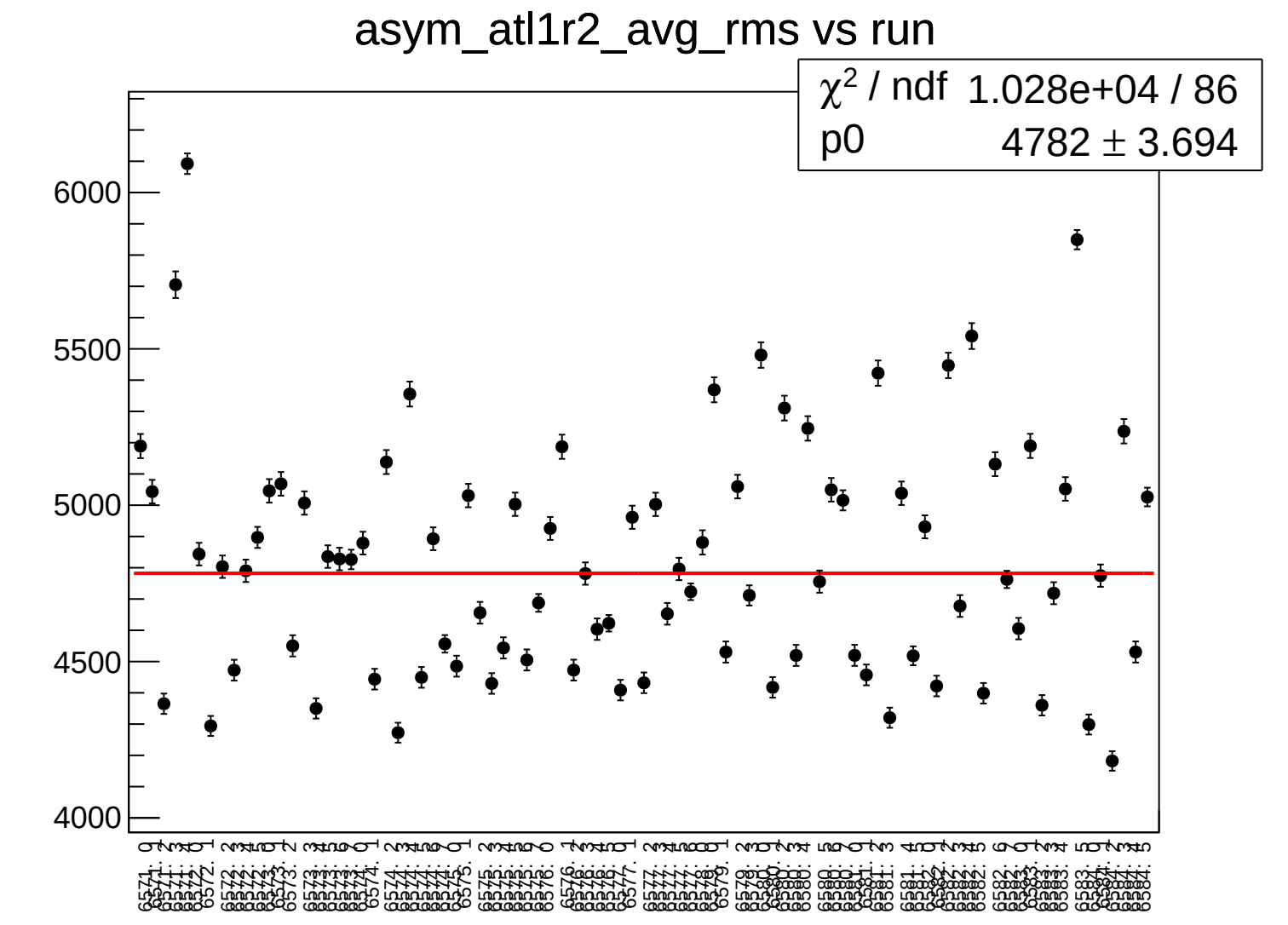

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 99.27 / 86
p0 5231 ± 5136
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −904
Std Dev 0
2
1
0
−1
−2
−3

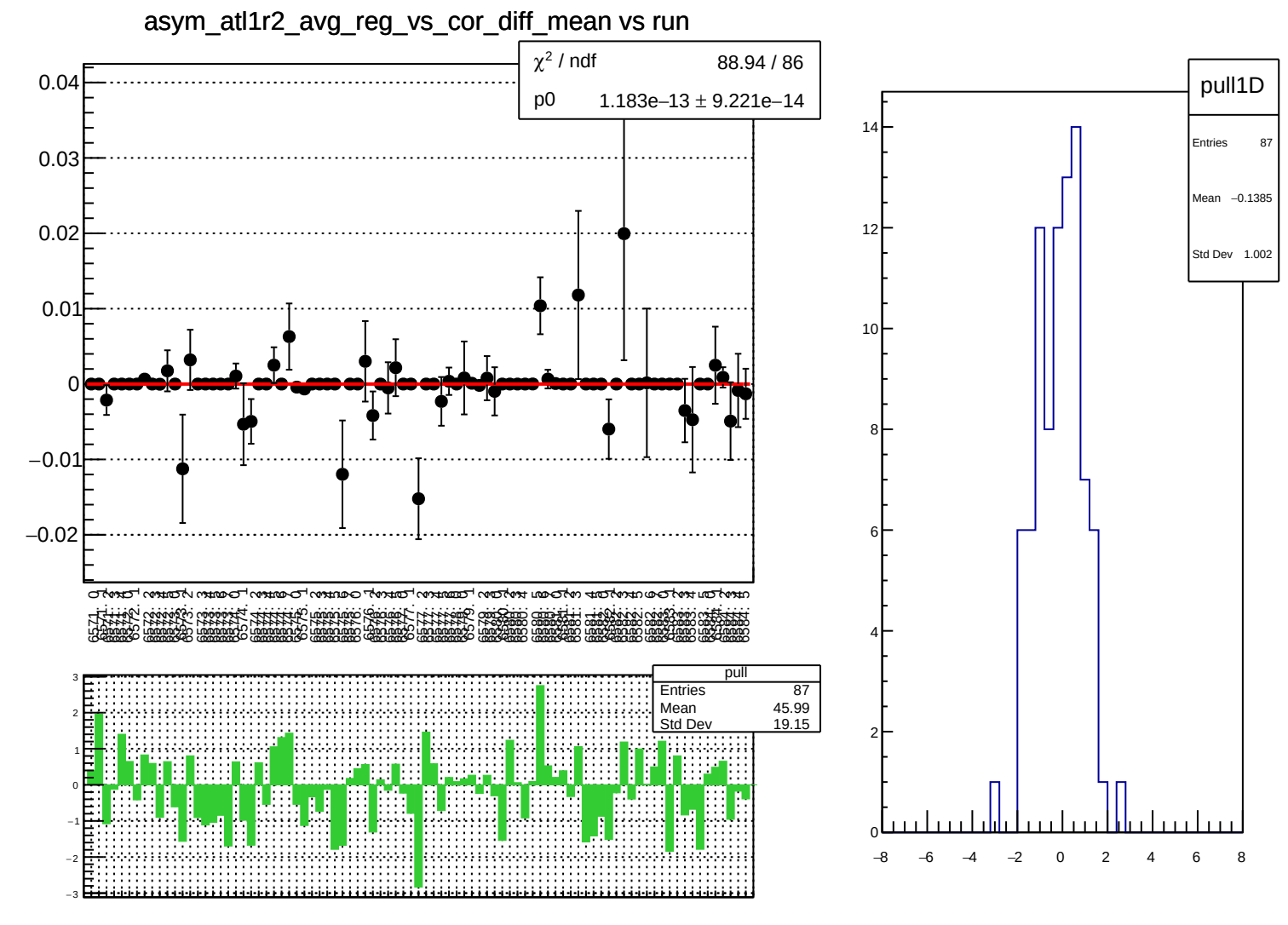

pull1D
Entries 87
Mean −0.004785
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

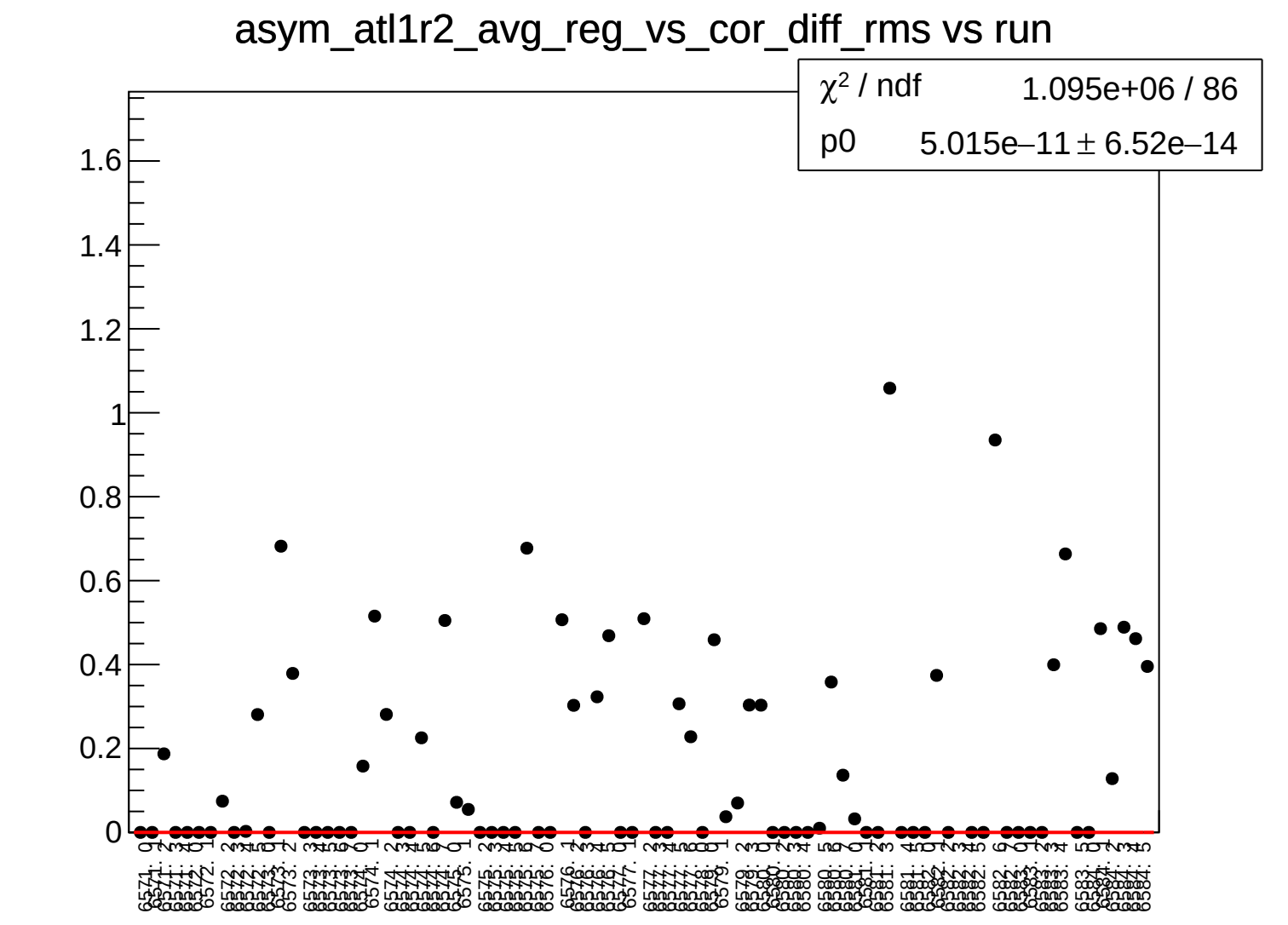

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.33e+04 / 86
p0 4698 ± 3.632
6000
5500
5000
4500
4000

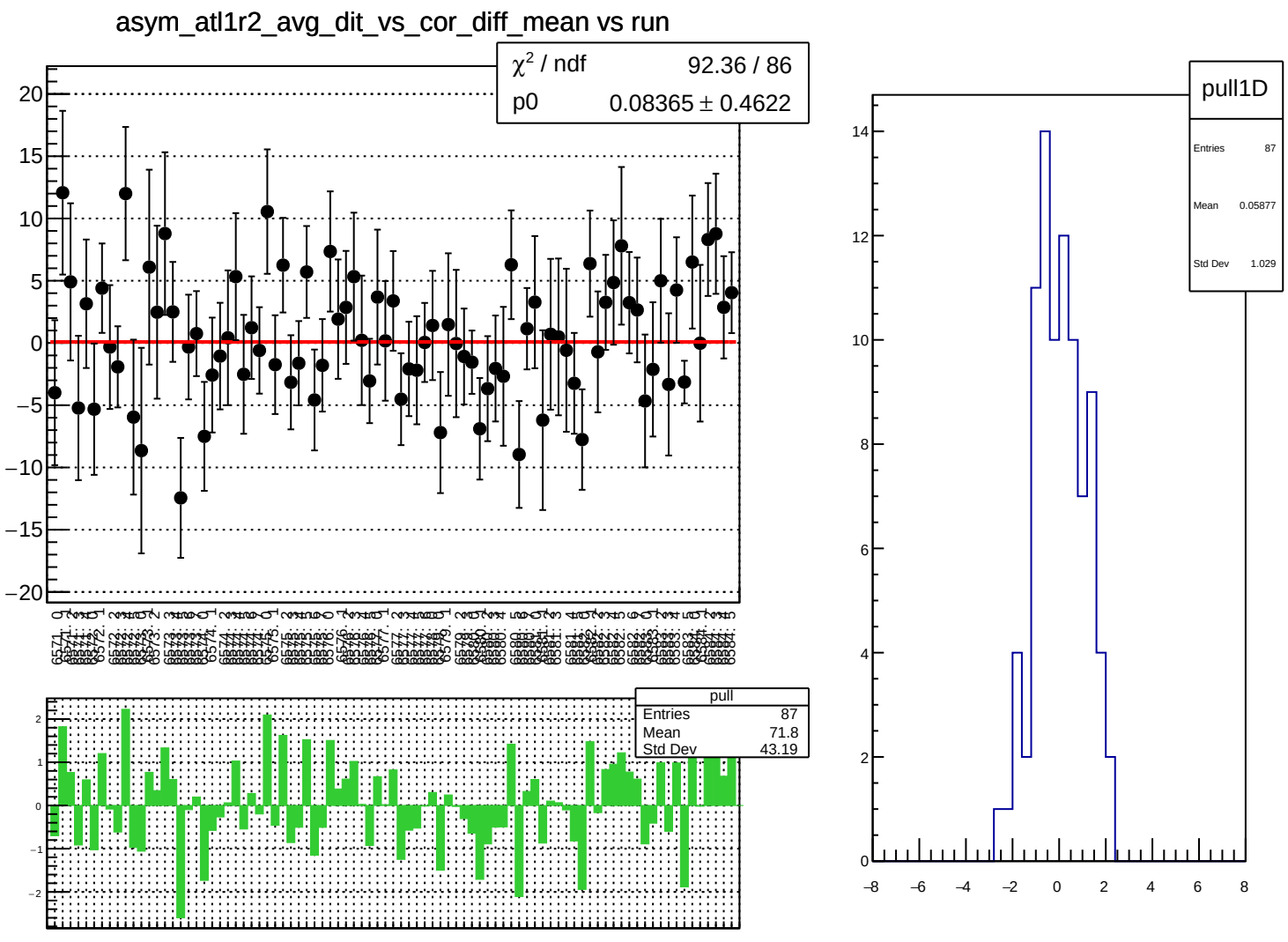

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 103.7 / 86
p0 −6968 ± 5223
200
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −8446
Std Dev 0
3
2
1
0
−1

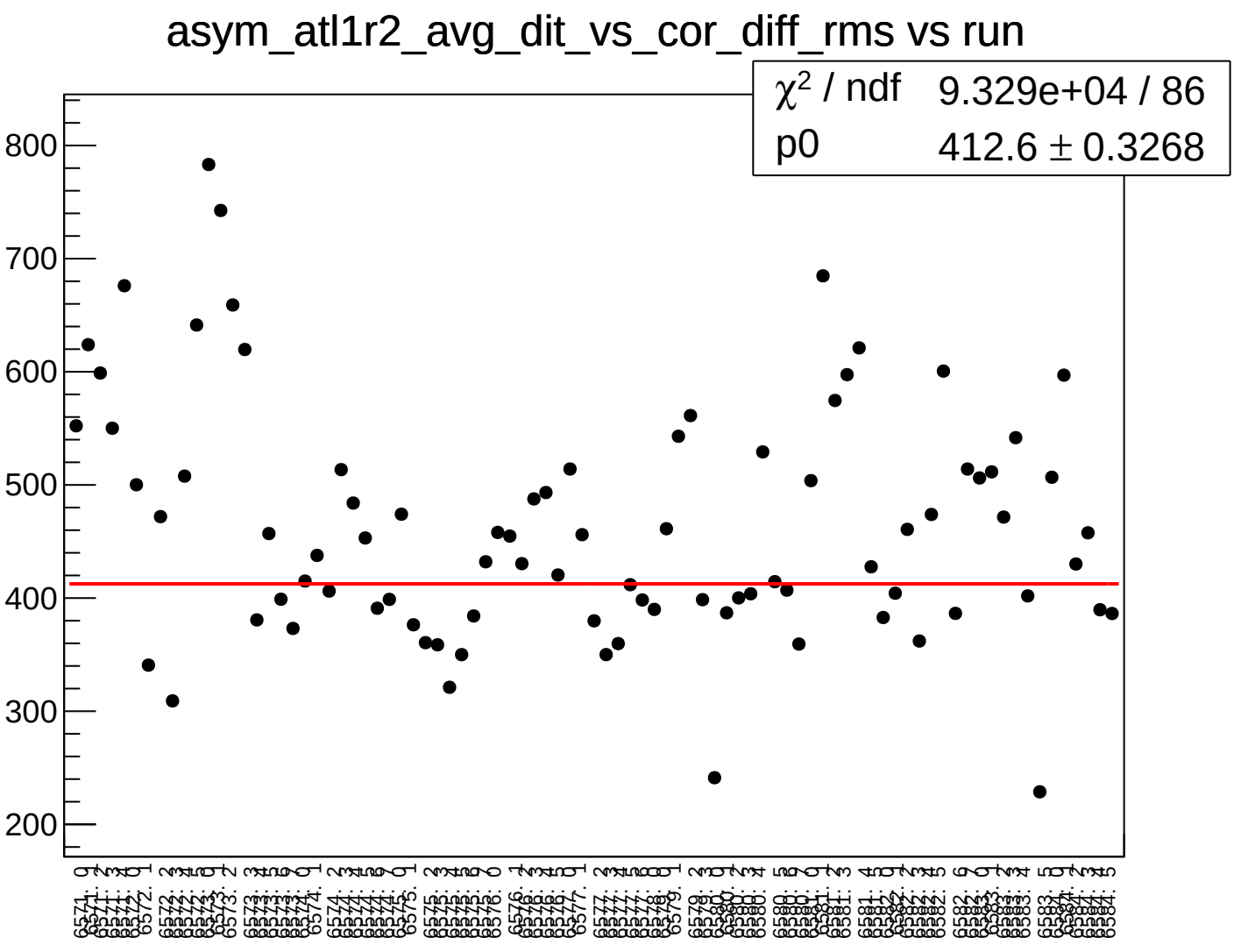

pull1D
Entries 87
Mean 0.0005803
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

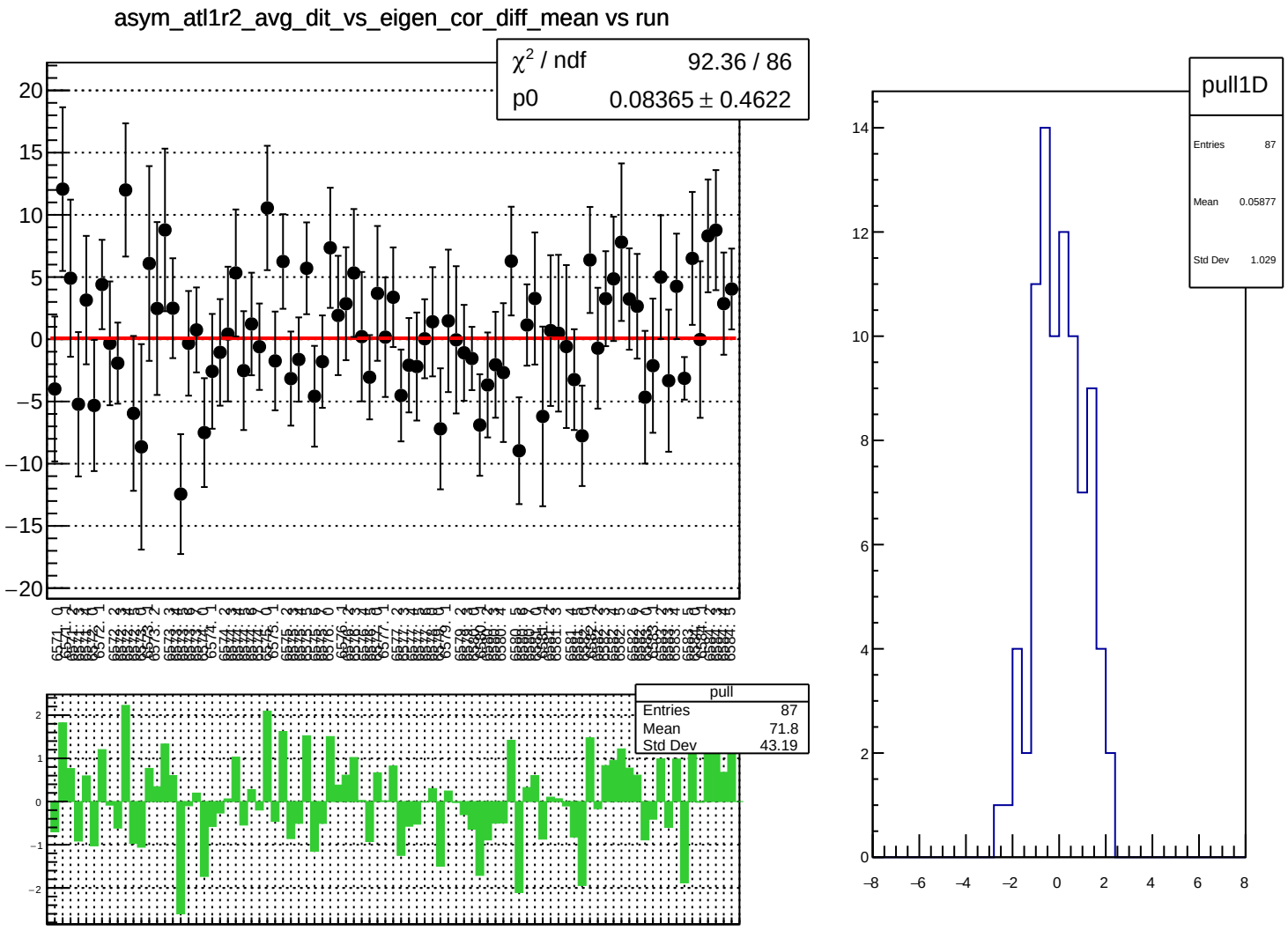

asym_atl1r2_avg_rms vs run
χ² / ndf 1.028e+04 / 86
p0 4782 ± 3.694
6000
5500
5000
4500
4000

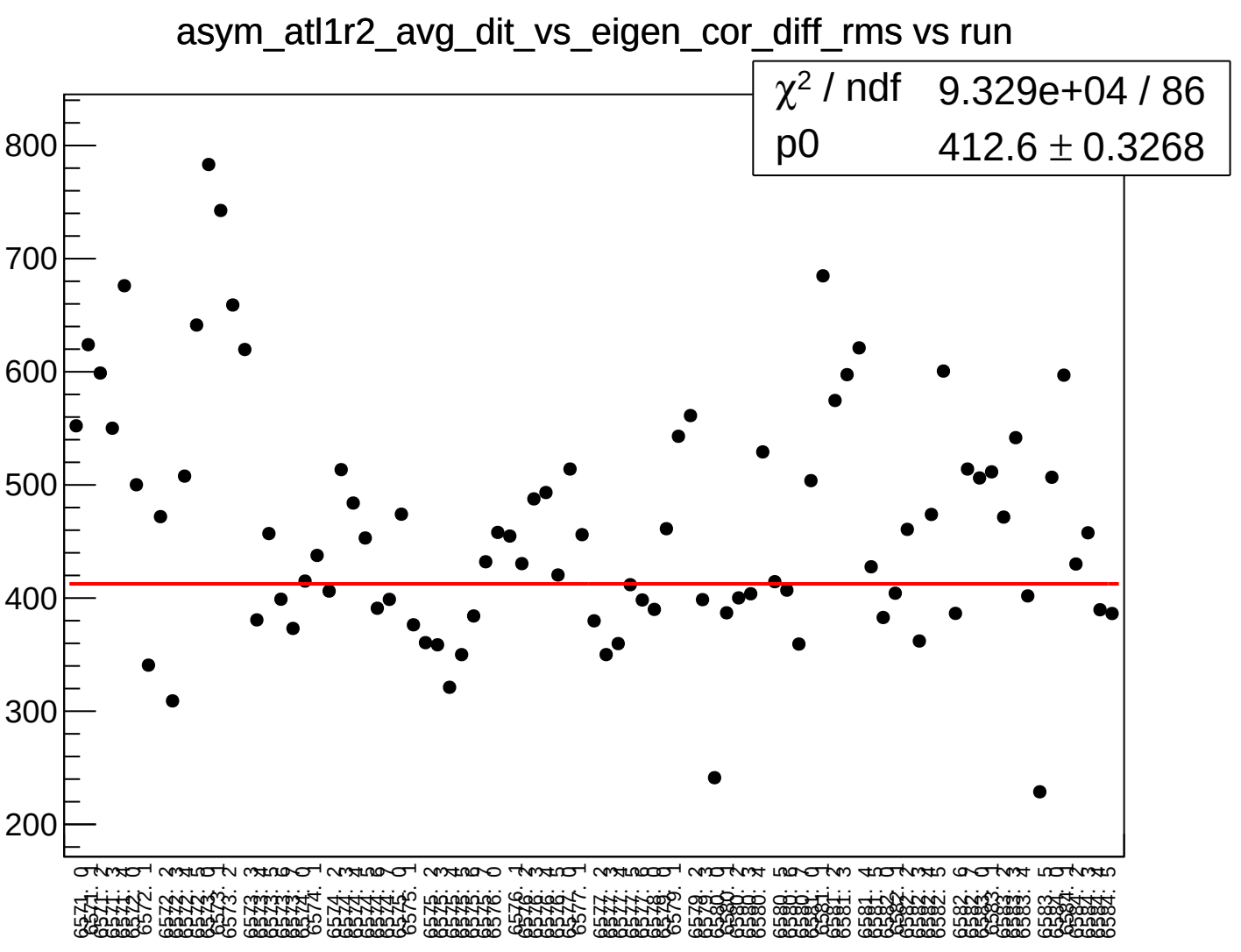

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.94 / 86
p0 1.183e−13 ± 9.221e−14
pull
Entries 87
Mean 45.99
Std Dev 19.15
pull1D
Entries 87
Mean −0.1385
Std Dev 1.002

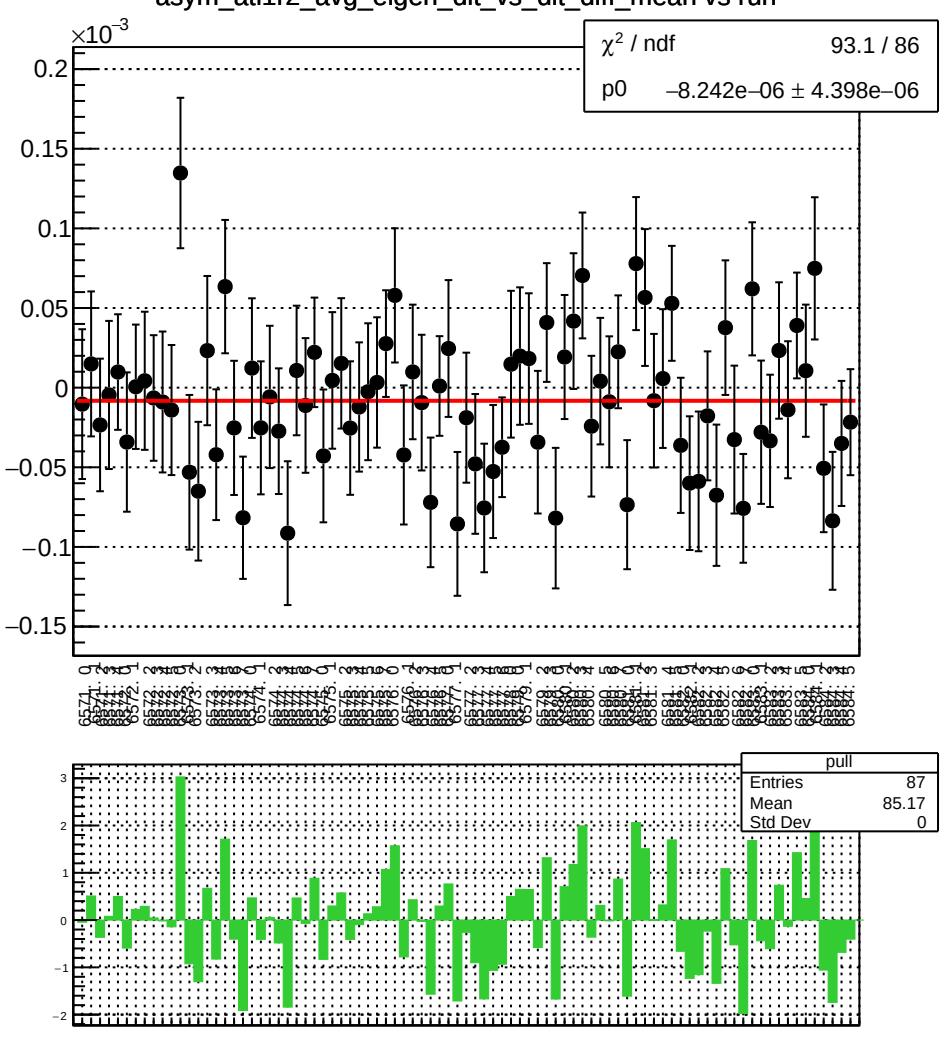

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.095e+06 / 86
p0 5.015e−11 ± 6.52e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

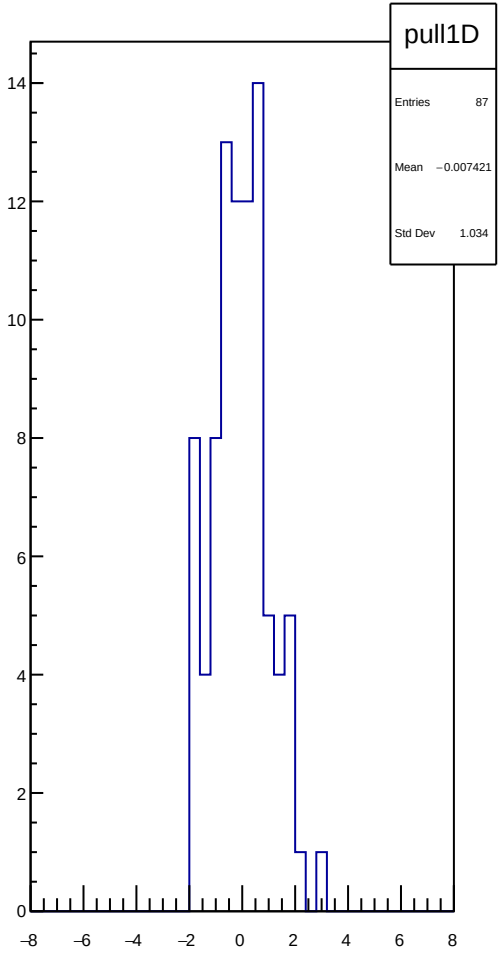

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.36 / 86
p0 0.08365 ± 0.4622
pull
Entries 87
Mean 71.8
Std Dev 43.19
pull1D
Entries 87
Mean 0.05877
Std Dev 1.029

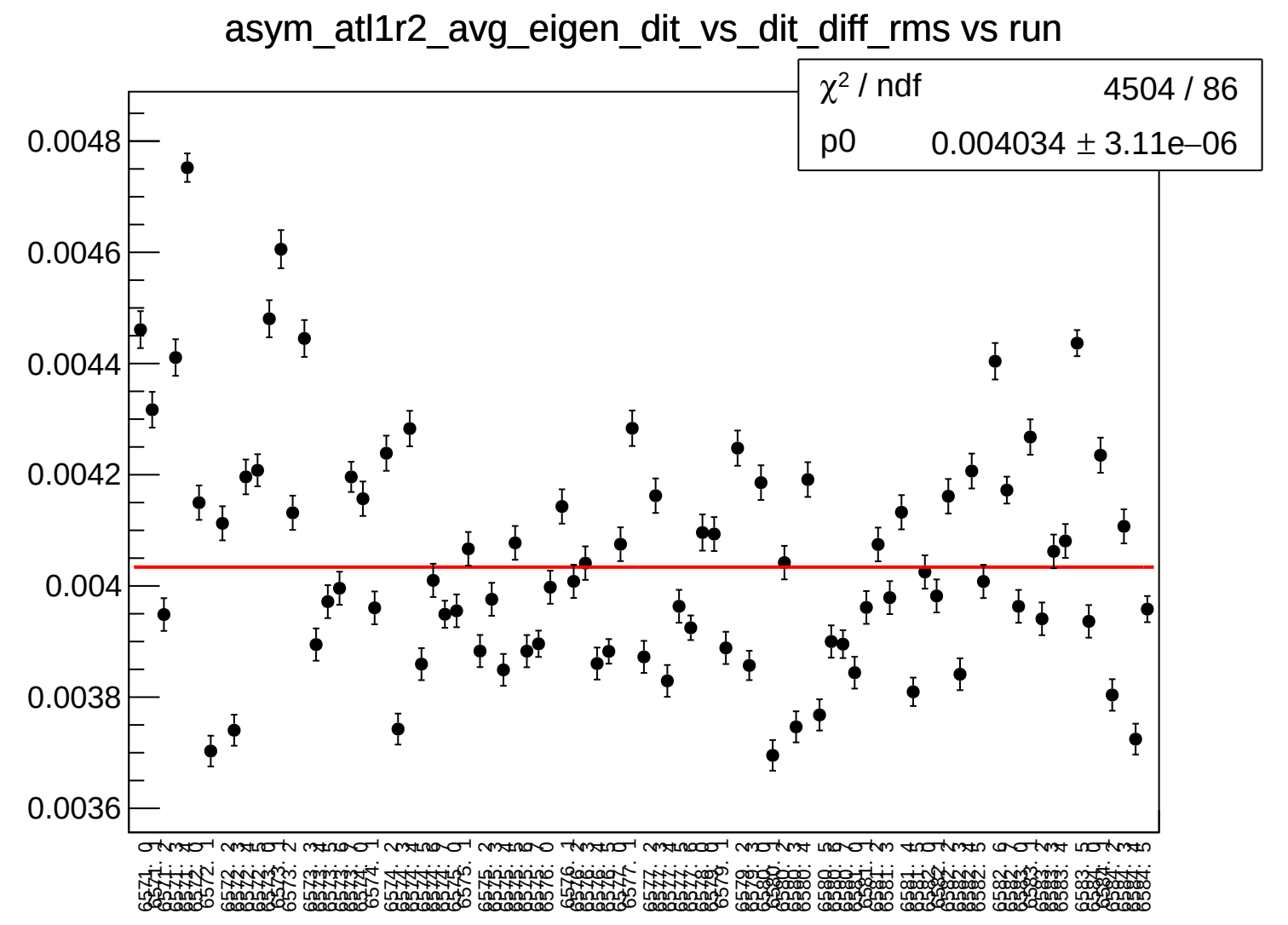

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.329e+04 / 86
p0 412.6 ± 0.3268
800
700
600
500
400
300
200

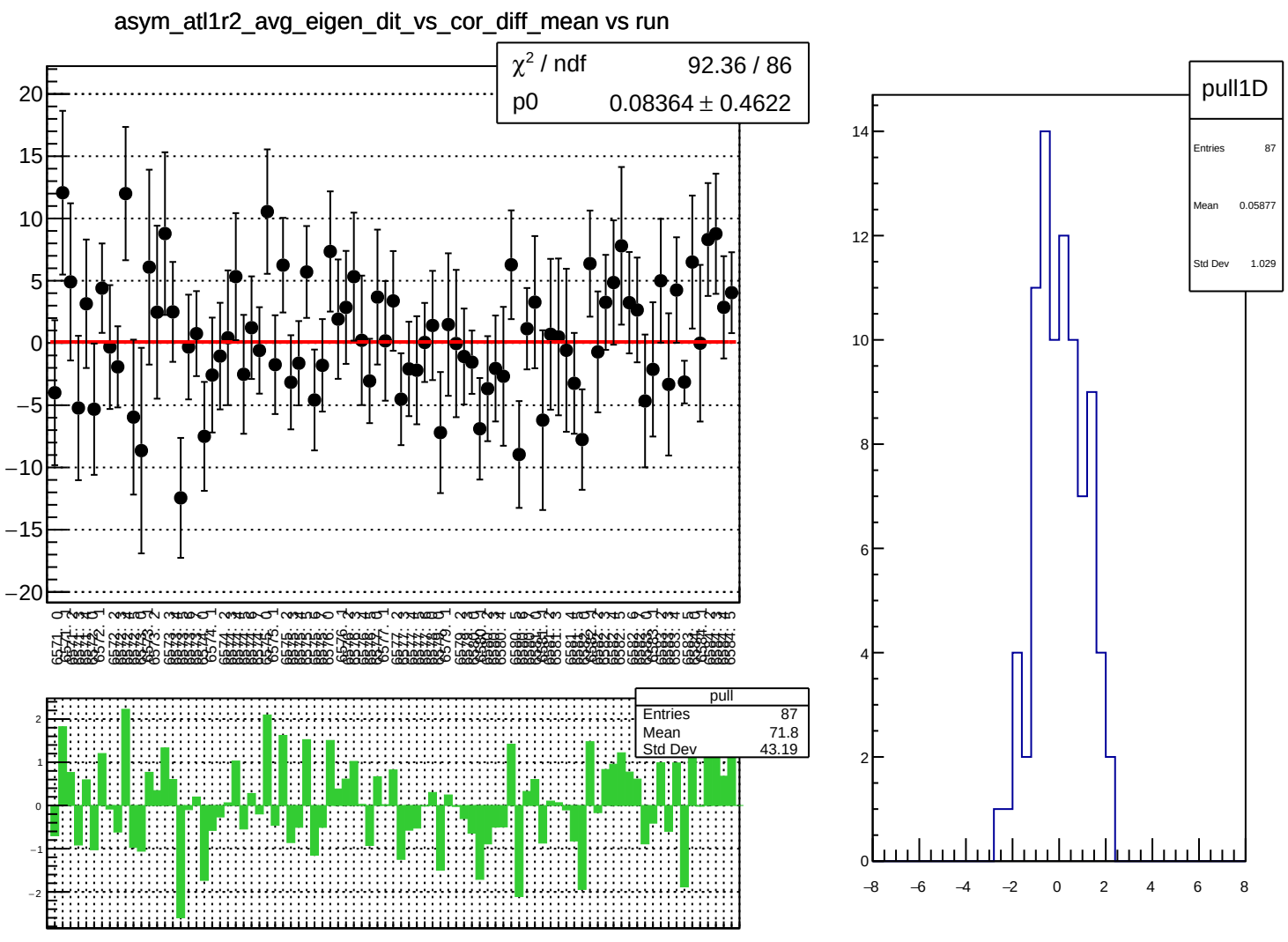

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.36 / 86
p0 0.08365 ± 0.4622
pull
Entries 87
Mean 71.8
Std Dev 43.19
pull1D
Entries 87
Mean 0.05877
Std Dev 1.029

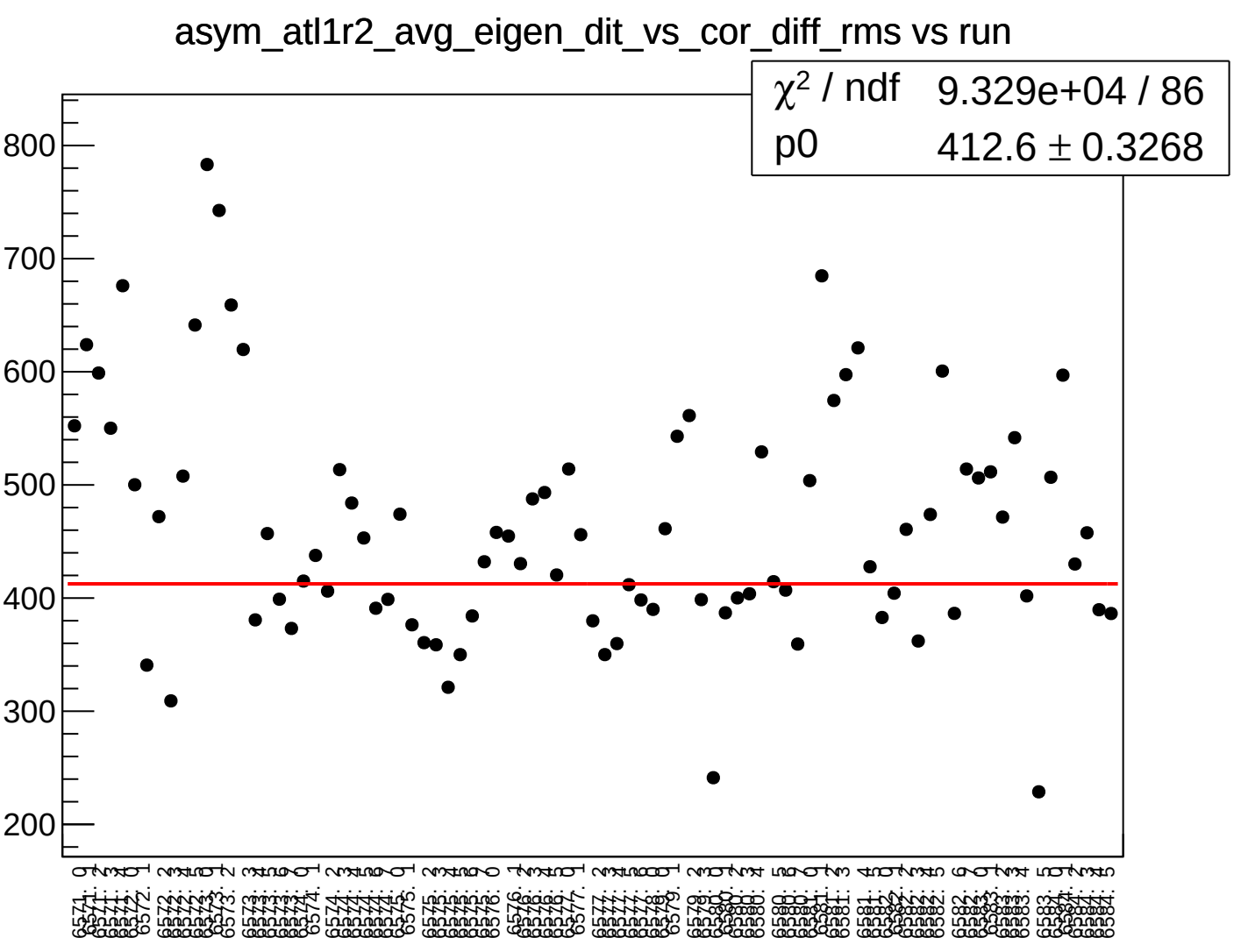

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.329e+04 / 86
p0 412.6 ± 0.3268
800
700
600
500
400
300
200

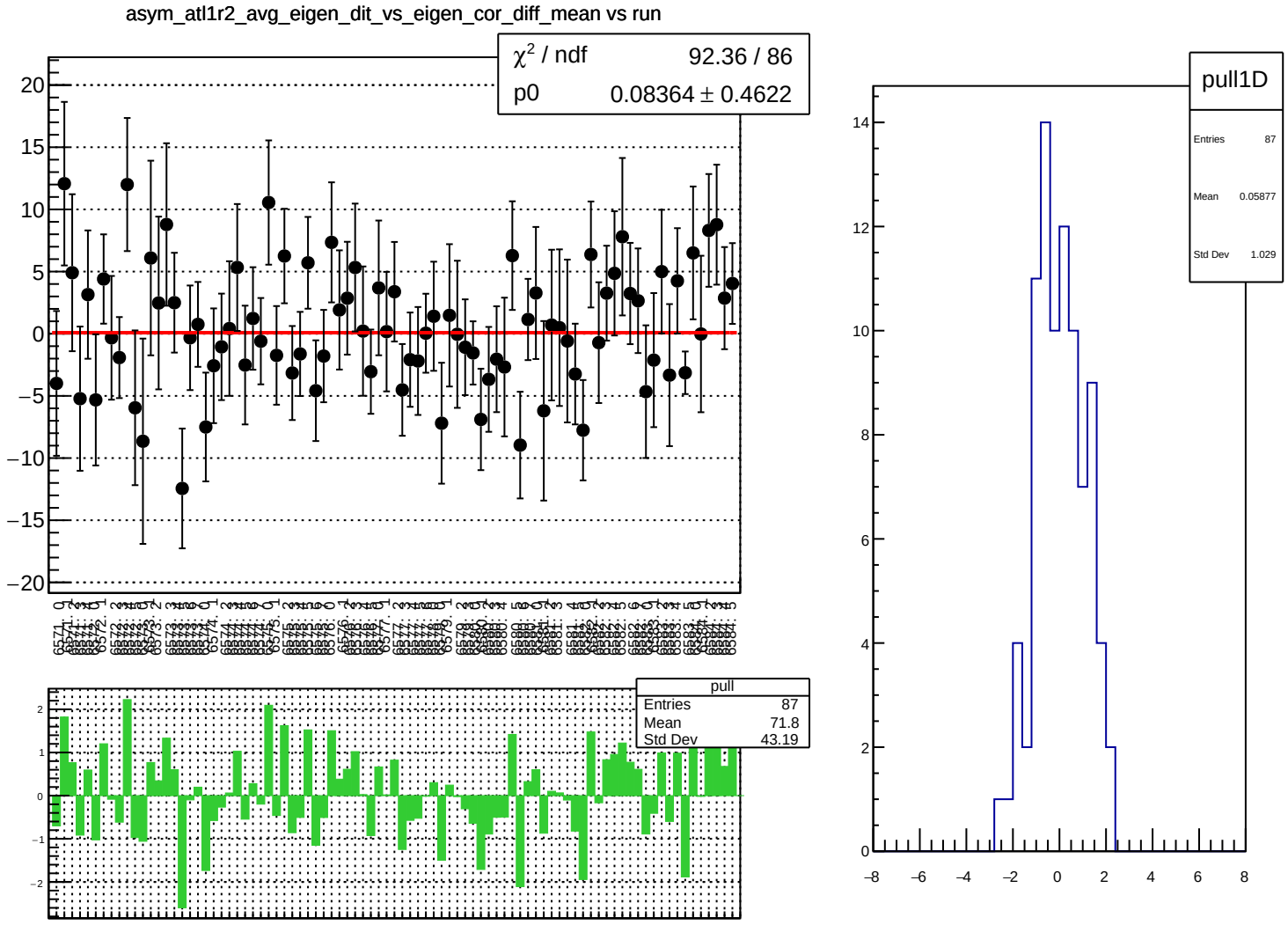

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.1 / 86
p0 −8.242e−06 ± 4.398e−06
pull
Entries 87
Mean 85.17
Std Dev 0

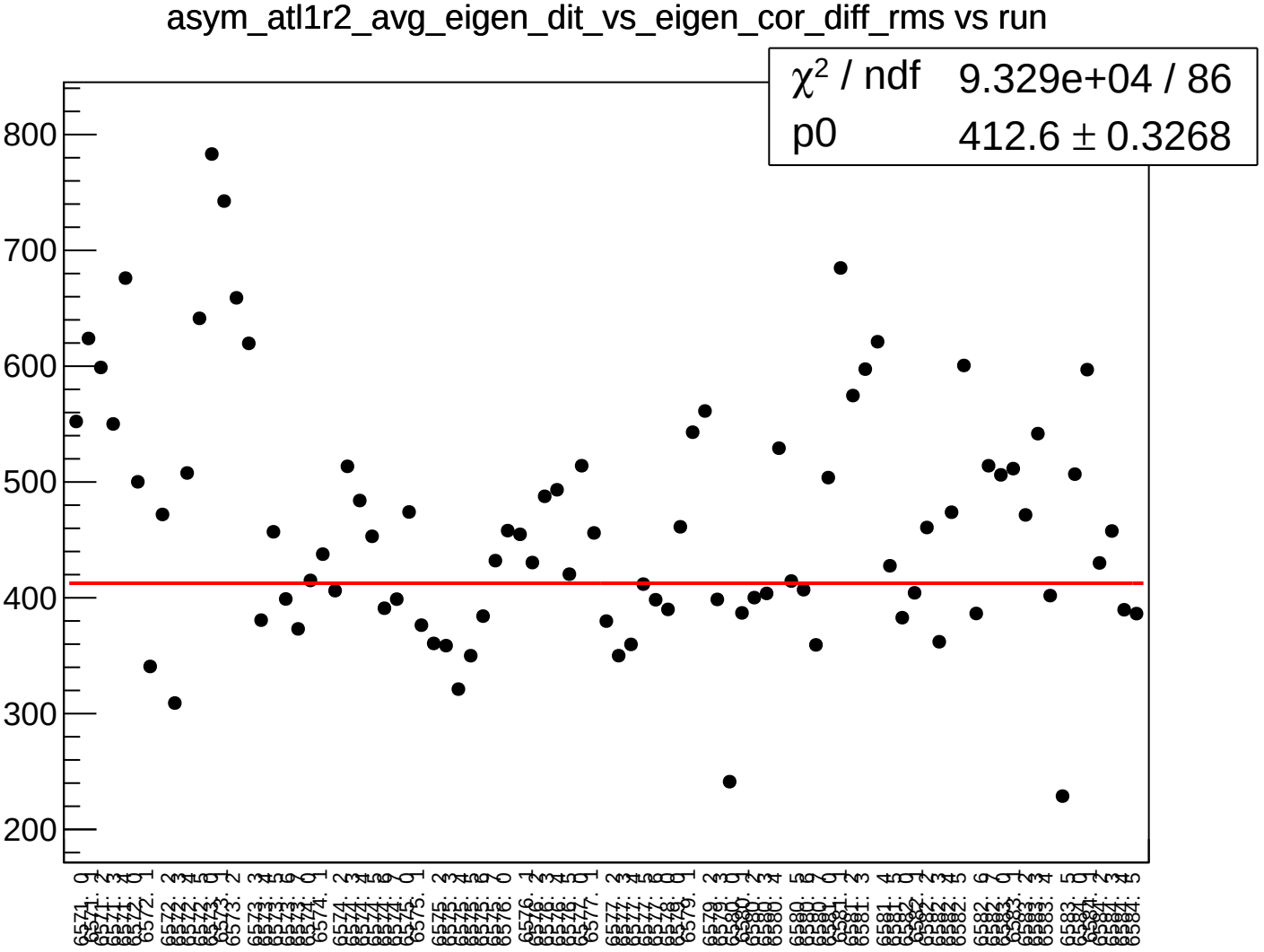

pull1D
Entries 87
Mean −0.007421
Std Dev 1.034

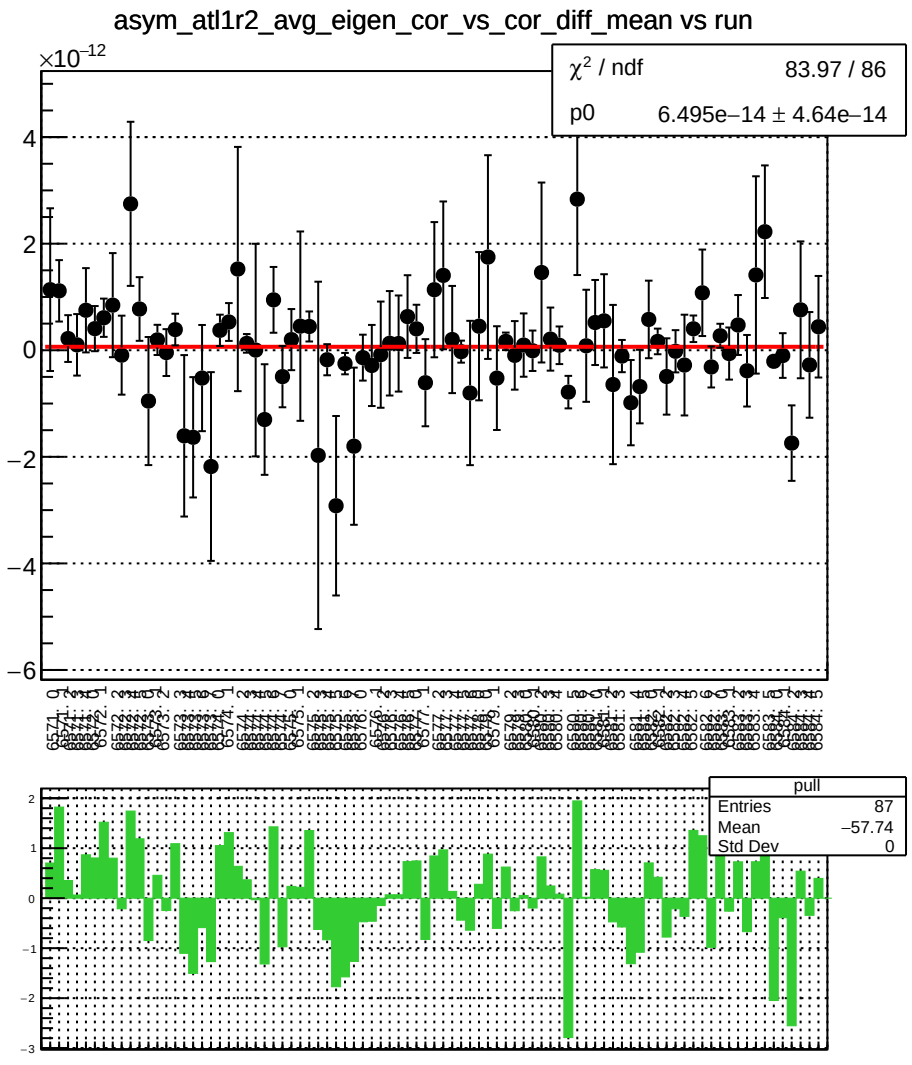

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4504 / 86
p0 0.004034 ± 3.11e–06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

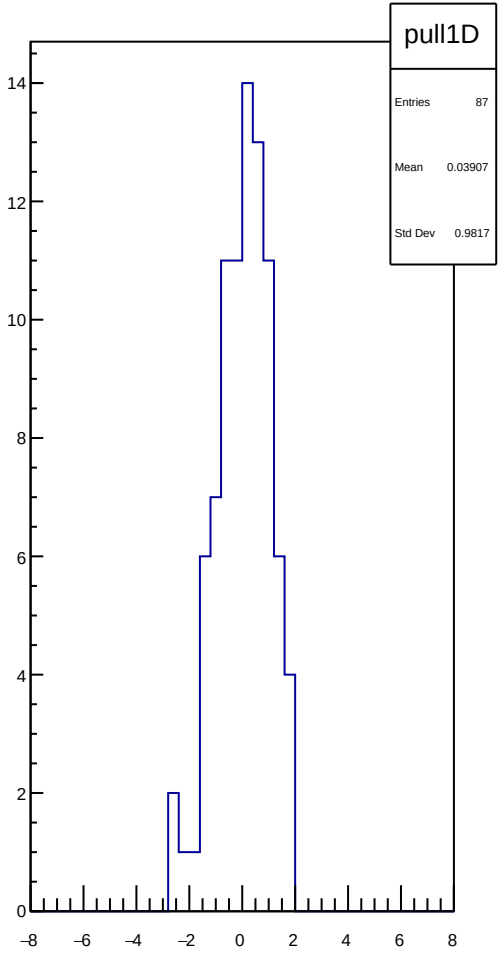

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.36 / 86
p0 0.08364 ± 0.4622
pull
Entries 87
Mean 71.8
Std Dev 43.19
pull1D
Entries 87
Mean 0.05877
Std Dev 1.029

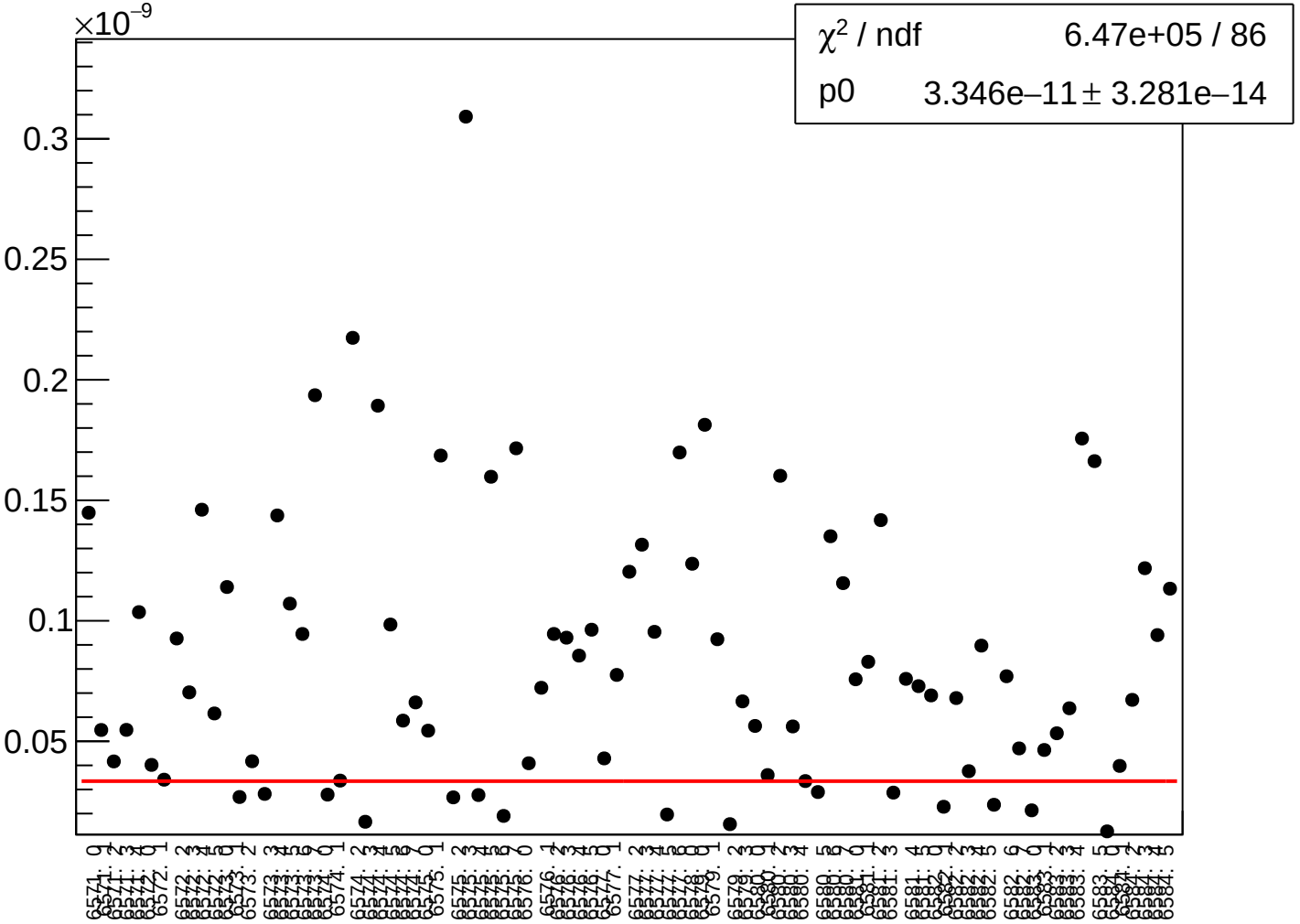

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.329e+04 / 86
p0 412.6 ± 0.3268
800
700
600
500
400
300
200

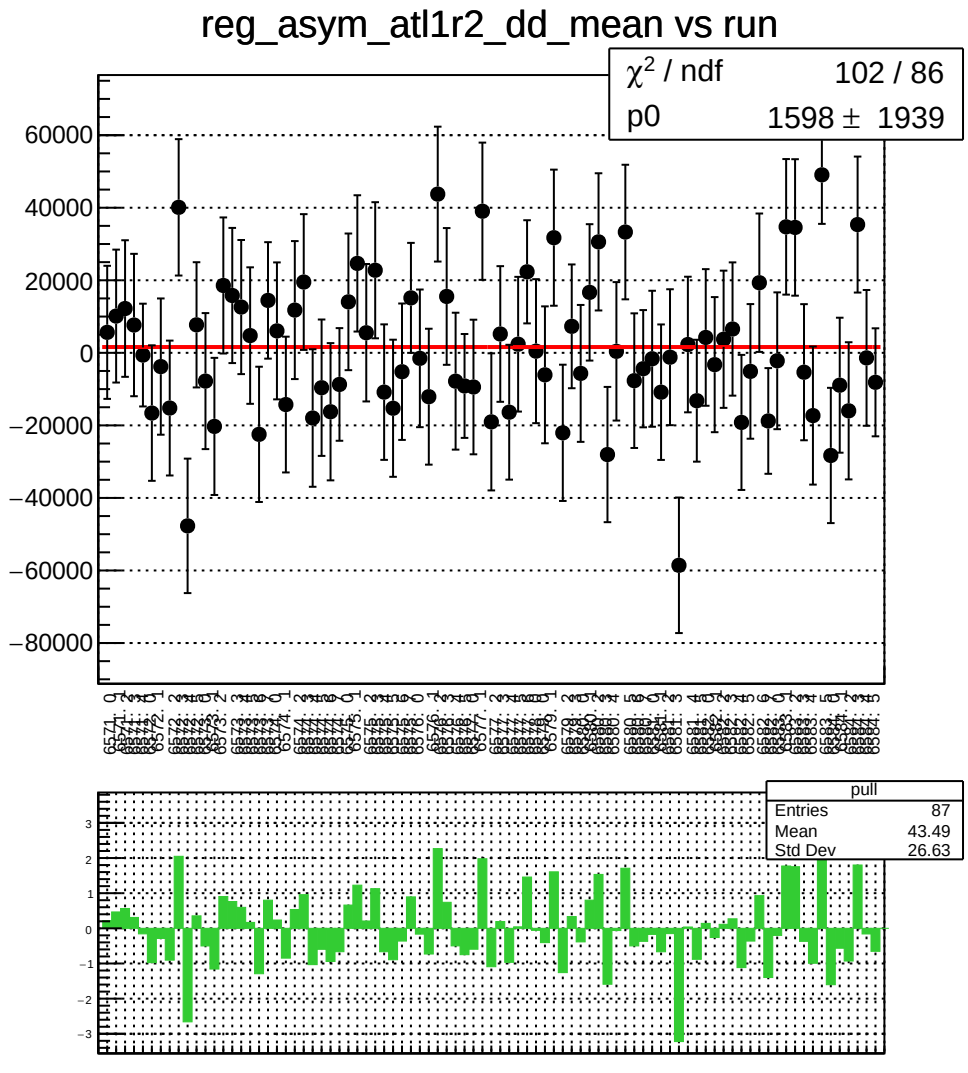

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.36 / 86
p0 0.08364 ± 0.4622
pull
Entries 87
Mean 71.8
Std Dev 43.19
pull1D
Entries 87
Mean 0.05877
Std Dev 1.029

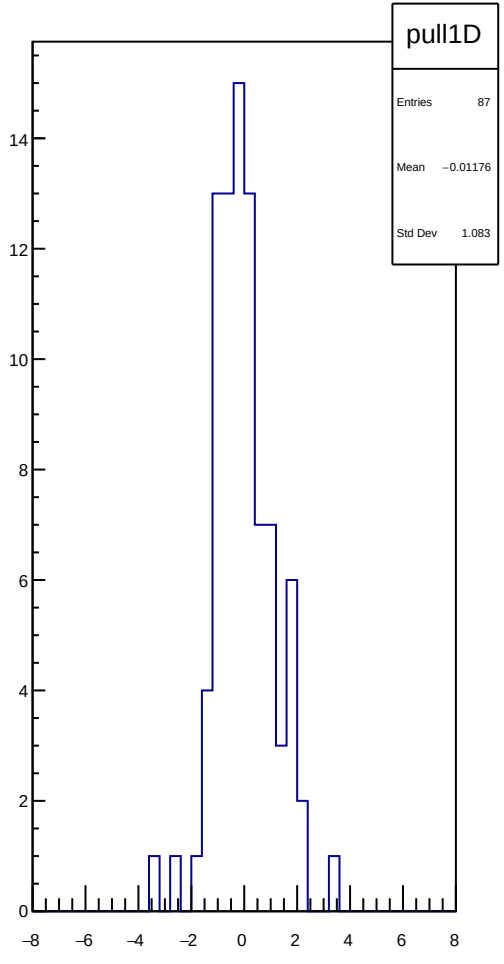

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.329e+04 / 86
p0 412.6 ± 0.3268
800
700
600
500
400
300
200

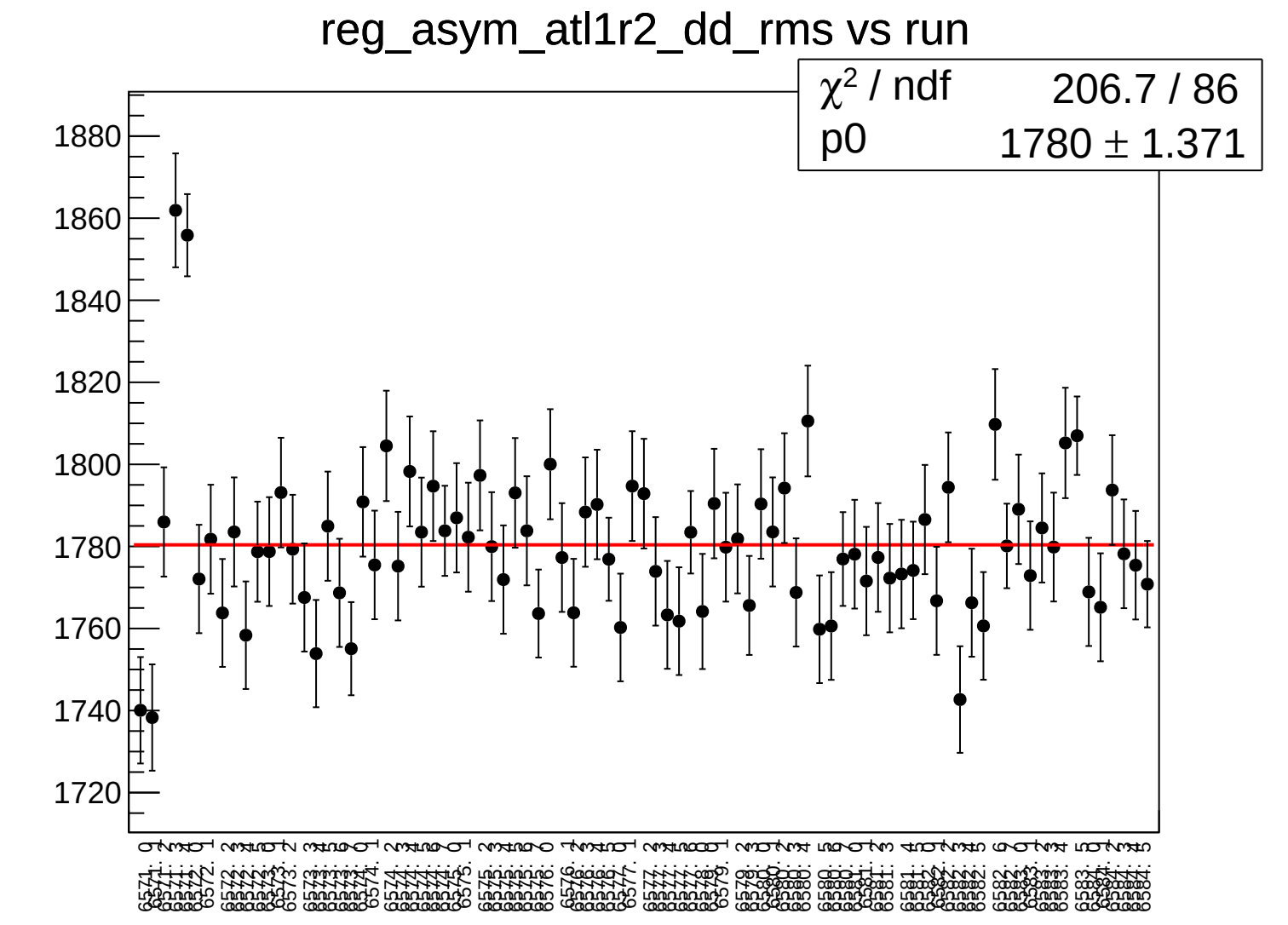

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.97 / 86
p0 6.495e−14 ± 4.64e−14
pull
Entries 87
Mean −57.74
Std Dev 0

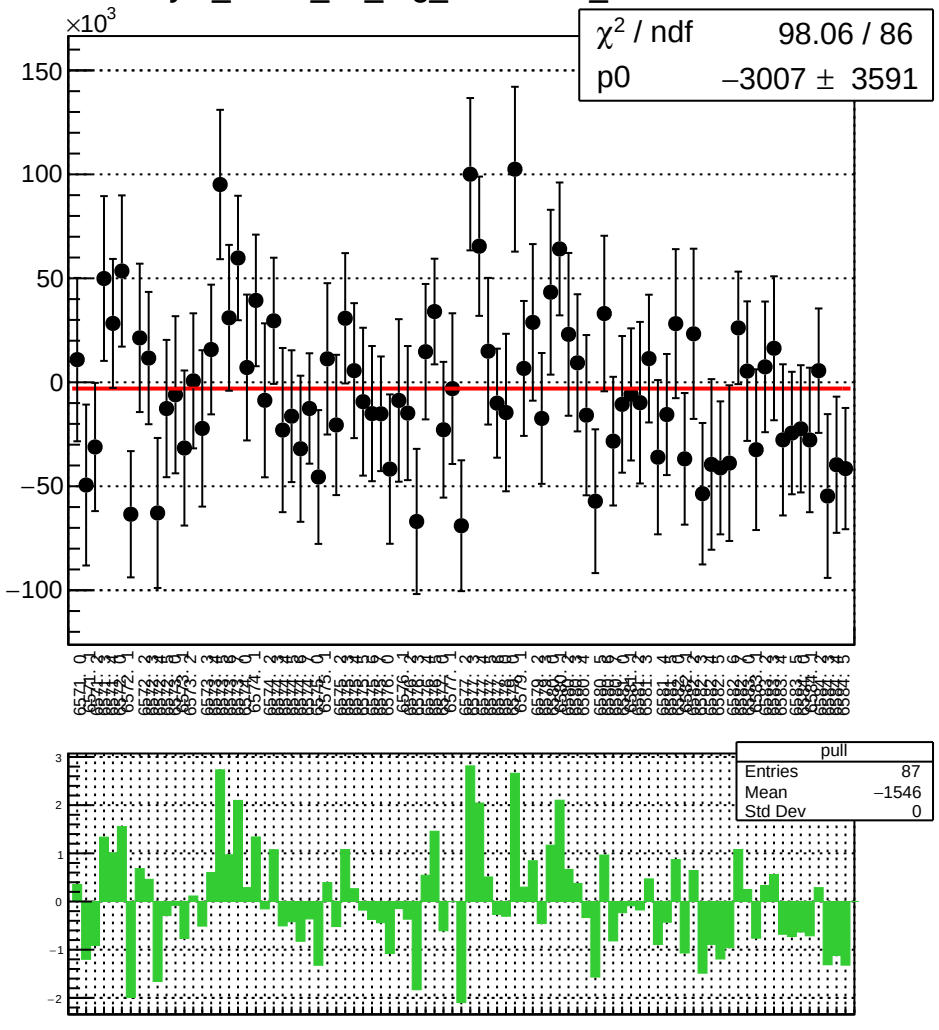

pull1D
Entries 87
Mean 0.03907
Std Dev 0.9817

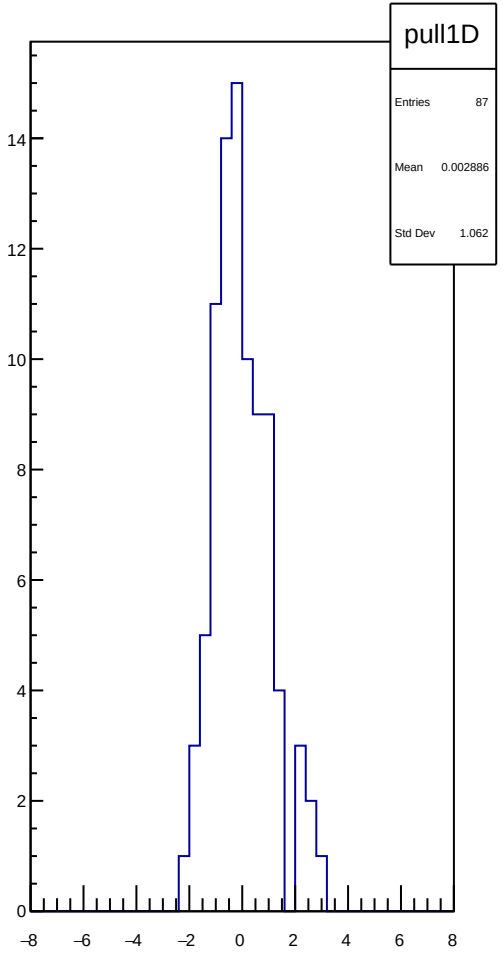

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.47e+05 / 86
p0 3.346e−11 ± 3.281e−14
0.3
0.25
0.2
0.15
0.1
0.05

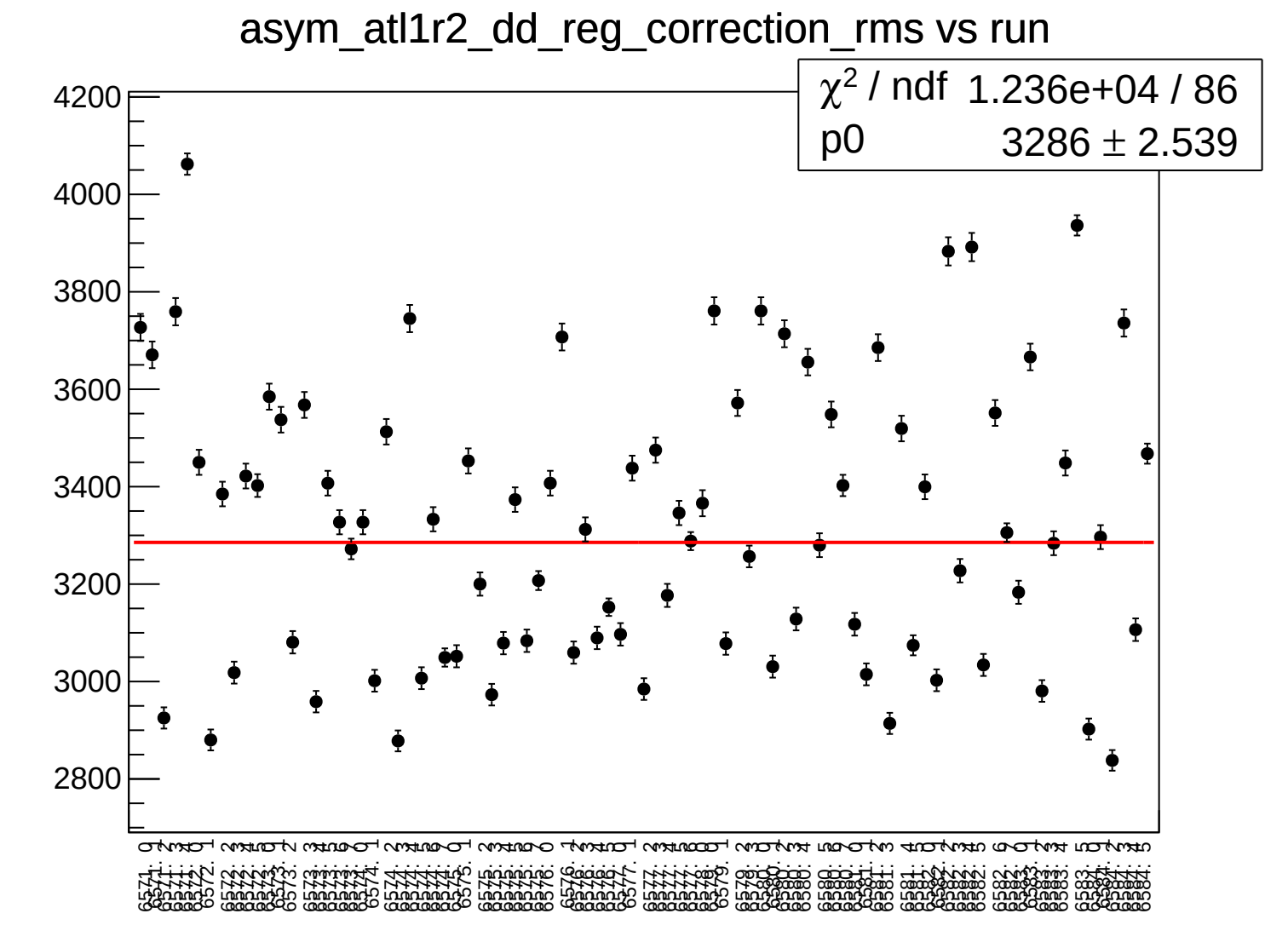

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 102 / 86
p0 1598 ± 1939
pull
Entries 87
Mean 43.49
Std Dev 26.63

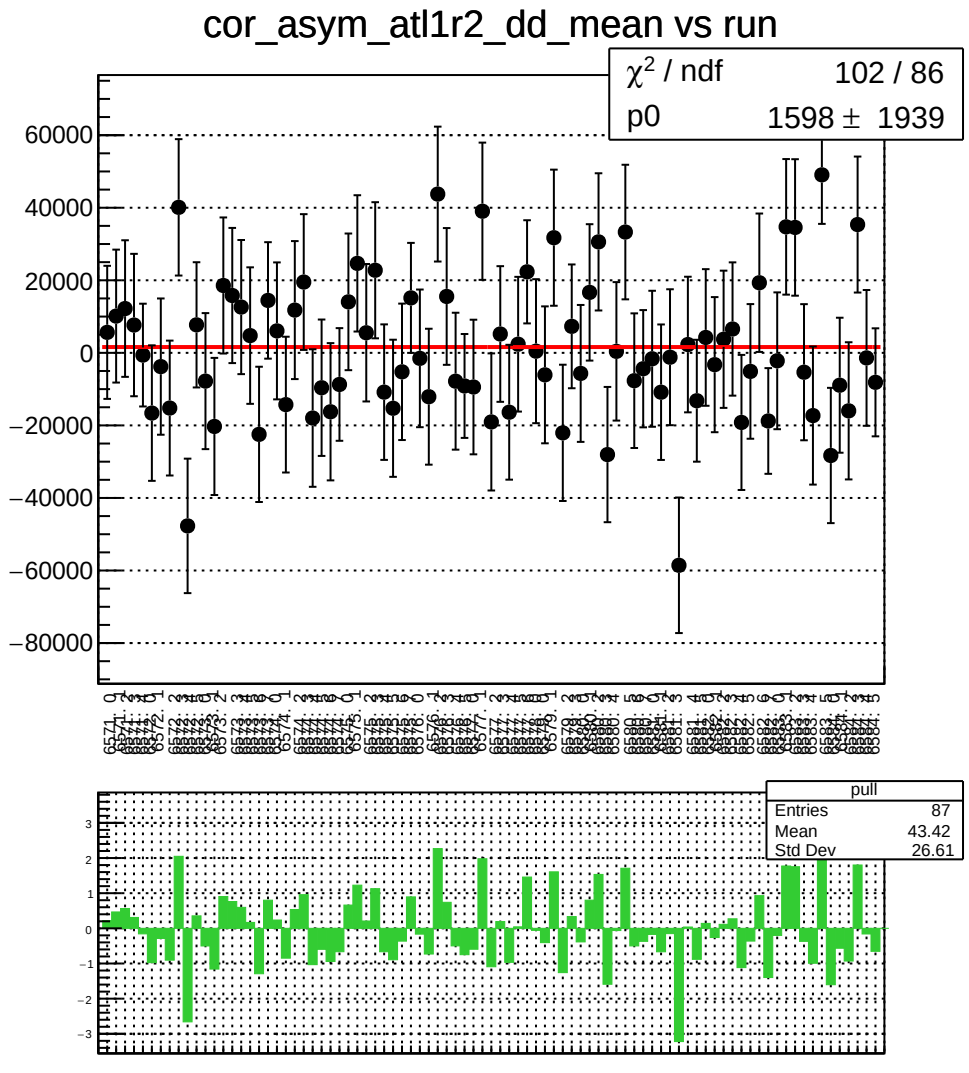

pull1D
Entries 87
Mean −0.01176
Std Dev 1.083

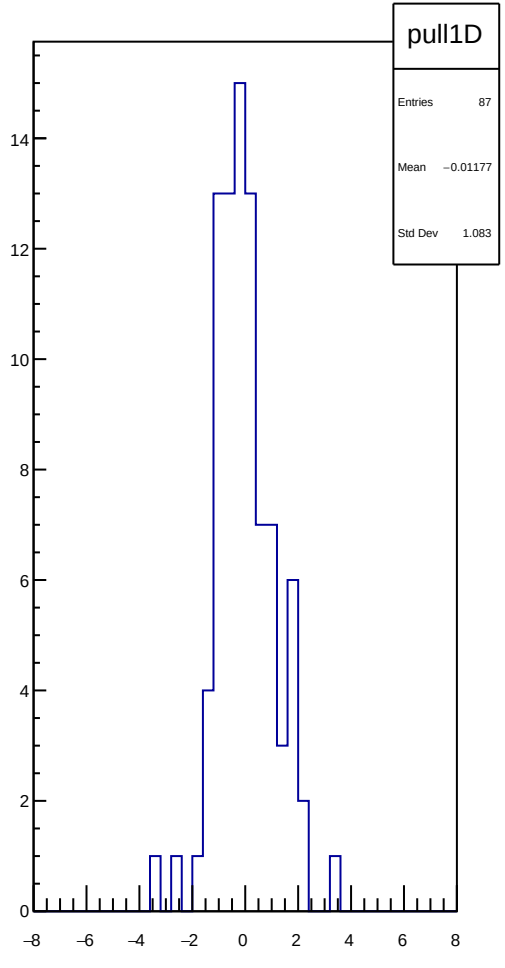

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 206.7 / 86
p0 1780 ± 1.371
1880
1860
1840
1820
1800
1780
1760
1740
1720

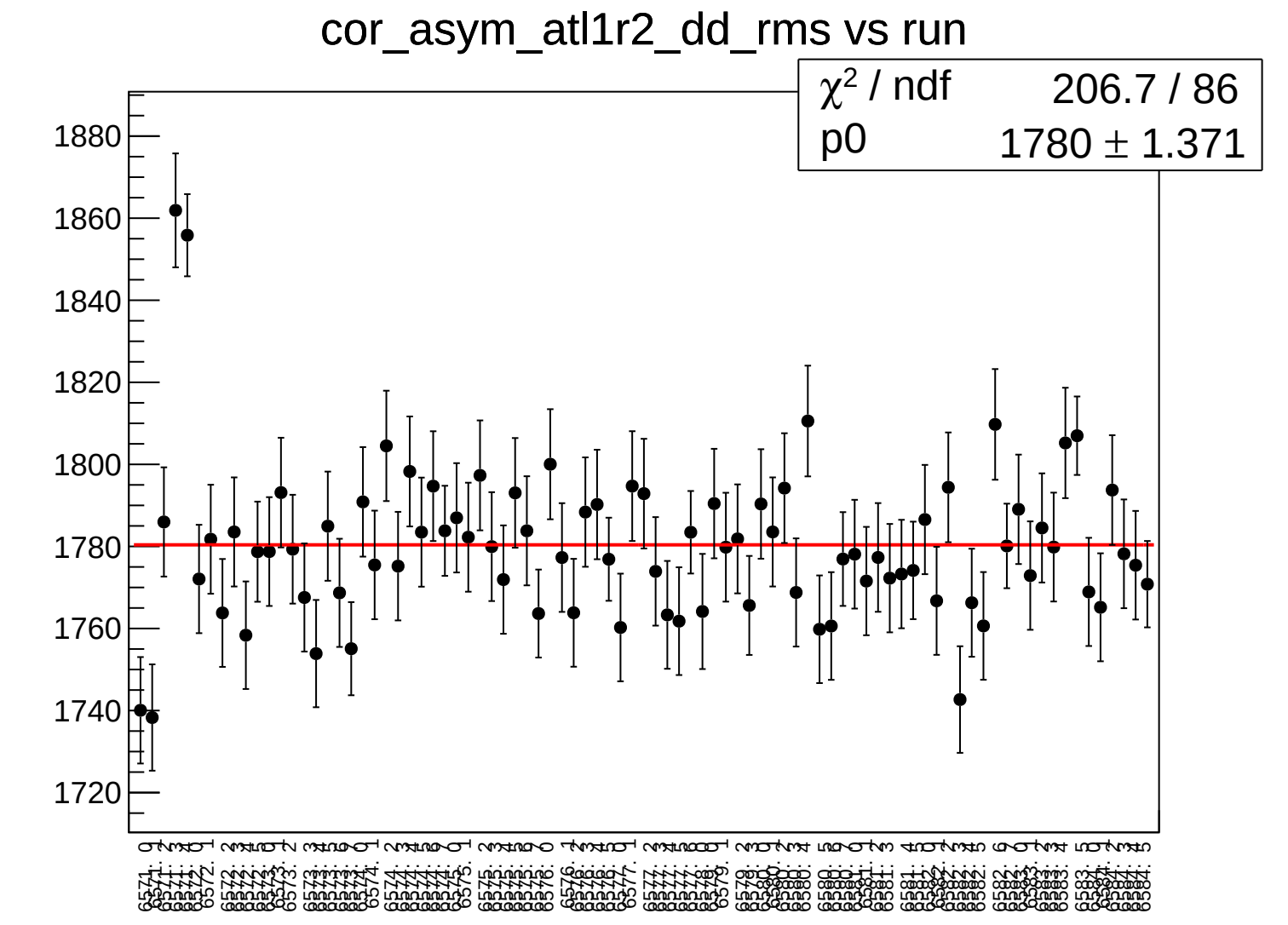

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 98.06 / 86
p0 −3007 ± 3591
150
100
50
0
−50
−100
pull
Entries 87
Mean −1546
Std Dev 0
3
2
1
0
−1
−2

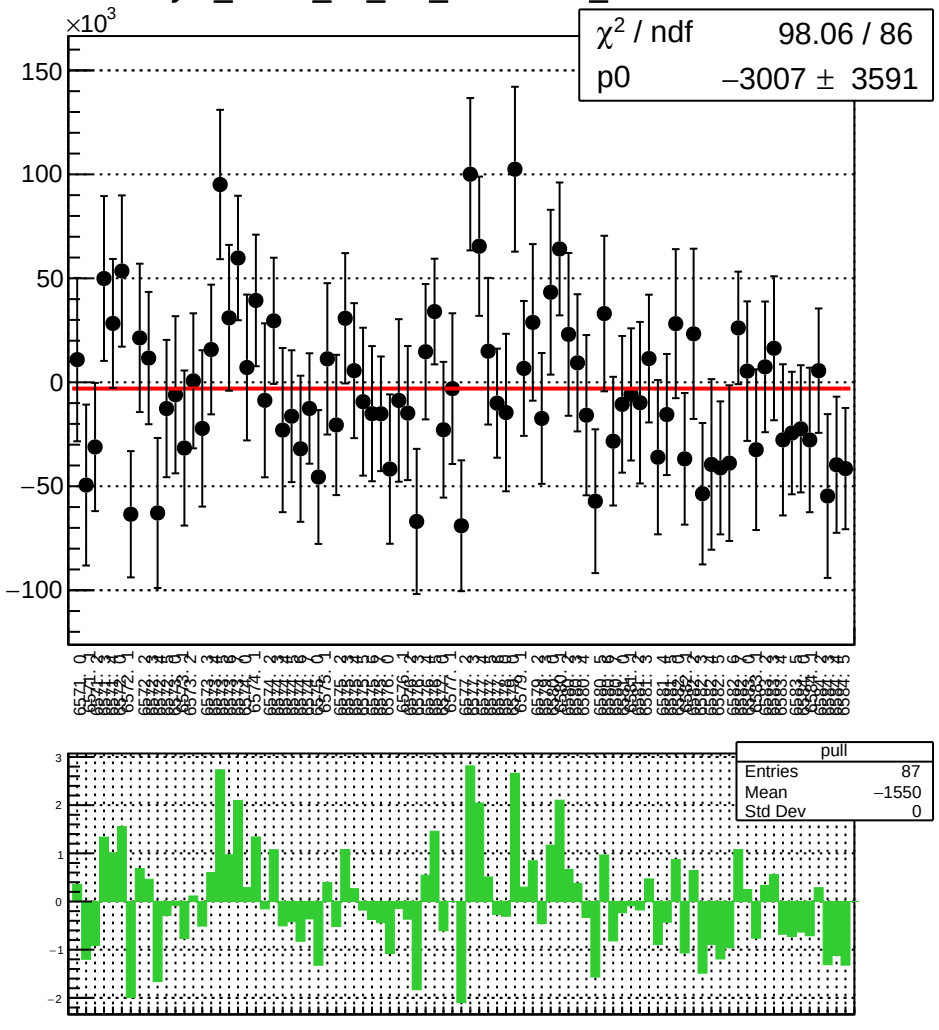

pull1D
Entries 87
Mean 0.002886
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

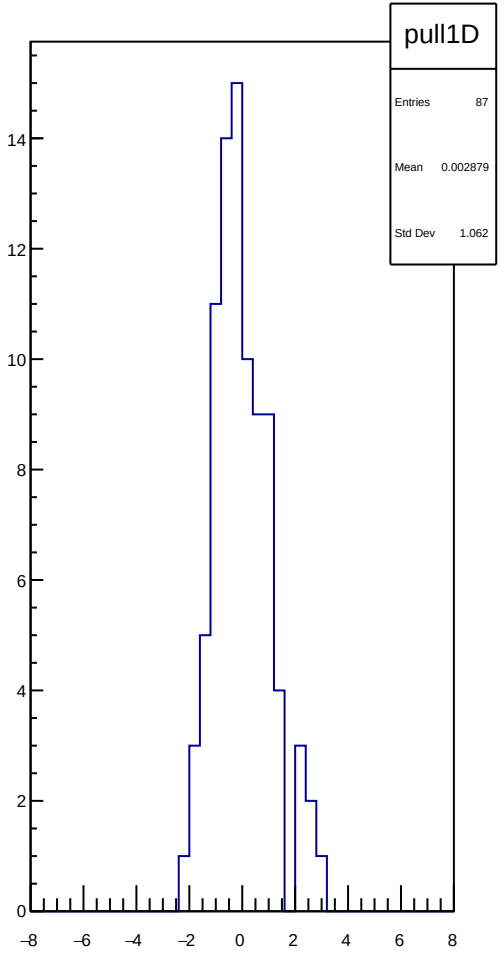

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1.236e+04 / 86
p0 3286 ± 2.539
4200
4000
3800
3600
3400
3200
3000
2800

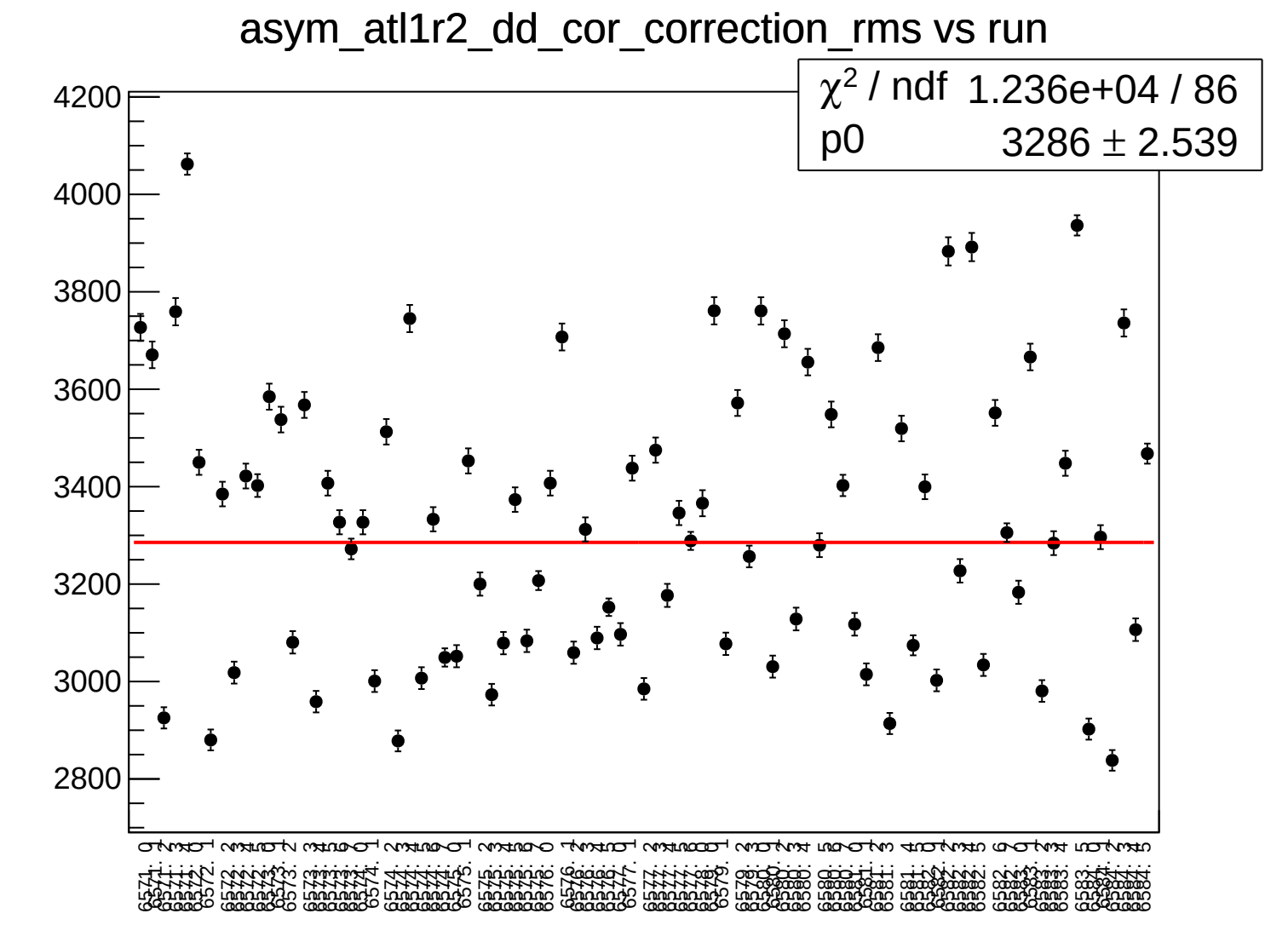

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 102 / 86
p0 1598 ± 1939
pull
Entries 87
Mean 43.42
Std Dev 26.61

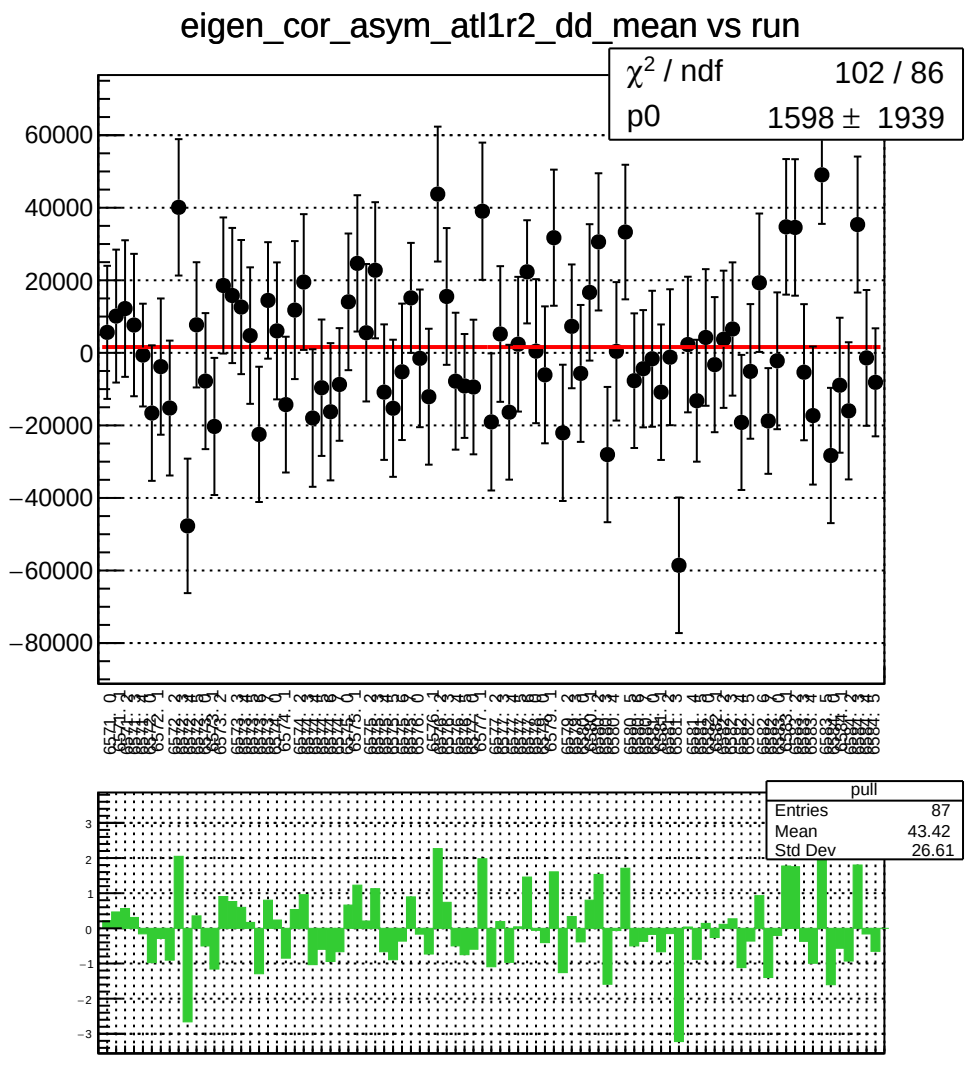

pull1D
Entries 87
Mean −0.01177
Std Dev 1.083

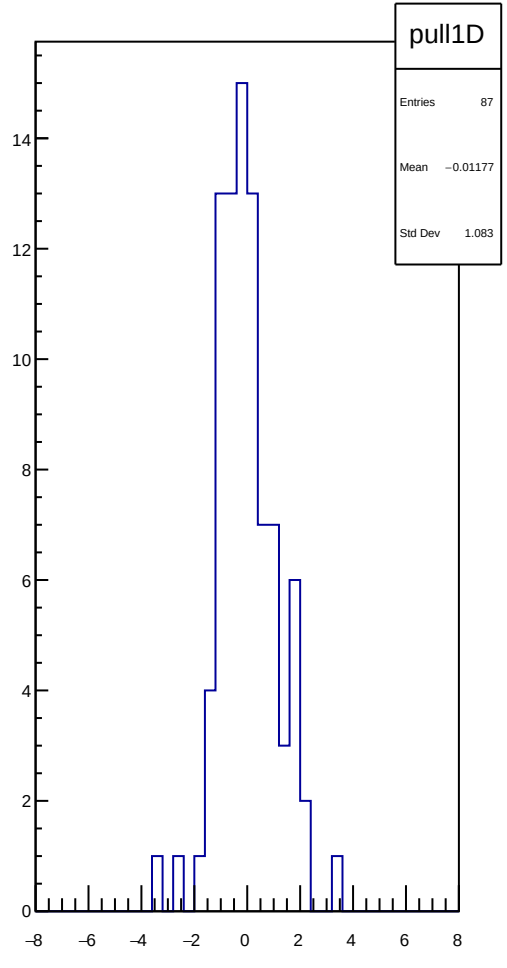

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 206.7 / 86
p0 1780 ± 1.371
1880
1860
1840
1820
1800
1780
1760
1740
1720

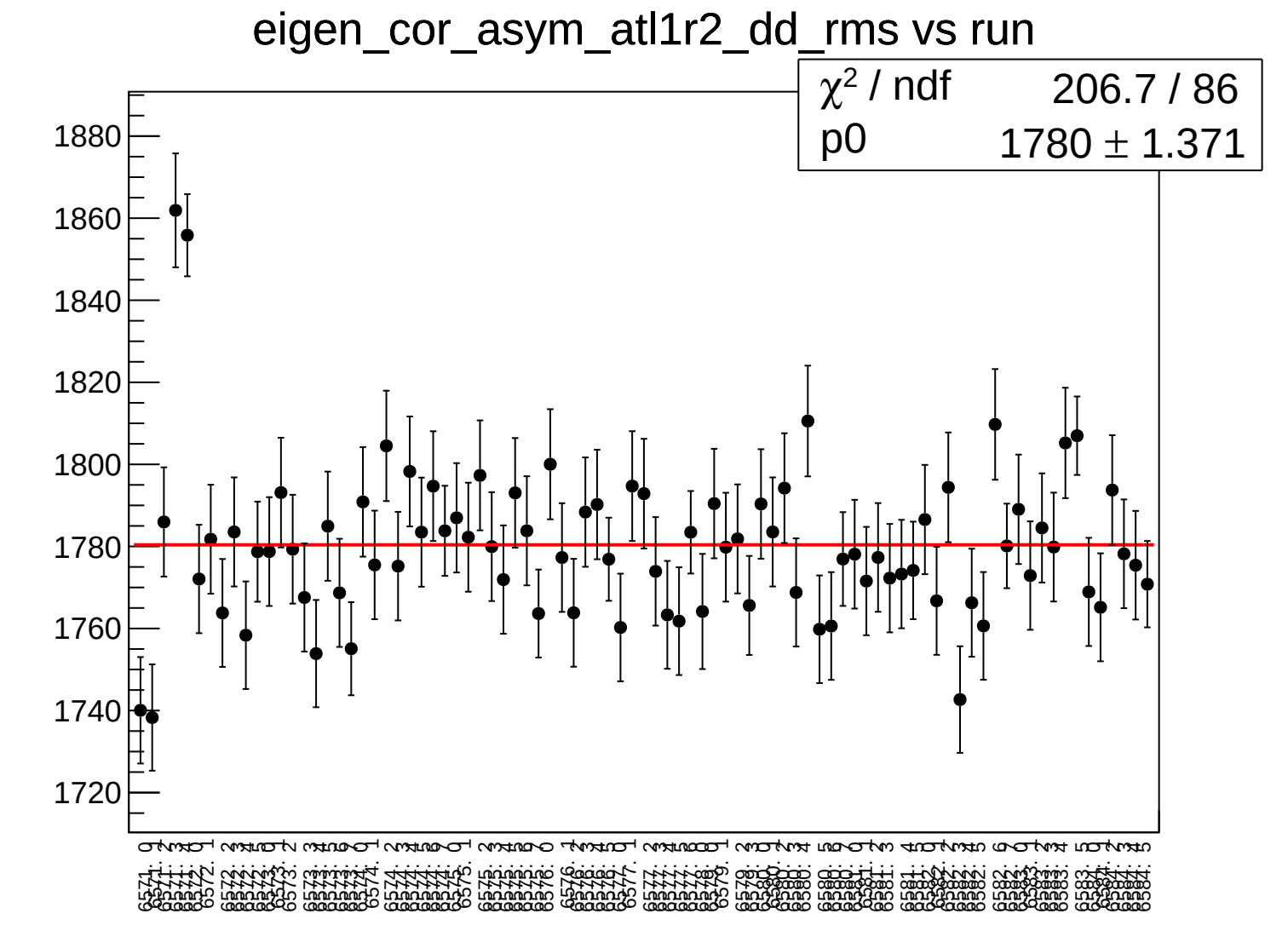

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.06 / 86
p0 −3007 ± 3591
150
100
50
0
−50
−100
pull
Entries 87
Mean −1550
Std Dev 0
3
2
1
0
−1
−2

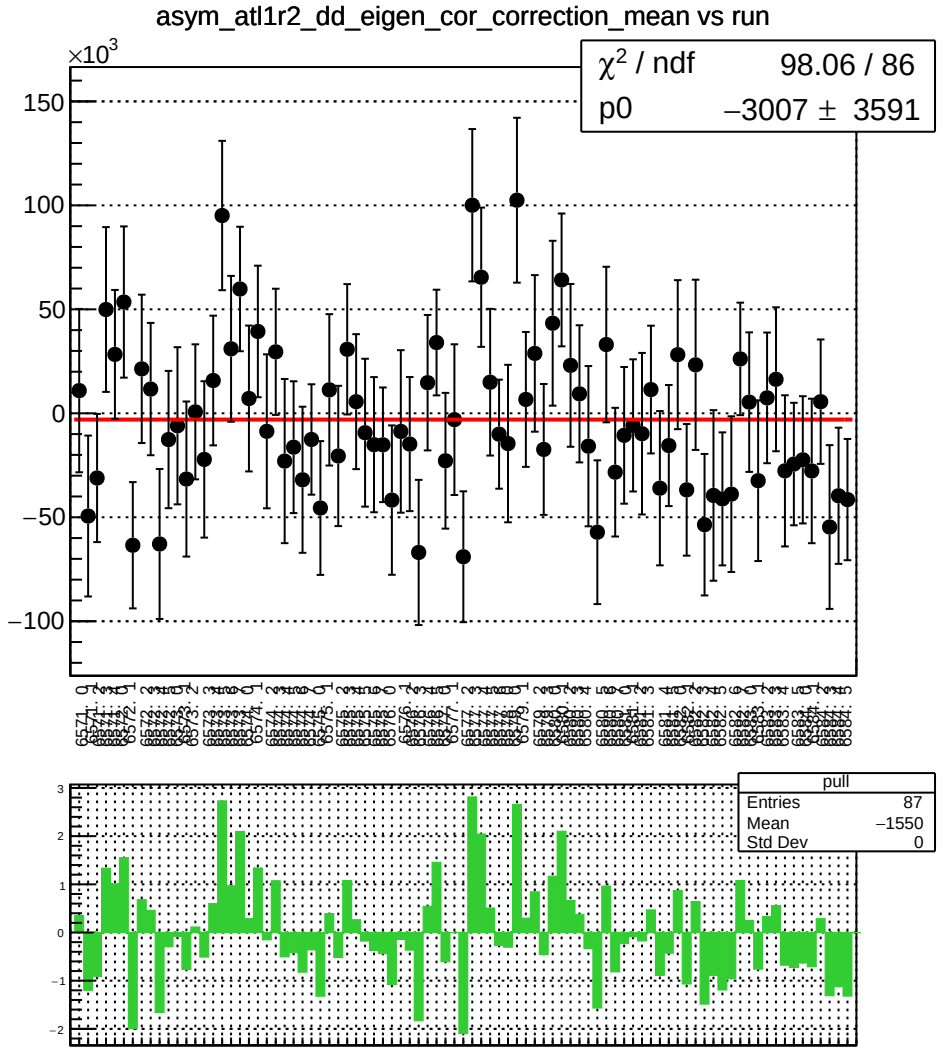

pull1D
Entries 87
Mean 0.002879
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

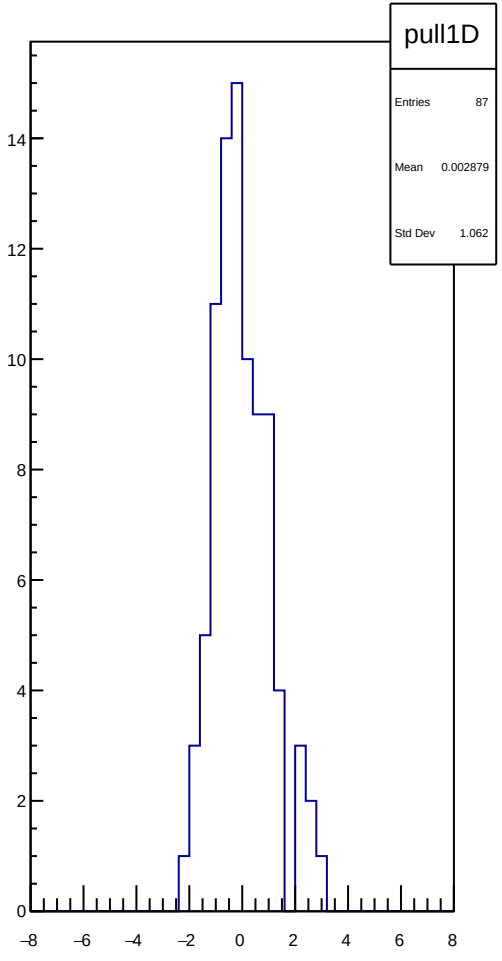

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 1.236e+04 / 86
p0 3286 ± 2.539
4200
4000
3800
3600
3400
3200
3000
2800

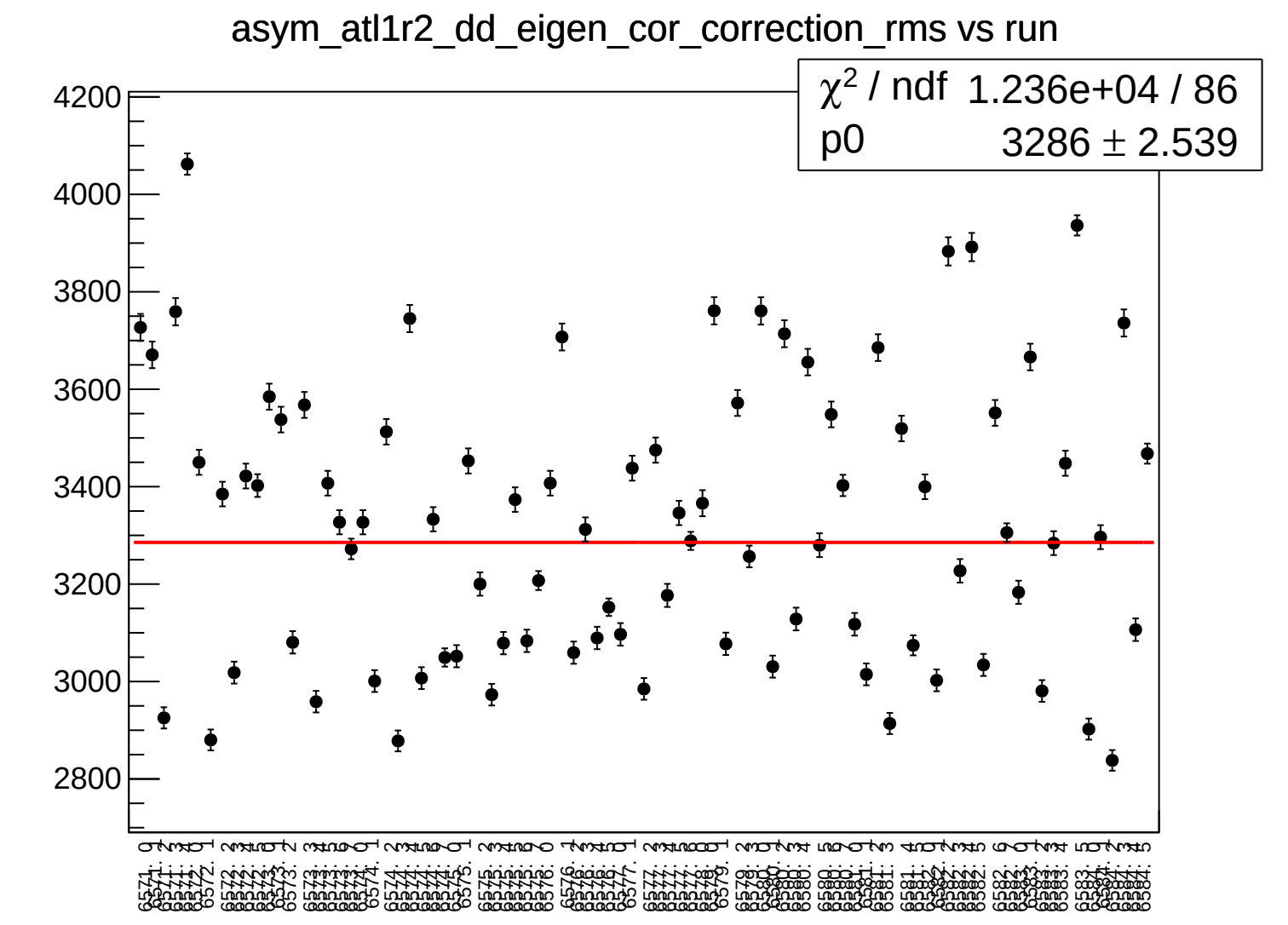

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 102 / 86
p0 1598 ± 1939
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 43.42
Std Dev 26.61
3
2
1
0
−1
−2
−3

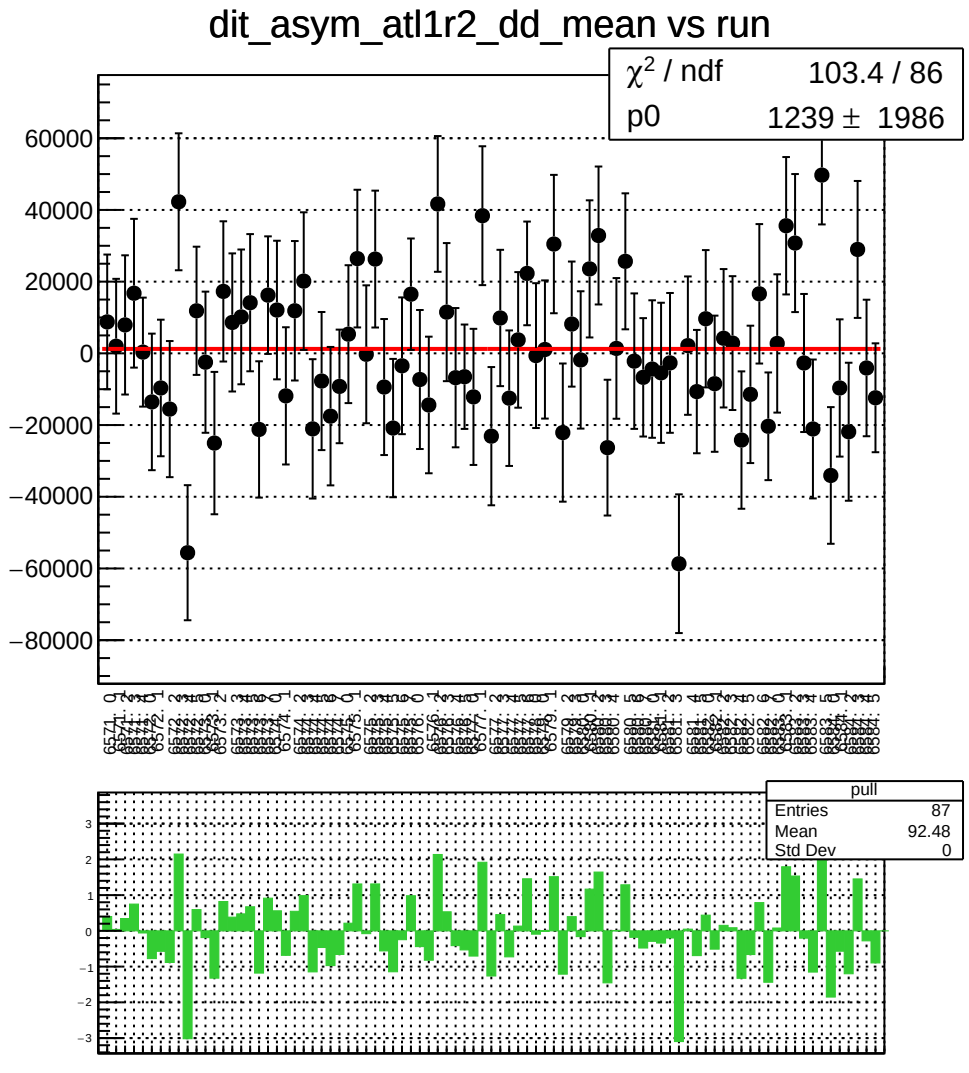

pull1D
Entries 87
Mean −0.01177
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

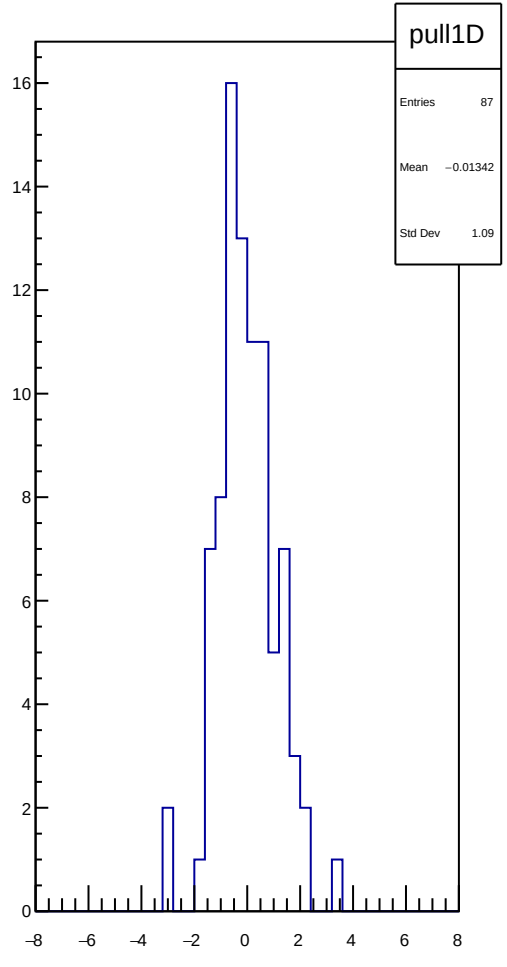

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 206.7 / 86
p0 1780 ± 1.371
1880
1860
1840
1820
1800
1780
1760
1740
1720

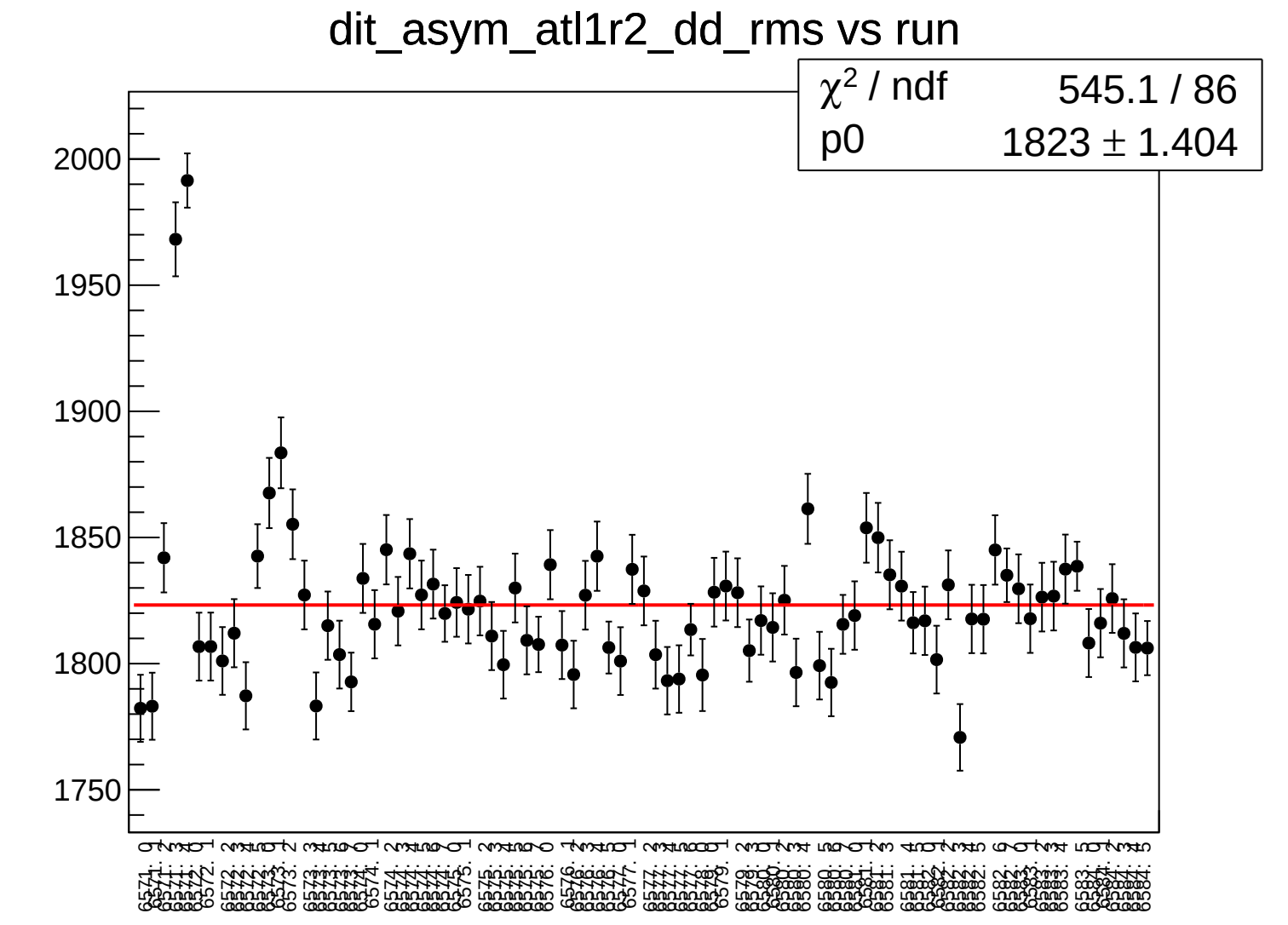

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.06 / 86
p0 −3007 ± 3591
150
100
50
0
−50
−100
pull
Entries 87
Mean −1550
Std Dev 0
3
2
1
0
−1
−2

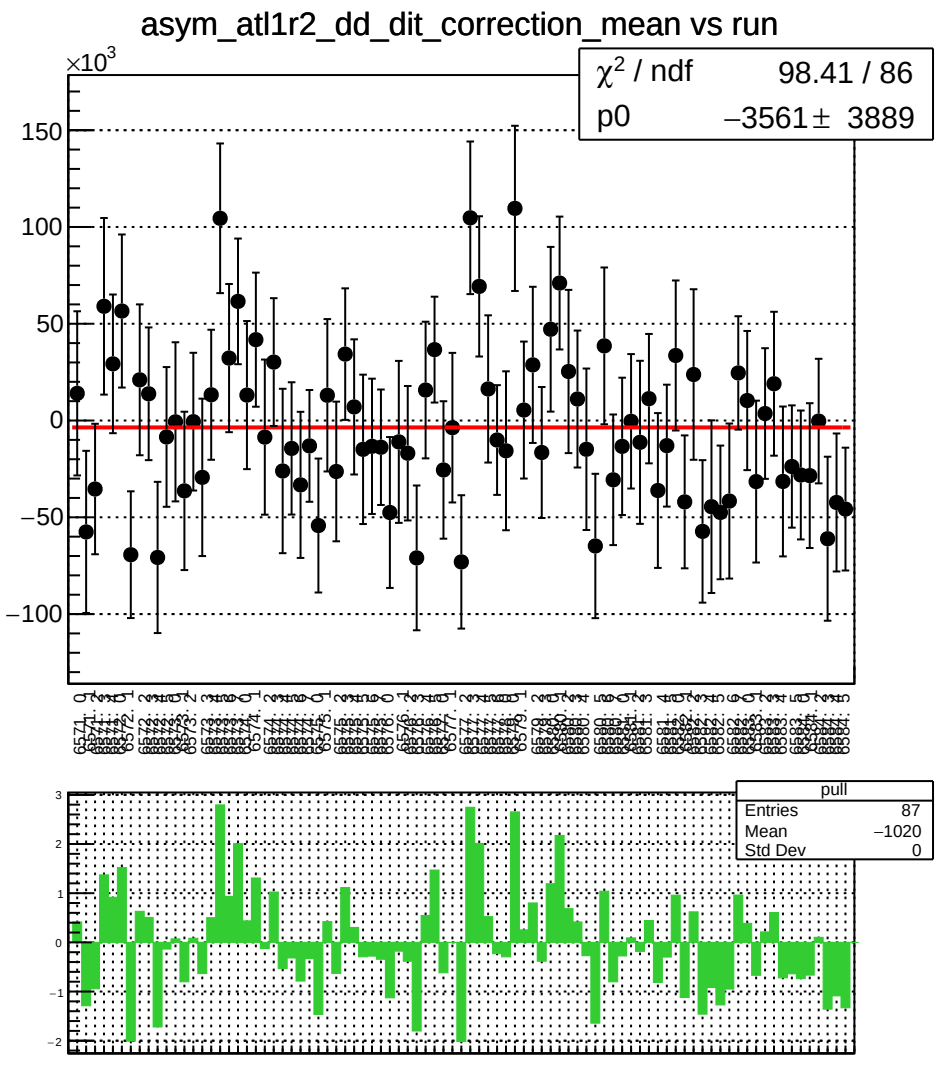

pull1D
Entries 87
Mean 0.002879
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

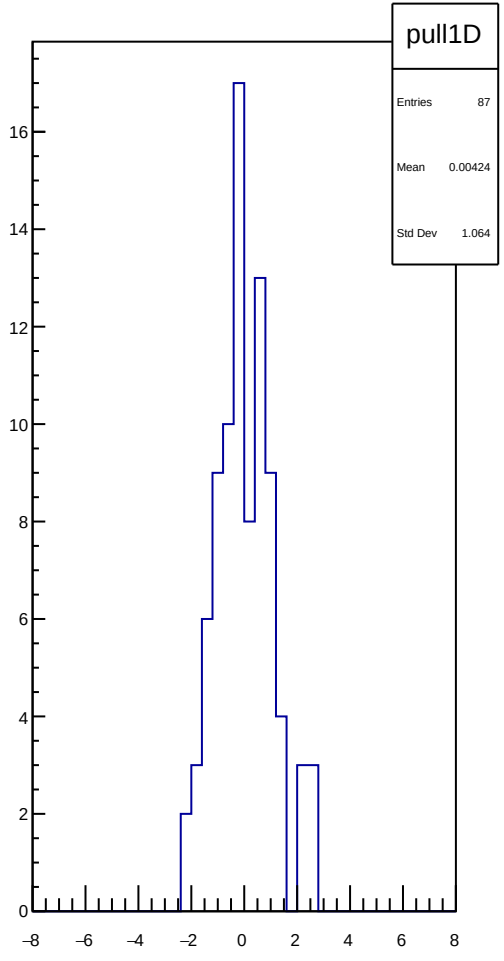

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.236e+04 / 86
p0 3286 ± 2.539
4200
4000
3800
3600
3400
3200
3000
2800

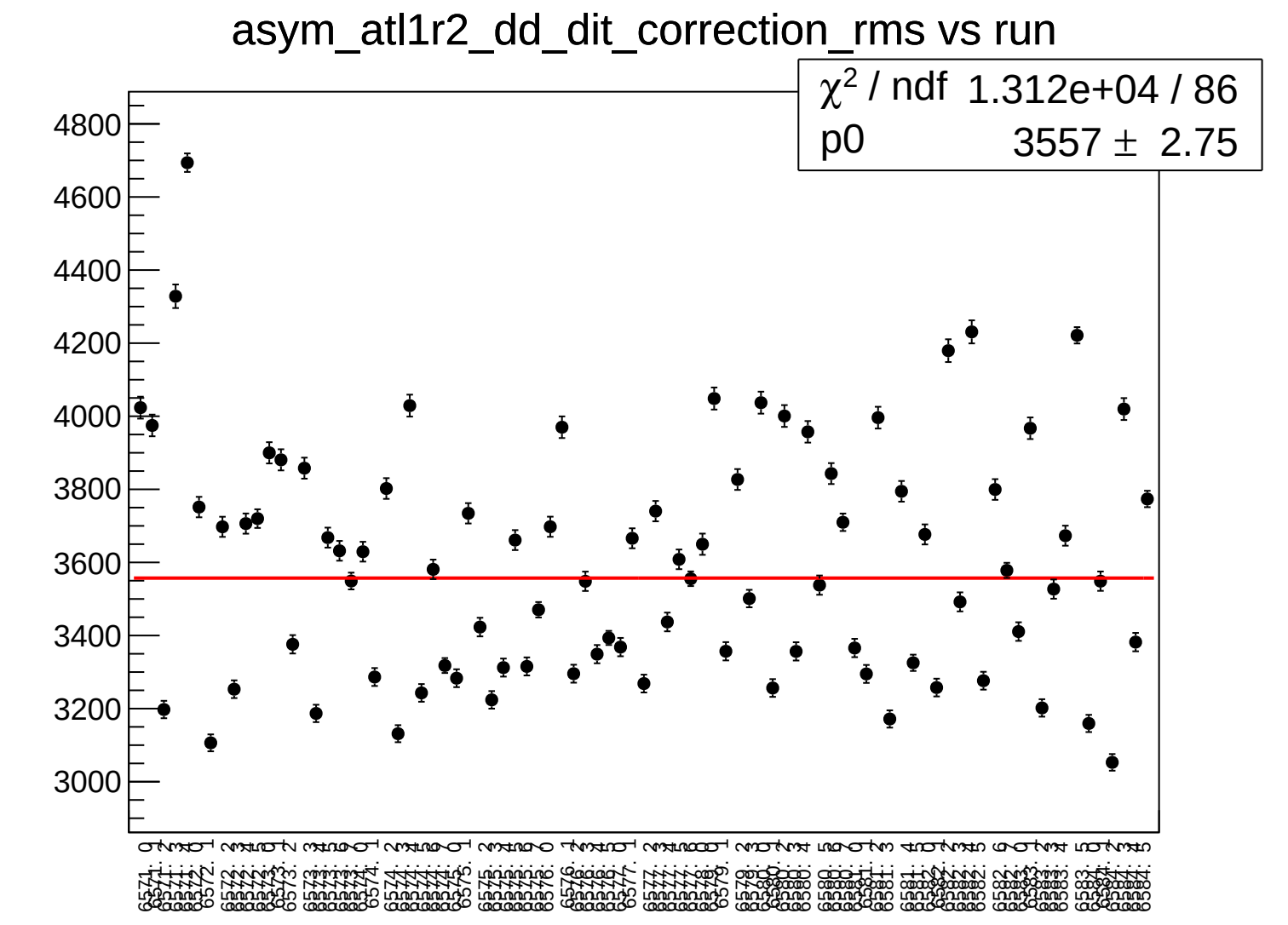

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 103.4 / 86
p0 1239 ± 1986
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 92.48
Std Dev 0
3
2
1
0
−1
−2
−3

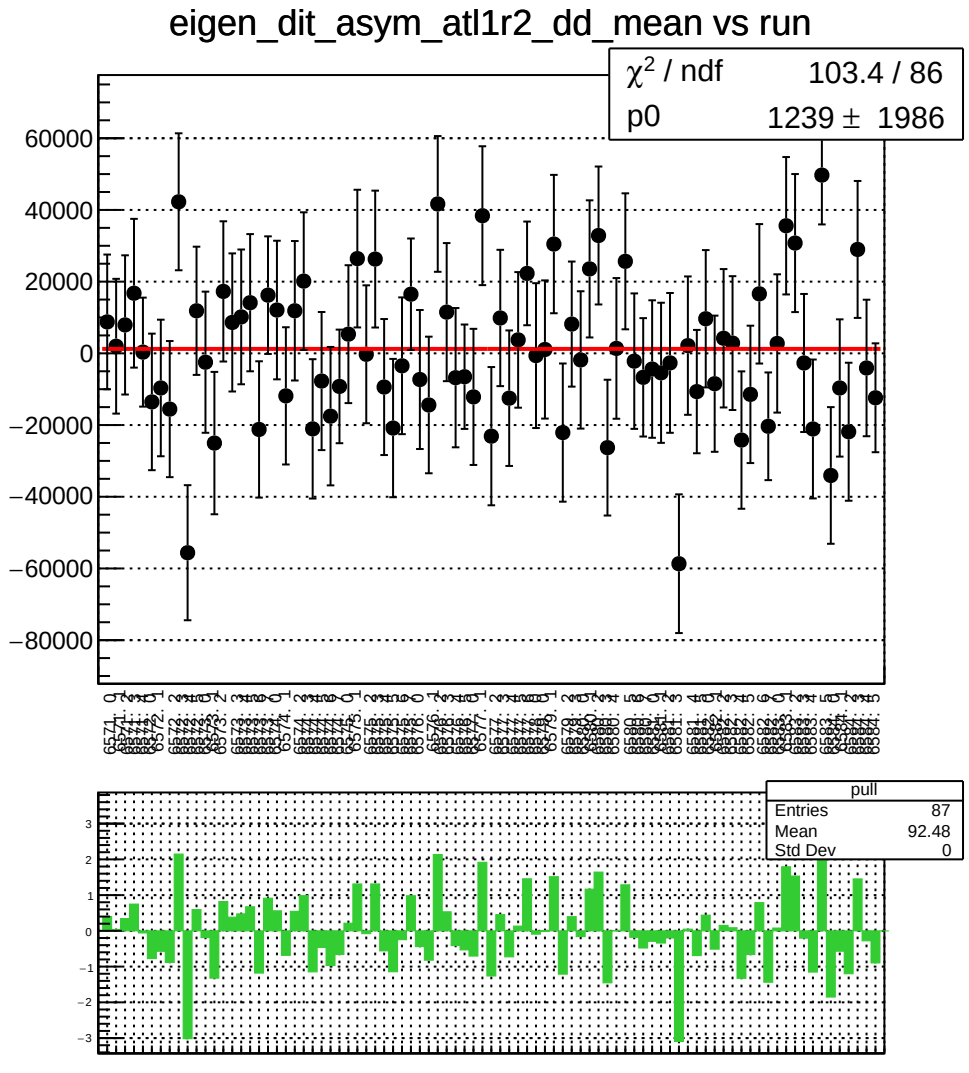

pull1D
Entries 87
Mean −0.01342
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

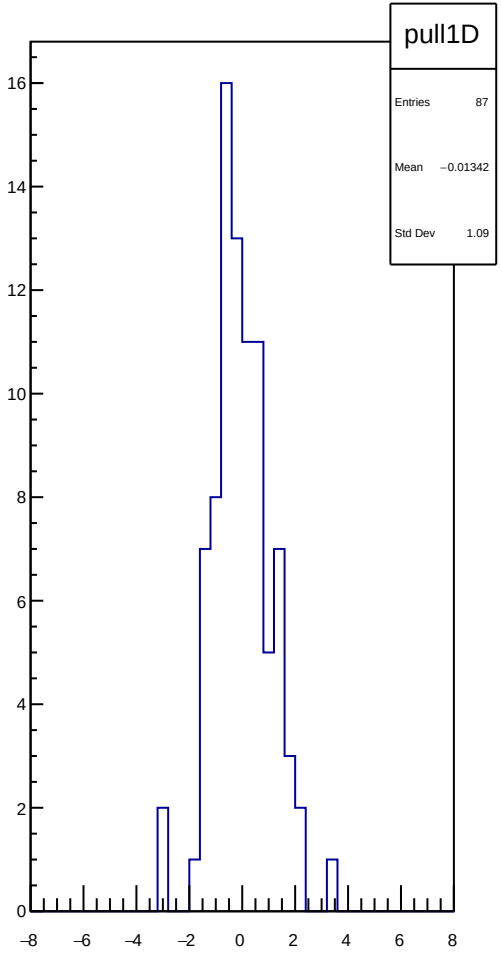

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 545.1 / 86
p0 1823 ± 1.404
2000
1950
1900
1850
1800
1750

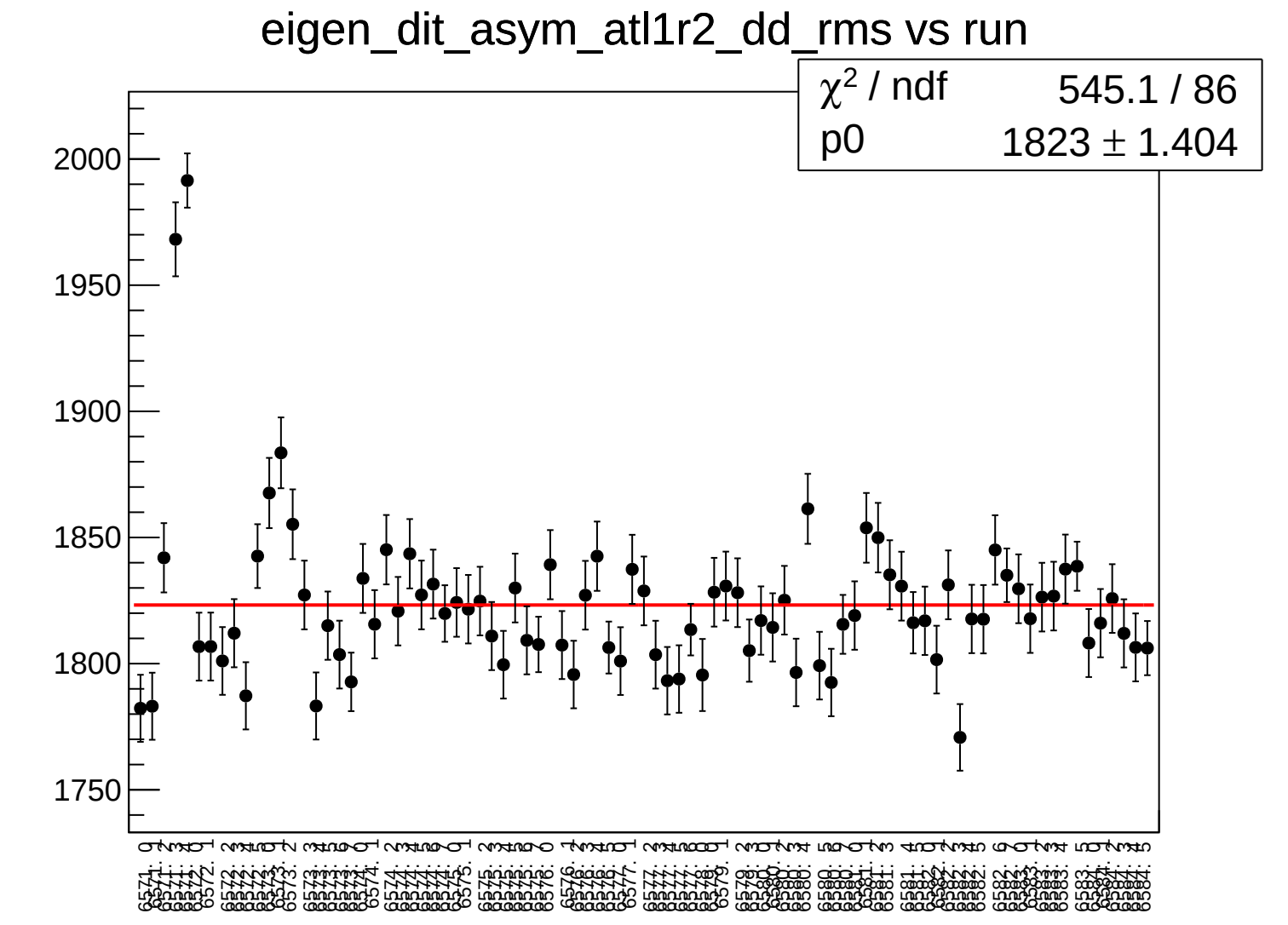

asym_atl1r2_dd_dit_correction_mean vs run
χ² / ndf 98.41 / 86
p0 −3561 ± 3889
×10³
150
100
50
0
−50
−100
pull
Entries 87
Mean −1020
Std Dev 0
3
2
1
0
−1
−2

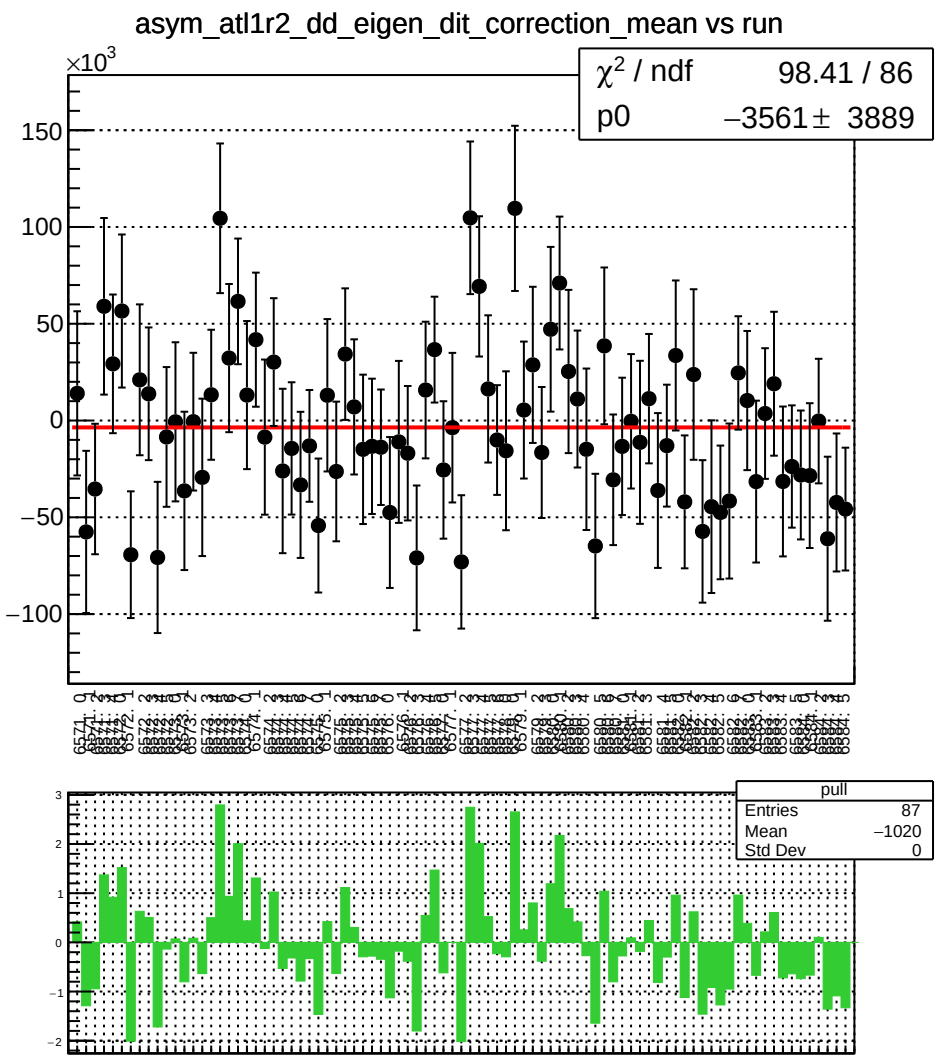

pull1D
Entries 87
Mean 0.00424
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

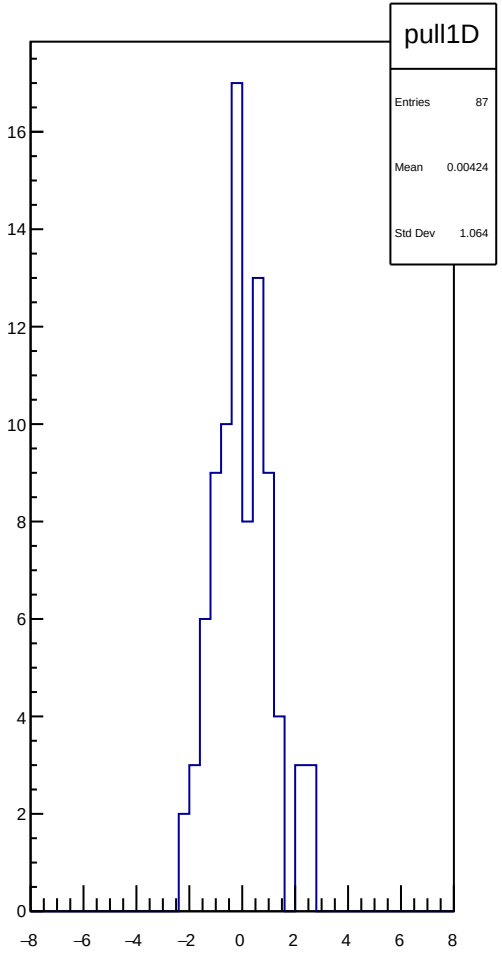

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1.312e+04 / 86
p0 3557 ± 2.75
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

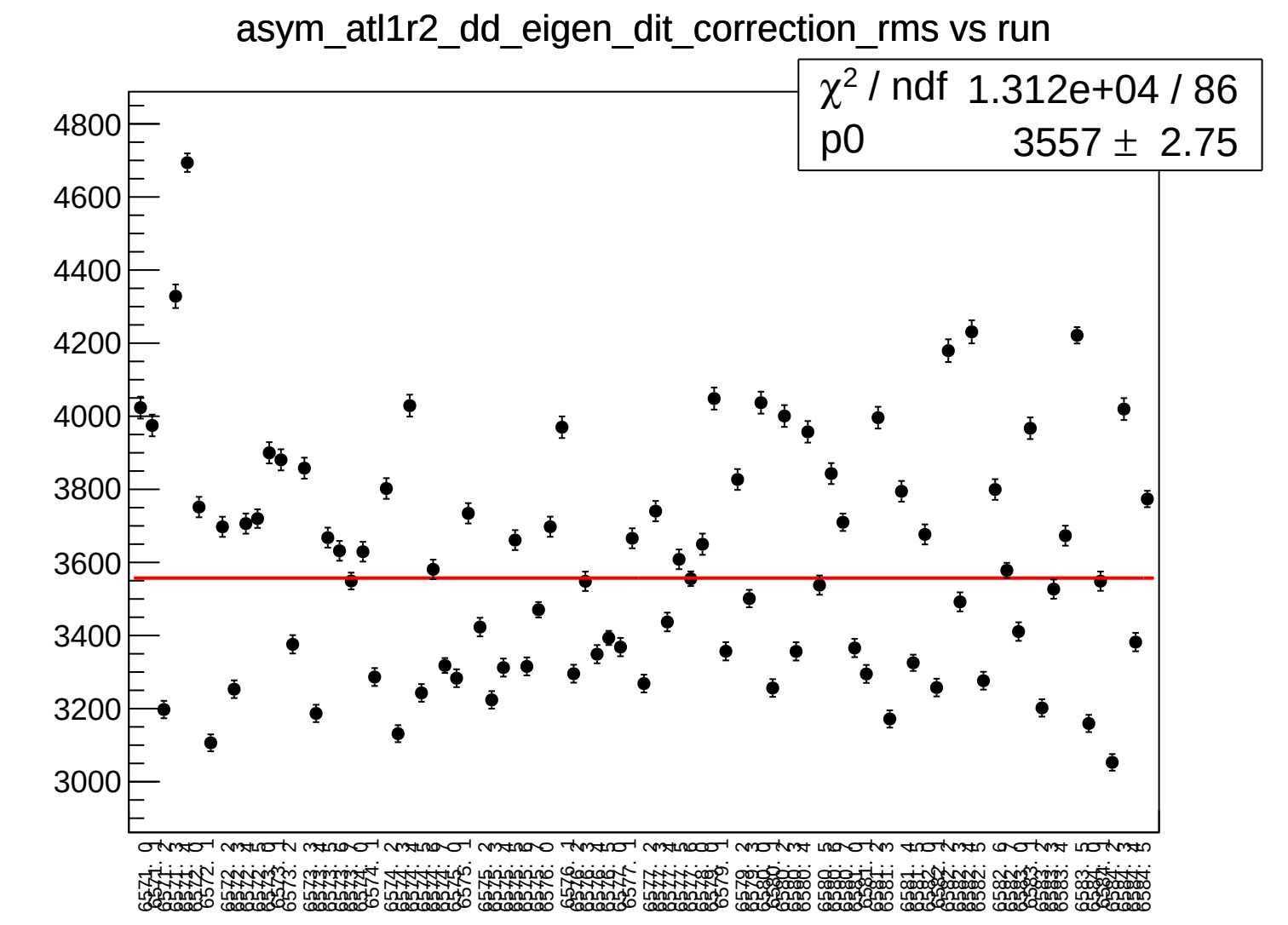

eigen_dit_asym_atl1r2_dd_mean vs run
χ^2 / ndf 103.4 / 86
p0 1239 ± 1986
pull
Entries 87
Mean 92.48
Std Dev 0

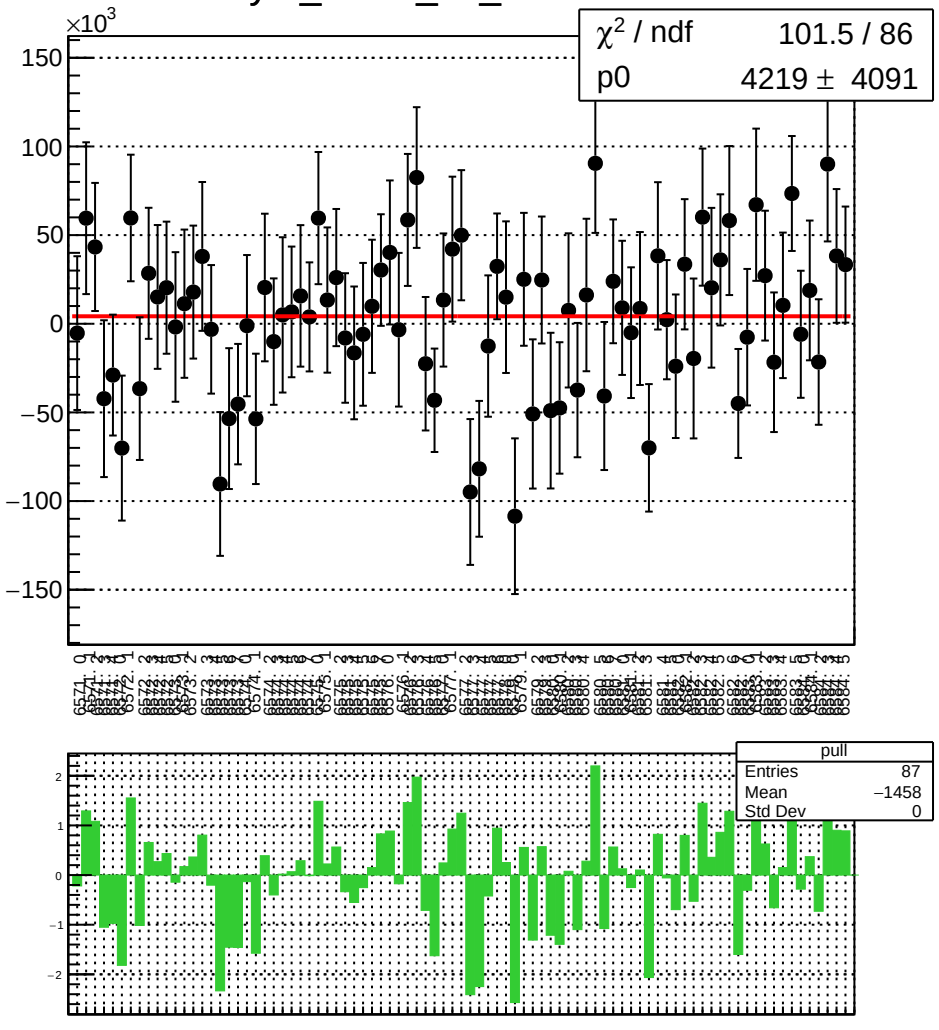

pull1D
Entries 87
Mean −0.01342
Std Dev 1.09

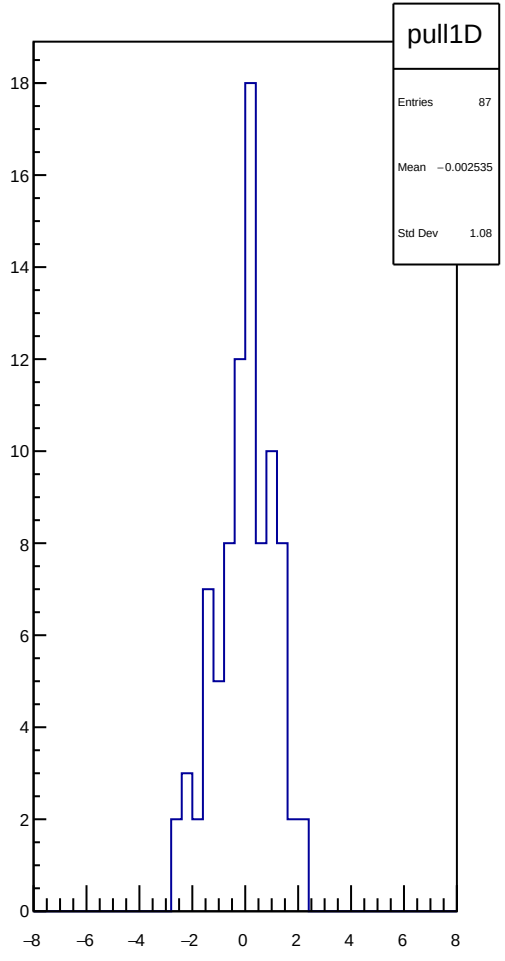

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 545.1 / 86
p0 1823 ± 1.404
2000
1950
1900
1850
1800
1750

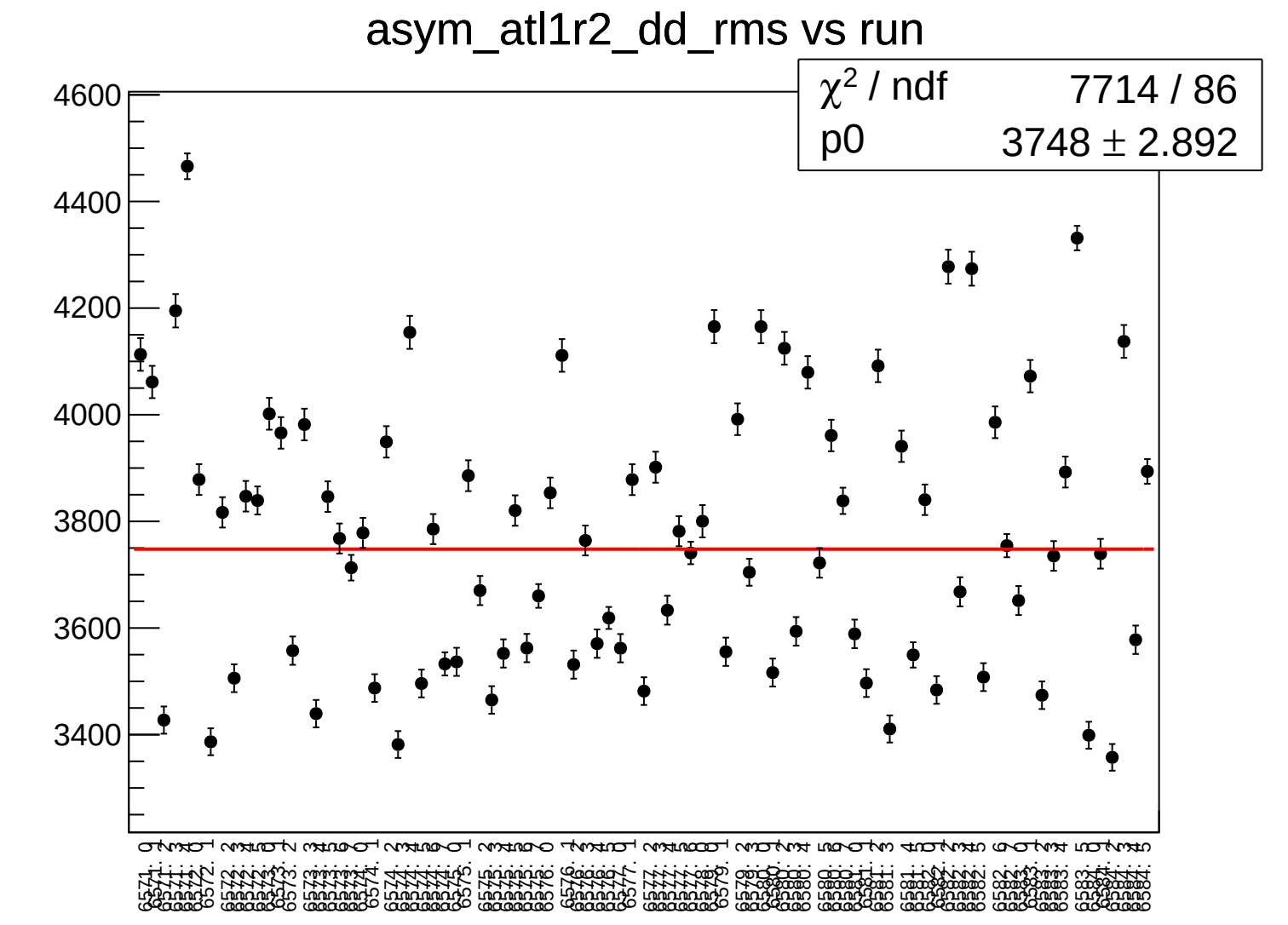

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.41 / 86
p0 −3561 ± 3889
150
100
50
0
−50
−100
pull
Entries 87
Mean −1020
Std Dev 0
3
2
1
0
−1
−2

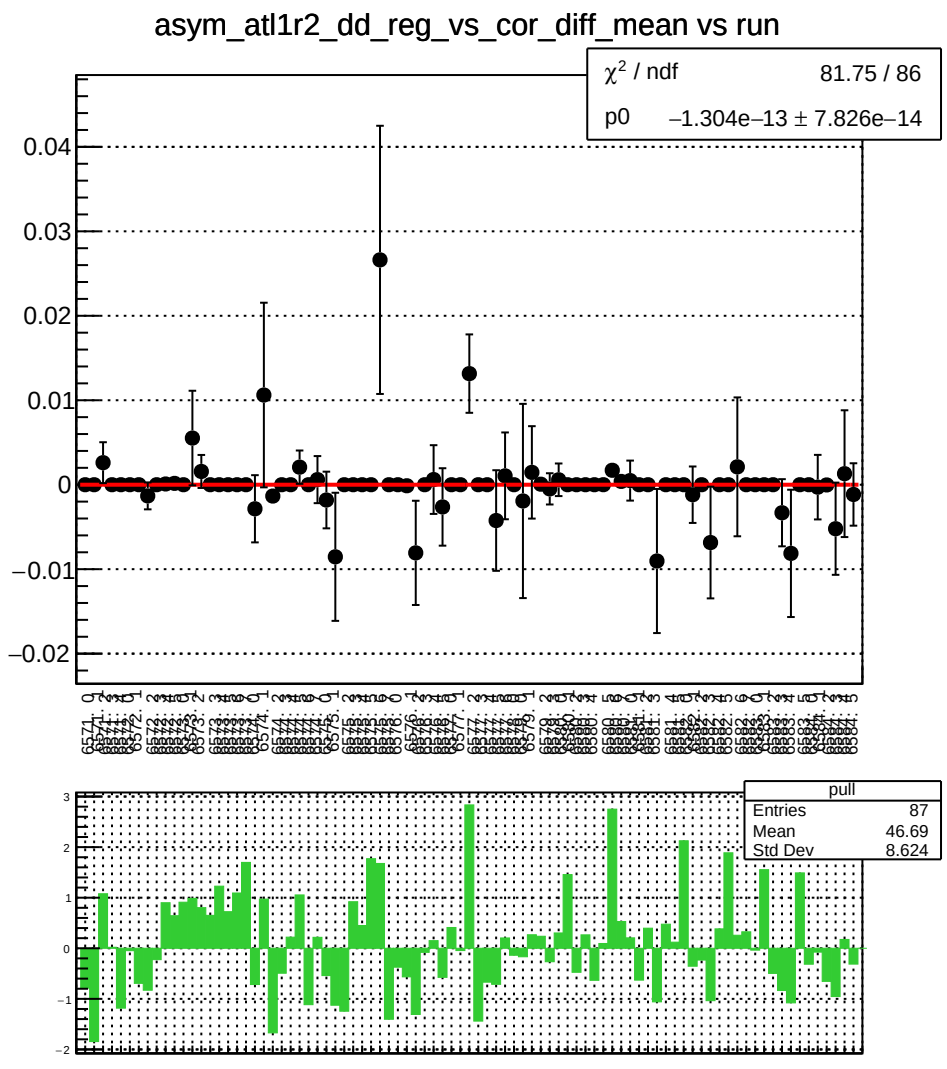

pull1D
Entries 87
Mean 0.00424
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

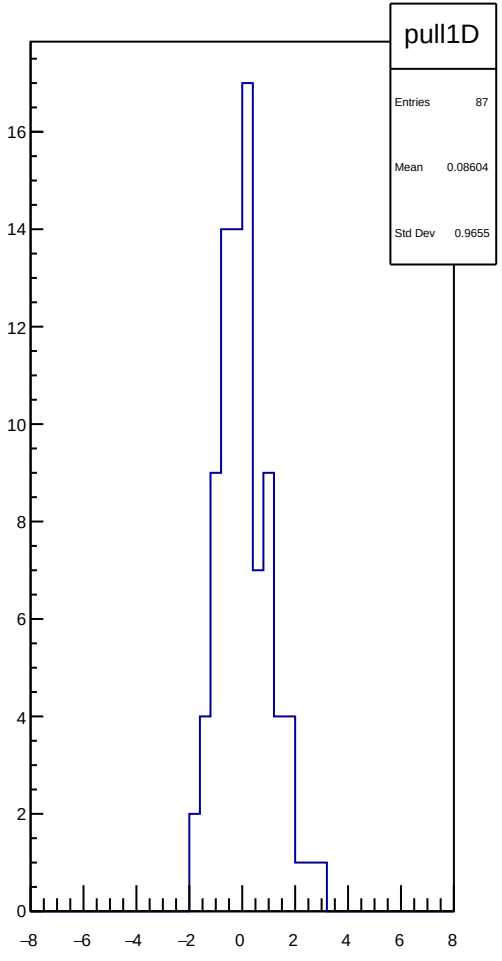

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.312e+04 / 86
p0 3557 ± 2.75
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

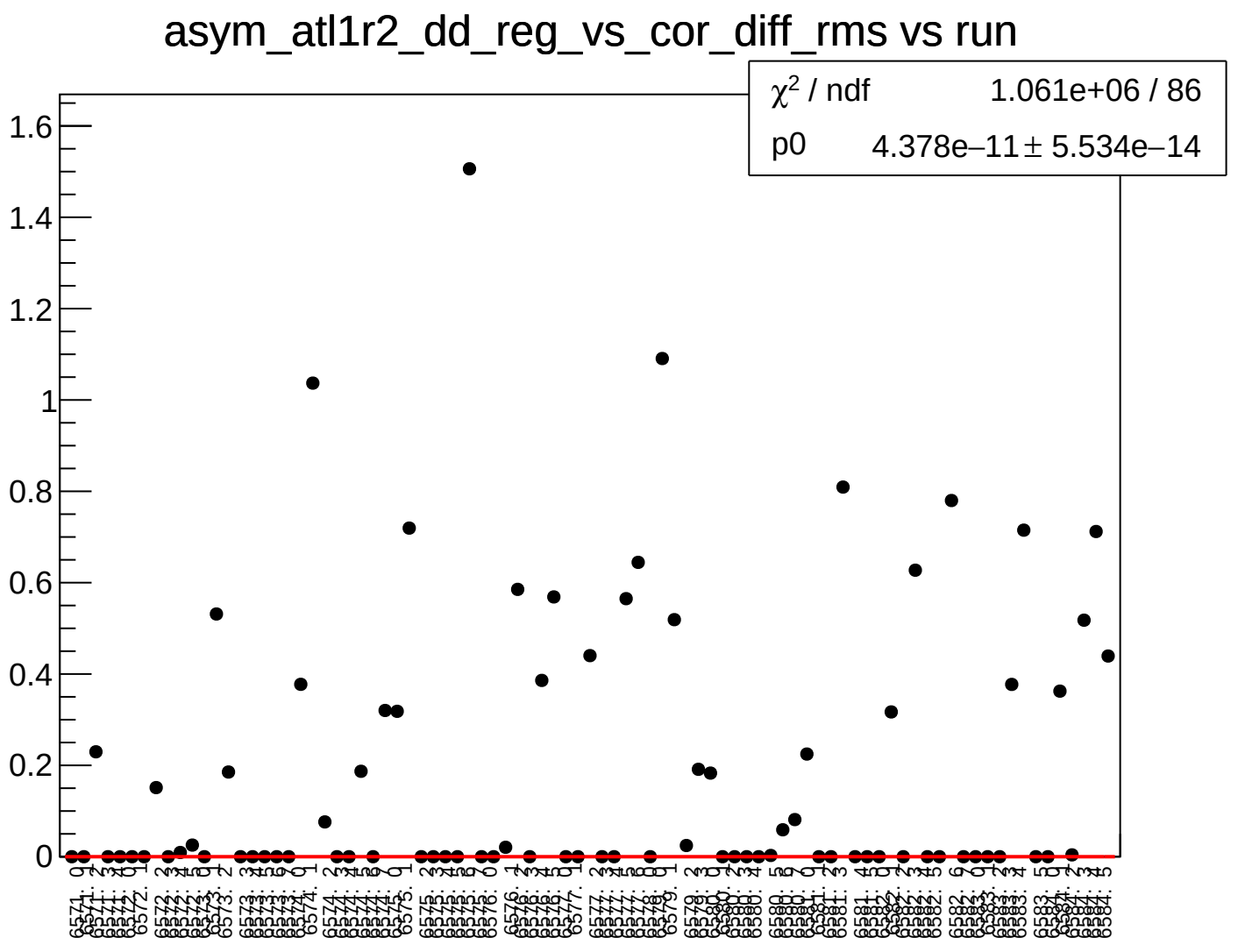

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 101.5 / 86
p0 4219 ± 4091
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −1458
Std Dev 0
2
1
0
−1
−2

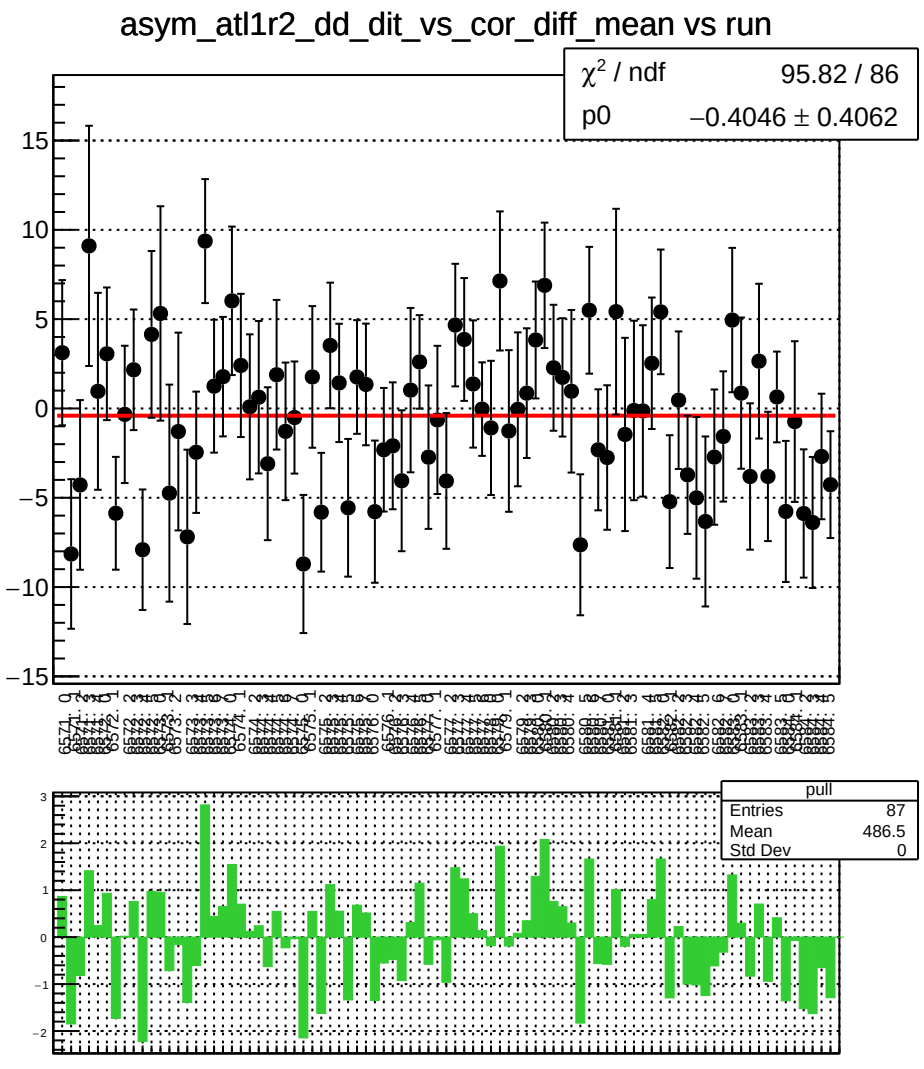

pull1D
Entries 87
Mean −0.002535
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

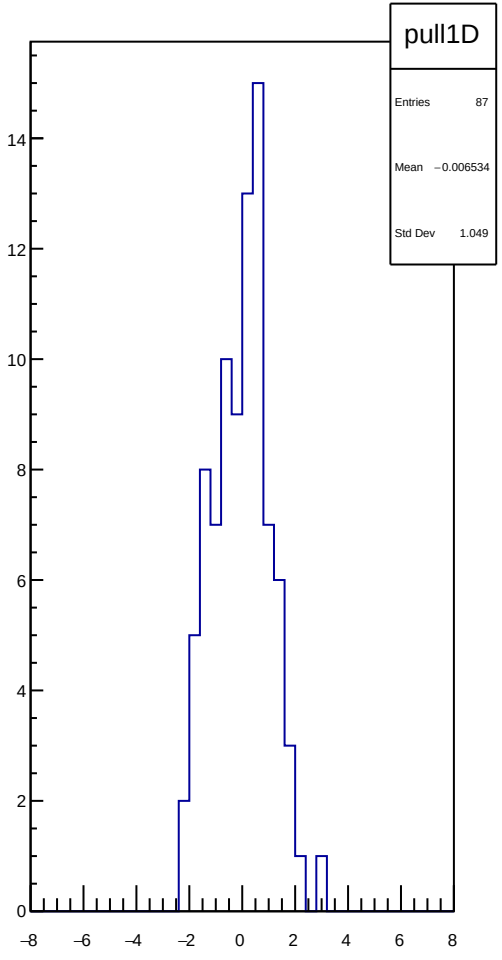

asym_atl1r2_dd_rms vs run
χ² / ndf 7714 / 86
p0 3748 ± 2.892
4600
4400
4200
4000
3800
3600
3400

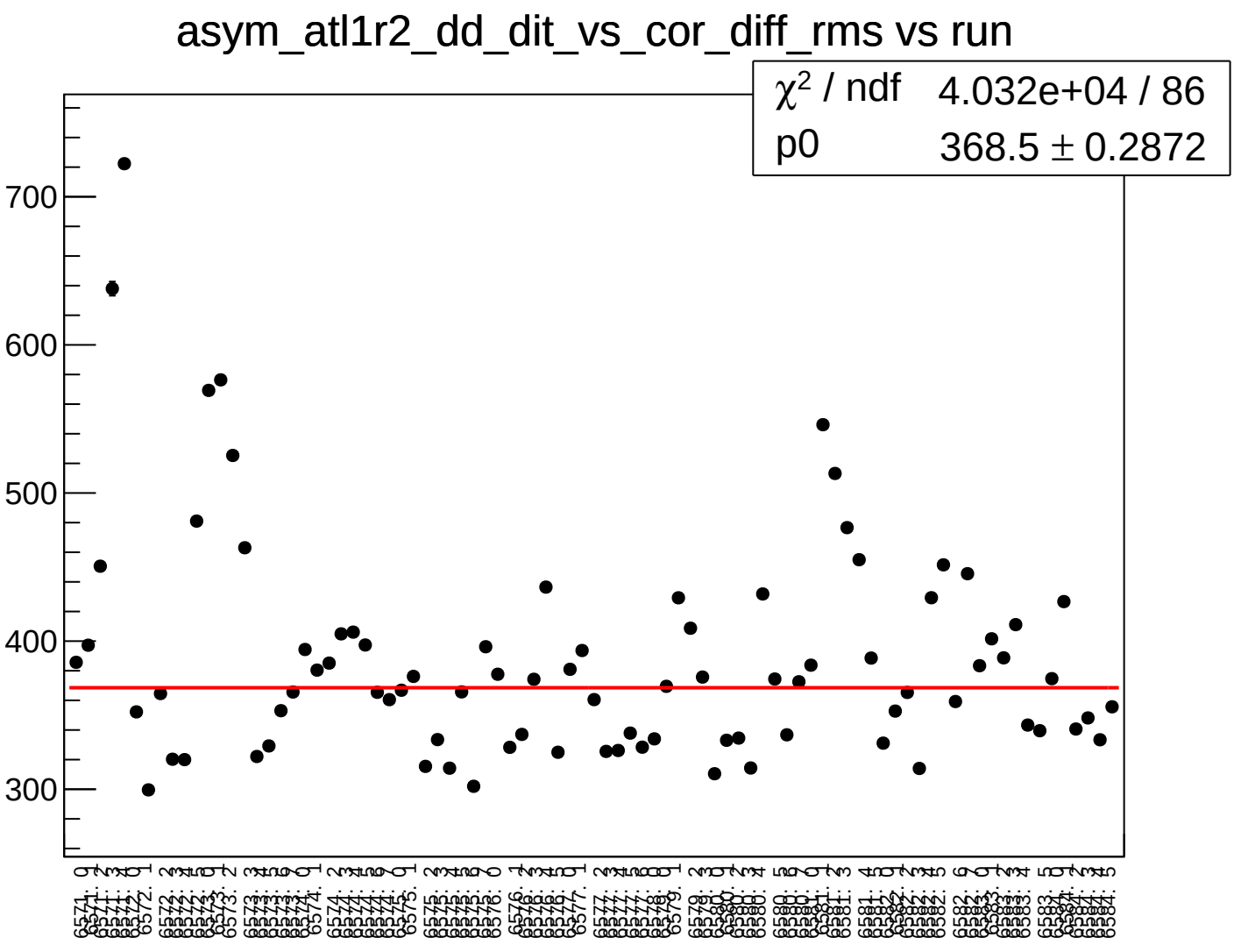

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.75 / 86
p0 −1.304e−13 ± 7.826e−14
pull
Entries 87
Mean 46.69
Std Dev 8.624

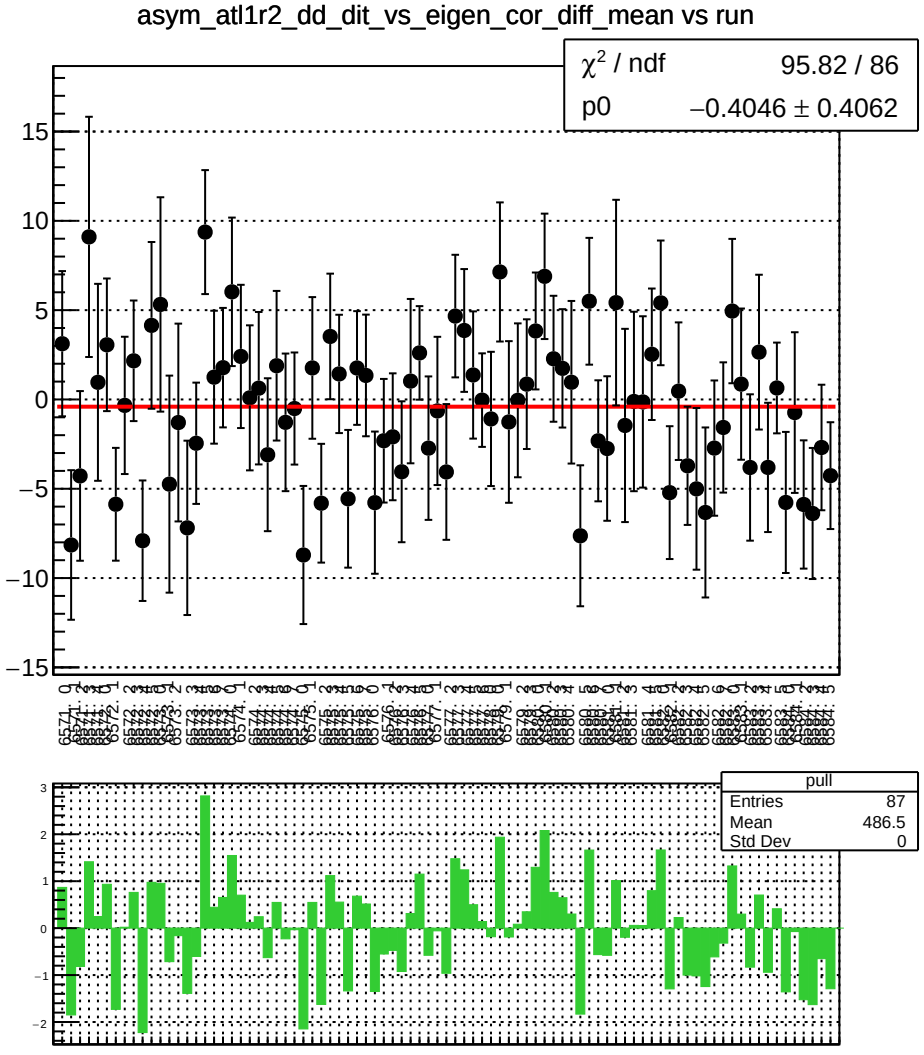

pull1D
Entries 87
Mean 0.08604
Std Dev 0.9655

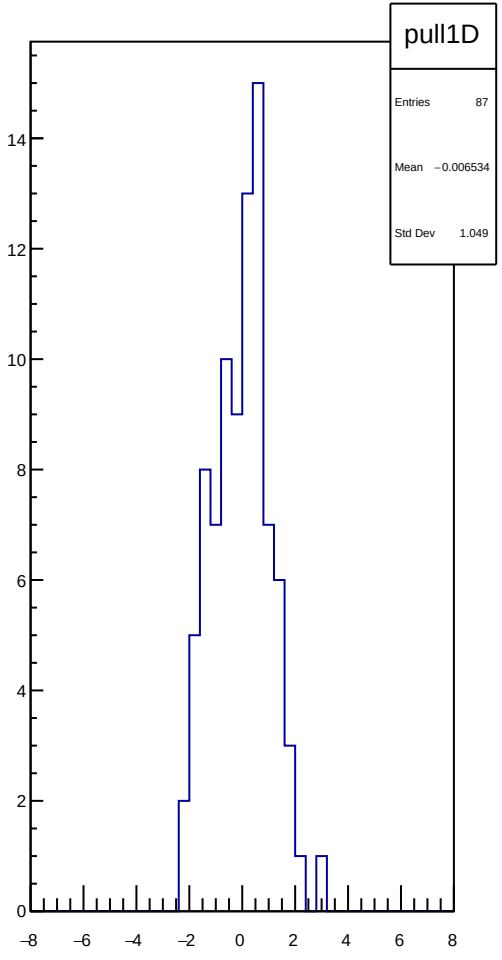

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.061e+06 / 86
p0 4.378e−11 ± 5.534e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

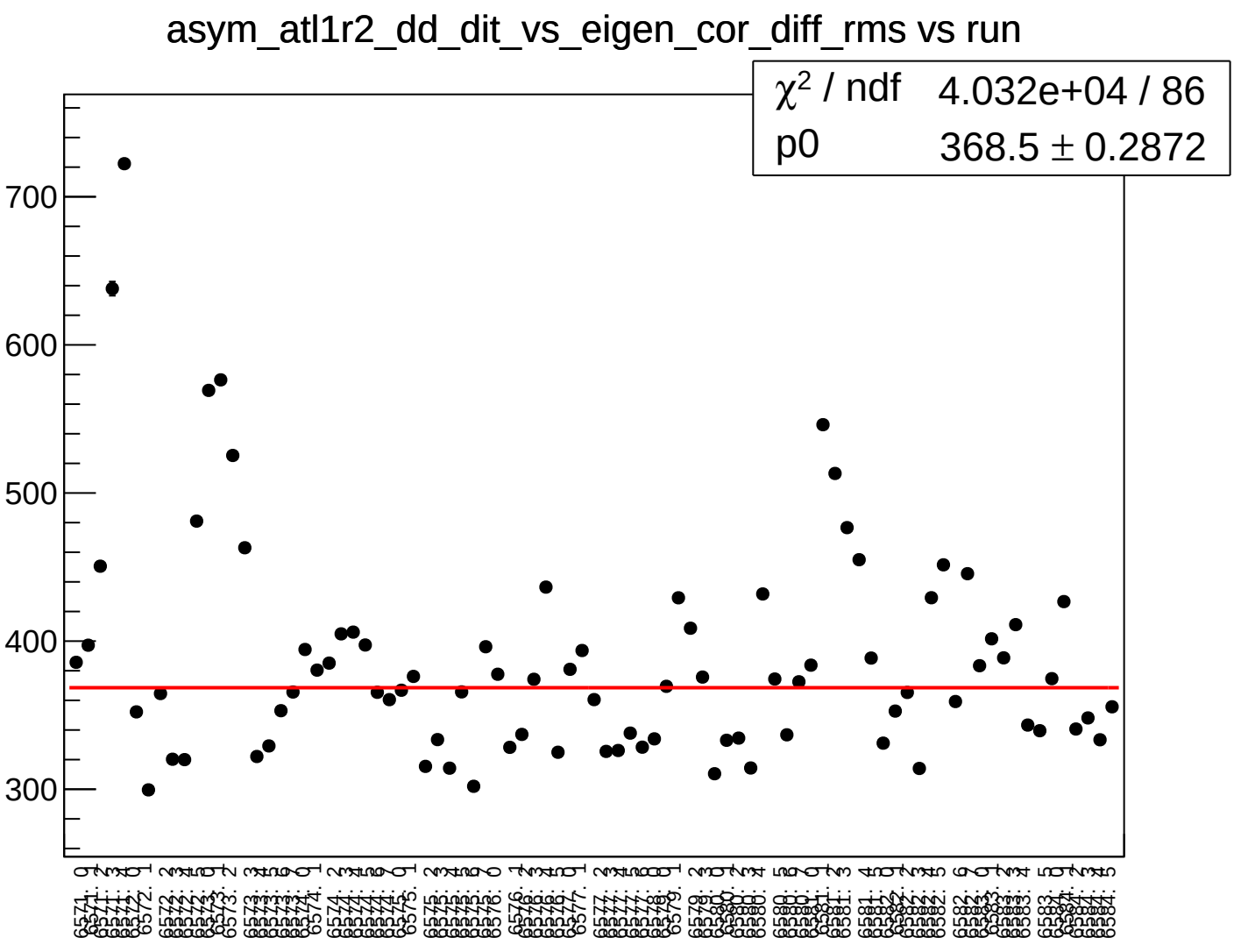

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.82 / 86
p0 −0.4046 ± 0.4062
pull
Entries 87
Mean 486.5
Std Dev 0

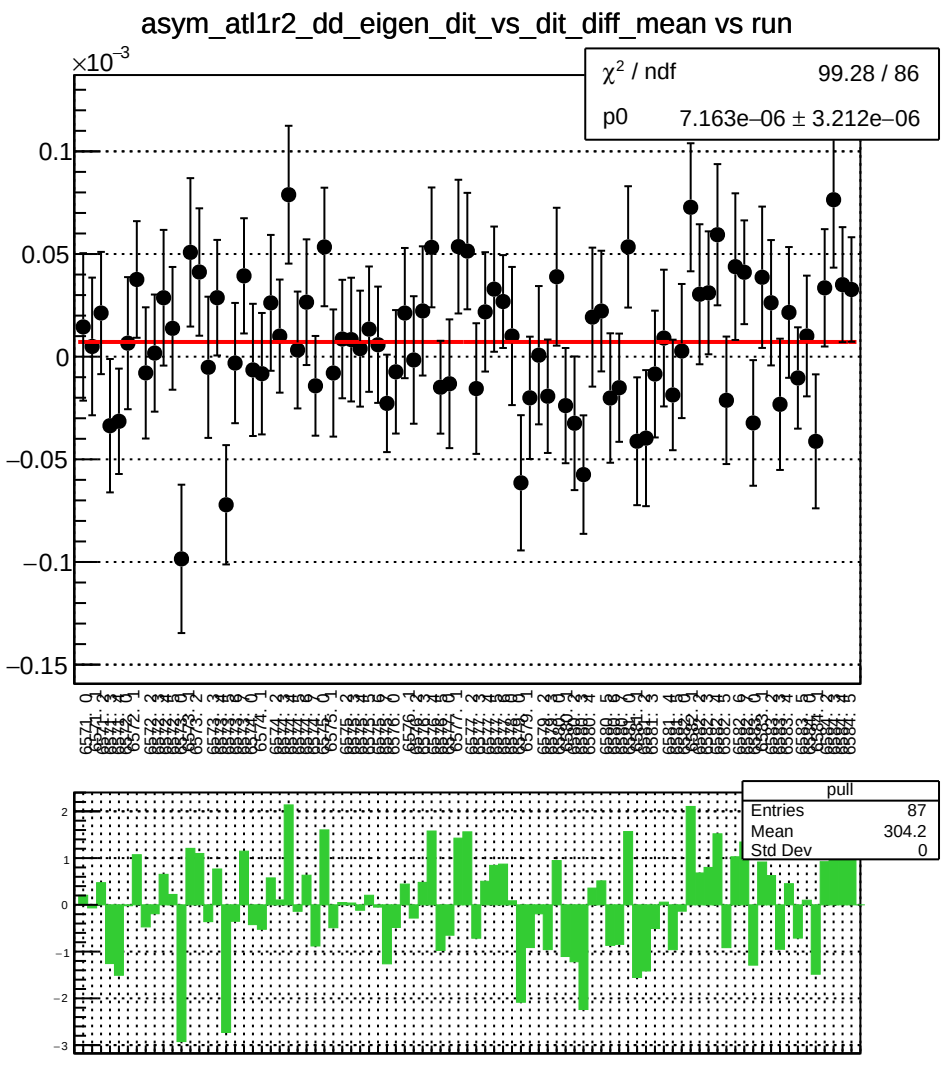

pull1D
Entries 87
Mean −0.006534
Std Dev 1.049

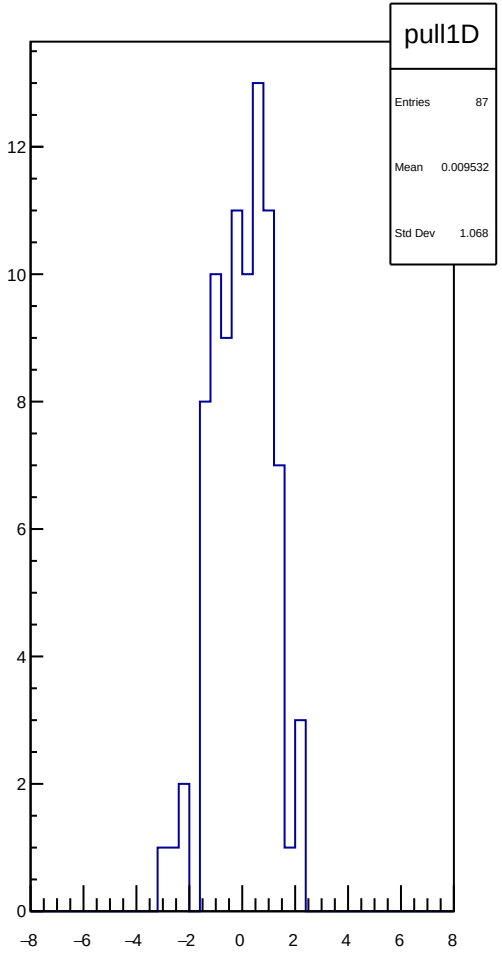

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.032e+04 / 86
p0 368.5 ± 0.2872
700
600
500
400
300

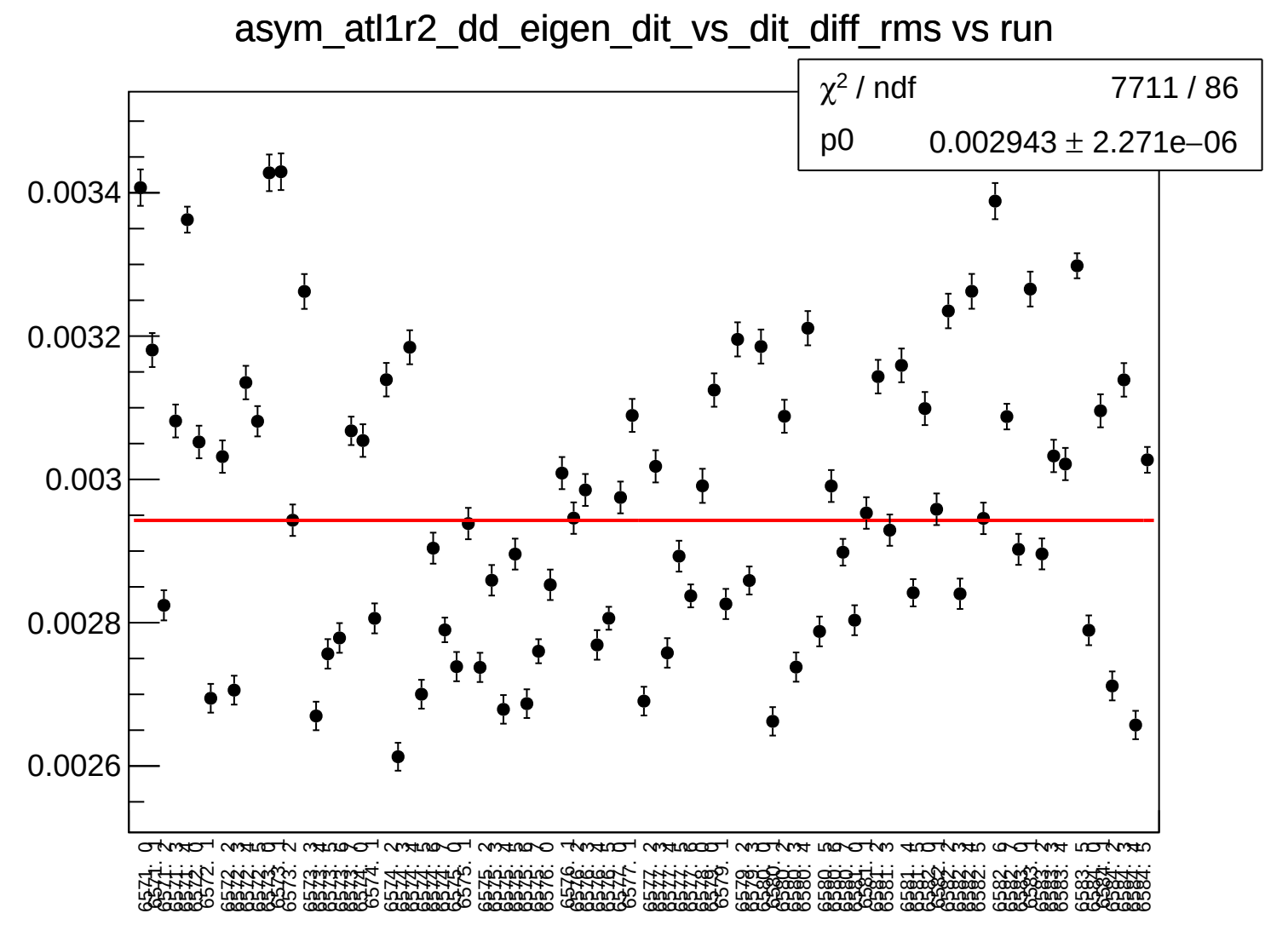

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.82 / 86
p0 −0.4046 ± 0.4062
pull
Entries 87
Mean 486.5
Std Dev 0

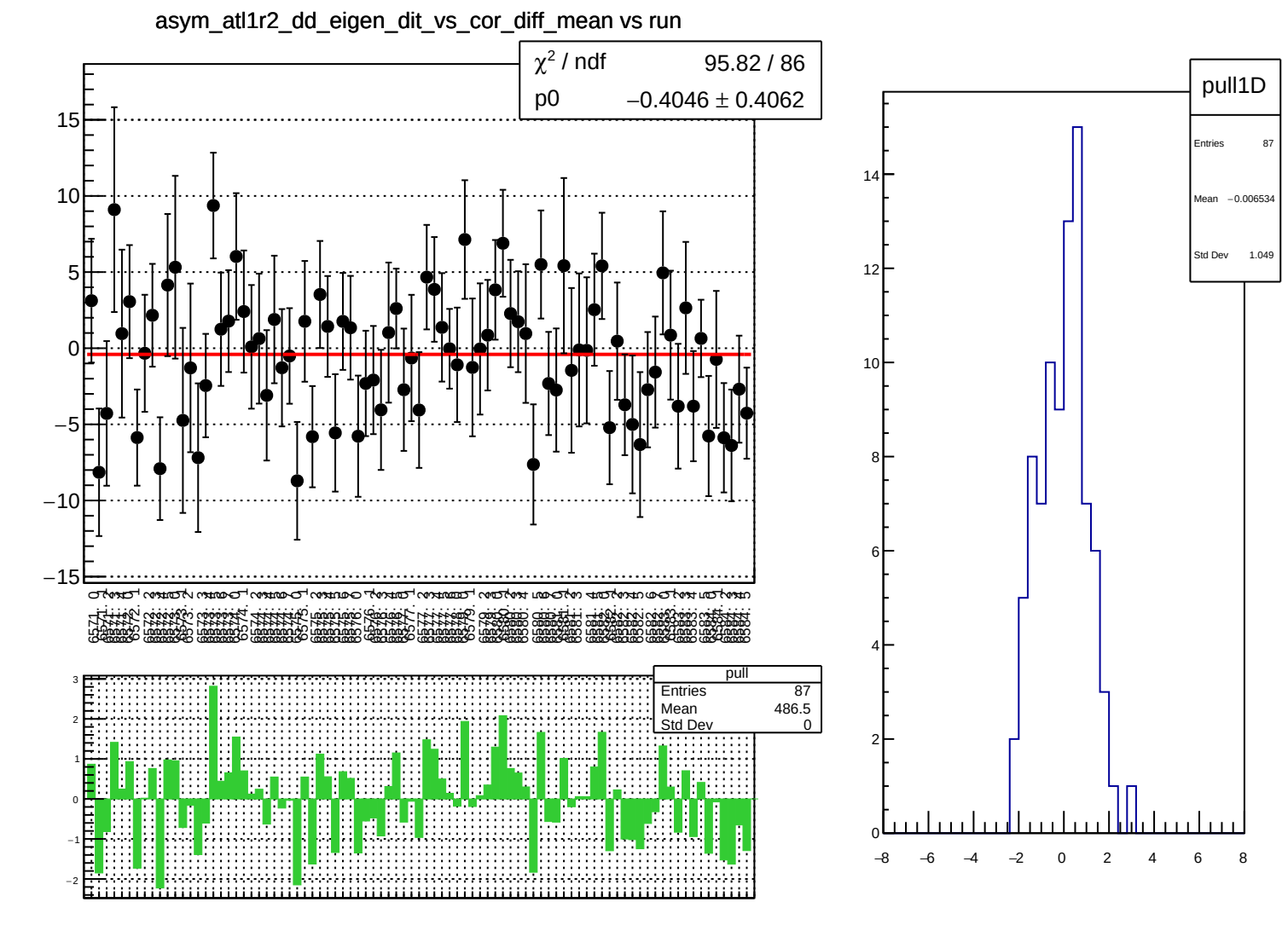

pull1D
Entries 87
Mean −0.006534
Std Dev 1.049

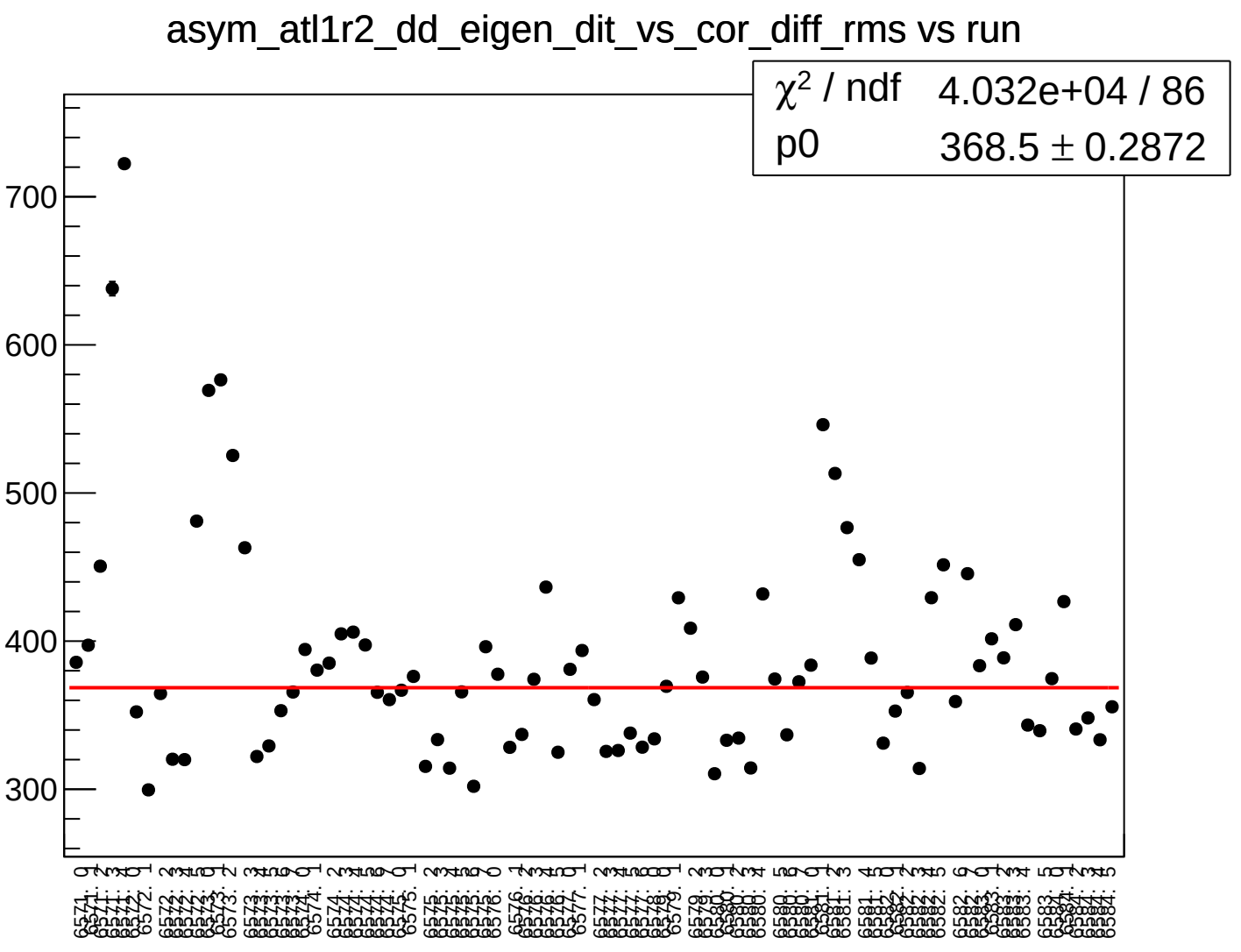

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.032e+04 / 86
p0 368.5 ± 0.2872
700
600
500
400
300

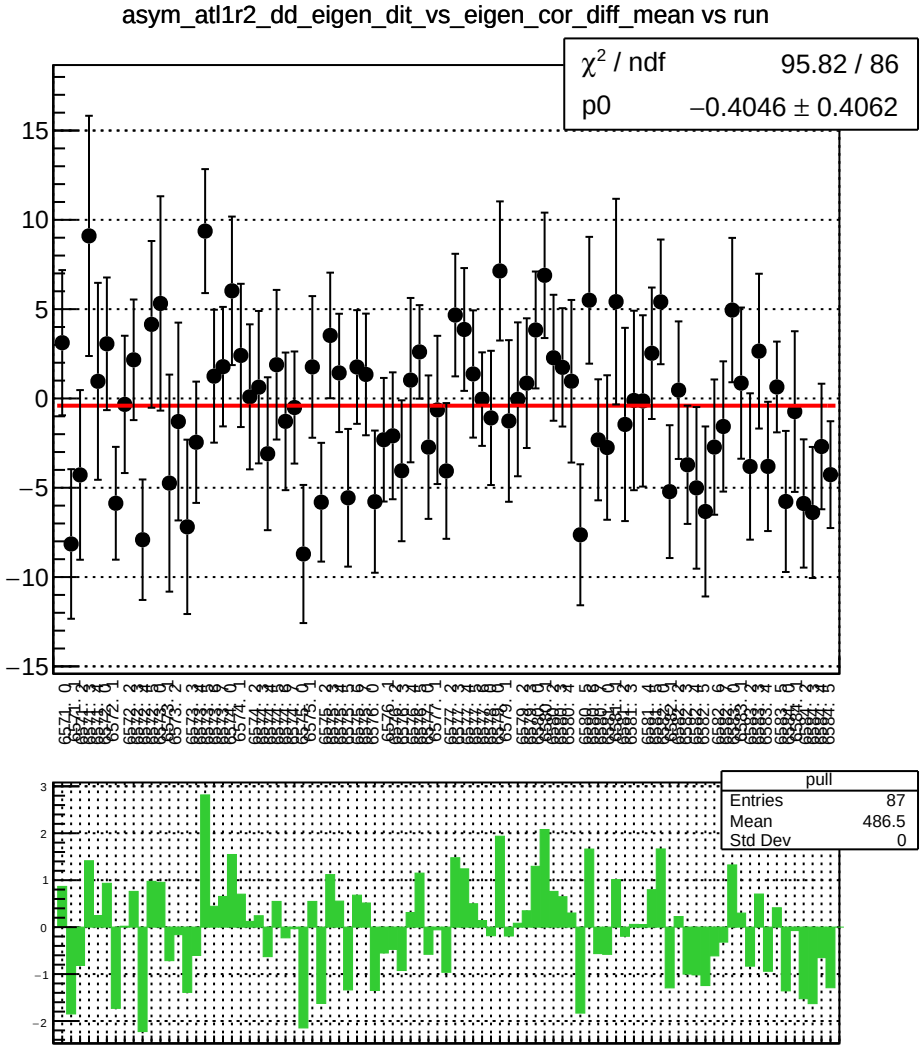

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.28 / 86
p0 7.163e−06 ± 3.212e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean 304.2
Std Dev 0
2
1
0
−1
−2
−3

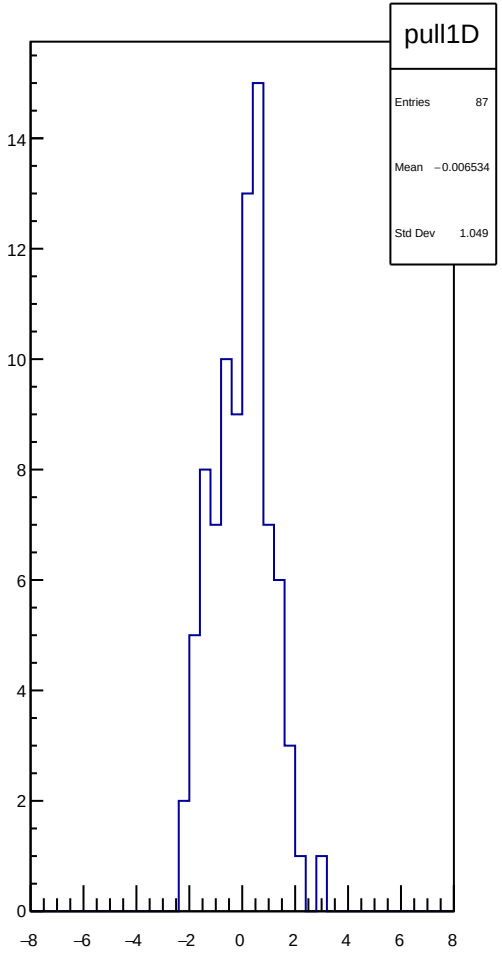

pull1D
Entries 87
Mean 0.009532
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

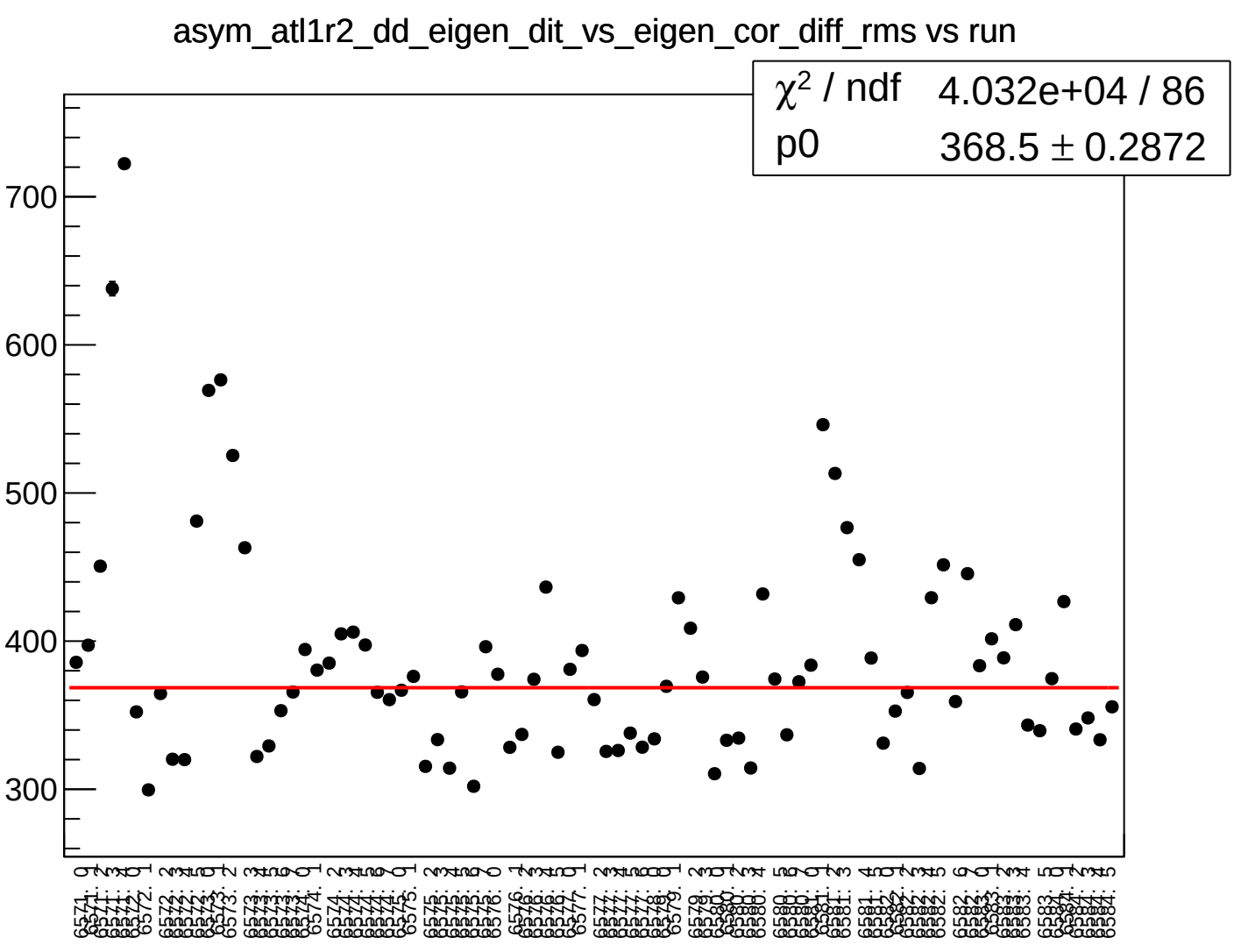

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7711 / 86
p0 0.002943 ± 2.271e−06
0.0034
0.0032
0.003
0.0028
0.0026

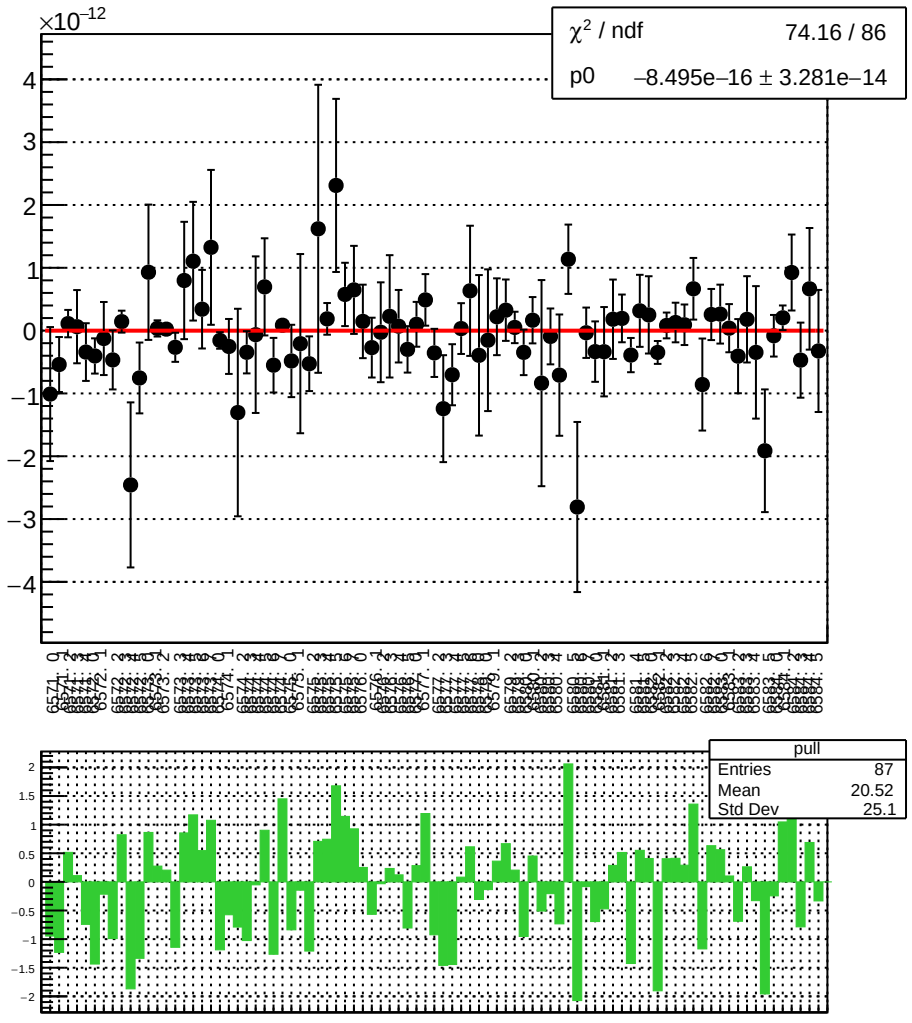

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.82 / 86
p0 −0.4046 ± 0.4062
pull
Entries 87
Mean 486.5
Std Dev 0
pull1D
Entries 87
Mean −0.006534
Std Dev 1.049

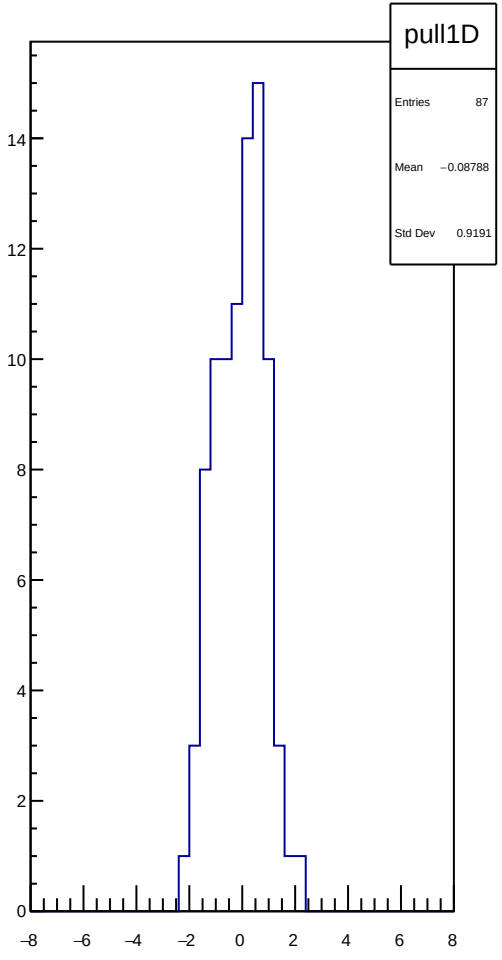

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.032e+04 / 86
p0 368.5 ± 0.2872
700
600
500
400
300

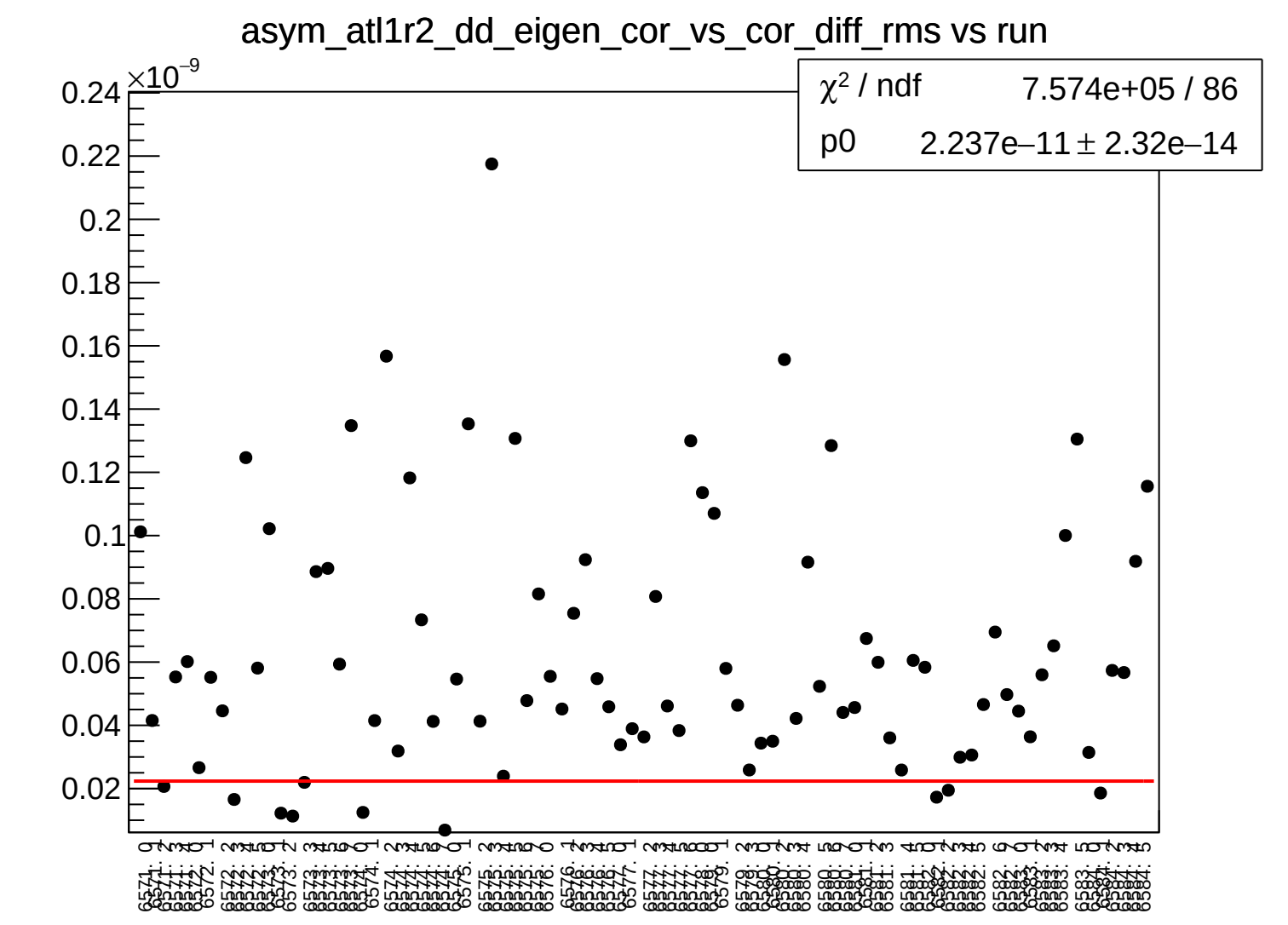

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.82 / 86
p0 −0.4046 ± 0.4062
pull
Entries 87
Mean 486.5
Std Dev 0

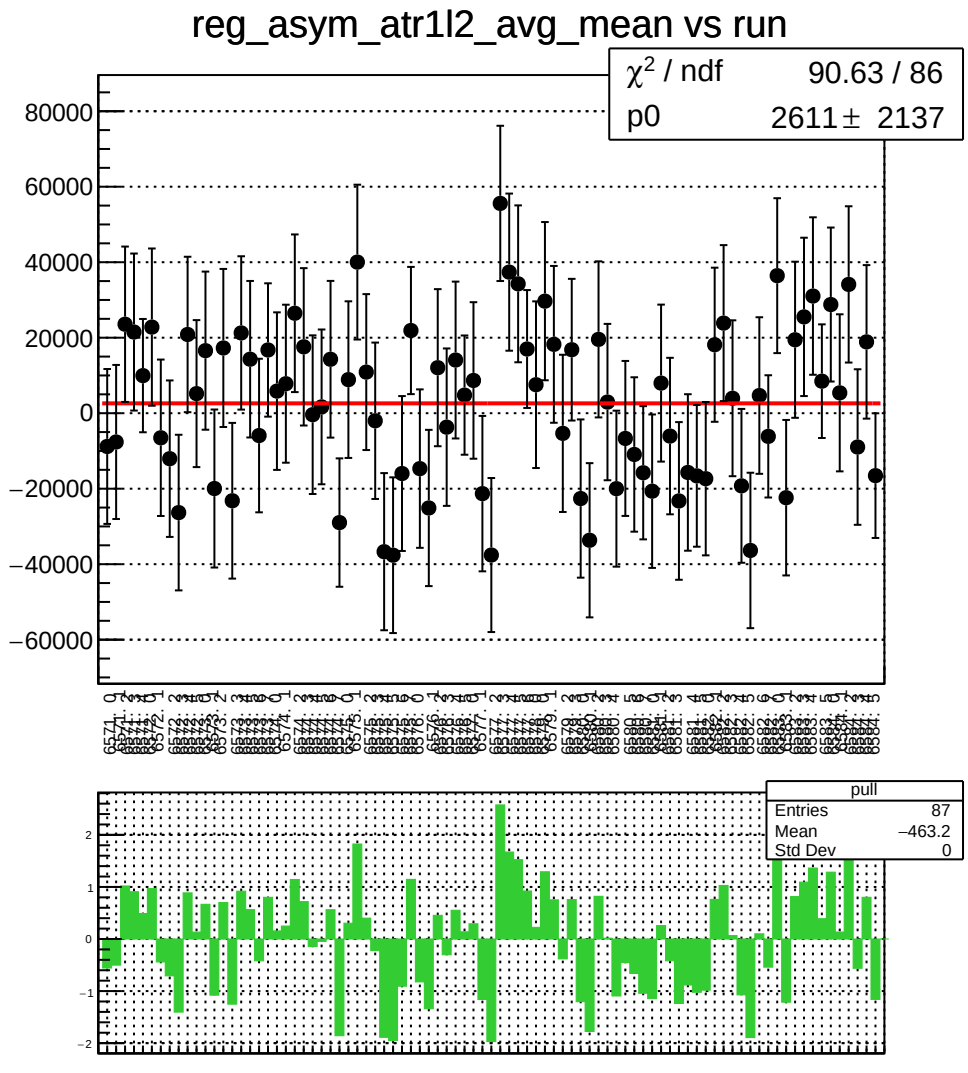

pull1D
Entries 87
Mean −0.006534
Std Dev 1.049

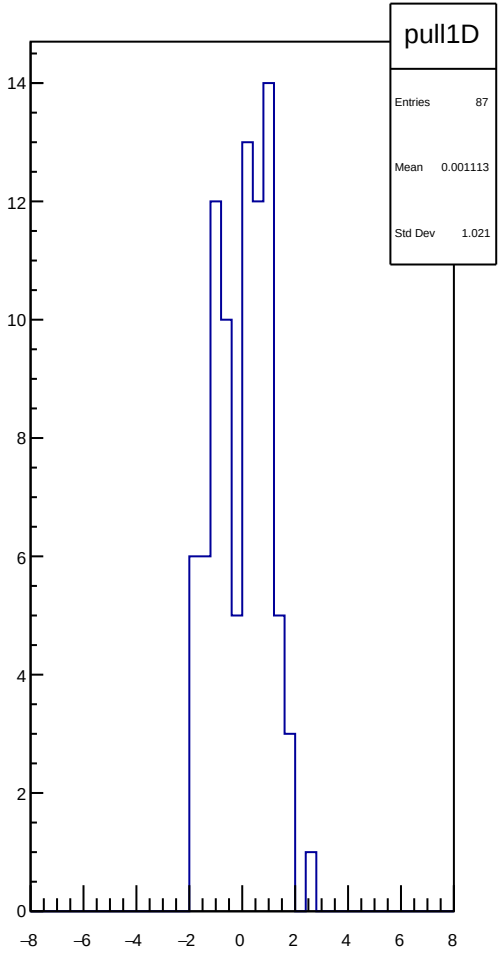

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.032e+04 / 86
p0 368.5 ± 0.2872
700
600
500
400
300

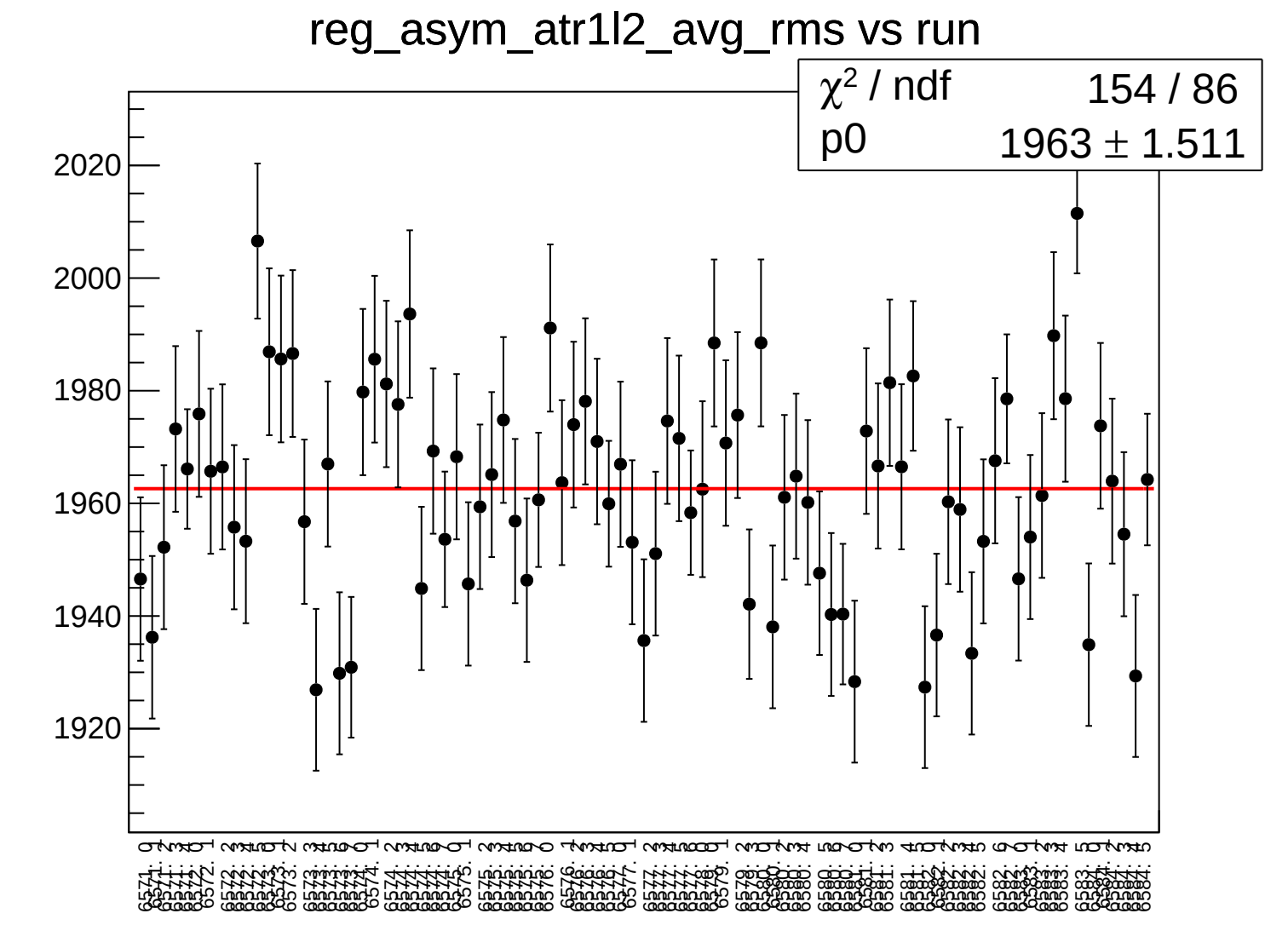

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.16 / 86
p0 −8.495e−16 ± 3.281e−14
pull
Entries 87
Mean 20.52
Std Dev 25.1

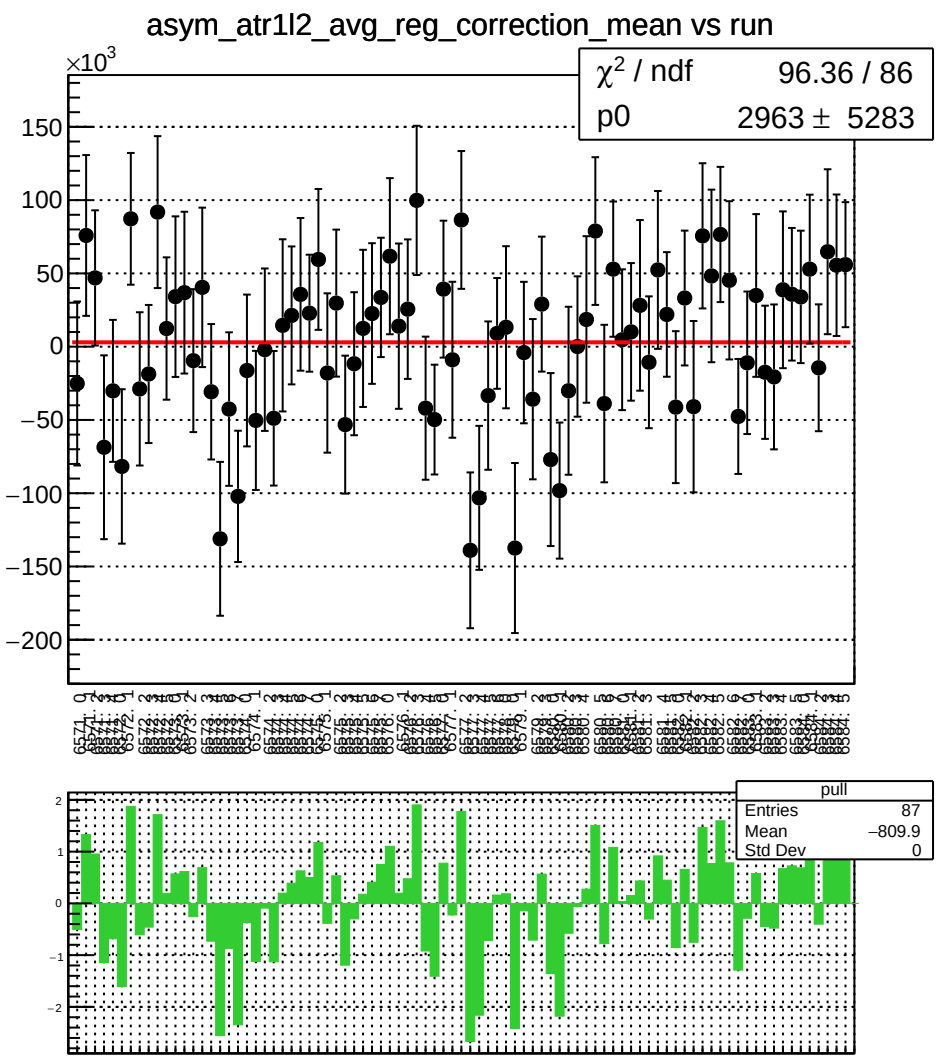

pull1D
Entries 87
Mean −0.08788
Std Dev 0.9191

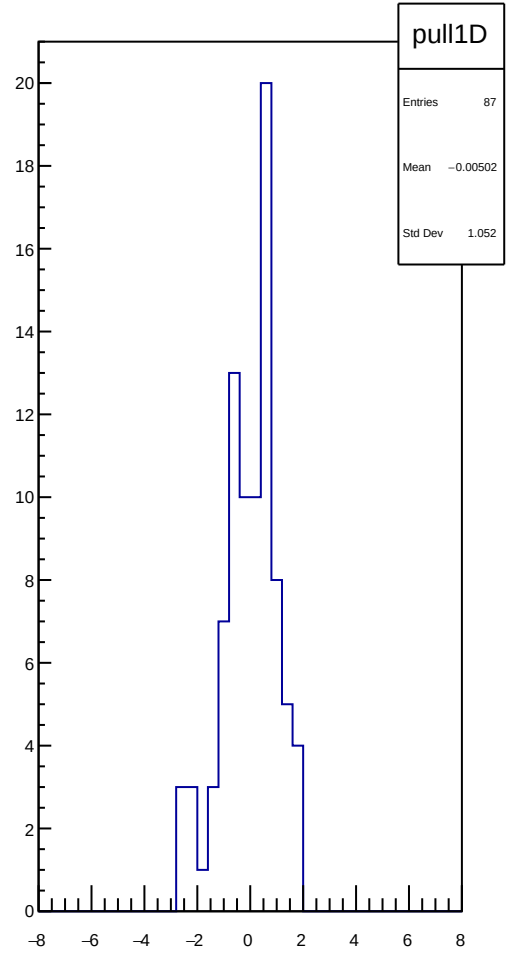

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.574e+05 / 86
p0 2.237e−11 ± 2.32e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

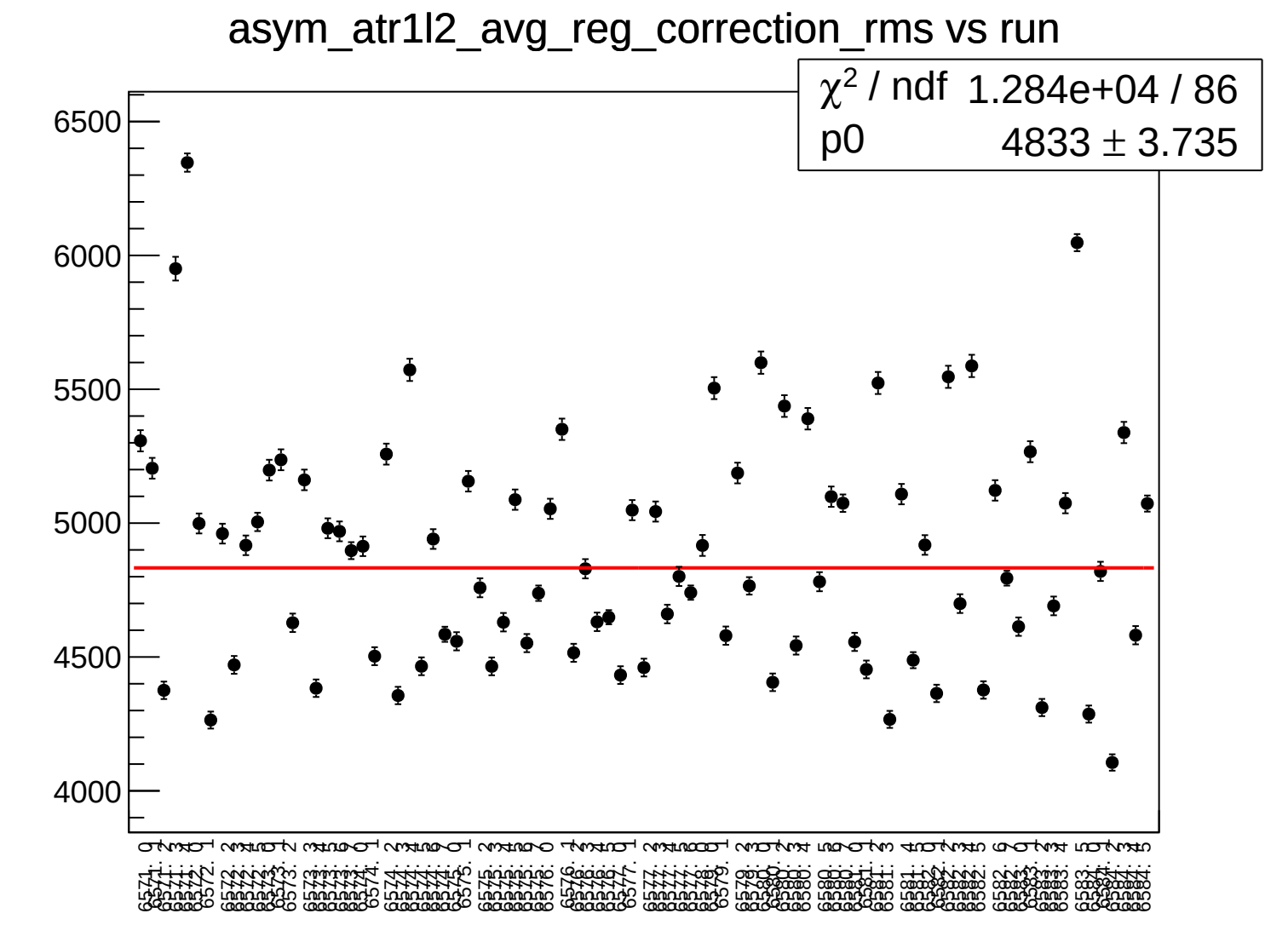

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 90.63 / 86
p0 2611 ± 2137
pull
Entries 87
Mean −463.2
Std Dev 0

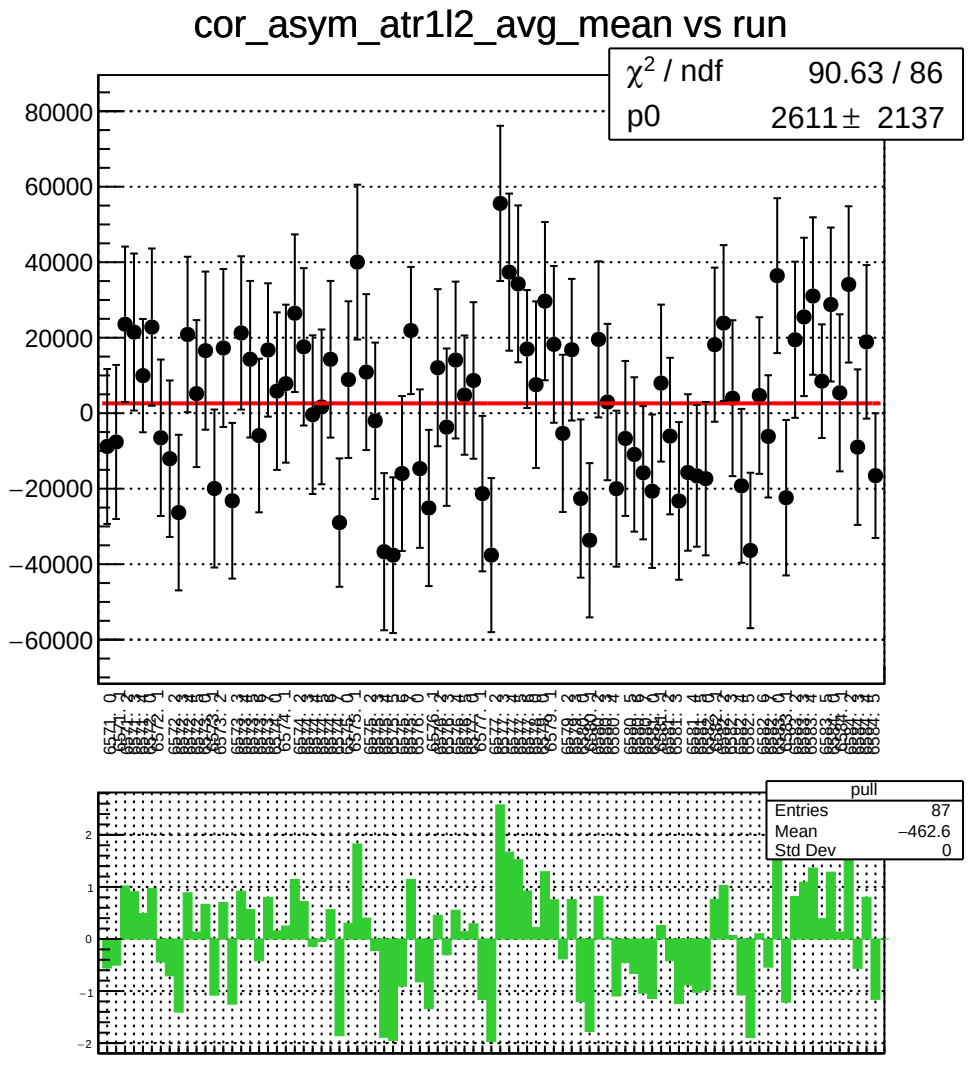

pull1D
Entries 87
Mean 0.001113
Std Dev 1.021

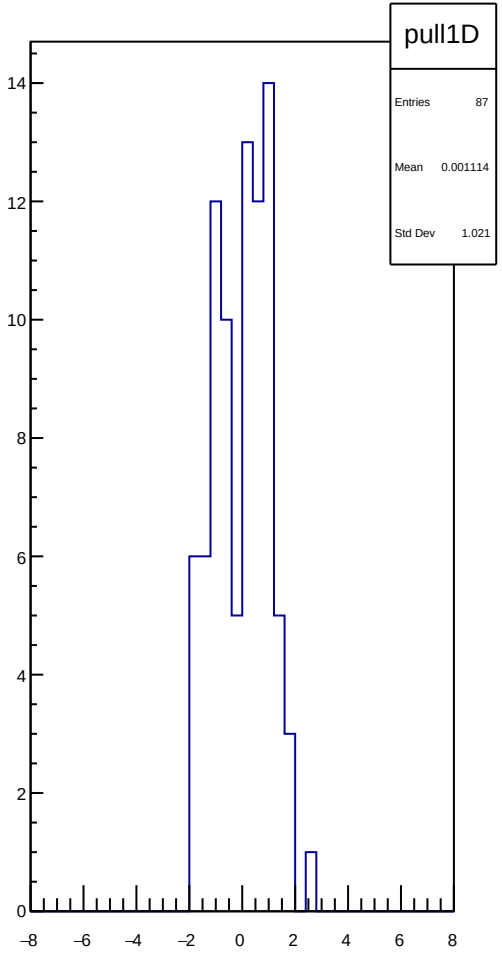

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 154 / 86
p0 1963 ± 1.511
2020
2000
1980
1960
1940
1920

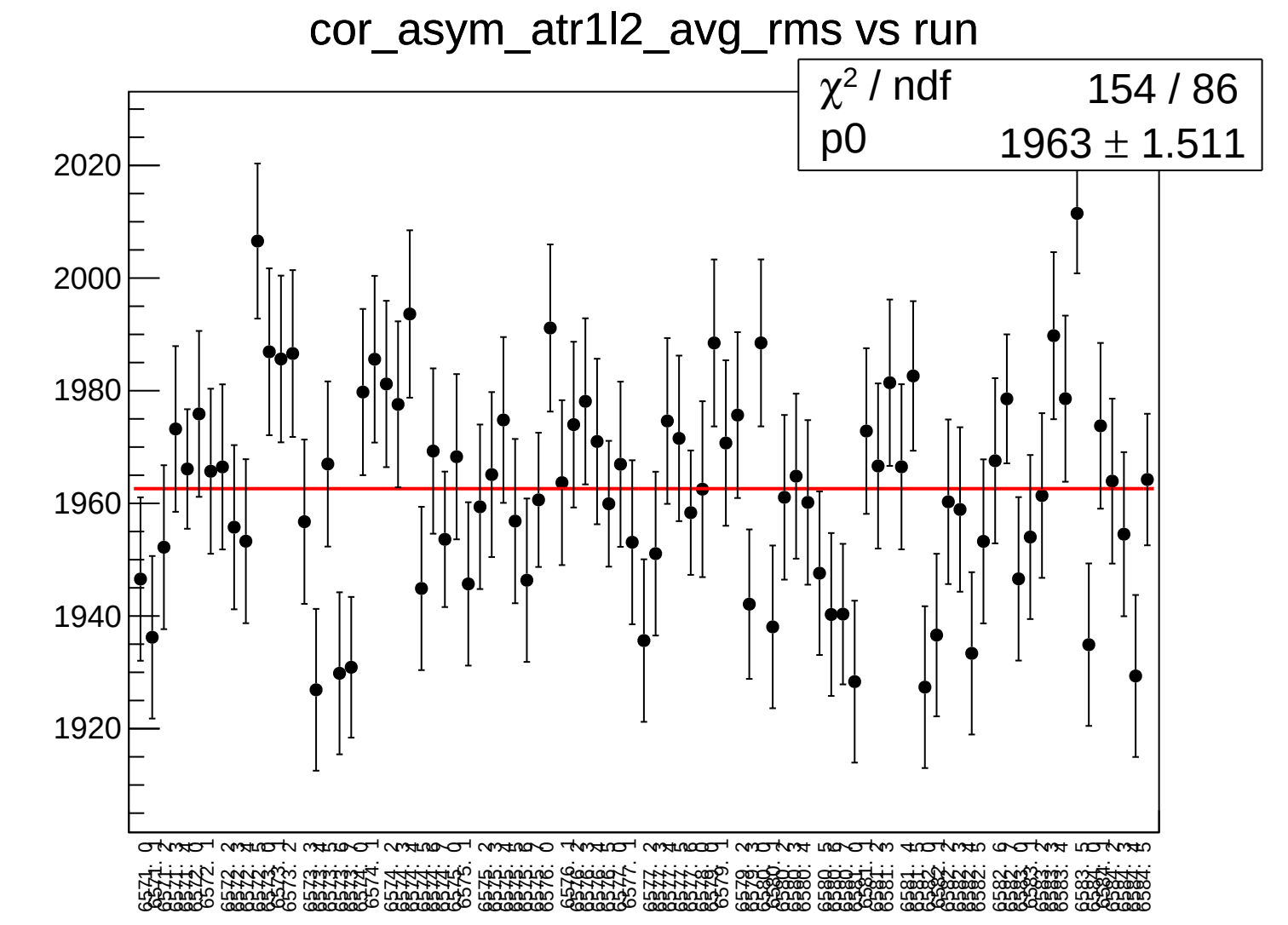

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.36 / 86
p0 2963 ± 5283
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −809.9
Std Dev 0
2
1
0
−1
−2

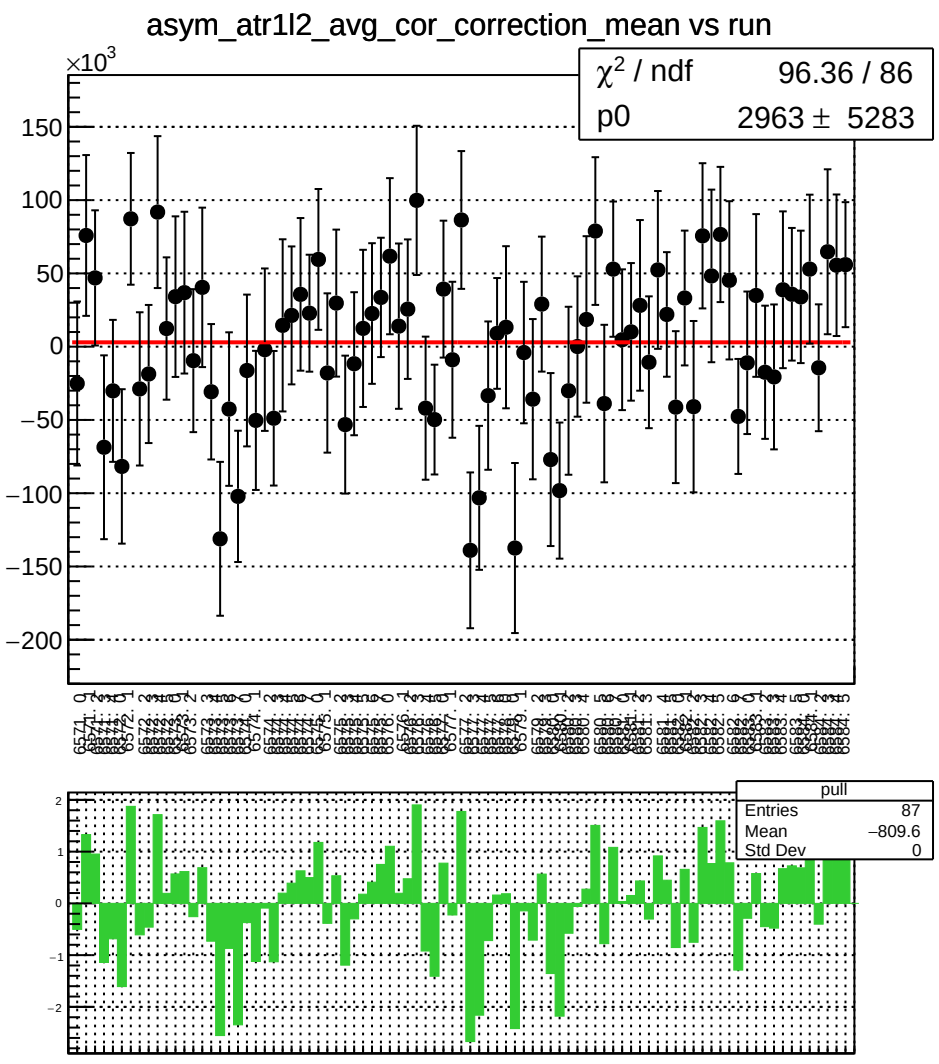

pull1D
Entries 87
Mean −0.00502
Std Dev 1.052
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

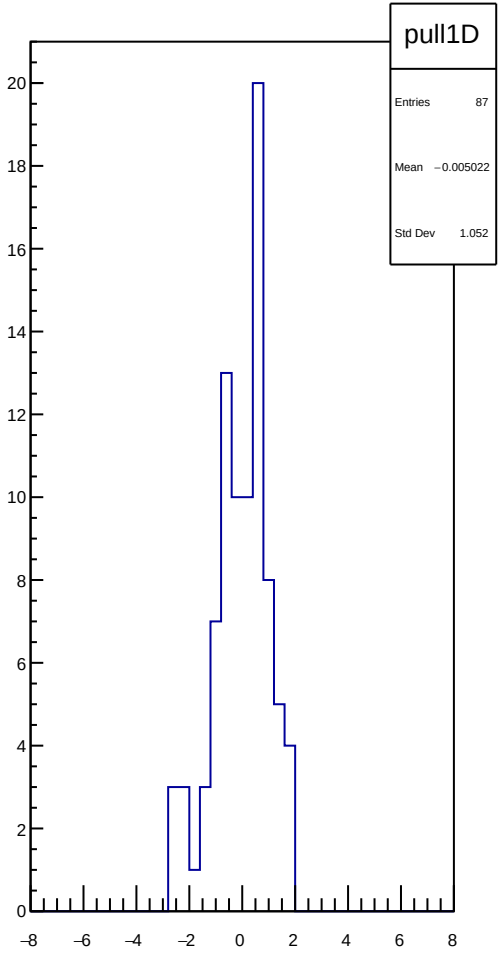

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.284e+04 / 86
p0 4833 ± 3.735
6500
6000
5500
5000
4500
4000

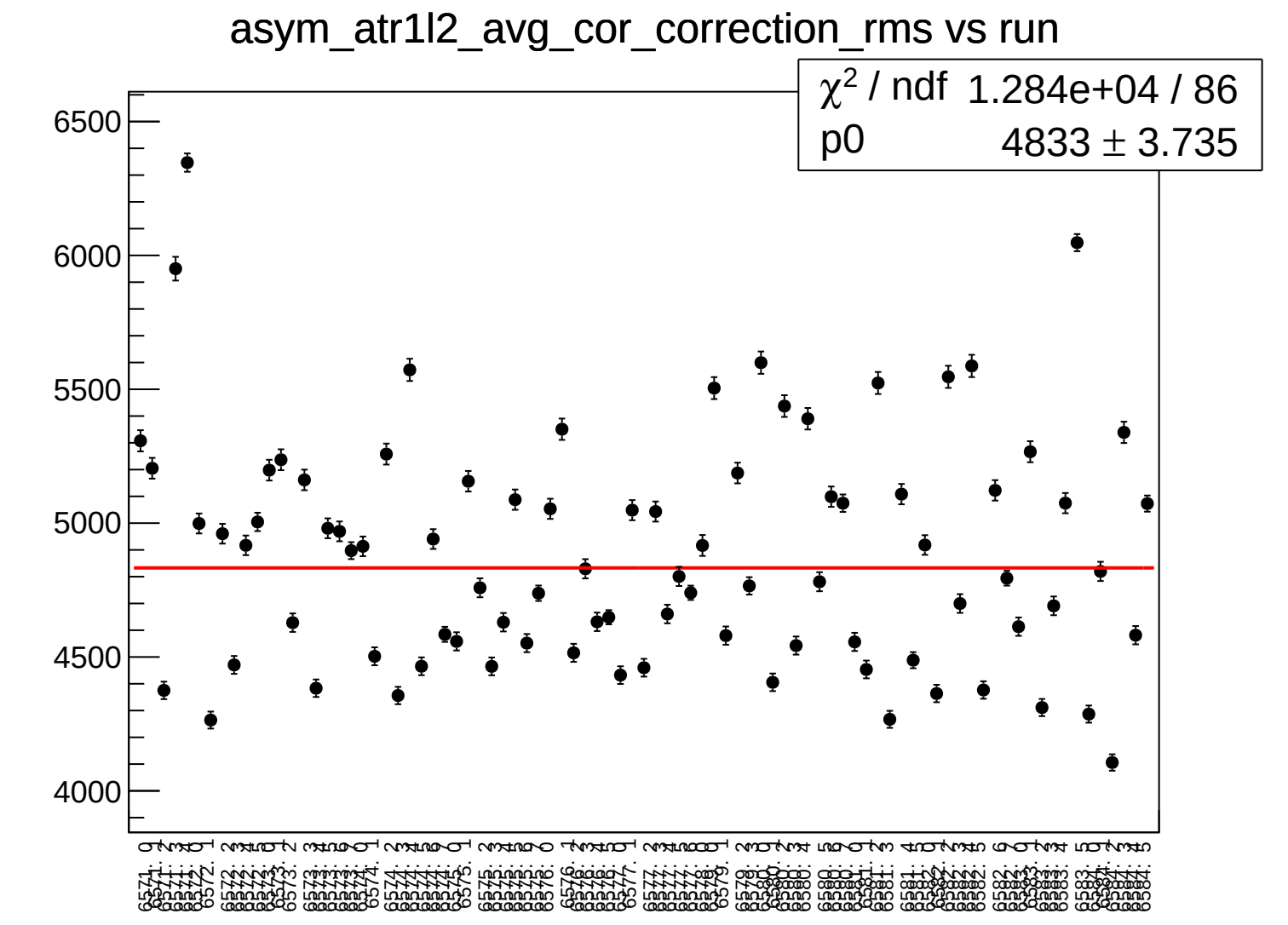

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 90.63 / 86
p0 2611 ± 2137
pull
Entries 87
Mean −462.6
Std Dev 0

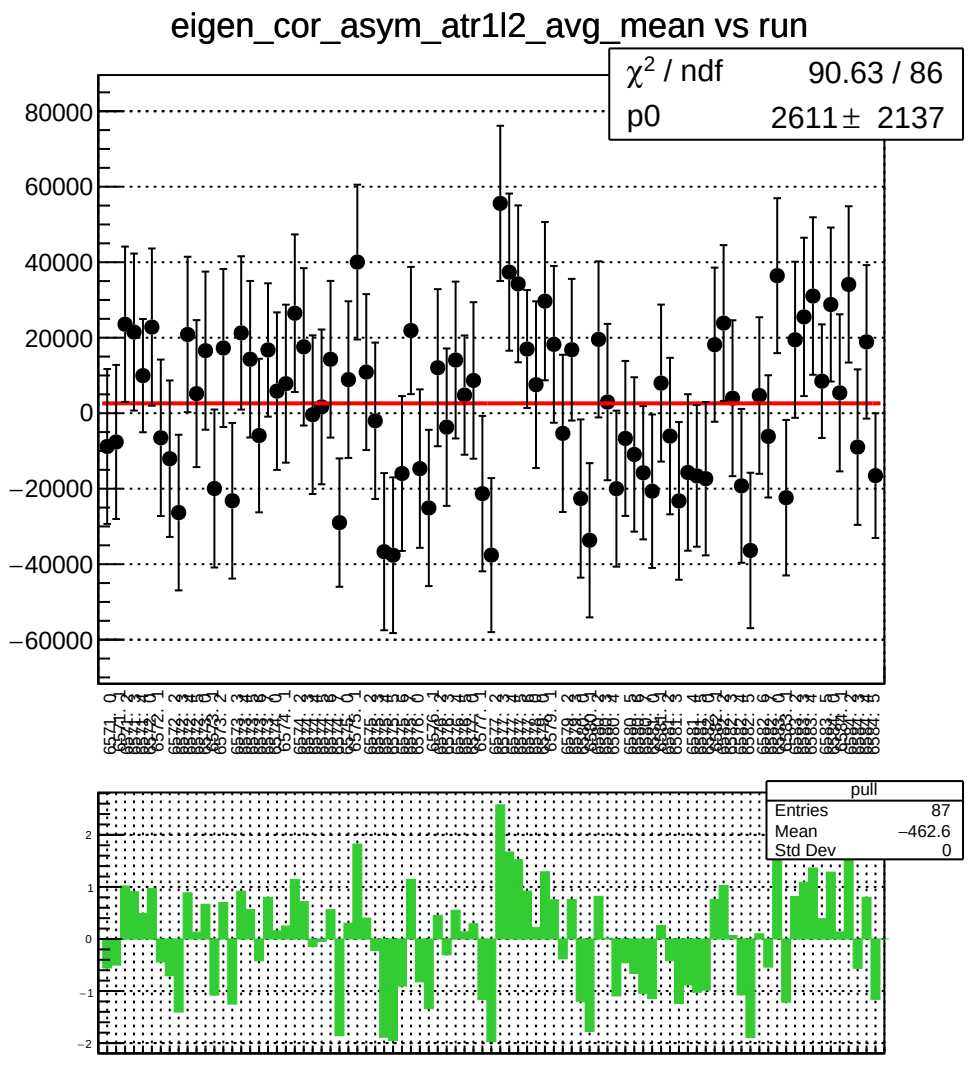

pull1D
Entries 87
Mean 0.001114
Std Dev 1.021

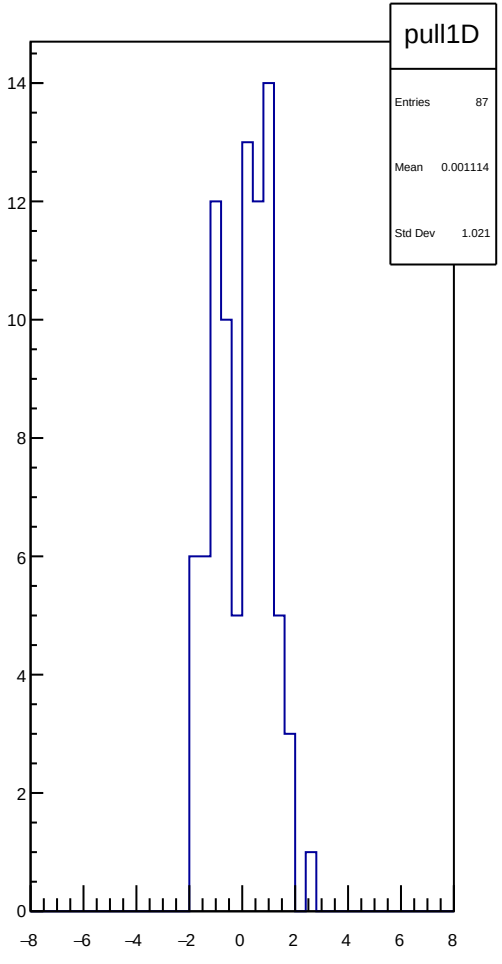

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 154 / 86
p0 1963 ± 1.511
2020
2000
1980
1960
1940
1920

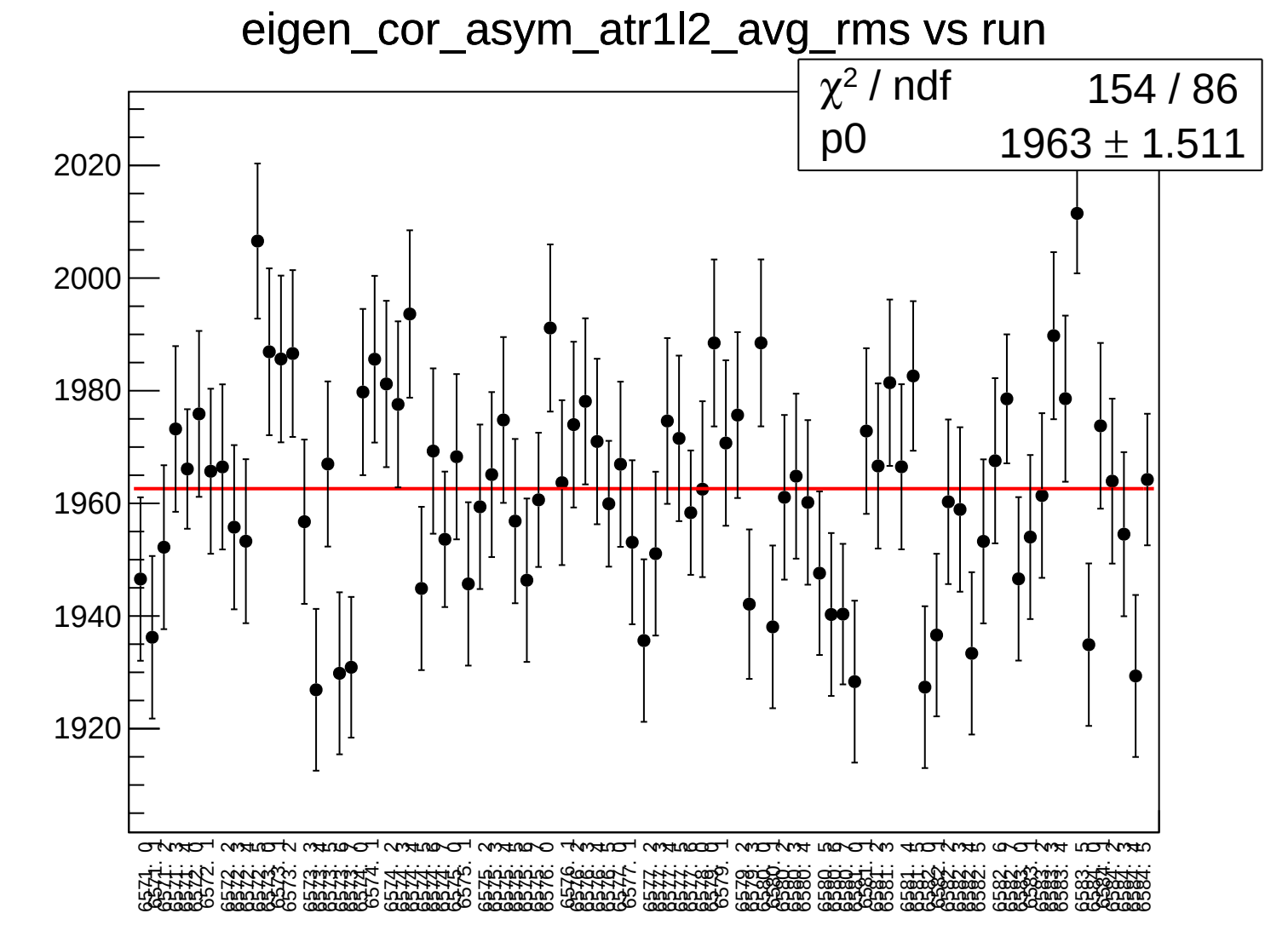

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.36 / 86
p0 2963 ± 5283
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −809.6
Std Dev 0
2
1
0
−1
−2

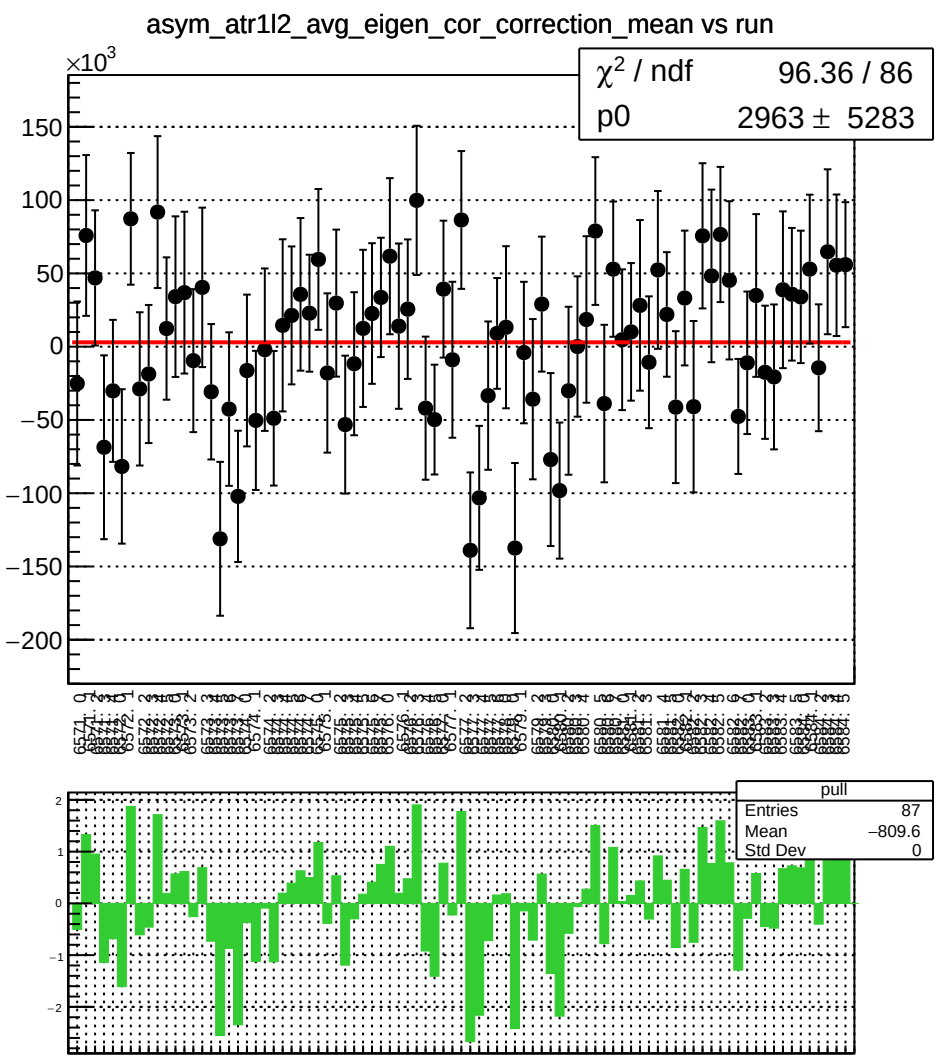

pull1D
Entries 87
Mean −0.005022
Std Dev 1.052
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

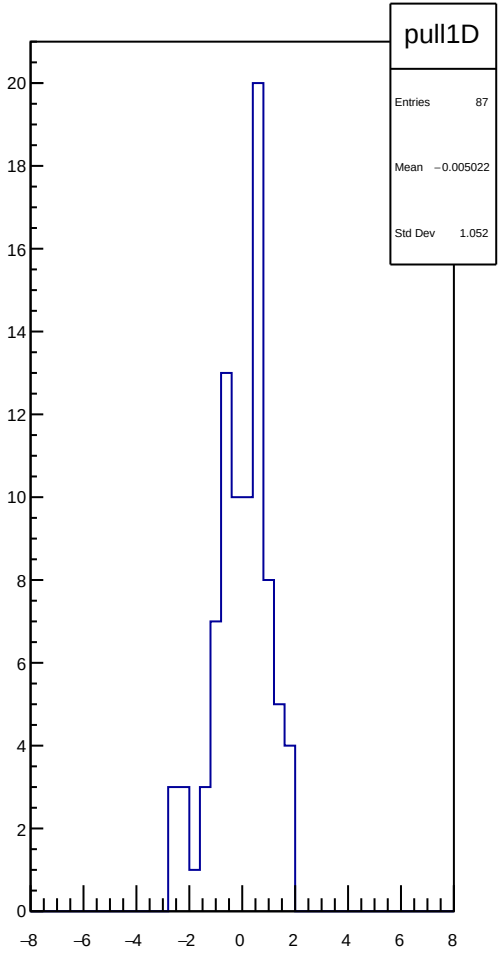

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.284e+04 / 86
p0 4833 ± 3.735
6500
6000
5500
5000
4500
4000

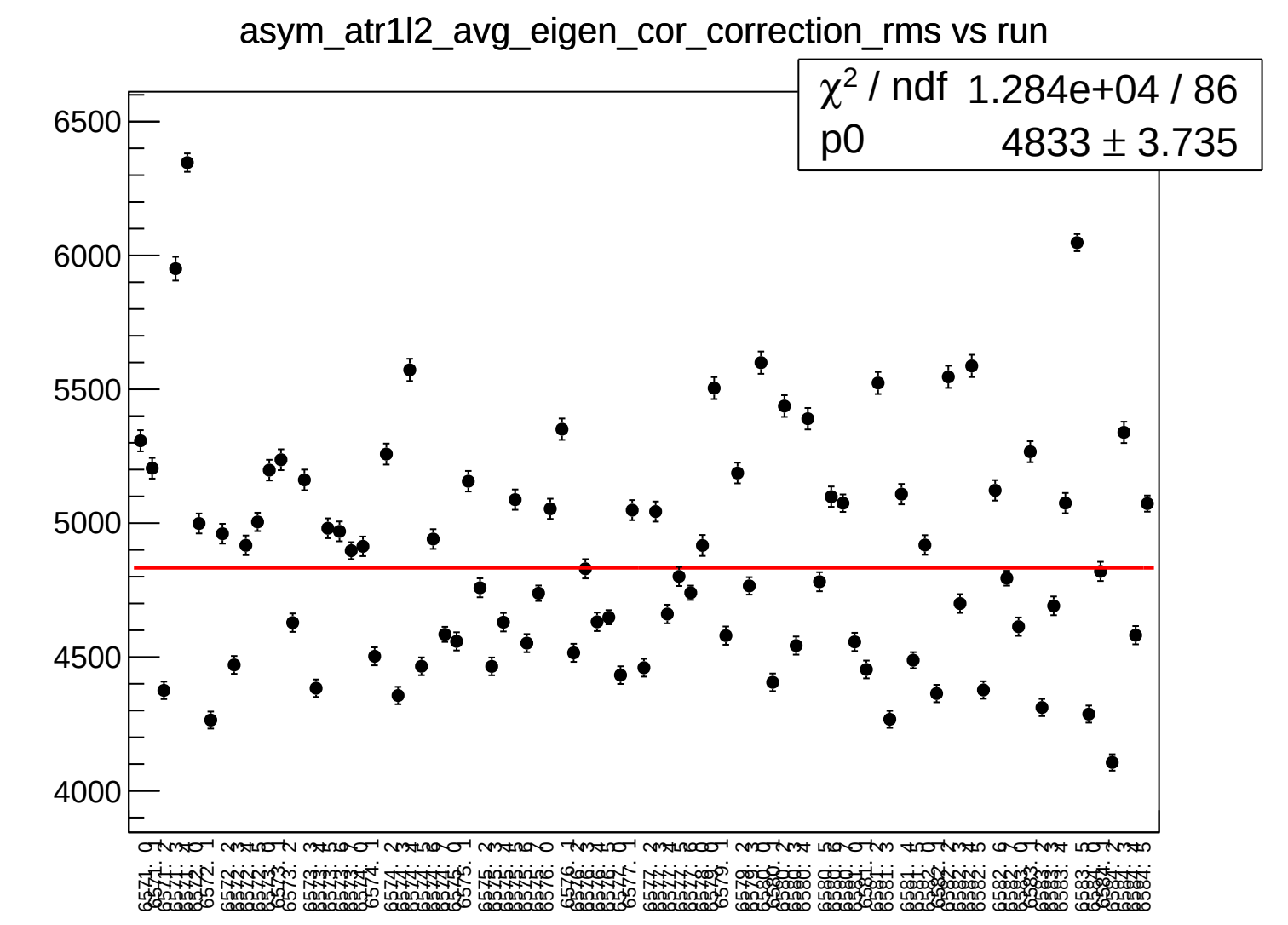

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 90.63 / 86
p0 2611 ± 2137
pull
Entries 87
Mean −462.6
Std Dev 0

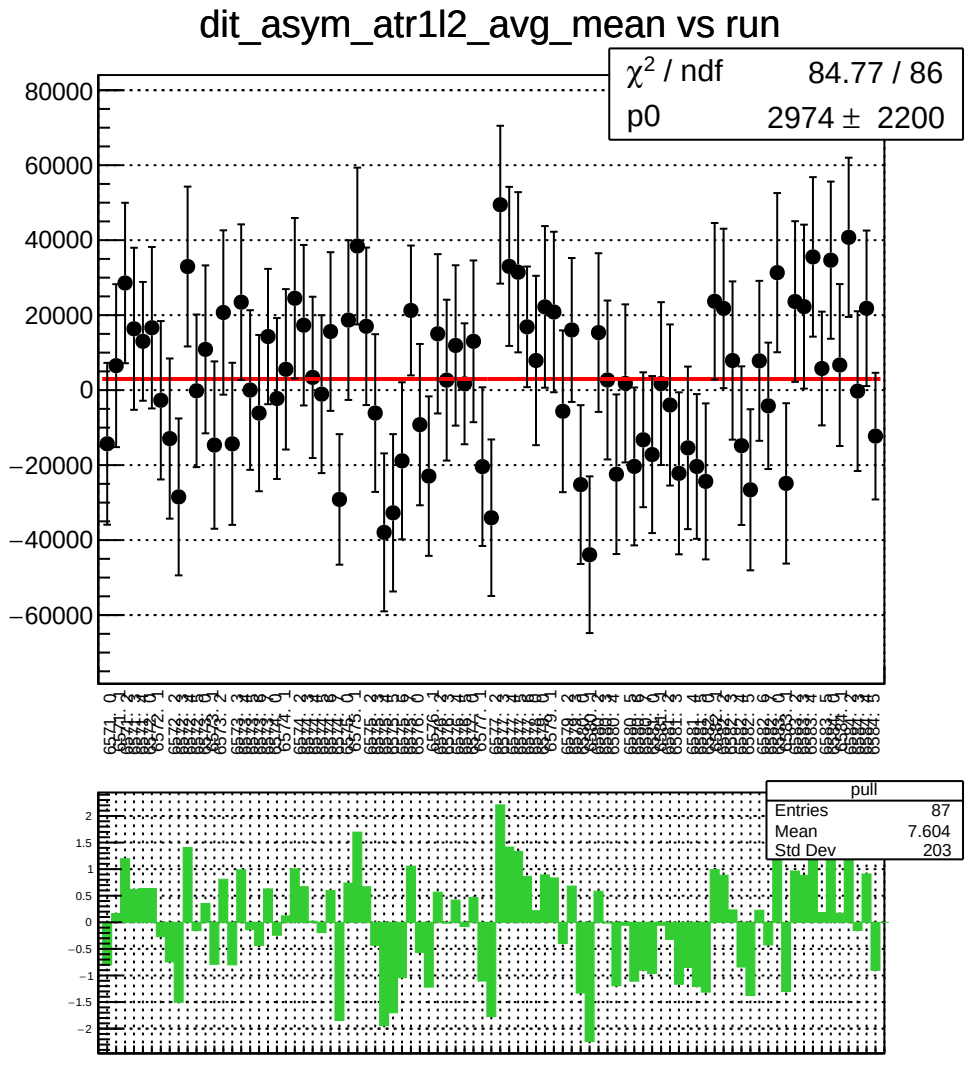

pull1D
Entries 87
Mean 0.001114
Std Dev 1.021

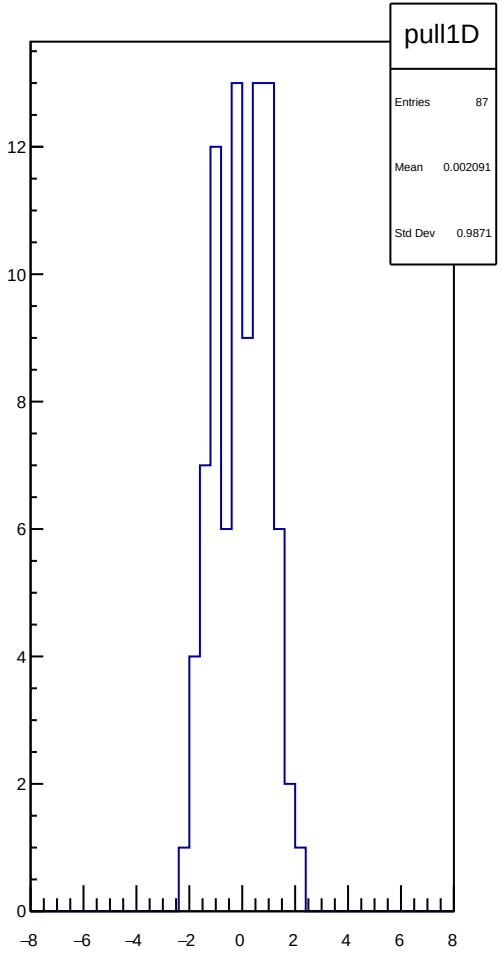

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 154 / 86
p0 1963 ± 1.511
2020
2000
1980
1960
1940
1920

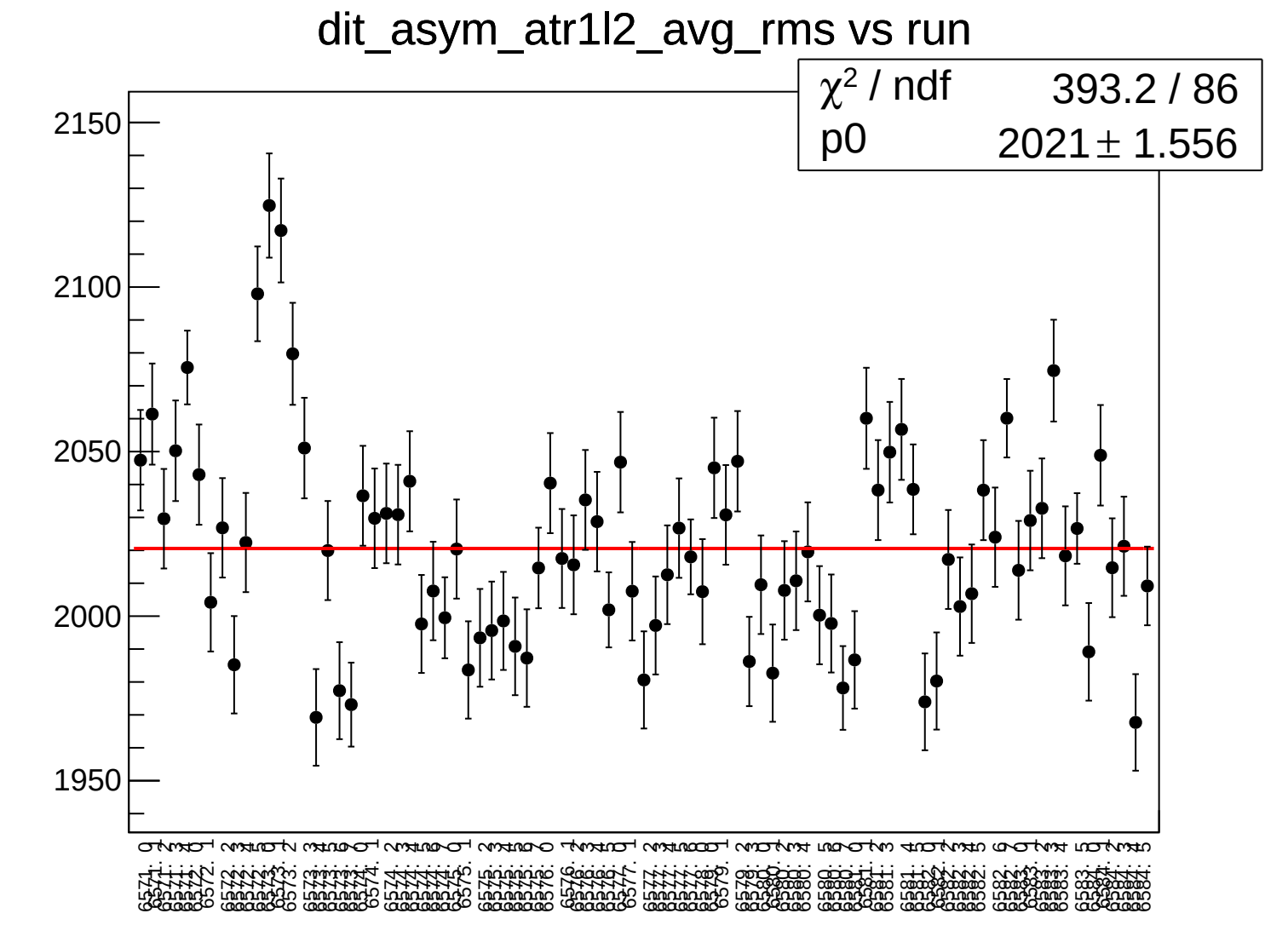

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.36 / 86
p0 2963 ± 5283
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −809.6
Std Dev 0
2
1
0
−1
−2

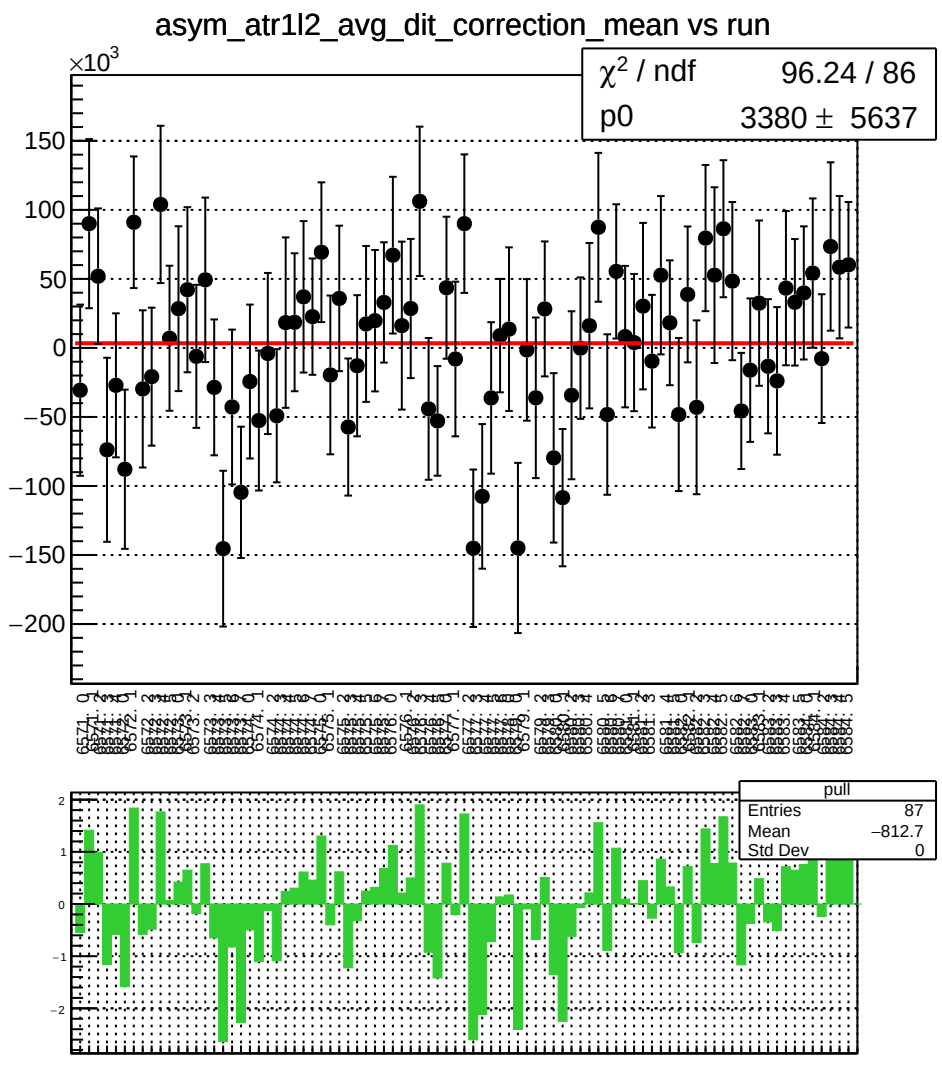

pull1D
Entries 87
Mean −0.005022
Std Dev 1.052
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

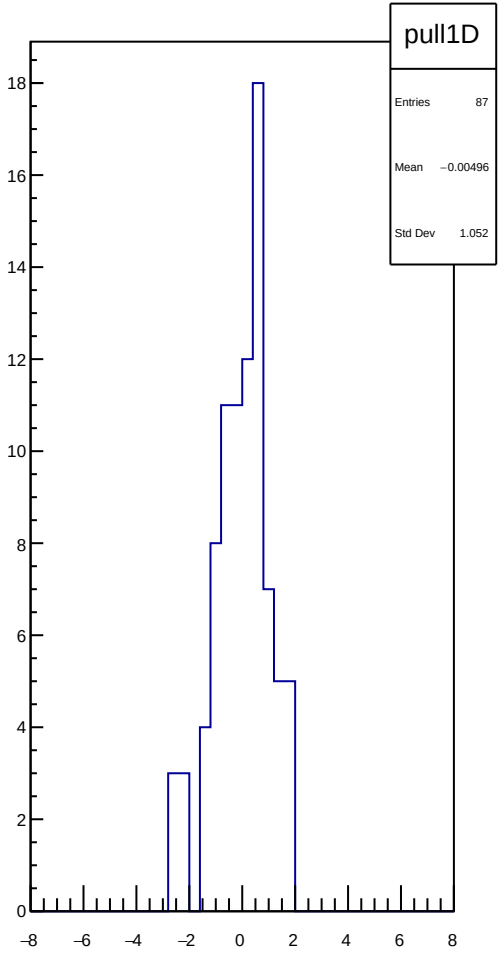

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.284e+04 / 86
p0 4833 ± 3.735
6500
6000
5500
5000
4500
4000

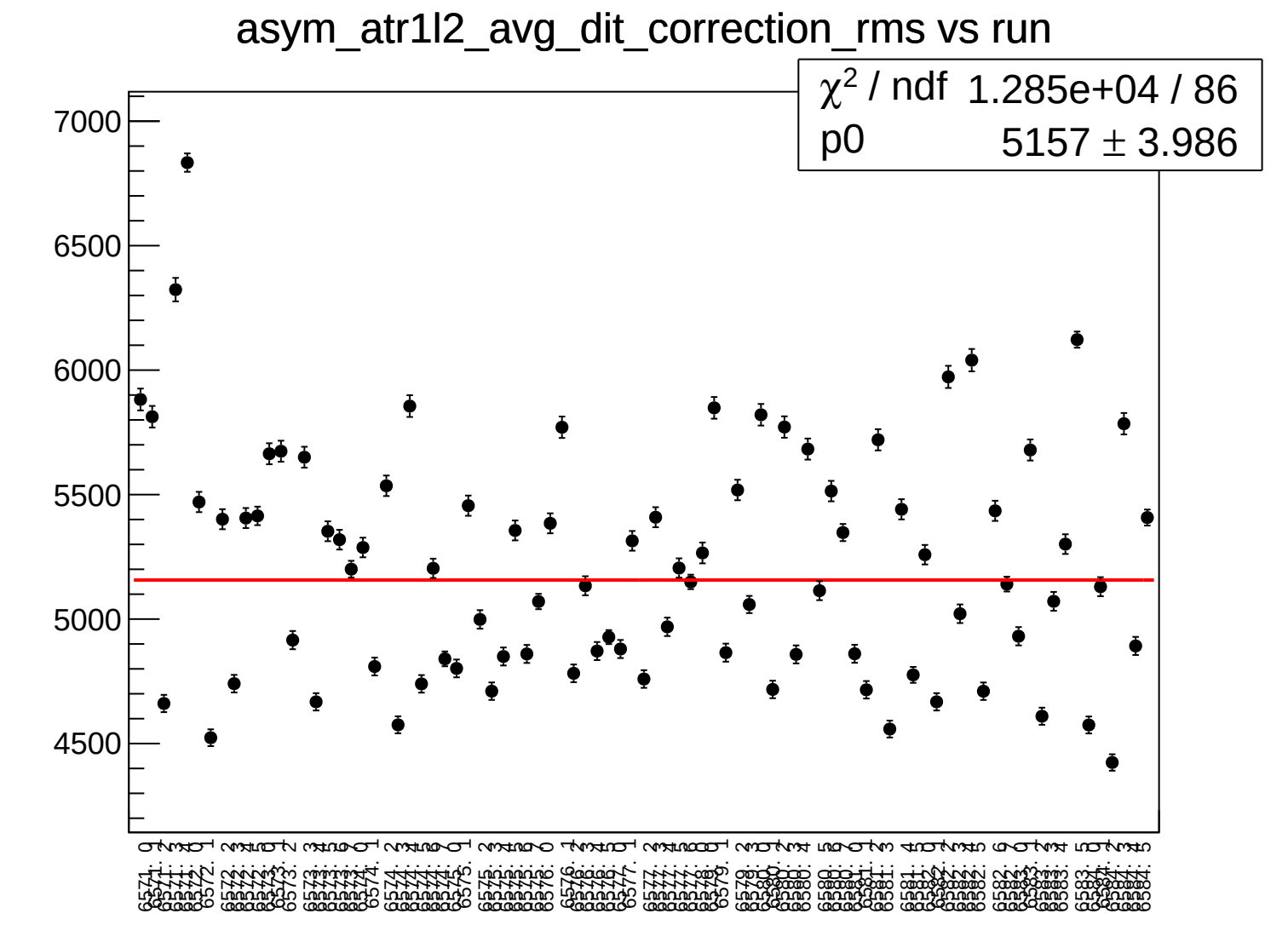

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 84.77 / 86
p0 2974 ± 2200
pull
Entries 87
Mean 7.604
Std Dev 203

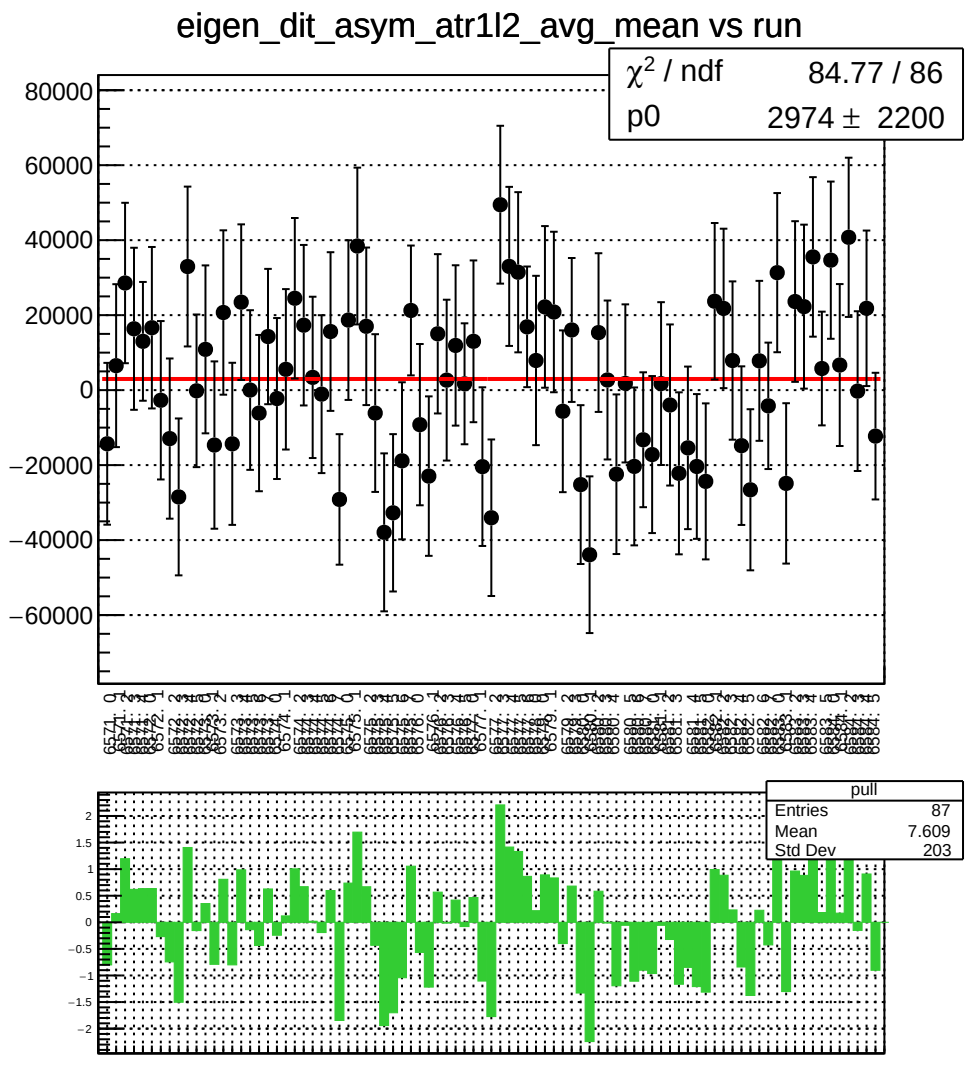

pull1D
Entries 87
Mean 0.002091
Std Dev 0.9871

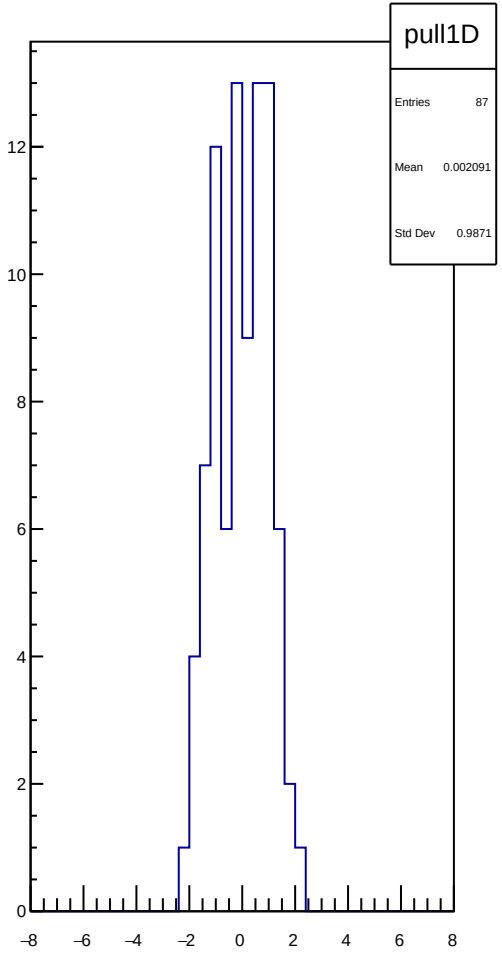

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 393.2 / 86
p0 2021 ± 1.556
2150
2100
2050
2000
1950

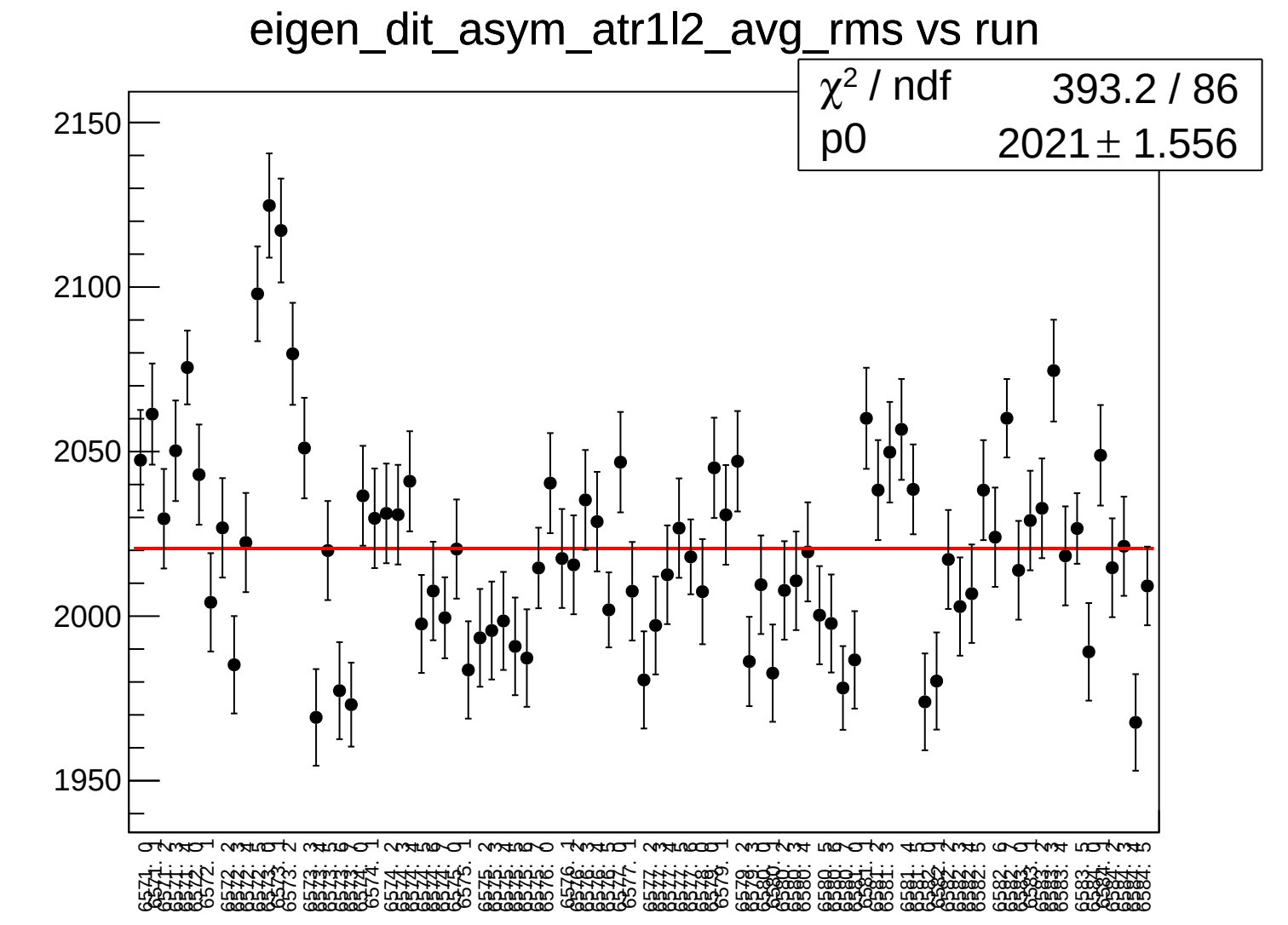

asym_atr1l2_avg_dit_correction_mean vs run
χ² / ndf 96.24 / 86
p0 3380 ± 5637
×10³
pull
Entries 87
Mean −812.7
Std Dev 0

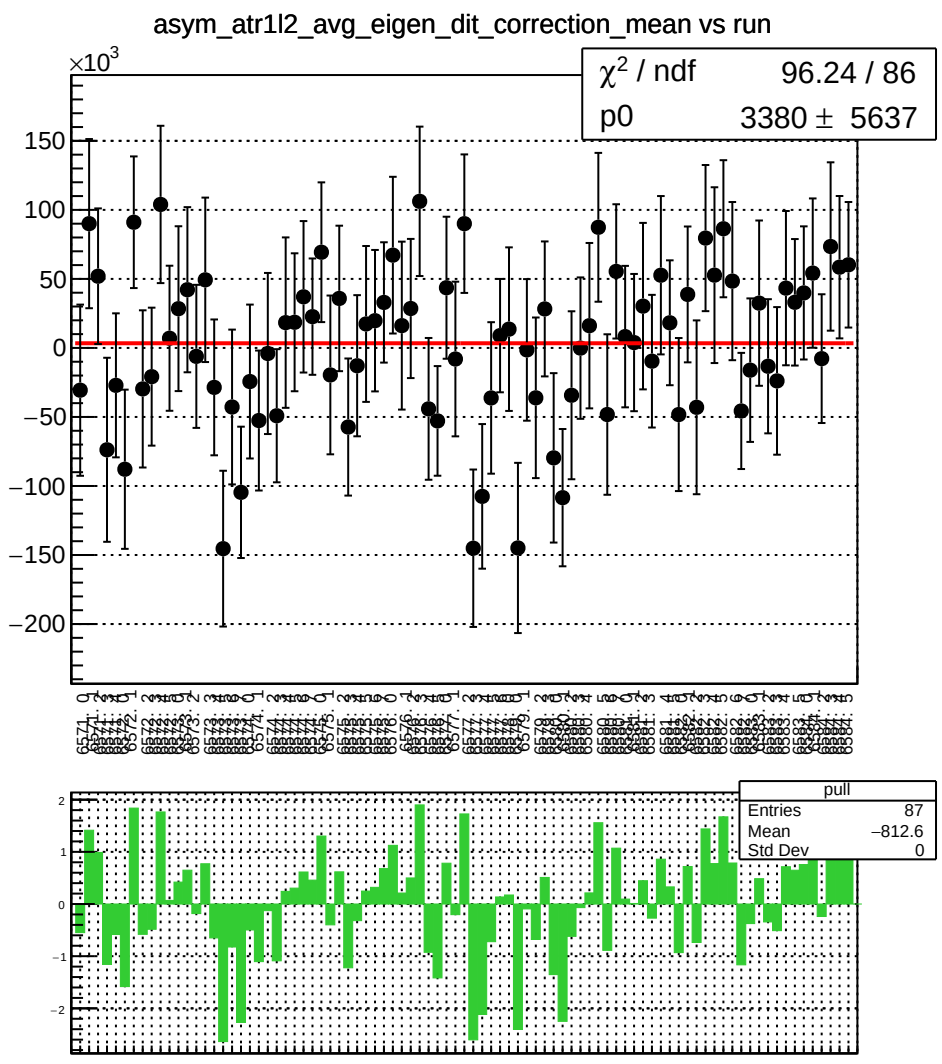

pull1D
Entries 87
Mean −0.00496
Std Dev 1.052

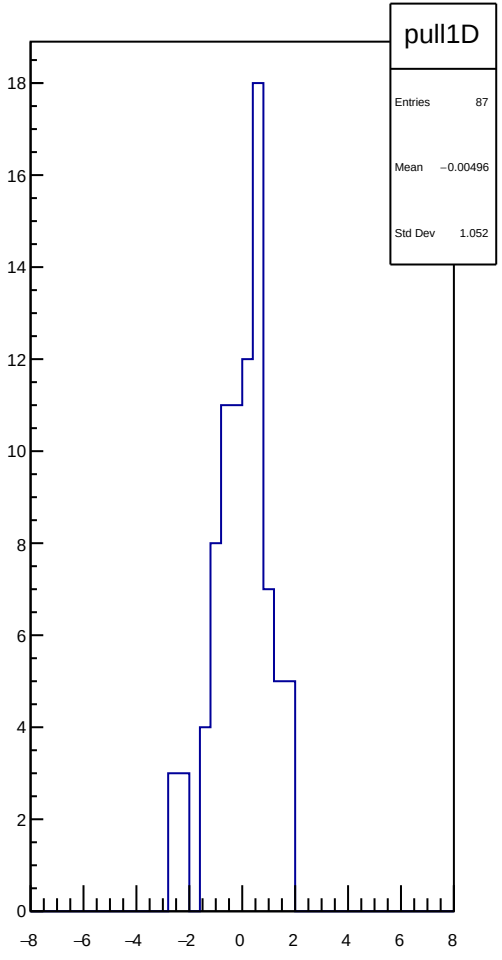

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.285e+04 / 86
p0 5157 ± 3.986
7000
6500
6000
5500
5000
4500

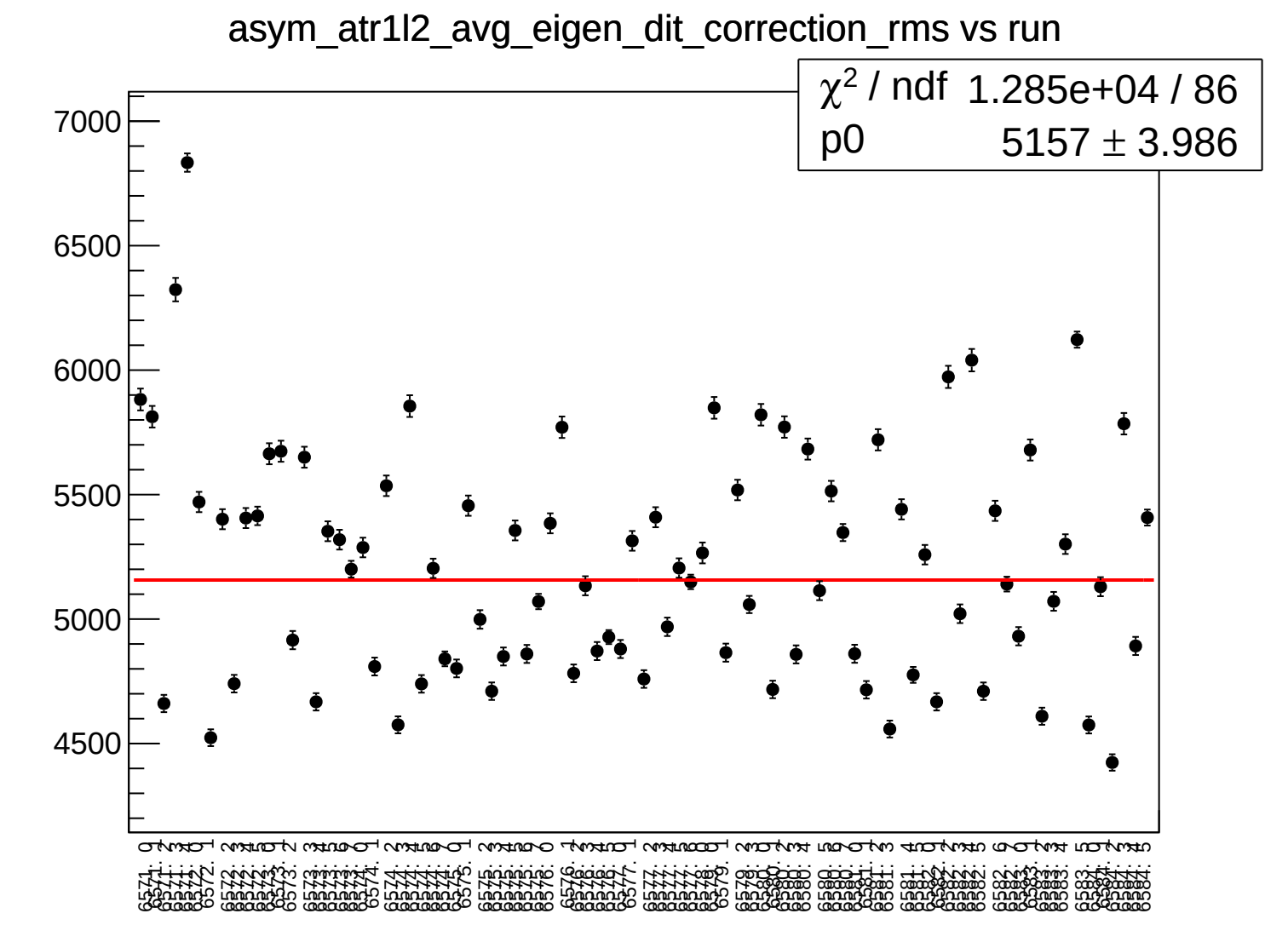

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 84.77 / 86
p0 2974 ± 2200
pull
Entries 87
Mean 7.609
Std Dev 203

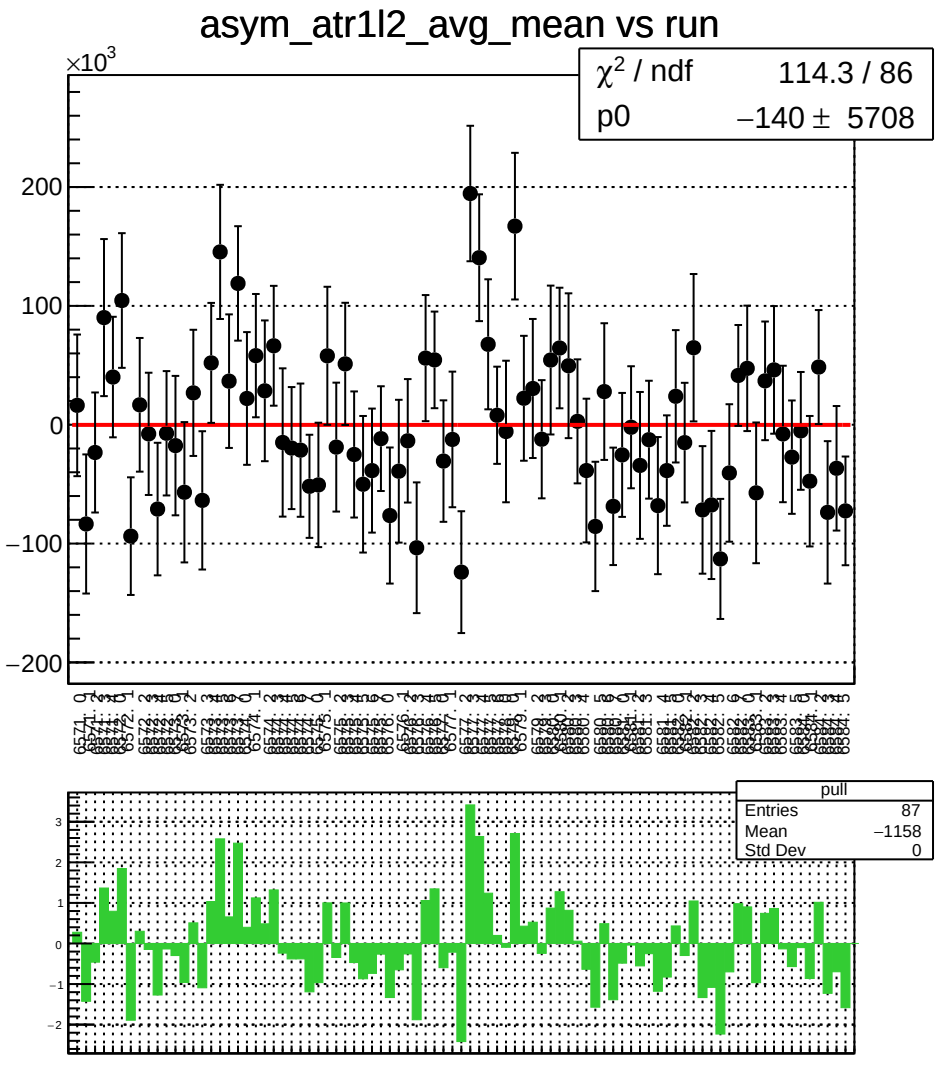

pull1D
Entries 87
Mean 0.002091
Std Dev 0.9871

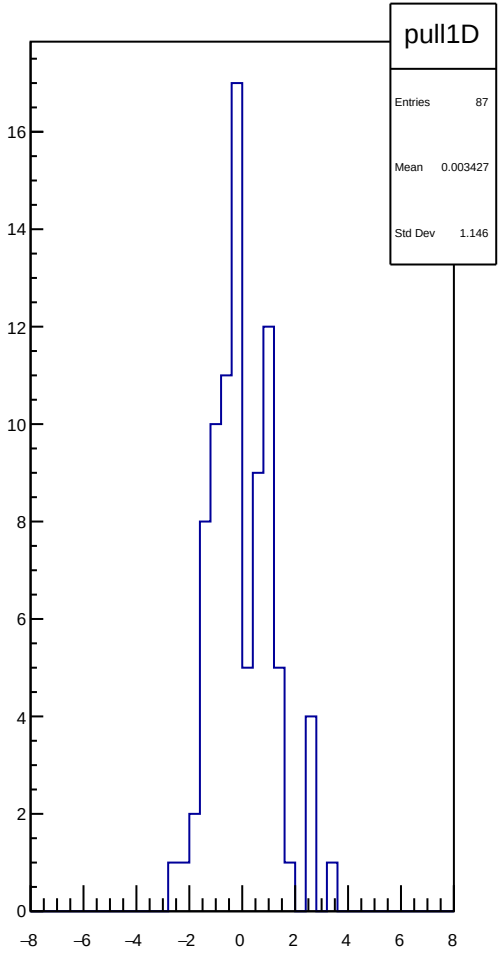

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 393.2 / 86
p0 2021 ± 1.556
2150
2100
2050
2000
1950

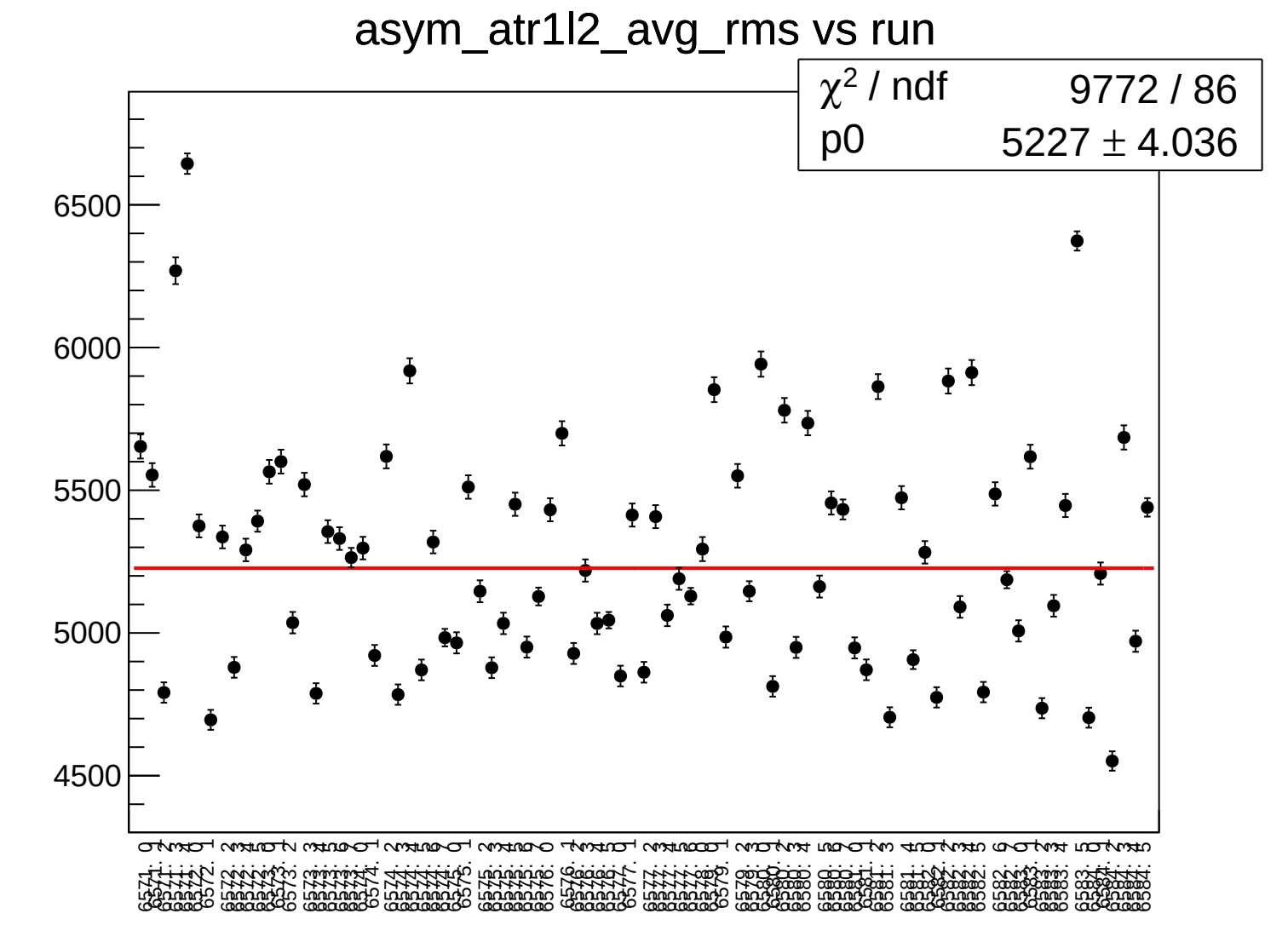

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.24 / 86
p0 3380 ± 5637
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −812.6
Std Dev 0
2
1
0
−1
−2

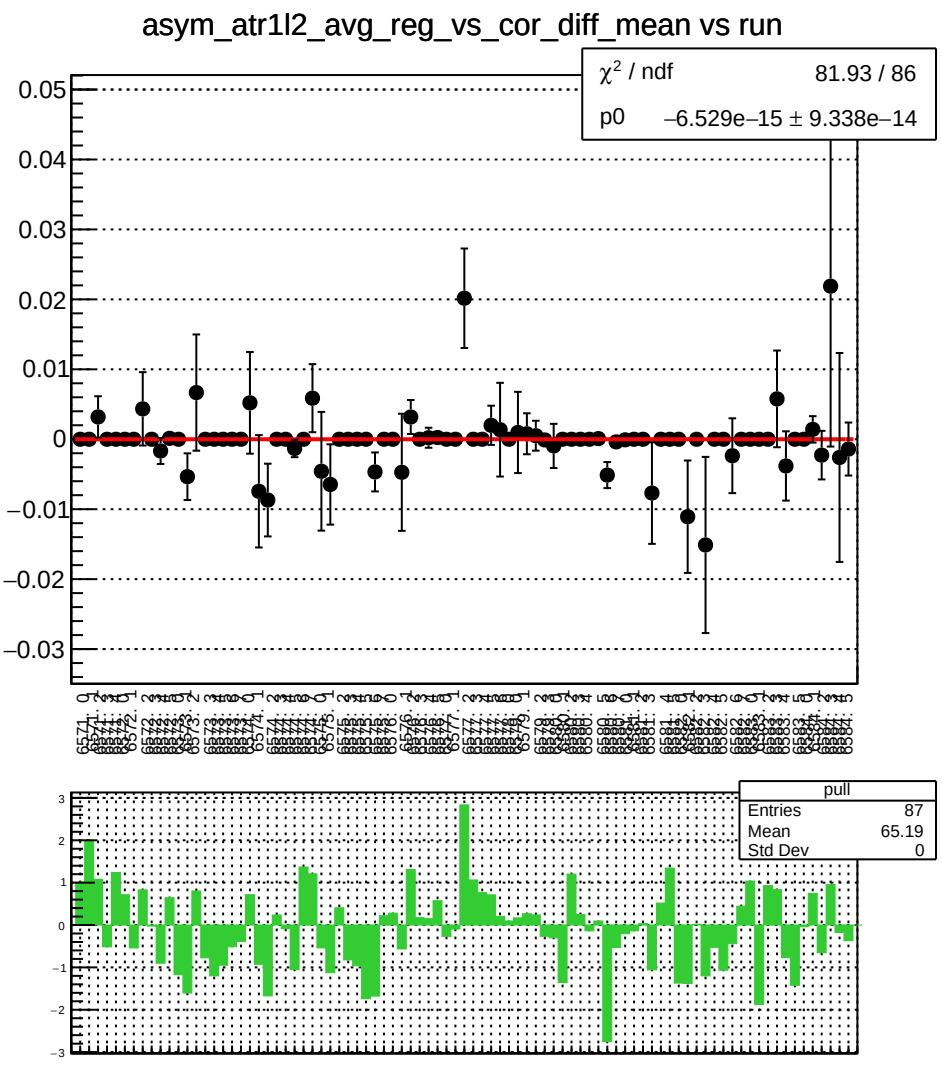

pull1D
Entries 87
Mean −0.00496
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

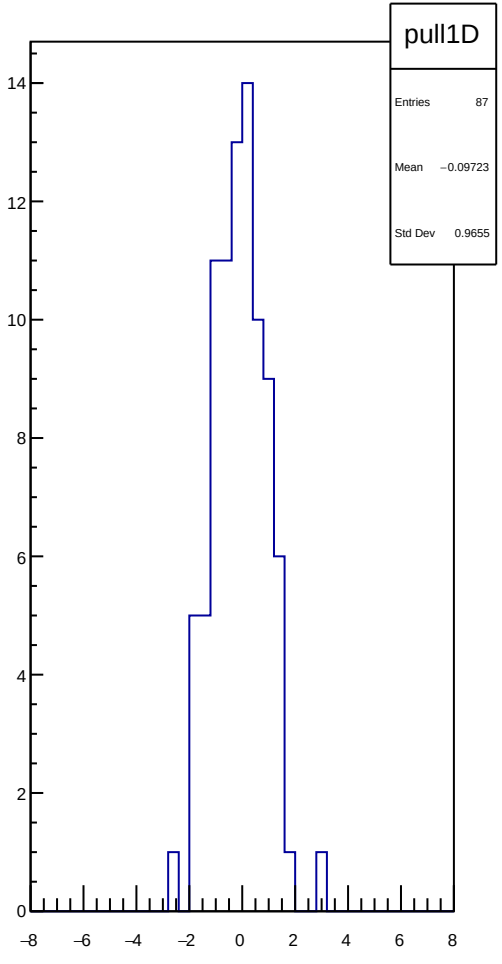

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.285e+04 / 86
p0 5157 ± 3.986
7000
6500
6000
5500
5000
4500

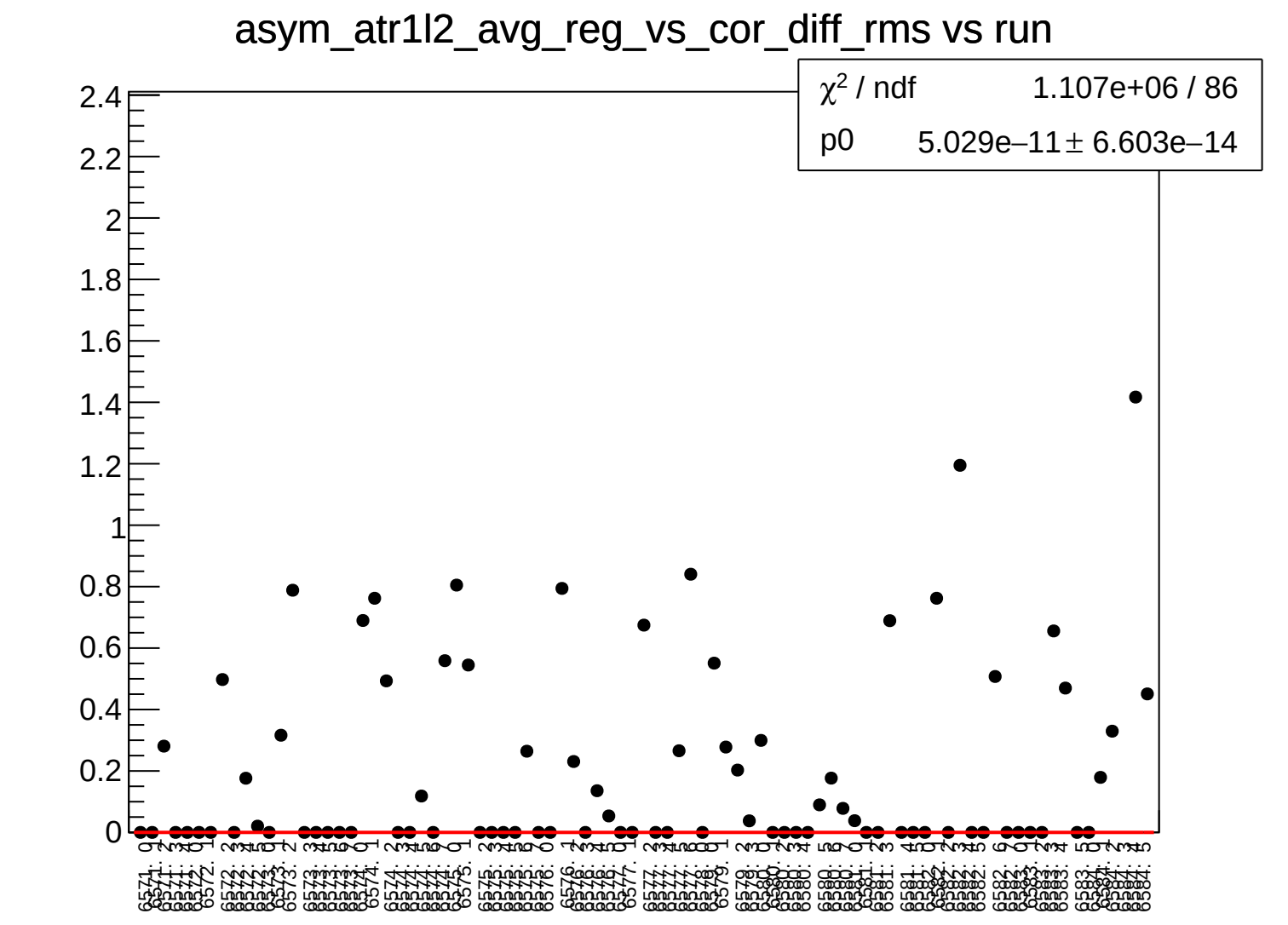

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 114.3 / 86
p0 −140 ± 5708
200
100
0
−100
−200
pull
Entries 87
Mean −1158
Std Dev 0
3
2
1
0
−1
−2

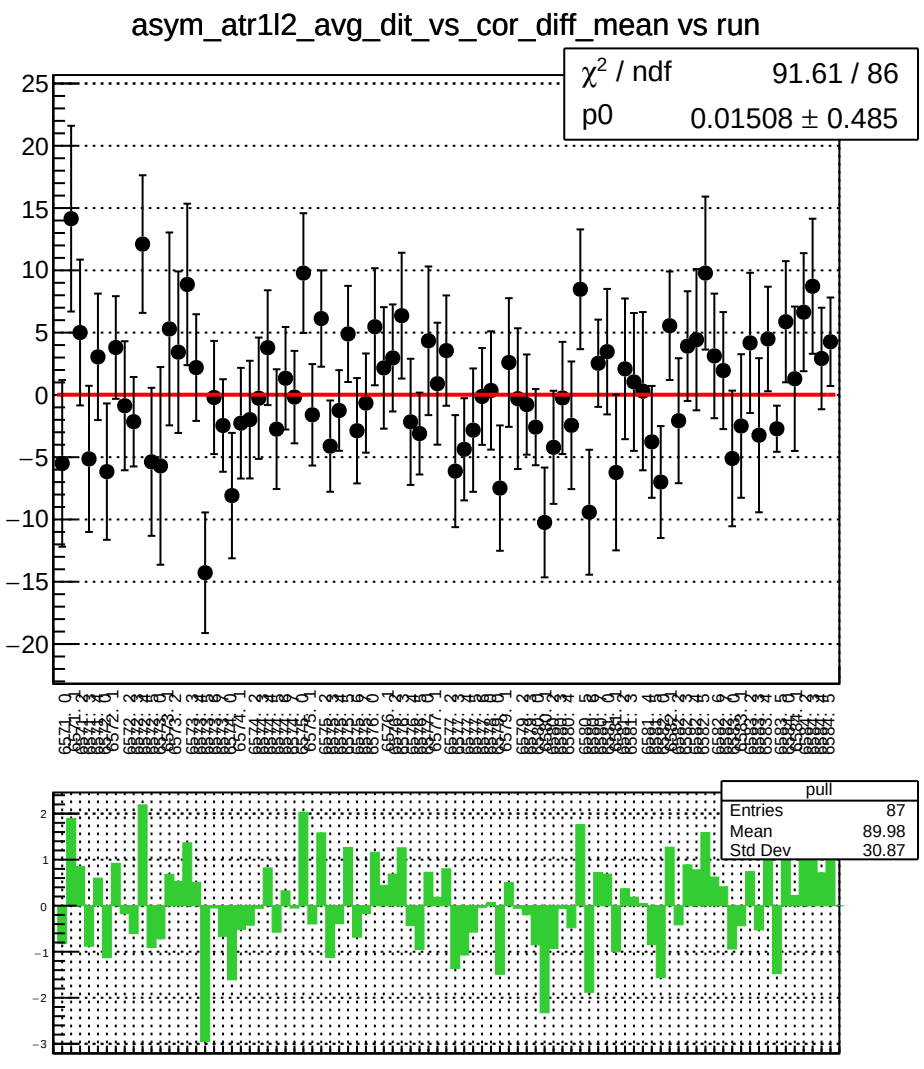

pull1D
Entries 87
Mean 0.003427
Std Dev 1.146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

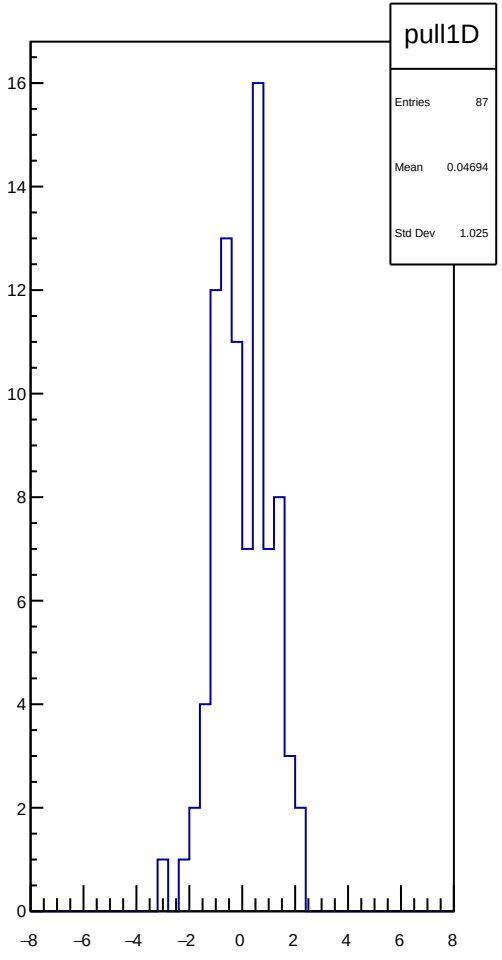

asym_atr1l2_avg_rms vs run
χ² / ndf 9772 / 86
p0 5227 ± 4.036
6500
6000
5500
5000
4500

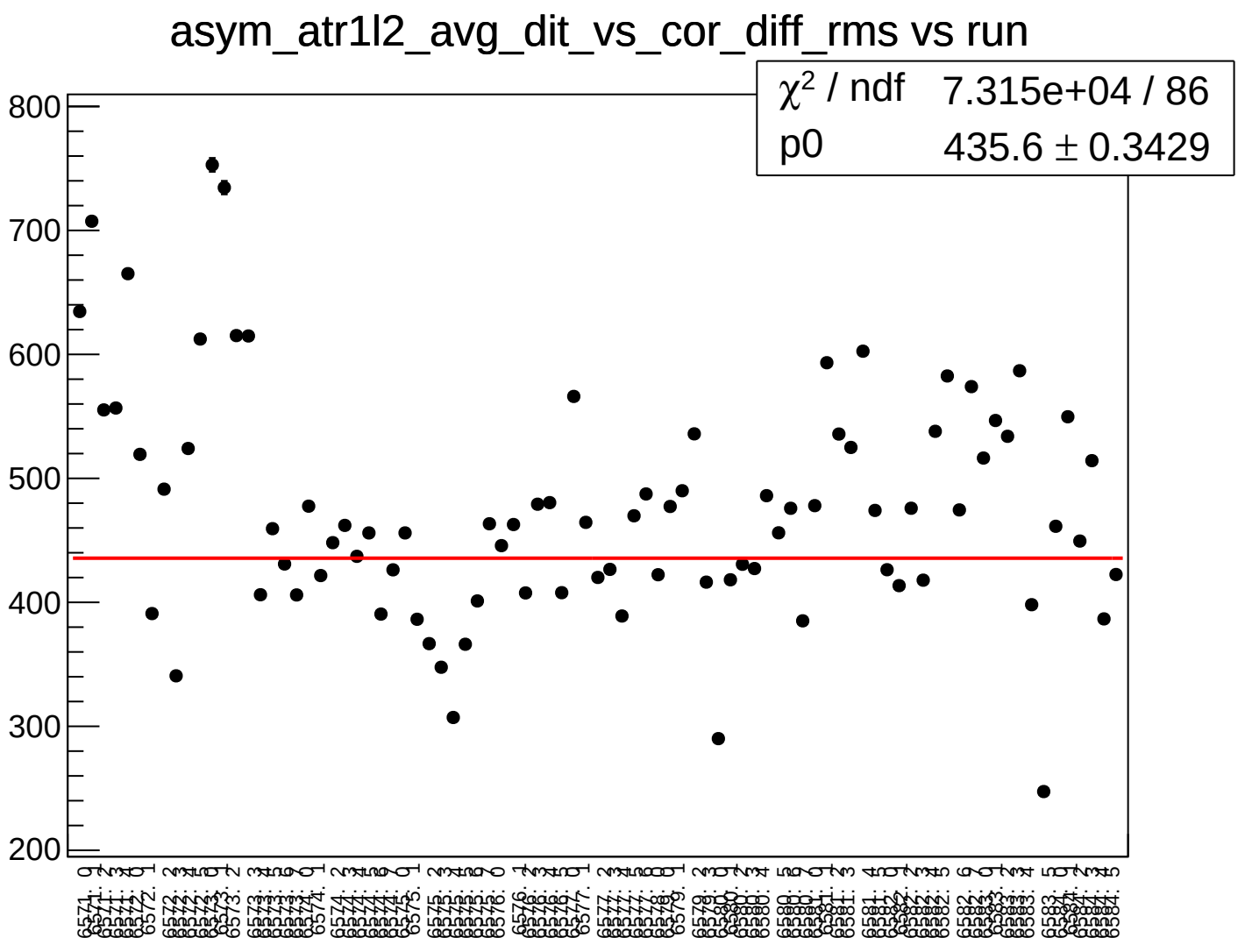

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.93 / 86
p0 −6.529e−15 ± 9.338e−14
pull
Entries 87
Mean 65.19
Std Dev 0

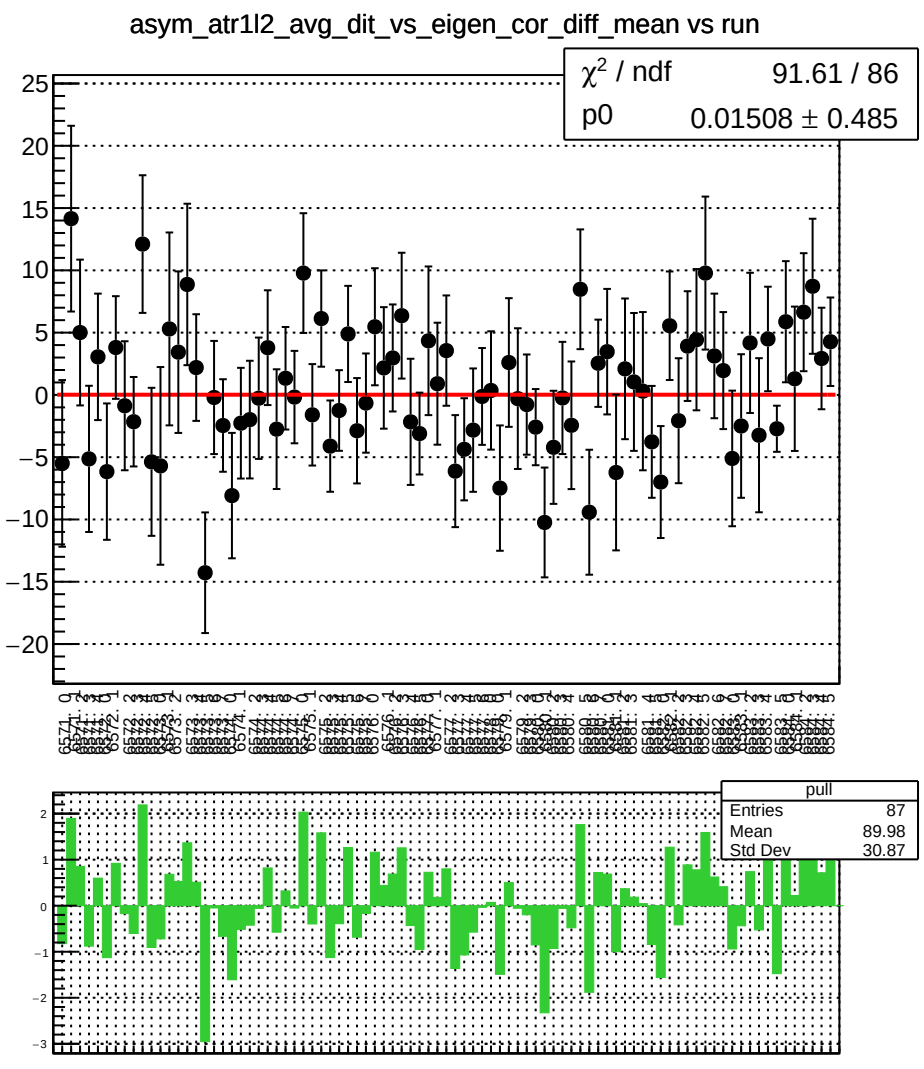

pull1D
Entries 87
Mean −0.09723
Std Dev 0.9655

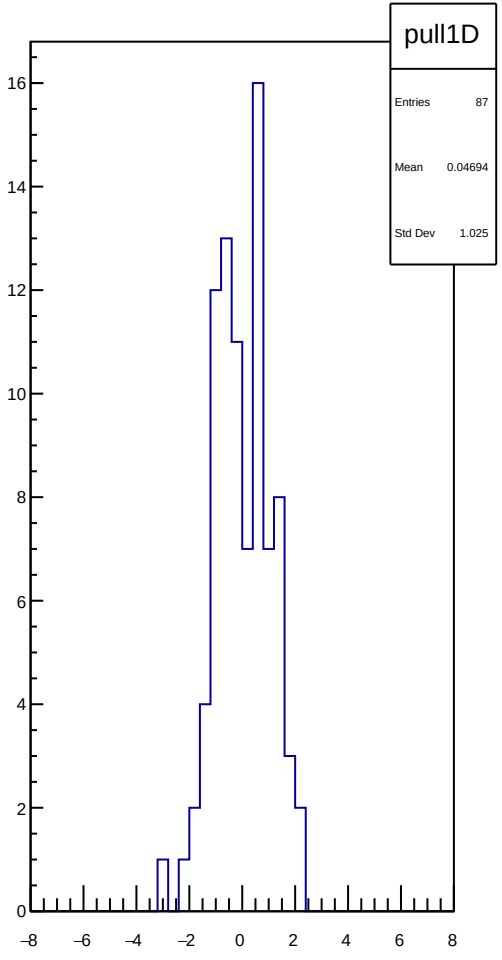

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.107e+06 / 86
p0 5.029e−11 ± 6.603e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

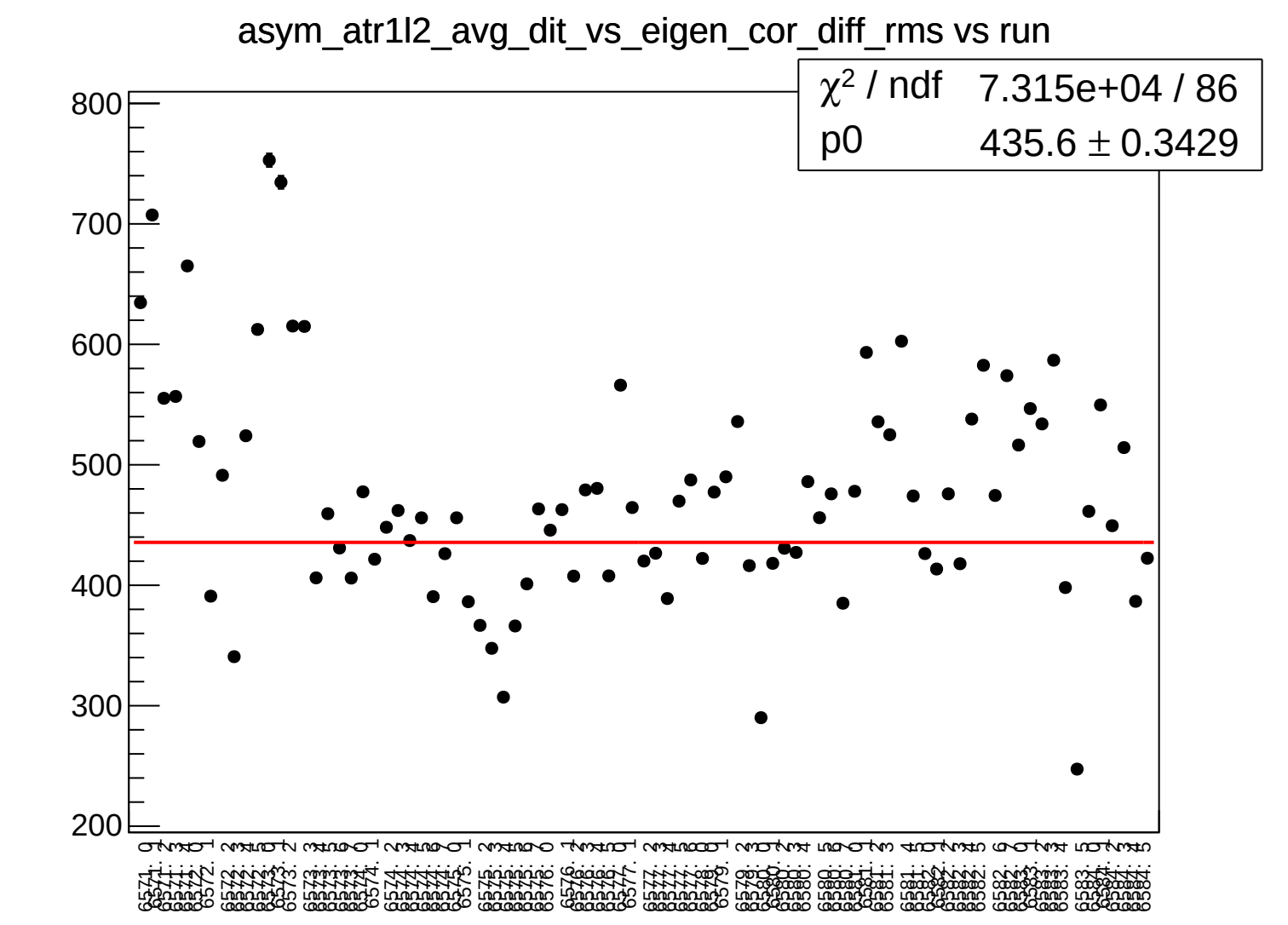

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.61 / 86
p0 0.01508 ± 0.485
pull
Entries 87
Mean 89.98
Std Dev 30.87

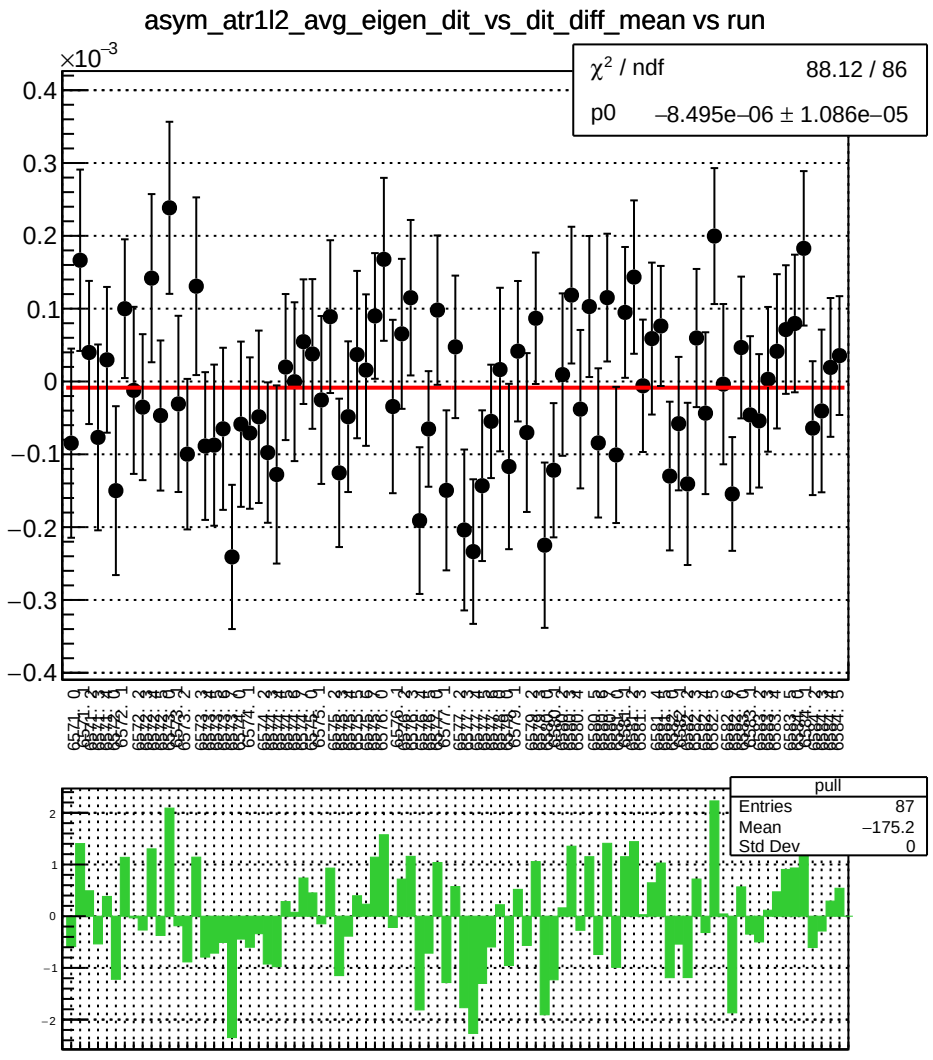

pull1D
Entries 87
Mean 0.04694
Std Dev 1.025

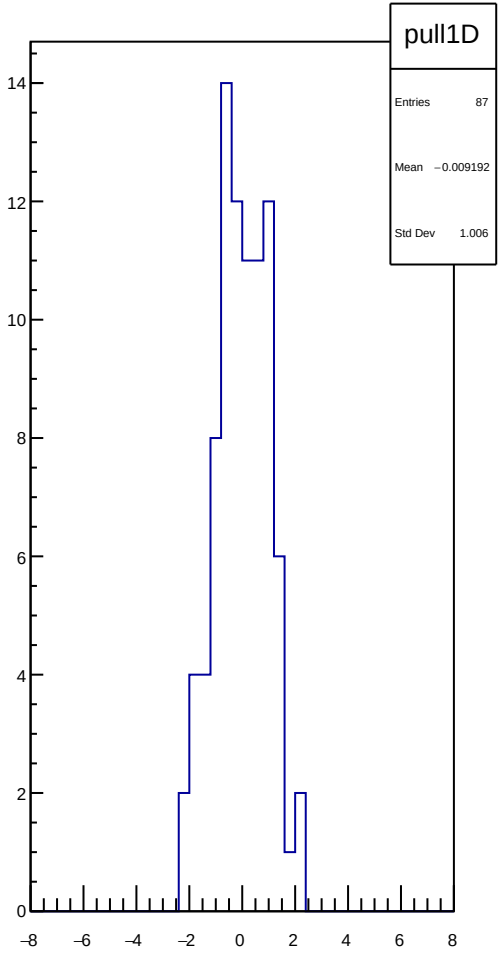

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.315e+04 / 86
p0 435.6 ± 0.3429
800
700
600
500
400
300
200

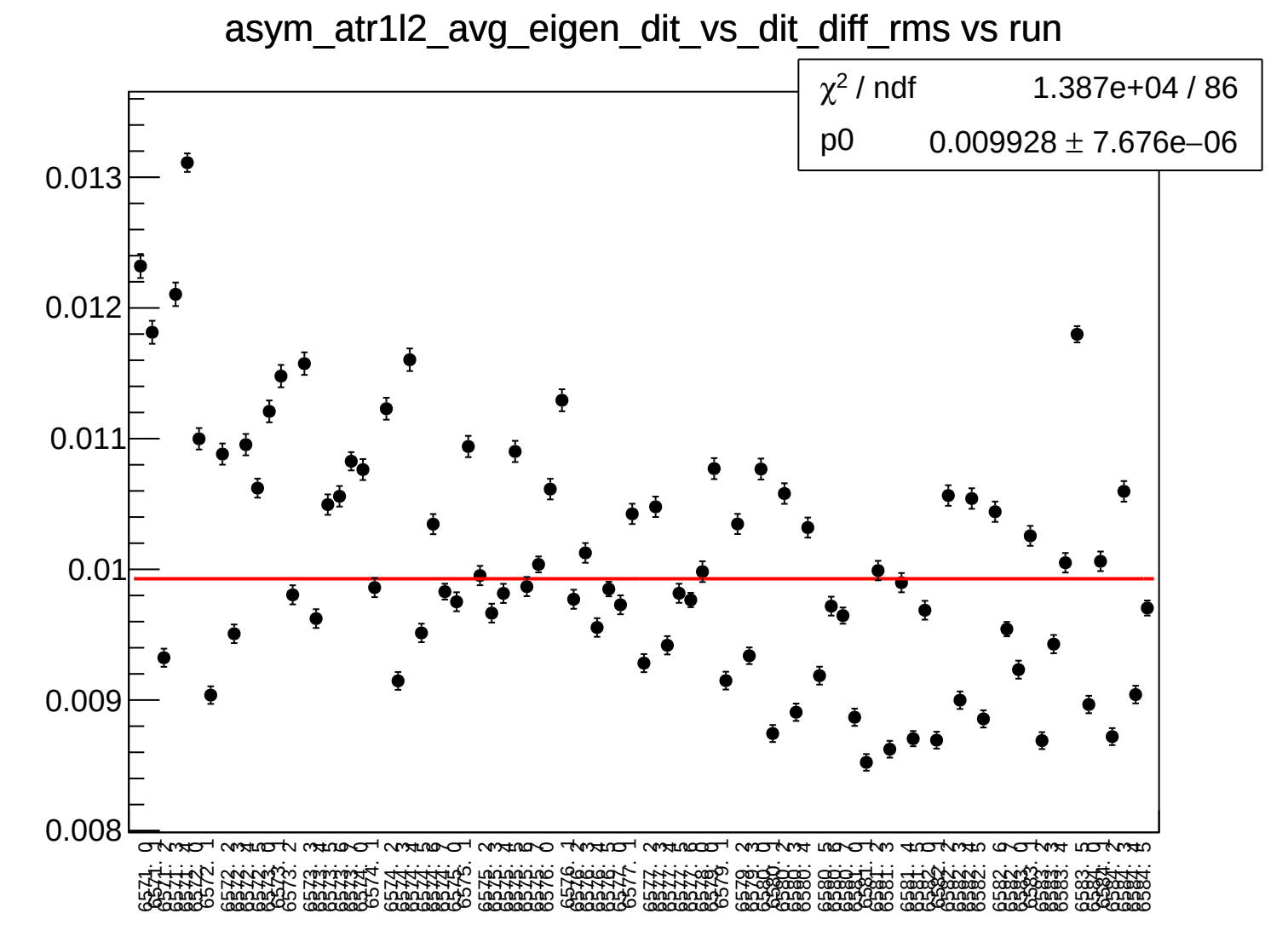

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.61 / 86
p0 0.01508 ± 0.485
pull
Entries 87
Mean 89.98
Std Dev 30.87

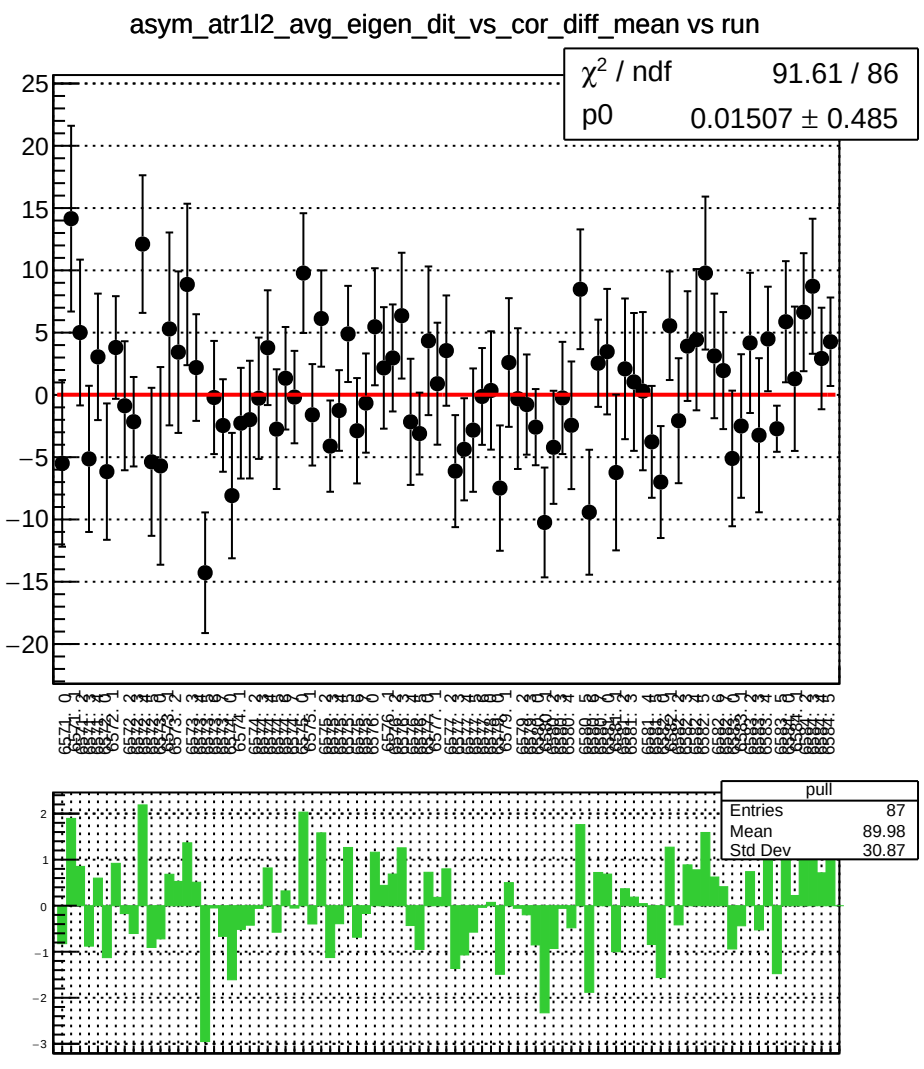

pull1D
Entries 87
Mean 0.04694
Std Dev 1.025

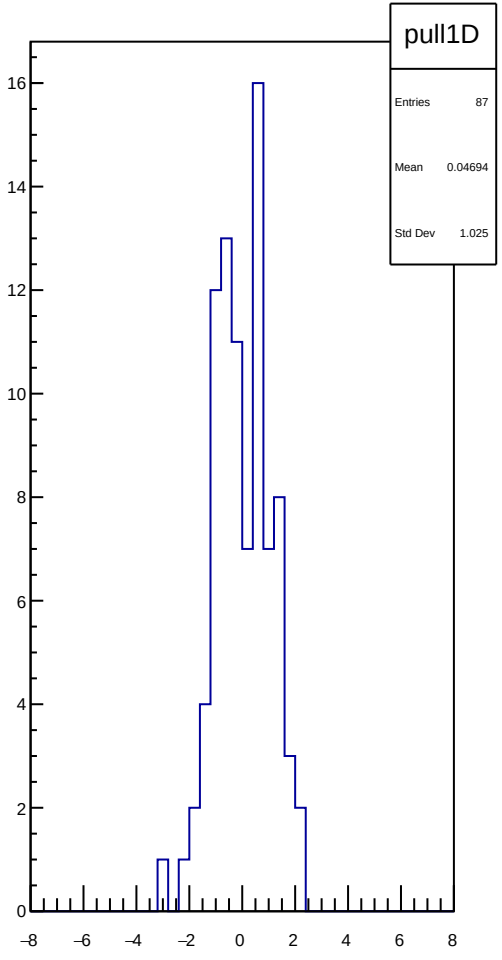

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.315e+04 / 86
p0 435.6 ± 0.3429
800
700
600
500
400
300
200

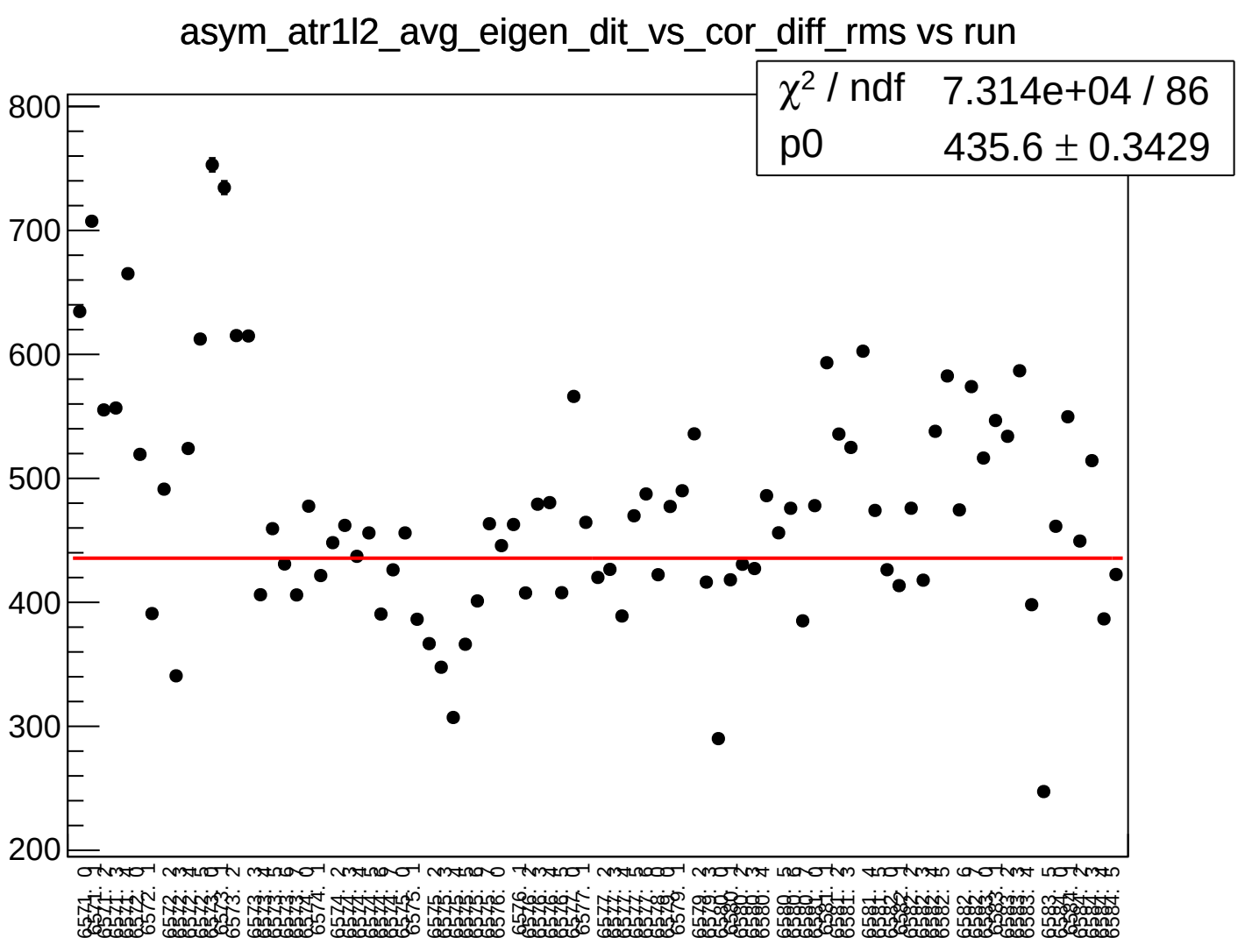

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.12 / 86
p0 −8.495e−06 ± 1.086e−05
pull
Entries 87
Mean −175.2
Std Dev 0

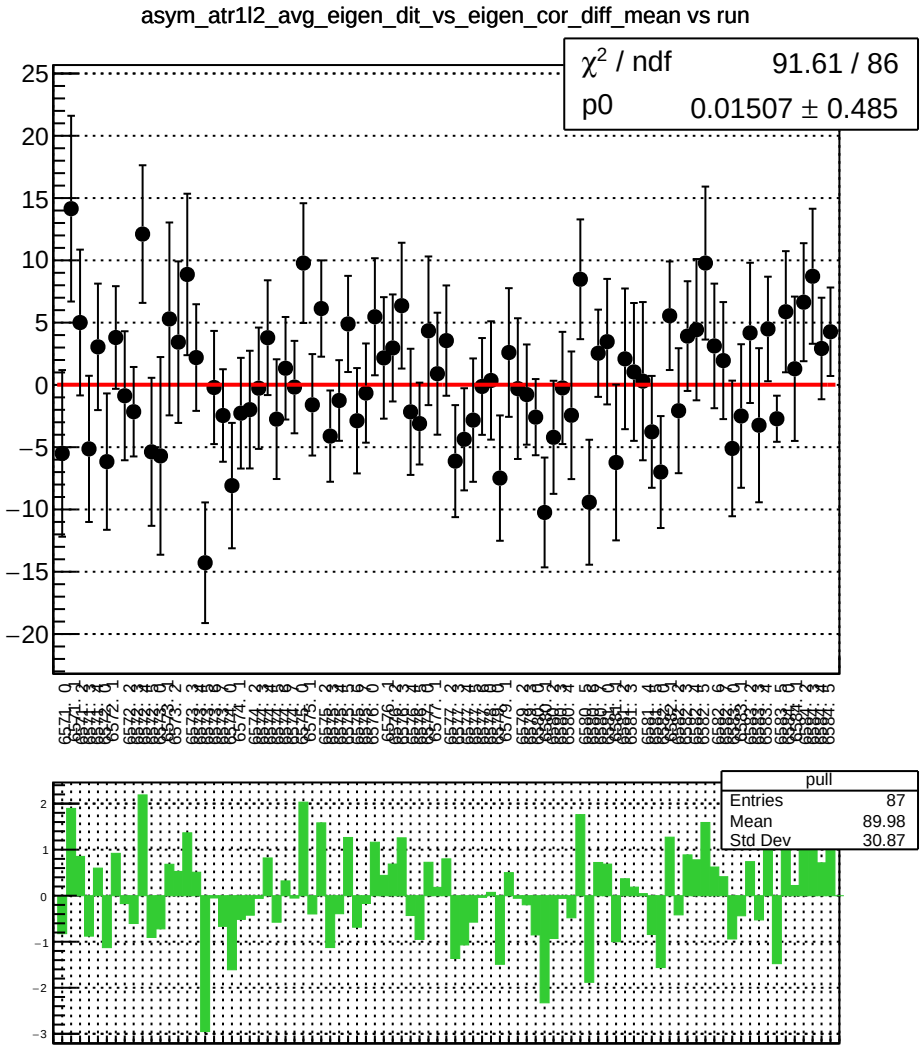

pull1D
Entries 87
Mean −0.009192
Std Dev 1.006

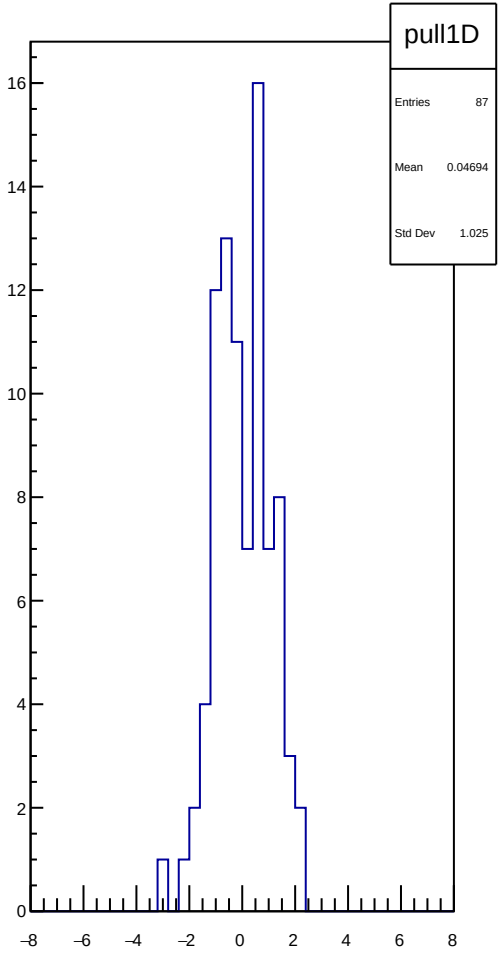

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.387e+04 / 86
p0 0.009928 ± 7.676e−06
0.013
0.012
0.011
0.01
0.009
0.008

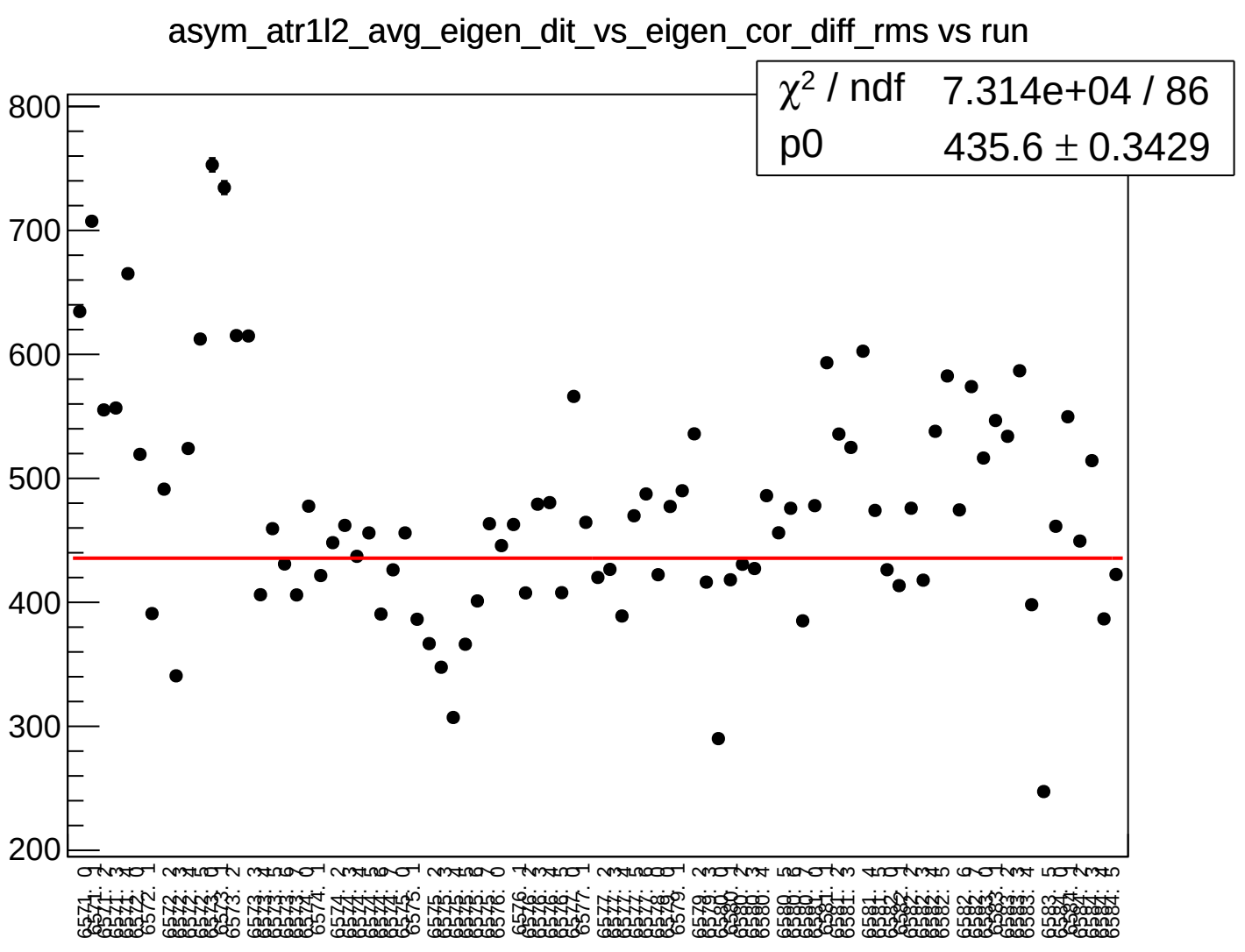

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.61 / 86
p0 0.01507 ± 0.485
pull
Entries 87
Mean 89.98
Std Dev 30.87

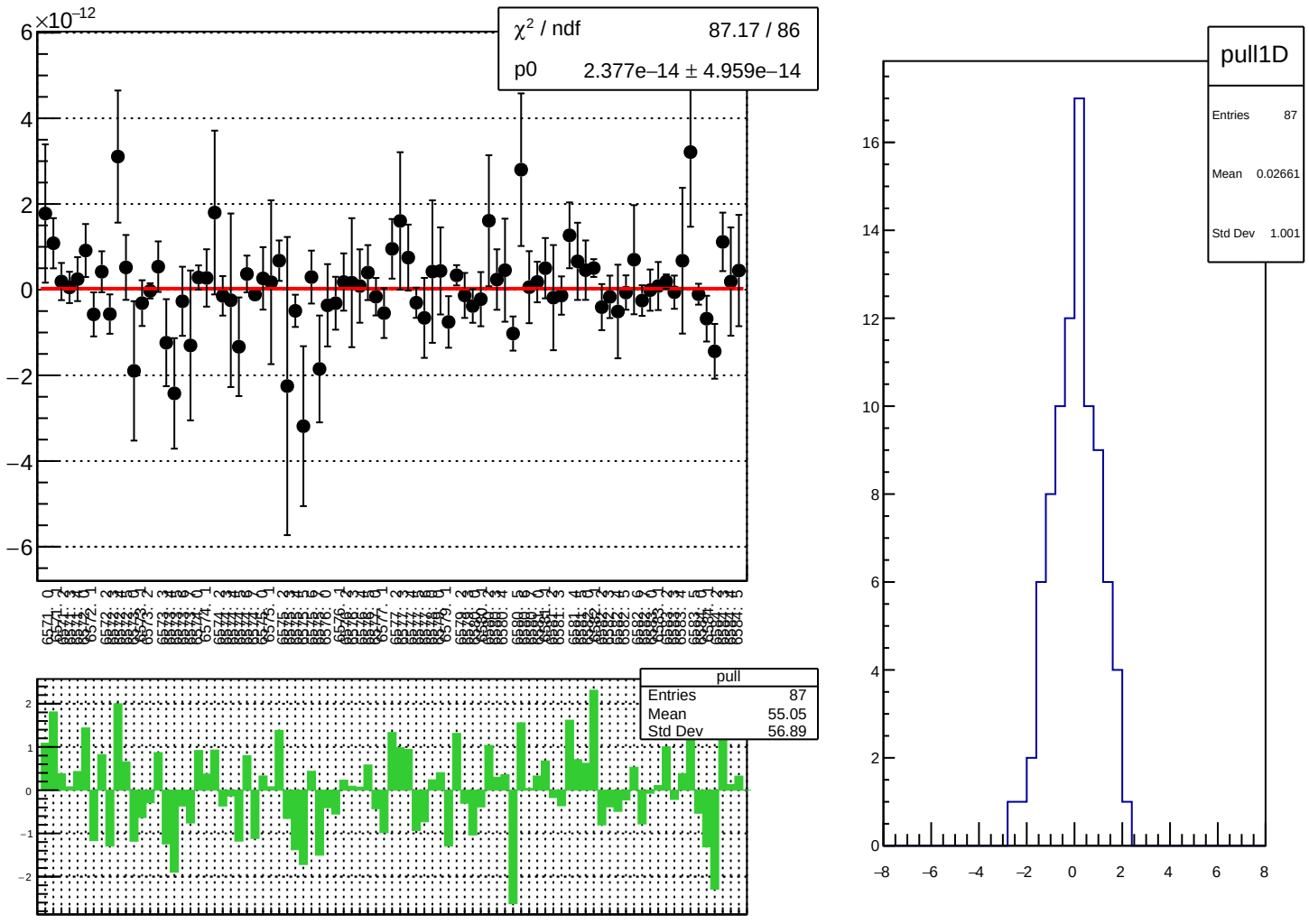

pull1D
Entries 87
Mean 0.04694
Std Dev 1.025

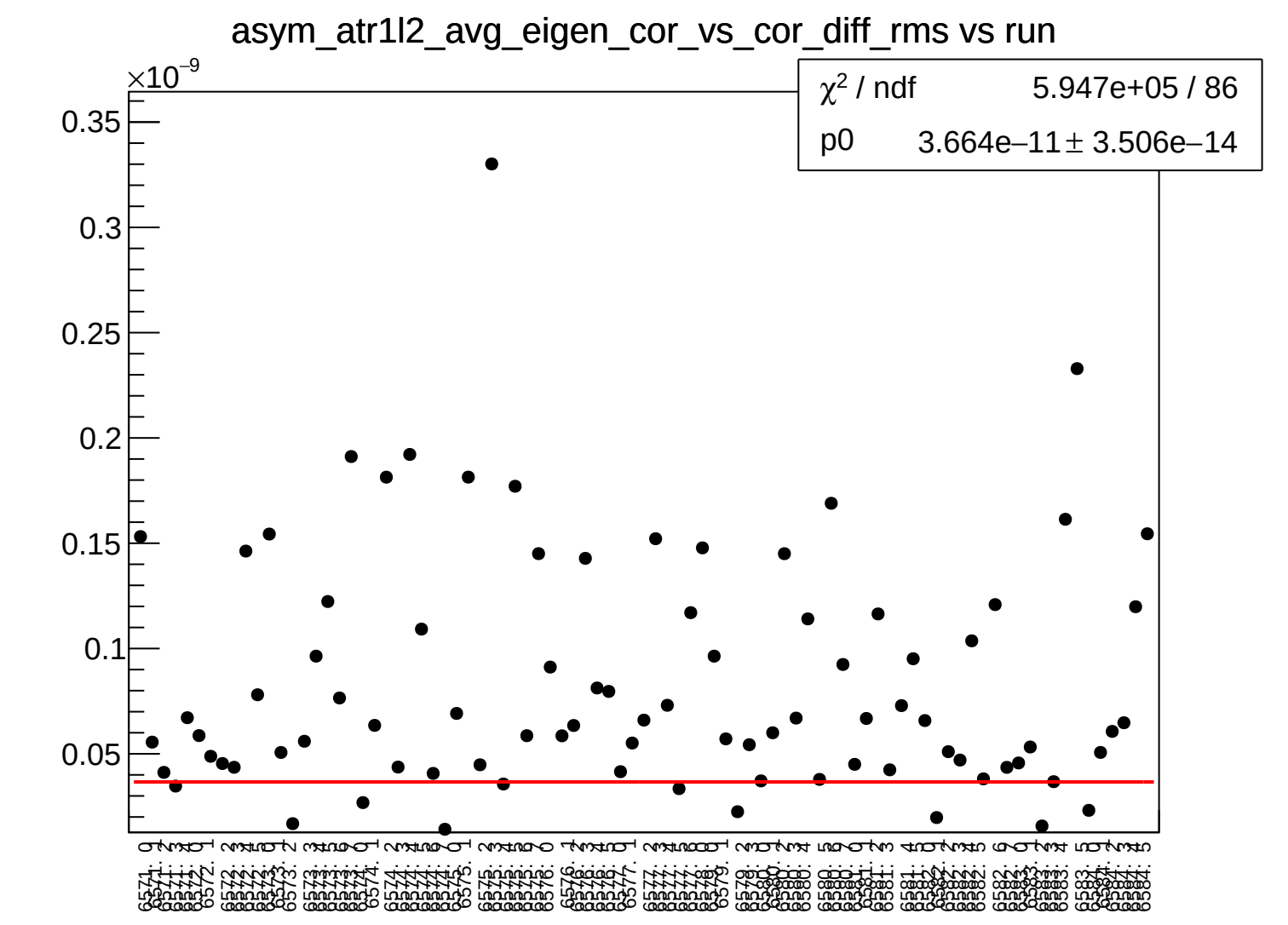

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.314e+04 / 86
p0 435.6 ± 0.3429
800
700
600
500
400
300
200

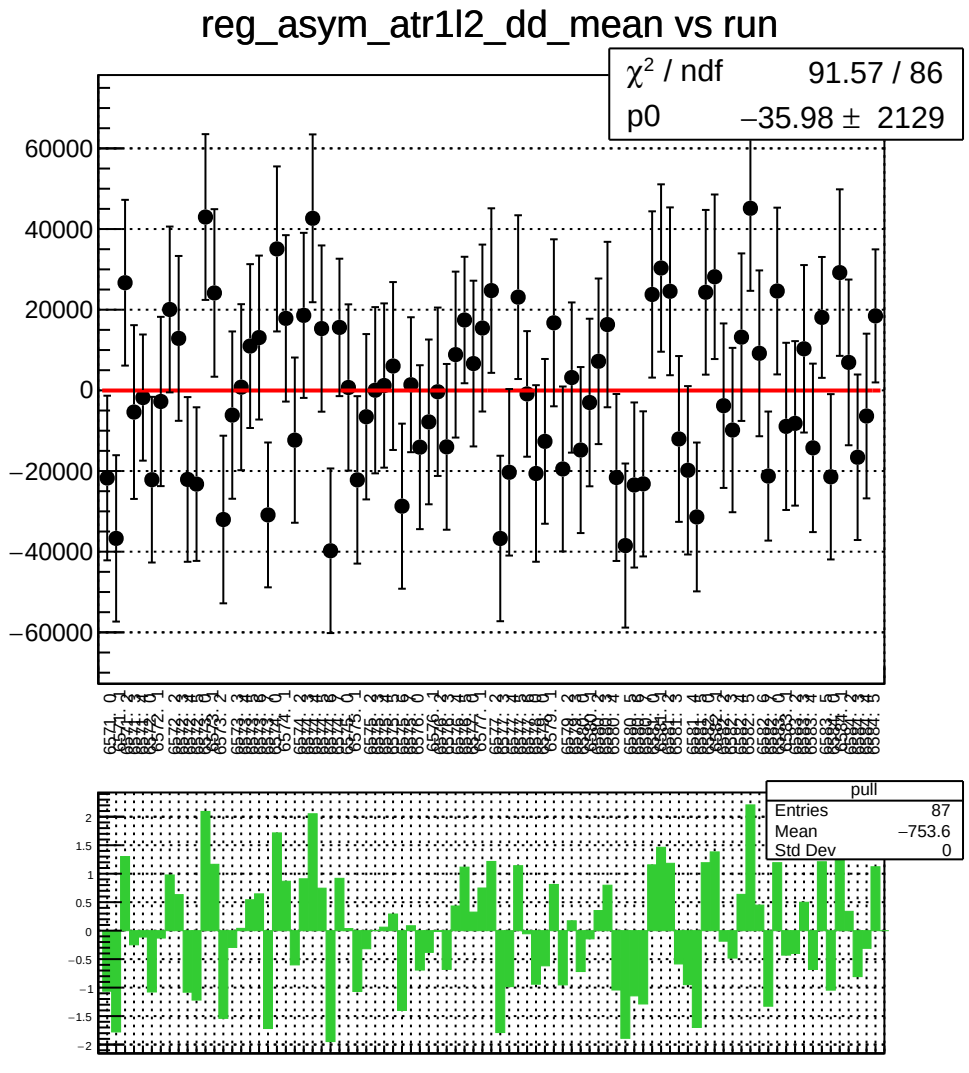

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.61 / 86
p0 0.01507 ± 0.485
pull
Entries 87
Mean 89.98
Std Dev 30.87

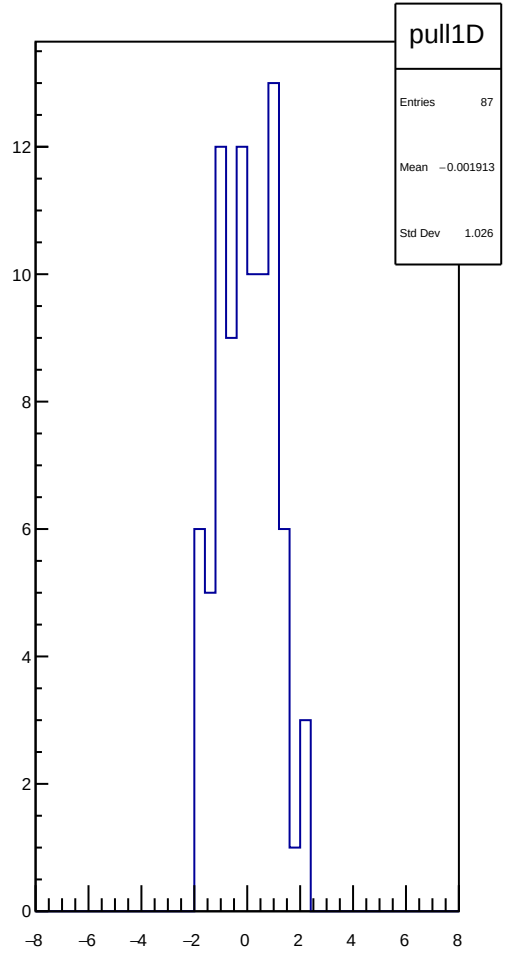

pull1D
Entries 87
Mean 0.04694
Std Dev 1.025

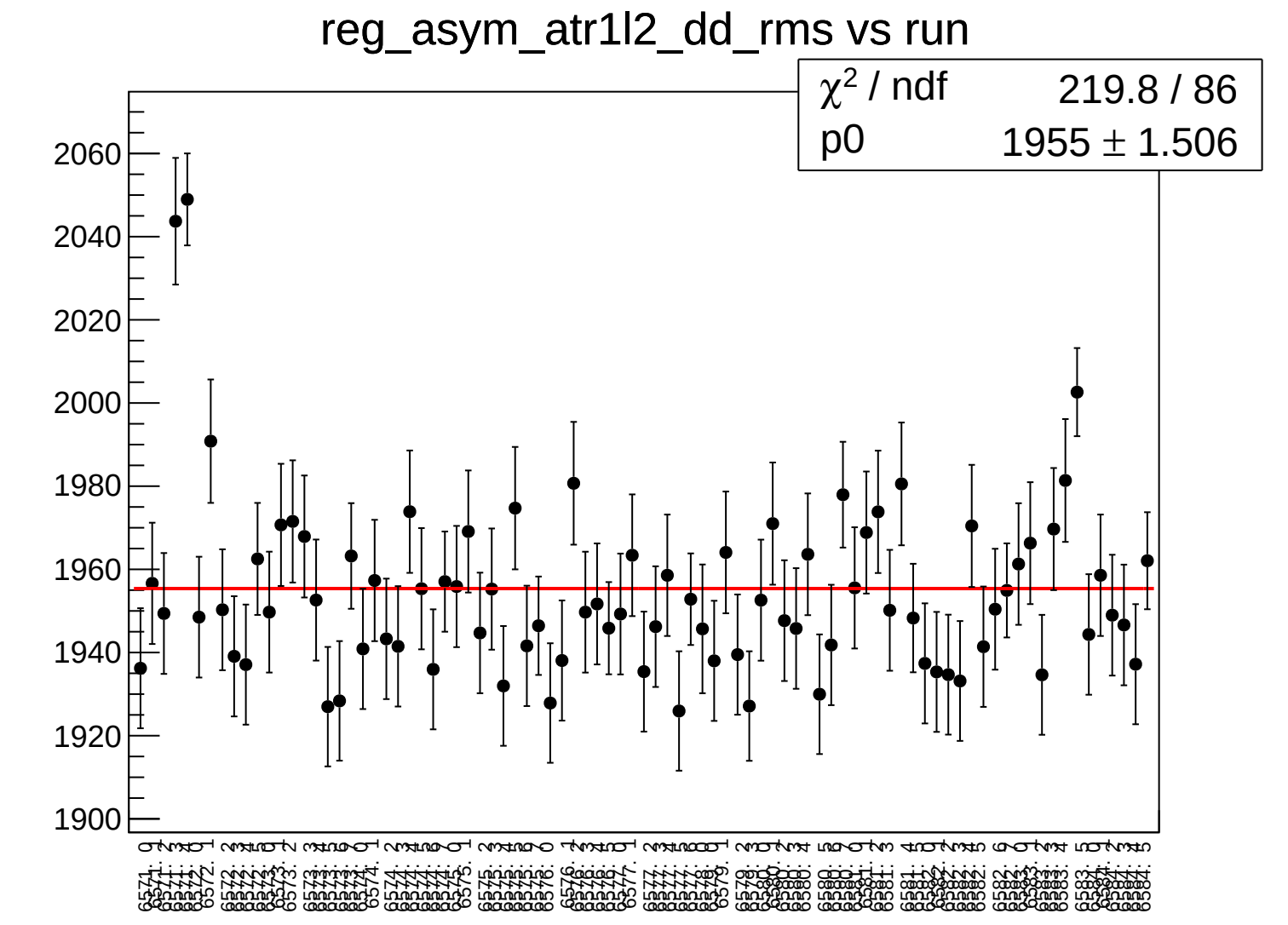

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.314e+04 / 86
p0 435.6 ± 0.3429
800
700
600
500
400
300
200

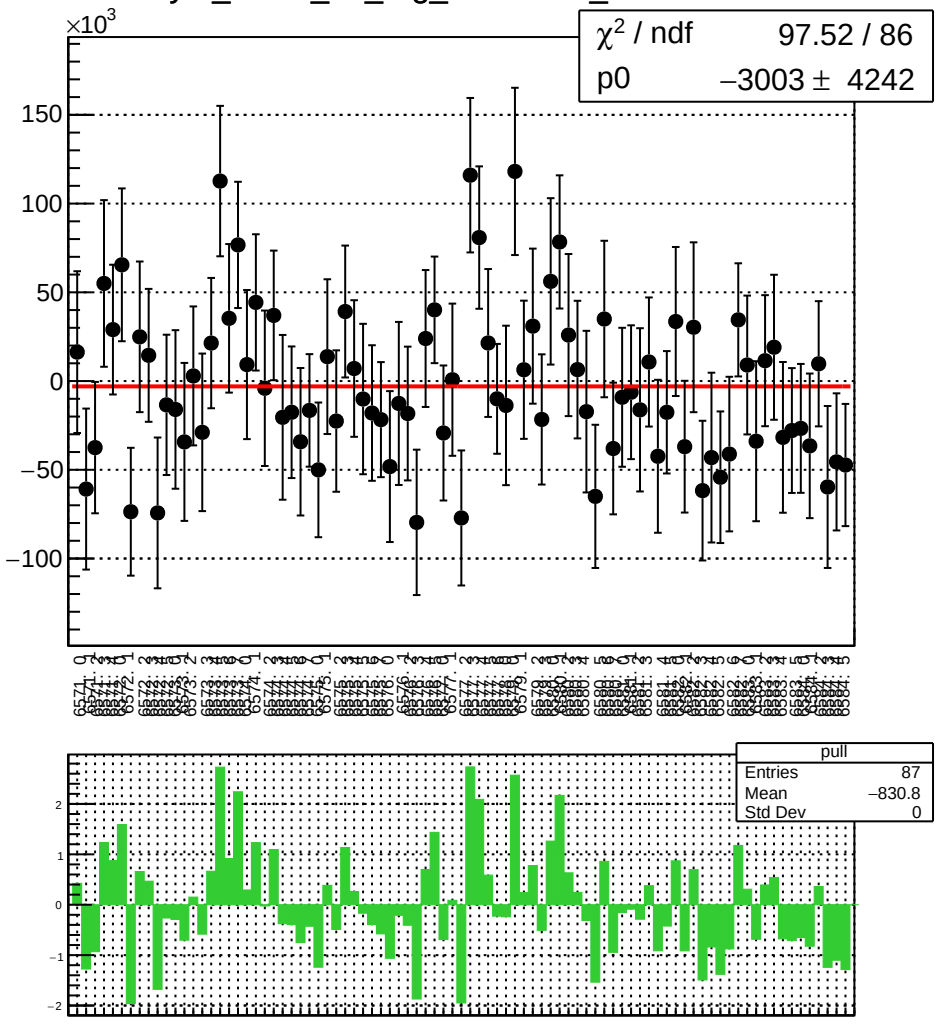

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.17 / 86
p0 2.377e−14 ± 4.959e−14
pull
Entries 87
Mean 55.05
Std Dev 56.89
pull1D
Entries 87
Mean 0.02661
Std Dev 1.001

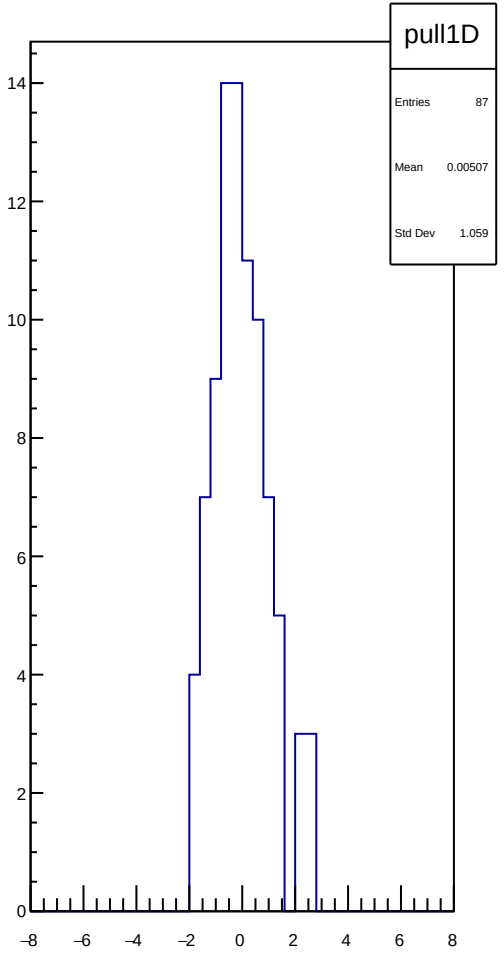

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.947e+05 / 86
p0 3.664e−11 ± 3.506e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

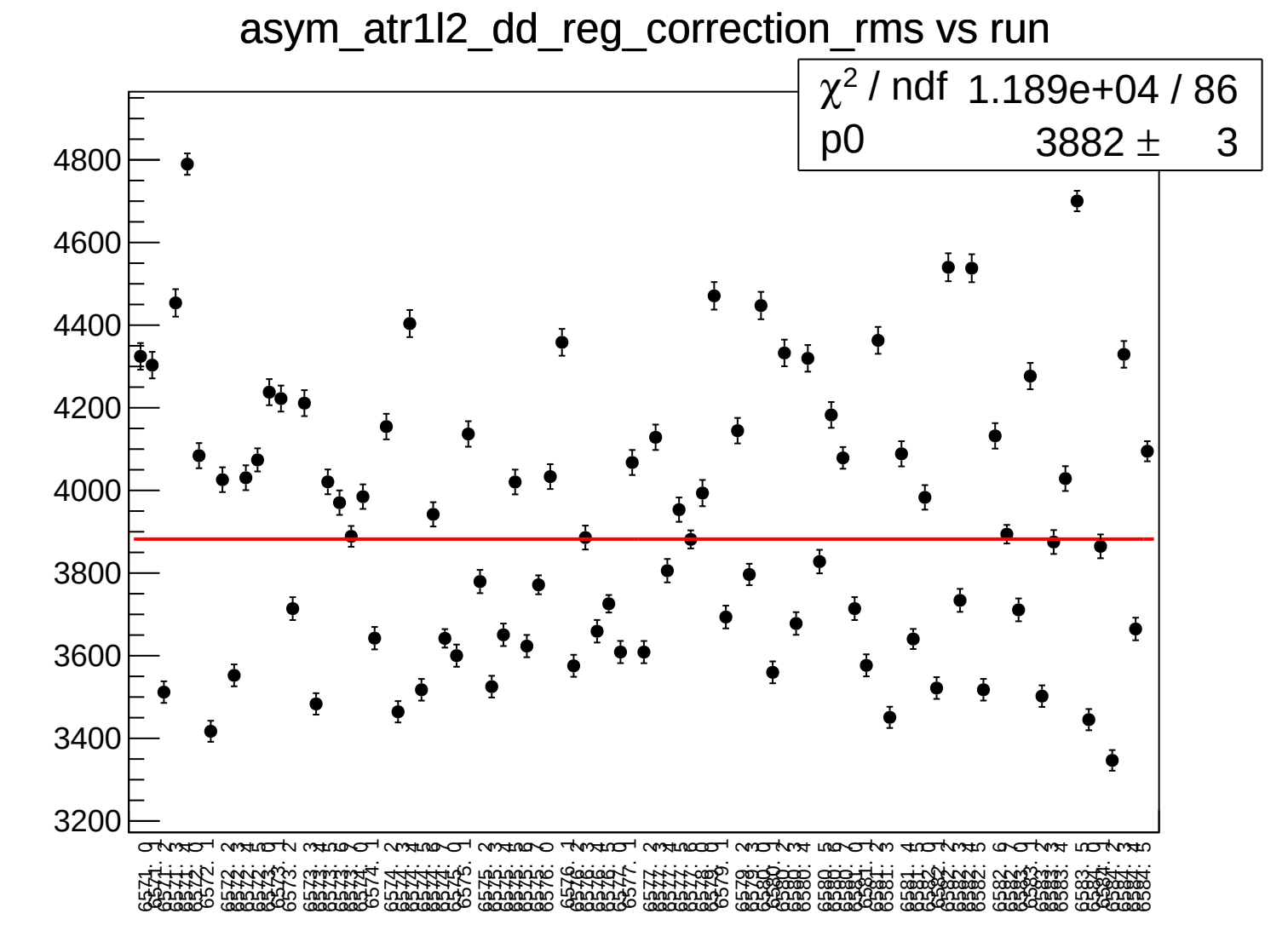

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 91.57 / 86
p0 −35.98 ± 2129
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −753.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

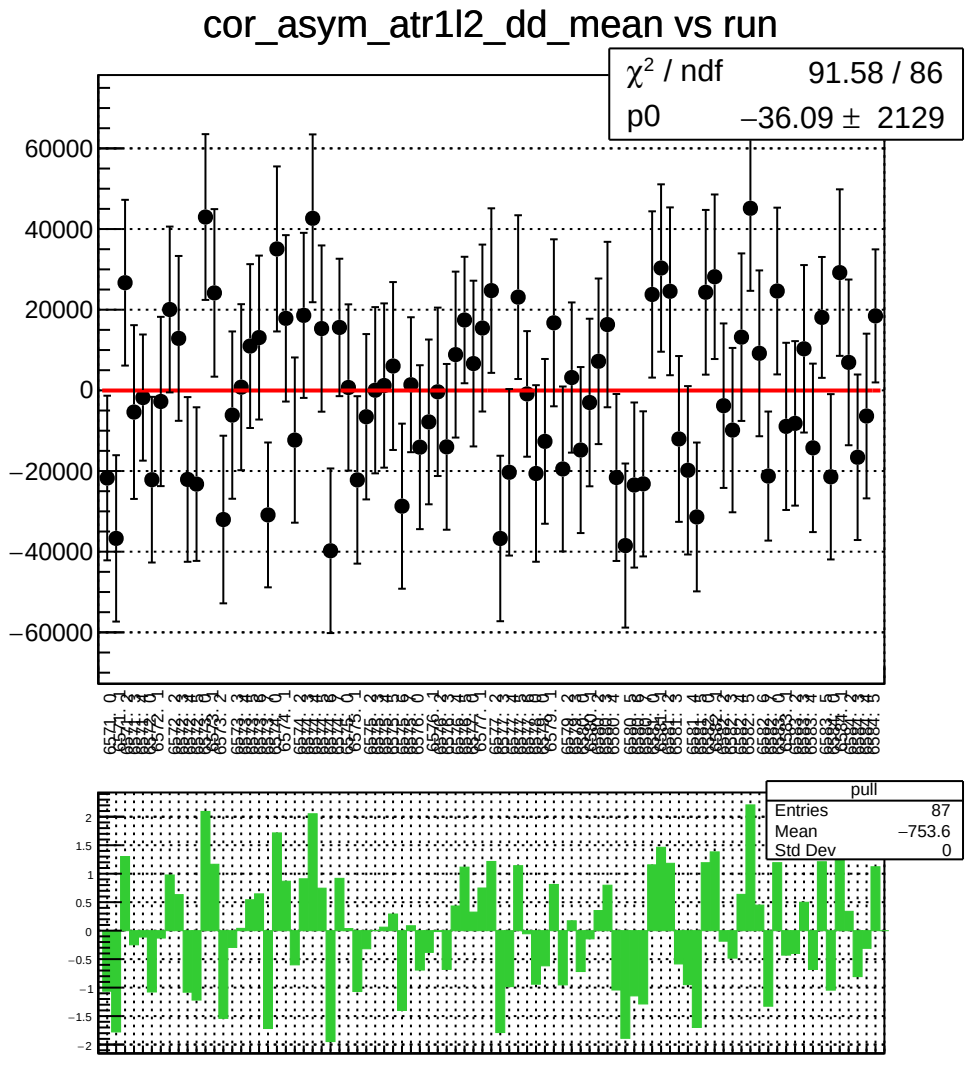

pull1D
Entries 87
Mean −0.001913
Std Dev 1.026
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

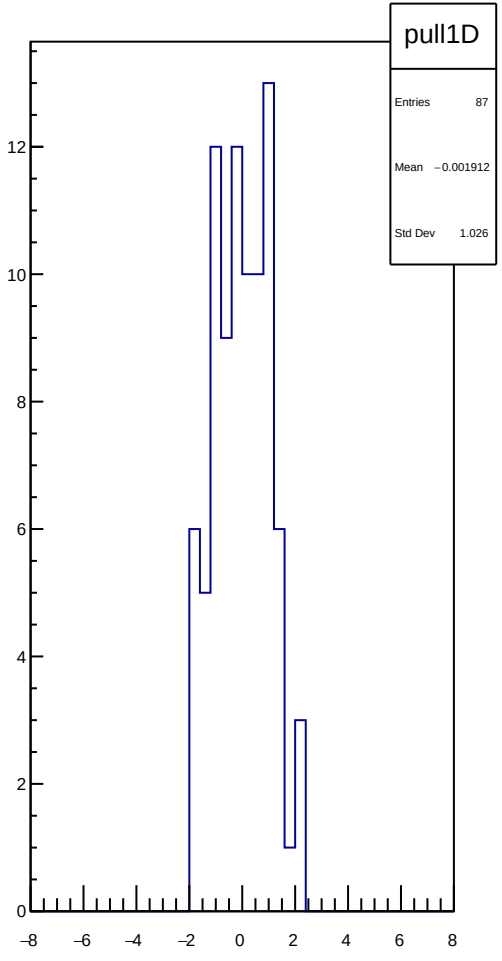

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 219.8 / 86
p0 1955 ± 1.506
2060
2040
2020
2000
1980
1960
1940
1920
1900

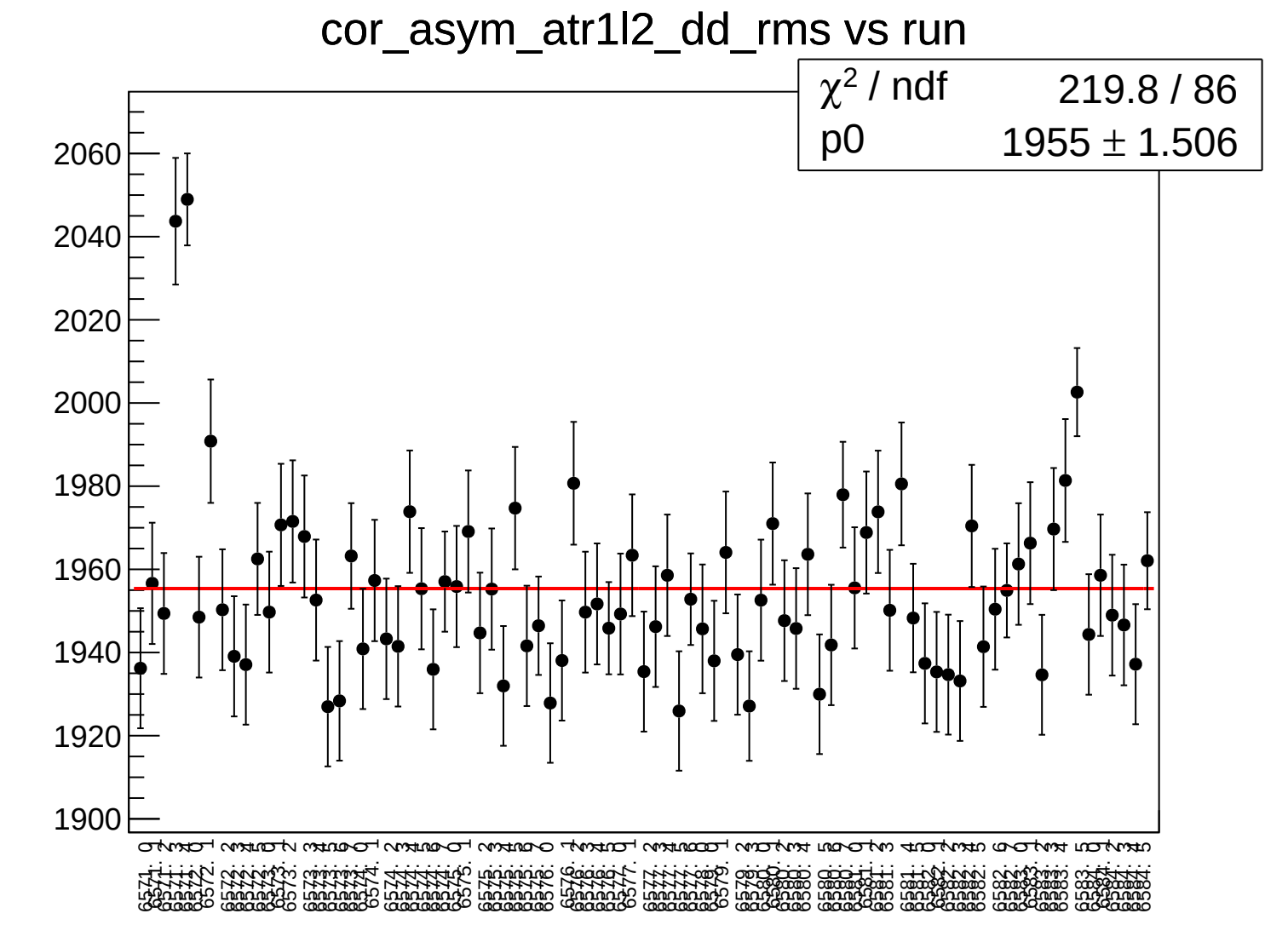

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.52 / 86
p0 −3003 ± 4242
150
100
50
0
−50
−100
pull
Entries 87
Mean −830.8
Std Dev 0
2
1
0
−1
−2

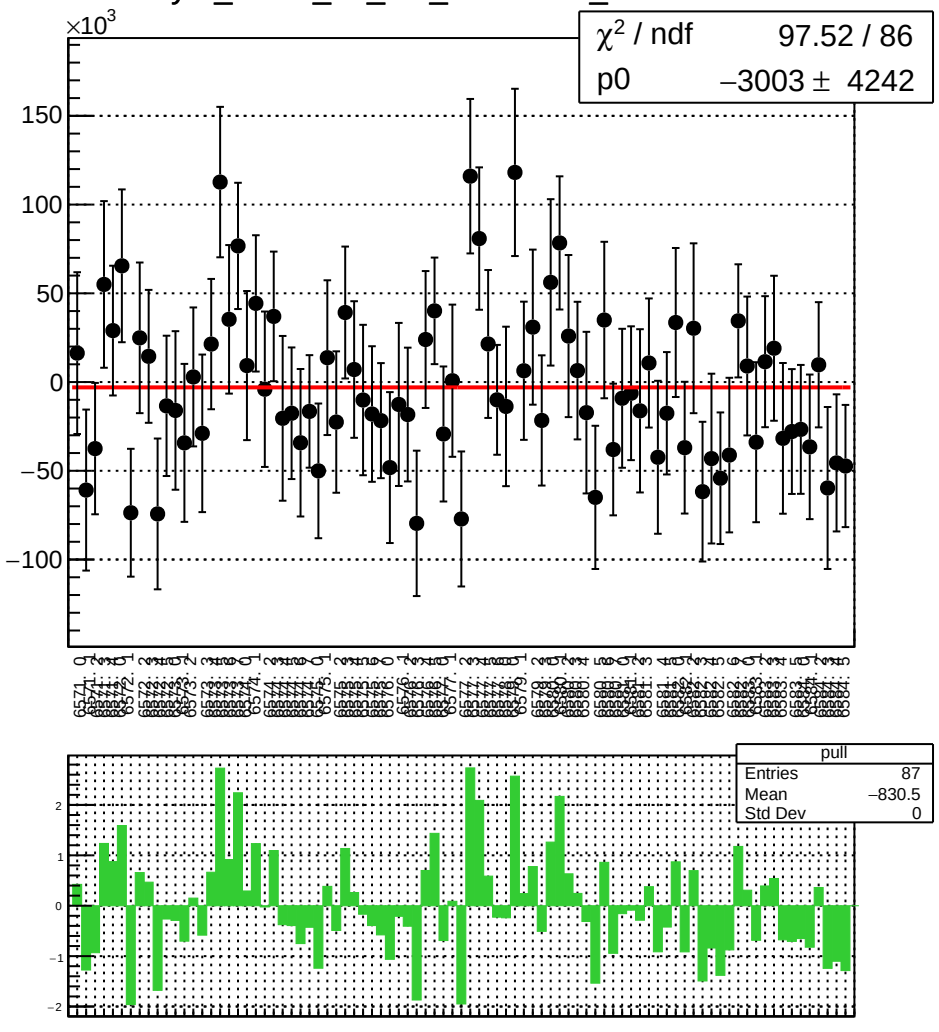

pull1D
Entries 87
Mean 0.00507
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

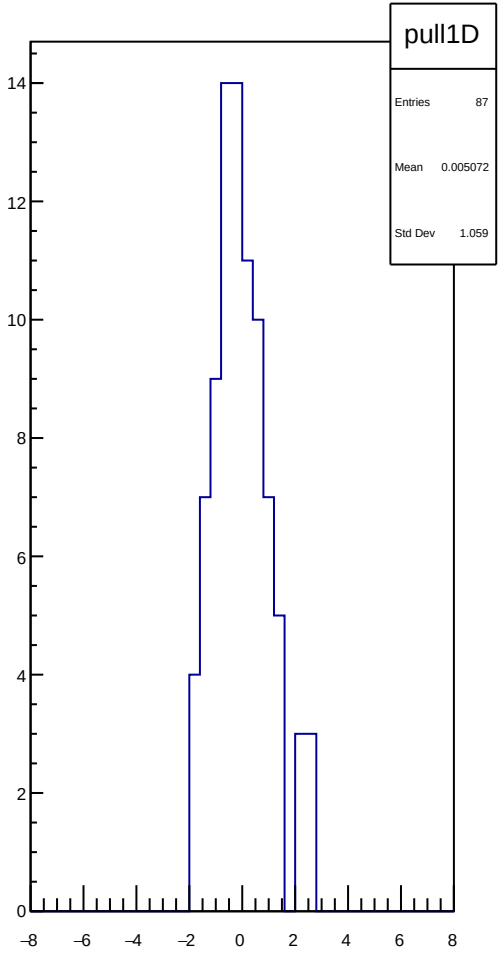

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.189e+04 / 86
p0 3882 ± 3
4800
4600
4400
4200
4000
3800
3600
3400
3200

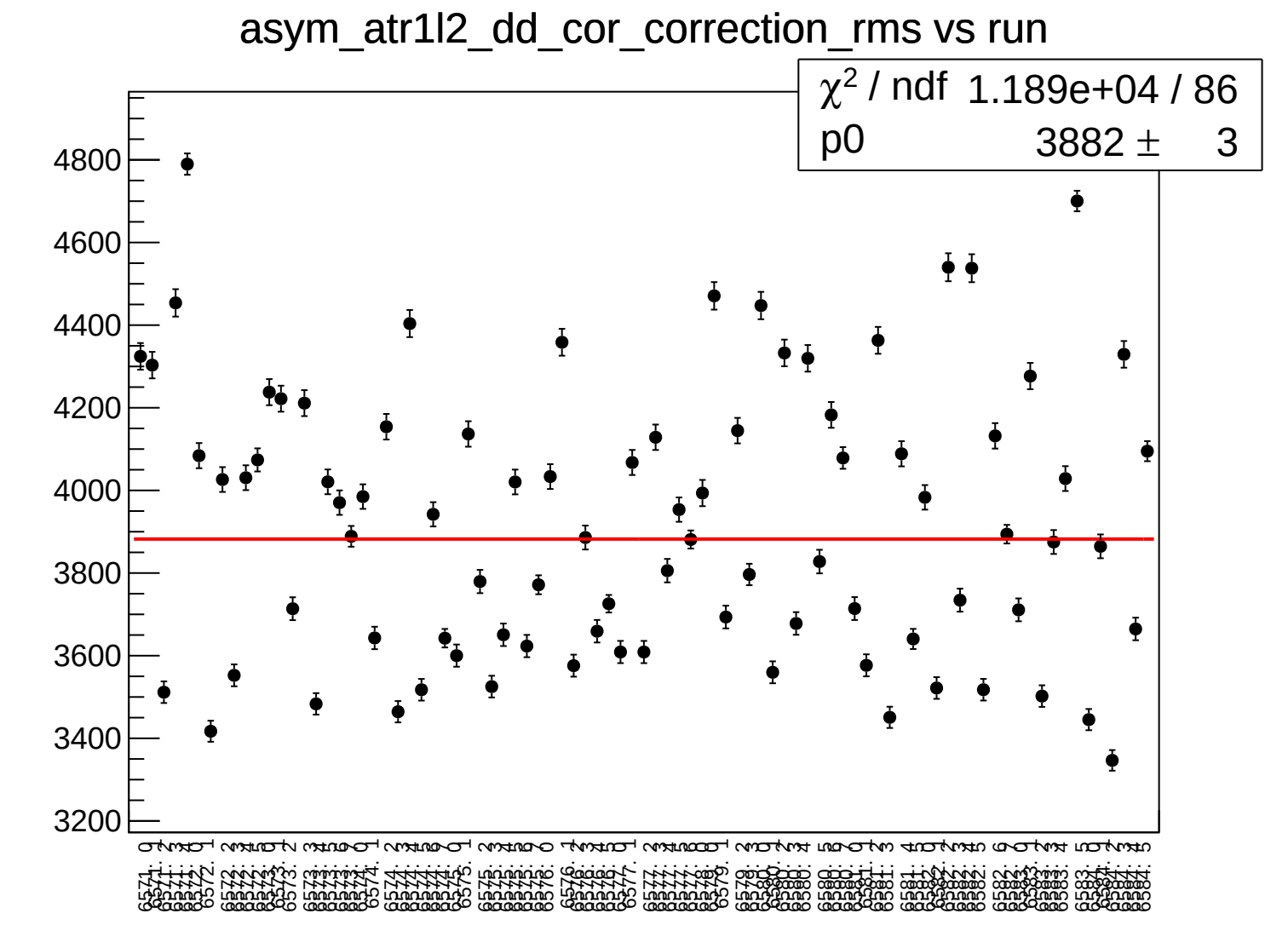

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 91.58 / 86
p0 −36.09 ± 2129
pull
Entries 87
Mean −753.6
Std Dev 0

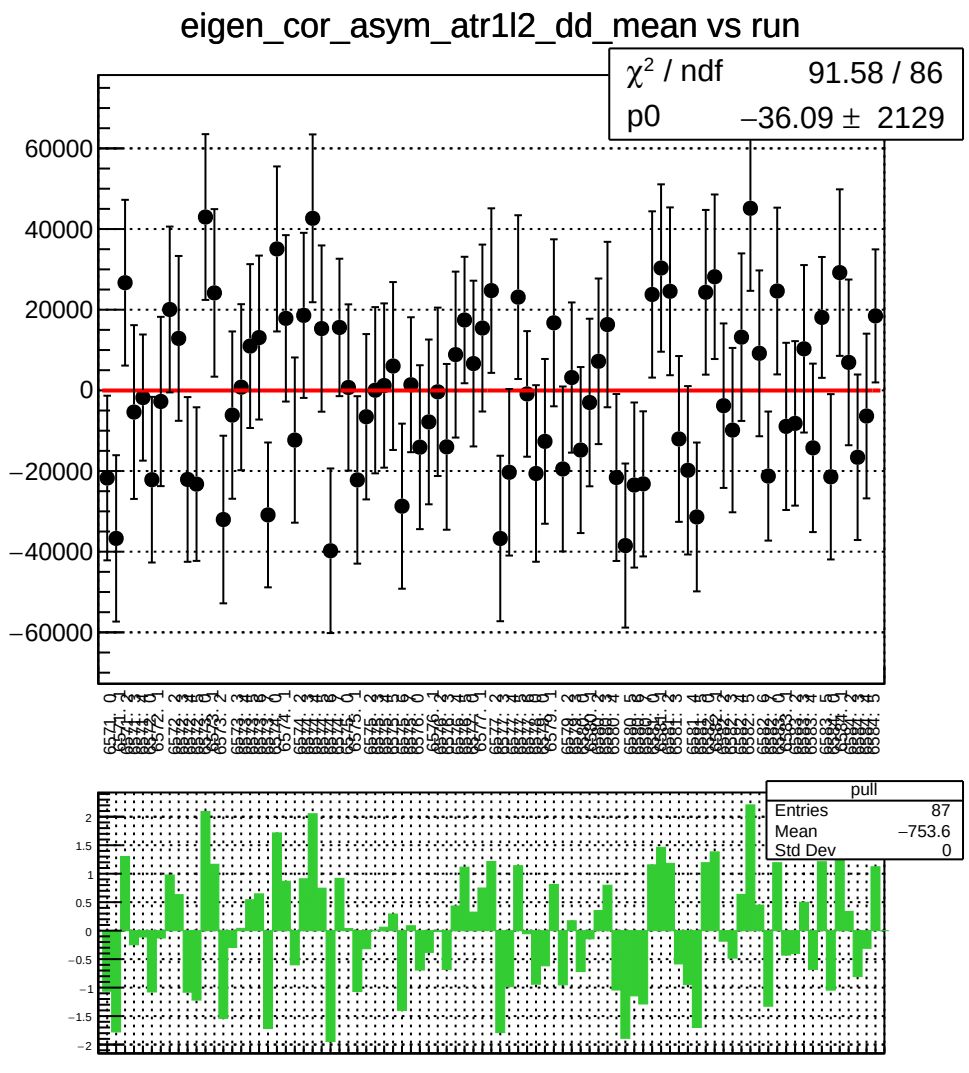

pull1D
Entries 87
Mean −0.001912
Std Dev 1.026

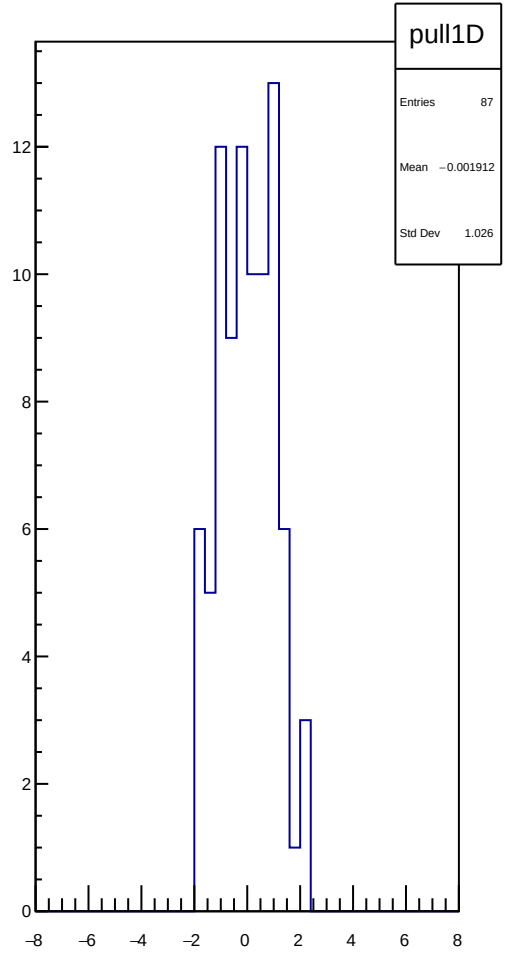

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 219.8 / 86
p0 1955 ± 1.506
2060
2040
2020
2000
1980
1960
1940
1920
1900

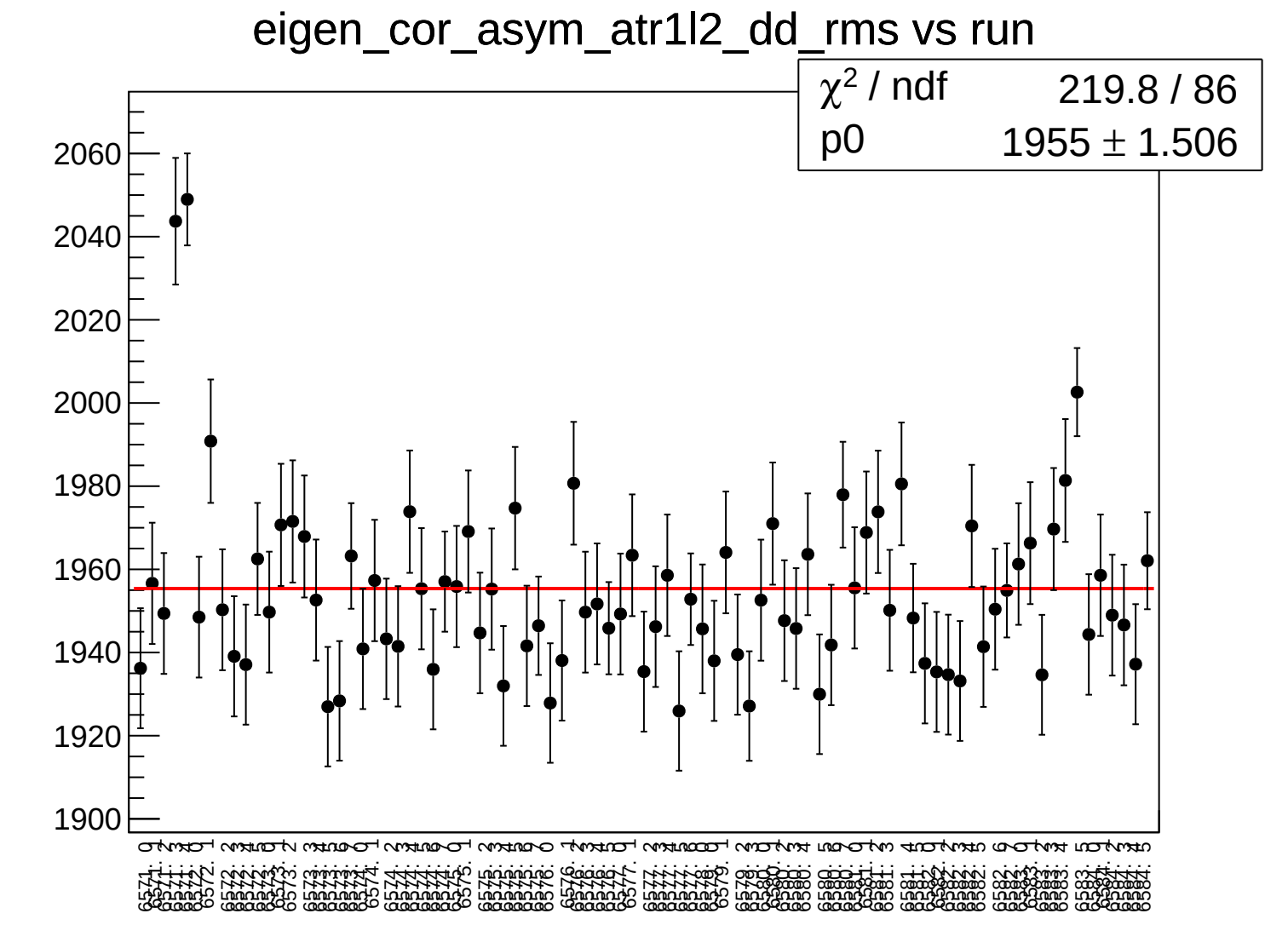

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.52 / 86
p0 −3003 ± 4242
150
100
50
0
−50
−100
pull
Entries 87
Mean −830.5
Std Dev 0
2
1
0
−1
−2

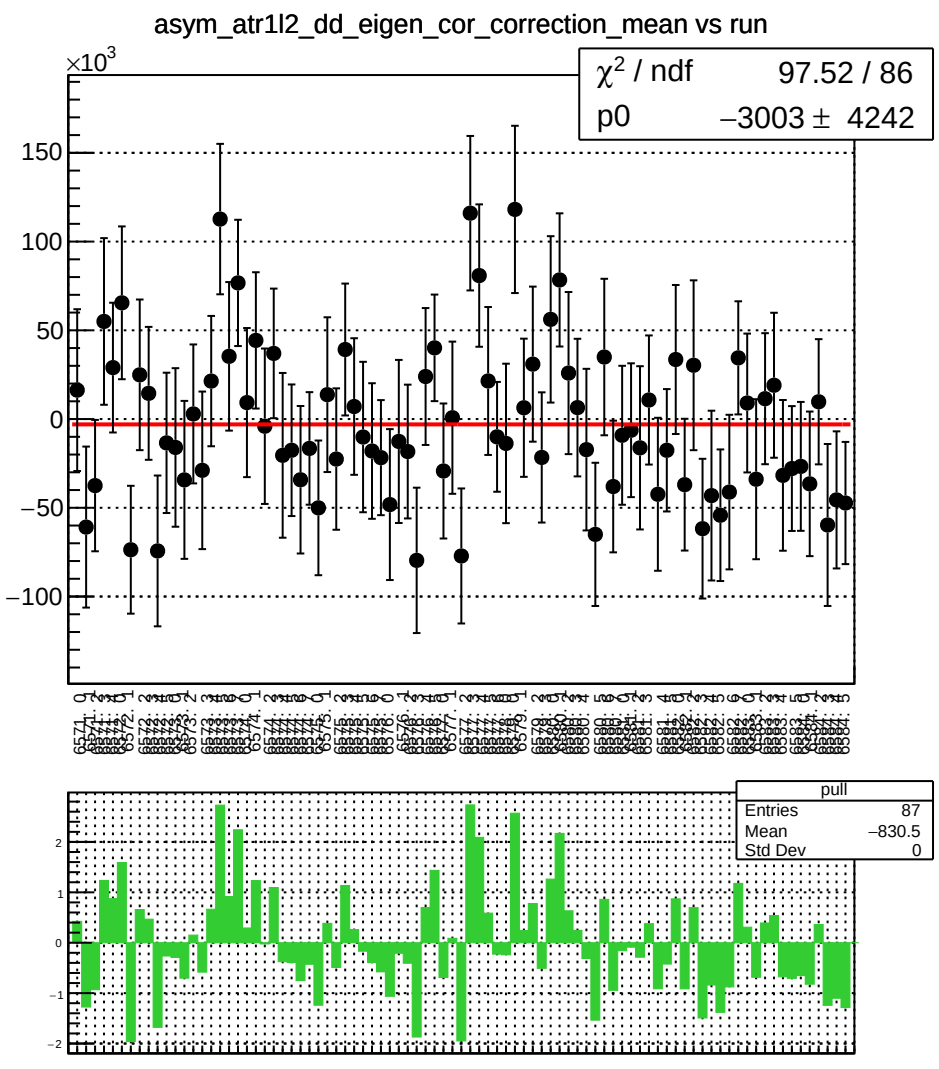

pull1D
Entries 87
Mean 0.005072
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

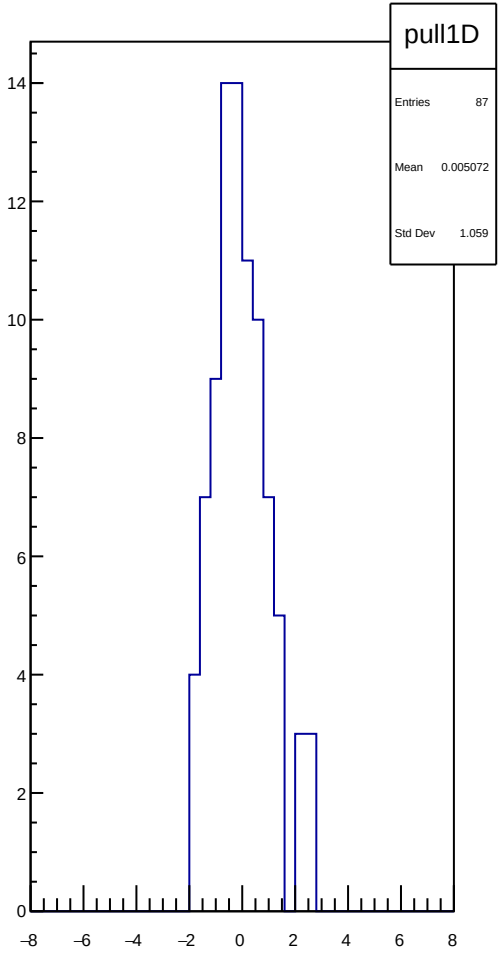

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.189e+04 / 86
p0 3882 ± 3
4800
4600
4400
4200
4000
3800
3600
3400
3200

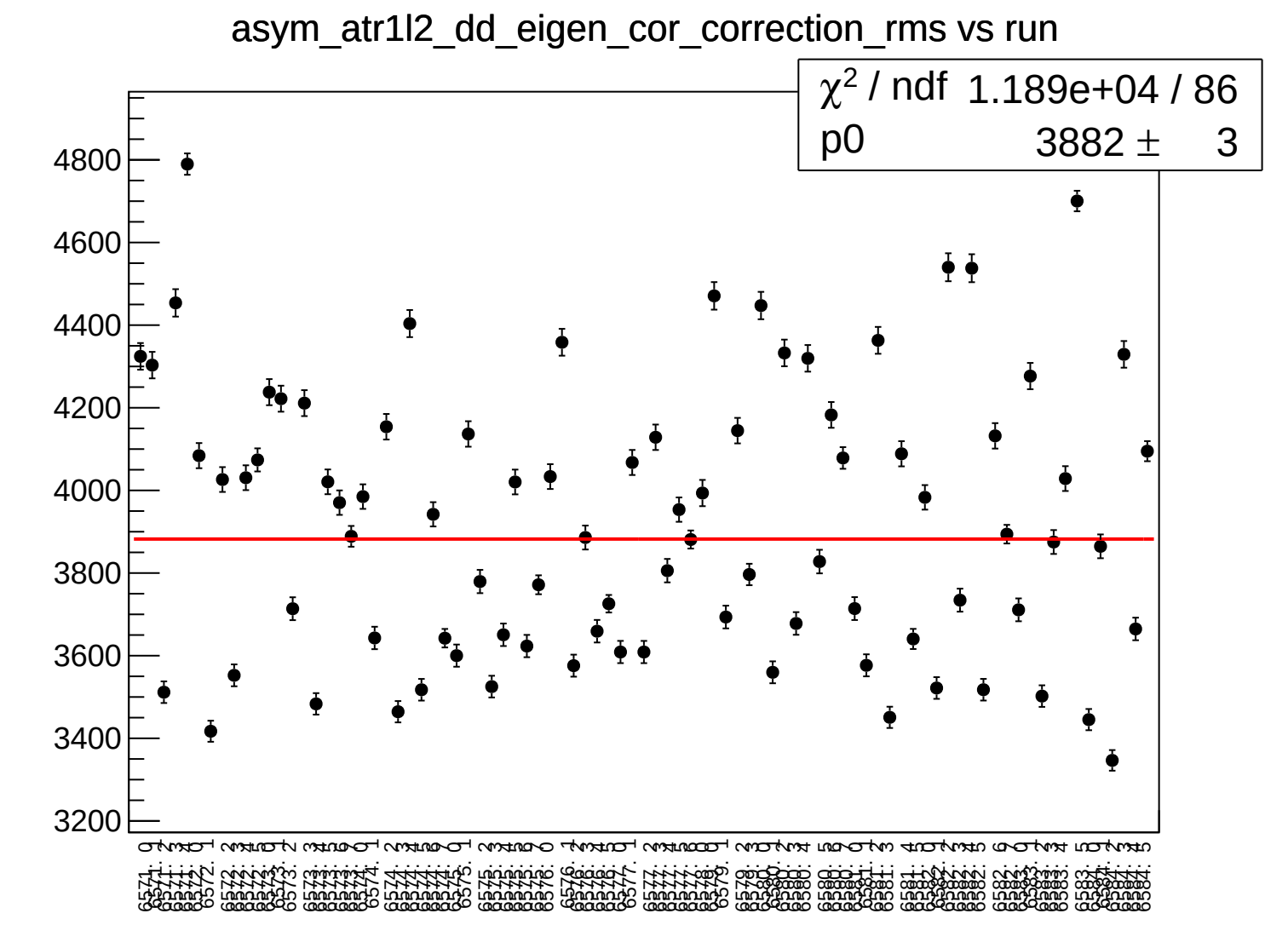

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 91.58 / 86
p0 −36.09 ± 2129
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −753.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

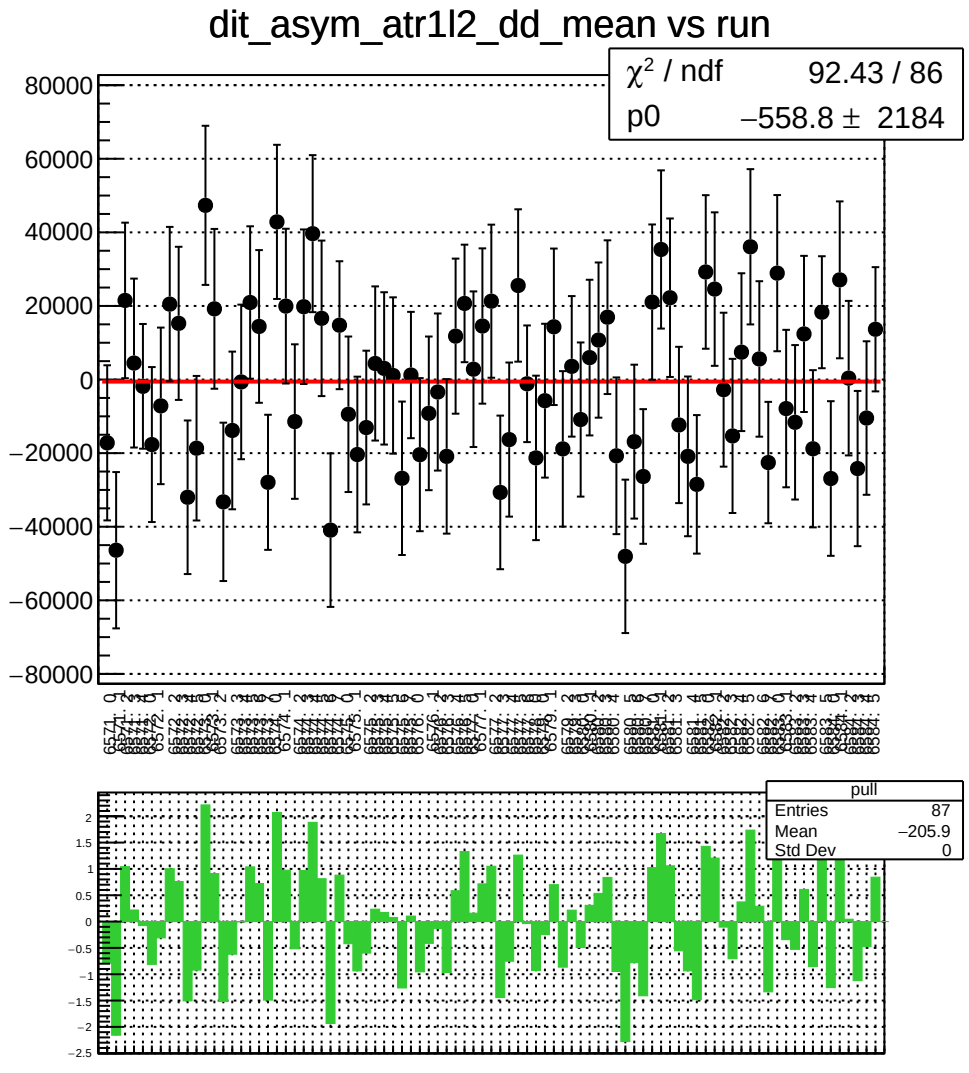

pull1D
Entries 87
Mean −0.001912
Std Dev 1.026
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

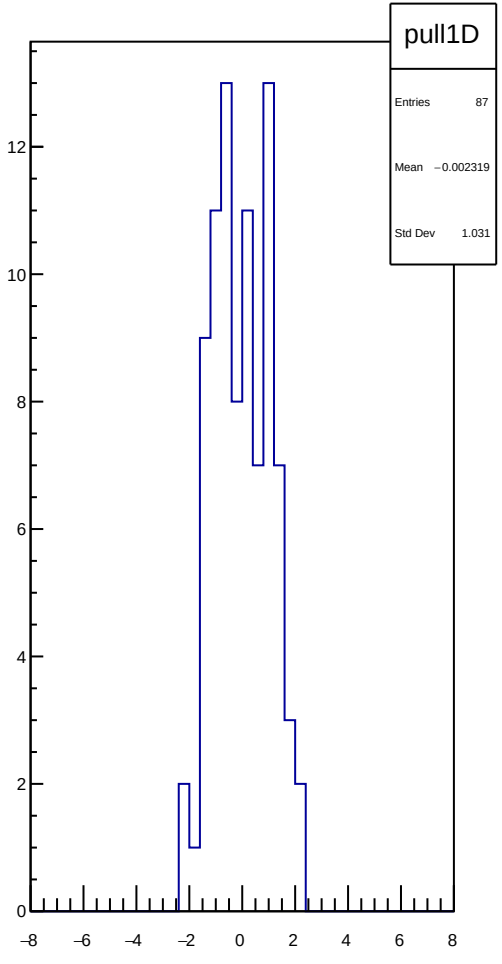

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 219.8 / 86
p0 1955 ± 1.506
2060
2040
2020
2000
1980
1960
1940
1920
1900

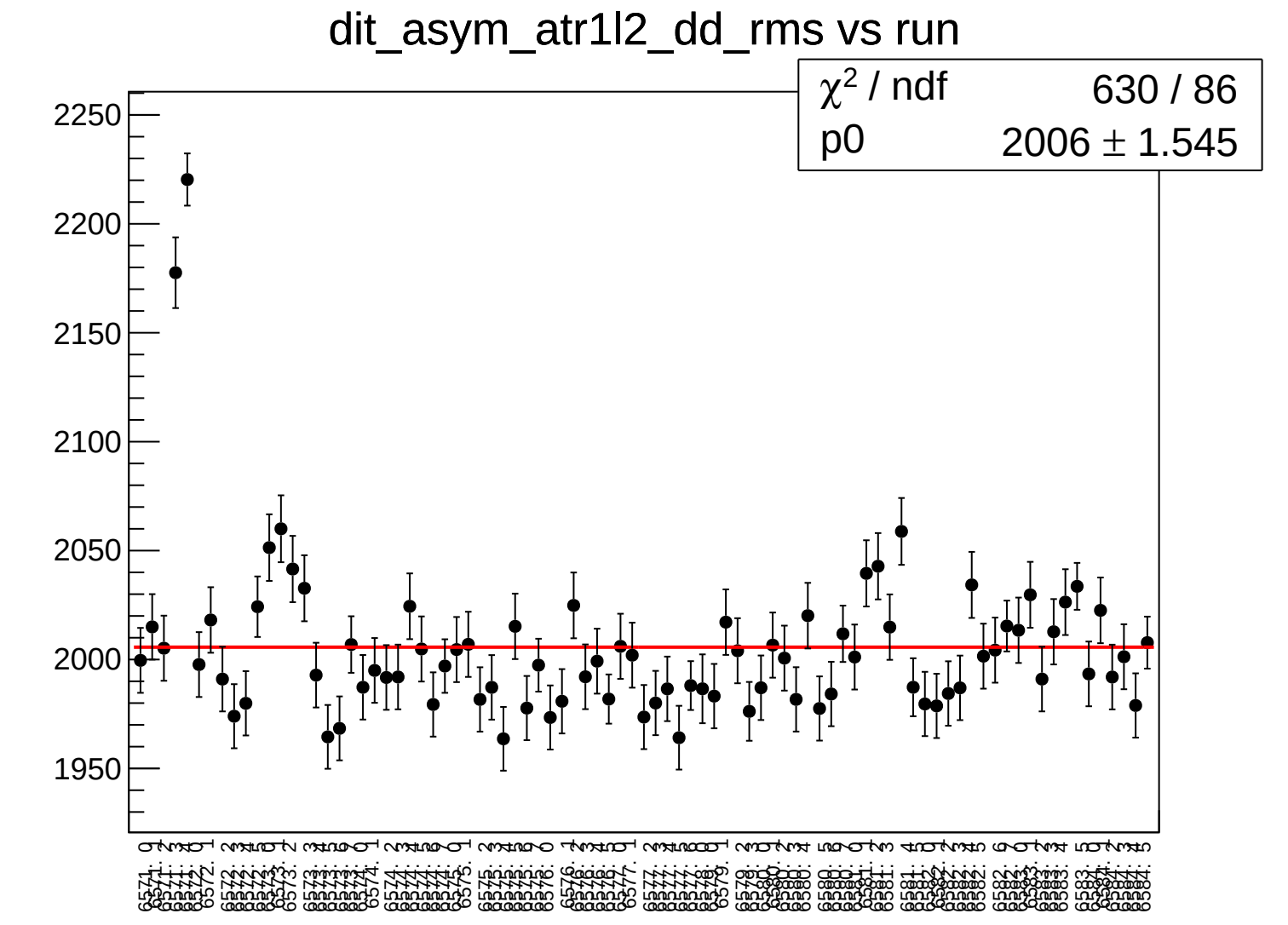

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.52 / 86
p0 −3003 ± 4242
pull
Entries 87
Mean −830.5
Std Dev 0

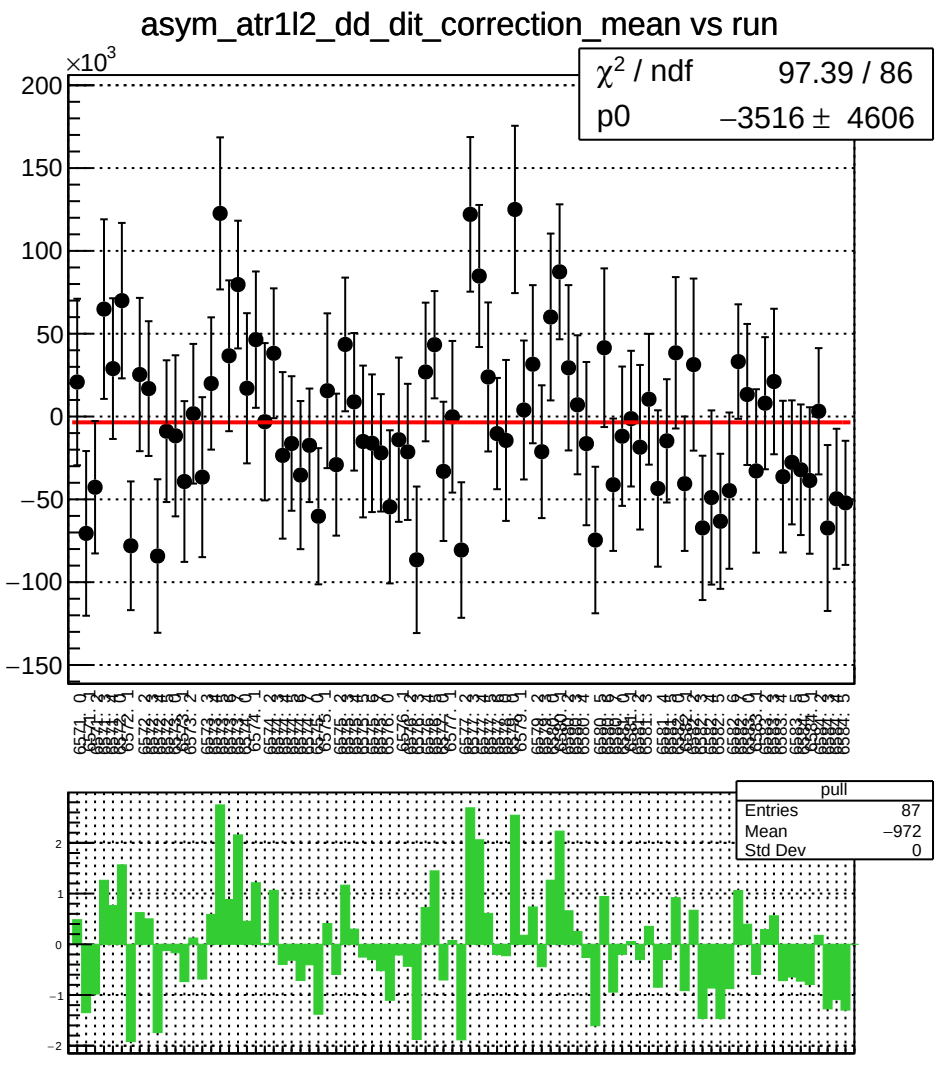

pull1D
Entries 87
Mean 0.005072
Std Dev 1.059

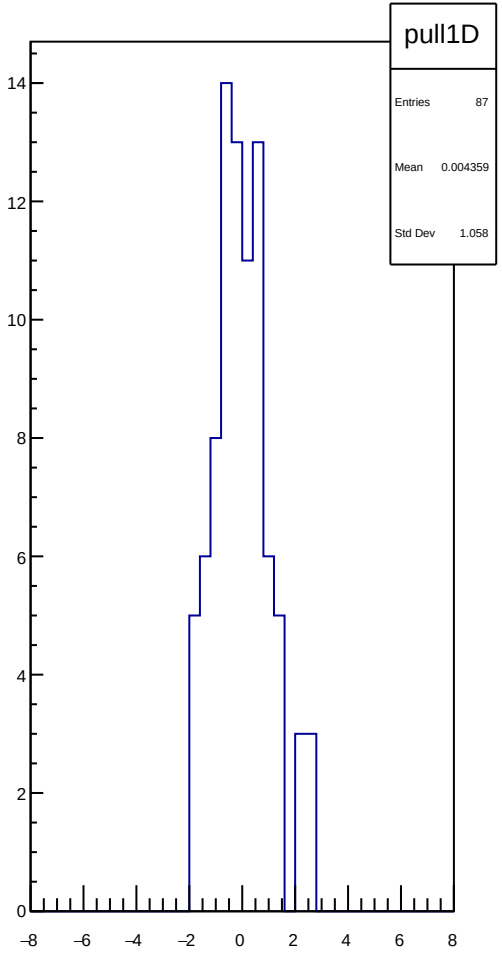

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.189e+04 / 86
p0 3882 ± 3
4800
4600
4400
4200
4000
3800
3600
3400
3200

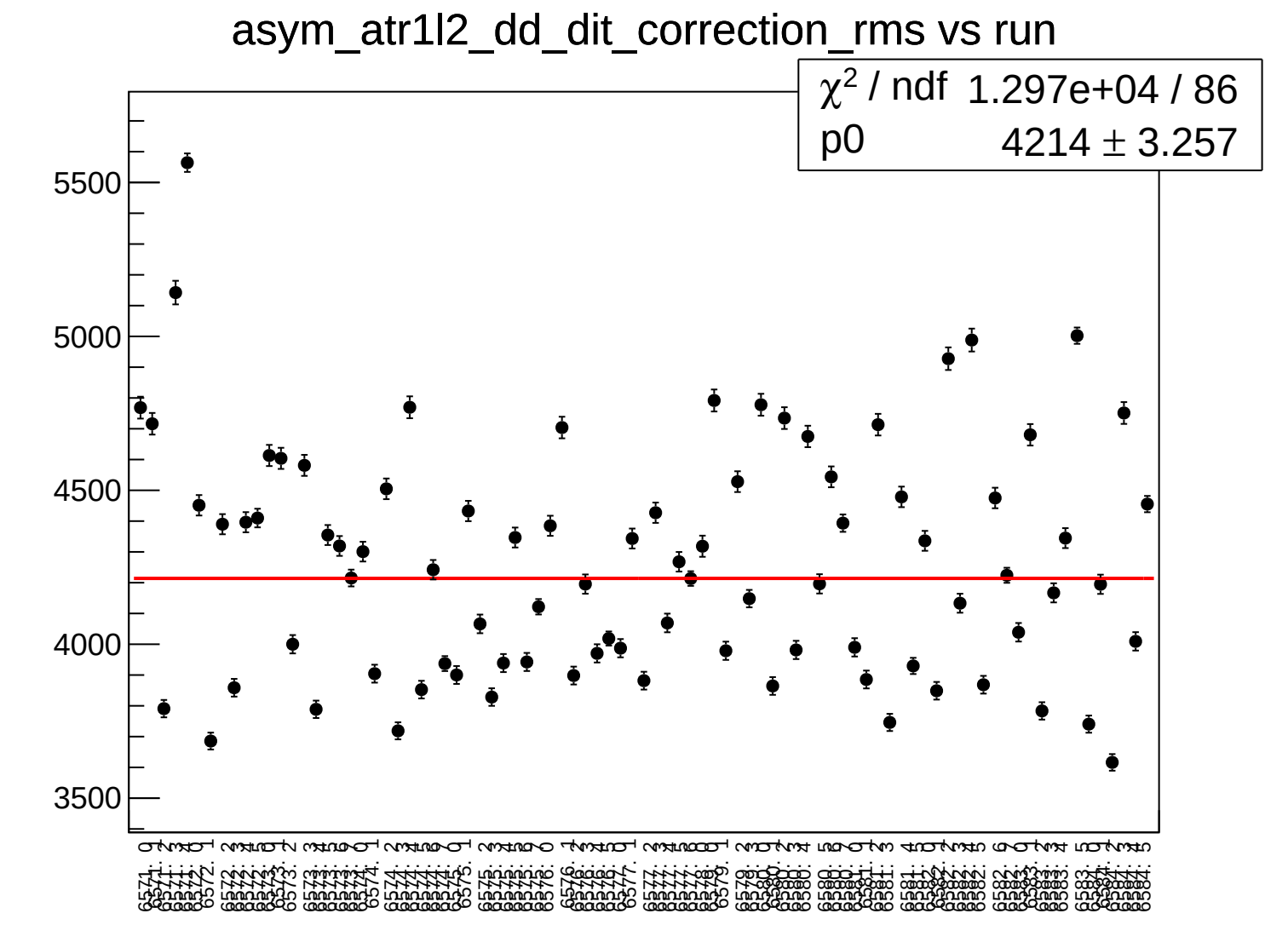

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 92.43 / 86
p0 −558.8 ± 2184
pull
Entries 87
Mean −205.9
Std Dev 0

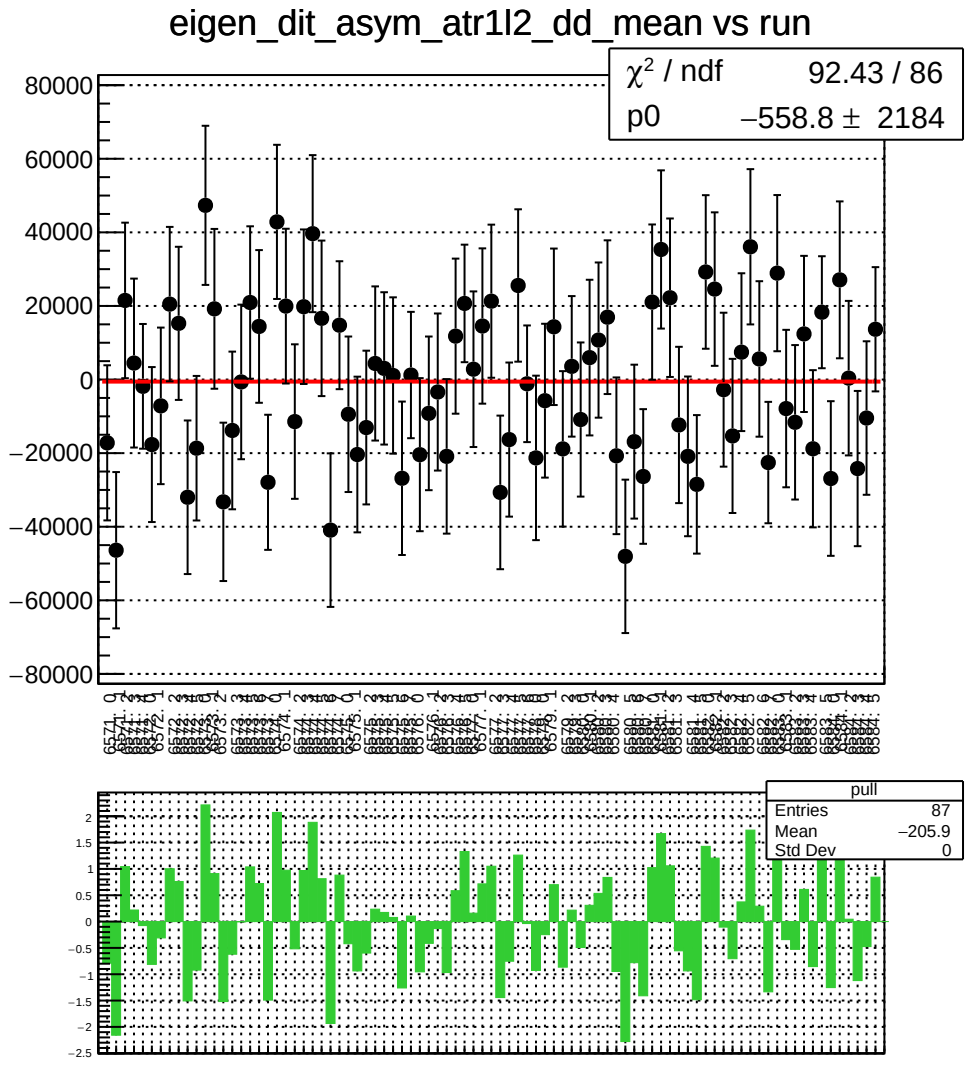

pull1D
Entries 87
Mean −0.002319
Std Dev 1.031

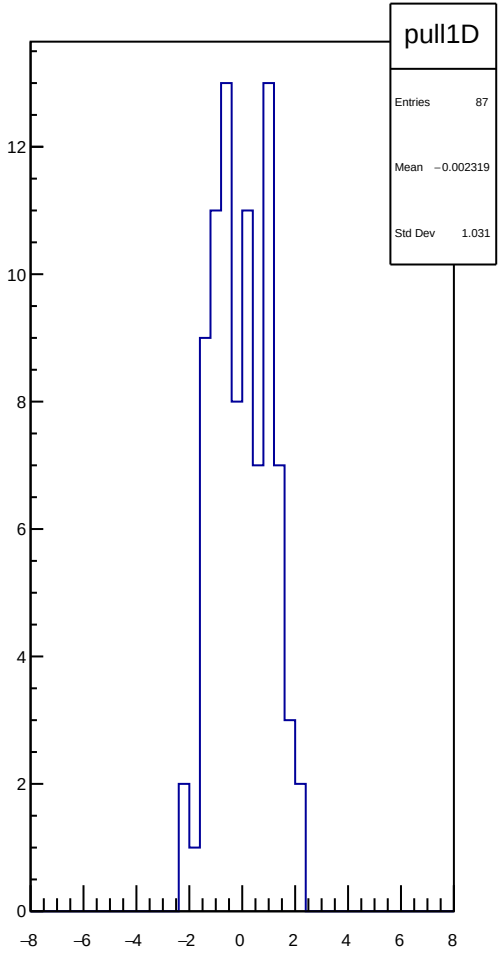

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 630 / 86
p0 2006 ± 1.545
2250
2200
2150
2100
2050
2000
1950

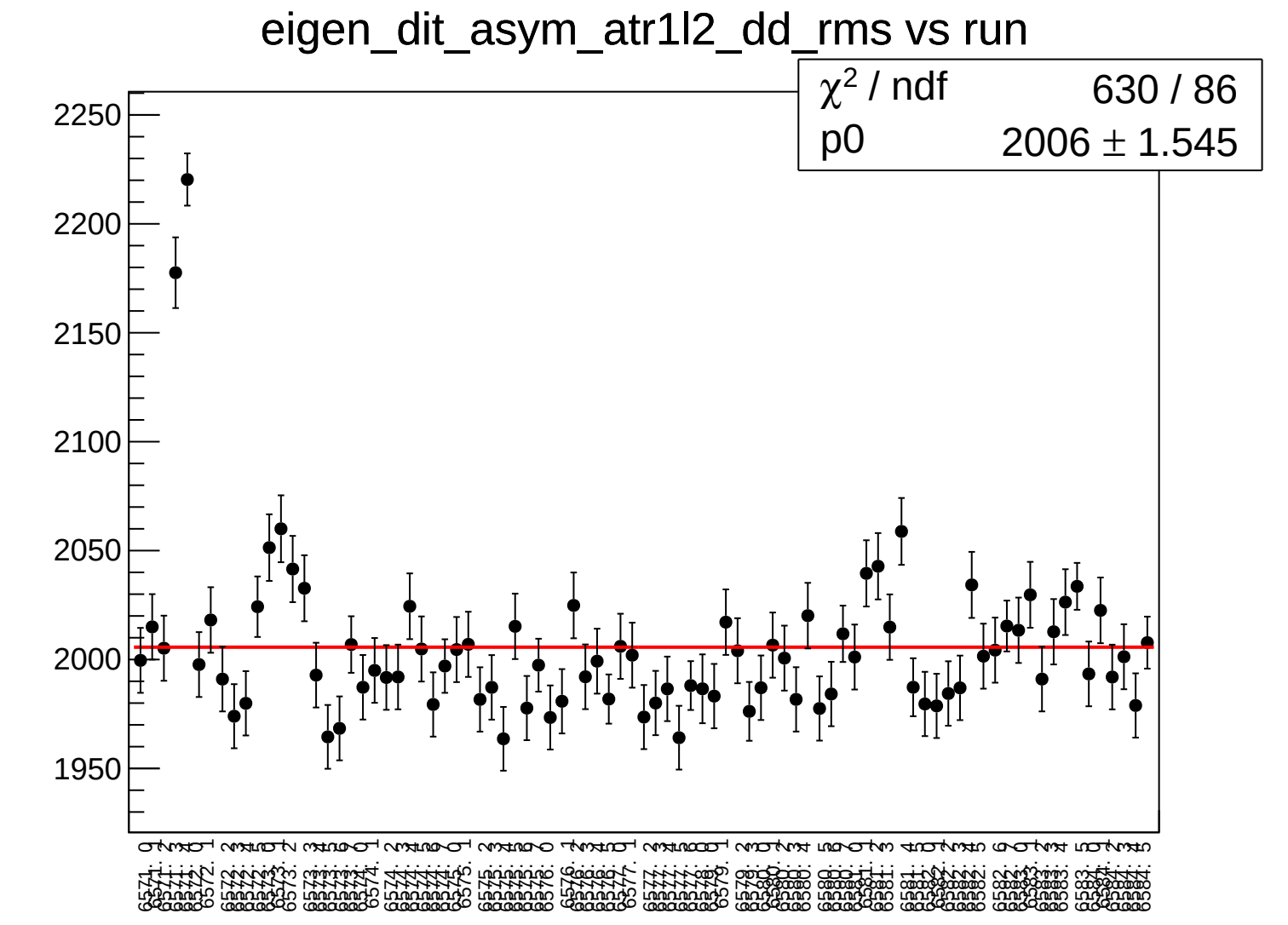

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.39 / 86
p0 −3516 ± 4606
pull
Entries 87
Mean −972
Std Dev 0

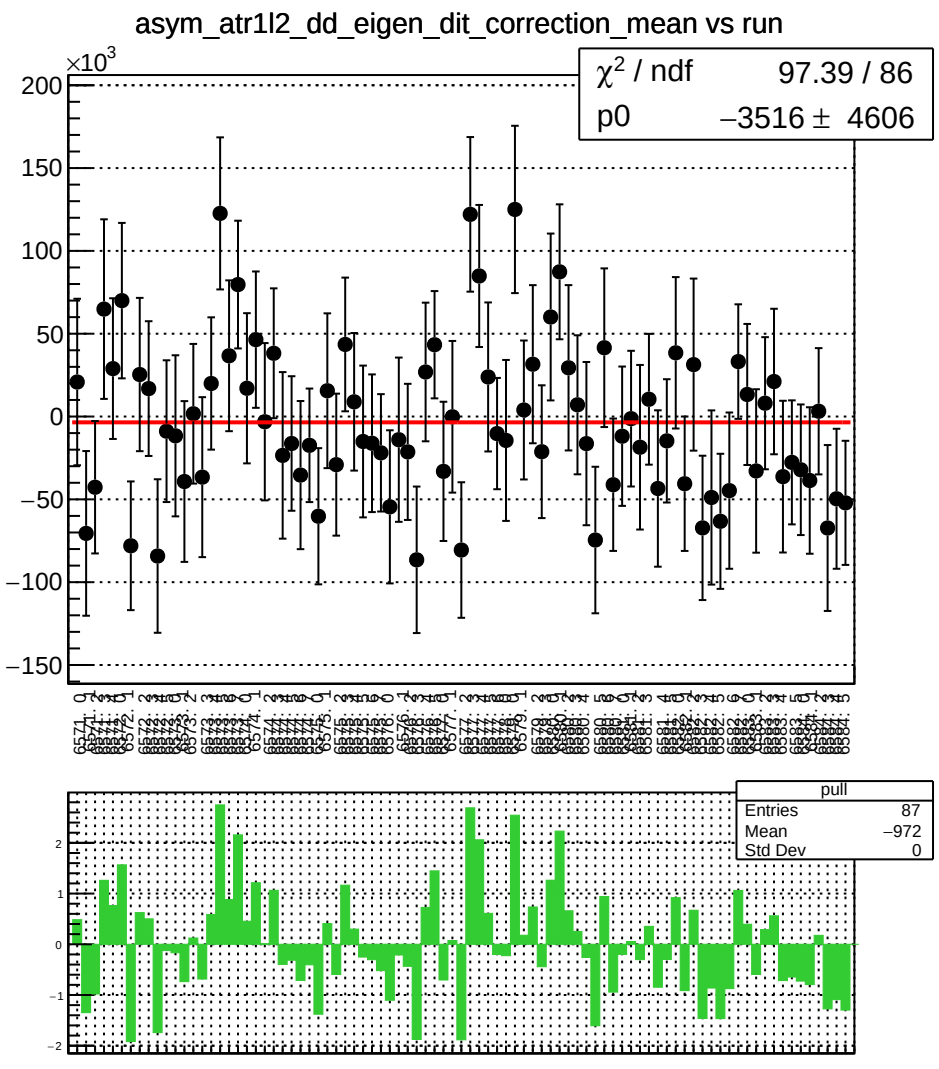

pull1D
Entries 87
Mean 0.004359
Std Dev 1.058

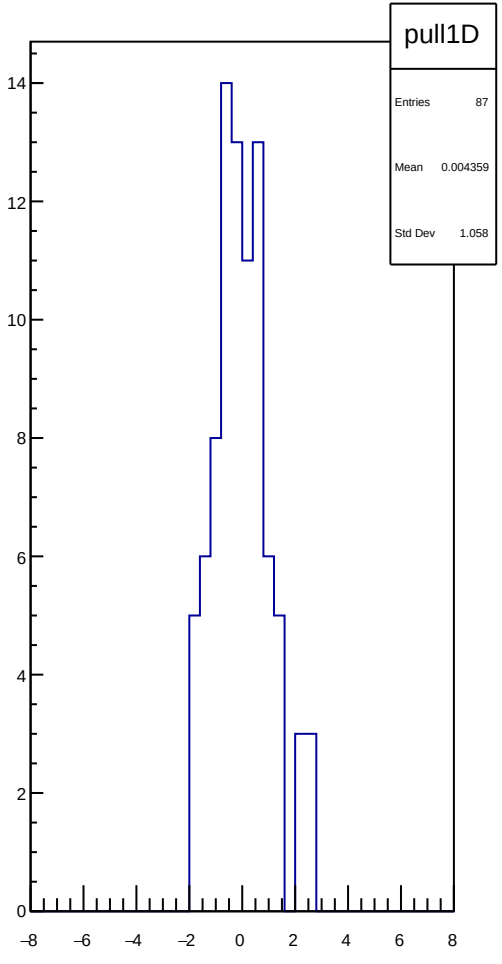

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.297e+04 / 86
p0 4214 ± 3.257
5500
5000
4500
4000
3500

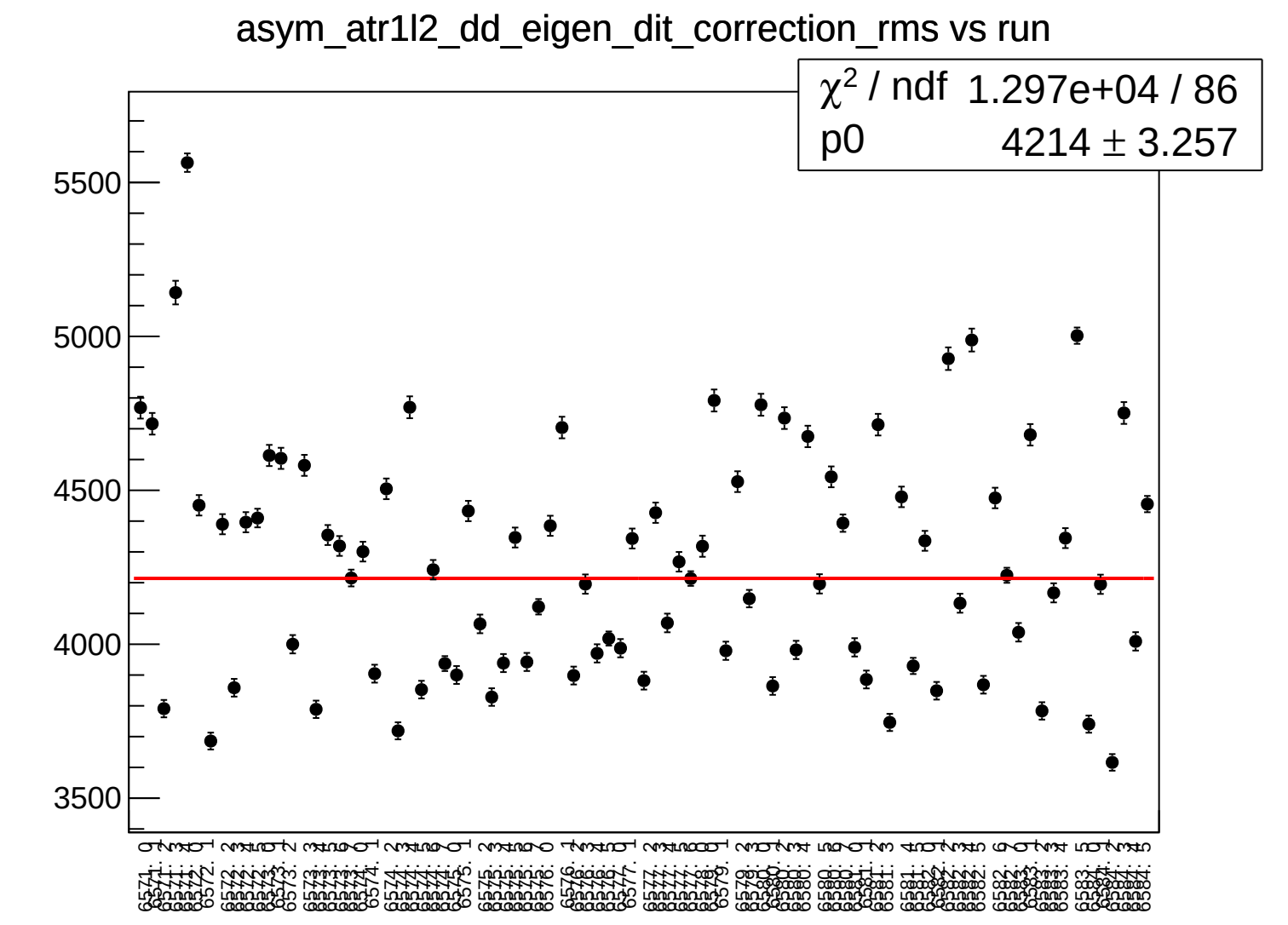

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 92.43 / 86
p0 −558.8 ± 2184
pull
Entries 87
Mean −205.9
Std Dev 0

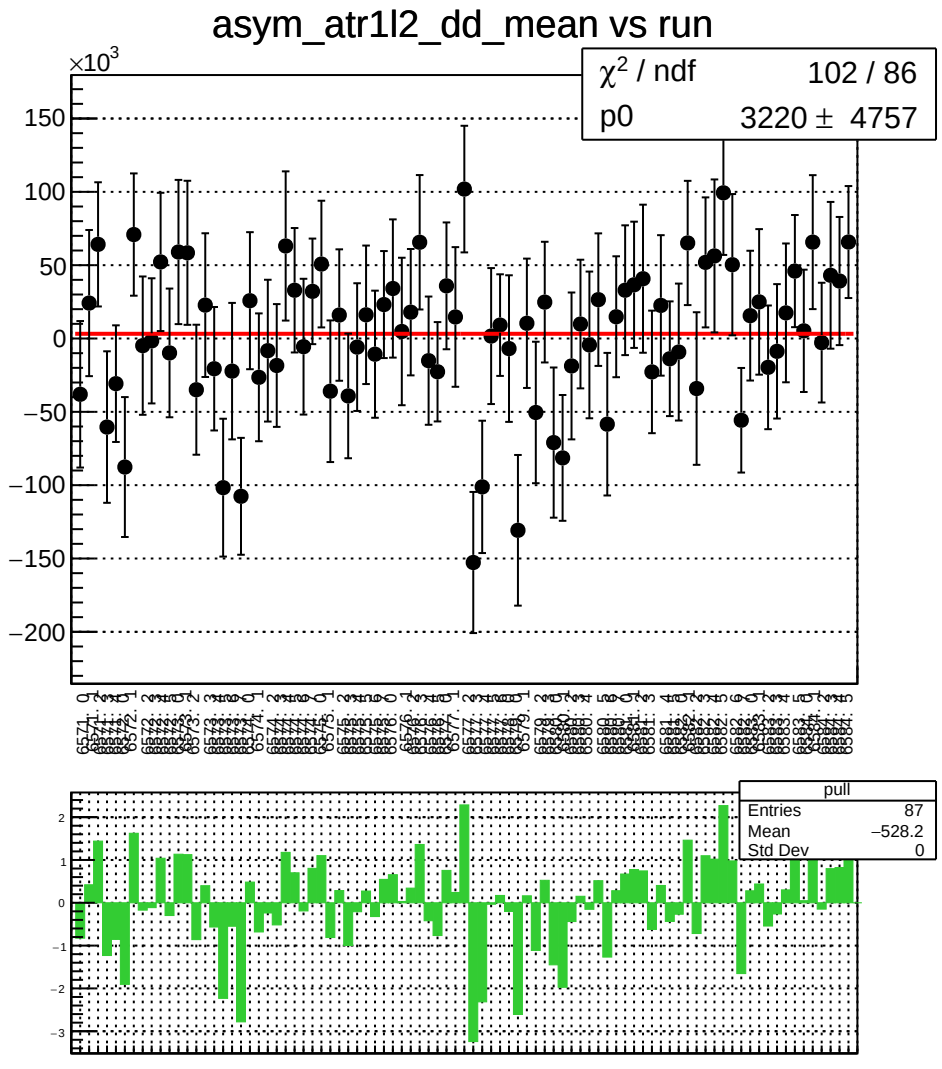

pull1D
Entries 87
Mean −0.002319
Std Dev 1.031

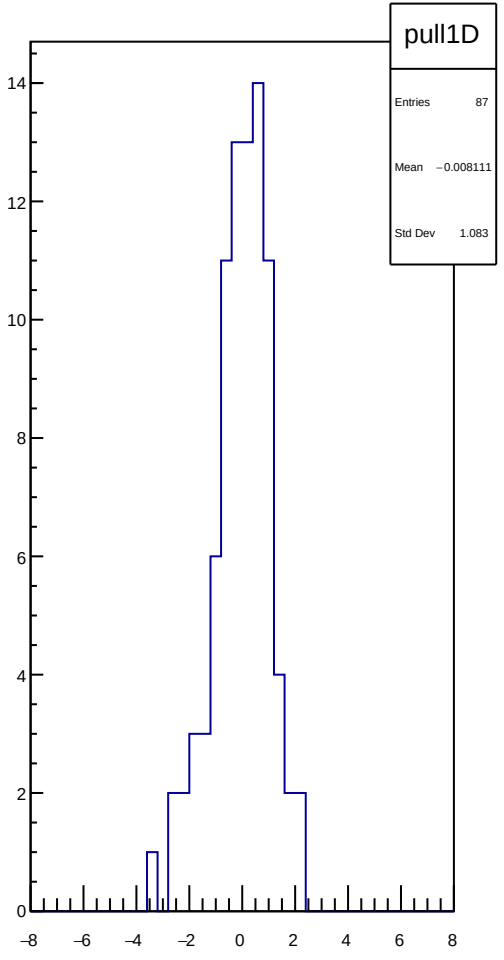

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 630 / 86
p0 2006 ± 1.545
2250
2200
2150
2100
2050
2000
1950

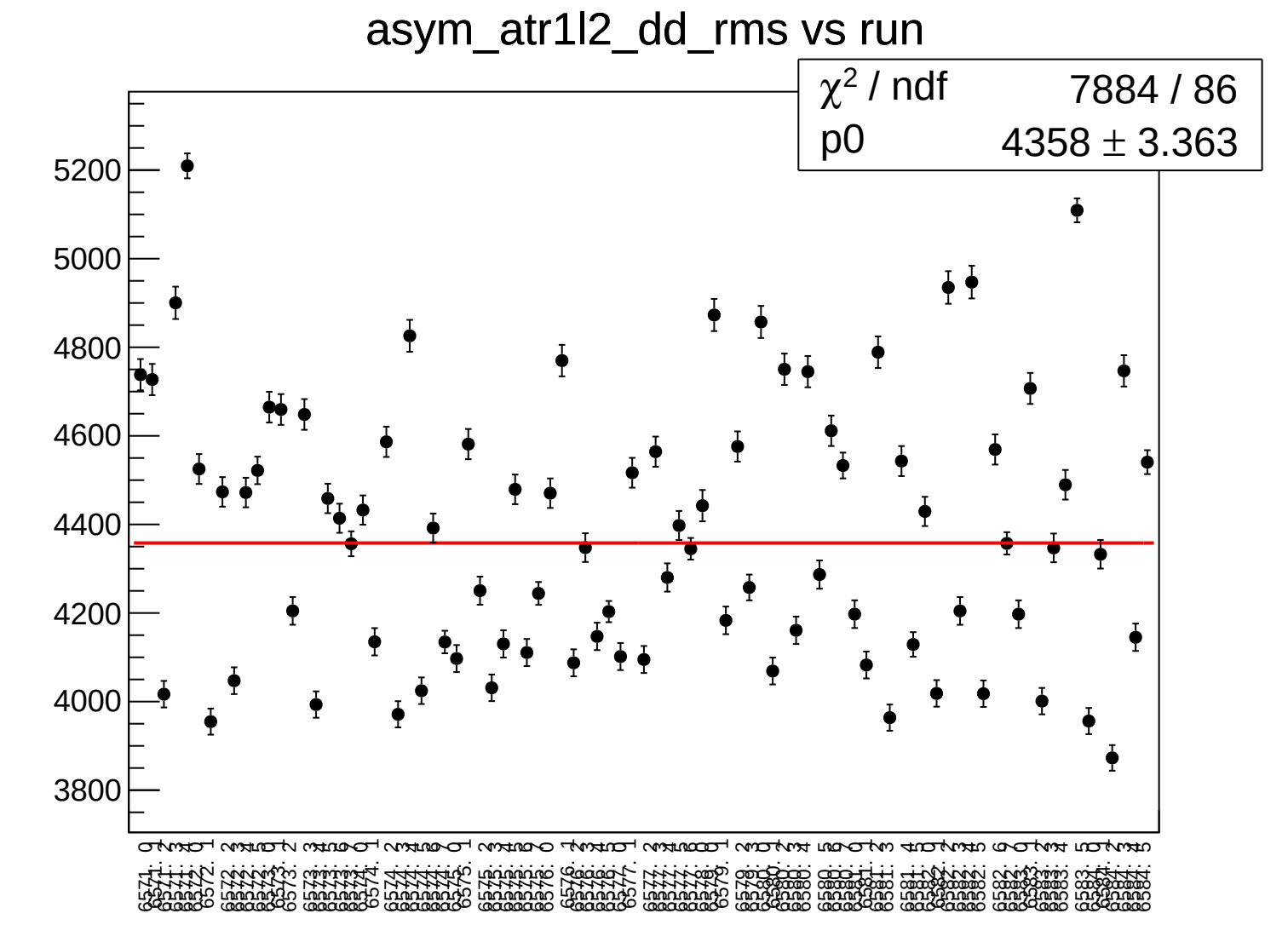

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.39 / 86
p0 −3516 ± 4606
pull
Entries 87
Mean −972
Std Dev 0

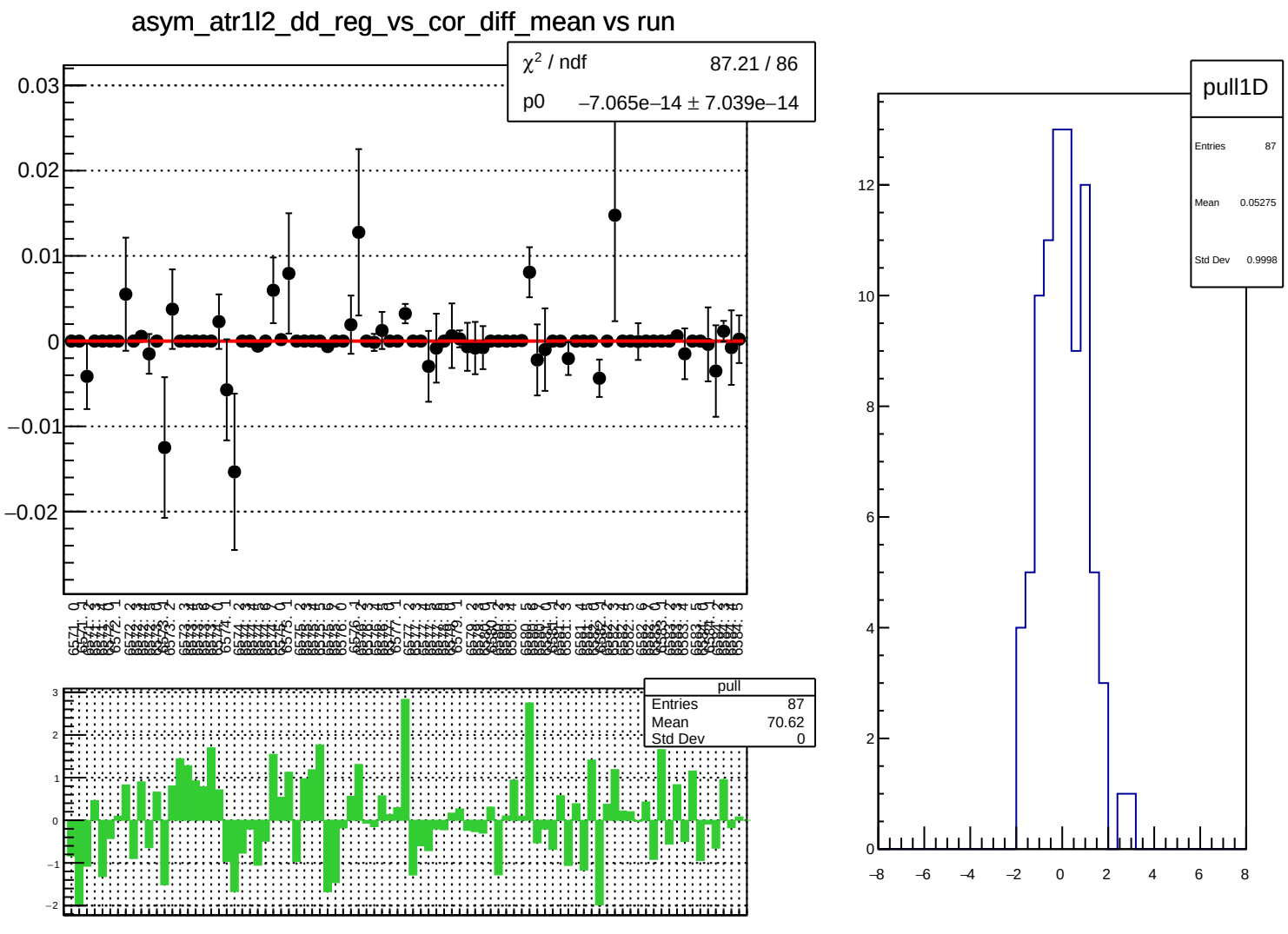

pull1D
Entries 87
Mean 0.004359
Std Dev 1.058

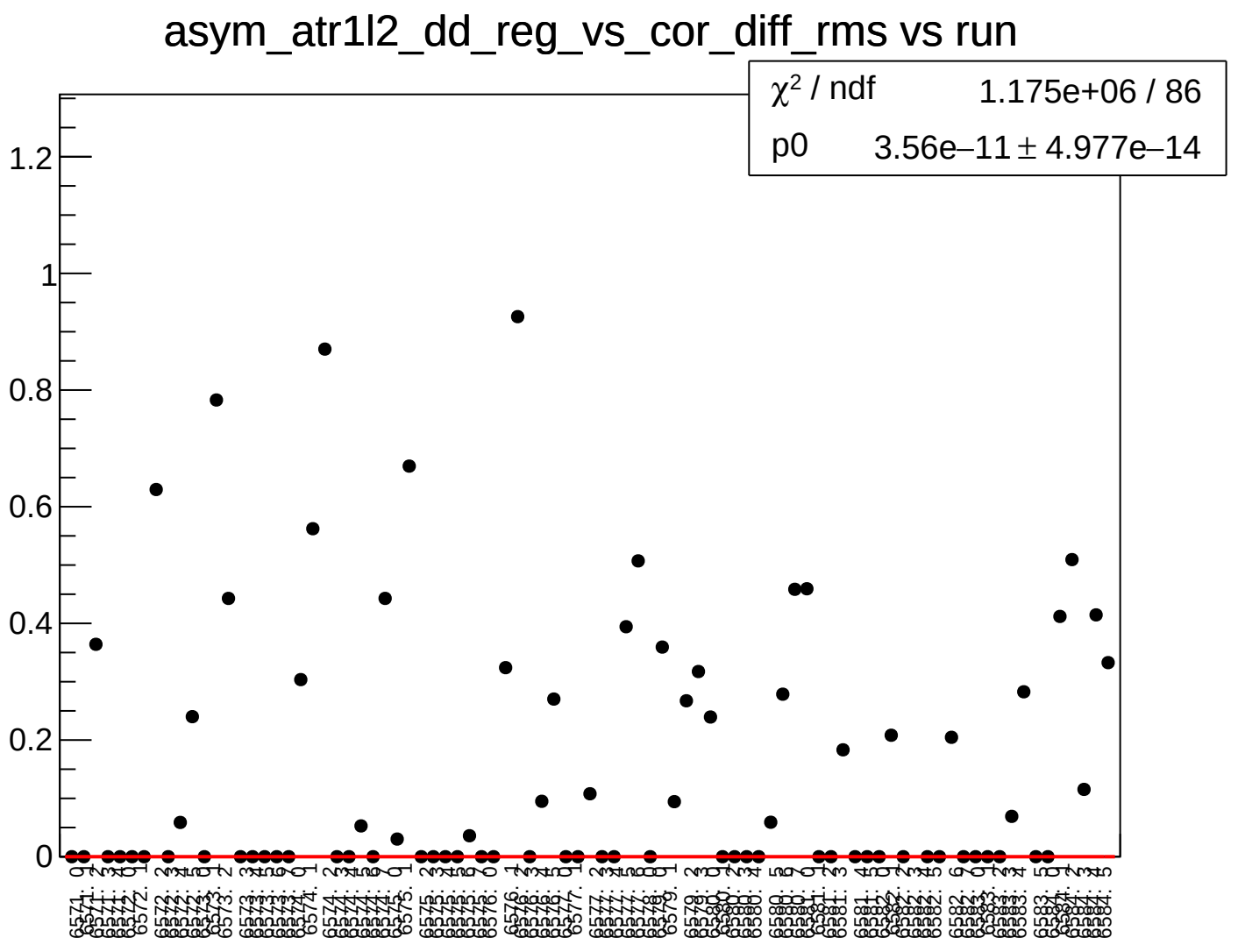

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.297e+04 / 86
p0 4214 ± 3.257
5500
5000
4500
4000
3500

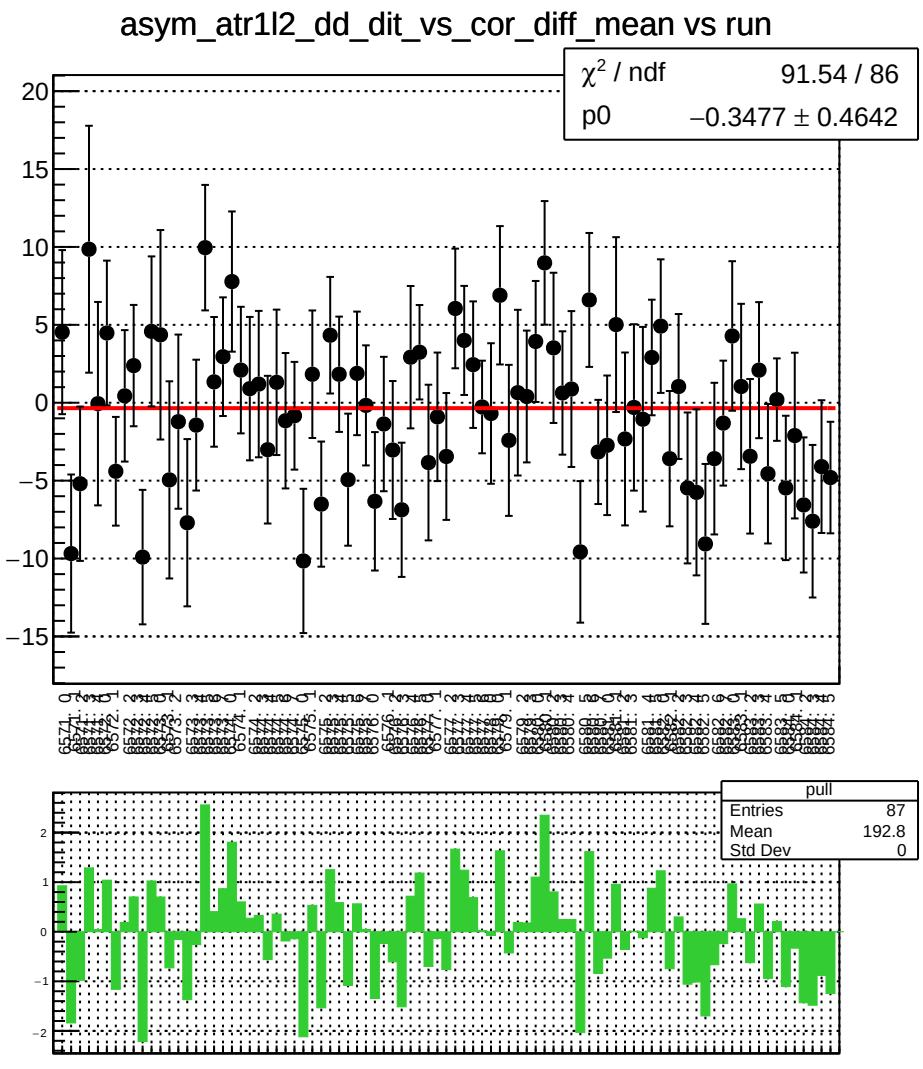

asym_atr1l2_dd_mean vs run
χ² / ndf 102 / 86
p0 3220 ± 4757
pull
Entries 87
Mean −528.2
Std Dev 0

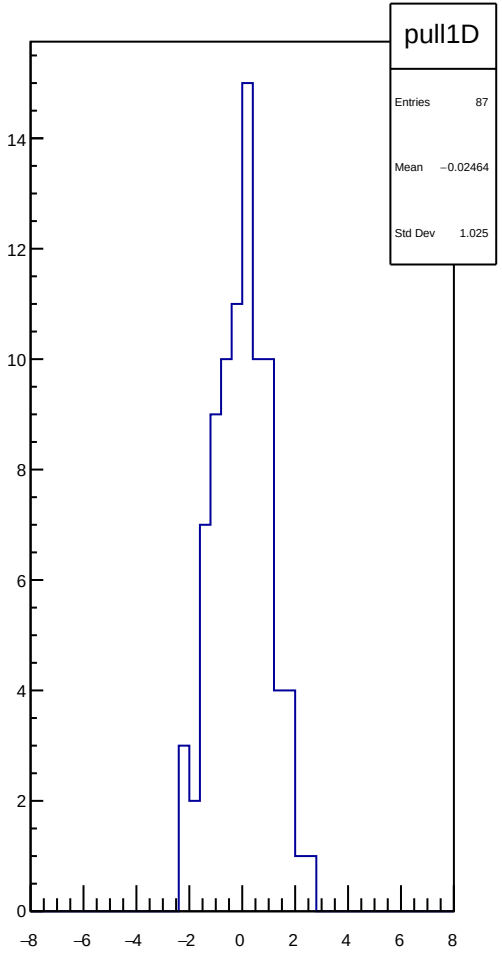

pull1D
Entries 87
Mean −0.008111
Std Dev 1.083

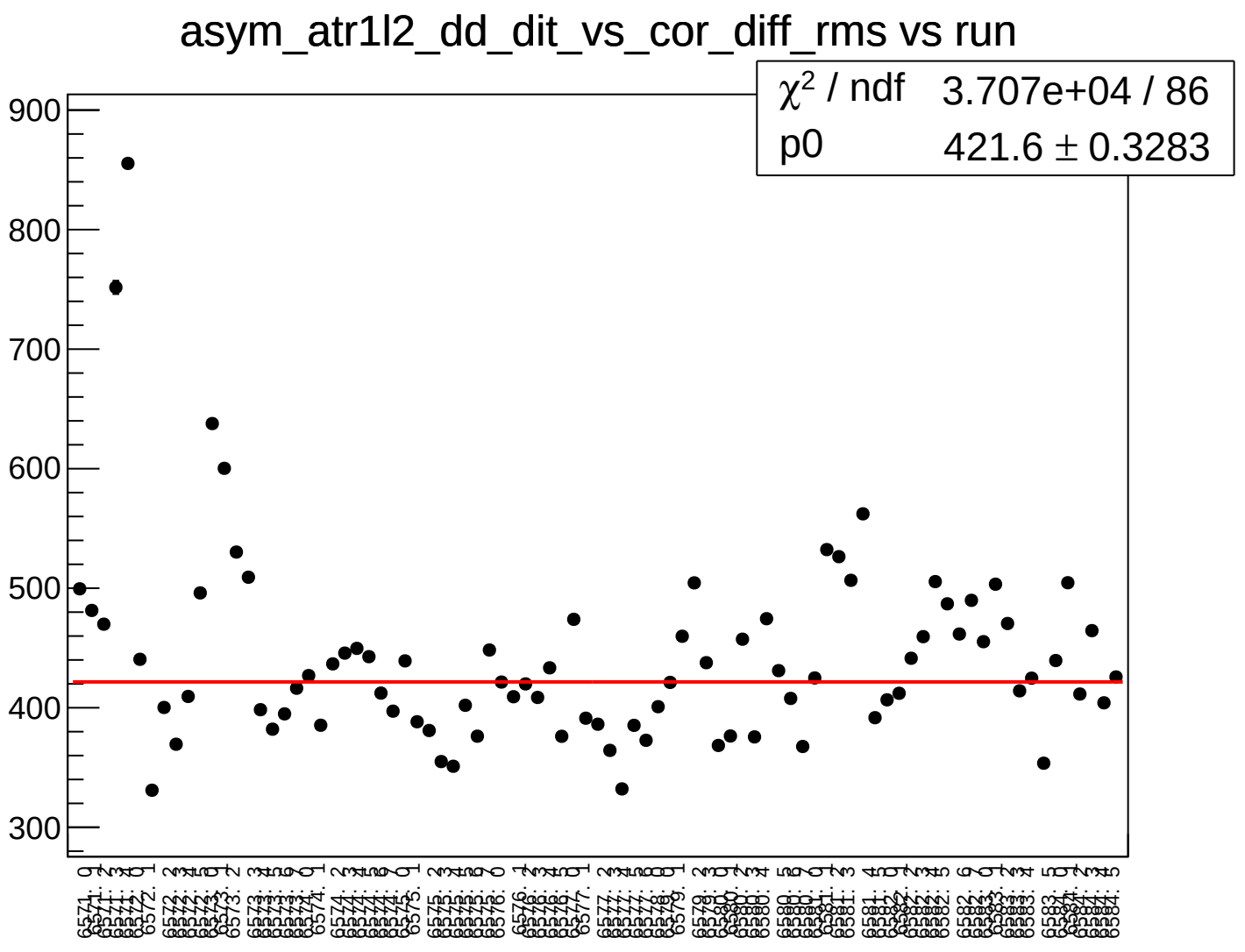

asym_atr1l2_dd_rms vs run
χ^2 / ndf 7884 / 86
p0 4358 ± 3.363
5200
5000
4800
4600
4400
4200
4000
3800

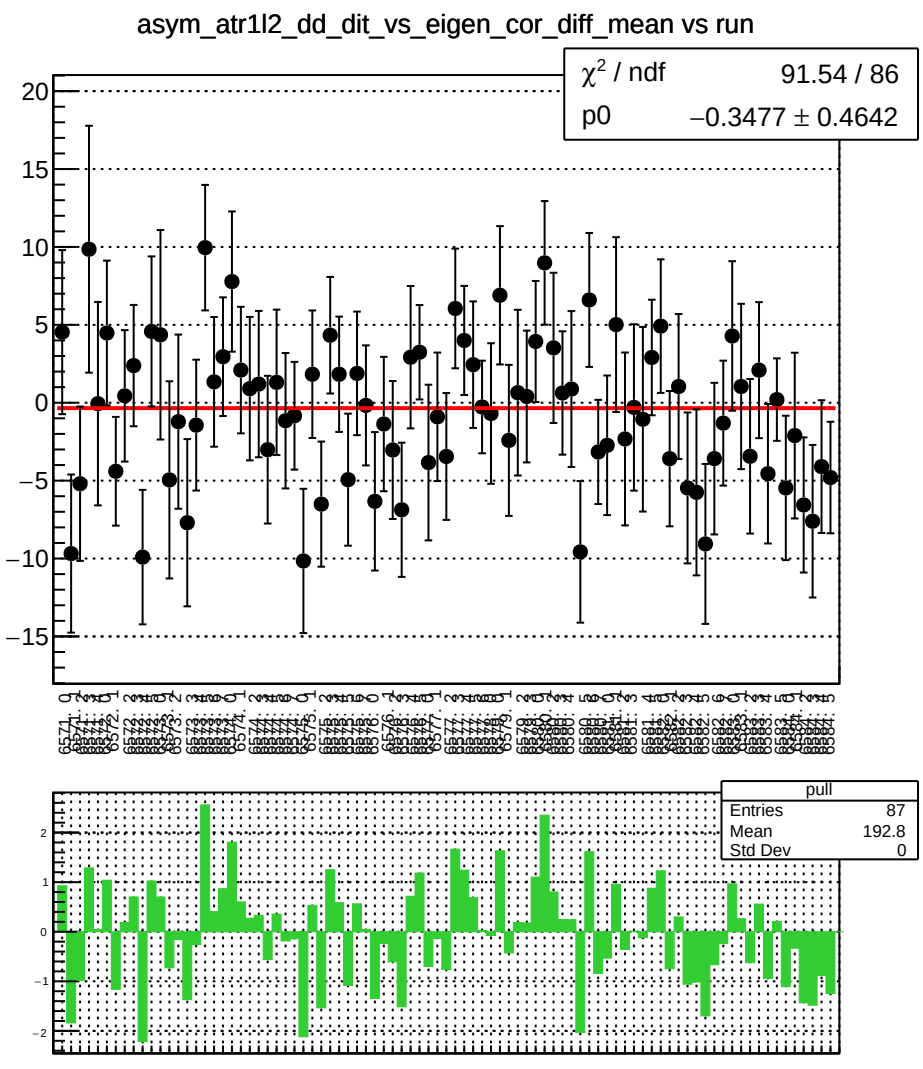

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.21 / 86
p0 −7.065e−14 ± 7.039e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 70.62
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.05275
Std Dev 0.9998
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

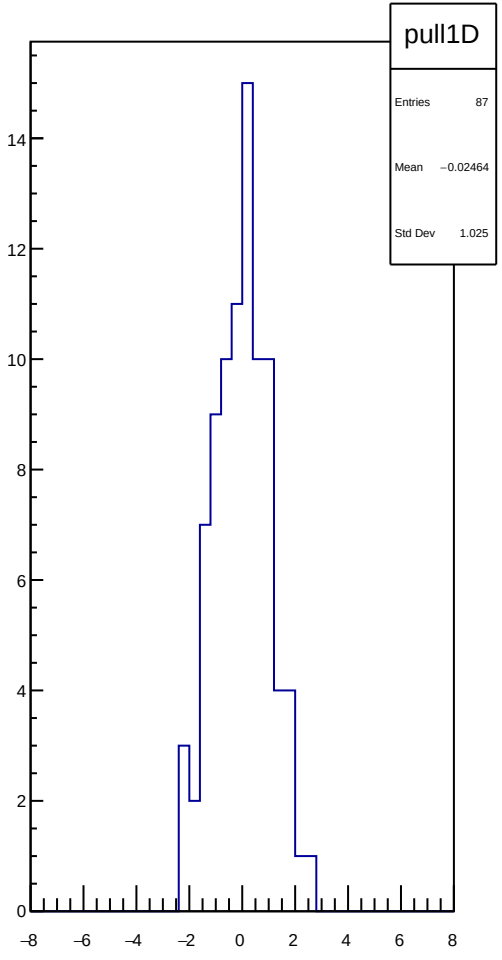

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.175e+06 / 86
p0 3.56e−11 ± 4.977e−14
1.2
1
0.8
0.6
0.4
0.2
0

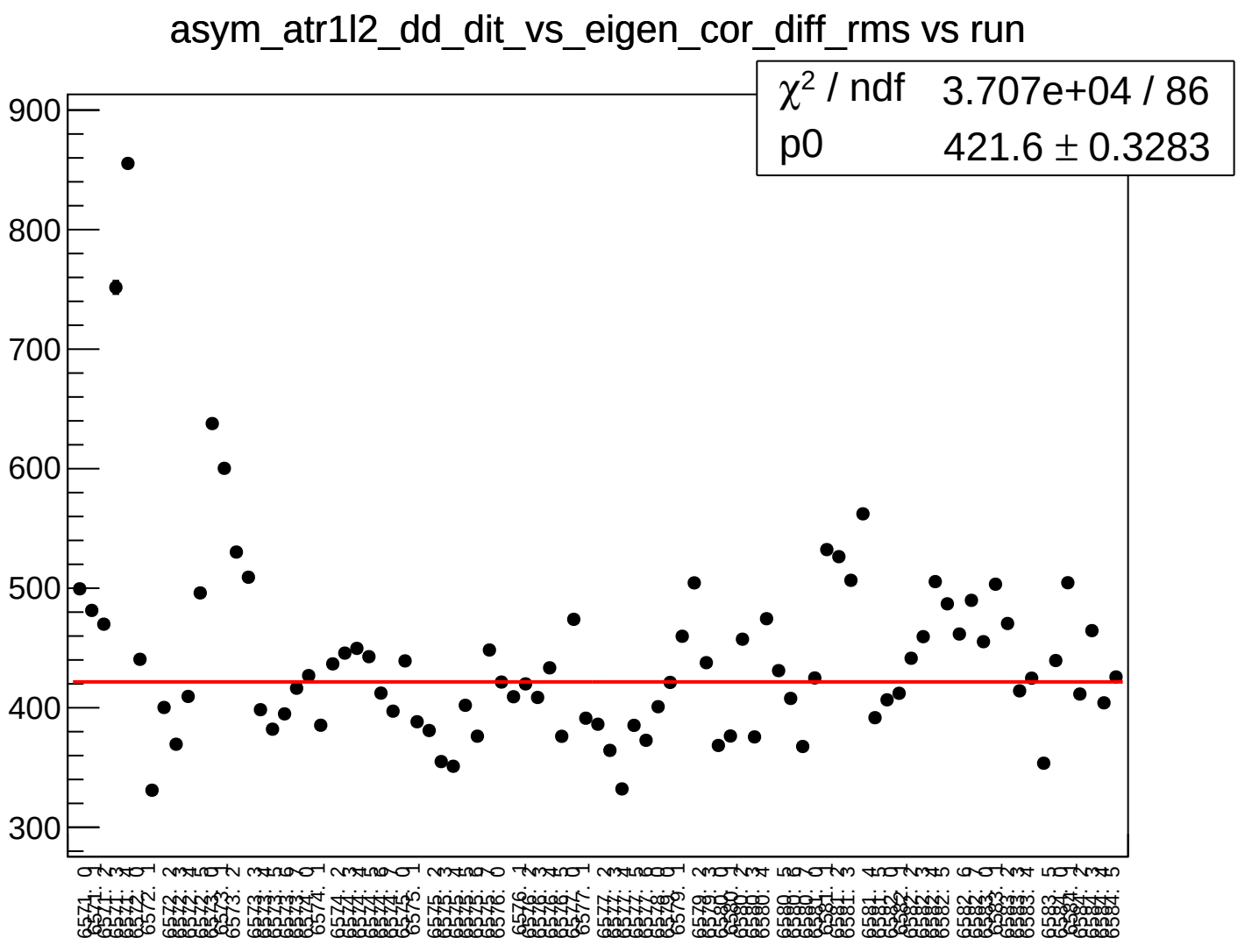

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.54 / 86
p0 −0.3477 ± 0.4642
pull
Entries 87
Mean 192.8
Std Dev 0

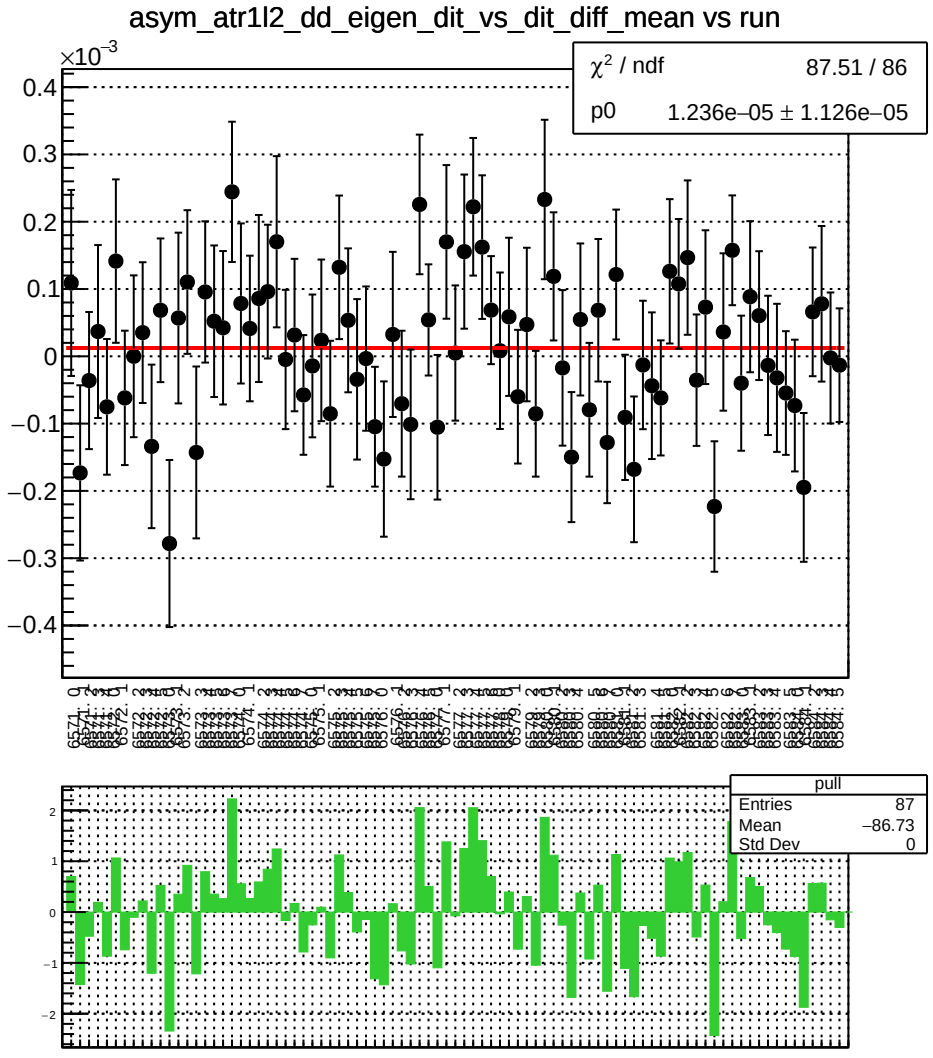

pull1D
Entries 87
Mean −0.02464
Std Dev 1.025

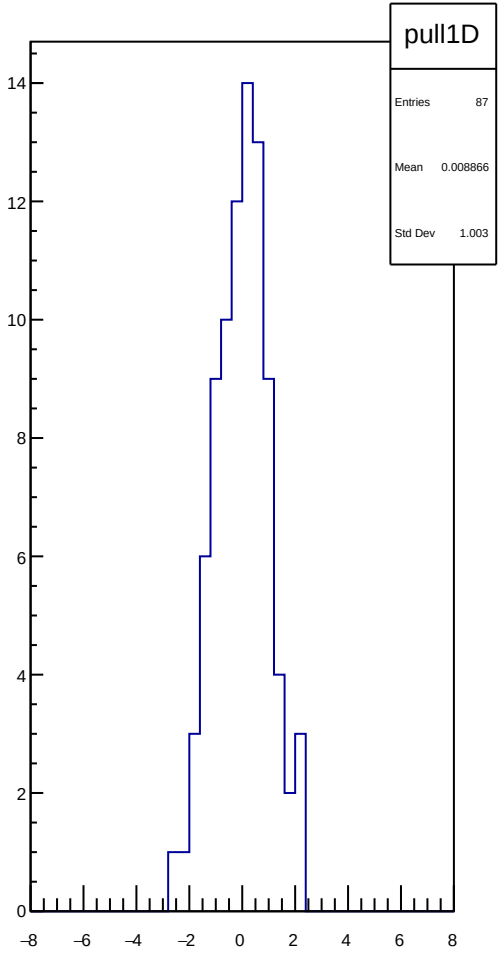

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.707e+04 / 86
p0 421.6 ± 0.3283
900
800
700
600
500
400
300

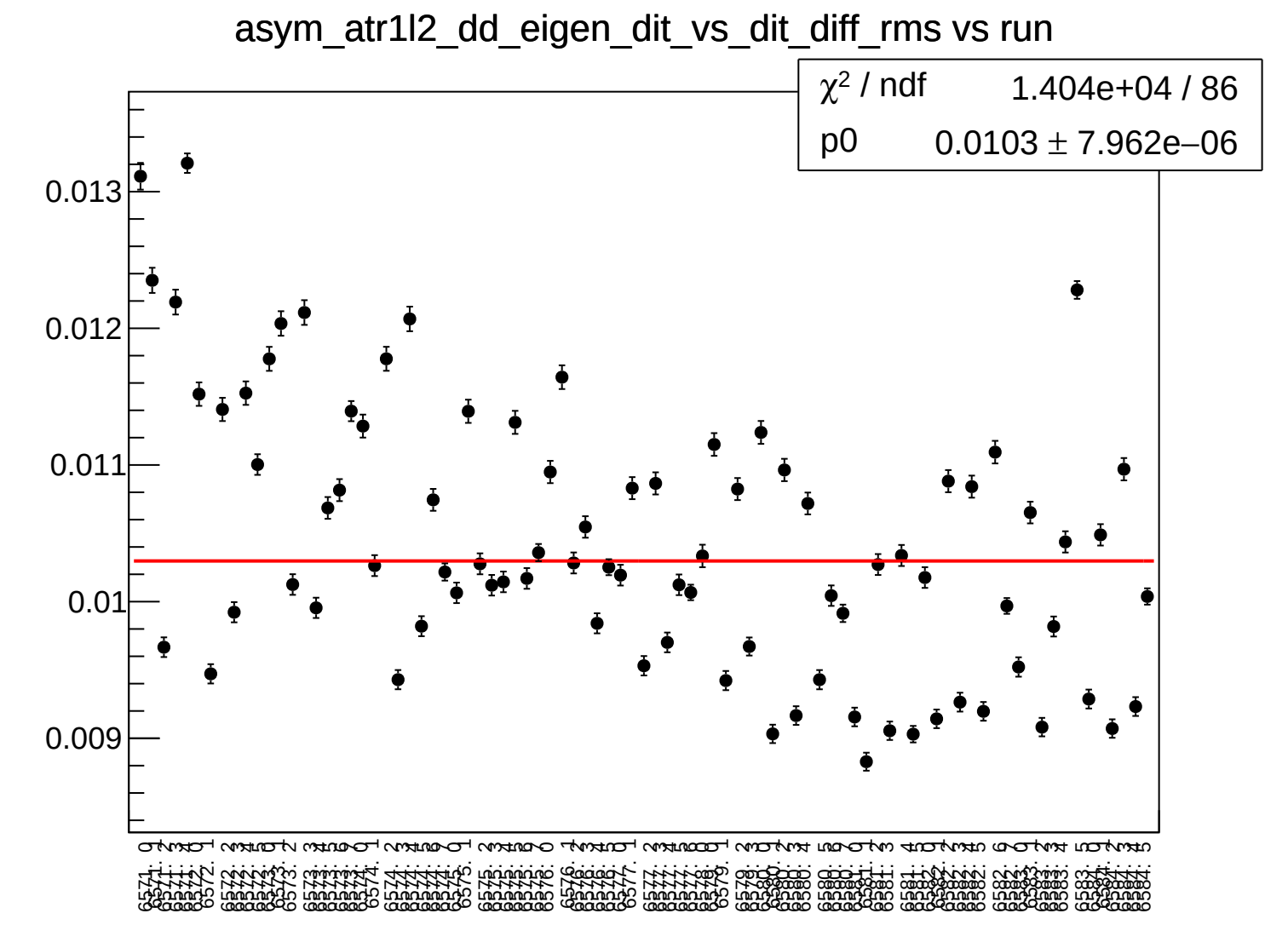

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.54 / 86
p0 −0.3477 ± 0.4642
pull
Entries 87
Mean 192.8
Std Dev 0

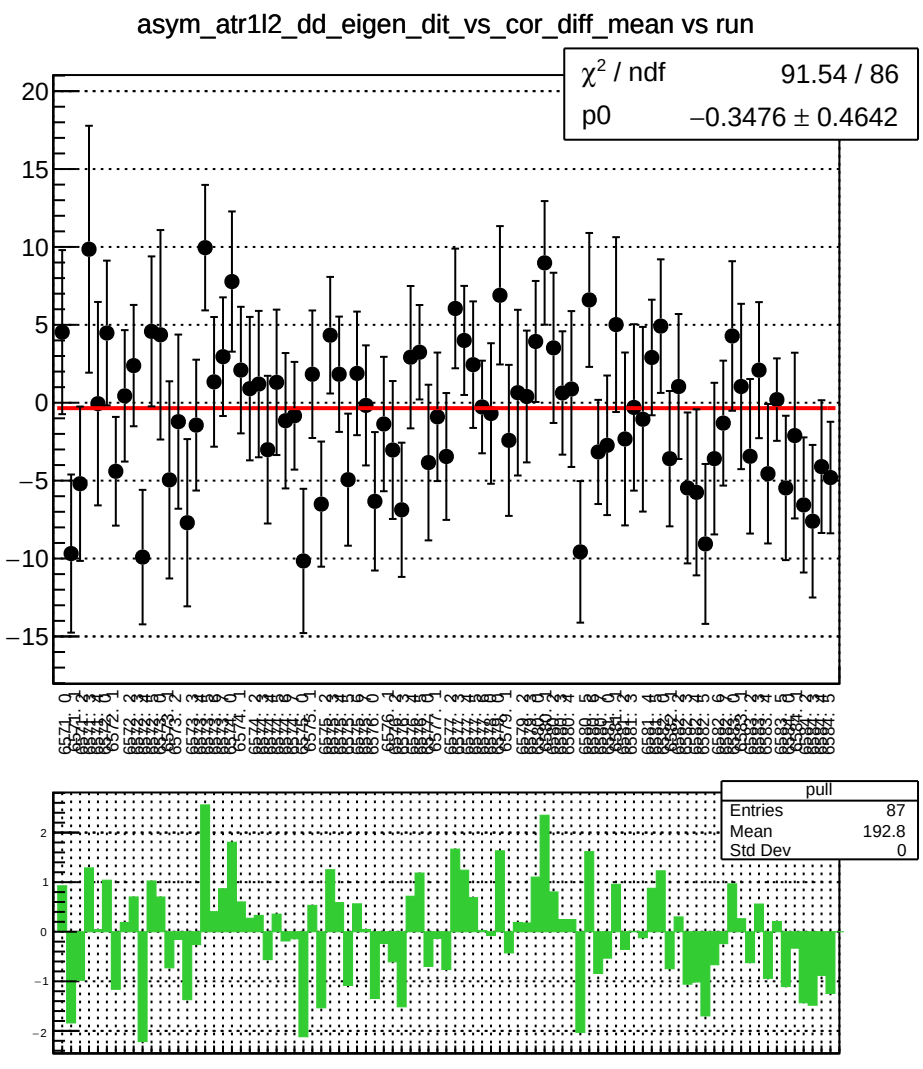

pull1D
Entries 87
Mean −0.02464
Std Dev 1.025

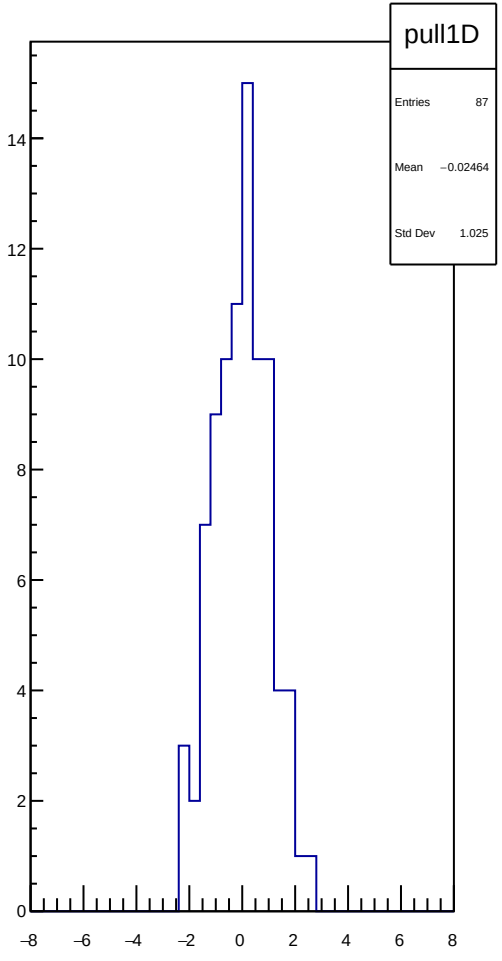

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.707e+04 / 86
p0 421.6 ± 0.3283
900
800
700
600
500
400
300

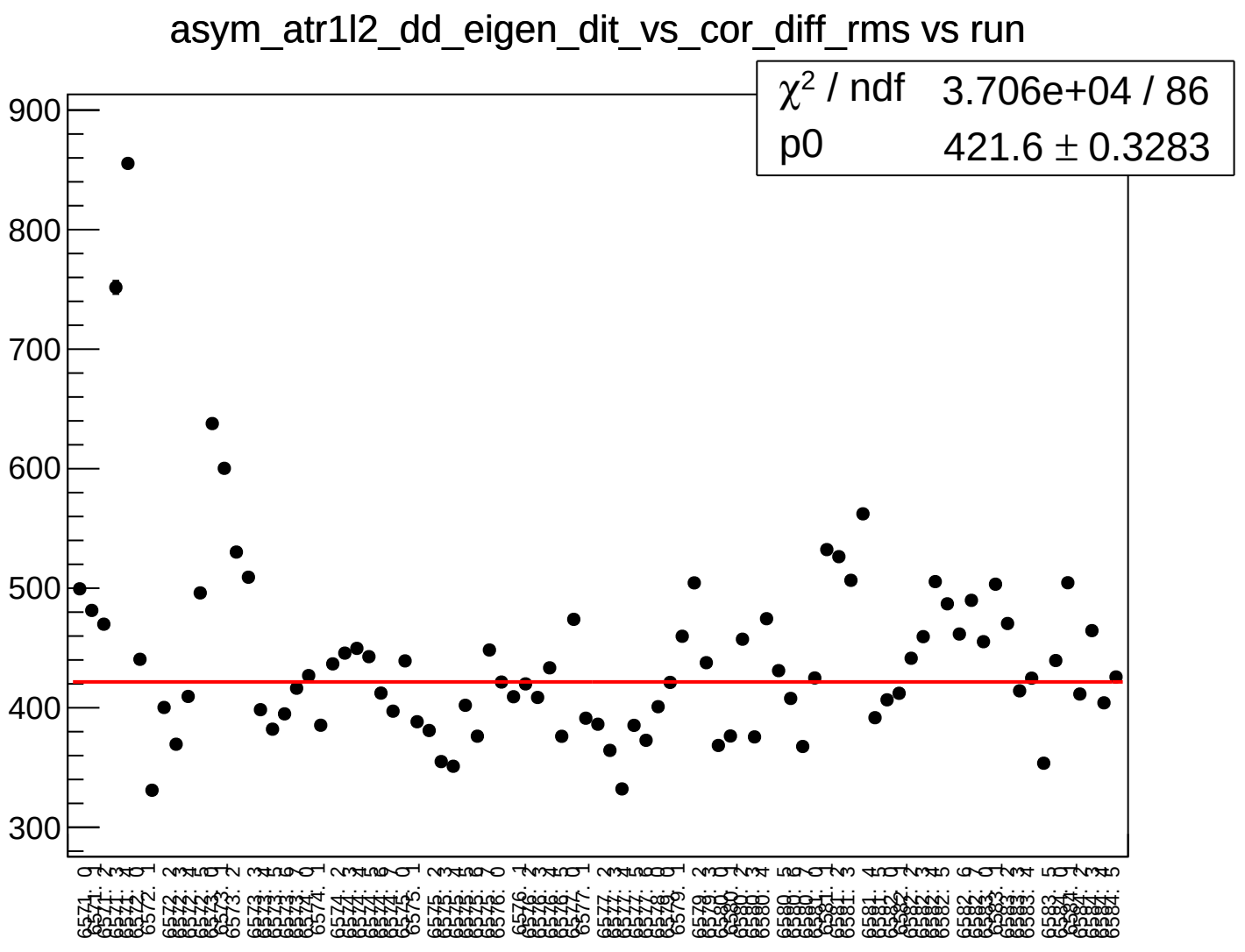

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.51 / 86
p0 1.236e−05 ± 1.126e−05
pull
Entries 87
Mean −86.73
Std Dev 0

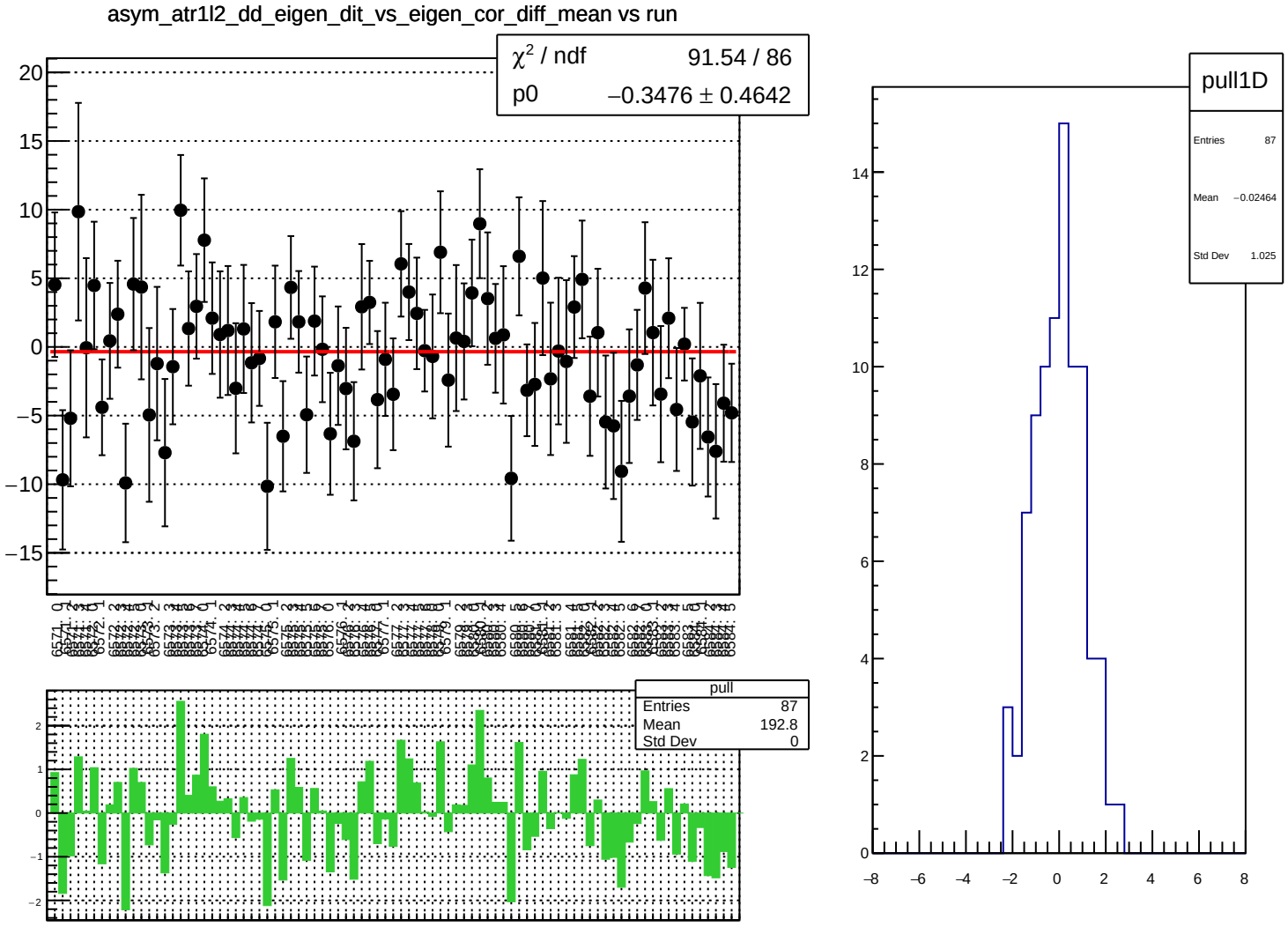

pull1D
Entries 87
Mean 0.008866
Std Dev 1.003

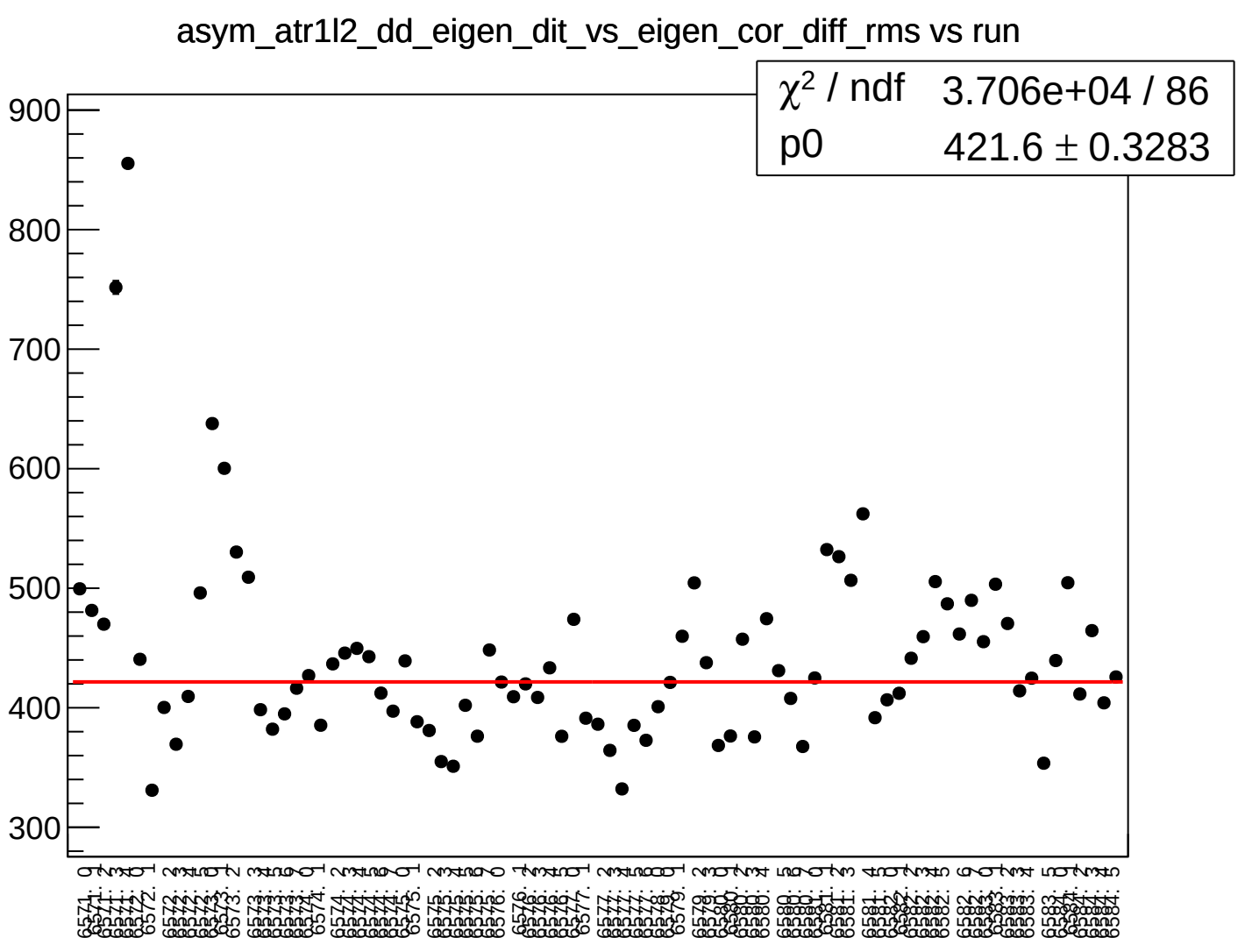

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.404e+04 / 86
p0 0.0103 ± 7.962e−06
0.013
0.012
0.011
0.01
0.009

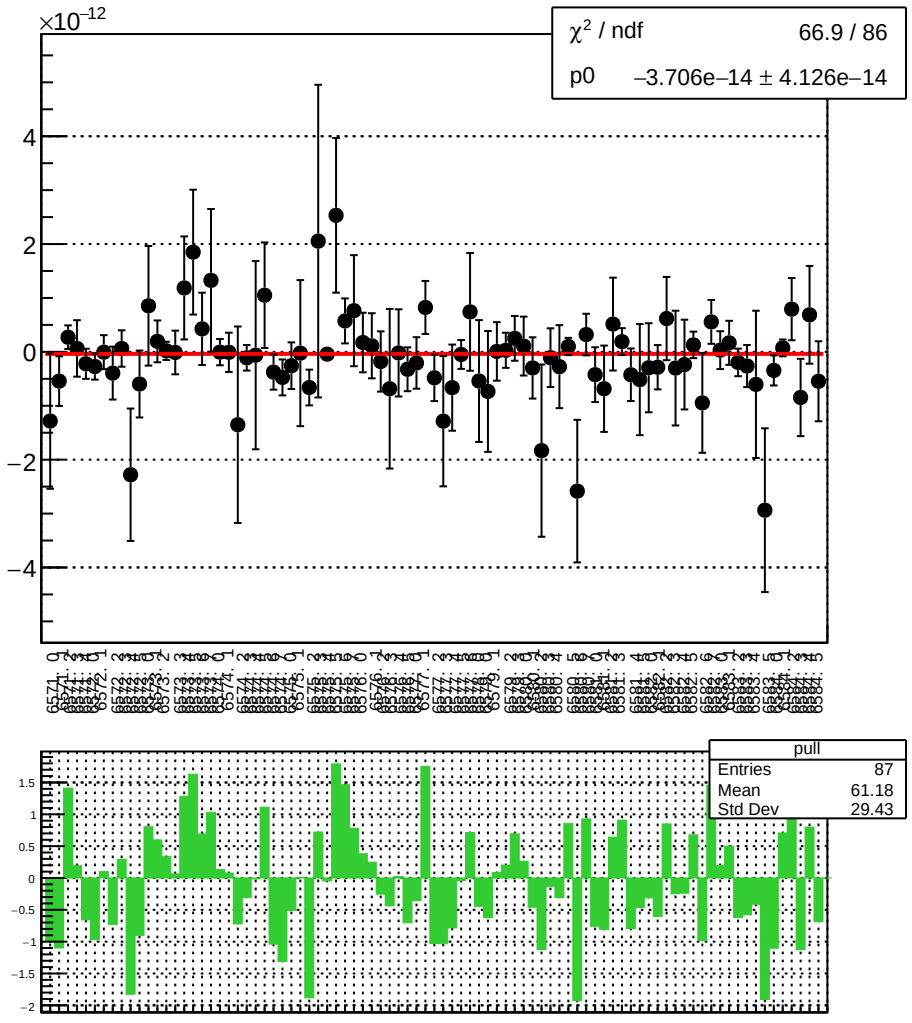

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.54 / 86
p0 −0.3476 ± 0.4642
pull
Entries 87
Mean 192.8
Std Dev 0

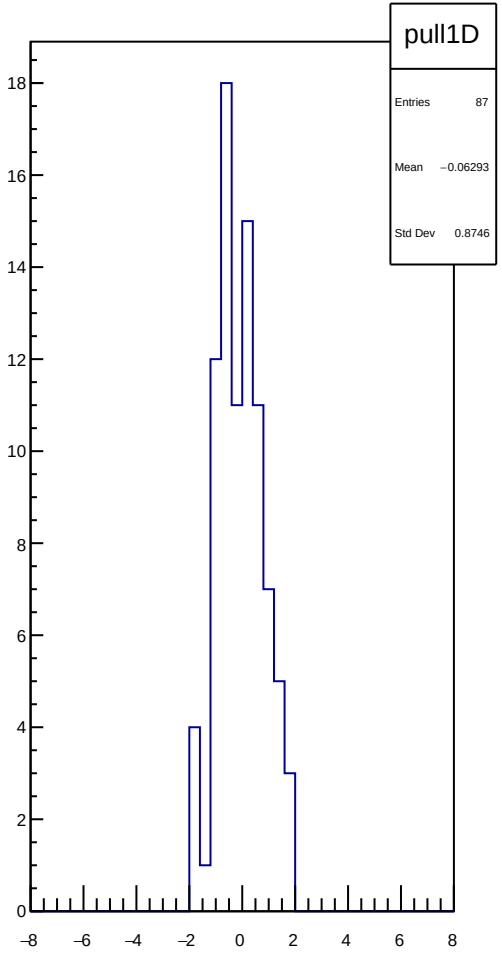

pull1D
Entries 87
Mean −0.02464
Std Dev 1.025

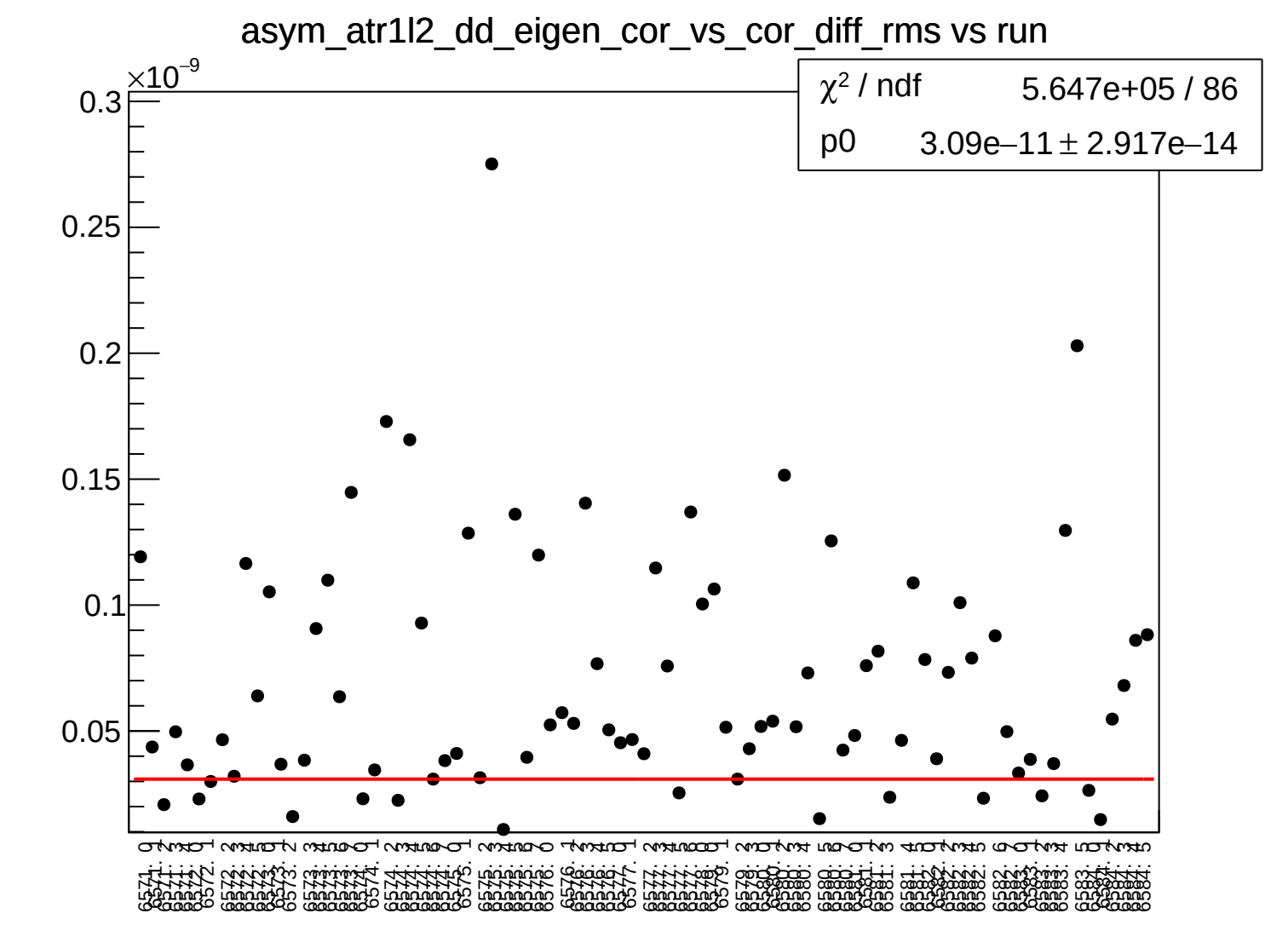

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.706e+04 / 86
p0 421.6 ± 0.3283
900
800
700
600
500
400
300

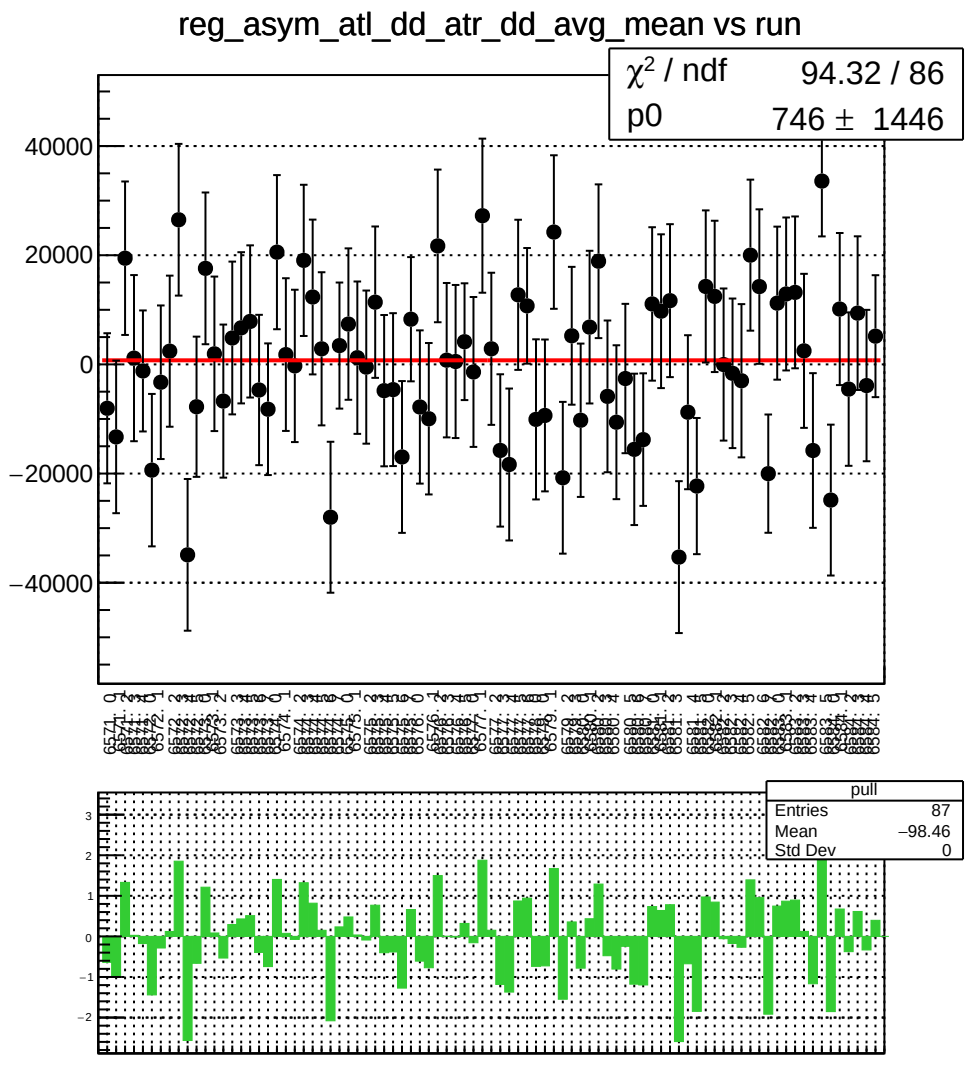

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.54 / 86
p0 −0.3476 ± 0.4642
pull
Entries 87
Mean 192.8
Std Dev 0
pull1D
Entries 87
Mean −0.02464
Std Dev 1.025

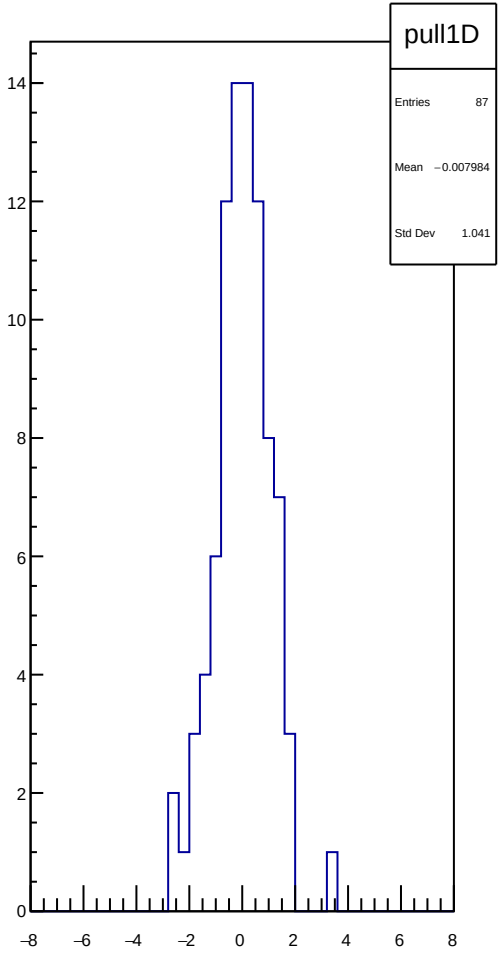

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.706e+04 / 86
p0 421.6 ± 0.3283
900
800
700
600
500
400
300

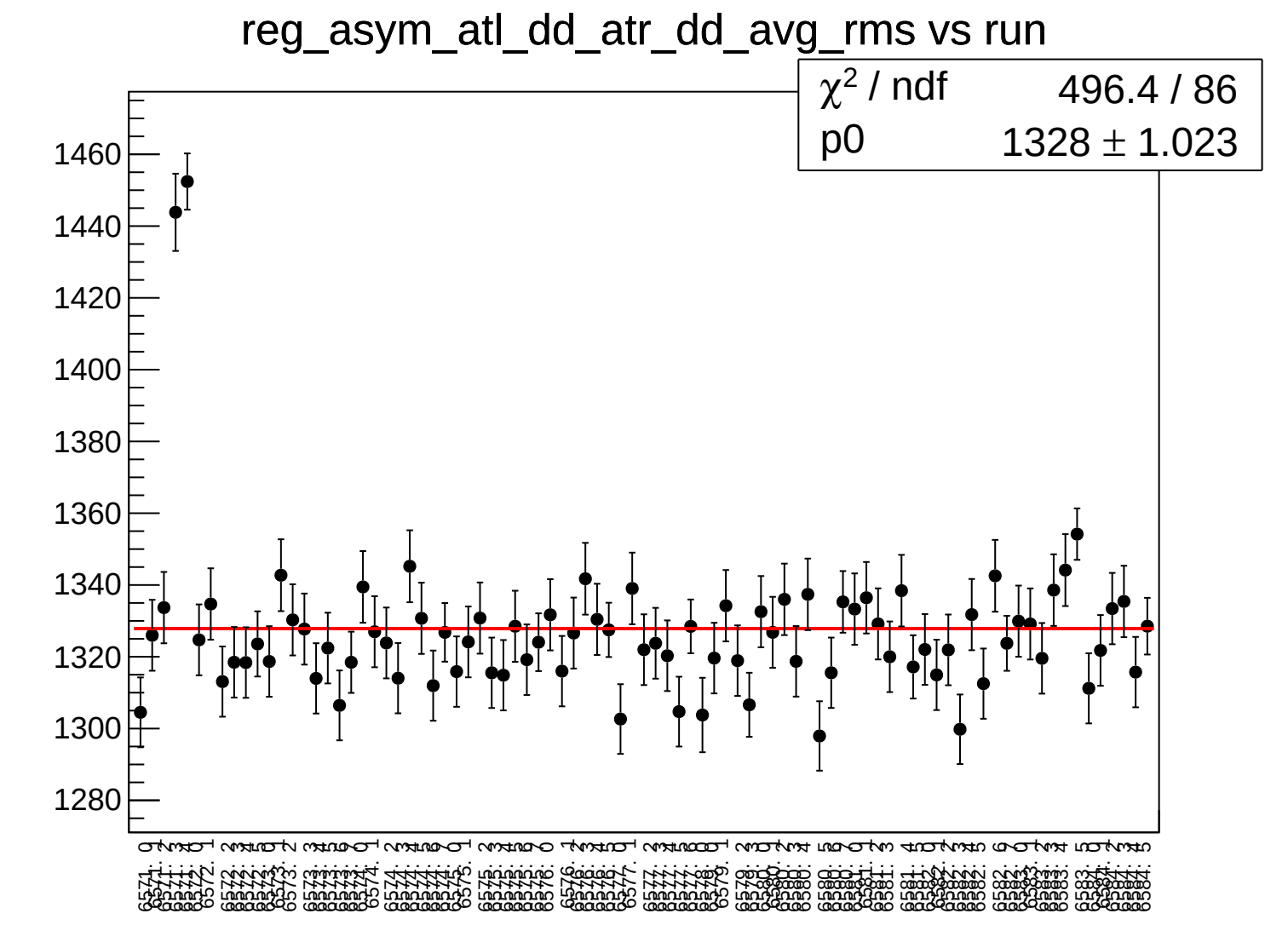

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.9 / 86
p0 −3.706e−14 ± 4.126e−14
pull
Entries 87
Mean 61.18
Std Dev 29.43

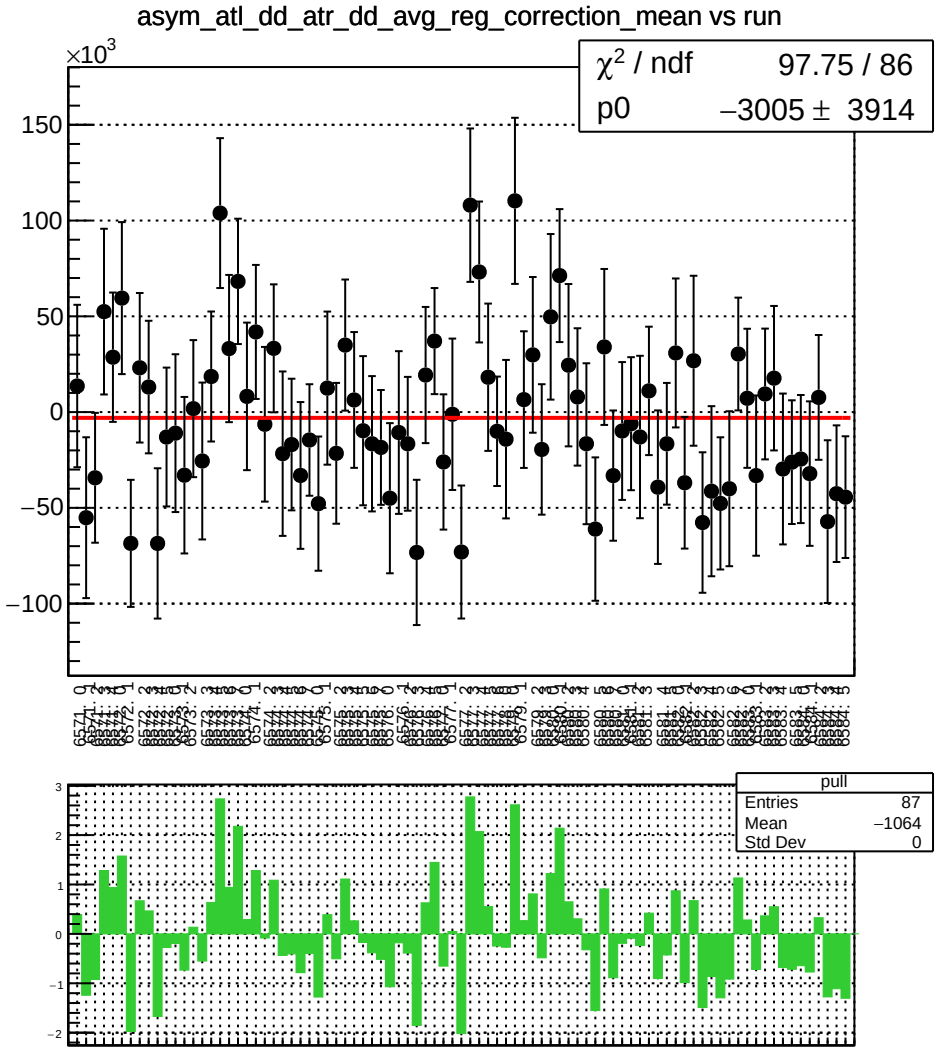

pull1D
Entries 87
Mean −0.06293
Std Dev 0.8746

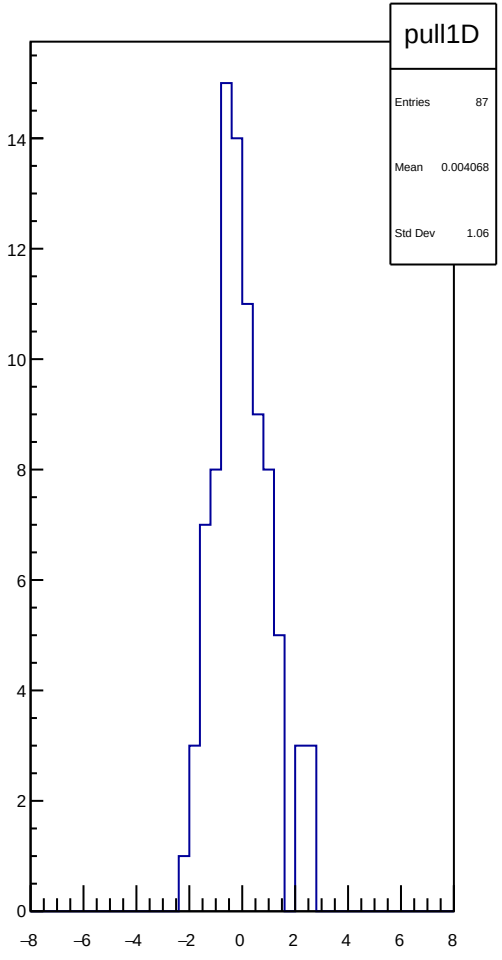

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.647e+05 / 86
p0 3.09e−11 ± 2.917e−14
0.3
0.25
0.2
0.15
0.1
0.05

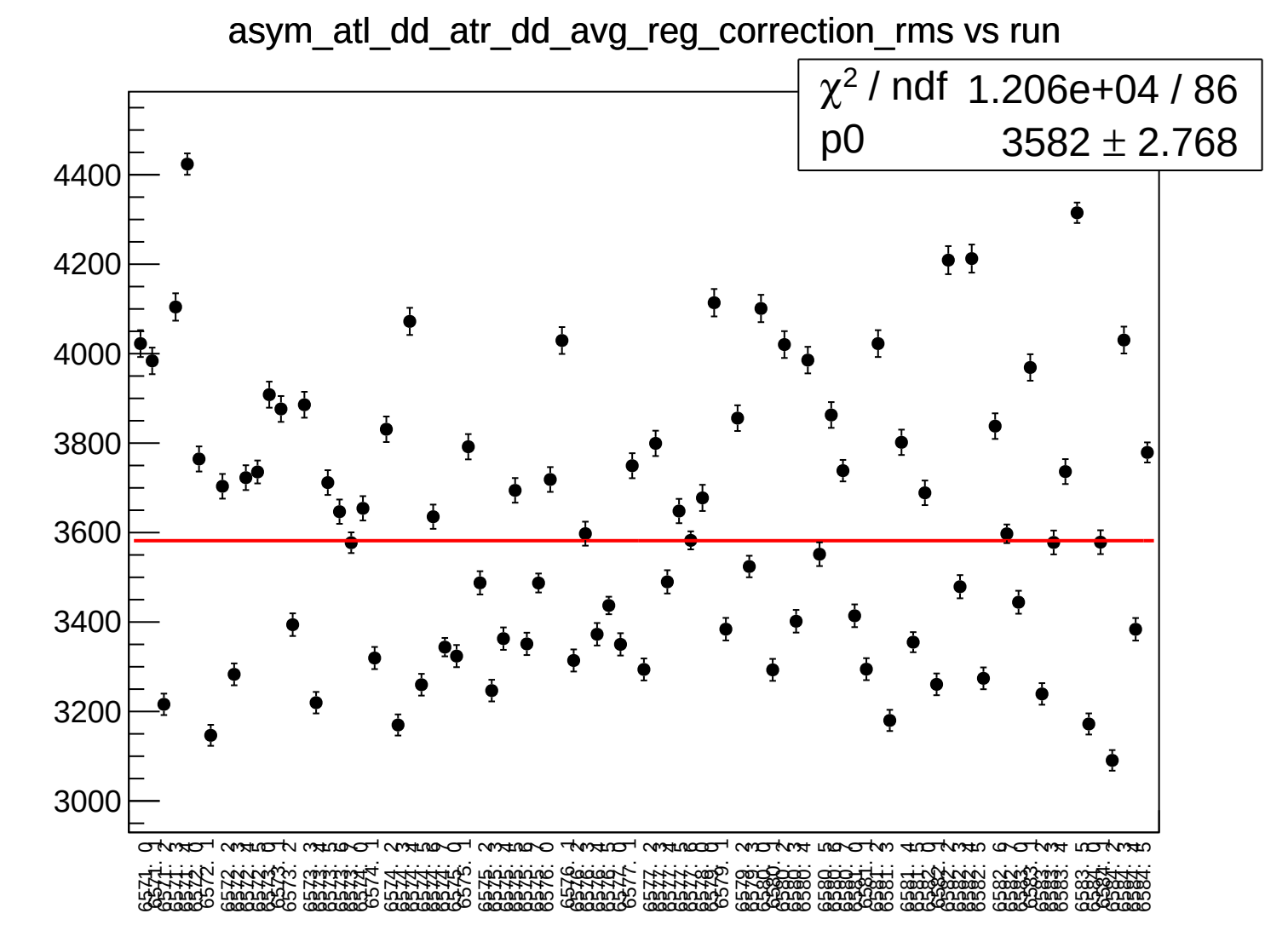

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 94.32 / 86
p0 746 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −98.46
Std Dev 0
3
2
1
0
−1
−2

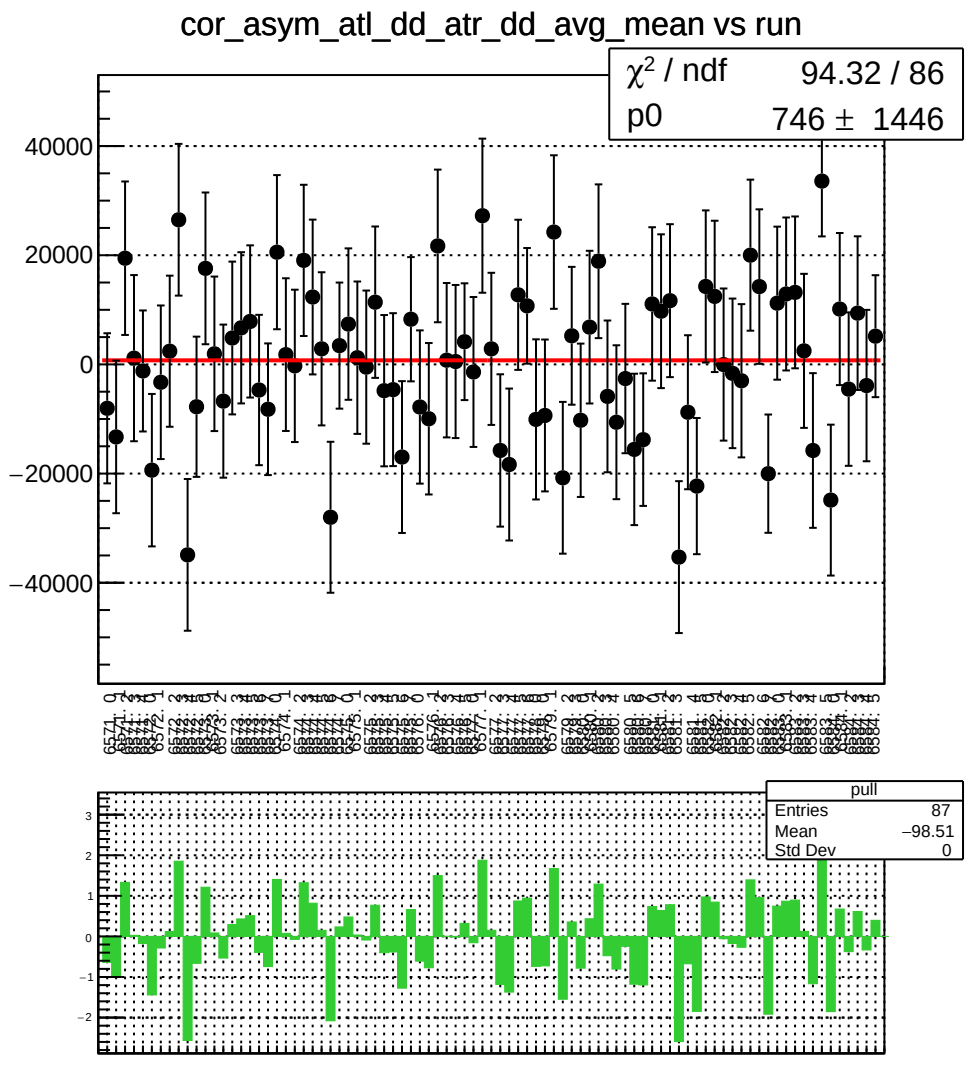

pull1D
Entries 87
Mean −0.007984
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

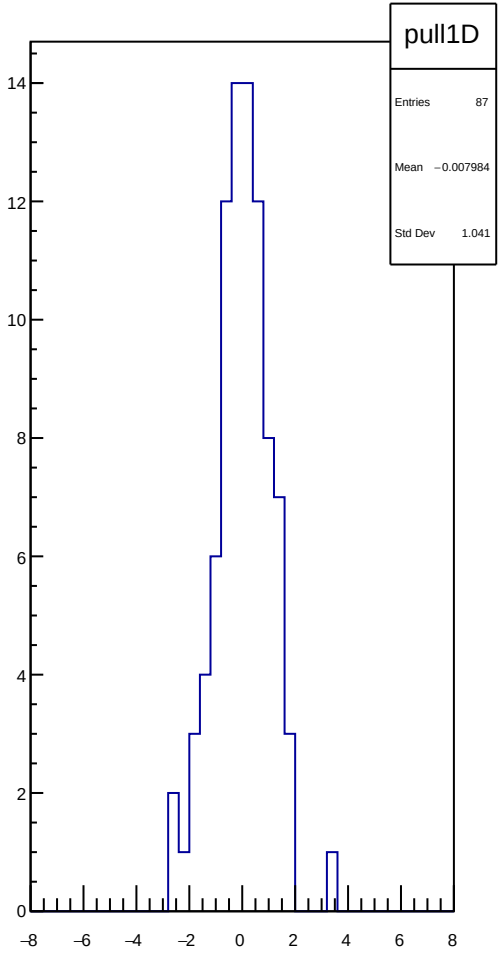

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 496.4 / 86
p0 1328 ± 1.023
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

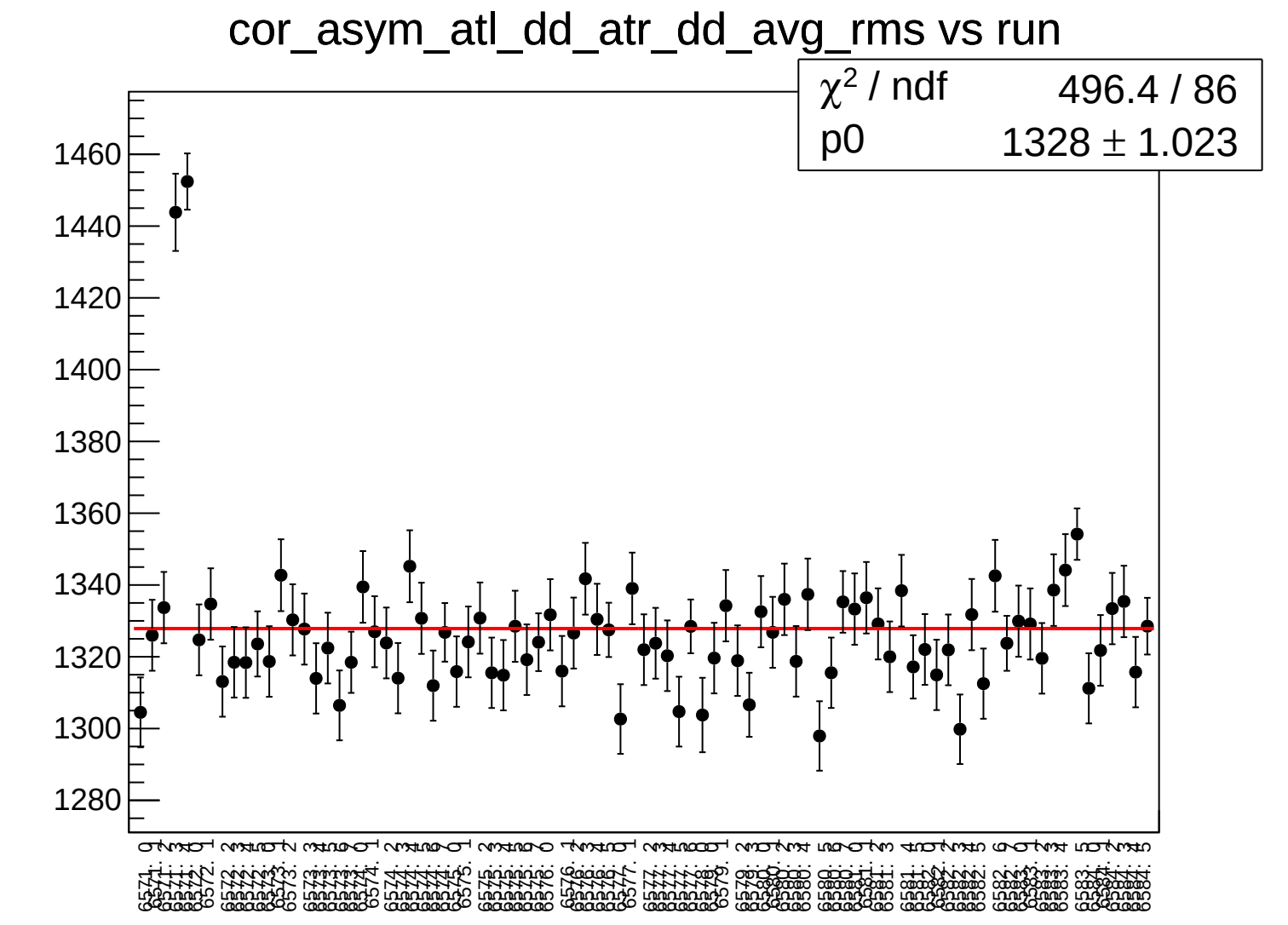

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.75 / 86
p0 −3005 ± 3914
150
100
50
0
−50
−100
pull
Entries 87
Mean −1064
Std Dev 0
3
2
1
0
−1
−2

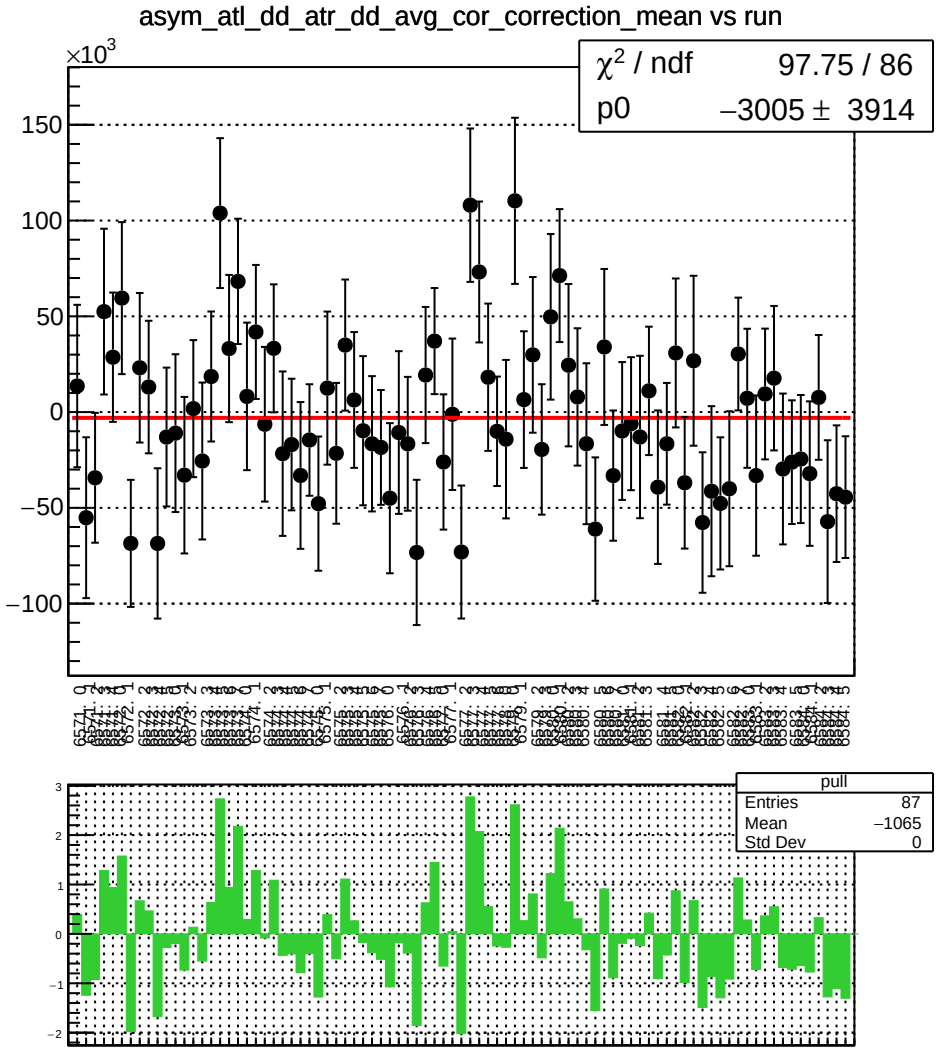

pull1D
Entries 87
Mean 0.004068
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

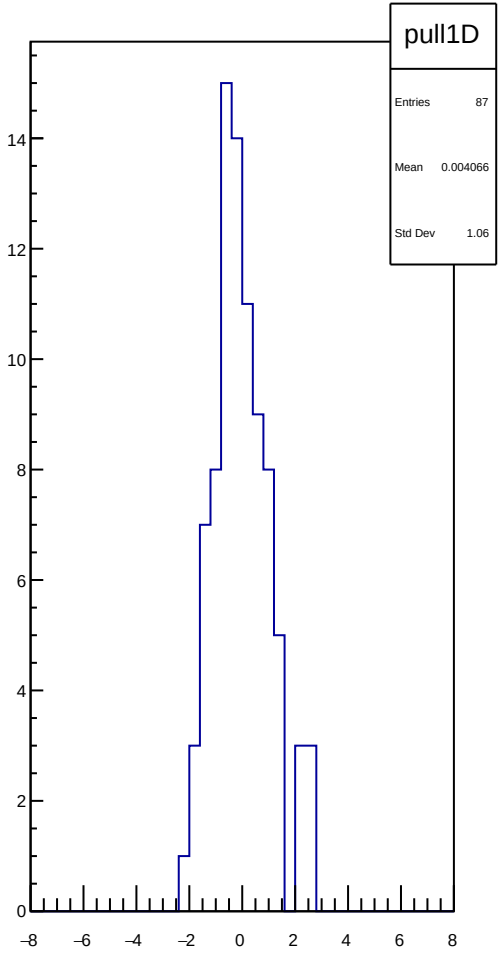

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.206e+04 / 86
p0 3582 ± 2.768
4400
4200
4000
3800
3600
3400
3200
3000

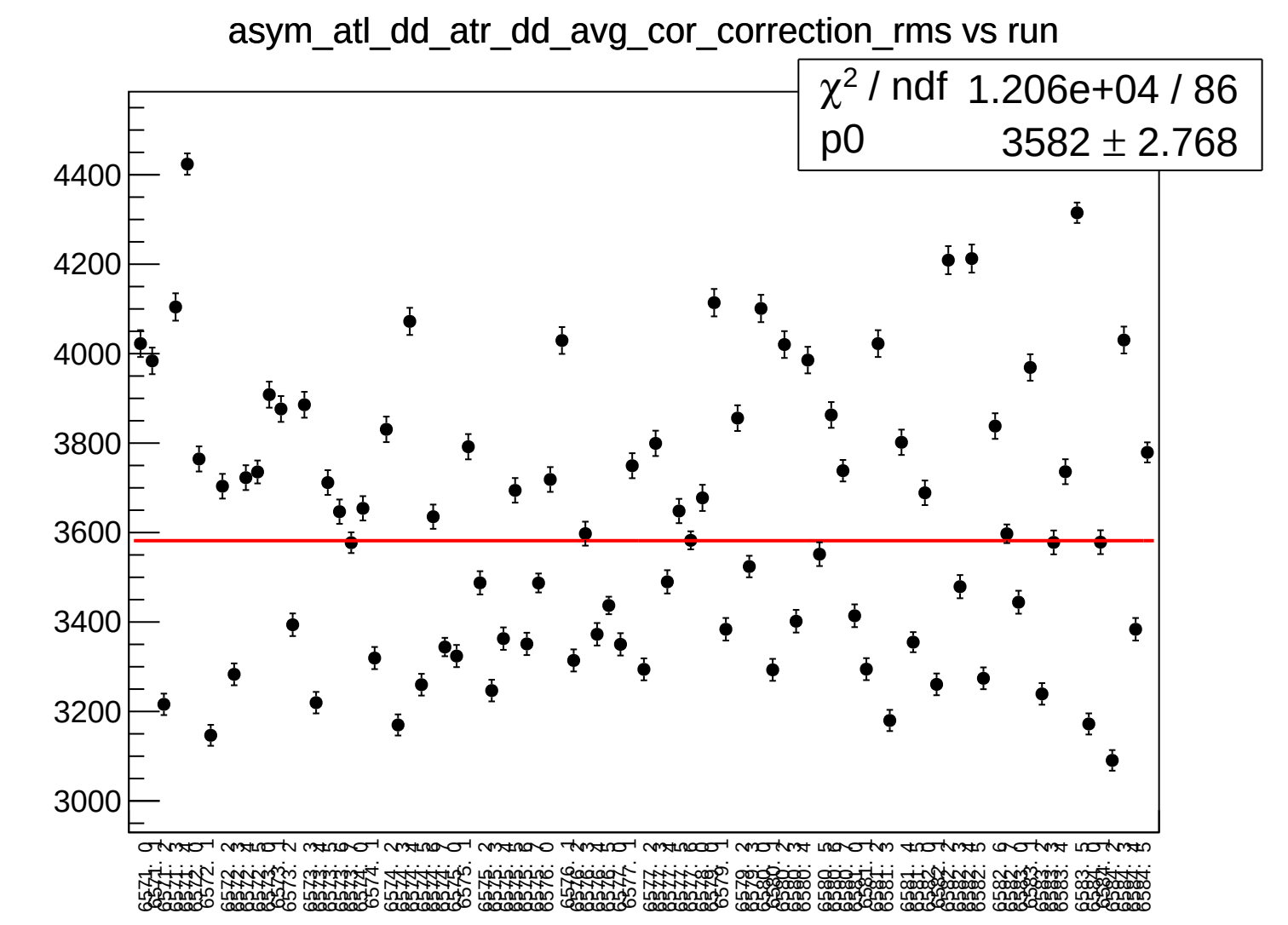

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 94.32 / 86
p0 746 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −98.51
Std Dev 0
3
2
1
0
−1
−2

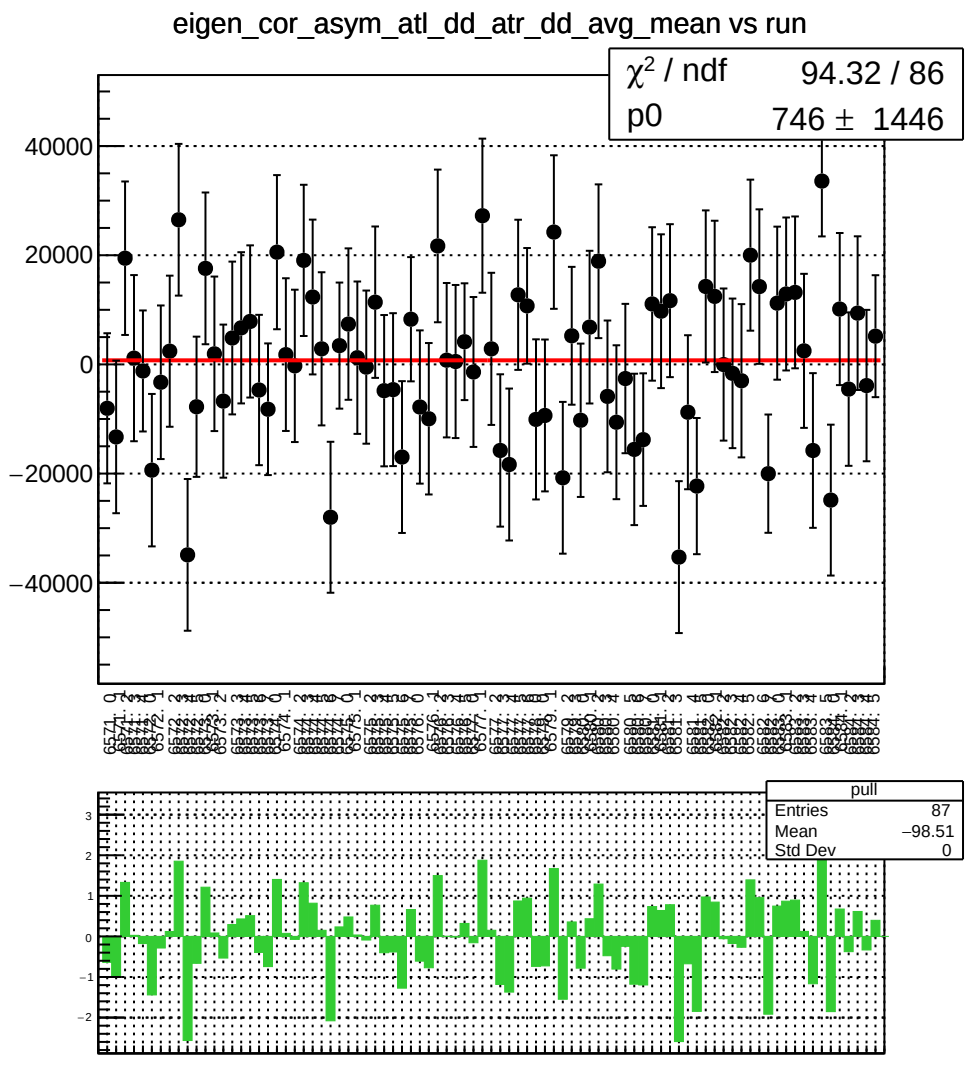

pull1D
Entries 87
Mean −0.007984
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

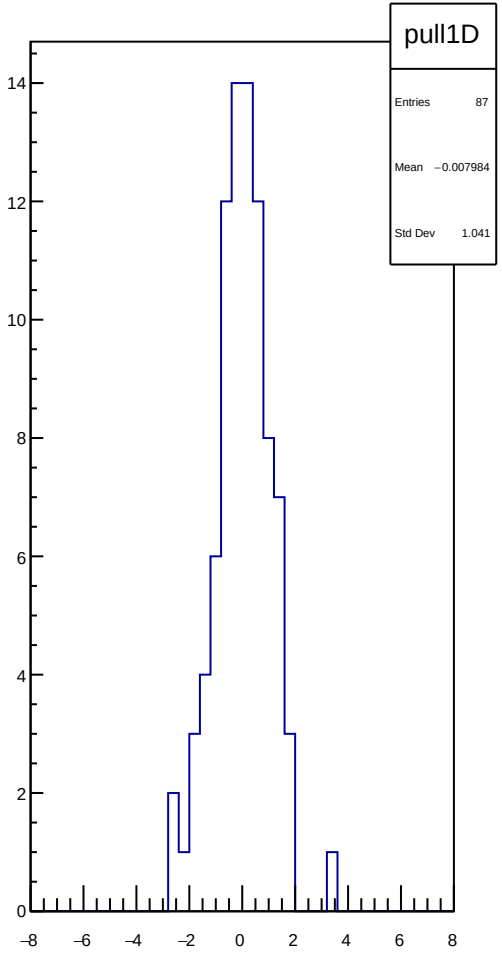

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 496.4 / 86
p0 1328 ± 1.023
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

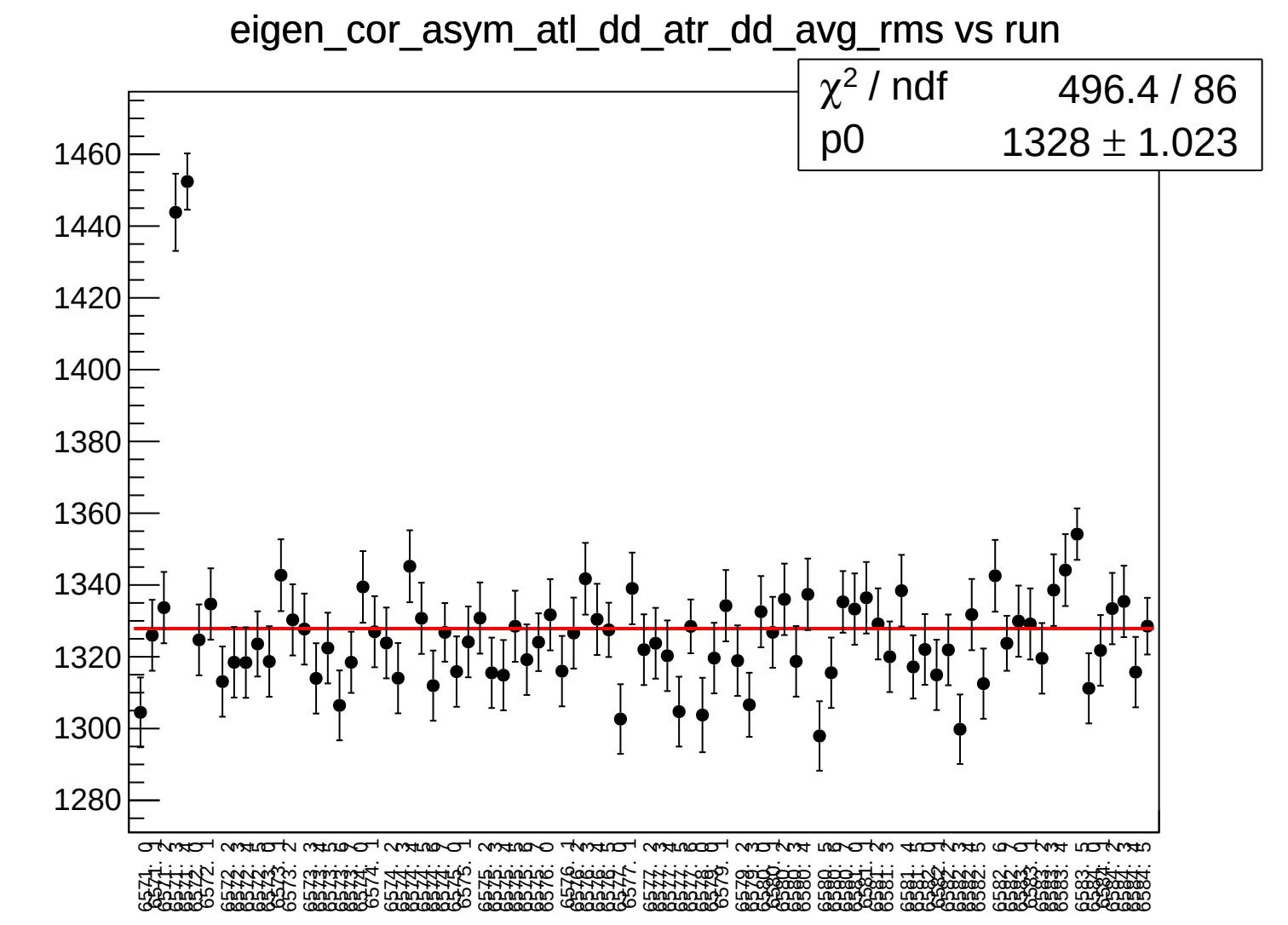

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.75 / 86
p0 −3005 ± 3914
150
100
50
0
−50
−100
pull
Entries 87
Mean −1065
Std Dev 0
3
2
1
0
−1
−2

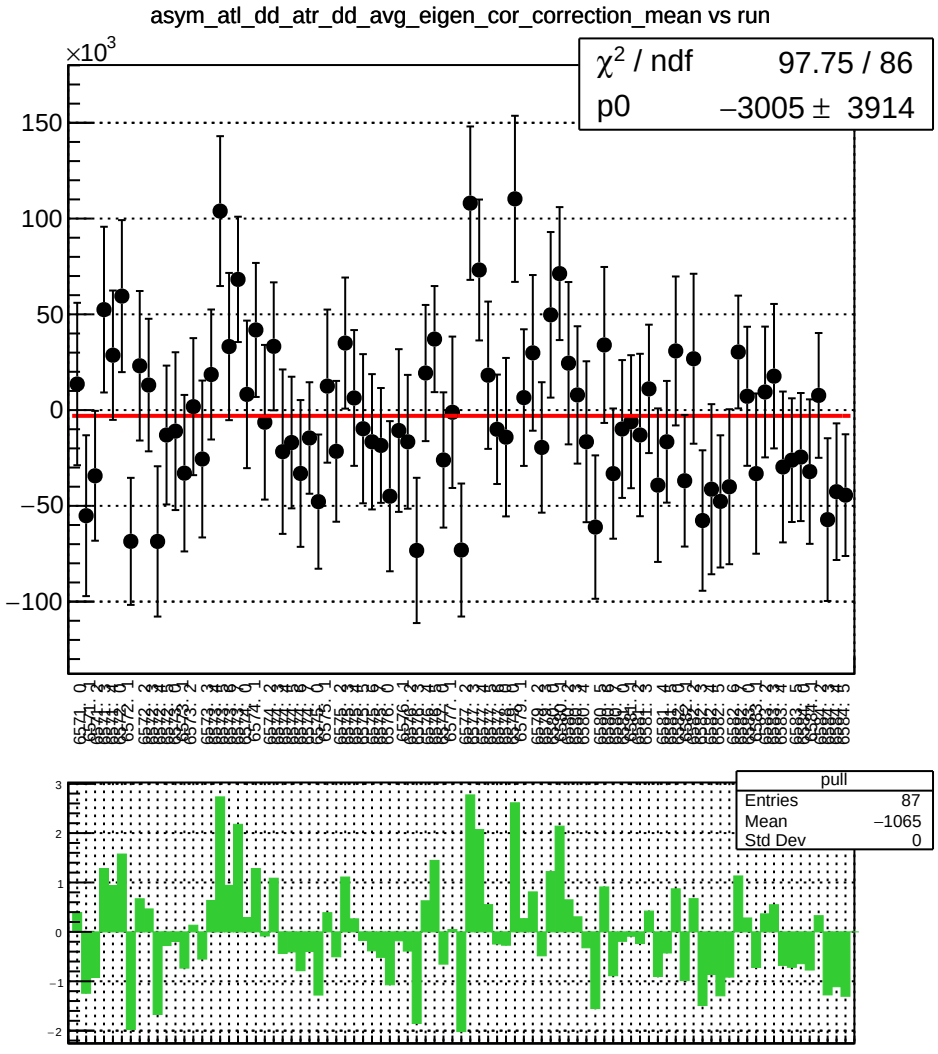

pull1D
Entries 87
Mean 0.004066
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

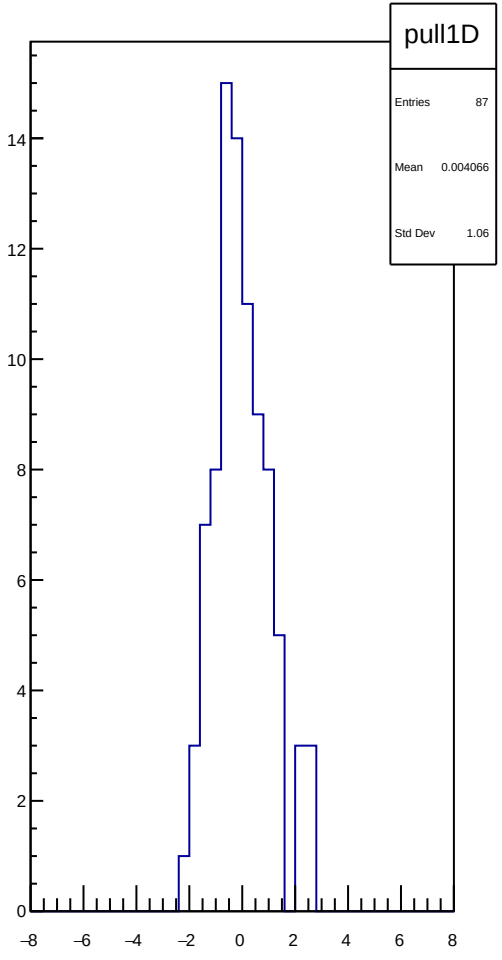

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.206e+04 / 86
p0 3582 ± 2.768
4400
4200
4000
3800
3600
3400
3200
3000

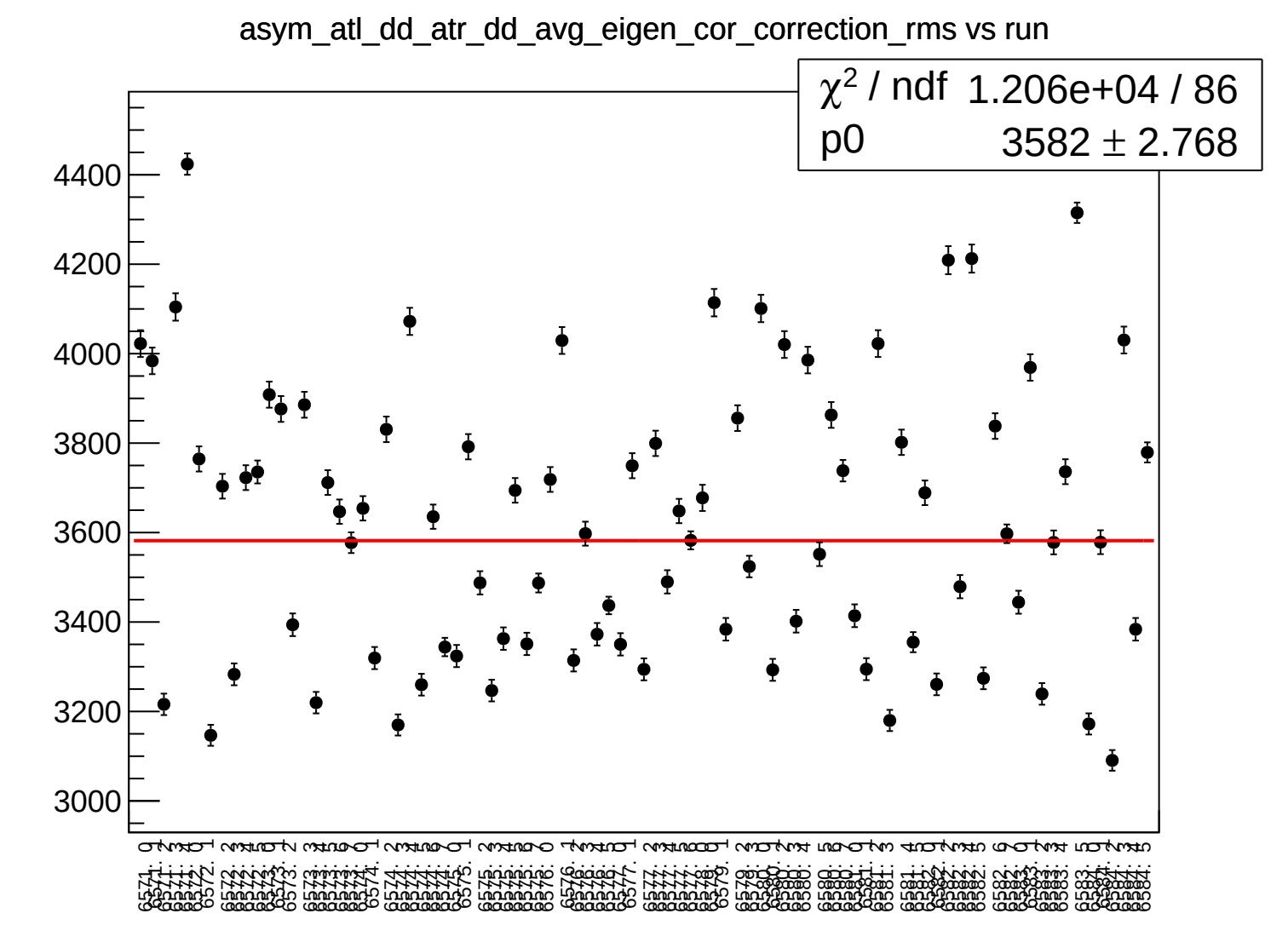

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 94.32 / 86
p0 746 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −98.51
Std Dev 0
3
2
1
0
−1
−2

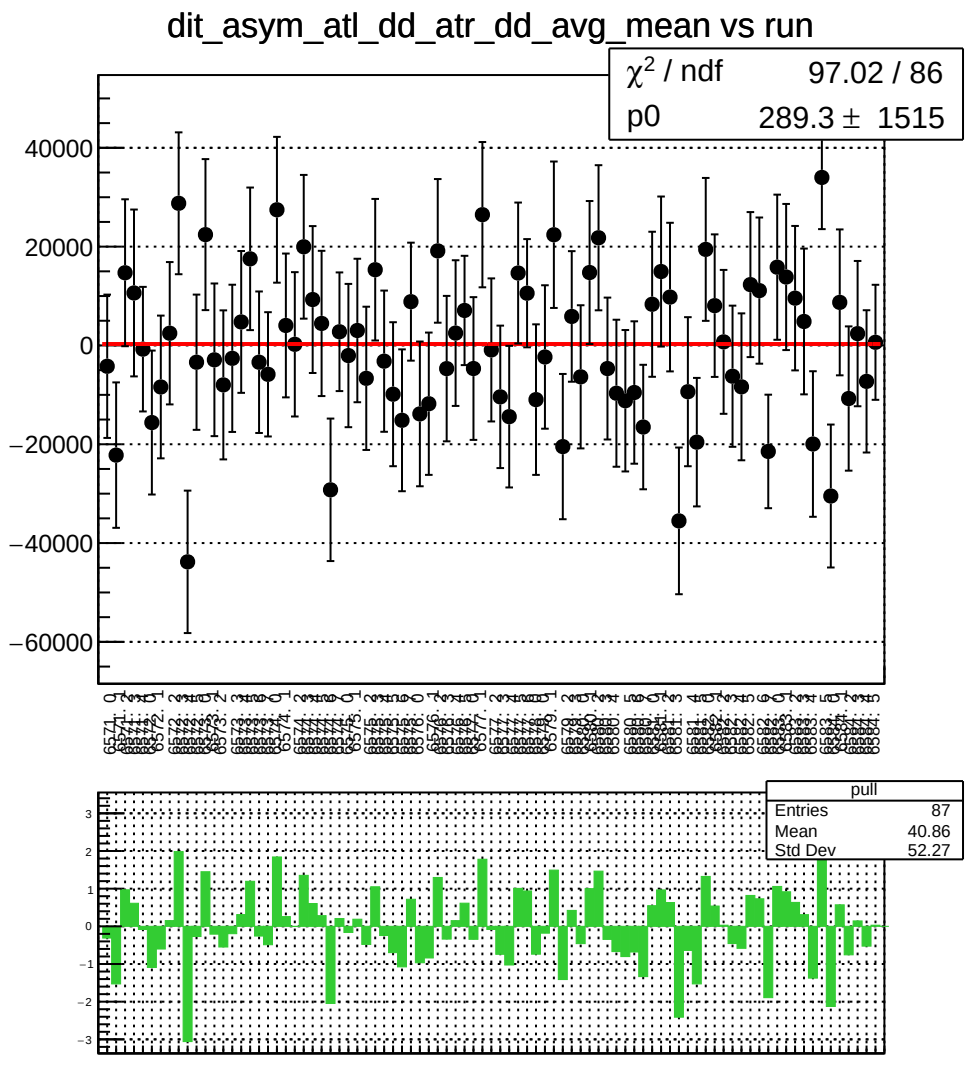

pull1D
Entries 87
Mean −0.007984
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

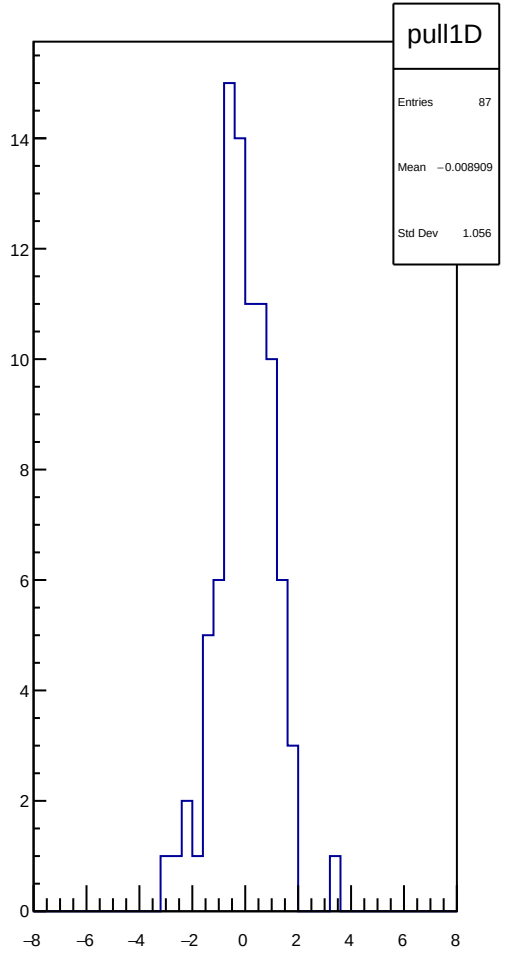

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 496.4 / 86
p0 1328 ± 1.023
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

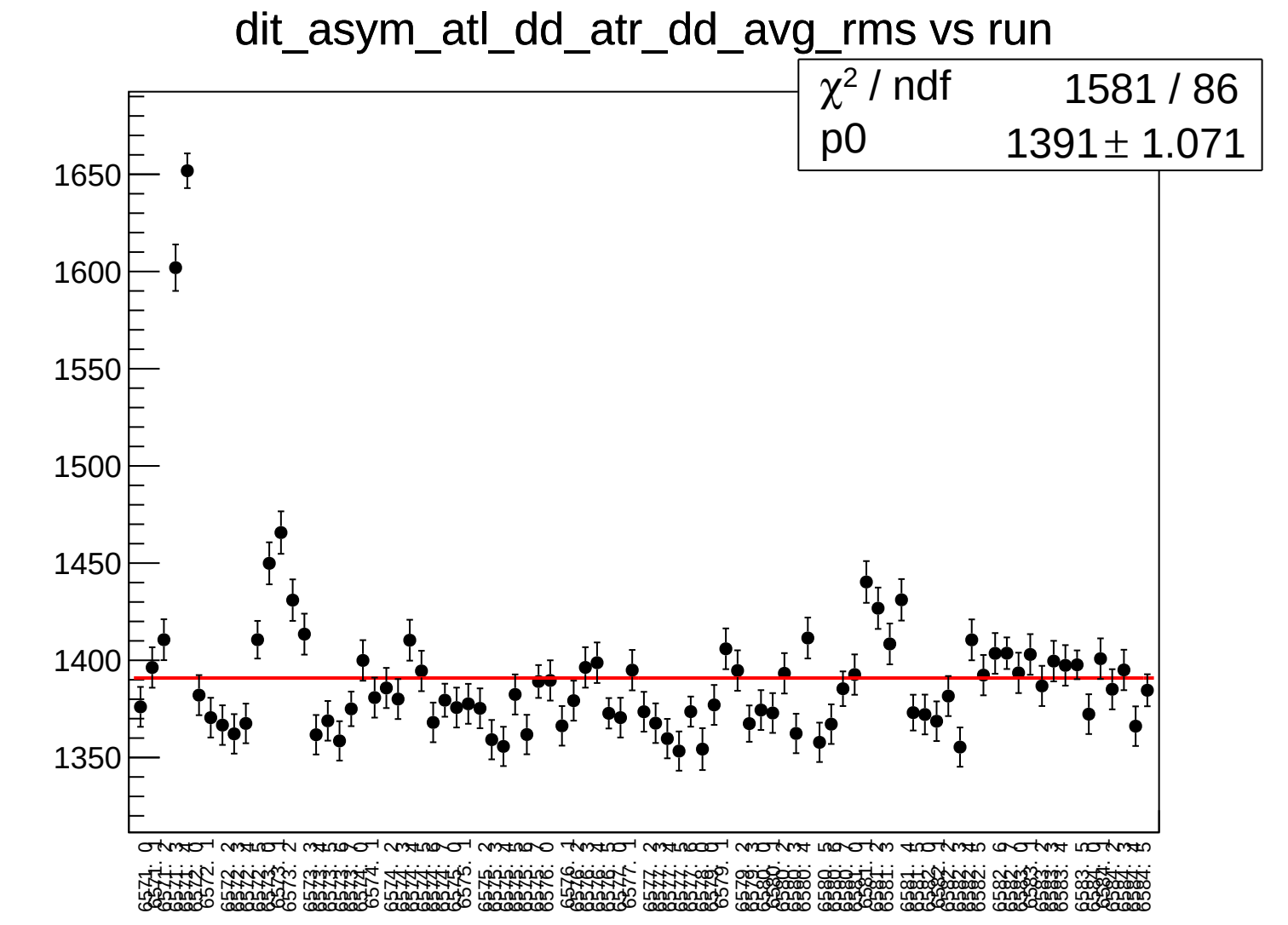

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.75 / 86
p0 −3005 ± 3914
150
100
50
0
−50
−100
pull
Entries 87
Mean −1065
Std Dev 0
3
2
1
0
−1
−2

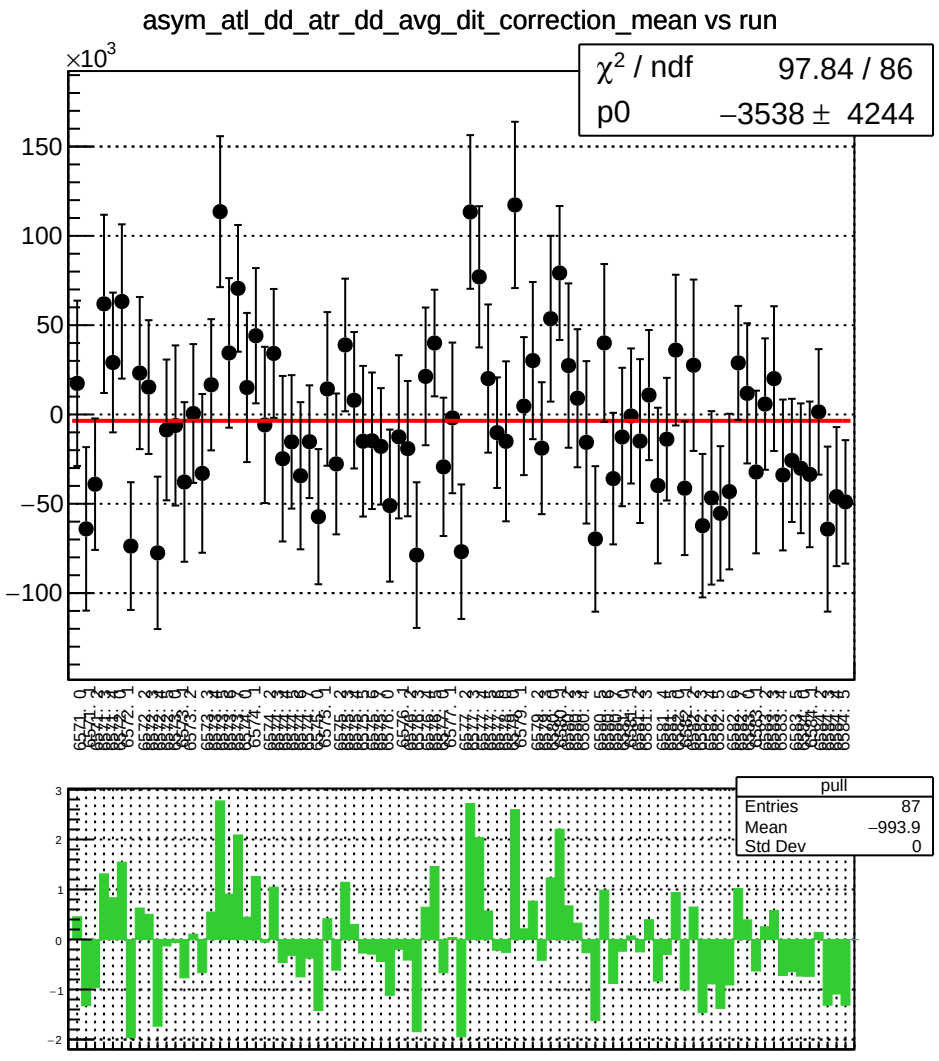

pull1D
Entries 87
Mean 0.004066
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

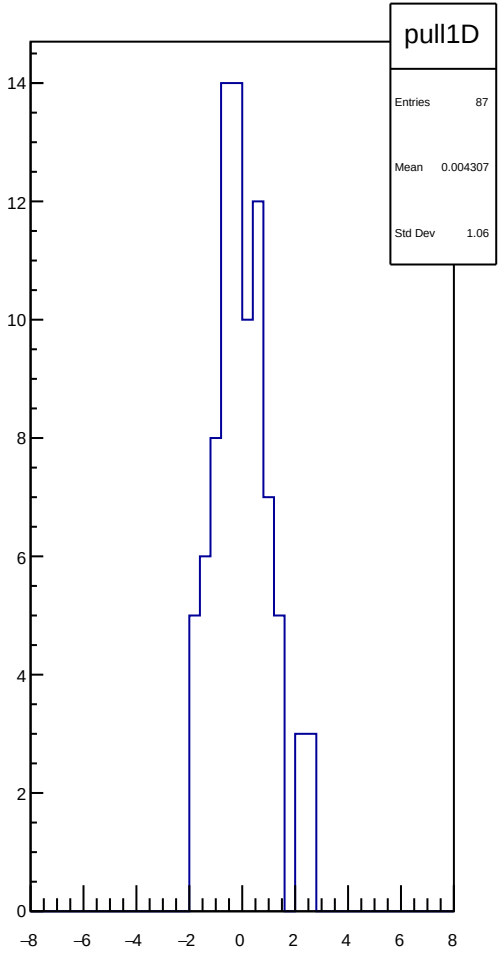

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.206e+04 / 86
p0 3582 ± 2.768
4400
4200
4000
3800
3600
3400
3200
3000

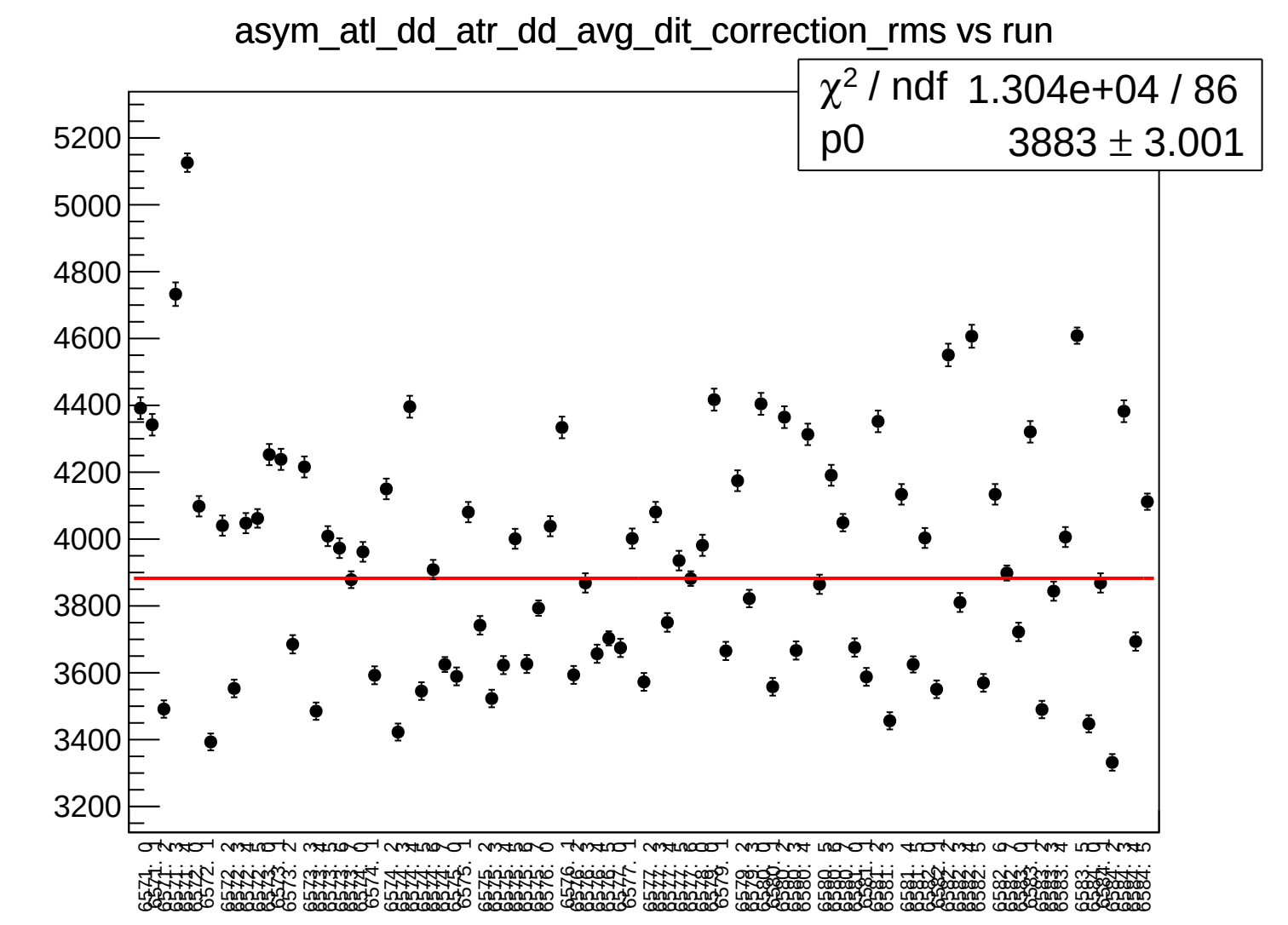

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 97.02 / 86
p0 289.3 ± 1515
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 40.86
Std Dev 52.27
3
2
1
0
−1
−2
−3

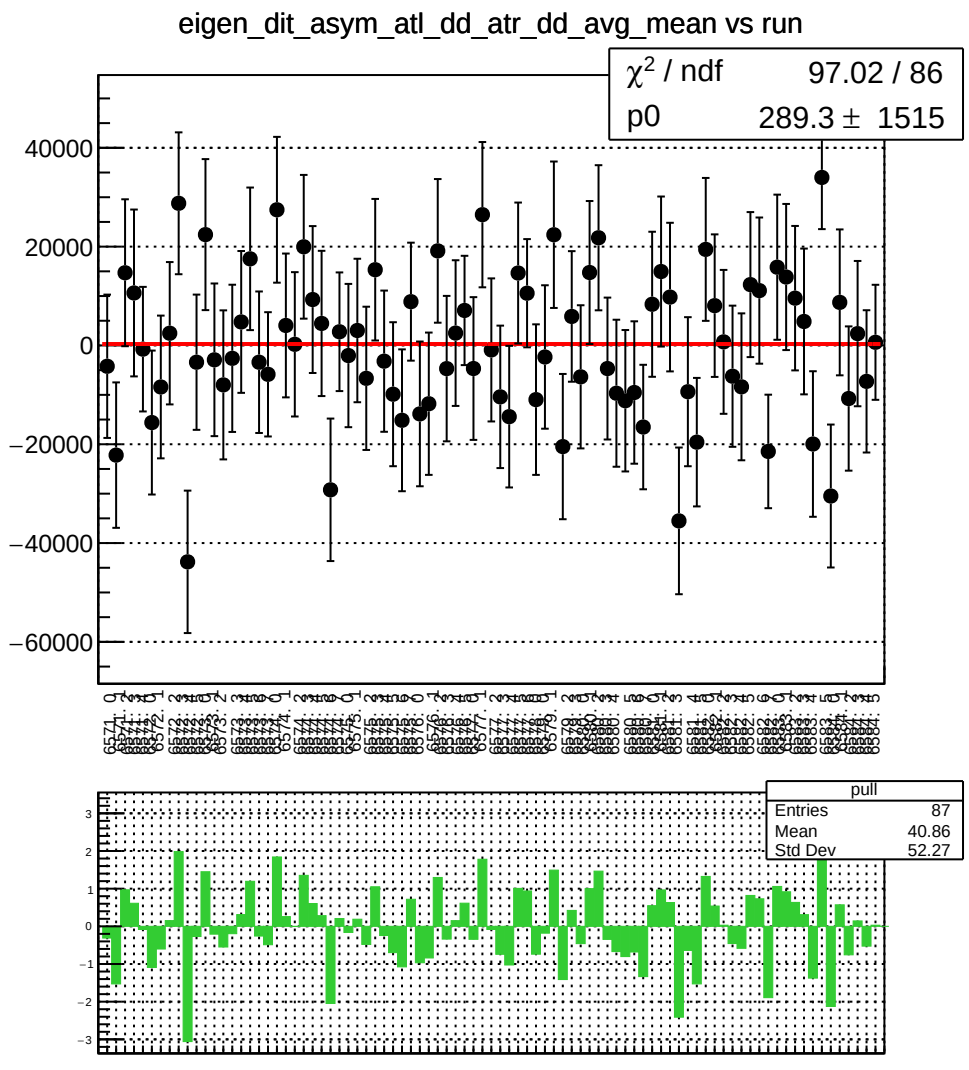

pull1D
Entries 87
Mean −0.008909
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

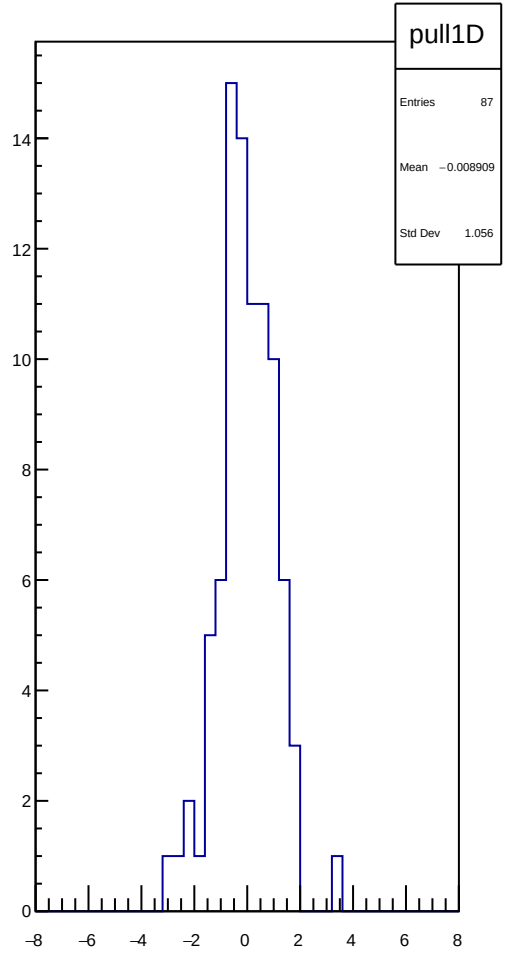

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1581 / 86
p0 1391 ± 1.071
1650
1600
1550
1500
1450
1400
1350

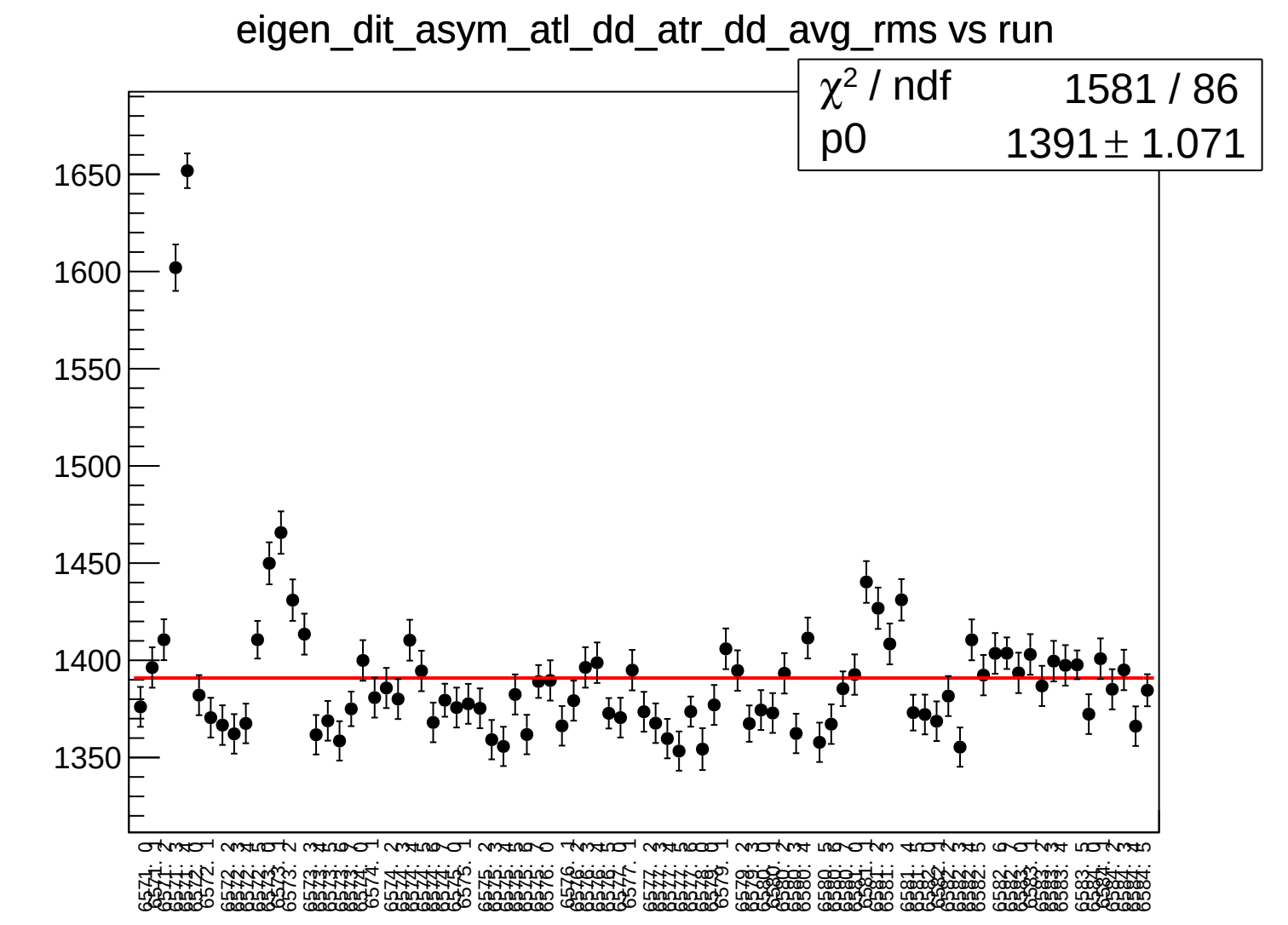

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.84 / 86
p0 −3538 ± 4244
150
100
50
0
−50
−100
pull
Entries 87
Mean −993.9
Std Dev 0
3
2
1
0
−1
−2

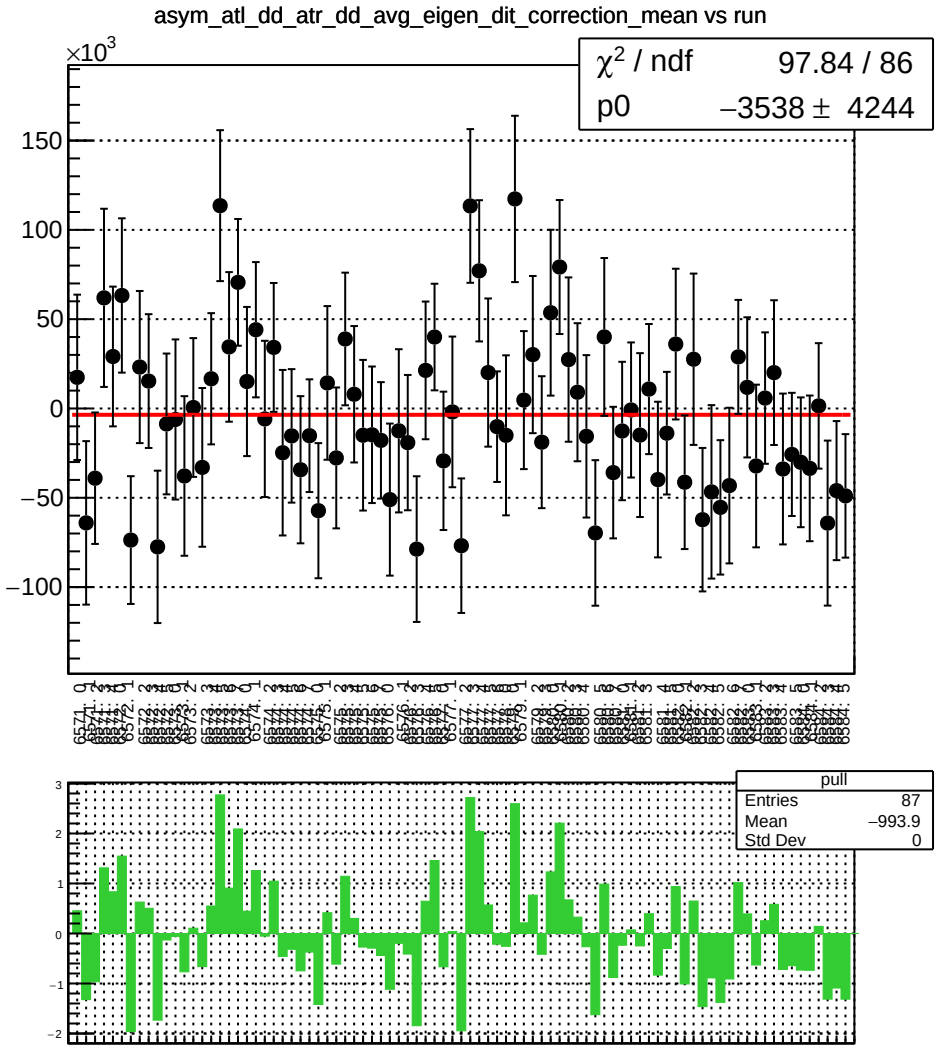

pull1D
Entries 87
Mean 0.004307
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

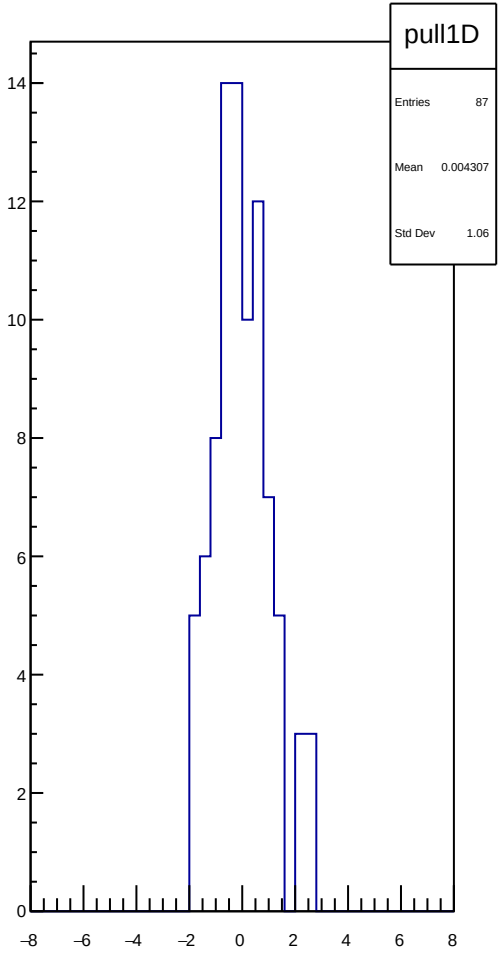

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.304e+04 / 86
p0 3883 ± 3.001
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

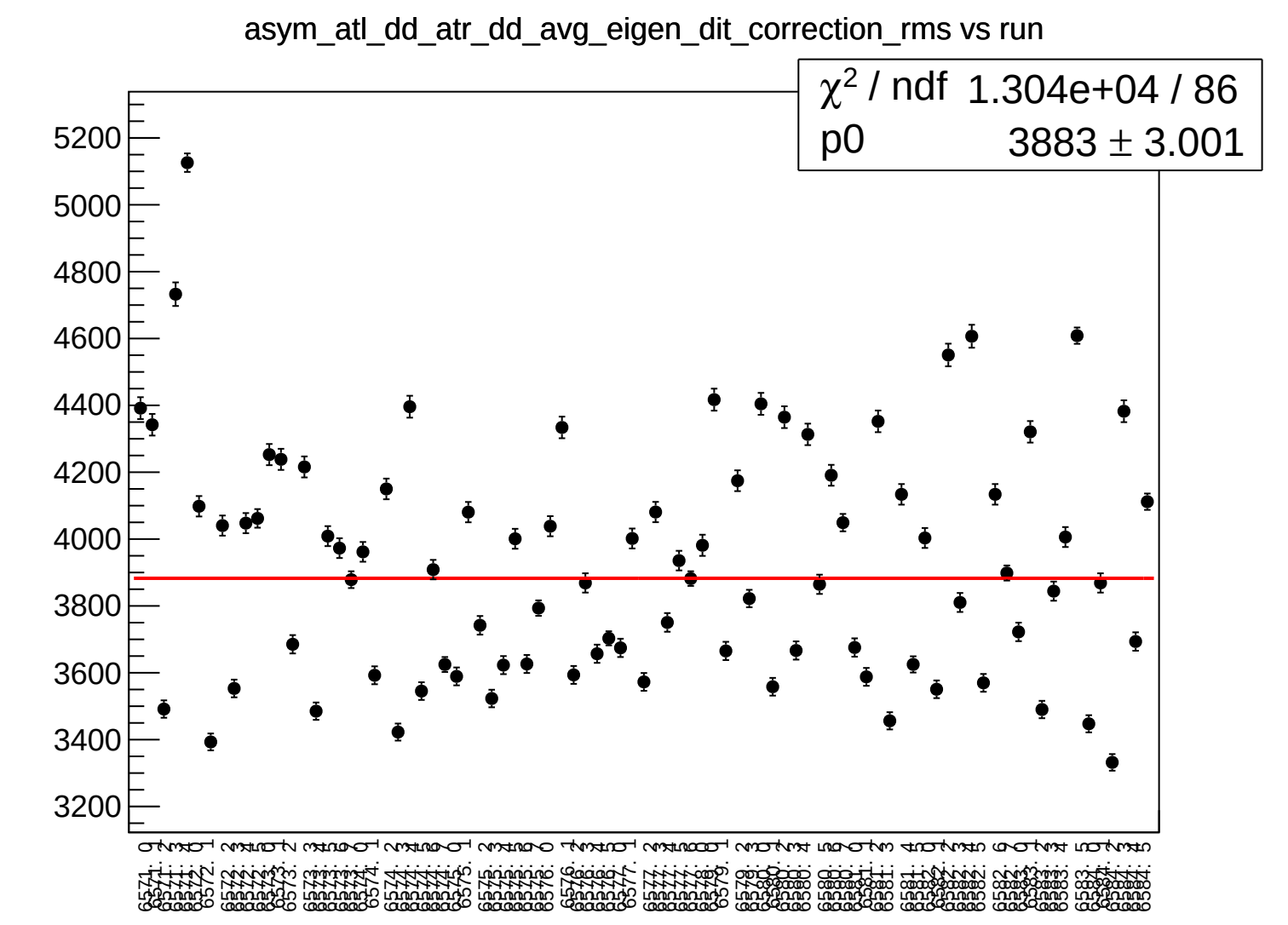

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 97.02 / 86
p0 289.3 ± 1515
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 40.86
Std Dev 52.27
3
2
1
0
−1
−2
−3

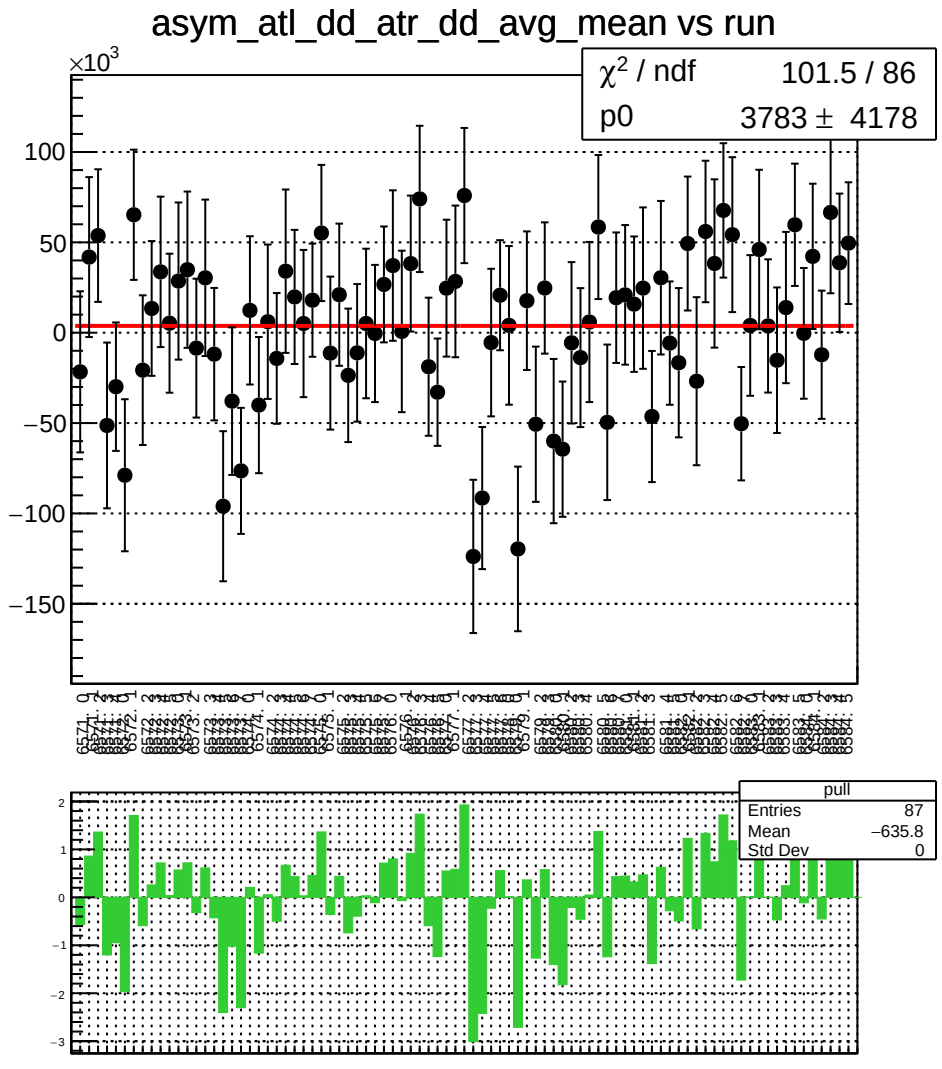

pull1D
Entries 87
Mean −0.008909
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

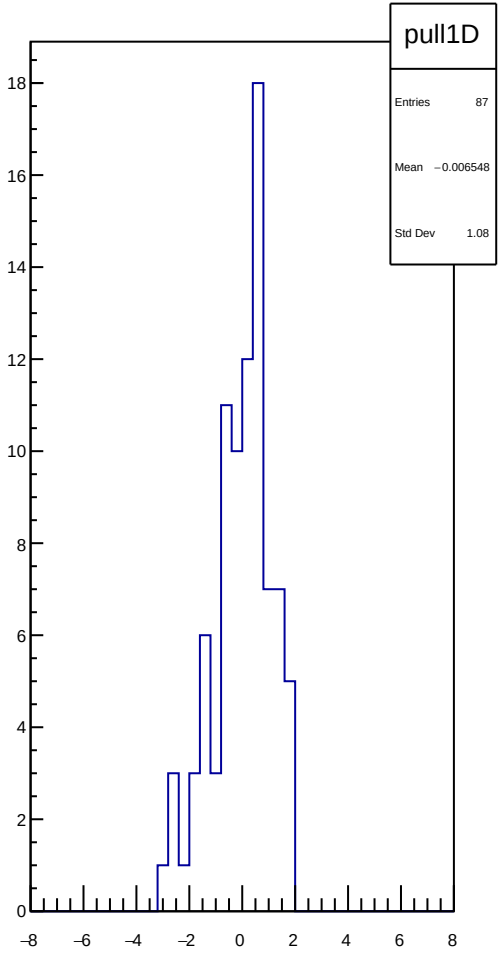

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1581 / 86
p0 1391 ± 1.071
1650
1600
1550
1500
1450
1400
1350

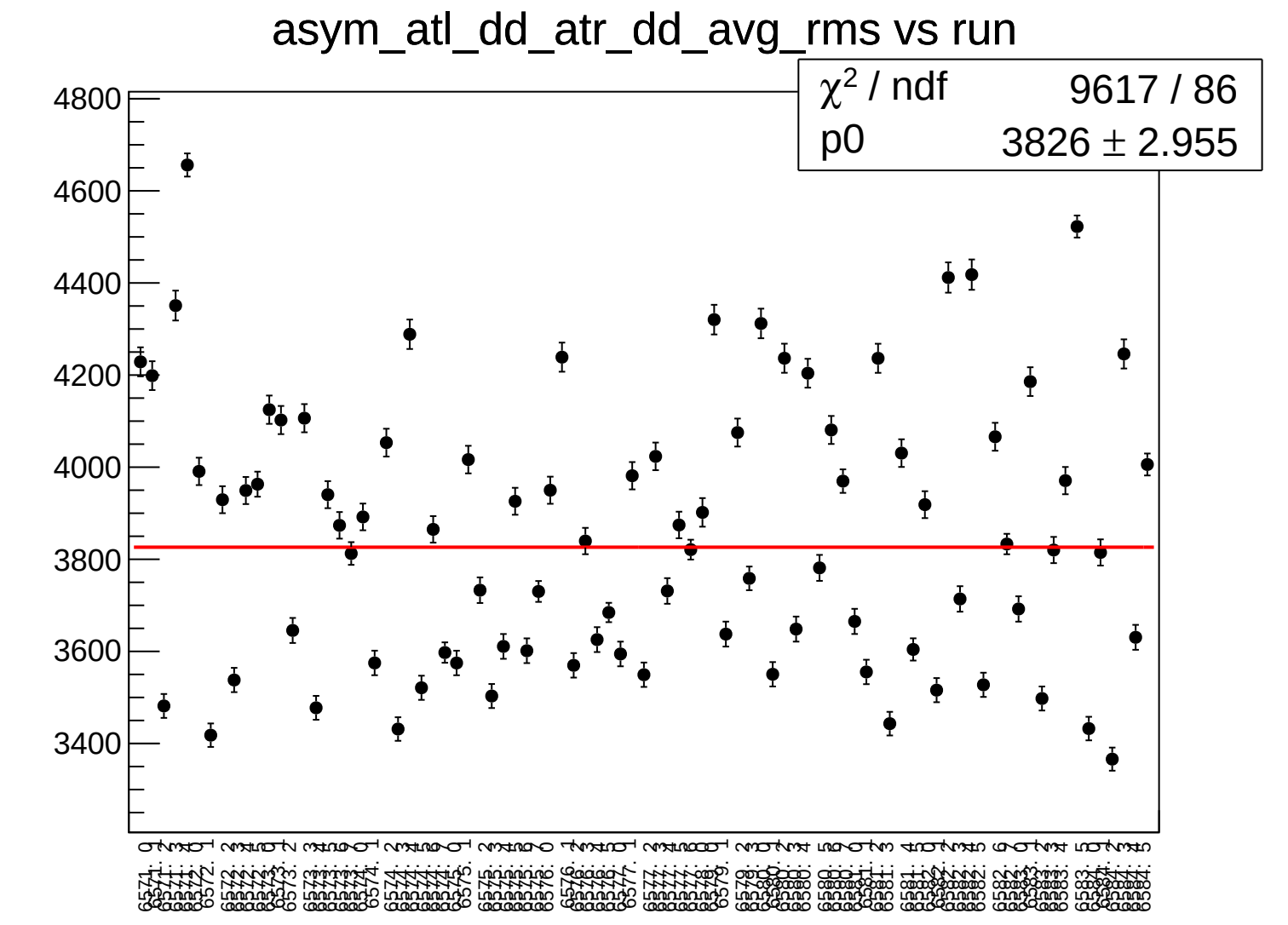

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.84 / 86
p0 −3538 ± 4244
150
100
50
0
−50
−100
pull
Entries 87
Mean −993.9
Std Dev 0
3
2
1
0
−1
−2

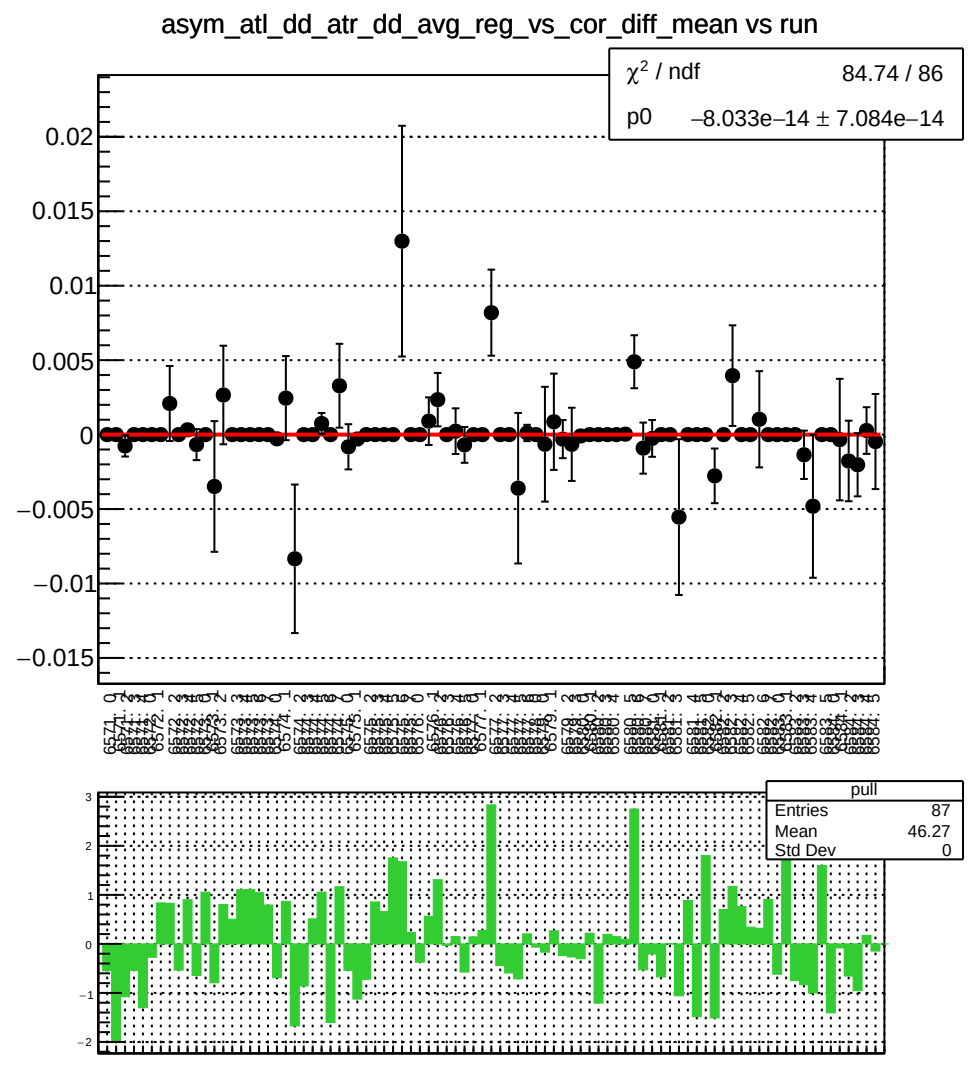

pull1D
Entries 87
Mean 0.004307
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

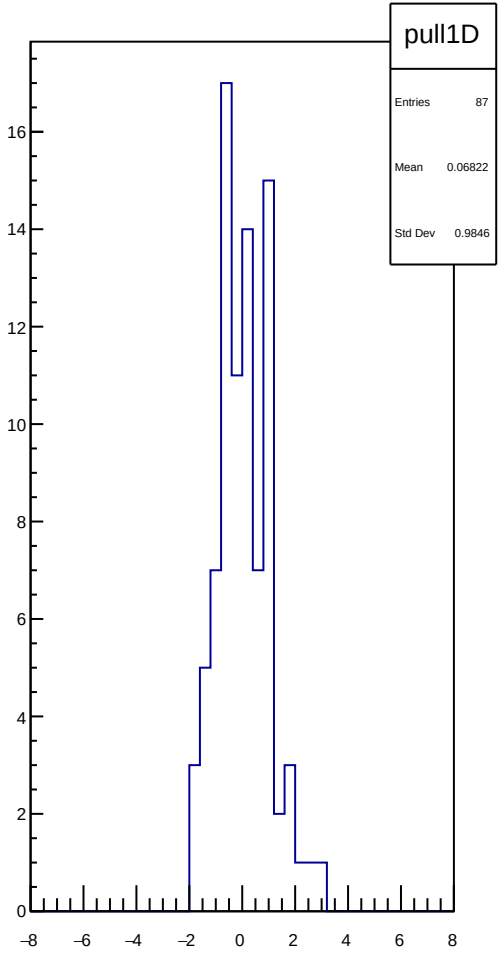

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.304e+04 / 86
p0 3883 ± 3.001
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

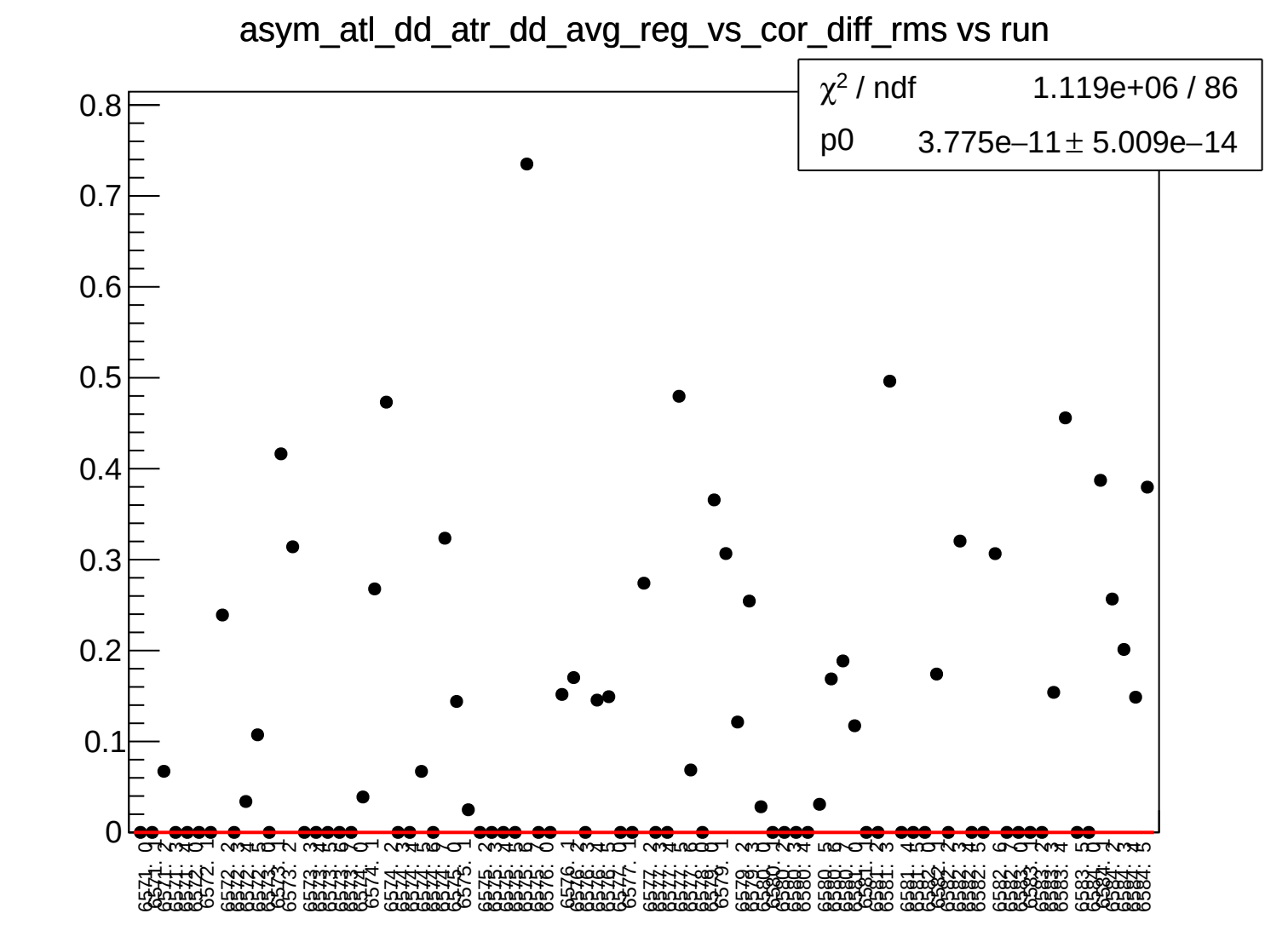

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 101.5 / 86
p0 3783 ± 4178
×10³
pull
Entries 87
Mean −635.8
Std Dev 0

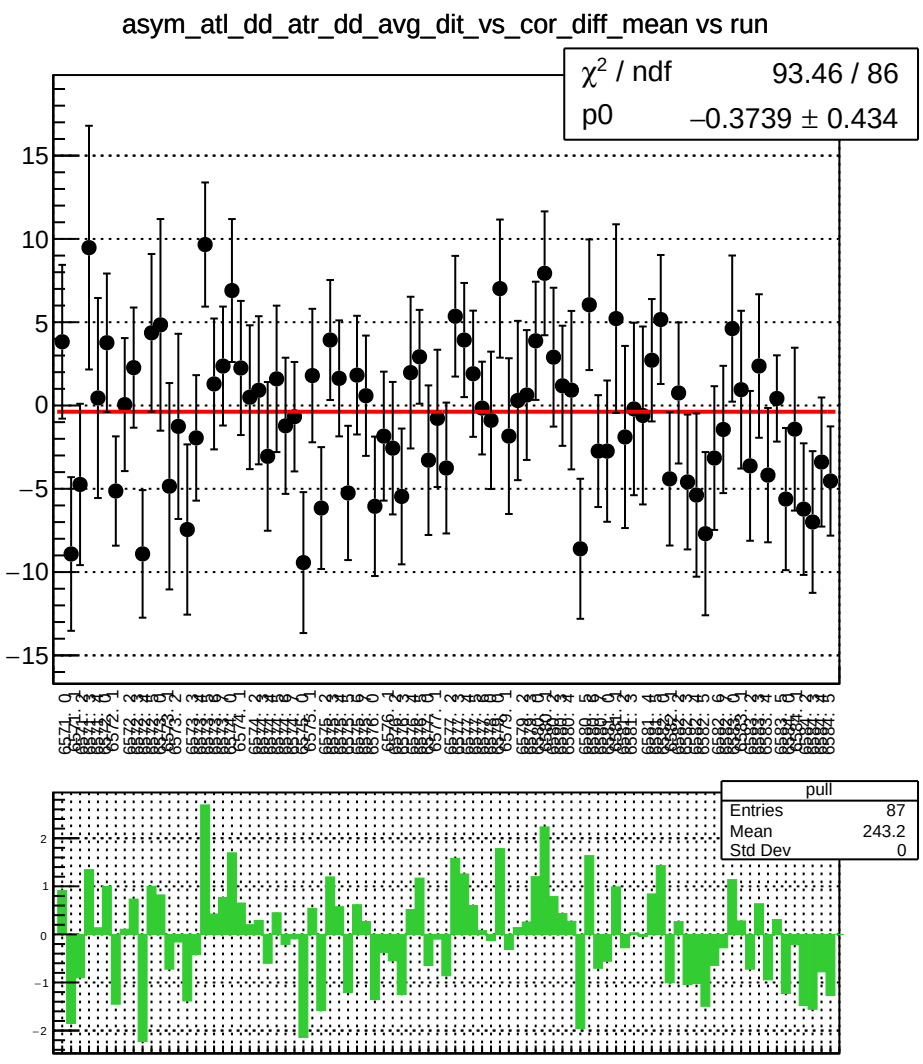

pull1D
Entries 87
Mean −0.006548
Std Dev 1.08

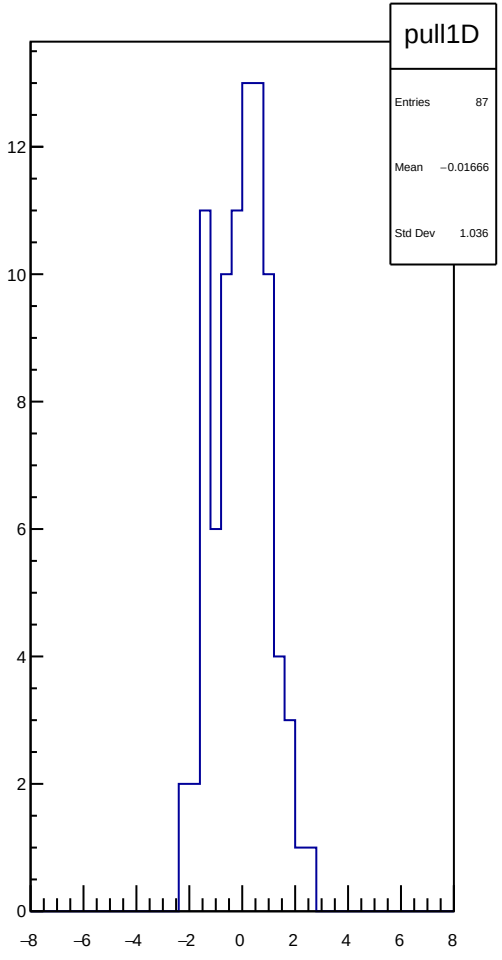

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 9617 / 86
p0 3826 ± 2.955
4800
4600
4400
4200
4000
3800
3600
3400

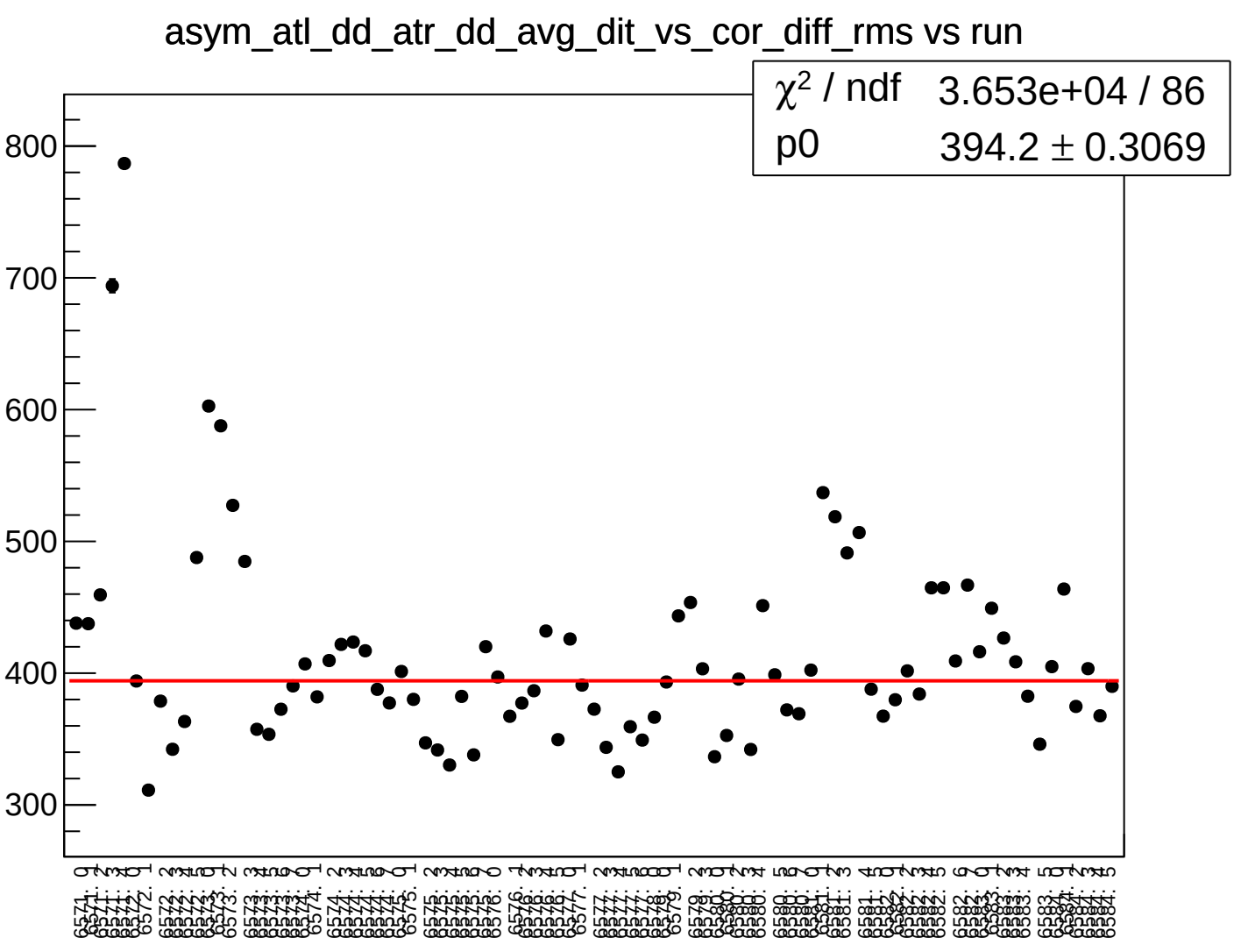

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.74 / 86
p0 −8.033e−14 ± 7.084e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 87
Mean 46.27
Std Dev 0
3
2
1
0
−1
−2

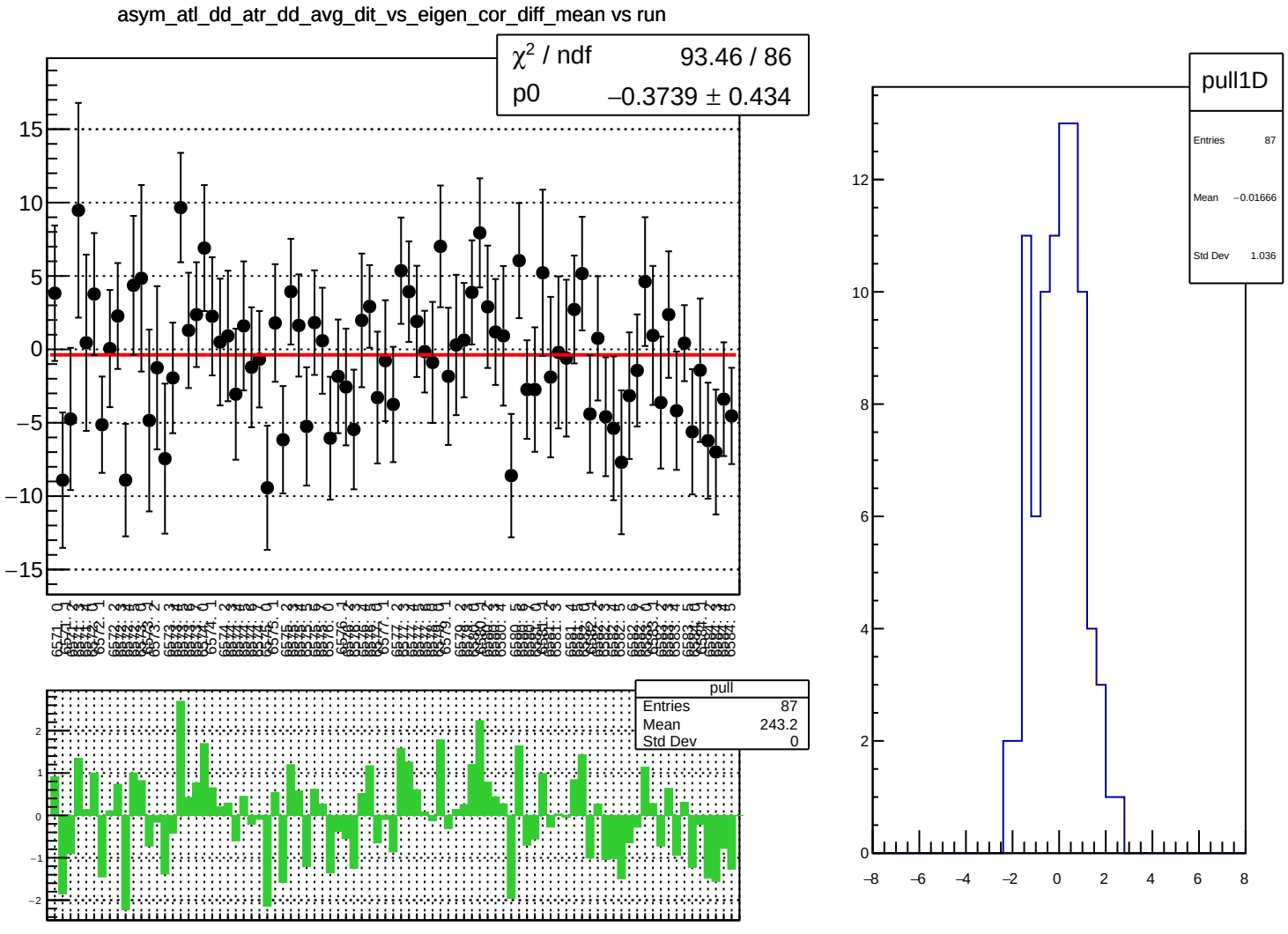

pull1D
Entries 87
Mean 0.06822
Std Dev 0.9846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

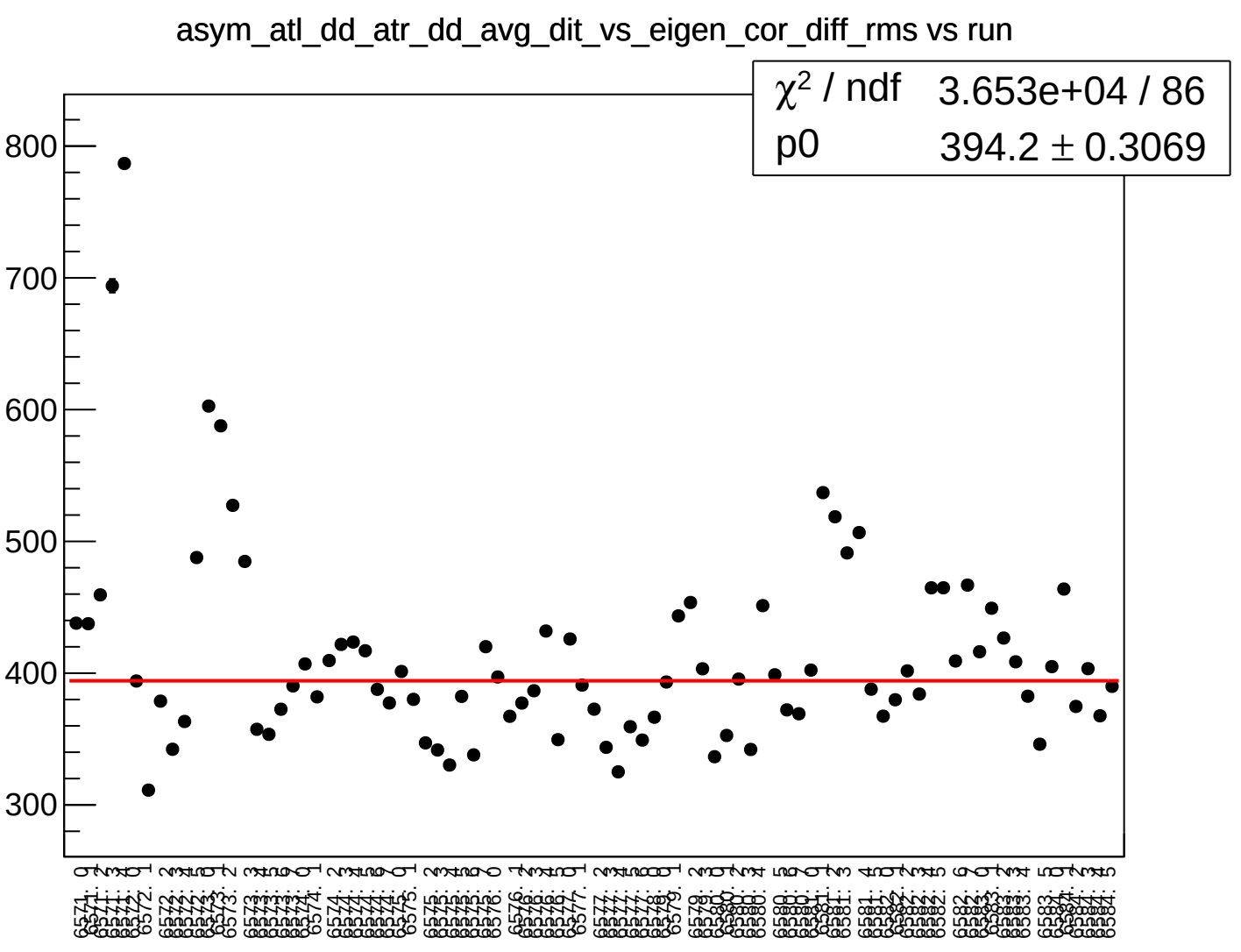

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.119e+06 / 86
p0 3.775e−11 ± 5.009e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

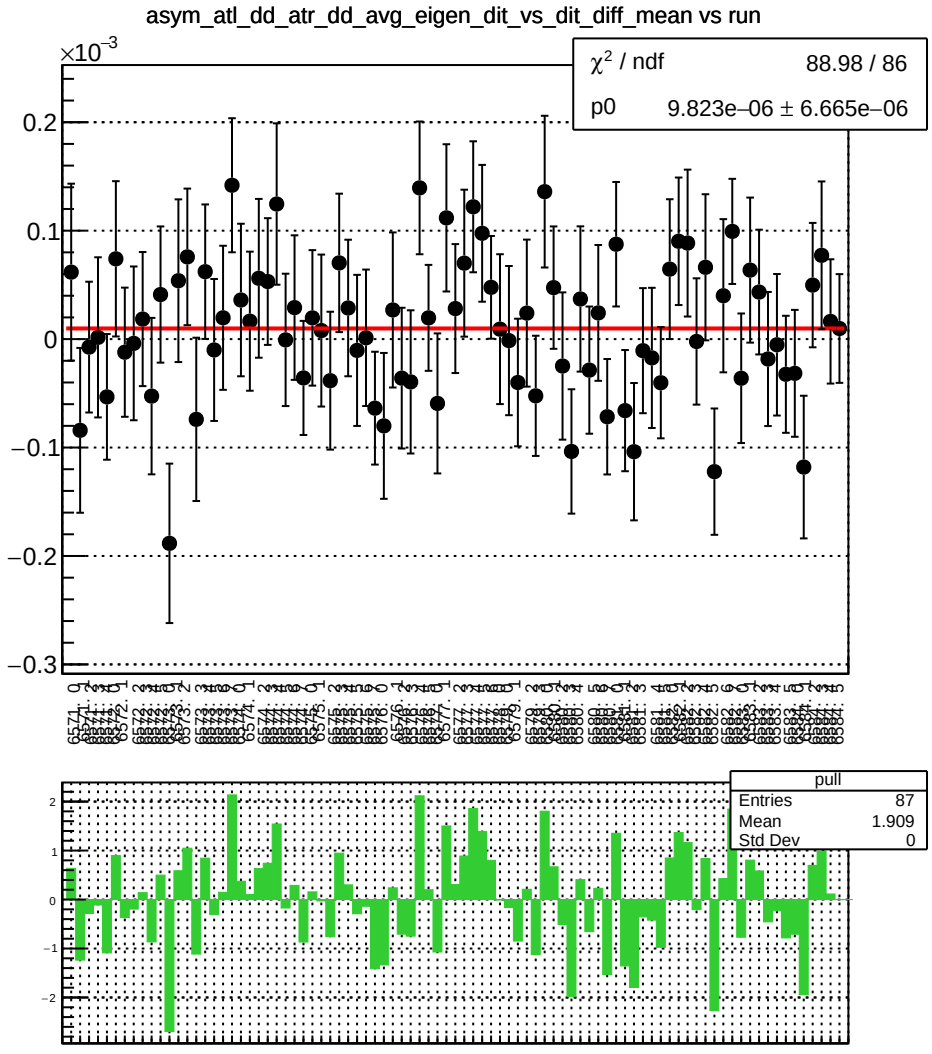

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0

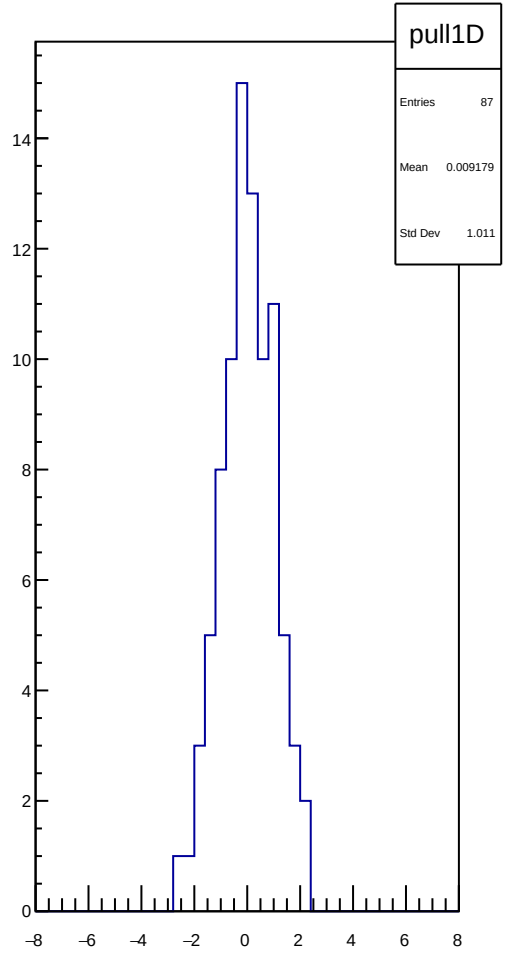

pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

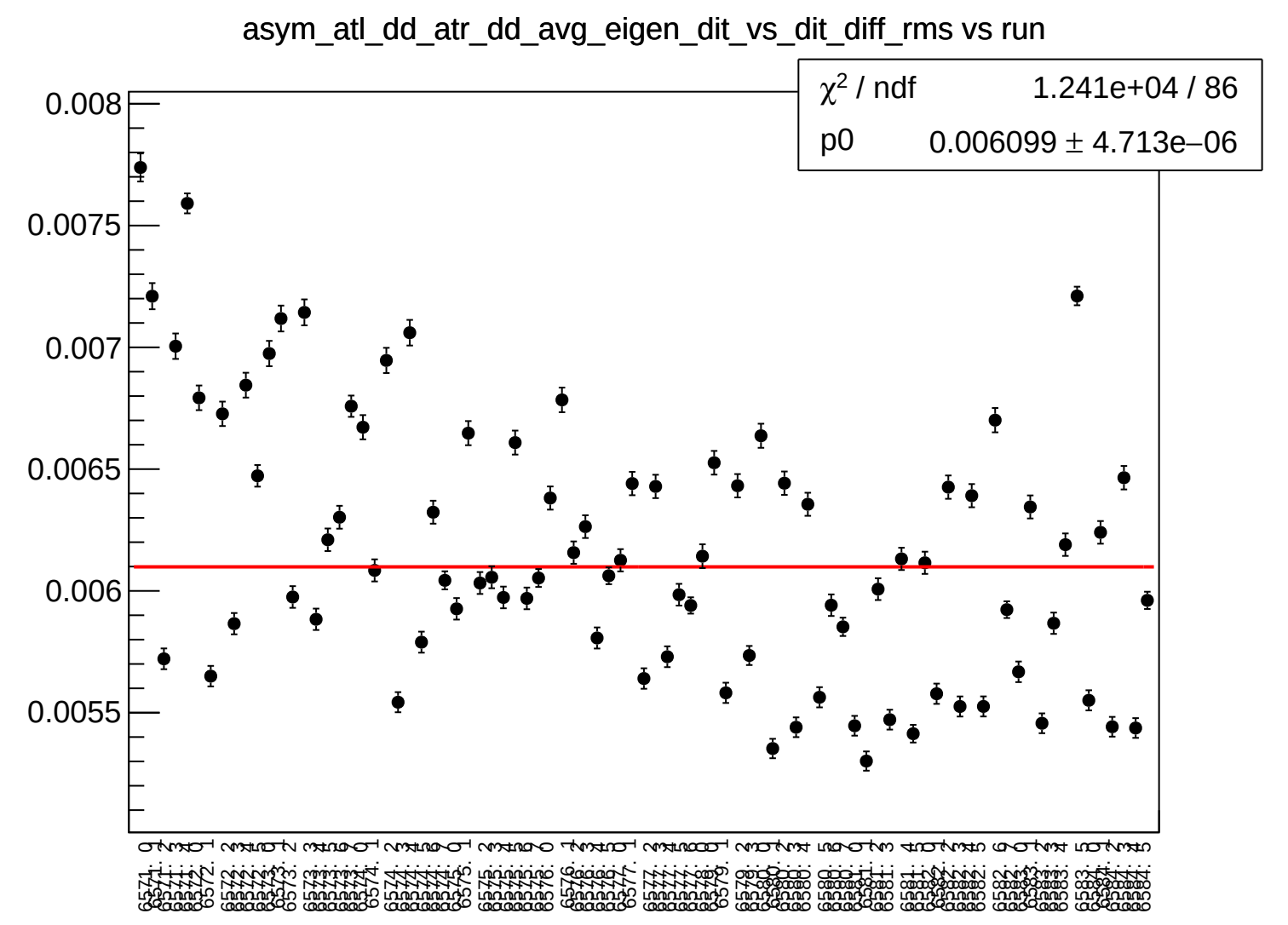

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

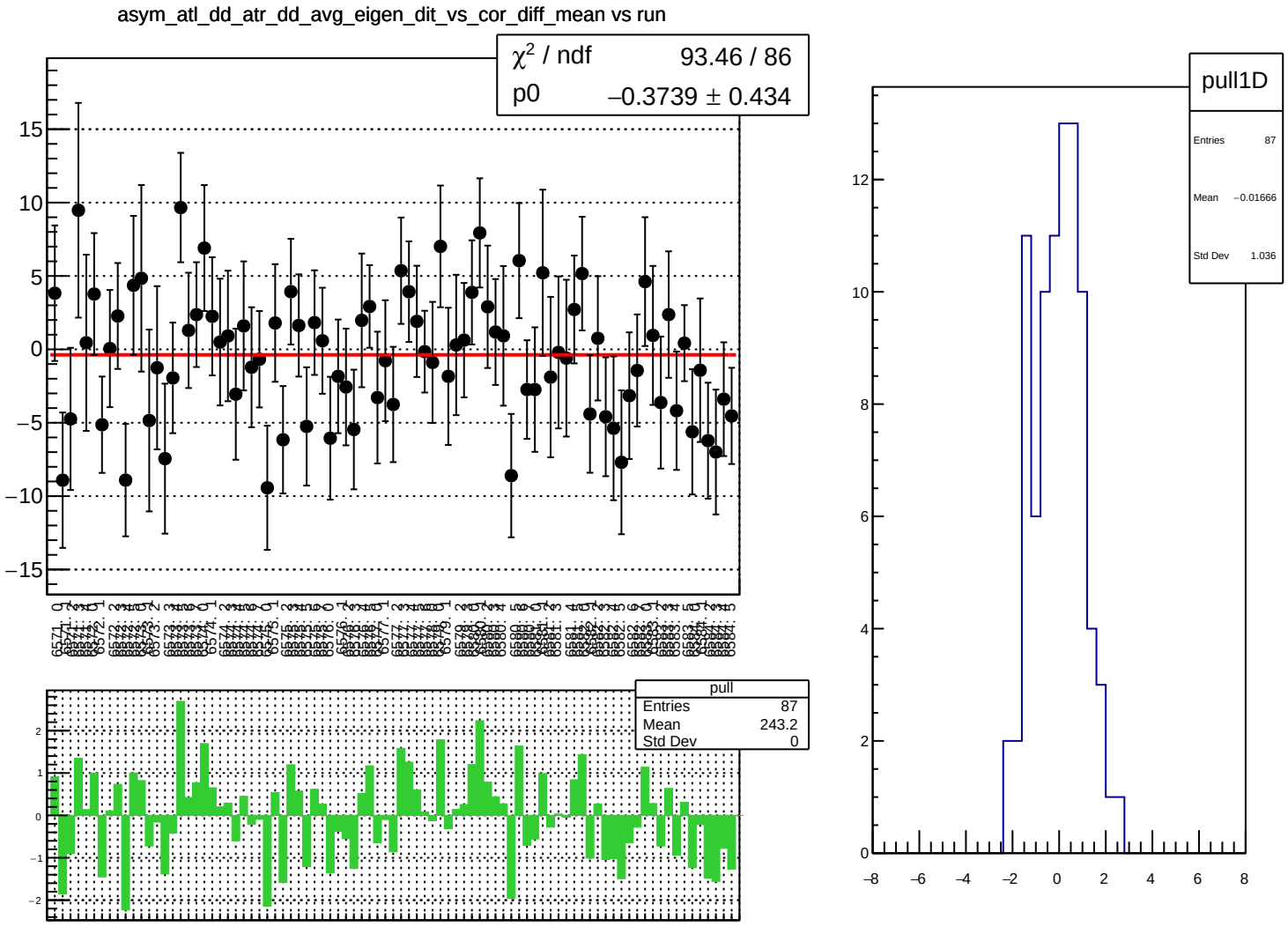

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0
pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

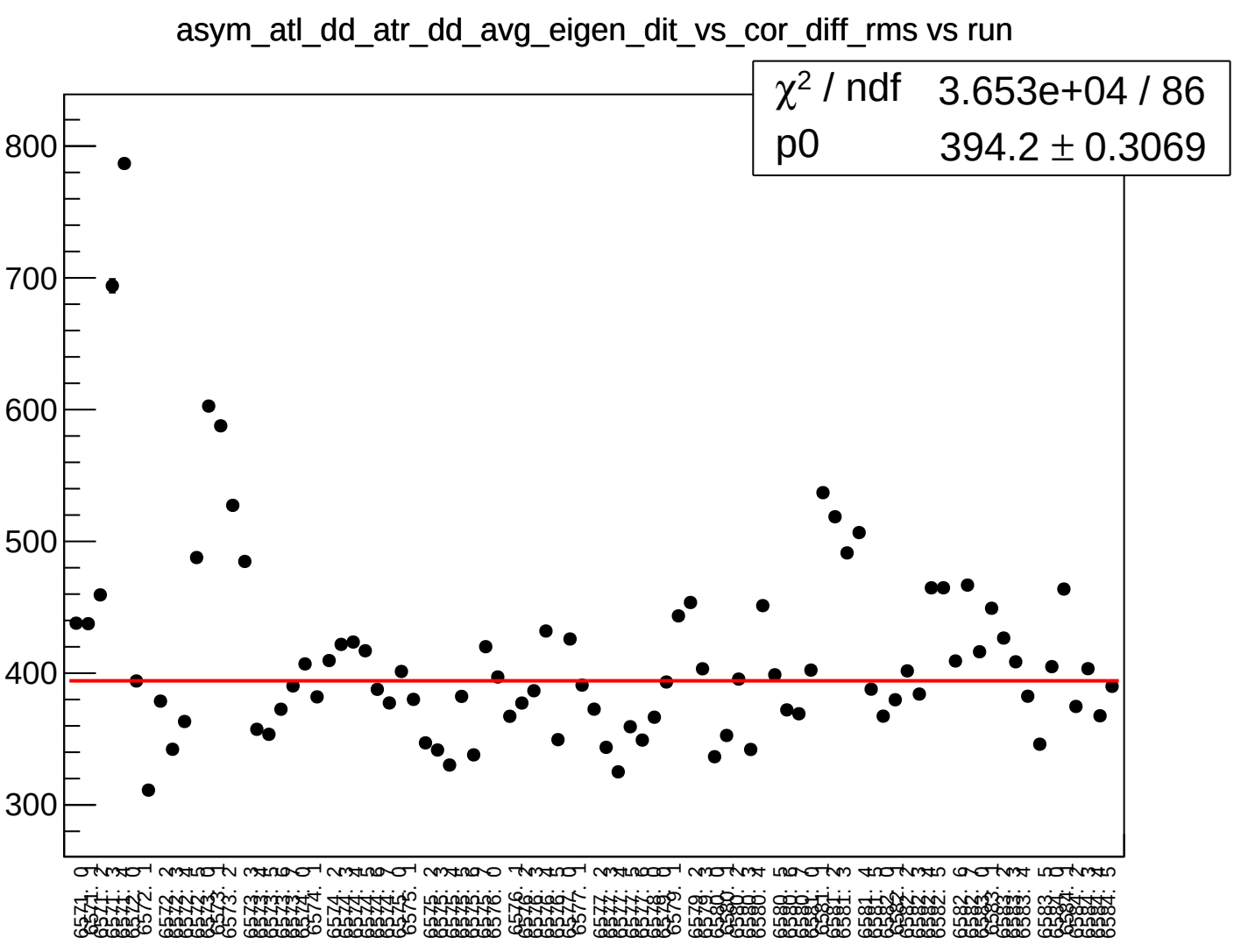

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

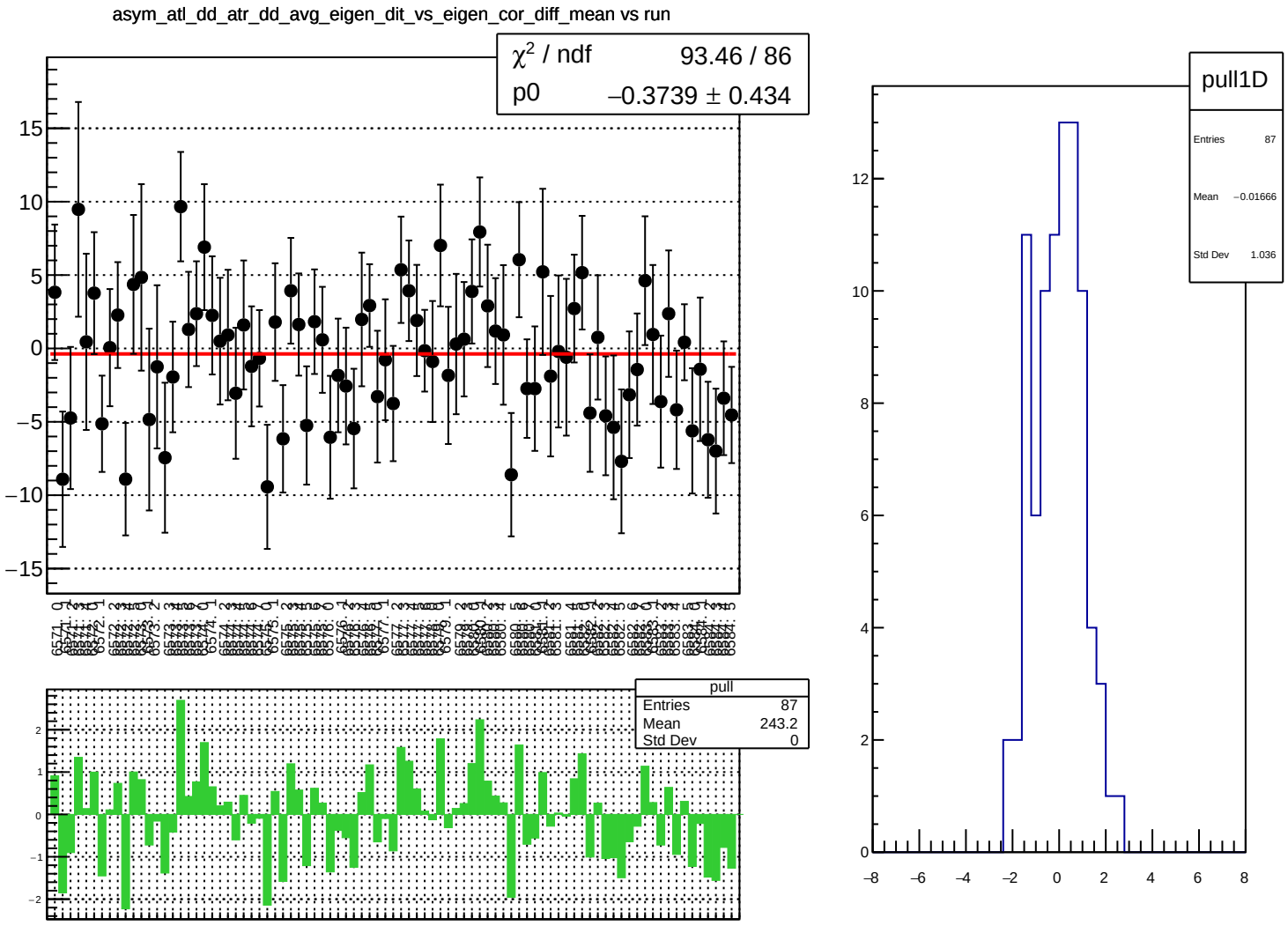

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.98 / 86
p0 9.823e−06 ± 6.665e−06
pull
Entries 87
Mean 1.909
Std Dev 0

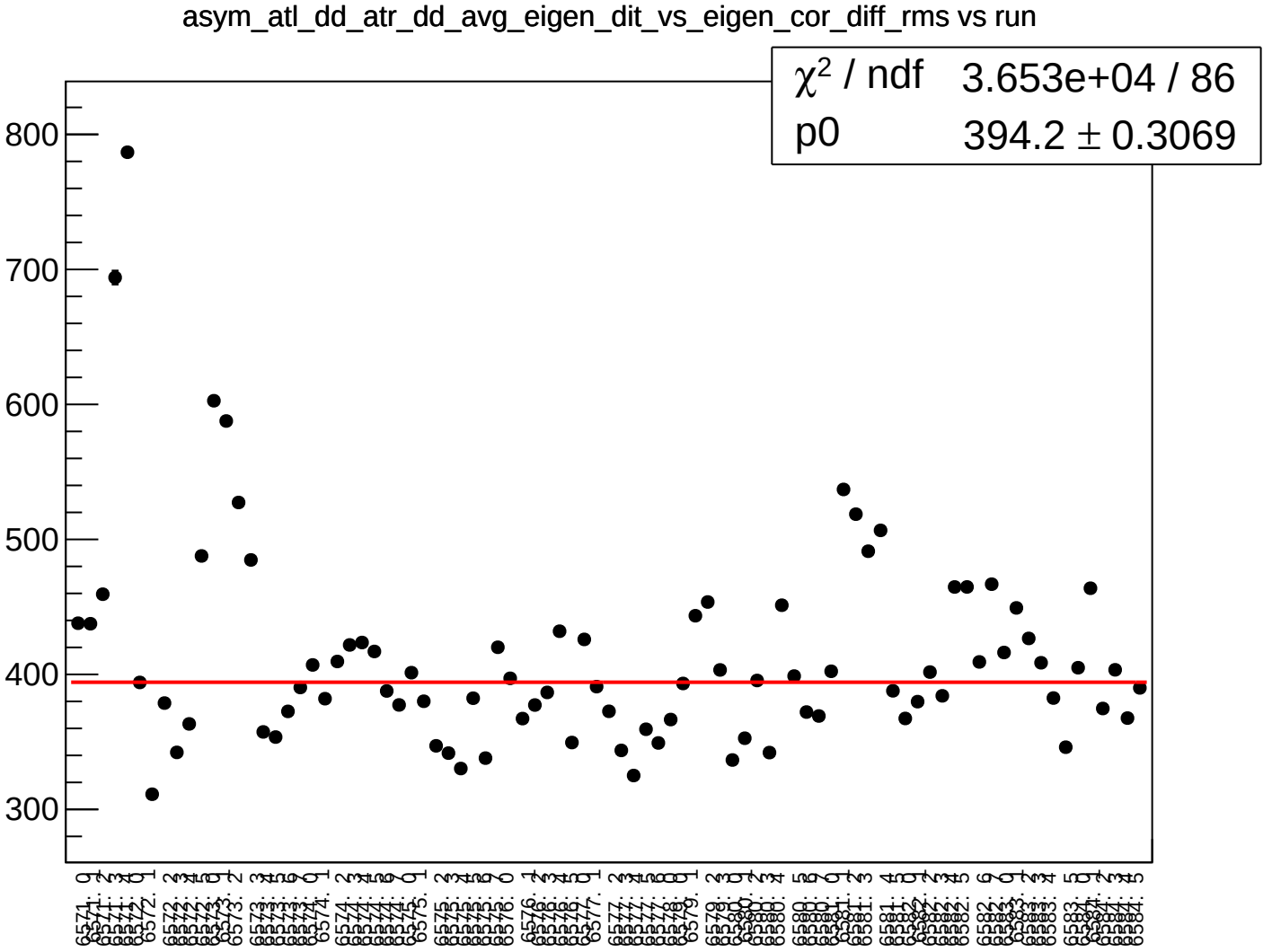

pull1D
Entries 87
Mean 0.009179
Std Dev 1.011

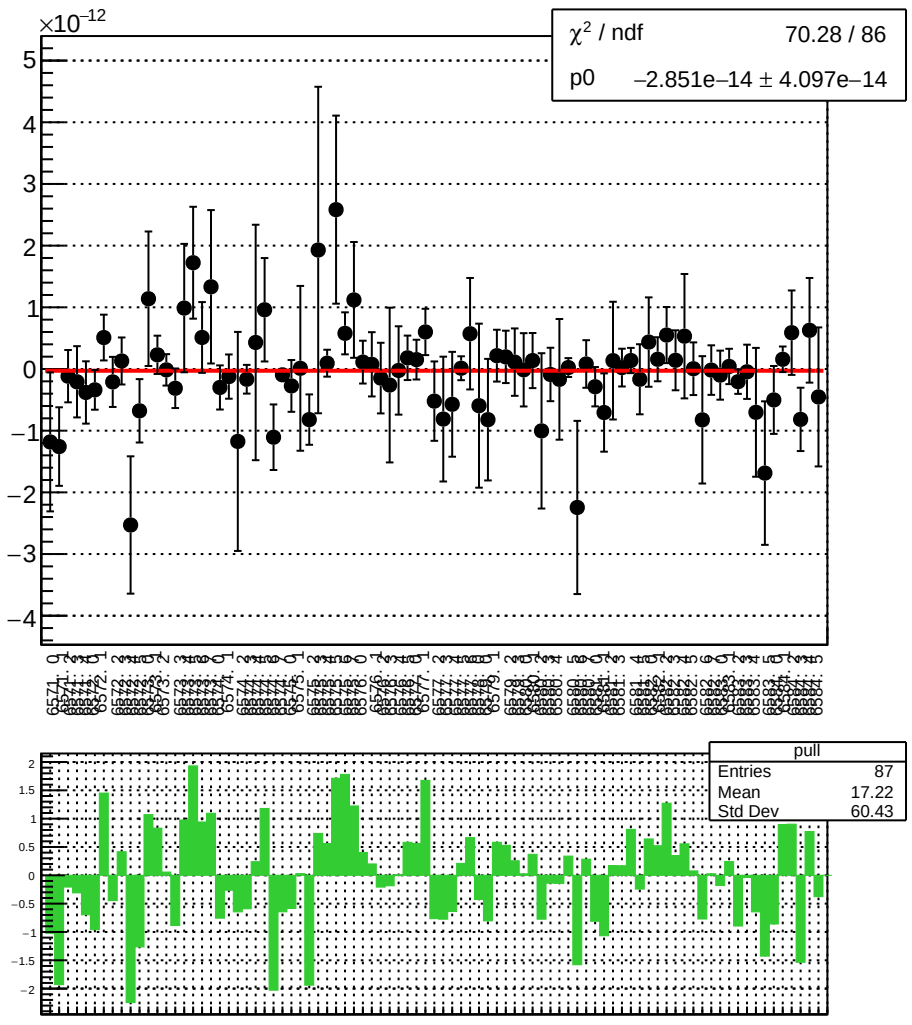

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.241e+04 / 86
p0 0.006099 ± 4.713e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

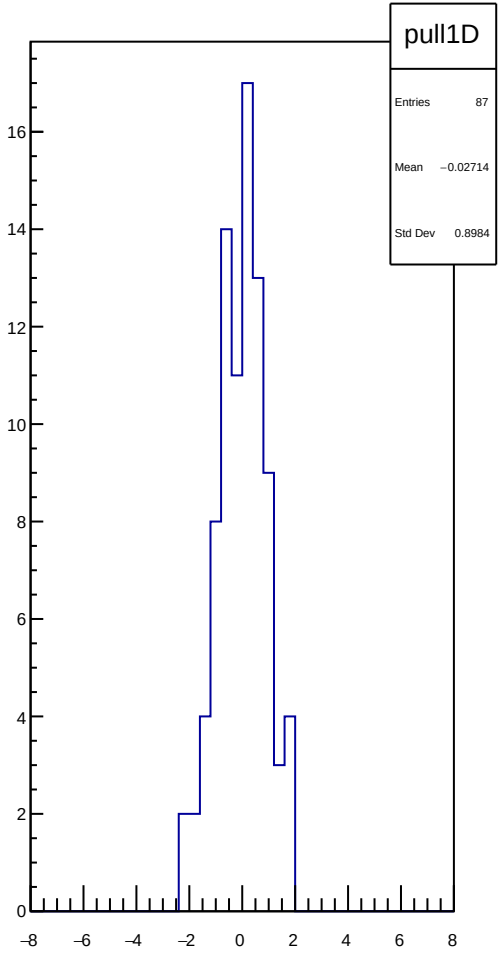

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0
pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

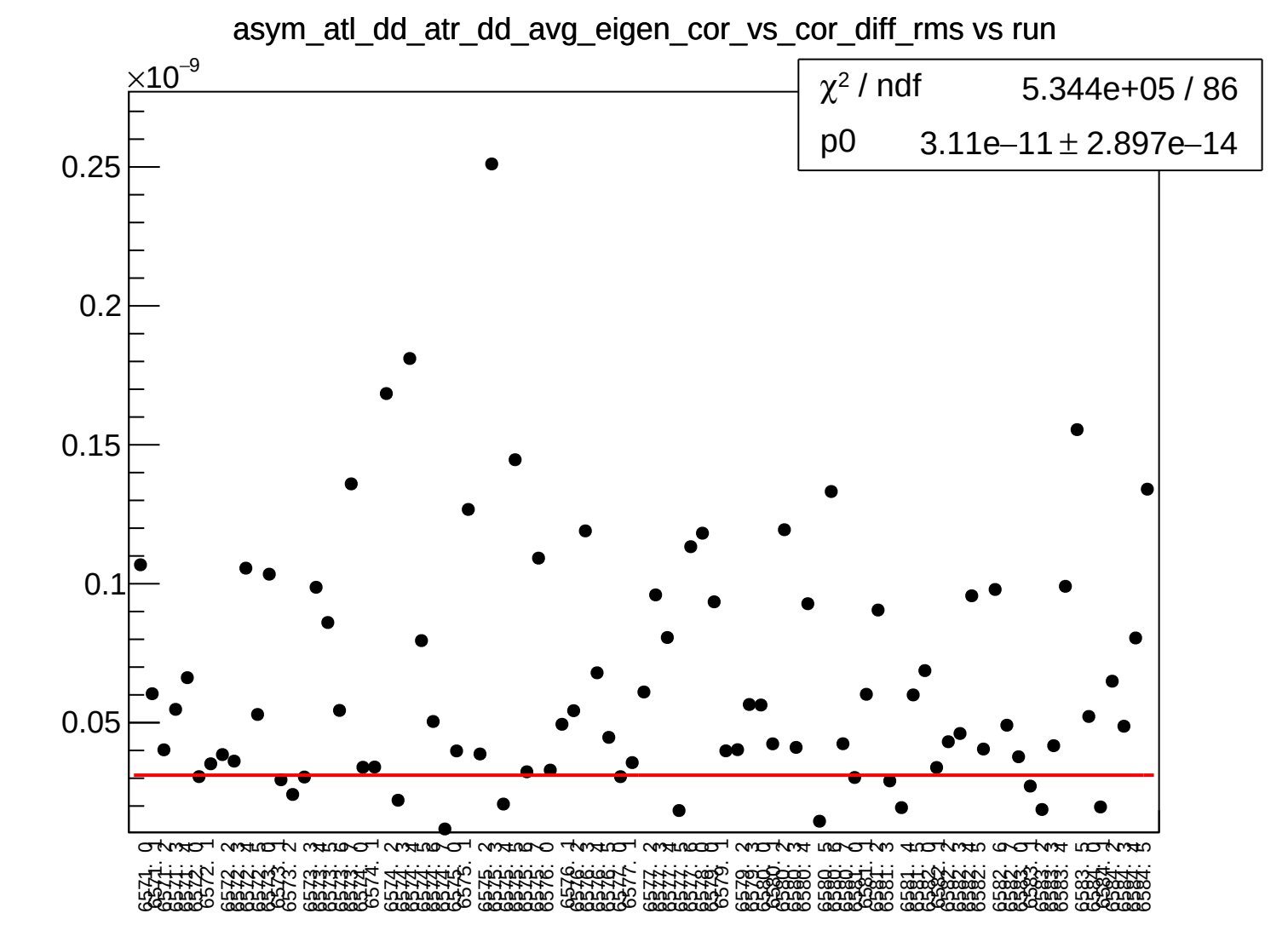

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

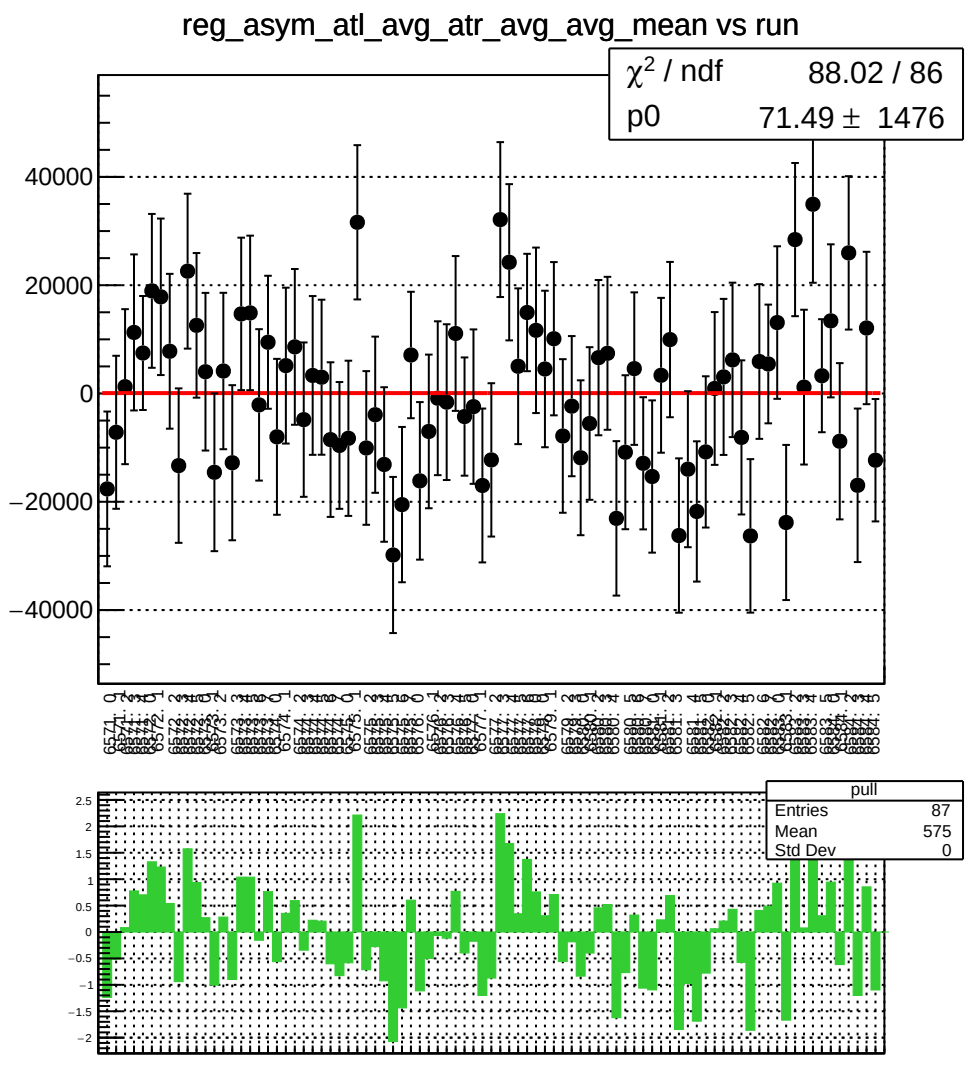

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0
pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

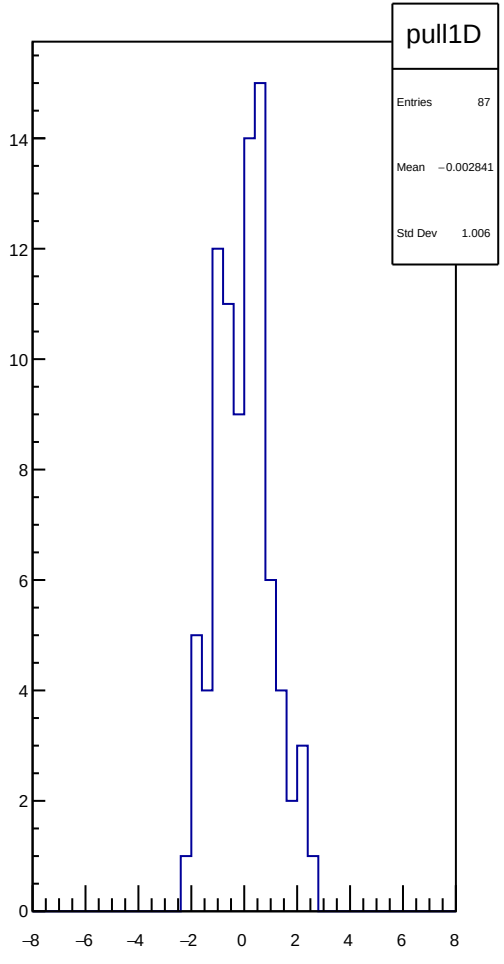

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

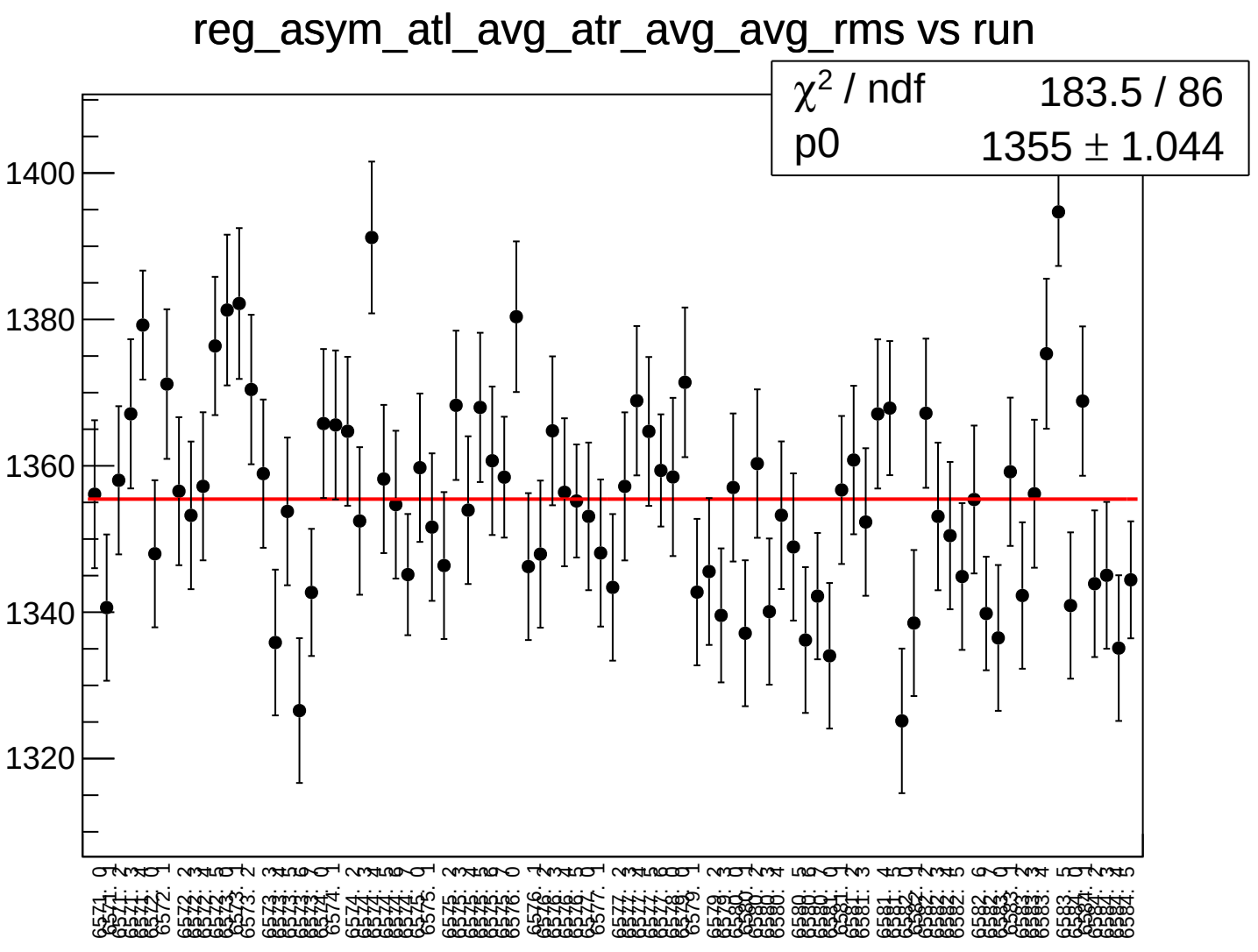

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.28 / 86
p0 −2.851e−14 ± 4.097e−14
pull
Entries 87
Mean 17.22
Std Dev 60.43

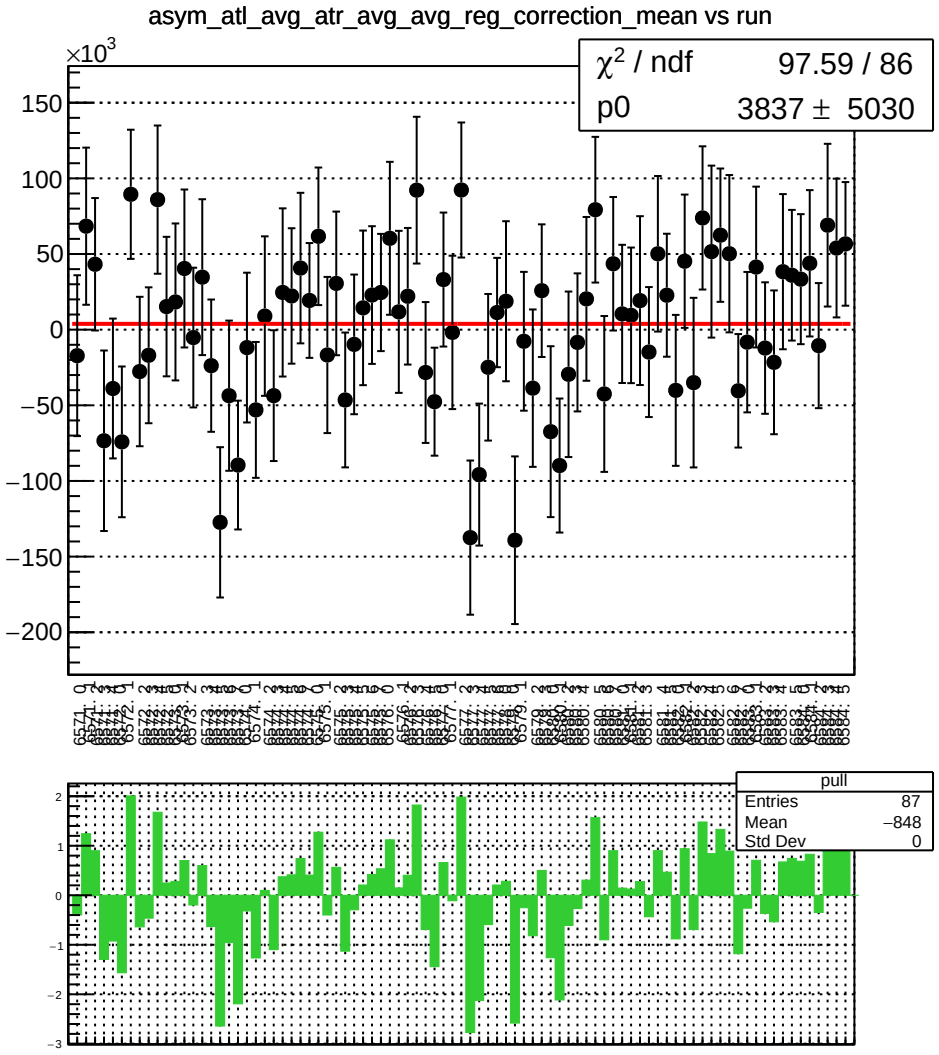

pull1D
Entries 87
Mean −0.02714
Std Dev 0.8984

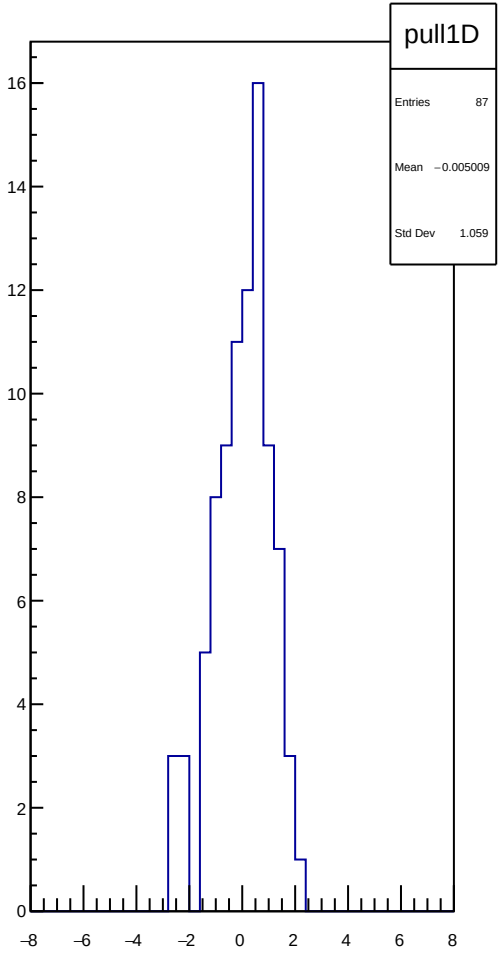

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.344e+05 / 86
p0 3.11e−11 ± 2.897e−14
0.25
0.2
0.15
0.1
0.05

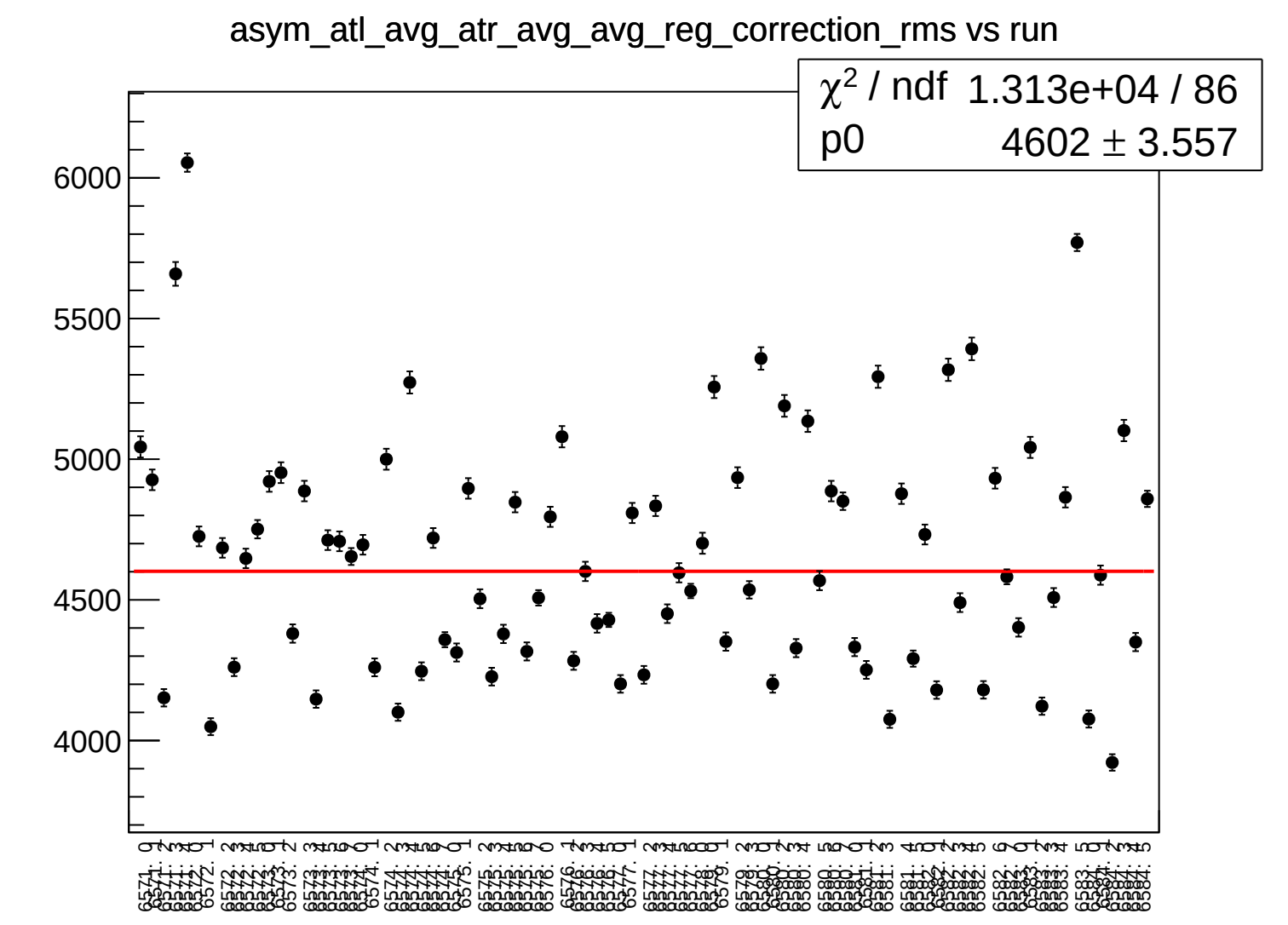

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 88.02 / 86
p0 71.49 ± 1476
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 575
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

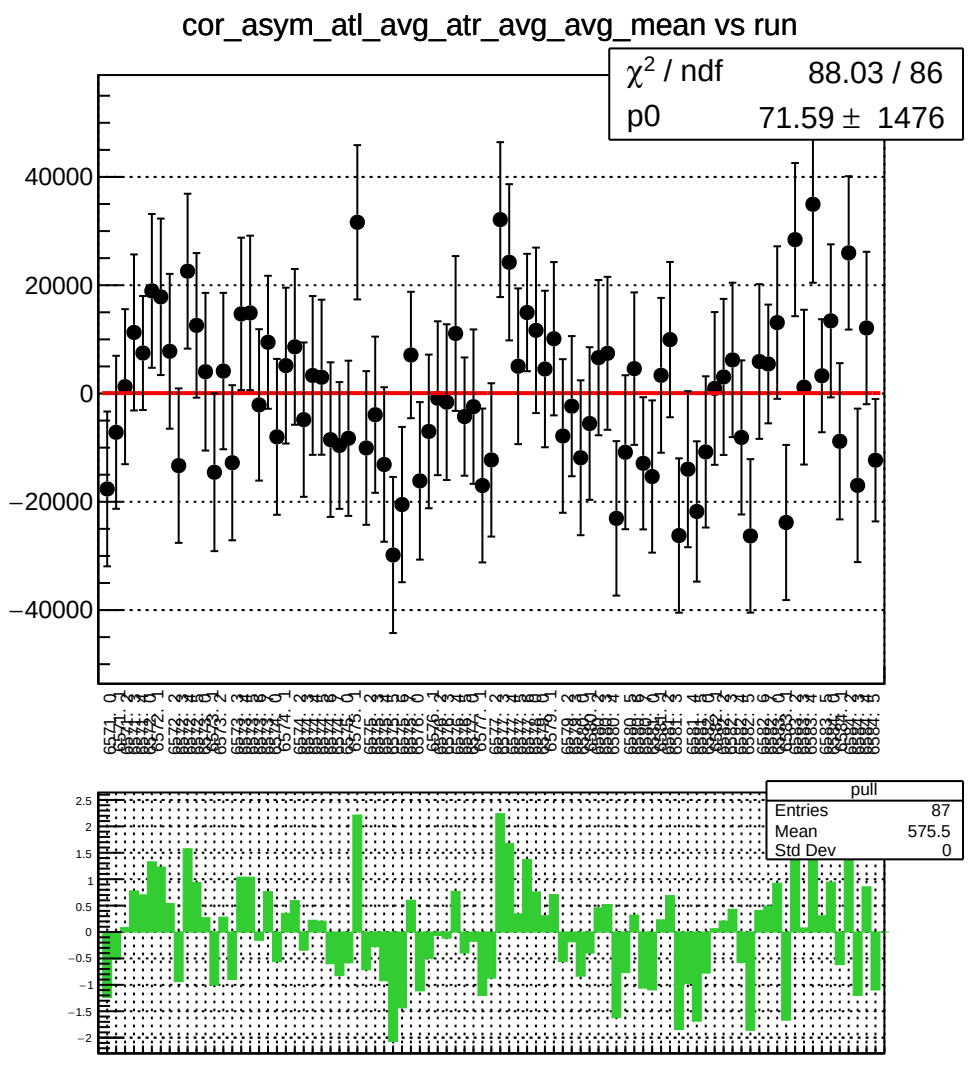

pull1D
Entries 87
Mean −0.002841
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

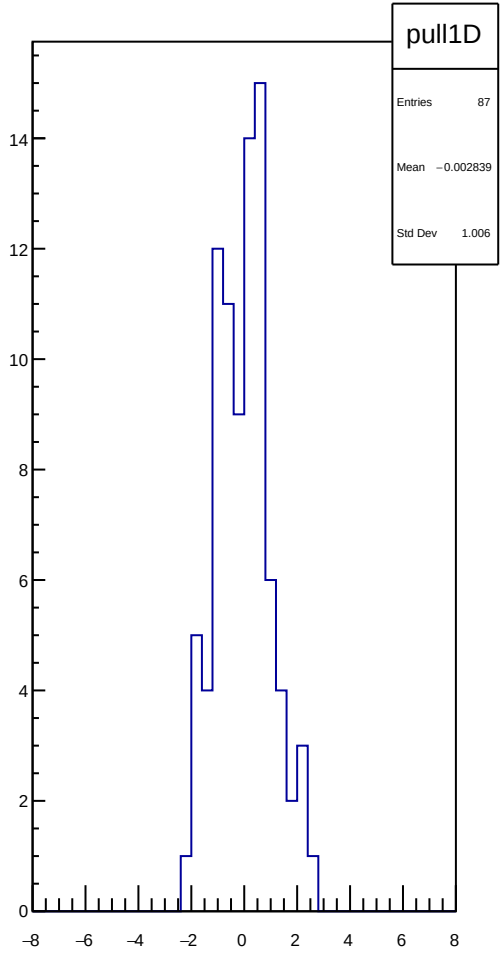

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 183.5 / 86
p0 1355 ± 1.044
1400
1380
1360
1340
1320

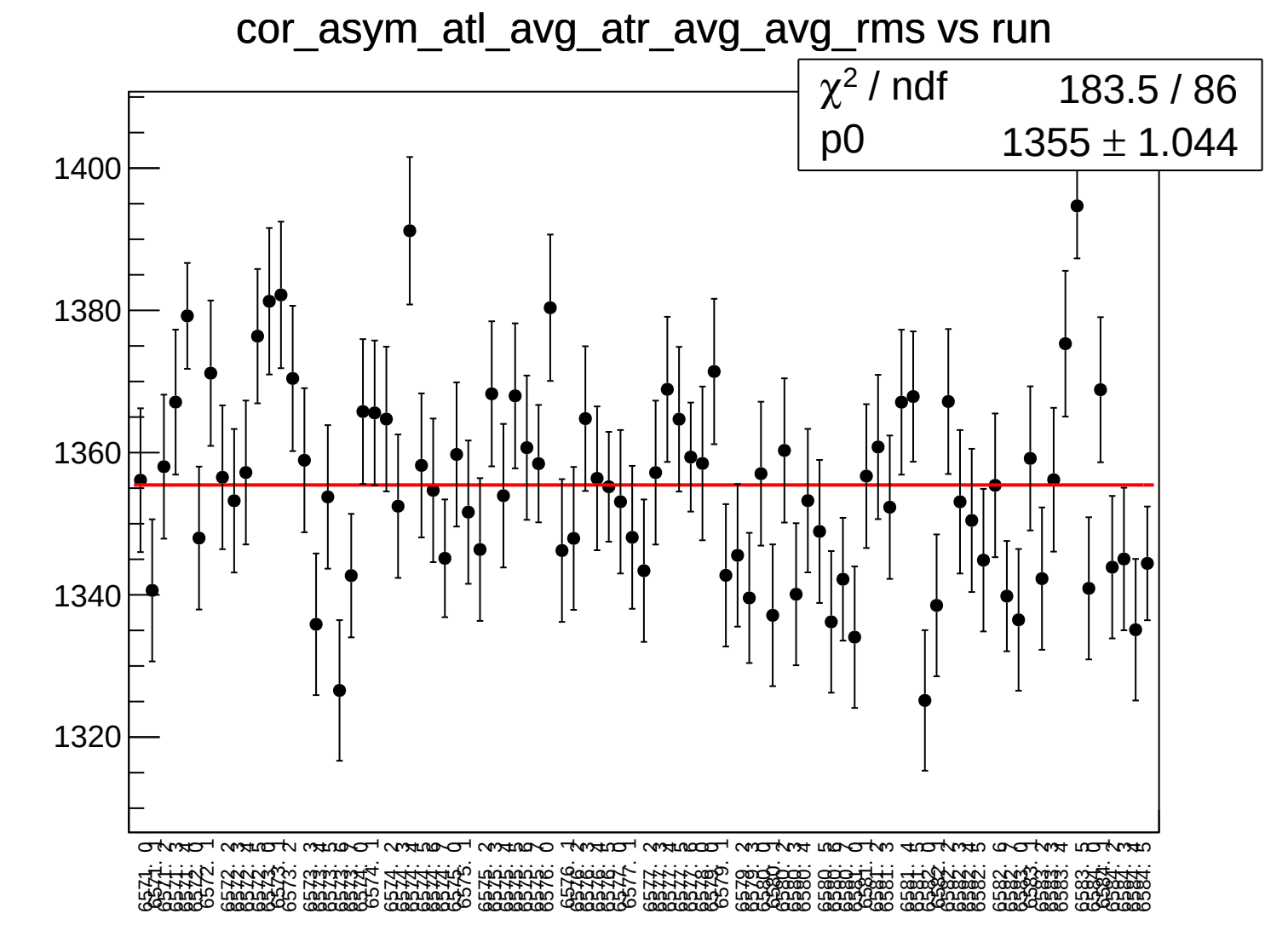

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.59 / 86
p0 3837 ± 5030
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −848
Std Dev 0
2
1
0
−1
−2
−3

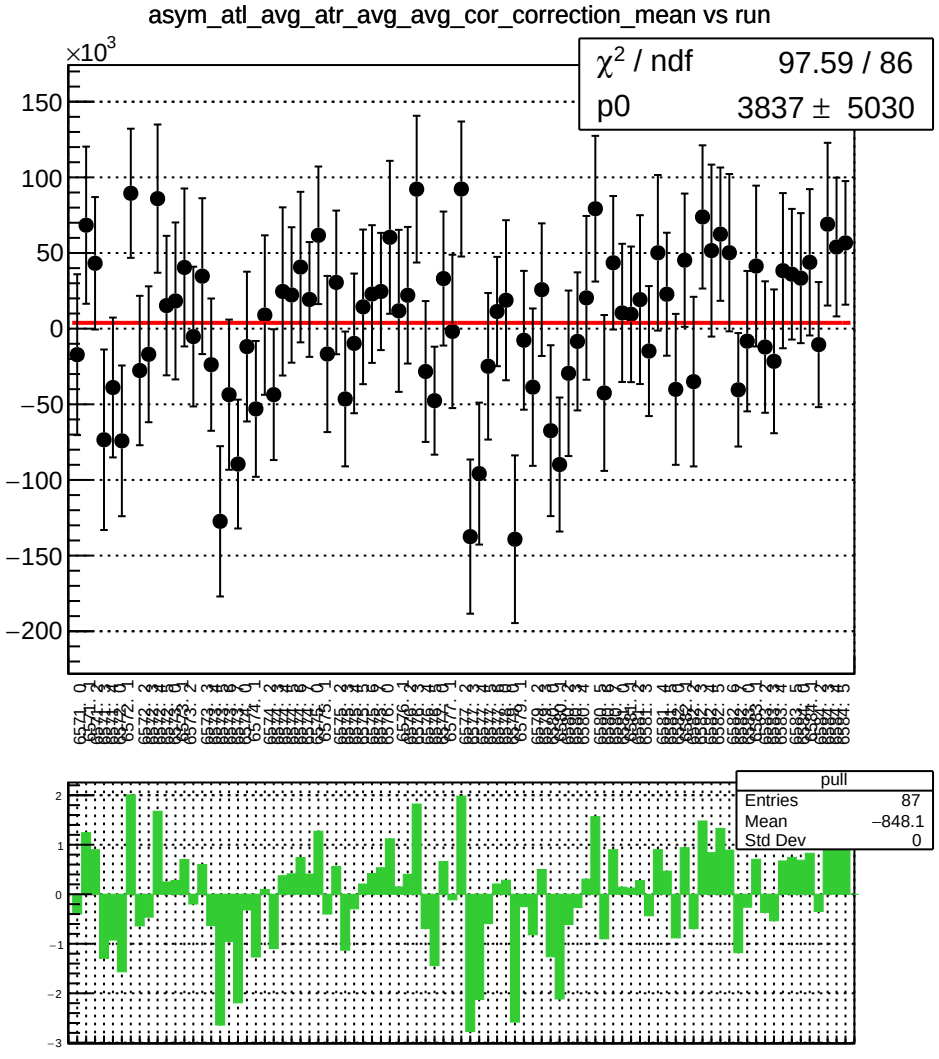

pull1D
Entries 87
Mean −0.005009
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

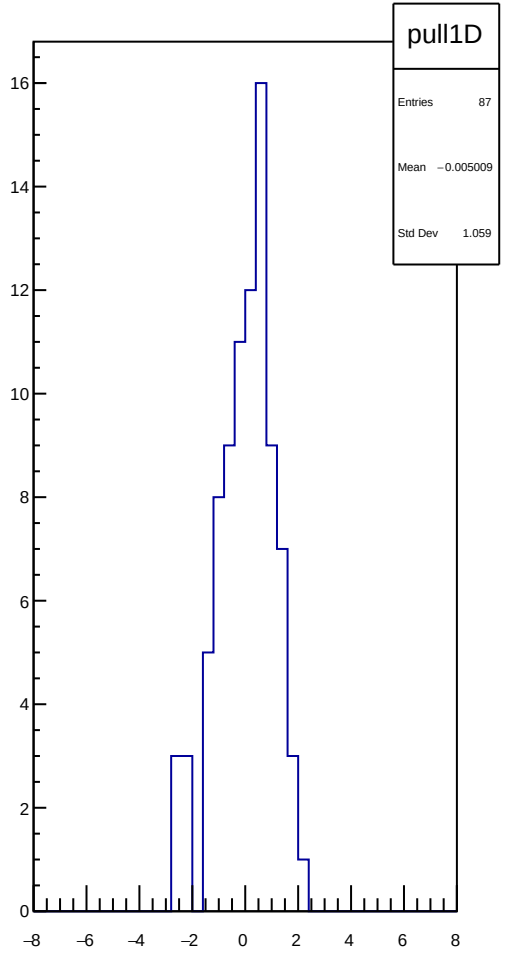

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.313e+04 / 86
p0 4602 ± 3.557
6000
5500
5000
4500
4000

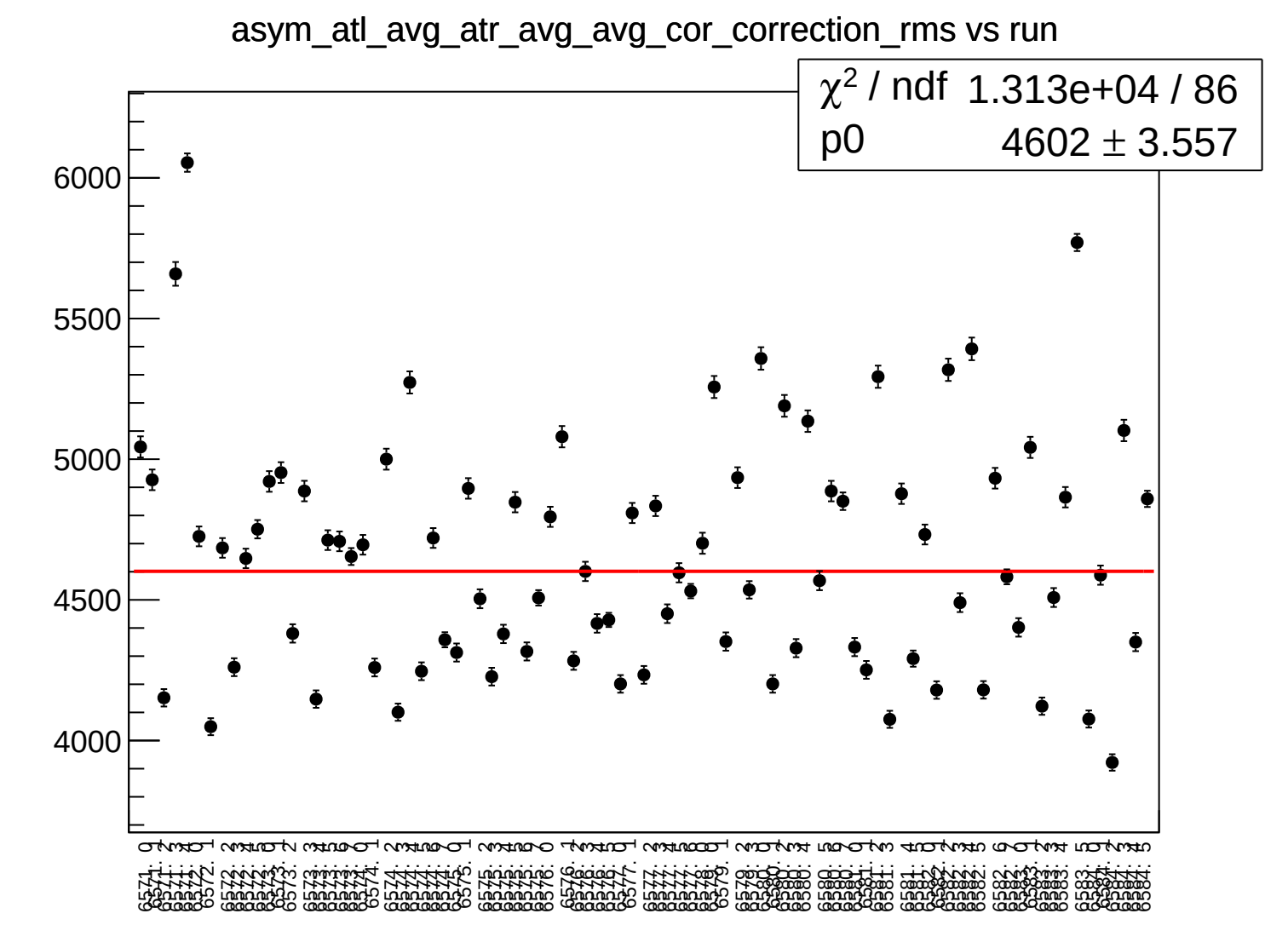

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 88.03 / 86
p0 71.59 ± 1476
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 575.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

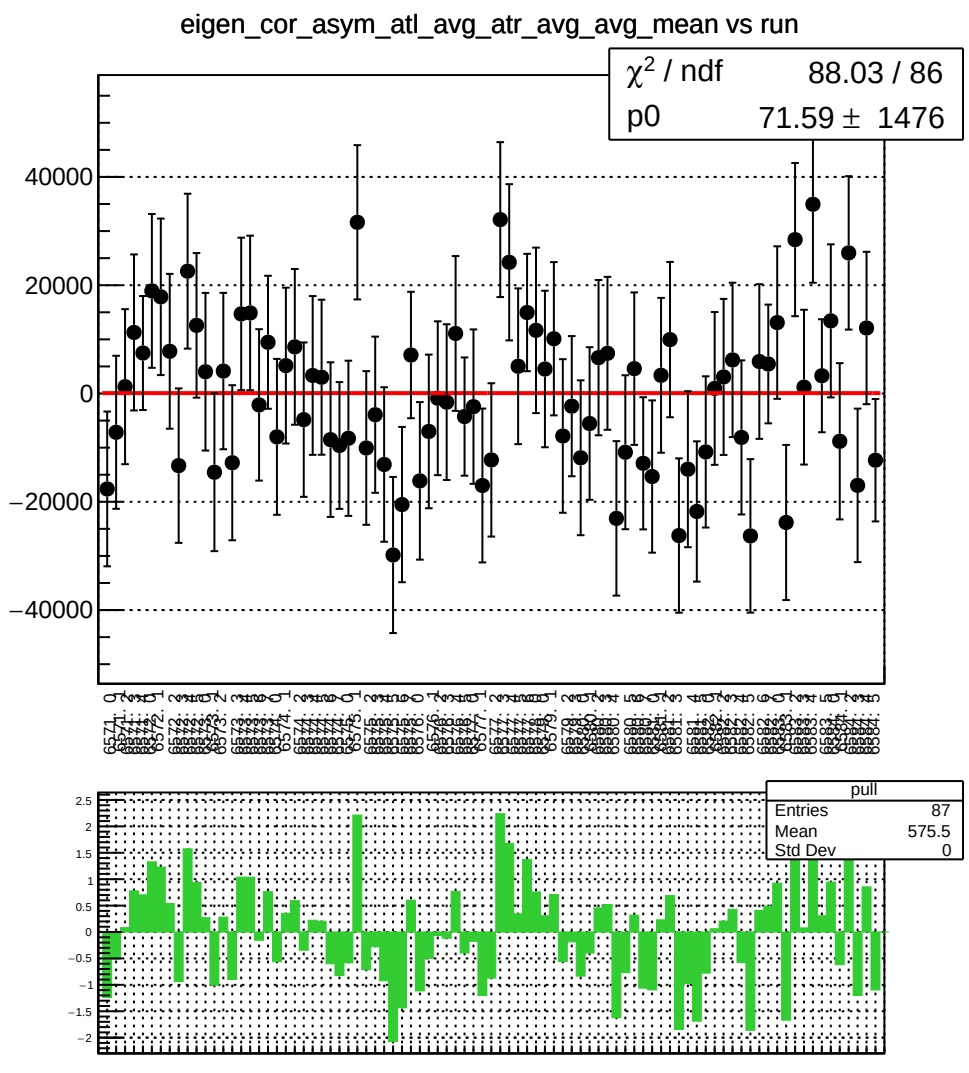

pull1D
Entries 87
Mean −0.002839
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

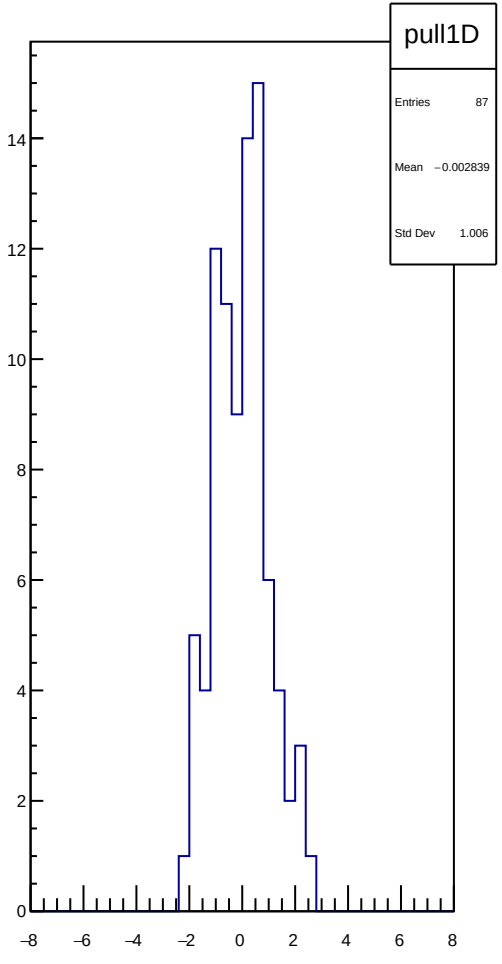

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 183.5 / 86
p0 1355 ± 1.044
1400
1380
1360
1340
1320

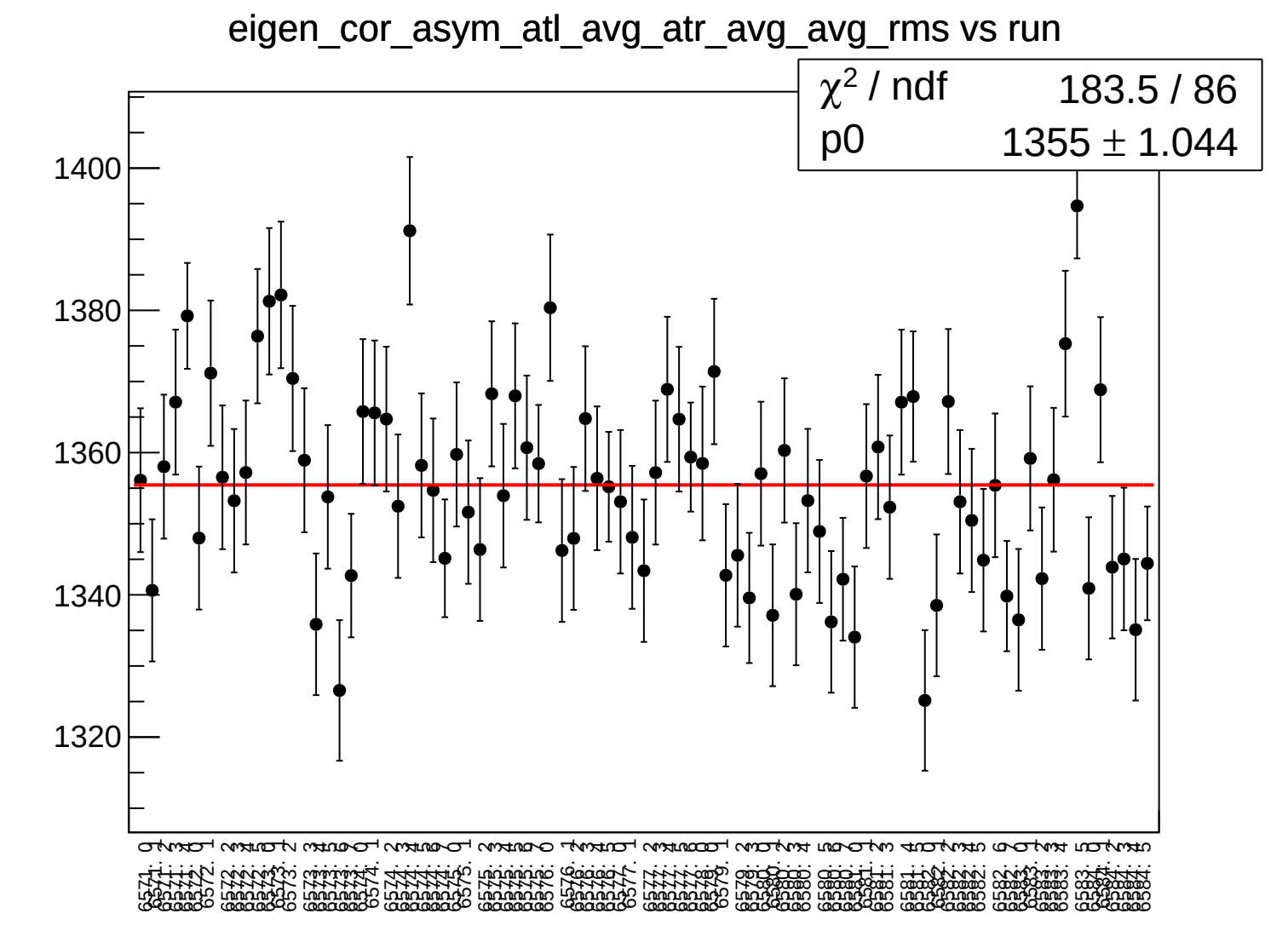

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.59 / 86
p0 3837 ± 5030
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −848.1
Std Dev 0
2
1
0
−1
−2
−3

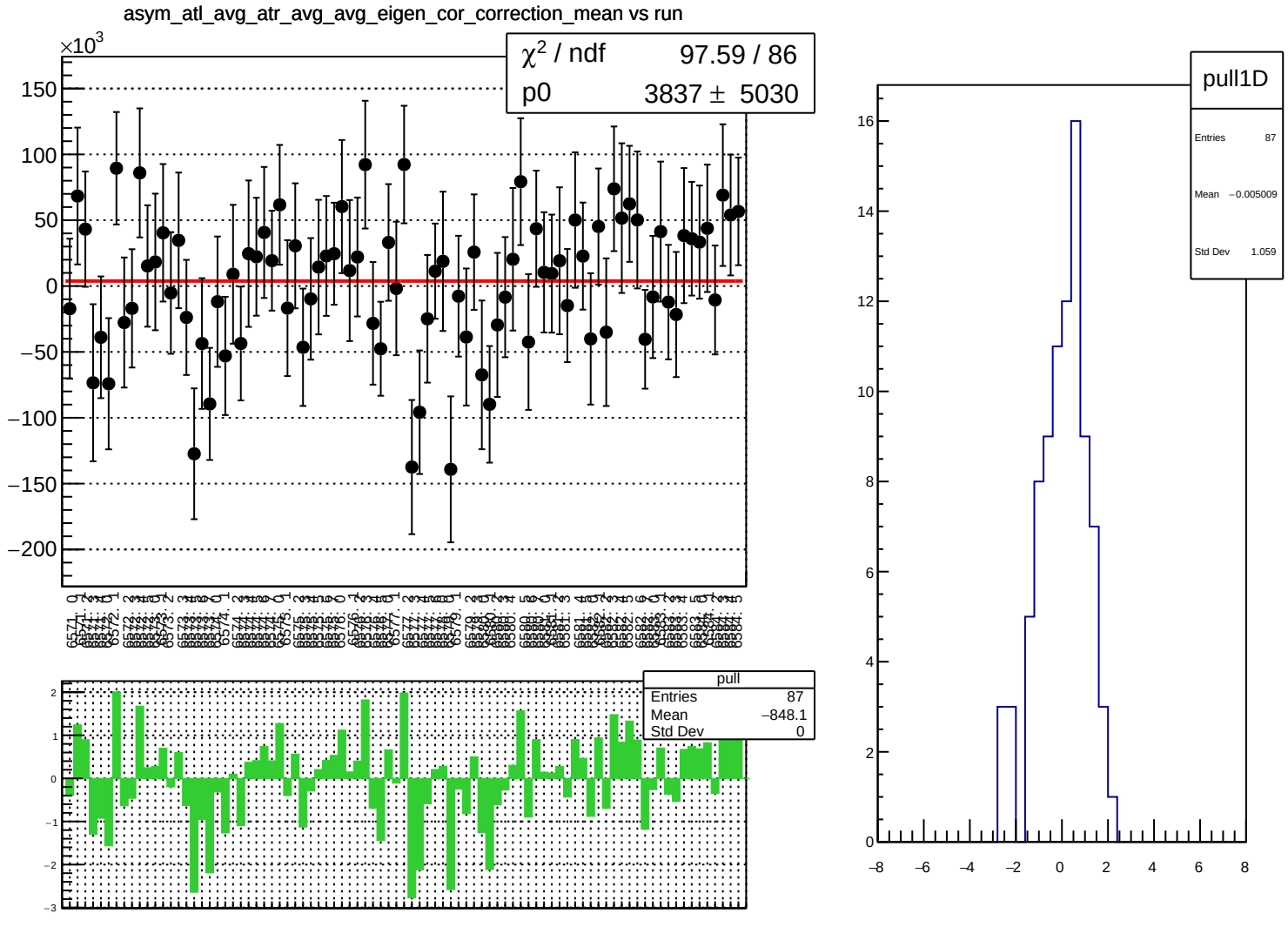

pull1D
Entries 87
Mean −0.005009
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

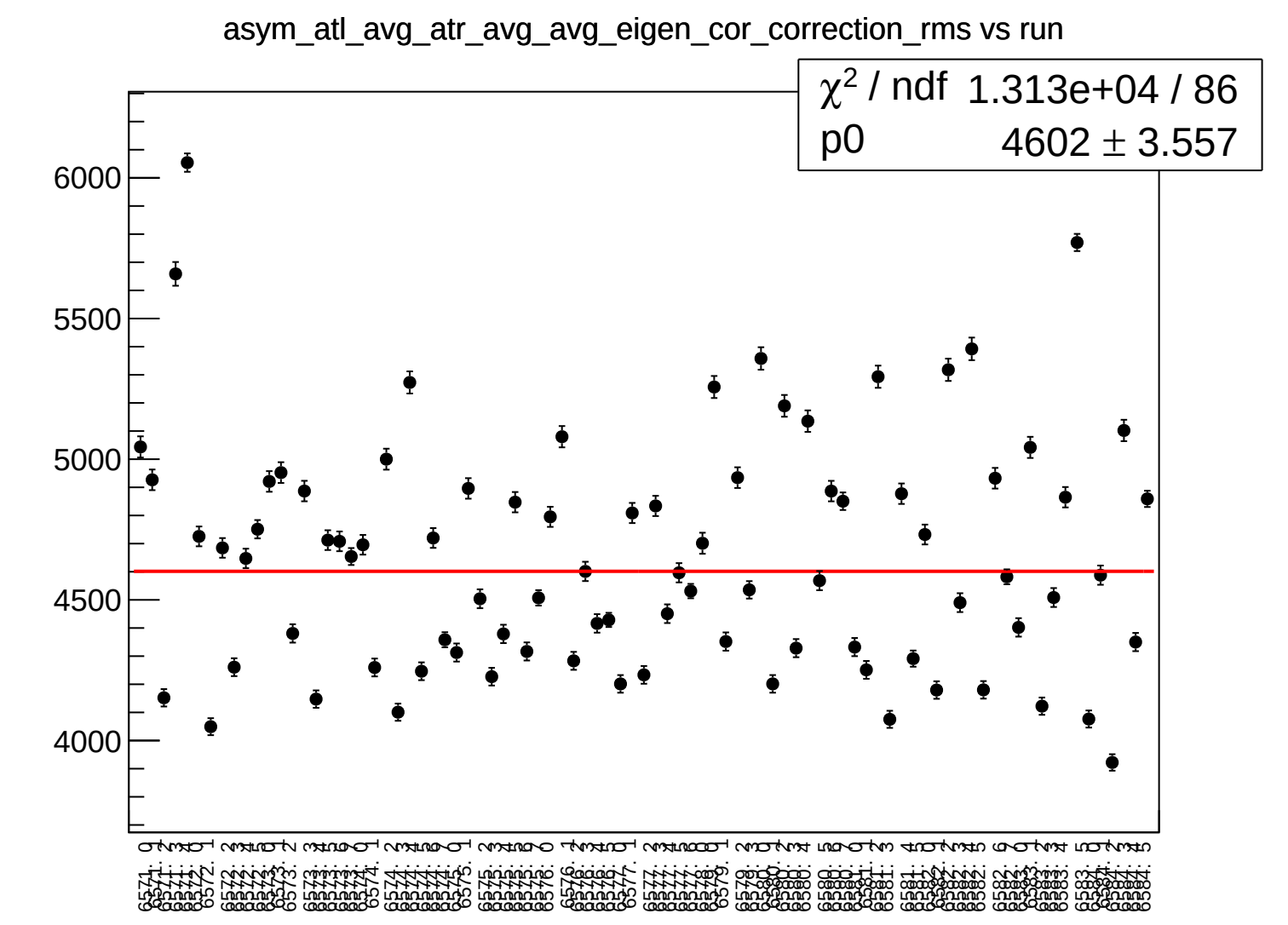

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.313e+04 / 86
p0 4602 ± 3.557
6000
5500
5000
4500
4000

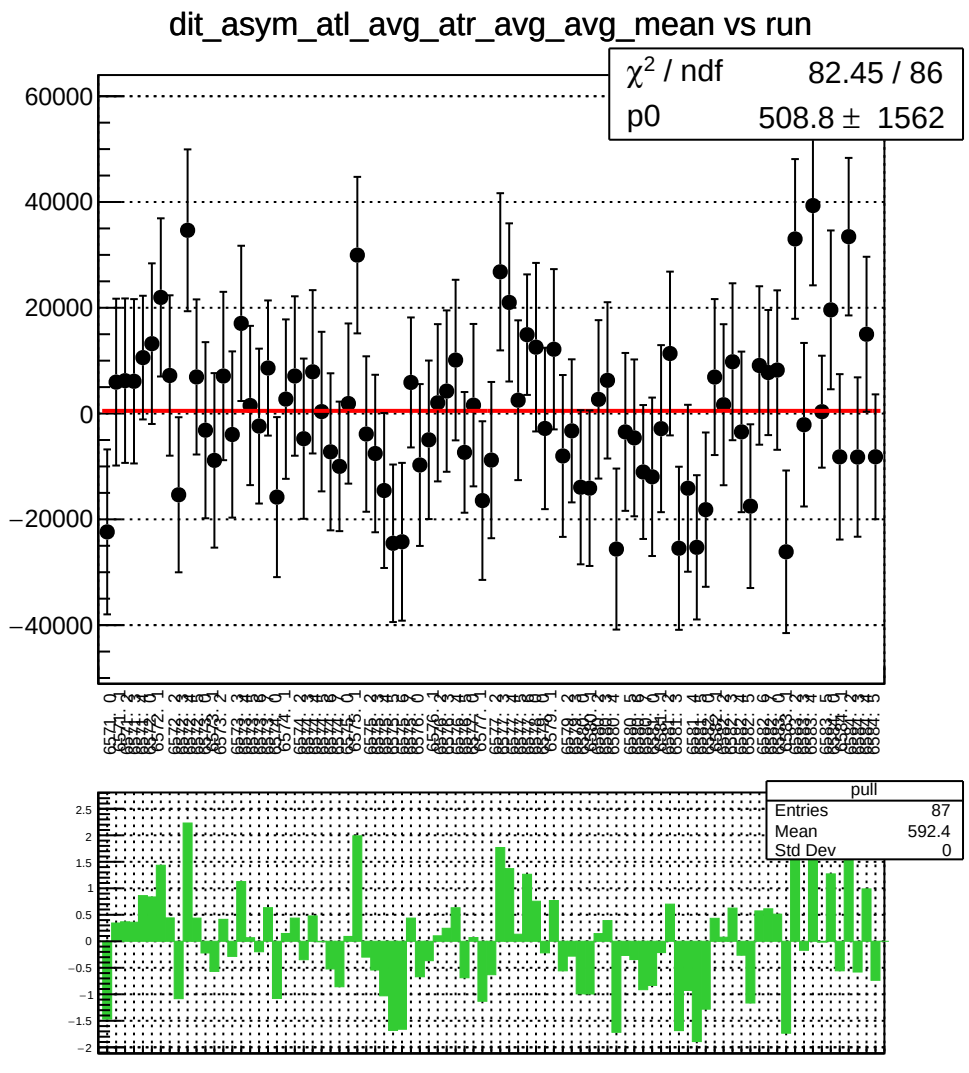

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 88.03 / 86
p0 71.59 ± 1476
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 575.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

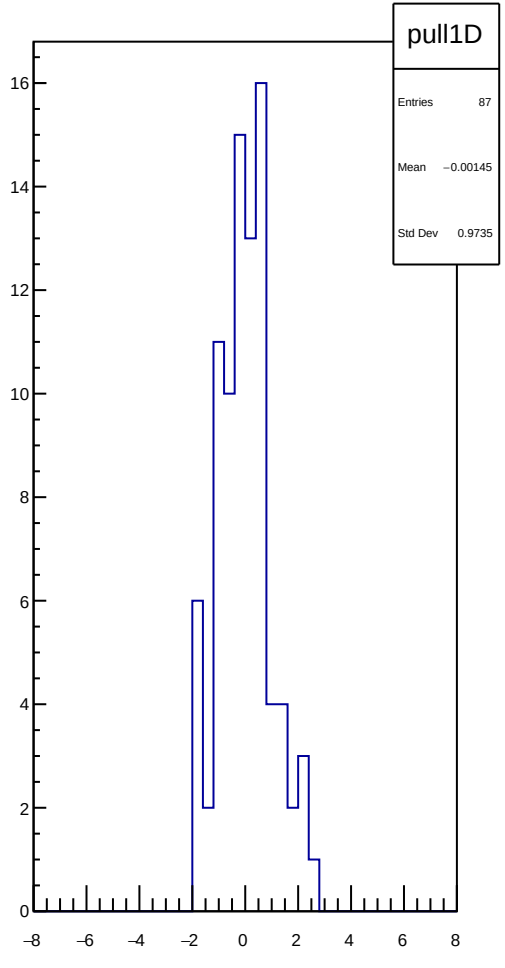

pull1D
Entries 87
Mean −0.002839
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

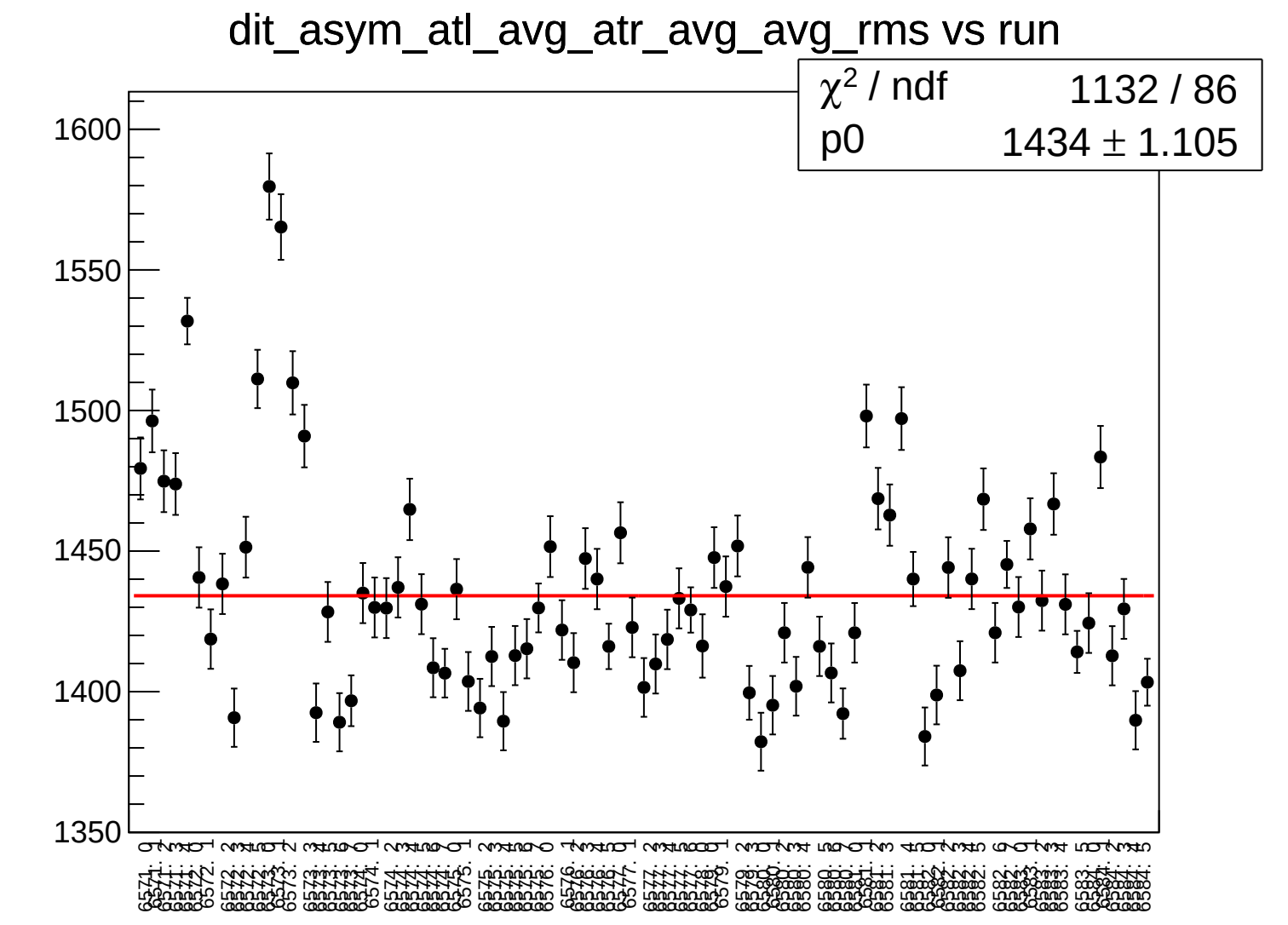

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 183.5 / 86
p0 1355 ± 1.044
1400
1380
1360
1340
1320

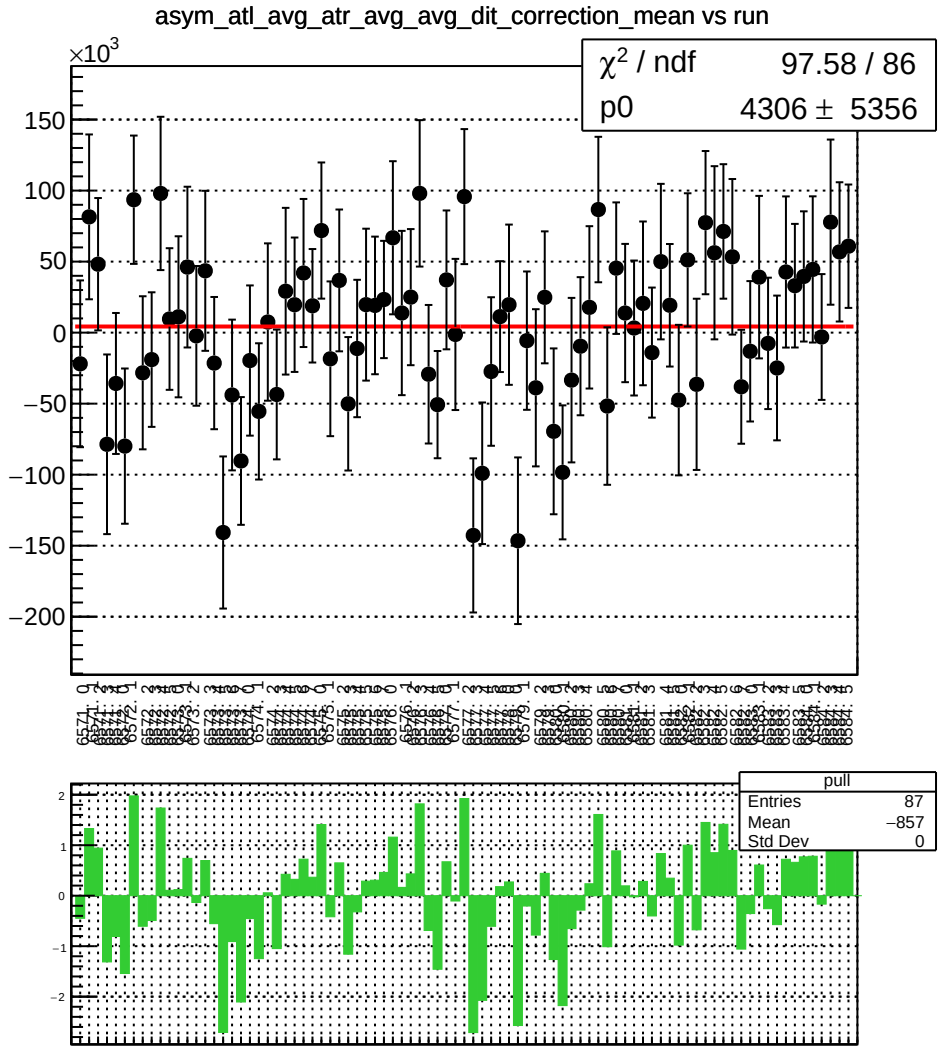

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.59 / 86
p0 3837 ± 5030
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −848.1
Std Dev 0
pull1D
Entries 87
Mean −0.005009
Std Dev 1.059

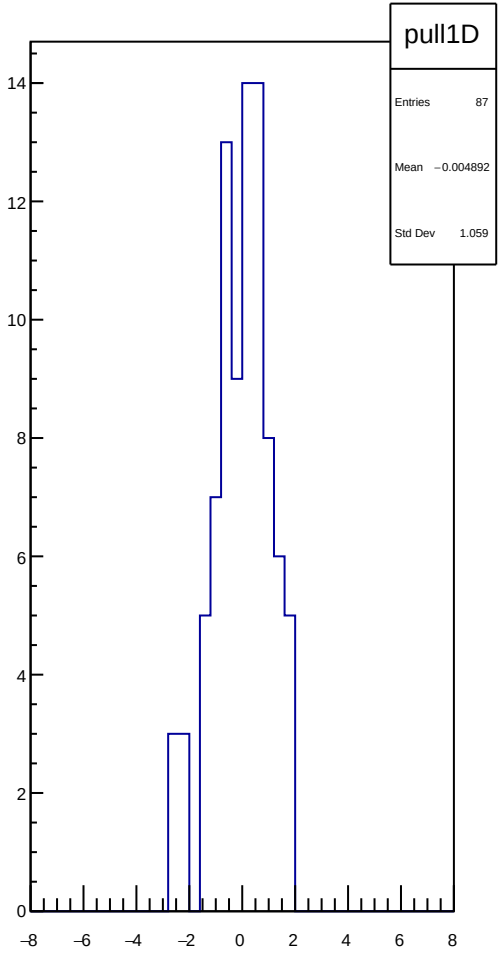

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.313e+04 / 86
p0 4602 ± 3.557
6000
5500
5000
4500
4000

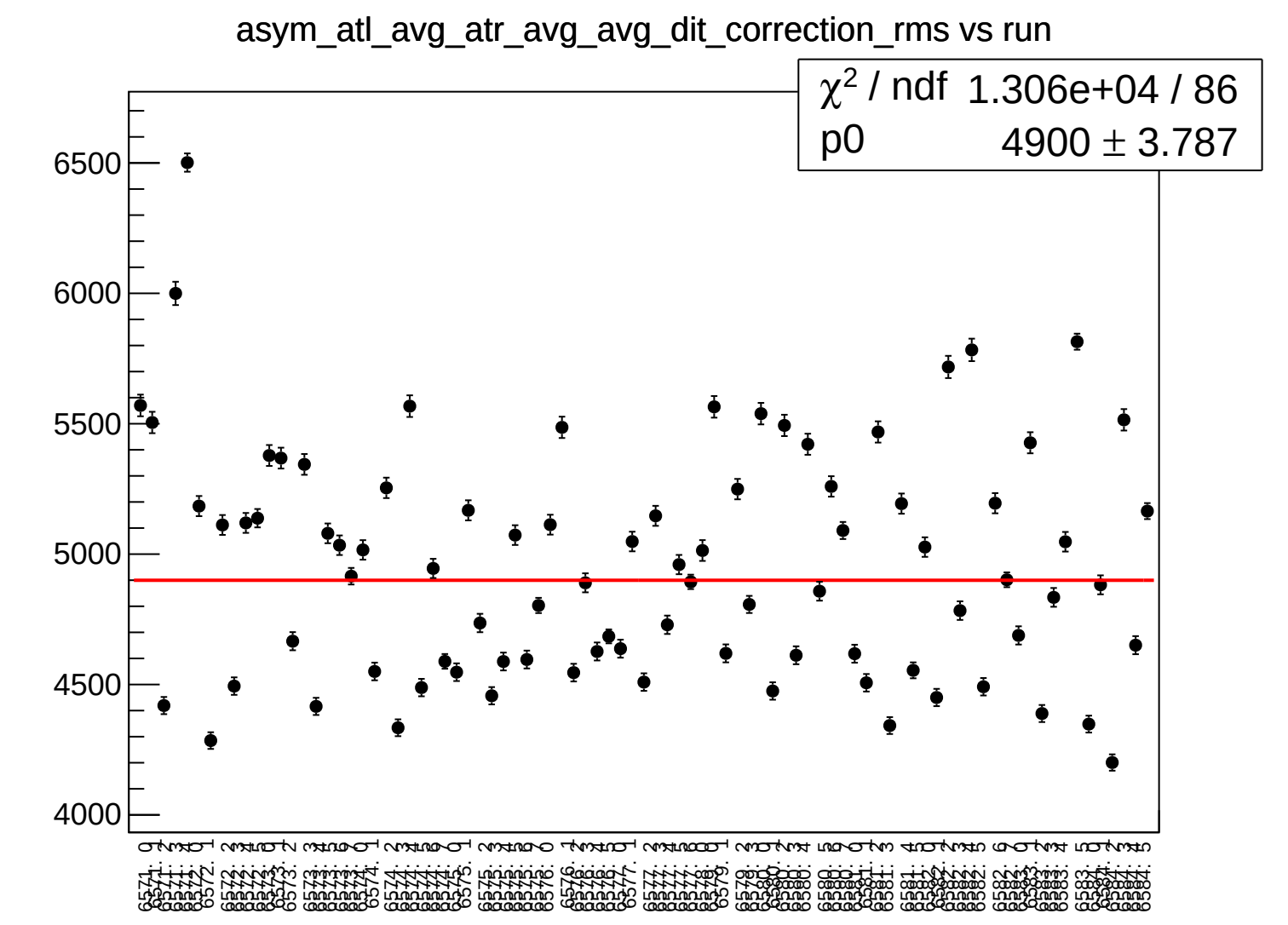

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 82.45 / 86
p0 508.8 ± 1562
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 592.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

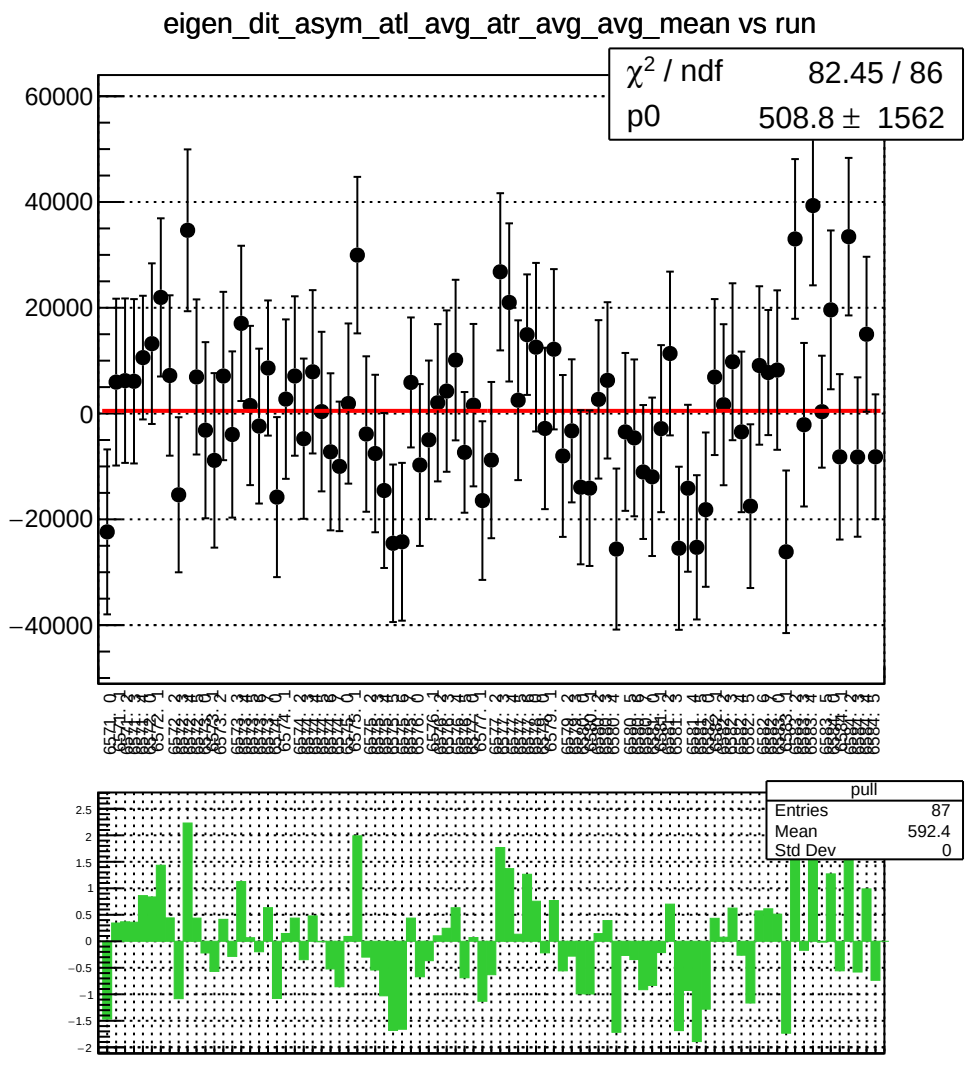

pull1D
Entries 87
Mean −0.00145
Std Dev 0.9735
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

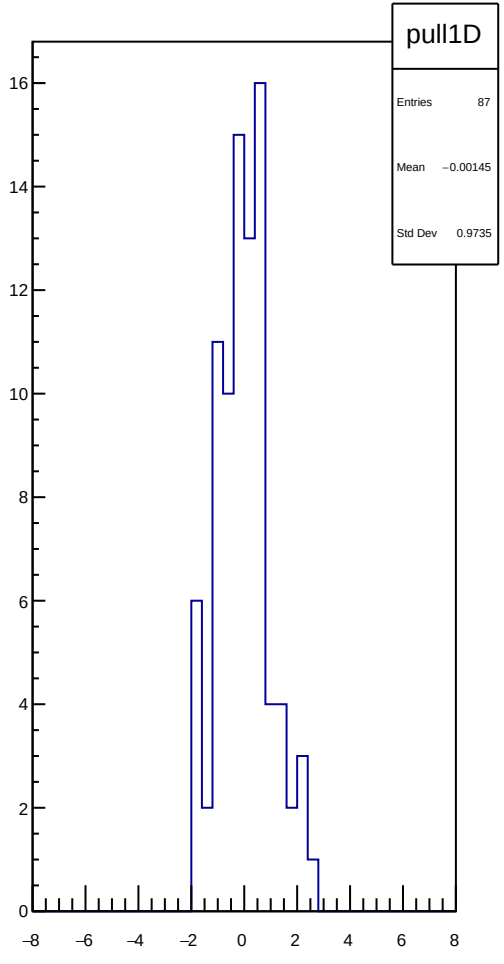

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1132 / 86
p0 1434 ± 1.105
1600
1550
1500
1450
1400
1350

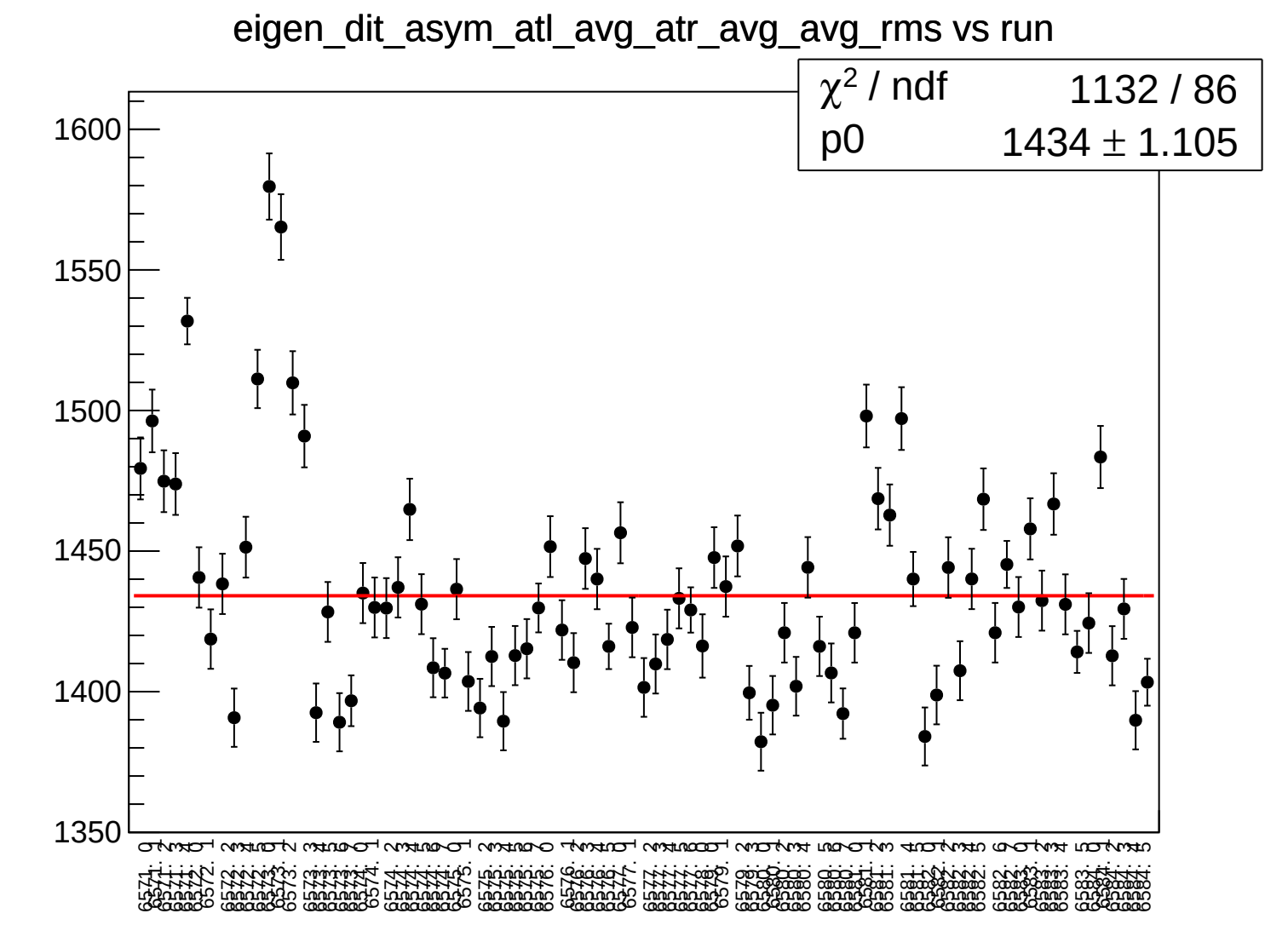

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.58 / 86
p0 4306 ± 5356
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −857
Std Dev 0
2
1
0
−1
−2

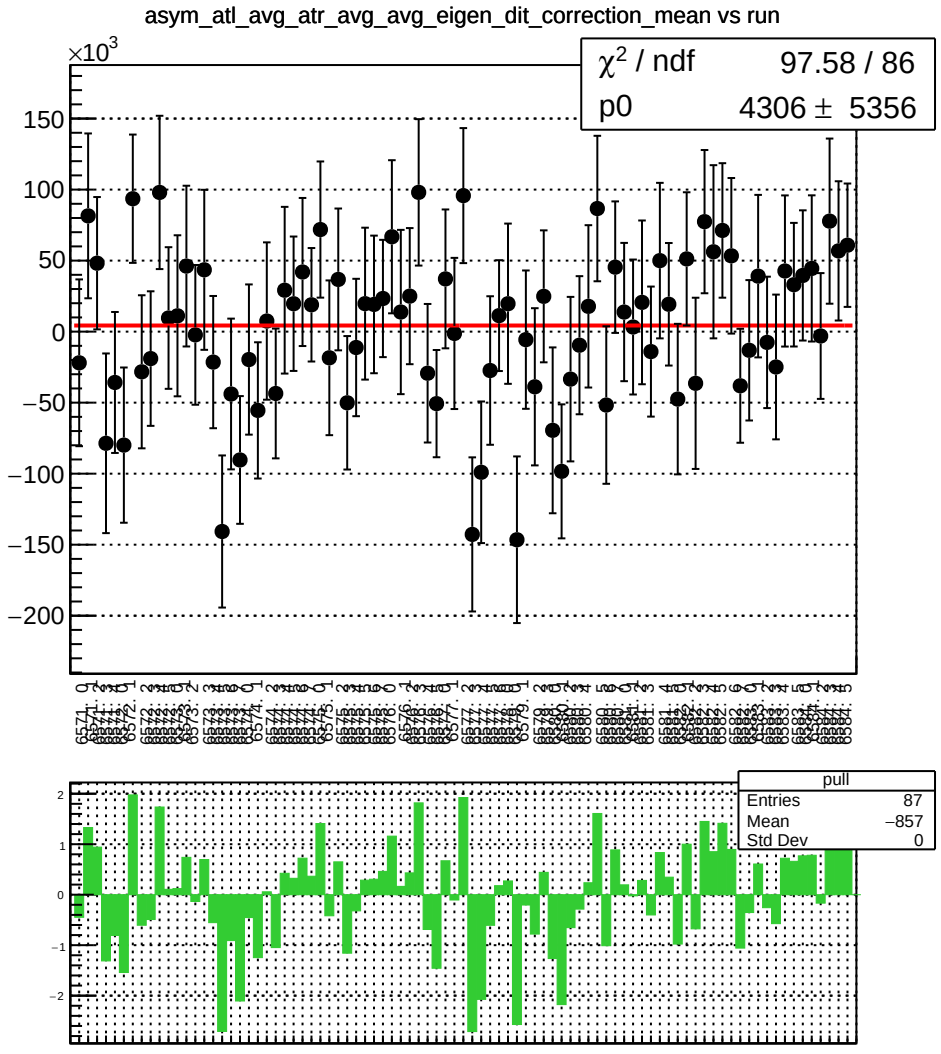

pull1D
Entries 87
Mean −0.004892
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

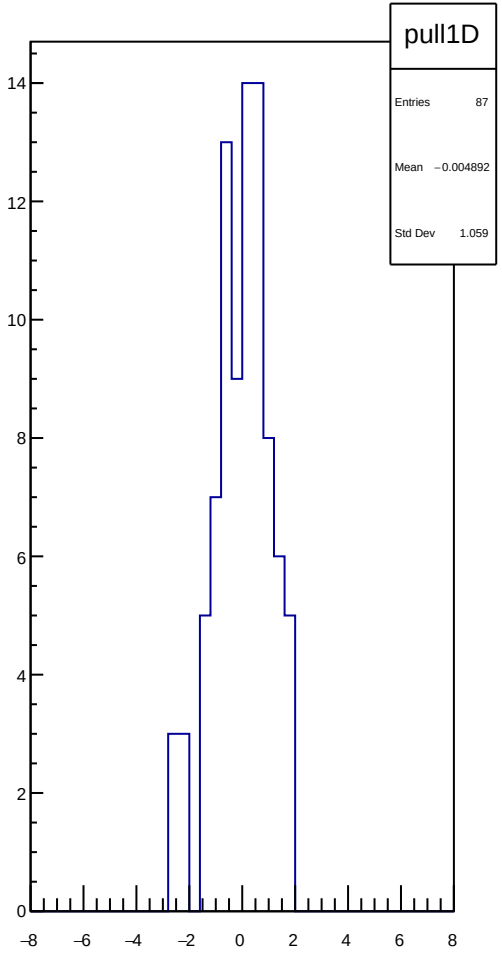

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.306e+04 / 86
p0 4900 ± 3.787
6500
6000
5500
5000
4500
4000

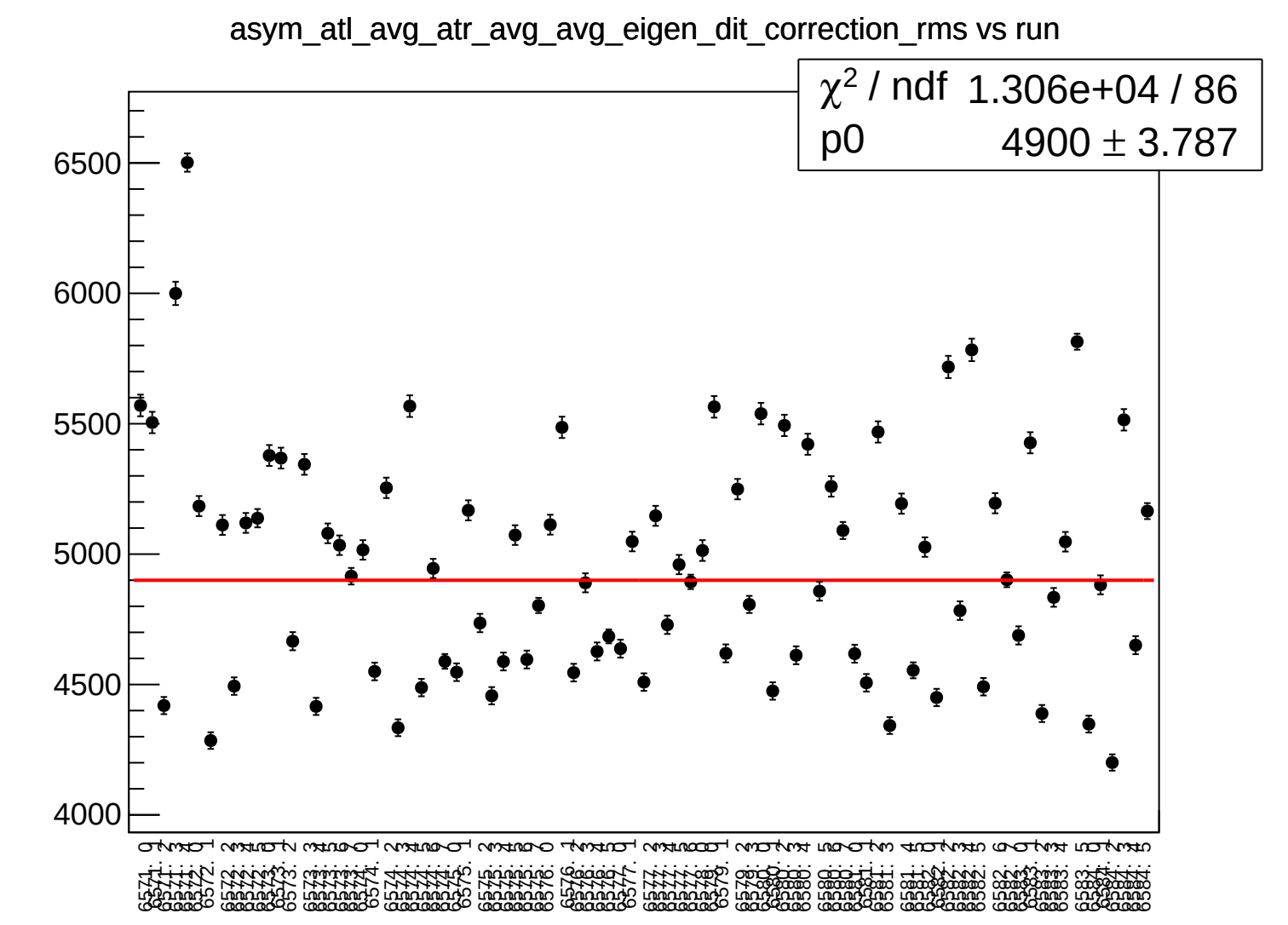

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 82.45 / 86
p0 508.8 ± 1562
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 592.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

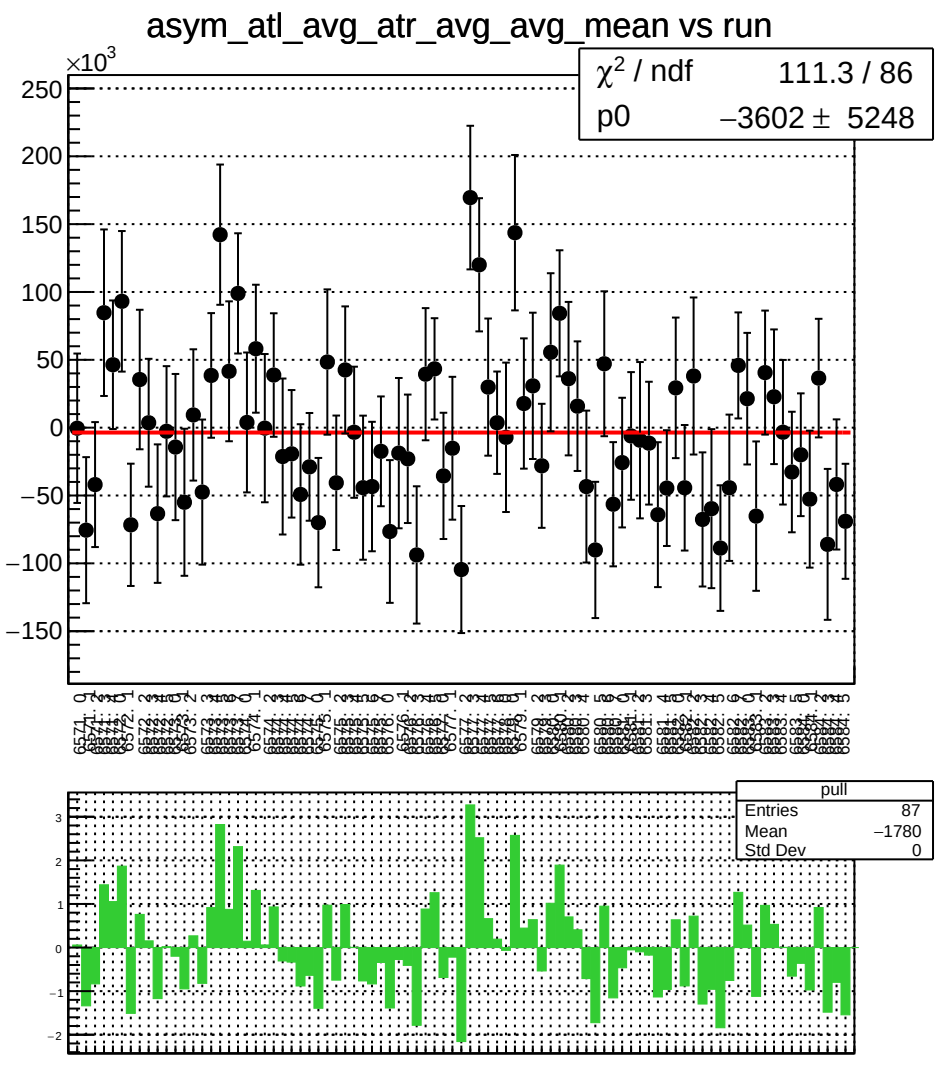

pull1D
Entries 87
Mean −0.00145
Std Dev 0.9735
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

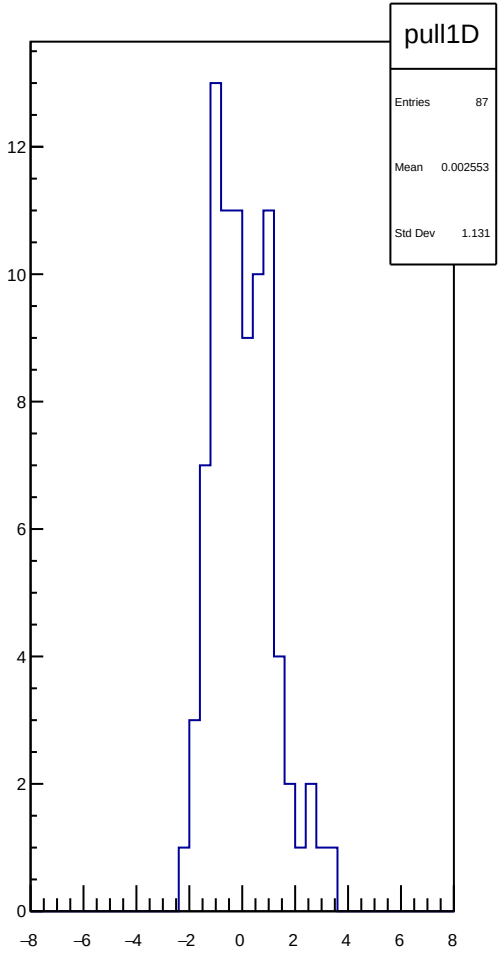

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1132 / 86
p0 1434 ± 1.105
1600
1550
1500
1450
1400
1350

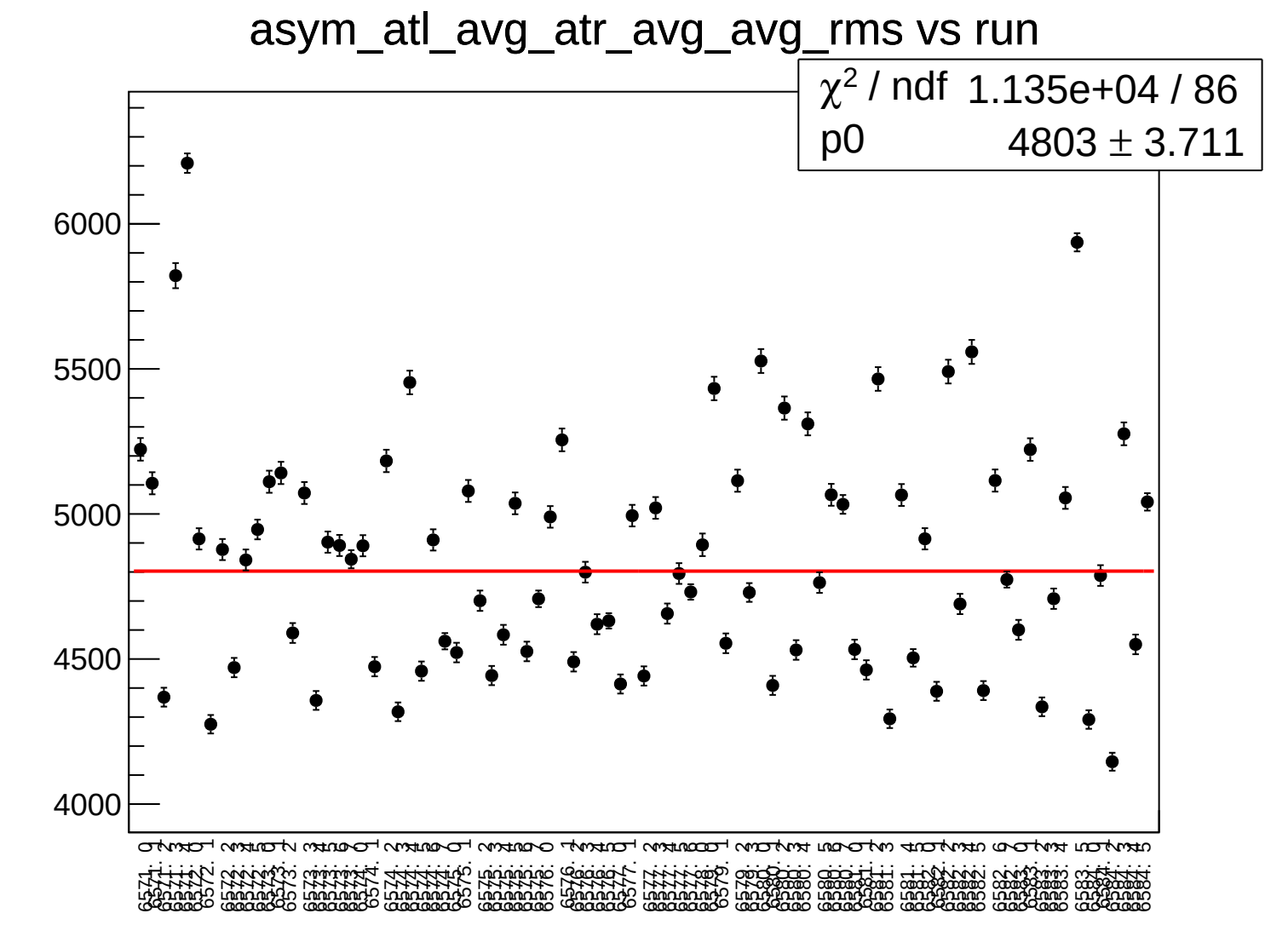

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.58 / 86
p0 4306 ± 5356
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −857
Std Dev 0
2
1
0
−1
−2

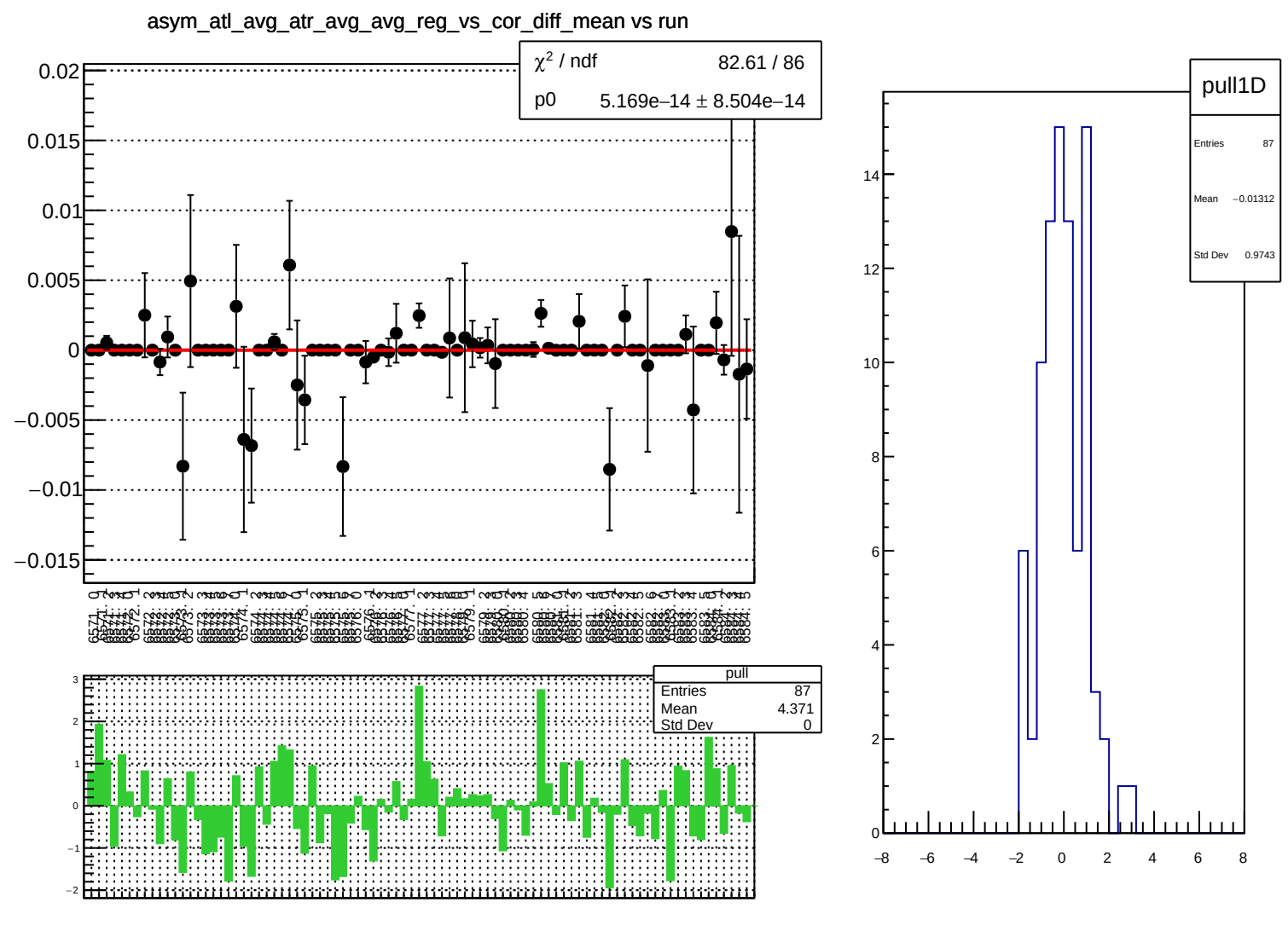

pull1D
Entries 87
Mean −0.004892
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

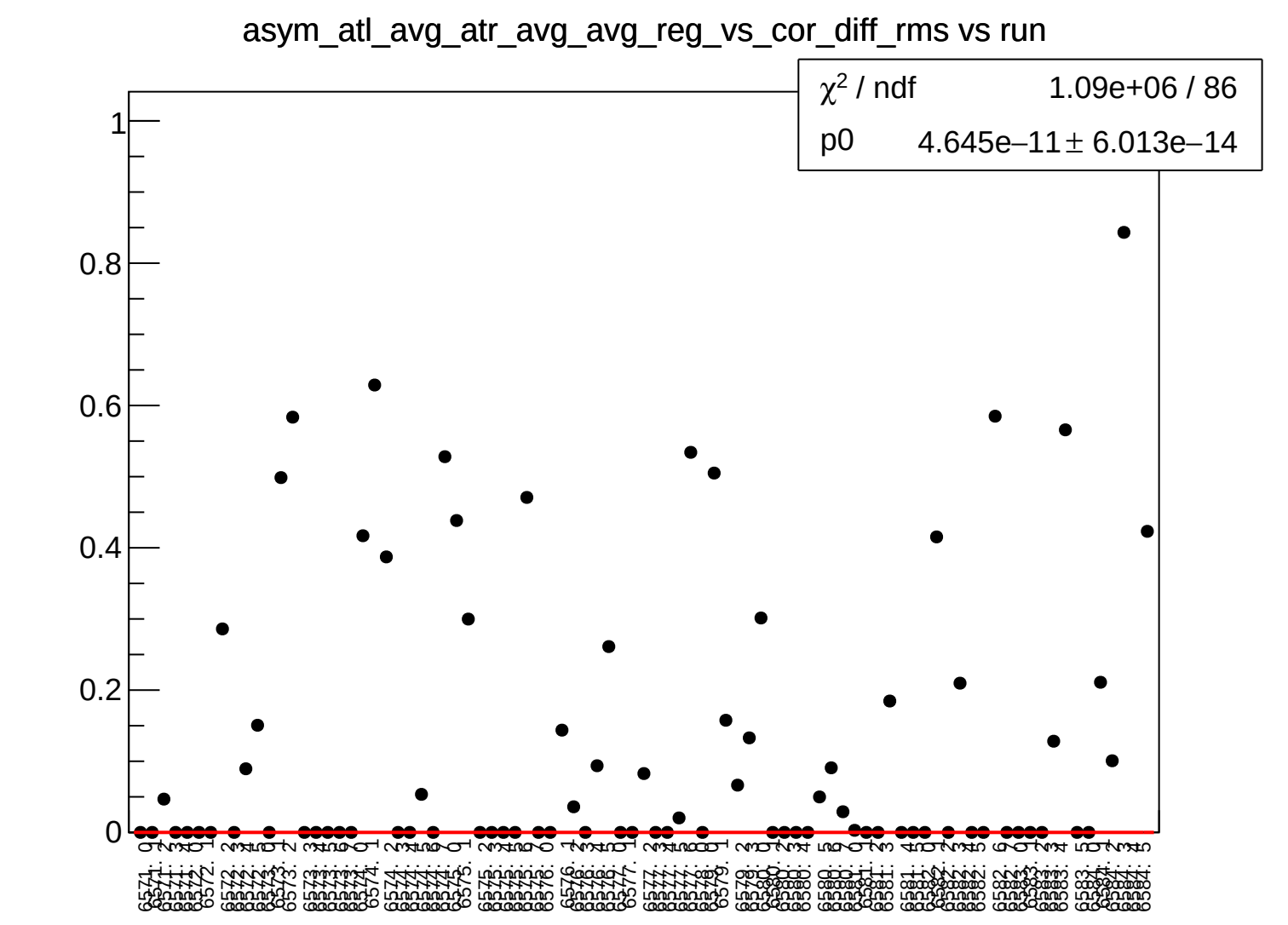

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.306e+04 / 86
p0 4900 ± 3.787
6500
6000
5500
5000
4500
4000

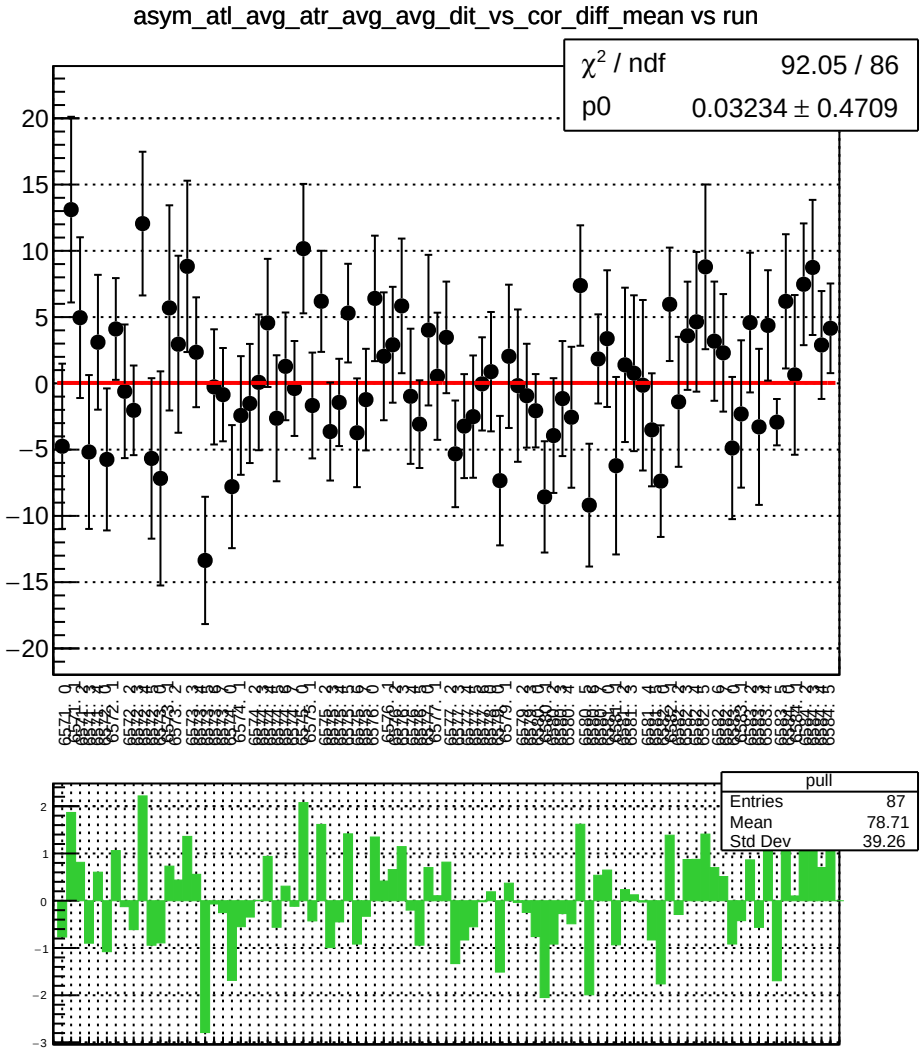

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 111.3 / 86
p0 −3602 ± 5248
×10³
pull
Entries 87
Mean −1780
Std Dev 0

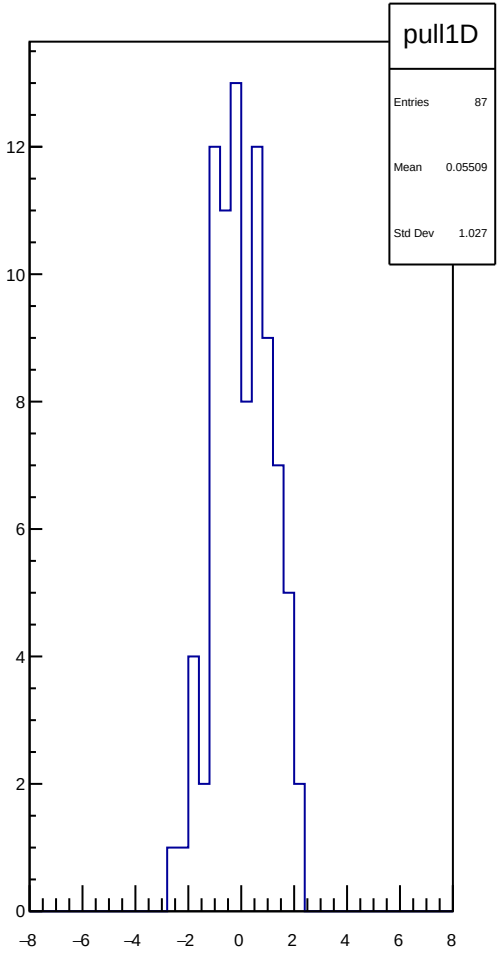

pull1D
Entries 87
Mean 0.002553
Std Dev 1.131

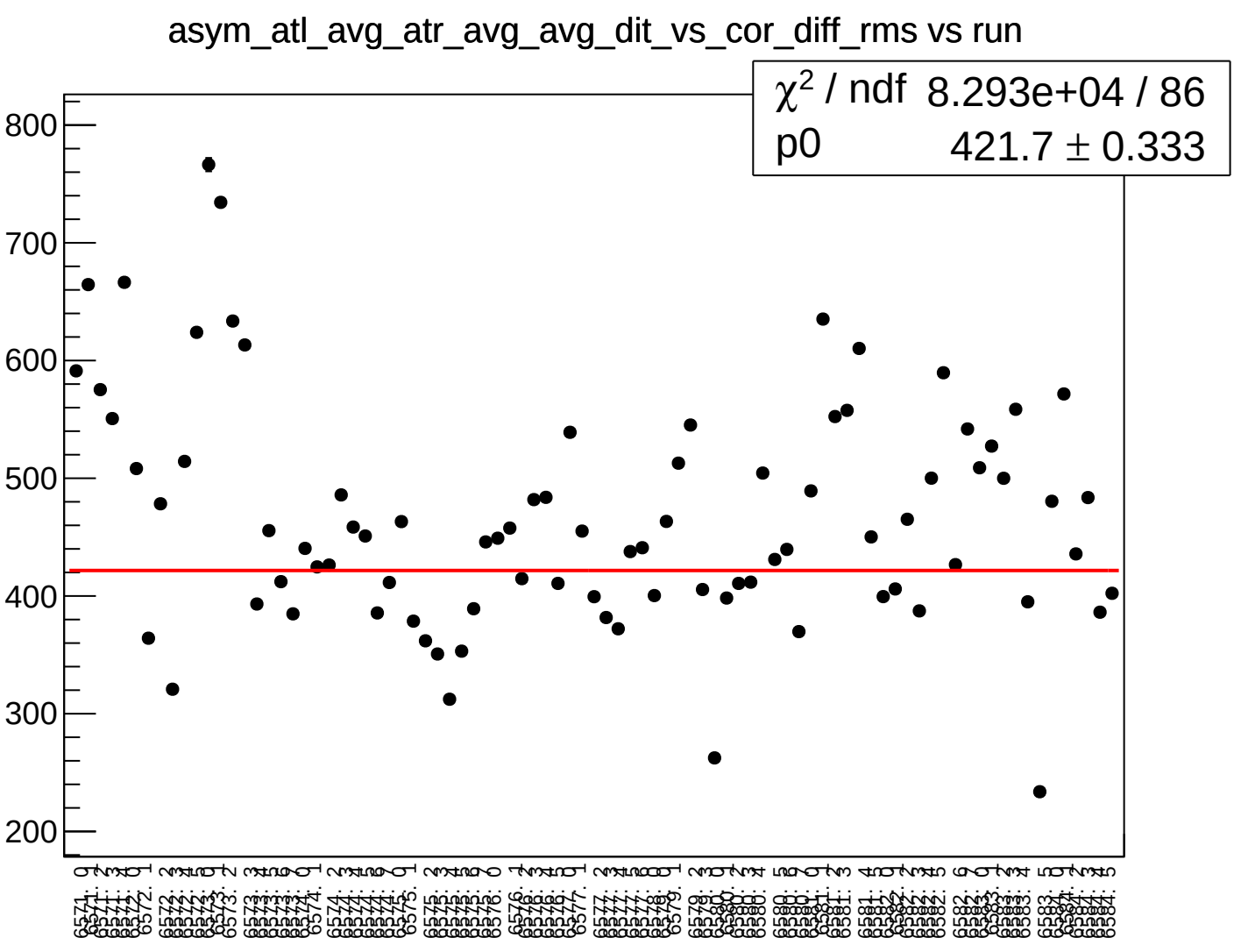

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.135e+04 / 86
p0 4803 ± 3.711
6000
5500
5000
4500
4000

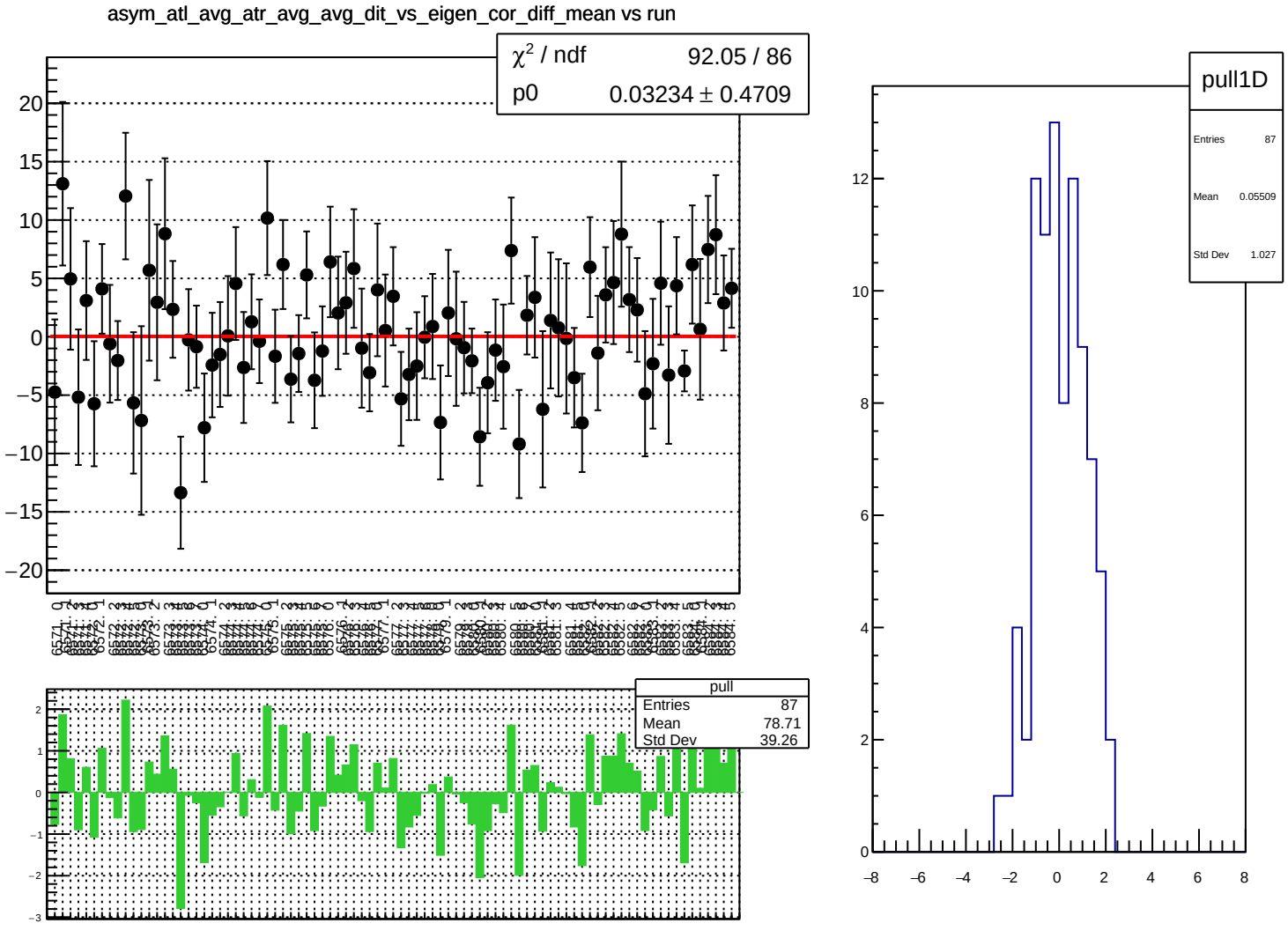

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.61 / 86
p0 5.169e−14 ± 8.504e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 87
Mean 4.371
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01312
Std Dev 0.9743
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

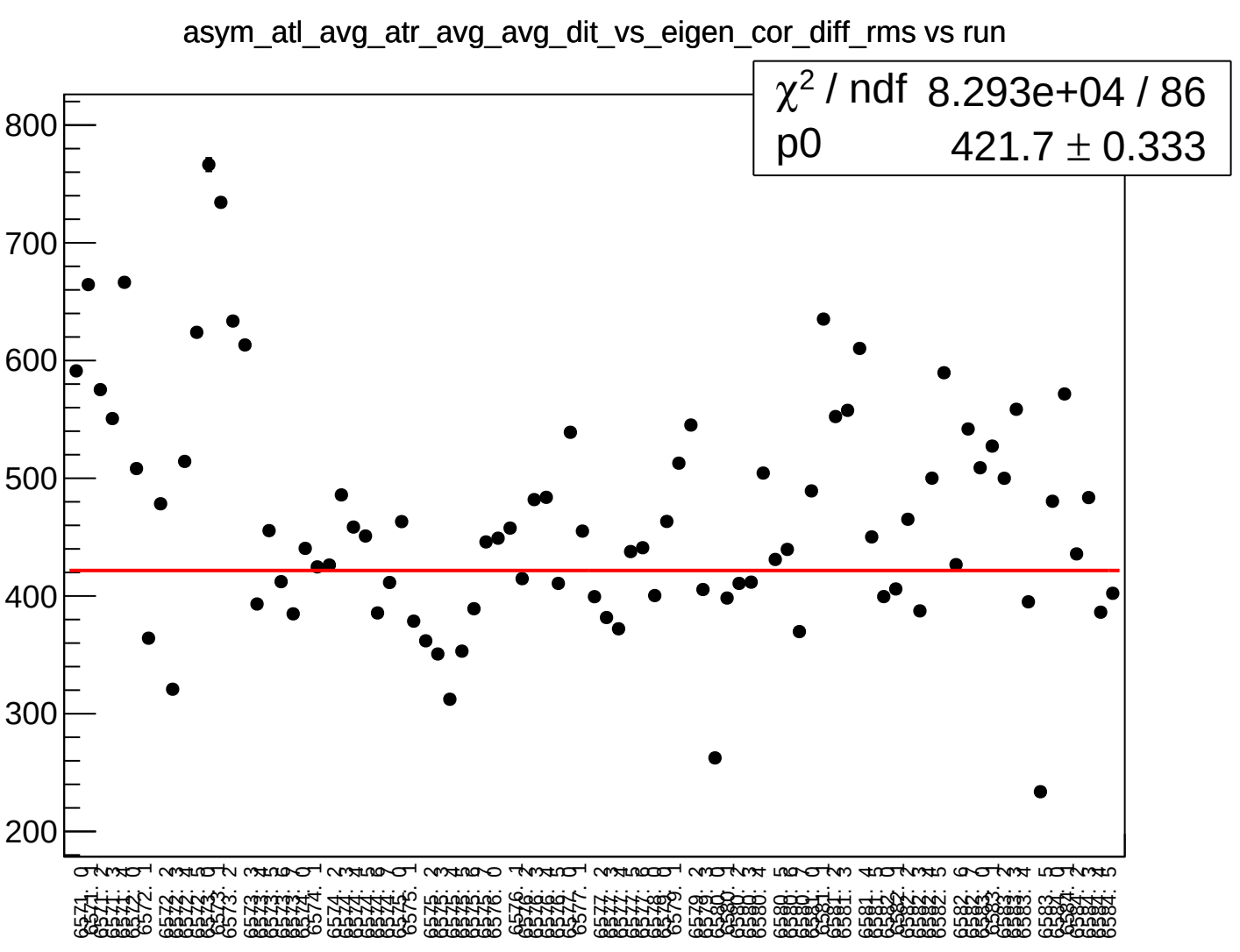

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 86
p0 4.645e−11 ± 6.013e−14
1
0.8
0.6
0.4
0.2
0

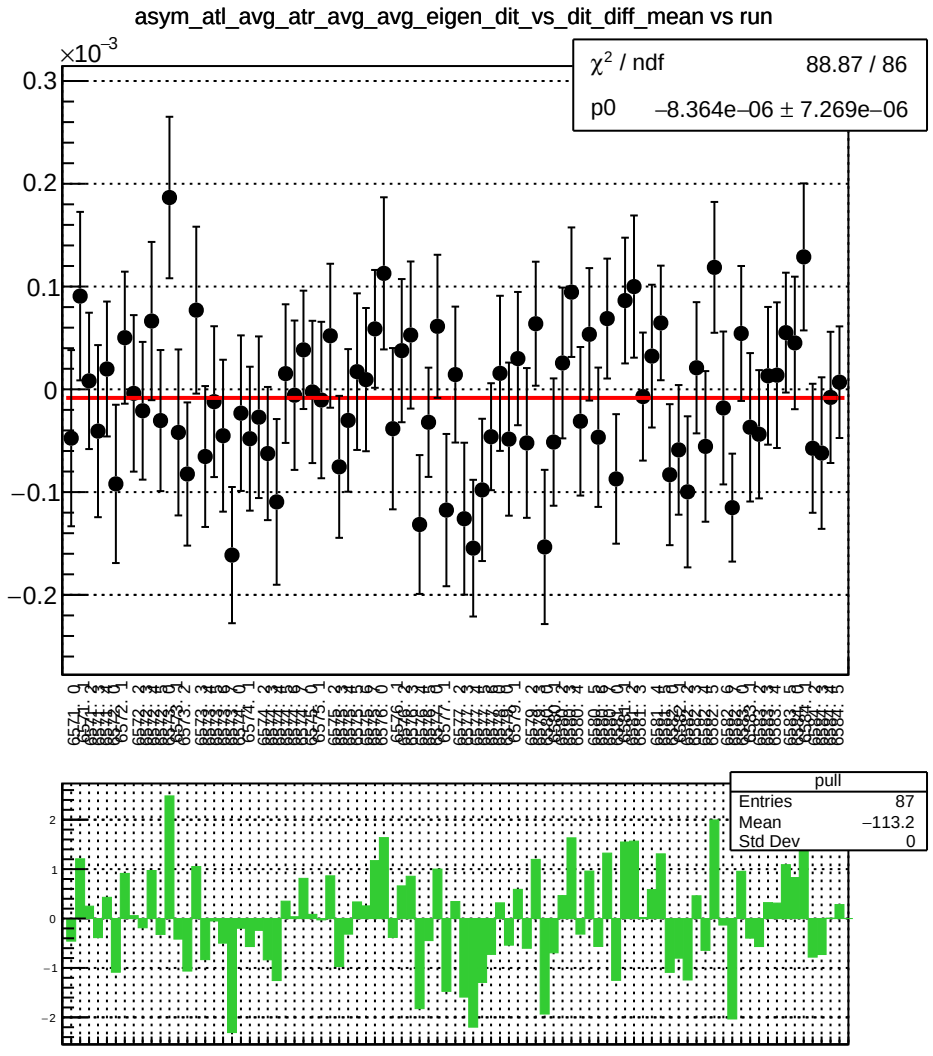

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.05 / 86
p0 0.03234 ± 0.4709
pull
Entries 87
Mean 78.71
Std Dev 39.26

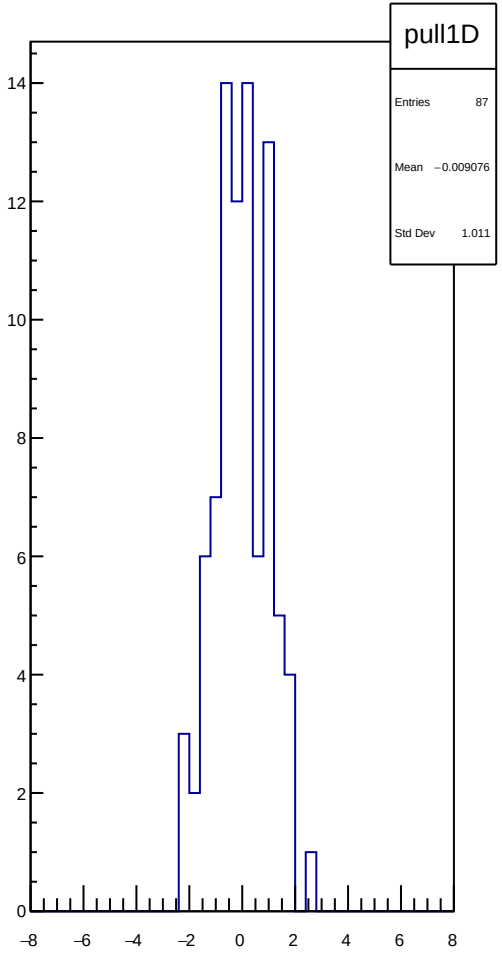

pull1D
Entries 87
Mean 0.05509
Std Dev 1.027

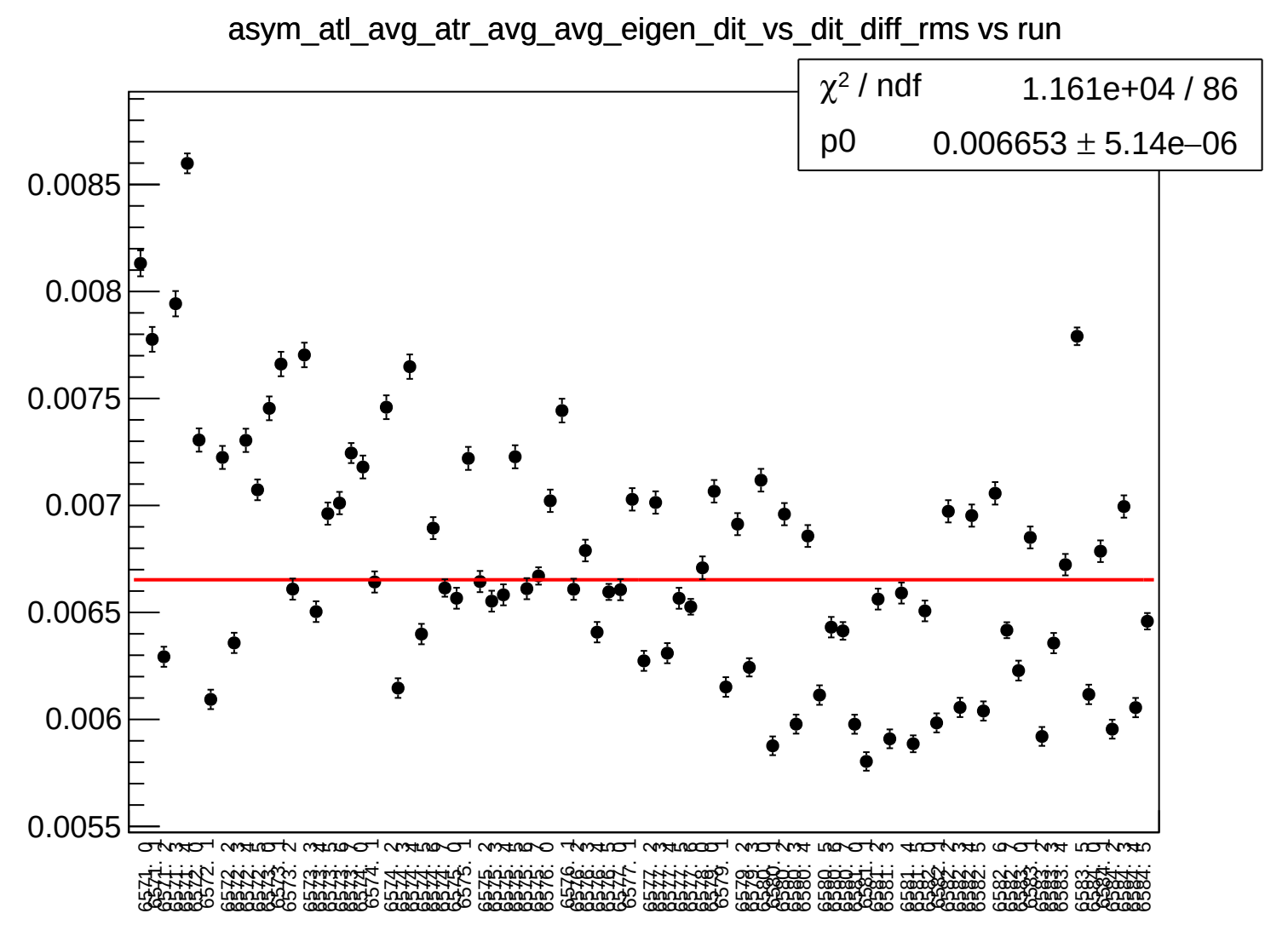

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.293e+04 / 86
p0 421.7 ± 0.333
800
700
600
500
400
300
200

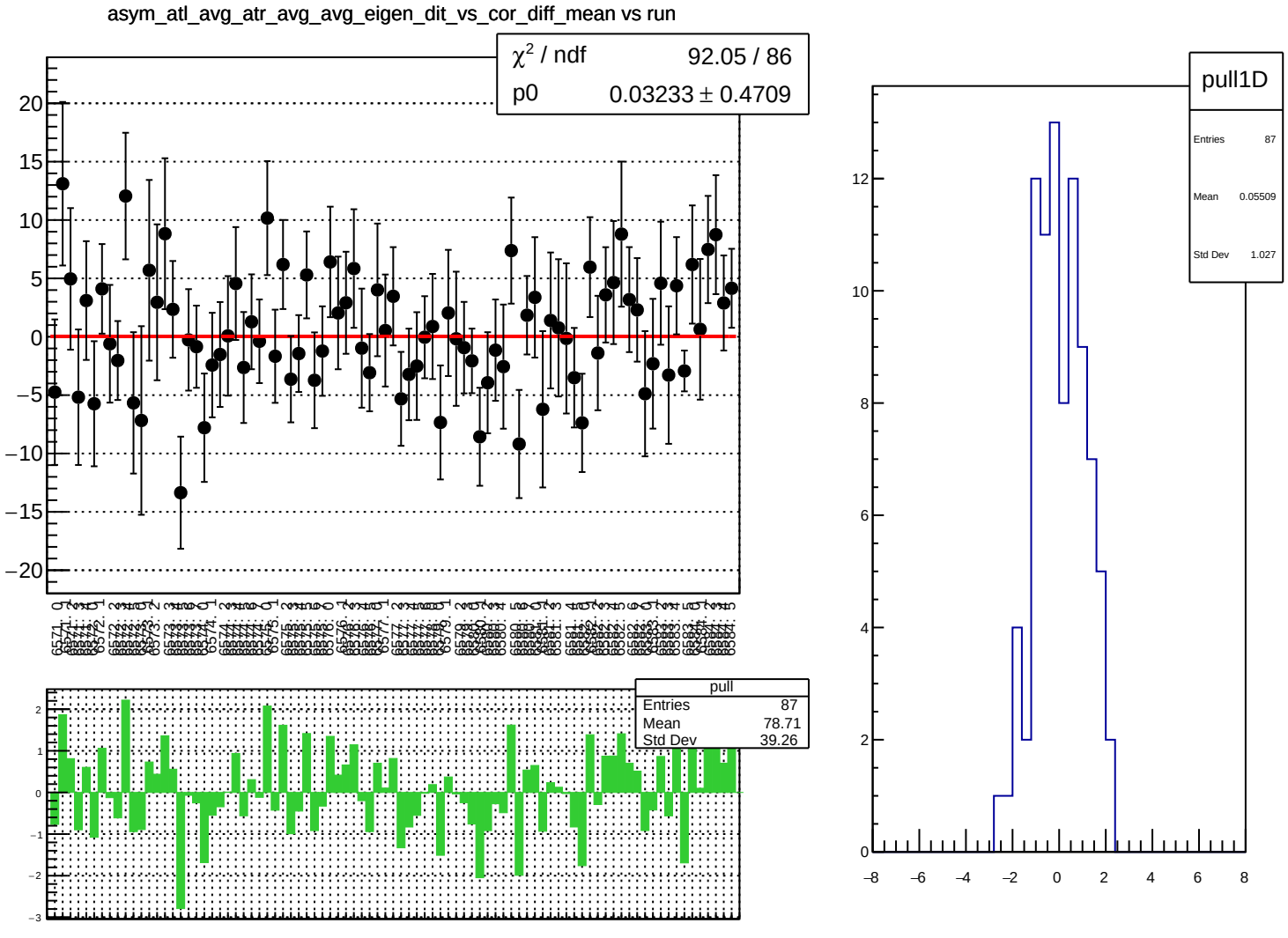

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.05 / 86
p0 0.03234 ± 0.4709
pull
Entries 87
Mean 78.71
Std Dev 39.26
pull1D
Entries 87
Mean 0.05509
Std Dev 1.027

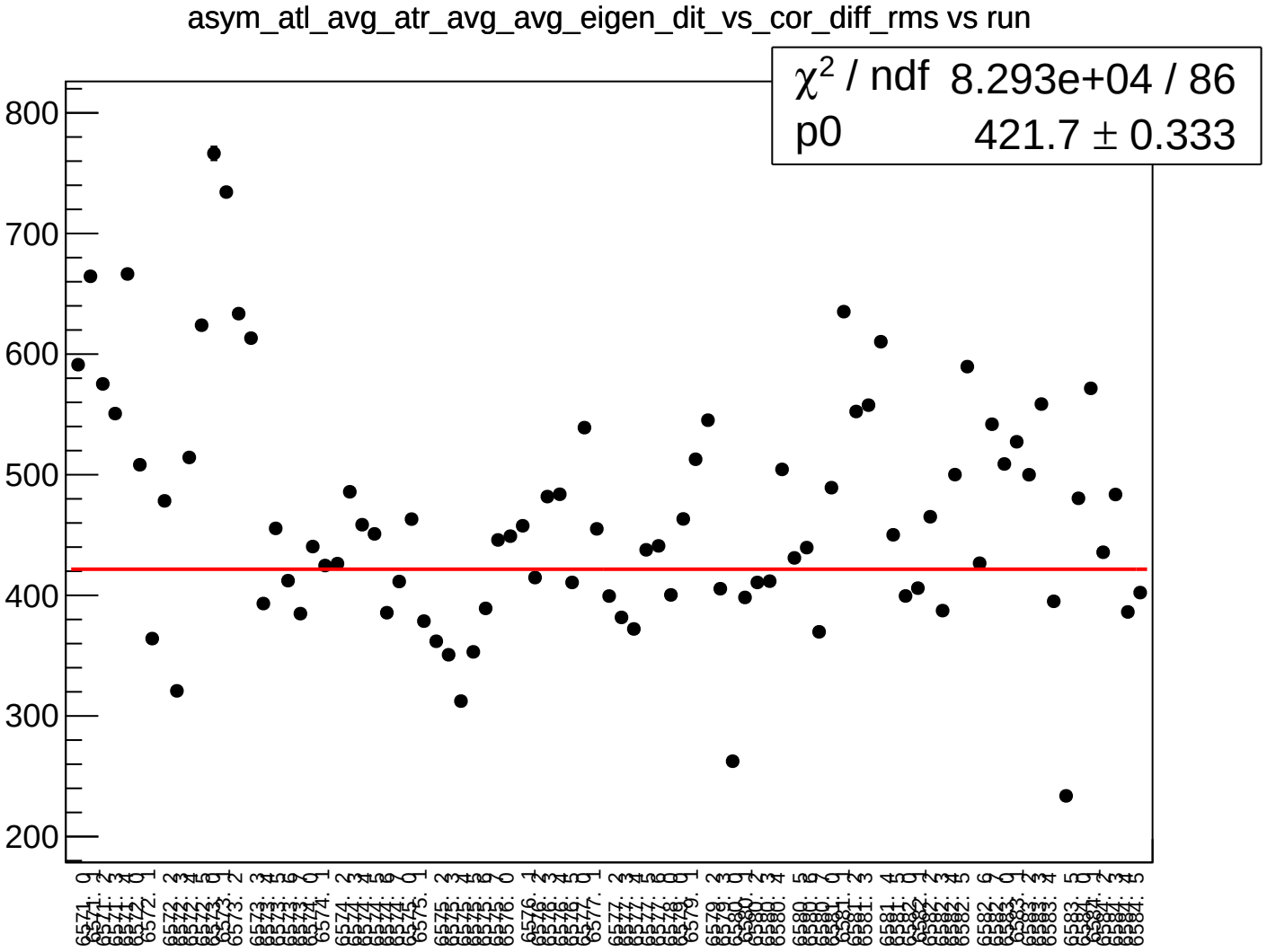

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.293e+04 / 86
p0 421.7 ± 0.333
800
700
600
500
400
300
200

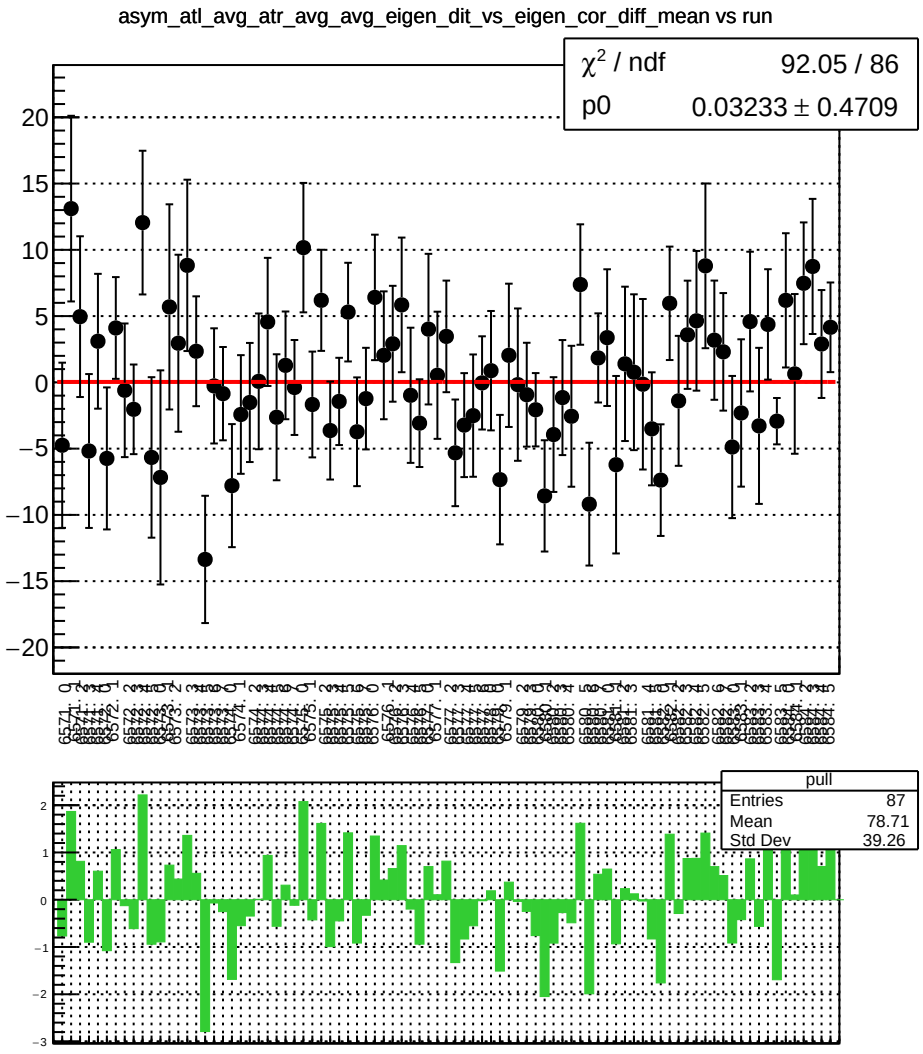

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.87 / 86
p0 −8.364e−06 ± 7.269e−06
pull
Entries 87
Mean −113.2
Std Dev 0

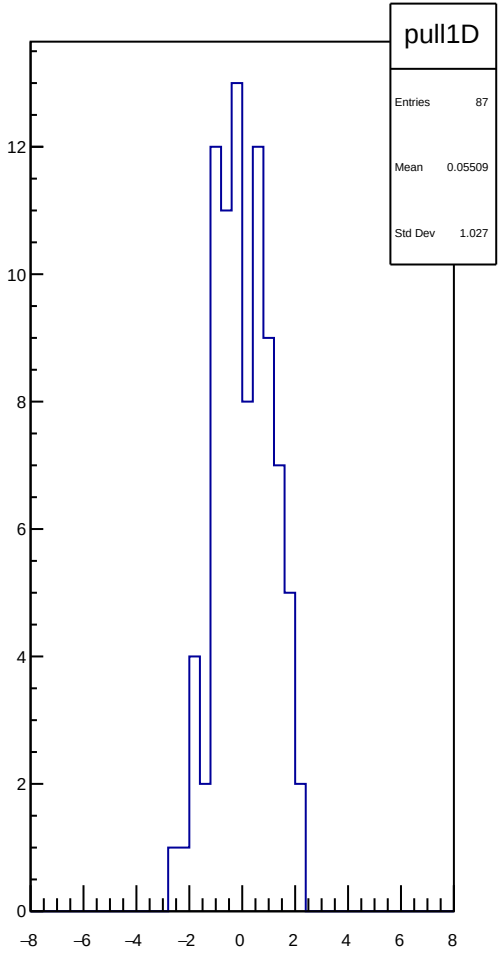

pull1D
Entries 87
Mean −0.009076
Std Dev 1.011

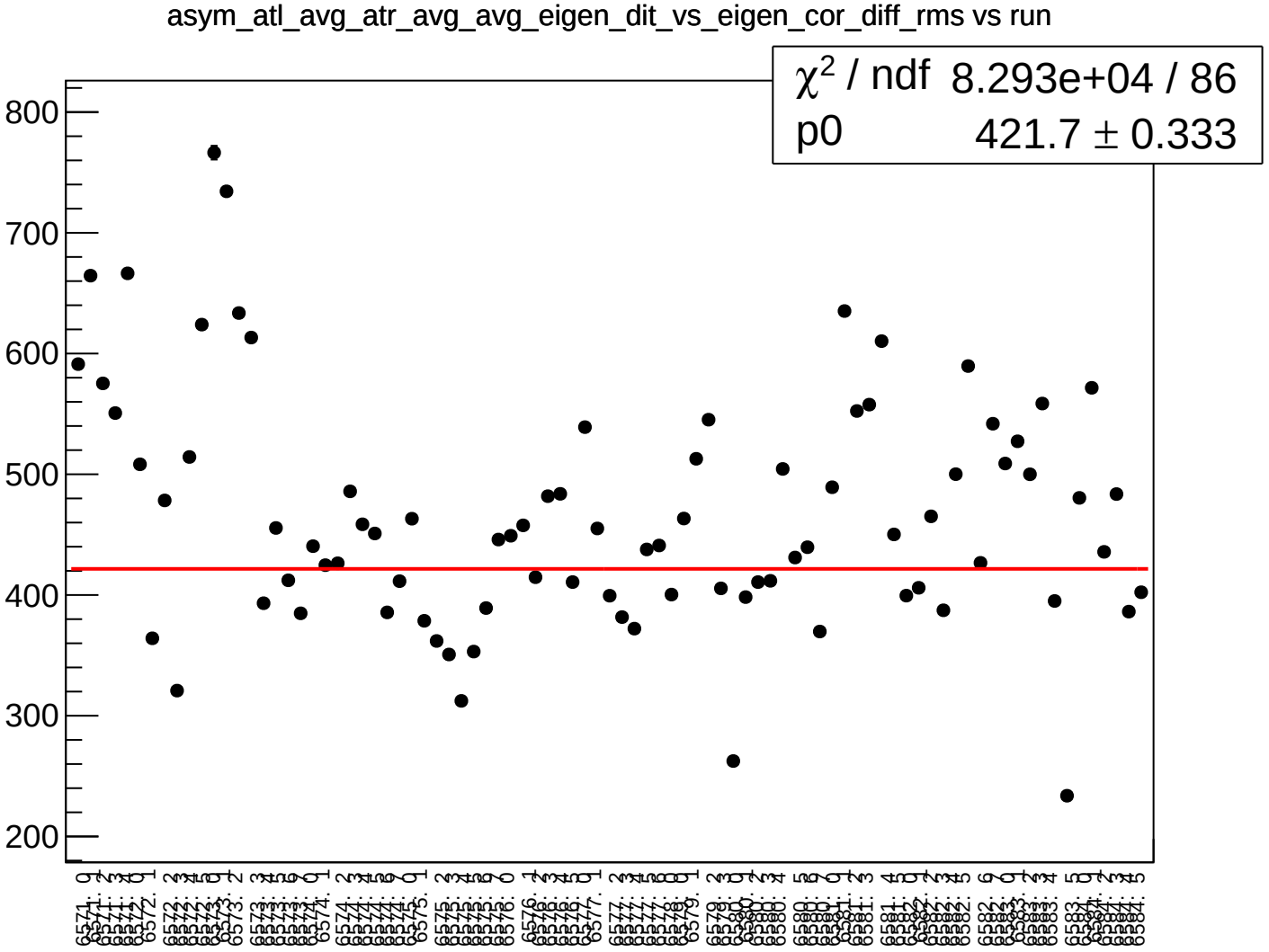

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.161e+04 / 86
p0 0.006653 ± 5.14e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

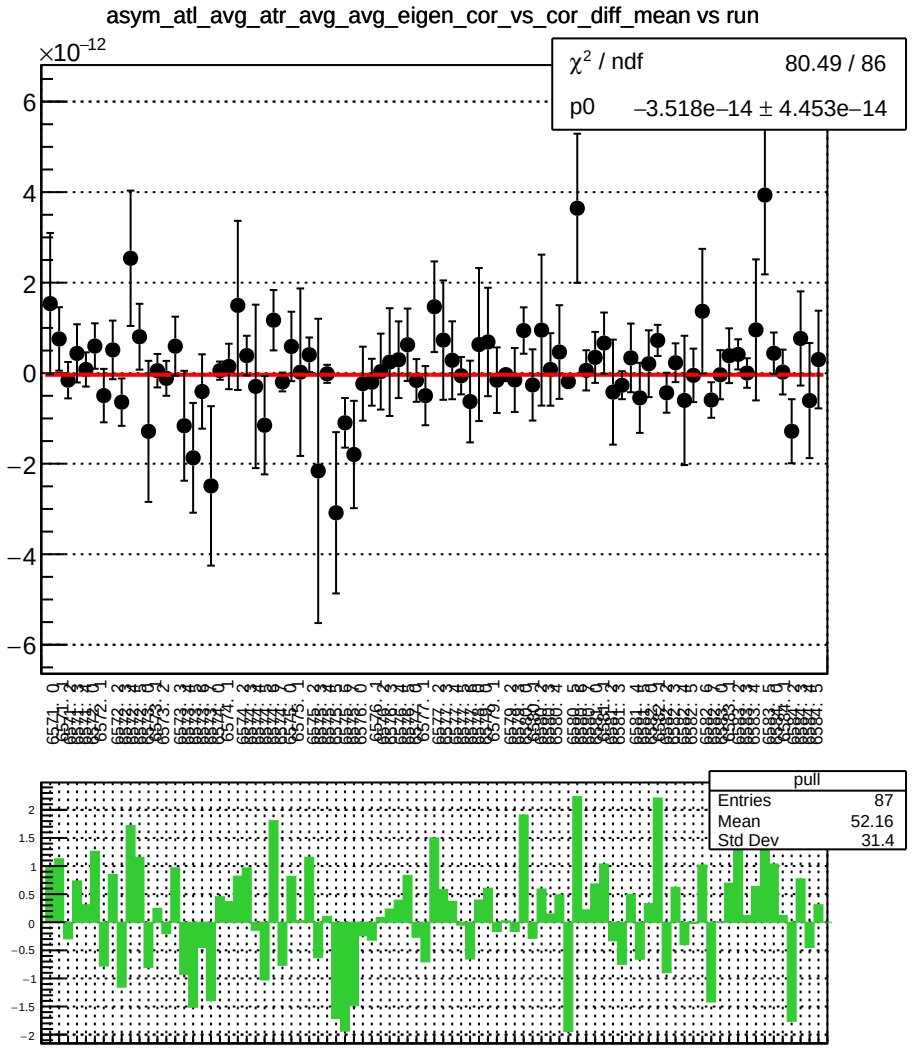

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.05 / 86
p0 0.03233 ± 0.4709
pull
Entries 87
Mean 78.71
Std Dev 39.26
pull1D
Entries 87
Mean 0.05509
Std Dev 1.027

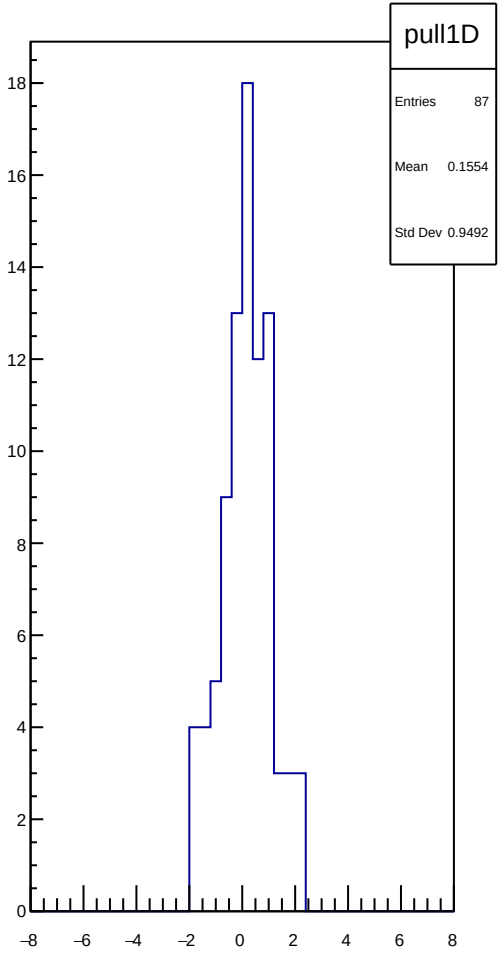

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.293e+04 / 86
p0 421.7 ± 0.333
800
700
600
500
400
300
200

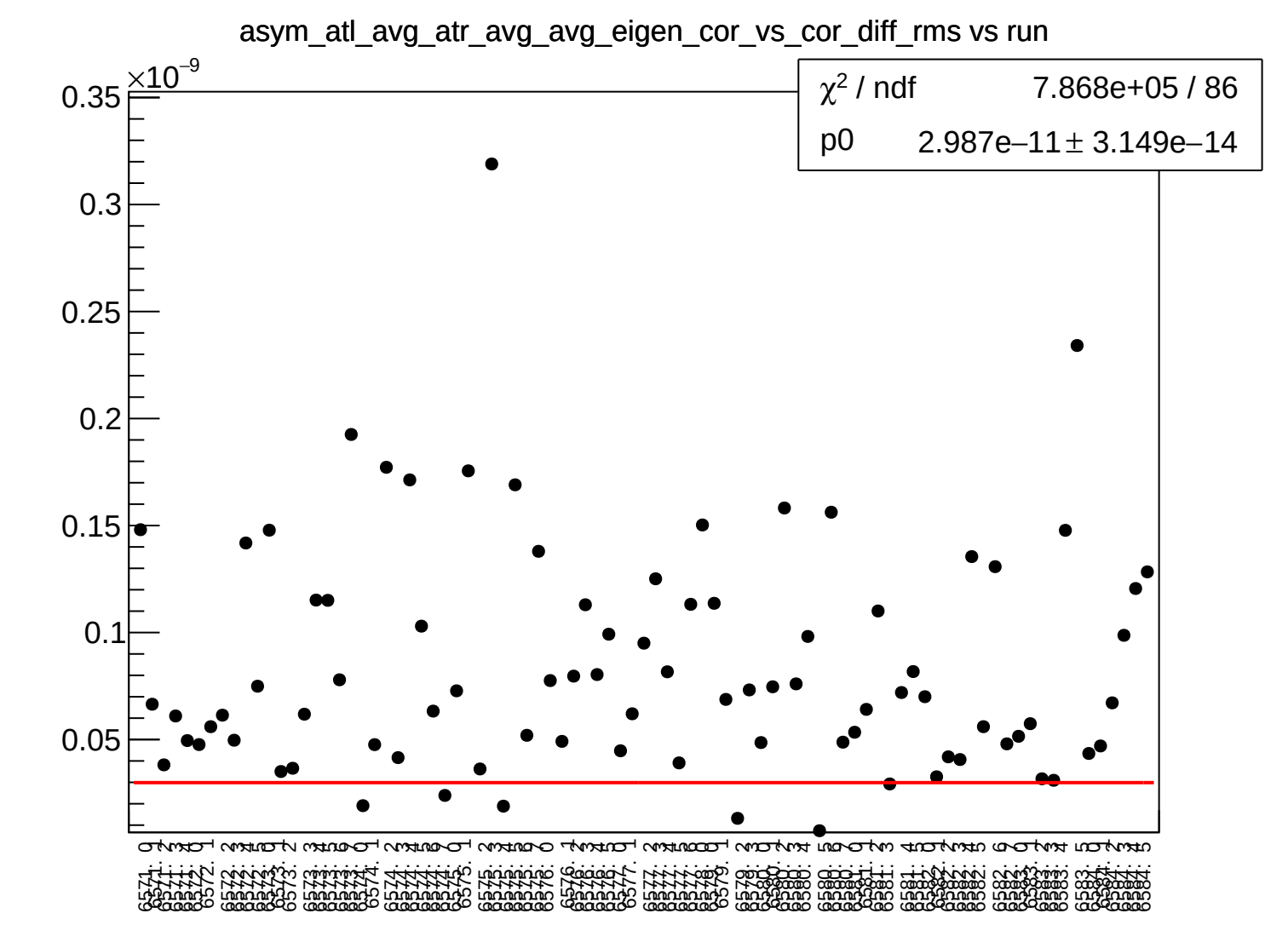

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.05 / 86
p0 0.03233 ± 0.4709
pull
Entries 87
Mean 78.71
Std Dev 39.26

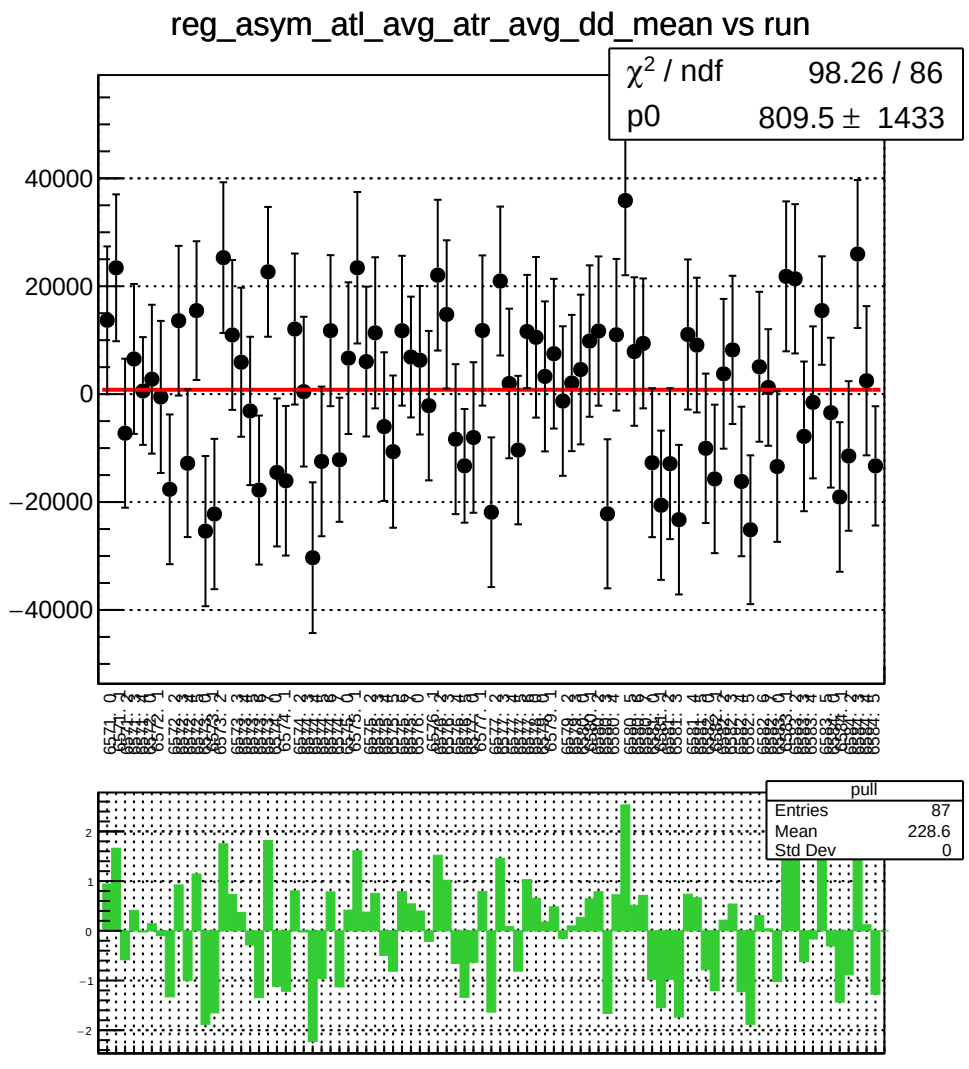

pull1D
Entries 87
Mean 0.05509
Std Dev 1.027

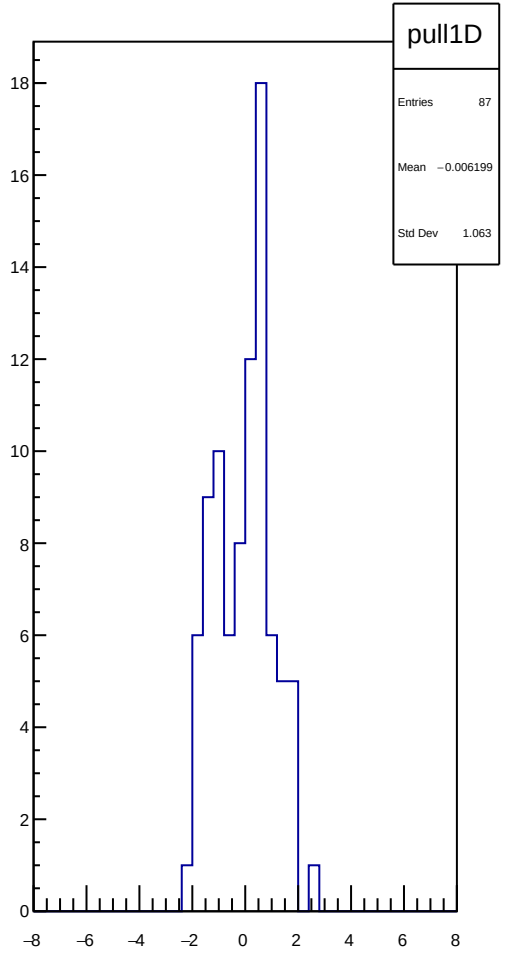

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.293e+04 / 86
p0 421.7 ± 0.333
800
700
600
500
400
300
200

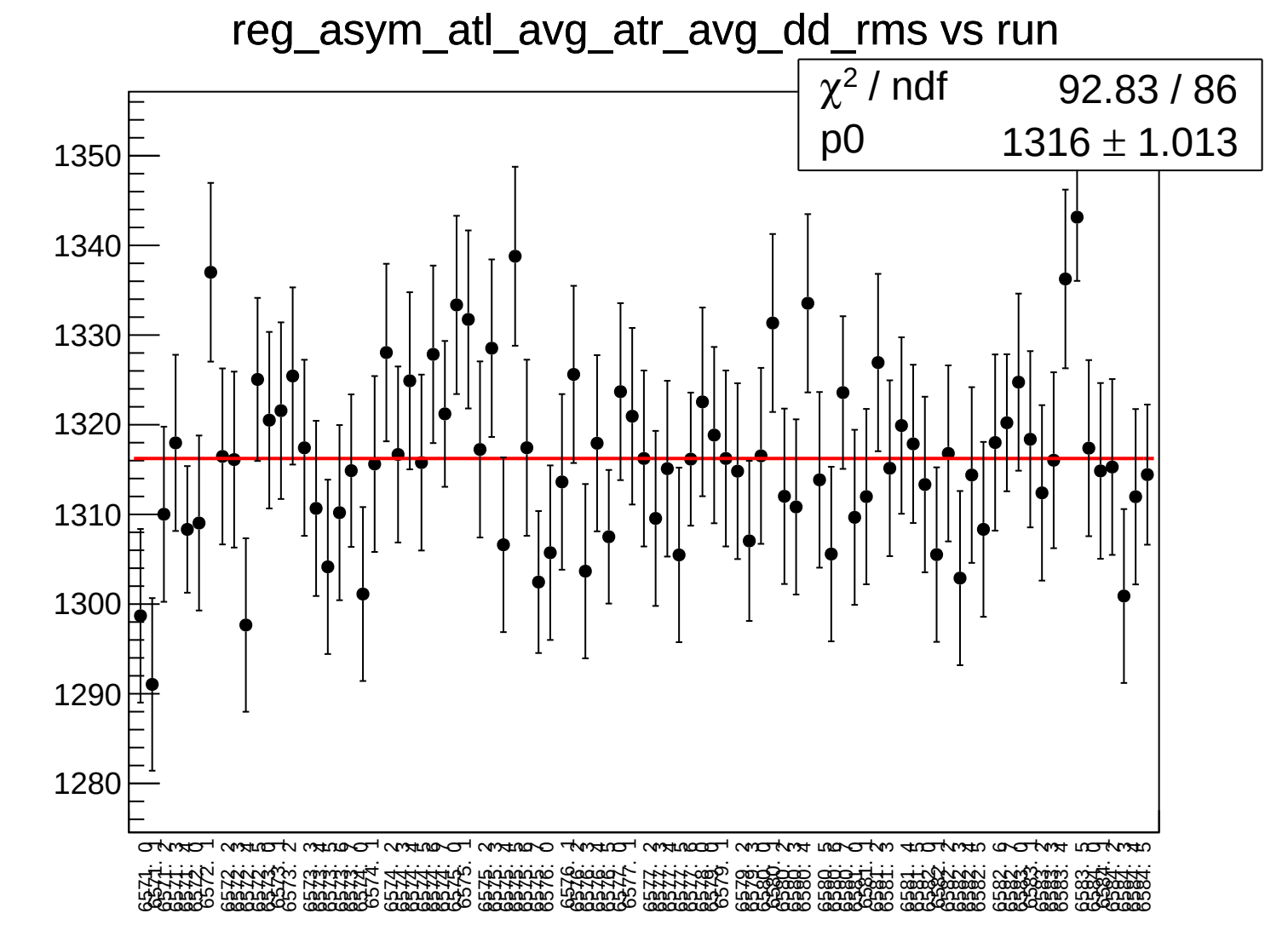

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.49 / 86
p0 −3.518e−14 ± 4.453e−14
pull
Entries 87
Mean 52.16
Std Dev 31.4

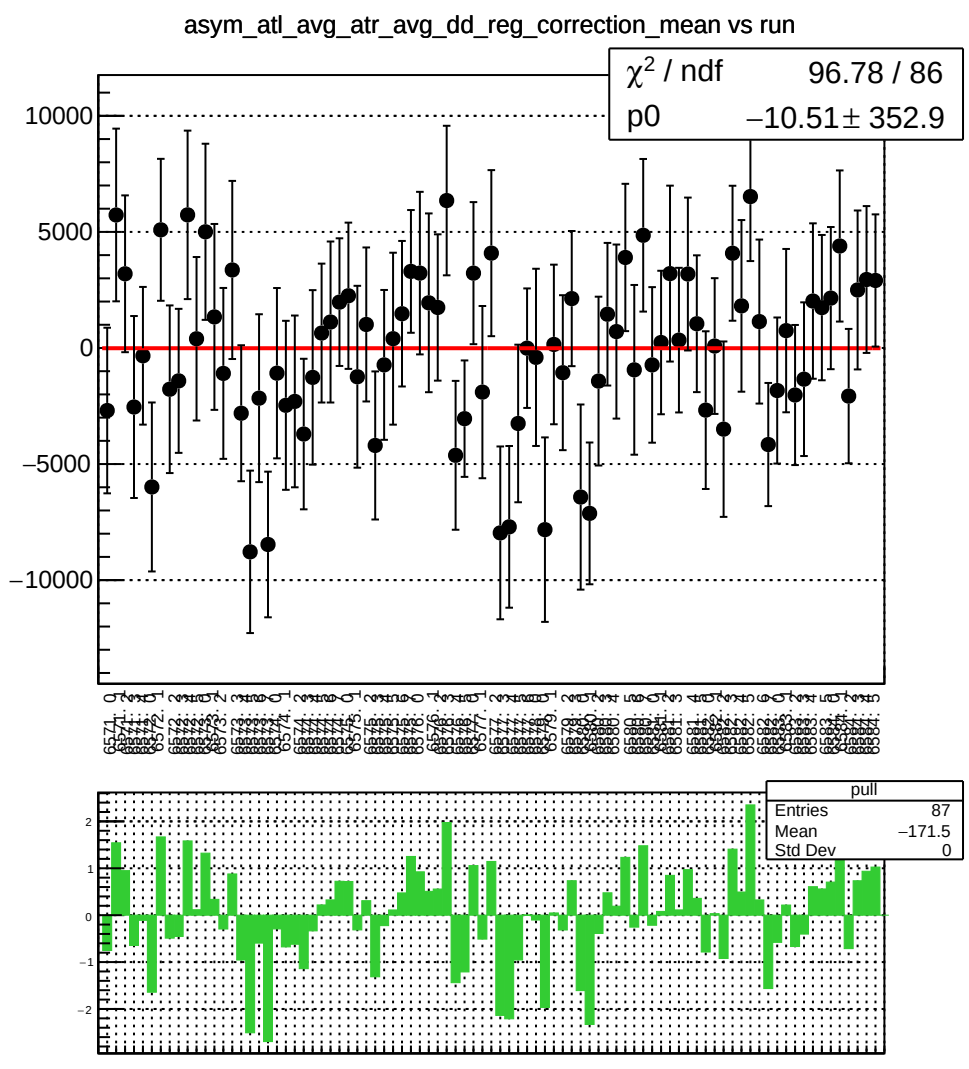

pull1D
Entries 87
Mean 0.1554
Std Dev 0.9492

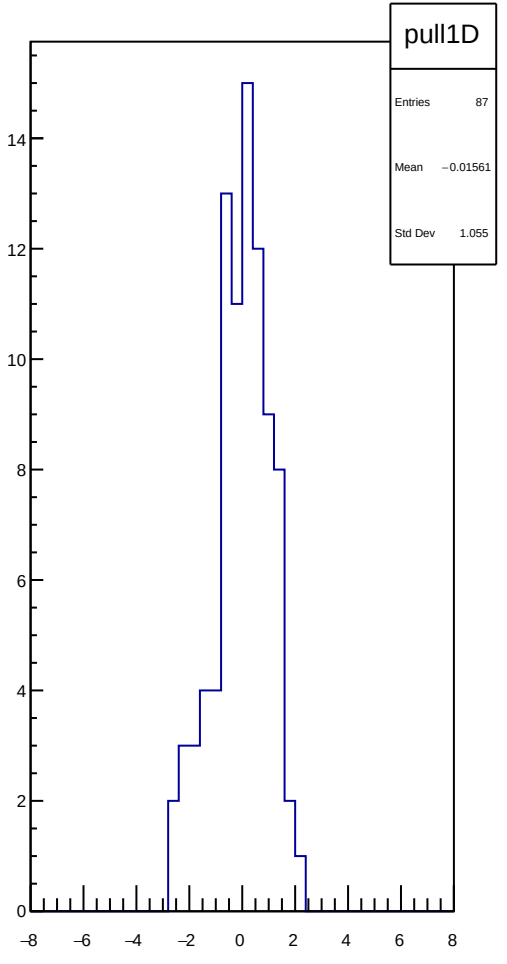

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 7.868e+05 / 86
p0 2.987e−11 ± 3.149e−14

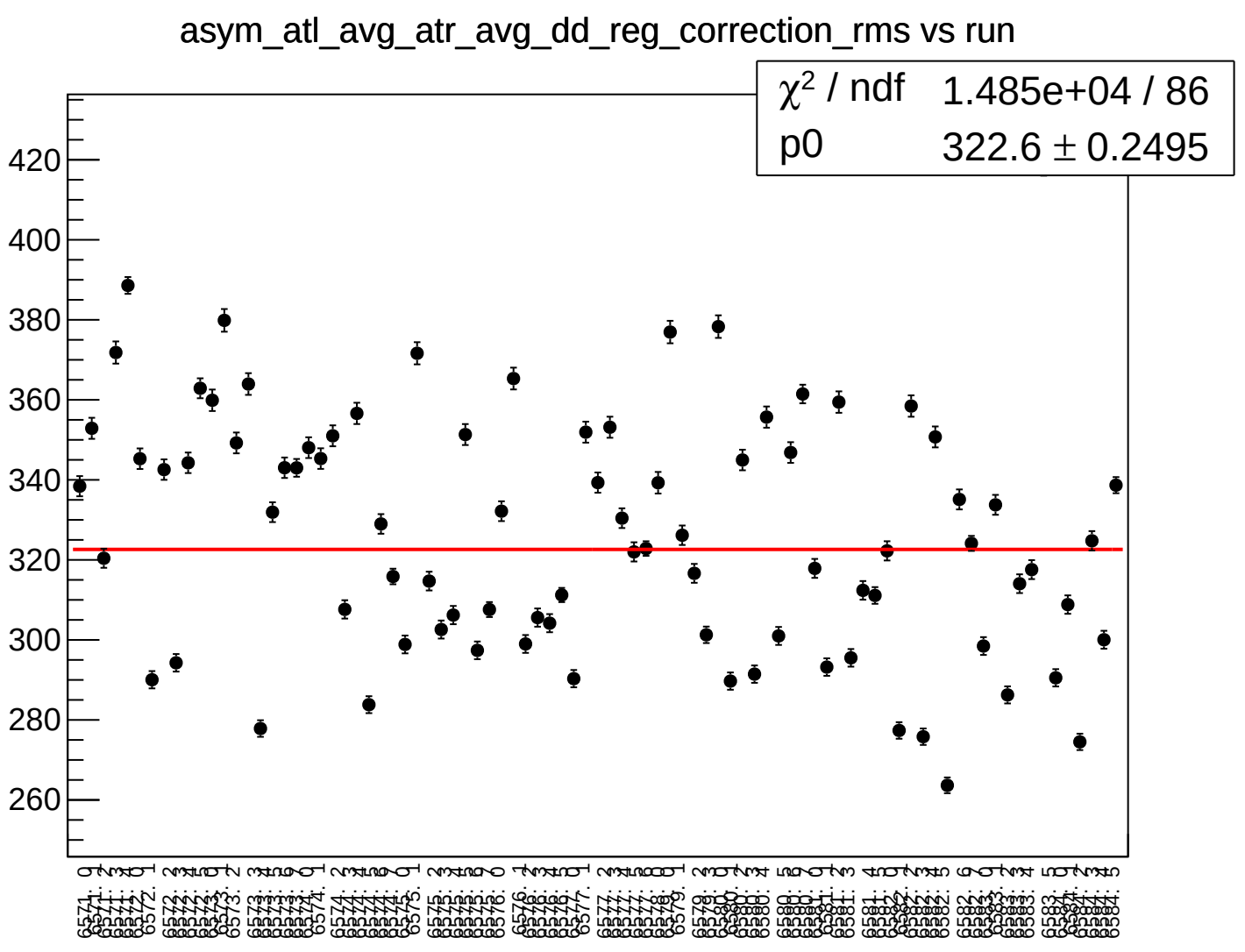

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 98.26 / 86
p0 809.5 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 228.6
Std Dev 0
2
1
0
−1
−2

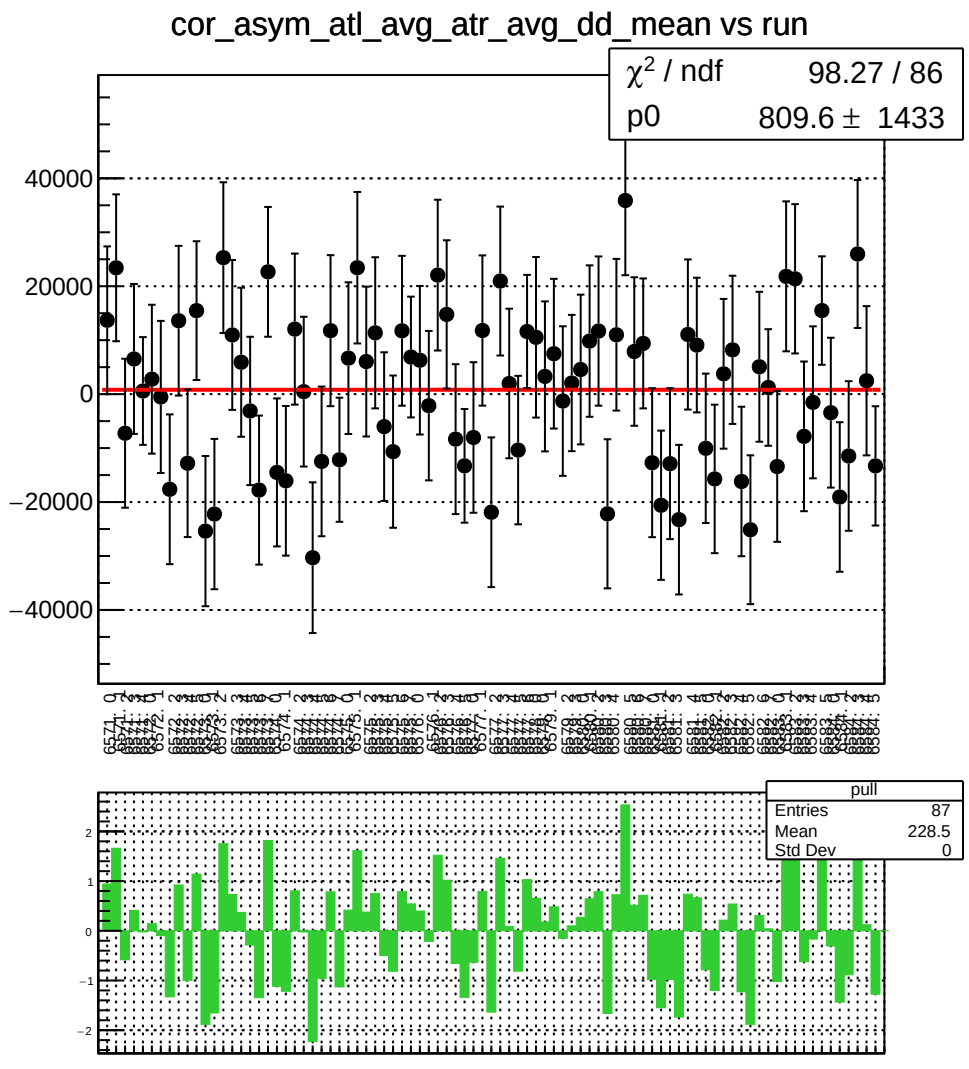

pull1D
Entries 87
Mean −0.006199
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

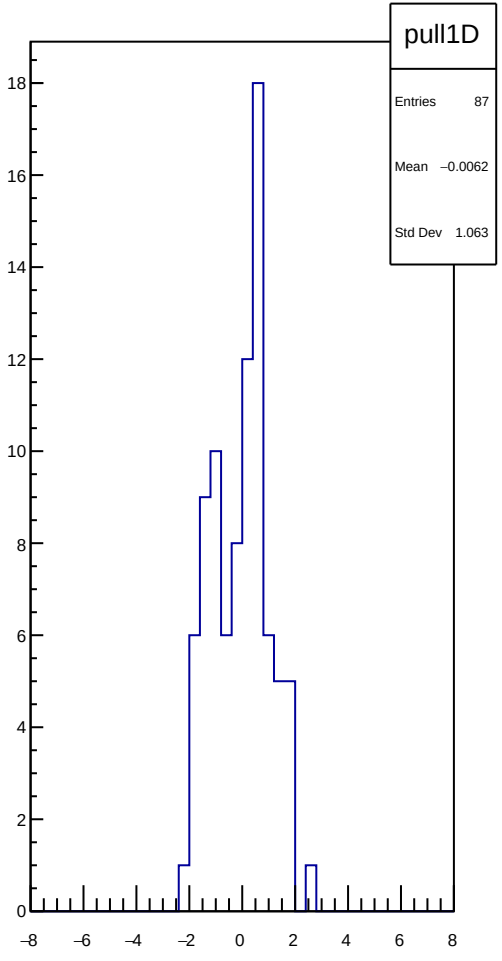

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 92.83 / 86
p0 1316 ± 1.013
1350
1340
1330
1320
1310
1300
1290
1280

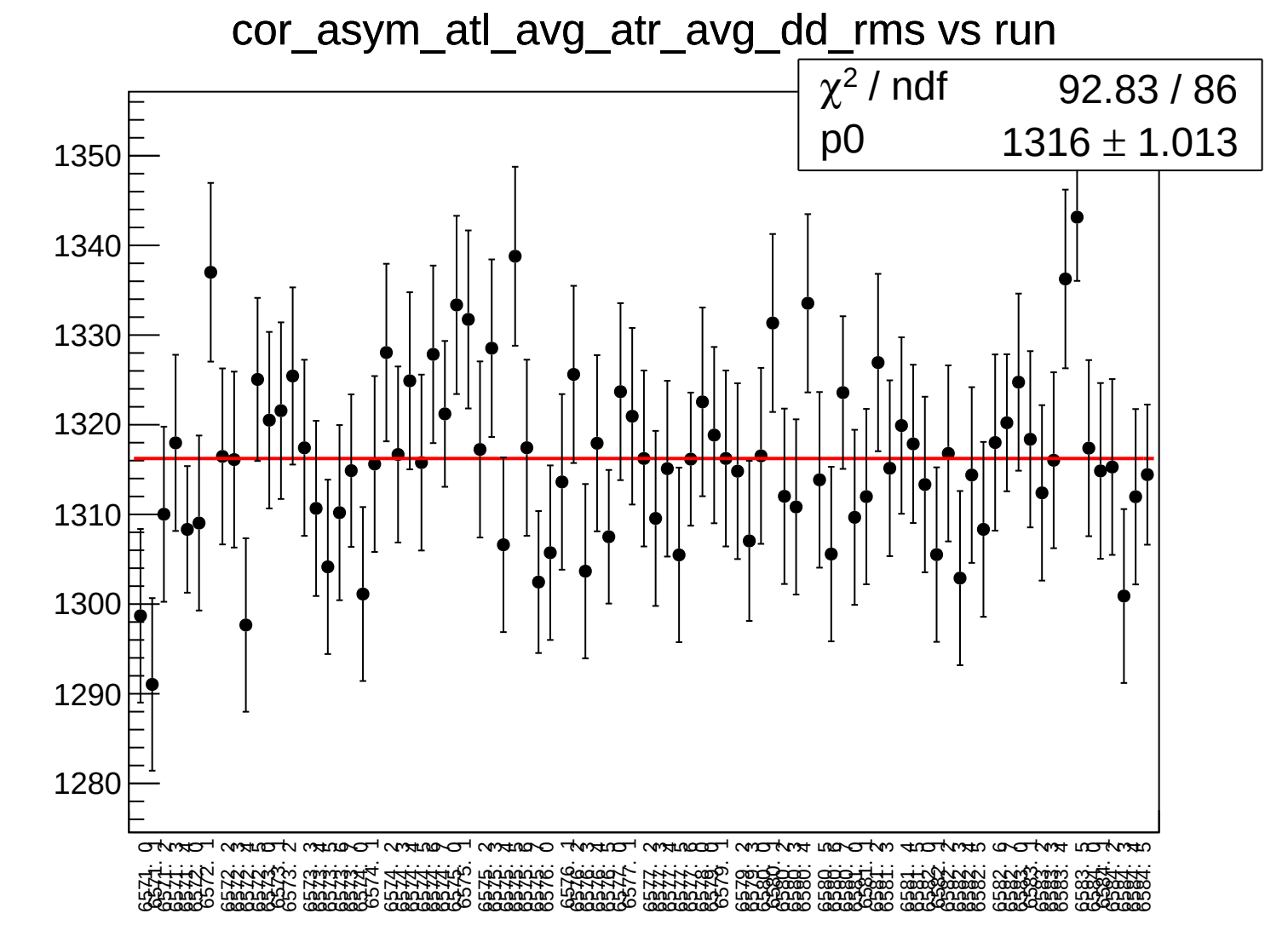

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 96.78 / 86
p0 −10.51 ± 352.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −171.5
Std Dev 0
2
1
0
−1
−2

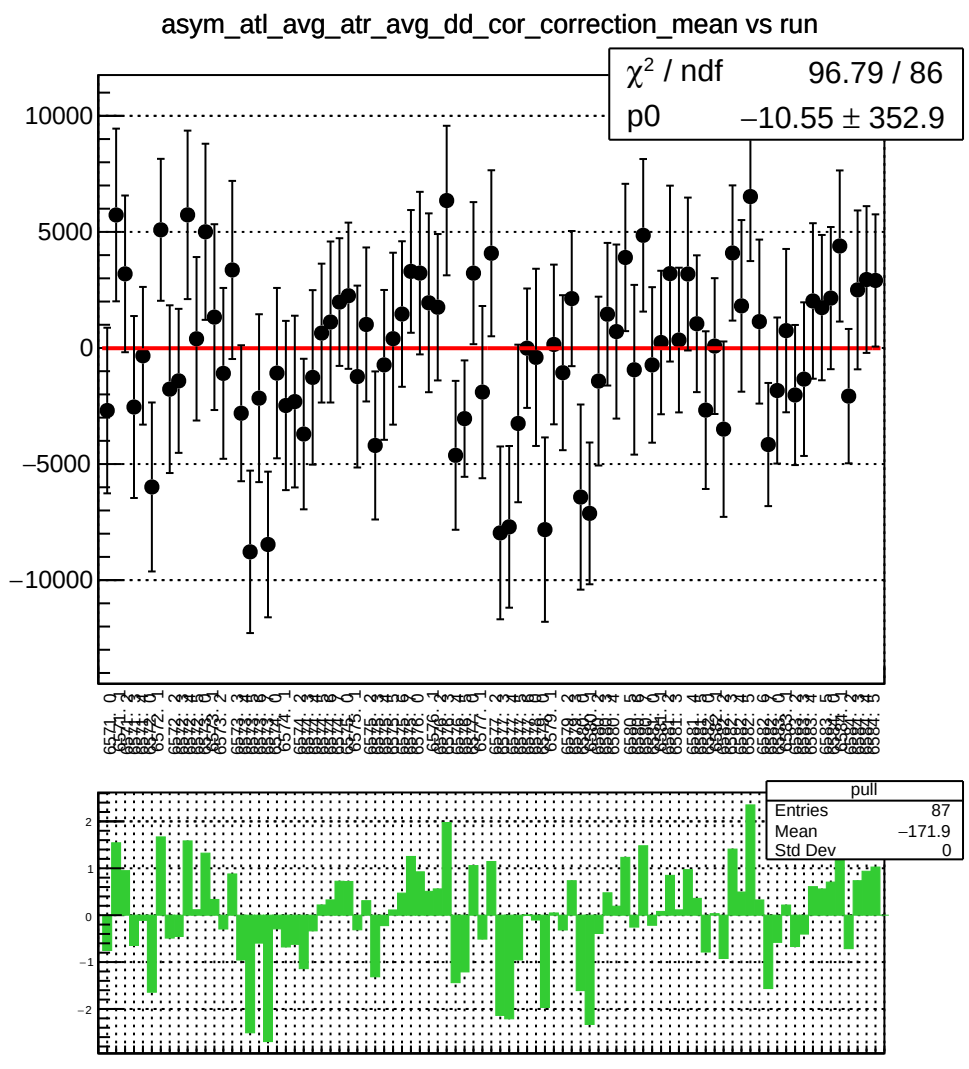

pull1D
Entries 87
Mean −0.01561
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

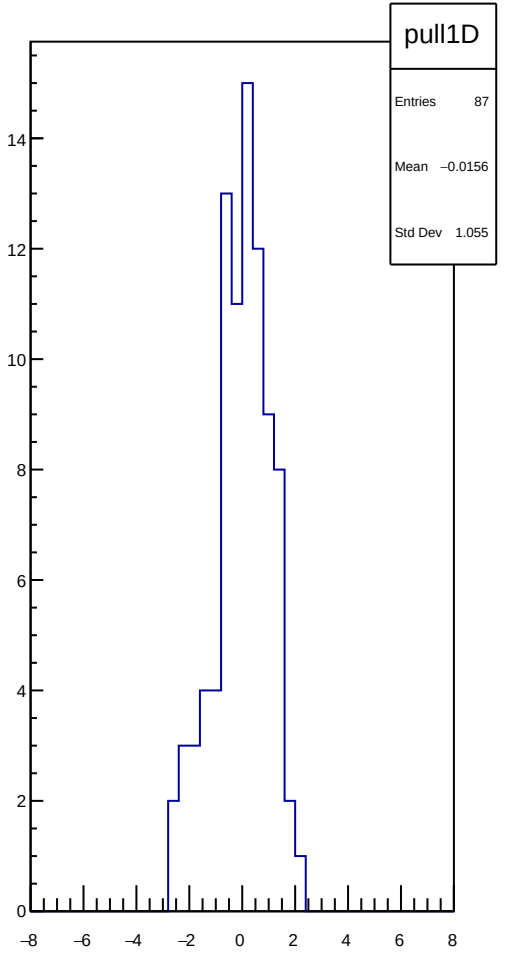

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.485e+04 / 86
p0 322.6 ± 0.2495
420
400
380
360
340
320
300
280
260

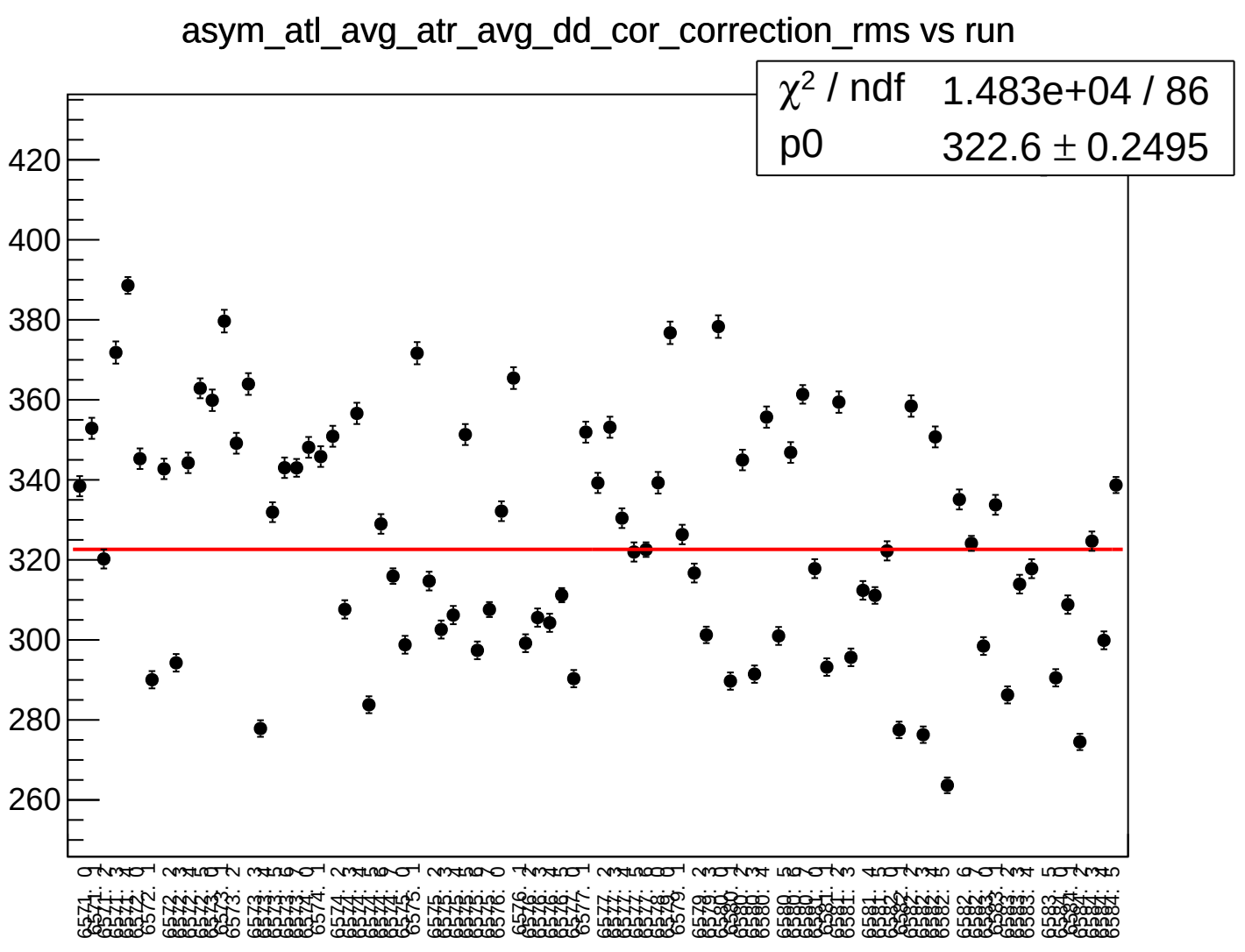

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 98.27 / 86
p0 809.6 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 228.5
Std Dev 0
2
1
0
−1
−2

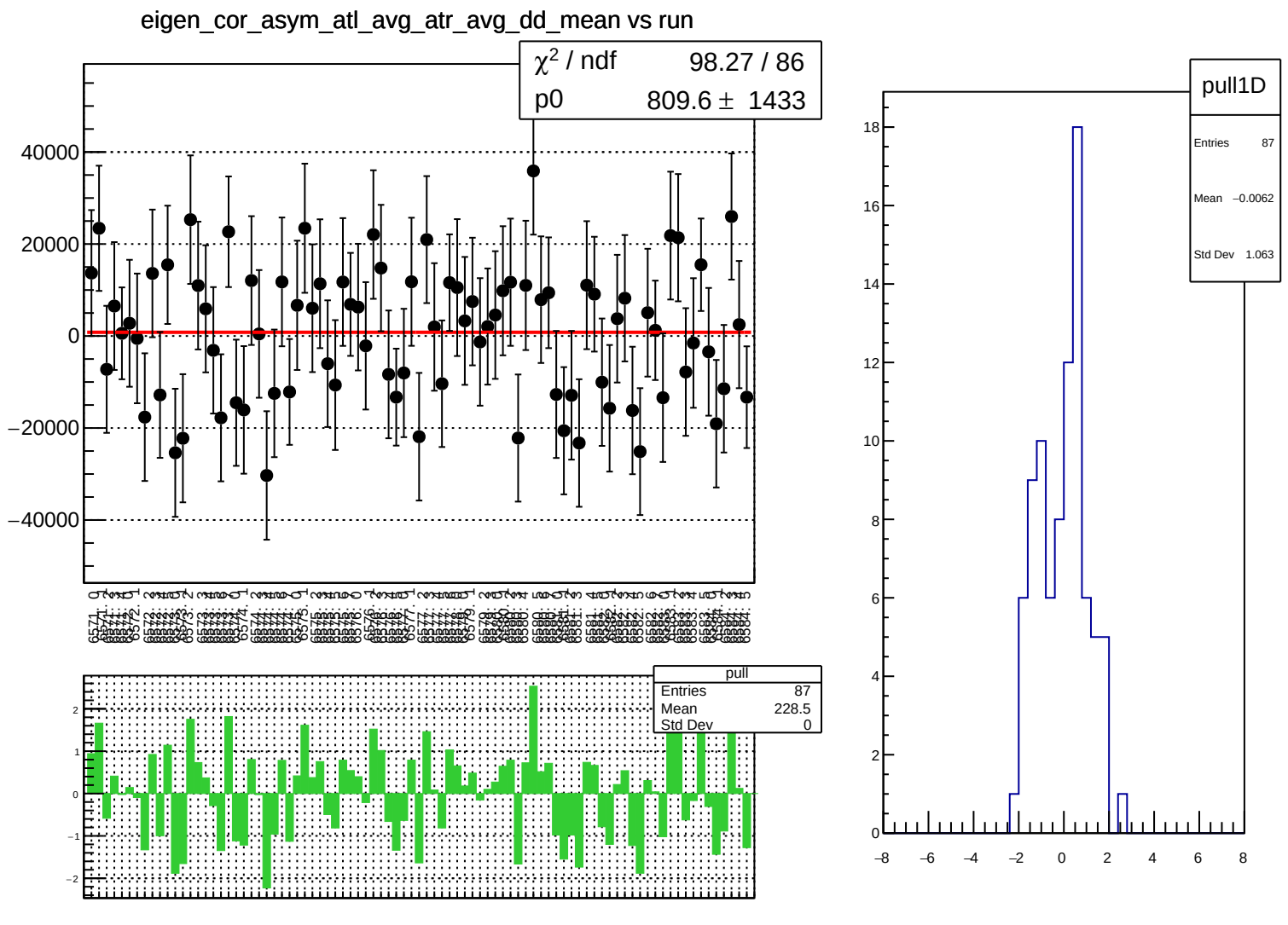

pull1D
Entries 87
Mean −0.0062
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

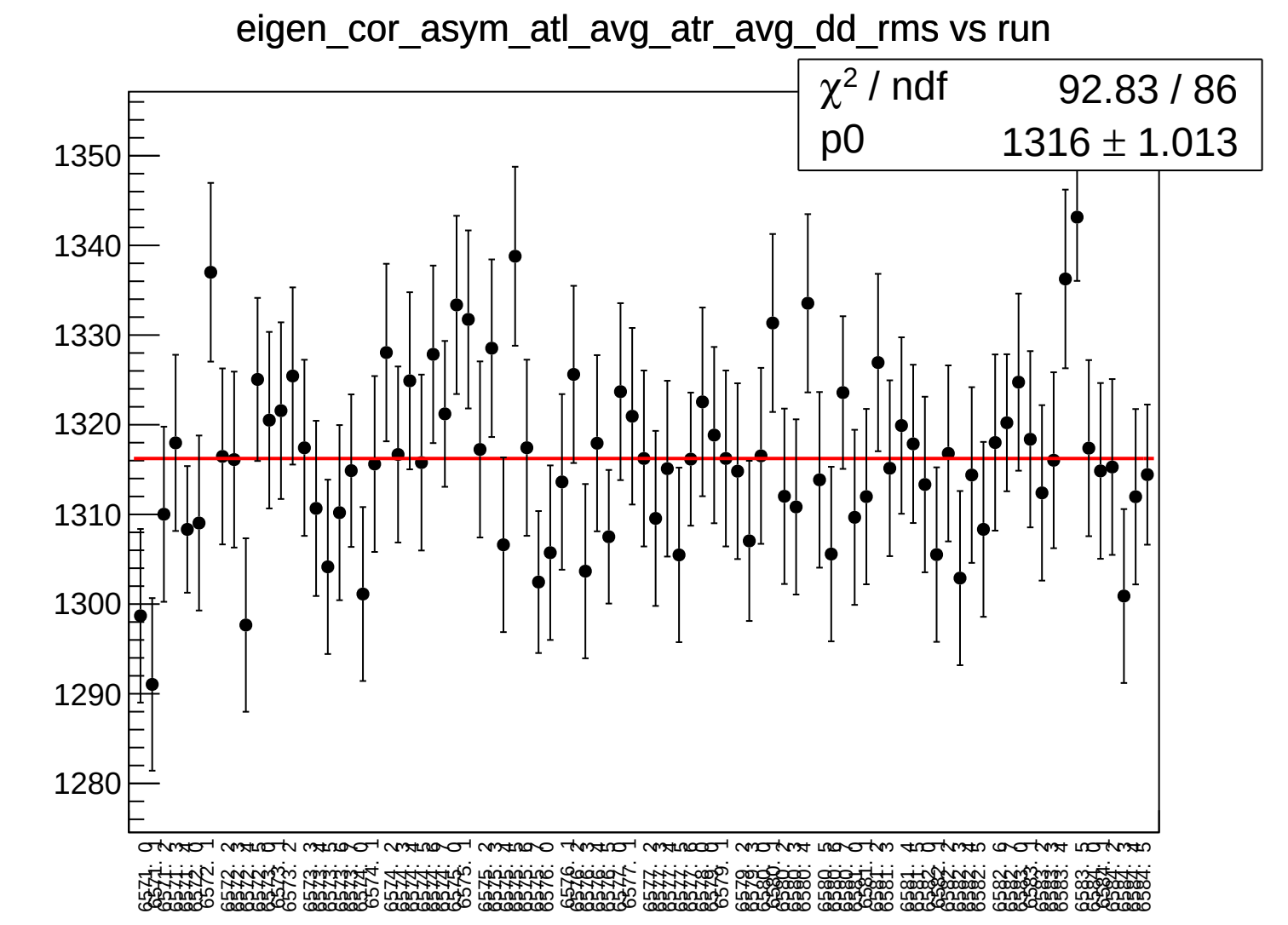

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 92.83 / 86
p0 1316 ± 1.013
1350
1340
1330
1320
1310
1300
1290
1280

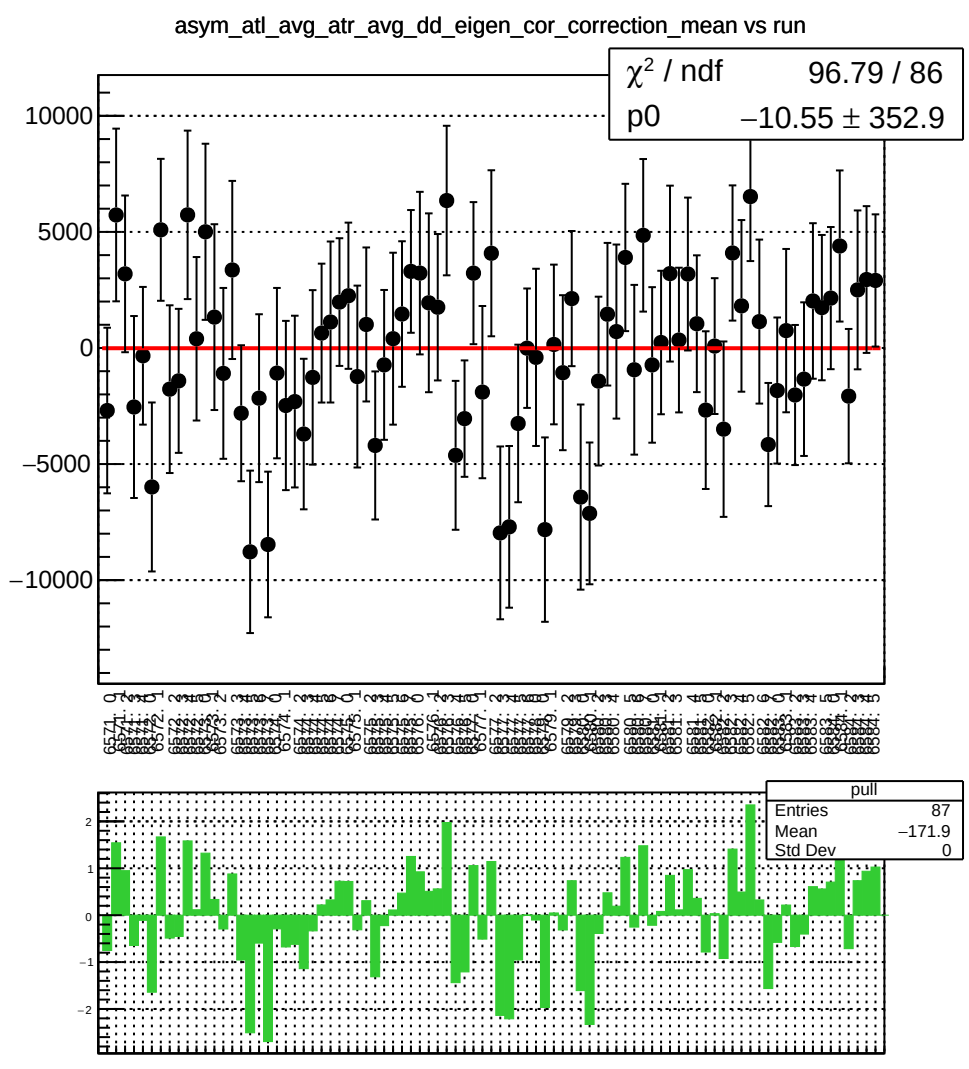

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 96.79 / 86
p0 −10.55 ± 352.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −171.9
Std Dev 0
2
1
0
−1
−2

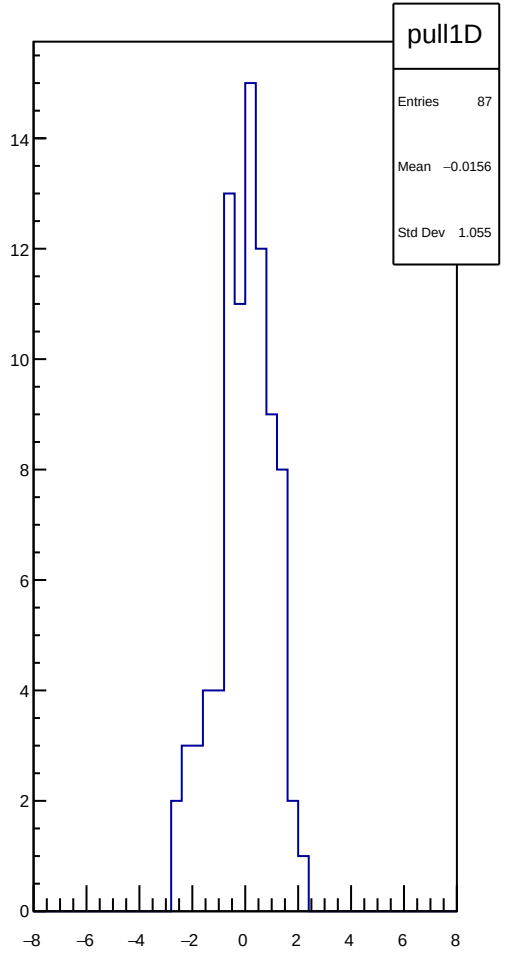

pull1D
Entries 87
Mean −0.0156
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

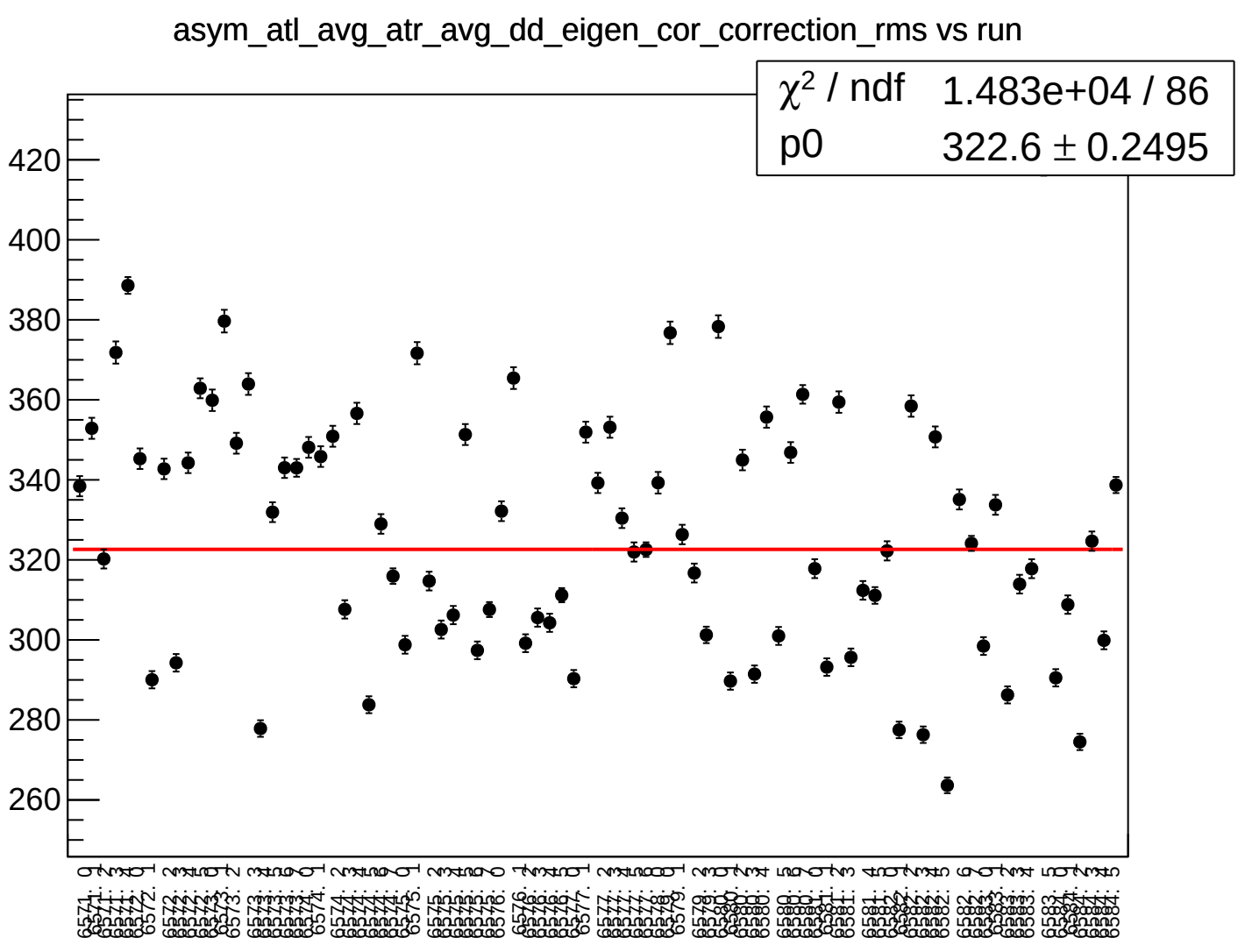

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.483e+04 / 86
p0 322.6 ± 0.2495
420
400
380
360
340
320
300
280
260

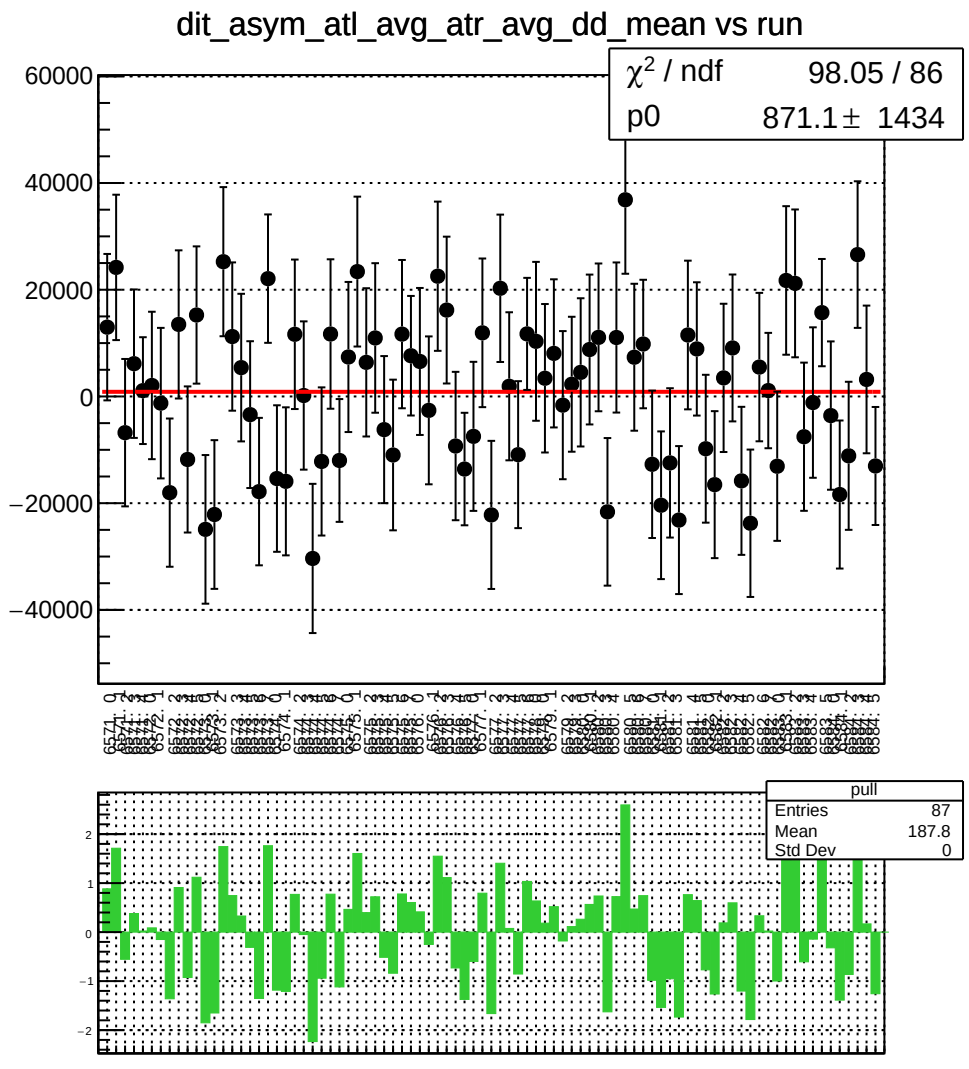

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 98.27 / 86
p0 809.6 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 228.5
Std Dev 0
pull1D
Entries 87
Mean −0.0062
Std Dev 1.063

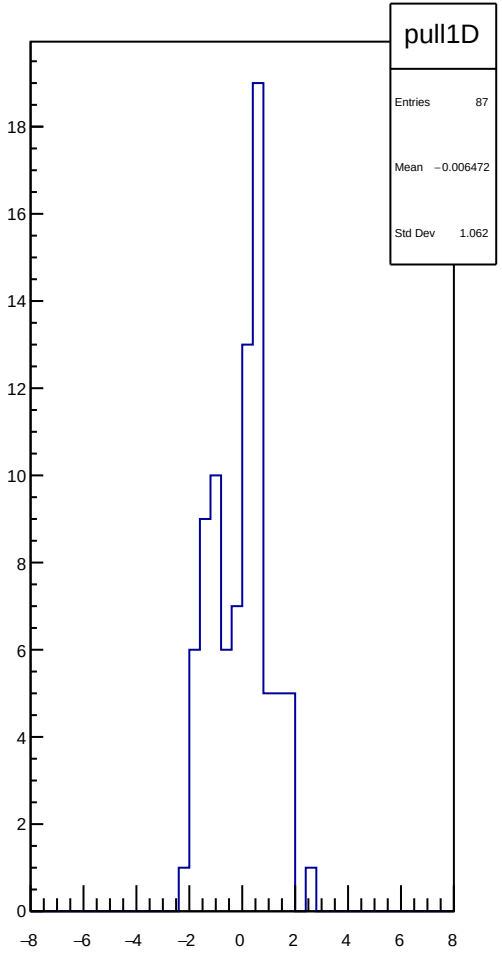

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 92.83 / 86
p0 1316 ± 1.013
1350
1340
1330
1320
1310
1300
1290
1280

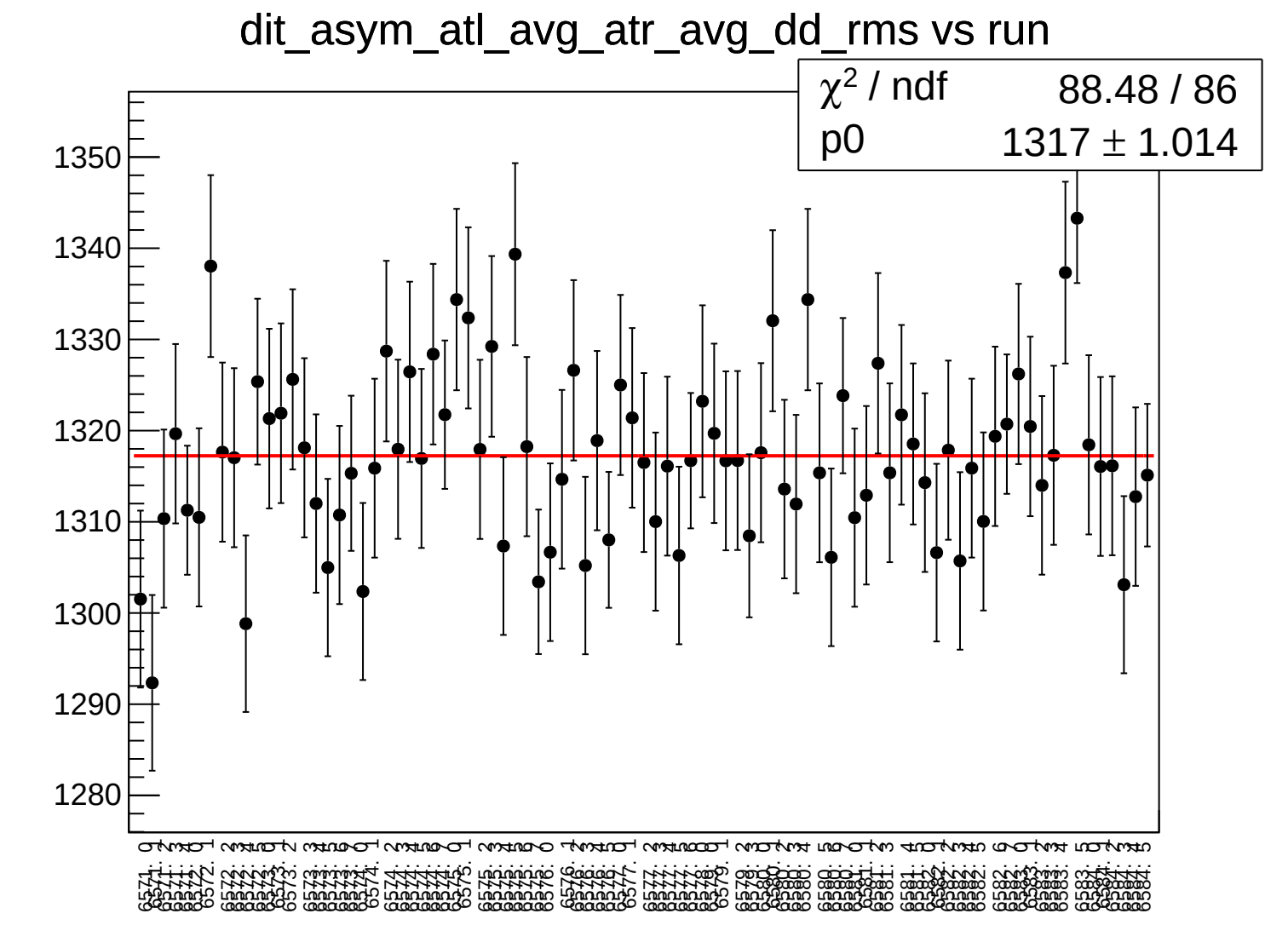

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.79 / 86
p0 −10.55 ± 352.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −171.9
Std Dev 0
2
1
0
−1
−2

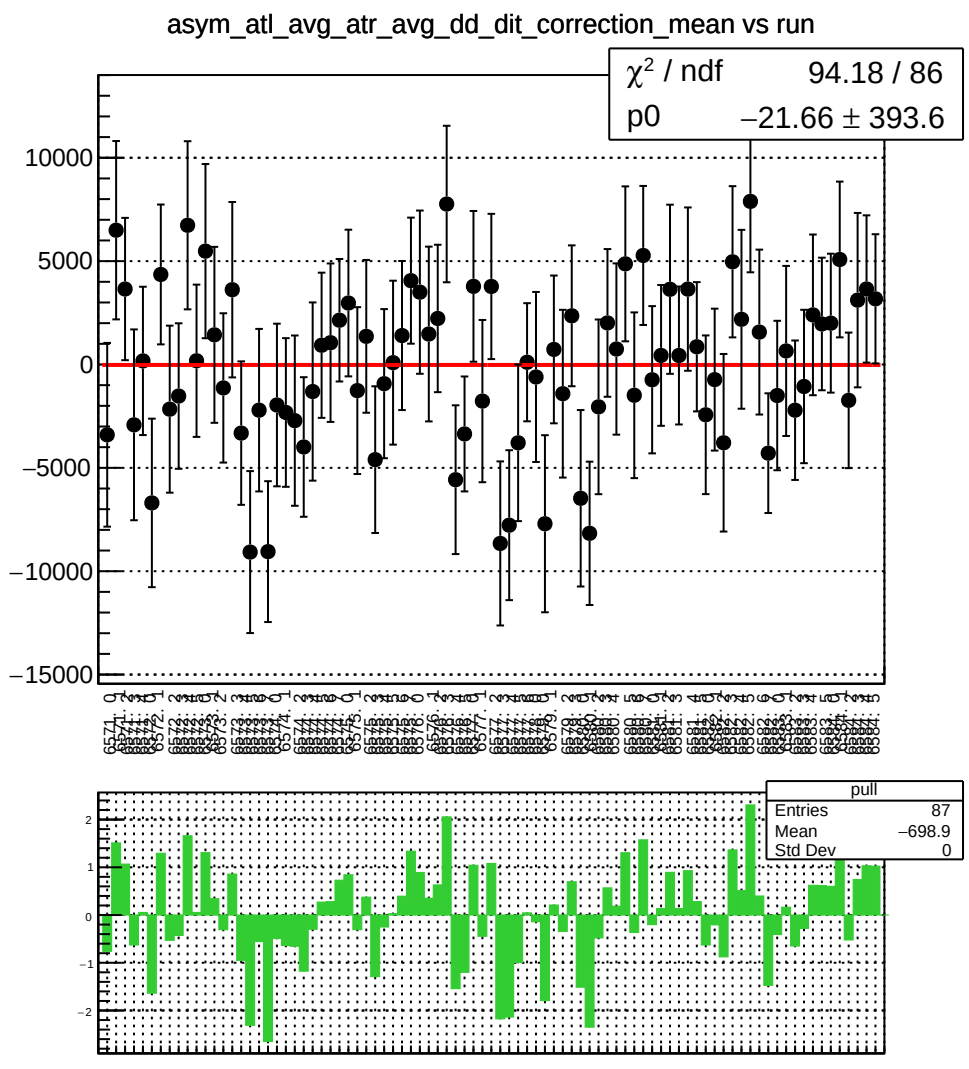

pull1D
Entries 87
Mean −0.0156
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

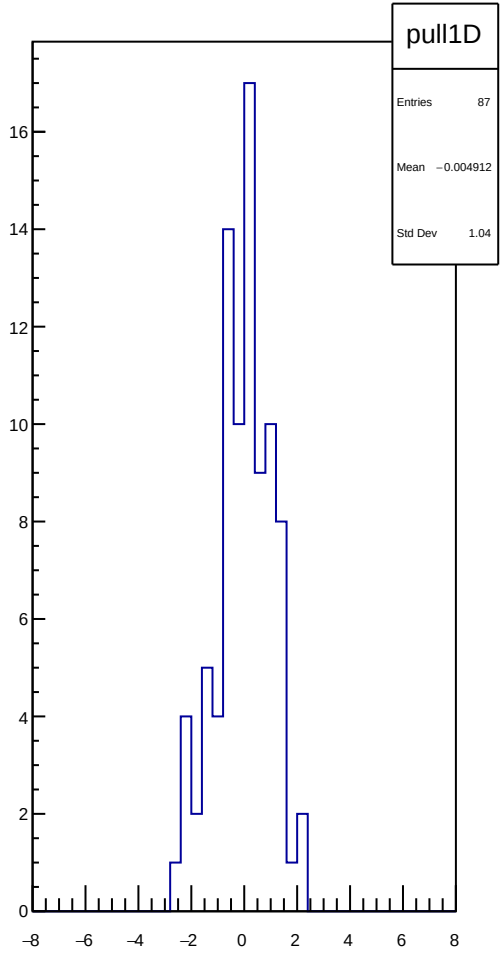

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.483e+04 / 86
p0 322.6 ± 0.2495
420
400
380
360
340
320
300
280
260

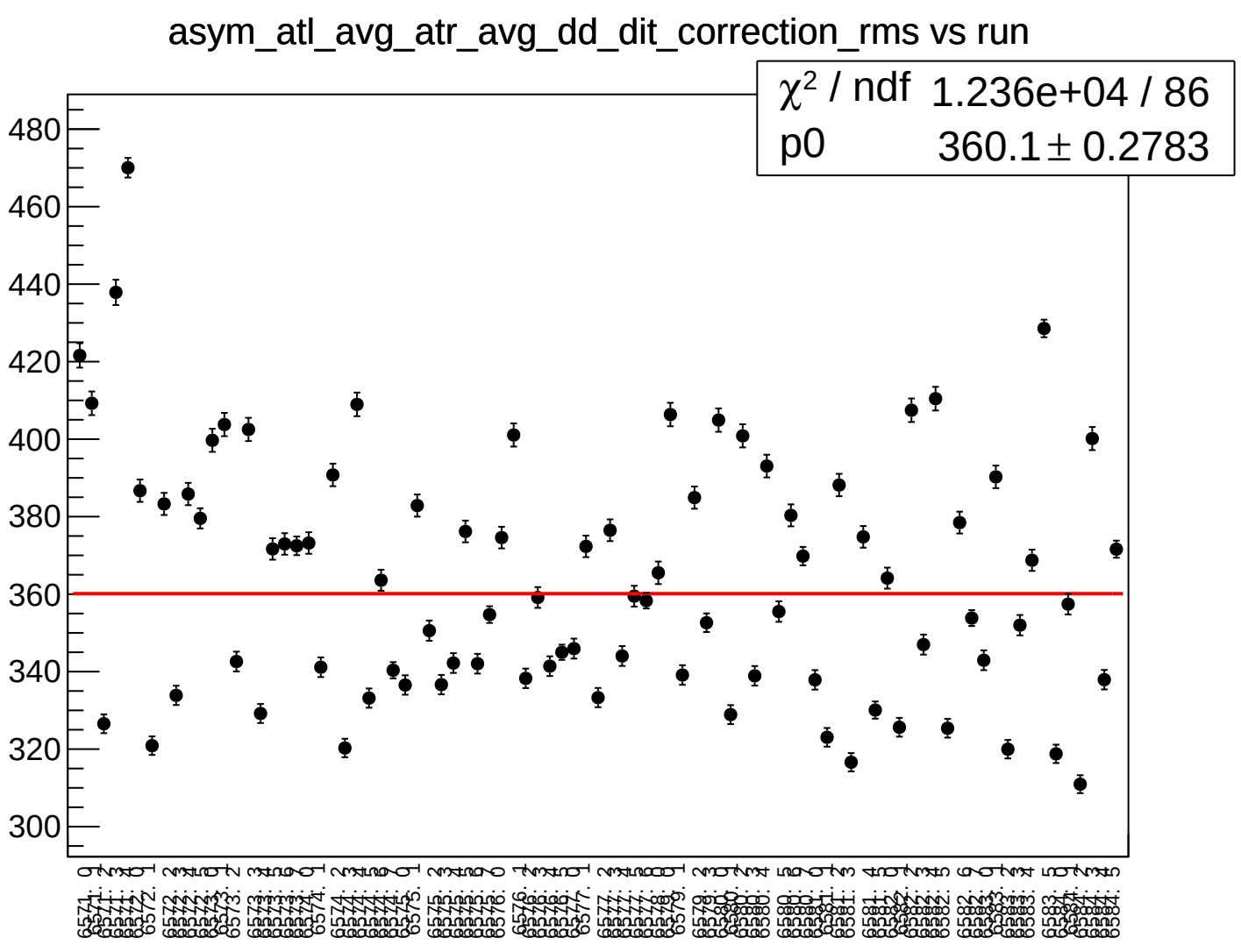

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 98.05 / 86
p0 871.1 ± 1434
pull
Entries 87
Mean 187.8
Std Dev 0

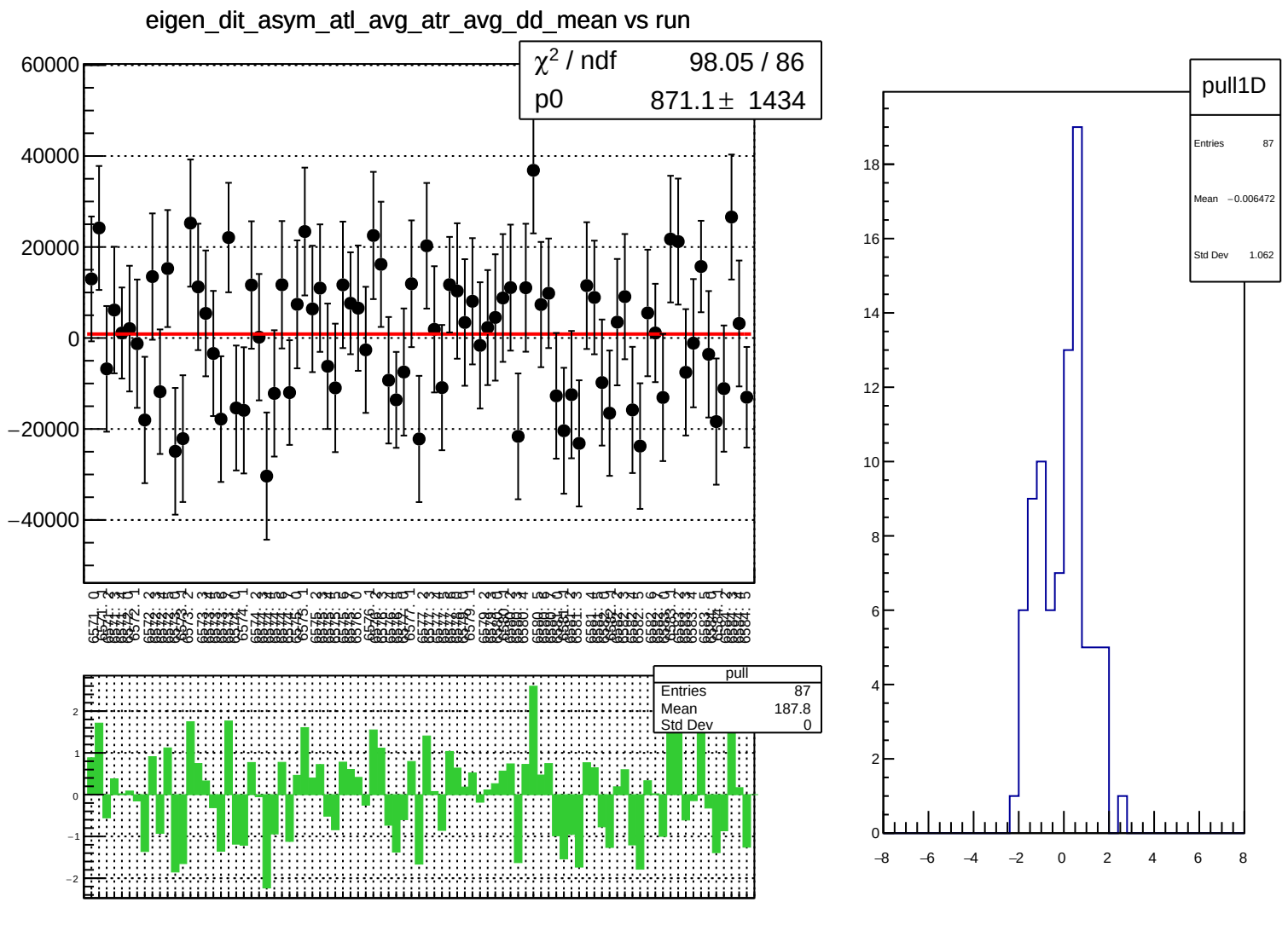

pull1D
Entries 87
Mean −0.006472
Std Dev 1.062

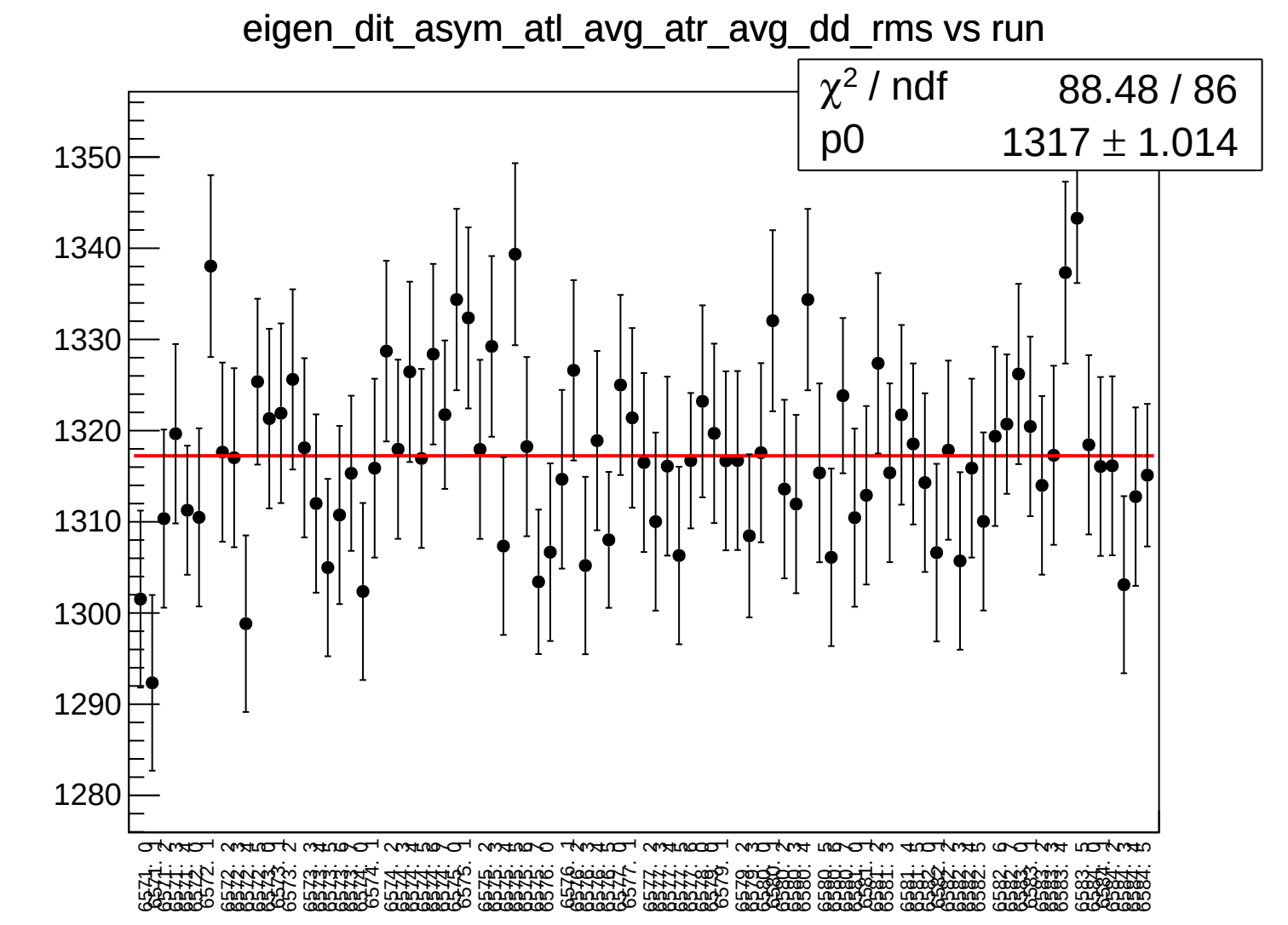

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 88.48 / 86
p0 1317 ± 1.014
1350
1340
1330
1320
1310
1300
1290
1280

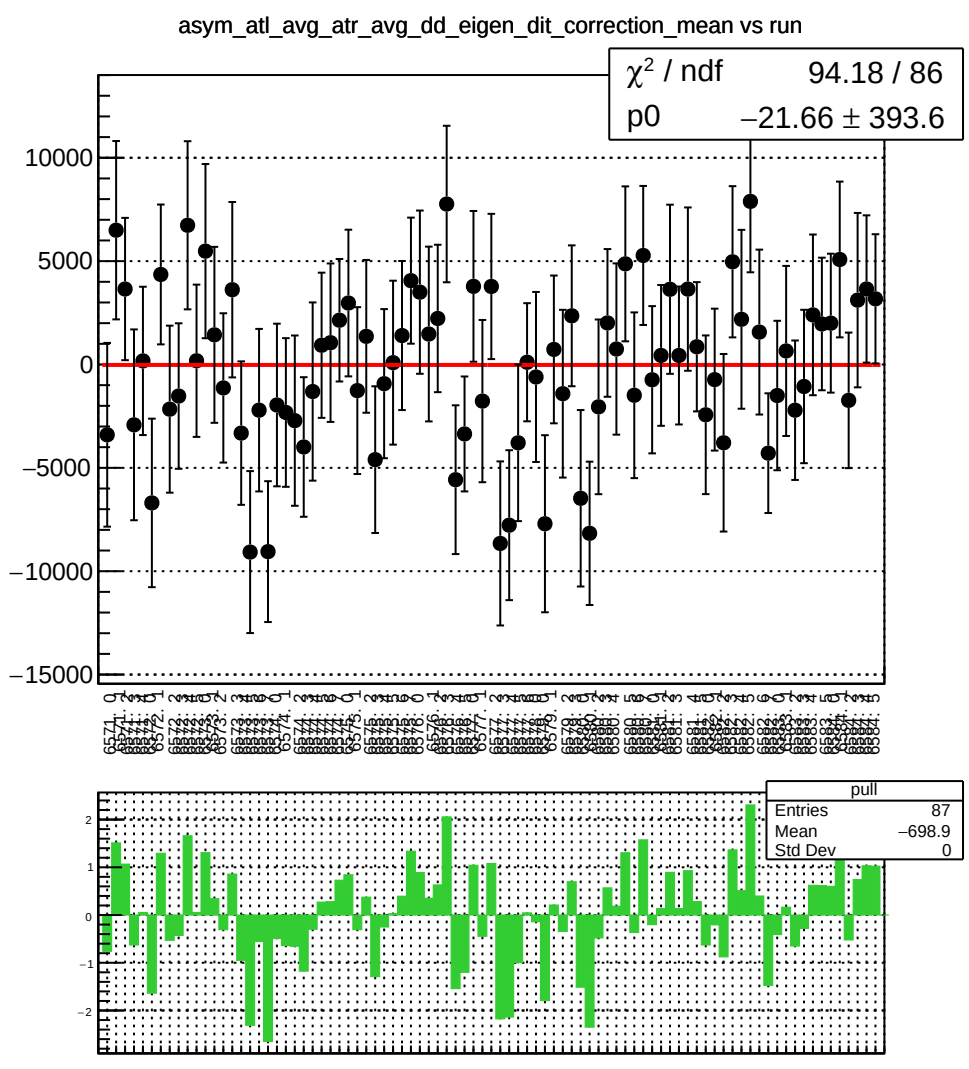

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 94.18 / 86
p0 −21.66 ± 393.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −698.9
Std Dev 0
2
1
0
−1
−2

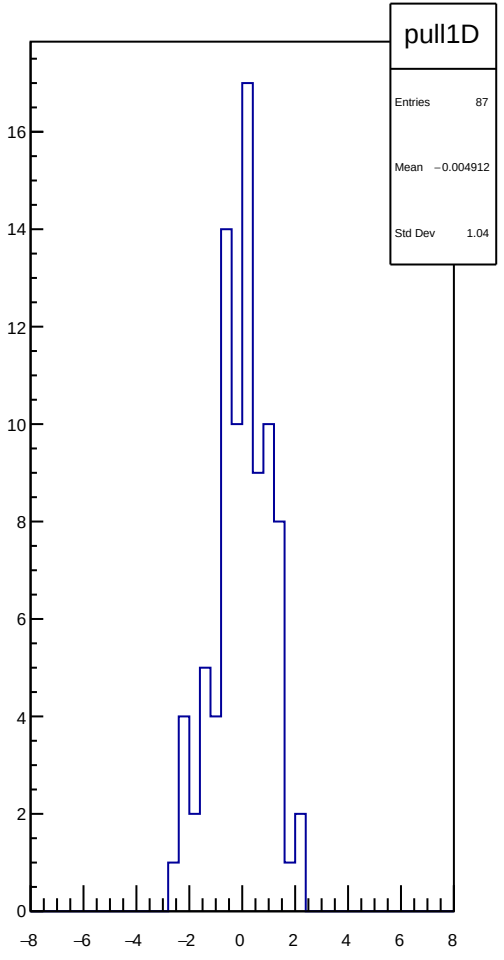

pull1D
Entries 87
Mean −0.004912
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

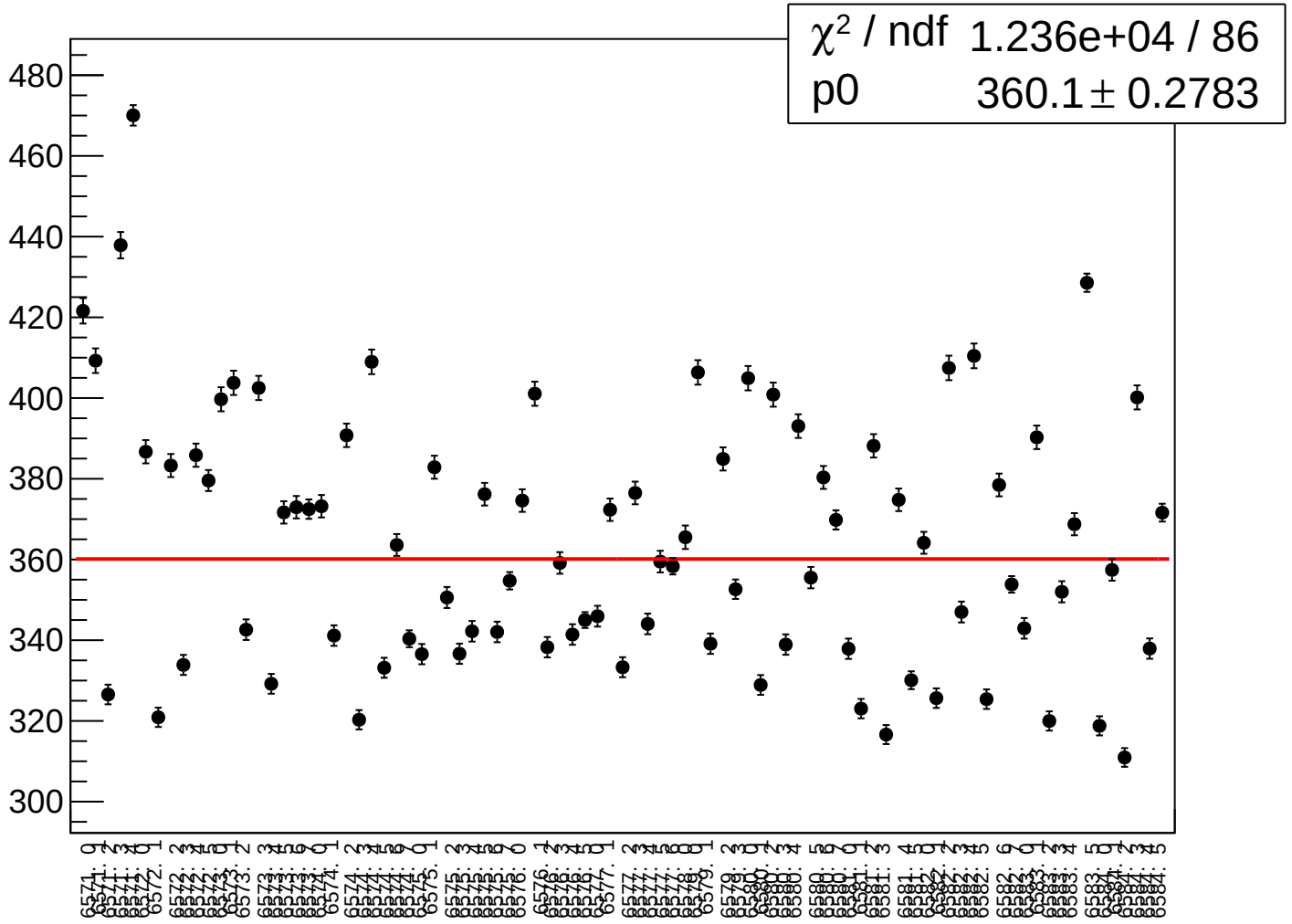

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.236e+04 / 86
p0 360.1 ± 0.2783
480
460
440
420
400
380
360
340
320
300

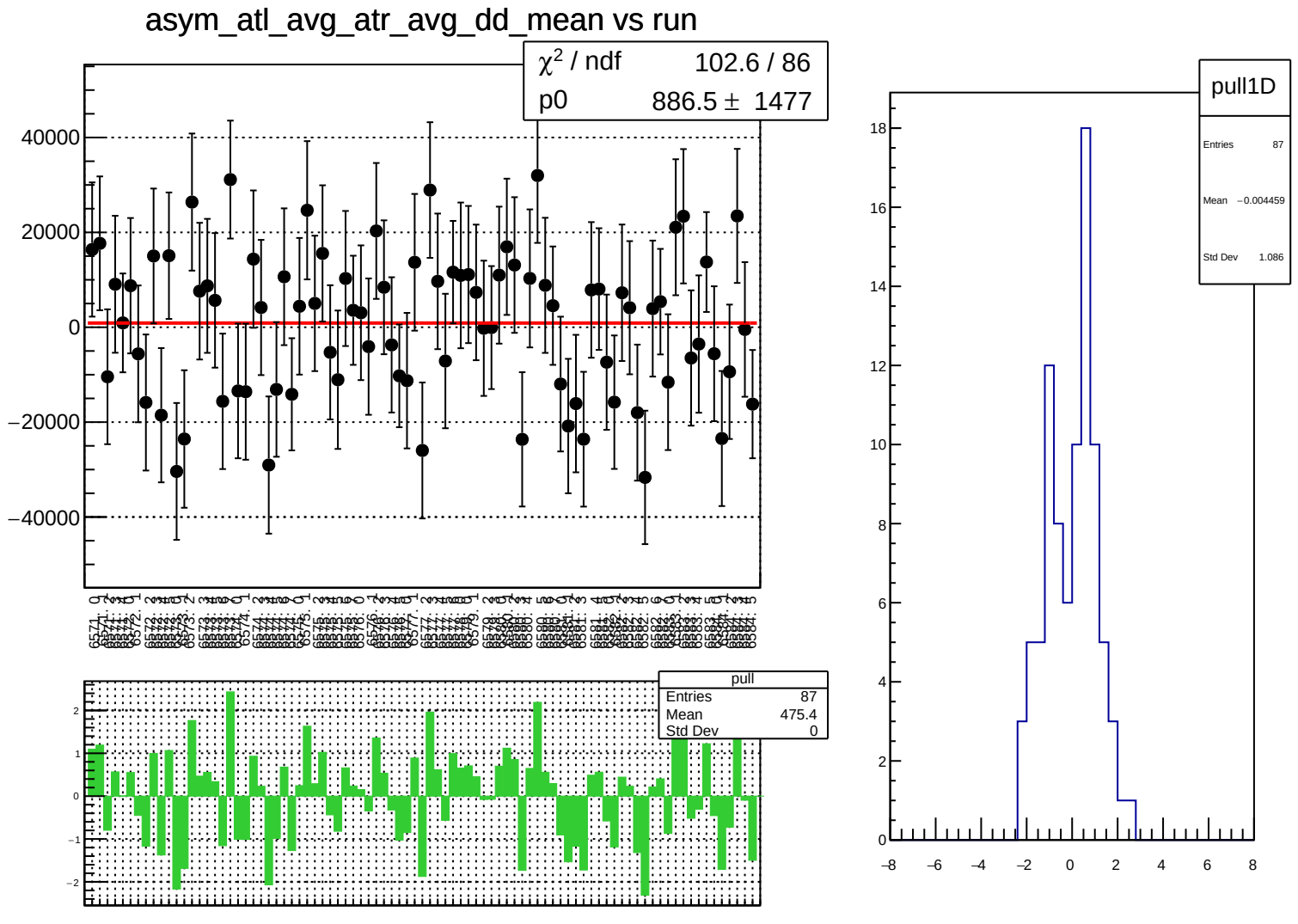

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 98.05 / 86
p0 871.1 ± 1434
pull
Entries 87
Mean 187.8
Std Dev 0
pull1D
Entries 87
Mean −0.006472
Std Dev 1.062

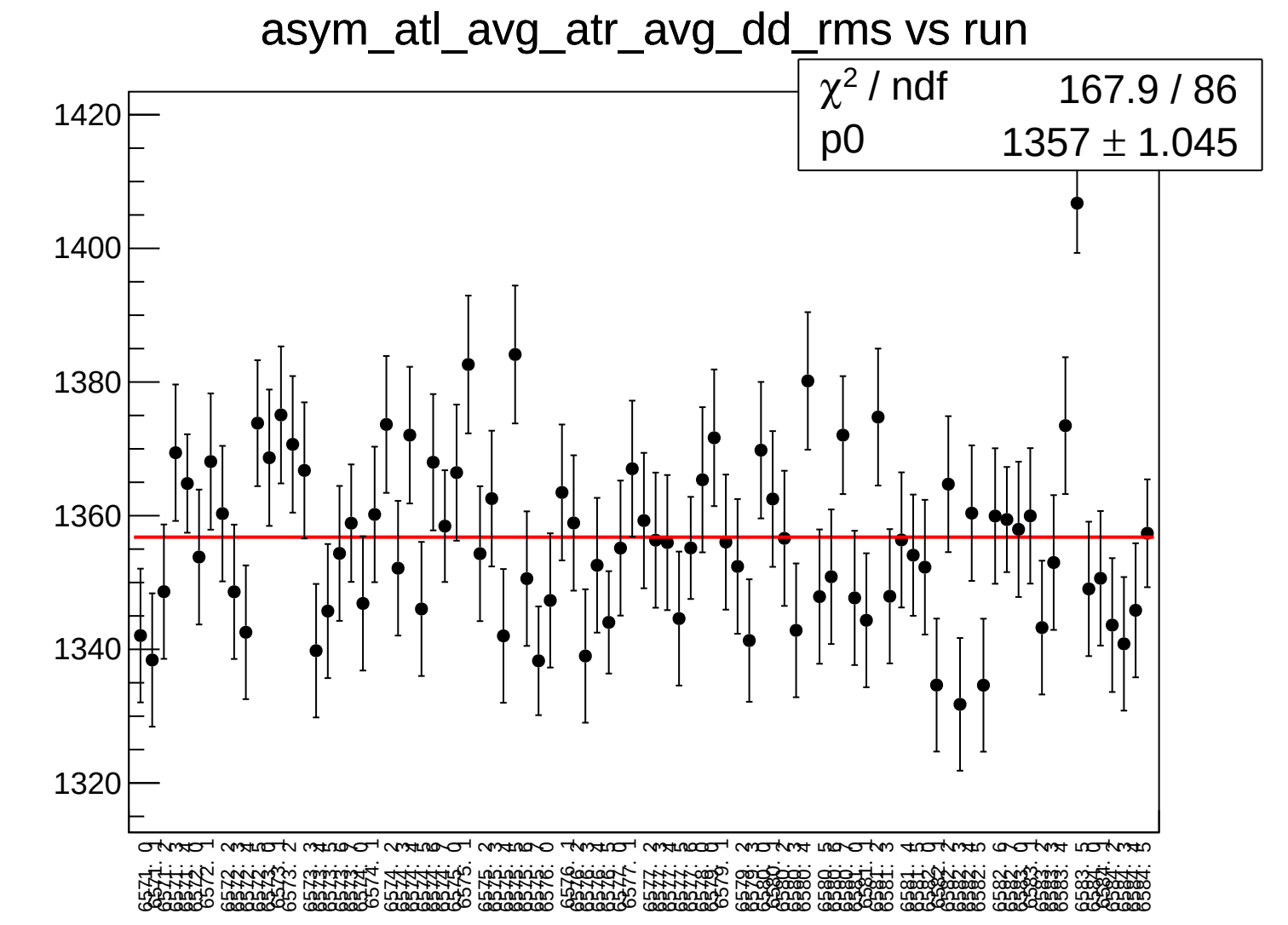

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 88.48 / 86
p0 1317 ± 1.014
1350
1340
1330
1320
1310
1300
1290
1280

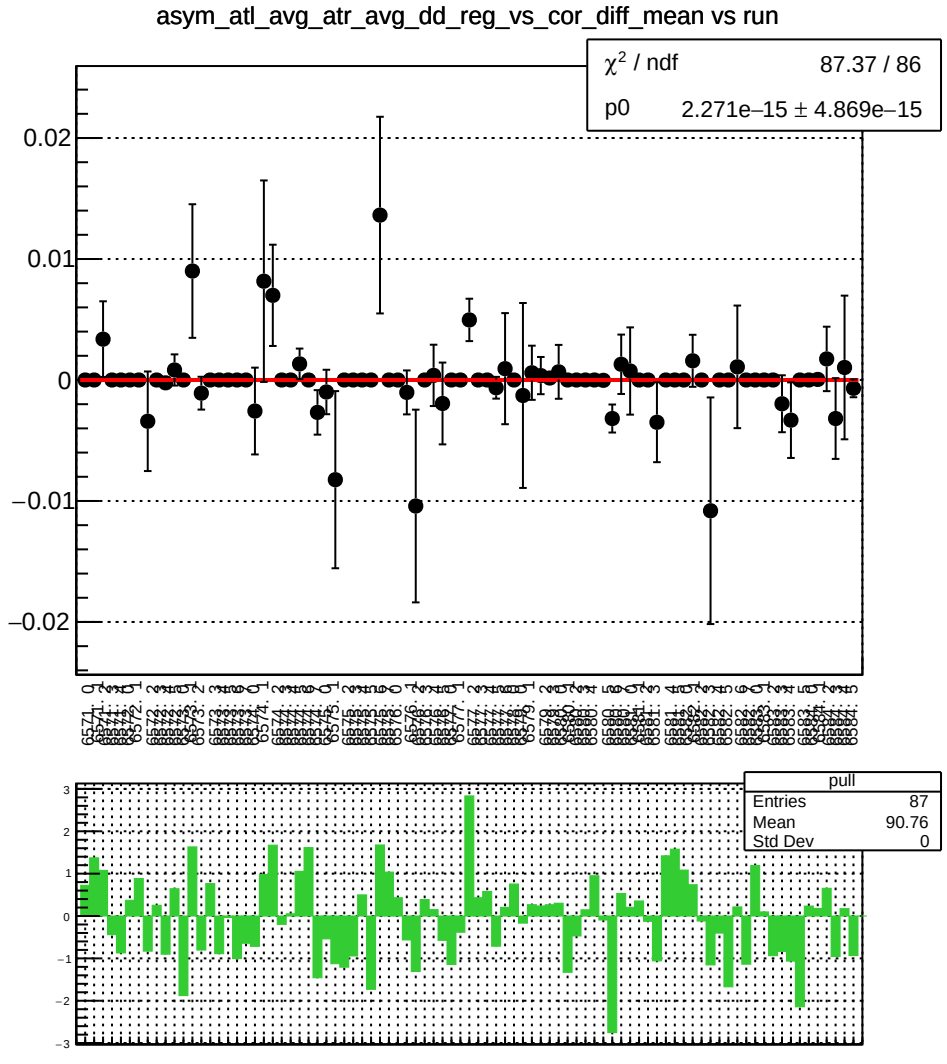

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.18 / 86
p0 −21.66 ± 393.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −698.9
Std Dev 0
2
1
0
−1
−2

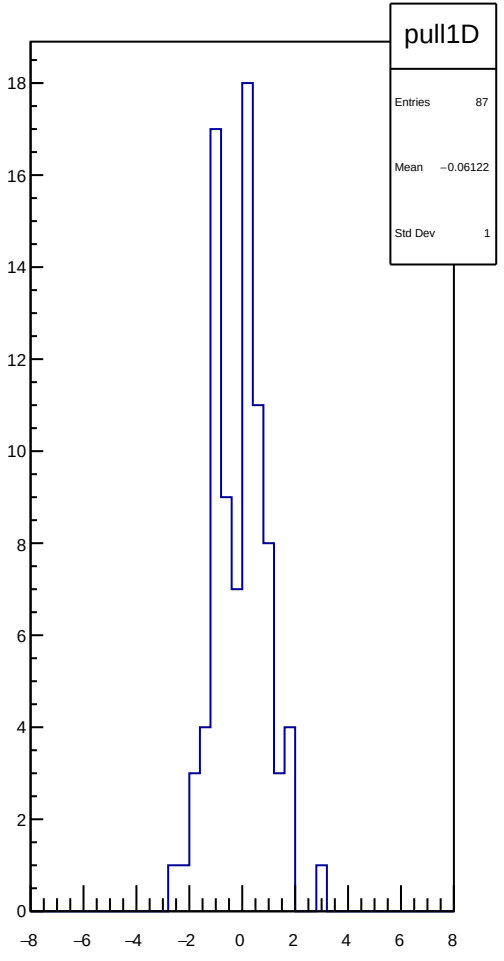

pull1D
Entries 87
Mean −0.004912
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

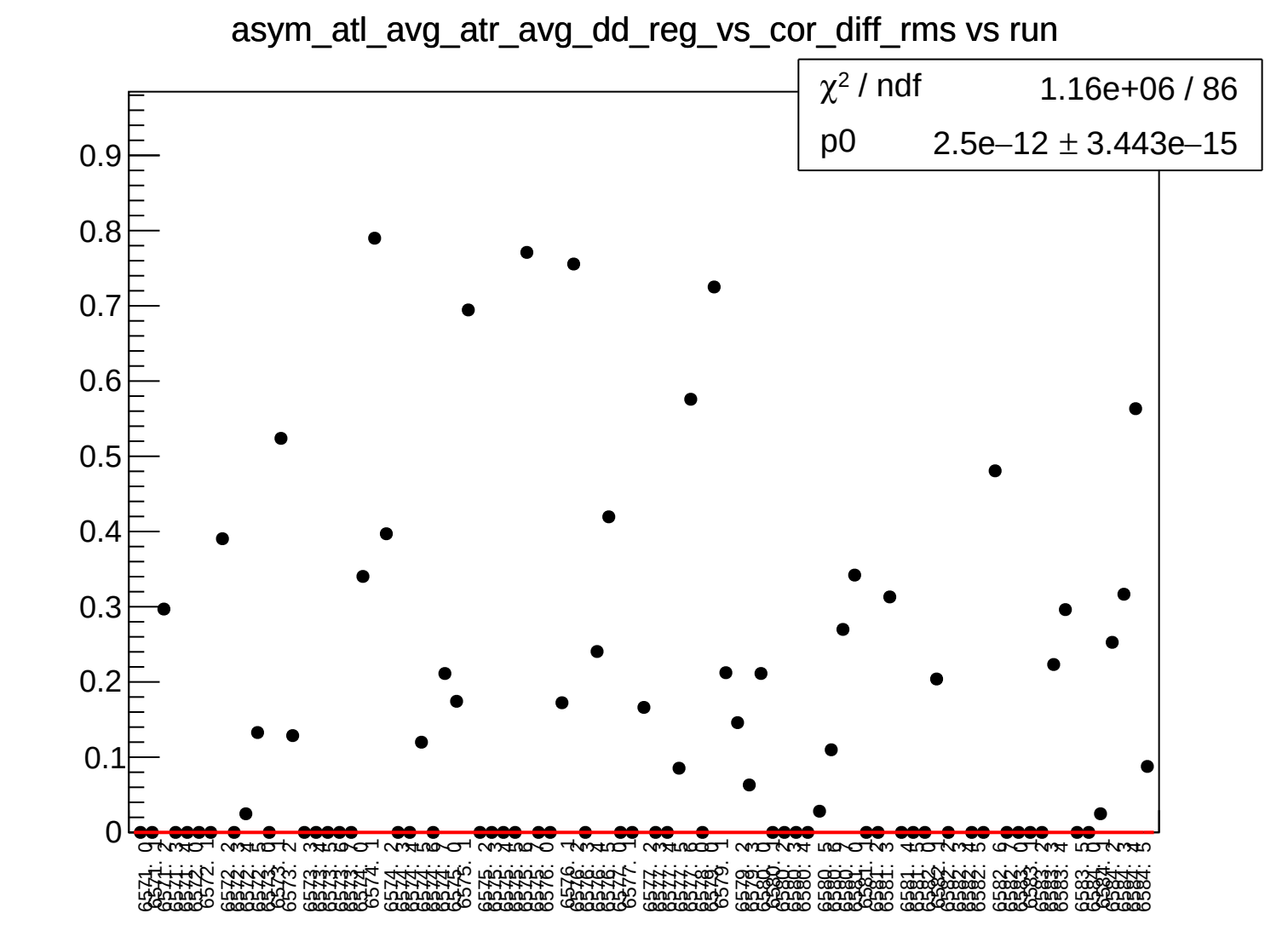

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.236e+04 / 86
p0 360.1 ± 0.2783
480
460
440
420
400
380
360
340
320
300

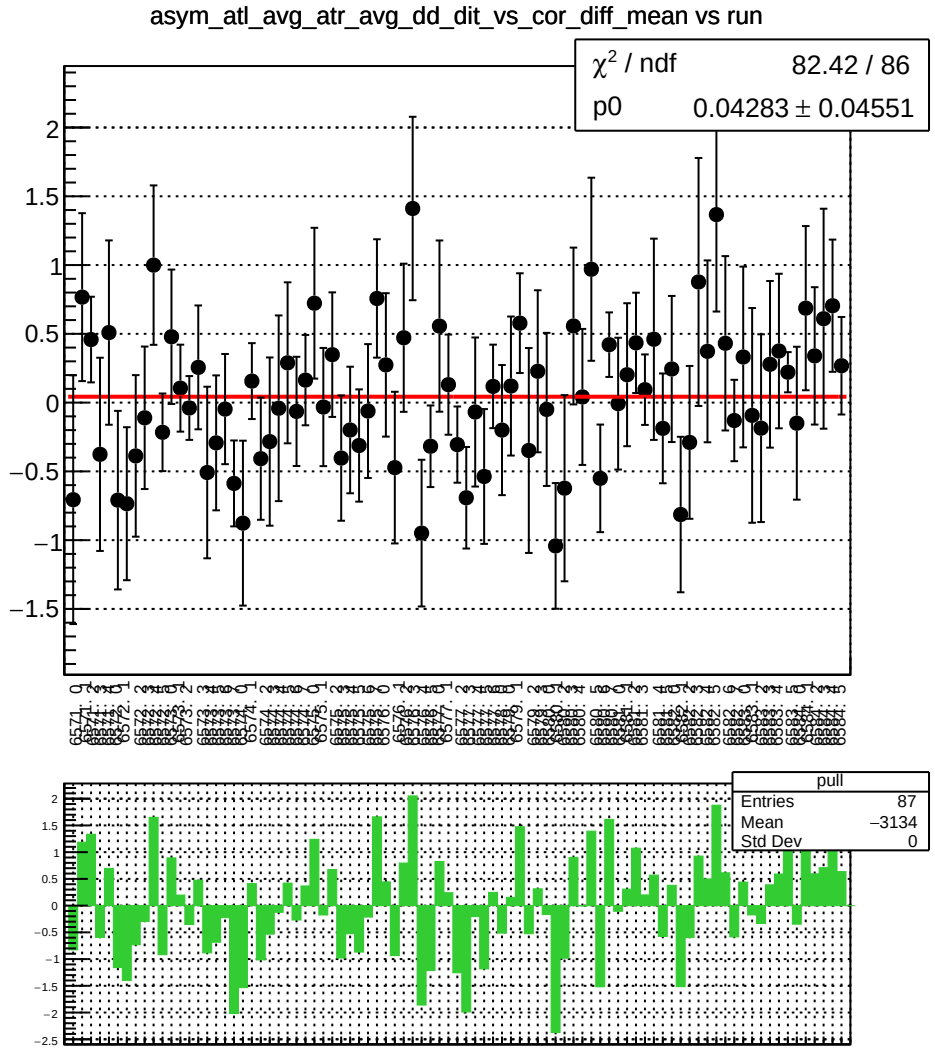

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 102.6 / 86
p0 886.5 ± 1477
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 475.4
Std Dev 0
pull1D
Entries 87
Mean −0.004459
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

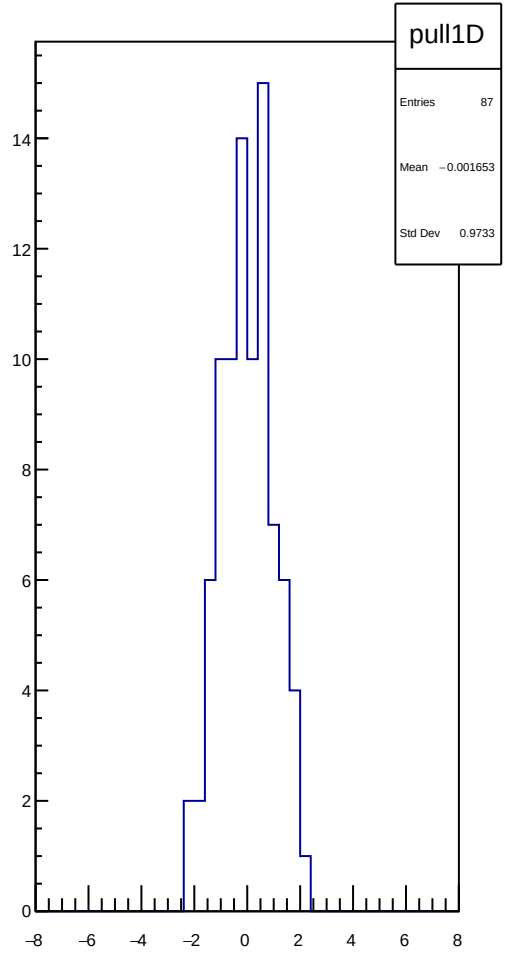

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 167.9 / 86
p0 1357 ± 1.045
1420
1400
1380
1360
1340
1320

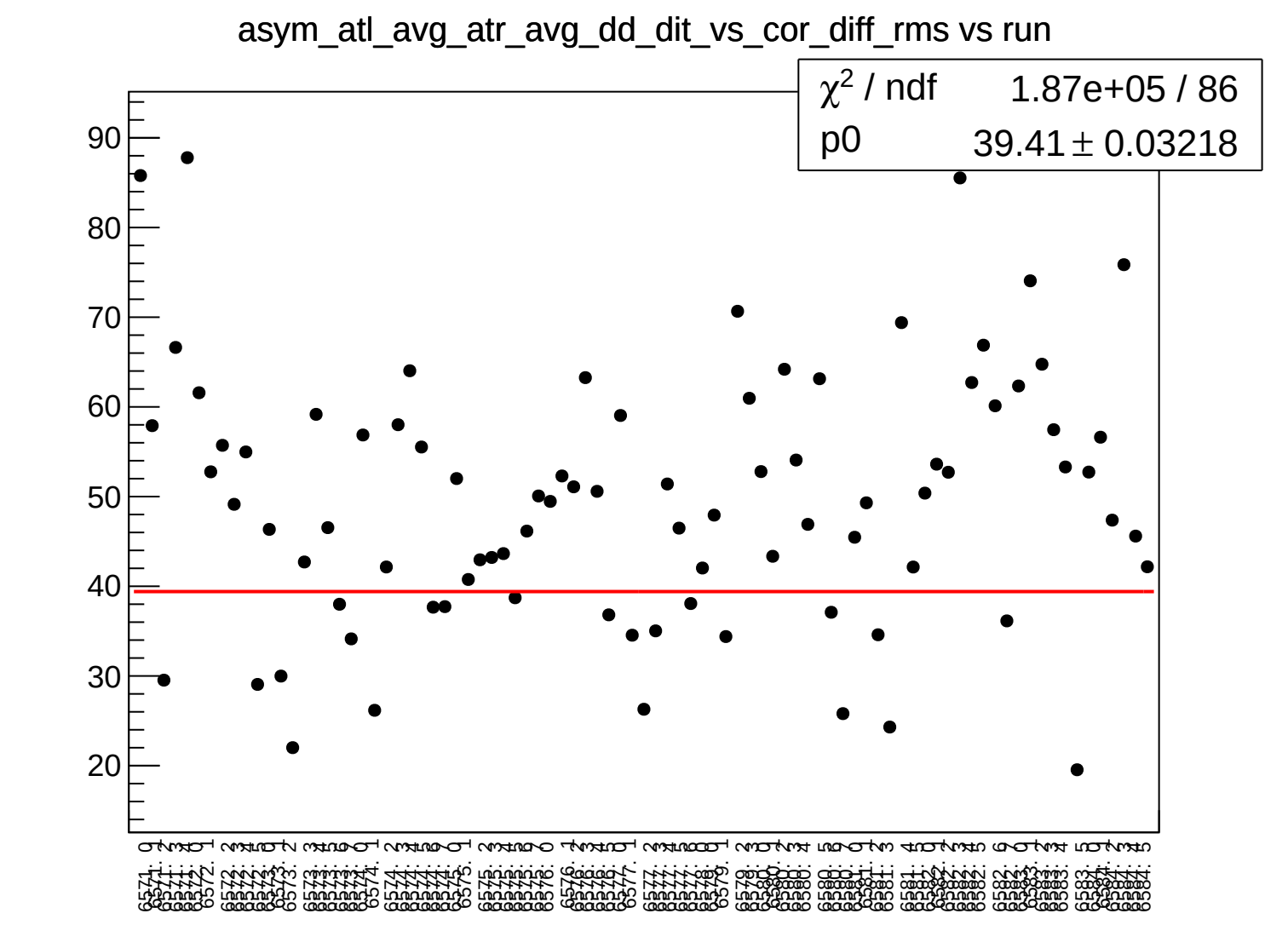

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.37 / 86
p0 2.271e−15 ± 4.869e−15
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 90.76
Std Dev 0
3
2
1
0
−1
−2
−3

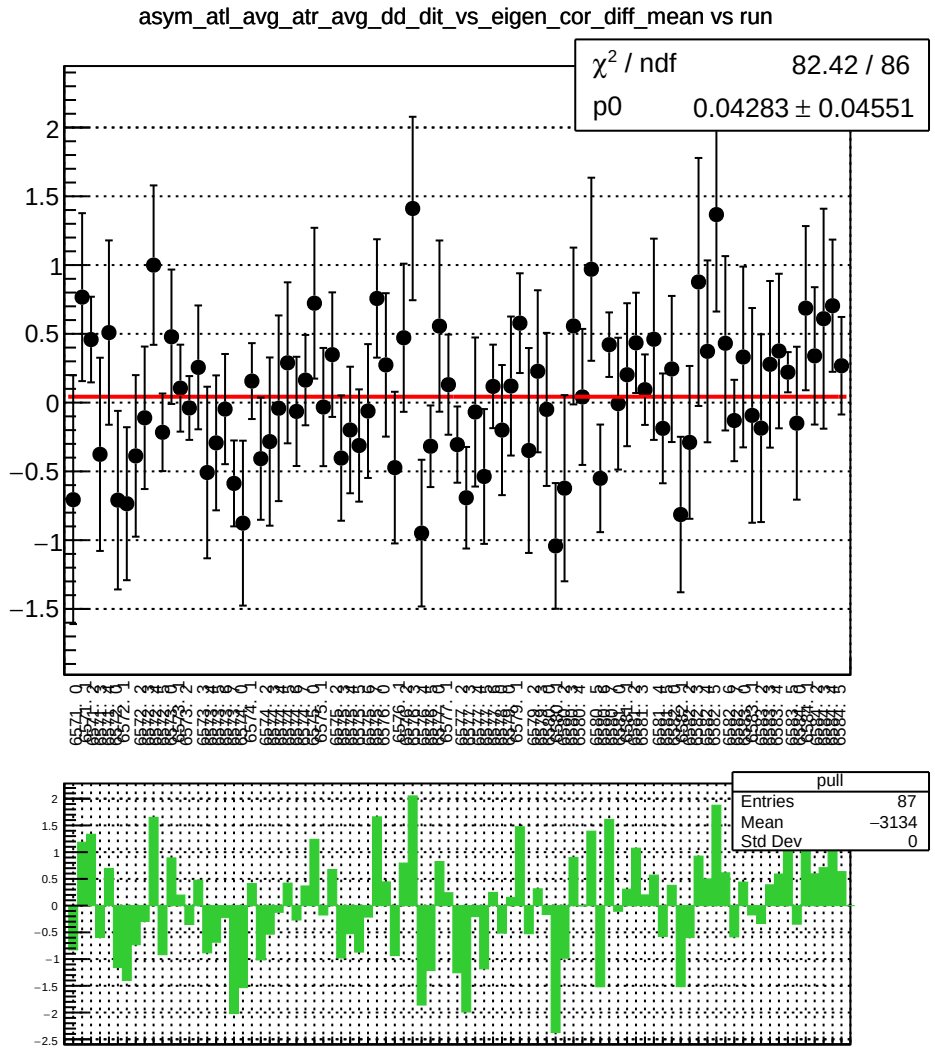

pull1D
Entries 87
Mean −0.06122
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

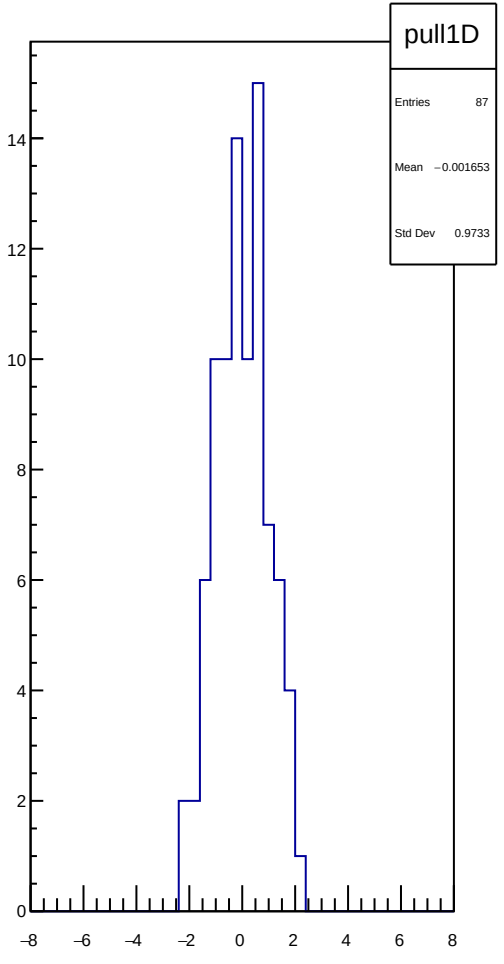

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.16e+06 / 86
p0 2.5e−12 ± 3.443e−15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

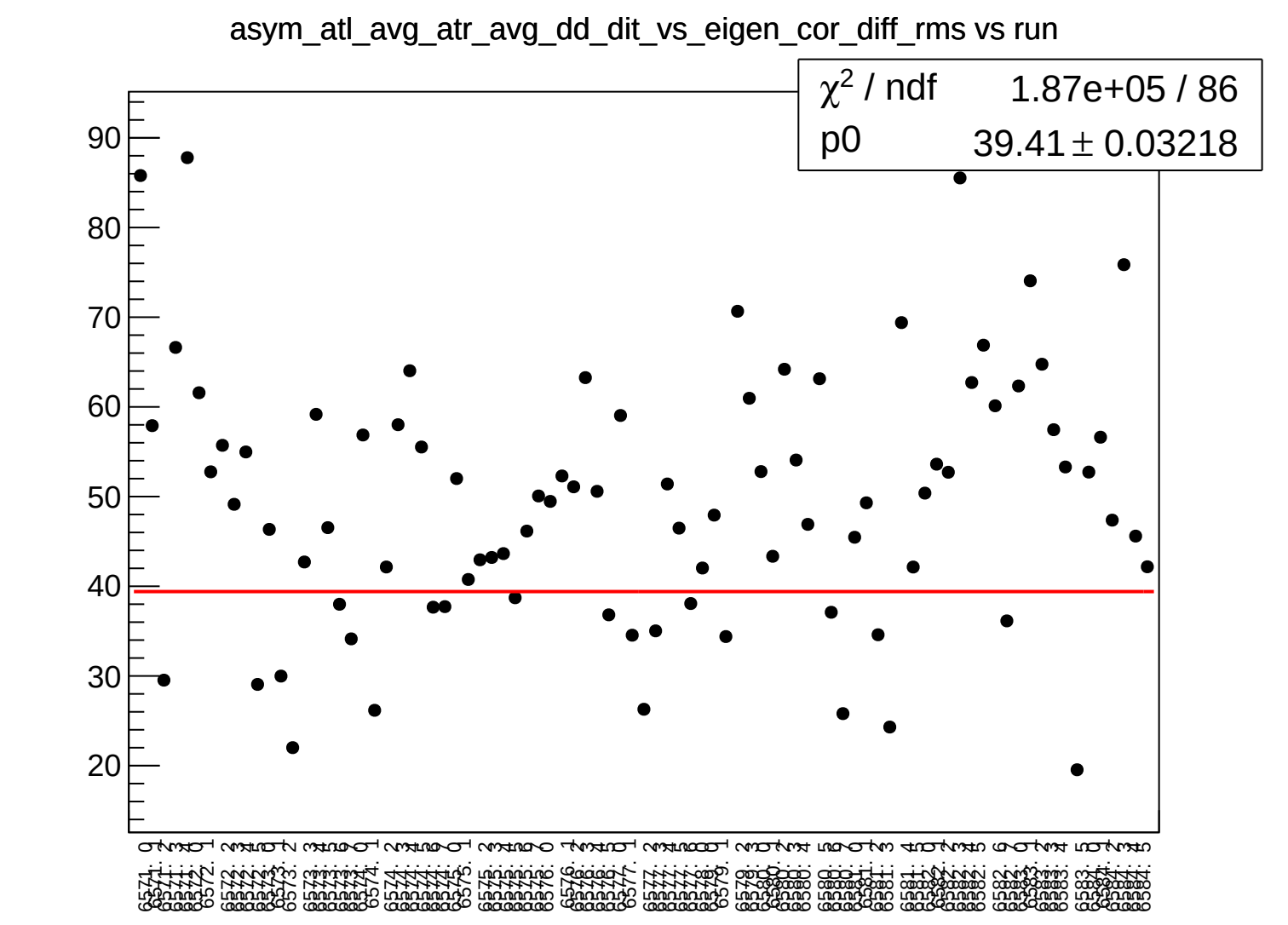

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.42 / 86
p0 0.04283 ± 0.04551
pull
Entries 87
Mean −3134
Std Dev 0

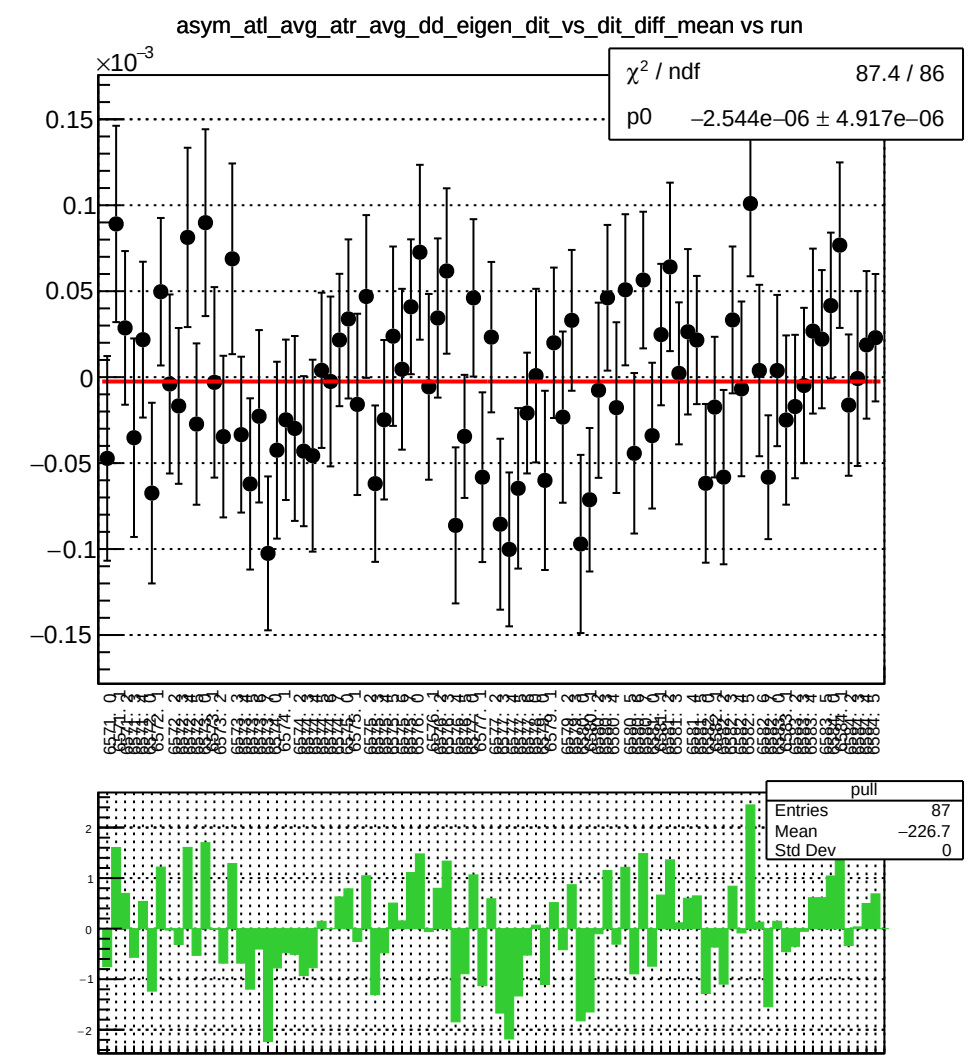

pull1D
Entries 87
Mean −0.001653
Std Dev 0.9733

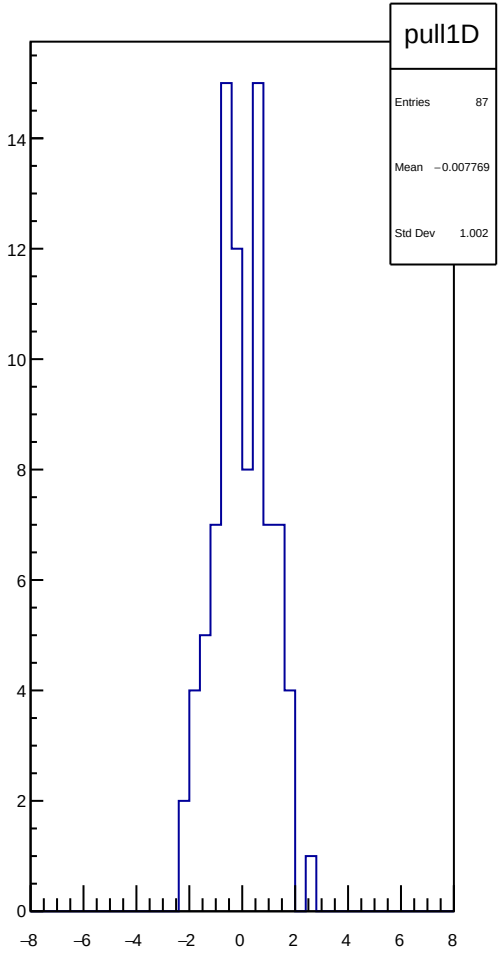

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 86
p0 39.41 ± 0.03218
90
80
70
60
50
40
30
20

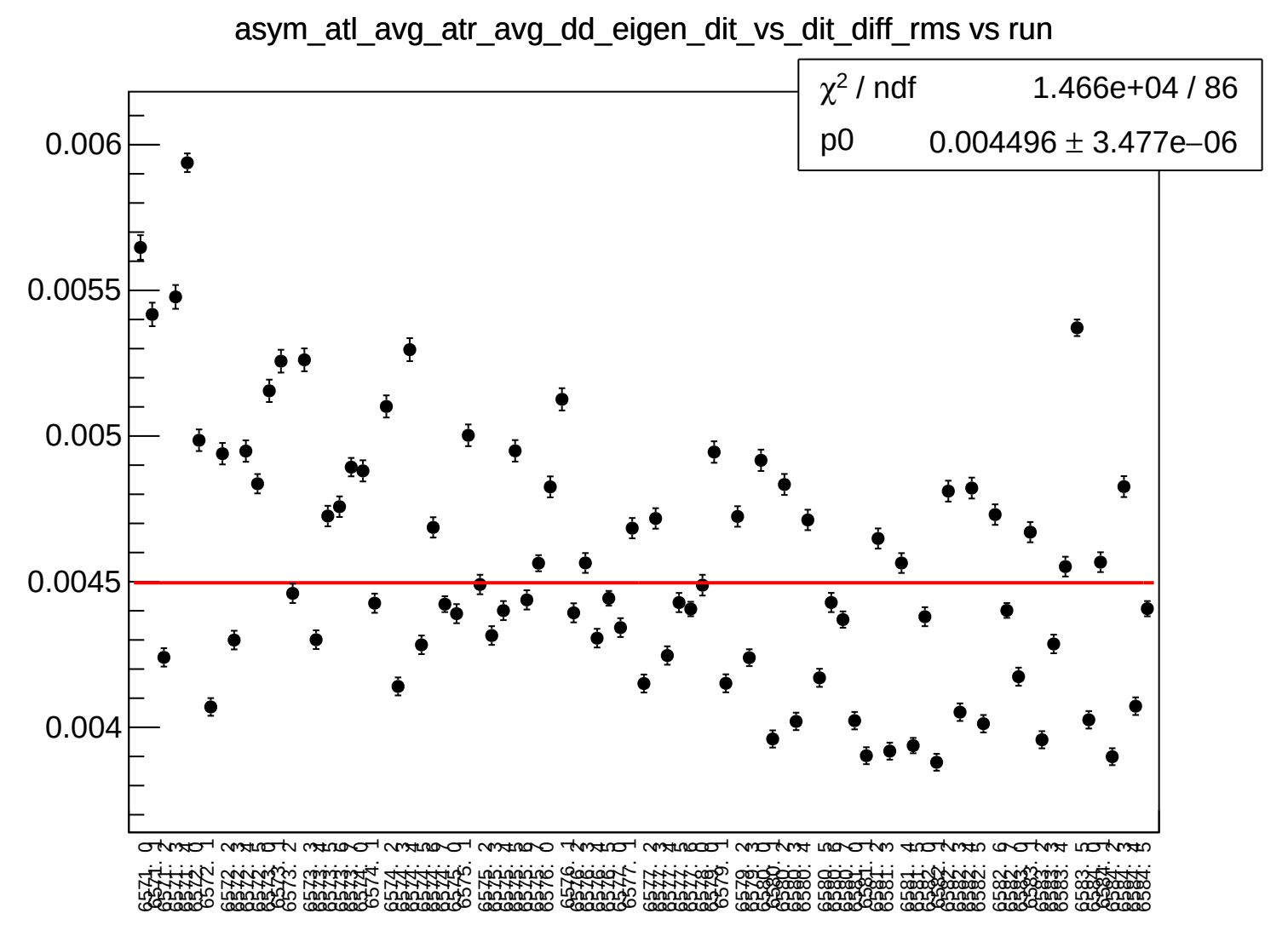

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.42 / 86
p0 0.04283 ± 0.04551
pull
Entries 87
Mean −3134
Std Dev 0

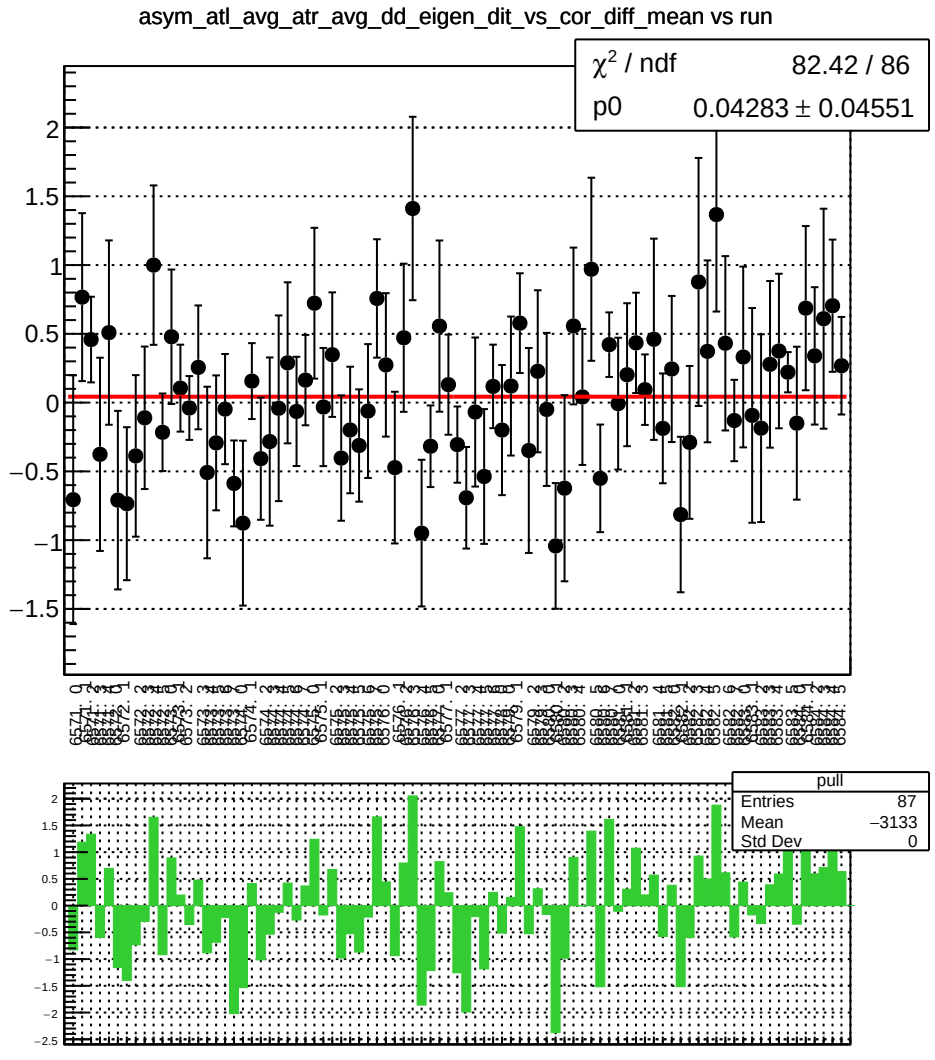

pull1D
Entries 87
Mean −0.001653
Std Dev 0.9733

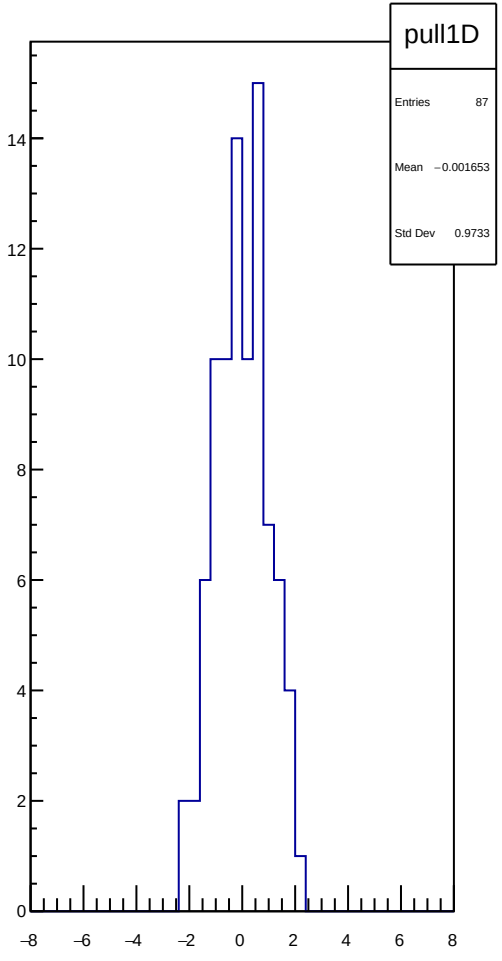

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 86
p0 39.41 ± 0.03218
90
80
70
60
50
40
30
20

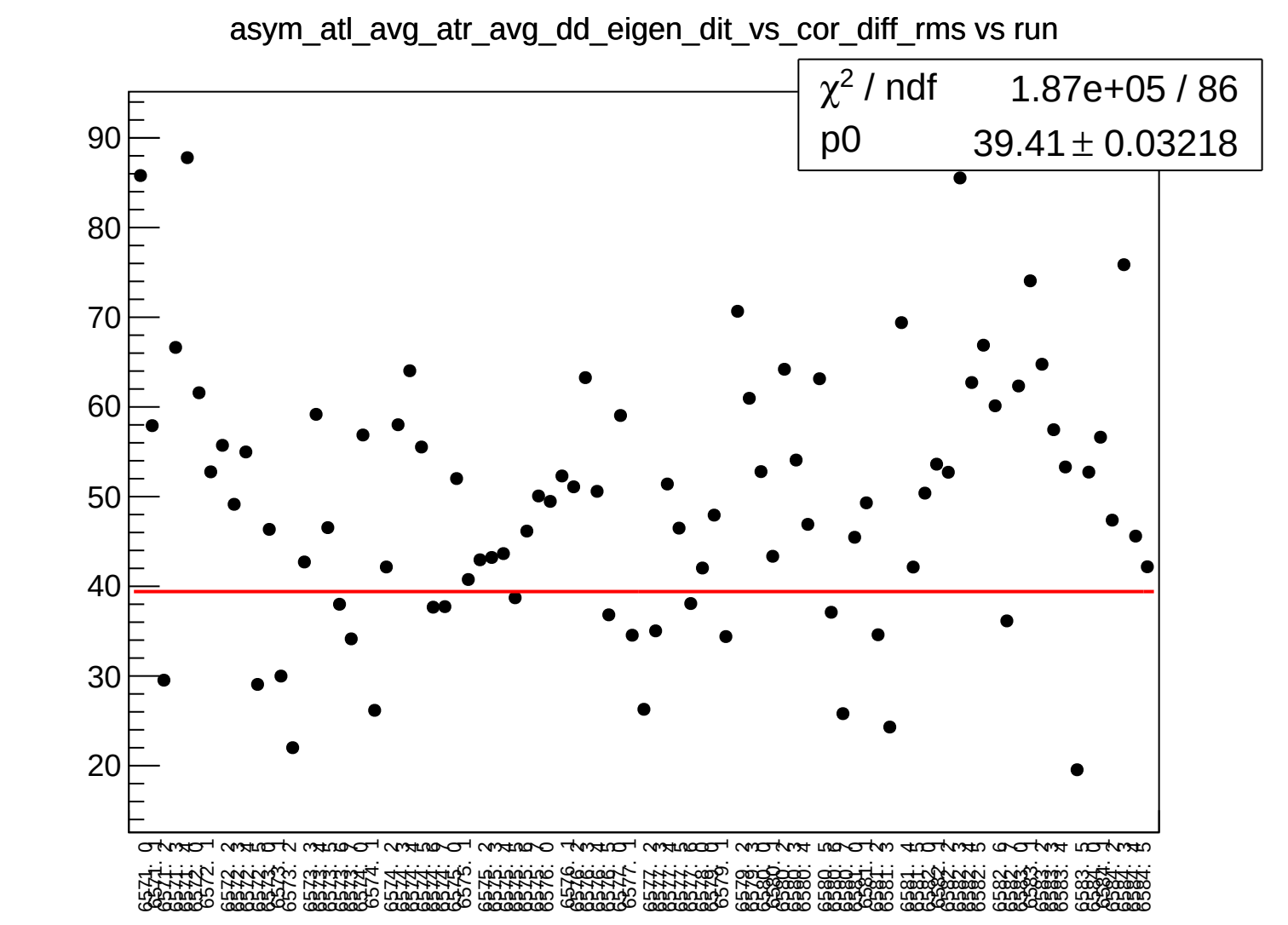

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.4 / 86
p0 −2.544e−06 ± 4.917e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean −226.7
Std Dev 0
2
1
0
−1
−2

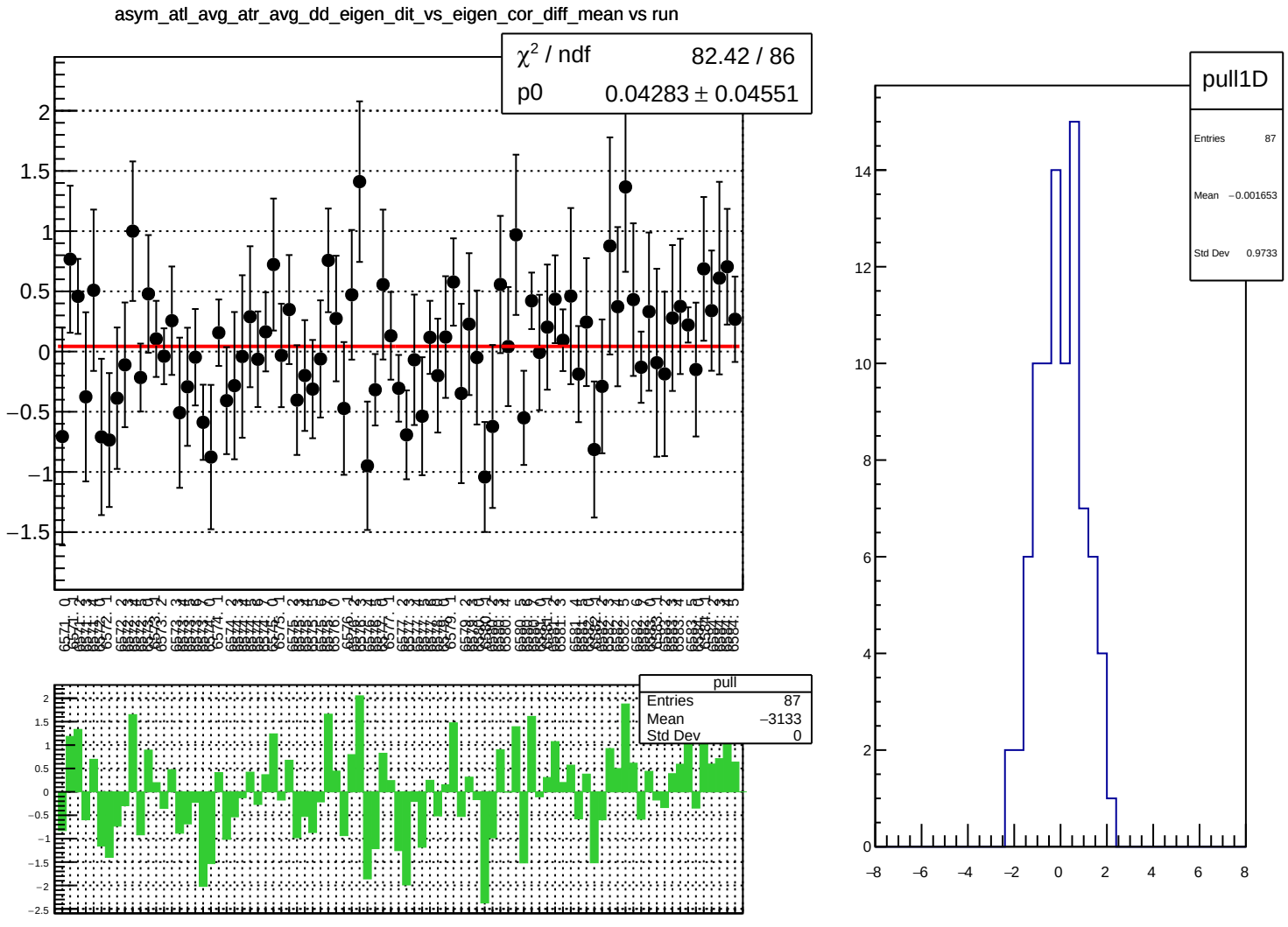

pull1D
Entries 87
Mean −0.007769
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

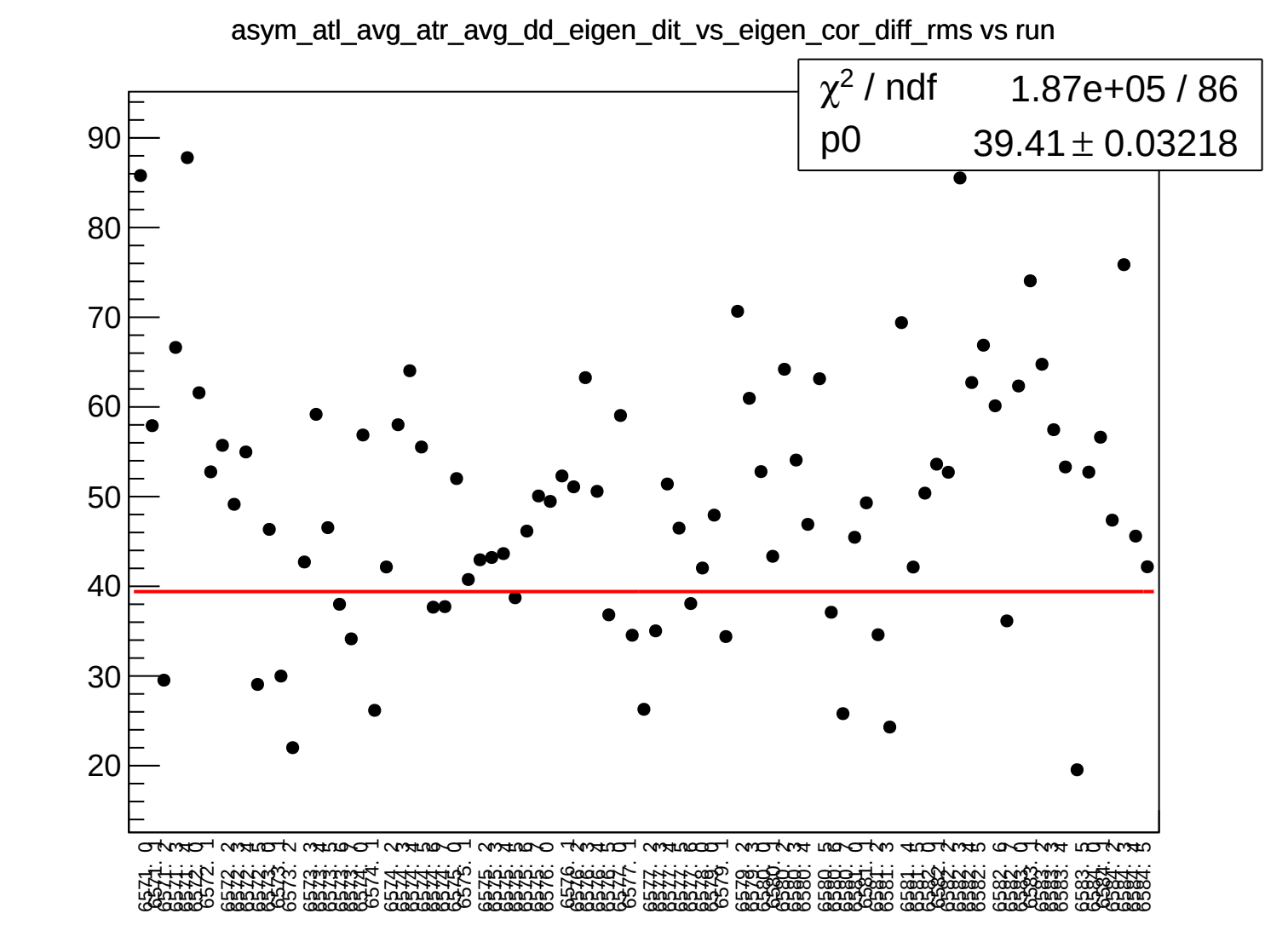

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.466e+04 / 86
p0 0.004496 ± 3.477e−06
0.006
0.0055
0.005
0.0045
0.004

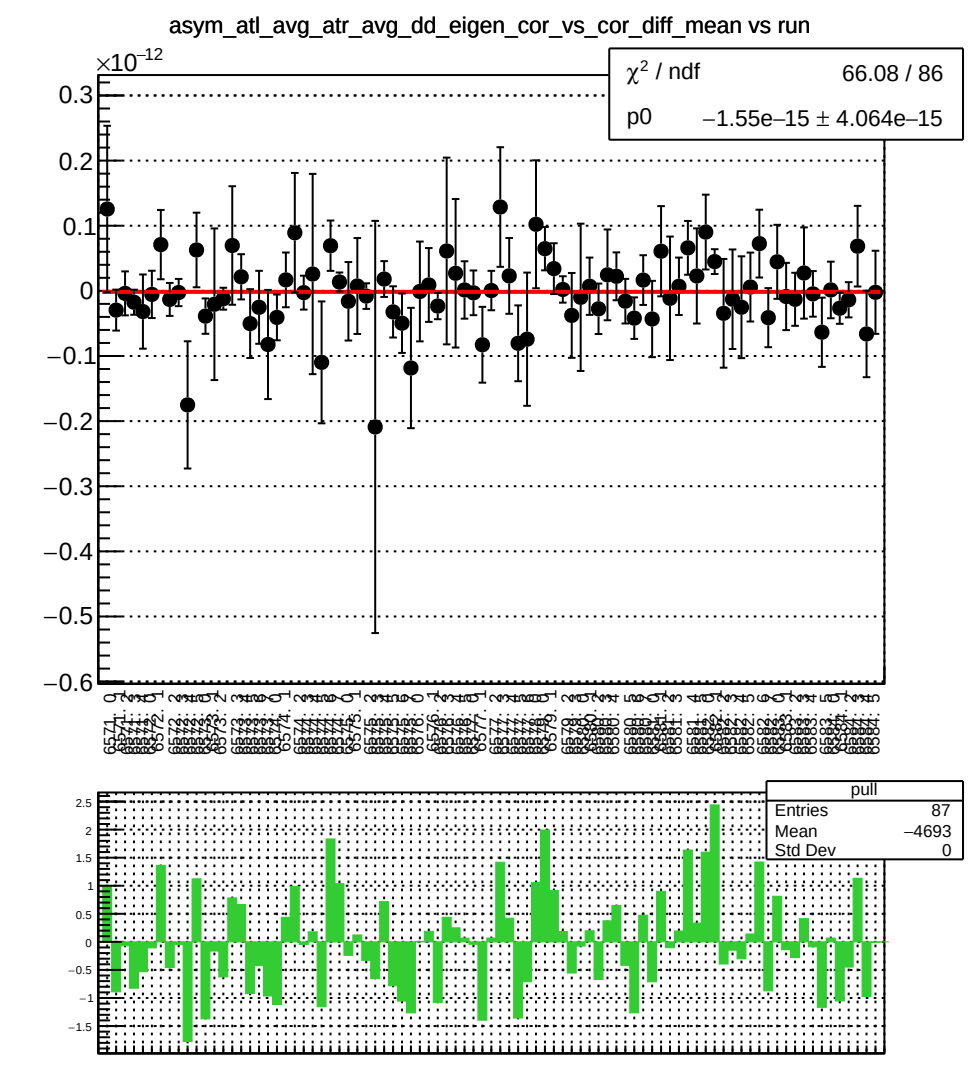

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.42 / 86
p0 0.04283 ± 0.04551
pull
Entries 87
Mean −3133
Std Dev 0

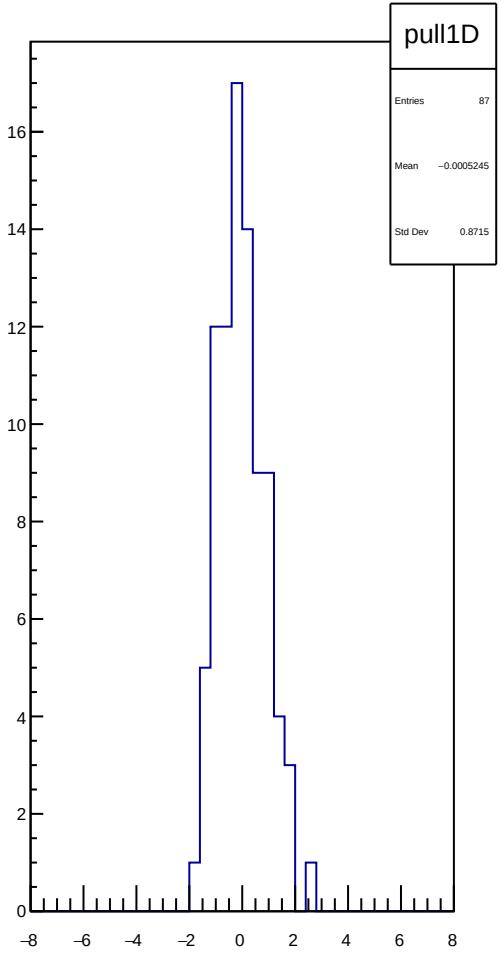

pull1D
Entries 87
Mean −0.001653
Std Dev 0.9733

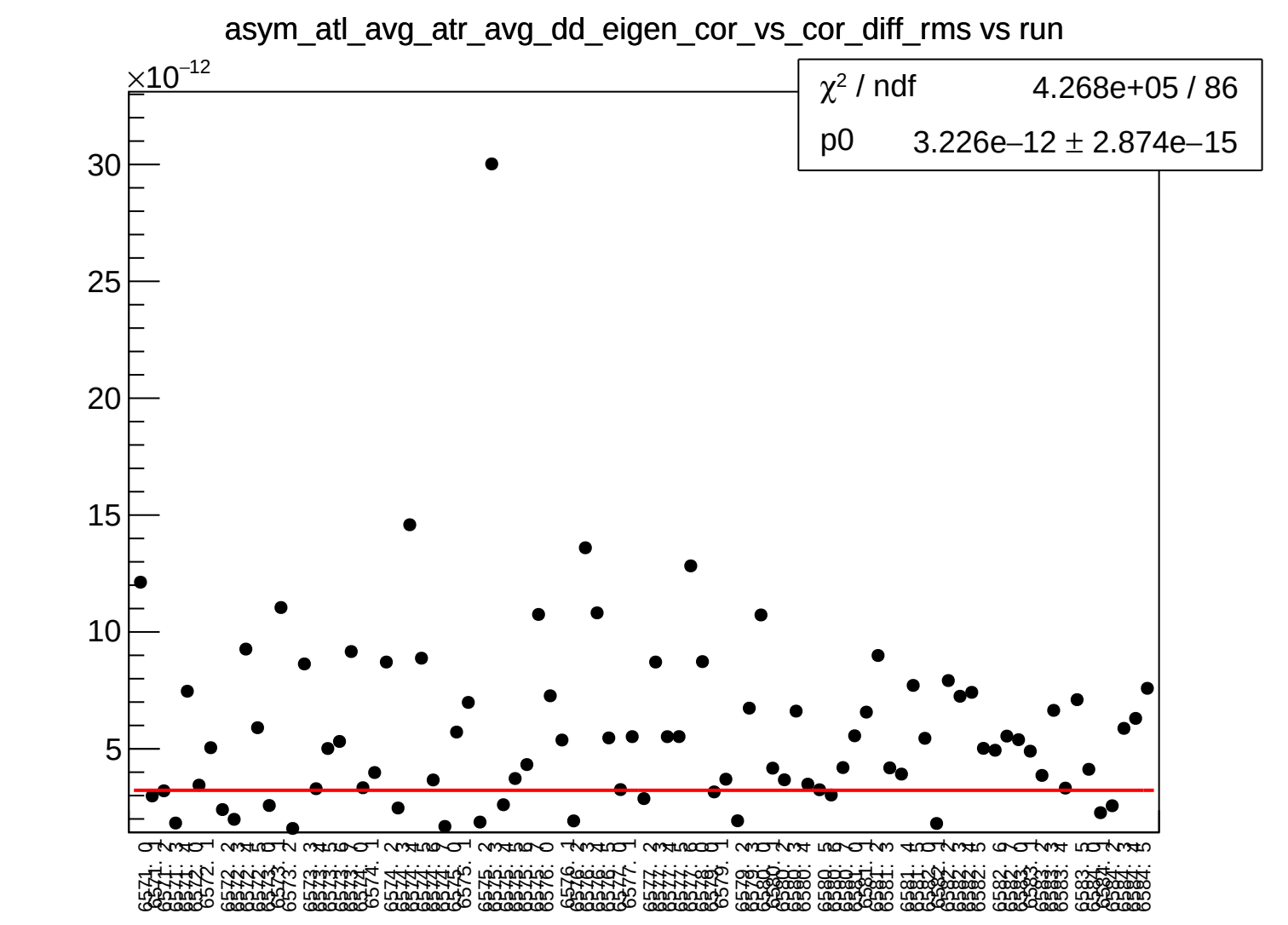

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 86
p0 39.41 ± 0.03218
90
80
70
60
50
40
30
20

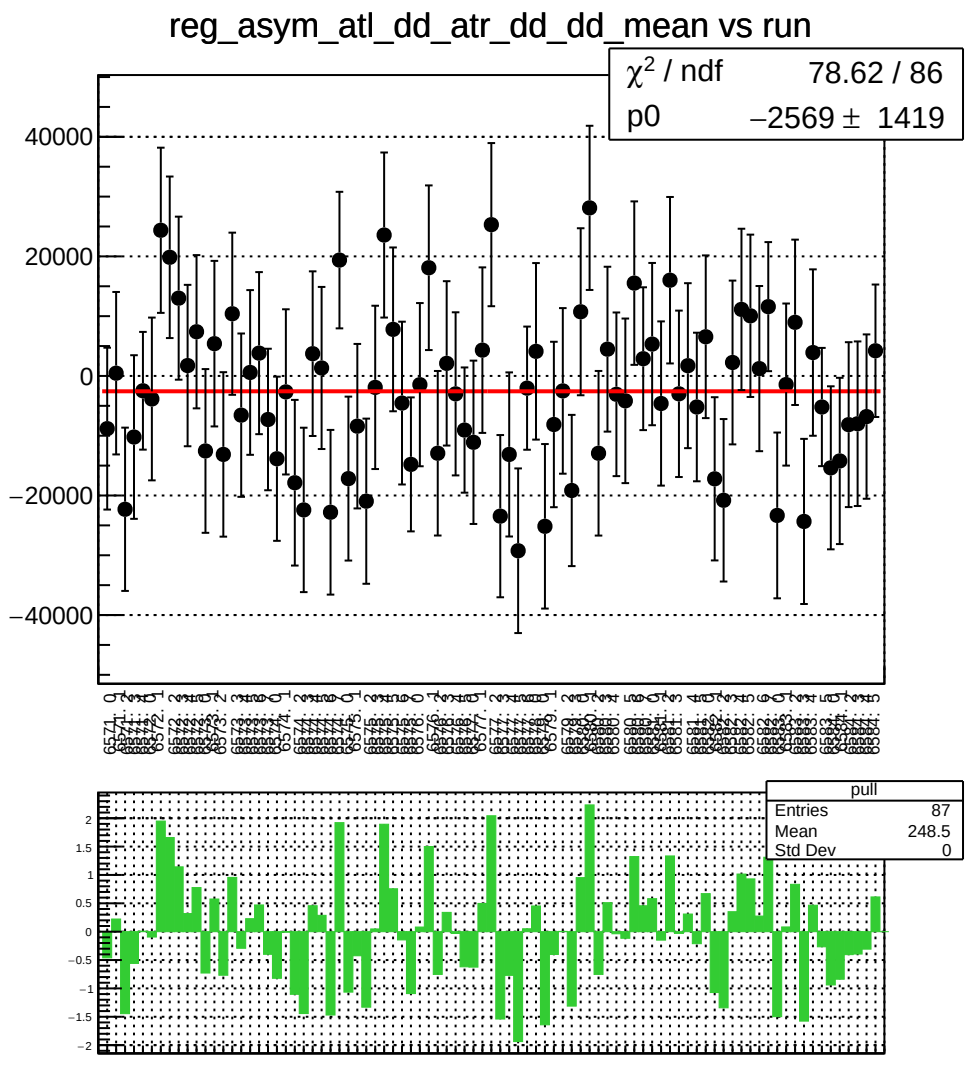

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.42 / 86
p0 0.04283 ± 0.04551
pull
Entries 87
Mean −3133
Std Dev 0
pull1D
Entries 87
Mean −0.001653
Std Dev 0.9733

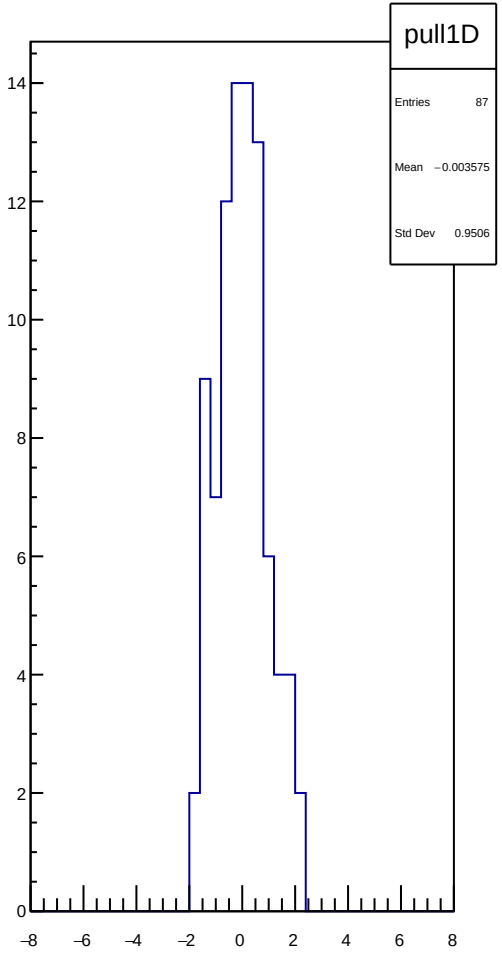

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 86
p0 39.41 ± 0.03218
90
80
70
60
50
40
30
20

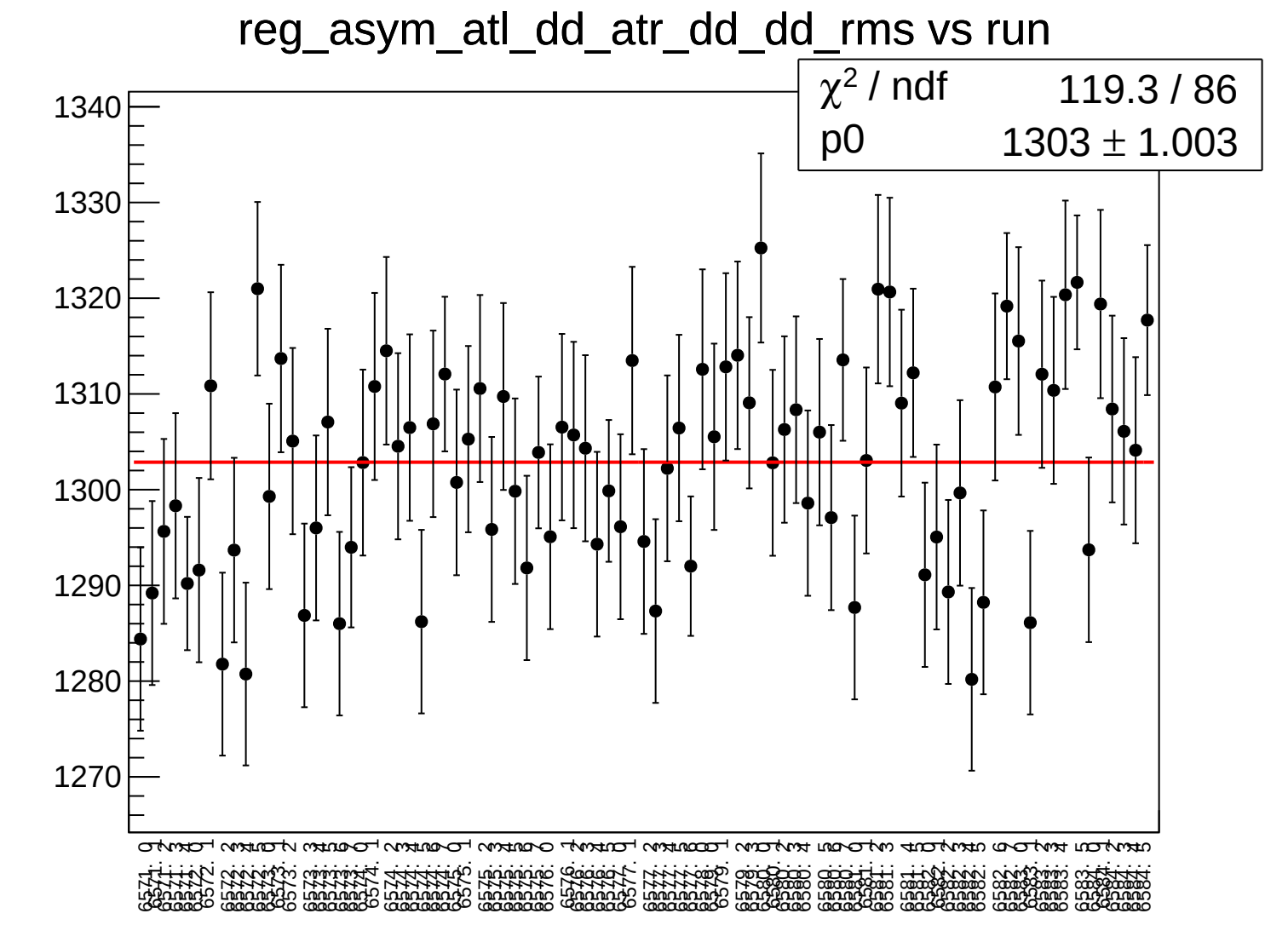

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.08 / 86
p0 −1.55e−15 ± 4.064e−15
pull
Entries 87
Mean −4693
Std Dev 0

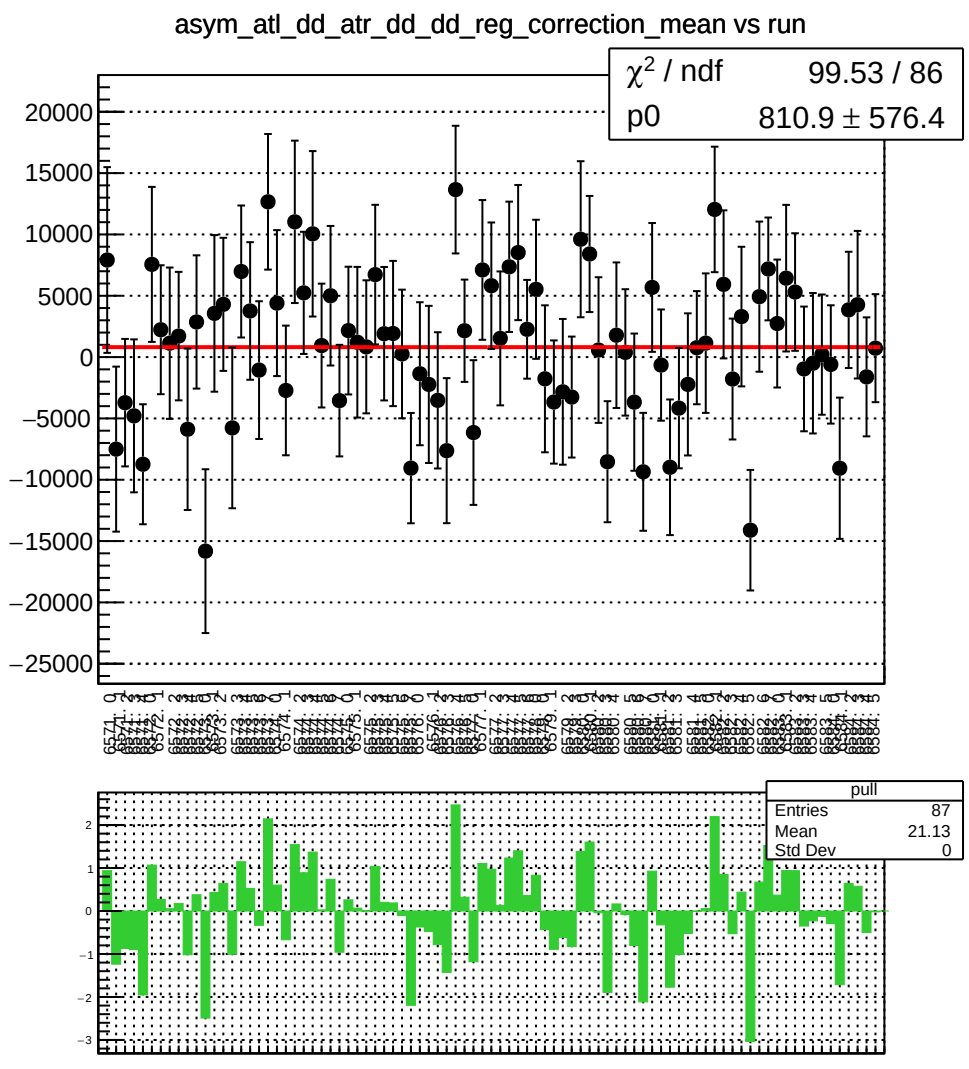

pull1D
Entries 87
Mean −0.0005245
Std Dev 0.8715

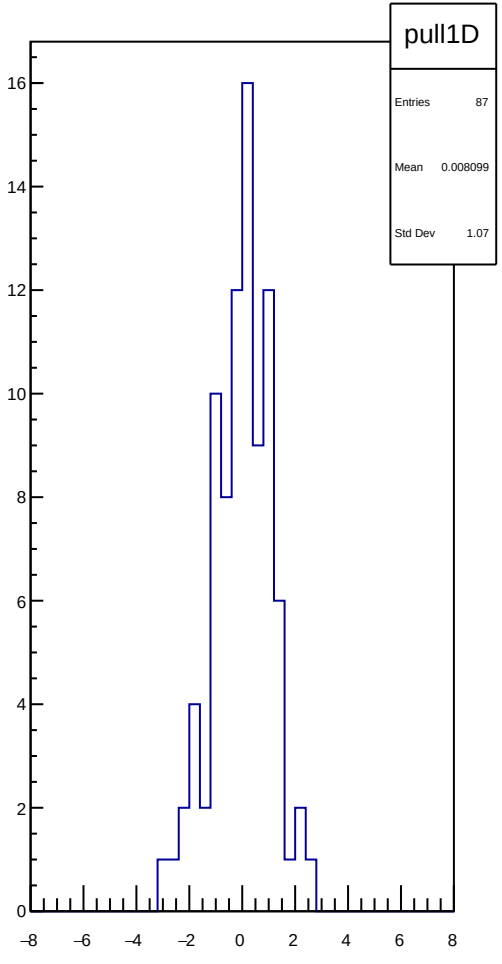

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.268e+05 / 86
p0 3.226e−12 ± 2.874e−15
30
25
20
15
10
5

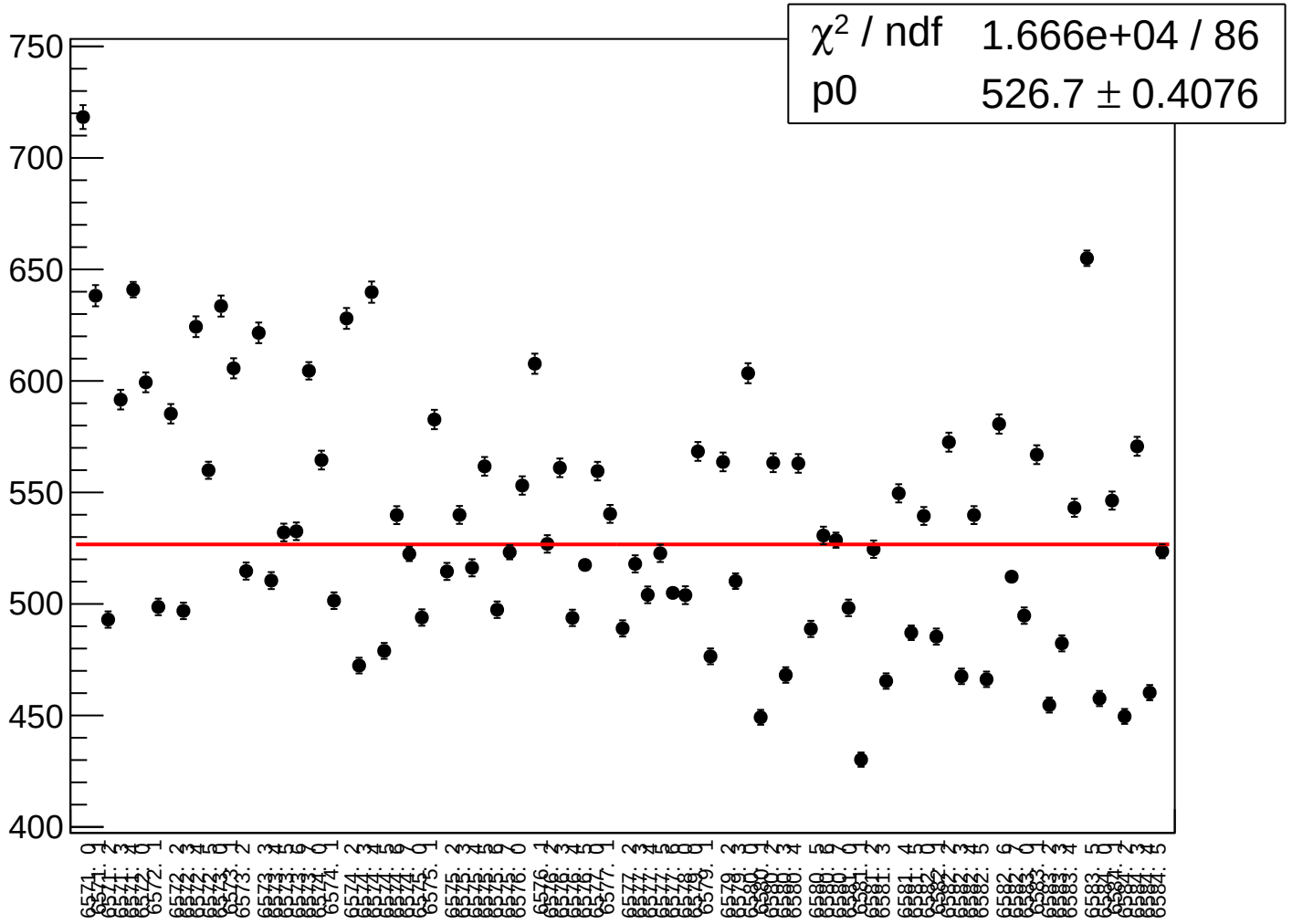

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.62 / 86
p0 −2569 ± 1419
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 248.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

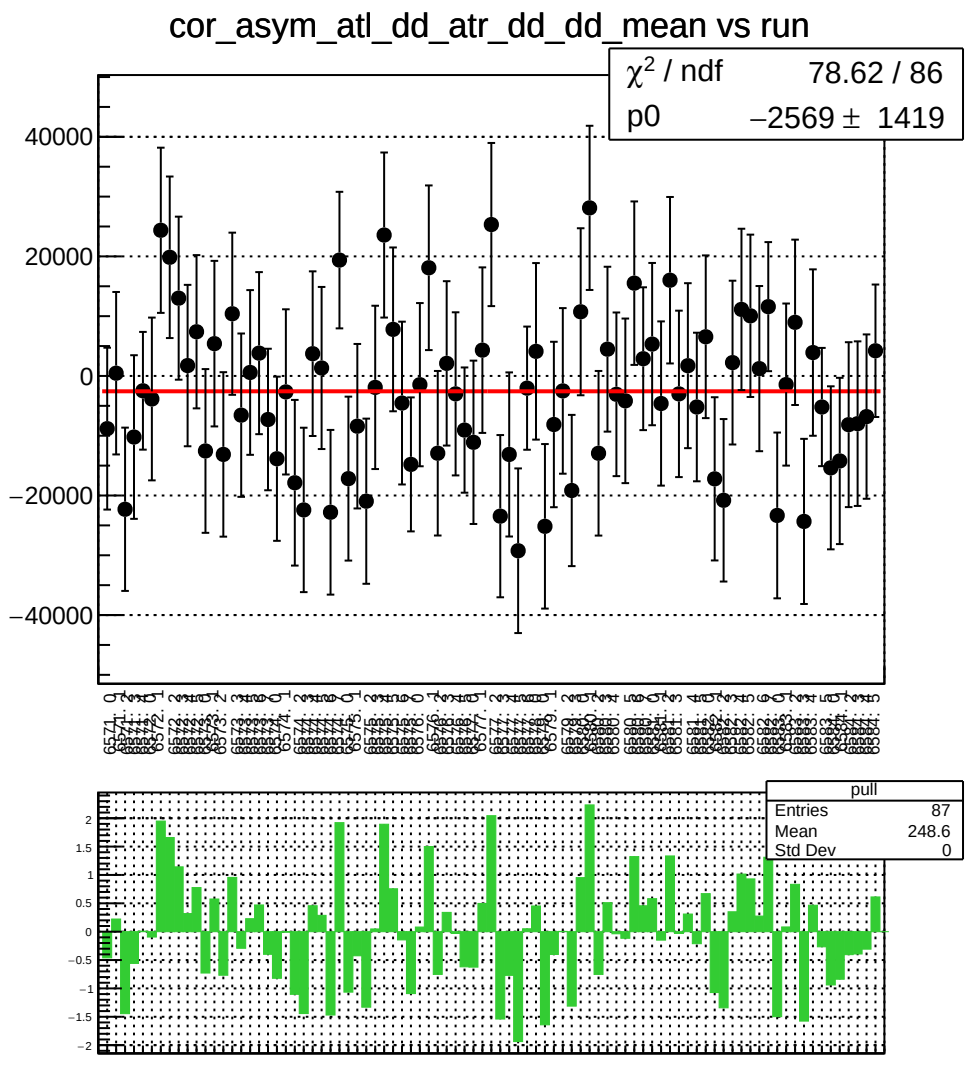

pull1D
Entries 87
Mean −0.003575
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

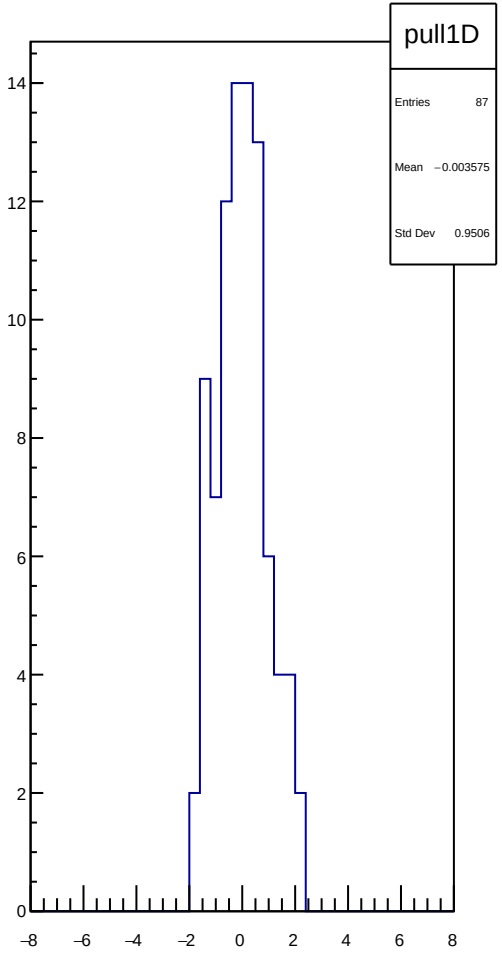

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 119.3 / 86
p0 1303 ± 1.003
1340
1330
1320
1310
1300
1290
1280
1270

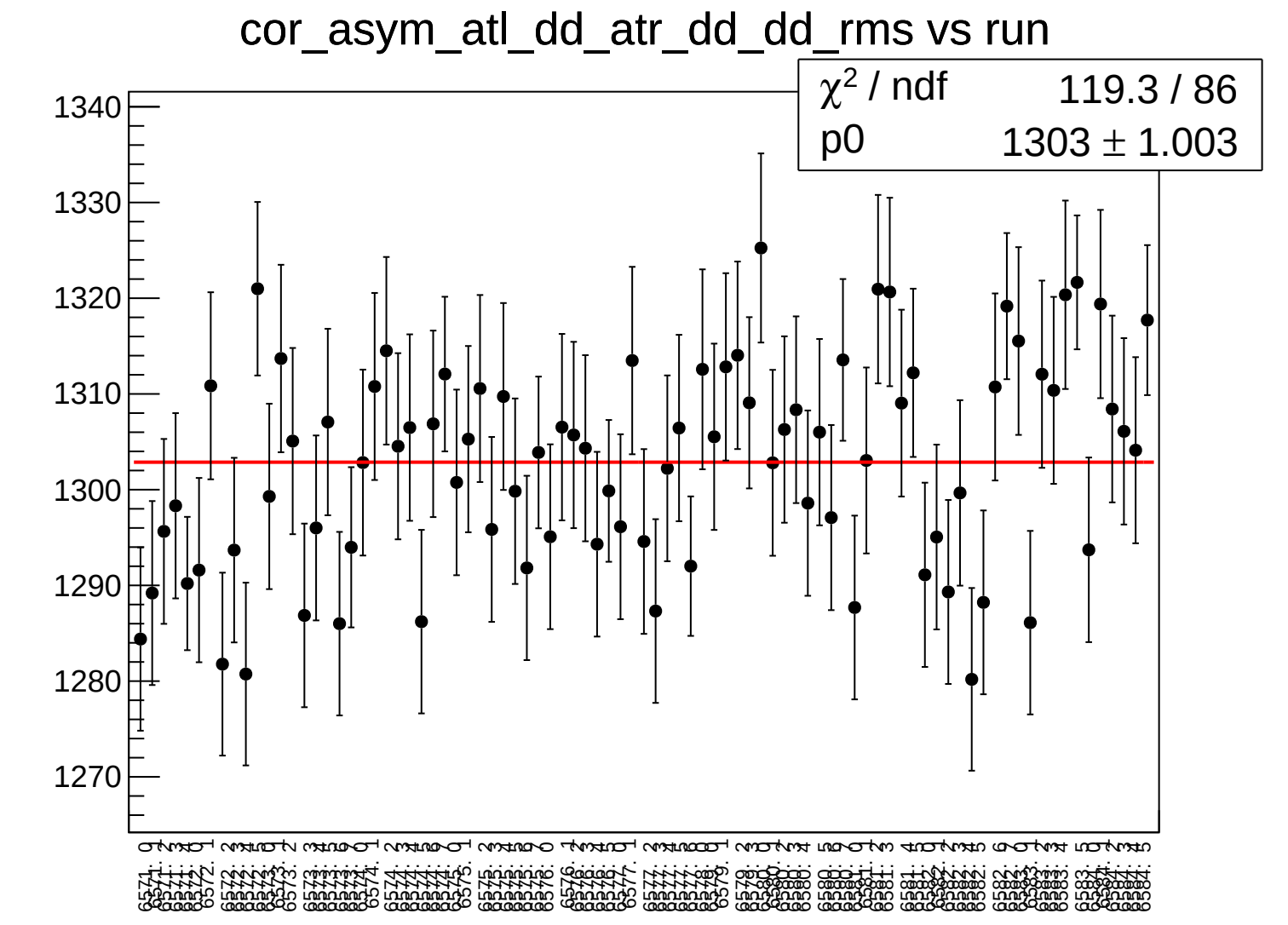

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 99.53 / 86
p0 810.9 ± 576.4
pull
Entries 87
Mean 21.13
Std Dev 0

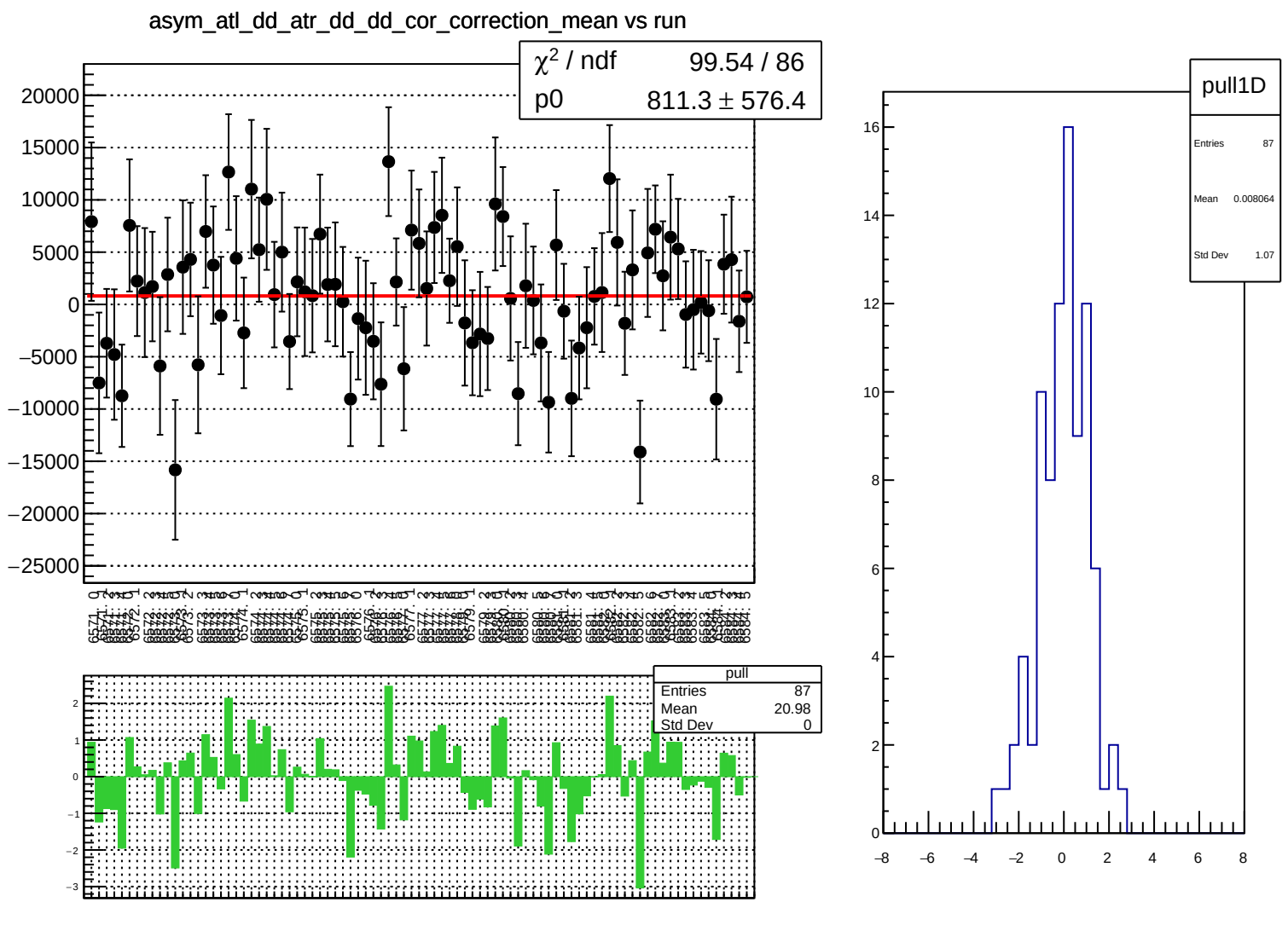

pull1D
Entries 87
Mean 0.008099
Std Dev 1.07

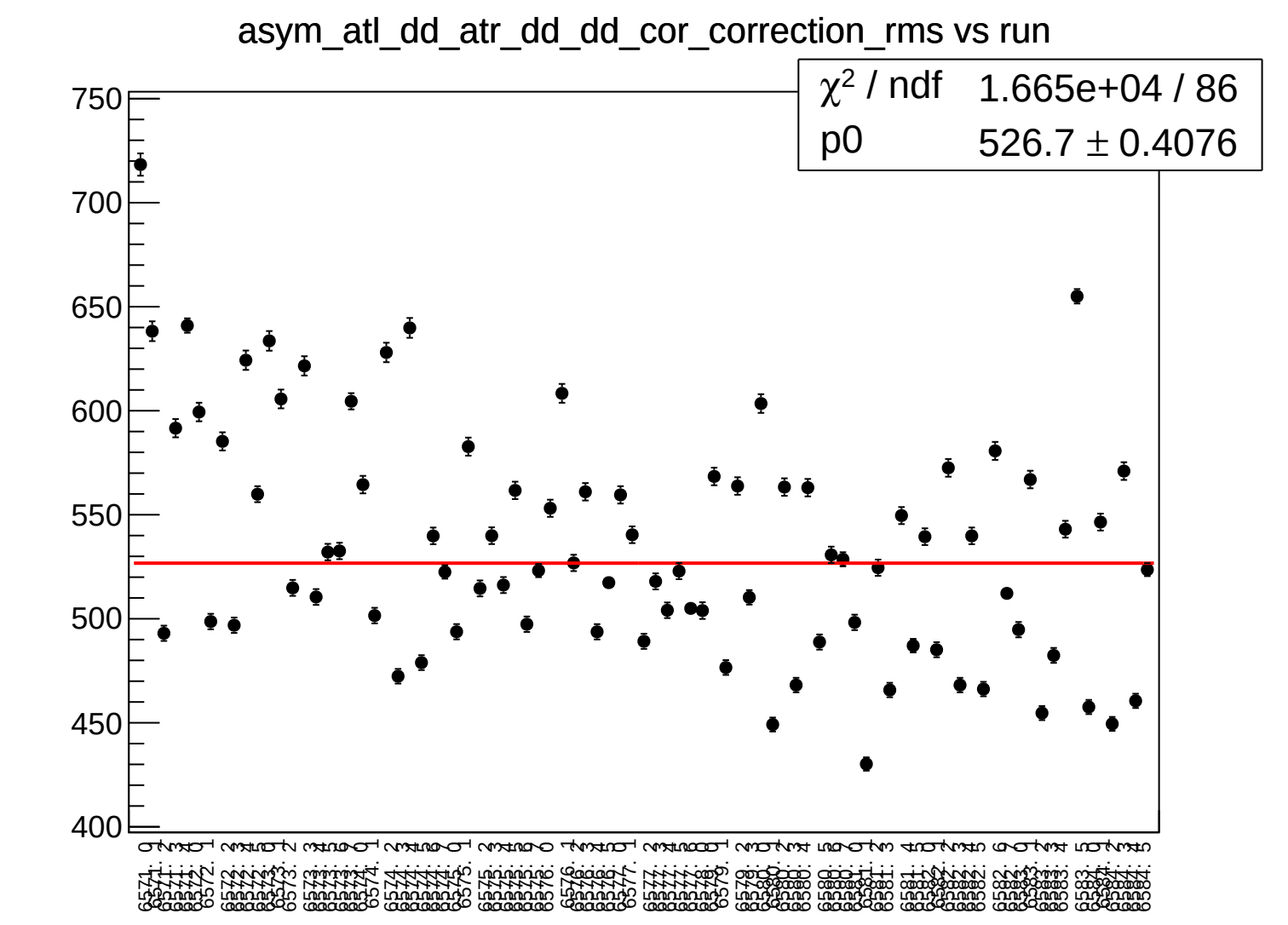

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.666e+04 / 86
p0 526.7 ± 0.4076
750
700
650
600
550
500
450
400

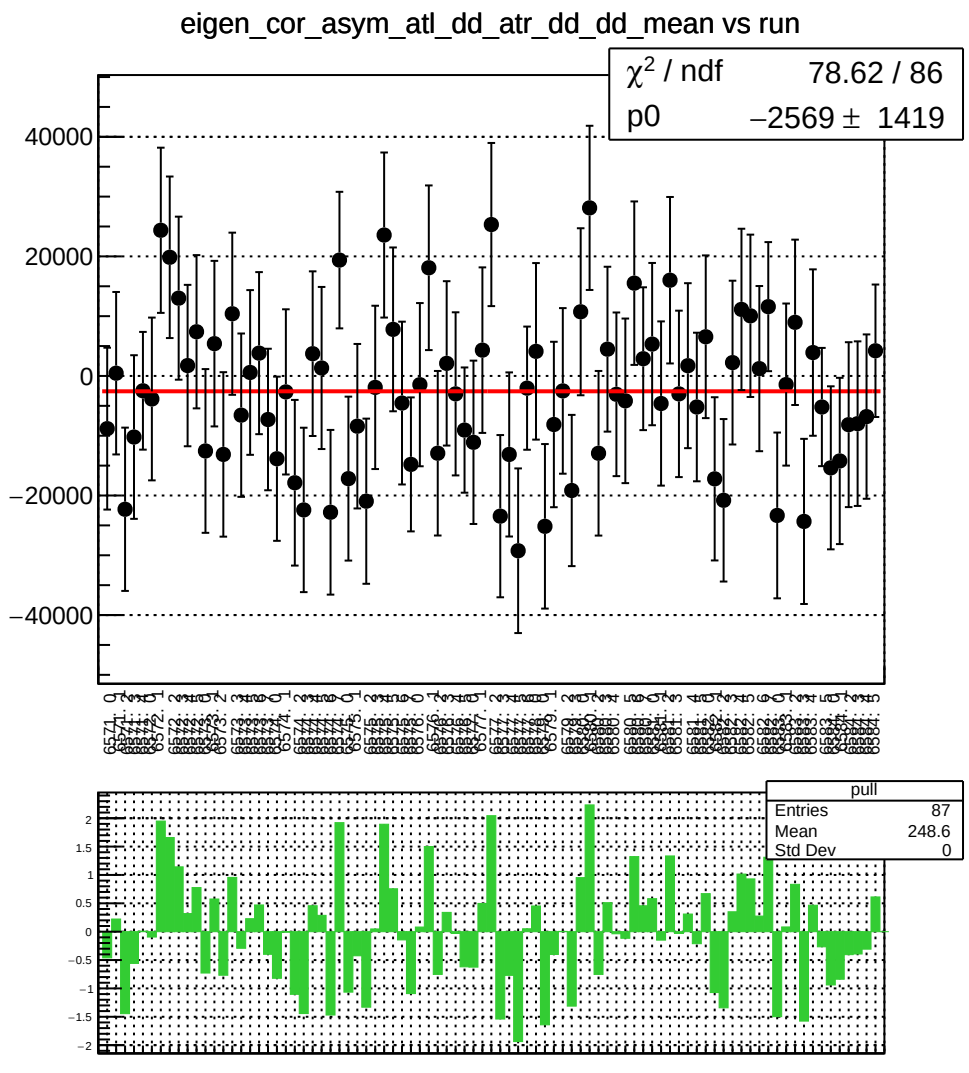

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.62 / 86
p0 −2569 ± 1419
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 248.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

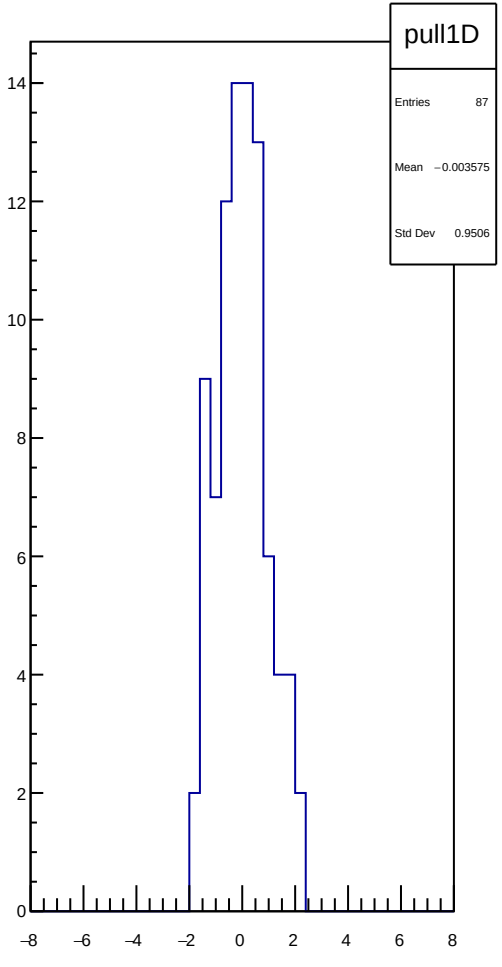

pull1D
Entries 87
Mean −0.003575
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

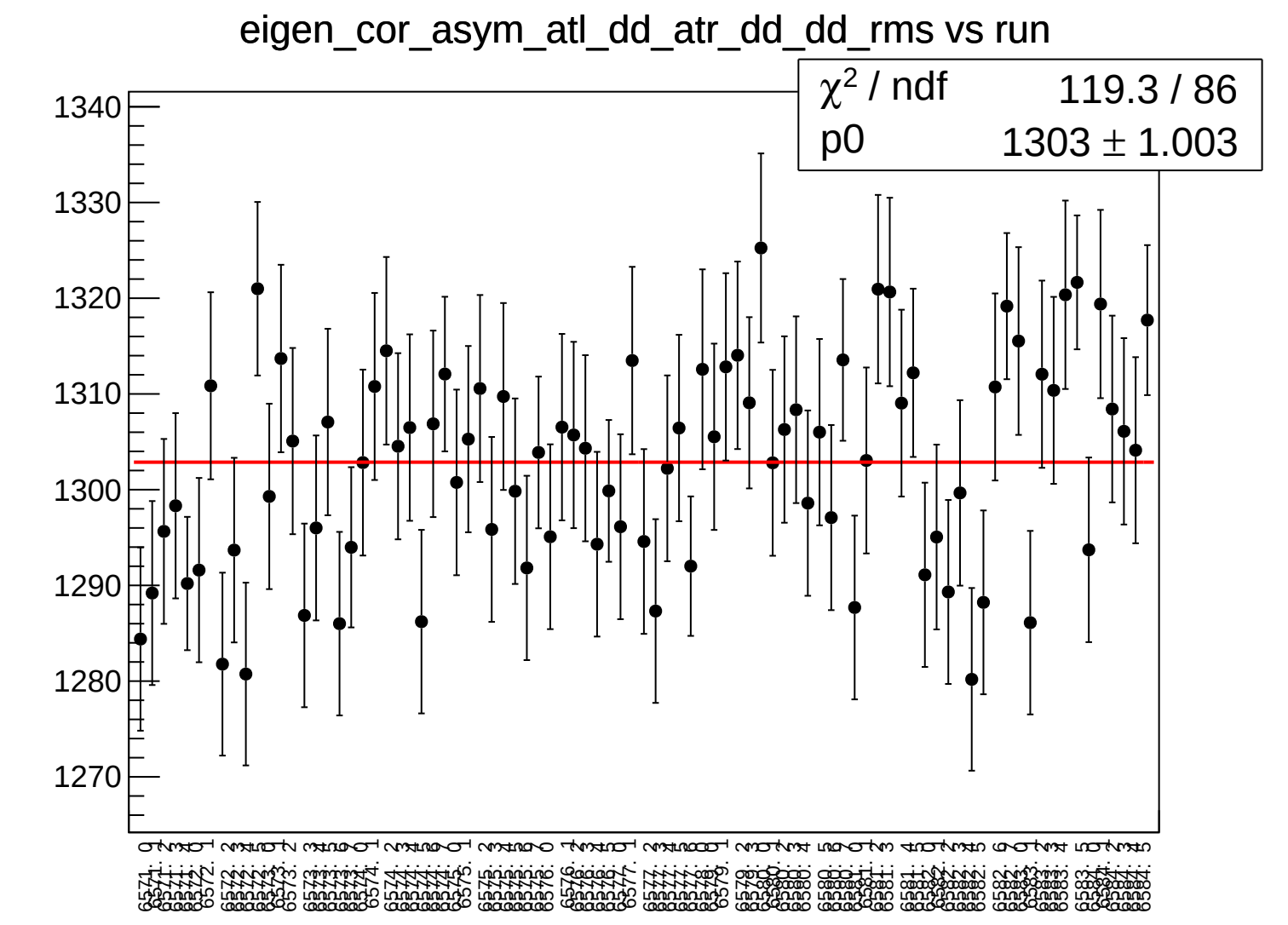

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 119.3 / 86
p0 1303 ± 1.003
1340
1330
1320
1310
1300
1290
1280
1270

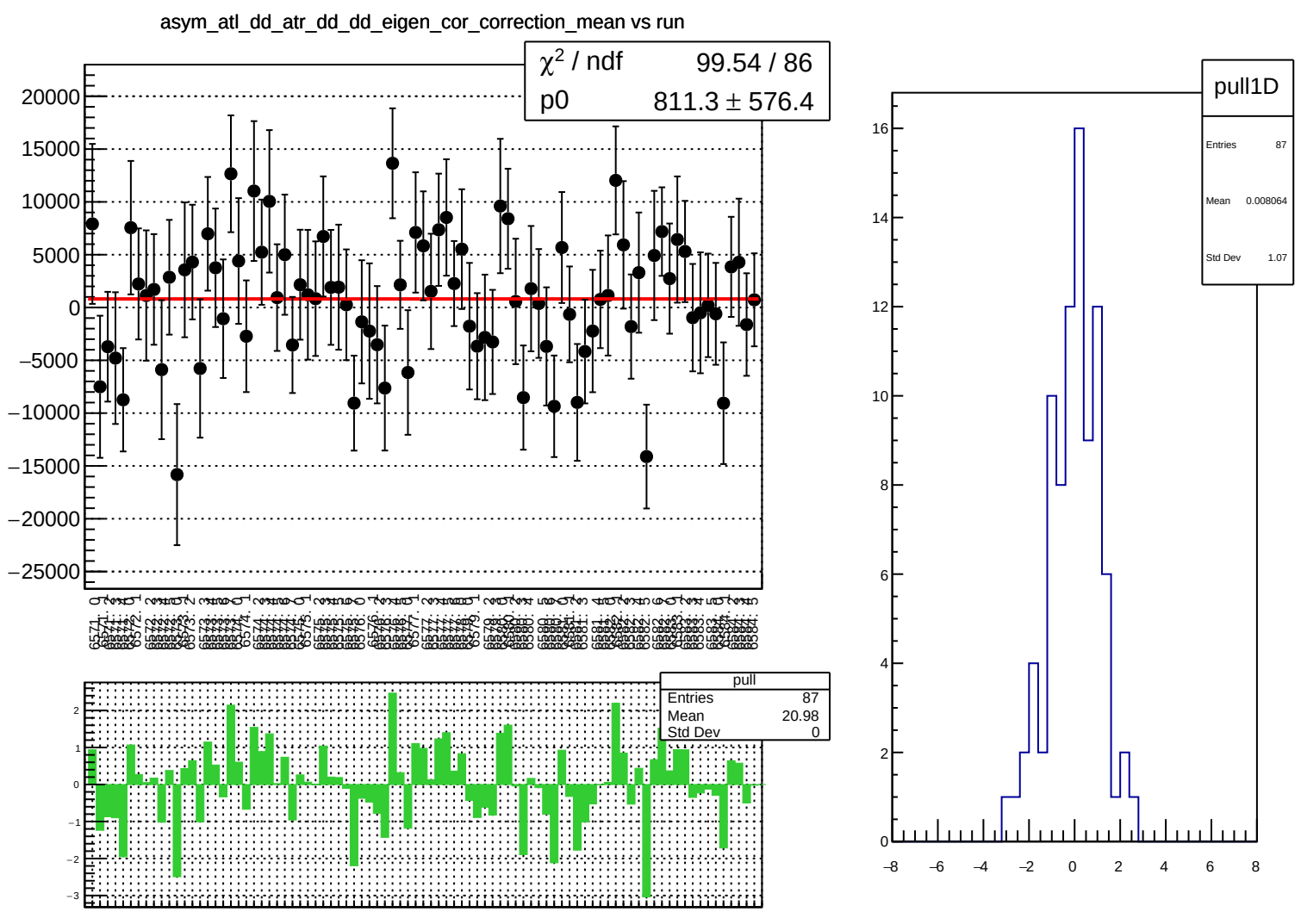

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 99.54 / 86
p0 811.3 ± 576.4
pull
Entries 87
Mean 20.98
Std Dev 0
pull1D
Entries 87
Mean 0.008064
Std Dev 1.07

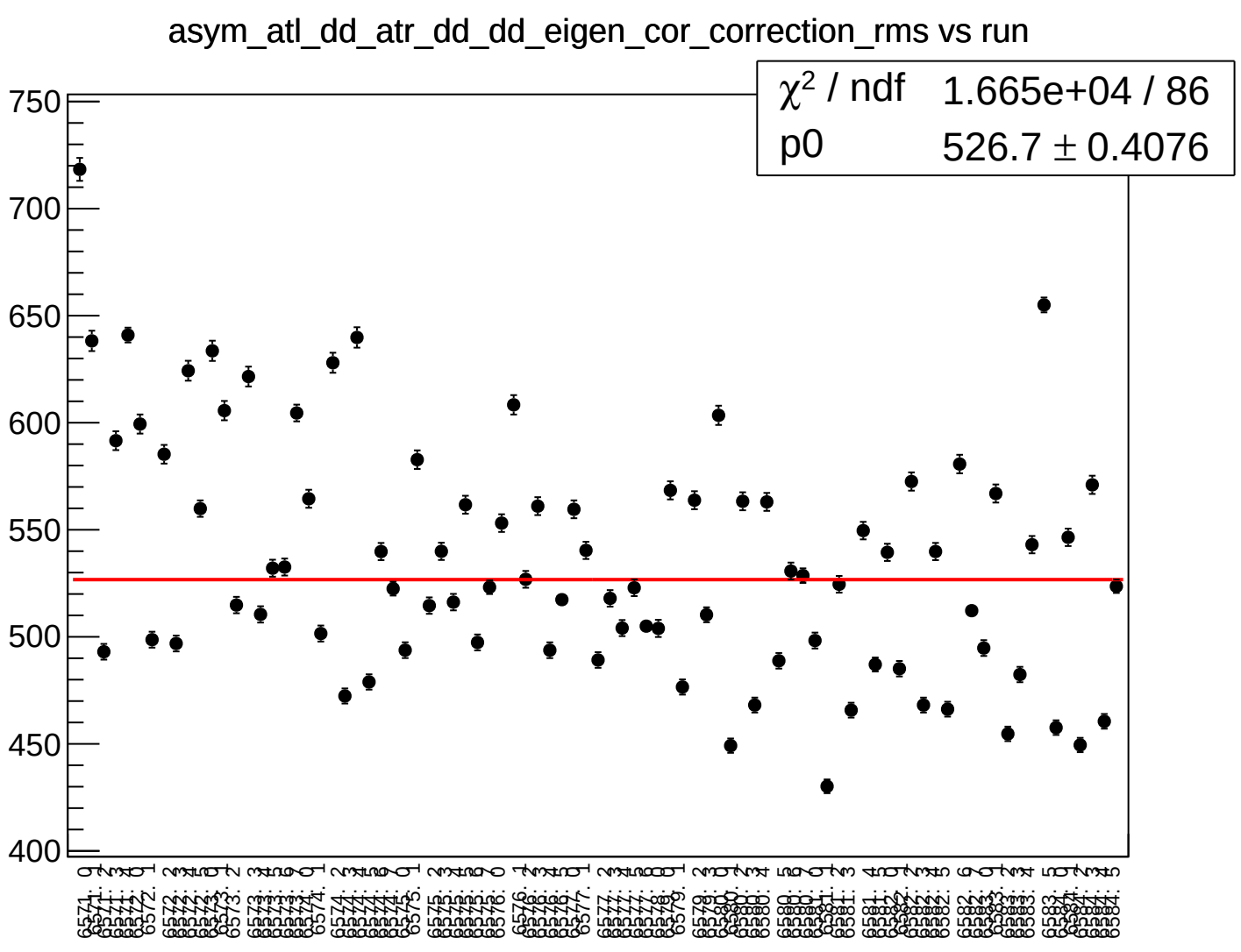

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.665e+04 / 86
p0 526.7 ± 0.4076
750
700
650
600
550
500
450
400

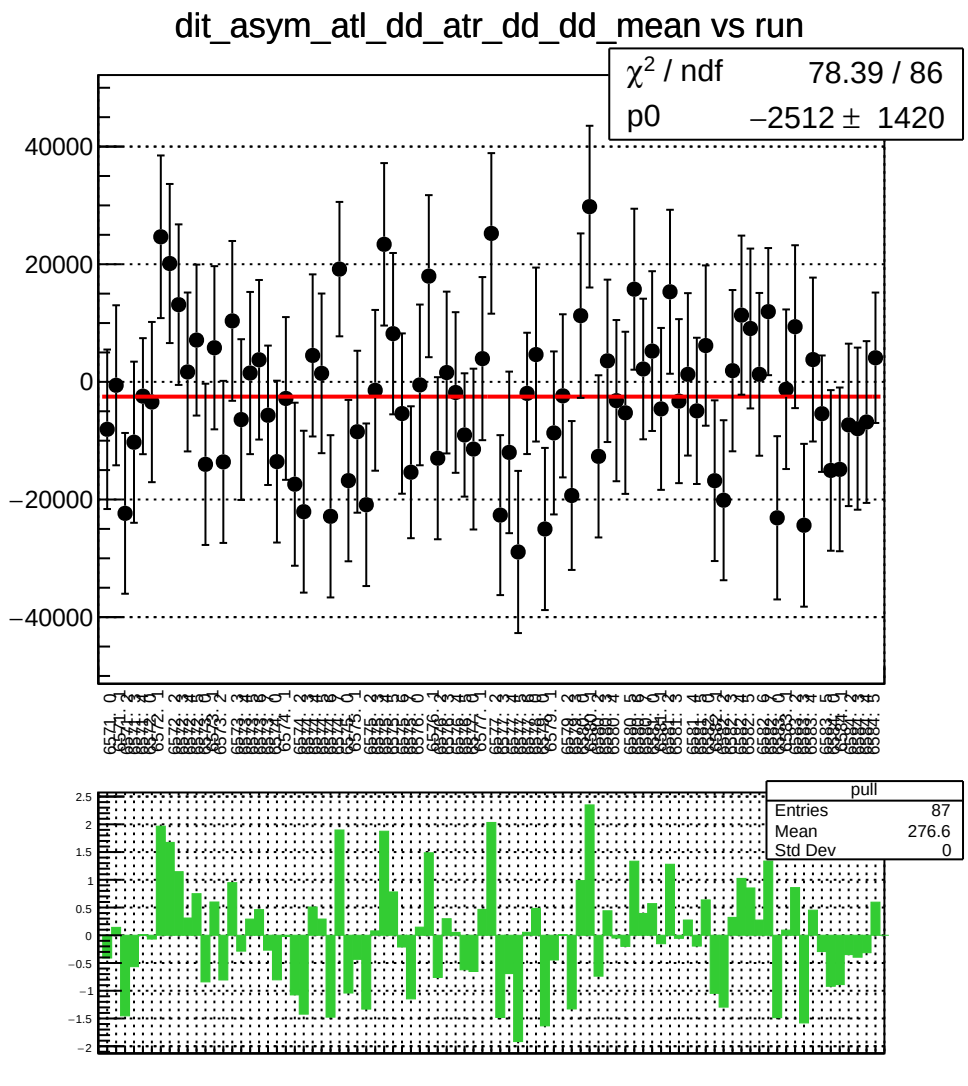

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.62 / 86
p0 −2569 ± 1419
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 248.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

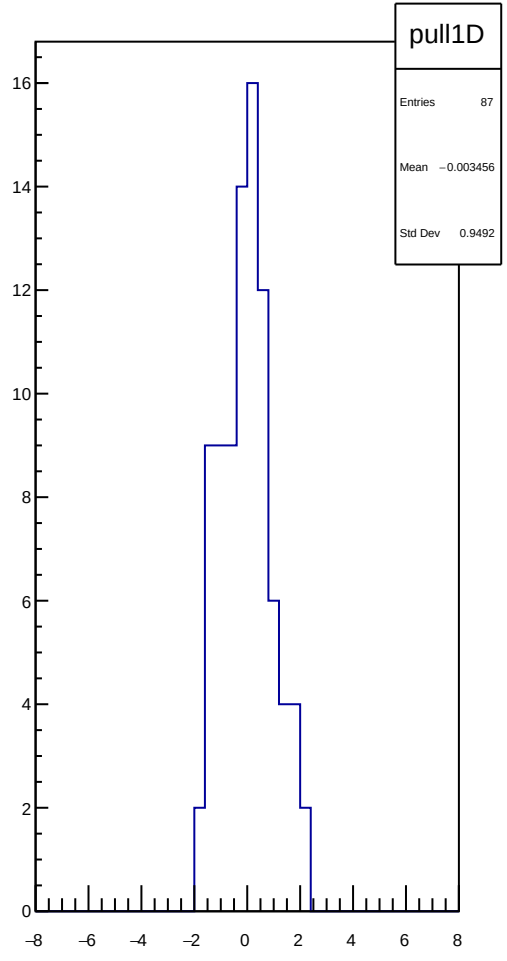

pull1D
Entries 87
Mean −0.003575
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

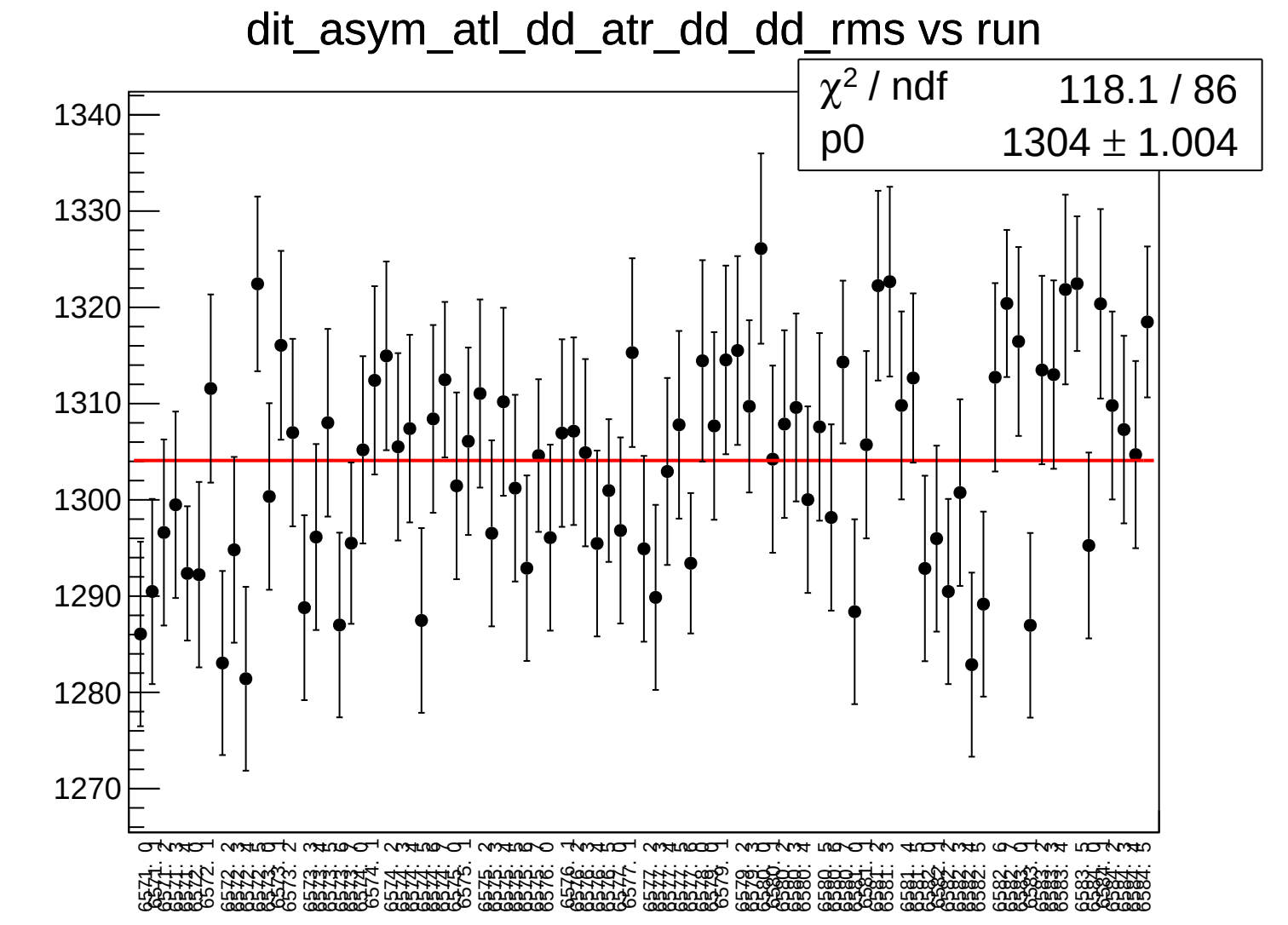

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 119.3 / 86
p0 1303 ± 1.003
1340
1330
1320
1310
1300
1290
1280
1270

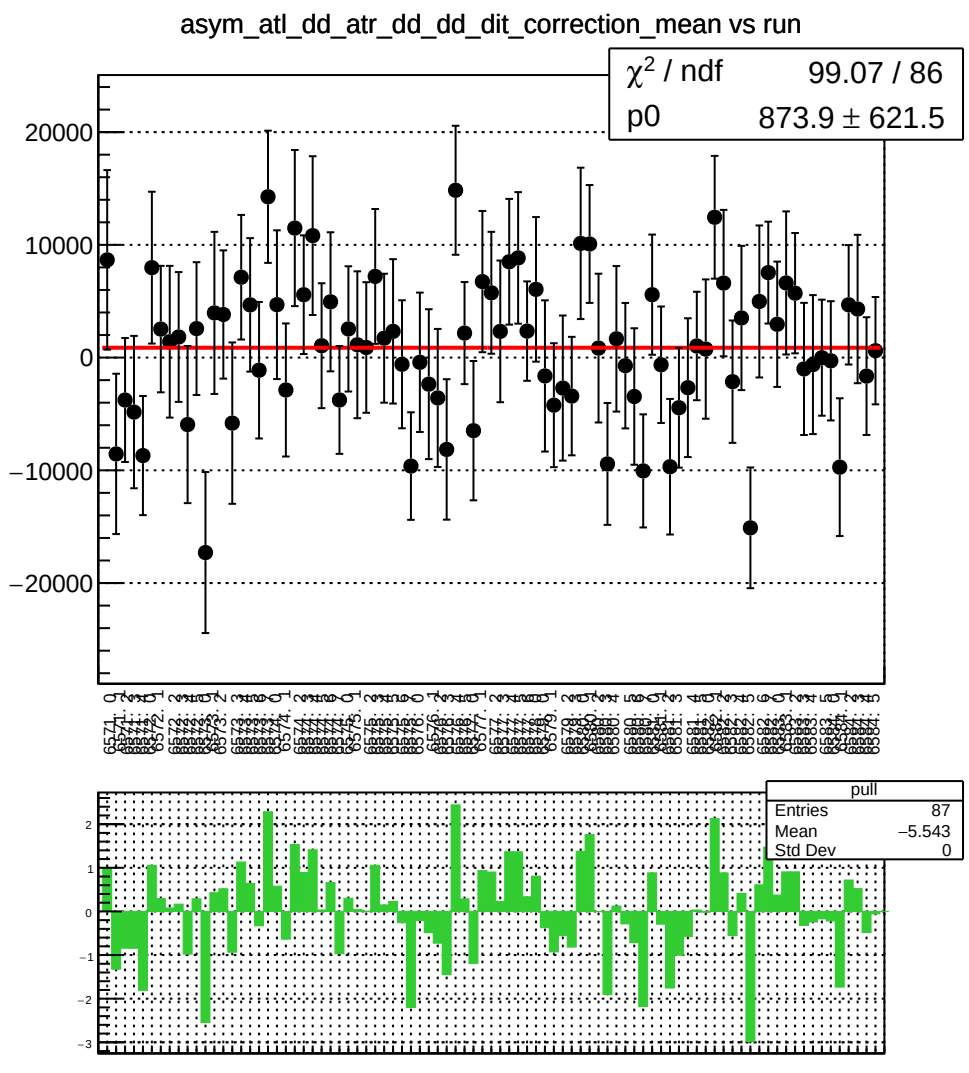

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.54 / 86
p0 811.3 ± 576.4
pull
Entries 87
Mean 20.98
Std Dev 0
pull1D
Entries 87
Mean 0.008064
Std Dev 1.07

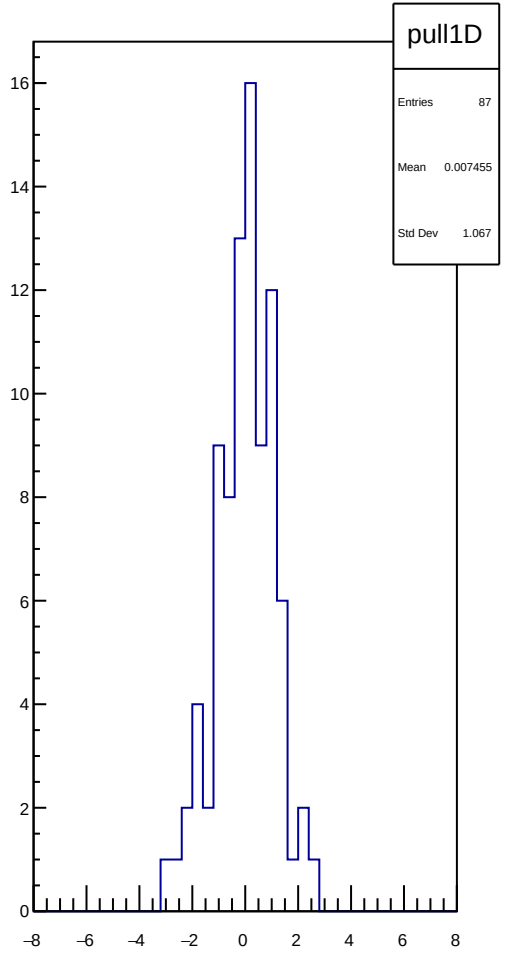

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.665e+04 / 86
p0 526.7 ± 0.4076
750
700
650
600
550
500
450
400

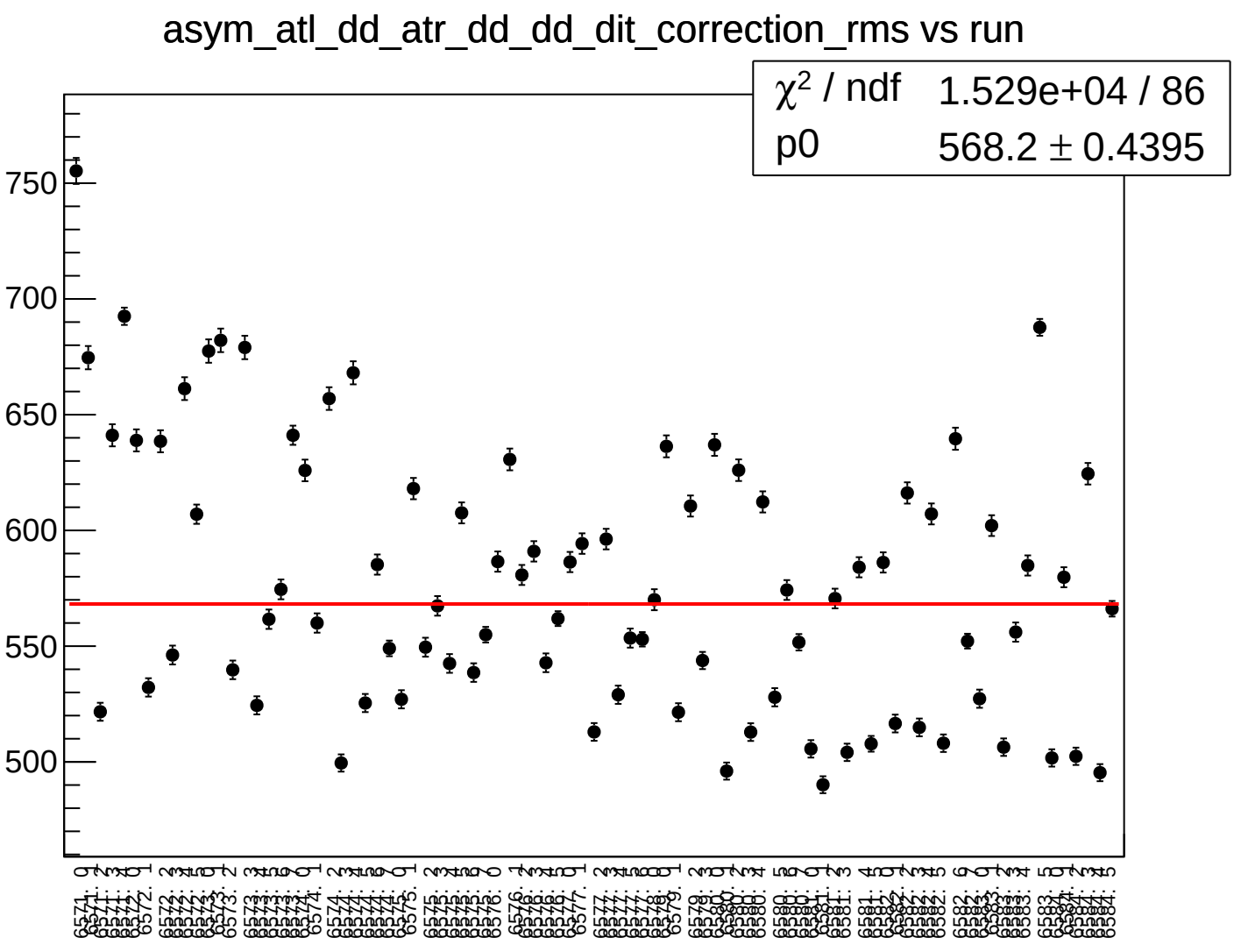

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.39 / 86
p0 −2512 ± 1420
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 276.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

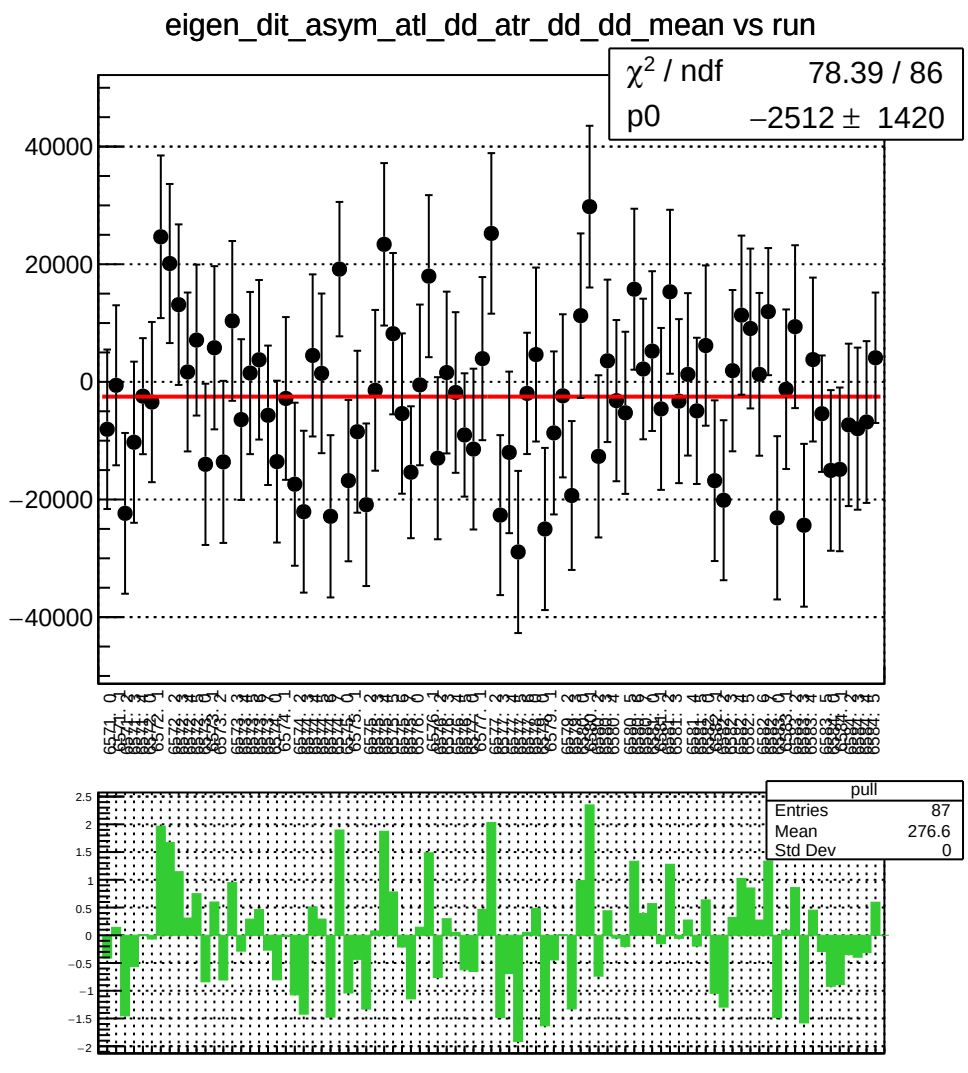

pull1D
Entries 87
Mean −0.003456
Std Dev 0.9492
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

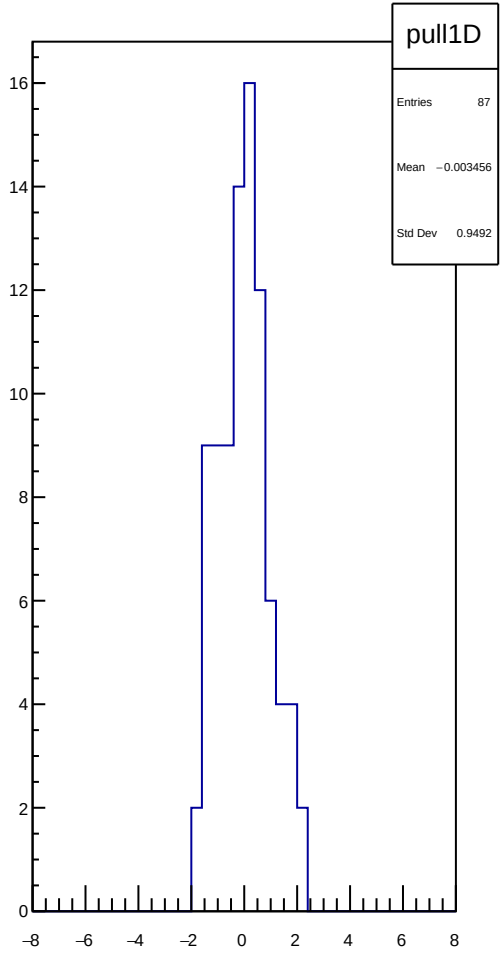

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 118.1 / 86
p0 1304 ± 1.004
1340
1330
1320
1310
1300
1290
1280
1270

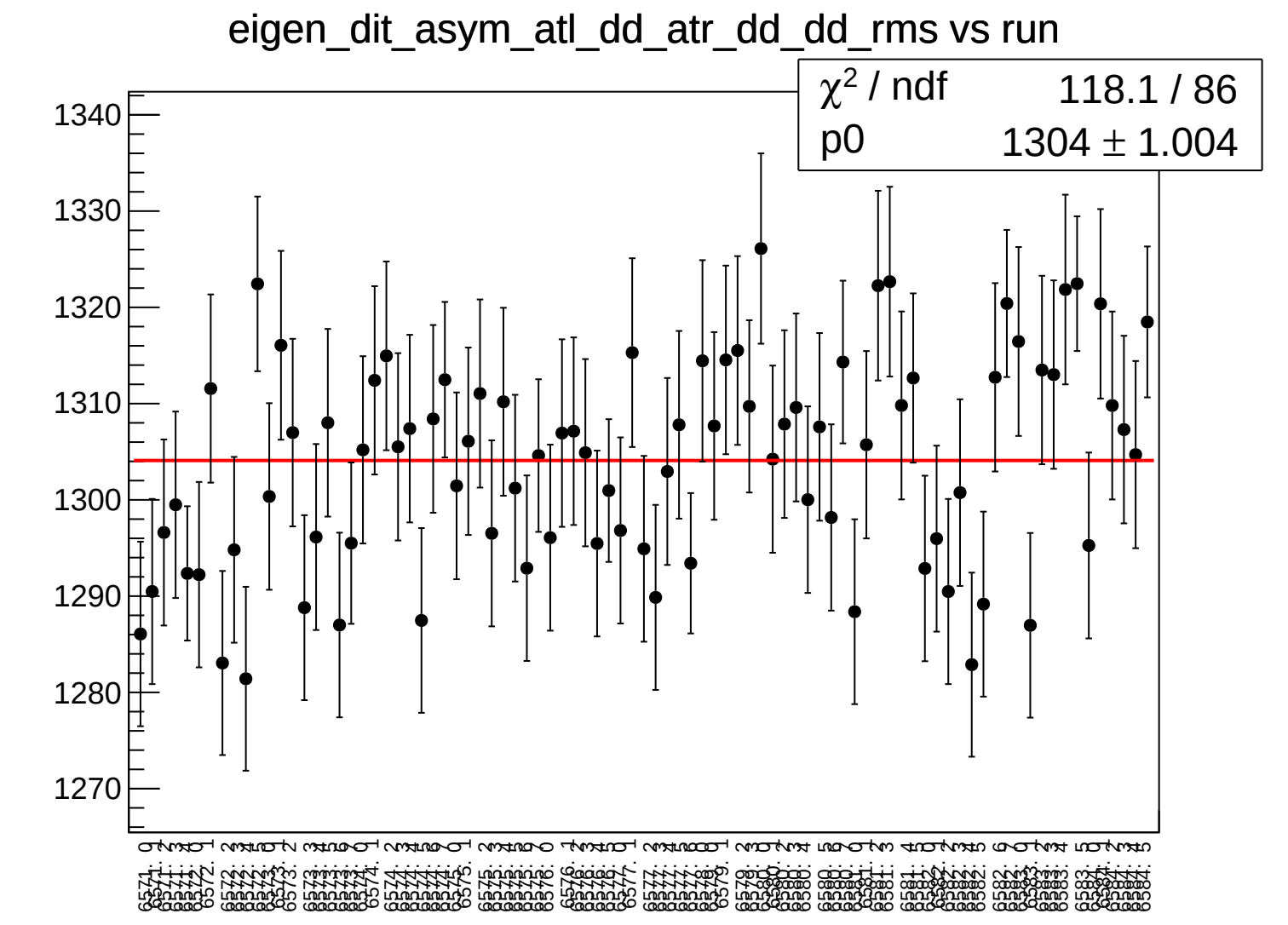

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 99.07 / 86
p0 873.9 ± 621.5
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −5.543
Std Dev 0
2
1
0
−1
−2
−3

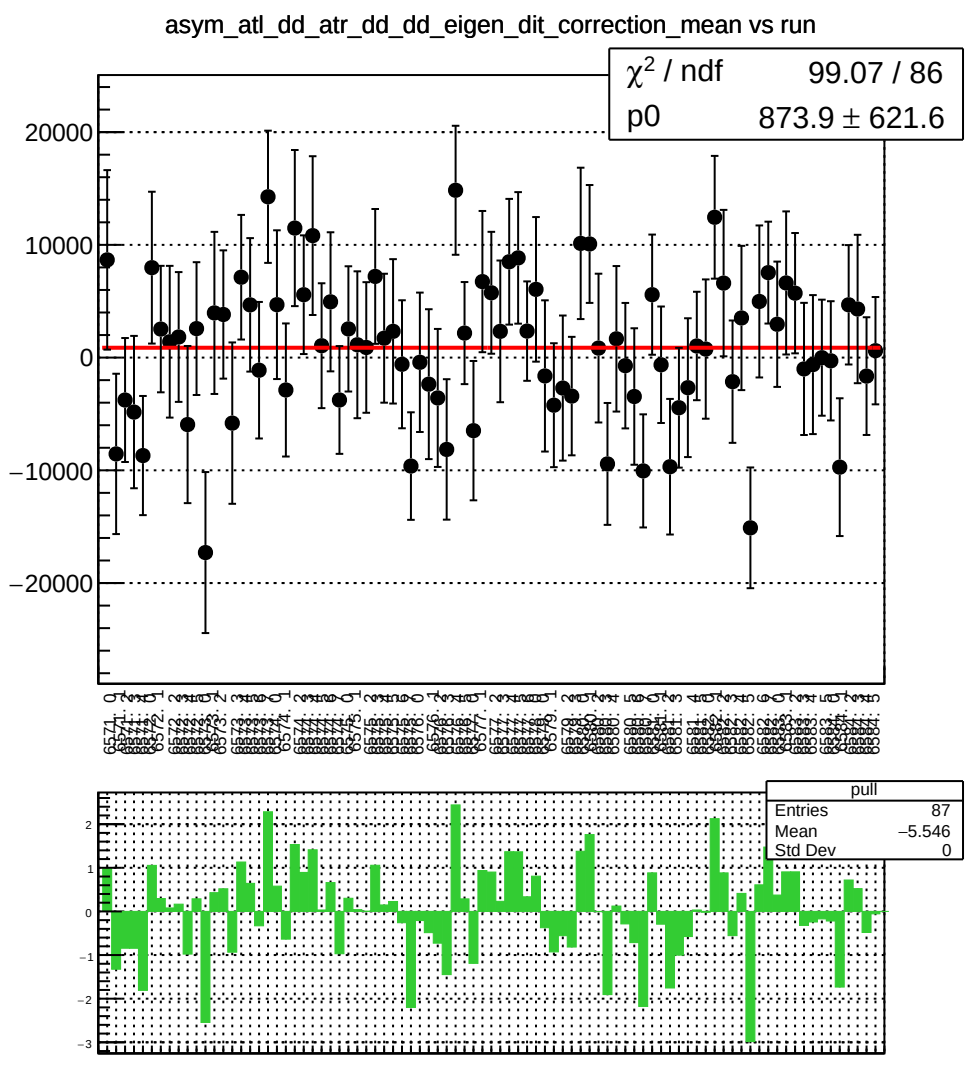

pull1D
Entries 87
Mean 0.007455
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

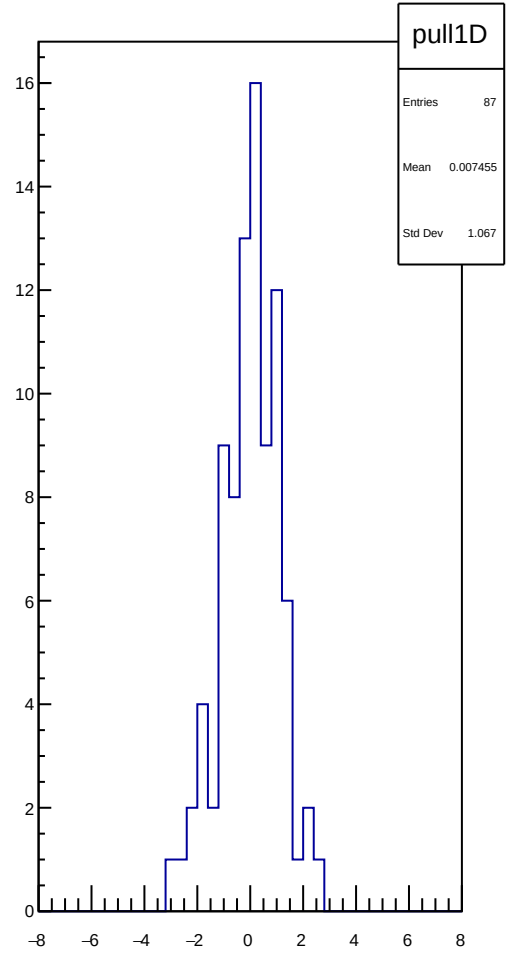

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.529e+04 / 86
p0 568.2 ± 0.4395
750
700
650
600
550
500

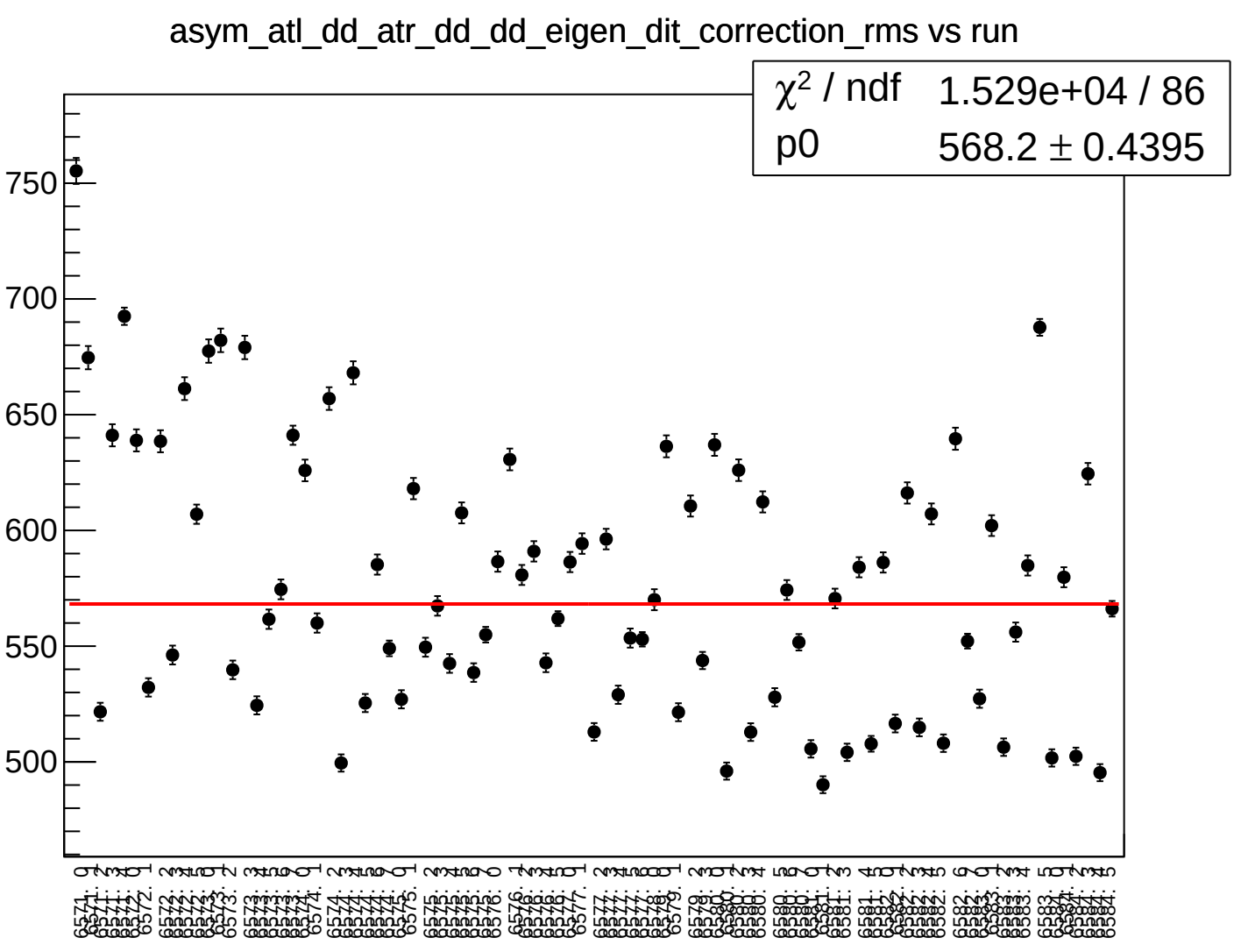

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.39 / 86
p0 −2512 ± 1420
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 276.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

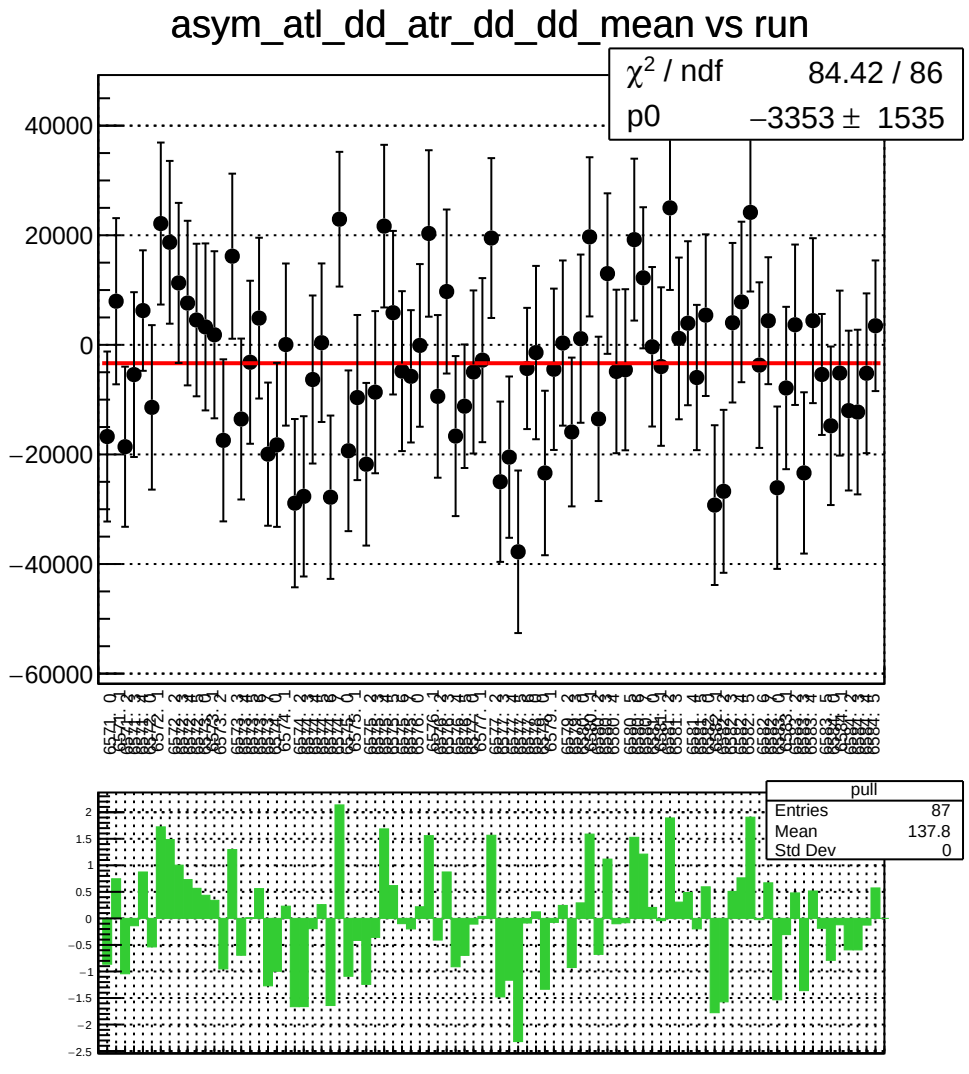

pull1D
Entries 87
Mean −0.003456
Std Dev 0.9492
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

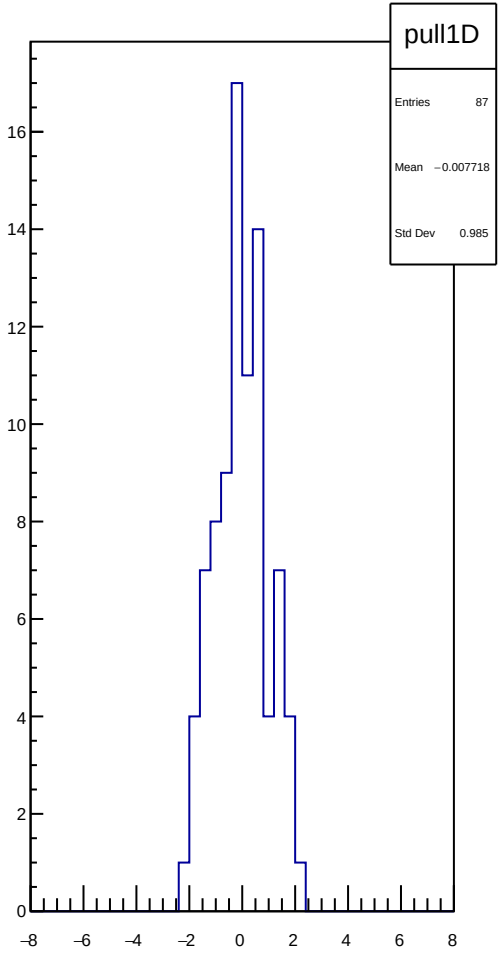

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 118.1 / 86
p0 1304 ± 1.004
1340
1330
1320
1310
1300
1290
1280
1270

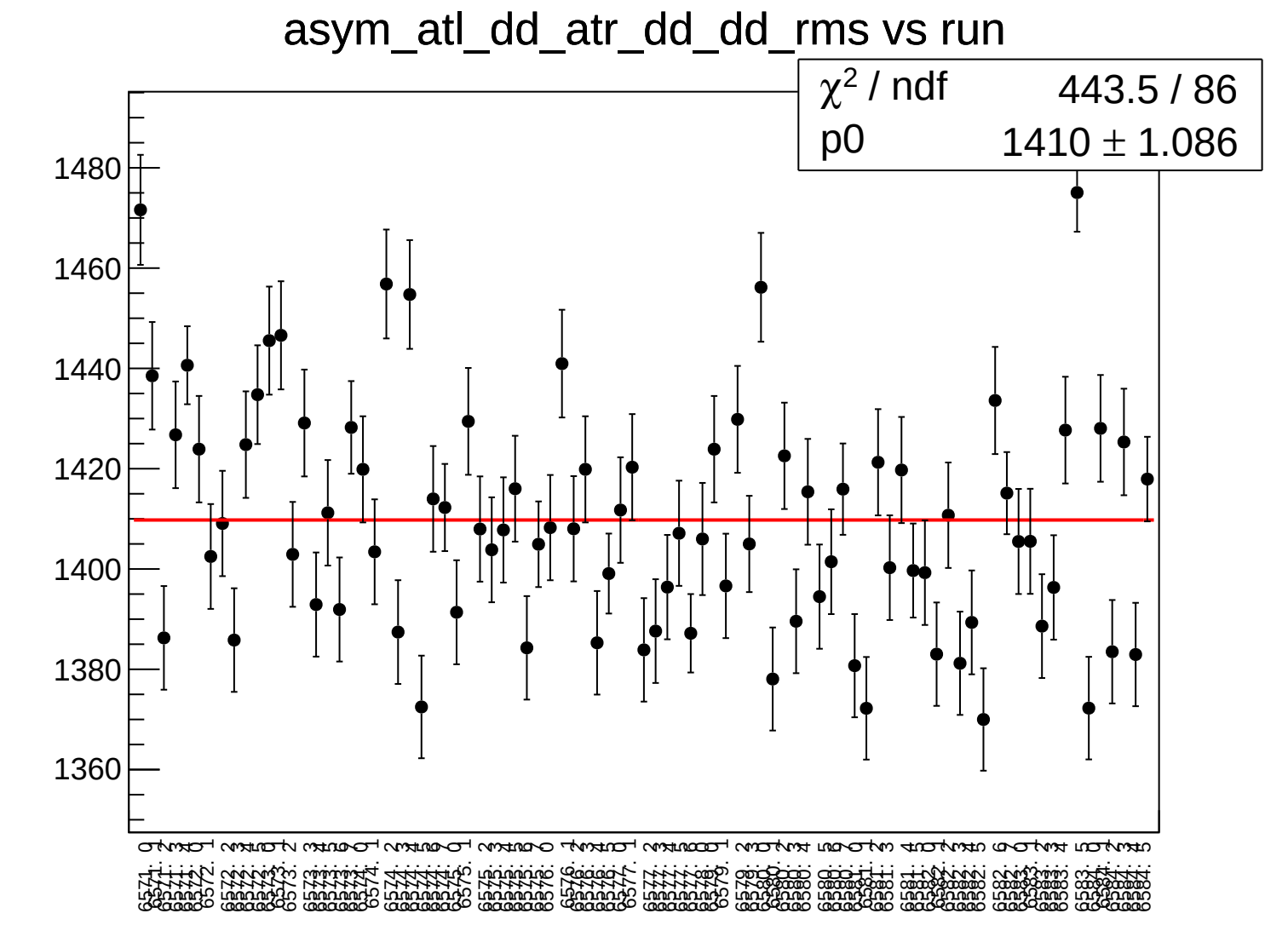

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.07 / 86
p0 873.9 ± 621.6
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −5.546
Std Dev 0
2
1
0
−1
−2
−3

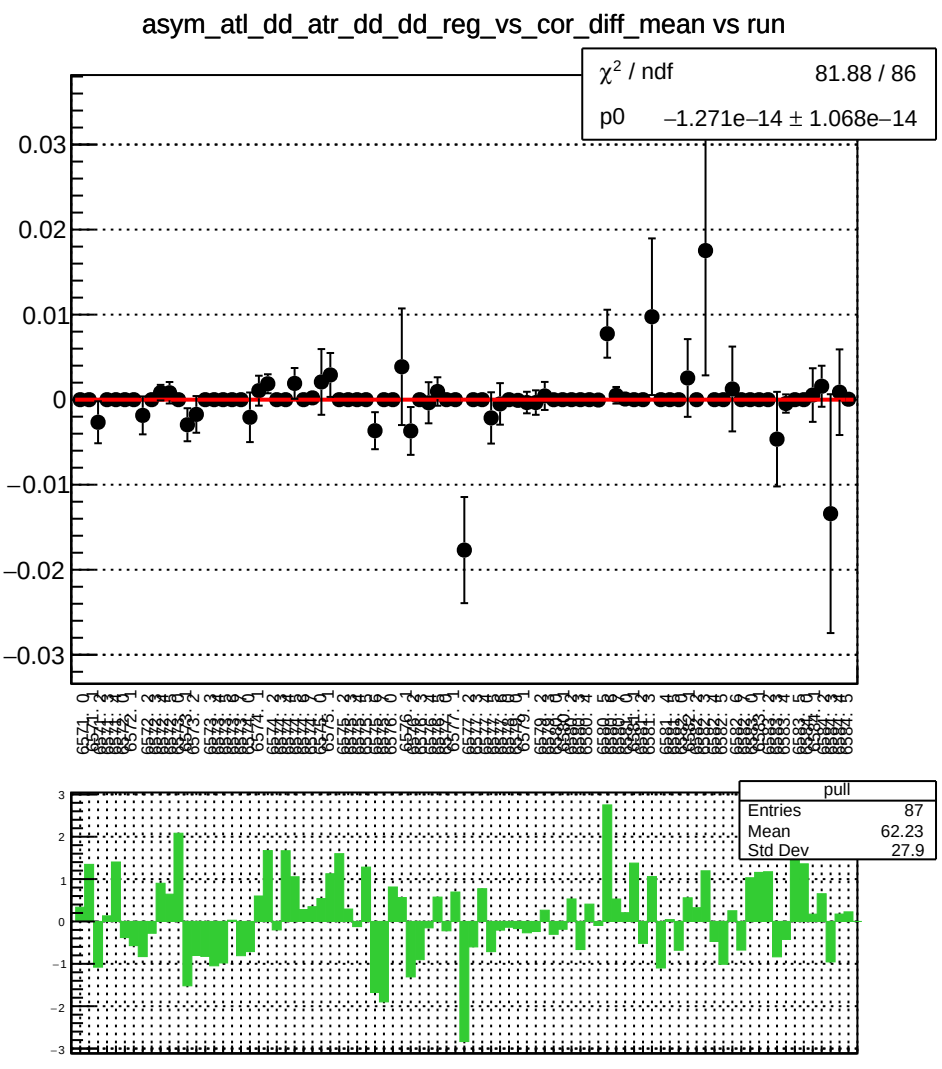

pull1D
Entries 87
Mean 0.007455
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

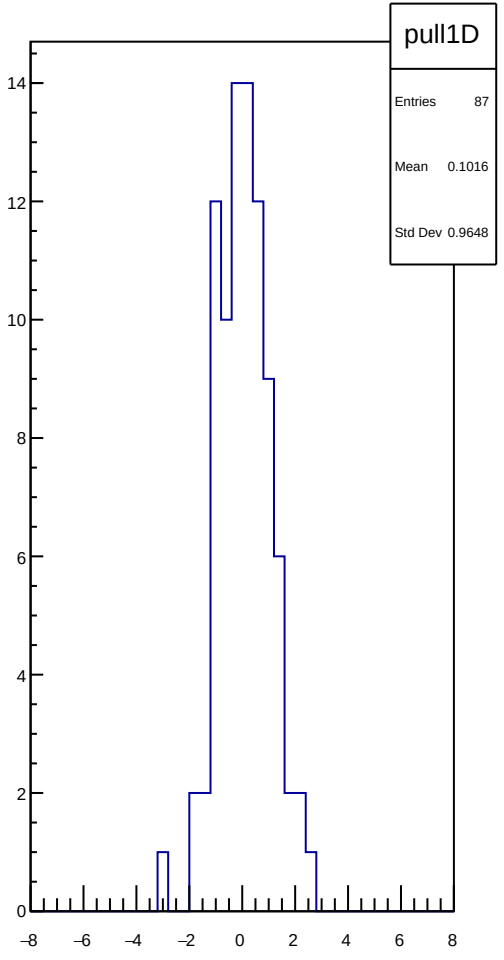

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.529e+04 / 86
p0 568.2 ± 0.4395
750
700
650
600
550
500

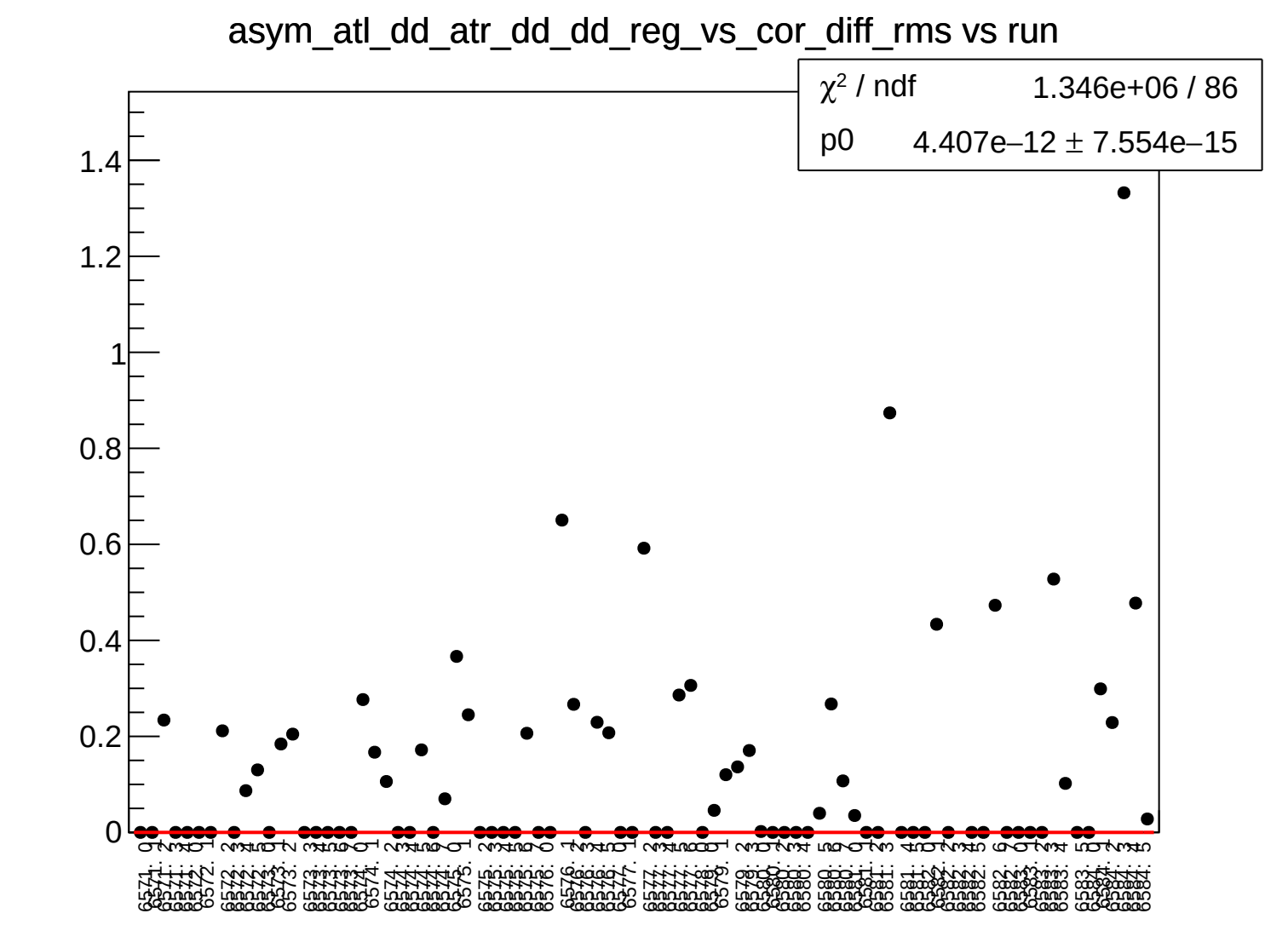

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.42 / 86
p0 −3353 ± 1535
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 137.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

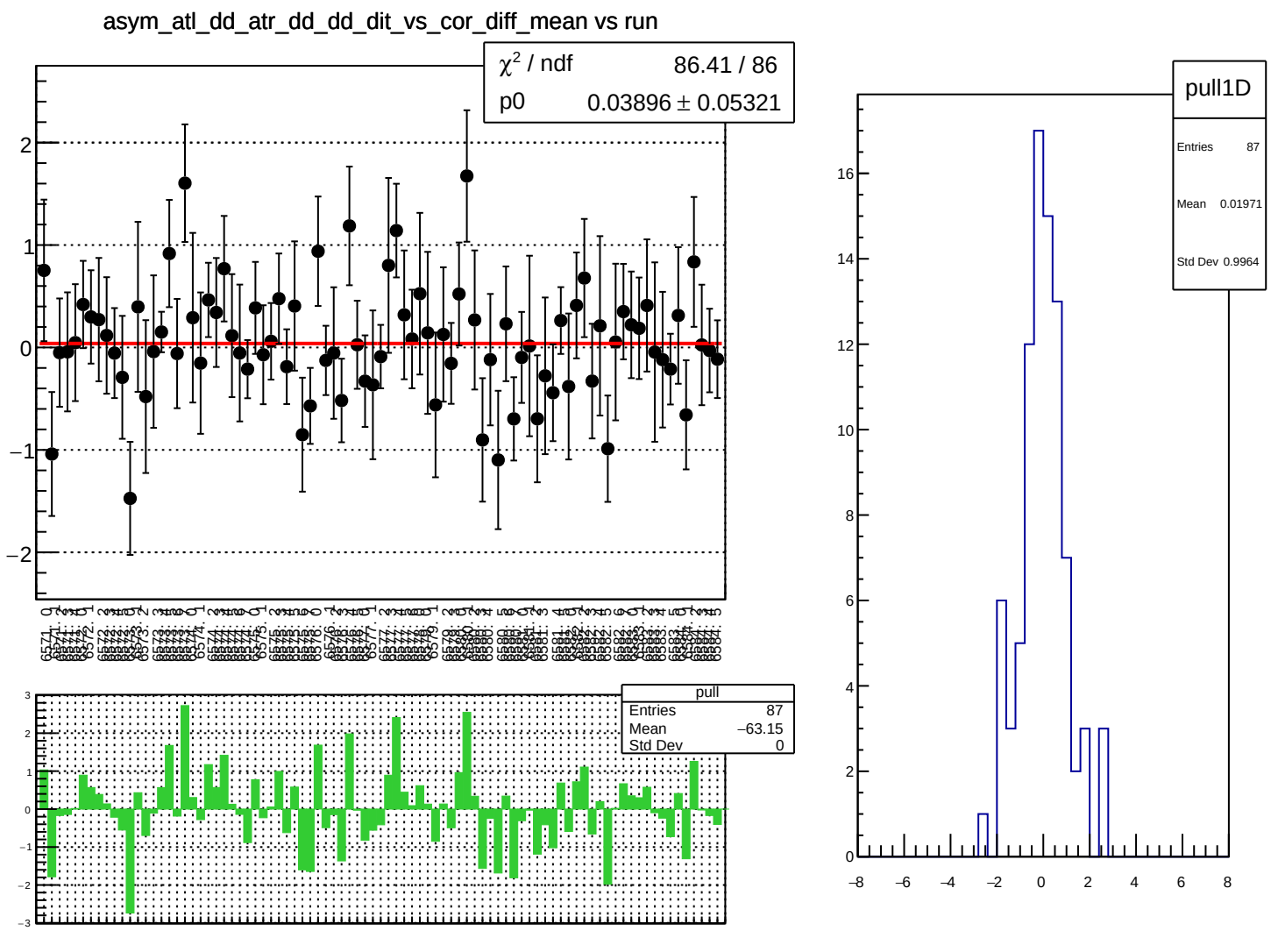

pull1D
Entries 87
Mean −0.007718
Std Dev 0.985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

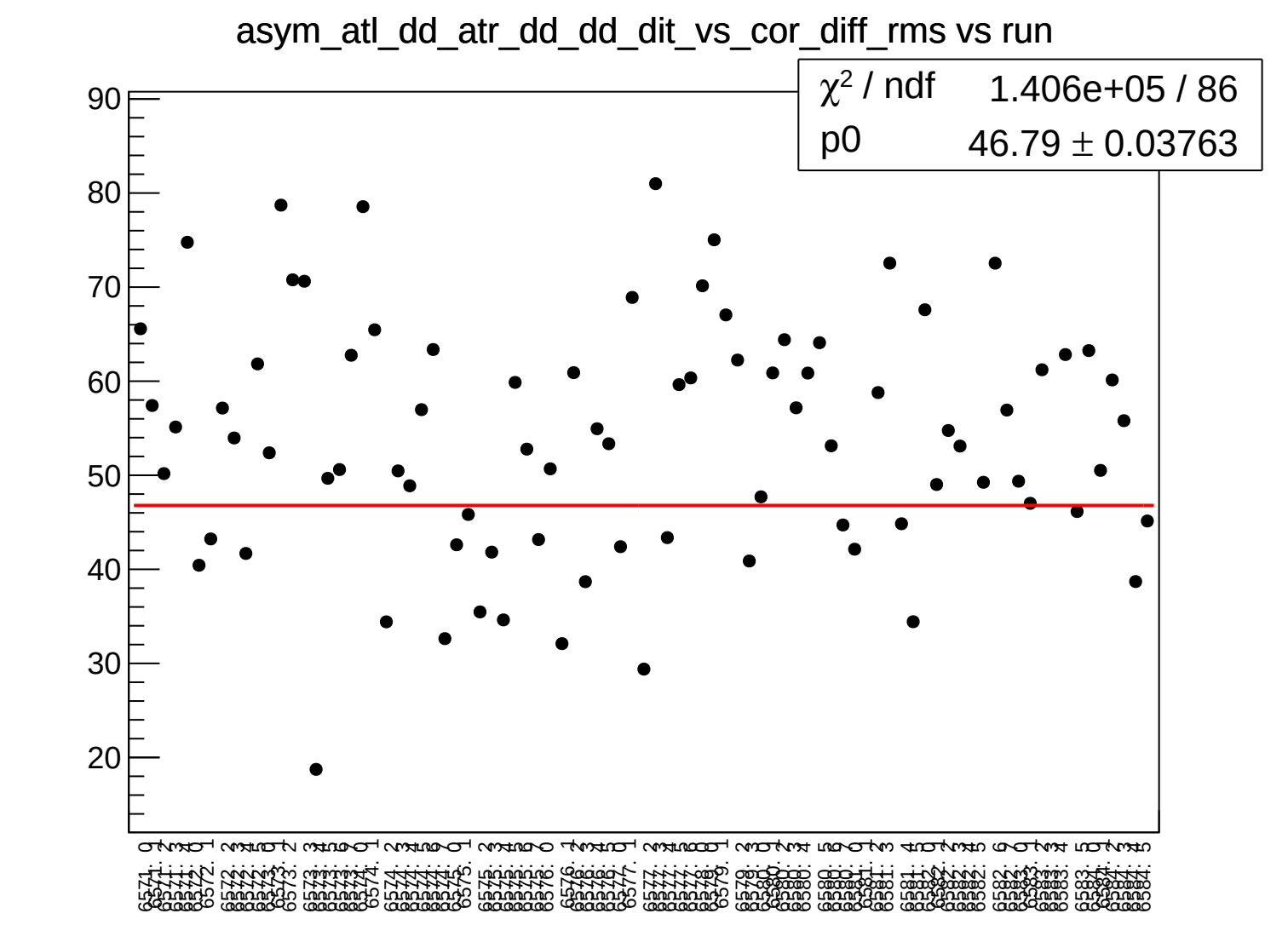

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 443.5 / 86
p0 1410 ± 1.086
1480
1460
1440
1420
1400
1380
1360


asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.88 / 86
p0 −1.271e−14 ± 1.068e−14
pull
Entries 87
Mean 62.23
Std Dev 27.9

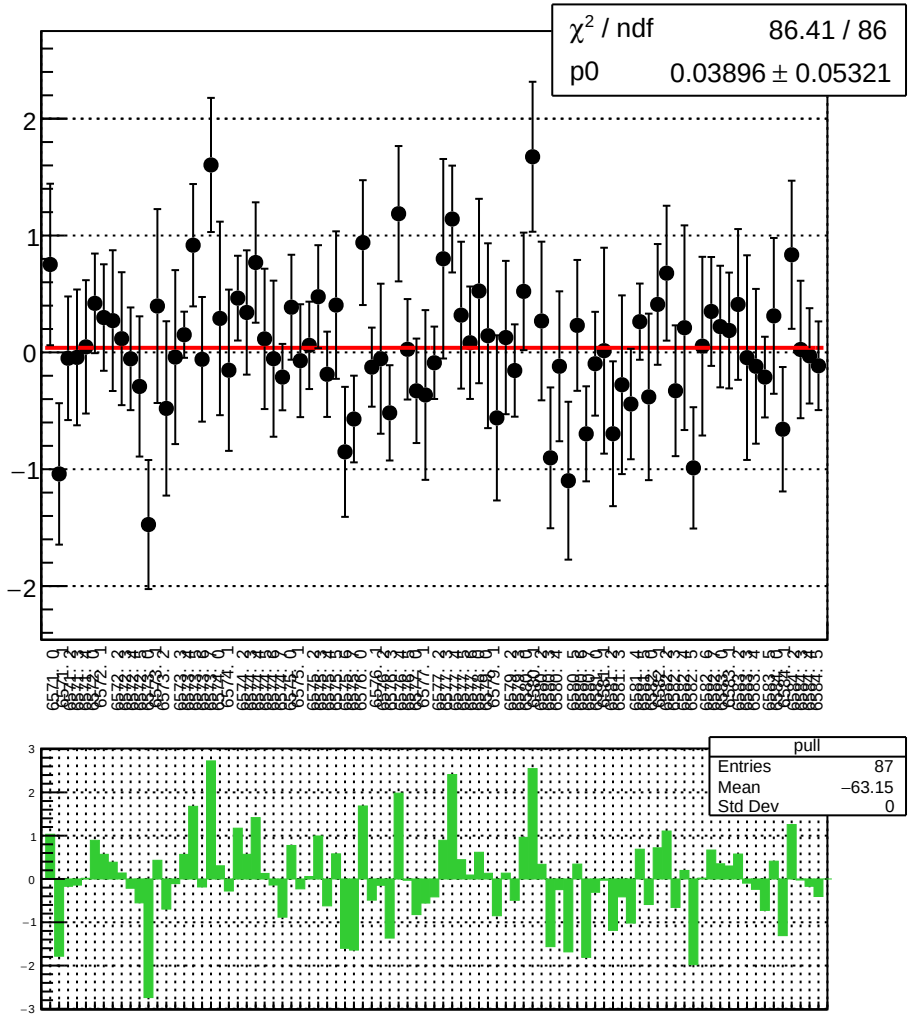

pull1D
Entries 87
Mean 0.1016
Std Dev 0.9648

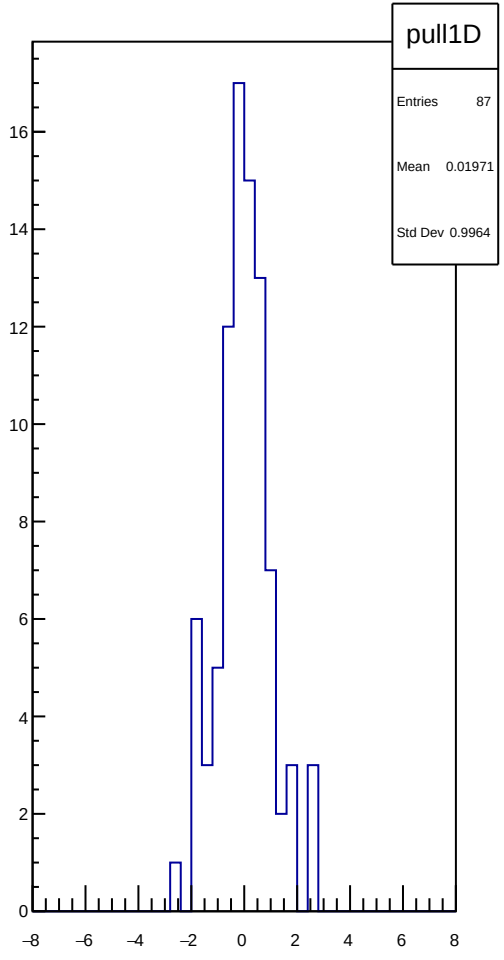

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.346e+06 / 86
p0 4.407e−12 ± 7.554e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

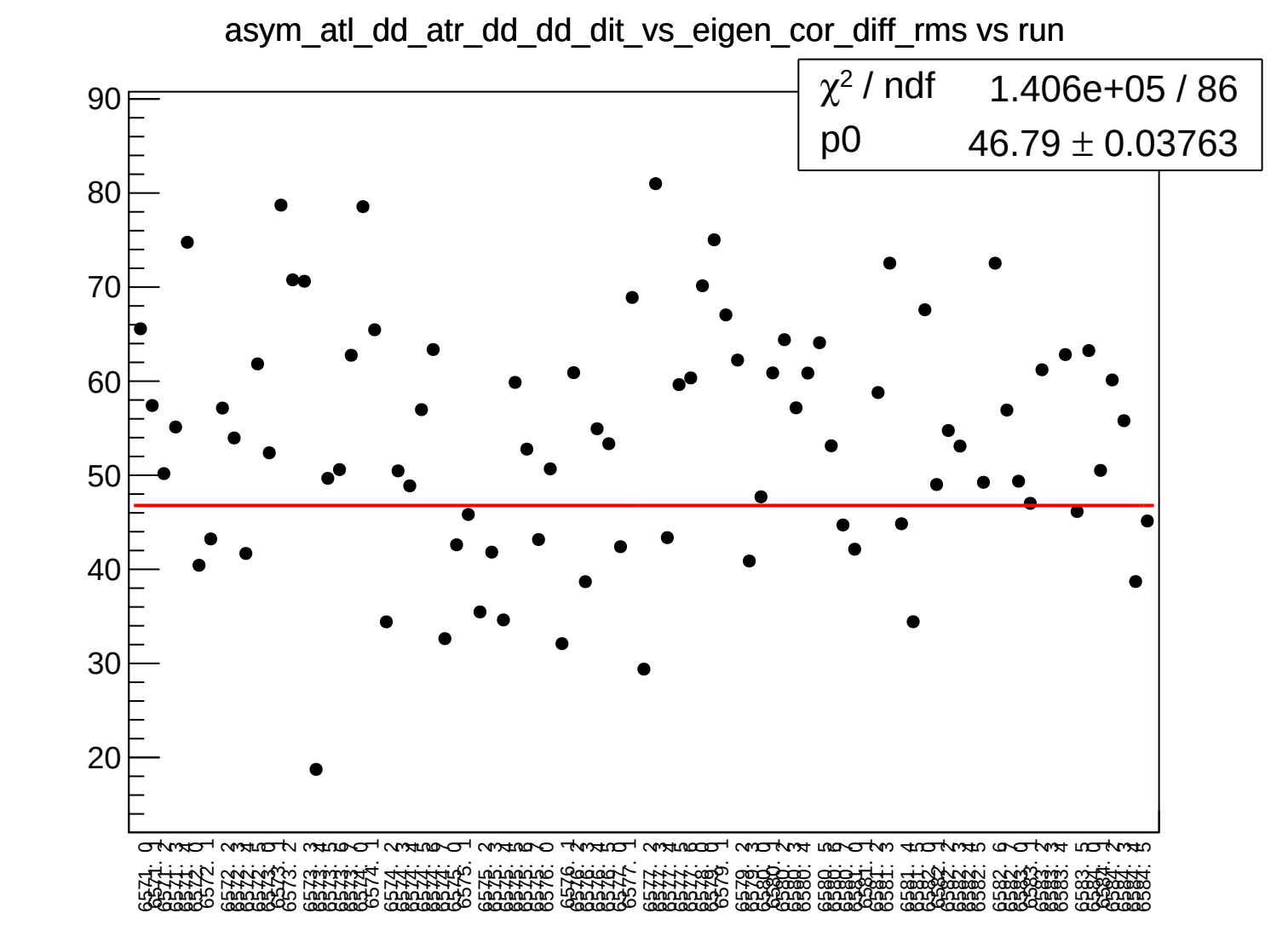

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.41 / 86
p0 0.03896 ± 0.05321
pull
Entries 87
Mean −63.15
Std Dev 0
pull1D
Entries 87
Mean 0.01971
Std Dev 0.9964

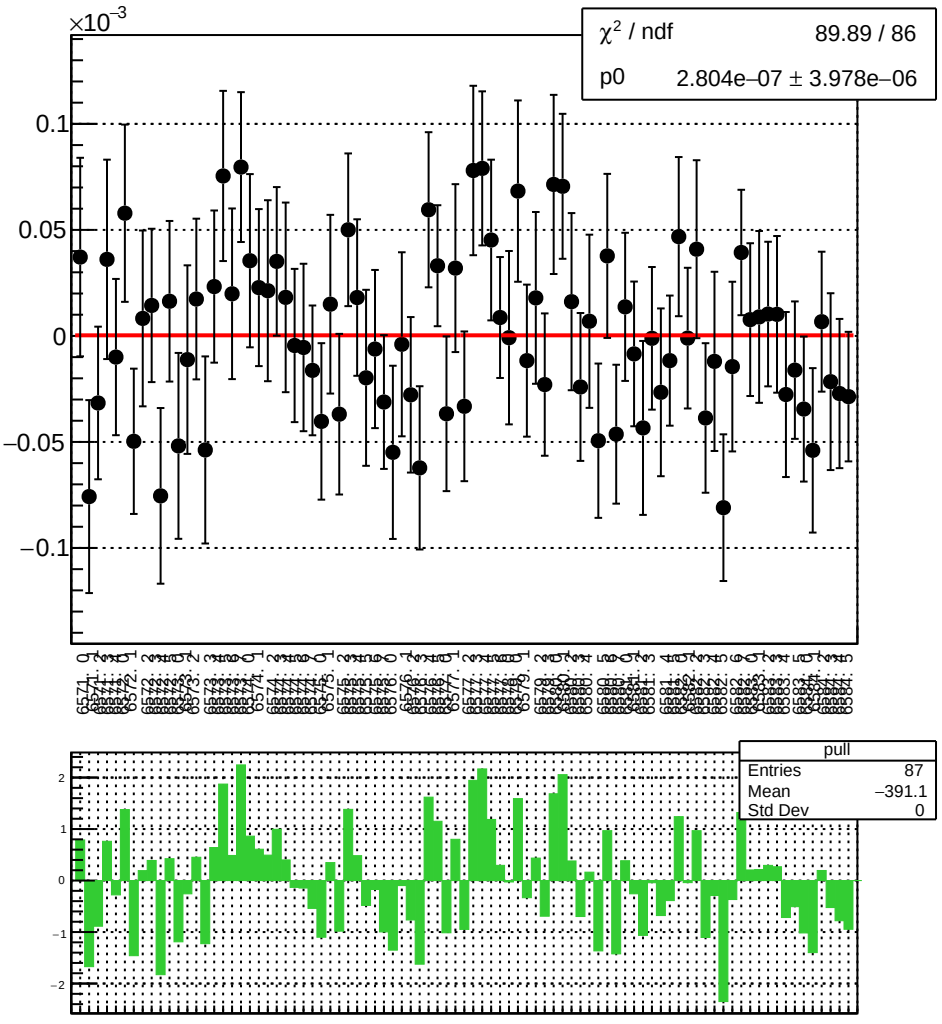

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 86
p0 46.79 ± 0.03763
90
80
70
60
50
40
30
20

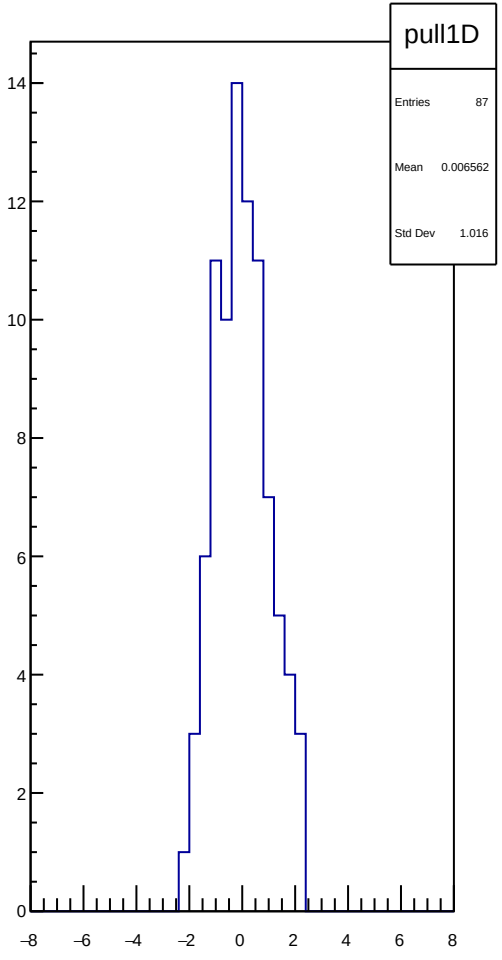
asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run

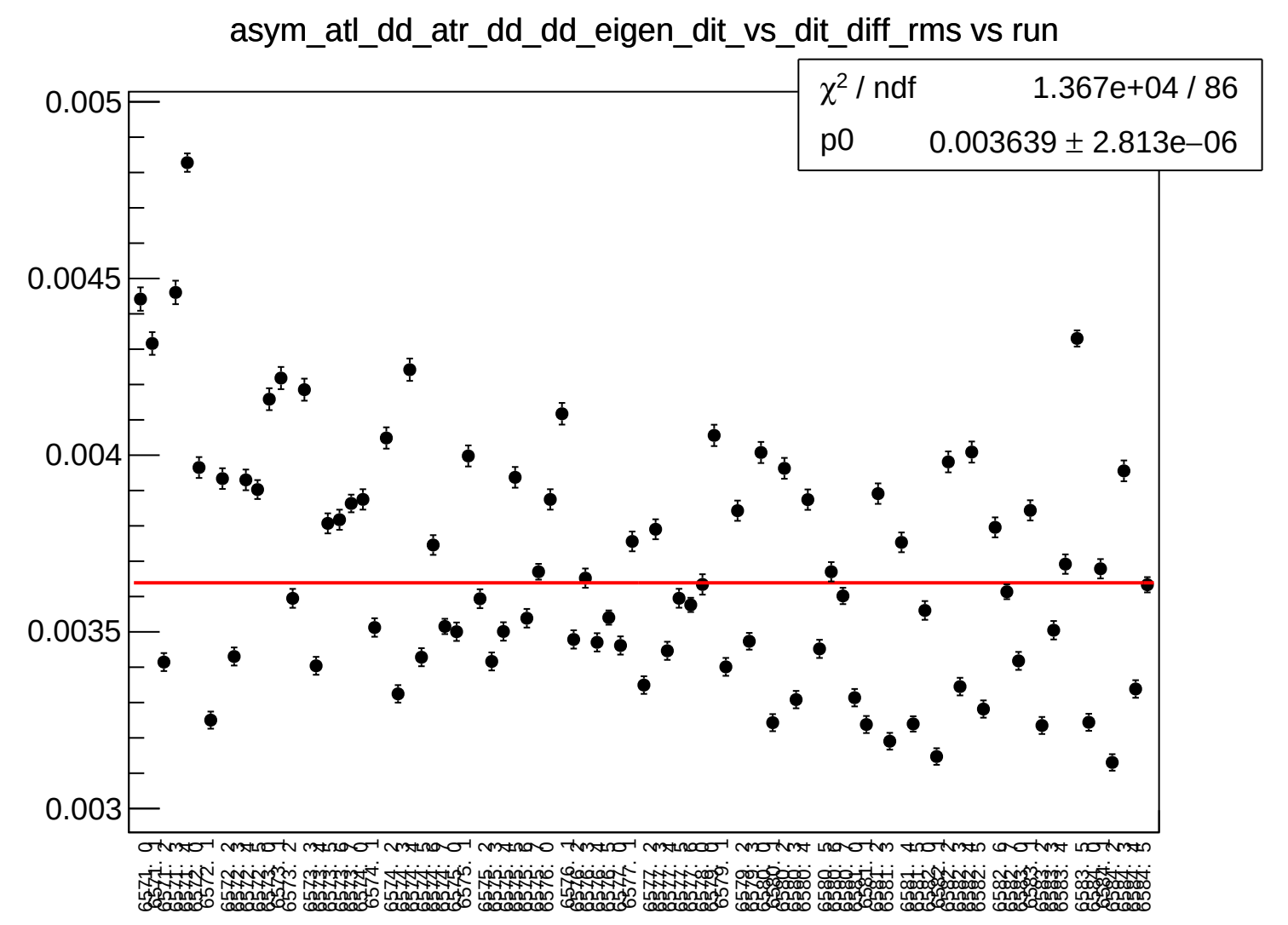


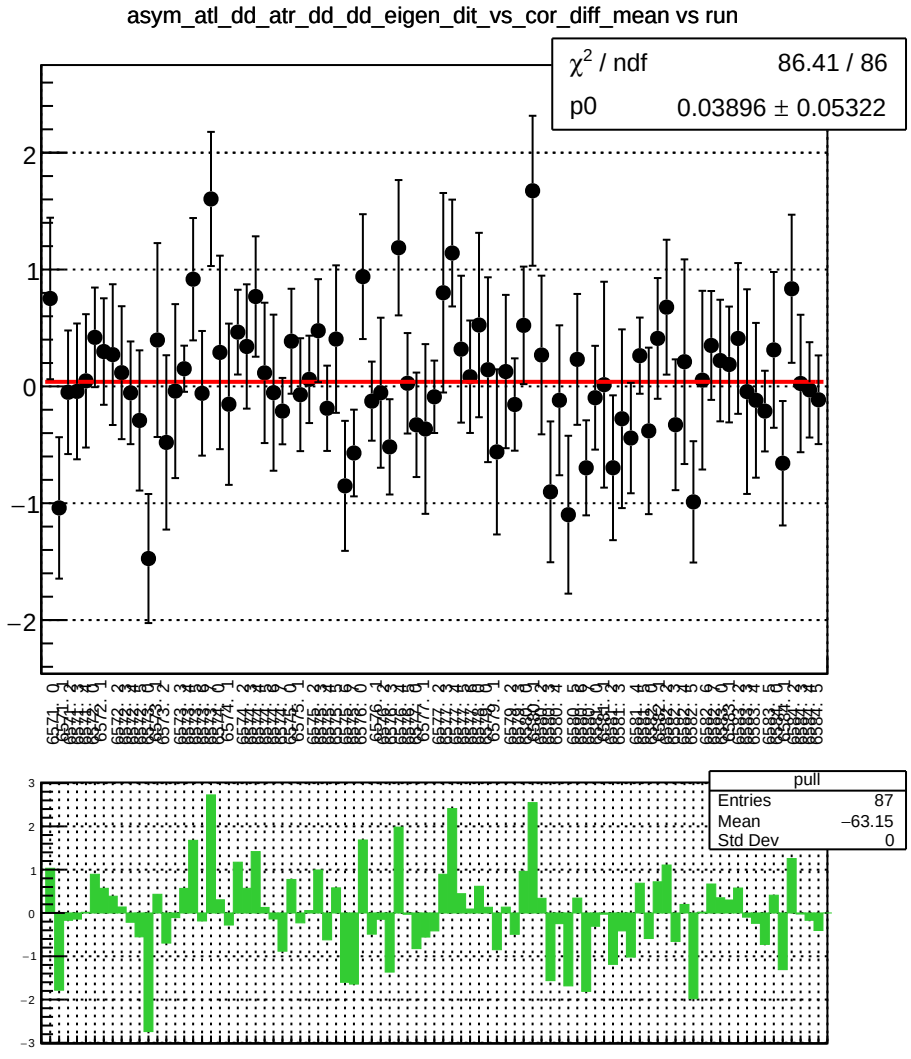


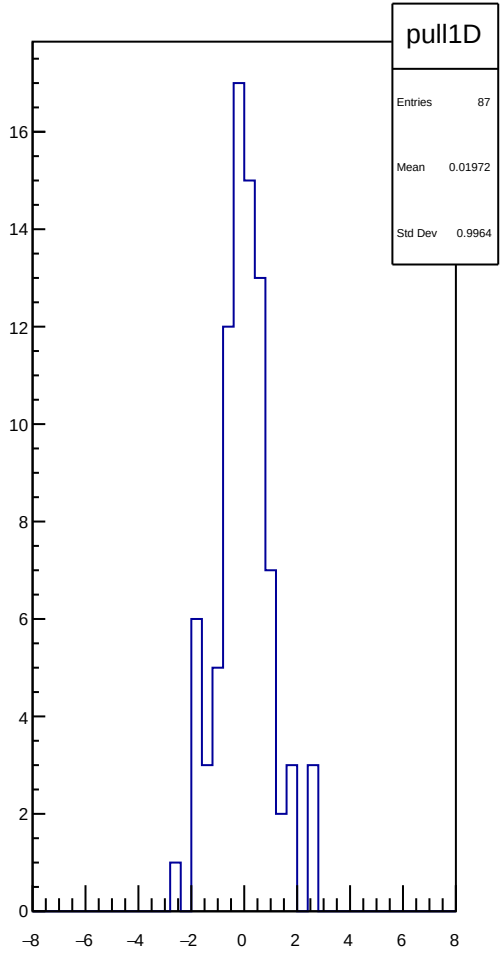

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 86
p0 46.79 ± 0.03763
90
80
70
60
50
40
30
20

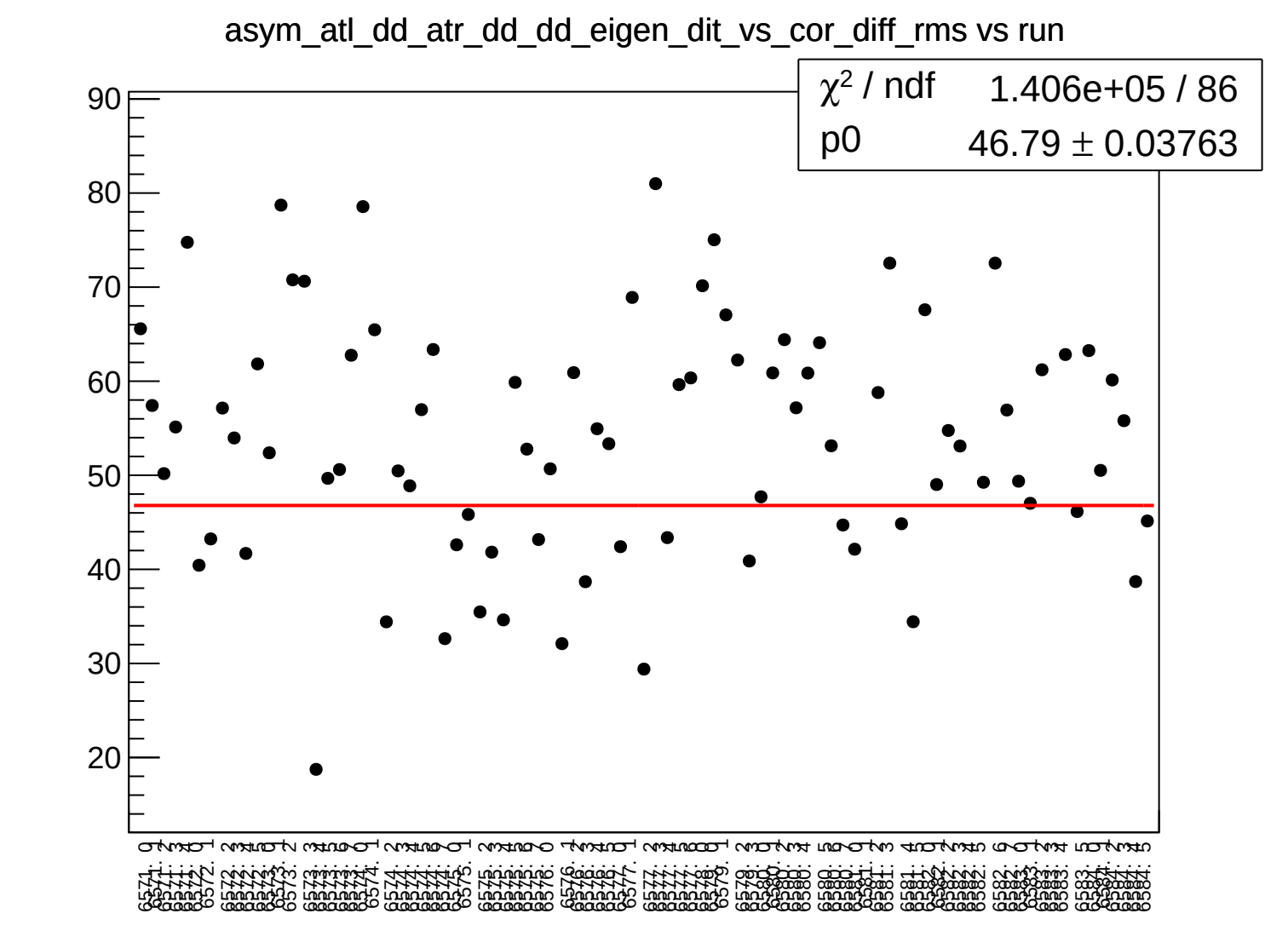

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.89 / 86
p0 2.804e−07 ± 3.978e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −391.1
Std Dev 0
2
1
0
−1
−2

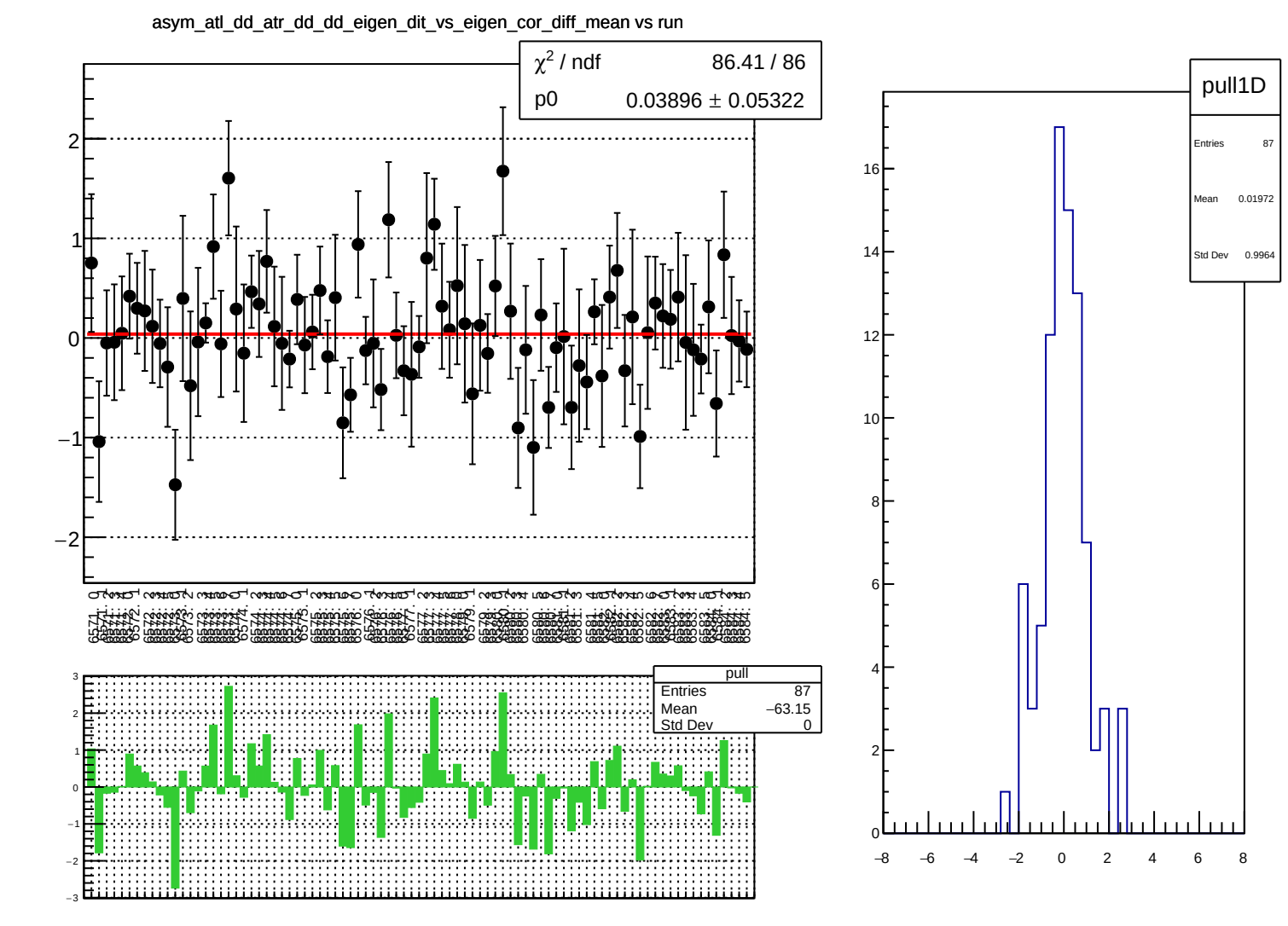

pull1D
Entries 87
Mean 0.006562
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

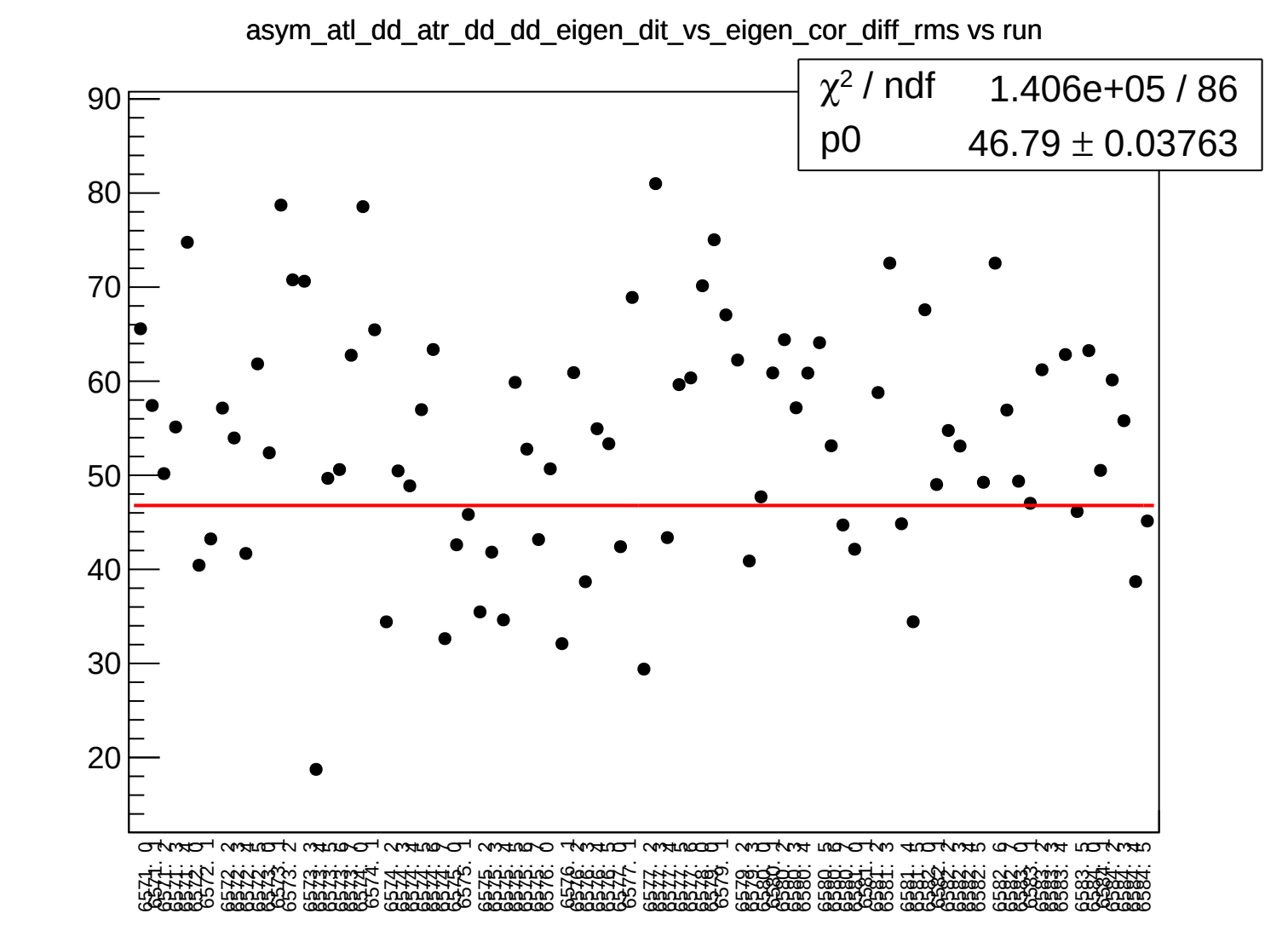

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.367e+04 / 86
p0 0.003639 ± 2.813e−06
0.005
0.0045
0.004
0.0035
0.003

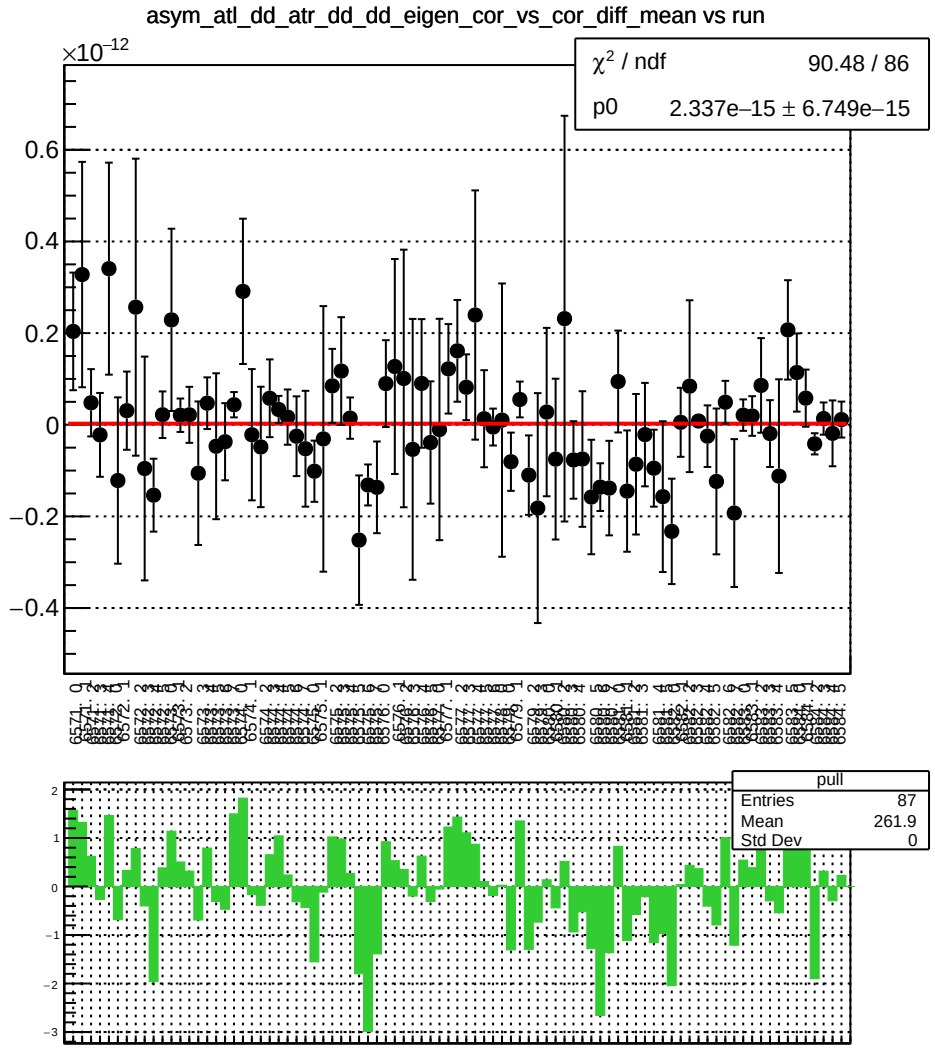

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.41 / 86
p0 0.03896 ± 0.05322
pull
Entries 87
Mean −63.15
Std Dev 0

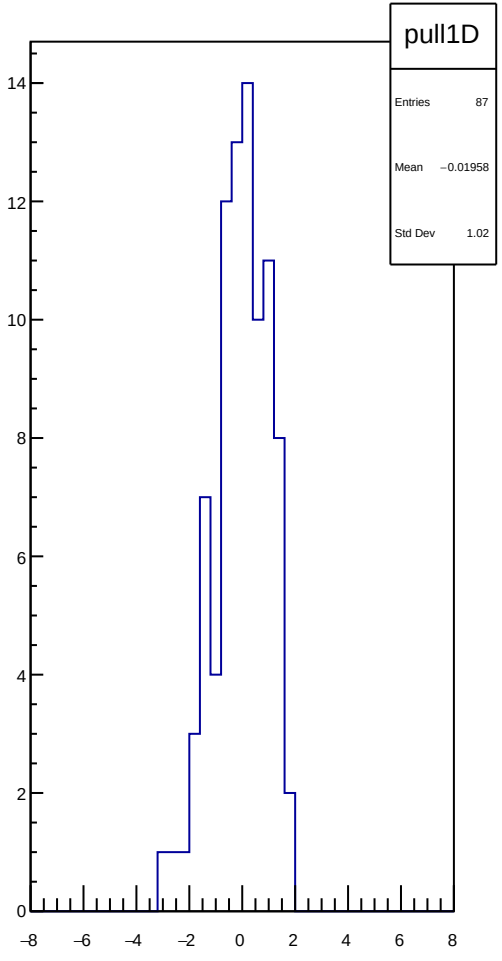

pull1D
Entries 87
Mean 0.01972
Std Dev 0.9964

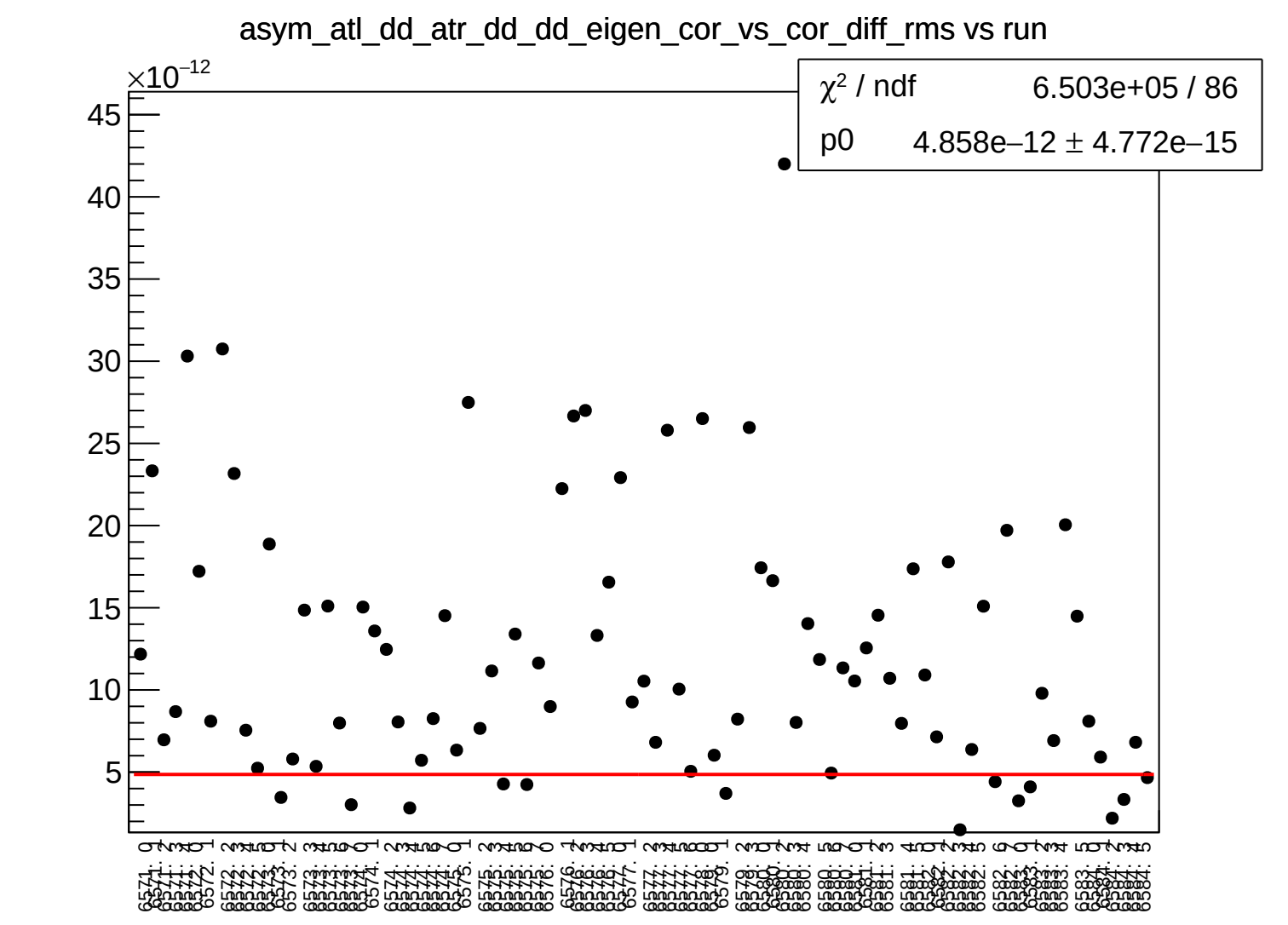

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 86
p0 46.79 ± 0.03763
90
80
70
60
50
40
30
20

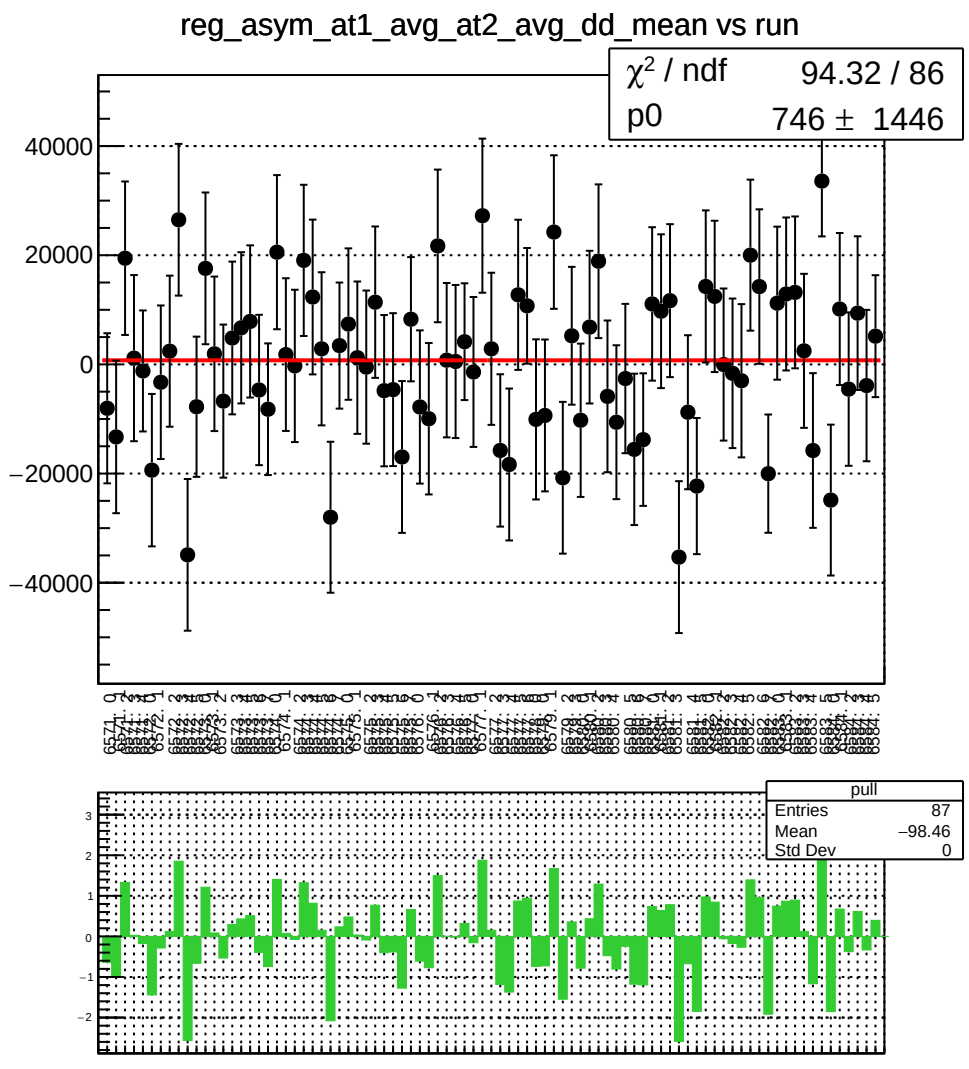

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.41 / 86
p0 0.03896 ± 0.05322
pull
Entries 87
Mean −63.15
Std Dev 0
pull1D
Entries 87
Mean 0.01972
Std Dev 0.9964

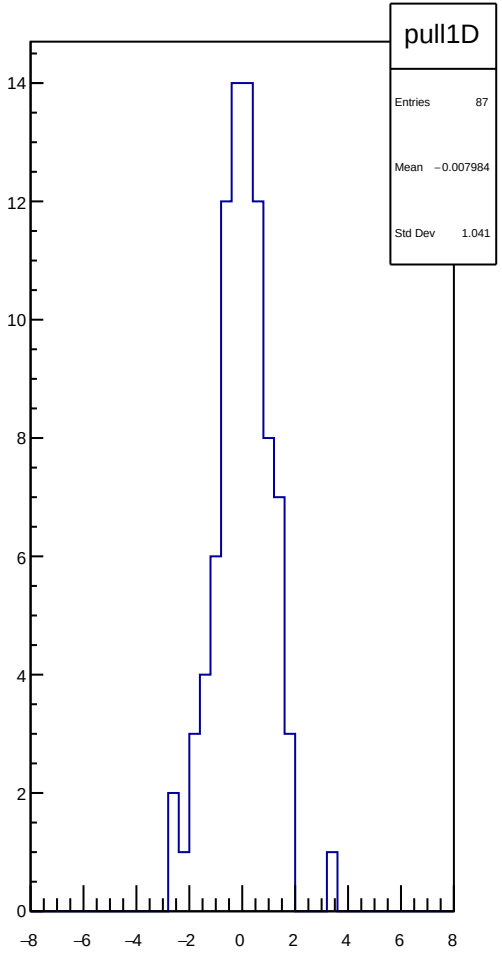

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 86
p0 46.79 ± 0.03763
90
80
70
60
50
40
30
20

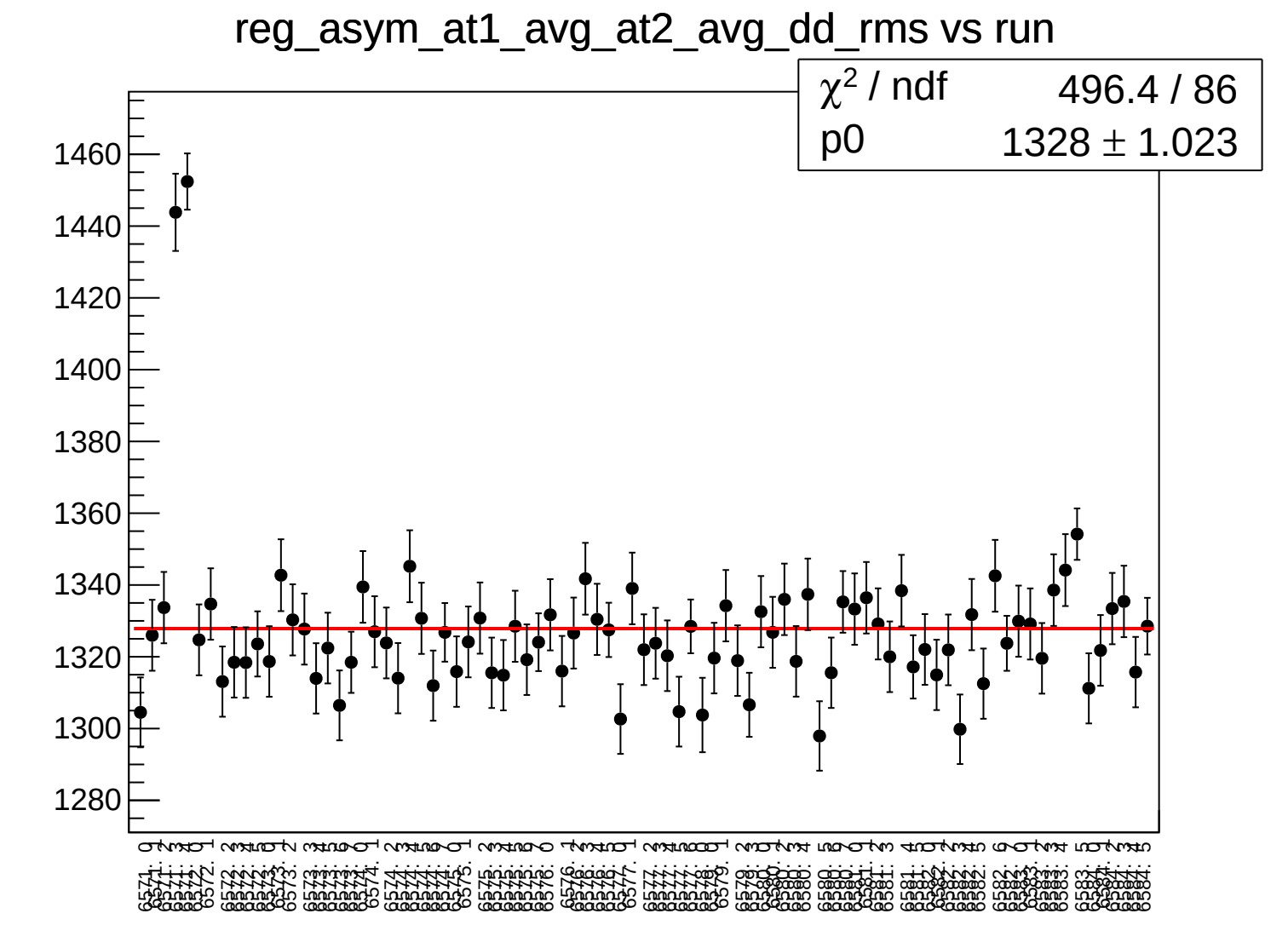

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 90.48 / 86
p0 2.337e−15 ± 6.749e−15
pull
Entries 87
Mean 261.9
Std Dev 0

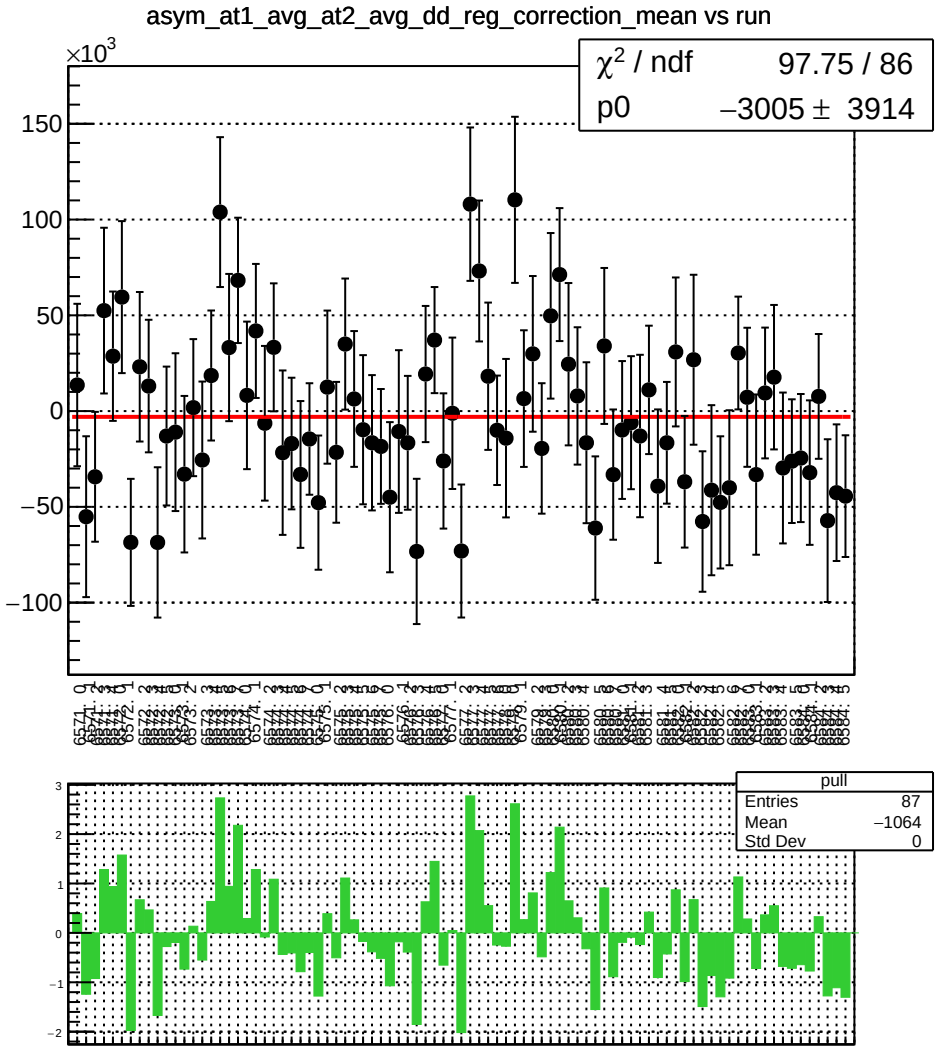

pull1D
Entries 87
Mean −0.01958
Std Dev 1.02

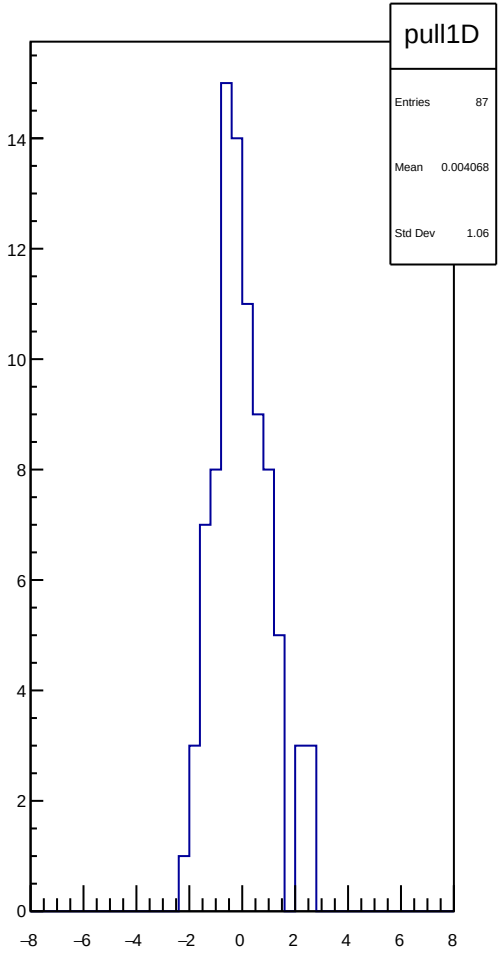

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.503e+05 / 86
p0 4.858e−12 ± 4.772e−15
45
40
35
30
25
20
15
10
5

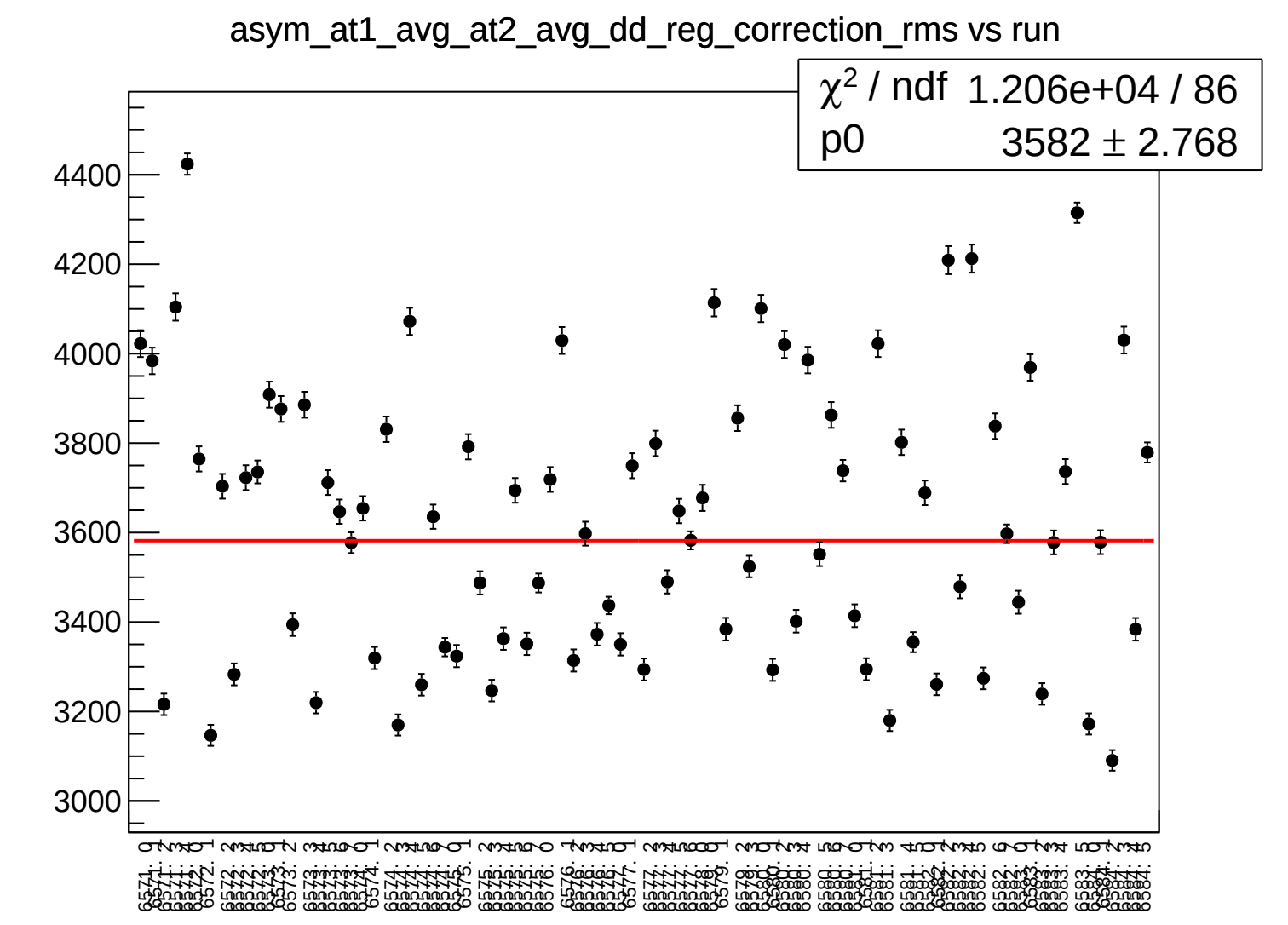

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 94.32 / 86
p0 746 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −98.46
Std Dev 0
3
2
1
0
−1
−2

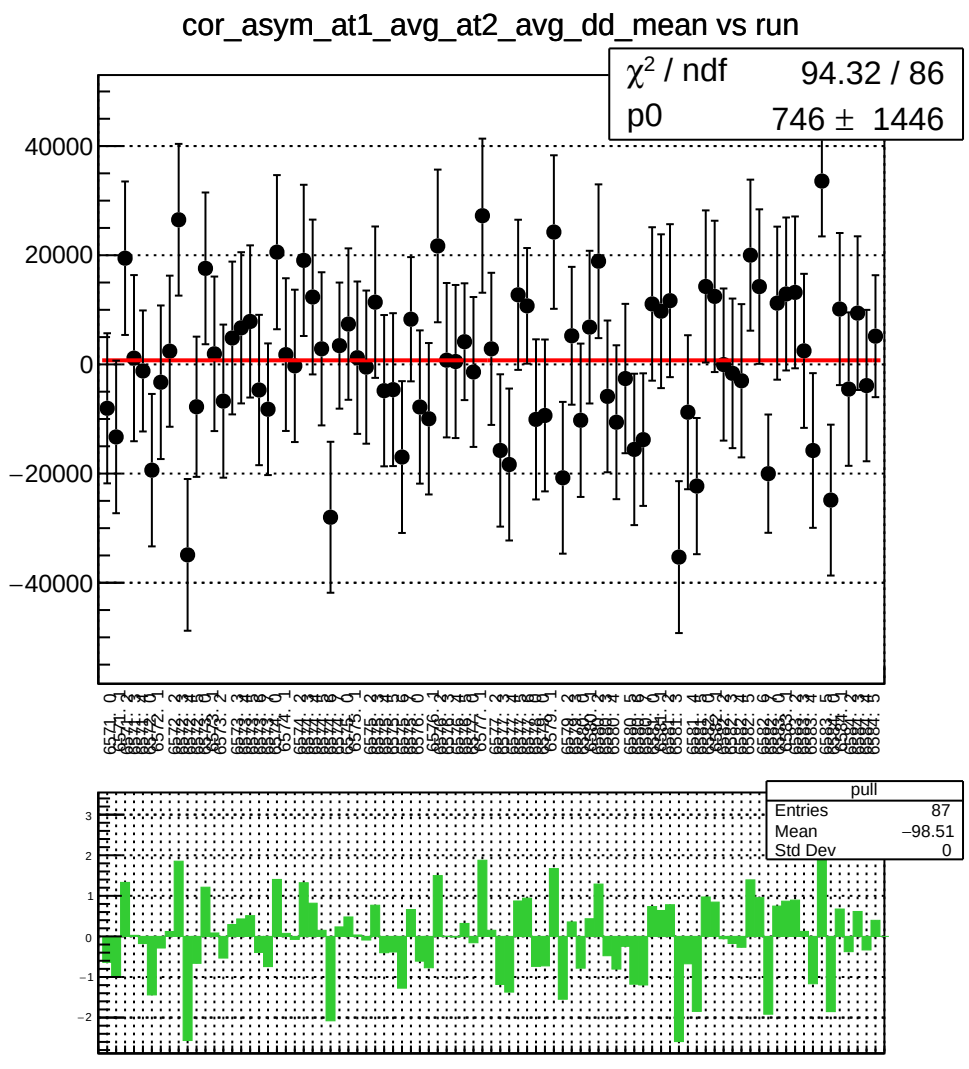

pull1D
Entries 87
Mean −0.007984
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

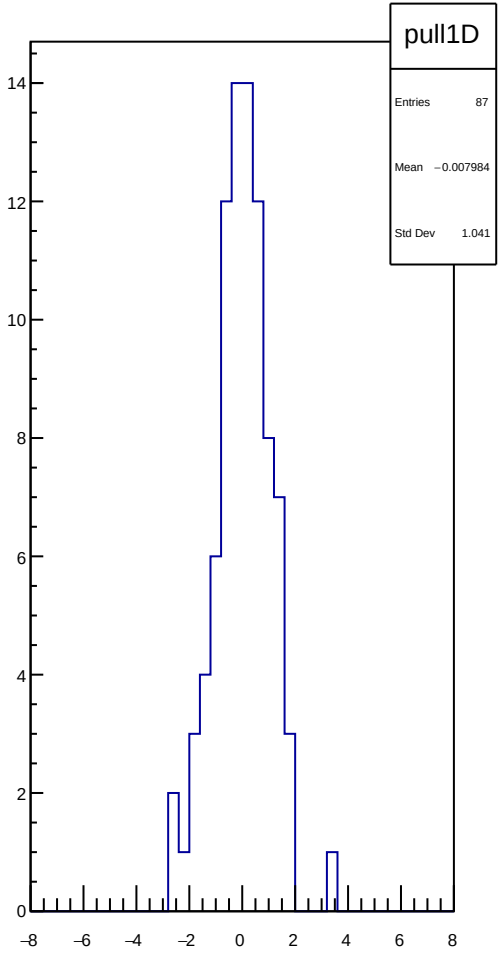

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 496.4 / 86
p0 1328 ± 1.023
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

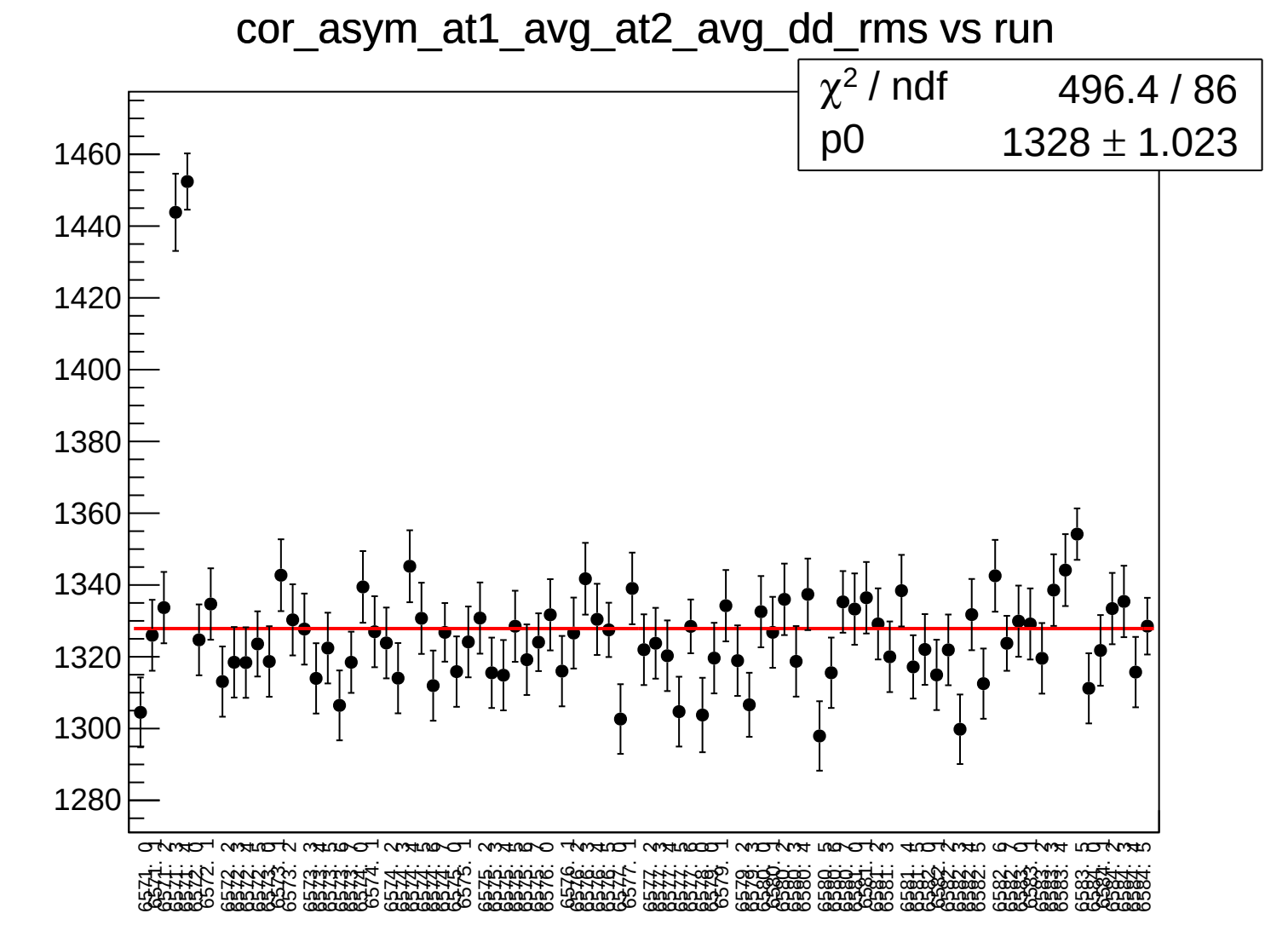

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.75 / 86
p0 −3005 ± 3914
150
100
50
0
−50
−100
pull
Entries 87
Mean −1064
Std Dev 0
3
2
1
0
−1
−2

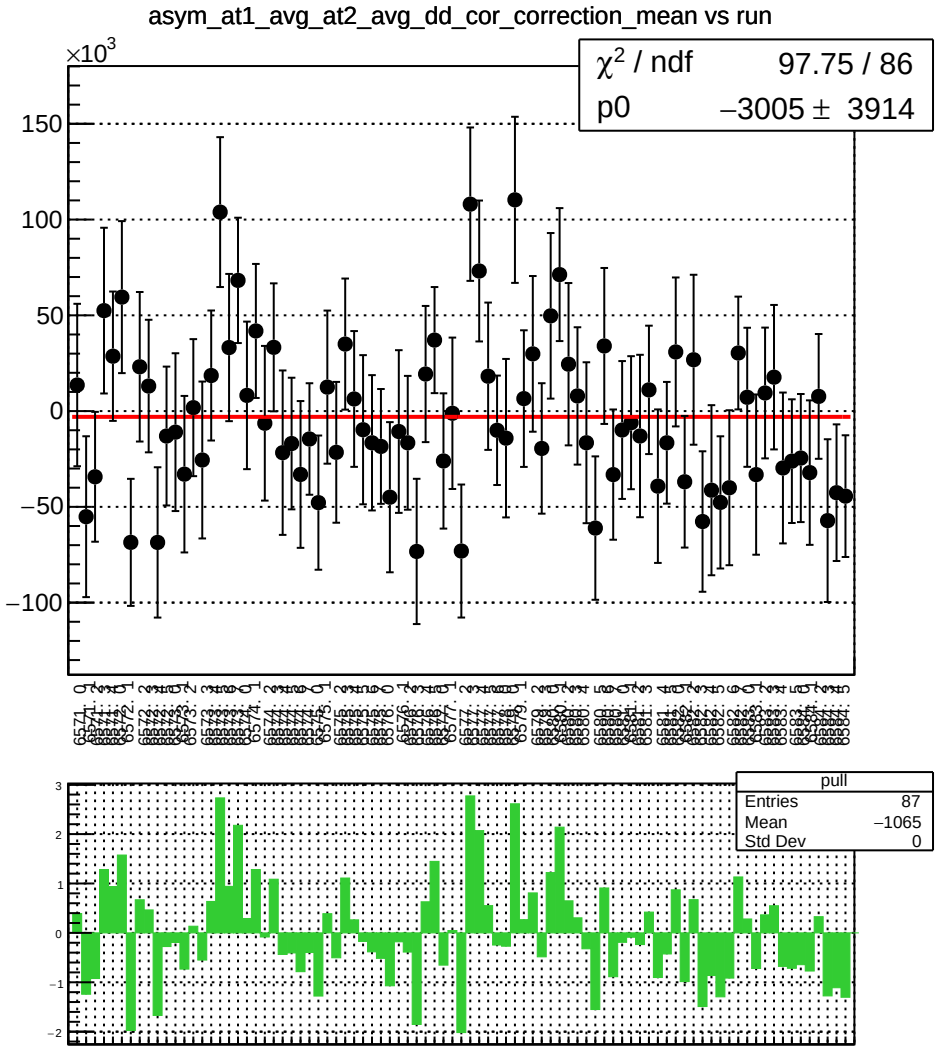

pull1D
Entries 87
Mean 0.004068
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

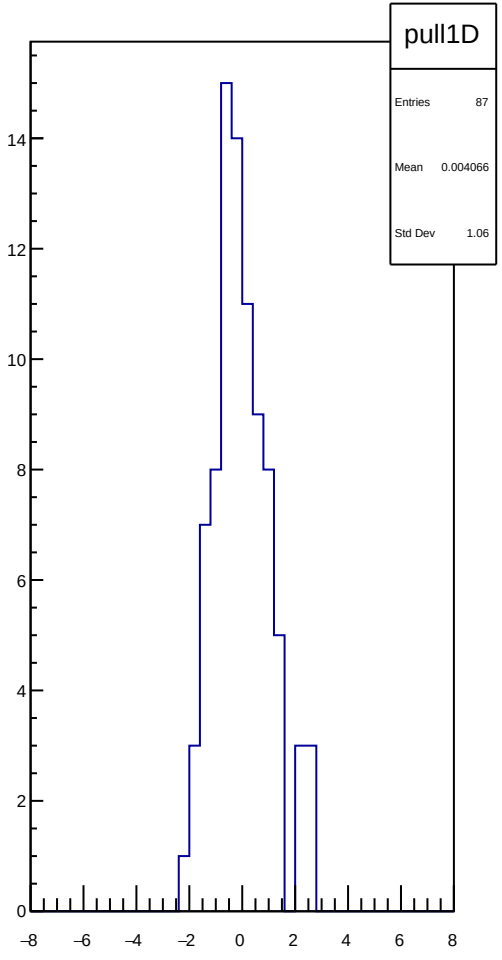

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.206e+04 / 86
p0 3582 ± 2.768
4400
4200
4000
3800
3600
3400
3200
3000

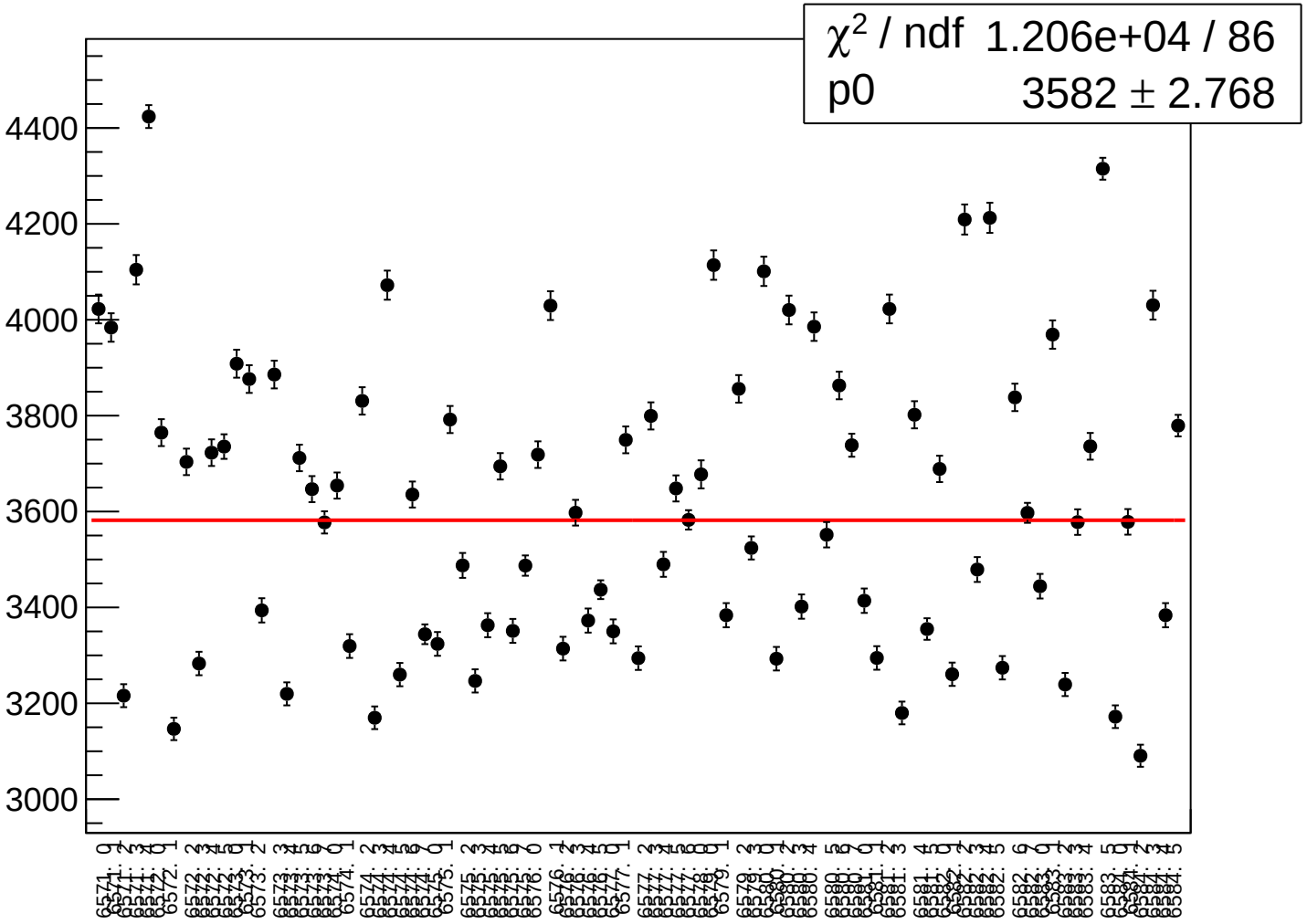

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 94.32 / 86
p0 746 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −98.51
Std Dev 0
3
2
1
0
−1
−2

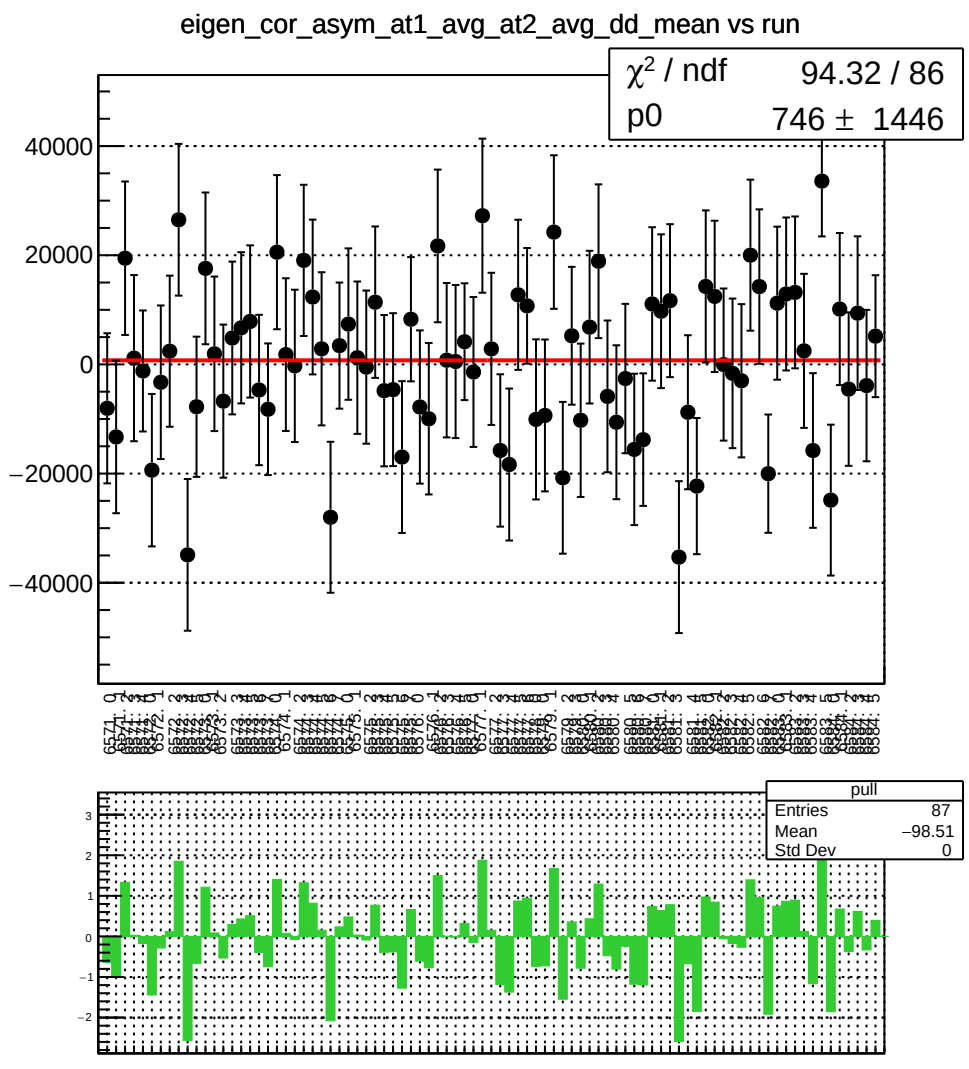

pull1D
Entries 87
Mean −0.007984
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

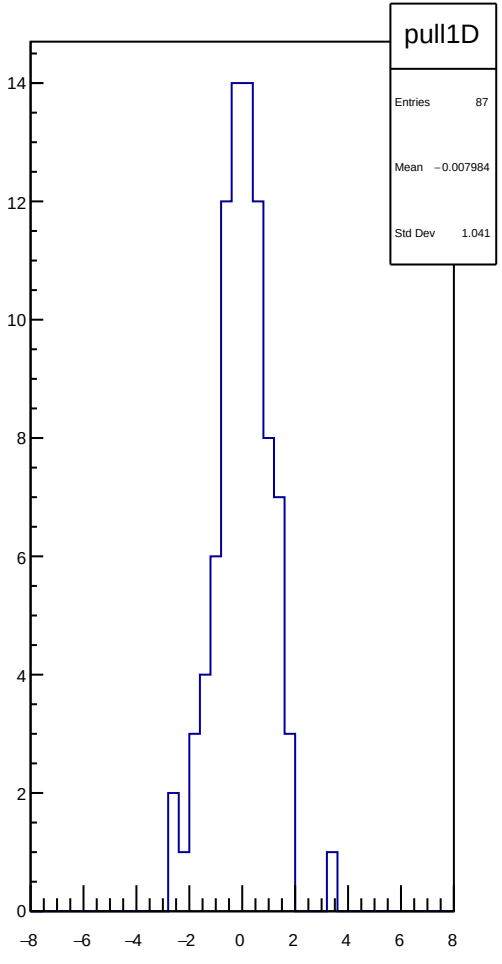

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 496.4 / 86
p0 1328 ± 1.023
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280


asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.75 / 86
p0 −3005 ± 3914
150
100
50
0
−50
−100
pull
Entries 87
Mean −1065
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 87
Mean 0.004066
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.206e+04 / 86
p0 3582 ± 2.768
4400
4200
4000
3800
3600
3400
3200
3000


eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 94.32 / 86
p0 746 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −98.51
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 87
Mean −0.007984
Std Dev 1.041
14
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10
8
6
4
2
0
−8
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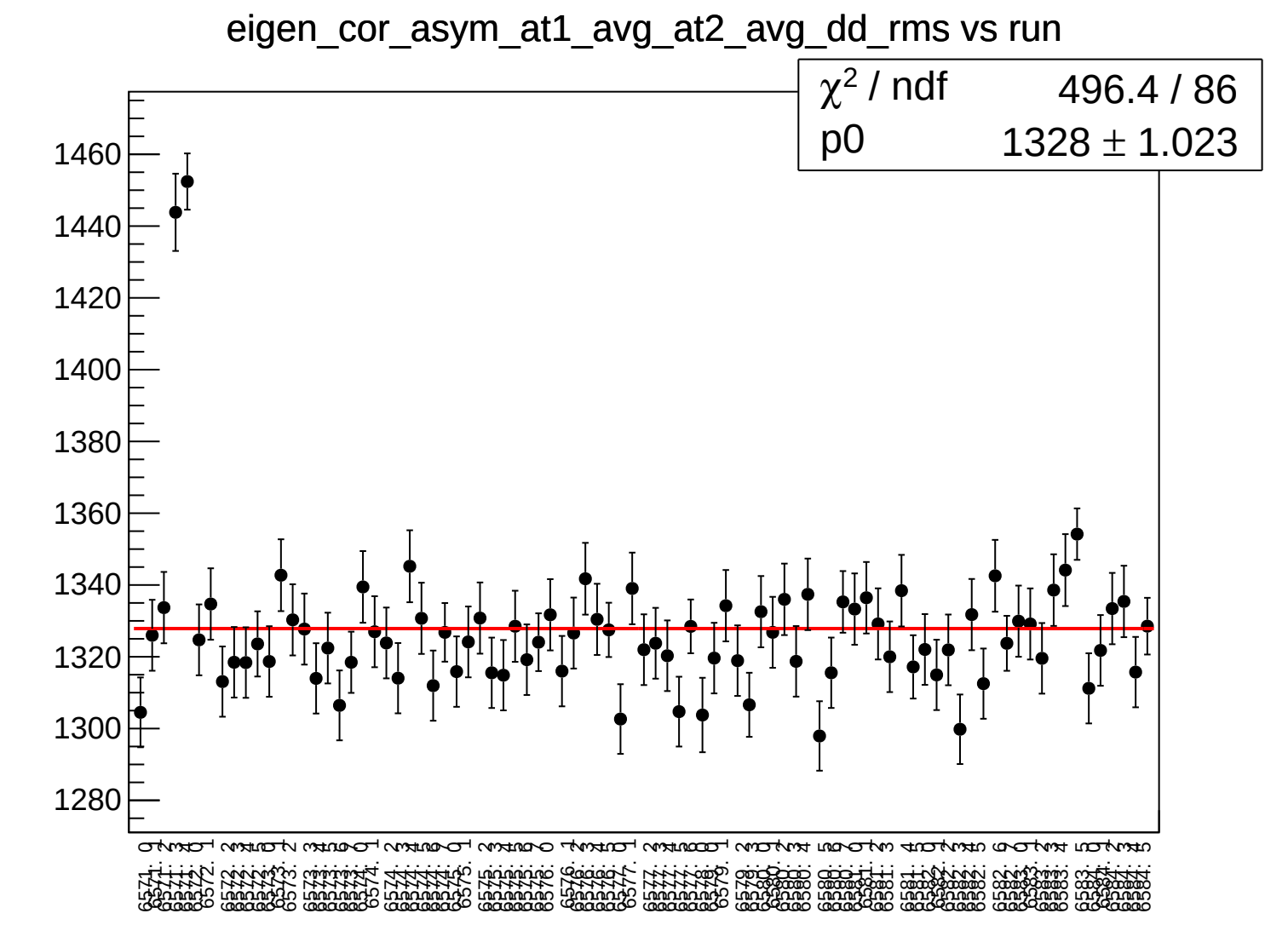
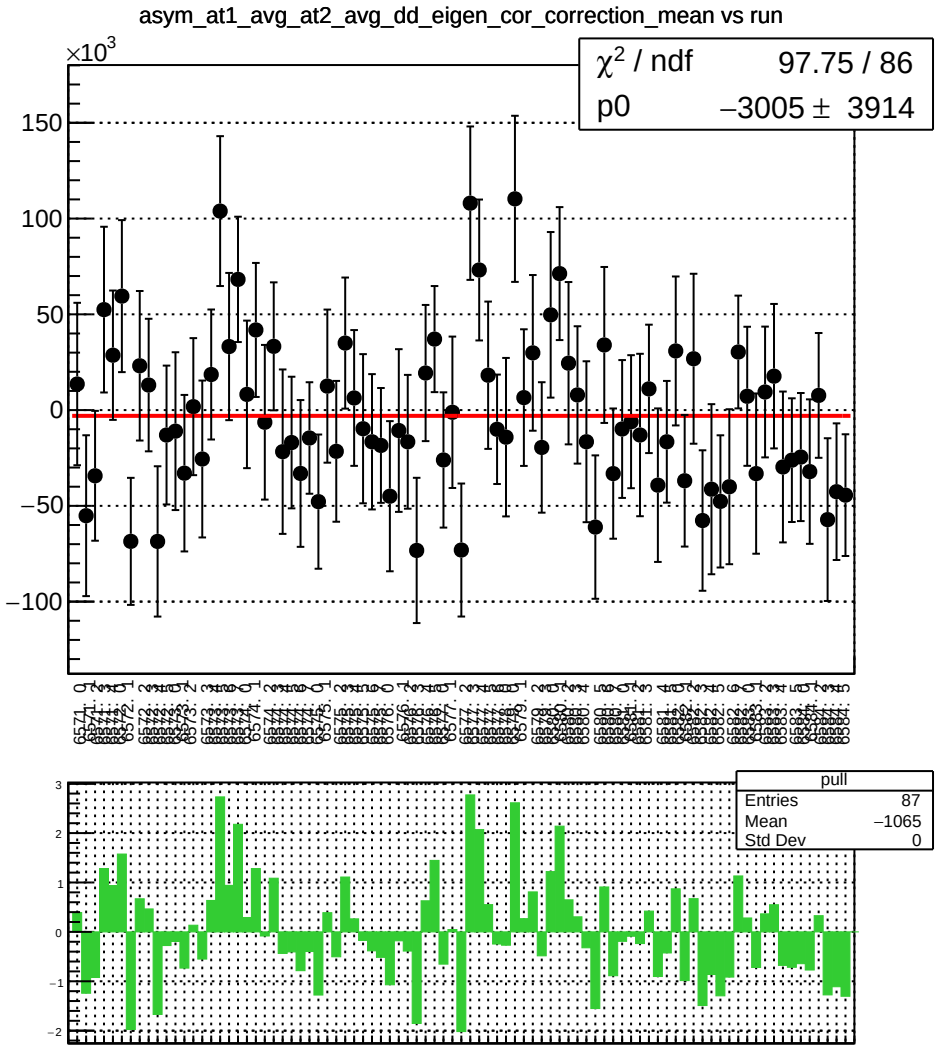
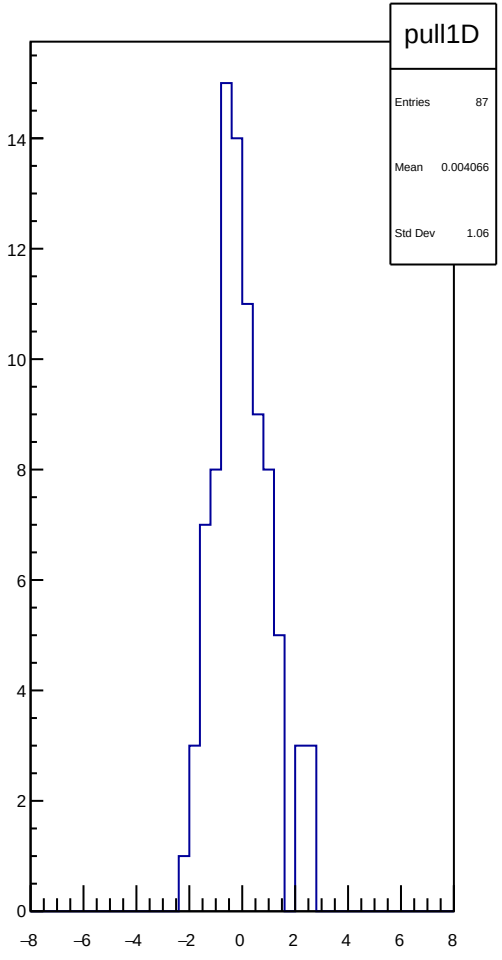
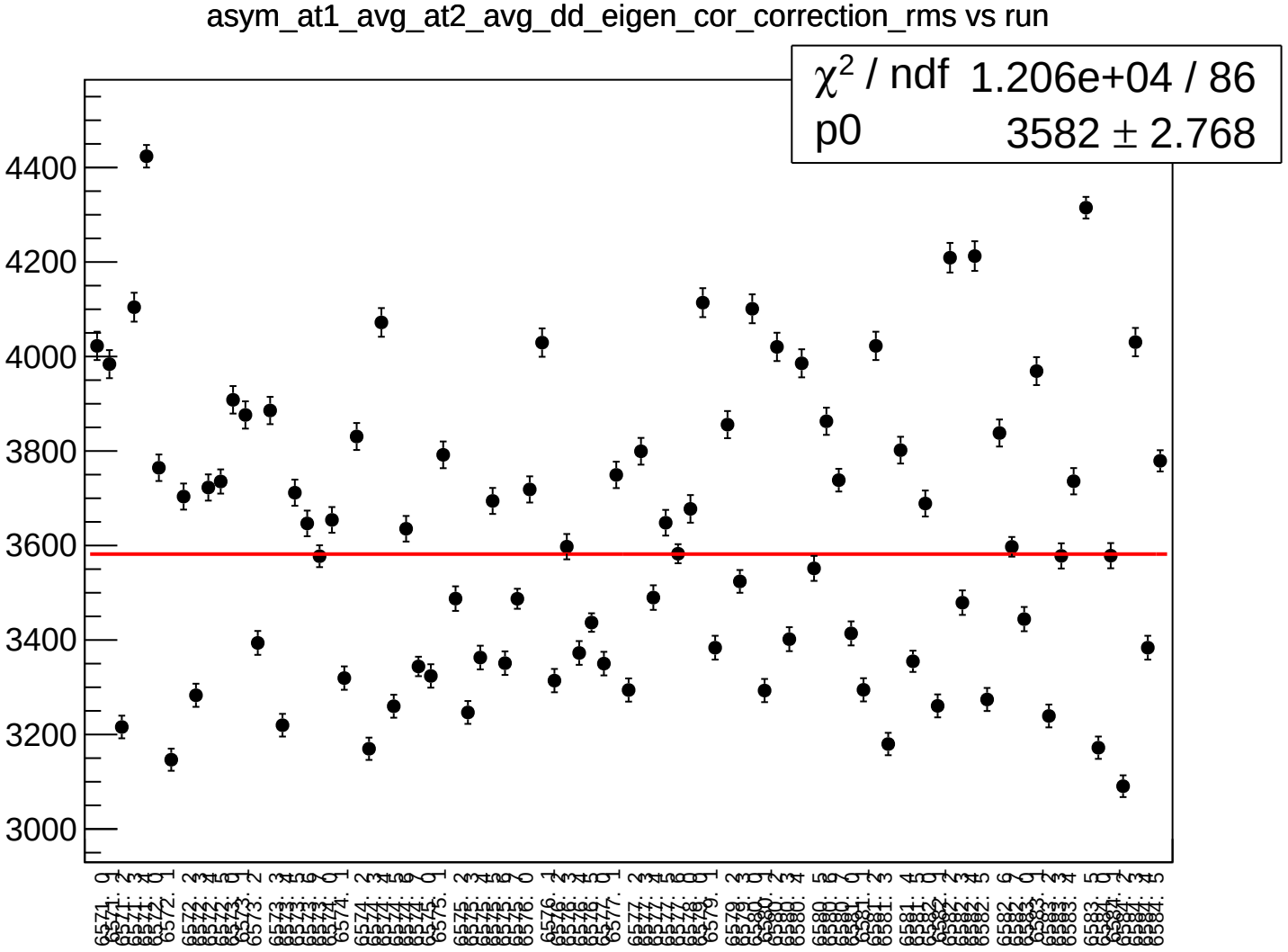
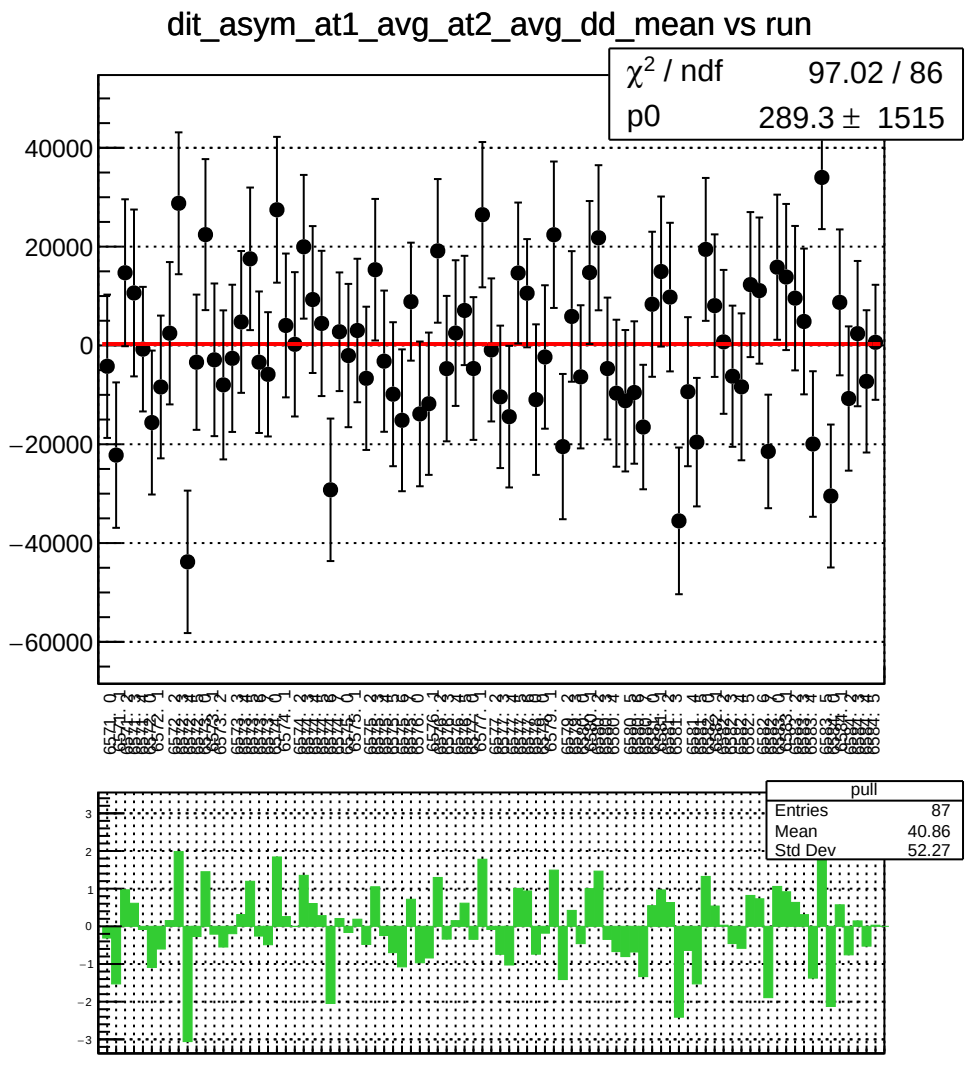
−4
−2
0
2
4
6
8

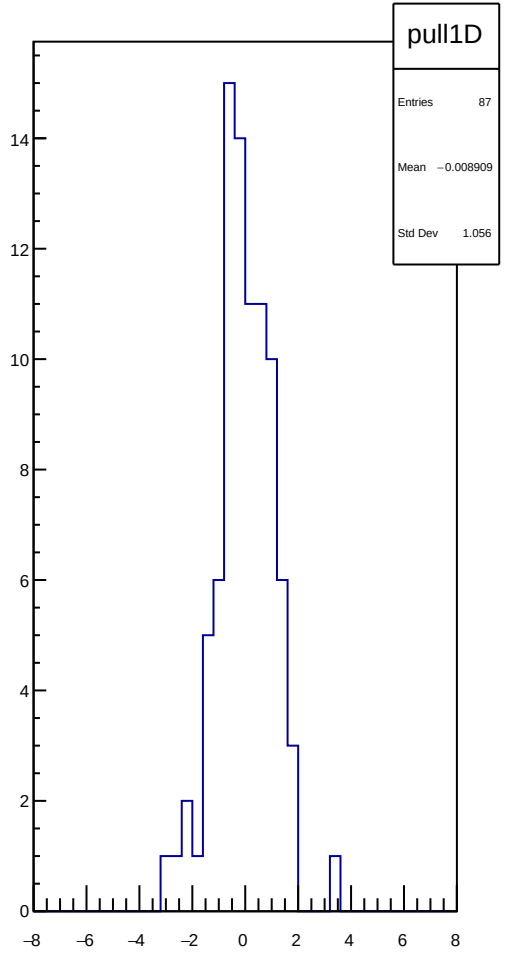

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 496.4 / 86
p0 1328 ± 1.023
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

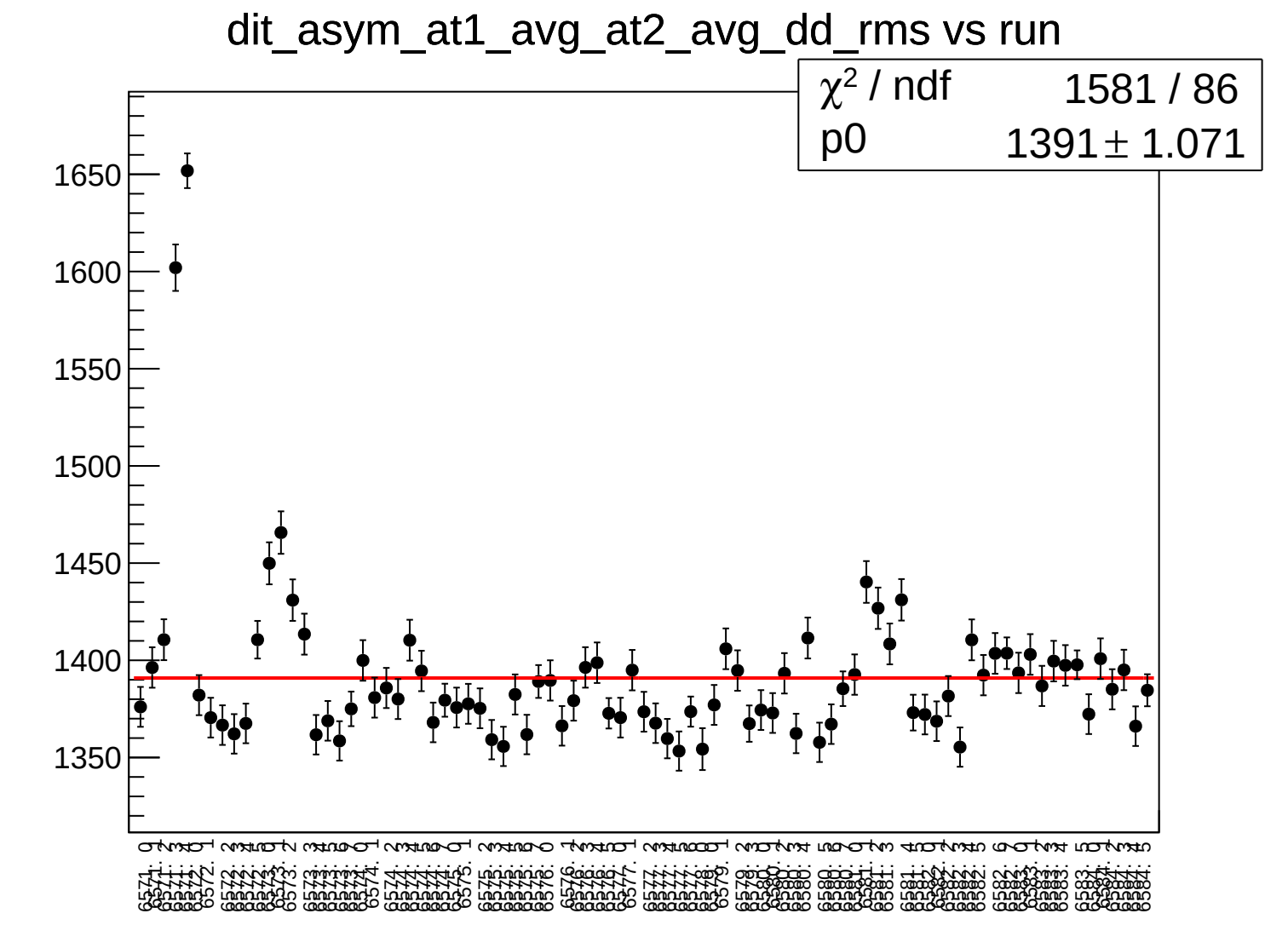

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.75 / 86
p0 −3005 ± 3914
150
100
50
0
−50
−100
pull
Entries 87
Mean −1065
Std Dev 0
3
2
1
0
−1
−2

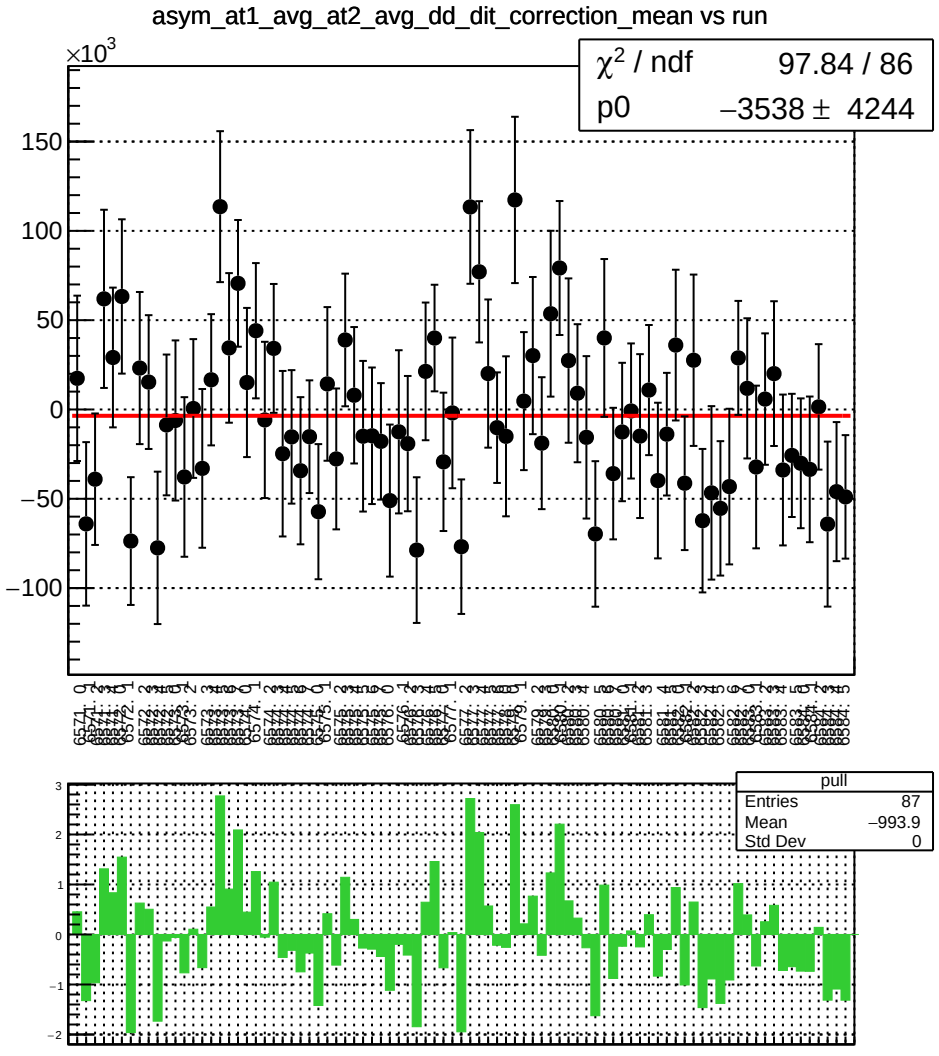

pull1D
Entries 87
Mean 0.004066
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

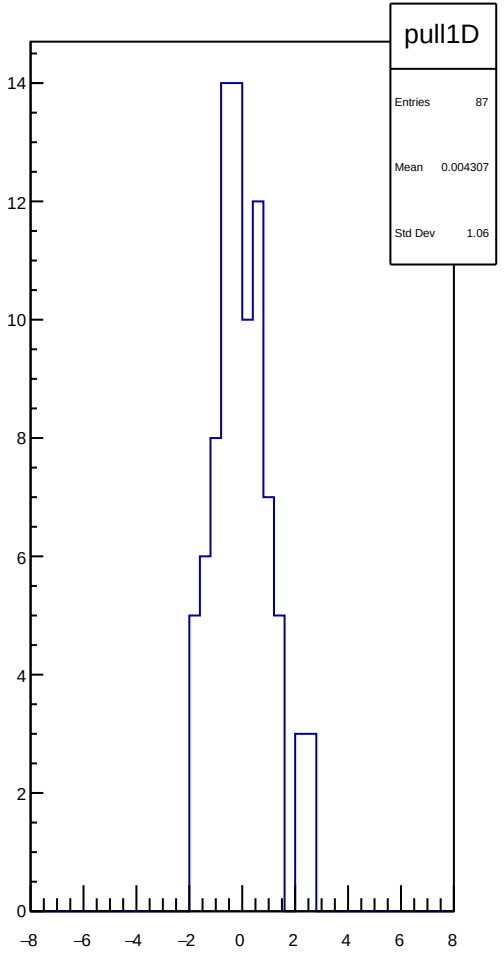

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.206e+04 / 86
p0 3582 ± 2.768
4400
4200
4000
3800
3600
3400
3200
3000

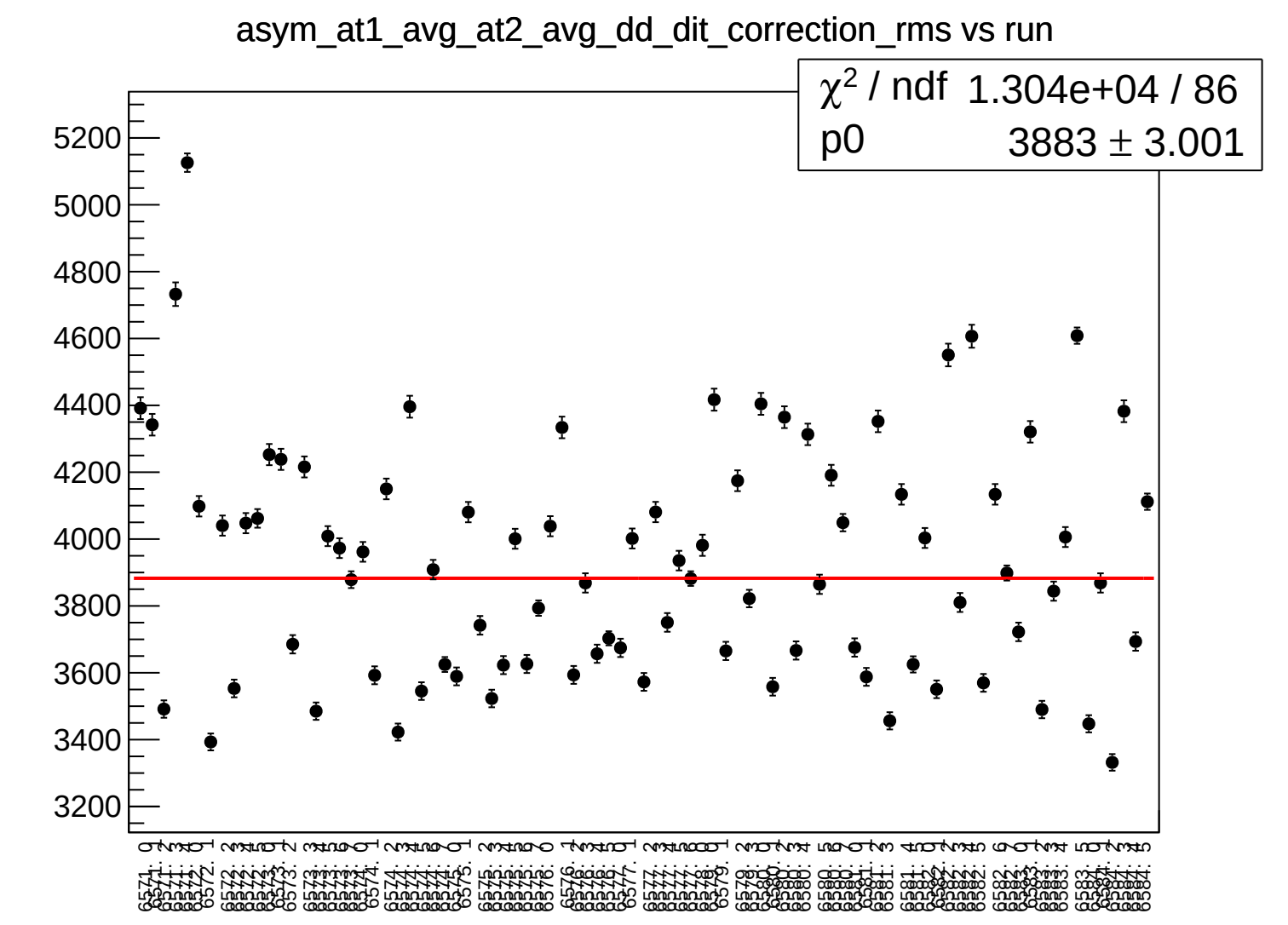

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 97.02 / 86
p0 289.3 ± 1515
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 40.86
Std Dev 52.27
3
2
1
0
−1
−2
−3

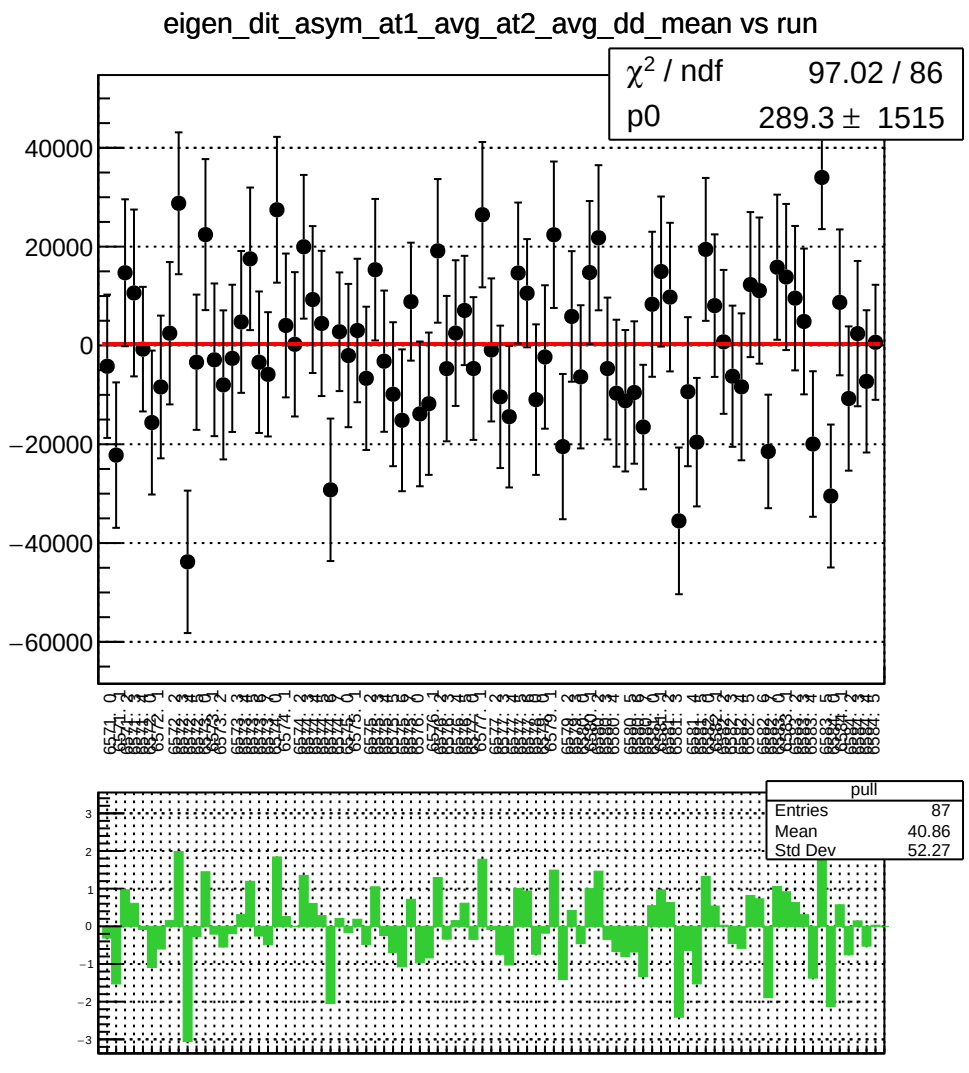

pull1D
Entries 87
Mean −0.008909
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

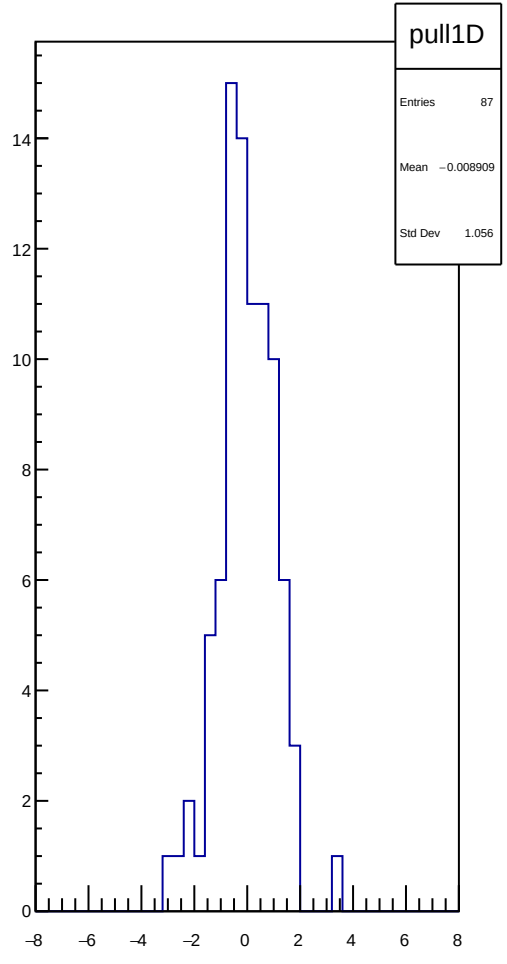

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1581 / 86
p0 1391 ± 1.071
1650
1600
1550
1500
1450
1400
1350

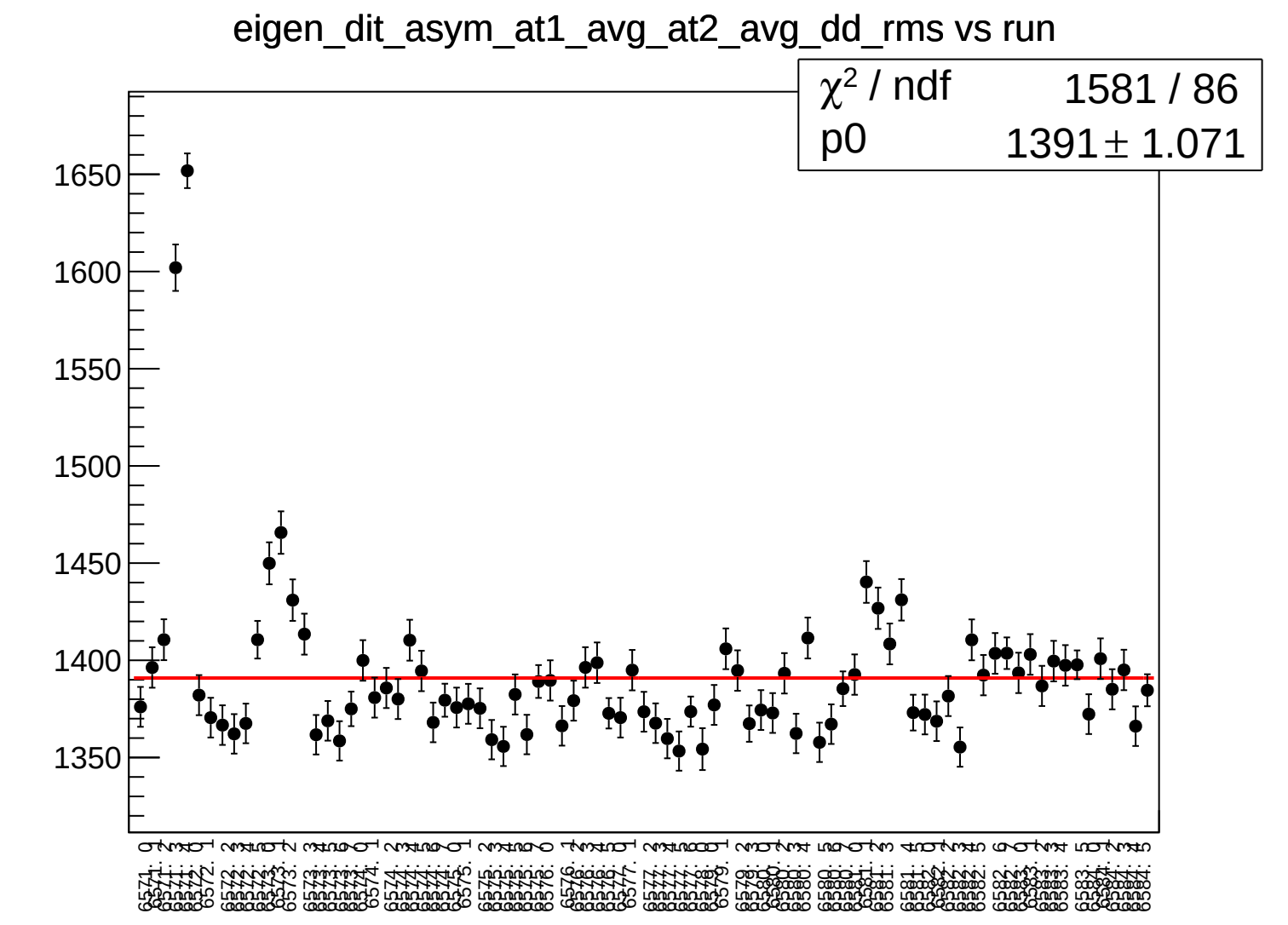

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.84 / 86
p0 −3538 ± 4244
150
100
50
0
−50
−100
pull
Entries 87
Mean −993.9
Std Dev 0
3
2
1
0
−1
−2

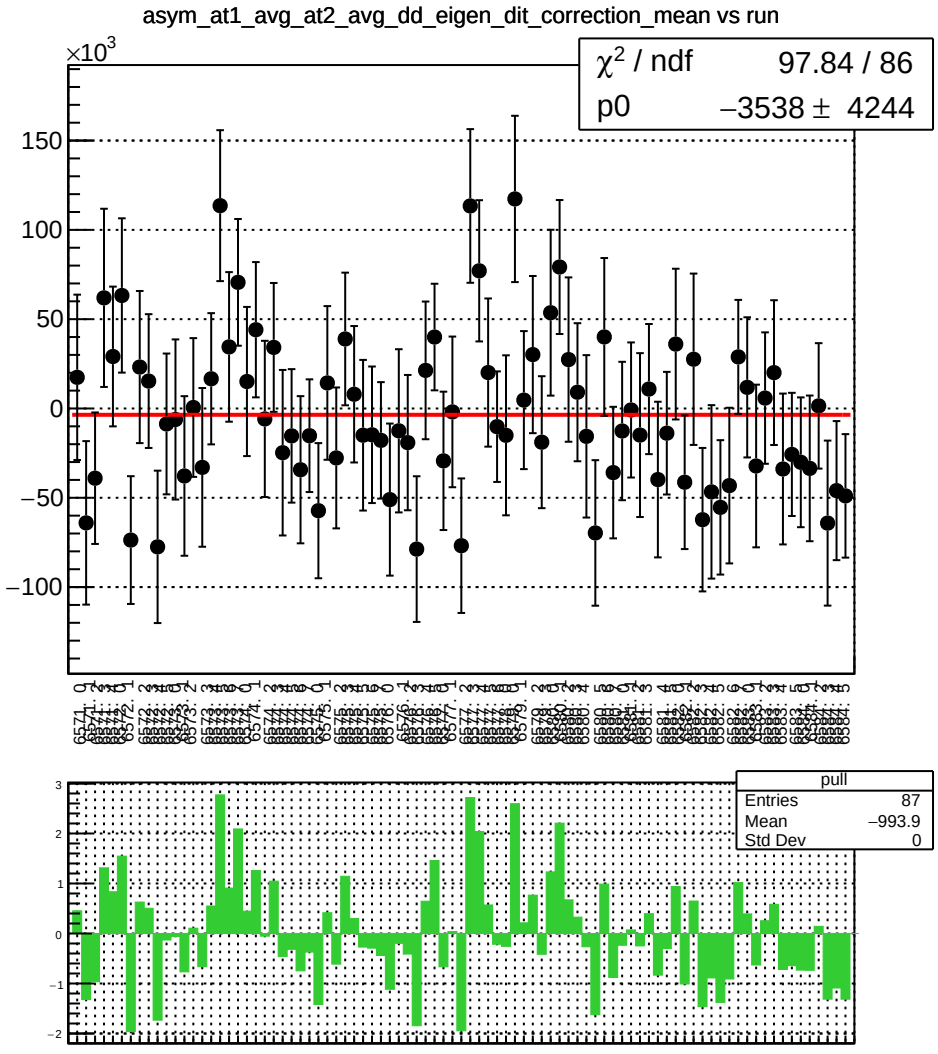

pull1D
Entries 87
Mean 0.004307
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

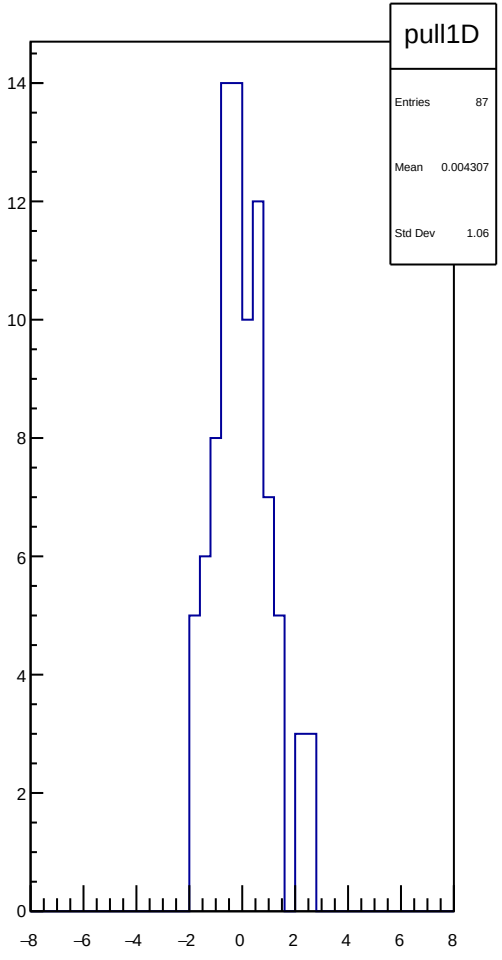

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.304e+04 / 86
p0 3883 ± 3.001
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

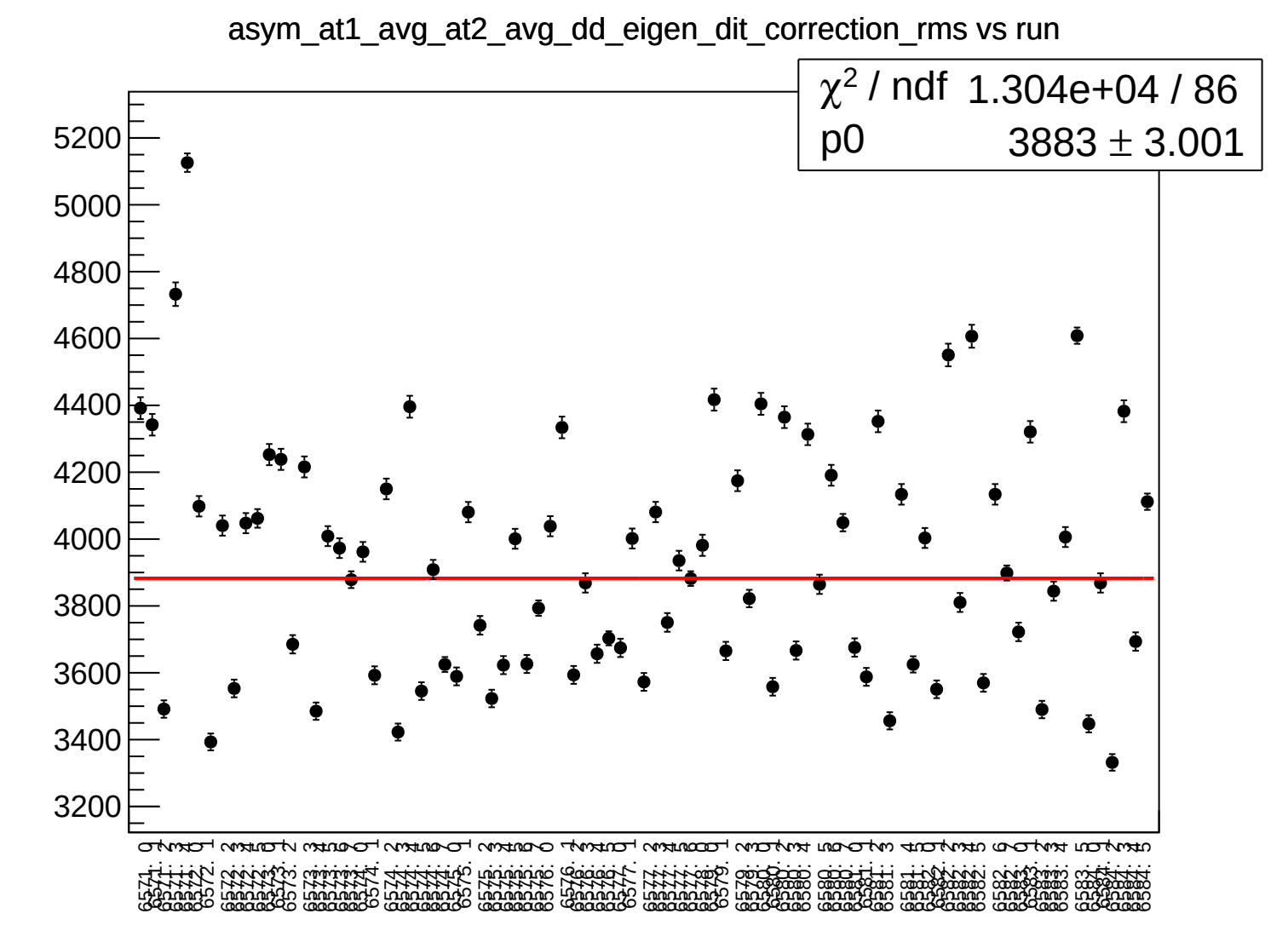

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 97.02 / 86
p0 289.3 ± 1515
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 40.86
Std Dev 52.27
3
2
1
0
−1
−2
−3

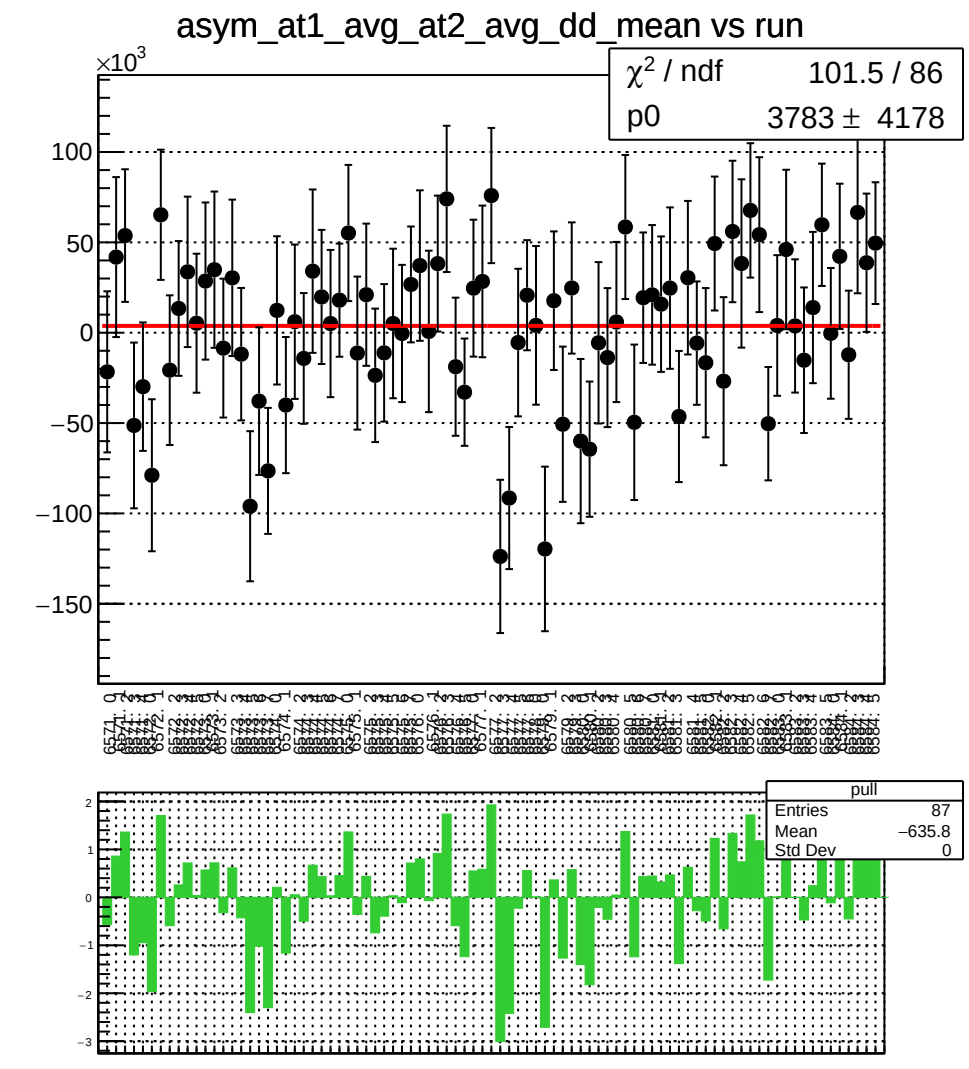

pull1D
Entries 87
Mean −0.008909
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

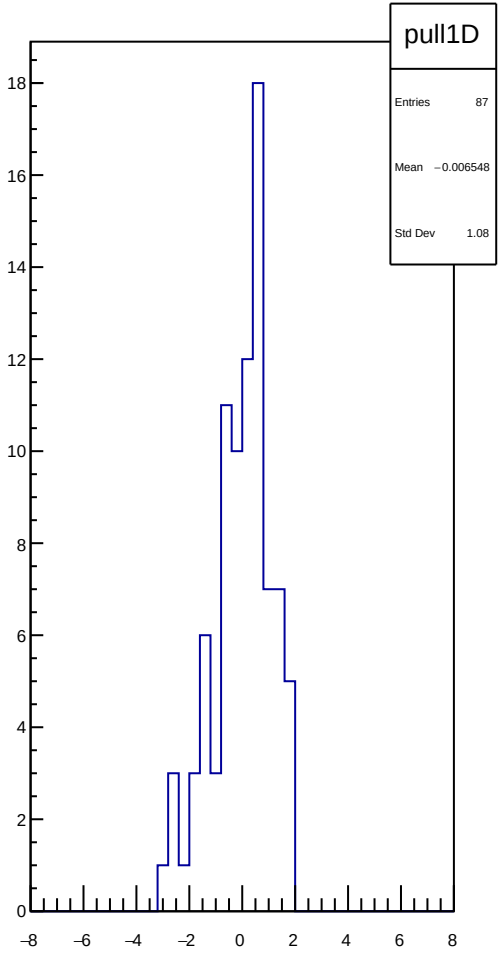

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1581 / 86
p0 1391 ± 1.071
1650
1600
1550
1500
1450
1400
1350

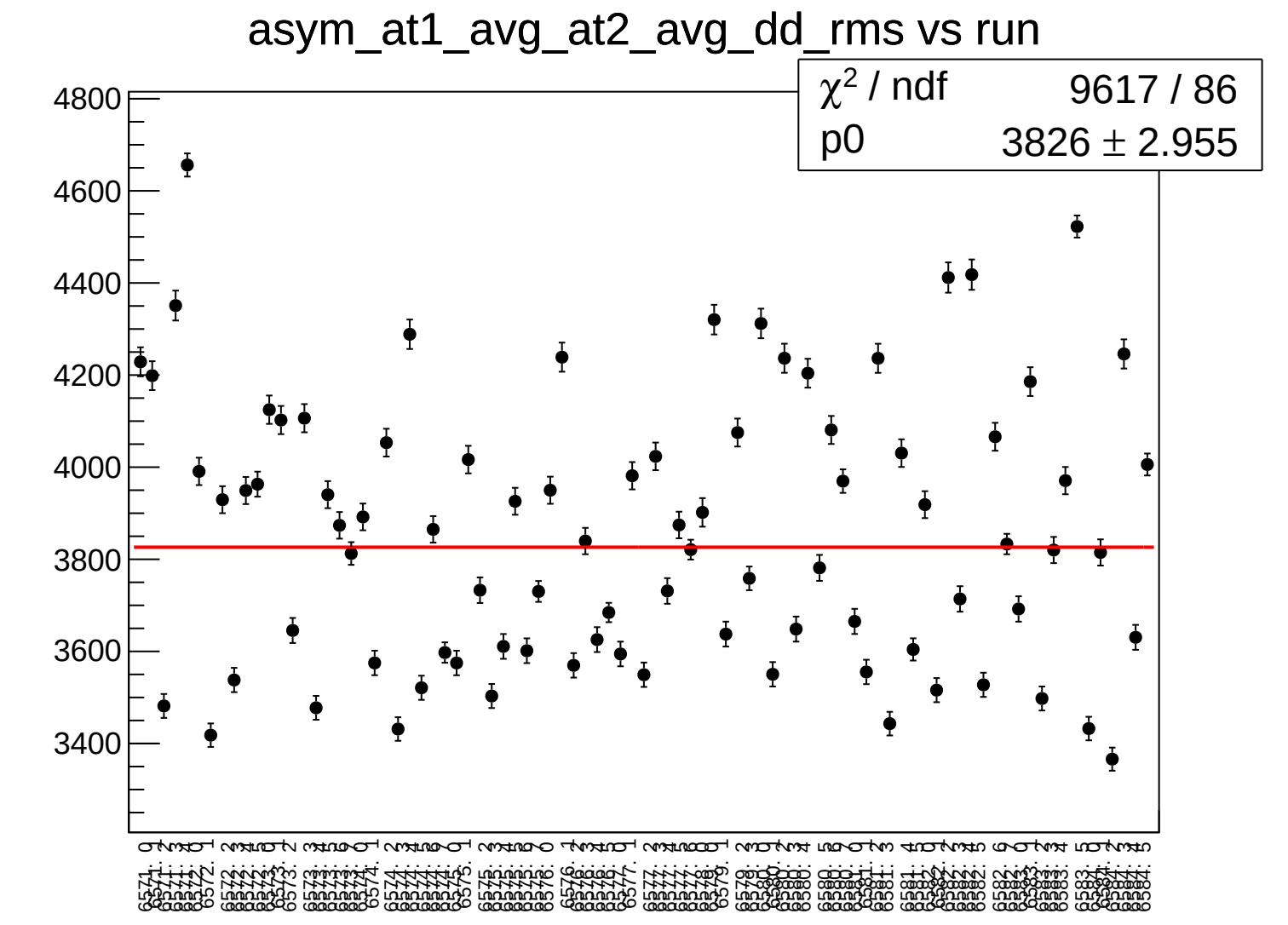

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.84 / 86
p0 −3538 ± 4244
150
100
50
0
−50
−100
pull
Entries 87
Mean −993.9
Std Dev 0
3
2
1
0
−1
−2

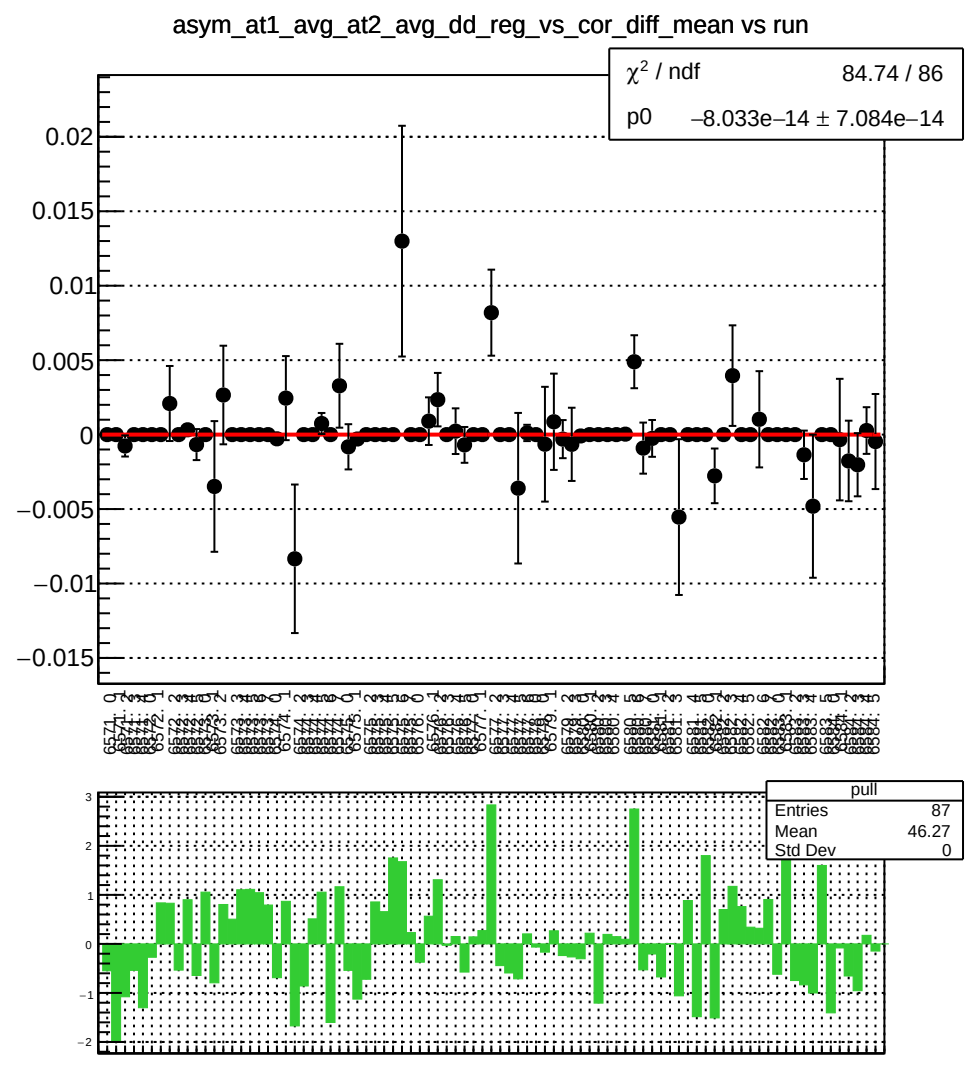

pull1D
Entries 87
Mean 0.004307
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

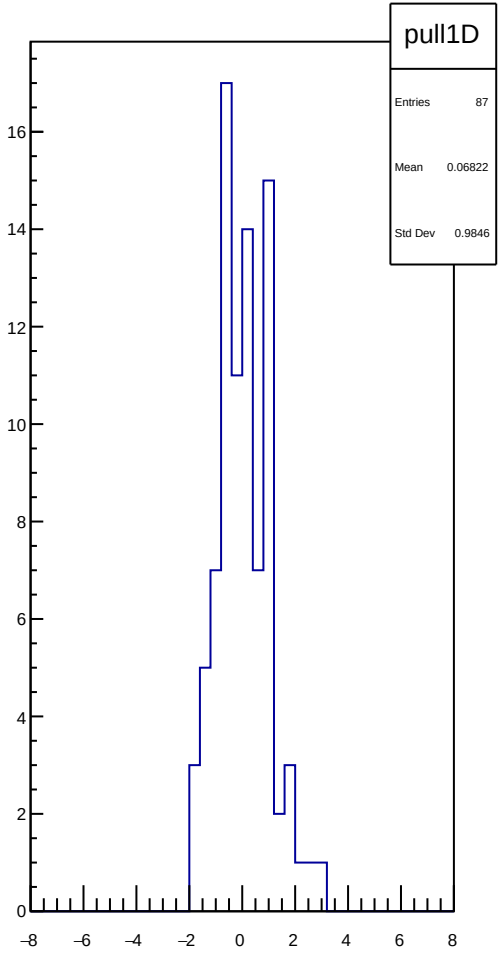

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.304e+04 / 86
p0 3883 ± 3.001
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

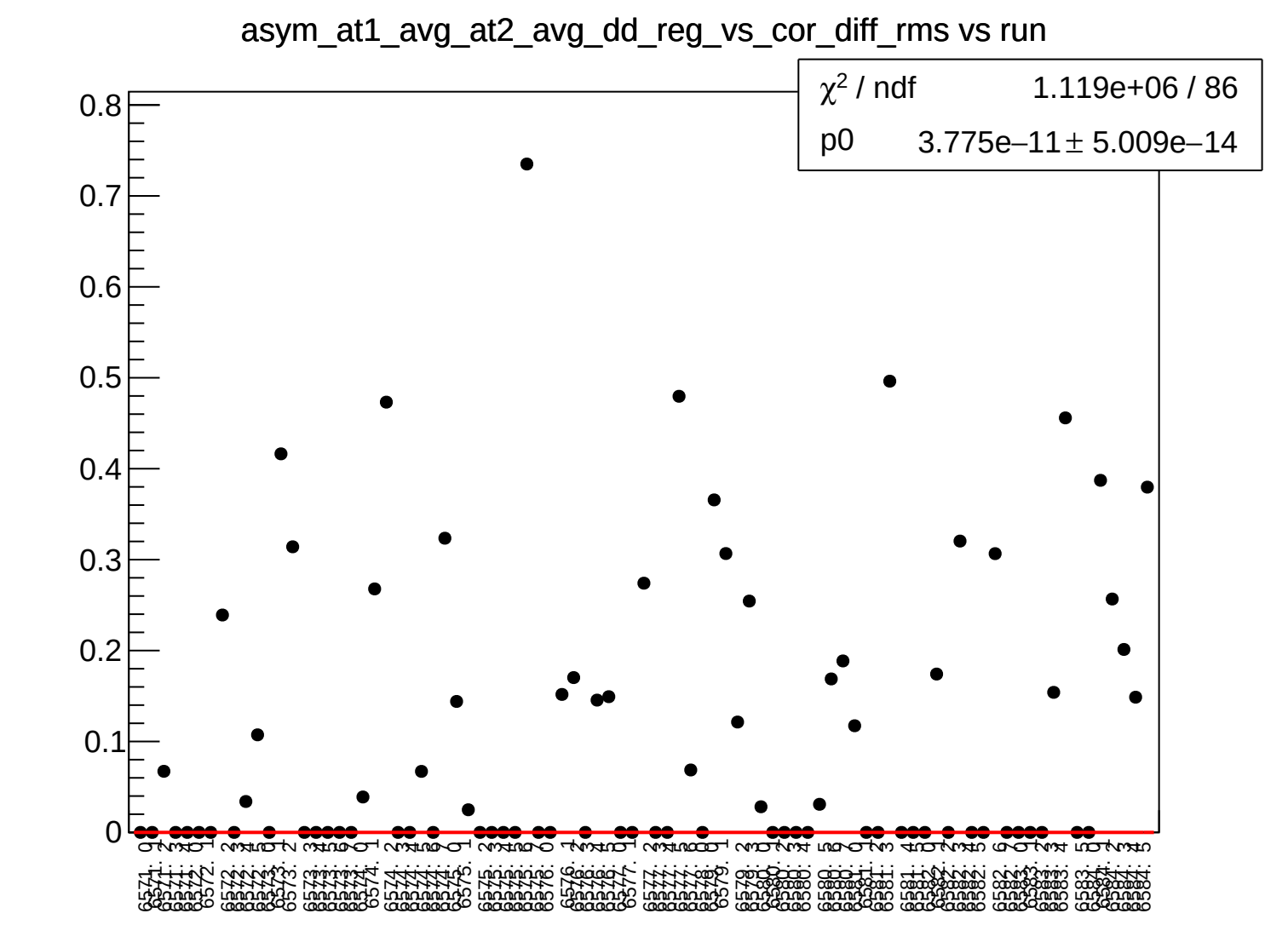

asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 101.5 / 86
p0 3783 ± 4178
×10³
pull
Entries 87
Mean −635.8
Std Dev 0

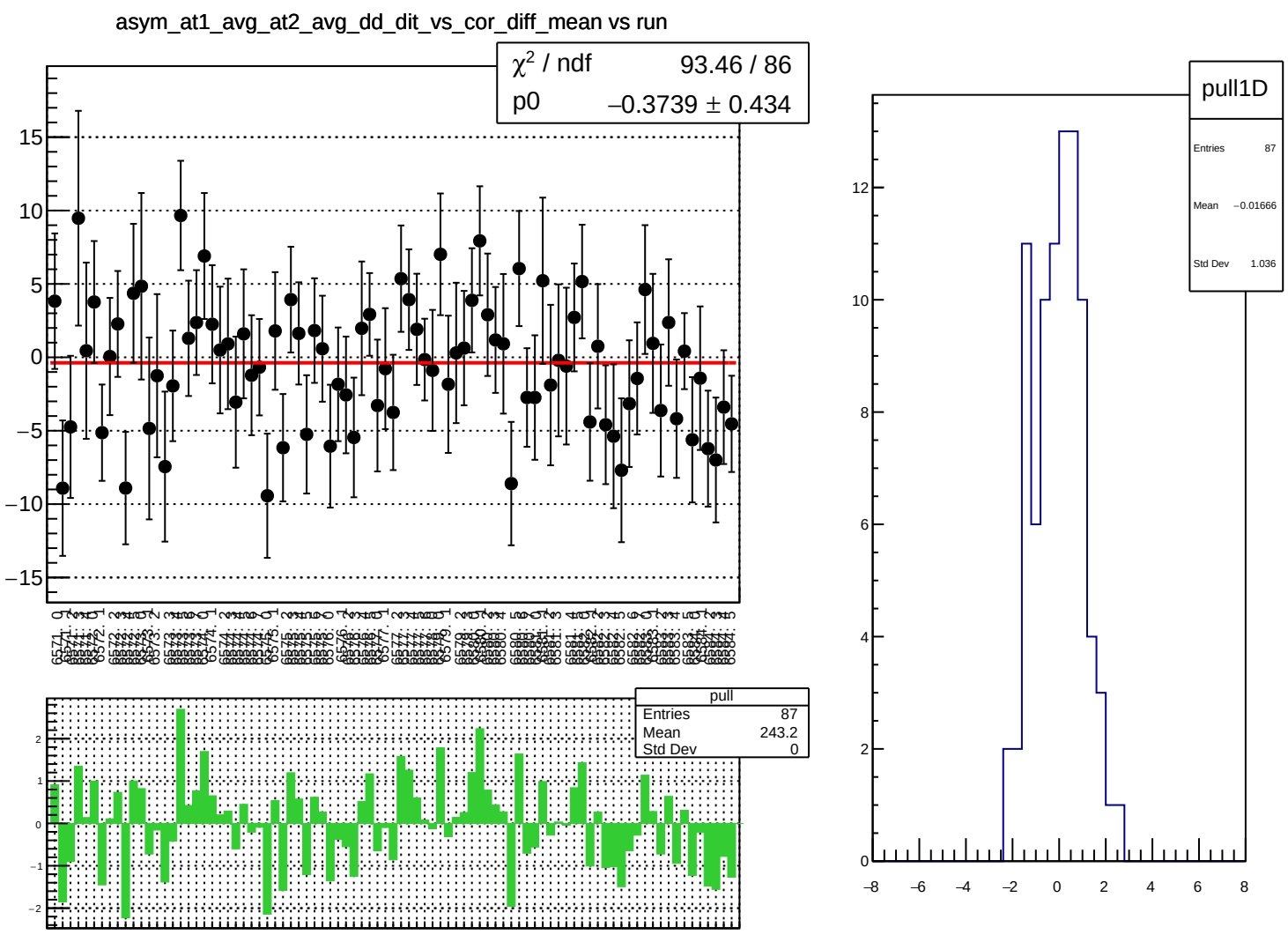

pull1D
Entries 87
Mean −0.006548
Std Dev 1.08

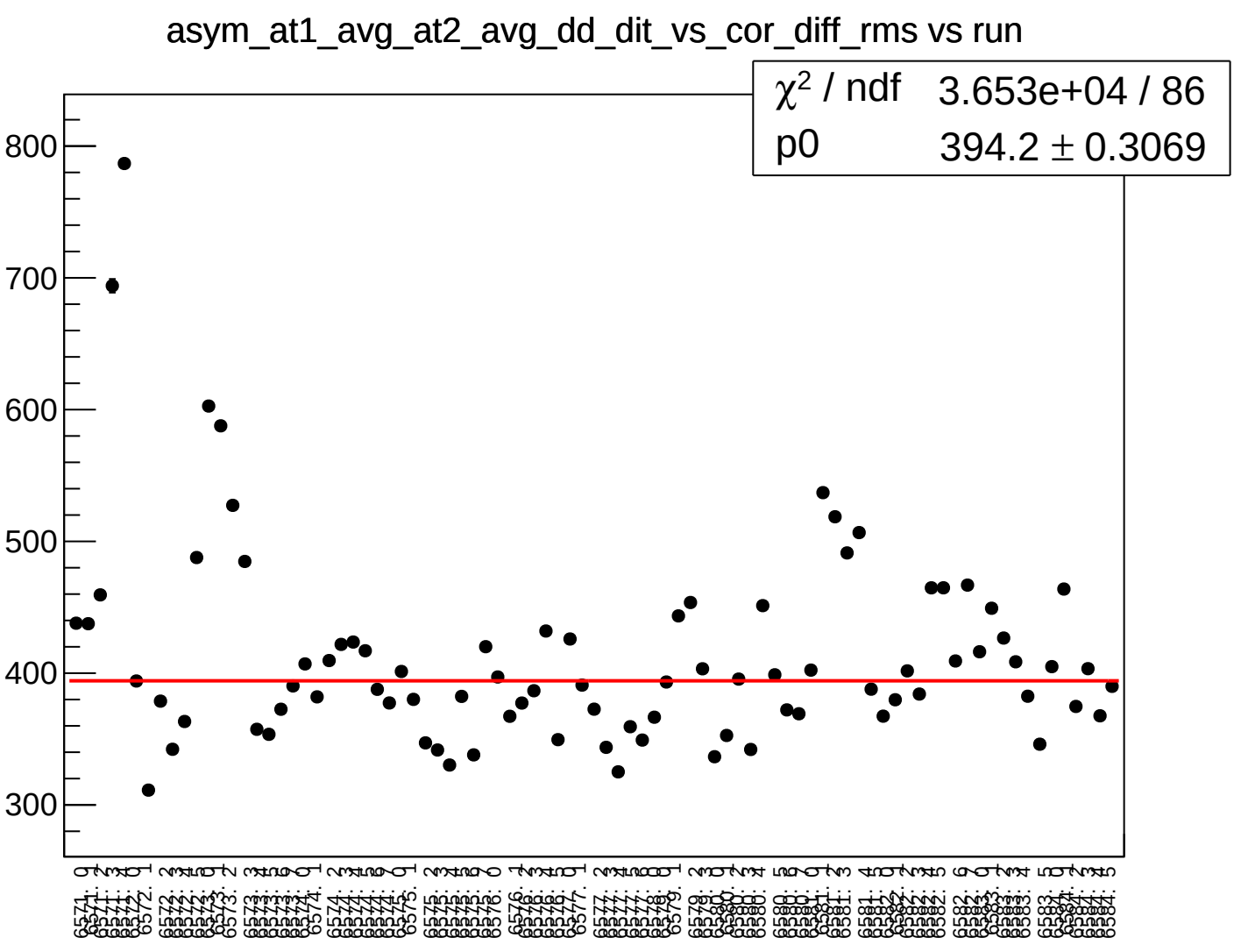

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 9617 / 86
p0 3826 ± 2.955
4800
4600
4400
4200
4000
3800
3600
3400

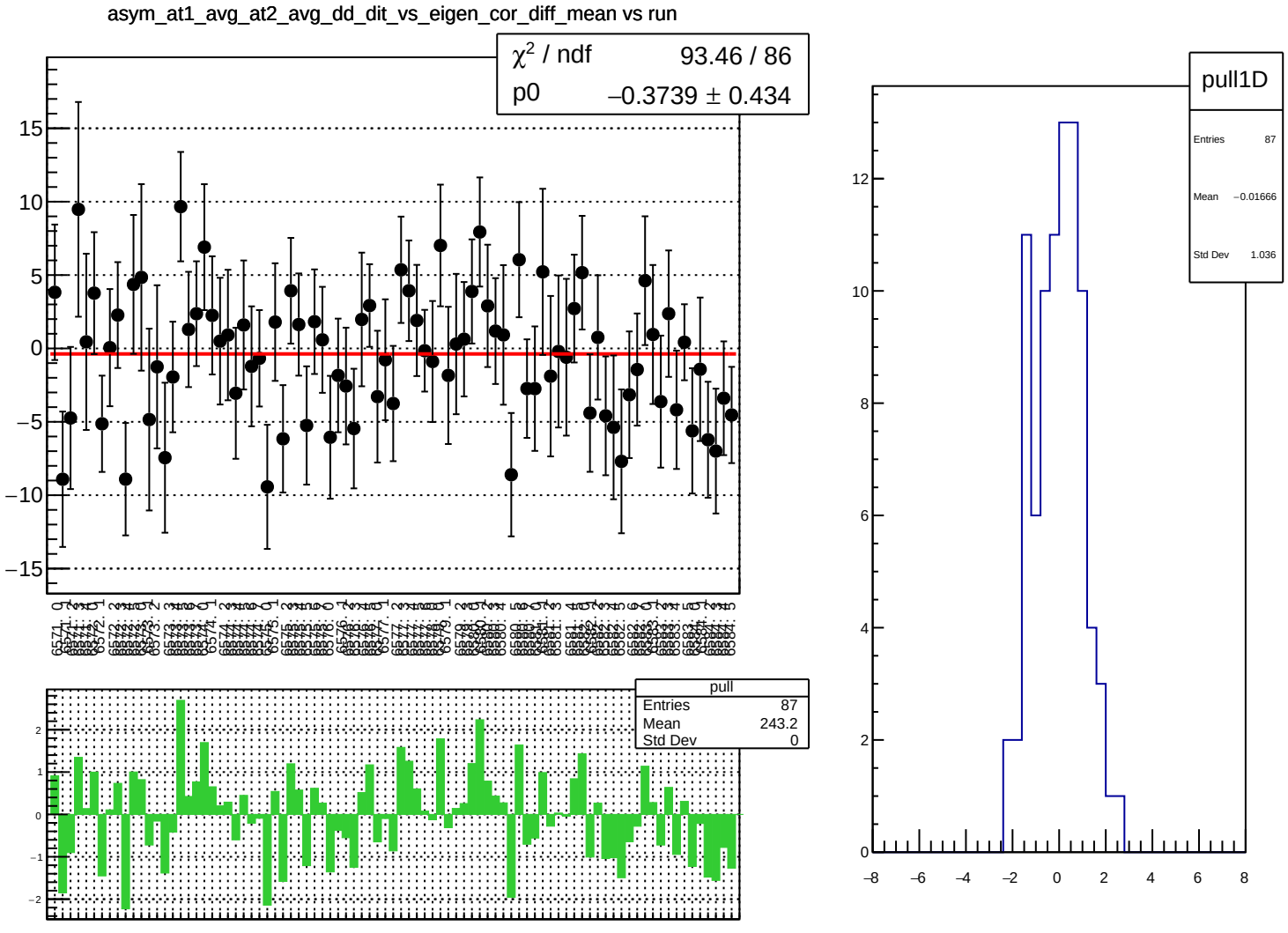

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.74 / 86
p0 −8.033e−14 ± 7.084e−14
pull
Entries 87
Mean 46.27
Std Dev 0

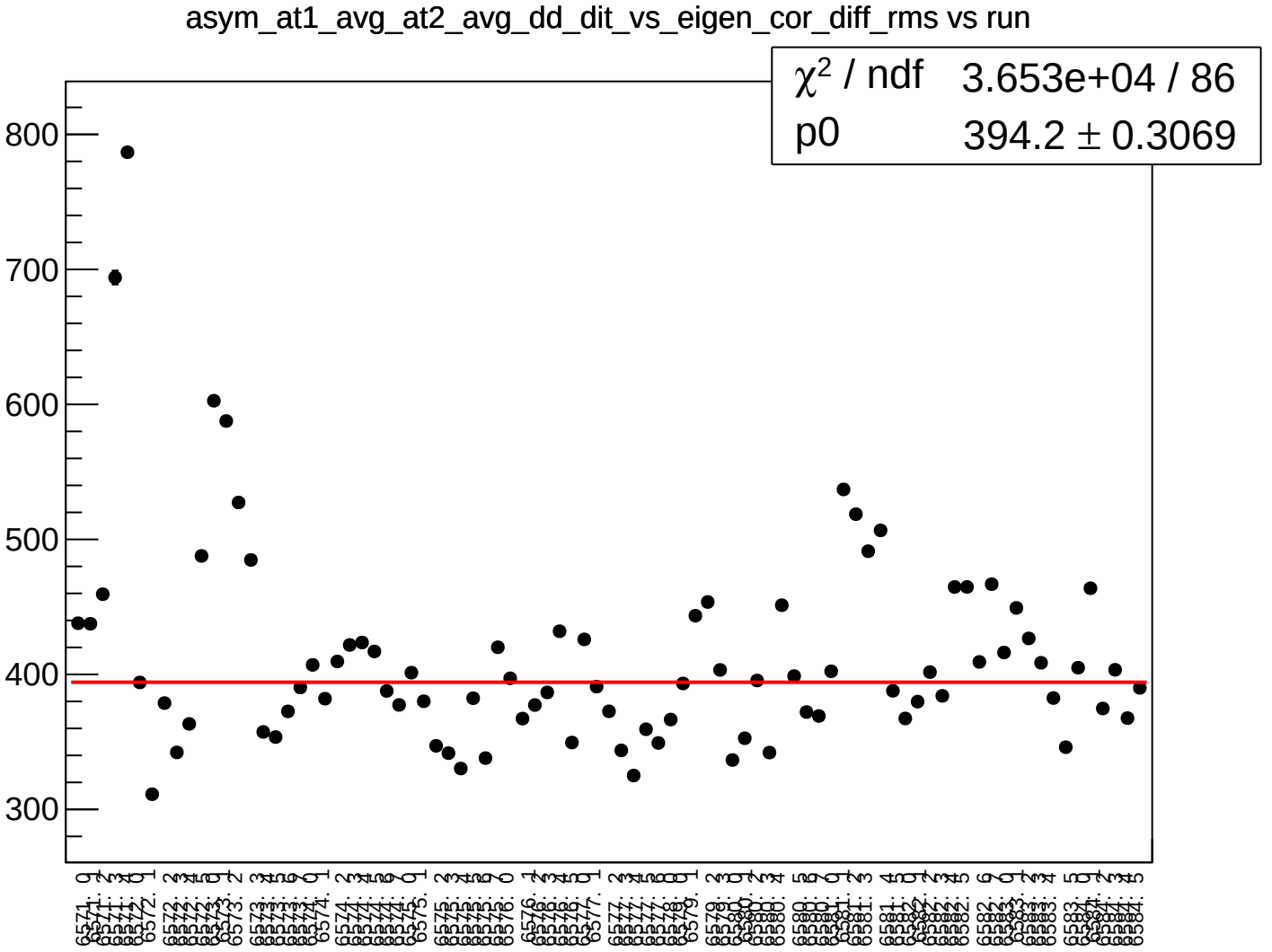

pull1D
Entries 87
Mean 0.06822
Std Dev 0.9846

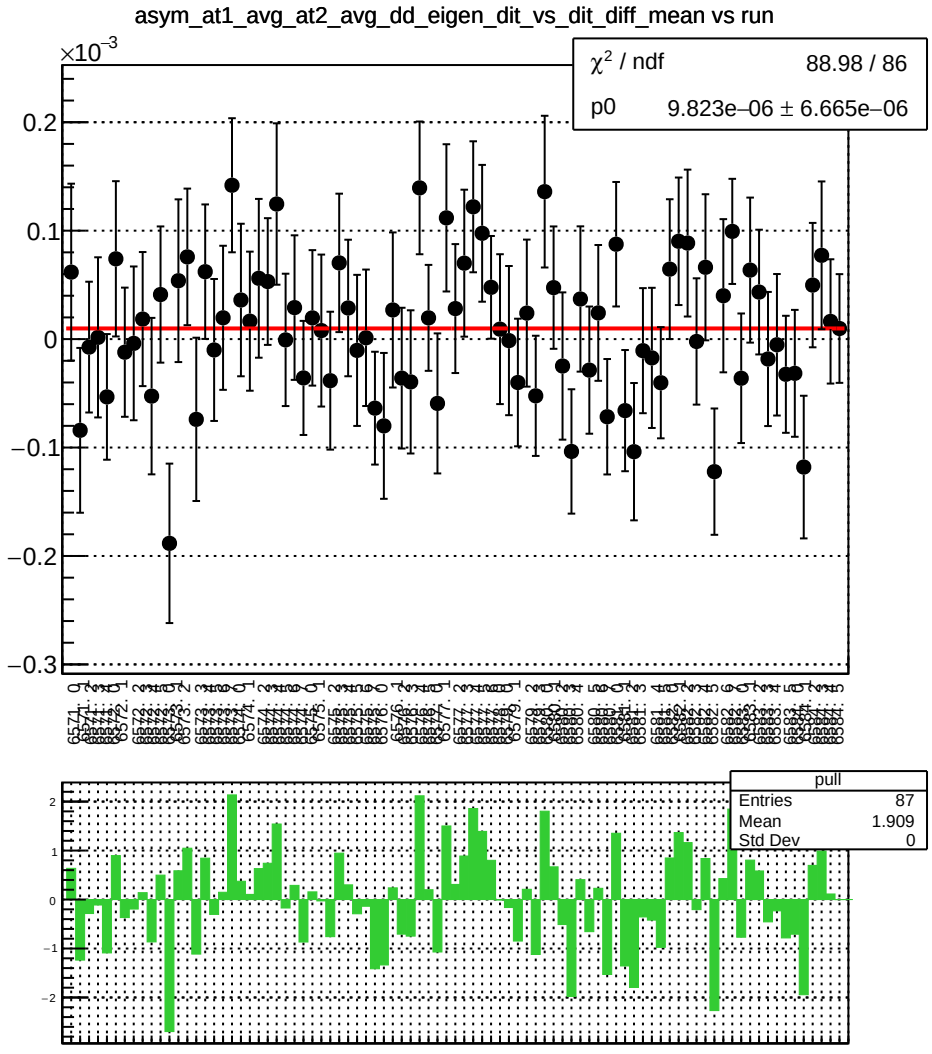

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.119e+06 / 86
p0 3.775e−11 ± 5.009e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

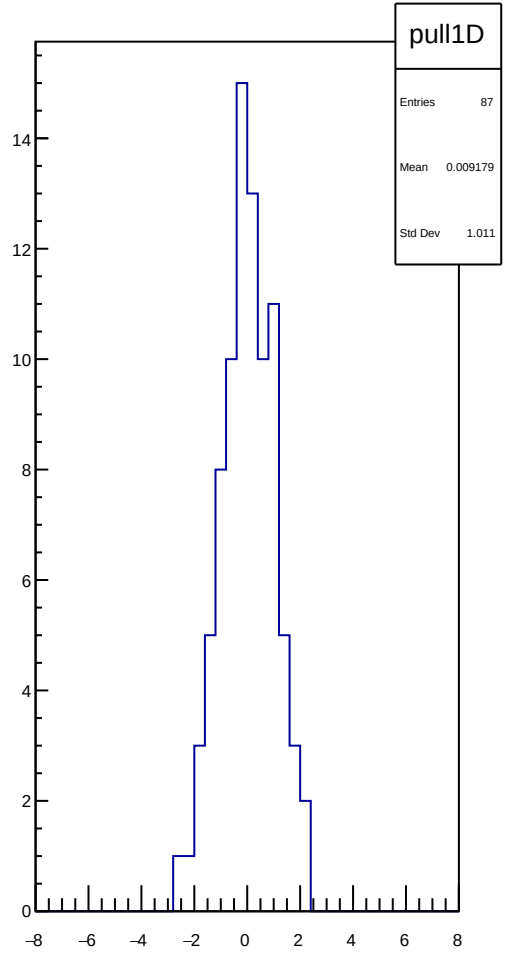

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0
pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

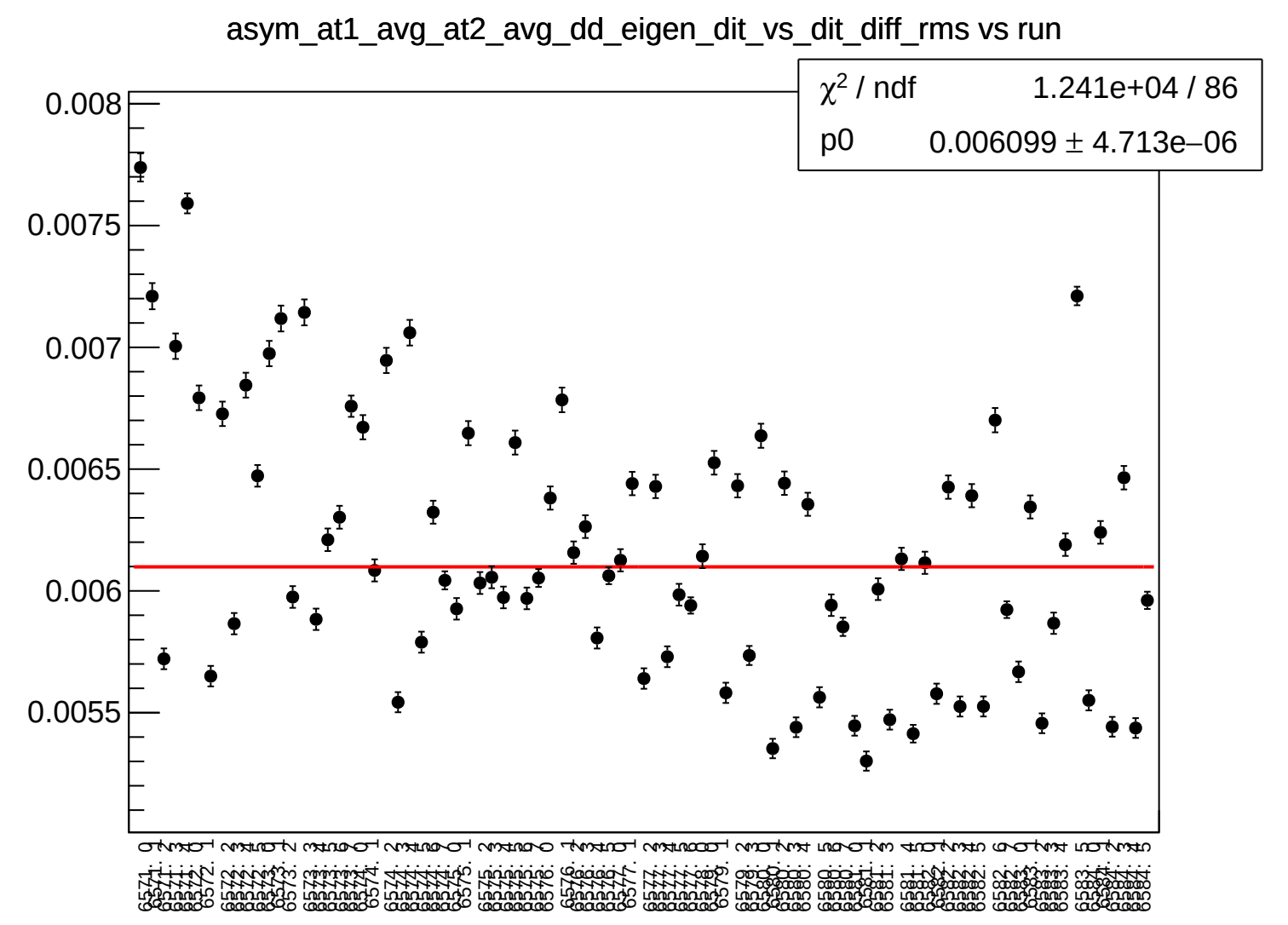

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

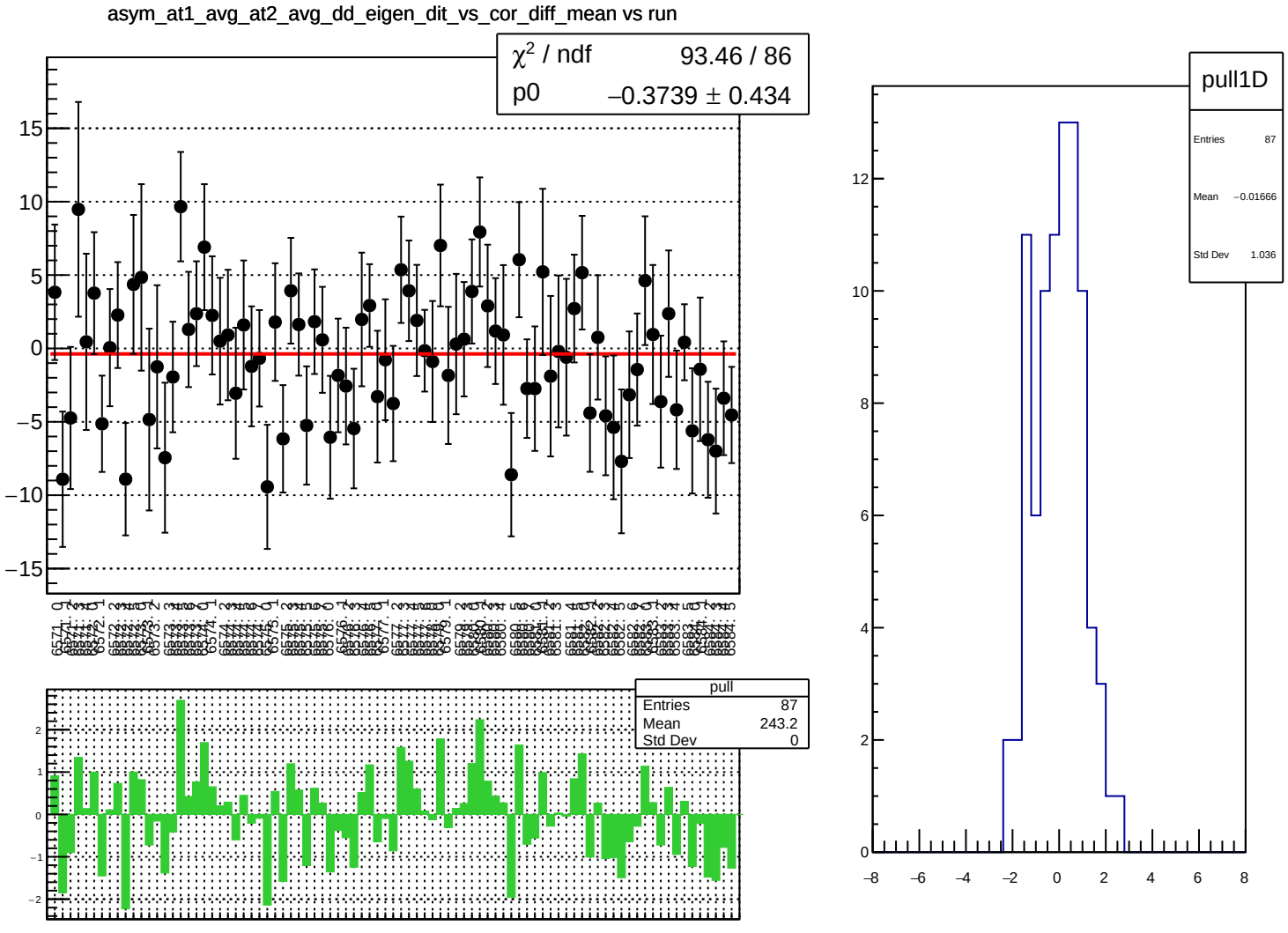

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0
pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

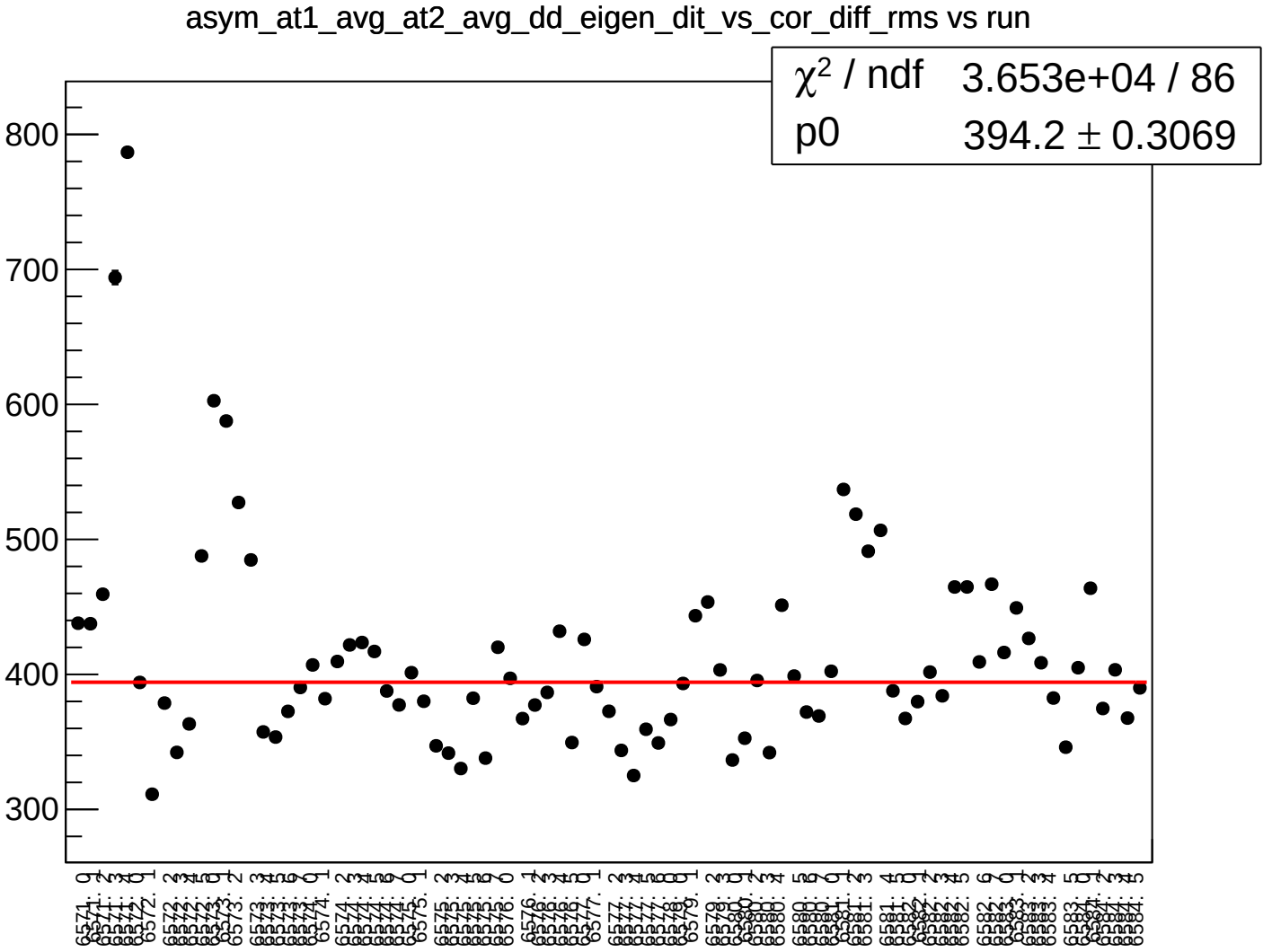

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

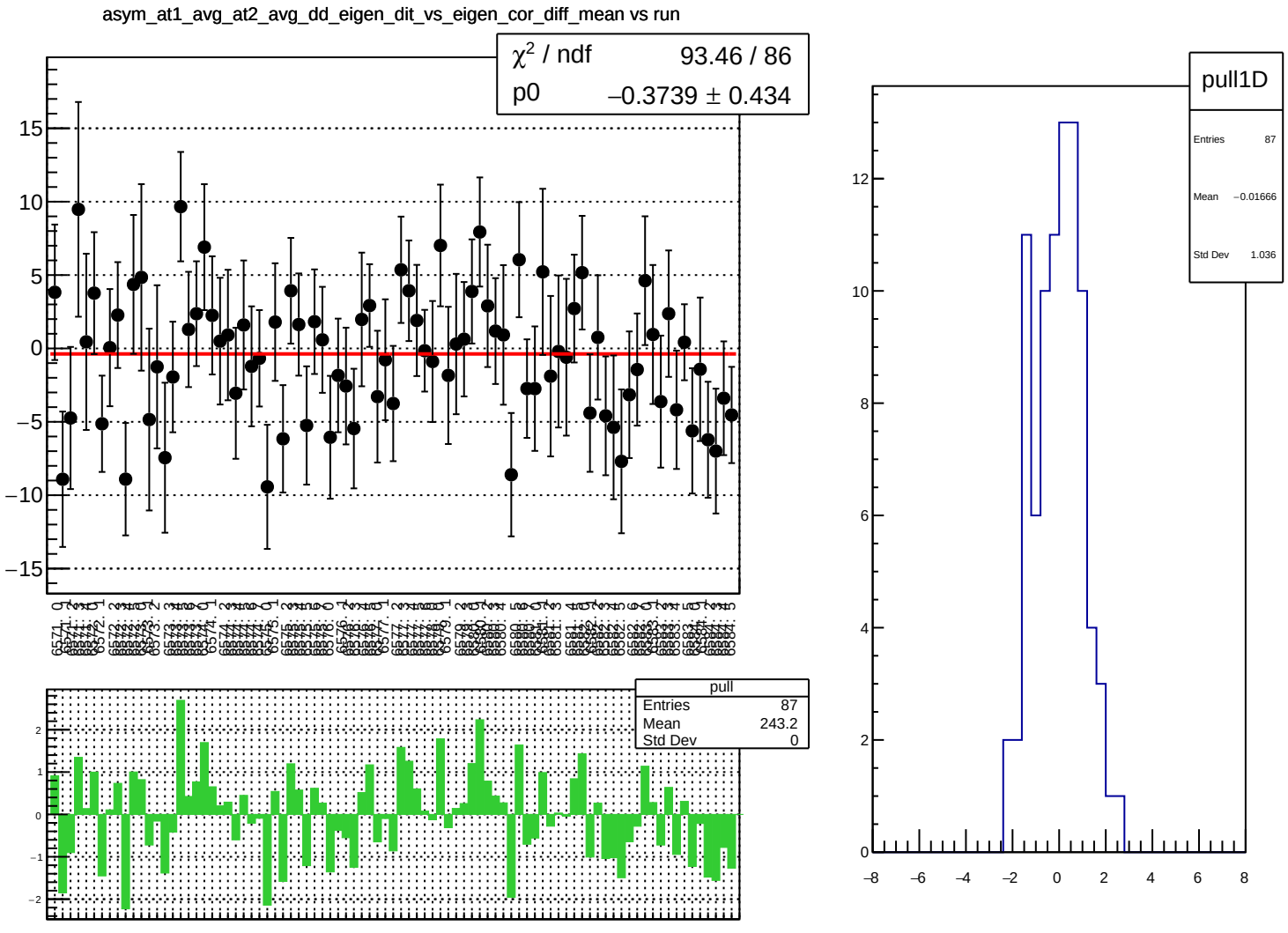

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.98 / 86
p0 9.823e−06 ± 6.665e−06
pull
Entries 87
Mean 1.909
Std Dev 0

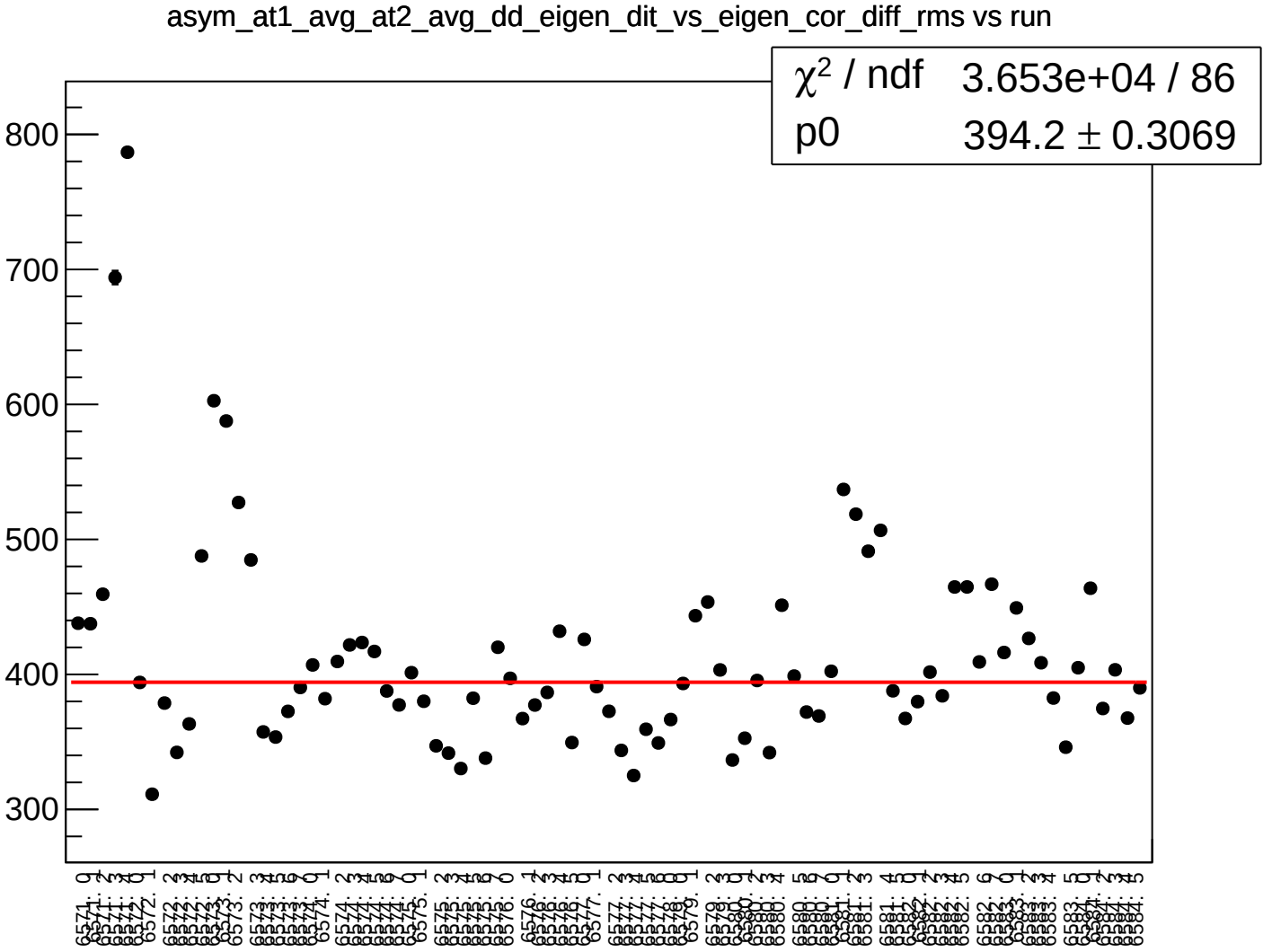

pull1D
Entries 87
Mean 0.009179
Std Dev 1.011

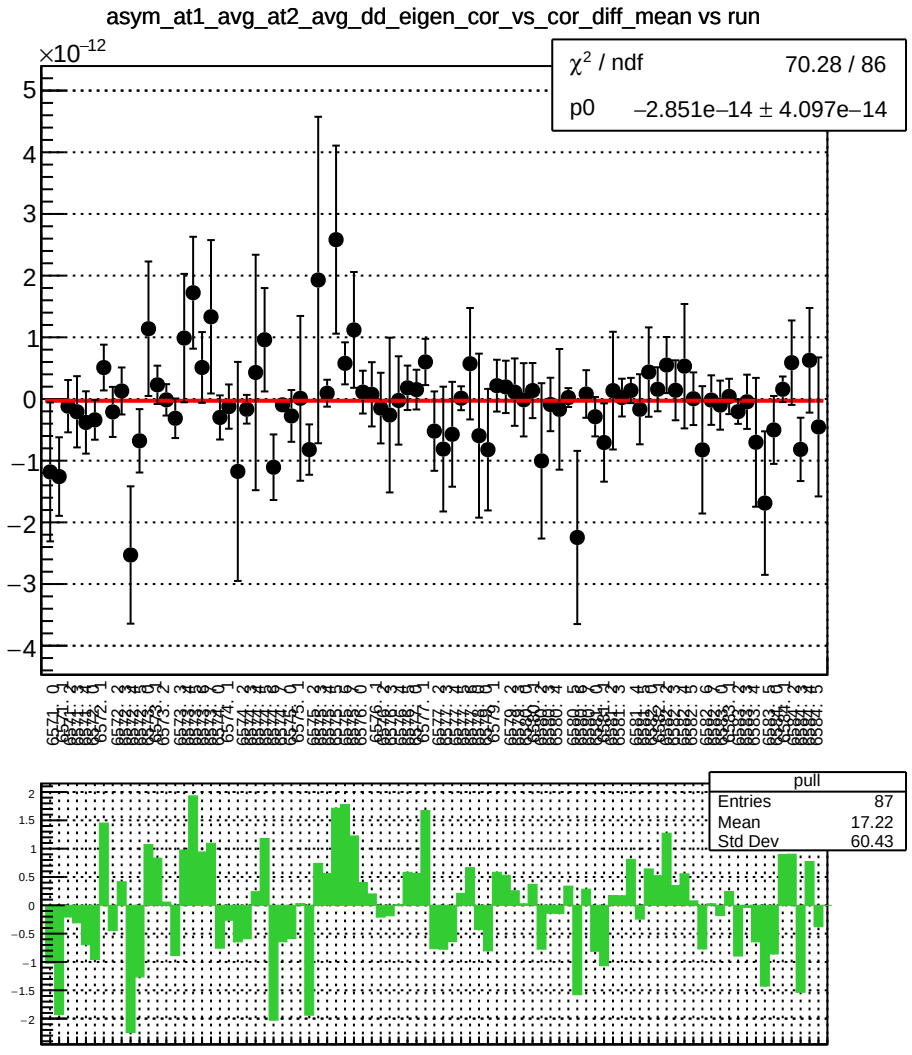

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.241e+04 / 86
p0 0.006099 ± 4.713e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

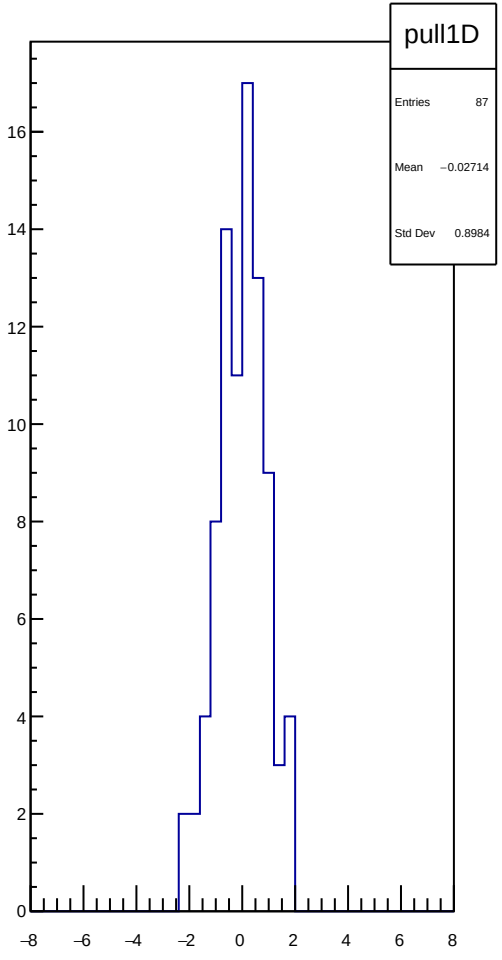

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0
pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

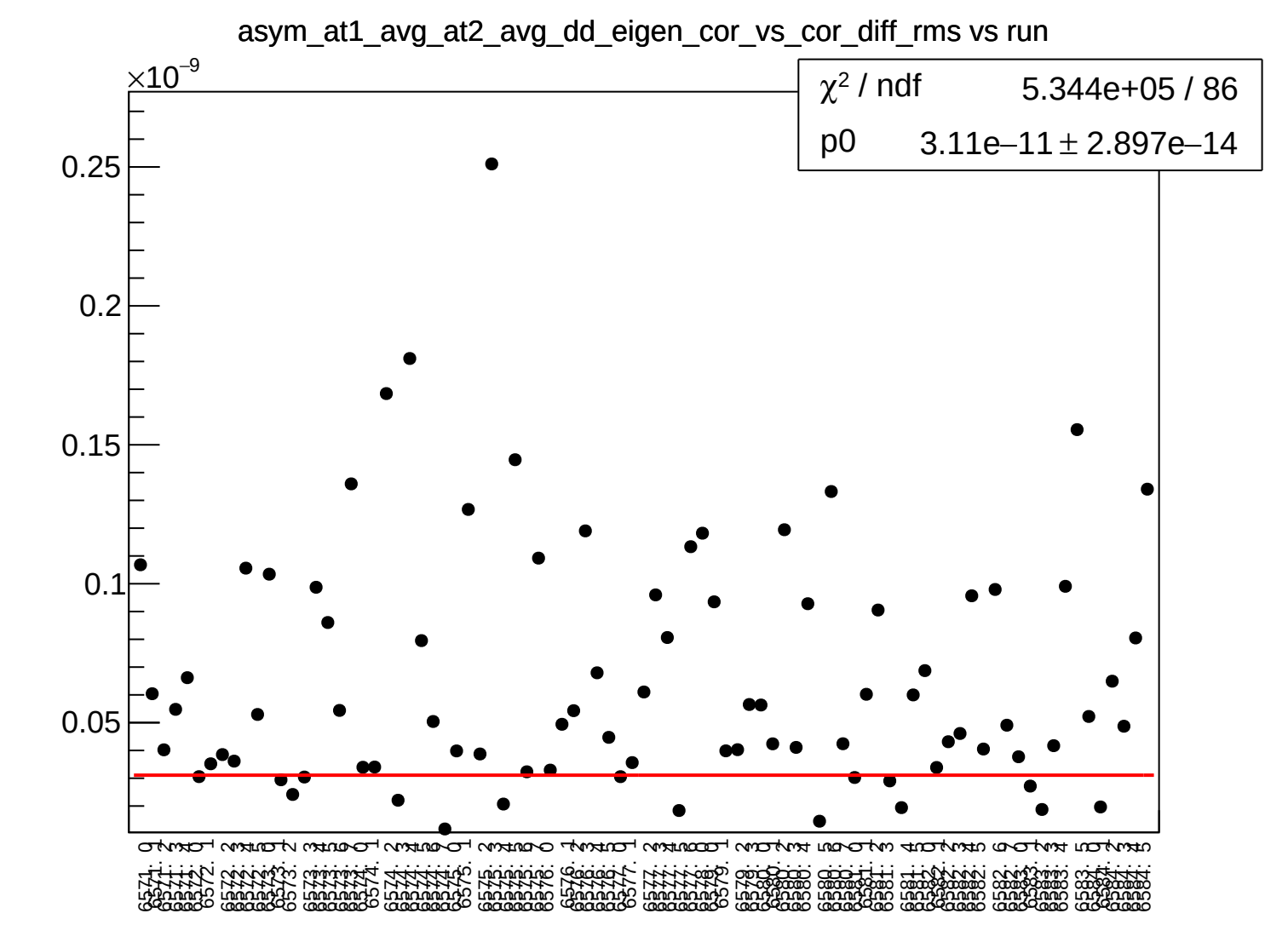

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

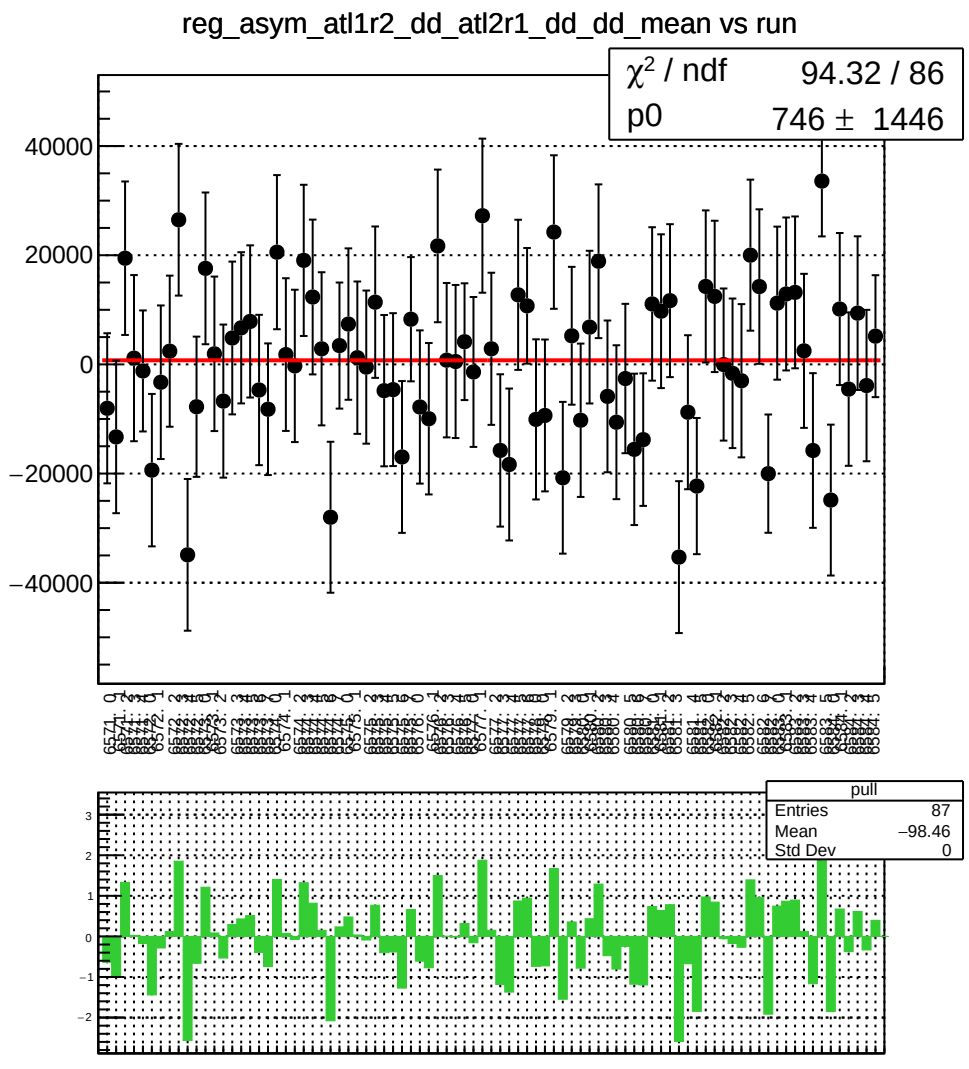

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0
pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

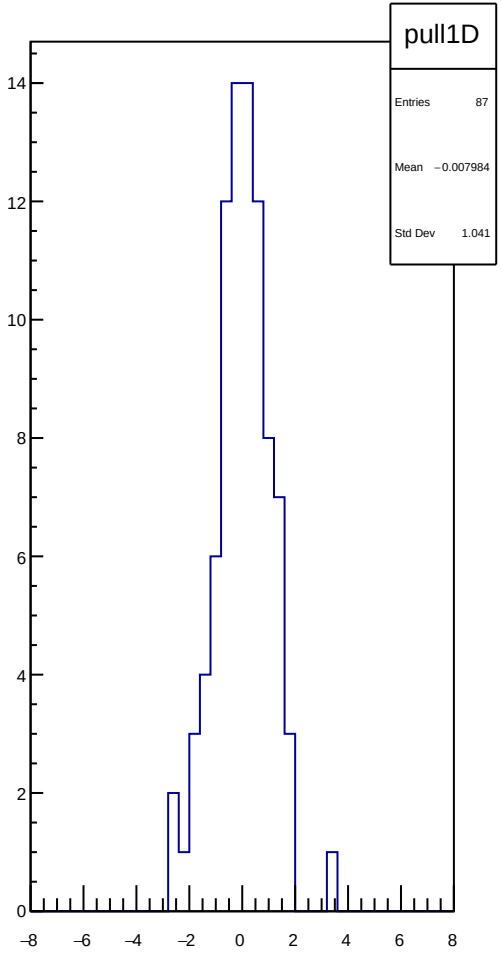

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

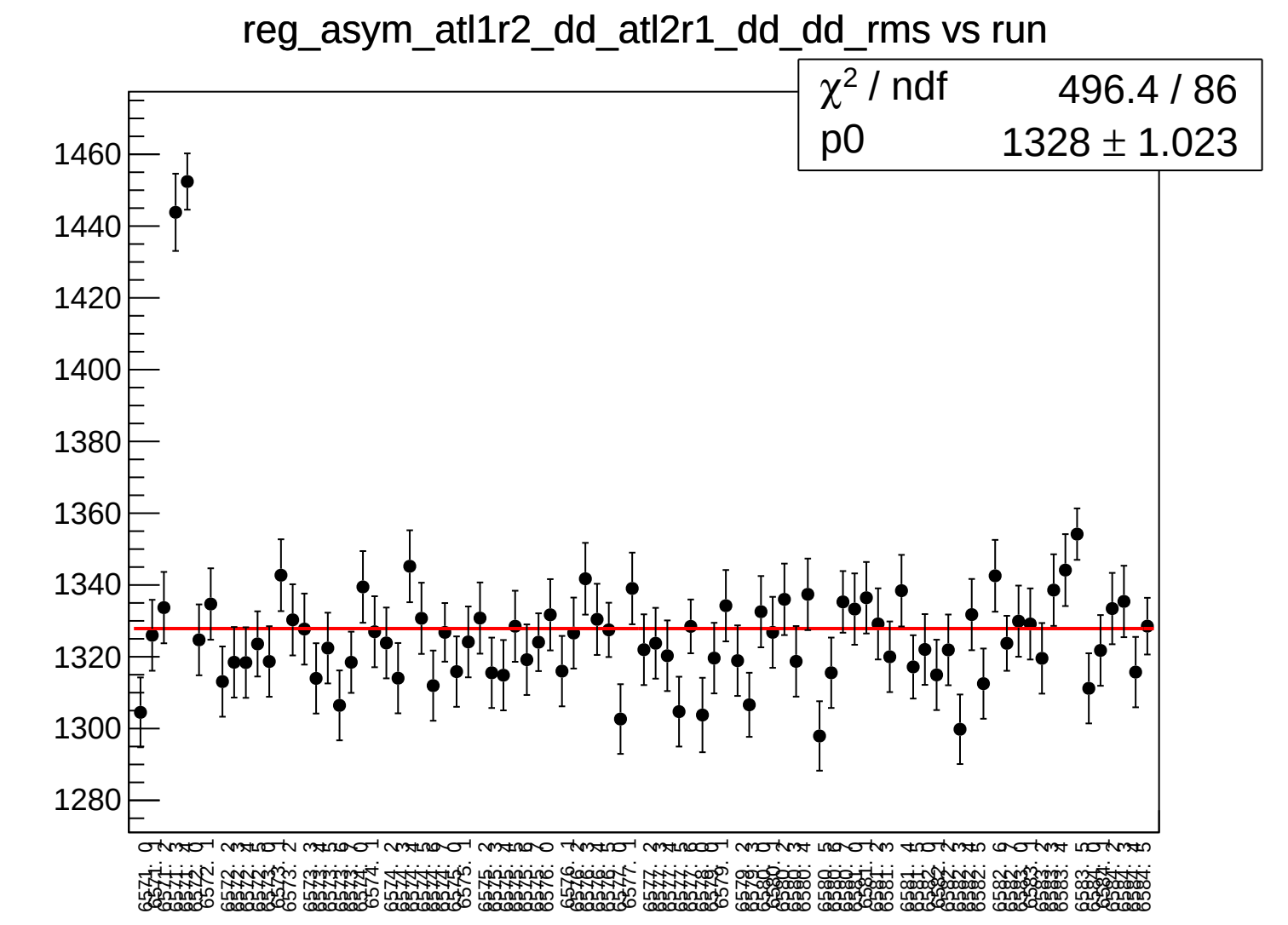

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.28 / 86
p0 −2.851e−14 ± 4.097e−14
pull
Entries 87
Mean 17.22
Std Dev 60.43

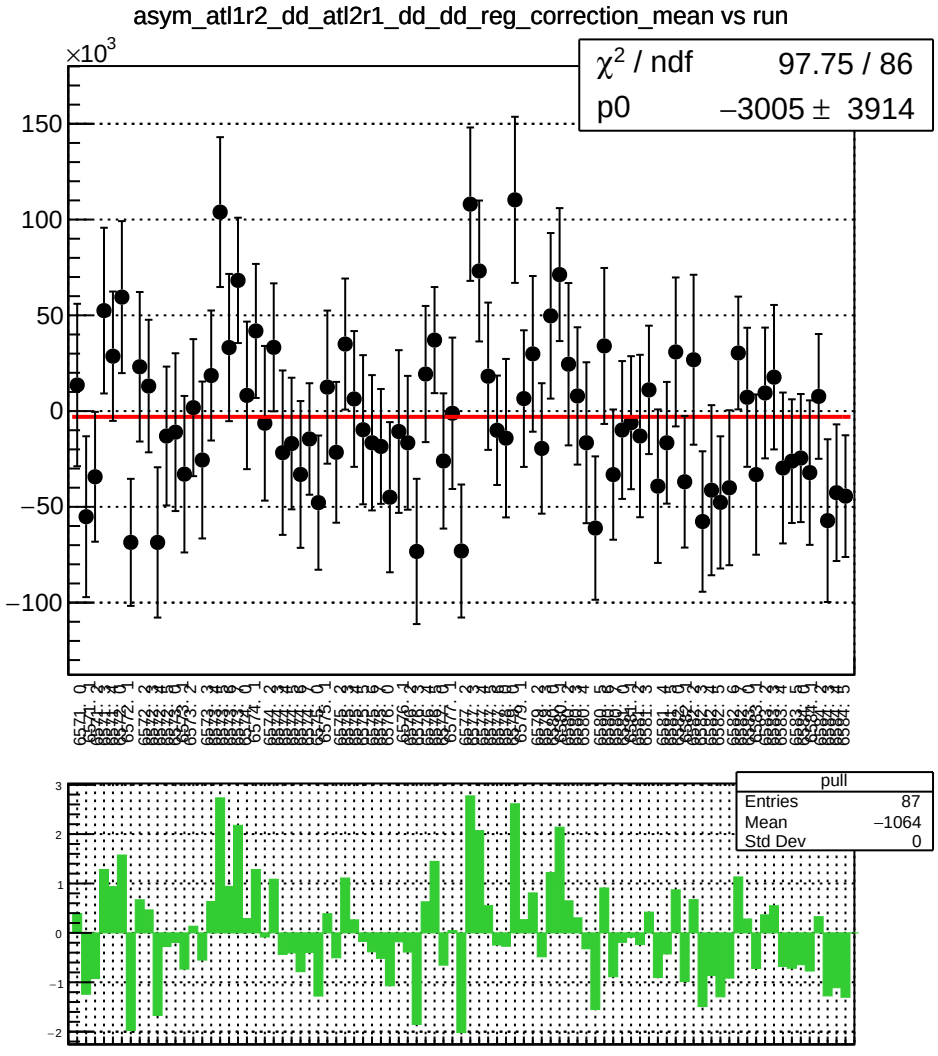

pull1D
Entries 87
Mean −0.02714
Std Dev 0.8984

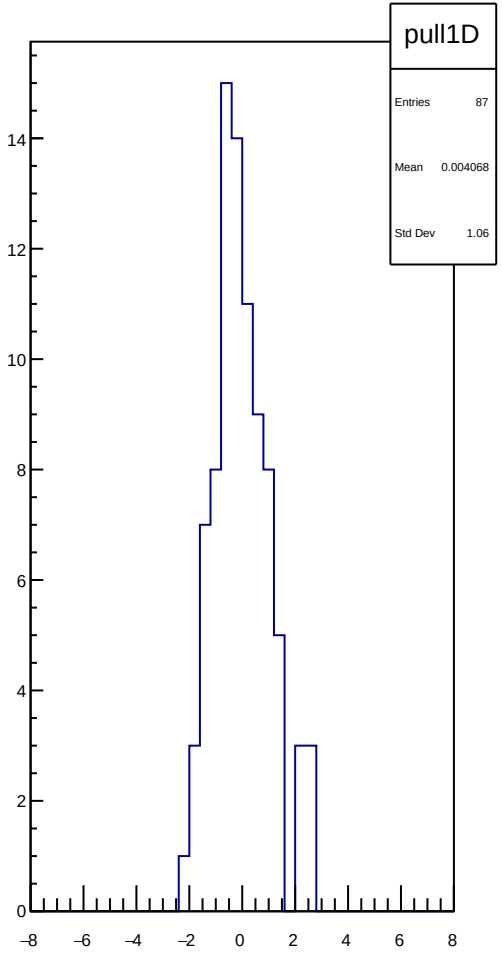

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.344e+05 / 86
p0 3.11e−11 ± 2.897e−14
0.25
0.2
0.15
0.1
0.05

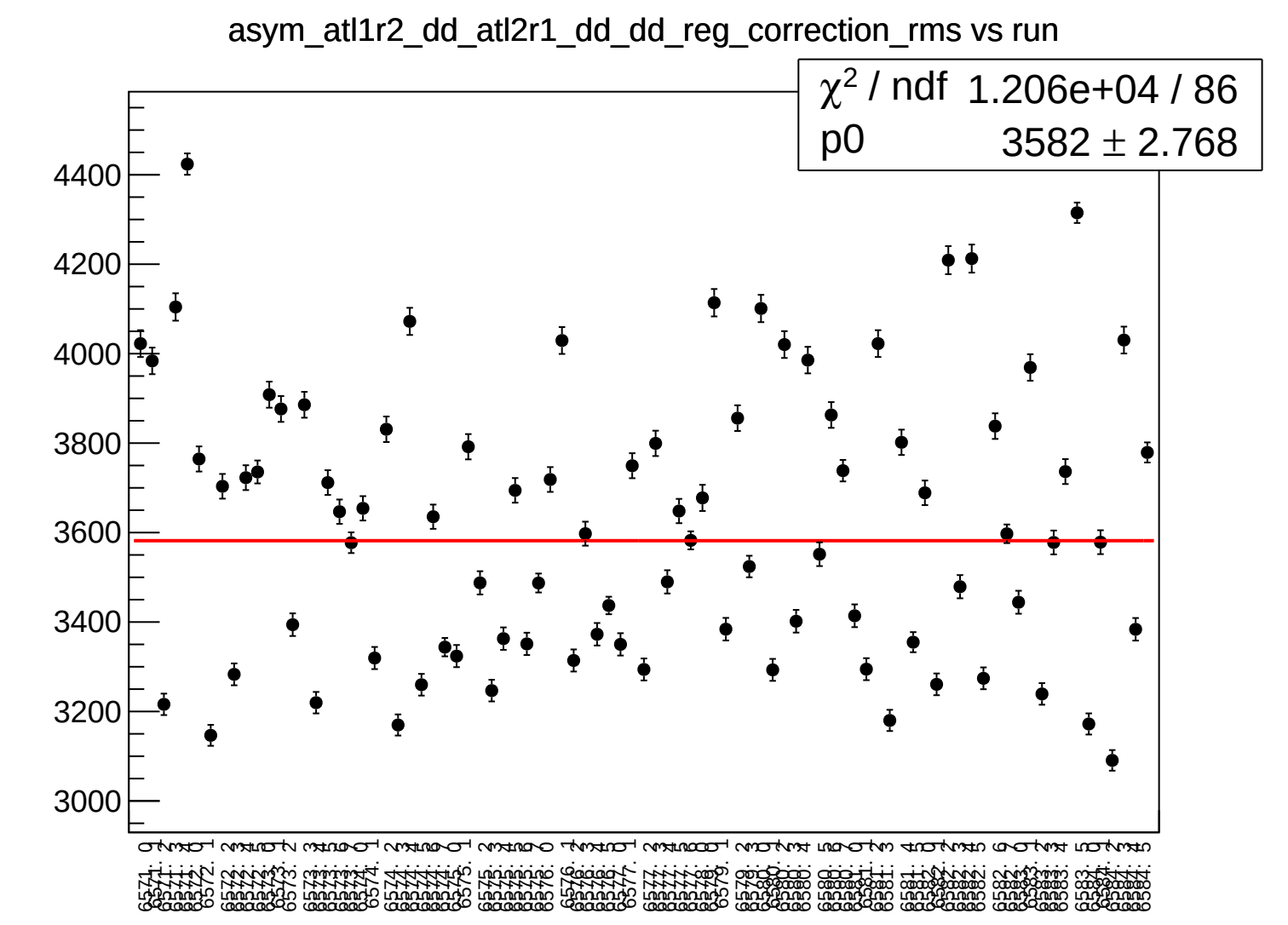

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 94.32 / 86
p0 746 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −98.46
Std Dev 0
3
2
1
0
−1
−2

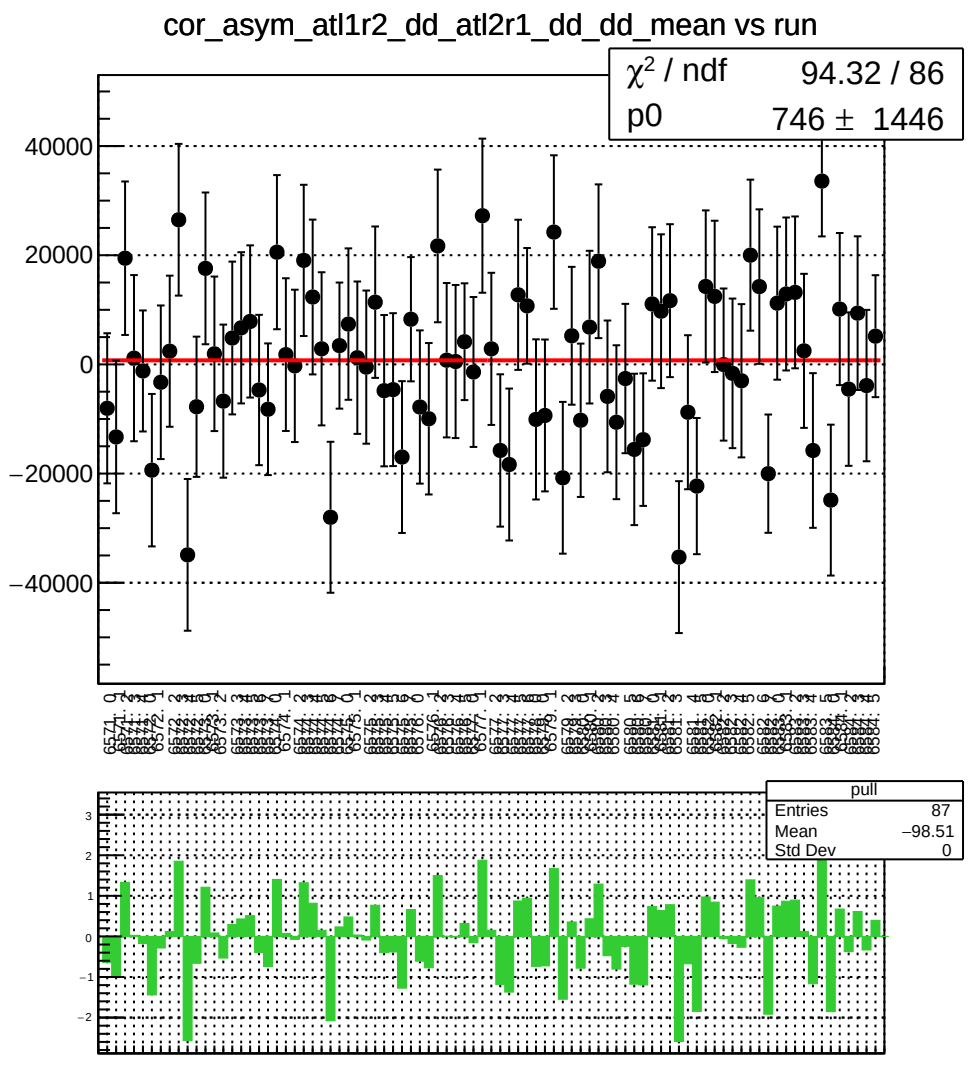

pull1D
Entries 87
Mean −0.007984
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

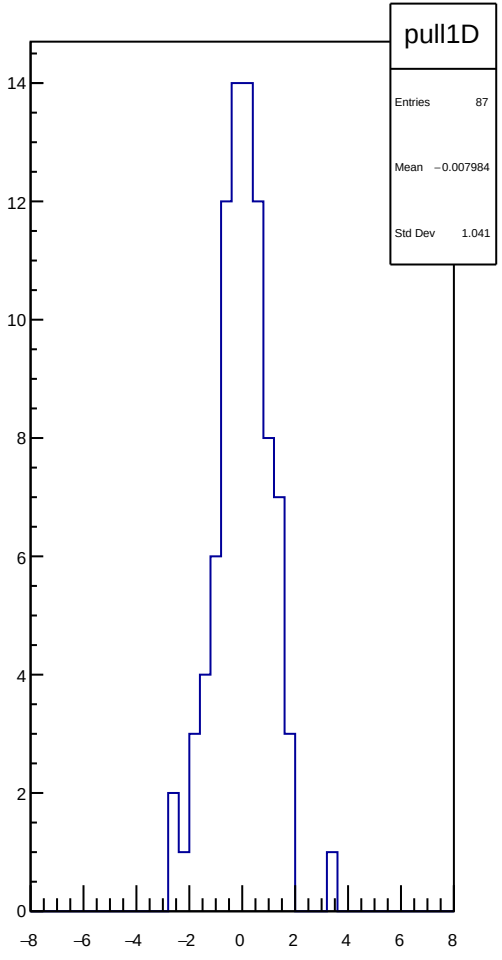

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 496.4 / 86
p0 1328 ± 1.023
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

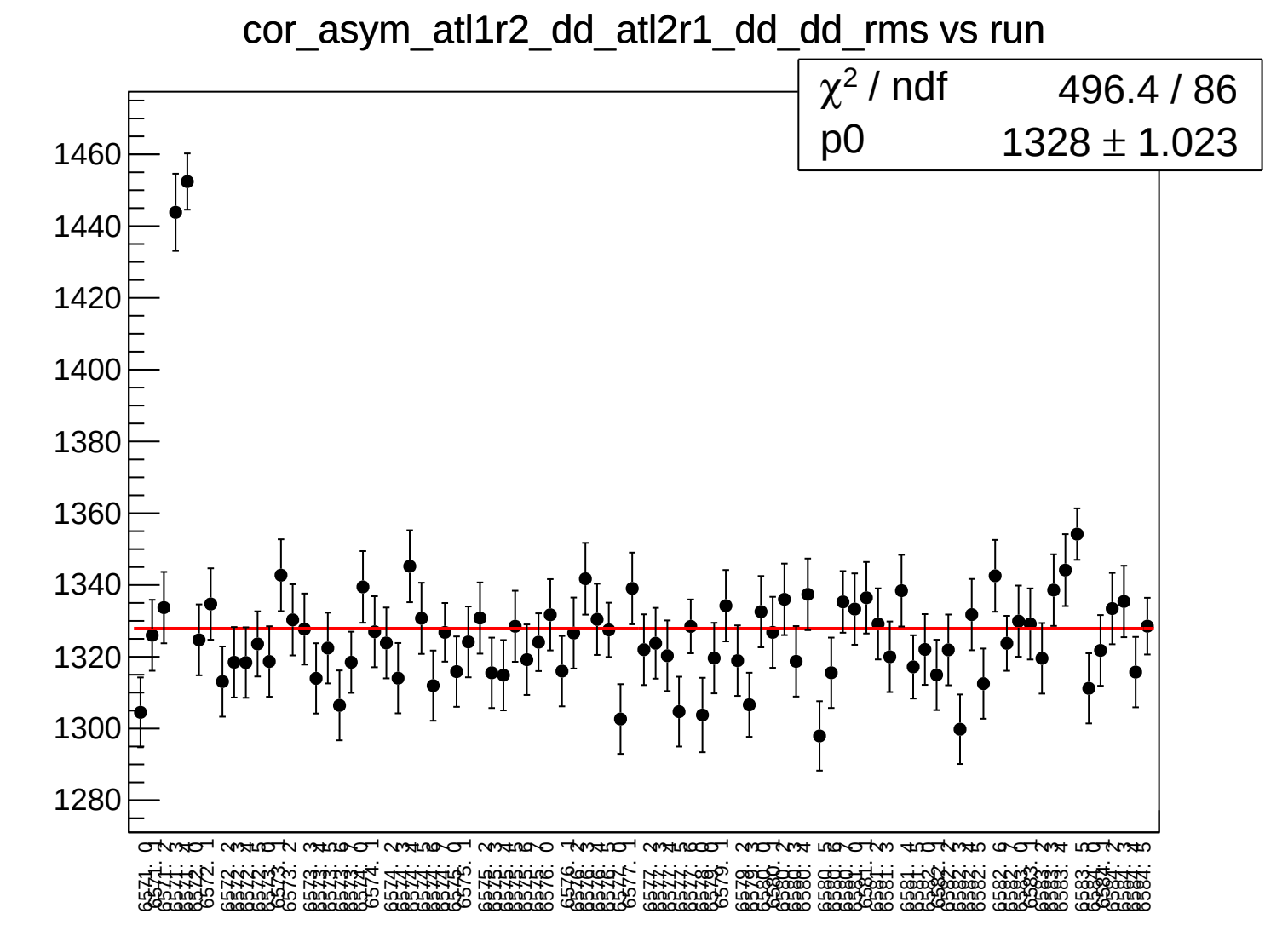

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.75 / 86
p0 −3005 ± 3914
150
100
50
0
−50
−100
pull
Entries 87
Mean −1064
Std Dev 0
3
2
1
0
−1
−2

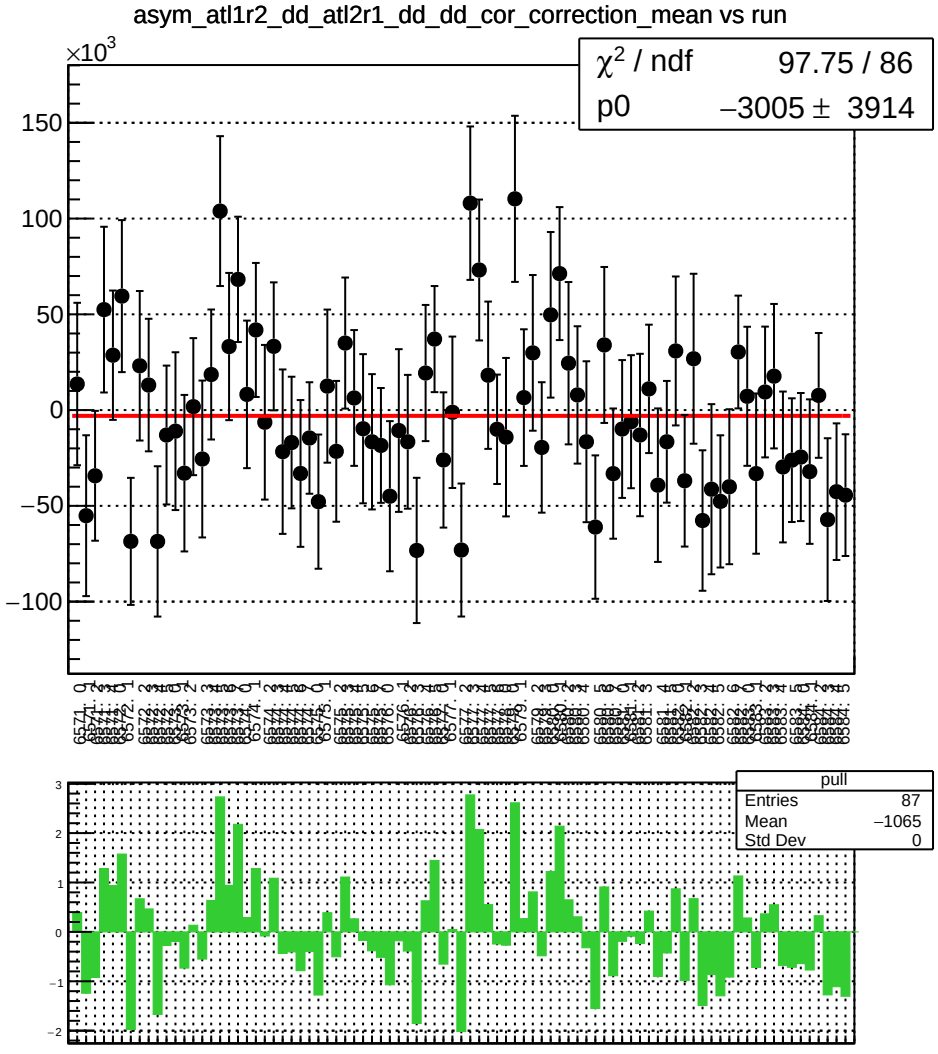

pull1D
Entries 87
Mean 0.004068
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

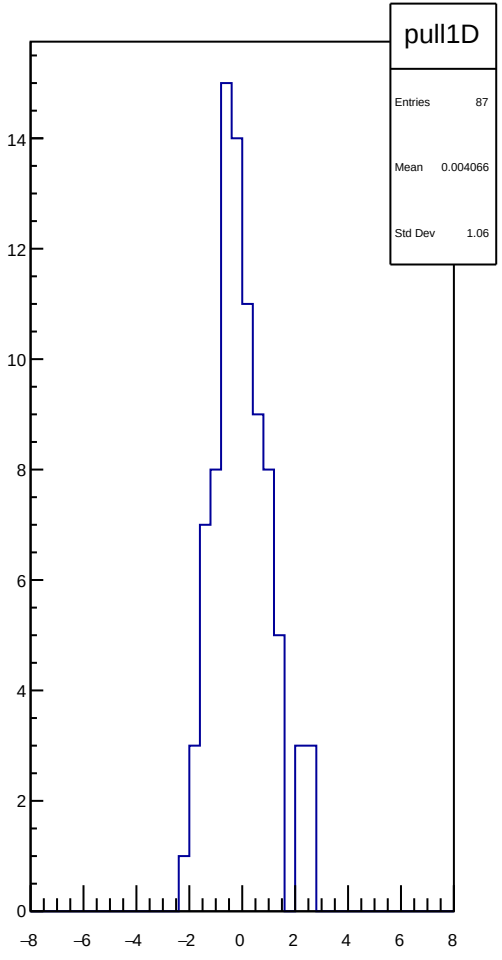

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.206e+04 / 86
p0 3582 ± 2.768
4400
4200
4000
3800
3600
3400
3200
3000

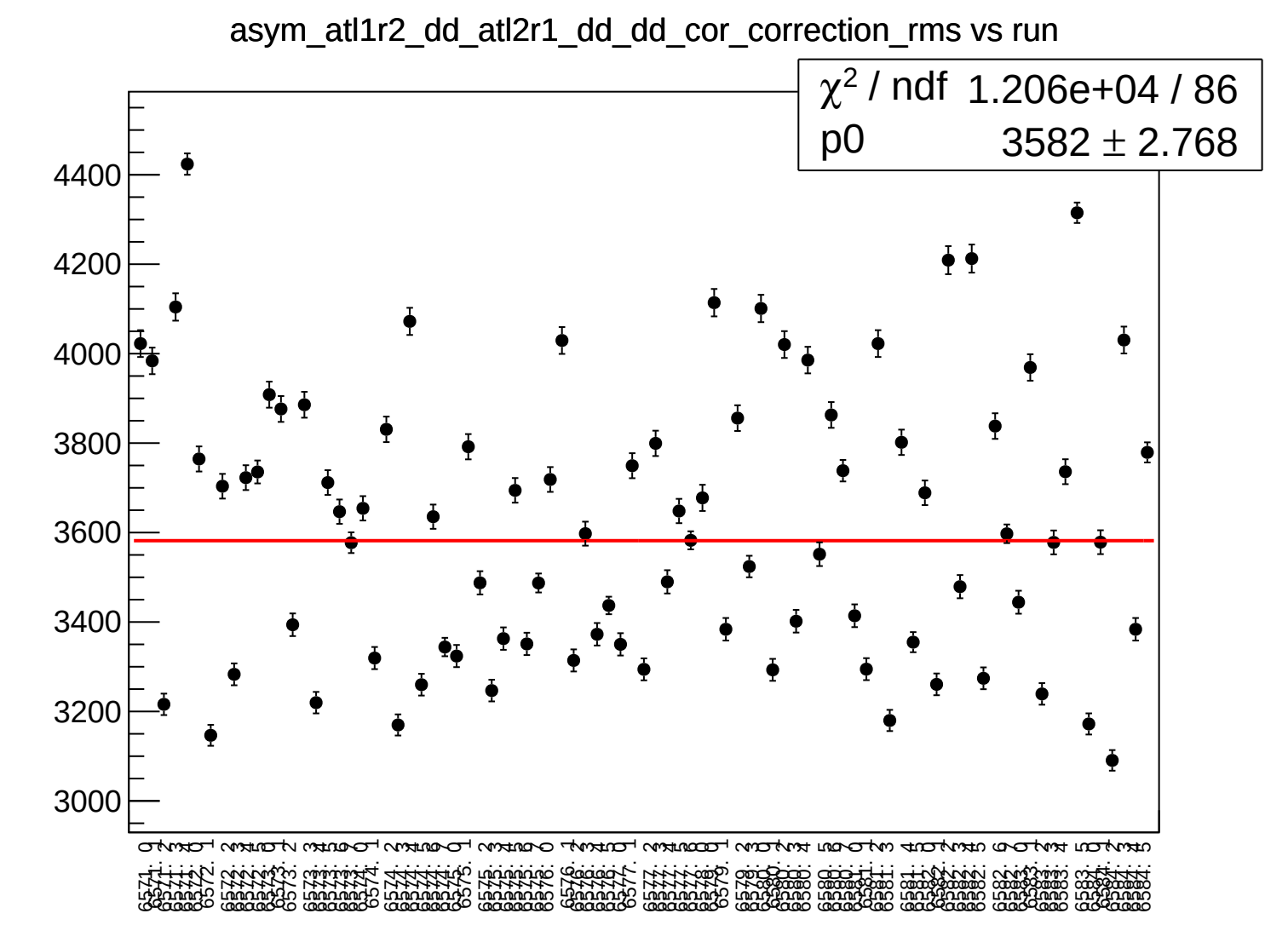

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 94.32 / 86
p0 746 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −98.51
Std Dev 0
3
2
1
0
−1
−2

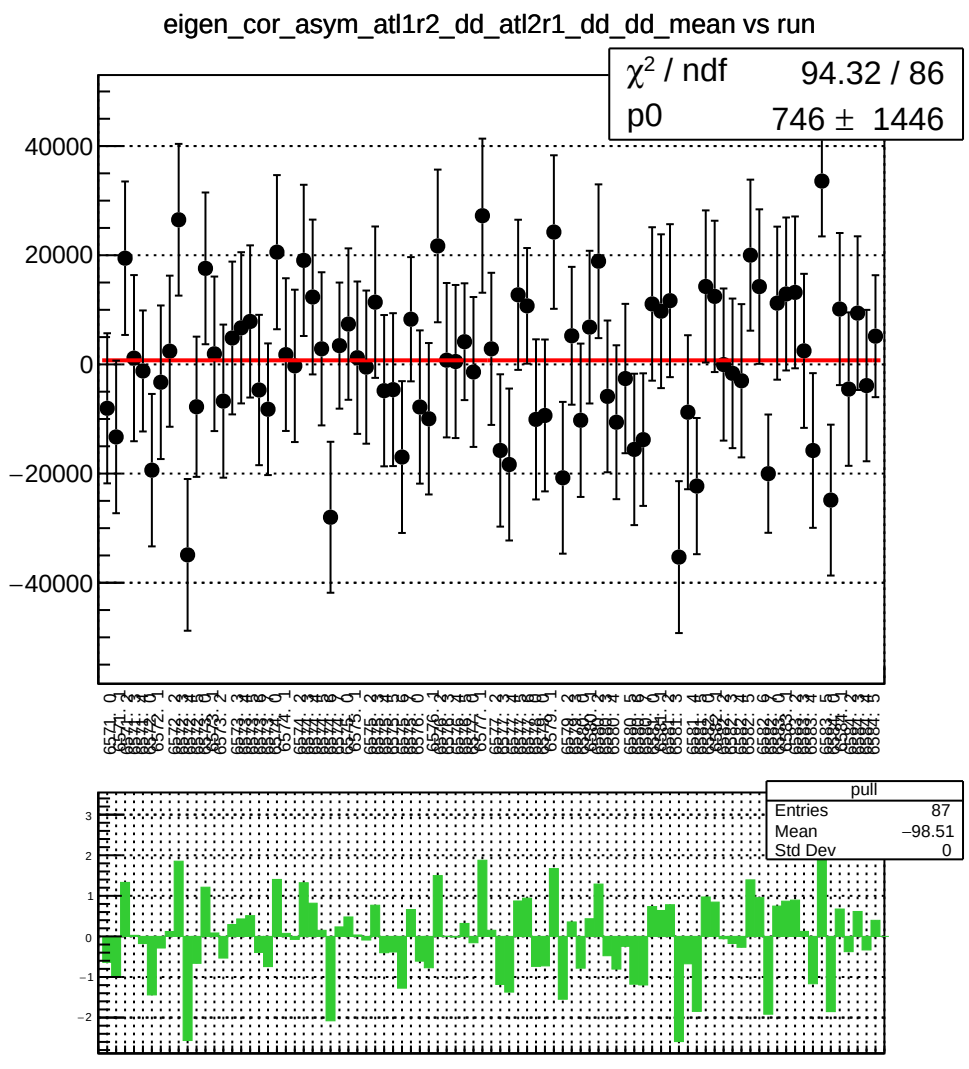

pull1D
Entries 87
Mean −0.007984
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

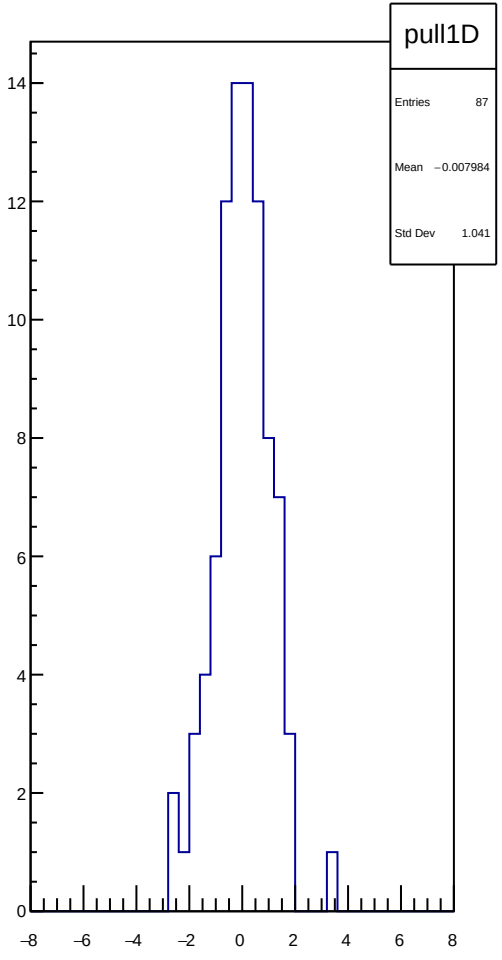

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 496.4 / 86
p0 1328 ± 1.023
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

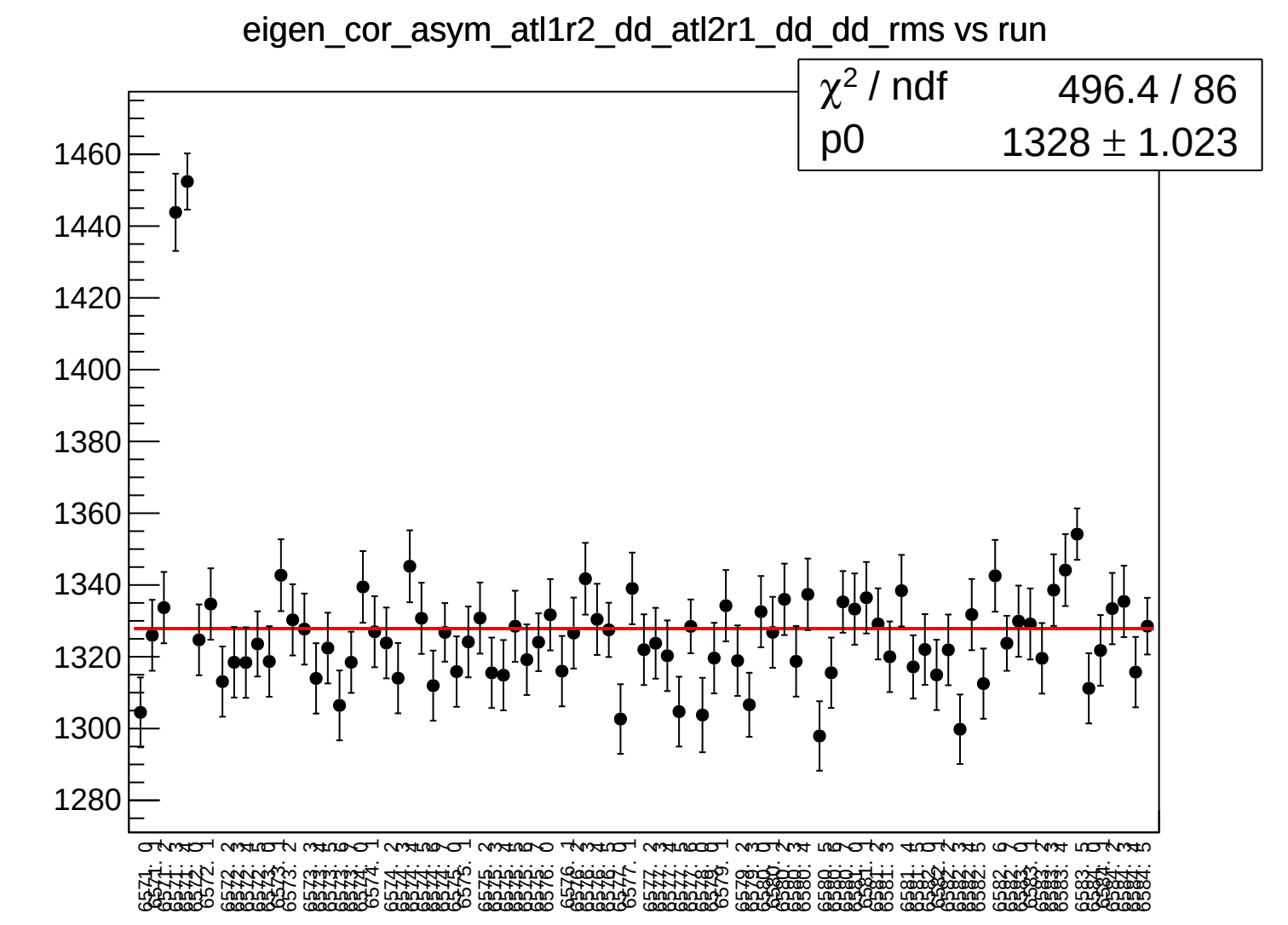

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.75 / 86
p0 −3005 ± 3914
150
100
50
0
−50
−100
pull
Entries 87
Mean −1065
Std Dev 0
3
2
1
0
−1
−2

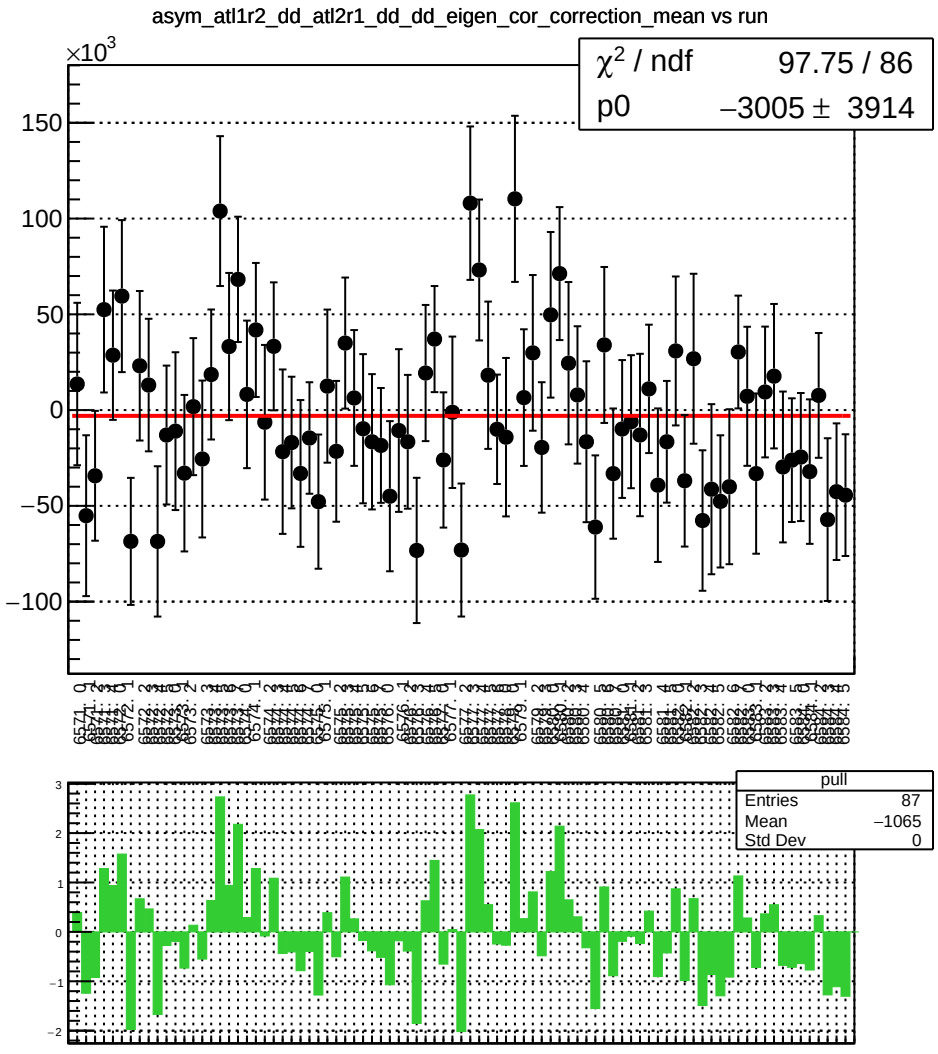

pull1D
Entries 87
Mean 0.004066
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

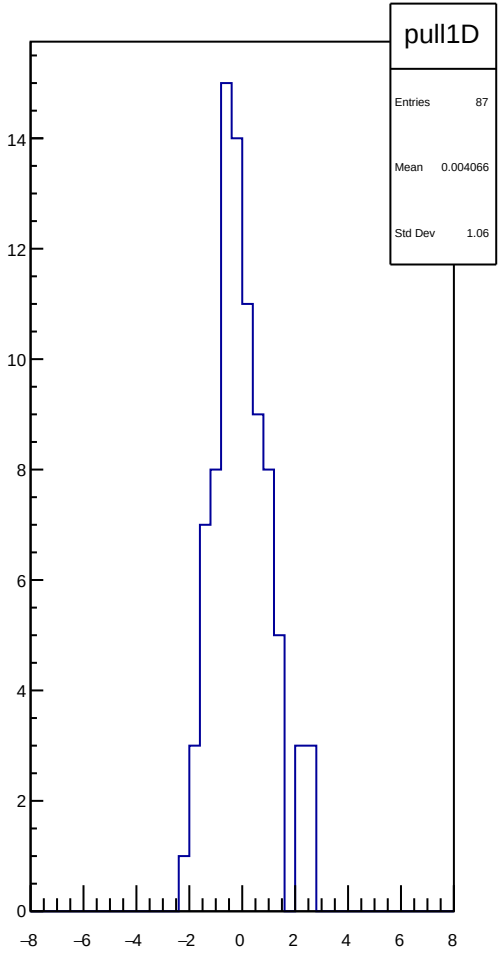

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.206e+04 / 86
p0 3582 ± 2.768
4400
4200
4000
3800
3600
3400
3200
3000

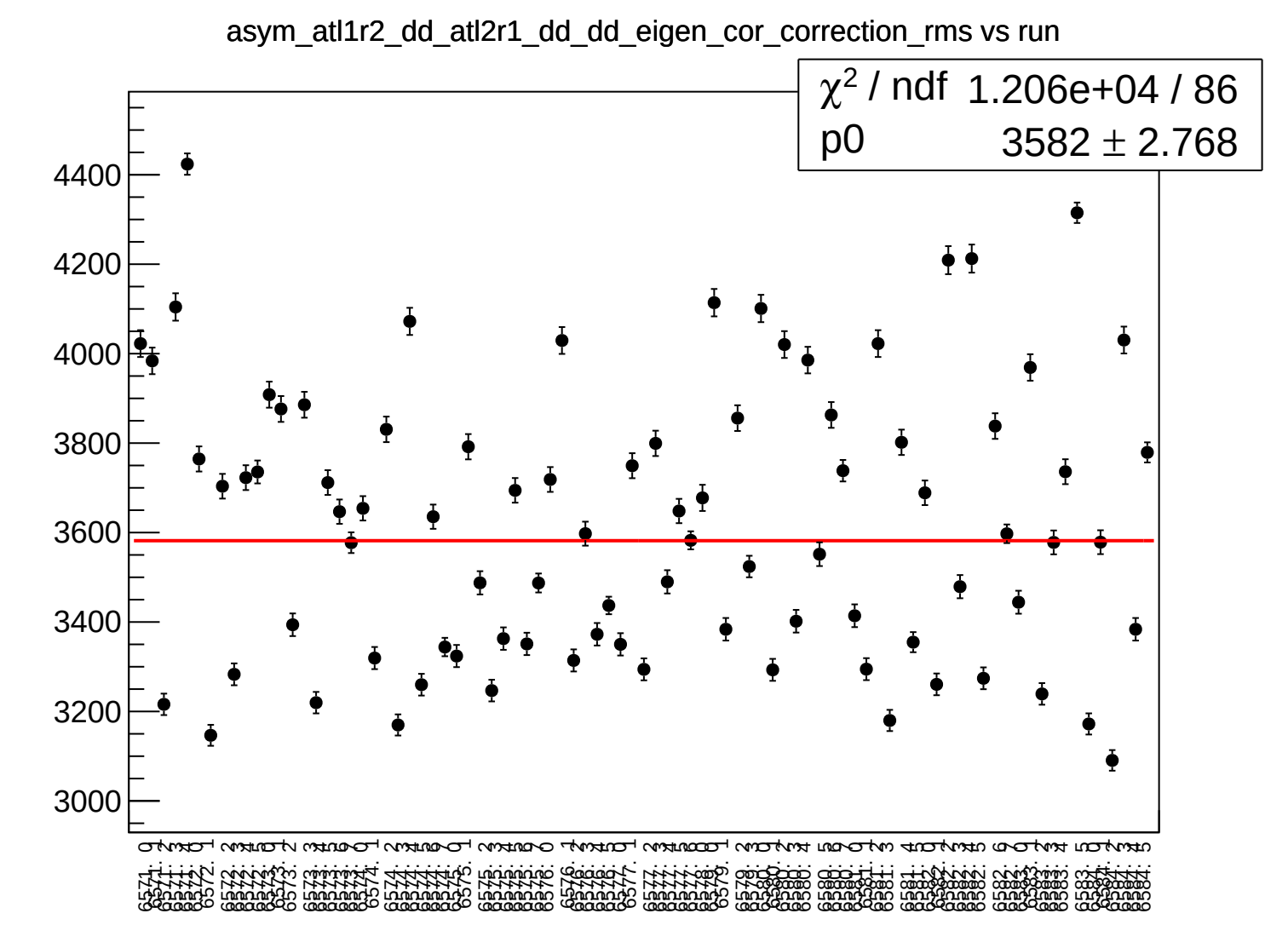

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 94.32 / 86
p0 746 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −98.51
Std Dev 0
3
2
1
0
−1
−2

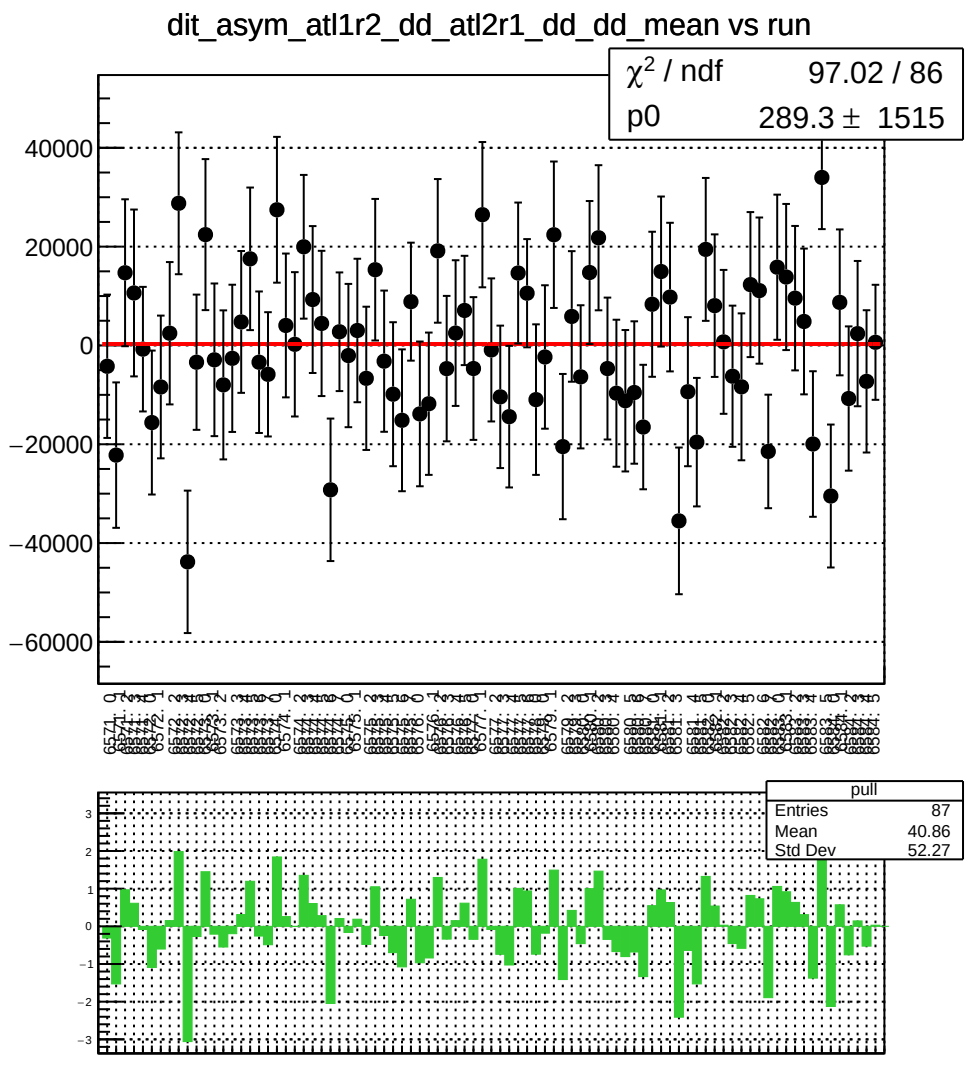

pull1D
Entries 87
Mean −0.007984
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

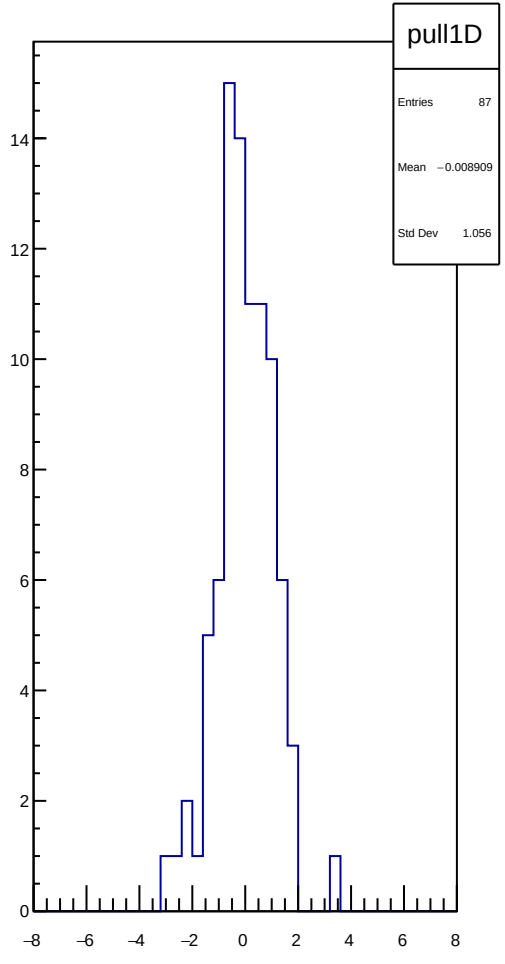

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 496.4 / 86
p0 1328 ± 1.023
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

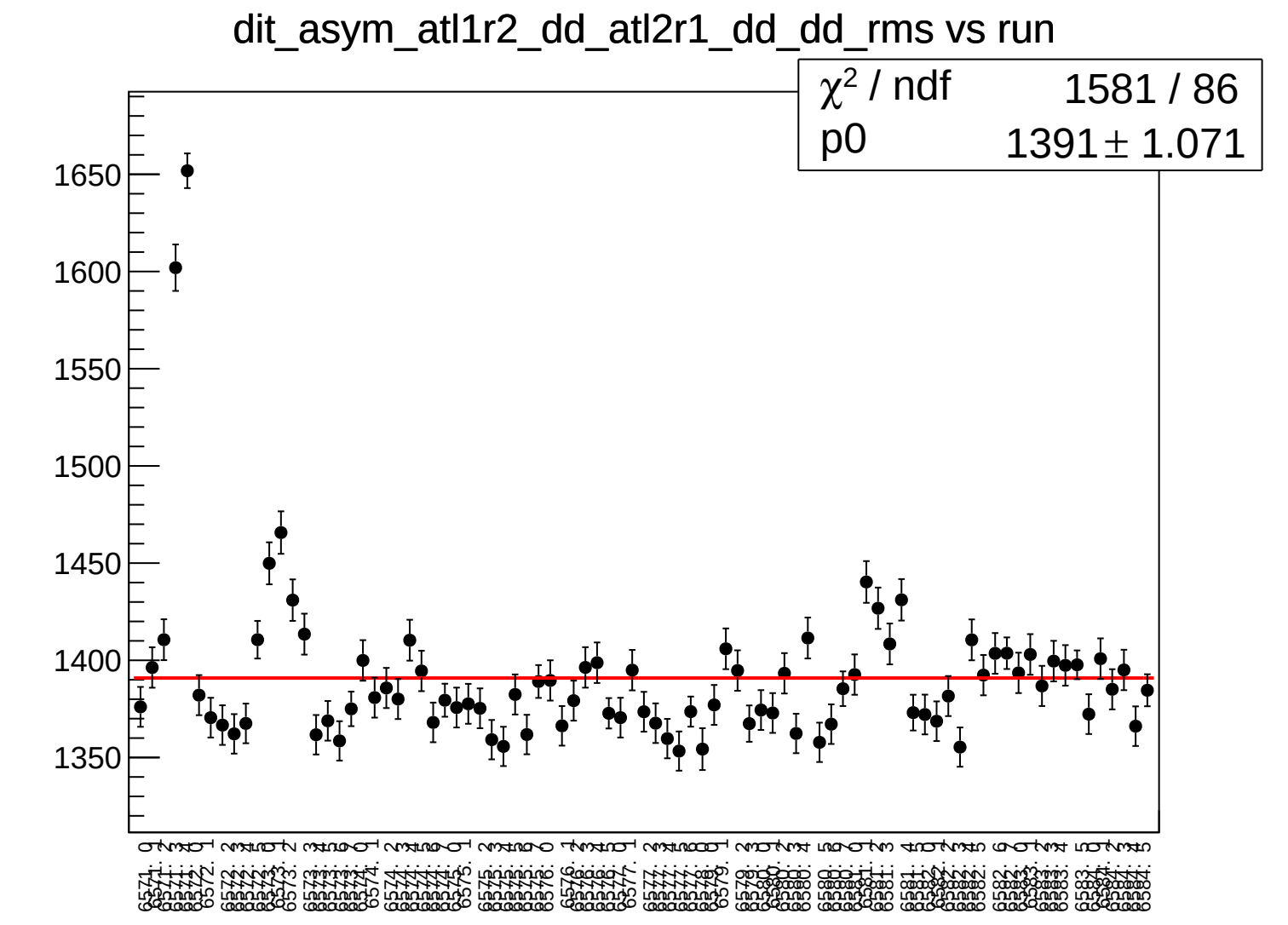

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.75 / 86
p0 −3005 ± 3914
150
100
50
0
−50
−100
pull
Entries 87
Mean −1065
Std Dev 0
3
2
1
0
−1
−2

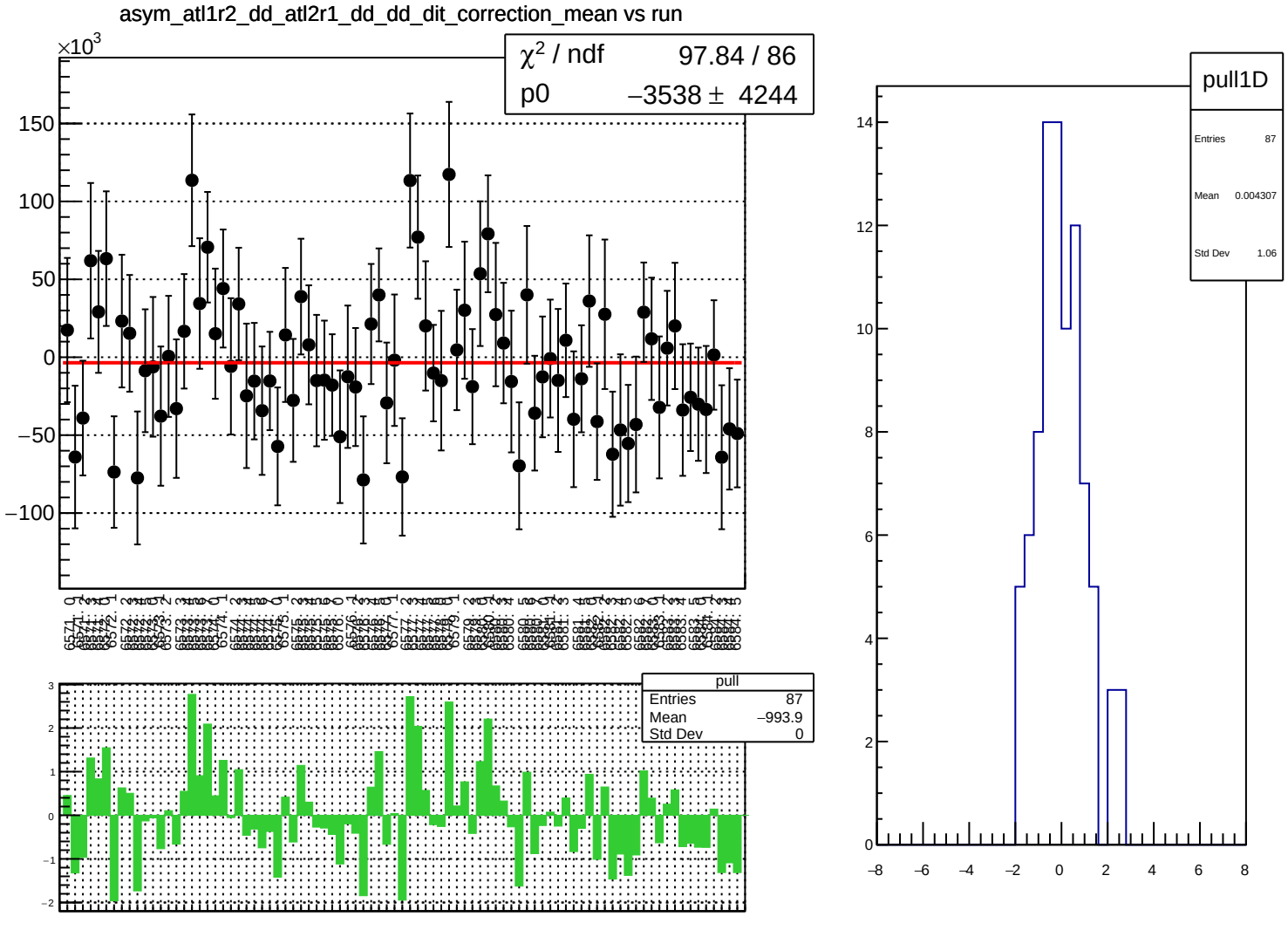

pull1D
Entries 87
Mean 0.004066
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

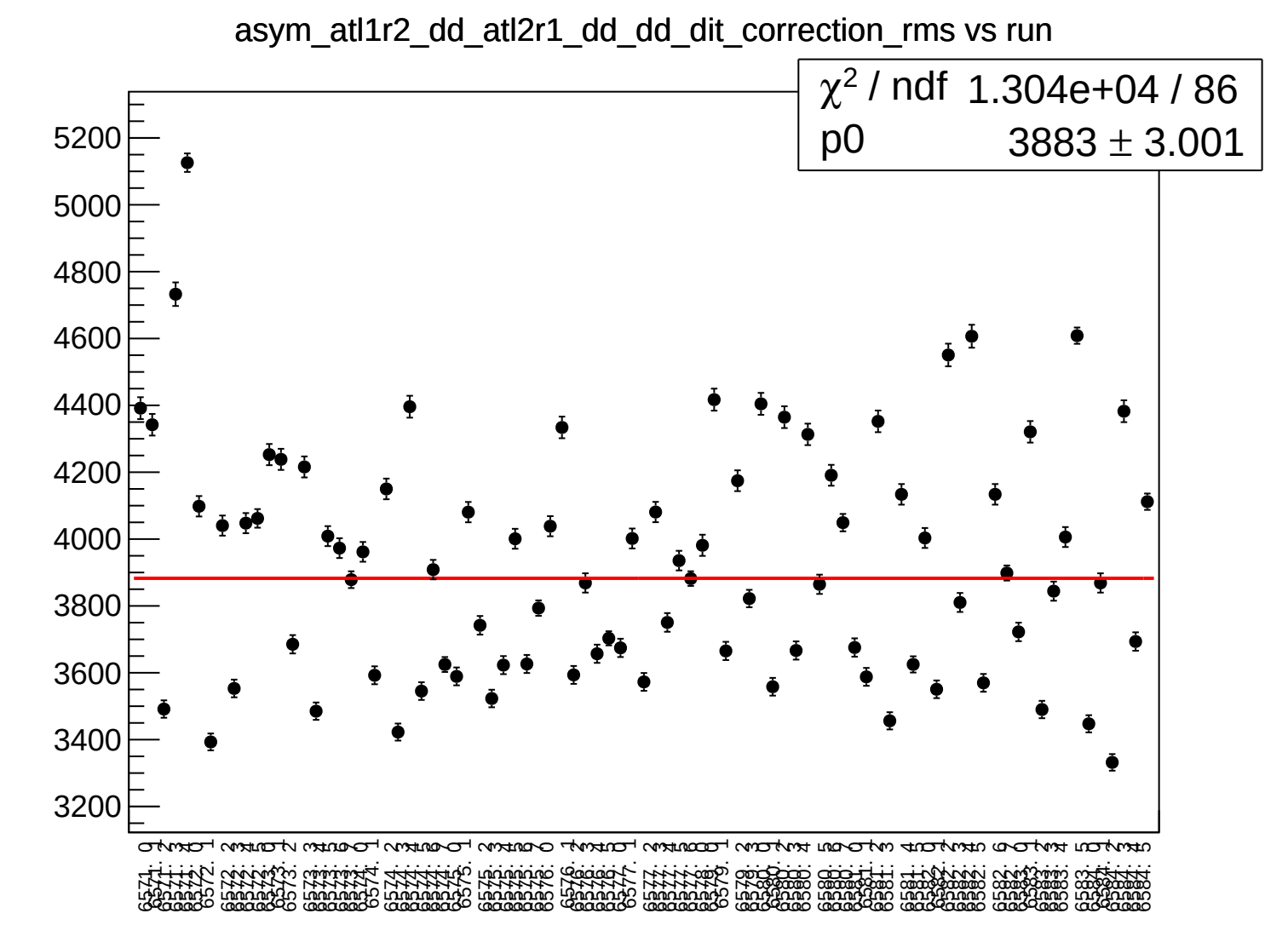

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.206e+04 / 86
p0 3582 ± 2.768
4400
4200
4000
3800
3600
3400
3200
3000

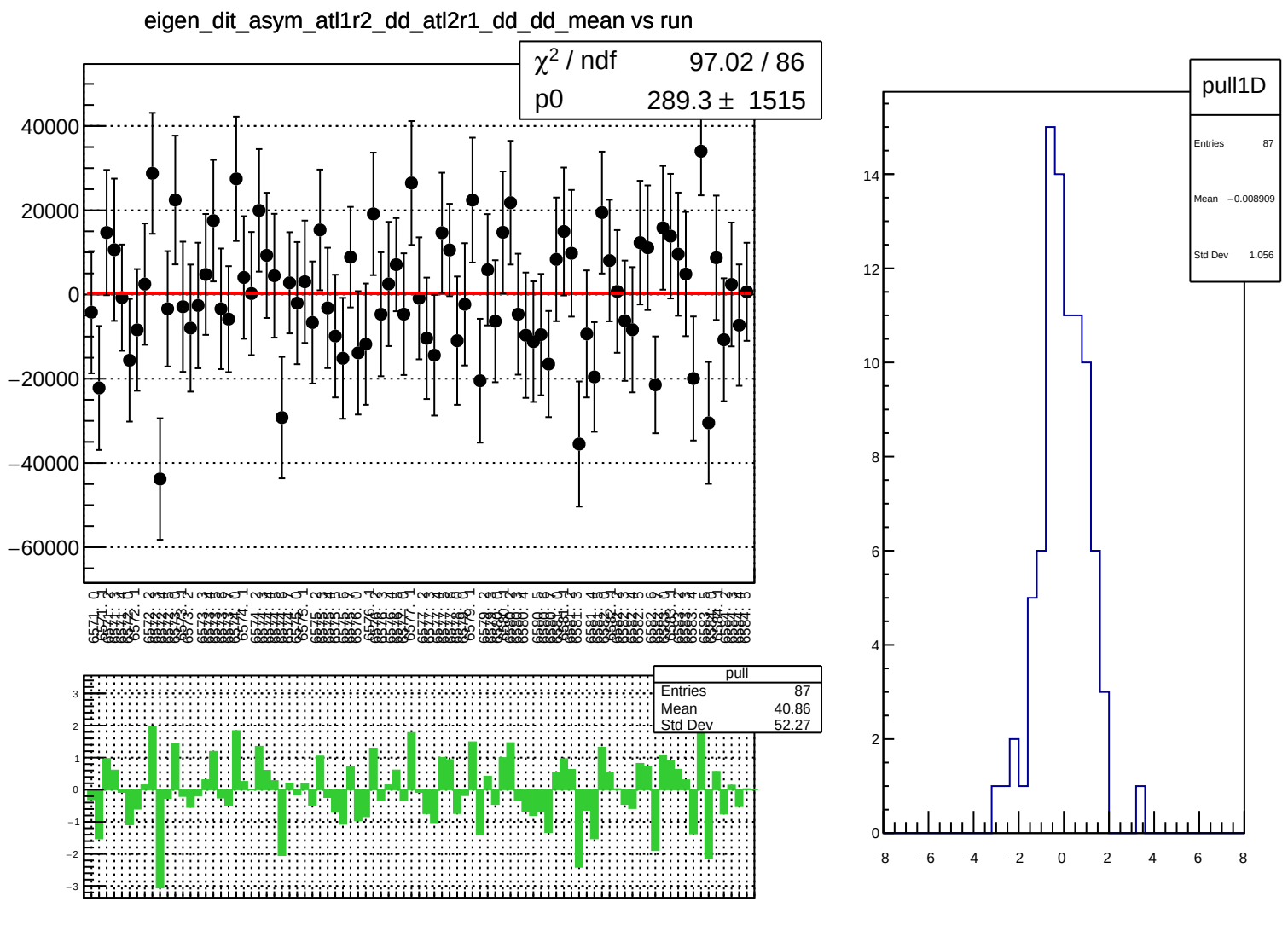

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 97.02 / 86
p0 289.3 ± 1515
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 40.86
Std Dev 52.27
3
2
1
0
−1
−2
−3

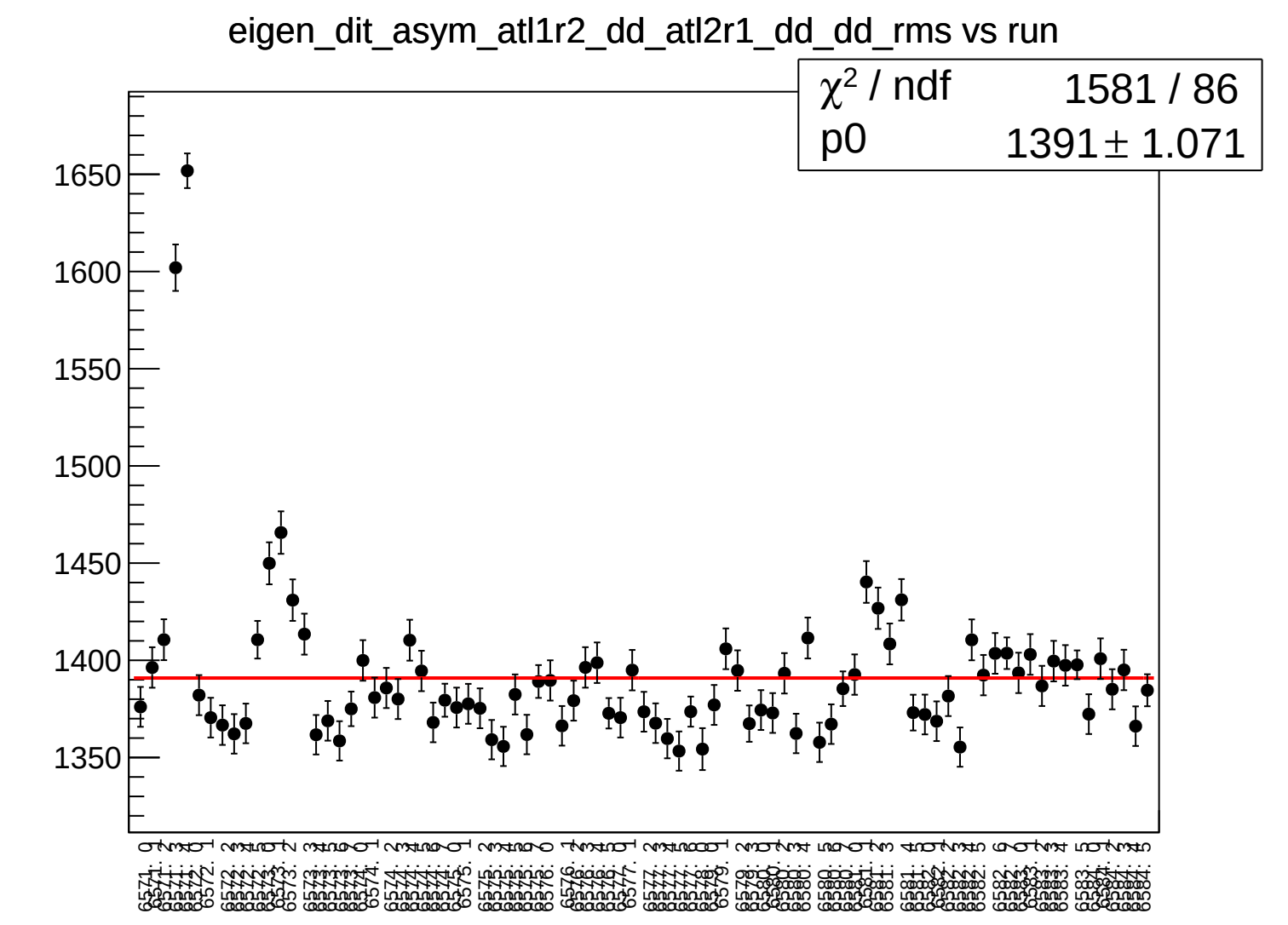

pull1D
Entries 87
Mean −0.008909
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

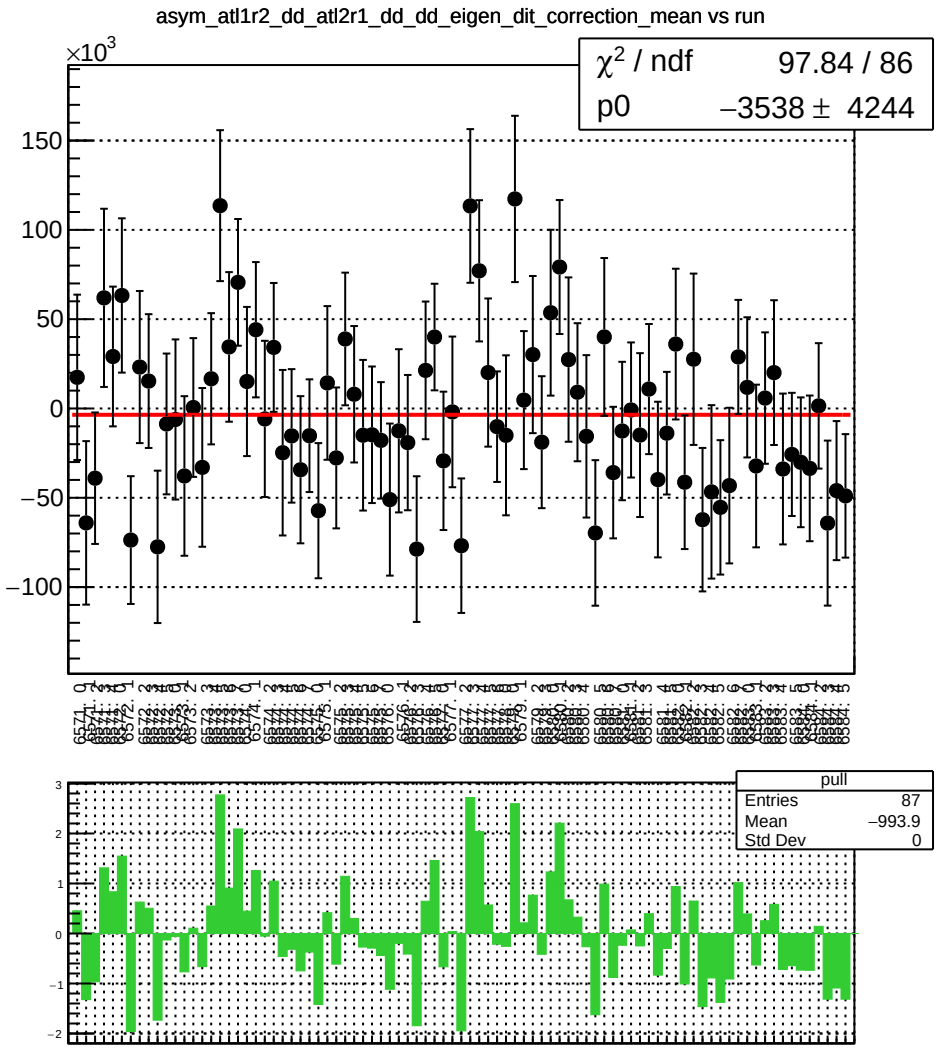

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1581 / 86
p0 1391 ± 1.071
1650
1600
1550
1500
1450
1400
1350

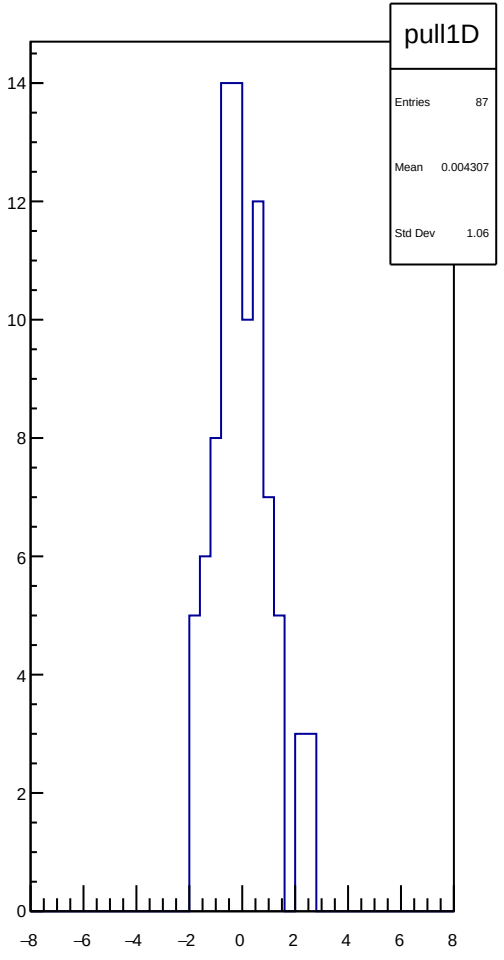

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.84 / 86
p0 −3538 ± 4244
150
100
50
0
−50
−100
pull
Entries 87
Mean −993.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.004307
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

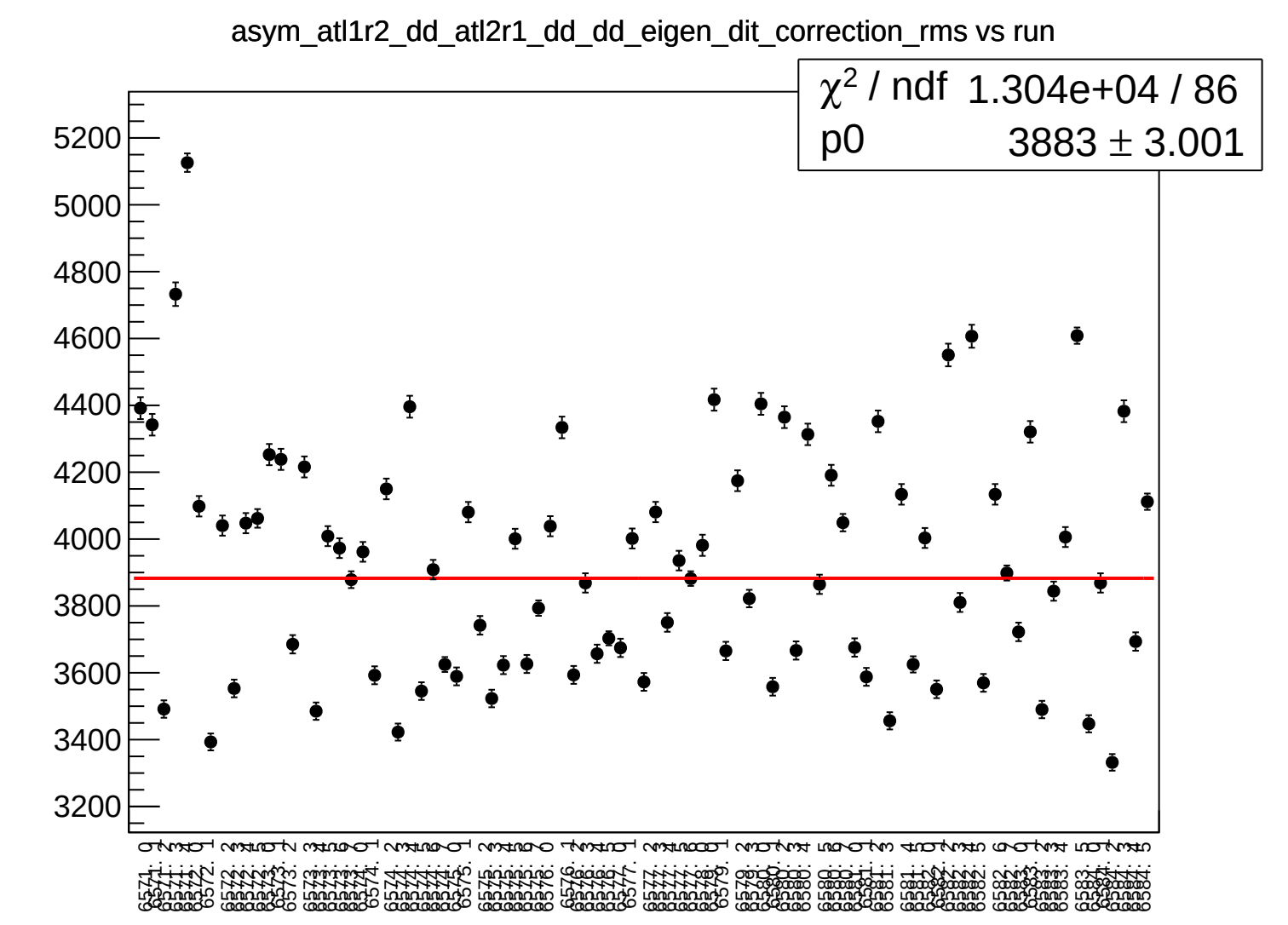

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.304e+04 / 86
p0 3883 ± 3.001
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

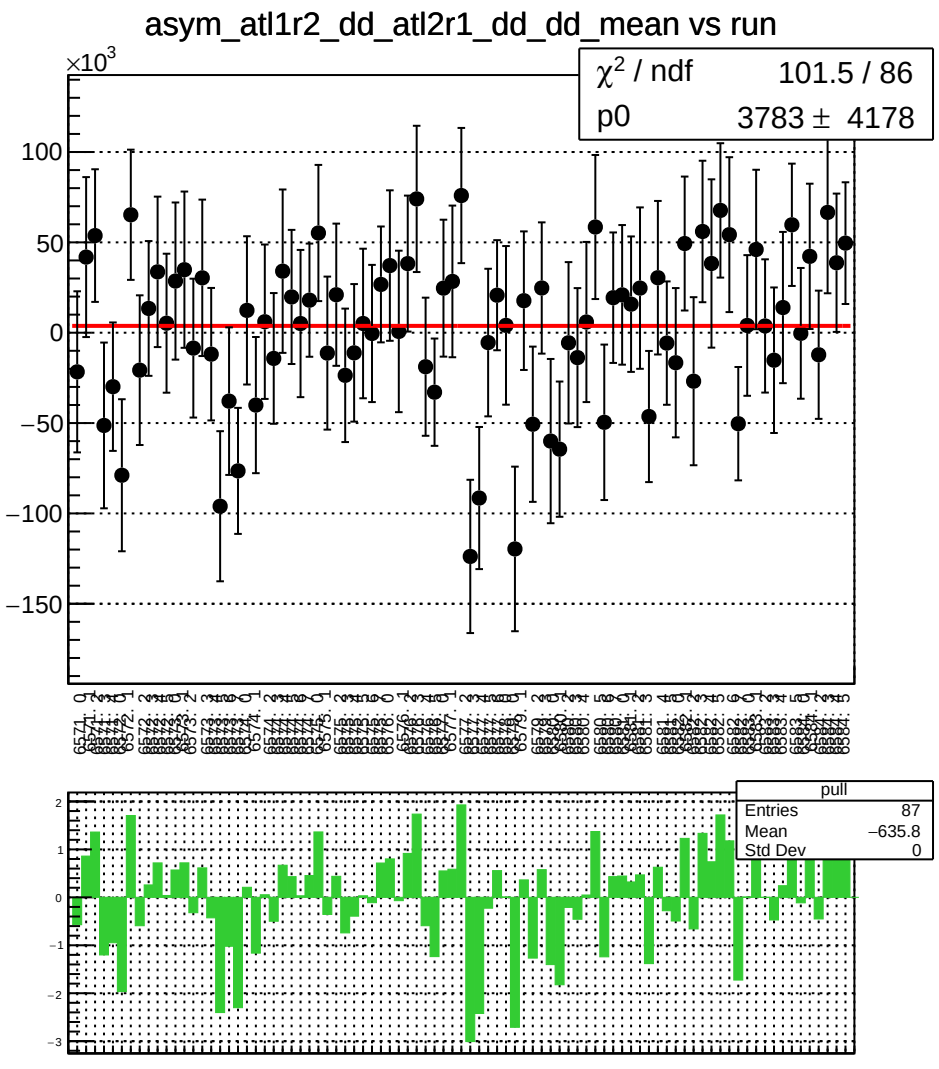

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 97.02 / 86
p0 289.3 ± 1515
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 40.86
Std Dev 52.27
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.008909
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

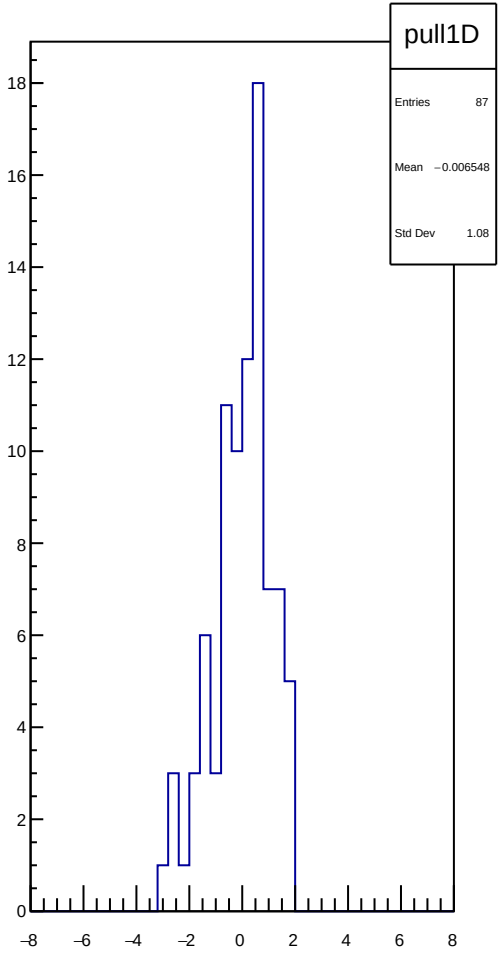

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1581 / 86
p0 1391 ± 1.071
1650
1600
1550
1500
1450
1400
1350

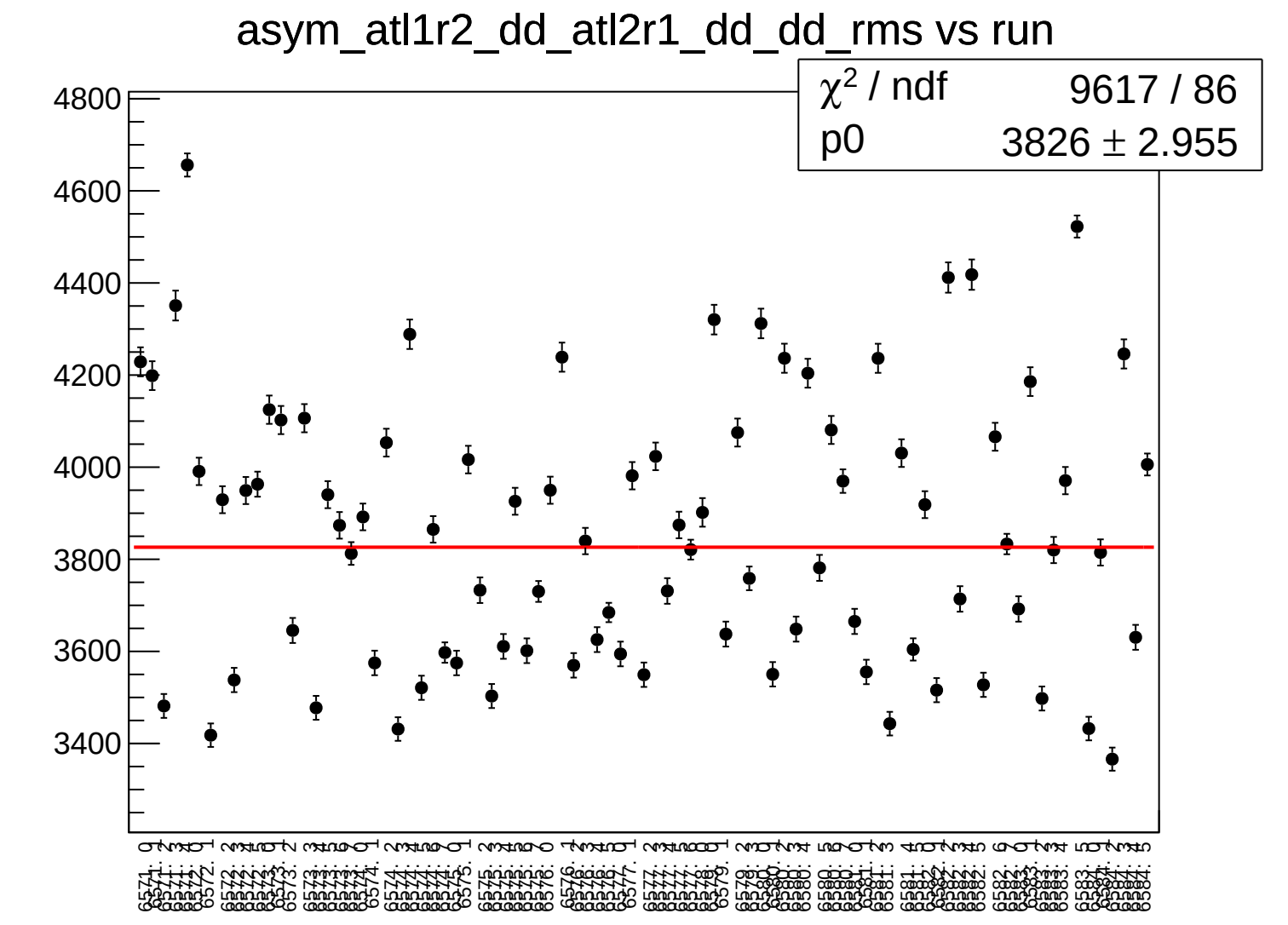

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.84 / 86
p0 −3538 ± 4244
150
100
50
0
−50
−100
pull
Entries 87
Mean −993.9
Std Dev 0
3
2
1
0
−1
−2

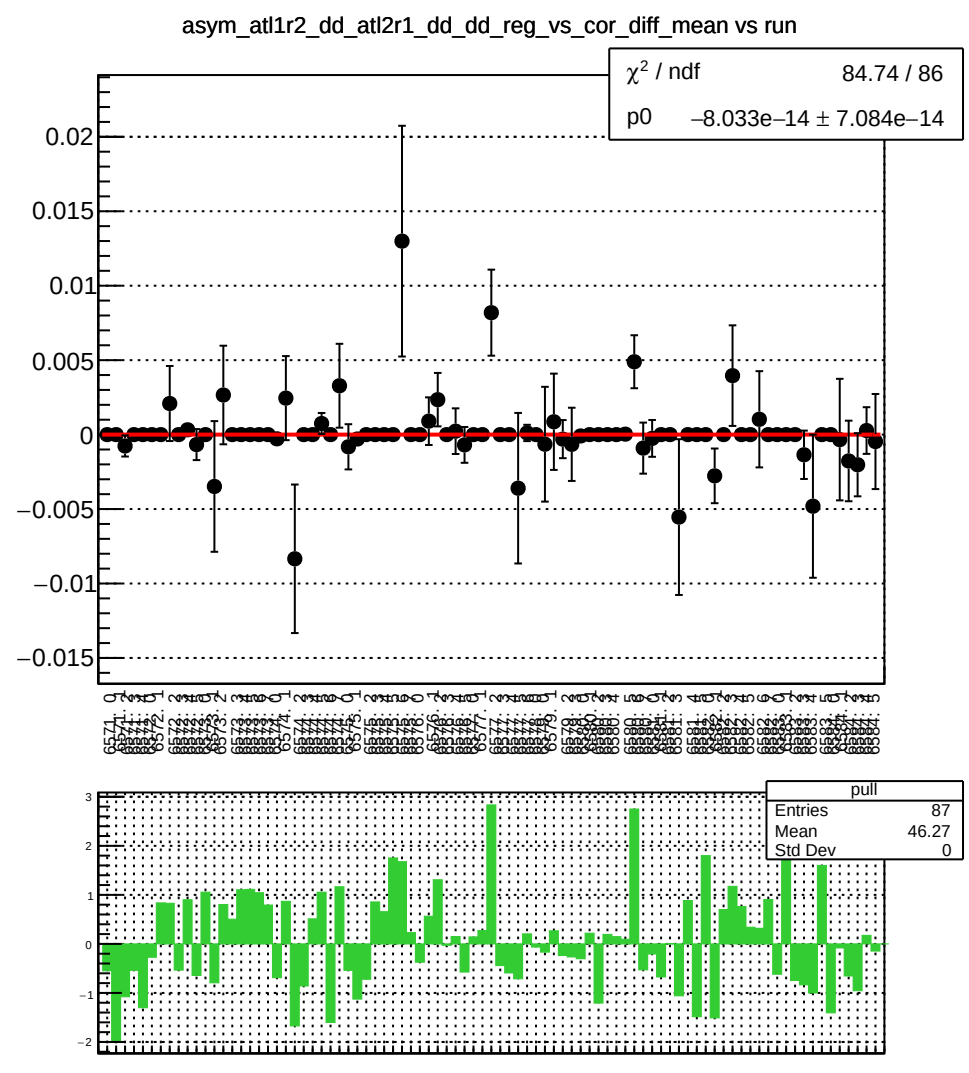

pull1D
Entries 87
Mean 0.004307
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

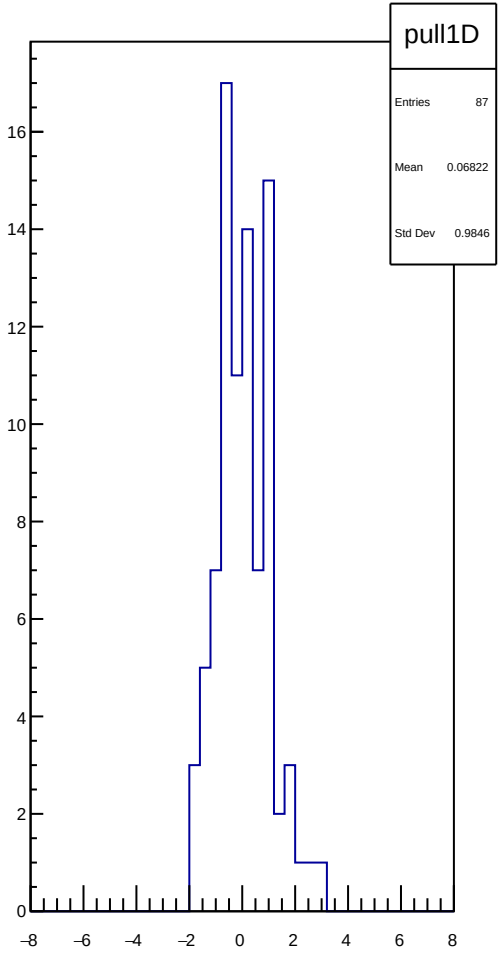

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.304e+04 / 86
p0 3883 ± 3.001
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

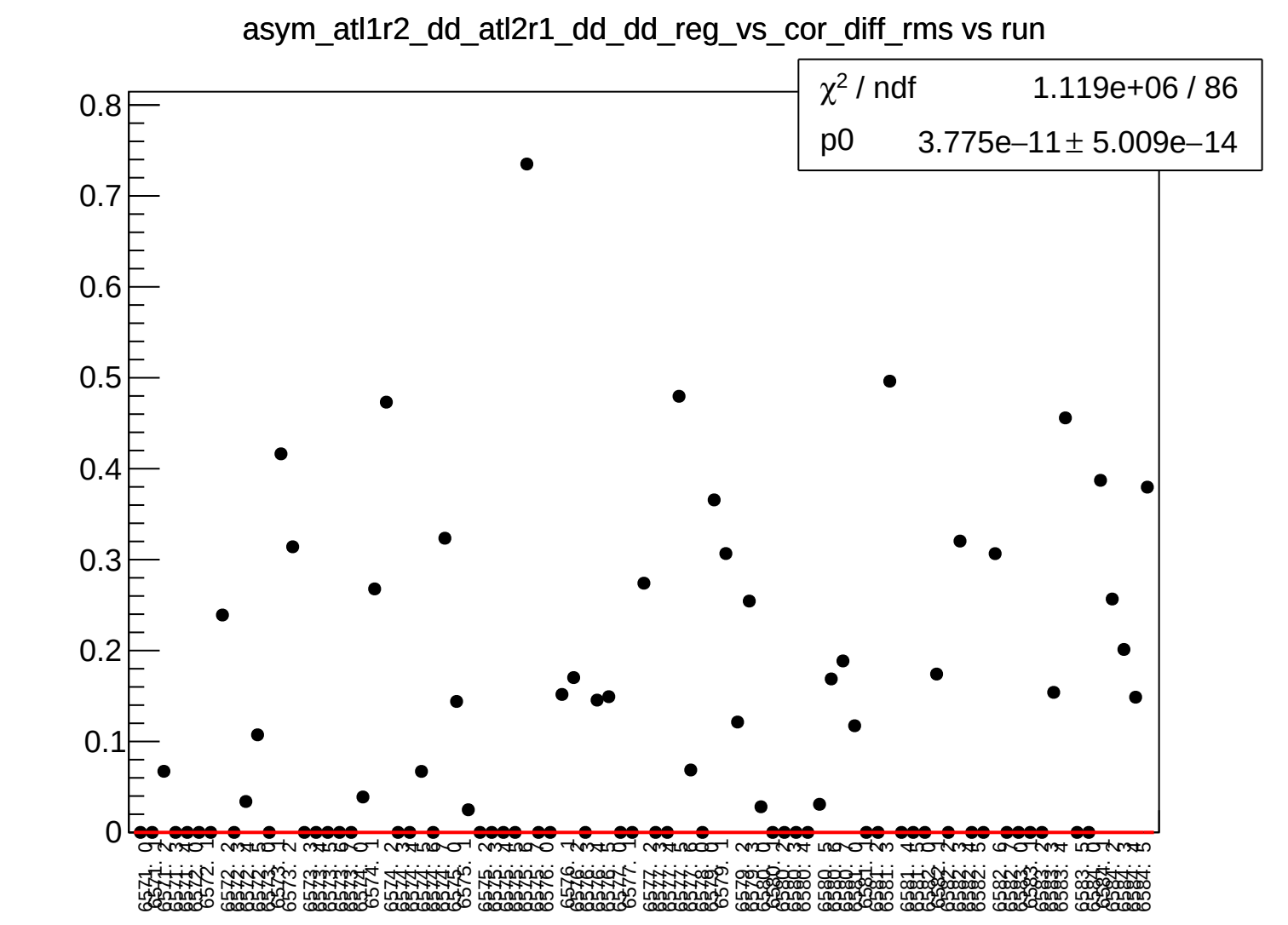

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 101.5 / 86
p0 3783 ± 4178
100
50
0
−50
−100
−150
pull
Entries 87
Mean −635.8
Std Dev 0
2
1
0
−1
−2
−3

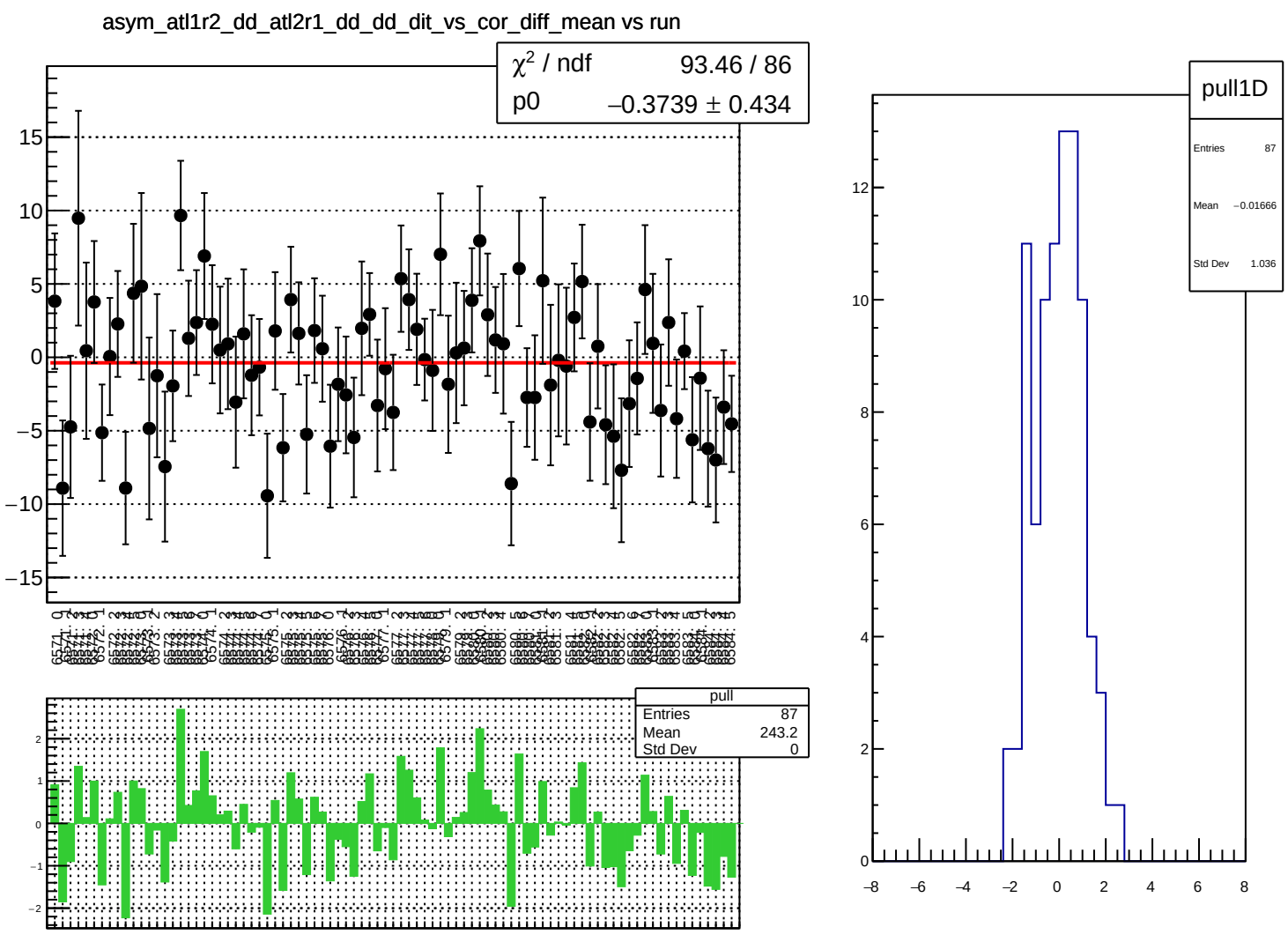

pull1D
Entries 87
Mean −0.006548
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

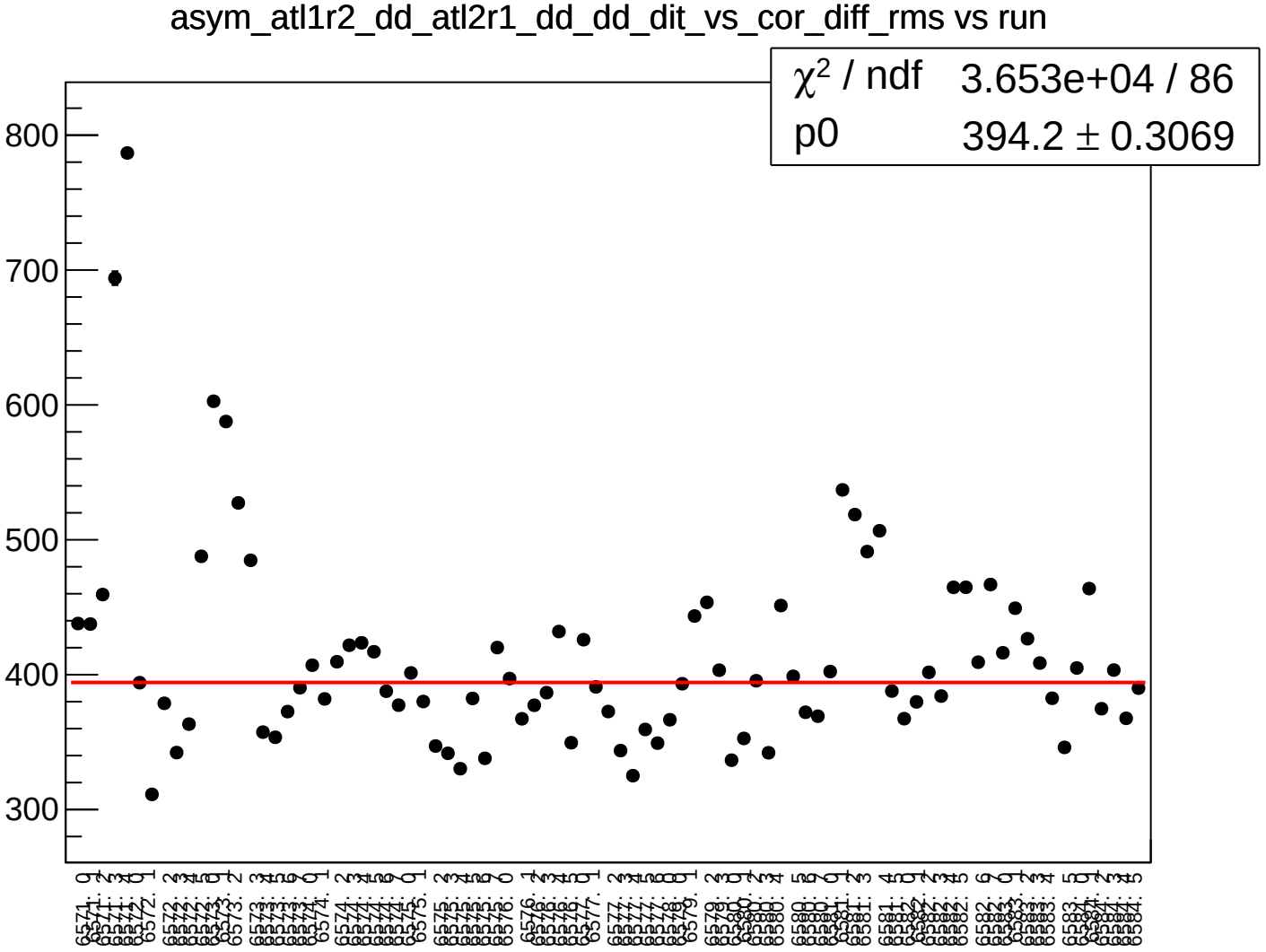

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 9617 / 86
p0 3826 ± 2.955
4800
4600
4400
4200
4000
3800
3600
3400

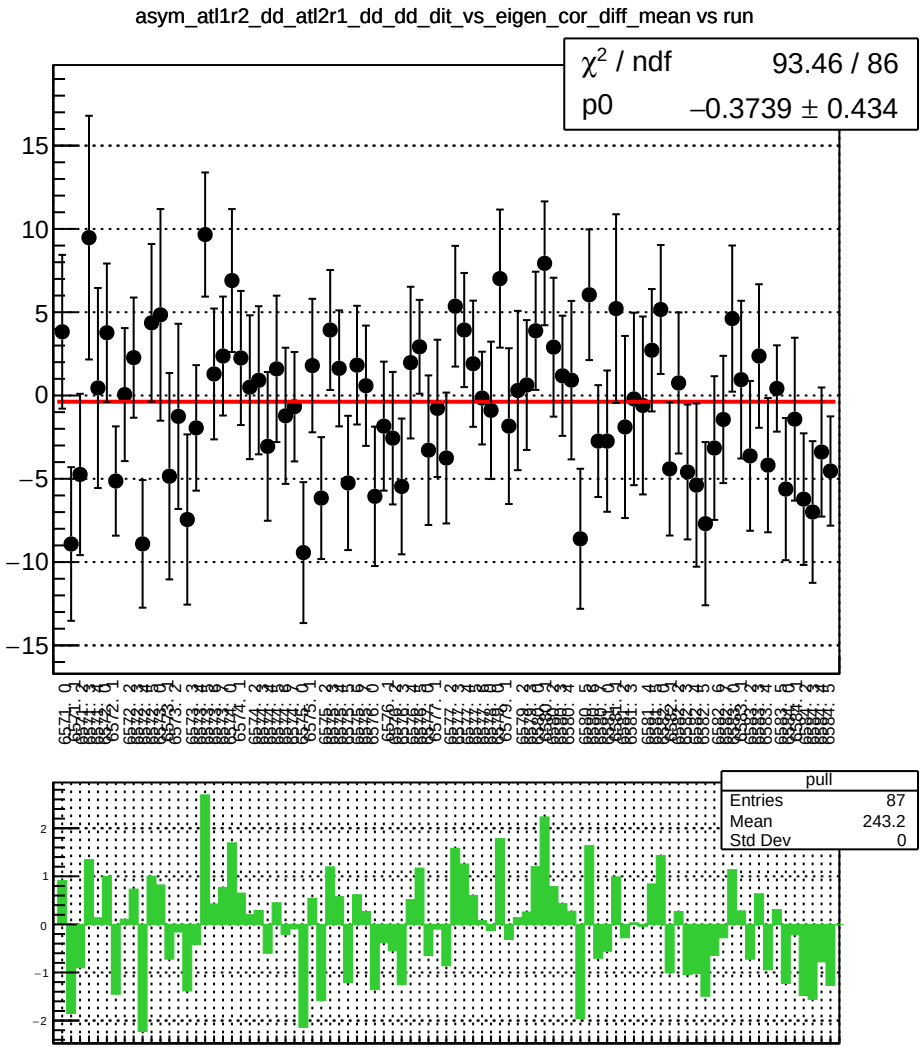

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.74 / 86
p0 −8.033e−14 ± 7.084e−14
pull
Entries 87
Mean 46.27
Std Dev 0

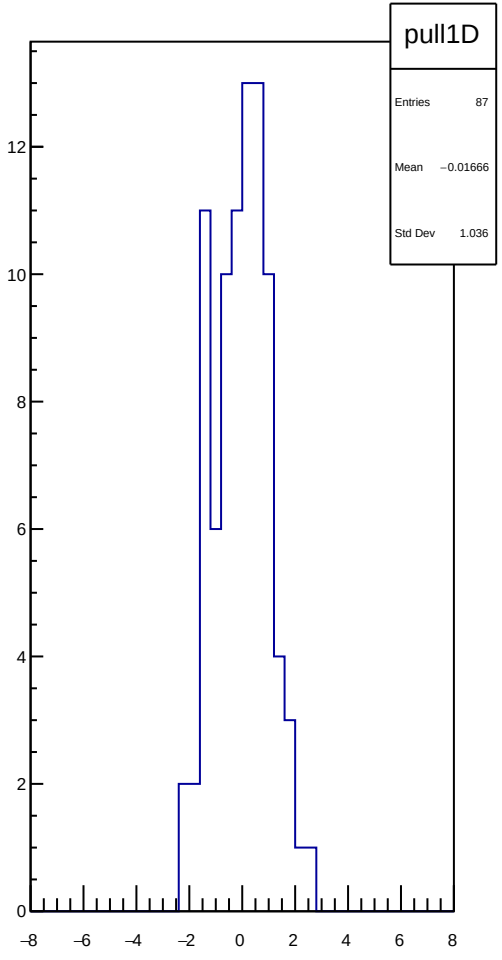

pull1D
Entries 87
Mean 0.06822
Std Dev 0.9846

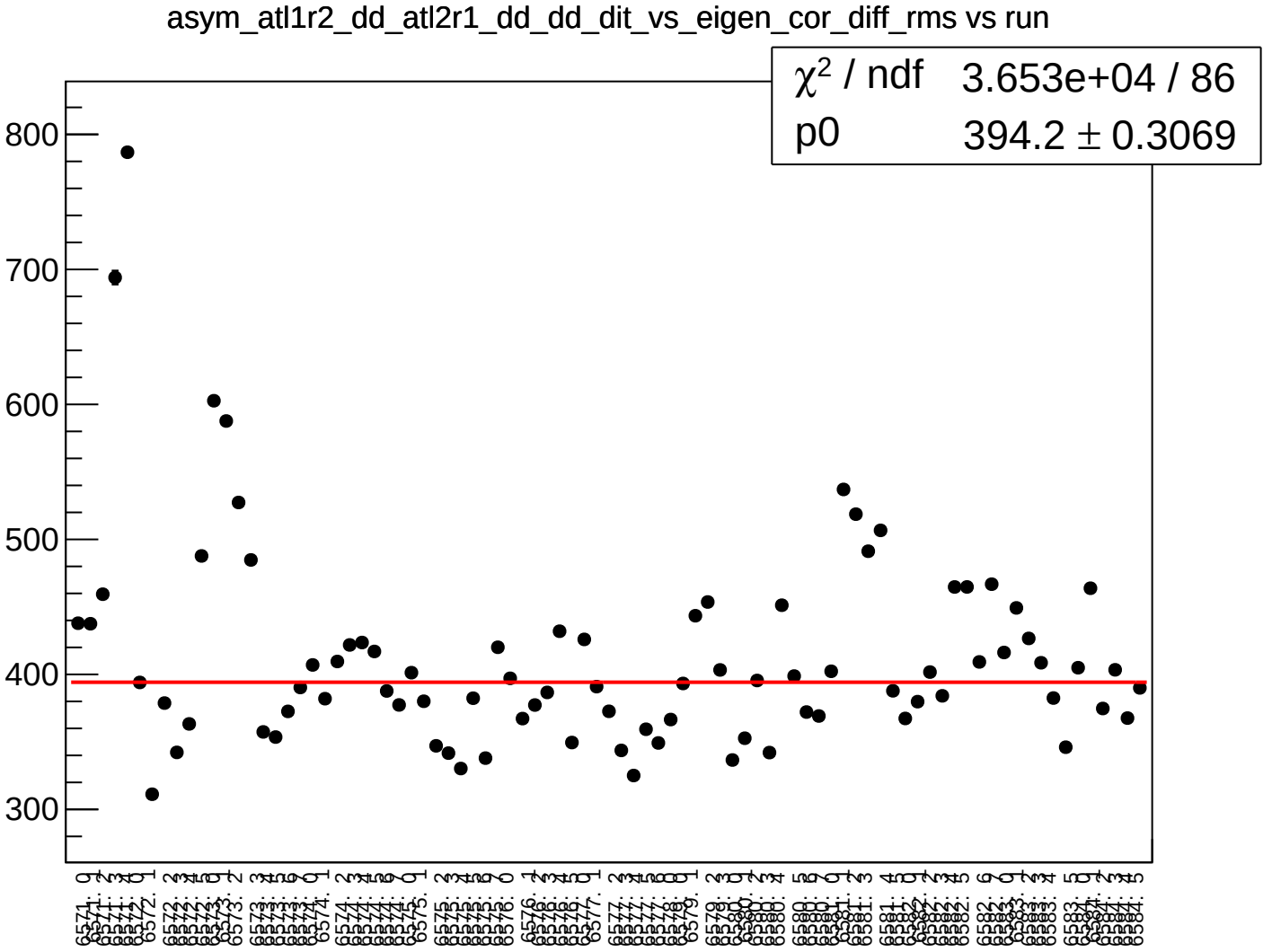

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.119e+06 / 86
p0 3.775e−11 ± 5.009e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

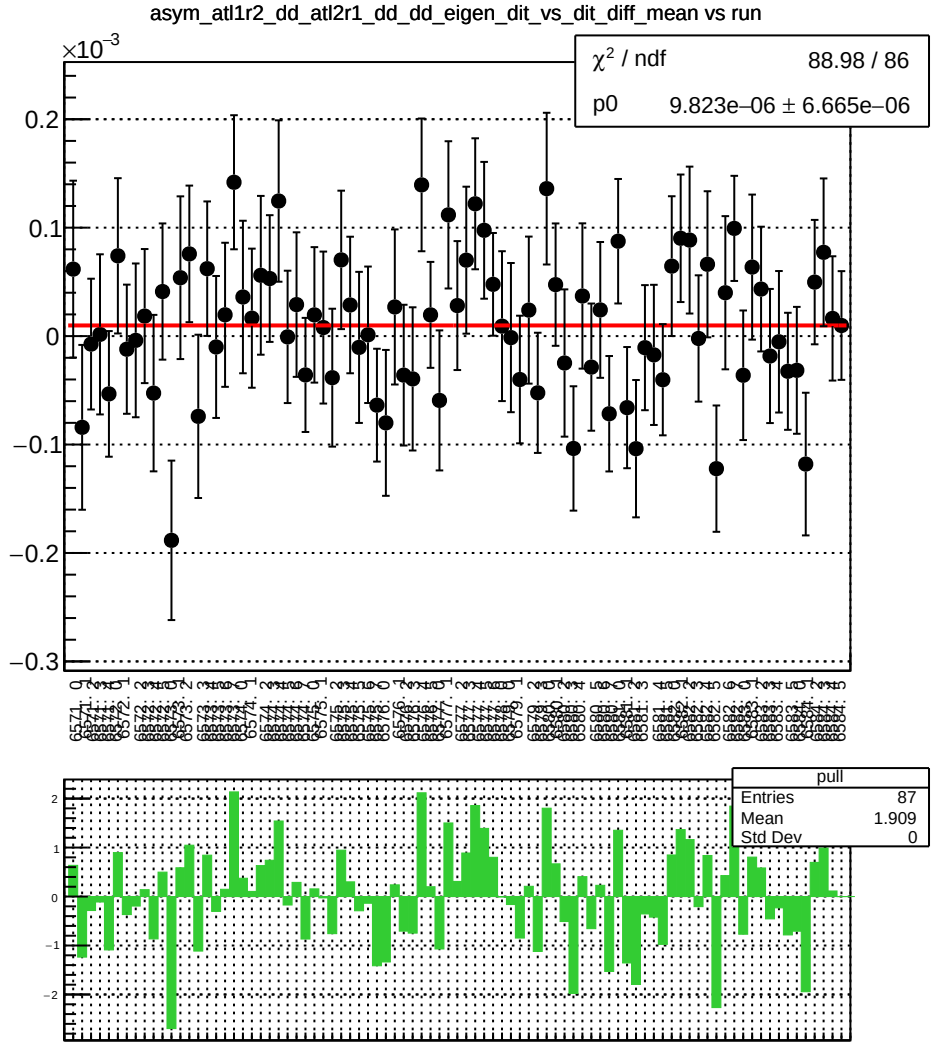

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0
pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

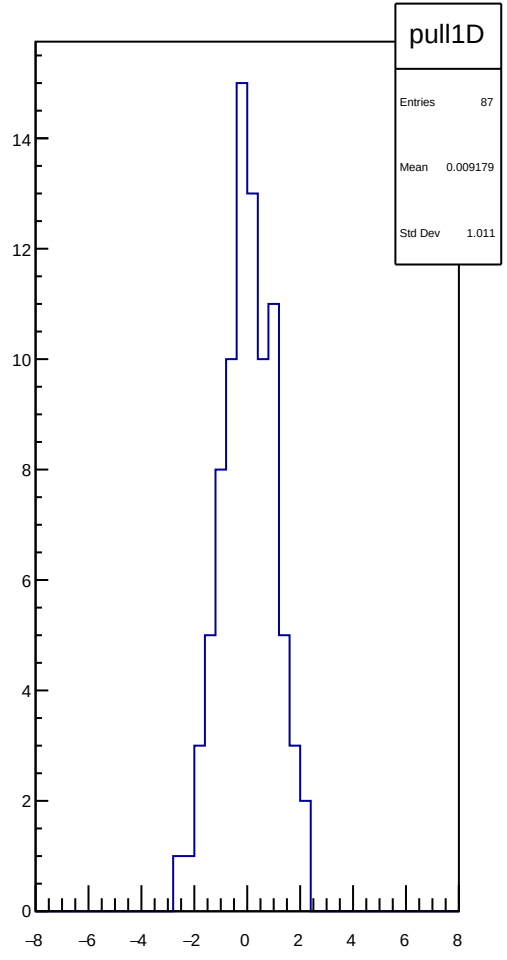

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

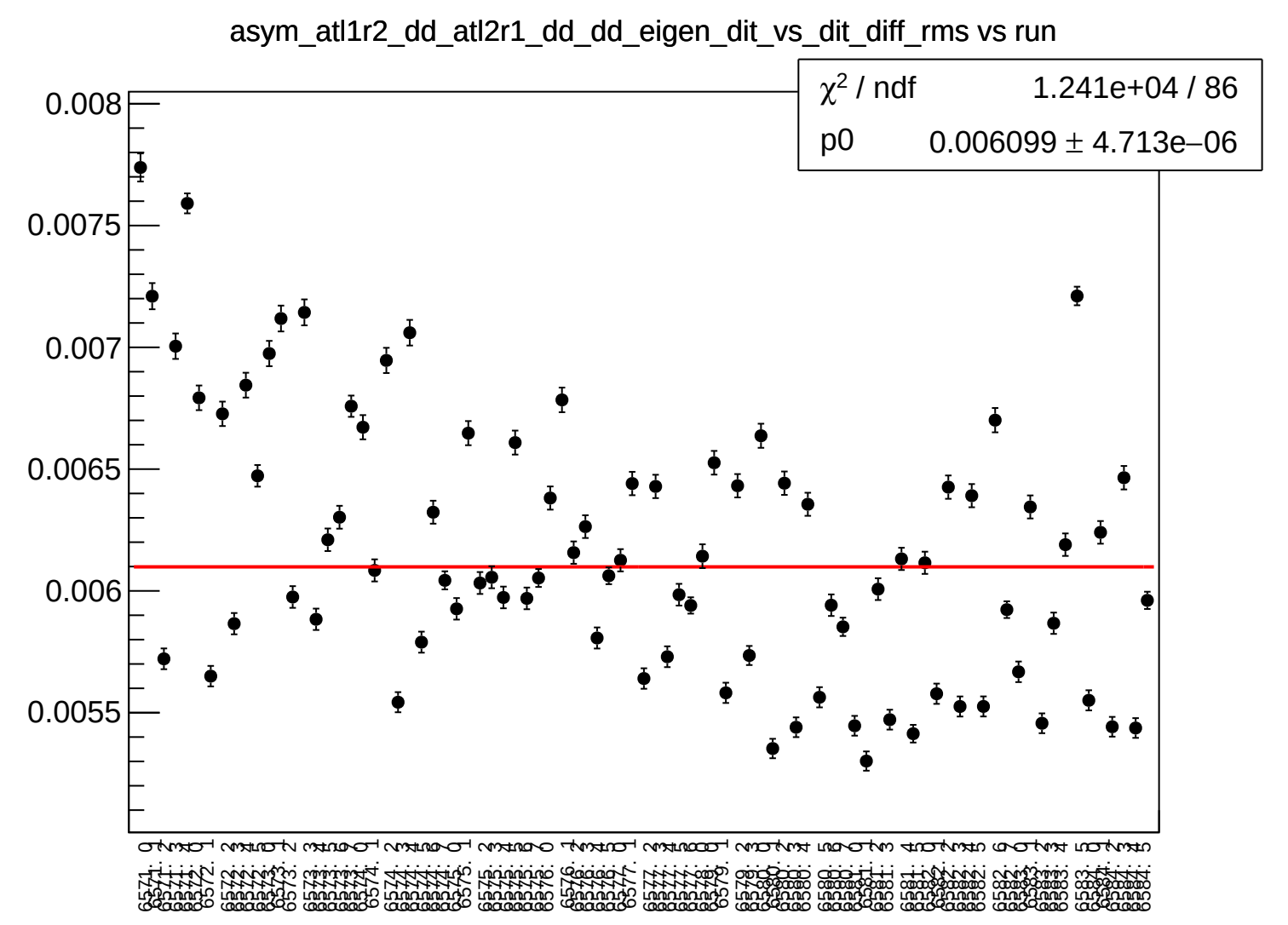

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0

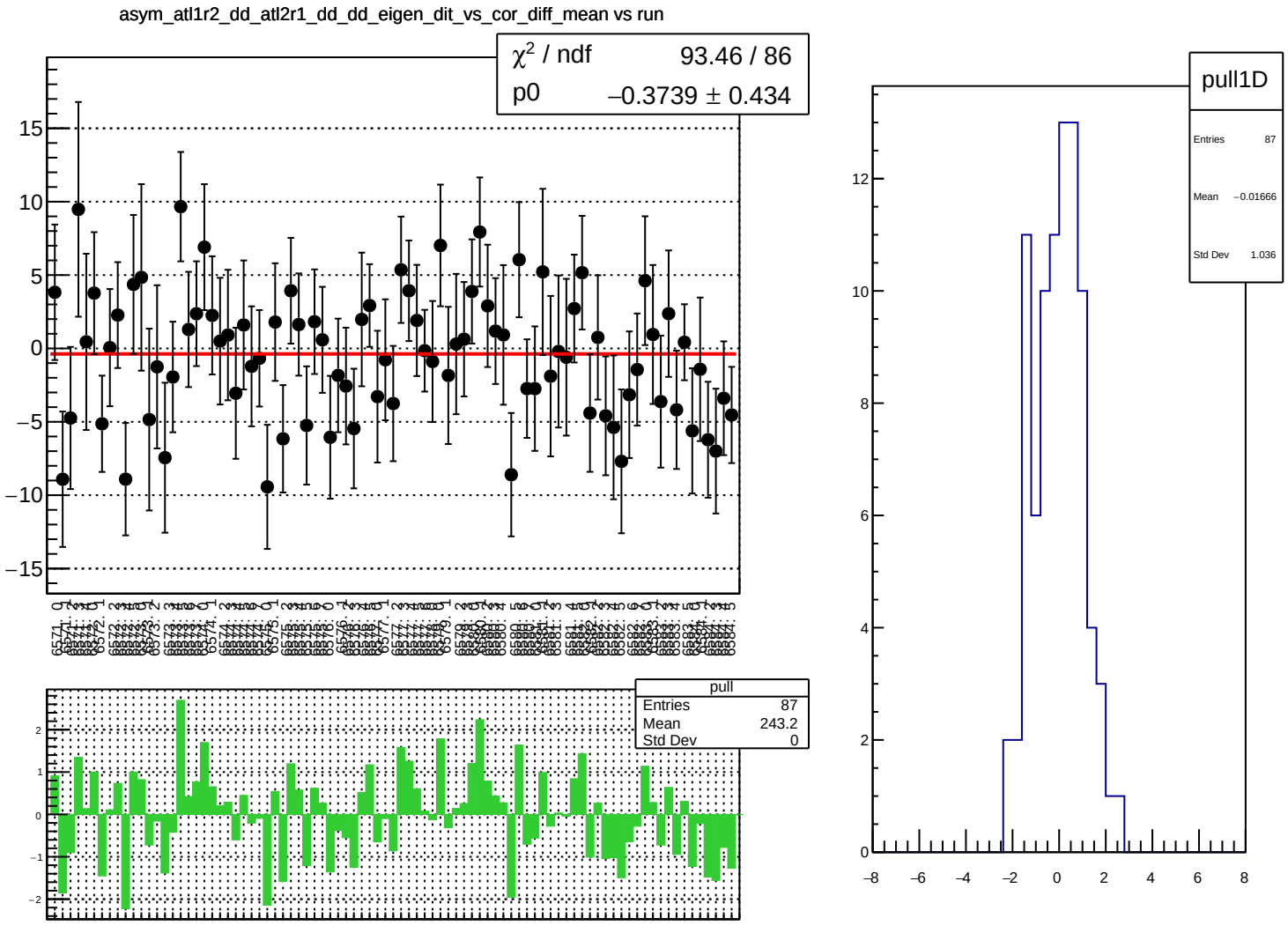

pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

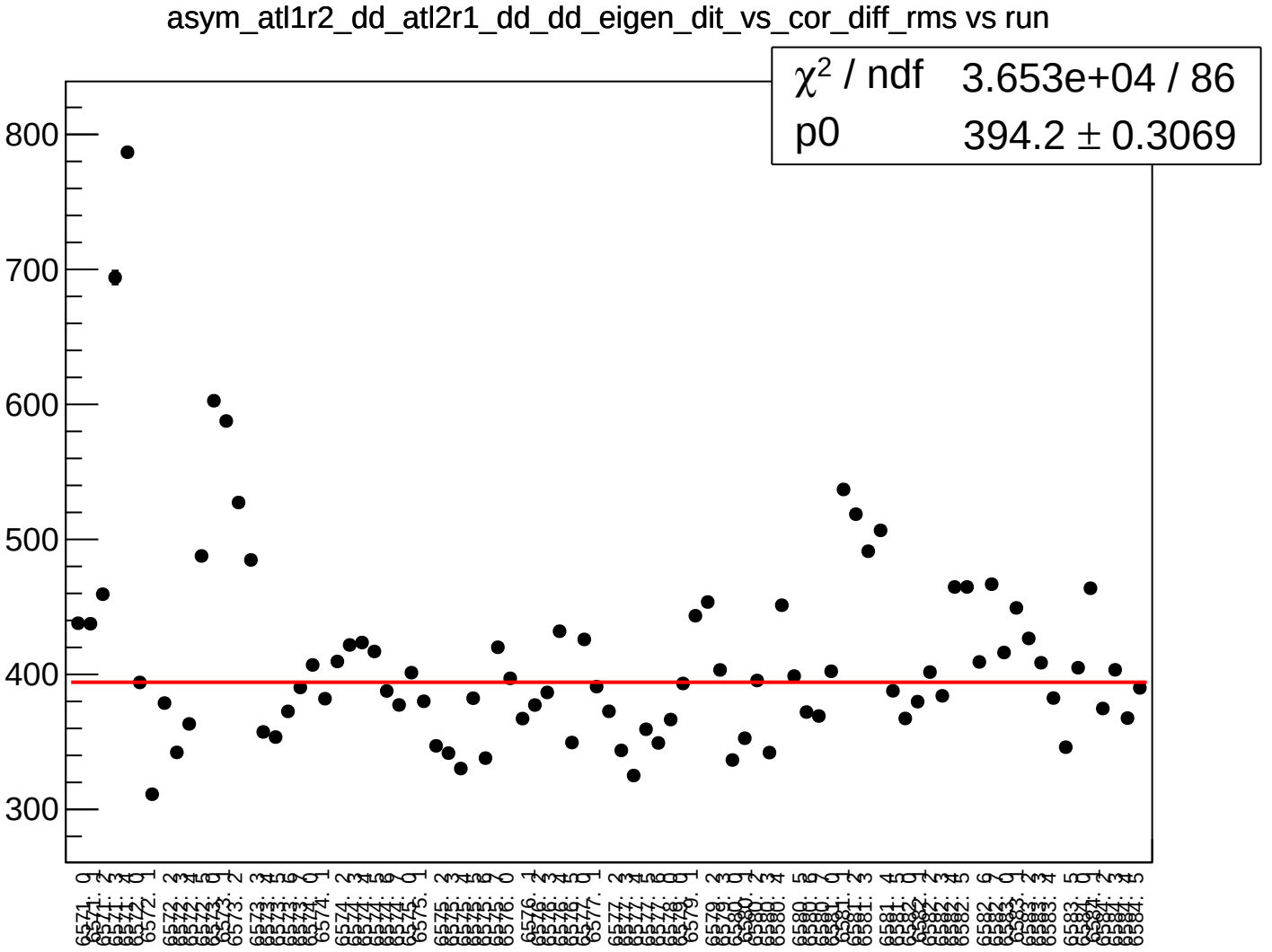

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

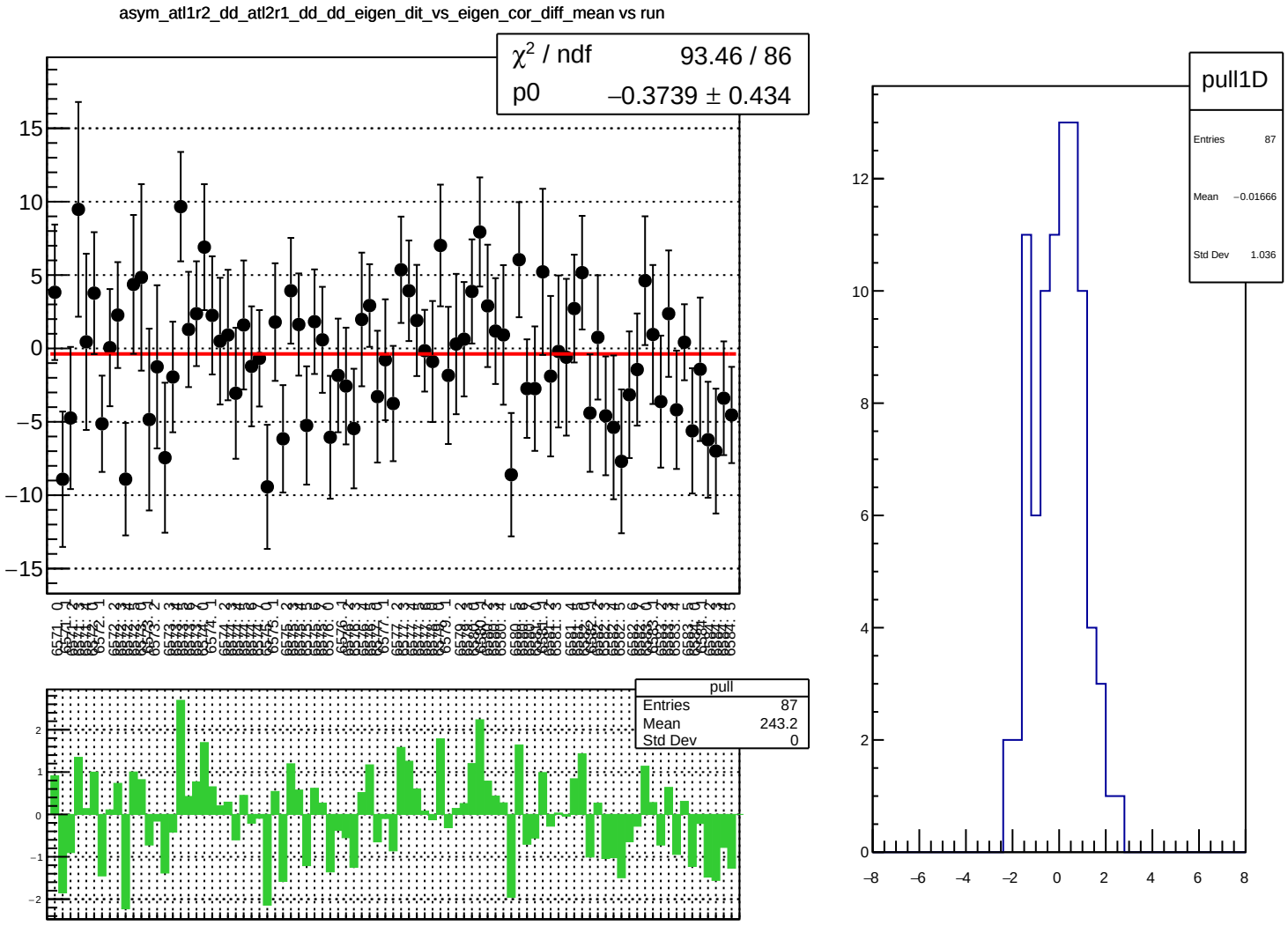

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.98 / 86
p0 9.823e−06 ± 6.665e−06
pull
Entries 87
Mean 1.909
Std Dev 0

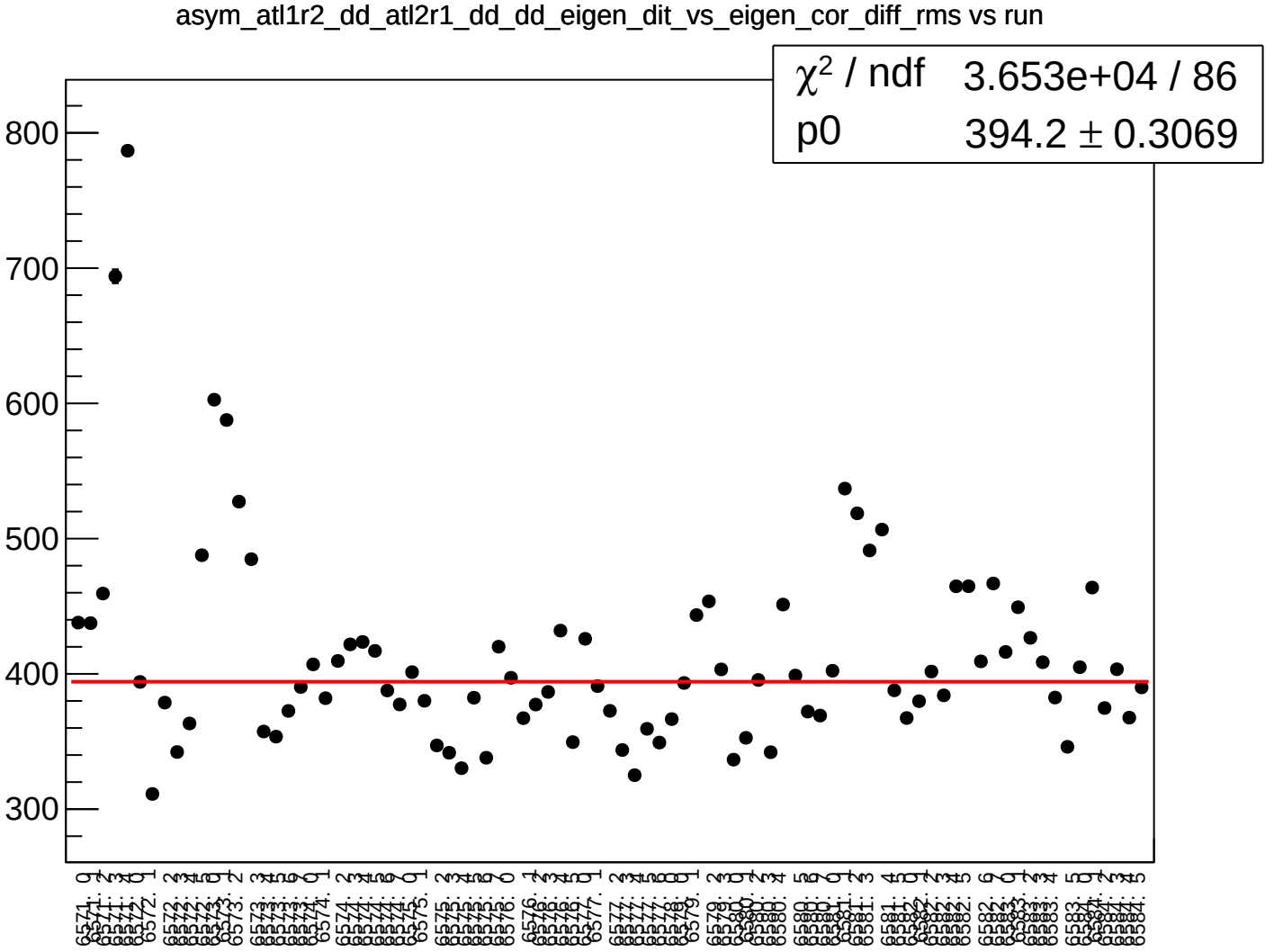

pull1D
Entries 87
Mean 0.009179
Std Dev 1.011

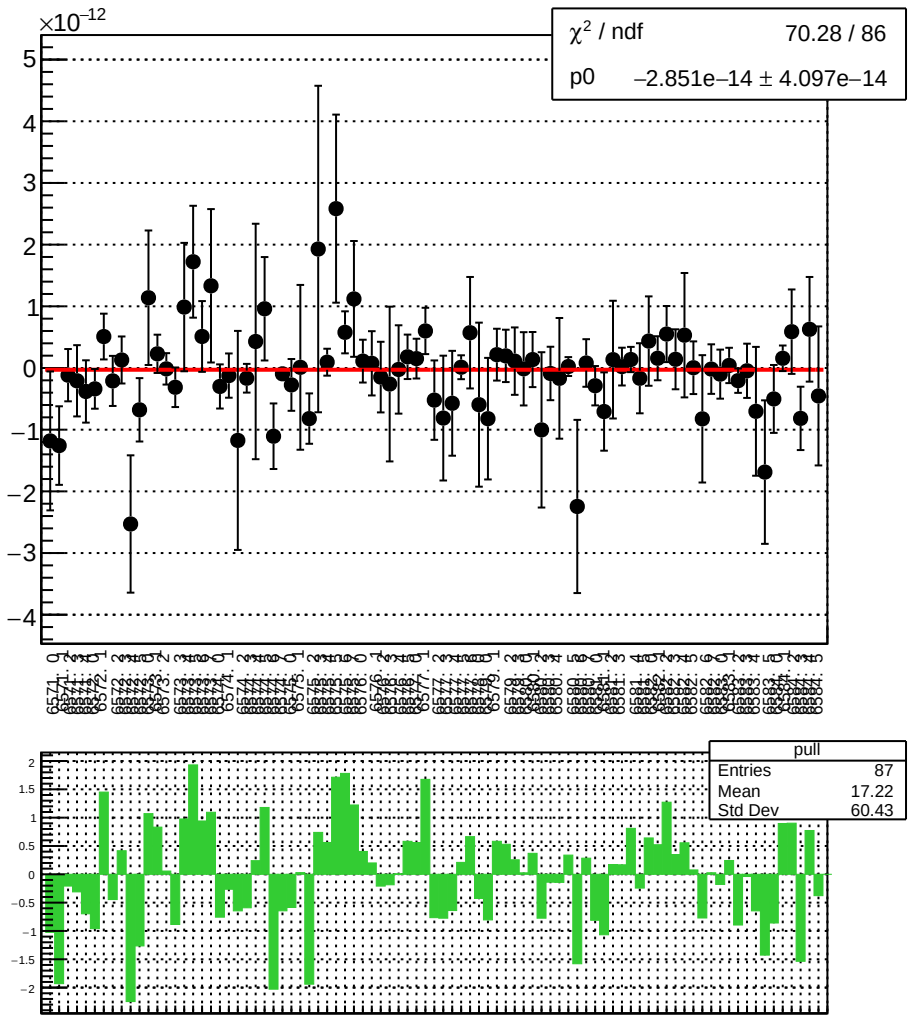

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.241e+04 / 86
p0 0.006099 ± 4.713e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

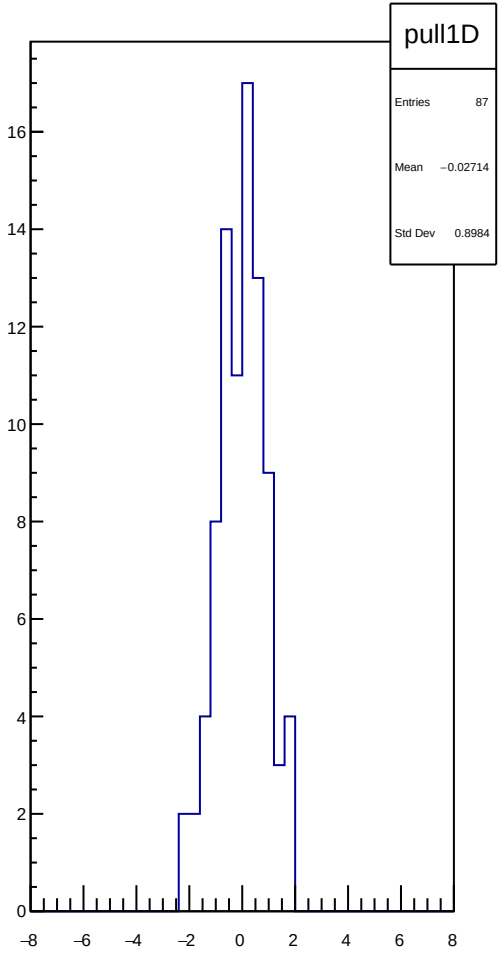

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0
pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

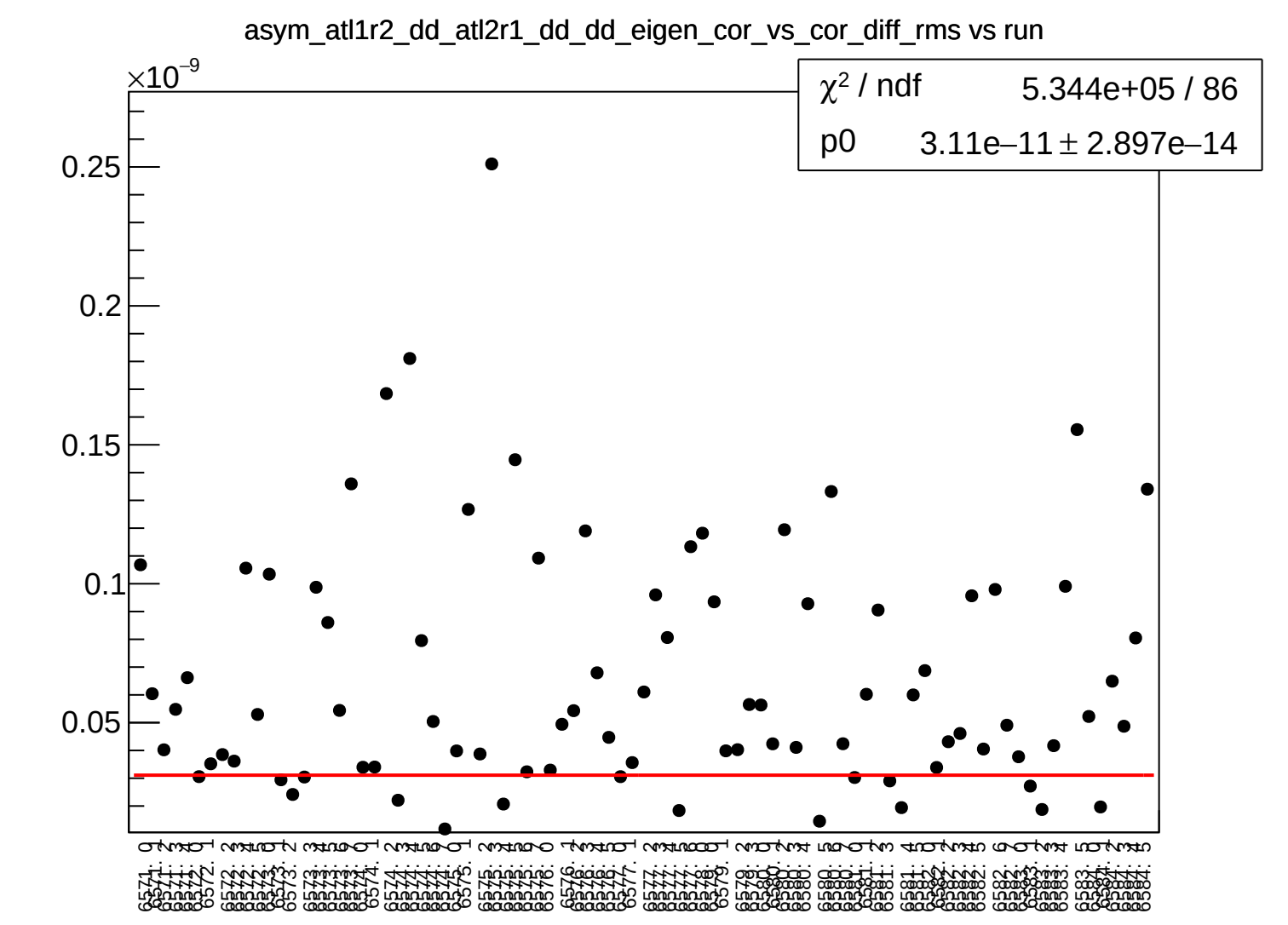

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

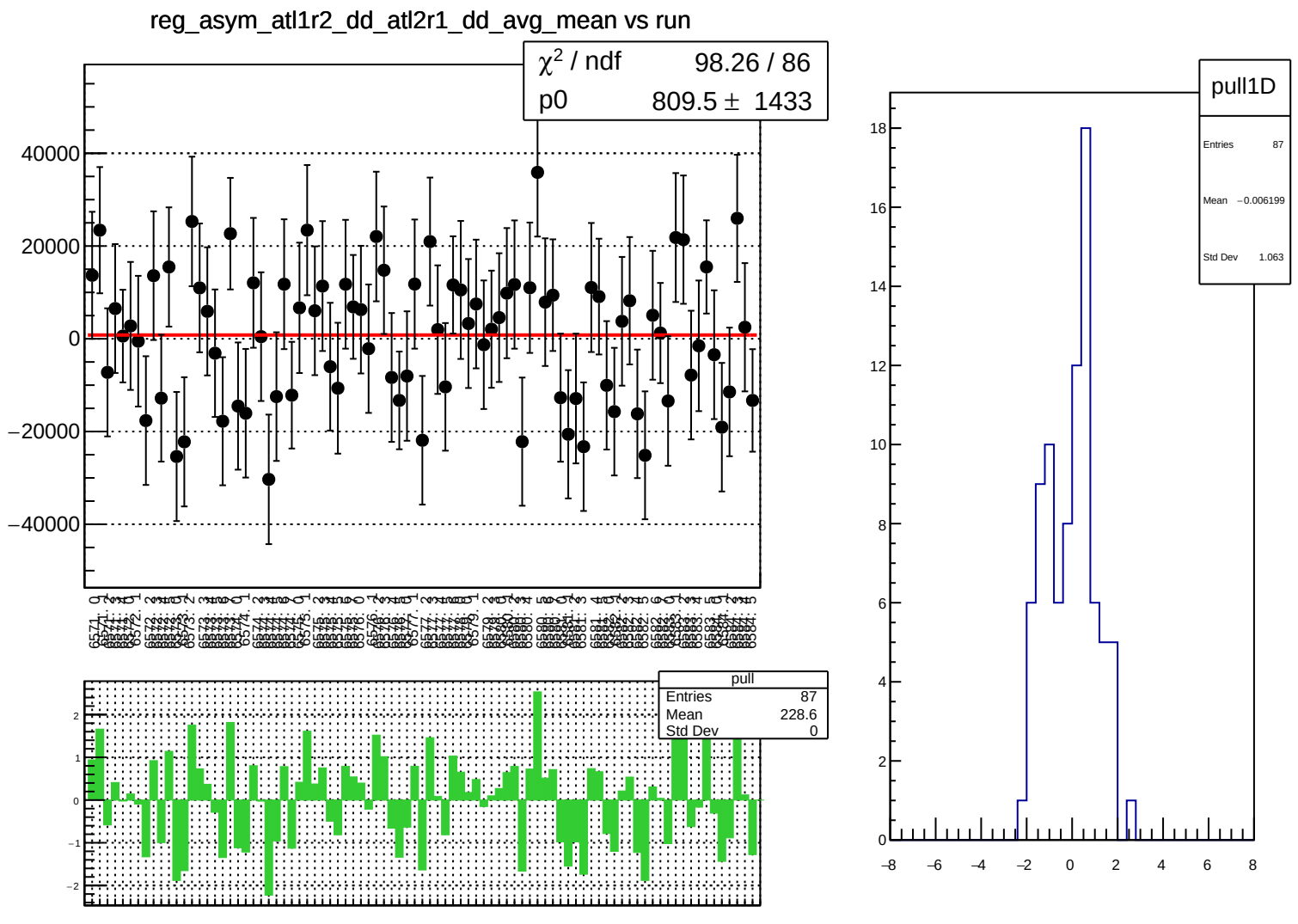

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.46 / 86
p0 −0.3739 ± 0.434
pull
Entries 87
Mean 243.2
Std Dev 0
pull1D
Entries 87
Mean −0.01666
Std Dev 1.036

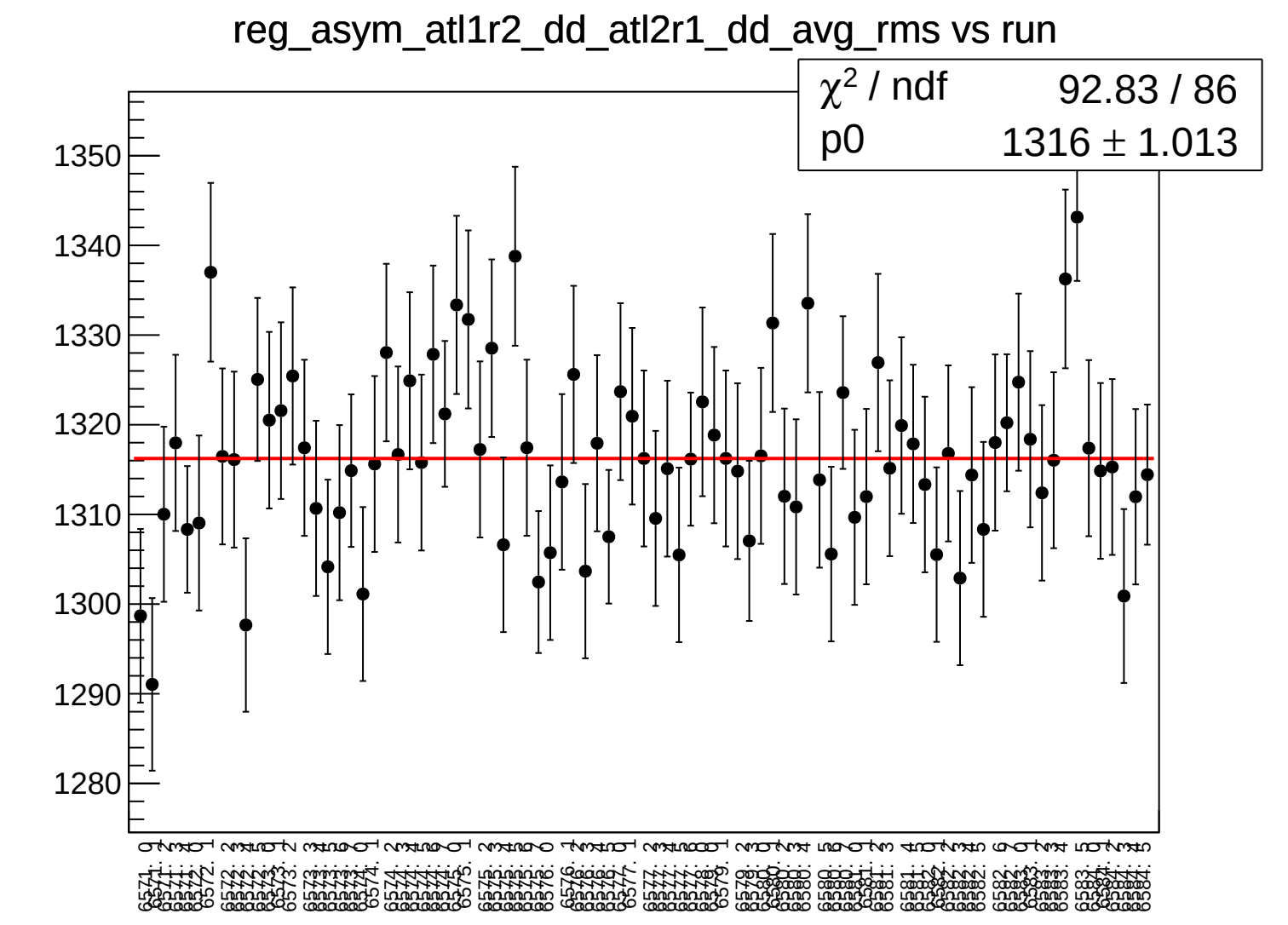

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.653e+04 / 86
p0 394.2 ± 0.3069
800
700
600
500
400
300

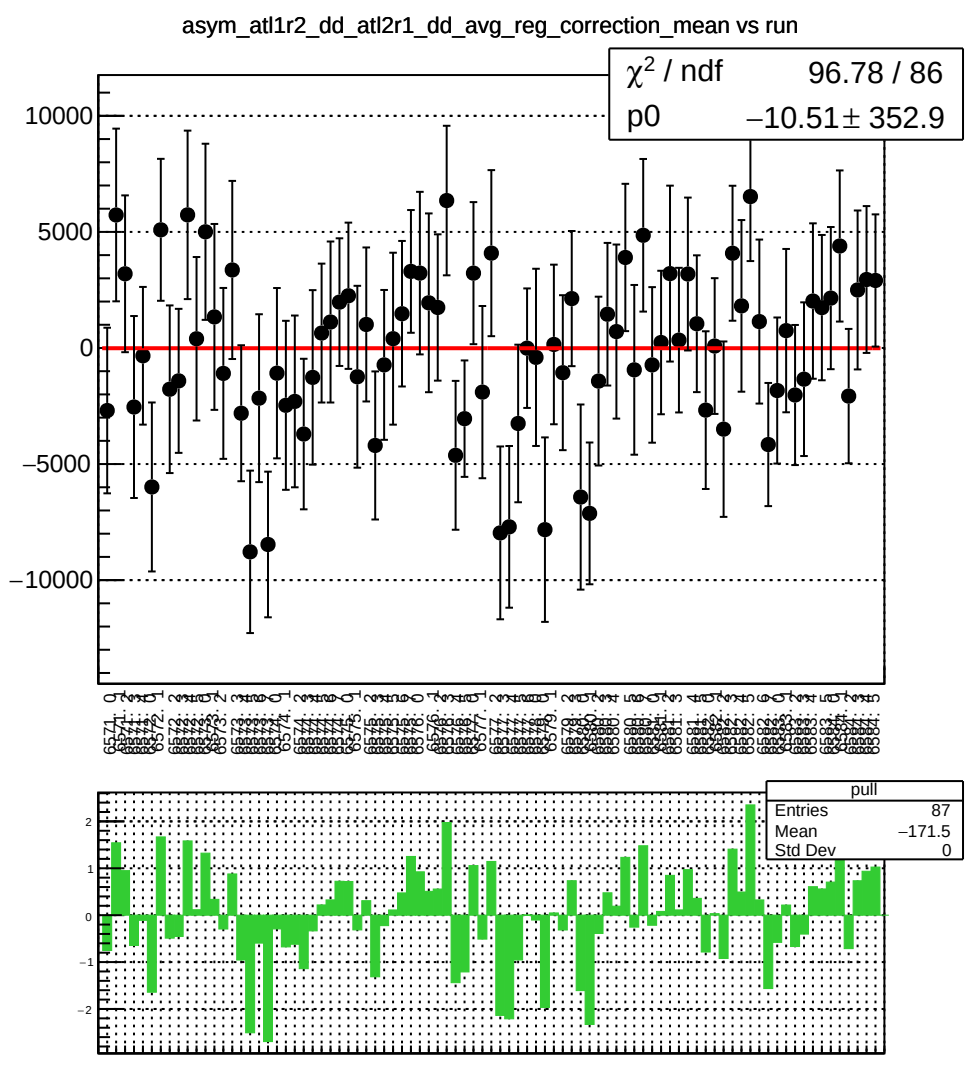

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.28 / 86
p0 −2.851e−14 ± 4.097e−14
pull
Entries 87
Mean 17.22
Std Dev 60.43

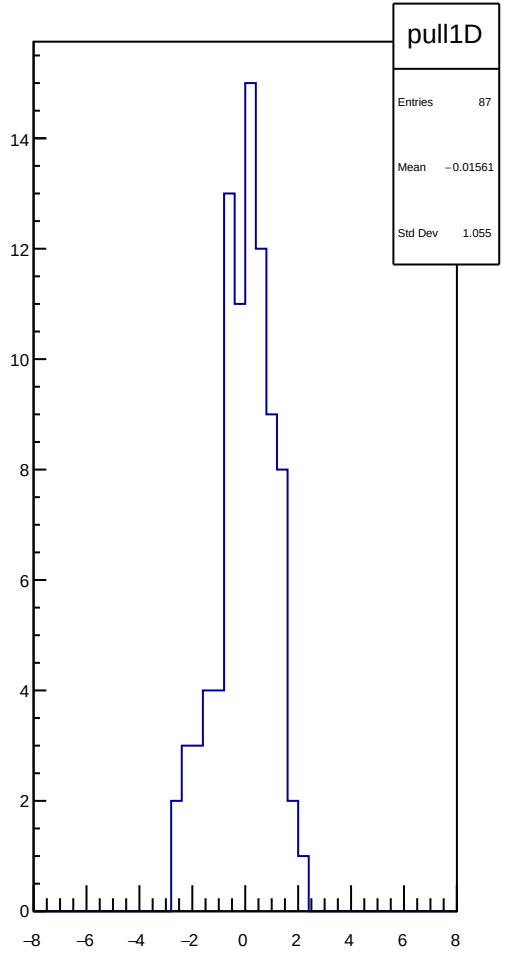

pull1D
Entries 87
Mean −0.02714
Std Dev 0.8984

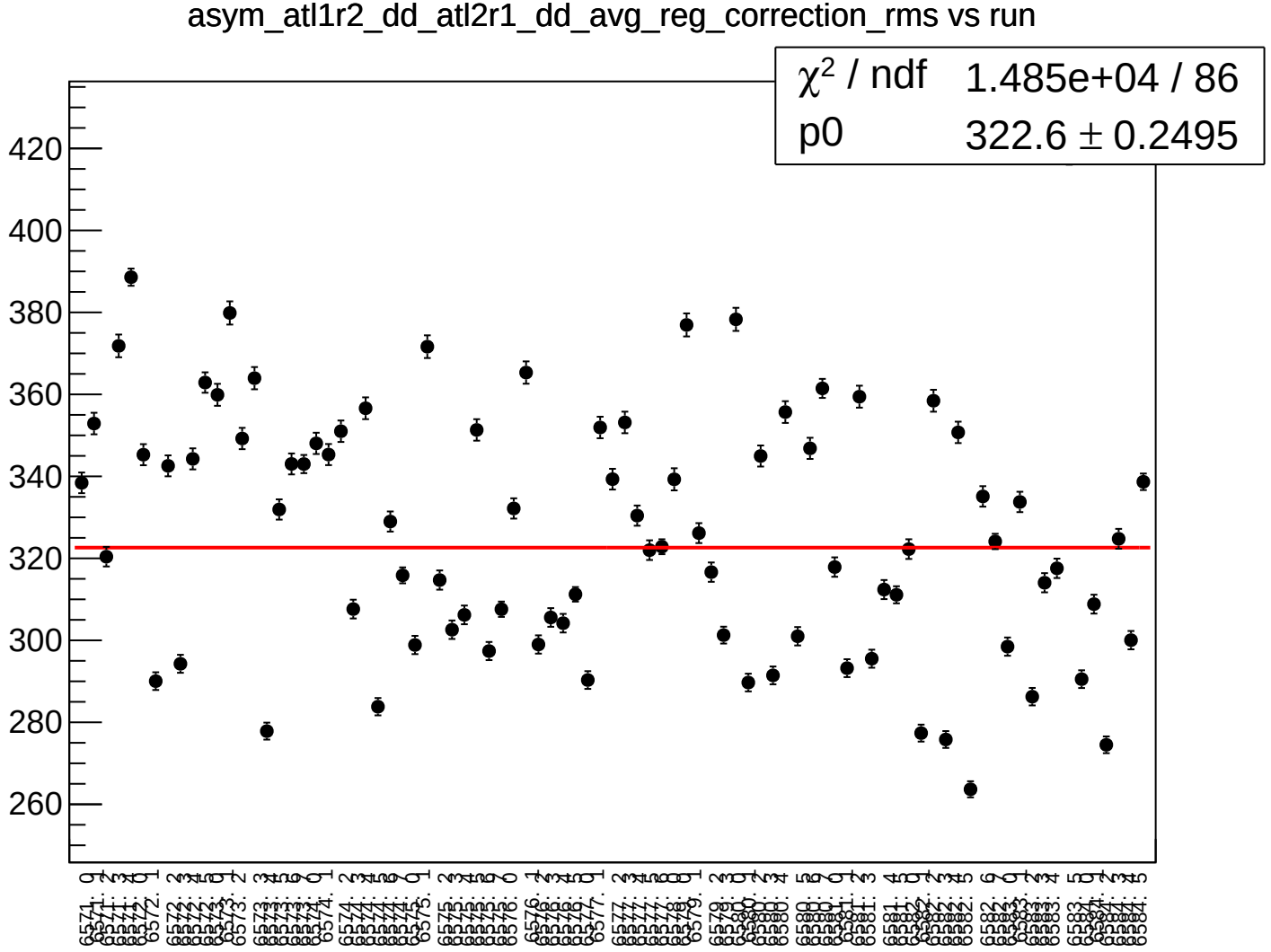

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.344e+05 / 86
p0 3.11e−11 ± 2.897e−14
0.25
0.2
0.15
0.1
0.05

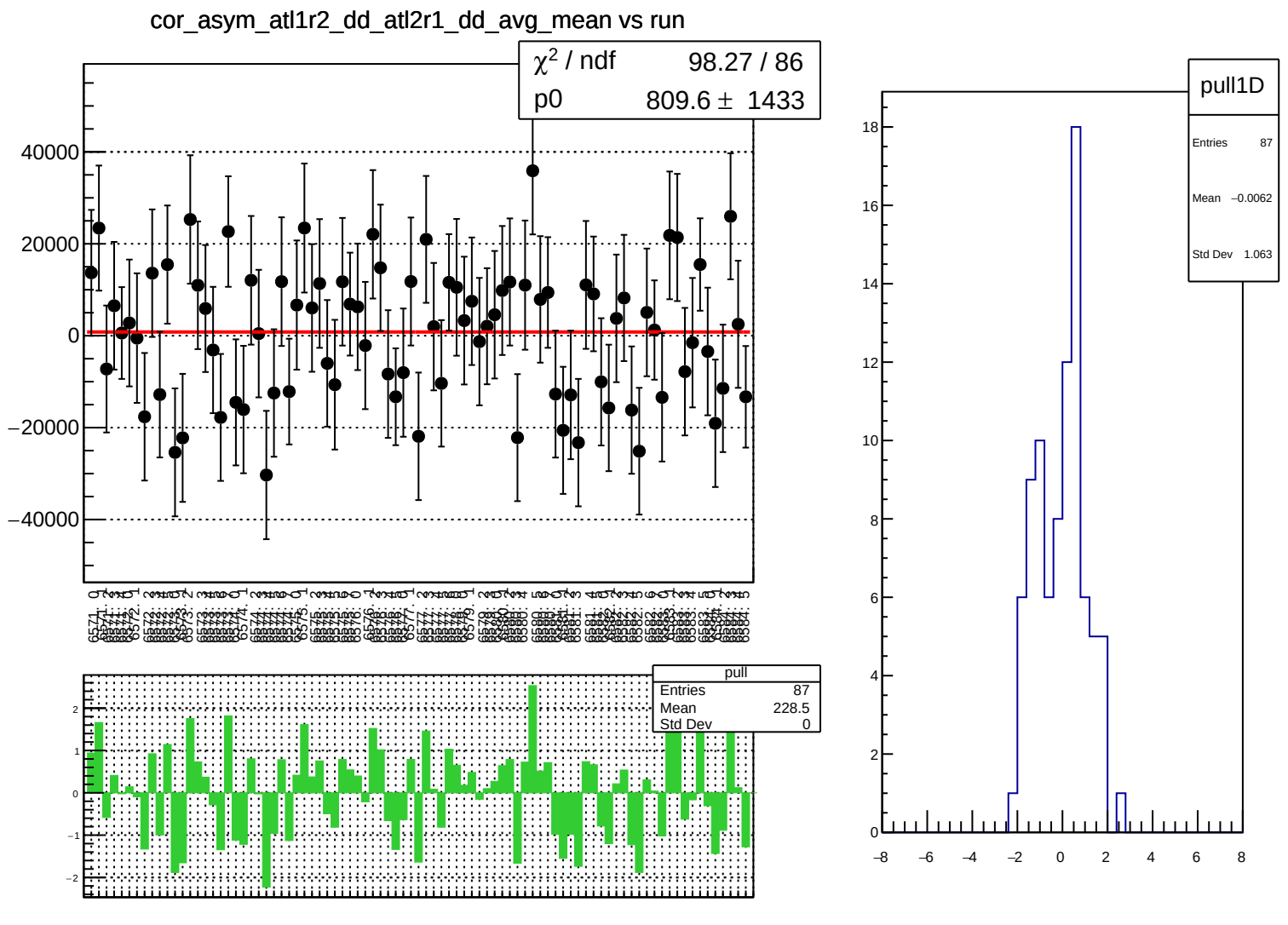

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 98.26 / 86
p0 809.5 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 228.6
Std Dev 0
pull1D
Entries 87
Mean −0.006199
Std Dev 1.063

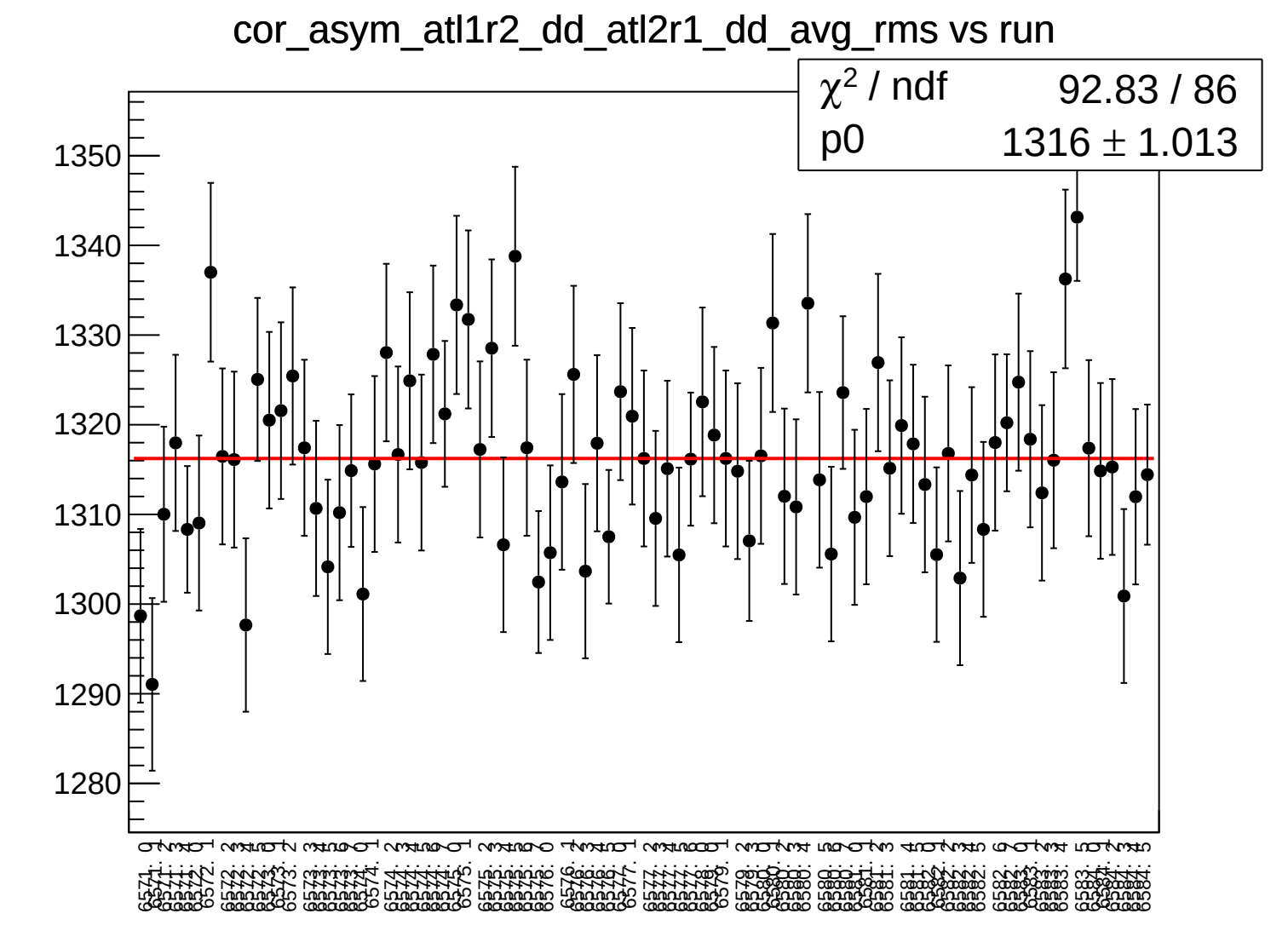

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 92.83 / 86
p0 1316 ± 1.013
1350
1340
1330
1320
1310
1300
1290
1280

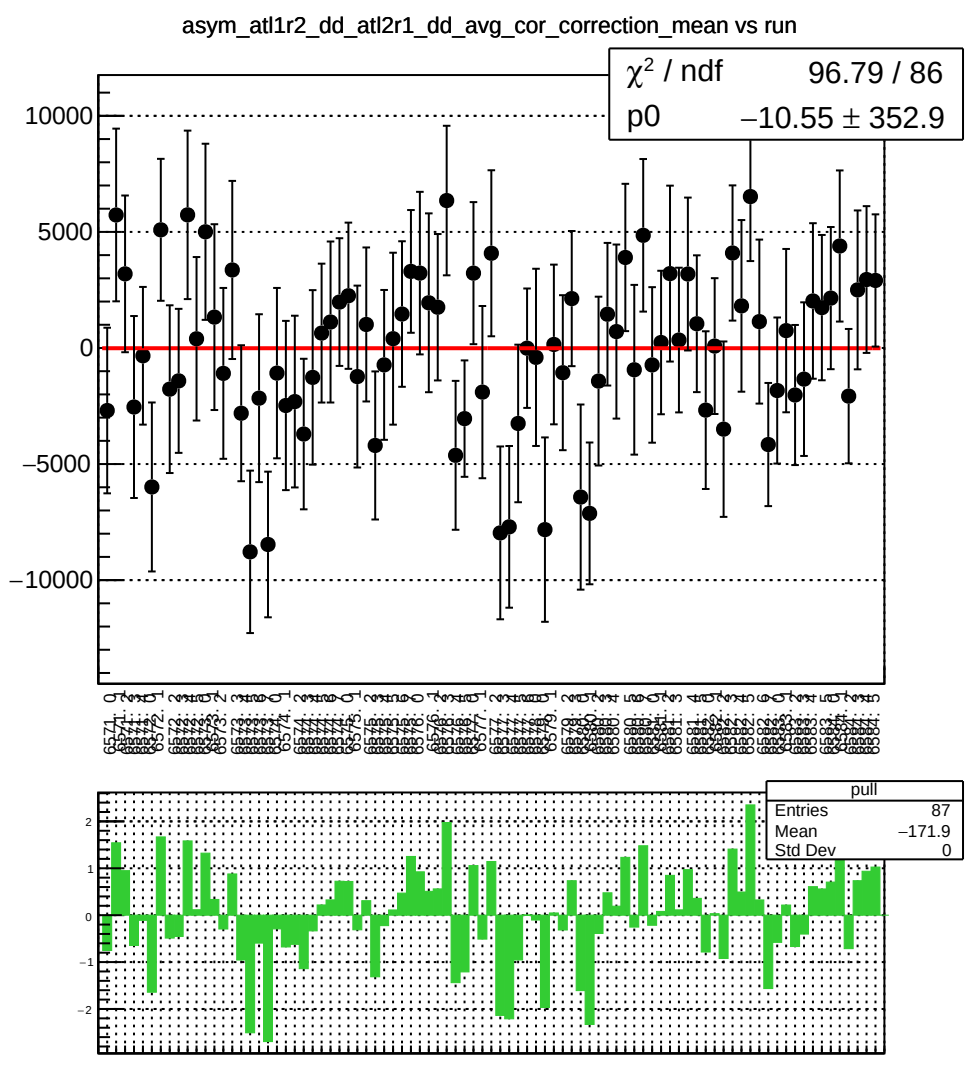

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 96.78 / 86
p0 −10.51 ± 352.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −171.5
Std Dev 0
2
1
0
−1
−2

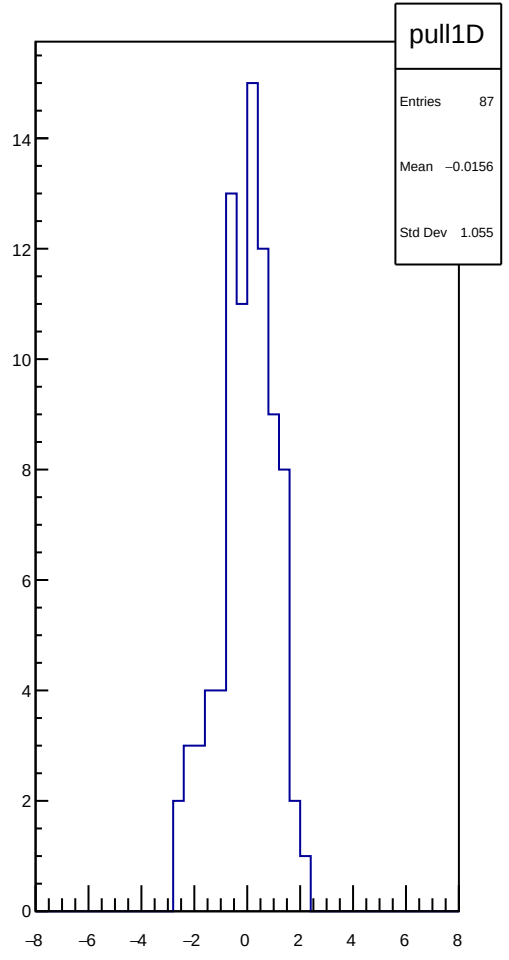

pull1D
Entries 87
Mean −0.01561
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

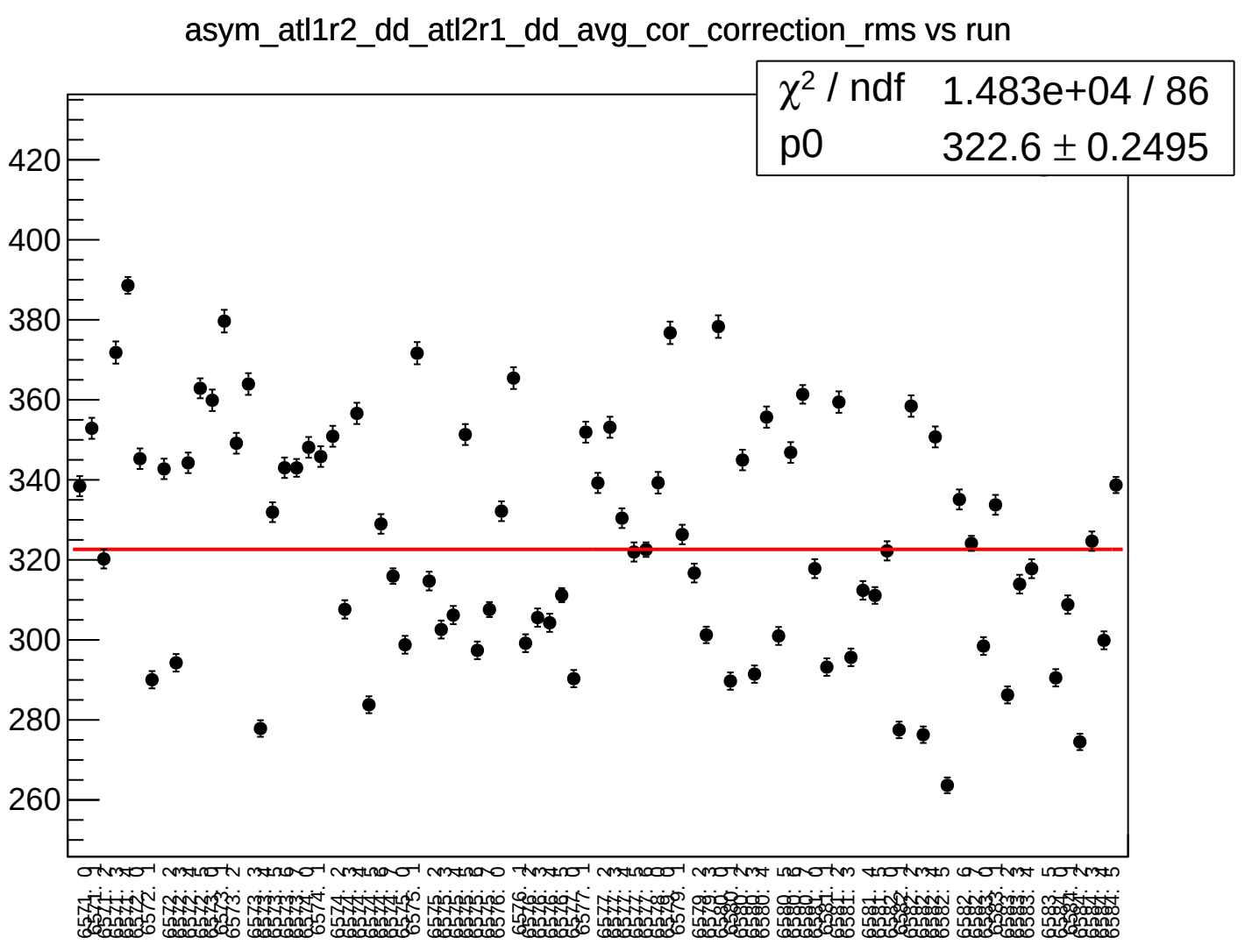

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.485e+04 / 86
p0 322.6 ± 0.2495
420
400
380
360
340
320
300
280
260

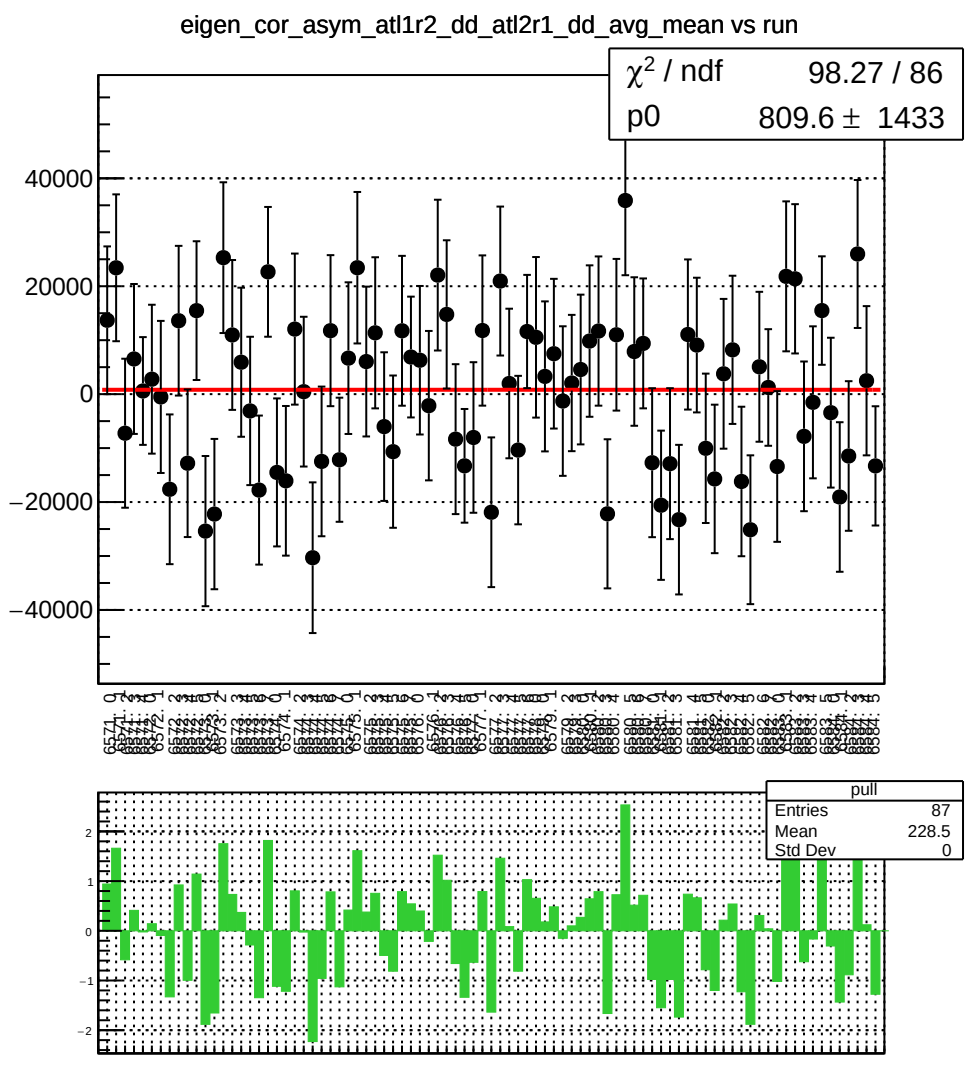

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 98.27 / 86
p0 809.6 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 228.5
Std Dev 0
pull1D
Entries 87
Mean −0.0062
Std Dev 1.063

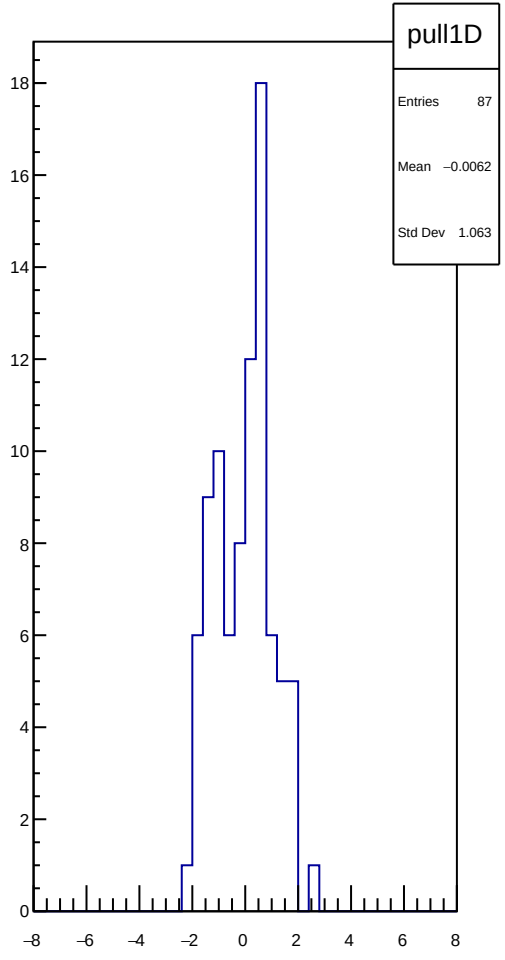

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 92.83 / 86
p0 1316 ± 1.013
1350
1340
1330
1320
1310
1300
1290
1280

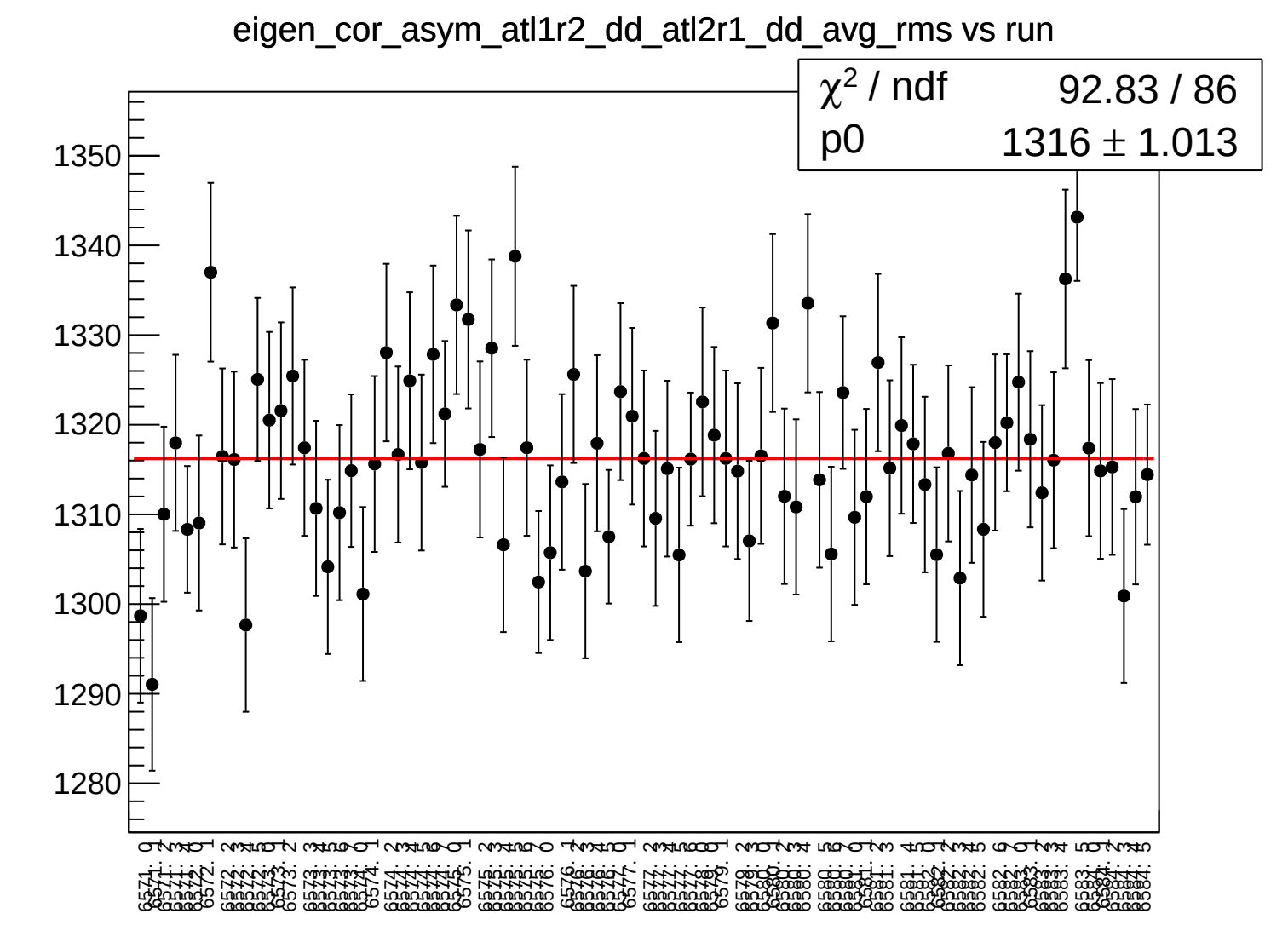

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 96.79 / 86
p0 −10.55 ± 352.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −171.9
Std Dev 0
2
1
0
−1
−2

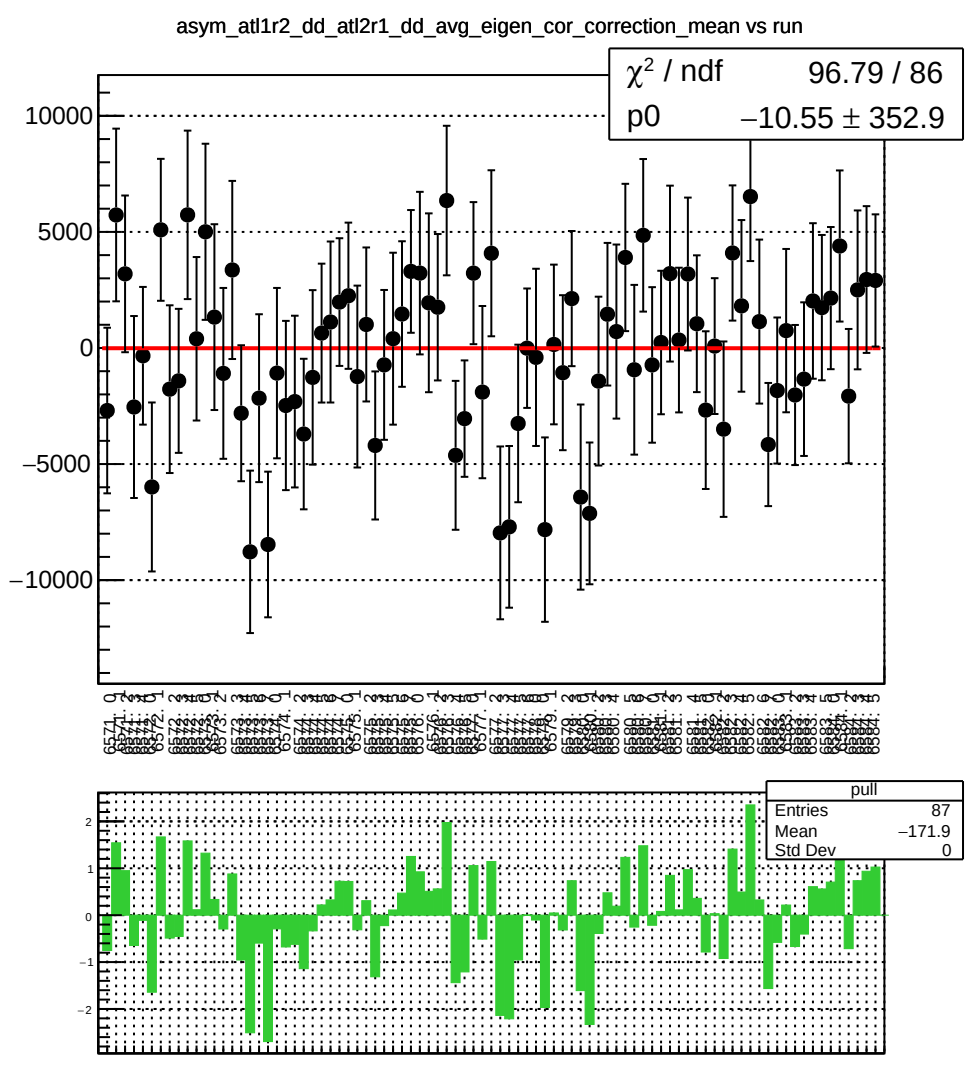

pull1D
Entries 87
Mean −0.0156
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

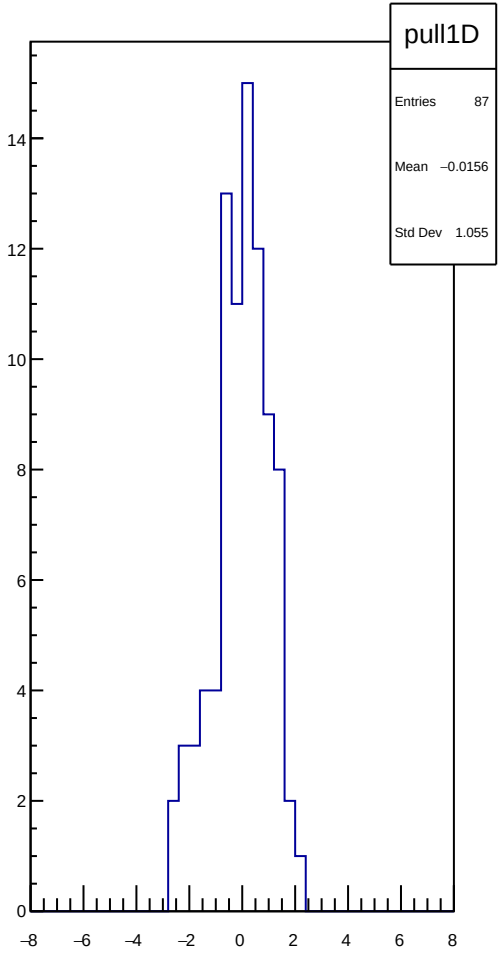

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.483e+04 / 86
p0 322.6 ± 0.2495
420
400
380
360
340
320
300
280
260

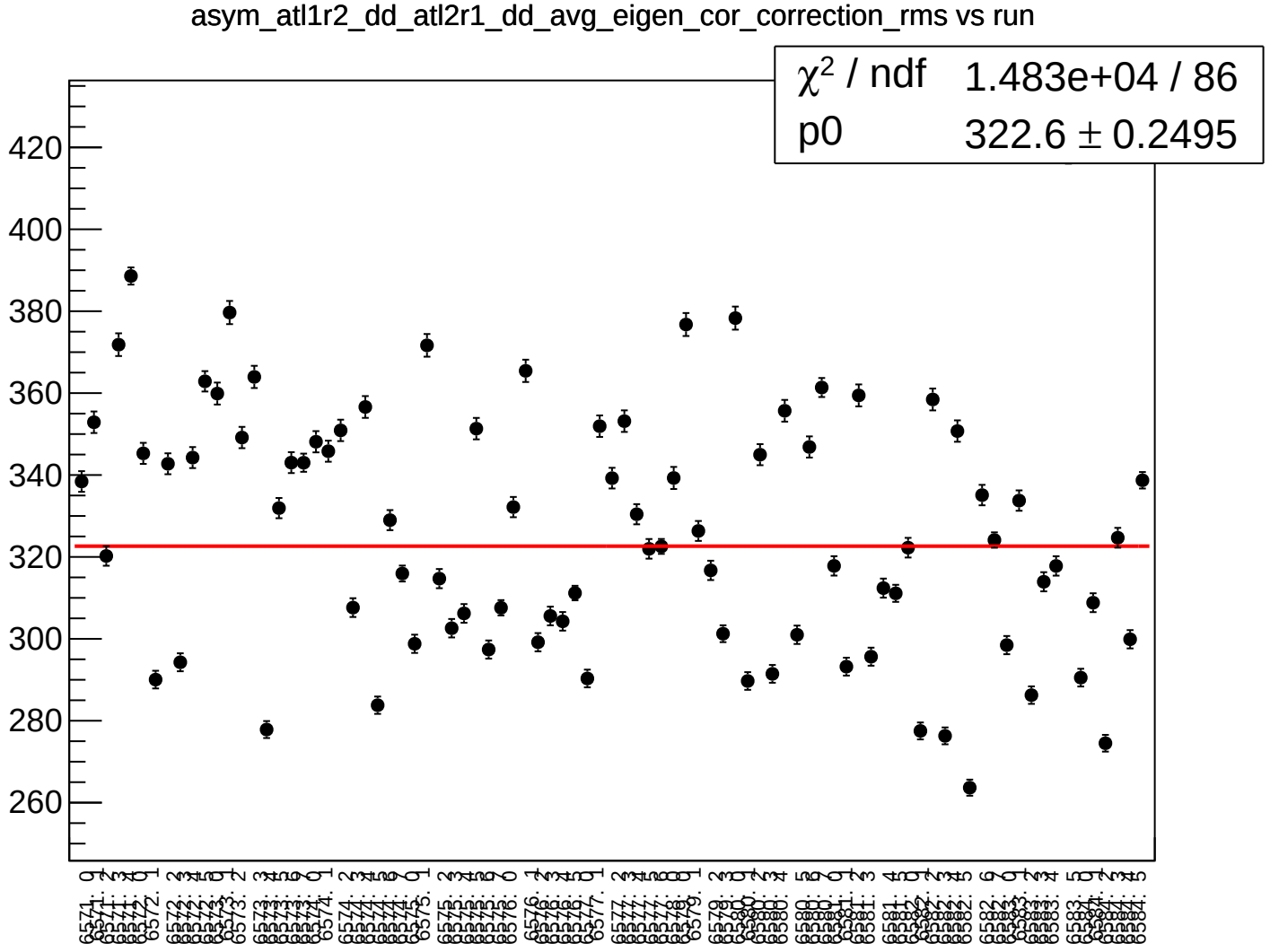

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 98.27 / 86
p0 809.6 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 228.5
Std Dev 0
2
1
0
−1
−2

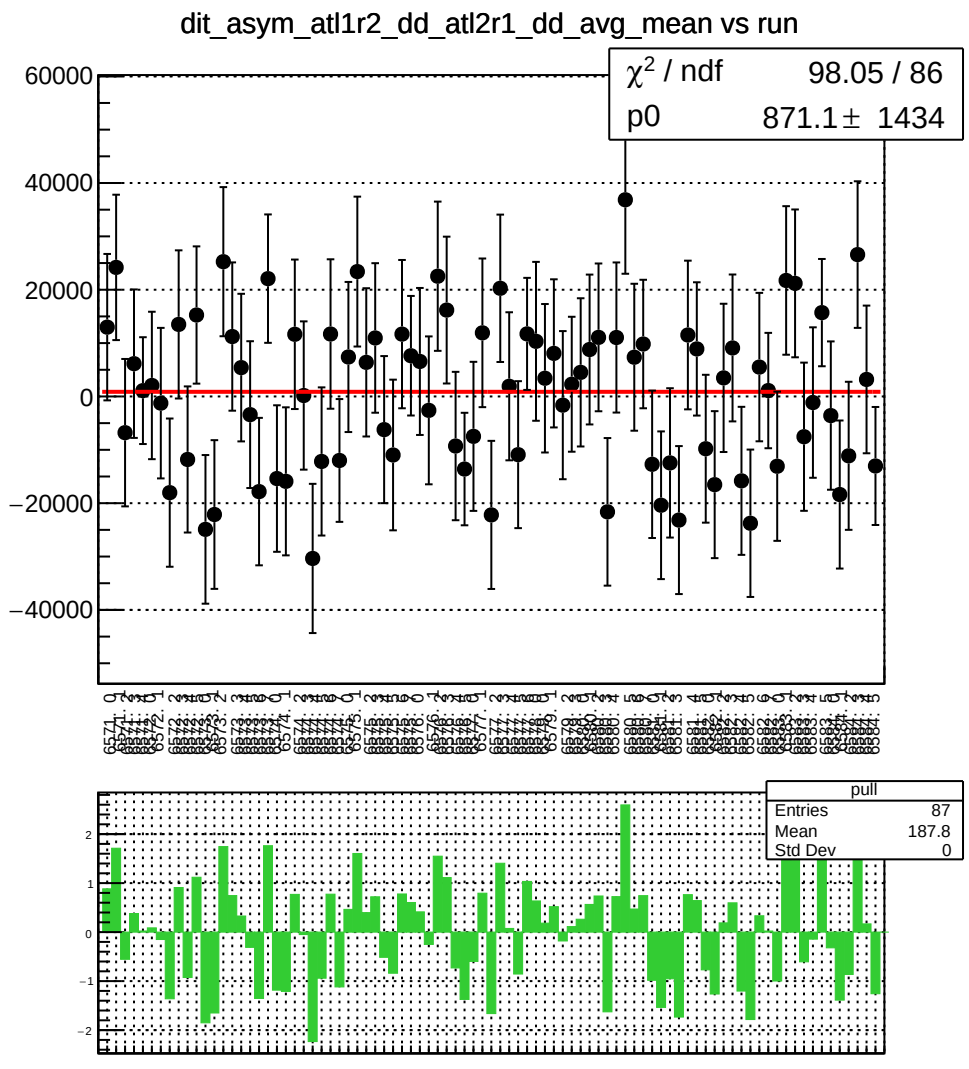

pull1D
Entries 87
Mean −0.0062
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

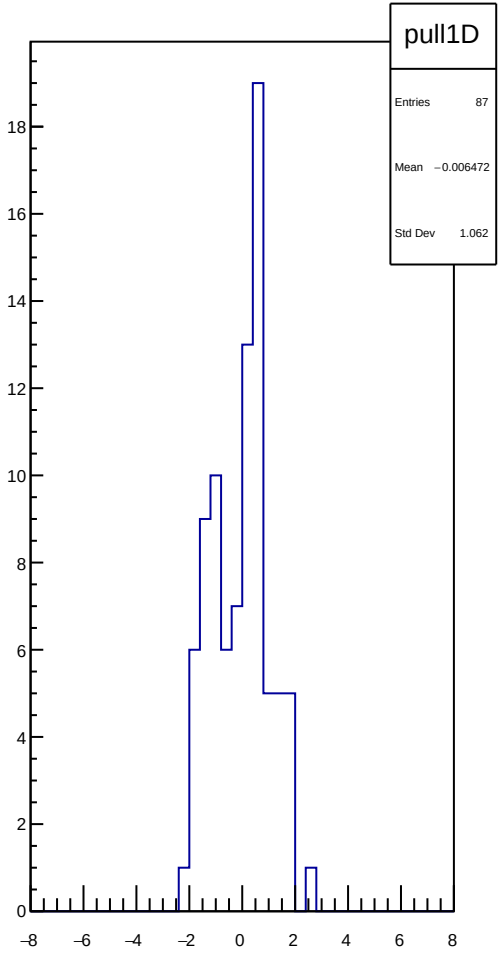

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 92.83 / 86
p0 1316 ± 1.013
1350
1340
1330
1320
1310
1300
1290
1280

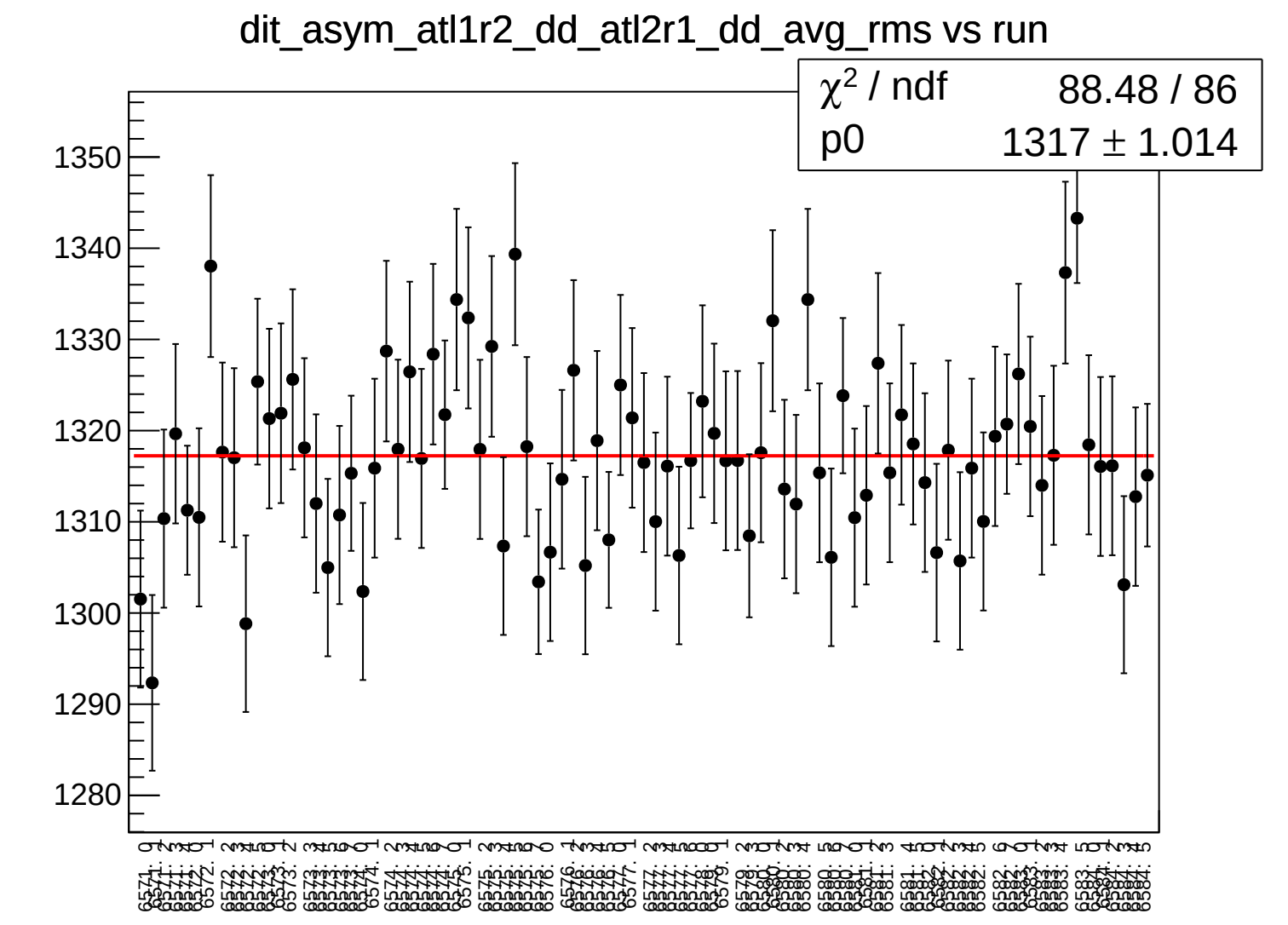

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.79 / 86
p0 −10.55 ± 352.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −171.9
Std Dev 0
2
1
0
−1
−2

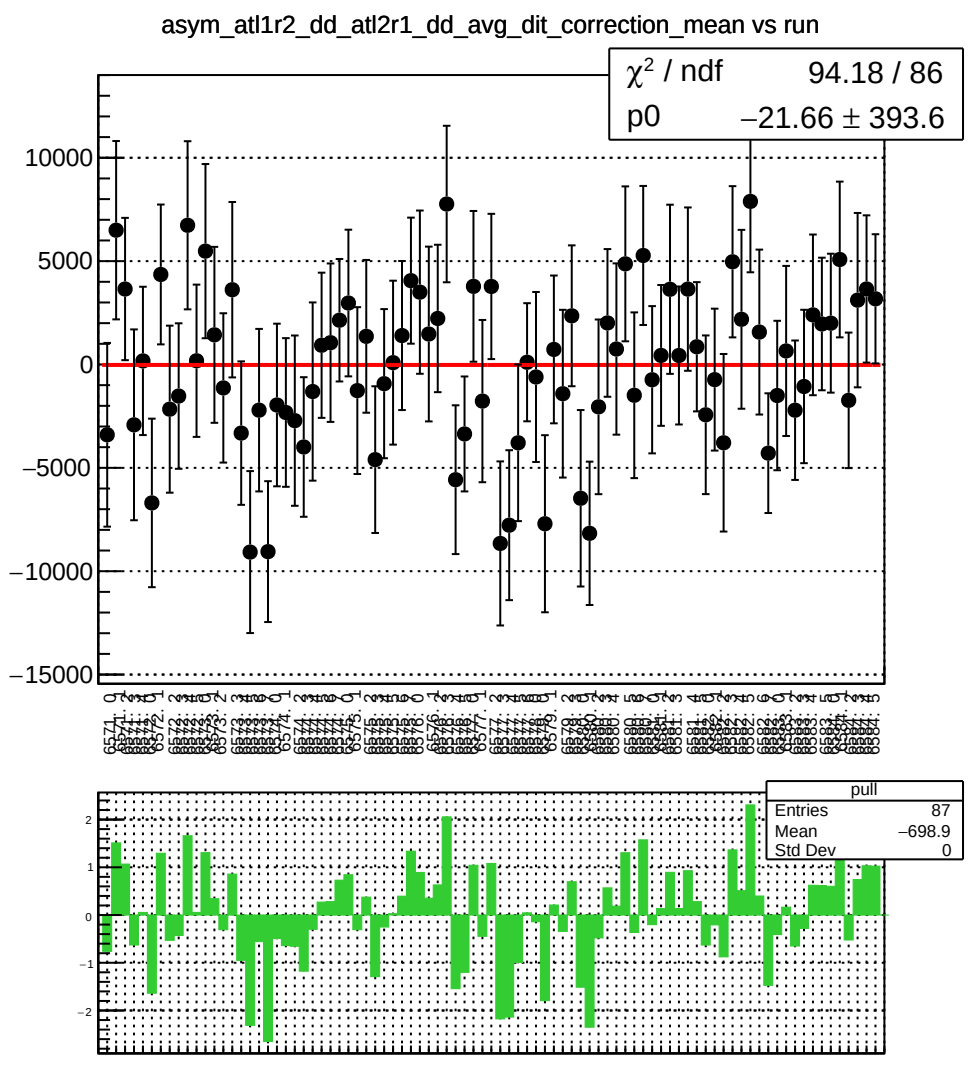

pull1D
Entries 87
Mean −0.0156
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

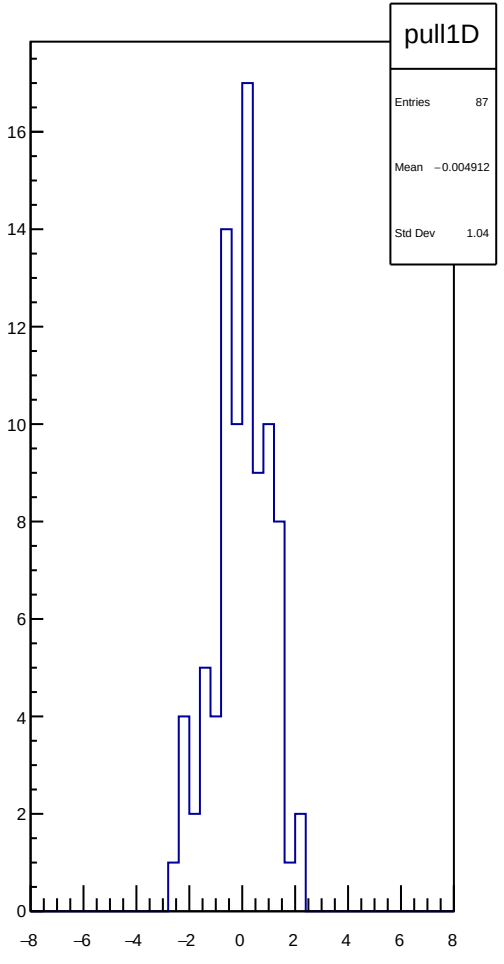

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.483e+04 / 86
p0 322.6 ± 0.2495
420
400
380
360
340
320
300
280
260

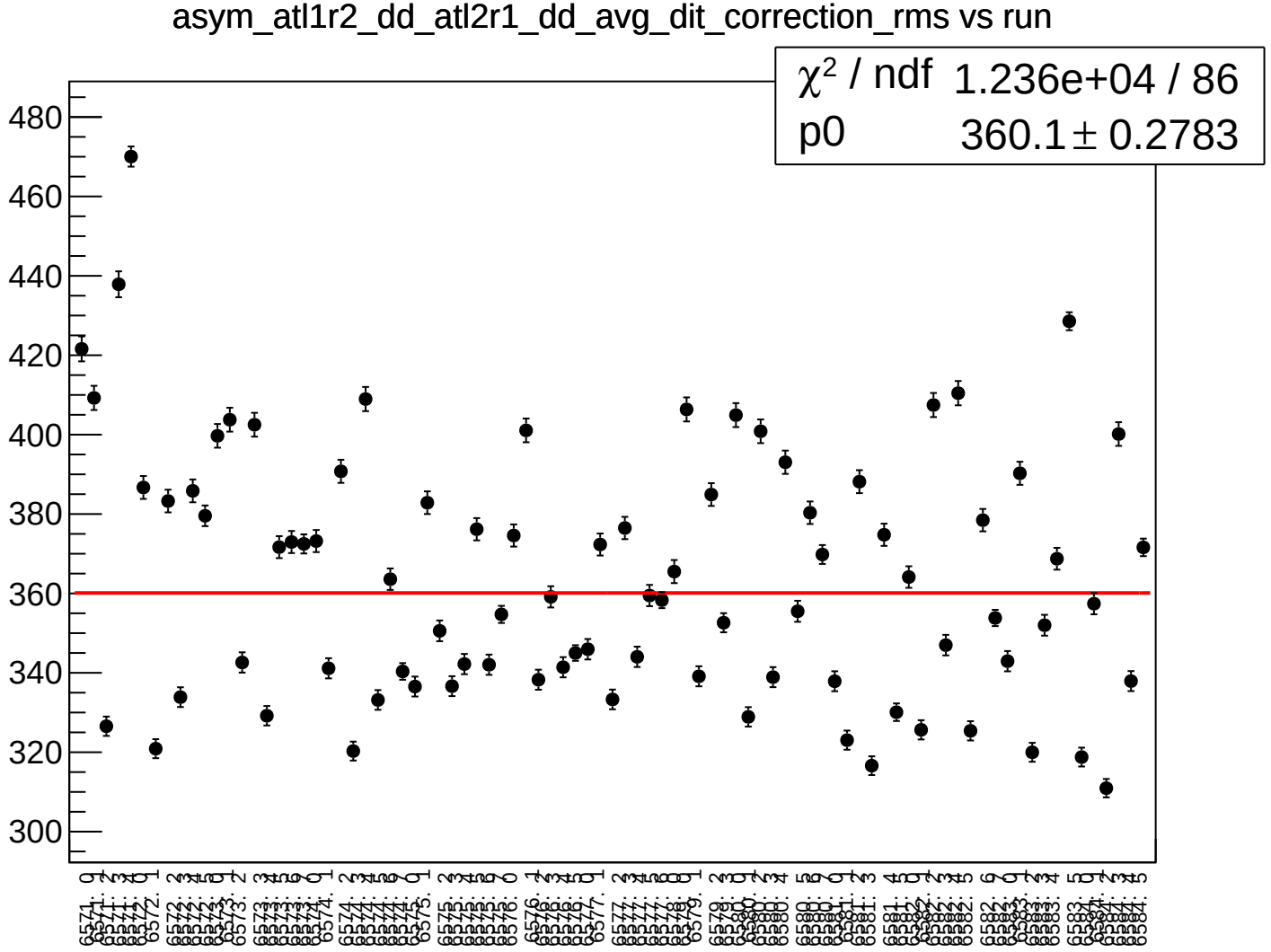

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 98.05 / 86
p0 871.1 ± 1434
pull
Entries 87
Mean 187.8
Std Dev 0

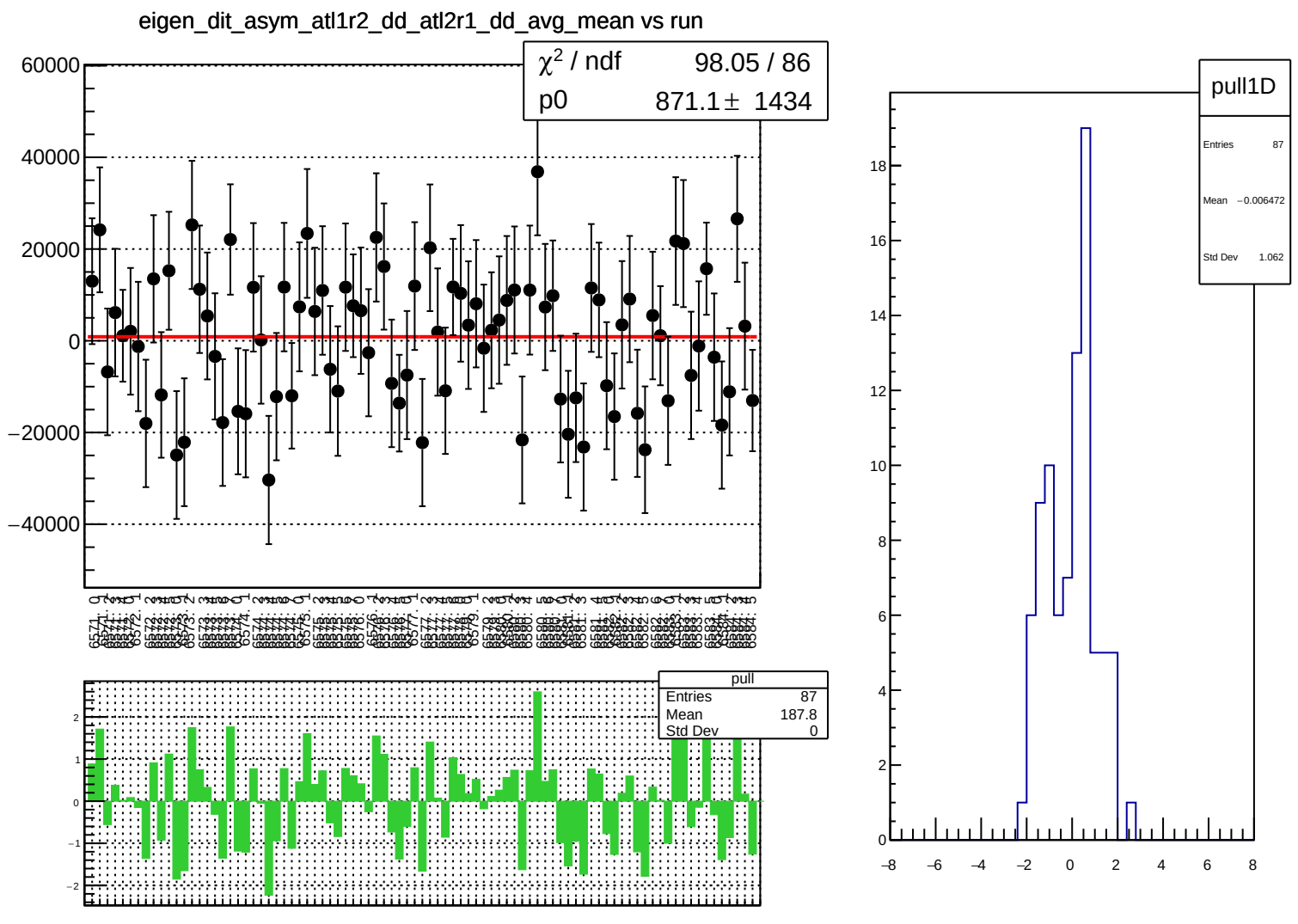

pull1D
Entries 87
Mean −0.006472
Std Dev 1.062

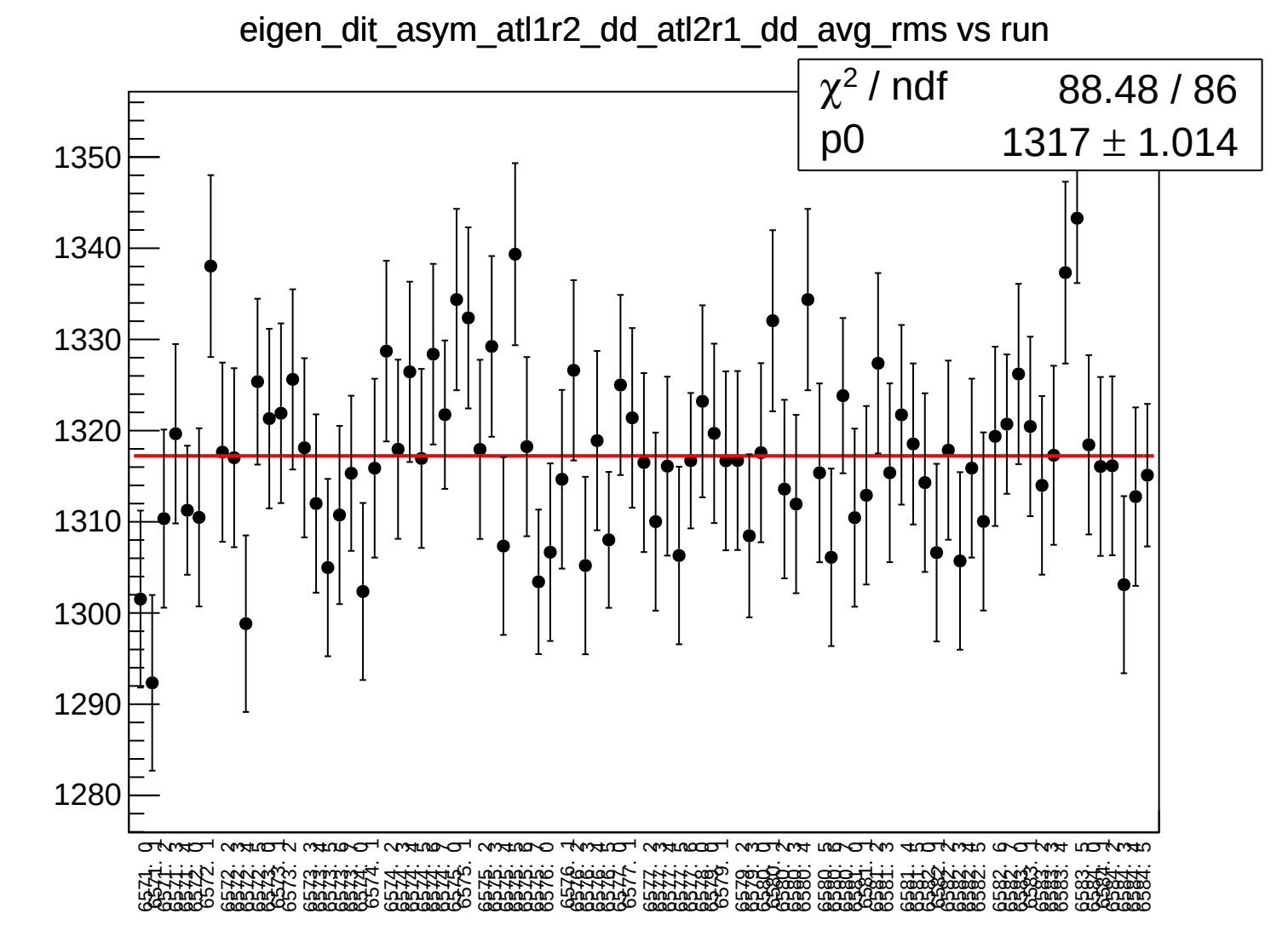

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 88.48 / 86
p0 1317 ± 1.014
1350
1340
1330
1320
1310
1300
1290
1280

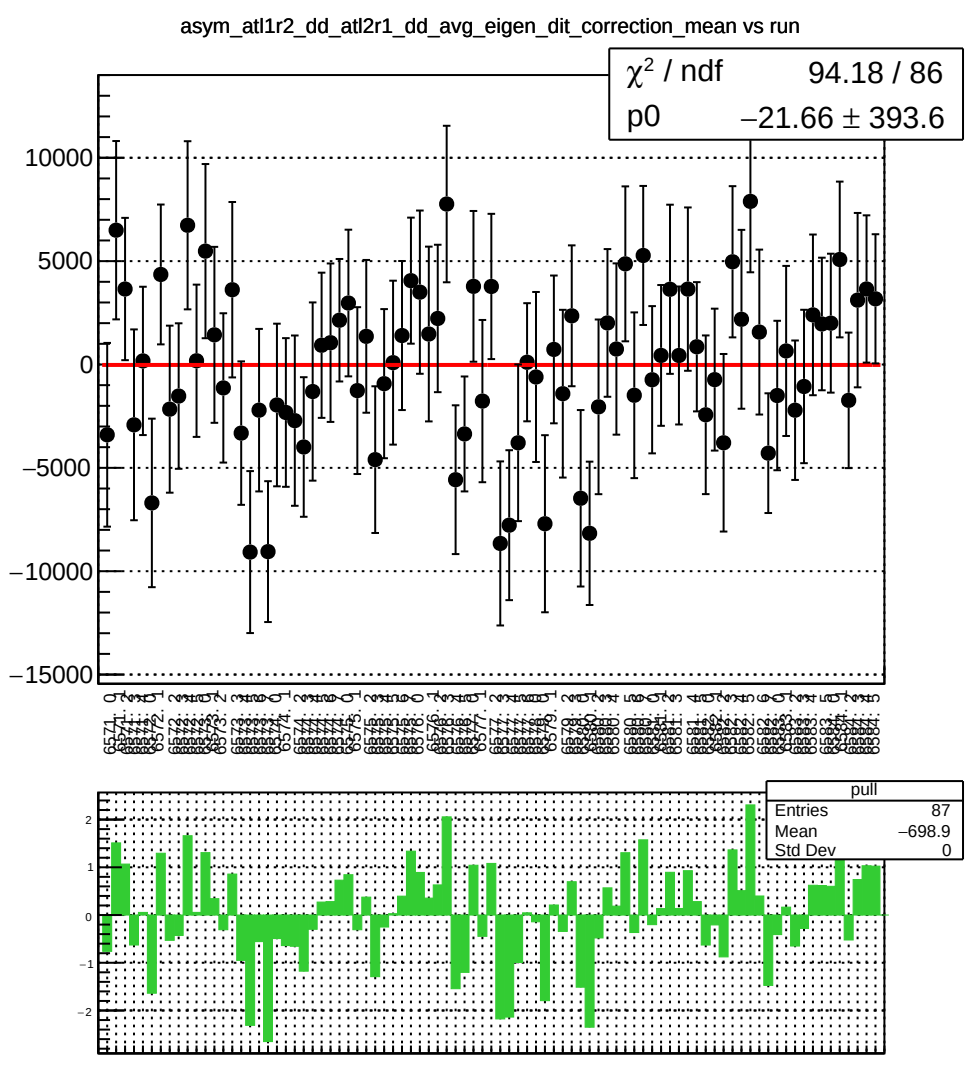

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 94.18 / 86
p0 −21.66 ± 393.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −698.9
Std Dev 0
2
1
0
−1
−2

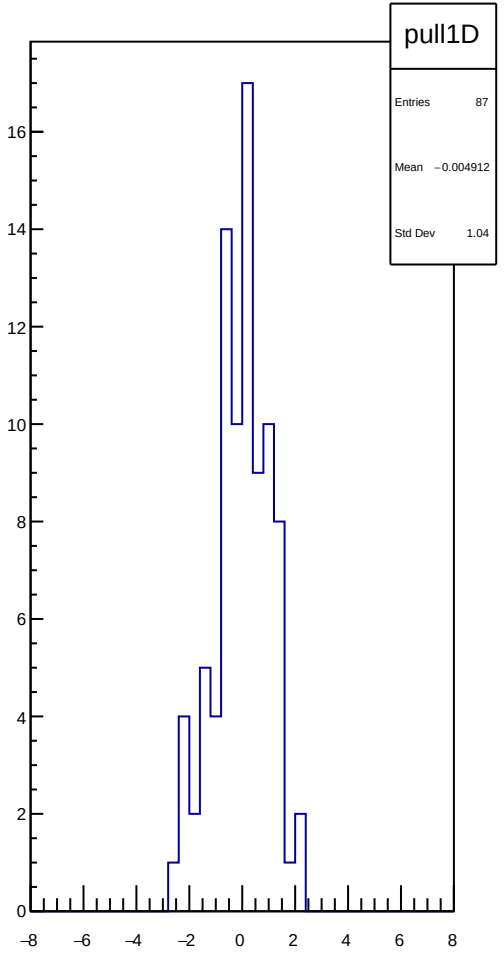

pull1D
Entries 87
Mean −0.004912
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

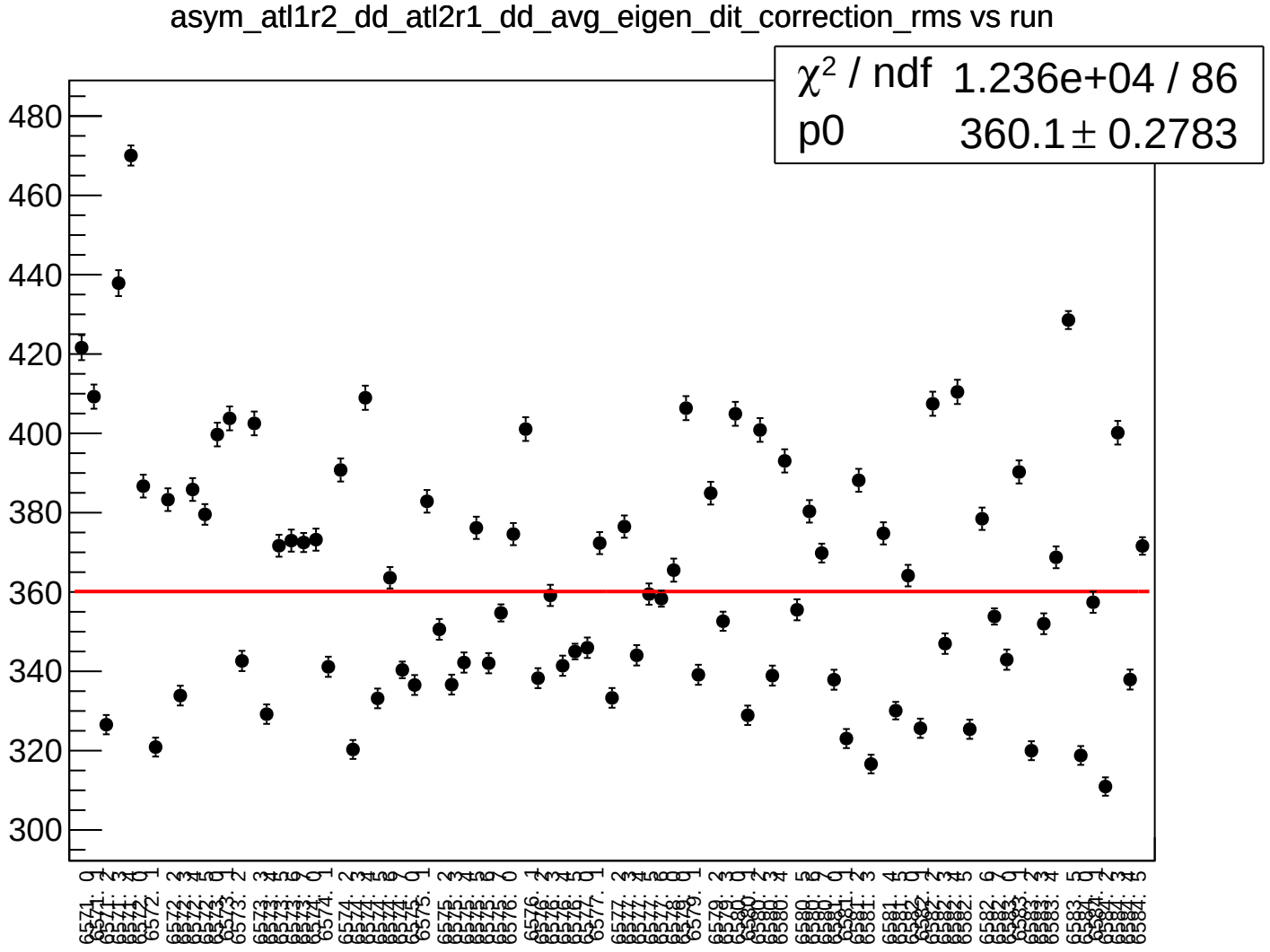

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.236e+04 / 86
p0 360.1 ± 0.2783
480
460
440
420
400
380
360
340
320
300

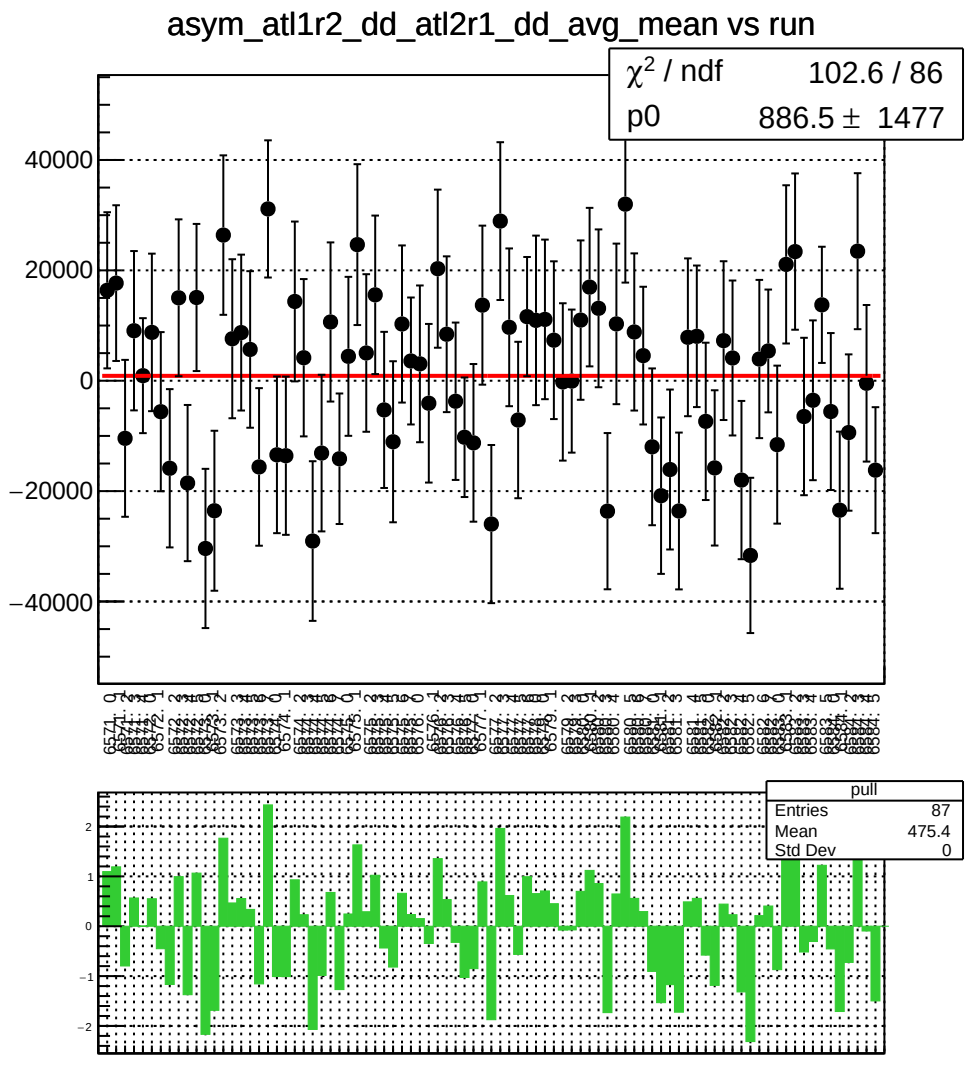

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 98.05 / 86
p0 871.1 ± 1434
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 187.8
Std Dev 0
pull1D
Entries 87
Mean −0.006472
Std Dev 1.062

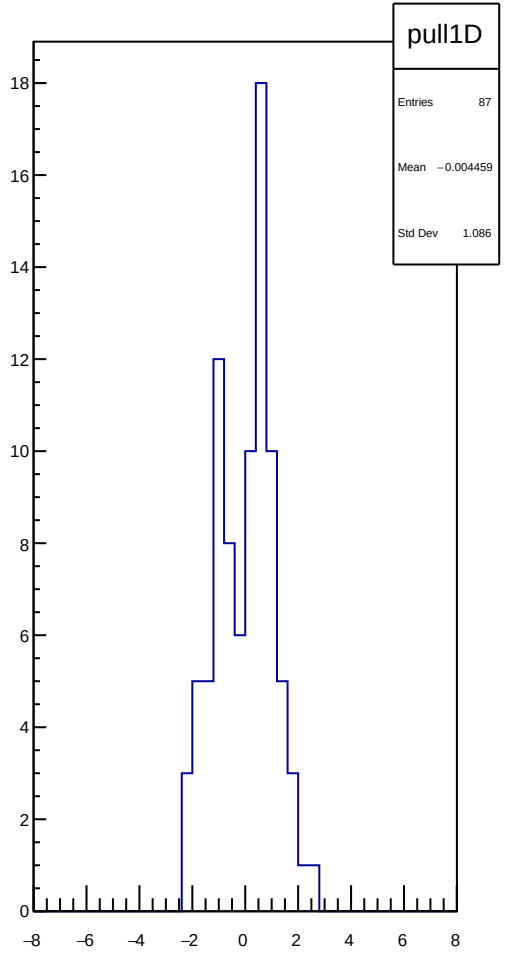

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 88.48 / 86
p0 1317 ± 1.014
1350
1340
1330
1320
1310
1300
1290
1280

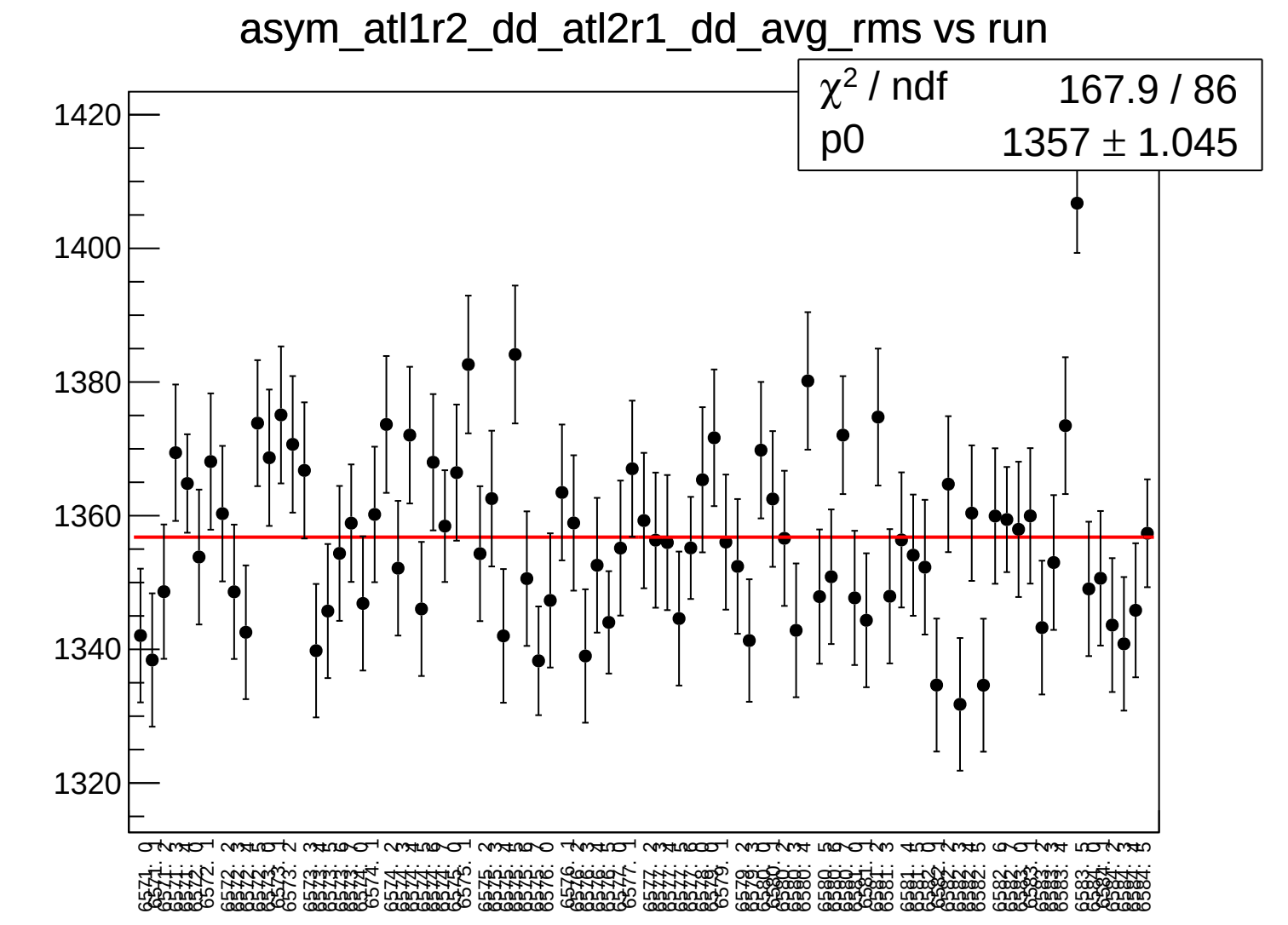

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.18 / 86
p0 −21.66 ± 393.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −698.9
Std Dev 0
2
1
0
−1
−2

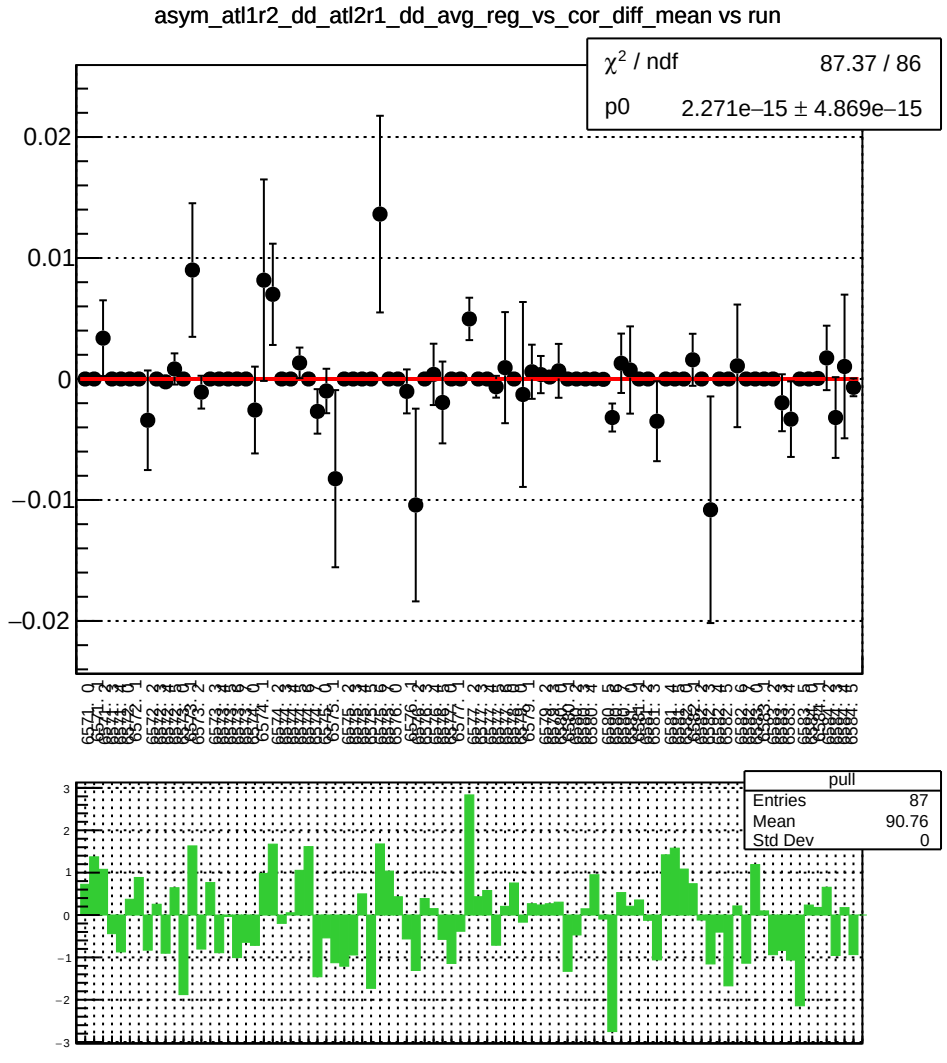

pull1D
Entries 87
Mean −0.004912
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

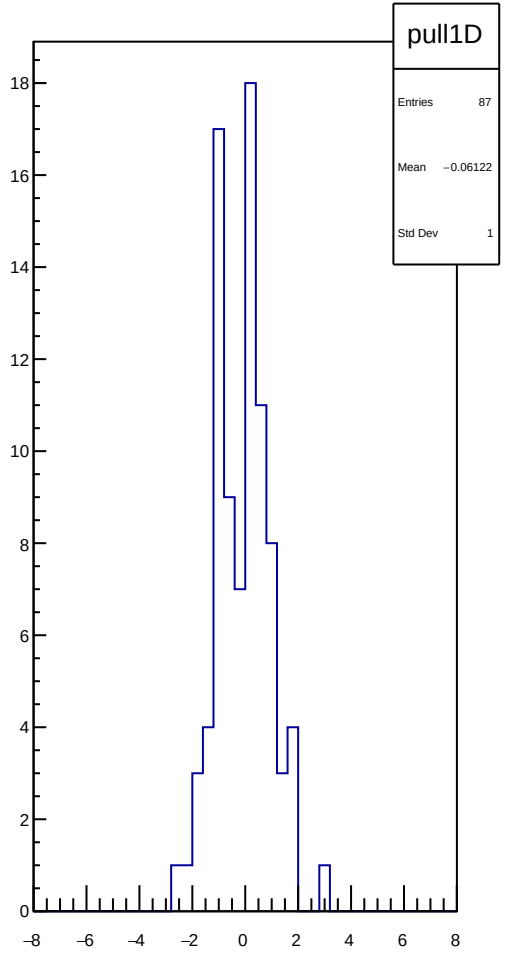

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.236e+04 / 86
p0 360.1 ± 0.2783
480
460
440
420
400
380
360
340
320
300

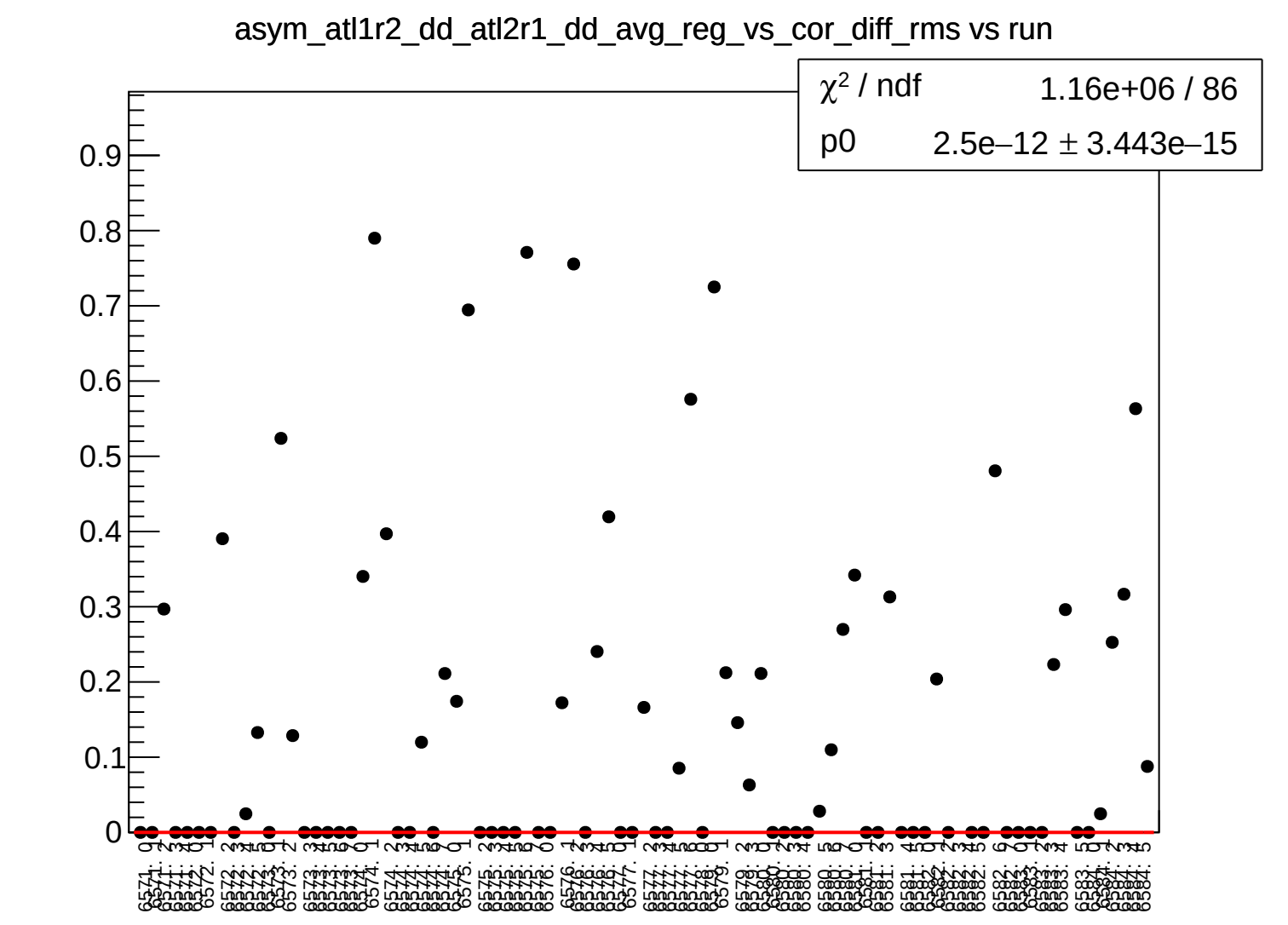

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 102.6 / 86
p0 886.5 ± 1477
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 475.4
Std Dev 0
2
1
0
−1
−2

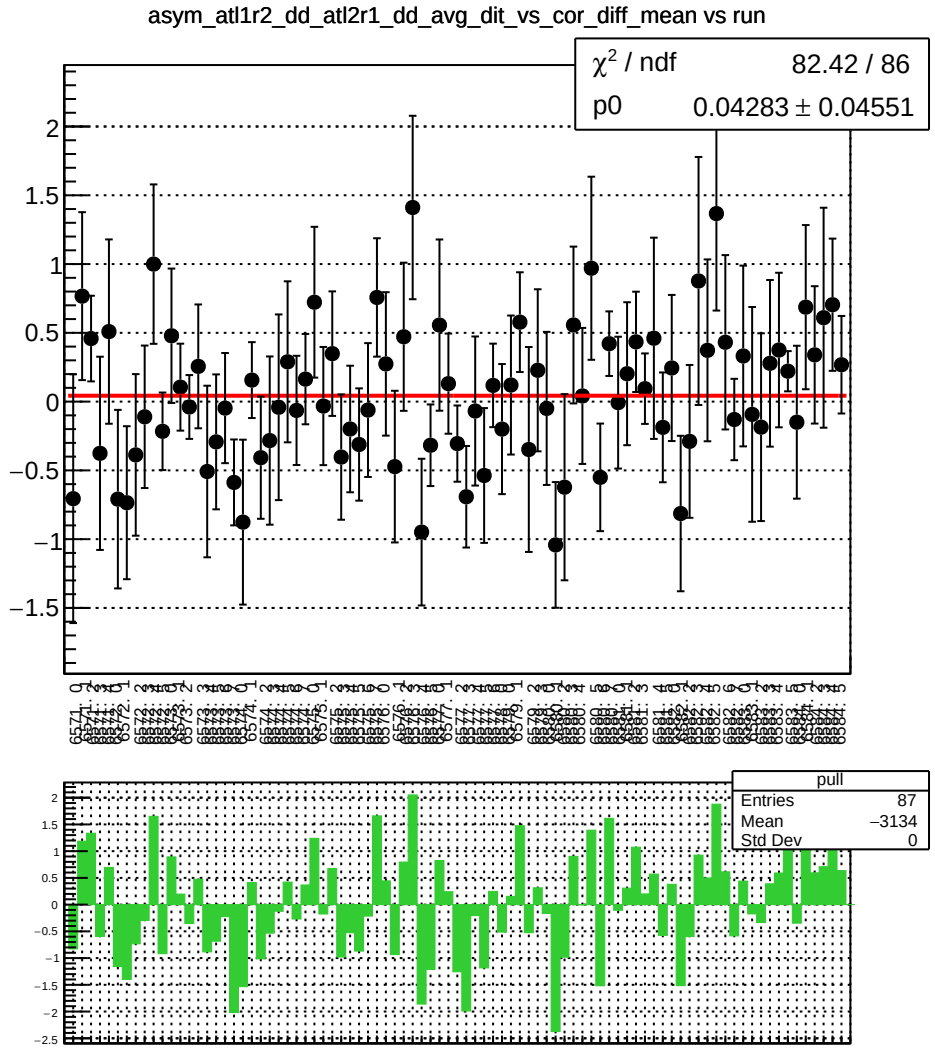

pull1D
Entries 87
Mean −0.004459
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

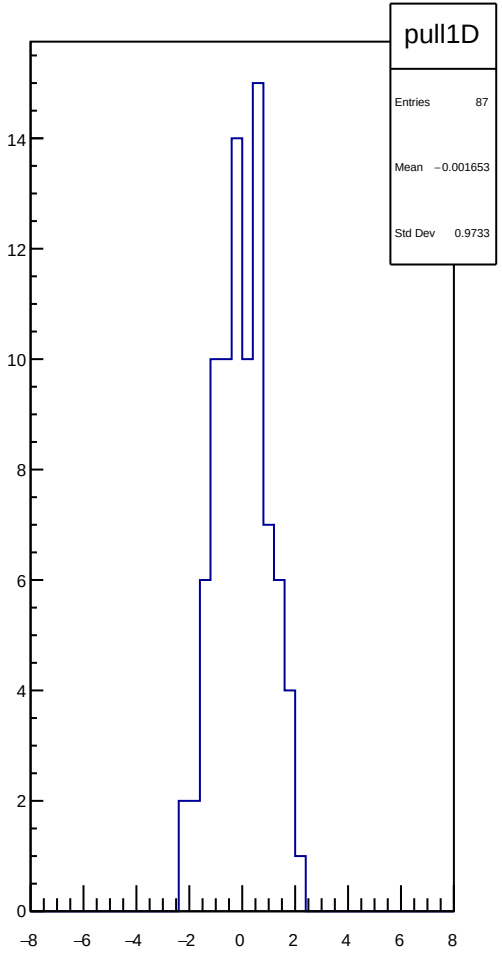

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 167.9 / 86
p0 1357 ± 1.045
1420
1400
1380
1360
1340
1320

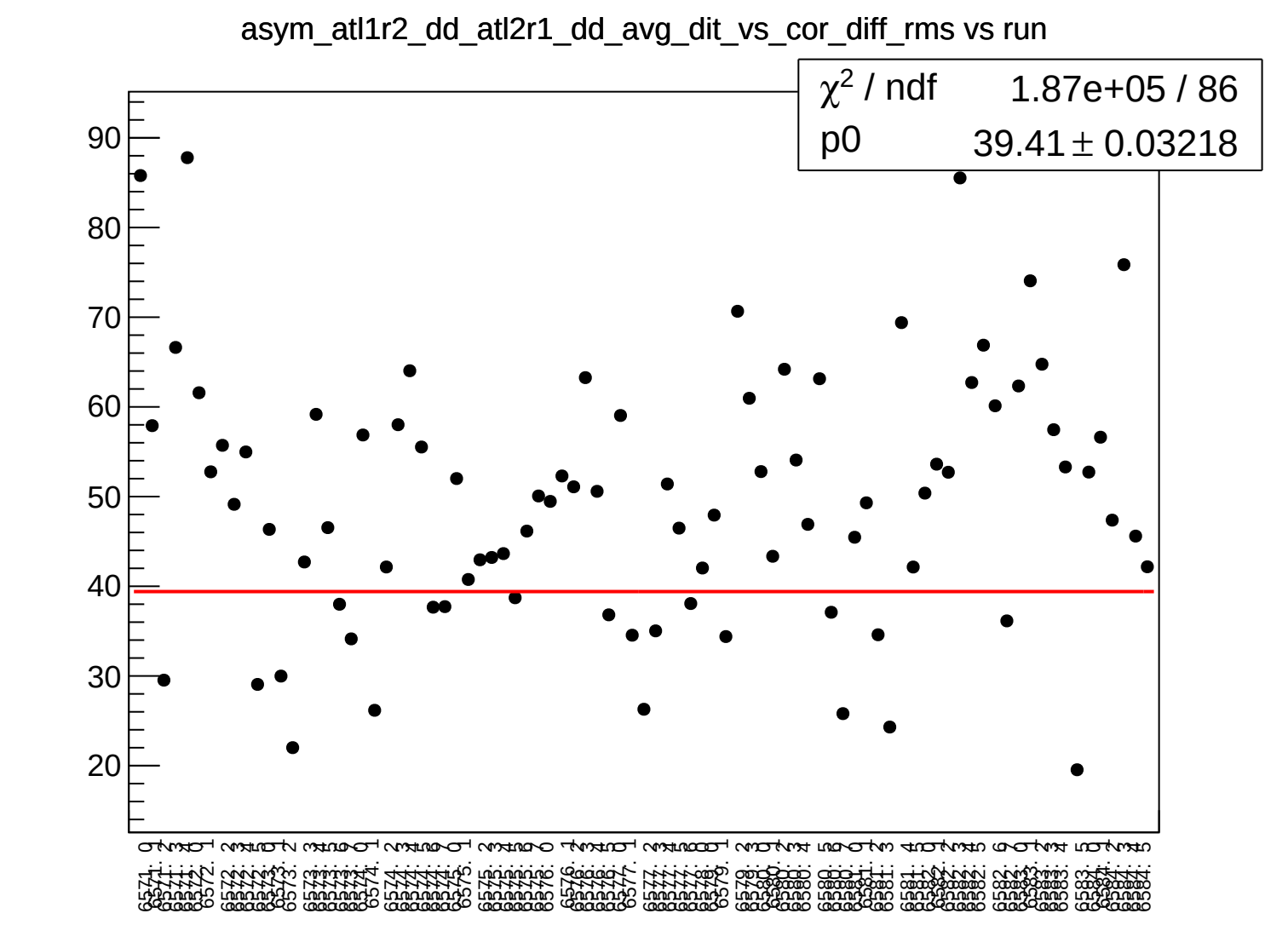

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.37 / 86
p0 2.271e−15 ± 4.869e−15
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 90.76
Std Dev 0
3
2
1
0
−1
−2
−3

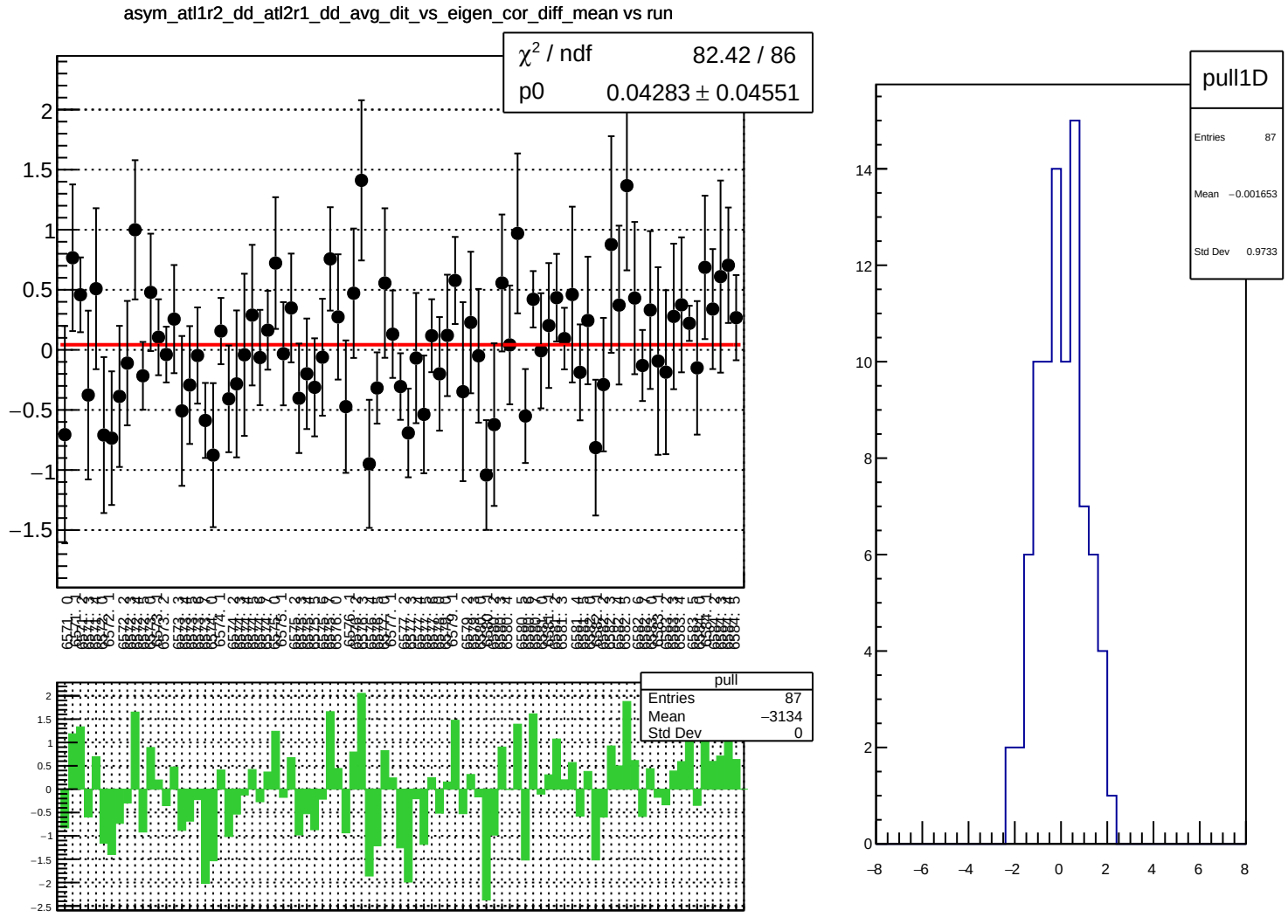

pull1D
Entries 87
Mean −0.06122
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

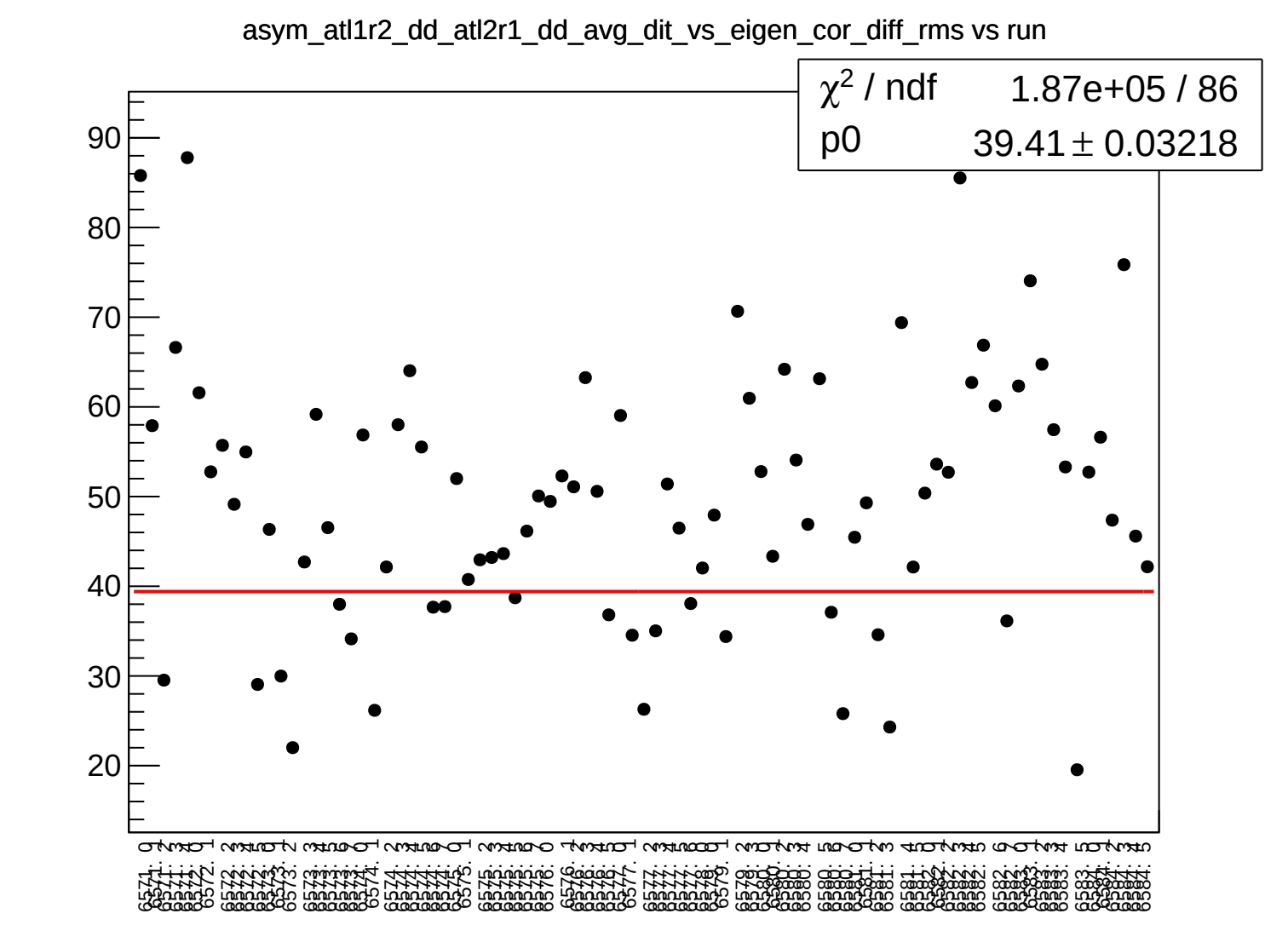

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.16e+06 / 86
p0 2.5e−12 ± 3.443e−15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

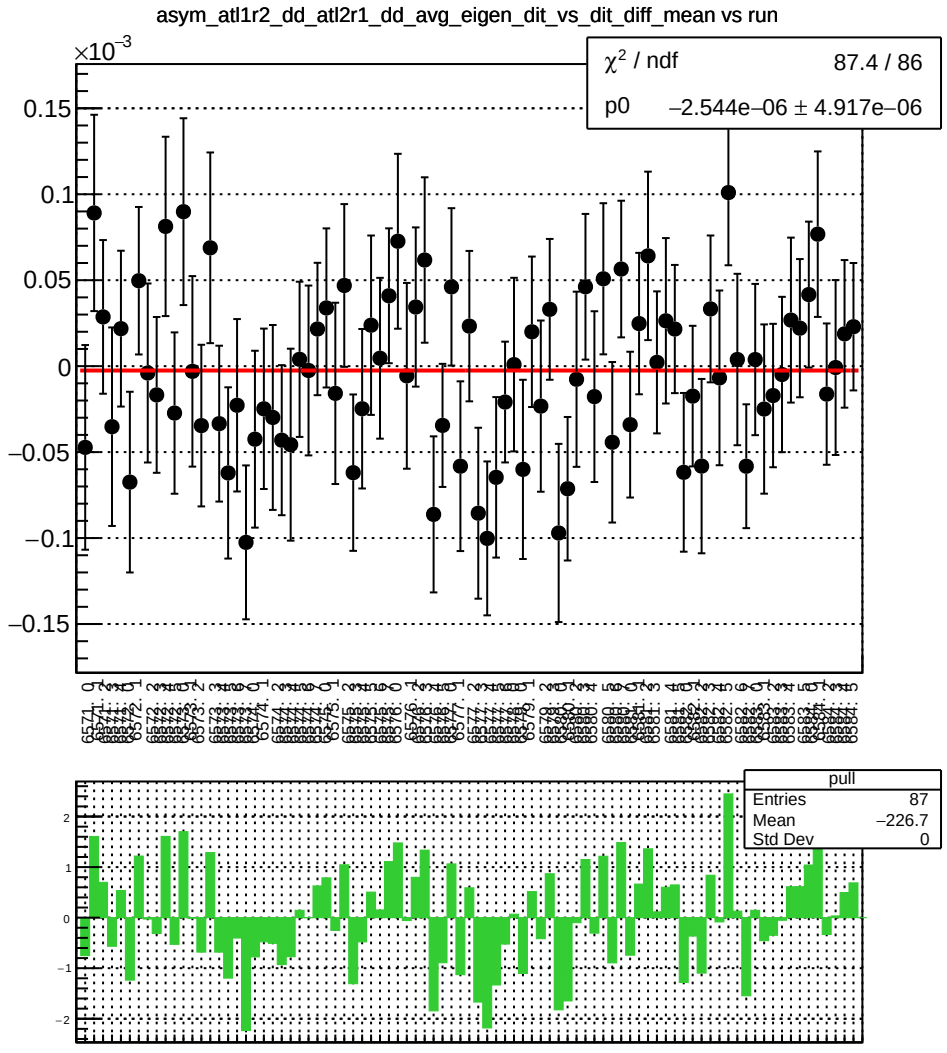

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.42 / 86
p0 0.04283 ± 0.04551
pull
Entries 87
Mean −3134
Std Dev 0

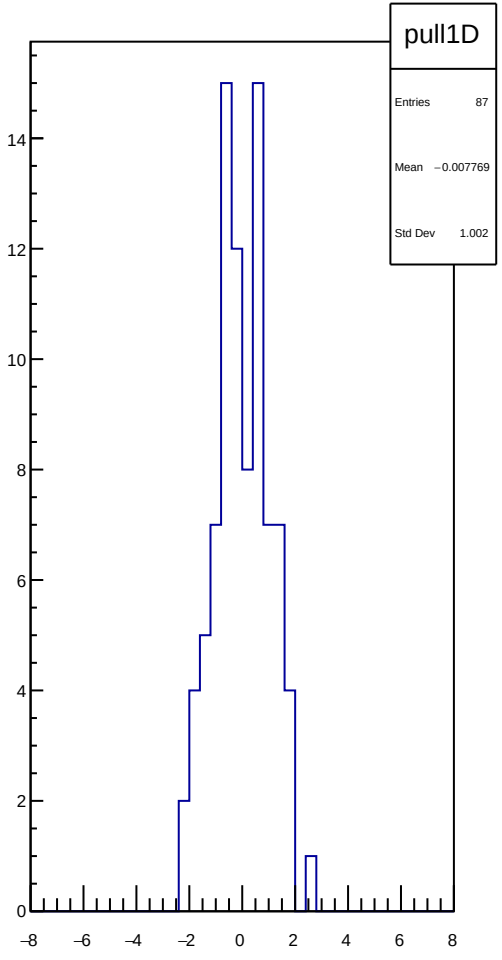

pull1D
Entries 87
Mean −0.001653
Std Dev 0.9733

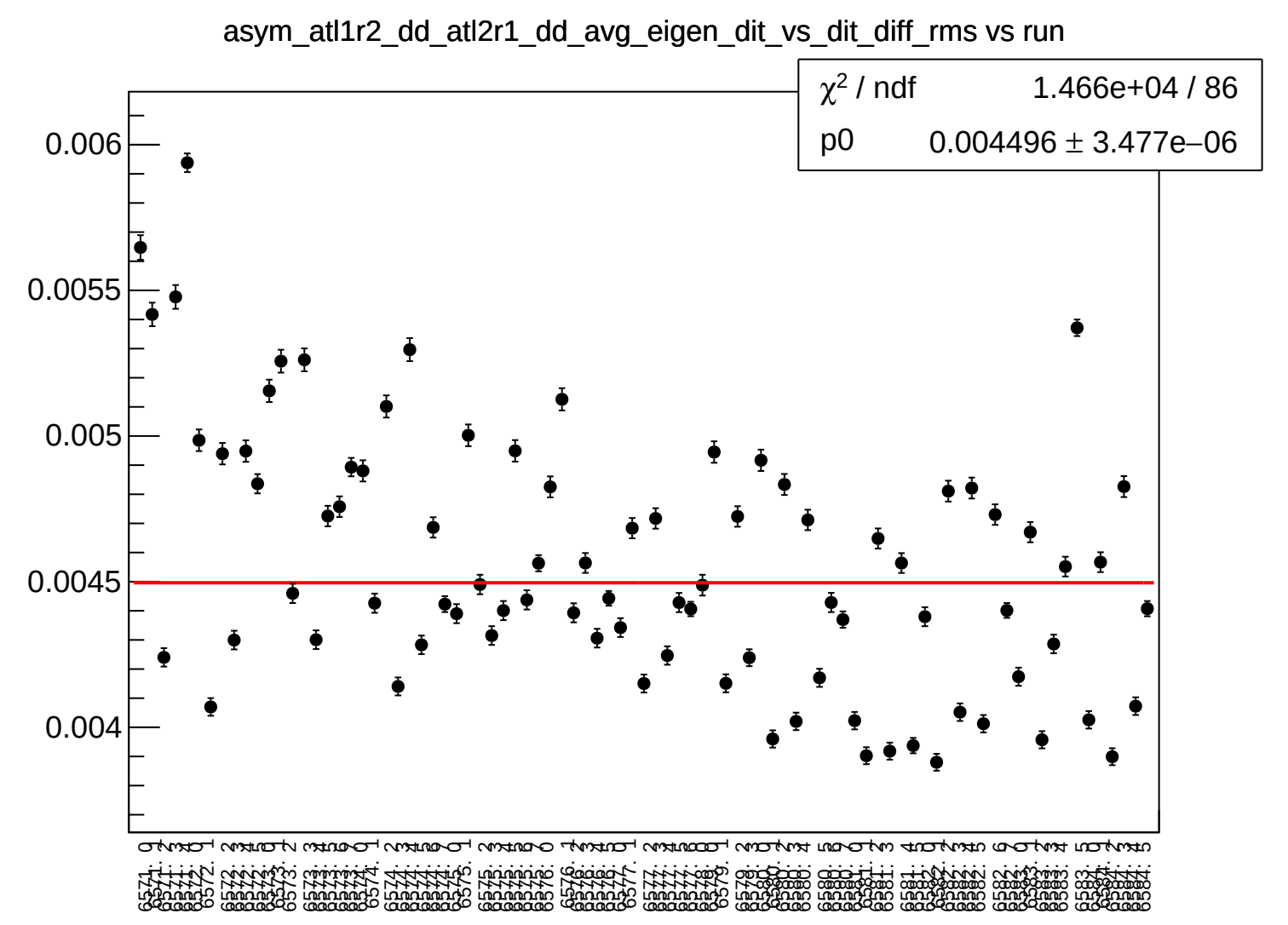

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.87e+05 / 86
p0 39.41 ± 0.03218
90
80
70
60
50
40
30
20

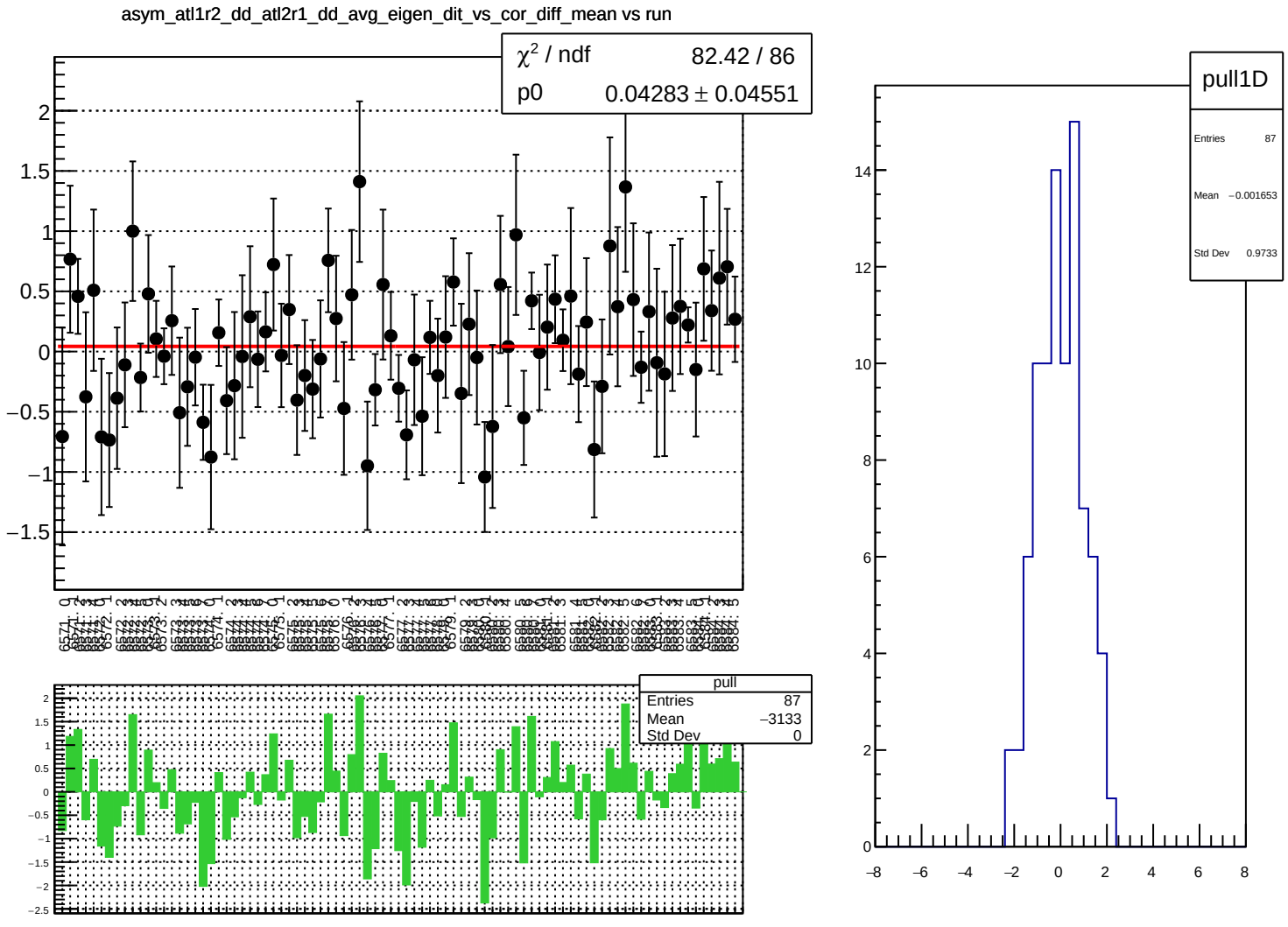

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.42 / 86
p0 0.04283 ± 0.04551
pull
Entries 87
Mean −3134
Std Dev 0
pull1D
Entries 87
Mean −0.001653
Std Dev 0.9733

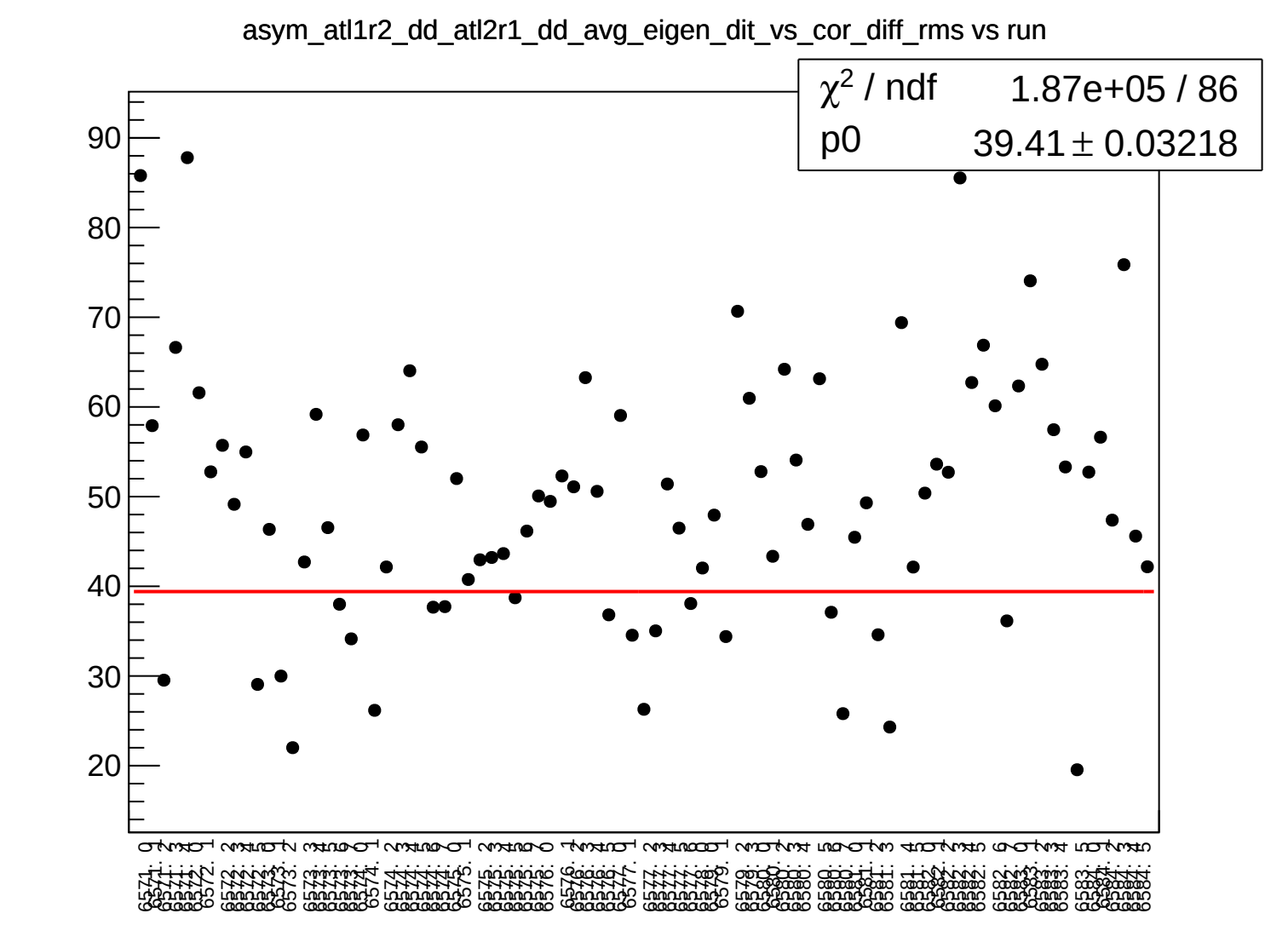

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 86
p0 39.41 ± 0.03218
90
80
70
60
50
40
30
20

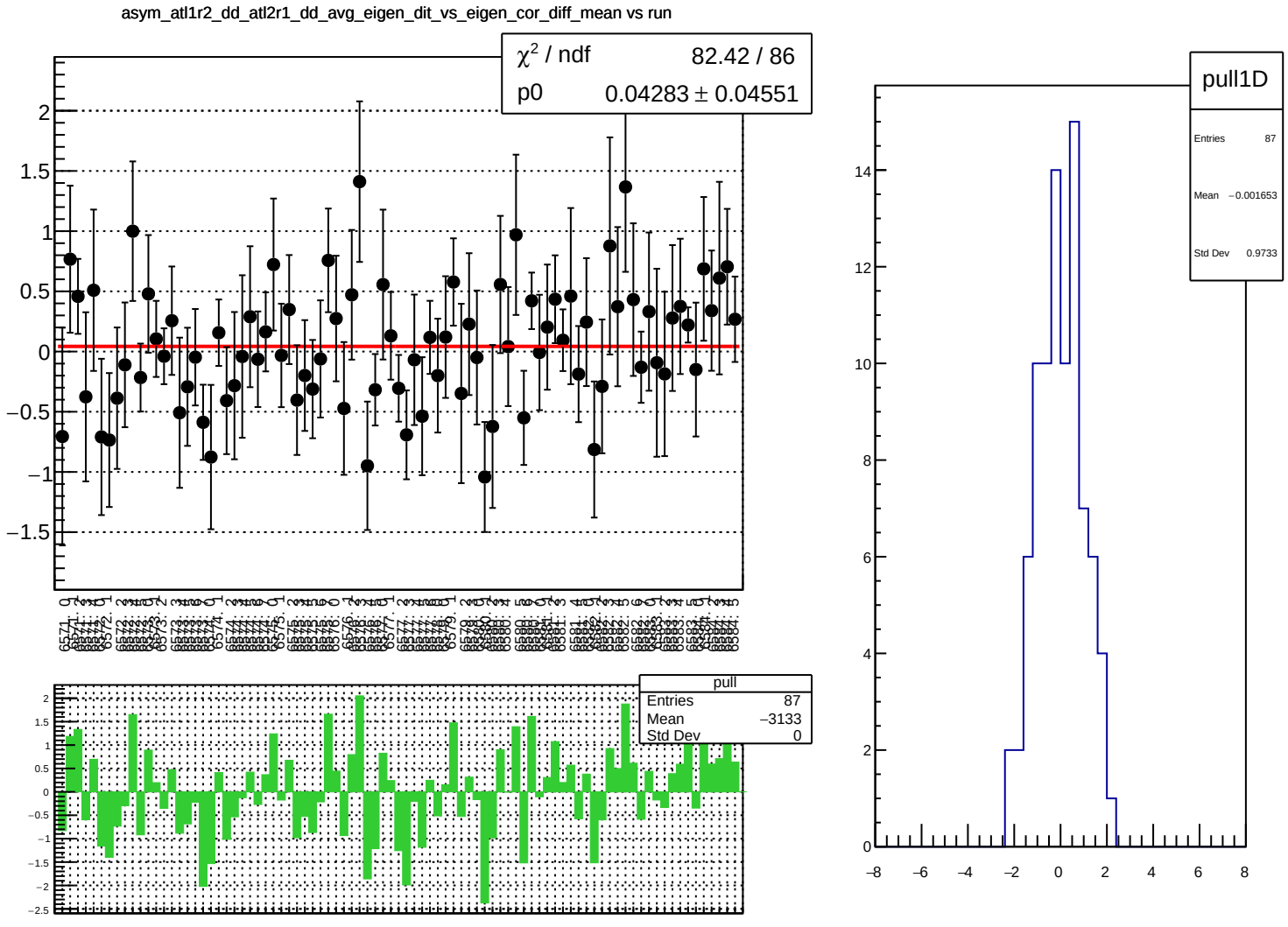

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.4 / 86
p0 −2.544e−06 ± 4.917e−06
pull
Entries 87
Mean −226.7
Std Dev 0

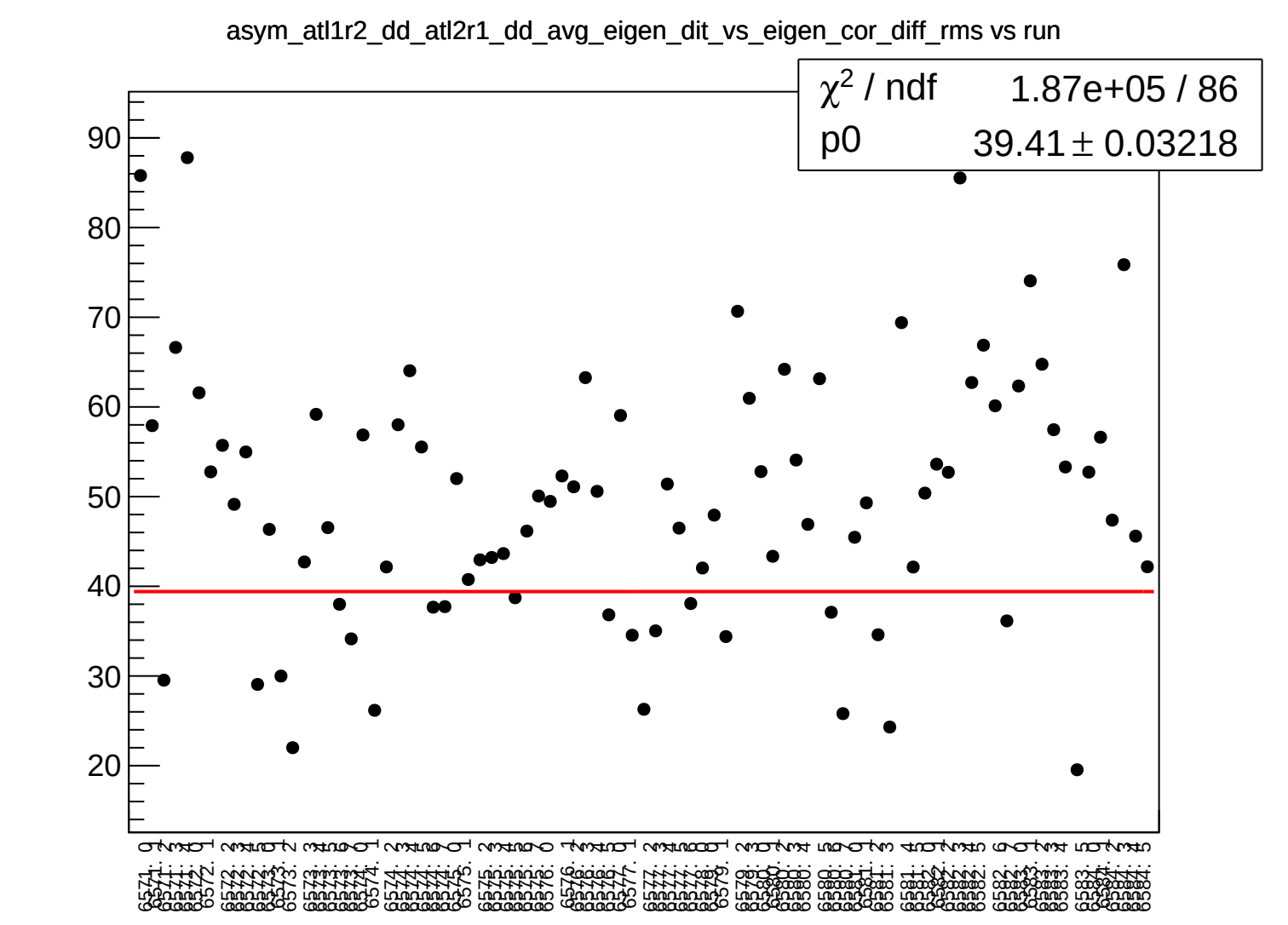

pull1D
Entries 87
Mean −0.007769
Std Dev 1.002

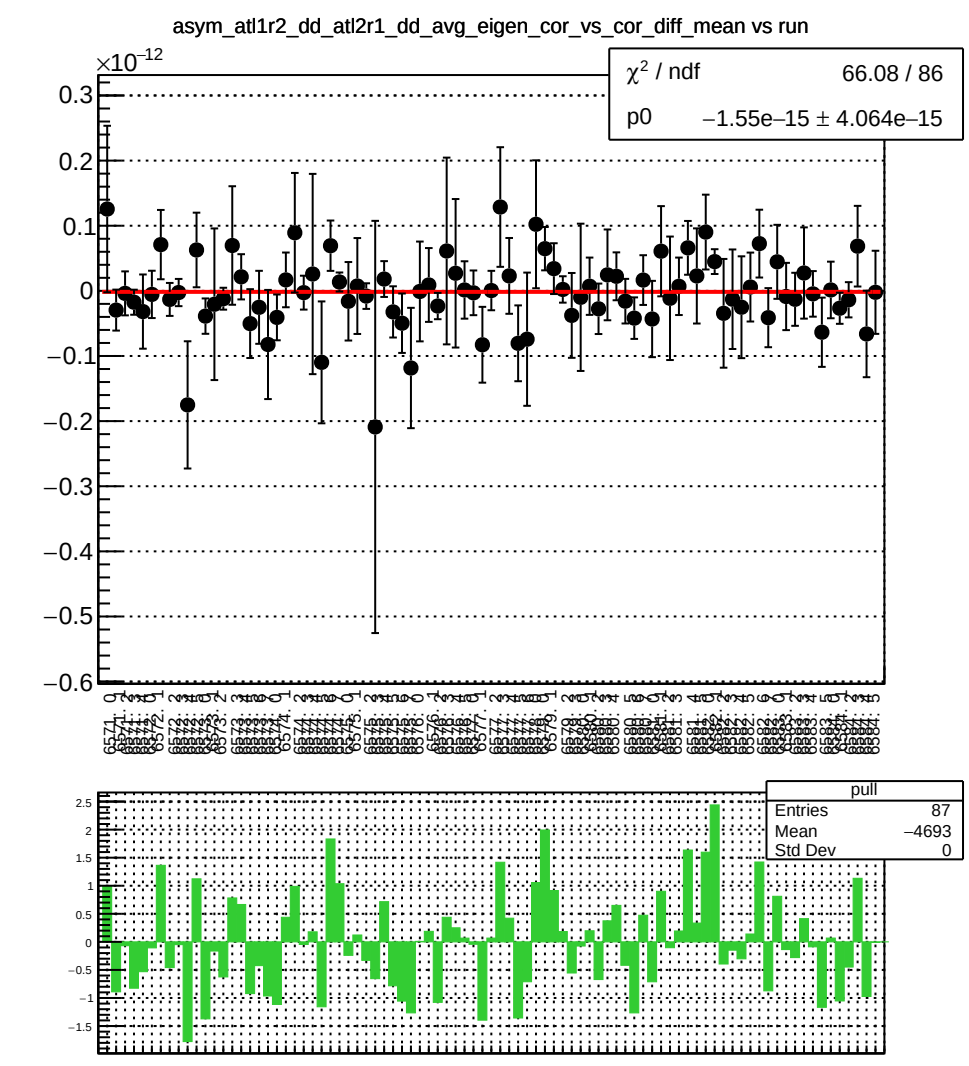

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.466e+04 / 86
p0 0.004496 ± 3.477e−06
0.006
0.0055
0.005
0.0045
0.004

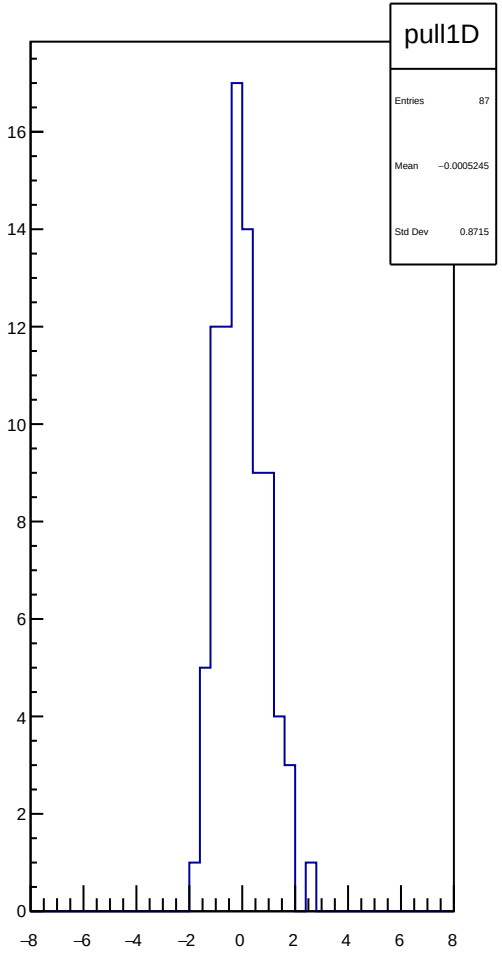

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.42 / 86
p0 0.04283 ± 0.04551
pull
Entries 87
Mean −3133
Std Dev 0
pull1D
Entries 87
Mean −0.001653
Std Dev 0.9733

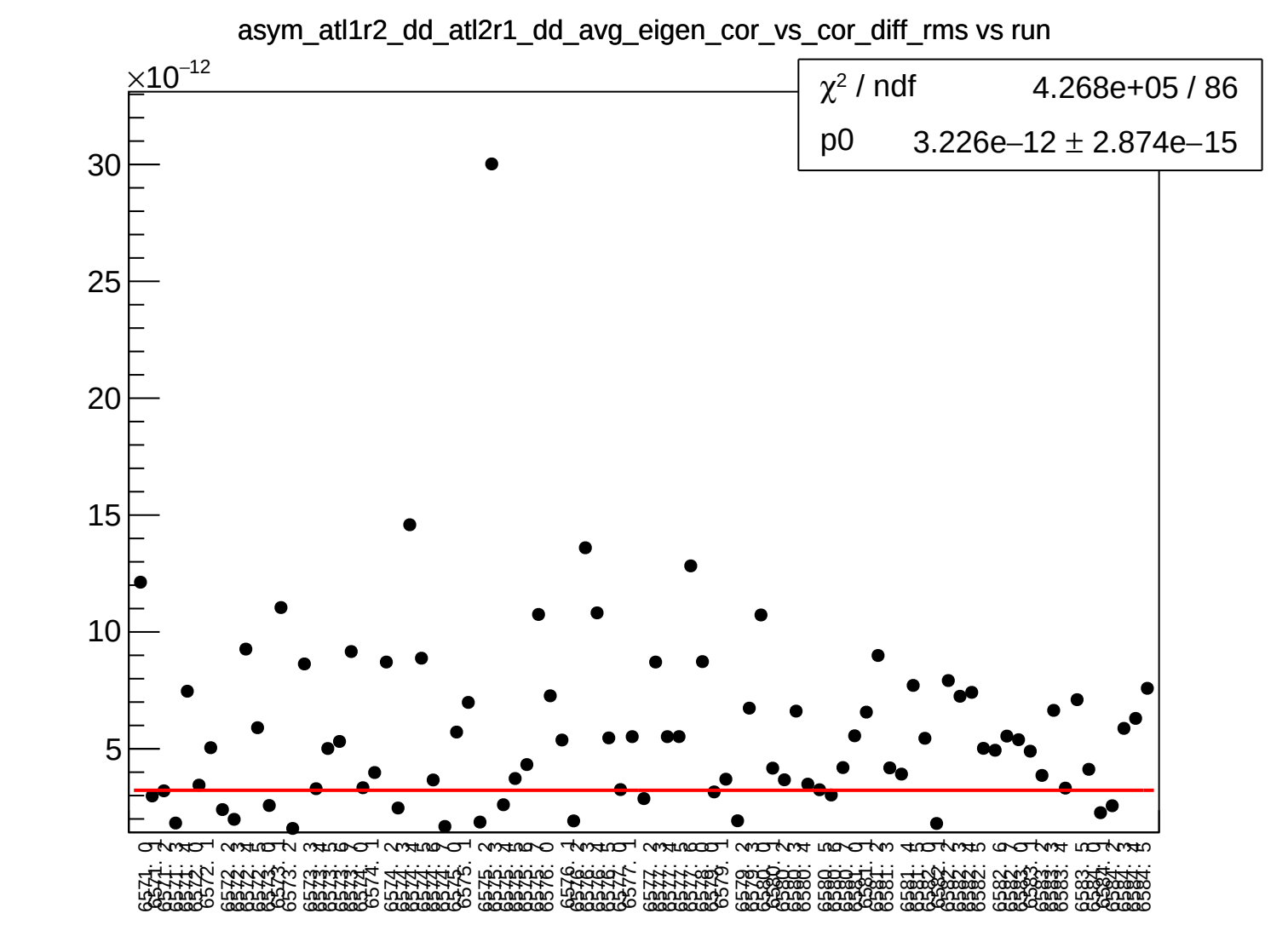

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 86
p0 39.41 ± 0.03218
90
80
70
60
50
40
30
20

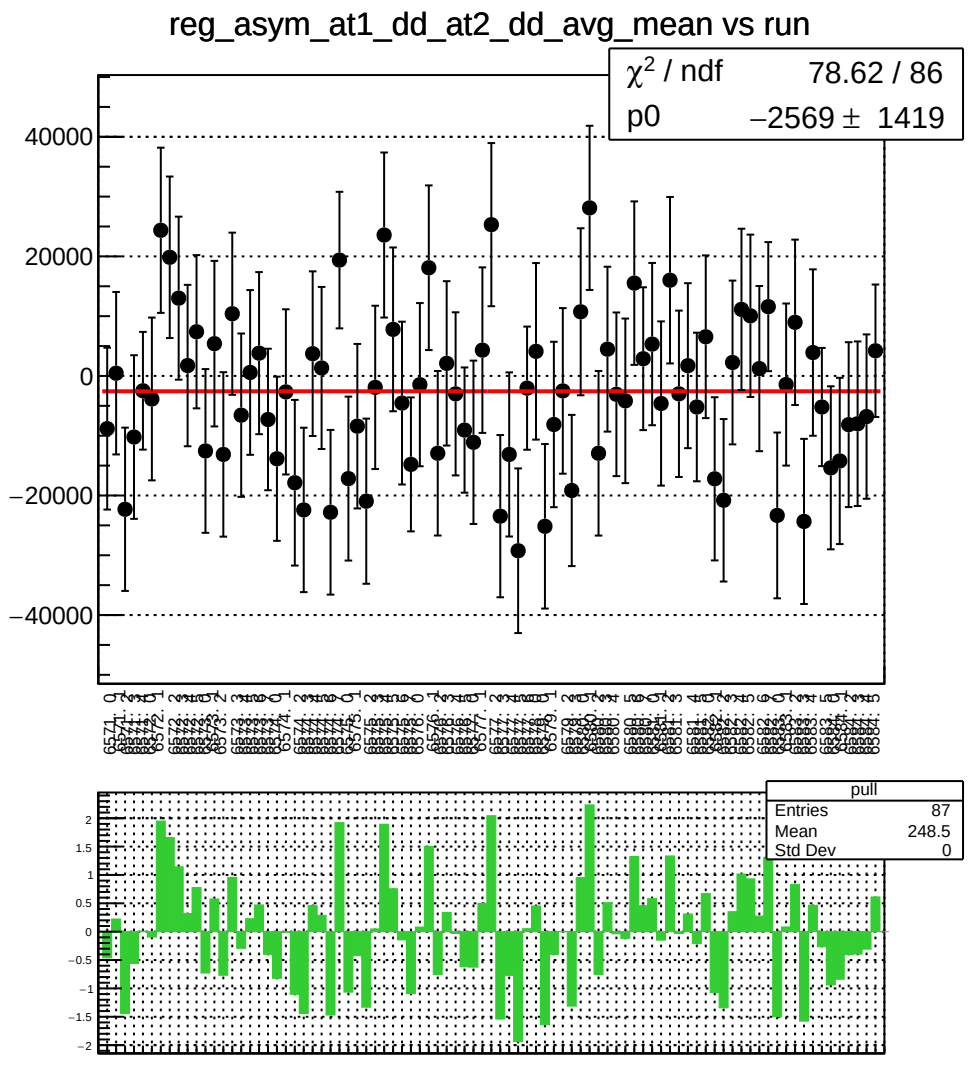

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.42 / 86
p0 0.04283 ± 0.04551
pull
Entries 87
Mean −3133
Std Dev 0
pull1D
Entries 87
Mean −0.001653
Std Dev 0.9733

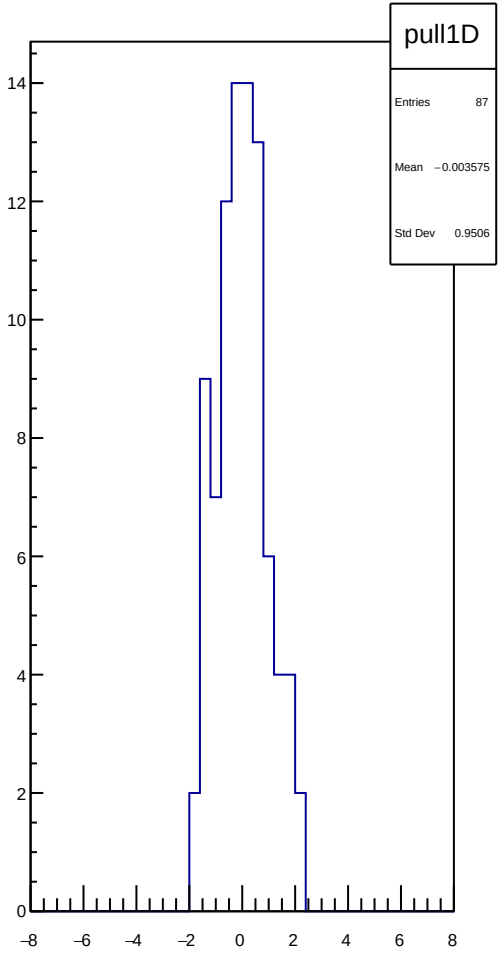

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 86
p0 39.41 ± 0.03218
90
80
70
60
50
40
30
20

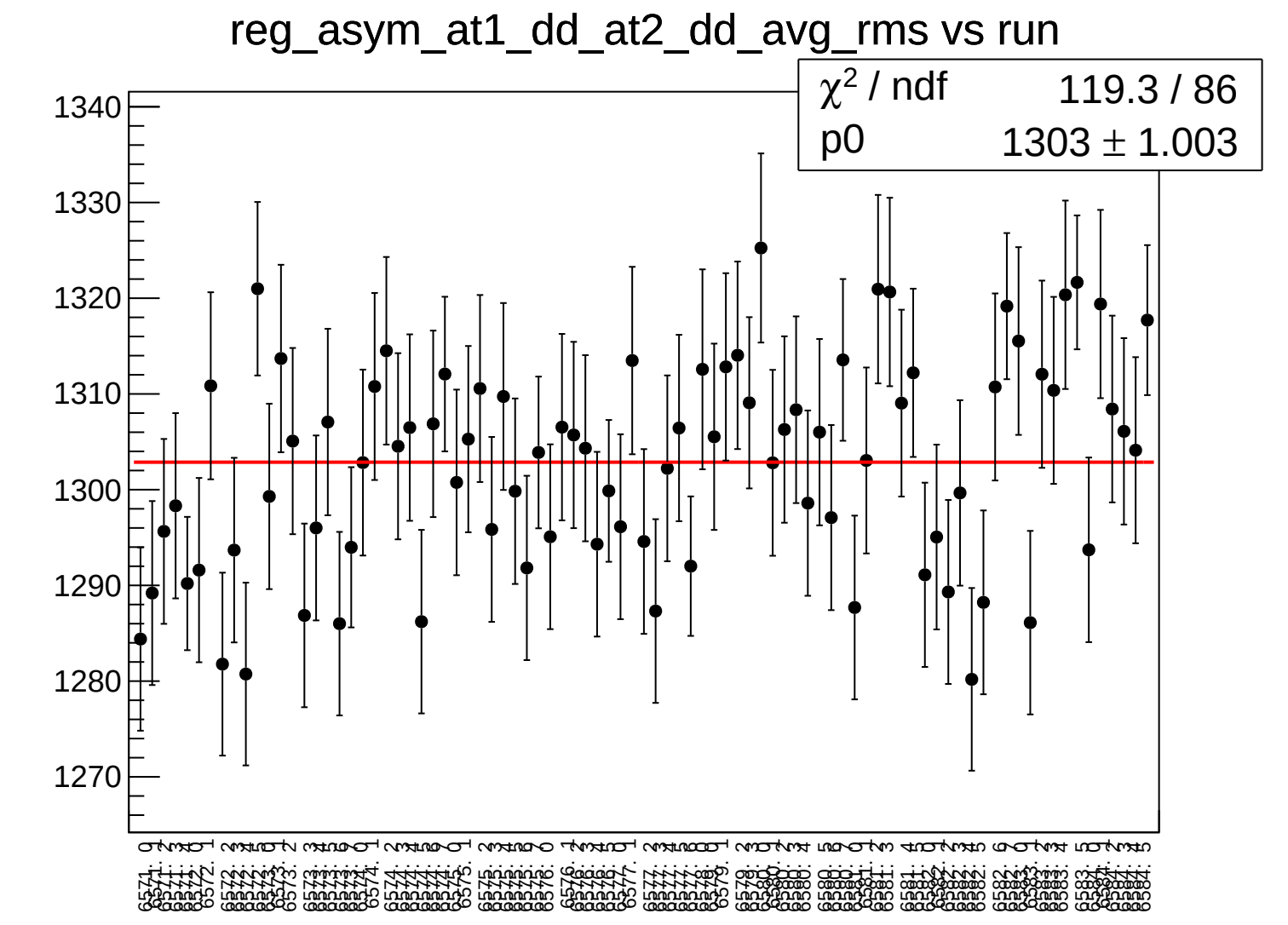

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.08 / 86
p0 −1.55e−15 ± 4.064e−15
pull
Entries 87
Mean −4693
Std Dev 0

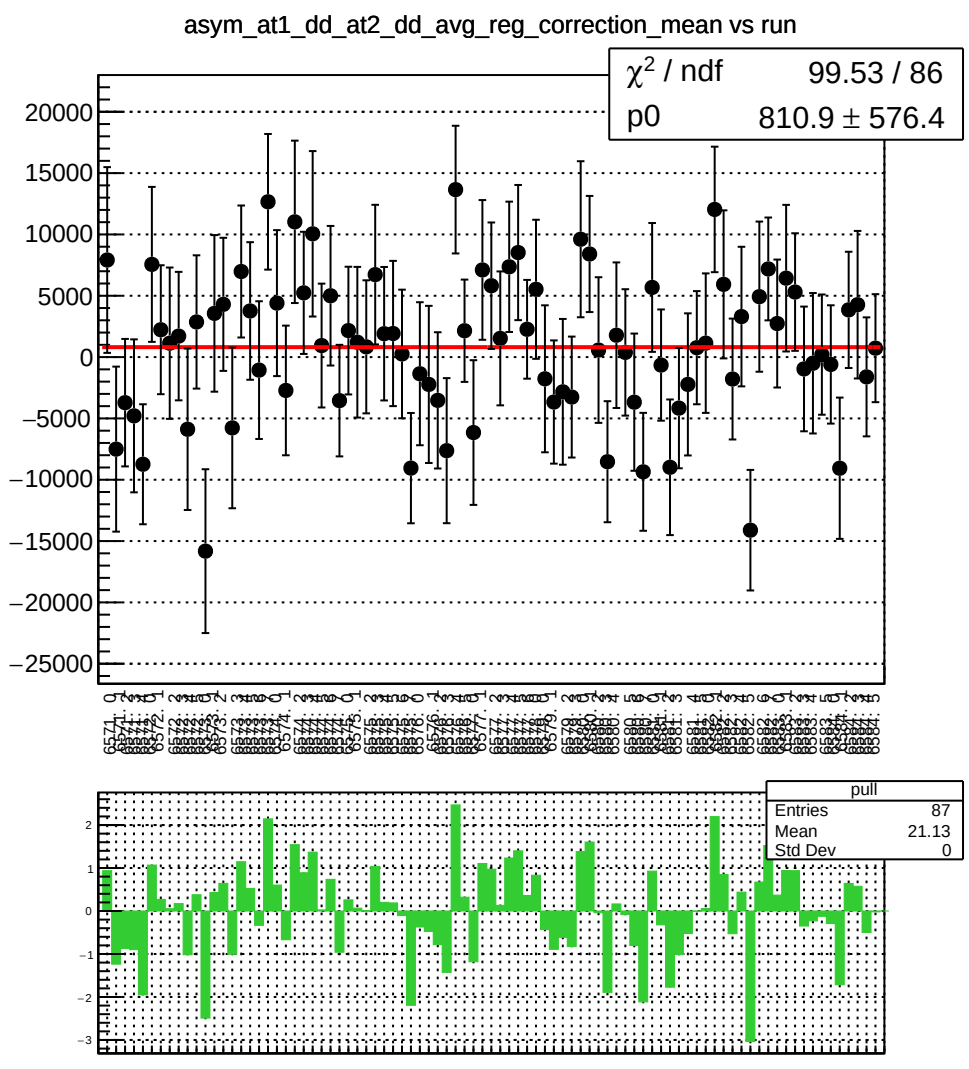

pull1D
Entries 87
Mean −0.0005245
Std Dev 0.8715

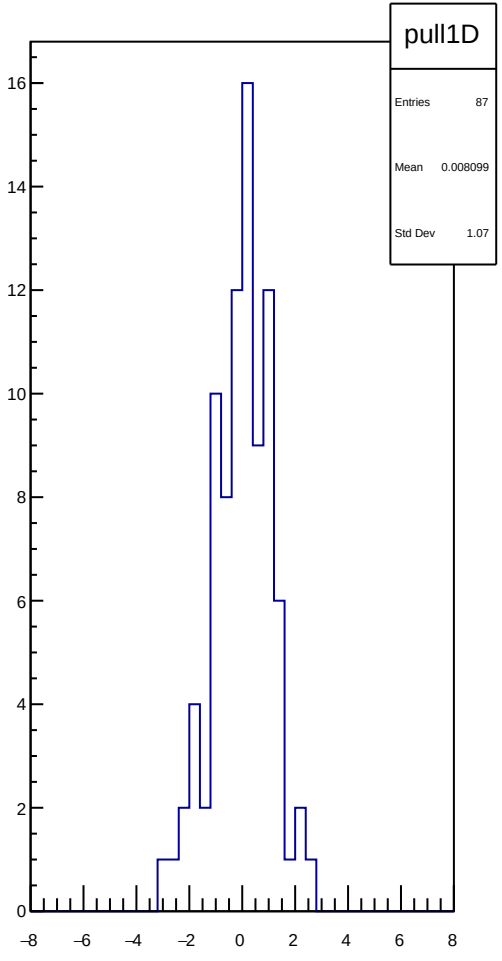

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.268e+05 / 86
p0 3.226e−12 ± 2.874e−15
30
25
20
15
10
5

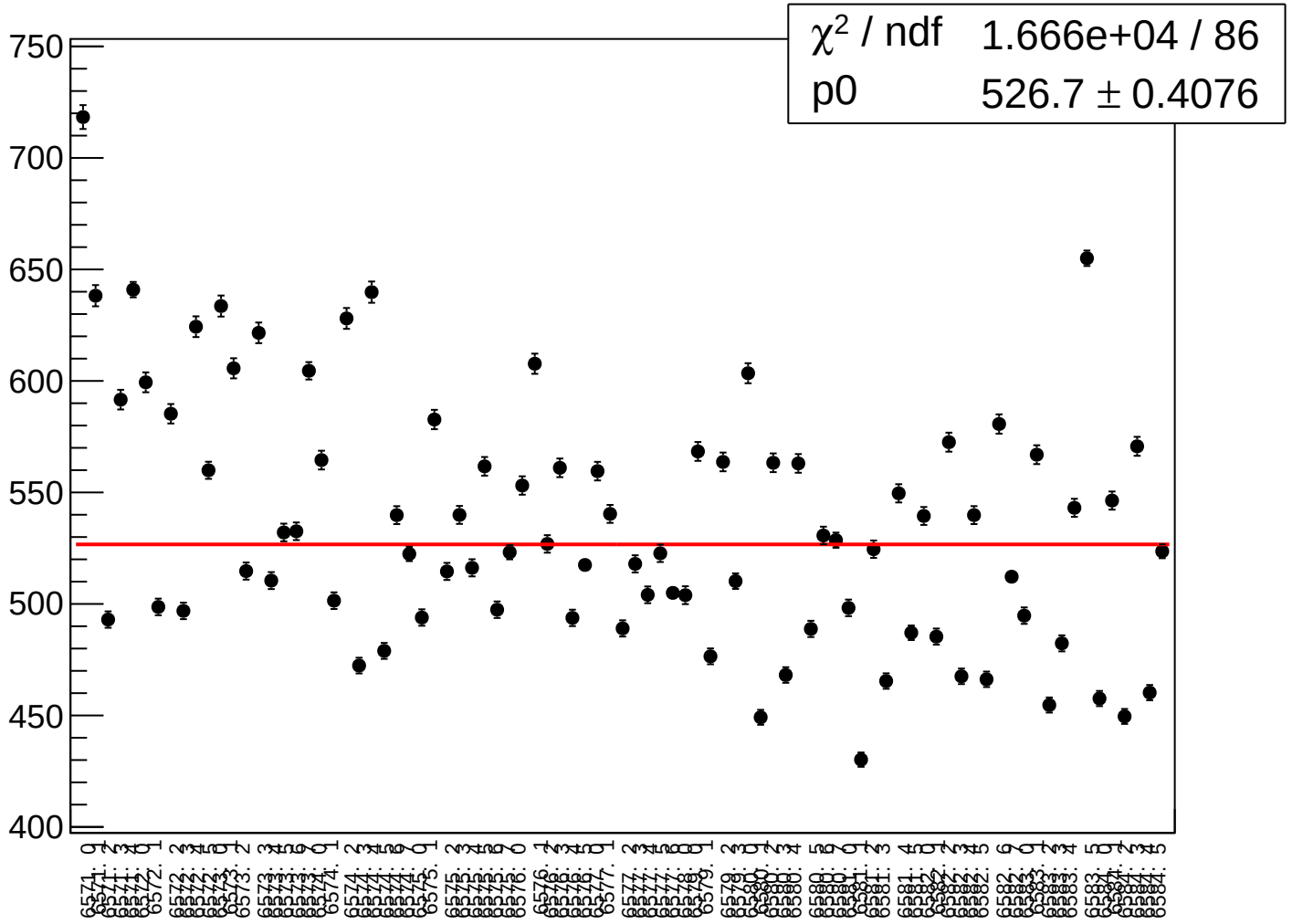

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 78.62 / 86
p0 −2569 ± 1419
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 248.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

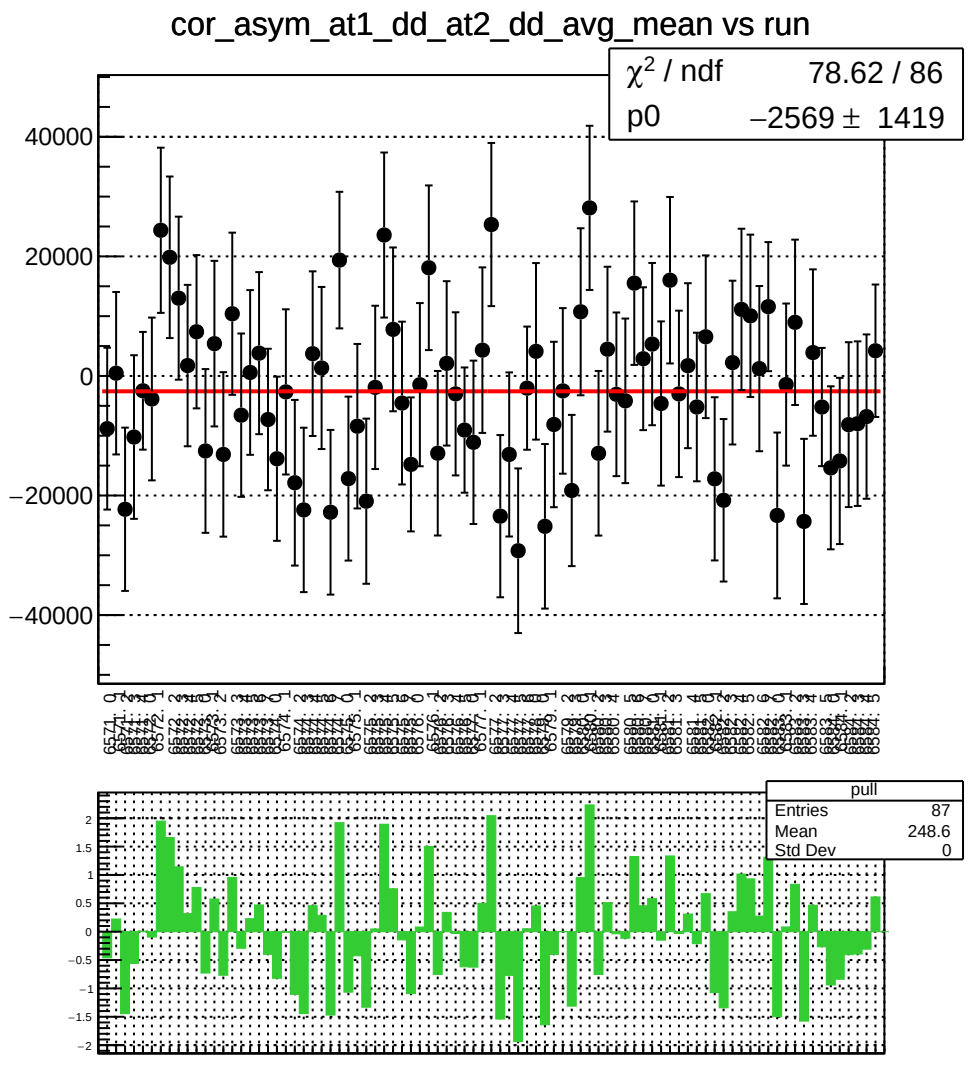

pull1D
Entries 87
Mean −0.003575
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

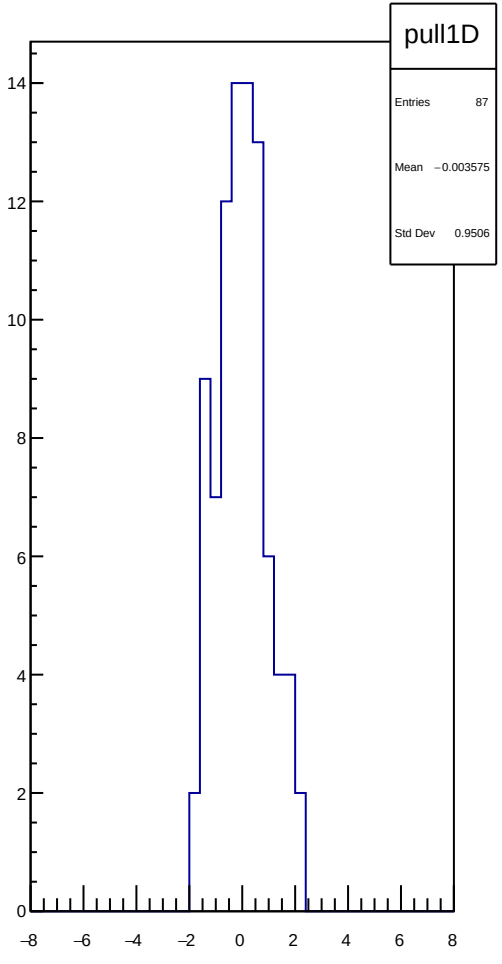

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 119.3 / 86
p0 1303 ± 1.003
1340
1330
1320
1310
1300
1290
1280
1270

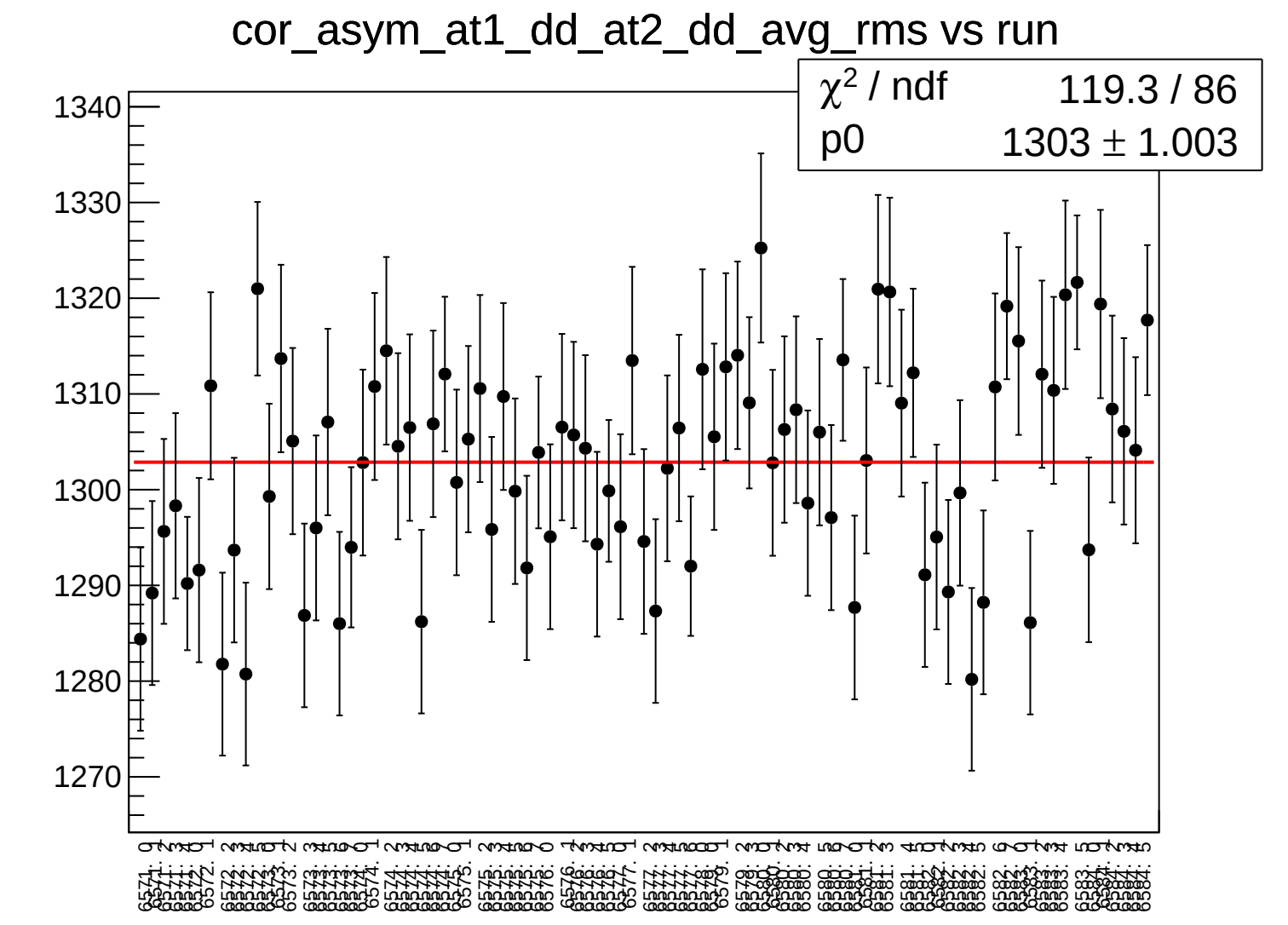

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 99.53 / 86
p0 810.9 ± 576.4
pull
Entries 87
Mean 21.13
Std Dev 0

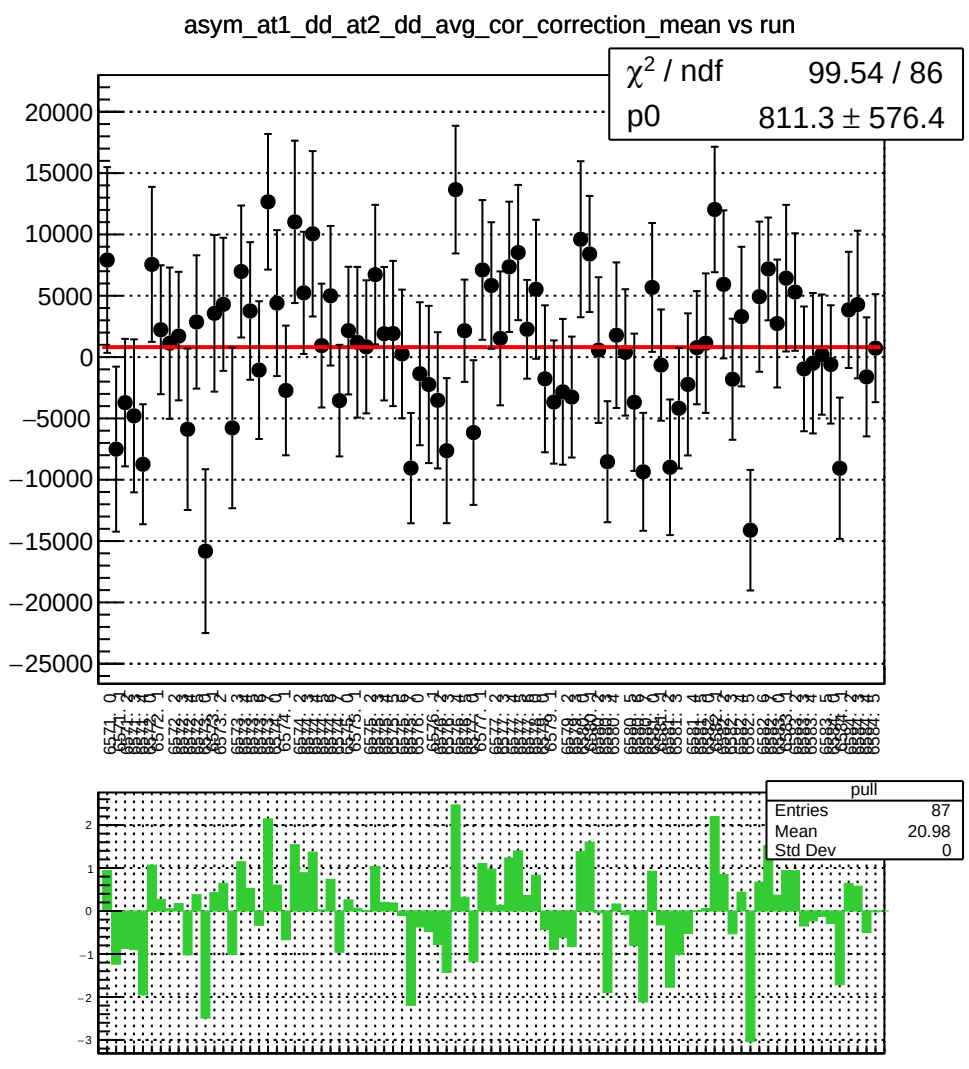

pull1D
Entries 87
Mean 0.008099
Std Dev 1.07

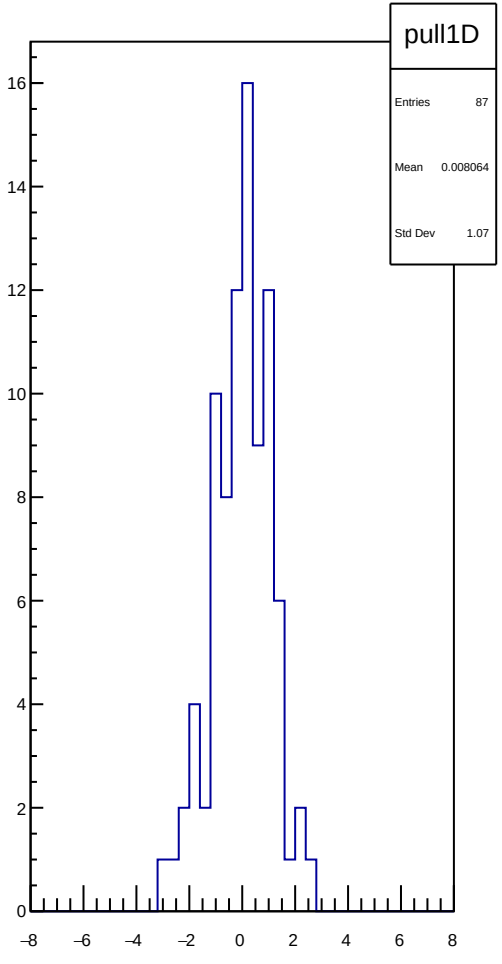

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.666e+04 / 86
p0 526.7 ± 0.4076
750
700
650
600
550
500
450
400

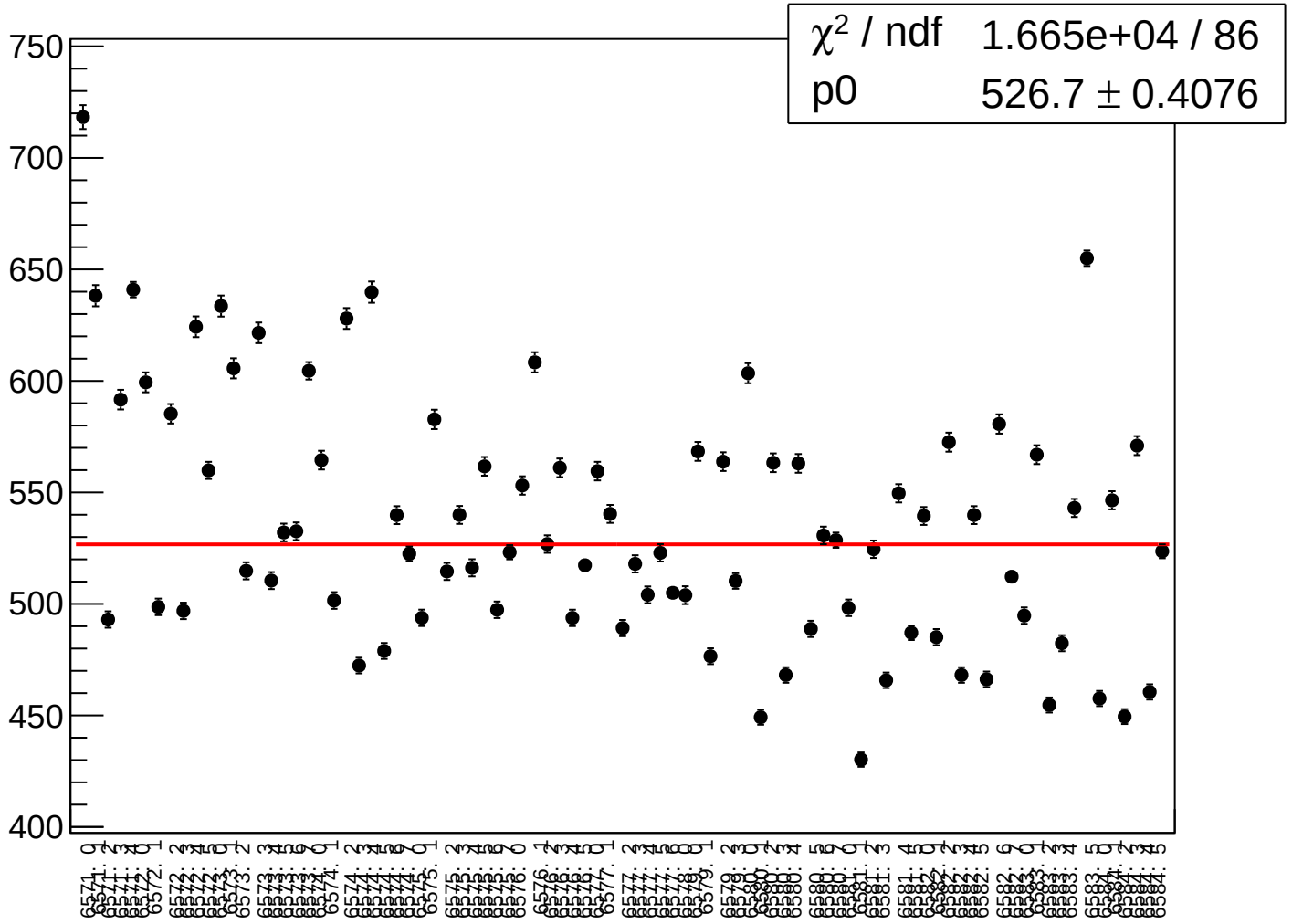

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 78.62 / 86
p0 −2569 ± 1419
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 248.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

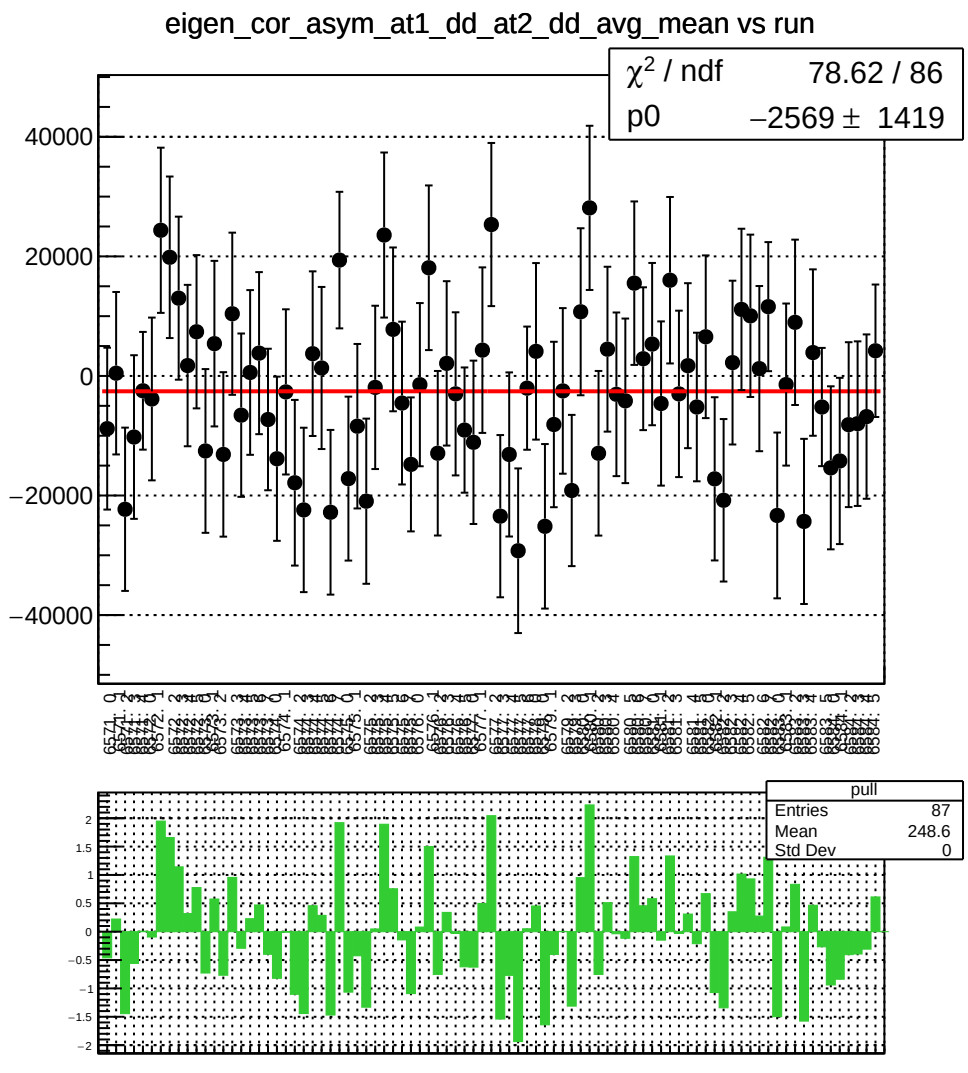

pull1D
Entries 87
Mean −0.003575
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

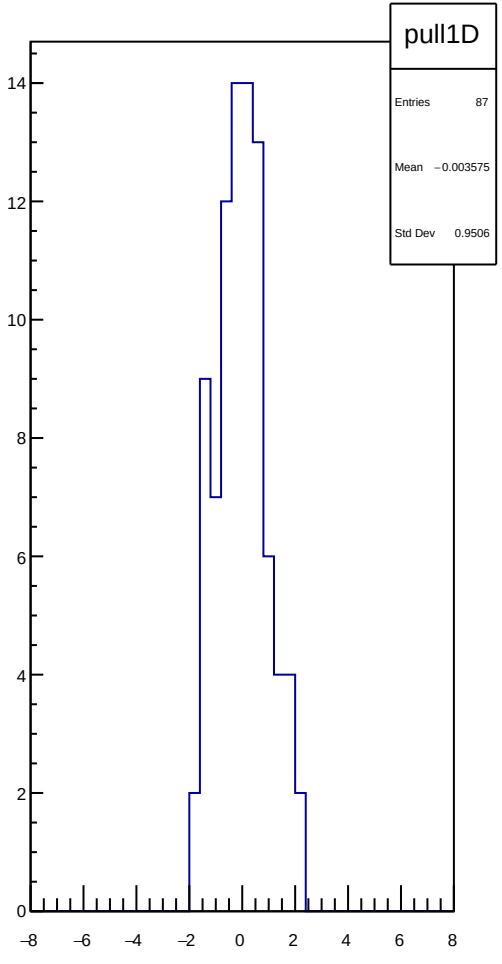

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 119.3 / 86
p0 1303 ± 1.003
1340
1330
1320
1310
1300
1290
1280
1270

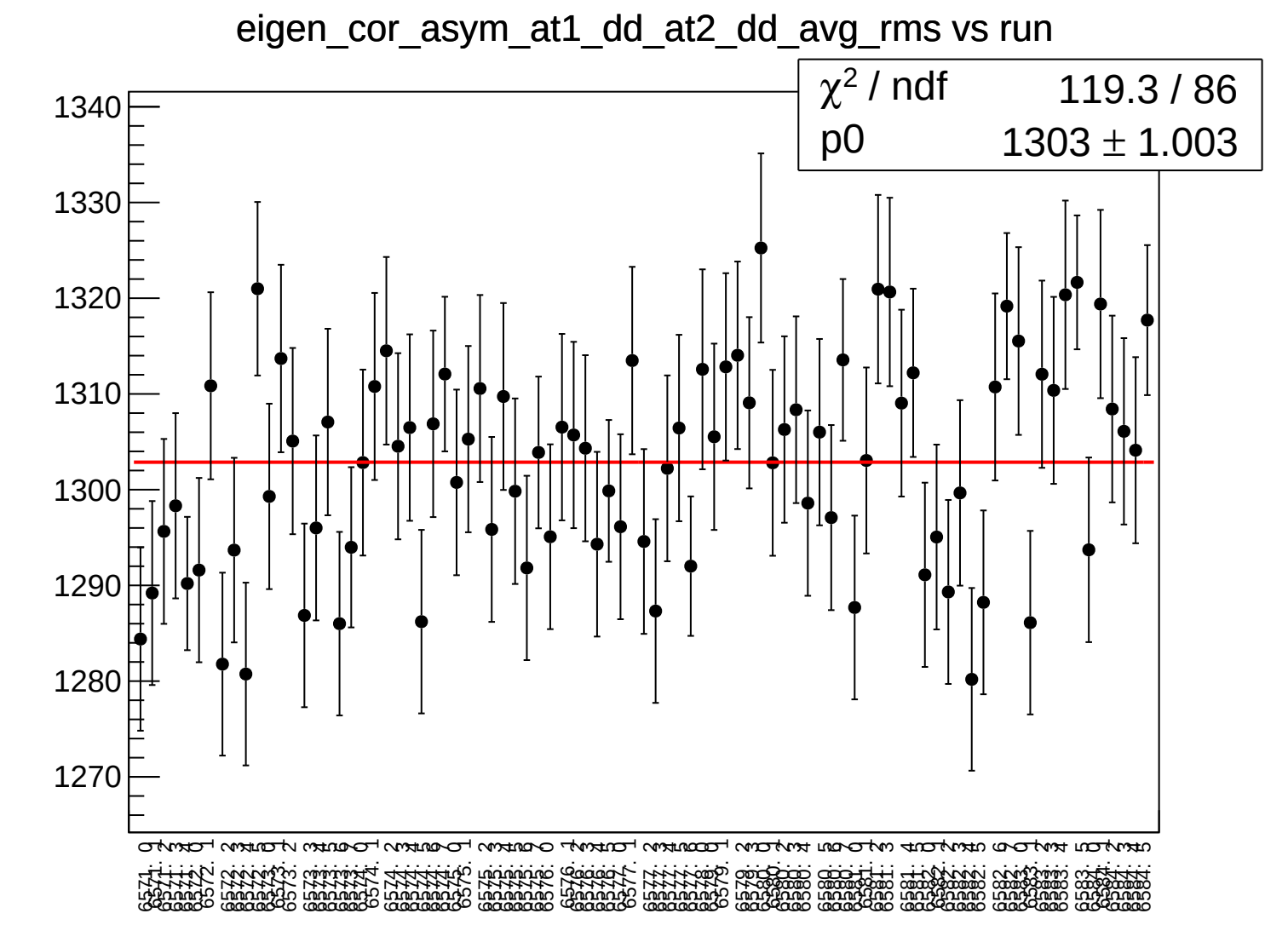

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 99.54 / 86
p0 811.3 ± 576.4
pull
Entries 87
Mean 20.98
Std Dev 0

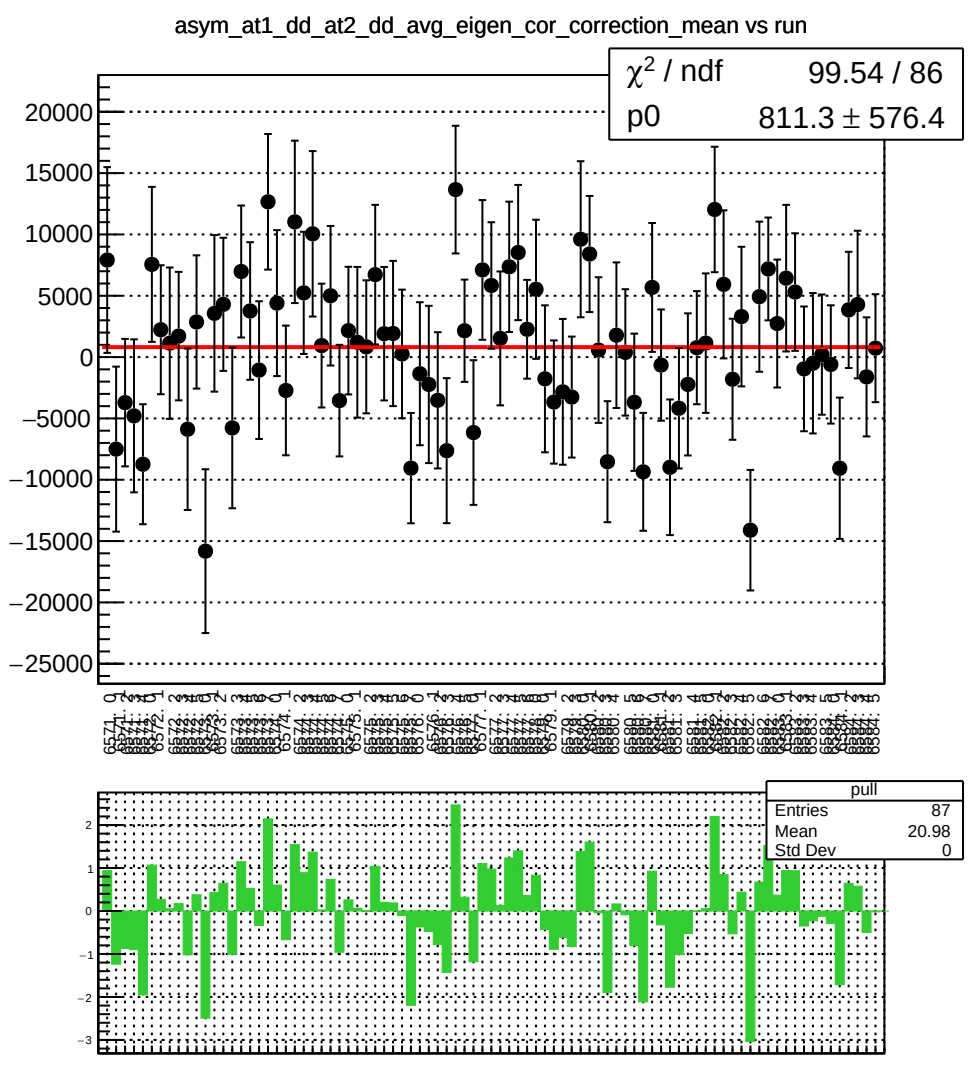

pull1D
Entries 87
Mean 0.008064
Std Dev 1.07

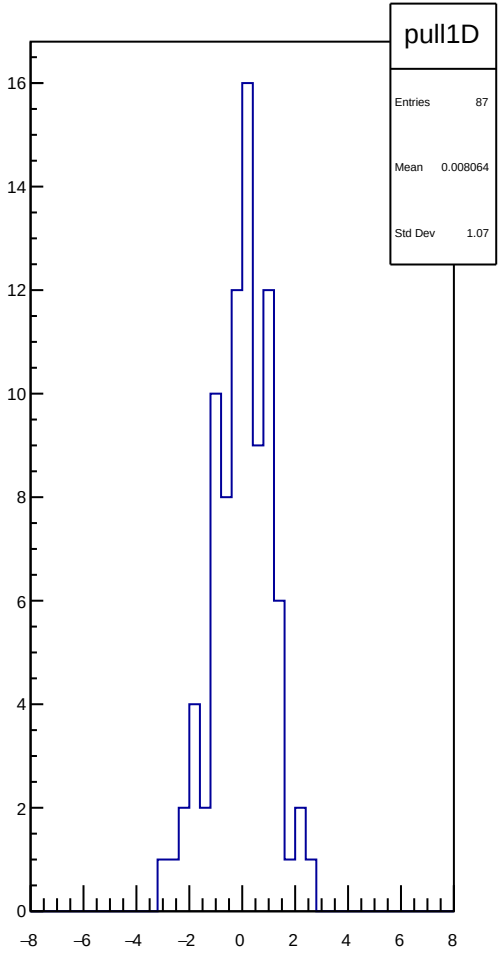

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.665e+04 / 86
p0 526.7 ± 0.4076
750
700
650
600
550
500
450
400

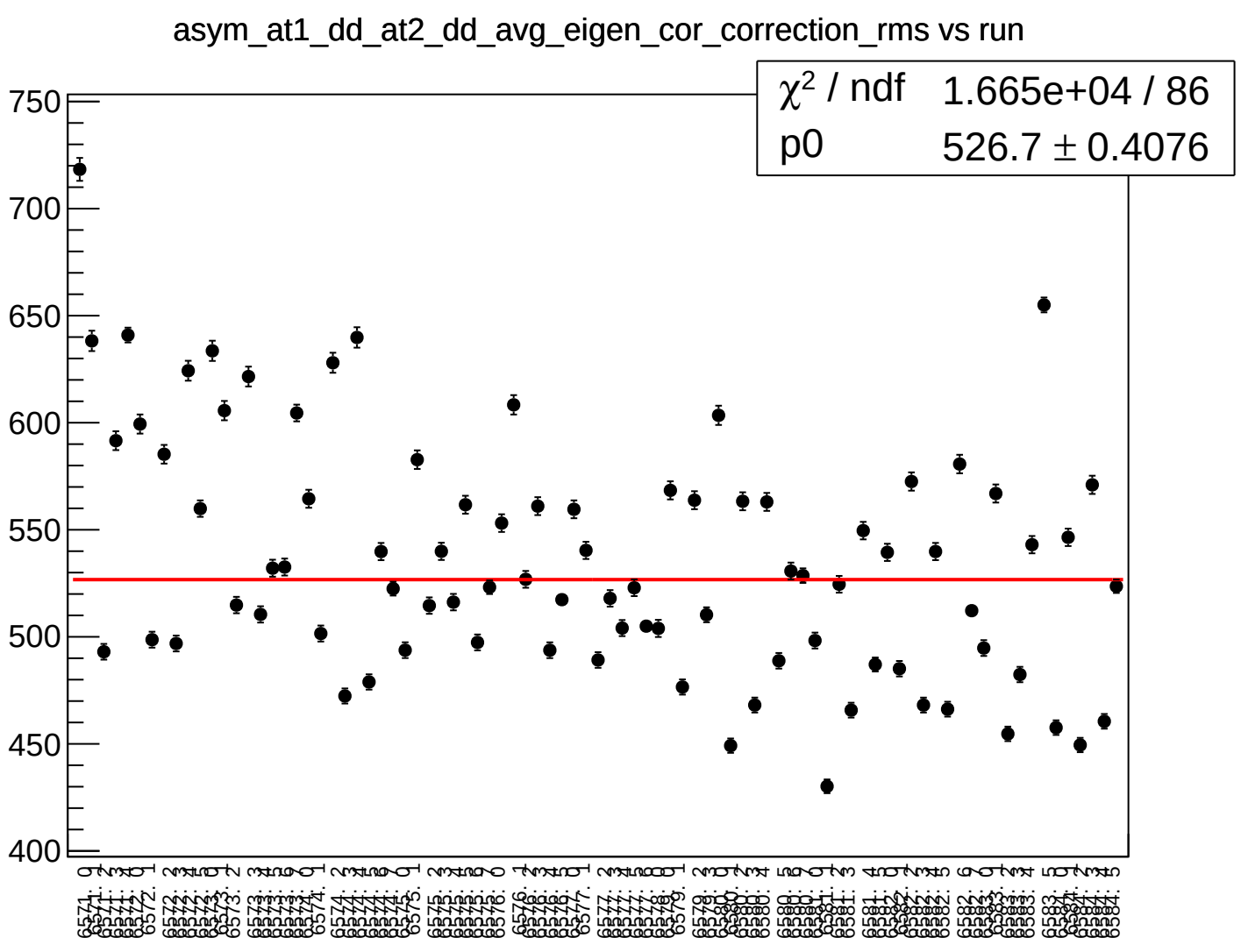

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 78.62 / 86
p0 −2569 ± 1419
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 248.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

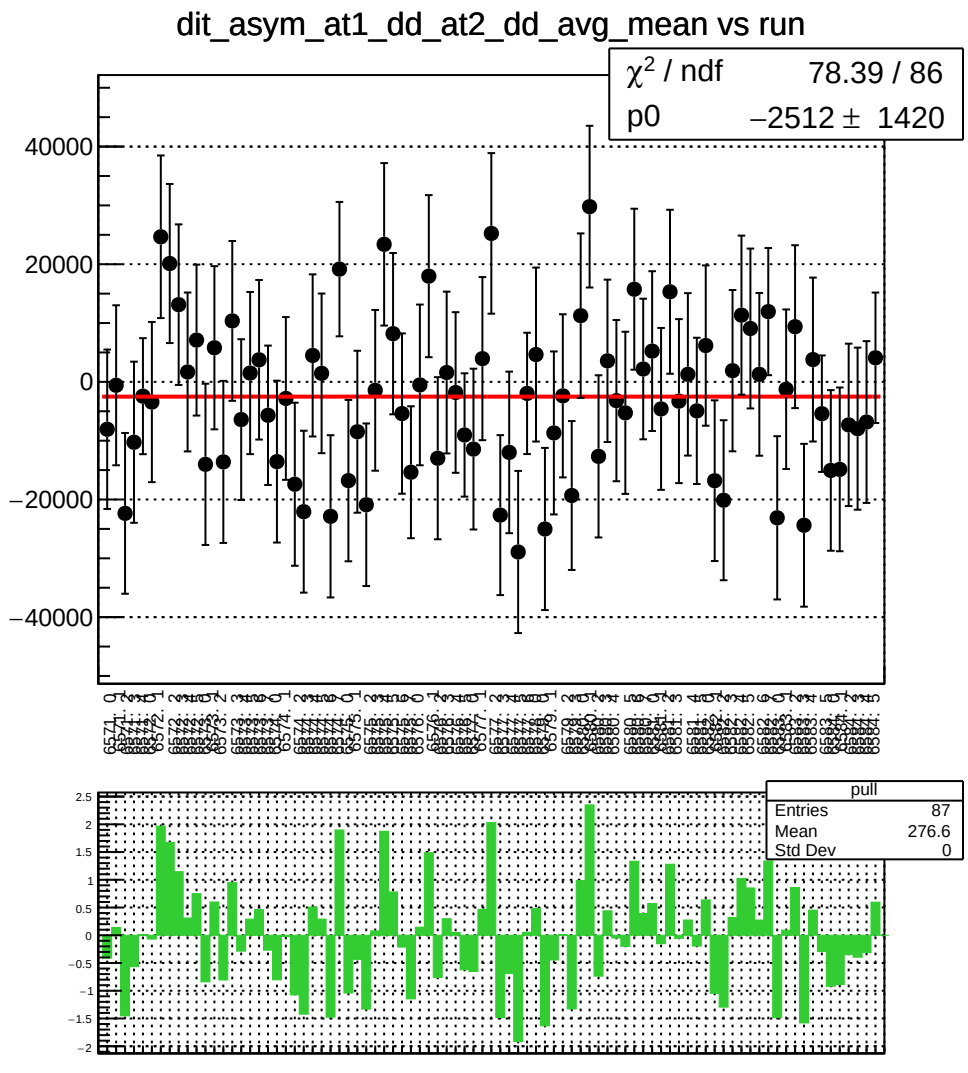

pull1D
Entries 87
Mean −0.003575
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

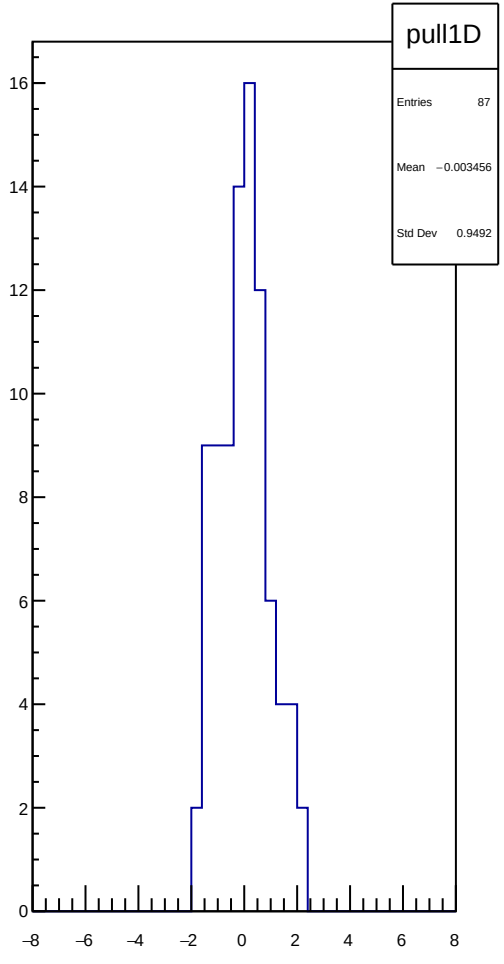

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 119.3 / 86
p0 1303 ± 1.003
1340
1330
1320
1310
1300
1290
1280
1270

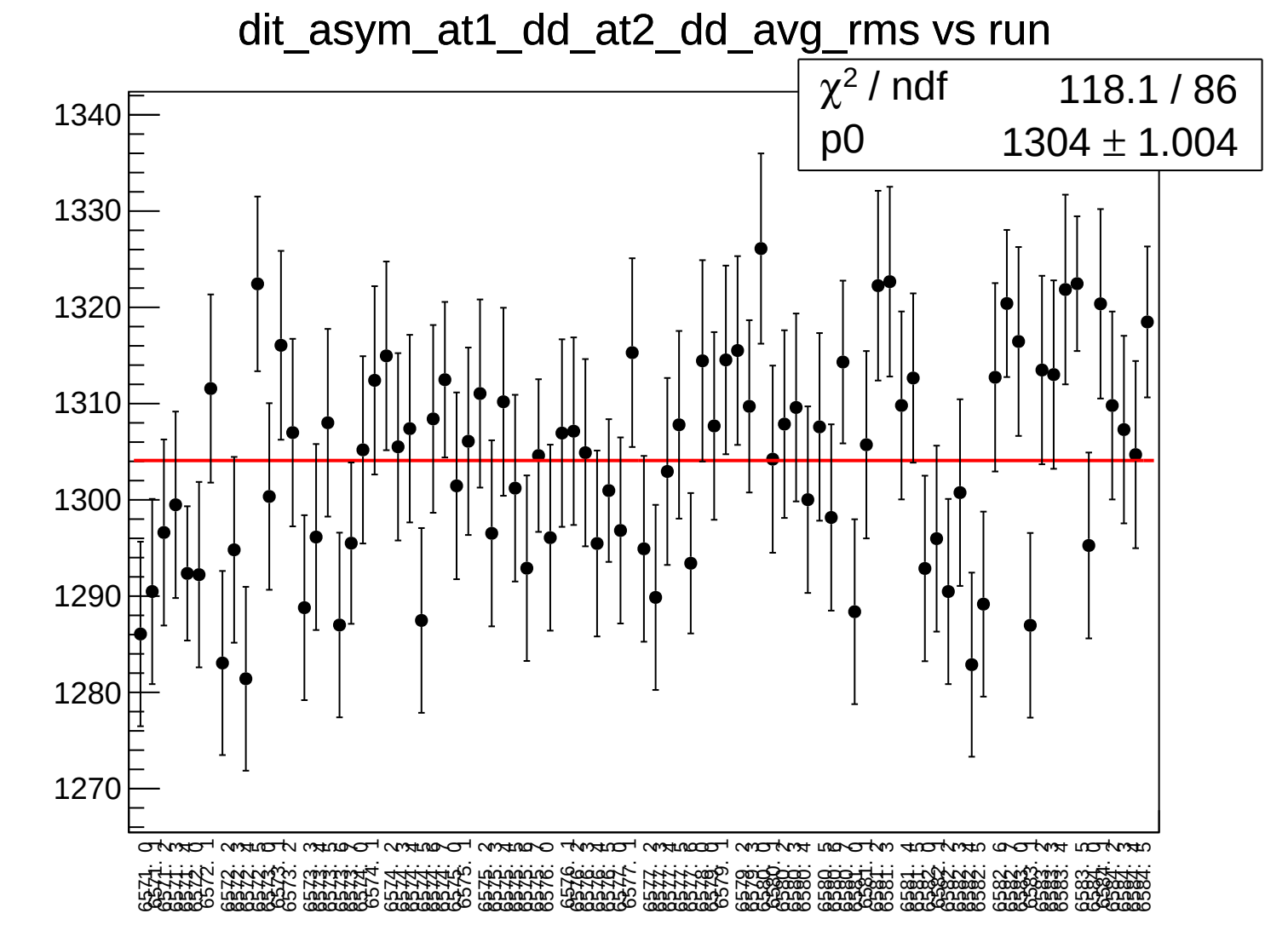

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.54 / 86
p0 811.3 ± 576.4
pull
Entries 87
Mean 20.98
Std Dev 0

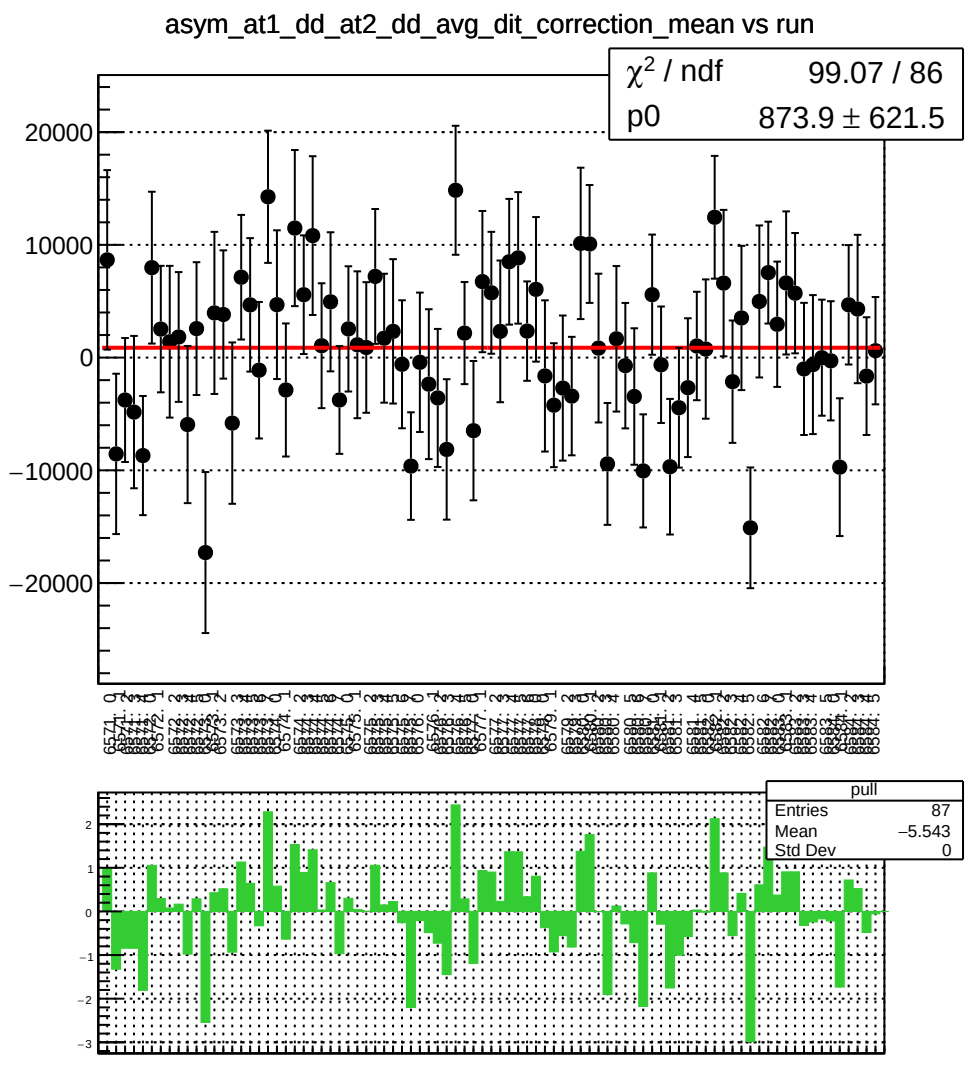

pull1D
Entries 87
Mean 0.008064
Std Dev 1.07

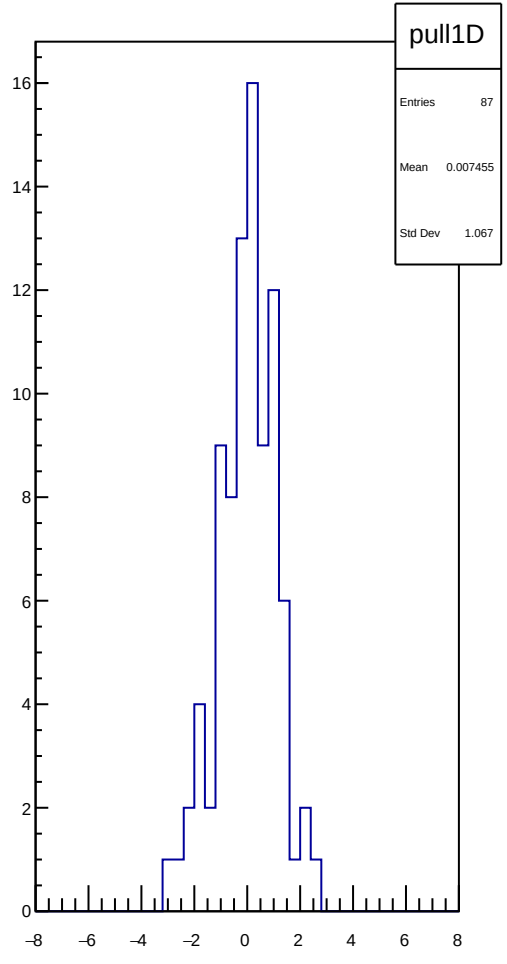

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.665e+04 / 86
p0 526.7 ± 0.4076
750
700
650
600
550
500
450
400

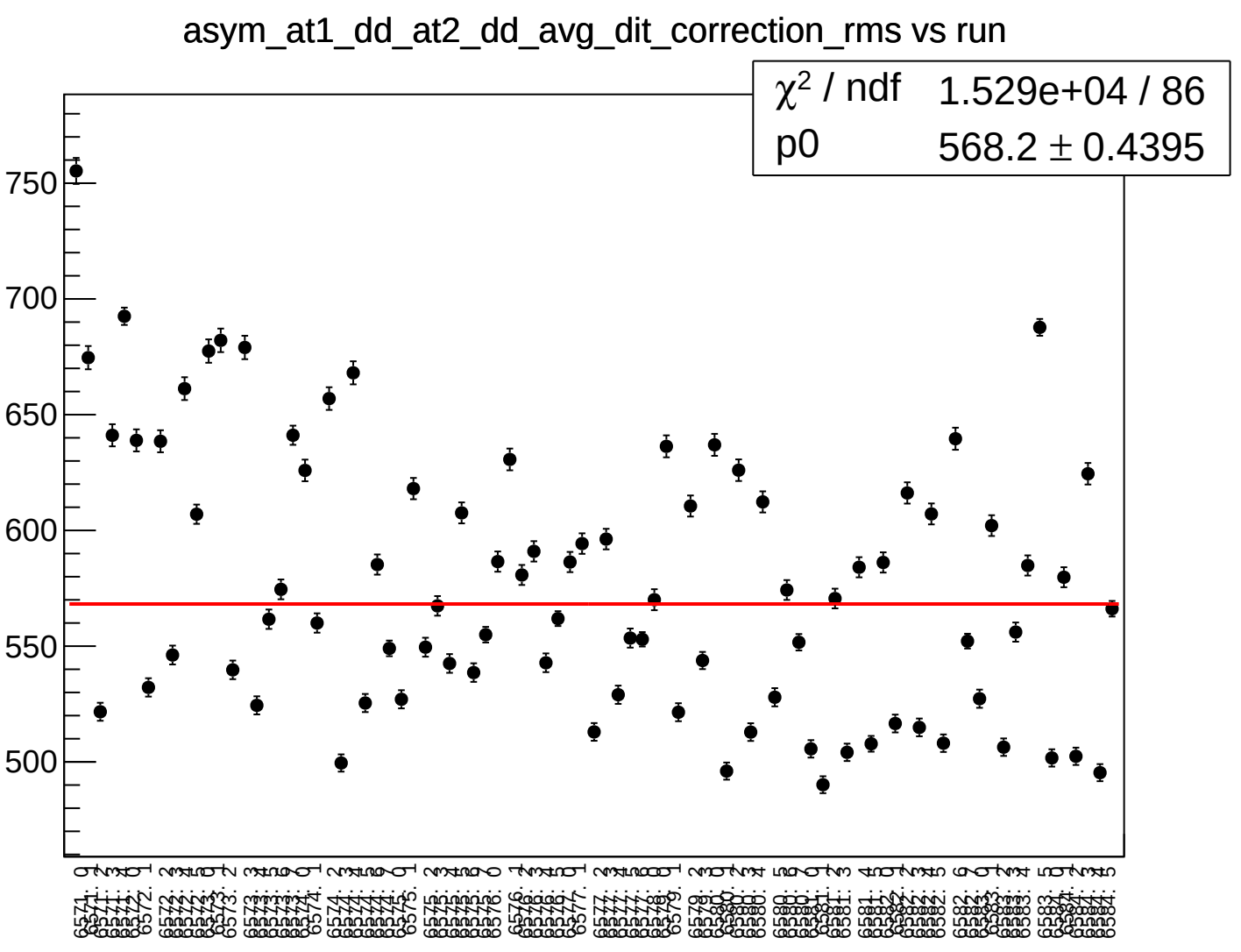

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 78.39 / 86
p0 −2512 ± 1420
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 276.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

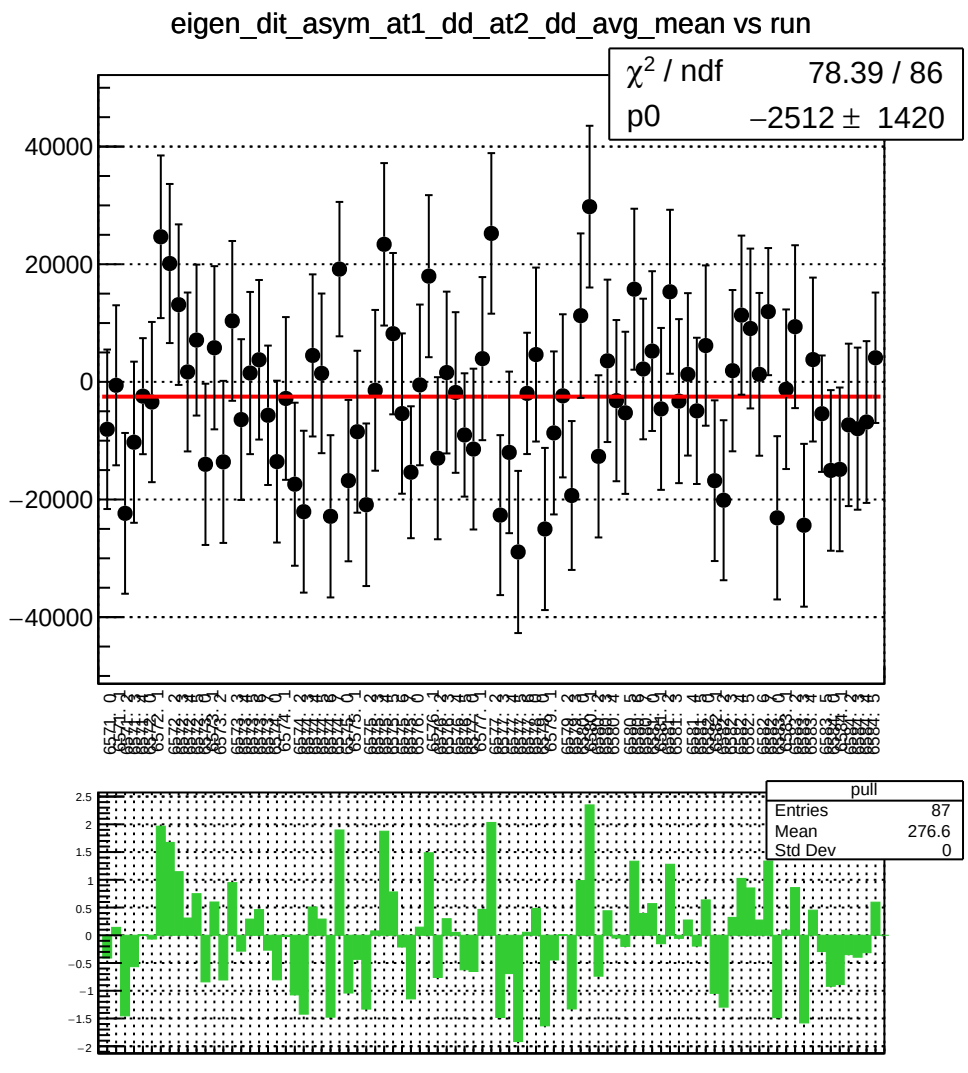

pull1D
Entries 87
Mean −0.003456
Std Dev 0.9492
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

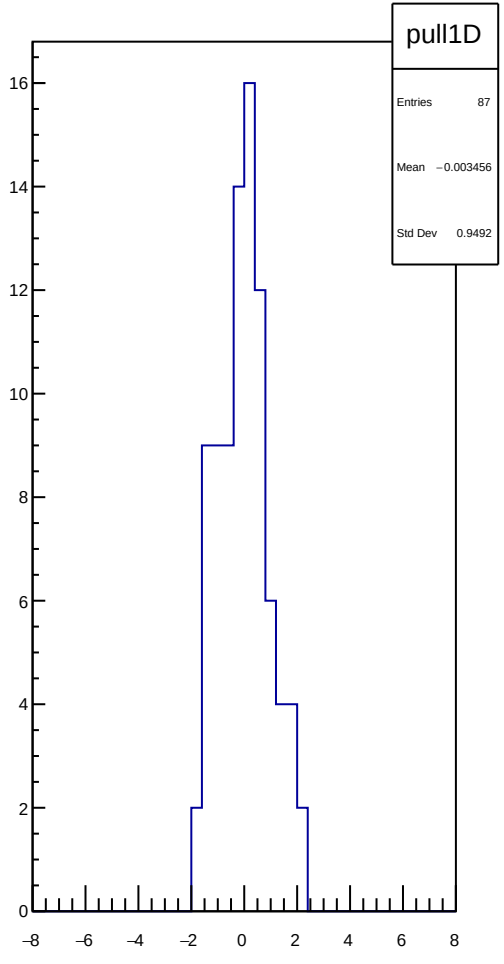

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 118.1 / 86
p0 1304 ± 1.004
1340
1330
1320
1310
1300
1290
1280
1270

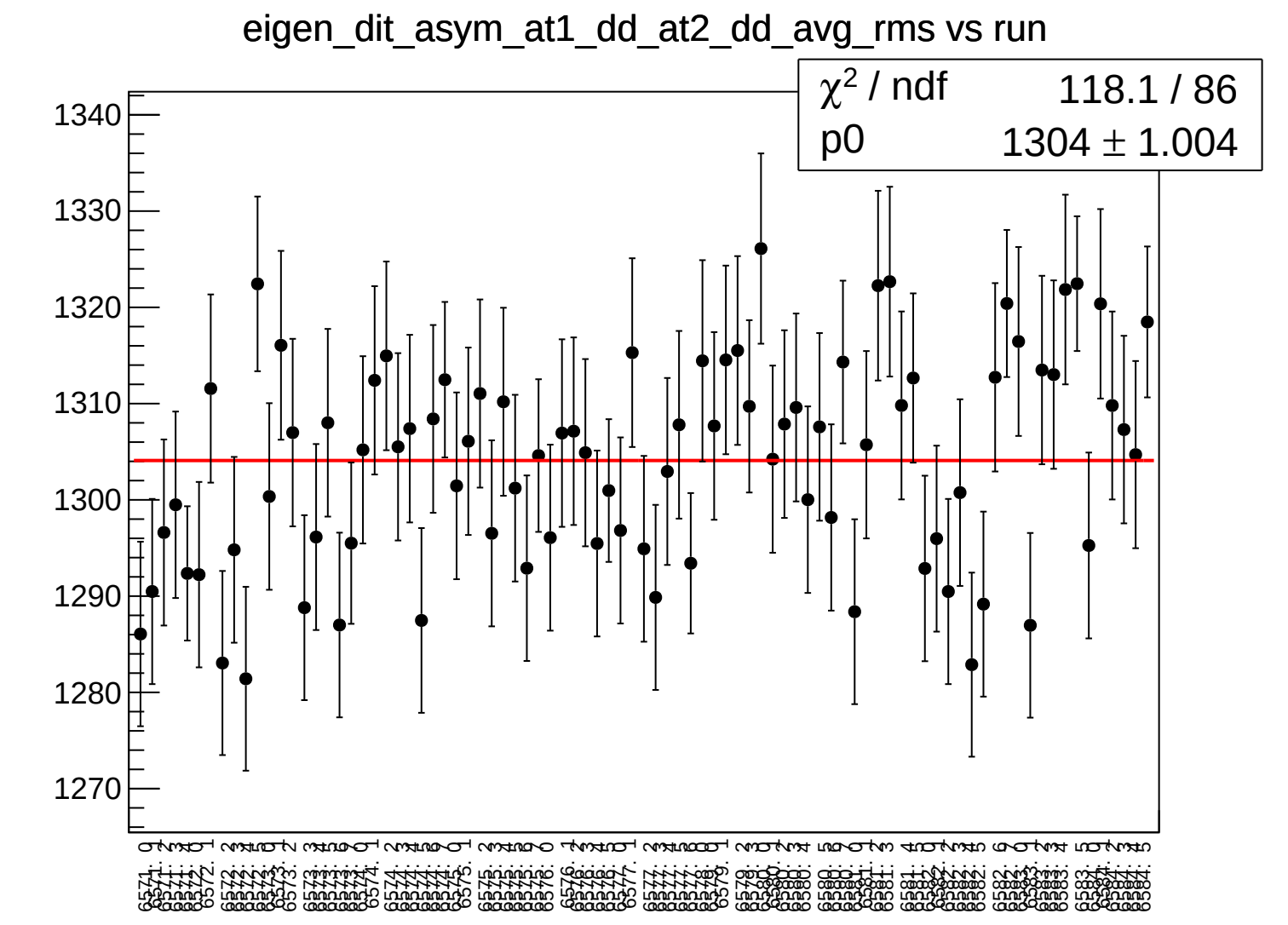

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 99.07 / 86
p0 873.9 ± 621.5
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −5.543
Std Dev 0
2
1
0
−1
−2
−3

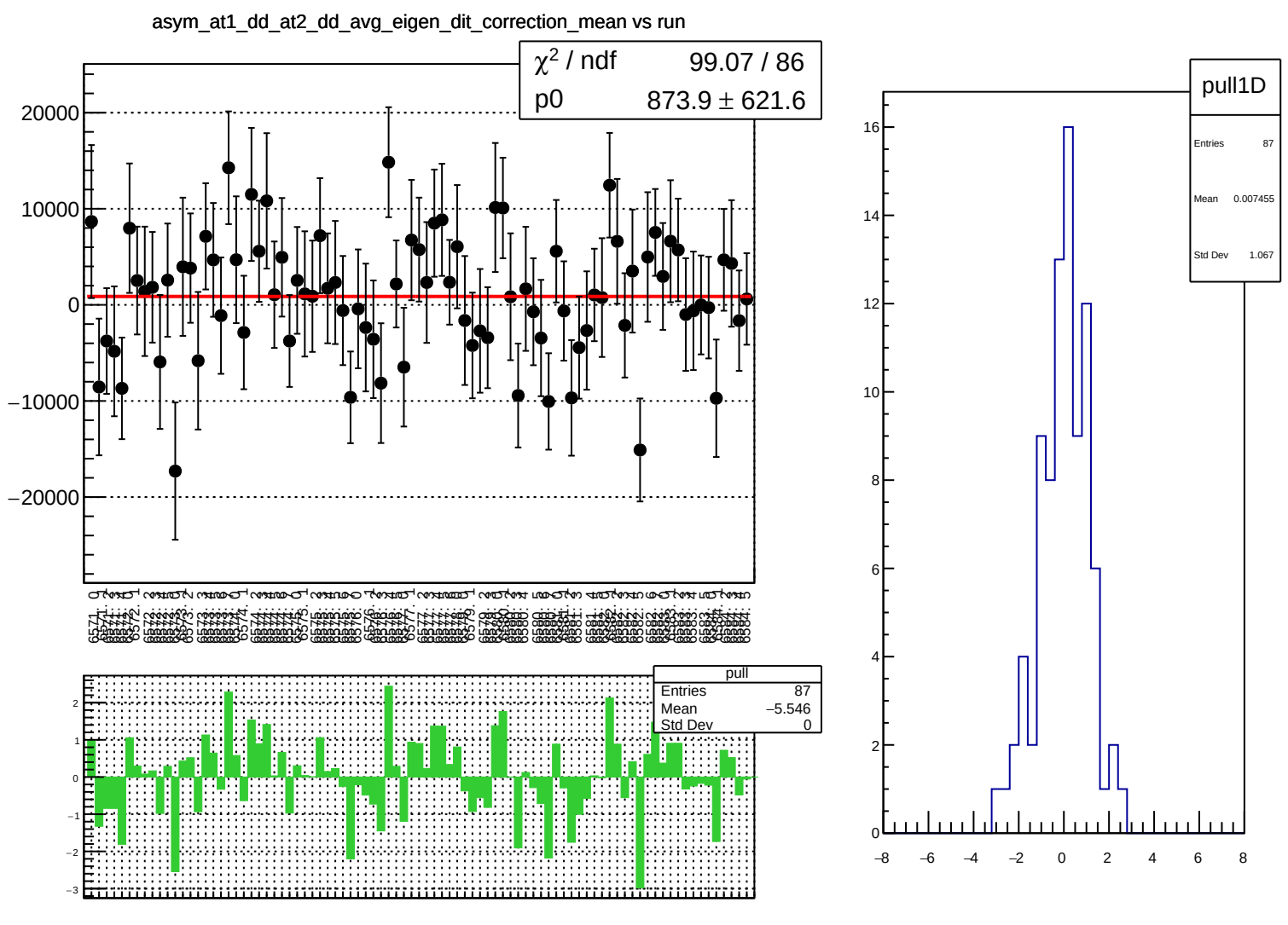

pull1D
Entries 87
Mean 0.007455
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

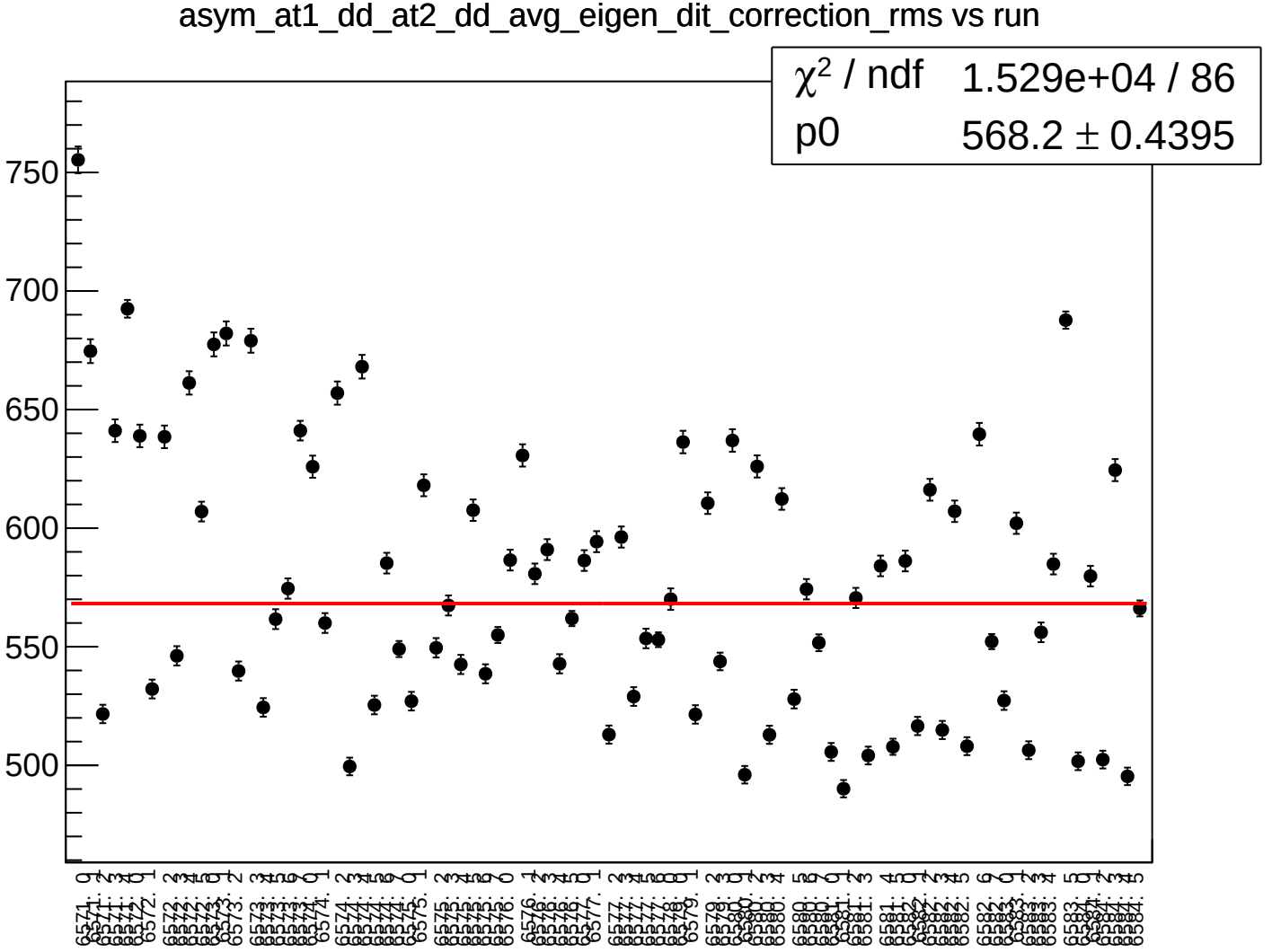

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.529e+04 / 86
p0 568.2 ± 0.4395
750
700
650
600
550
500

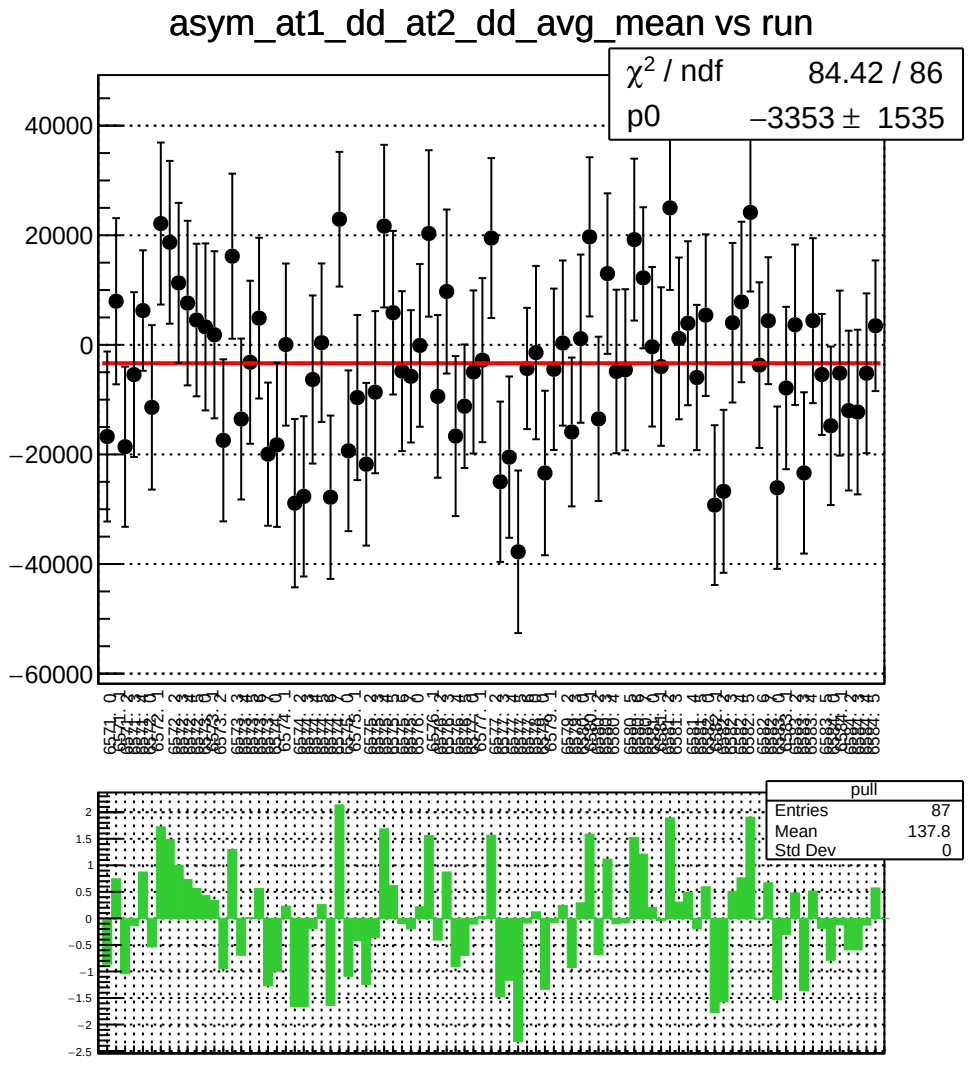

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 78.39 / 86
p0 −2512 ± 1420
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 276.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

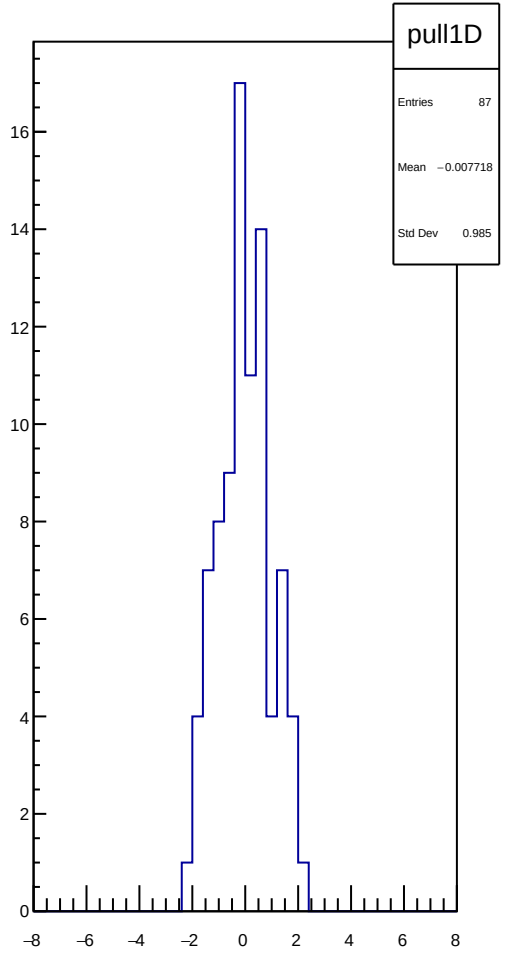

pull1D
Entries 87
Mean −0.003456
Std Dev 0.9492
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

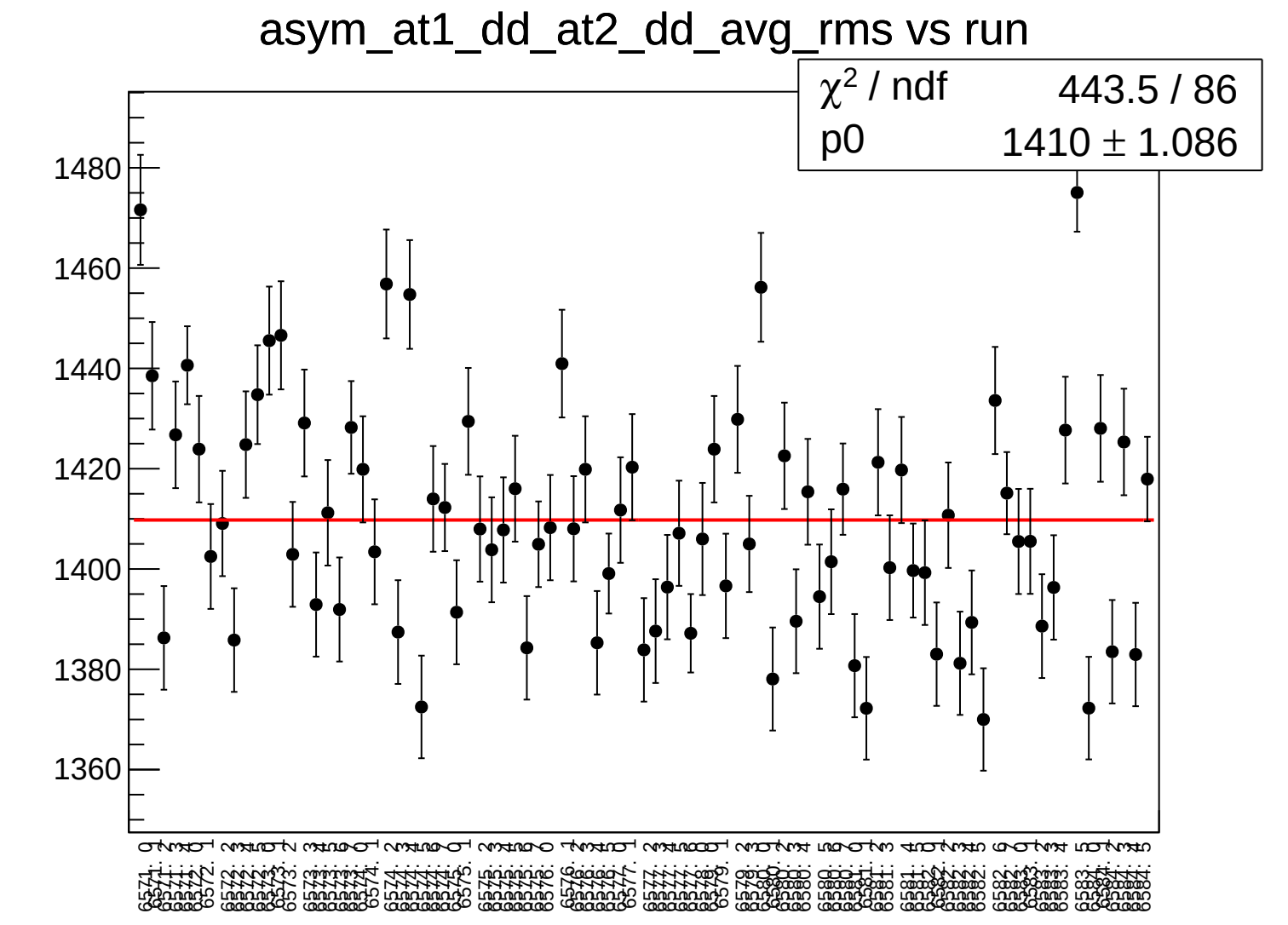

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 118.1 / 86
p0 1304 ± 1.004
1340
1330
1320
1310
1300
1290
1280
1270

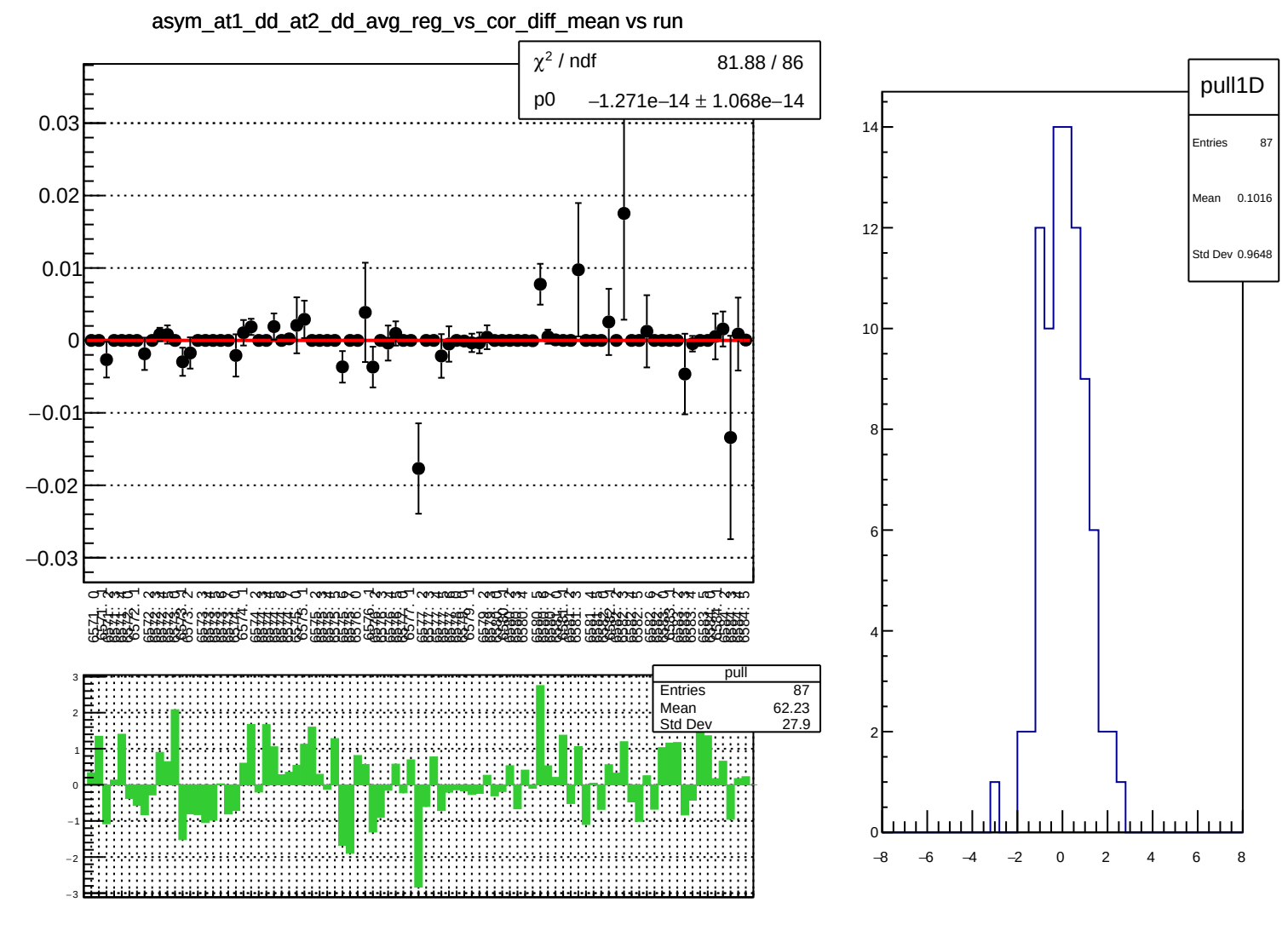

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.07 / 86
p0 873.9 ± 621.6
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −5.546
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.007455
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

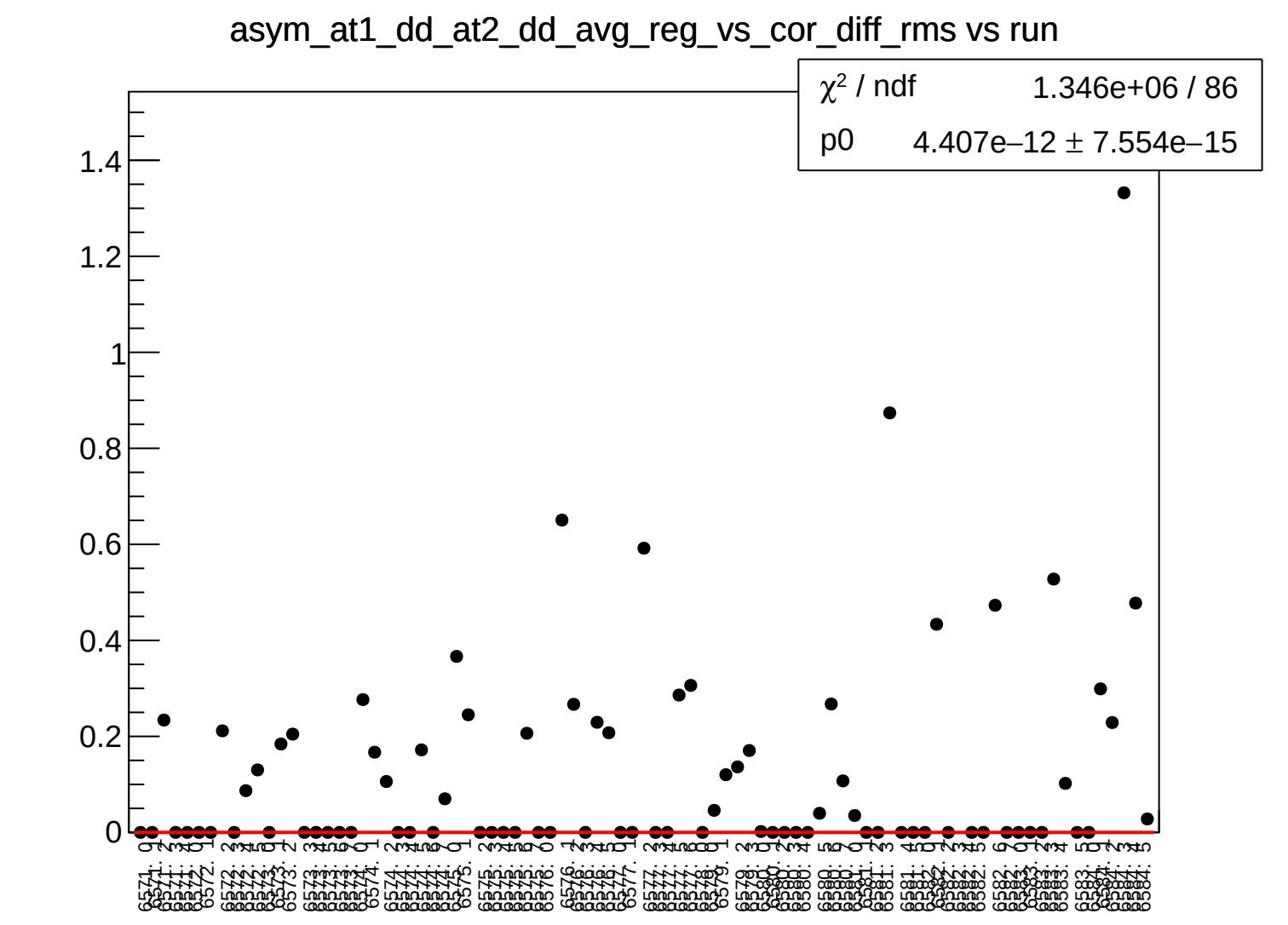

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.529e+04 / 86
p0 568.2 ± 0.4395
750
700
650
600
550
500


asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.42 / 86
p0 −3353 ± 1535
pull
Entries 87
Mean 137.8
Std Dev 0

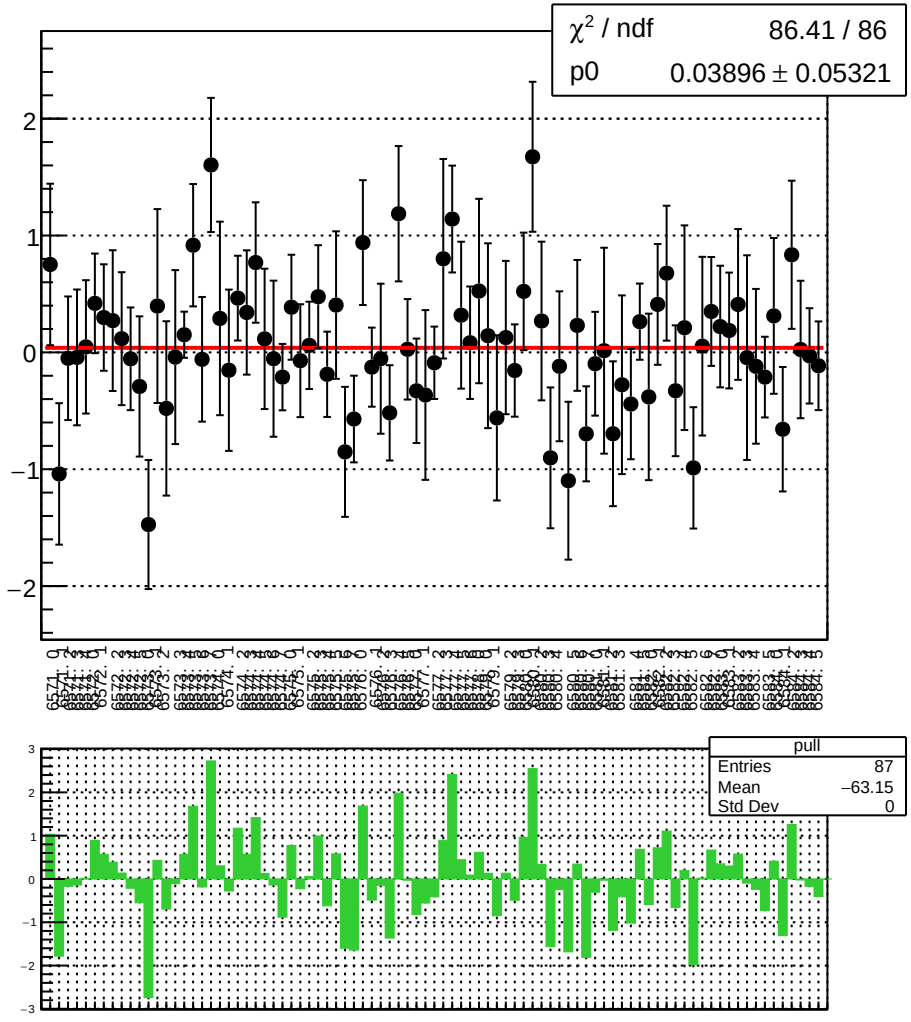

pull1D
Entries 87
Mean −0.007718
Std Dev 0.985

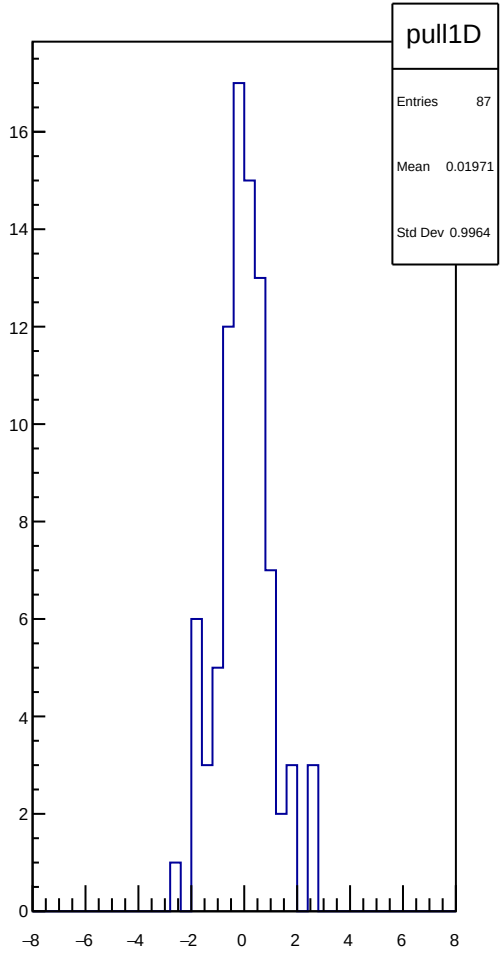

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 443.5 / 86
p0 1410 ± 1.086
1480
1460
1440
1420
1400
1380
1360

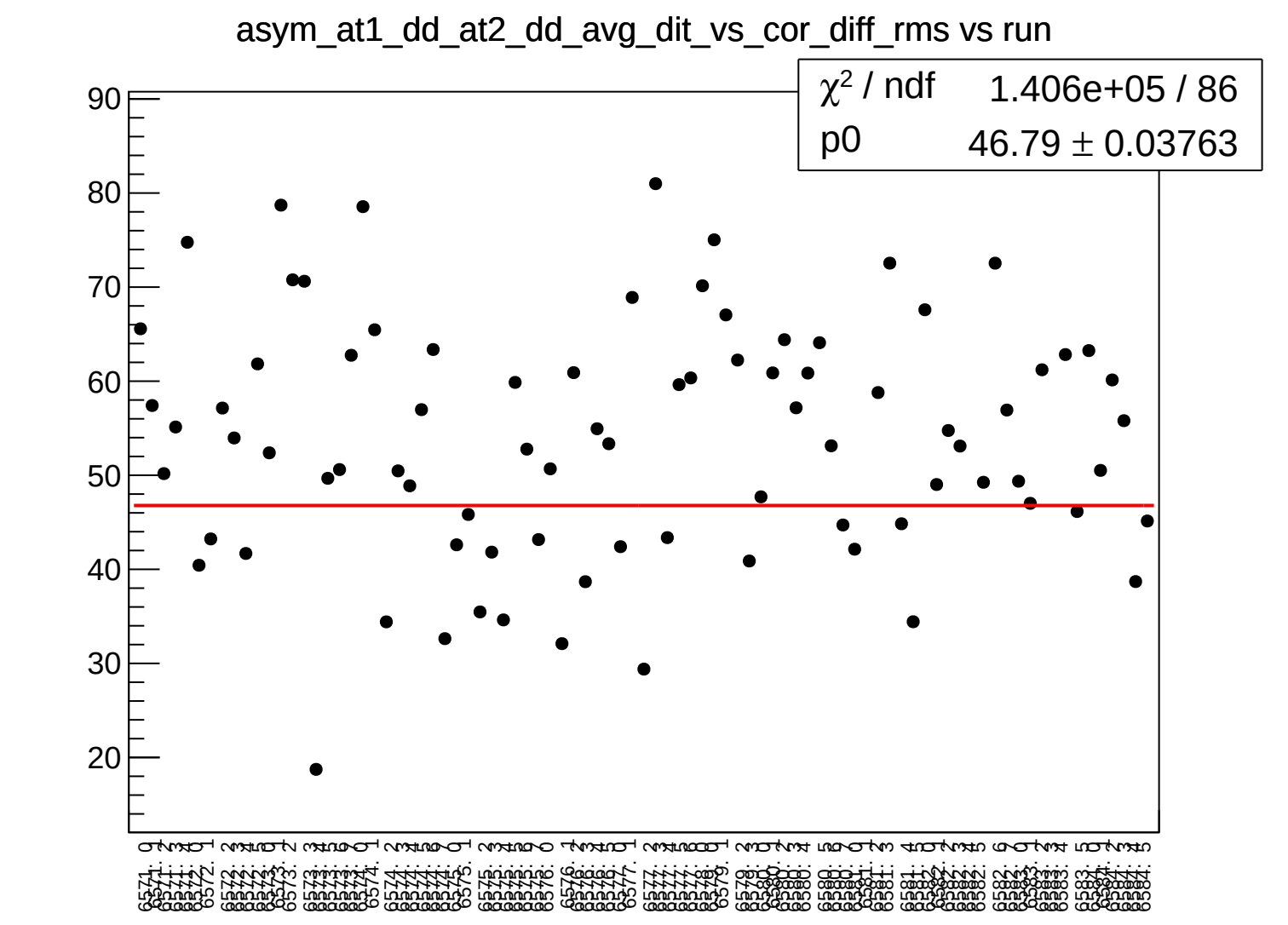

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.88 / 86
p0 −1.271e−14 ± 1.068e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 62.23
Std Dev 27.9
pull1D
Entries 87
Mean 0.1016
Std Dev 0.9648
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

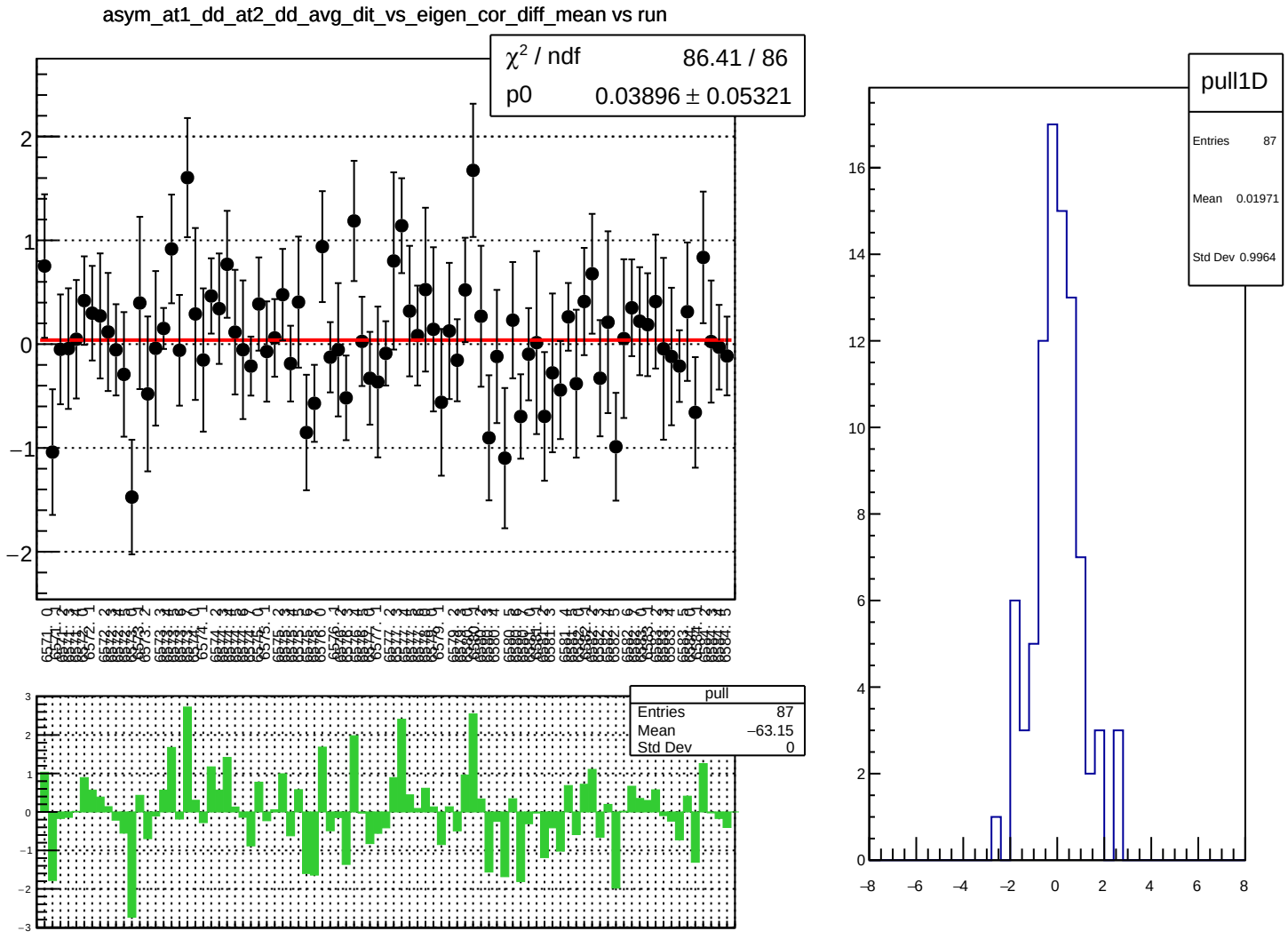

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.346e+06 / 86
p0 4.407e−12 ± 7.554e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

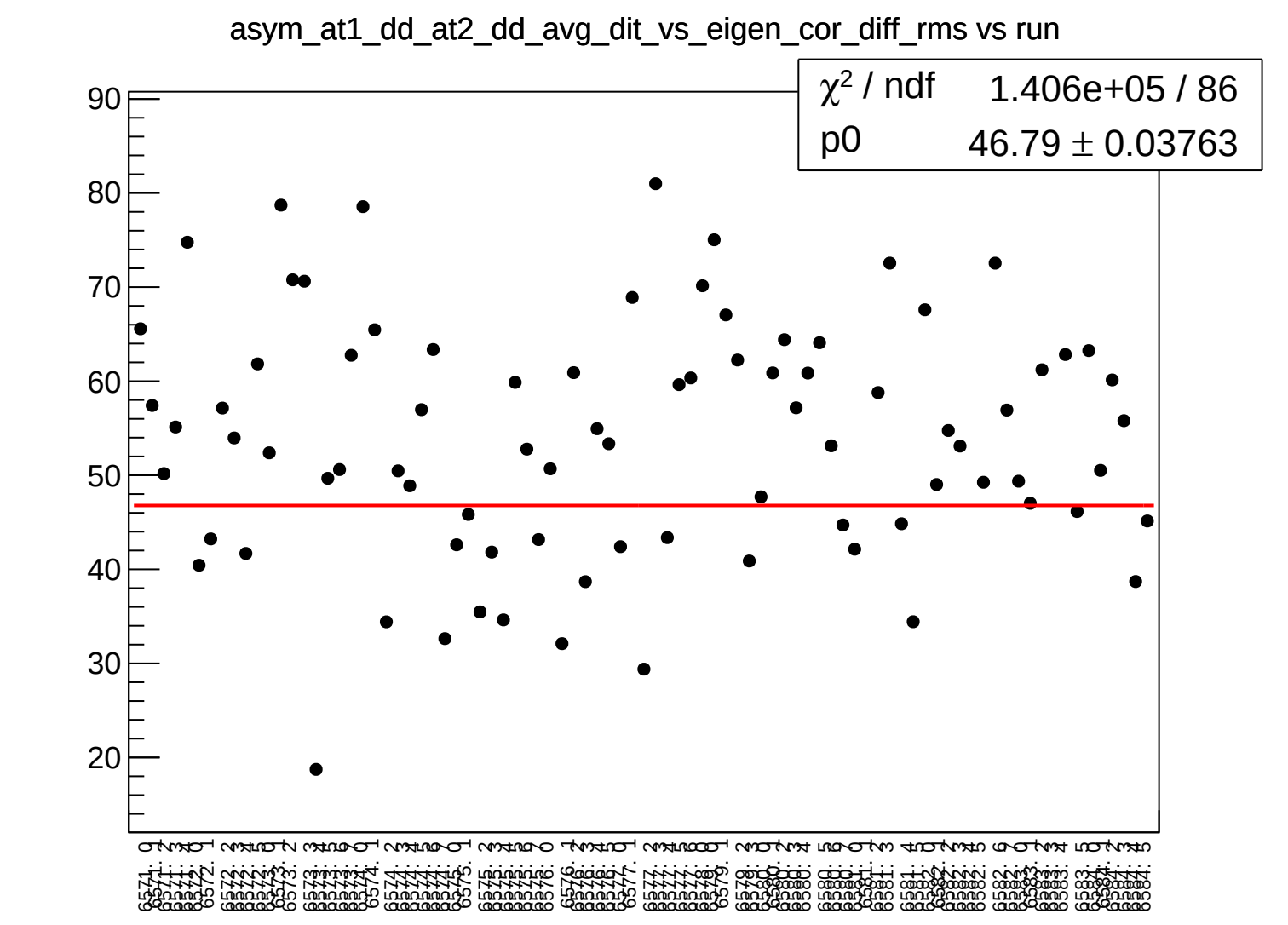
asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run

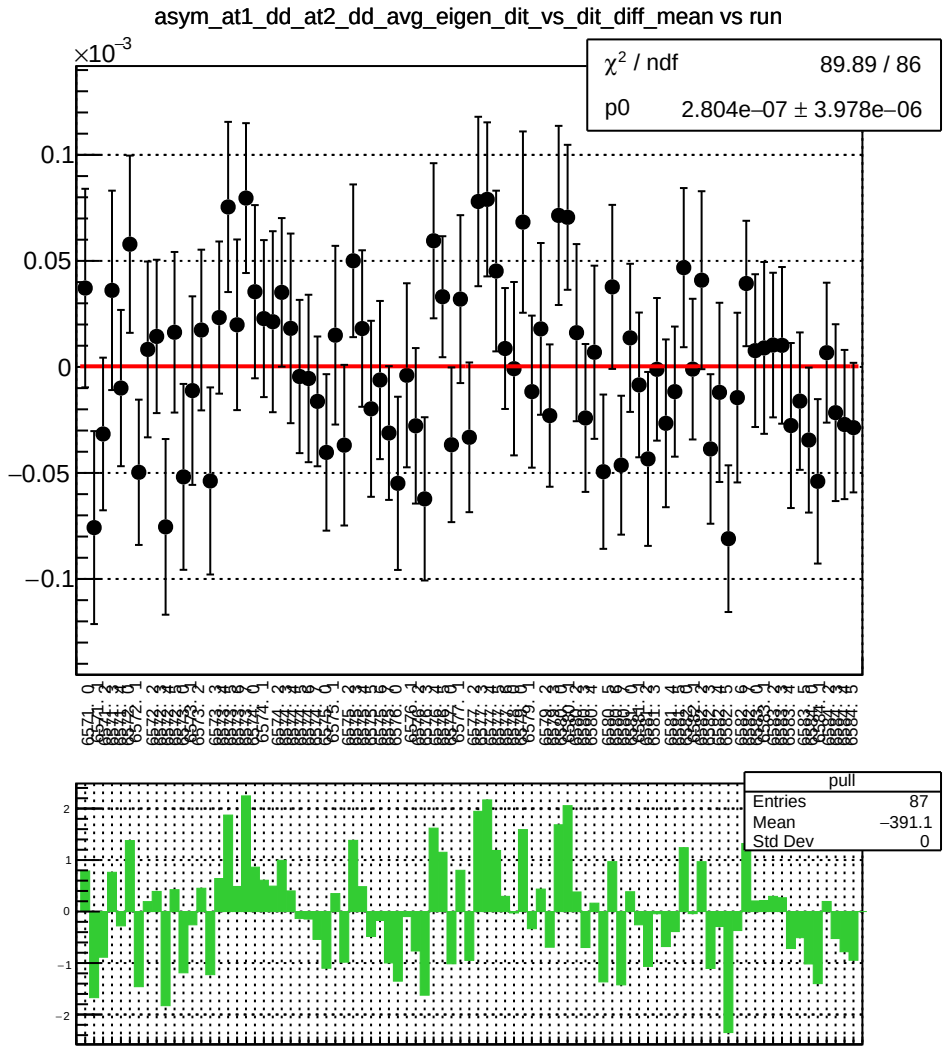


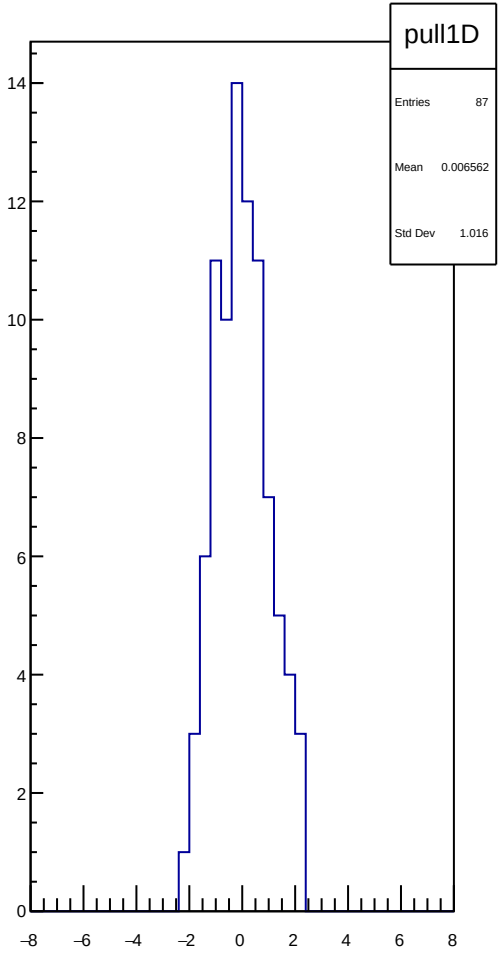


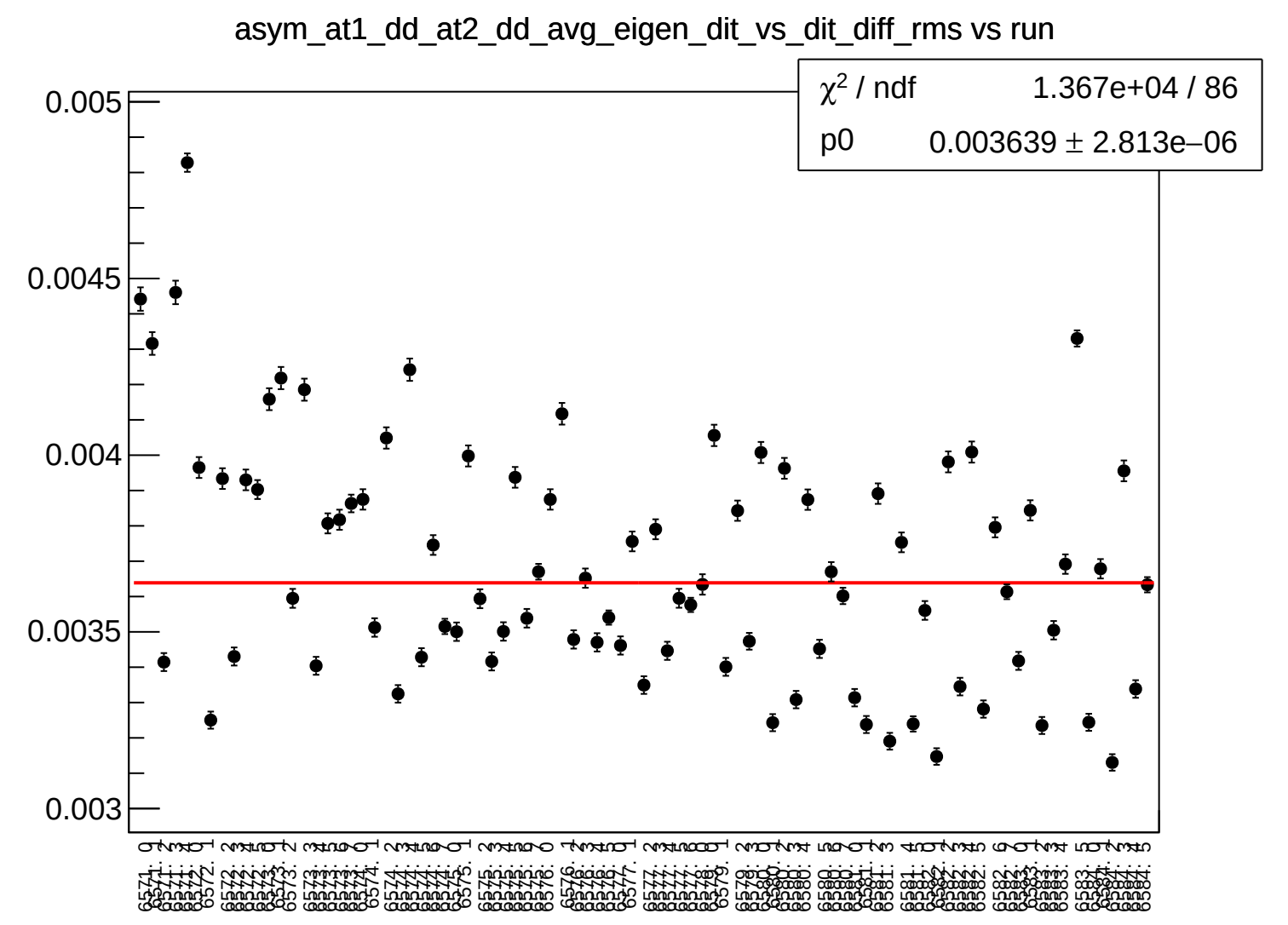

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 86
p0 46.79 ± 0.03763
90
80
70
60
50
40
30
20

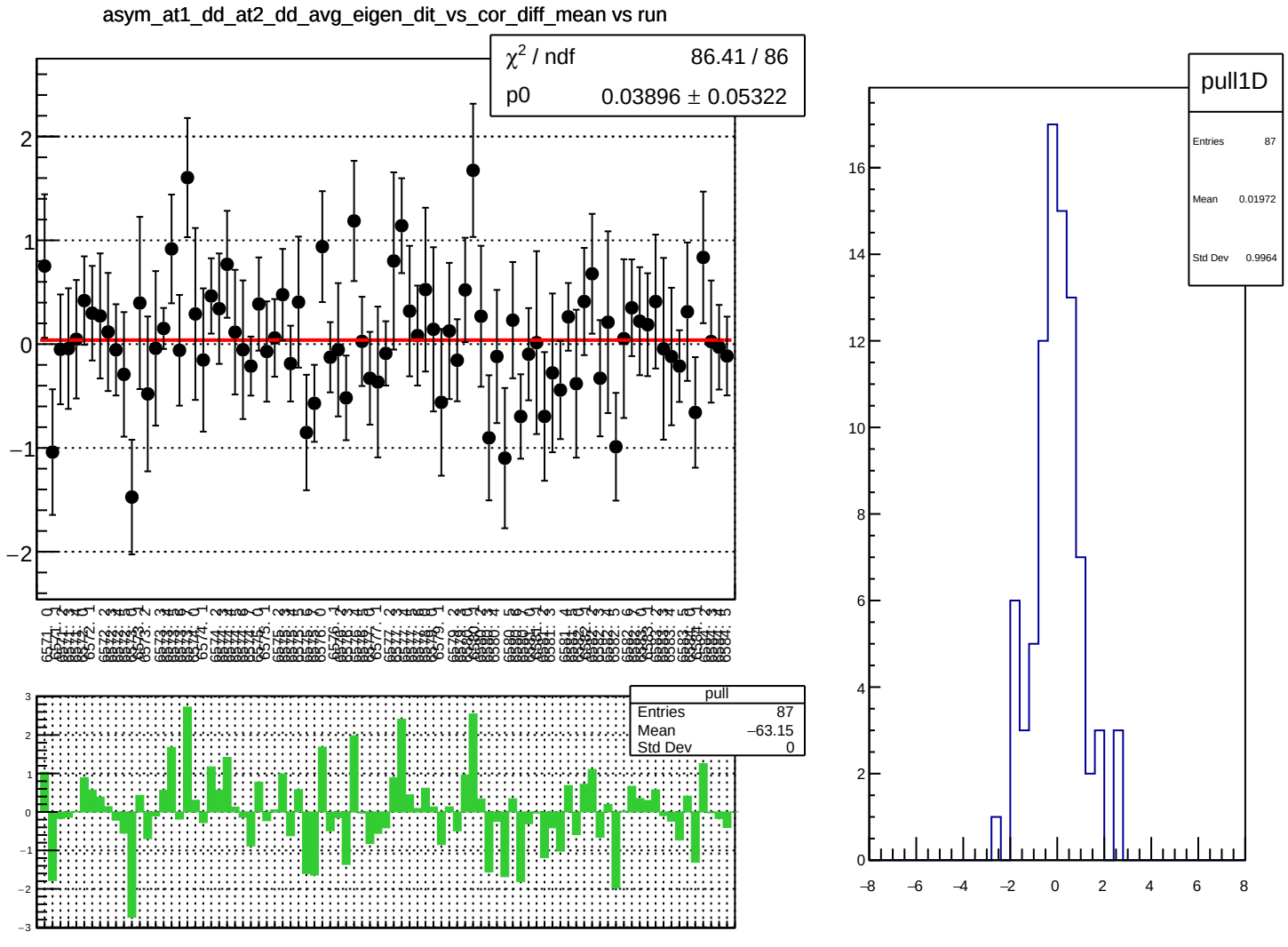

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.41 / 86
p0 0.03896 ± 0.05321
pull
Entries 87
Mean −63.15
Std Dev 0
pull1D
Entries 87
Mean 0.01971
Std Dev 0.9964

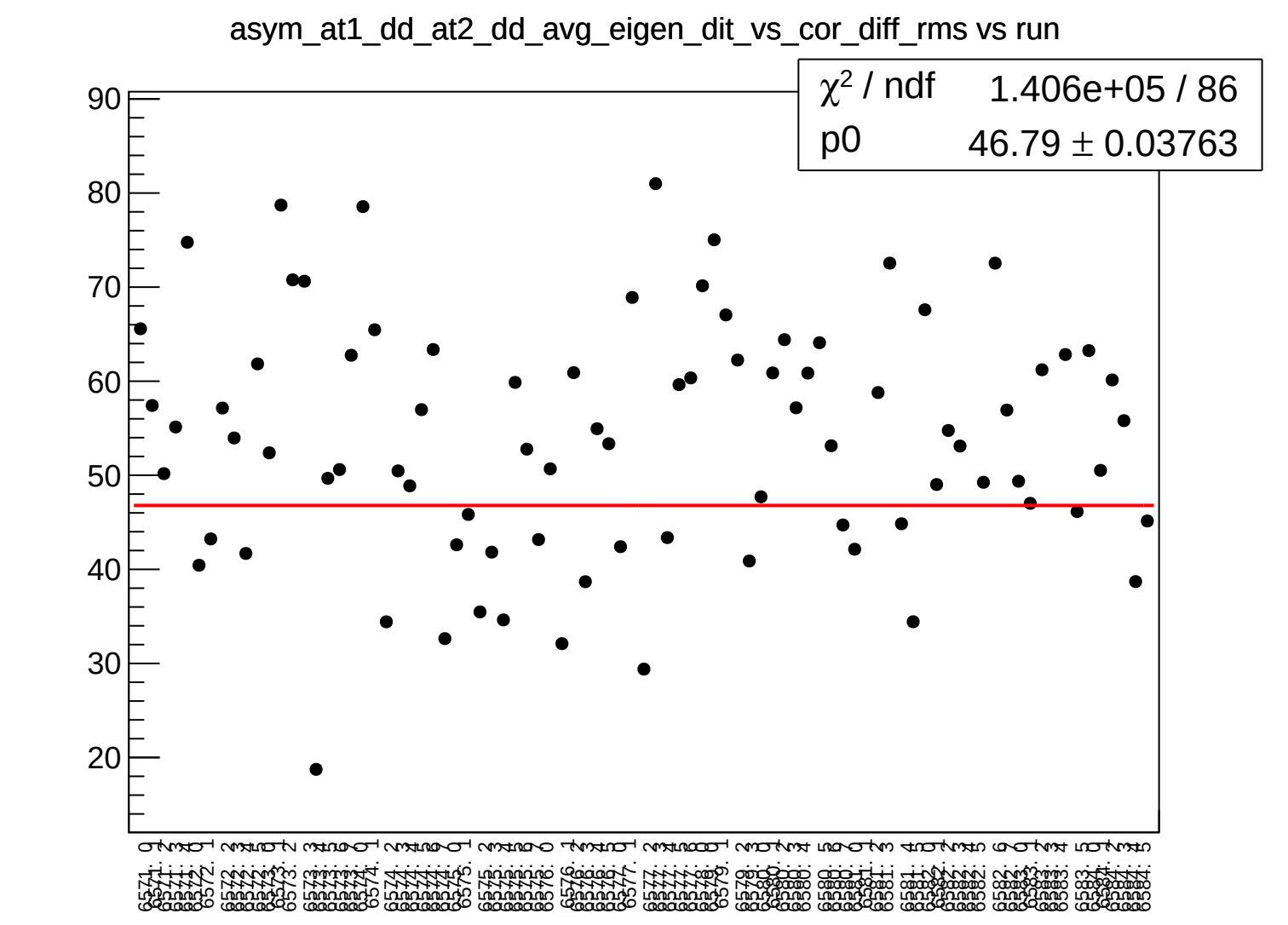

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 86
p0 46.79 ± 0.03763
90
80
70
60
50
40
30
20

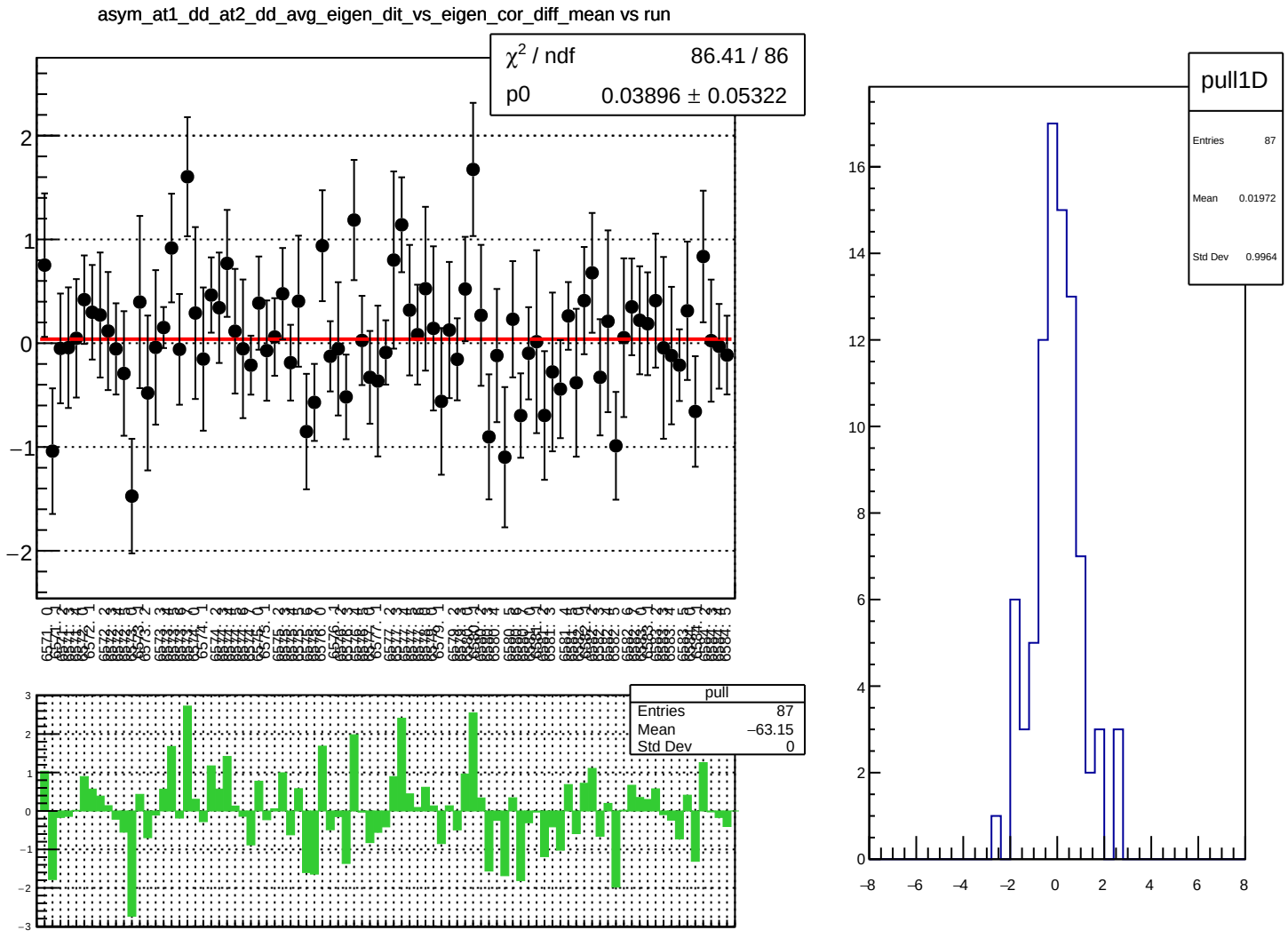

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.89 / 86
p0 2.804e−07 ± 3.978e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −391.1
Std Dev 0
2
1
0
−1
−2

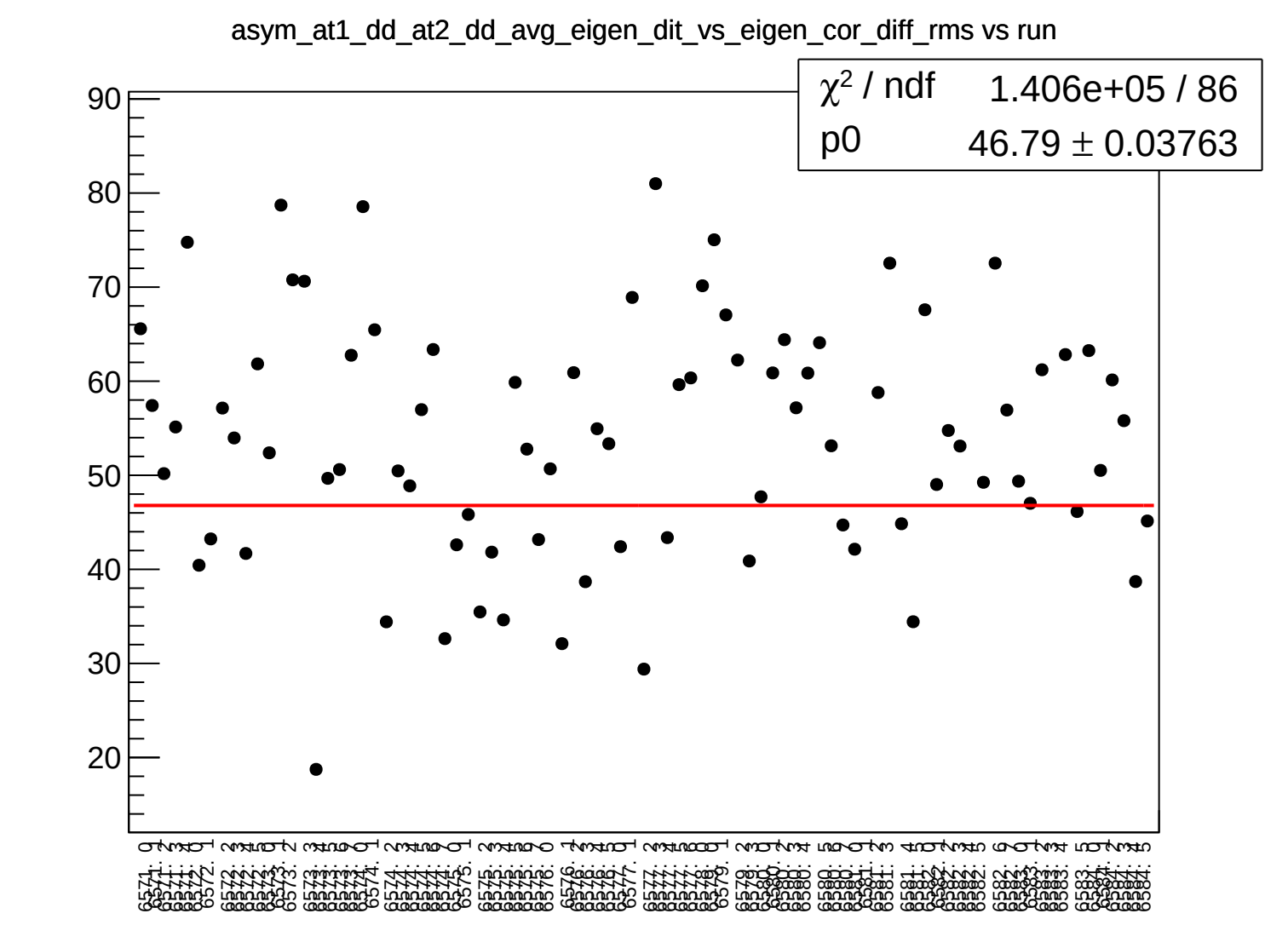

pull1D
Entries 87
Mean 0.006562
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

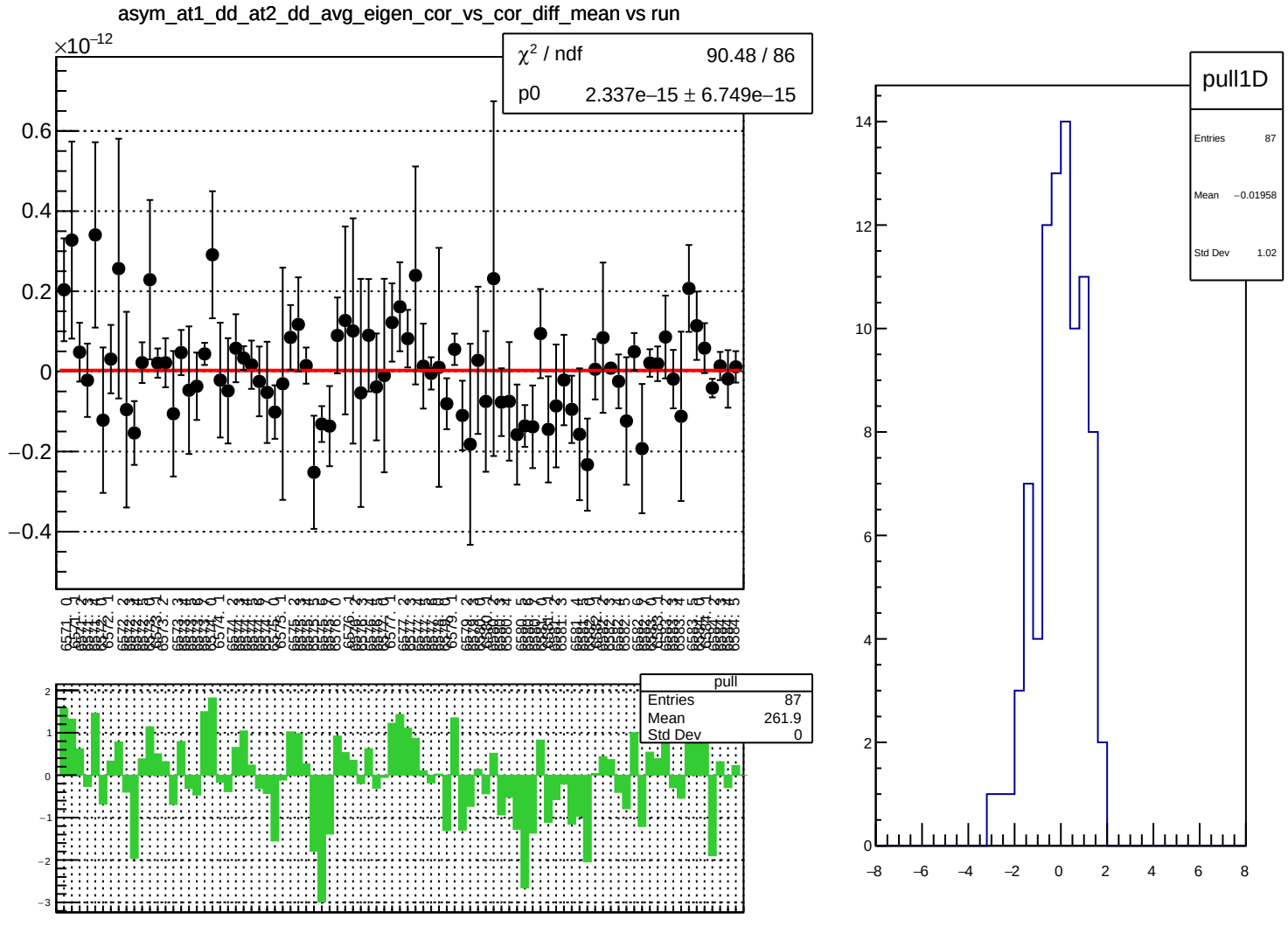

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.367e+04 / 86
p0 0.003639 ± 2.813e−06
0.005
0.0045
0.004
0.0035
0.003

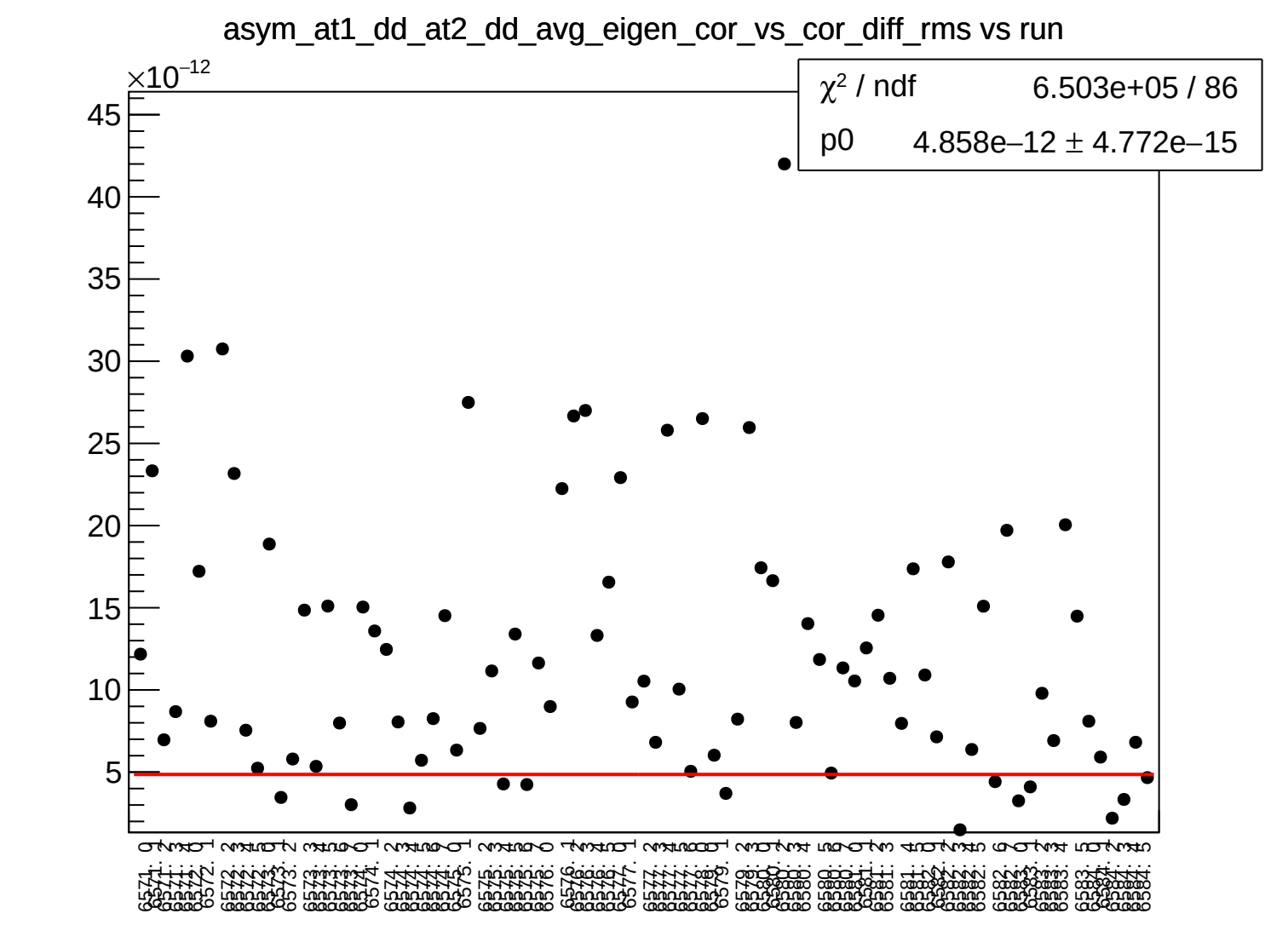

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.41 / 86
p0 0.03896 ± 0.05322
pull
Entries 87
Mean −63.15
Std Dev 0
pull1D
Entries 87
Mean 0.01972
Std Dev 0.9964

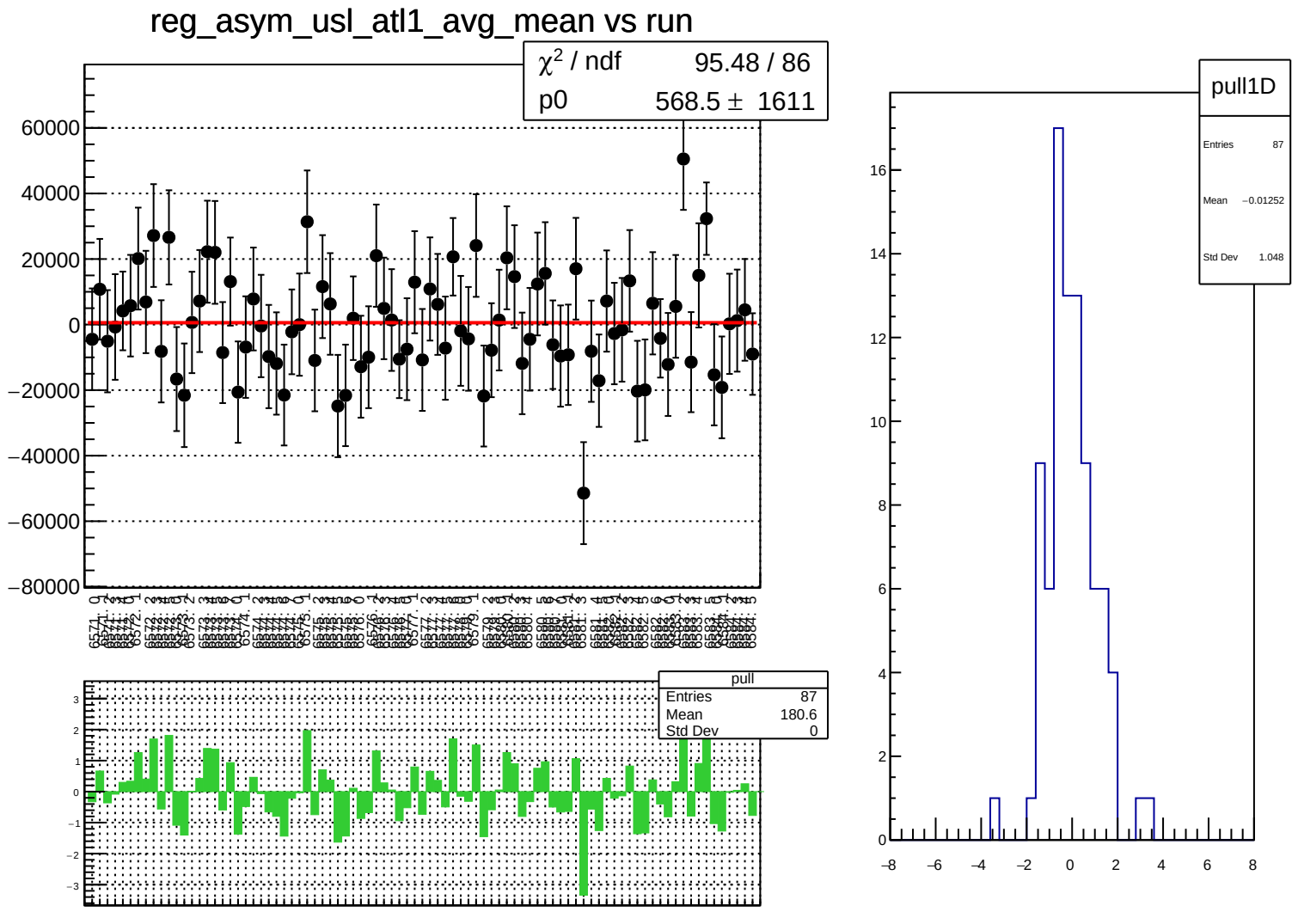

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 86
p0 46.79 ± 0.03763
90
80
70
60
50
40
30
20

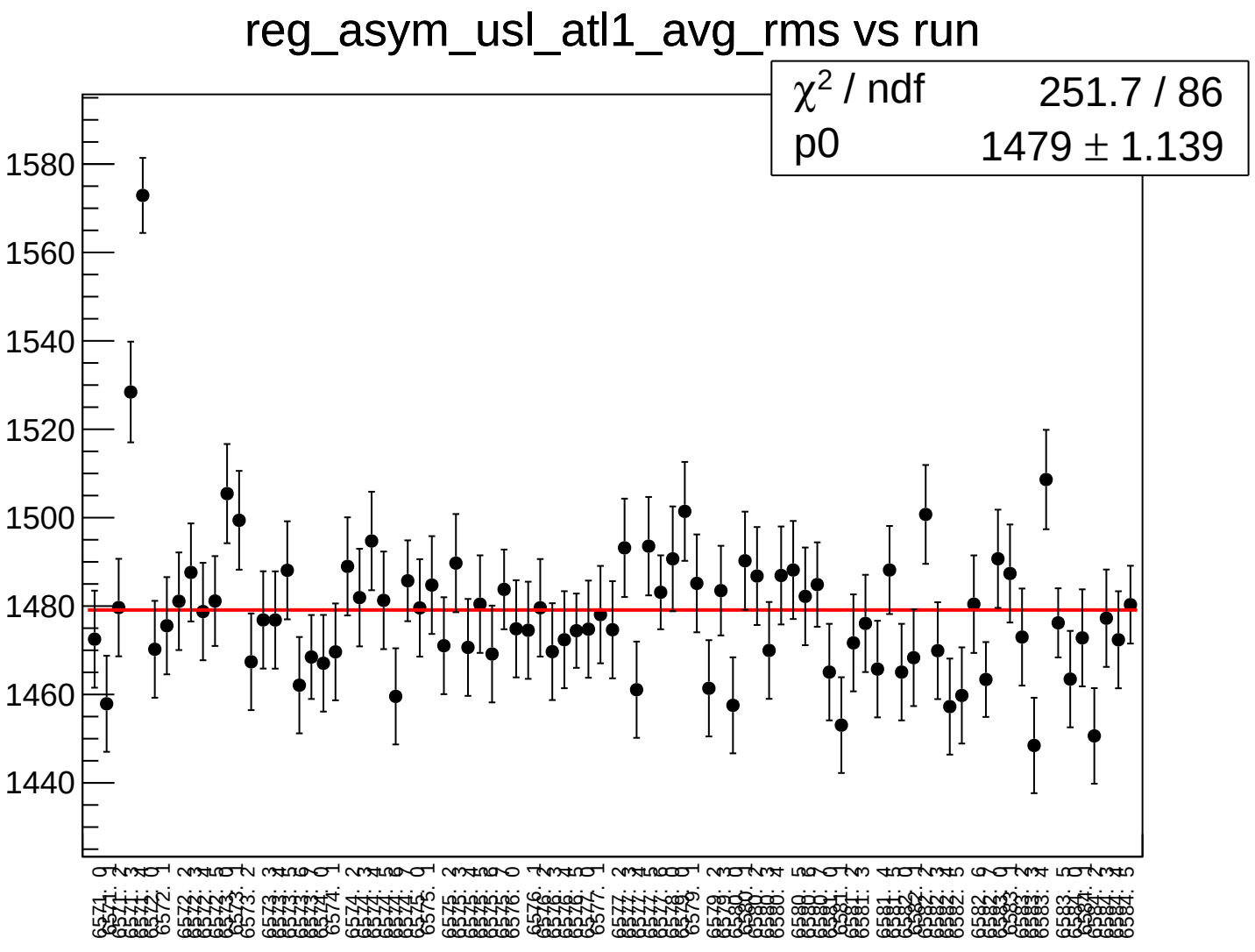

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.41 / 86
p0 0.03896 ± 0.05322
pull
Entries 87
Mean −63.15
Std Dev 0
pull1D
Entries 87
Mean 0.01972
Std Dev 0.9964

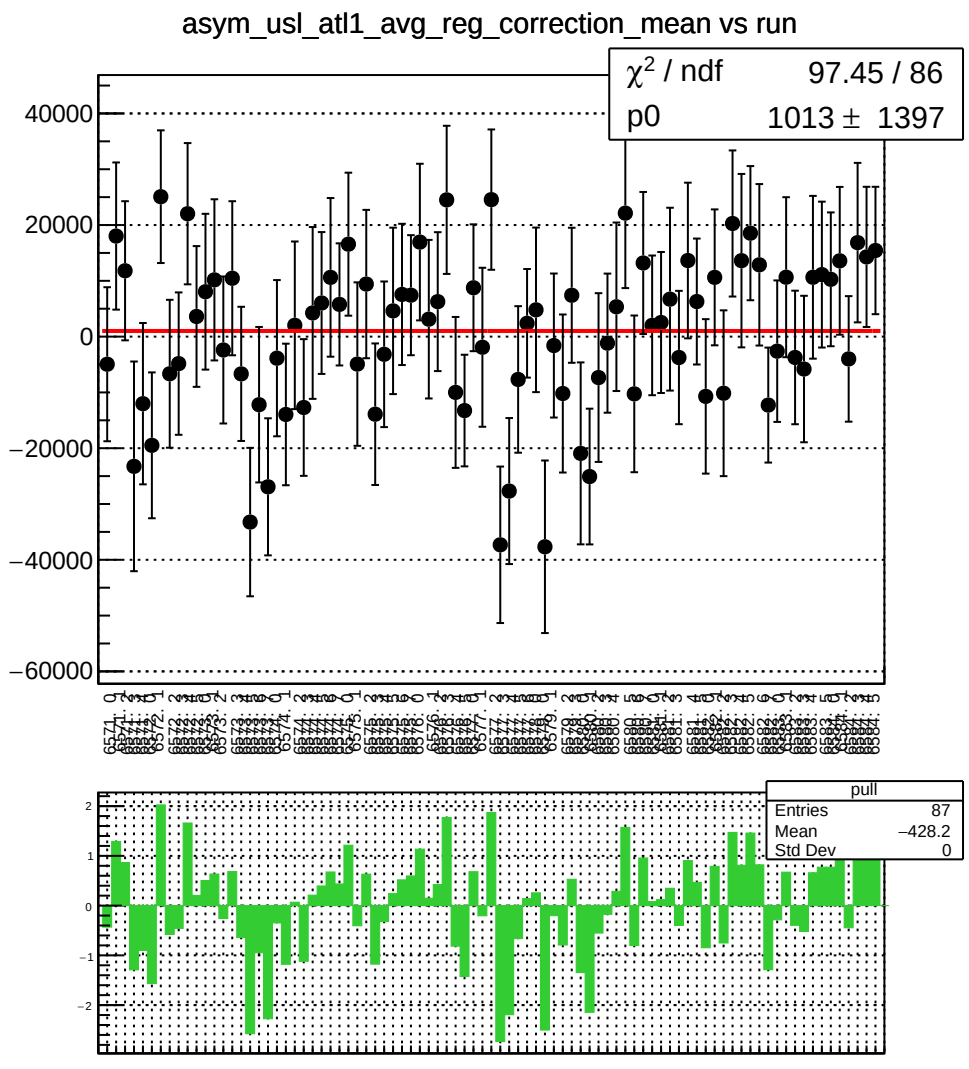

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 86
p0 46.79 ± 0.03763
90
80
70
60
50
40
30
20

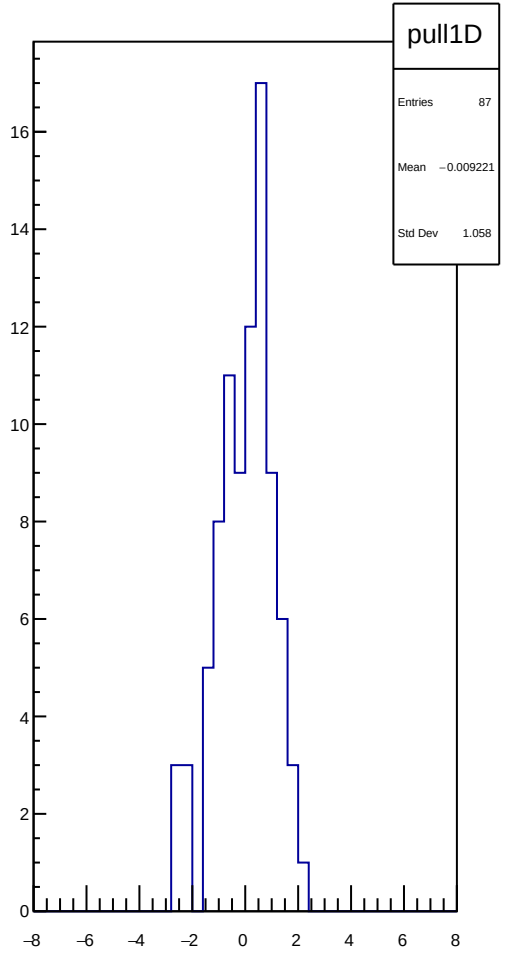

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.48 / 86
p0 2.337e−15 ± 6.749e−15
pull
Entries 87
Mean 261.9
Std Dev 0
pull1D
Entries 87
Mean −0.01958
Std Dev 1.02

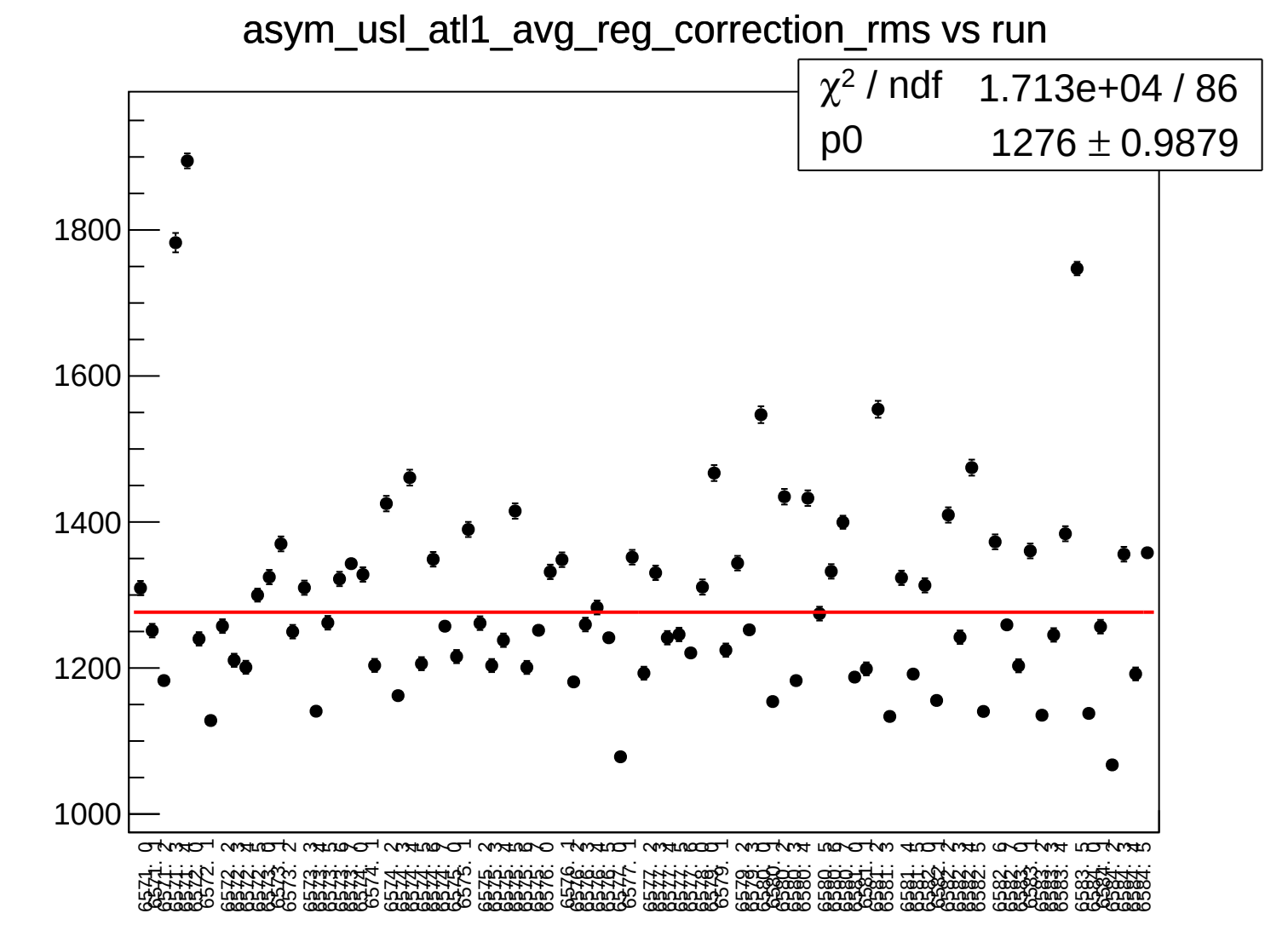

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.503e+05 / 86
p0 4.858e−12 ± 4.772e−15
45
40
35
30
25
20
15
10
5

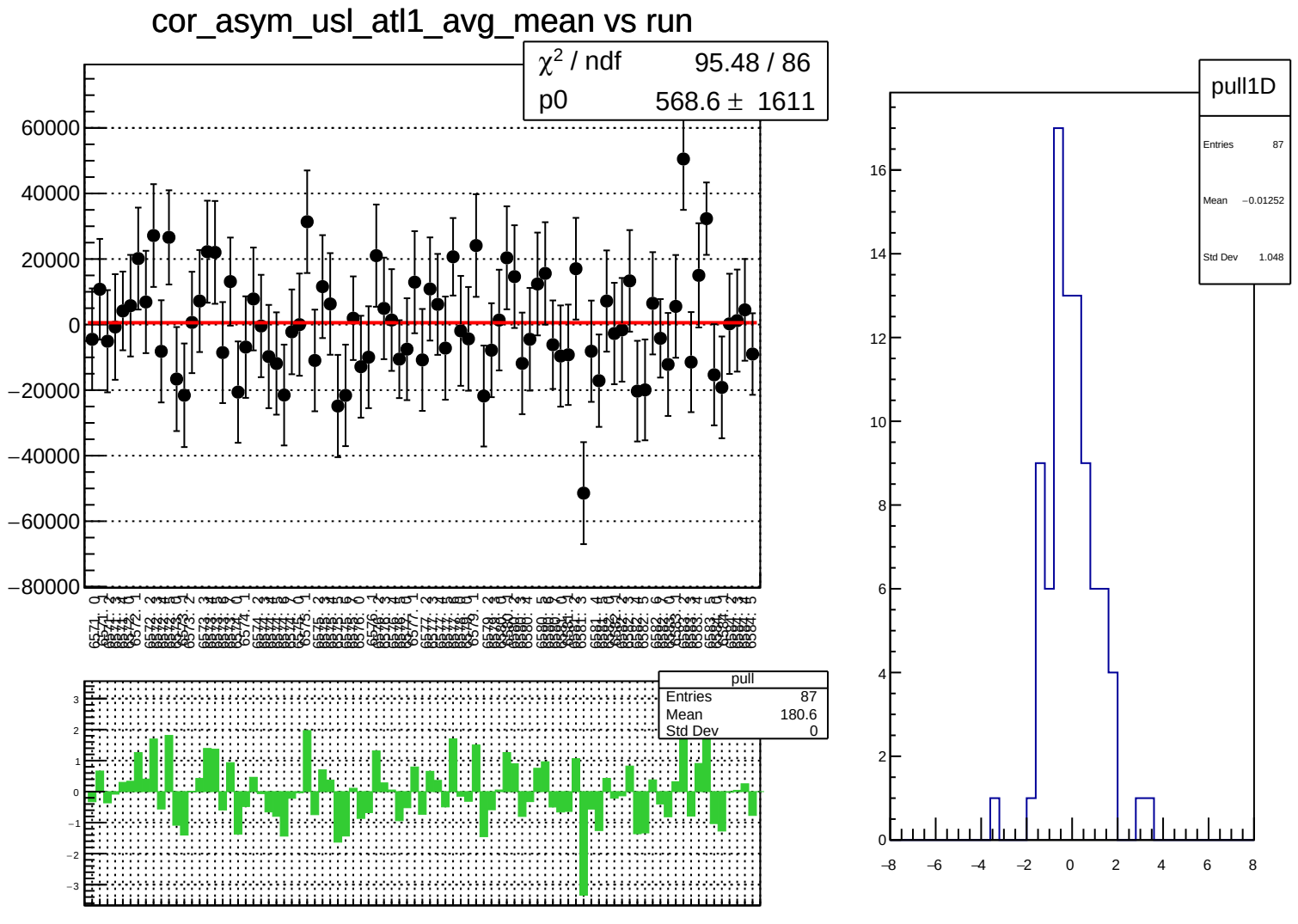

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 95.48 / 86
p0 568.5 ± 1611
pull
Entries 87
Mean 180.6
Std Dev 0
pull1D
Entries 87
Mean −0.01252
Std Dev 1.048

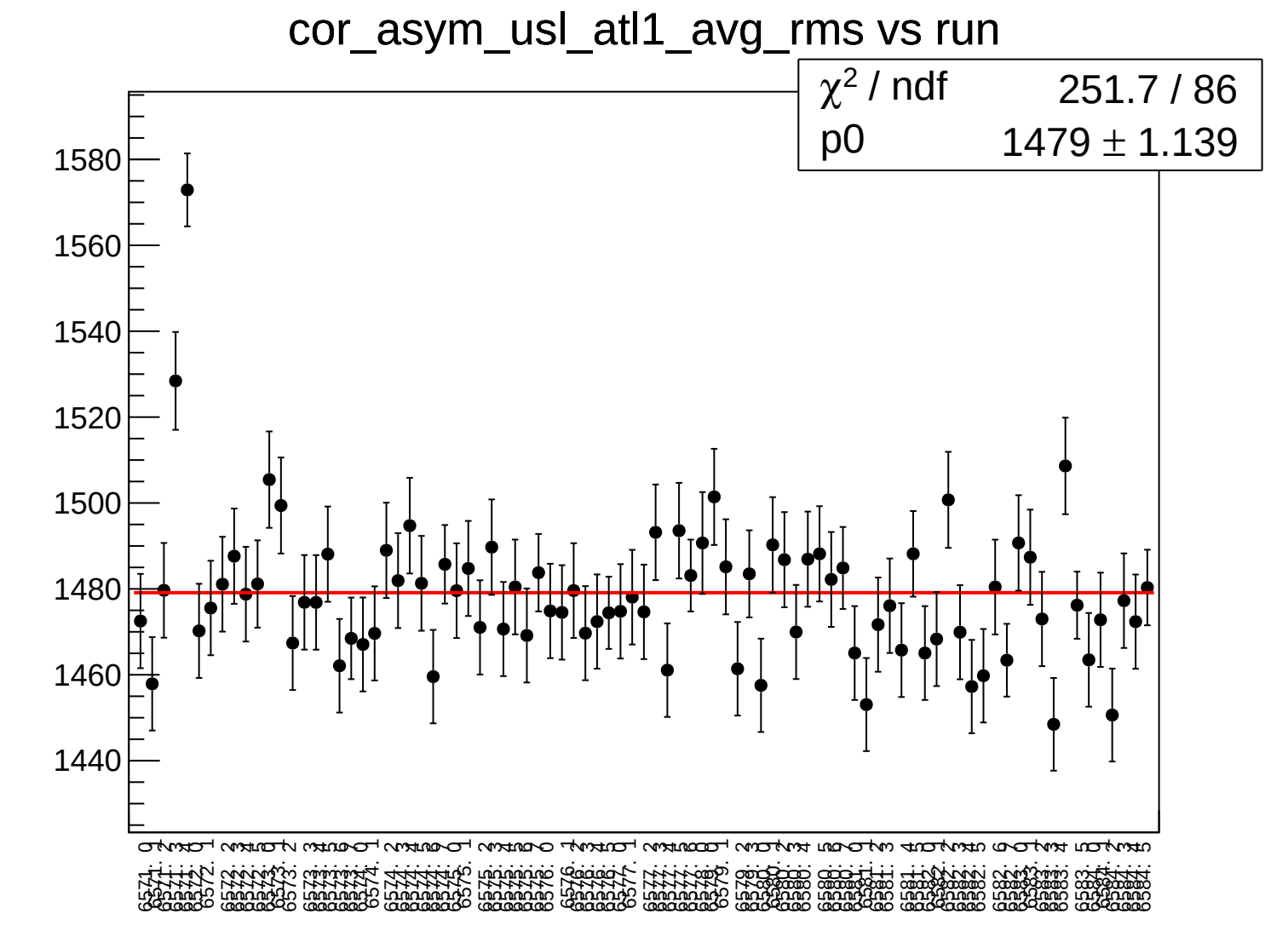

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 251.7 / 86
p0 1479 ± 1.139
1580
1560
1540
1520
1500
1480
1460
1440

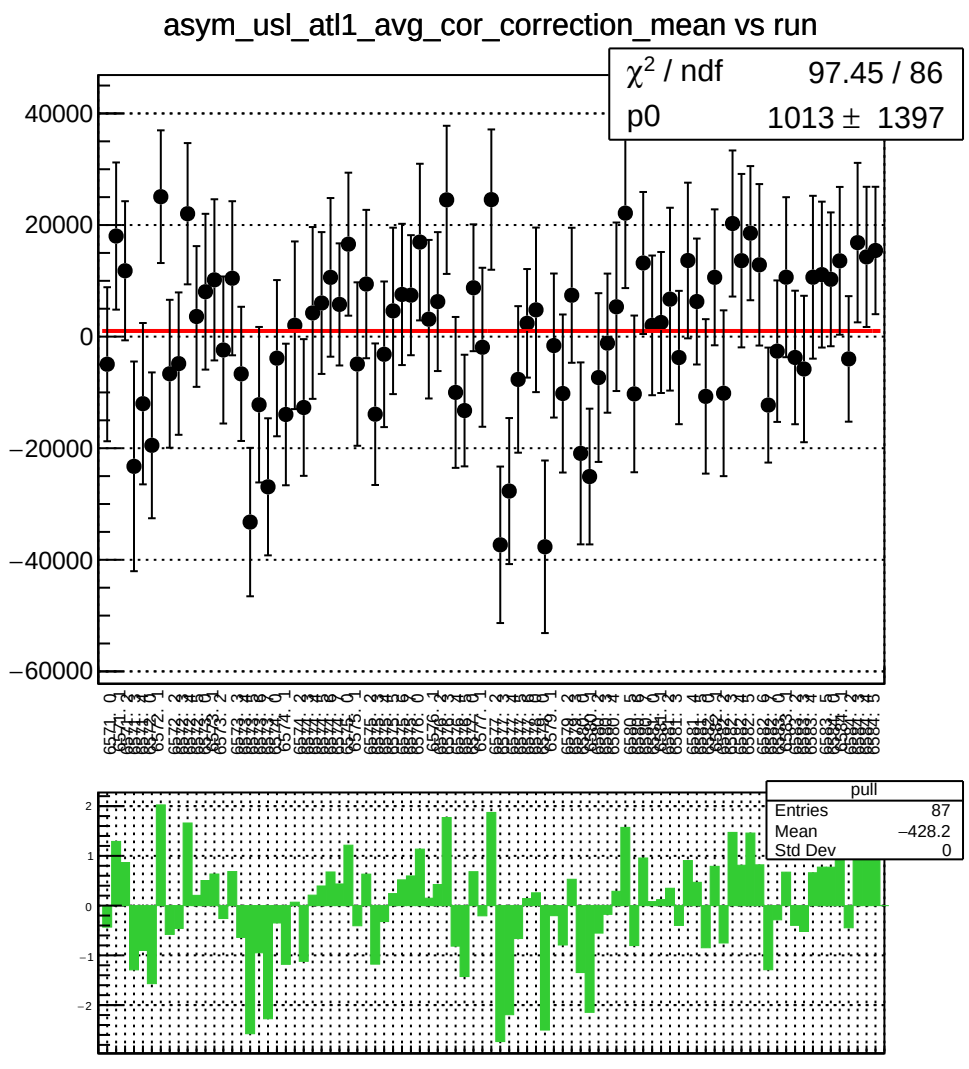

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 97.45 / 86
p0 1013 ± 1397
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −428.2
Std Dev 0
2
1
0
−1
−2

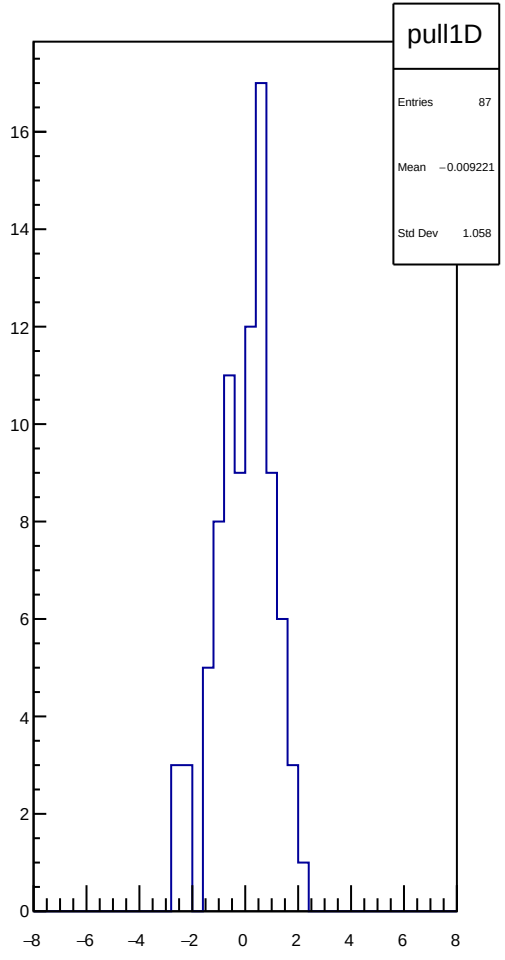

pull1D
Entries 87
Mean −0.009221
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

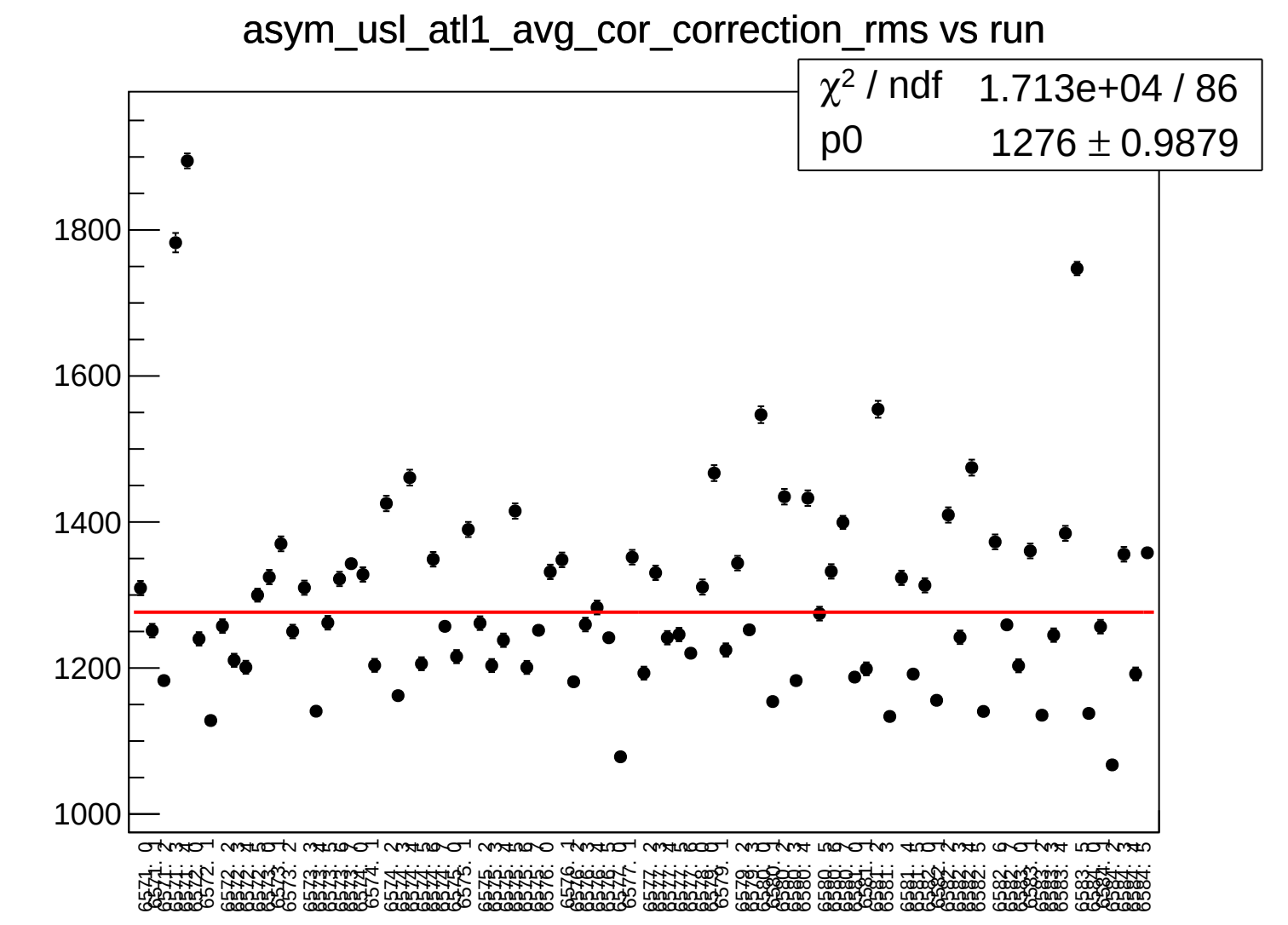

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.713e+04 / 86
p0 1276 ± 0.9879
1800
1600
1400
1200
1000

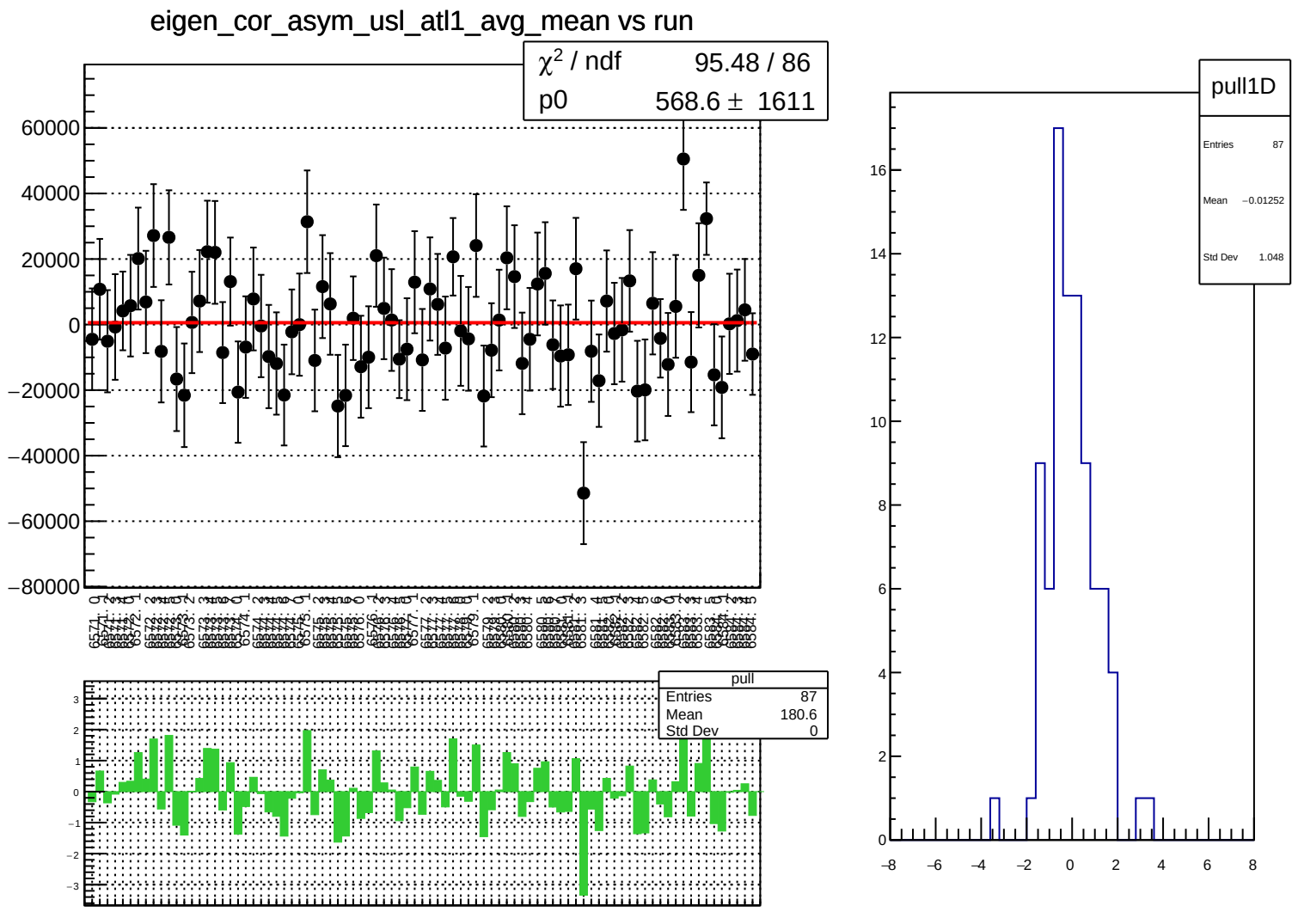

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 95.48 / 86
p0 568.6 ± 1611
pull
Entries 87
Mean 180.6
Std Dev 0
pull1D
Entries 87
Mean −0.01252
Std Dev 1.048

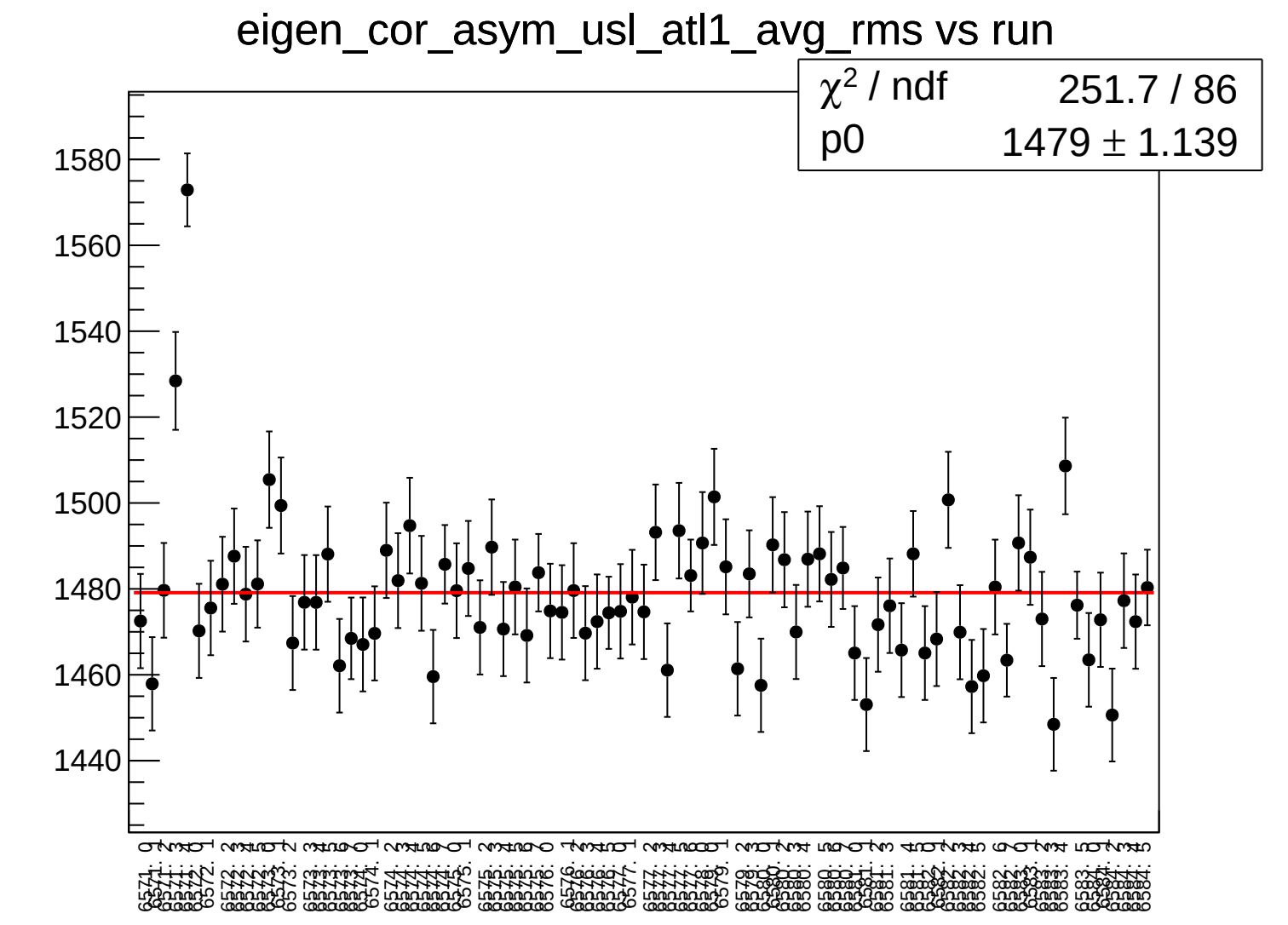

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 251.7 / 86
p0 1479 ± 1.139
1580
1560
1540
1520
1500
1480
1460
1440

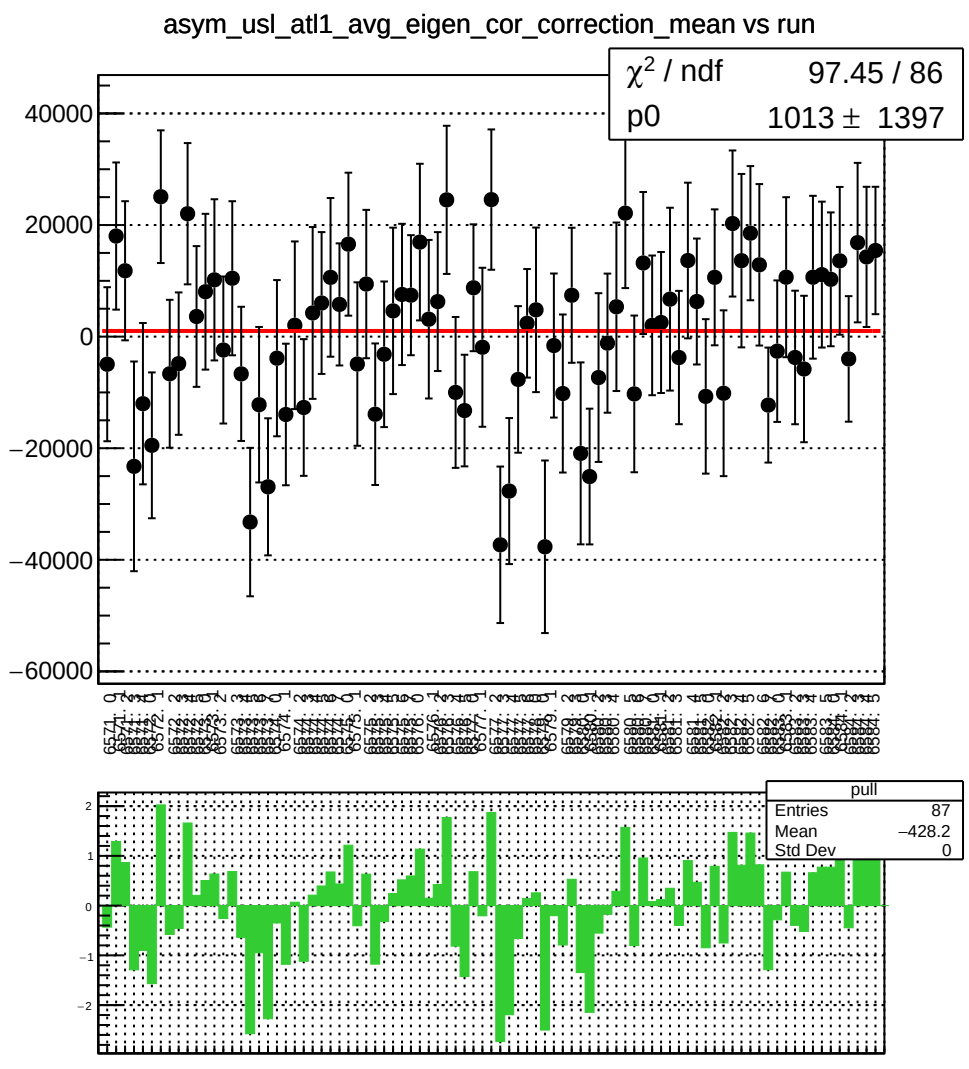

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 97.45 / 86
p0 1013 ± 1397
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −428.2
Std Dev 0
2
1
0
−1
−2

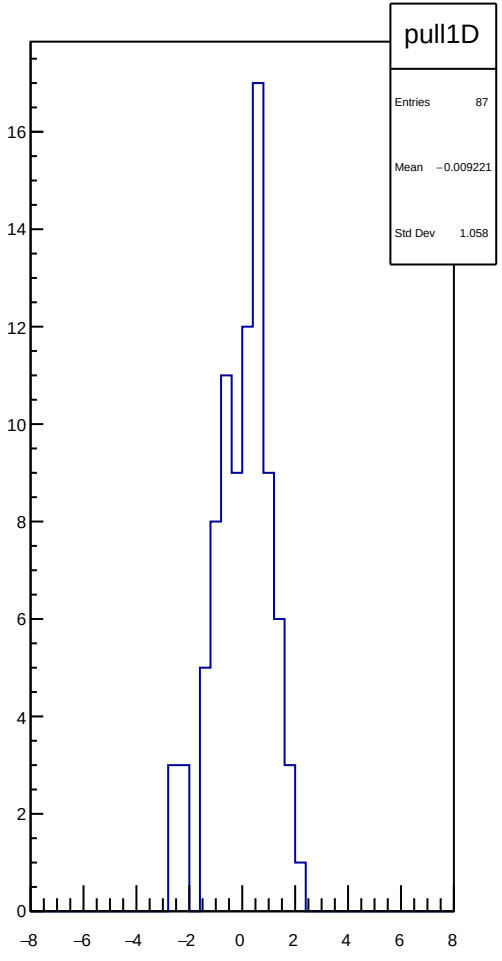

pull1D
Entries 87
Mean −0.009221
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

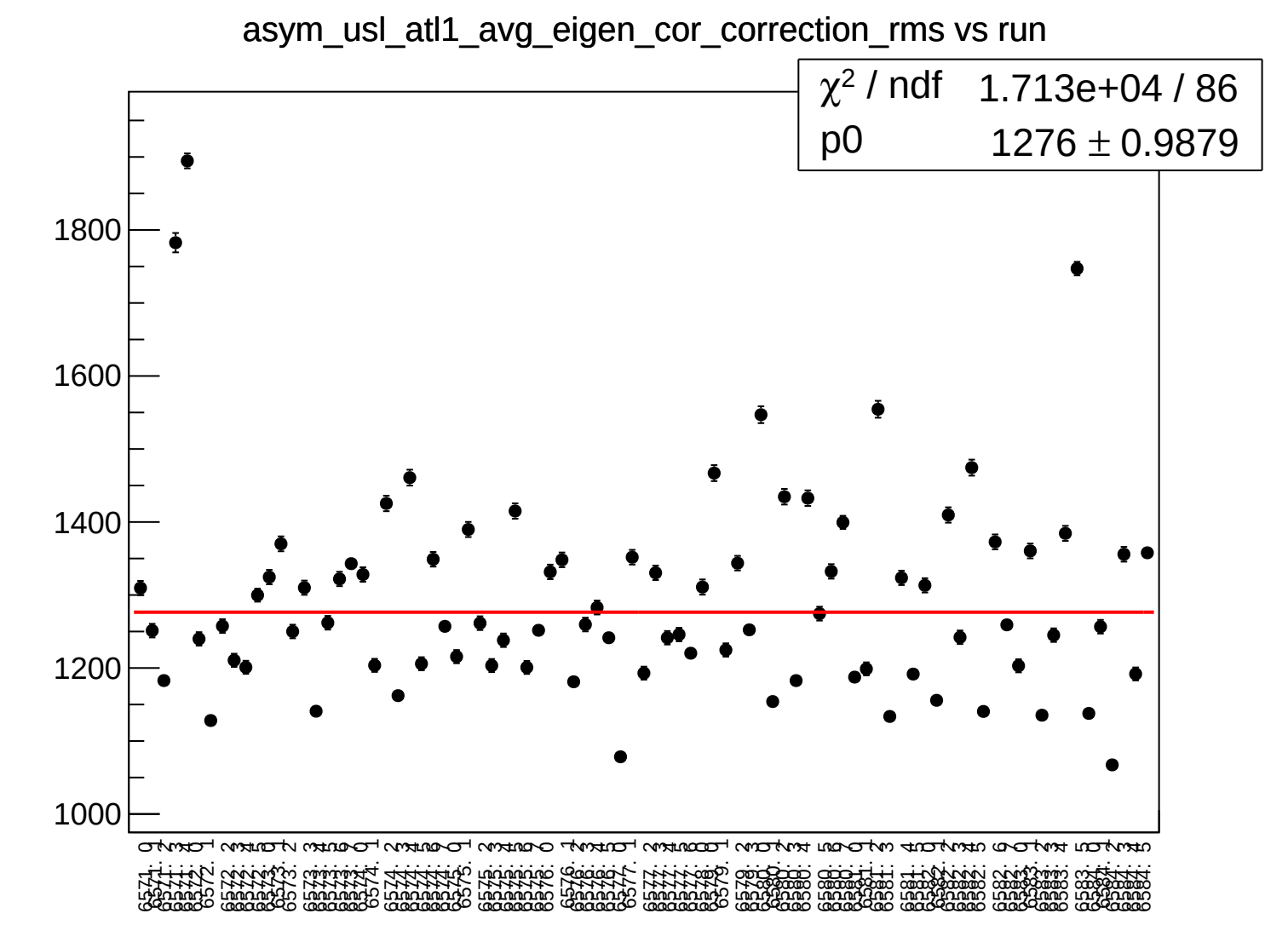

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.713e+04 / 86
p0 1276 ± 0.9879
1800
1600
1400
1200
1000

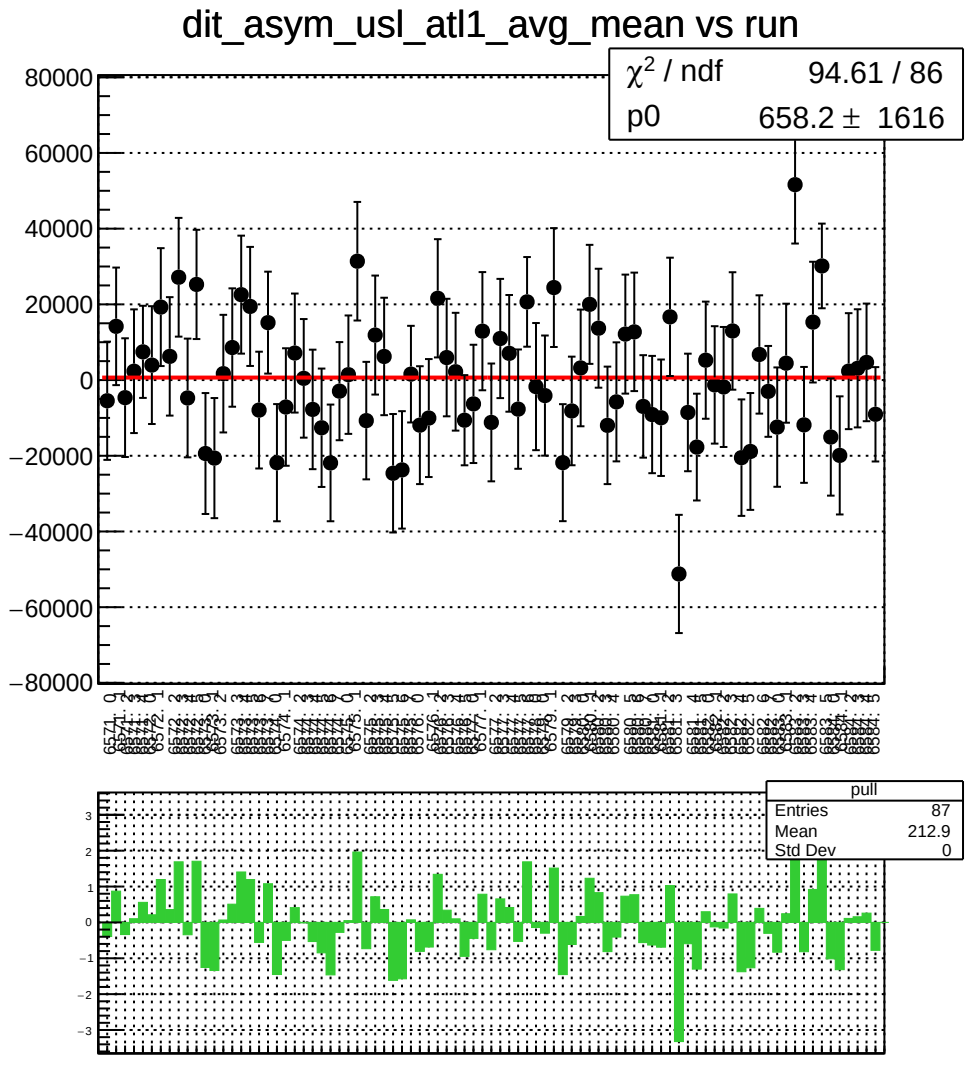

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 95.48 / 86
p0 568.6 ± 1611
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 180.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.01252
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

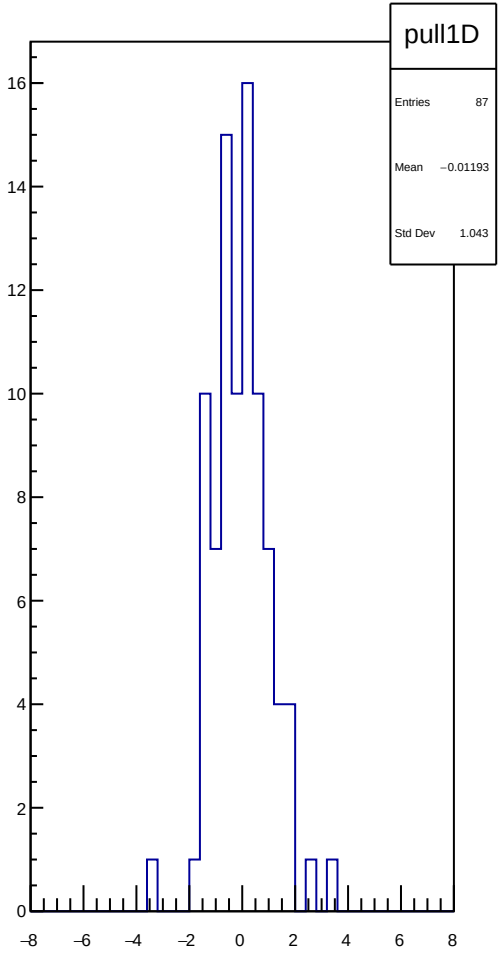

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 251.7 / 86
p0 1479 ± 1.139
1580
1560
1540
1520
1500
1480
1460
1440

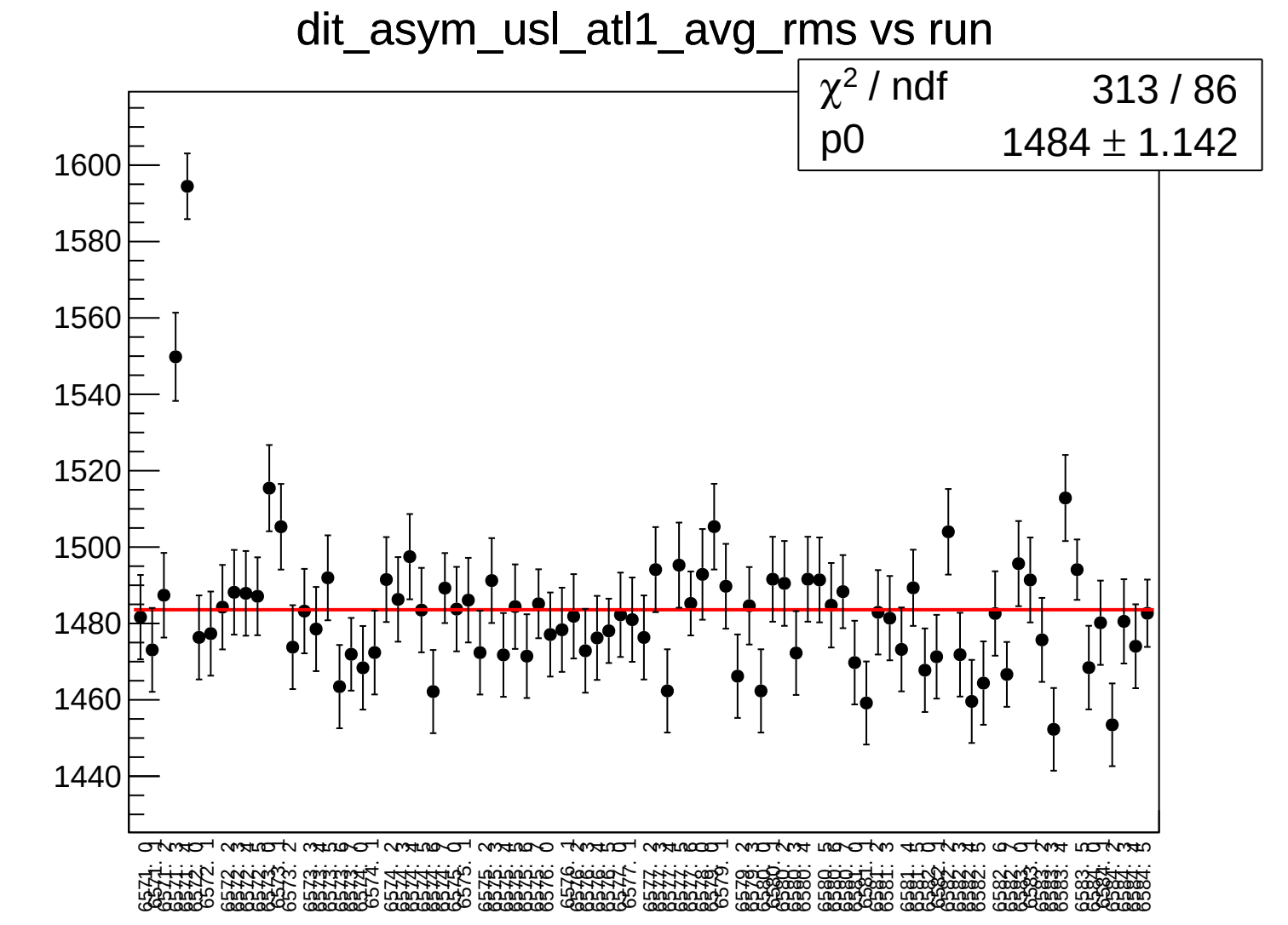

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.45 / 86
p0 1013 ± 1397
pull
Entries 87
Mean −428.2
Std Dev 0

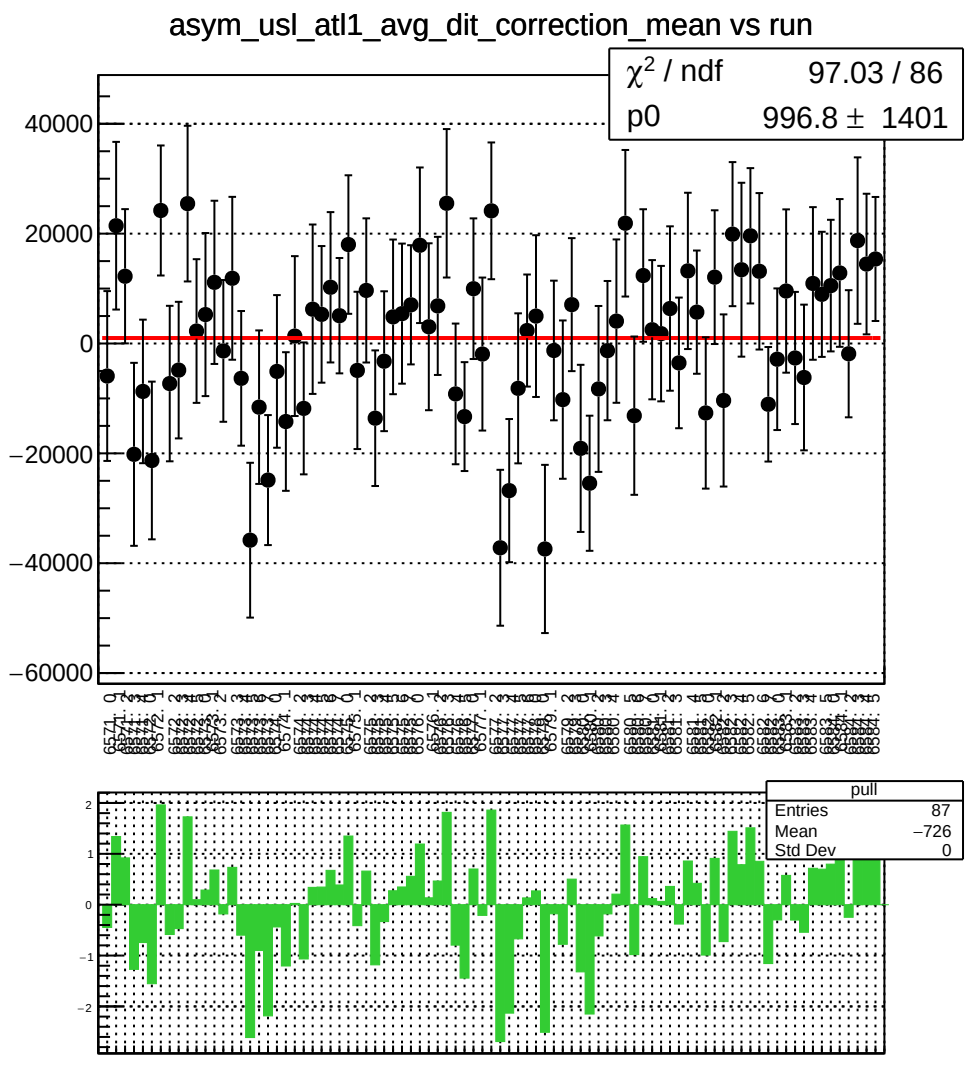

pull1D
Entries 87
Mean −0.009221
Std Dev 1.058

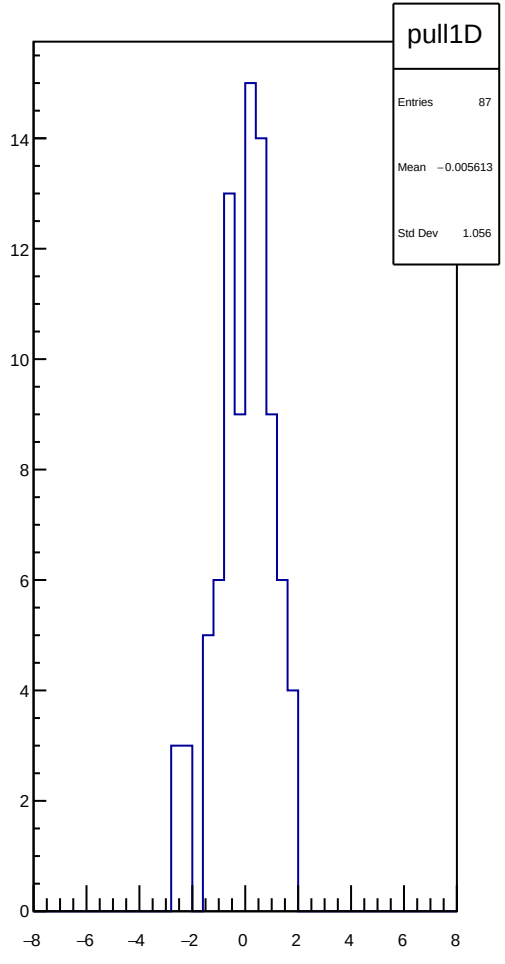

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.713e+04 / 86
p0 1276 ± 0.9879
1800
1600
1400
1200
1000

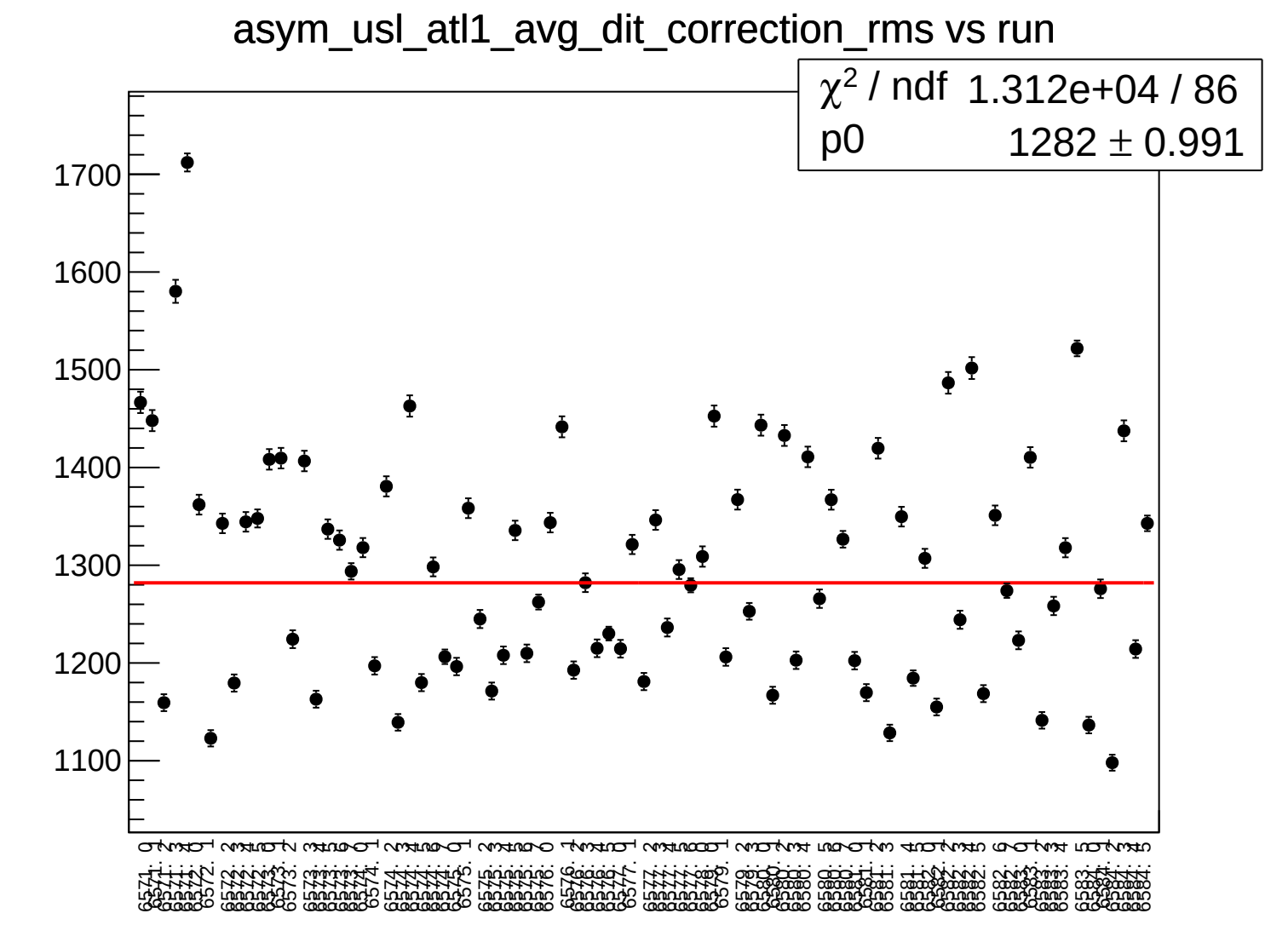

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 94.61 / 86
p0 658.2 ± 1616
pull
Entries 87
Mean 212.9
Std Dev 0

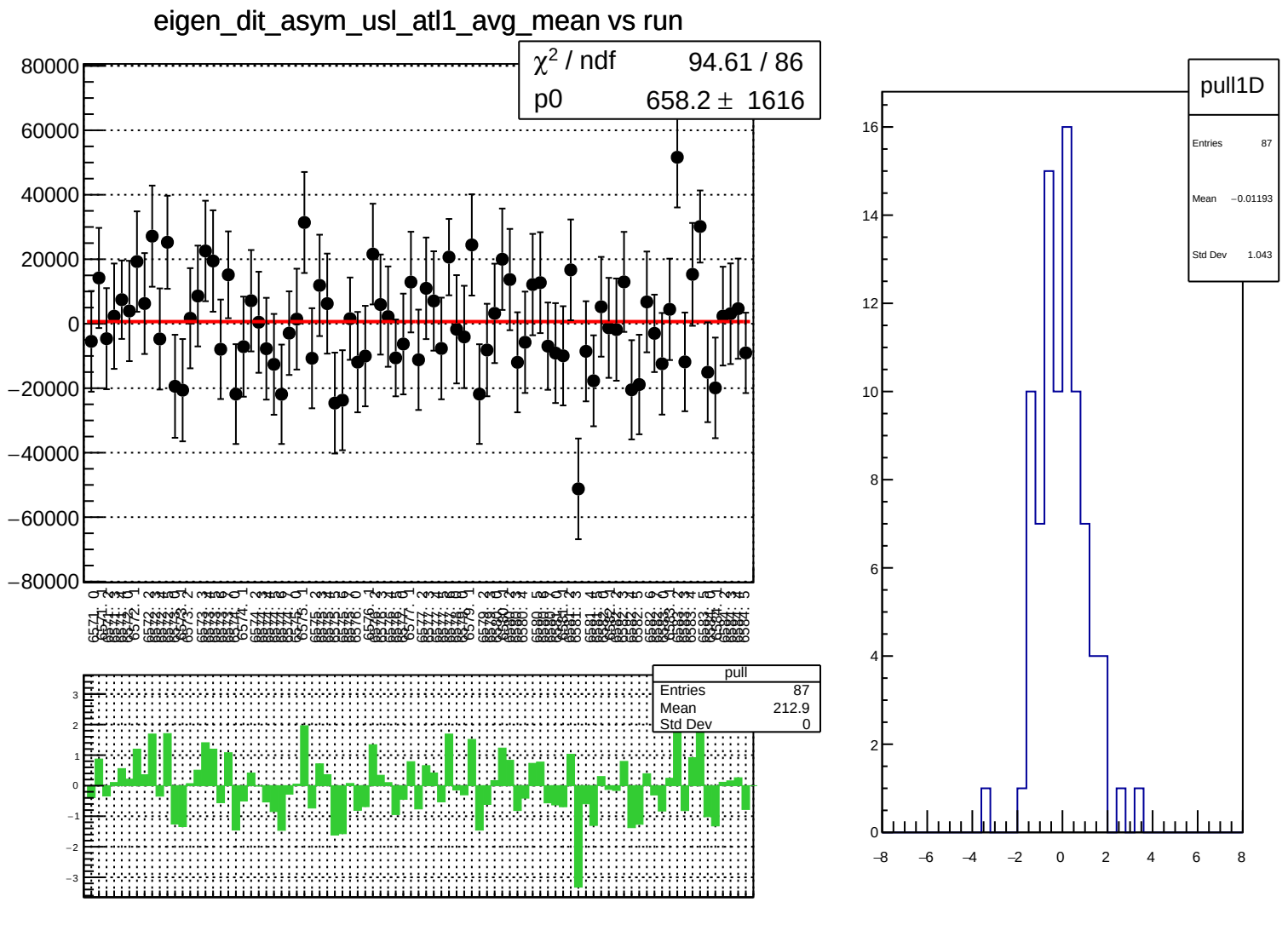

pull1D
Entries 87
Mean −0.01193
Std Dev 1.043

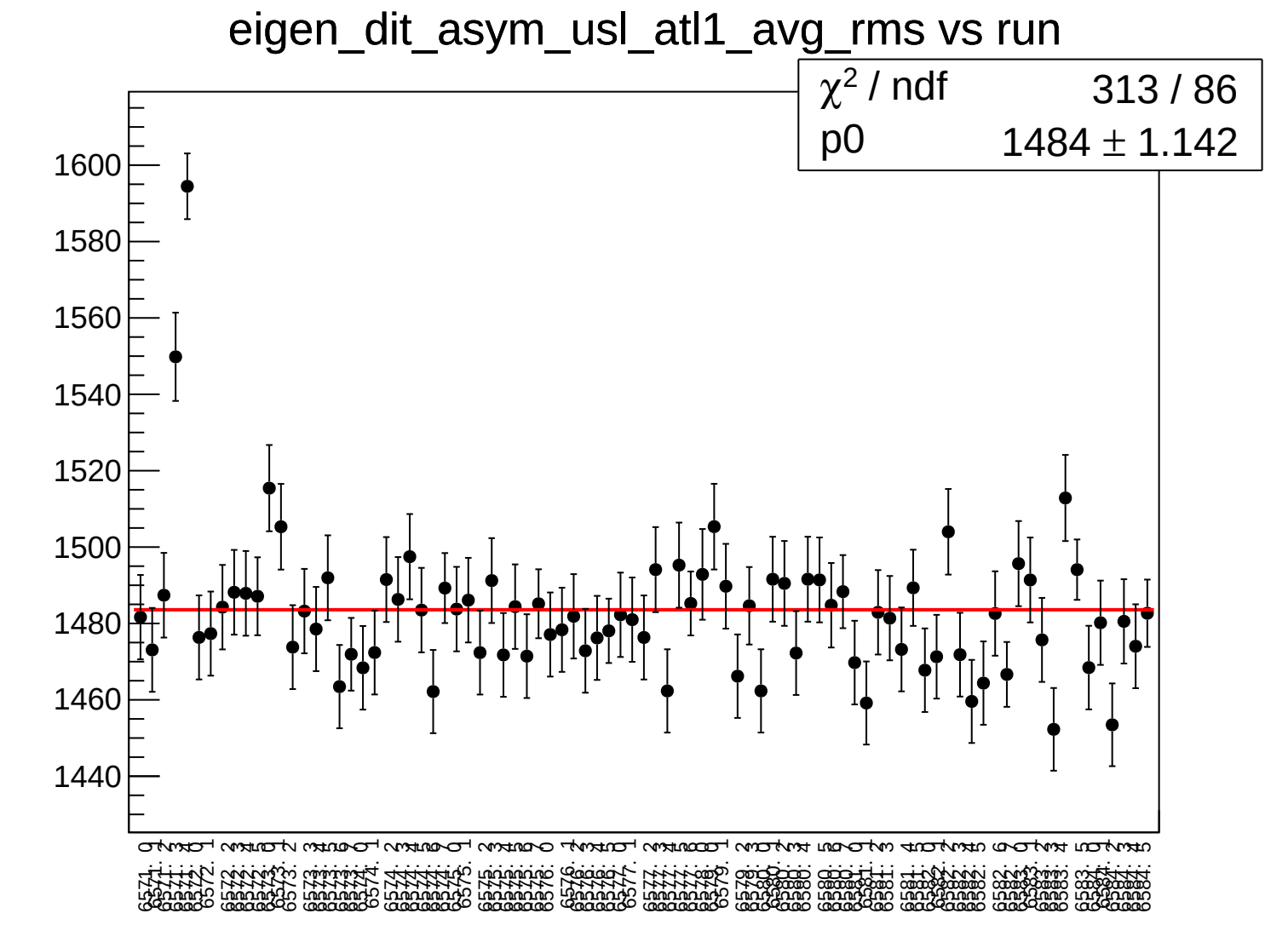

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 313 / 86
p0 1484 ± 1.142
1600
1580
1560
1540
1520
1500
1480
1460
1440

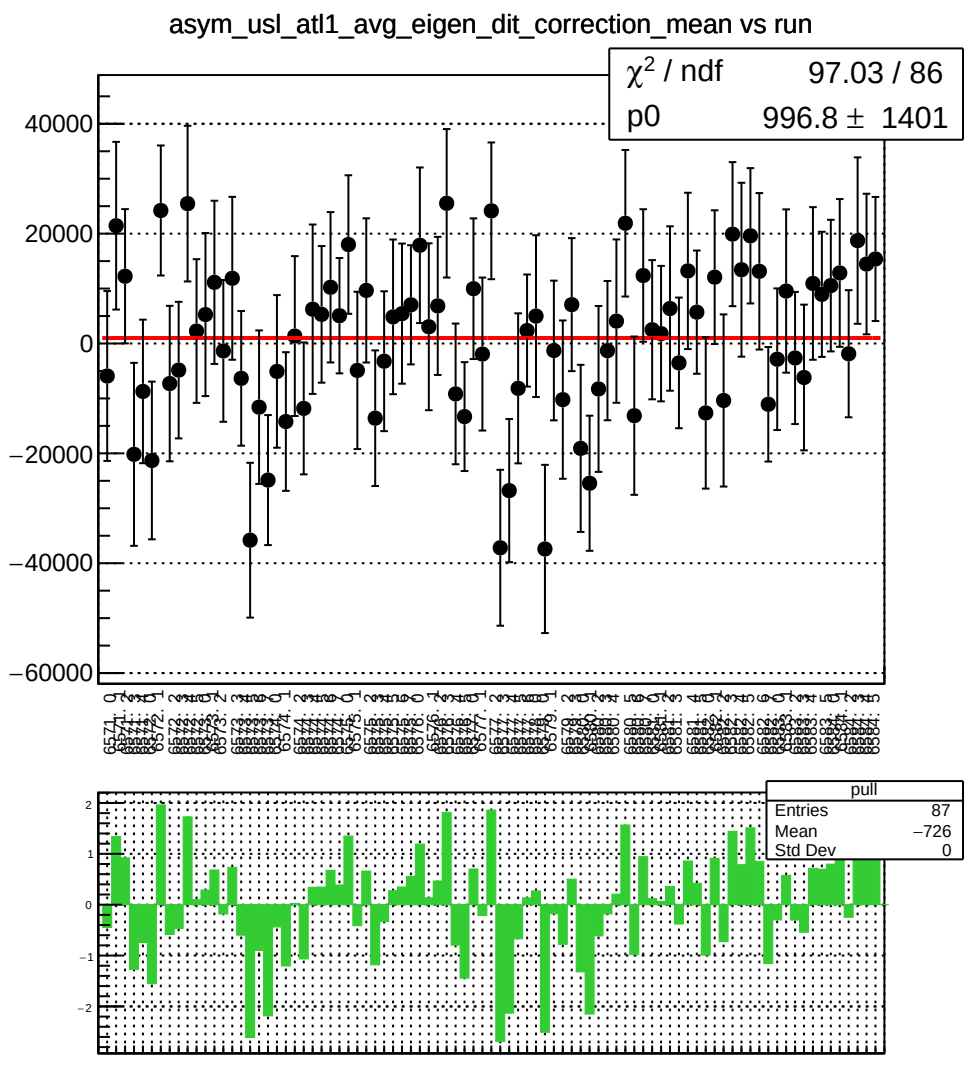

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 97.03 / 86
p0 996.8 ± 1401
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −726
Std Dev 0
2
1
0
−1
−2

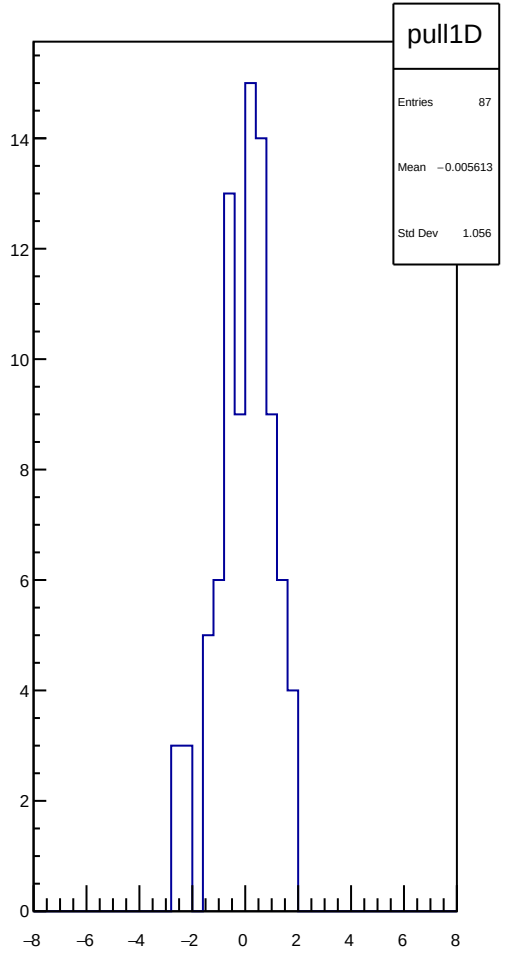

pull1D
Entries 87
Mean −0.005613
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

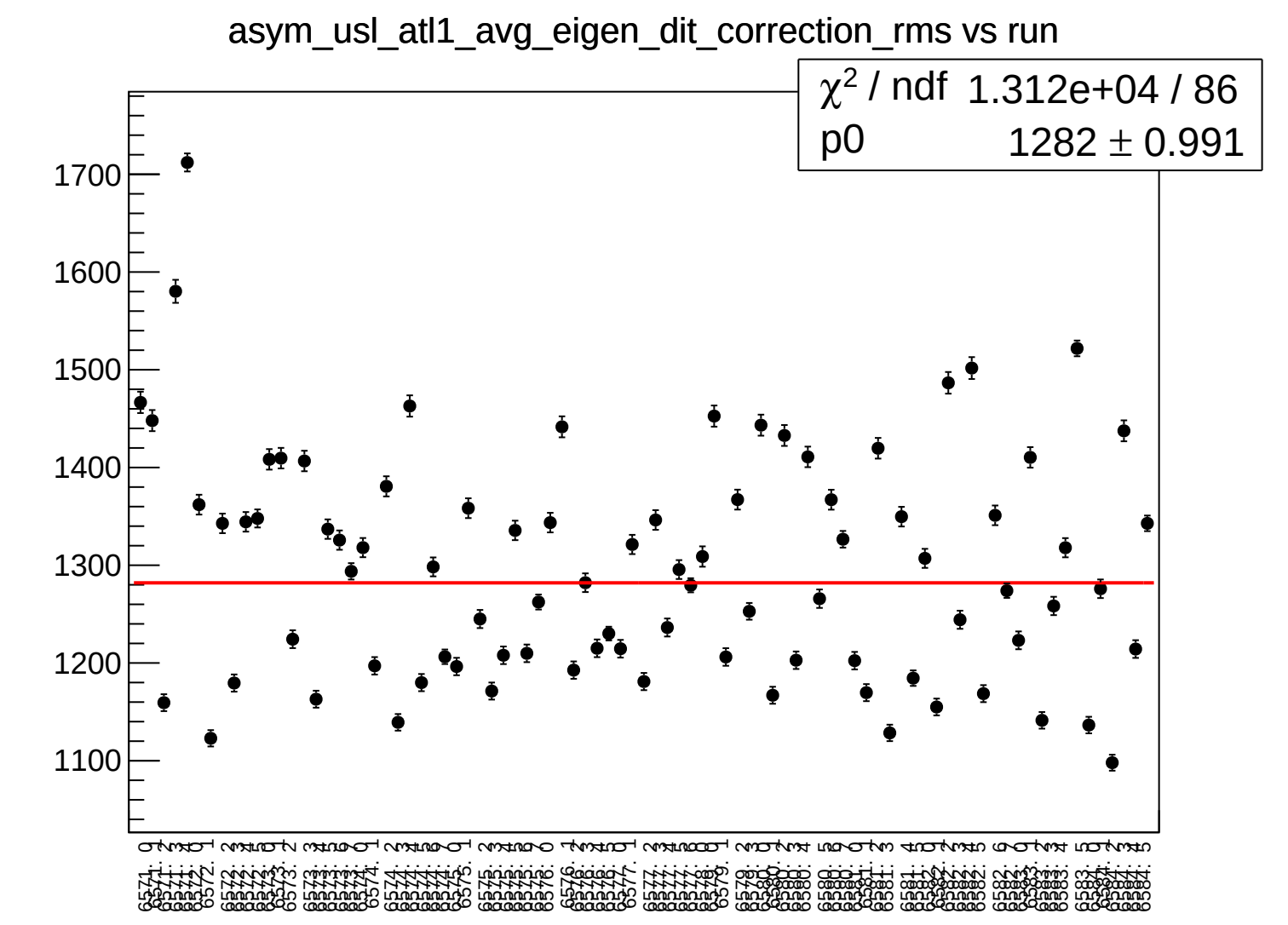

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.312e+04 / 86
p0 1282 ± 0.991
1700
1600
1500
1400
1300
1200
1100

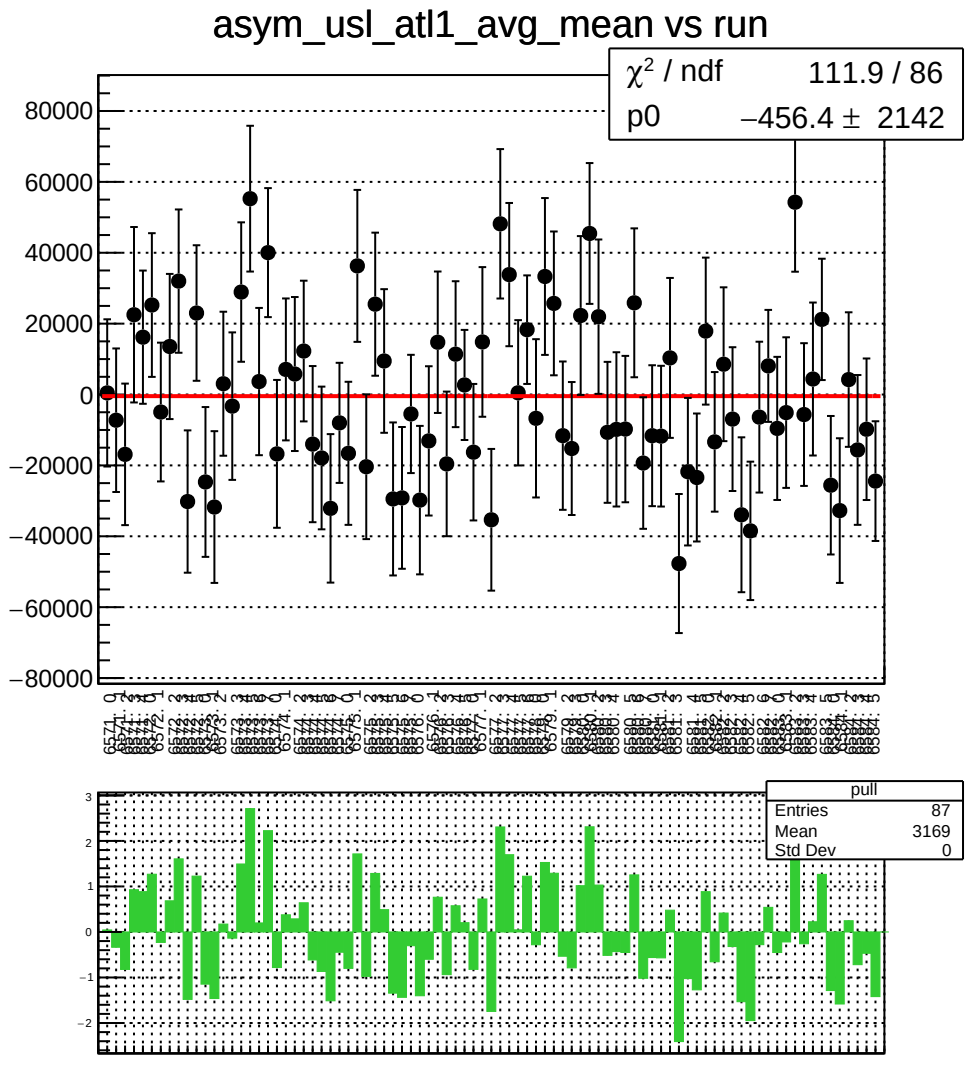

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 94.61 / 86
p0 658.2 ± 1616
pull
Entries 87
Mean 212.9
Std Dev 0
pull1D
Entries 87
Mean −0.01193
Std Dev 1.043

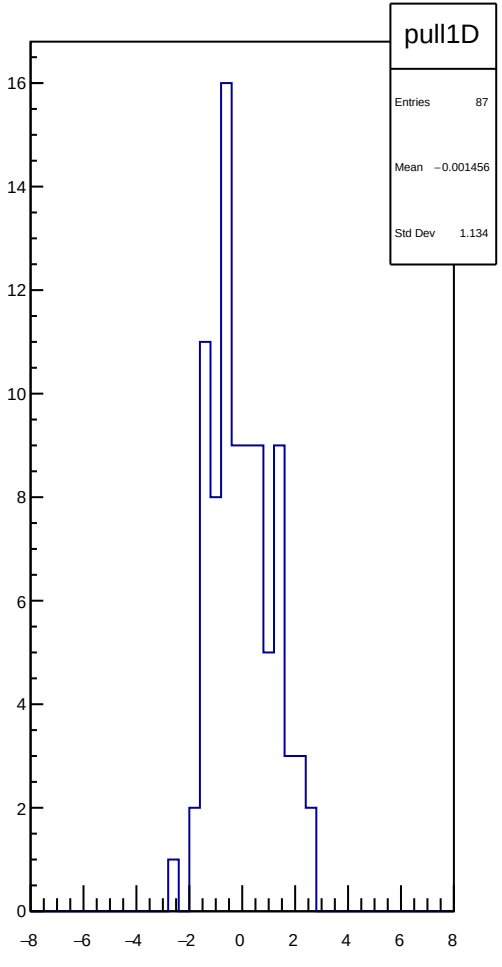

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 313 / 86
p0 1484 ± 1.142
1600
1580
1560
1540
1520
1500
1480
1460
1440

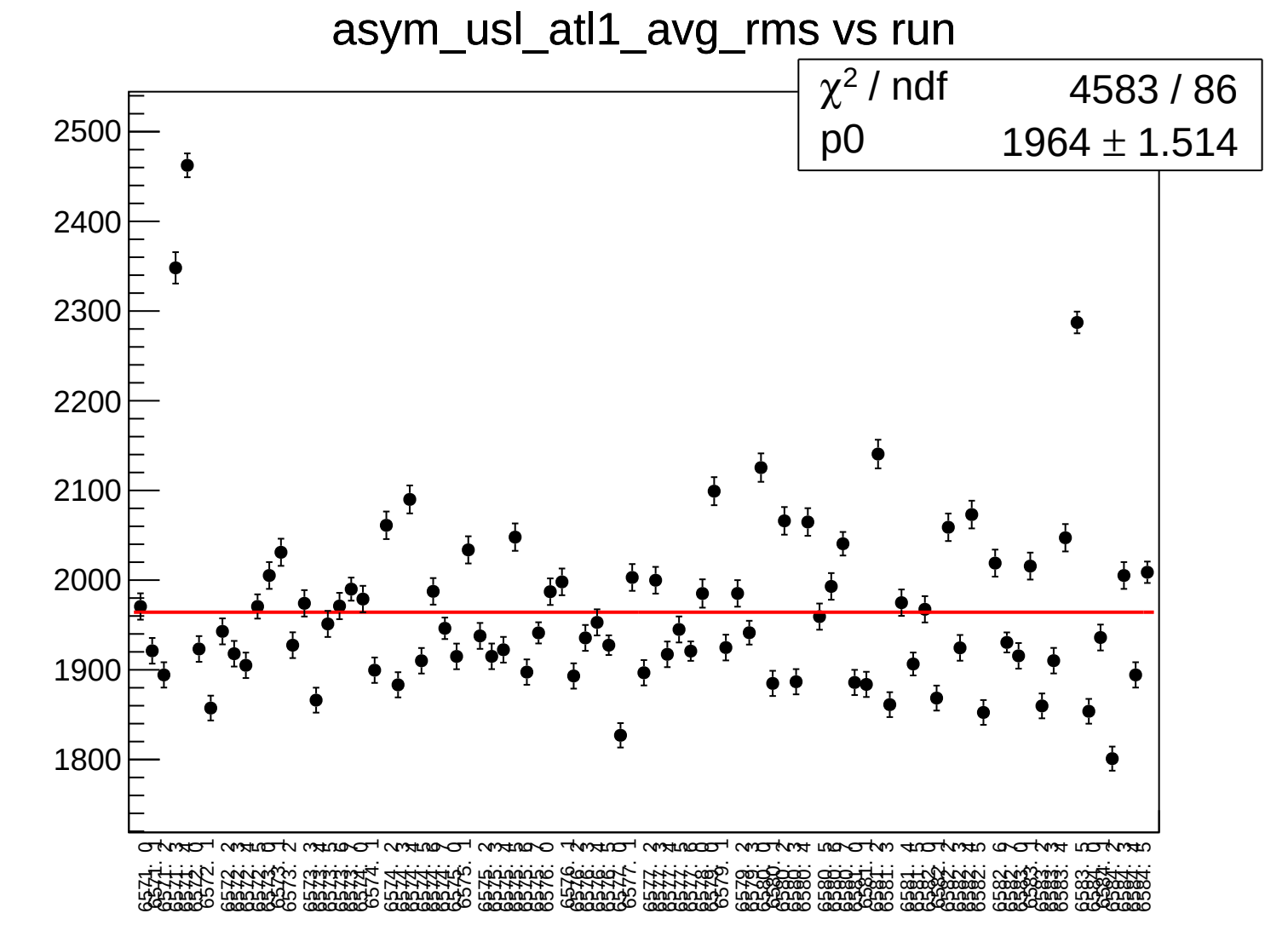

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.03 / 86
p0 996.8 ± 1401
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −726
Std Dev 0
2
1
0
−1
−2

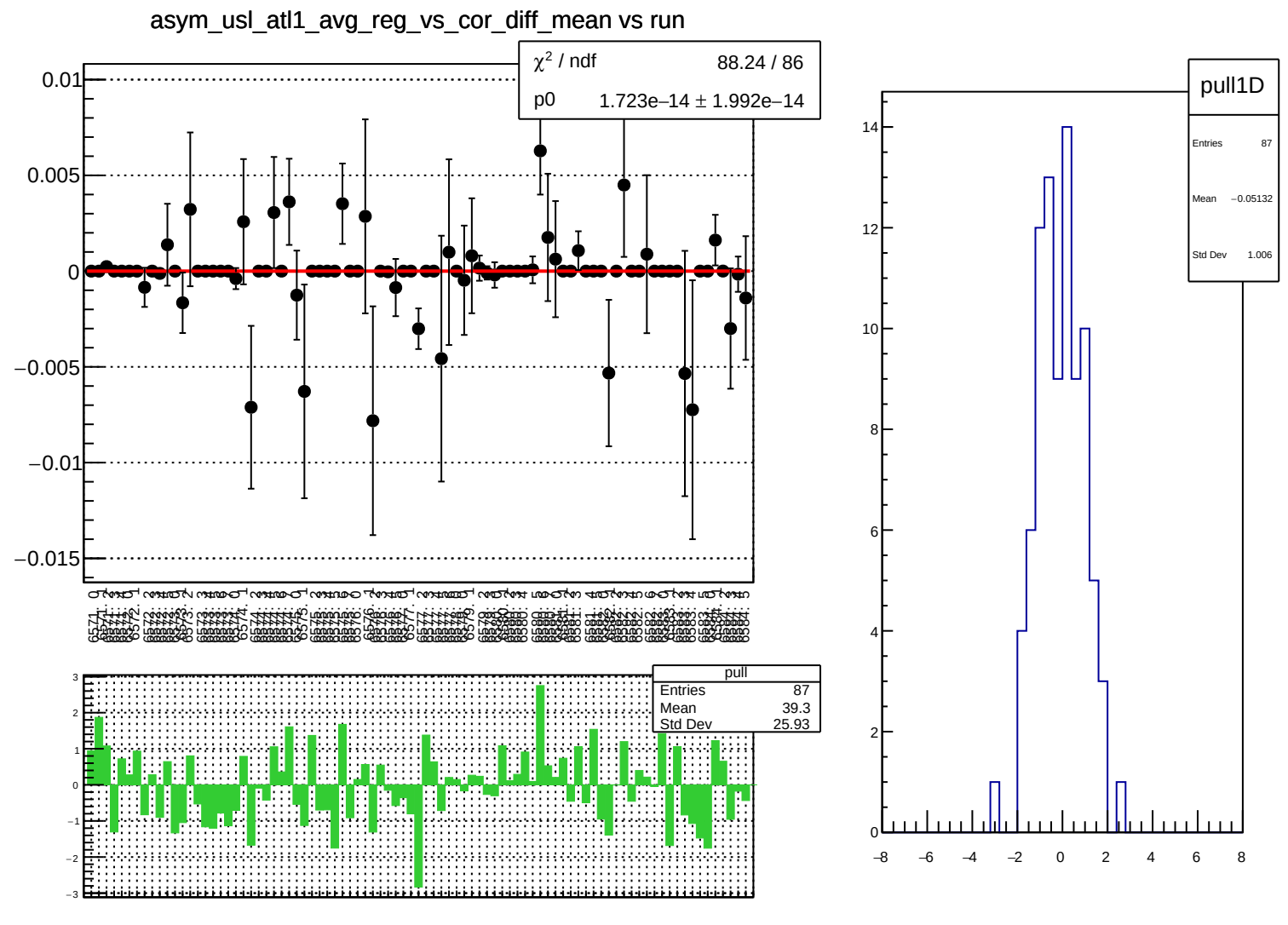

pull1D
Entries 87
Mean −0.005613
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

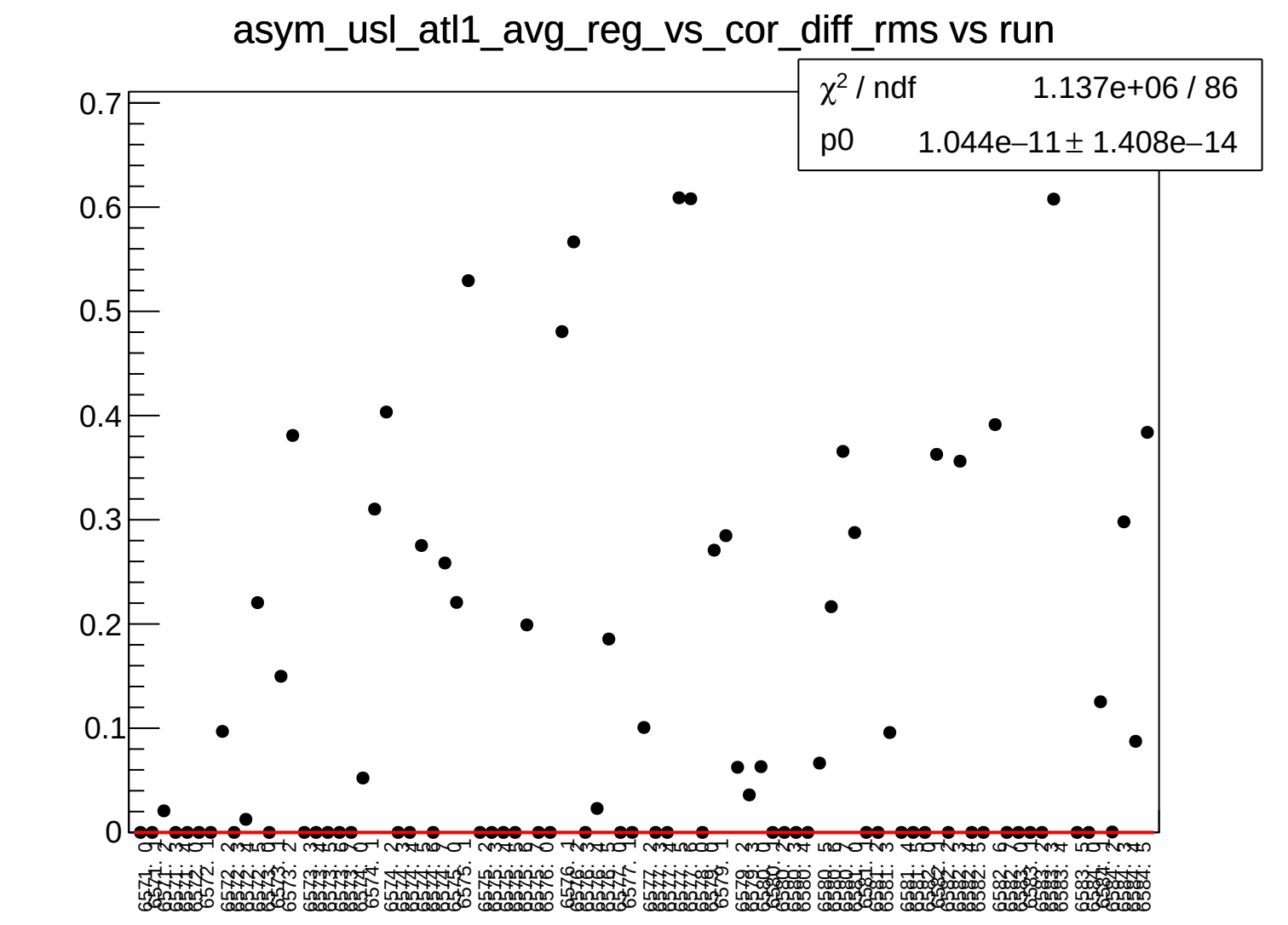

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.312e+04 / 86
p0 1282 ± 0.991
1700
1600
1500
1400
1300
1200
1100

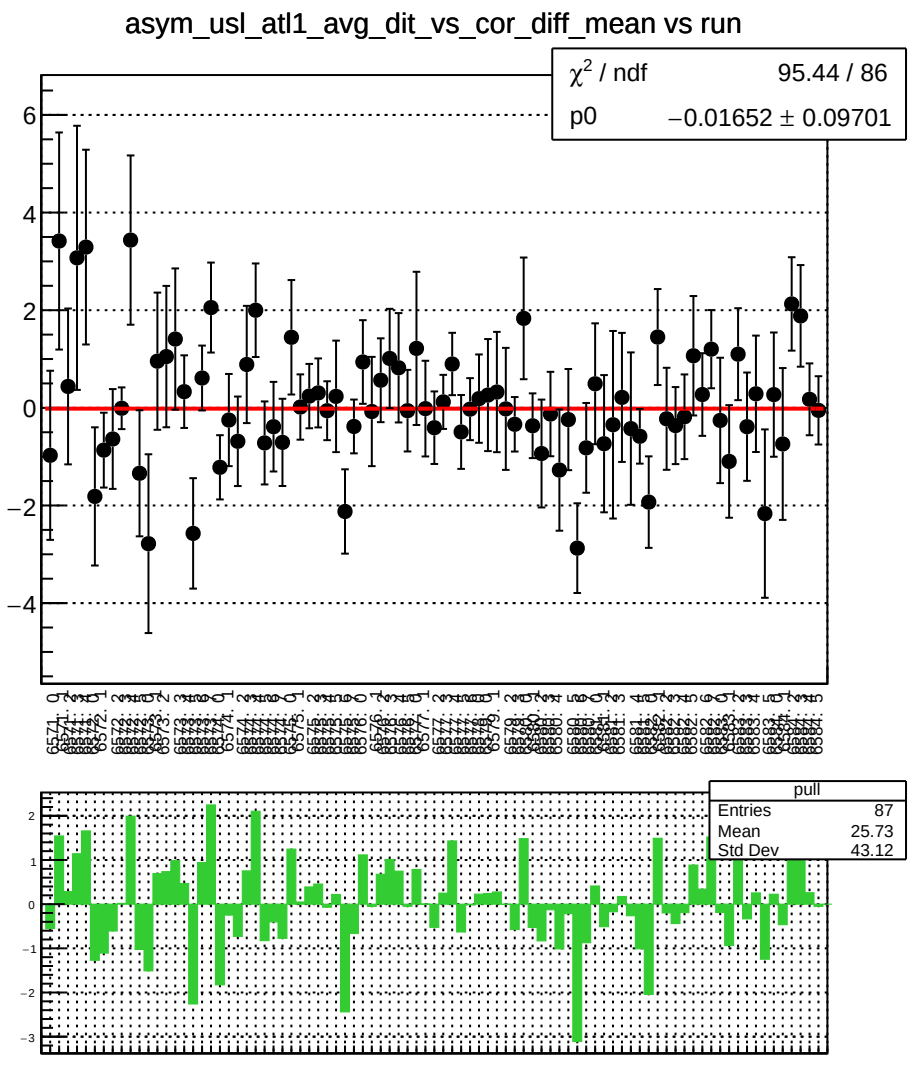

asym_usl_atl1_avg_mean vs run
χ² / ndf 111.9 / 86
p0 −456.4 ± 2142
pull
Entries 87
Mean 3169
Std Dev 0

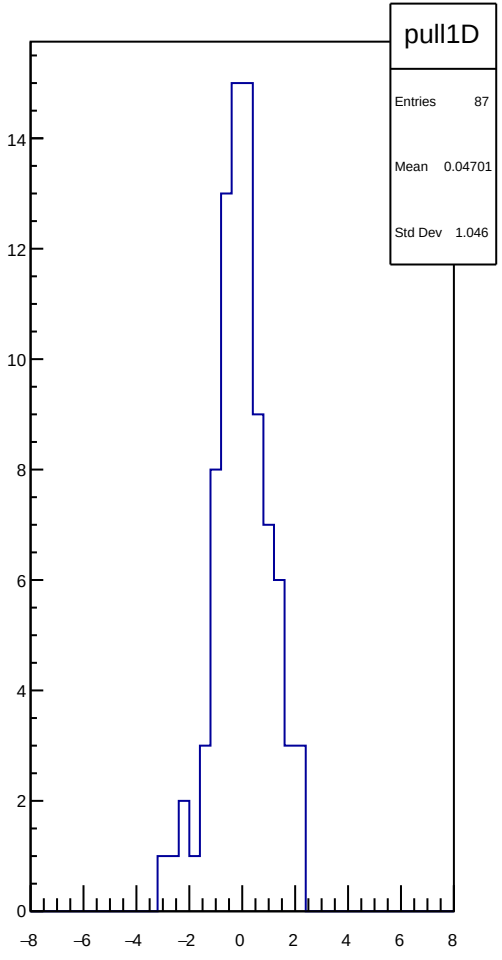

pull1D
Entries 87
Mean −0.001456
Std Dev 1.134

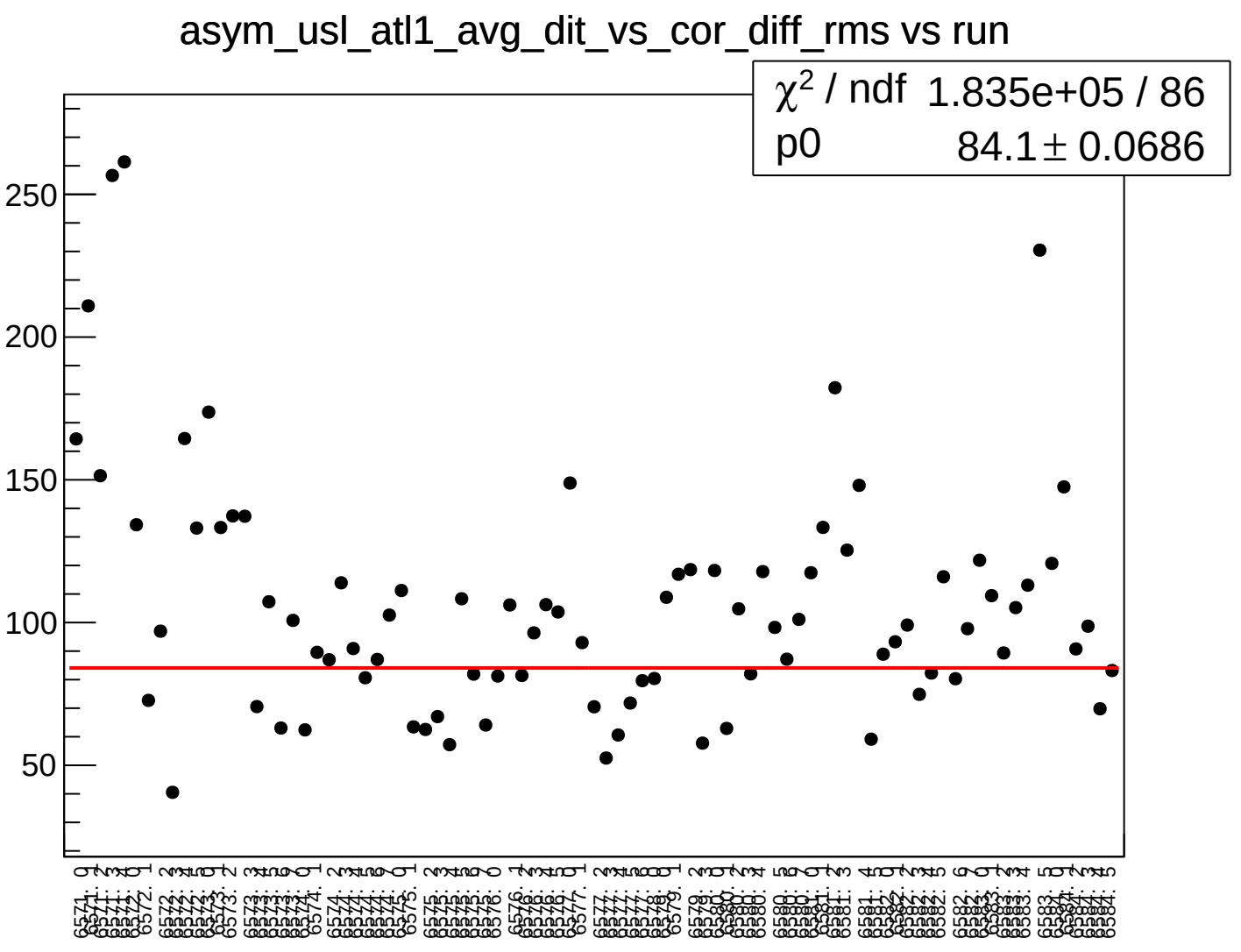

asym_usl_atl1_avg_rms vs run
χ² / ndf 4583 / 86
p0 1964 ± 1.514
2500
2400
2300
2200
2100
2000
1900
1800

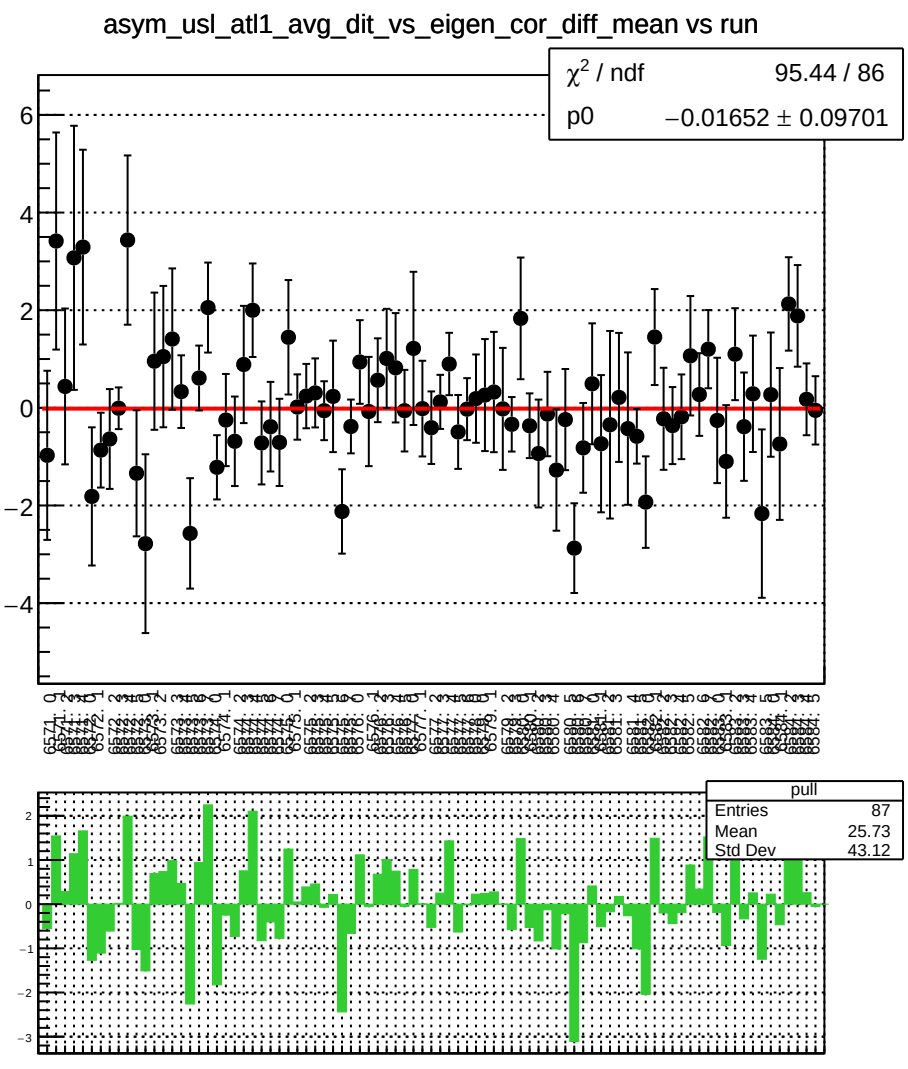

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.24 / 86
p0 1.723e−14 ± 1.992e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 87
Mean 39.3
Std Dev 25.93
pull1D
Entries 87
Mean −0.05132
Std Dev 1.006

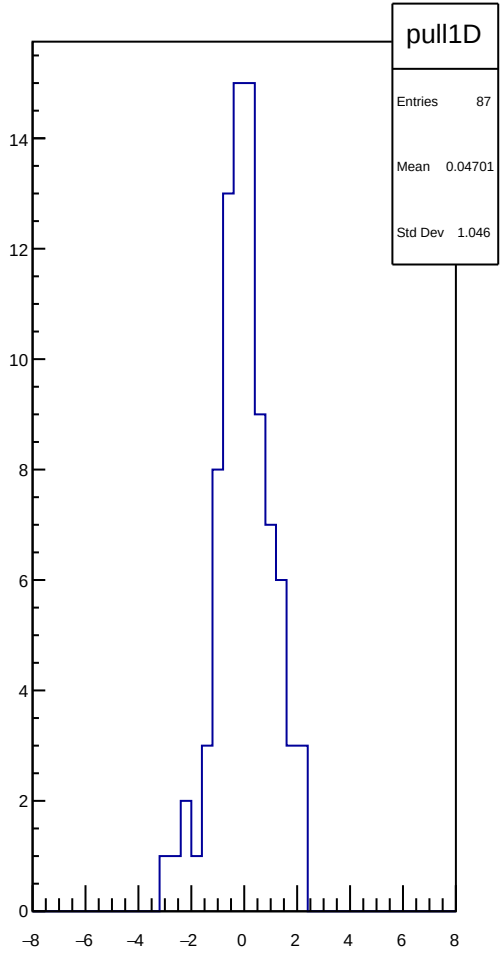

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.137e+06 / 86
p0 1.044e−11 ± 1.408e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

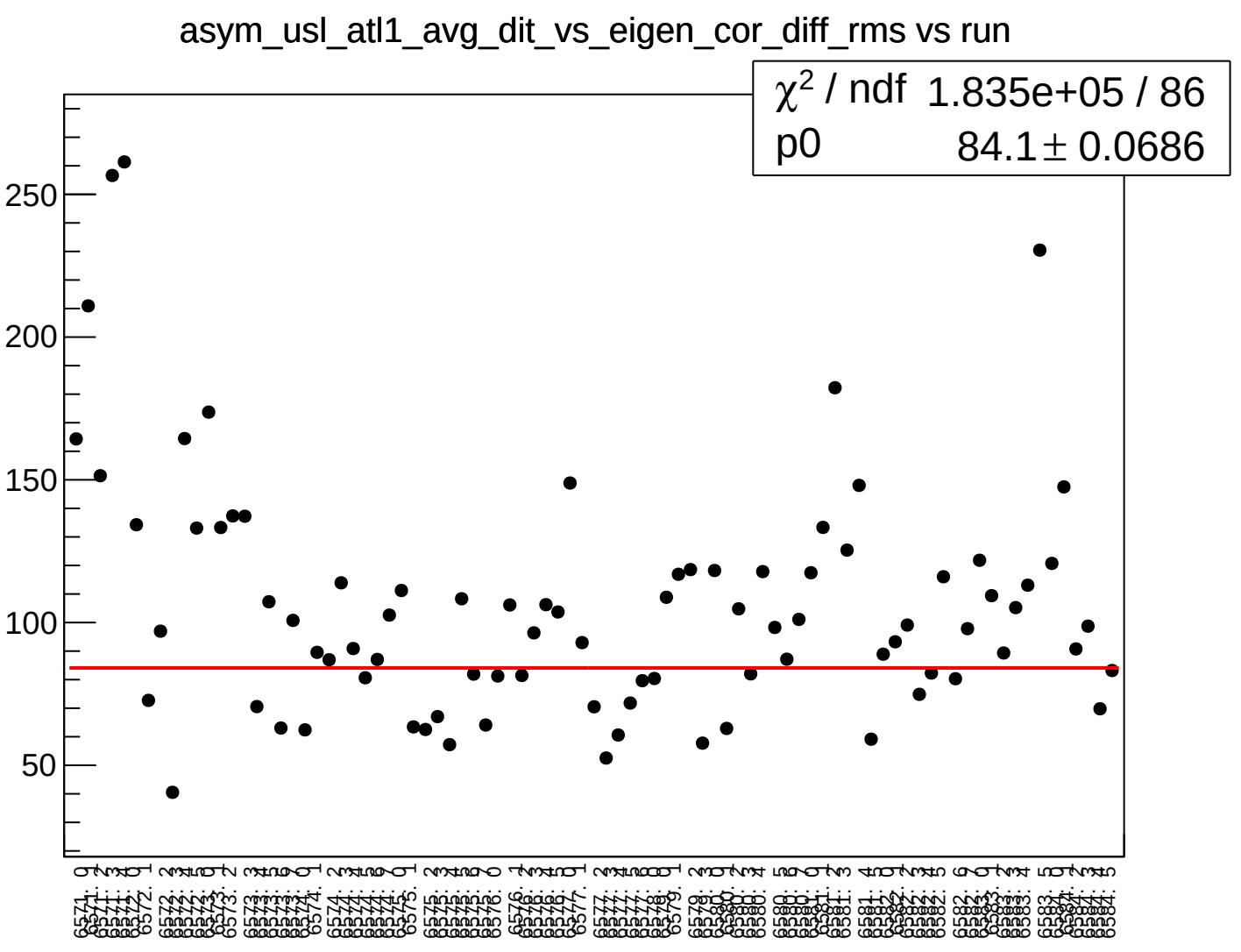

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.44 / 86
p0 −0.01652 ± 0.09701
pull
Entries 87
Mean 25.73
Std Dev 43.12

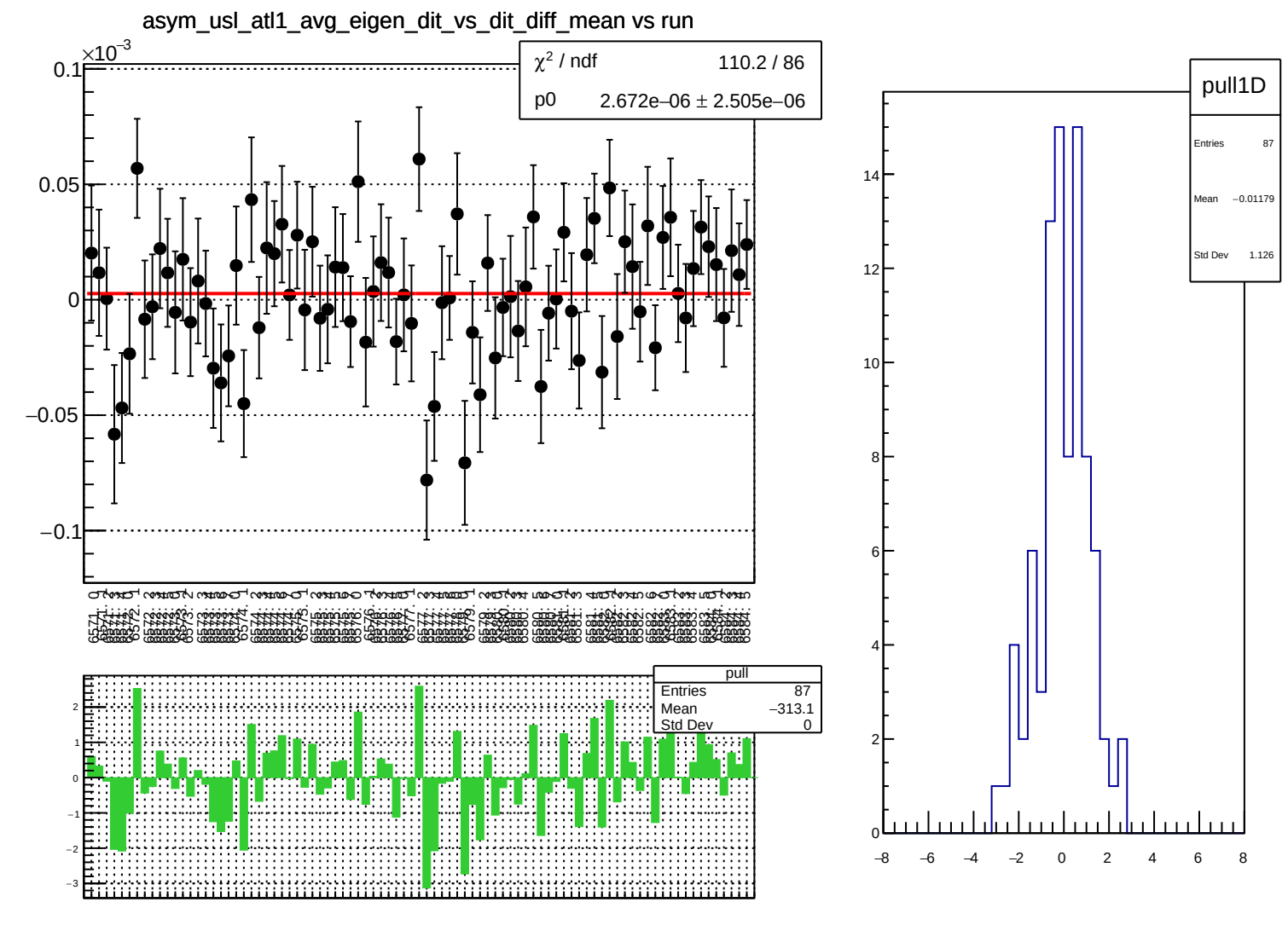

pull1D
Entries 87
Mean 0.04701
Std Dev 1.046

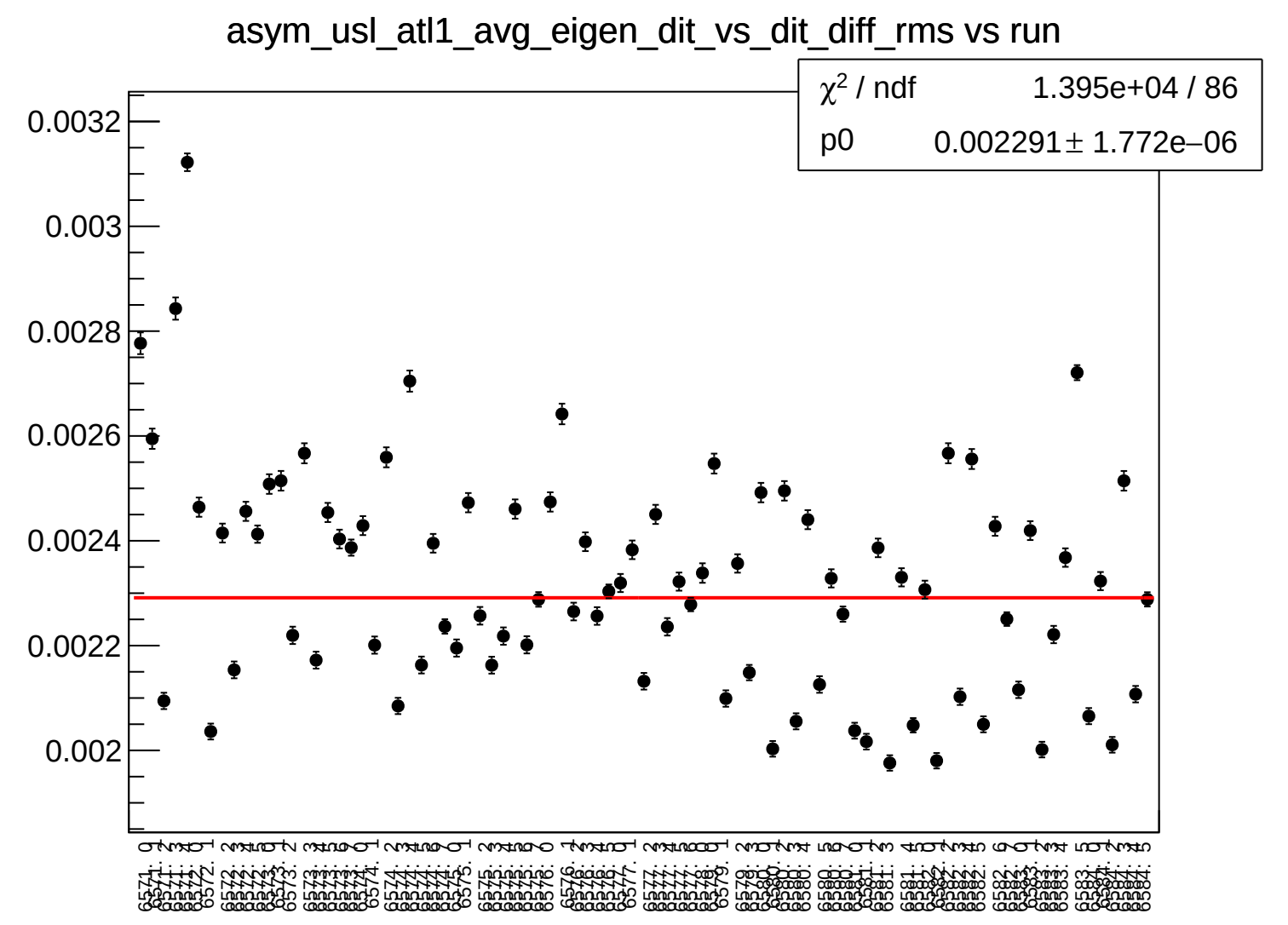

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.835e+05 / 86
p0 84.1 ± 0.0686
250
200
150
100
50

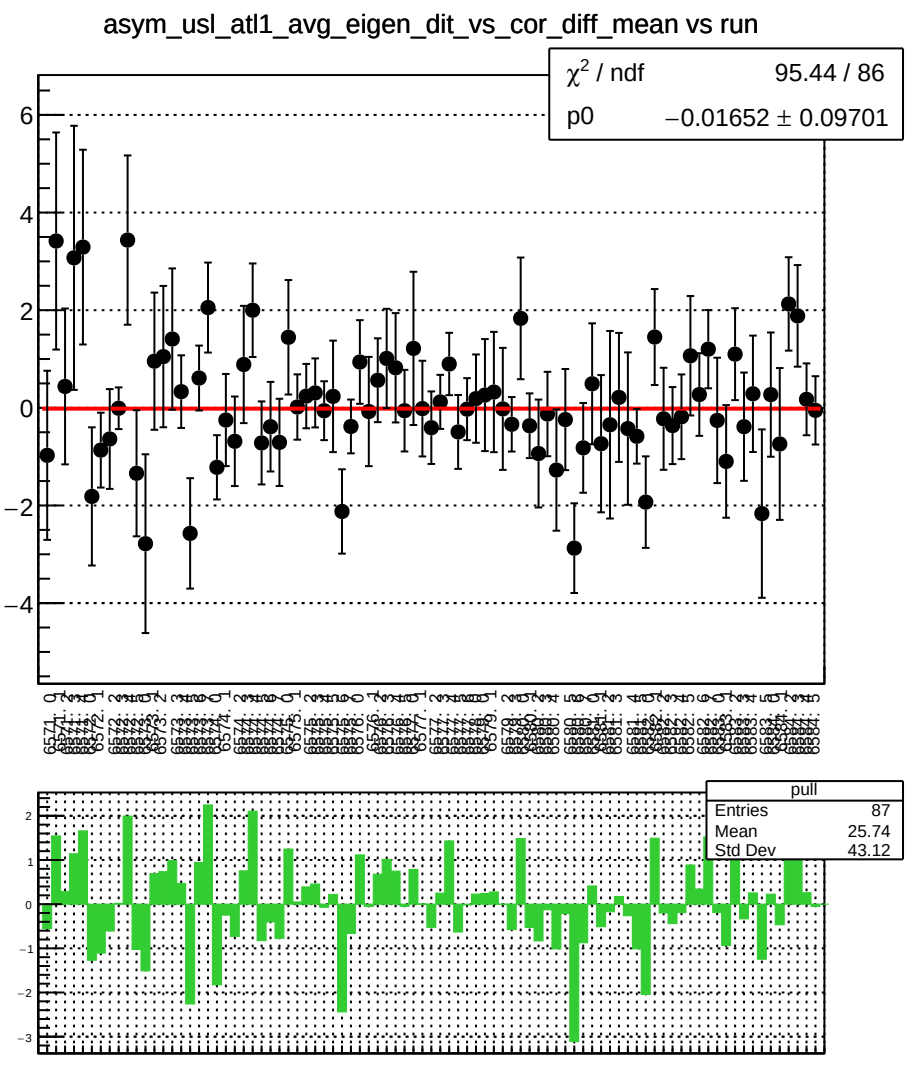

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.44 / 86
p0 −0.01652 ± 0.09701
pull
Entries 87
Mean 25.73
Std Dev 43.12

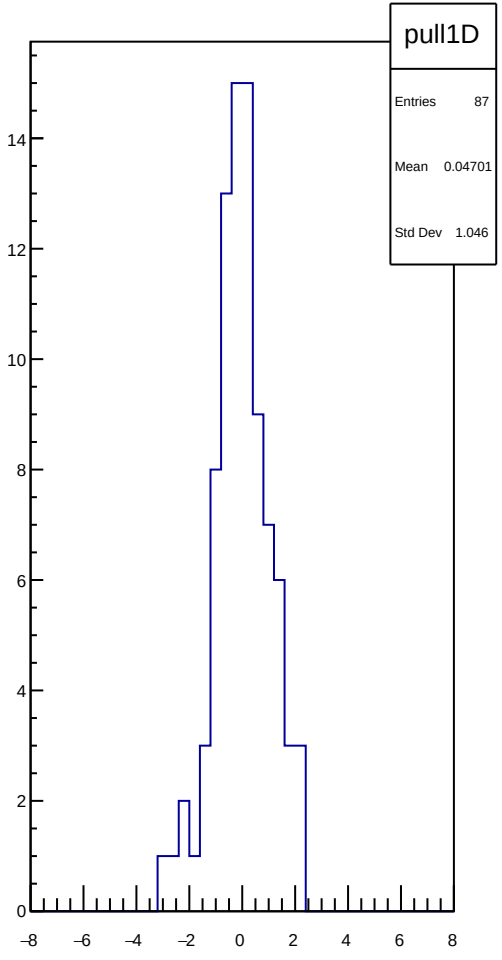

pull1D
Entries 87
Mean 0.04701
Std Dev 1.046

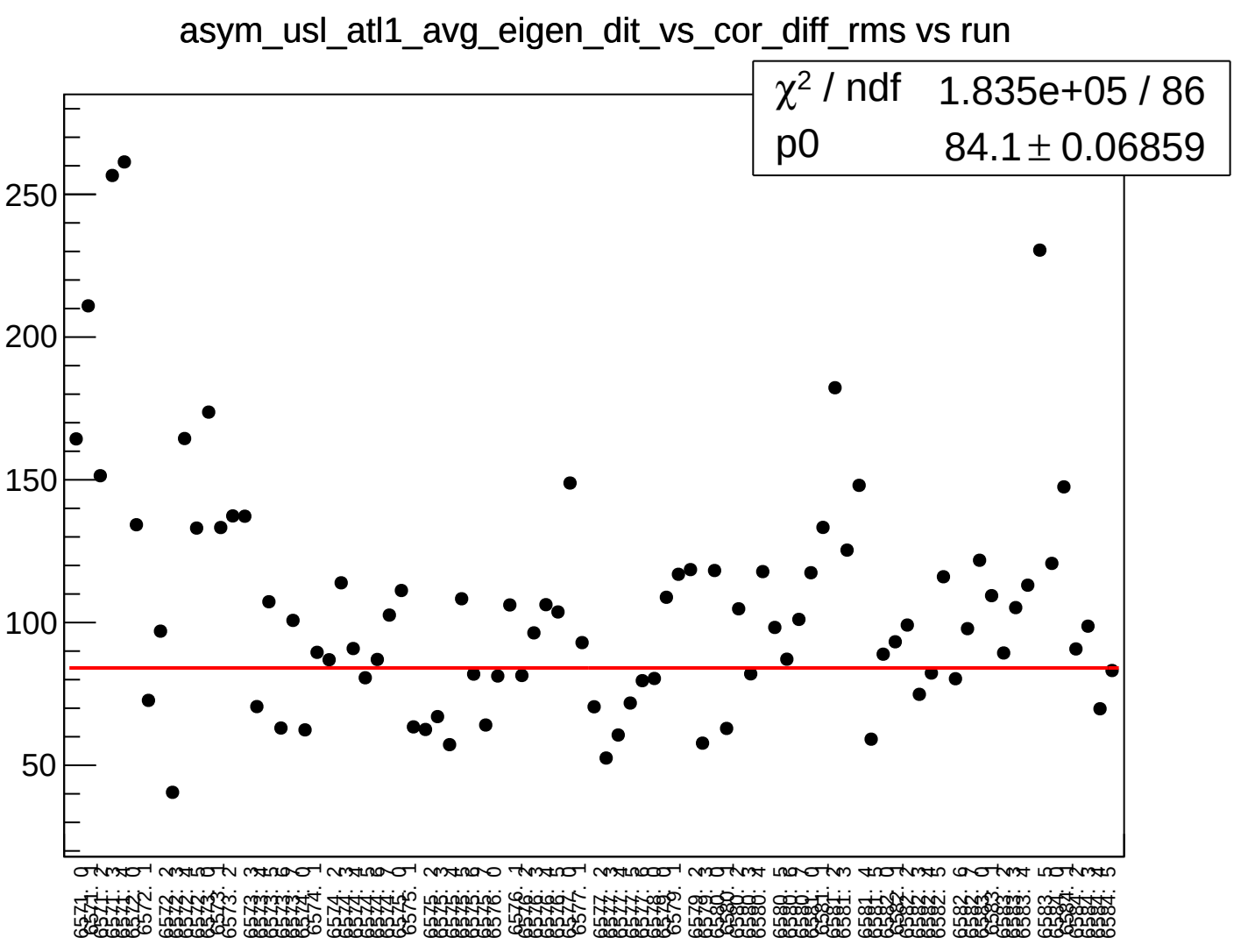

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.835e+05 / 86
p0 84.1 ± 0.0686
250
200
150
100
50

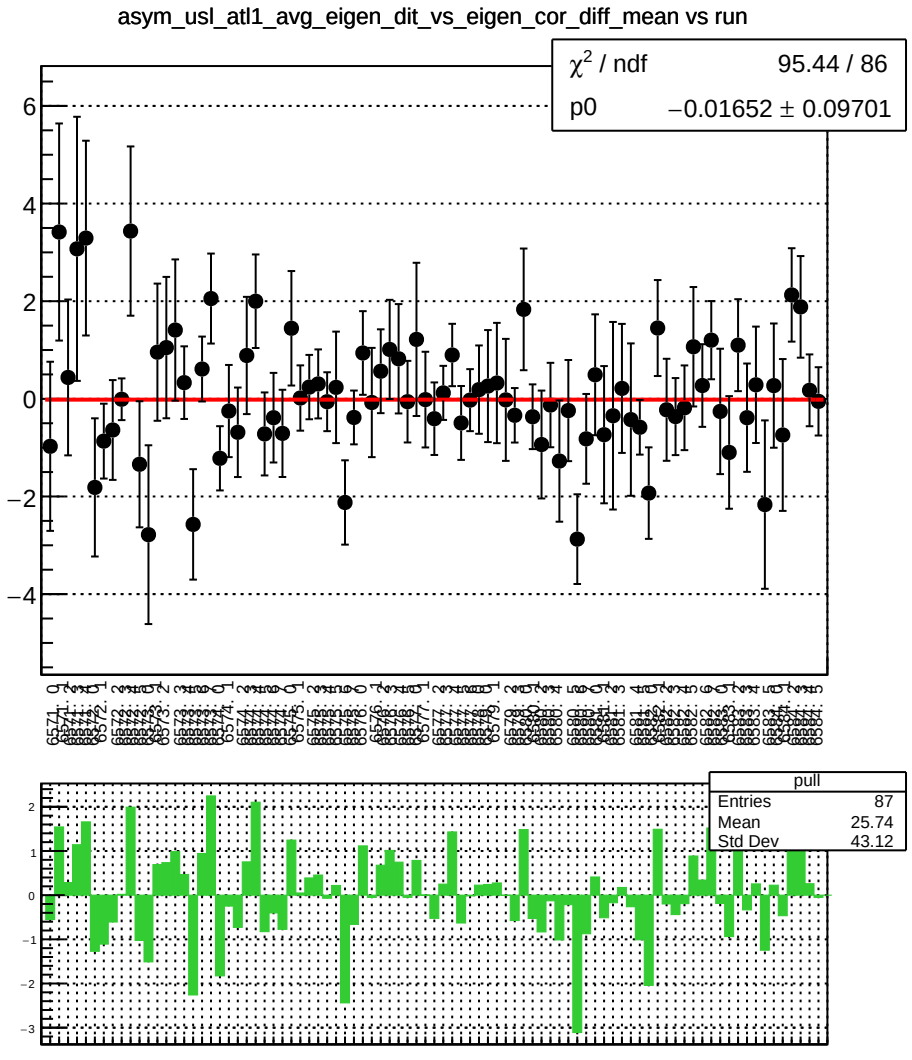

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.2 / 86
p0 2.672e−06 ± 2.505e−06
pull
Entries 87
Mean −313.1
Std Dev 0
pull1D
Entries 87
Mean −0.01179
Std Dev 1.126

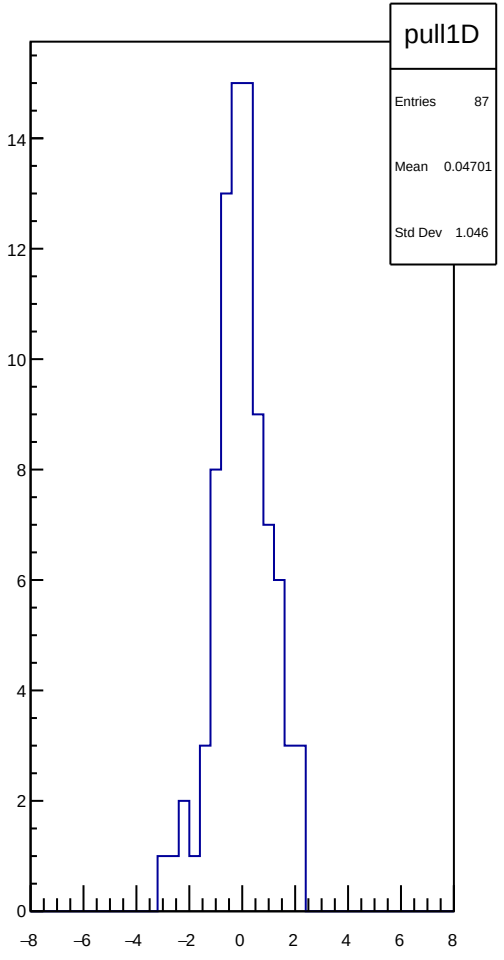

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.395e+04 / 86
p0 0.002291 ± 1.772e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

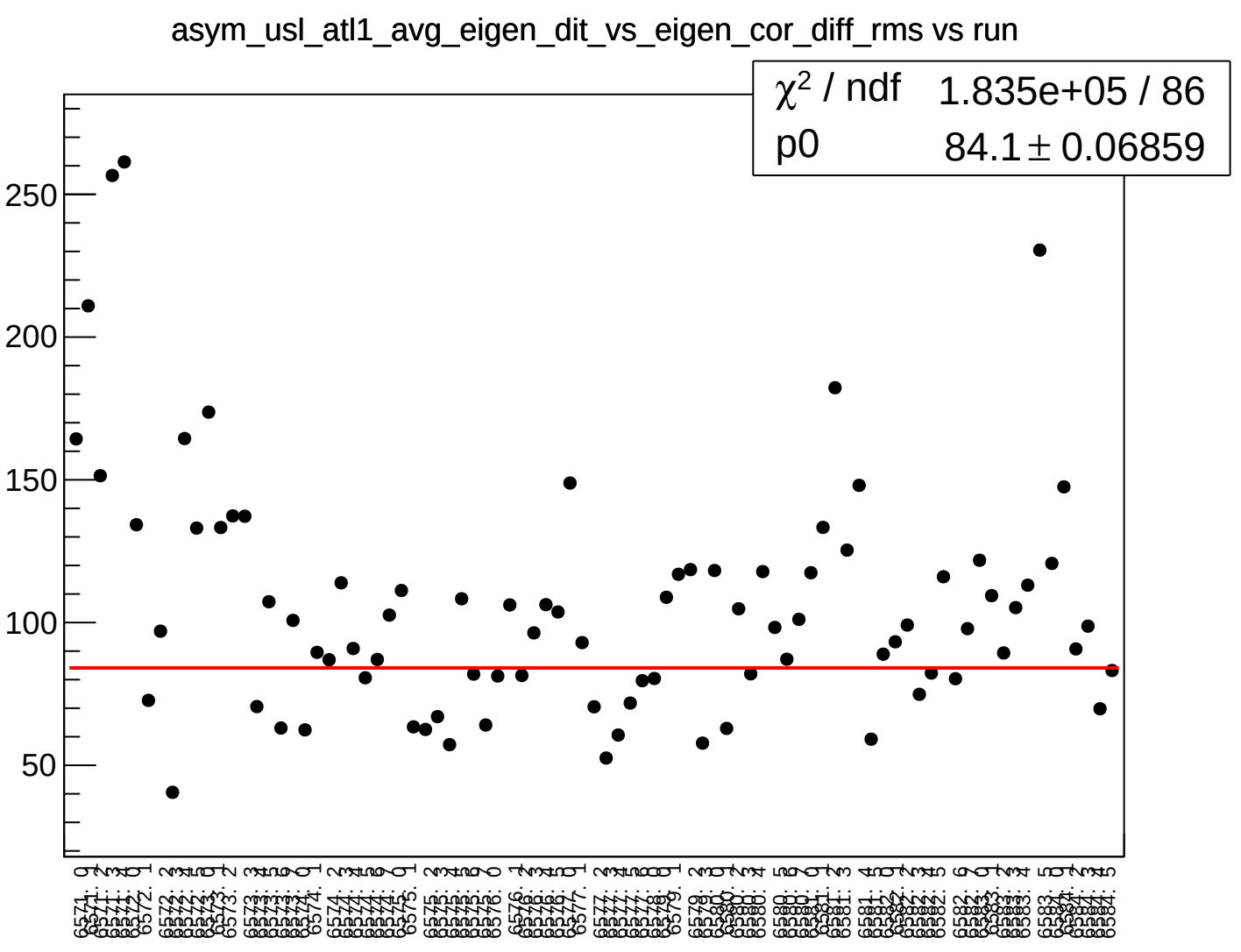

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.44 / 86
p0 −0.01652 ± 0.09701
pull
Entries 87
Mean 25.74
Std Dev 43.12

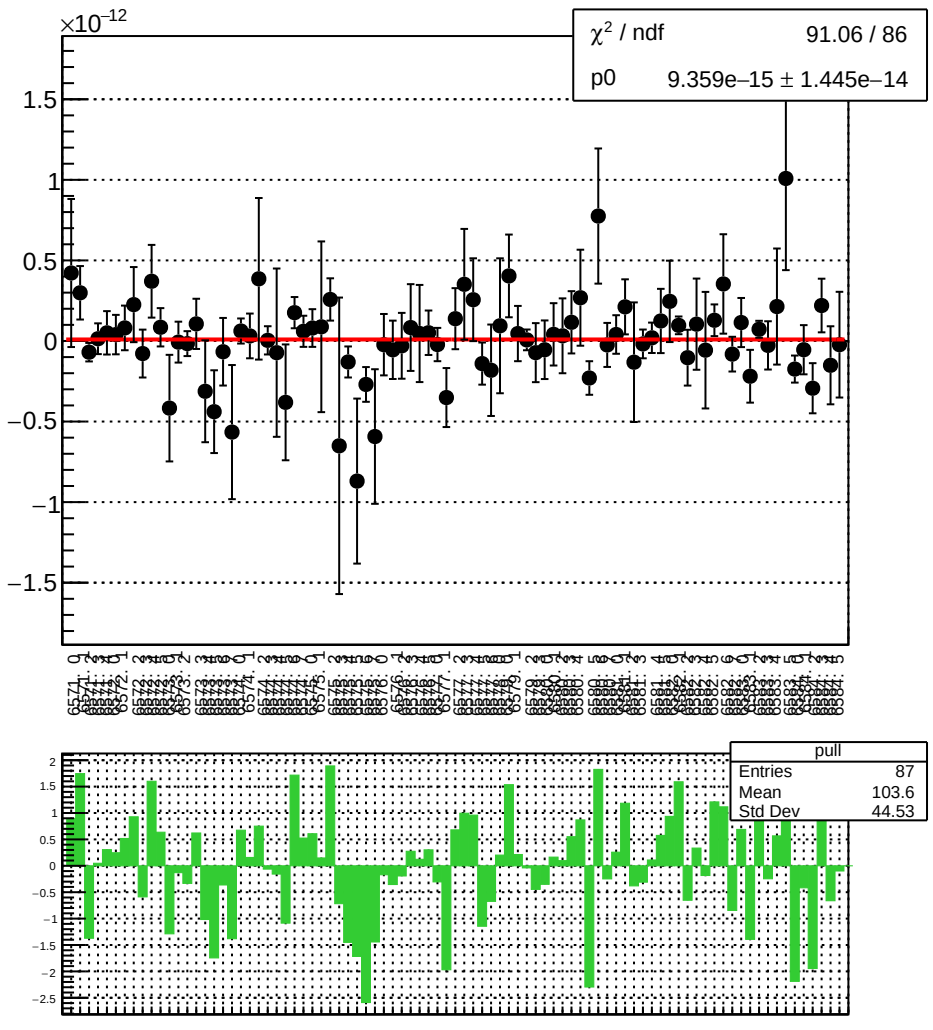

pull1D
Entries 87
Mean 0.04701
Std Dev 1.046

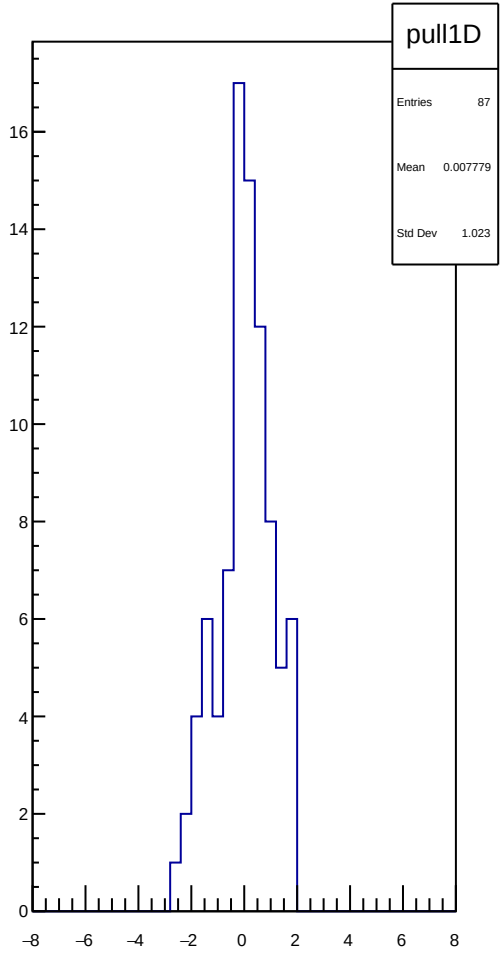

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.835e+05 / 86
p0 84.1 ± 0.06859
250
200
150
100
50

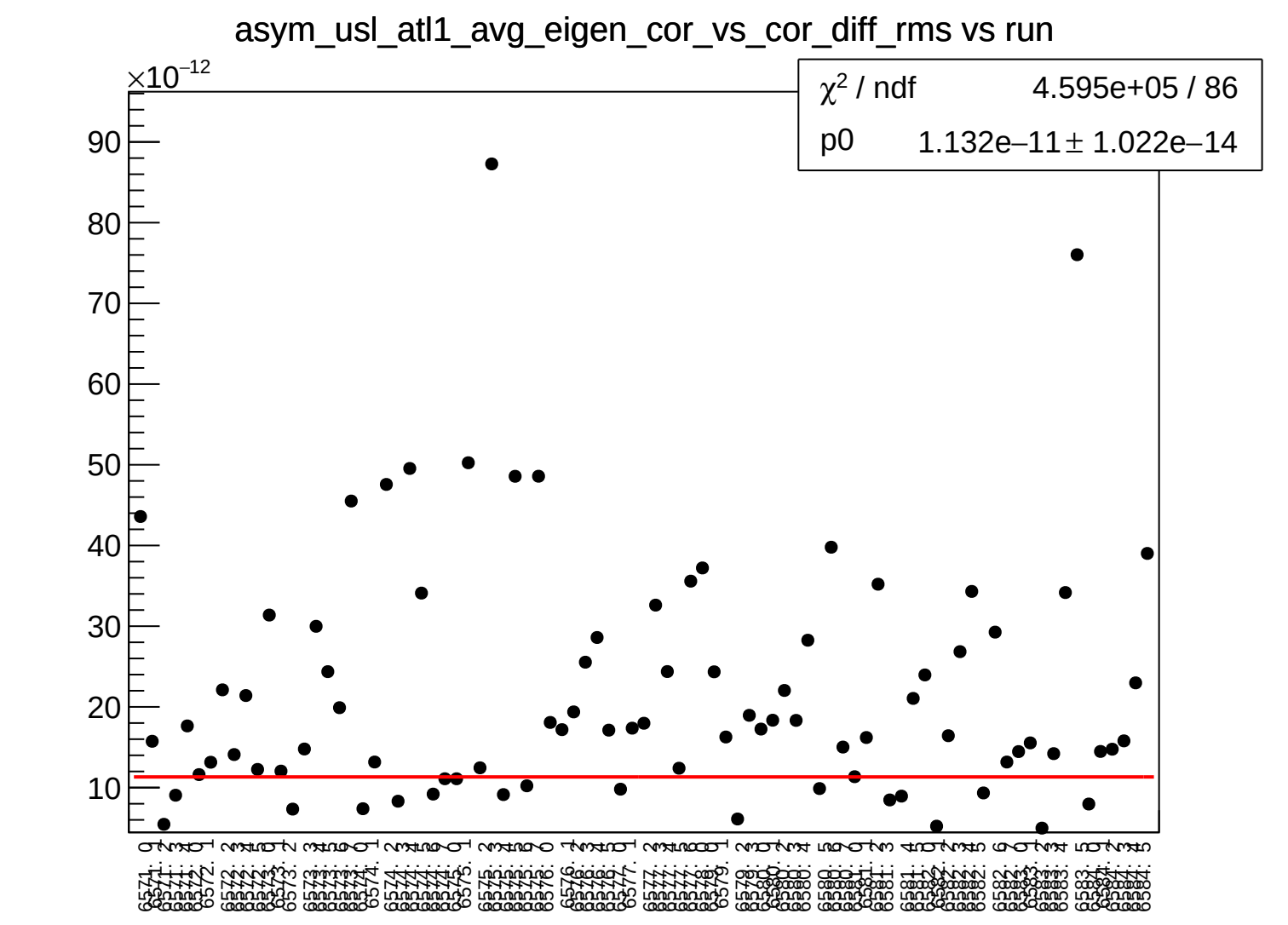

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.44 / 86
p0 −0.01652 ± 0.09701
pull
Entries 87
Mean 25.74
Std Dev 43.12

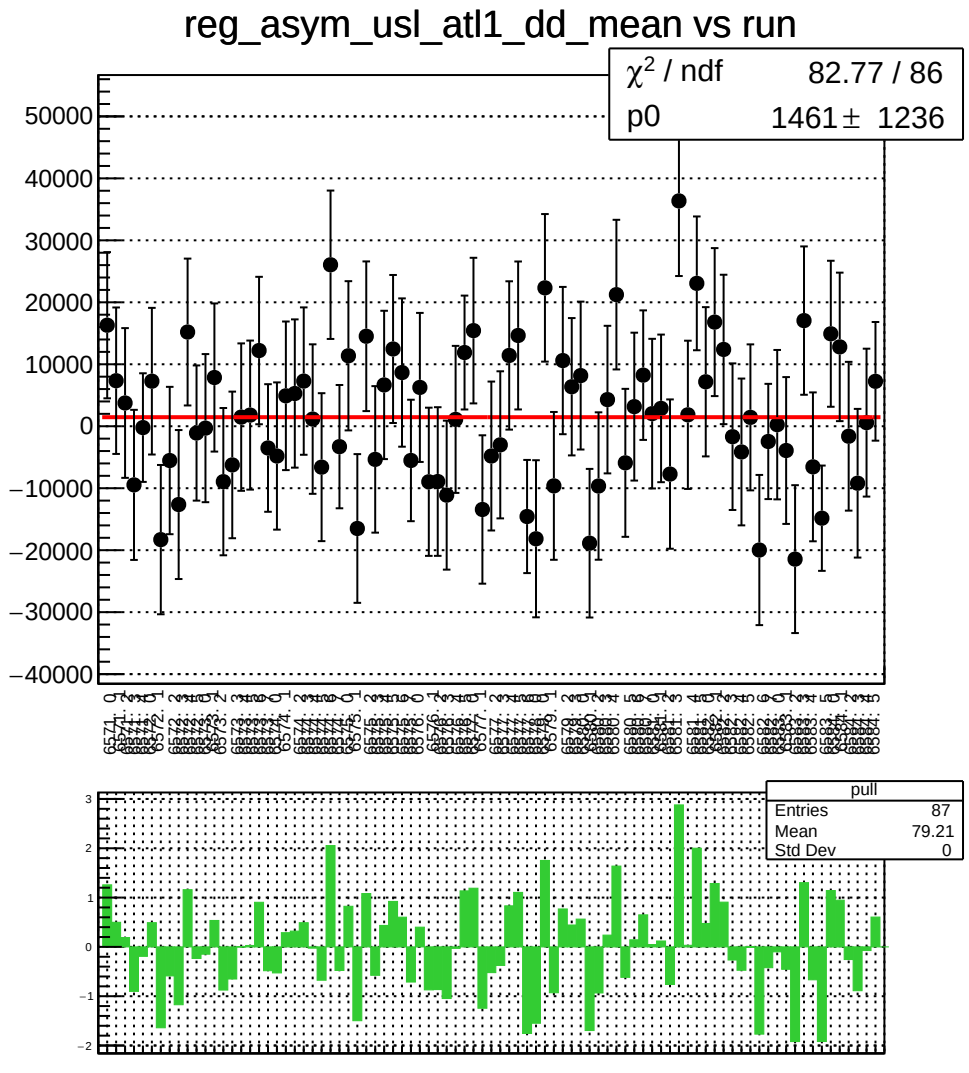

pull1D
Entries 87
Mean 0.04701
Std Dev 1.046

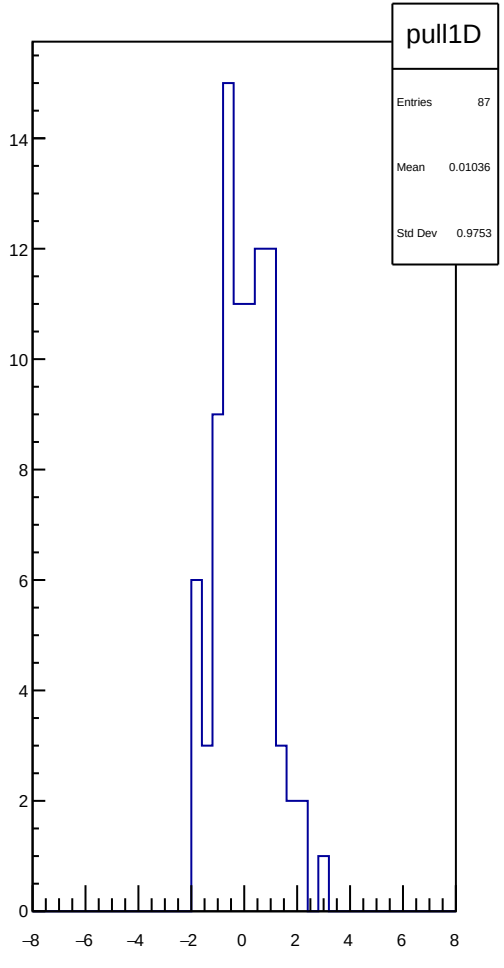

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.835e+05 / 86
p0 84.1 ± 0.06859
250
200
150
100
50

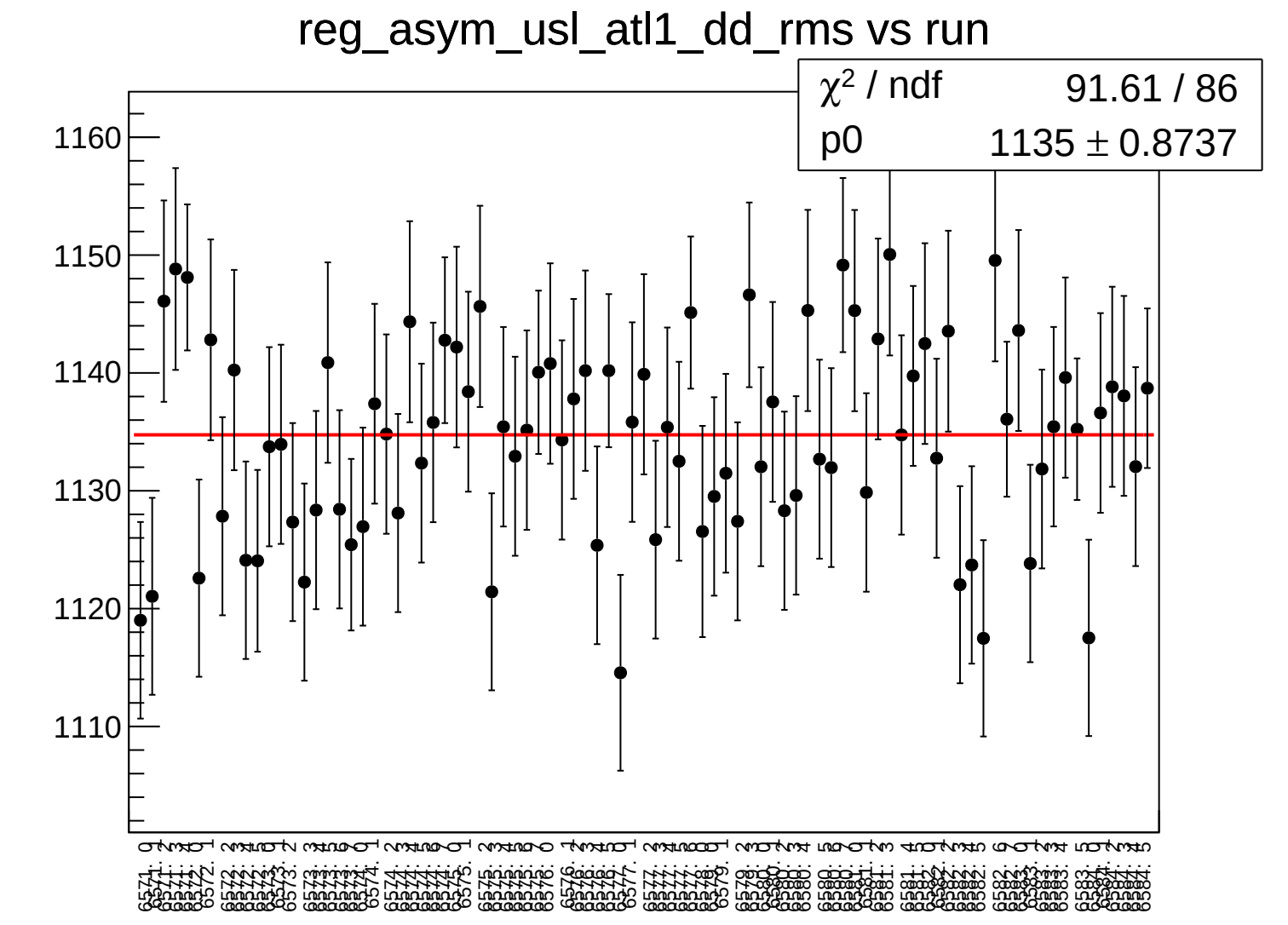

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.06 / 86
p0 9.359e−15 ± 1.445e−14
pull
Entries 87
Mean 103.6
Std Dev 44.53

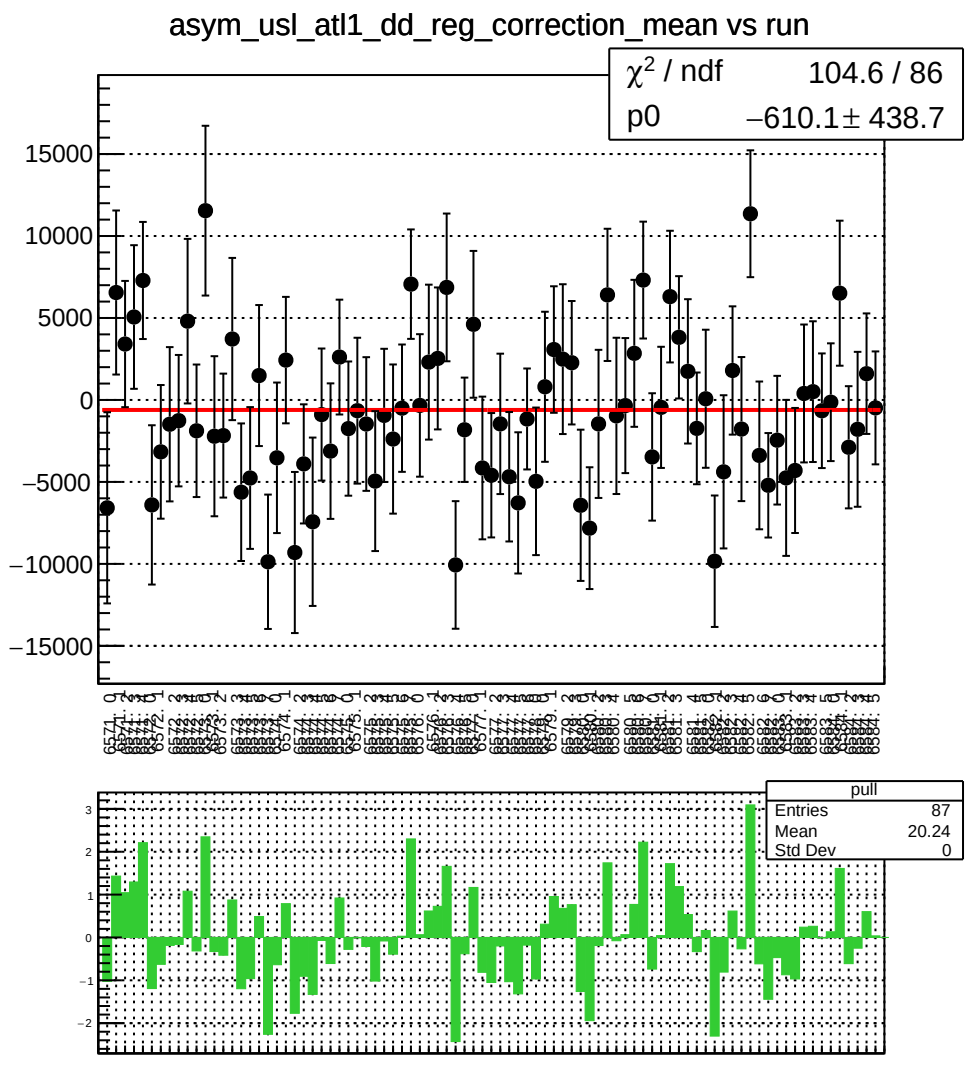

pull1D
Entries 87
Mean 0.007779
Std Dev 1.023

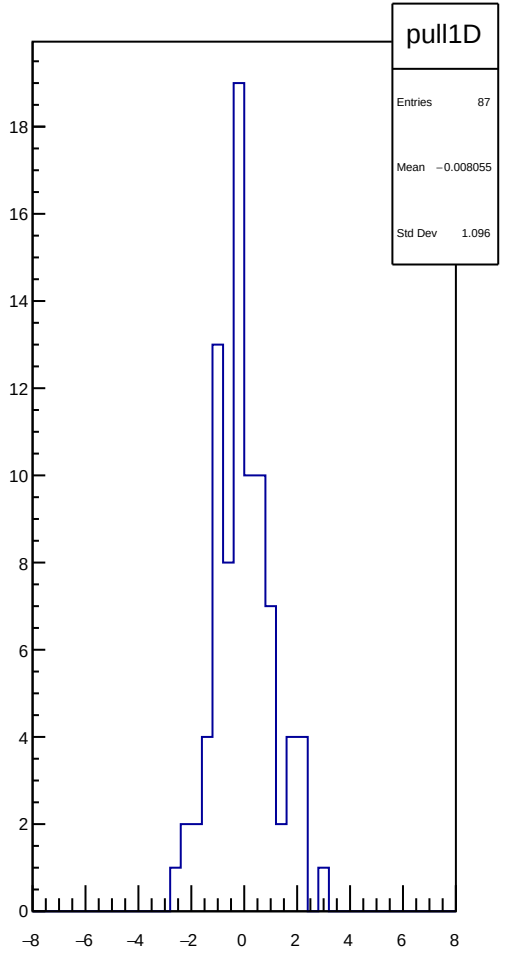

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.595e+05 / 86
p0 1.132e−11 ± 1.022e−14
90
80
70
60
50
40
30
20
10

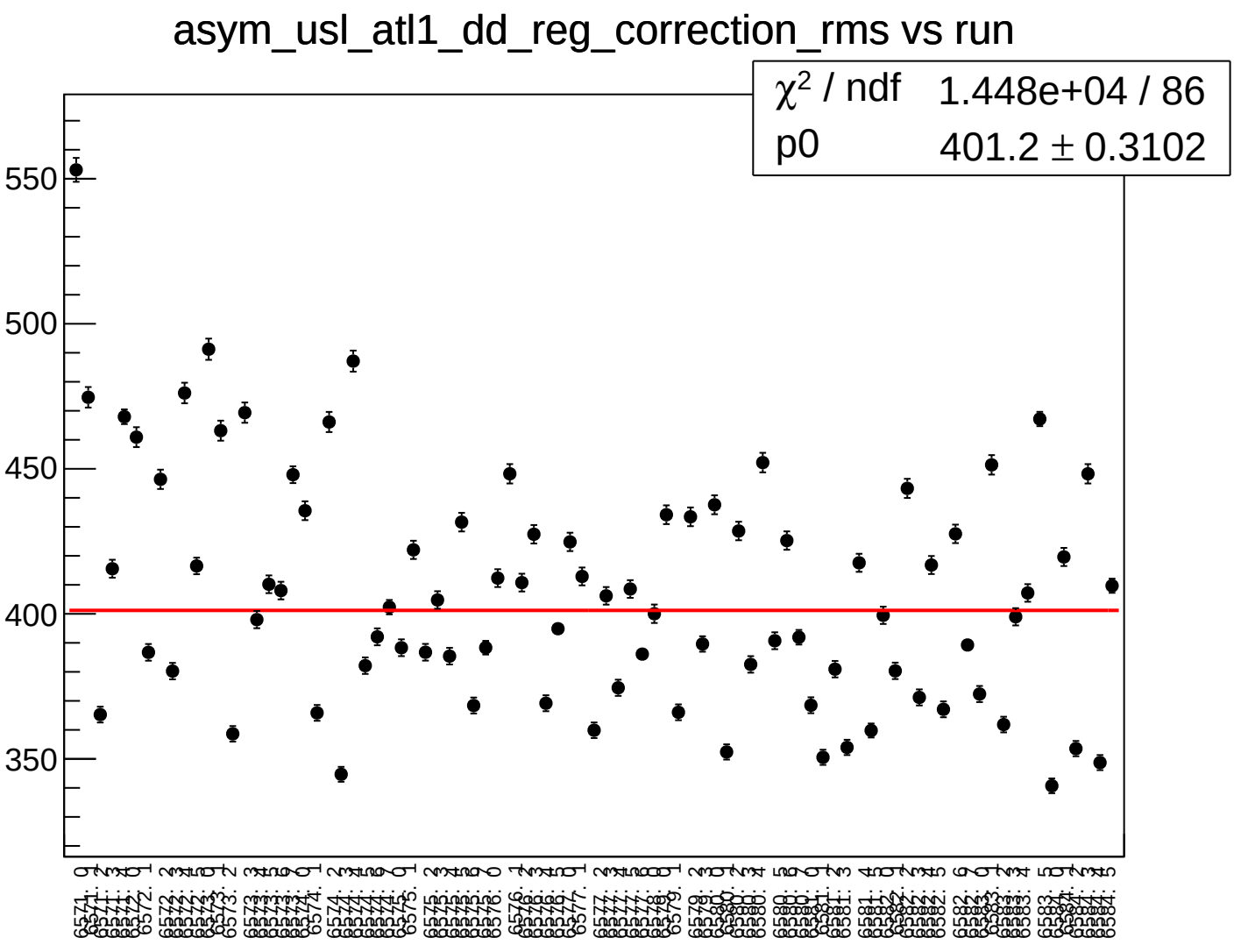

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.77 / 86
p0 1461 ± 1236
pull
Entries 87
Mean 79.21
Std Dev 0

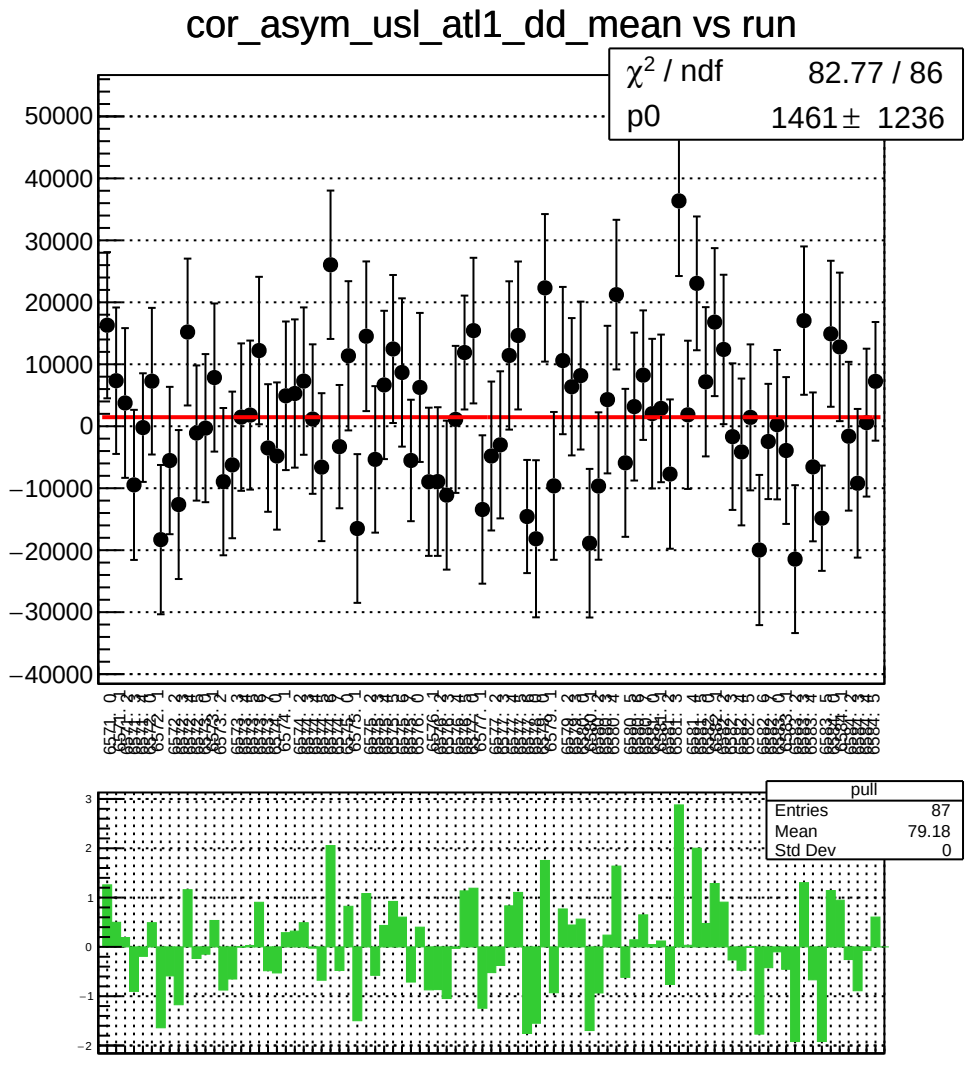

pull1D
Entries 87
Mean 0.01036
Std Dev 0.9753

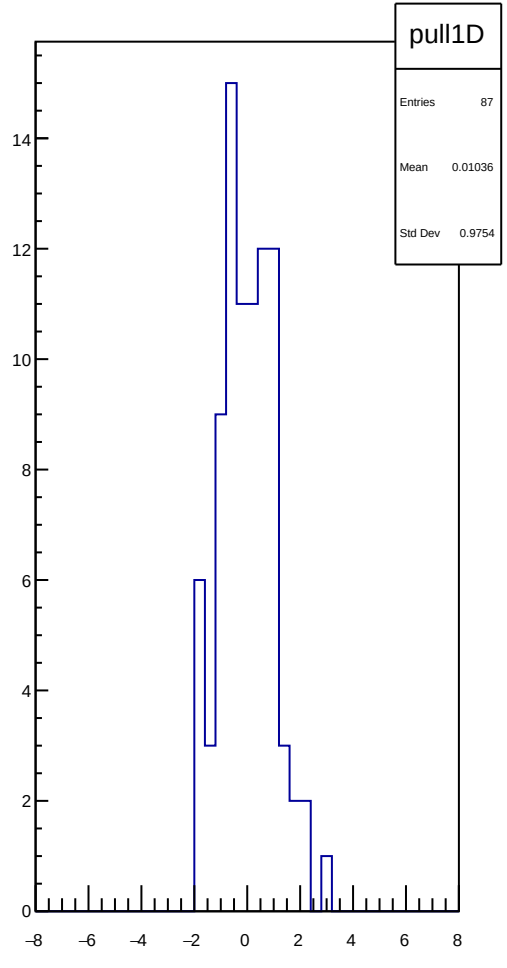

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 91.61 / 86
p0 1135 ± 0.8737
1160
1150
1140
1130
1120
1110

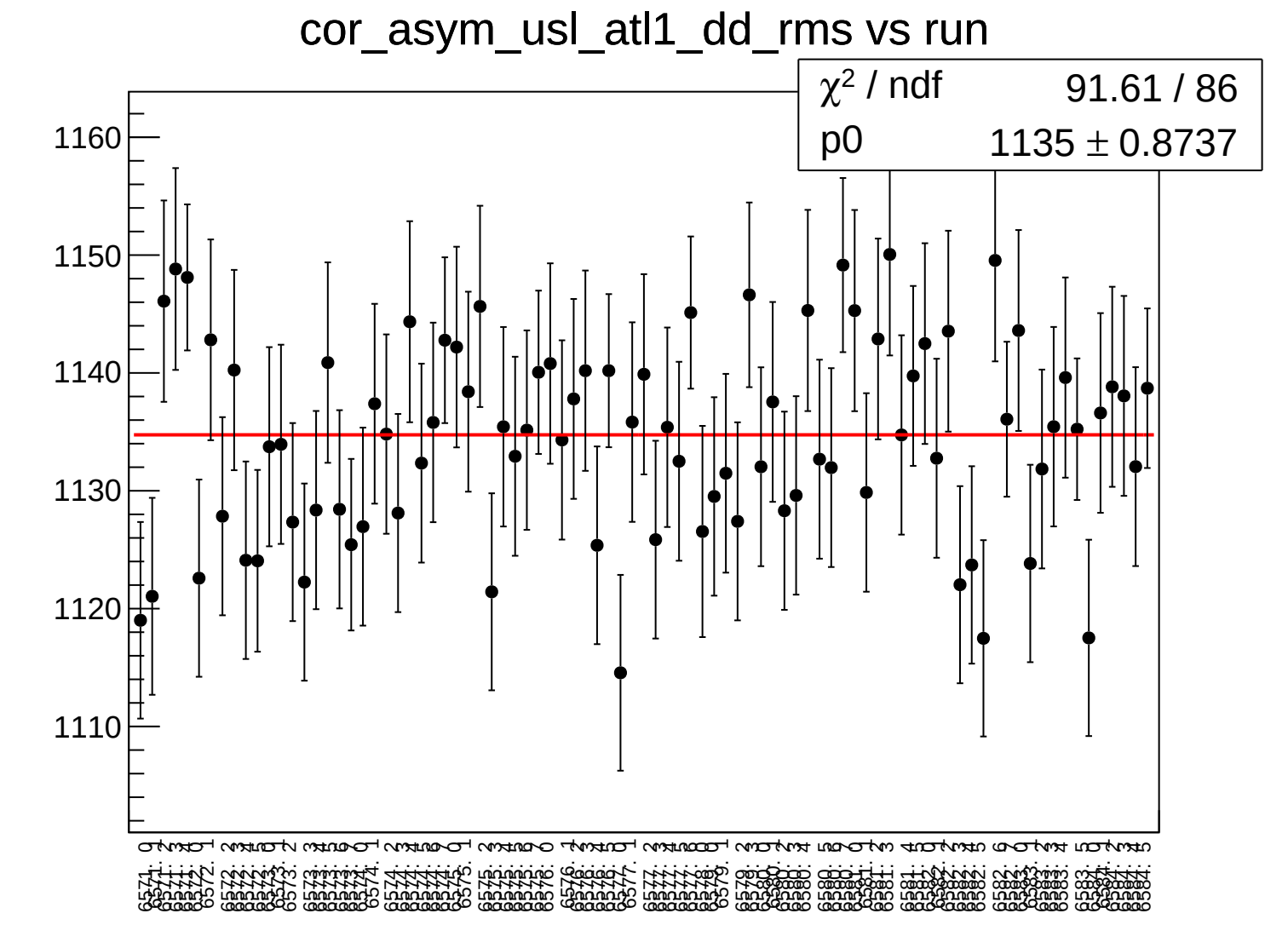

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 104.6 / 86
p0 −610.1 ± 438.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 20.24
Std Dev 0
3
2
1
0
−1
−2

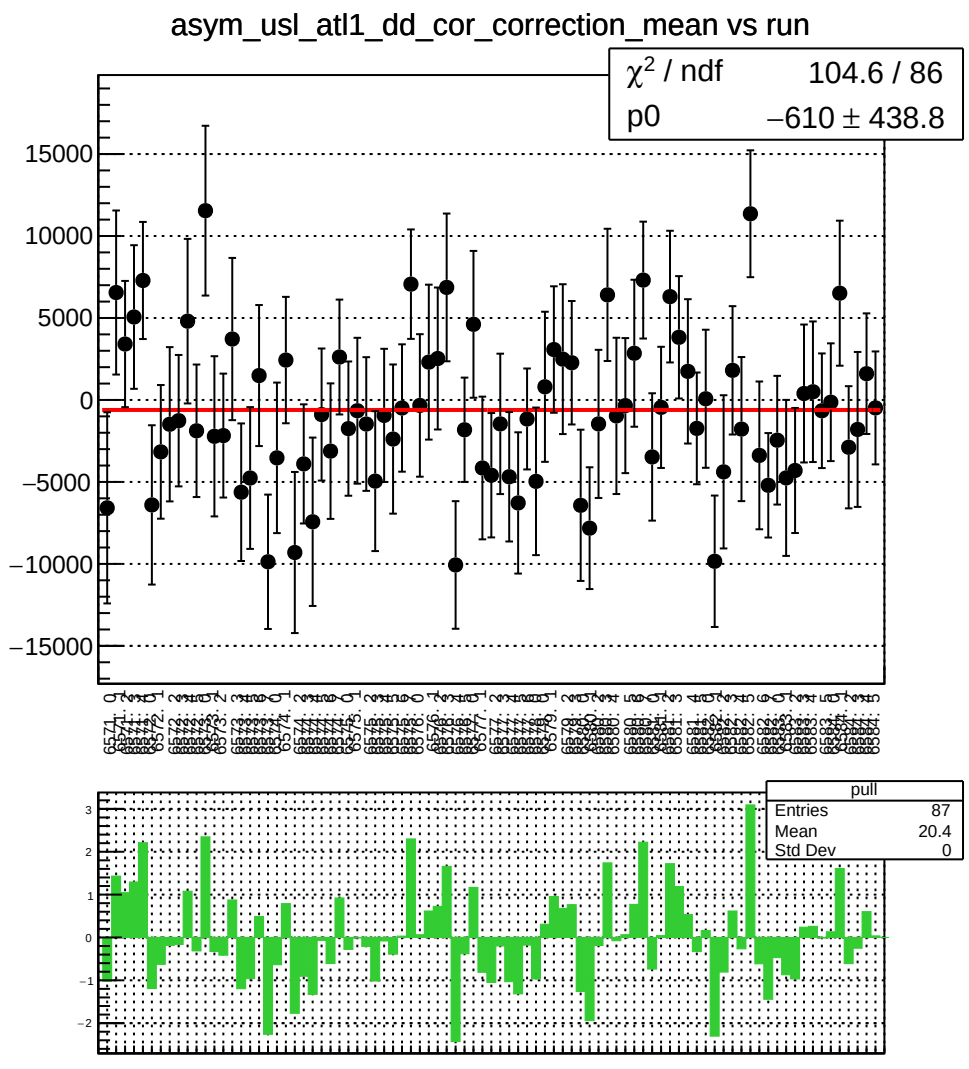

pull1D
Entries 87
Mean −0.008055
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

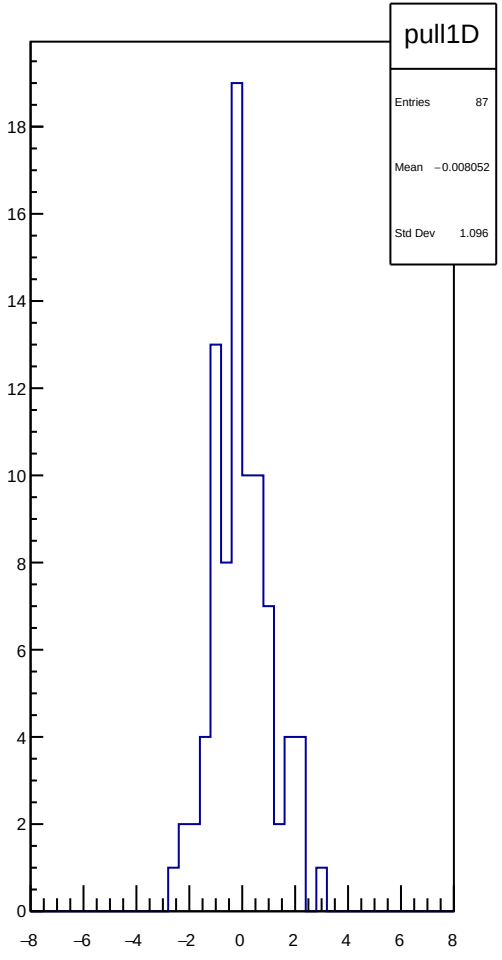

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.448e+04 / 86
p0 401.2 ± 0.3102
550
500
450
400
350

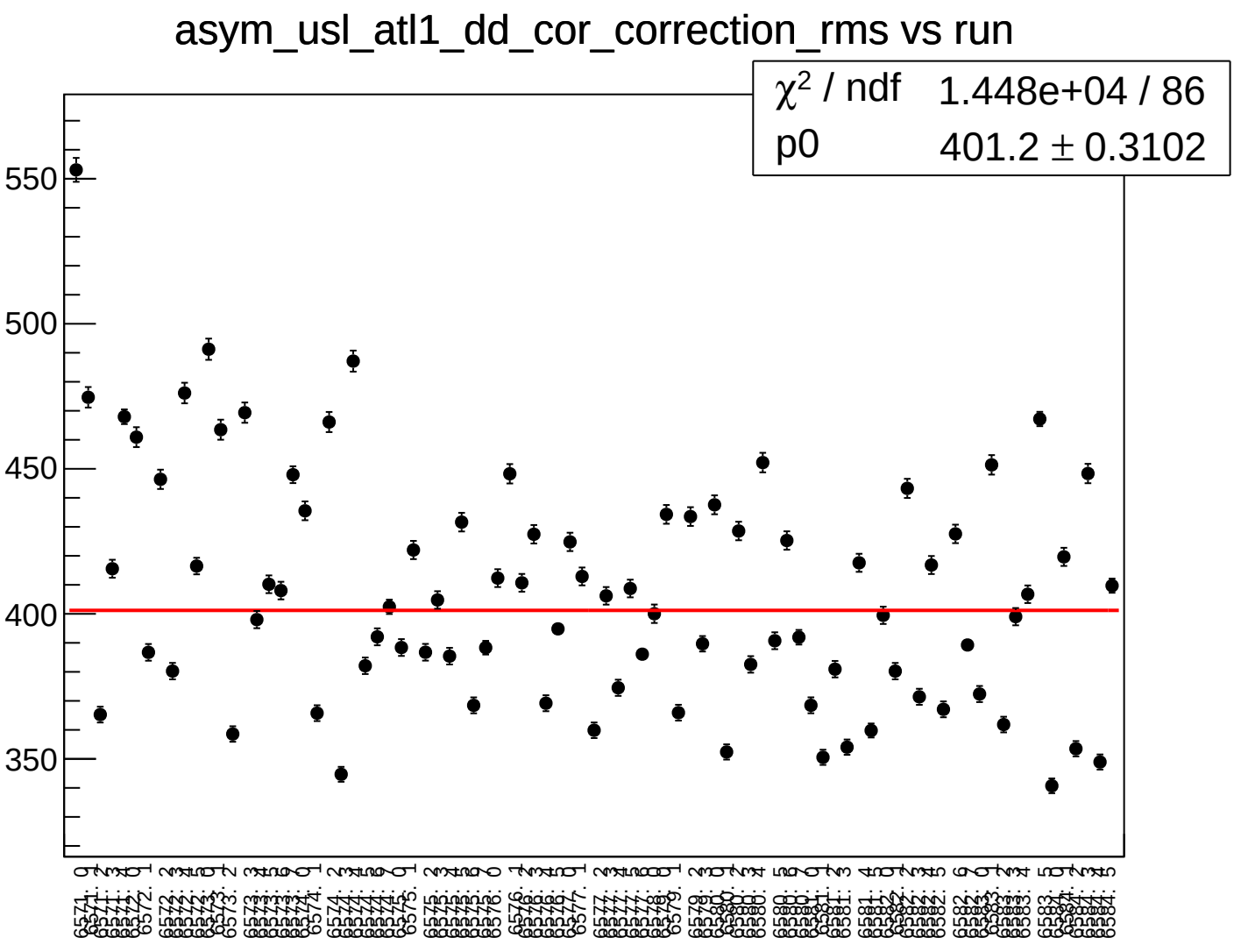

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.77 / 86
p0 1461 ± 1236
pull
Entries 87
Mean 79.18
Std Dev 0

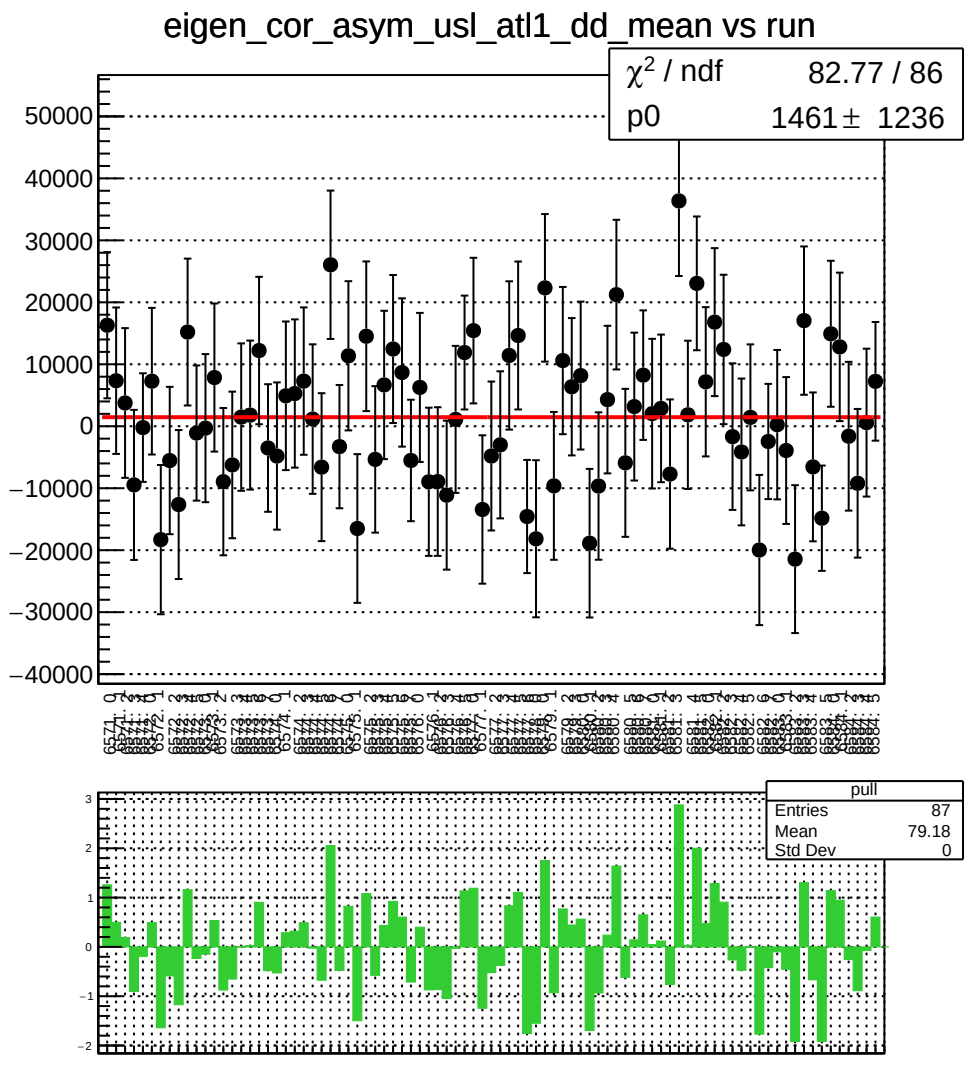

pull1D
Entries 87
Mean 0.01036
Std Dev 0.9754

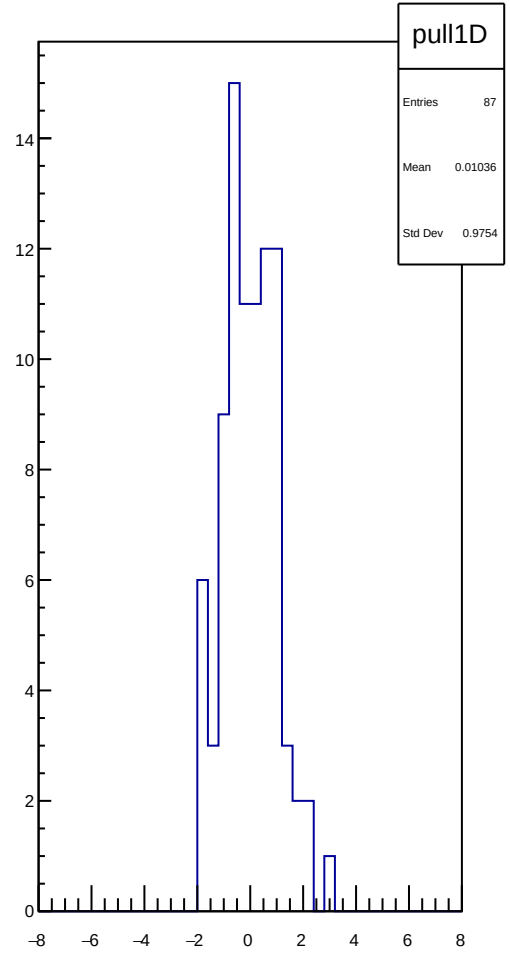

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 91.61 / 86
p0 1135 ± 0.8737
1160
1150
1140
1130
1120
1110

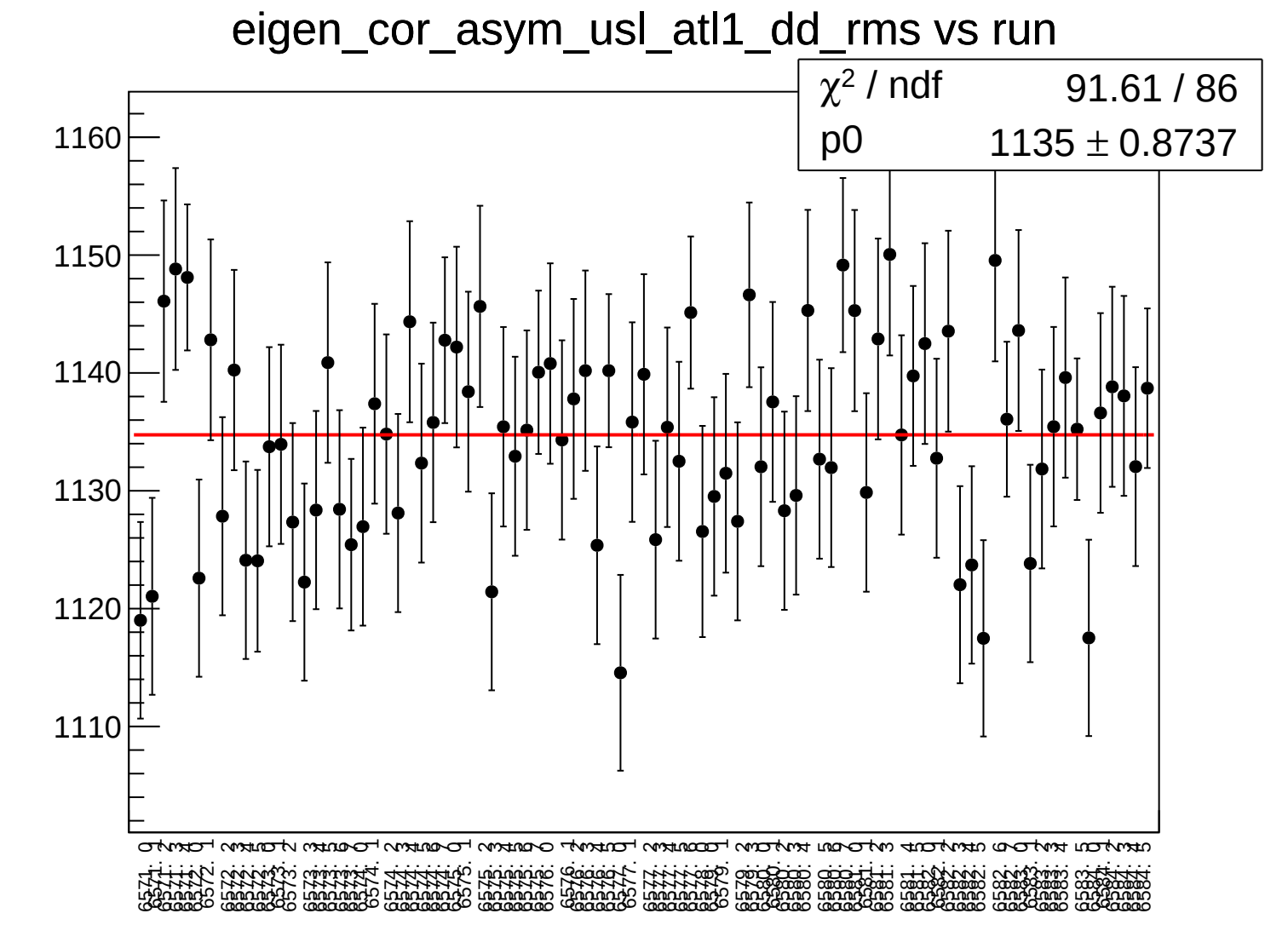

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 104.6 / 86
p0 −610 ± 438.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 20.4
Std Dev 0
3
2
1
0
−1
−2

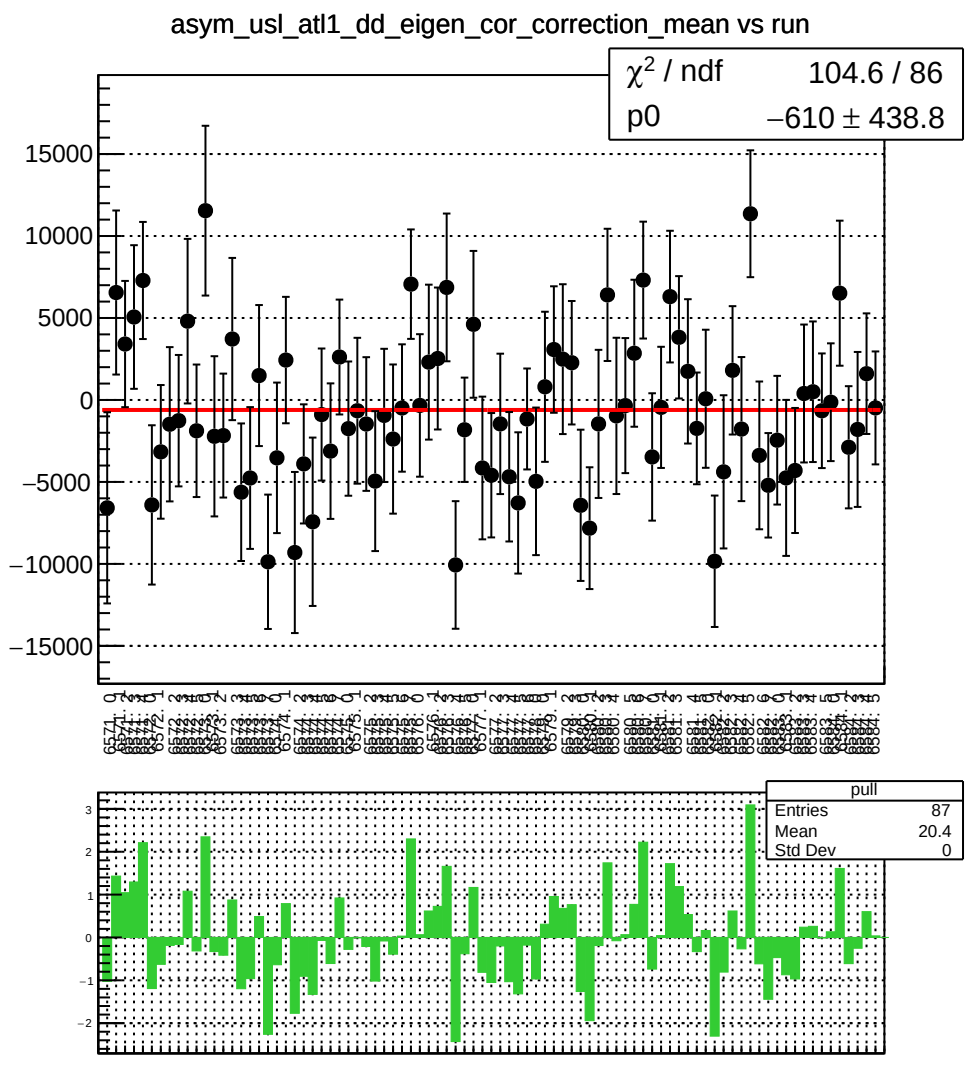

pull1D
Entries 87
Mean −0.008052
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

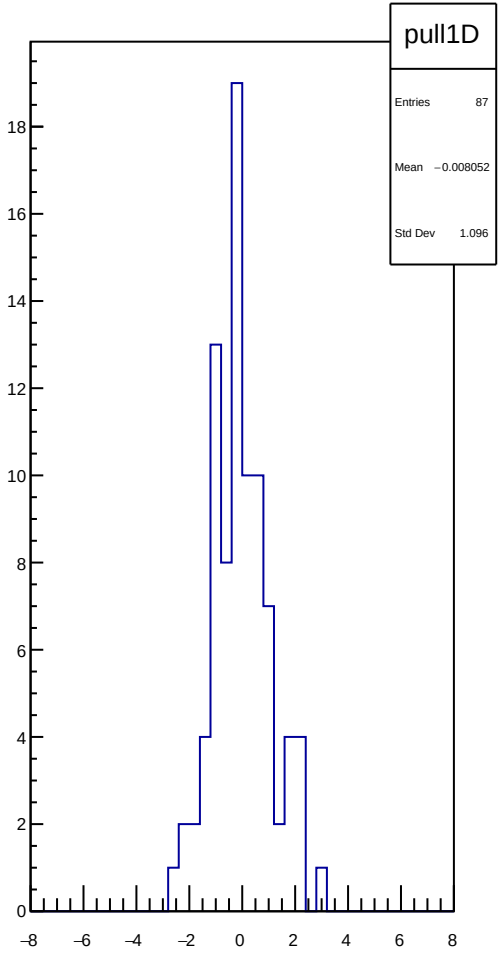

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.448e+04 / 86
p0 401.2 ± 0.3102
550
500
450
400
350

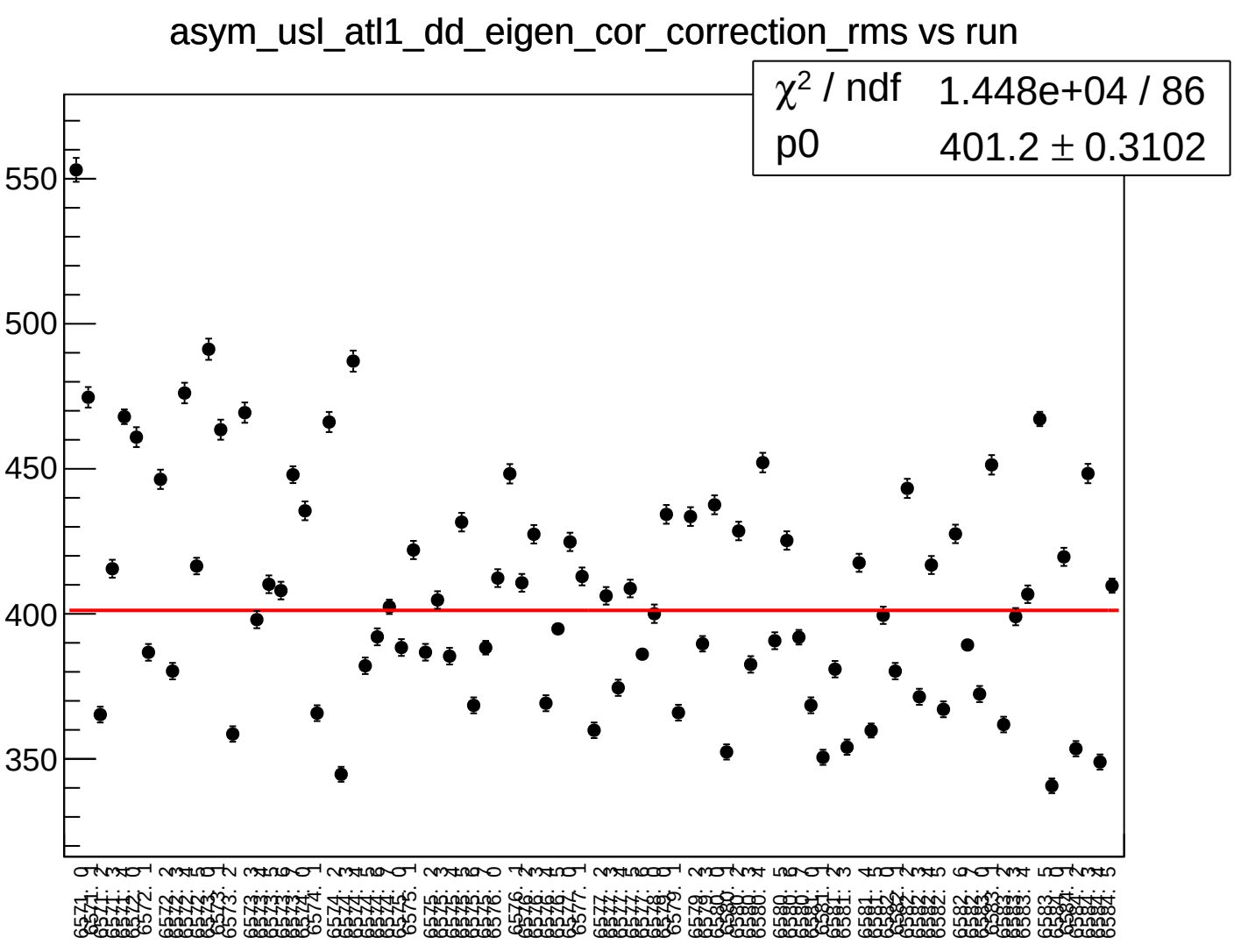

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.77 / 86
p0 1461 ± 1236
pull
Entries 87
Mean 79.18
Std Dev 0

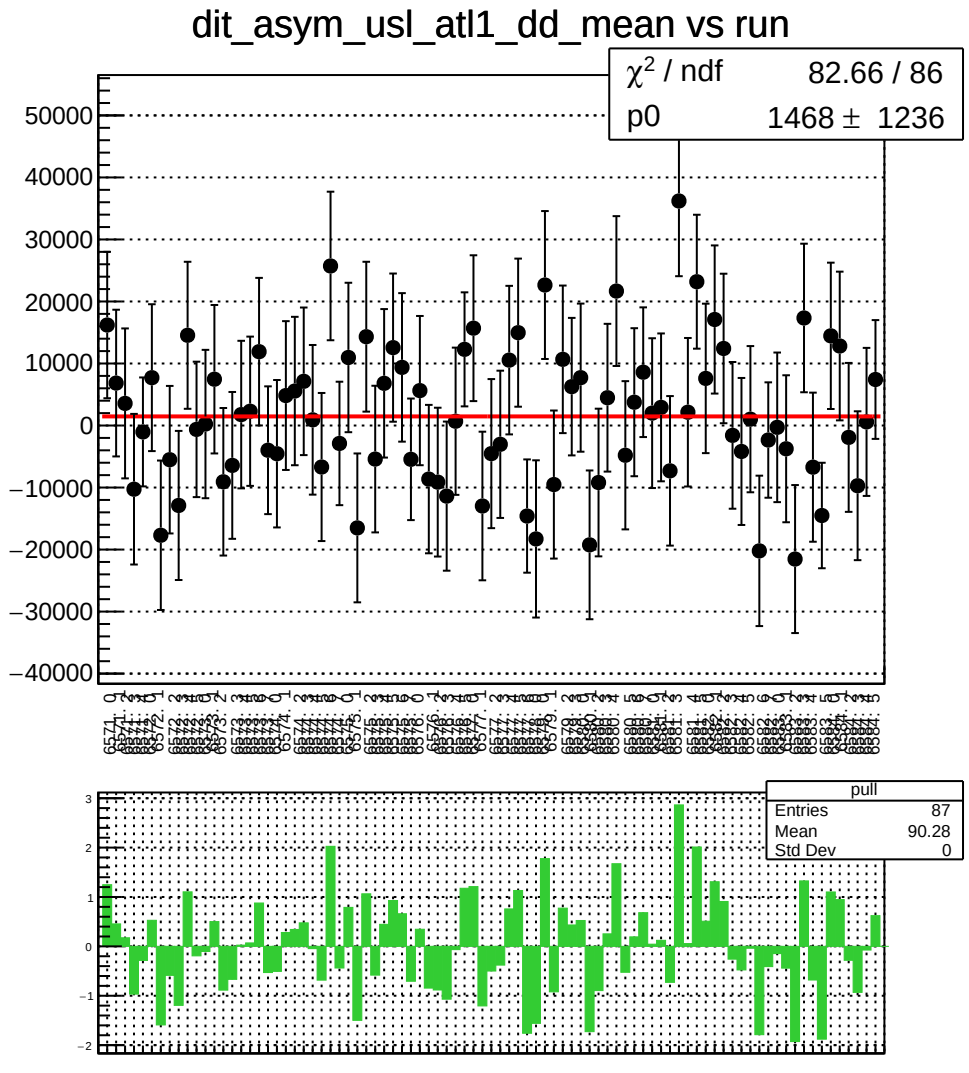

pull1D
Entries 87
Mean 0.01036
Std Dev 0.9754

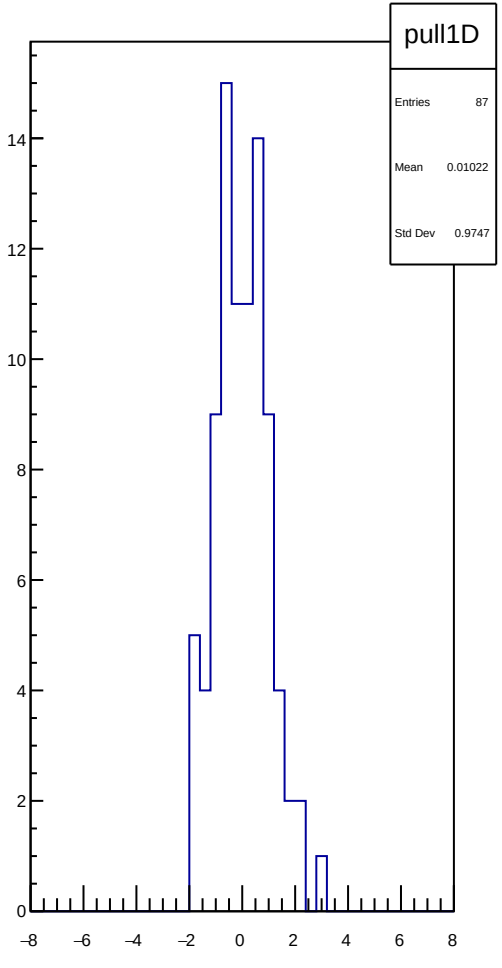

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 91.61 / 86
p0 1135 ± 0.8737
1160
1150
1140
1130
1120
1110

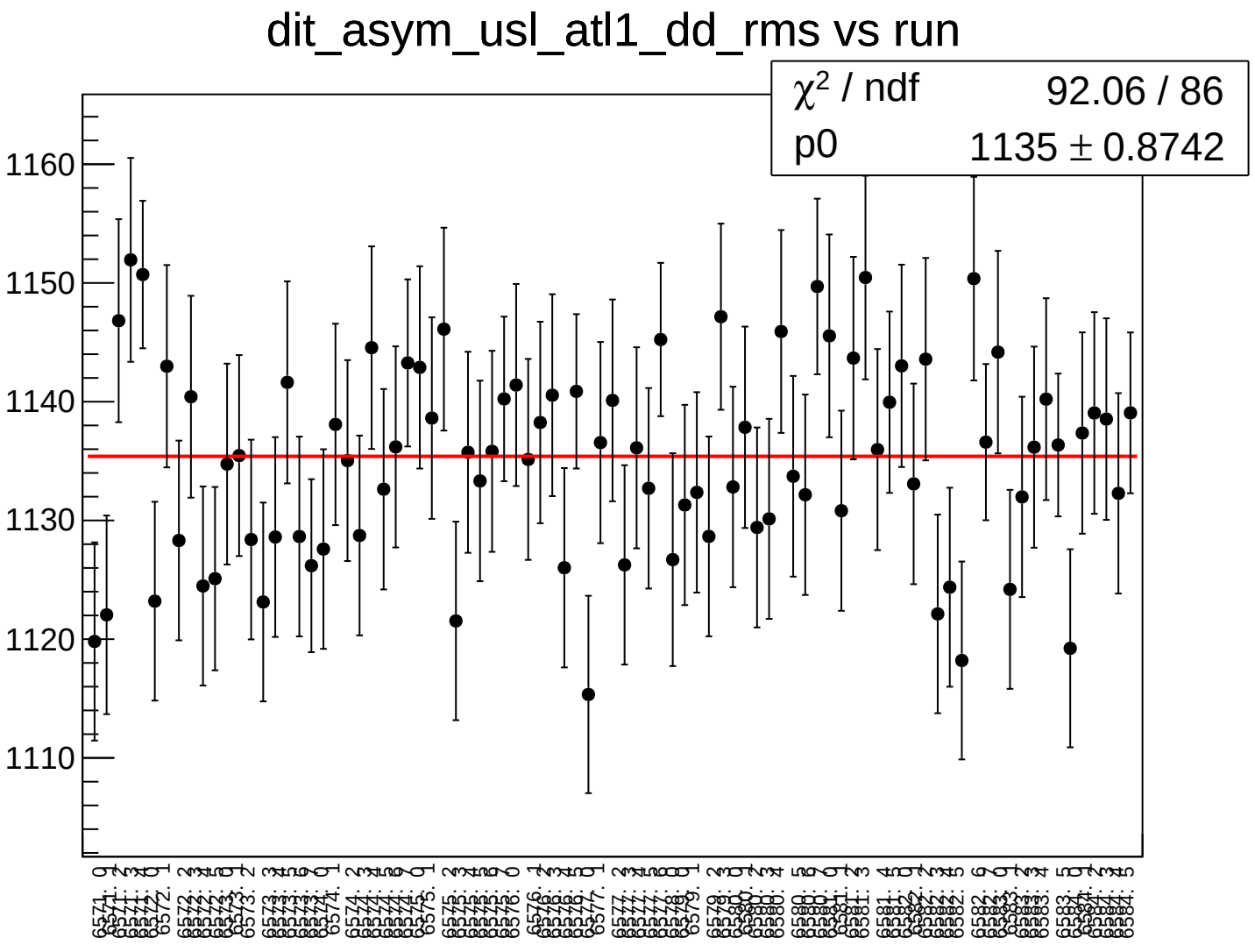

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 104.6 / 86
p0 −610 ± 438.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 20.4
Std Dev 0
3
2
1
0
−1
−2

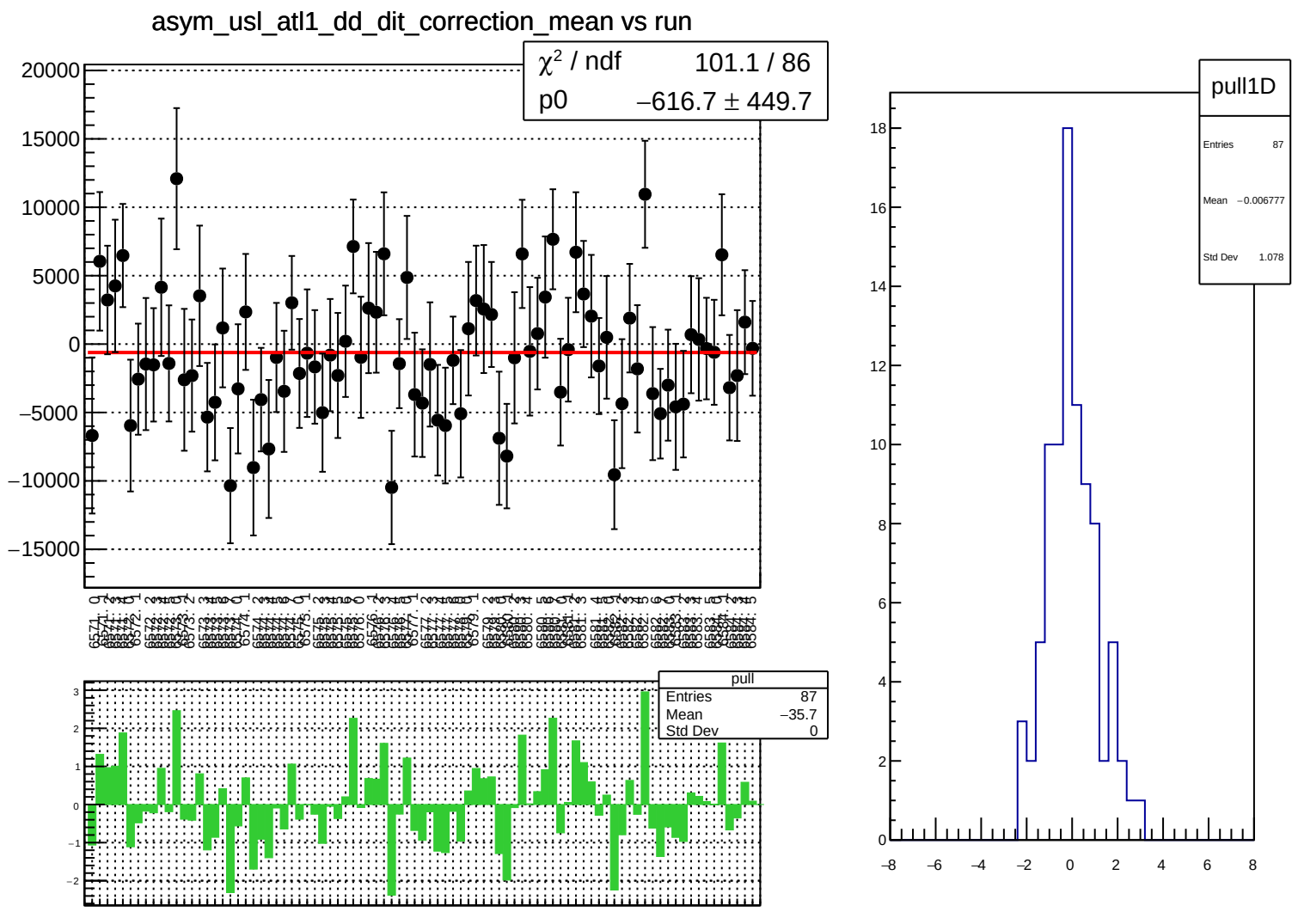

pull1D
Entries 87
Mean −0.008052
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

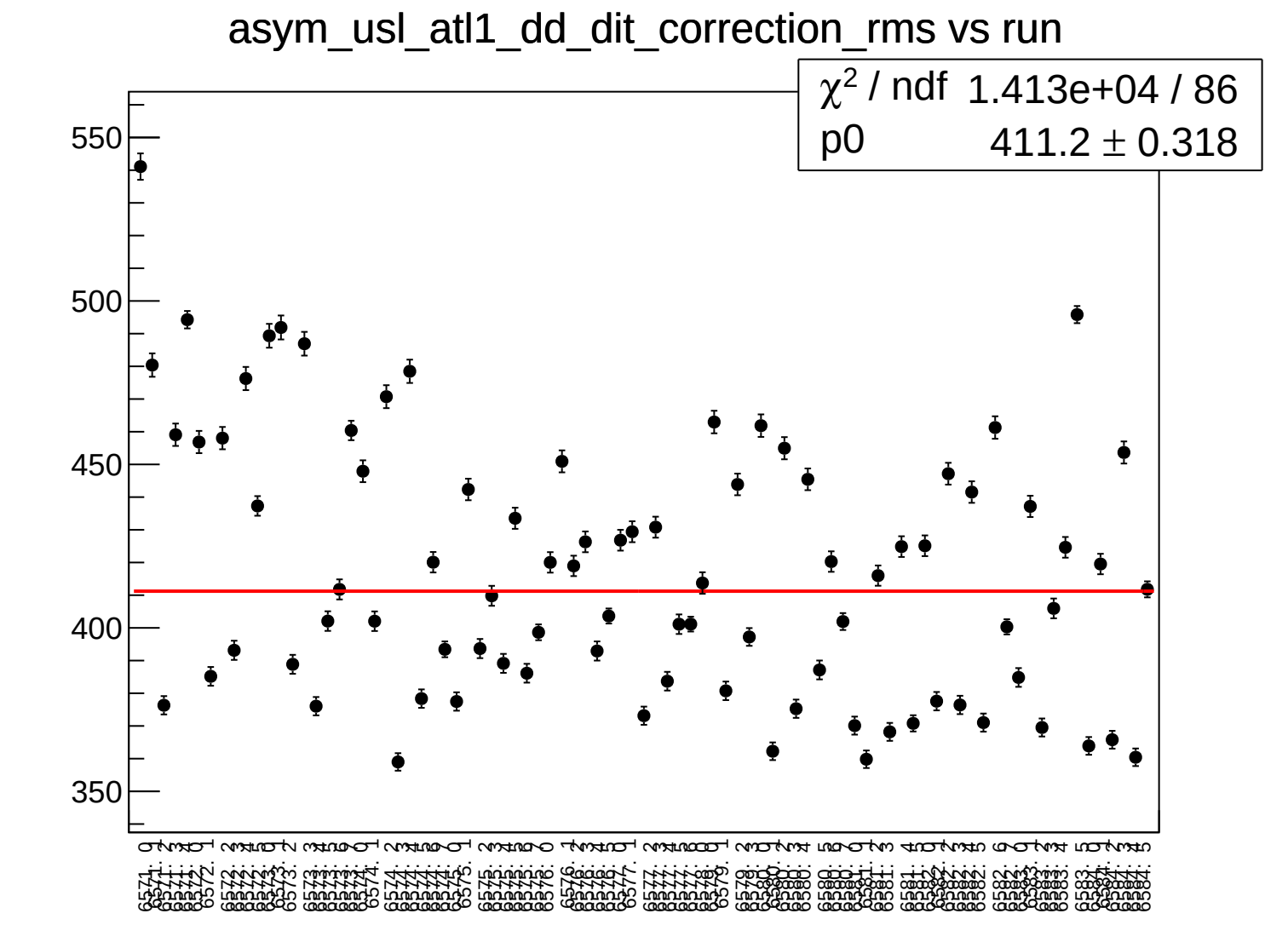

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.448e+04 / 86
p0 401.2 ± 0.3102
550
500
450
400
350

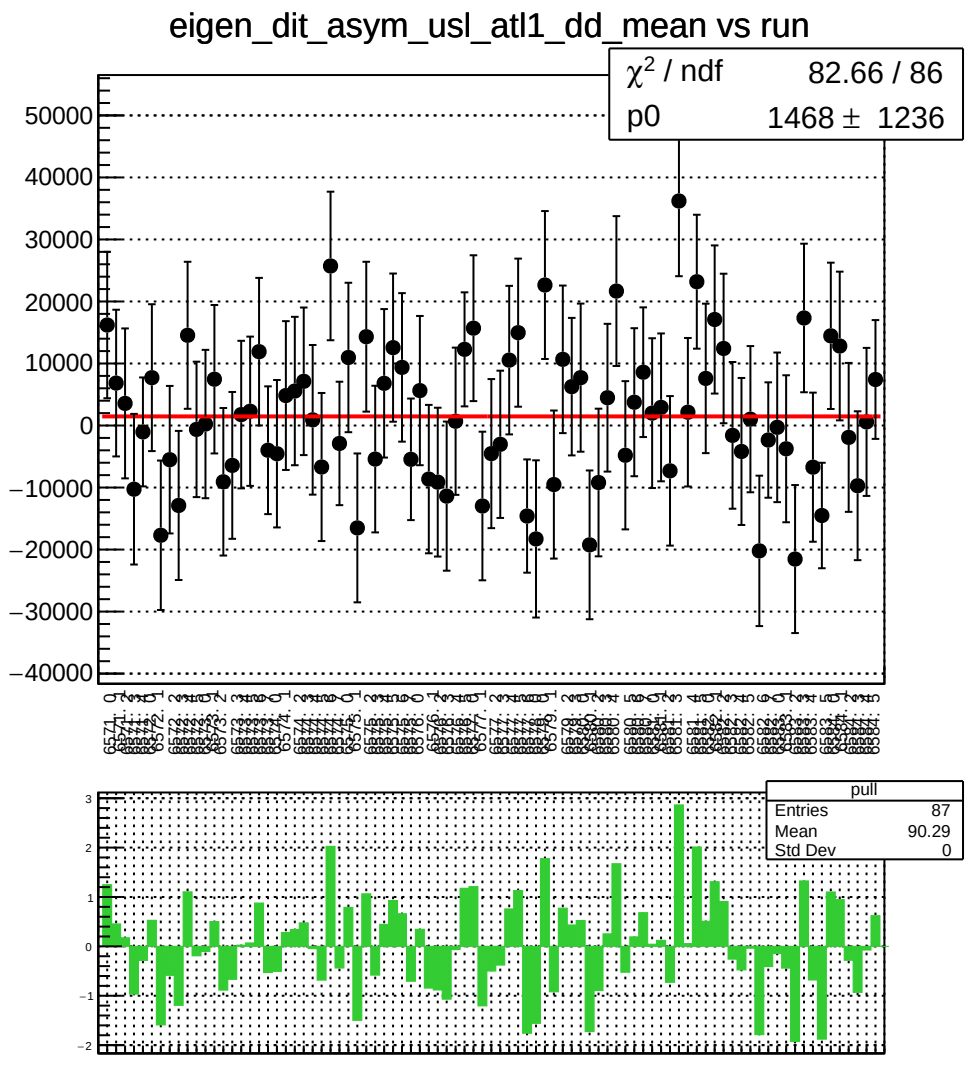

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.66 / 86
p0 1468 ± 1236
pull
Entries 87
Mean 90.28
Std Dev 0

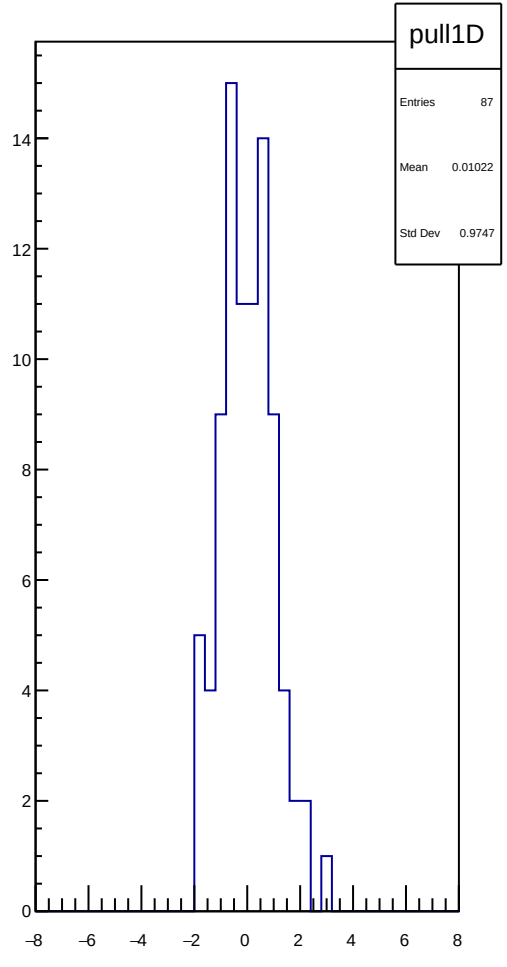

pull1D
Entries 87
Mean 0.01022
Std Dev 0.9747

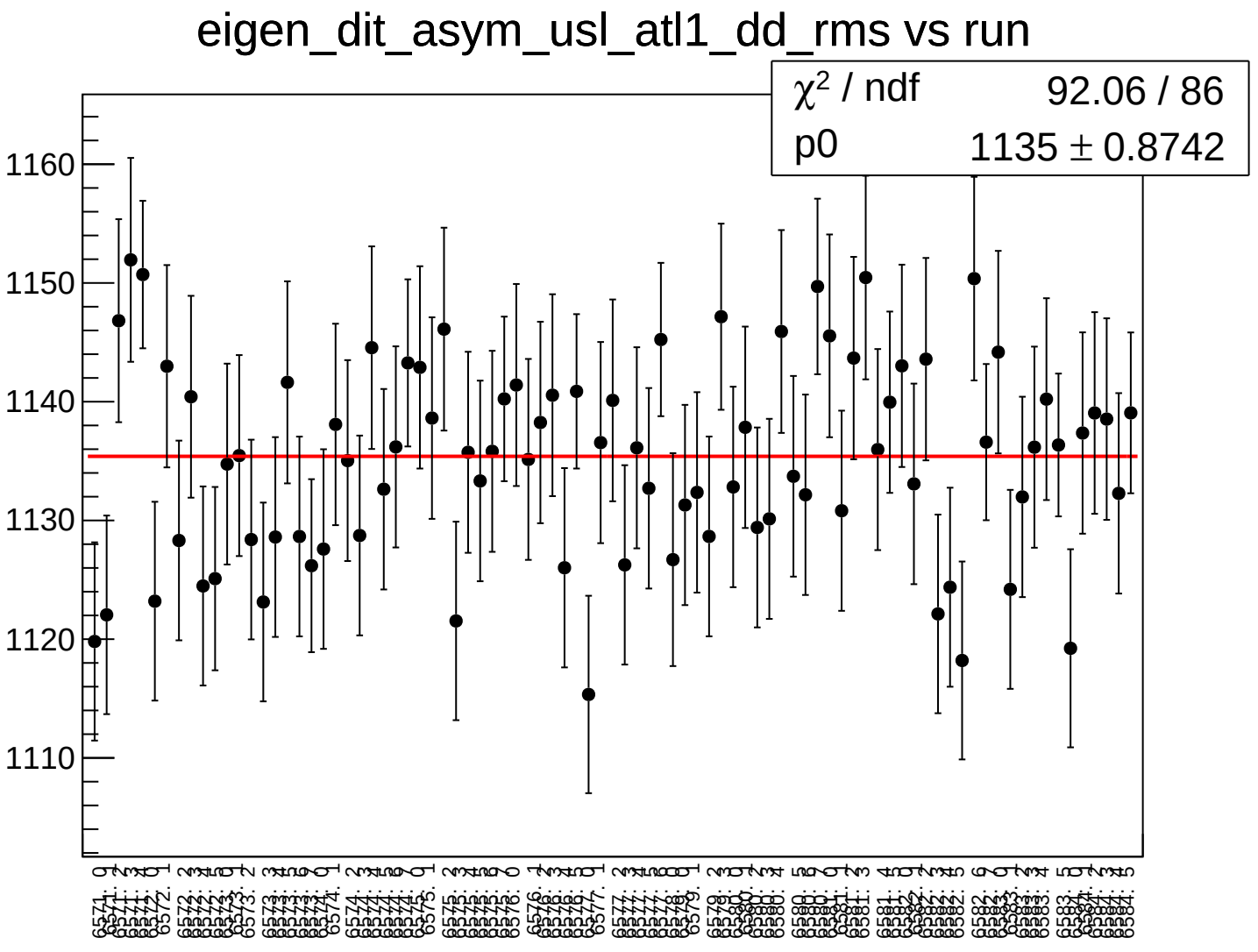

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 92.06 / 86
p0 1135 ± 0.8742
1160
1150
1140
1130
1120
1110

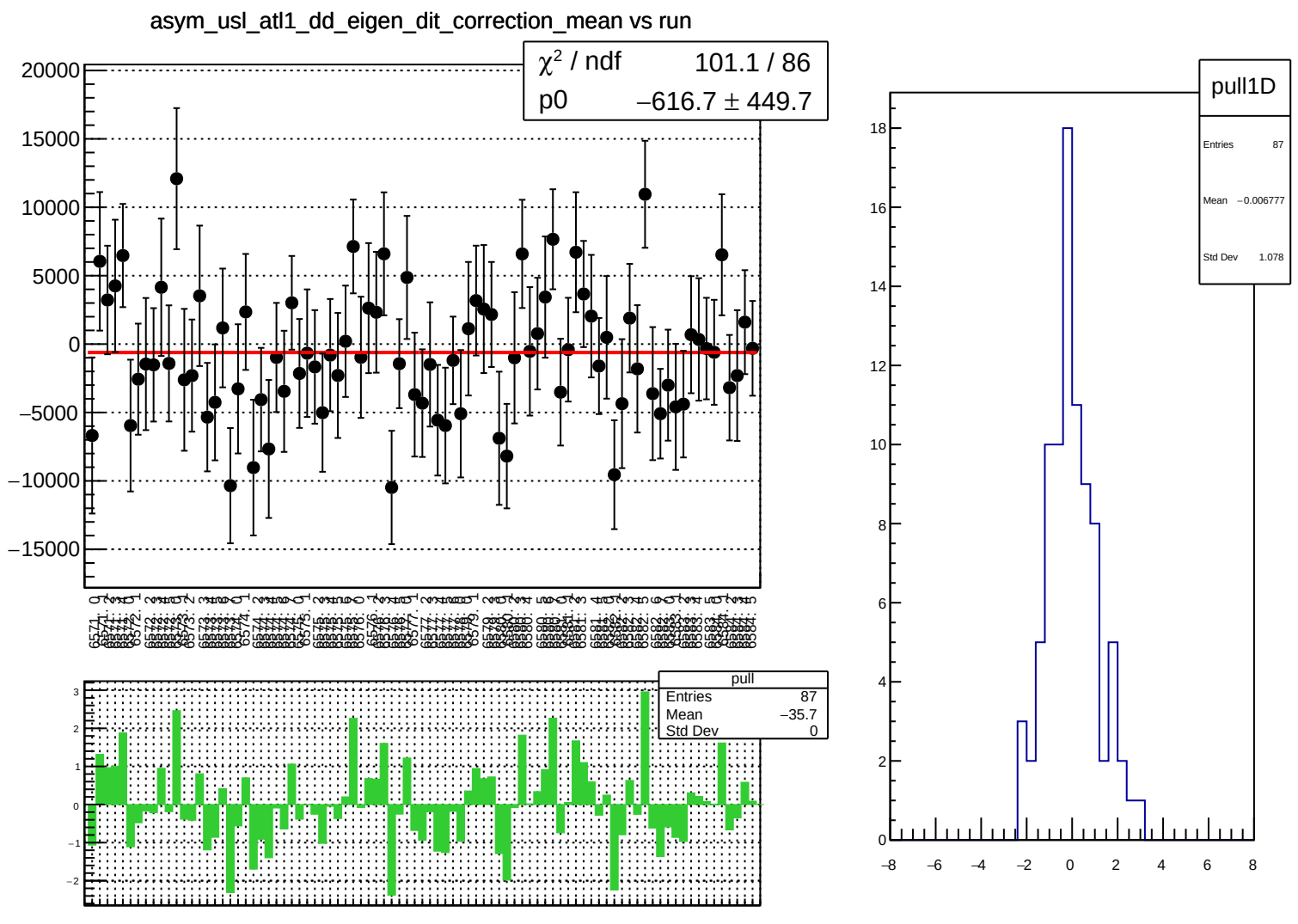

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 101.1 / 86
p0 −616.7 ± 449.7
pull
Entries 87
Mean −35.7
Std Dev 0
pull1D
Entries 87
Mean −0.006777
Std Dev 1.078

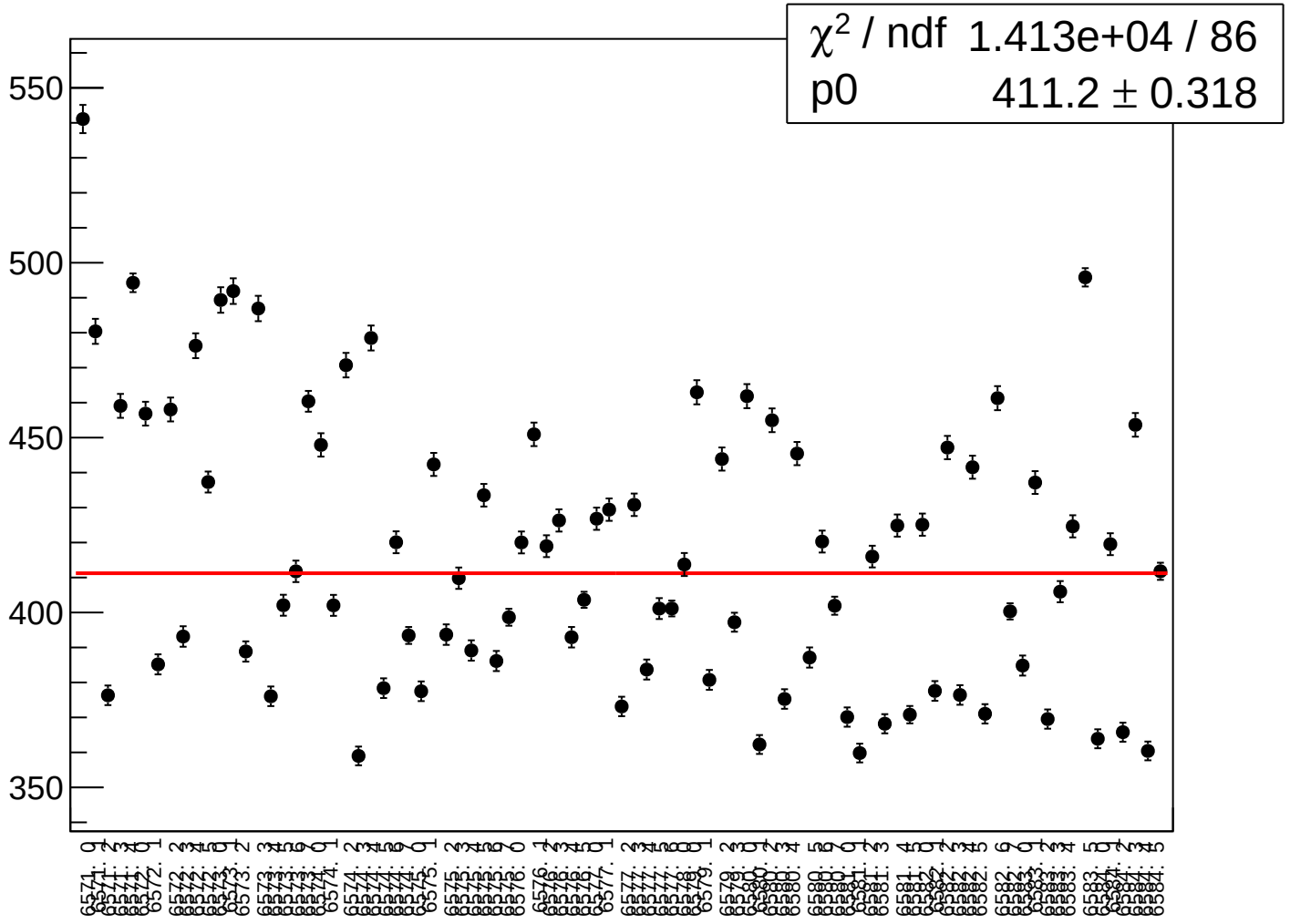

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.413e+04 / 86
p0 411.2 ± 0.318
550
500
450
400
350

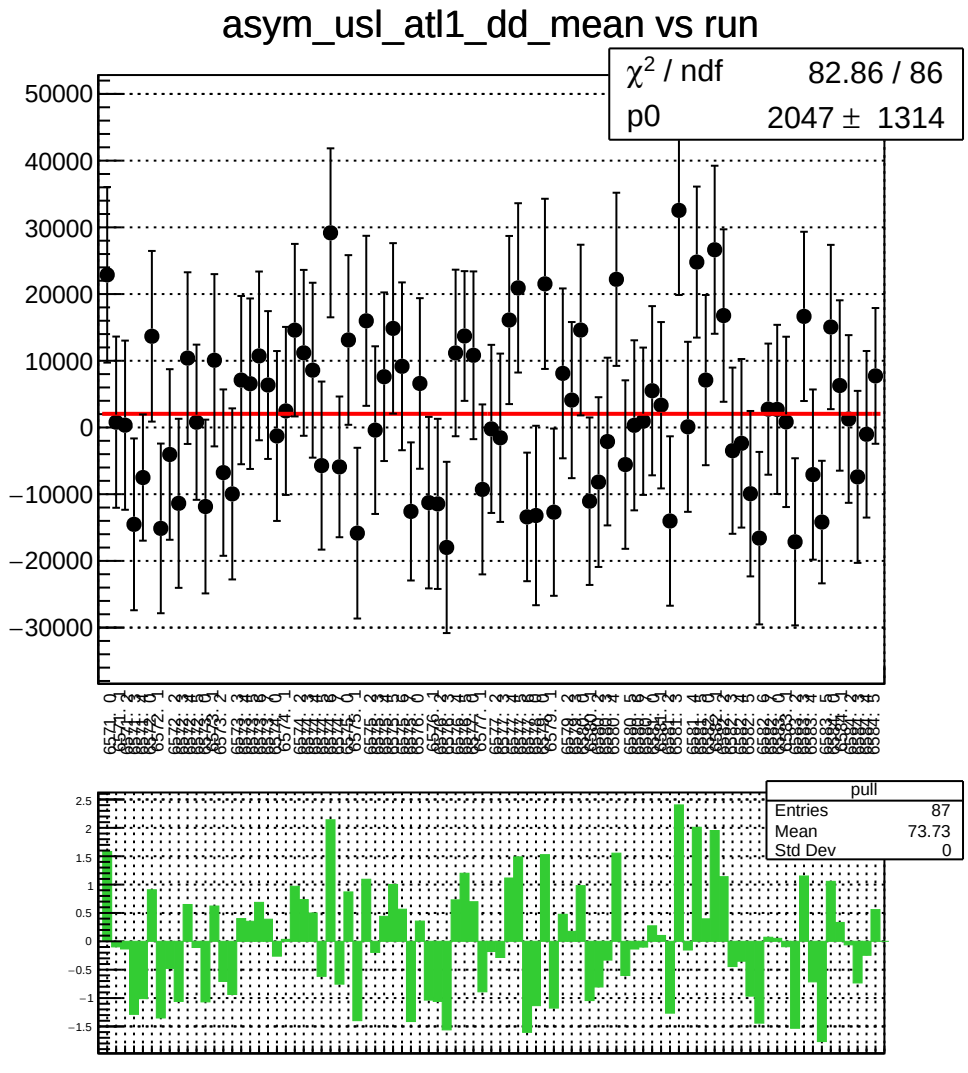

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.66 / 86
p0 1468 ± 1236
pull
Entries 87
Mean 90.29
Std Dev 0

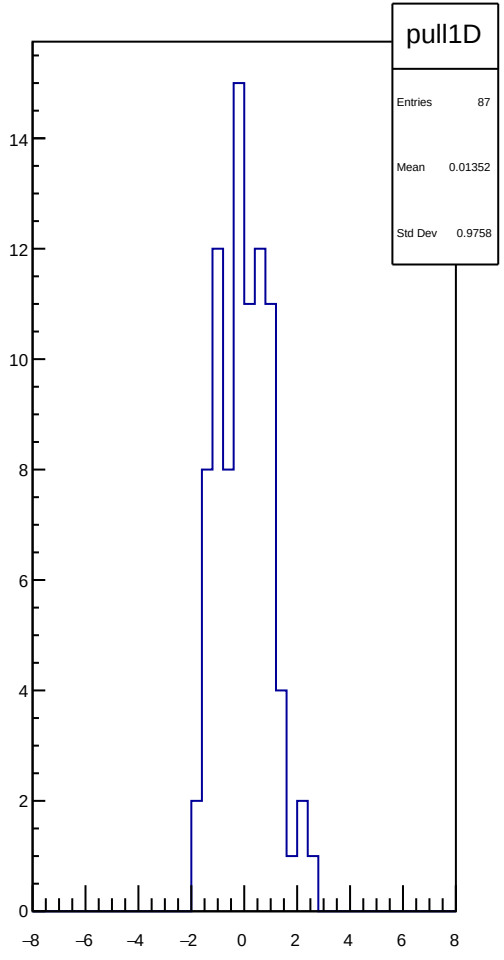

pull1D
Entries 87
Mean 0.01022
Std Dev 0.9747

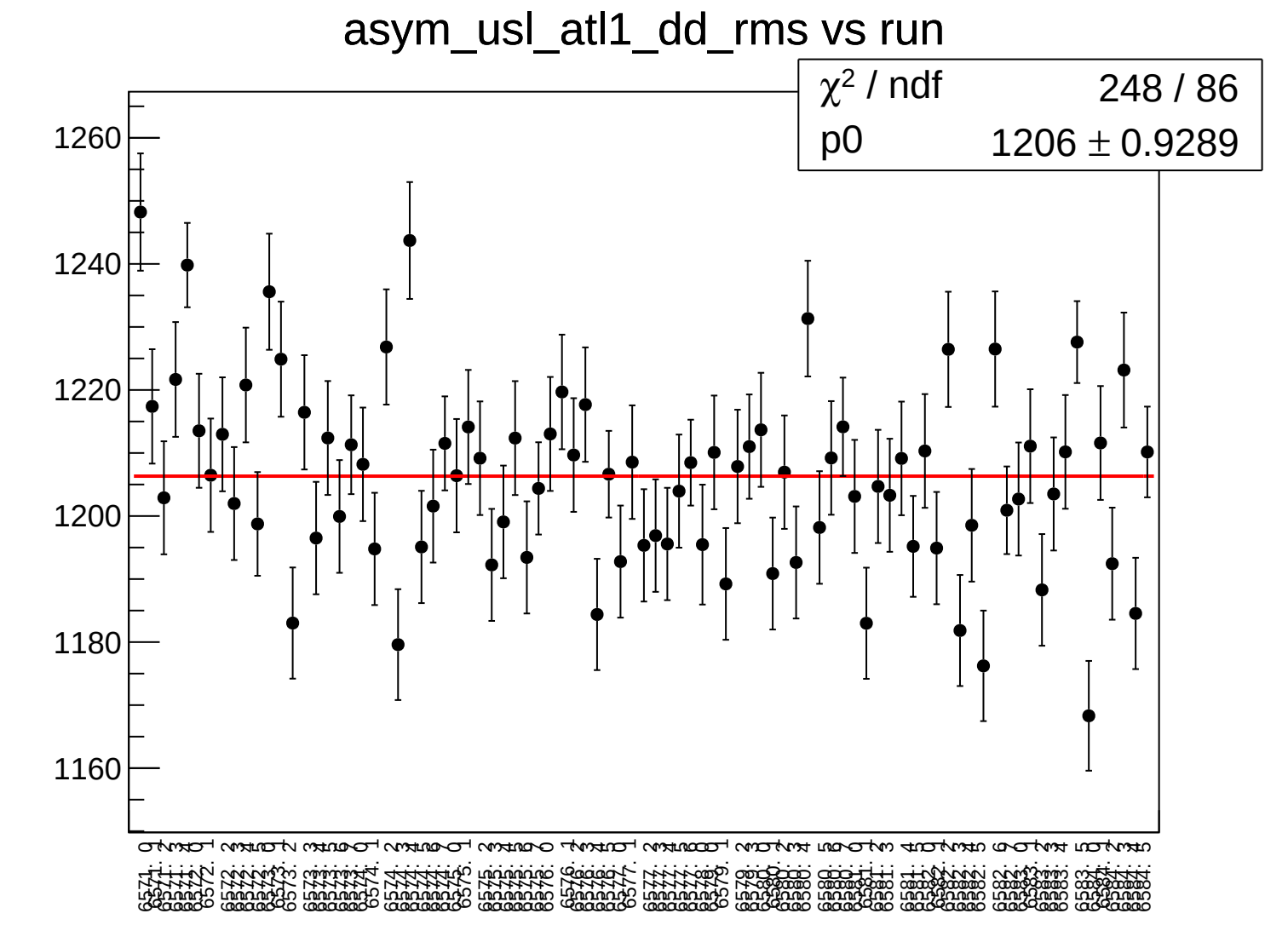

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 92.06 / 86
p0 1135 ± 0.8742
1160
1150
1140
1130
1120
1110

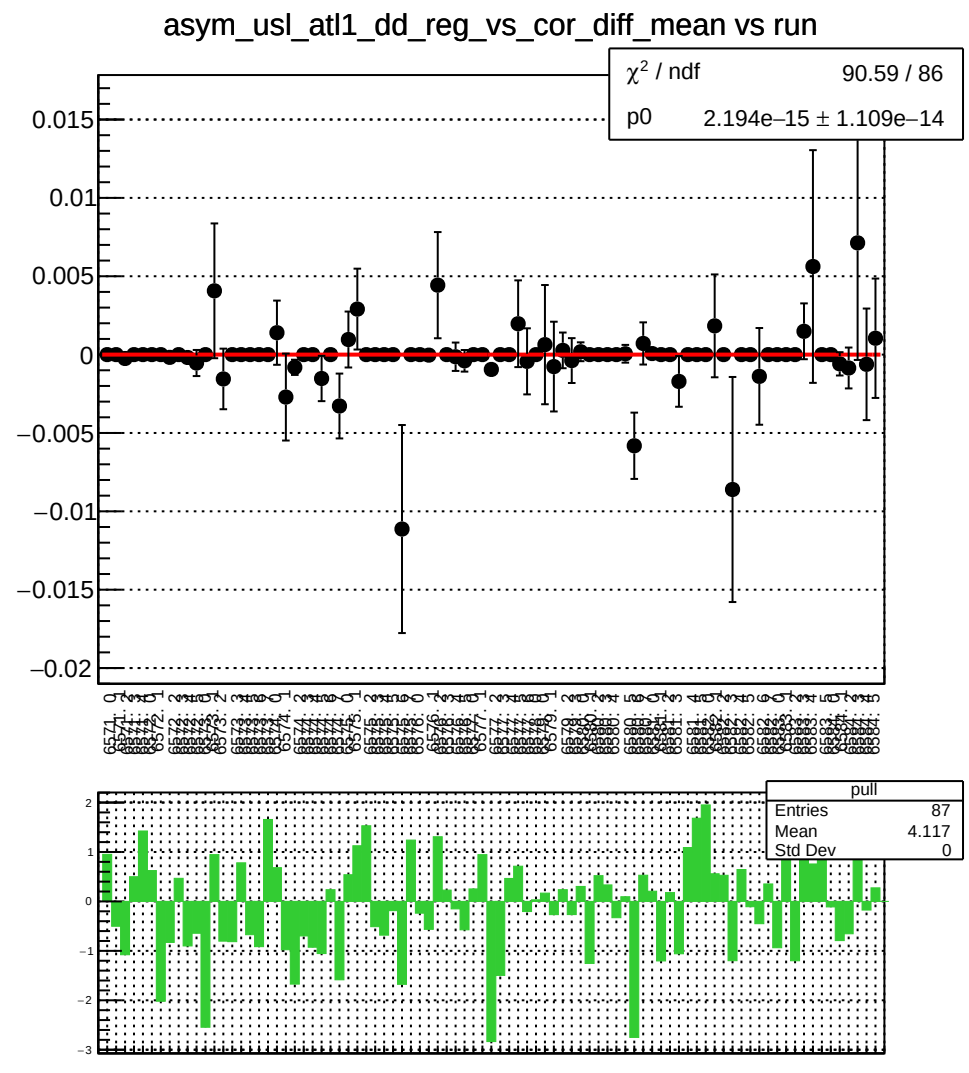

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.1 / 86
p0 −616.7 ± 449.7
pull
Entries 87
Mean −35.7
Std Dev 0
pull1D
Entries 87
Mean −0.006777
Std Dev 1.078

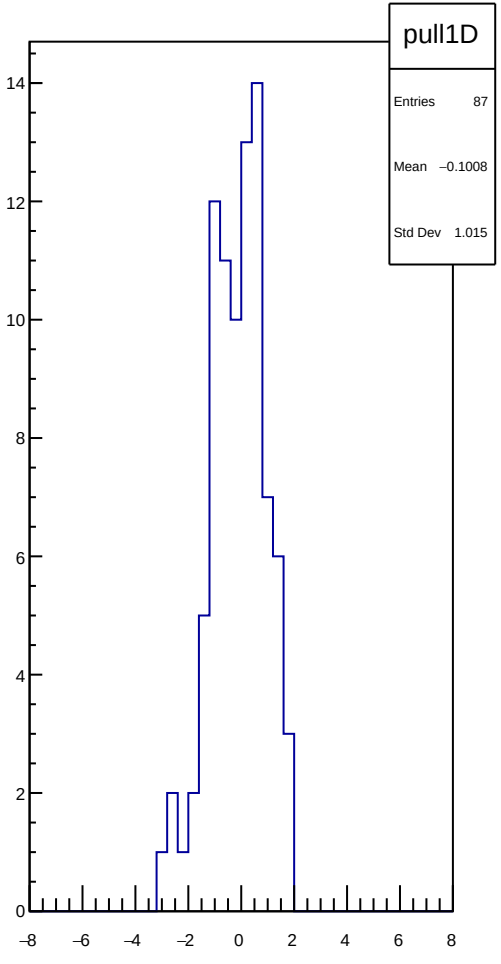

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.413e+04 / 86
p0 411.2 ± 0.318
550
500
450
400
350

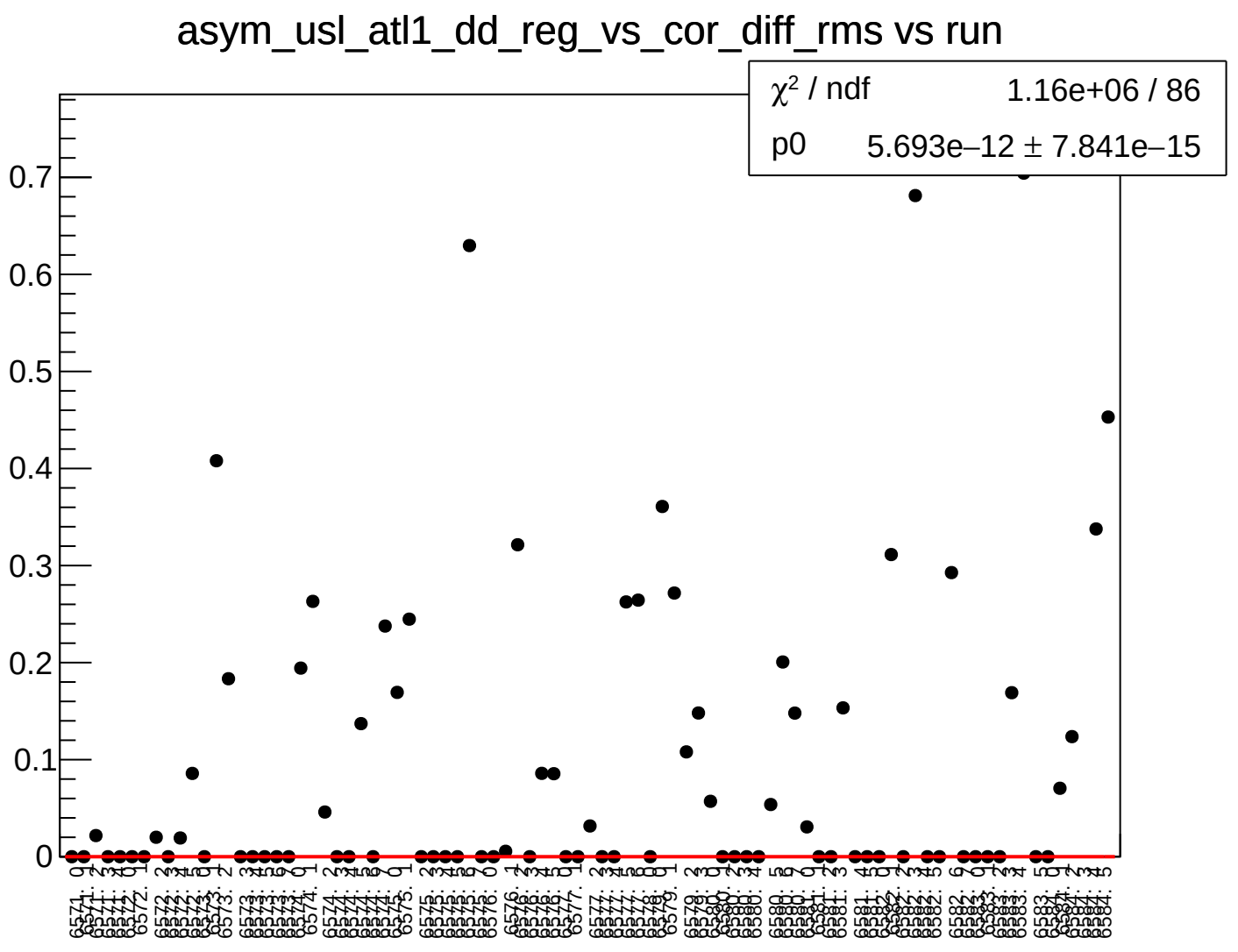

asym_usl_atl1_dd_mean vs run
χ² / ndf 82.86 / 86
p0 2047 ± 1314
pull
Entries 87
Mean 73.73
Std Dev 0

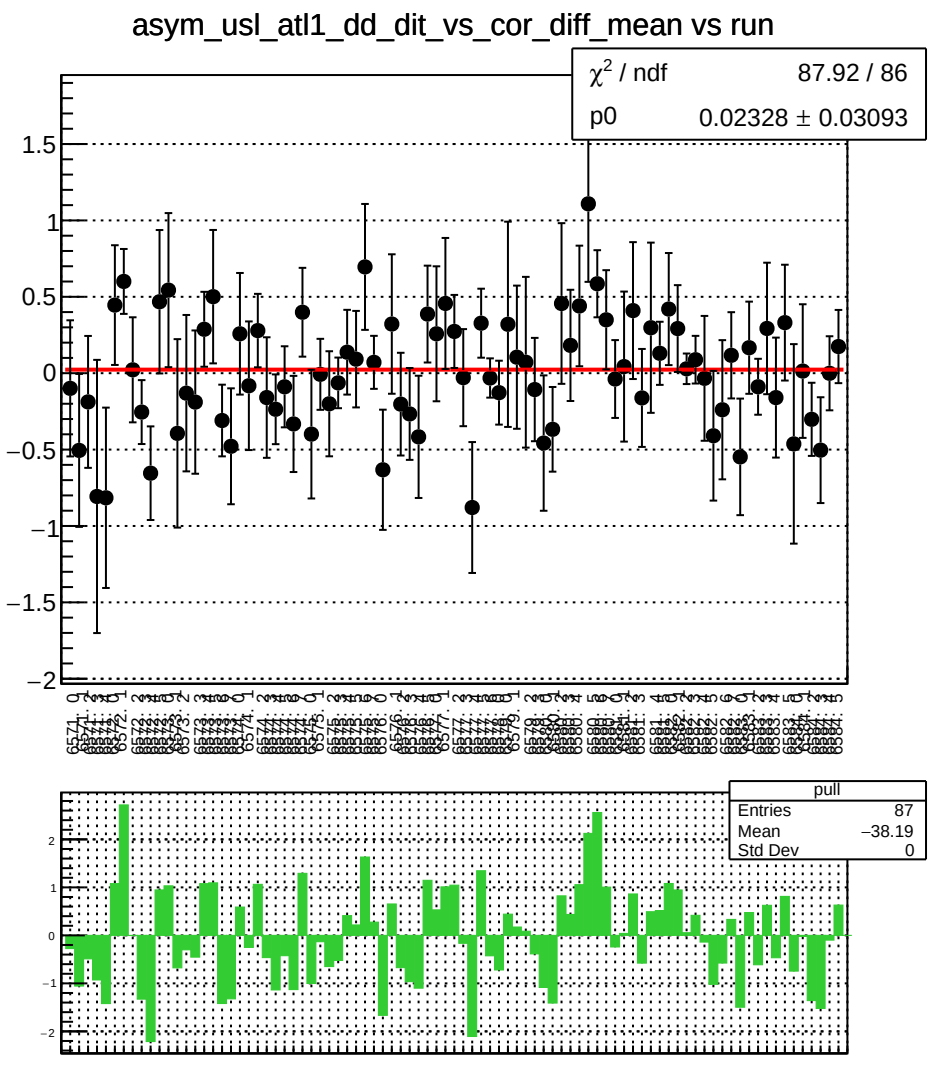

pull1D
Entries 87
Mean 0.01352
Std Dev 0.9758

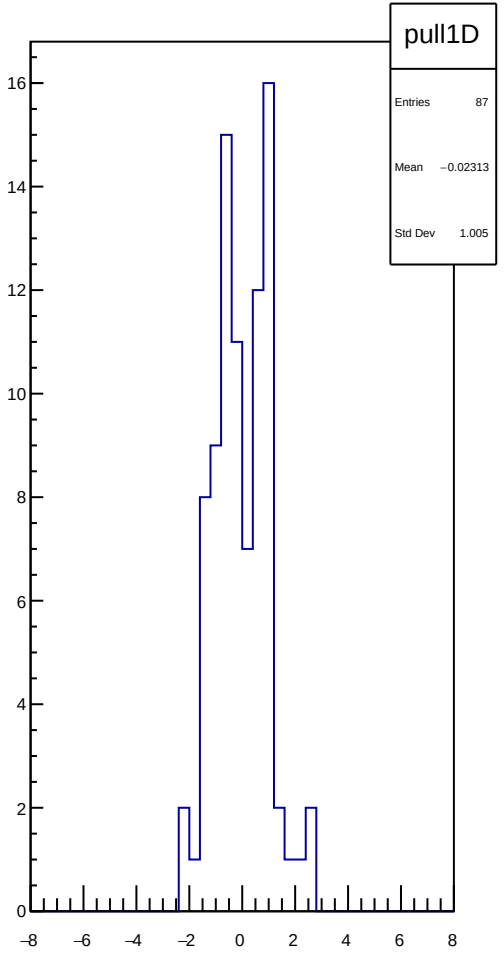

asym_usl_atl1_dd_rms vs run
χ² / ndf 248 / 86
p0 1206 ± 0.9289
1260
1240
1220
1200
1180
1160

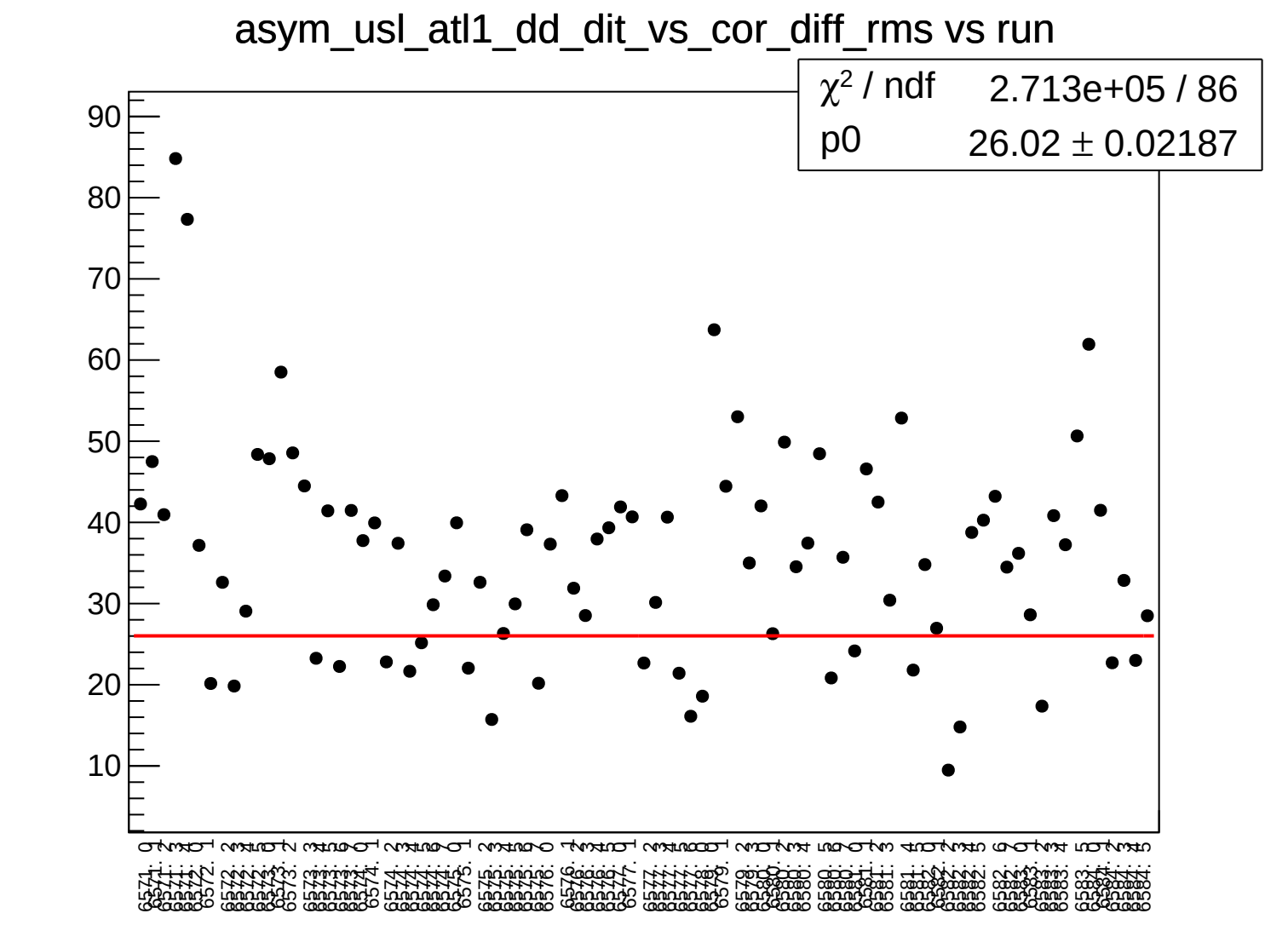

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.59 / 86
p0 2.194e−15 ± 1.109e−14
pull
Entries 87
Mean 4.117
Std Dev 0

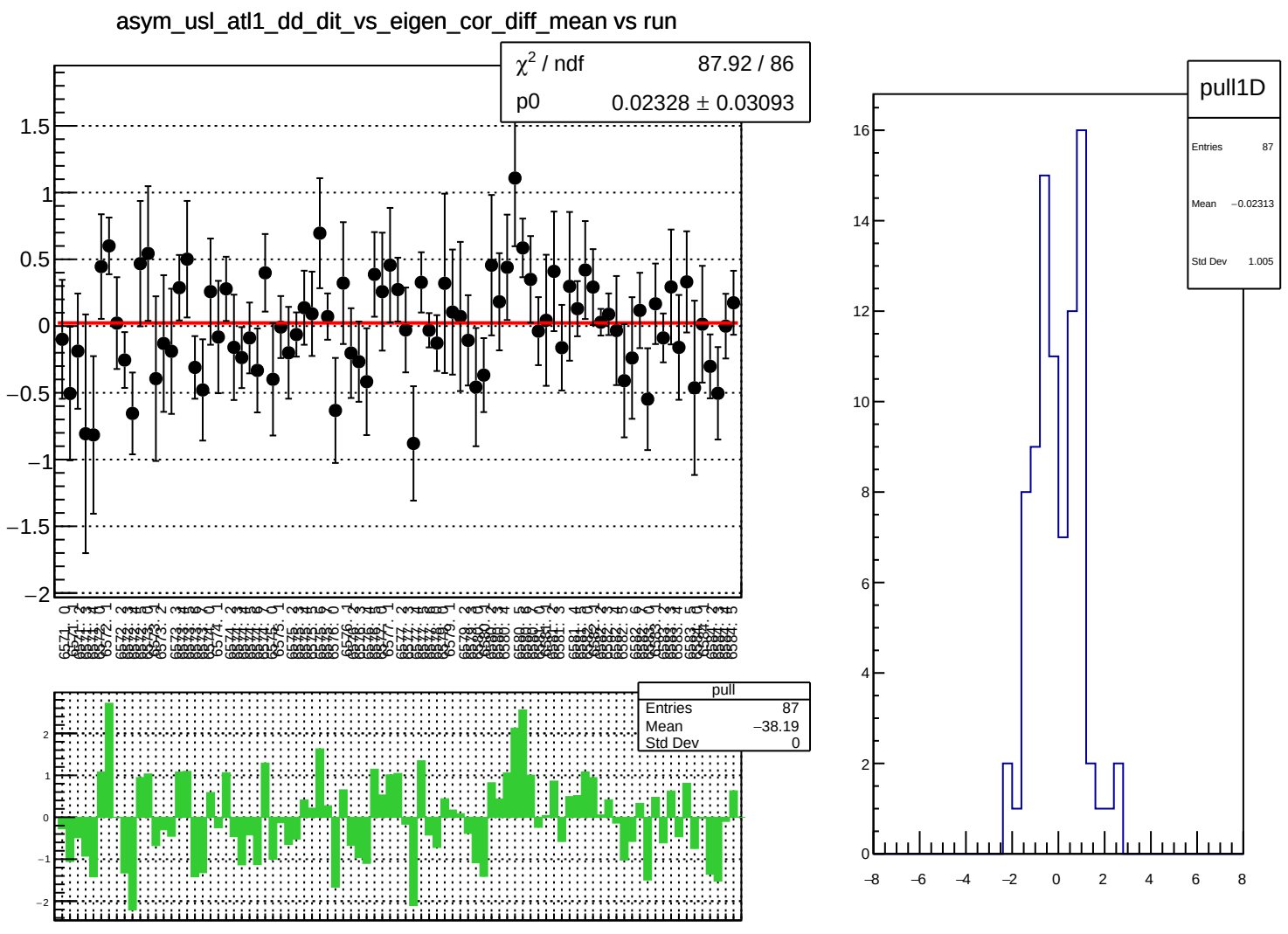

pull1D
Entries 87
Mean −0.1008
Std Dev 1.015

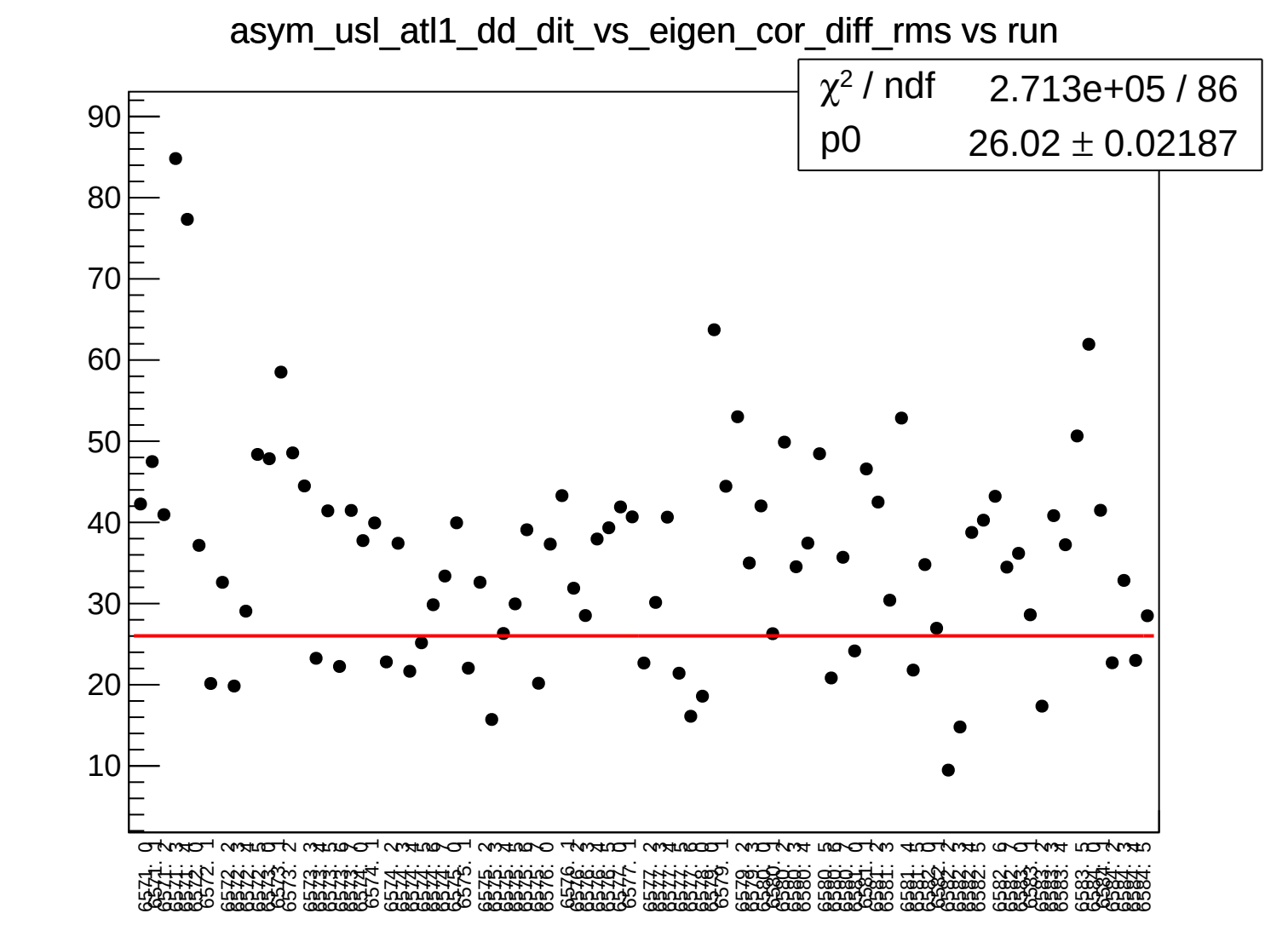

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.16e+06 / 86
p0 5.693e−12 ± 7.841e−15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

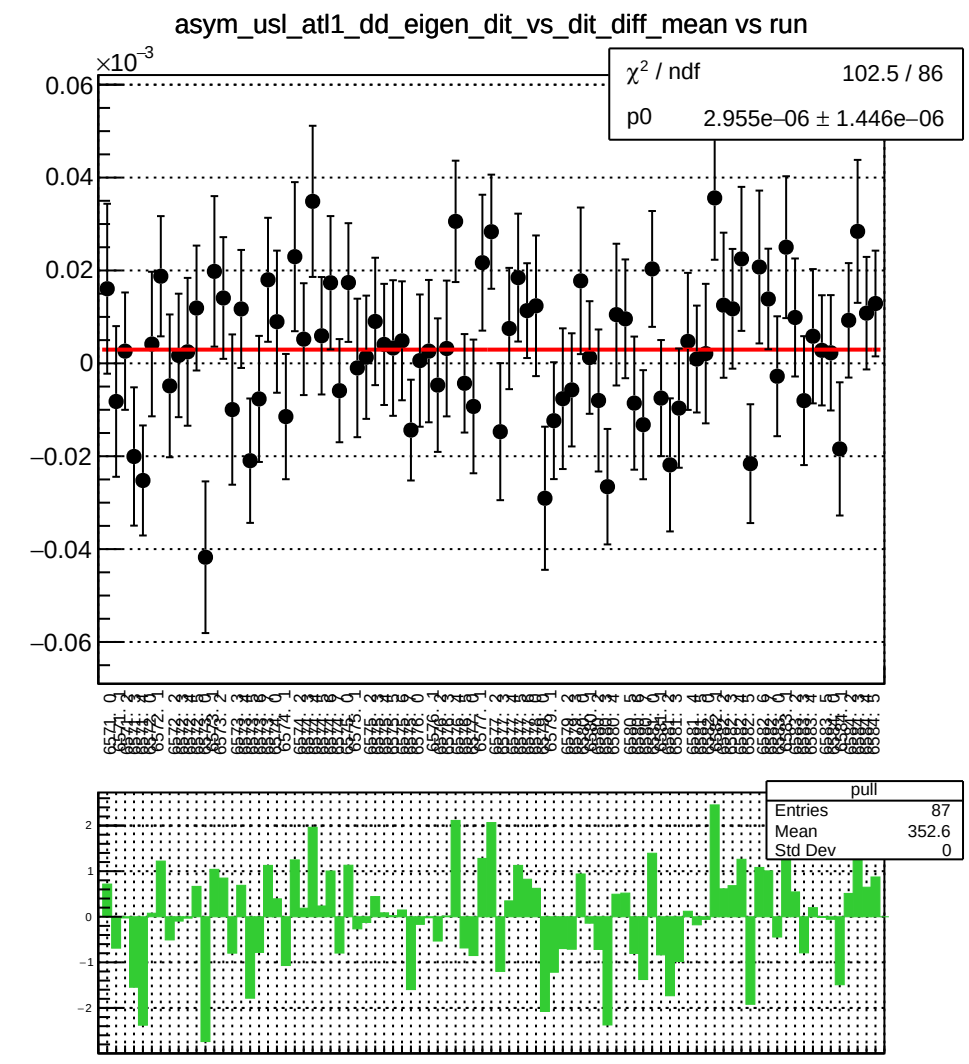

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.92 / 86
p0 0.02328 ± 0.03093
pull
Entries 87
Mean −38.19
Std Dev 0

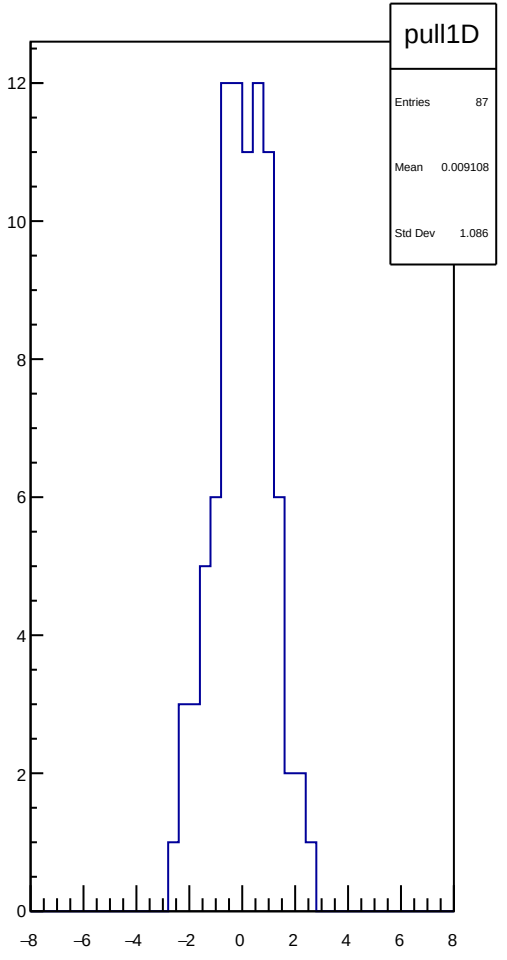

pull1D
Entries 87
Mean −0.02313
Std Dev 1.005

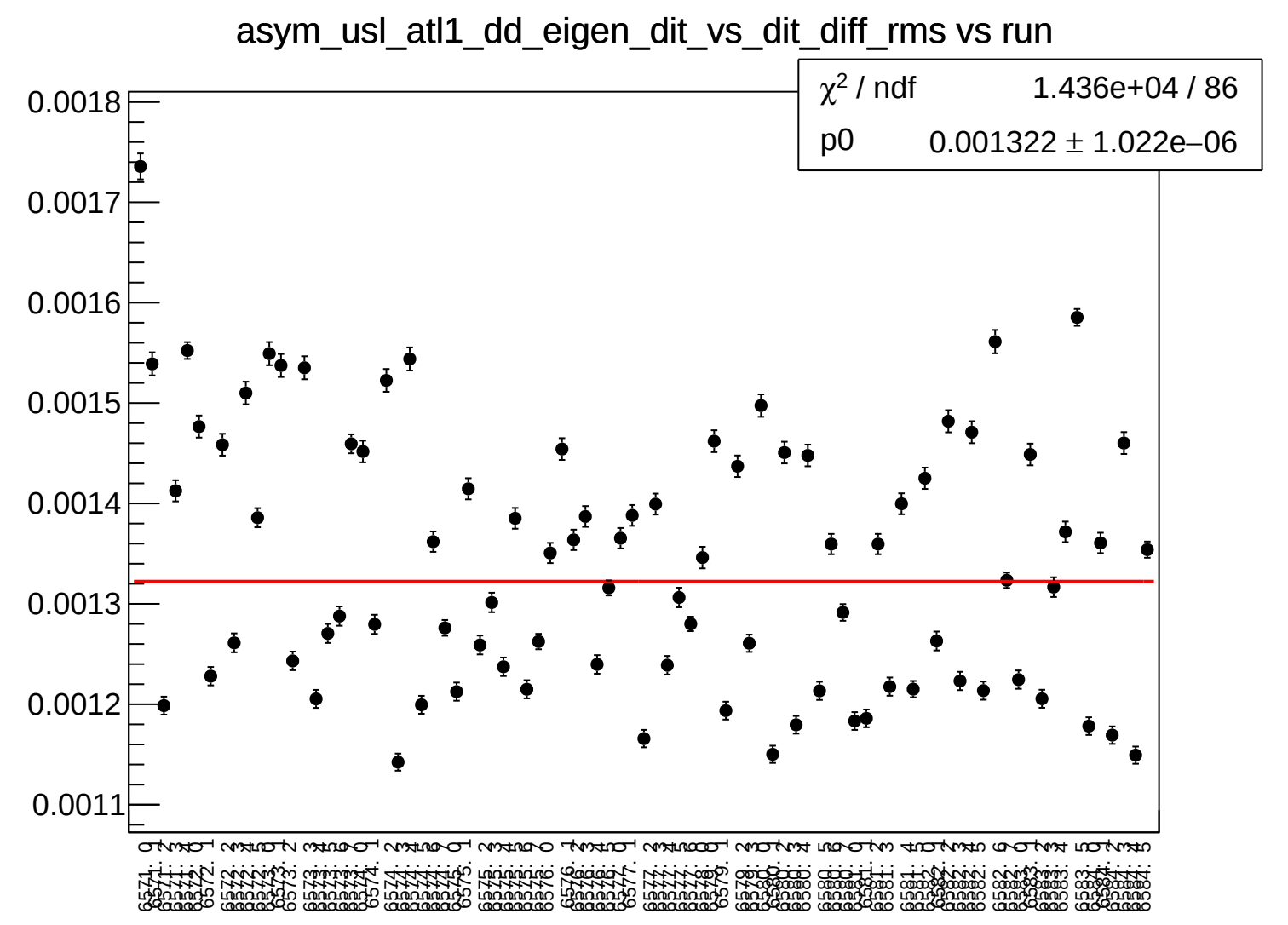

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.713e+05 / 86
p0 26.02 ± 0.02187
90
80
70
60
50
40
30
20
10

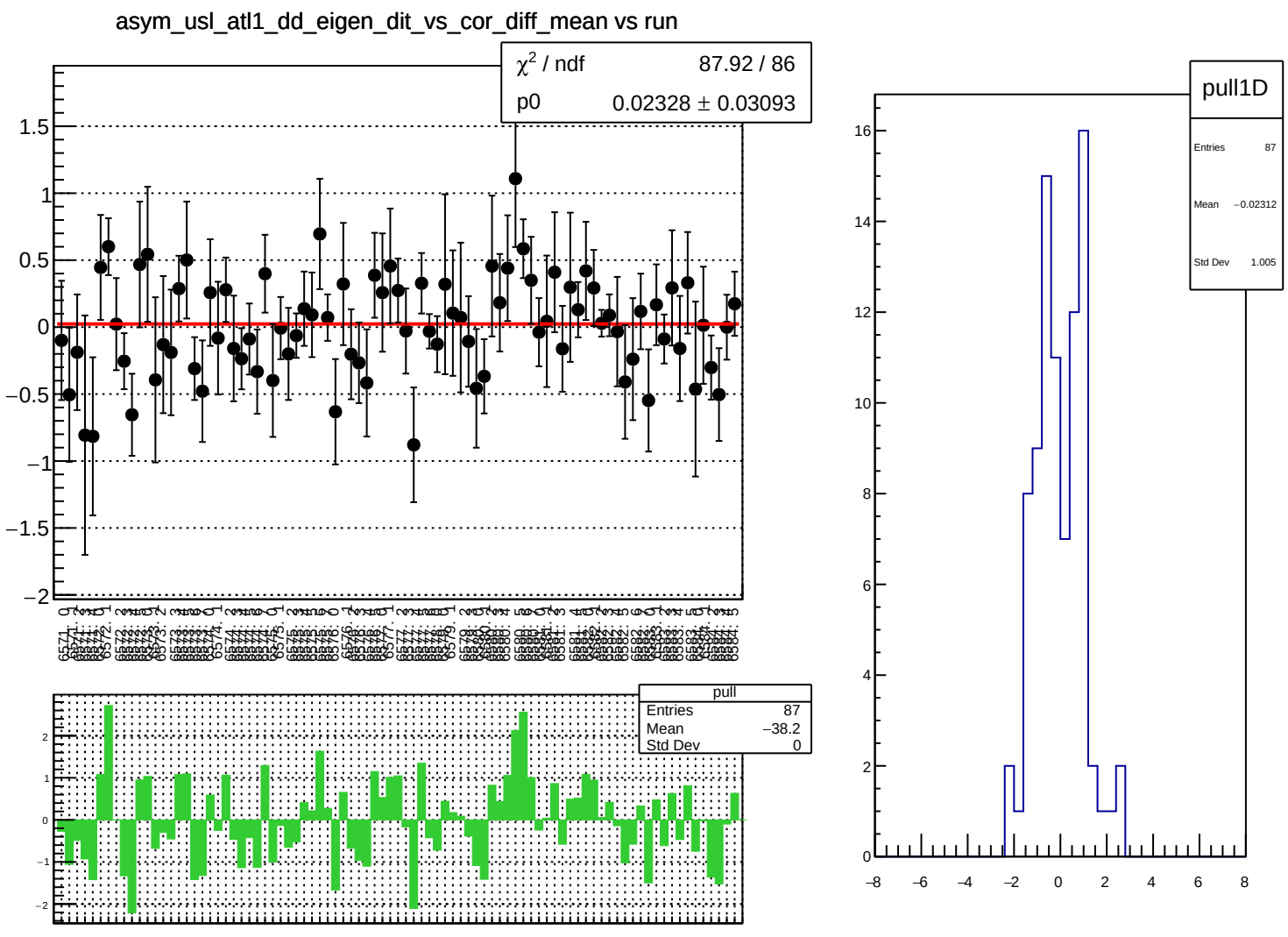

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.92 / 86
p0 0.02328 ± 0.03093
pull
Entries 87
Mean −38.19
Std Dev 0
pull1D
Entries 87
Mean −0.02313
Std Dev 1.005

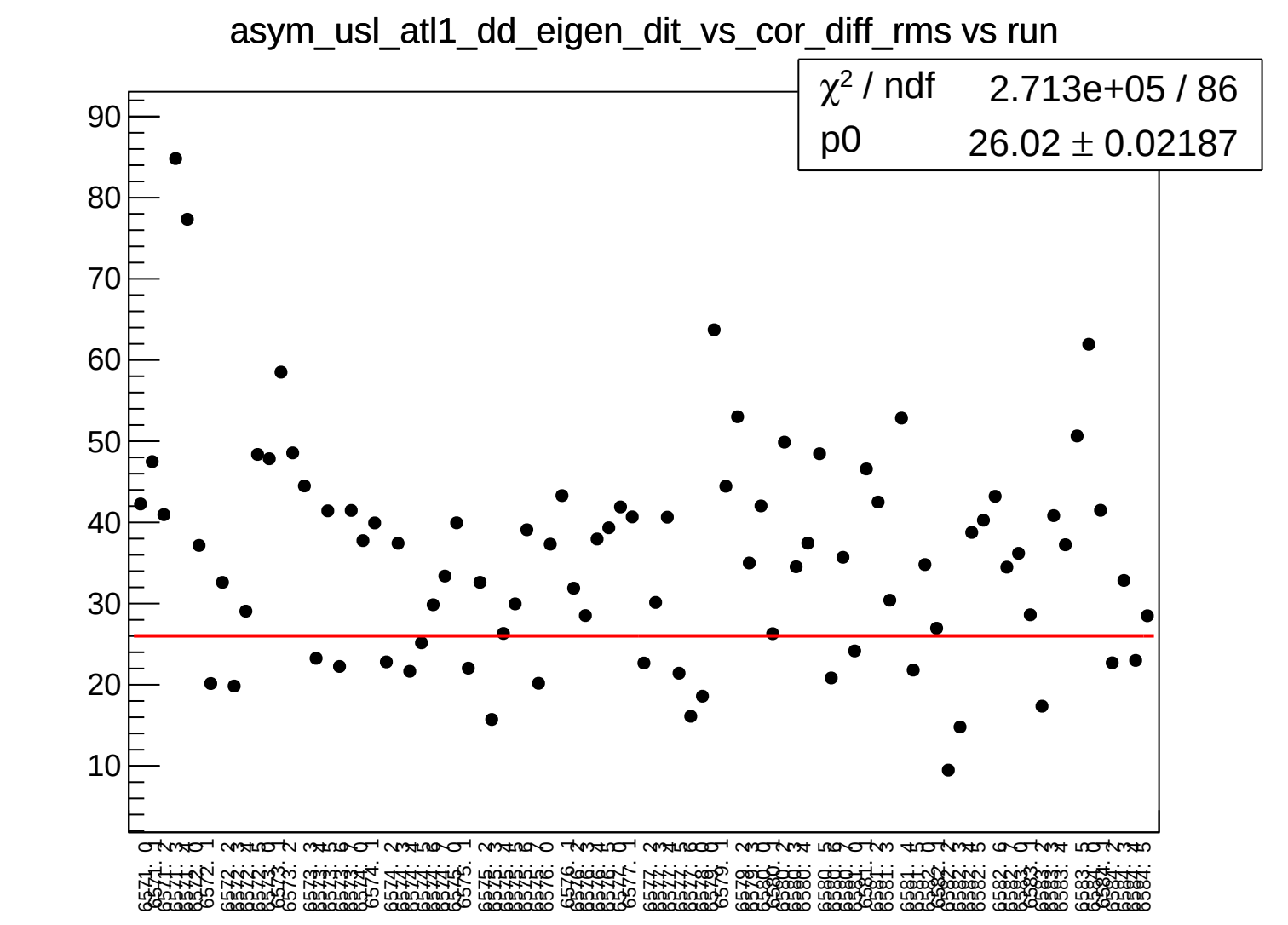

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.713e+05 / 86
p0 26.02 ± 0.02187
90
80
70
60
50
40
30
20
10

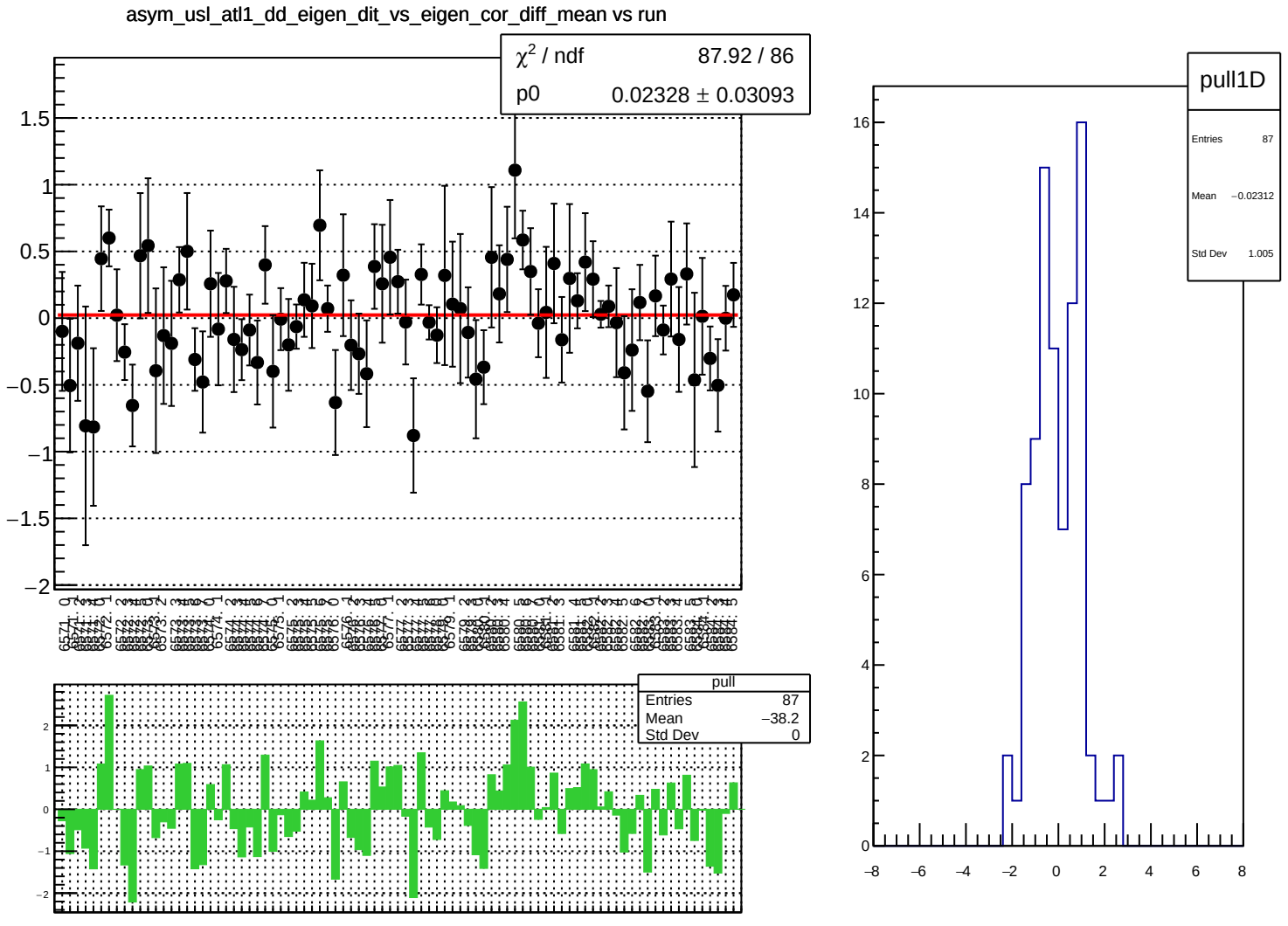

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.5 / 86
p0 2.955e−06 ± 1.446e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean 352.6
Std Dev 0
2
1
0
−1
−2

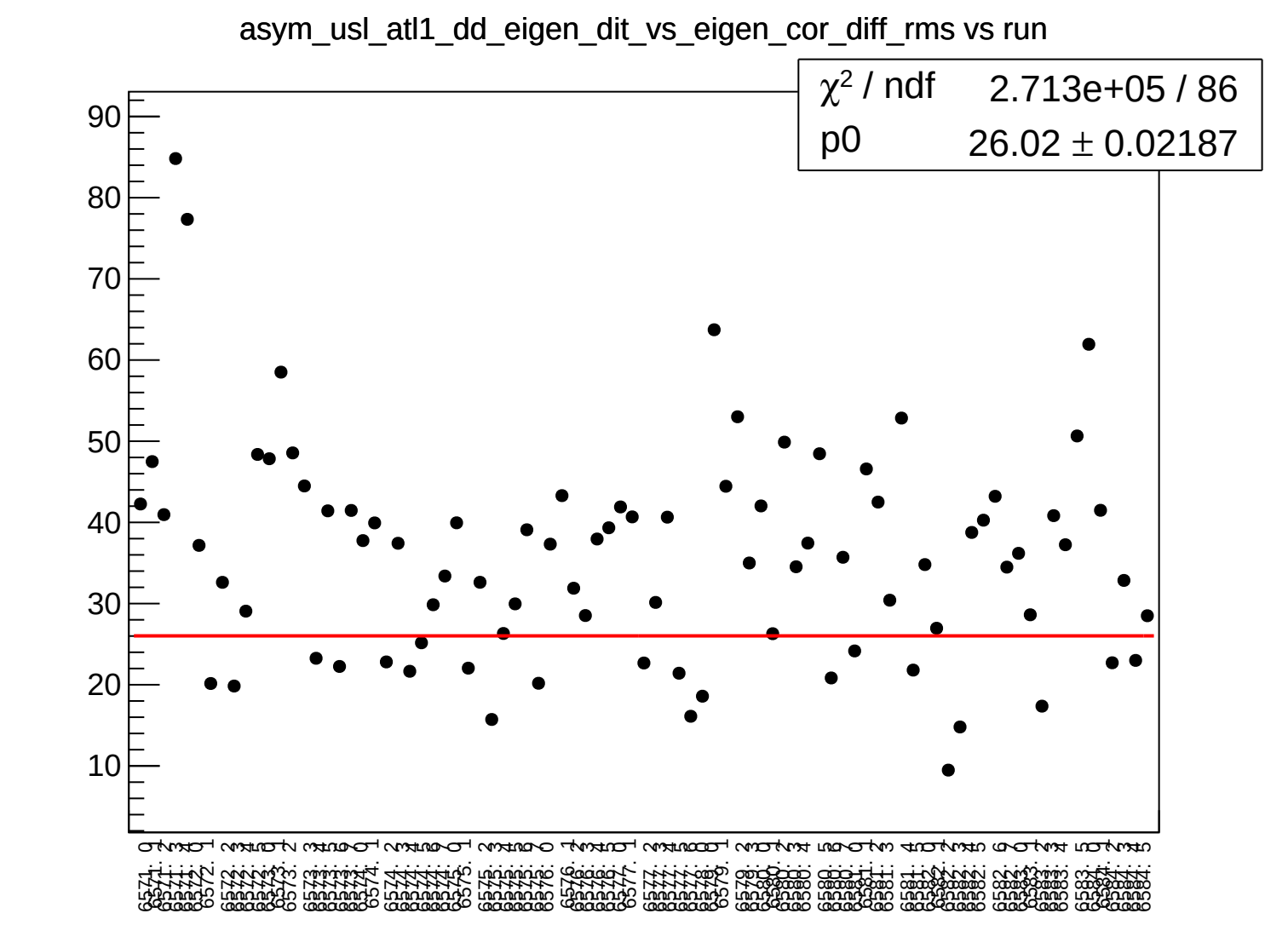

pull1D
Entries 87
Mean 0.009108
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

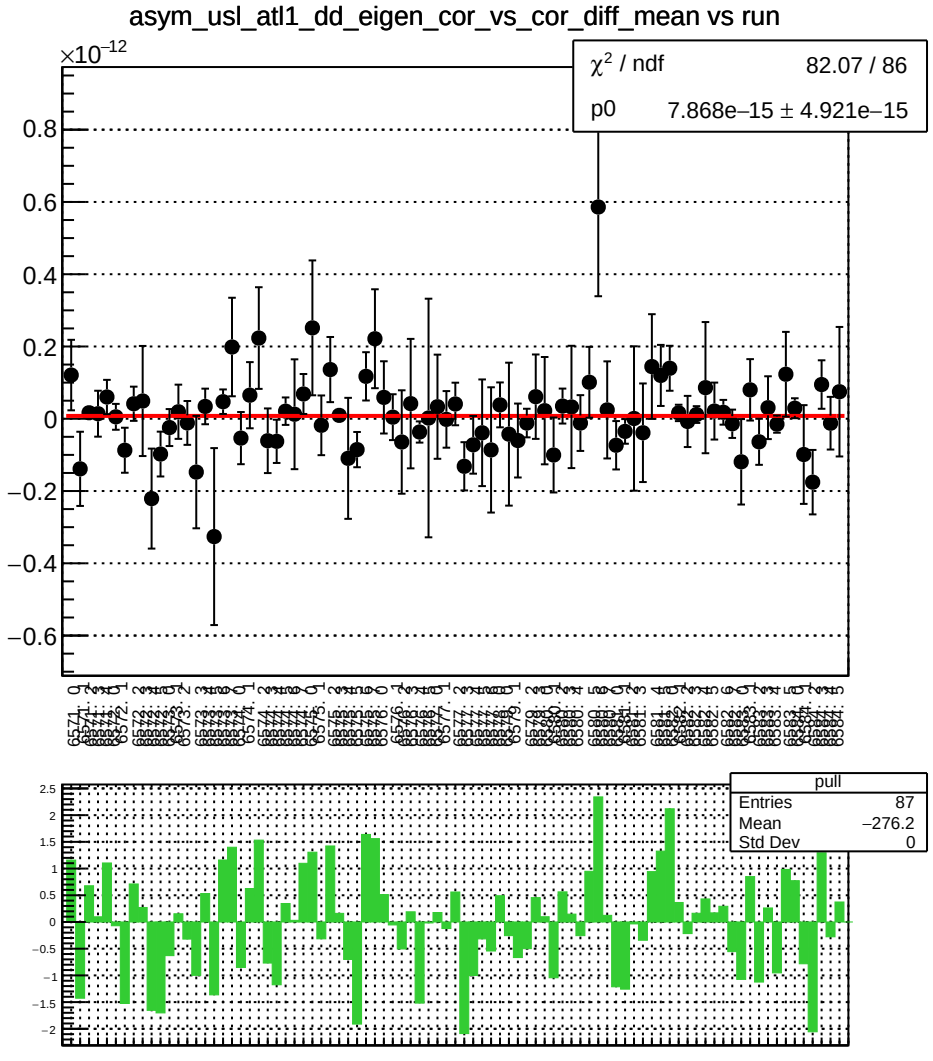

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.436e+04 / 86
p0 0.001322 ± 1.022e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

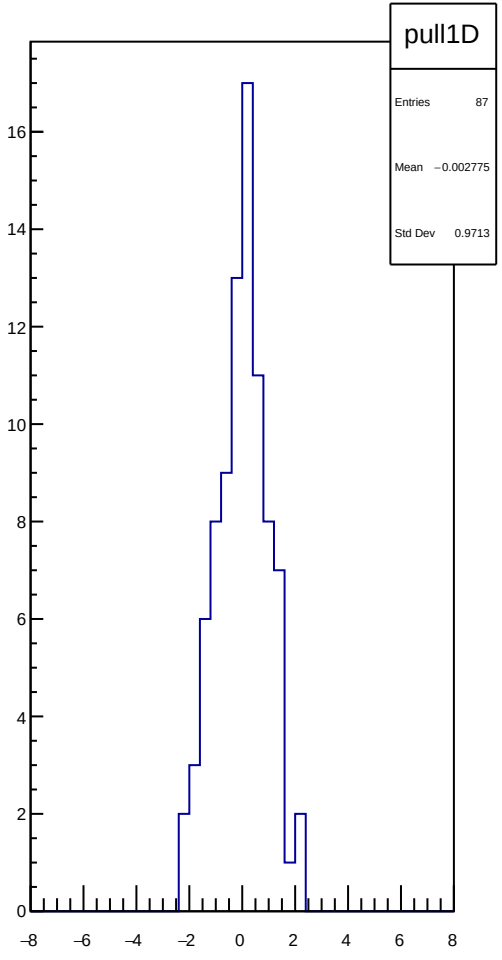

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.92 / 86
p0 0.02328 ± 0.03093
pull
Entries 87
Mean −38.2
Std Dev 0
pull1D
Entries 87
Mean −0.02312
Std Dev 1.005

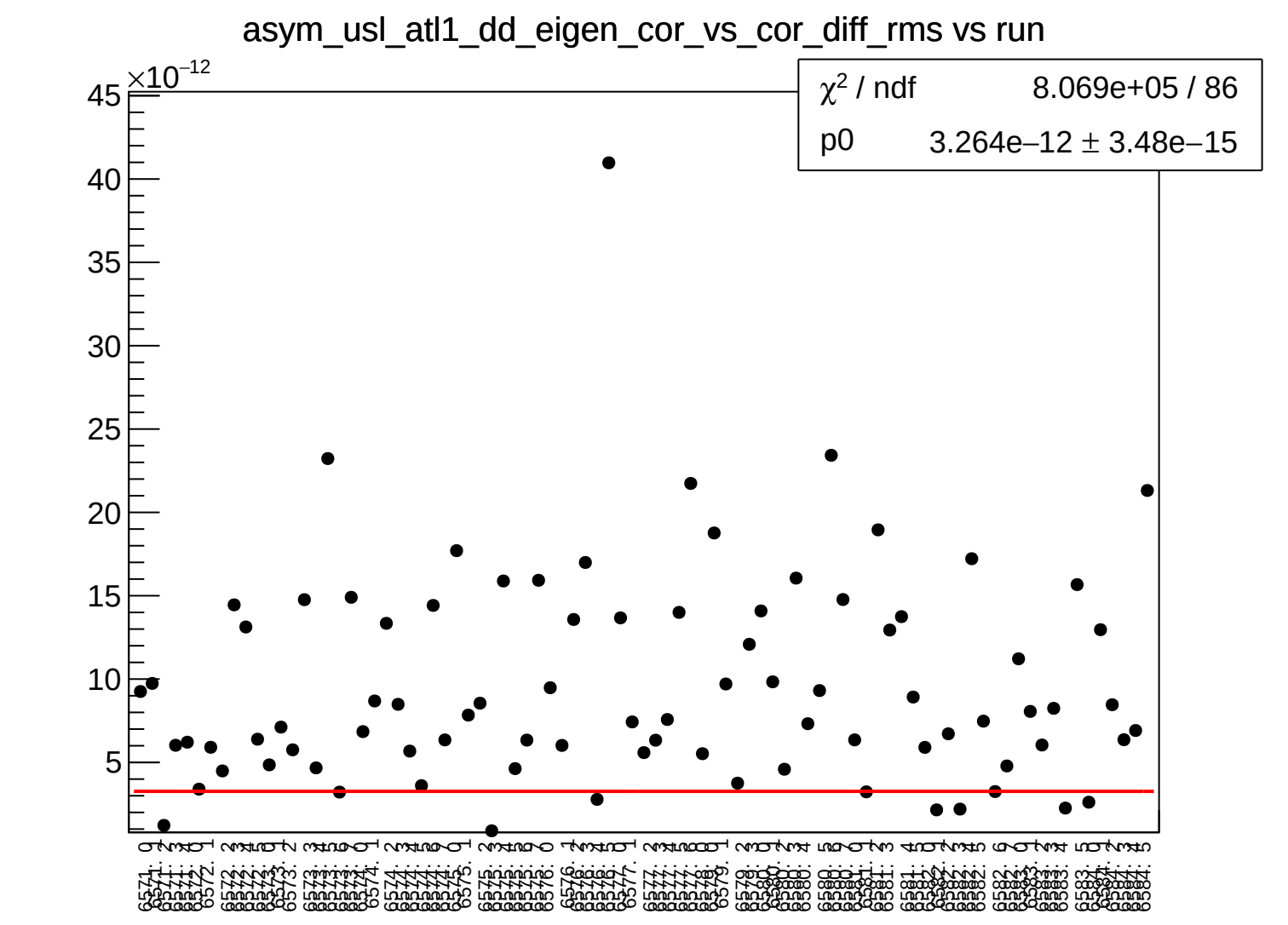

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.713e+05 / 86
p0 26.02 ± 0.02187
90
80
70
60
50
40
30
20
10

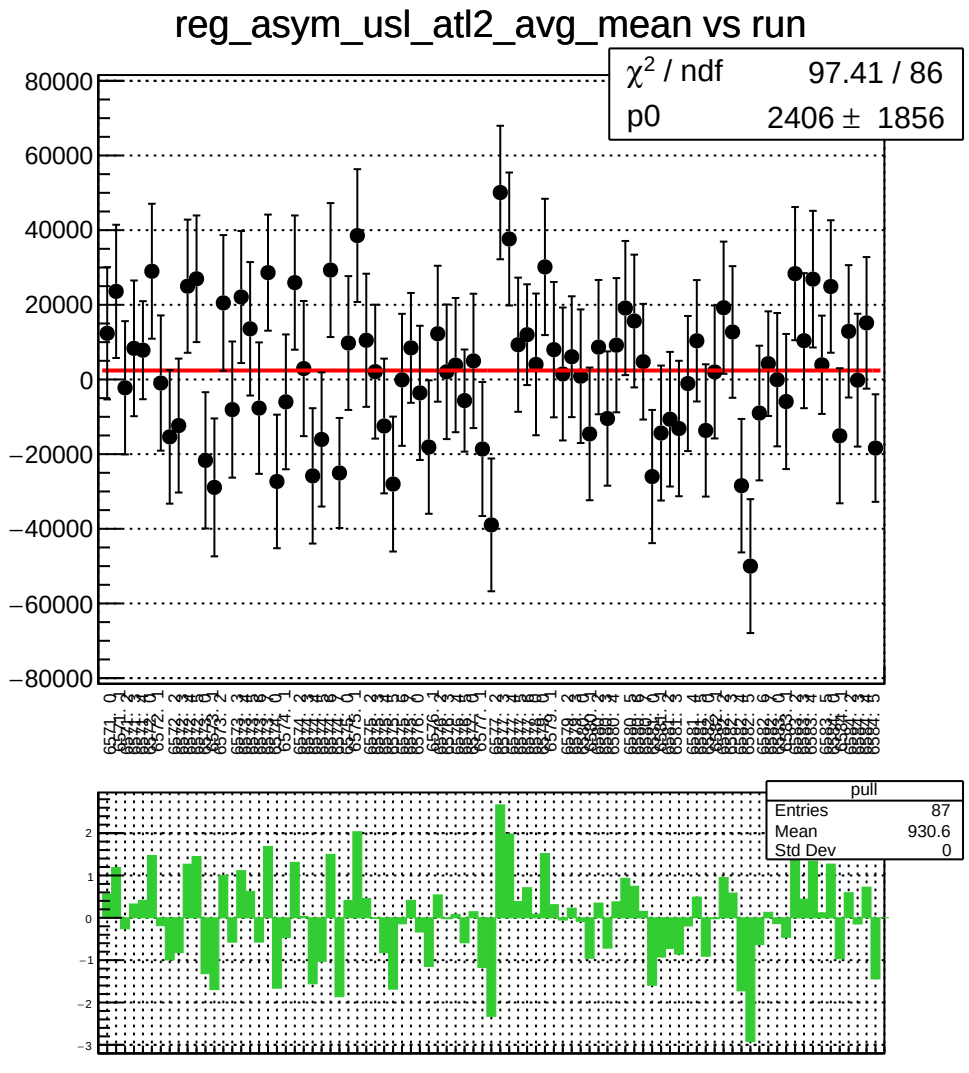

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.92 / 86
p0 0.02328 ± 0.03093
pull
Entries 87
Mean −38.2
Std Dev 0
pull1D
Entries 87
Mean −0.02312
Std Dev 1.005

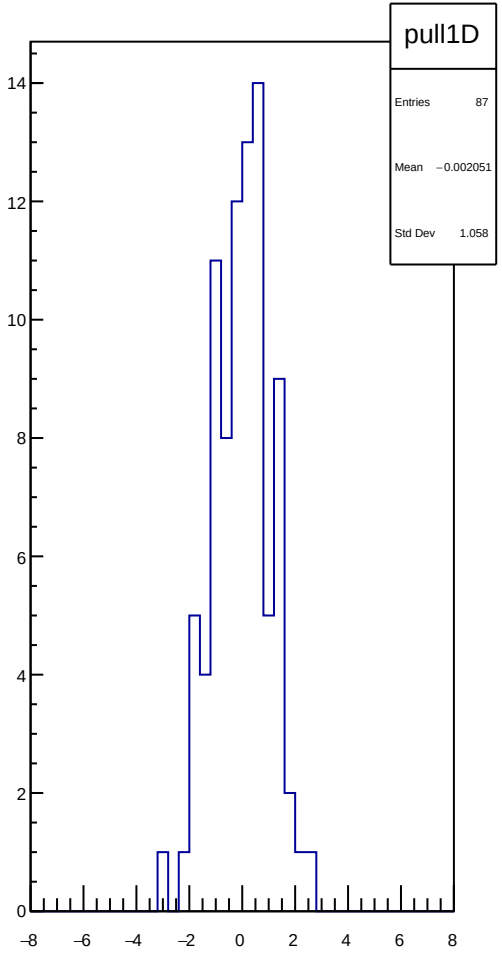

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.713e+05 / 86
p0 26.02 ± 0.02187
90
80
70
60
50
40
30
20
10

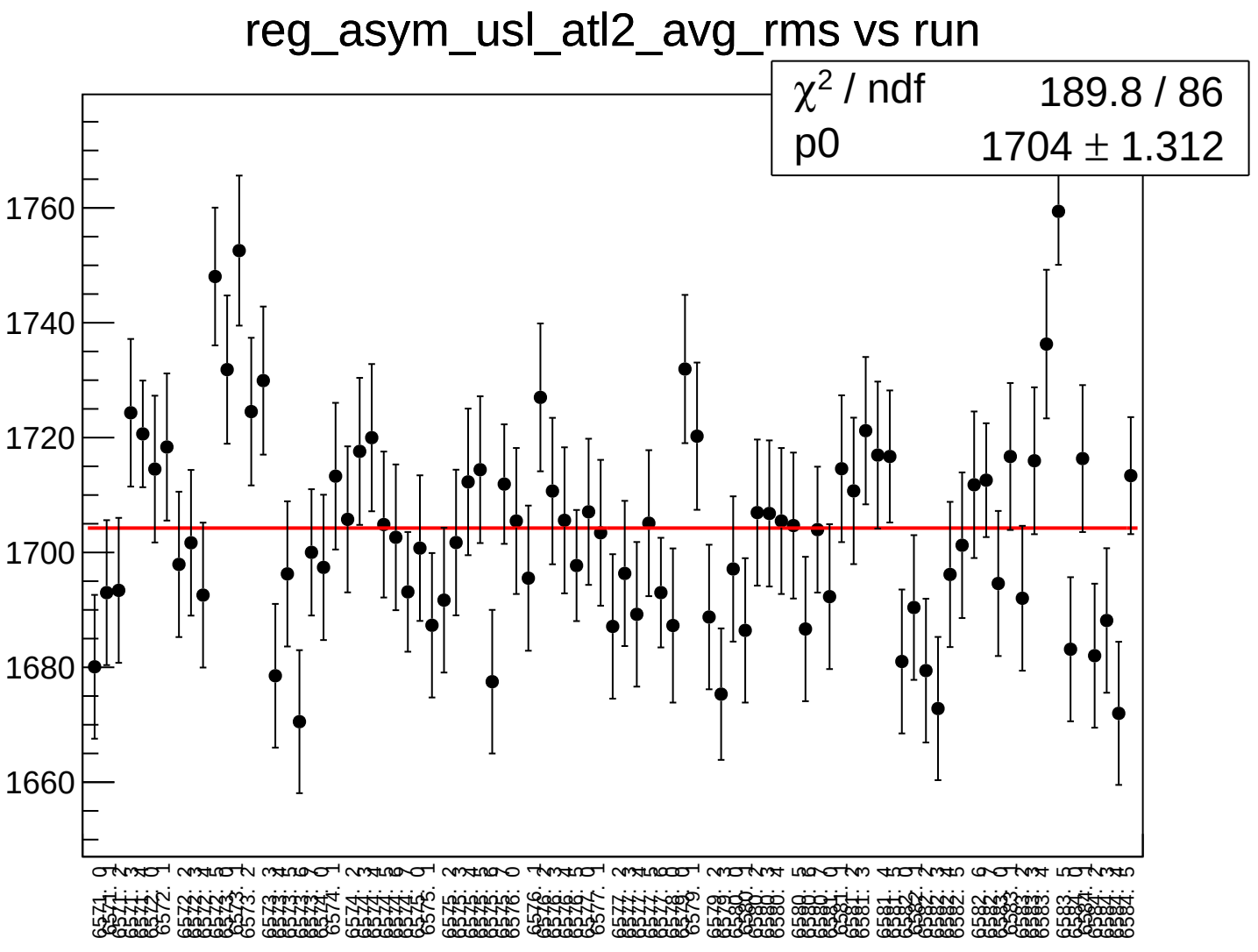

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.07 / 86
p0 7.868e−15 ± 4.921e−15
pull
Entries 87
Mean −276.2
Std Dev 0

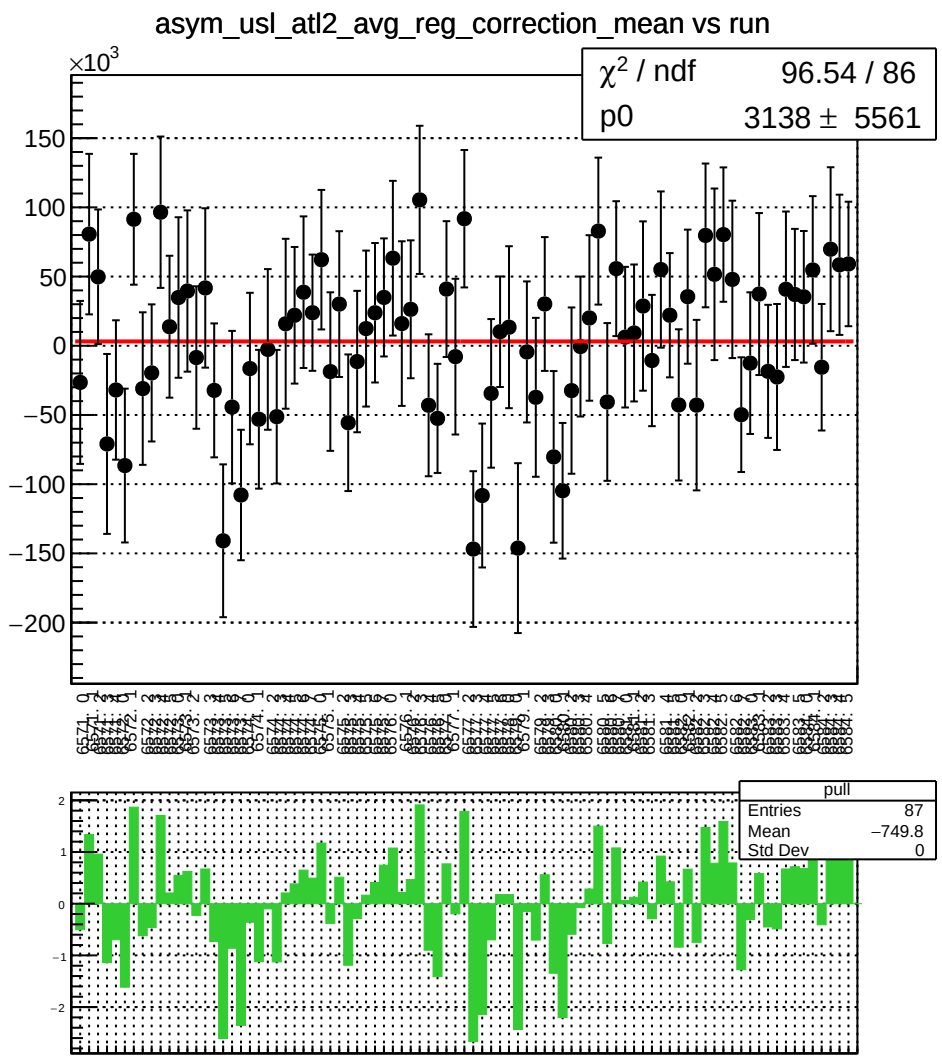

pull1D
Entries 87
Mean −0.002775
Std Dev 0.9713

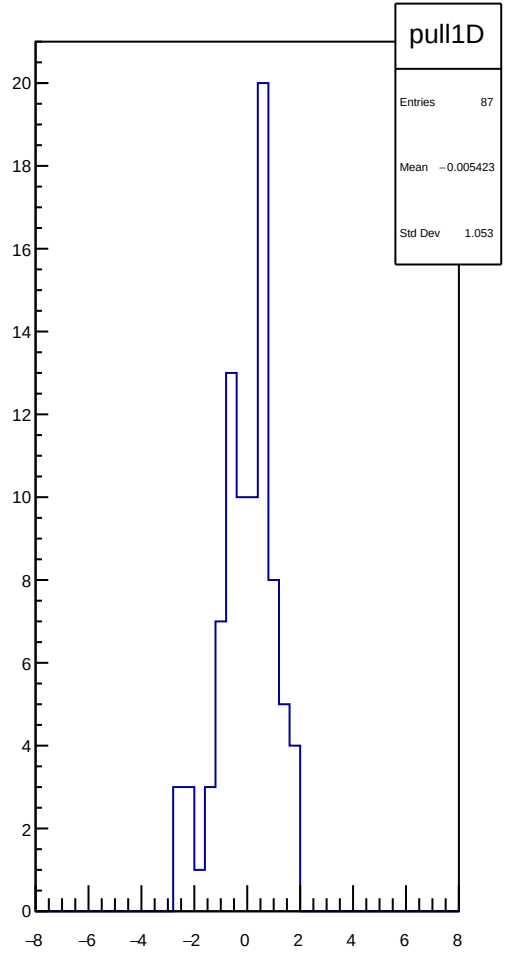

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.069e+05 / 86
p0 3.264e−12 ± 3.48e−15
45
40
35
30
25
20
15
10
5

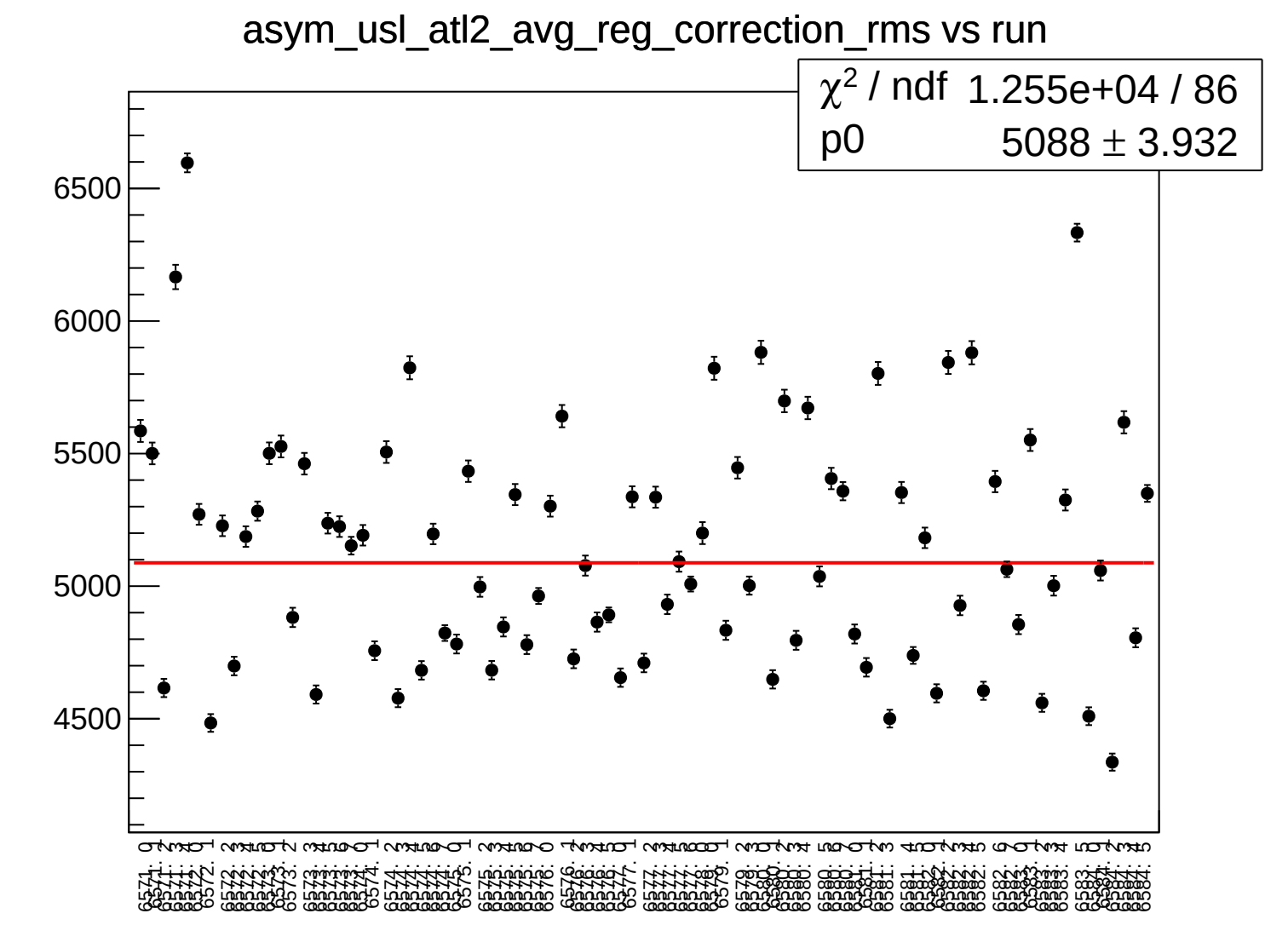

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 97.41 / 86
p0 2406 ± 1856
pull
Entries 87
Mean 930.6
Std Dev 0

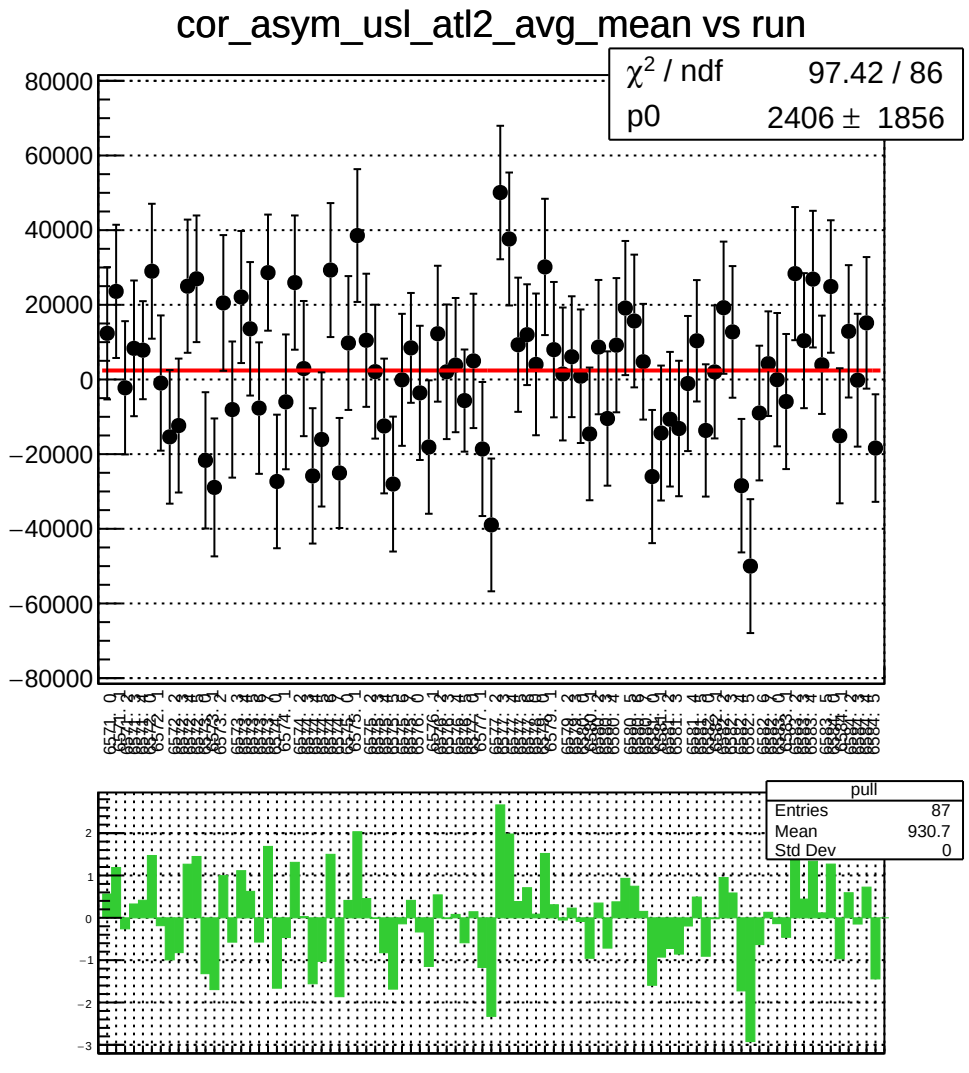

pull1D
Entries 87
Mean −0.002051
Std Dev 1.058

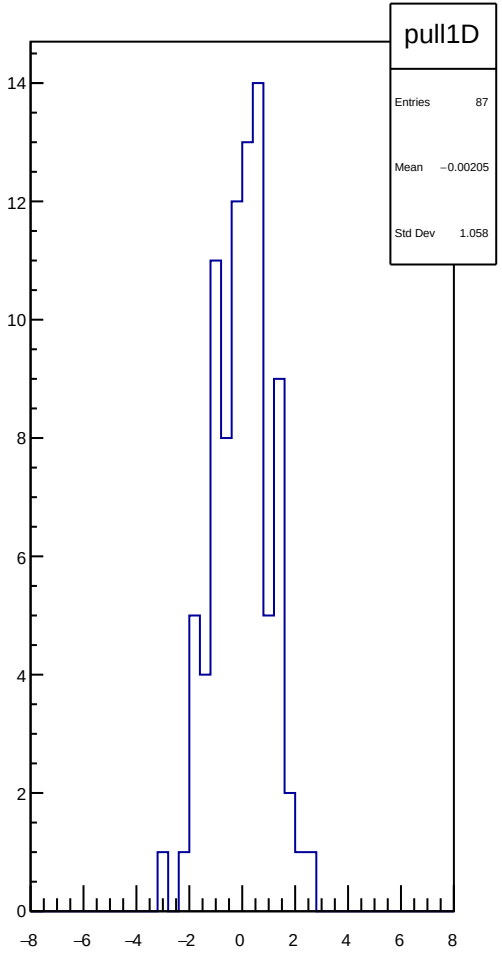

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 189.8 / 86
p0 1704 ± 1.312
1760
1740
1720
1700
1680
1660

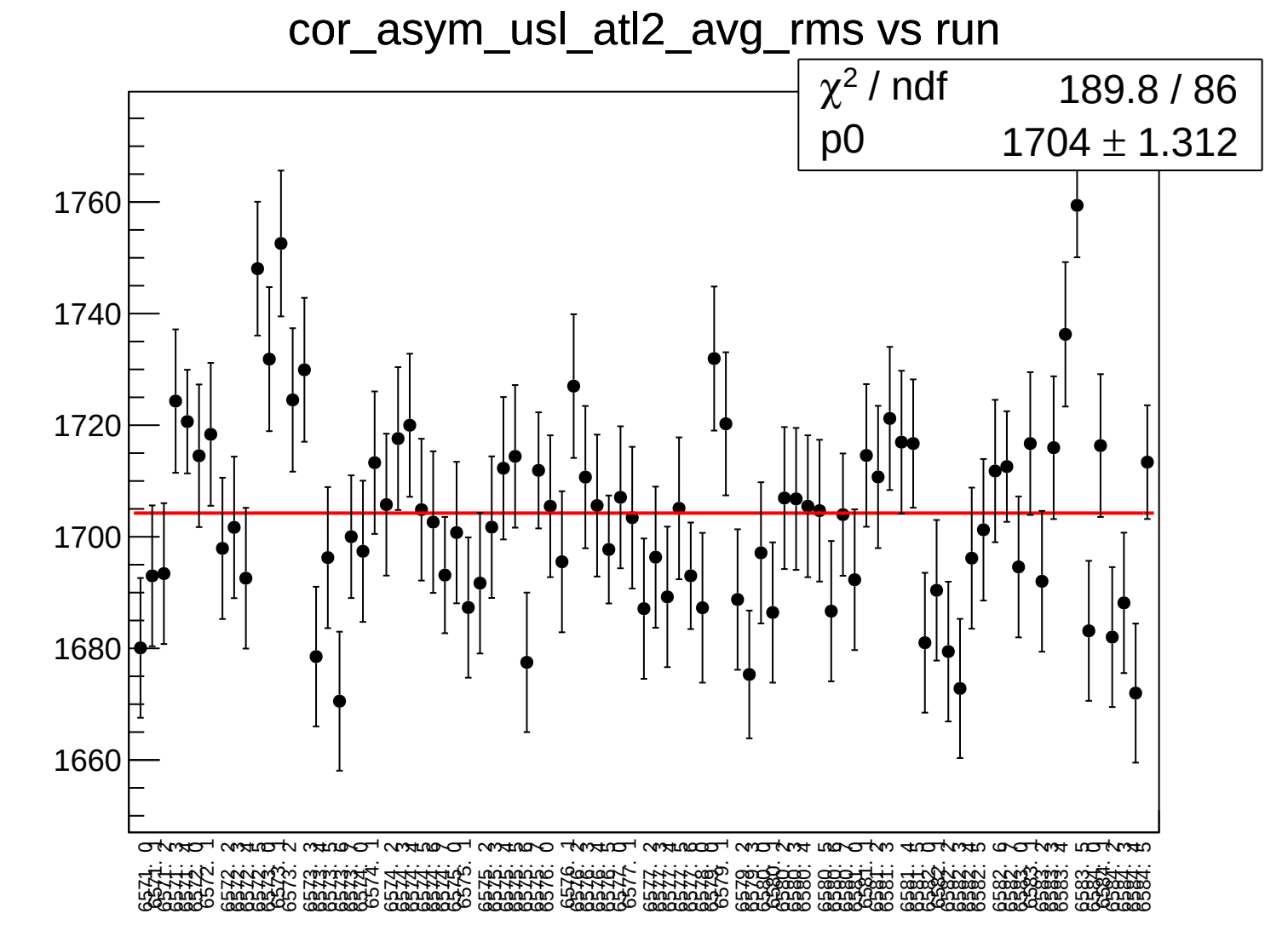

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.54 / 86
p0 3138 ± 5561
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −749.8
Std Dev 0
2
1
0
−1
−2

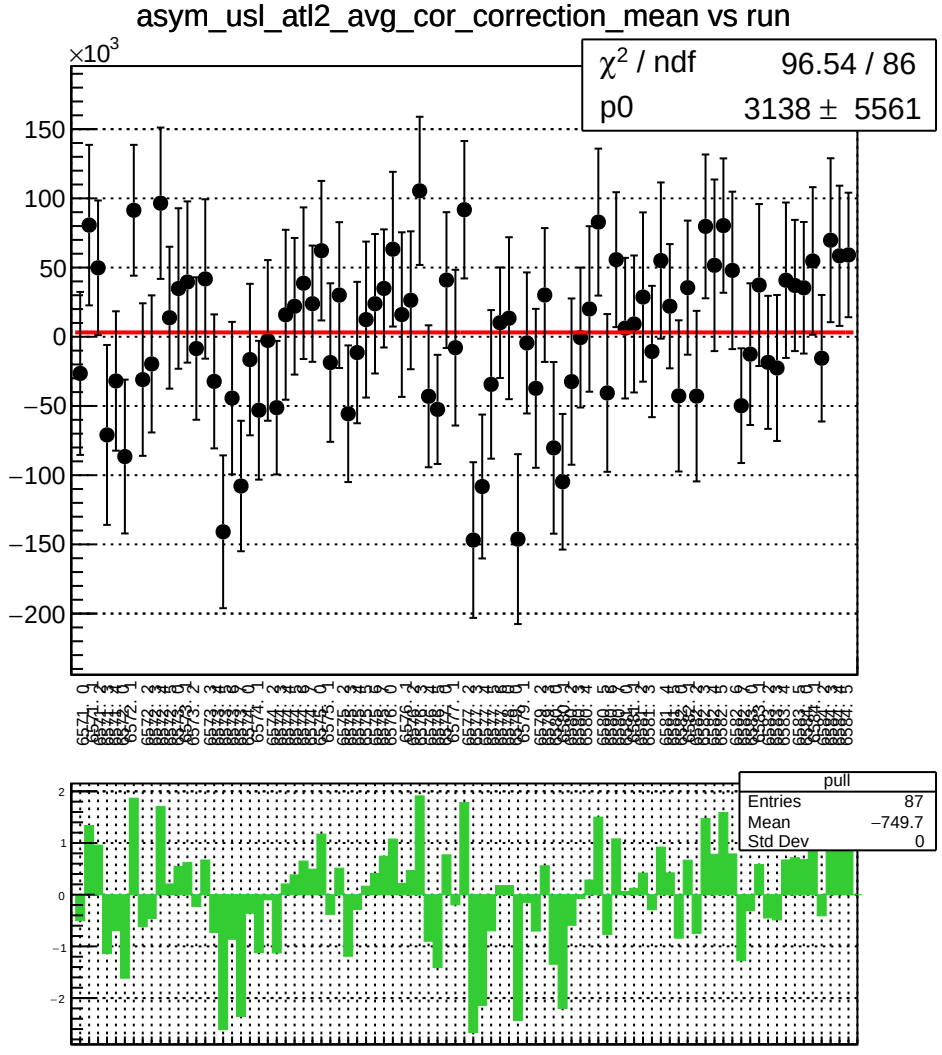

pull1D
Entries 87
Mean −0.005423
Std Dev 1.053
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

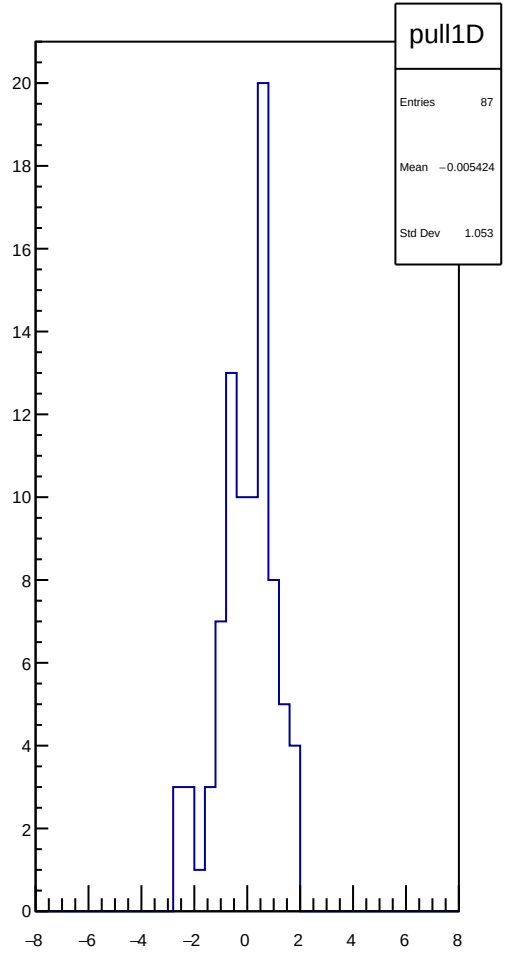

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.255e+04 / 86
p0 5088 ± 3.932
6500
6000
5500
5000
4500

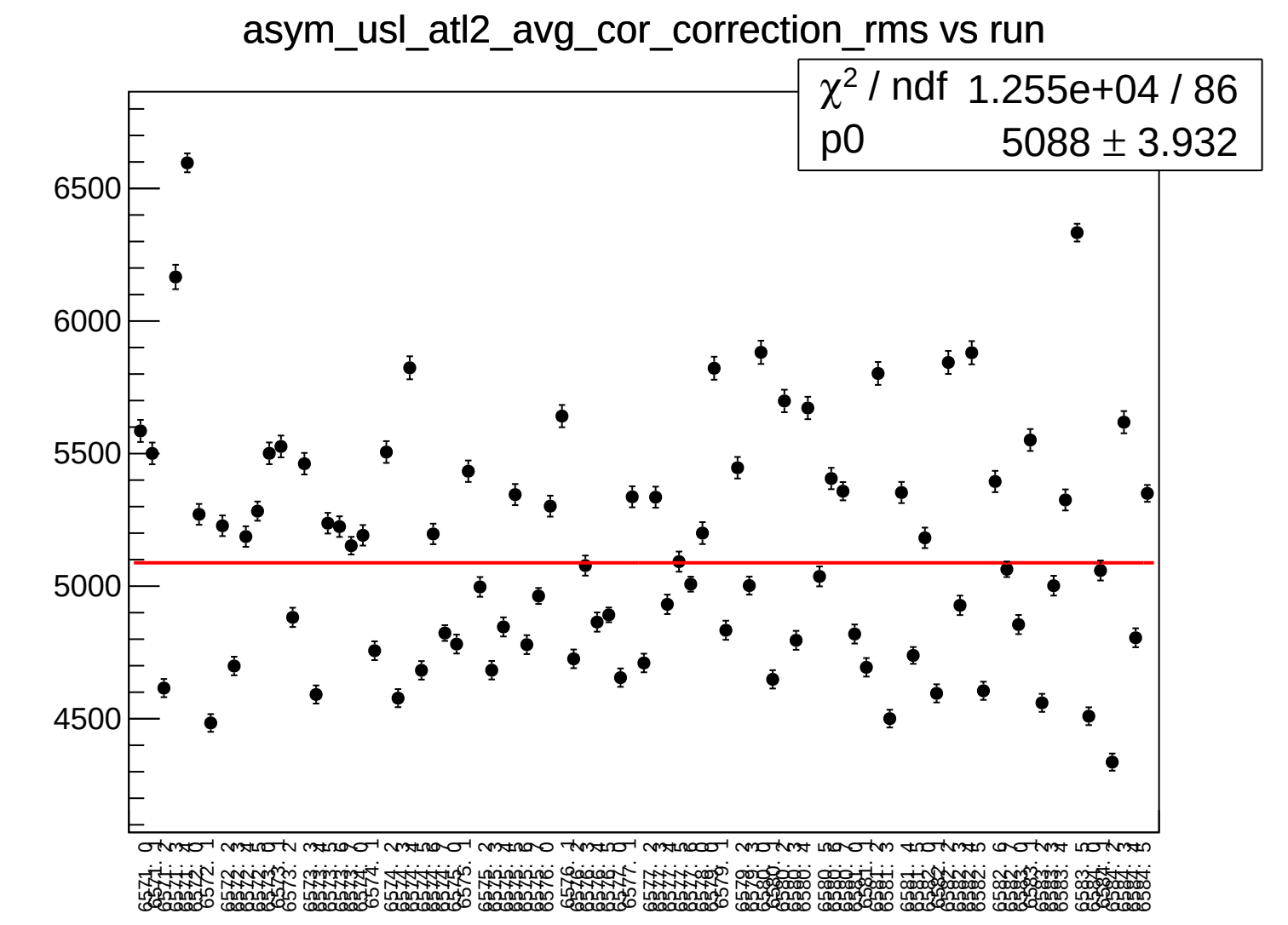

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 97.42 / 86
p0 2406 ± 1856
pull
Entries 87
Mean 930.7
Std Dev 0

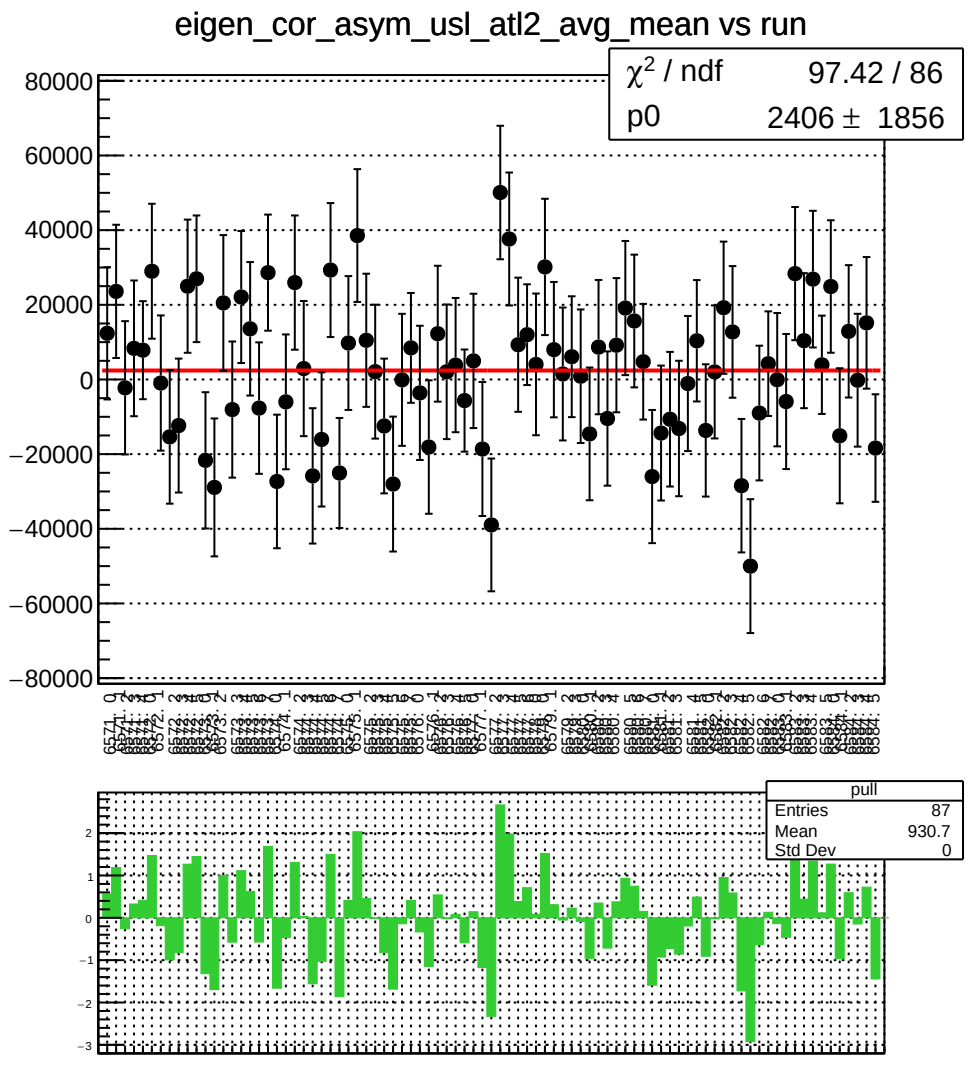

pull1D
Entries 87
Mean −0.00205
Std Dev 1.058

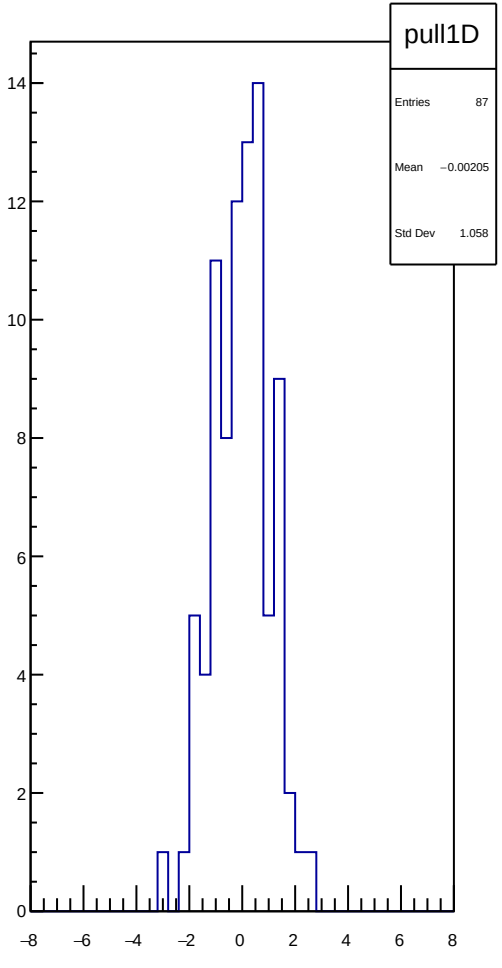

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 189.8 / 86
p0 1704 ± 1.312
1760
1740
1720
1700
1680
1660

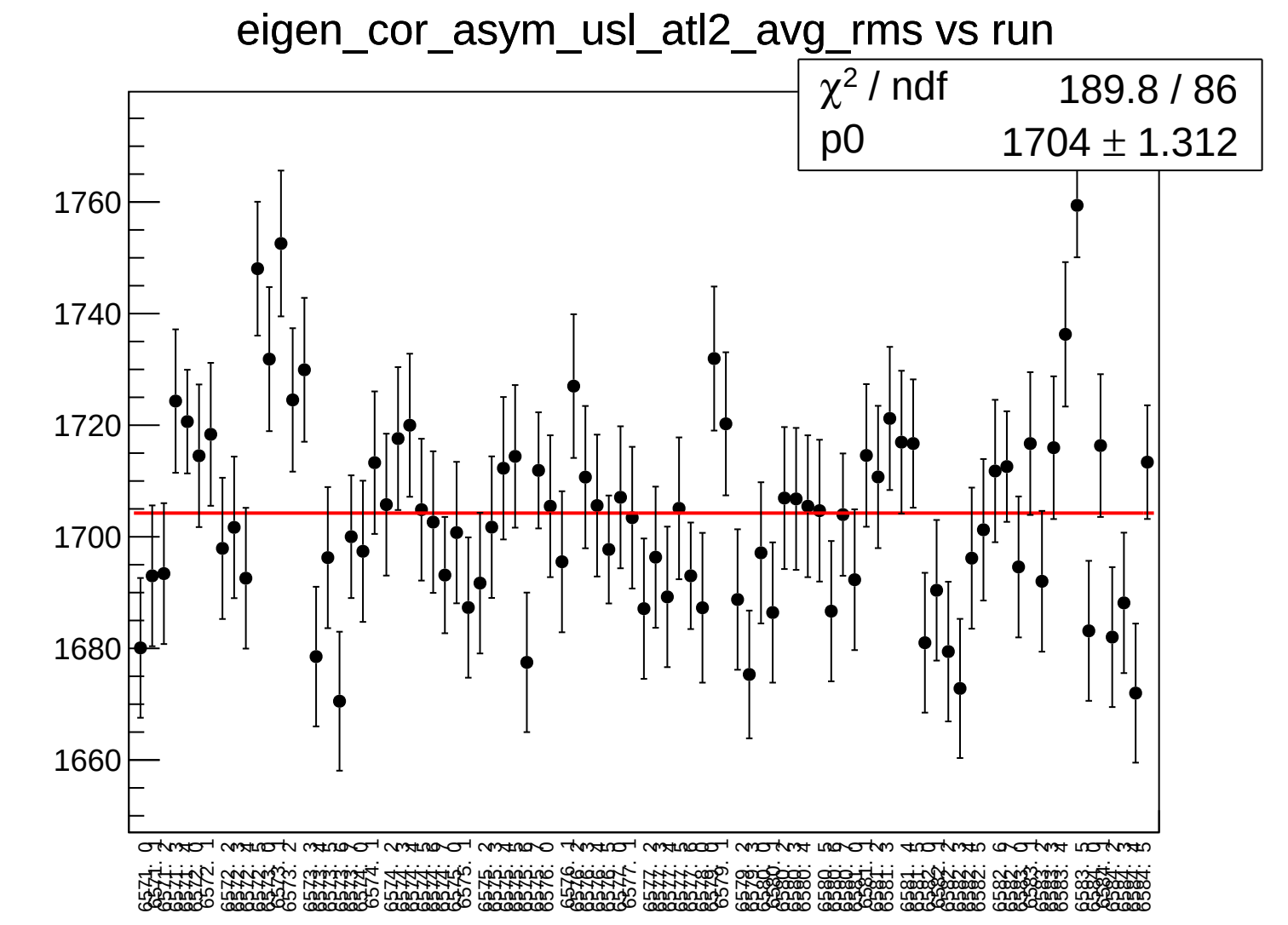

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.54 / 86
p0 3138 ± 5561
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −749.7
Std Dev 0
2
1
0
−1
−2

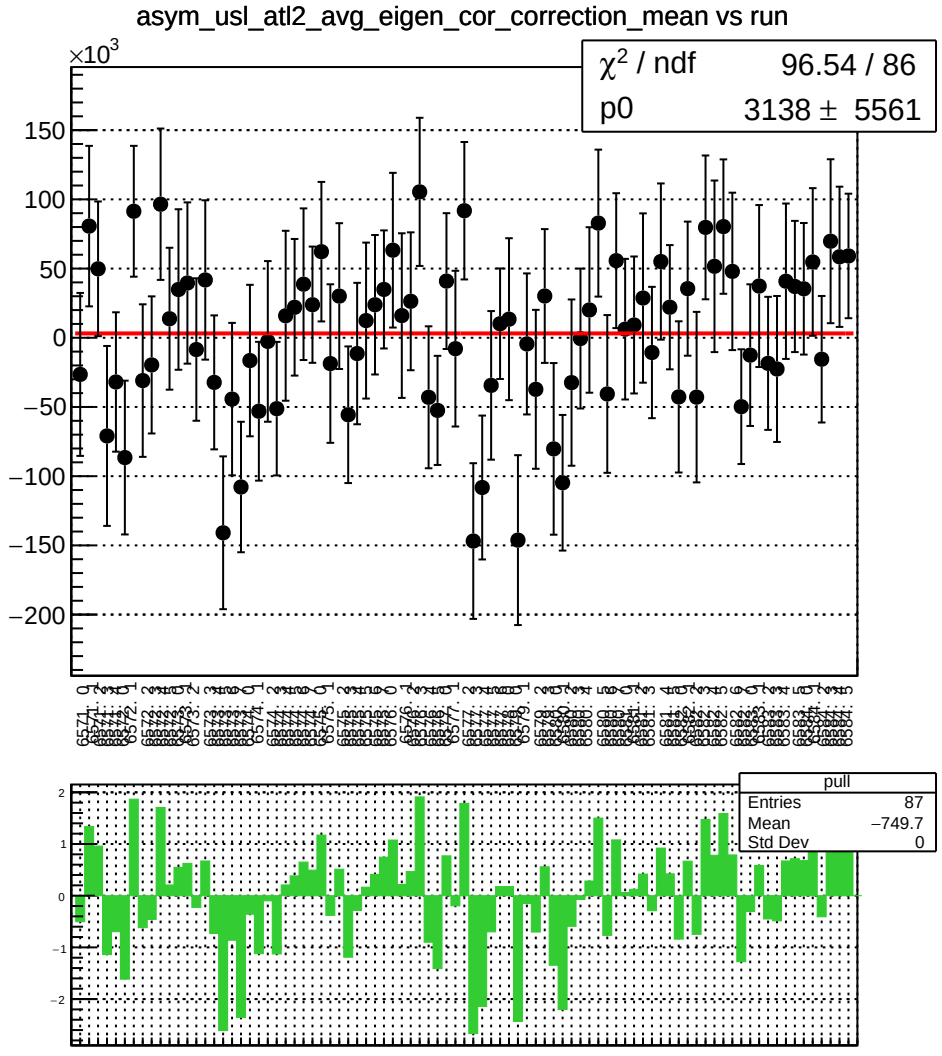

pull1D
Entries 87
Mean −0.005424
Std Dev 1.053
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

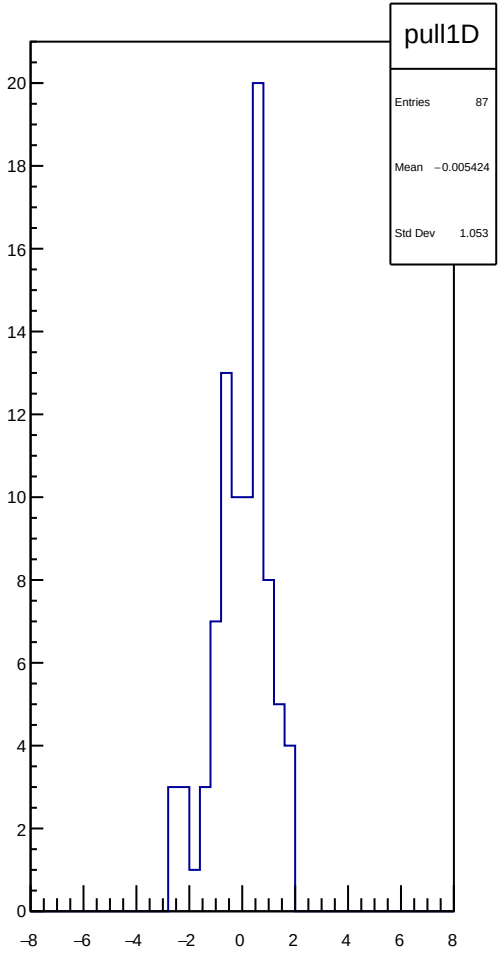

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.255e+04 / 86
p0 5088 ± 3.932
6500
6000
5500
5000
4500

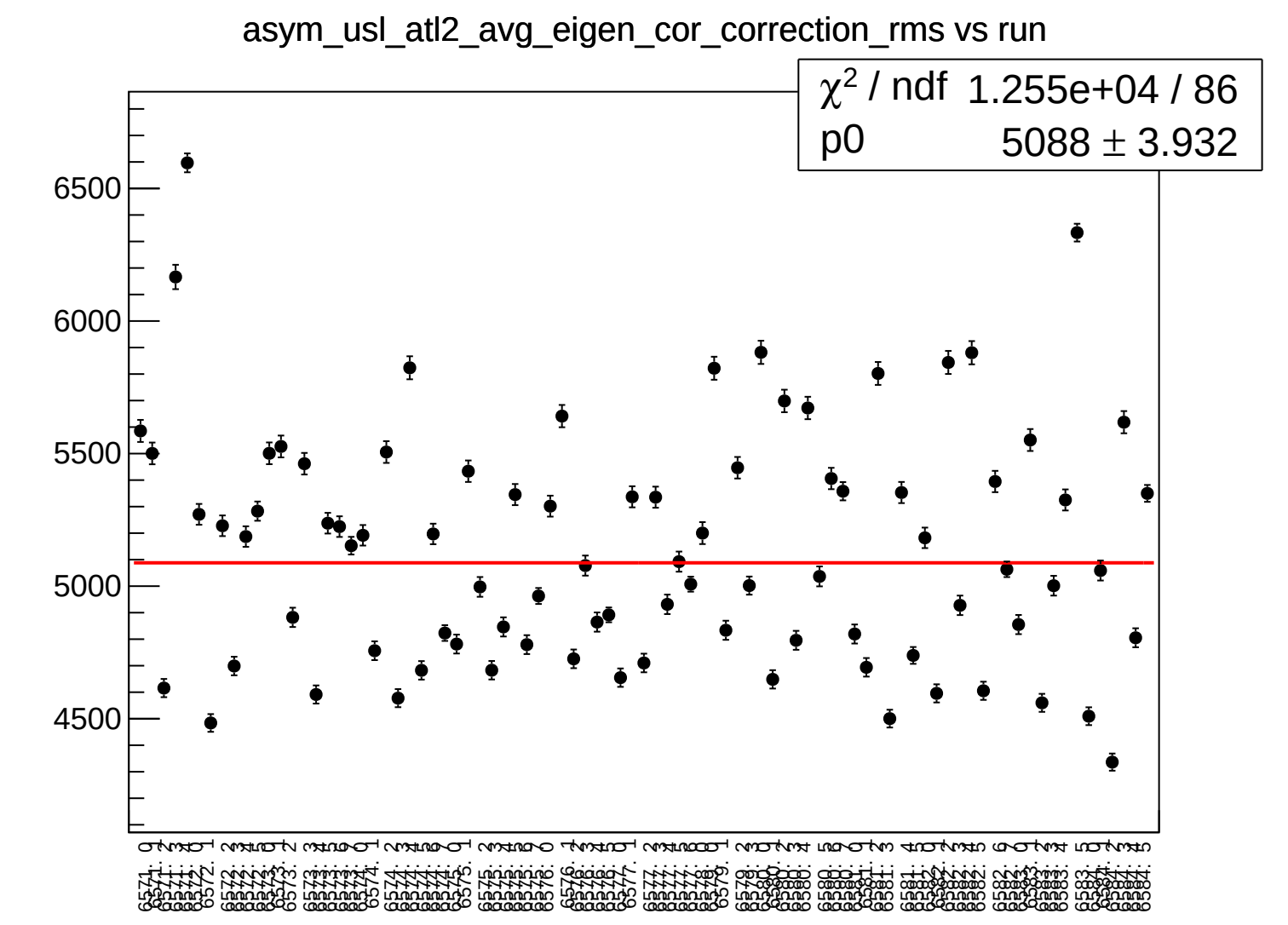

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 97.42 / 86
p0 2406 ± 1856
pull
Entries 87
Mean 930.7
Std Dev 0

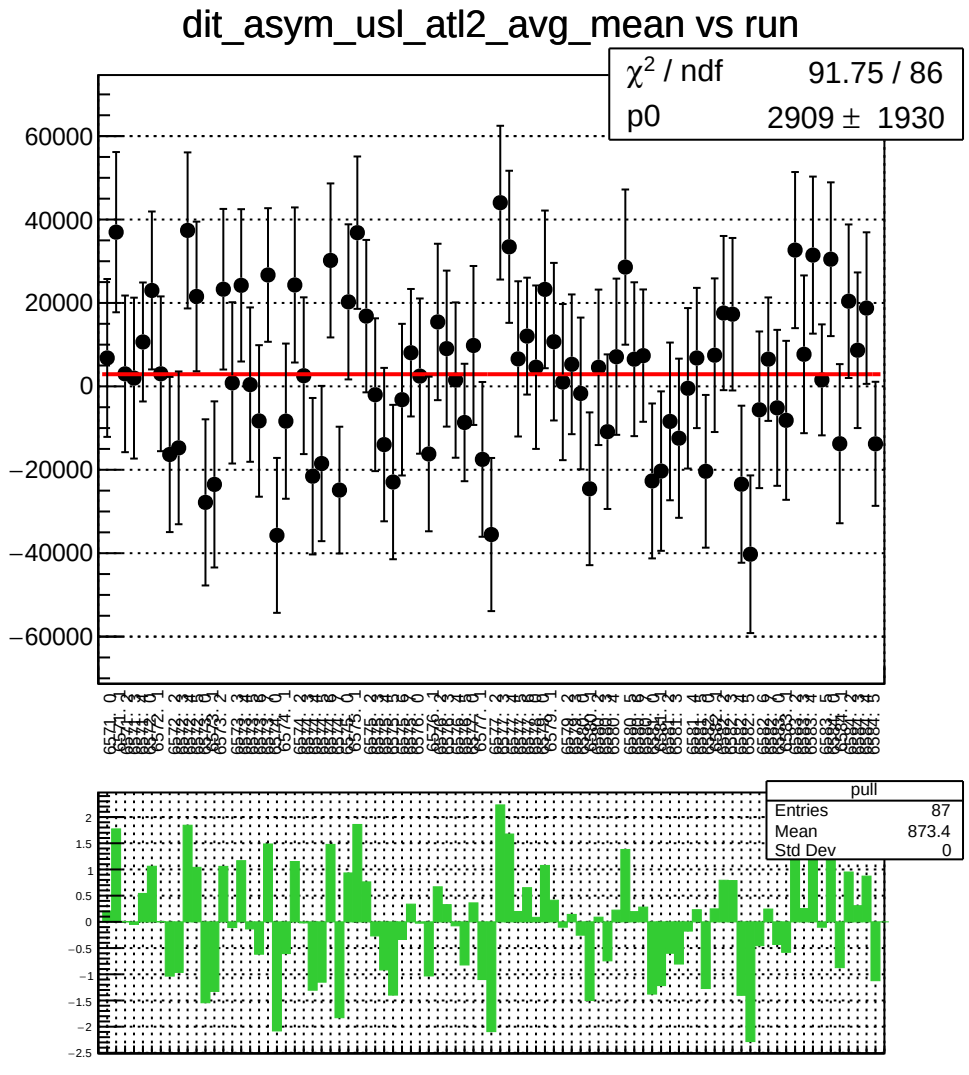

pull1D
Entries 87
Mean −0.00205
Std Dev 1.058

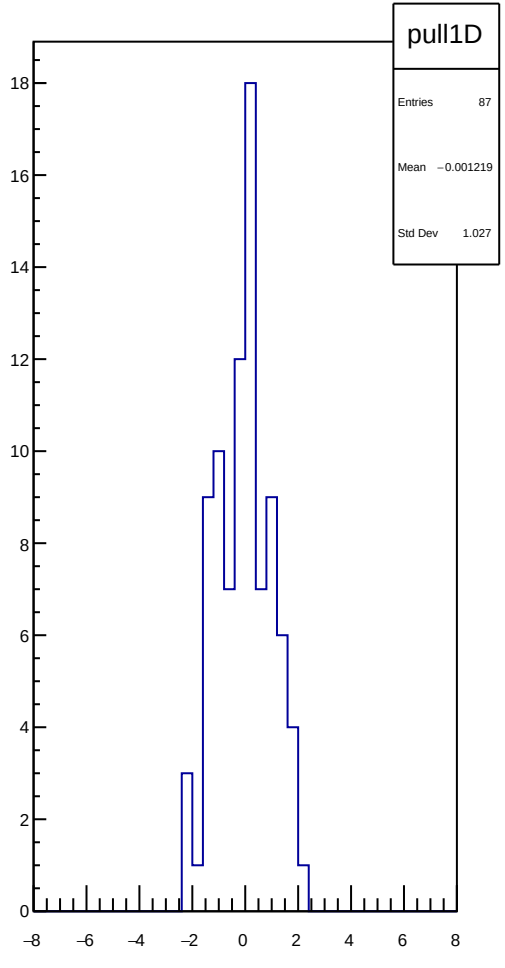

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 189.8 / 86
p0 1704 ± 1.312
1760
1740
1720
1700
1680
1660

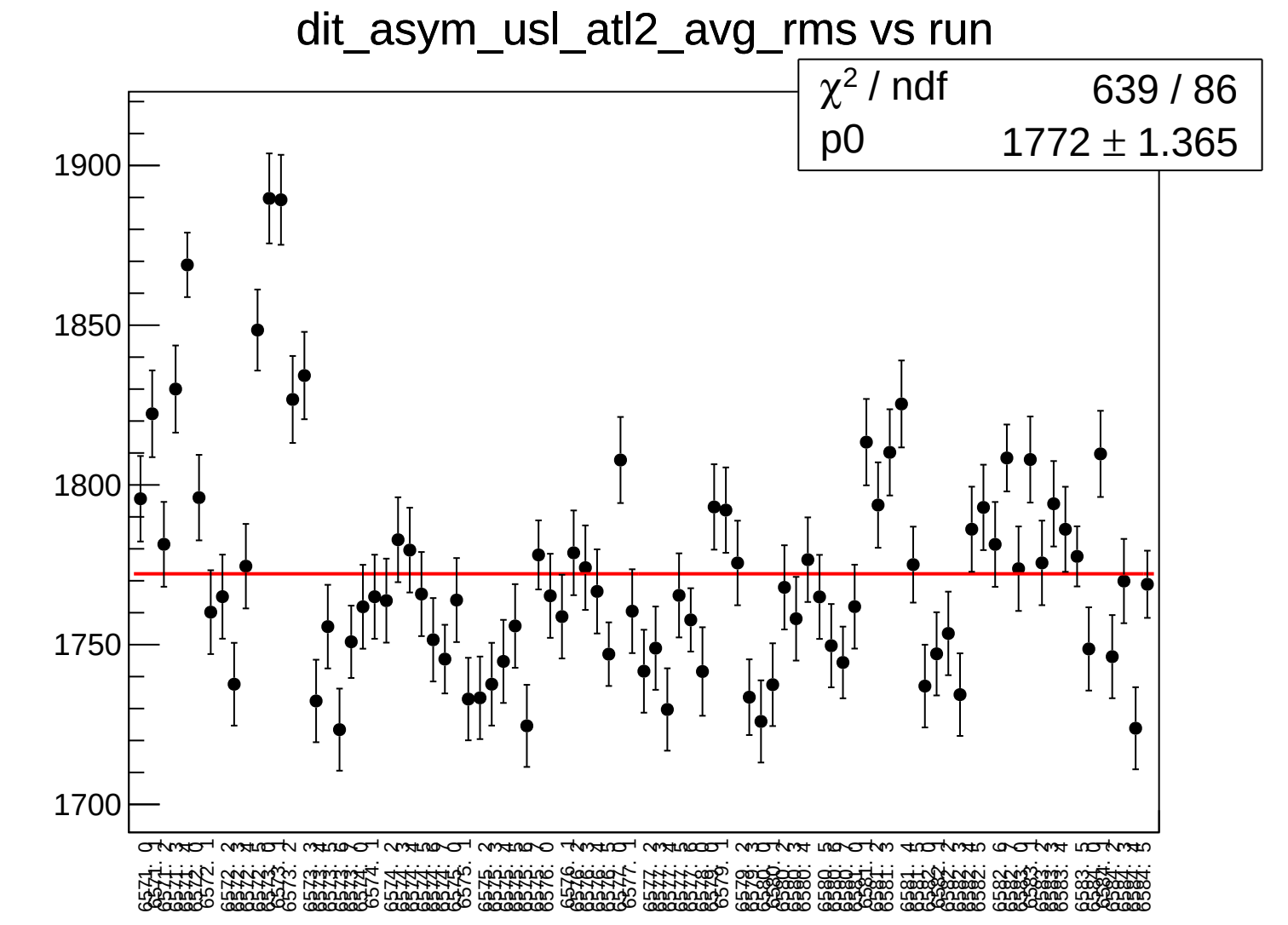

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.54 / 86
p0 3138 ± 5561
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −749.7
Std Dev 0
2
1
0
−1
−2

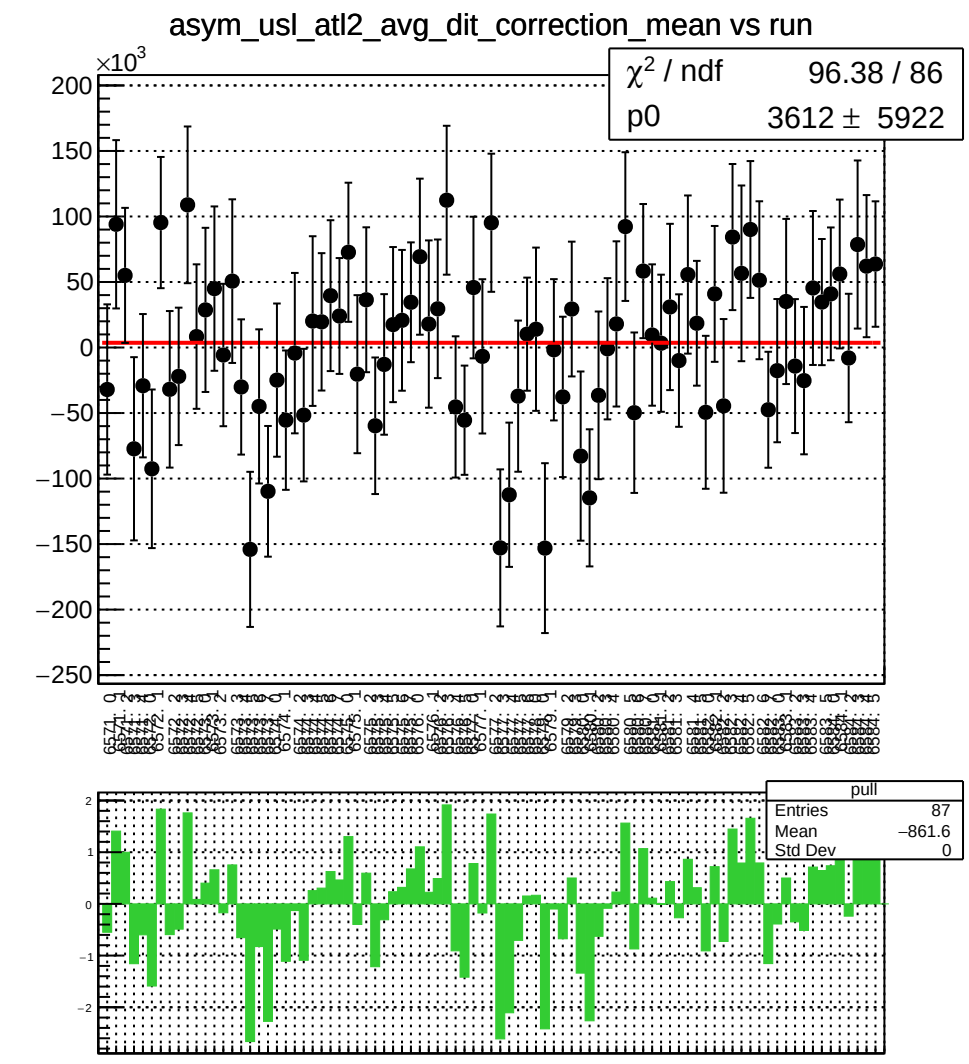

pull1D
Entries 87
Mean −0.005424
Std Dev 1.053
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

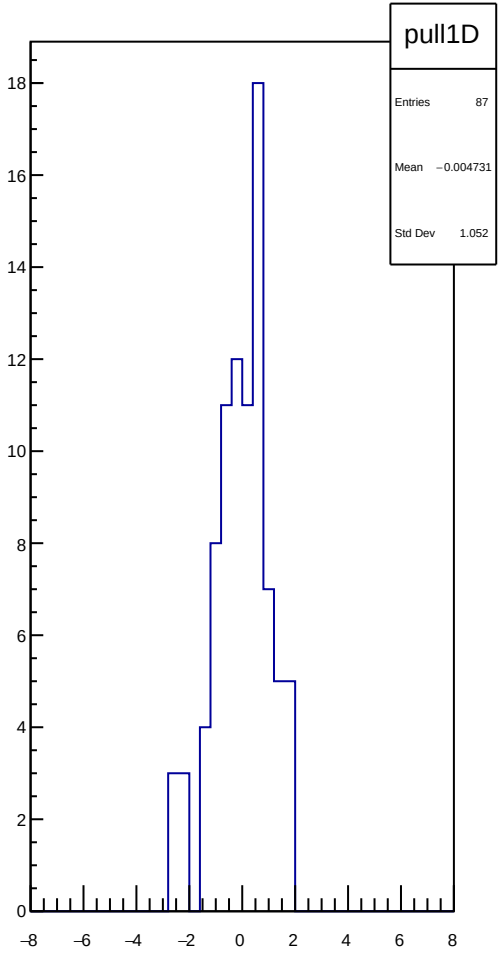

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.255e+04 / 86
p0 5088 ± 3.932
6500
6000
5500
5000
4500

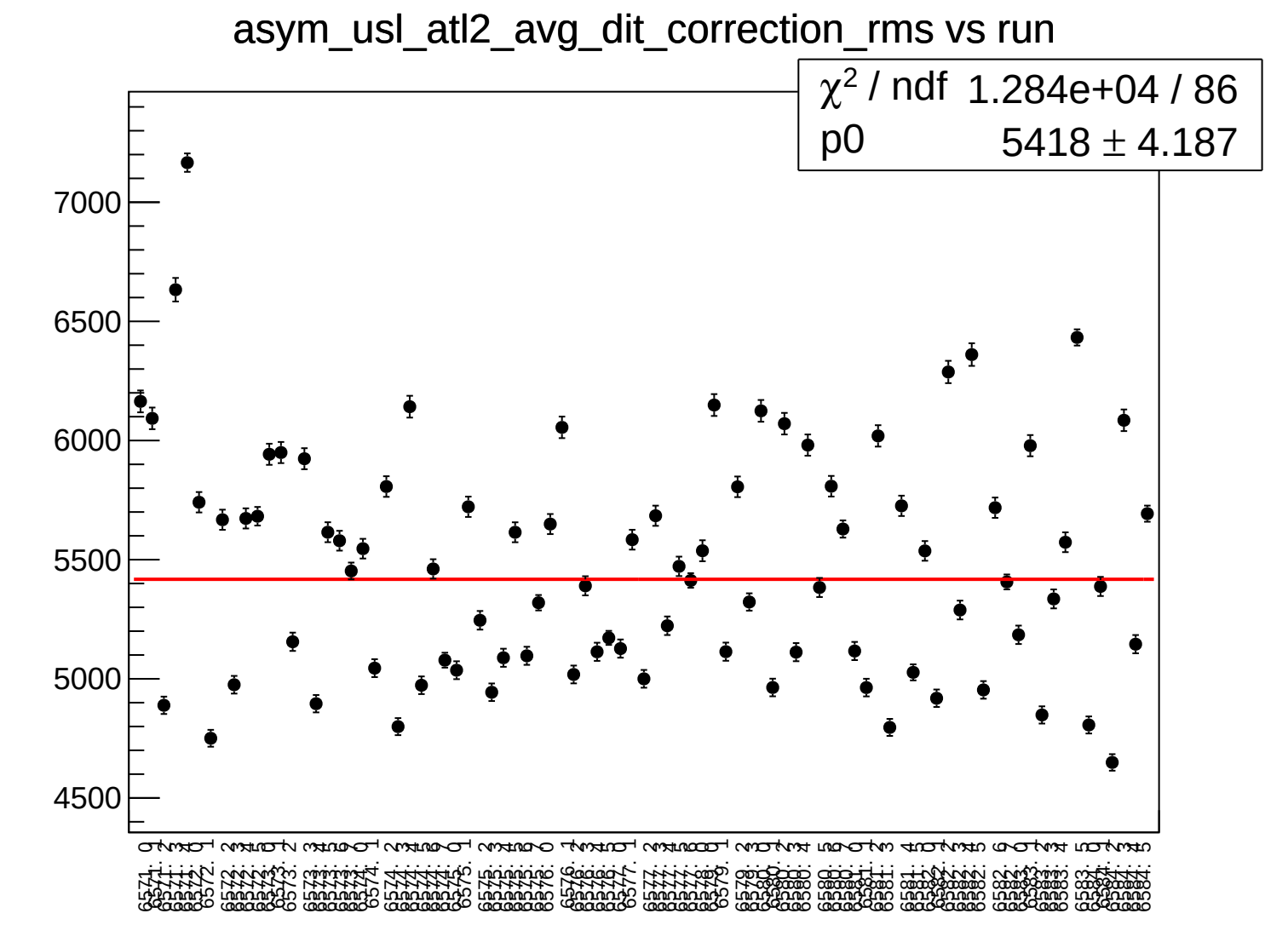

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.75 / 86
p0 2909 ± 1930
pull
Entries 87
Mean 873.4
Std Dev 0

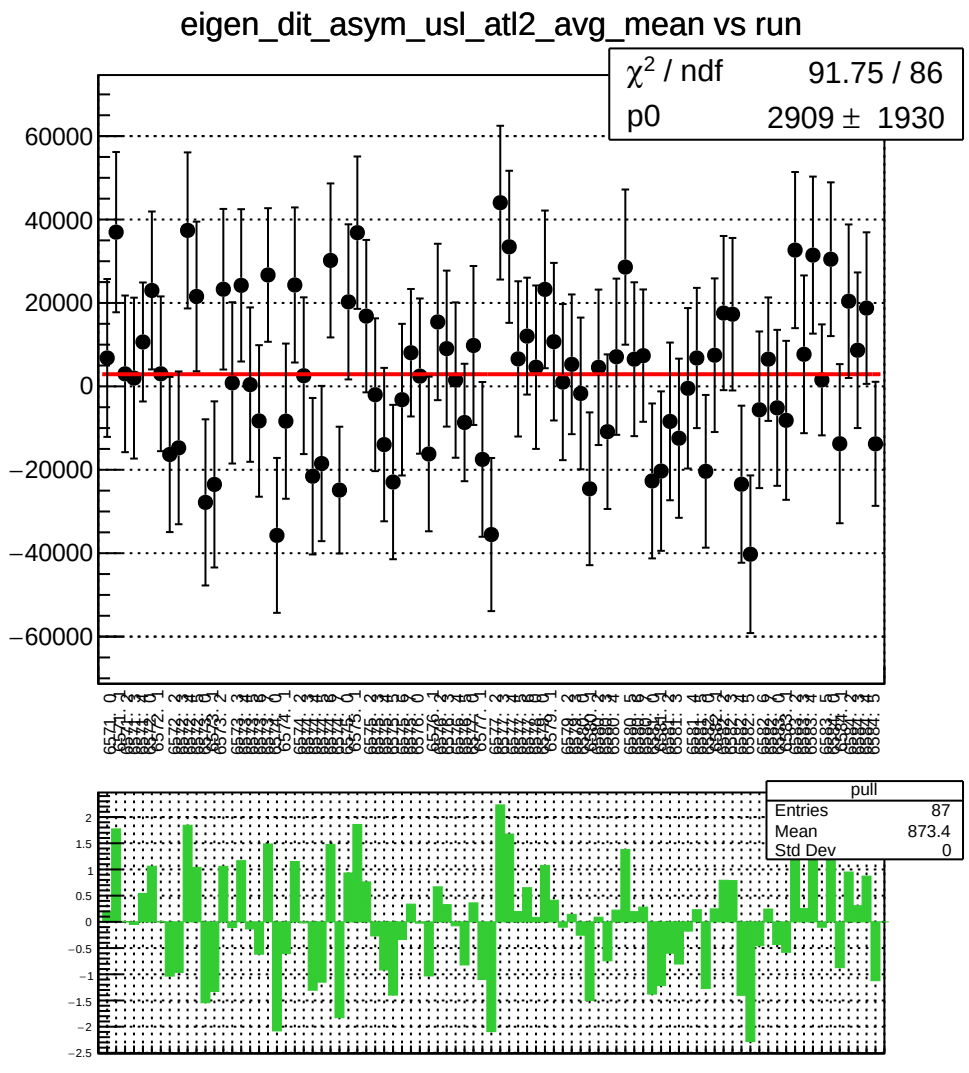

pull1D
Entries 87
Mean −0.001219
Std Dev 1.027

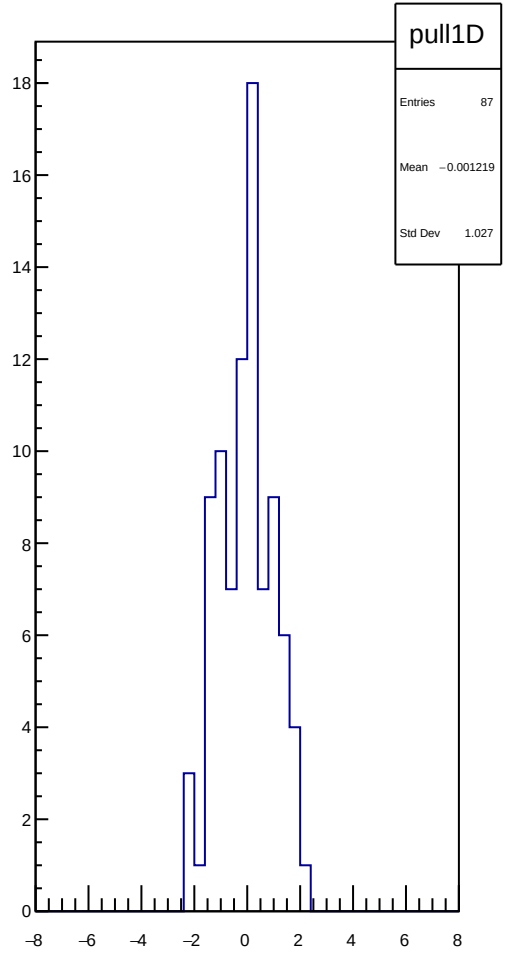

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 639 / 86
p0 1772 ± 1.365
1900
1850
1800
1750
1700

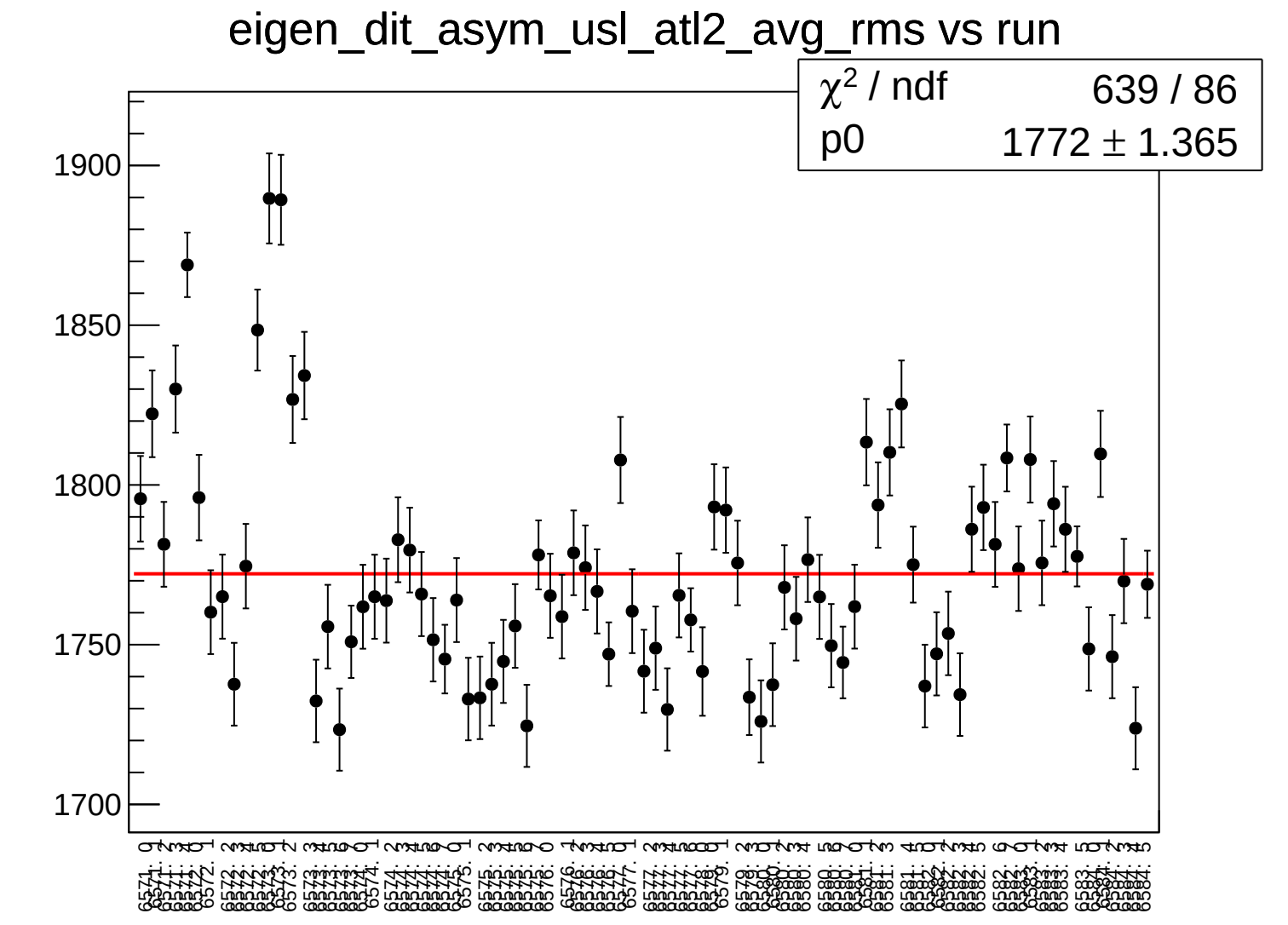

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.38 / 86
p0 3612 ± 5922
pull
Entries 87
Mean −861.6
Std Dev 0

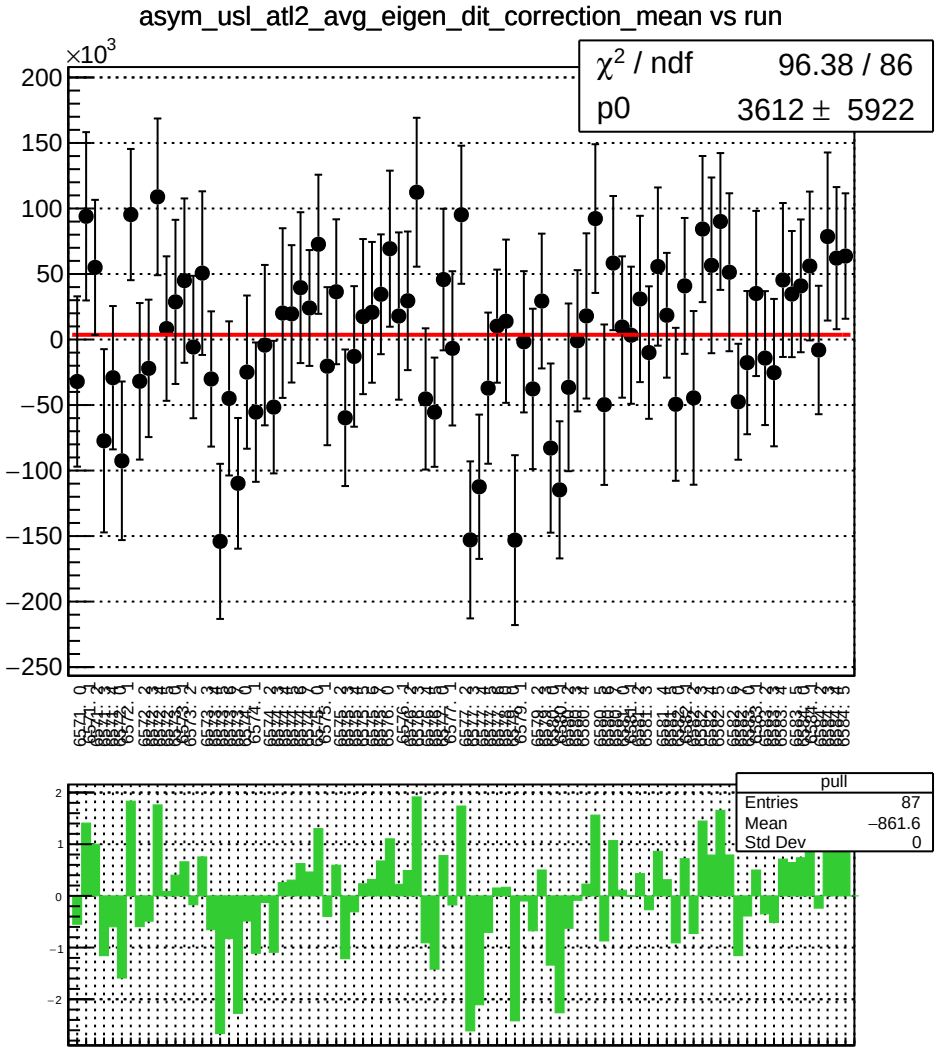

pull1D
Entries 87
Mean −0.004731
Std Dev 1.052

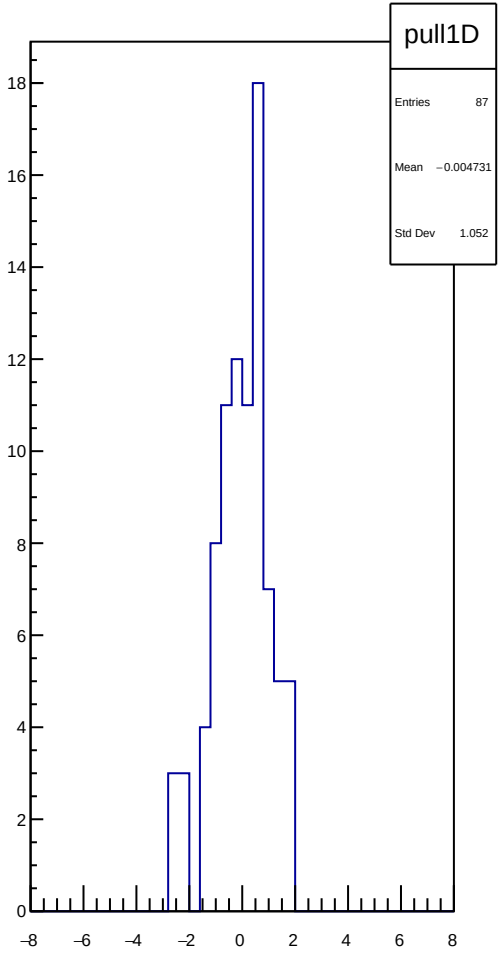

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.284e+04 / 86
p0 5418 ± 4.187
7000
6500
6000
5500
5000
4500

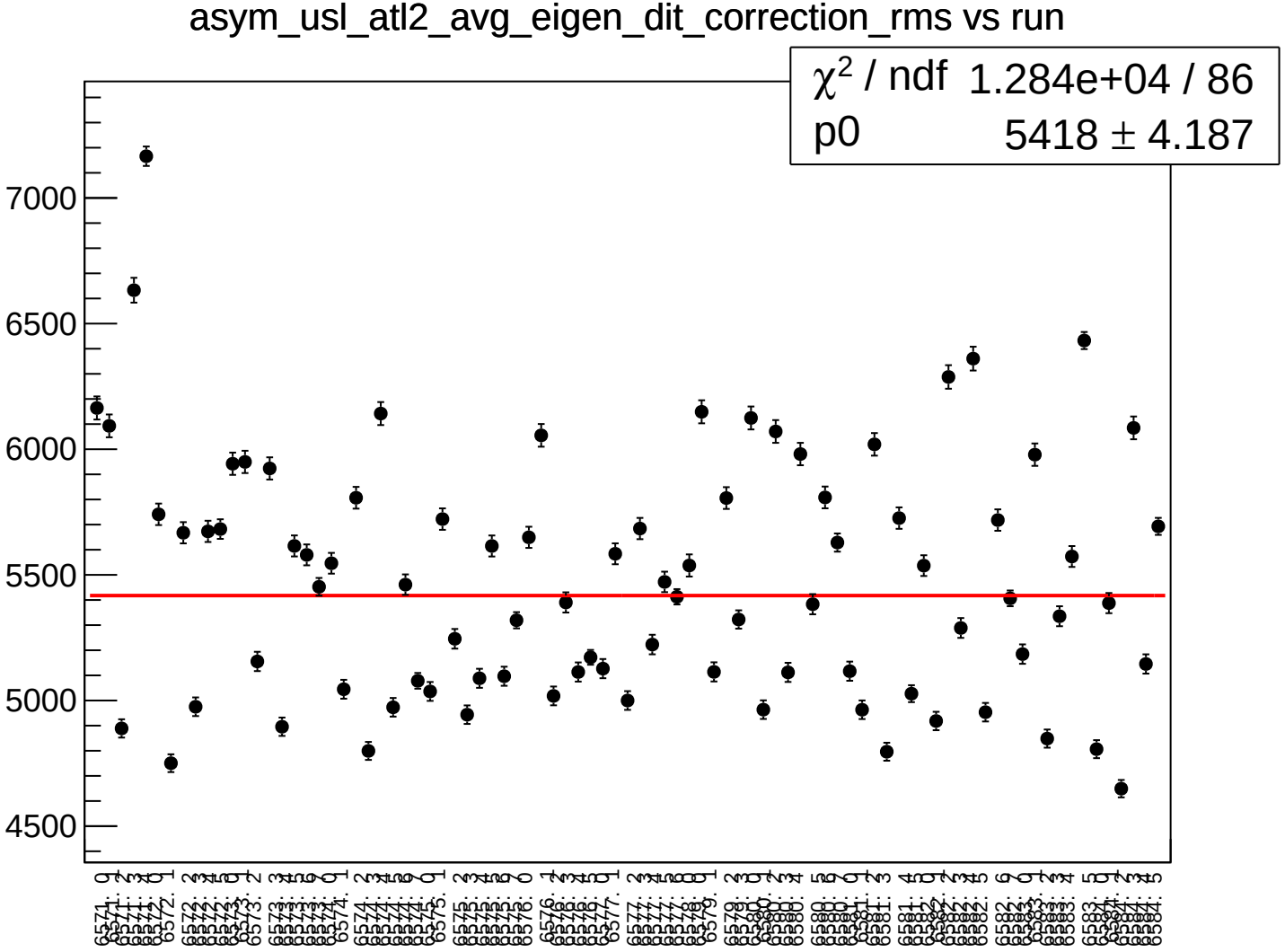

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.75 / 86
p0 2909 ± 1930
pull
Entries 87
Mean 873.4
Std Dev 0

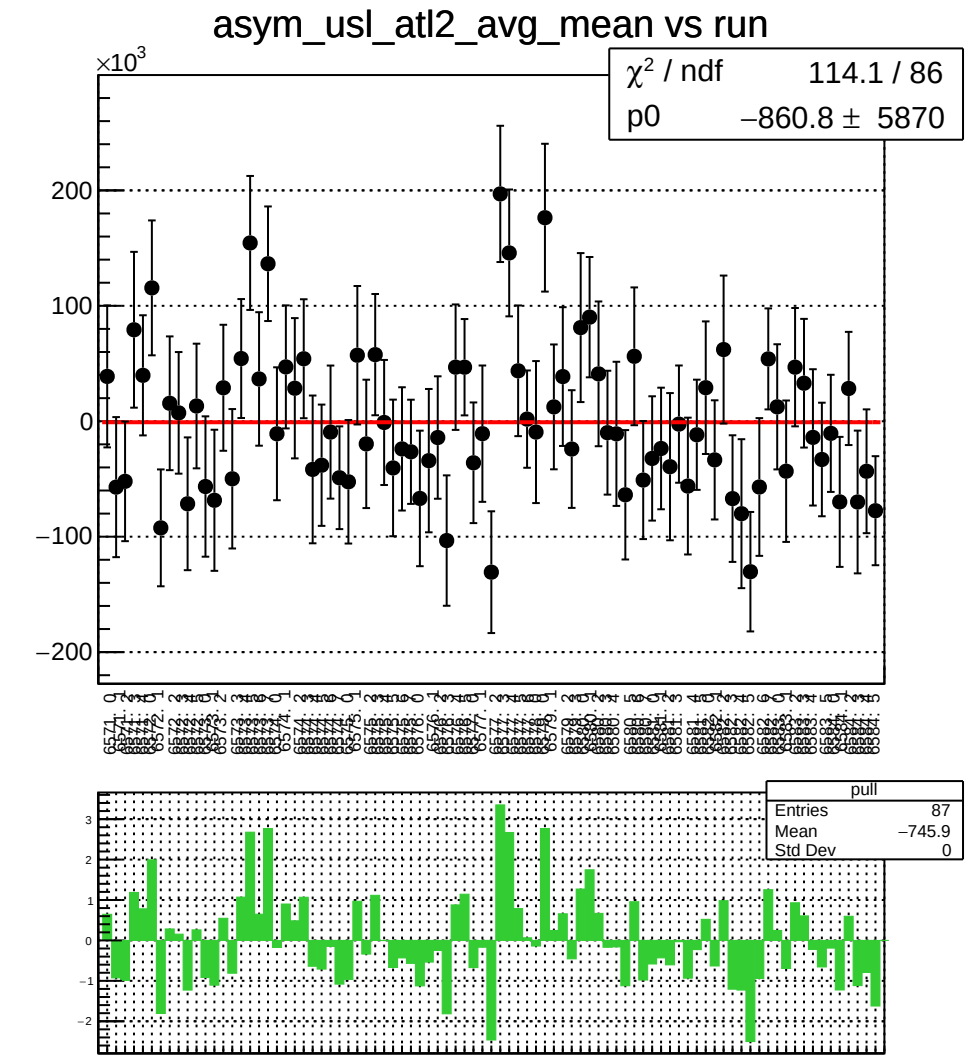

pull1D
Entries 87
Mean −0.001219
Std Dev 1.027

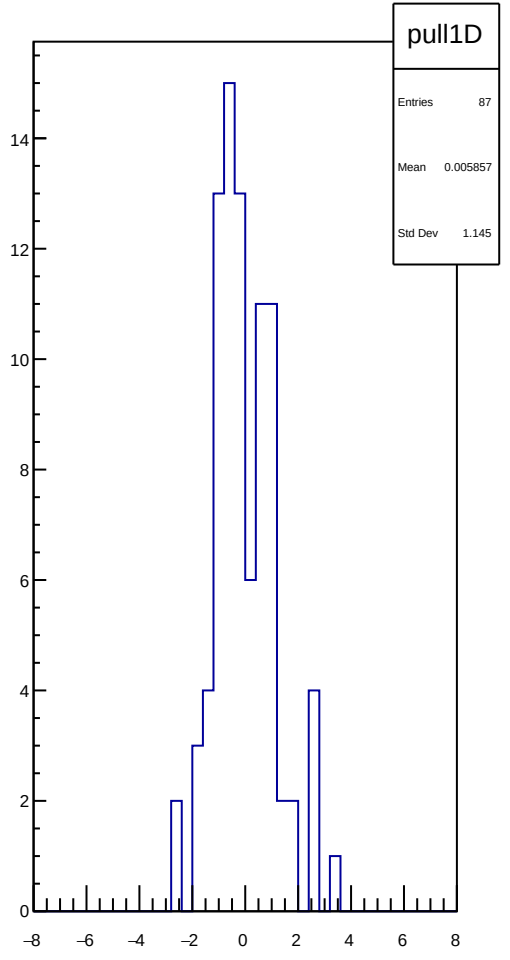

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 639 / 86
p0 1772 ± 1.365
1900
1850
1800
1750
1700

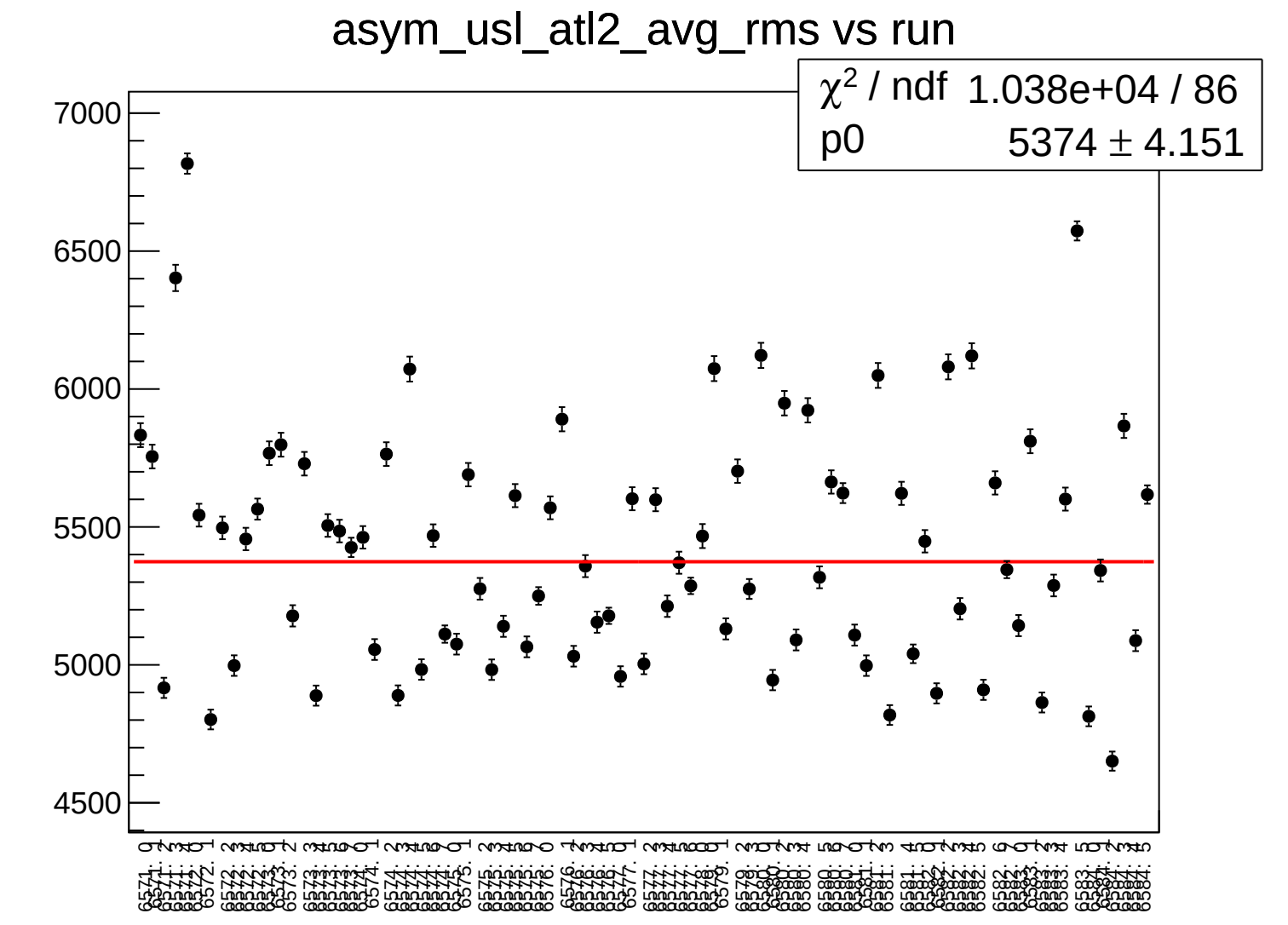

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.38 / 86
p0 3612 ± 5922
pull
Entries 87
Mean −861.6
Std Dev 0

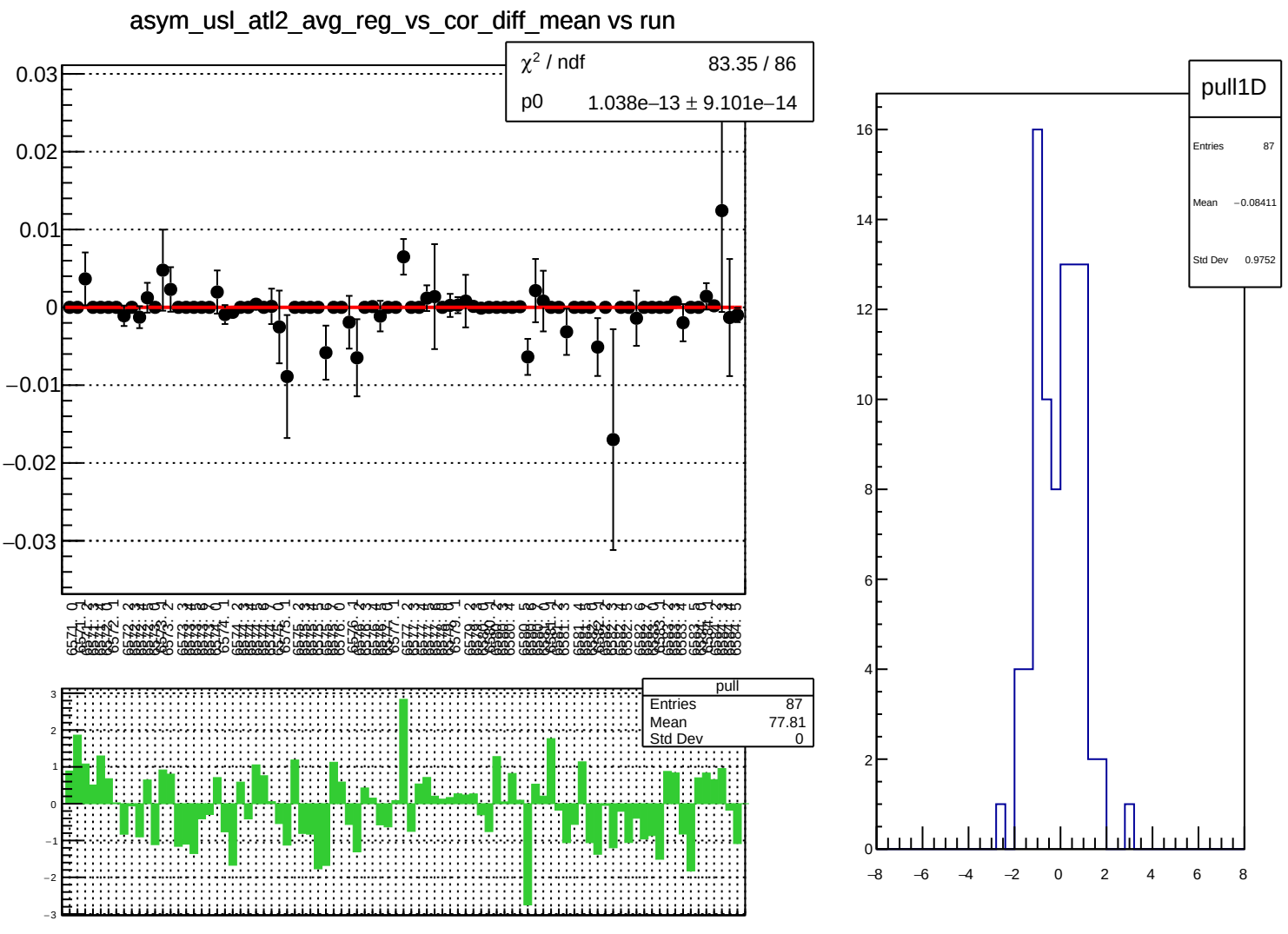

pull1D
Entries 87
Mean −0.004731
Std Dev 1.052

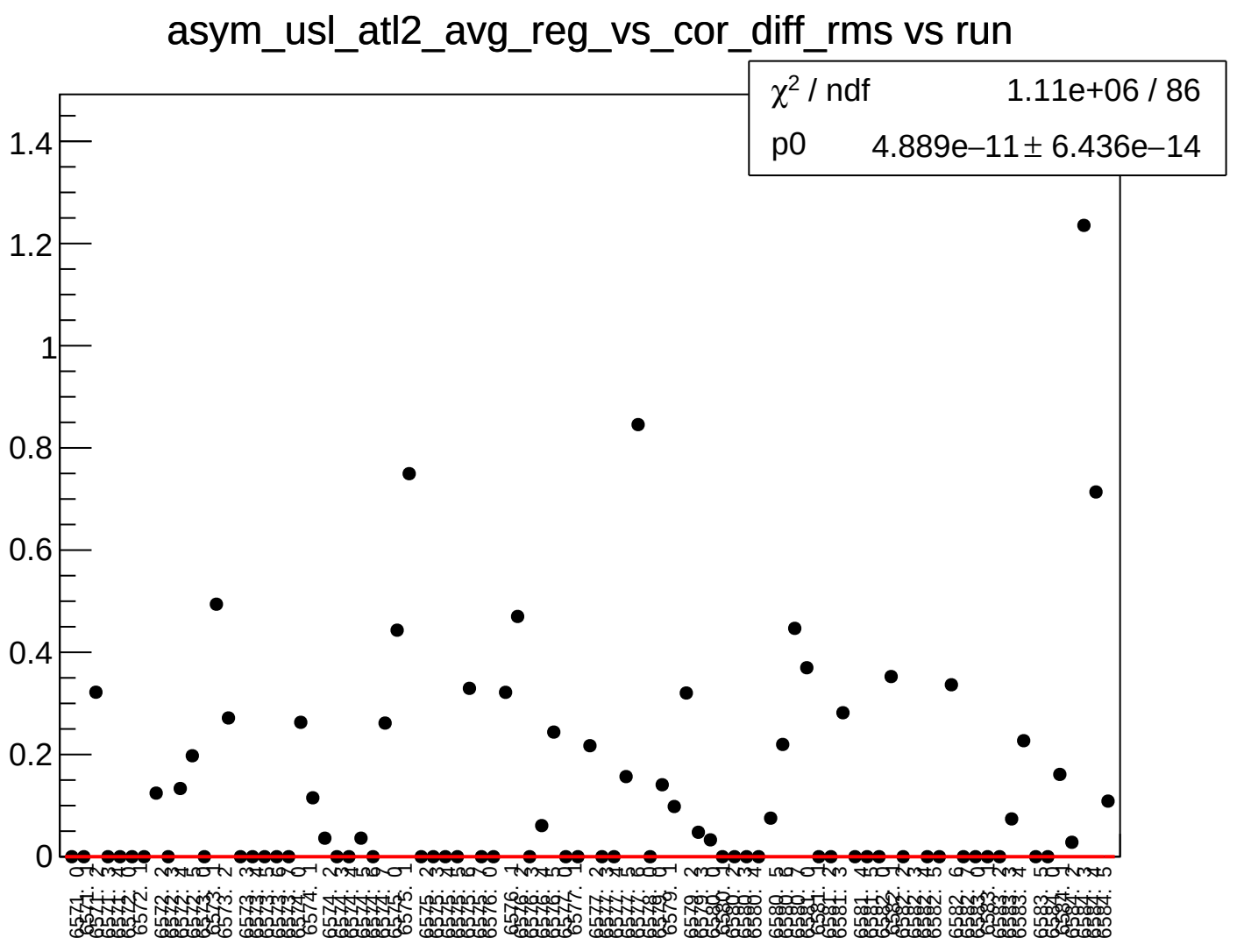

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.284e+04 / 86
p0 5418 ± 4.187
7000
6500
6000
5500
5000
4500

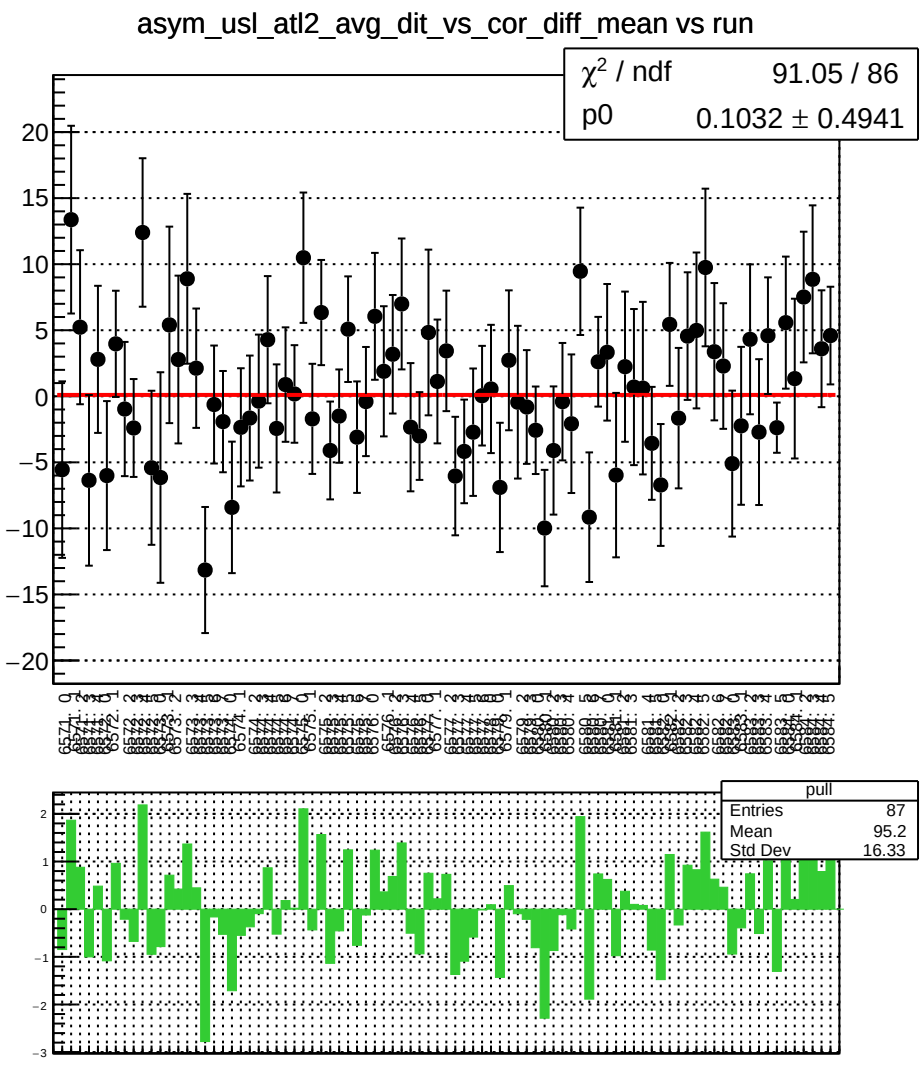

asym_usl_atl2_avg_mean vs run
χ² / ndf 114.1 / 86
p0 −860.8 ± 5870
×10³
200
100
0
−100
−200
pull
Entries 87
Mean −745.9
Std Dev 0
3
2
1
0
−1
−2

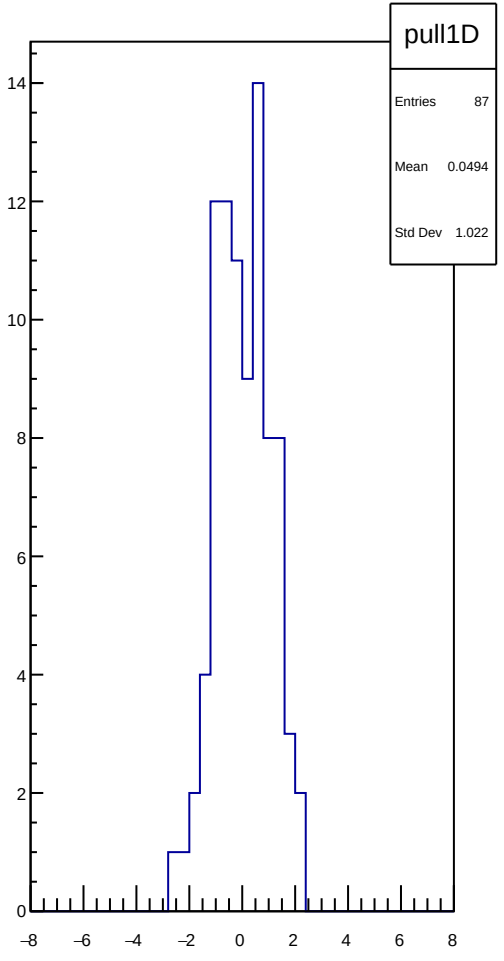

pull1D
Entries 87
Mean 0.005857
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

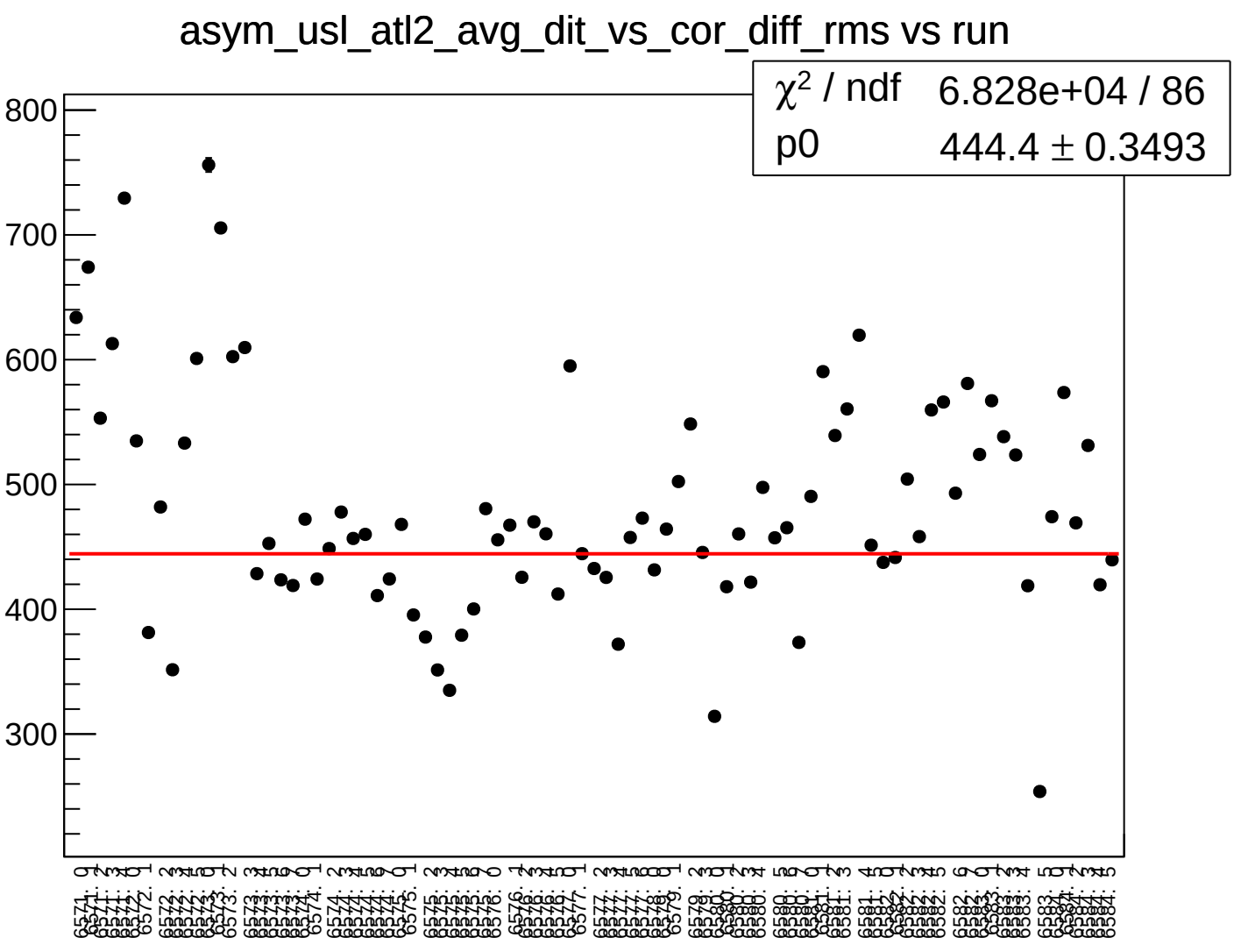

asym_usl_atl2_avg_rms vs run
χ² / ndf 1.038e+04 / 86
p0 5374 ± 4.151
7000
6500
6000
5500
5000
4500

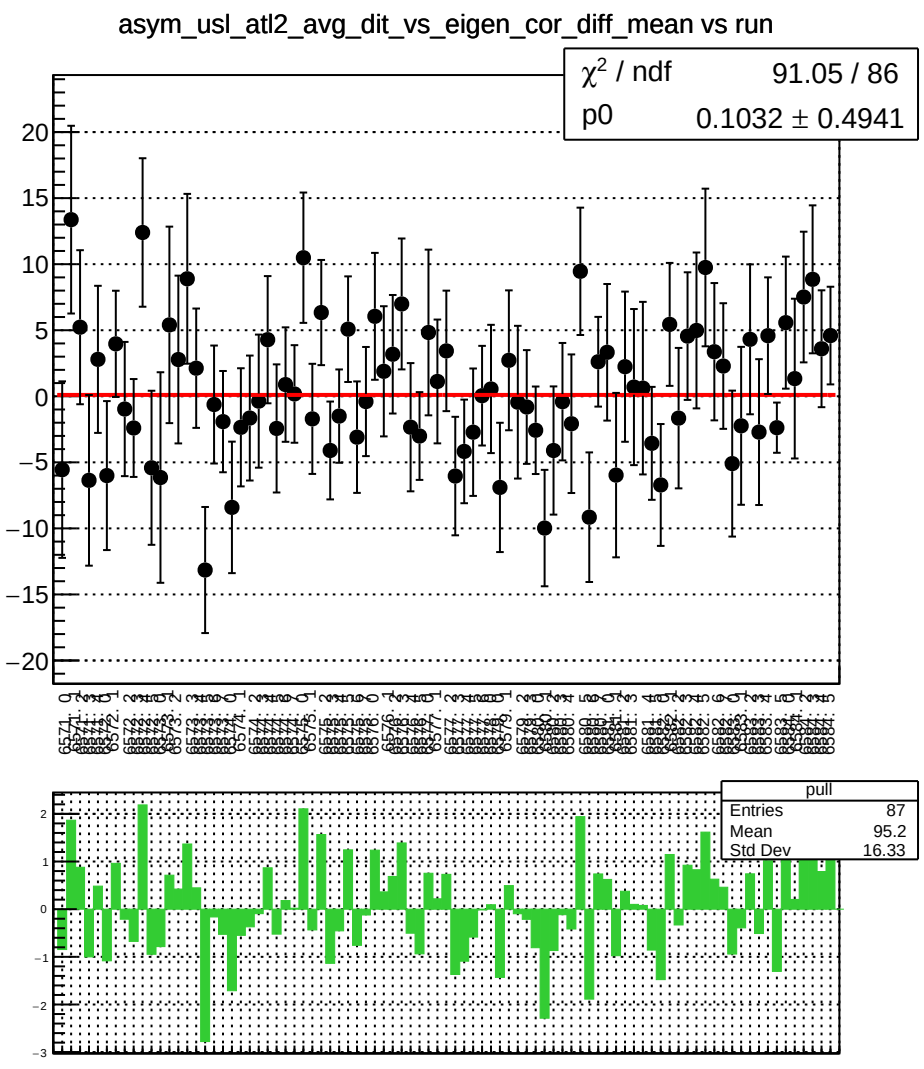

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.35 / 86
p0 1.038e−13 ± 9.101e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 77.81
Std Dev 0
pull1D
Entries 87
Mean −0.08411
Std Dev 0.9752
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

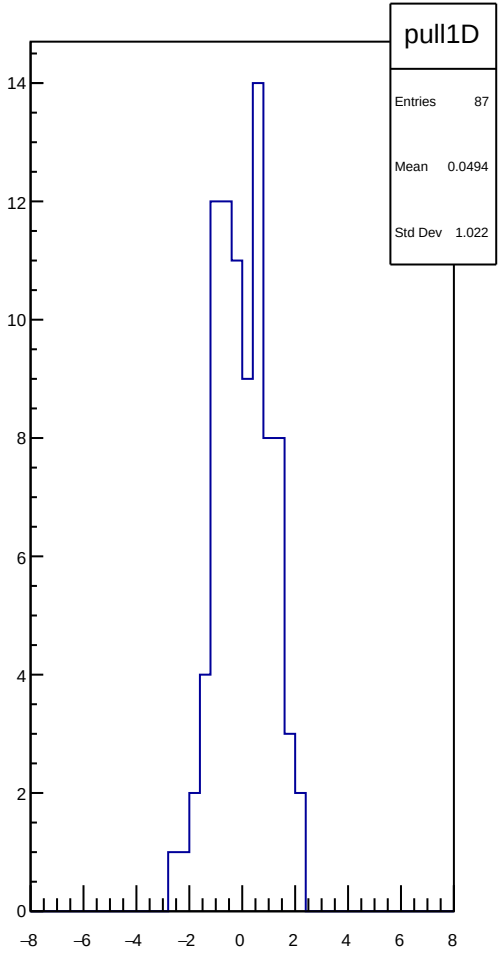

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.11e+06 / 86
p0 4.889e−11 ± 6.436e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

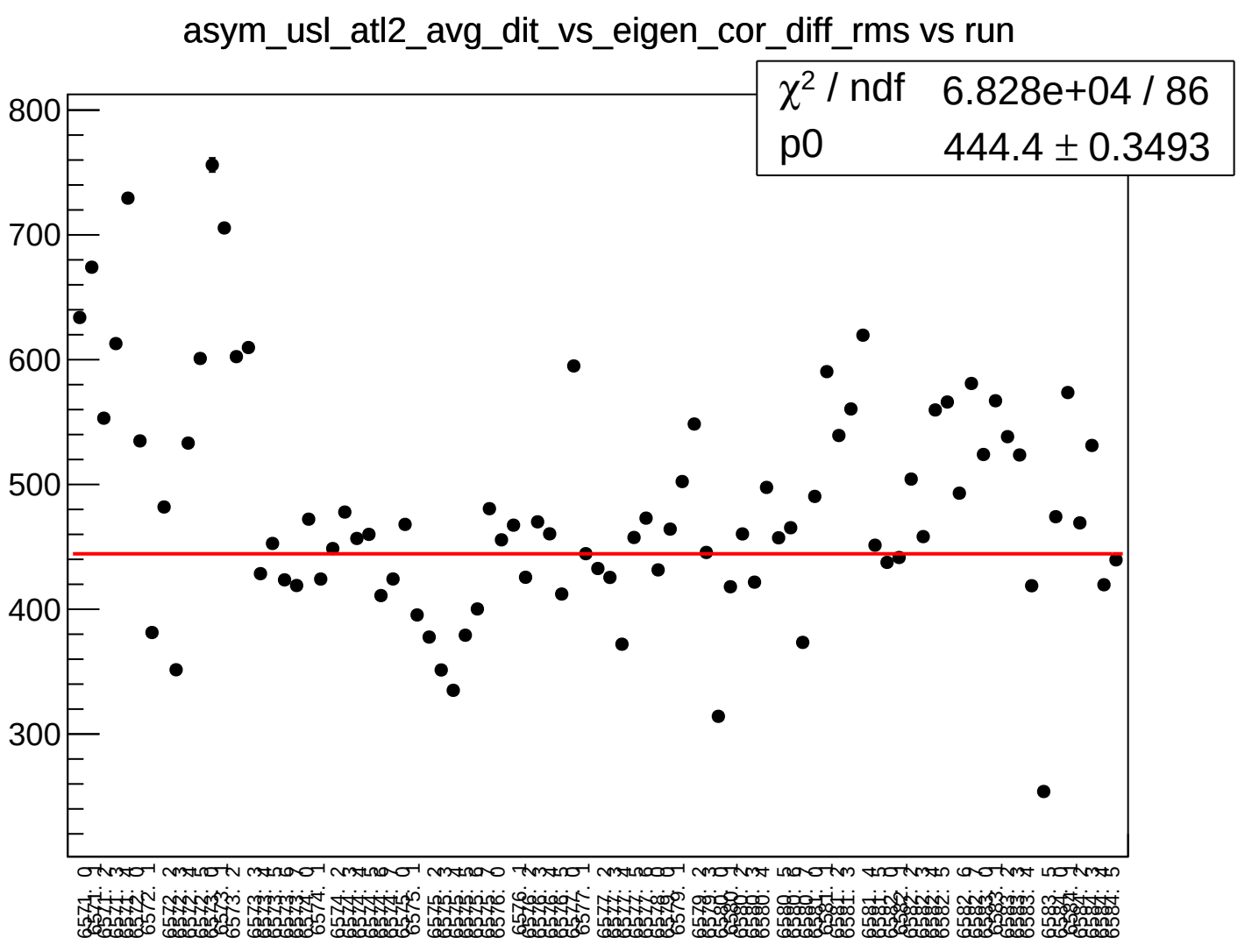

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.05 / 86
p0 0.1032 ± 0.4941
pull
Entries 87
Mean 95.2
Std Dev 16.33

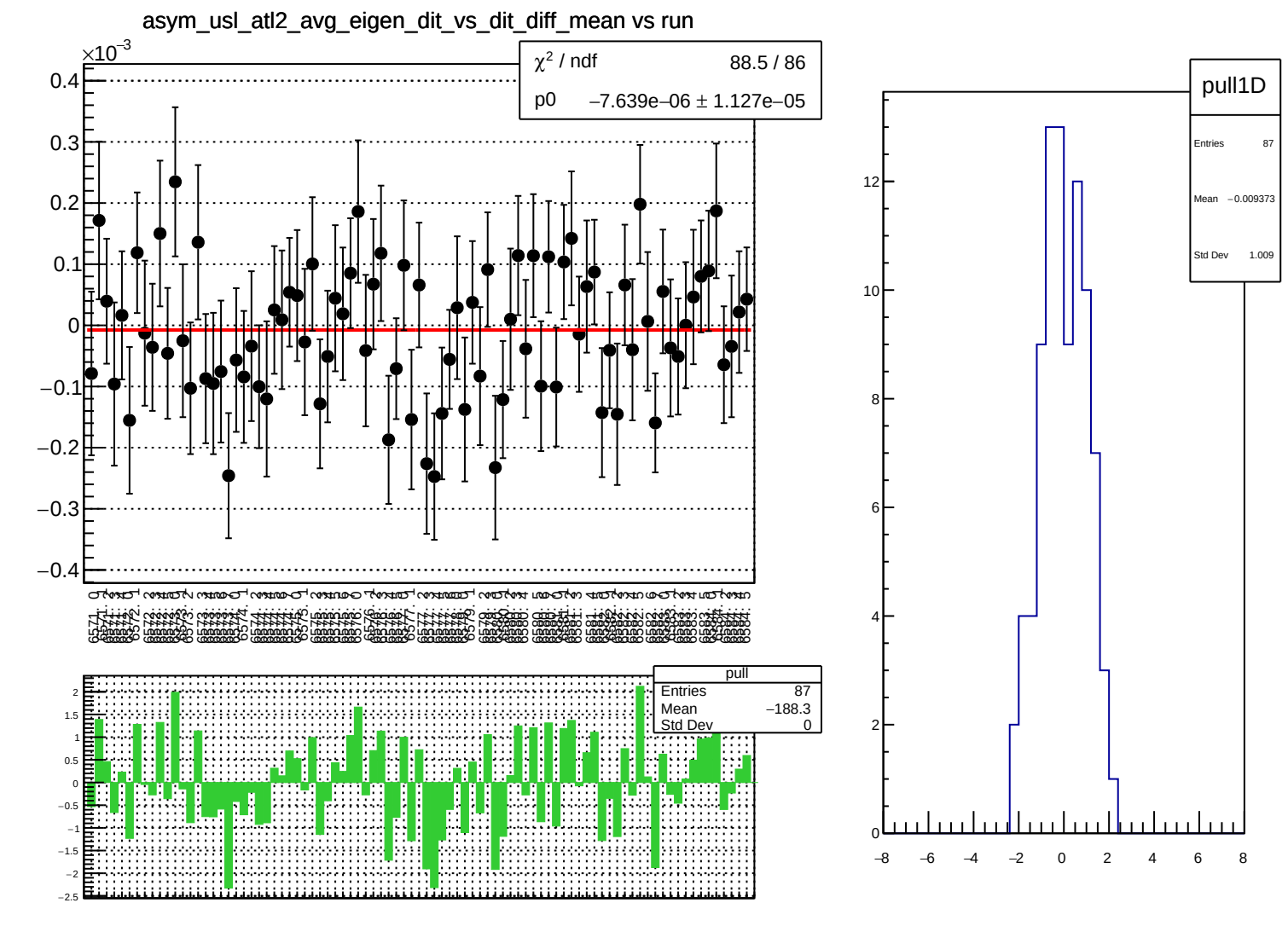

pull1D
Entries 87
Mean 0.0494
Std Dev 1.022

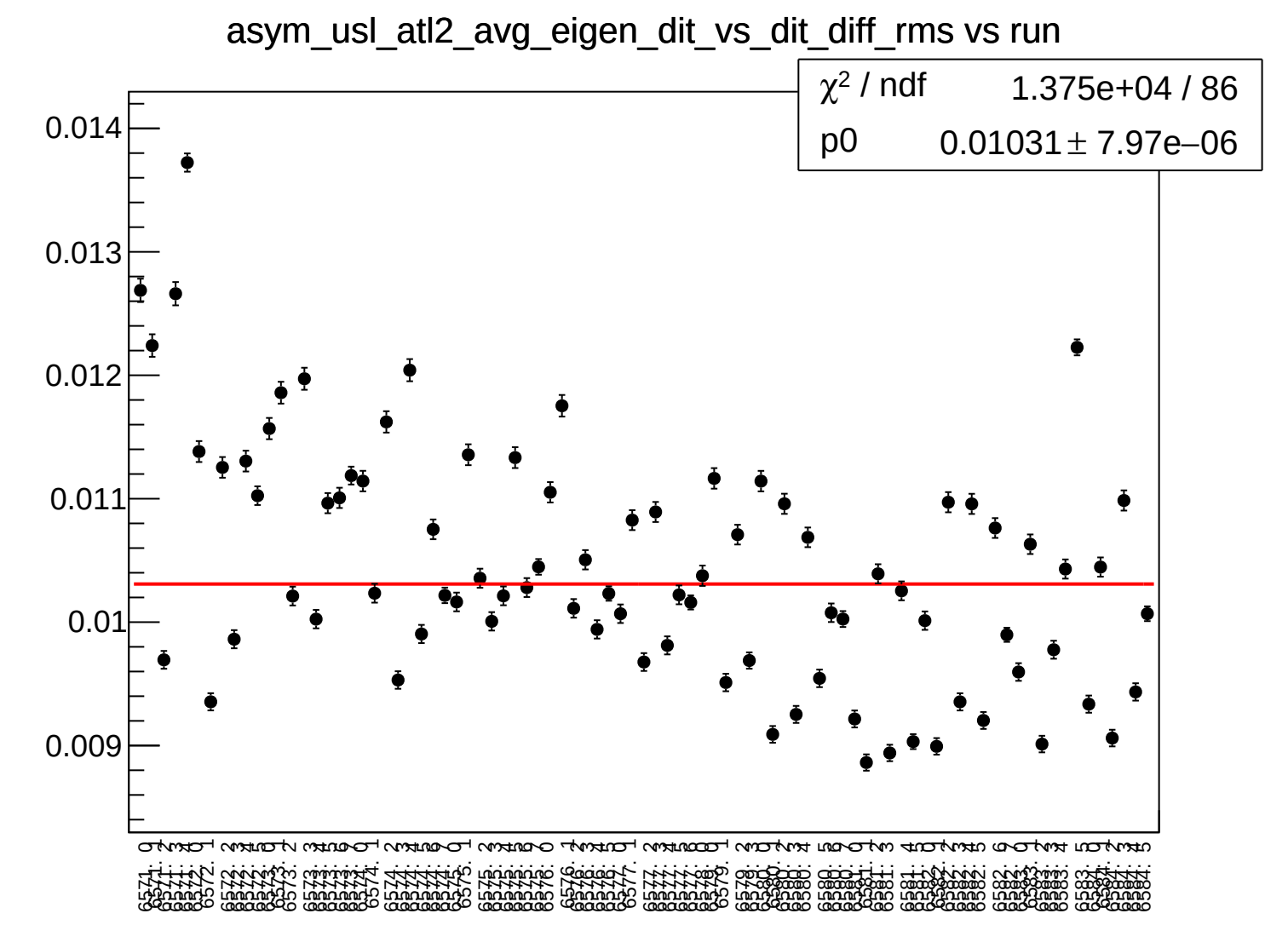

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 86
p0 444.4 ± 0.3493
800
700
600
500
400
300

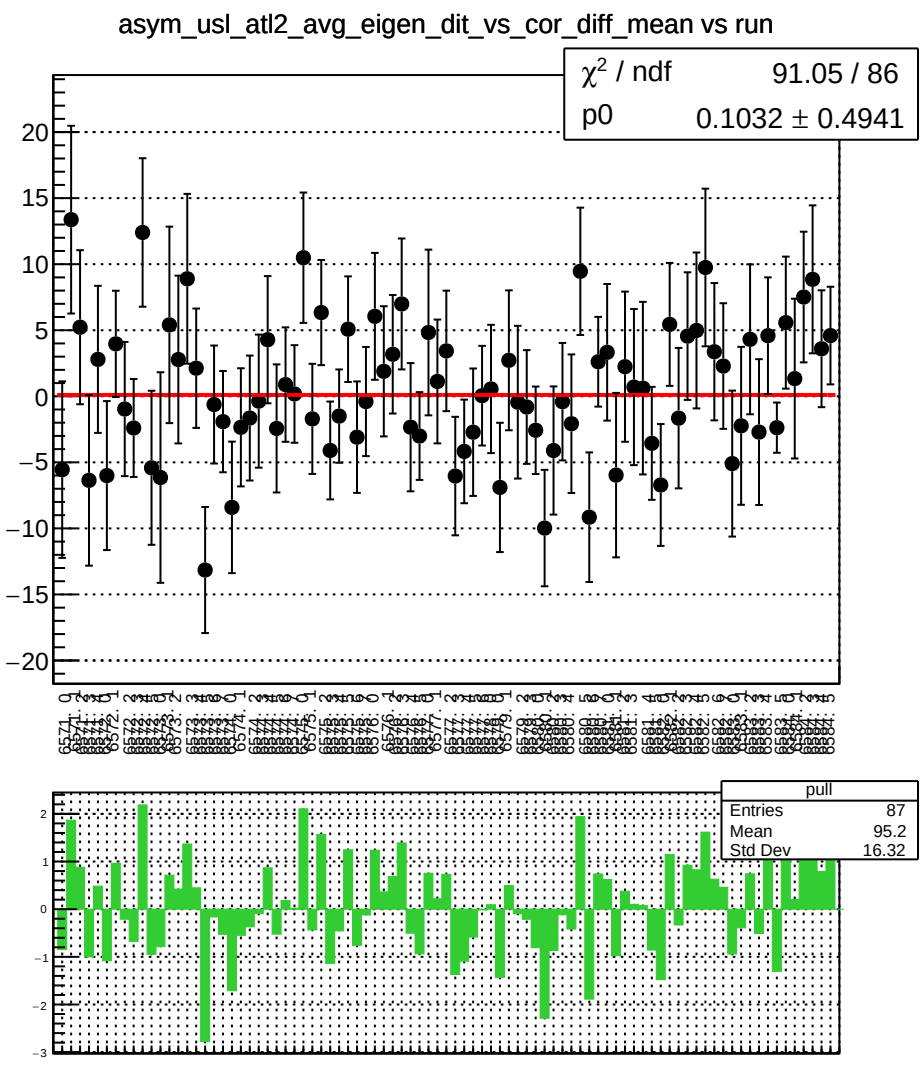

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.05 / 86
p0 0.1032 ± 0.4941
pull
Entries 87
Mean 95.2
Std Dev 16.33

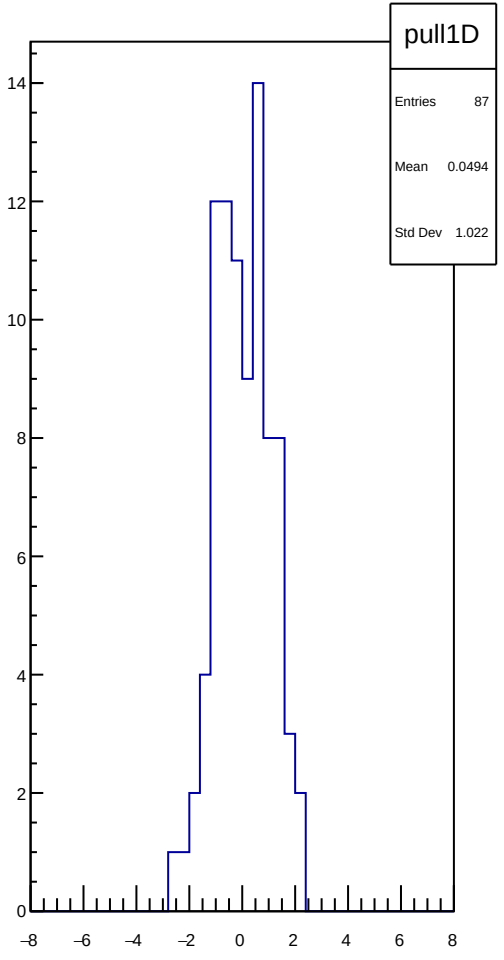

pull1D
Entries 87
Mean 0.0494
Std Dev 1.022

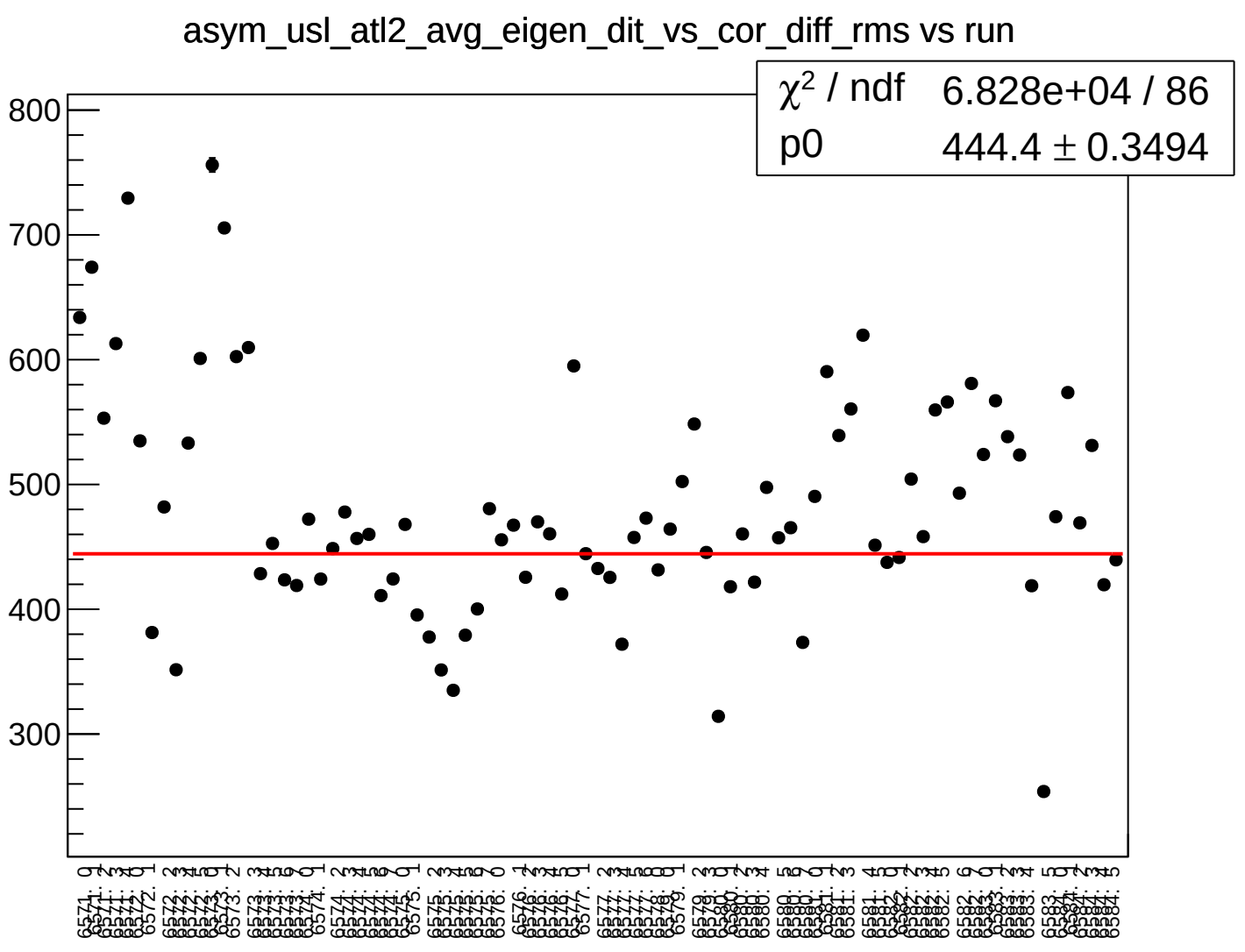

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 86
p0 444.4 ± 0.3493
800
700
600
500
400
300

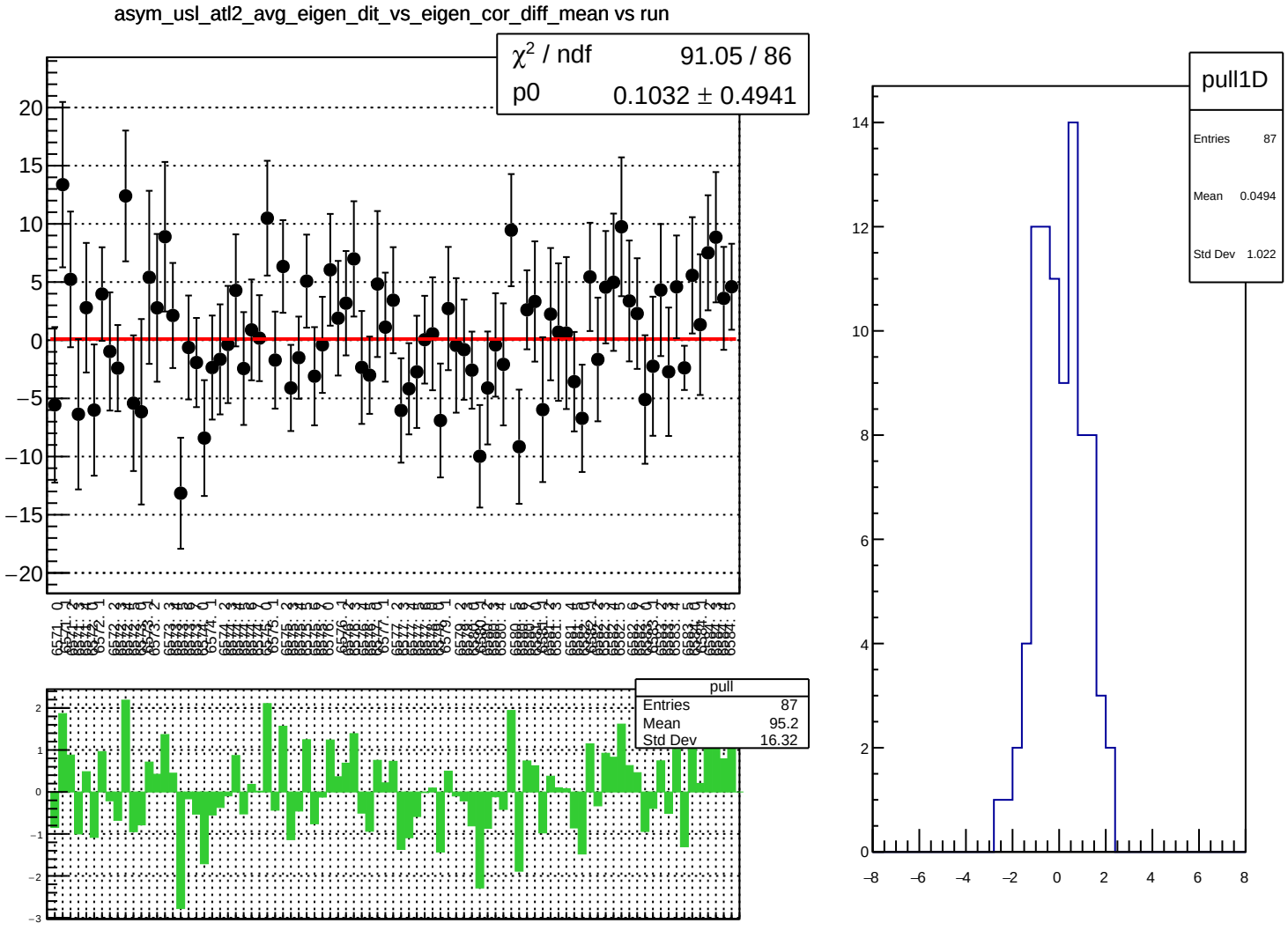

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.5 / 86
p0 −7.639e−06 ± 1.127e−05
pull
Entries 87
Mean −188.3
Std Dev 0
pull1D
Entries 87
Mean −0.009373
Std Dev 1.009

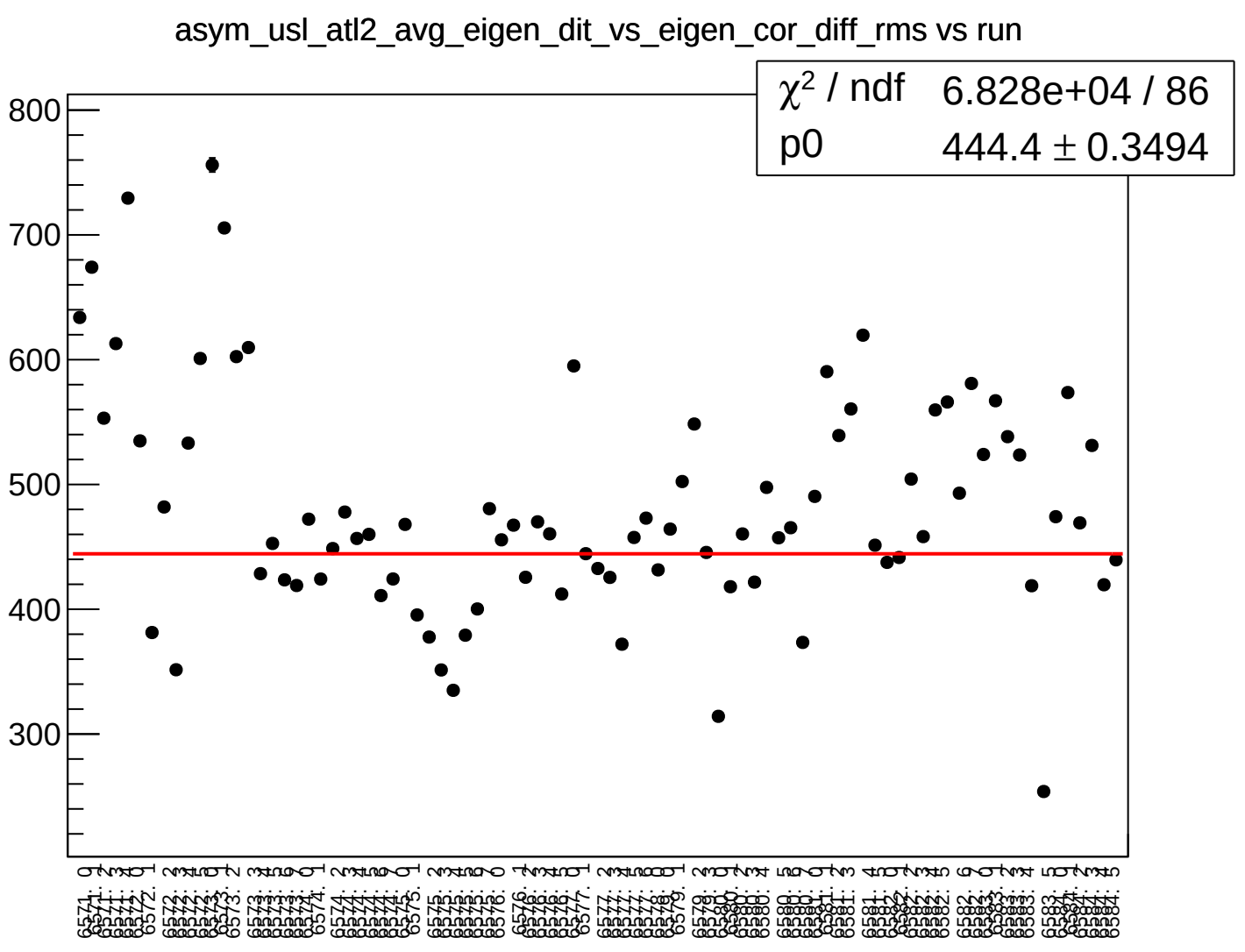

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.375e+04 / 86
p0 0.01031 ± 7.97e–06
0.014
0.013
0.012
0.011
0.01
0.009

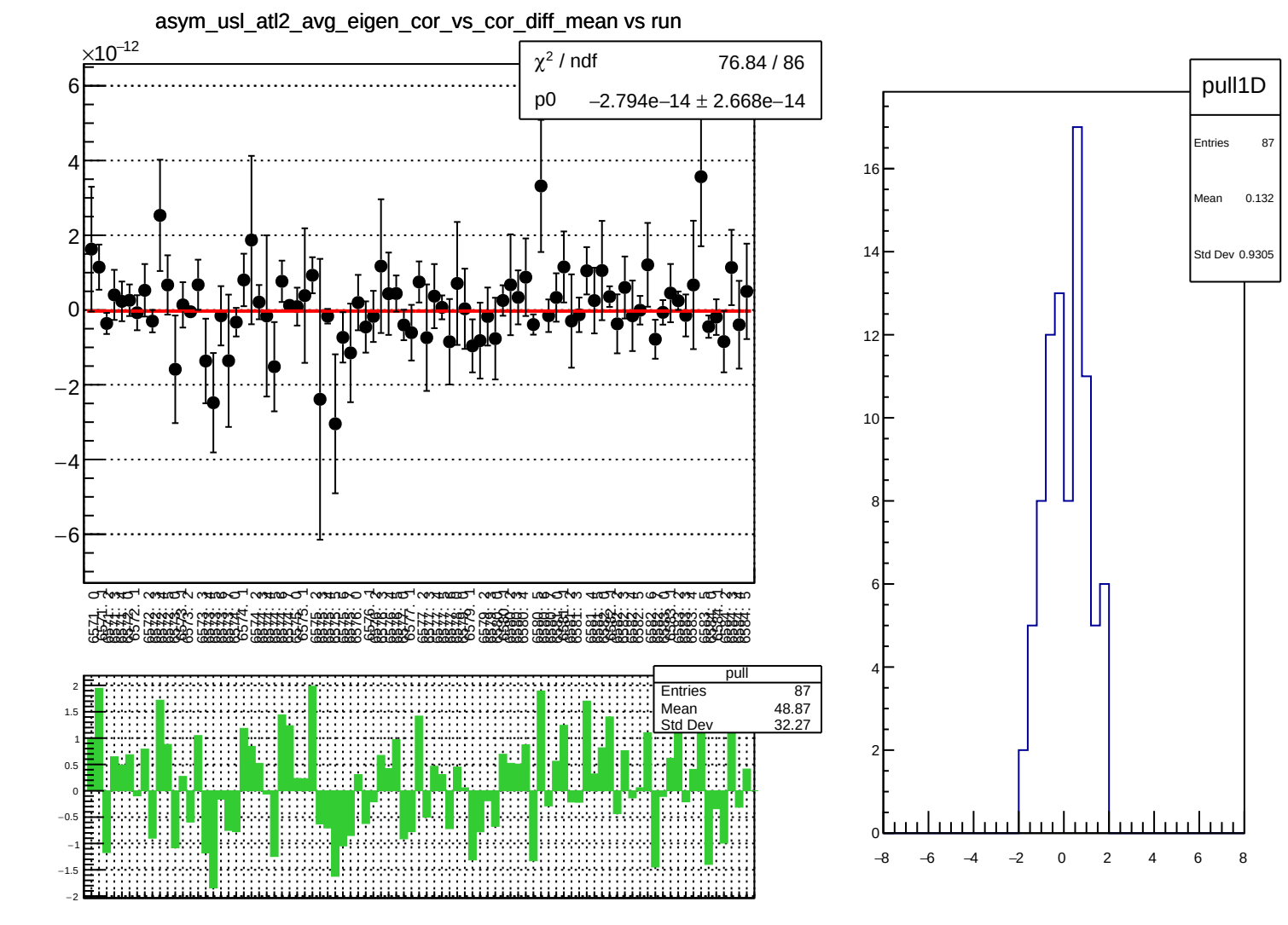

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.05 / 86
p0 0.1032 ± 0.4941
pull
Entries 87
Mean 95.2
Std Dev 16.32

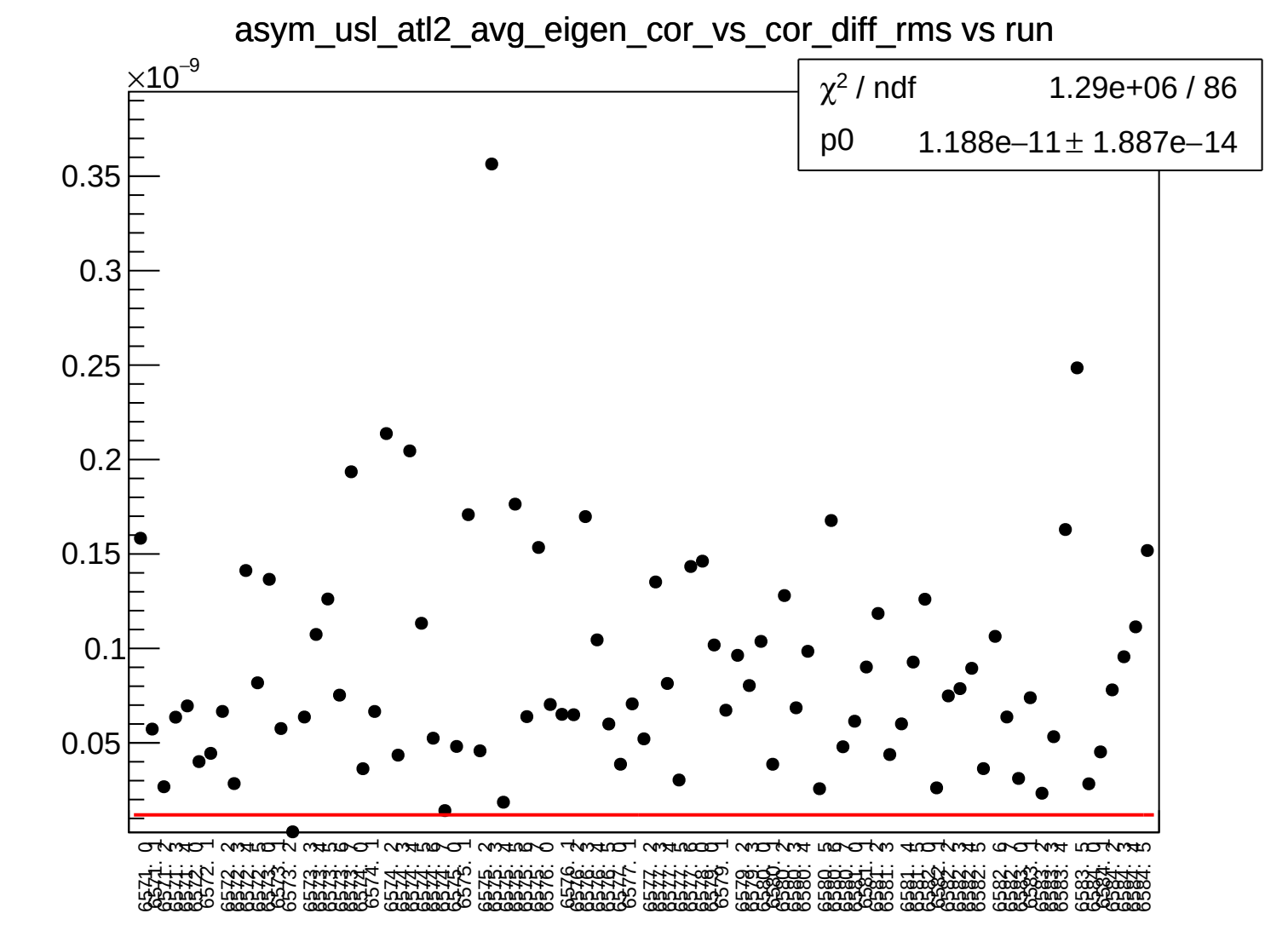

pull1D
Entries 87
Mean 0.0494
Std Dev 1.022

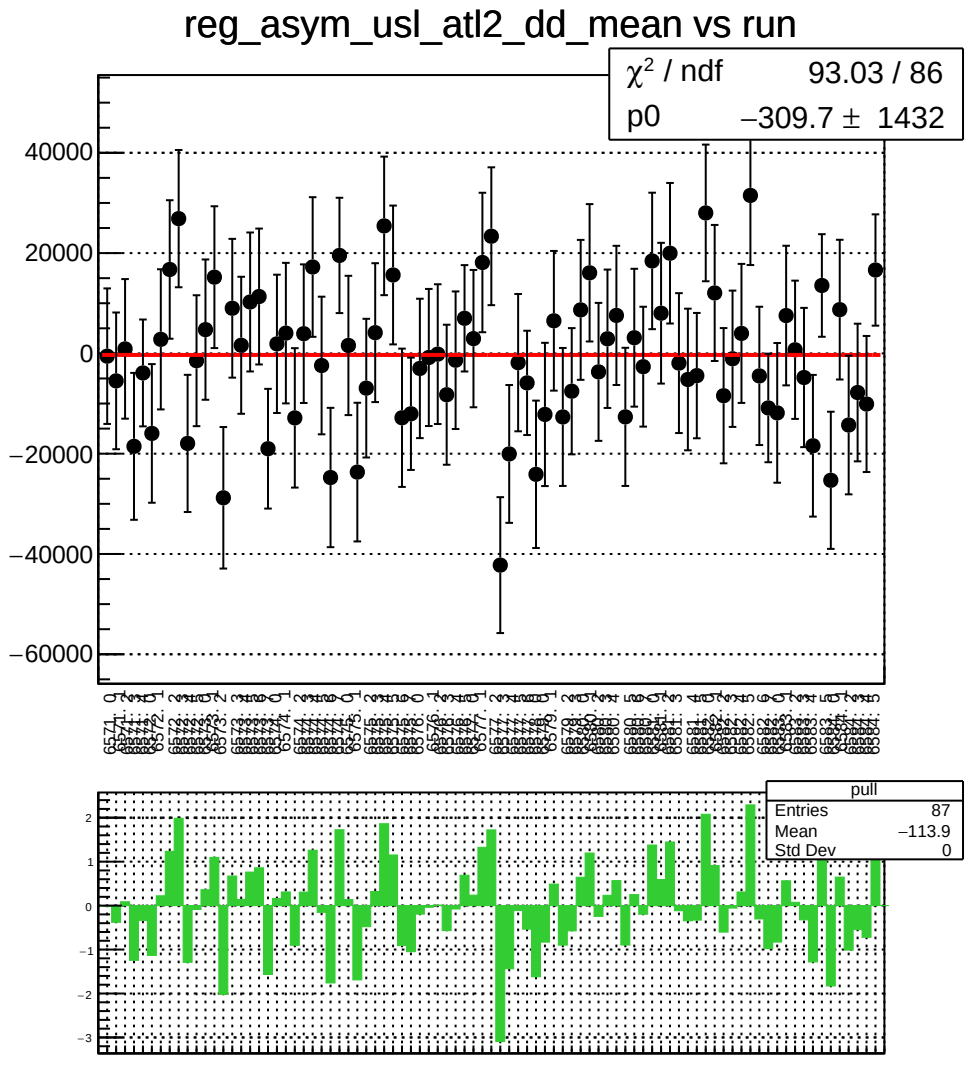

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 86
p0 444.4 ± 0.3494
800
700
600
500
400
300

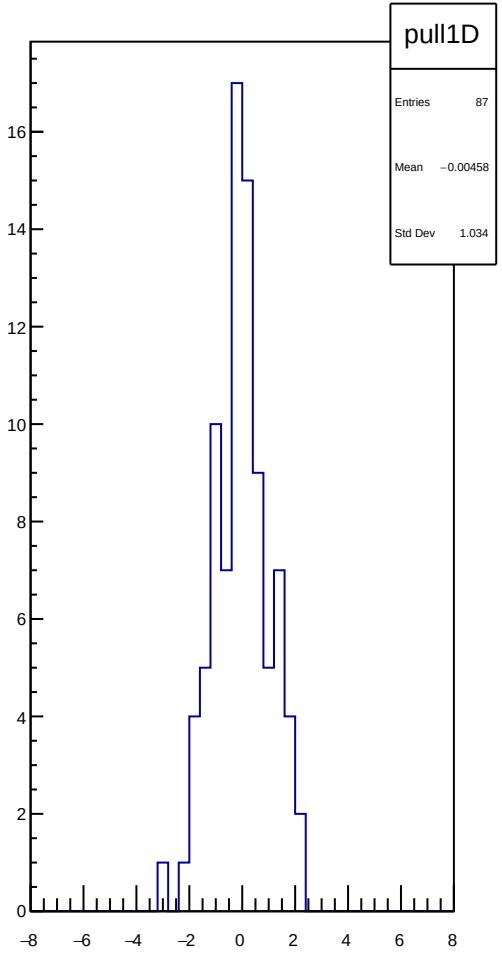

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.05 / 86
p0 0.1032 ± 0.4941
pull
Entries 87
Mean 95.2
Std Dev 16.32
pull1D
Entries 87
Mean 0.0494
Std Dev 1.022

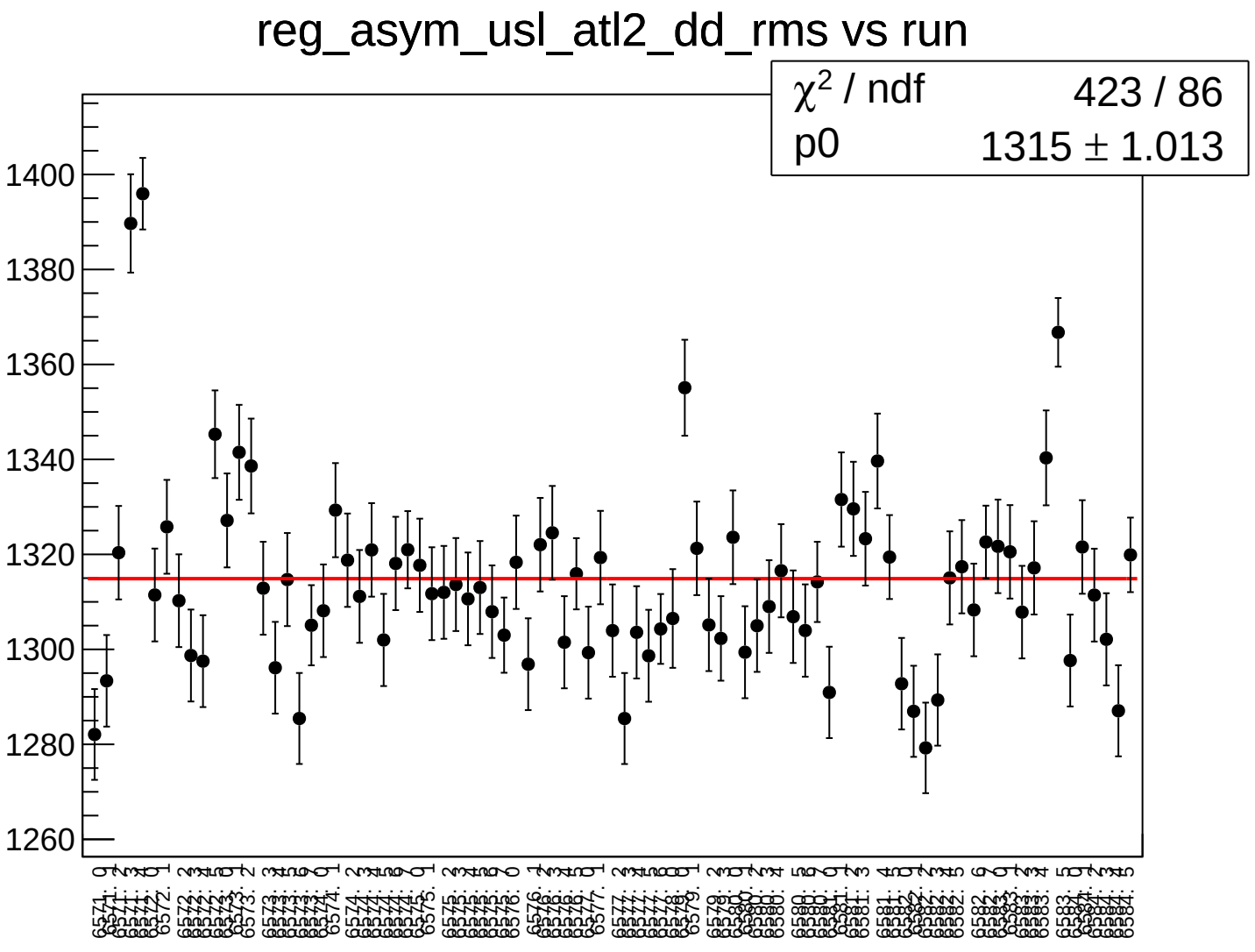

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 86
p0 444.4 ± 0.3494
800
700
600
500
400
300

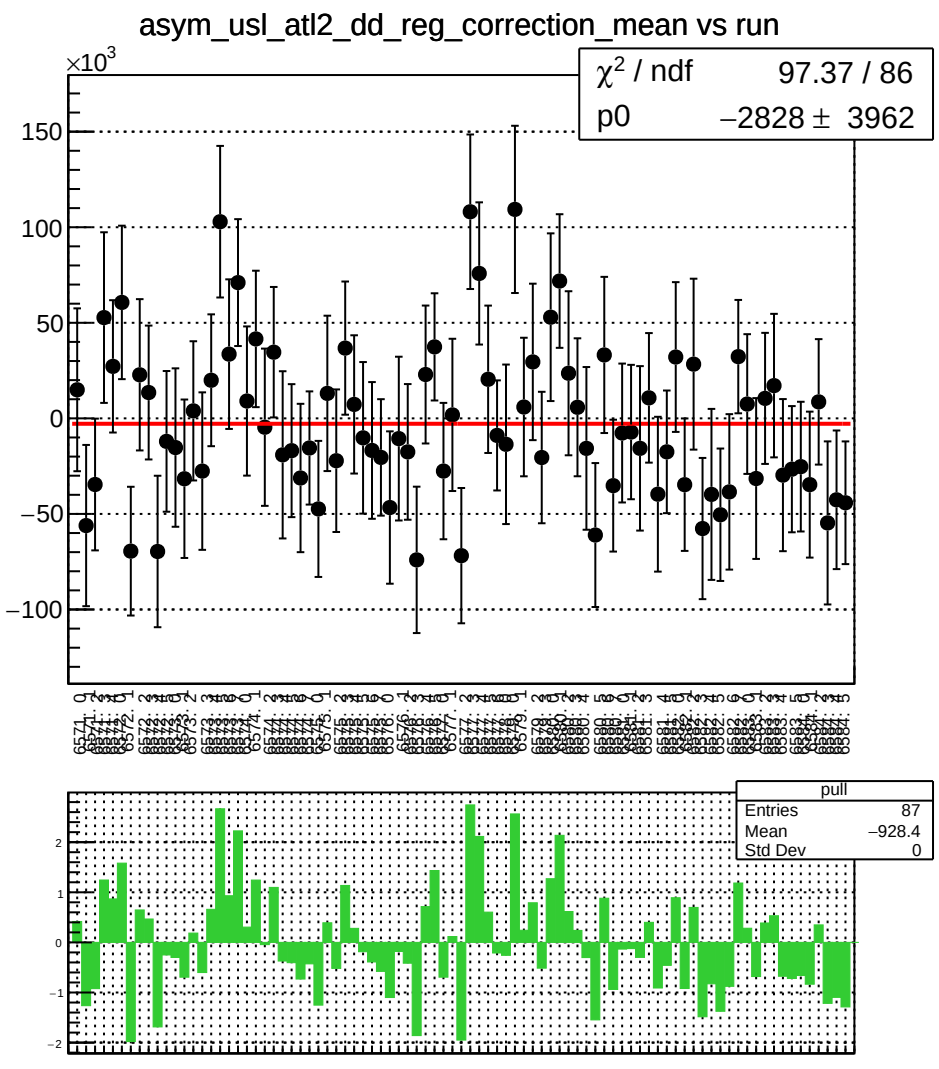

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.84 / 86
p0 −2.794e−14 ± 2.668e−14
pull
Entries 87
Mean 48.87
Std Dev 32.27
pull1D
Entries 87
Mean 0.132
Std Dev 0.9305

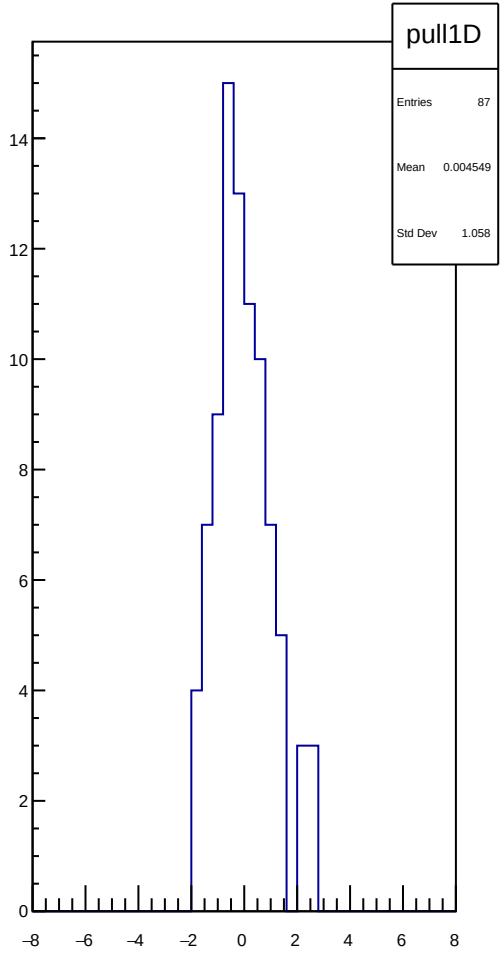

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.29e+06 / 86
p0 1.188e−11 ± 1.887e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

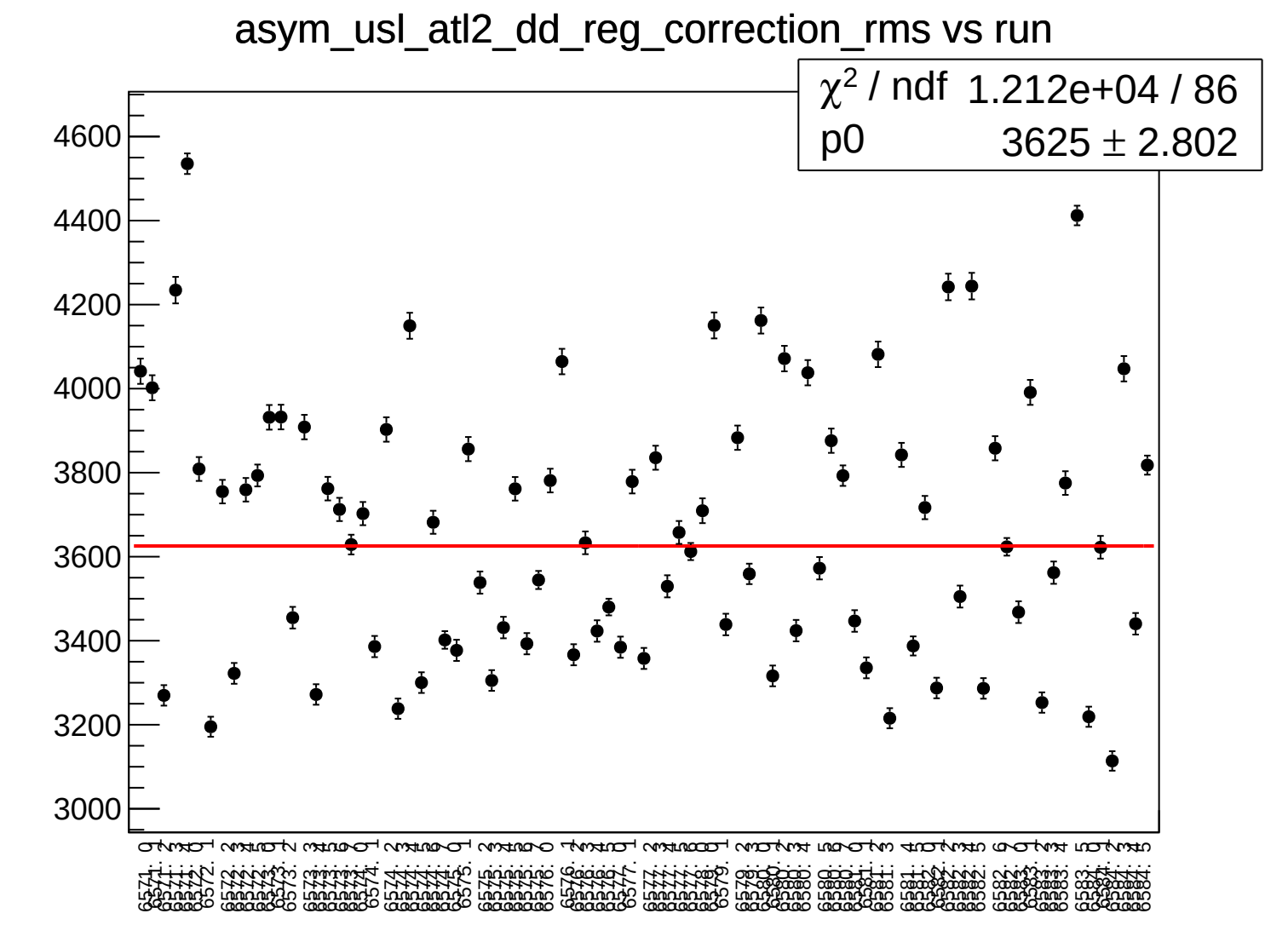

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 93.03 / 86
p0 −309.7 ± 1432
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −113.9
Std Dev 0
2
1
0
−1
−2
−3

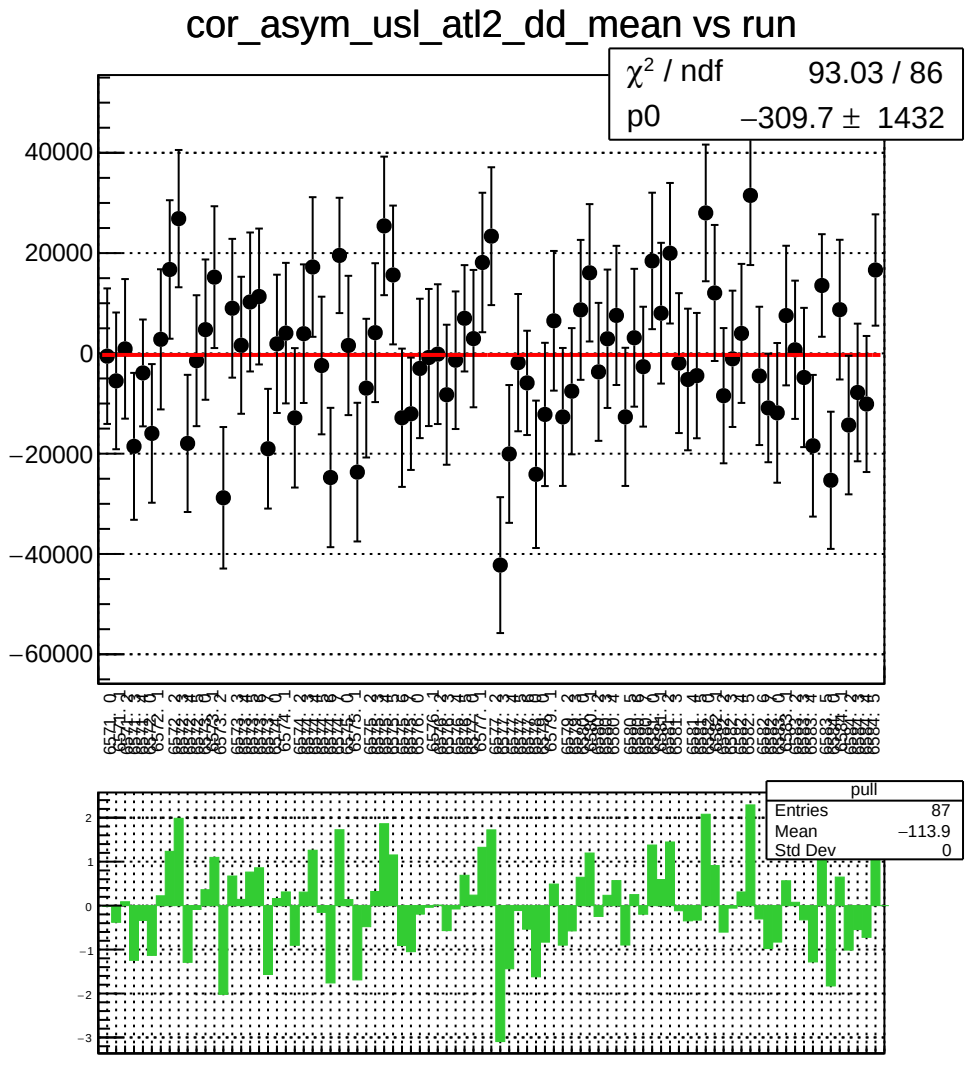

pull1D
Entries 87
Mean −0.00458
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

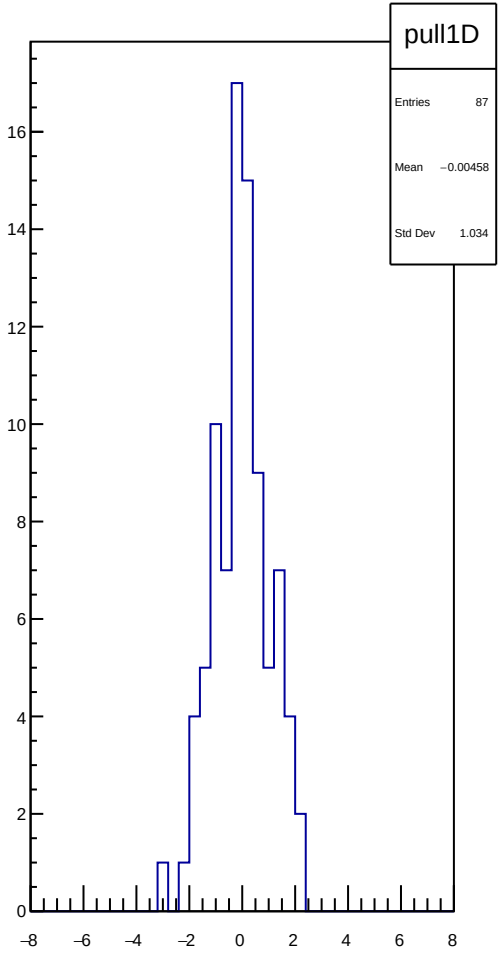

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 423 / 86
p0 1315 ± 1.013
1400
1380
1360
1340
1320
1300
1280
1260

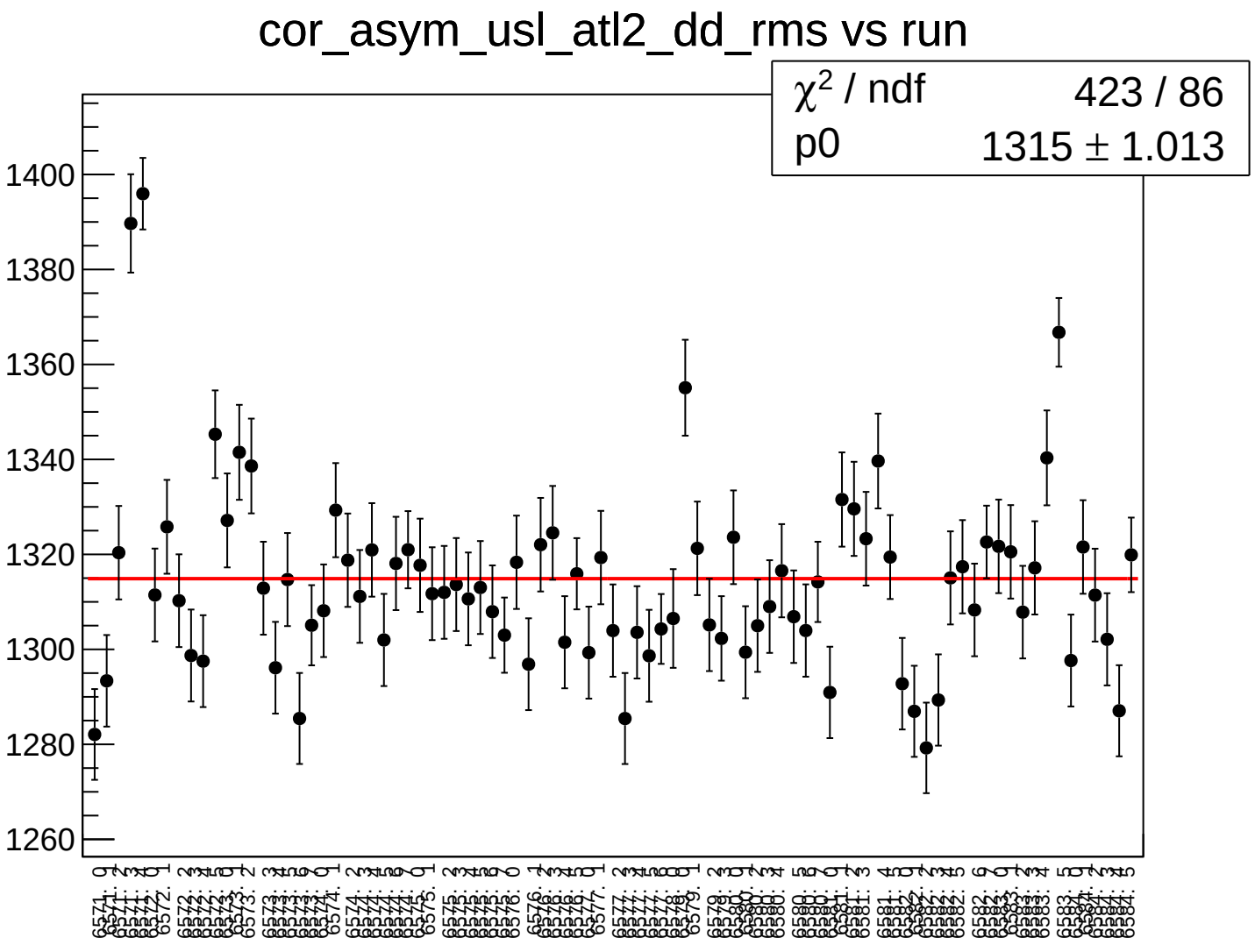

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.37 / 86
p0 −2828 ± 3962
150
100
50
0
−50
−100
pull
Entries 87
Mean −928.4
Std Dev 0
2
1
0
−1
−2

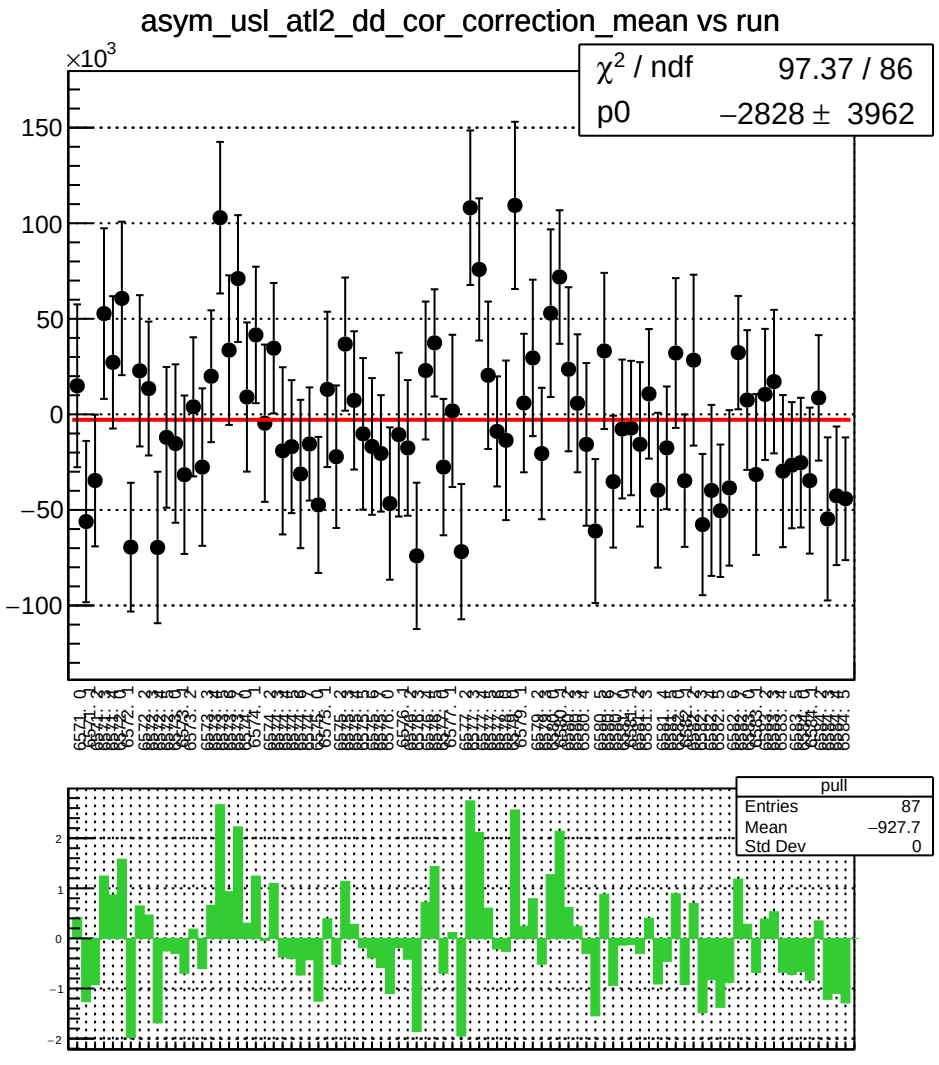

pull1D
Entries 87
Mean 0.004549
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

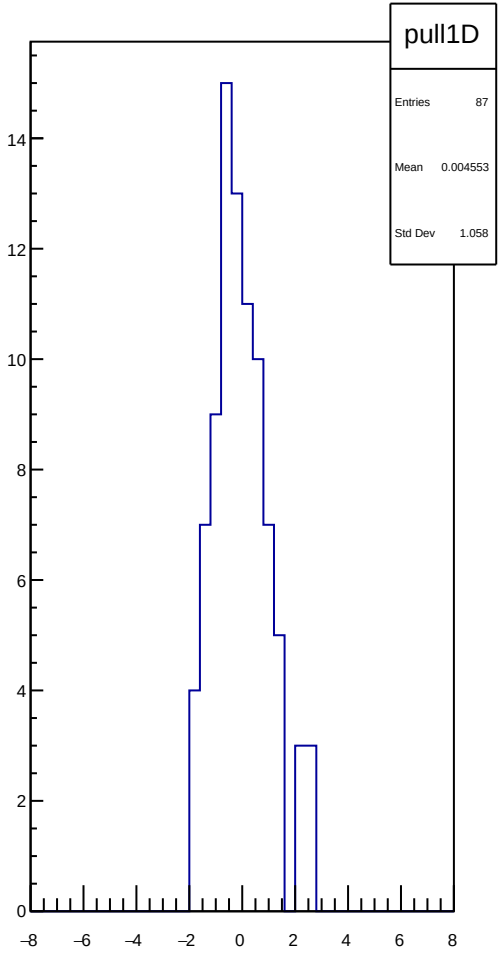

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.212e+04 / 86
p0 3625 ± 2.802
4600
4400
4200
4000
3800
3600
3400
3200
3000

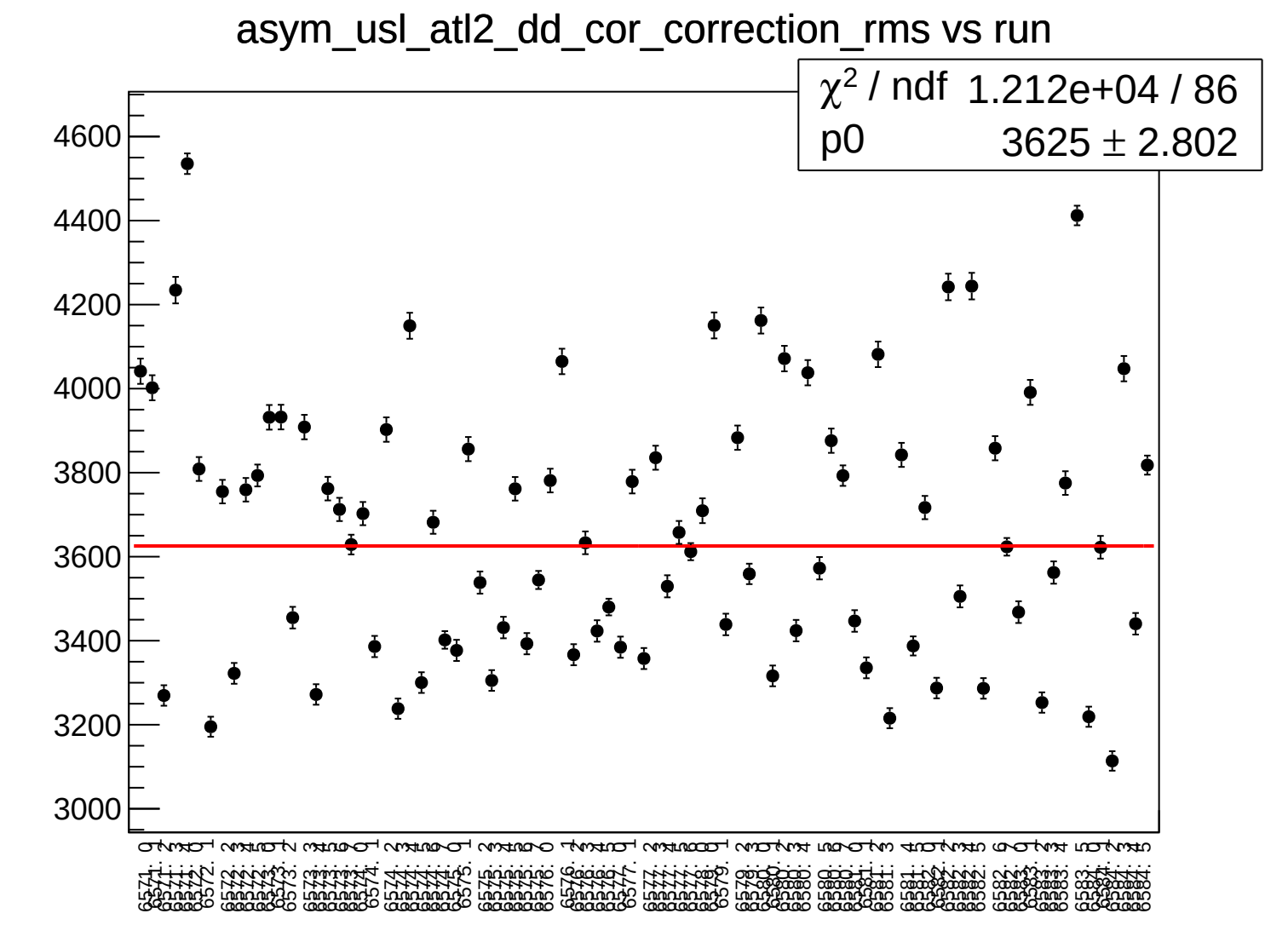

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 93.03 / 86
p0 −309.7 ± 1432
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −113.9
Std Dev 0
2
1
0
−1
−2
−3

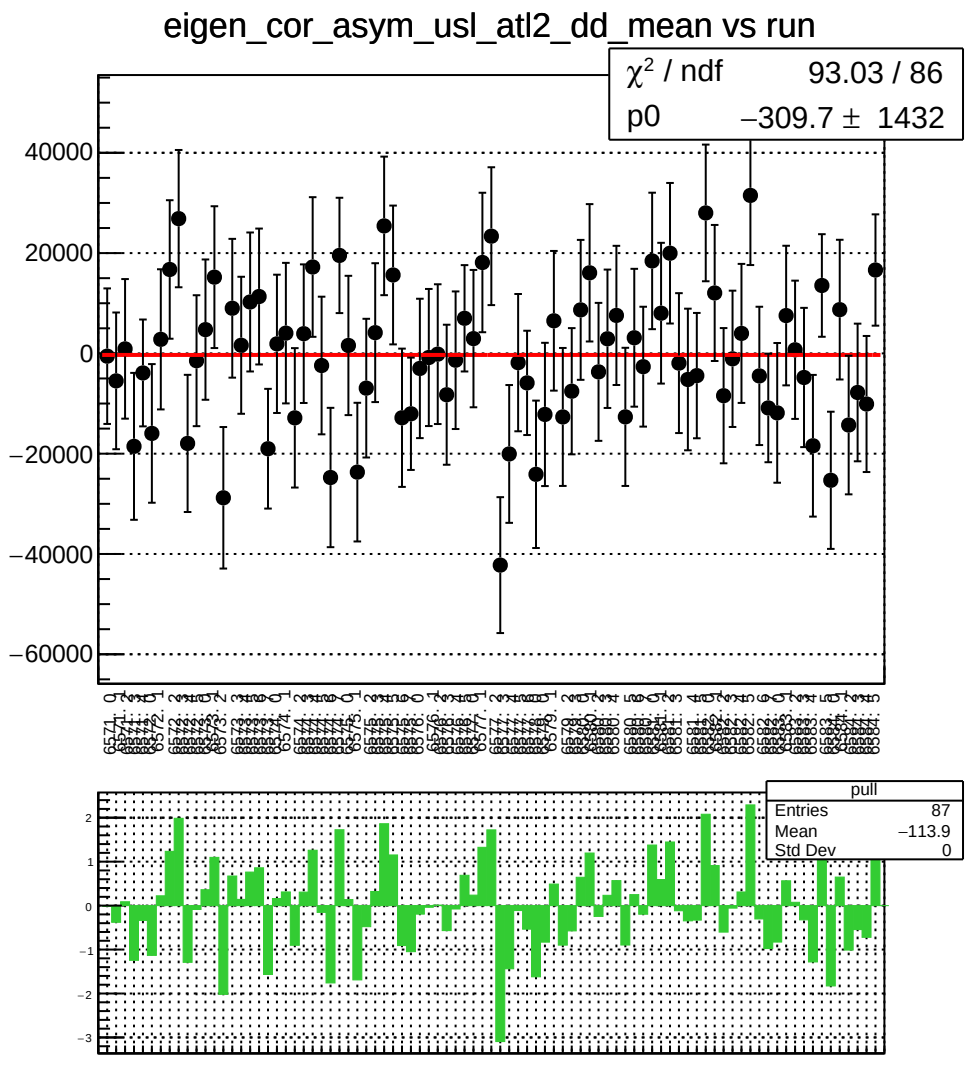

pull1D
Entries 87
Mean −0.00458
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

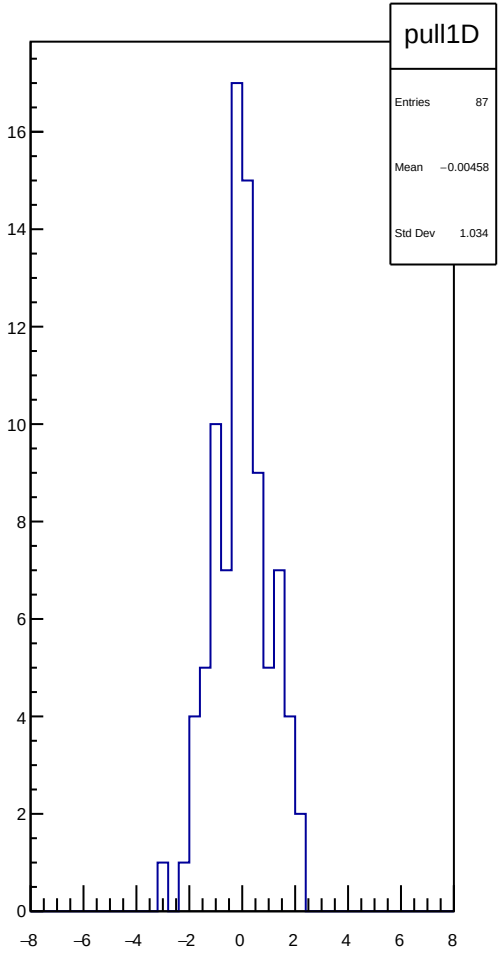

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 423 / 86
p0 1315 ± 1.013
1400
1380
1360
1340
1320
1300
1280
1260

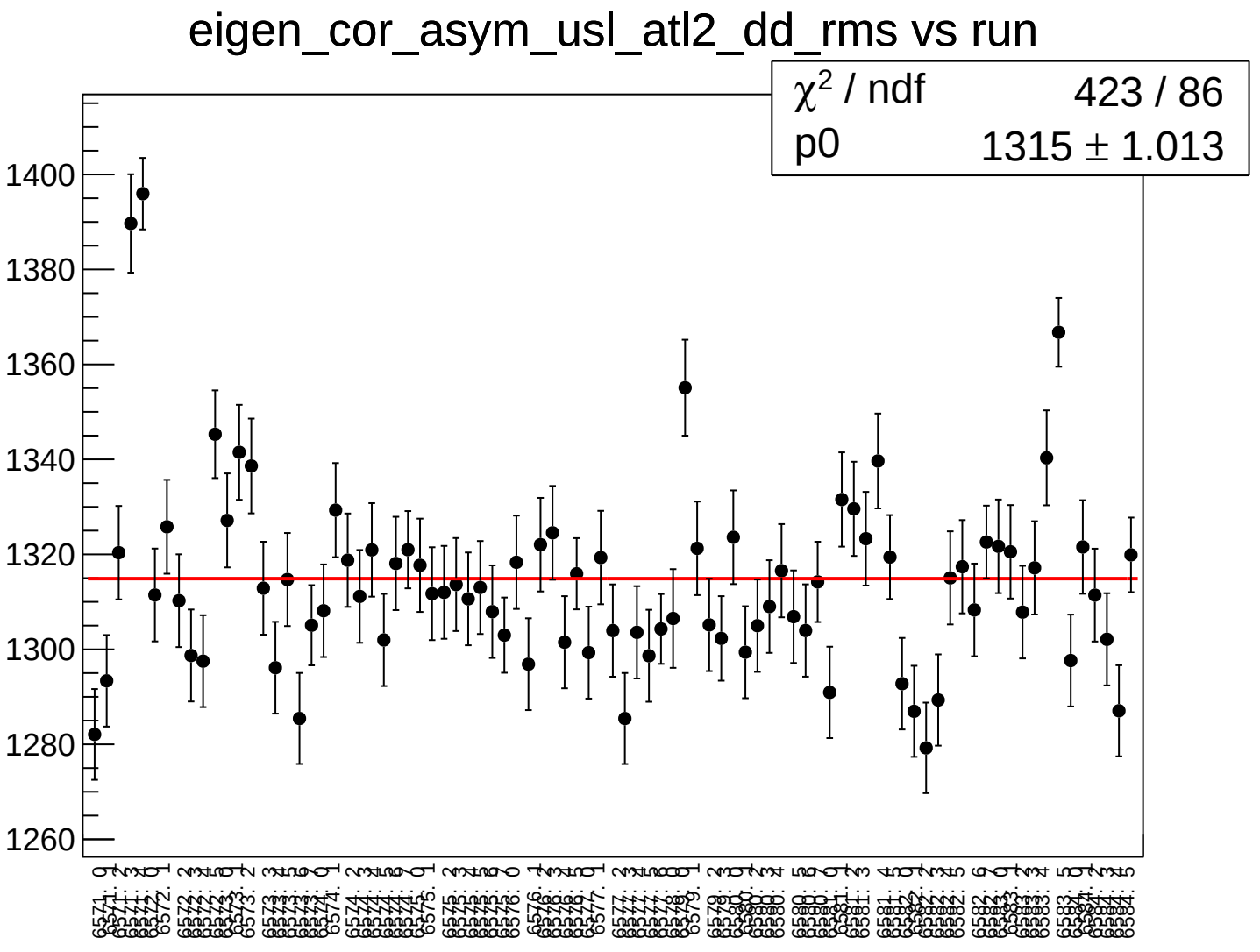

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.37 / 86
p0 −2828 ± 3962
150
100
50
0
−50
−100
pull
Entries 87
Mean −927.7
Std Dev 0
2
1
0
−1
−2

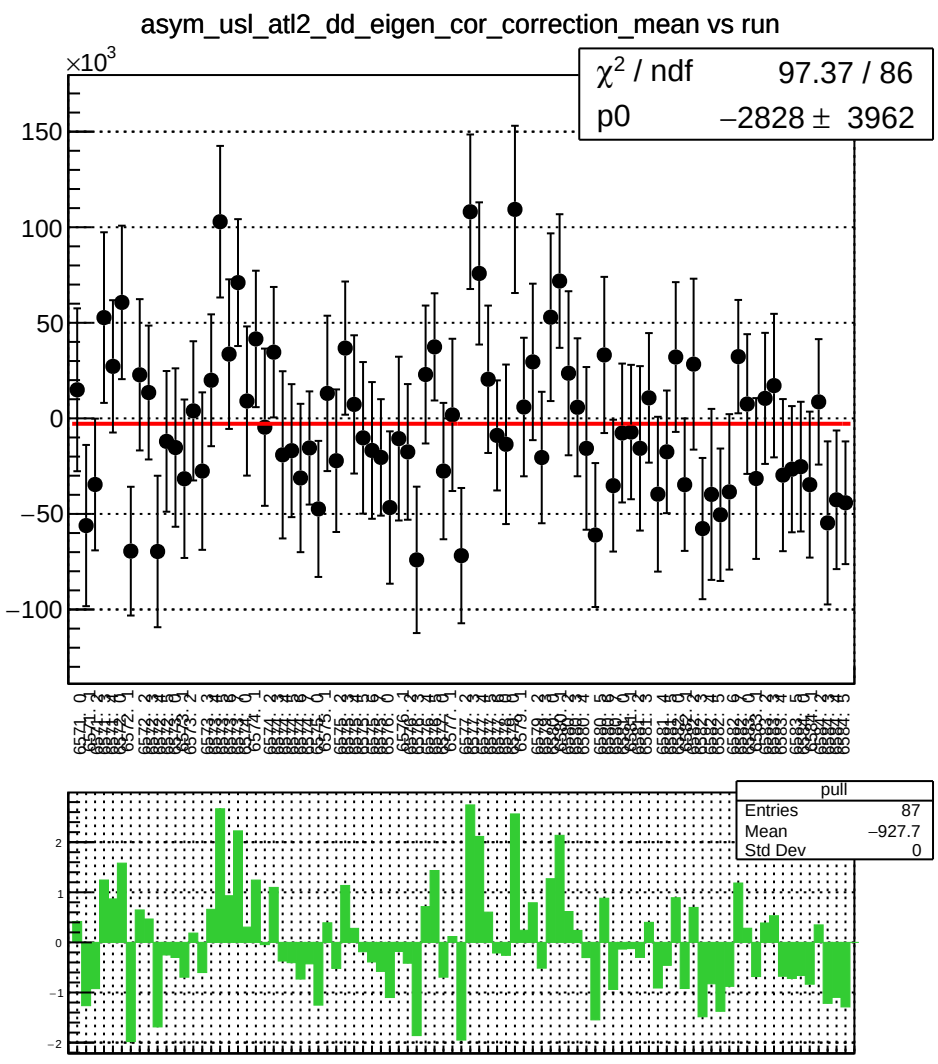

pull1D
Entries 87
Mean 0.004553
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

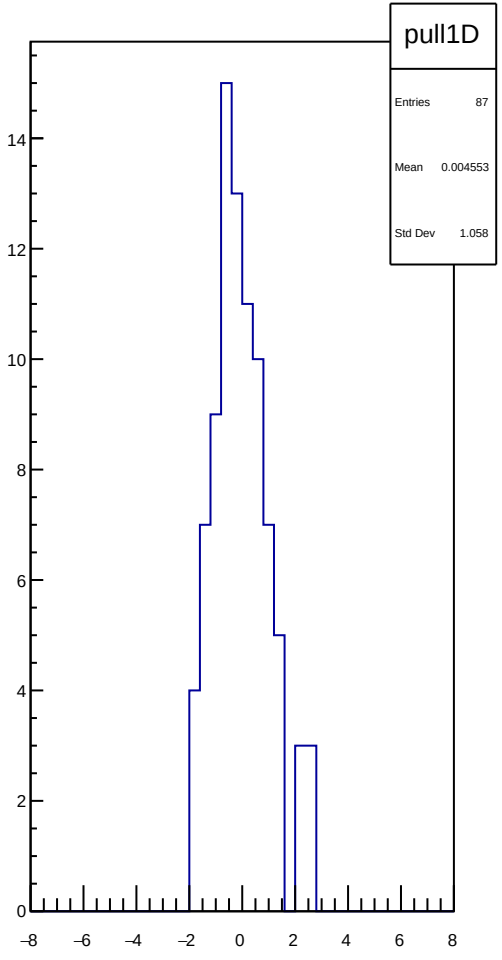

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.212e+04 / 86
p0 3625 ± 2.802
4600
4400
4200
4000
3800
3600
3400
3200
3000

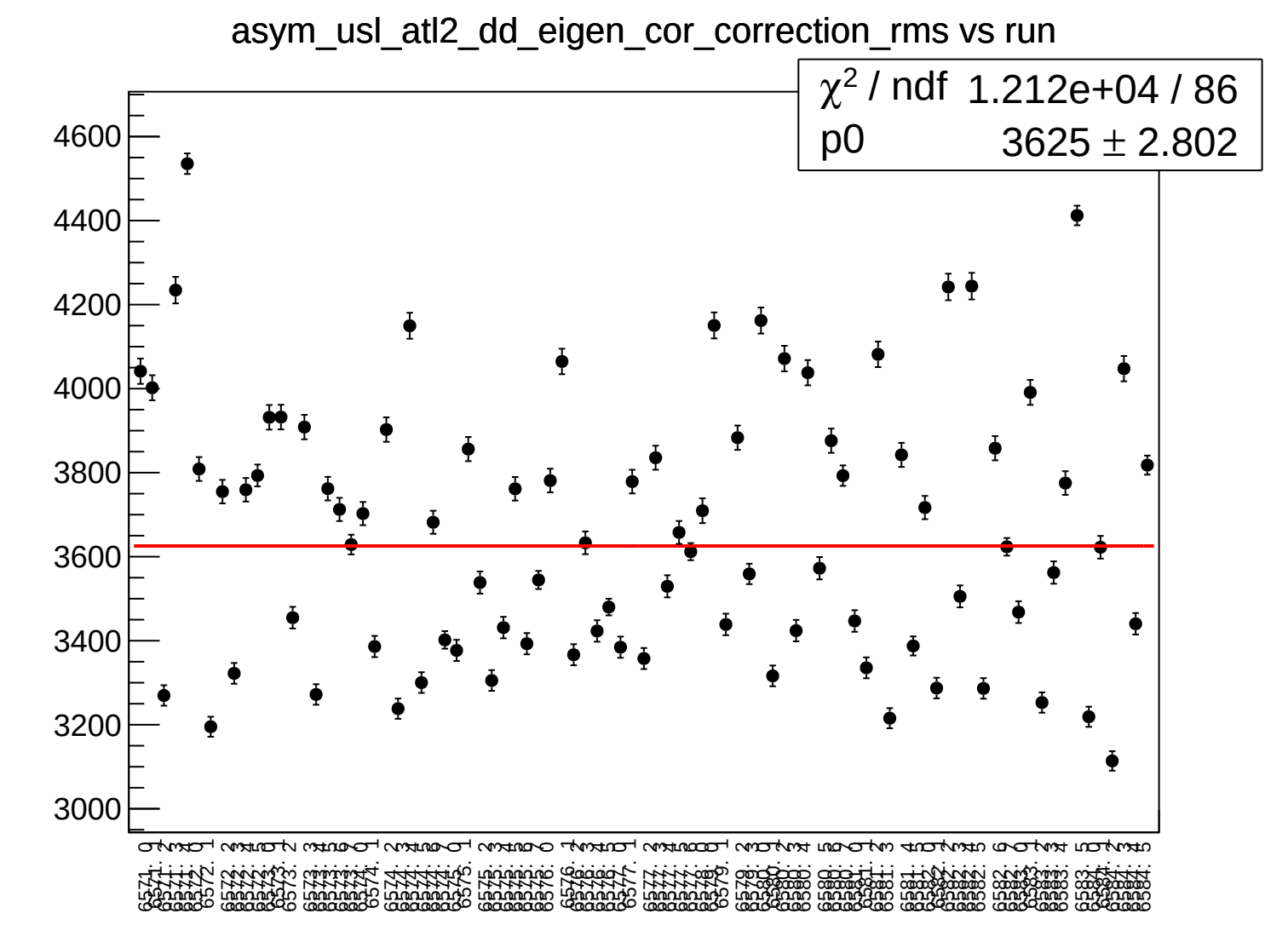

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 93.03 / 86
p0 −309.7 ± 1432
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −113.9
Std Dev 0
2
1
0
−1
−2
−3

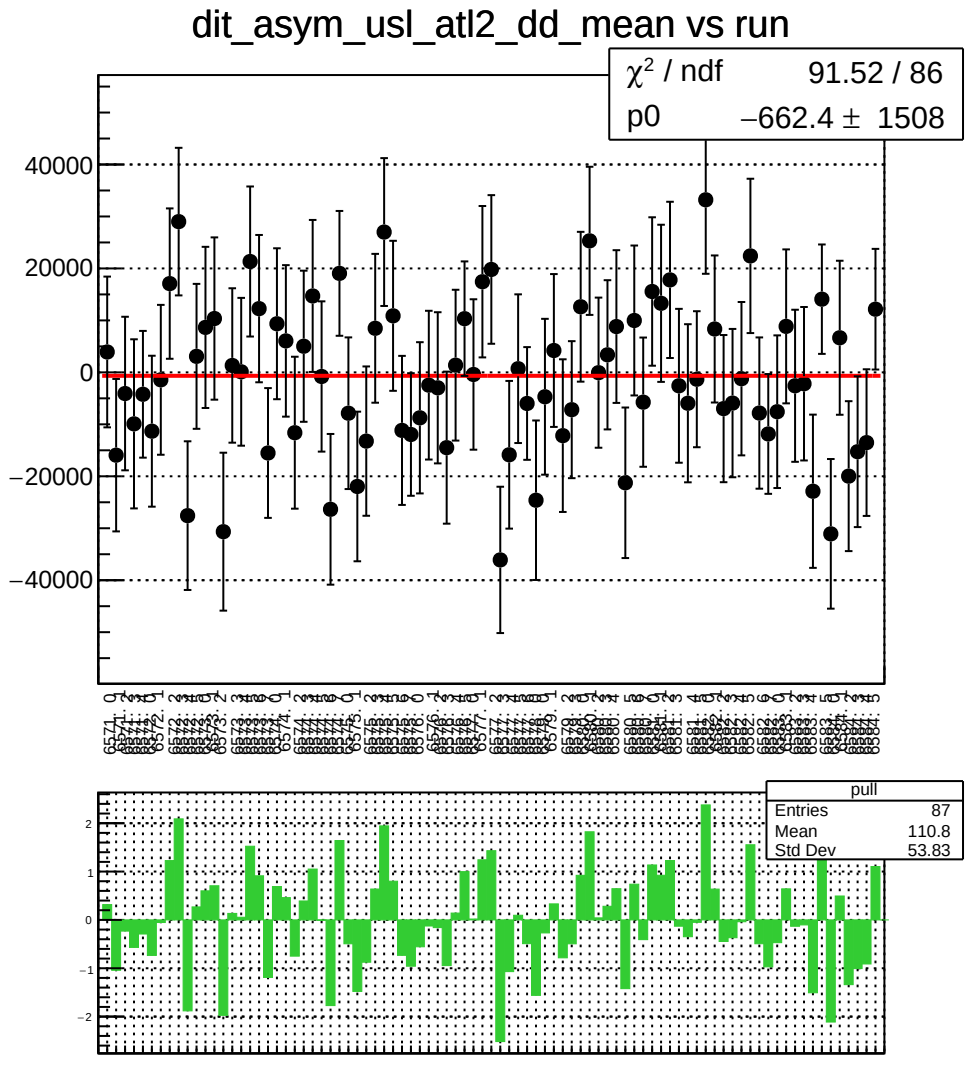

pull1D
Entries 87
Mean −0.00458
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

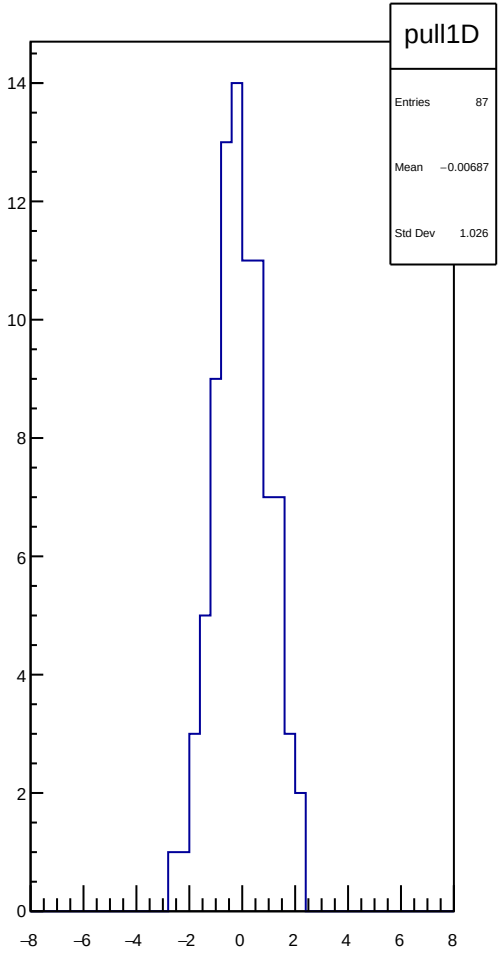

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 423 / 86
p0 1315 ± 1.013
1400
1380
1360
1340
1320
1300
1280
1260

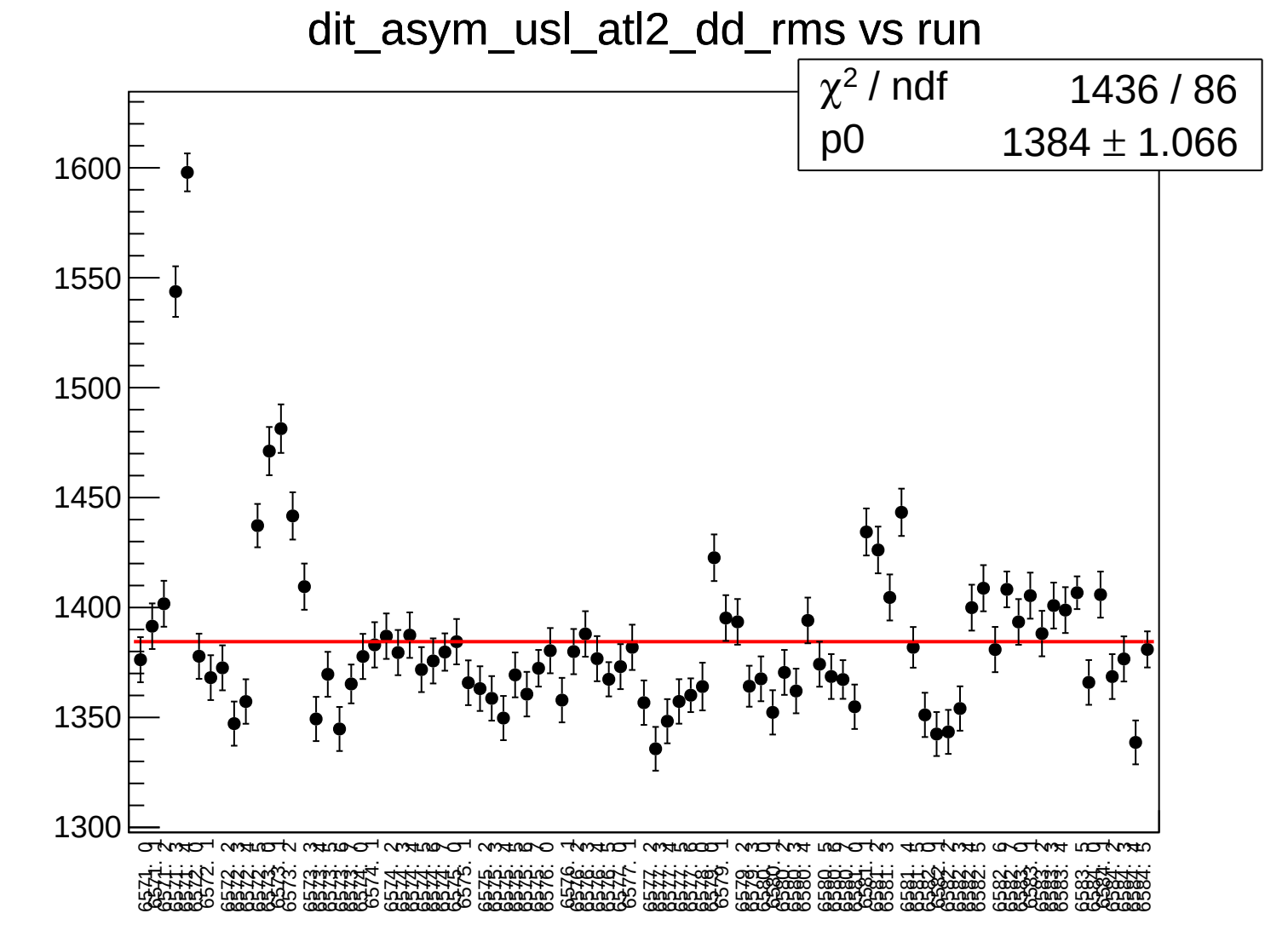

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.37 / 86
p0 −2828 ± 3962
150
100
50
0
−50
−100
pull
Entries 87
Mean −927.7
Std Dev 0
2
1
0
−1
−2

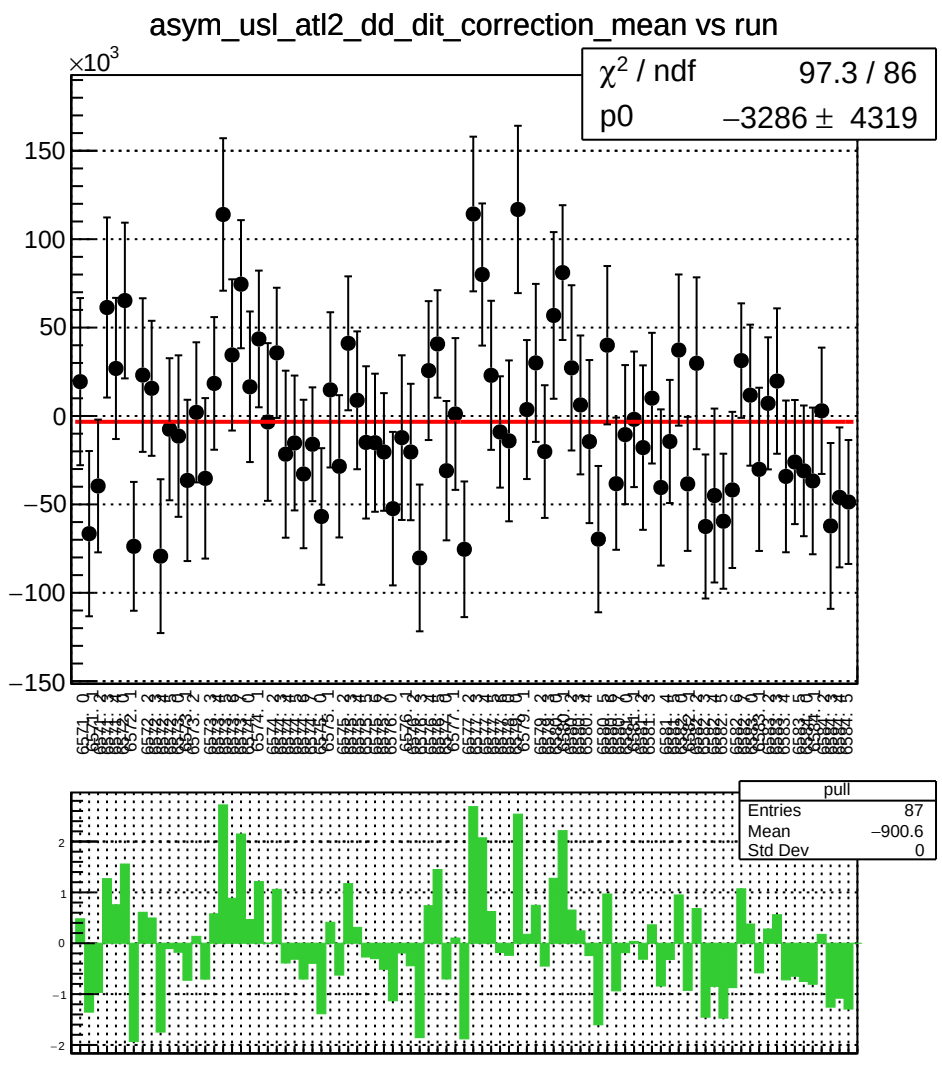

pull1D
Entries 87
Mean 0.004553
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

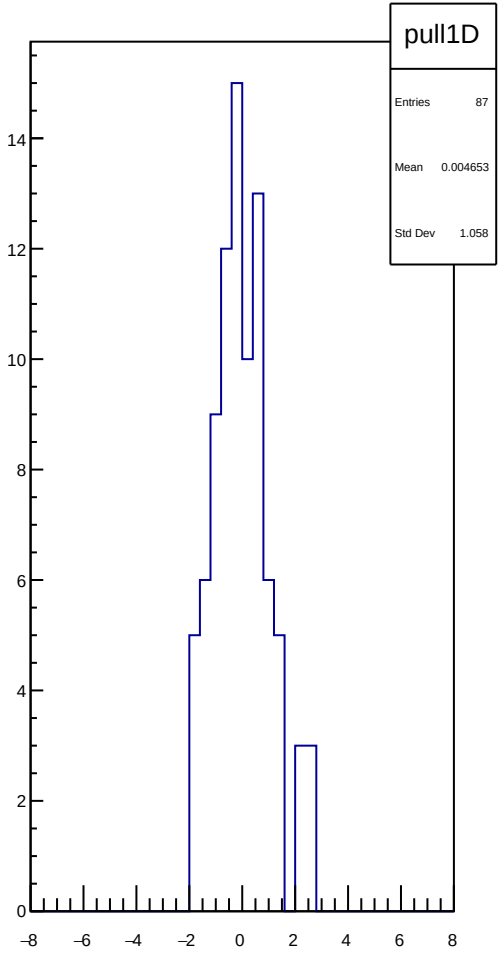

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.212e+04 / 86
p0 3625 ± 2.802
4600
4400
4200
4000
3800
3600
3400
3200
3000

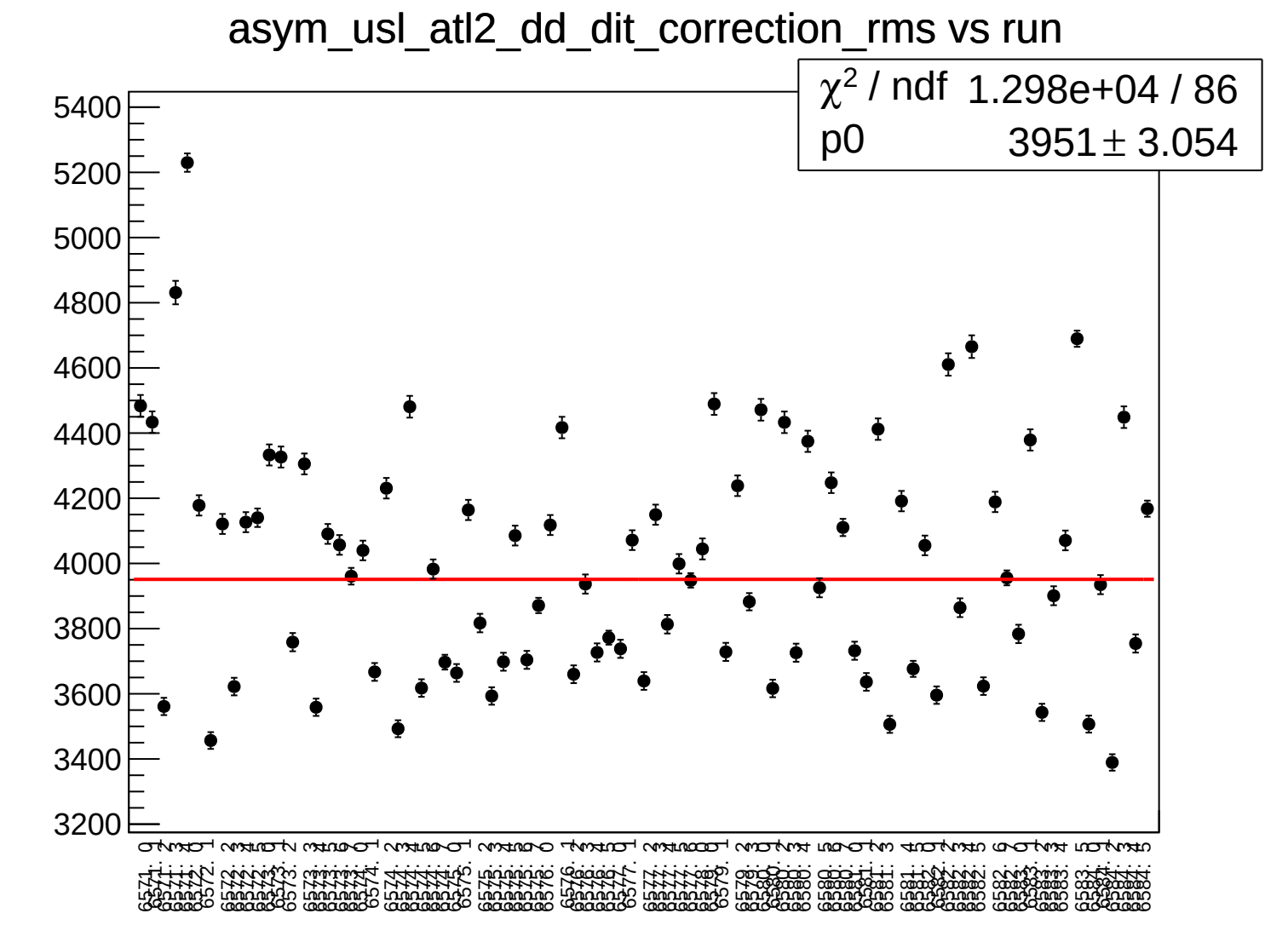

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 91.52 / 86
p0 −662.4 ± 1508
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 110.8
Std Dev 53.83
2
1
0
−1
−2

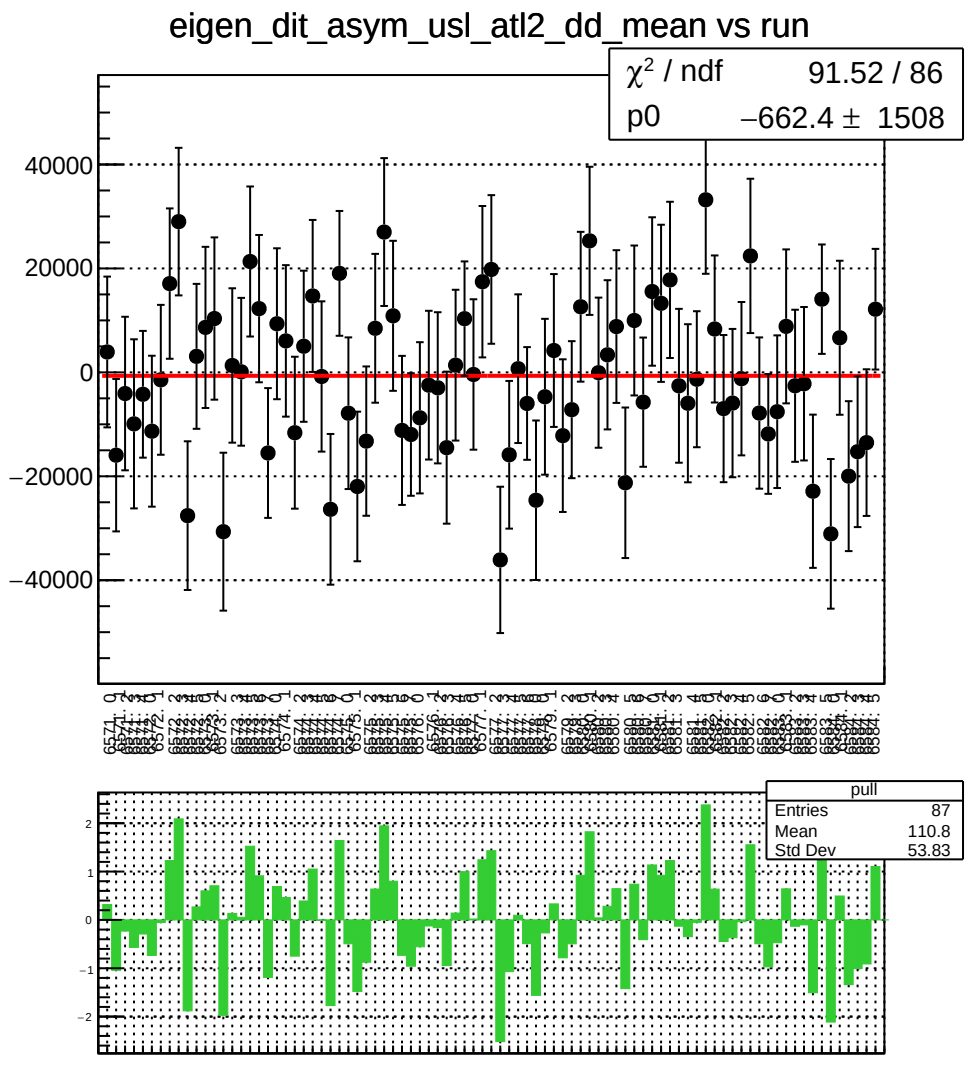

pull1D
Entries 87
Mean −0.00687
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

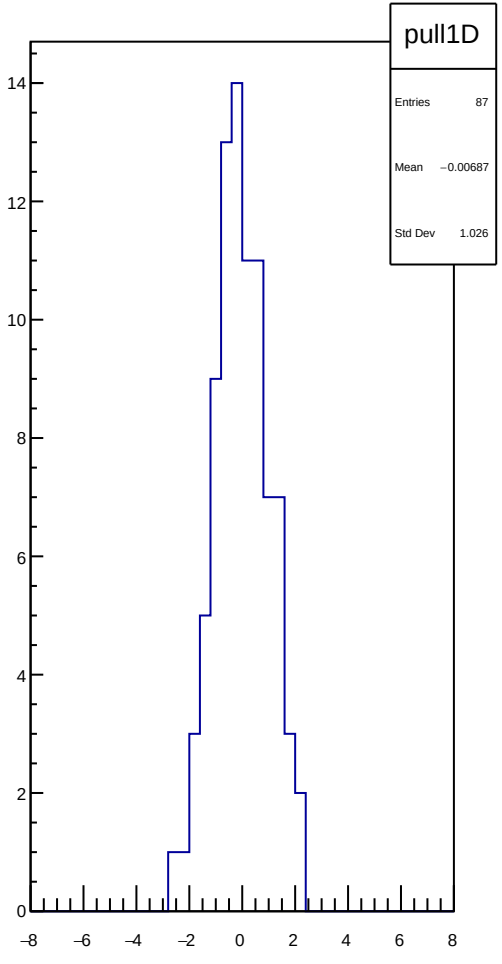

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1436 / 86
p0 1384 ± 1.066
1600
1550
1500
1450
1400
1350
1300

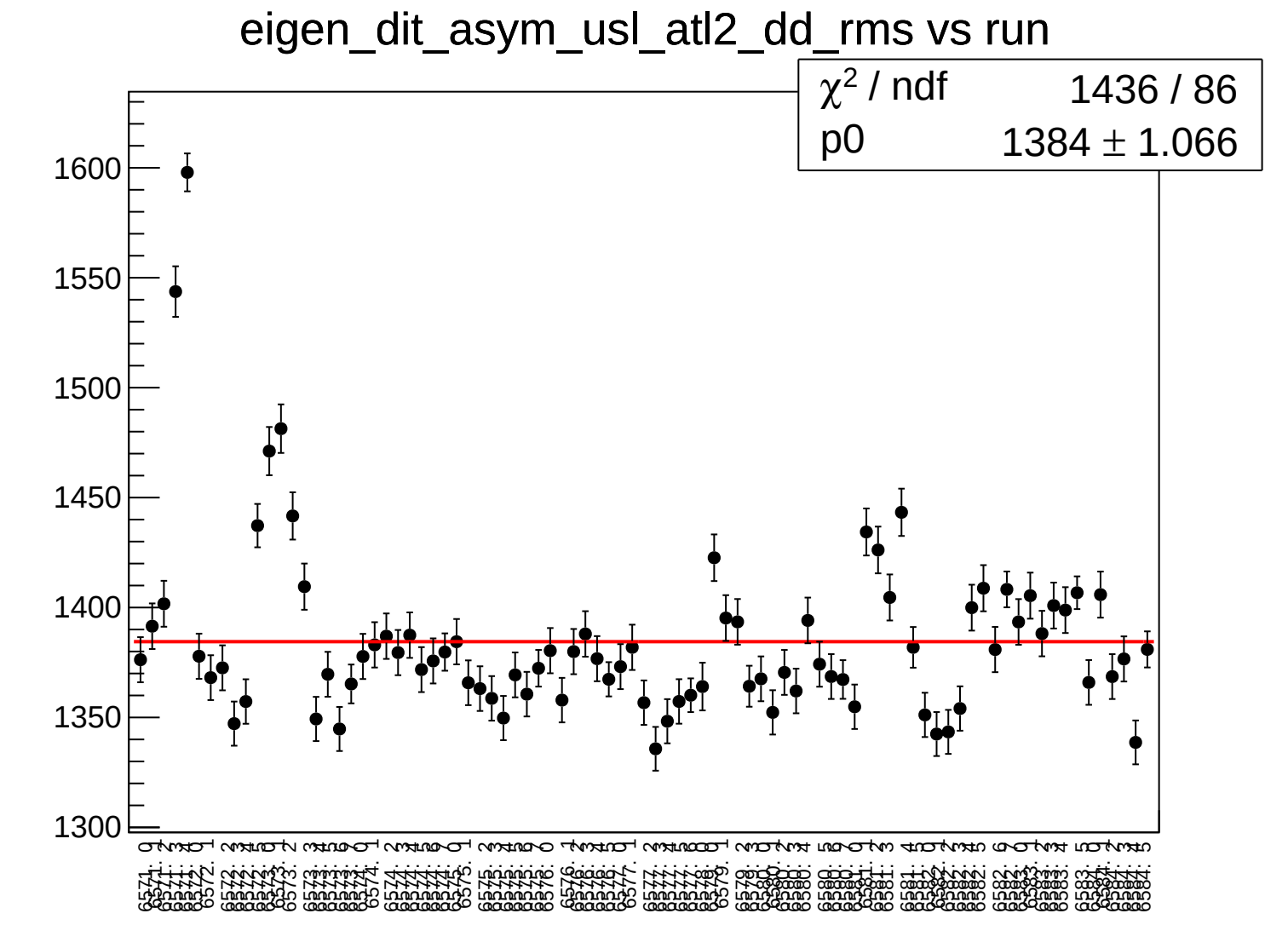

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.3 / 86
p0 −3286 ± 4319
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −900.6
Std Dev 0
2
1
0
−1
−2

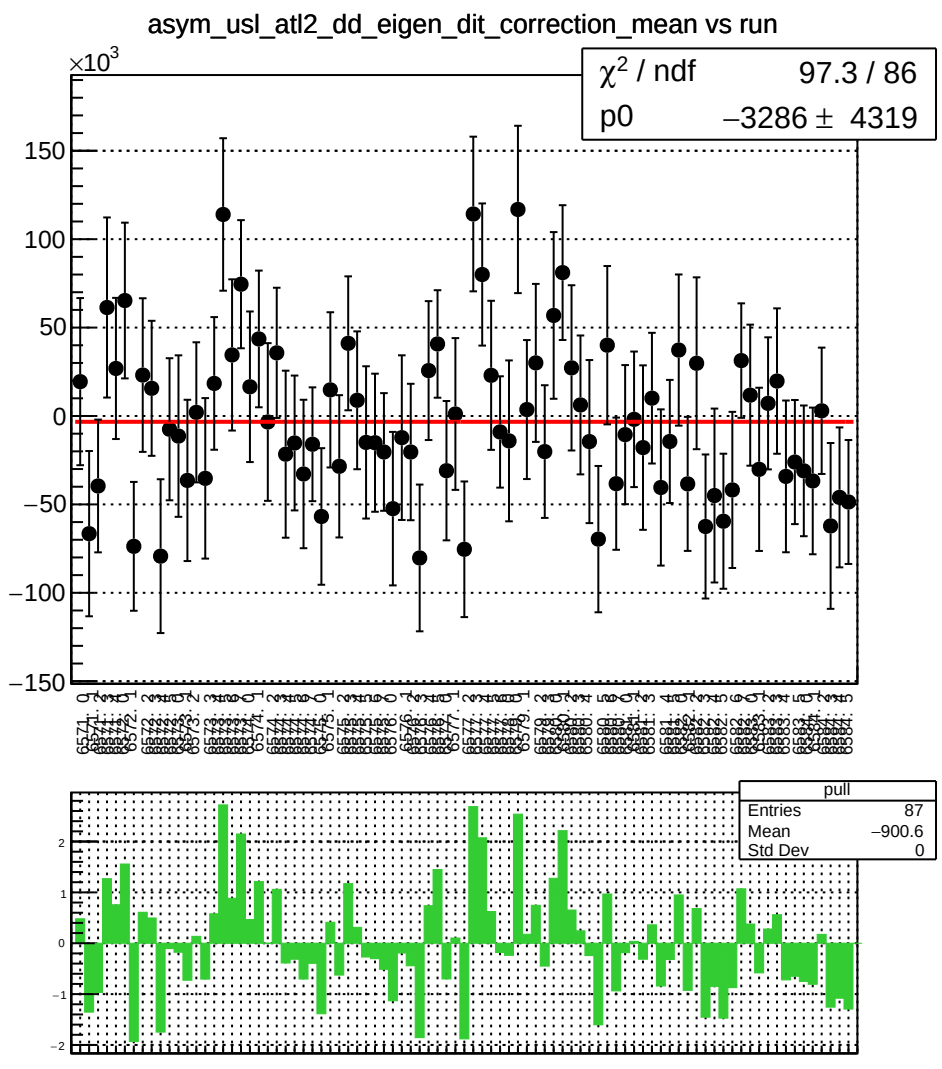

pull1D
Entries 87
Mean 0.004653
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

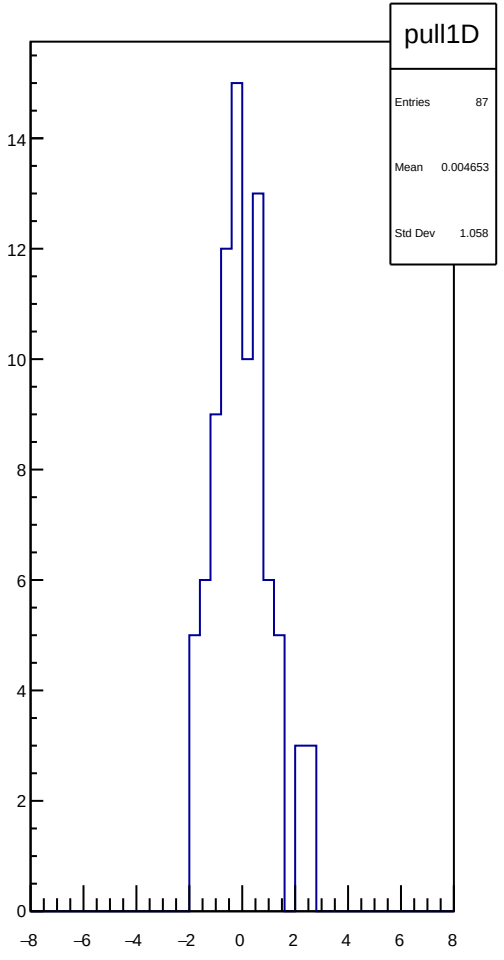

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.298e+04 / 86
p0 3951 ± 3.054
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

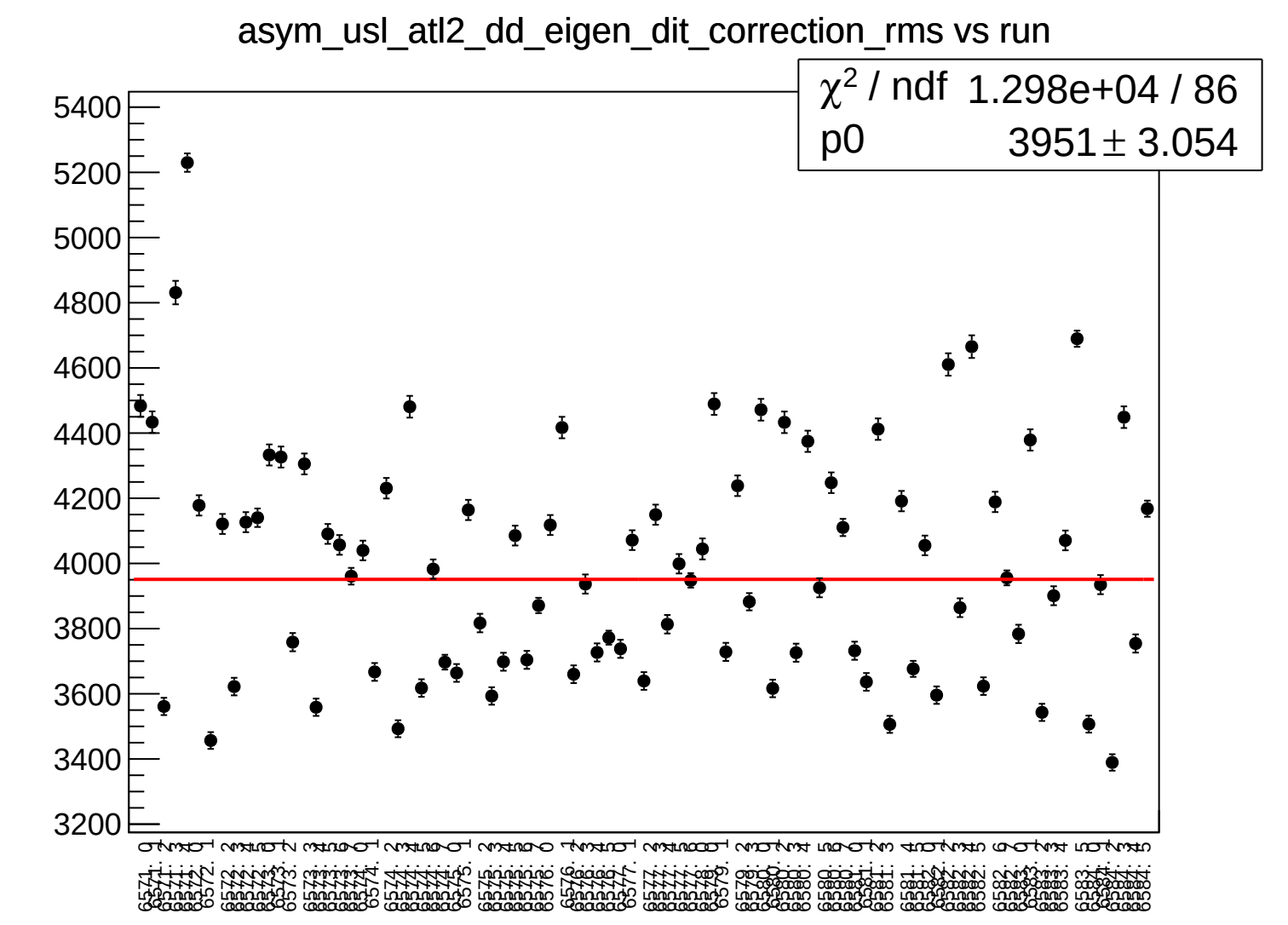

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 91.52 / 86
p0 −662.4 ± 1508
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 110.8
Std Dev 53.83
2
1
0
−1
−2

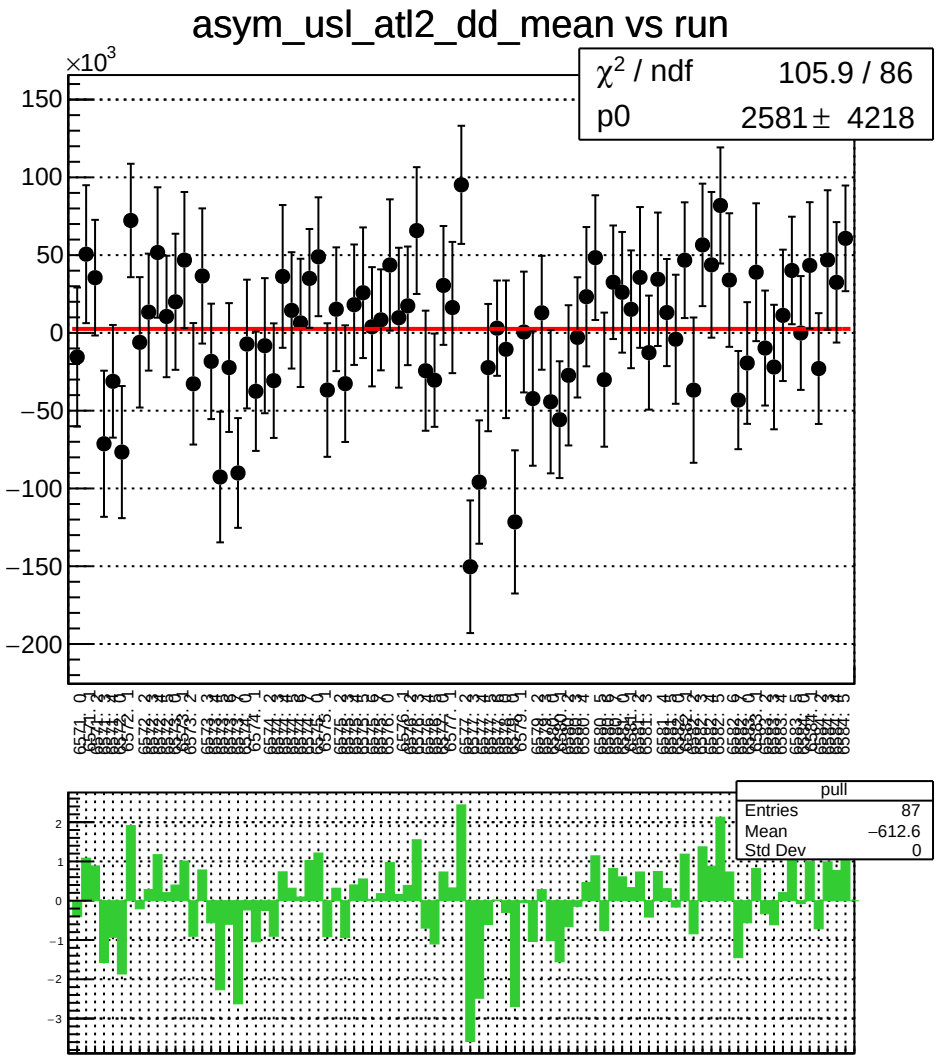

pull1D
Entries 87
Mean −0.00687
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

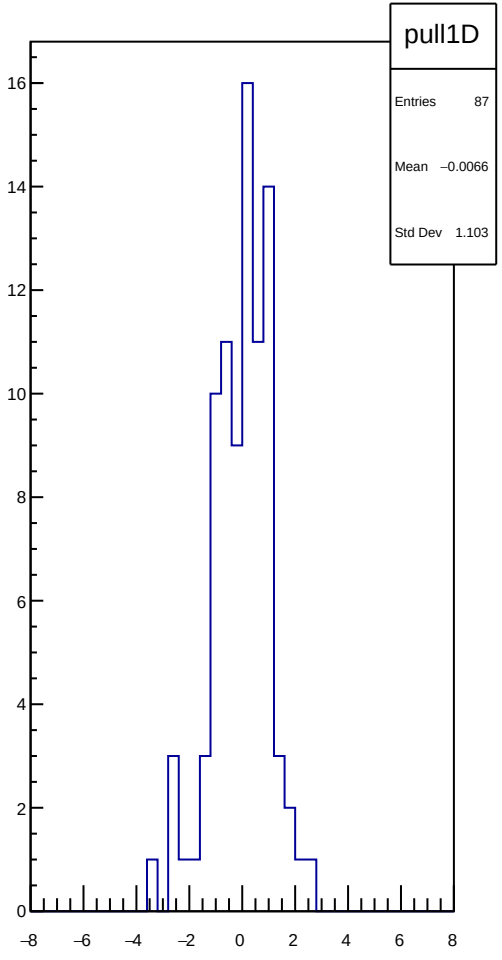

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1436 / 86
p0 1384 ± 1.066
1600
1550
1500
1450
1400
1350
1300

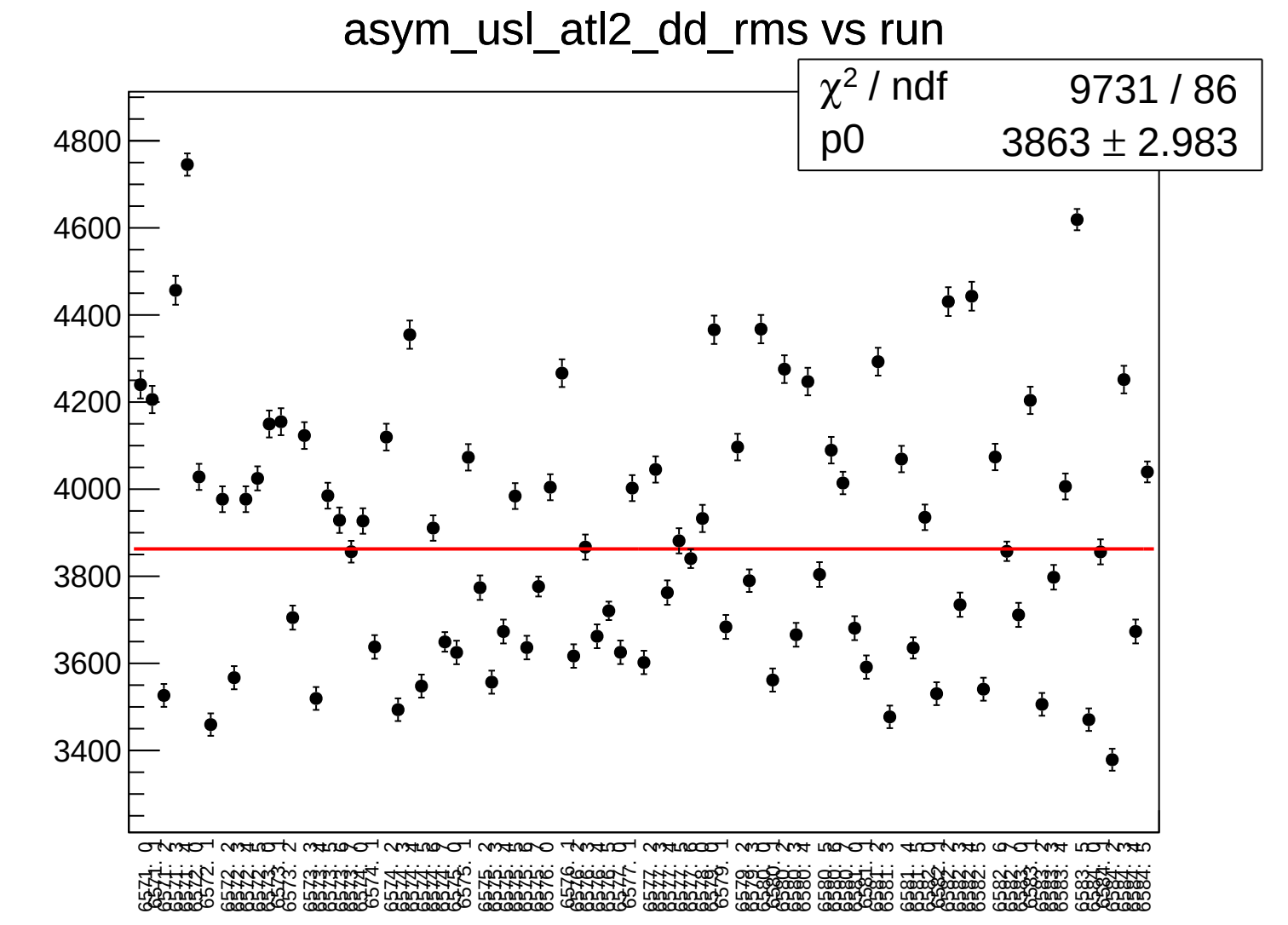

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.3 / 86
p0 −3286 ± 4319
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −900.6
Std Dev 0
2
1
0
−1
−2

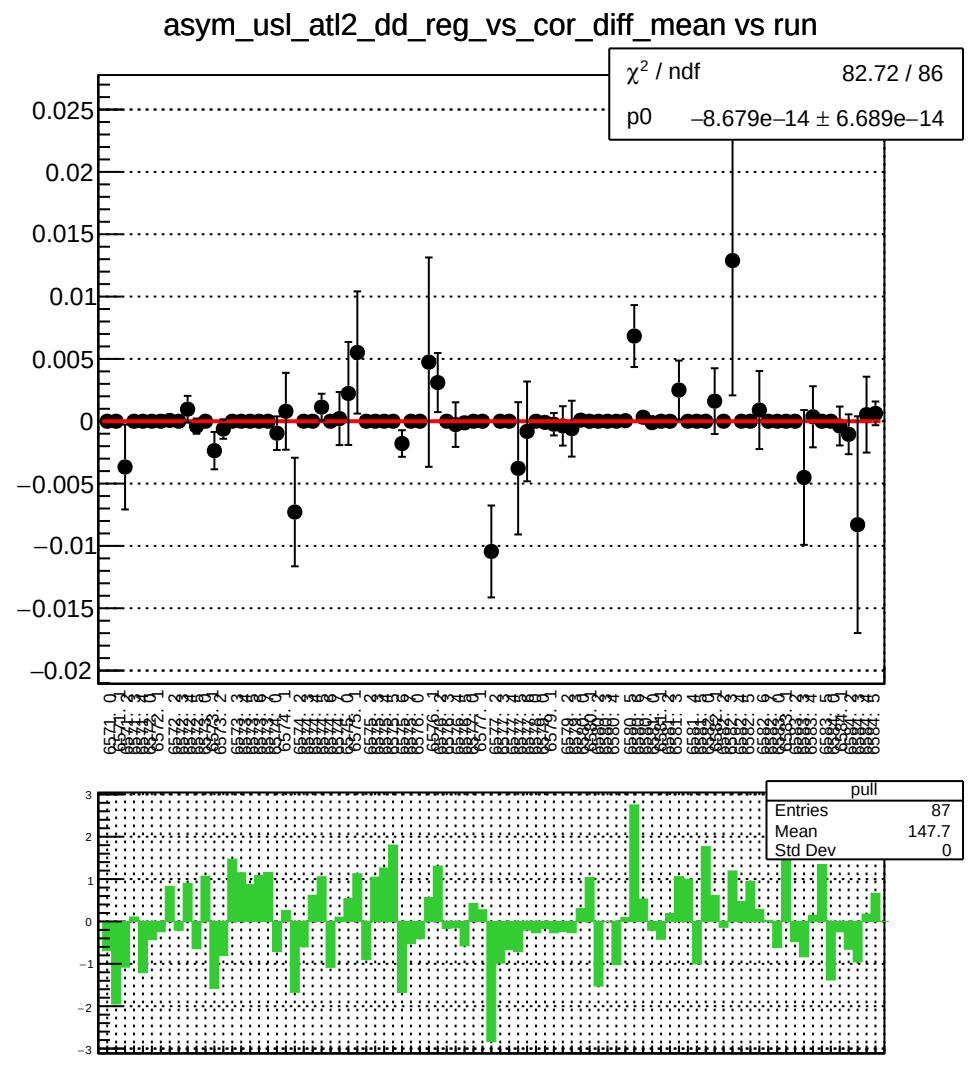

pull1D
Entries 87
Mean 0.004653
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

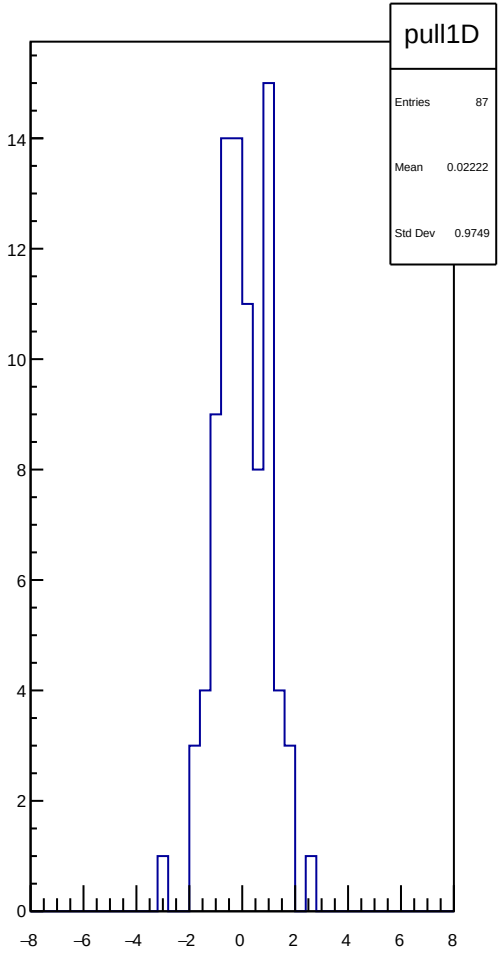

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.298e+04 / 86
p0 3951 ± 3.054
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

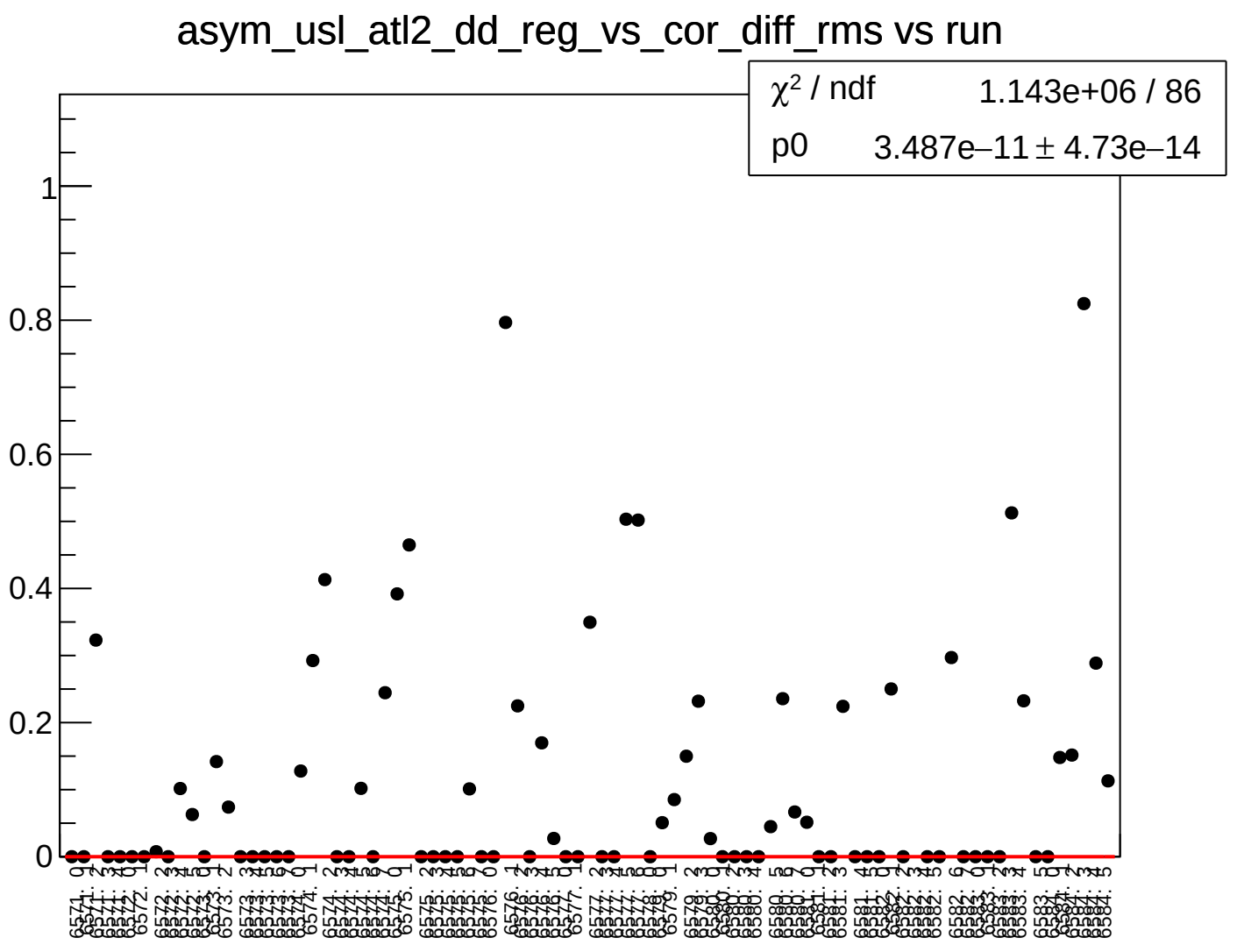

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 105.9 / 86
p0 2581 ± 4218
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −612.6
Std Dev 0
2
1
0
−1
−2
−3

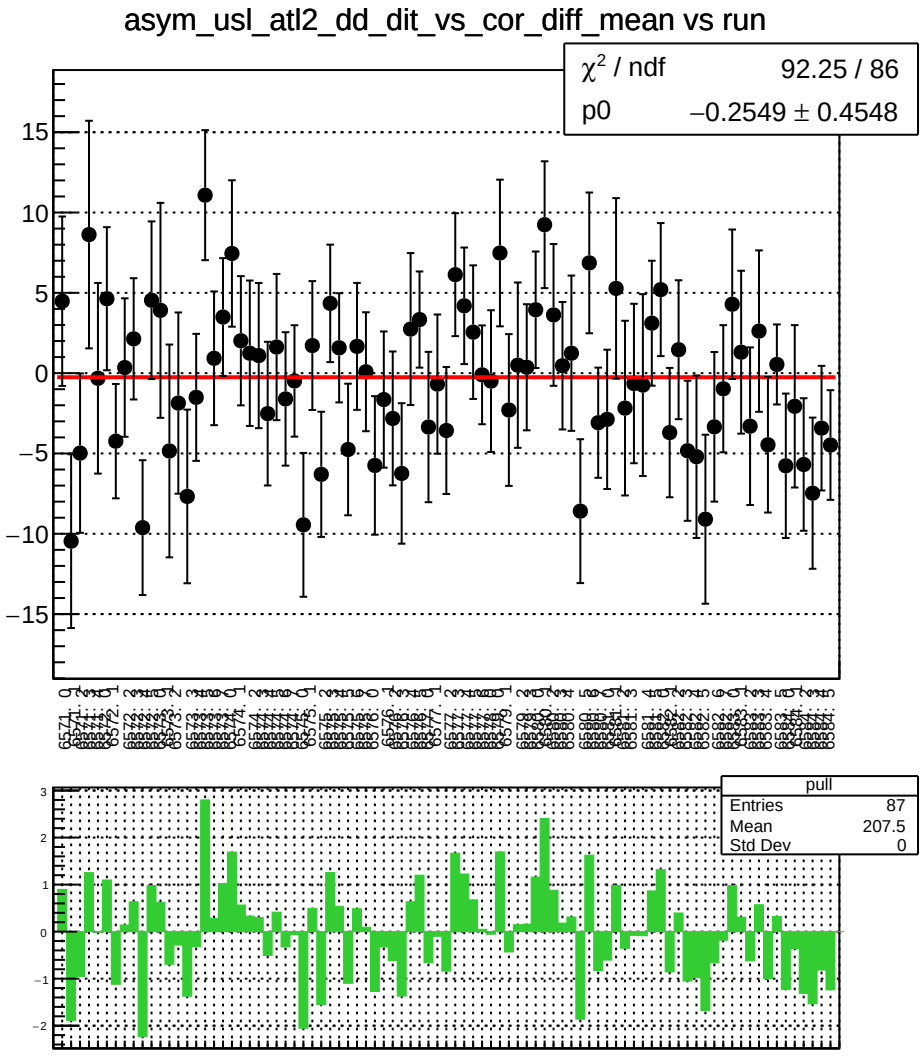

pull1D
Entries 87
Mean −0.0066
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

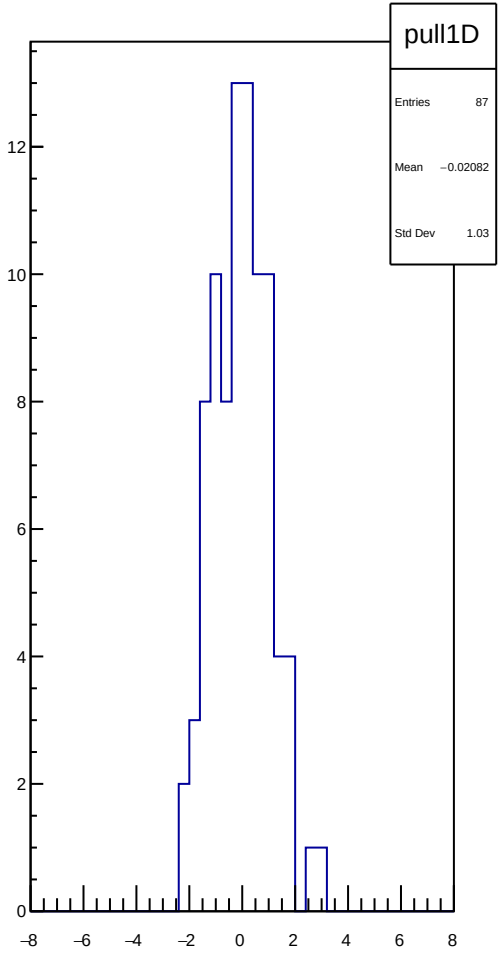

asym_usl_atl2_dd_rms vs run
χ² / ndf 9731 / 86
p0 3863 ± 2.983
4800
4600
4400
4200
4000
3800
3600
3400

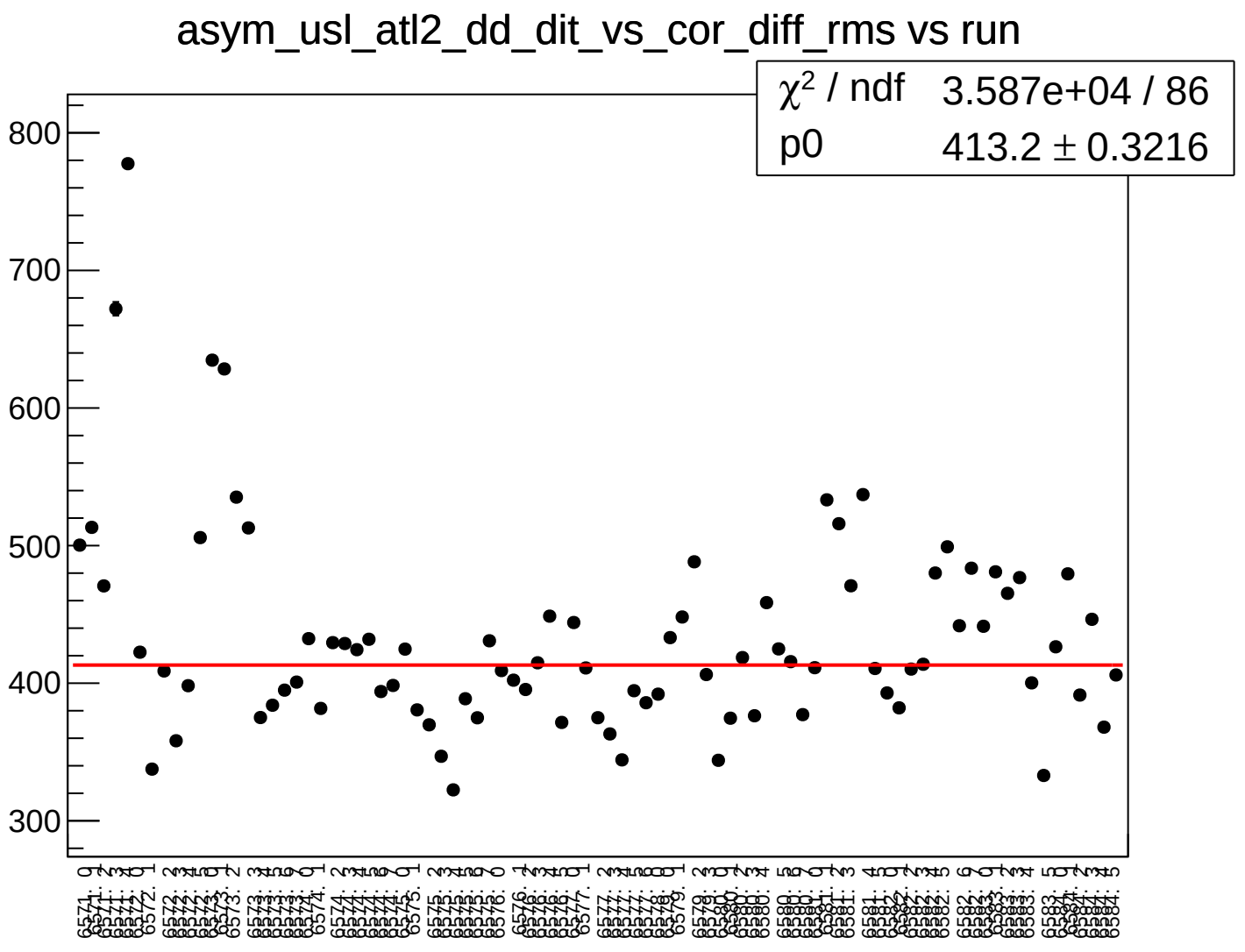

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.72 / 86
p0 −8.679e−14 ± 6.689e−14
pull
Entries 87
Mean 147.7
Std Dev 0

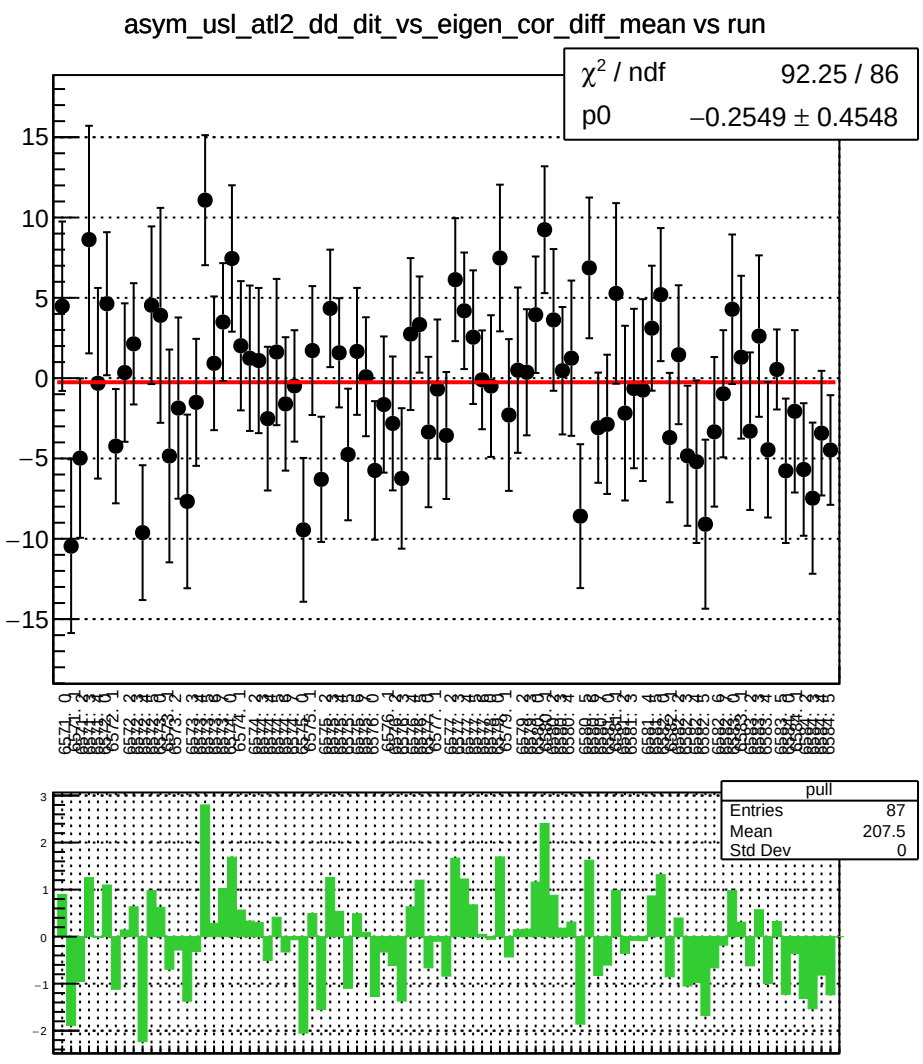

pull1D
Entries 87
Mean 0.02222
Std Dev 0.9749

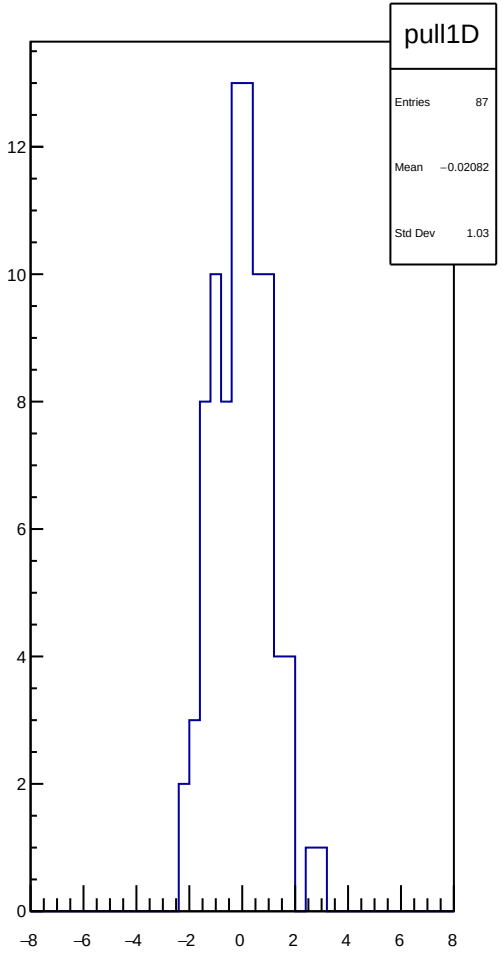

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.143e+06 / 86
p0 3.487e−11 ± 4.73e−14
1
0.8
0.6
0.4
0.2
0

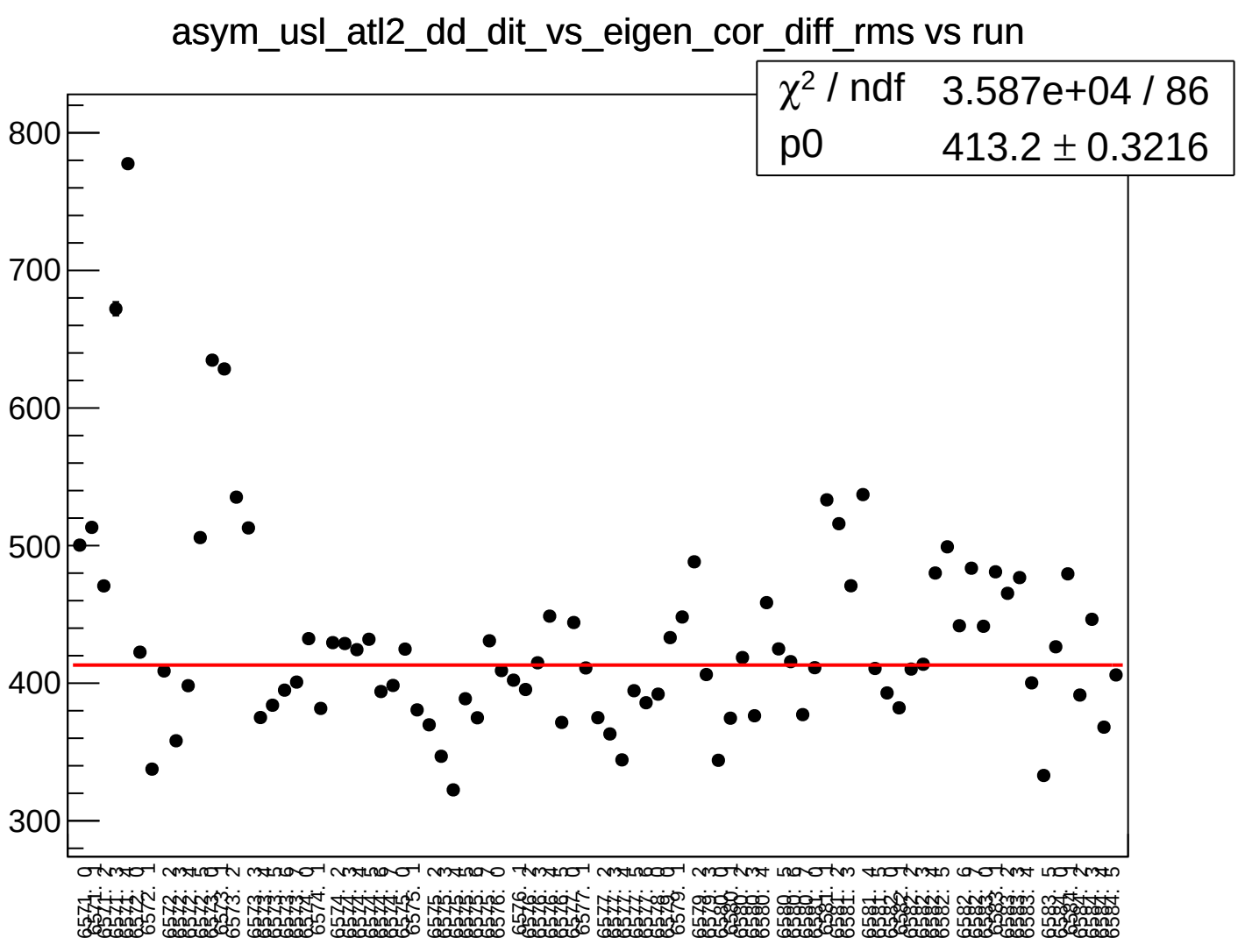

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.25 / 86
p0 −0.2549 ± 0.4548
pull
Entries 87
Mean 207.5
Std Dev 0

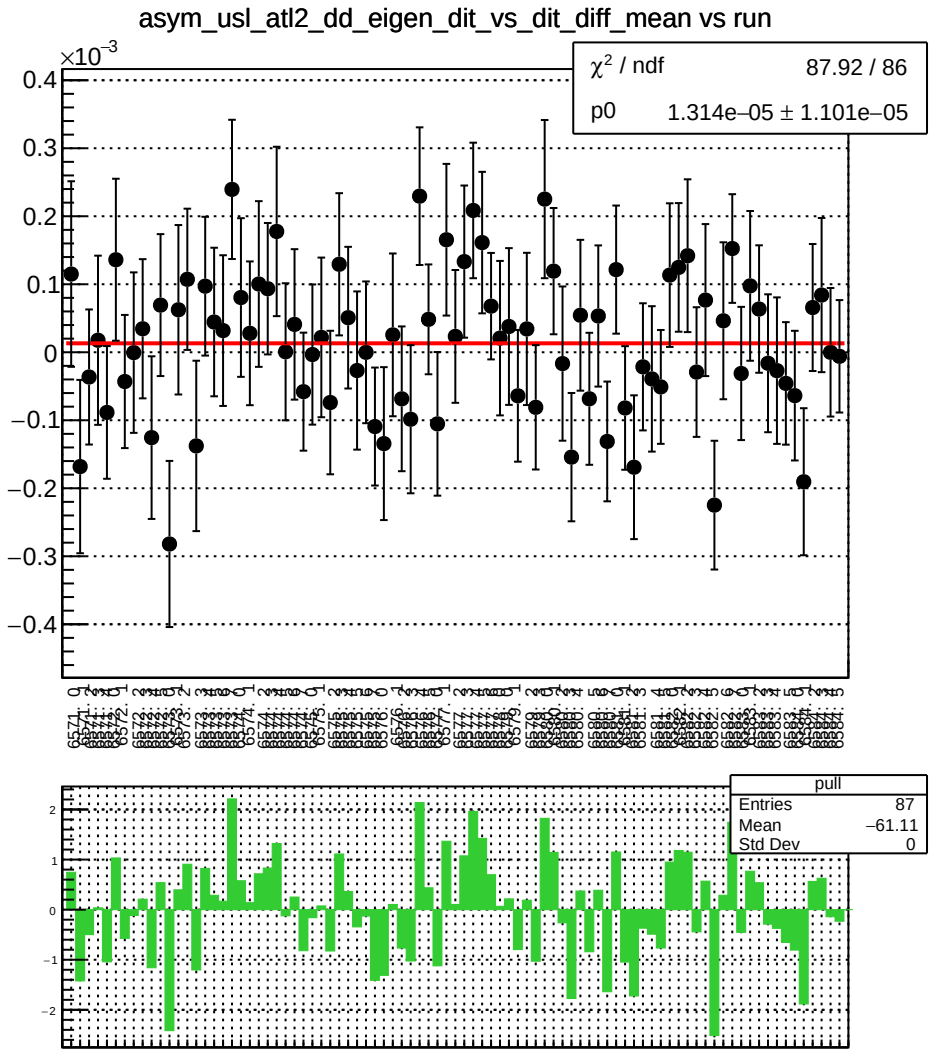

pull1D
Entries 87
Mean −0.02082
Std Dev 1.03

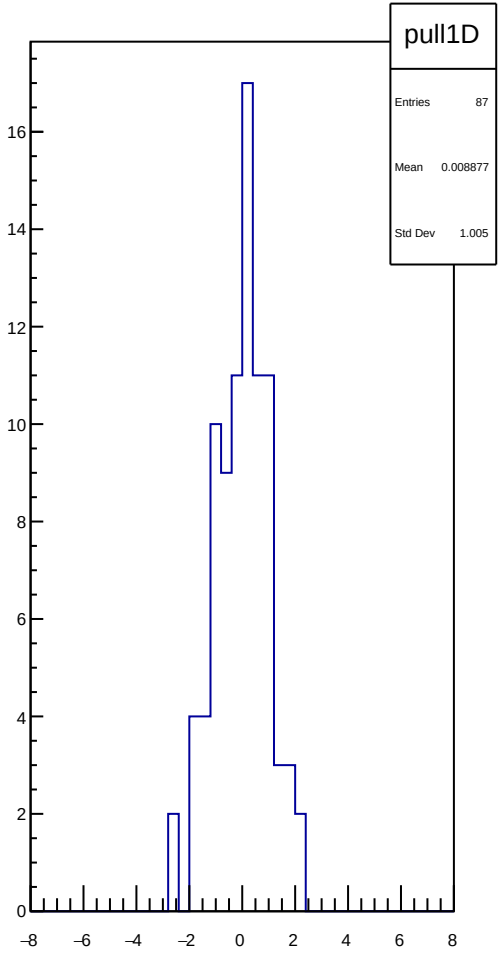

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.587e+04 / 86
p0 413.2 ± 0.3216
800
700
600
500
400
300

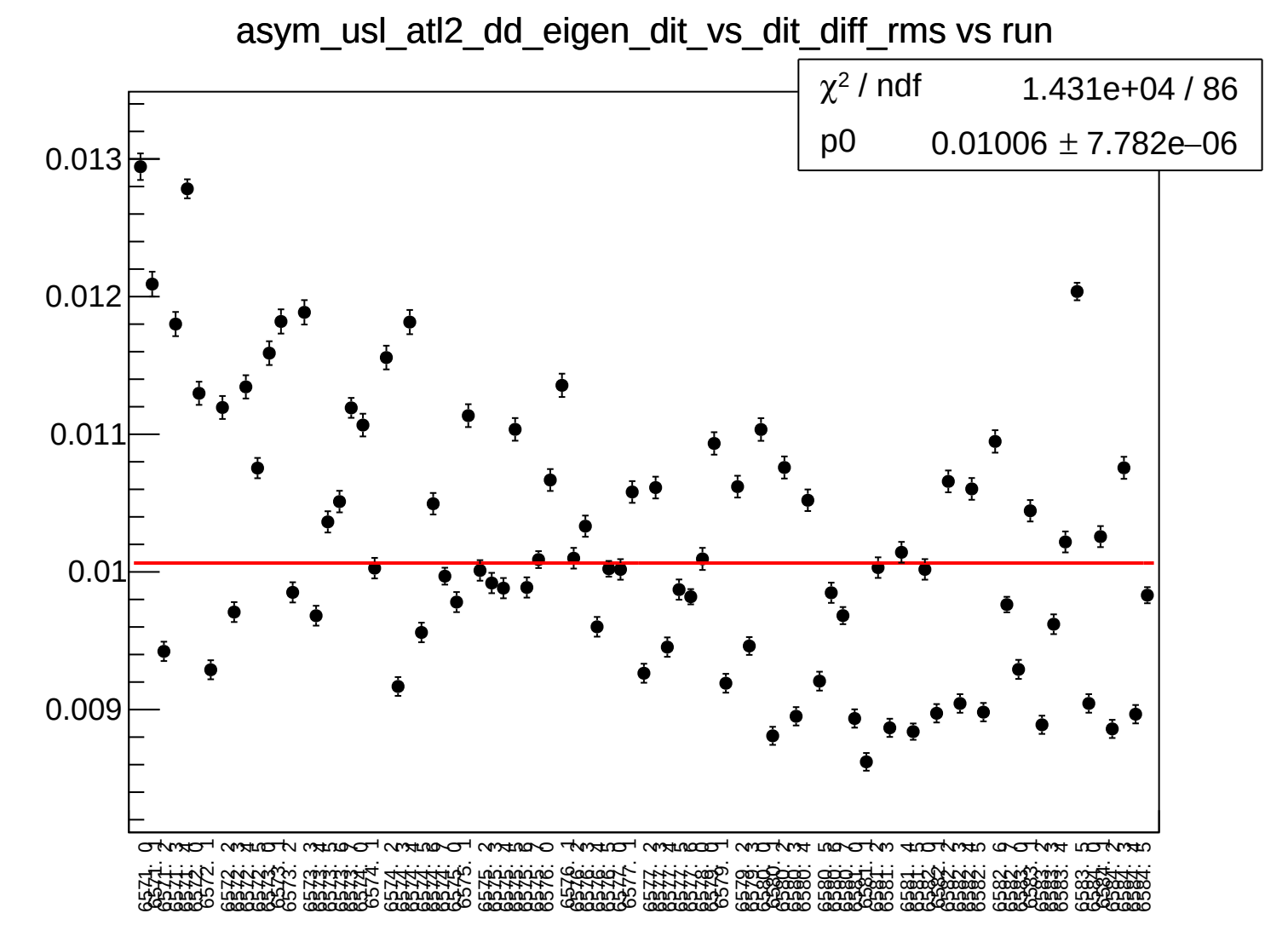

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.25 / 86
p0 −0.2549 ± 0.4548
pull
Entries 87
Mean 207.5
Std Dev 0

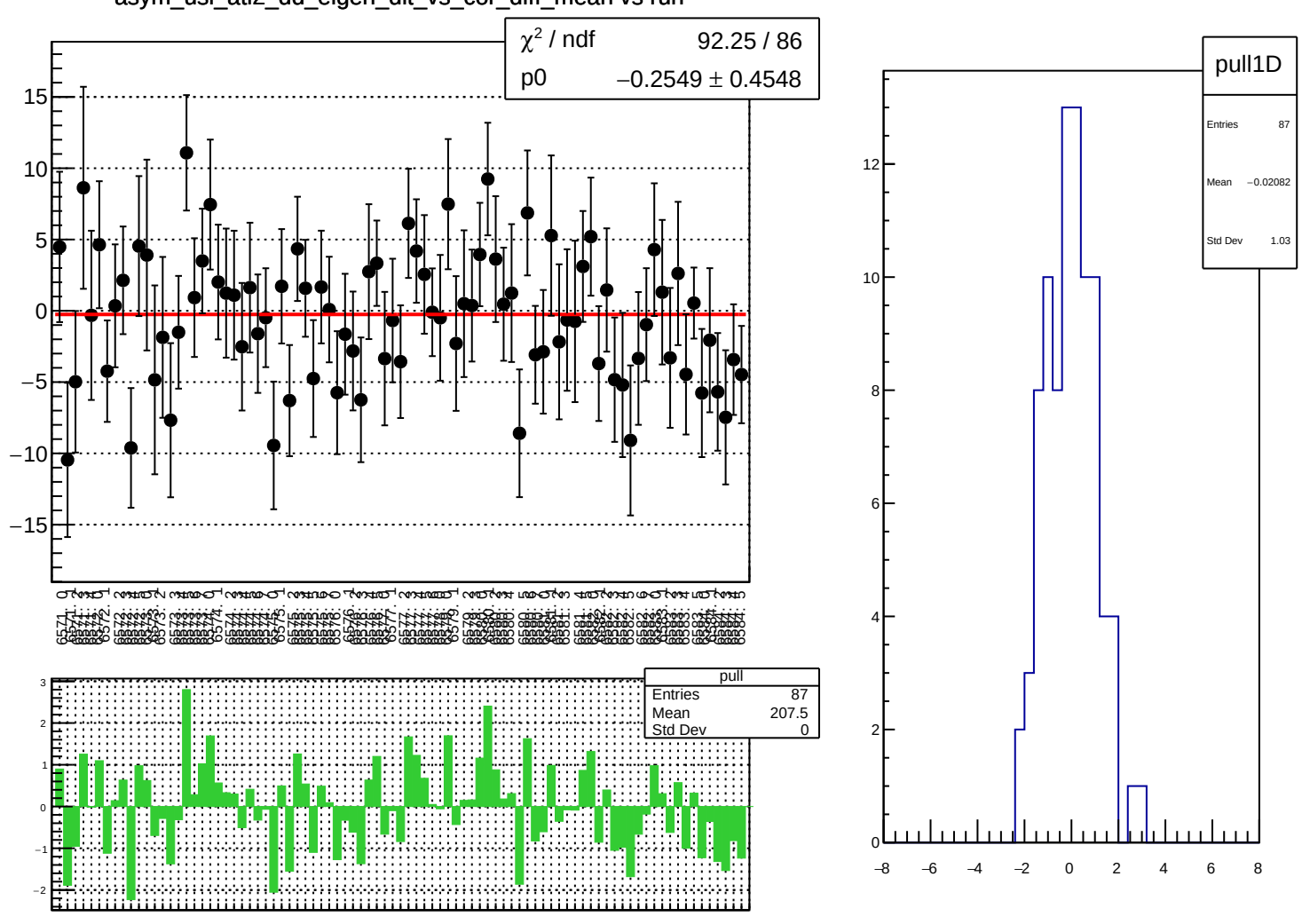

pull1D
Entries 87
Mean −0.02082
Std Dev 1.03

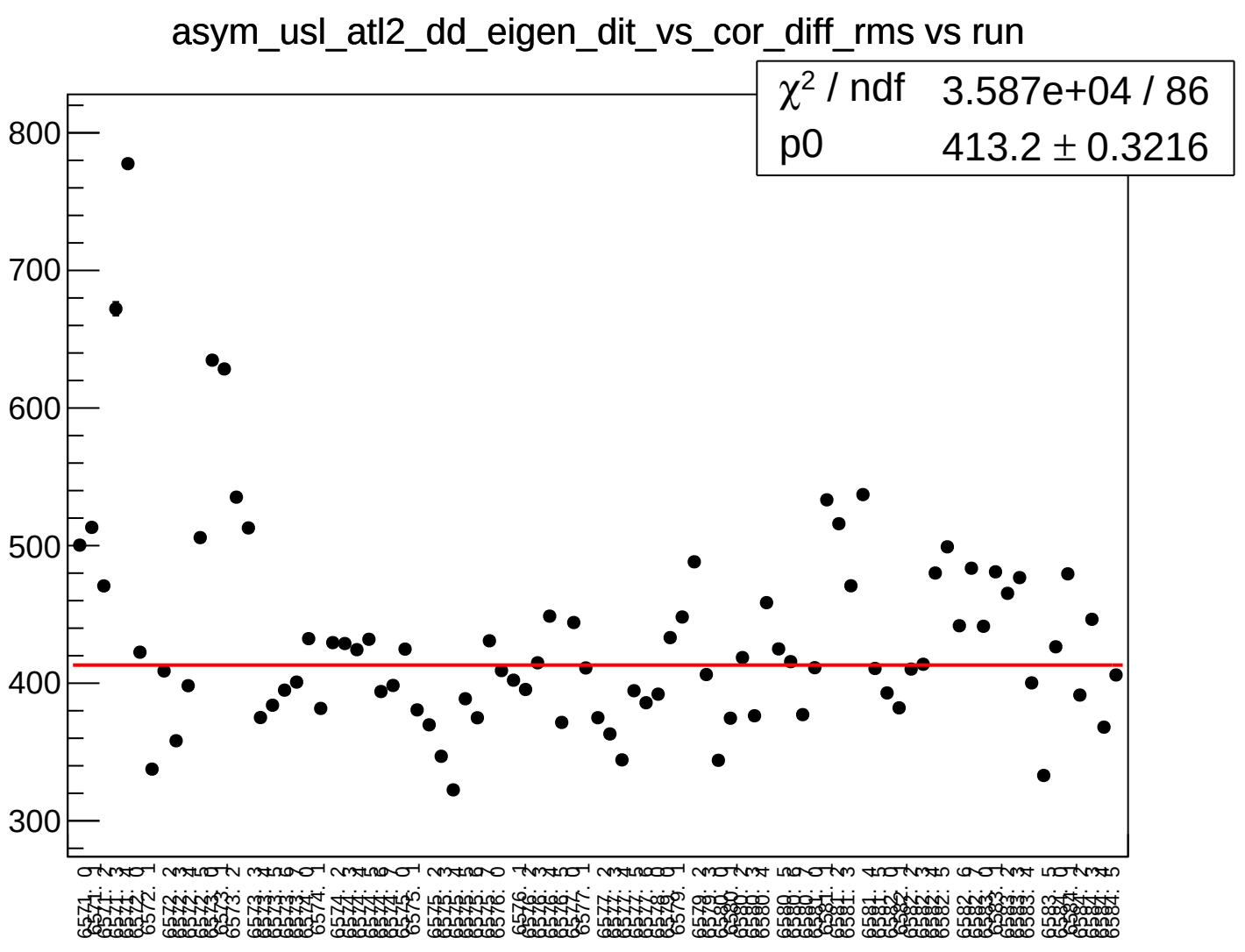

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.587e+04 / 86
p0 413.2 ± 0.3216
800
700
600
500
400
300

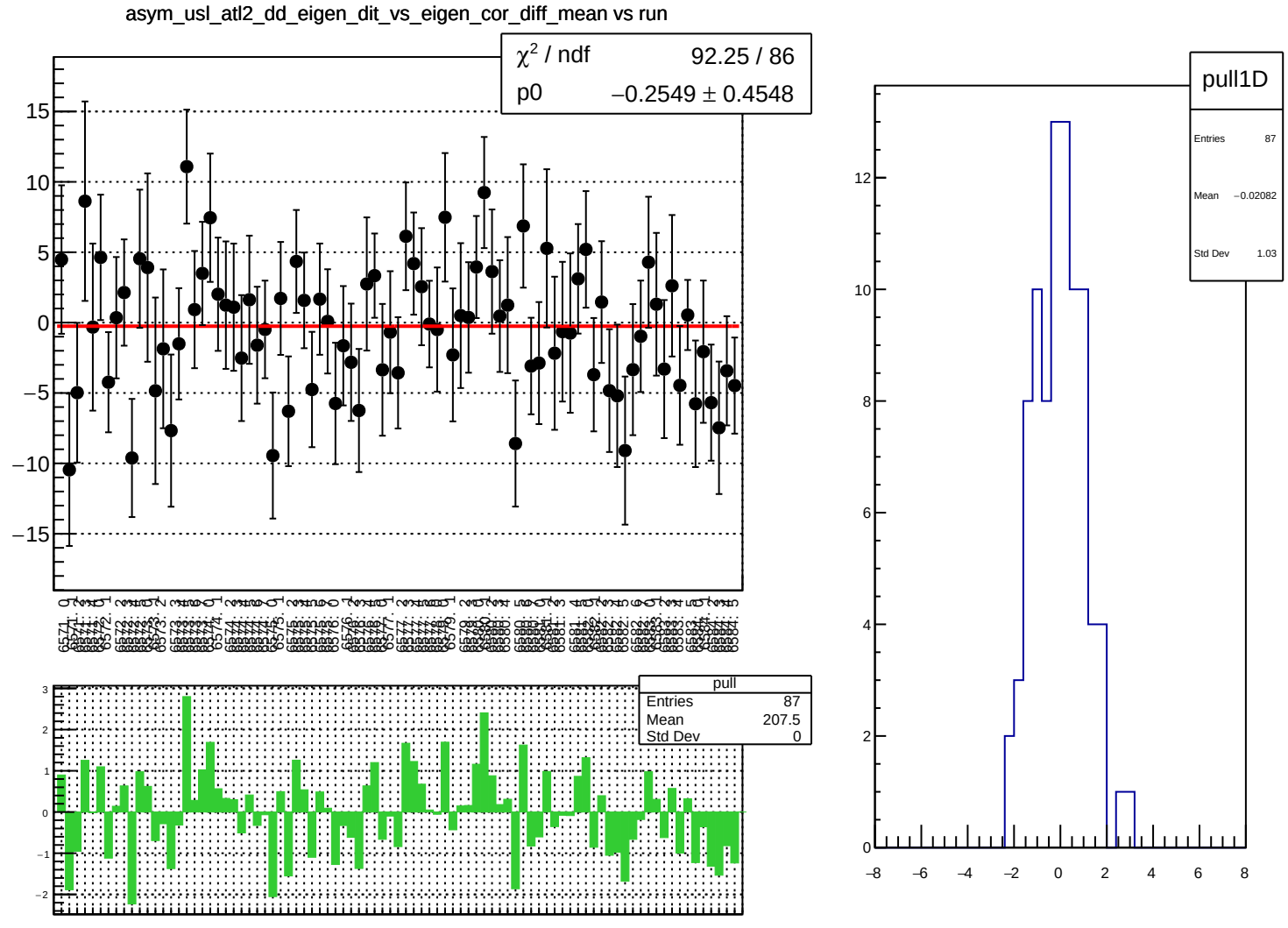

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.92 / 86
p0 1.314e−05 ± 1.101e−05
pull
Entries 87
Mean −61.11
Std Dev 0

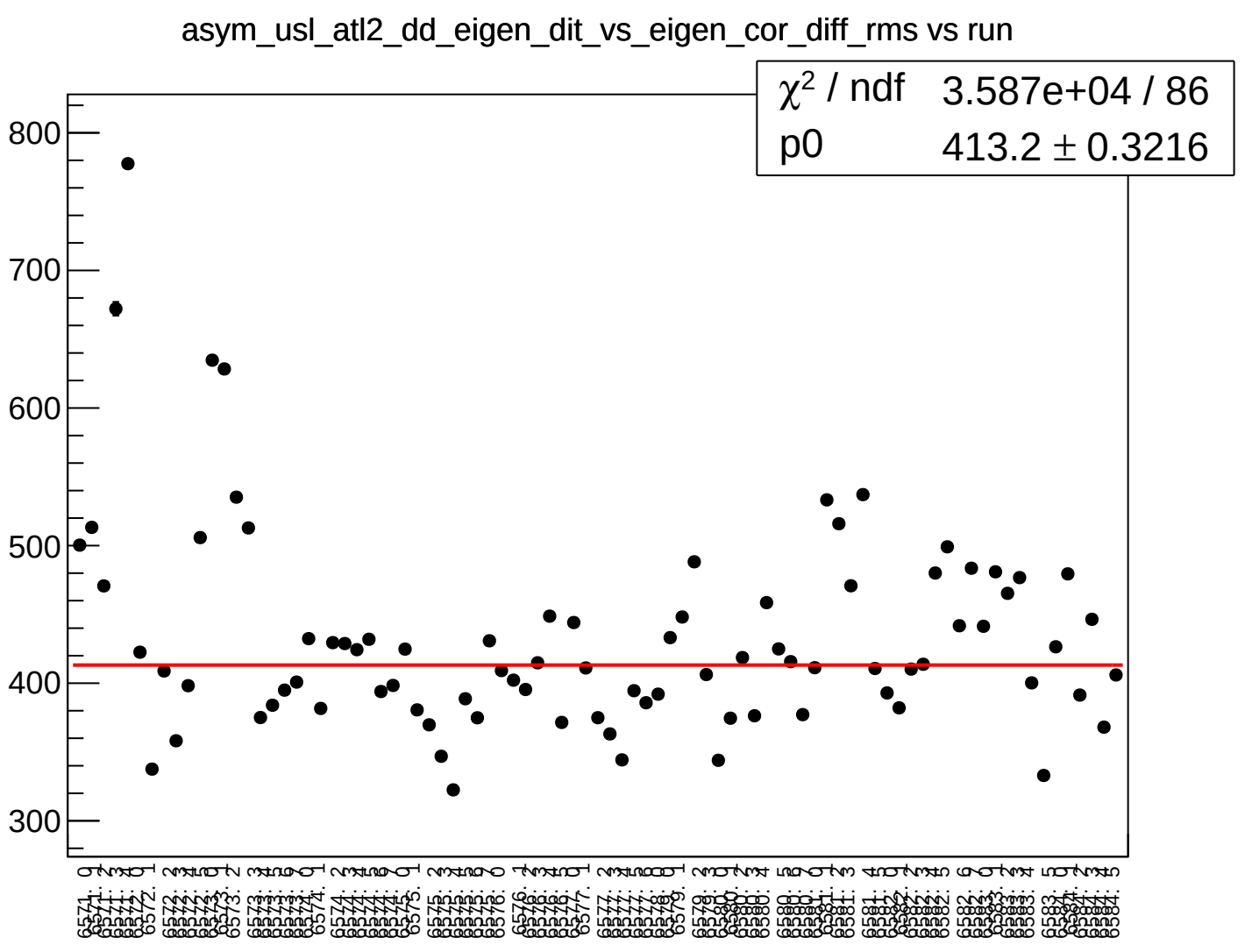

pull1D
Entries 87
Mean 0.008877
Std Dev 1.005

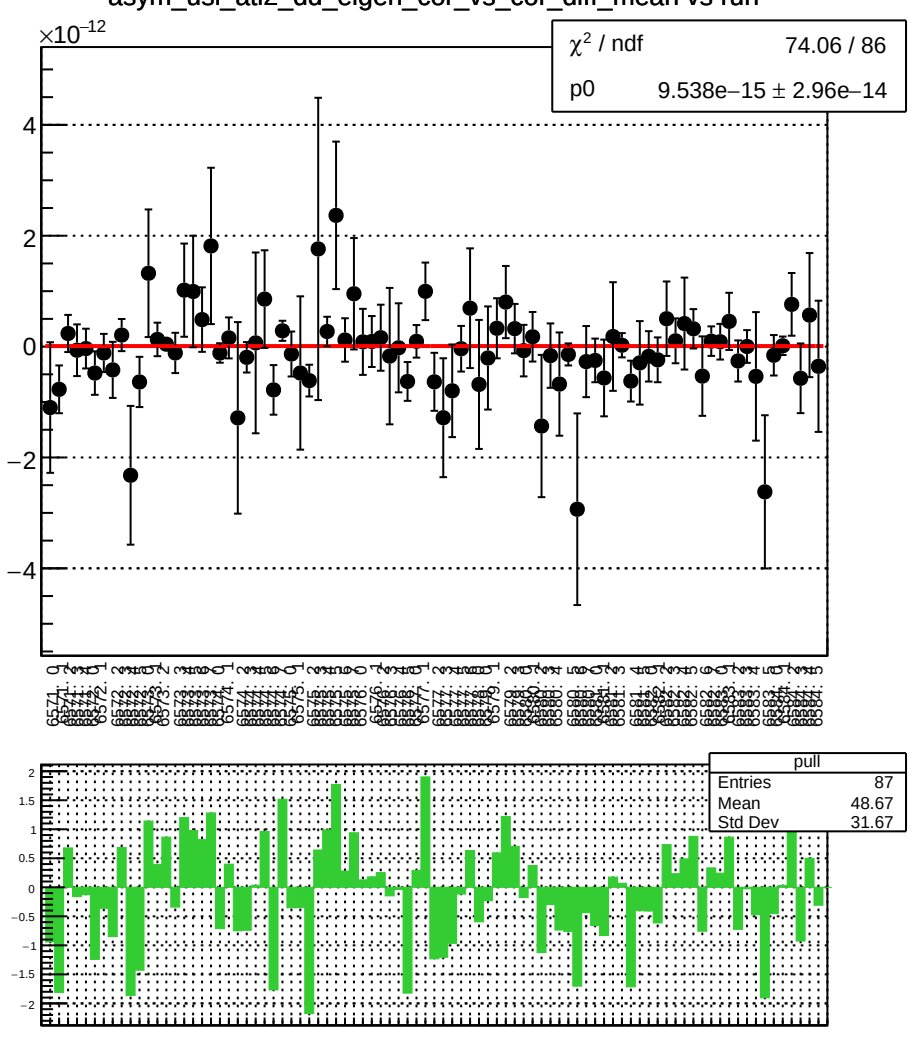

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.431e+04 / 86
p0 0.01006 ± 7.782e–06
0.013
0.012
0.011
0.01
0.009

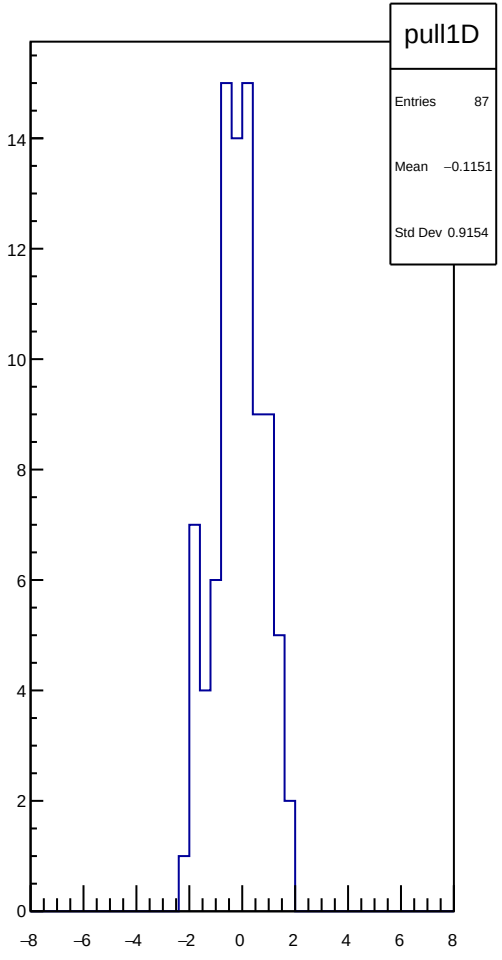

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.25 / 86
p0 −0.2549 ± 0.4548
pull
Entries 87
Mean 207.5
Std Dev 0
pull1D
Entries 87
Mean −0.02082
Std Dev 1.03

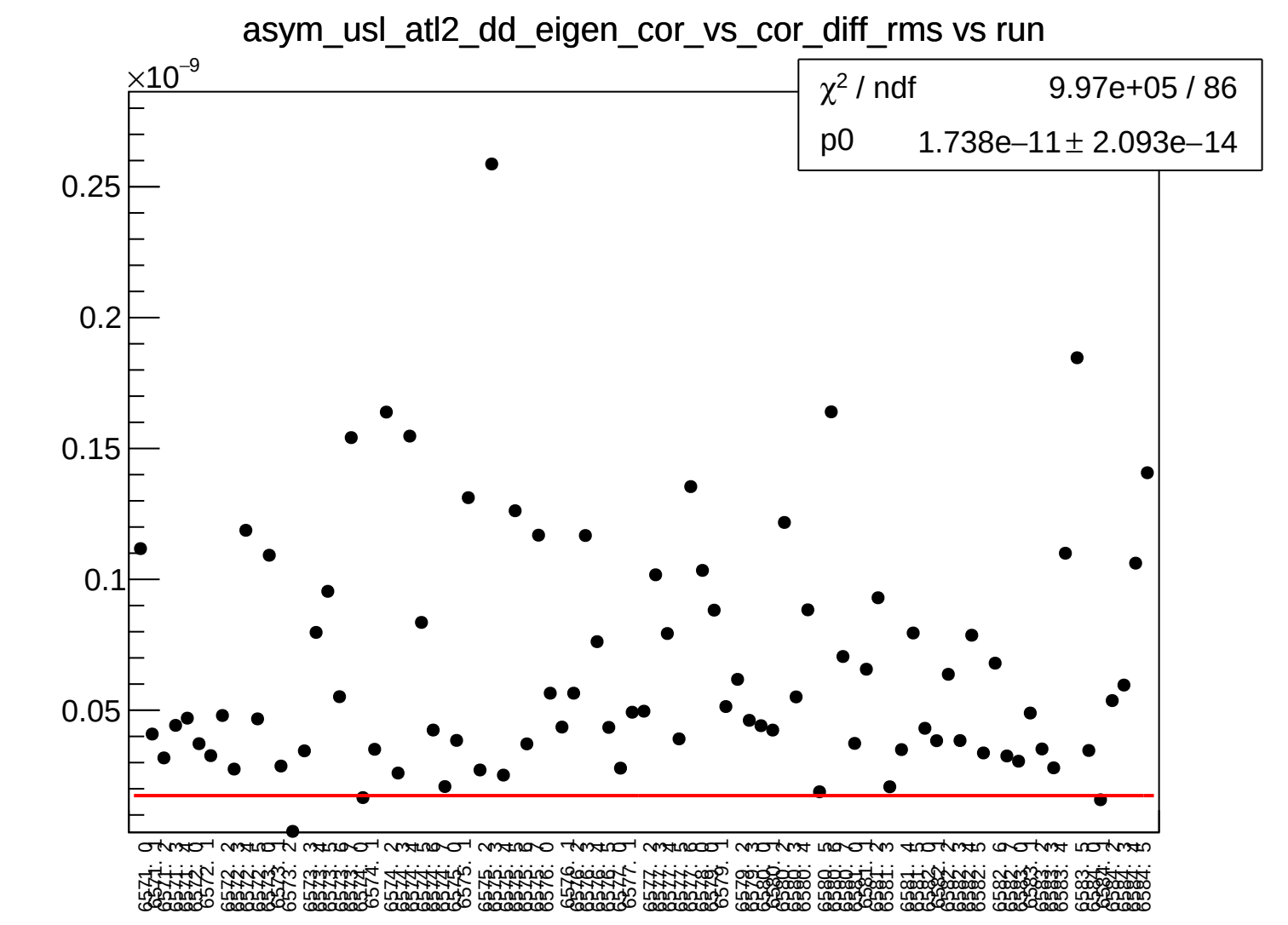

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.587e+04 / 86
p0 413.2 ± 0.3216
800
700
600
500
400
300

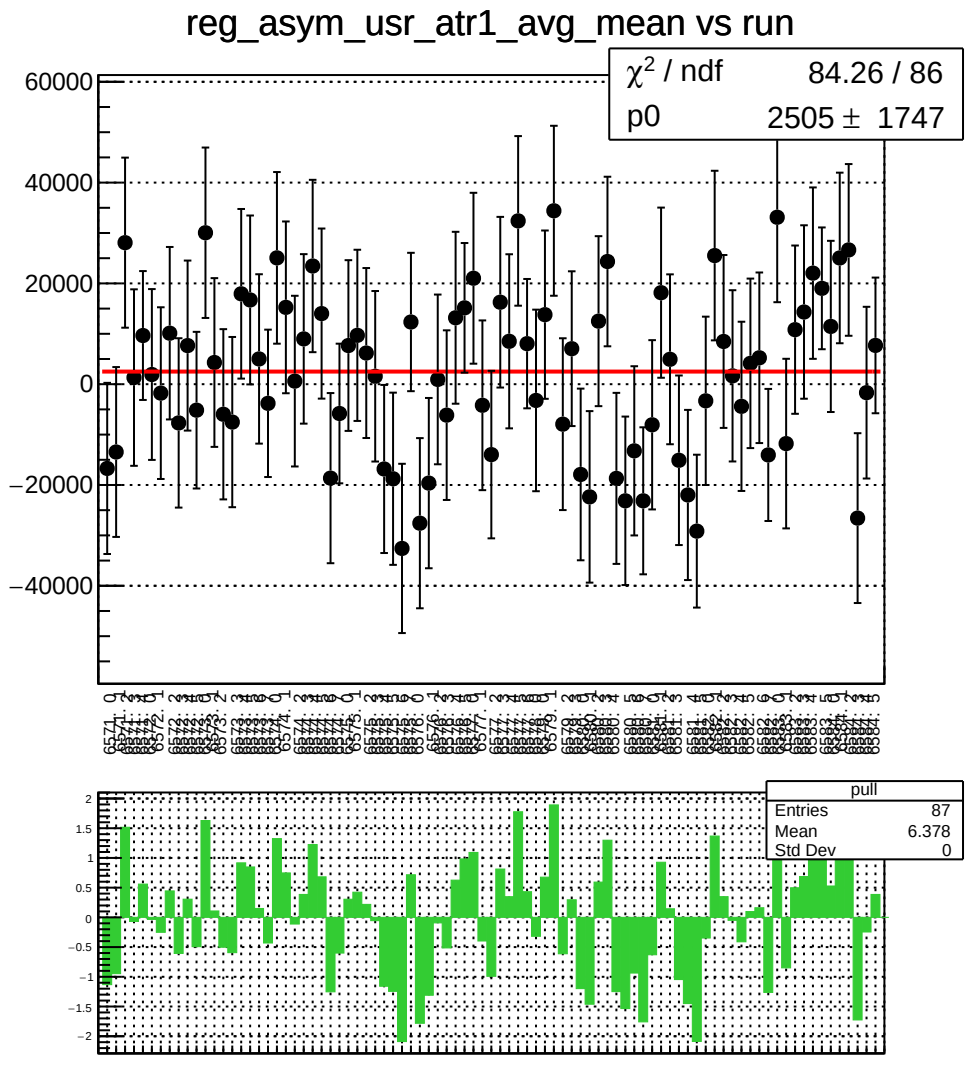

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.25 / 86
p0 −0.2549 ± 0.4548
pull
Entries 87
Mean 207.5
Std Dev 0
pull1D
Entries 87
Mean −0.02082
Std Dev 1.03

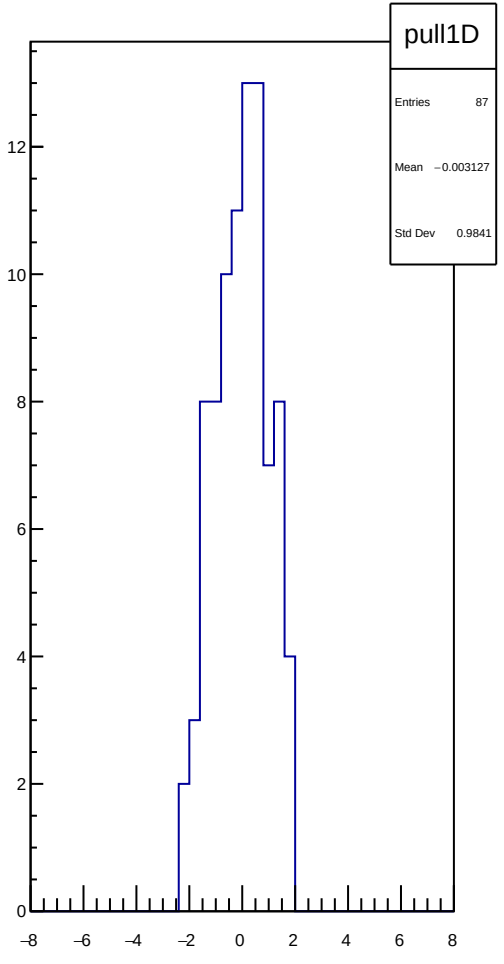

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.587e+04 / 86
p0 413.2 ± 0.3216
800
700
600
500
400
300

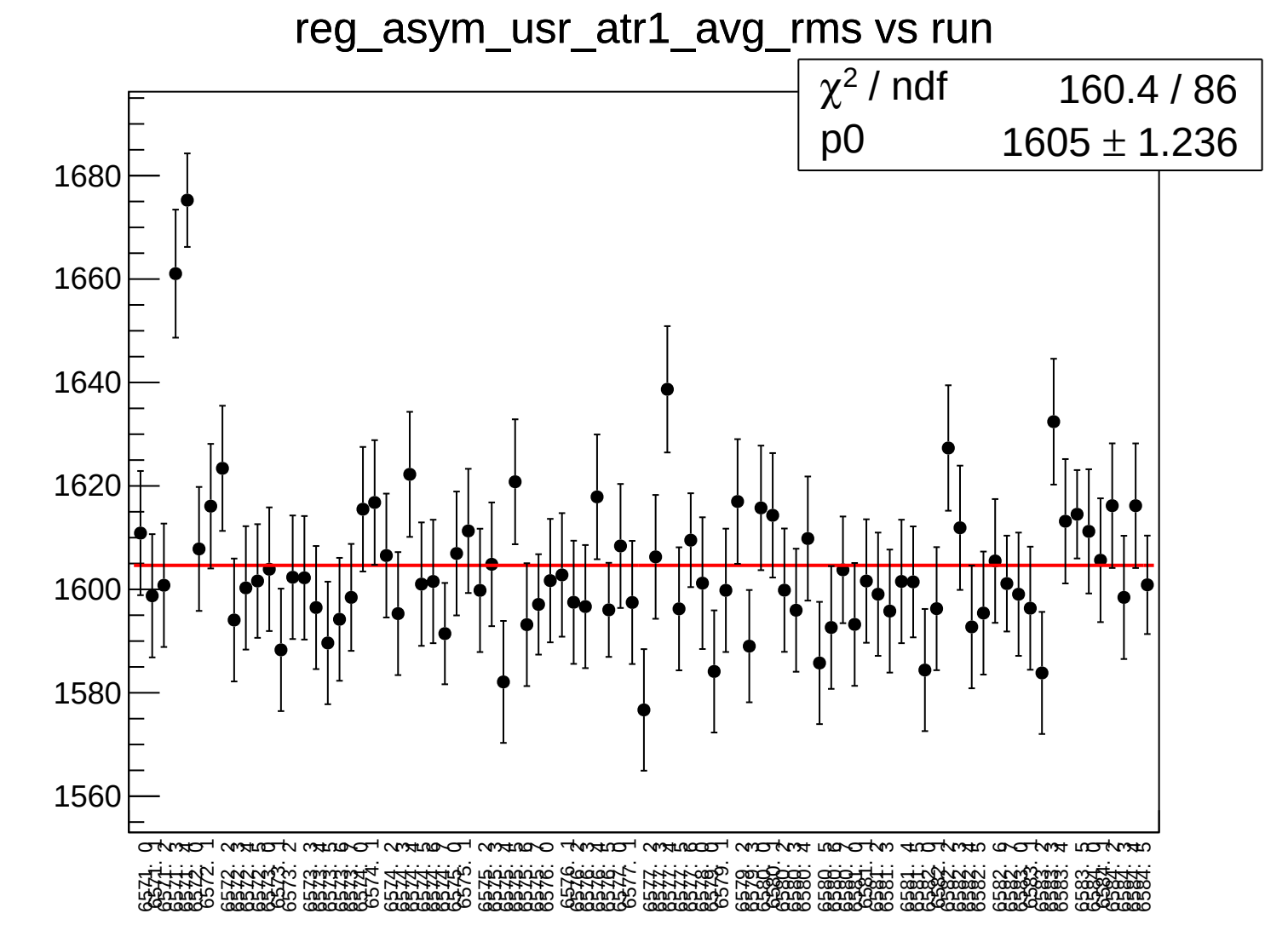

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.06 / 86
p0 9.538e−15 ± 2.96e−14
pull
Entries 87
Mean 48.67
Std Dev 31.67

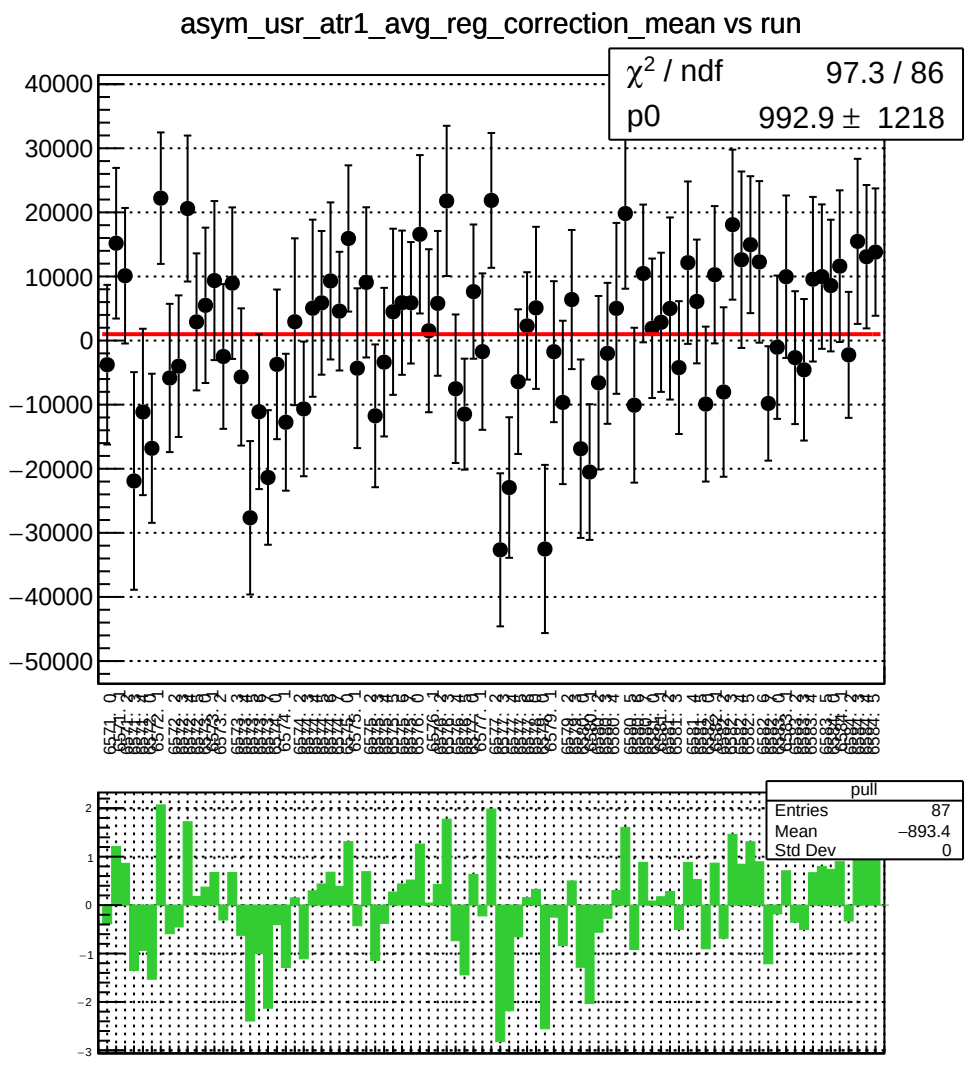

pull1D
Entries 87
Mean −0.1151
Std Dev 0.9154

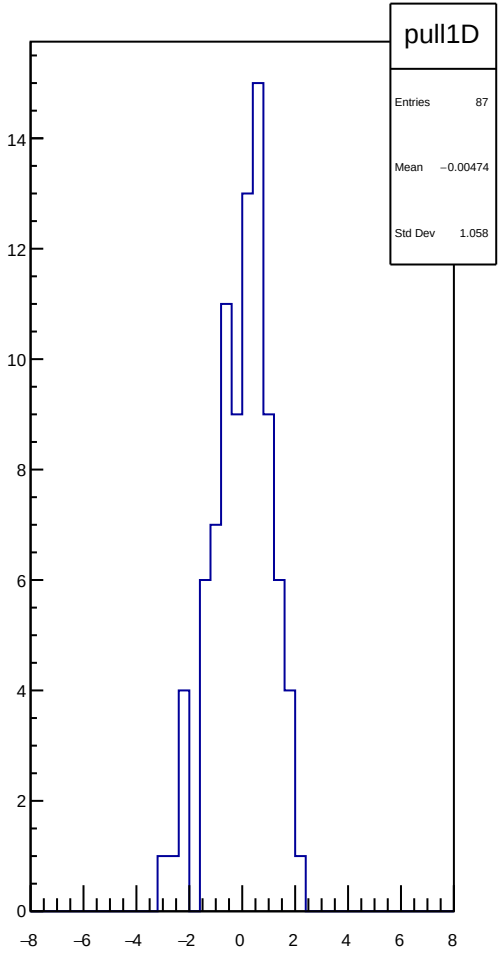

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.97e+05 / 86
p0 1.738e−11 ± 2.093e−14
0.25
0.2
0.15
0.1
0.05

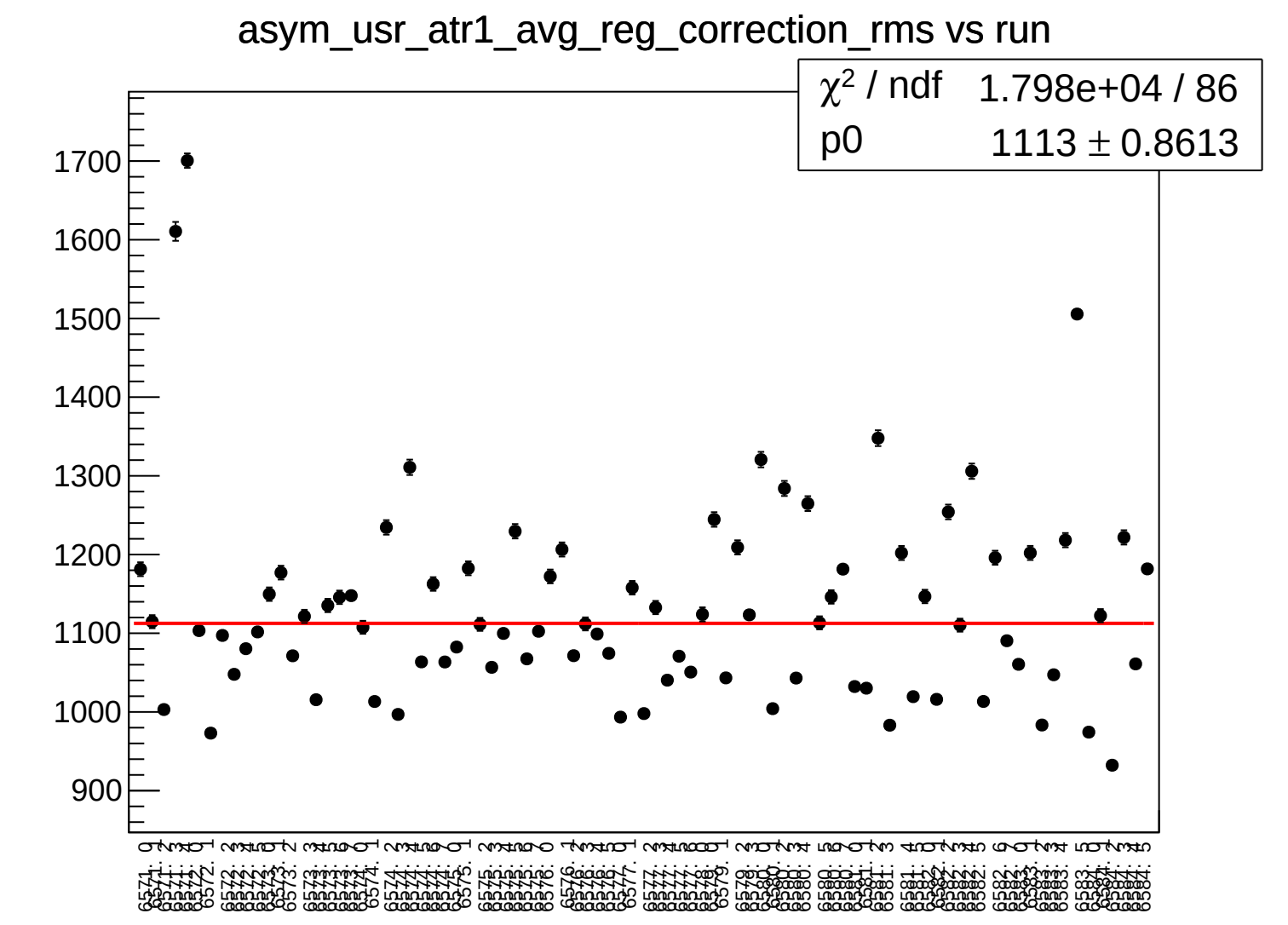

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 84.26 / 86
p0 2505 ± 1747
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 6.378
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

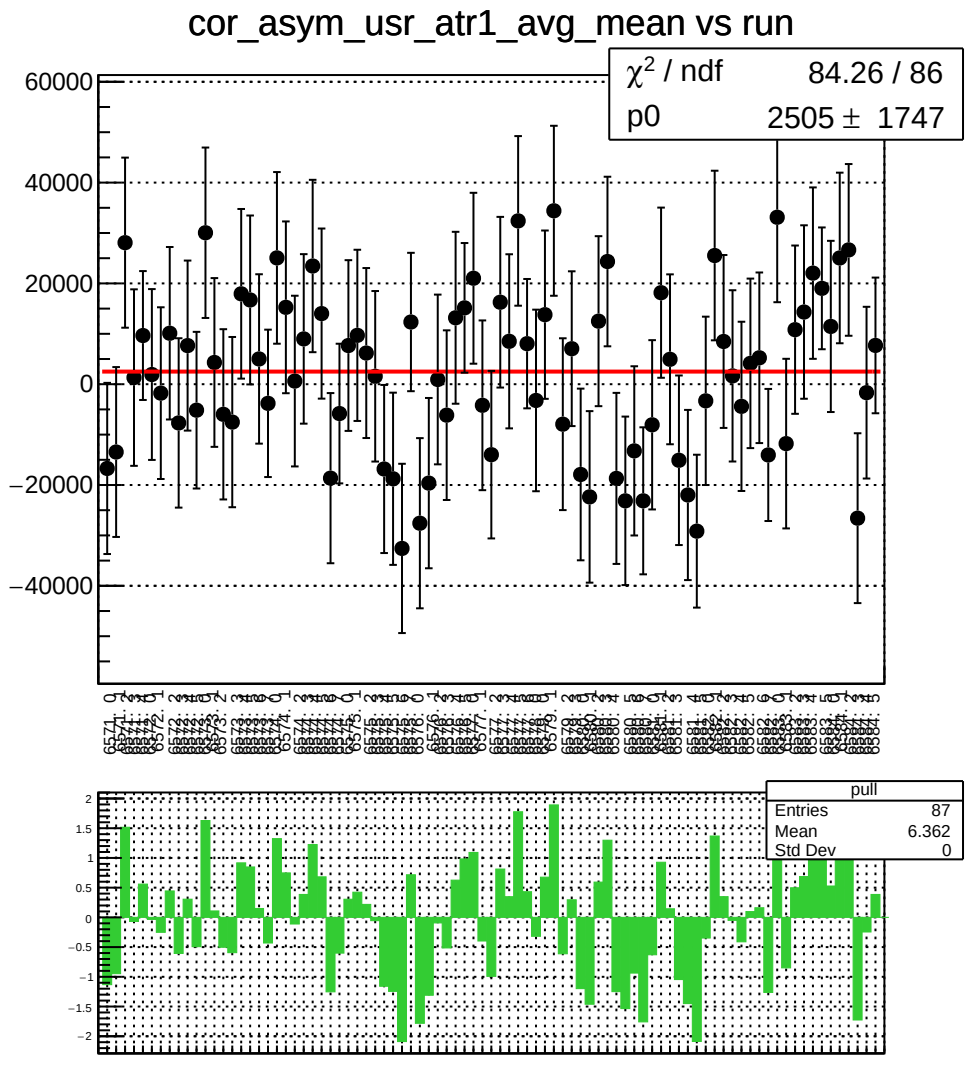

pull1D
Entries 87
Mean −0.003127
Std Dev 0.9841
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

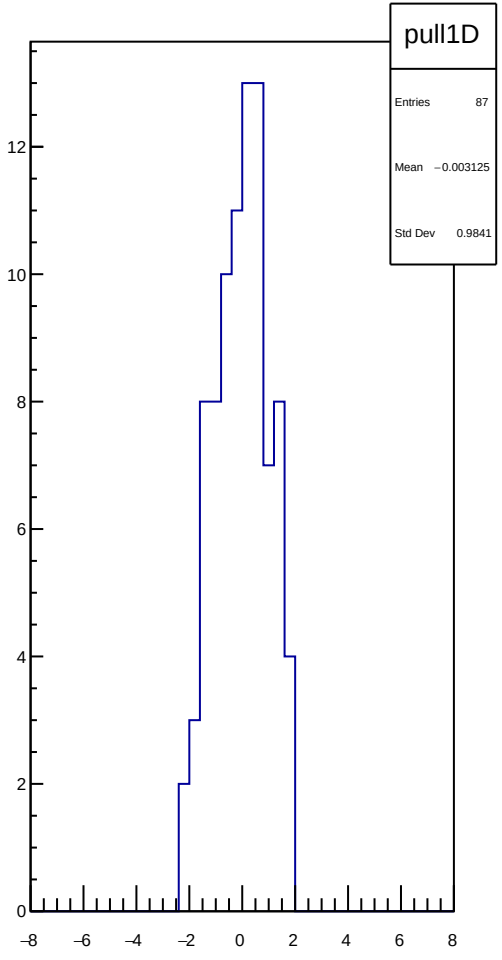

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 160.4 / 86
p0 1605 ± 1.236
1680
1660
1640
1620
1600
1580
1560

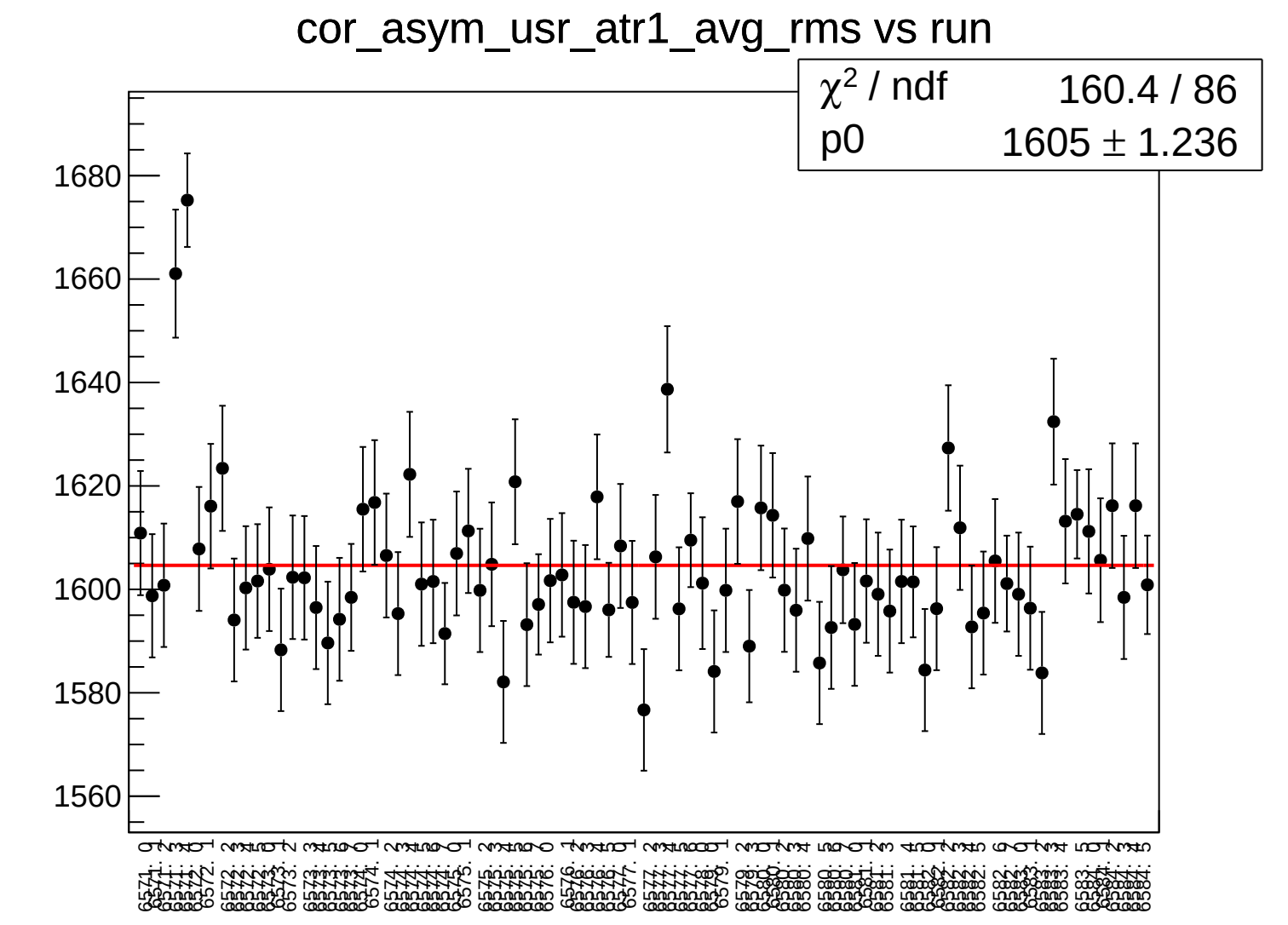

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 97.3 / 86
p0 992.9 ± 1218
pull
Entries 87
Mean −893.4
Std Dev 0

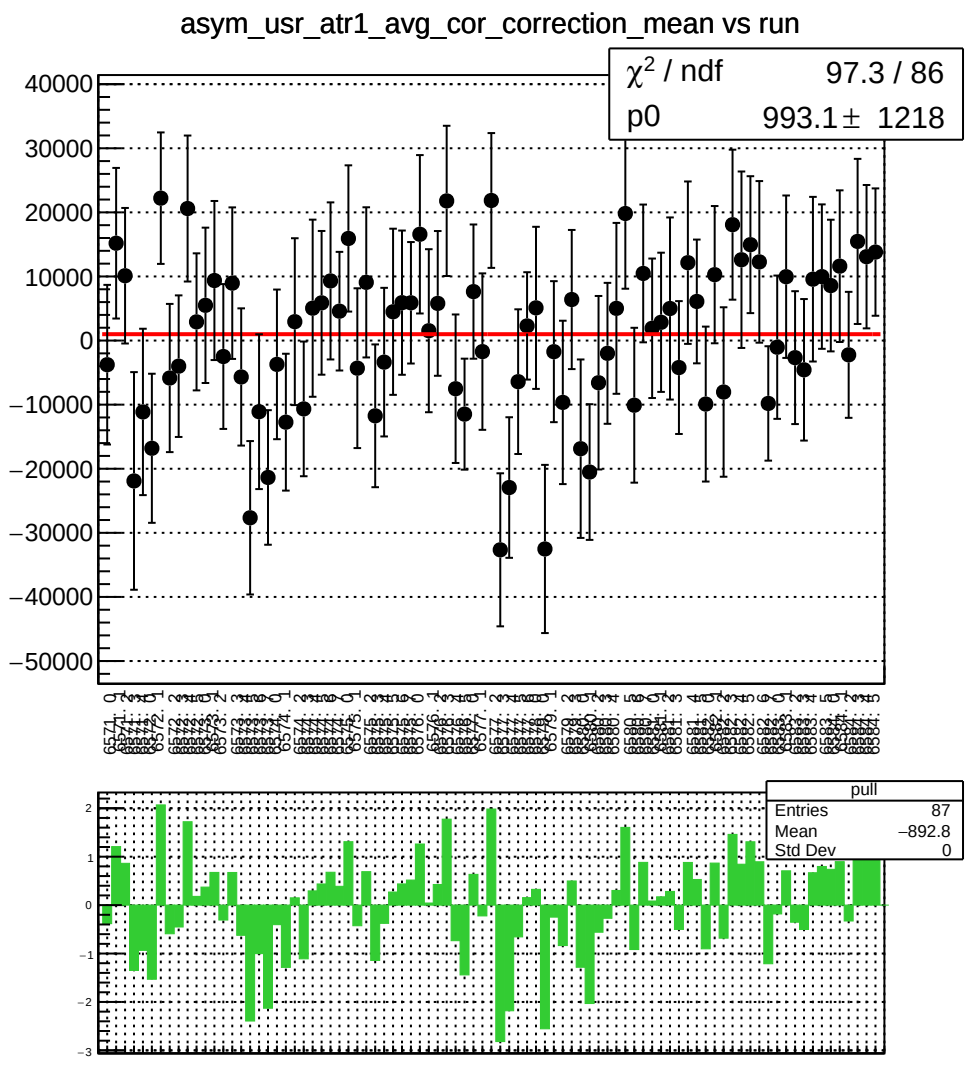

pull1D
Entries 87
Mean −0.00474
Std Dev 1.058

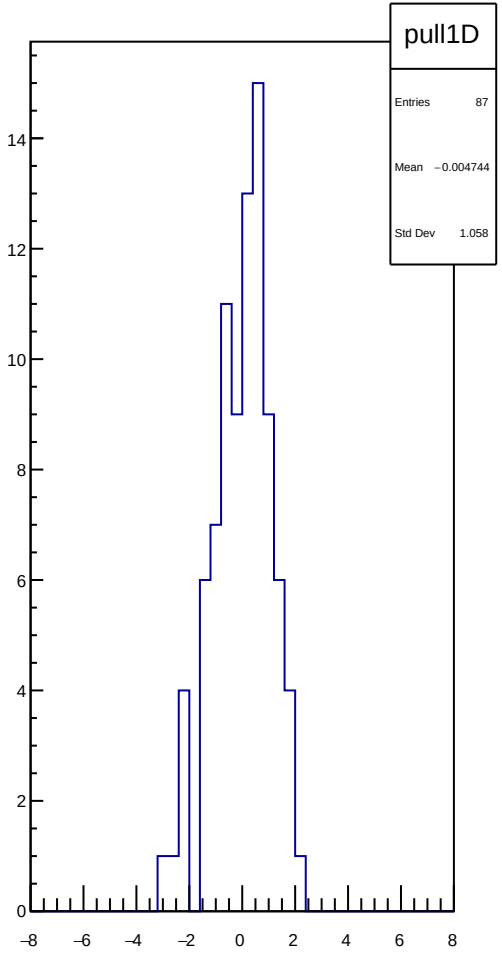

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.798e+04 / 86
p0 1113 ± 0.8613
1700
1600
1500
1400
1300
1200
1100
1000
900

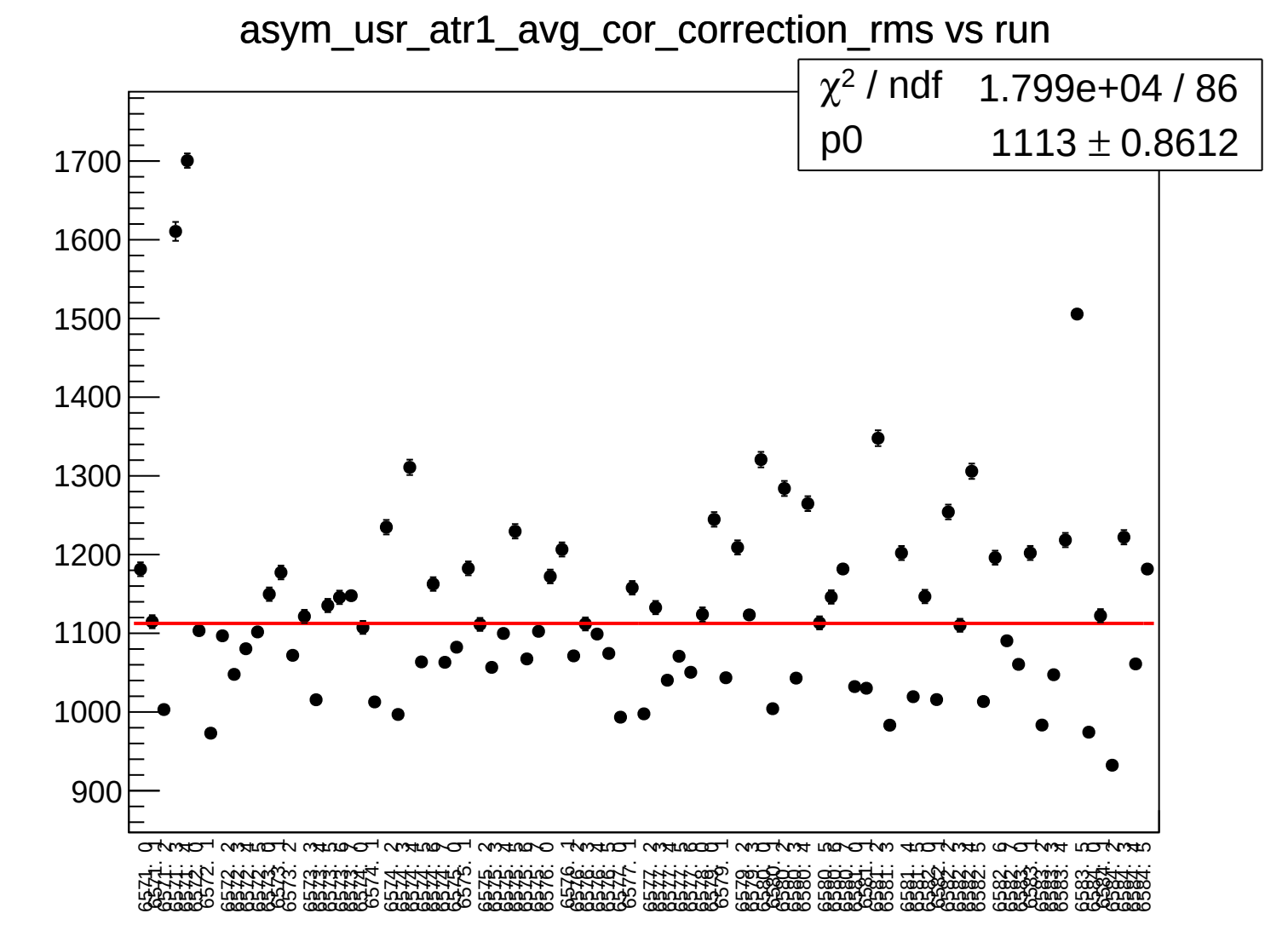

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 84.26 / 86
p0 2505 ± 1747
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 6.362
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

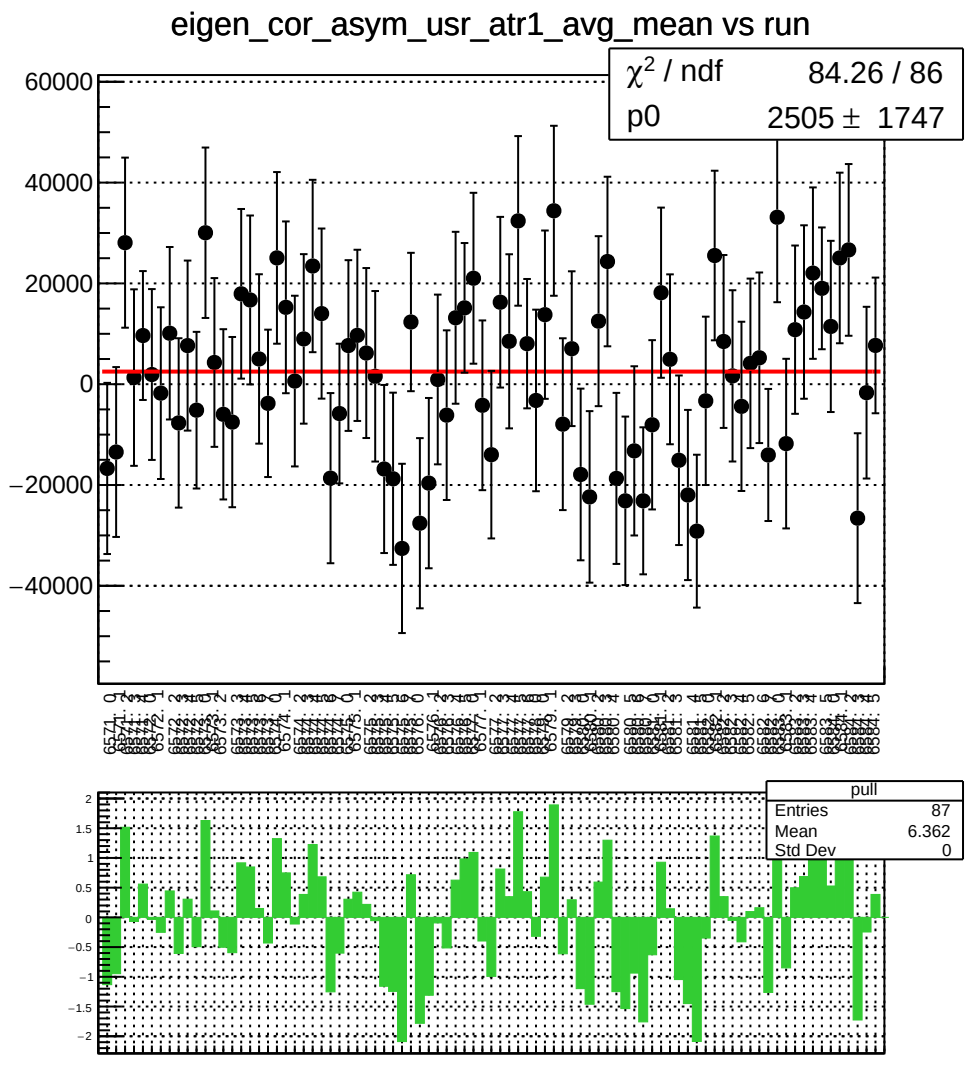

pull1D
Entries 87
Mean −0.003125
Std Dev 0.9841
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

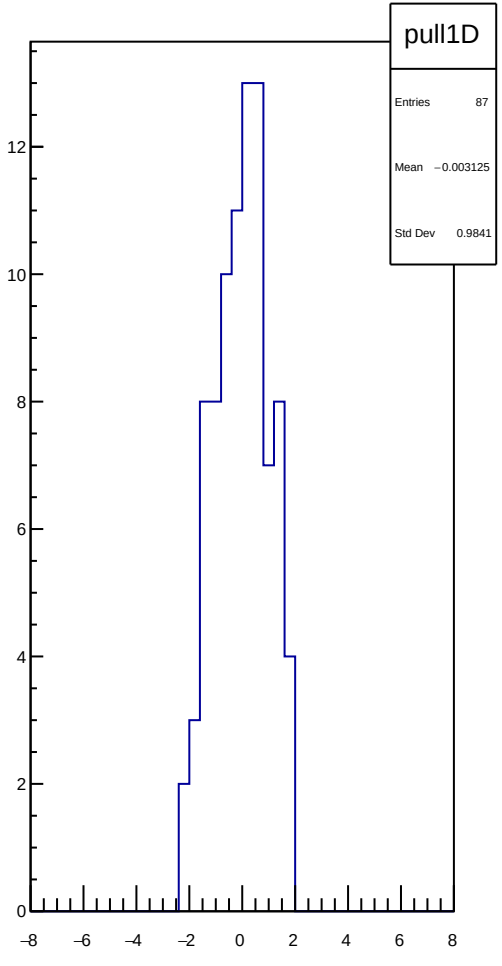

cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 160.4 / 86
p0 1605 ± 1.236
1680
1660
1640
1620
1600
1580
1560

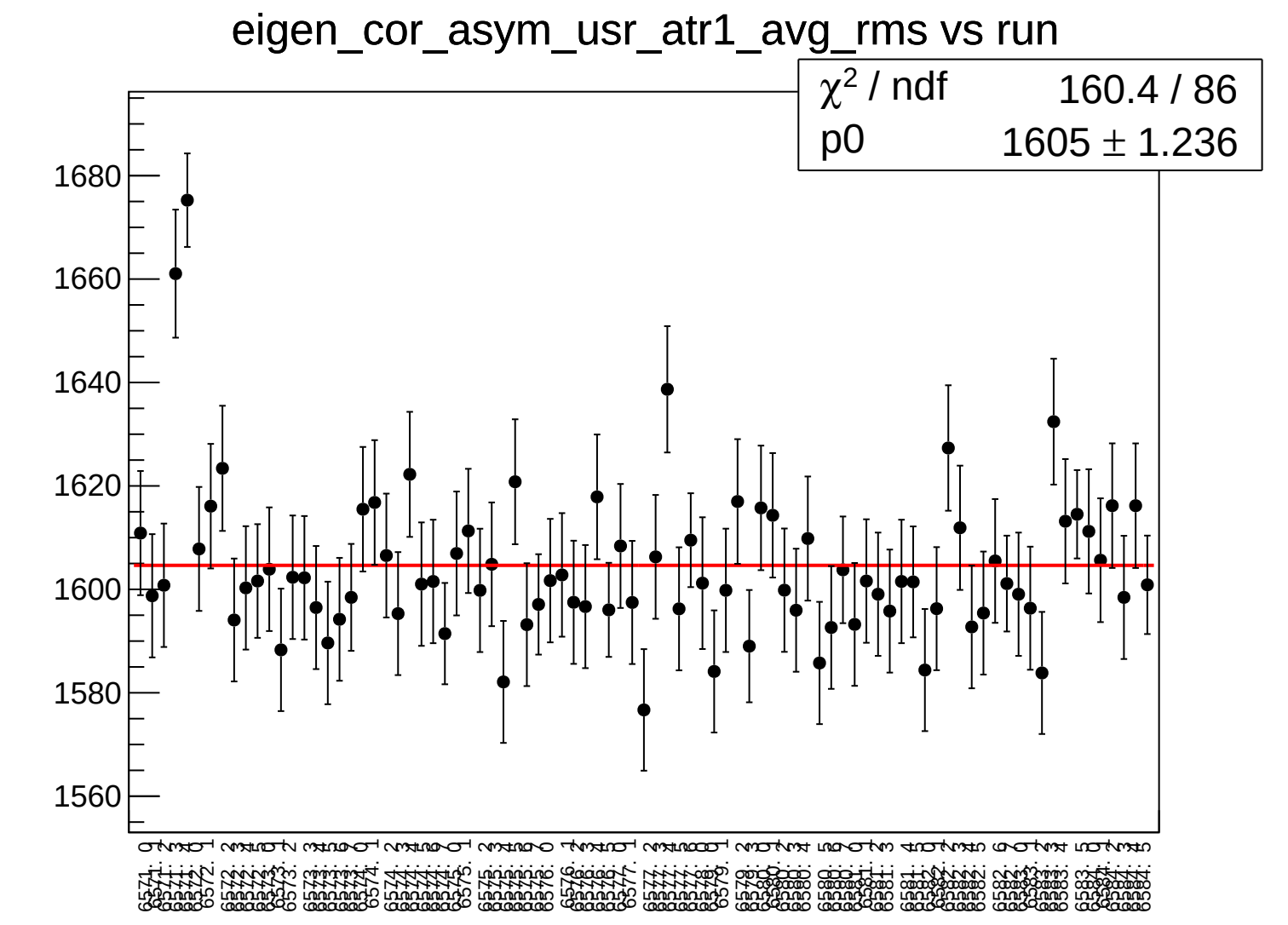

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 97.3 / 86
p0 993.1 ± 1218
pull
Entries 87
Mean −892.8
Std Dev 0

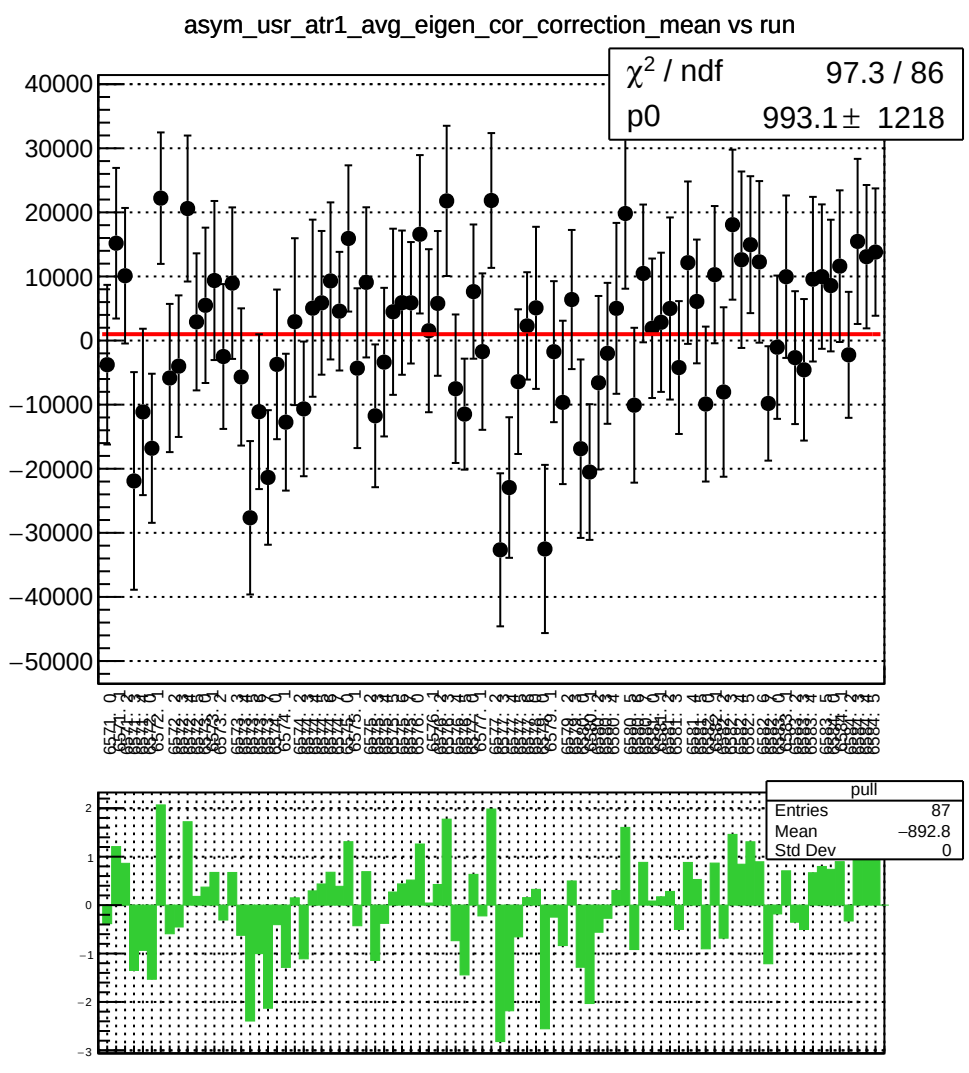

pull1D
Entries 87
Mean −0.004744
Std Dev 1.058

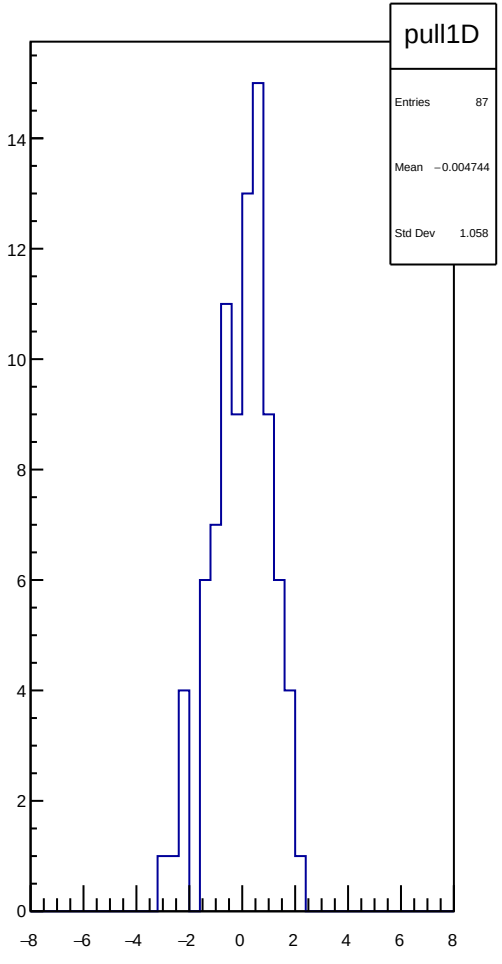

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.799e+04 / 86
p0 1113 ± 0.8612
1700
1600
1500
1400
1300
1200
1100
1000
900

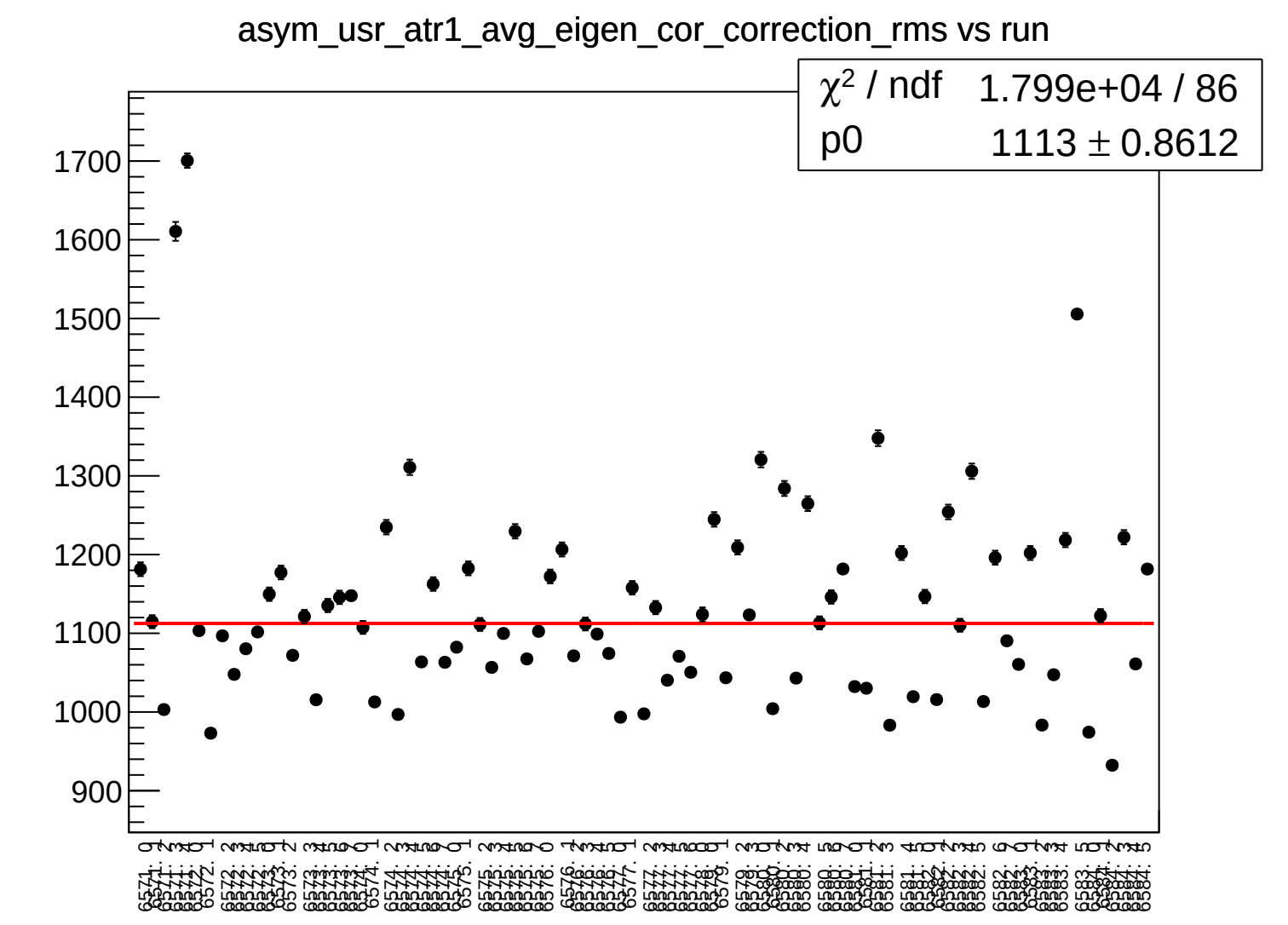

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 84.26 / 86
p0 2505 ± 1747
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 6.362
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

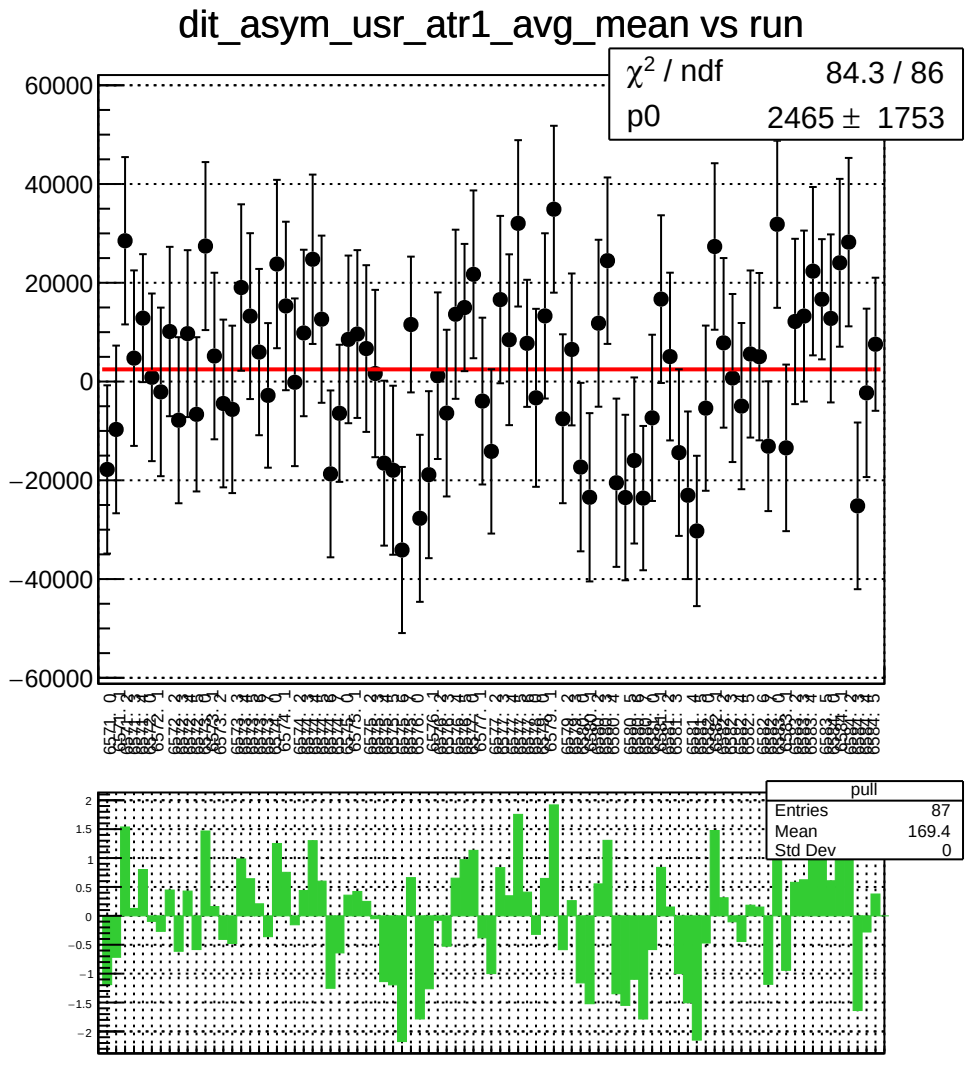

pull1D
Entries 87
Mean −0.003125
Std Dev 0.9841
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

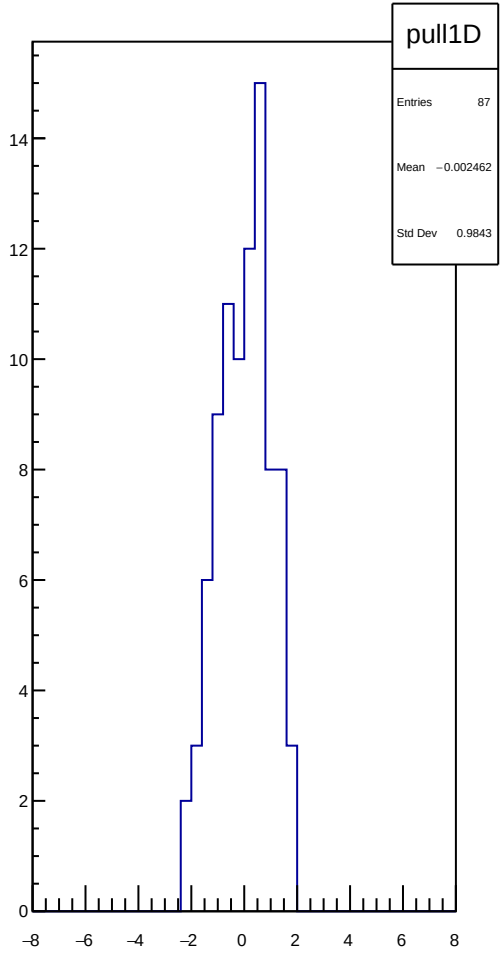

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 160.4 / 86
p0 1605 ± 1.236
1680
1660
1640
1620
1600
1580
1560

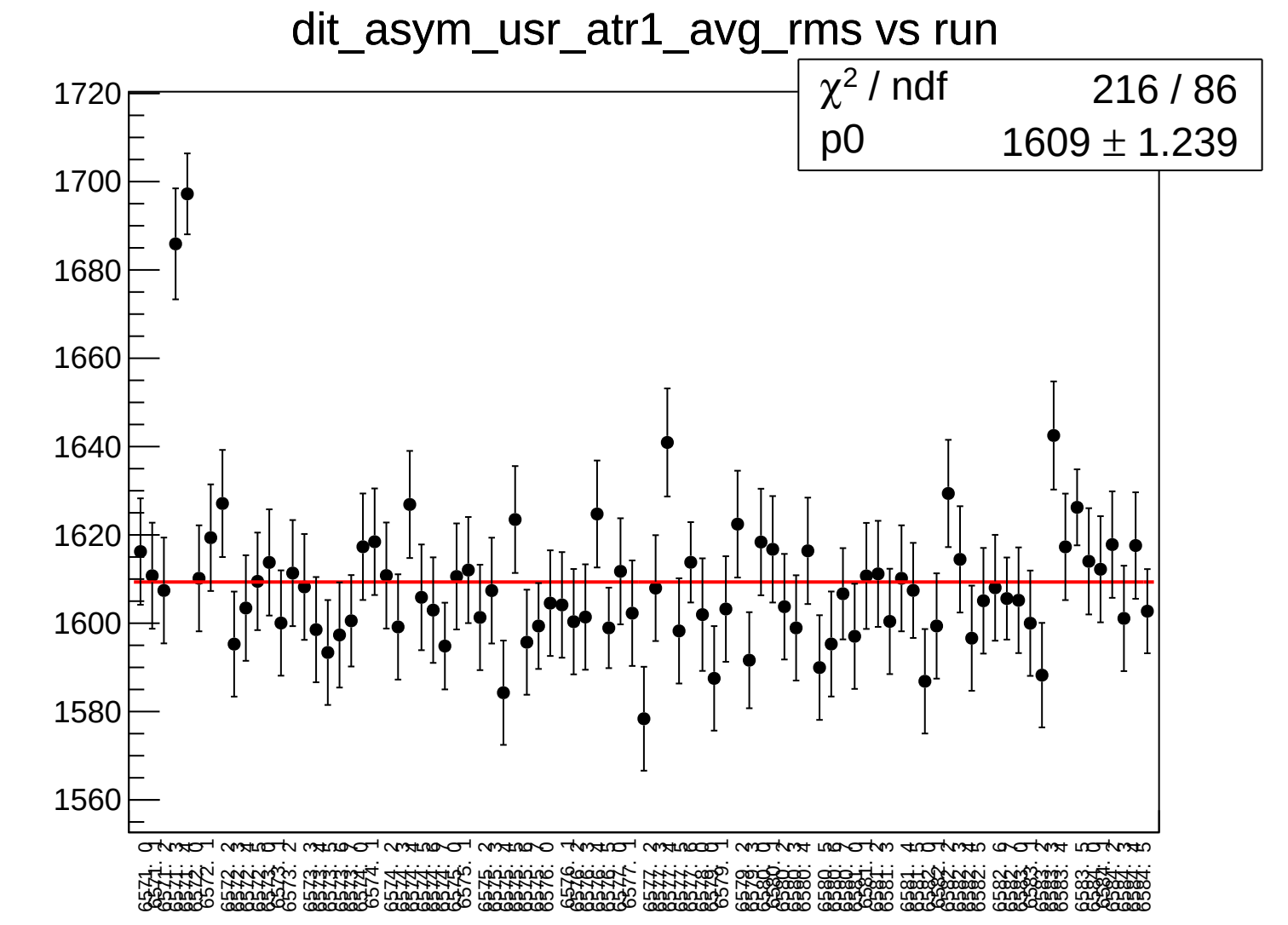

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.3 / 86
p0 993.1 ± 1218
pull
Entries 87
Mean −892.8
Std Dev 0

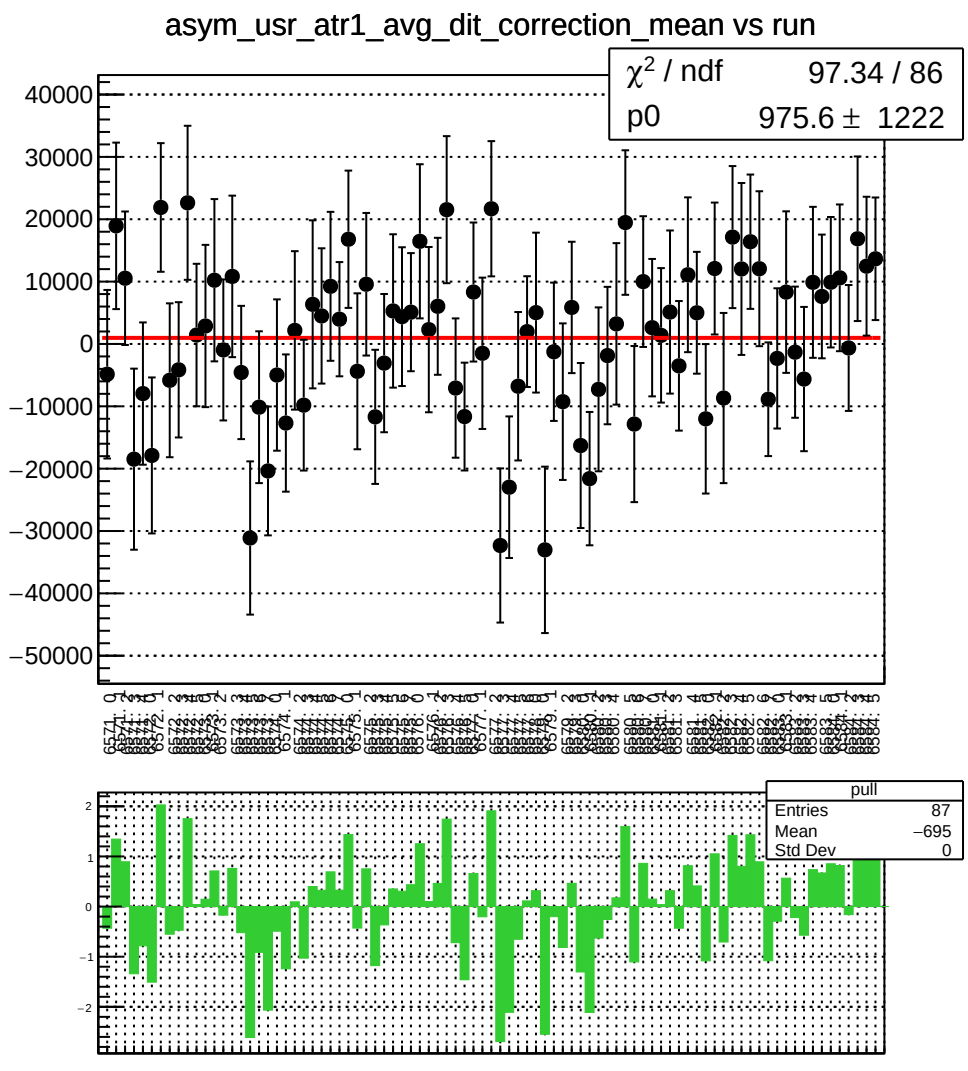

pull1D
Entries 87
Mean −0.004744
Std Dev 1.058

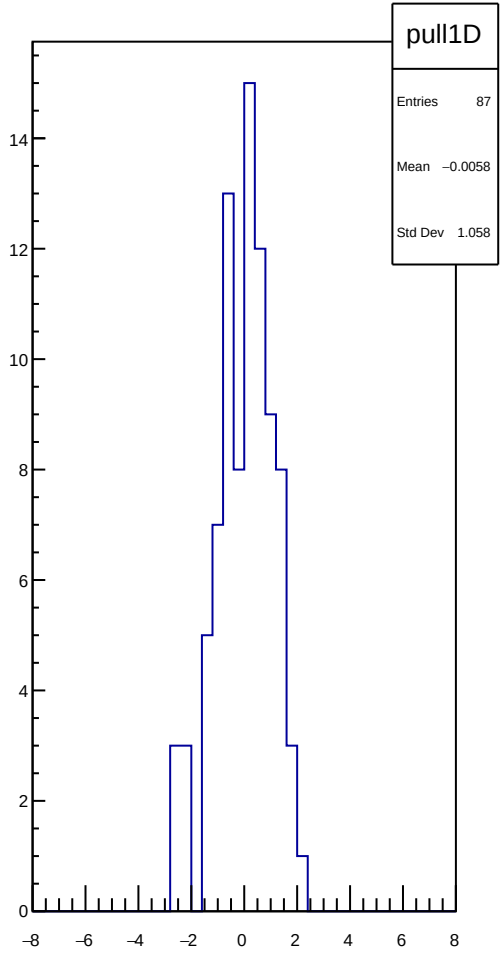

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.799e+04 / 86
p0 1113 ± 0.8612
1700
1600
1500
1400
1300
1200
1100
1000
900

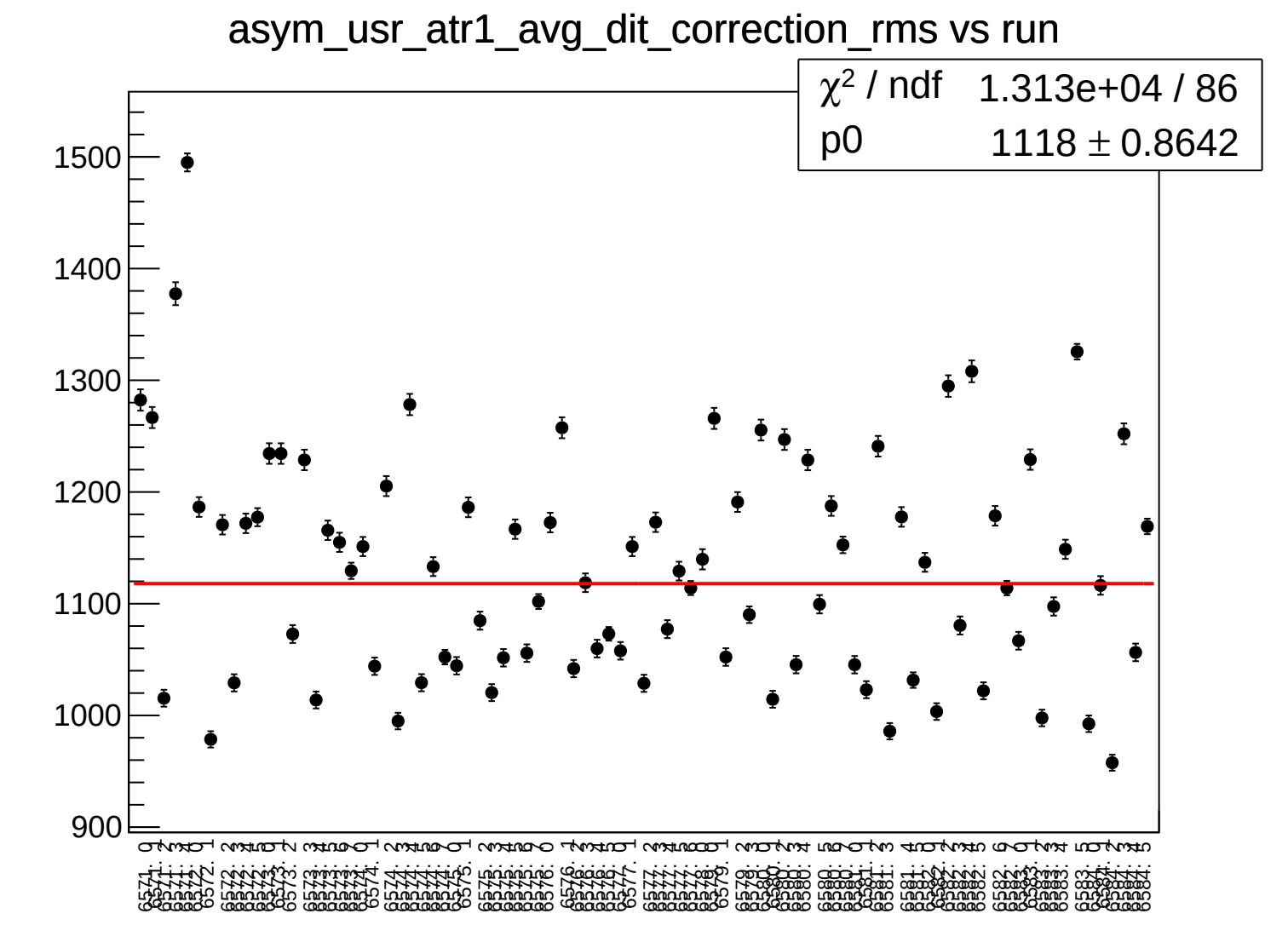

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 84.3 / 86
p0 2465 ± 1753
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 169.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

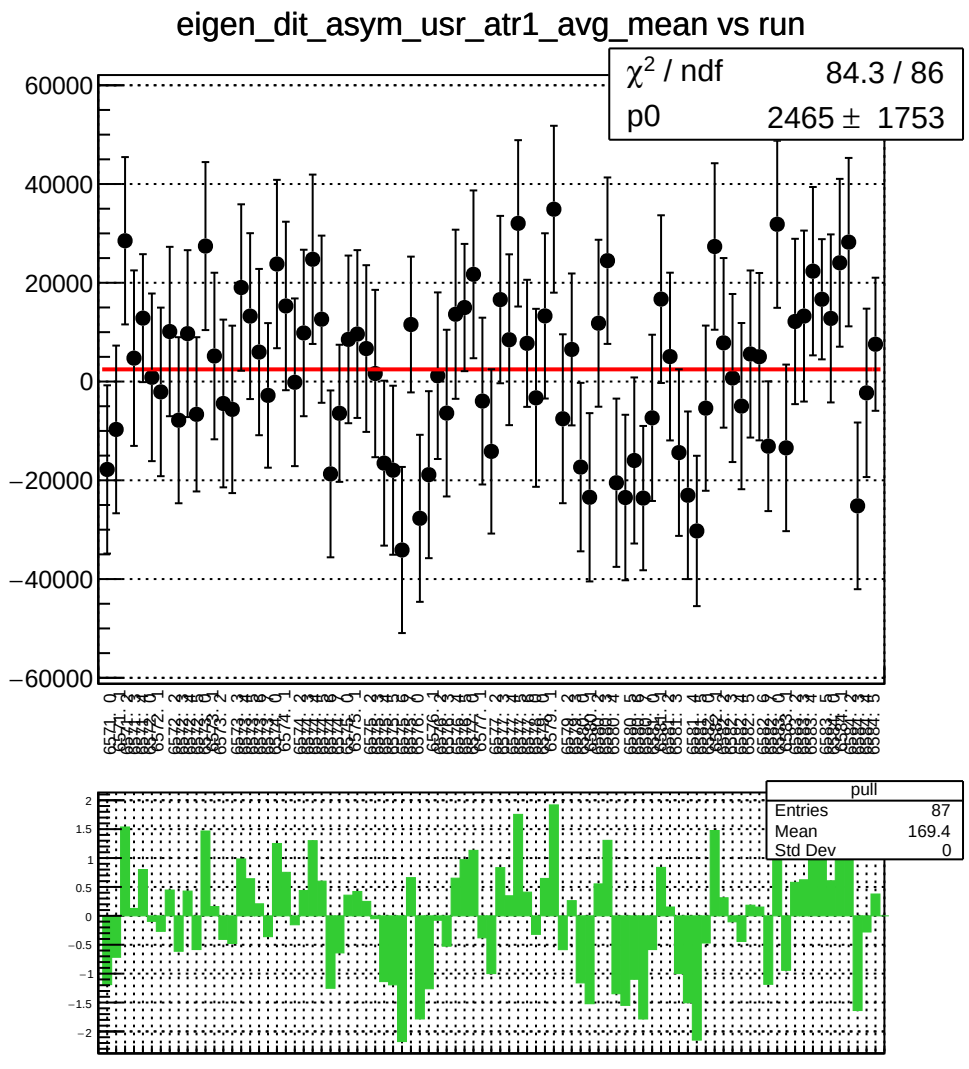

pull1D
Entries 87
Mean −0.002462
Std Dev 0.9843
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

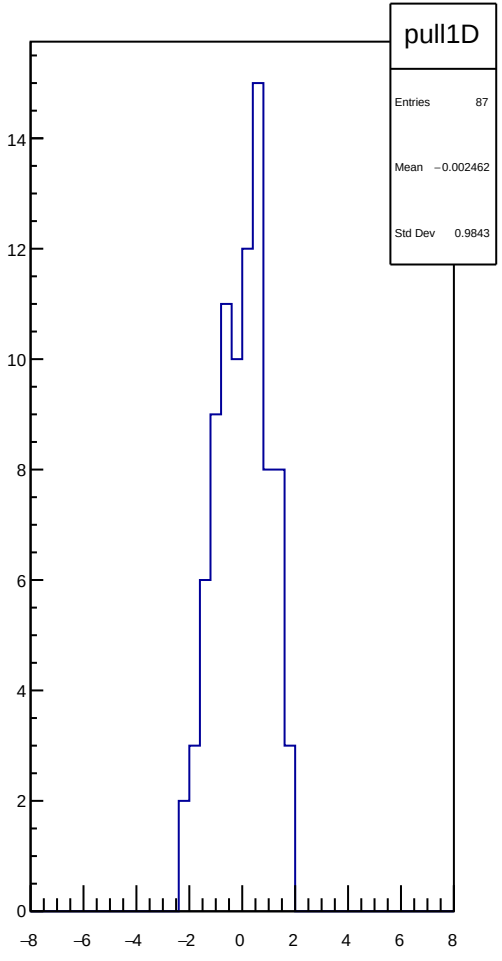

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 216 / 86
p0 1609 ± 1.239
1720
1700
1680
1660
1640
1620
1600
1580
1560

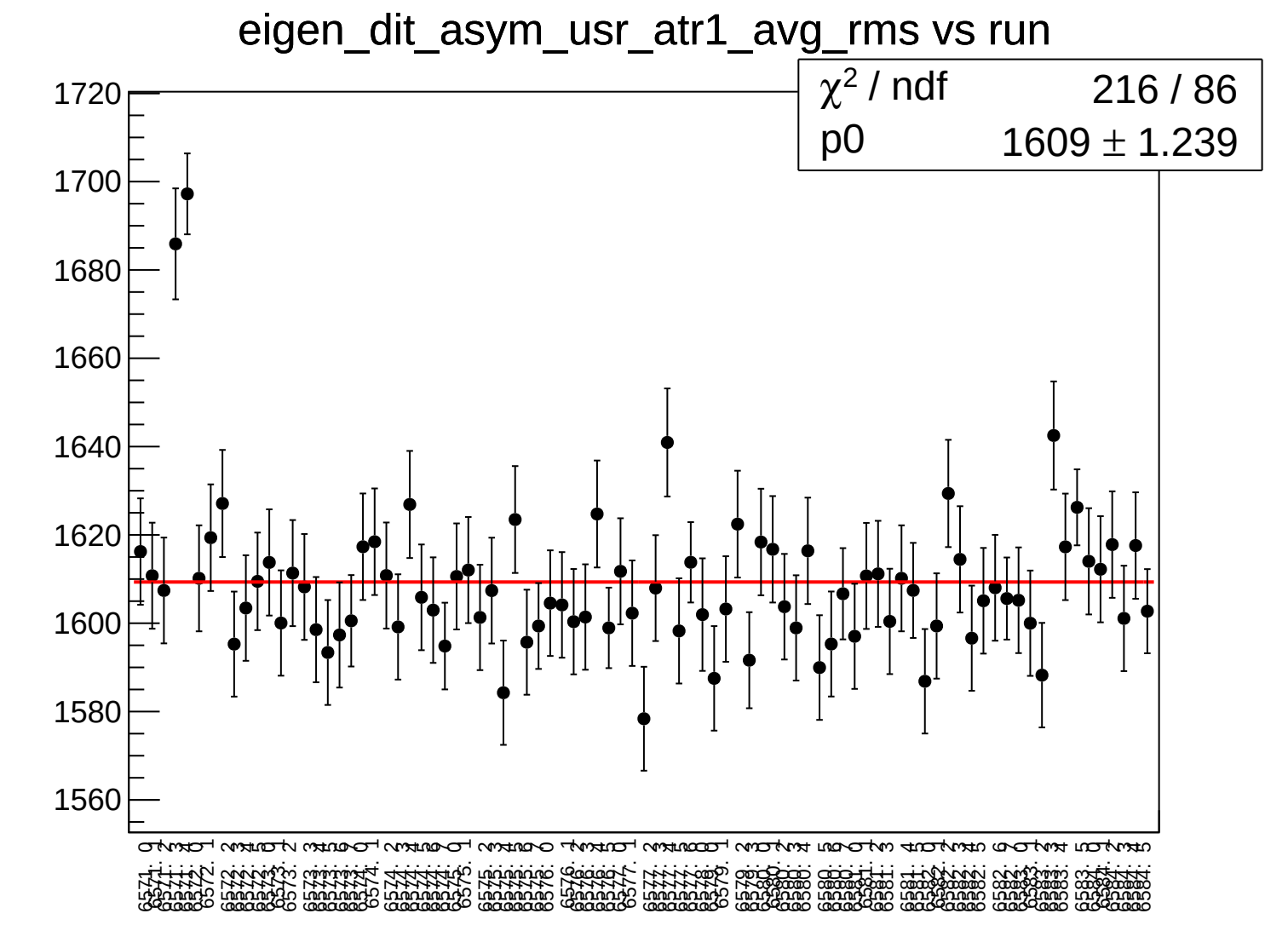

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 97.34 / 86
p0 975.6 ± 1222
pull
Entries 87
Mean −695
Std Dev 0

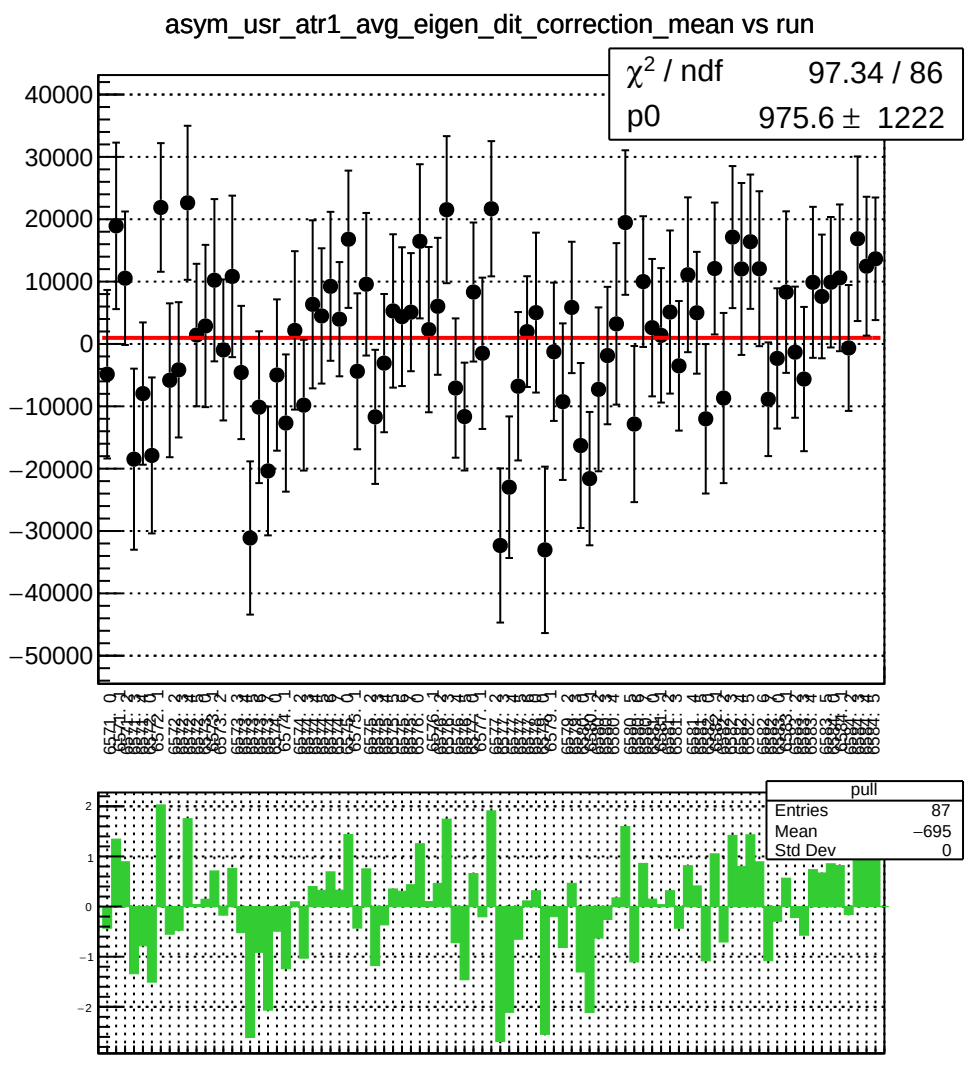

pull1D
Entries 87
Mean −0.0058
Std Dev 1.058

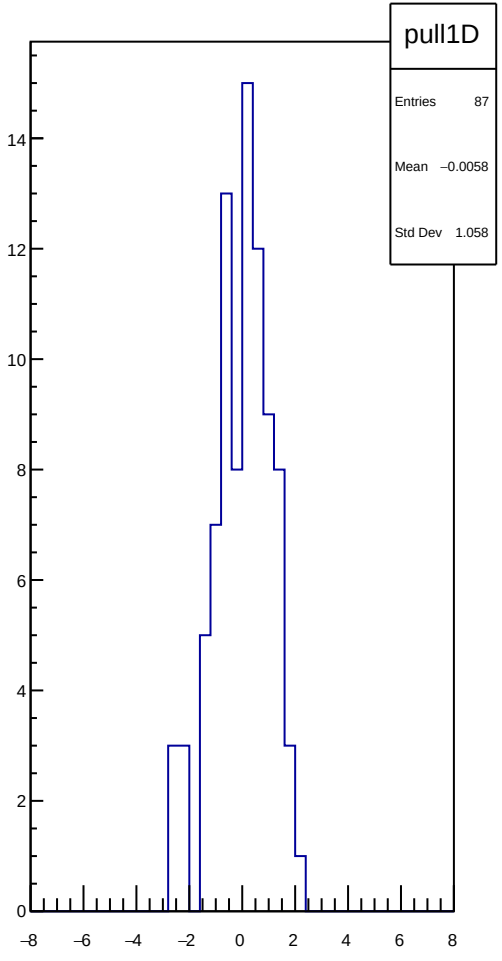

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.313e+04 / 86
p0 1118 ± 0.8642
1500
1400
1300
1200
1100
1000
900

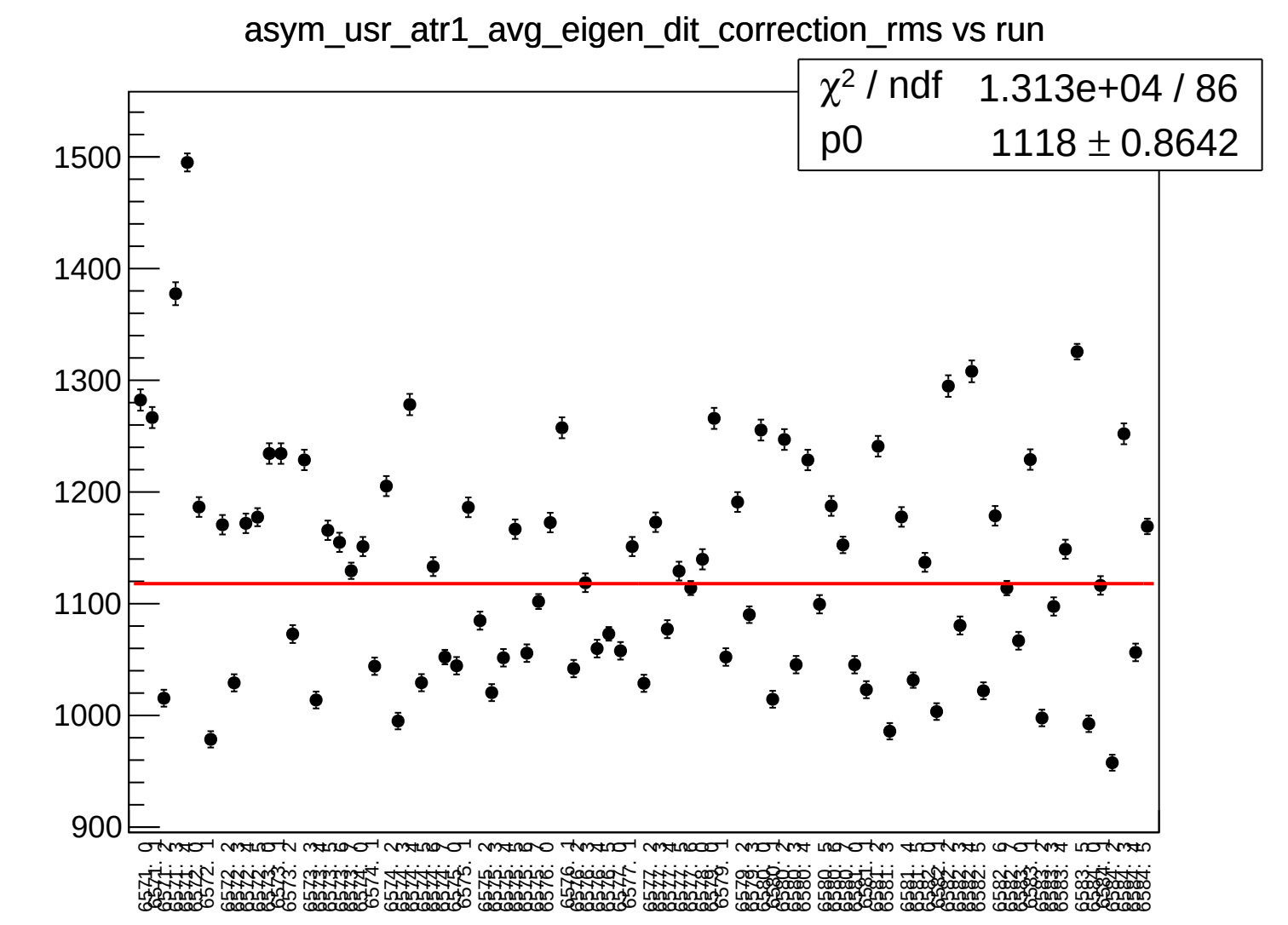

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 84.3 / 86
p0 2465 ± 1753
pull
Entries 87
Mean 169.4
Std Dev 0

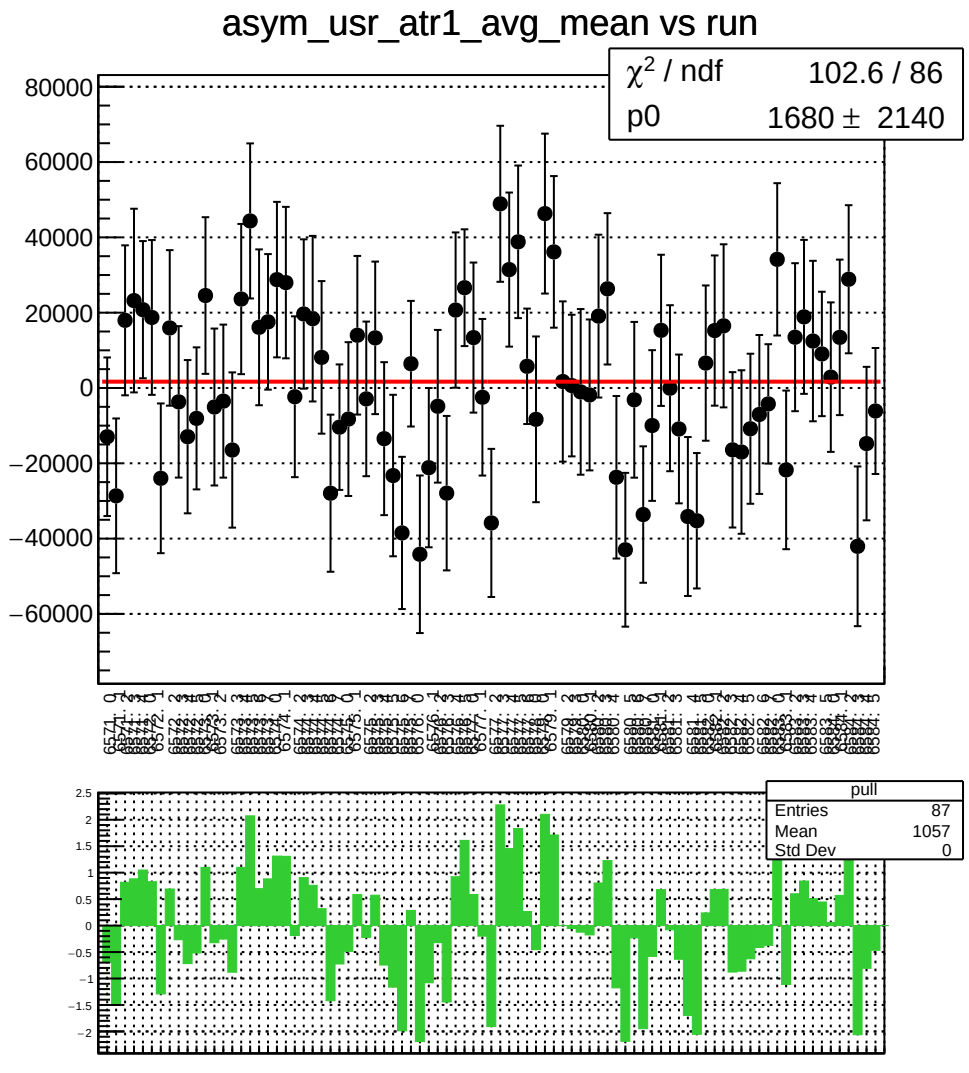

pull1D
Entries 87
Mean −0.002462
Std Dev 0.9843

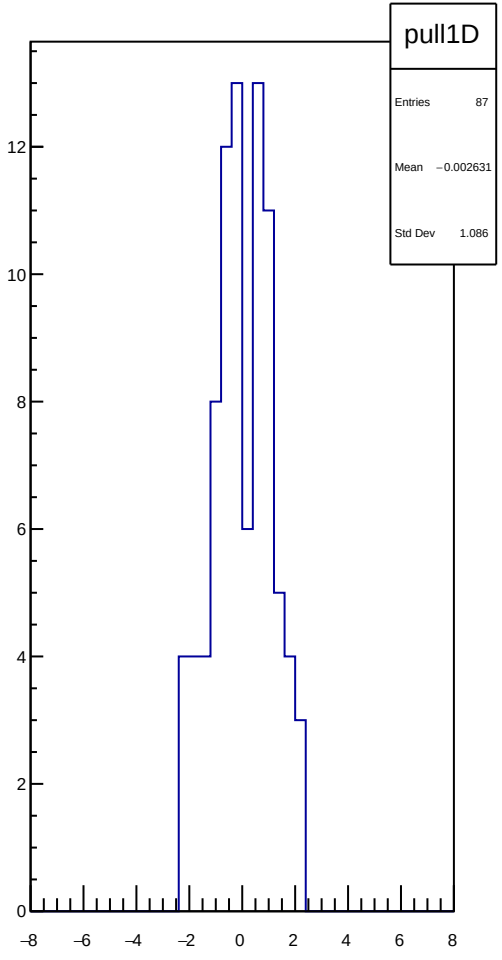

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 216 / 86
p0 1609 ± 1.239
1720
1700
1680
1660
1640
1620
1600
1580
1560

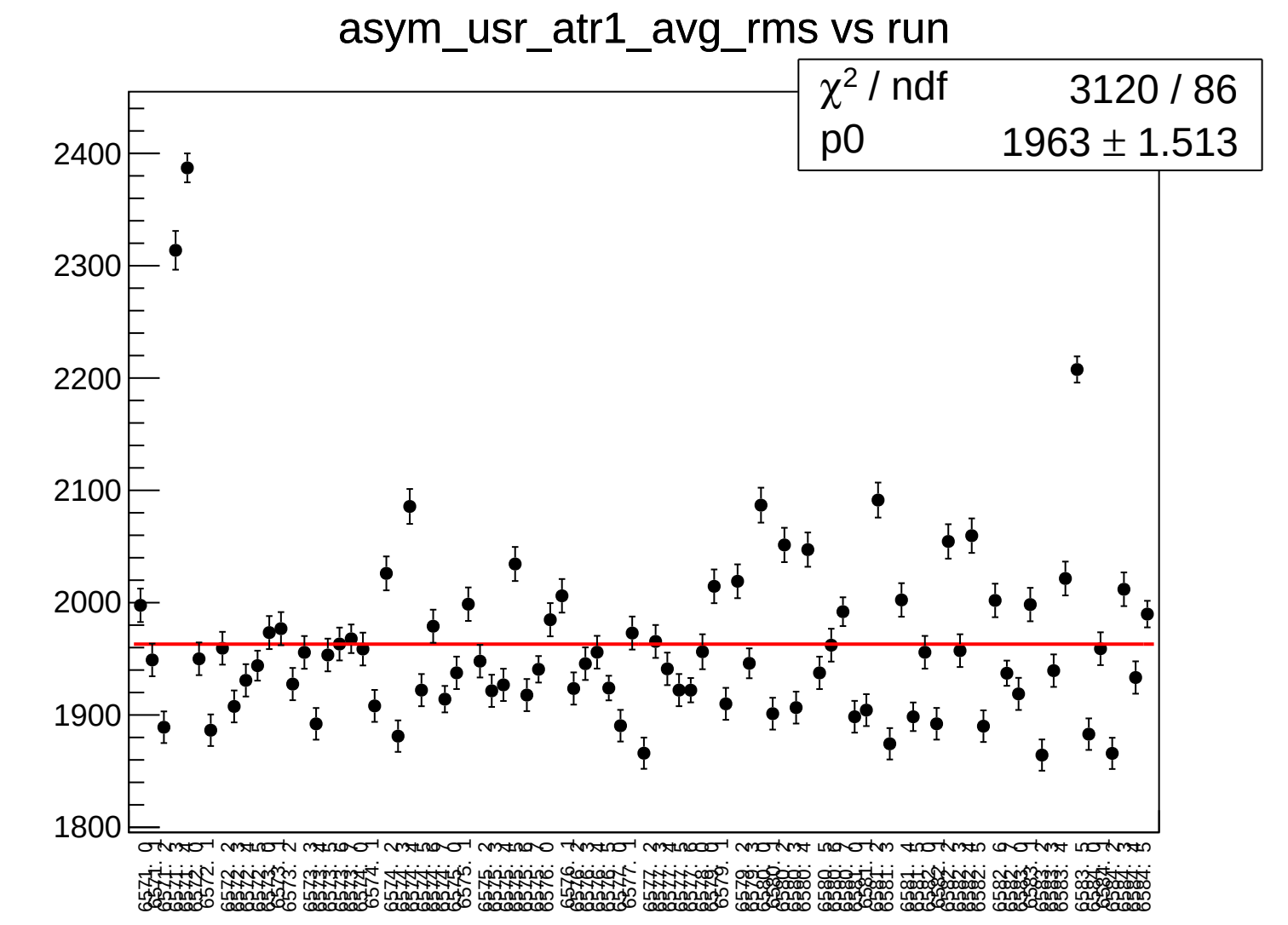

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.34 / 86
p0 975.6 ± 1222
pull
Entries 87
Mean −695
Std Dev 0

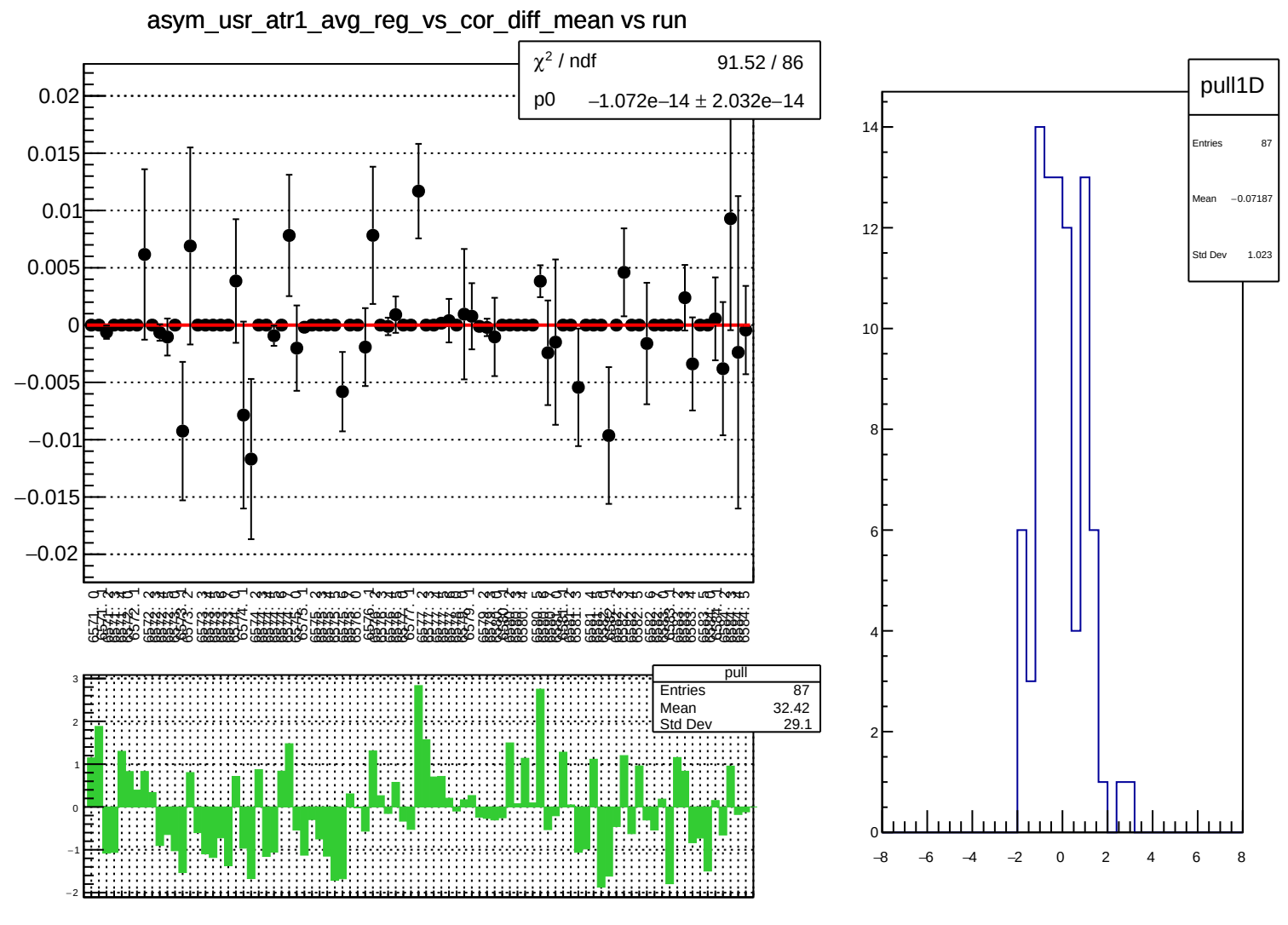

pull1D
Entries 87
Mean −0.0058
Std Dev 1.058

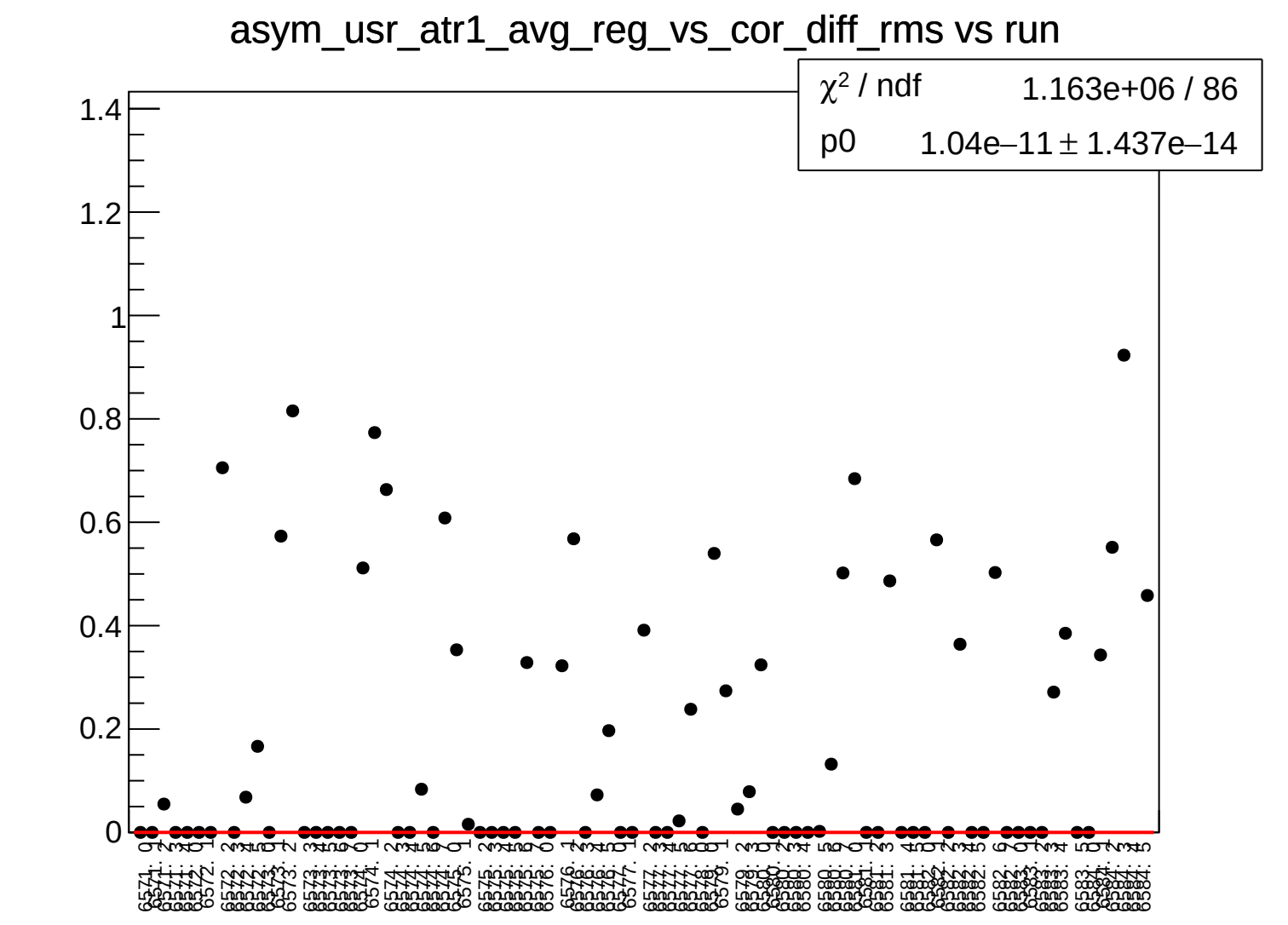

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.313e+04 / 86
p0 1118 ± 0.8642
1500
1400
1300
1200
1100
1000
900

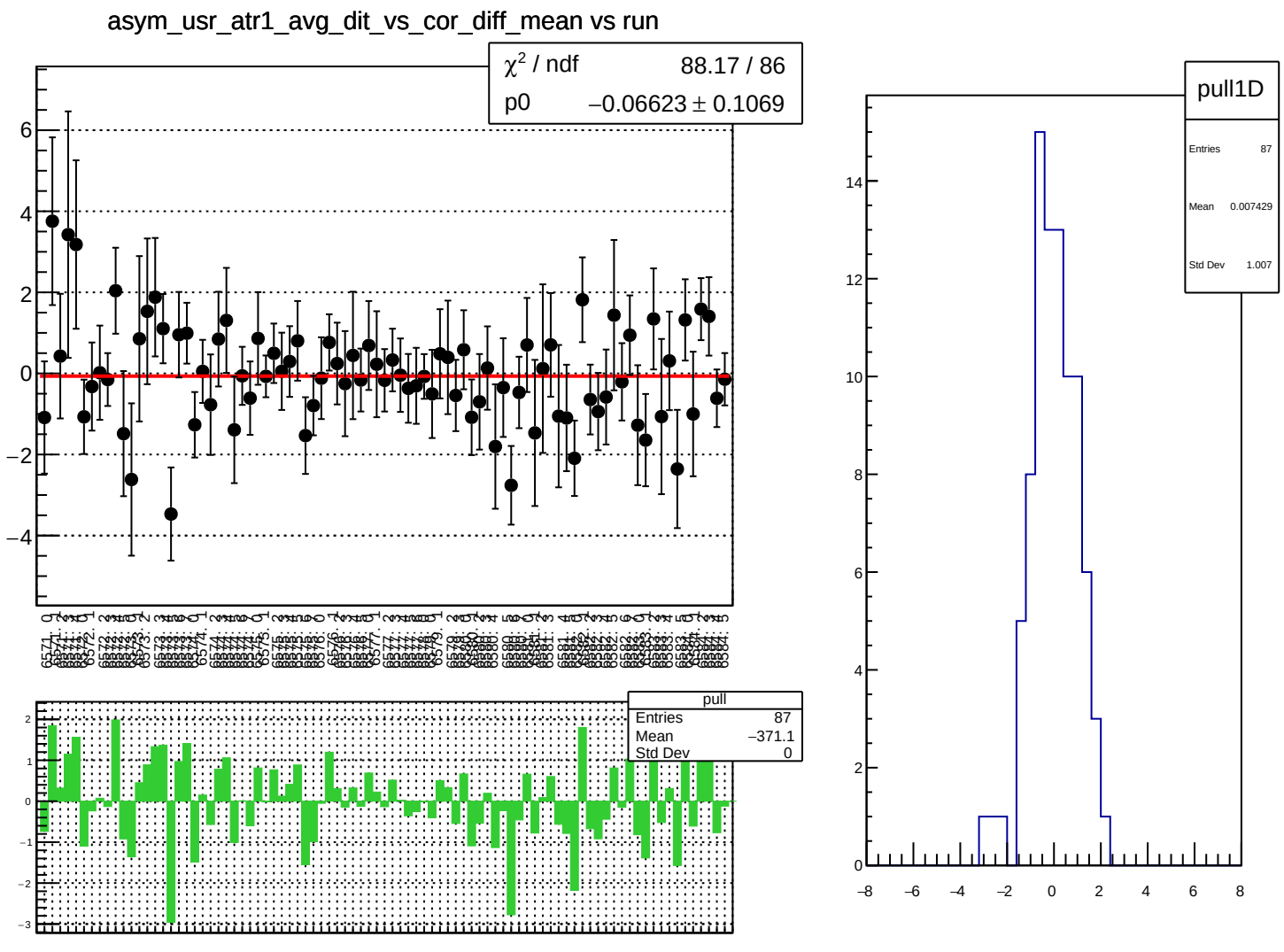

asym_usr_atr1_avg_mean vs run
χ² / ndf 102.6 / 86
p0 1680 ± 2140
pull
Entries 87
Mean 1057
Std Dev 0

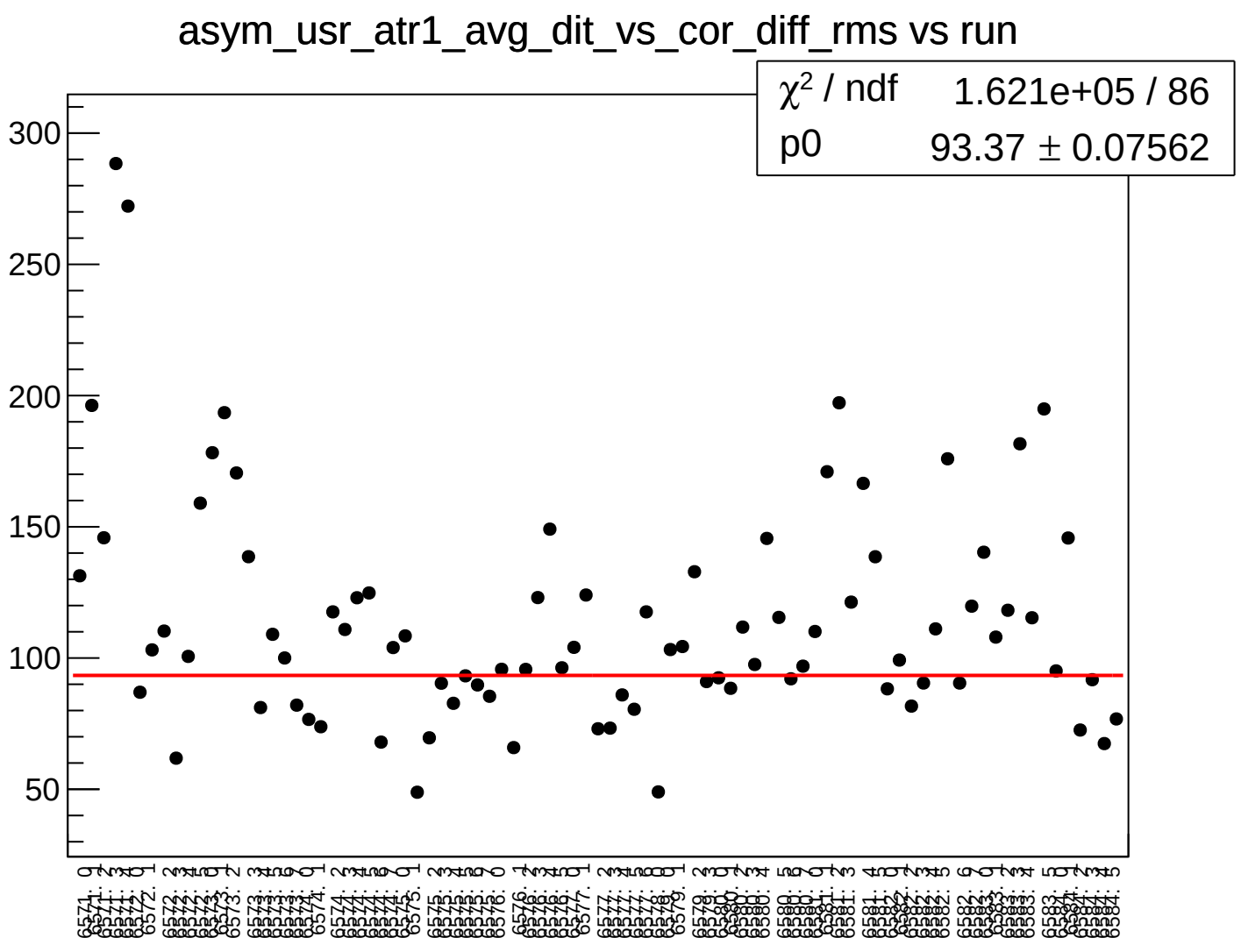

pull1D
Entries 87
Mean −0.002631
Std Dev 1.086

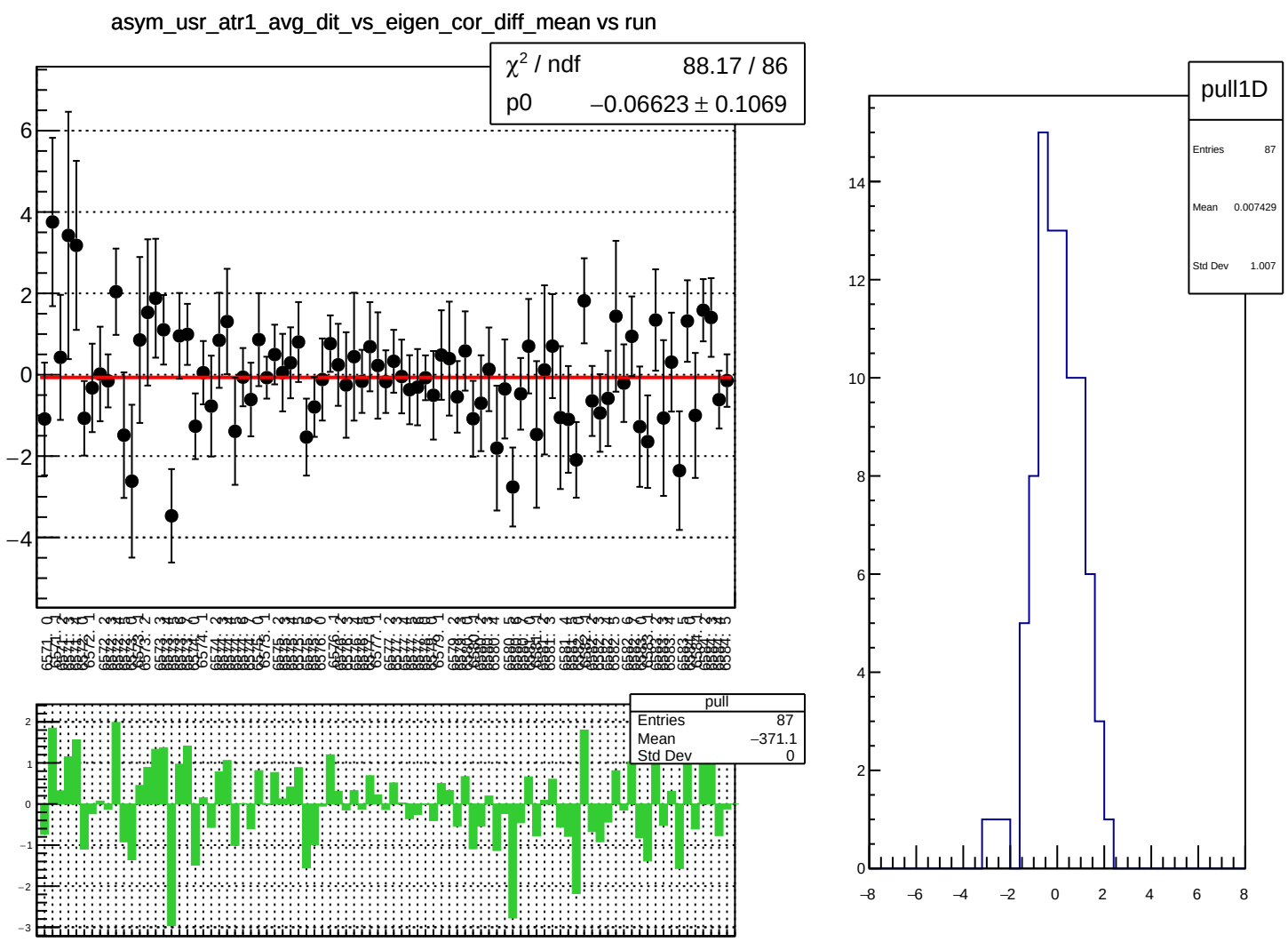

asym_usr_atr1_avg_rms vs run
χ² / ndf 3120 / 86
p0 1963 ± 1.513
2400
2300
2200
2100
2000
1900
1800

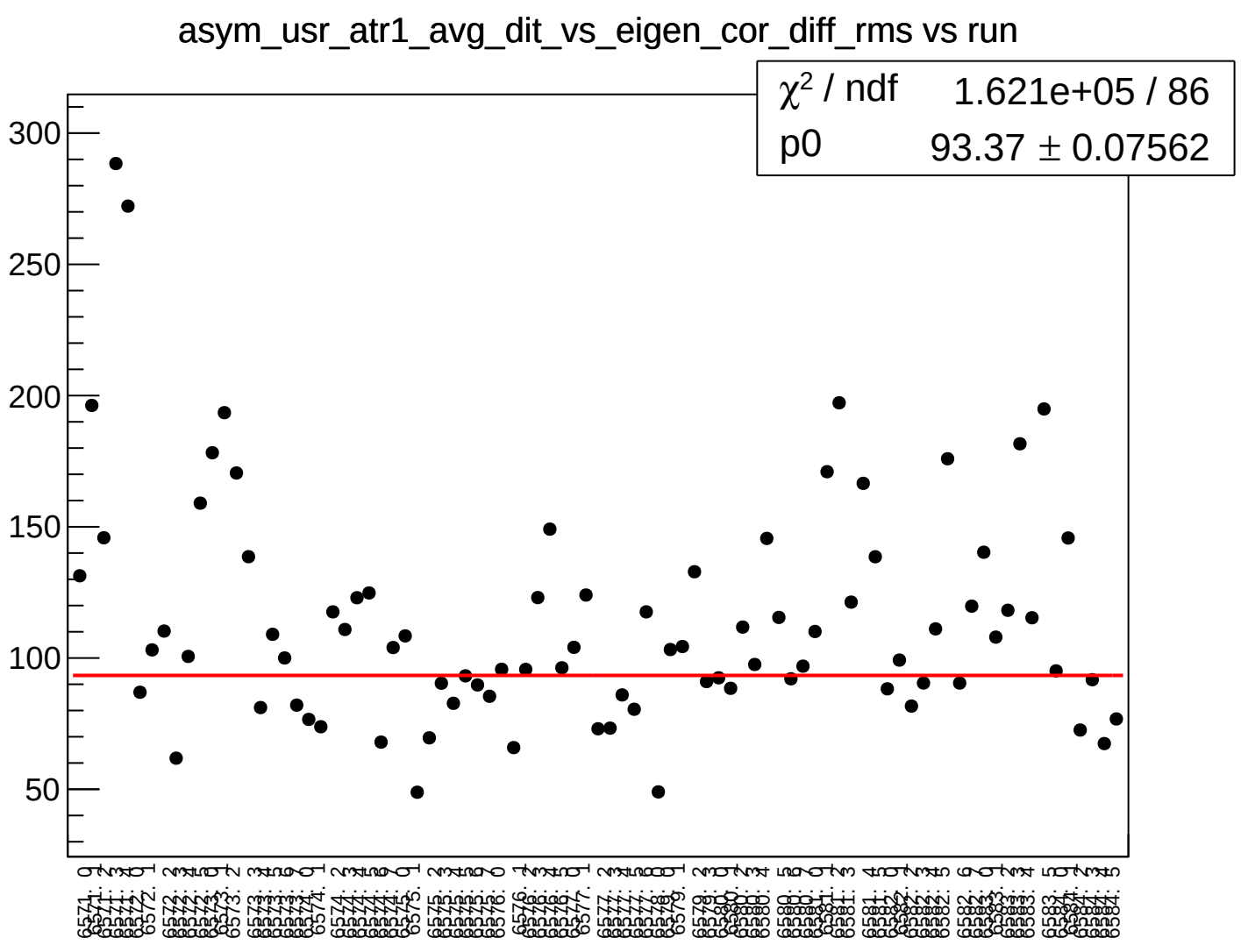

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.52 / 86
p0 −1.072e−14 ± 2.032e−14
pull
Entries 87
Mean 32.42
Std Dev 29.1
pull1D
Entries 87
Mean −0.07187
Std Dev 1.023

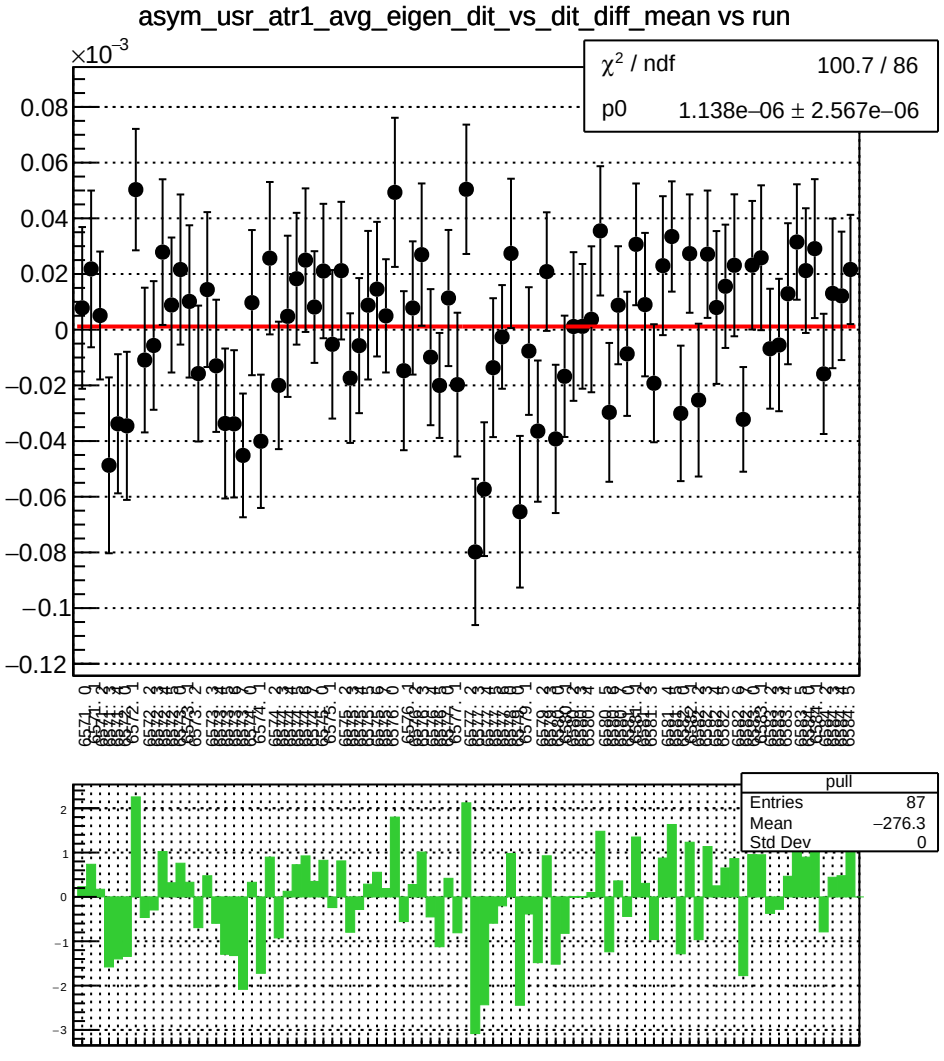

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 86
p0 1.04e−11 ± 1.437e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

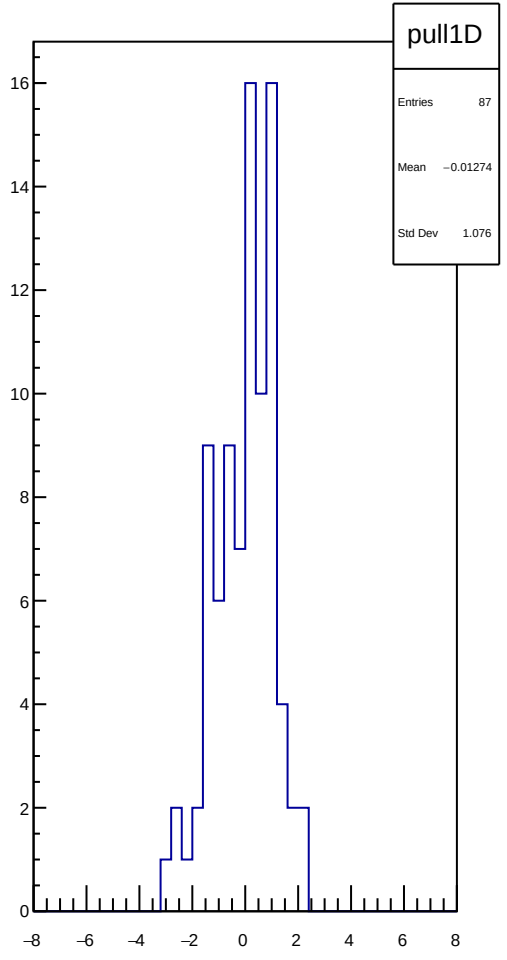

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.17 / 86
p0 −0.06623 ± 0.1069
pull
Entries 87
Mean −371.1
Std Dev 0
pull1D
Entries 87
Mean 0.007429
Std Dev 1.007

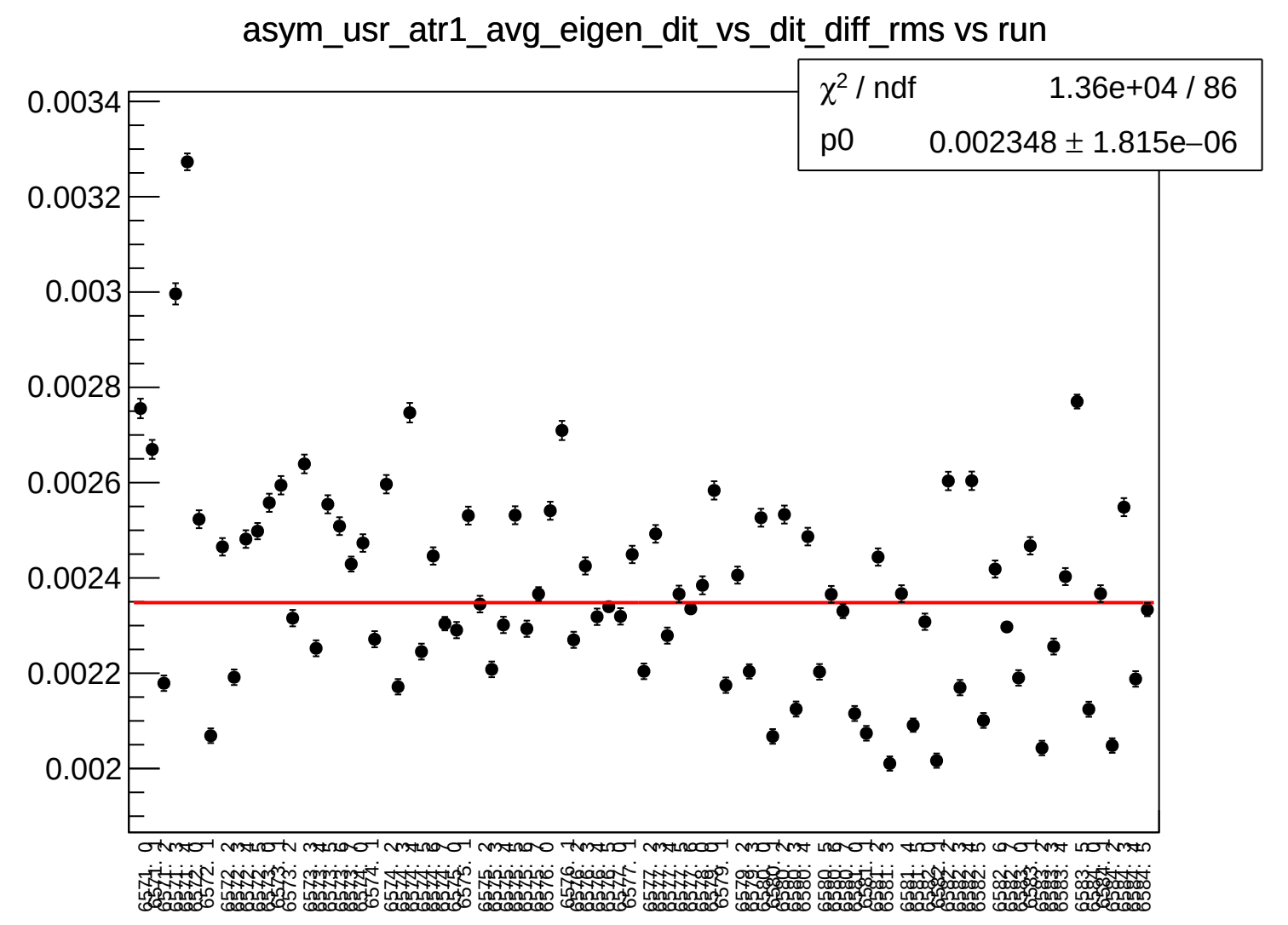

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.621e+05 / 86
p0 93.37 ± 0.07562
300
250
200
150
100
50

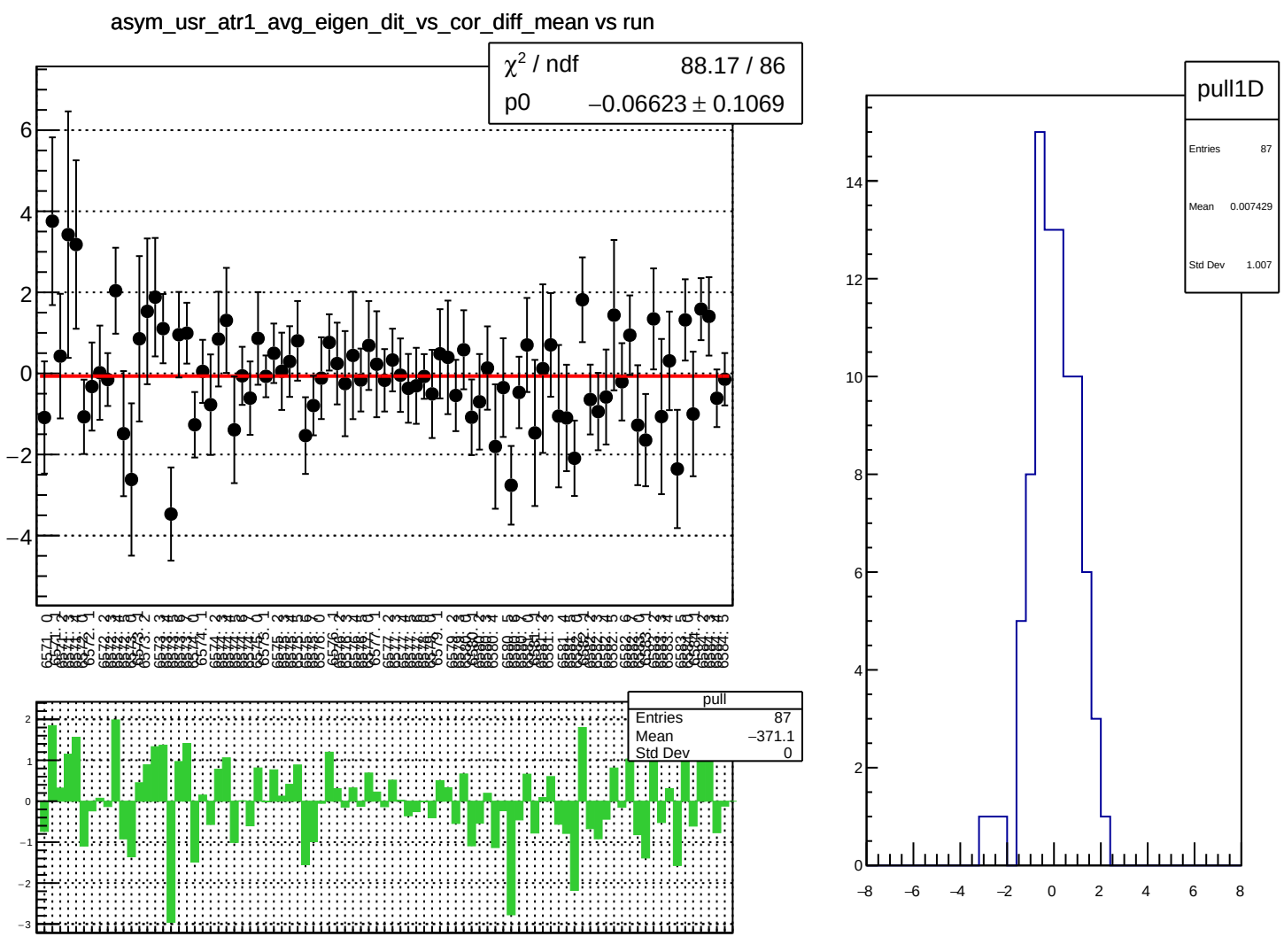

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.17 / 86
p0 −0.06623 ± 0.1069
pull
Entries 87
Mean −371.1
Std Dev 0
pull1D
Entries 87
Mean 0.007429
Std Dev 1.007

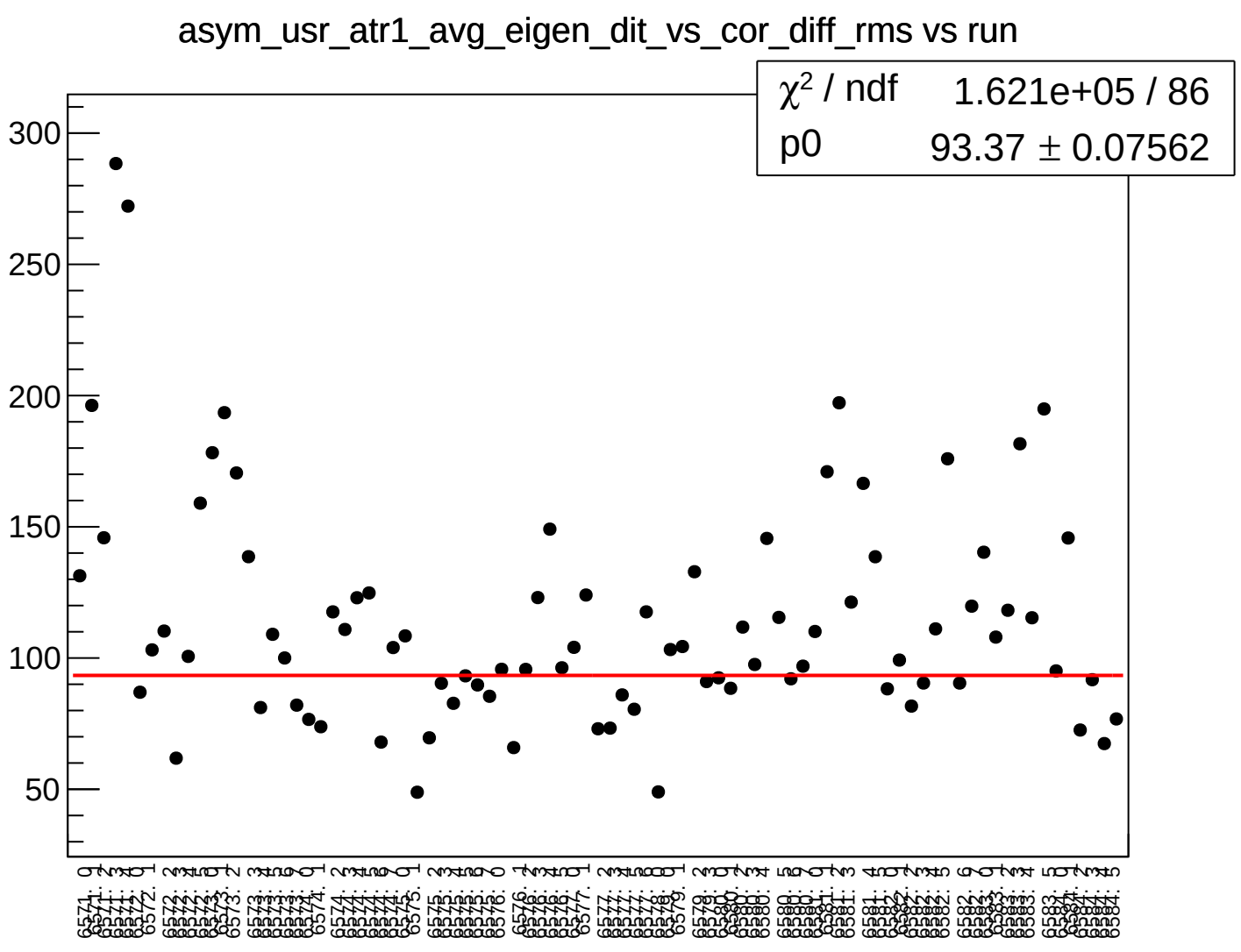

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.621e+05 / 86
p0 93.37 ± 0.07562
300
250
200
150
100
50

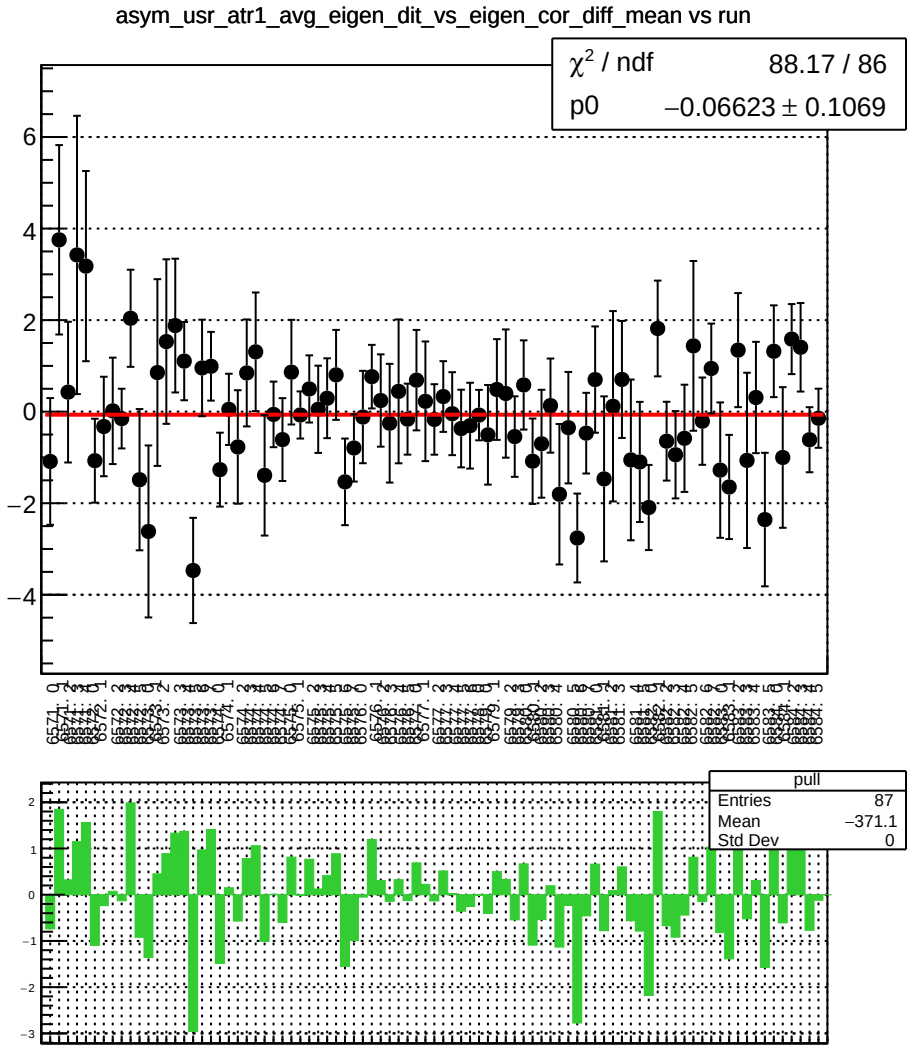

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 86
p0 1.138e−06 ± 2.567e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 87
Mean −276.3
Std Dev 0
2
1
0
−1
−2
−3

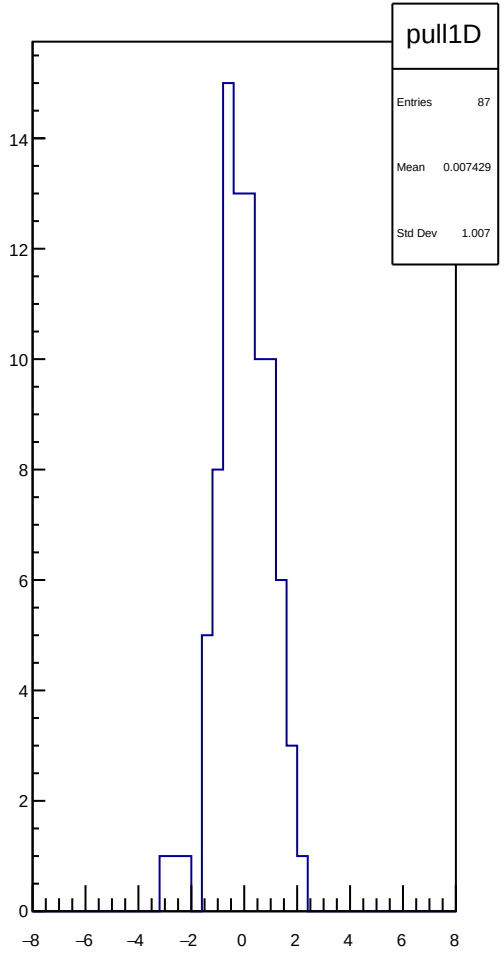

pull1D
Entries 87
Mean −0.01274
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

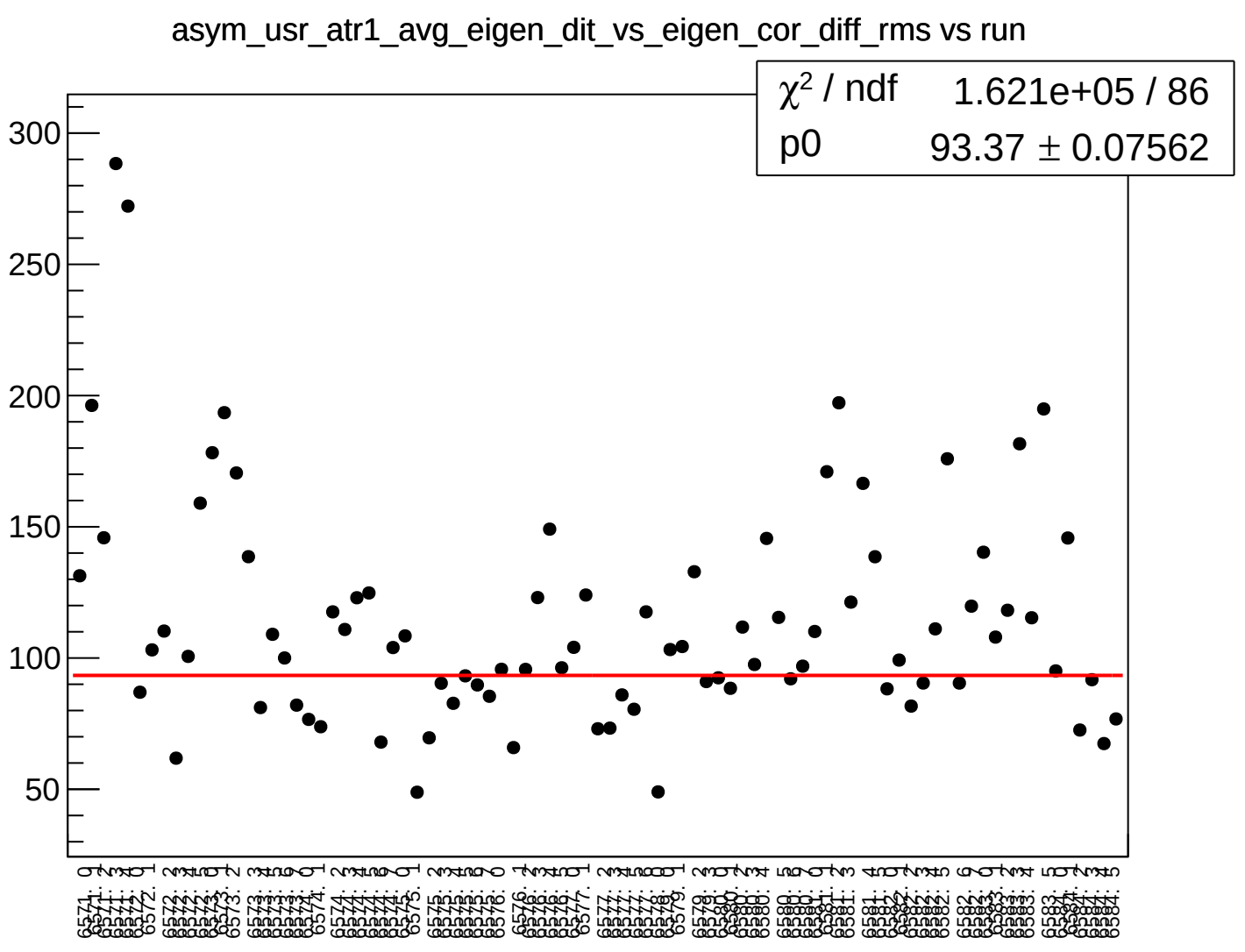

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.36e+04 / 86
p0 0.002348 ± 1.815e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

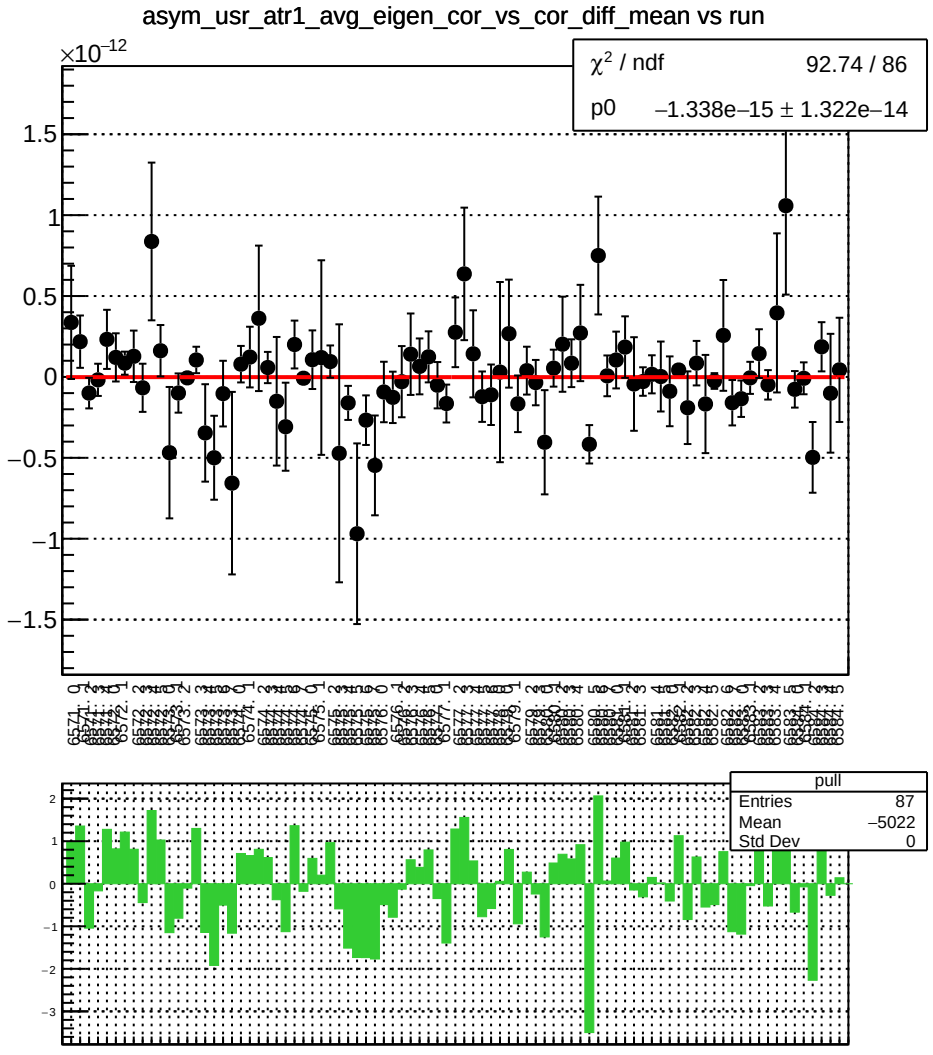

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.17 / 86
p0 −0.06623 ± 0.1069
pull
Entries 87
Mean −371.1
Std Dev 0
pull1D
Entries 87
Mean 0.007429
Std Dev 1.007

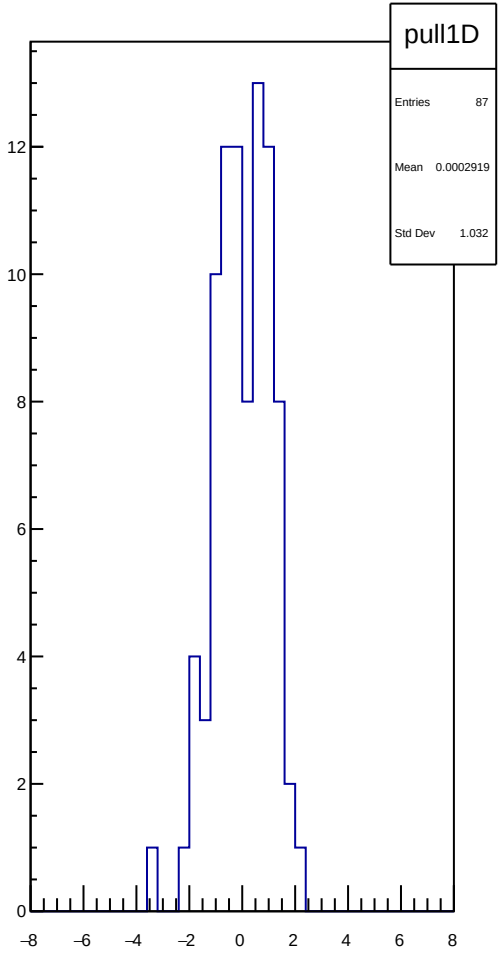

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.621e+05 / 86
p0 93.37 ± 0.07562
300
250
200
150
100
50

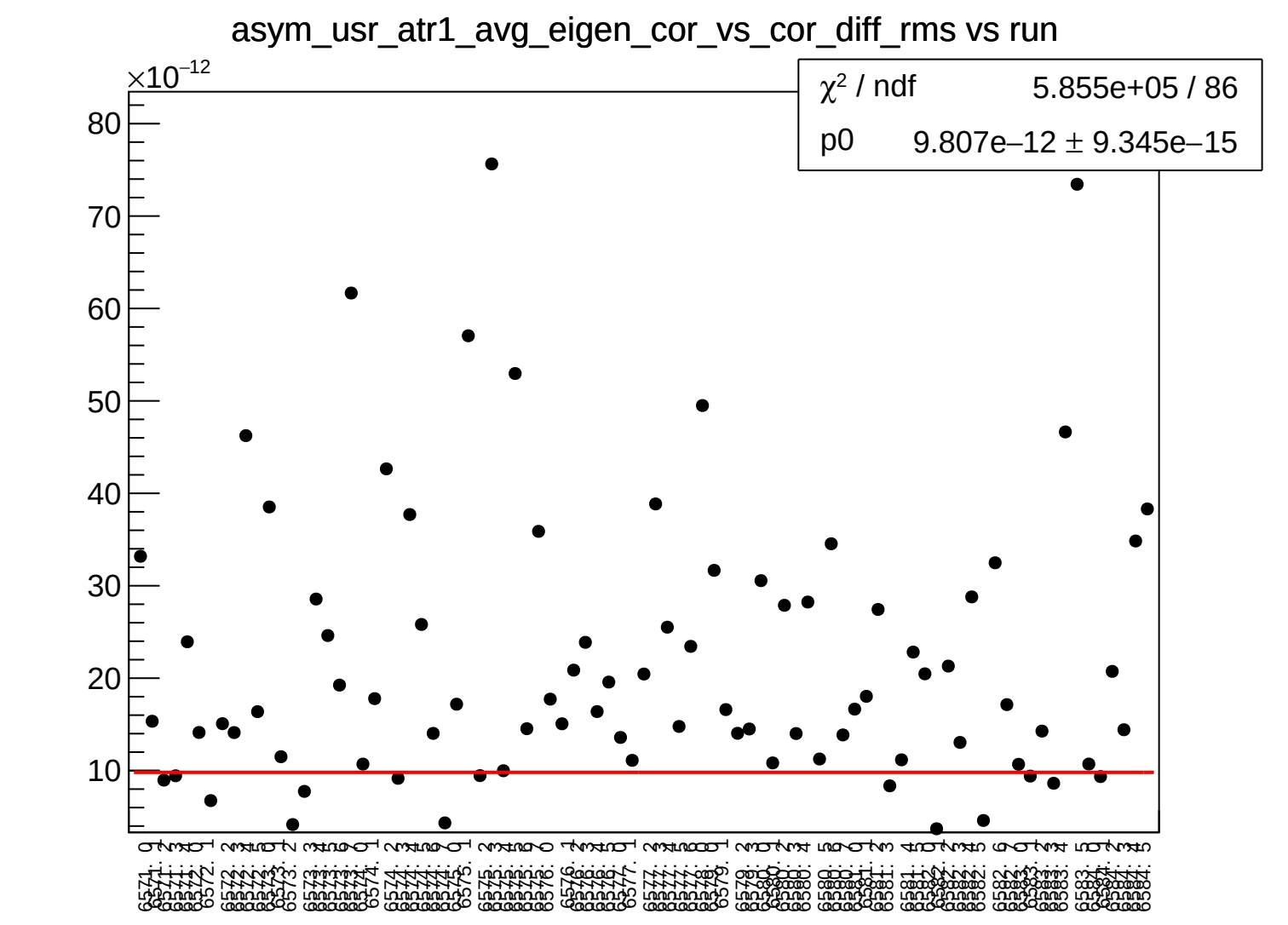

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.17 / 86
p0 −0.06623 ± 0.1069
pull
Entries 87
Mean −371.1
Std Dev 0

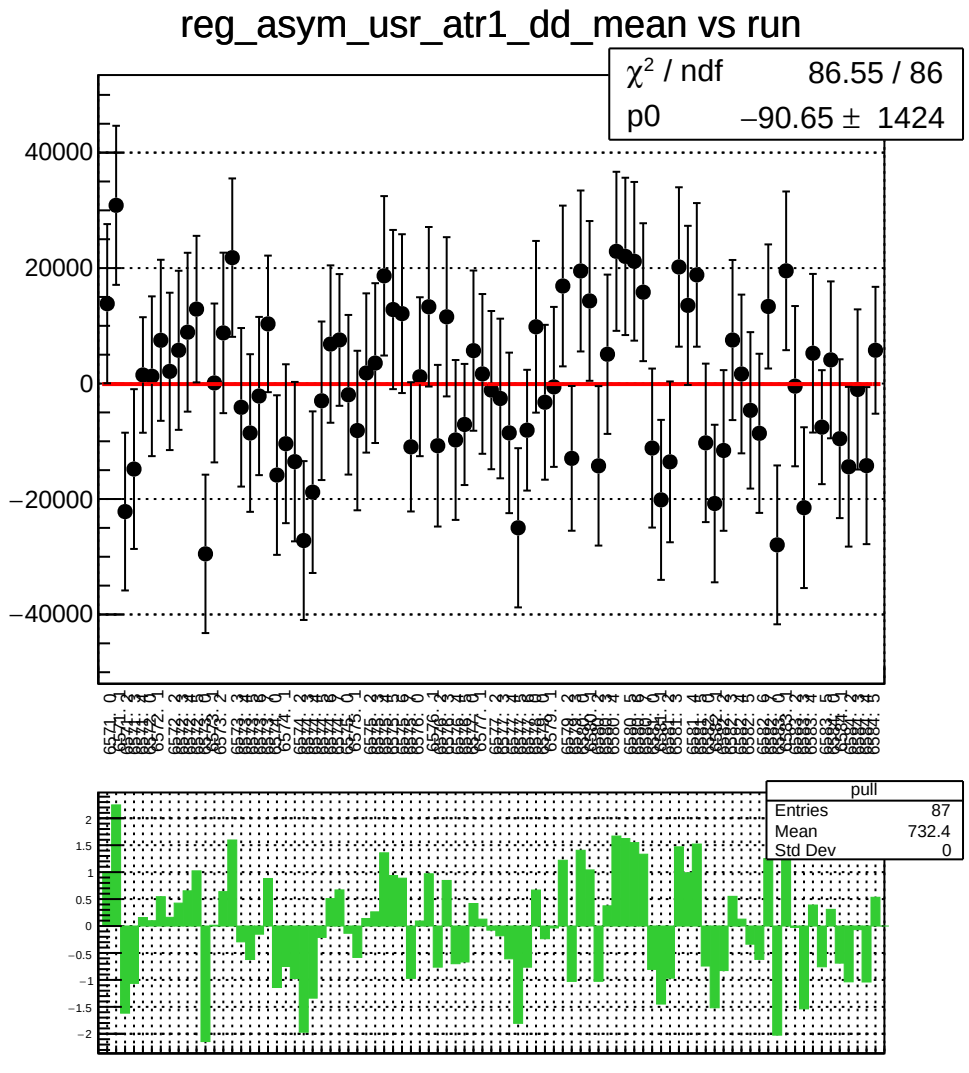

pull1D
Entries 87
Mean 0.007429
Std Dev 1.007

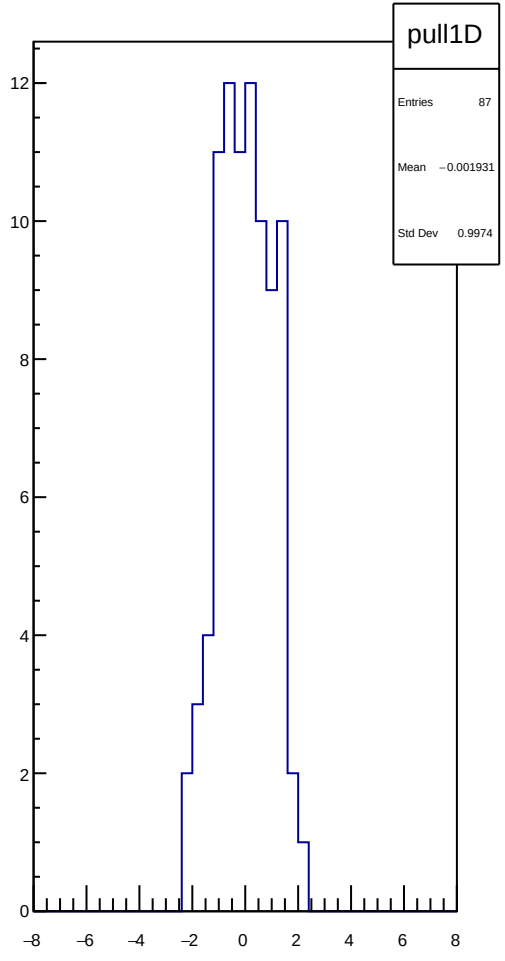

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.621e+05 / 86
p0 93.37 ± 0.07562
300
250
200
150
100
50

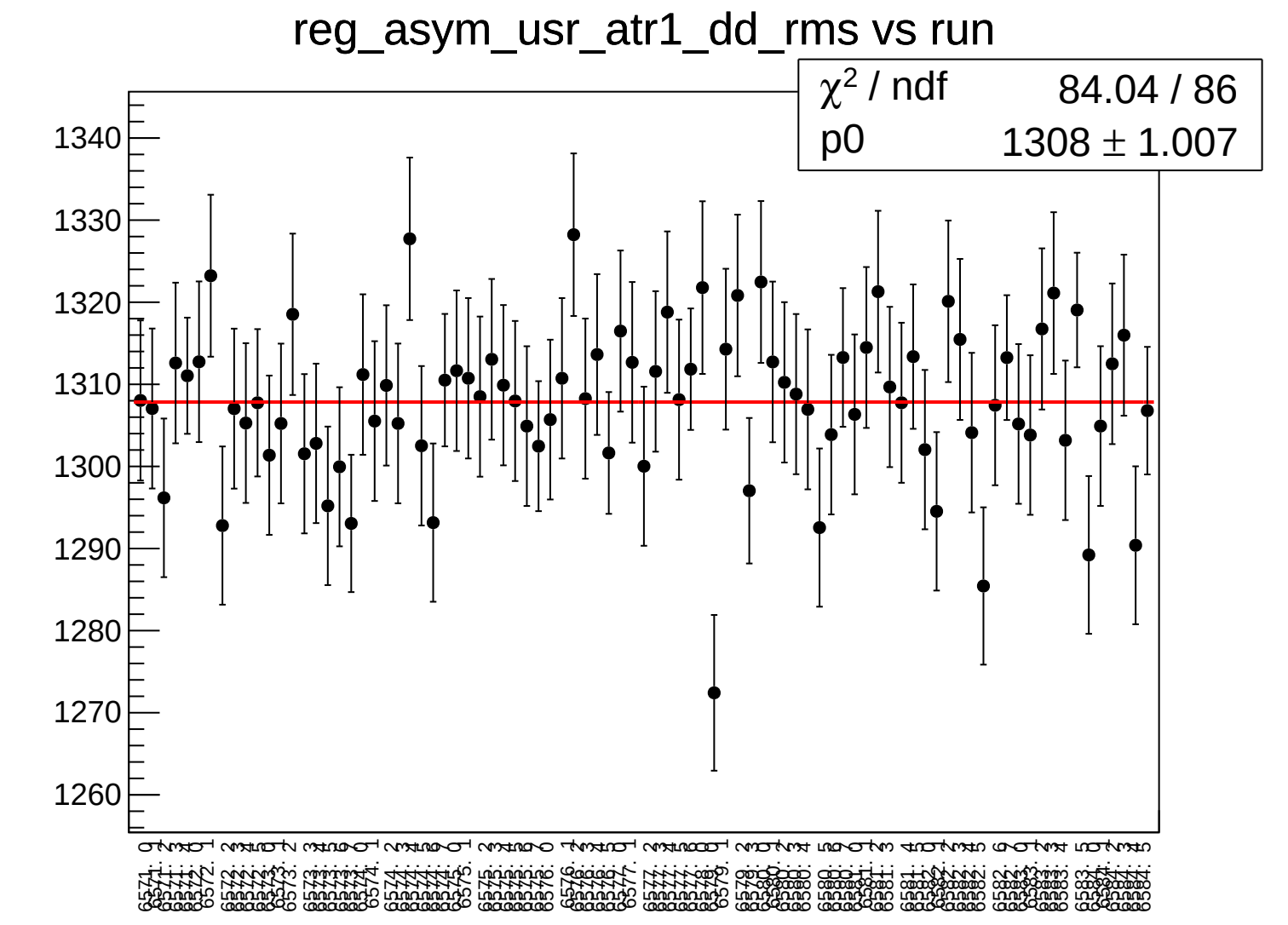

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.74 / 86
p0 −1.338e−15 ± 1.322e−14
pull
Entries 87
Mean −5022
Std Dev 0

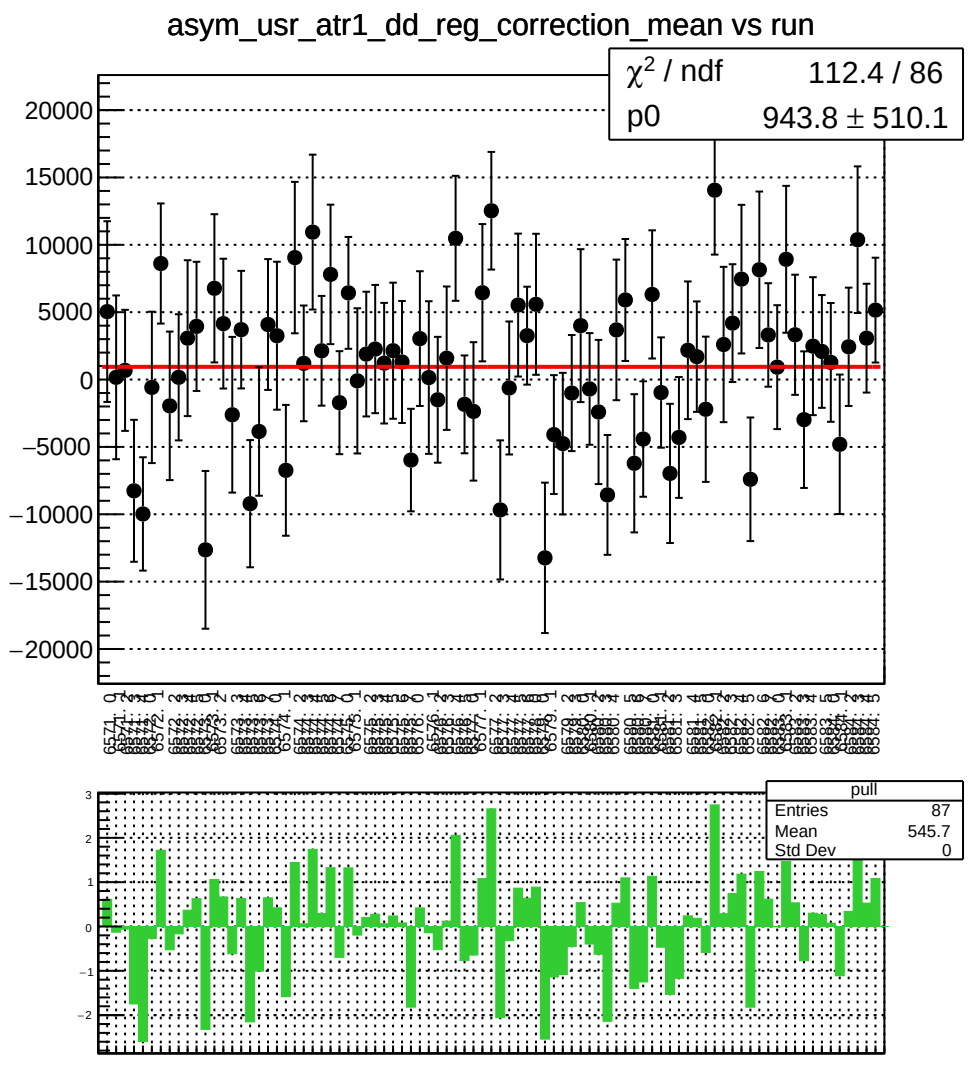

pull1D
Entries 87
Mean 0.0002919
Std Dev 1.032

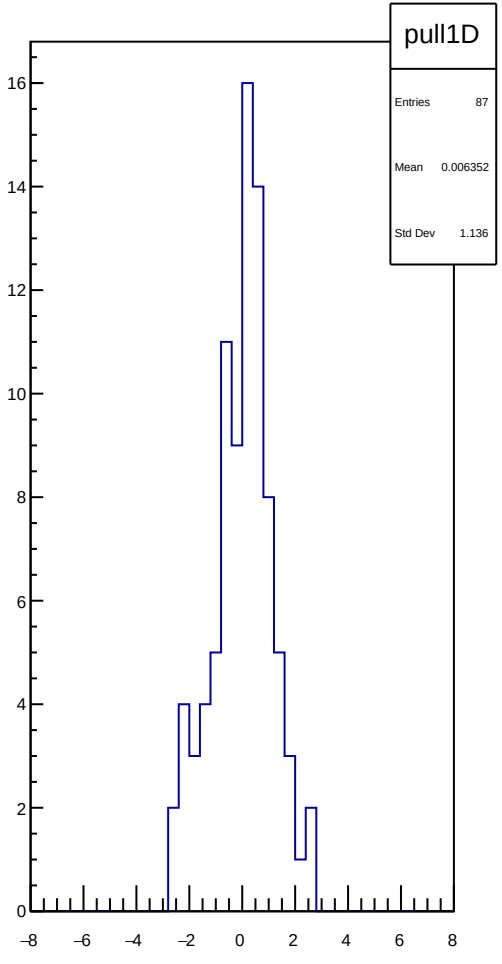

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.855e+05 / 86
p0 9.807e−12 ± 9.345e−15
80
70
60
50
40
30
20
10

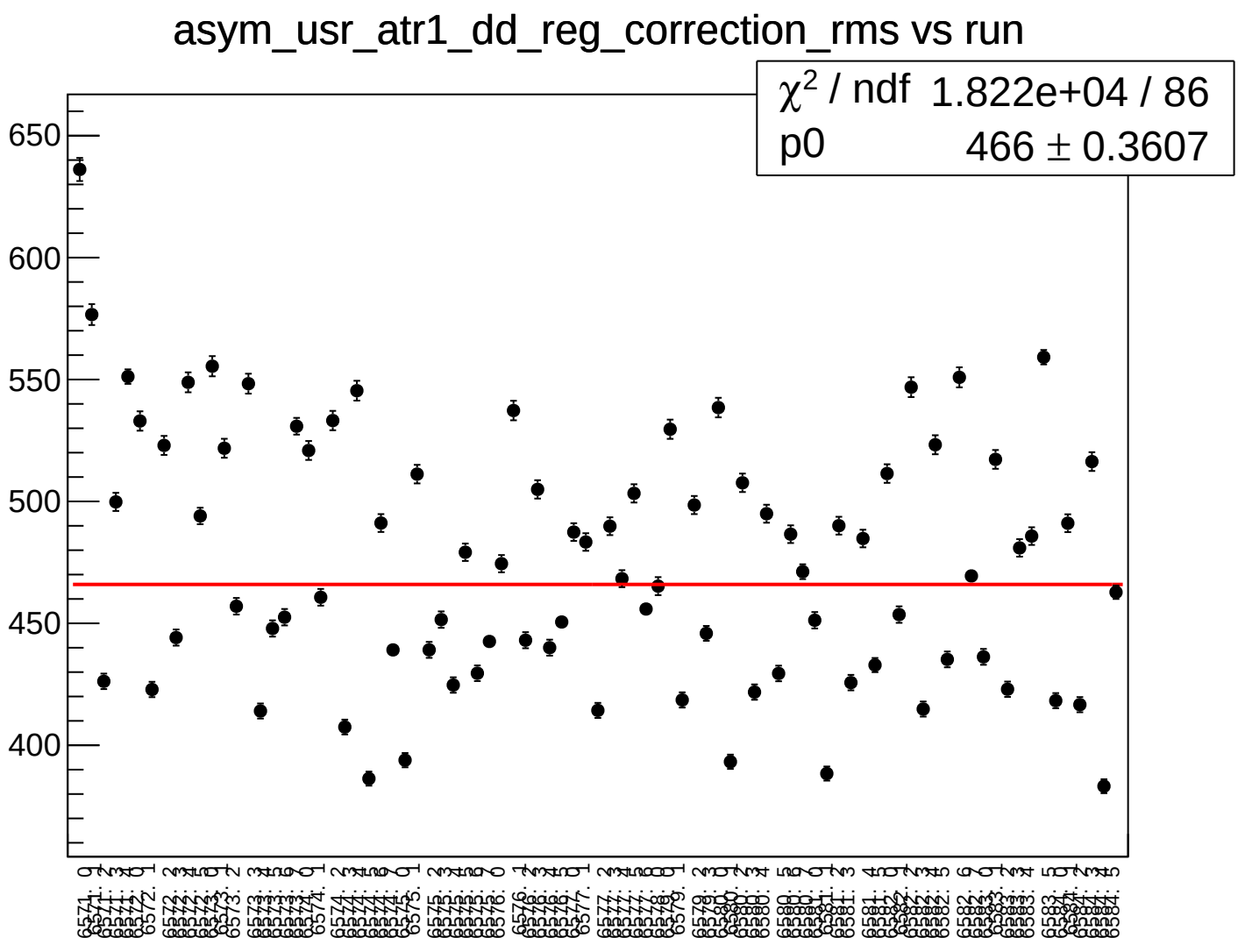

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 86.55 / 86
p0 −90.65 ± 1424
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 732.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

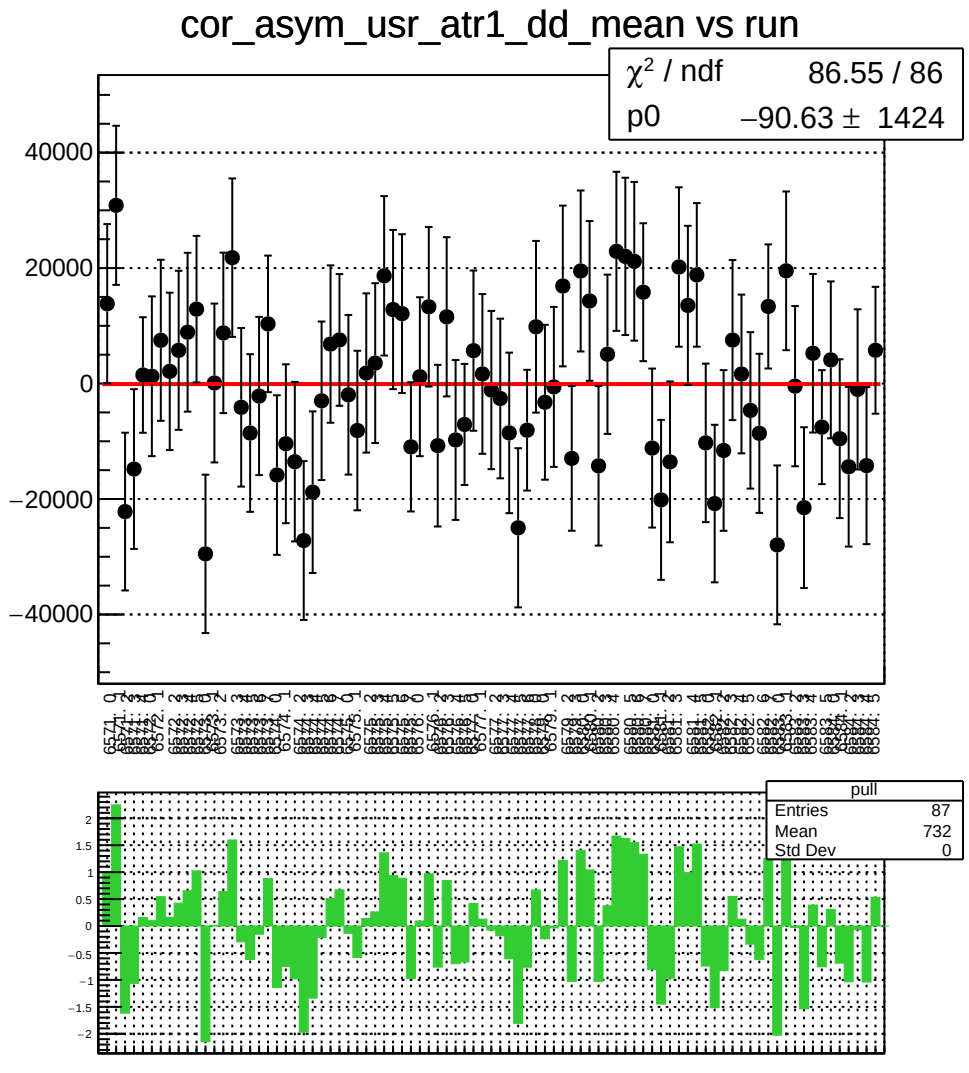

pull1D
Entries 87
Mean −0.001931
Std Dev 0.9974
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

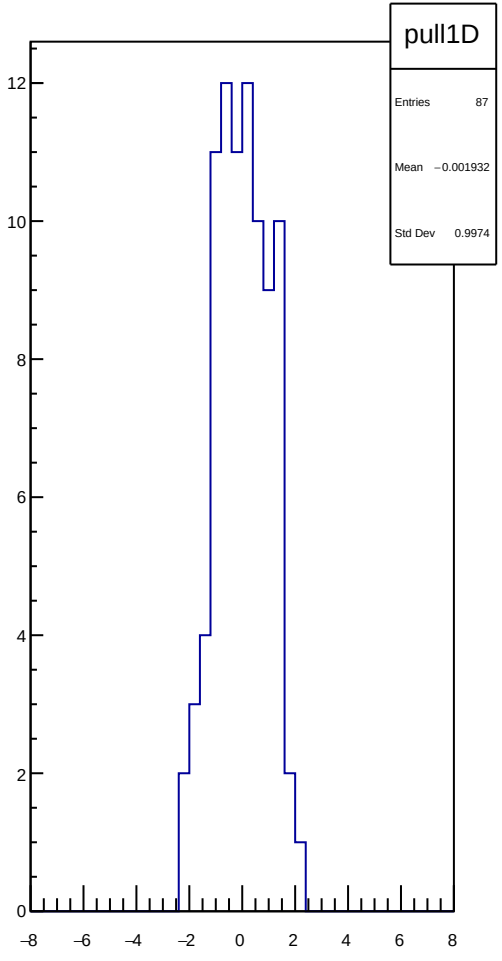

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 84.04 / 86
p0 1308 ± 1.007
1340
1330
1320
1310
1300
1290
1280
1270
1260

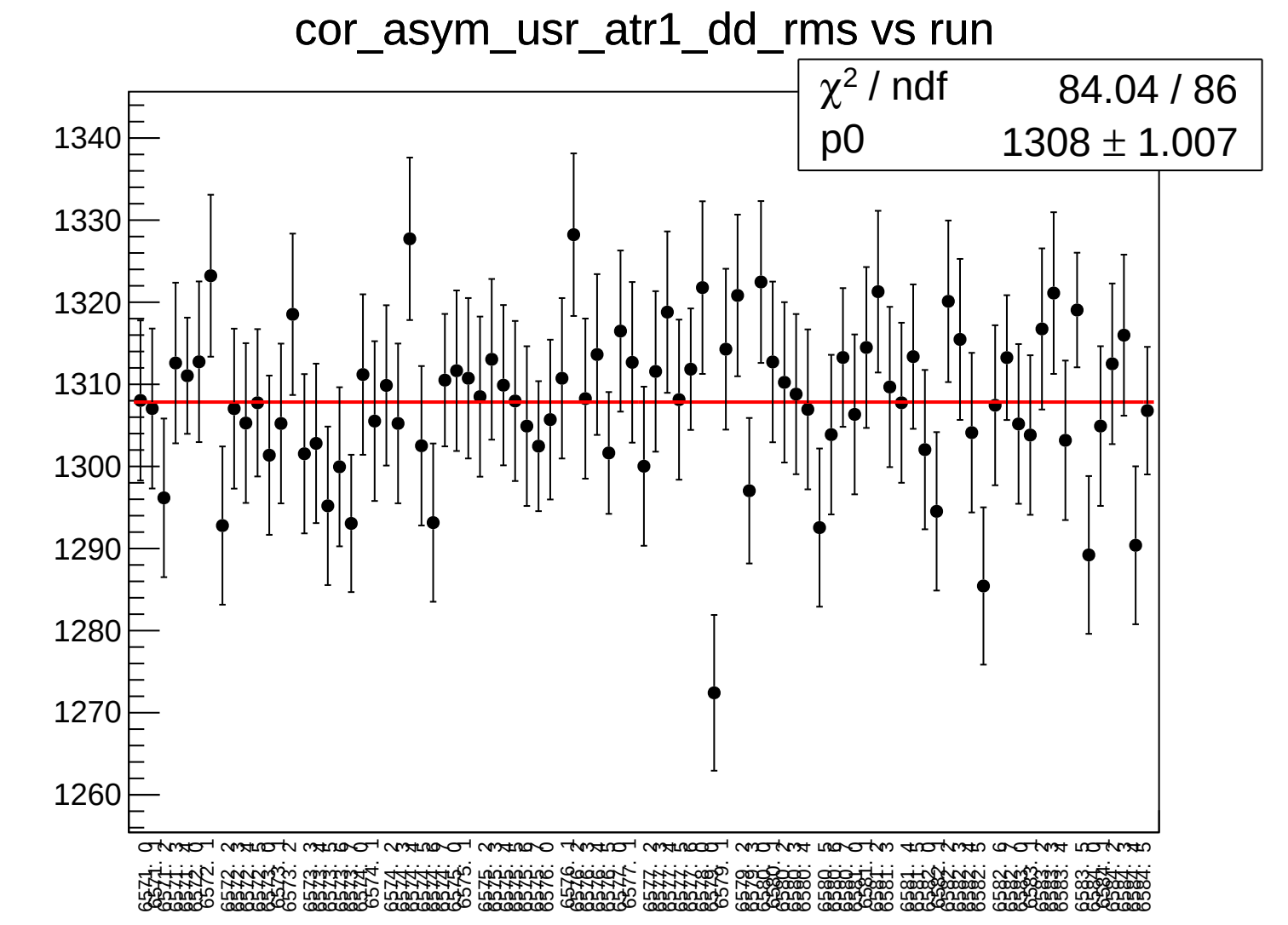

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 112.4 / 86
p0 943.8 ± 510.1
pull
Entries 87
Mean 545.7
Std Dev 0

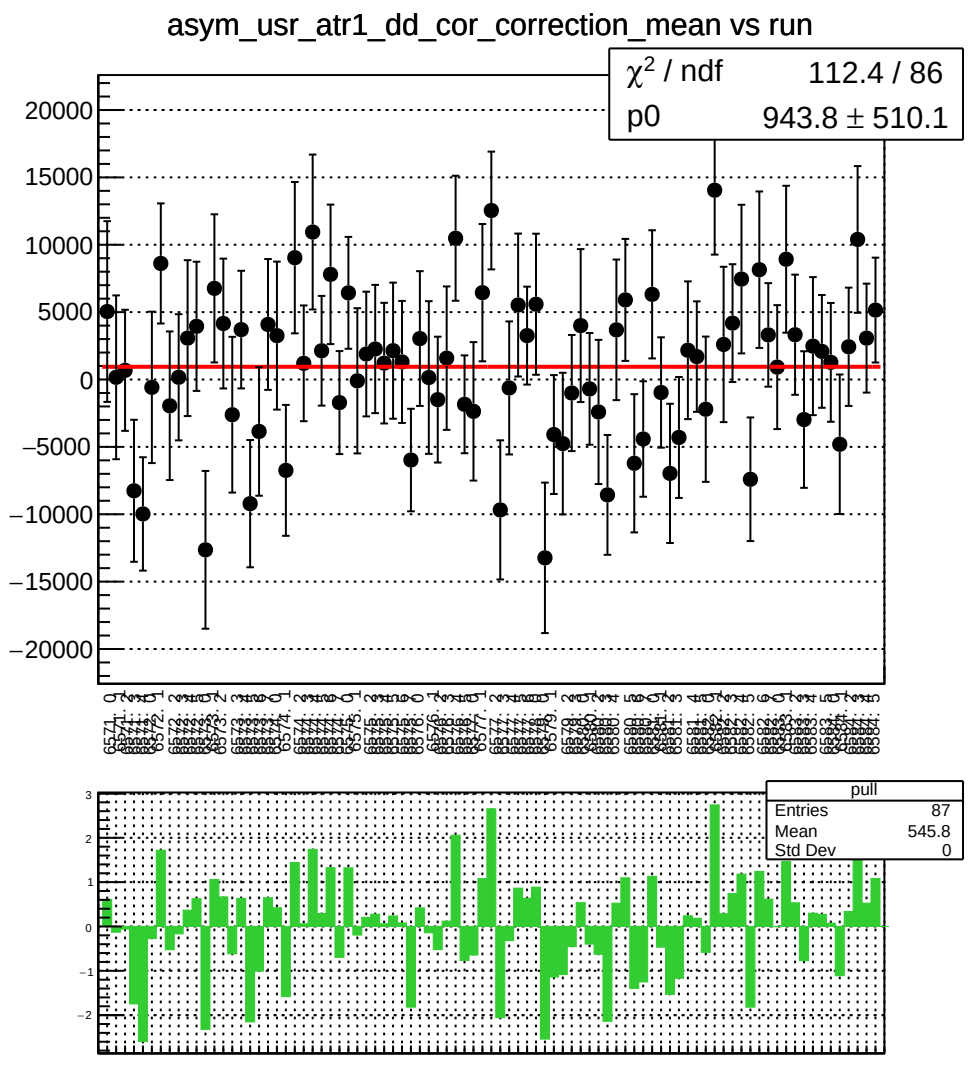

pull1D
Entries 87
Mean 0.006352
Std Dev 1.136

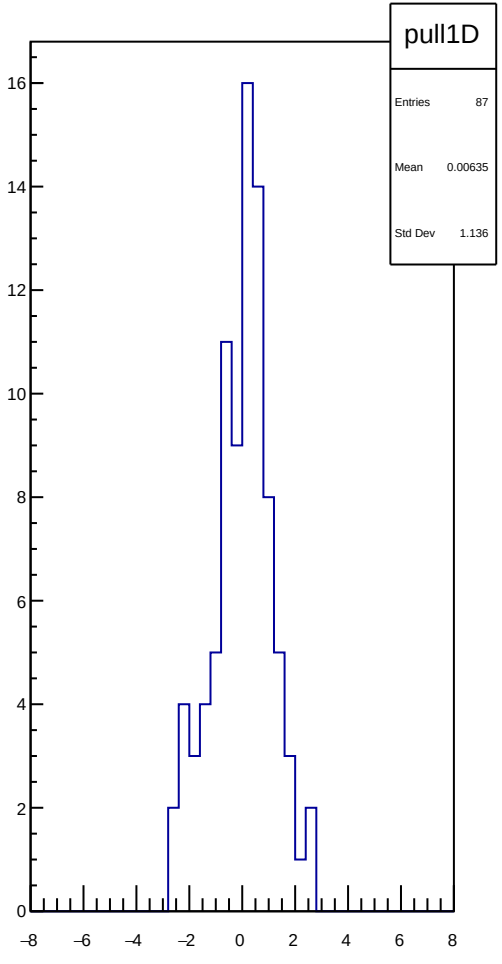

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.822e+04 / 86
p0 466 ± 0.3607
650
600
550
500
450
400

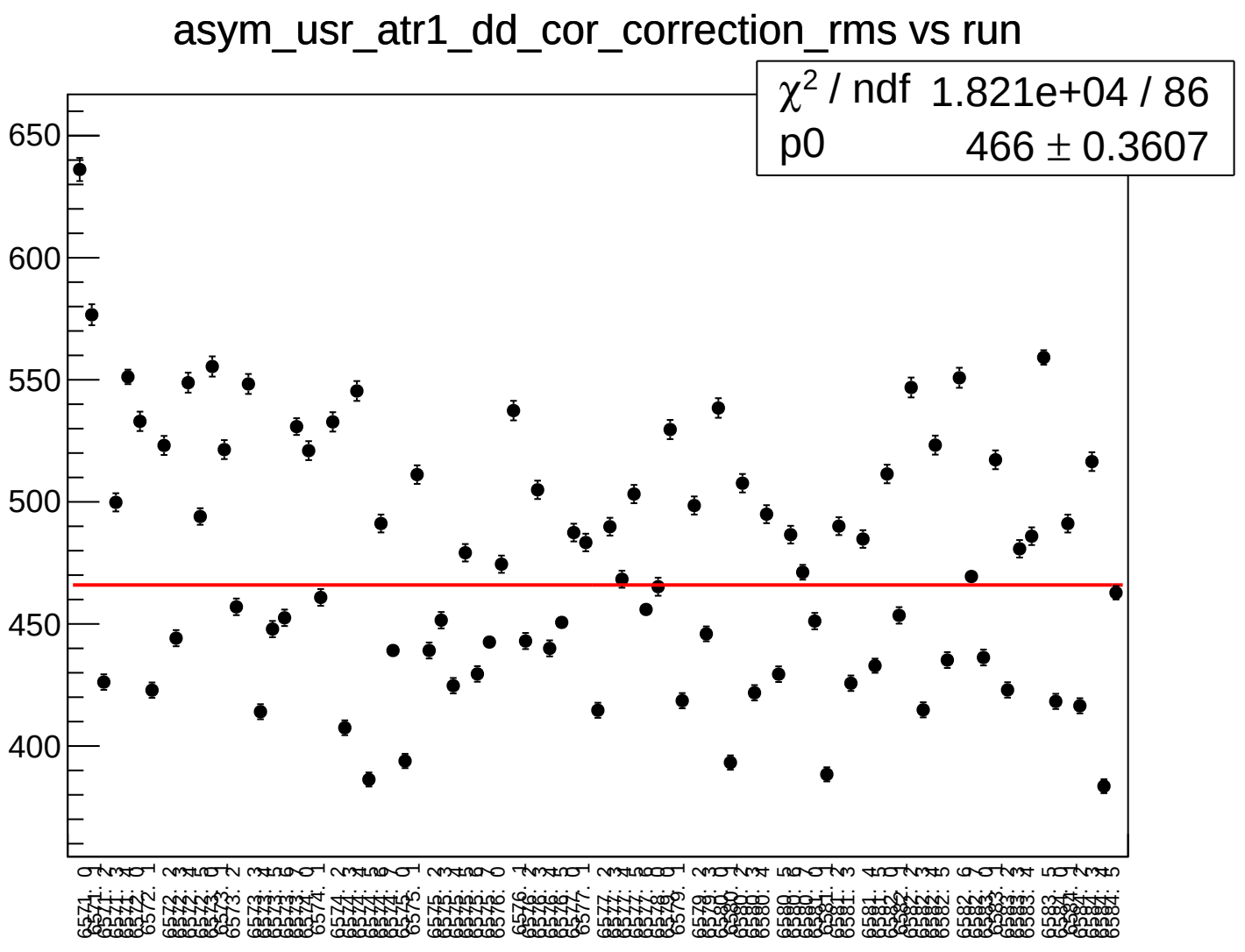

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 86.55 / 86
p0 −90.63 ± 1424
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 732
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

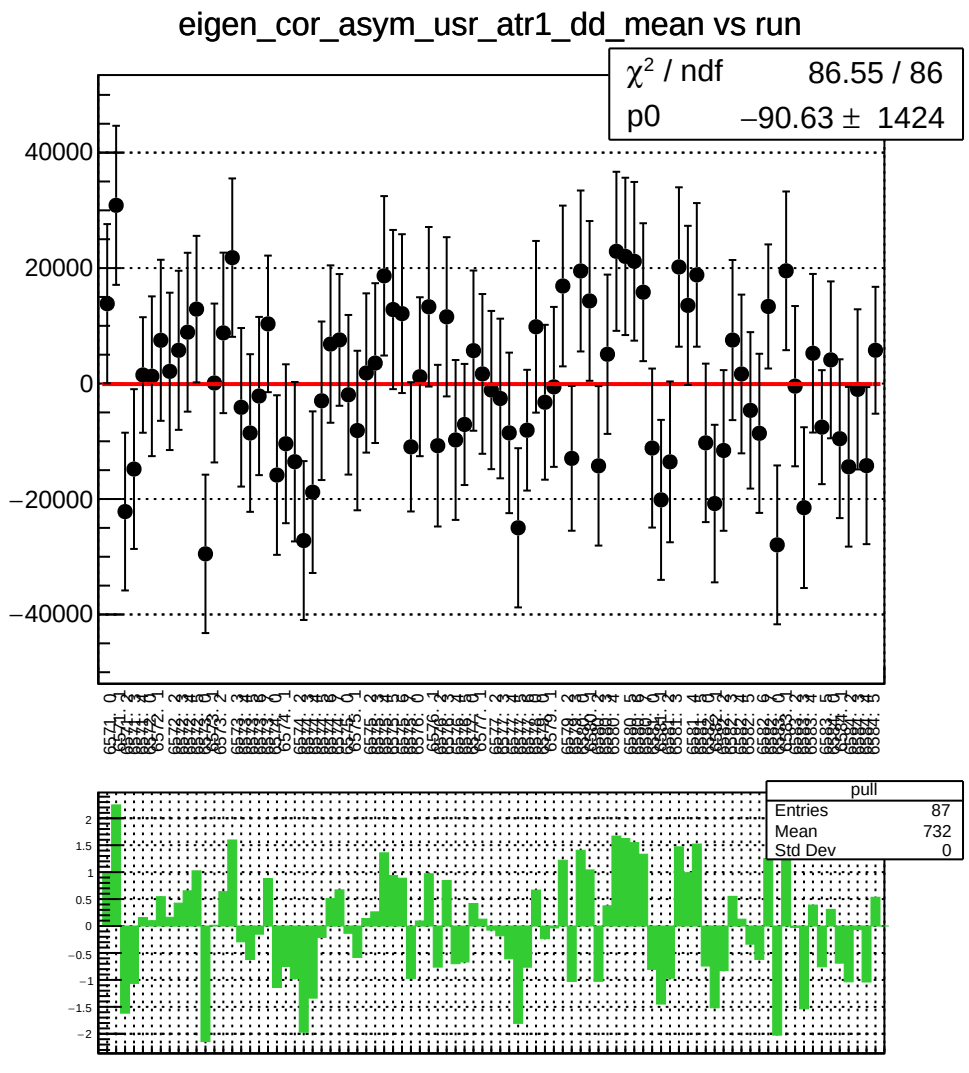

pull1D
Entries 87
Mean −0.001932
Std Dev 0.9974
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

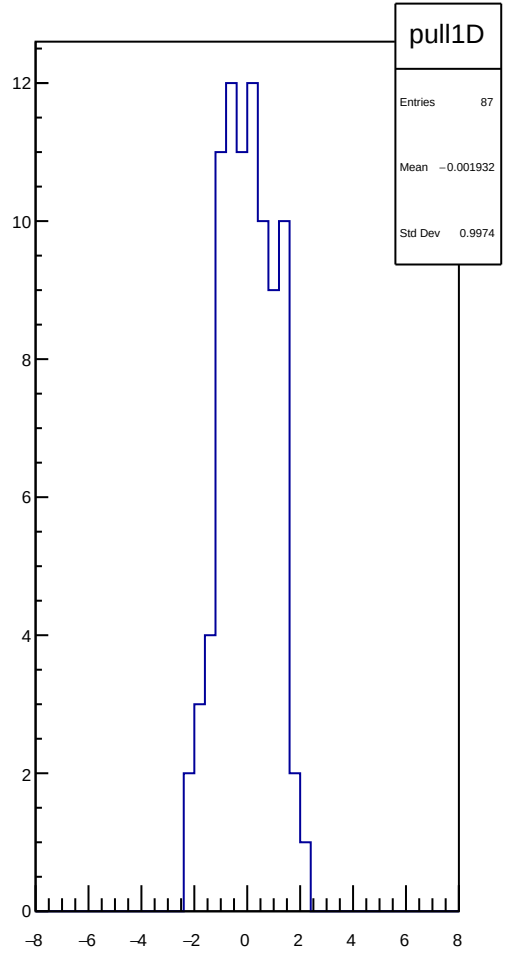

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 84.04 / 86
p0 1308 ± 1.007
1340
1330
1320
1310
1300
1290
1280
1270
1260

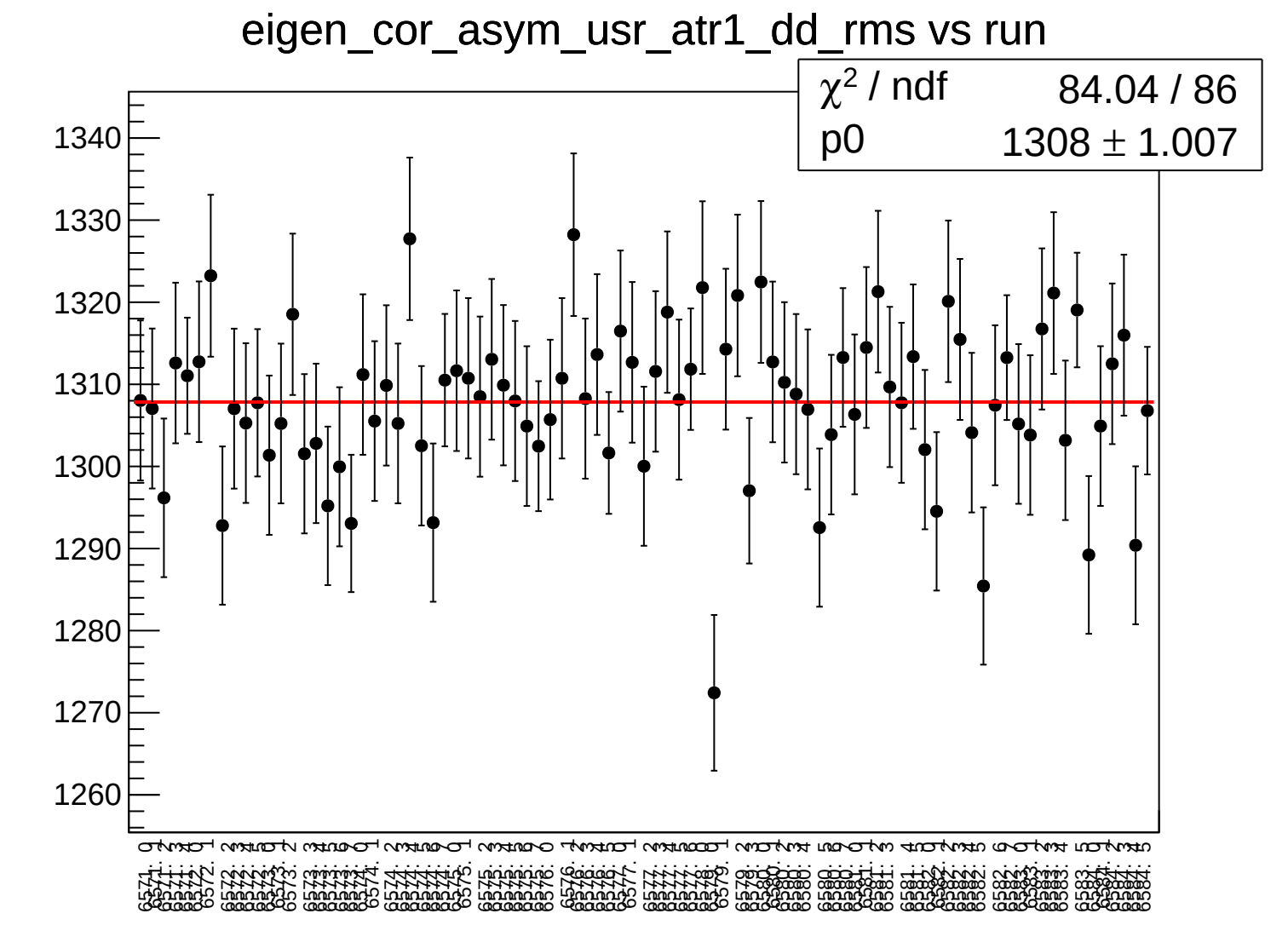

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 112.4 / 86
p0 943.8 ± 510.1
pull
Entries 87
Mean 545.8
Std Dev 0

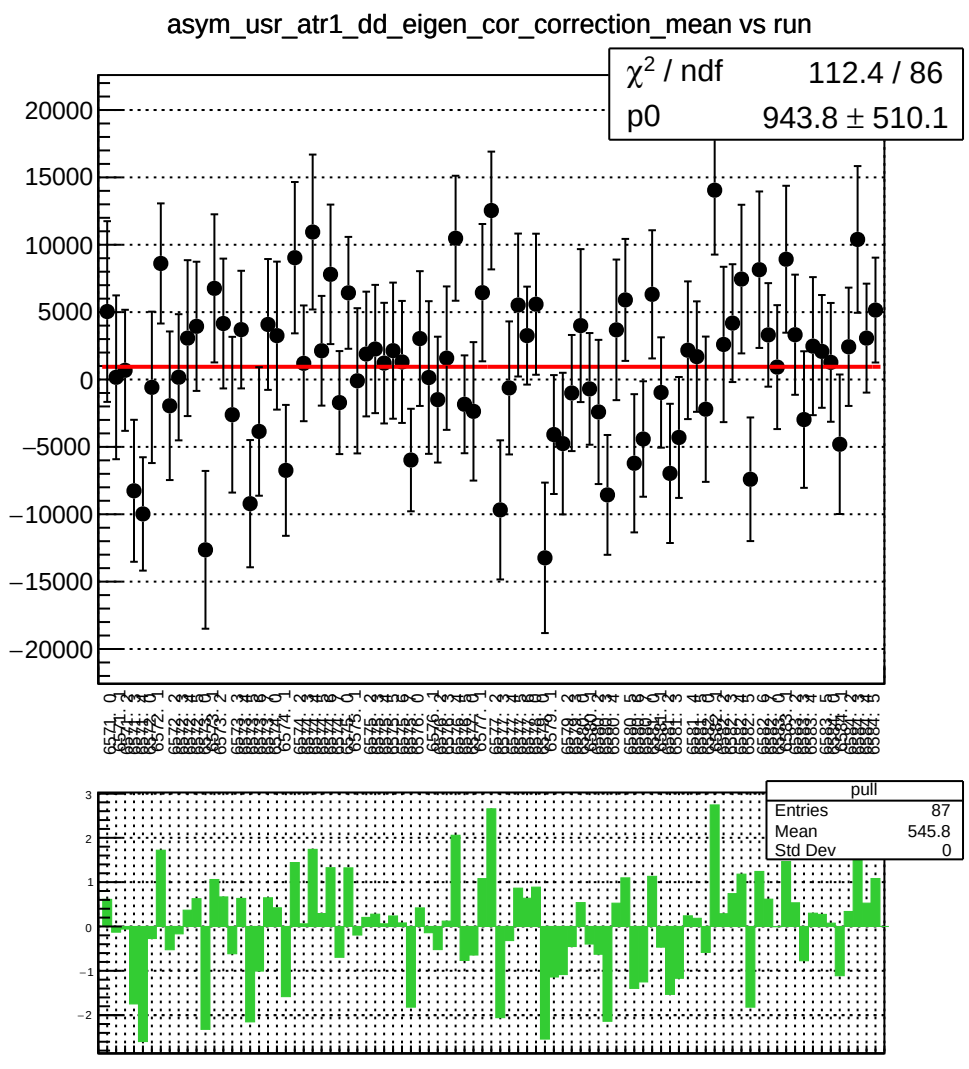

pull1D
Entries 87
Mean 0.00635
Std Dev 1.136

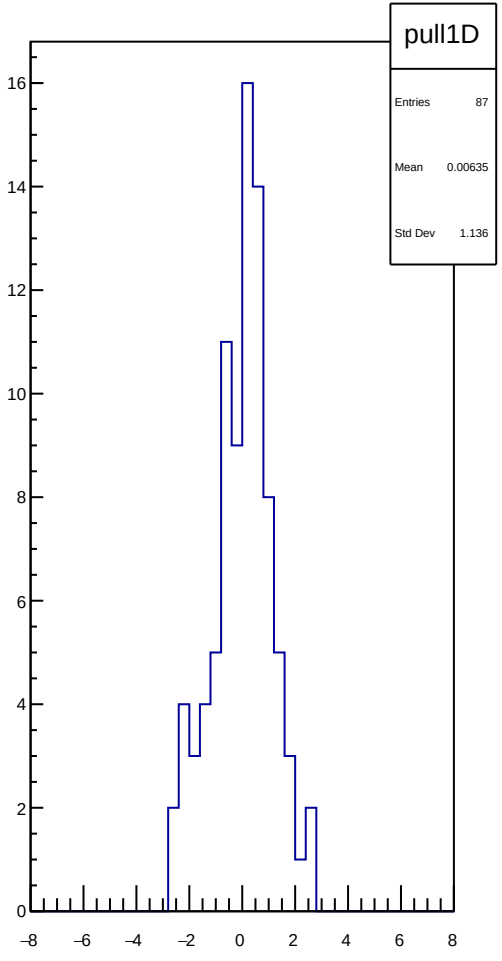

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.821e+04 / 86
p0 466 ± 0.3607
650
600
550
500
450
400

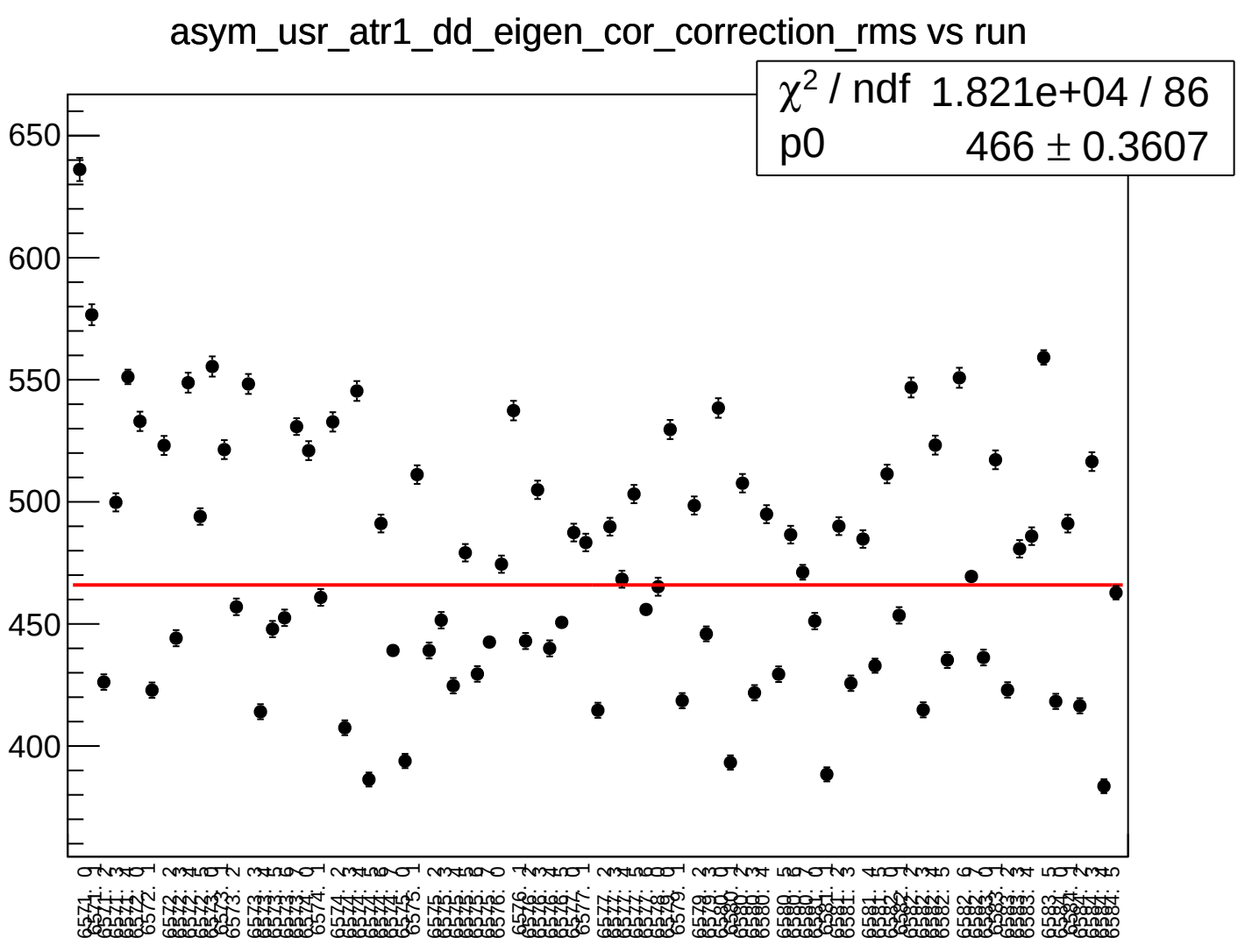

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 86.55 / 86
p0 −90.63 ± 1424
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 732
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

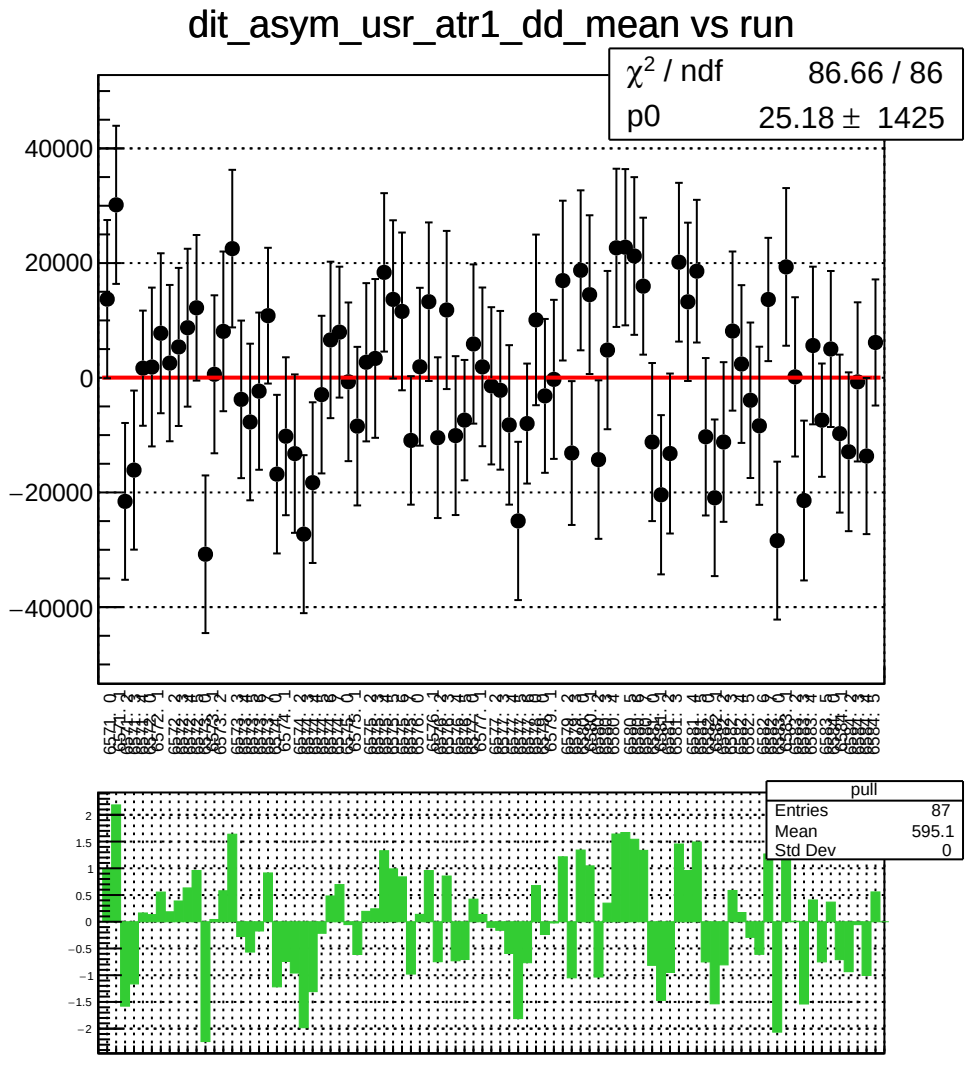

pull1D
Entries 87
Mean −0.001932
Std Dev 0.9974
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

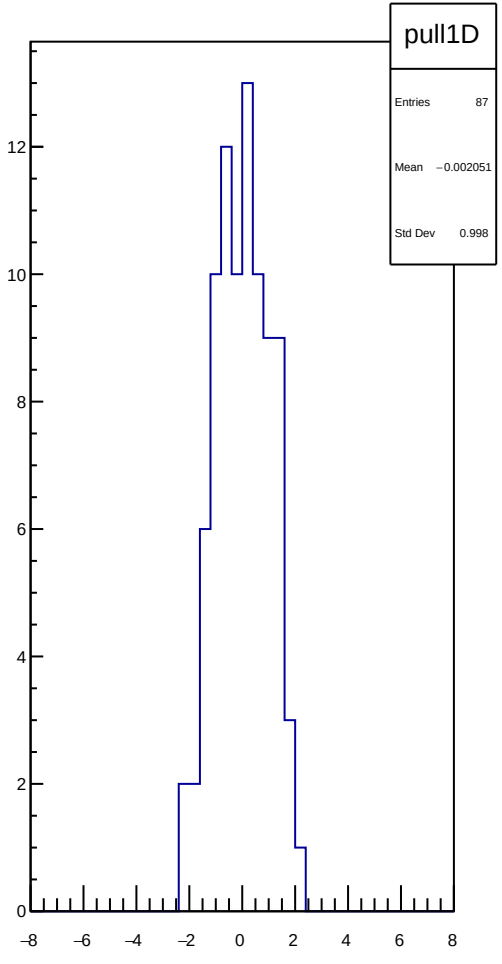

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 84.04 / 86
p0 1308 ± 1.007
1340
1330
1320
1310
1300
1290
1280
1270
1260

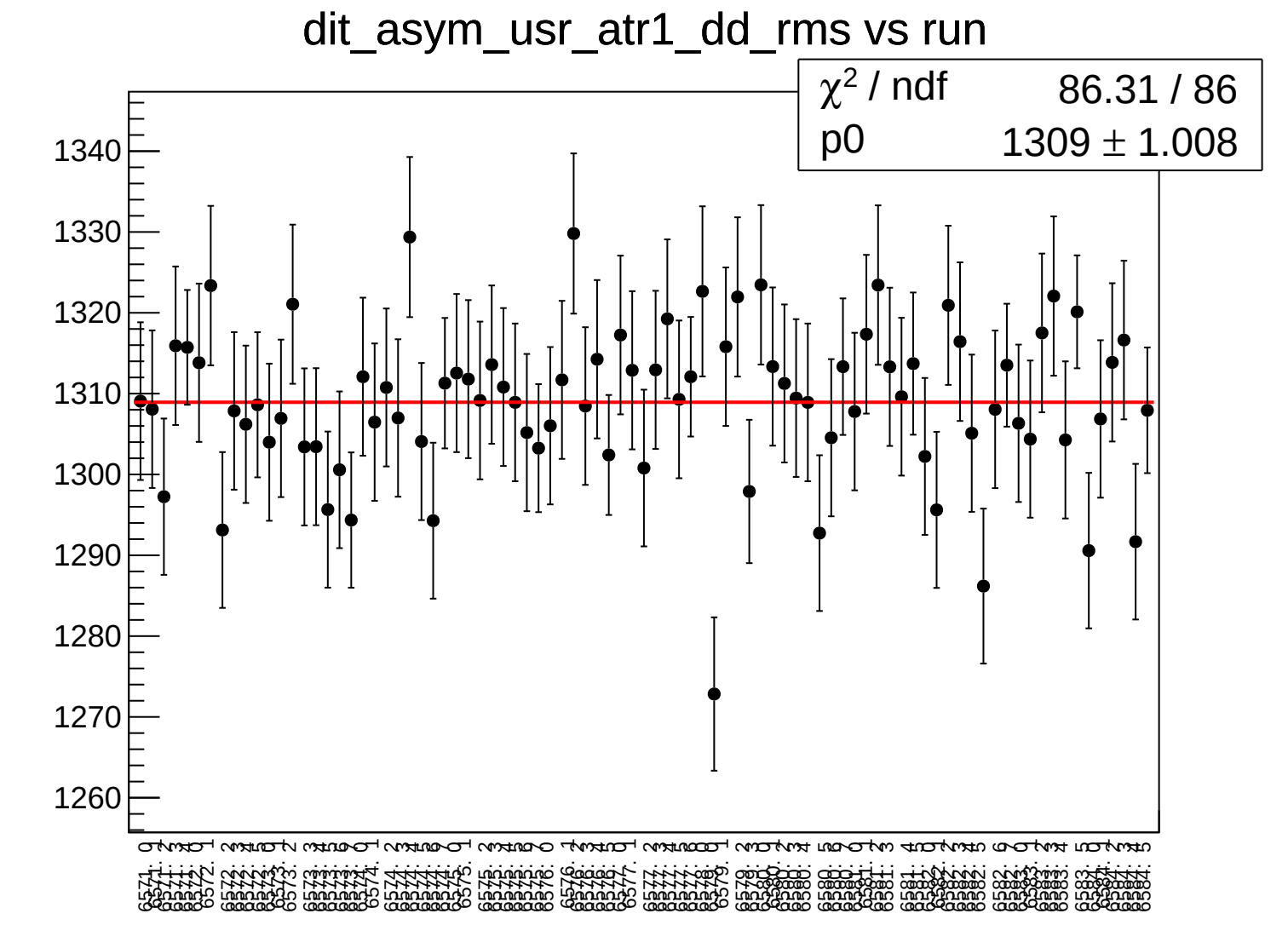

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.4 / 86
p0 943.8 ± 510.1
pull
Entries 87
Mean 545.8
Std Dev 0

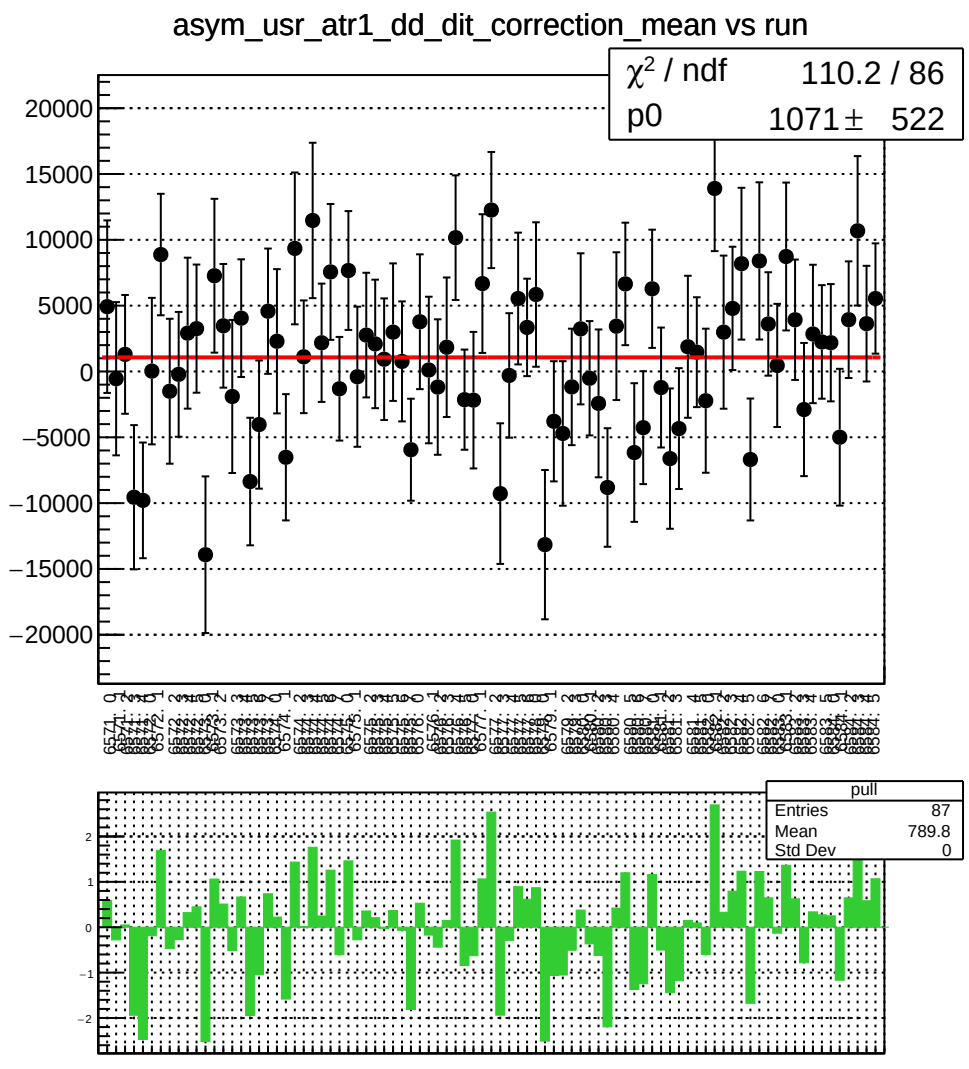

pull1D
Entries 87
Mean 0.00635
Std Dev 1.136

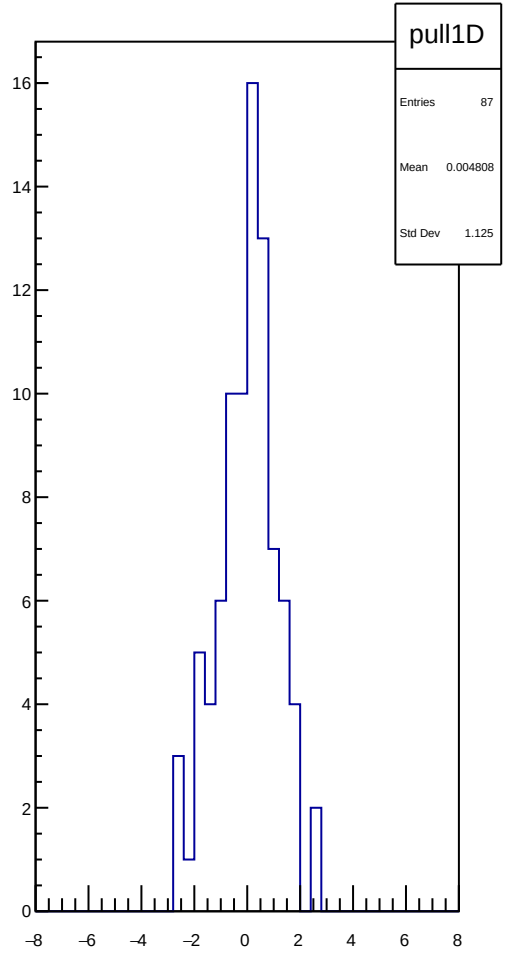

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.821e+04 / 86
p0 466 ± 0.3607
650
600
550
500
450
400

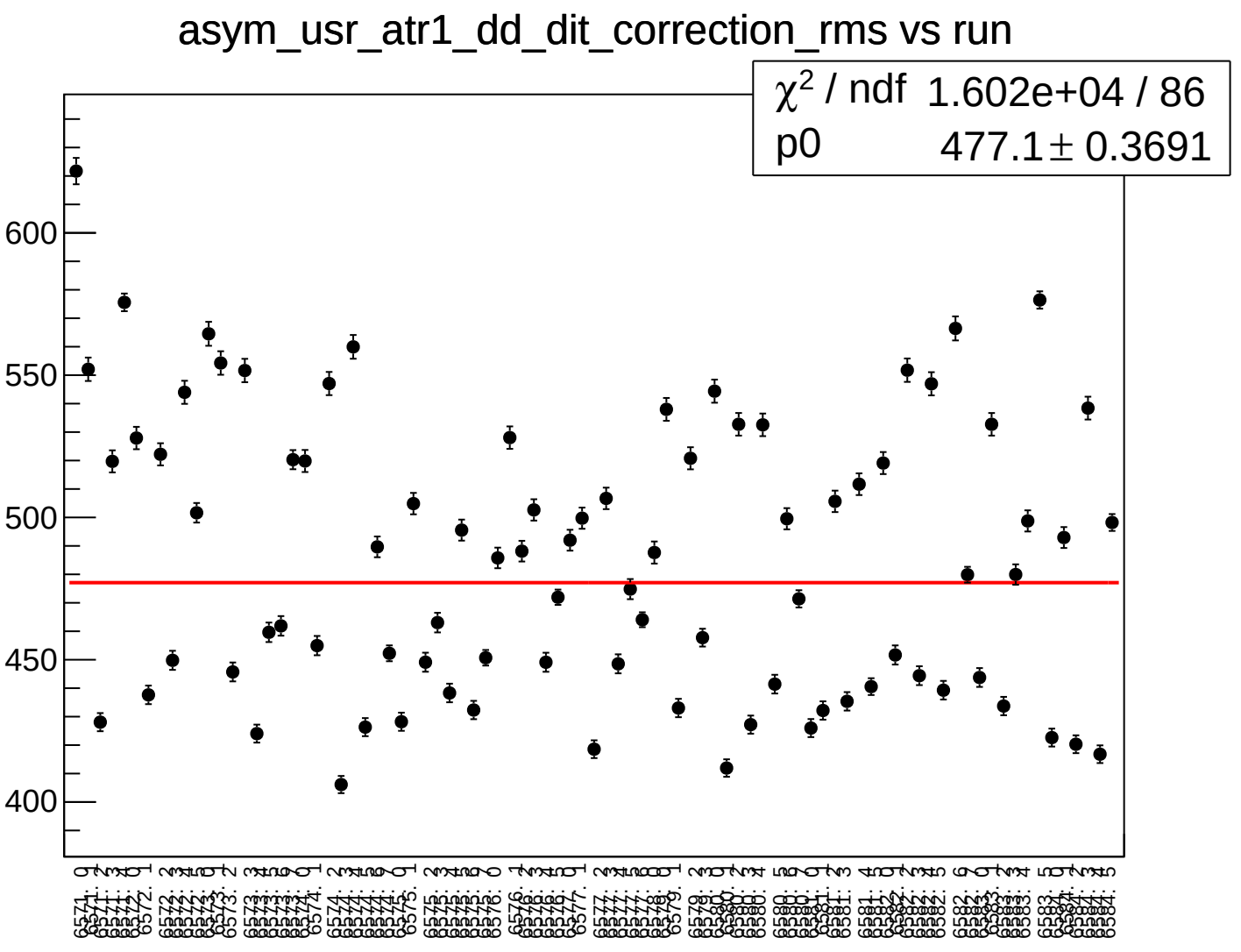

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 86.66 / 86
p0 25.18 ± 1425
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 595.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

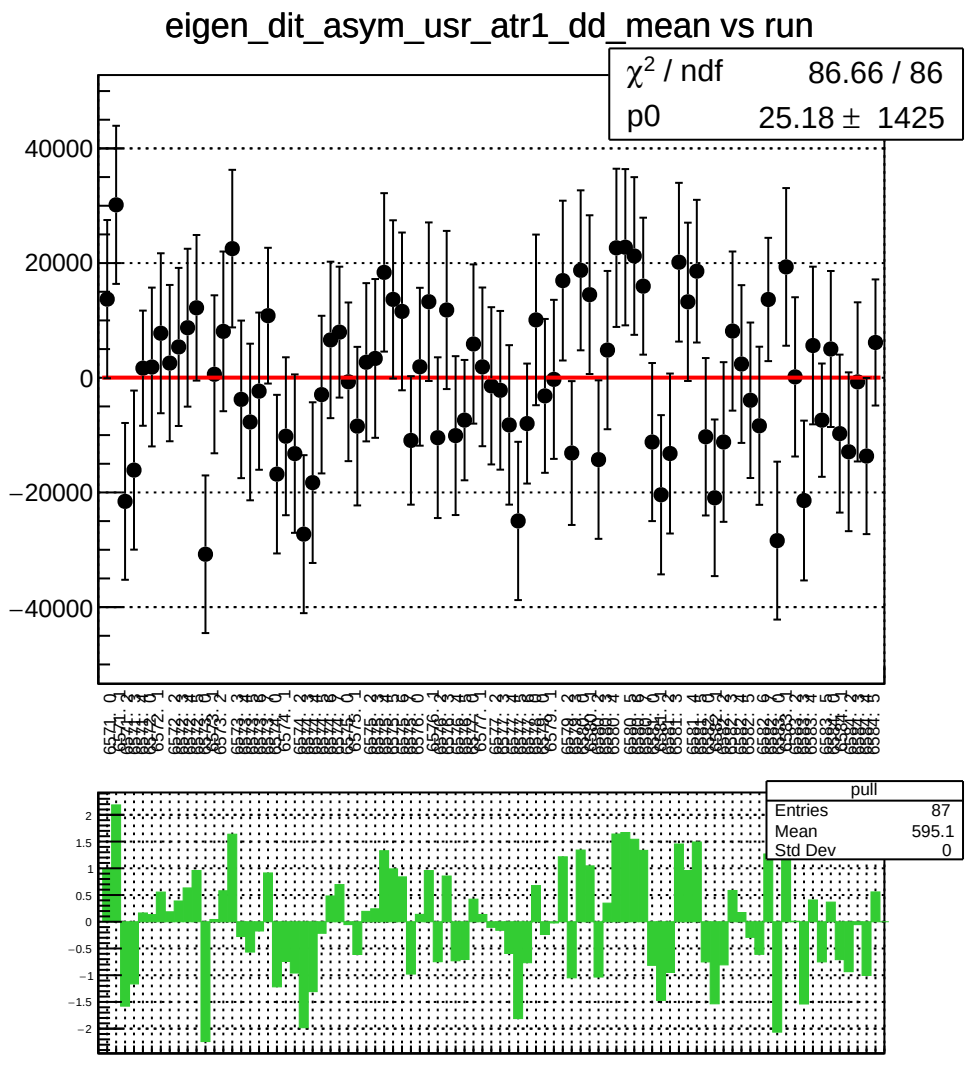

pull1D
Entries 87
Mean −0.002051
Std Dev 0.998
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

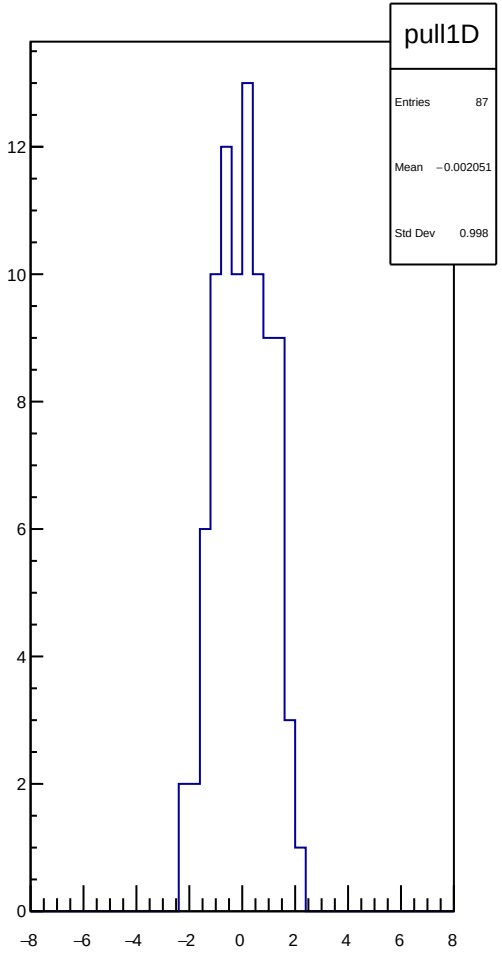

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 86.31 / 86
p0 1309 ± 1.008
1340
1330
1320
1310
1300
1290
1280
1270
1260

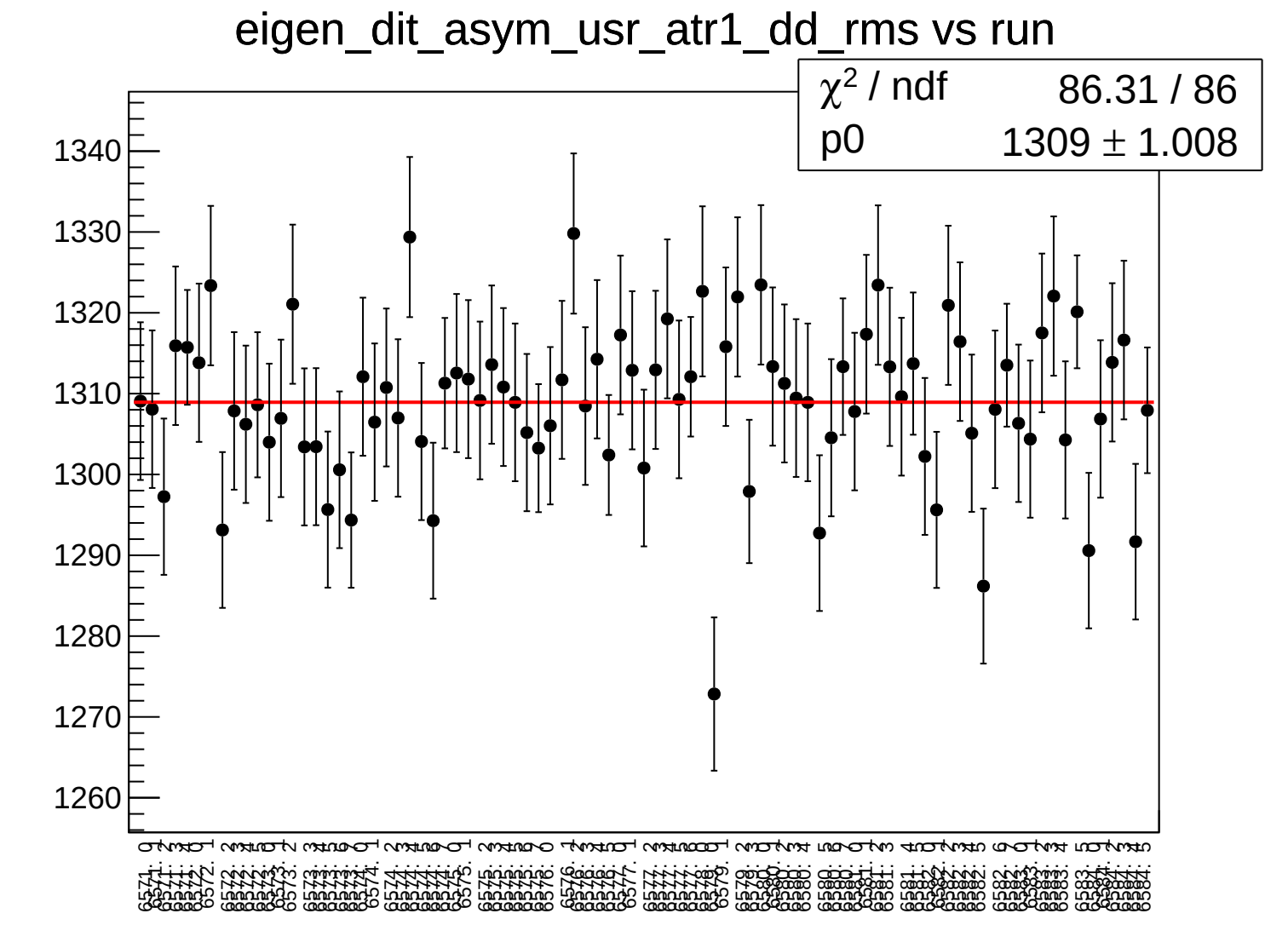

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 110.2 / 86
p0 1071 ± 522
pull
Entries 87
Mean 789.8
Std Dev 0

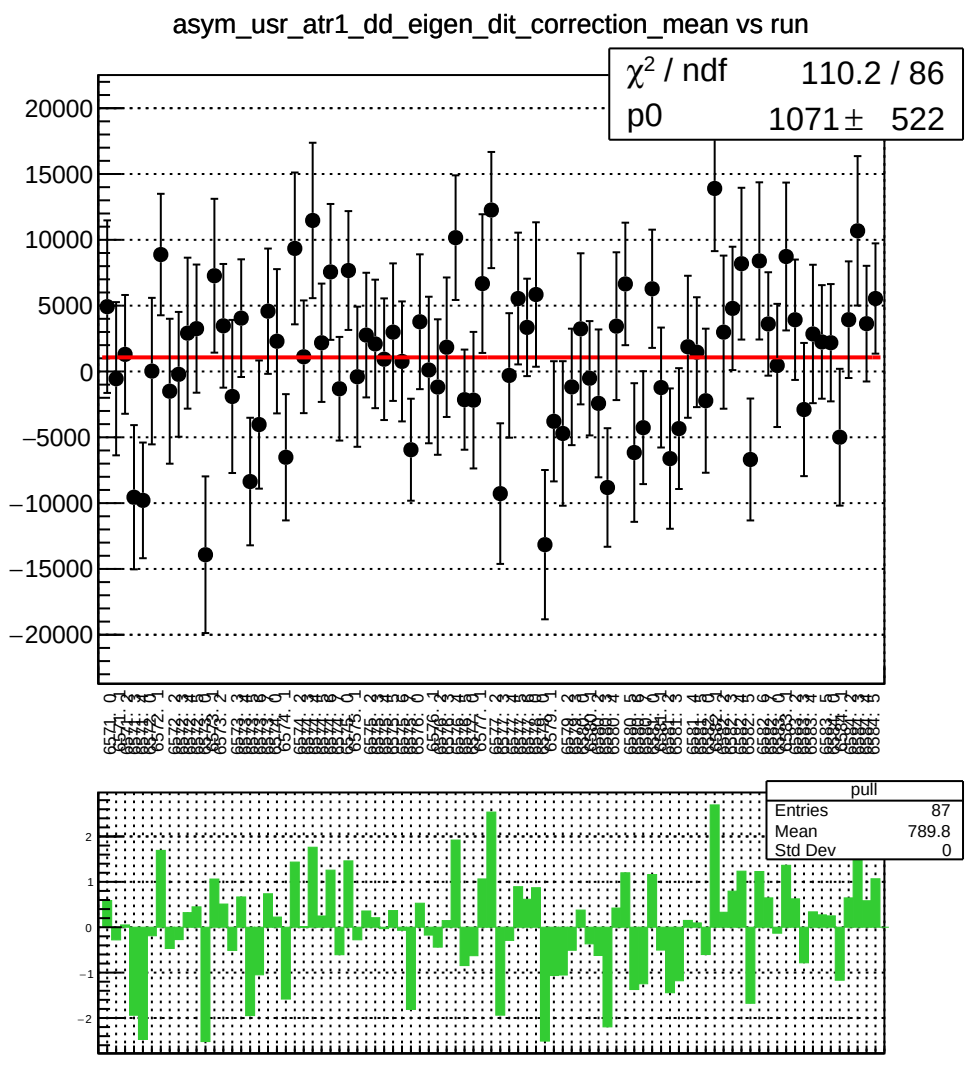

pull1D
Entries 87
Mean 0.004808
Std Dev 1.125

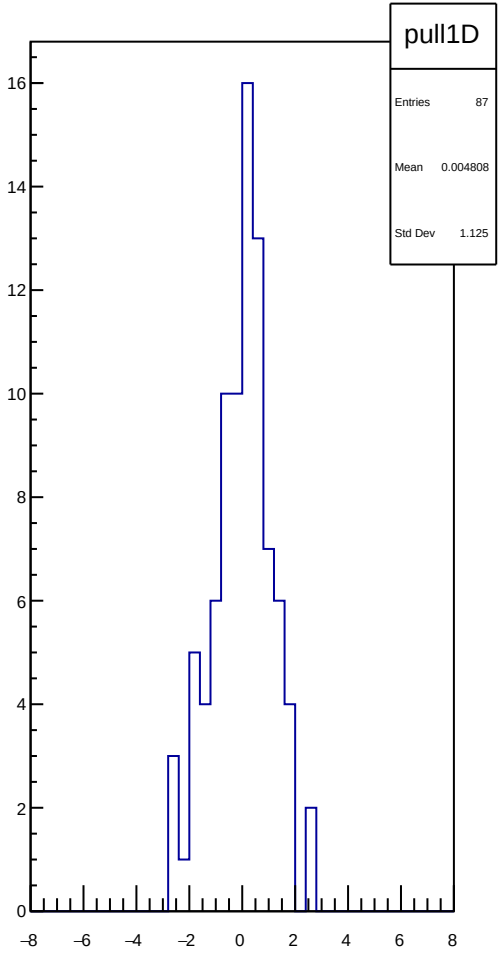

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.602e+04 / 86
p0 477.1 ± 0.3691
600
550
500
450
400

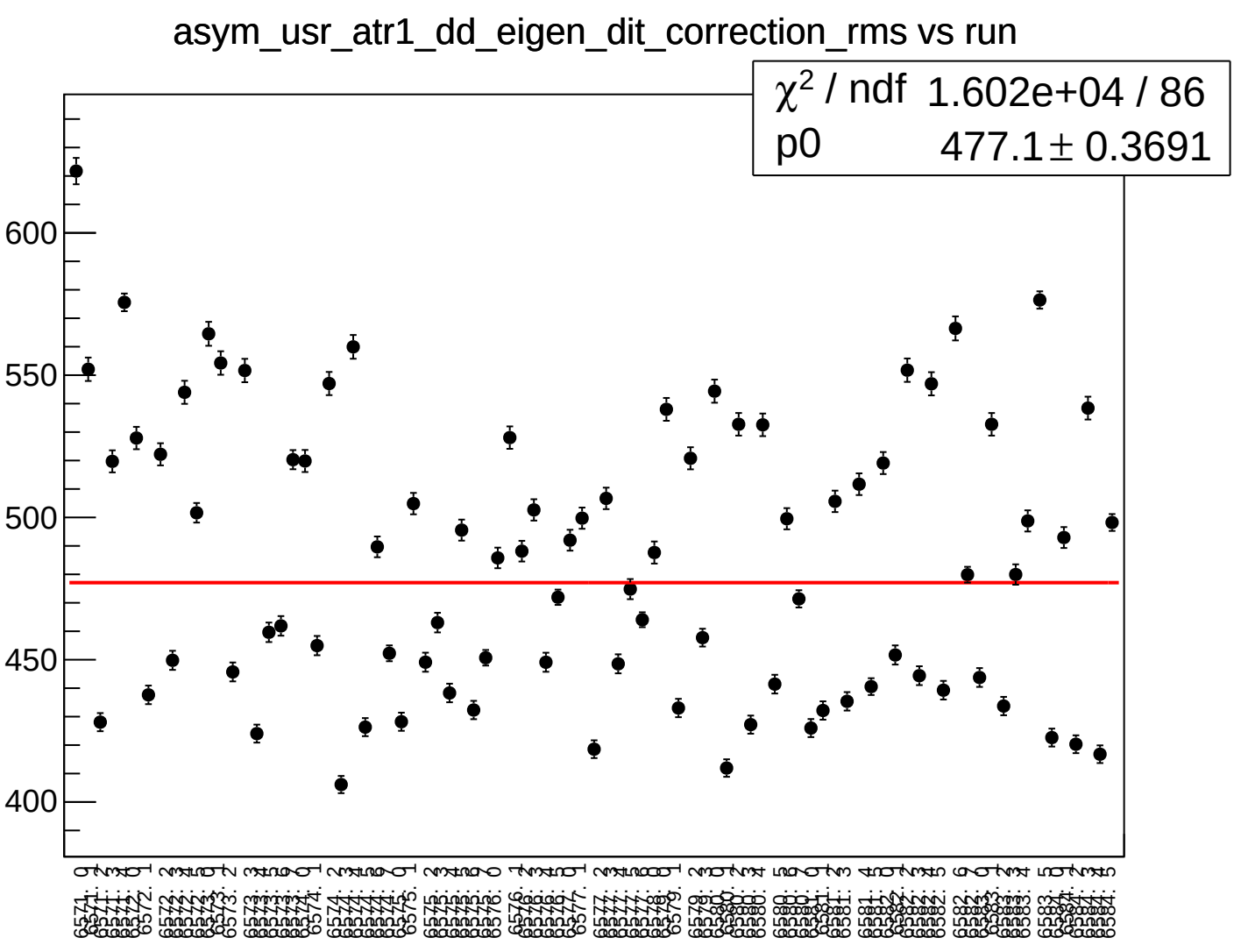

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 86.66 / 86
p0 25.18 ± 1425
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 595.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

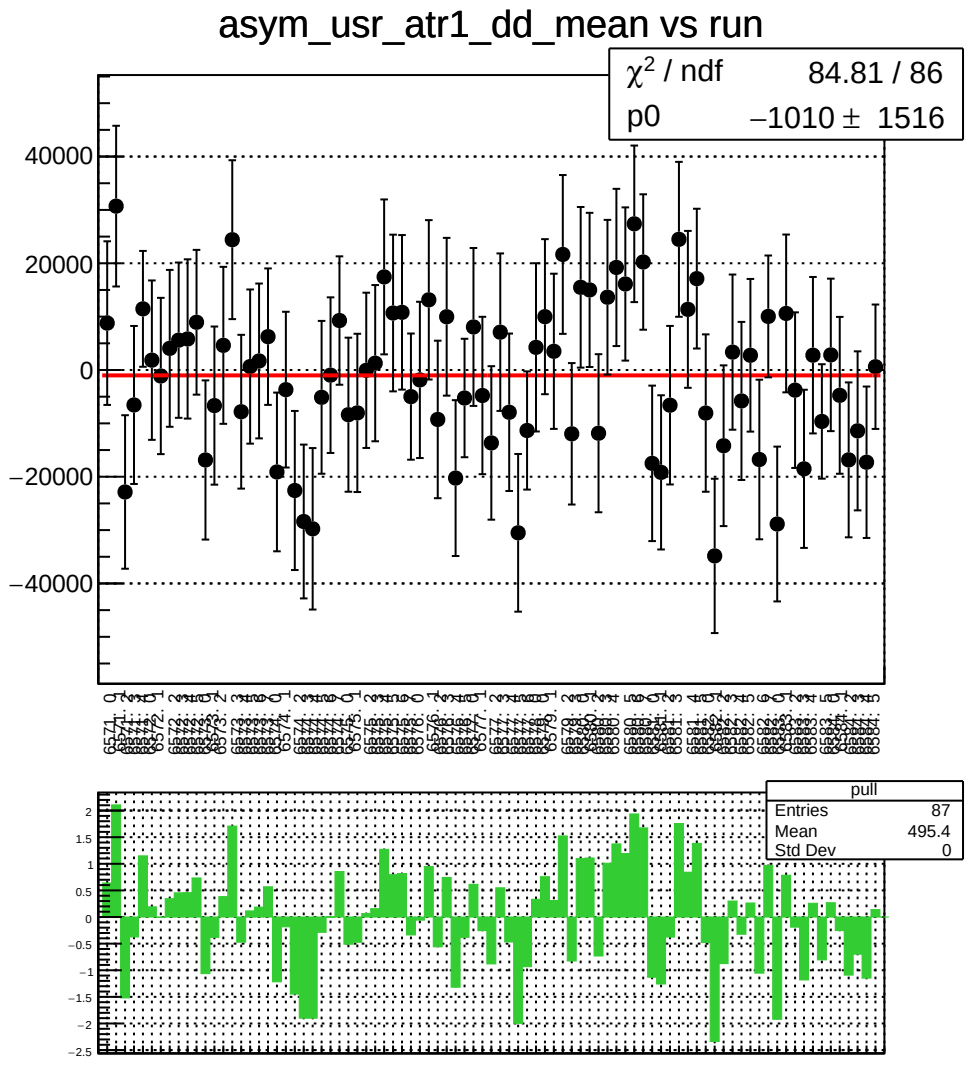

pull1D
Entries 87
Mean −0.002051
Std Dev 0.998
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

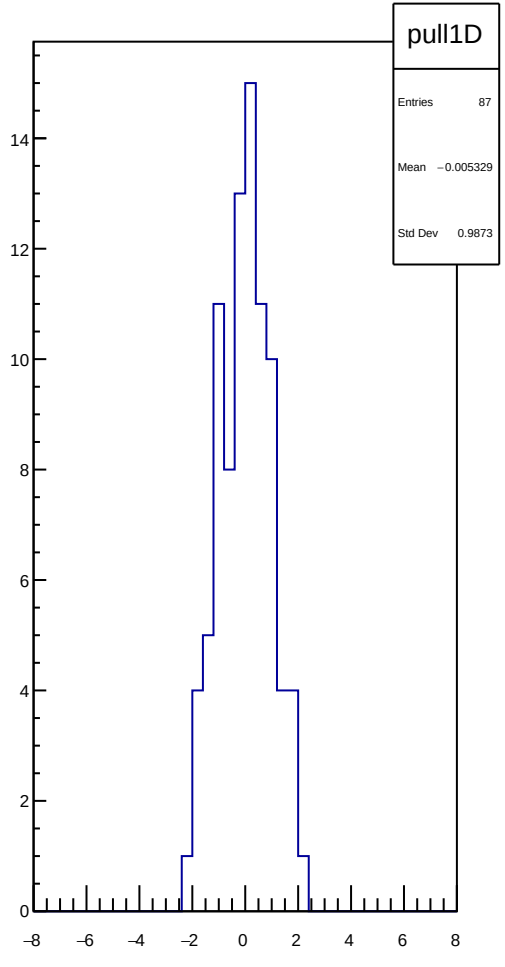

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 86.31 / 86
p0 1309 ± 1.008
1340
1330
1320
1310
1300
1290
1280
1270
1260

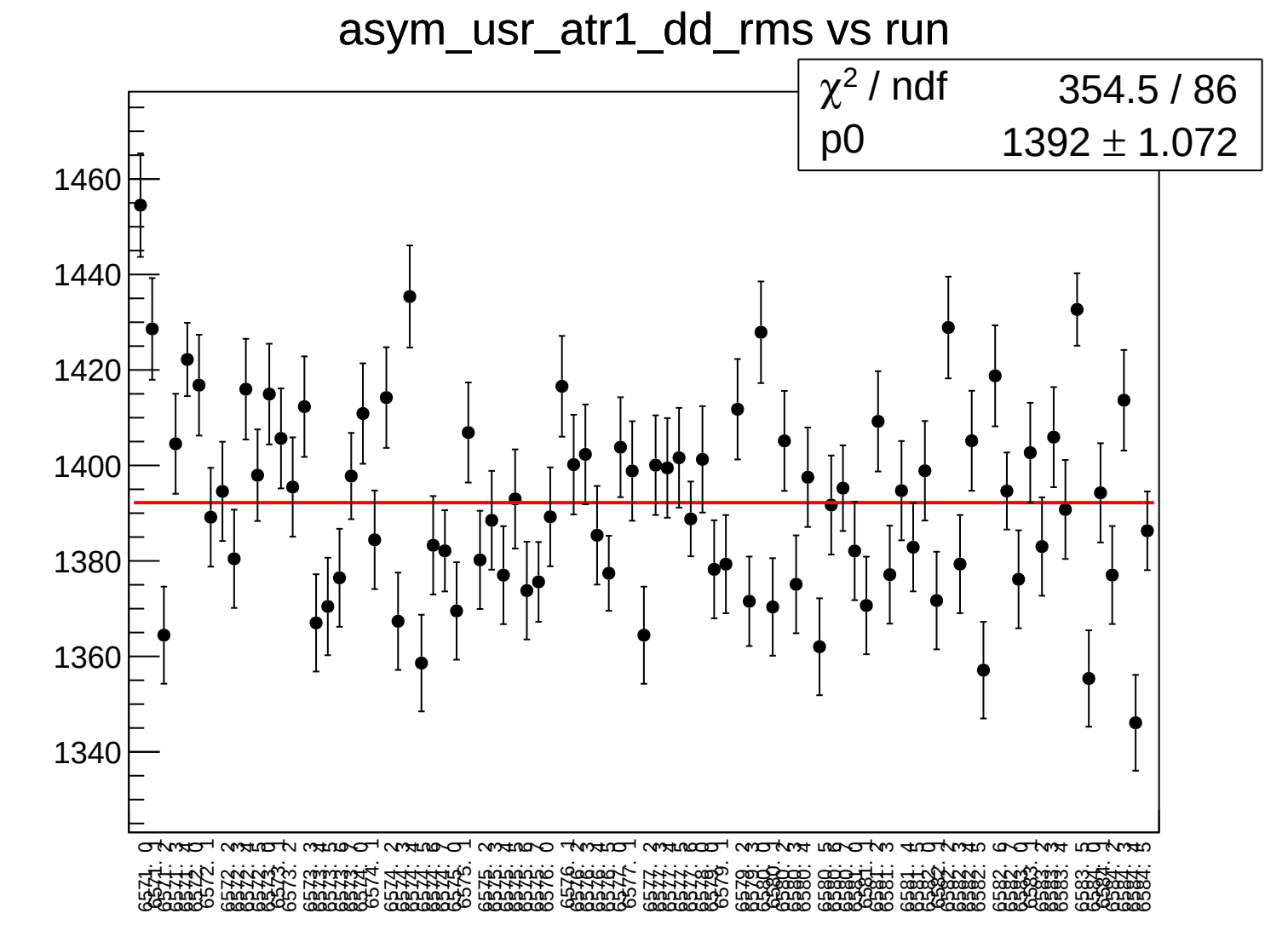

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.2 / 86
p0 1071 ± 522
pull
Entries 87
Mean 789.8
Std Dev 0

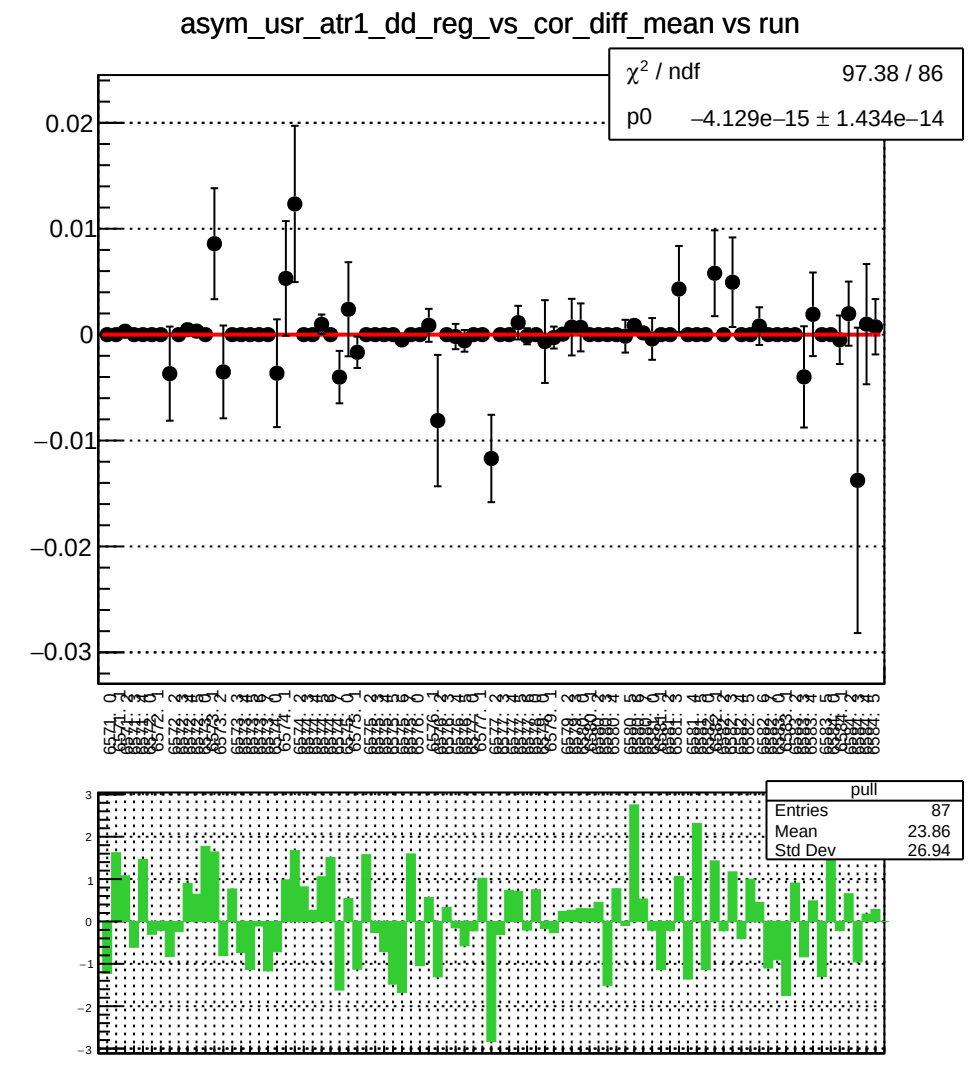

pull1D
Entries 87
Mean 0.004808
Std Dev 1.125

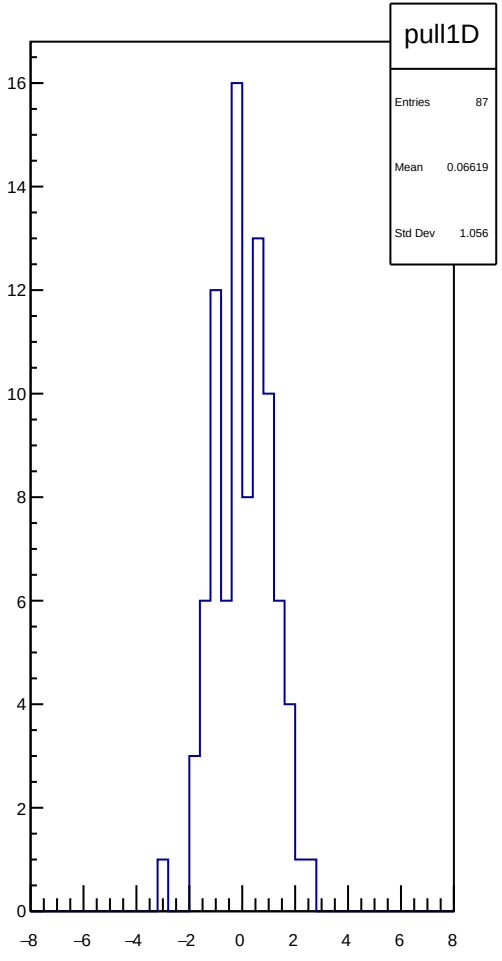

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.602e+04 / 86
p0 477.1 ± 0.3691
600
550
500
450
400

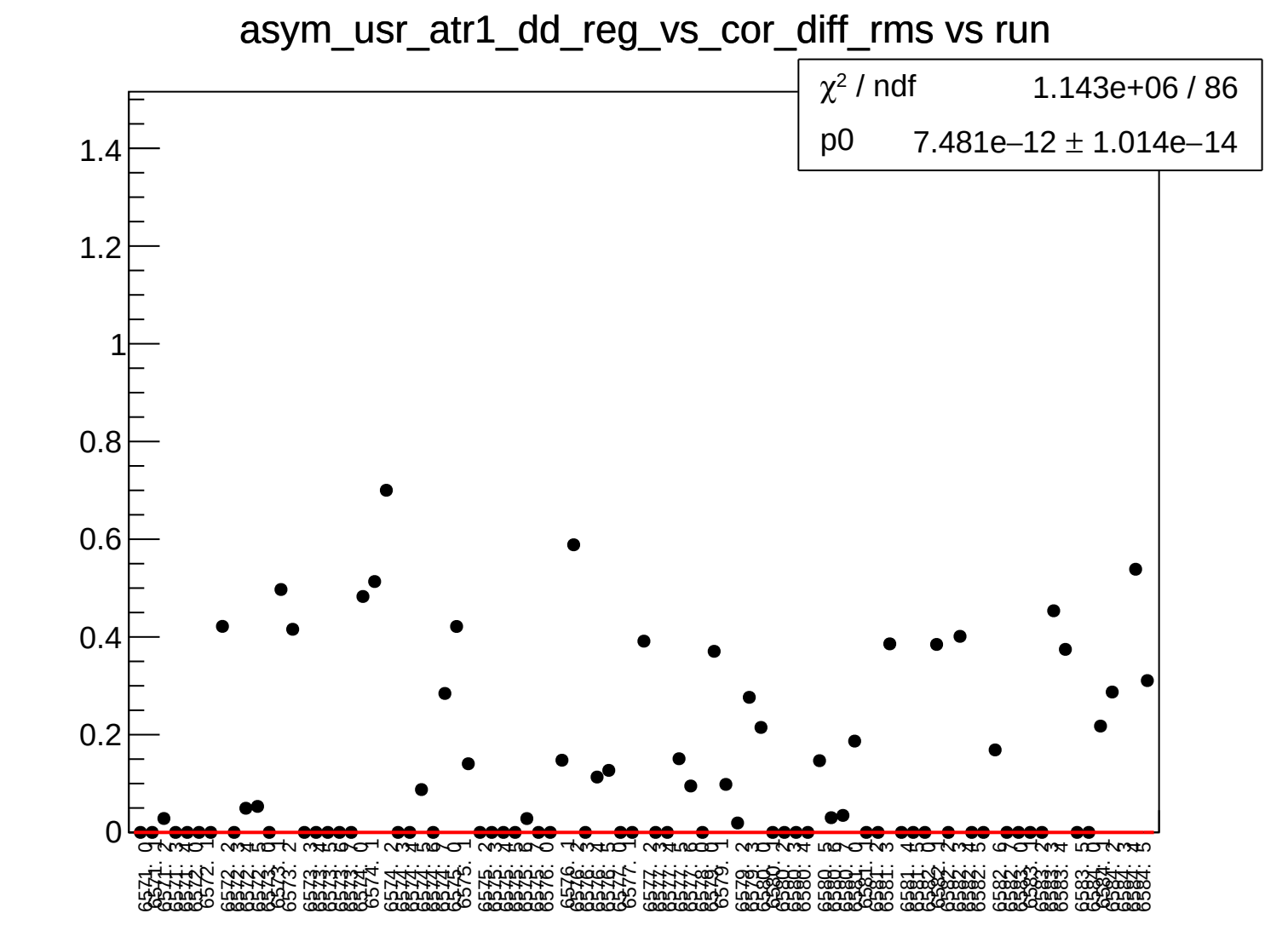

asym_usr_atr1_dd_mean vs run
χ² / ndf 84.81 / 86
p0 −1010 ± 1516
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 495.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

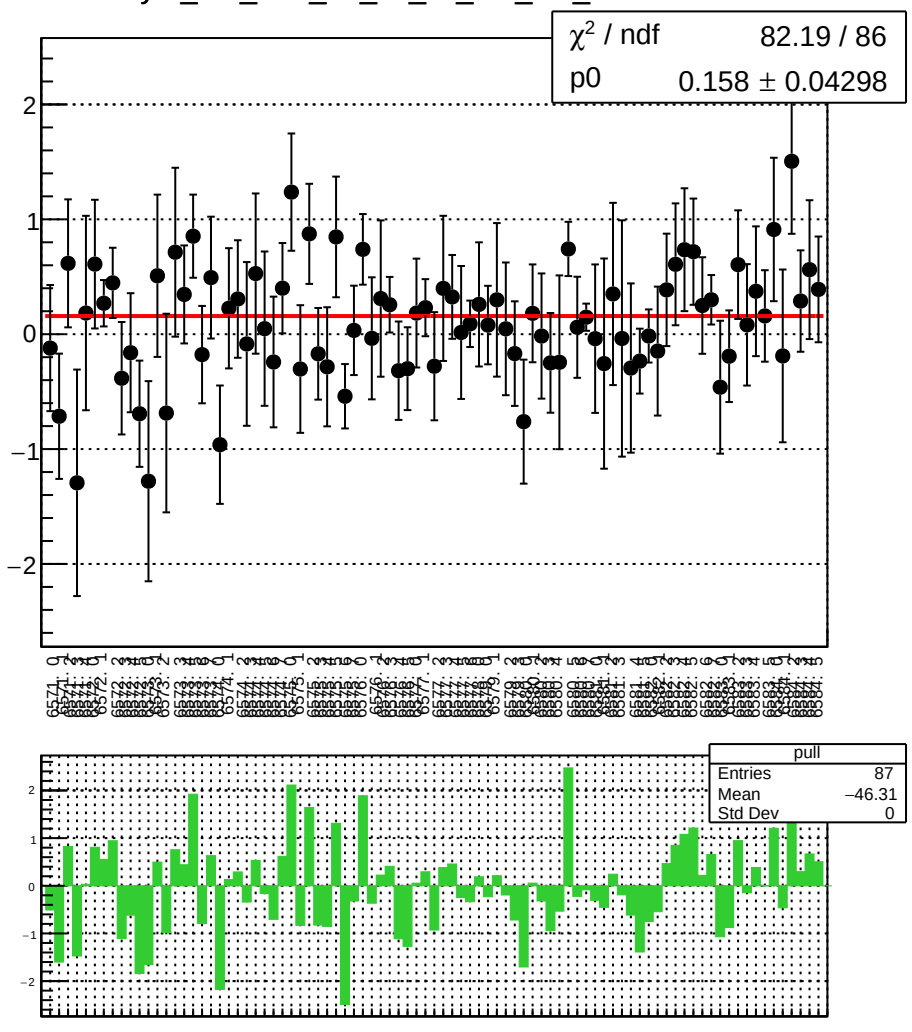

pull1D
Entries 87
Mean −0.005329
Std Dev 0.9873
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

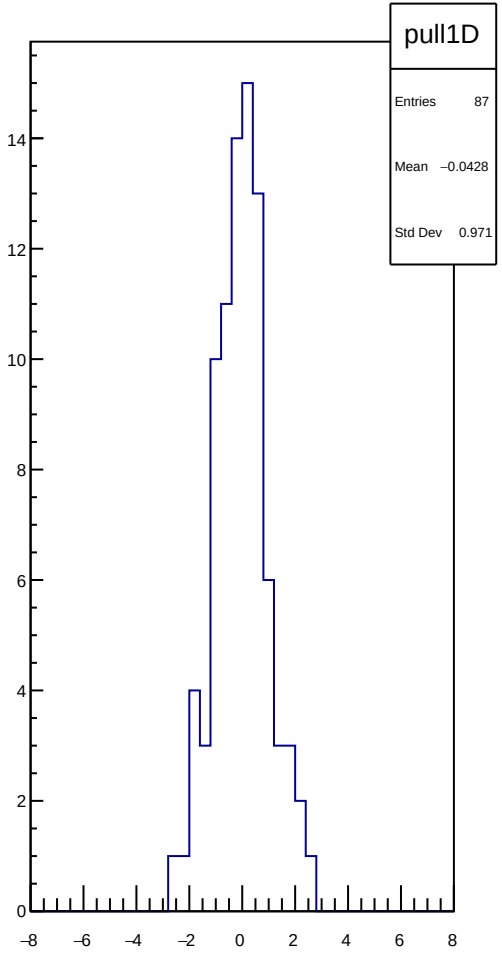

asym_usr_atr1_dd_rms vs run
χ² / ndf 354.5 / 86
p0 1392 ± 1.072
1460
1440
1420
1400
1380
1360
1340

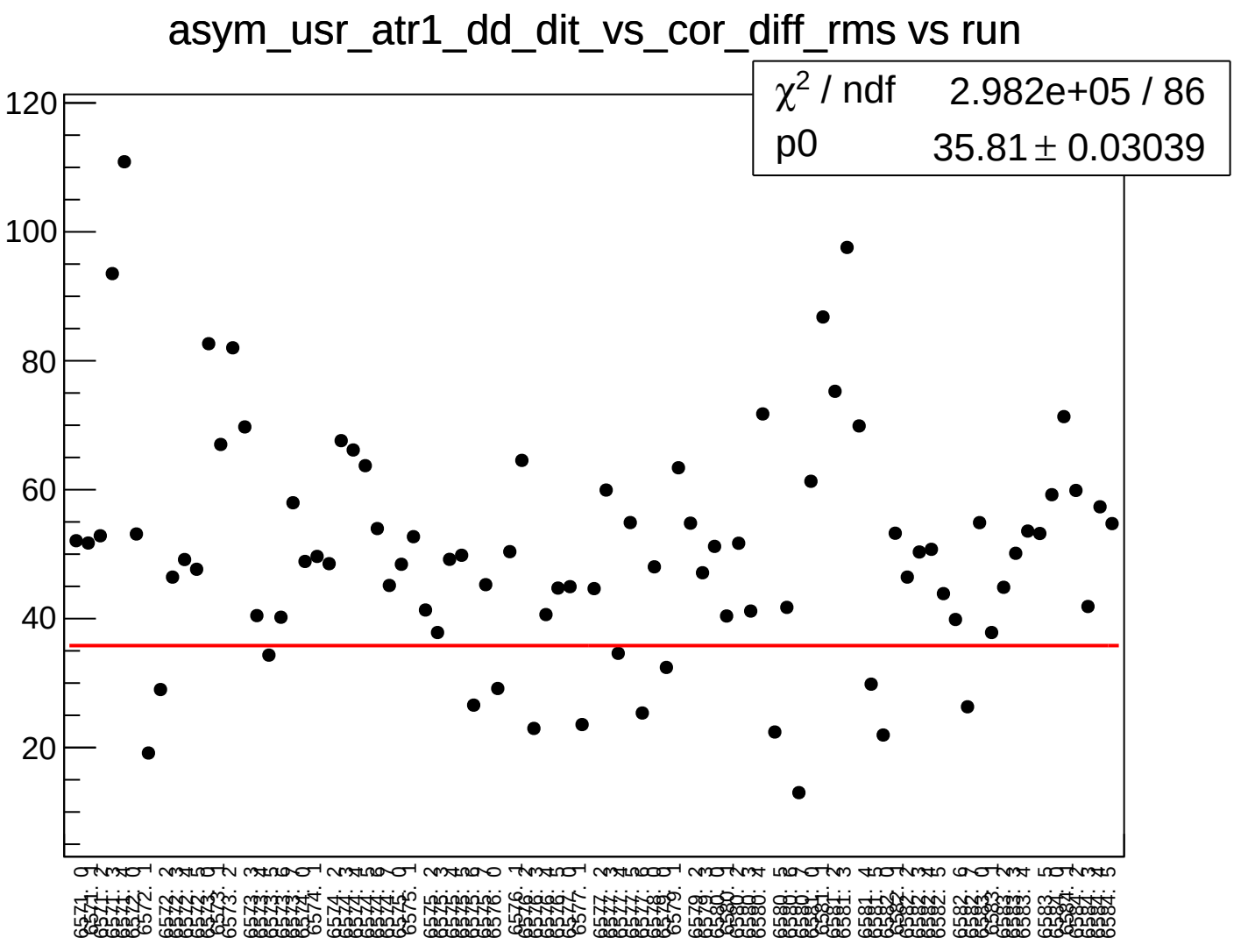

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.38 / 86
p0 −4.129e−15 ± 1.434e−14
pull
Entries 87
Mean 23.86
Std Dev 26.94

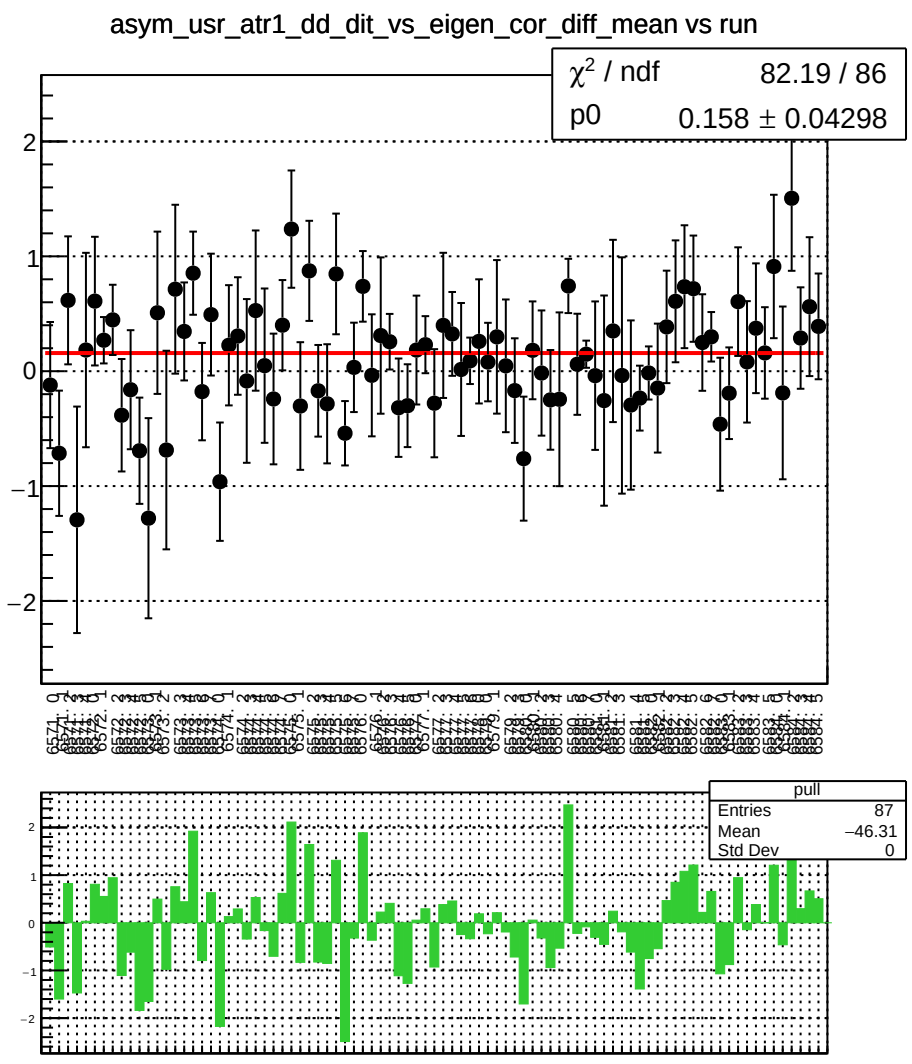

pull1D
Entries 87
Mean 0.06619
Std Dev 1.056

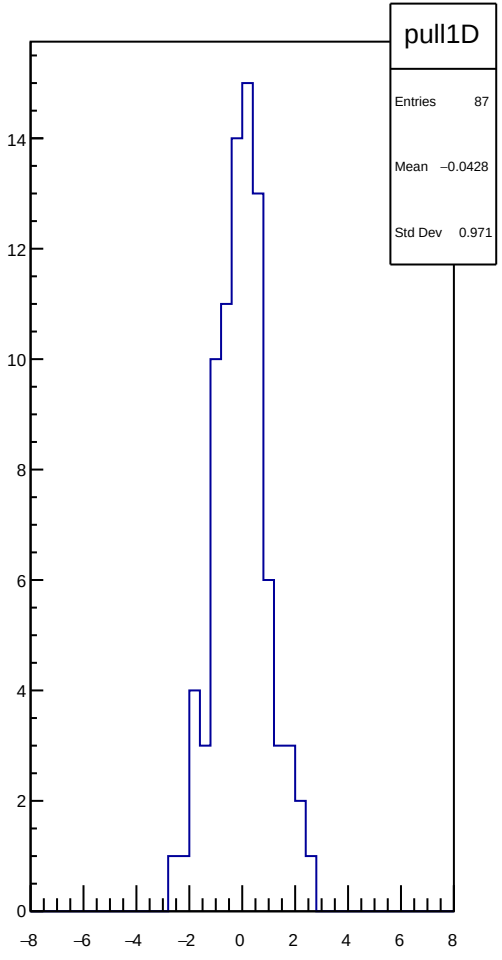

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.143e+06 / 86
p0 7.481e−12 ± 1.014e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

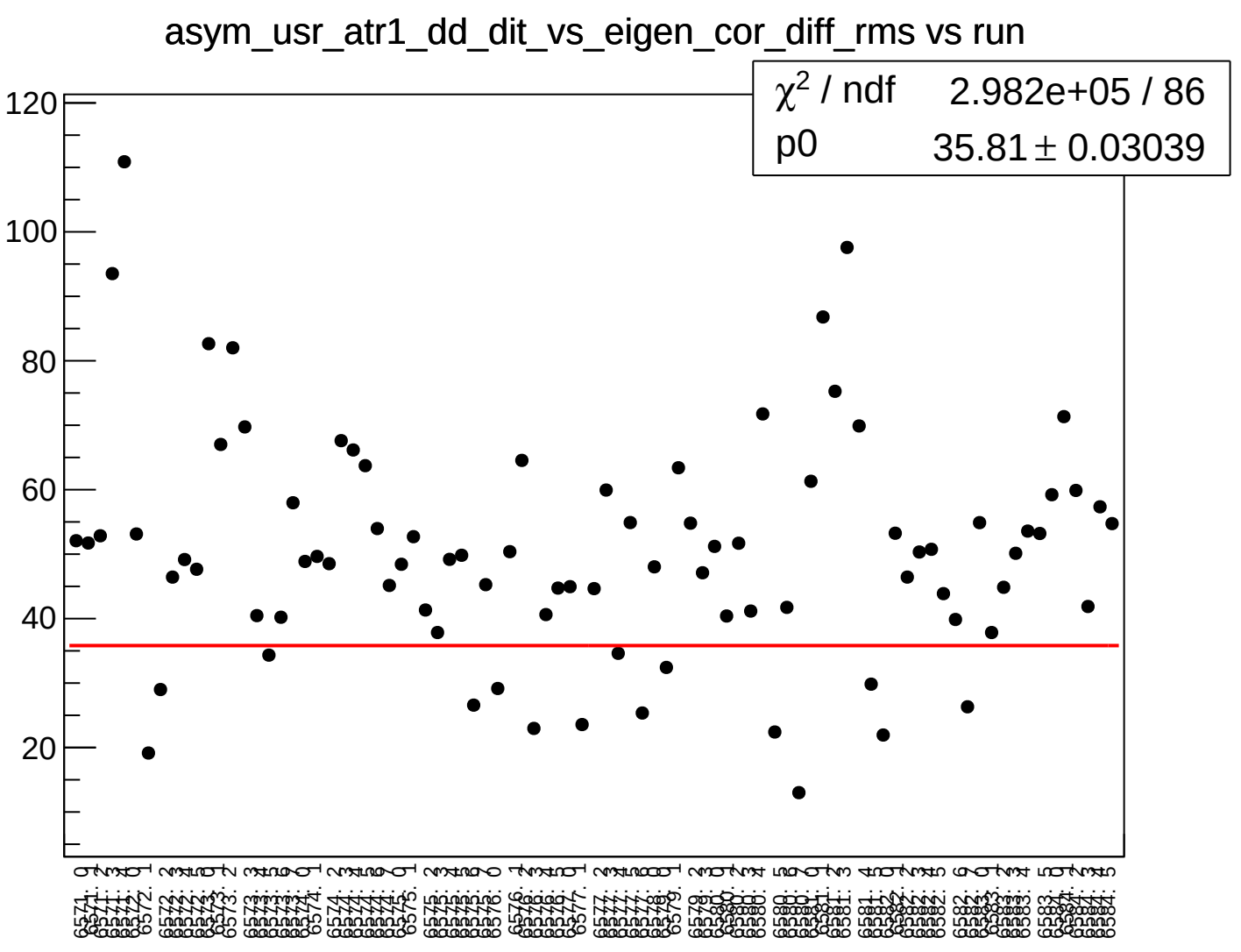

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.19 / 86
p0 0.158 ± 0.04298
pull
Entries 87
Mean −46.31
Std Dev 0

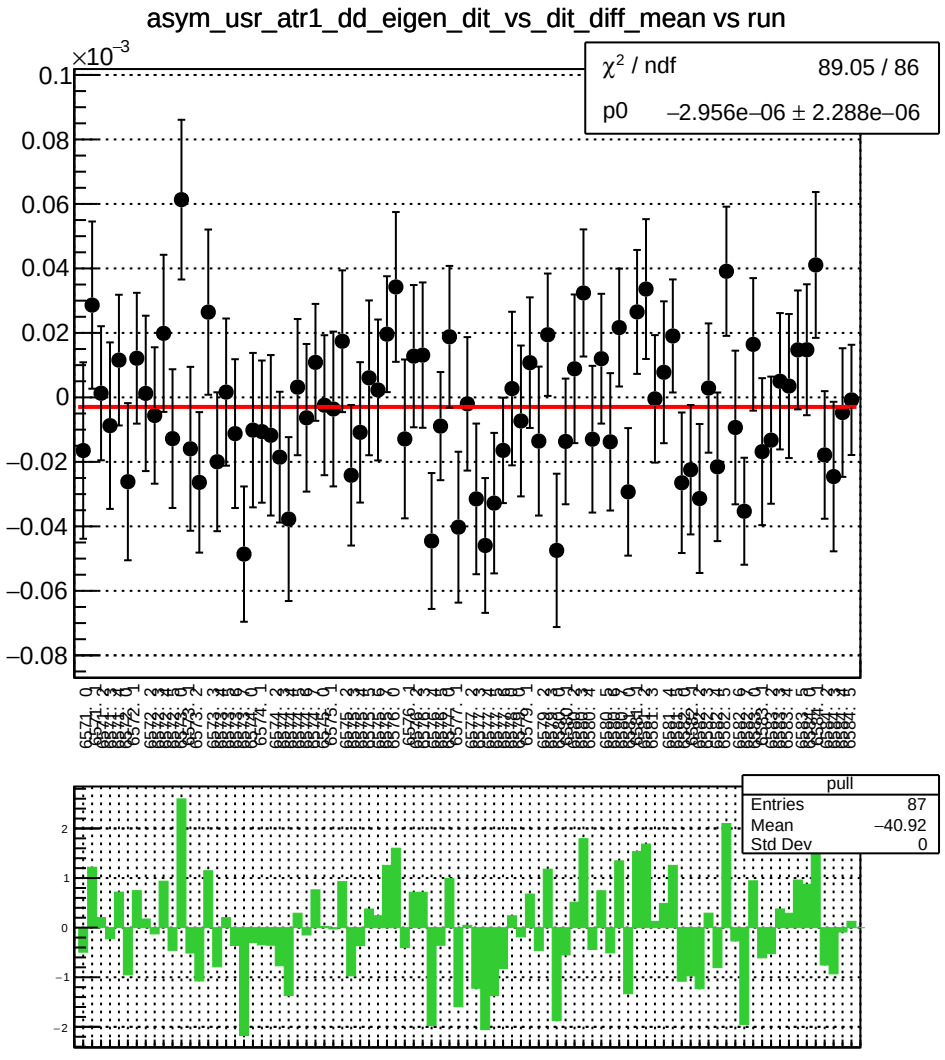

pull1D
Entries 87
Mean −0.0428
Std Dev 0.971

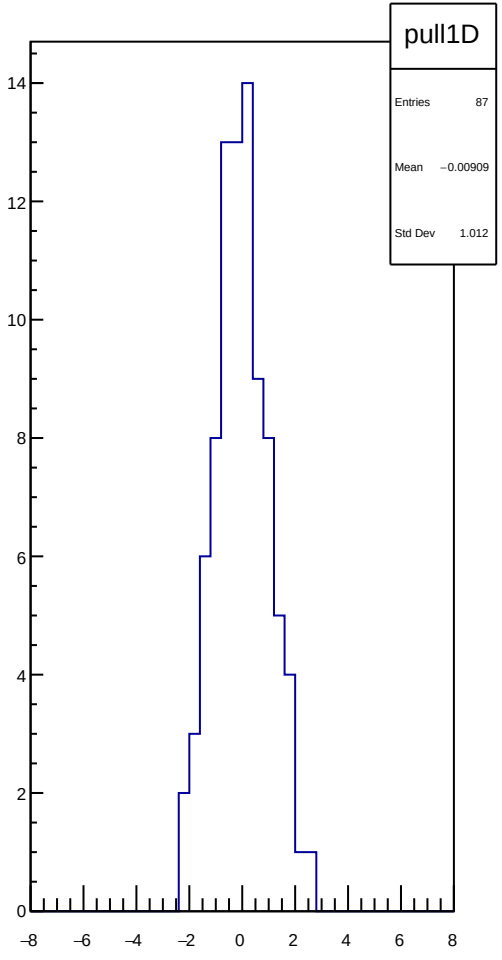

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.982e+05 / 86
p0 35.81 ± 0.03039
120
100
80
60
40
20

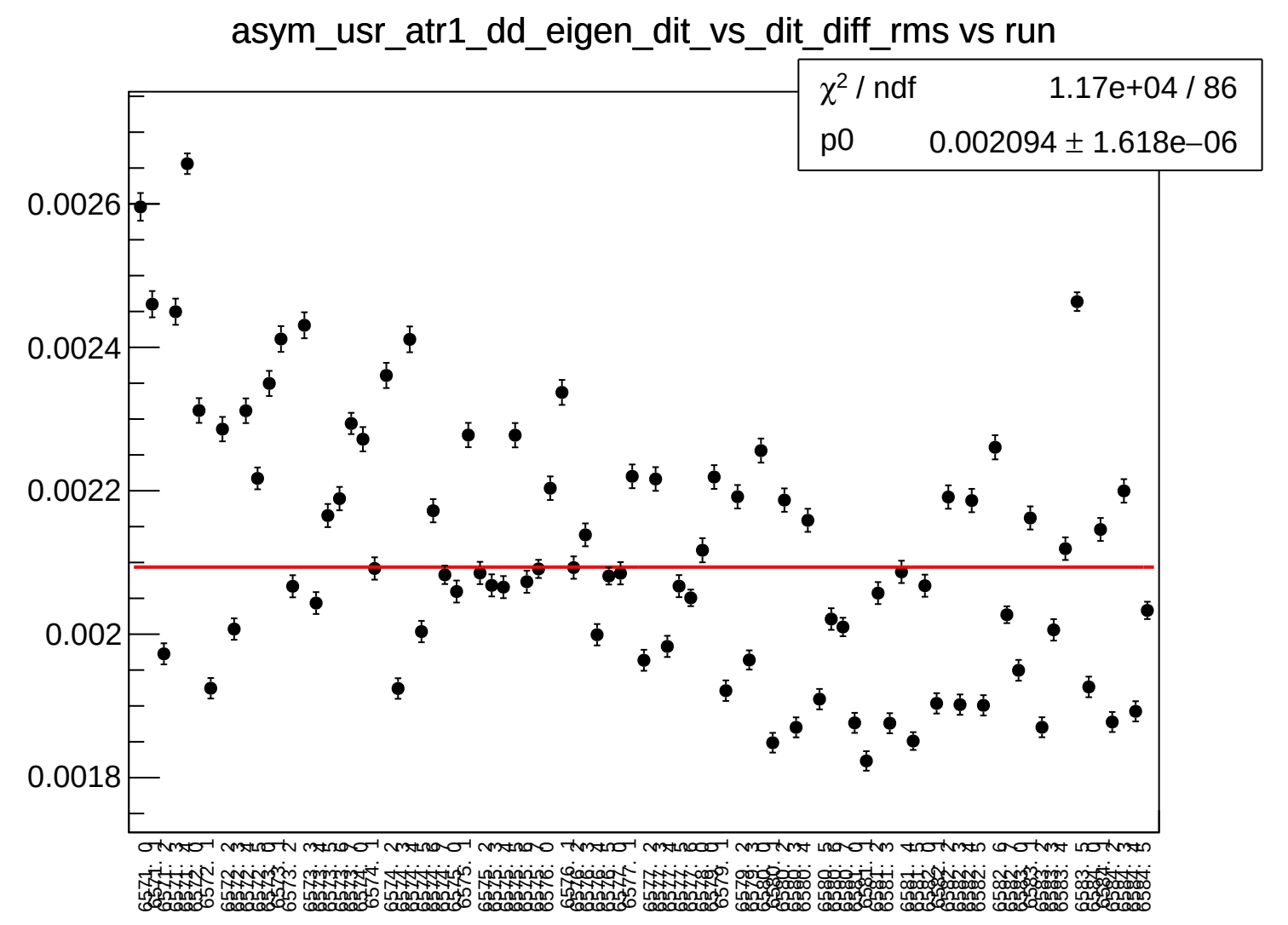

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.19 / 86
p0 0.158 ± 0.04298
pull
Entries 87
Mean −46.31
Std Dev 0

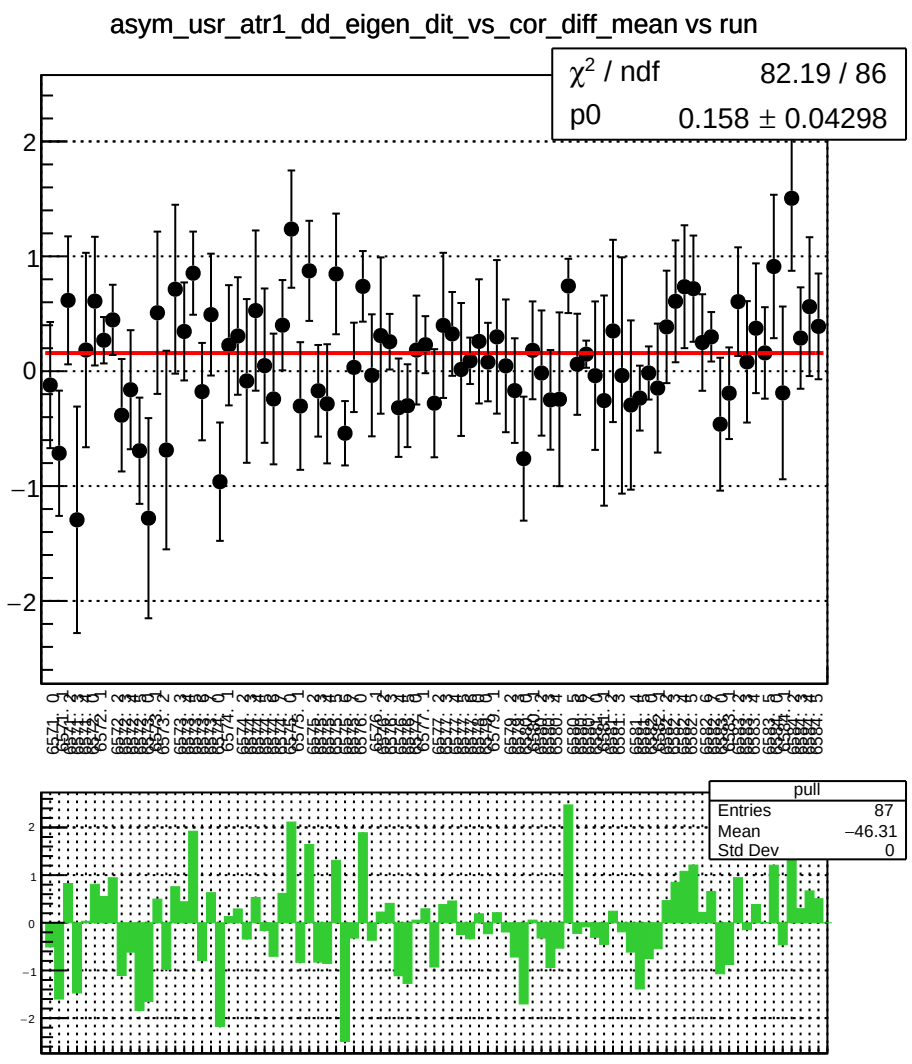

pull1D
Entries 87
Mean −0.0428
Std Dev 0.971

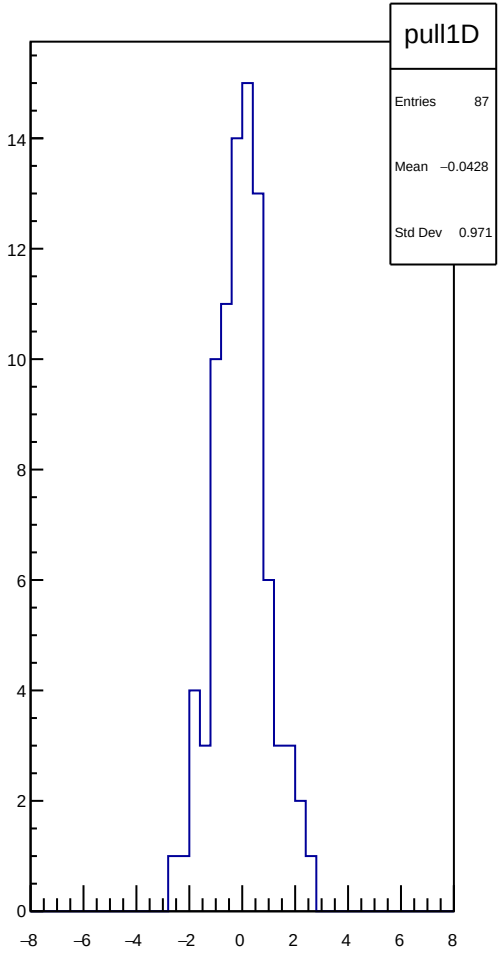

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.982e+05 / 86
p0 35.81 ± 0.03039
120
100
80
60
40
20

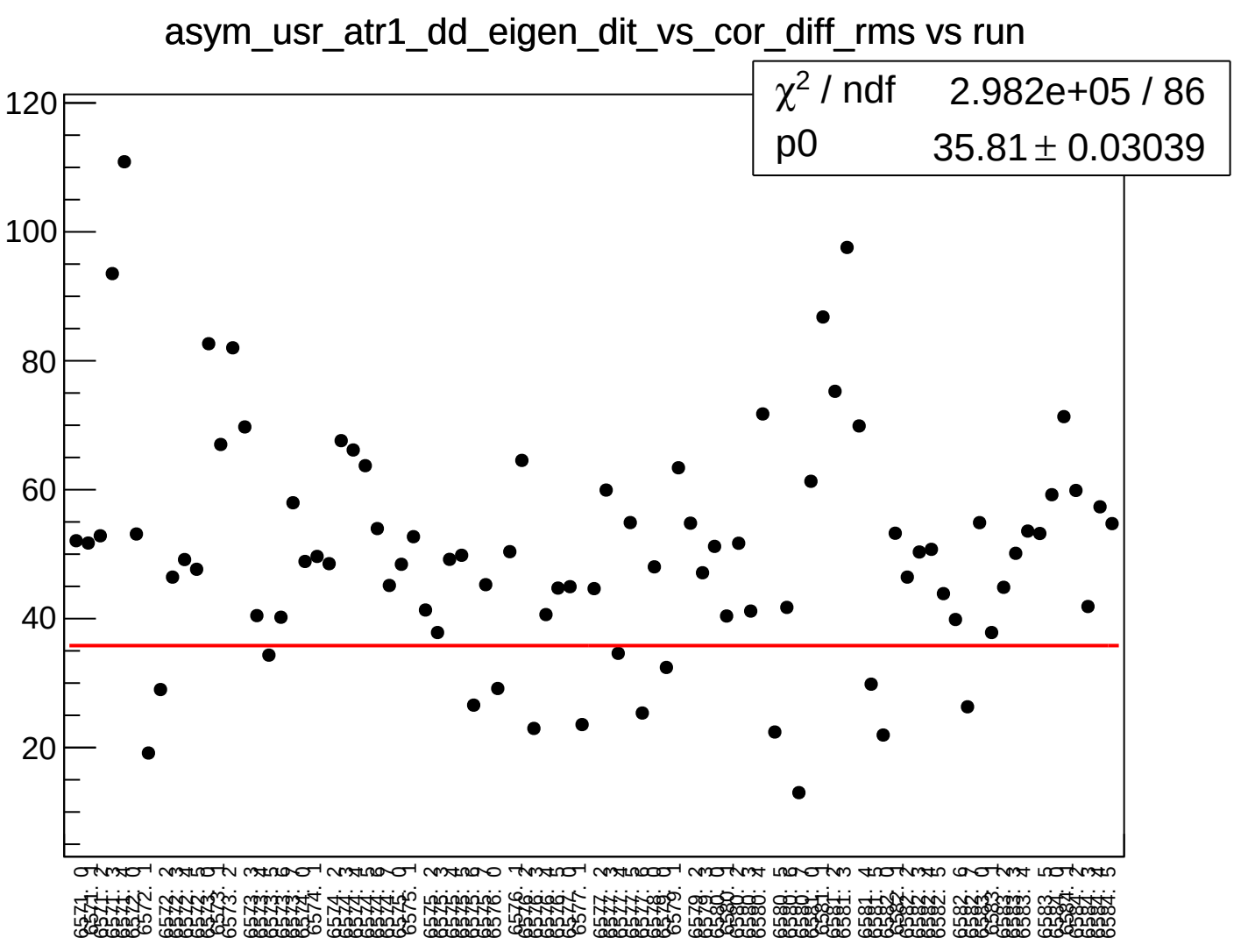

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.05 / 86
p0 −2.956e−06 ± 2.288e−06
pull
Entries 87
Mean −40.92
Std Dev 0

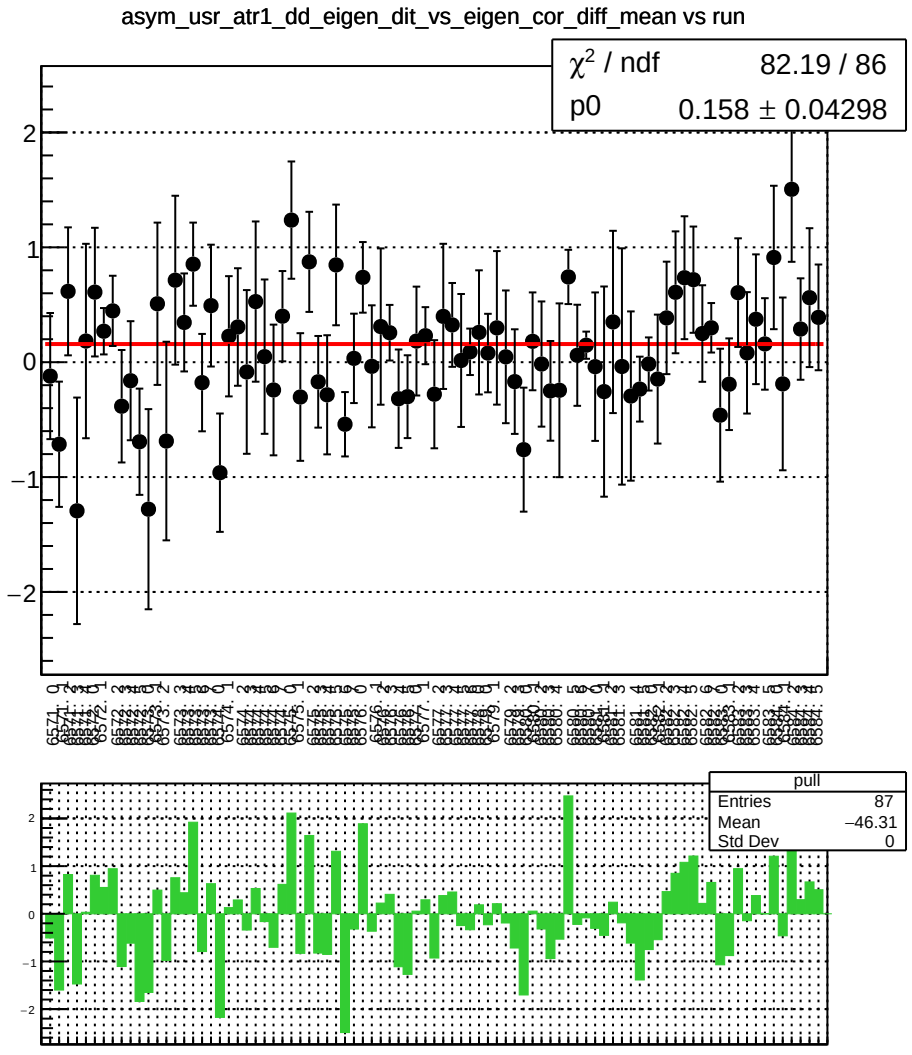

pull1D
Entries 87
Mean −0.00909
Std Dev 1.012

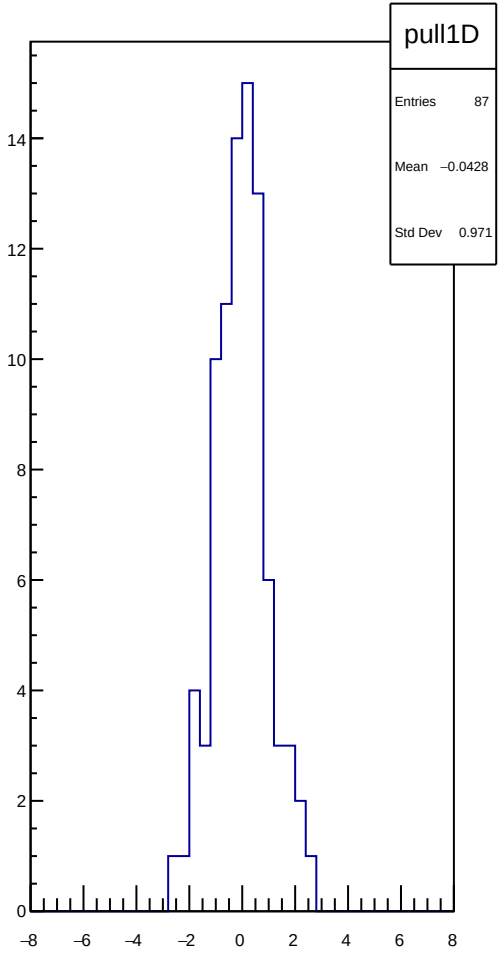

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.17e+04 / 86
p0 0.002094 ± 1.618e−06
0.0026
0.0024
0.0022
0.002
0.0018

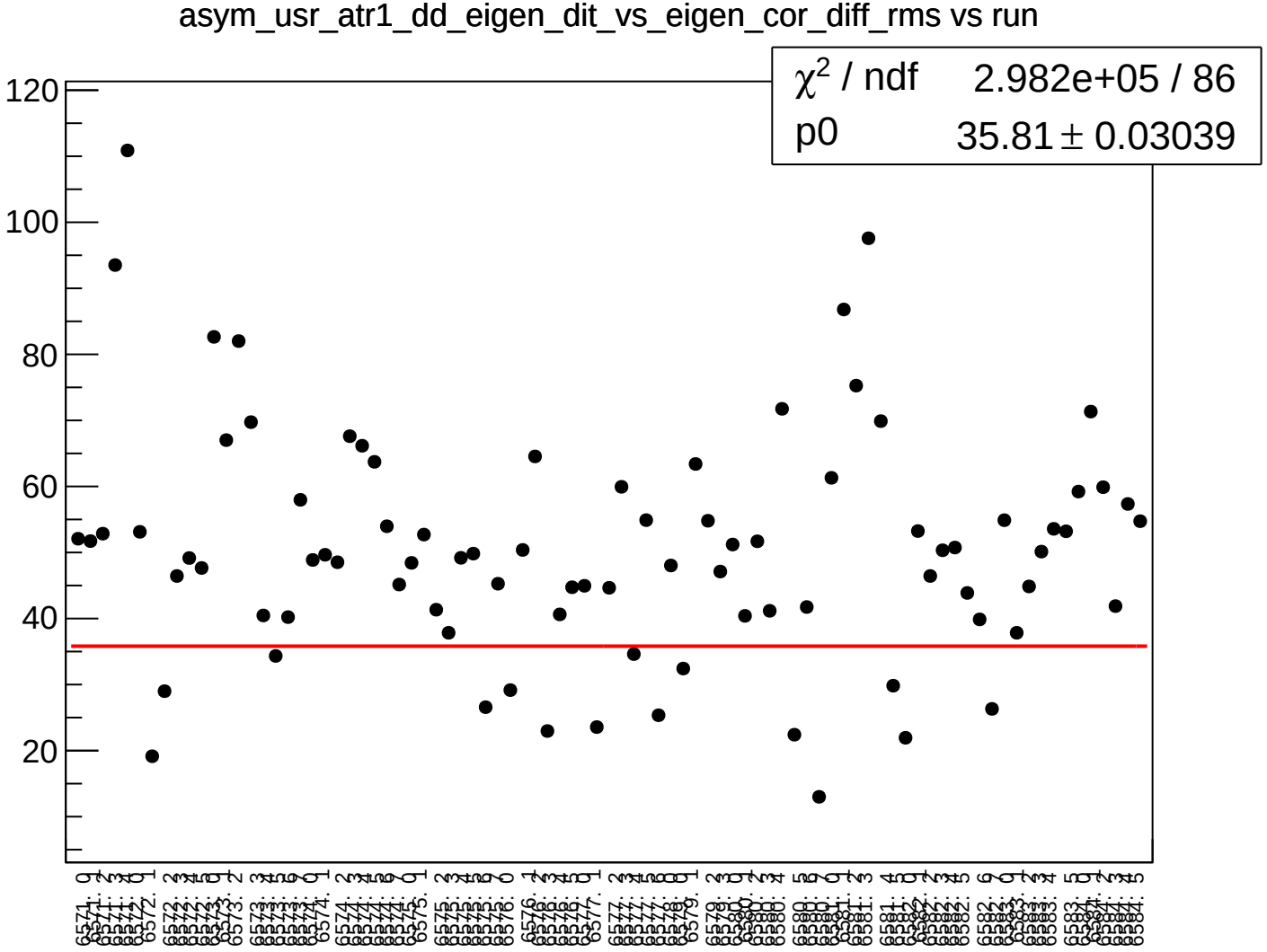

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.19 / 86
p0 0.158 ± 0.04298
pull
Entries 87
Mean −46.31
Std Dev 0

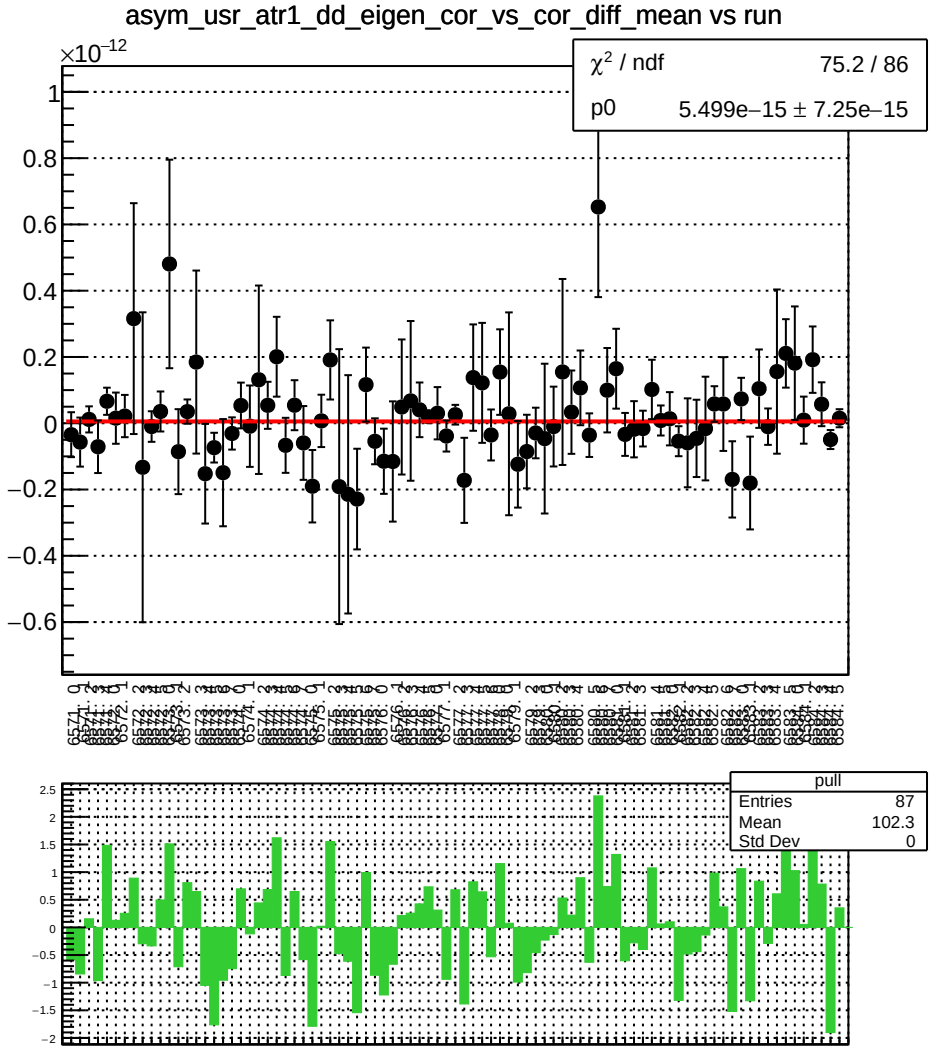

pull1D
Entries 87
Mean −0.0428
Std Dev 0.971

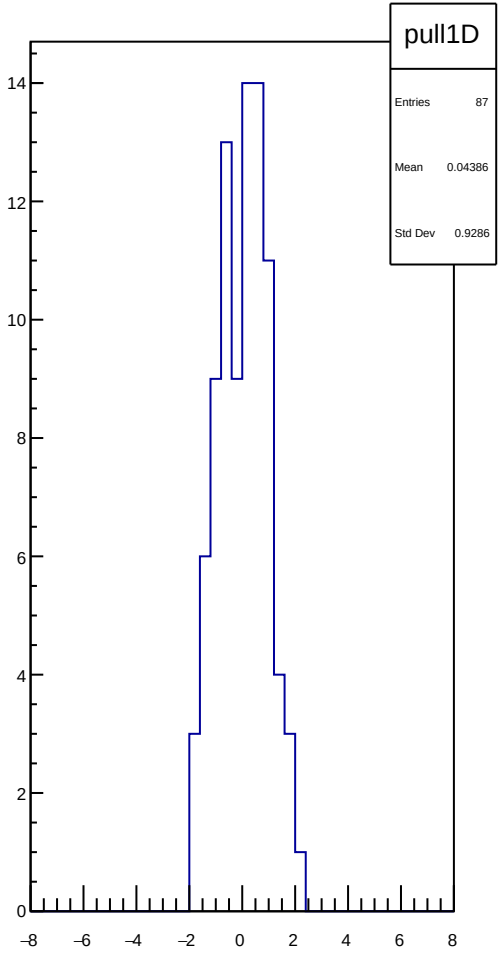

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.982e+05 / 86
p0 35.81 ± 0.03039
120
100
80
60
40
20

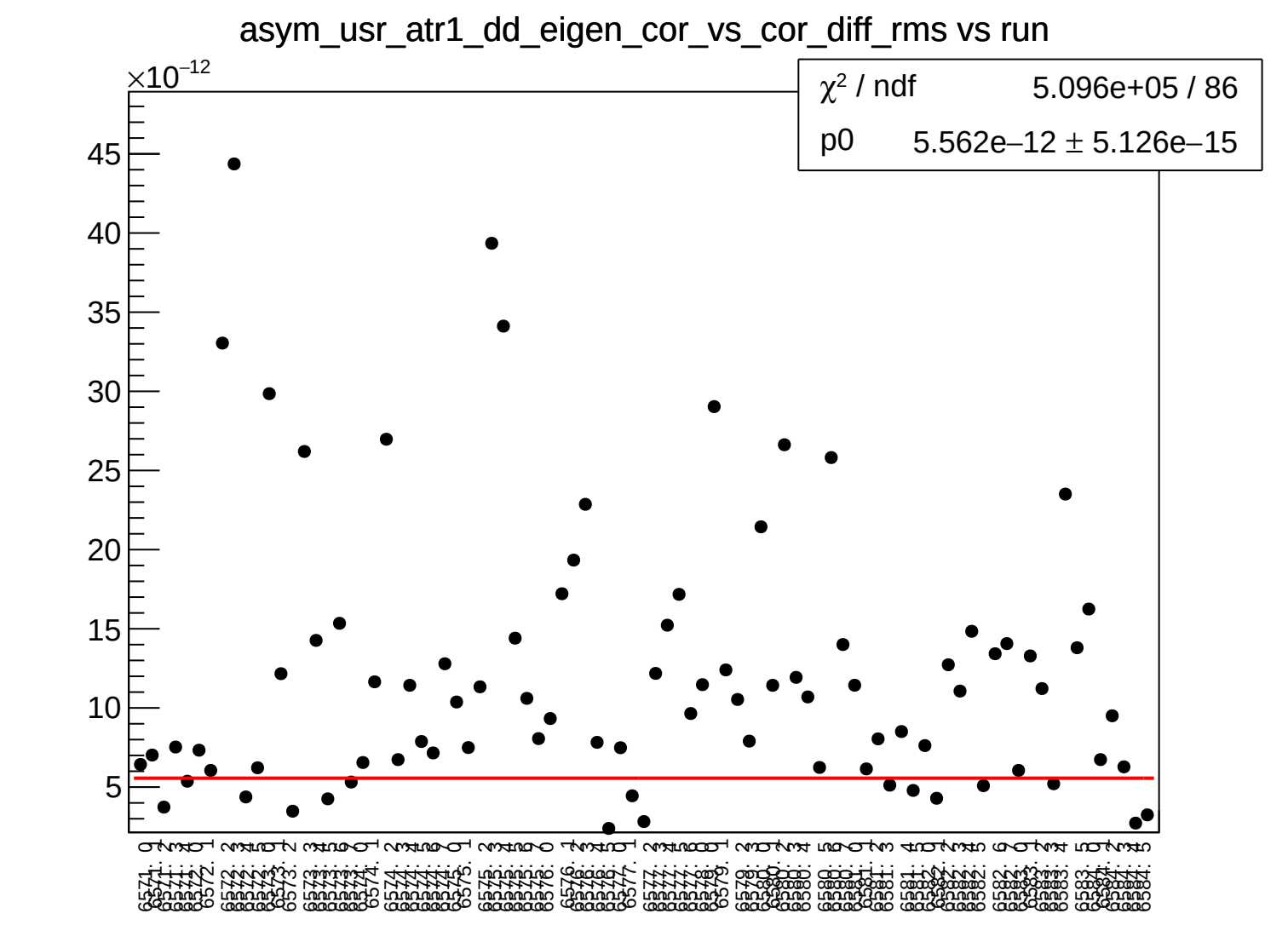

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.19 / 86
p0 0.158 ± 0.04298
pull
Entries 87
Mean −46.31
Std Dev 0

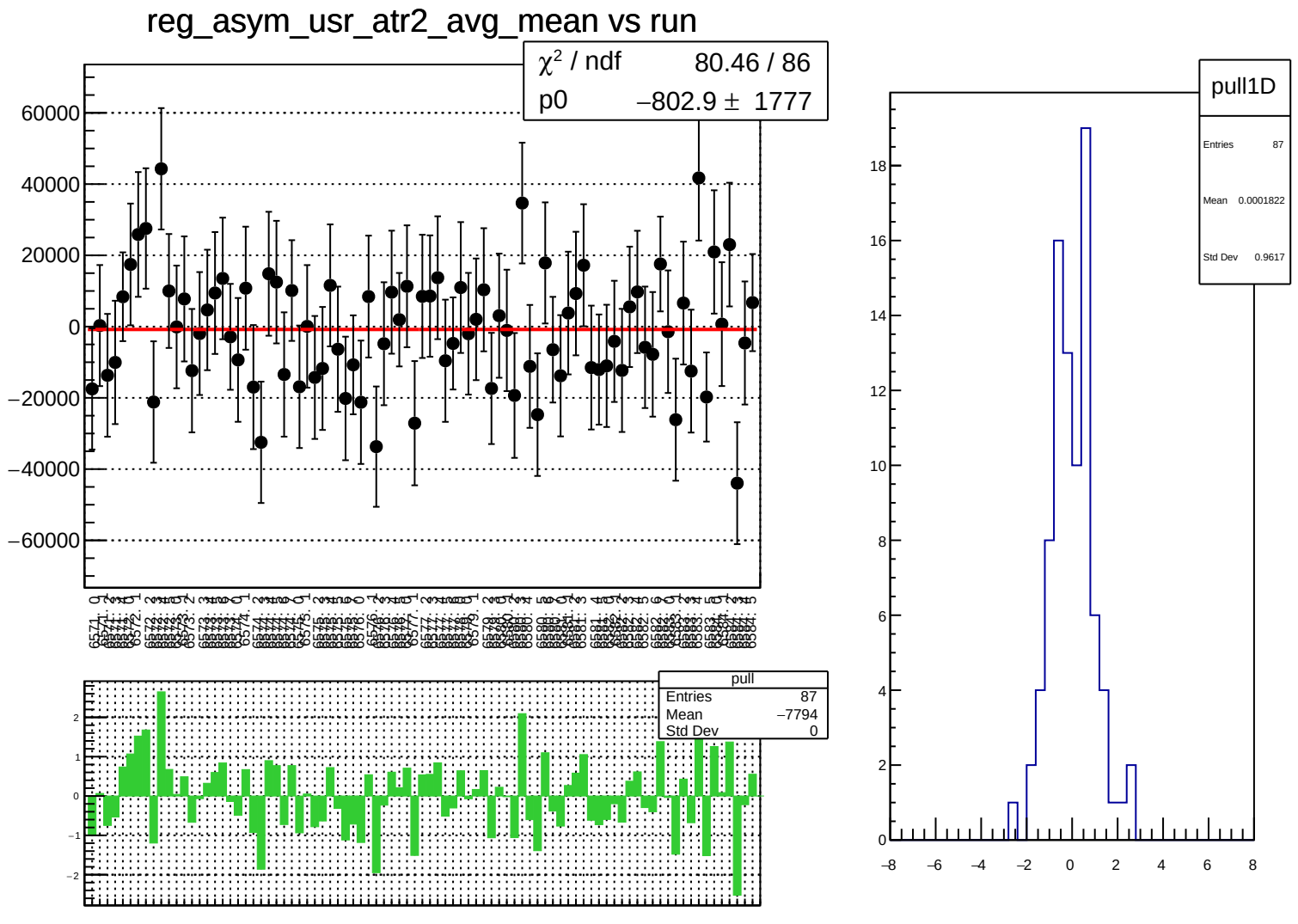

pull1D
Entries 87
Mean −0.0428
Std Dev 0.971

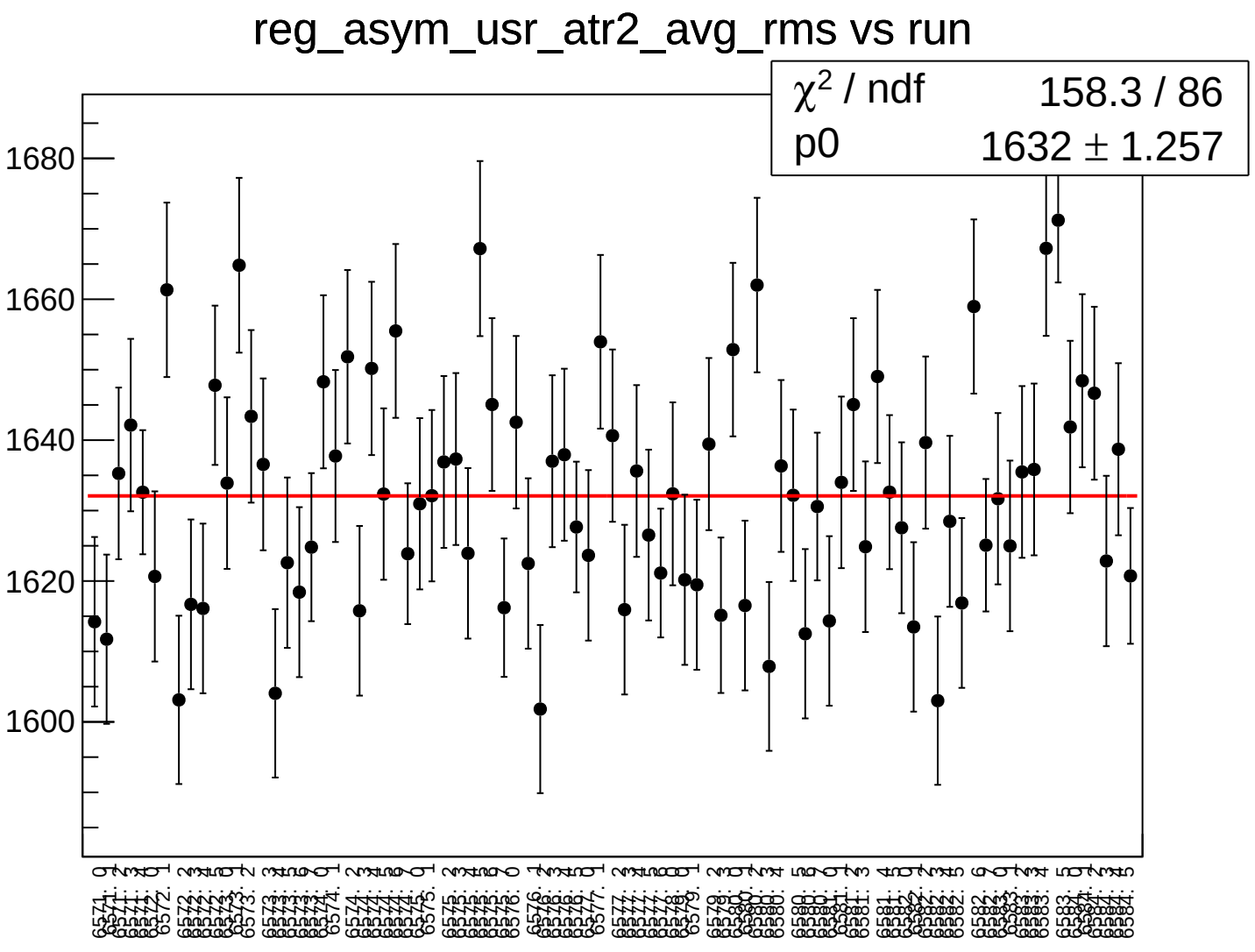

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.982e+05 / 86
p0 35.81 ± 0.03039
120
100
80
60
40
20

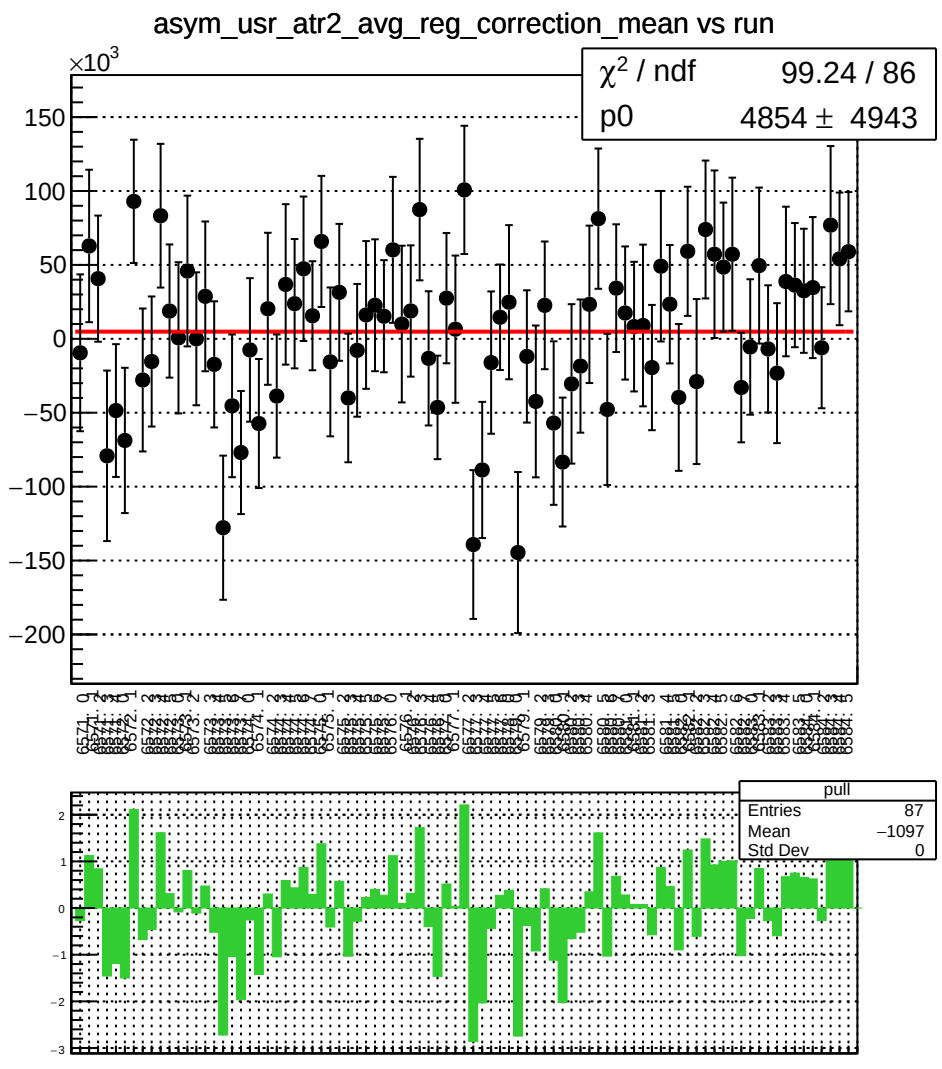

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.2 / 86
p0 5.499e−15 ± 7.25e−15
pull
Entries 87
Mean 102.3
Std Dev 0

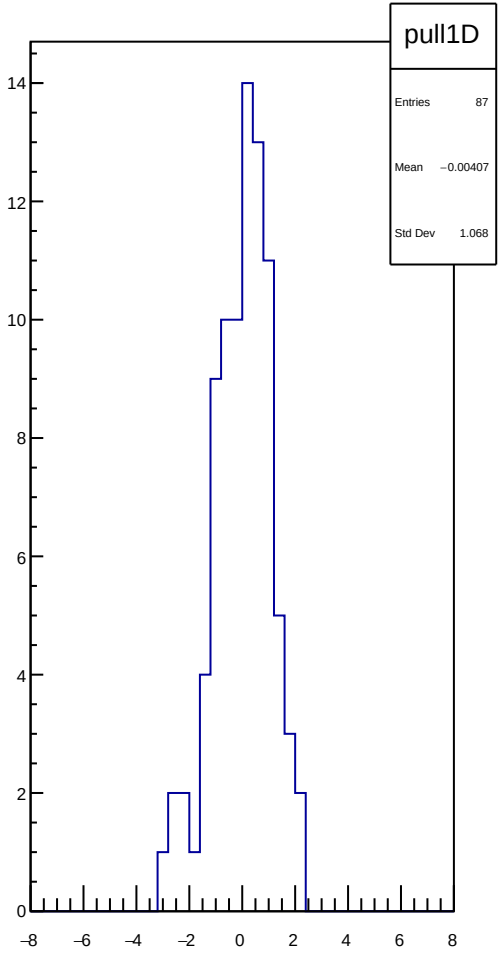

pull1D
Entries 87
Mean 0.04386
Std Dev 0.9286

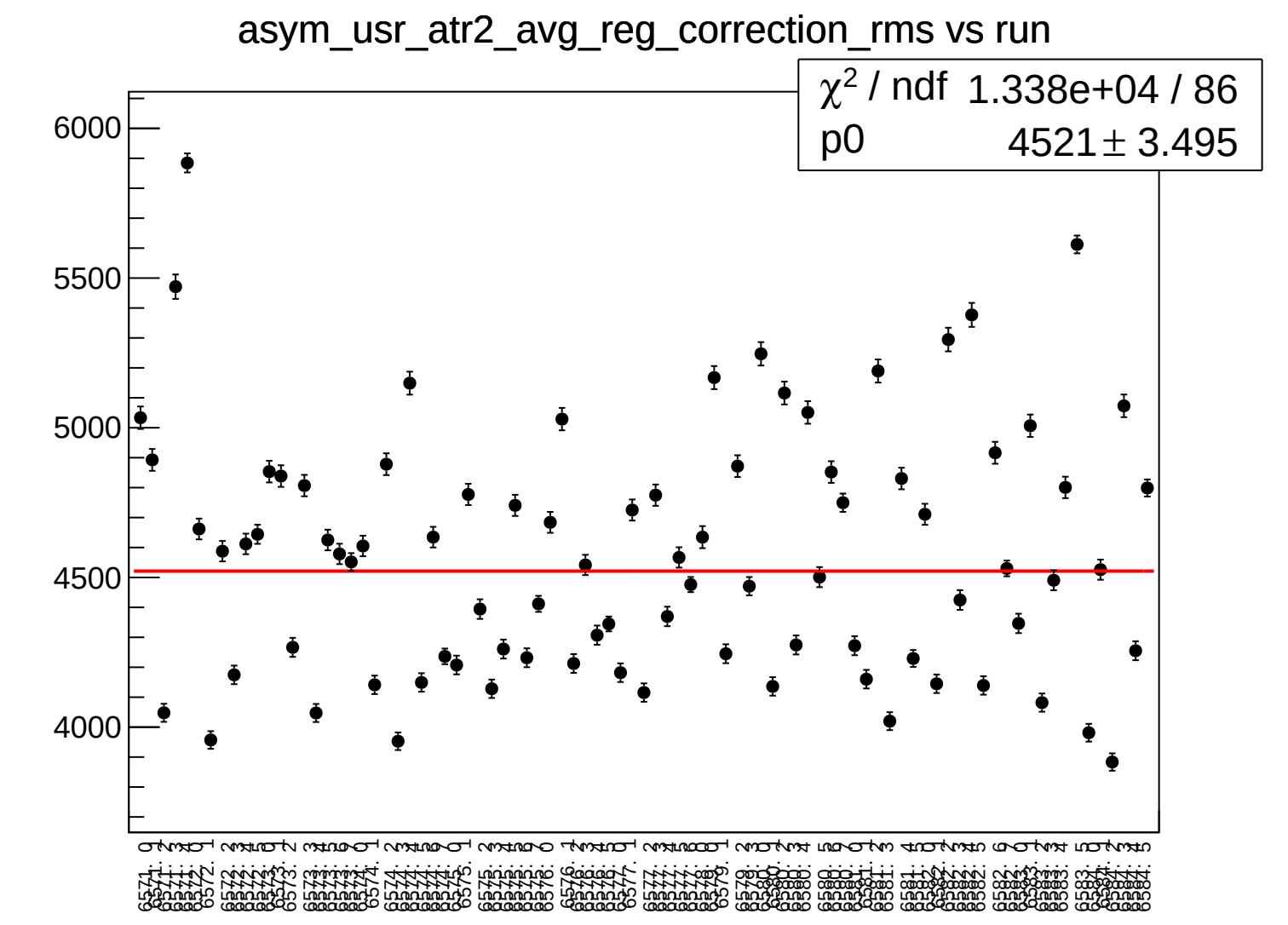

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.096e+05 / 86
p0 5.562e−12 ± 5.126e−15
45
40
35
30
25
20
15
10
5

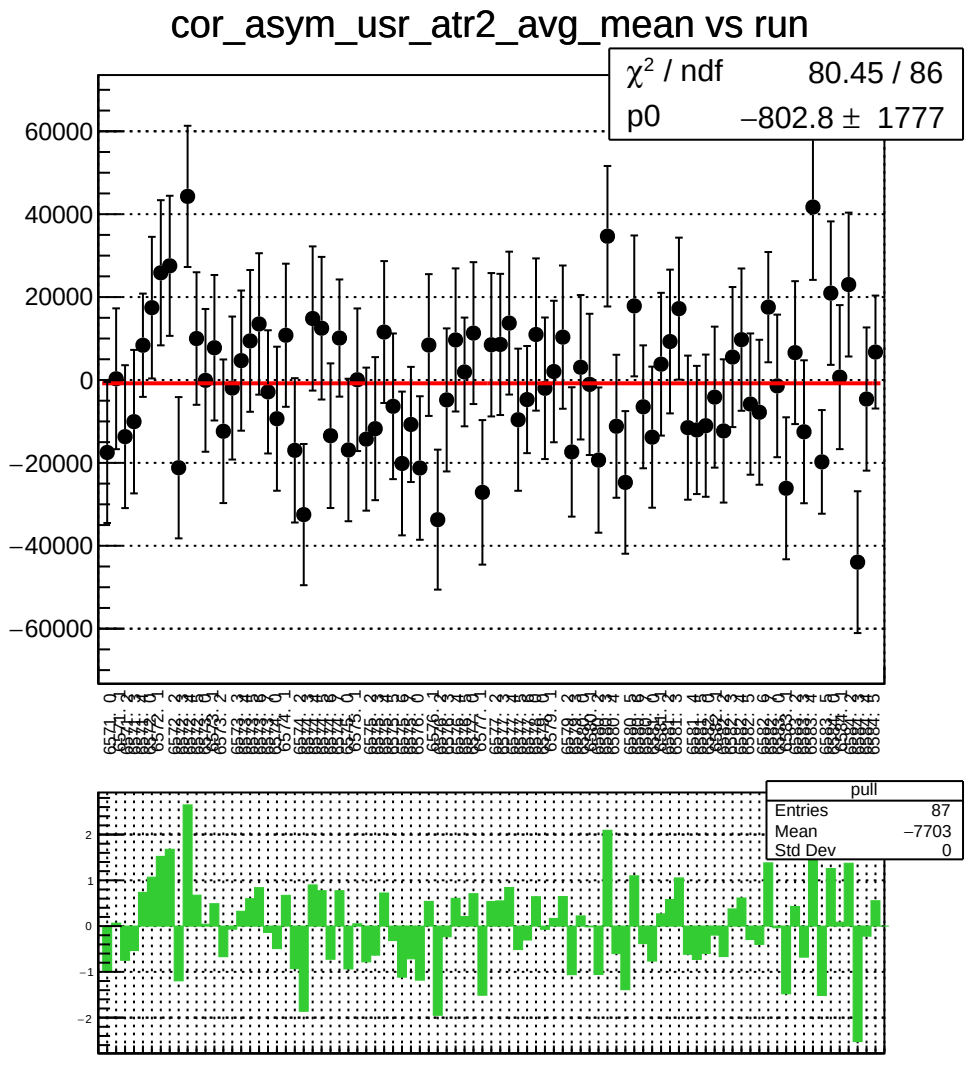

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.46 / 86
p0 −802.9 ± 1777
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −7794
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.0001822
Std Dev 0.9617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

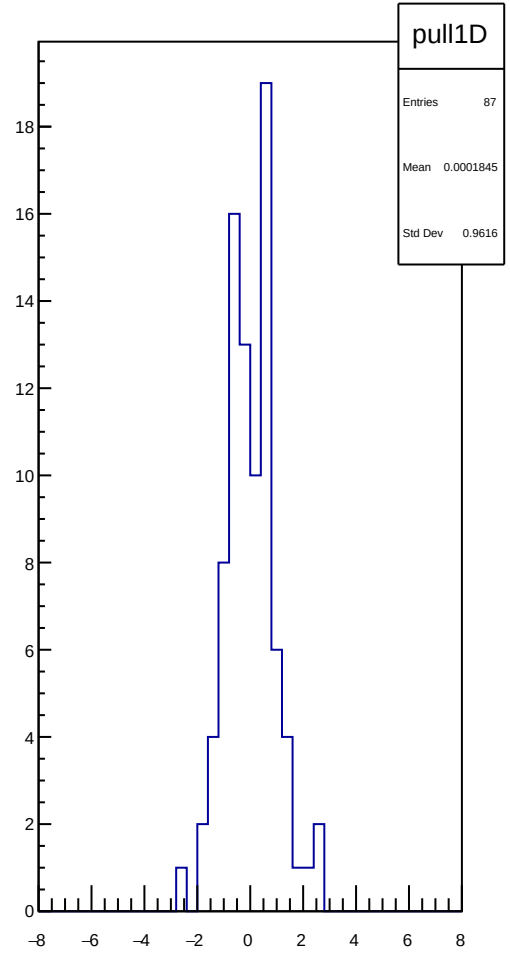

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 158.3 / 86
p0 1632 ± 1.257
1680
1660
1640
1620
1600

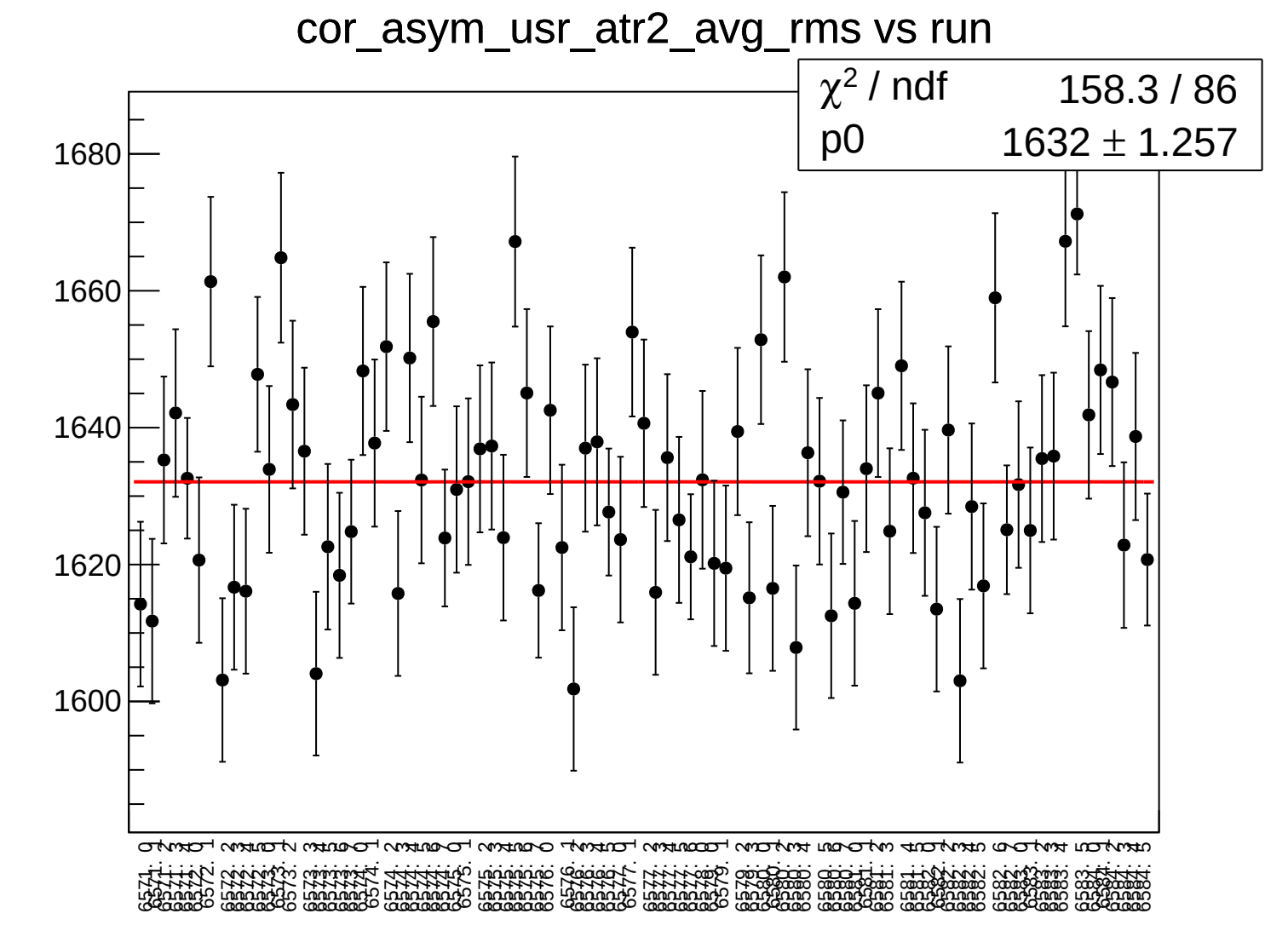

asym_usr_atr2_avg_reg_correction_mean vs run
χ² / ndf 99.24 / 86
p0 4854 ± 4943
pull
Entries 87
Mean −1097
Std Dev 0

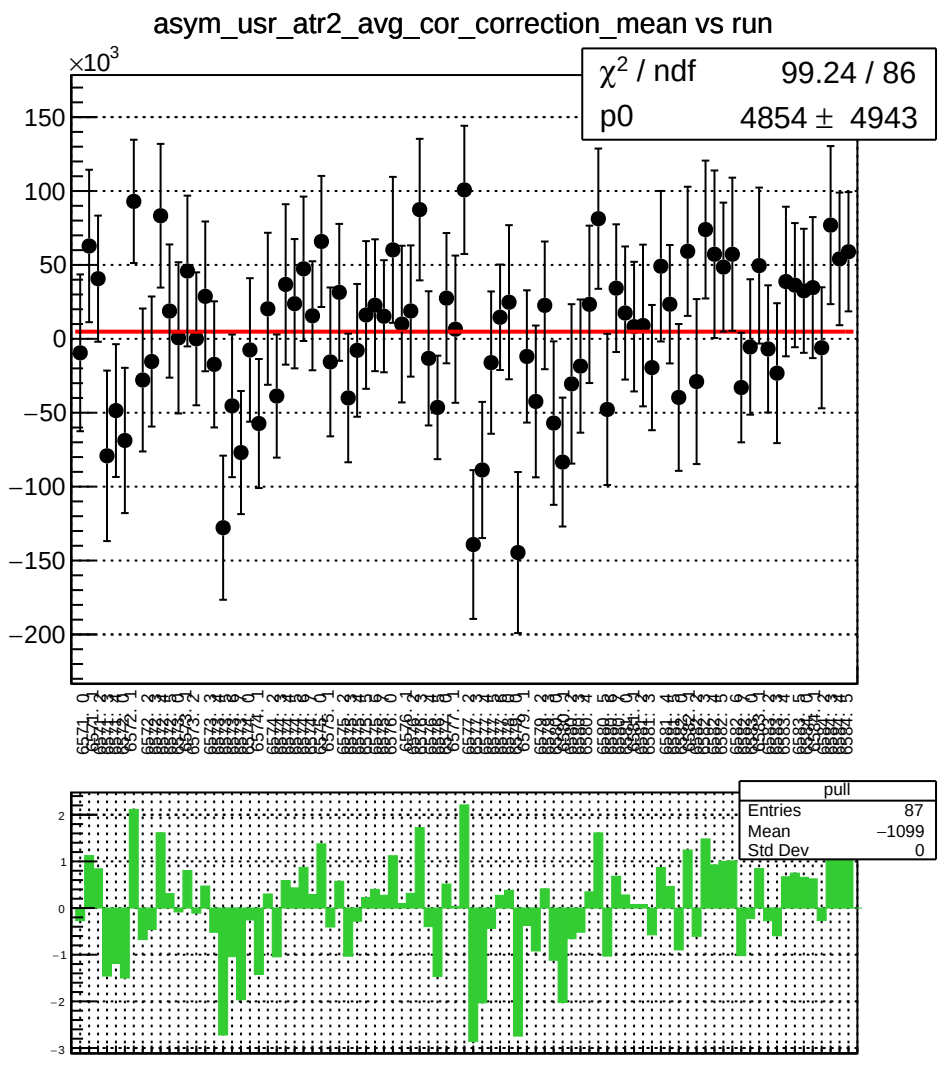

pull1D
Entries 87
Mean −0.00407
Std Dev 1.068

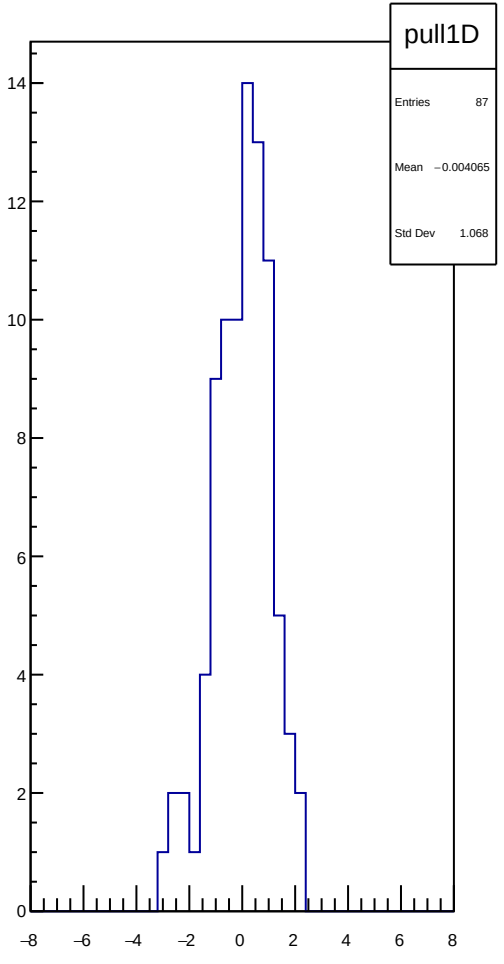

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.338e+04 / 86
p0 4521 ± 3.495
6000
5500
5000
4500
4000

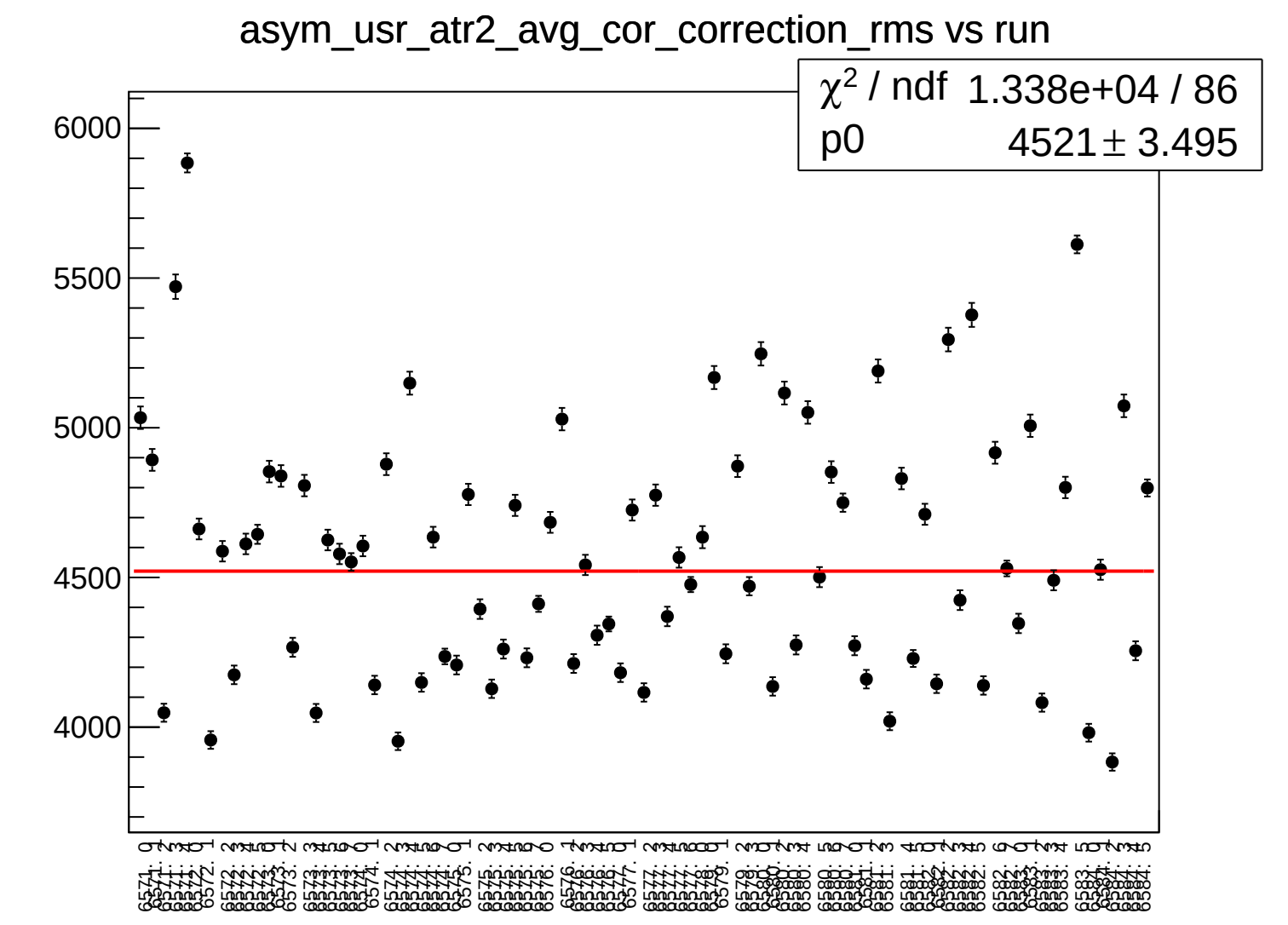

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.45 / 86
p0 −802.8 ± 1777
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −7703
Std Dev 0
2
1
0
−1
−2

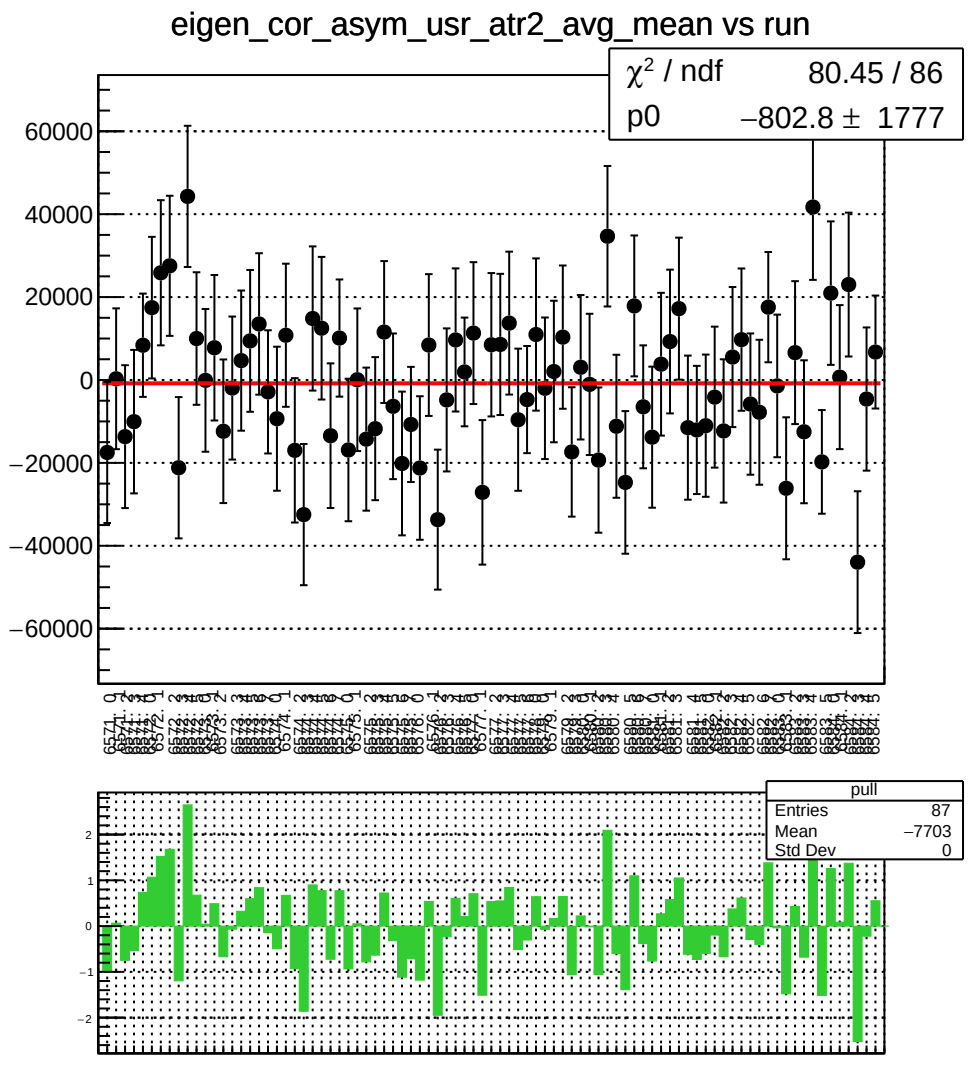

pull1D
Entries 87
Mean 0.0001845
Std Dev 0.9616
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

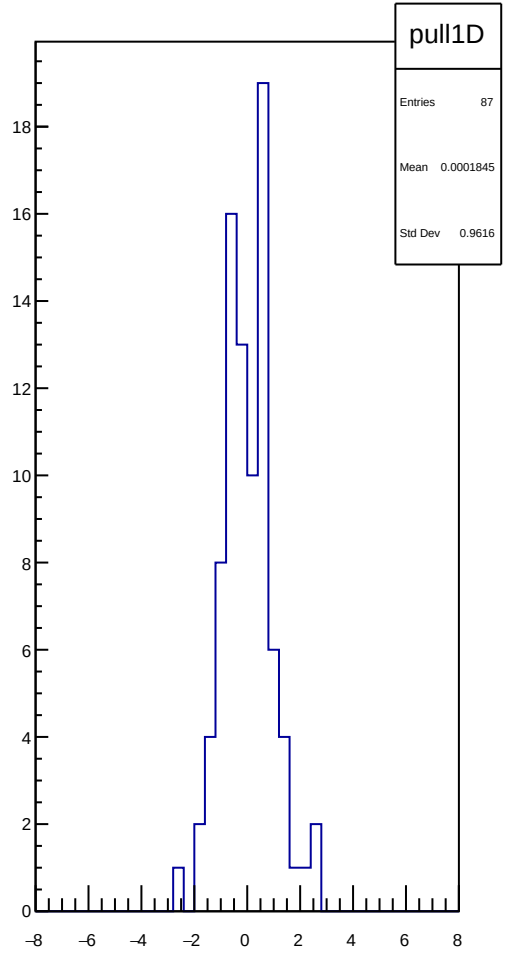

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 158.3 / 86
p0 1632 ± 1.257
1680
1660
1640
1620
1600

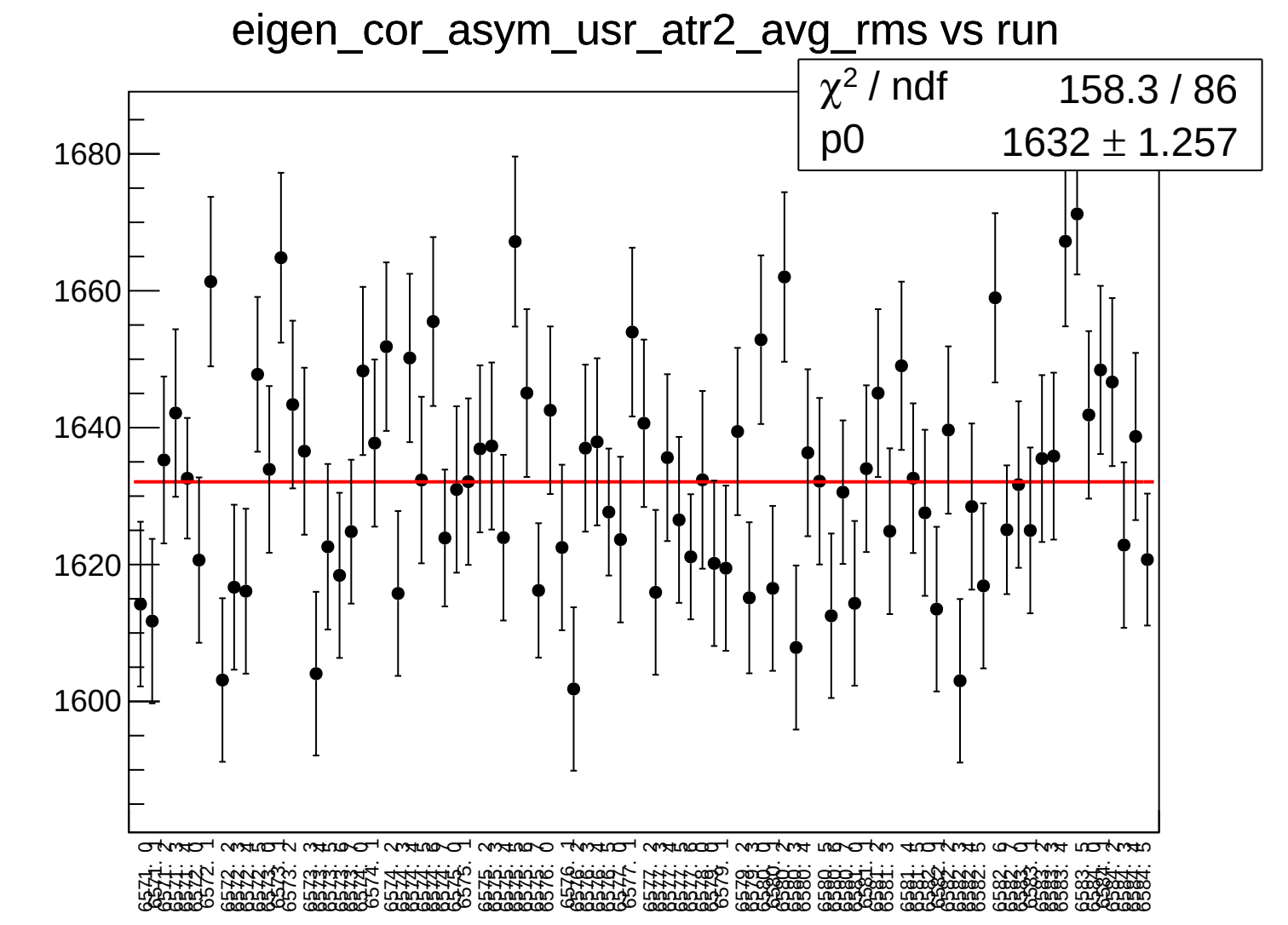

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 99.24 / 86
p0 4854 ± 4943
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −1099
Std Dev 0
2
1
0
−1
−2
−3

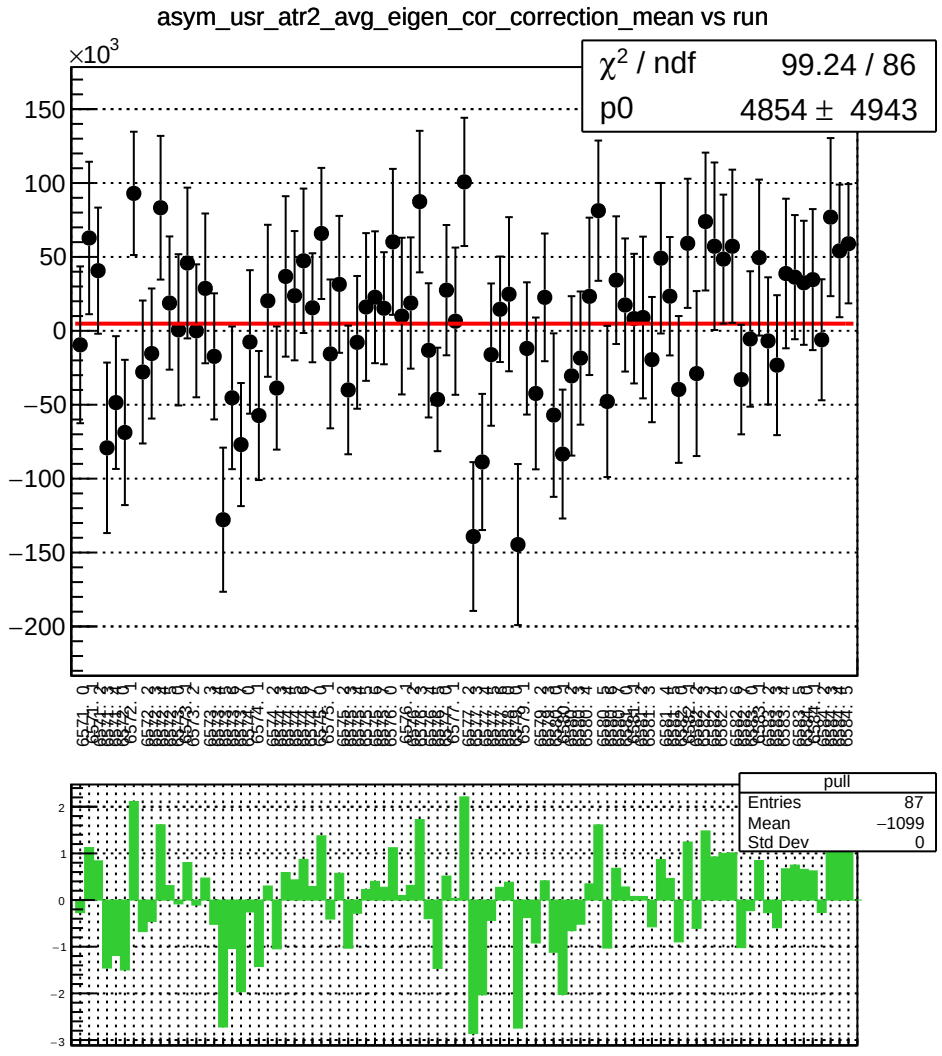

pull1D
Entries 87
Mean −0.004065
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

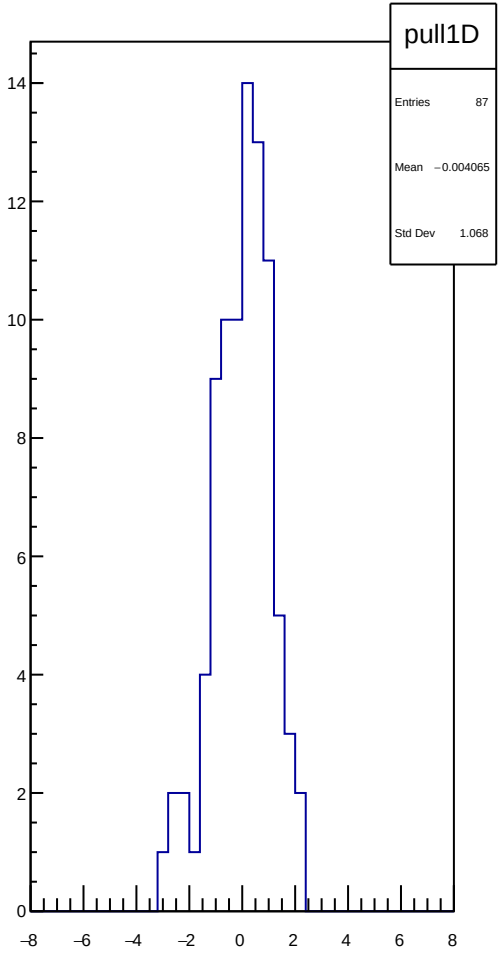

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 1.338e+04 / 86
p0 4521 ± 3.495
6000
5500
5000
4500
4000

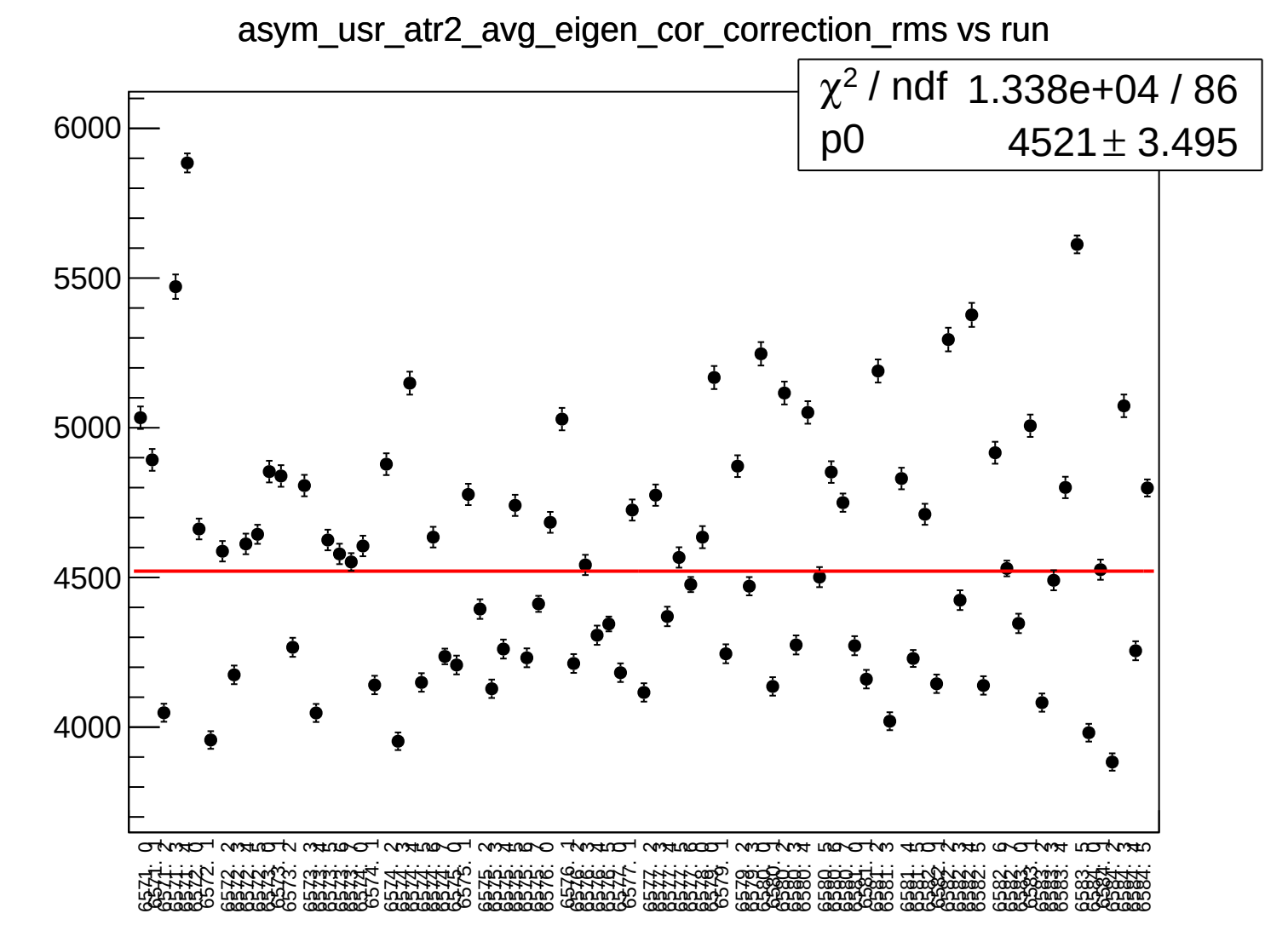

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.45 / 86
p0 −802.8 ± 1777
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −7703
Std Dev 0
2
1
0
−1
−2

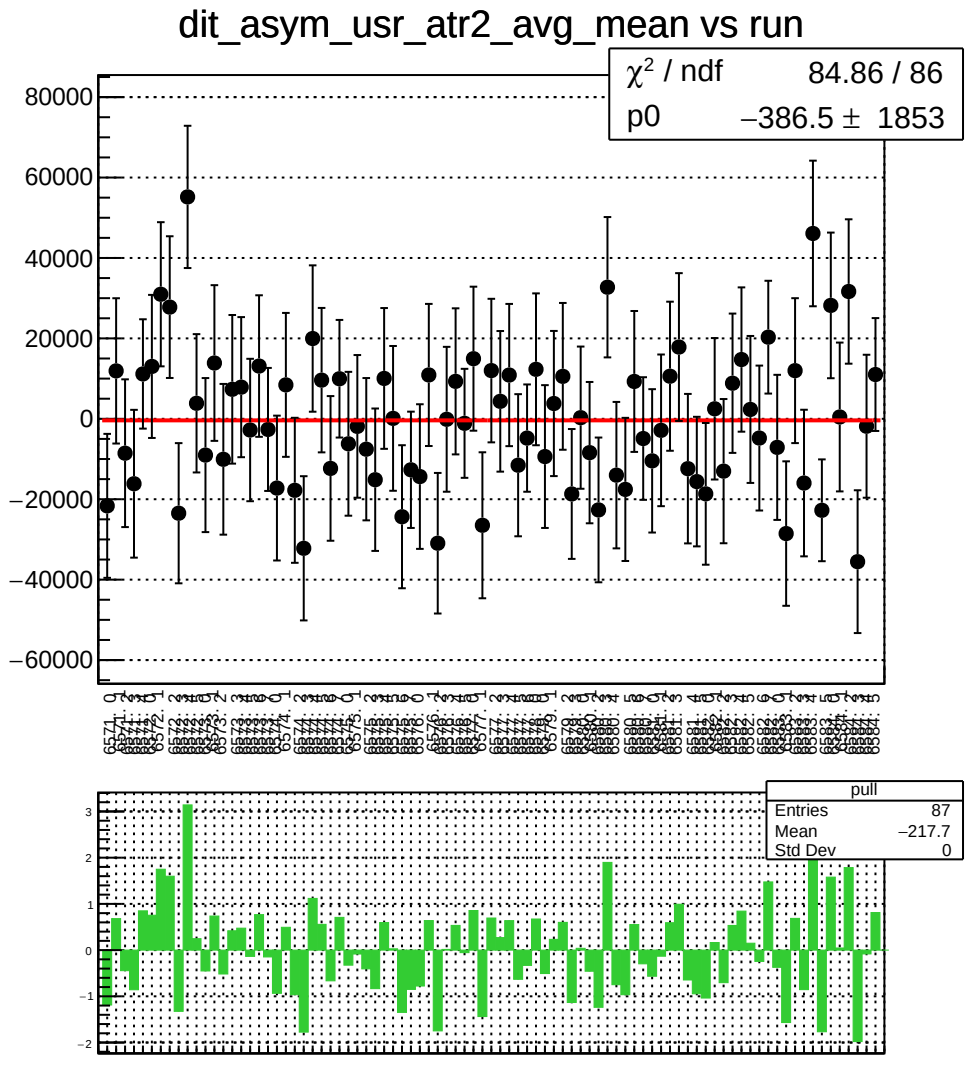

pull1D
Entries 87
Mean 0.0001845
Std Dev 0.9616
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

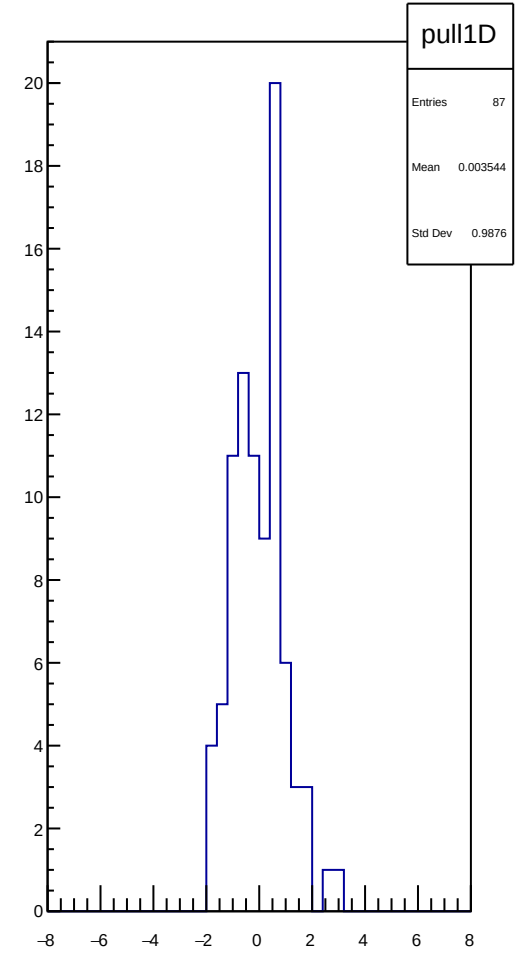

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 158.3 / 86
p0 1632 ± 1.257
1680
1660
1640
1620
1600

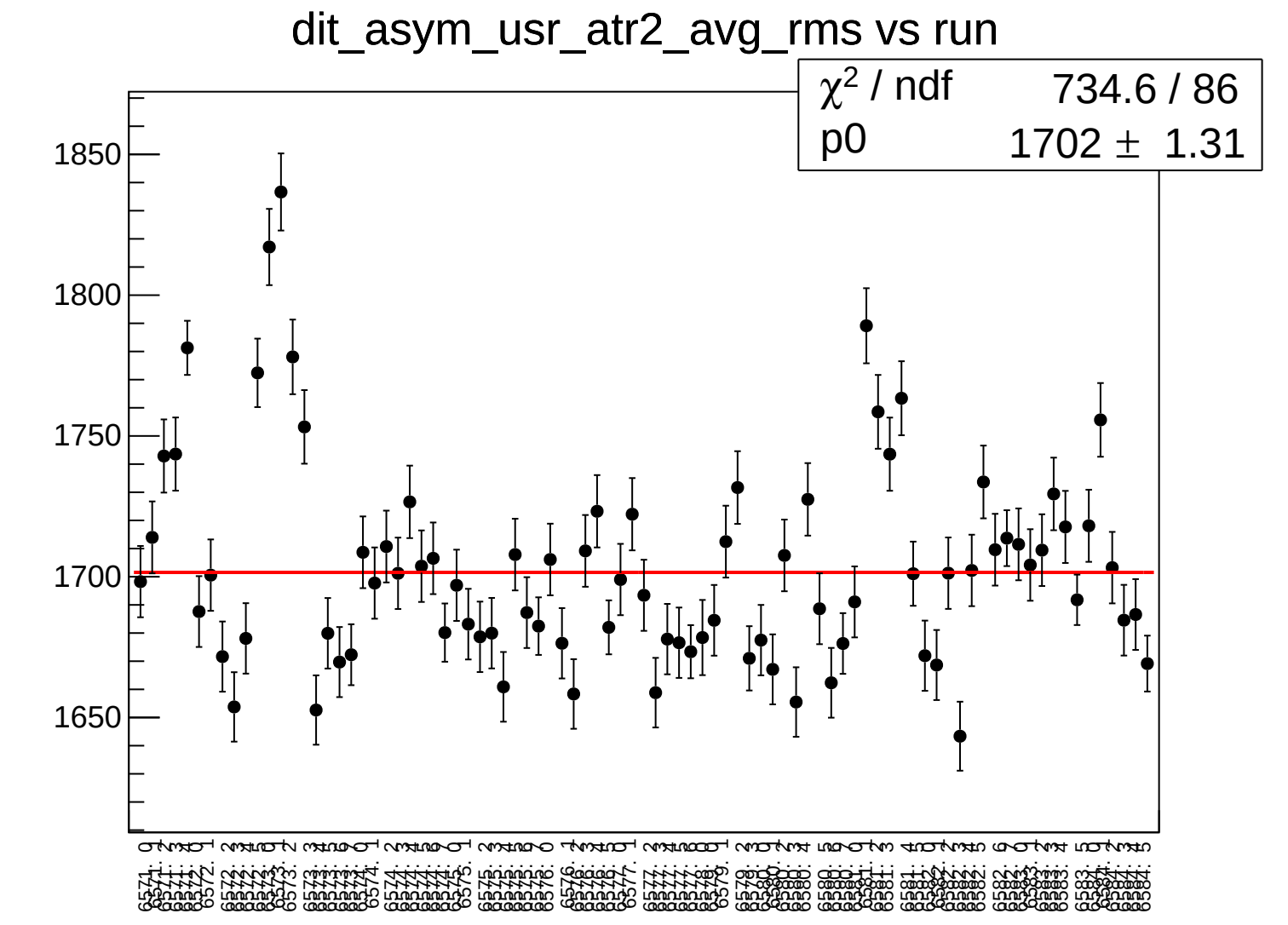

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 99.24 / 86
p0 4854 ± 4943
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −1099
Std Dev 0
2
1
0
−1
−2
−3

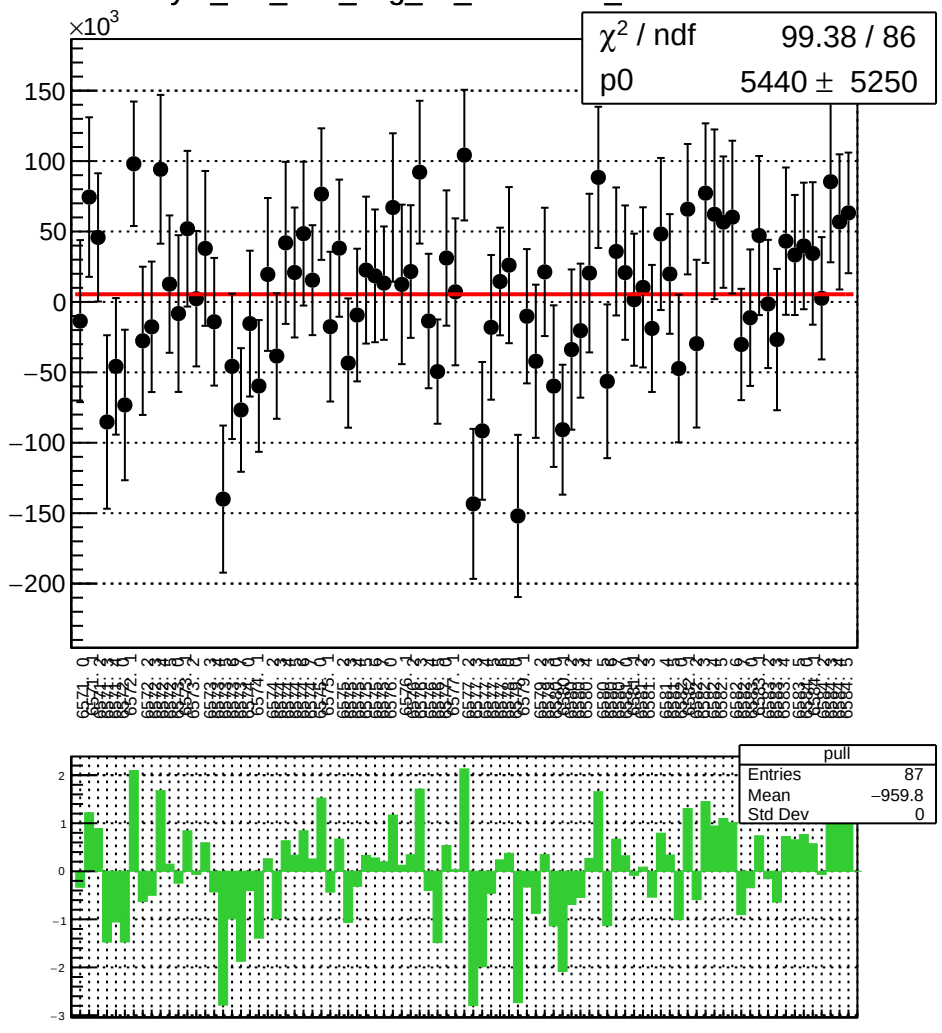

pull1D
Entries 87
Mean −0.004065
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

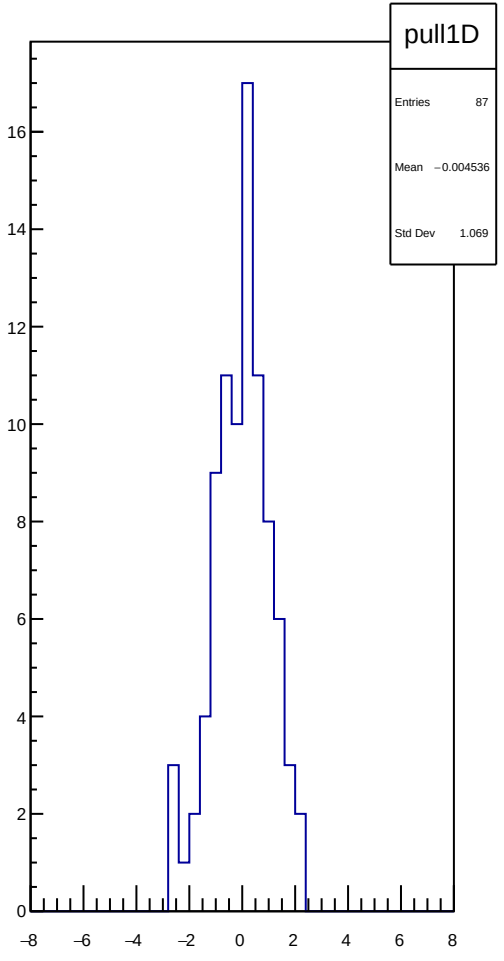

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.338e+04 / 86
p0 4521 ± 3.495
6000
5500
5000
4500
4000

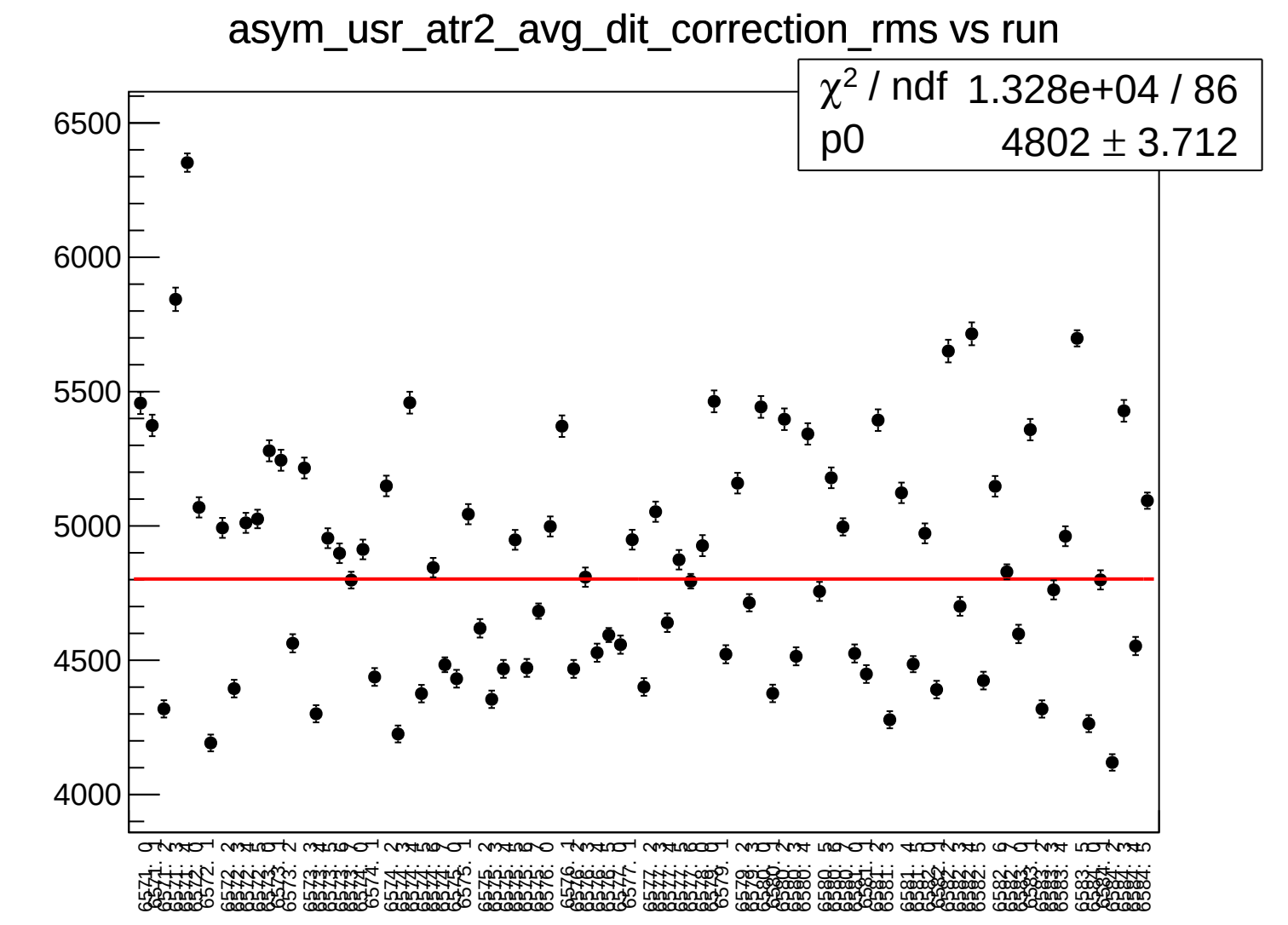

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.86 / 86
p0 −386.5 ± 1853
pull
Entries 87
Mean −217.7
Std Dev 0

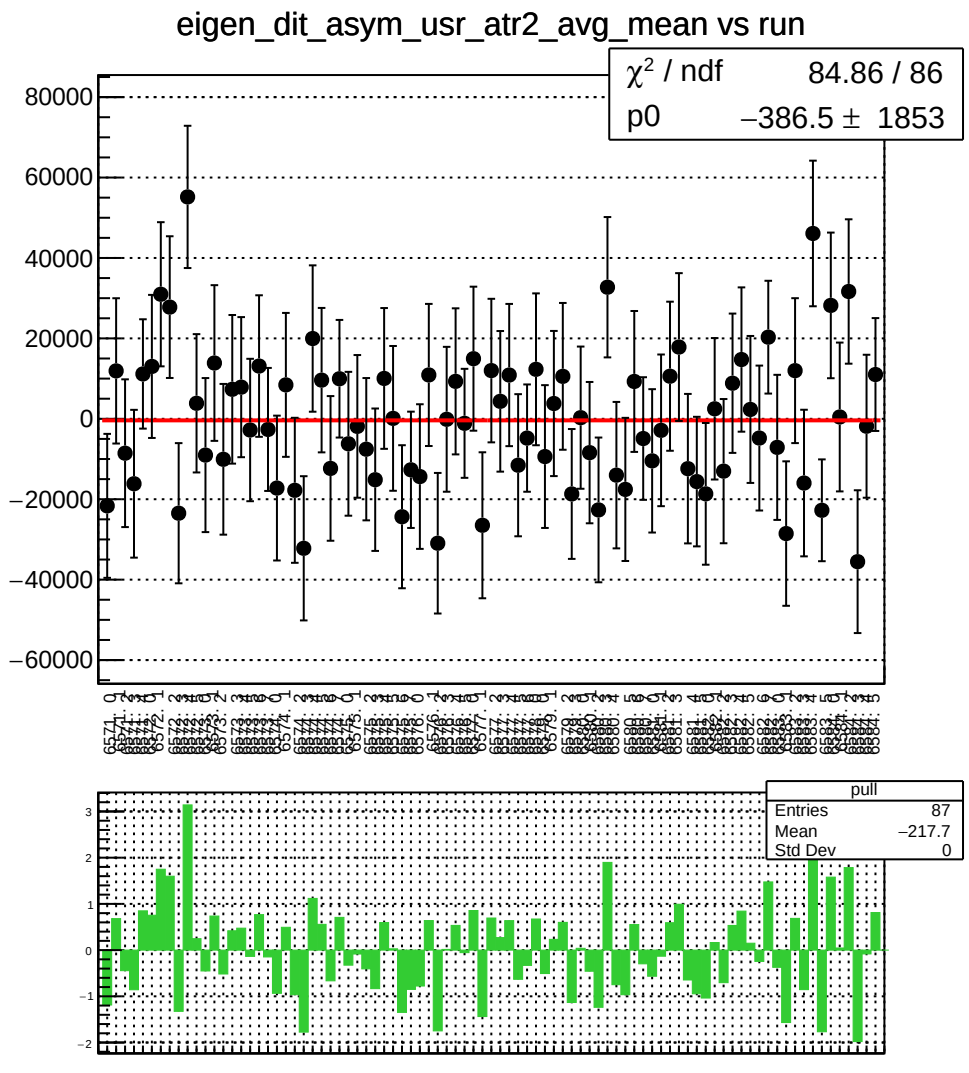

pull1D
Entries 87
Mean 0.003544
Std Dev 0.9876

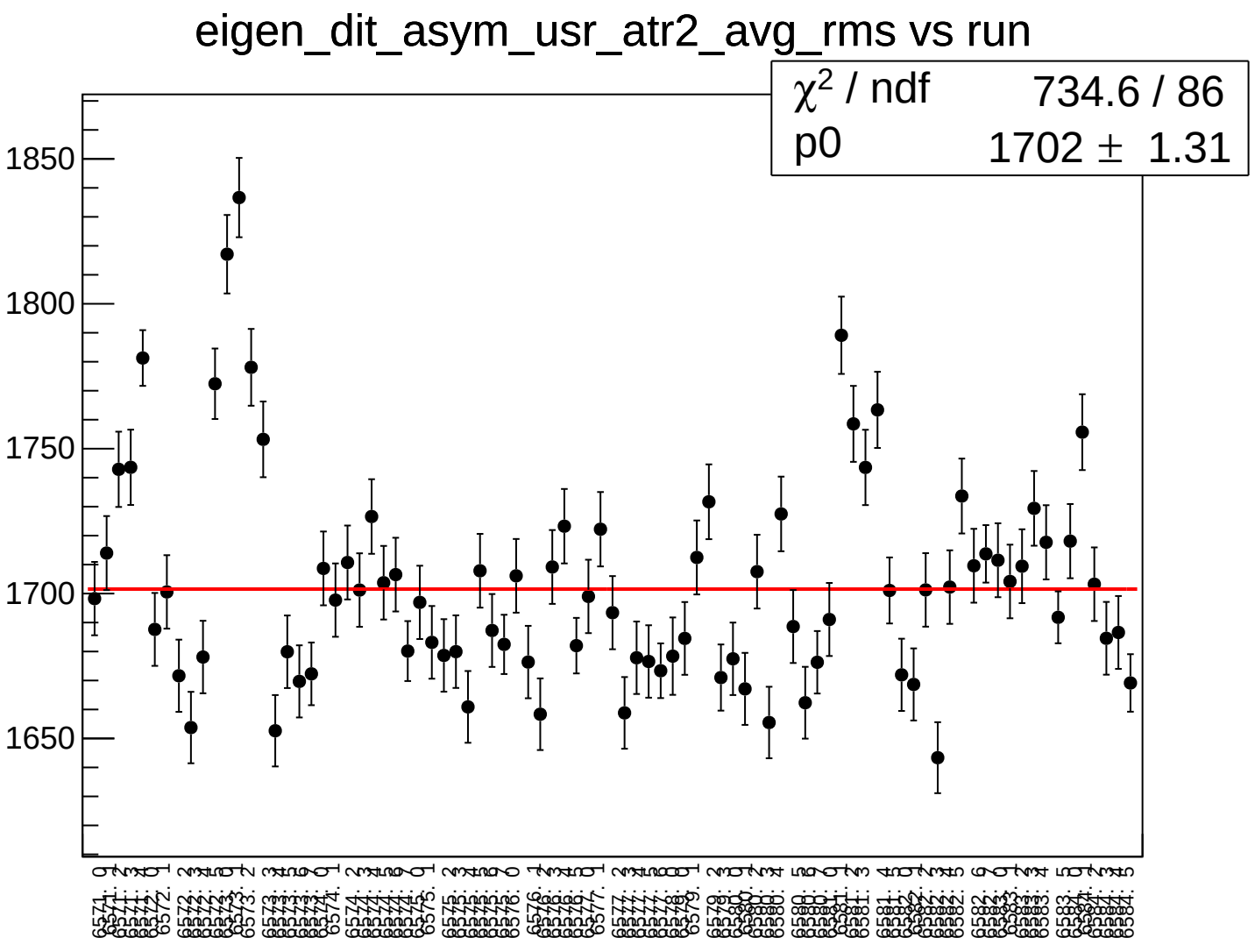

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 734.6 / 86
p0 1702 ± 1.31
1850
1800
1750
1700
1650

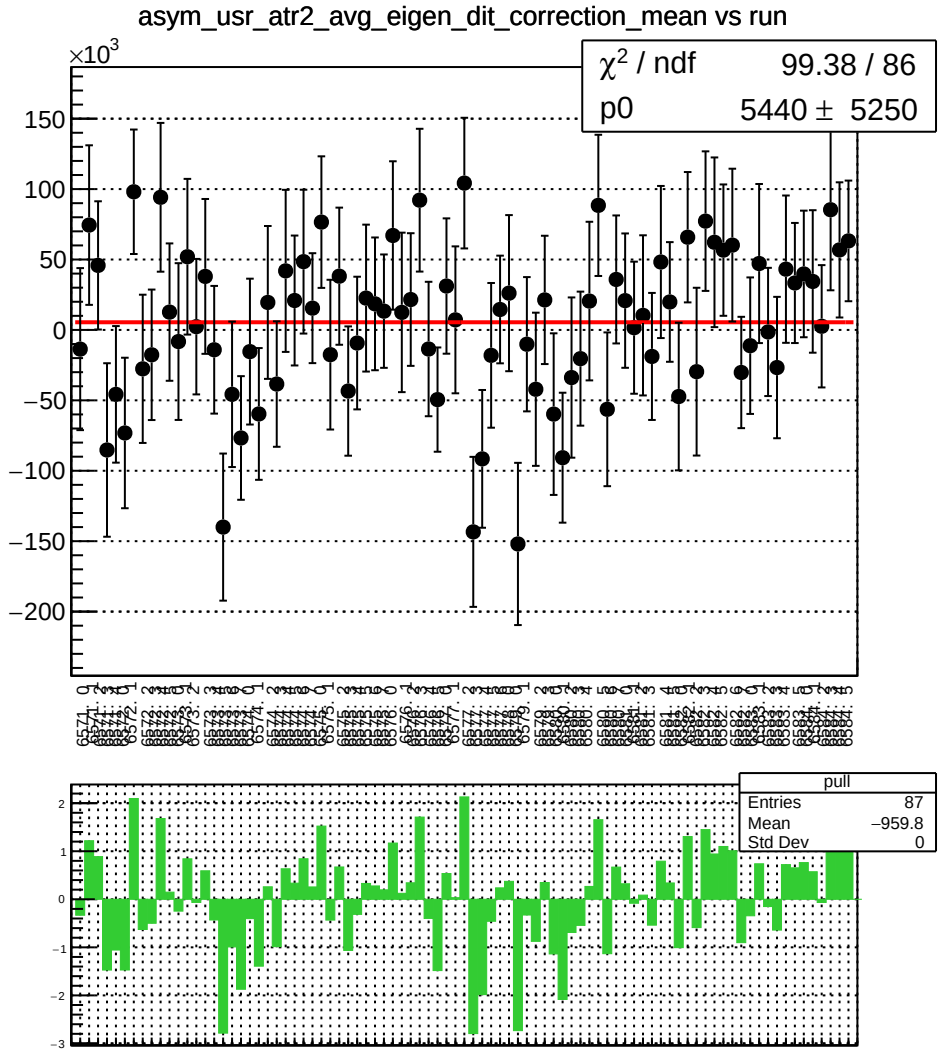

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.38 / 86
p0 5440 ± 5250
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −959.8
Std Dev 0
2
1
0
−1
−2
−3

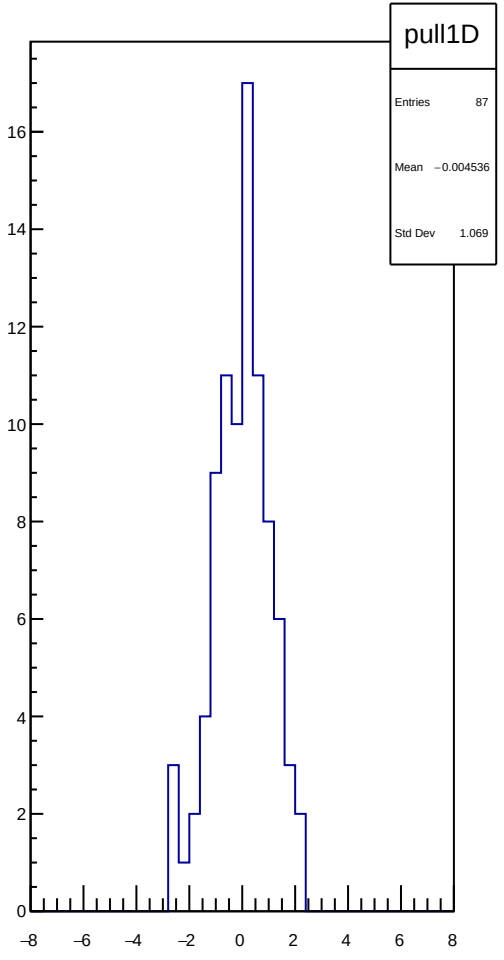

pull1D
Entries 87
Mean −0.004536
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

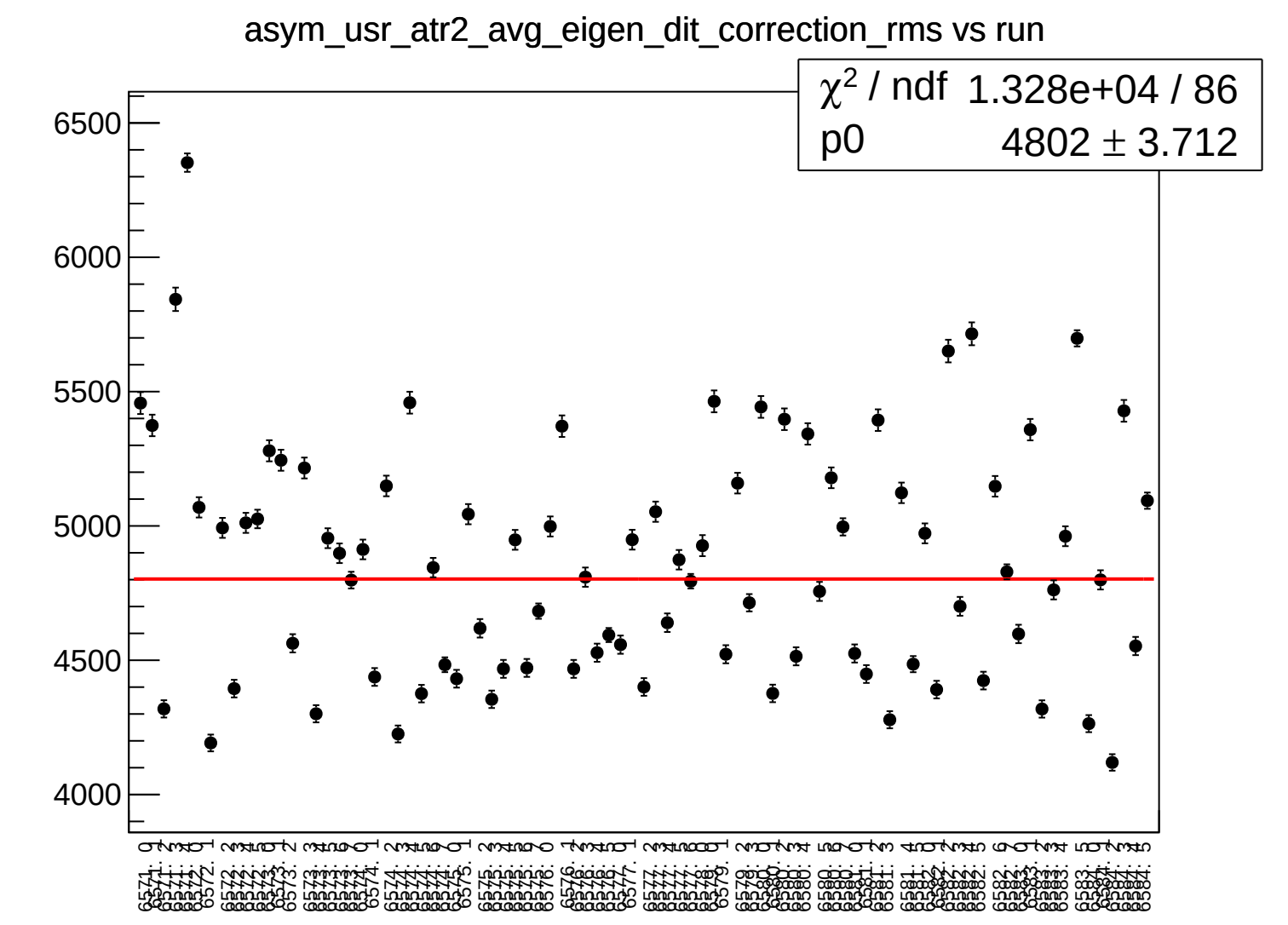

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1.328e+04 / 86
p0 4802 ± 3.712
6500
6000
5500
5000
4500
4000

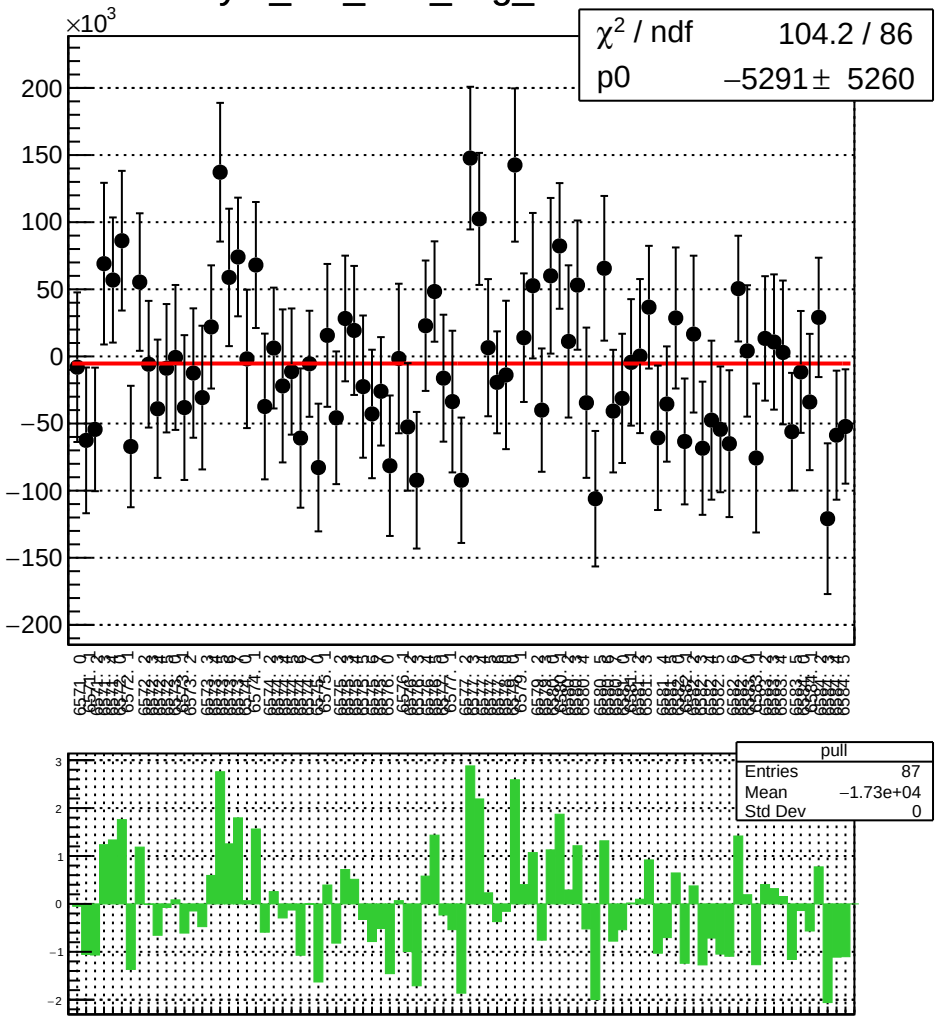

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.86 / 86
p0 −386.5 ± 1853
pull
Entries 87
Mean −217.7
Std Dev 0
pull1D
Entries 87
Mean 0.003544
Std Dev 0.9876

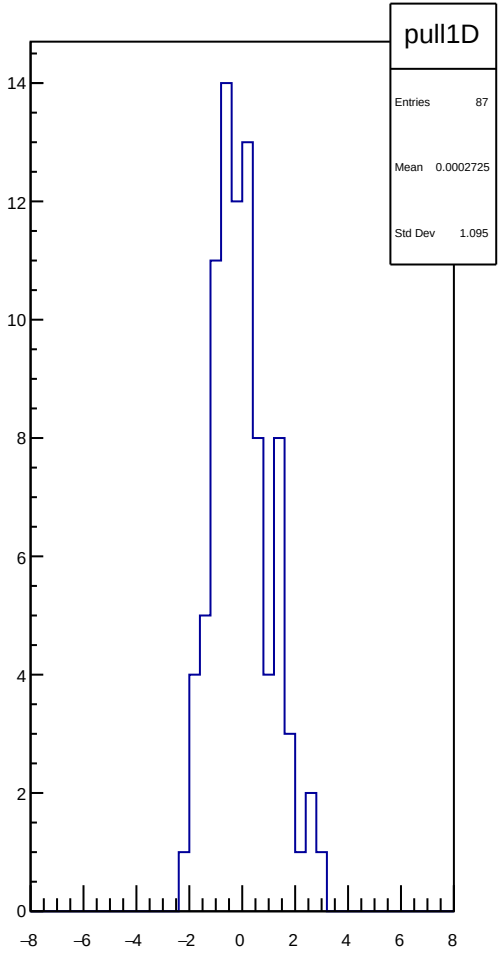

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 734.6 / 86
p0 1702 ± 1.31
1850
1800
1750
1700
1650

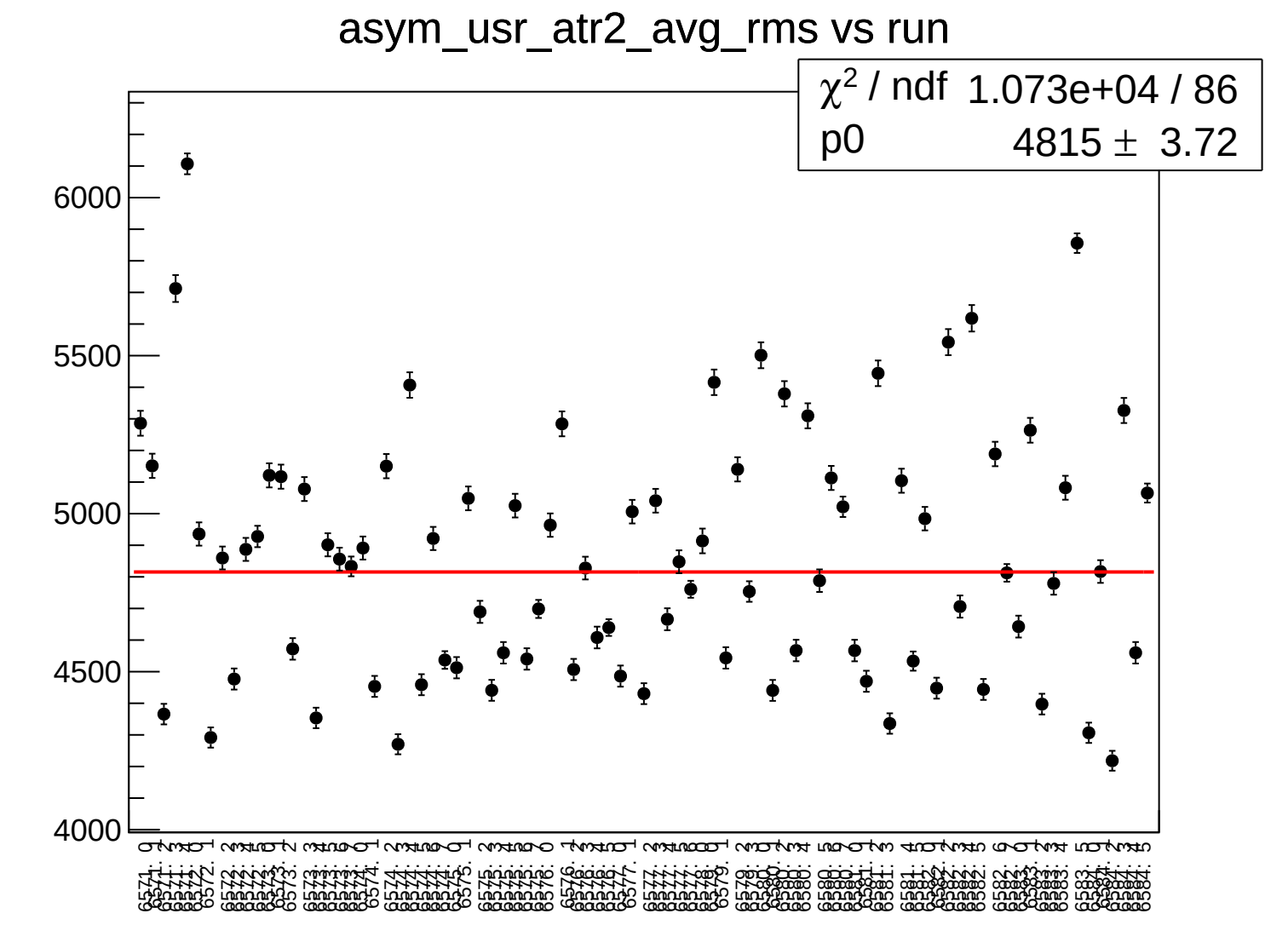

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 99.38 / 86
p0 5440 ± 5250
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −959.8
Std Dev 0
2
1
0
−1
−2
−3

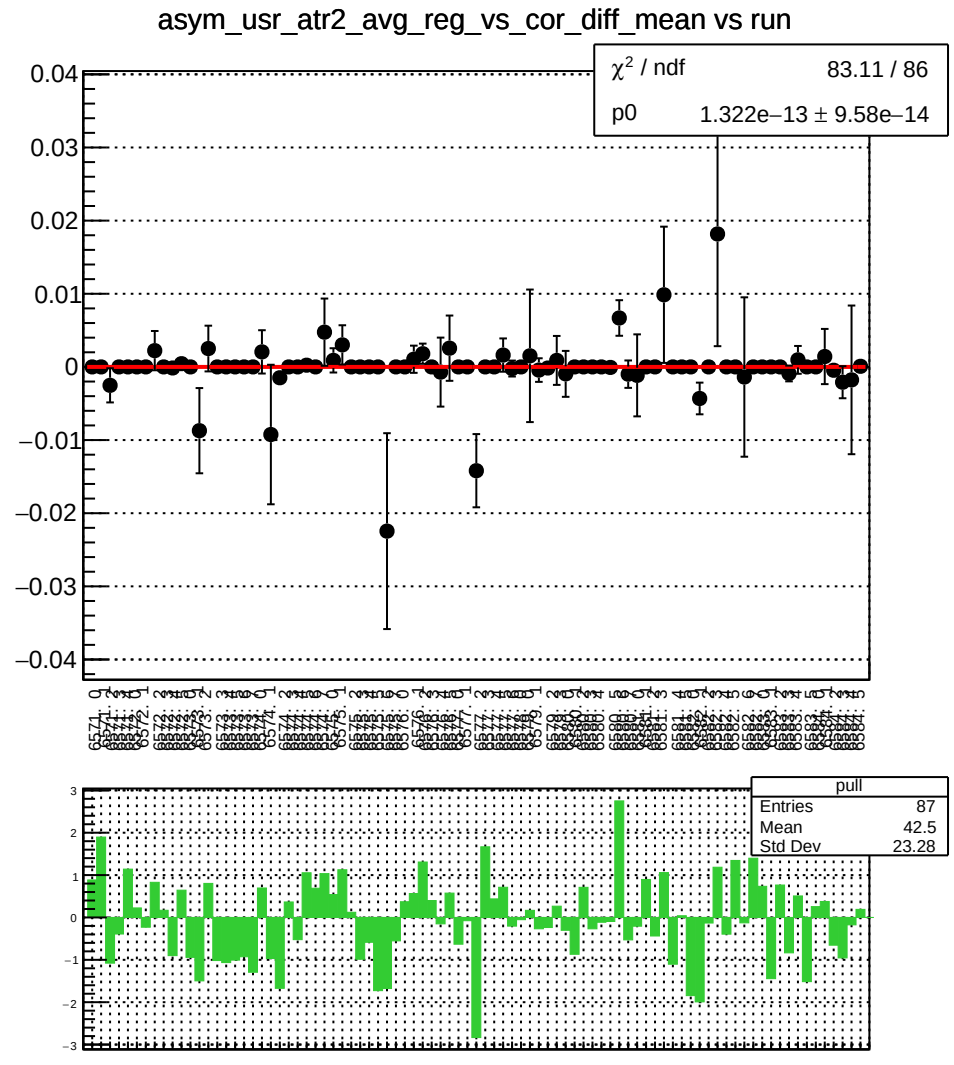

pull1D
Entries 87
Mean −0.004536
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

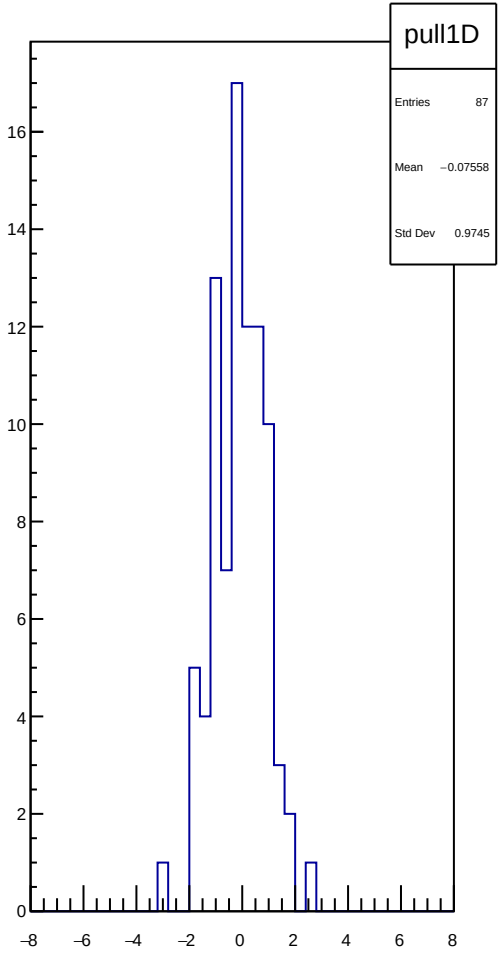

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.328e+04 / 86
p0 4802 ± 3.712
6500
6000
5500
5000
4500
4000

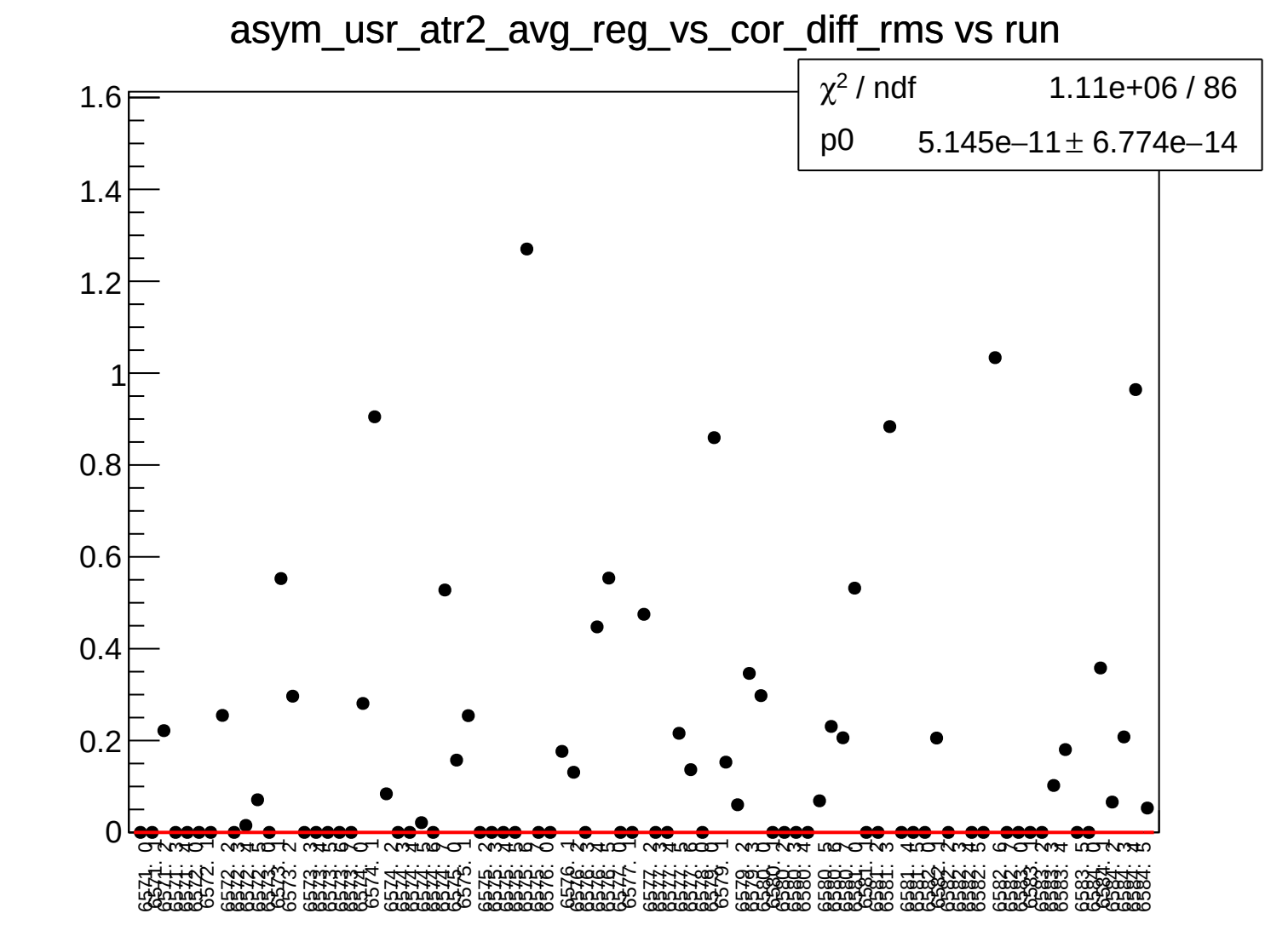

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 104.2 / 86
p0 −5291 ± 5260
pull
Entries 87
Mean −1.73e+04
Std Dev 0

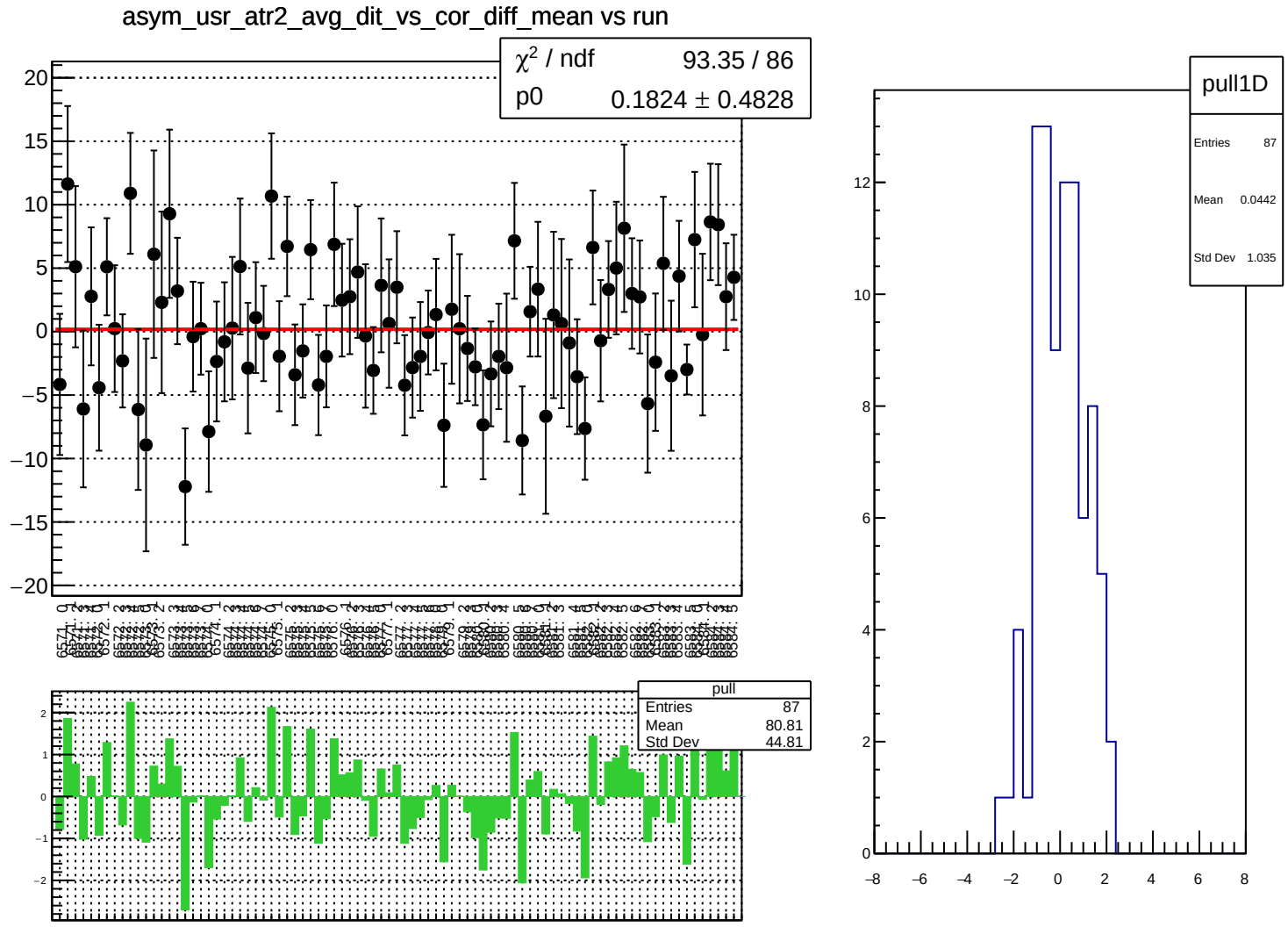

pull1D
Entries 87
Mean 0.0002725
Std Dev 1.095

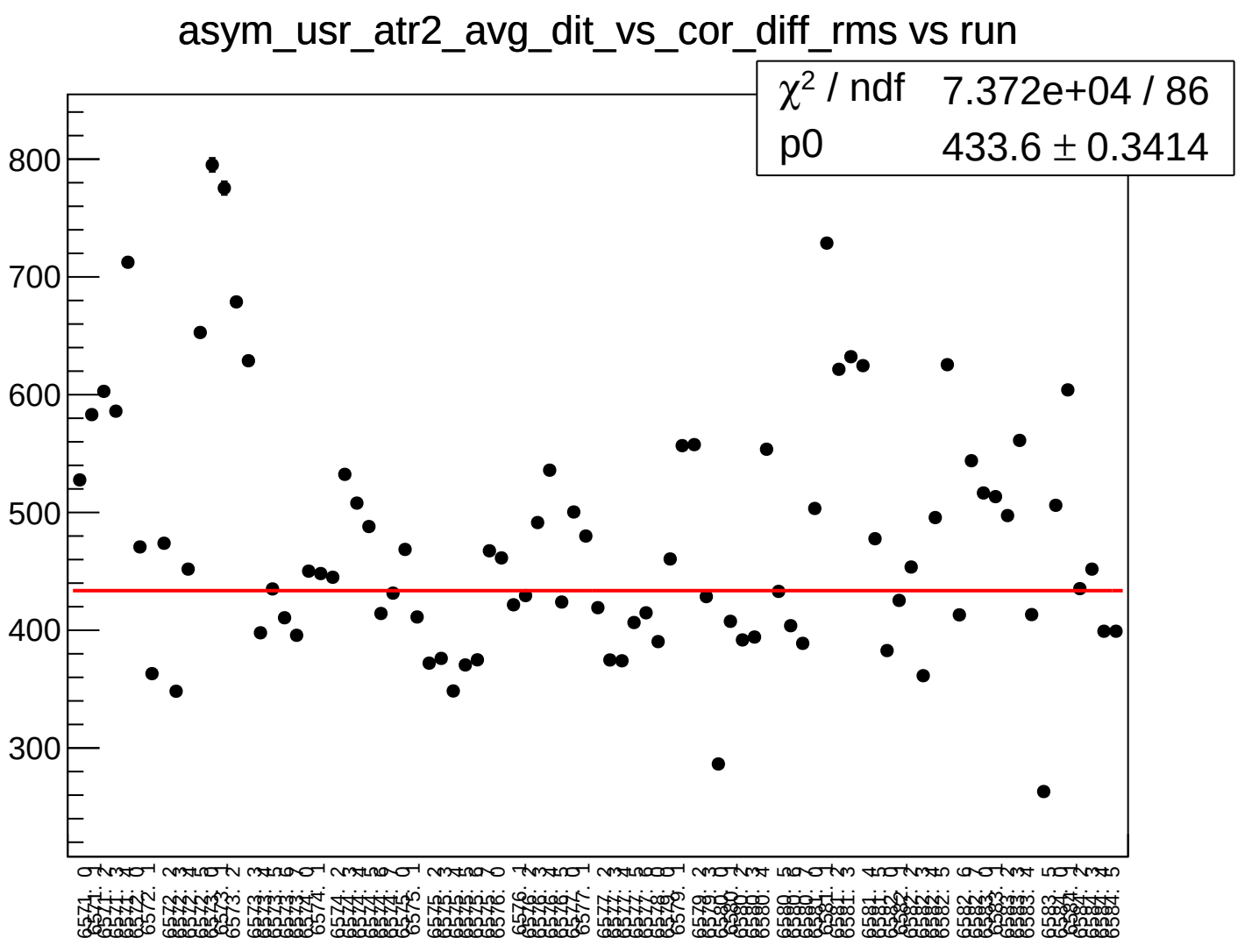

asym_usr_atr2_avg_rms vs run
χ² / ndf 1.073e+04 / 86
p0 4815 ± 3.72
6000
5500
5000
4500
4000

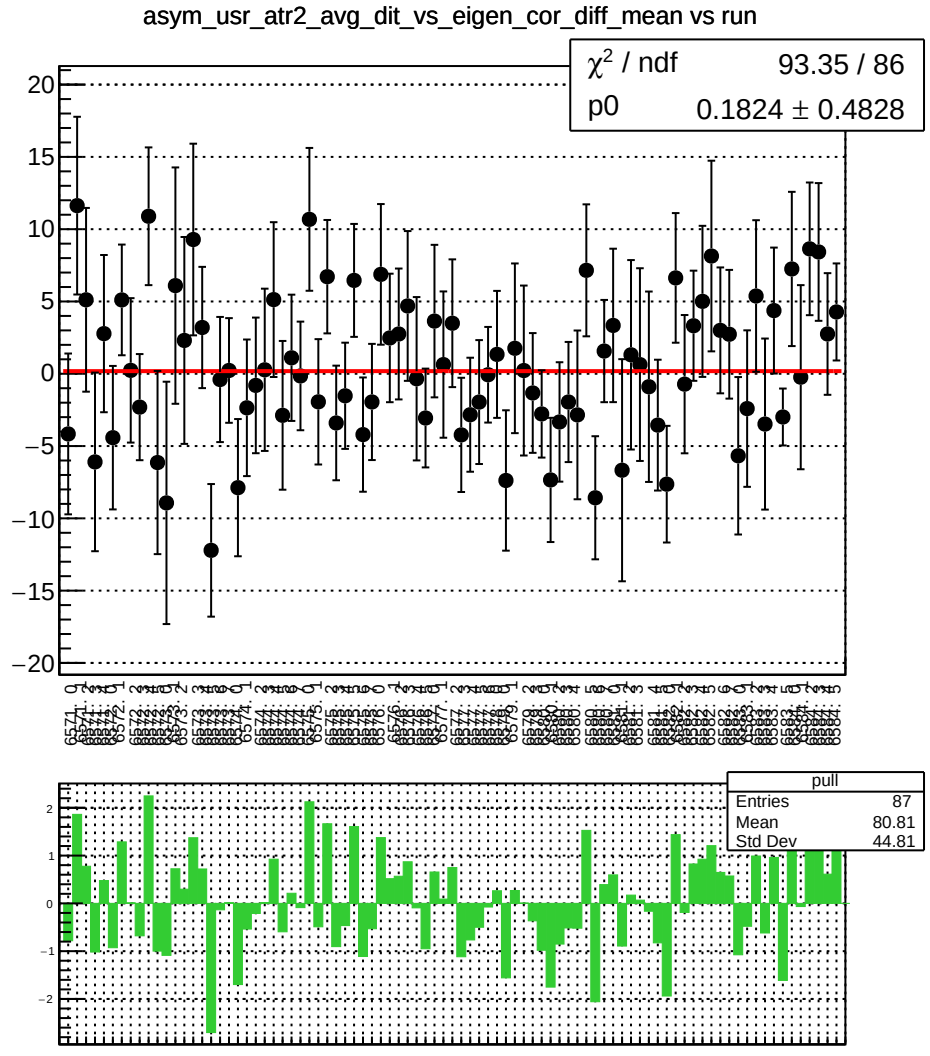

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.11 / 86
p0 1.322e−13 ± 9.58e−14
pull
Entries 87
Mean 42.5
Std Dev 23.28

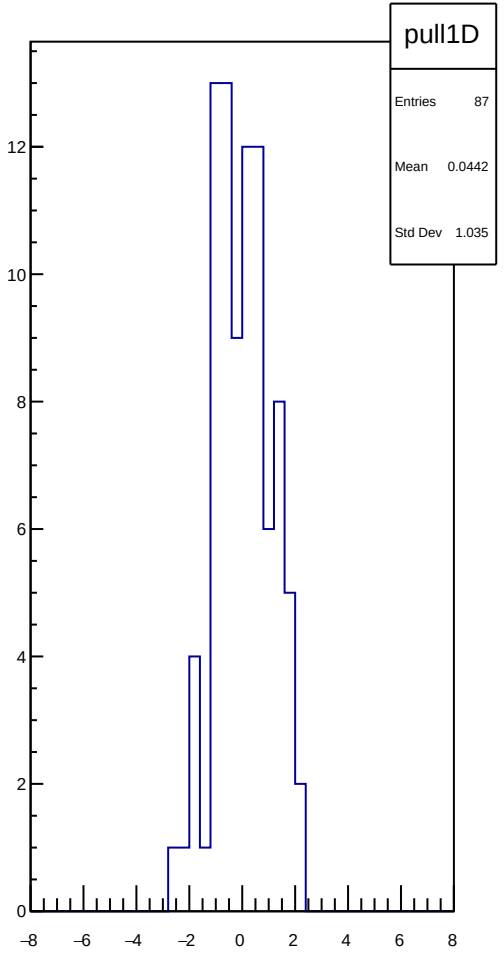

pull1D
Entries 87
Mean −0.07558
Std Dev 0.9745

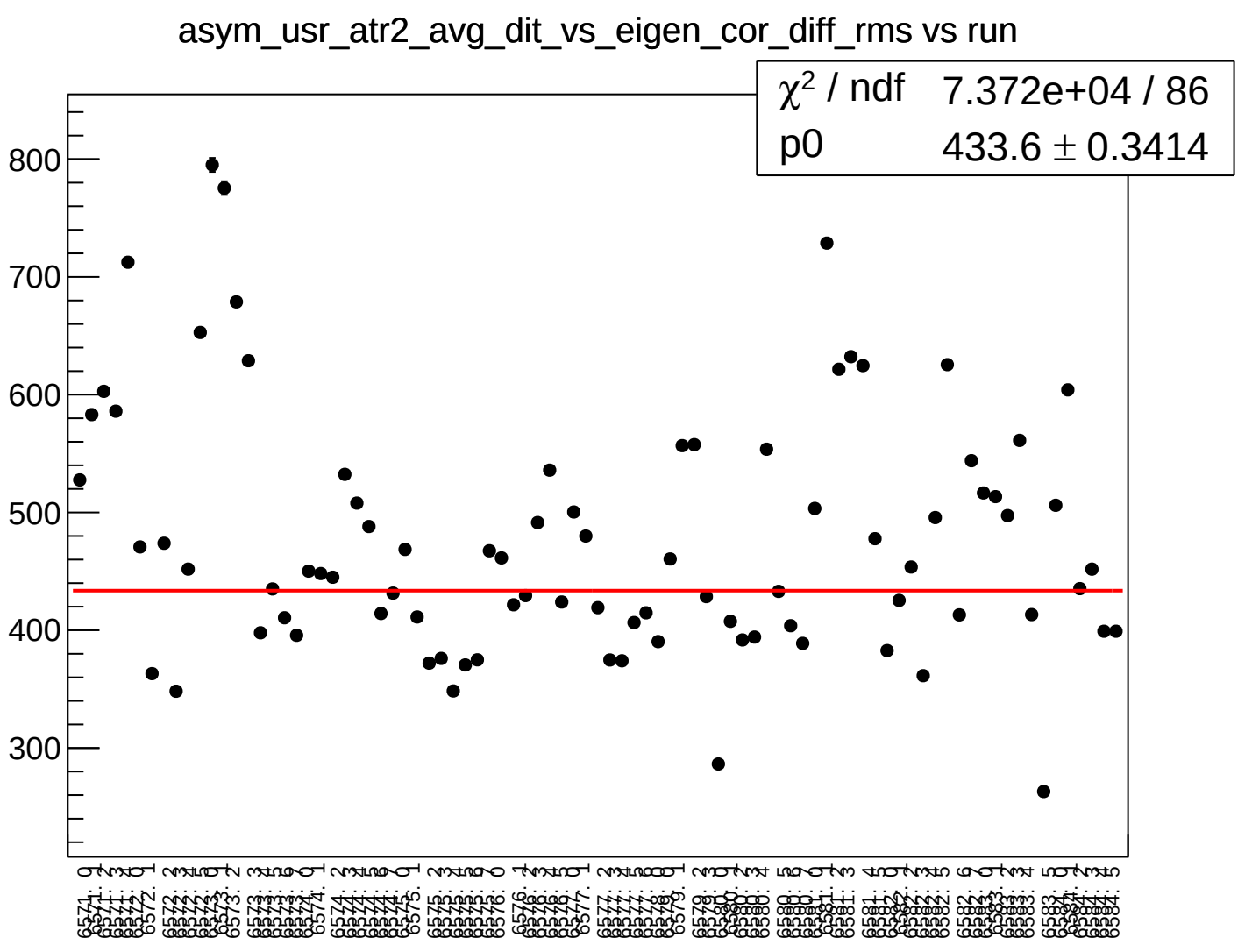

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.11e+06 / 86
p0 5.145e−11 ± 6.774e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

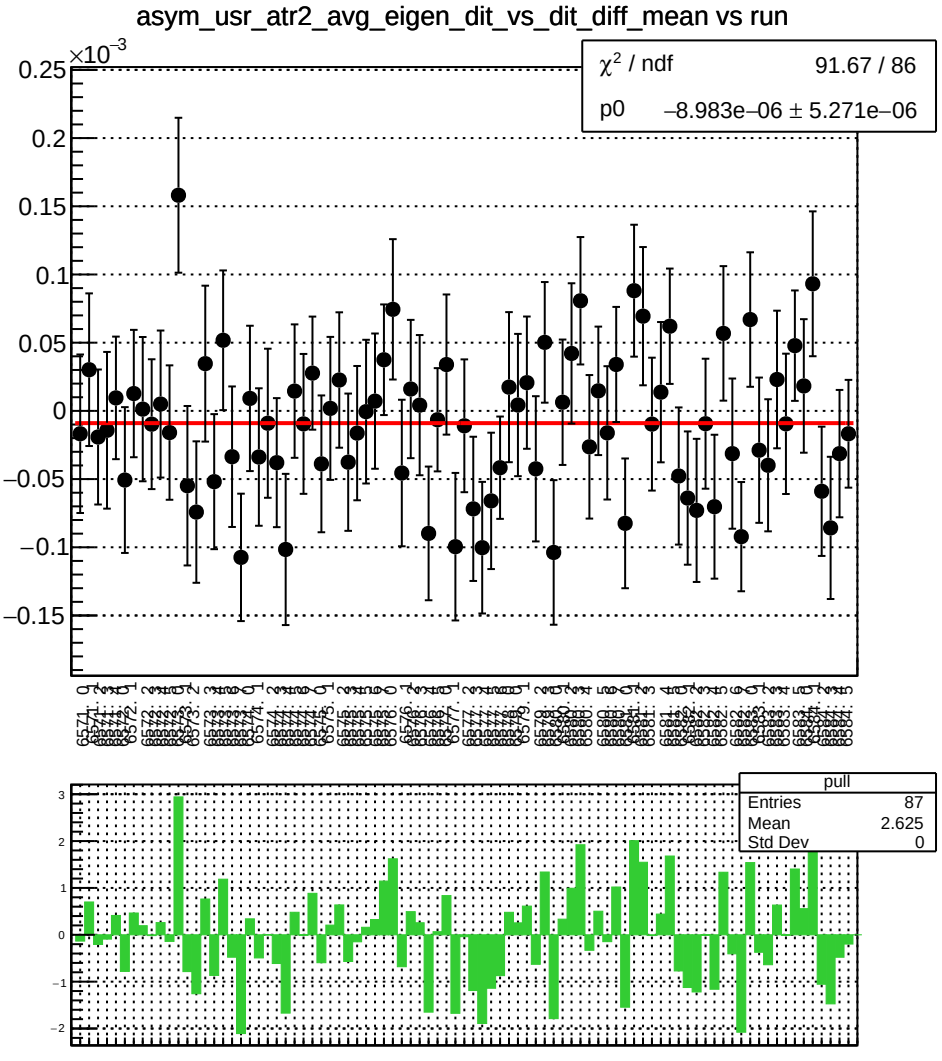

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.35 / 86
p0 0.1824 ± 0.4828
pull
Entries 87
Mean 80.81
Std Dev 44.81
pull1D
Entries 87
Mean 0.0442
Std Dev 1.035

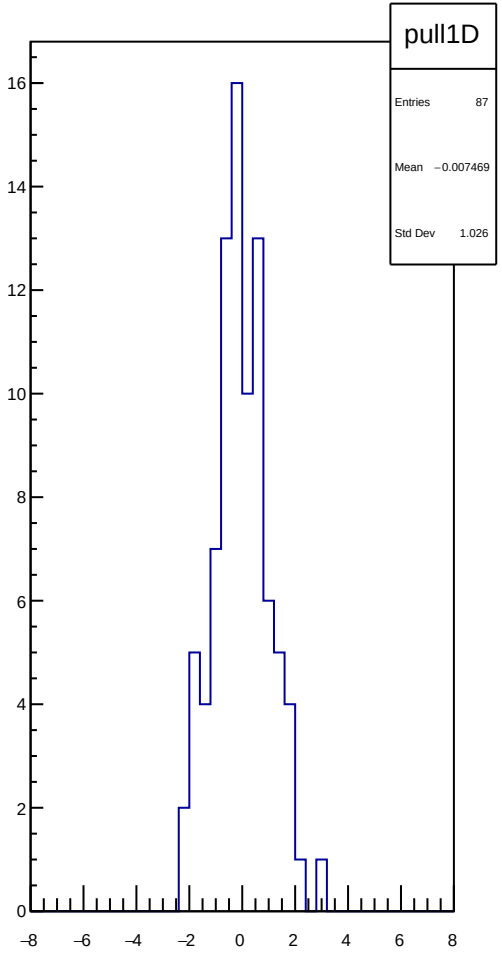

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.372e+04 / 86
p0 433.6 ± 0.3414
800
700
600
500
400
300

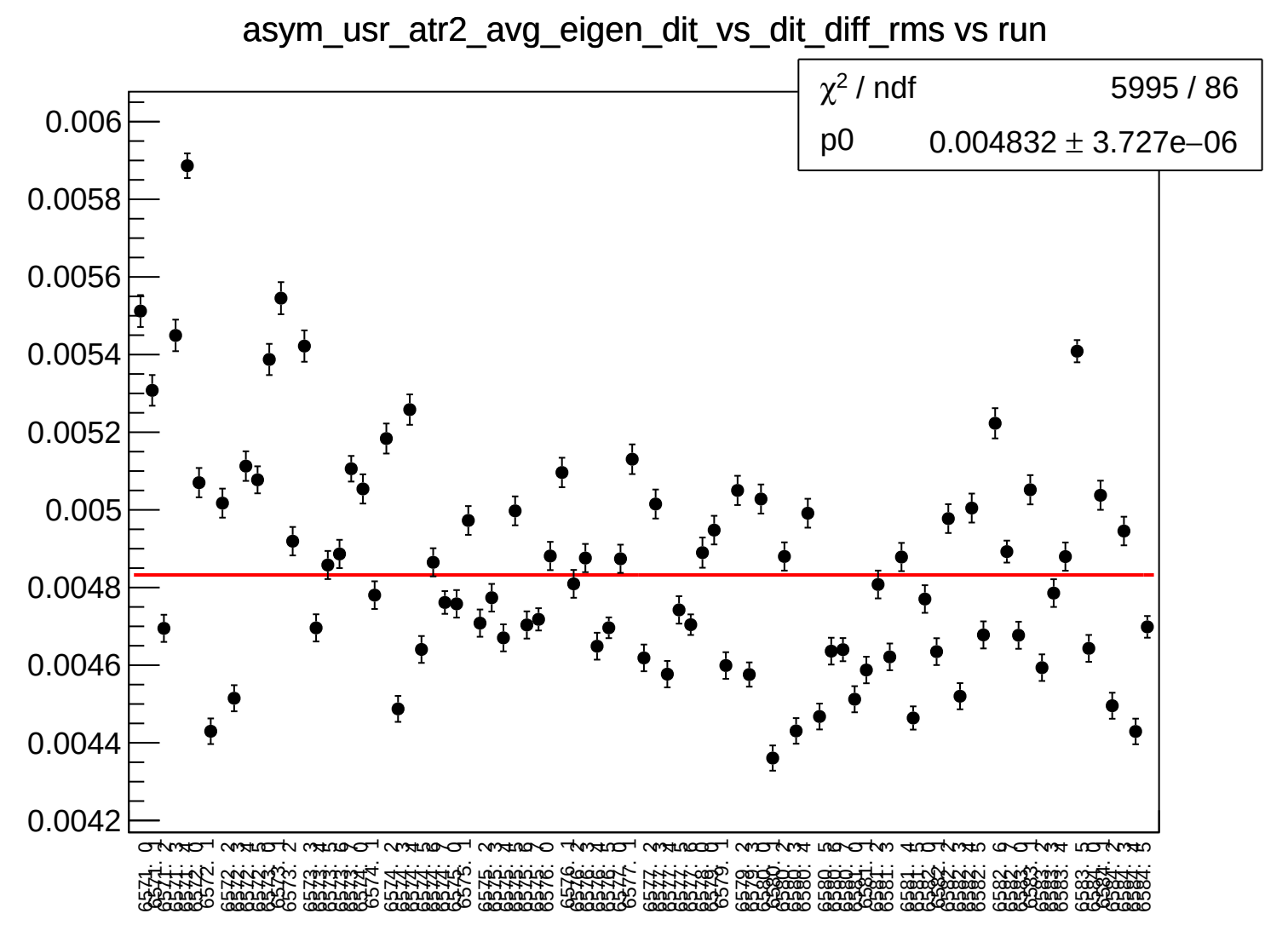

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.35 / 86
p0 0.1824 ± 0.4828
pull
Entries 87
Mean 80.81
Std Dev 44.81

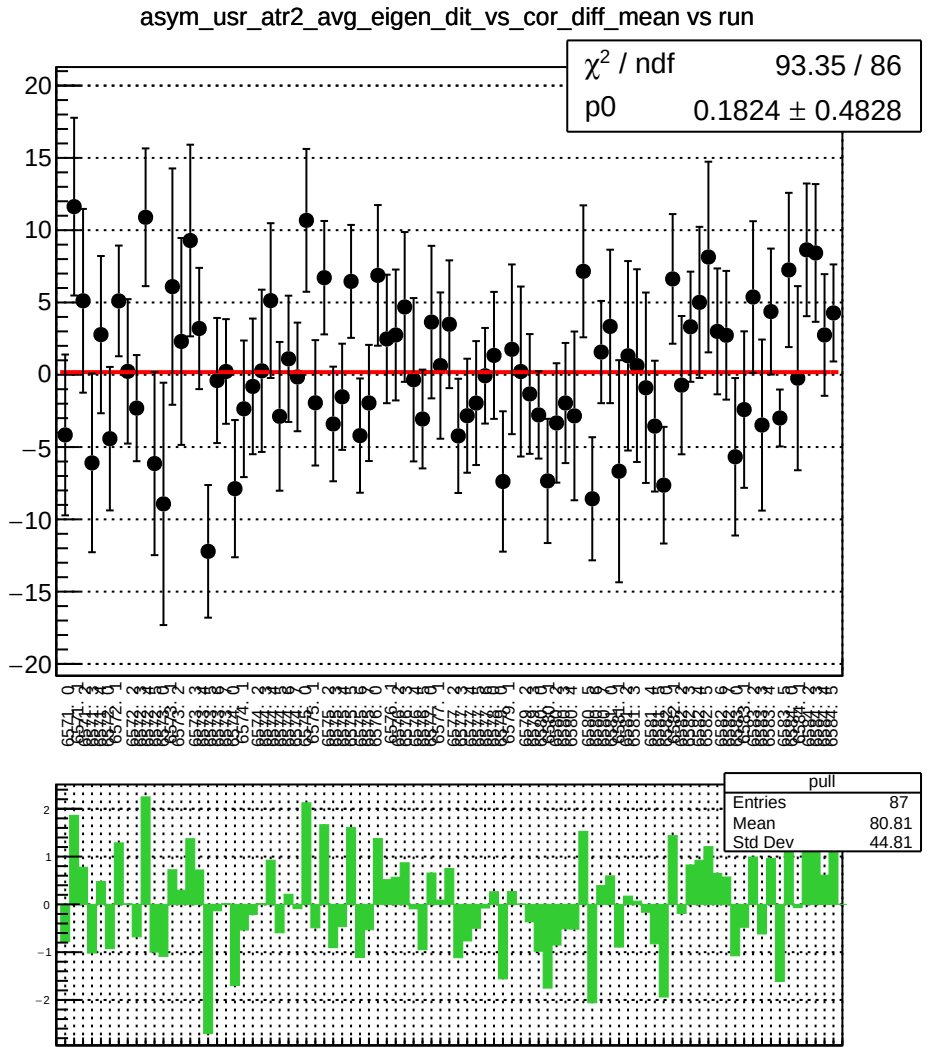

pull1D
Entries 87
Mean 0.0442
Std Dev 1.035

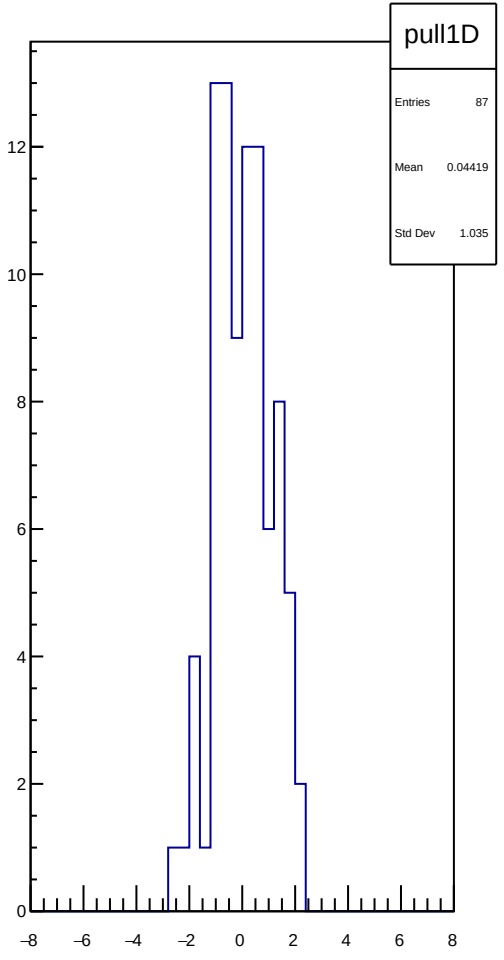

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.372e+04 / 86
p0 433.6 ± 0.3414
800
700
600
500
400
300

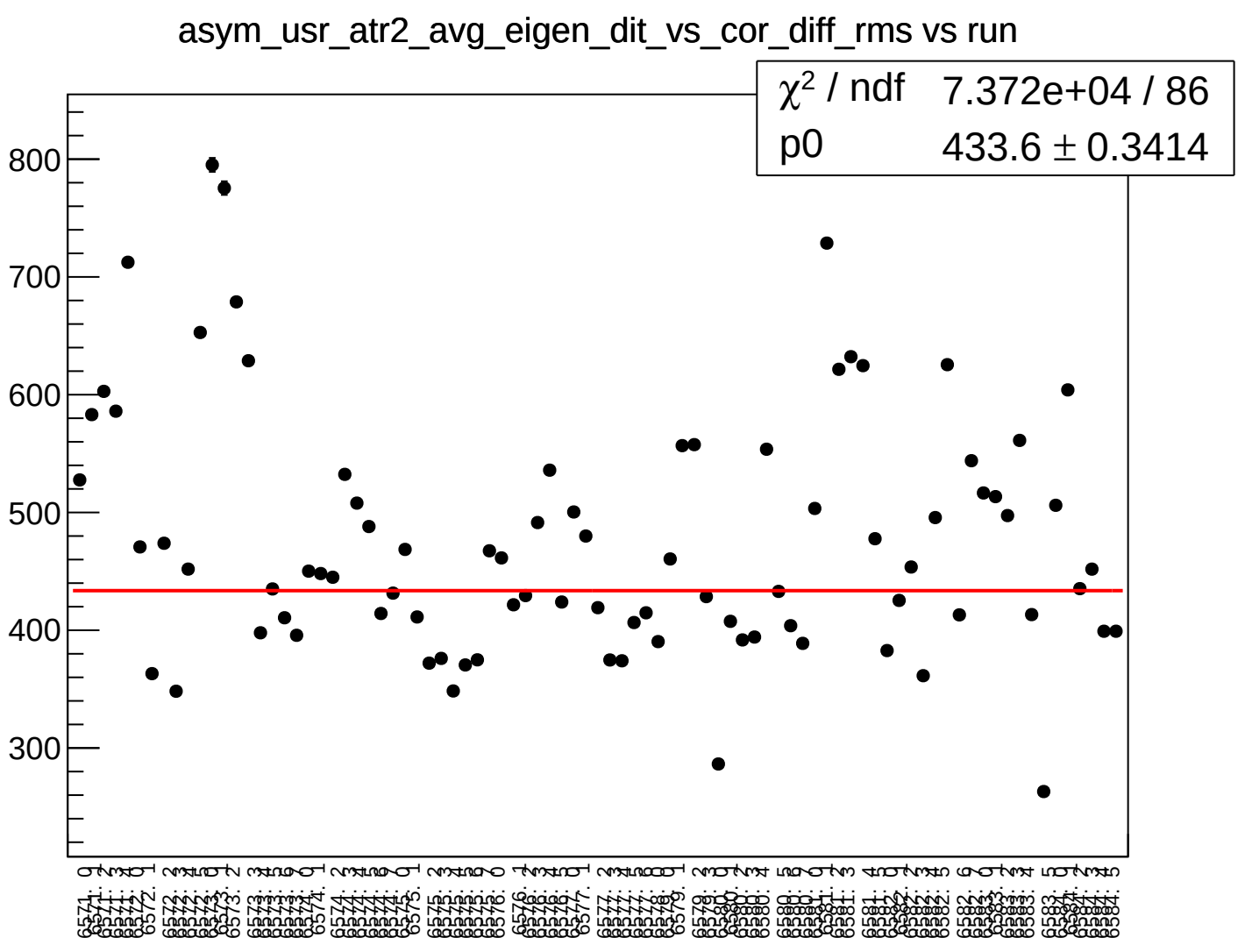

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.67 / 86
p0 −8.983e−06 ± 5.271e−06
pull
Entries 87
Mean 2.625
Std Dev 0

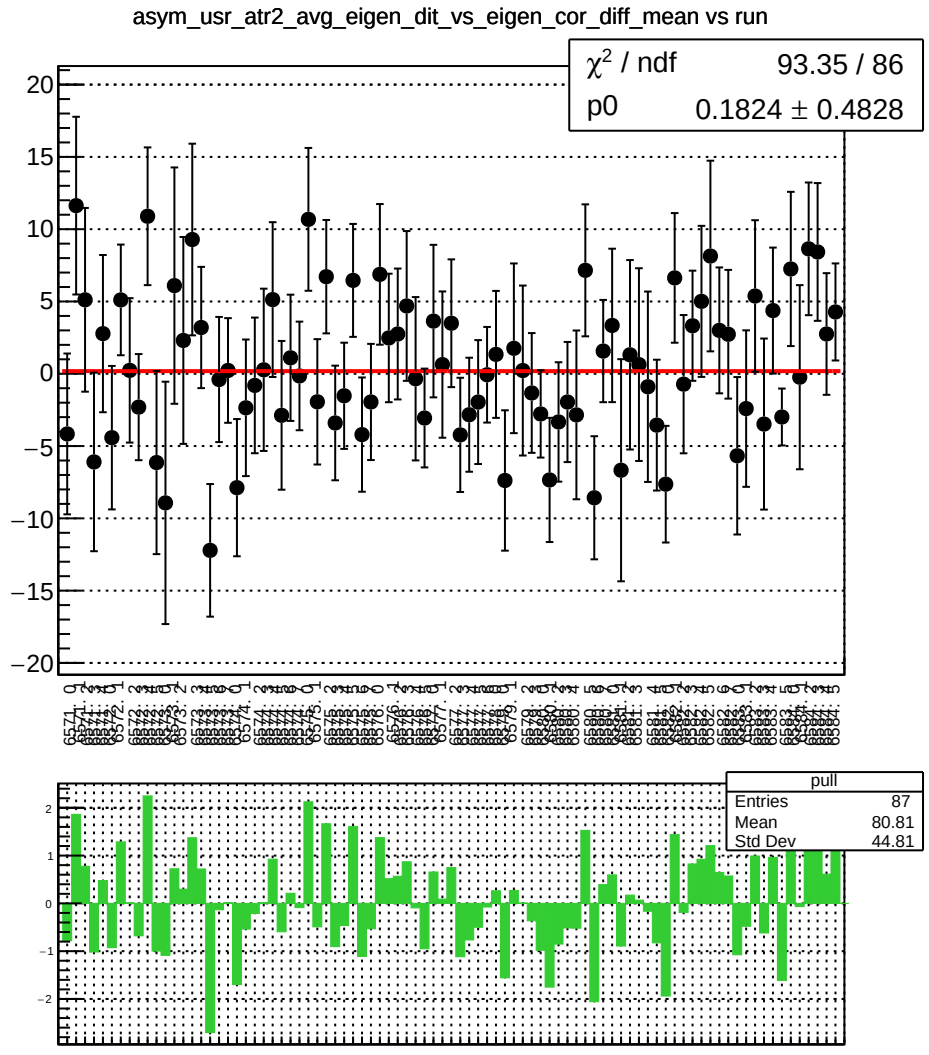

pull1D
Entries 87
Mean −0.007469
Std Dev 1.026

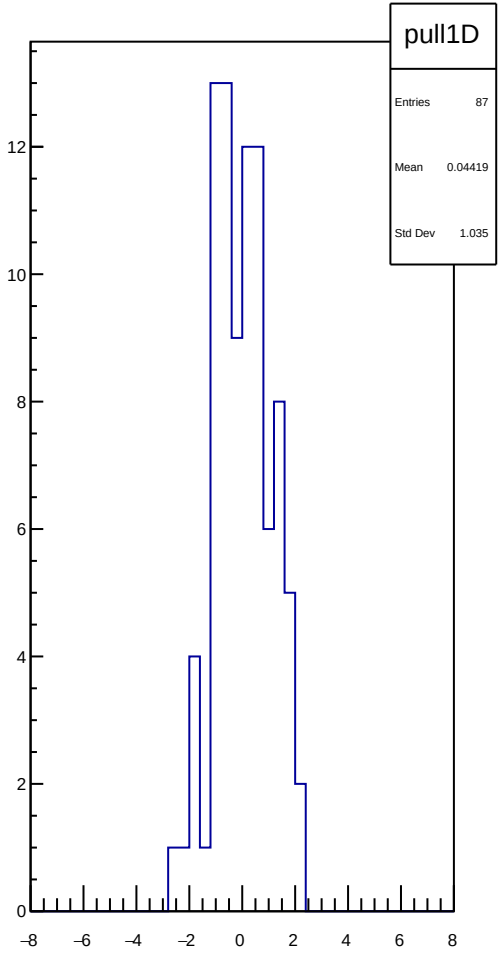

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5995 / 86
p0 0.004832 ± 3.727e−06
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

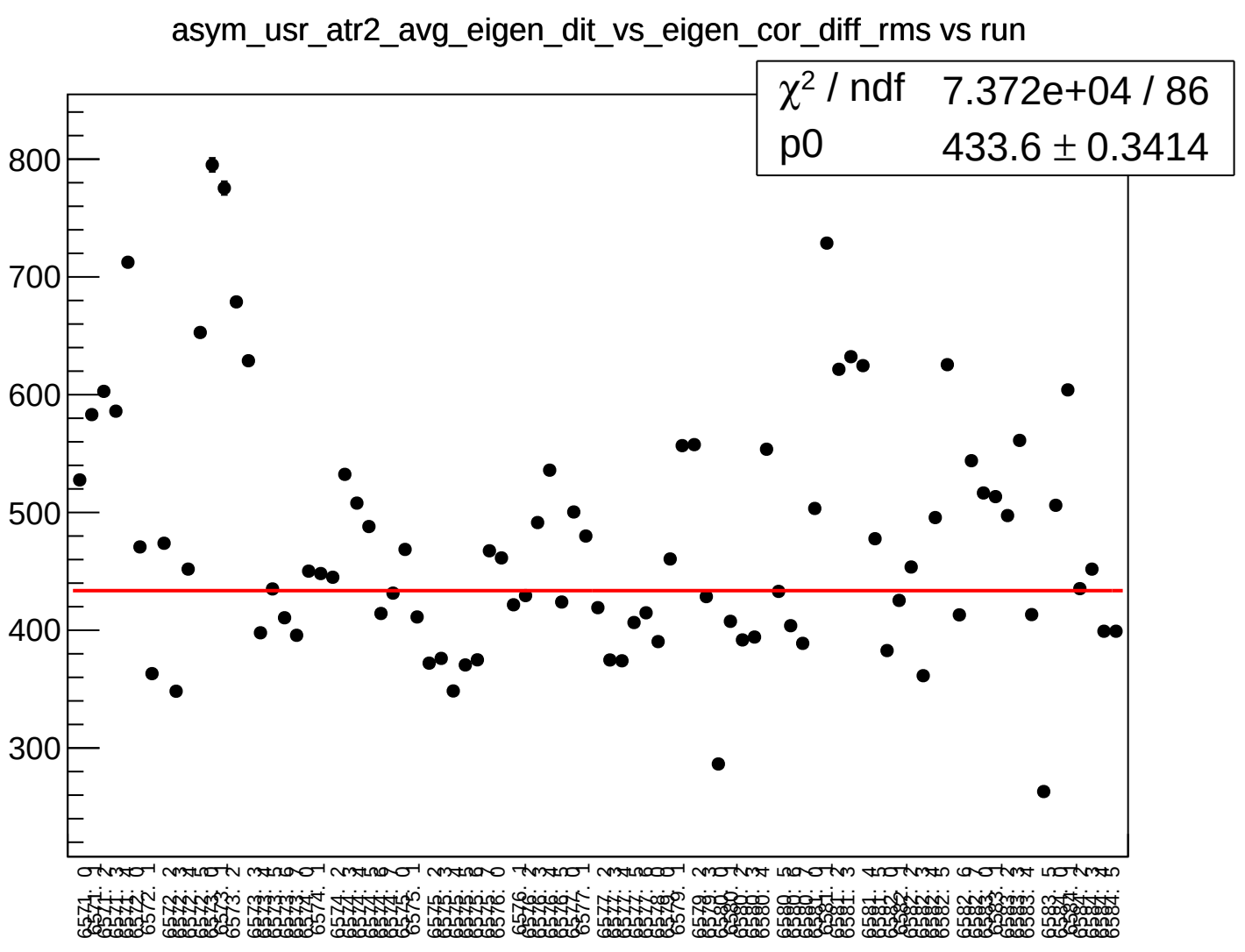

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.35 / 86
p0 0.1824 ± 0.4828
pull
Entries 87
Mean 80.81
Std Dev 44.81

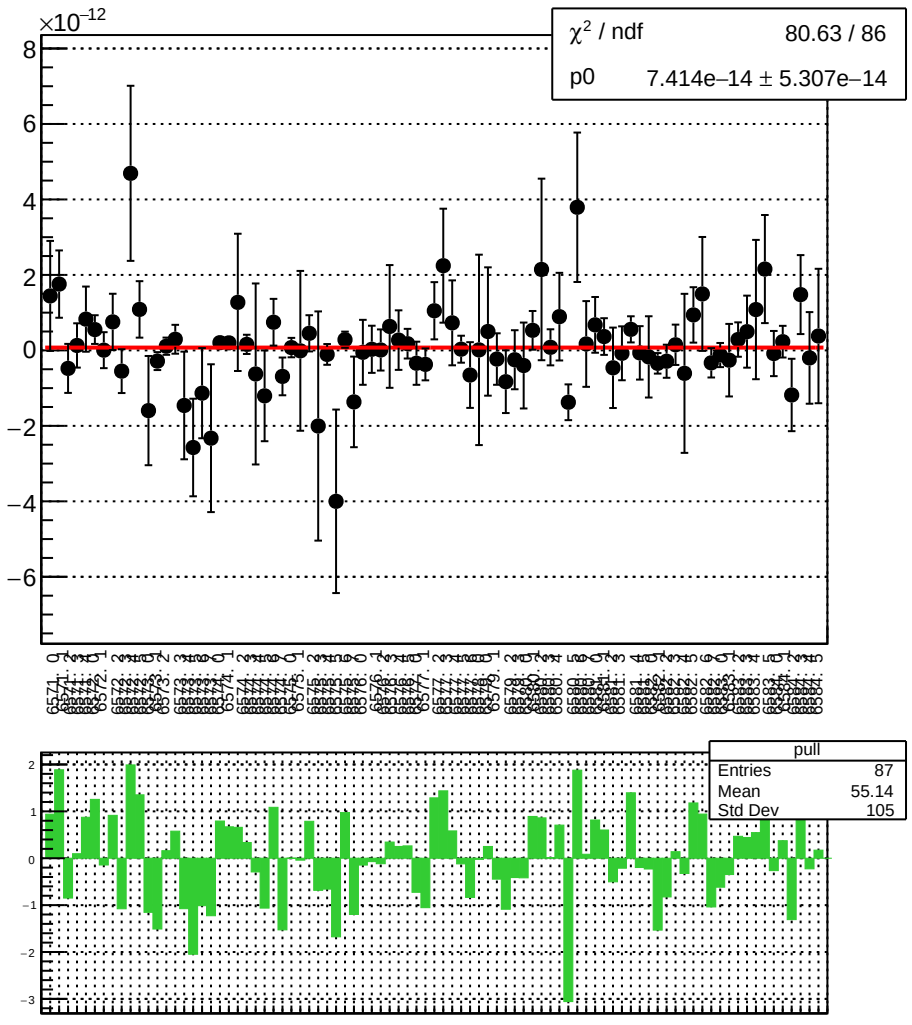

pull1D
Entries 87
Mean 0.04419
Std Dev 1.035

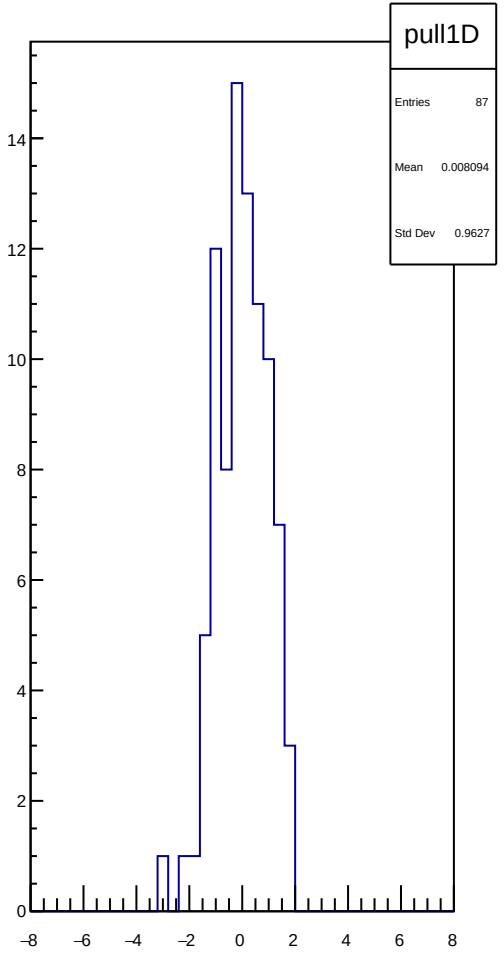

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.372e+04 / 86
p0 433.6 ± 0.3414
800
700
600
500
400
300

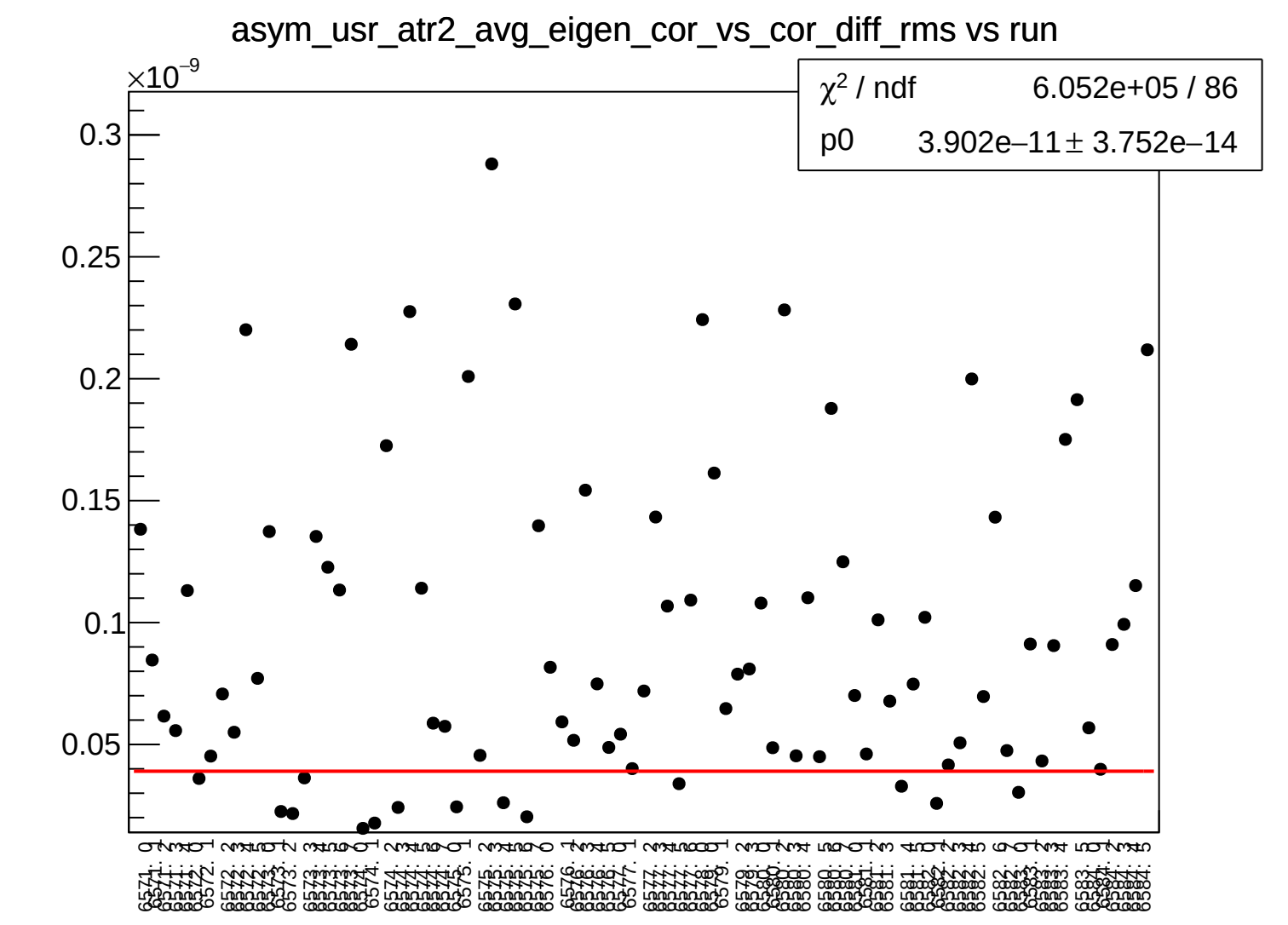

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.35 / 86
p0 0.1824 ± 0.4828
pull
Entries 87
Mean 80.81
Std Dev 44.81

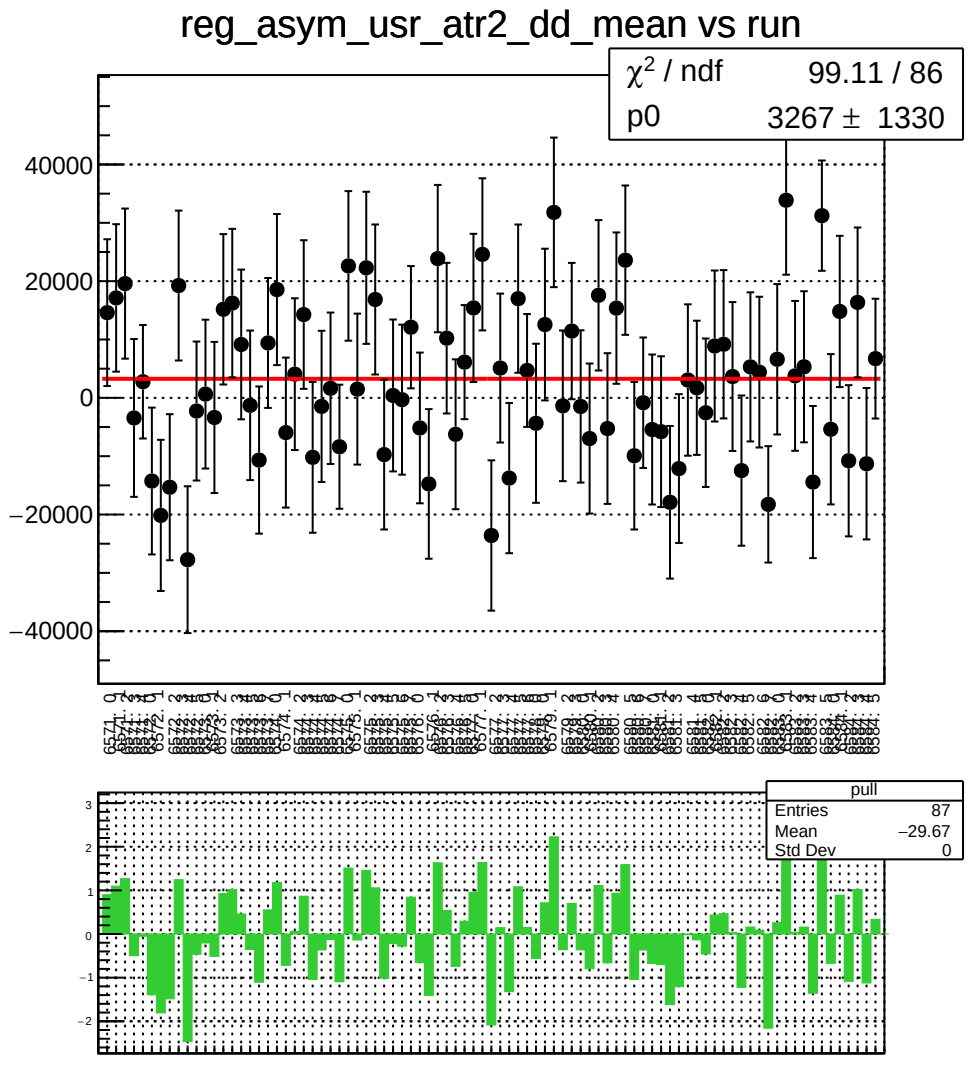

pull1D
Entries 87
Mean 0.04419
Std Dev 1.035

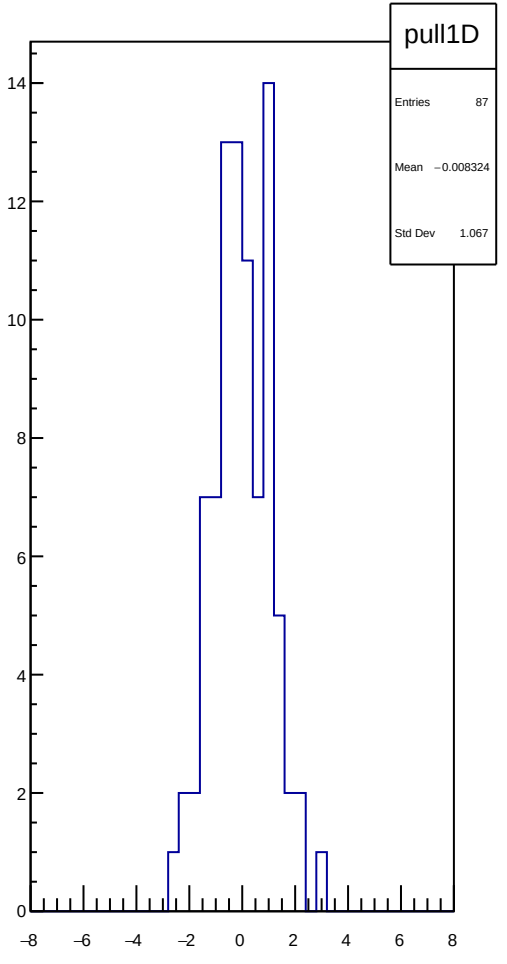

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.372e+04 / 86
p0 433.6 ± 0.3414
800
700
600
500
400
300

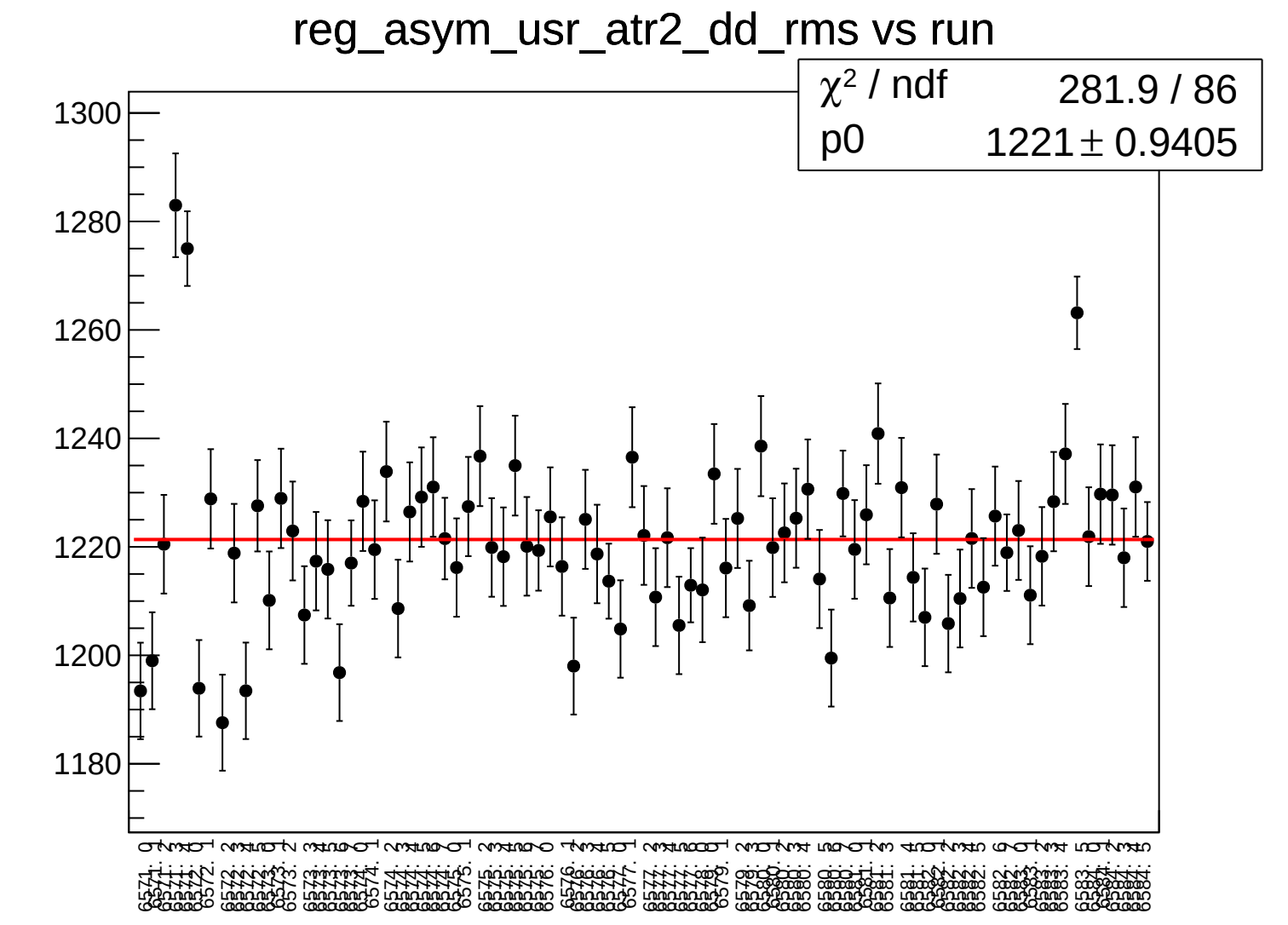

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.63 / 86
p0 7.414e−14 ± 5.307e−14
pull
Entries 87
Mean 55.14
Std Dev 105

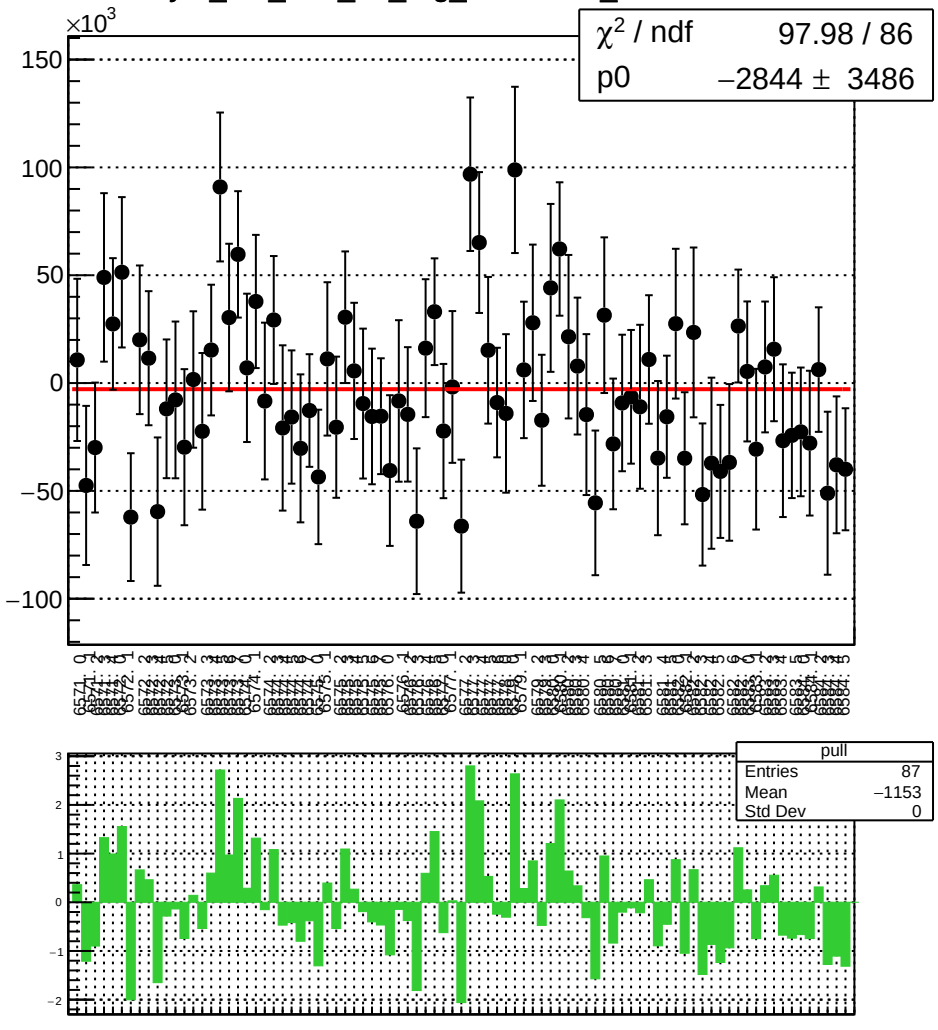

pull1D
Entries 87
Mean 0.008094
Std Dev 0.9627

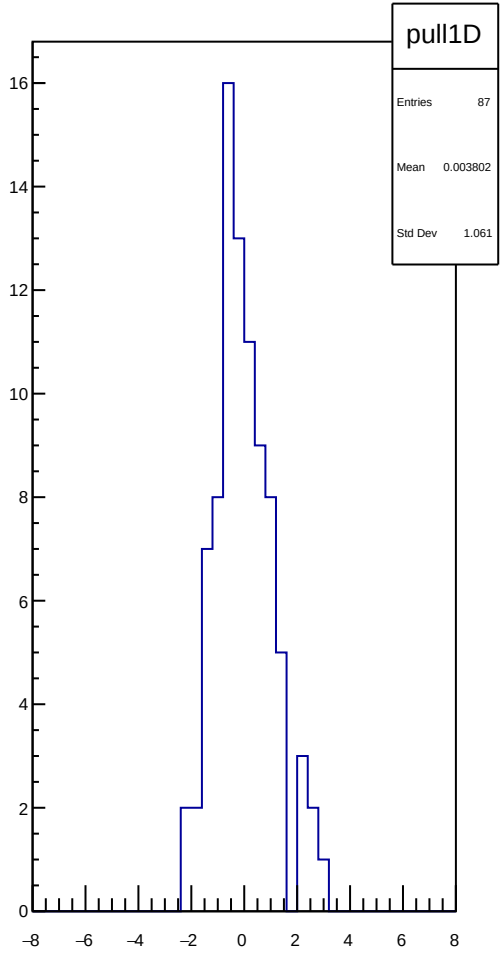

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.052e+05 / 86
p0 3.902e−11 ± 3.752e−14
0.3
0.25
0.2
0.15
0.1
0.05

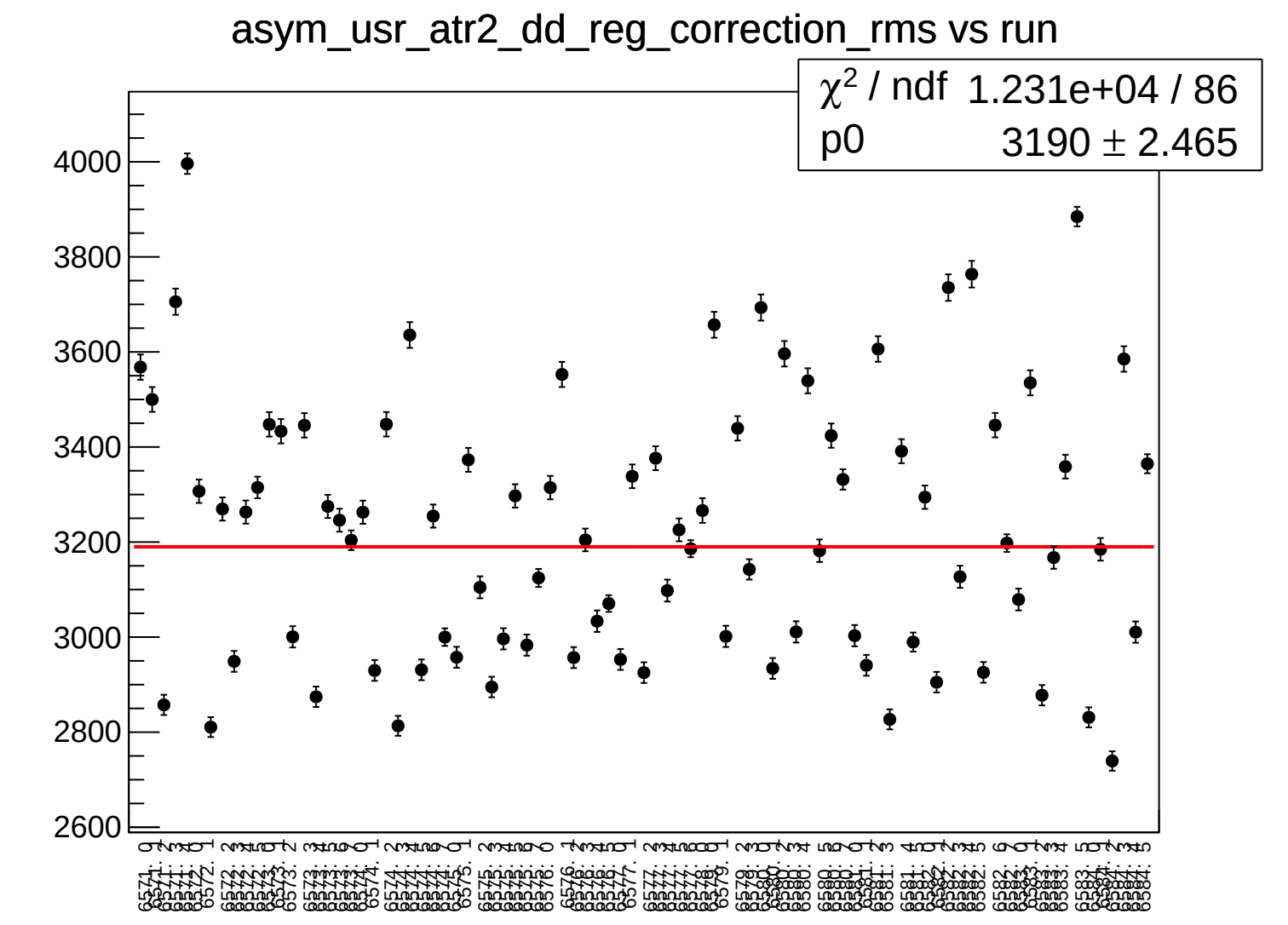

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 99.11 / 86
p0 3267 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −29.67
Std Dev 0
3
2
1
0
−1
−2

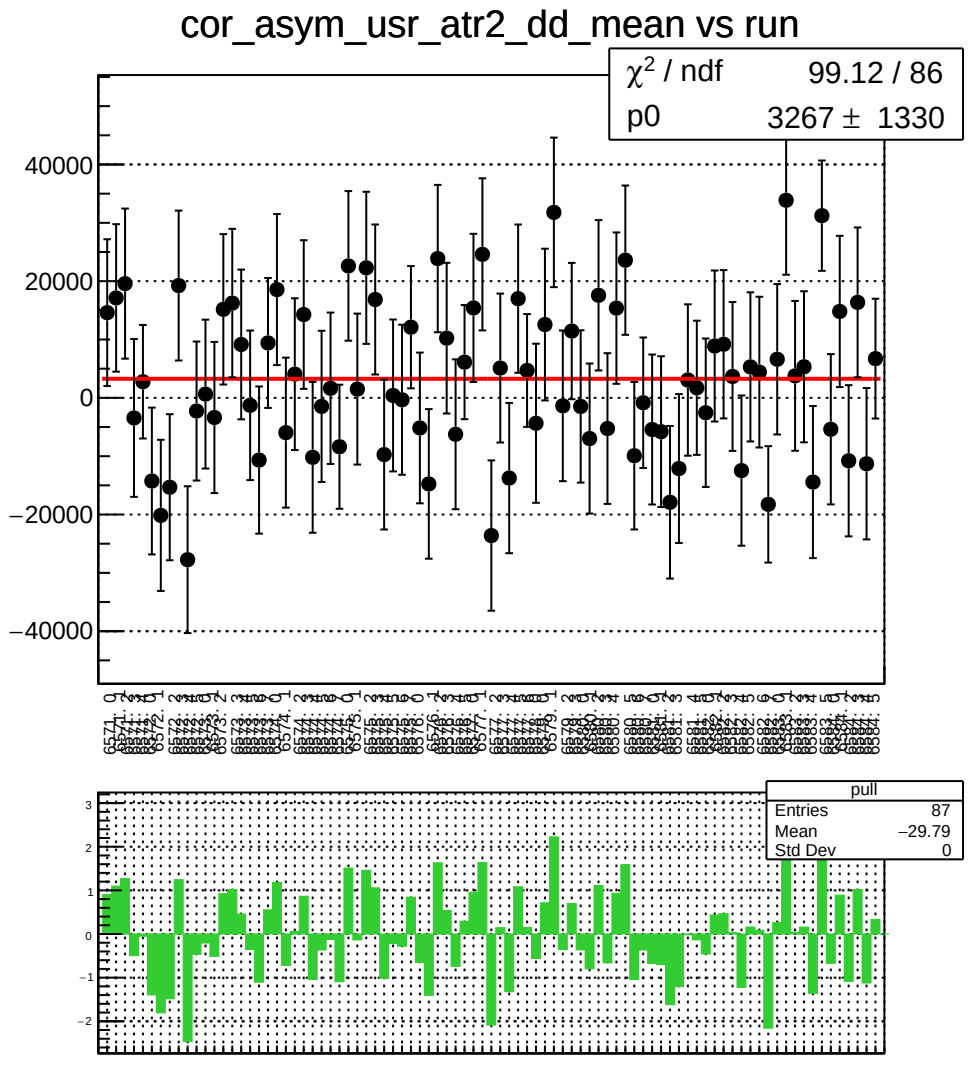

pull1D
Entries 87
Mean −0.008324
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

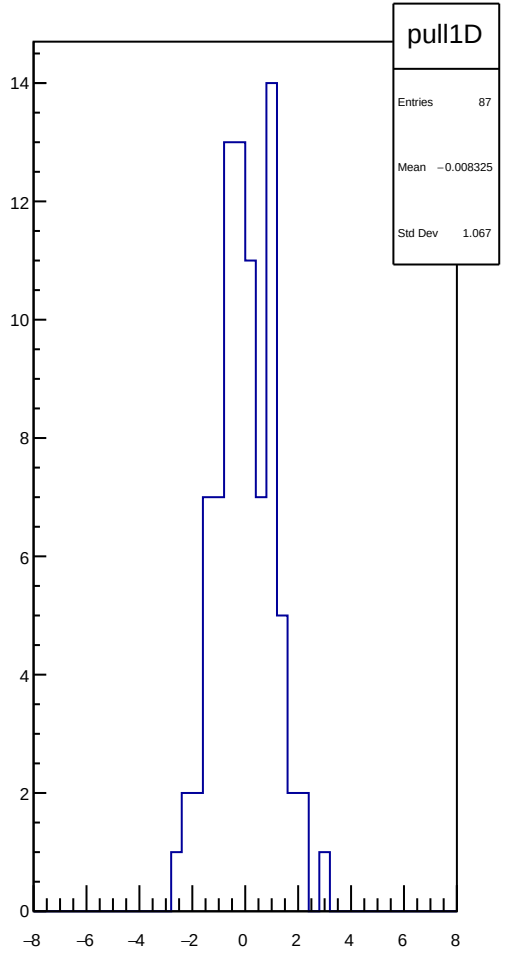

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 281.9 / 86
p0 1221 ± 0.9405
1300
1280
1260
1240
1220
1200
1180

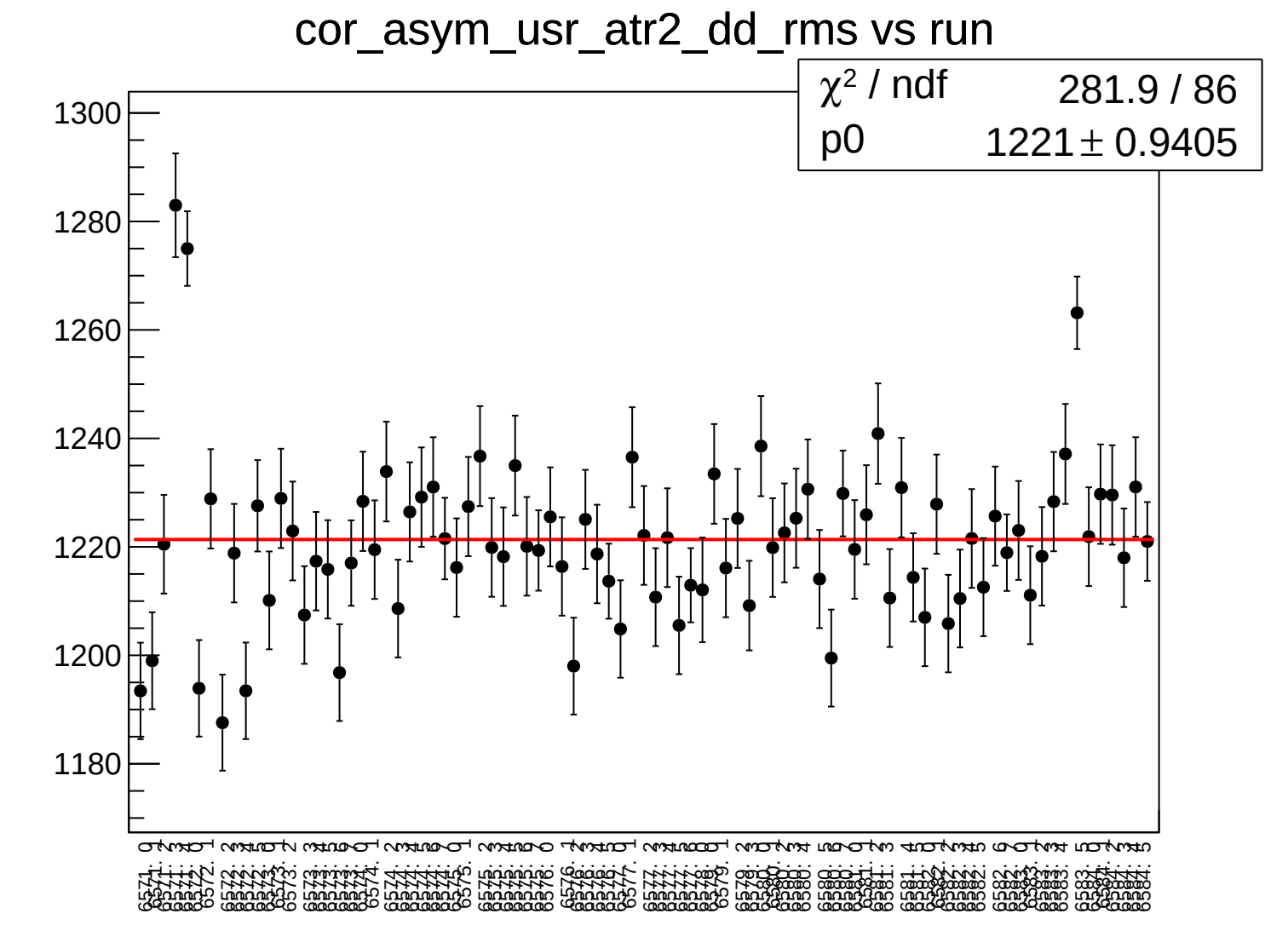

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.98 / 86
p0 −2844 ± 3486
150
100
50
0
−50
−100
pull
Entries 87
Mean −1153
Std Dev 0
3
2
1
0
−1
−2

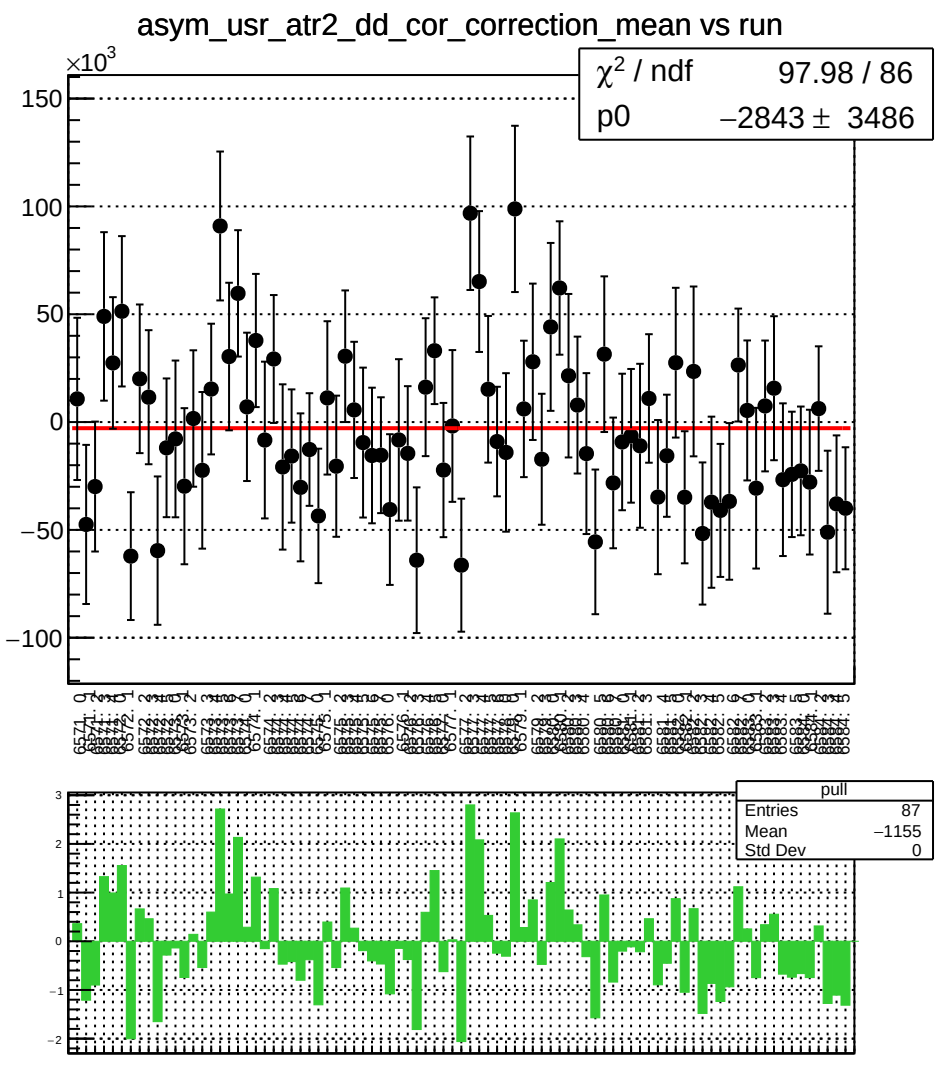

pull1D
Entries 87
Mean 0.003802
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

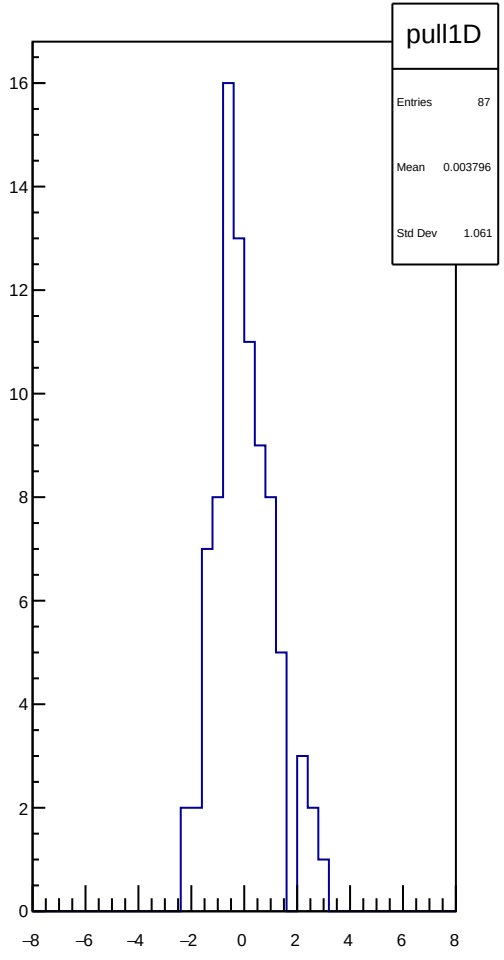

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.231e+04 / 86
p0 3190 ± 2.465
4000
3800
3600
3400
3200
3000
2800
2600

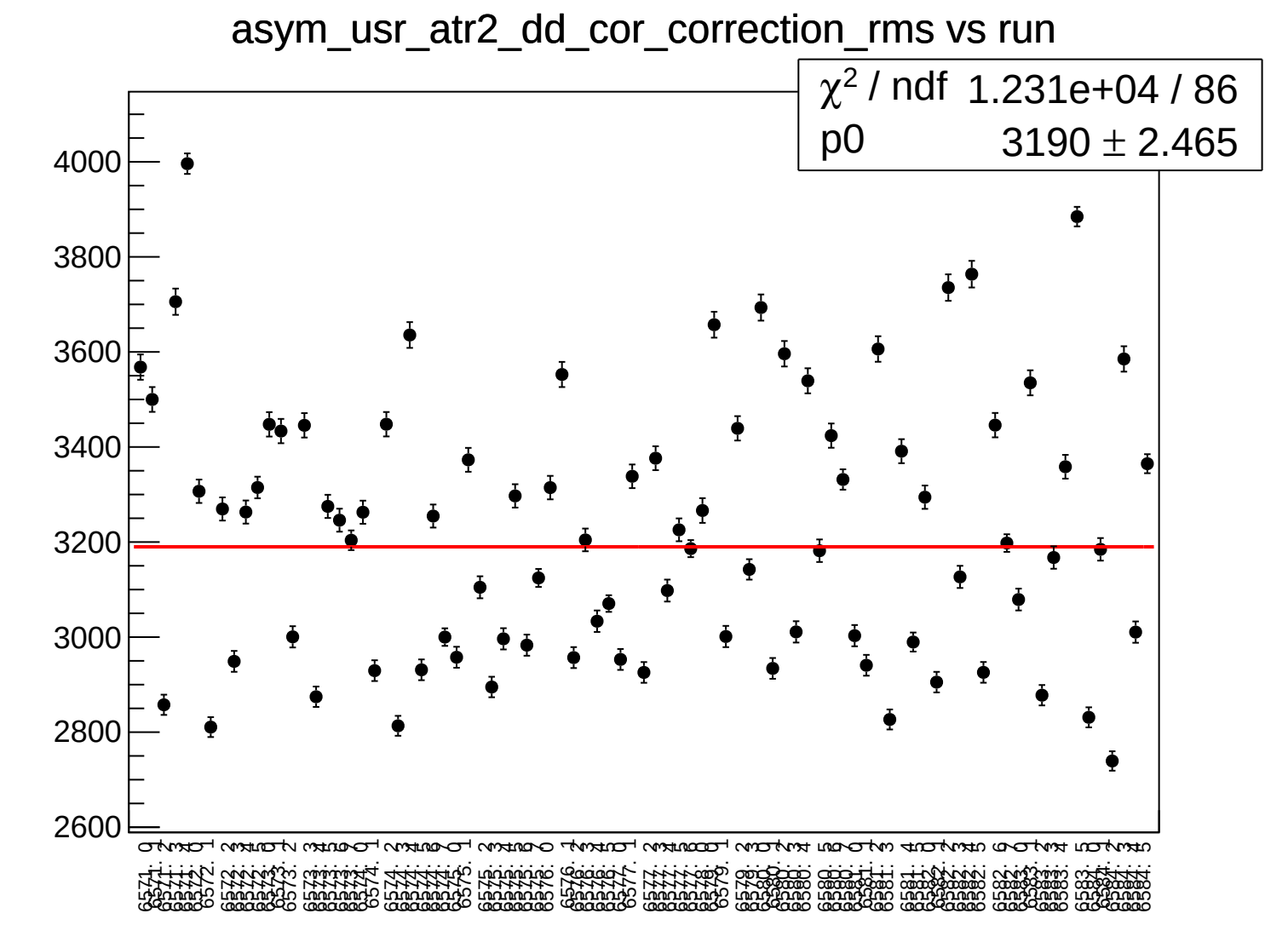

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 99.12 / 86
p0 3267 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −29.79
Std Dev 0
3
2
1
0
−1
−2

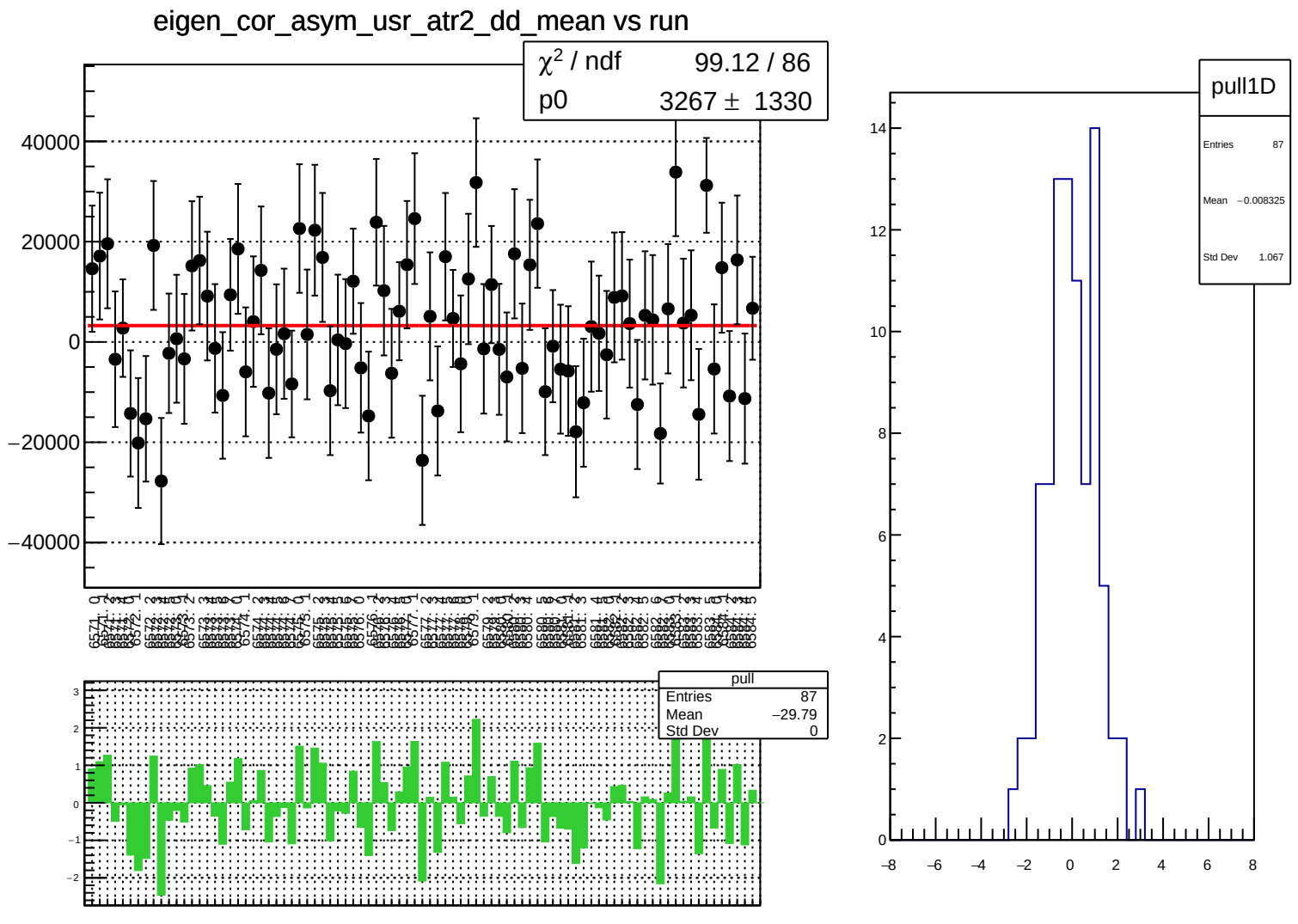

pull1D
Entries 87
Mean −0.008325
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

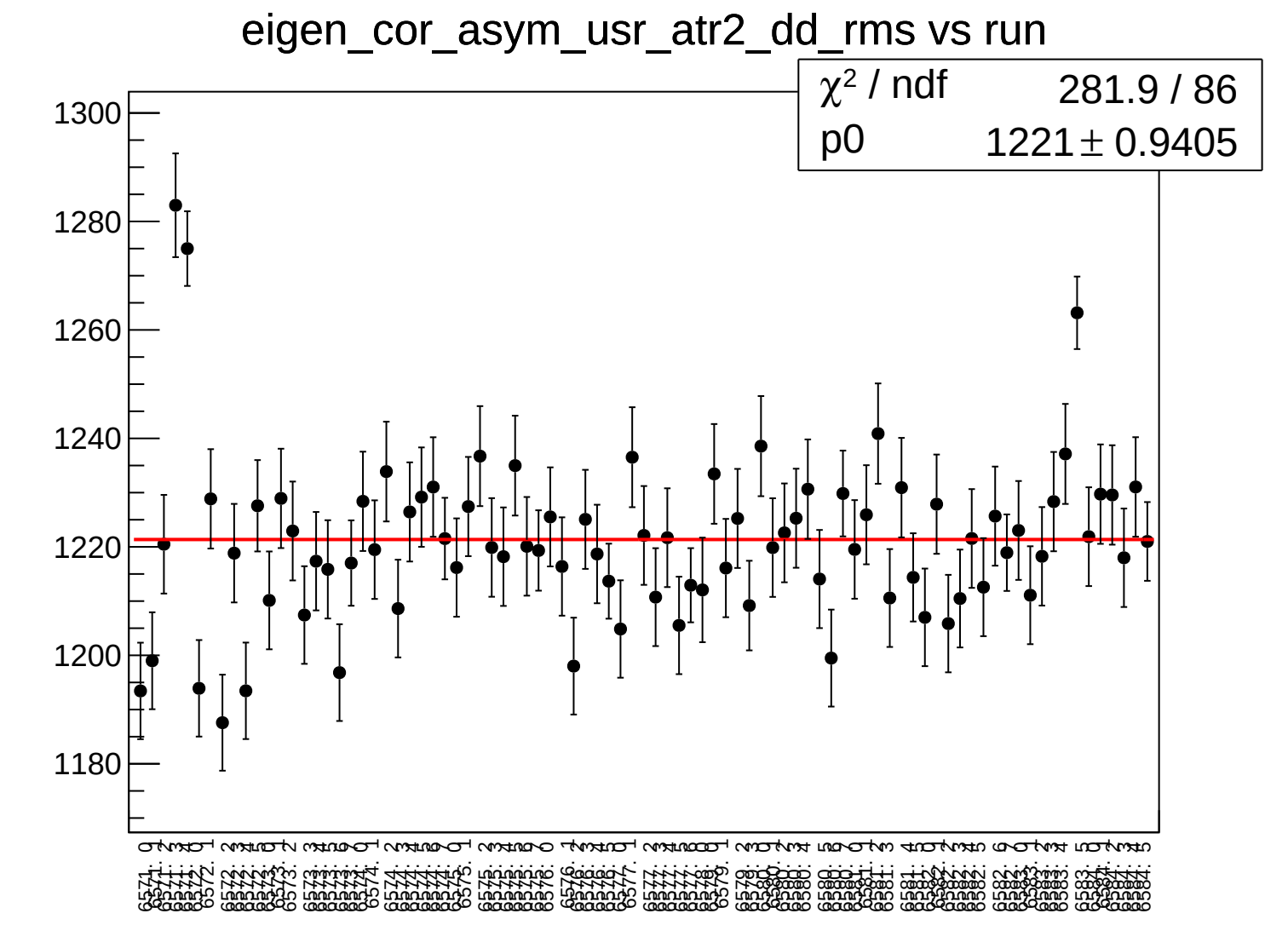

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 281.9 / 86
p0 1221 ± 0.9405
1300
1280
1260
1240
1220
1200
1180

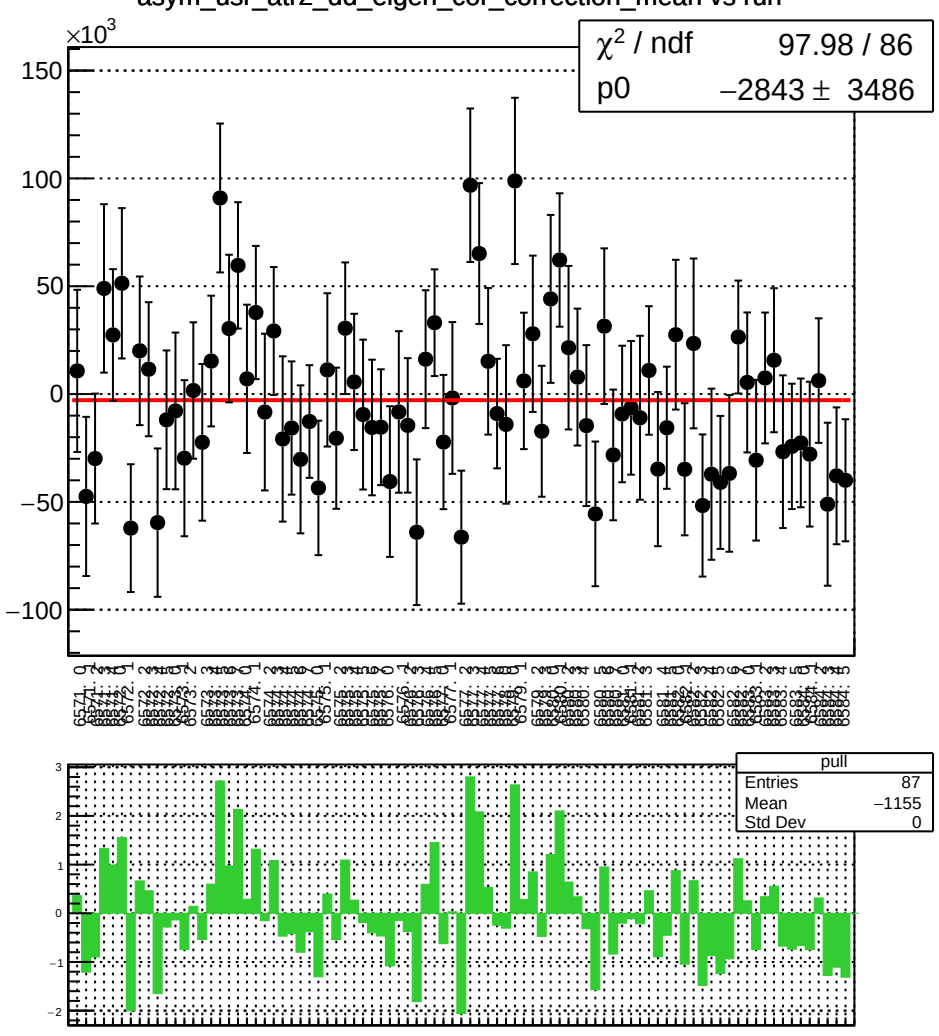

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.98 / 86
p0 −2843 ± 3486
150
100
50
0
−50
−100
pull
Entries 87
Mean −1155
Std Dev 0
3
2
1
0
−1
−2

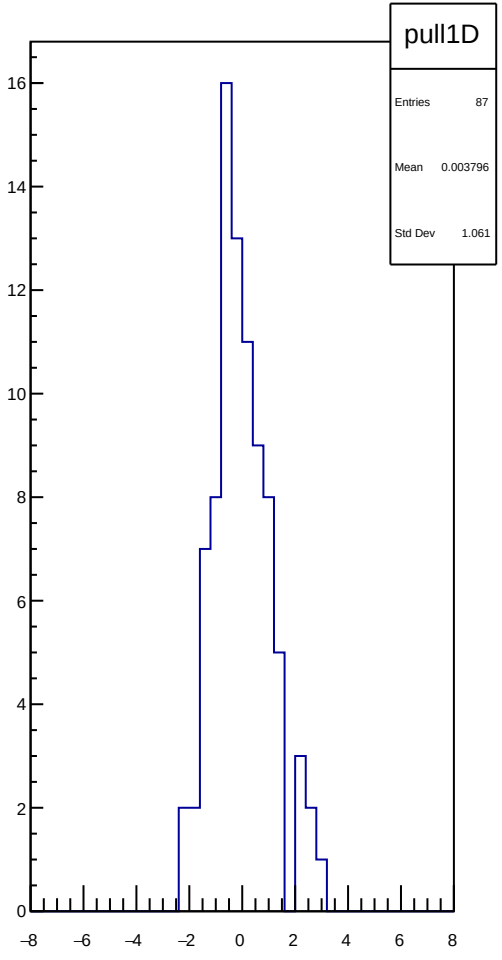

pull1D
Entries 87
Mean 0.003796
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

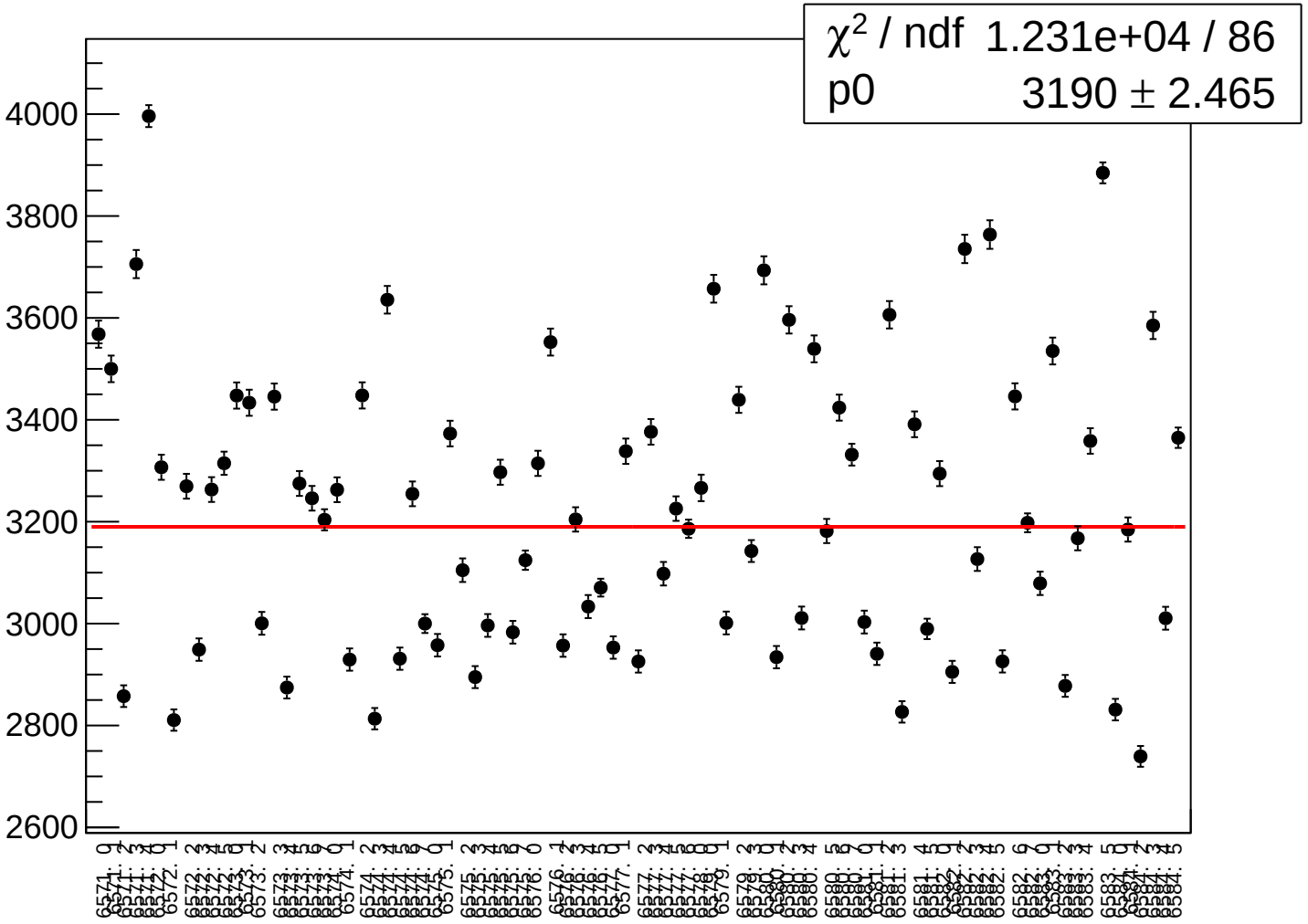

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.231e+04 / 86
p0 3190 ± 2.465
4000
3800
3600
3400
3200
3000
2800
2600

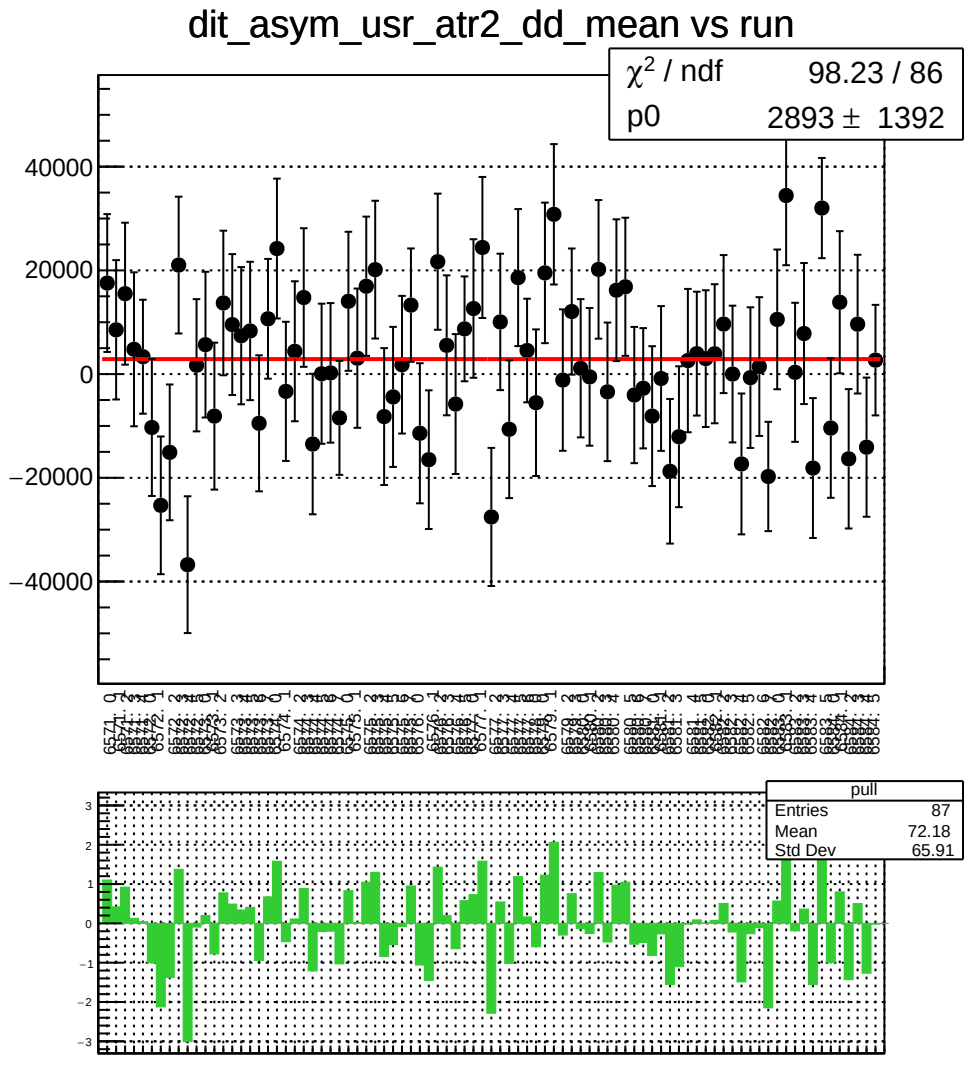

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 99.12 / 86
p0 3267 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −29.79
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.008325
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

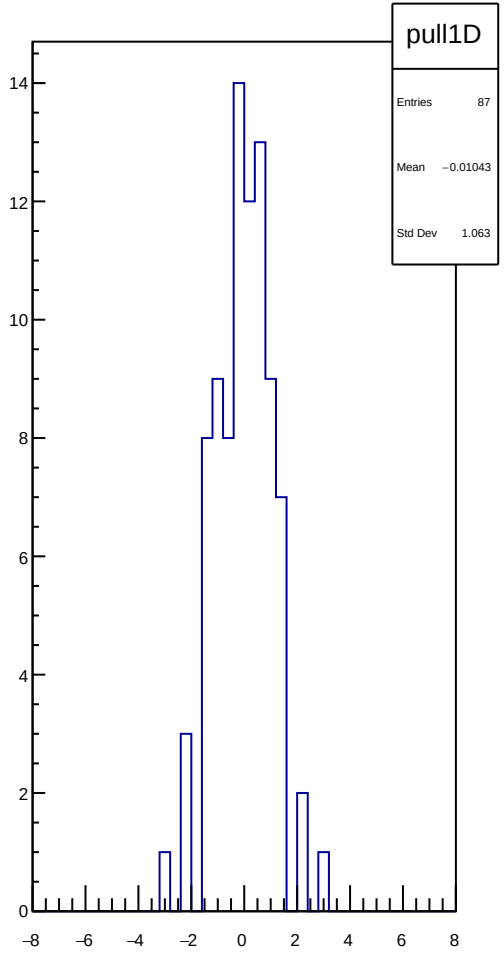

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 281.9 / 86
p0 1221 ± 0.9405
1300
1280
1260
1240
1220
1200
1180

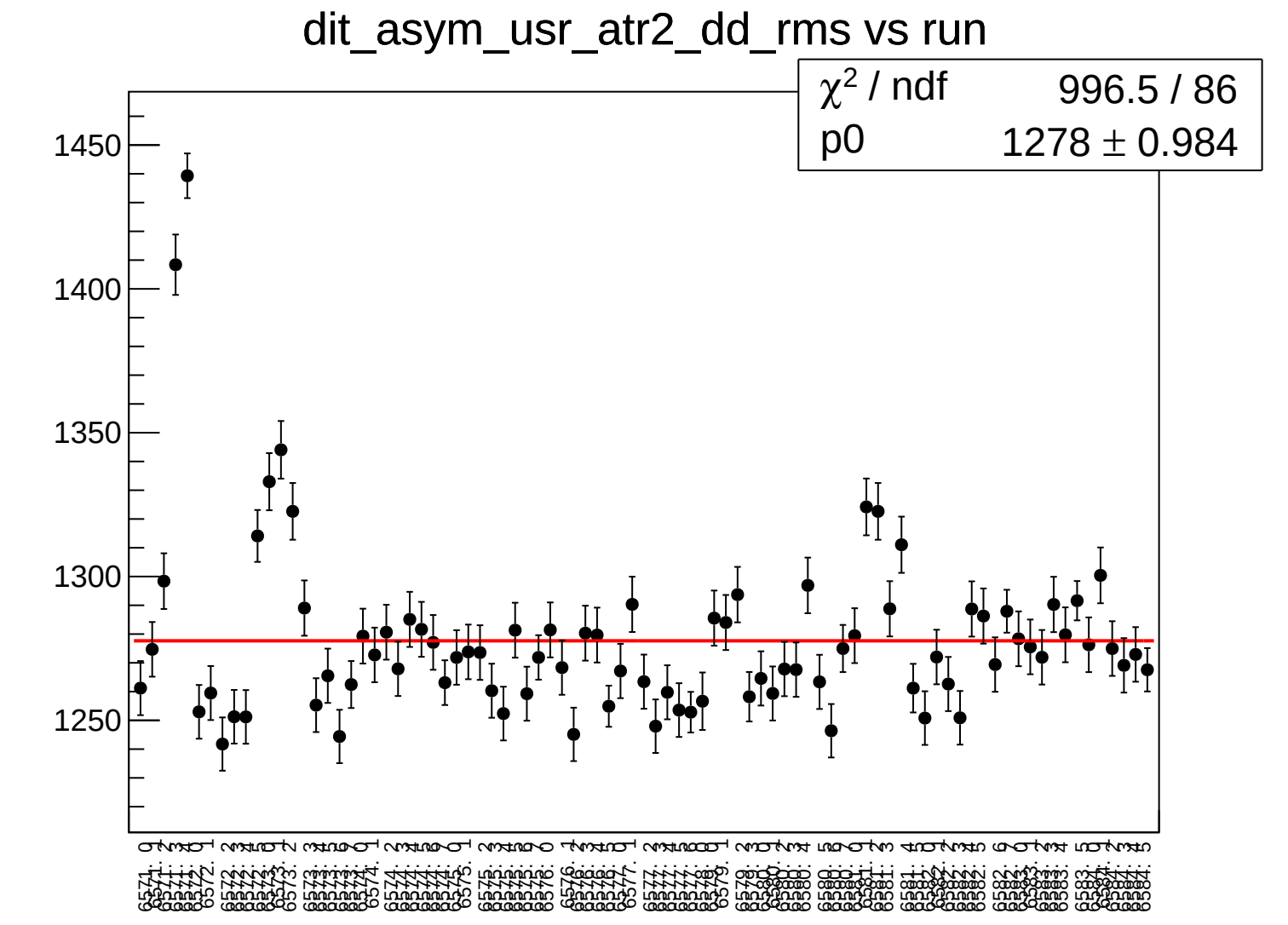

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.98 / 86
p0 −2843 ± 3486
150
100
50
0
−50
−100
pull
Entries 87
Mean −1155
Std Dev 0
3
2
1
0
−1
−2

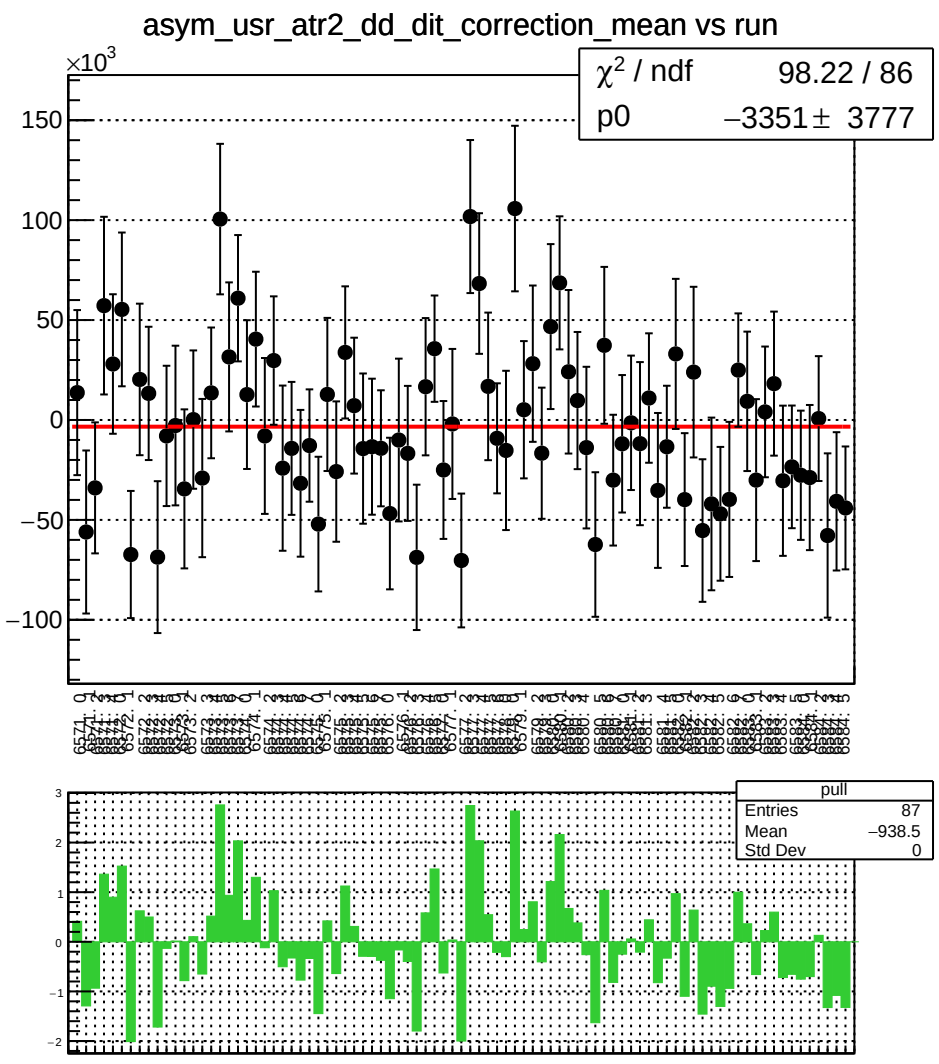

pull1D
Entries 87
Mean 0.003796
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

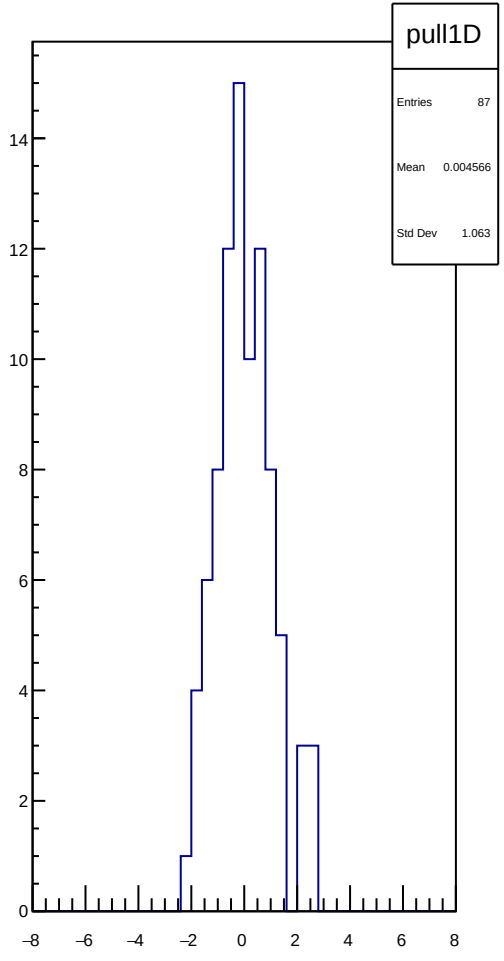

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.231e+04 / 86
p0 3190 ± 2.465
4000
3800
3600
3400
3200
3000
2800
2600

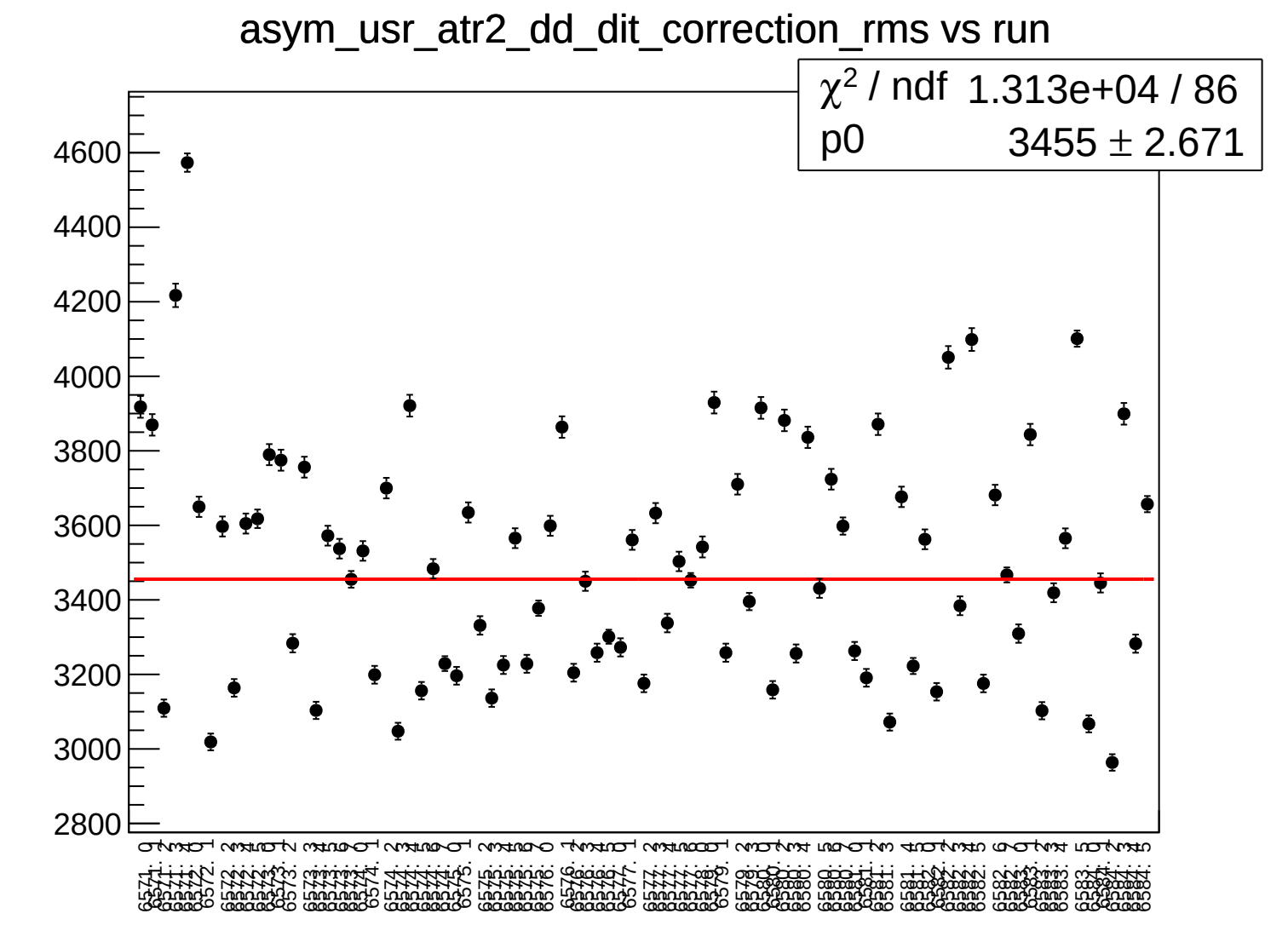

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 98.23 / 86
p0 2893 ± 1392
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 72.18
Std Dev 65.91
3
2
1
0
−1
−2
−3

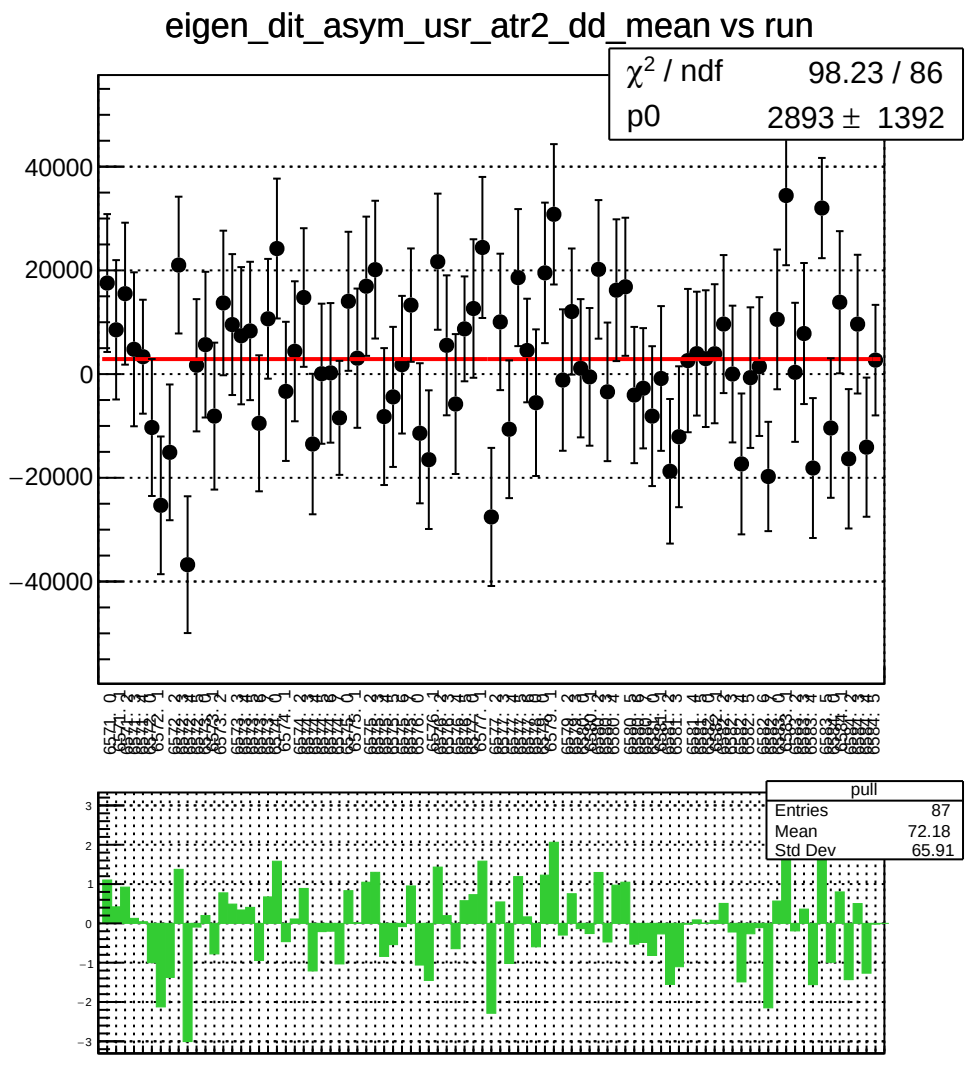

pull1D
Entries 87
Mean −0.01043
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

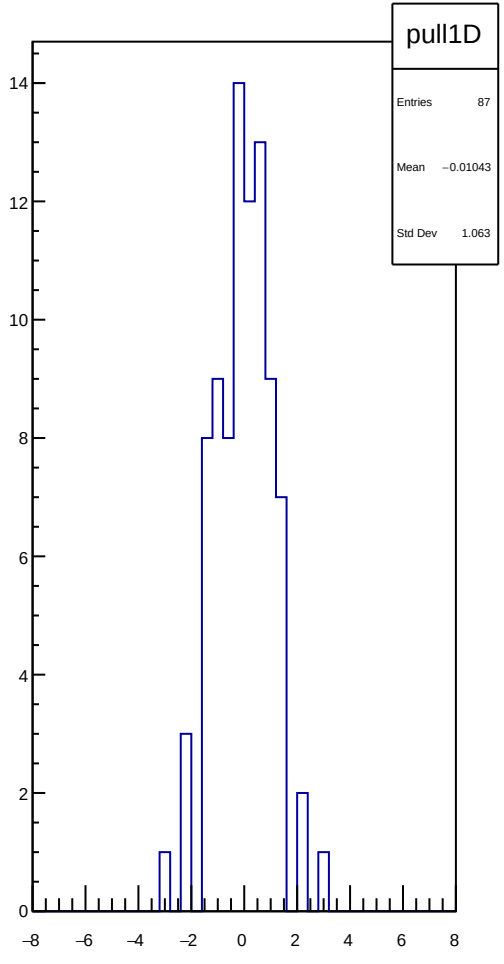

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 996.5 / 86
p0 1278 ± 0.984
1450
1400
1350
1300
1250

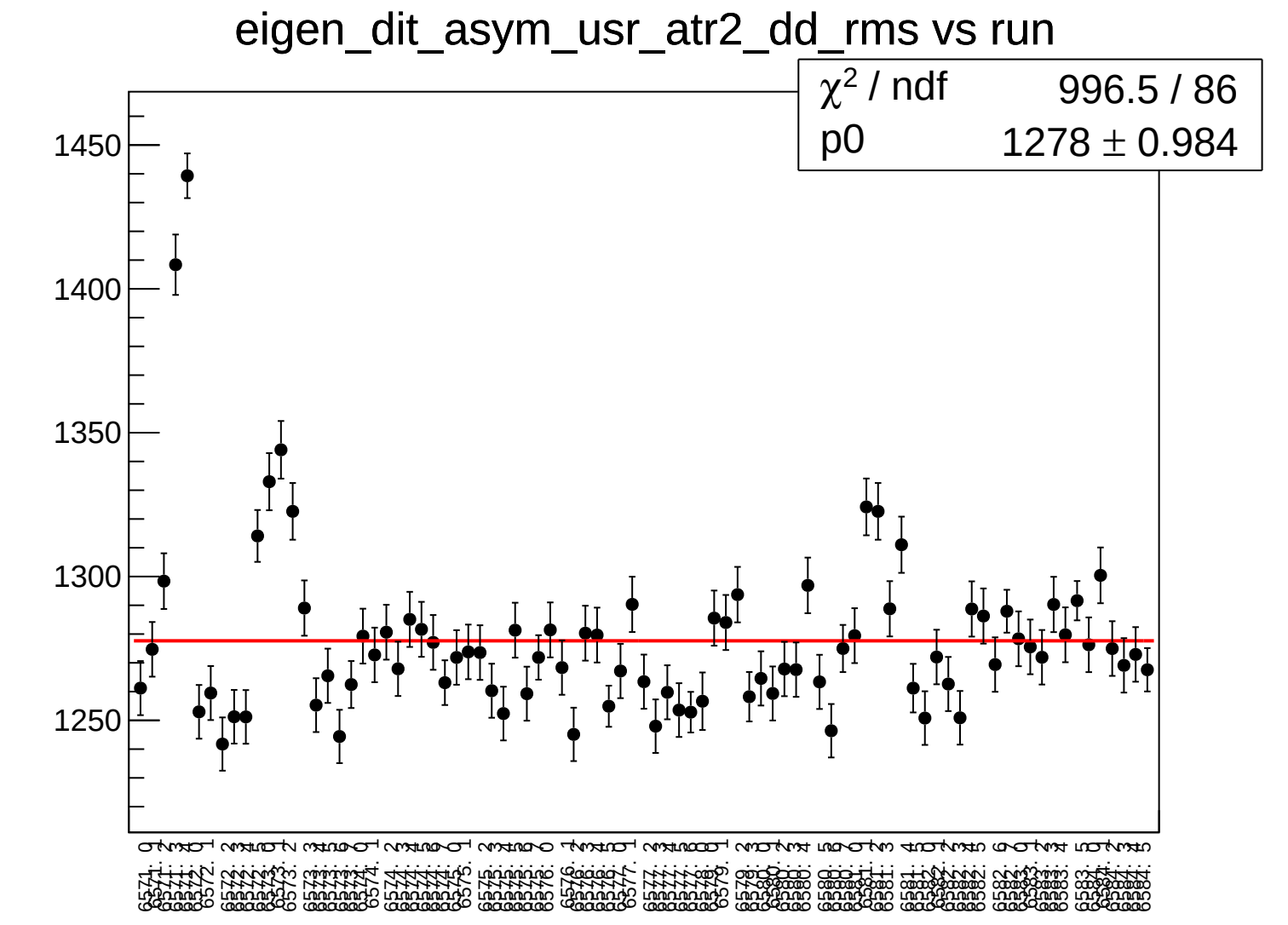

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 98.22 / 86
p0 −3351 ± 3777
150
100
50
0
−50
−100
pull
Entries 87
Mean −938.5
Std Dev 0
3
2
1
0
−1
−2

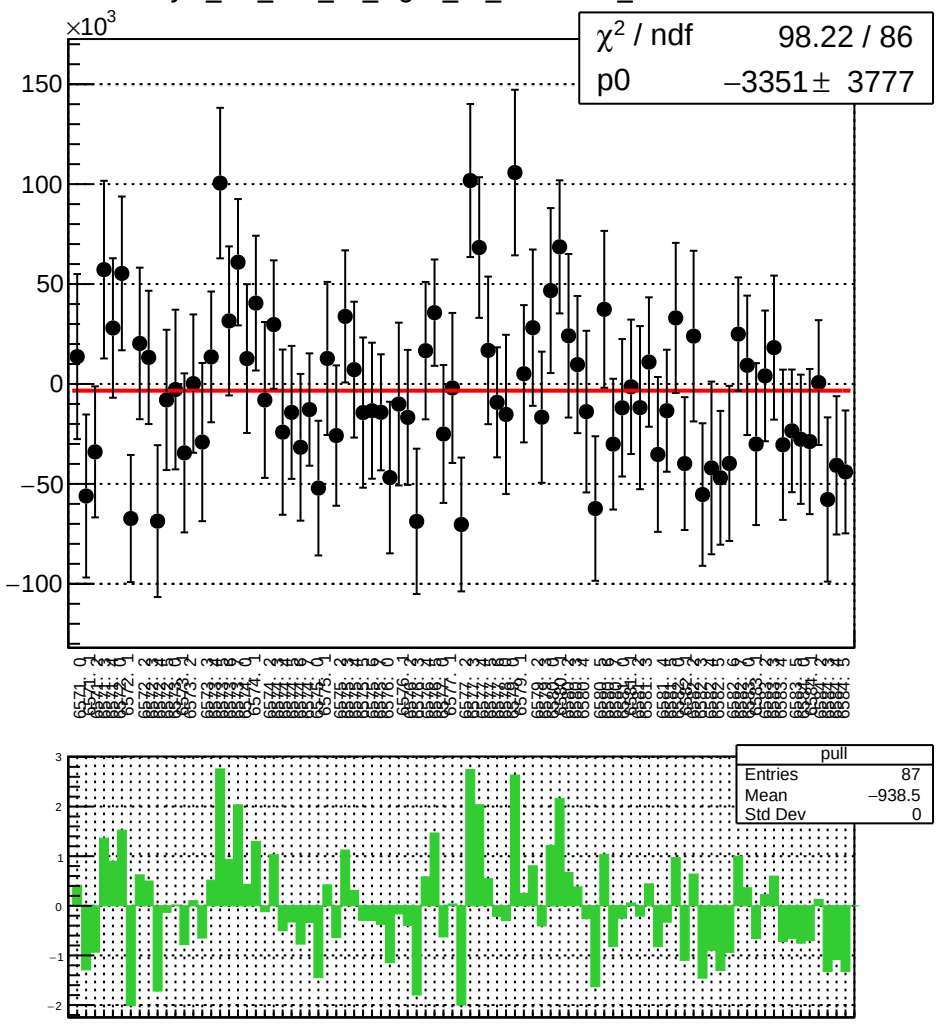

pull1D
Entries 87
Mean 0.004566
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

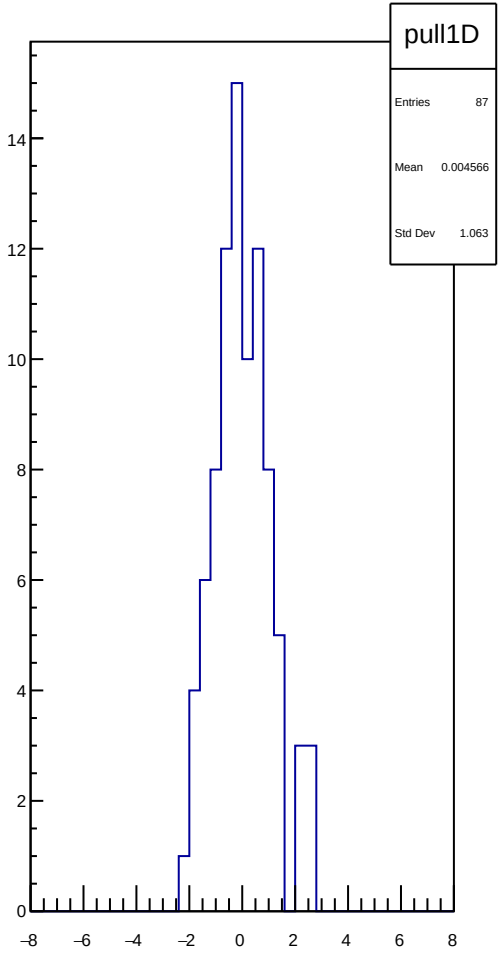

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.313e+04 / 86
p0 3455 ± 2.671
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

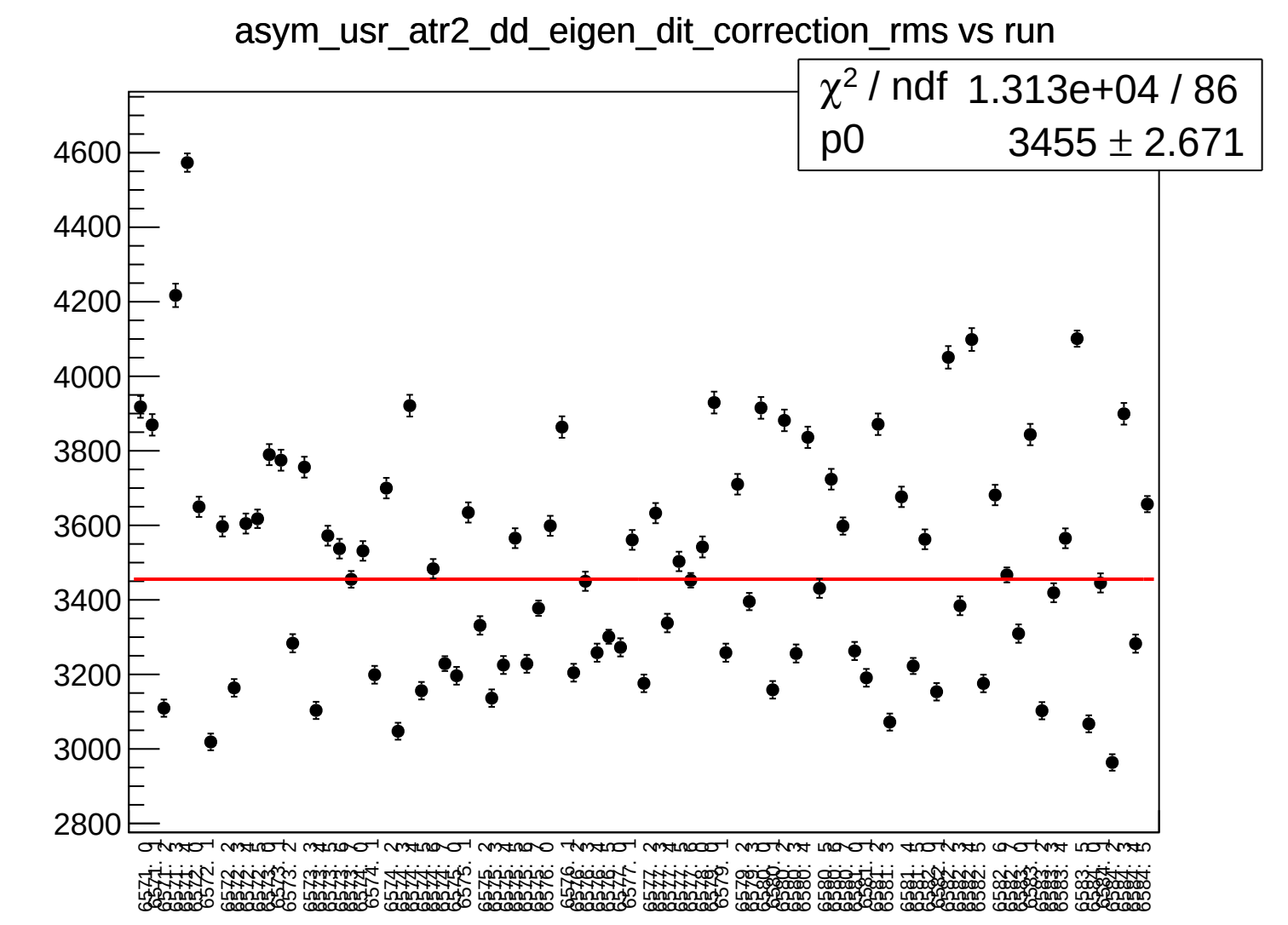

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 98.23 / 86
p0 2893 ± 1392
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 72.18
Std Dev 65.91
3
2
1
0
−1
−2
−3

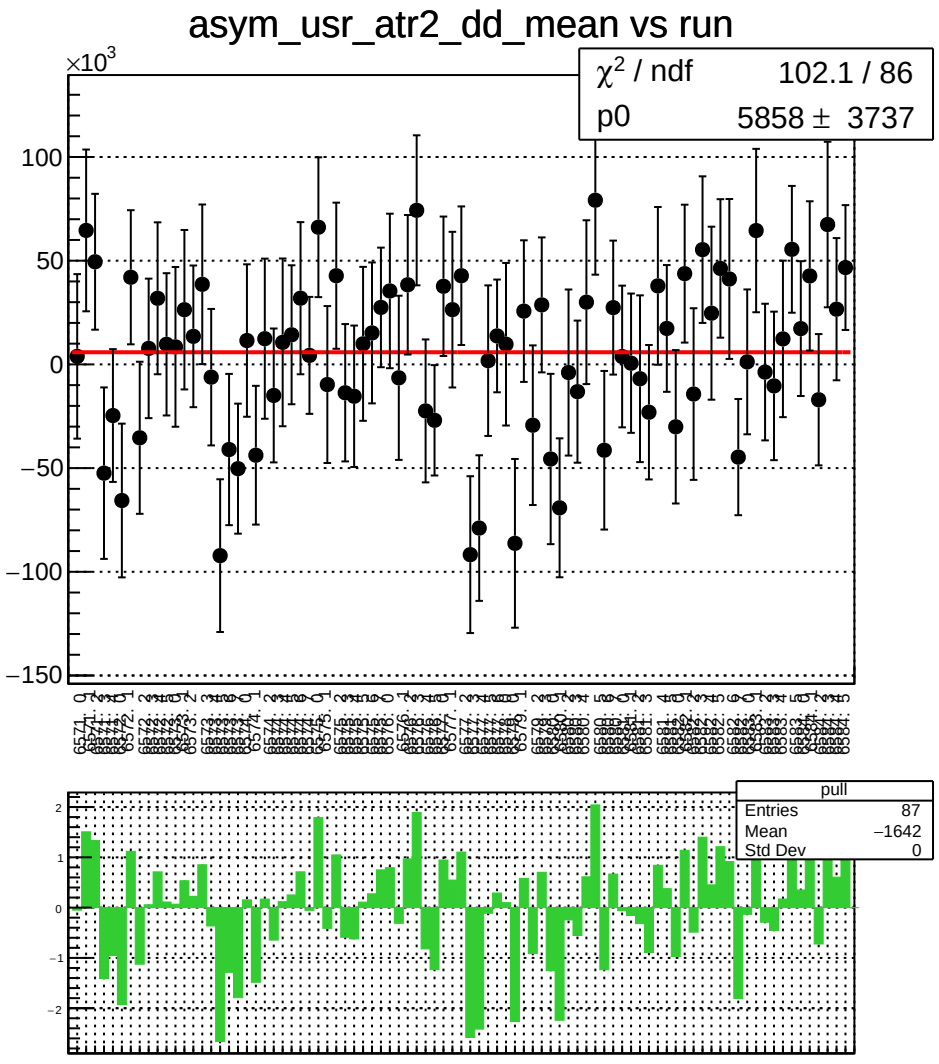

pull1D
Entries 87
Mean −0.01043
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

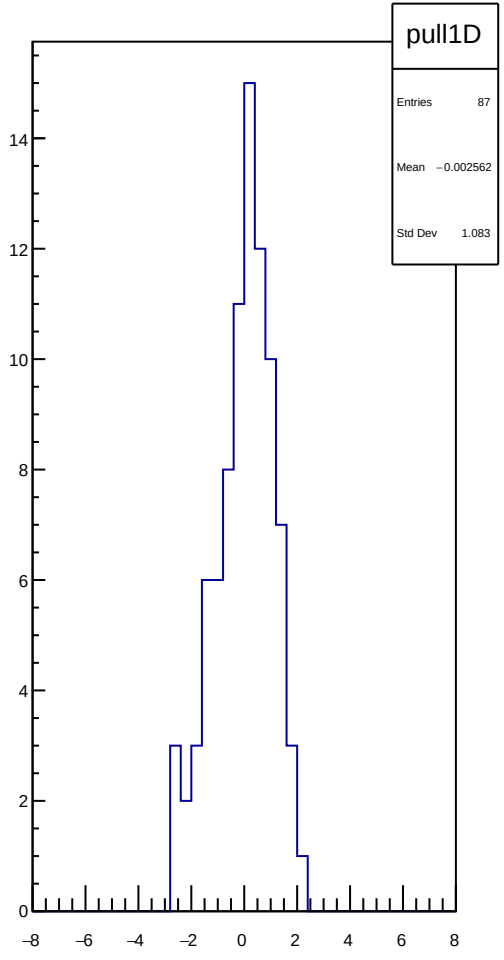

eigen_dit_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 996.5 / 86
p0 1278 ± 0.984
1450
1400
1350
1300
1250

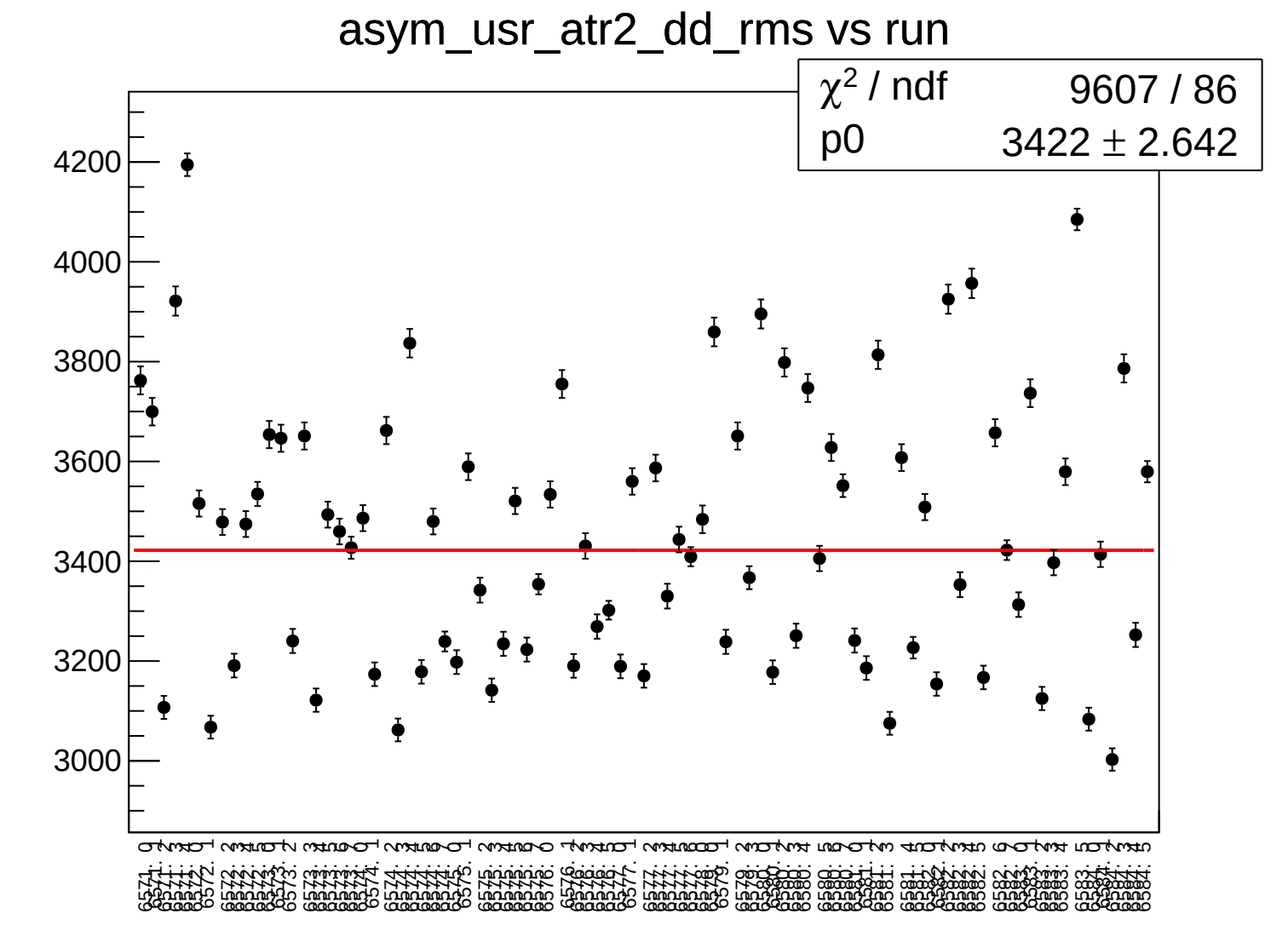

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.22 / 86
p0 −3351 ± 3777
×10³
150
100
50
0
−50
−100
pull
Entries 87
Mean −938.5
Std Dev 0
3
2
1
0
−1
−2

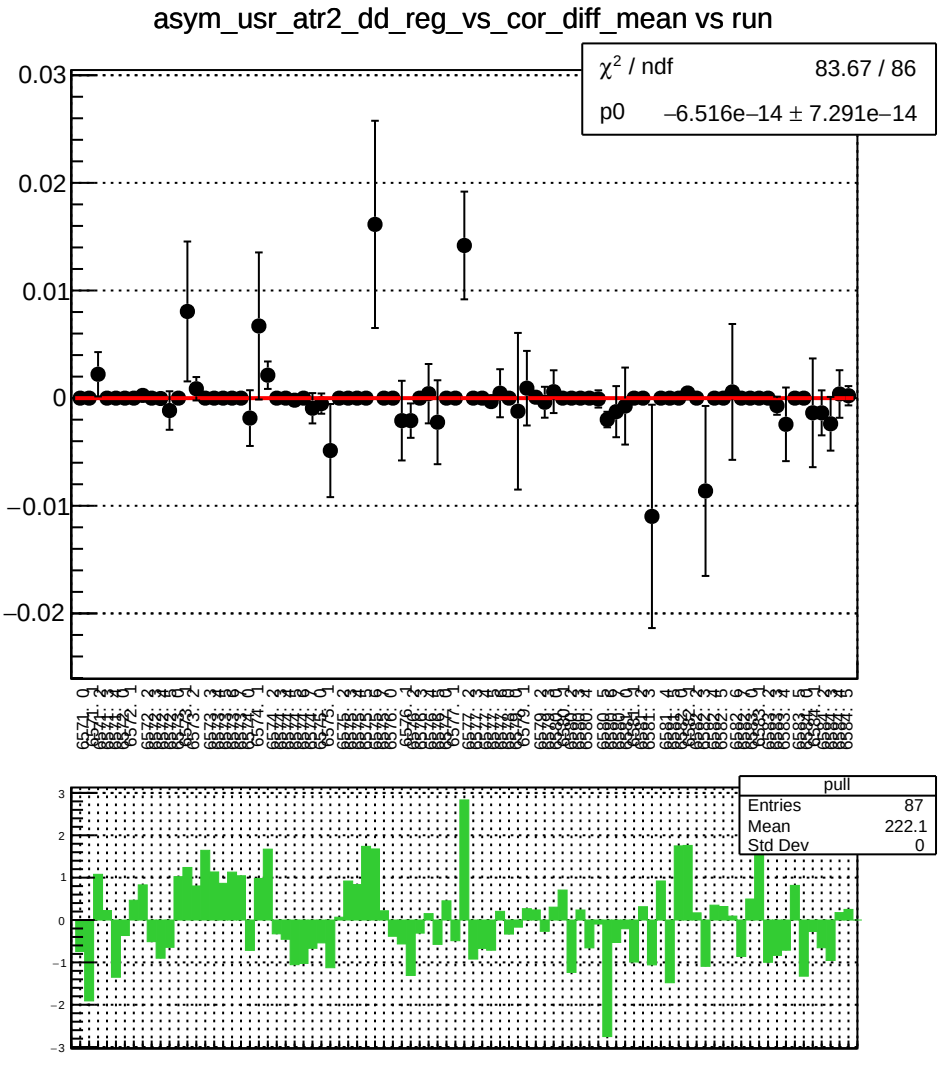

pull1D
Entries 87
Mean 0.004566
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

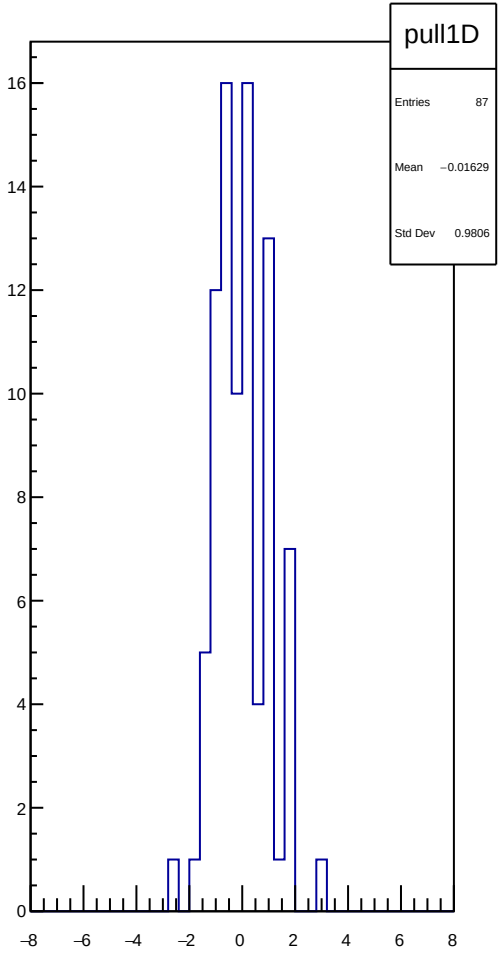

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.313e+04 / 86
p0 3455 ± 2.671
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

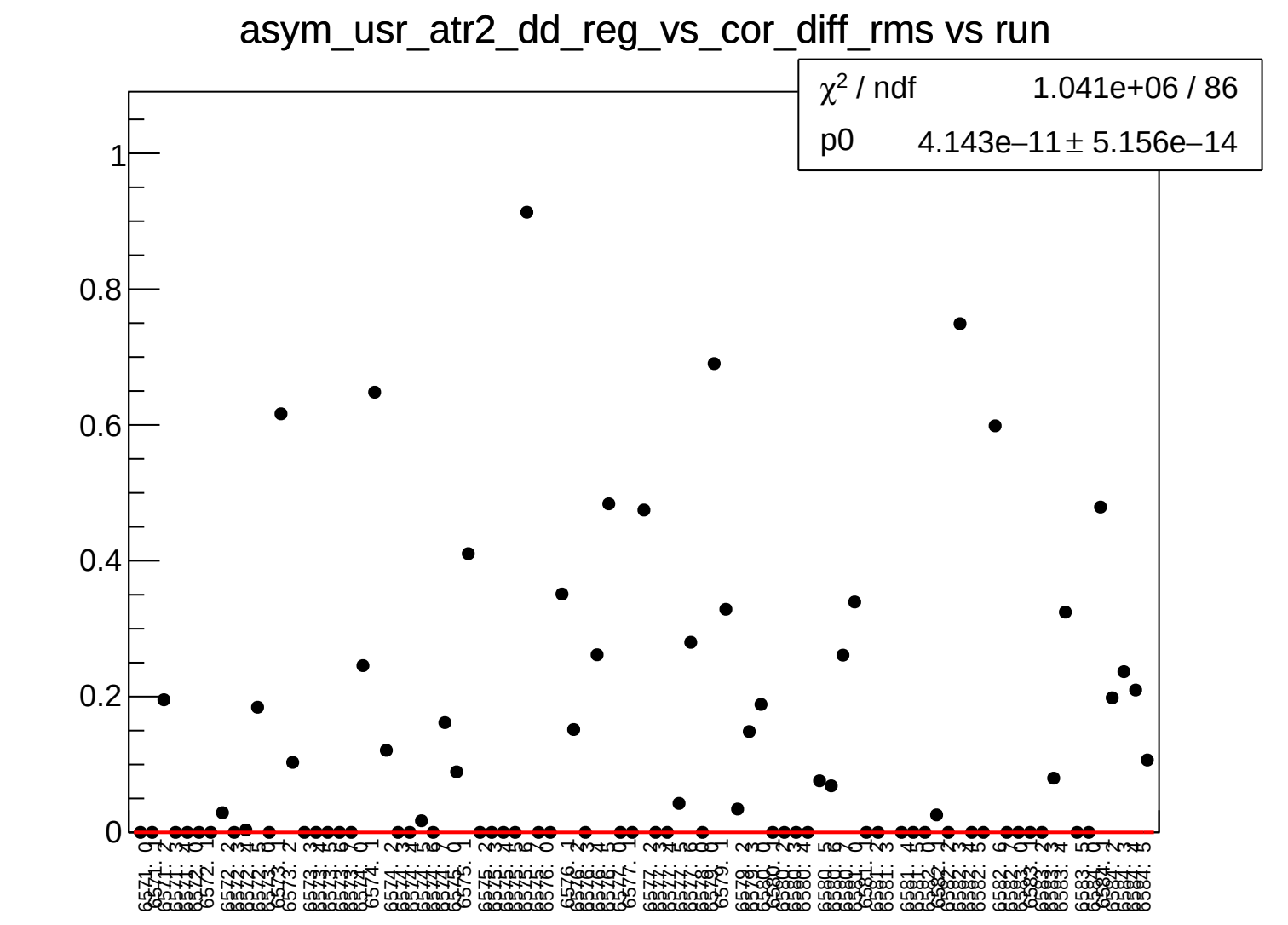

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 102.1 / 86
p0 5858 ± 3737
100
50
0
−50
−100
−150
pull
Entries 87
Mean −1642
Std Dev 0
2
1
0
−1
−2

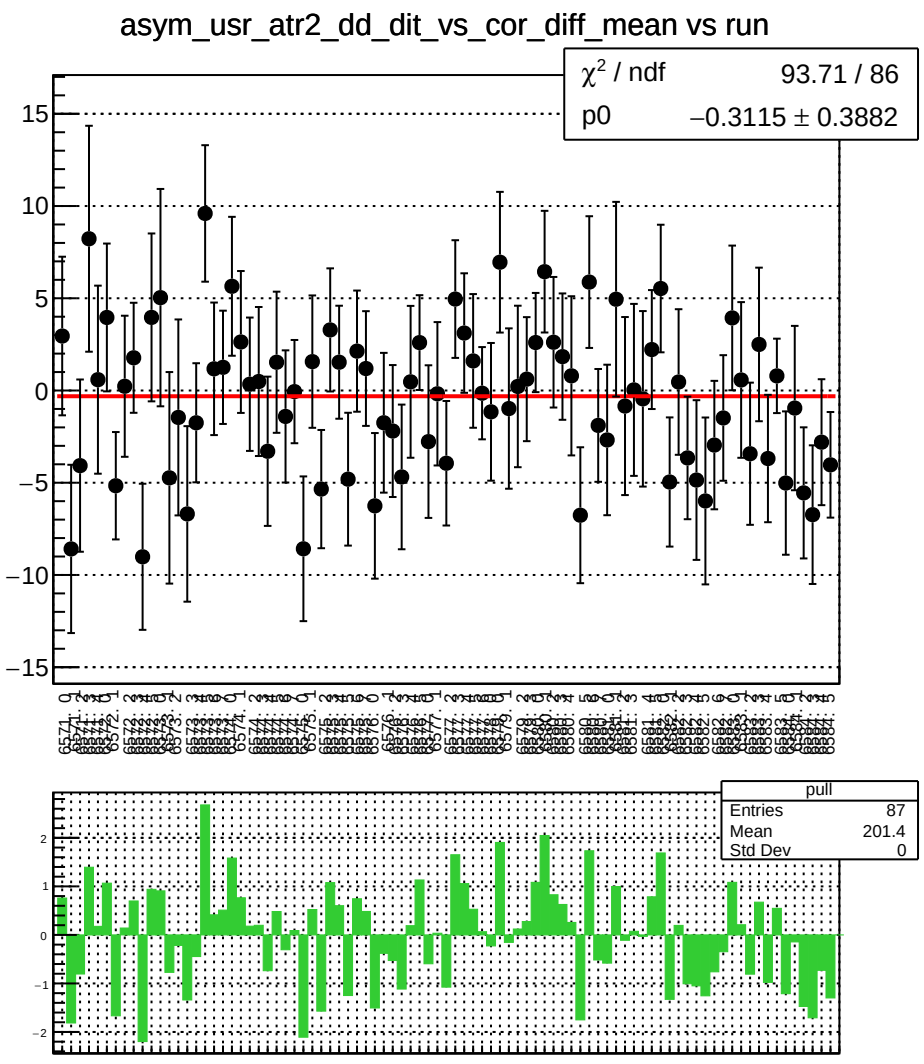

pull1D
Entries 87
Mean −0.002562
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

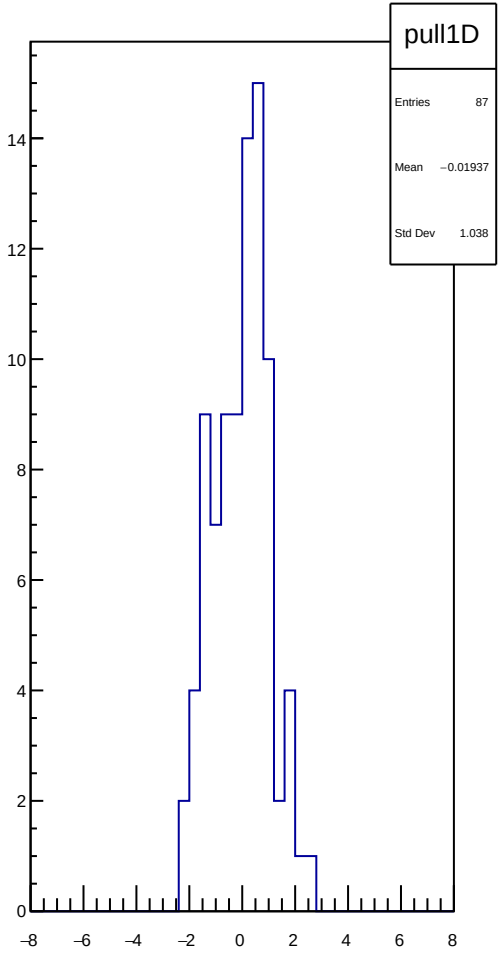

asym_usr_atr2_dd_rms vs run
χ² / ndf 9607 / 86
p0 3422 ± 2.642
4200
4000
3800
3600
3400
3200
3000

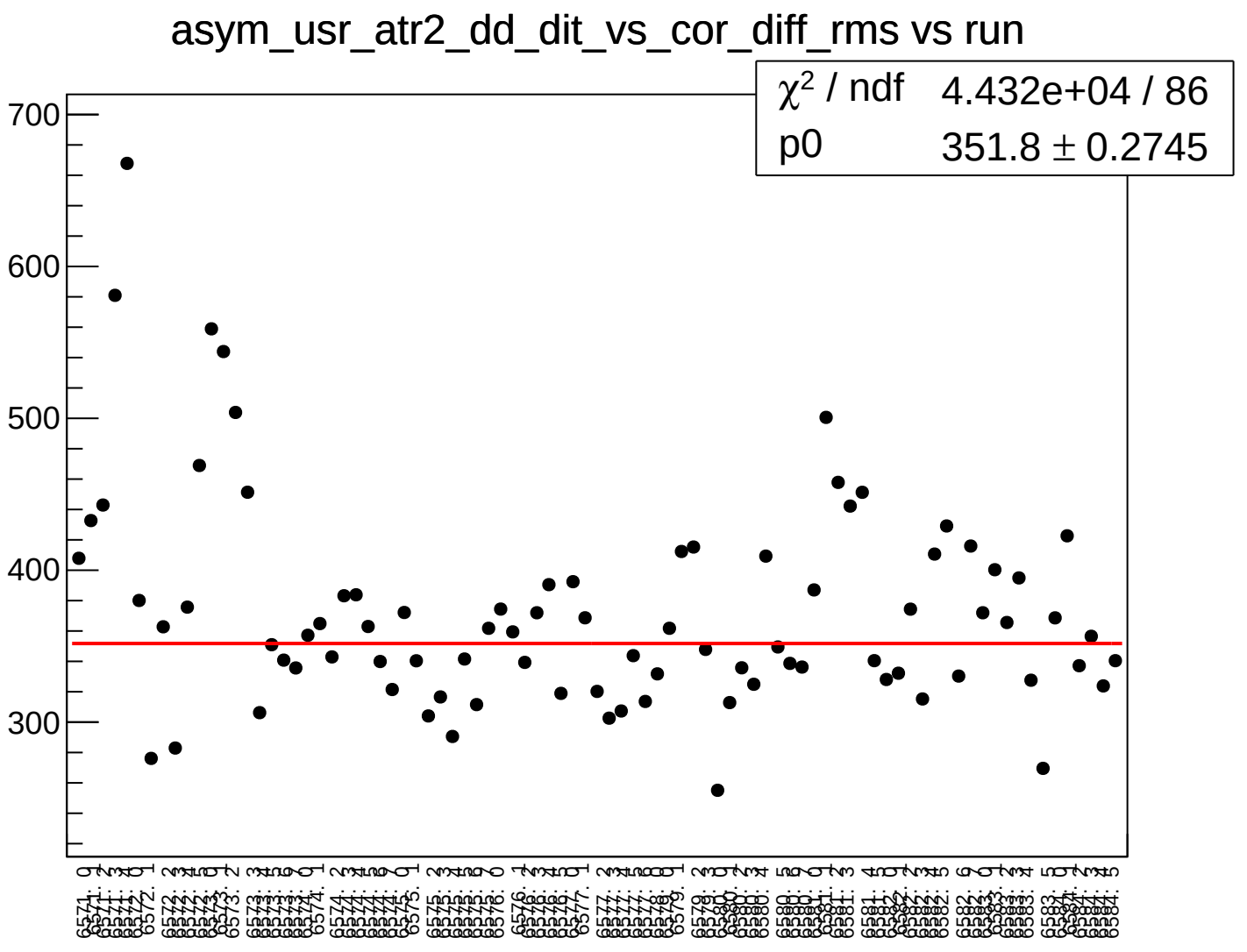

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.67 / 86
p0 −6.516e−14 ± 7.291e−14
pull
Entries 87
Mean 222.1
Std Dev 0

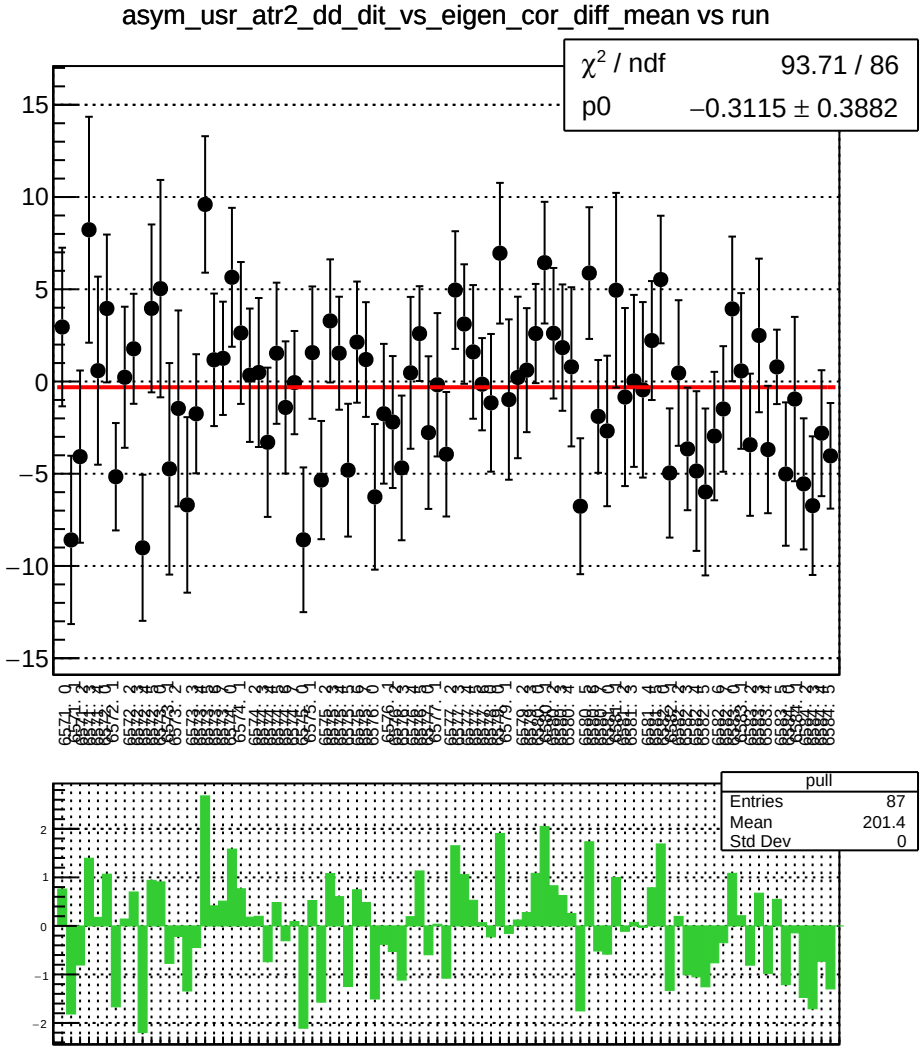

pull1D
Entries 87
Mean −0.01629
Std Dev 0.9806

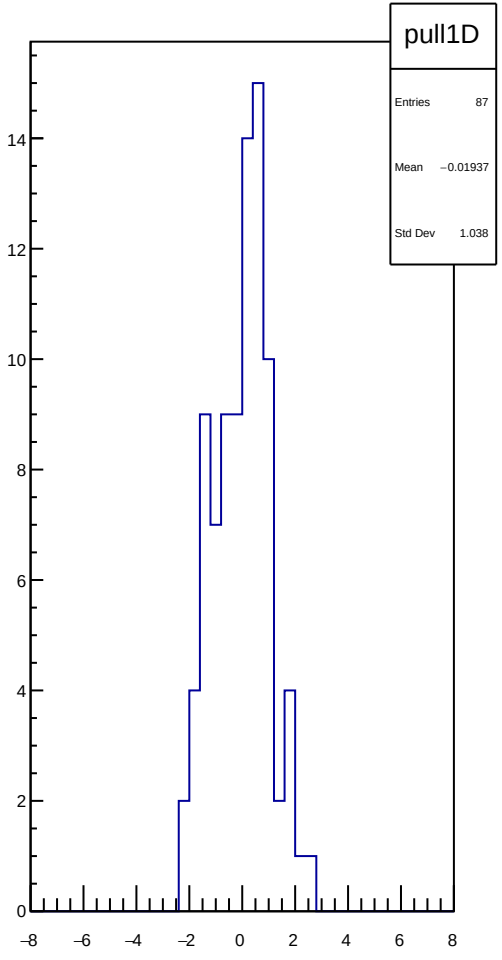

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.041e+06 / 86
p0 4.143e−11 ± 5.156e−14
1
0.8
0.6
0.4
0.2
0

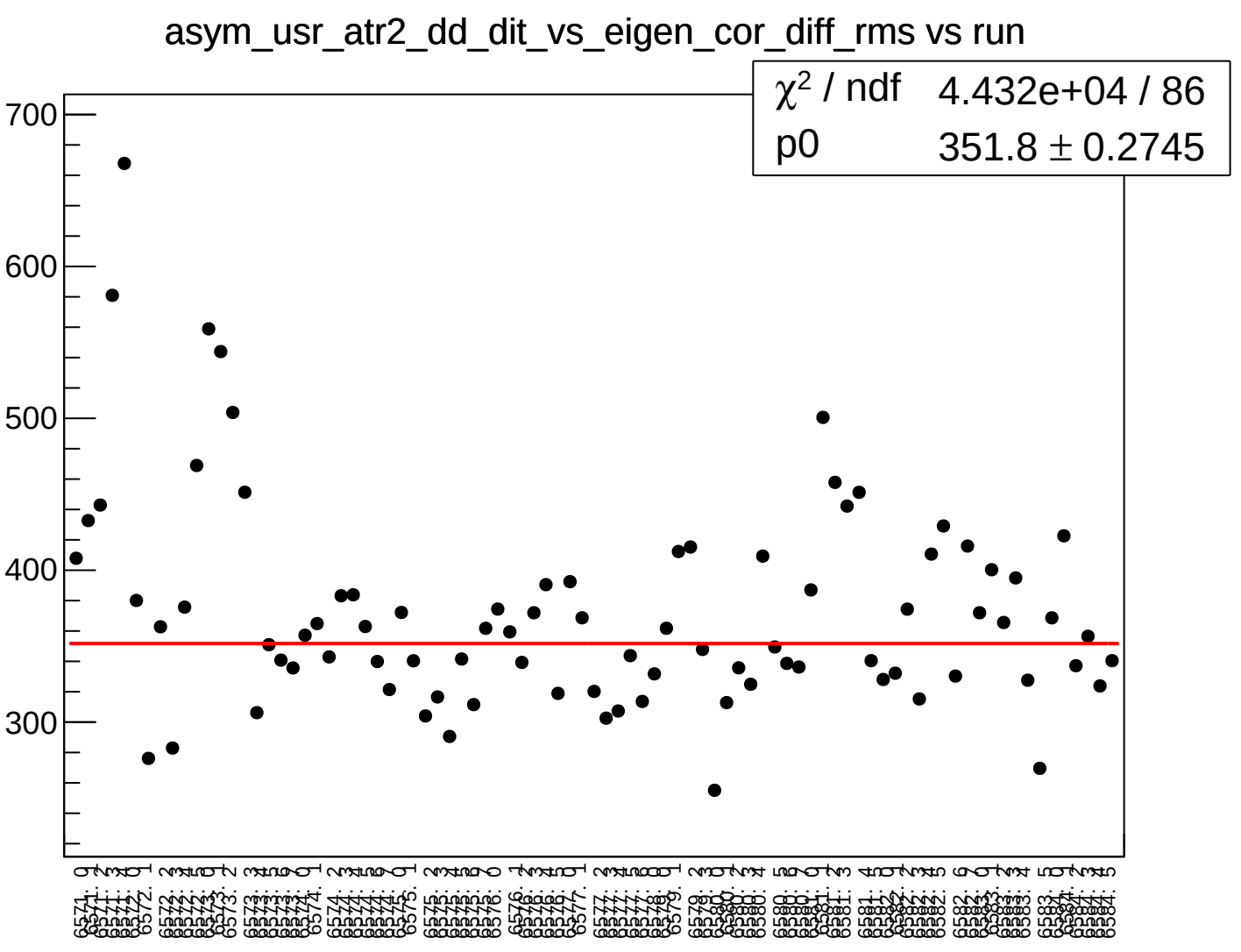

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.71 / 86
p0 −0.3115 ± 0.3882
pull
Entries 87
Mean 201.4
Std Dev 0

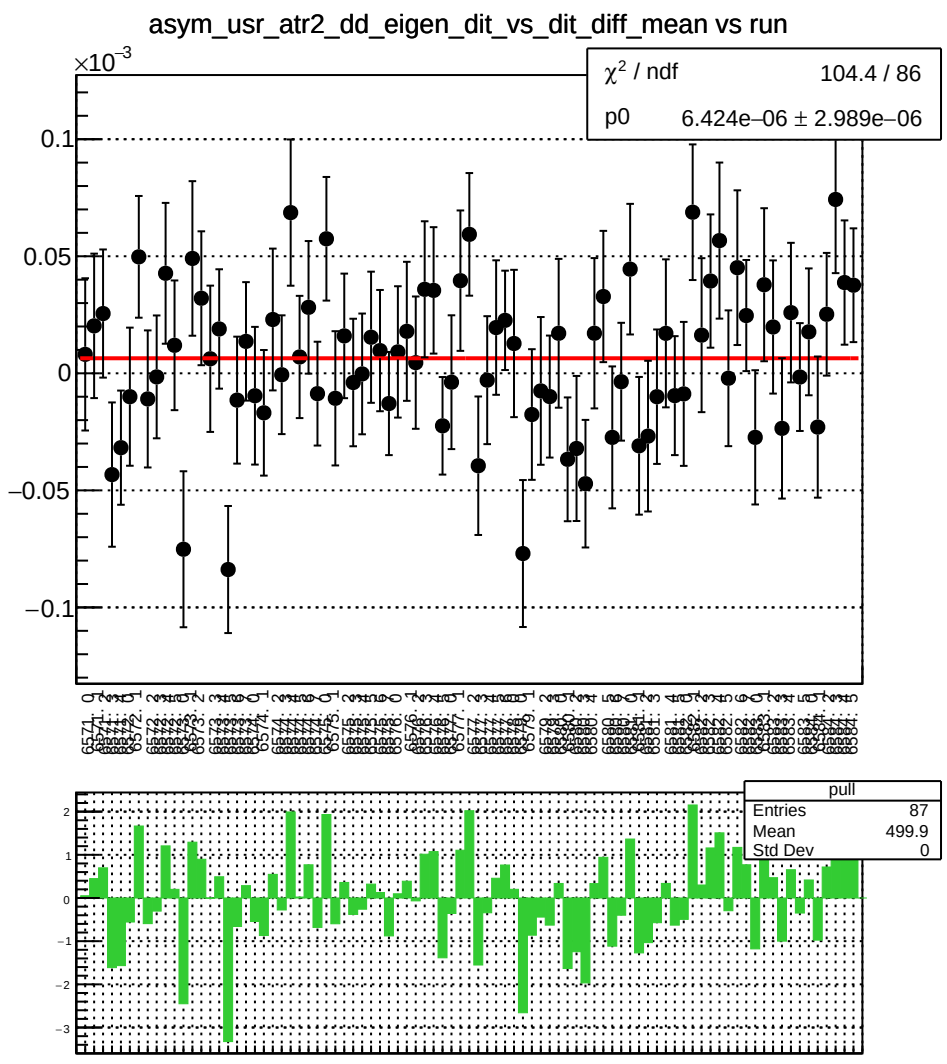

pull1D
Entries 87
Mean −0.01937
Std Dev 1.038

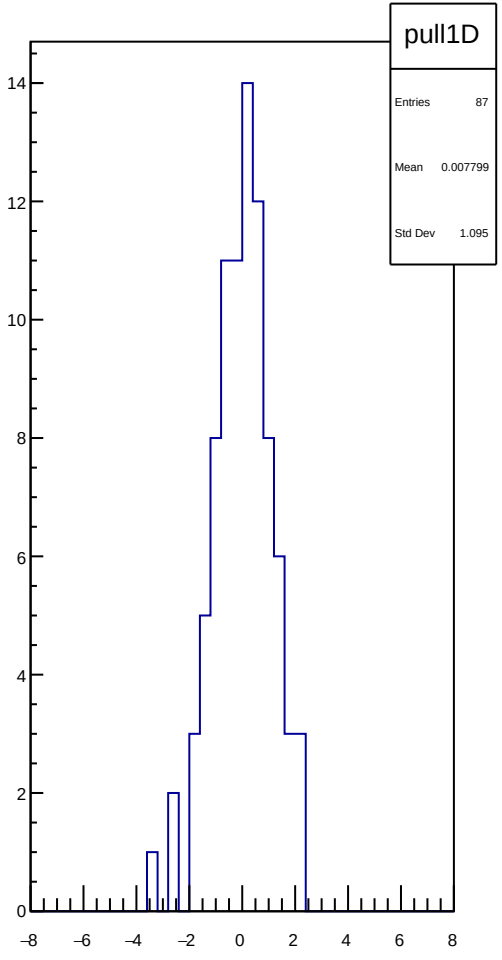

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.432e+04 / 86
p0 351.8 ± 0.2745
700
600
500
400
300

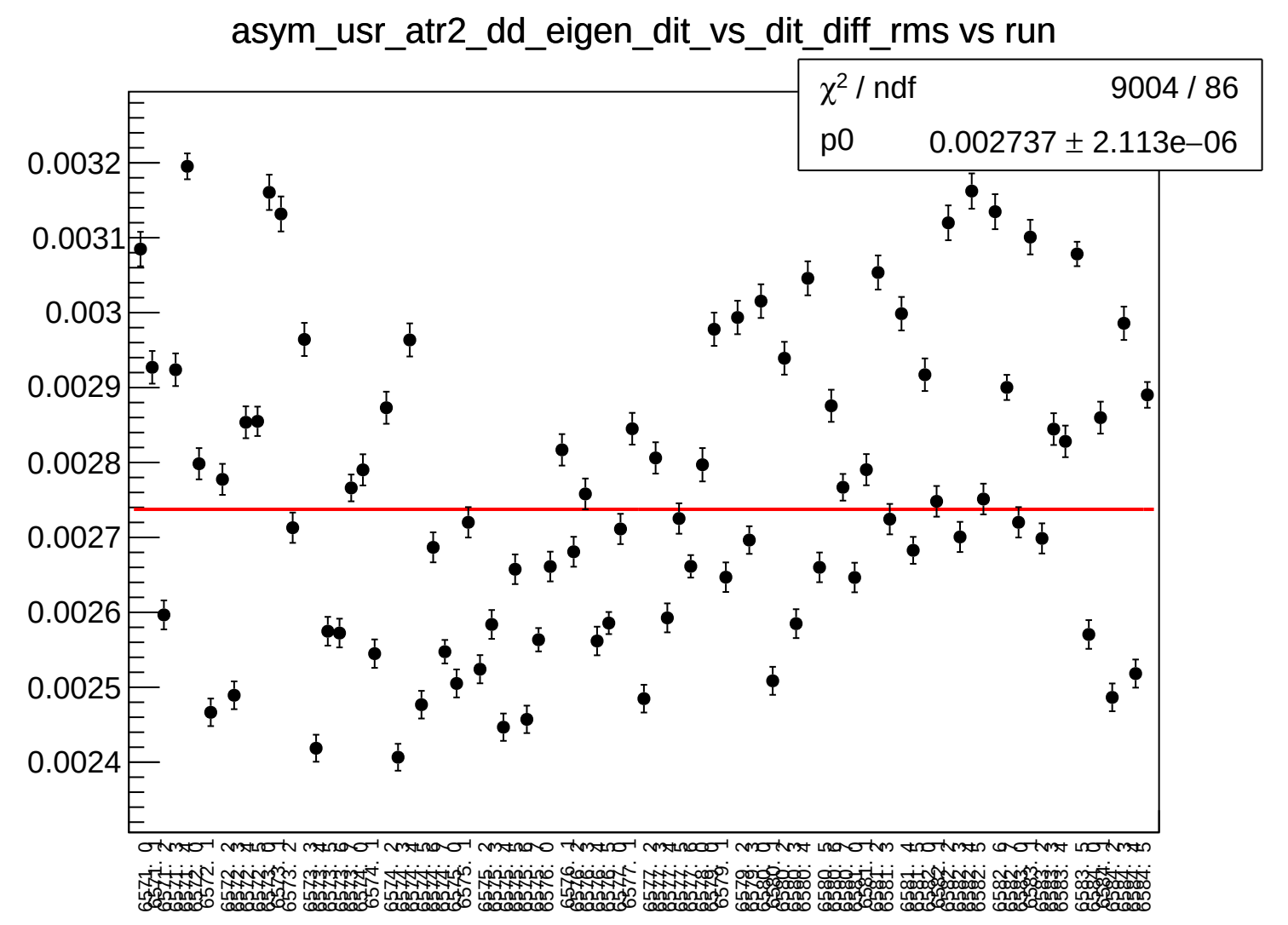

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.71 / 86
p0 −0.3115 ± 0.3882
pull
Entries 87
Mean 201.4
Std Dev 0

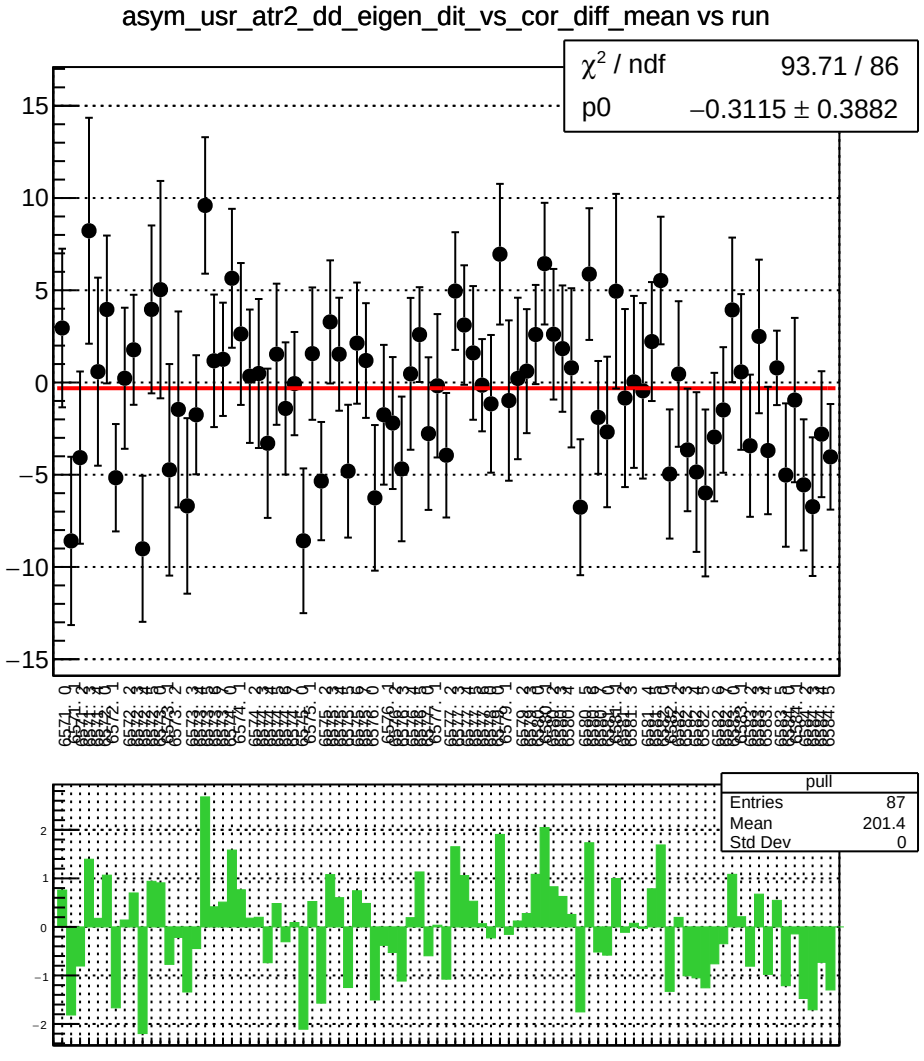

pull1D
Entries 87
Mean −0.01937
Std Dev 1.038

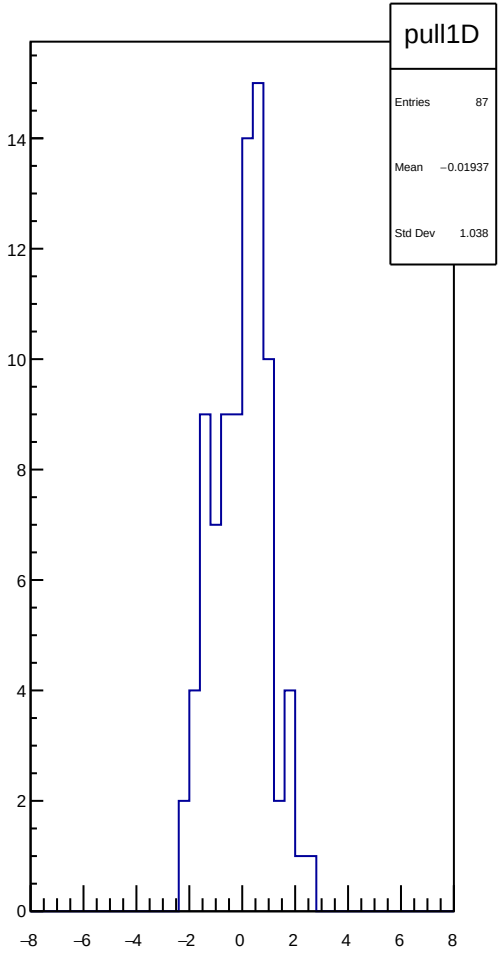

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.432e+04 / 86
p0 351.8 ± 0.2745
700
600
500
400
300

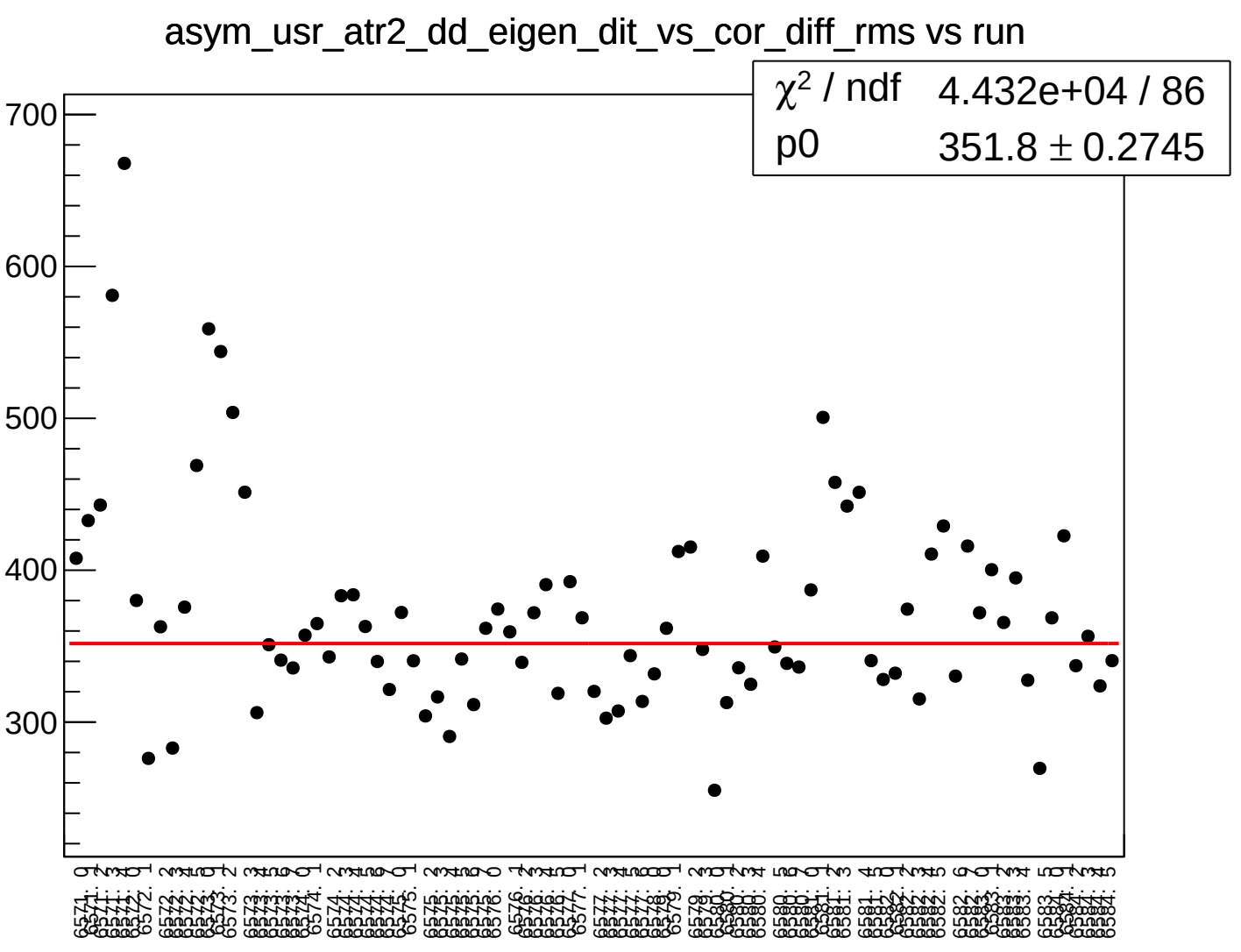

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 104.4 / 86
p0 6.424e−06 ± 2.989e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 499.9
Std Dev 0
2
1
0
−1
−2
−3

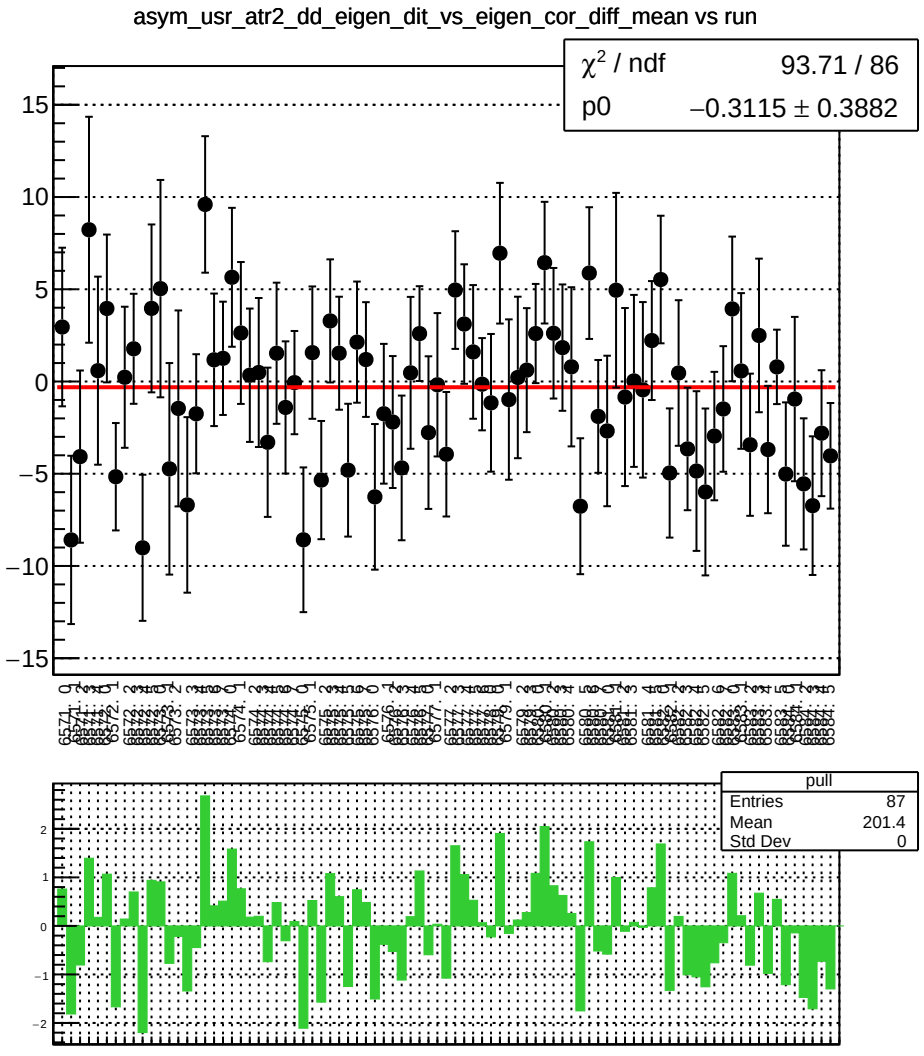

pull1D
Entries 87
Mean 0.007799
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

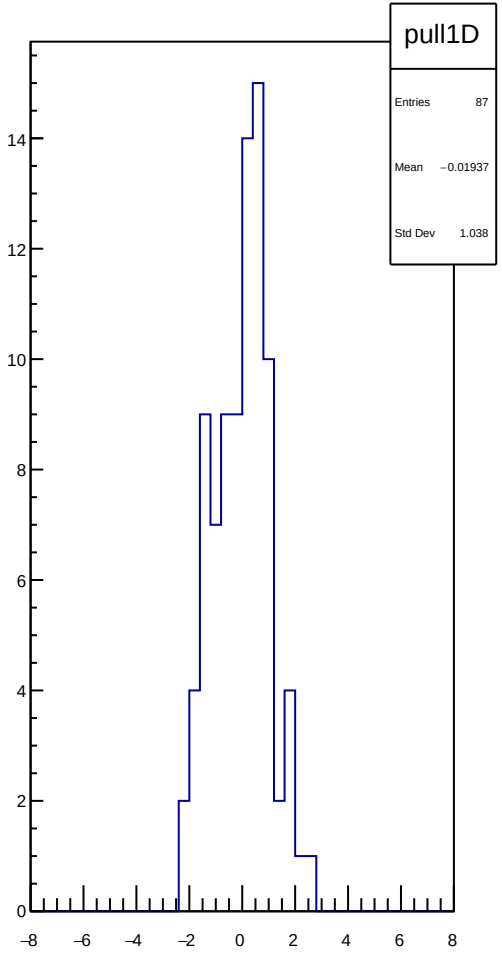

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9004 / 86
p0 0.002737 ± 2.113e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

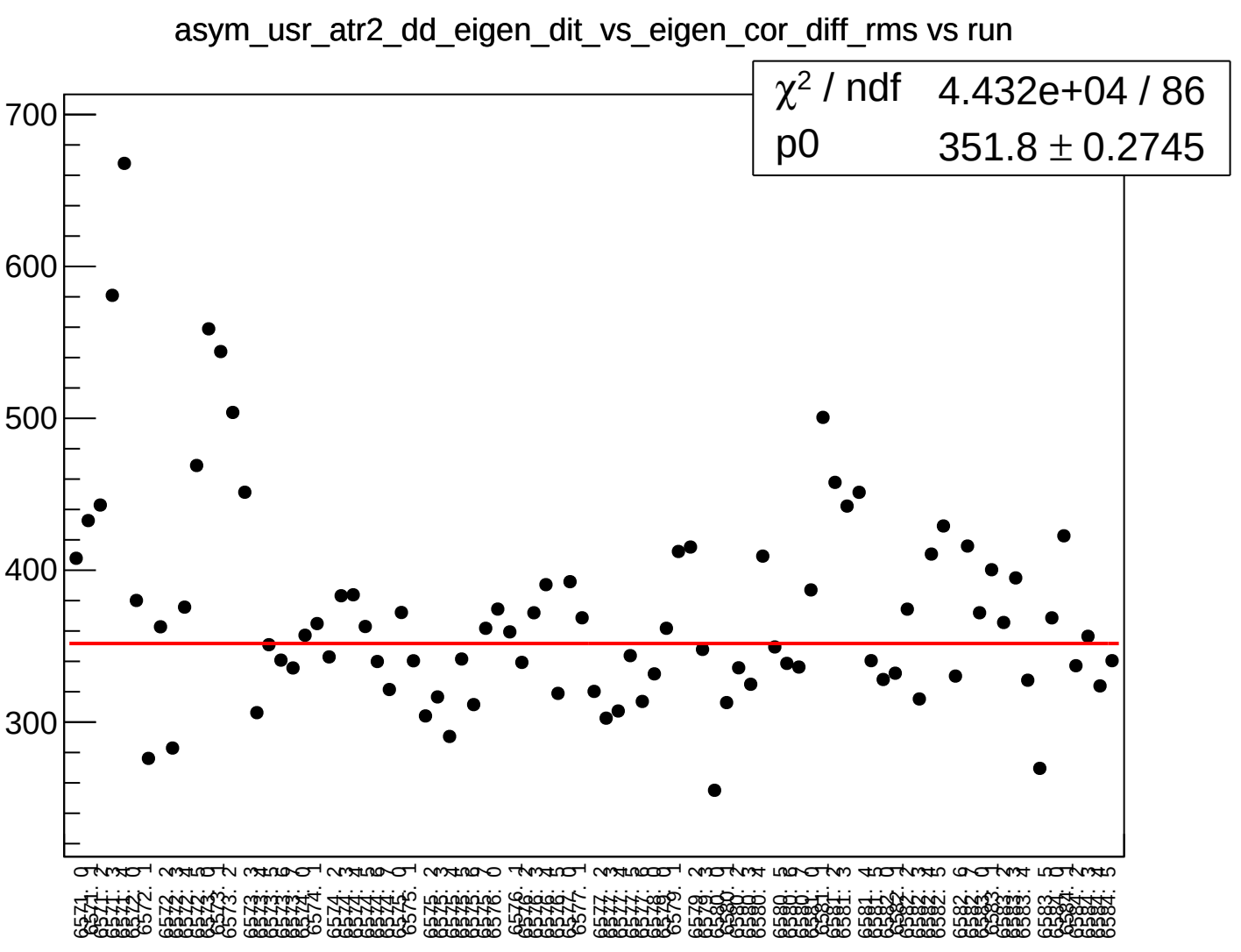

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.71 / 86
p0 −0.3115 ± 0.3882
pull
Entries 87
Mean 201.4
Std Dev 0

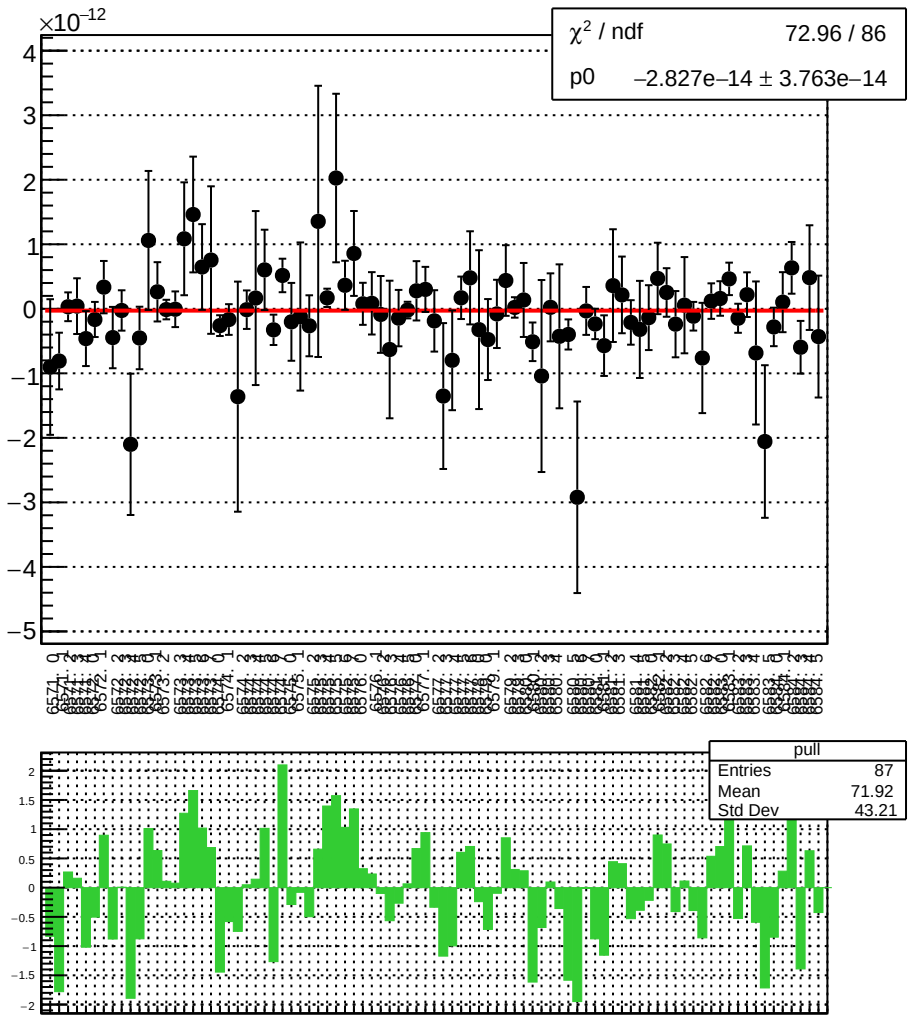

pull1D
Entries 87
Mean −0.01937
Std Dev 1.038

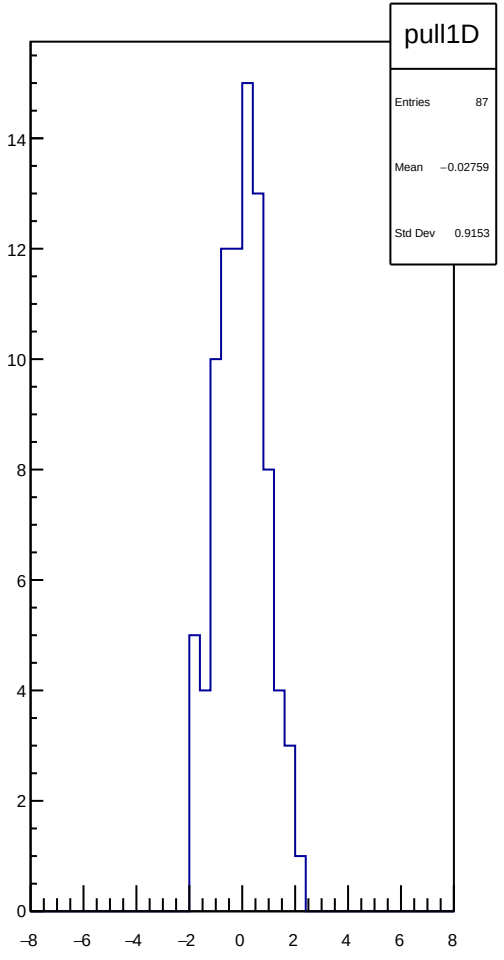

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.432e+04 / 86
p0 351.8 ± 0.2745
700
600
500
400
300

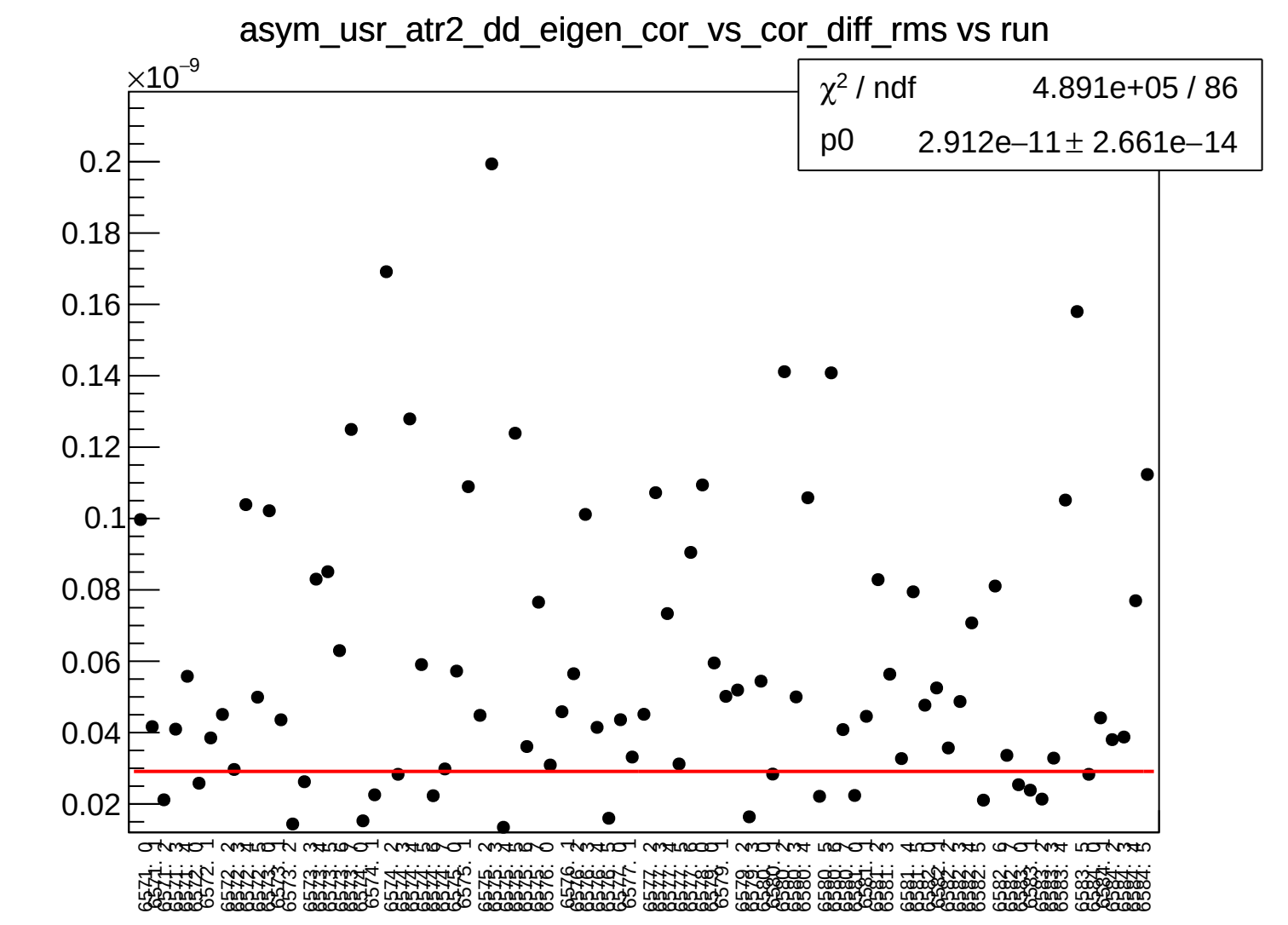

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.71 / 86
p0 −0.3115 ± 0.3882
pull
Entries 87
Mean 201.4
Std Dev 0

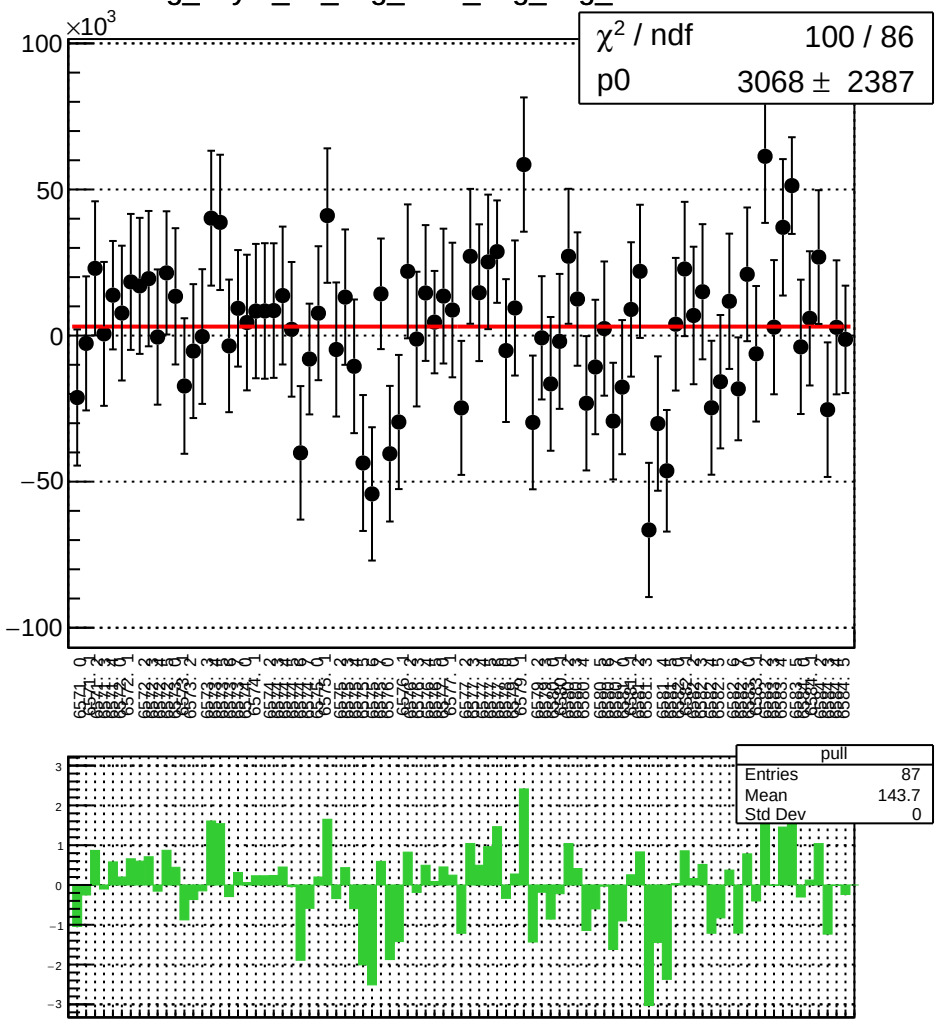

pull1D
Entries 87
Mean −0.01937
Std Dev 1.038

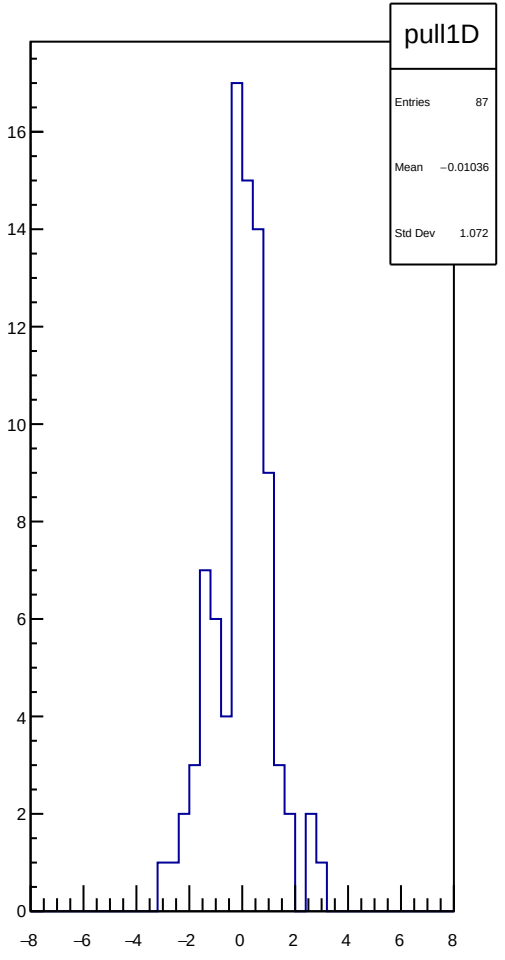

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.432e+04 / 86
p0 351.8 ± 0.2745
700
600
500
400
300

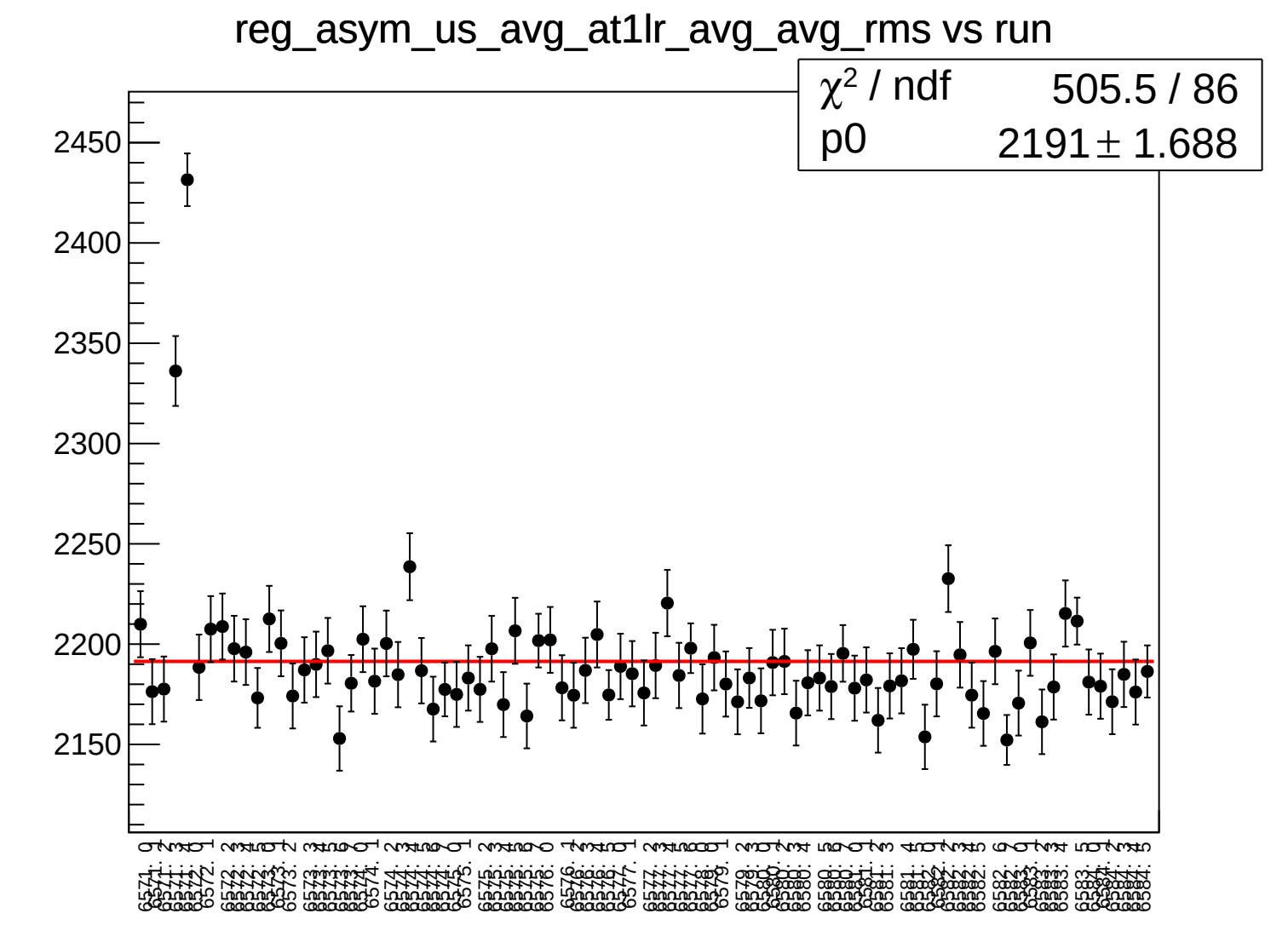

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.96 / 86
p0 −2.827e−14 ± 3.763e−14
pull
Entries 87
Mean 71.92
Std Dev 43.21

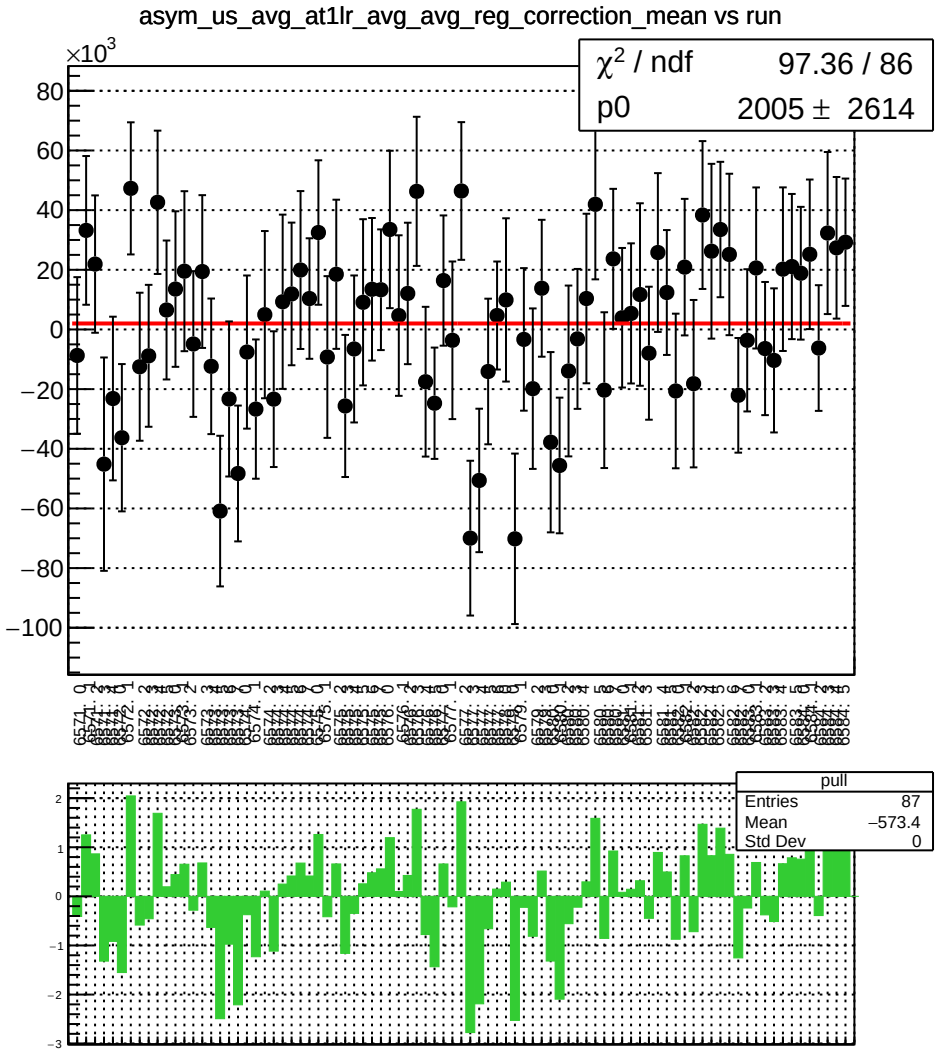

pull1D
Entries 87
Mean −0.02759
Std Dev 0.9153

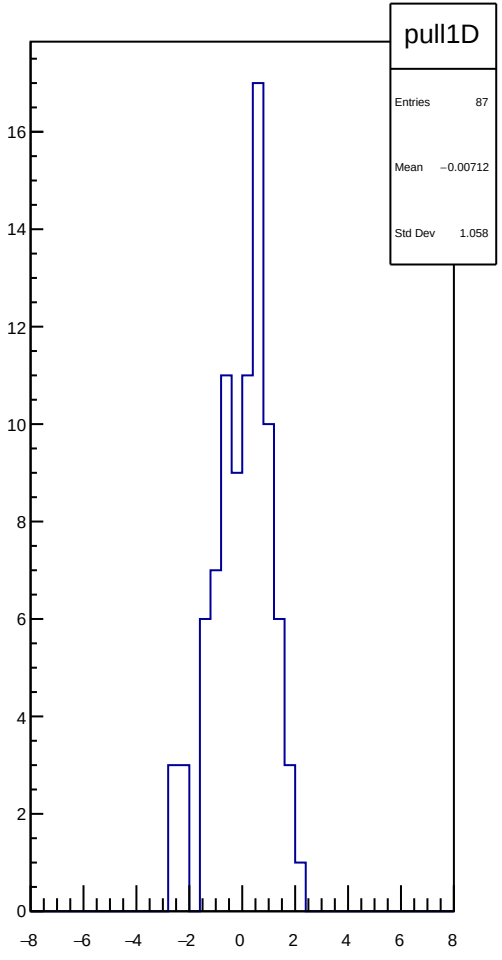

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.891e+05 / 86
p0 2.912e−11 ± 2.661e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

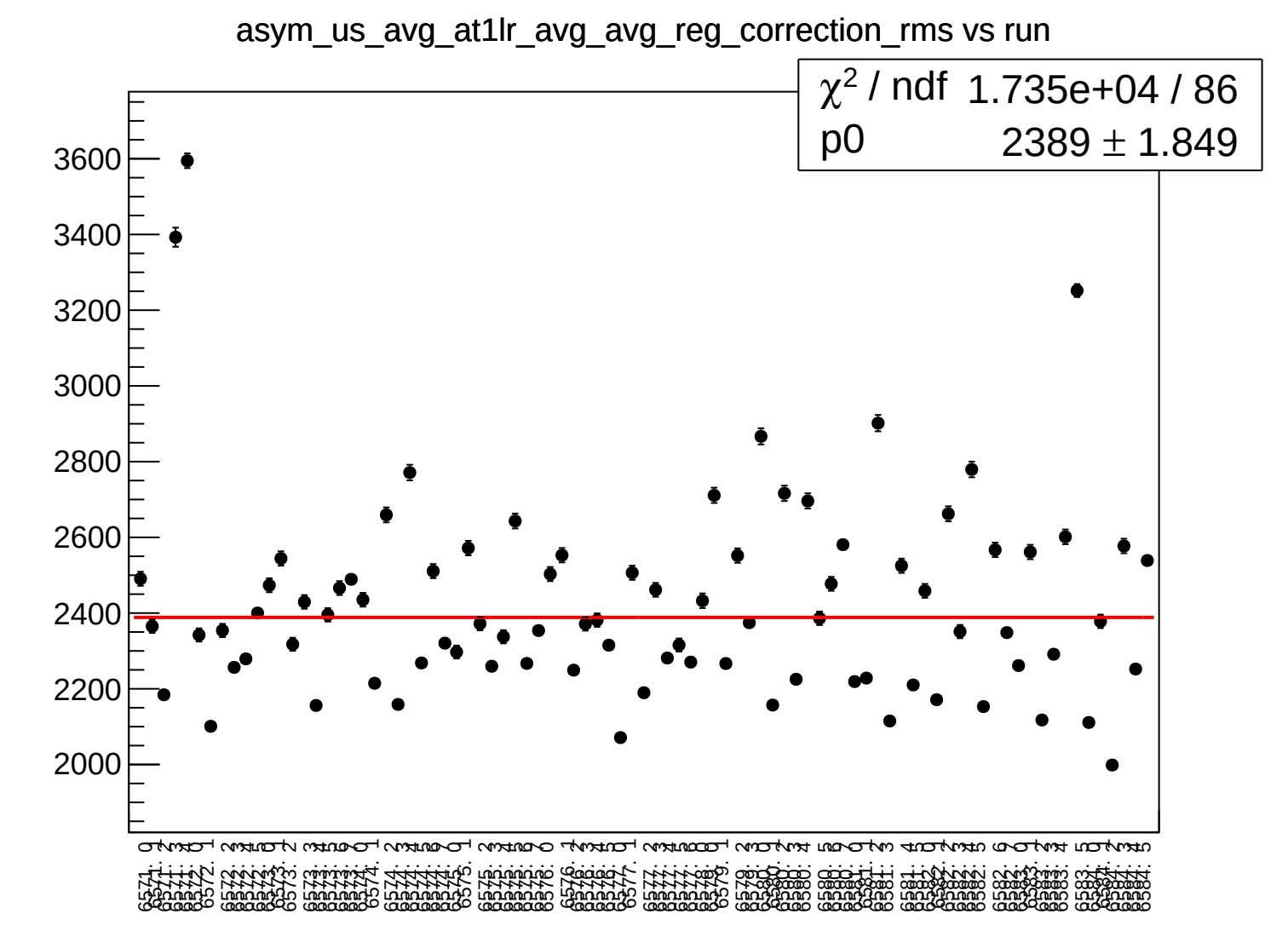

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 100 / 86
p0 3068 ± 2387
pull
Entries 87
Mean 143.7
Std Dev 0

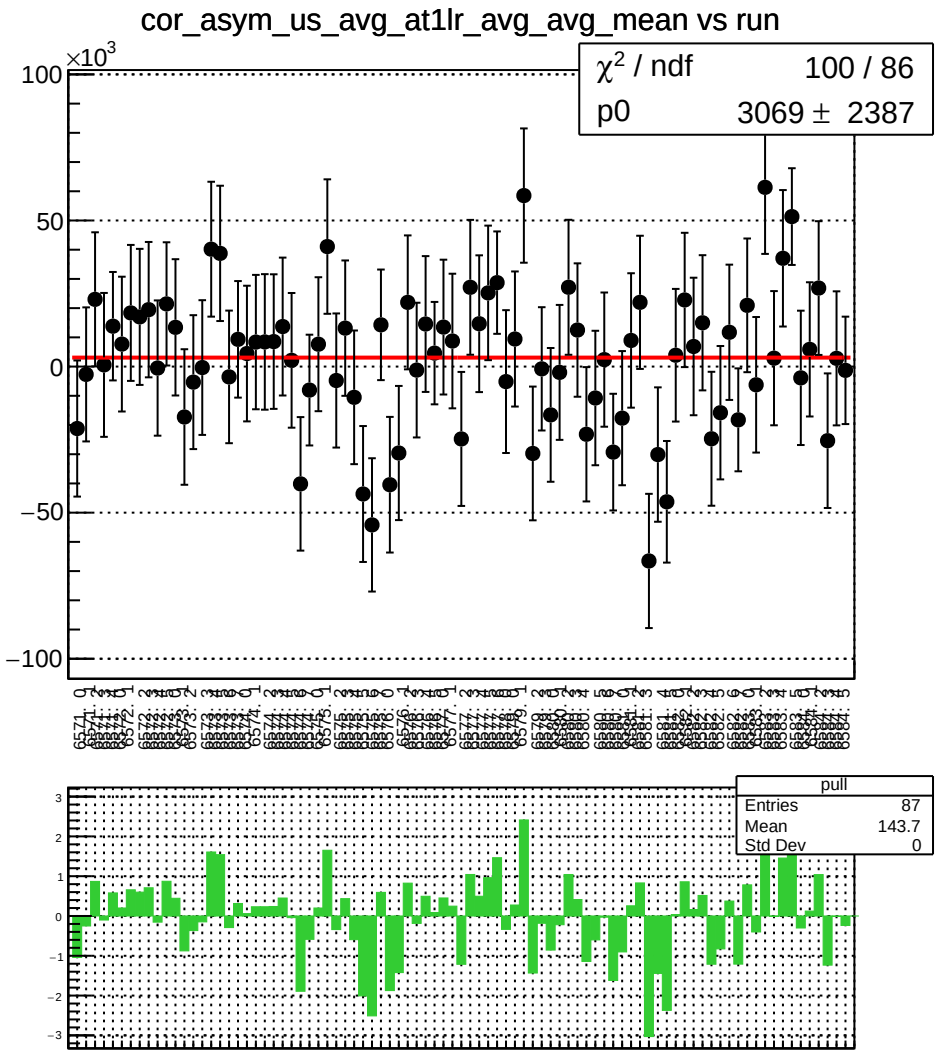

pull1D
Entries 87
Mean −0.01036
Std Dev 1.072

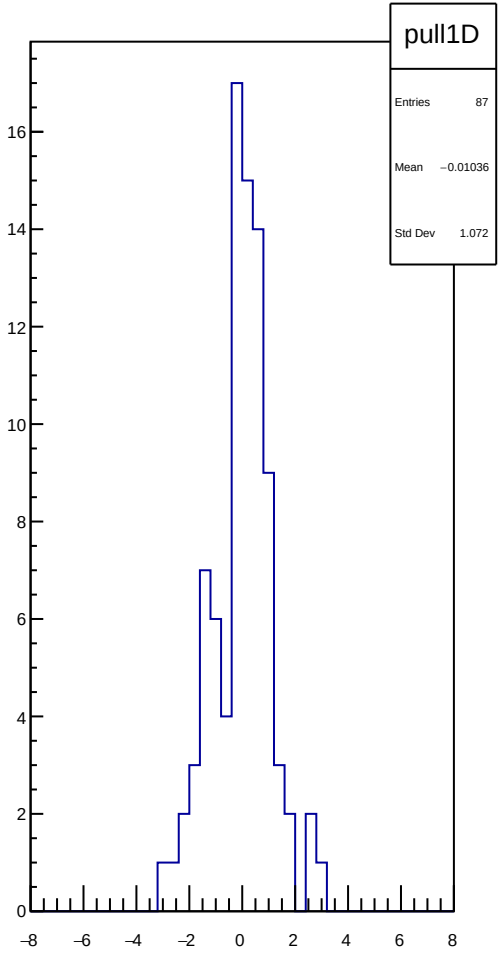

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 505.5 / 86
p0 2191 ± 1.688
2450
2400
2350
2300
2250
2200
2150

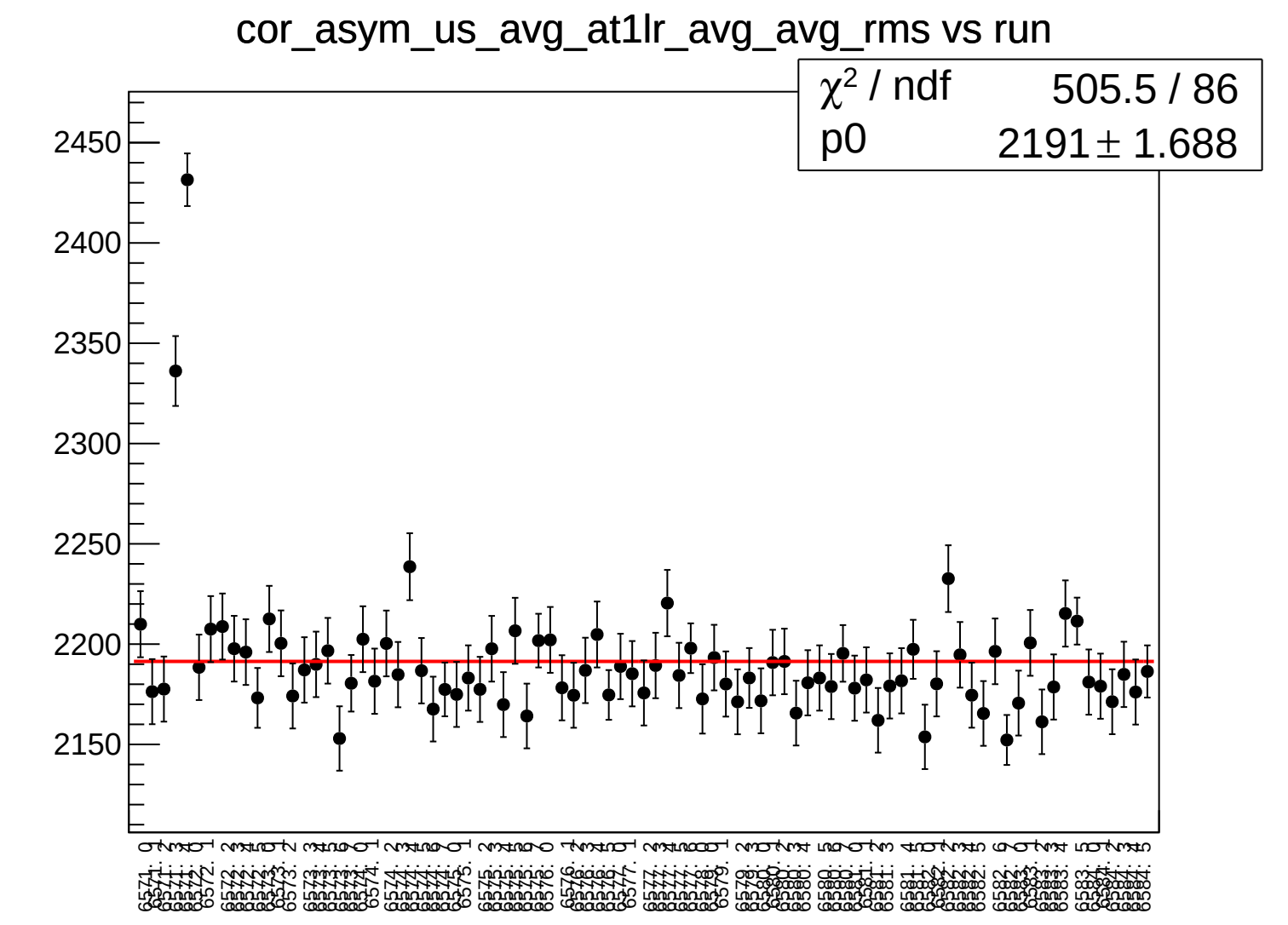

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.36 / 86
p0 2005 ± 2614
pull
Entries 87
Mean −573.4
Std Dev 0

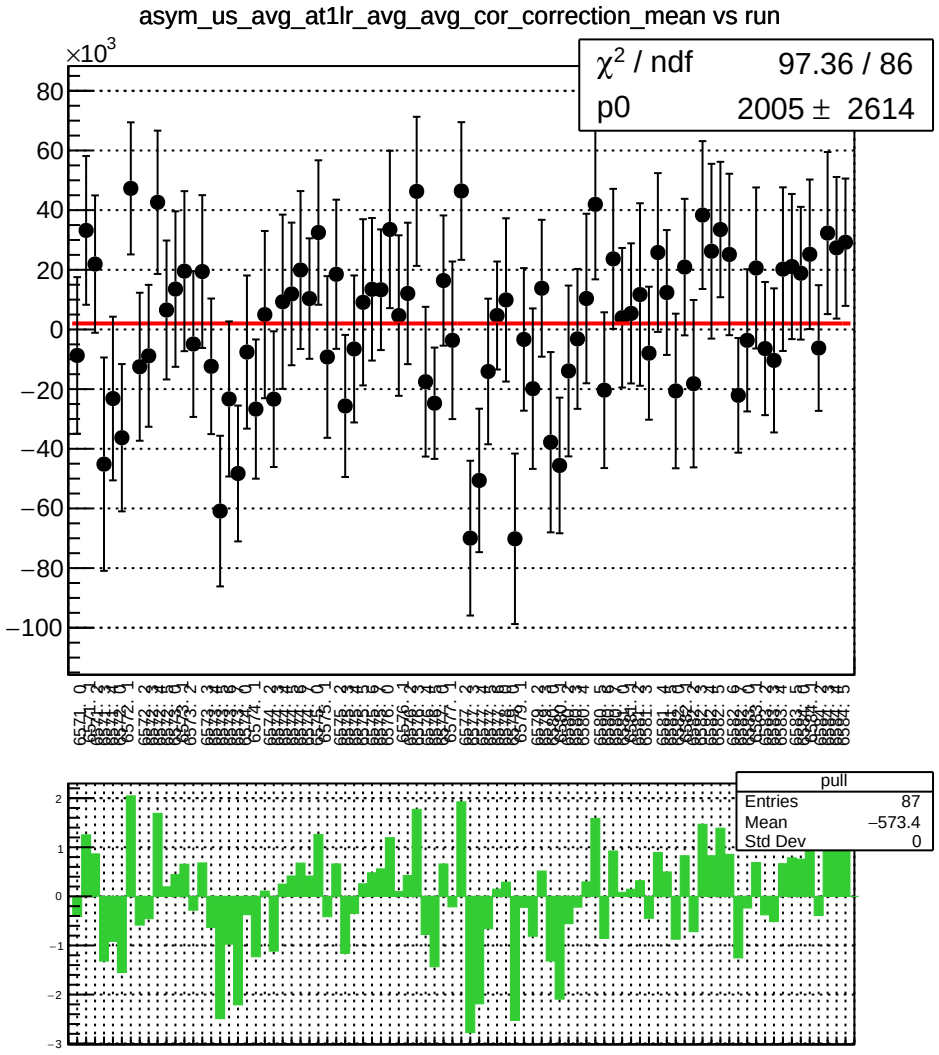

pull1D
Entries 87
Mean −0.00712
Std Dev 1.058

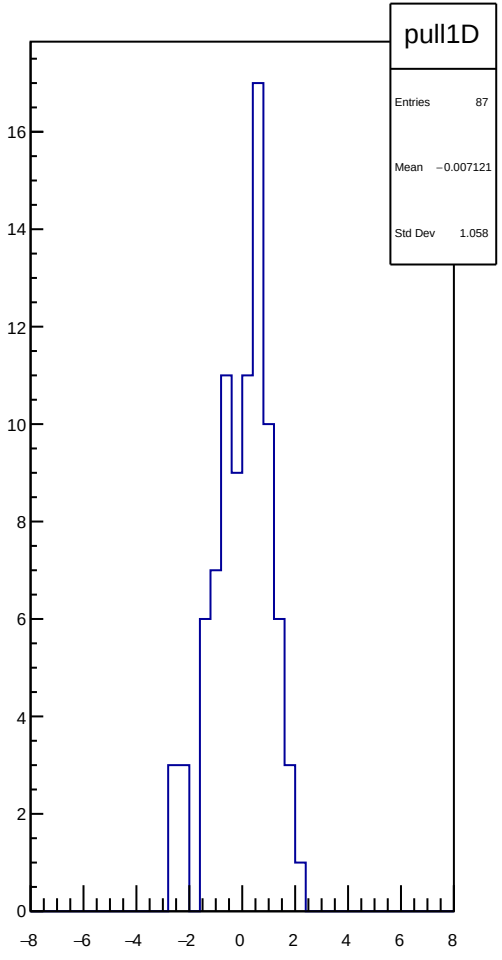

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.735e+04 / 86
p0 2389 ± 1.849
3600
3400
3200
3000
2800
2600
2400
2200
2000

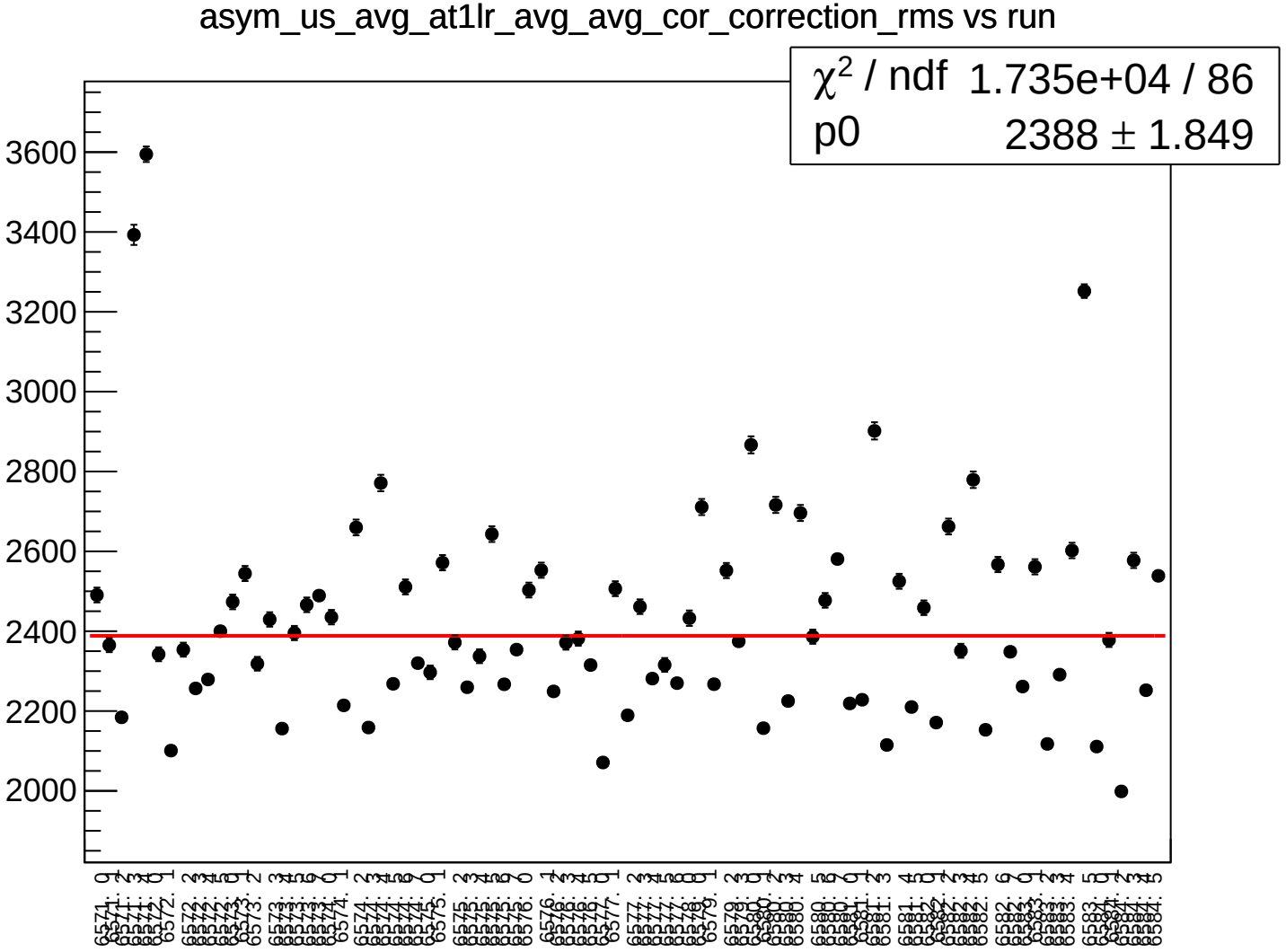

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 100 / 86
p0 3069 ± 2387
pull
Entries 87
Mean 143.7
Std Dev 0

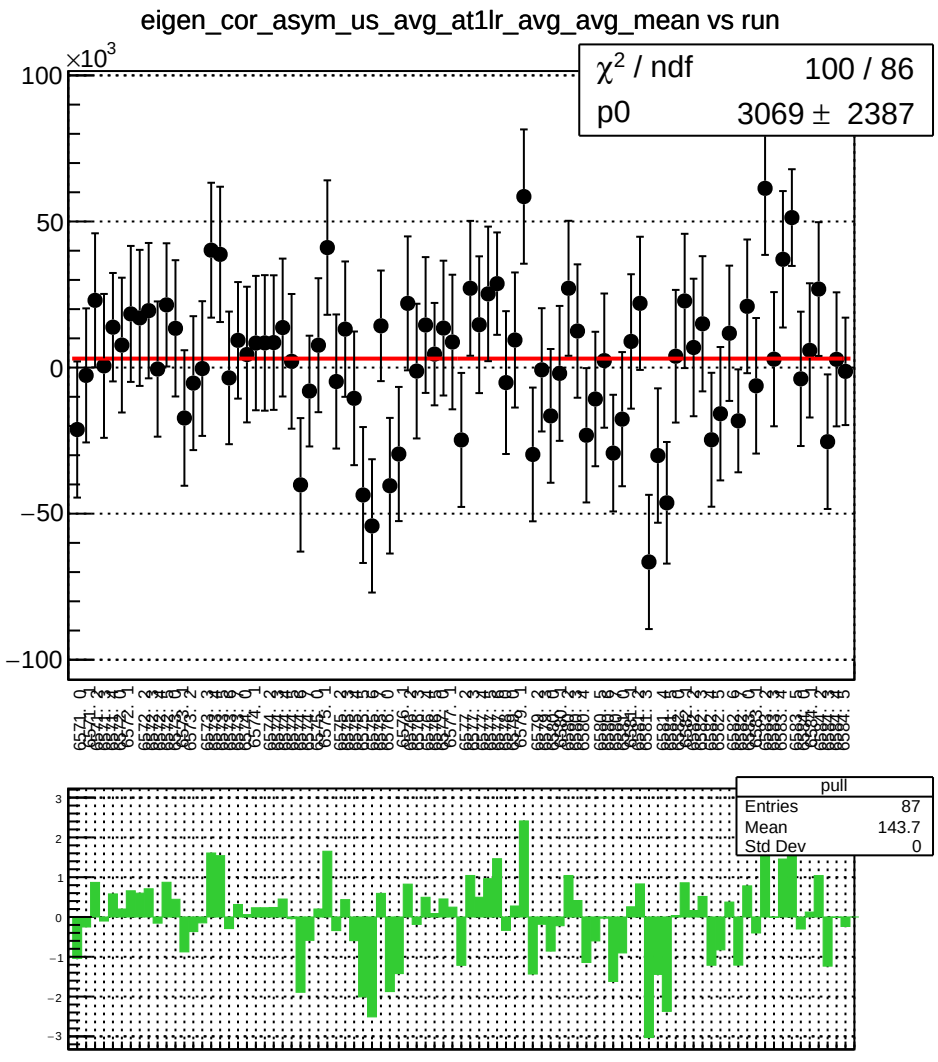

pull1D
Entries 87
Mean −0.01036
Std Dev 1.072

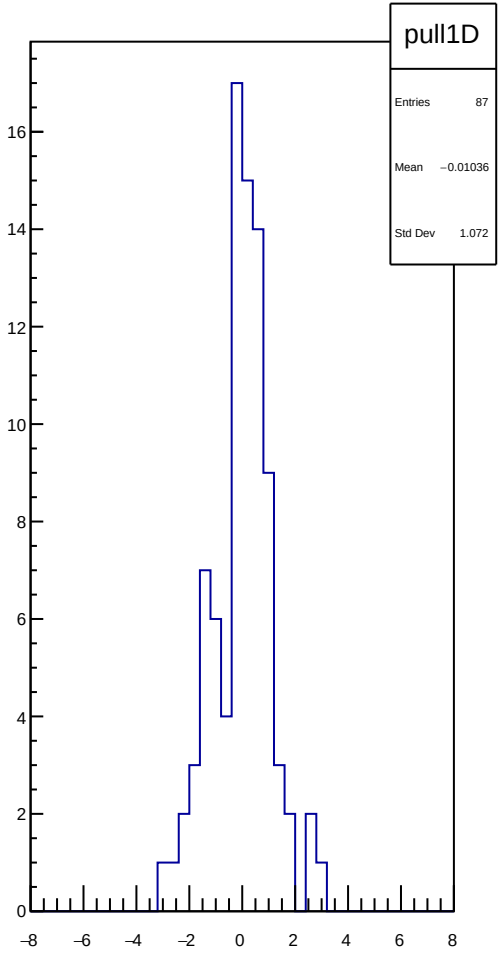

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 505.5 / 86
p0 2191 ± 1.688
2450
2400
2350
2300
2250
2200
2150

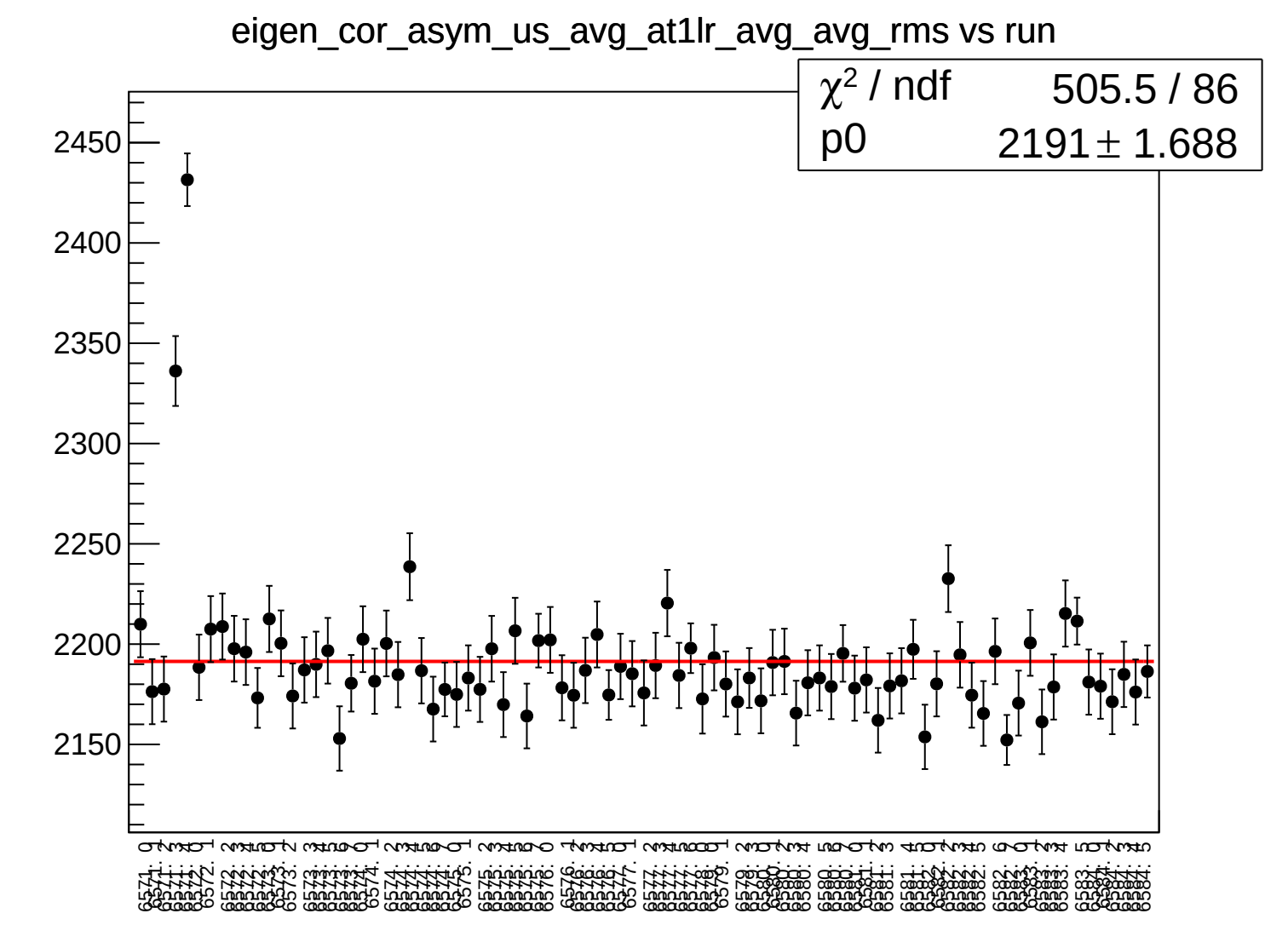

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.36 / 86
p0 2005 ± 2614
pull
Entries 87
Mean −573.4
Std Dev 0

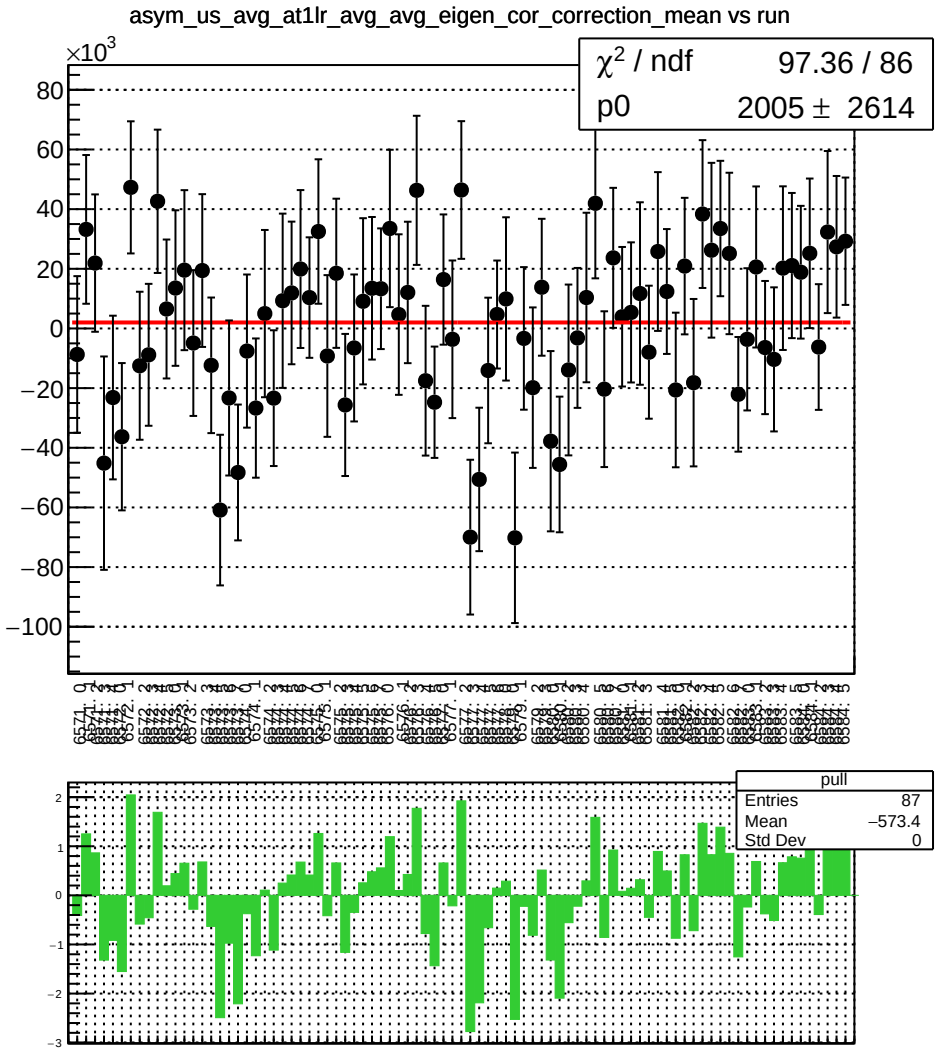

pull1D
Entries 87
Mean −0.007121
Std Dev 1.058

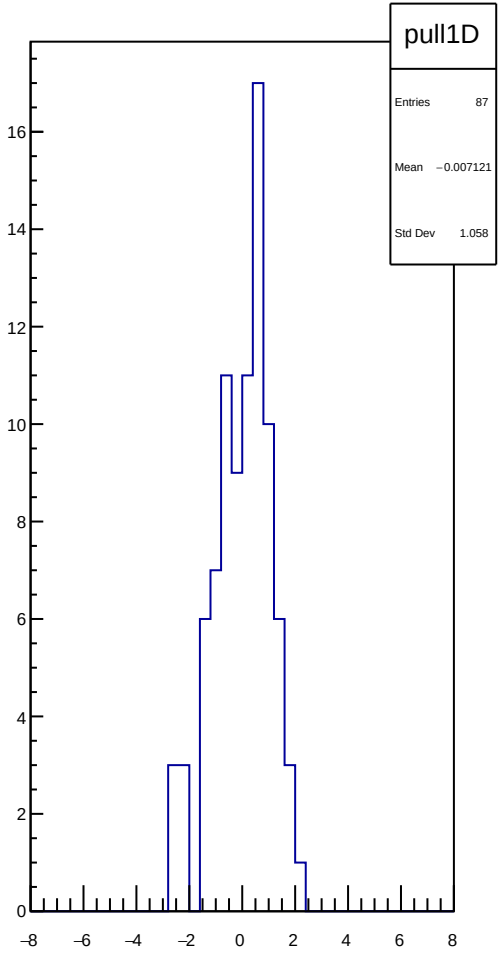

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.735e+04 / 86
p0 2388 ± 1.849
3600
3400
3200
3000
2800
2600
2400
2200
2000

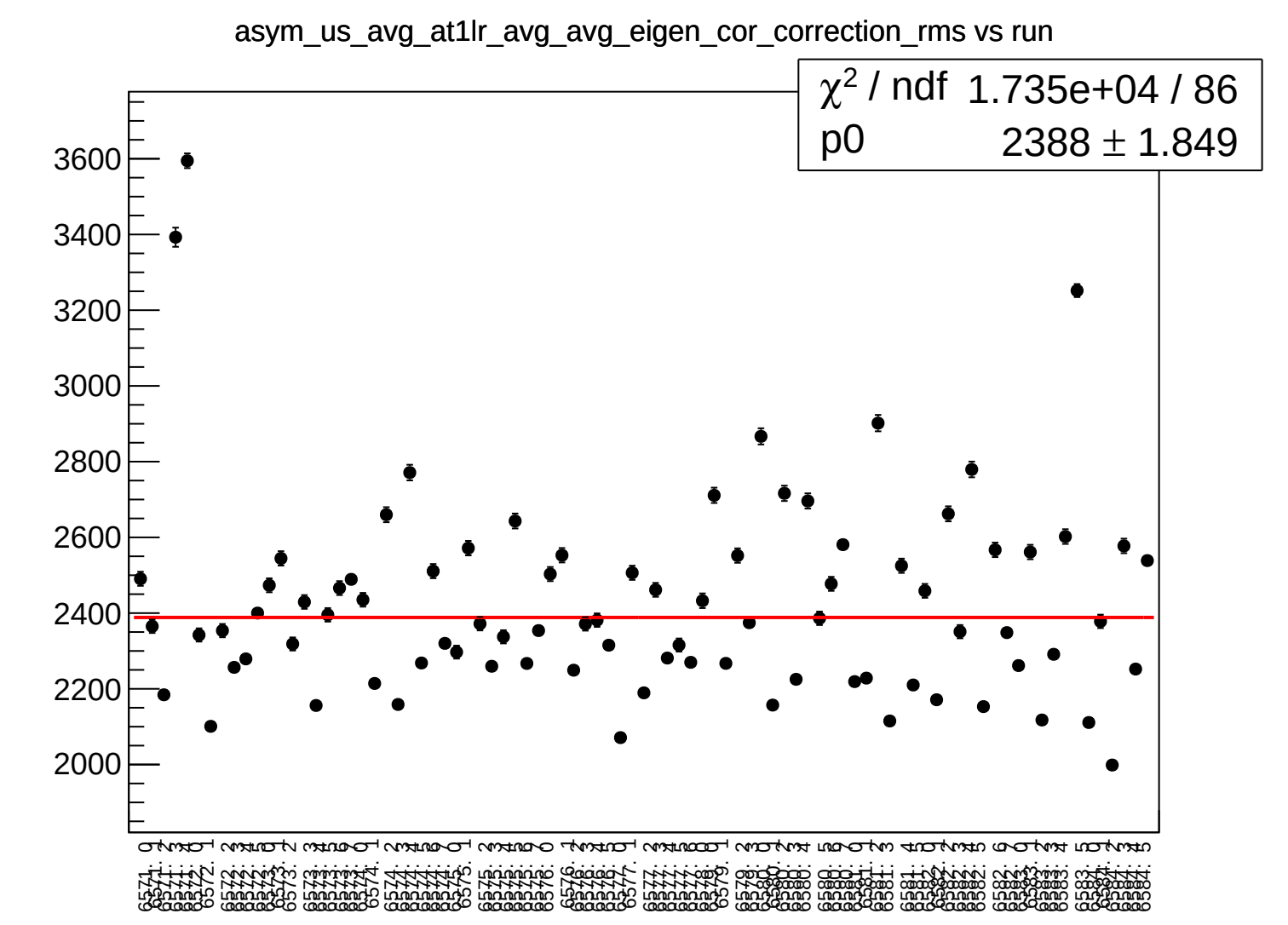

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 100 / 86
p0 3069 ± 2387
pull
Entries 87
Mean 143.7
Std Dev 0

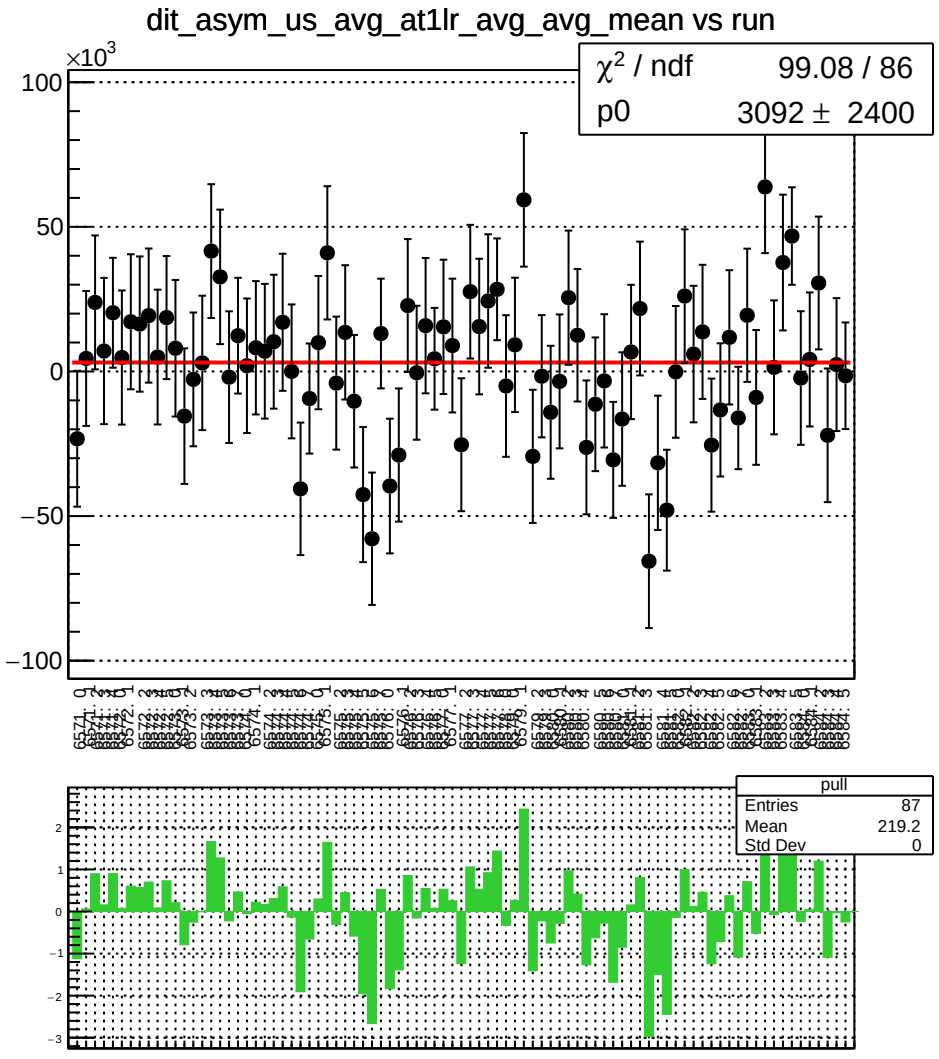

pull1D
Entries 87
Mean −0.01036
Std Dev 1.072

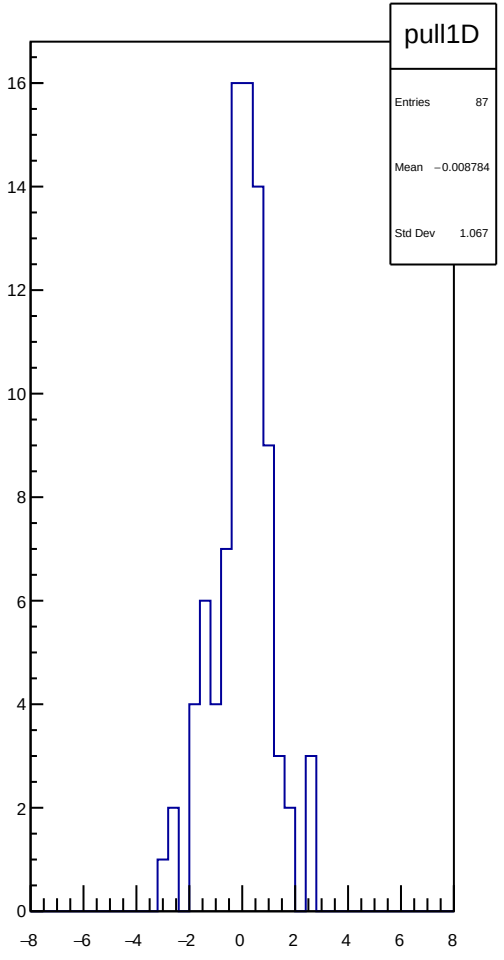

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 505.5 / 86
p0 2191 ± 1.688
2450
2400
2350
2300
2250
2200
2150

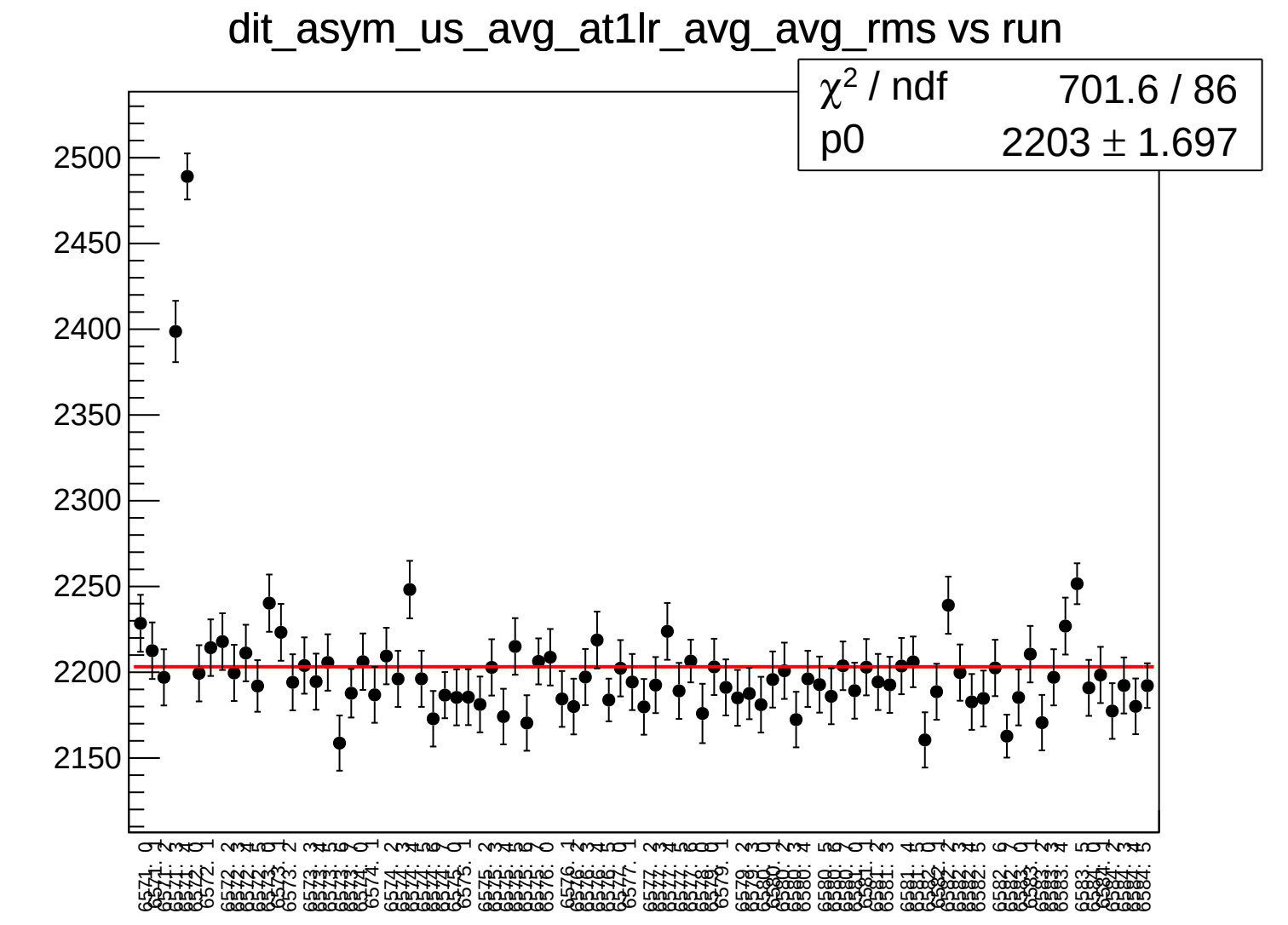

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.36 / 86
p0 2005 ± 2614
pull
Entries 87
Mean −573.4
Std Dev 0

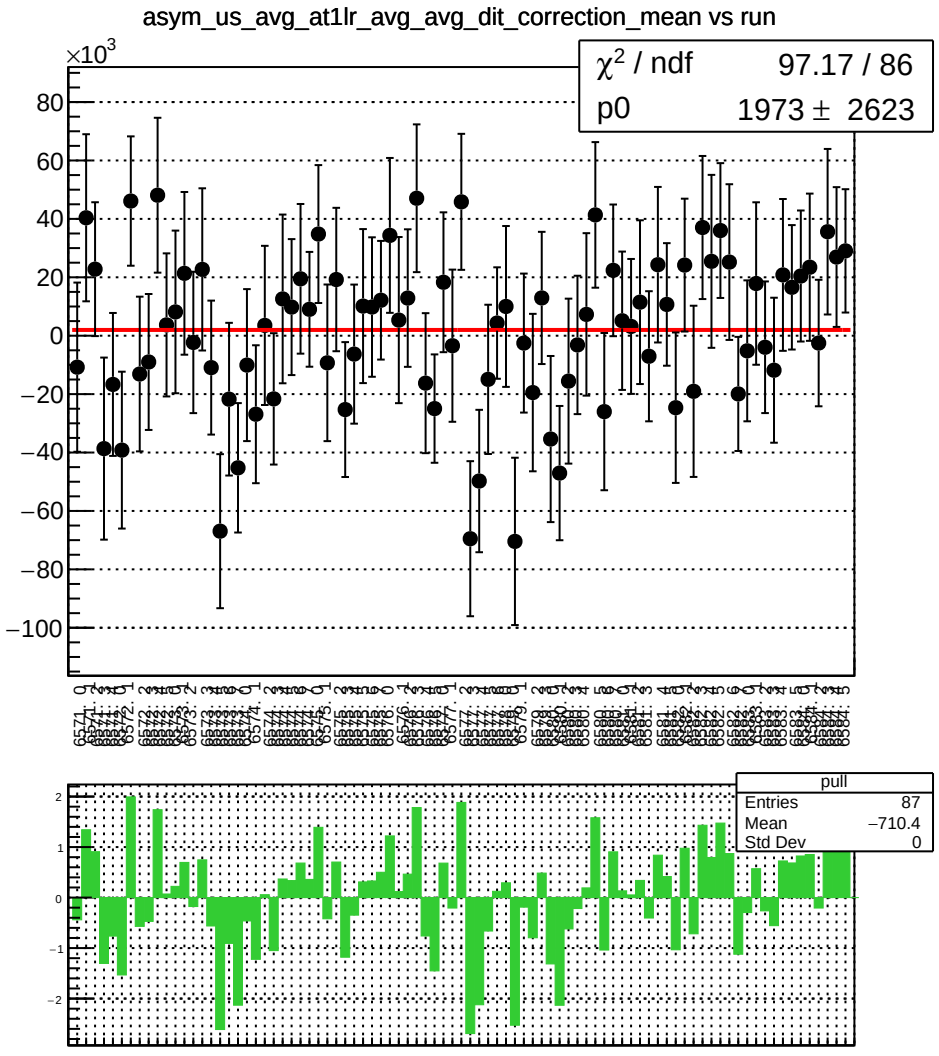

pull1D
Entries 87
Mean −0.007121
Std Dev 1.058

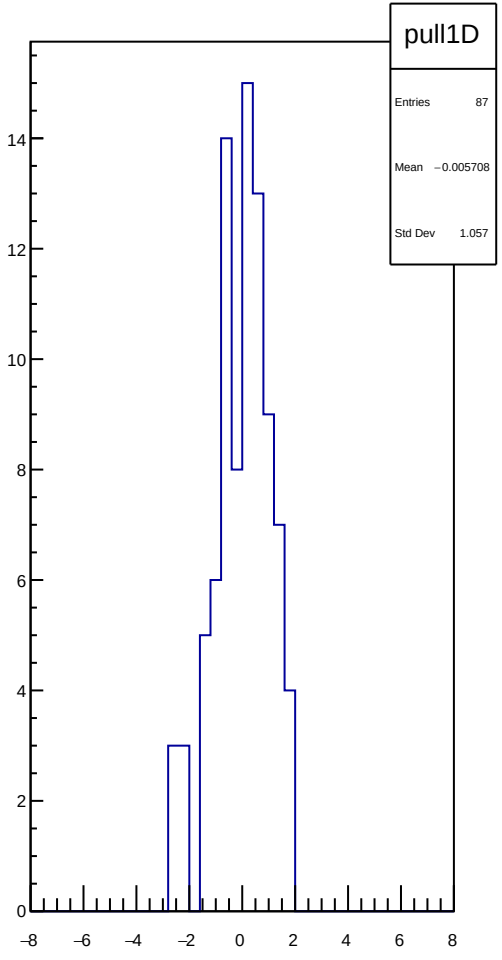

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.735e+04 / 86
p0 2388 ± 1.849
3600
3400
3200
3000
2800
2600
2400
2200
2000

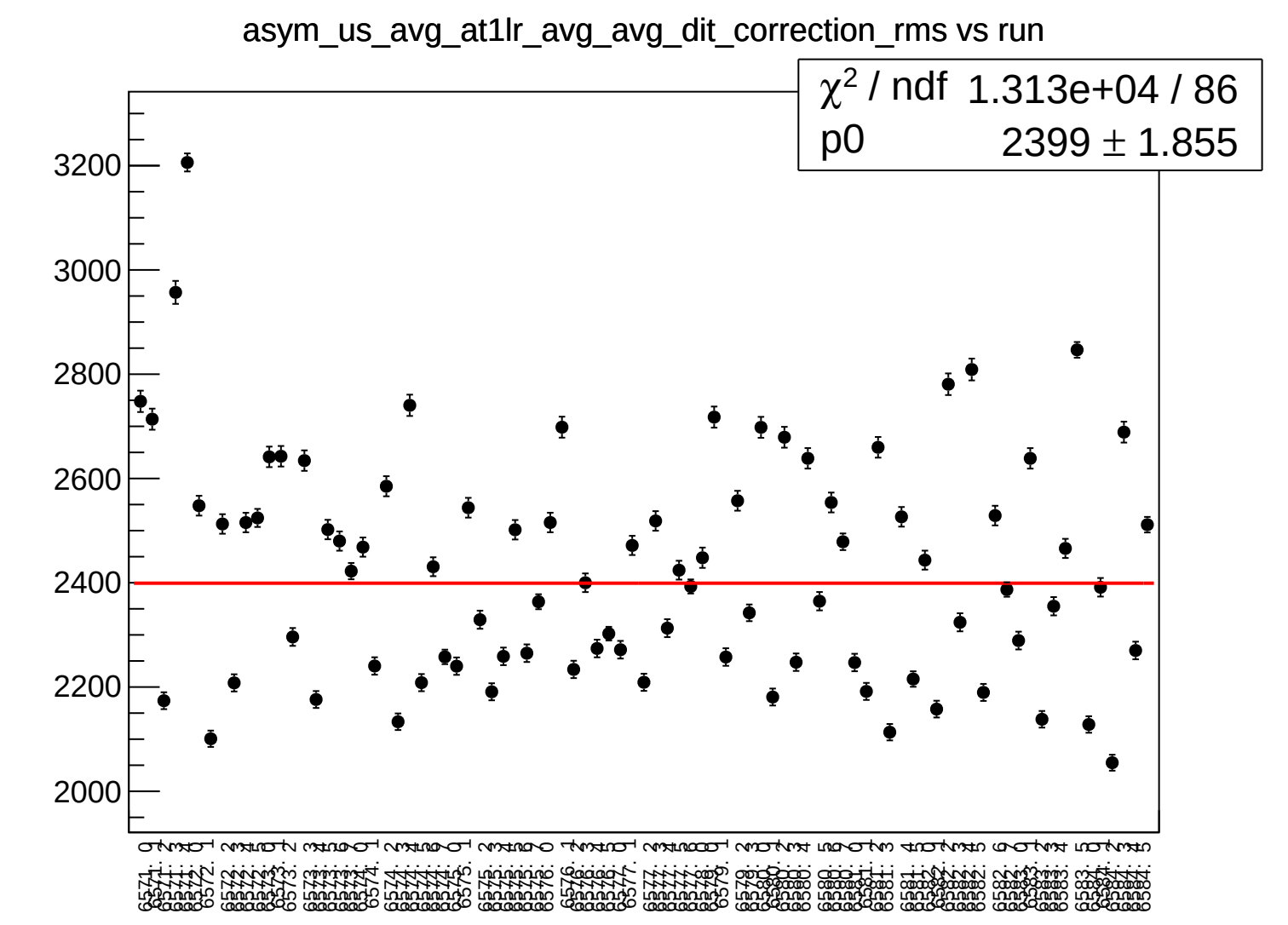

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 99.08 / 86
p0 3092 ± 2400
pull
Entries 87
Mean 219.2
Std Dev 0

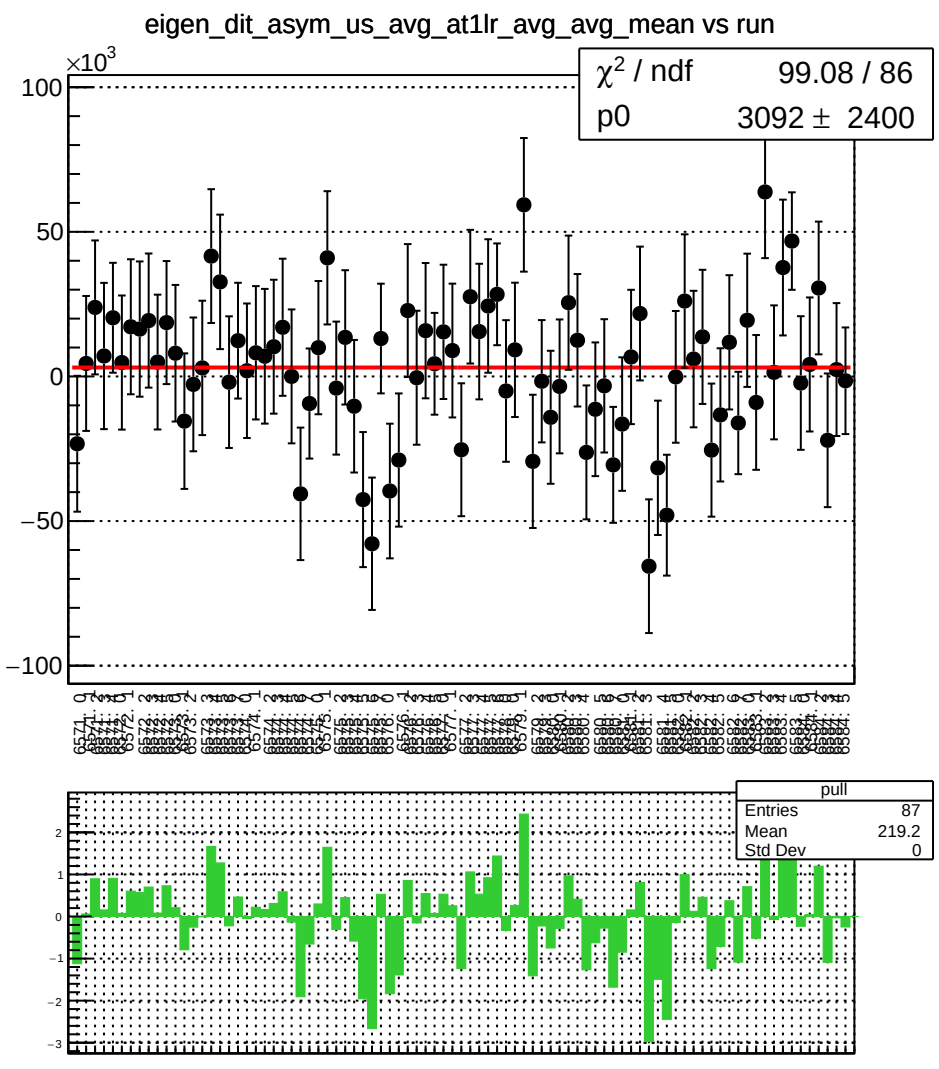

pull1D
Entries 87
Mean −0.008784
Std Dev 1.067

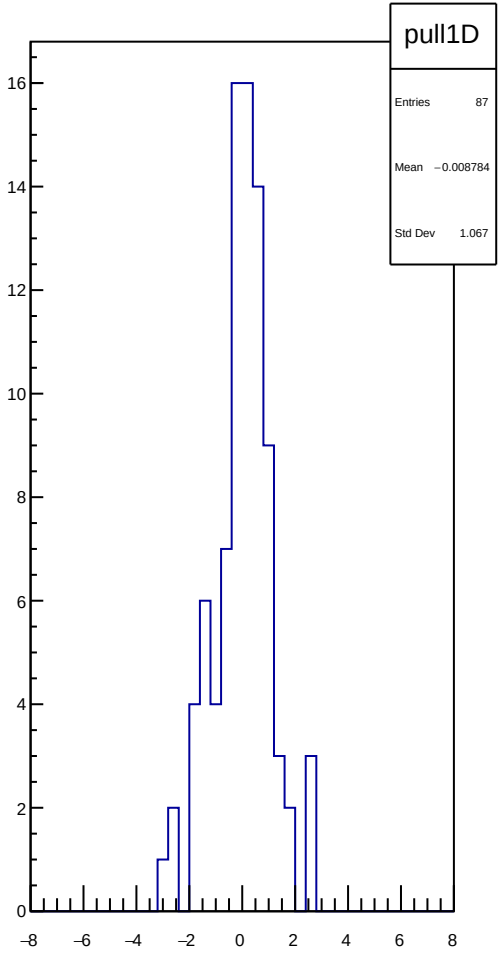

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 701.6 / 86
p0 2203 ± 1.697
2500
2450
2400
2350
2300
2250
2200
2150

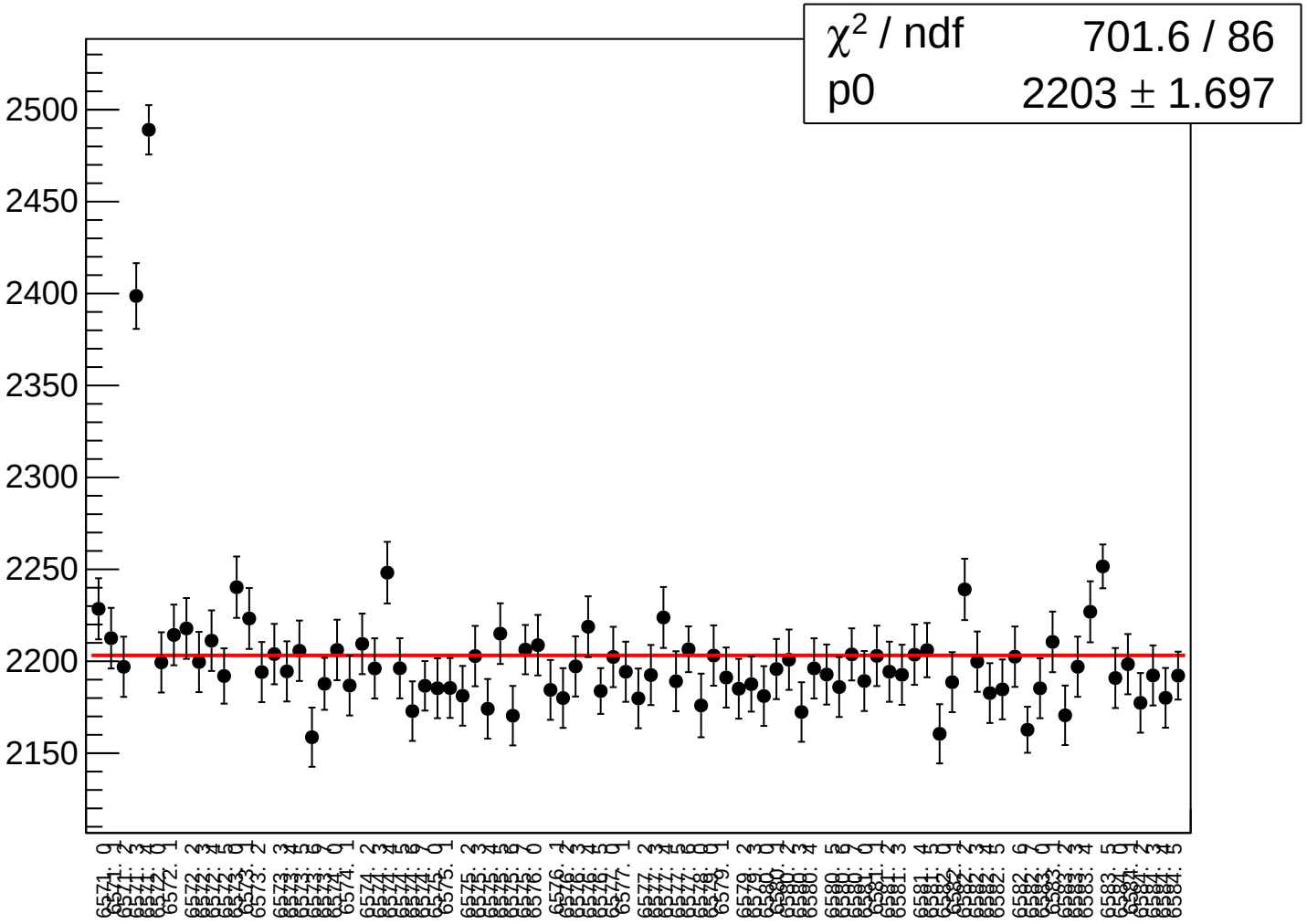

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.17 / 86
p0 1973 ± 2623
pull
Entries 87
Mean −710.4
Std Dev 0

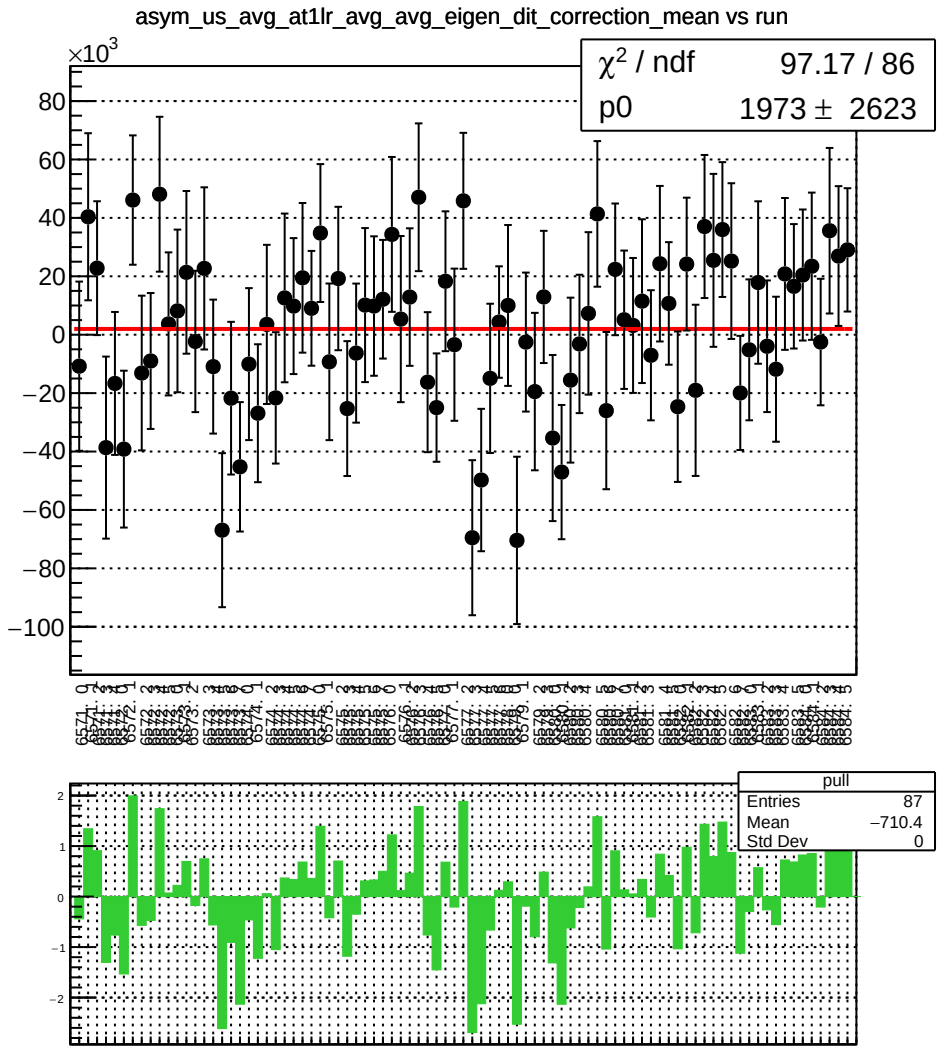

pull1D
Entries 87
Mean −0.005708
Std Dev 1.057

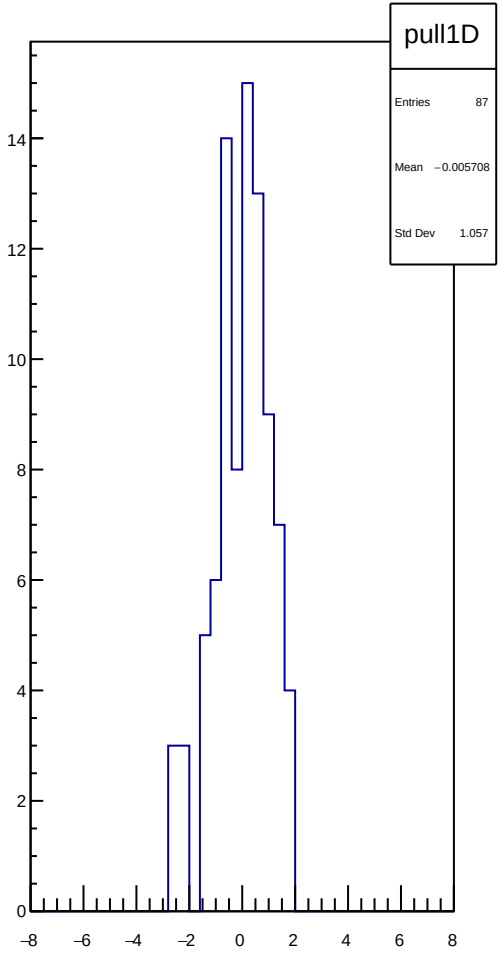

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.313e+04 / 86
p0 2399 ± 1.855
3200
3000
2800
2600
2400
2200
2000

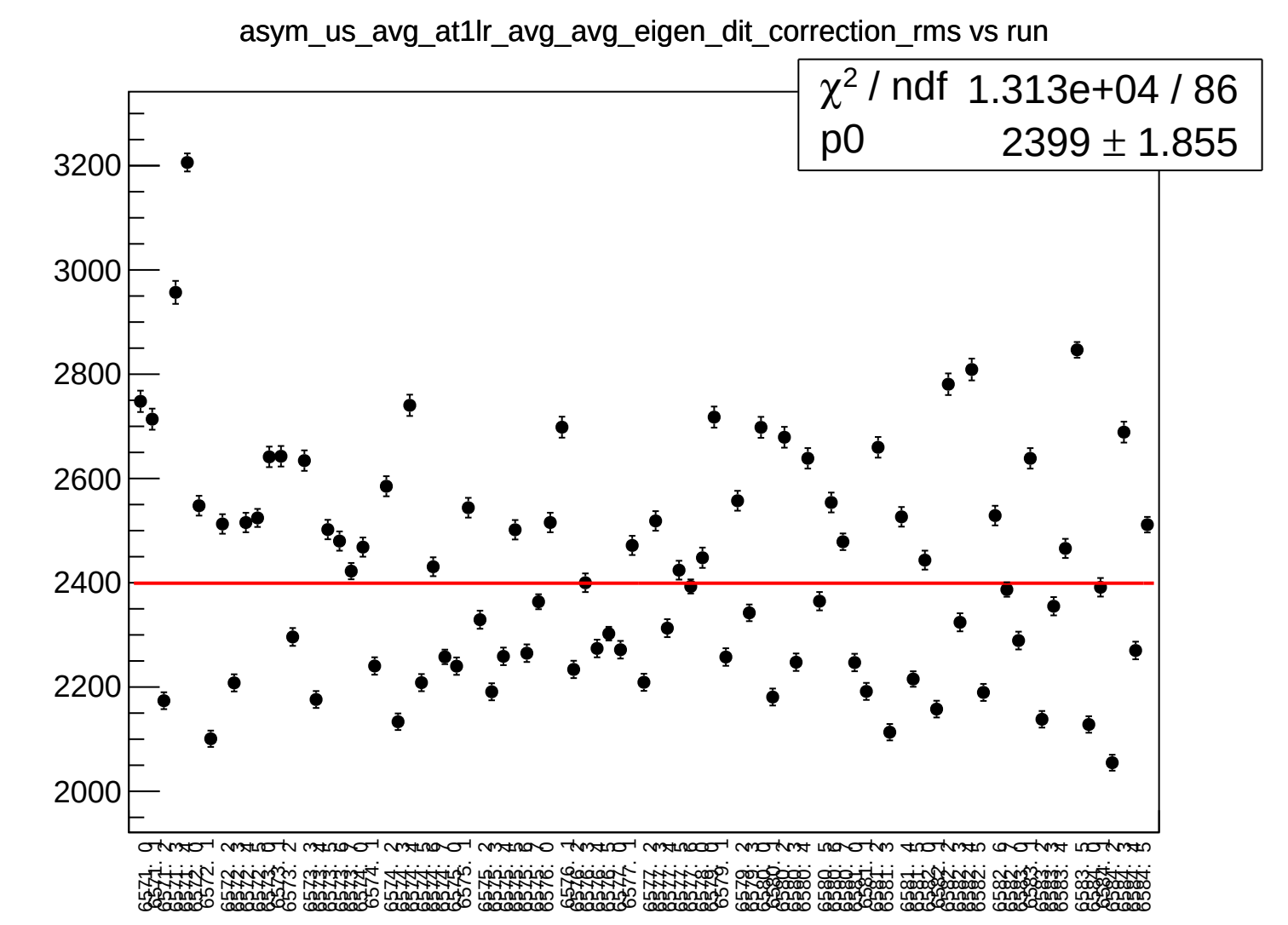

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 99.08 / 86
p0 3092 ± 2400
pull
Entries 87
Mean 219.2
Std Dev 0

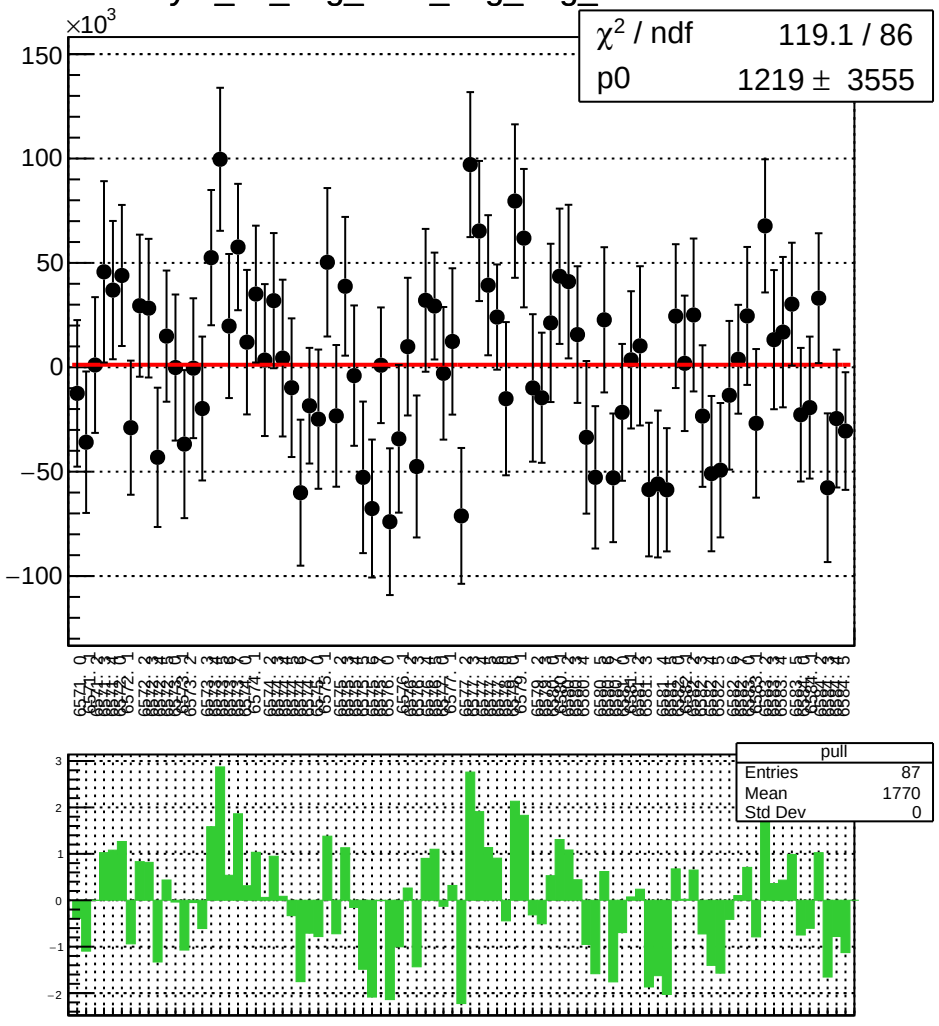

pull1D
Entries 87
Mean −0.008784
Std Dev 1.067

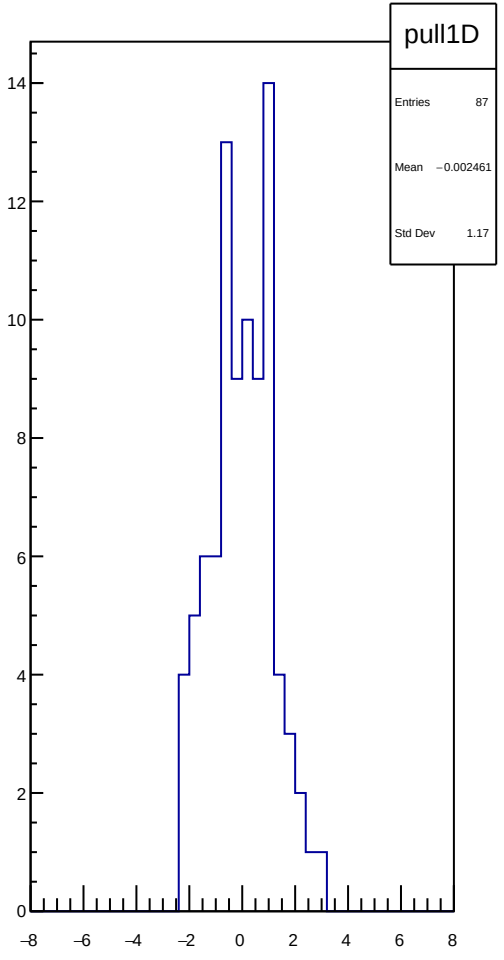

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 701.6 / 86
p0 2203 ± 1.697
2500
2450
2400
2350
2300
2250
2200
2150

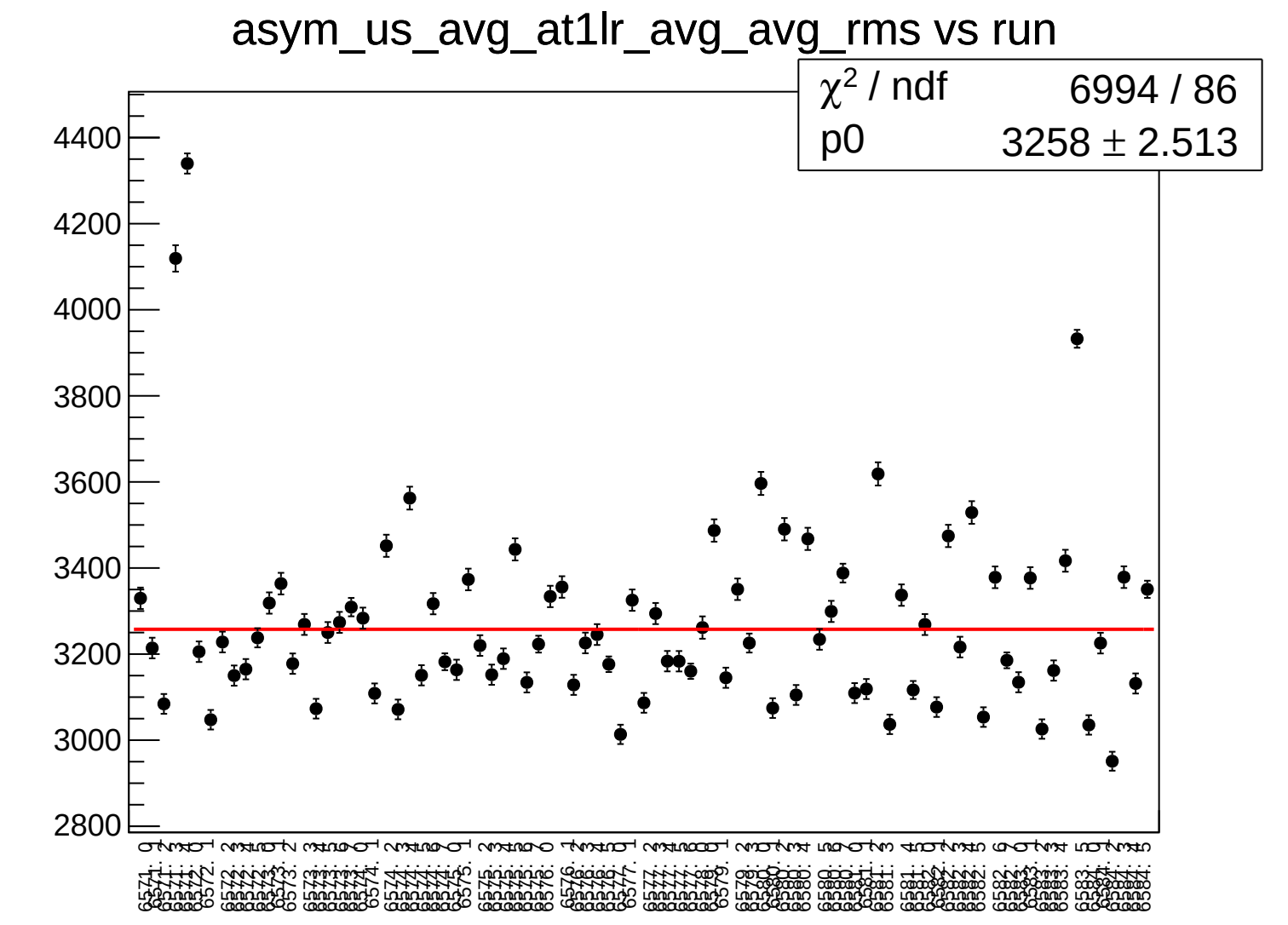

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.17 / 86
p0 1973 ± 2623
pull
Entries 87
Mean −710.4
Std Dev 0

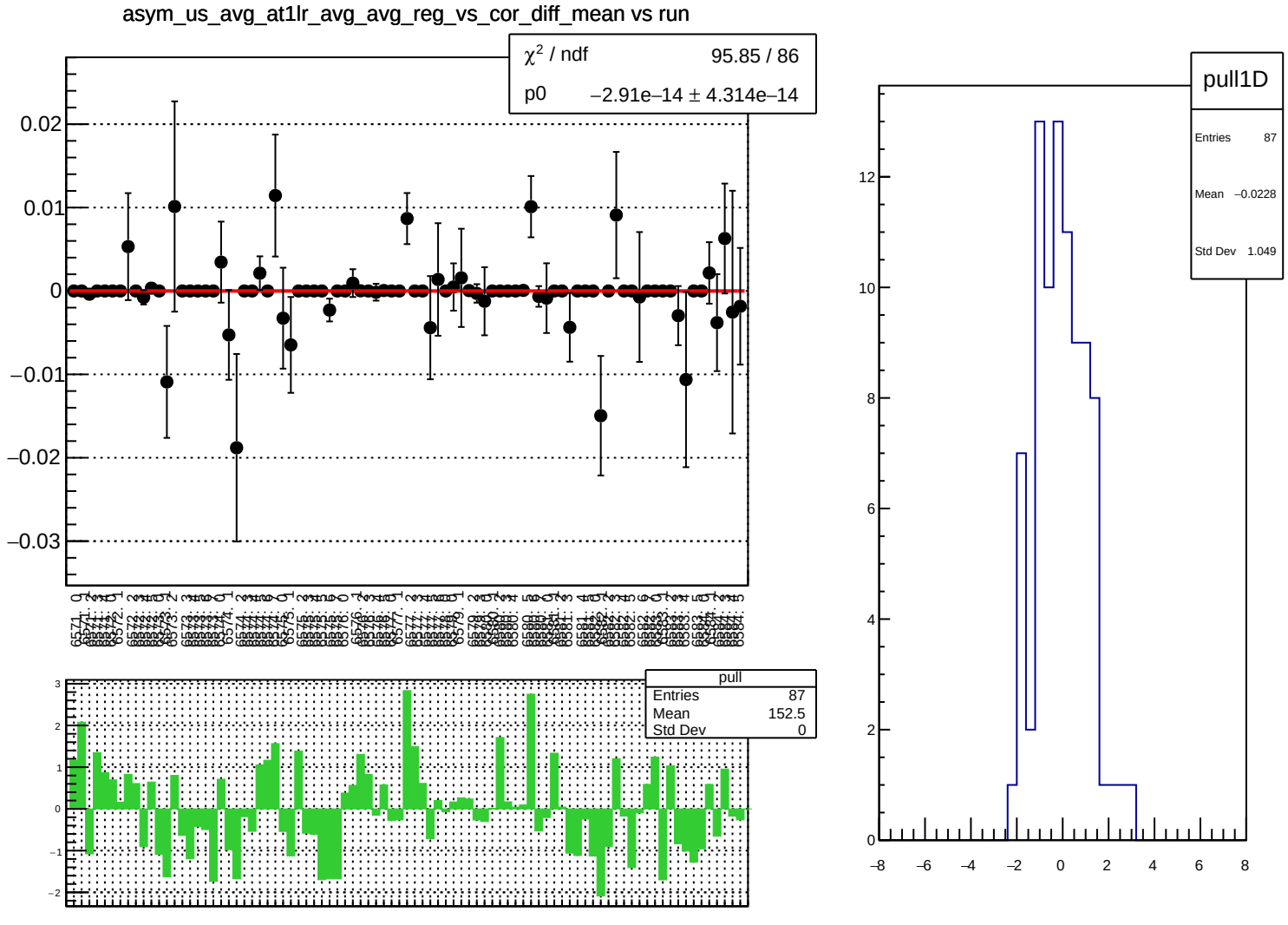

pull1D
Entries 87
Mean −0.005708
Std Dev 1.057

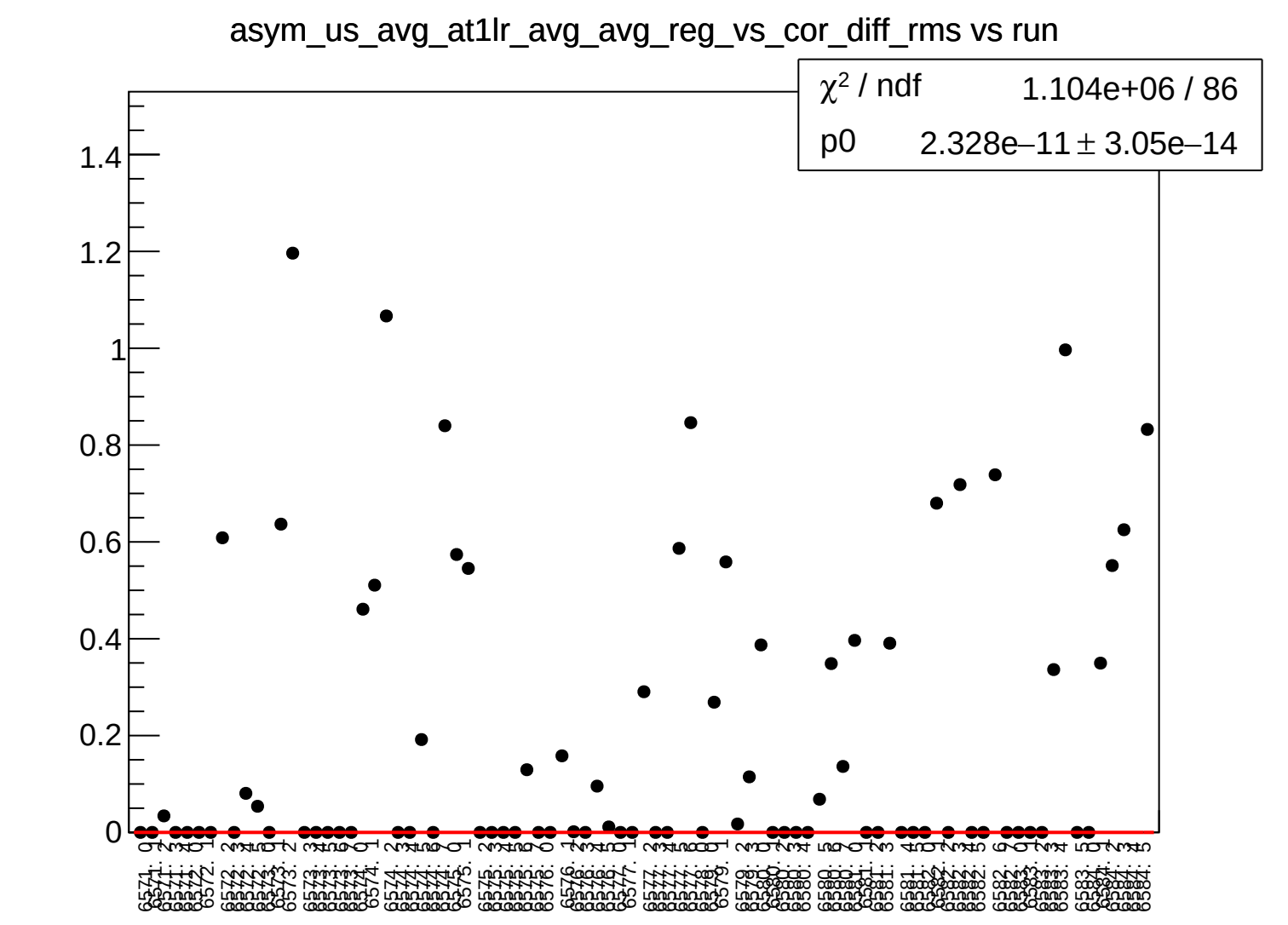

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.313e+04 / 86
p0 2399 ± 1.855
3200
3000
2800
2600
2400
2200
2000

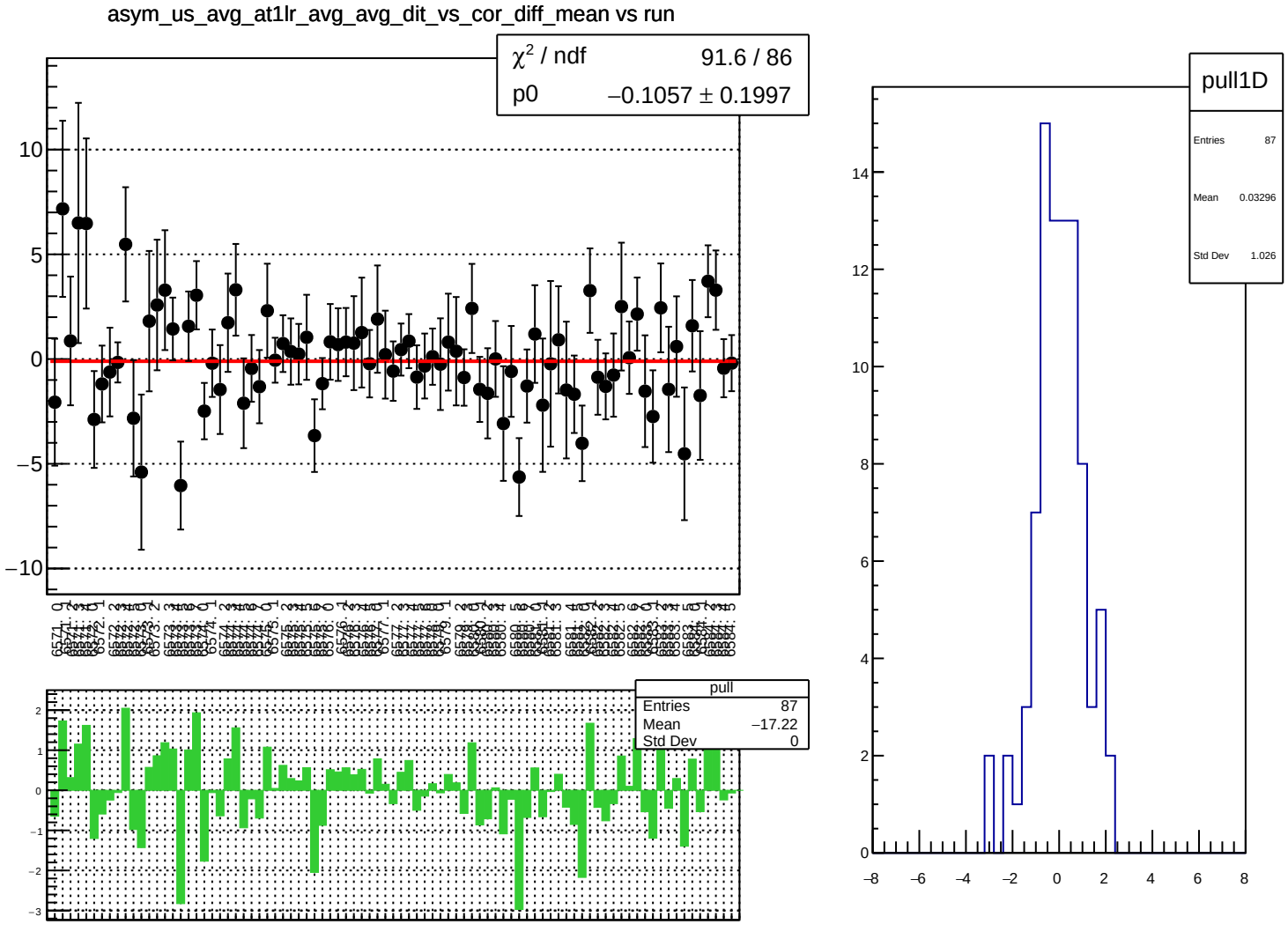

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 119.1 / 86
p0 1219 ± 3555
150
100
50
0
−50
−100
pull
Entries 87
Mean 1770
Std Dev 0
3
2
1
0
−1
−2

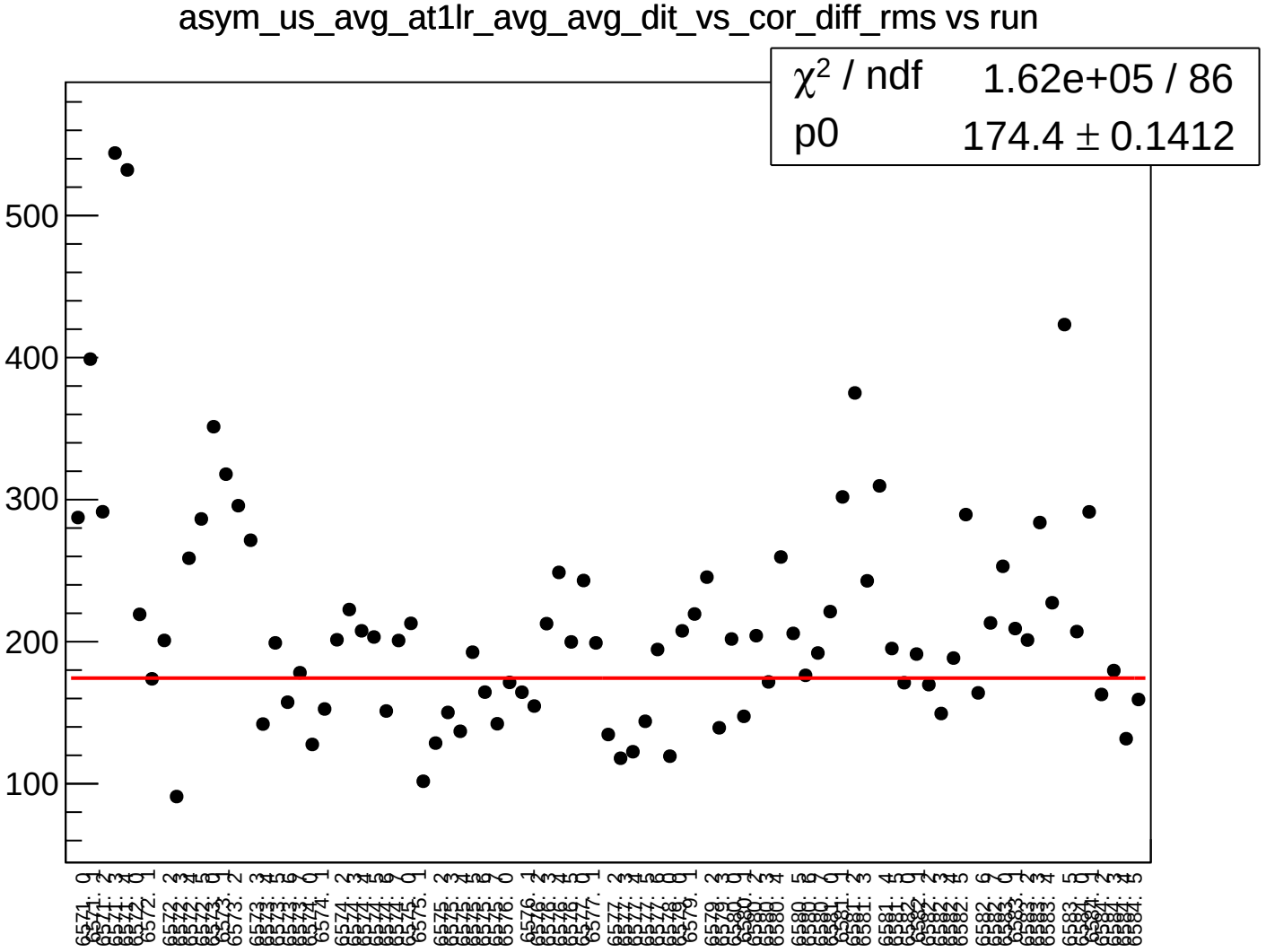

pull1D
Entries 87
Mean −0.002461
Std Dev 1.17
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

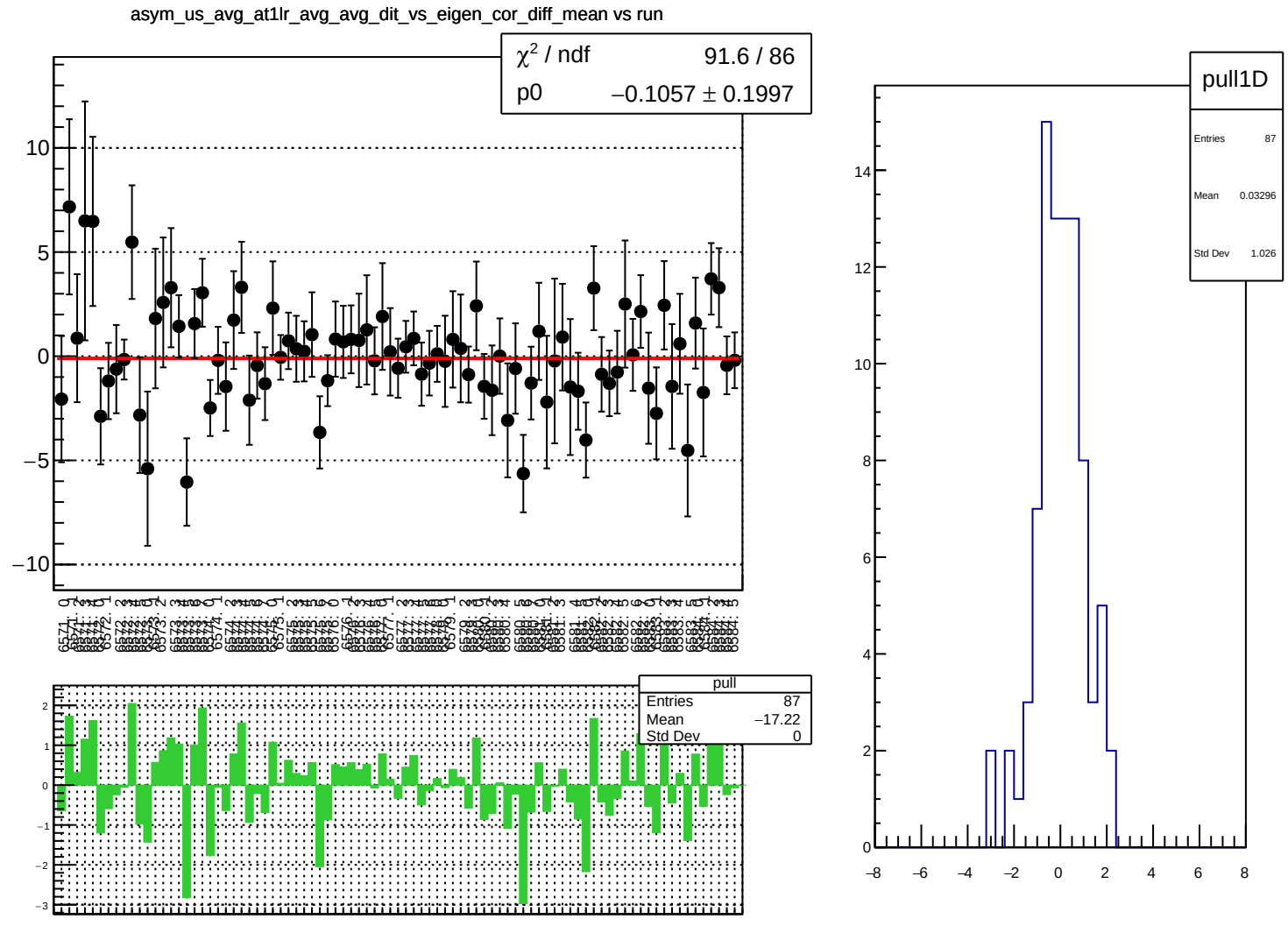

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 6994 / 86
p0 3258 ± 2.513
4400
4200
4000
3800
3600
3400
3200
3000
2800

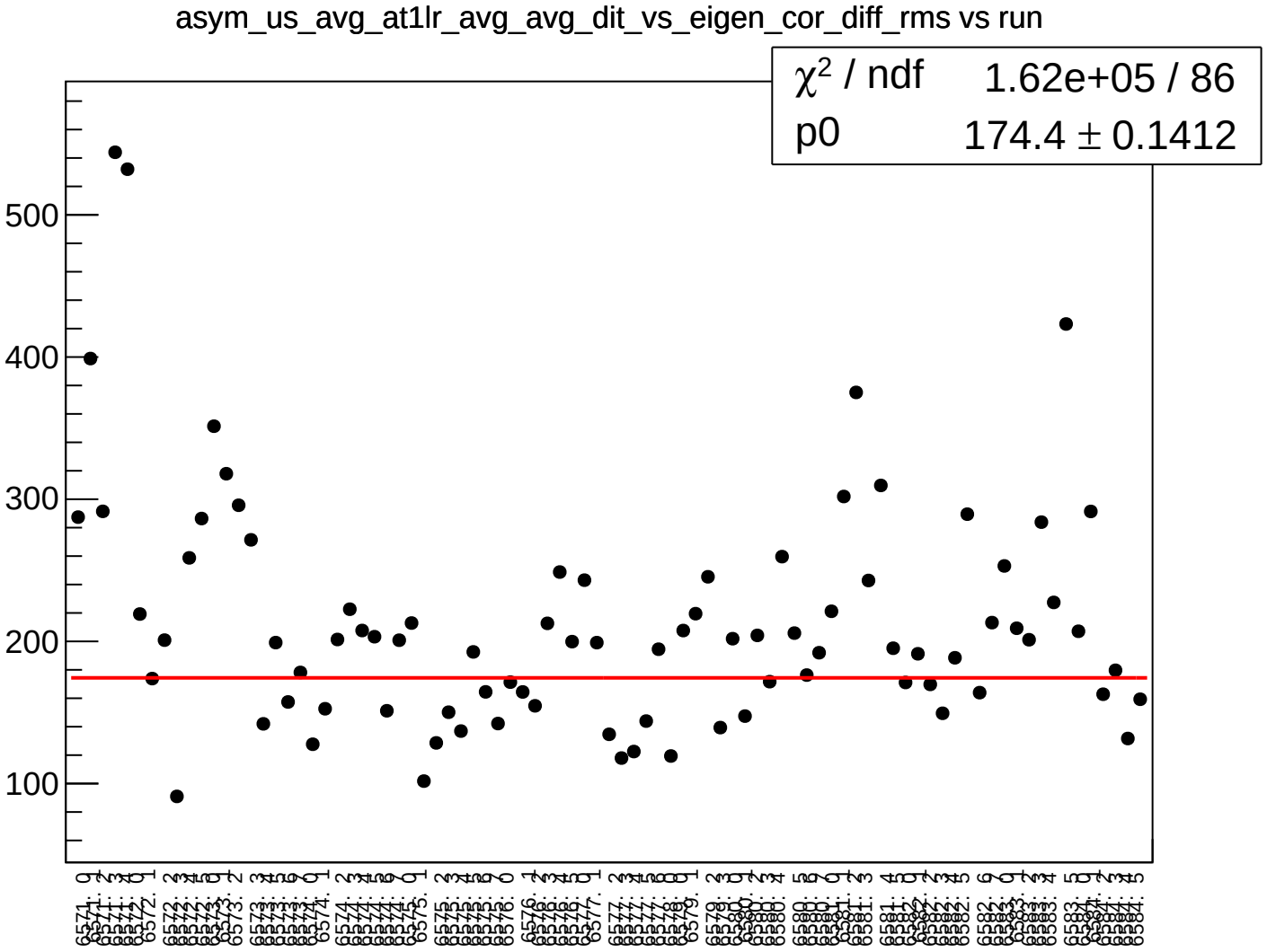

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.85 / 86
p0 −2.91e−14 ± 4.314e−14
pull
Entries 87
Mean 152.5
Std Dev 0
pull1D
Entries 87
Mean −0.0228
Std Dev 1.049

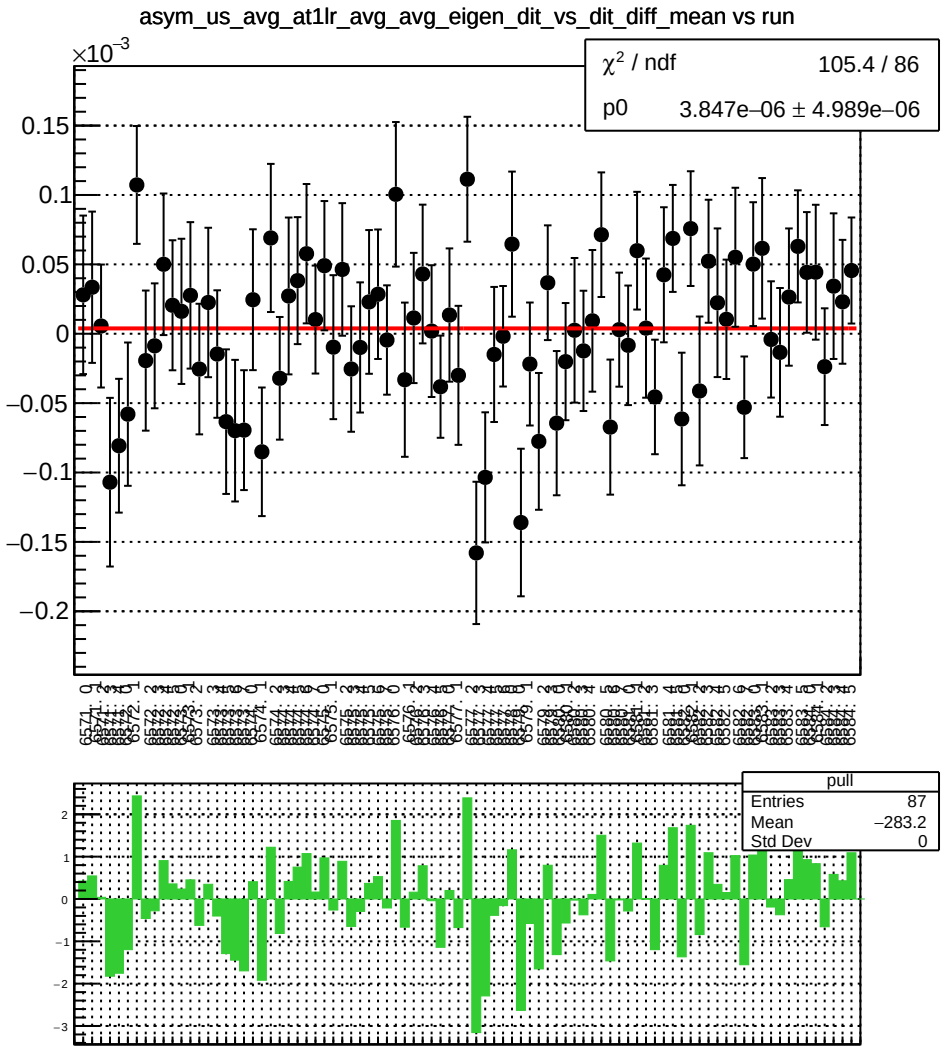

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.104e+06 / 86
p0 2.328e−11 ± 3.05e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

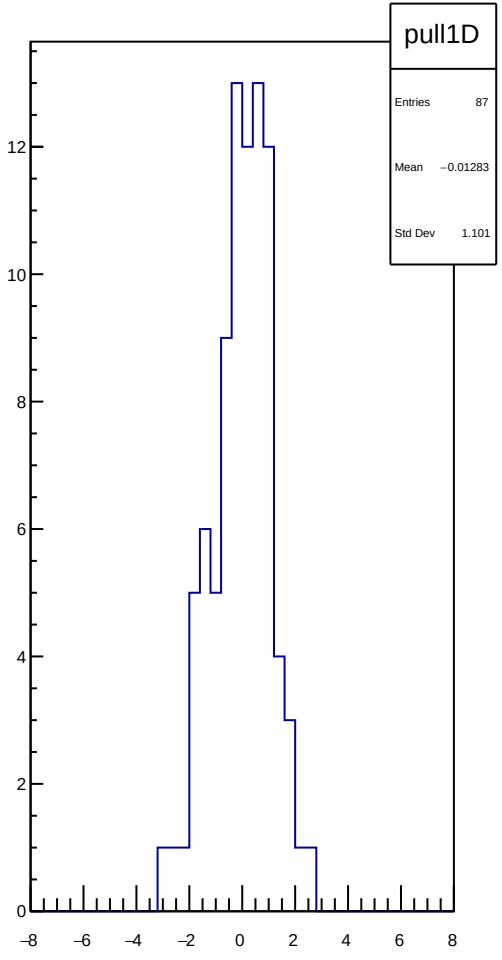

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.6 / 86
p0 −0.1057 ± 0.1997
pull
Entries 87
Mean −17.22
Std Dev 0
pull1D
Entries 87
Mean 0.03296
Std Dev 1.026

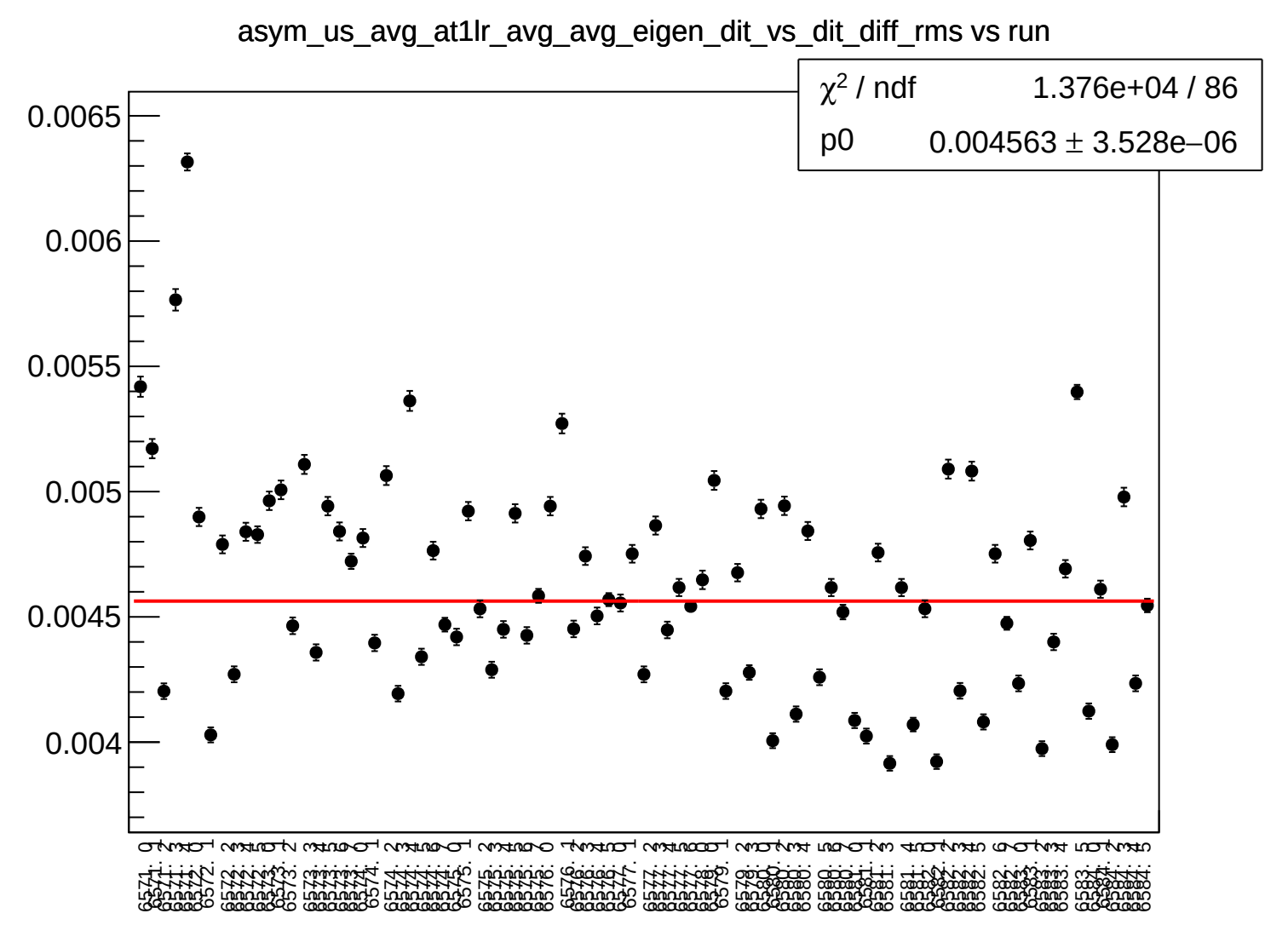

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.62e+05 / 86
p0 174.4 ± 0.1412
500
400
300
200
100

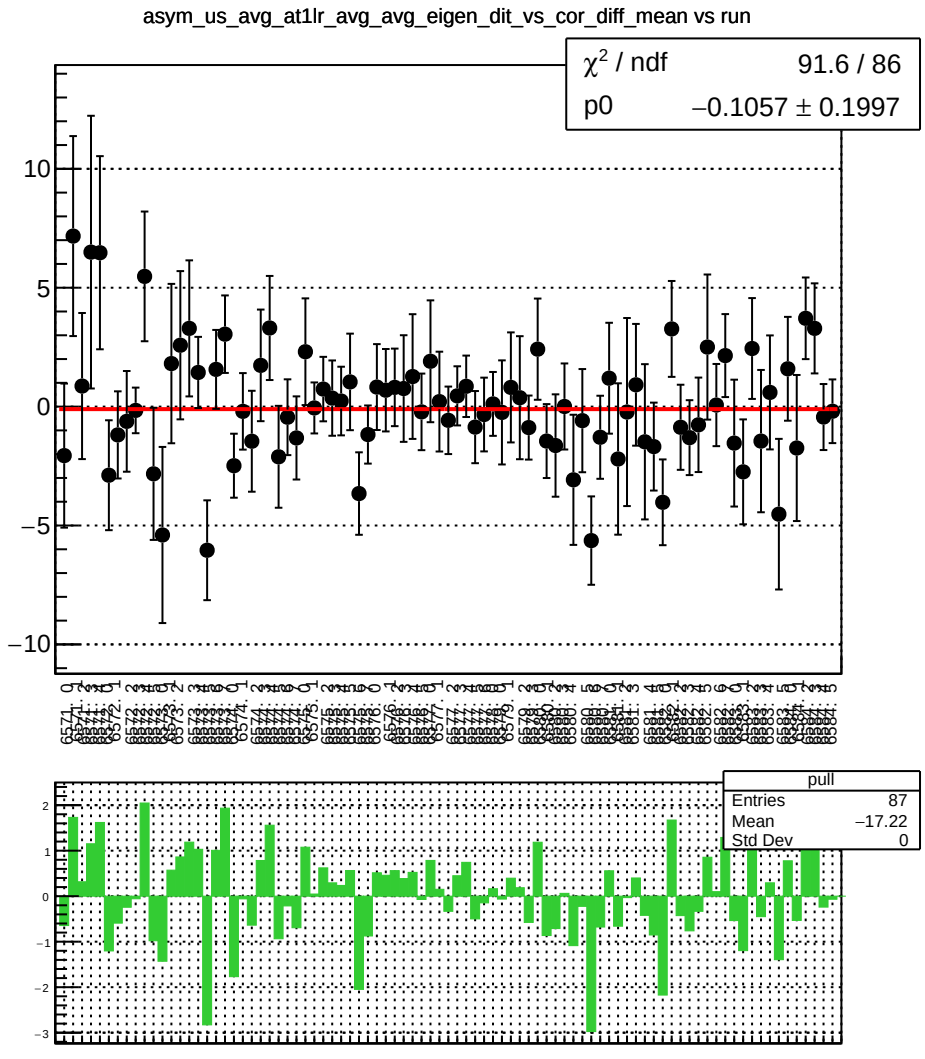

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.6 / 86
p0 −0.1057 ± 0.1997
pull
Entries 87
Mean −17.22
Std Dev 0
pull1D
Entries 87
Mean 0.03296
Std Dev 1.026

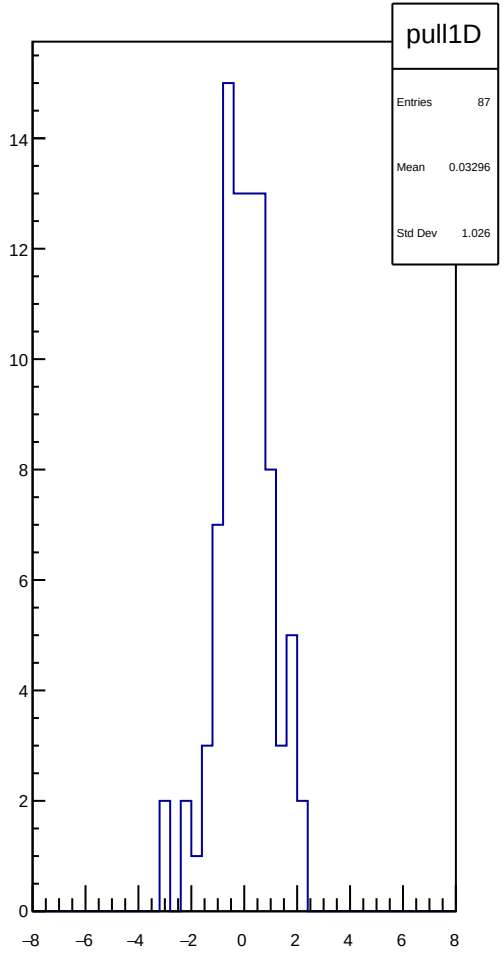

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.62e+05 / 86
p0 174.4 ± 0.1412
500
400
300
200
100

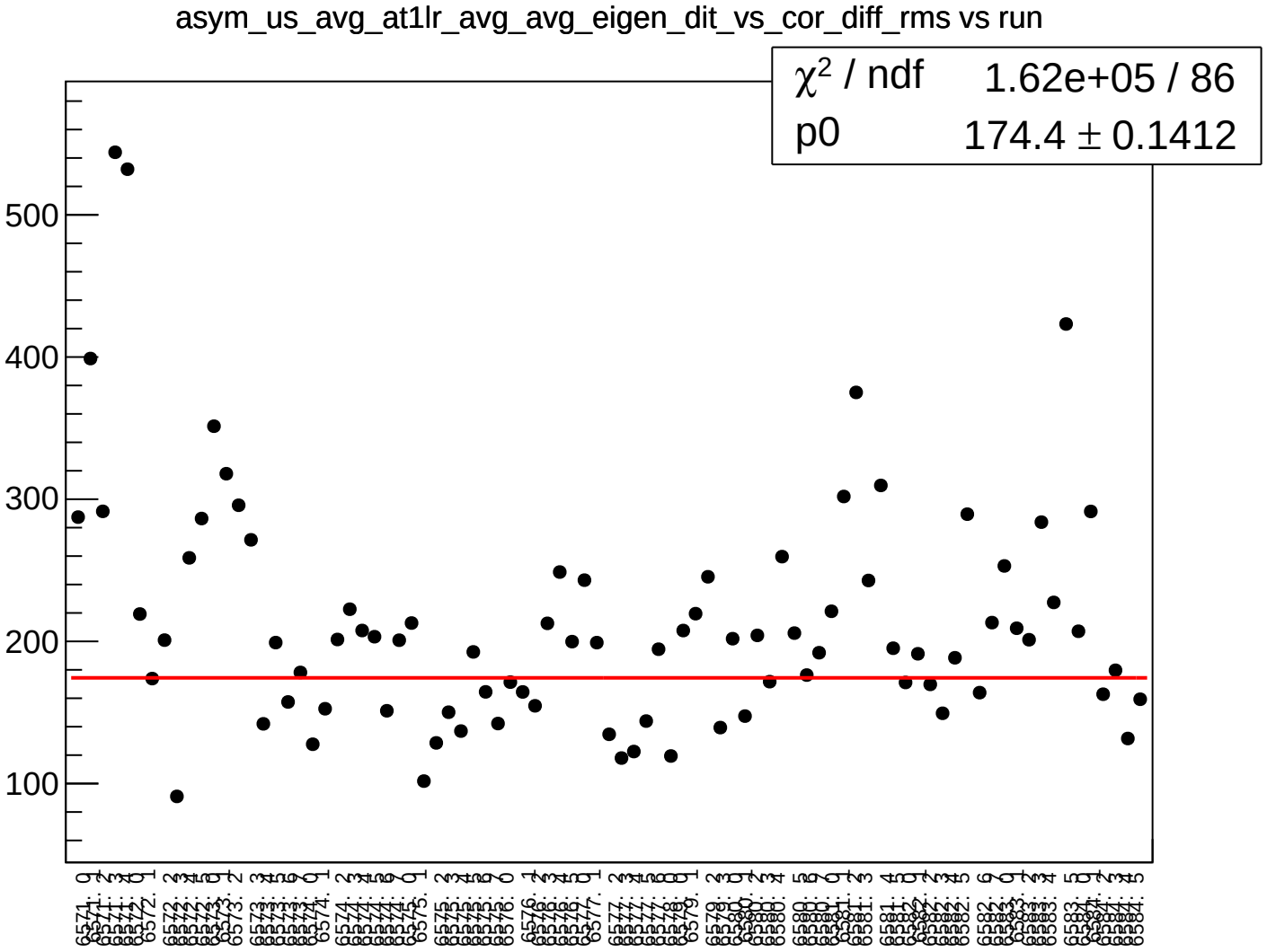

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.4 / 86
p0 3.847e−06 ± 4.989e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 87
Mean −283.2
Std Dev 0
2
1
0
−1
−2
−3

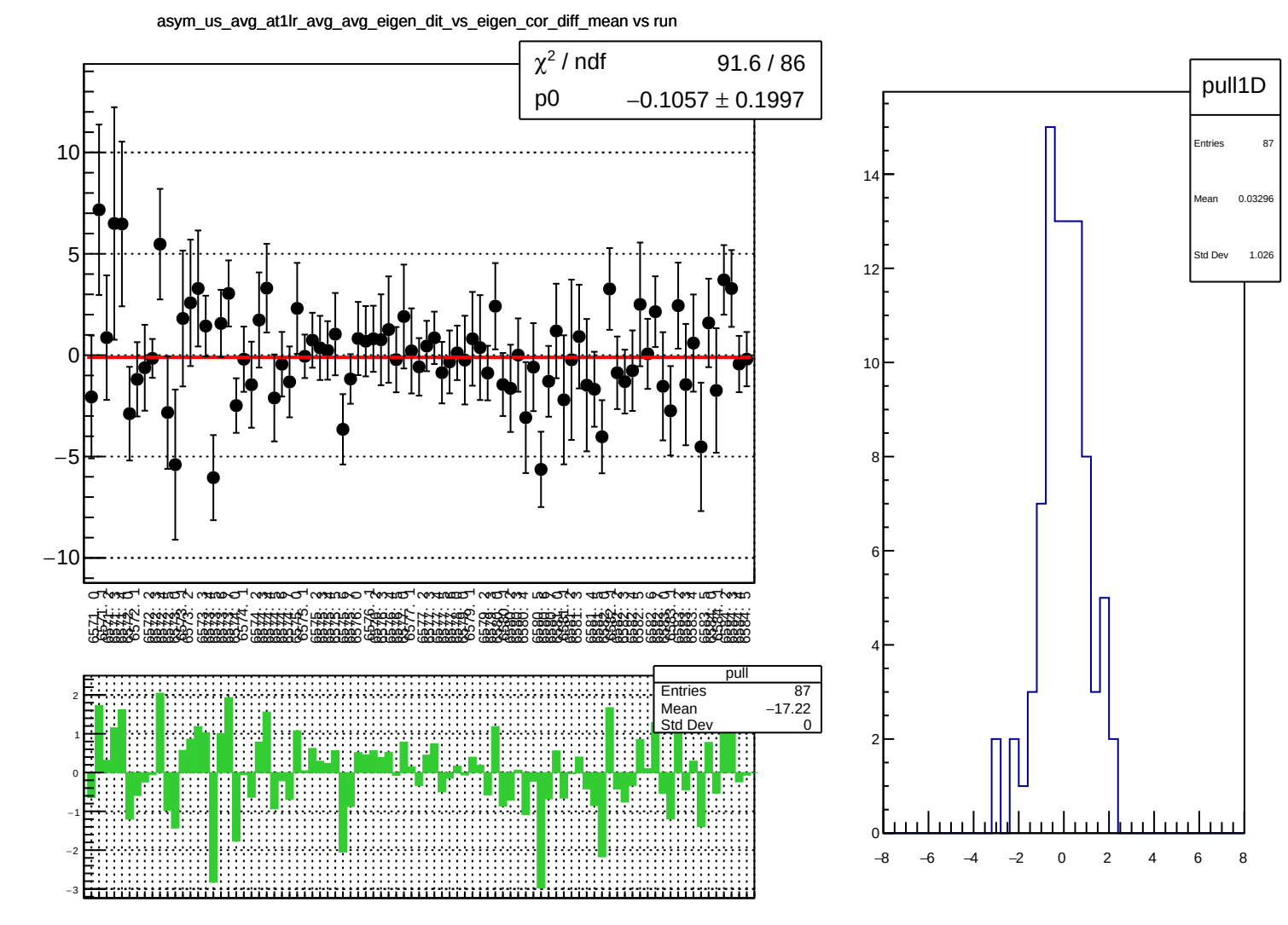

pull1D
Entries 87
Mean −0.01283
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

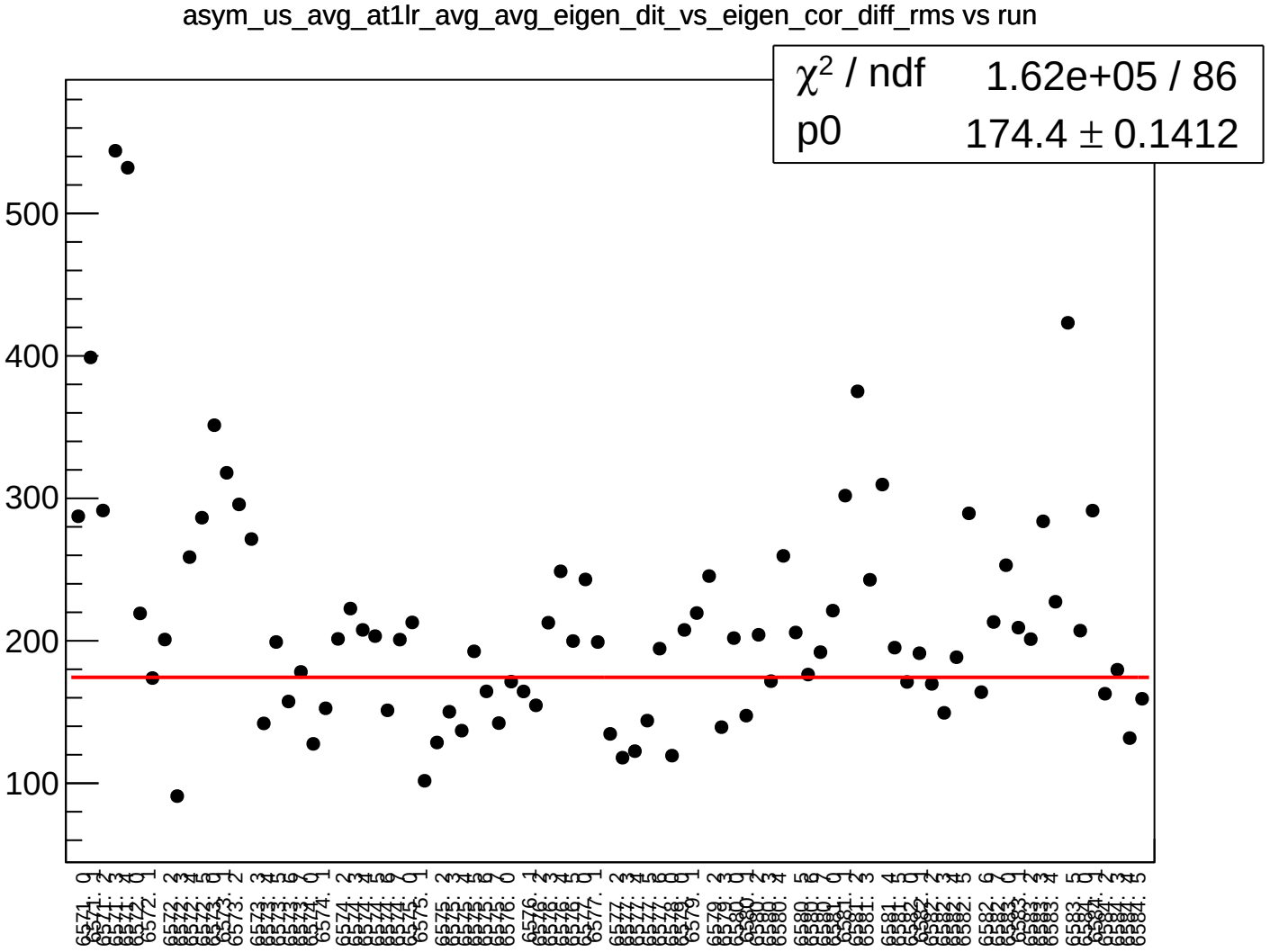

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.376e+04 / 86
p0 0.004563 ± 3.528e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004

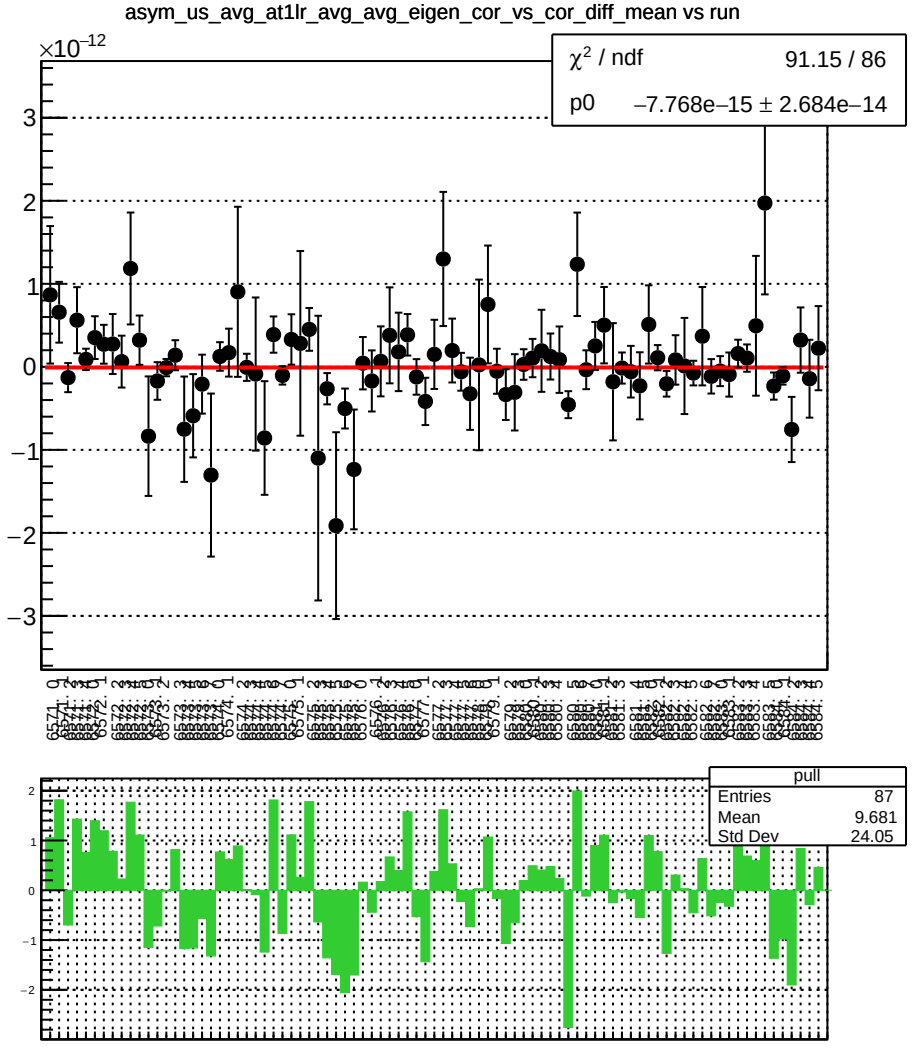

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.6 / 86
p0 −0.1057 ± 0.1997
pull
Entries 87
Mean −17.22
Std Dev 0

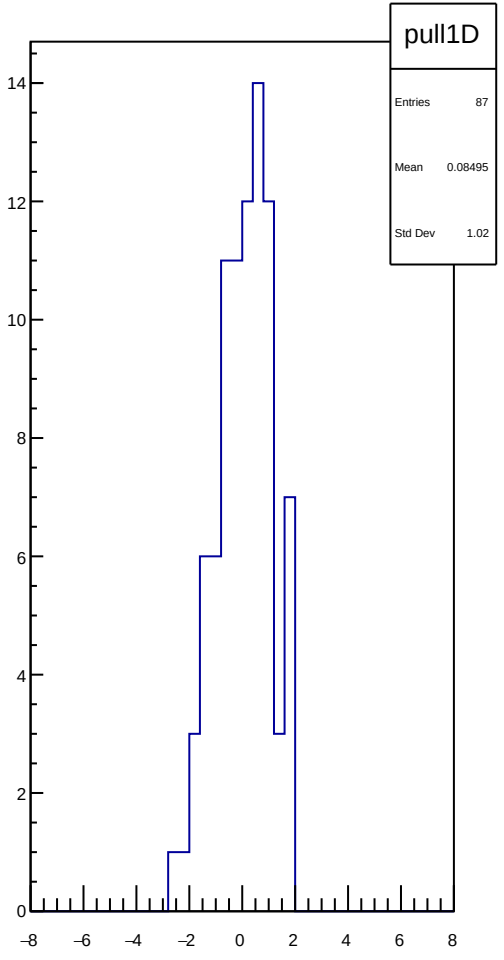

pull1D
Entries 87
Mean 0.03296
Std Dev 1.026

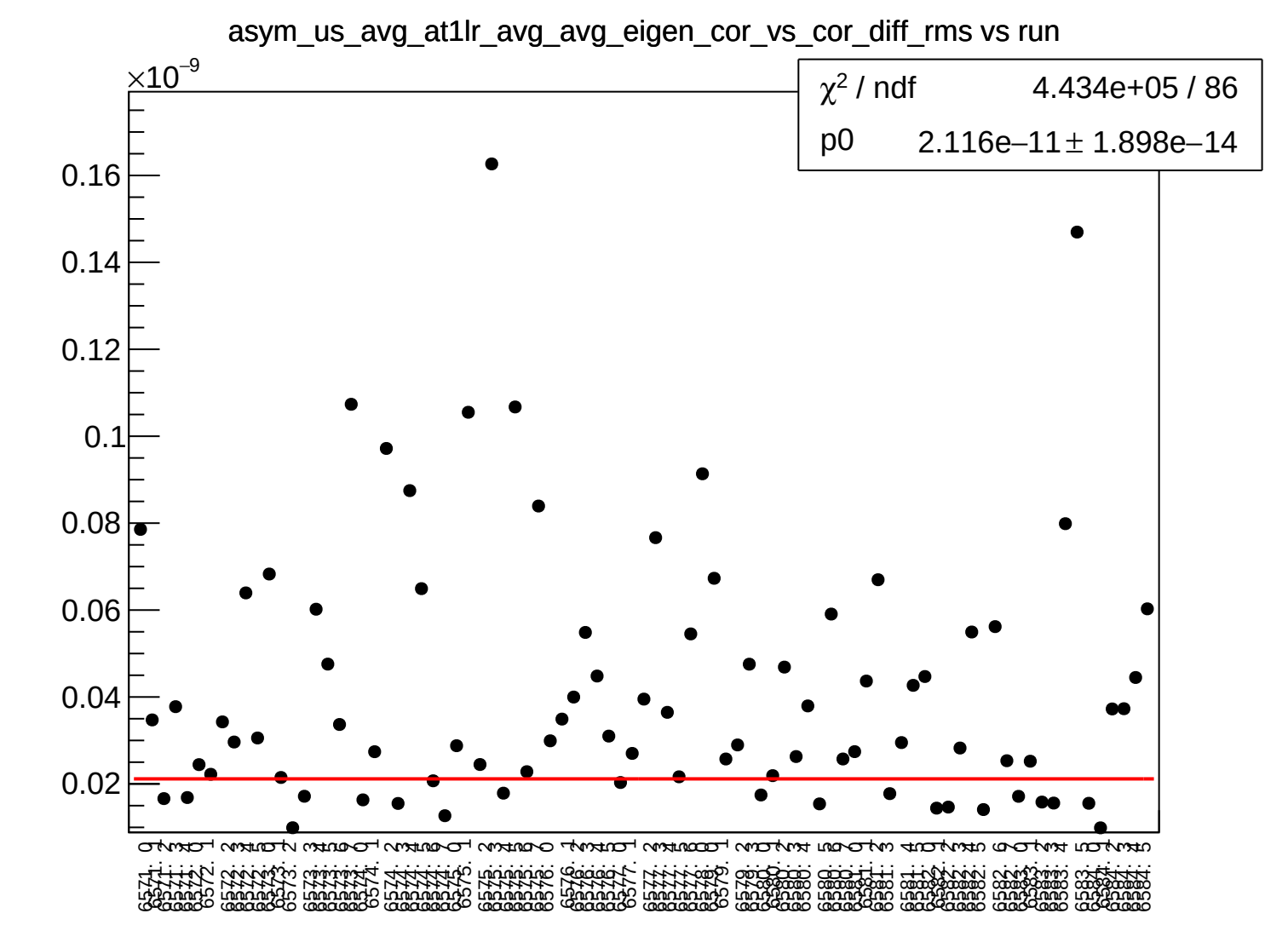

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.62e+05 / 86
p0 174.4 ± 0.1412
500
400
300
200
100

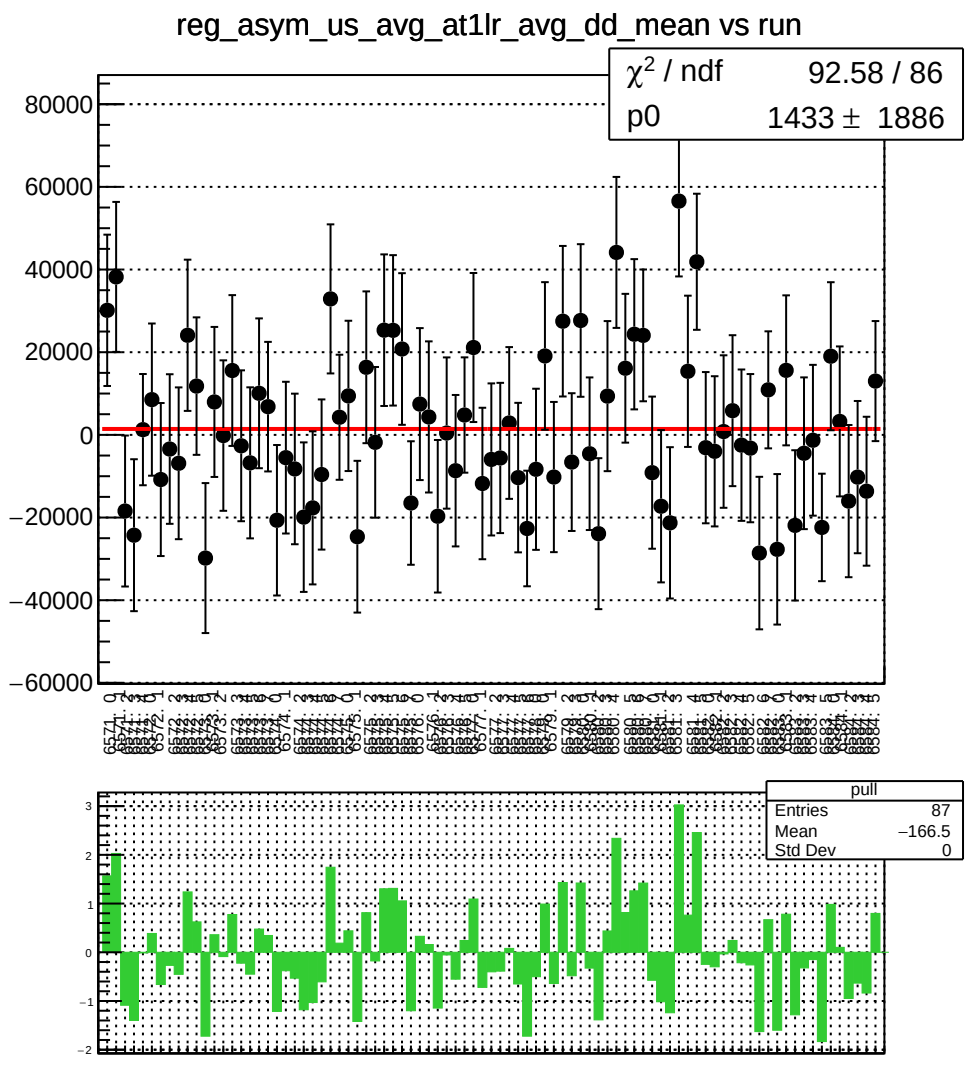

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.6 / 86
p0 −0.1057 ± 0.1997
pull
Entries 87
Mean −17.22
Std Dev 0
pull1D
Entries 87
Mean 0.03296
Std Dev 1.026

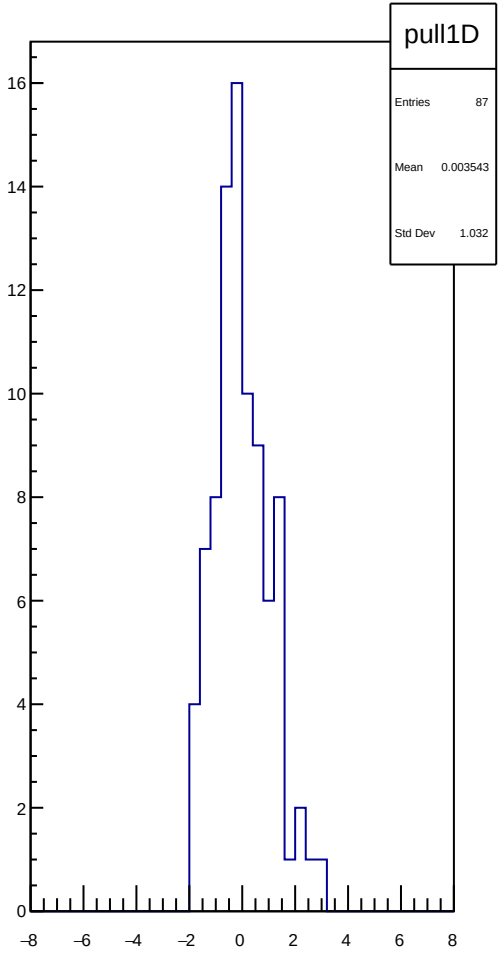

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.62e+05 / 86
p0 174.4 ± 0.1412
500
400
300
200
100

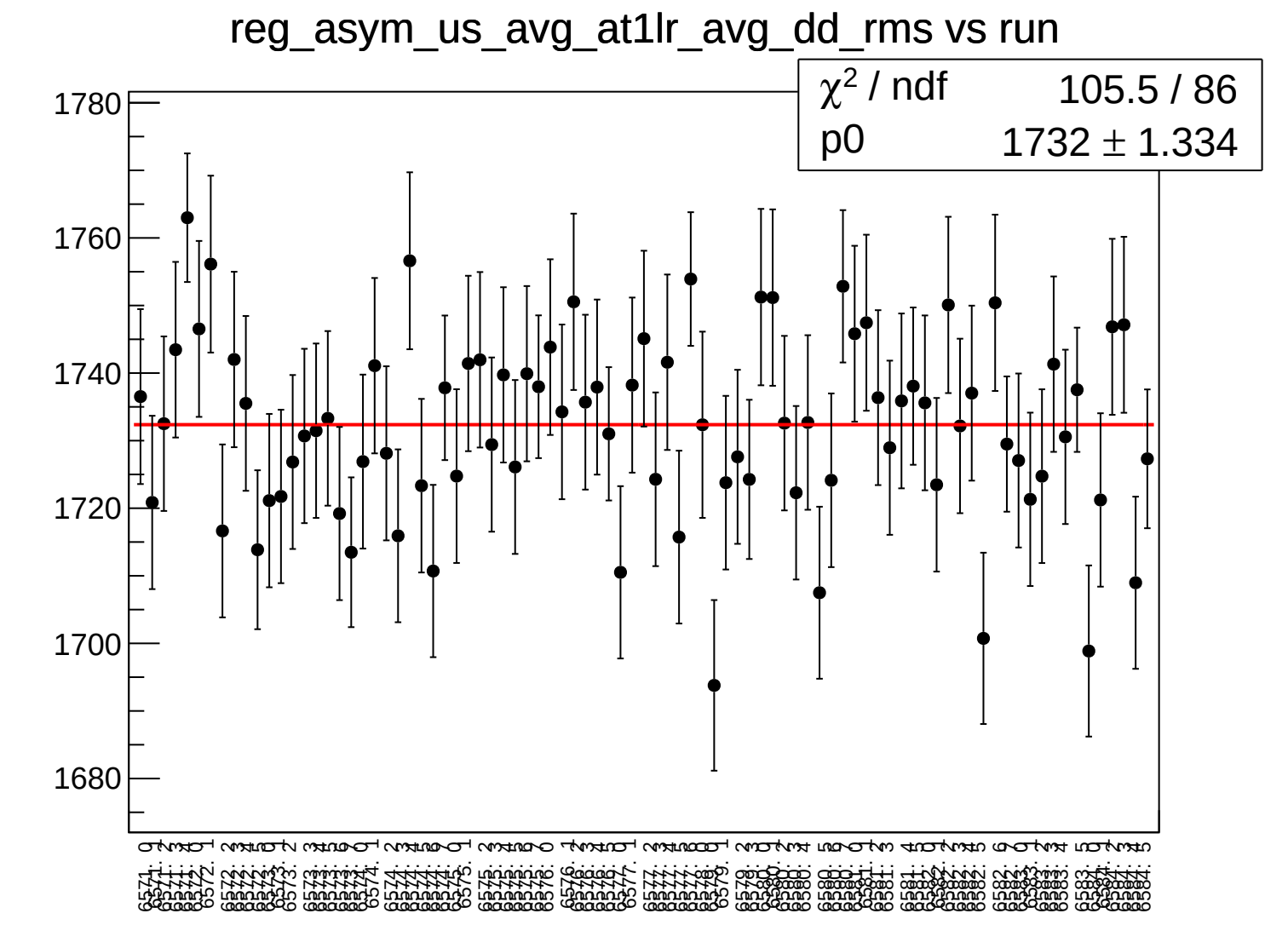

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.15 / 86
p0 −7.768e−15 ± 2.684e−14
pull
Entries 87
Mean 9.681
Std Dev 24.05

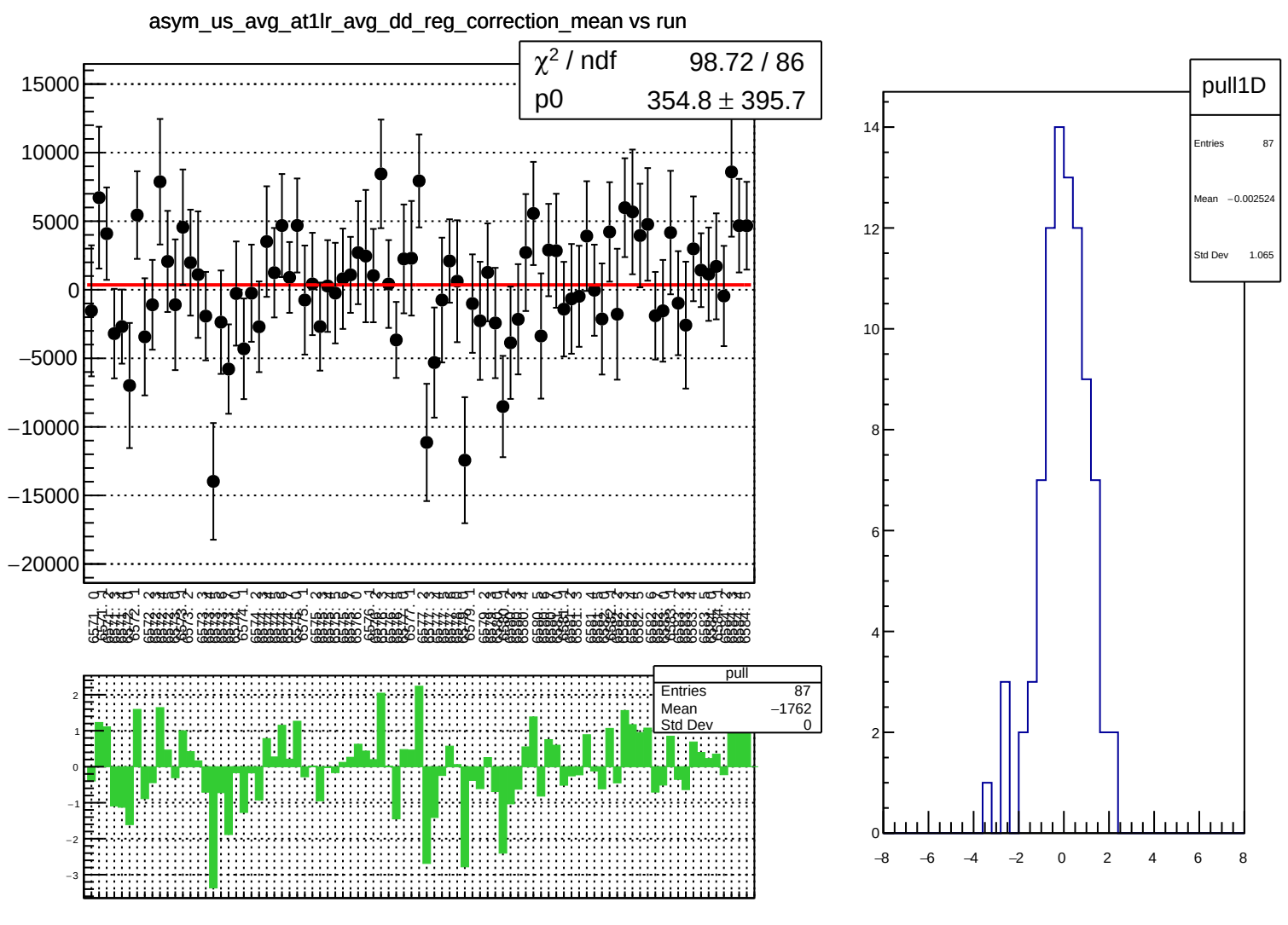

pull1D
Entries 87
Mean 0.08495
Std Dev 1.02

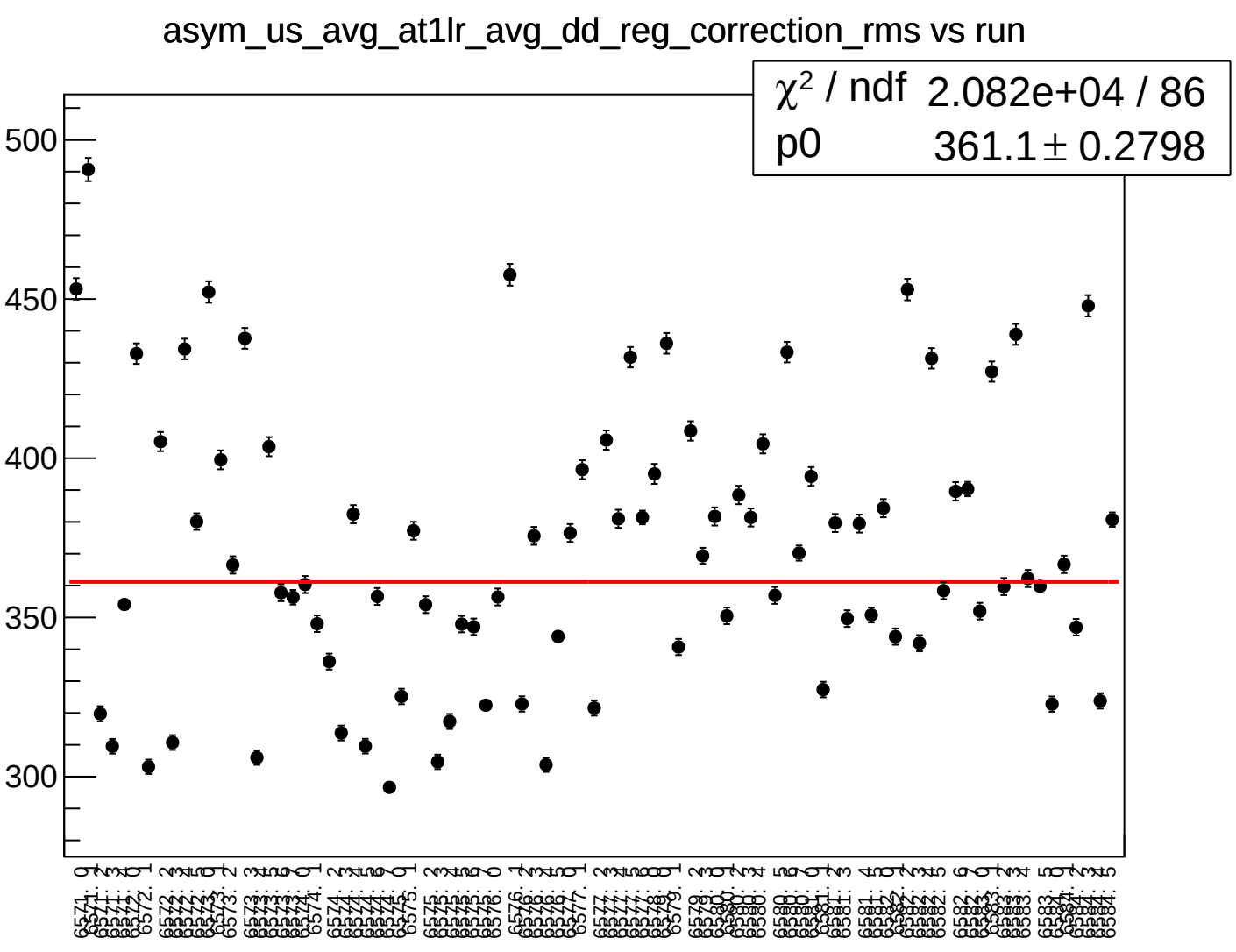

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.434e+05 / 86
p0 2.116e−11 ± 1.898e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

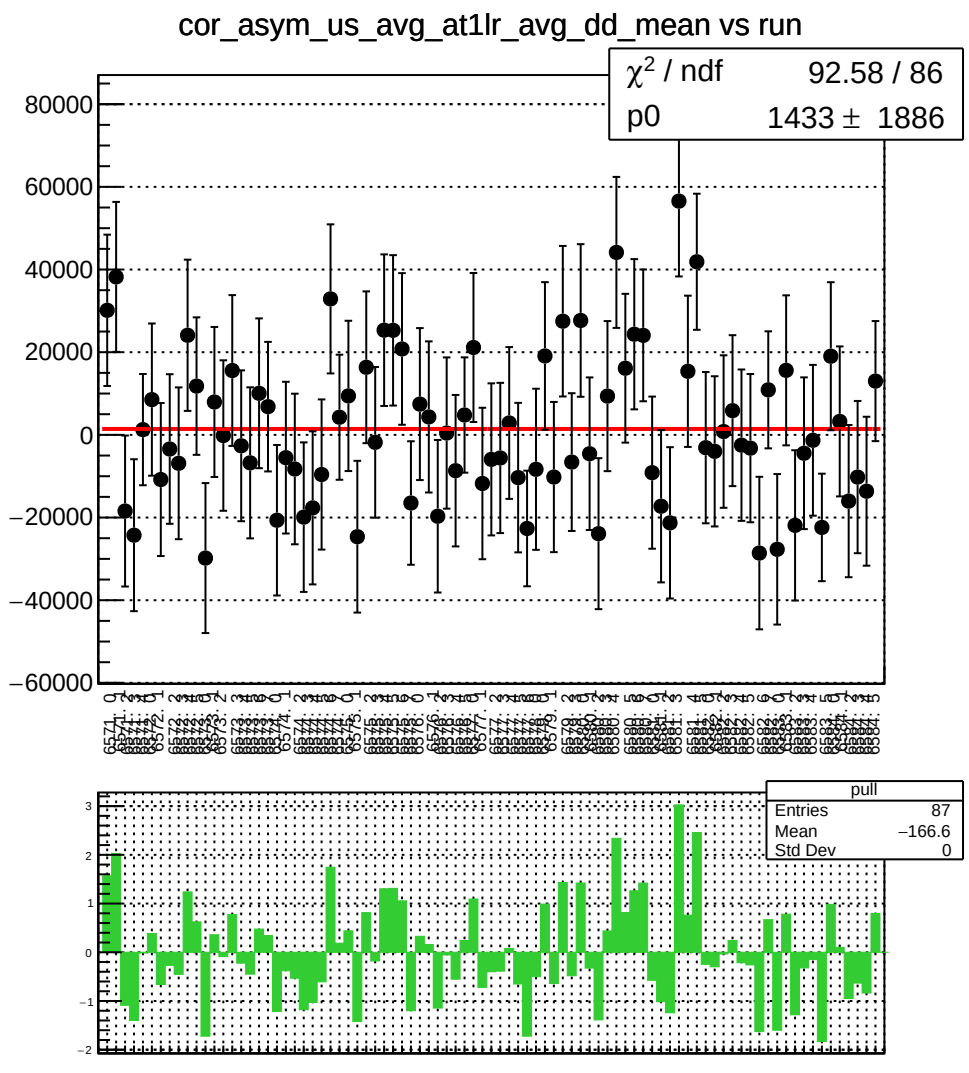

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 92.58 / 86
p0 1433 ± 1886
pull
Entries 87
Mean −166.5
Std Dev 0

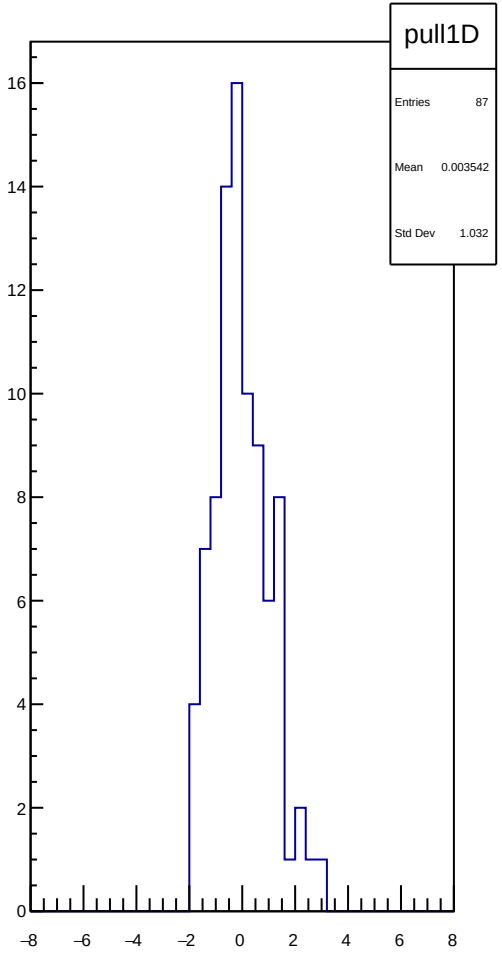

pull1D
Entries 87
Mean 0.003543
Std Dev 1.032

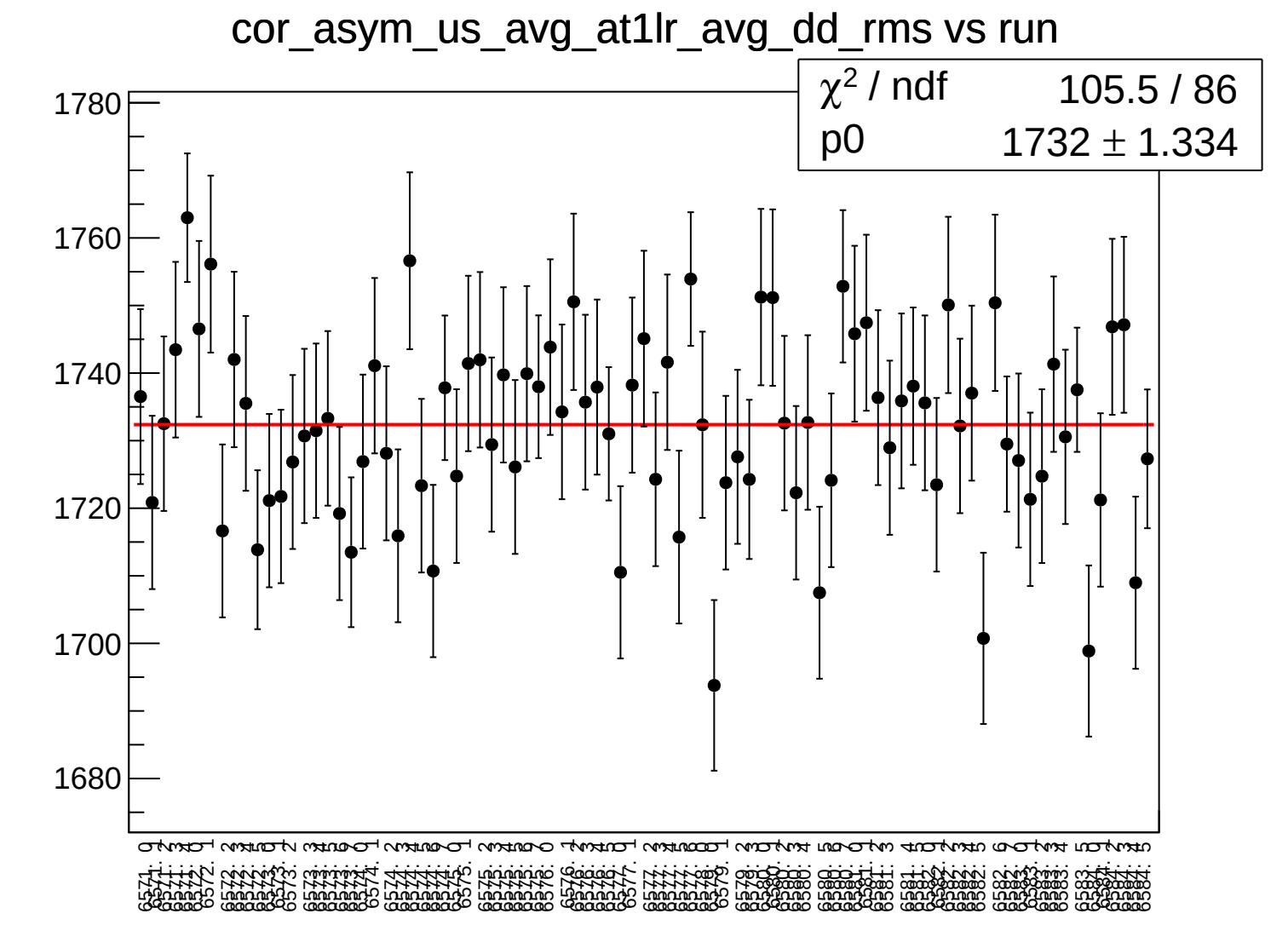

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 105.5 / 86
p0 1732 ± 1.334
1780
1760
1740
1720
1700
1680

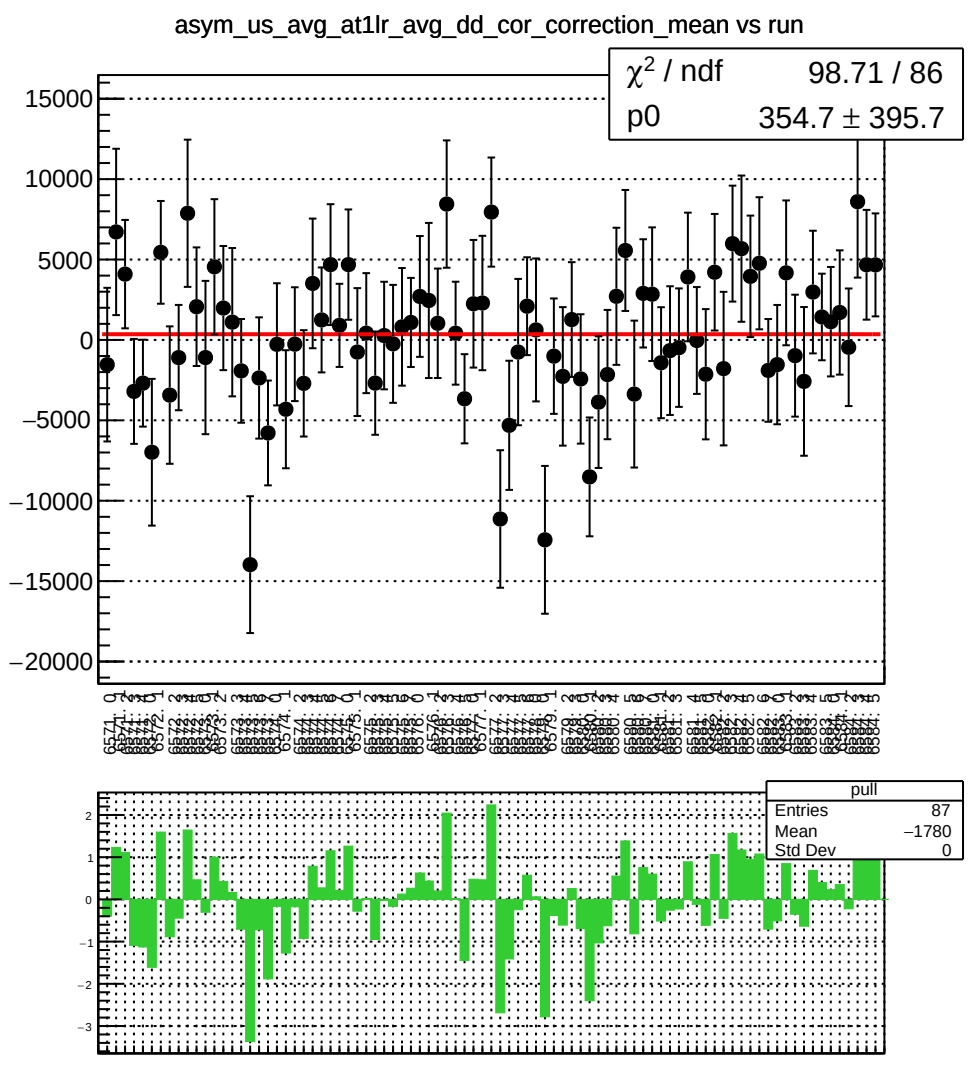

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 98.72 / 86
p0 354.8 ± 395.7
pull
Entries 87
Mean −1762
Std Dev 0
pull1D
Entries 87
Mean −0.002524
Std Dev 1.065

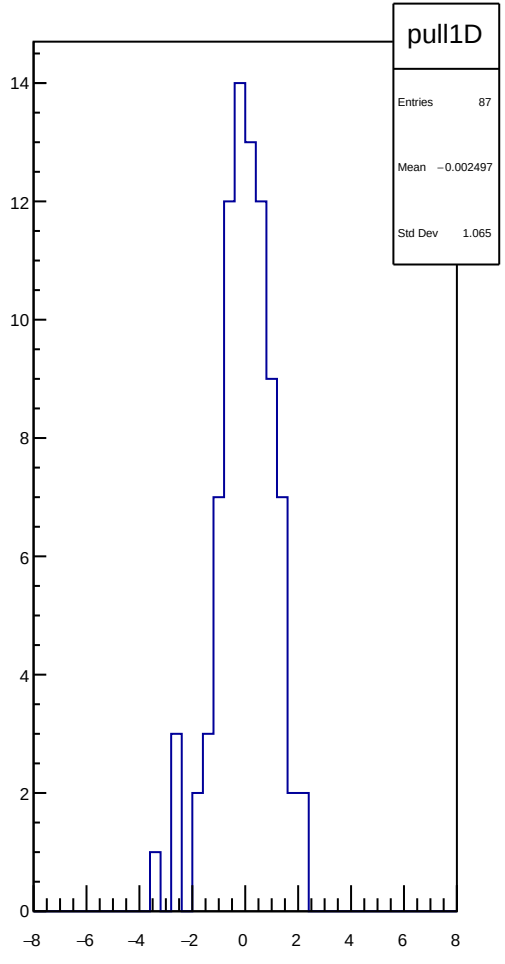

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.082e+04 / 86
p0 361.1 ± 0.2798
500
450
400
350
300

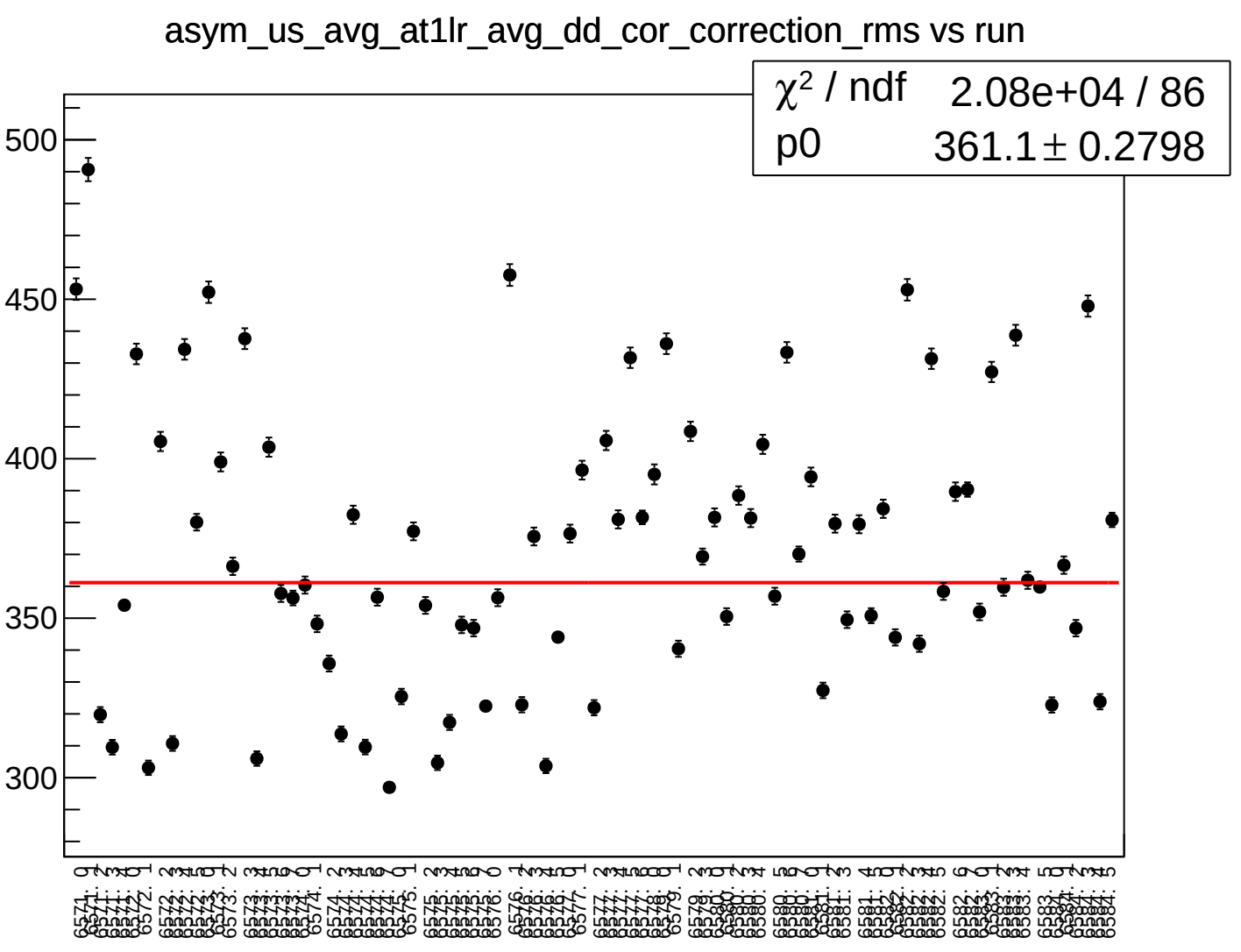

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 92.58 / 86
p0 1433 ± 1886
pull
Entries 87
Mean −166.6
Std Dev 0

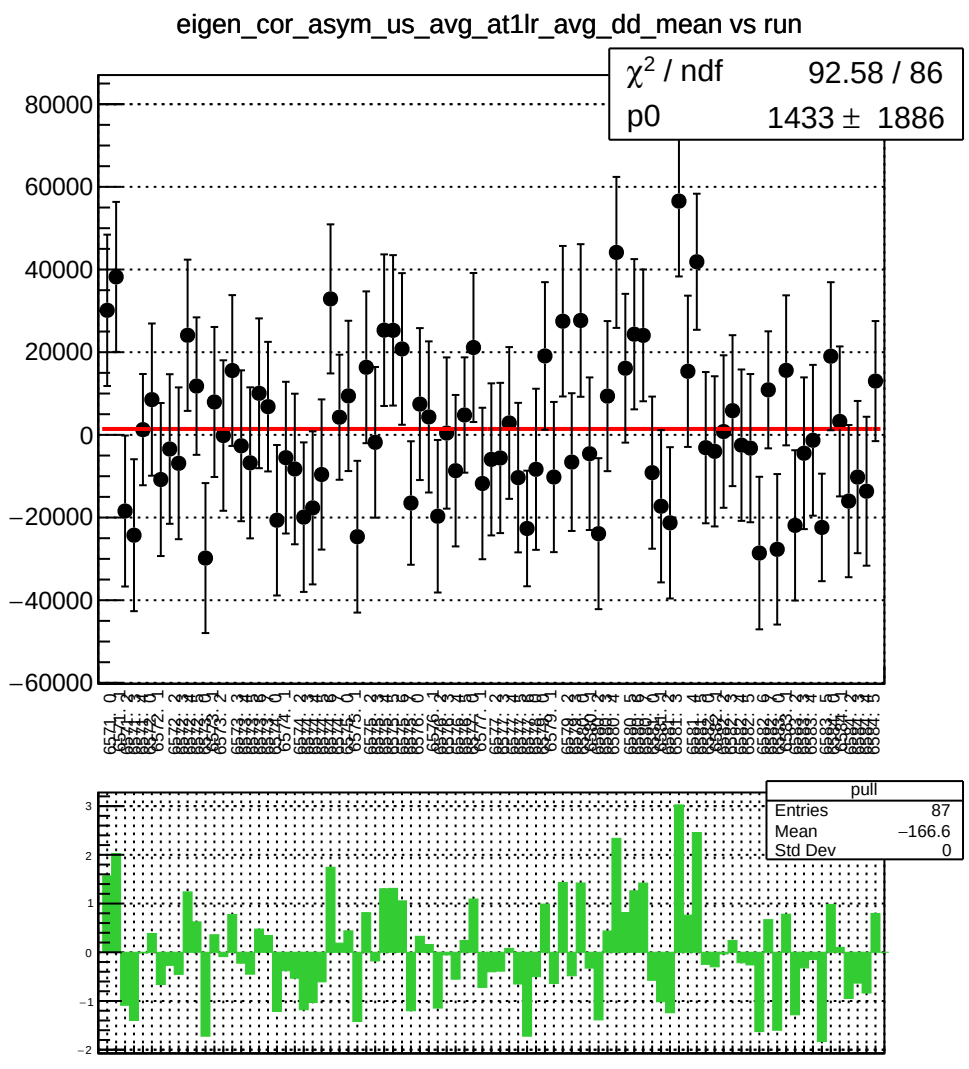

pull1D
Entries 87
Mean 0.003542
Std Dev 1.032

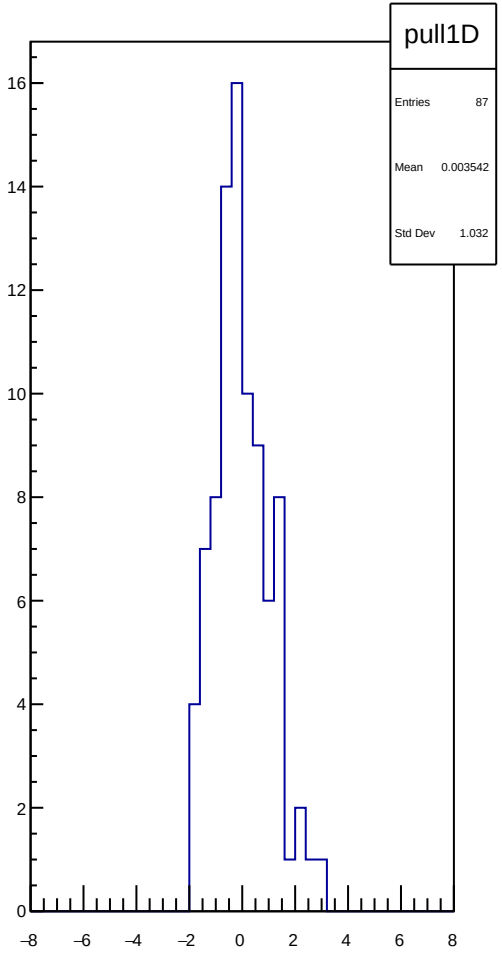

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 105.5 / 86
p0 1732 ± 1.334
1780
1760
1740
1720
1700
1680

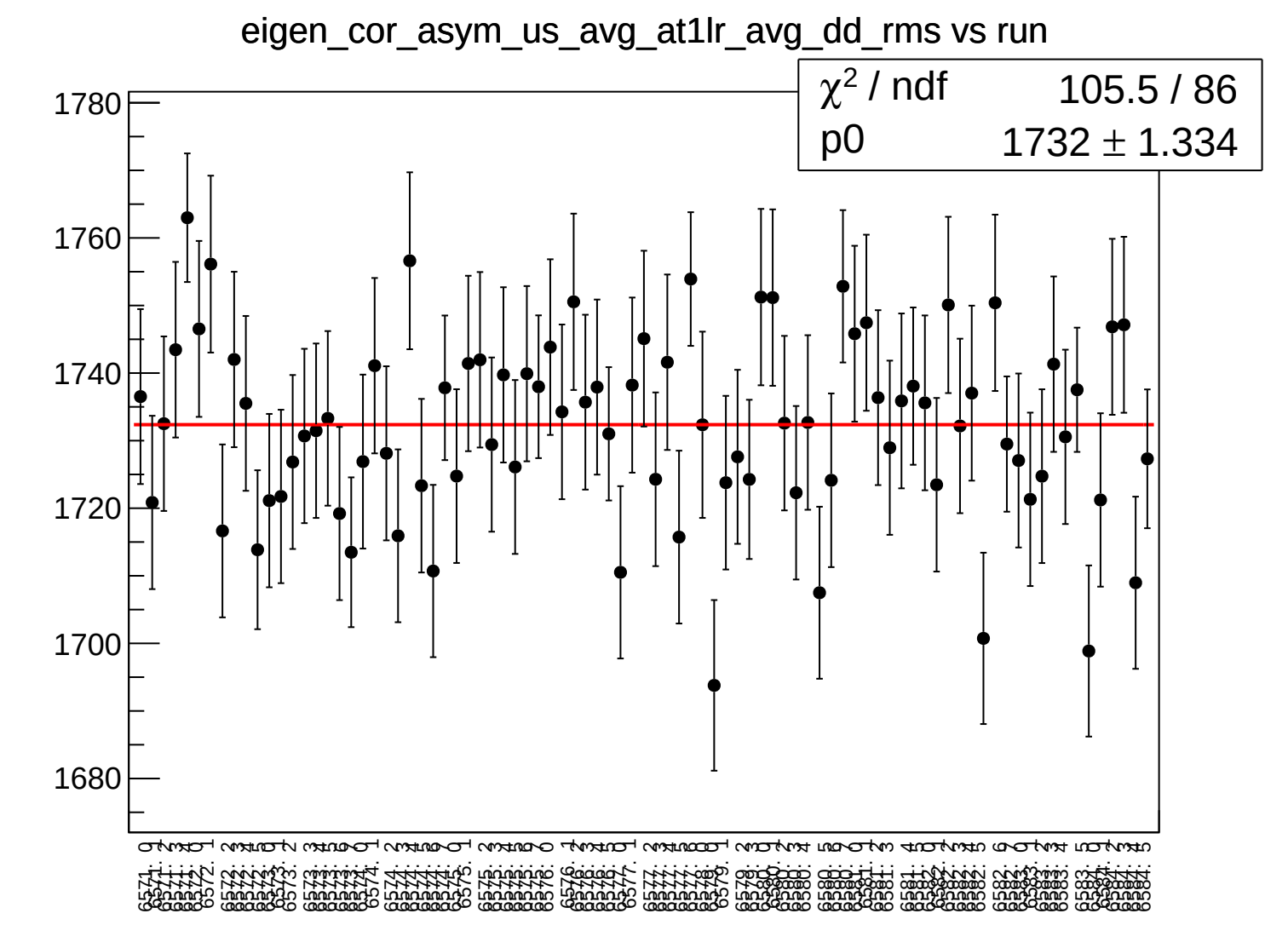

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 98.71 / 86
p0 354.7 ± 395.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean −1780
Std Dev 0
2
1
0
−1
−2
−3

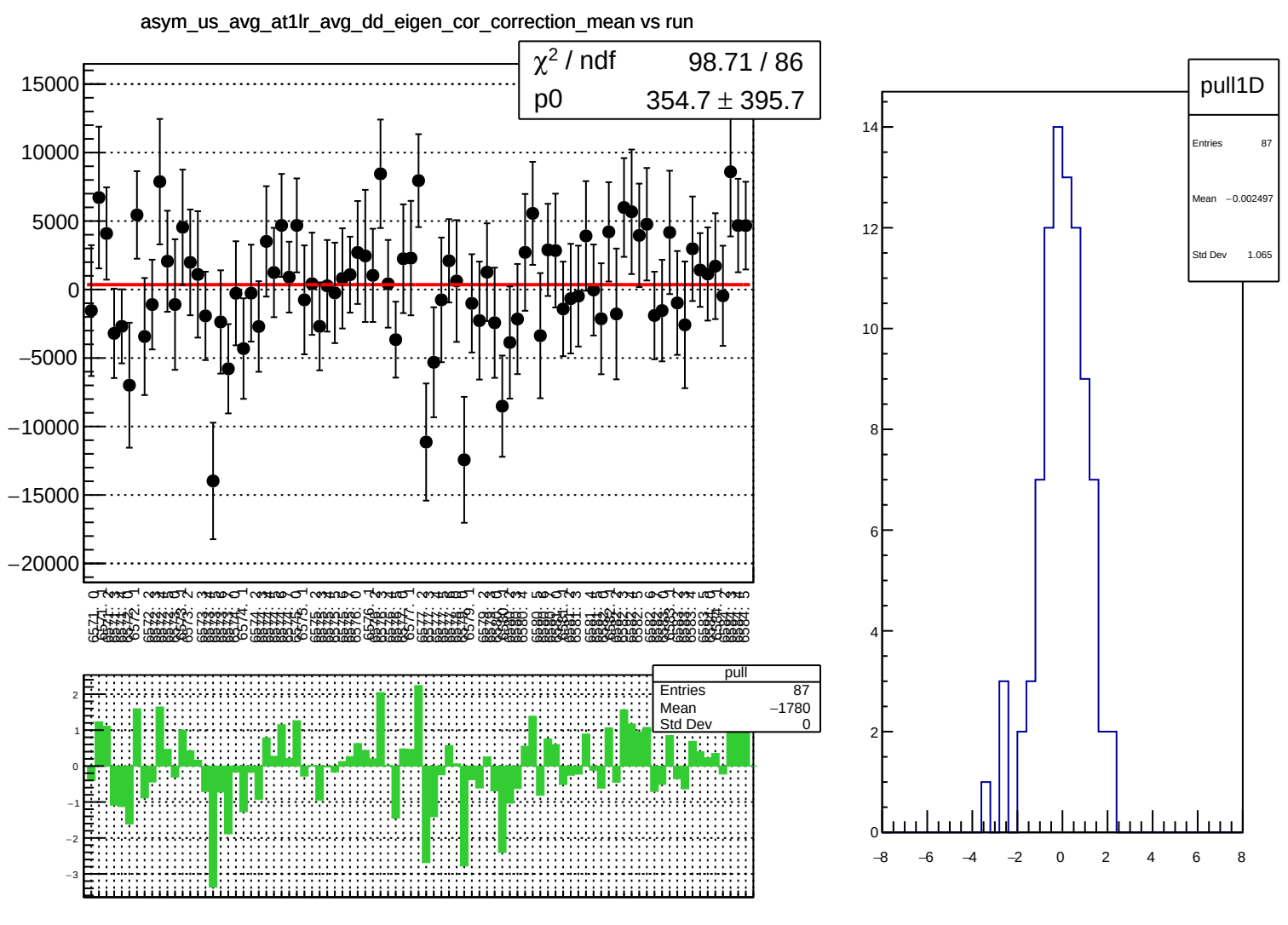

pull1D
Entries 87
Mean −0.002497
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

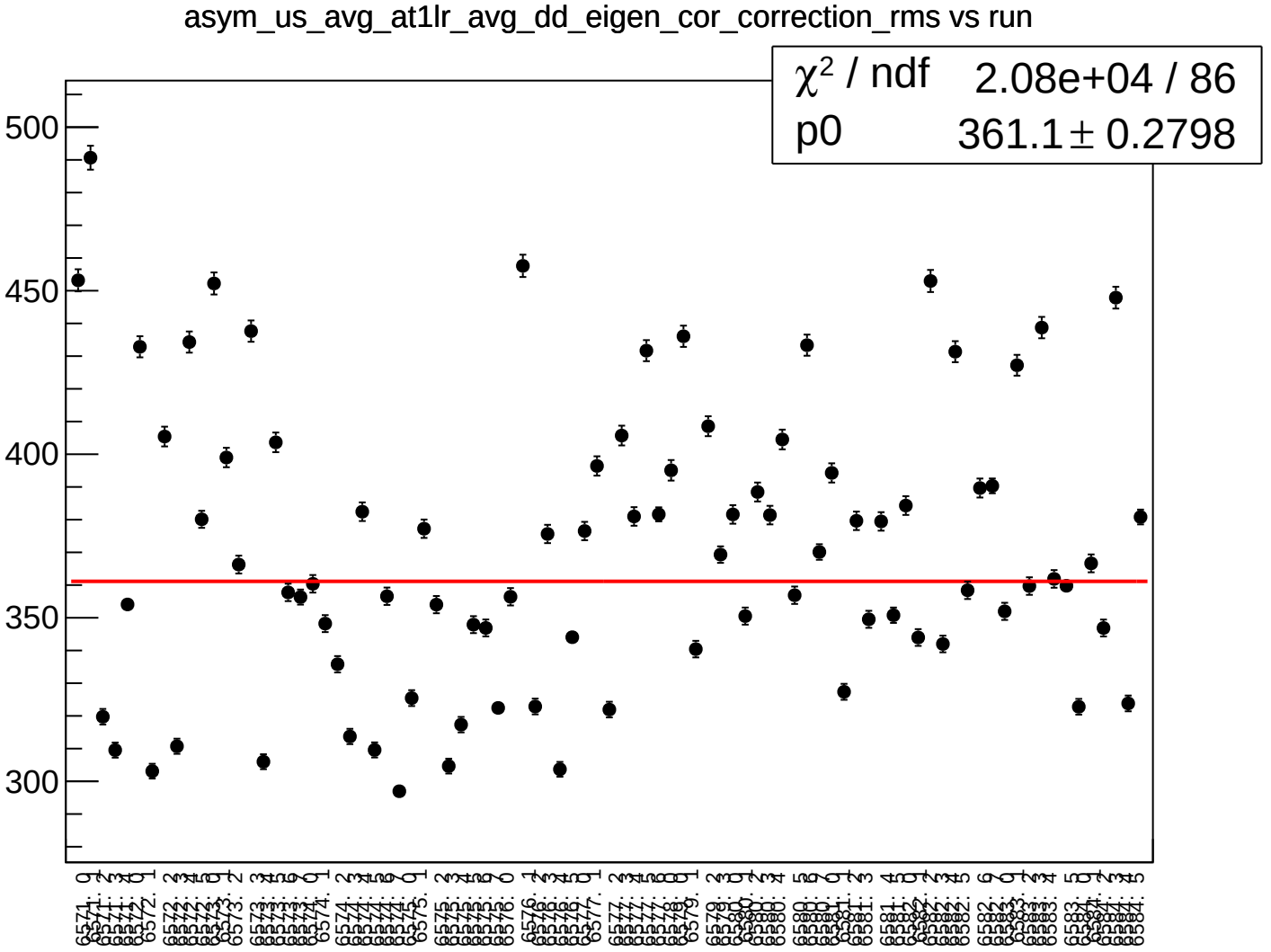

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.08e+04 / 86
p0 361.1 ± 0.2798
500
450
400
350
300

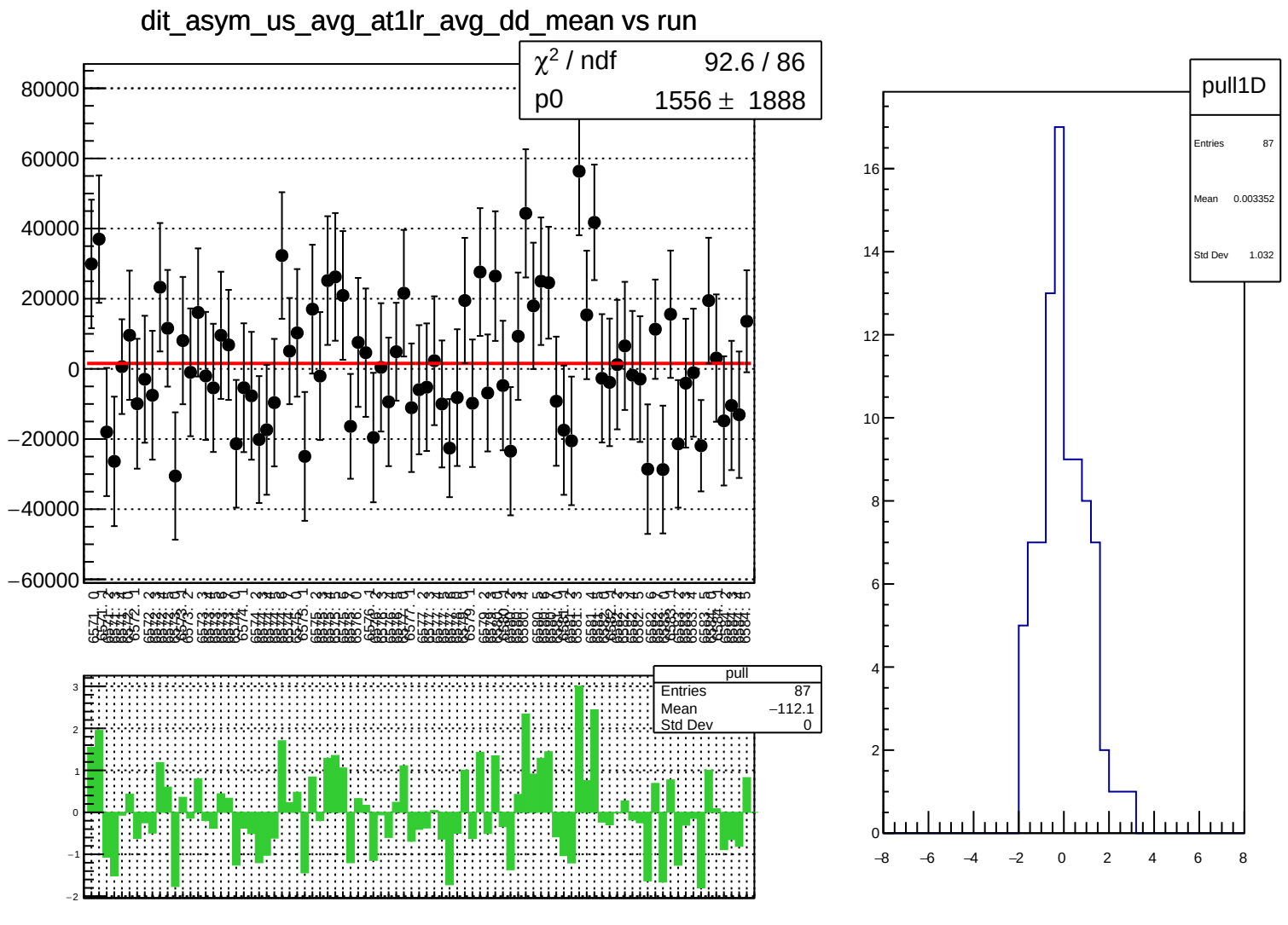

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 92.58 / 86
p0 1433 ± 1886
pull
Entries 87
Mean −166.6
Std Dev 0

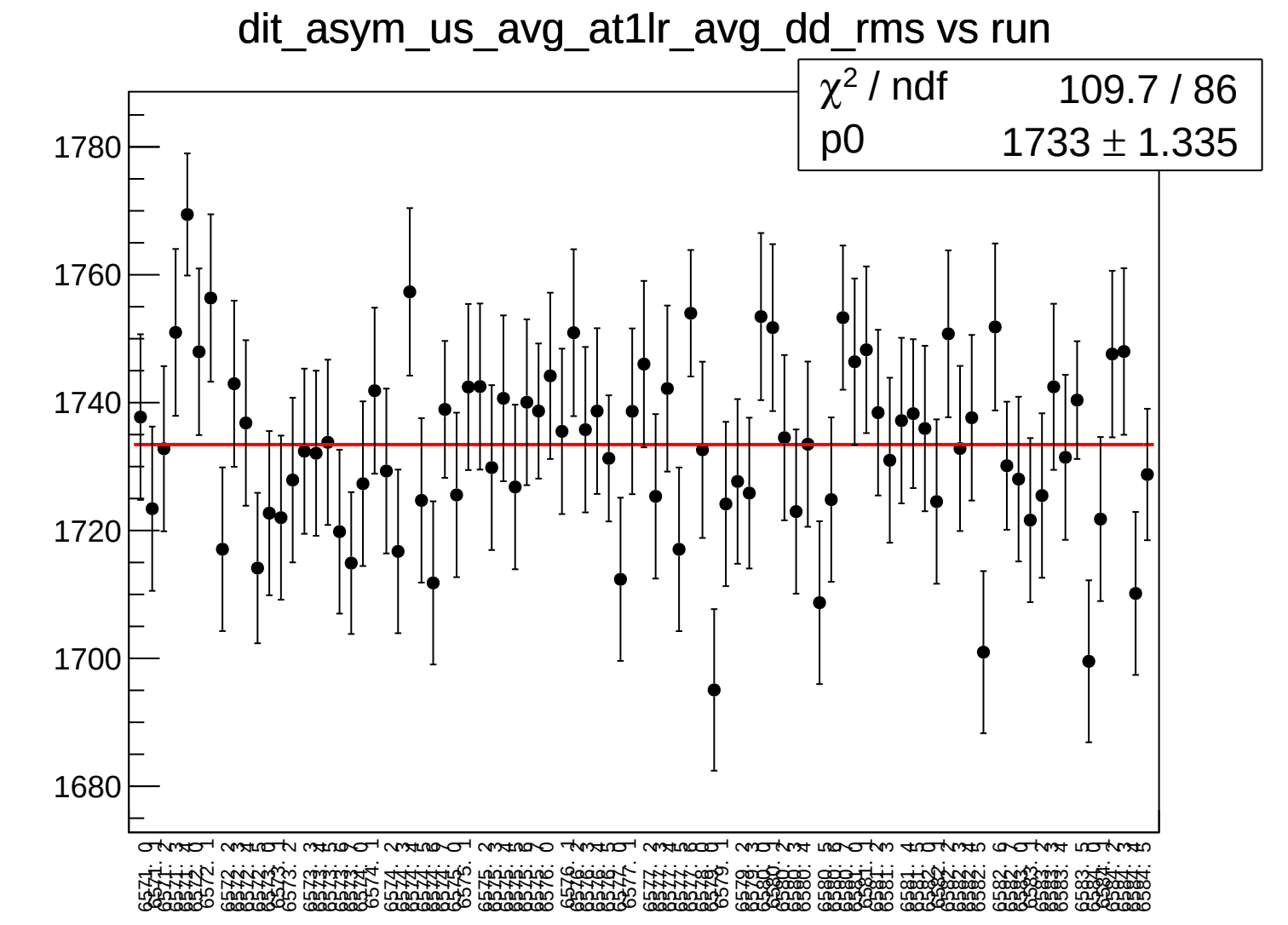

pull1D
Entries 87
Mean 0.003542
Std Dev 1.032

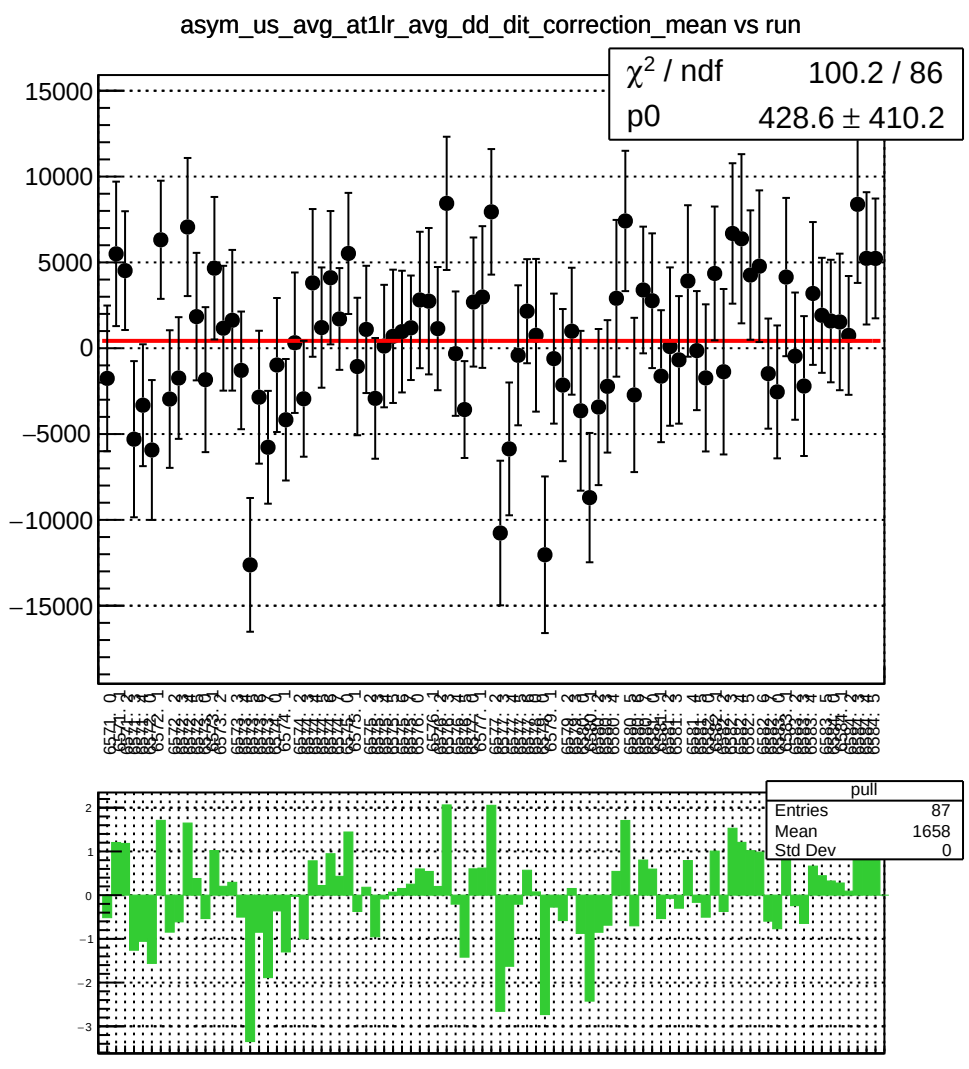

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 105.5 / 86
p0 1732 ± 1.334
1780
1760
1740
1720
1700
1680

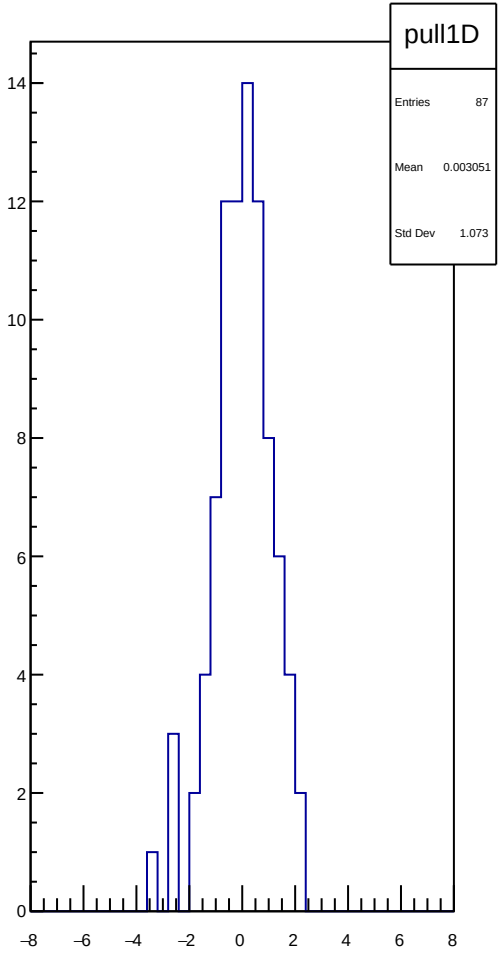

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.71 / 86
p0 354.7 ± 395.7
pull
Entries 87
Mean −1780
Std Dev 0
pull1D
Entries 87
Mean −0.002497
Std Dev 1.065

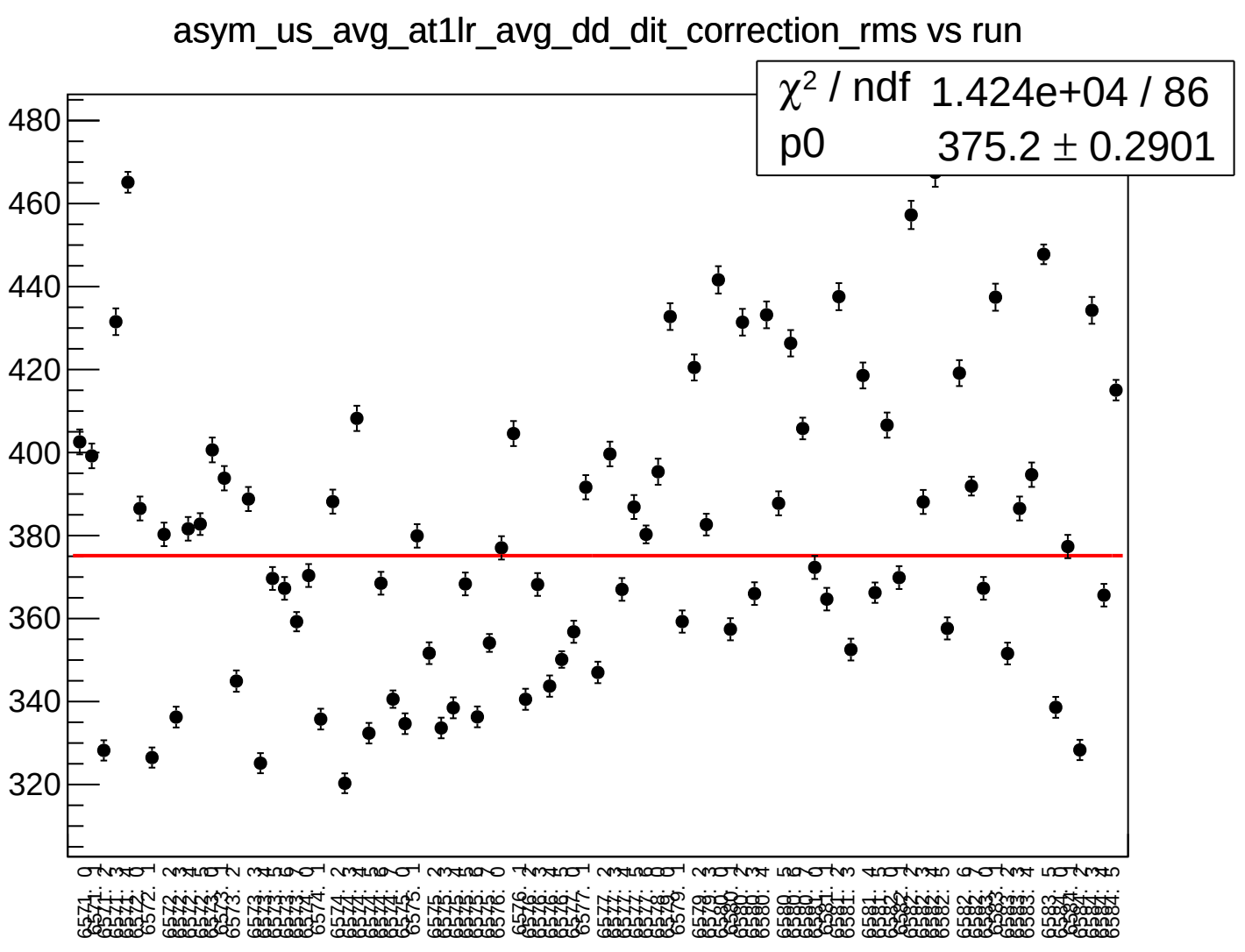

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.08e+04 / 86
p0 361.1 ± 0.2798
500
450
400
350
300

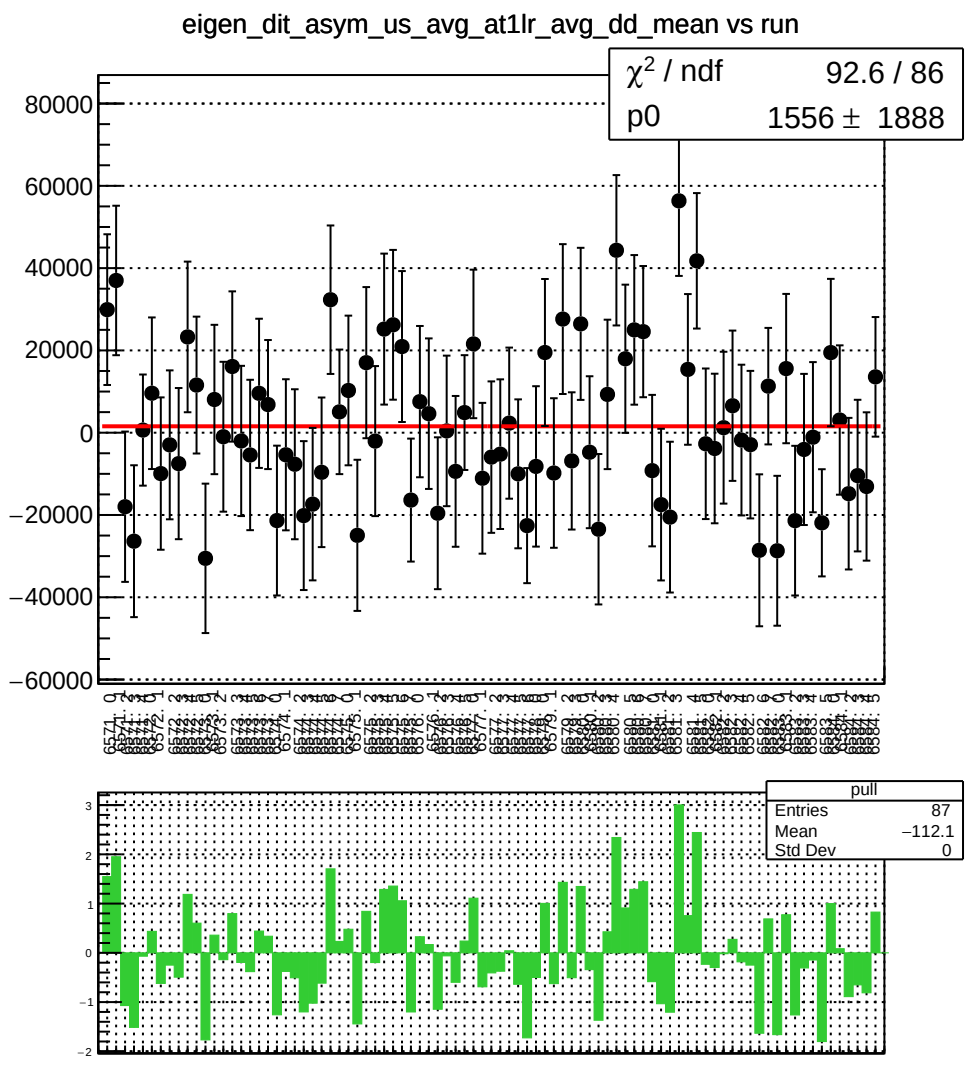

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 92.6 / 86
p0 1556 ± 1888
pull
Entries 87
Mean −112.1
Std Dev 0
pull1D
Entries 87
Mean 0.003352
Std Dev 1.032

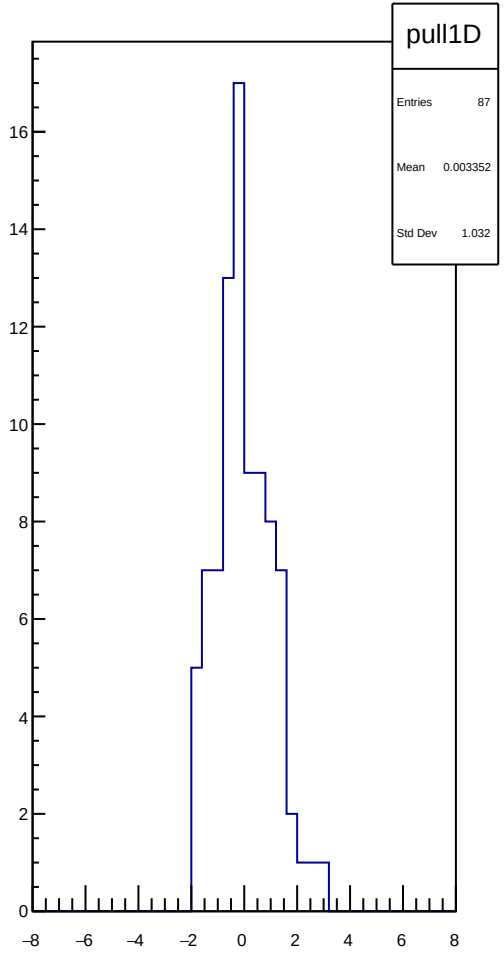

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 109.7 / 86
p0 1733 ± 1.335
1780
1760
1740
1720
1700
1680

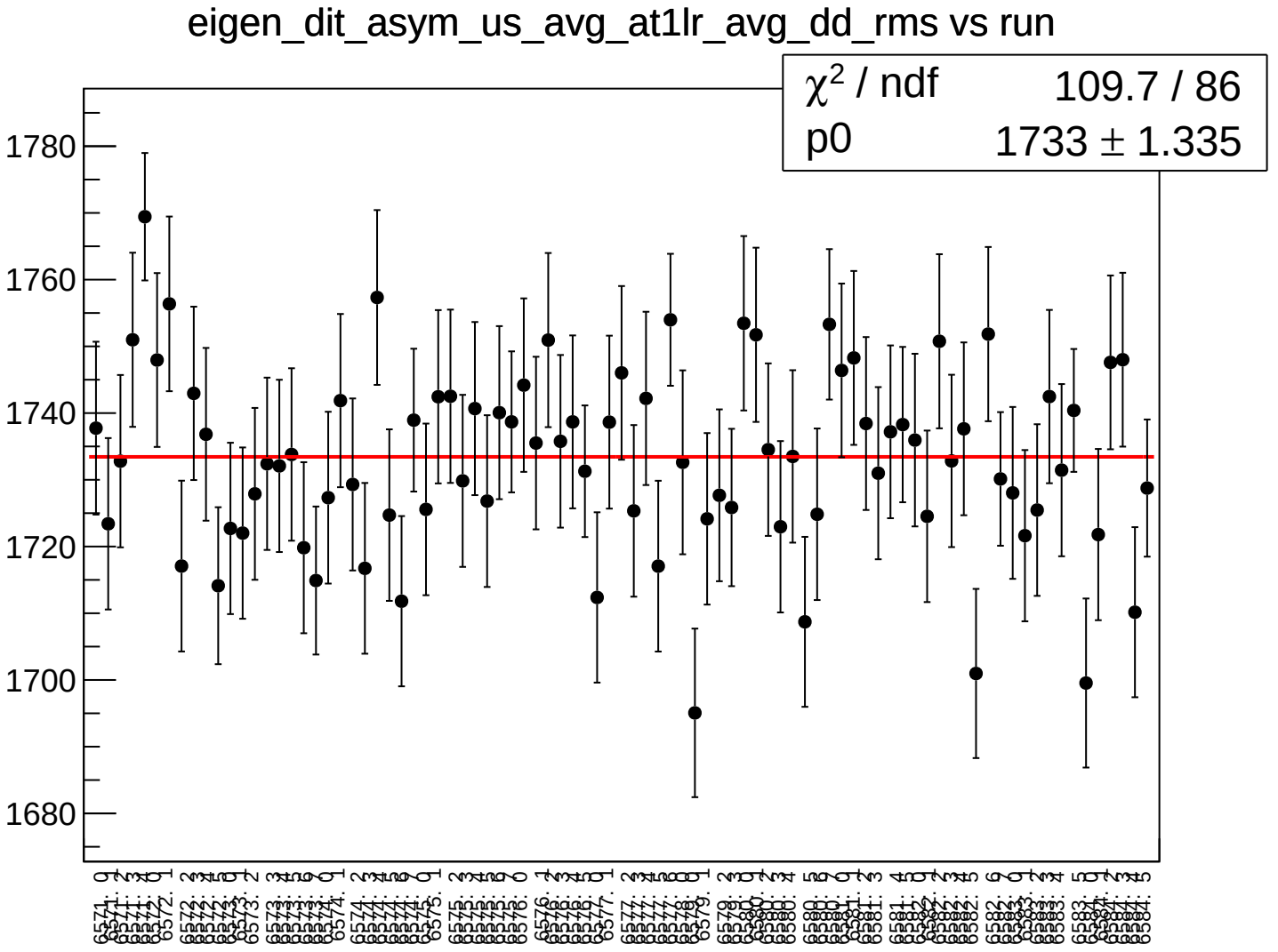

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 100.2 / 86
p0 428.6 ± 410.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 1658
Std Dev 0
2
1
0
−1
−2
−3

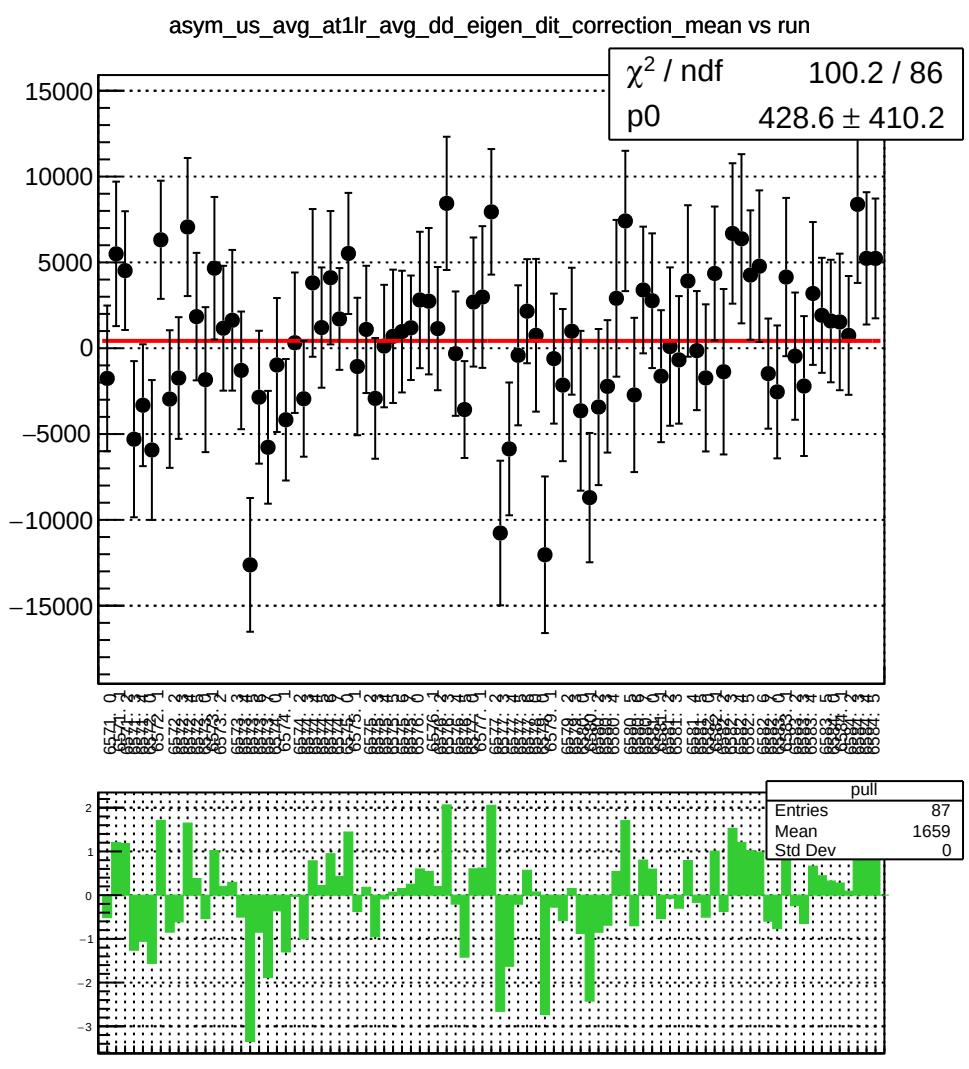

pull1D
Entries 87
Mean 0.003051
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

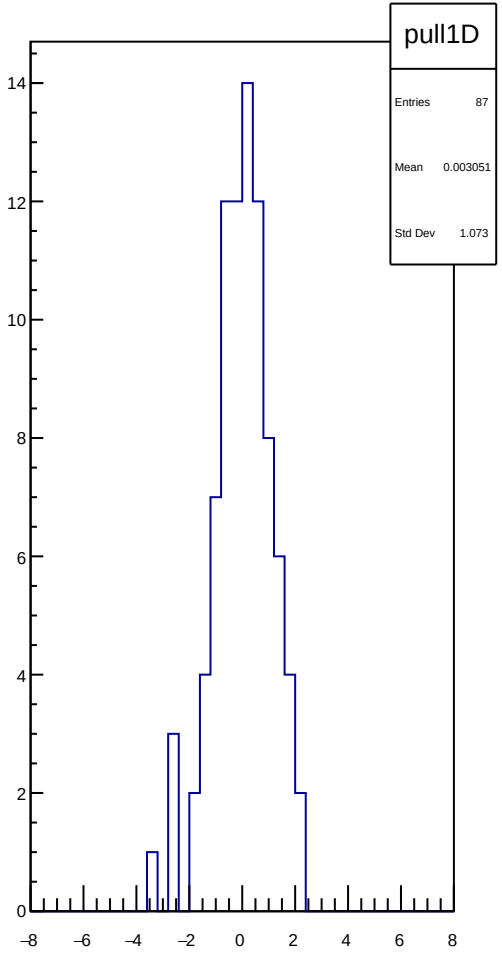

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.424e+04 / 86
p0 375.2 ± 0.2901
480
460
440
420
400
380
360
340
320

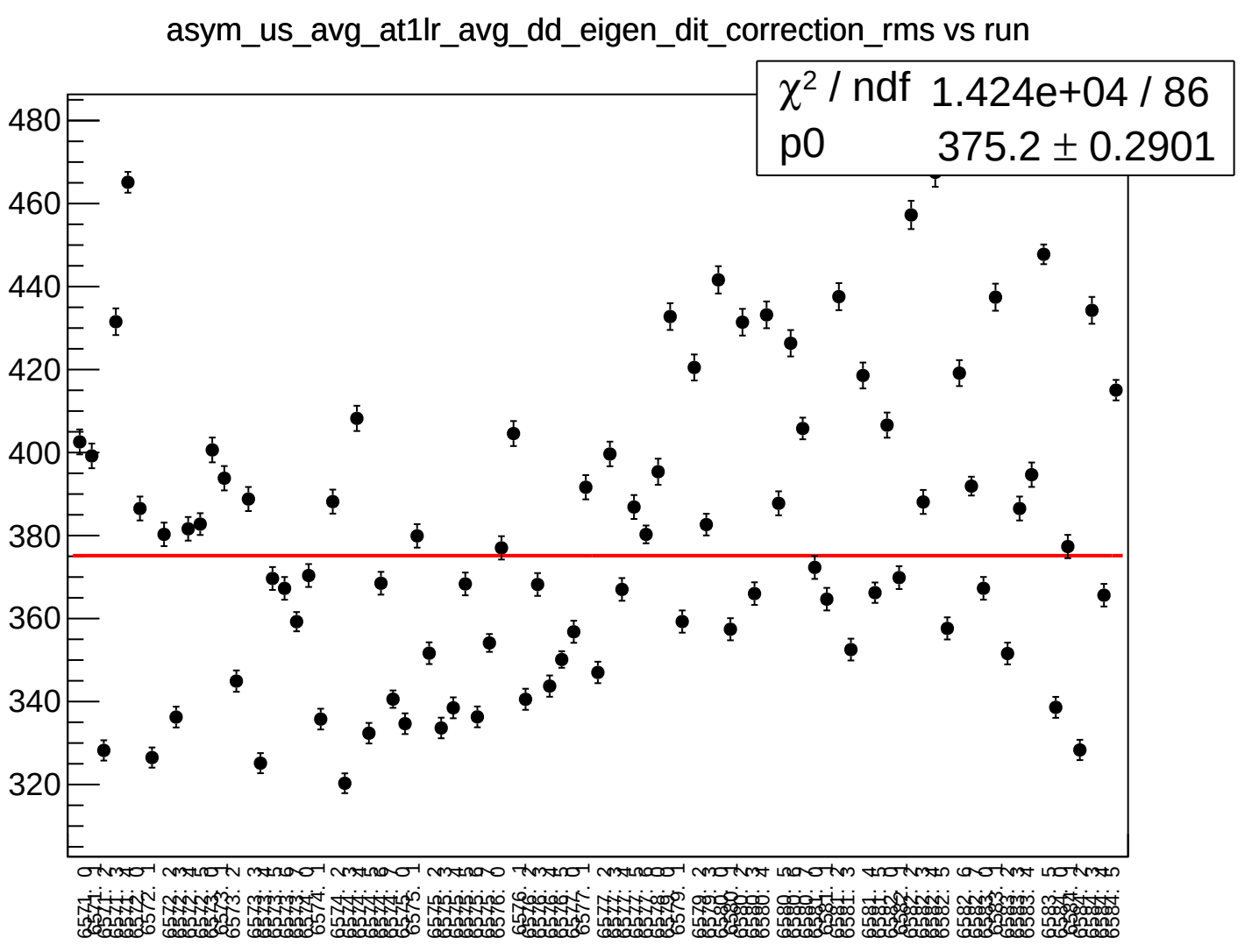

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 92.6 / 86
p0 1556 ± 1888
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −112.1
Std Dev 0
3
2
1
0
−1
−2

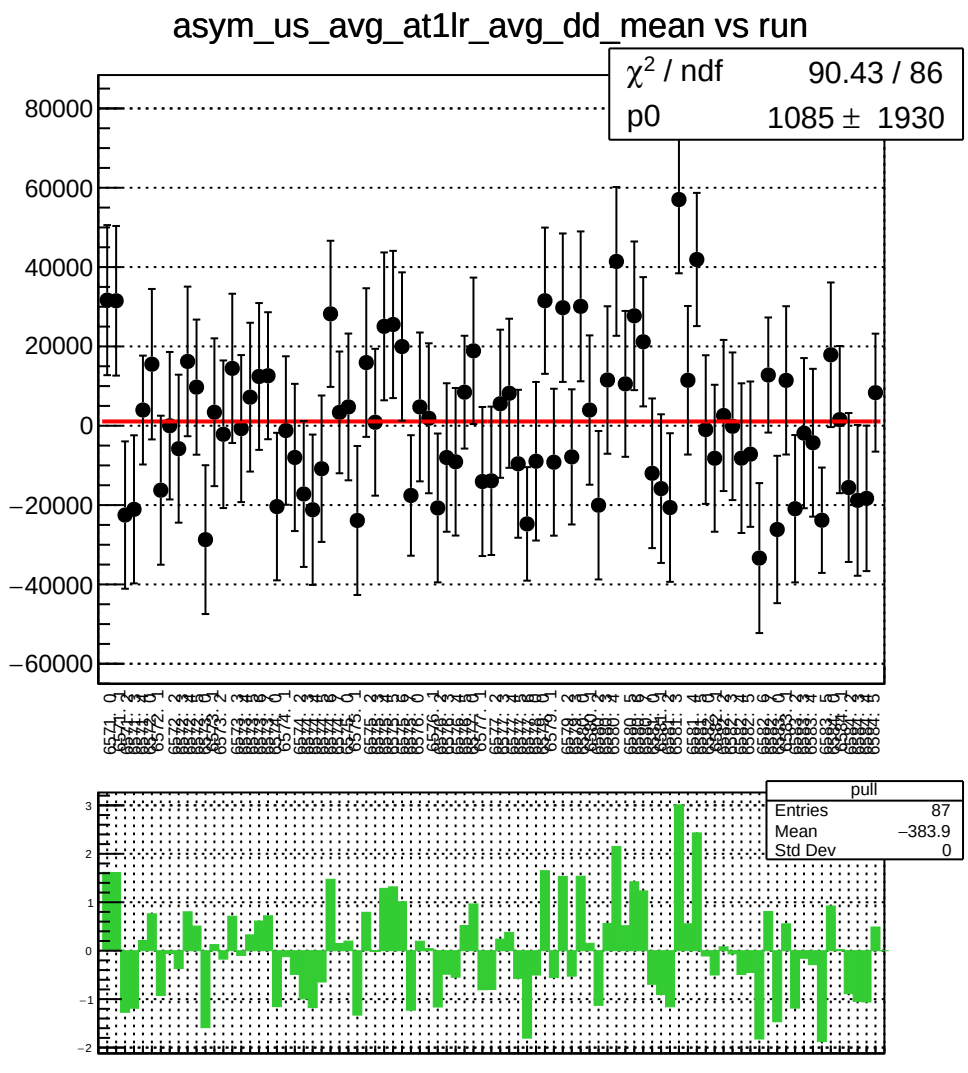

pull1D
Entries 87
Mean 0.003352
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

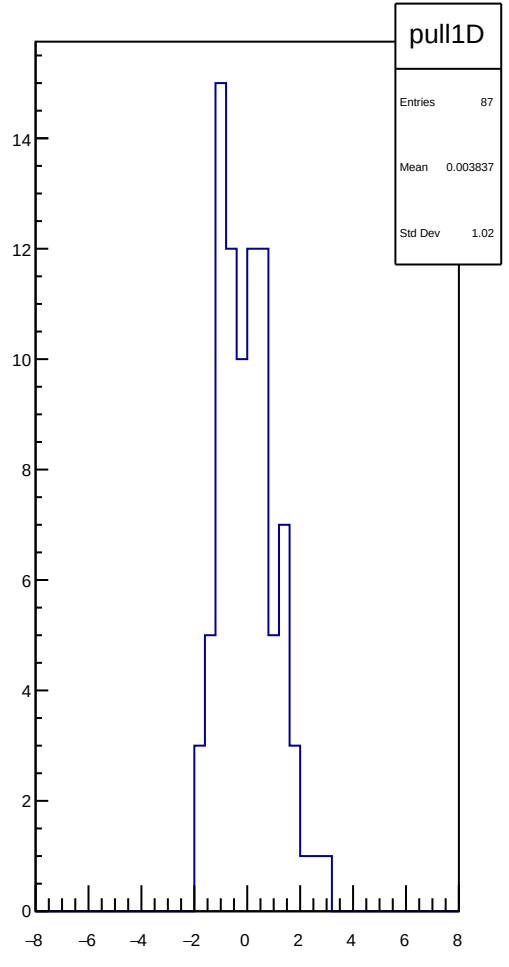

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 109.7 / 86
p0 1733 ± 1.335
1780
1760
1740
1720
1700
1680

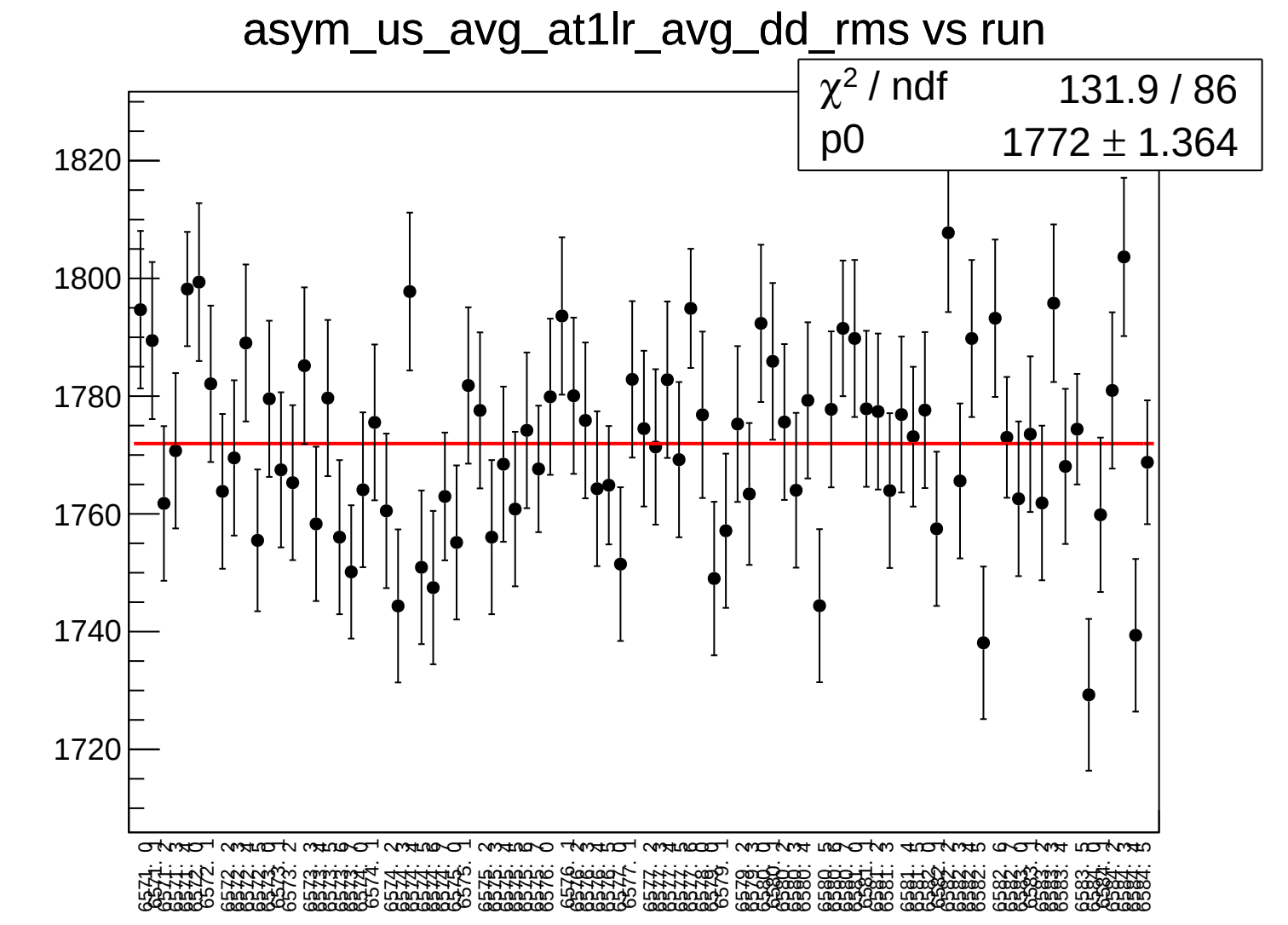

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.2 / 86
p0 428.6 ± 410.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 1659
Std Dev 0
2
1
0
−1
−2
−3

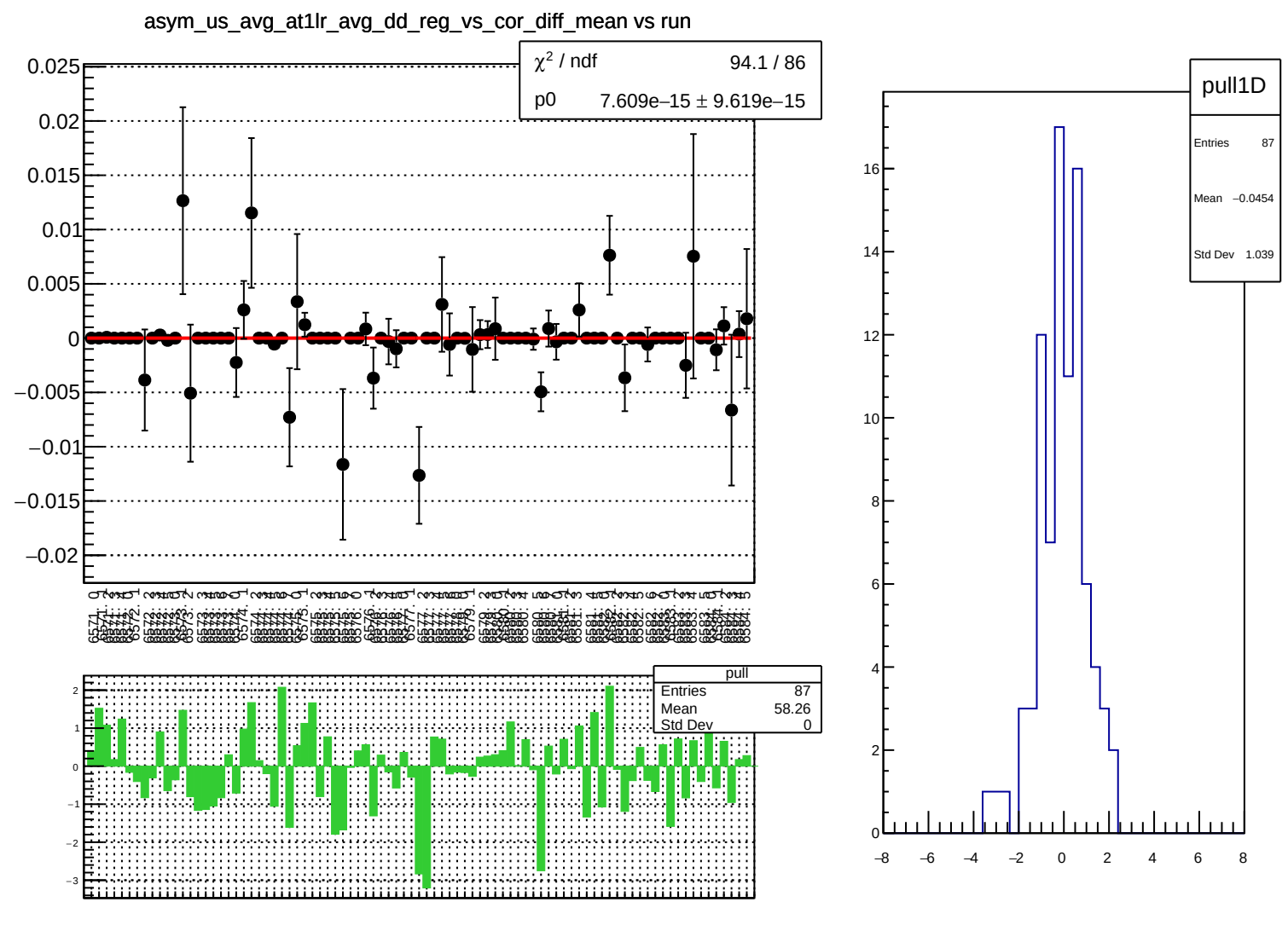

pull1D
Entries 87
Mean 0.003051
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

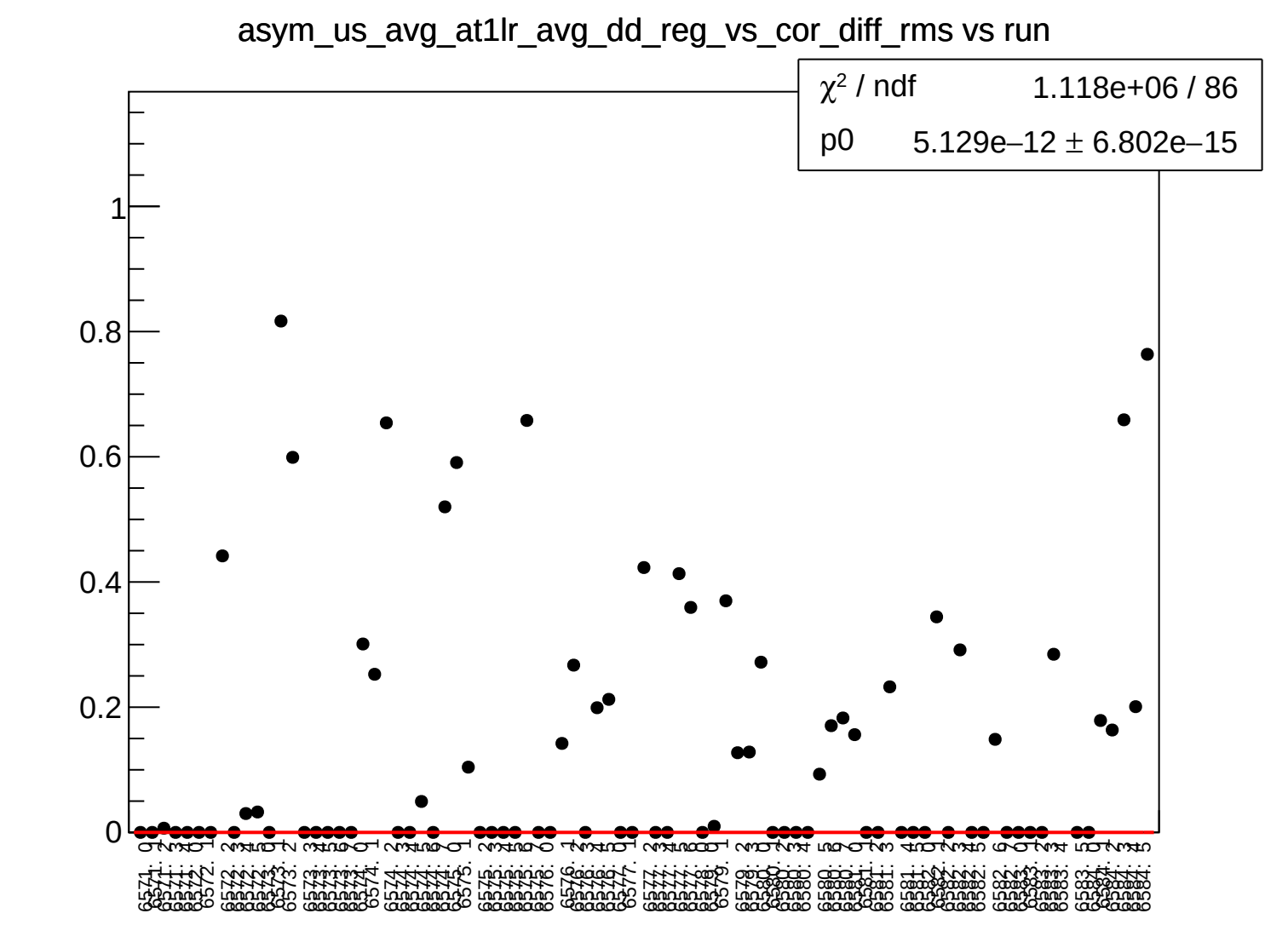

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.424e+04 / 86
p0 375.2 ± 0.2901
480
460
440
420
400
380
360
340
320

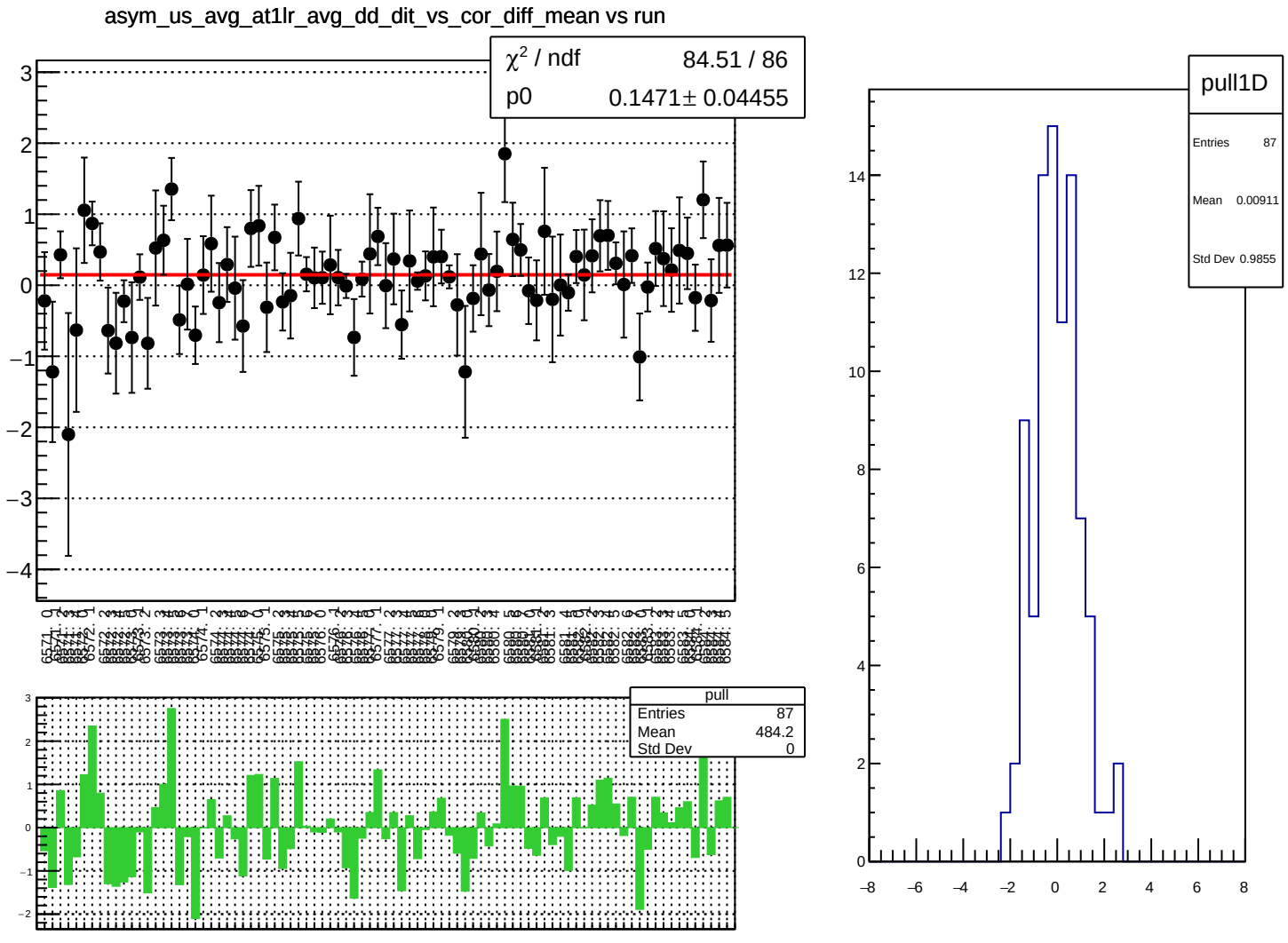

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 90.43 / 86
p0 1085 ± 1930
pull
Entries 87
Mean −383.9
Std Dev 0

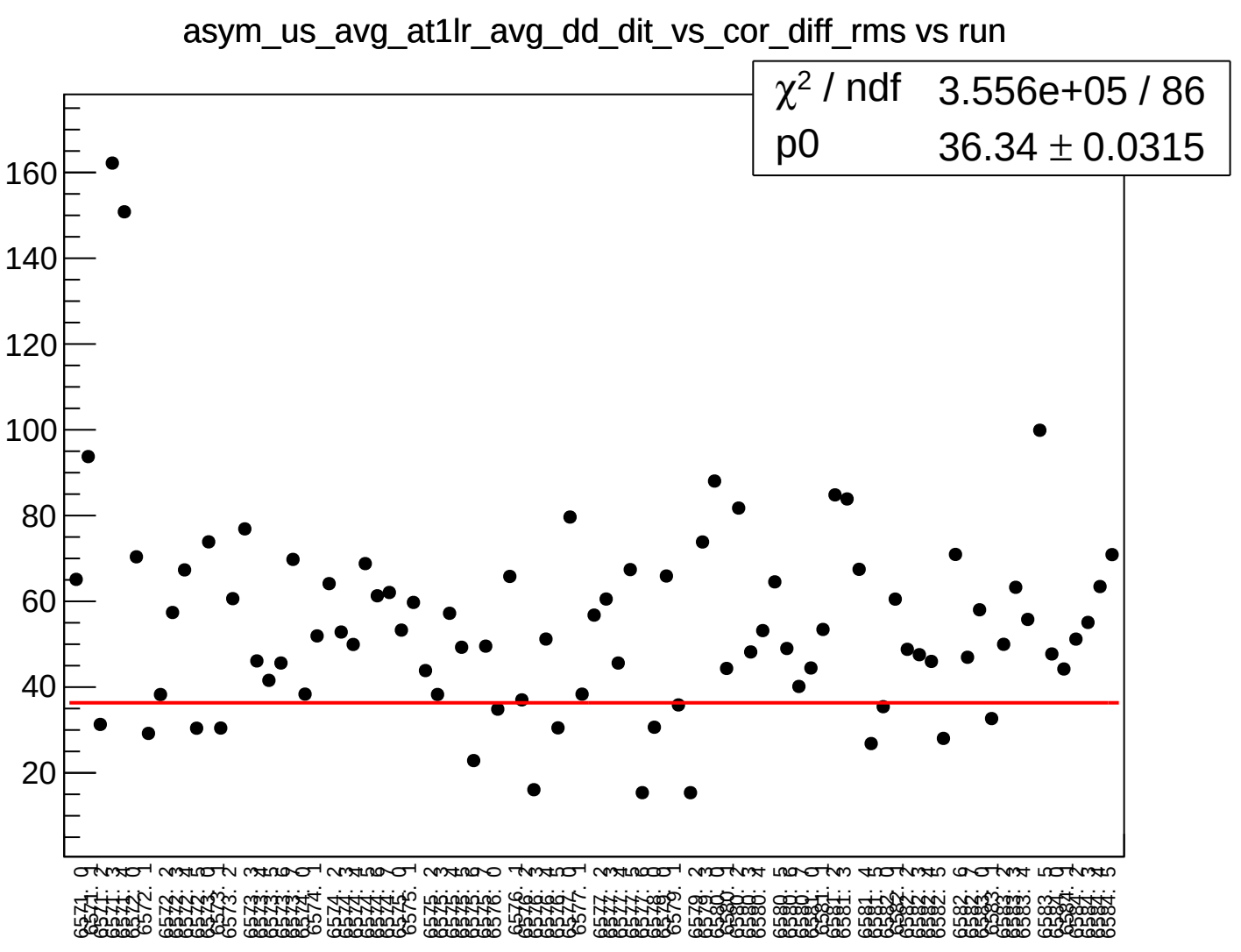

pull1D
Entries 87
Mean 0.003837
Std Dev 1.02

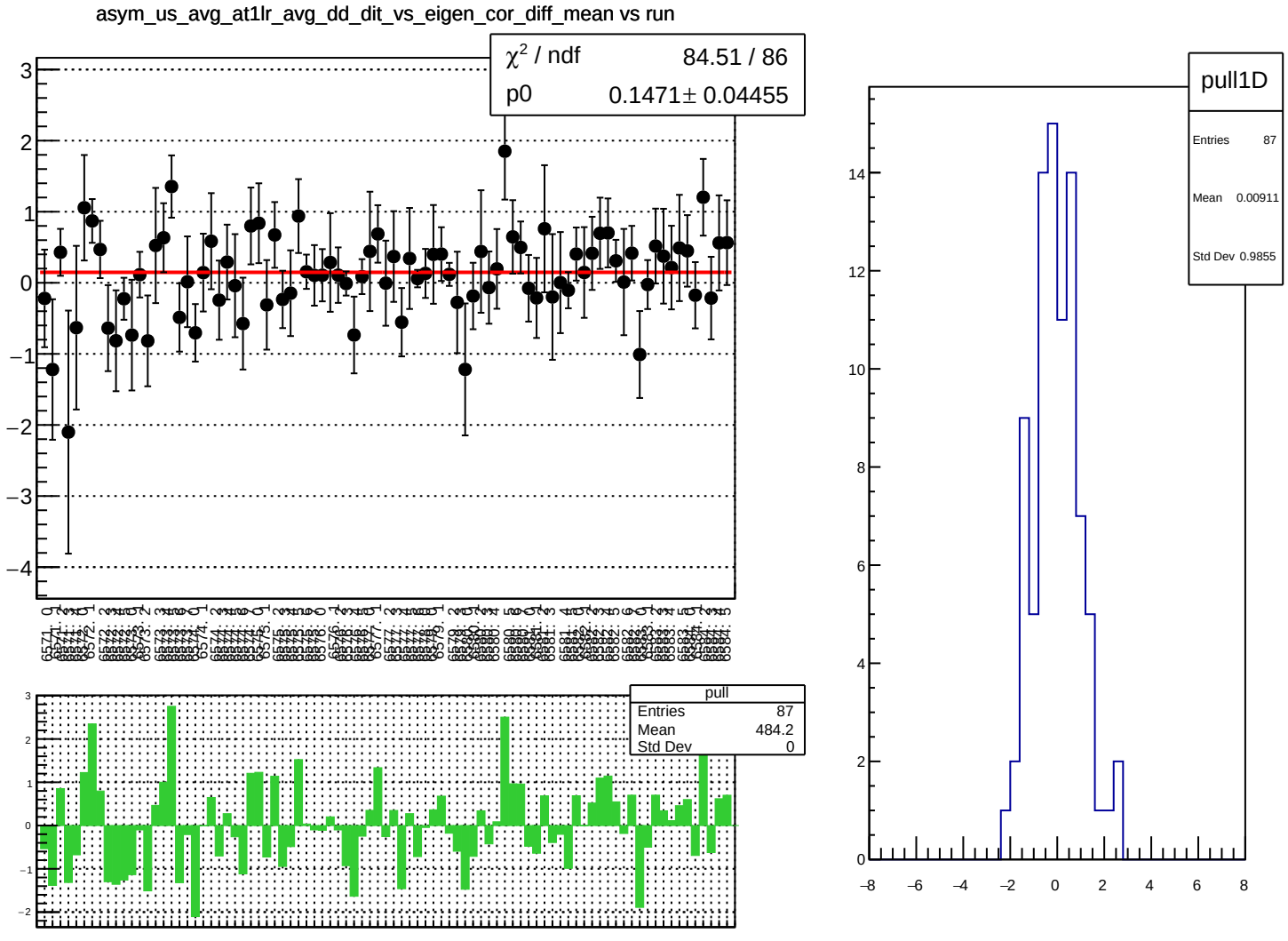

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 131.9 / 86
p0 1772 ± 1.364
1820
1800
1780
1760
1740
1720

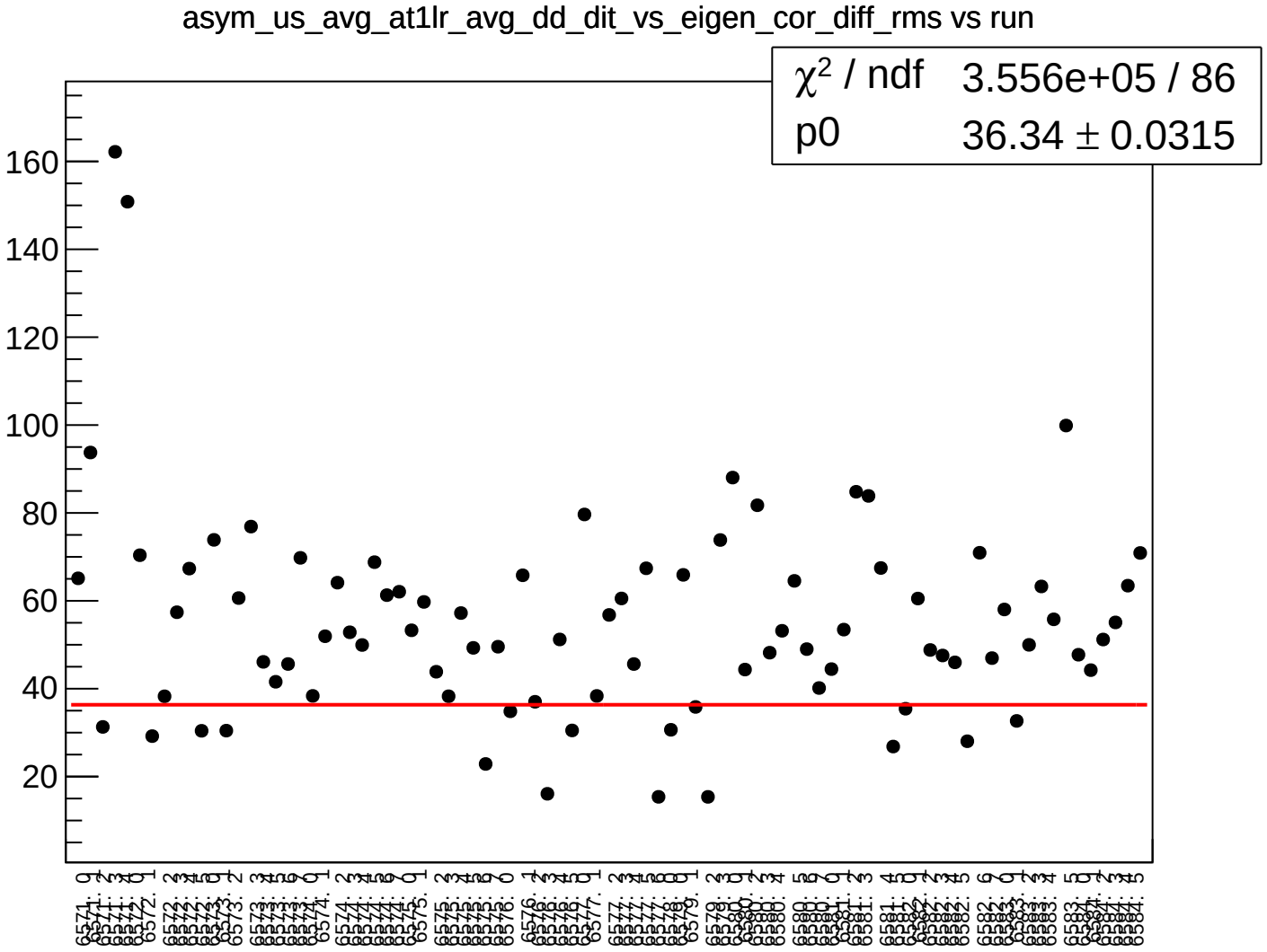

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.1 / 86
p0 7.609e−15 ± 9.619e−15
pull
Entries 87
Mean 58.26
Std Dev 0
pull1D
Entries 87
Mean −0.0454
Std Dev 1.039

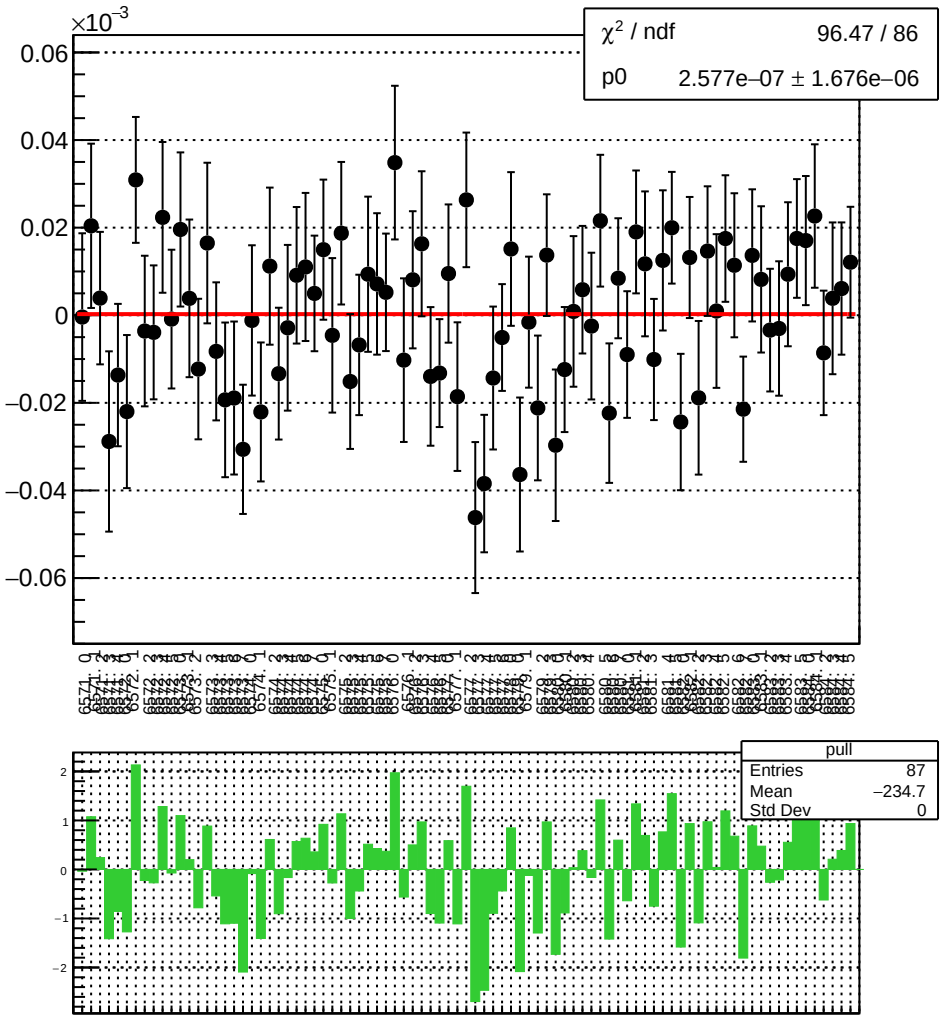

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.118e+06 / 86
p0 5.129e−12 ± 6.802e−15
1
0.8
0.6
0.4
0.2
0

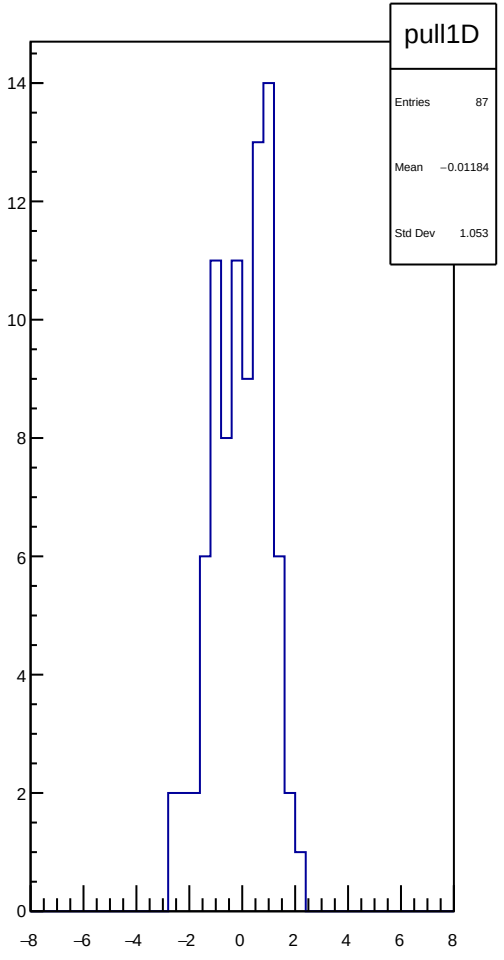

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.51 / 86
p0 0.1471± 0.04455
pull
Entries 87
Mean 484.2
Std Dev 0
pull1D
Entries 87
Mean 0.00911
Std Dev 0.9855

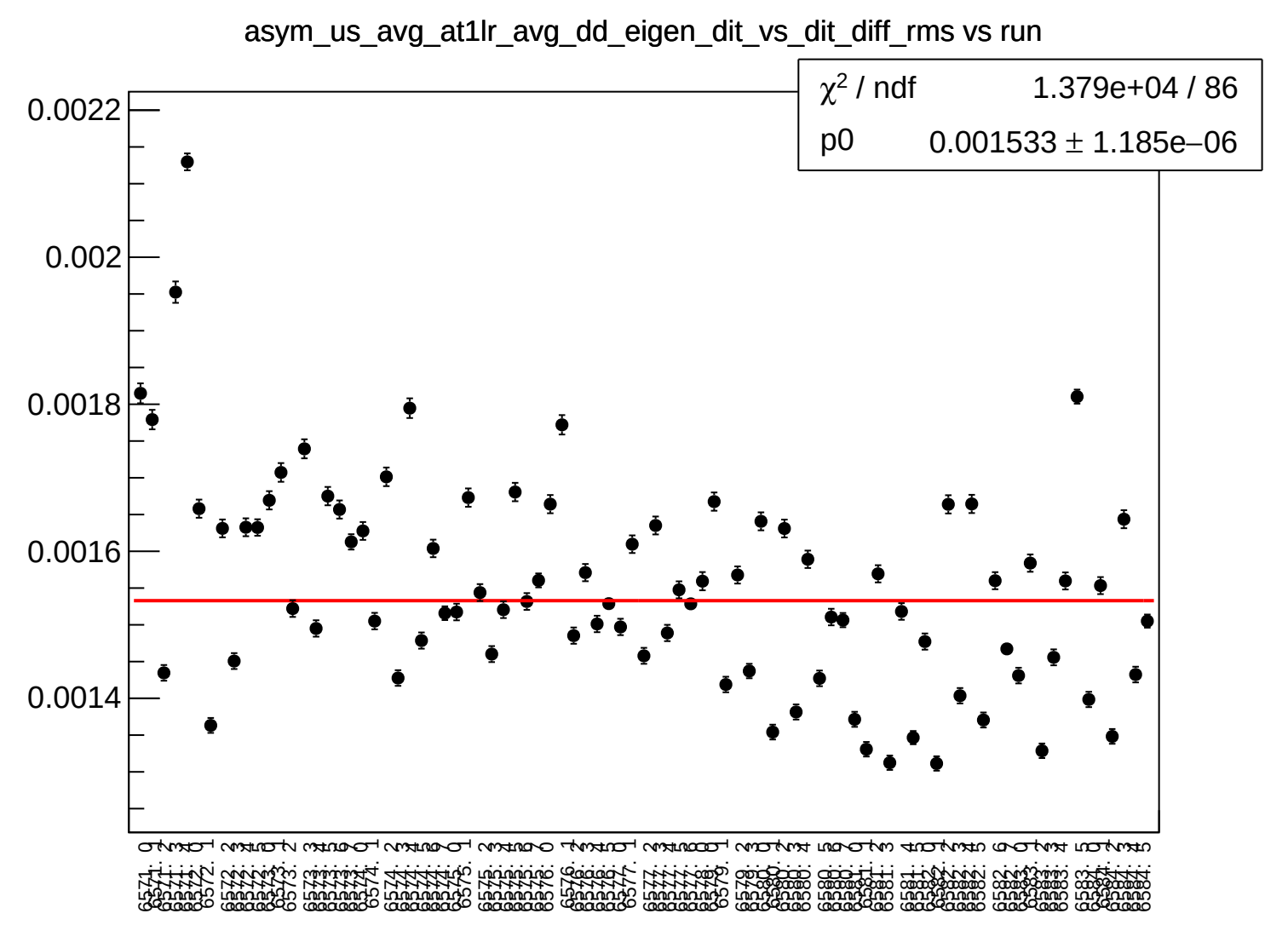

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.556e+05 / 86
p0 36.34 ± 0.0315
160
140
120
100
80
60
40
20

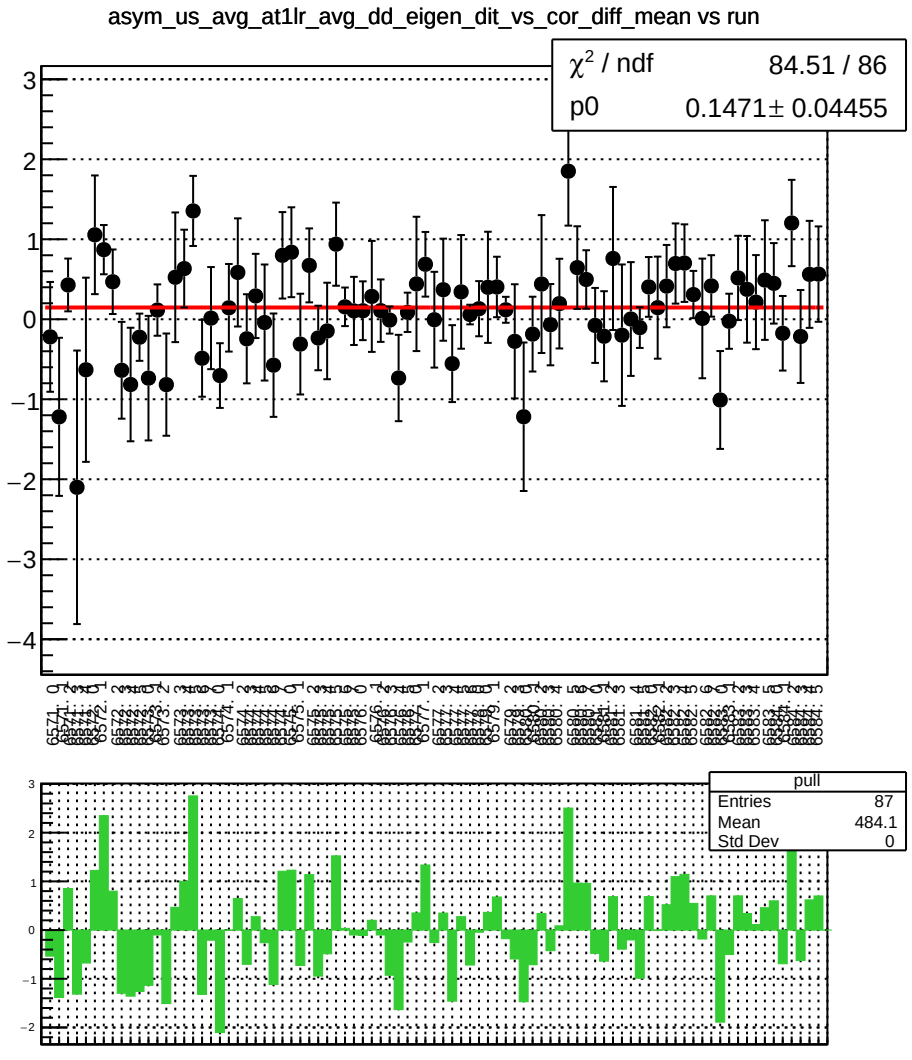

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.51 / 86
p0 0.1471± 0.04455
pull
Entries 87
Mean 484.2
Std Dev 0
pull1D
Entries 87
Mean 0.00911
Std Dev 0.9855

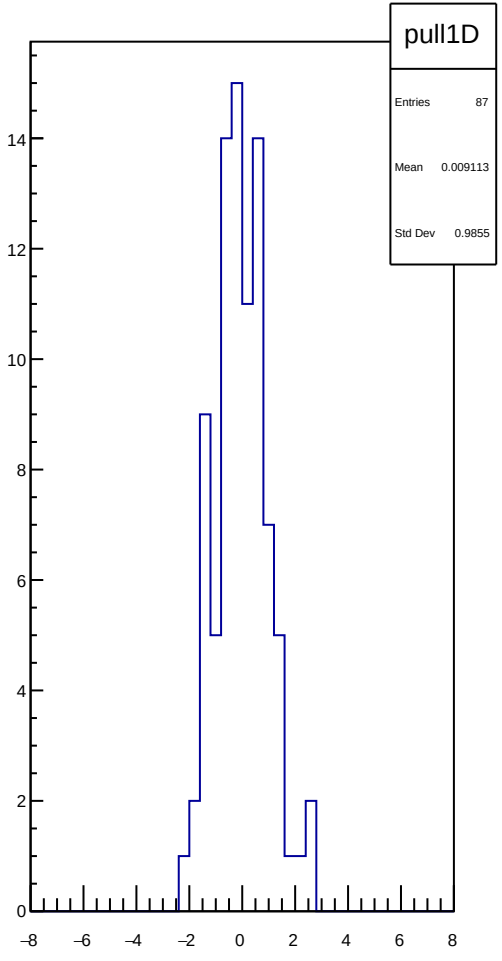

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.556e+05 / 86
p0 36.34 ± 0.0315
160
140
120
100
80
60
40
20

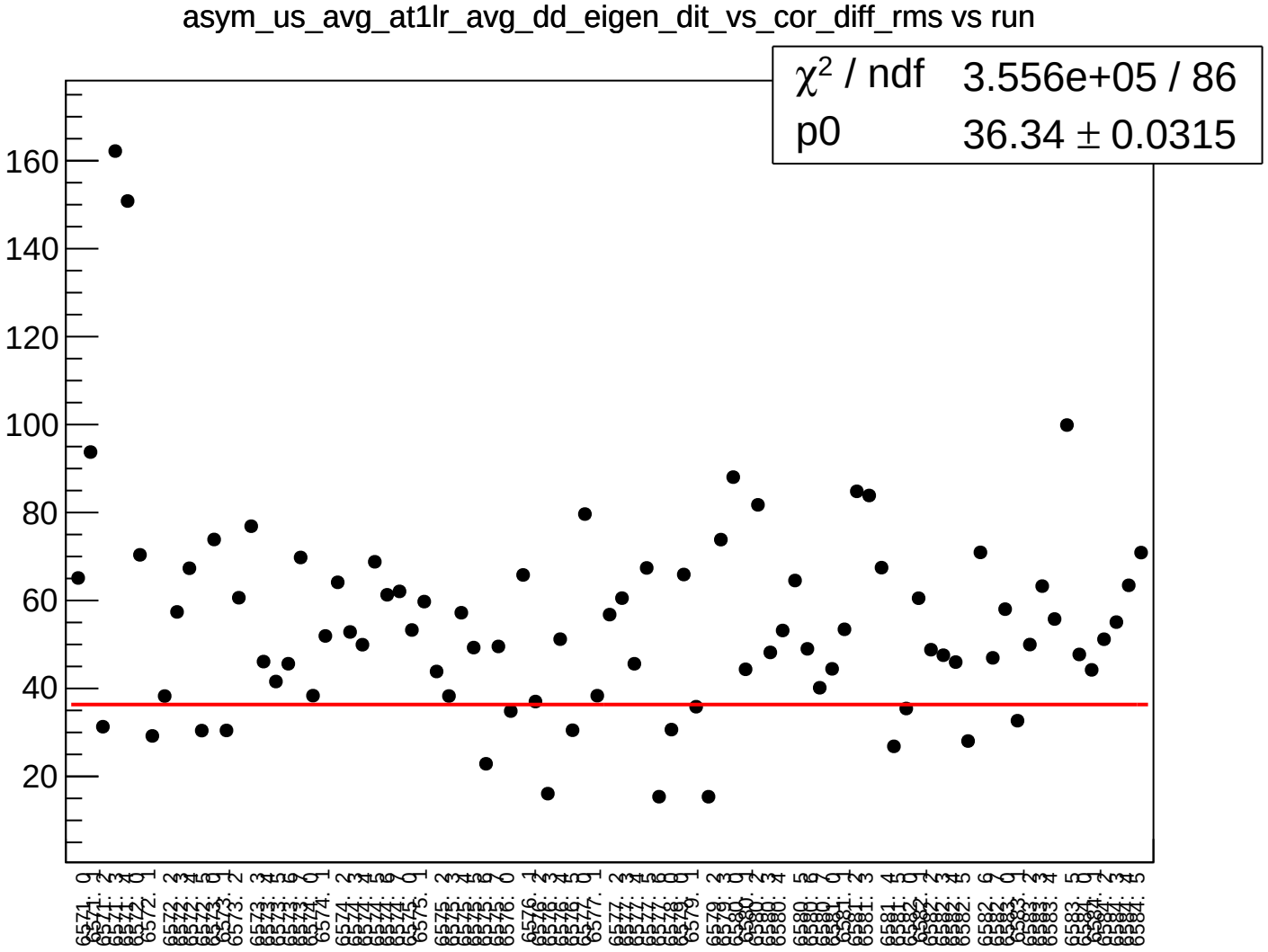

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.47 / 86
p0 2.577e−07 ± 1.676e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean −234.7
Std Dev 0
2
1
0
−1
−2

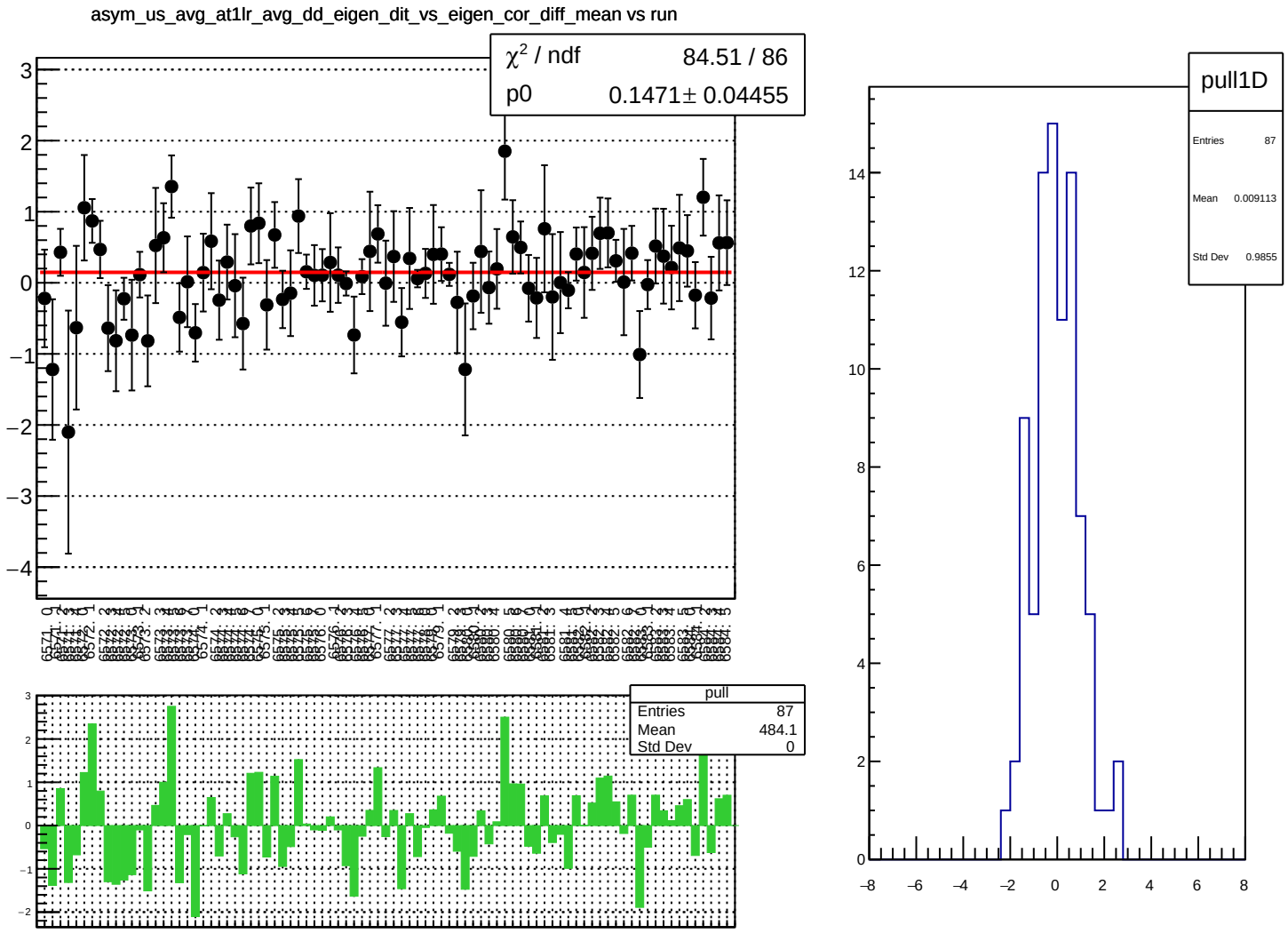

pull1D
Entries 87
Mean −0.01184
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

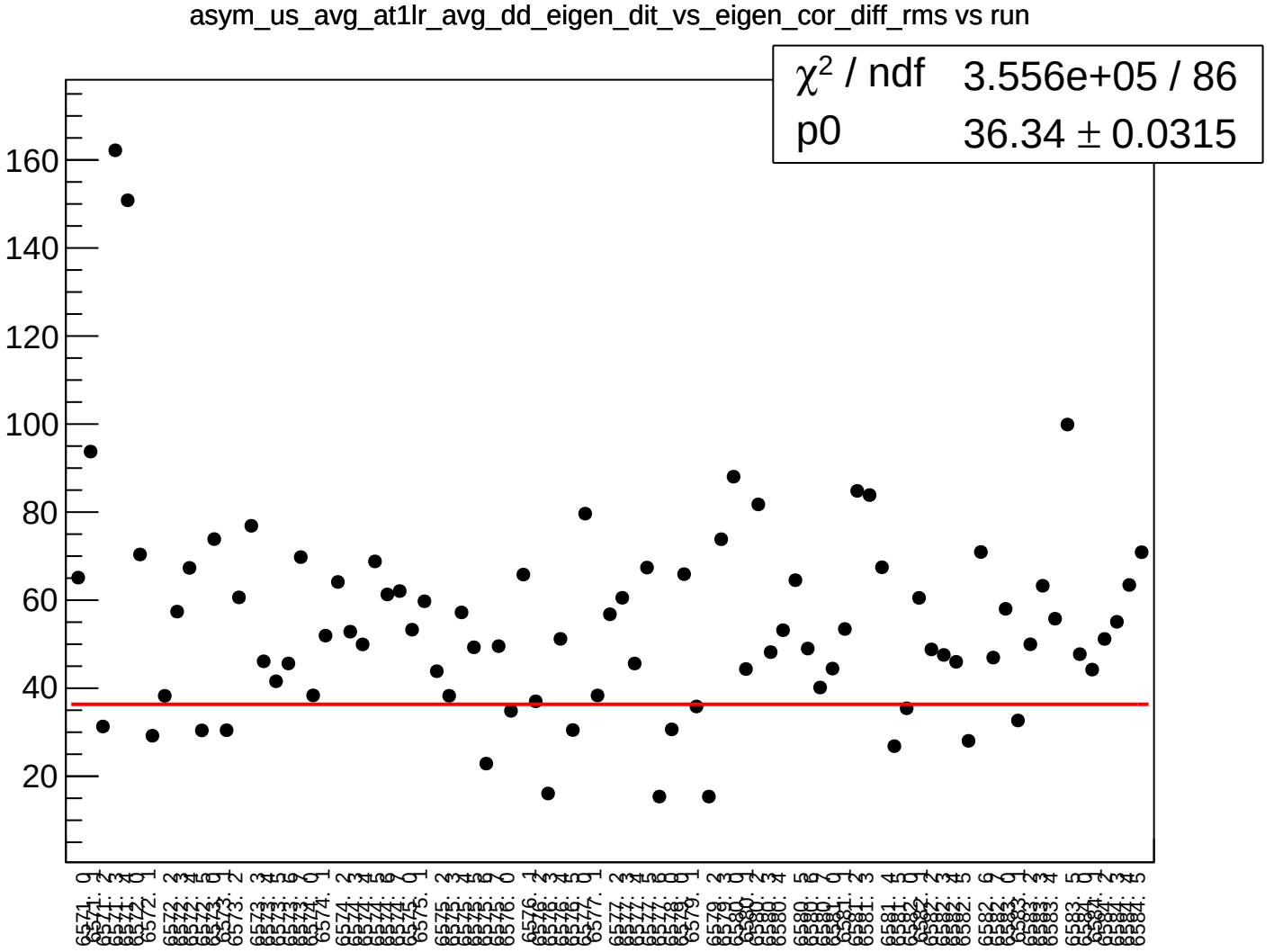

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.379e+04 / 86
p0 0.001533 ± 1.185e−06
0.0022
0.002
0.0018
0.0016
0.0014

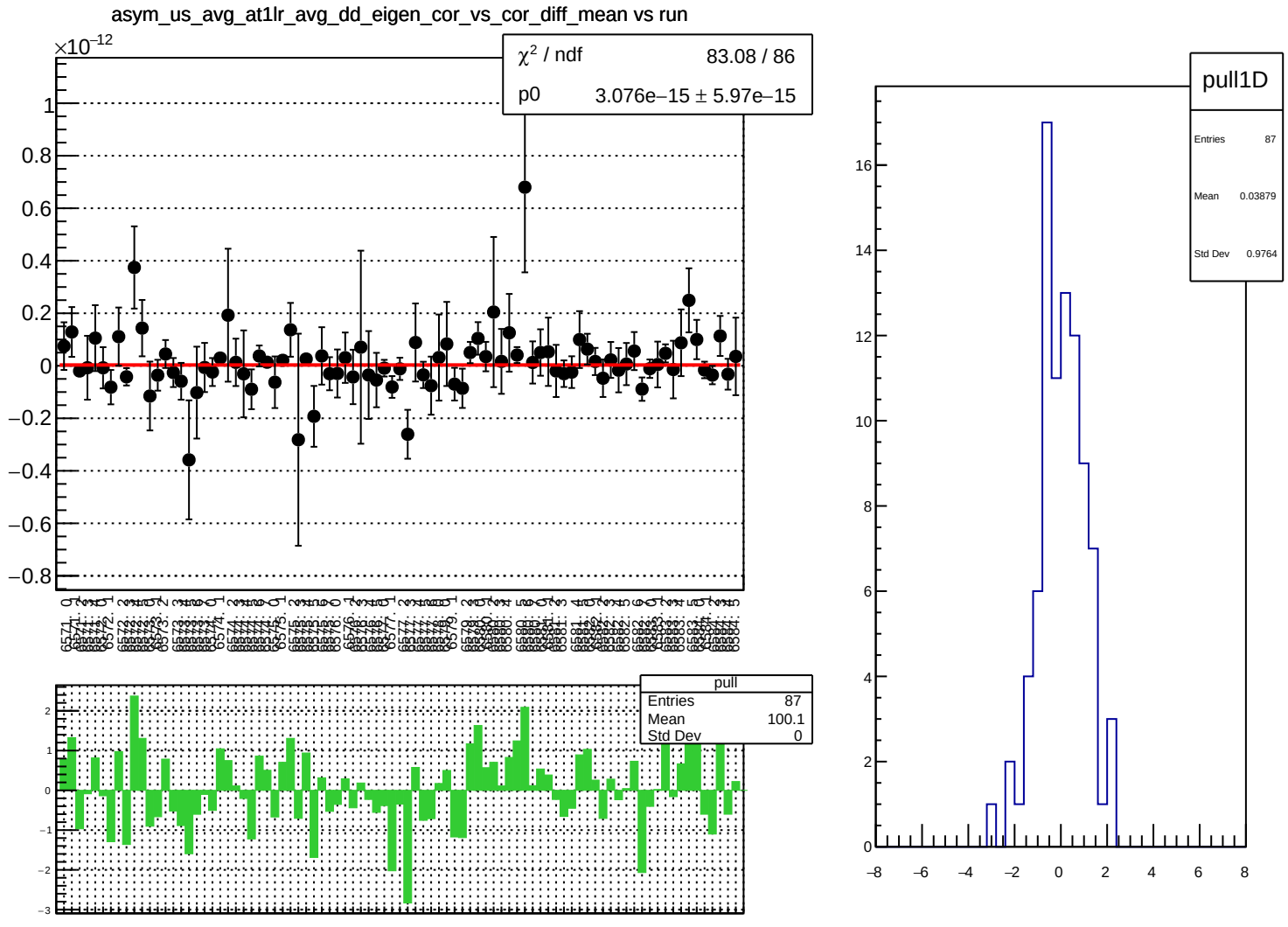

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.51 / 86
p0 0.1471± 0.04455
pull
Entries 87
Mean 484.1
Std Dev 0

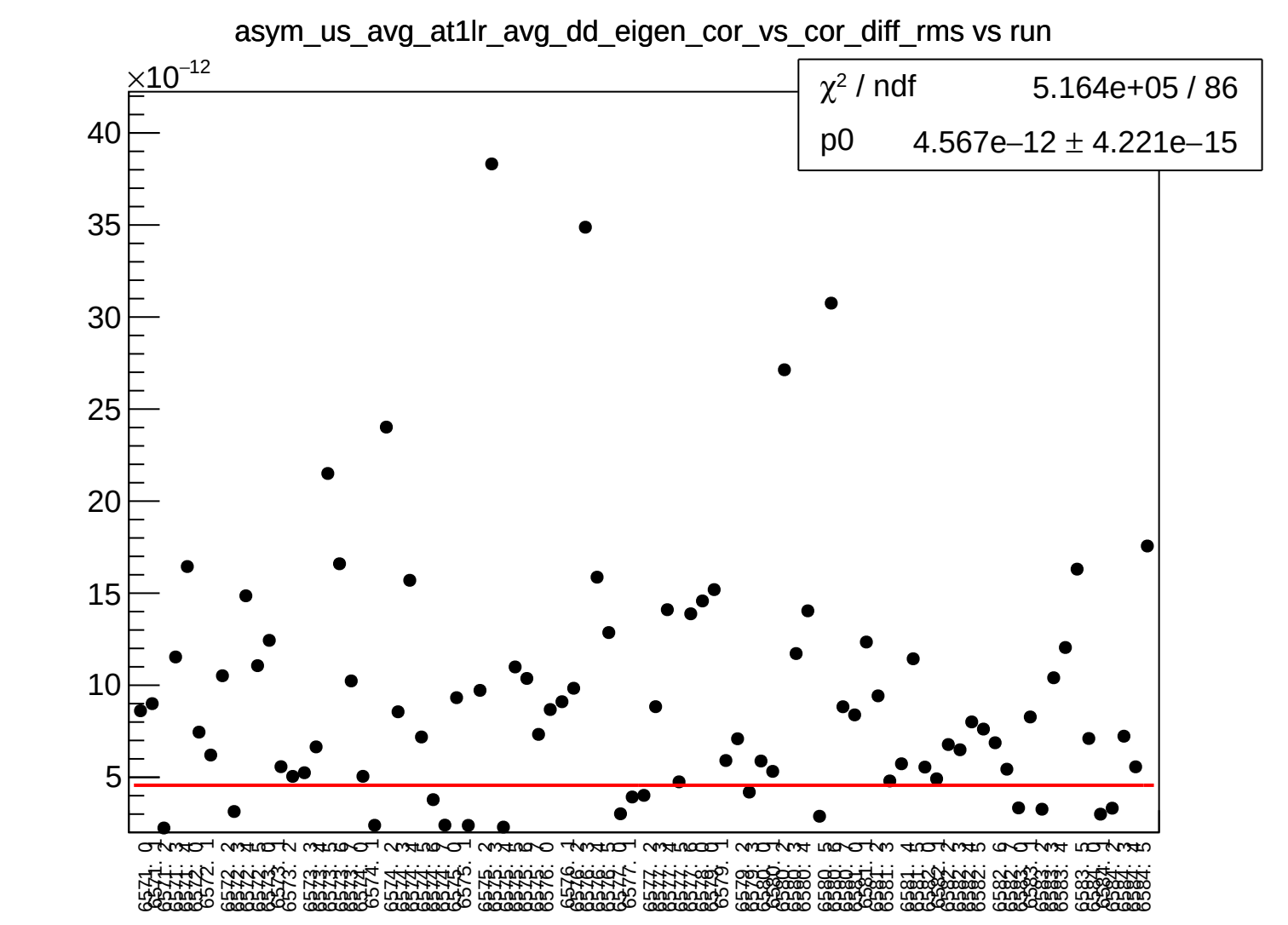

pull1D
Entries 87
Mean 0.009113
Std Dev 0.9855

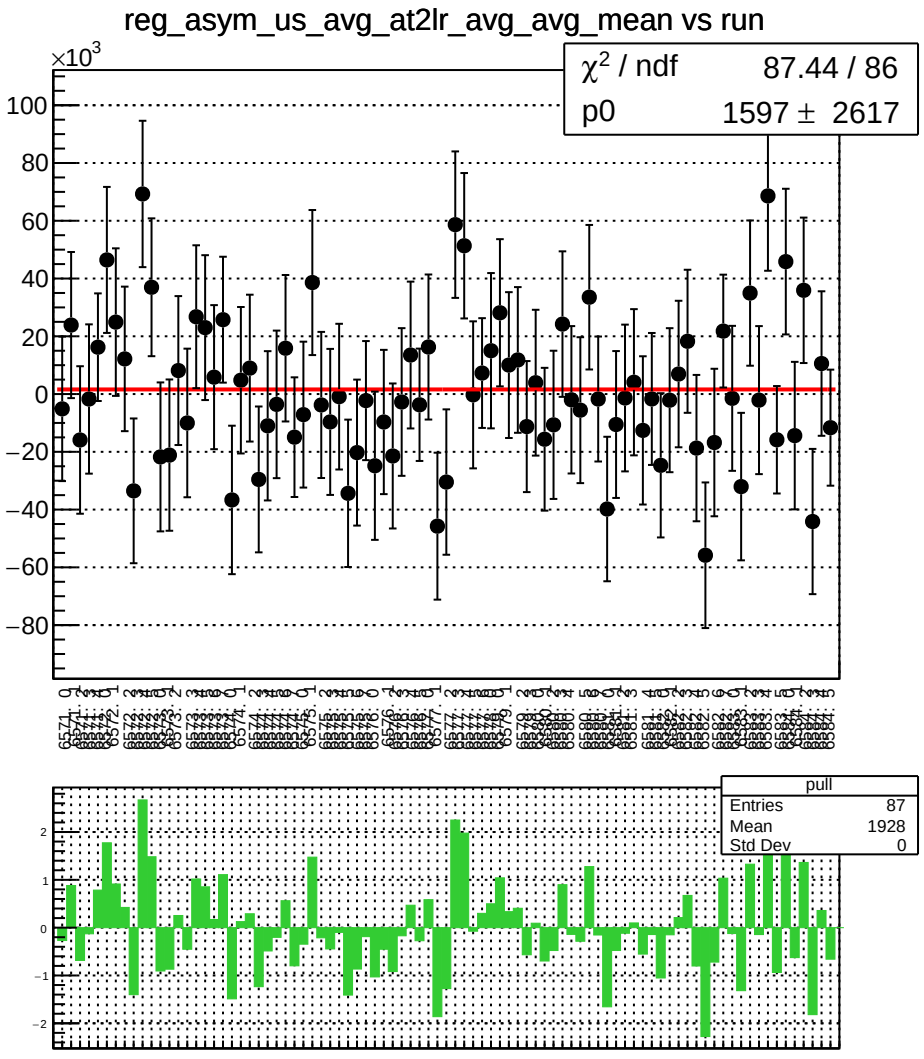

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.556e+05 / 86
p0 36.34 ± 0.0315
160
140
120
100
80
60
40
20

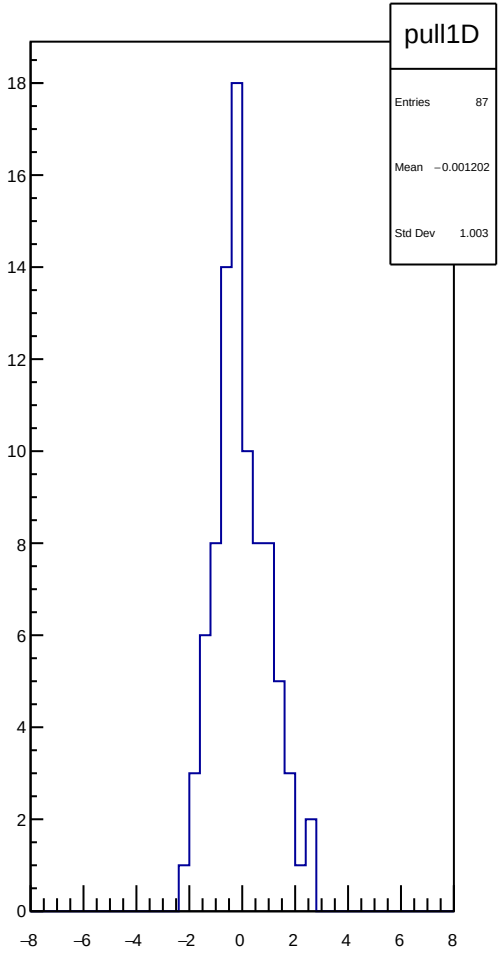

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.51 / 86
p0 0.1471± 0.04455
pull
Entries 87
Mean 484.1
Std Dev 0
pull1D
Entries 87
Mean 0.009113
Std Dev 0.9855

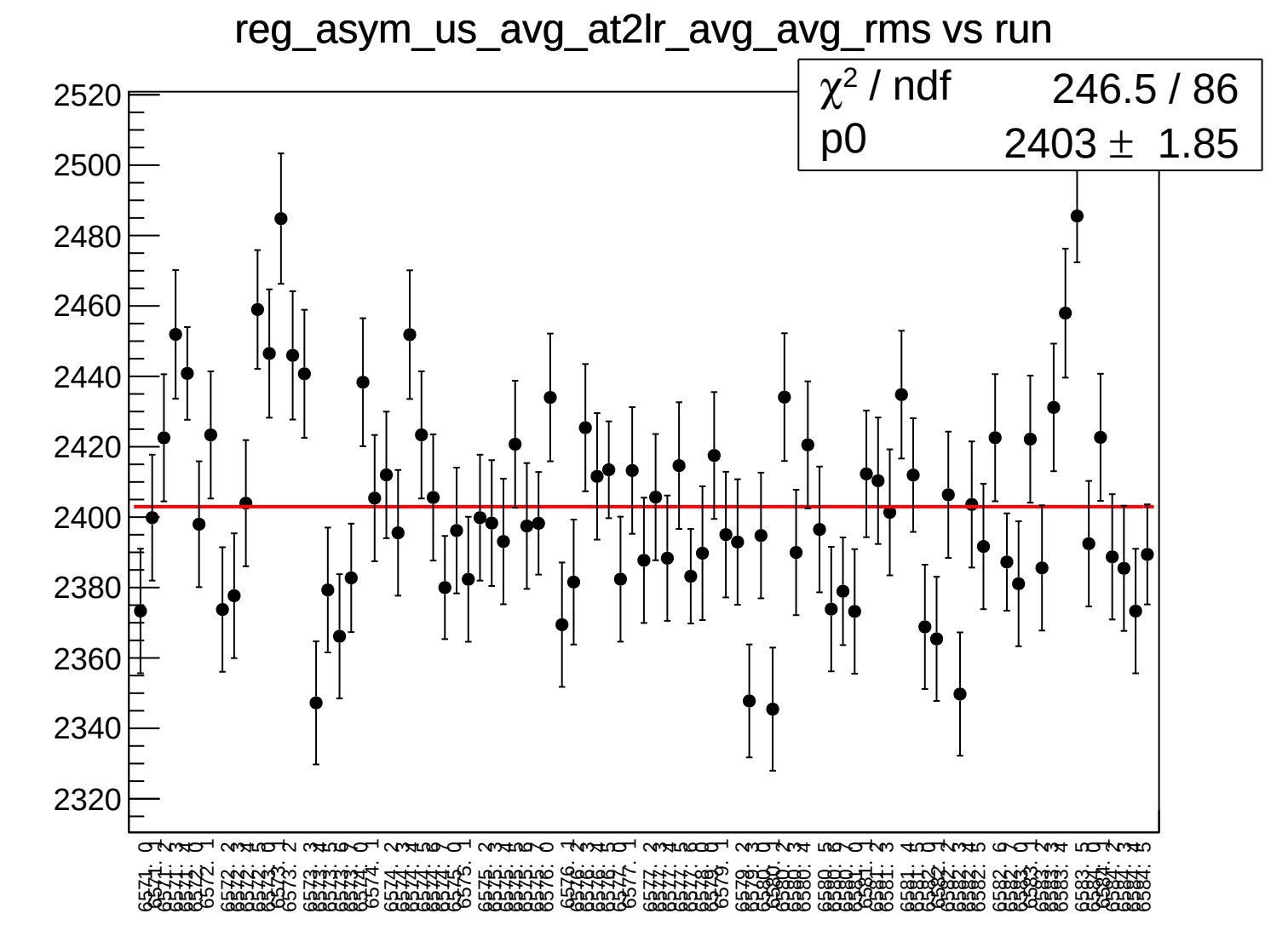

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.556e+05 / 86
p0 36.34 ± 0.0315
160
140
120
100
80
60
40
20

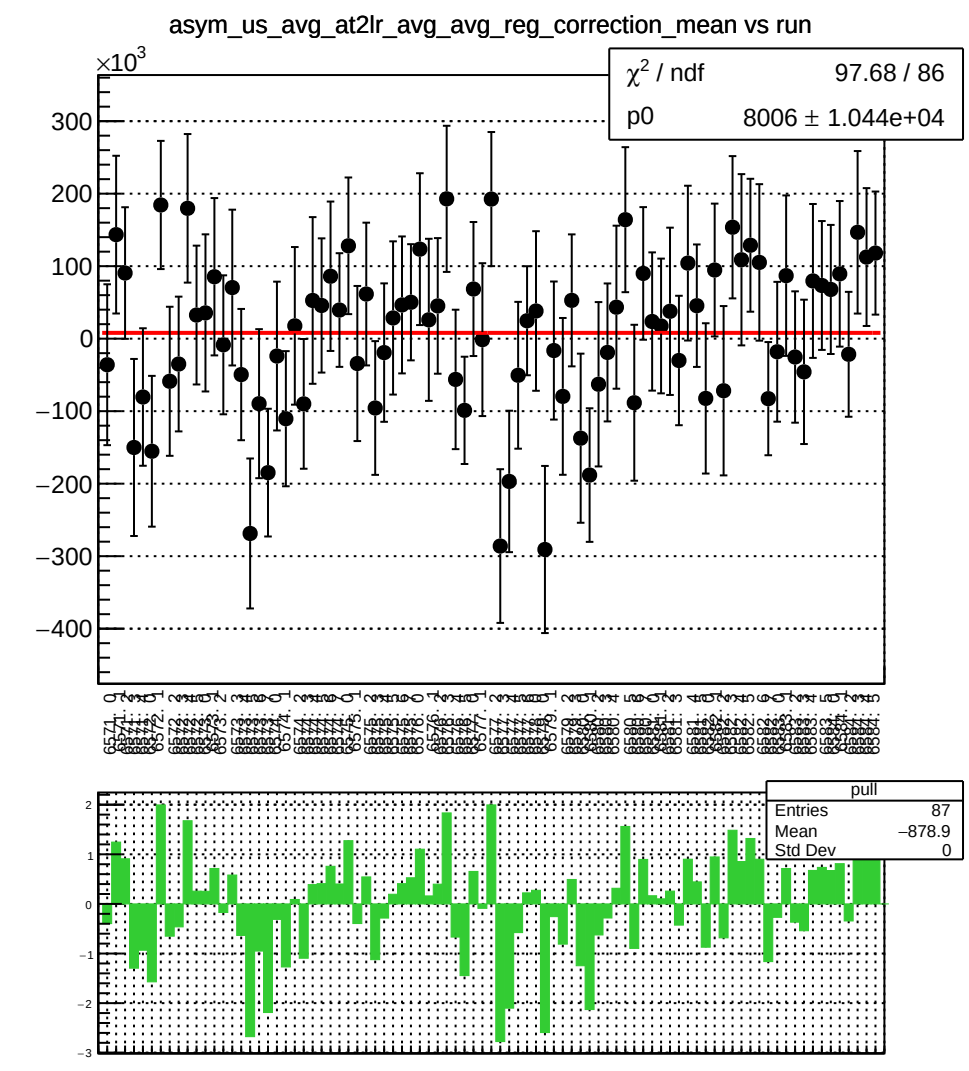

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.08 / 86
p0 3.076e−15 ± 5.97e−15
pull
Entries 87
Mean 100.1
Std Dev 0
pull1D
Entries 87
Mean 0.03879
Std Dev 0.9764

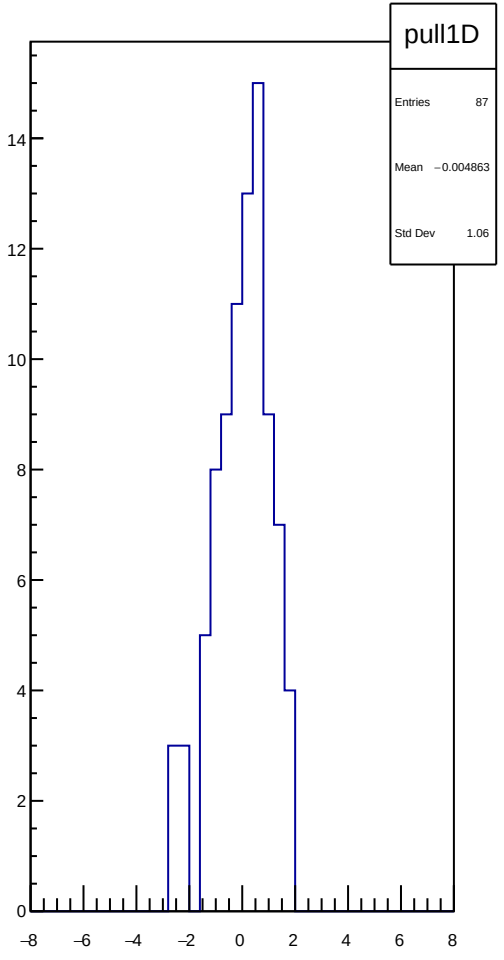

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.164e+05 / 86
p0 4.567e−12 ± 4.221e−15
40
35
30
25
20
15
10
5

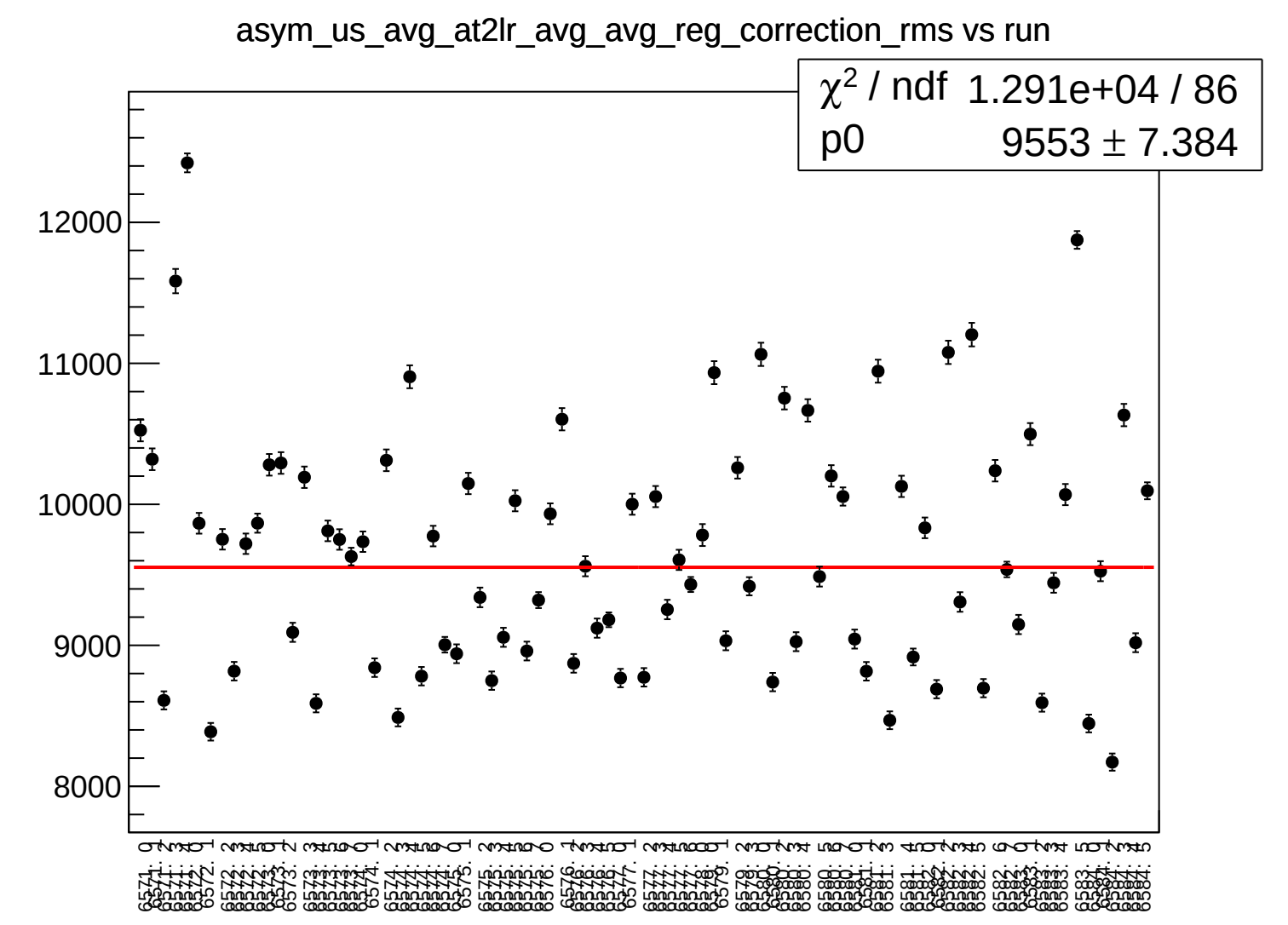

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 87.44 / 86
p0 1597 ± 2617
pull
Entries 87
Mean 1928
Std Dev 0

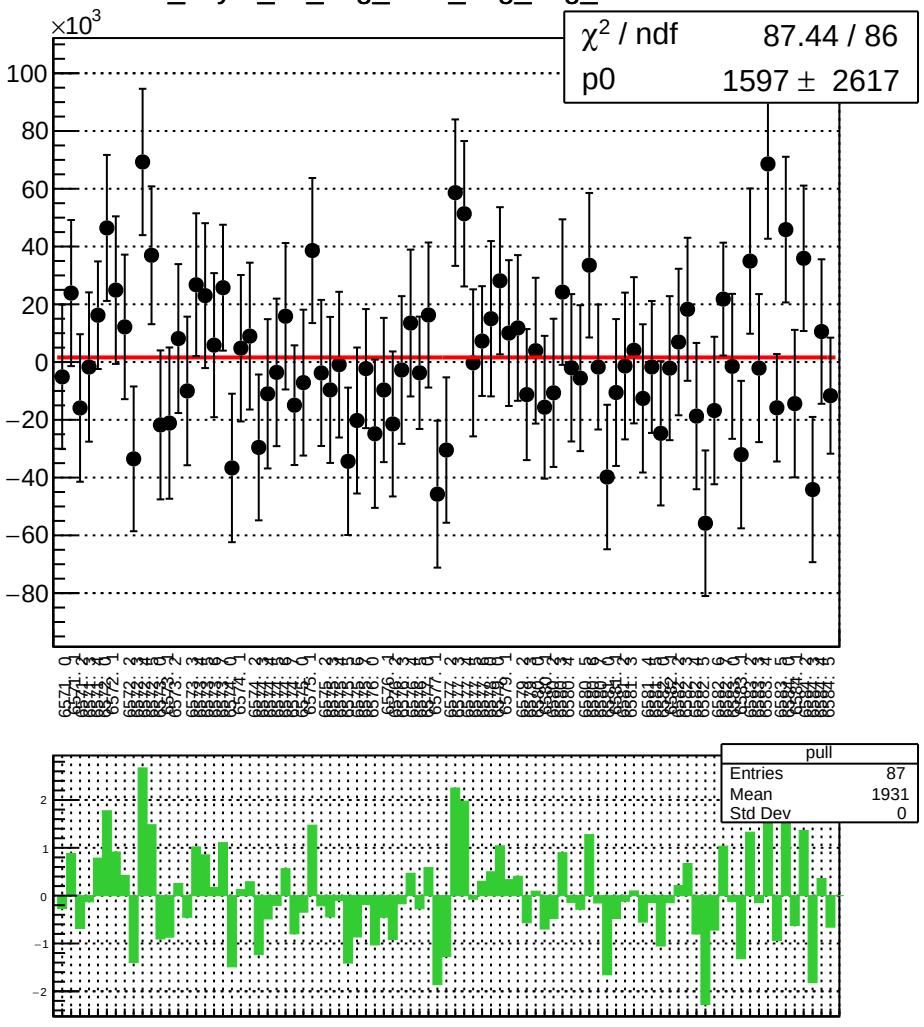

pull1D
Entries 87
Mean −0.001202
Std Dev 1.003

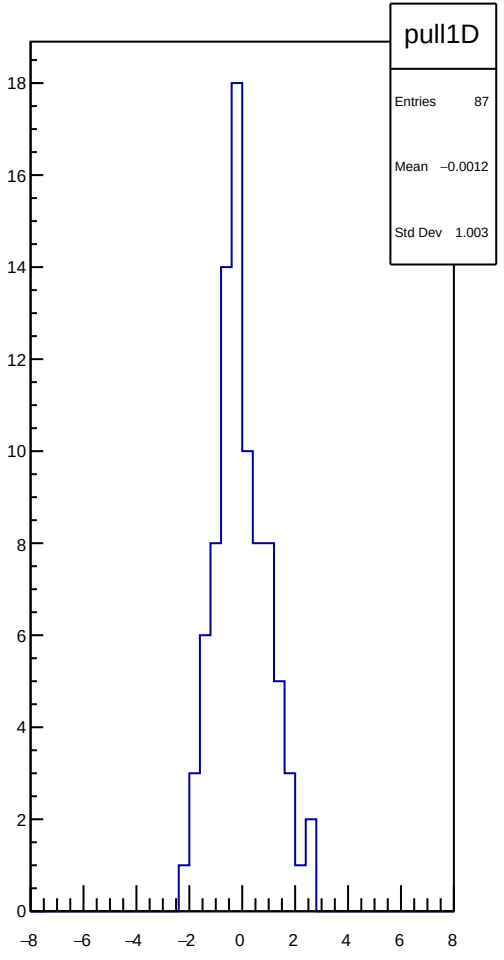

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 246.5 / 86
p0 2403 ± 1.85
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

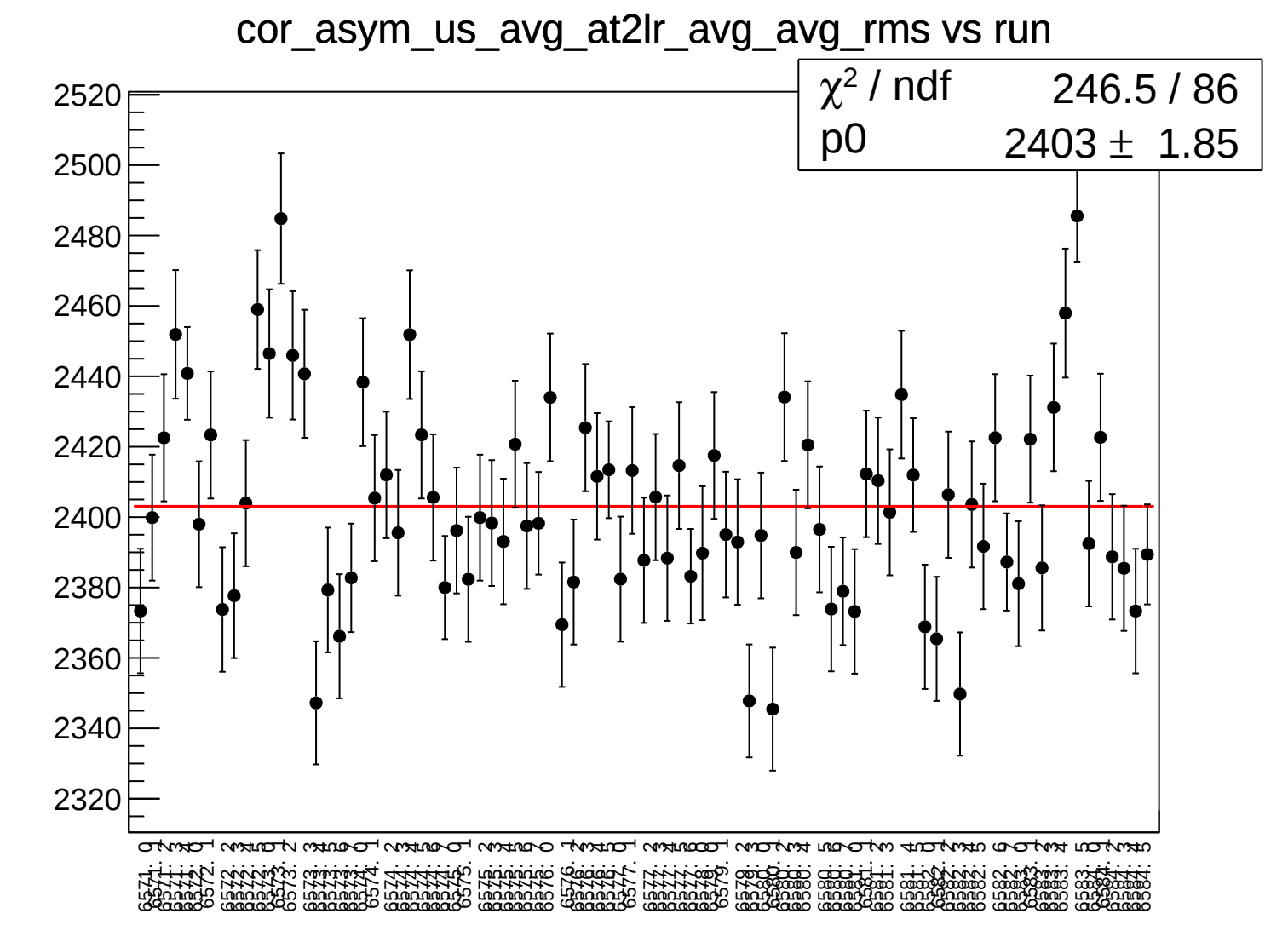

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.68 / 86
p0 8006 ± 1.044e+04
pull
Entries 87
Mean −878.9
Std Dev 0

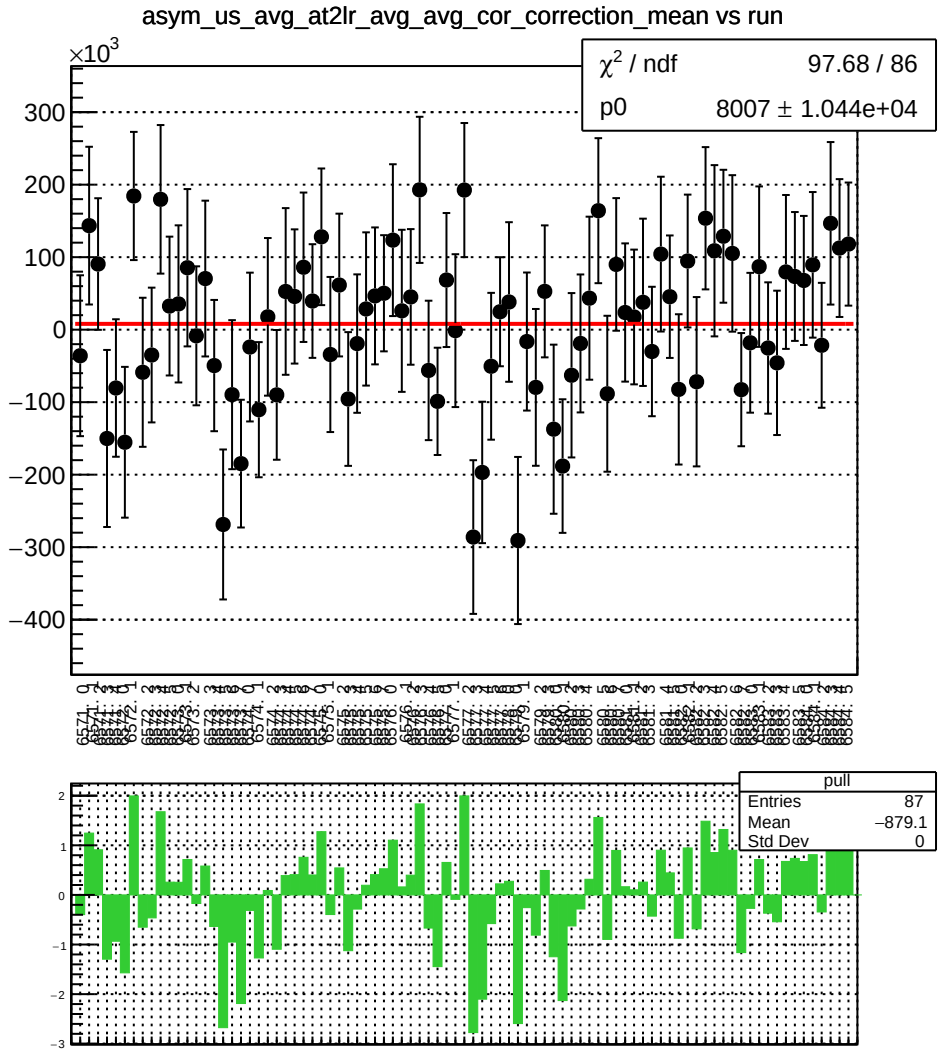

pull1D
Entries 87
Mean −0.004863
Std Dev 1.06

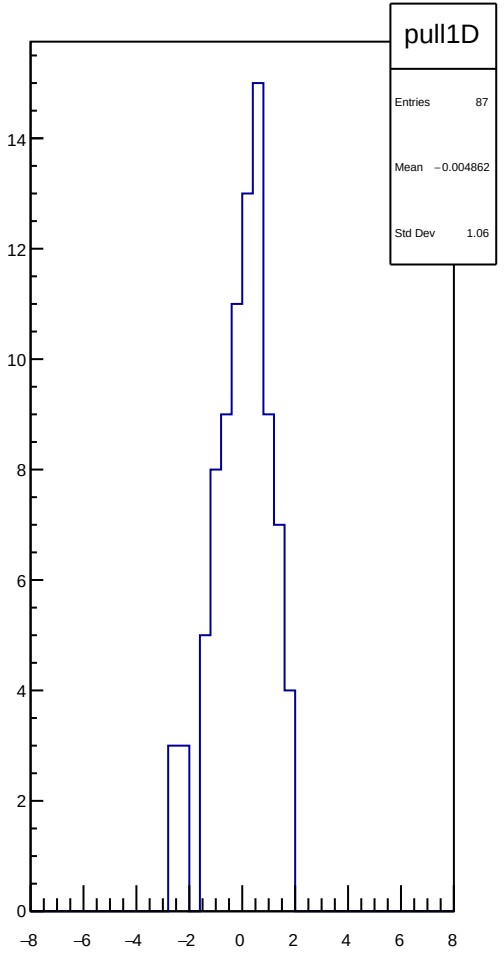

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.291e+04 / 86
p0 9553 ± 7.384
12000
11000
10000
9000
8000

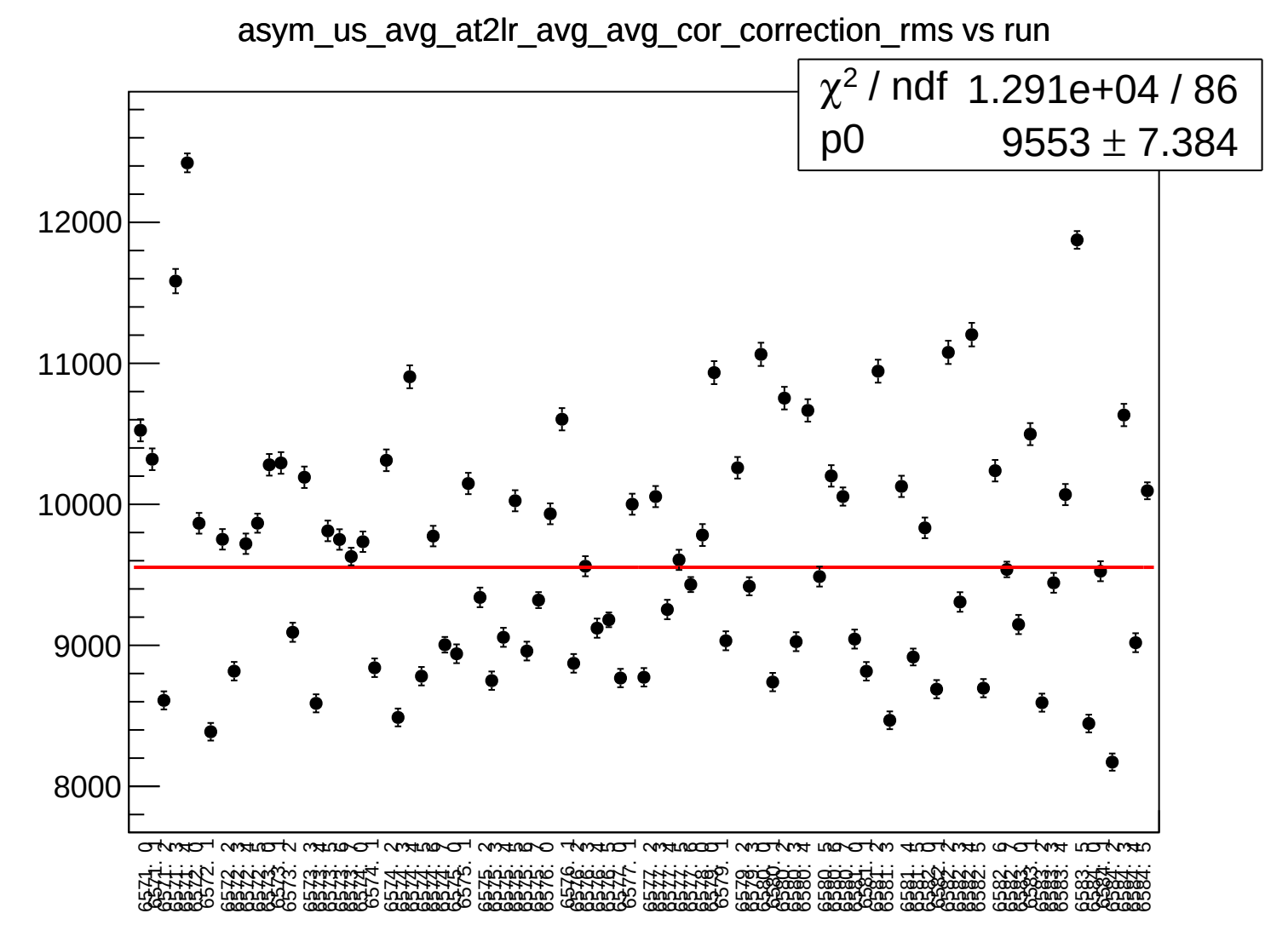

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 87.44 / 86
p0 1597 ± 2617
pull
Entries 87
Mean 1931
Std Dev 0

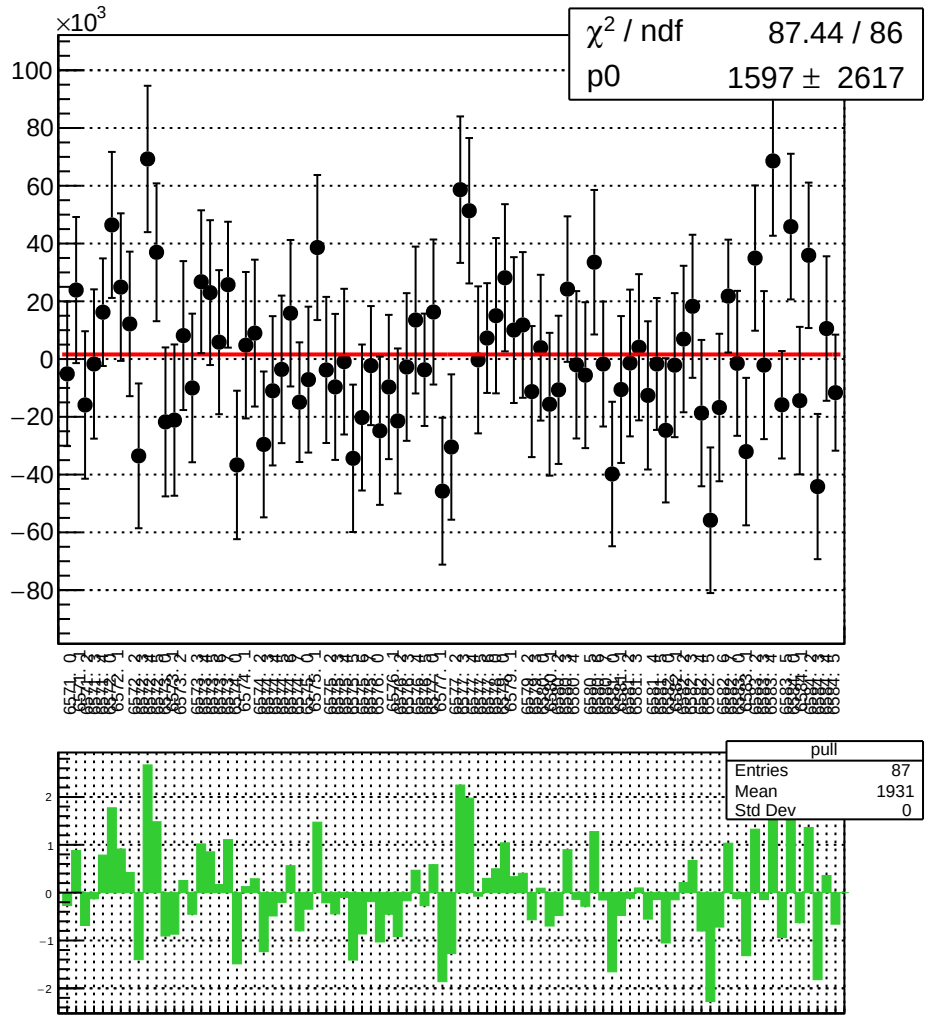

pull1D
Entries 87
Mean −0.0012
Std Dev 1.003

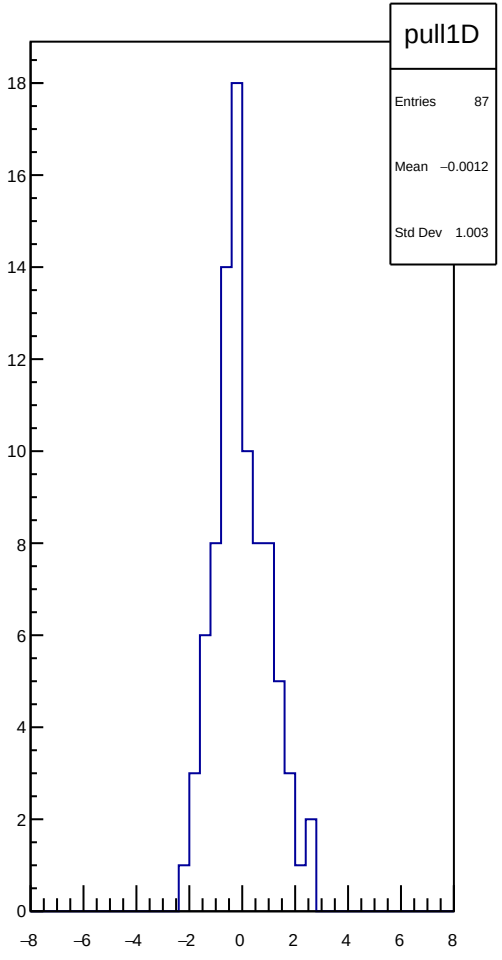

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 246.5 / 86
p0 2403 ± 1.85
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

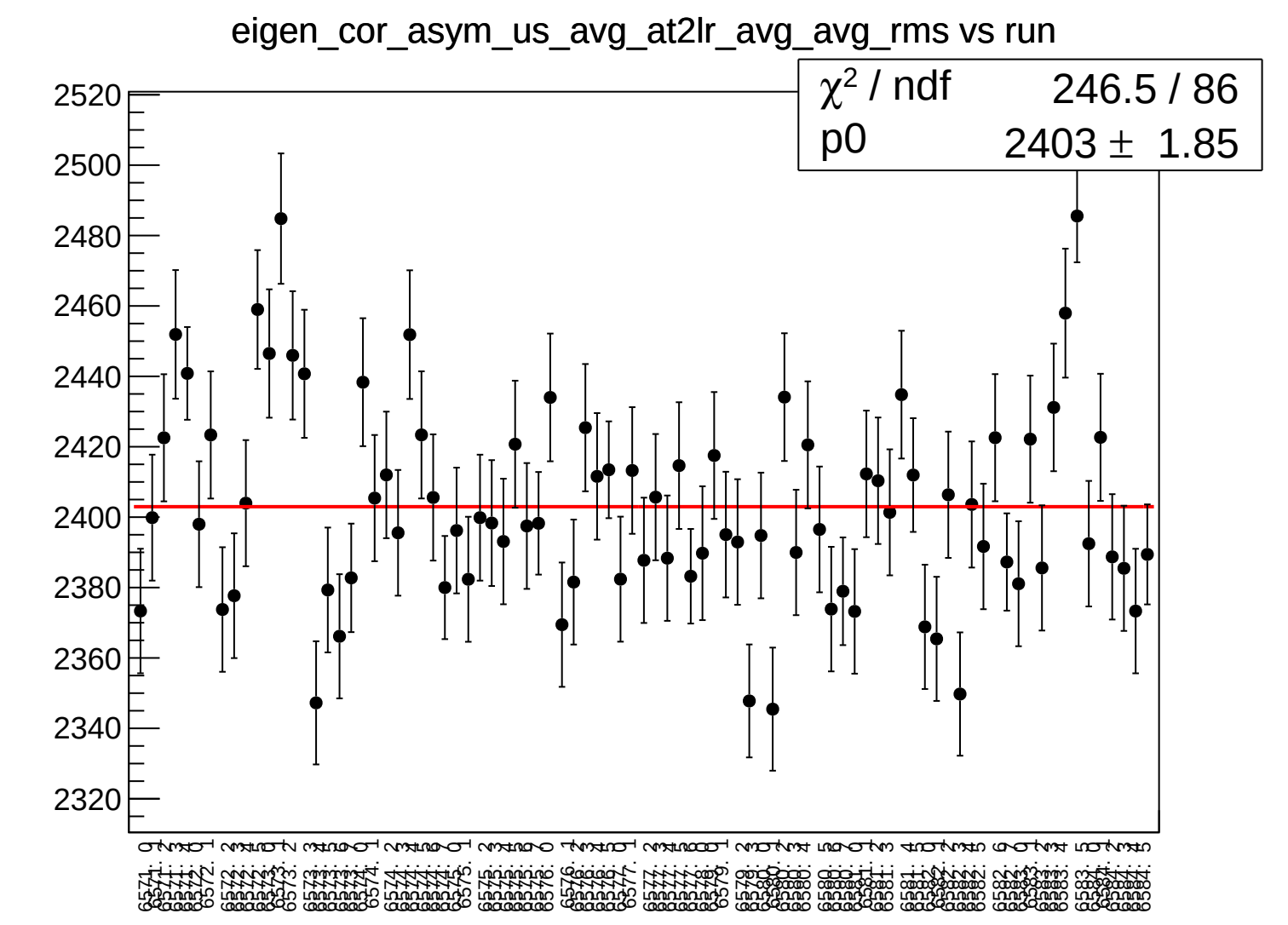

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.68 / 86
p0 8007 ± 1.044e+04
pull
Entries 87
Mean −879.1
Std Dev 0

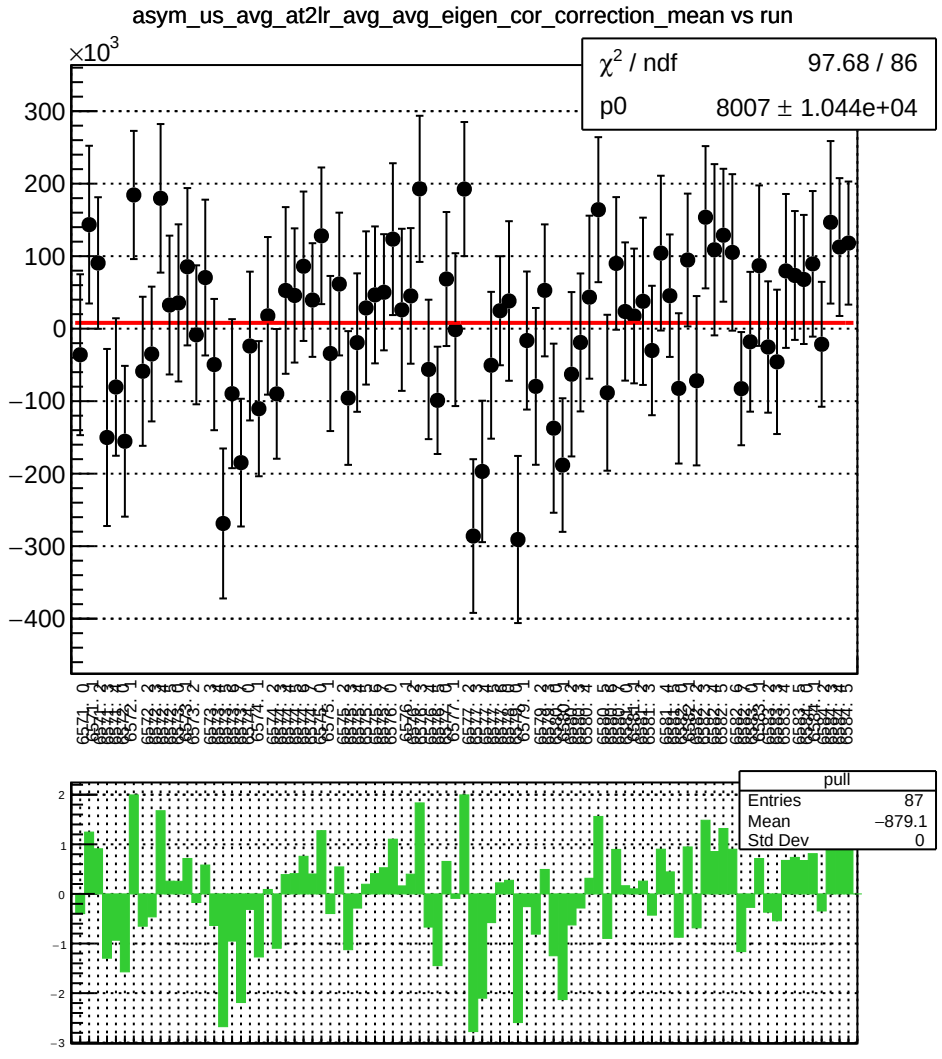

pull1D
Entries 87
Mean −0.004862
Std Dev 1.06

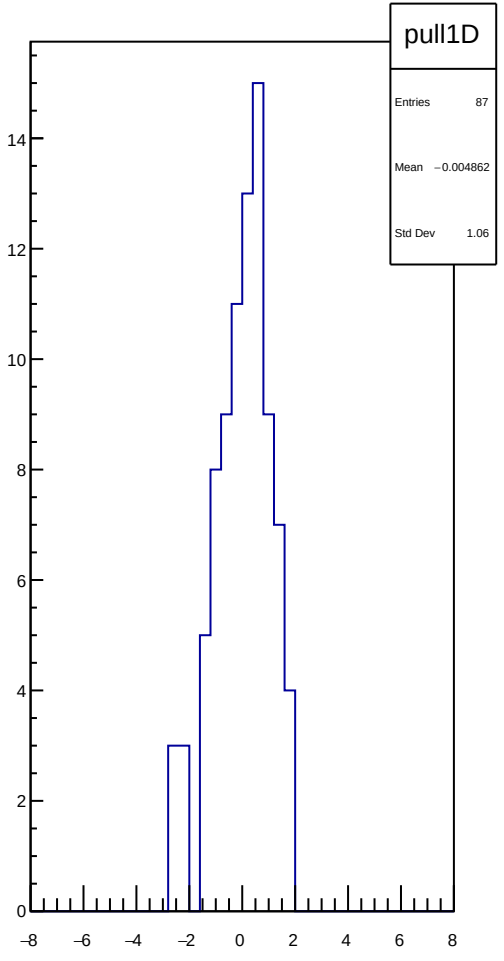

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.291e+04 / 86
p0 9553 ± 7.384
12000
11000
10000
9000
8000

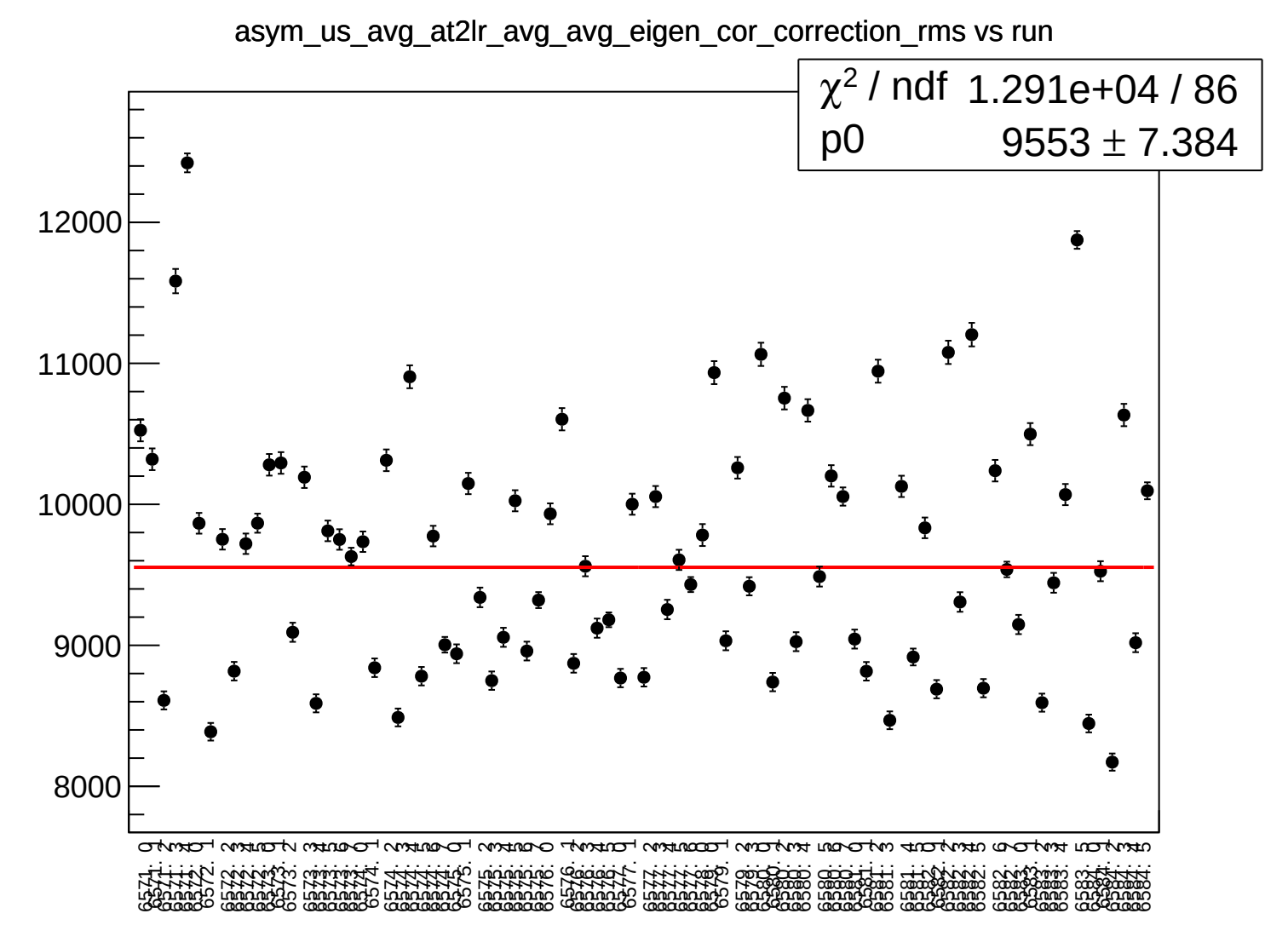

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 87.44 / 86
p0 1597 ± 2617
pull
Entries 87
Mean 1931
Std Dev 0

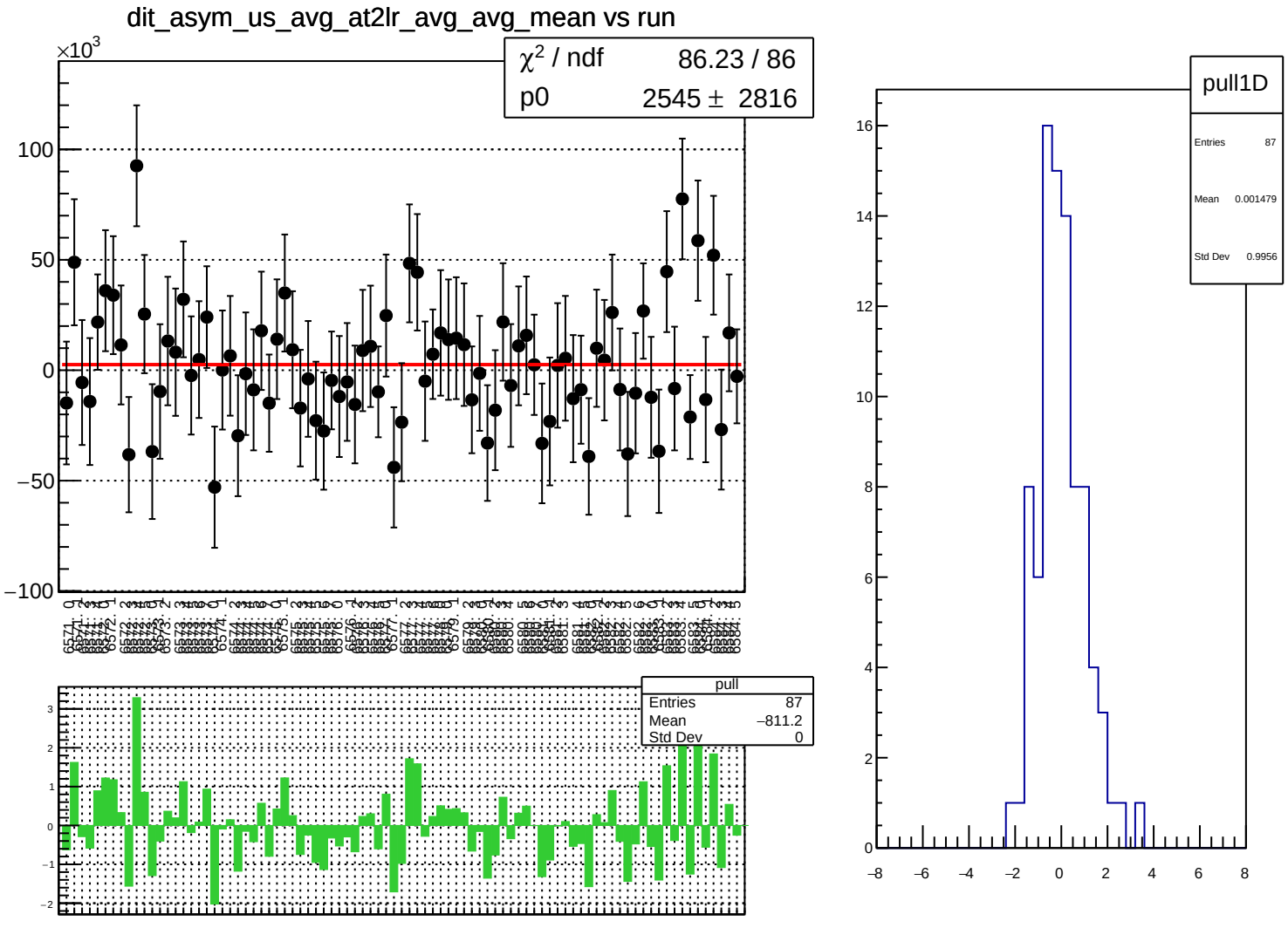

pull1D
Entries 87
Mean −0.0012
Std Dev 1.003

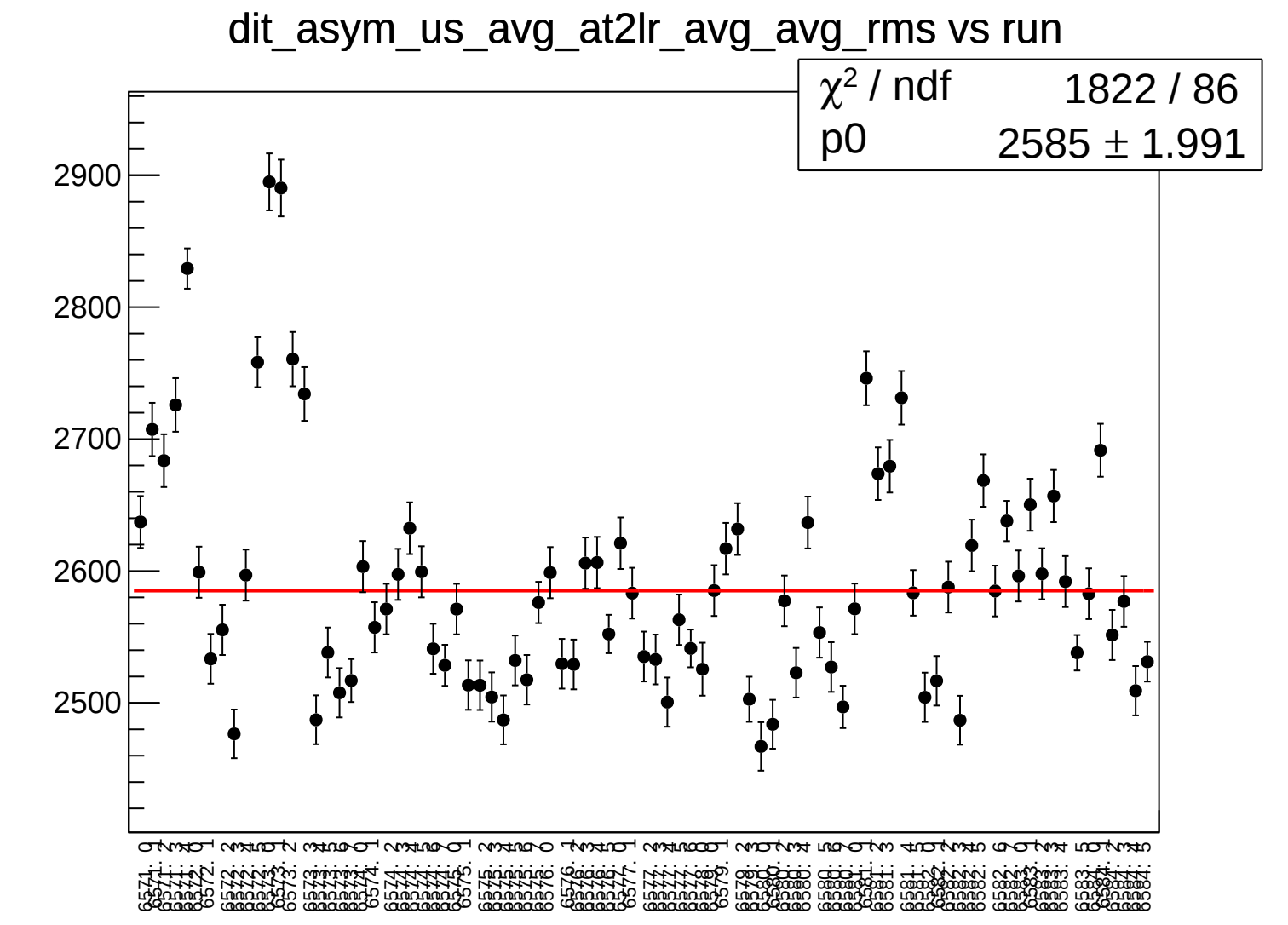

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 246.5 / 86
p0 2403 ± 1.85
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

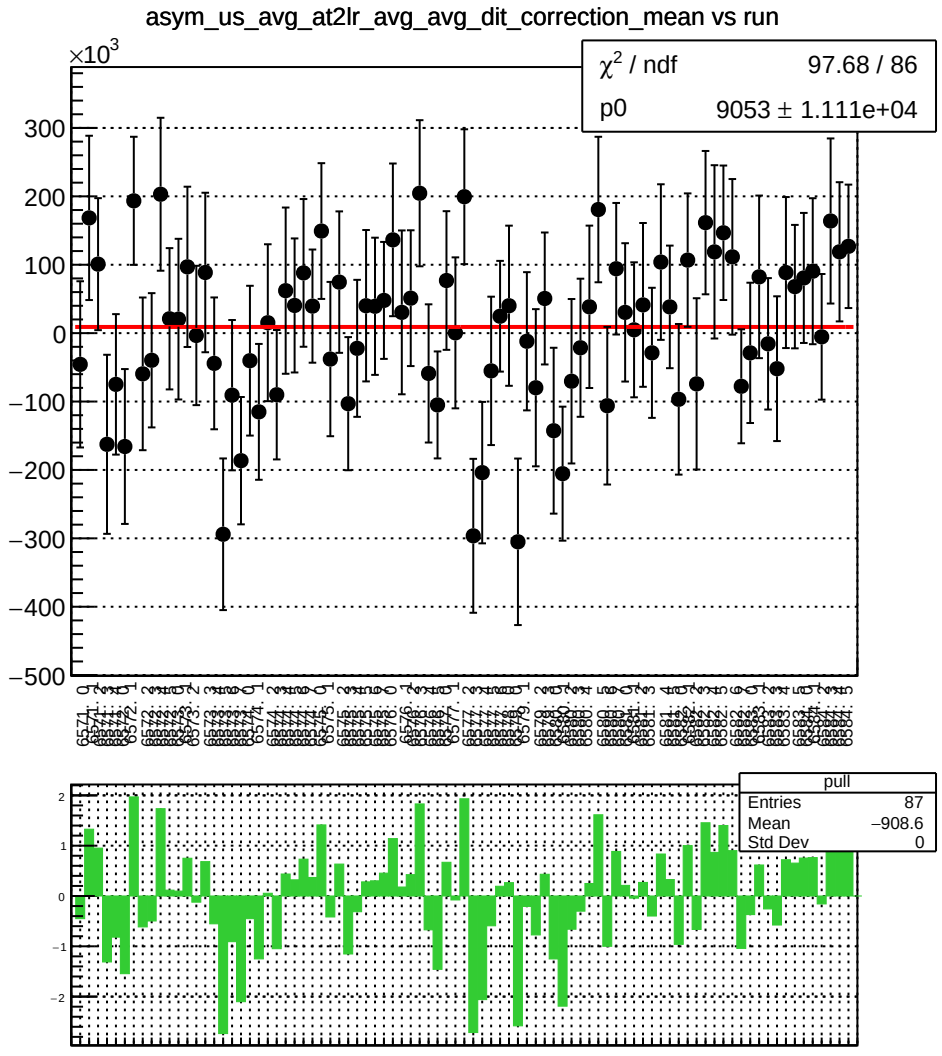

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.68 / 86
p0 8007 ± 1.044e+04
×10³
pull
Entries 87
Mean −879.1
Std Dev 0

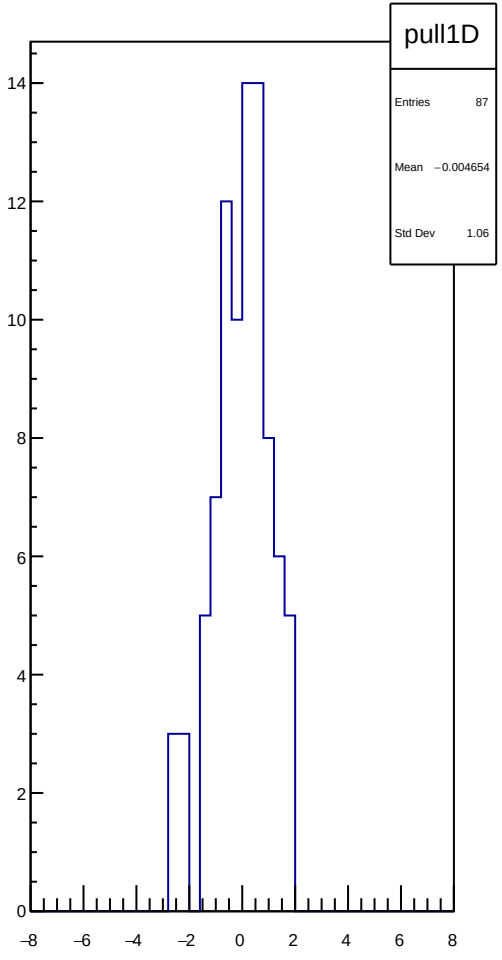

pull1D
Entries 87
Mean −0.004862
Std Dev 1.06

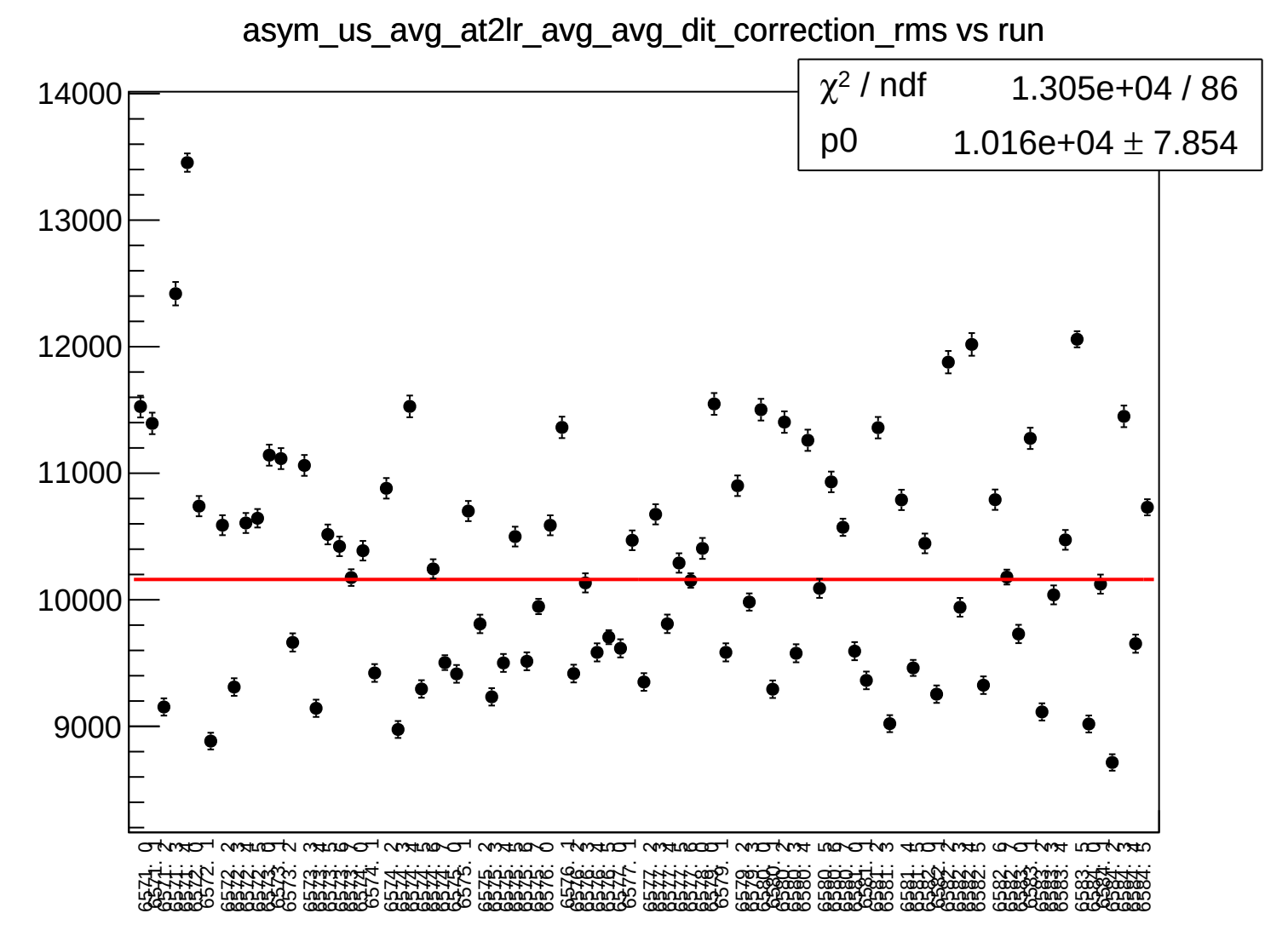

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.291e+04 / 86
p0 9553 ± 7.384
12000
11000
10000
9000
8000

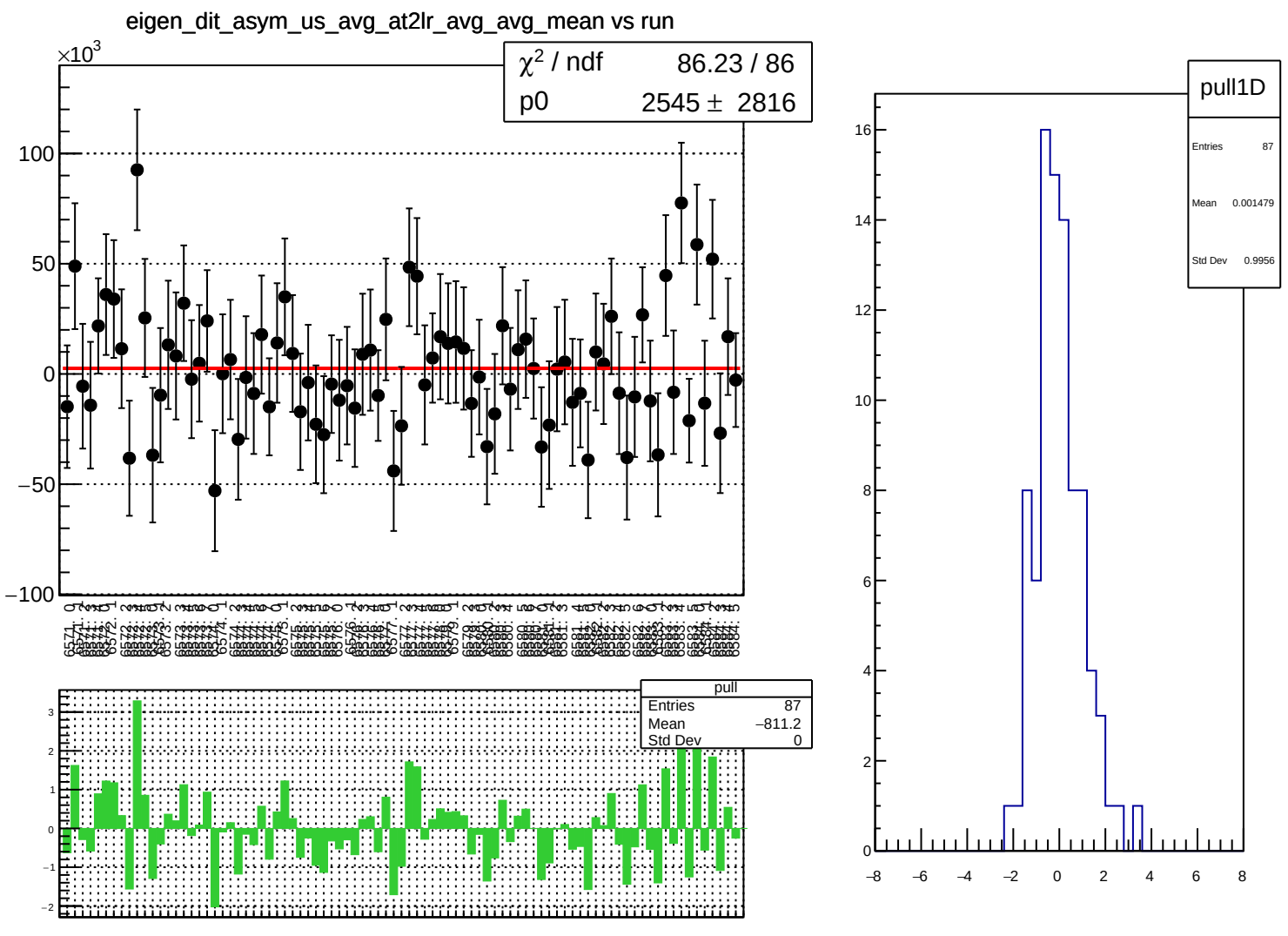

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 86.23 / 86
p0 2545 ± 2816
100
50
0
−50
−100
pull
Entries 87
Mean −811.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.001479
Std Dev 0.9956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

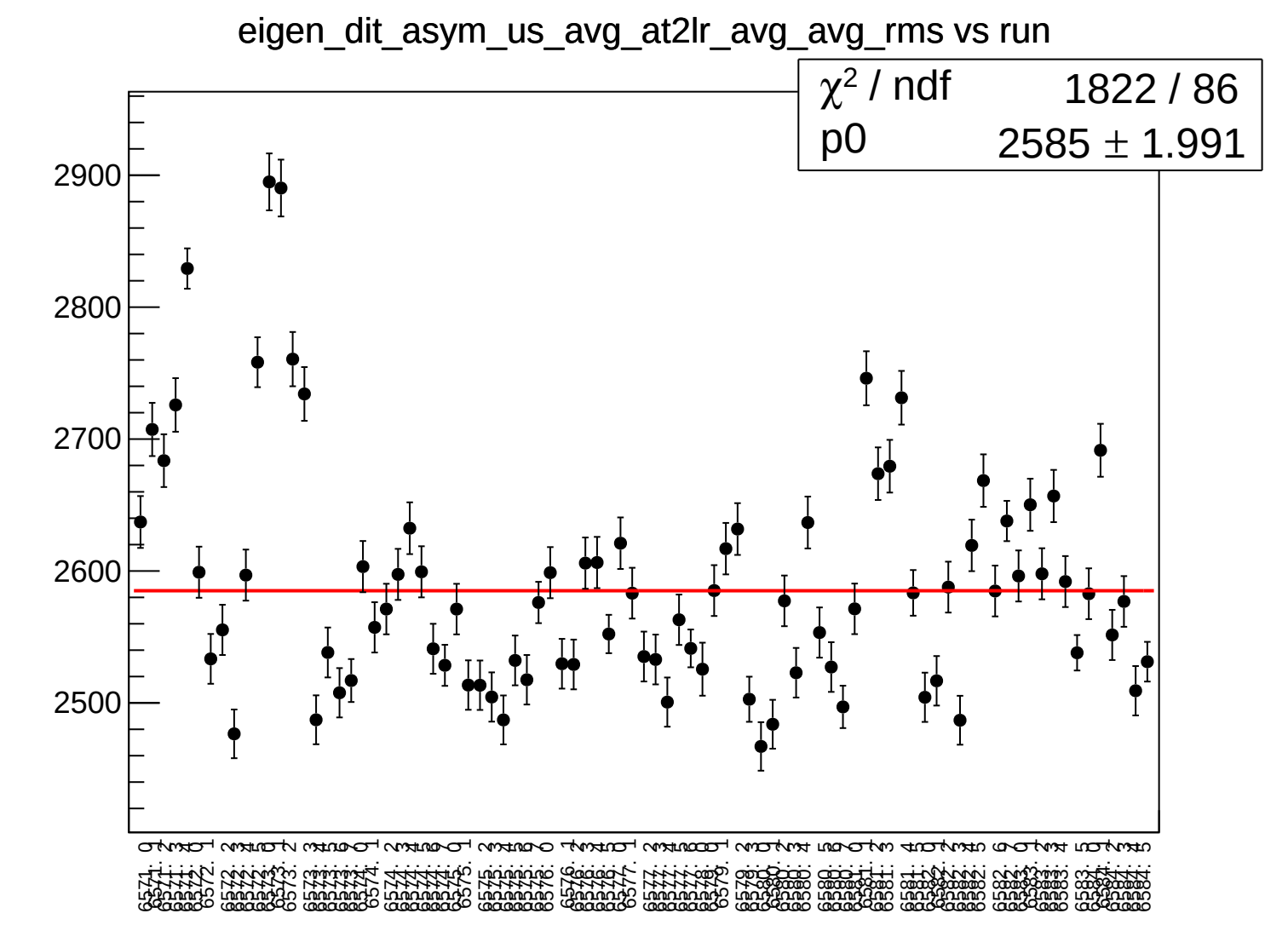

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1822 / 86
p0 2585 ± 1.991
2900
2800
2700
2600
2500

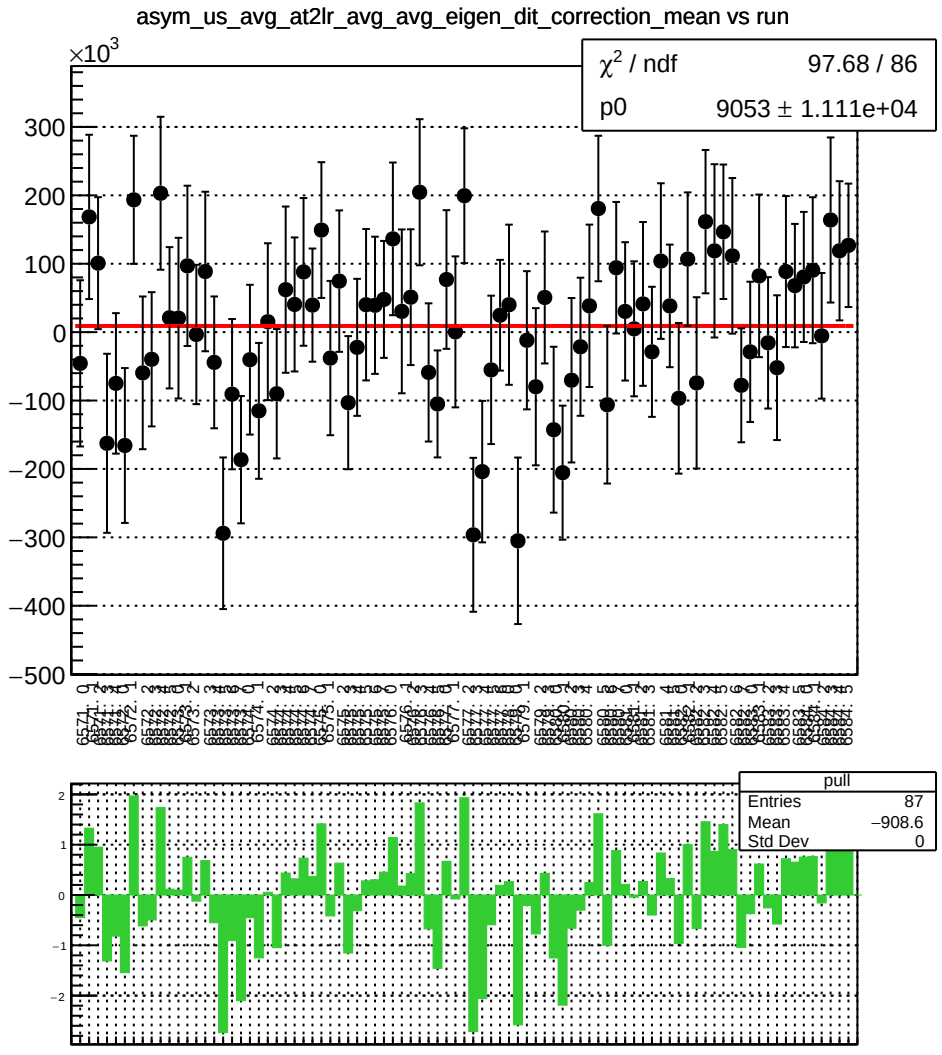

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.68 / 86
p0 9053 ± 1.111e+04
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 87
Mean −908.6
Std Dev 0
2
1
0
−1
−2

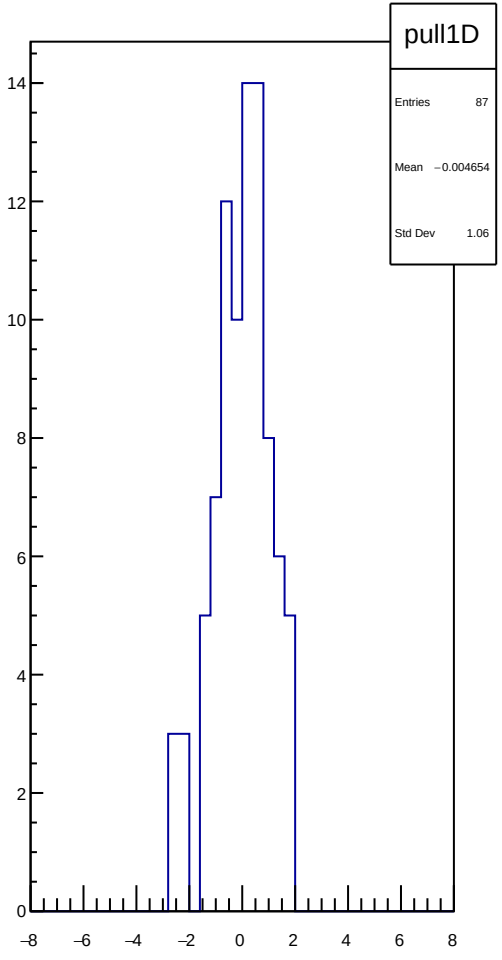

pull1D
Entries 87
Mean −0.004654
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

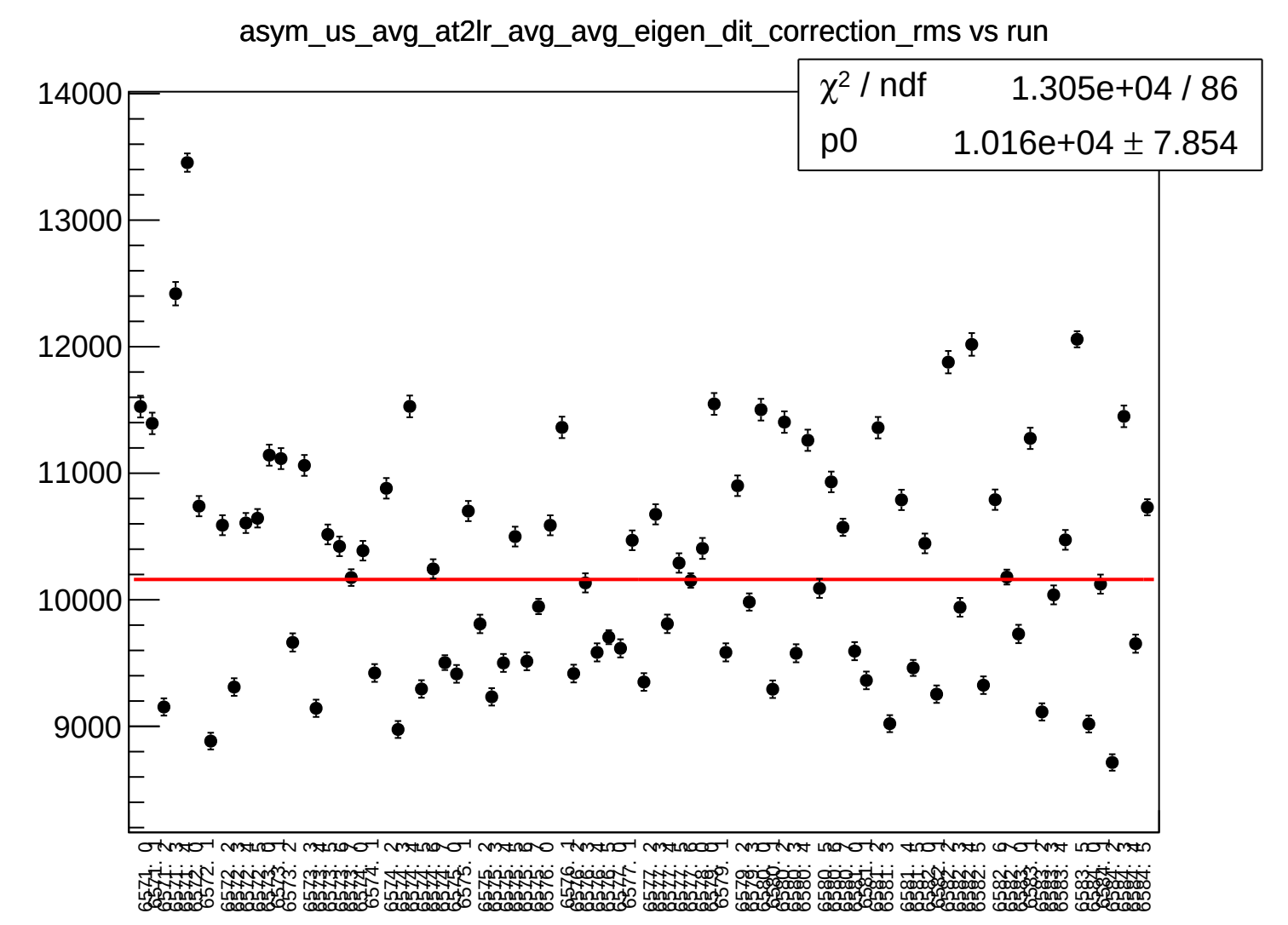

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.305e+04 / 86
p0 1.016e+04 ± 7.854
14000
13000
12000
11000
10000
9000

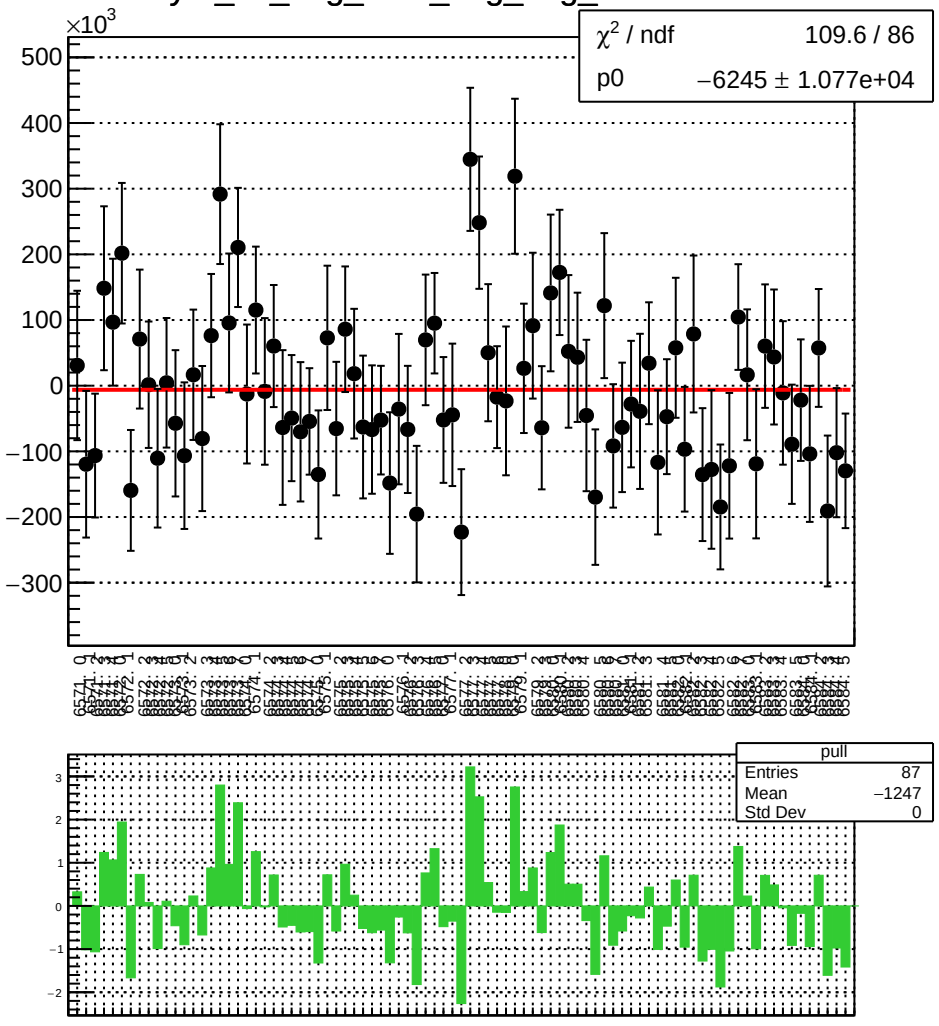

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 86.23 / 86
p0 2545 ± 2816
100
50
0
−50
−100
pull
Entries 87
Mean −811.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.001479
Std Dev 0.9956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

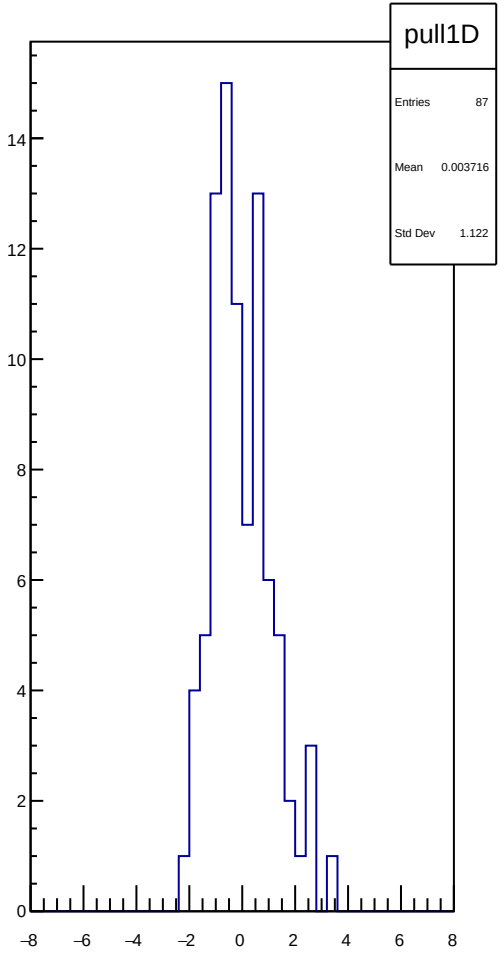

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1822 / 86
p0 2585 ± 1.991
2900
2800
2700
2600
2500

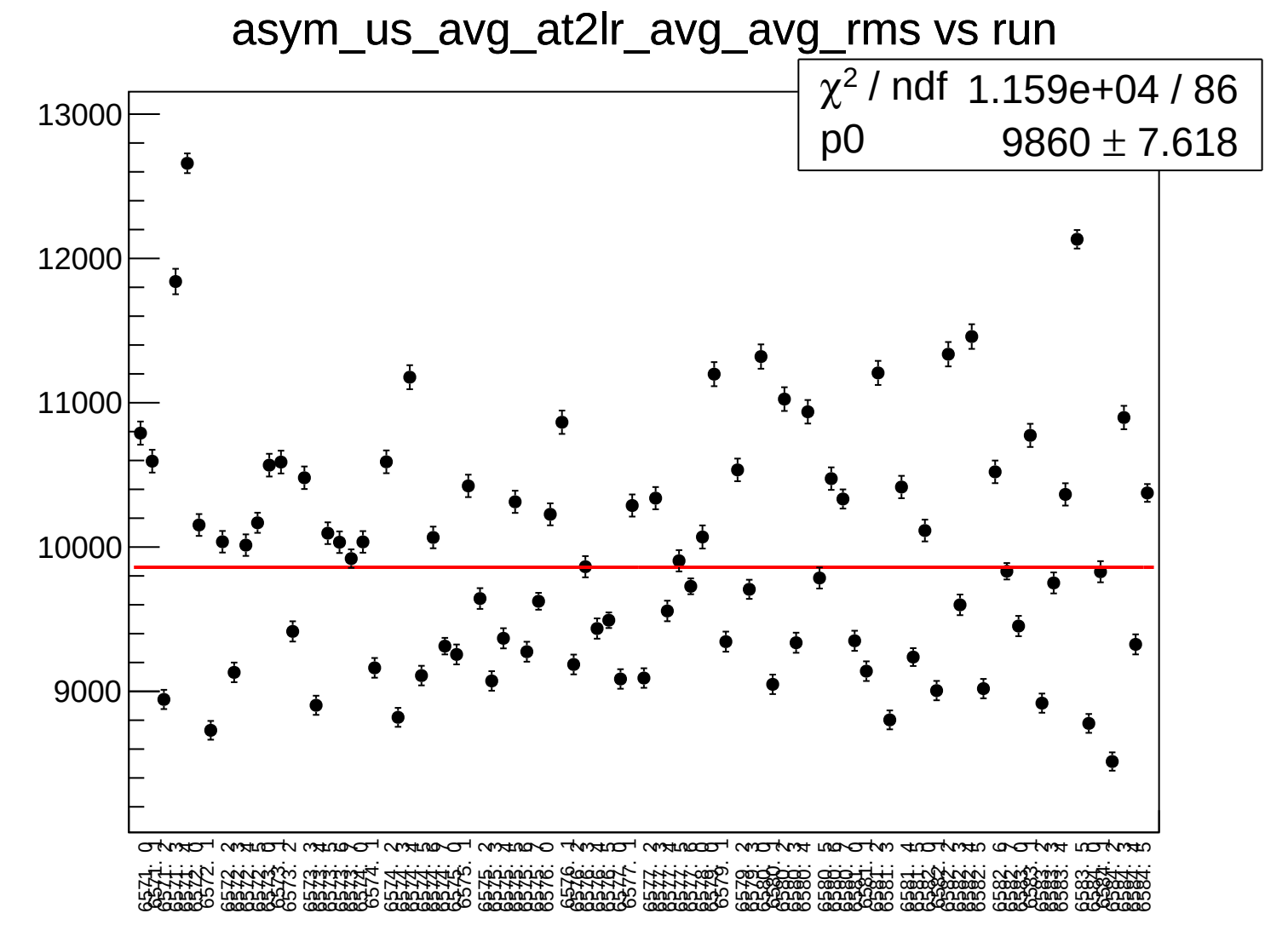

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.68 / 86
p0 9053 ± 1.111e+04
pull
Entries 87
Mean −908.6
Std Dev 0

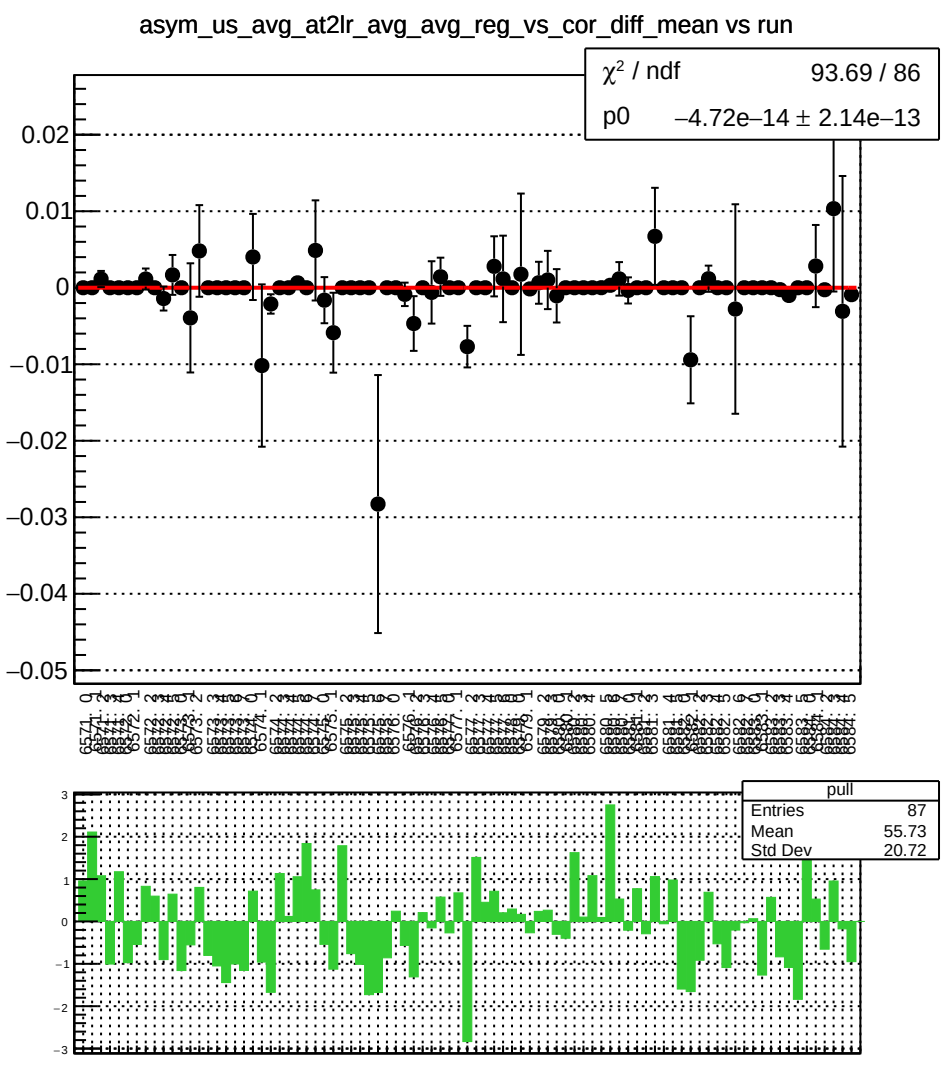

pull1D
Entries 87
Mean −0.004654
Std Dev 1.06

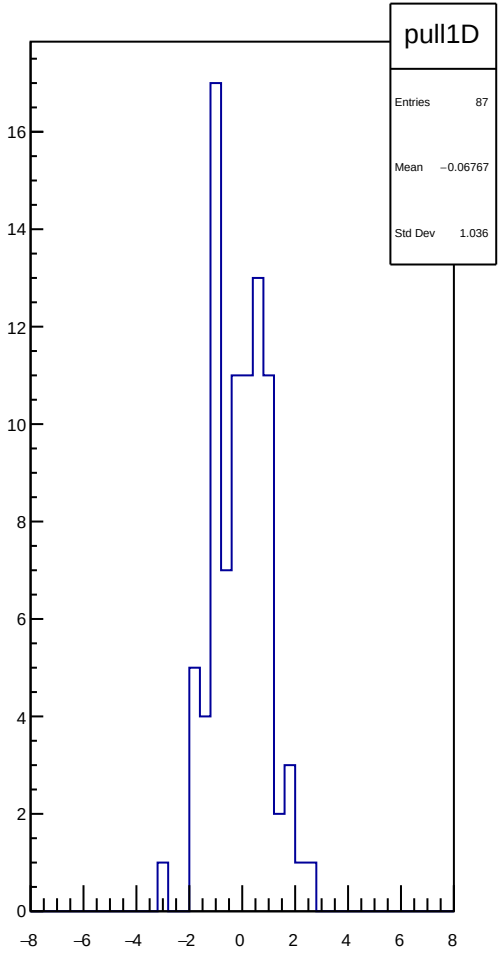

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.305e+04 / 86
p0 1.016e+04 ± 7.854
14000
13000
12000
11000
10000
9000

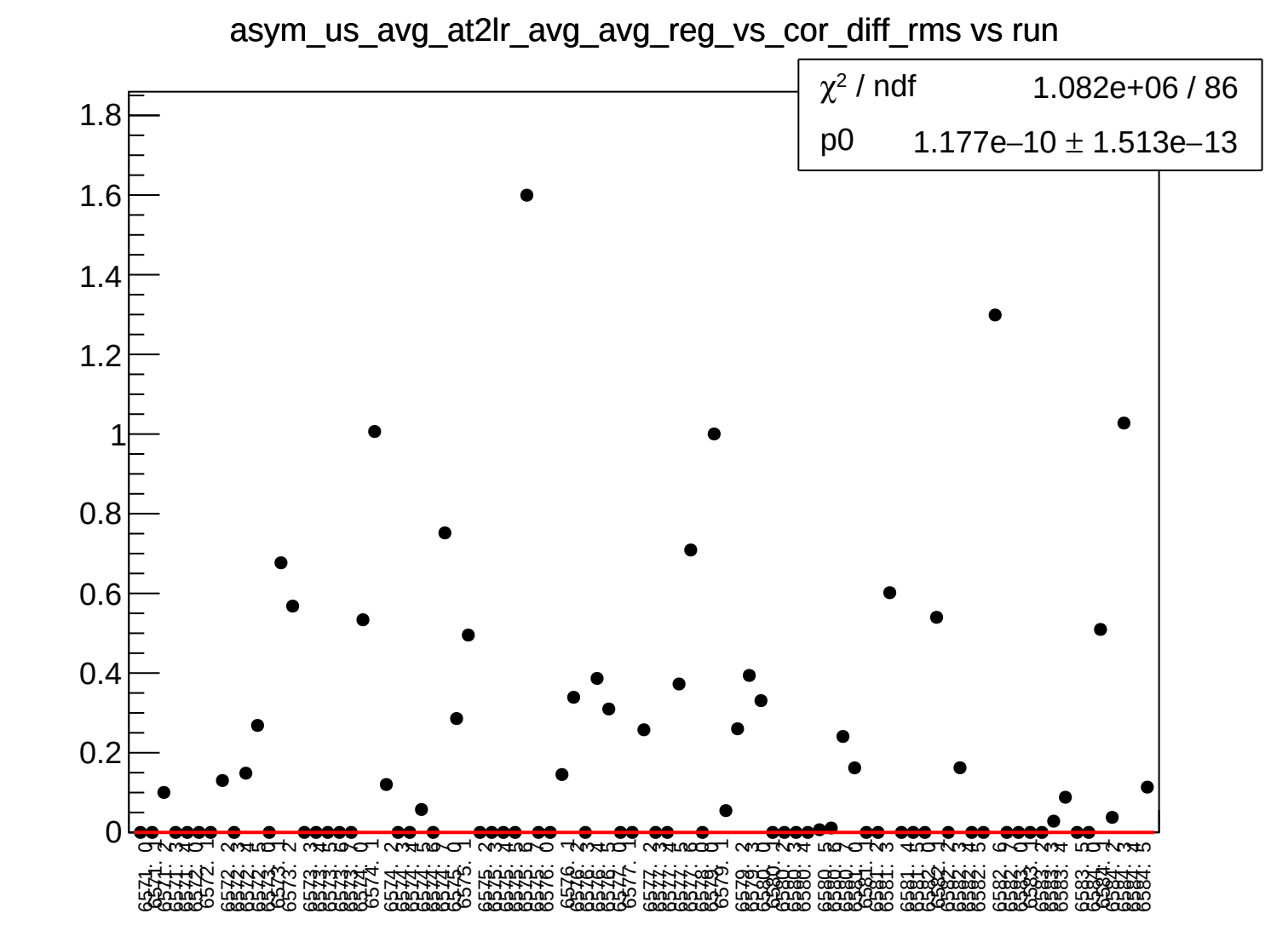

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 109.6 / 86
p0 −6245 ± 1.077e+04
pull
Entries 87
Mean −1247
Std Dev 0

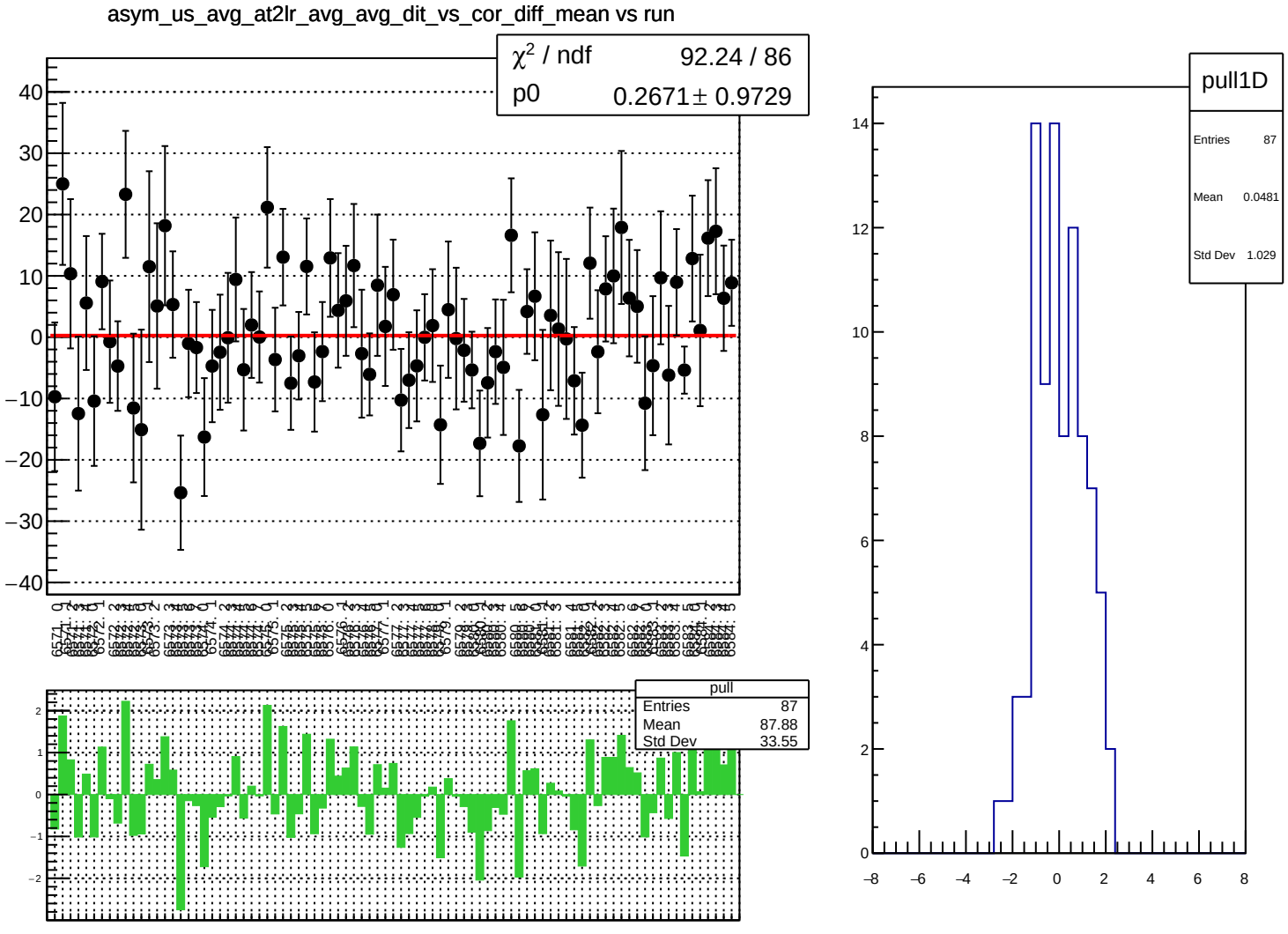

pull1D
Entries 87
Mean 0.003716
Std Dev 1.122

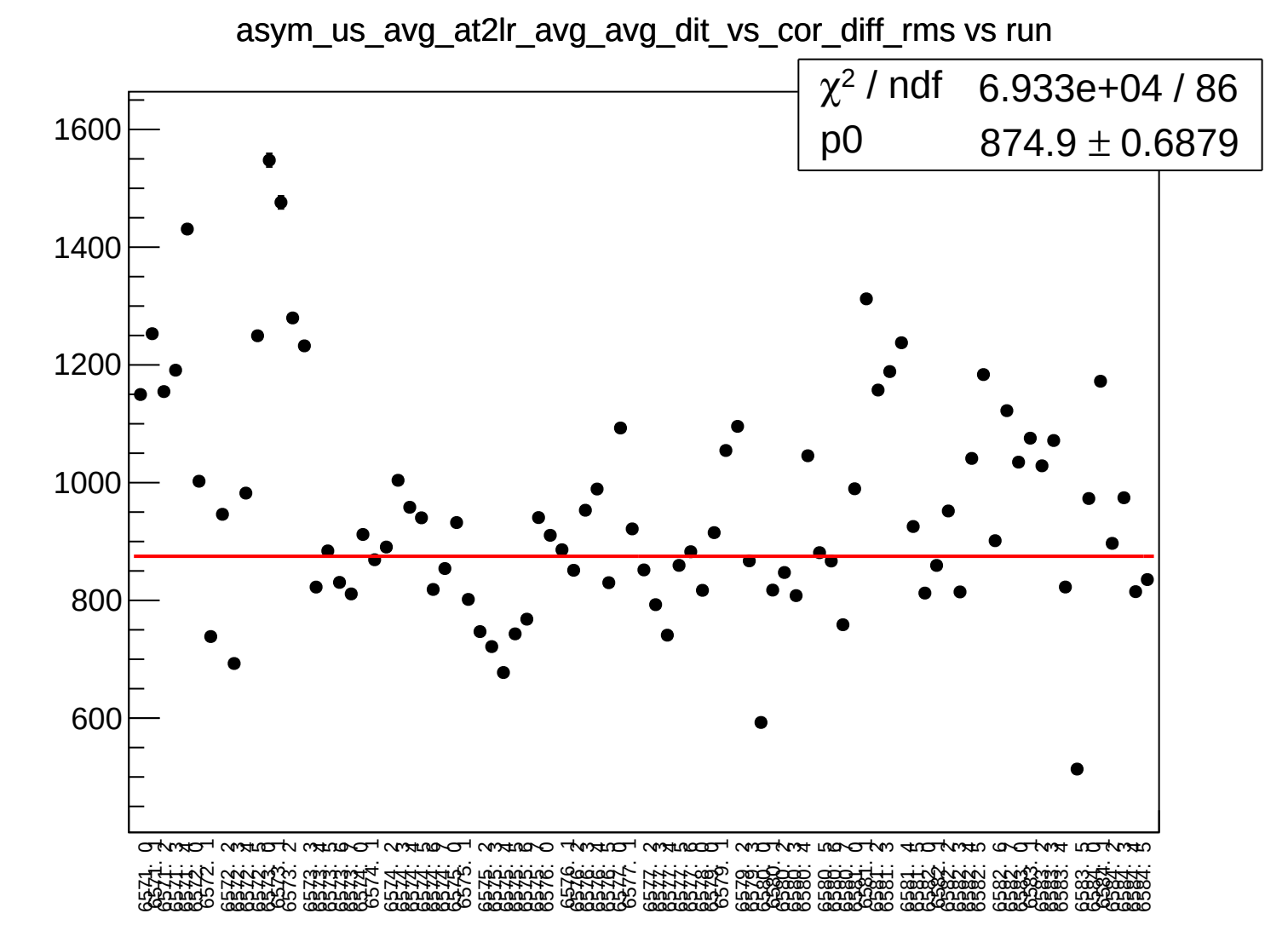

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.159e+04 / 86
p0 9860 ± 7.618
13000
12000
11000
10000
9000

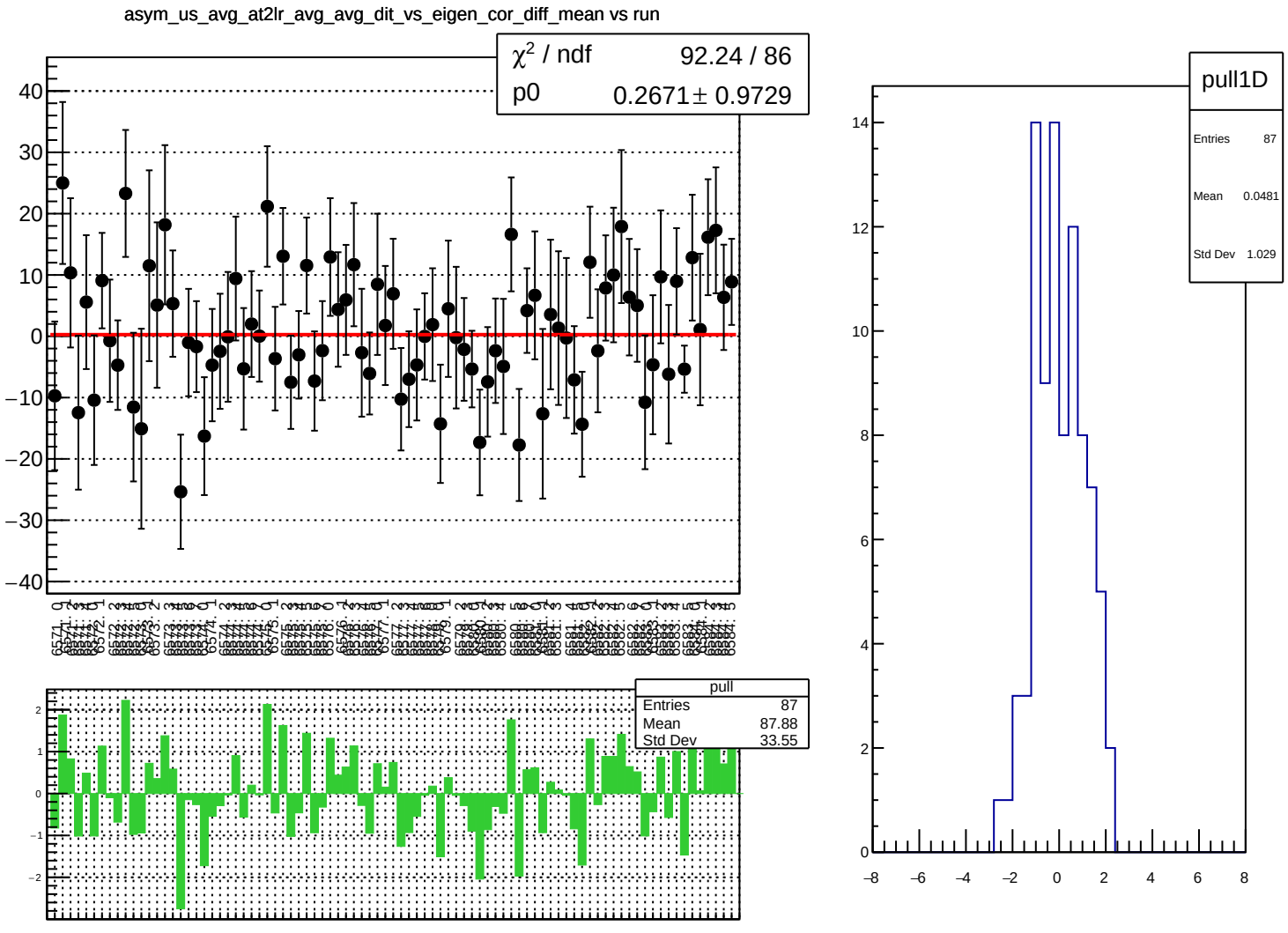

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.69 / 86
p0 −4.72e−14 ± 2.14e−13
pull
Entries 87
Mean 55.73
Std Dev 20.72

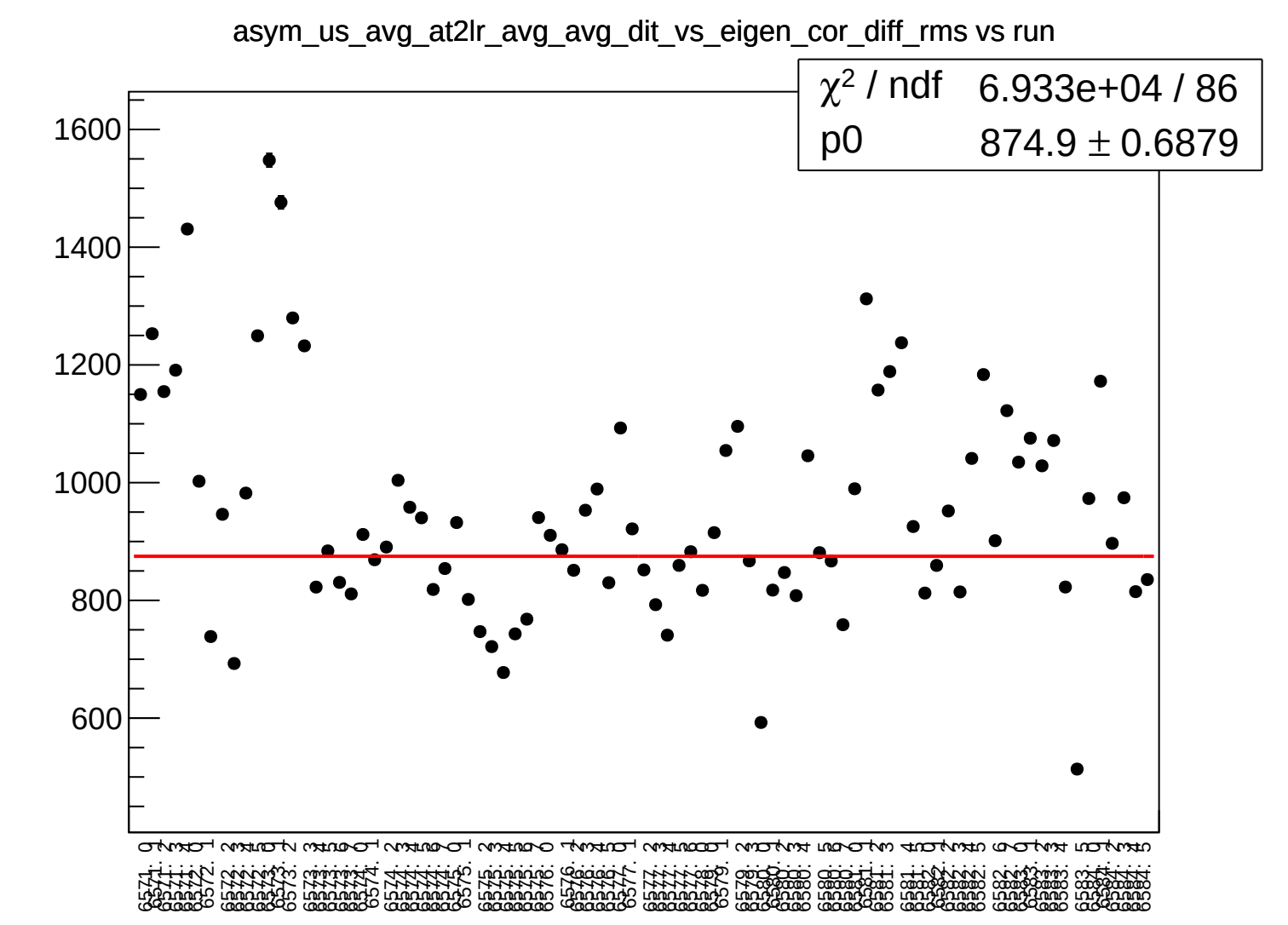

pull1D
Entries 87
Mean −0.06767
Std Dev 1.036

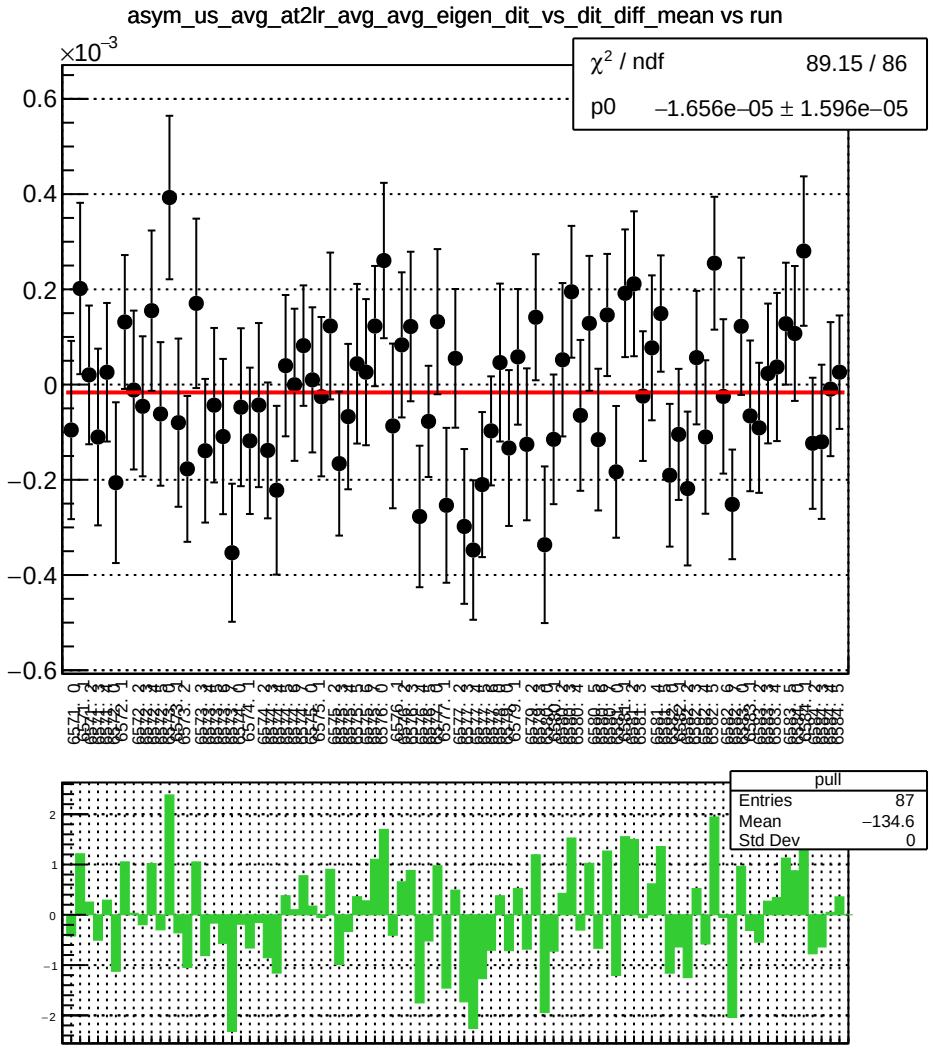

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.082e+06 / 86
p0 1.177e−10 ± 1.513e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

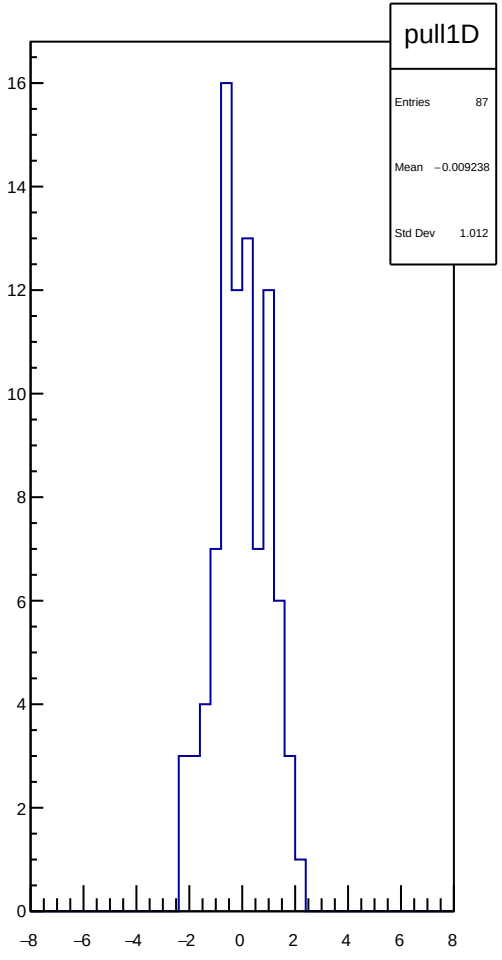

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.24 / 86
p0 0.2671± 0.9729
pull
Entries 87
Mean 87.88
Std Dev 33.55
pull1D
Entries 87
Mean 0.0481
Std Dev 1.029

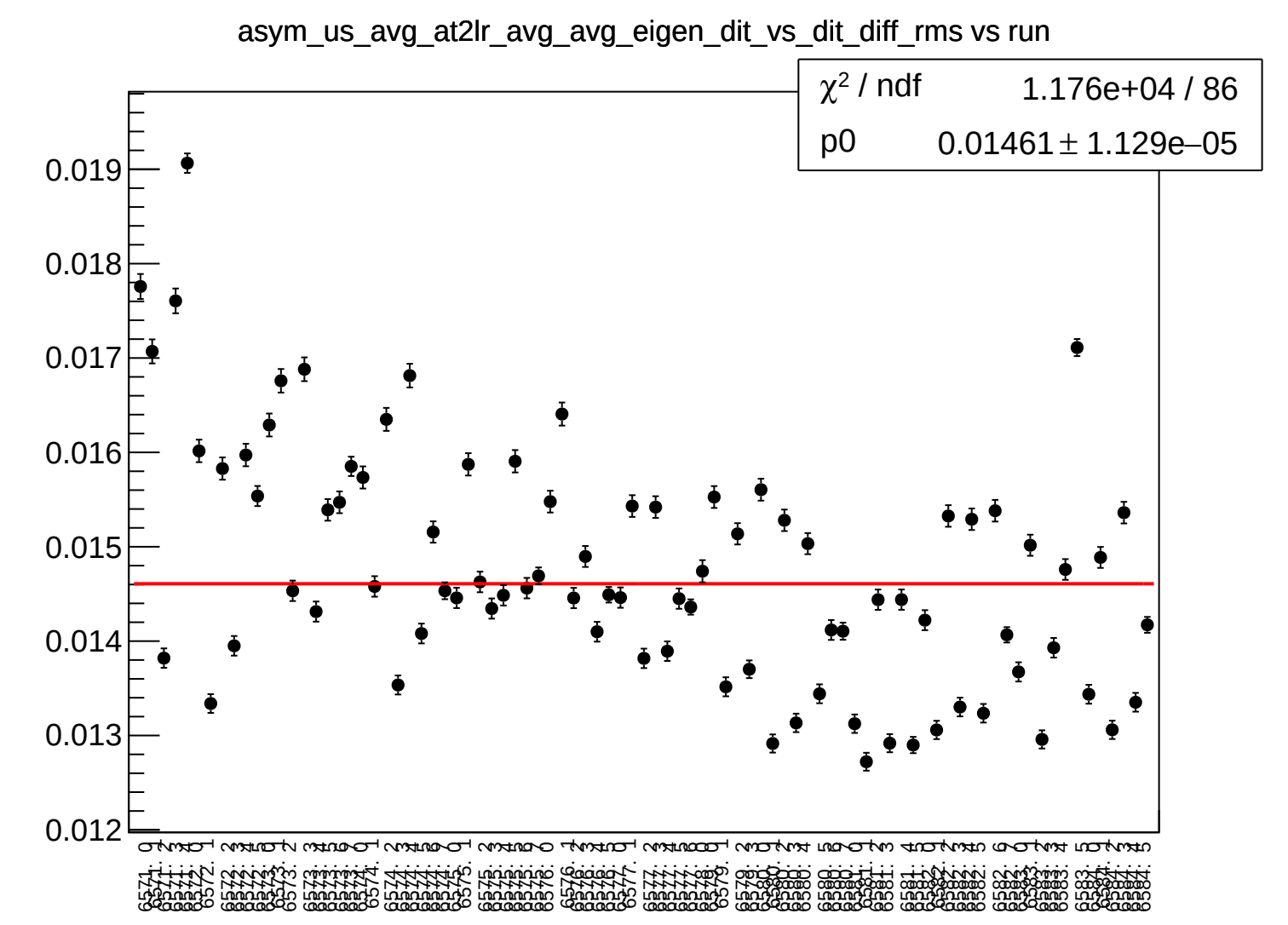

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.933e+04 / 86
p0 874.9 ± 0.6879
1600
1400
1200
1000
800
600

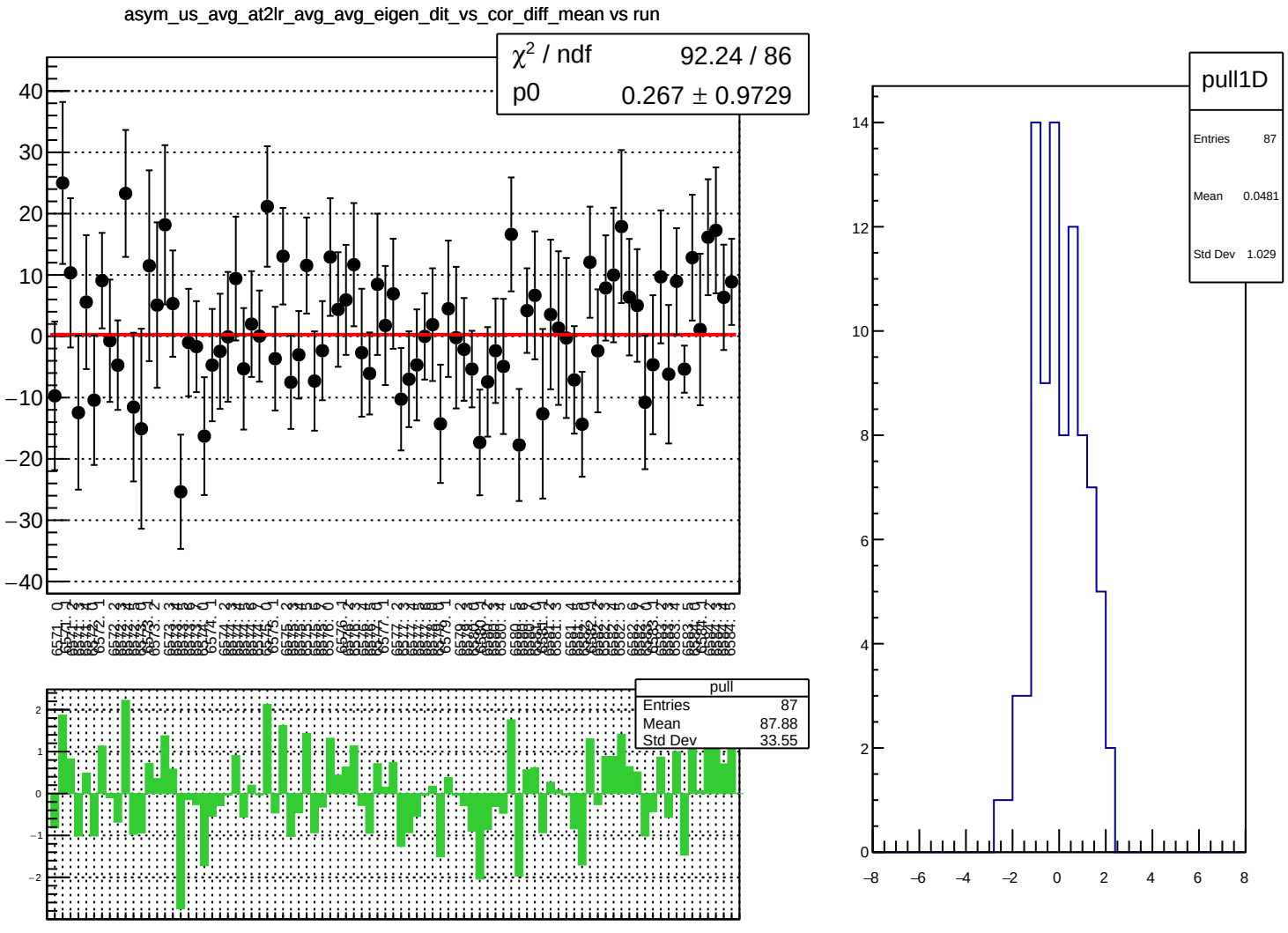

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.24 / 86
p0 0.2671 ± 0.9729
pull
Entries 87
Mean 87.88
Std Dev 33.55
pull1D
Entries 87
Mean 0.0481
Std Dev 1.029

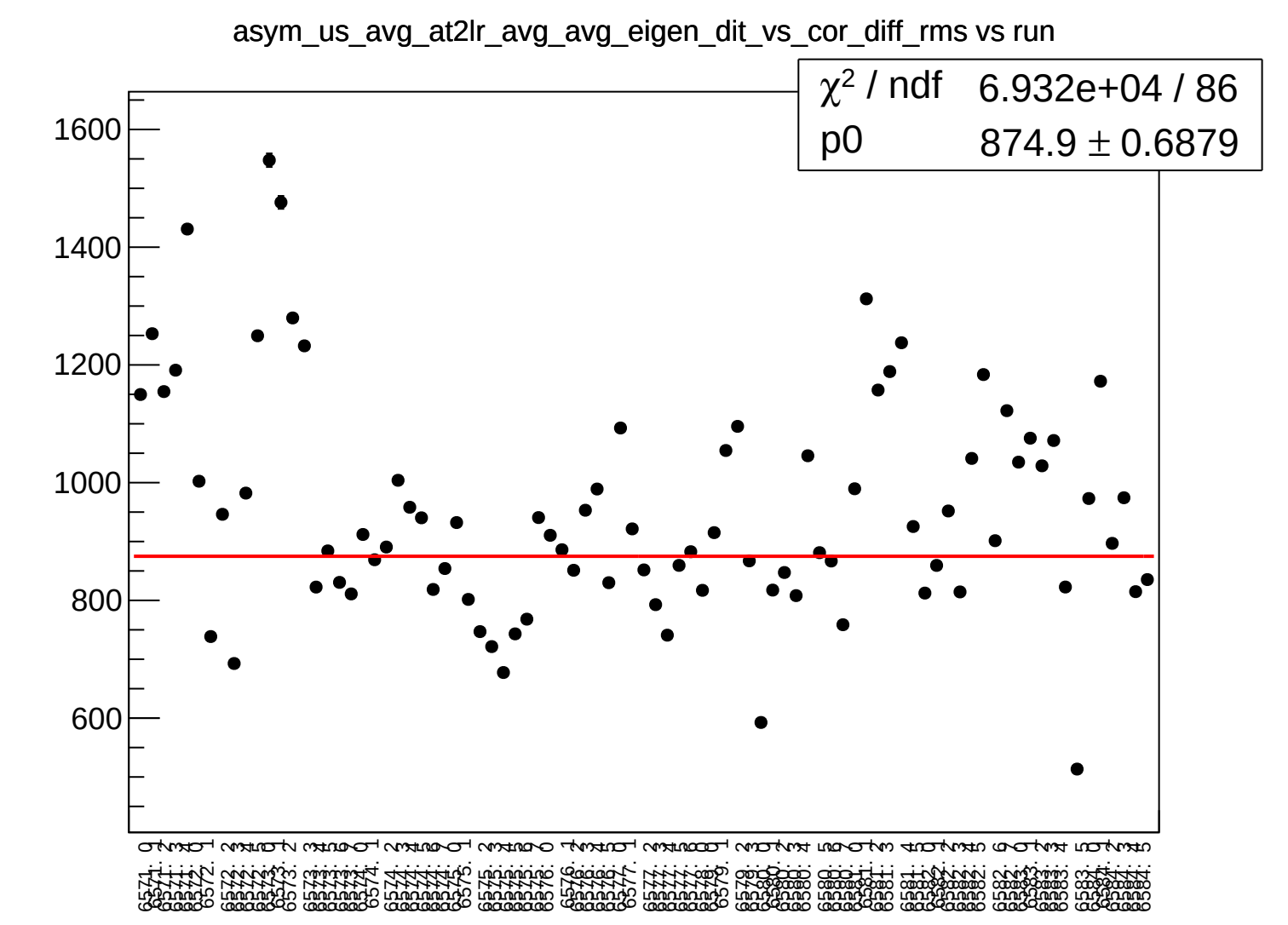

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.933e+04 / 86
p0 874.9 ± 0.6879
1600
1400
1200
1000
800
600

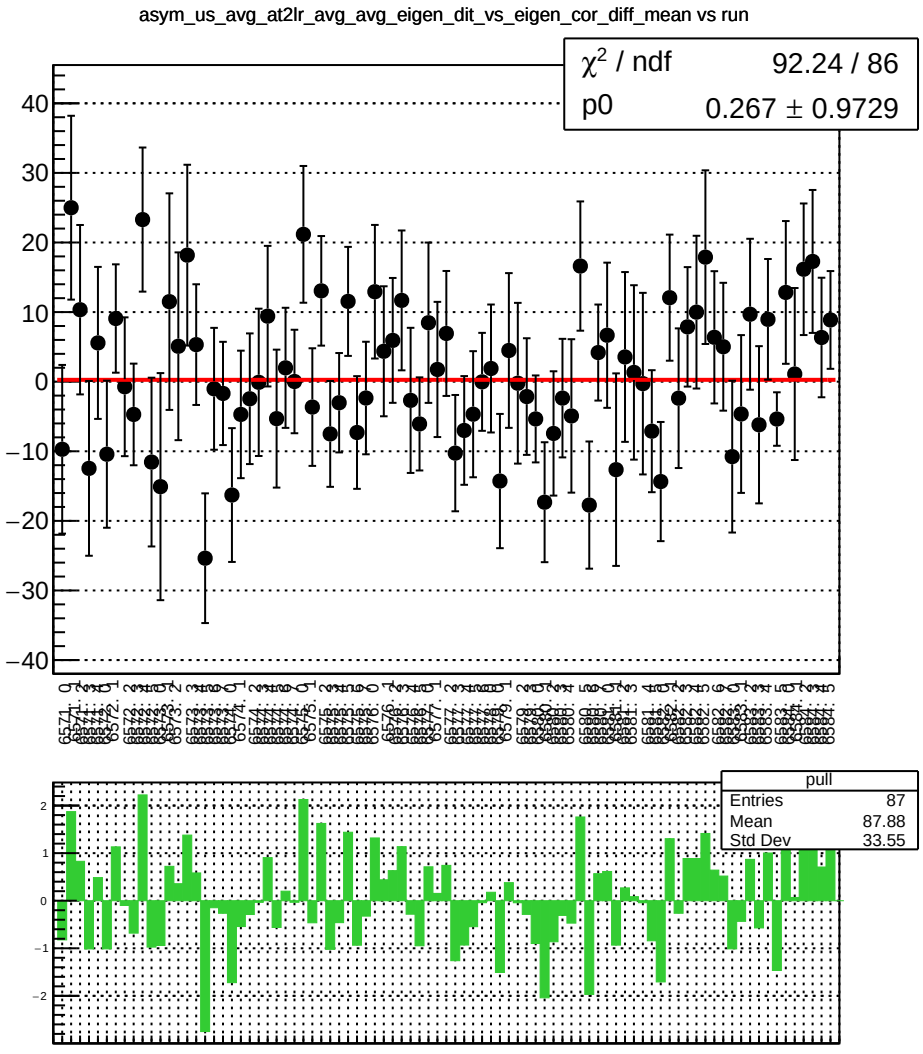

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.15 / 86
p0 −1.656e−05 ± 1.596e−05
pull
Entries 87
Mean −134.6
Std Dev 0

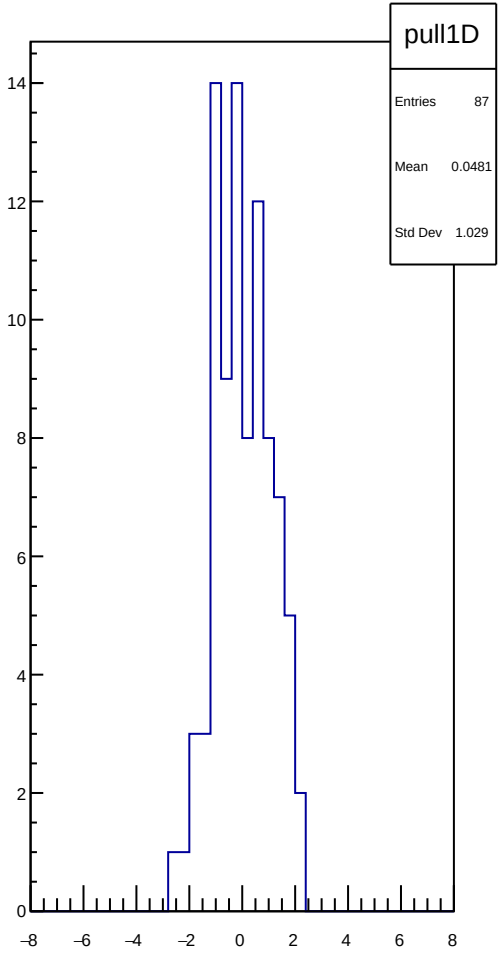

pull1D
Entries 87
Mean −0.009238
Std Dev 1.012

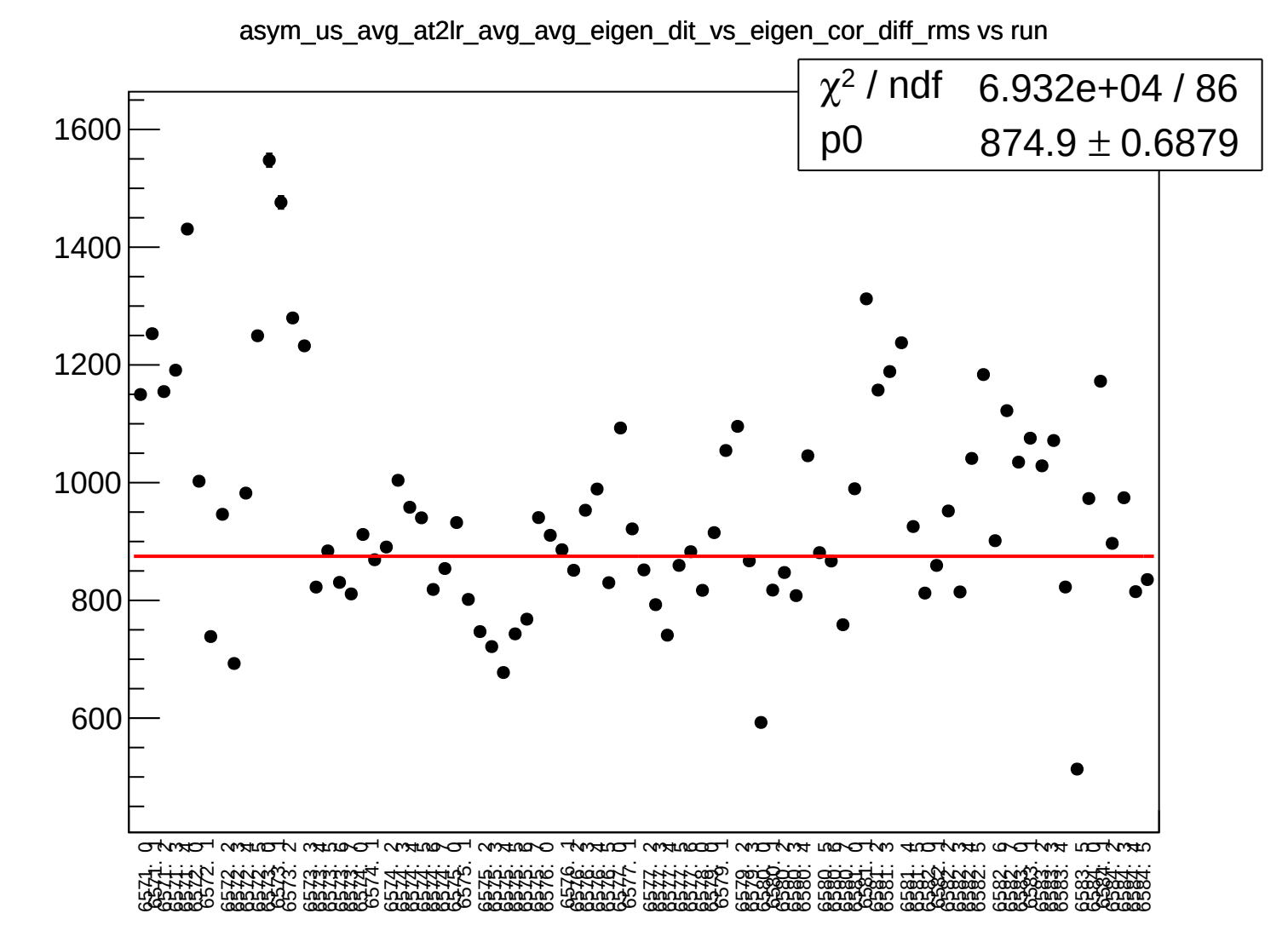

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.176e+04 / 86
p0 0.01461 ± 1.129e–05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

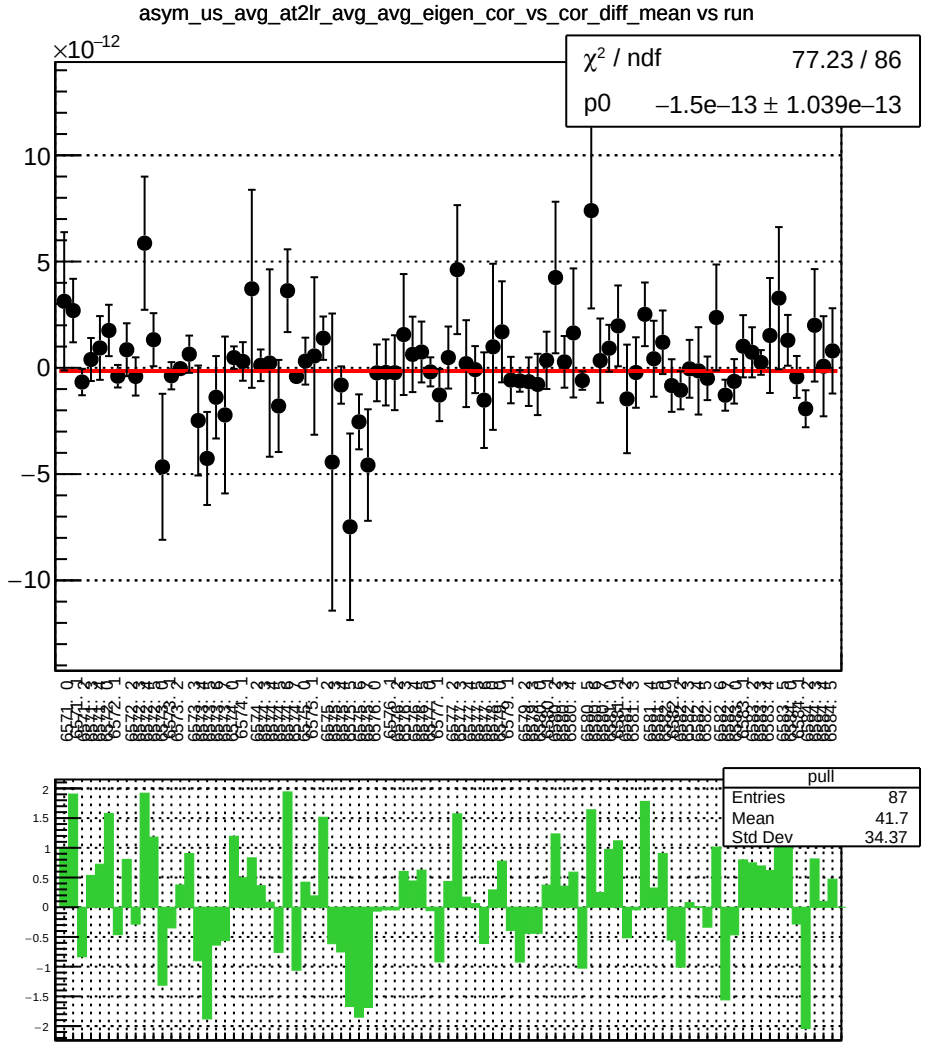

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.24 / 86
p0 0.267 ± 0.9729
pull
Entries 87
Mean 87.88
Std Dev 33.55
pull1D
Entries 87
Mean 0.0481
Std Dev 1.029

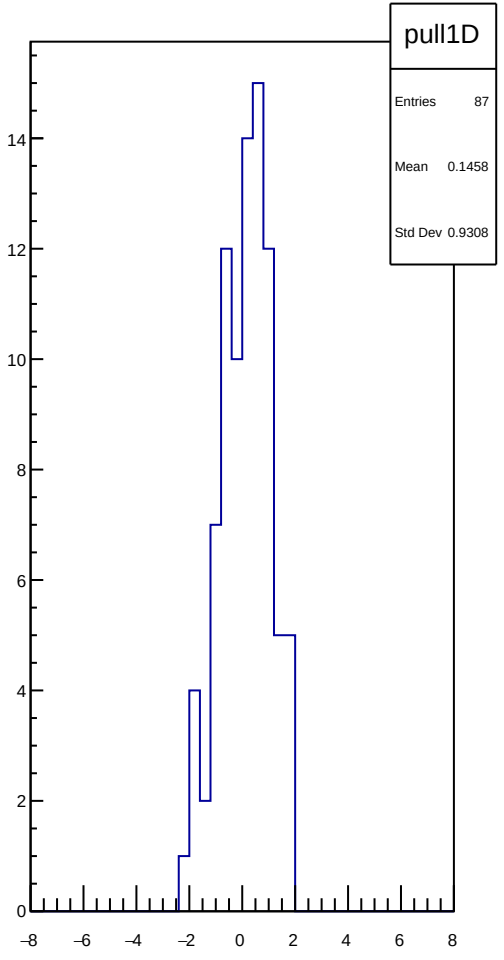

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.932e+04 / 86
p0 874.9 ± 0.6879
1600
1400
1200
1000
800
600

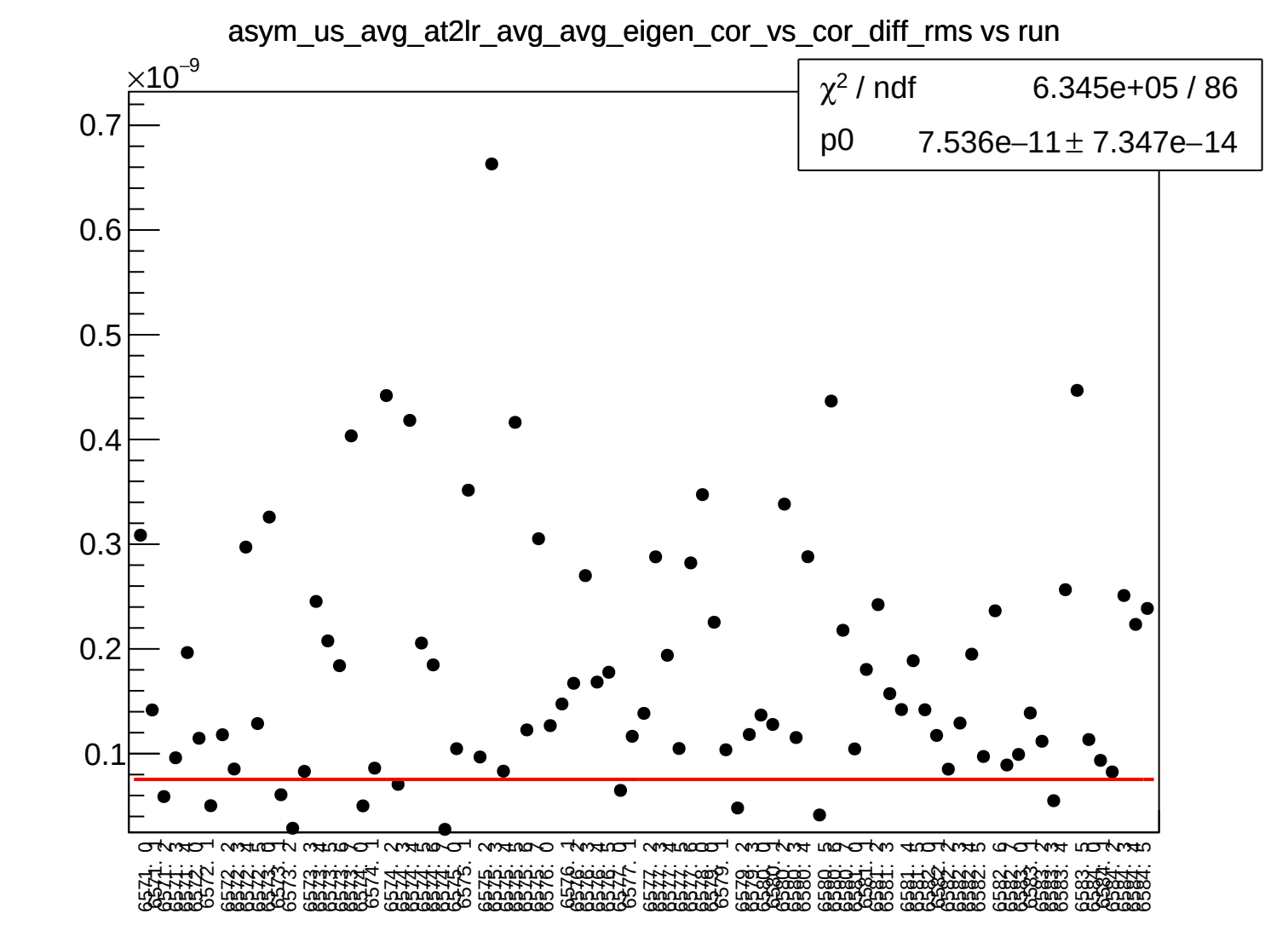

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.24 / 86
p0 0.267 ± 0.9729
pull
Entries 87
Mean 87.88
Std Dev 33.55

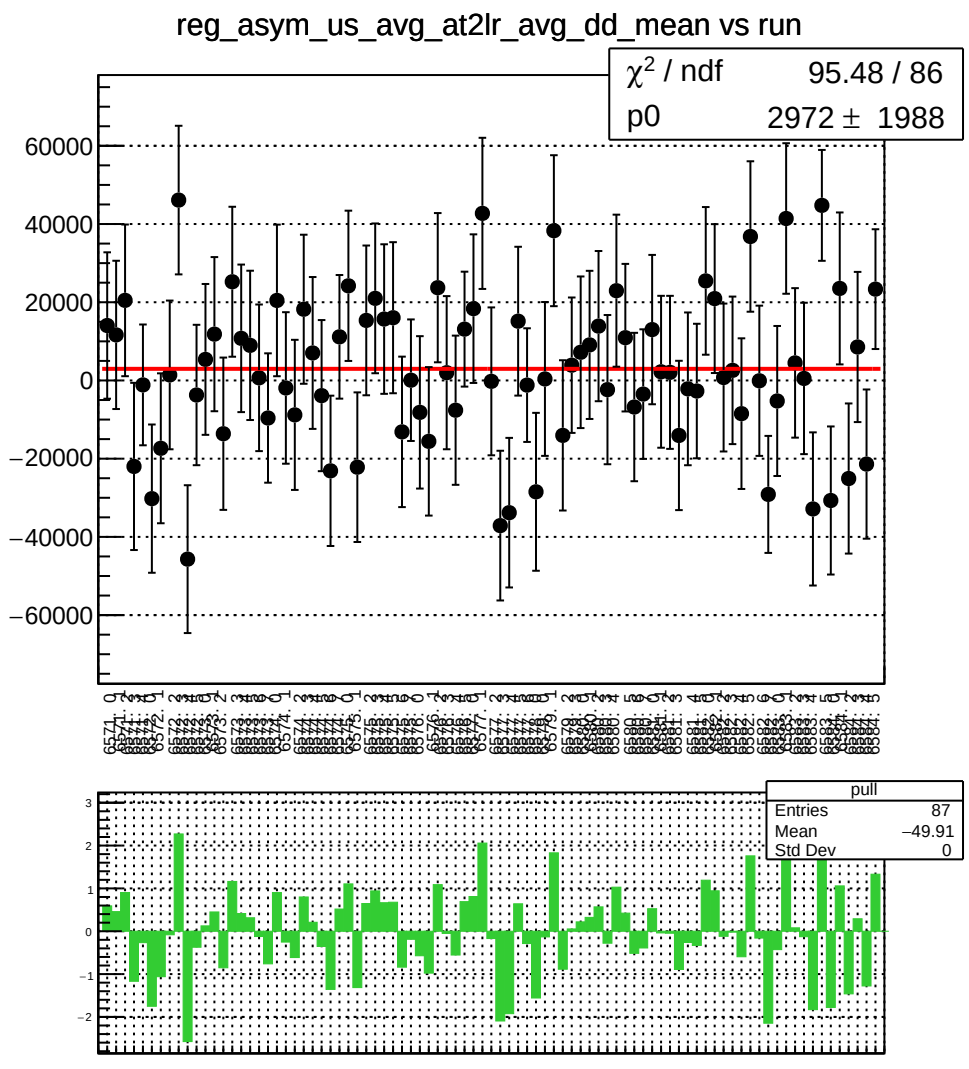

pull1D
Entries 87
Mean 0.0481
Std Dev 1.029

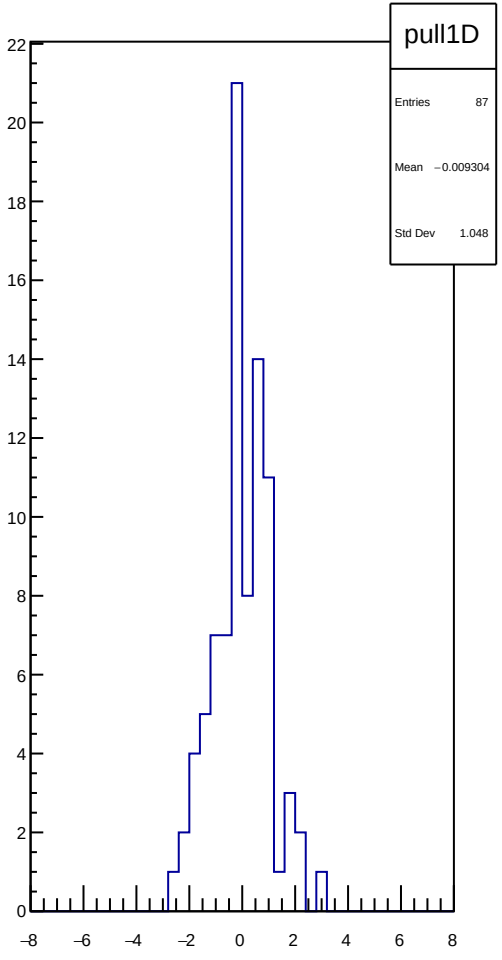

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.932e+04 / 86
p0 874.9 ± 0.6879
1600
1400
1200
1000
800
600

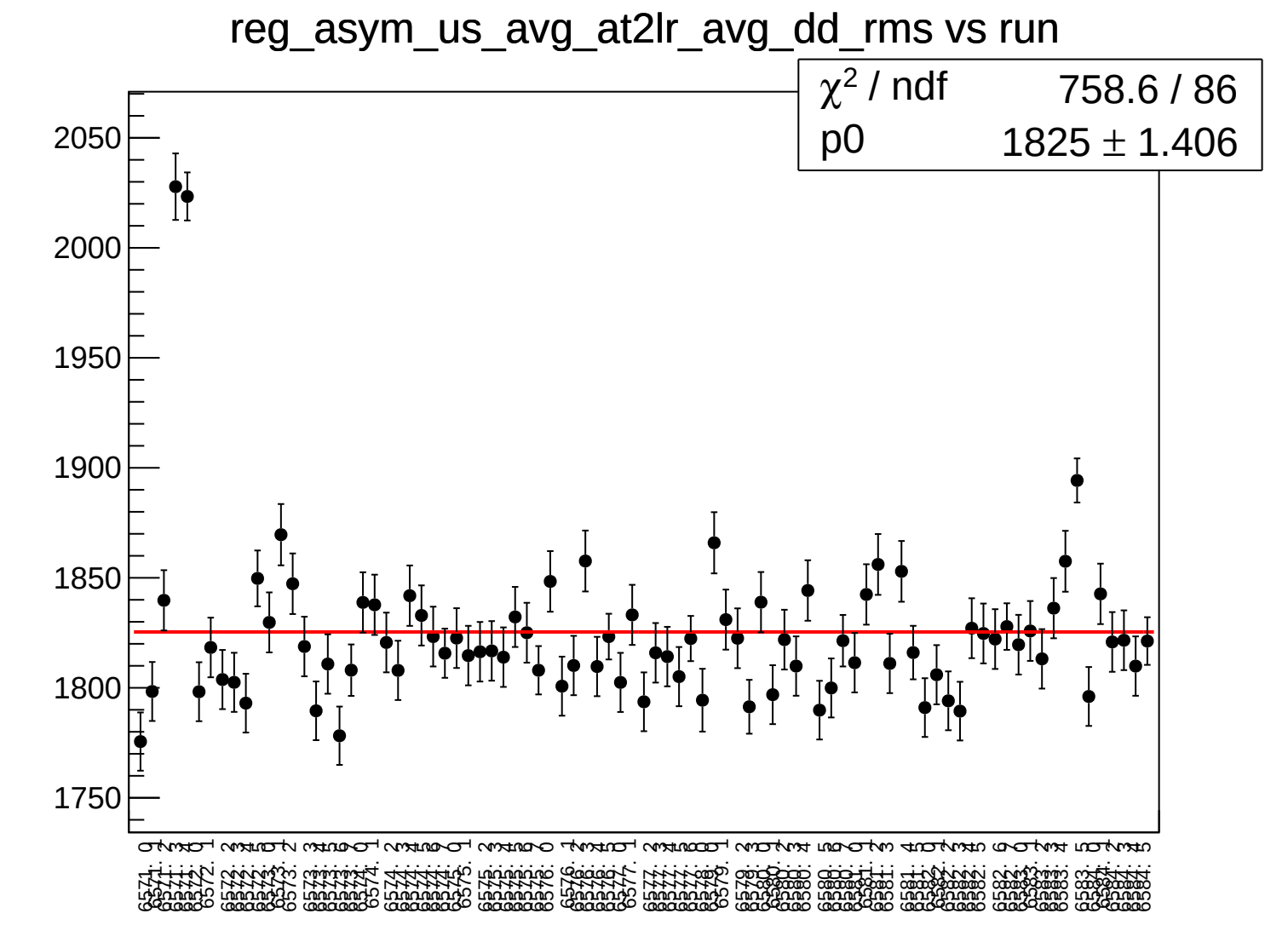

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.23 / 86
p0 −1.5e−13 ± 1.039e−13
10
5
0
−5
−10
pull
Entries 87
Mean 41.7
Std Dev 34.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

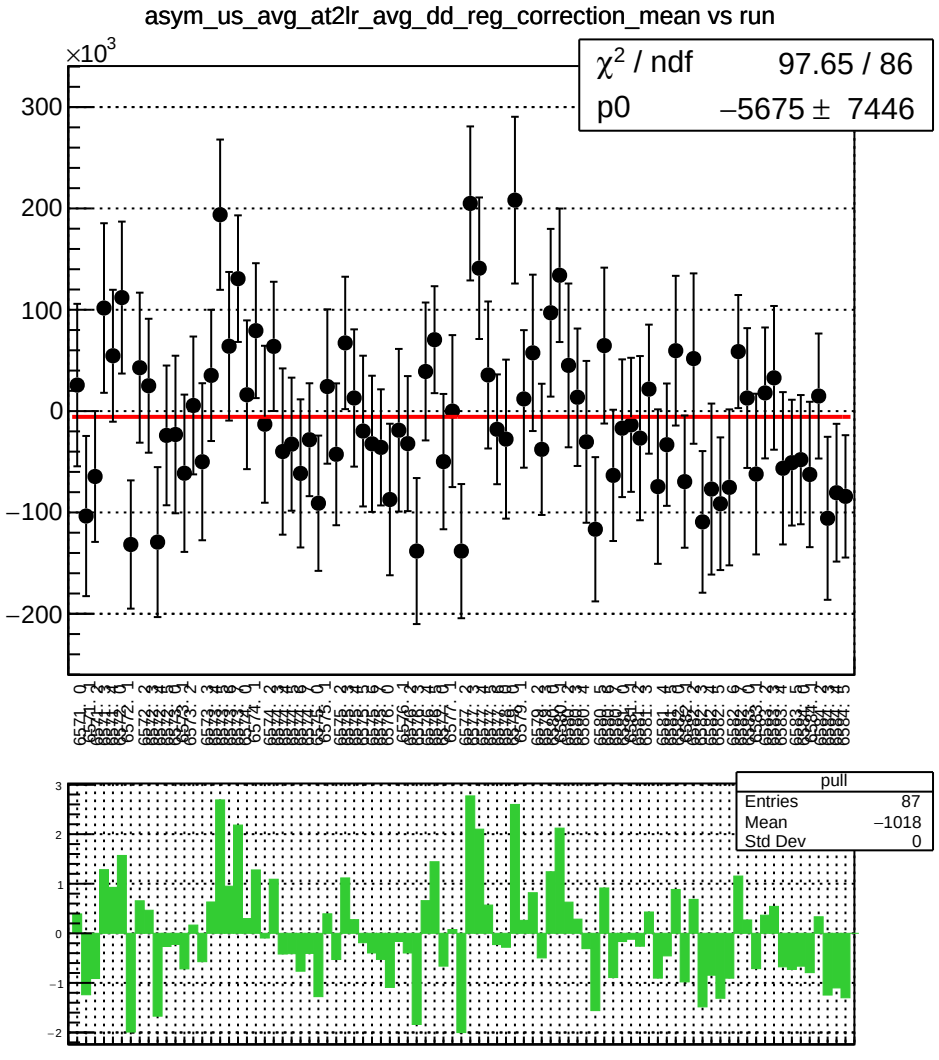

pull1D
Entries 87
Mean 0.1458
Std Dev 0.9308
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

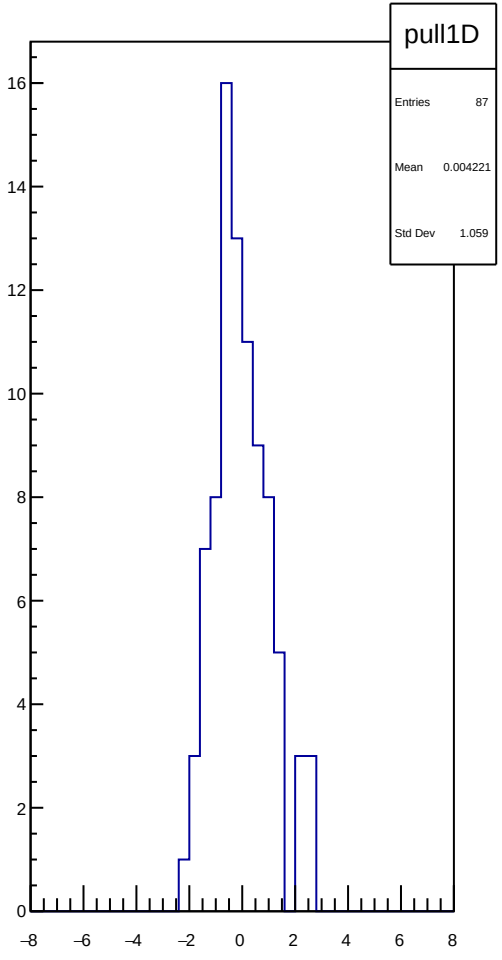

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.345e+05 / 86
p0 7.536e−11 ± 7.347e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

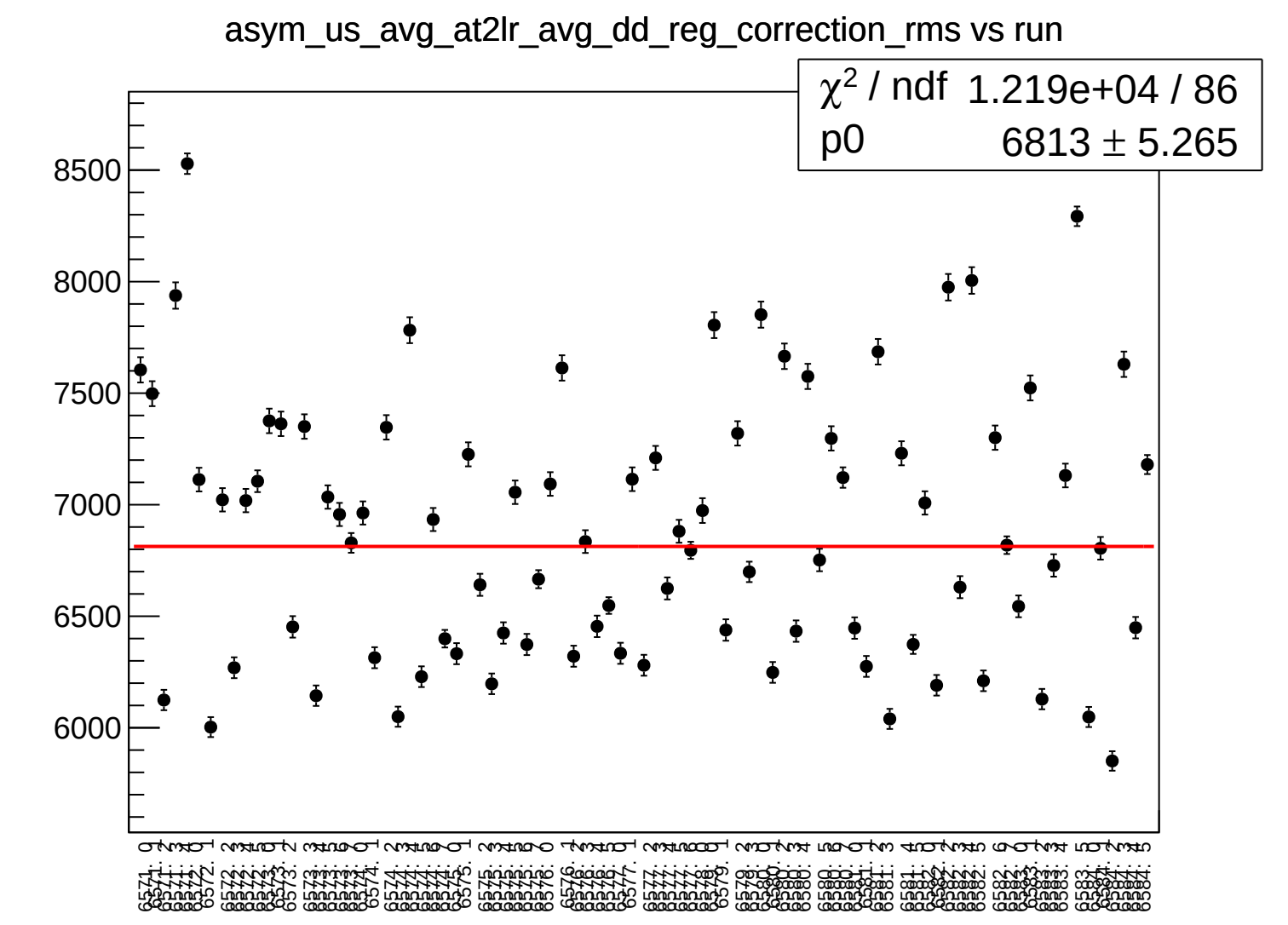

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.48 / 86
p0 2972 ± 1988
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −49.91
Std Dev 0
3
2
1
0
−1
−2

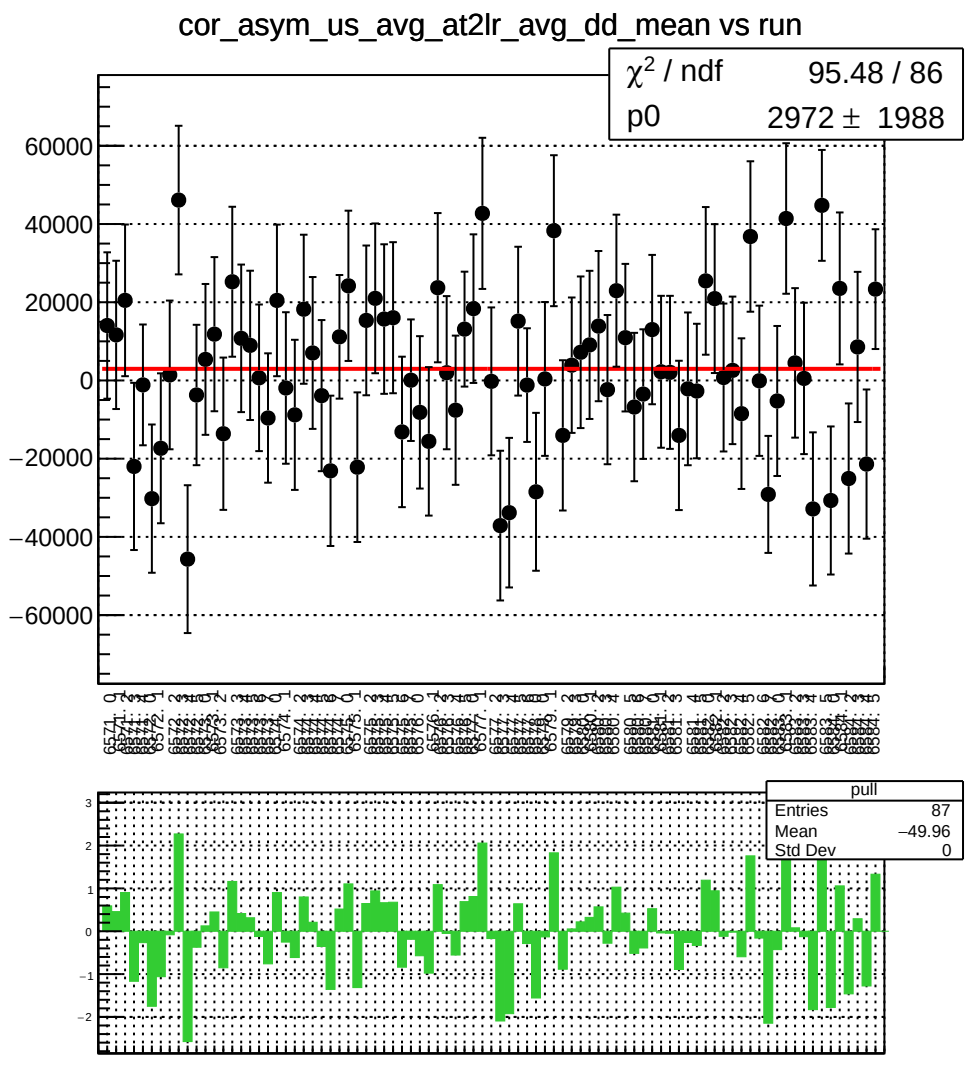

pull1D
Entries 87
Mean −0.009304
Std Dev 1.048
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

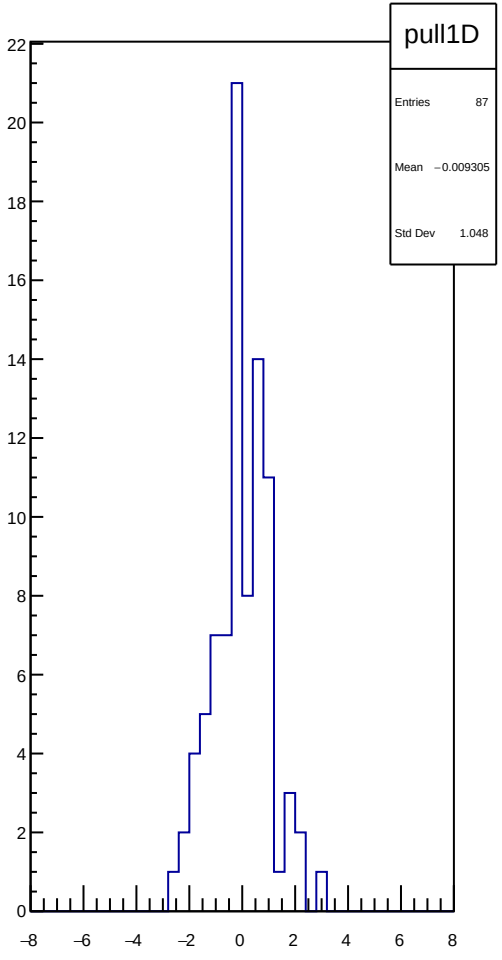

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 758.6 / 86
p0 1825 ± 1.406
2050
2000
1950
1900
1850
1800
1750

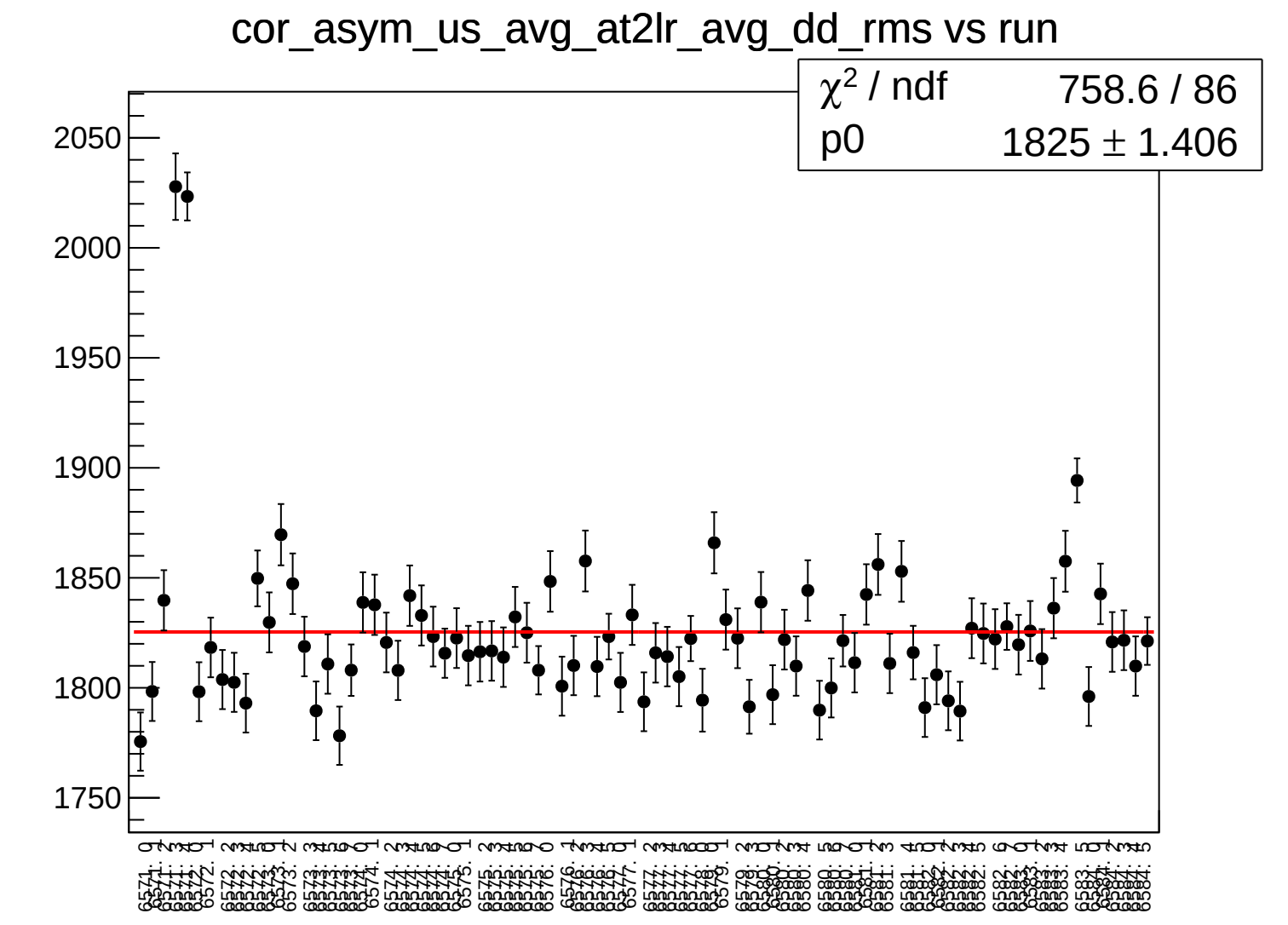

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.65 / 86
p0 −5675 ± 7446
300
200
100
0
−100
−200
pull
Entries 87
Mean −1018
Std Dev 0
3
2
1
0
−1
−2

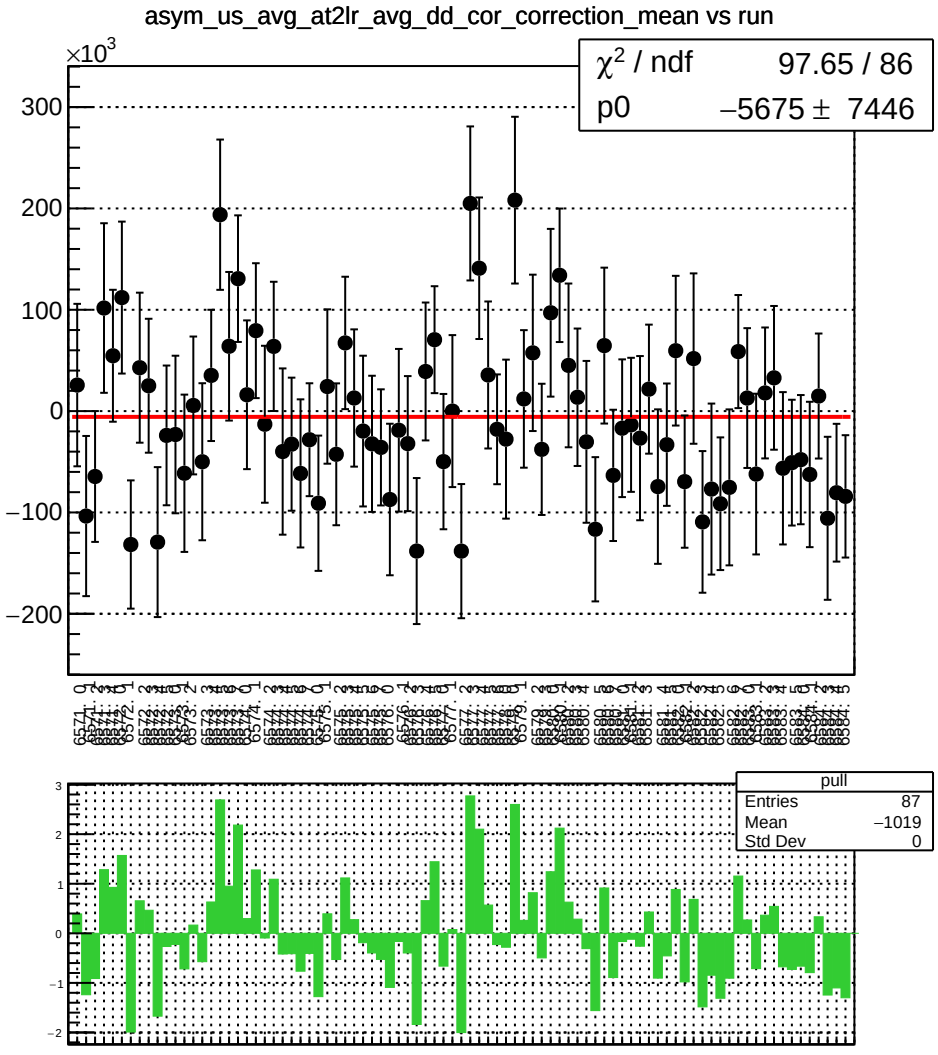

pull1D
Entries 87
Mean 0.004221
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

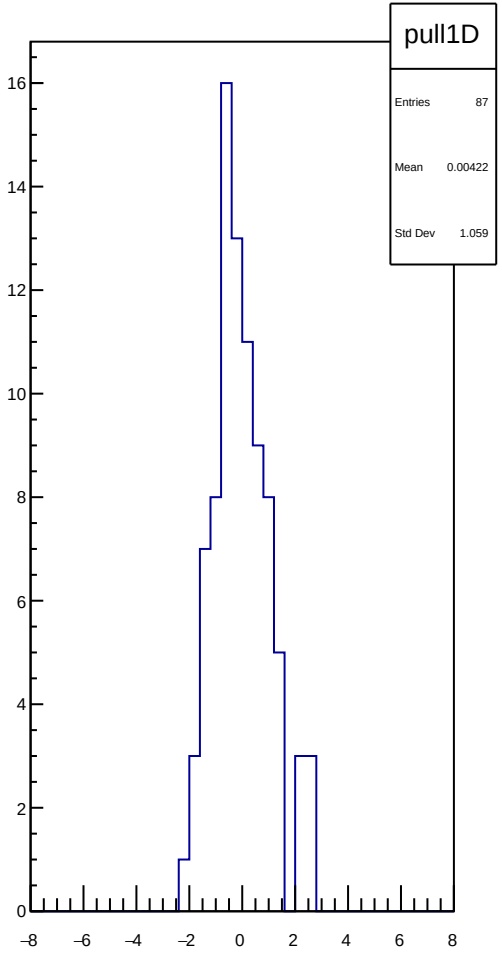

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.219e+04 / 86
p0 6813 ± 5.265
8500
8000
7500
7000
6500
6000

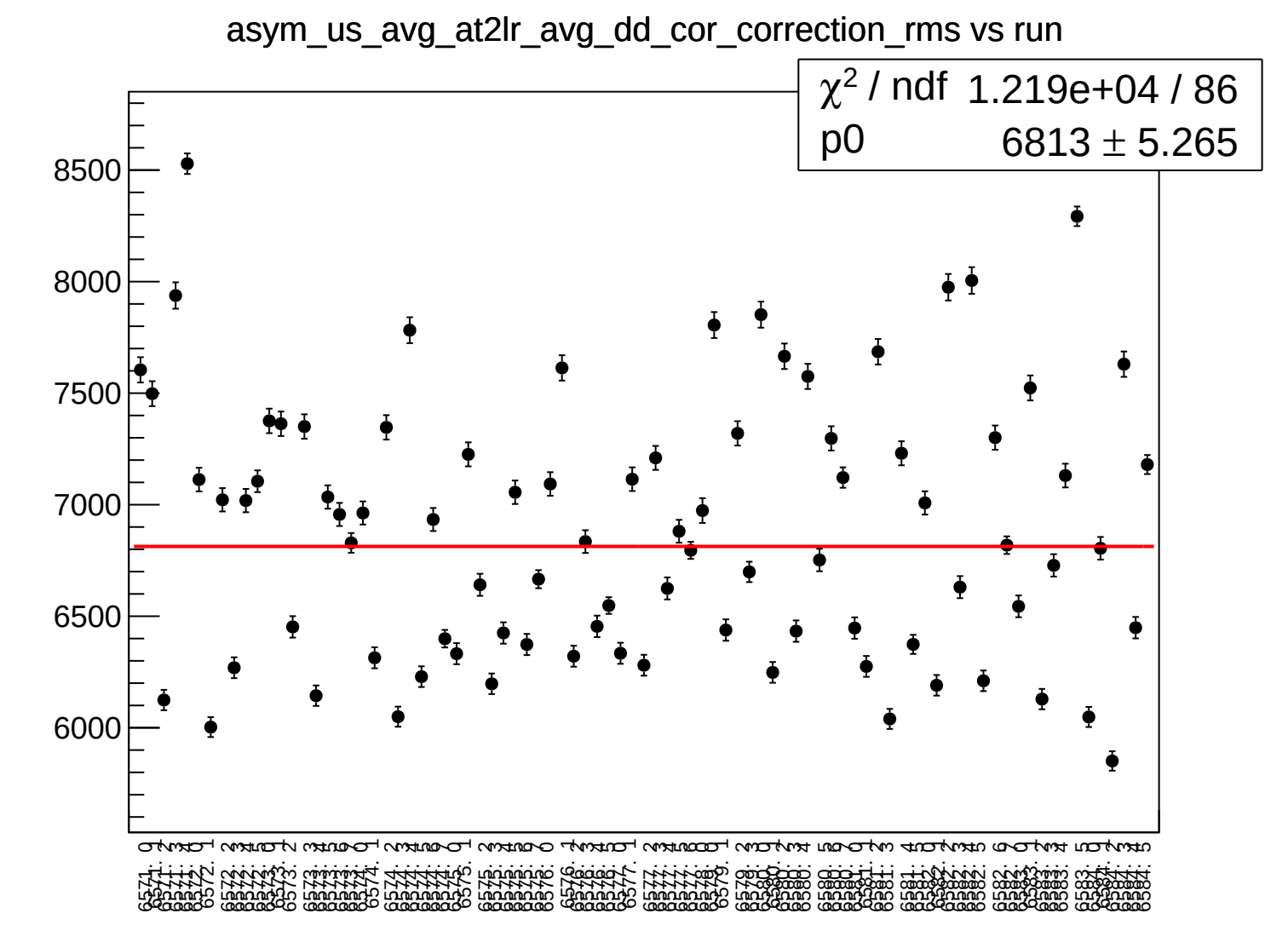

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.48 / 86
p0 2972 ± 1988
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −49.96
Std Dev 0
3
2
1
0
−1
−2

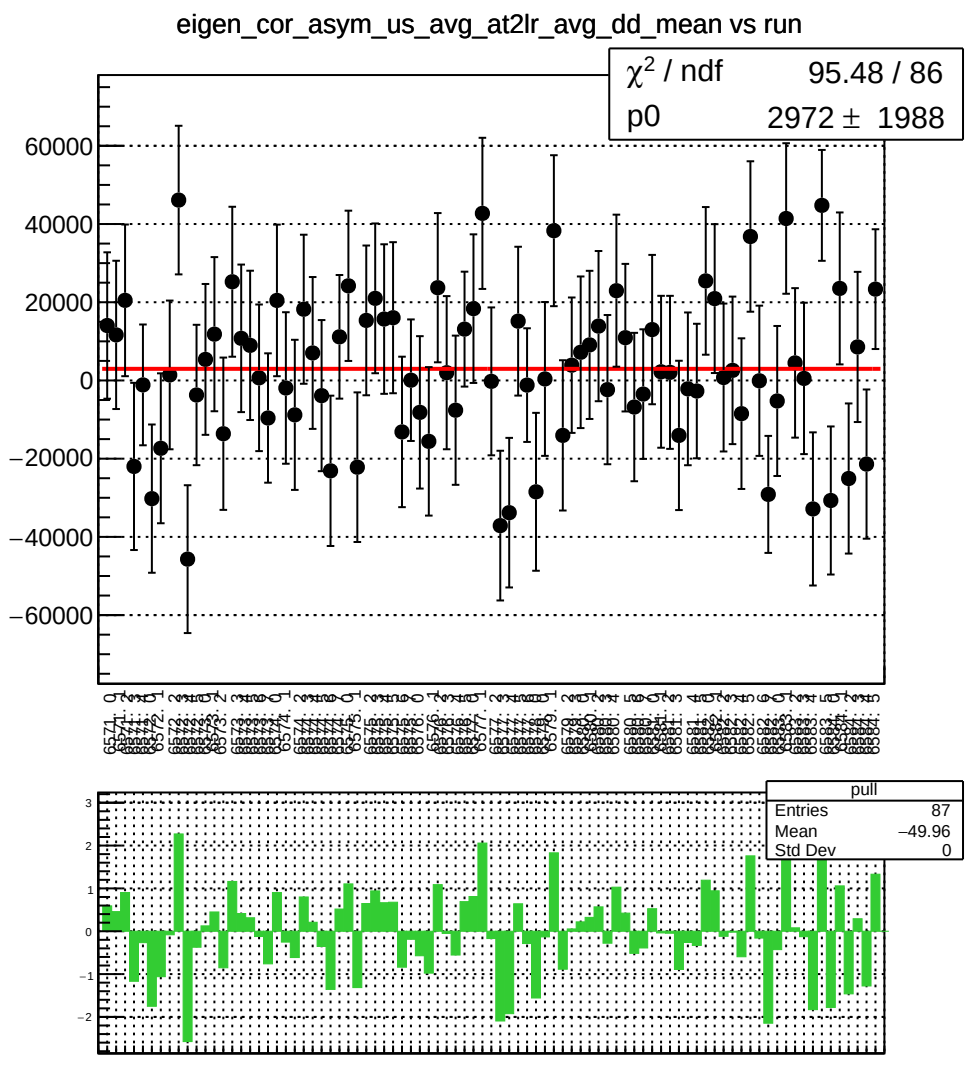

pull1D
Entries 87
Mean −0.009305
Std Dev 1.048
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

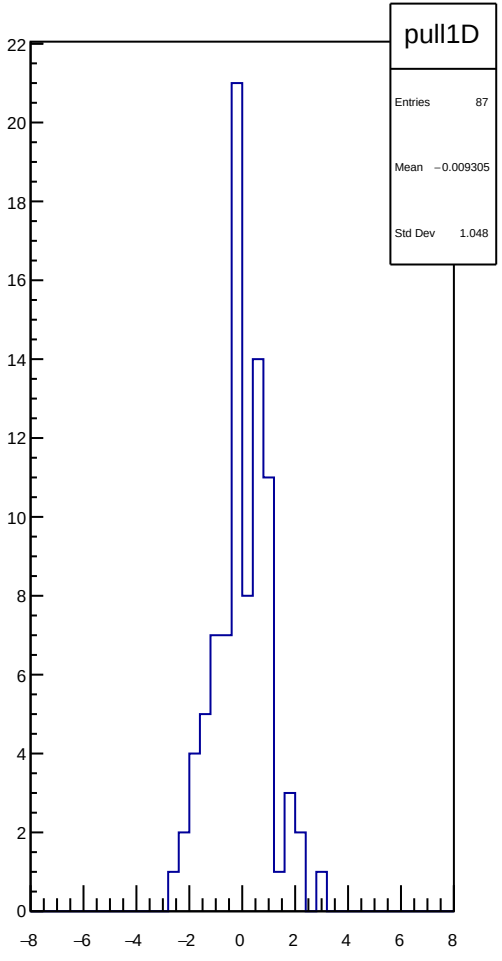

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 758.6 / 86
p0 1825 ± 1.406
2050
2000
1950
1900
1850
1800
1750

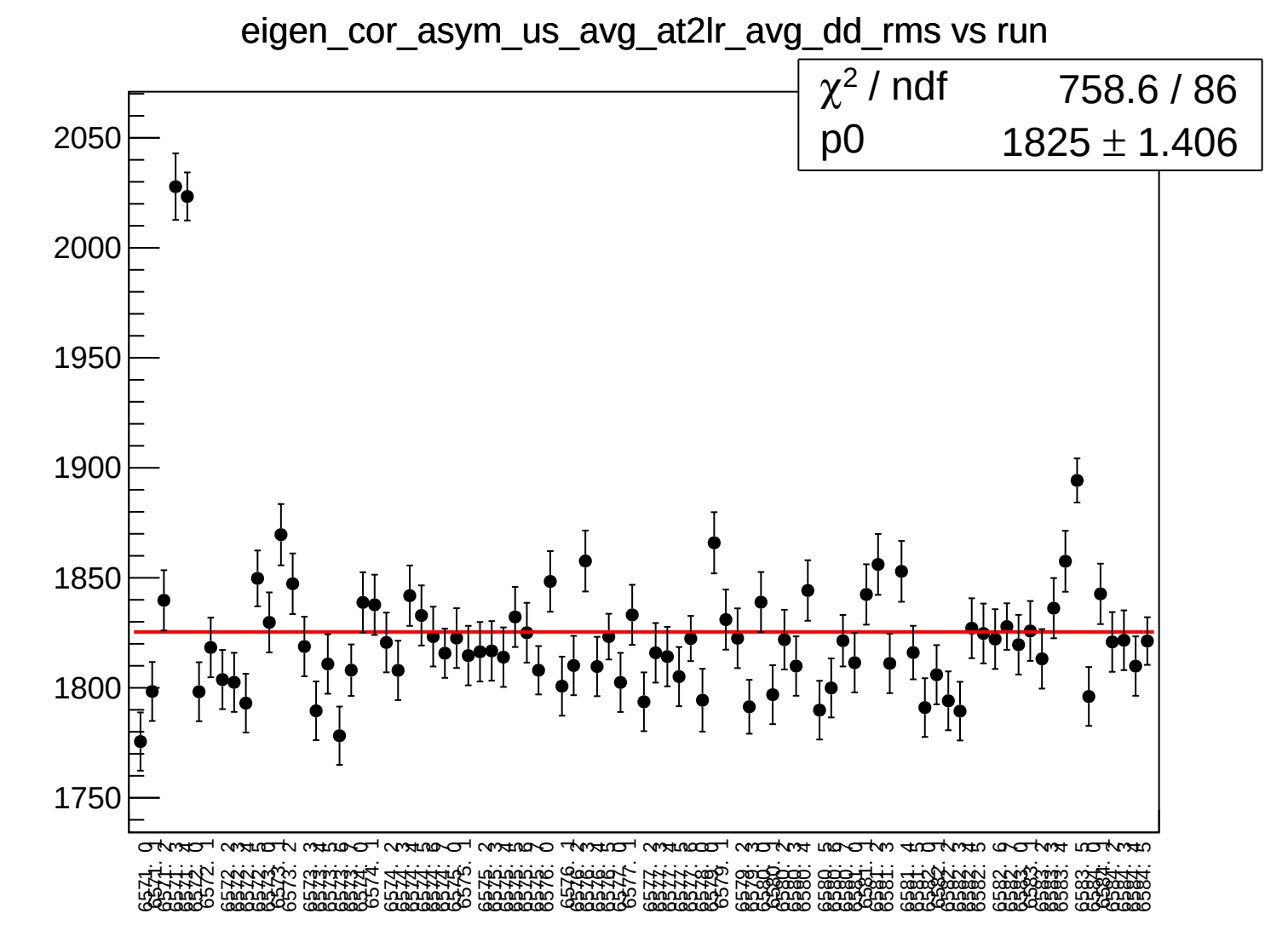

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.65 / 86
p0 −5675 ± 7446
300
200
100
0
−100
−200
pull
Entries 87
Mean −1019
Std Dev 0
3
2
1
0
−1
−2

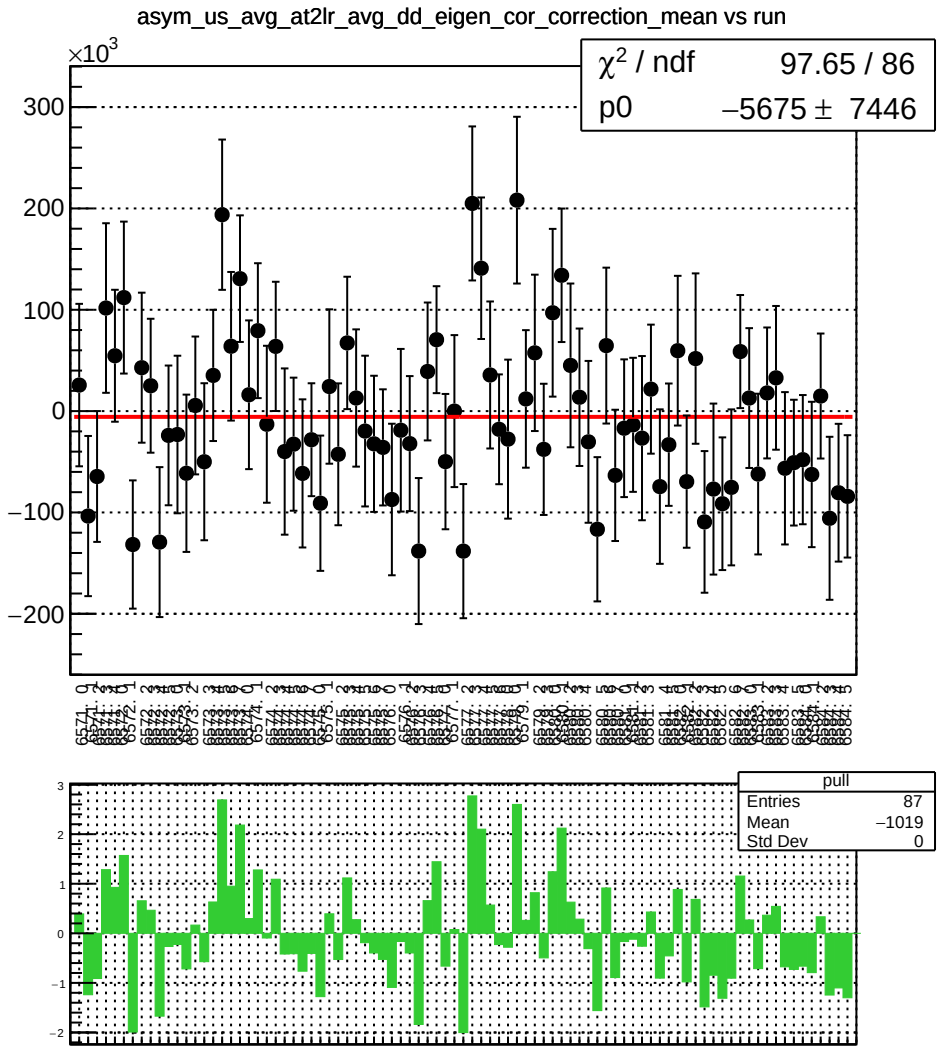

pull1D
Entries 87
Mean 0.00422
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

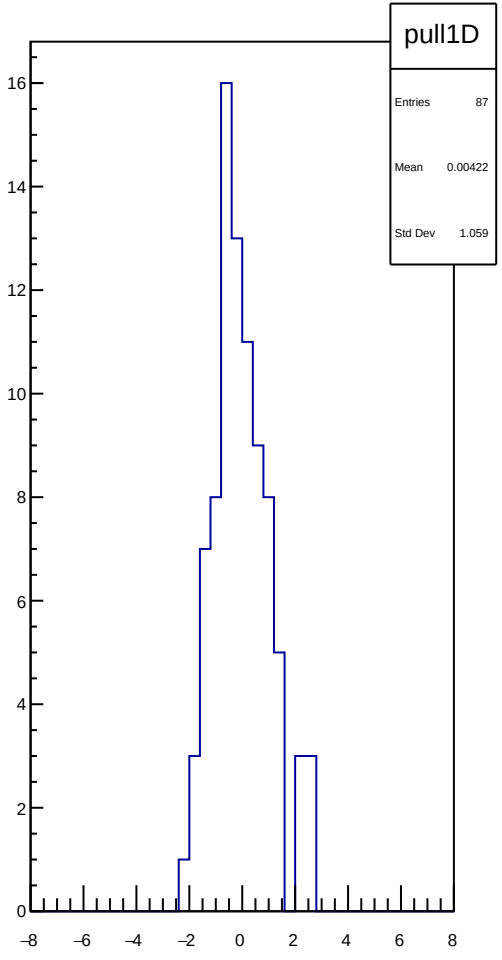

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.219e+04 / 86
p0 6813 ± 5.265
8500
8000
7500
7000
6500
6000

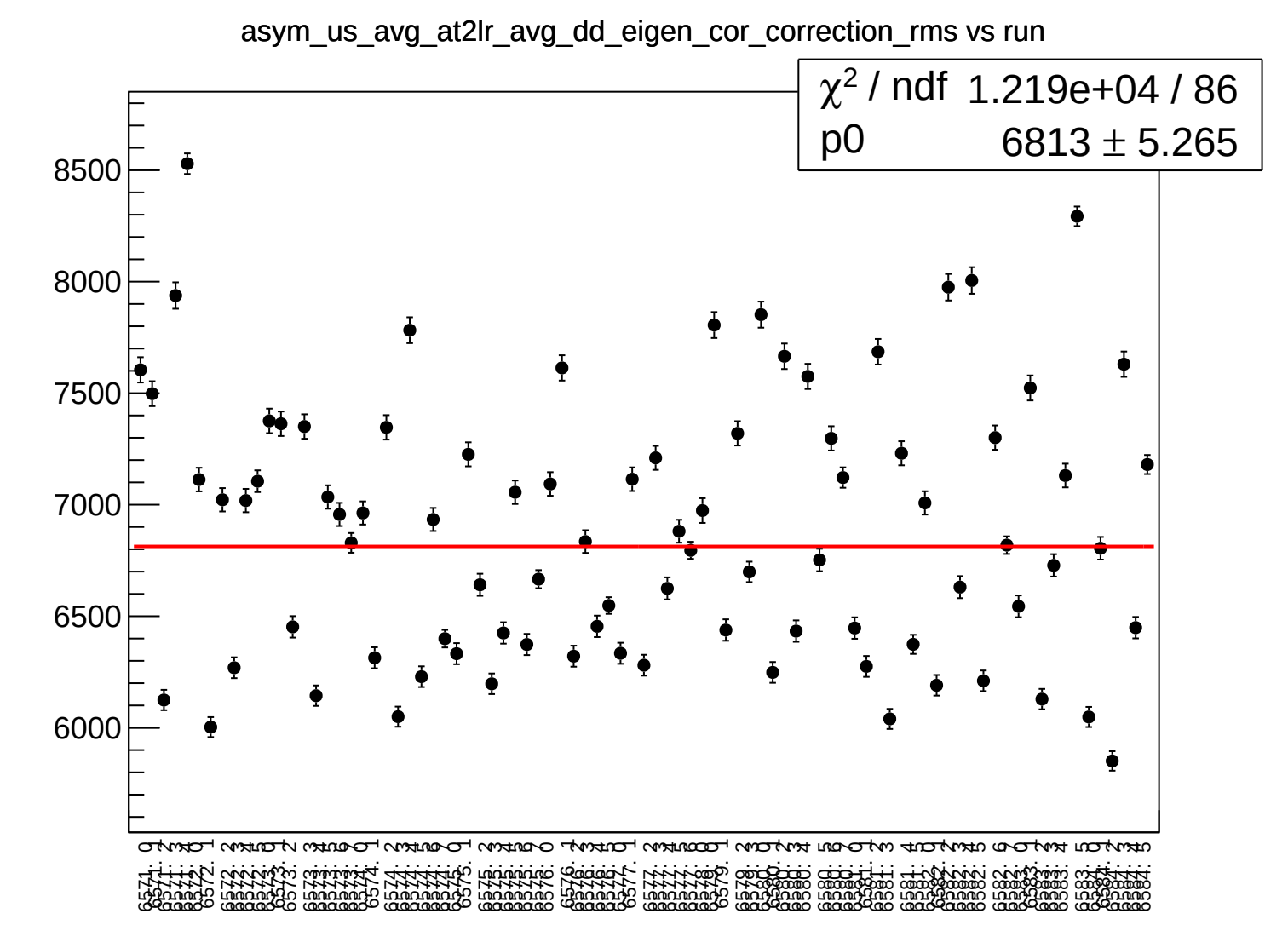

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.48 / 86
p0 2972 ± 1988
pull
Entries 87
Mean −49.96
Std Dev 0

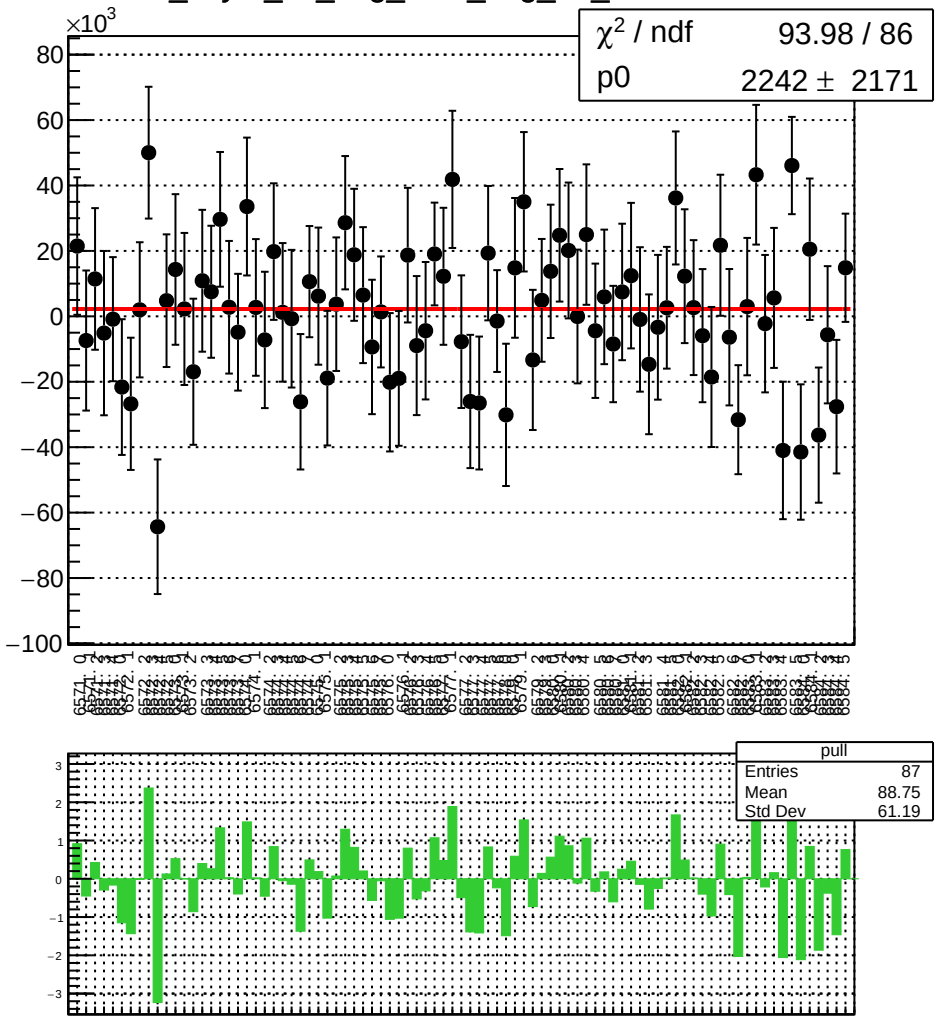

pull1D
Entries 87
Mean −0.009305
Std Dev 1.048

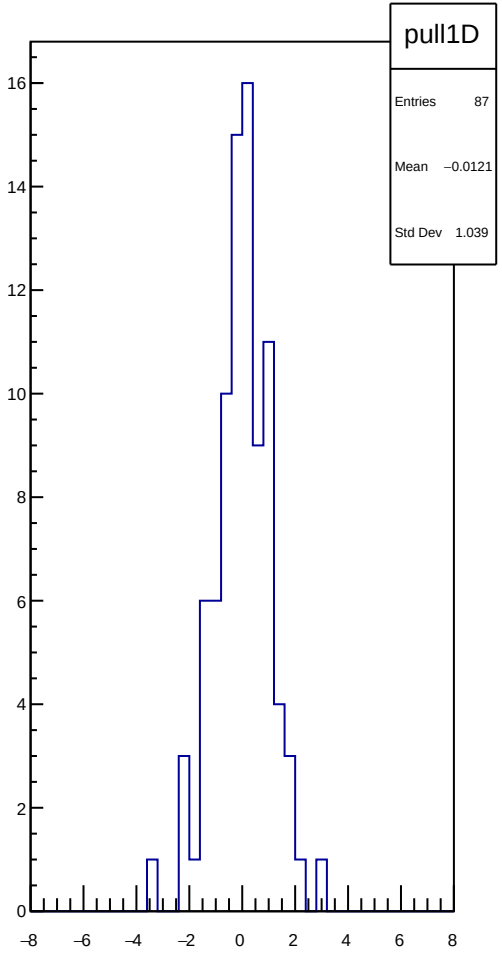

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 758.6 / 86
p0 1825 ± 1.406
2050
2000
1950
1900
1850
1800
1750

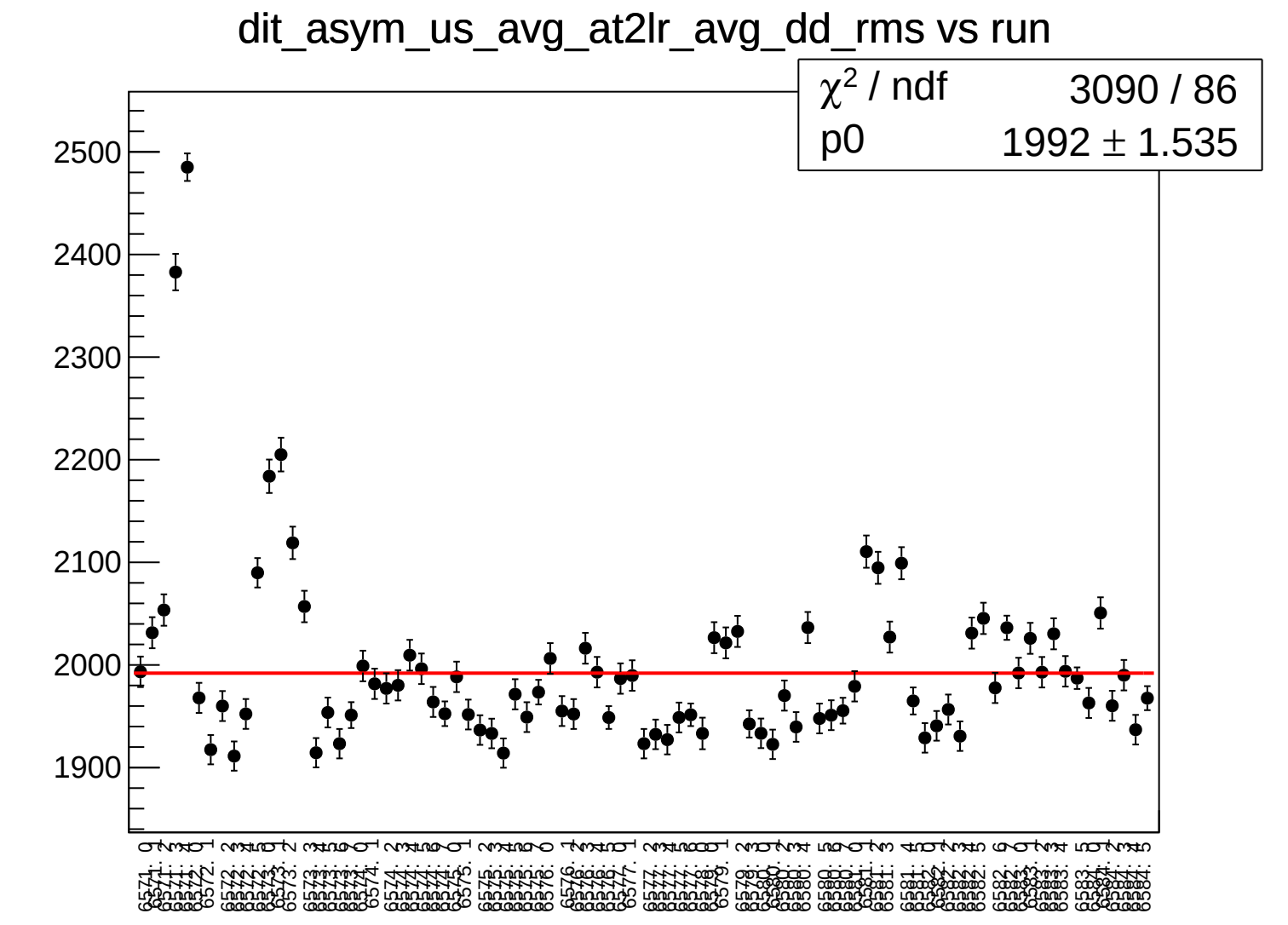

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.65 / 86
p0 −5675 ± 7446
300
200
100
0
−100
−200
pull
Entries 87
Mean −1019
Std Dev 0
3
2
1
0
−1
−2

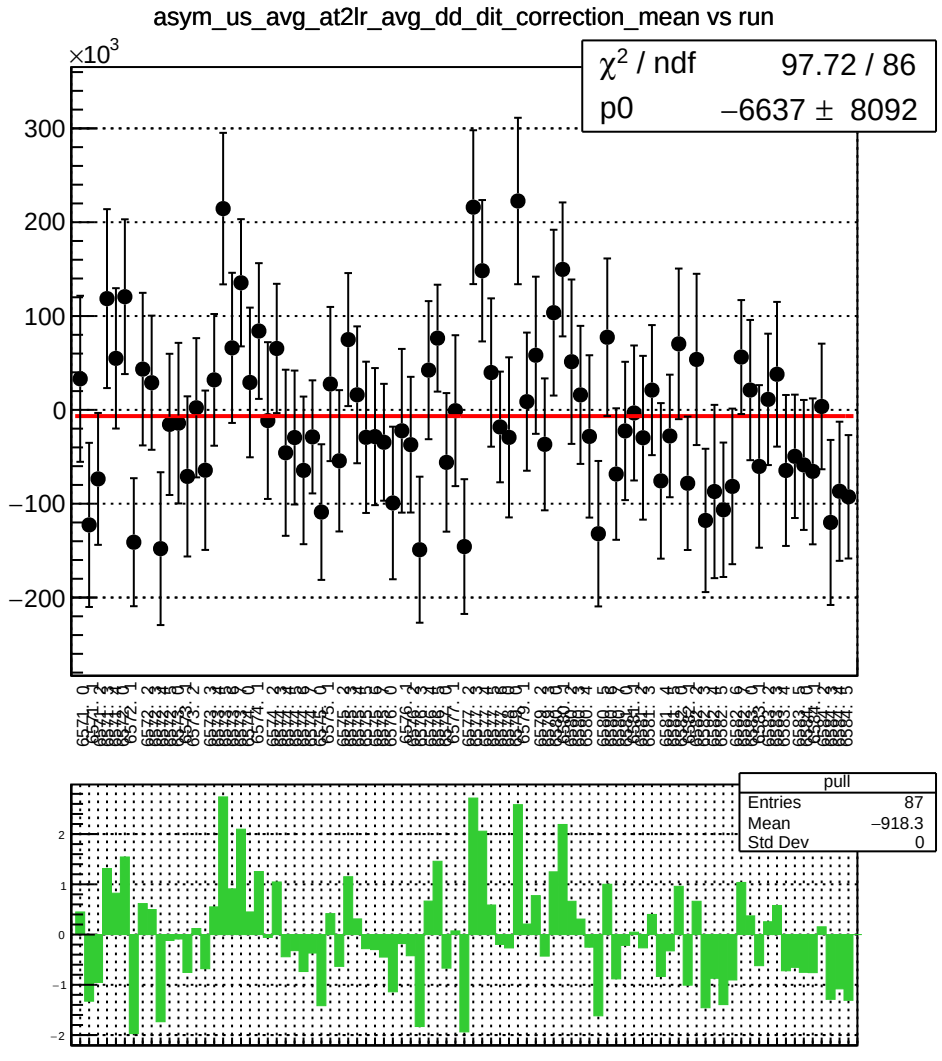

pull1D
Entries 87
Mean 0.00422
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

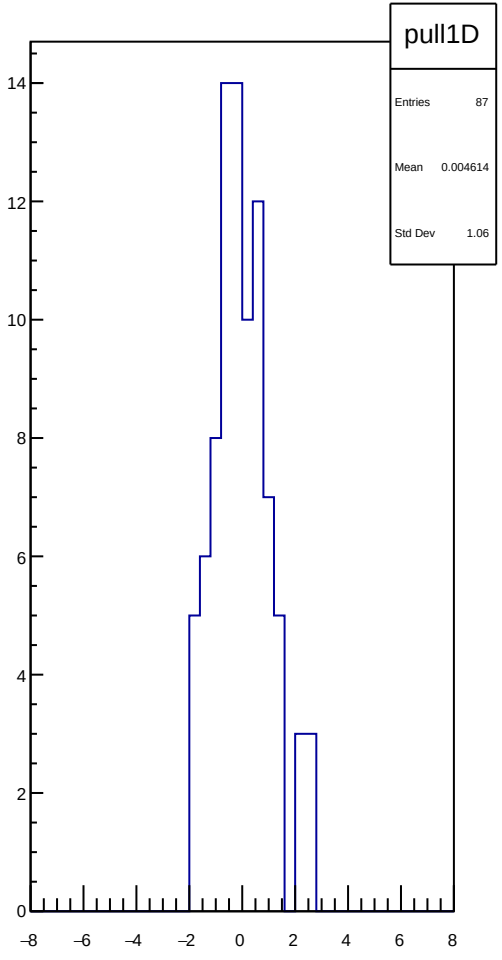

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.219e+04 / 86
p0 6813 ± 5.265
8500
8000
7500
7000
6500
6000

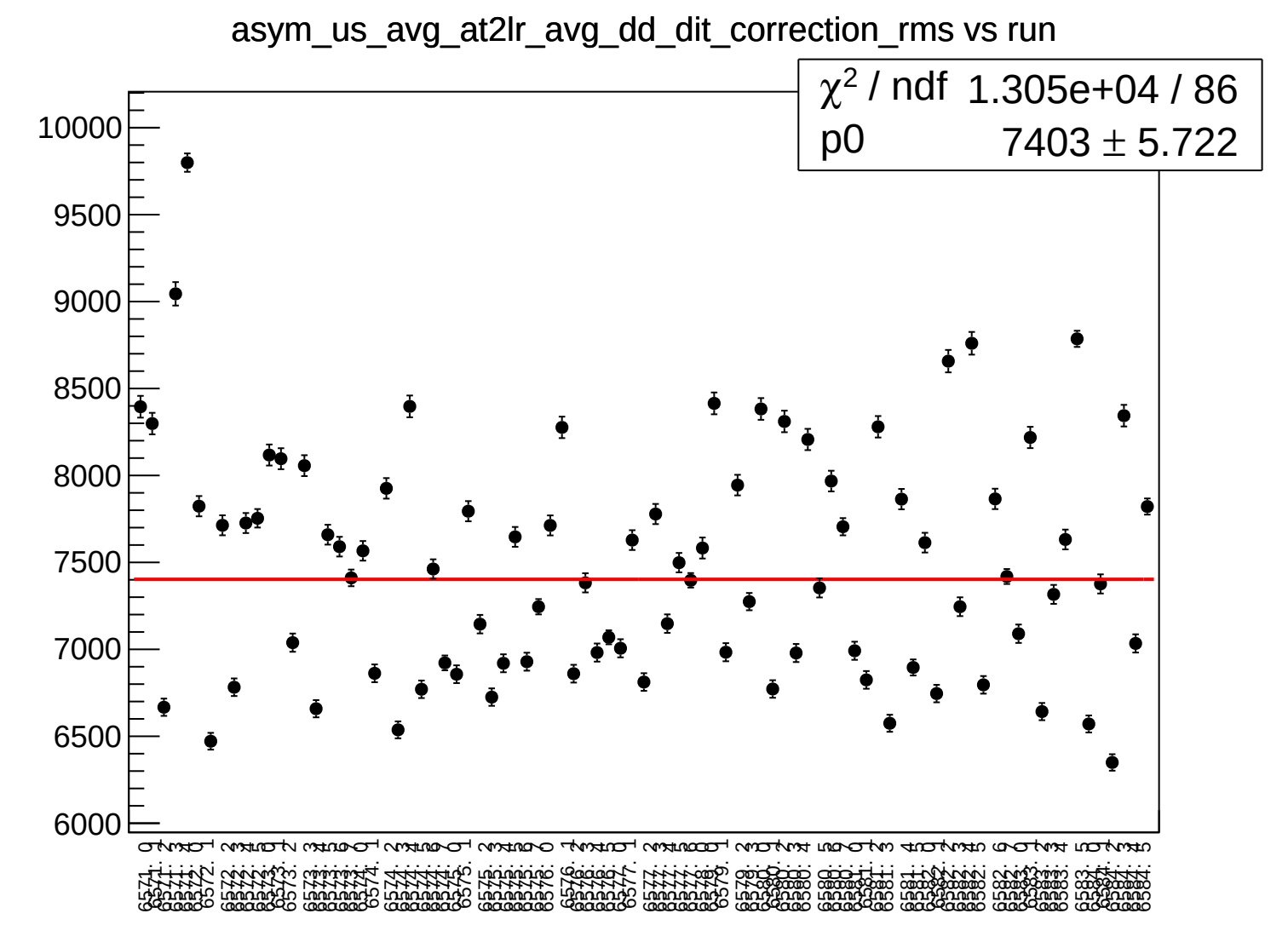

dit_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 93.98 / 86
p0 2242 ± 2171
pull
Entries 87
Mean 88.75
Std Dev 61.19

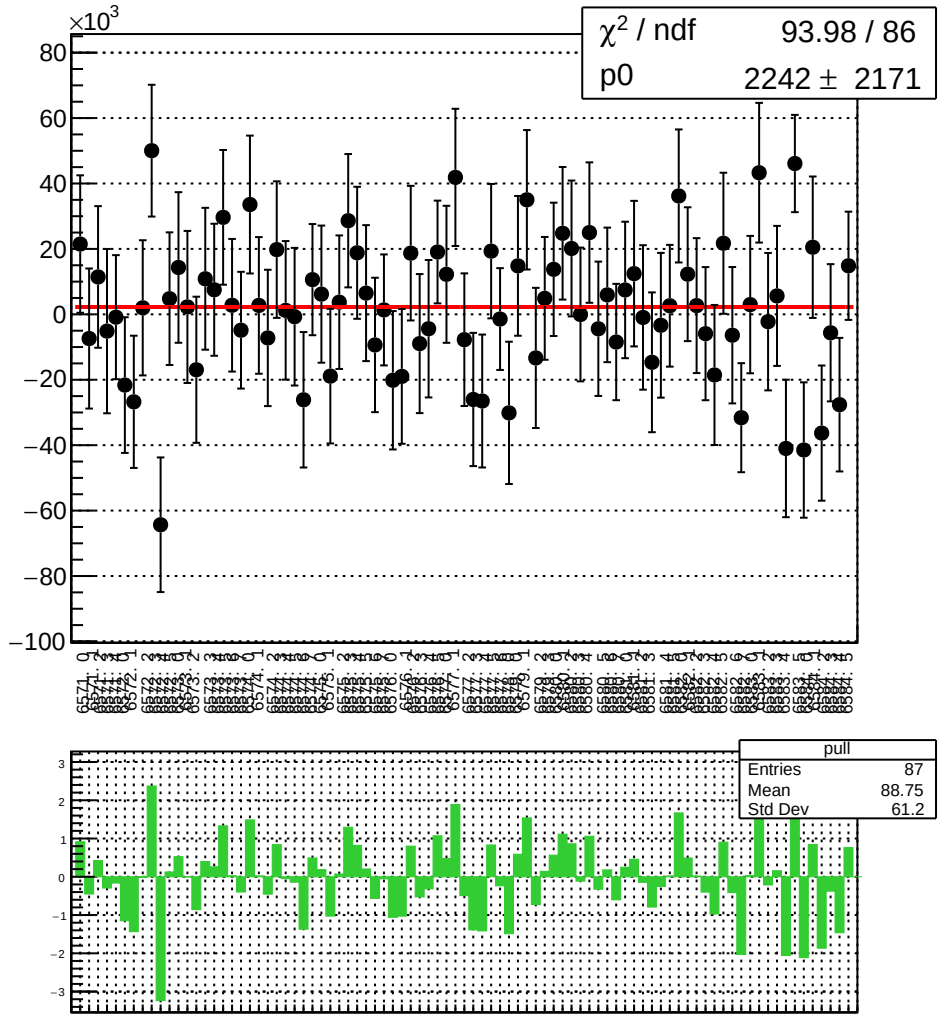

pull1D
Entries 87
Mean −0.0121
Std Dev 1.039

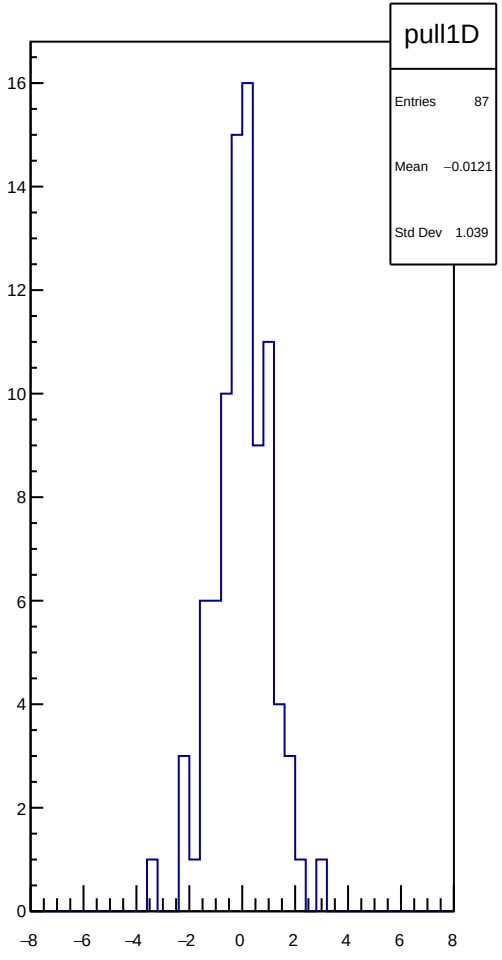

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3090 / 86
p0 1992 ± 1.535
2500
2400
2300
2200
2100
2000
1900

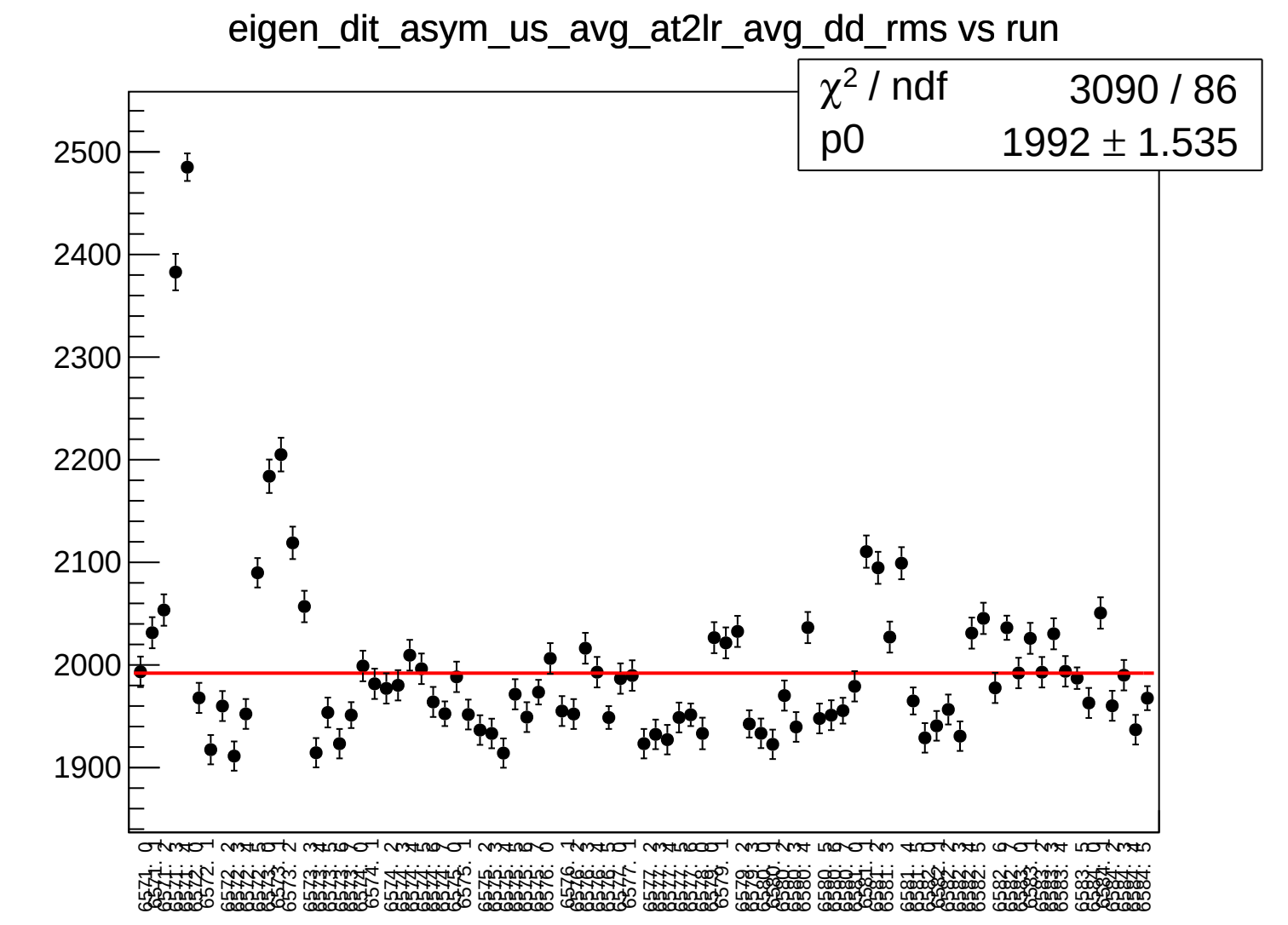

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.72 / 86
p0 −6637 ± 8092
300
200
100
0
−100
−200
pull
Entries 87
Mean −918.3
Std Dev 0
2
1
0
−1
−2

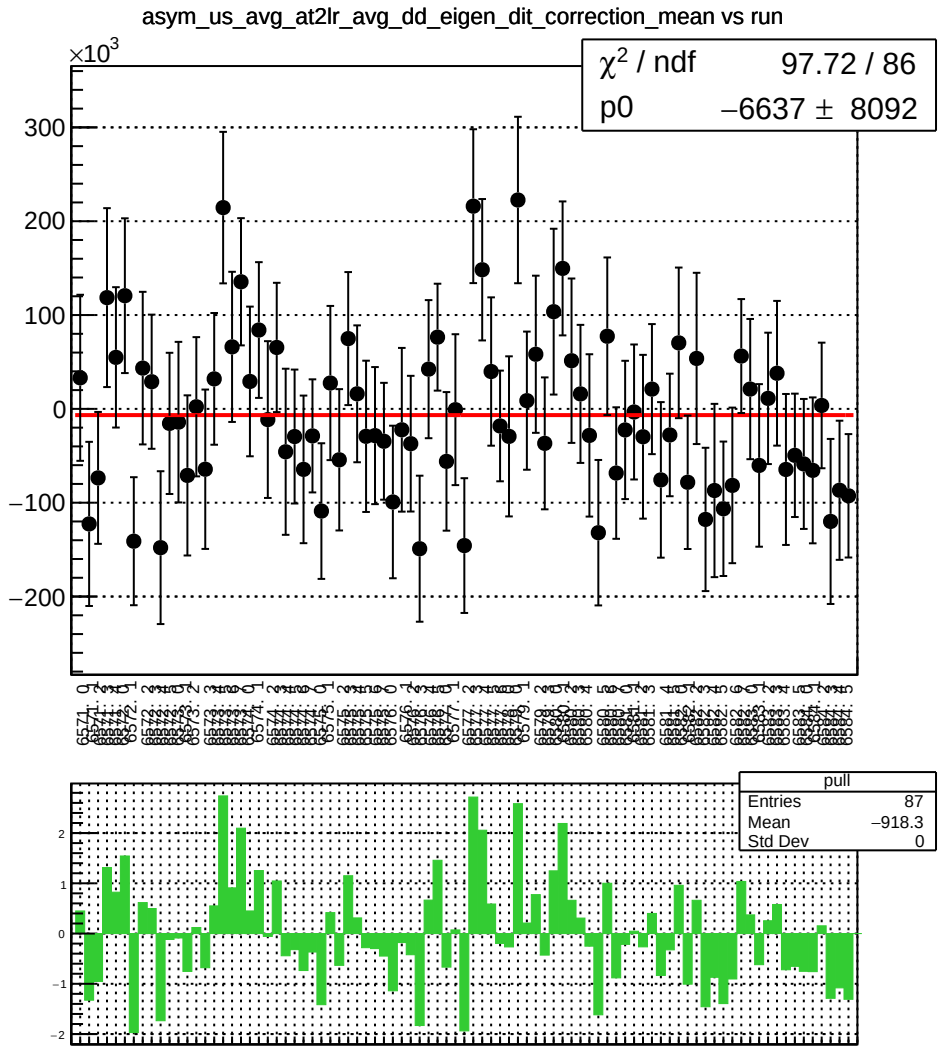

pull1D
Entries 87
Mean 0.004614
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

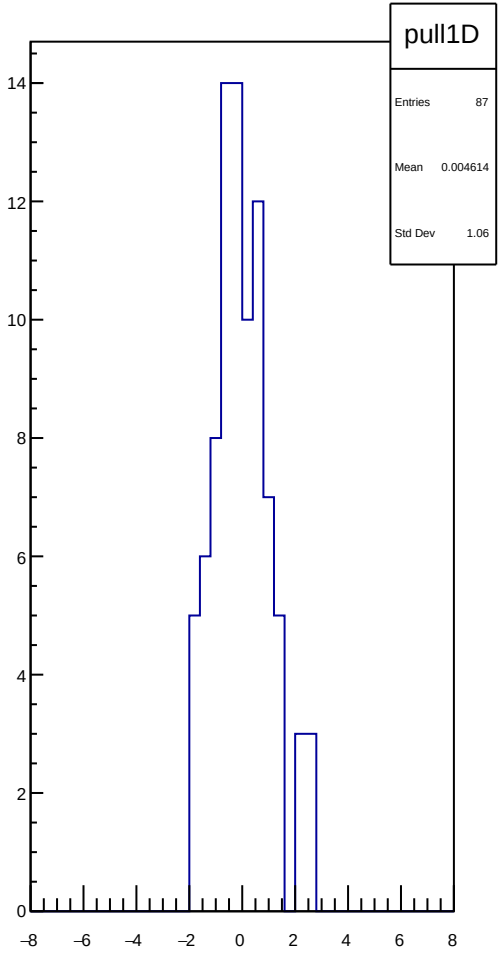

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.305e+04 / 86
p0 7403 ± 5.722
10000
9500
9000
8500
8000
7500
7000
6500
6000

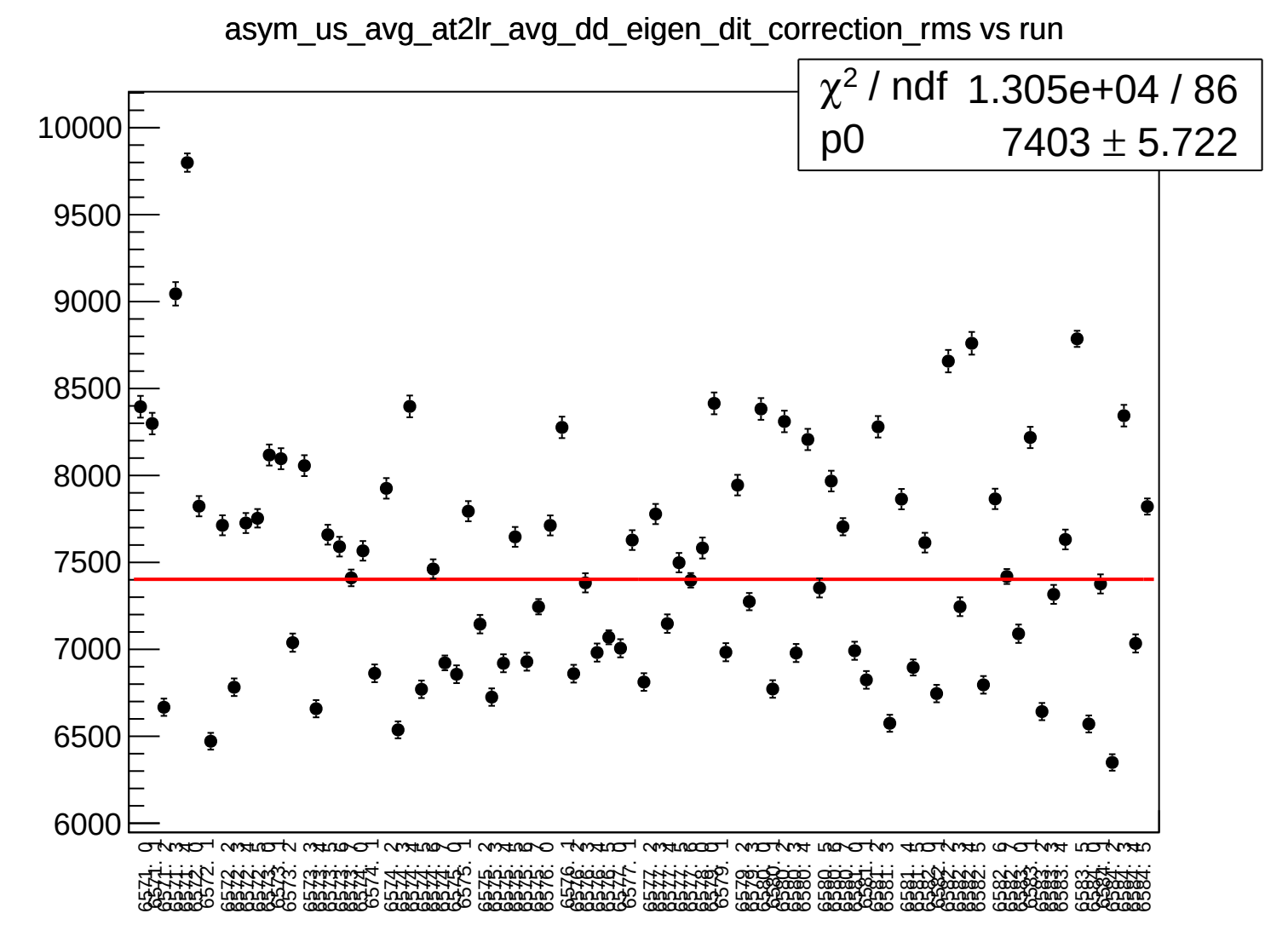

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 93.98 / 86
p0 2242 ± 2171
×10³
pull
Entries 87
Mean 88.75
Std Dev 61.2

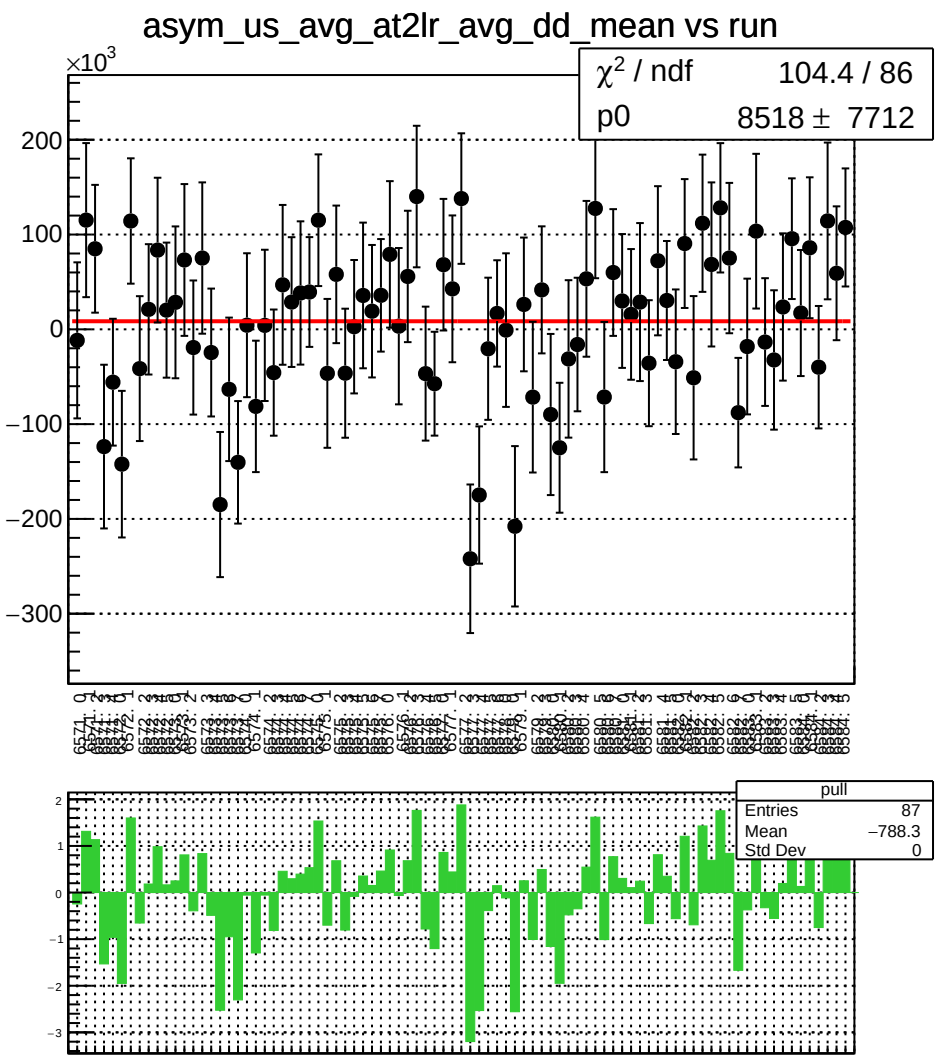

pull1D
Entries 87
Mean −0.0121
Std Dev 1.039

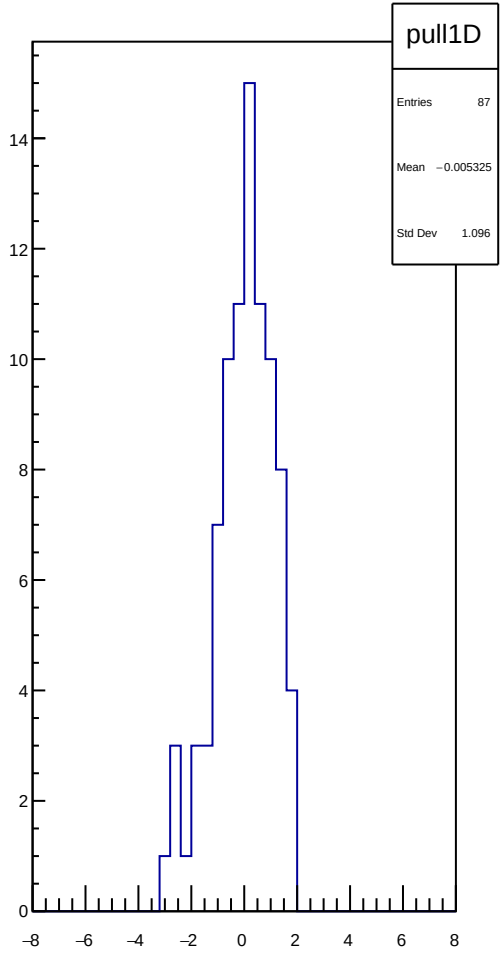

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3090 / 86
p0 1992 ± 1.535
2500
2400
2300
2200
2100
2000
1900

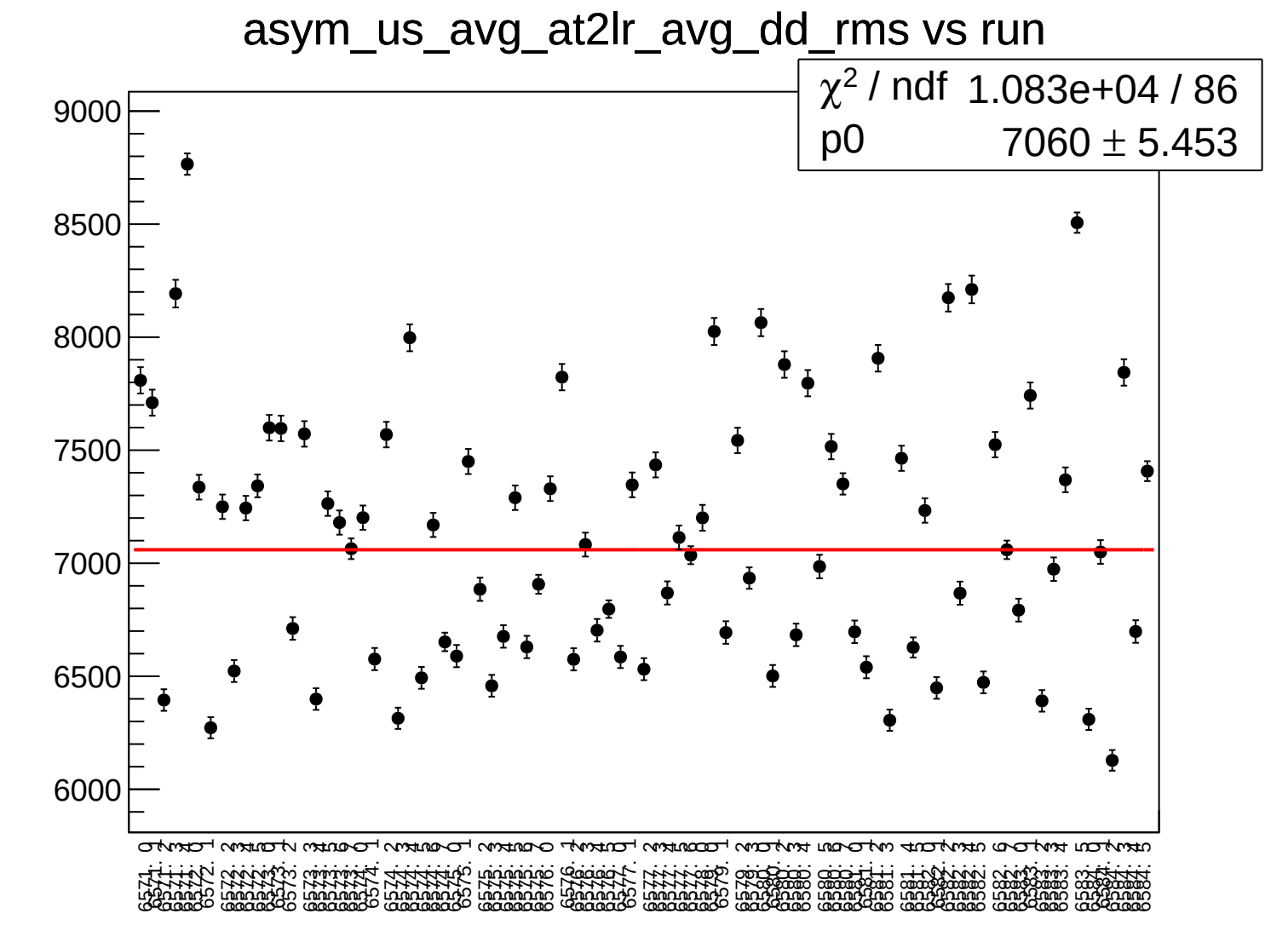

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.72 / 86
p0 −6637 ± 8092
300
200
100
0
−100
−200
pull
Entries 87
Mean −918.3
Std Dev 0
2
1
0
−1
−2

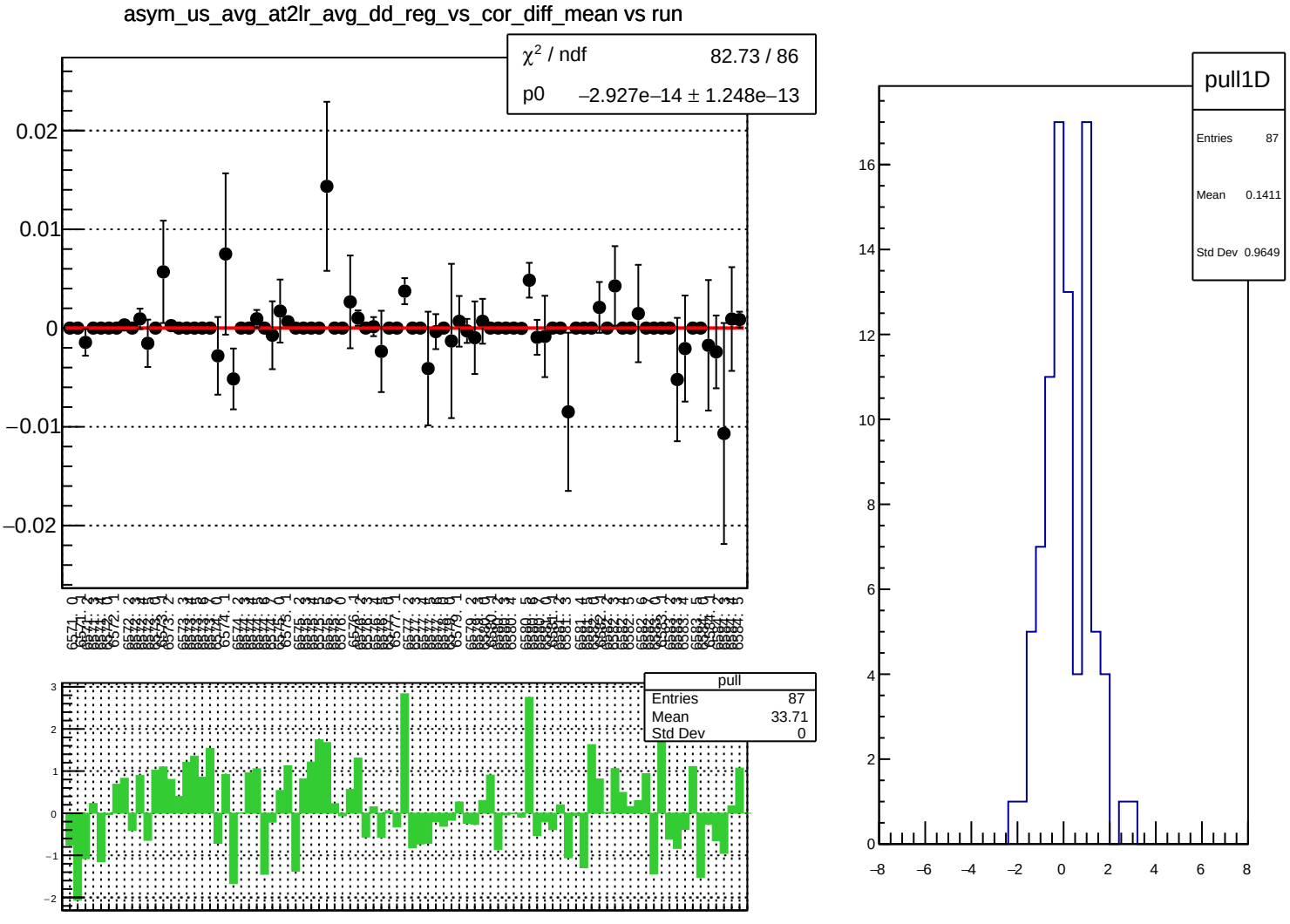

pull1D
Entries 87
Mean 0.004614
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

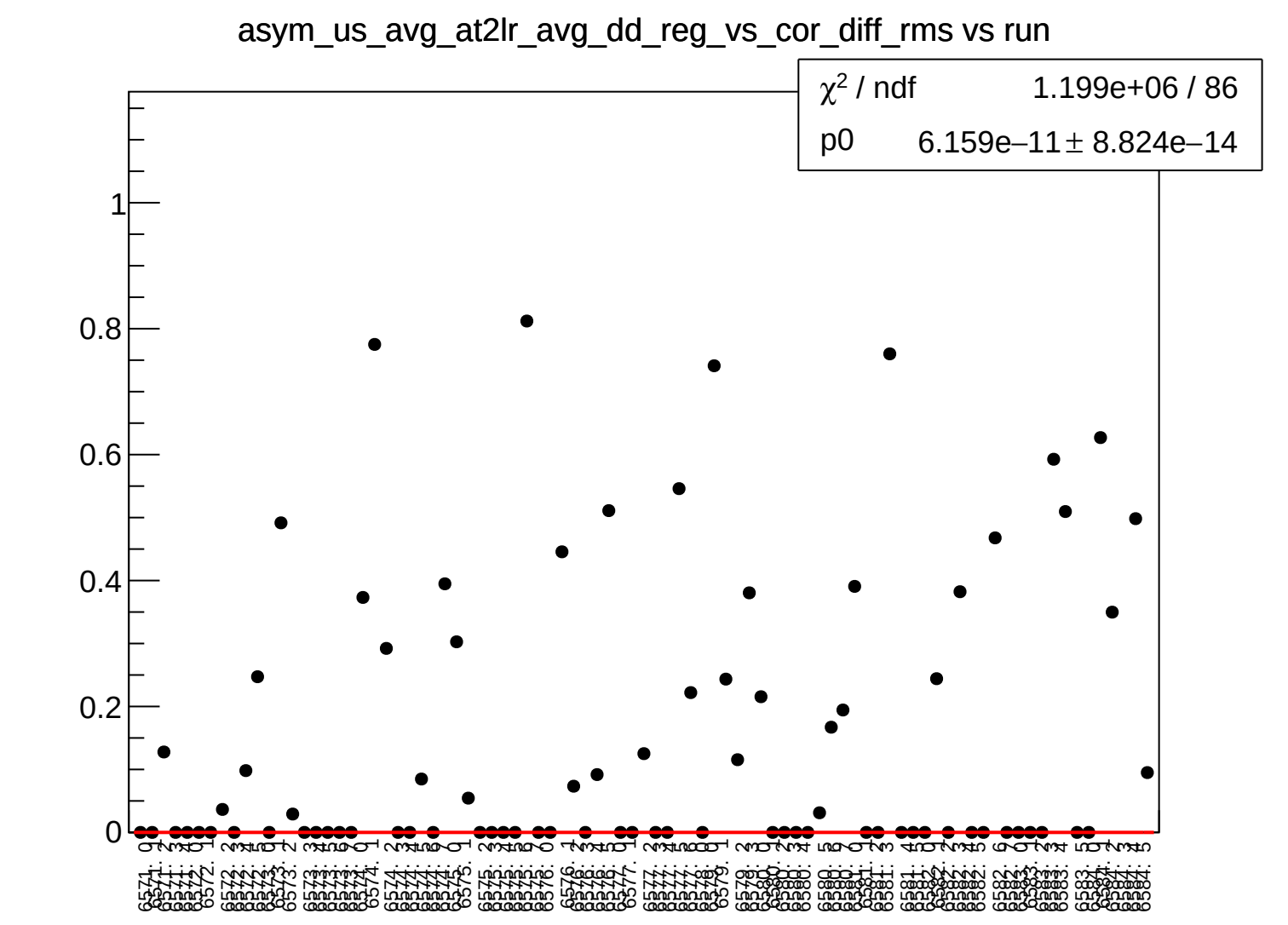

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.305e+04 / 86
p0 7403 ± 5.722
10000
9500
9000
8500
8000
7500
7000
6500
6000

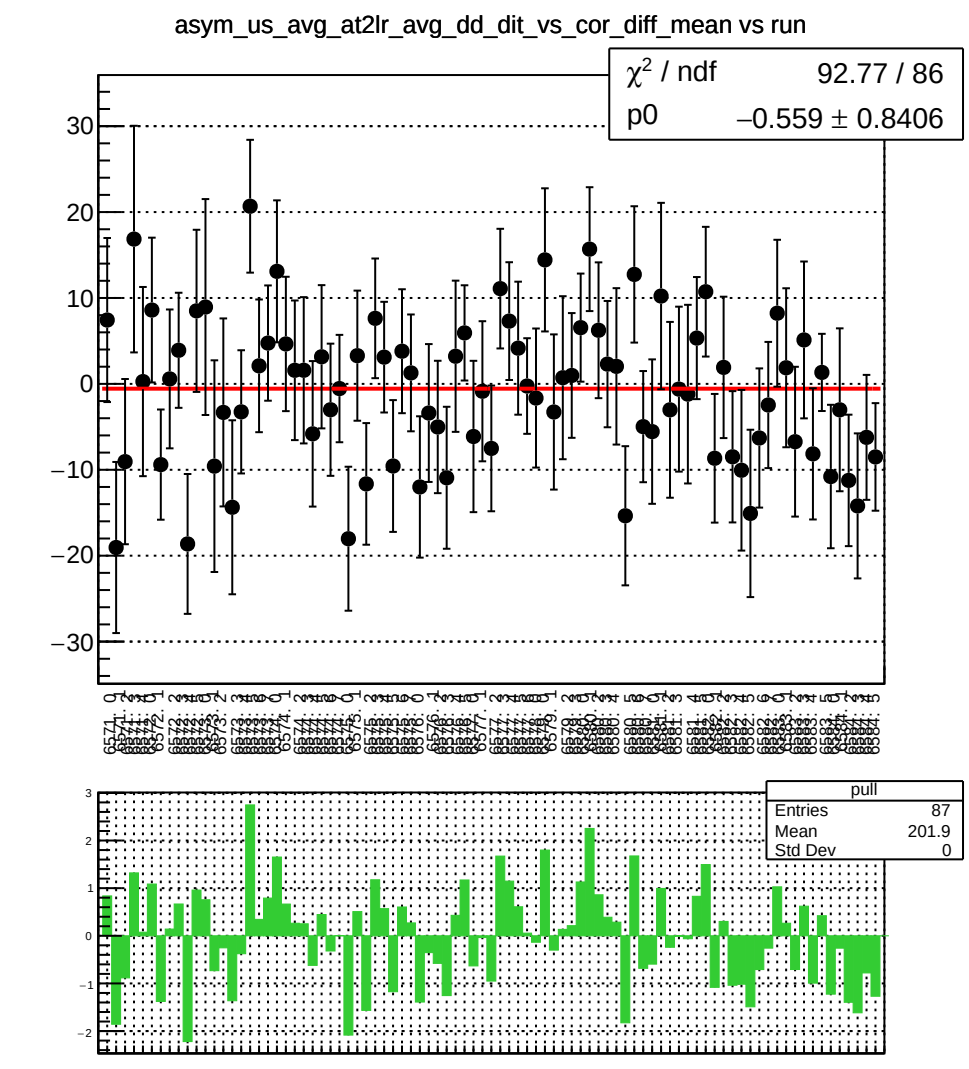

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 104.4 / 86
p0 8518 ± 7712
200
100
0
−100
−200
−300
pull
Entries 87
Mean −788.3
Std Dev 0
2
1
0
−1
−2
−3

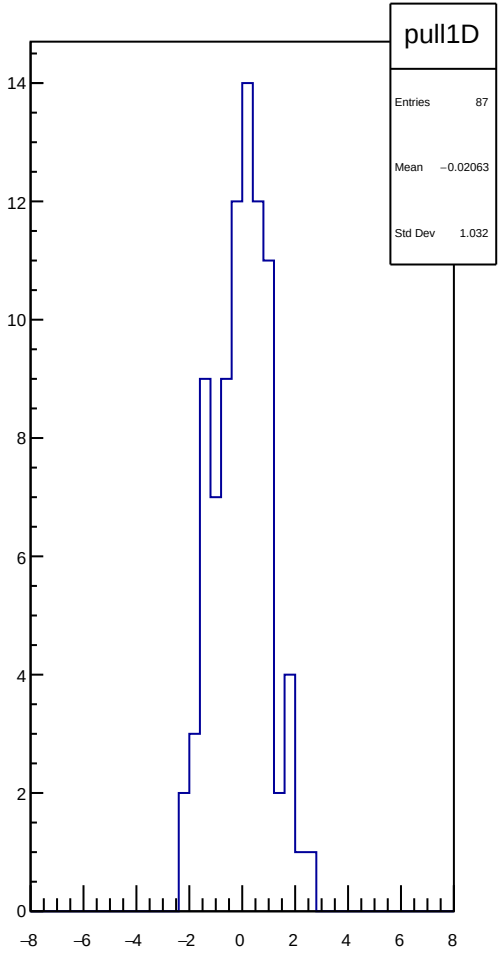

pull1D
Entries 87
Mean −0.005325
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

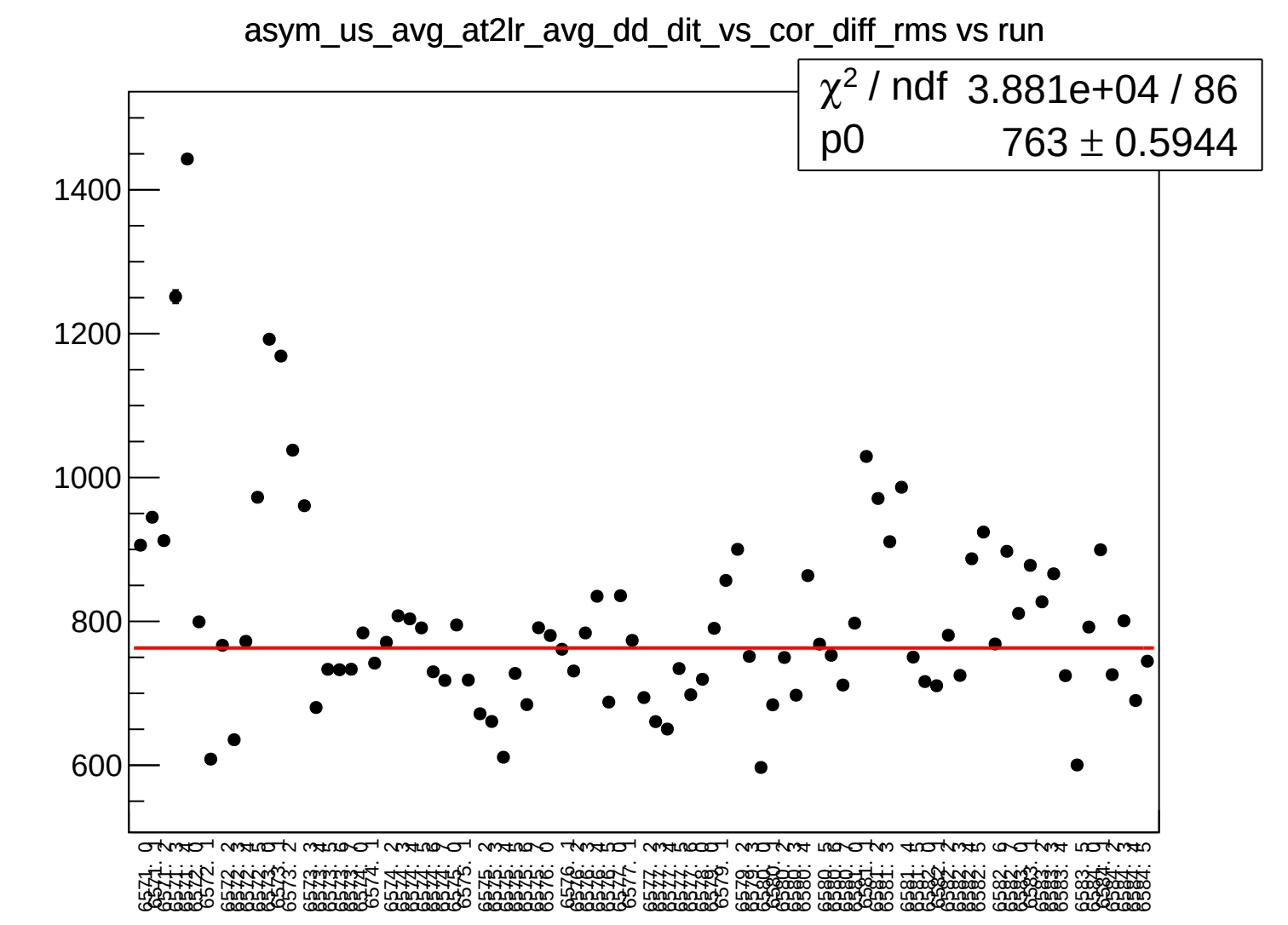

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.083e+04 / 86
p0 7060 ± 5.453
9000
8500
8000
7500
7000
6500
6000

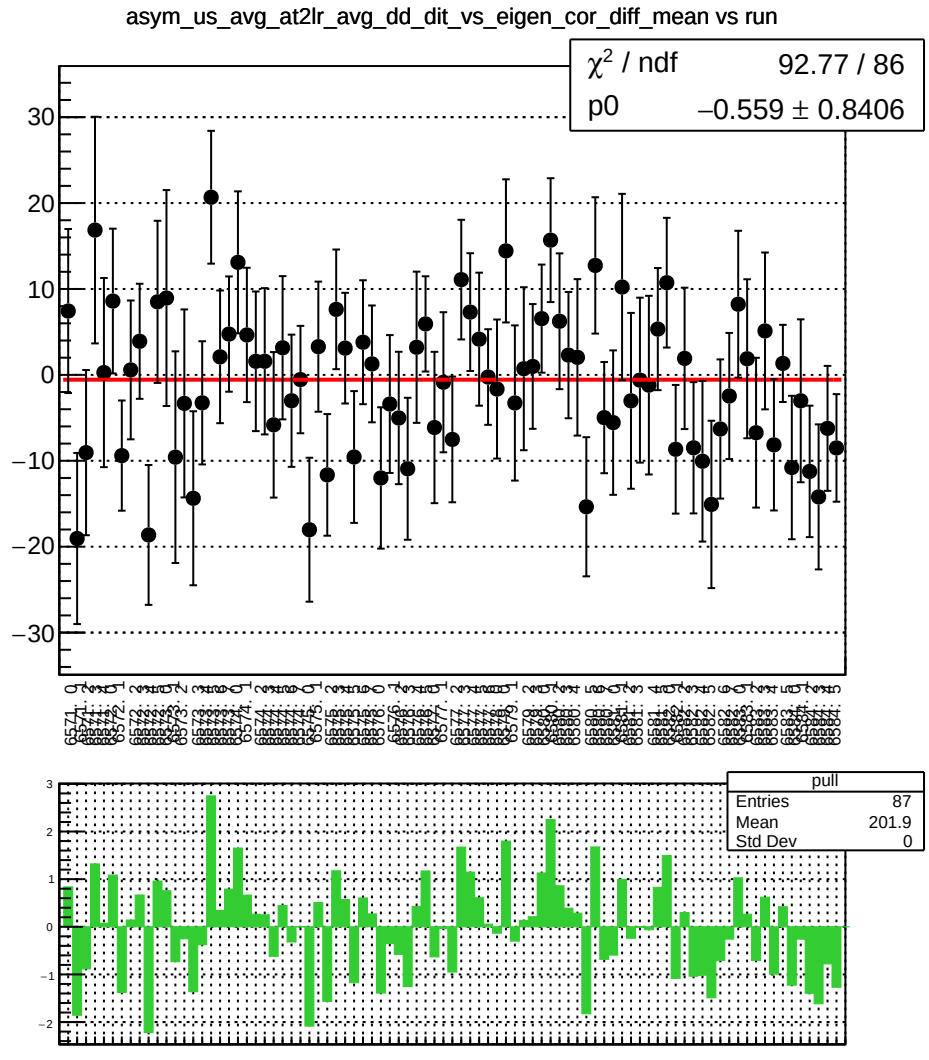

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.73 / 86
p0 −2.927e−14 ± 1.248e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 33.71
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.1411
Std Dev 0.9649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

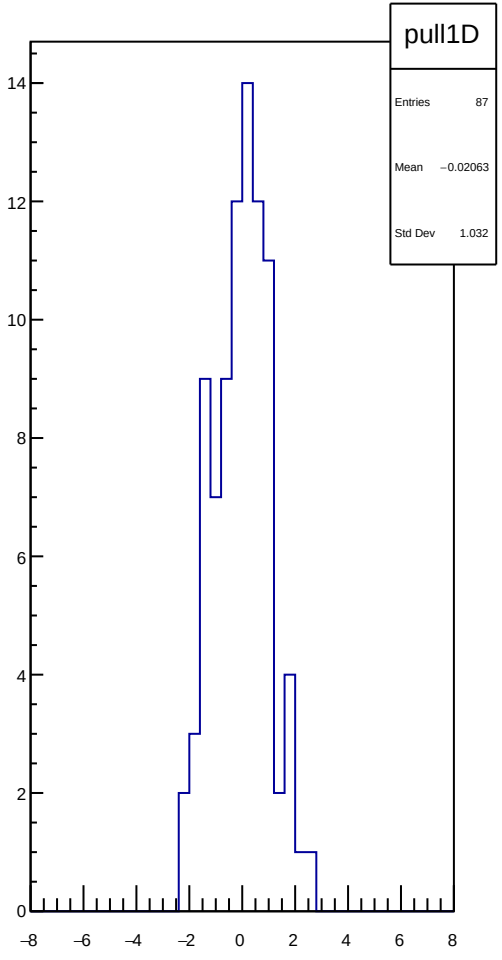

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.199e+06 / 86
p0 6.159e−11 ± 8.824e−14
1
0.8
0.6
0.4
0.2
0

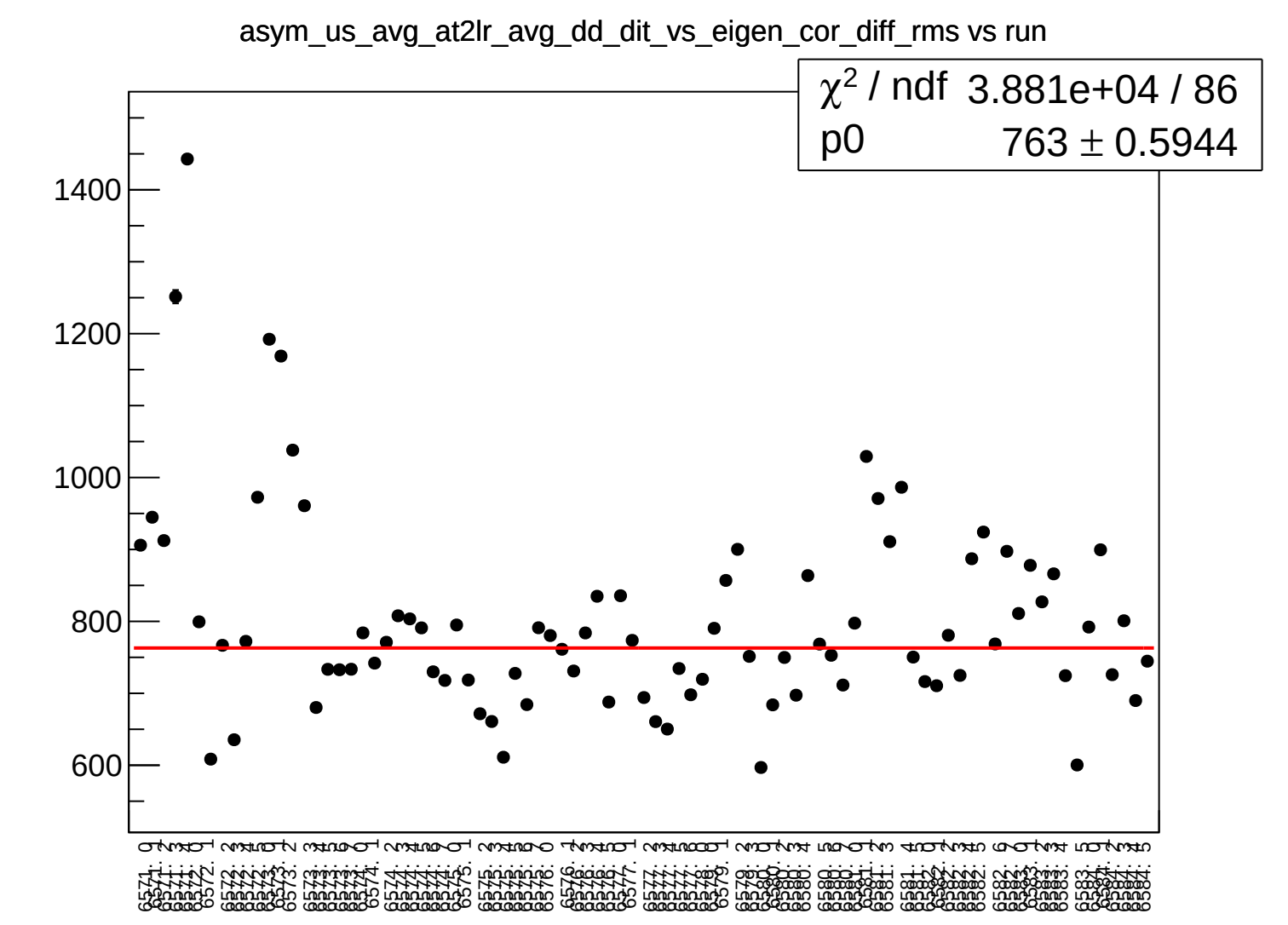

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.77 / 86
p0 −0.559 ± 0.8406
pull
Entries 87
Mean 201.9
Std Dev 0

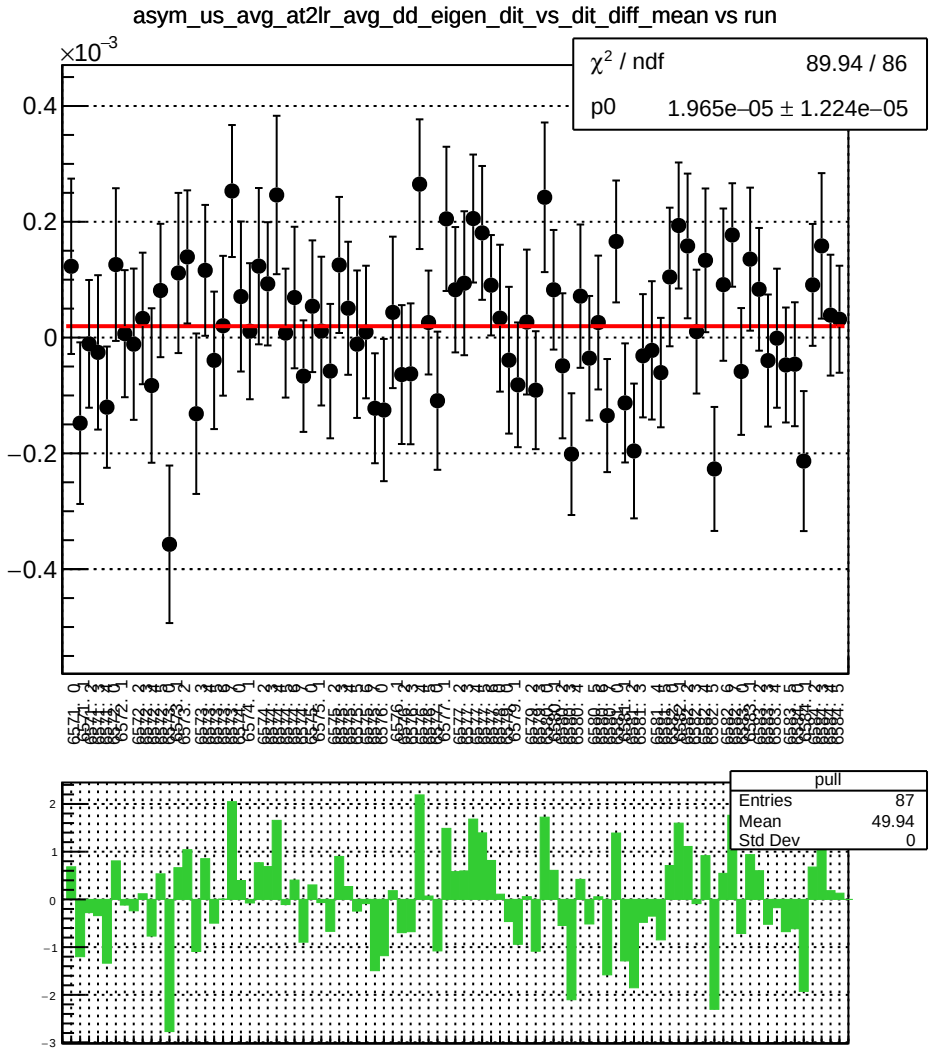

pull1D
Entries 87
Mean −0.02063
Std Dev 1.032

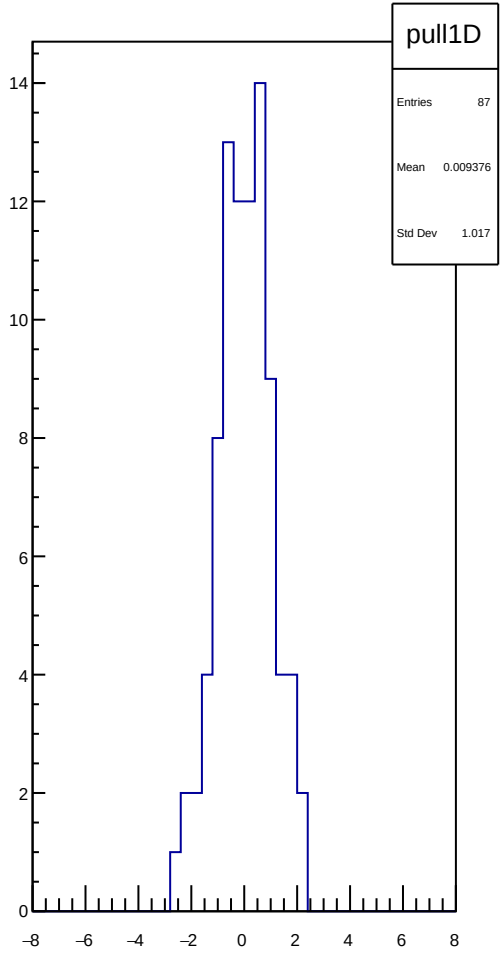

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.881e+04 / 86
p0 763 ± 0.5944
1400
1200
1000
800
600


asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.77 / 86
p0 −0.559 ± 0.8406
pull
Entries 87
Mean 201.9
Std Dev 0

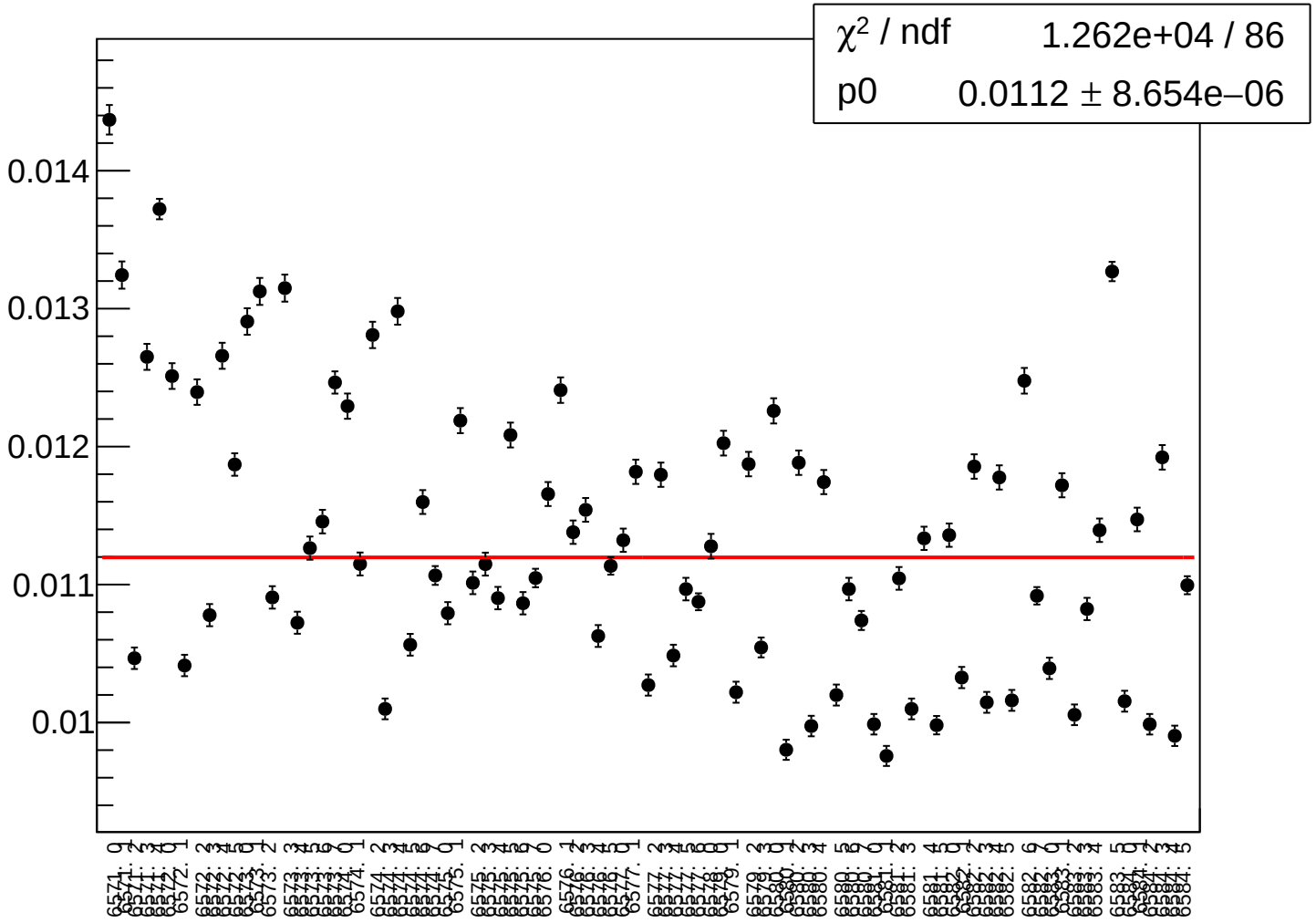

pull1D
Entries 87
Mean −0.02063
Std Dev 1.032

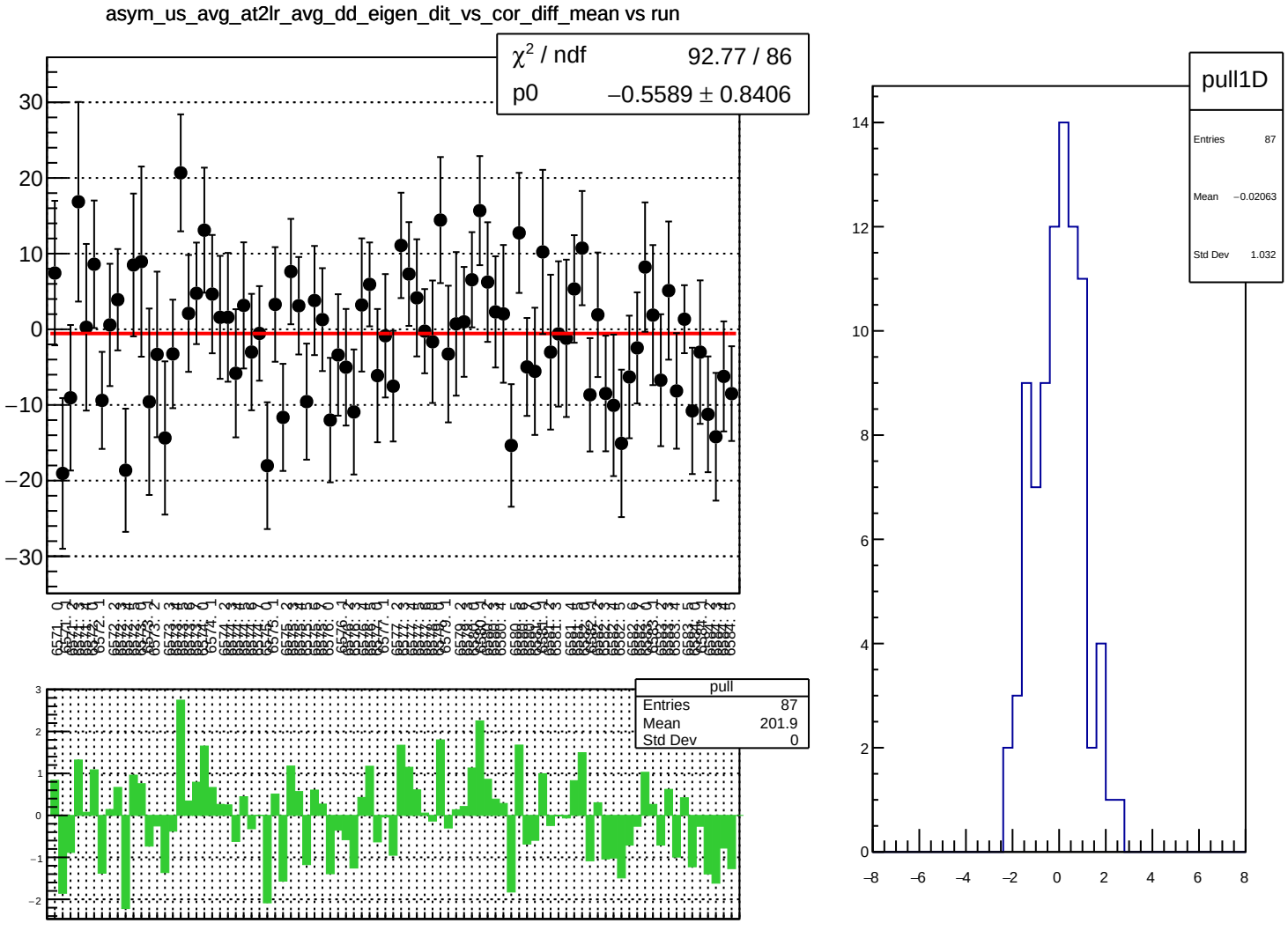

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.881e+04 / 86
p0 763 ± 0.5944
1400
1200
1000
800
600

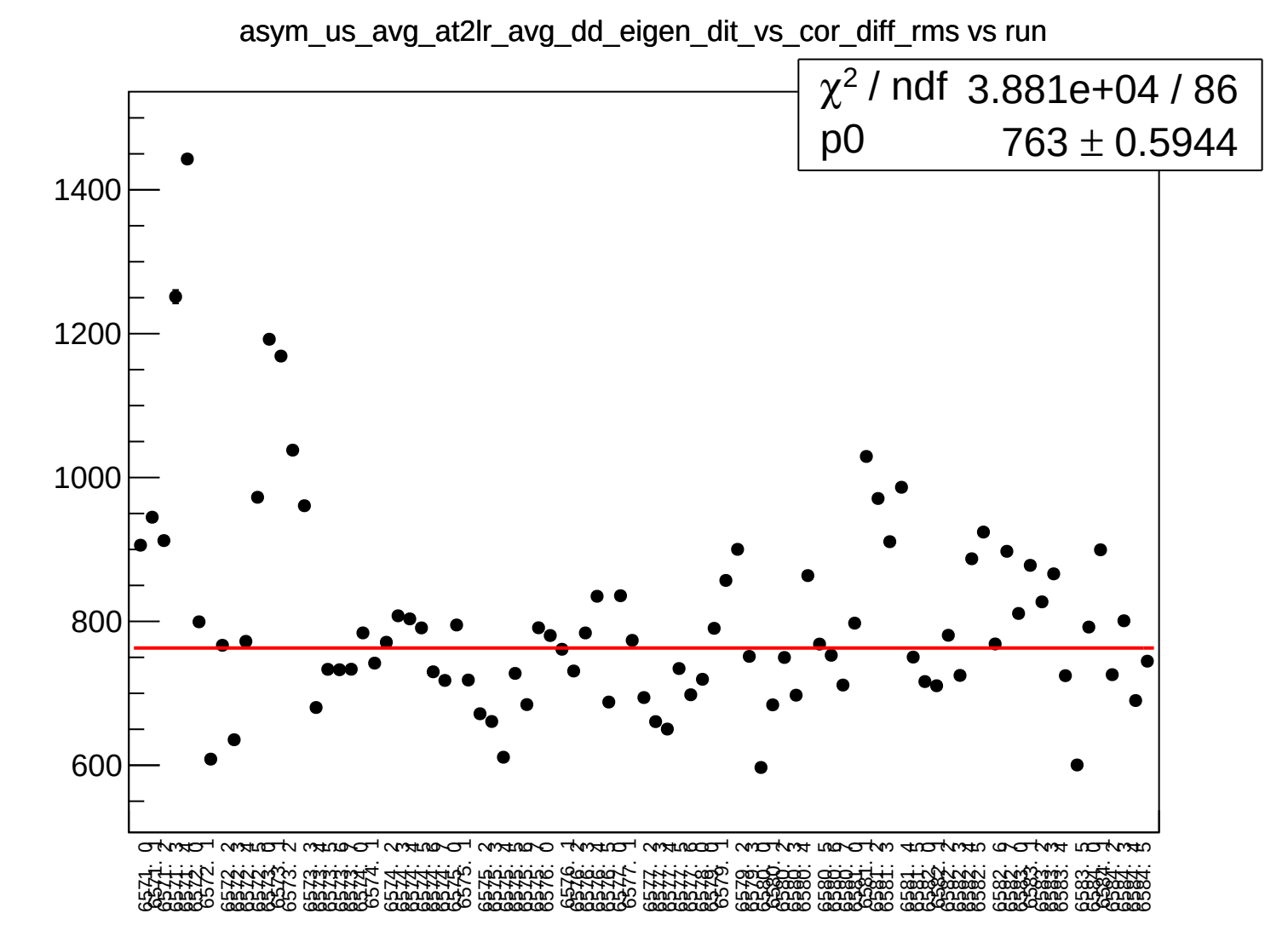

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.94 / 86
p0 1.965e−05 ± 1.224e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 87
Mean 49.94
Std Dev 0
2
1
0
−1
−2
−3

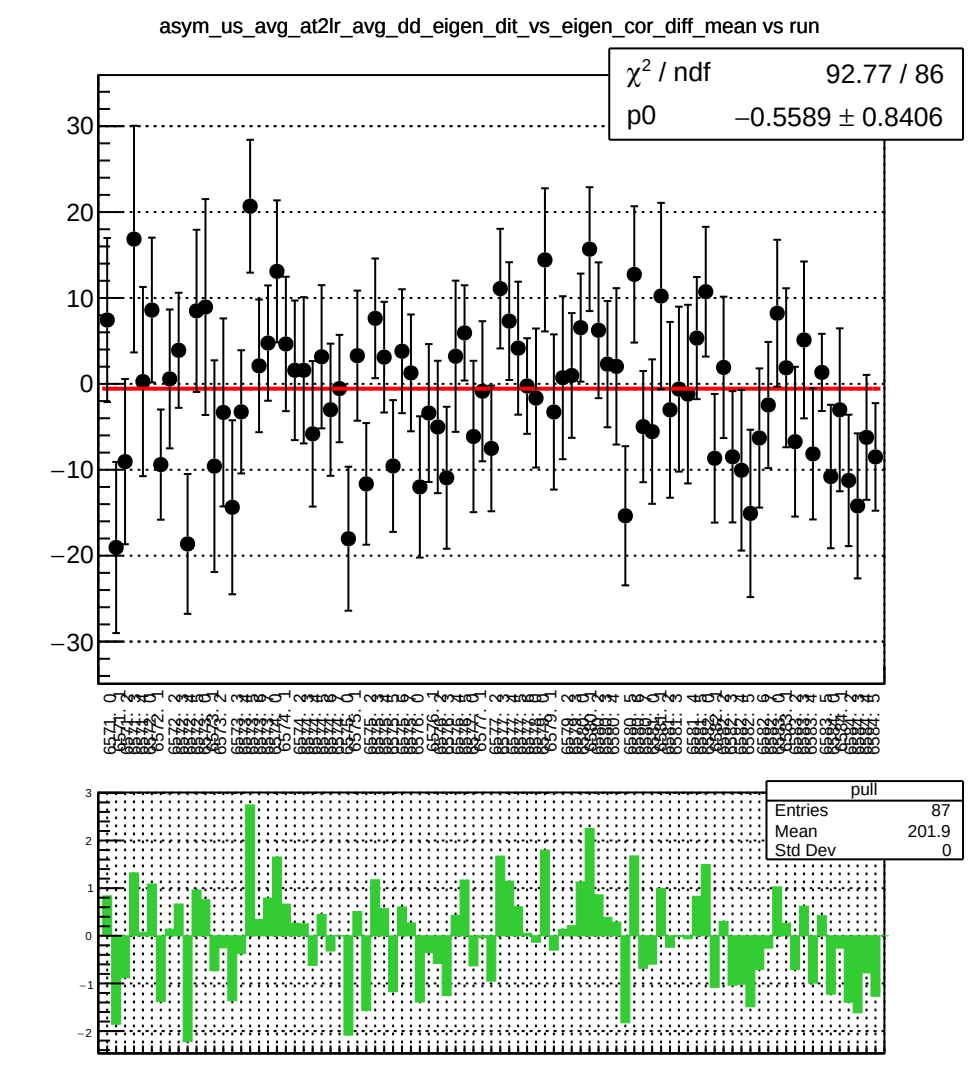

pull1D
Entries 87
Mean 0.009376
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

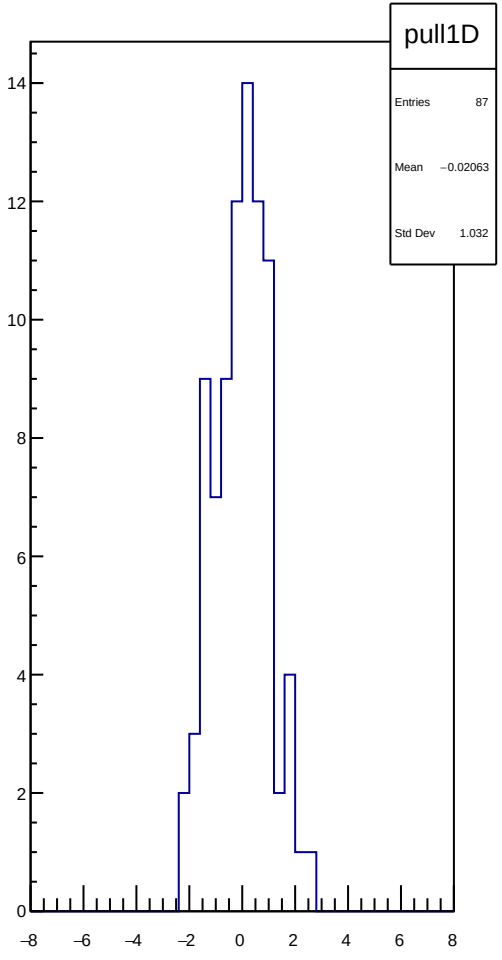
asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run

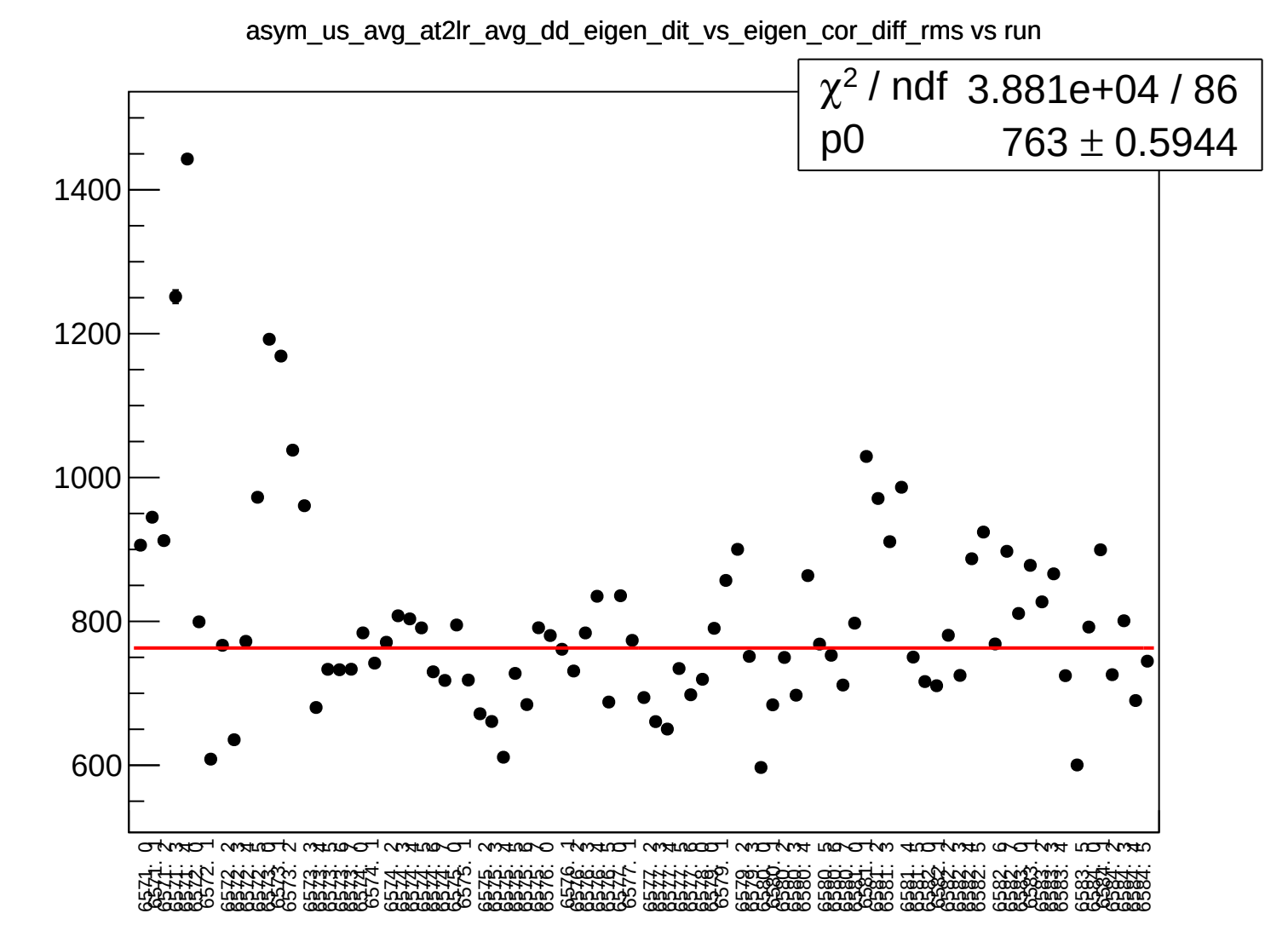


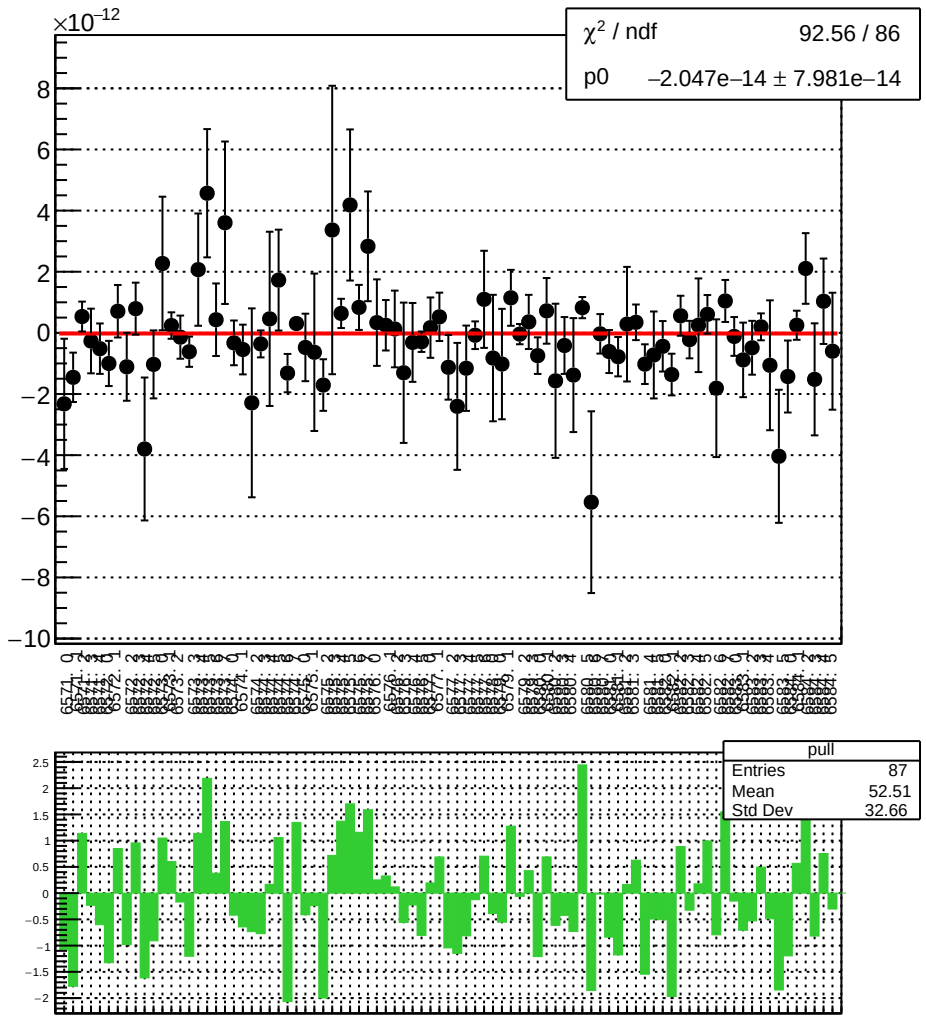

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.77 / 86
p0 −0.5589 ± 0.8406
pull
Entries 87
Mean 201.9
Std Dev 0
pull1D
Entries 87
Mean −0.02063
Std Dev 1.032

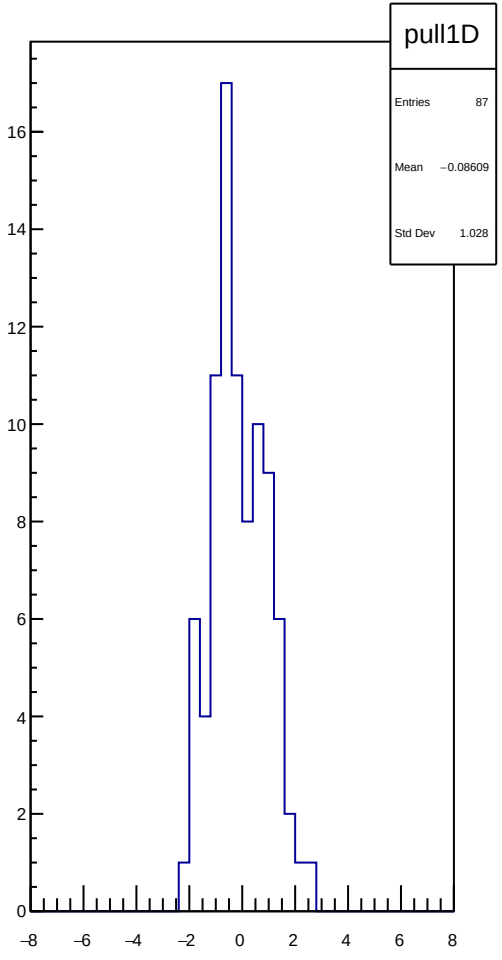

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.881e+04 / 86
p0 763 ± 0.5944
1400
1200
1000
800
600

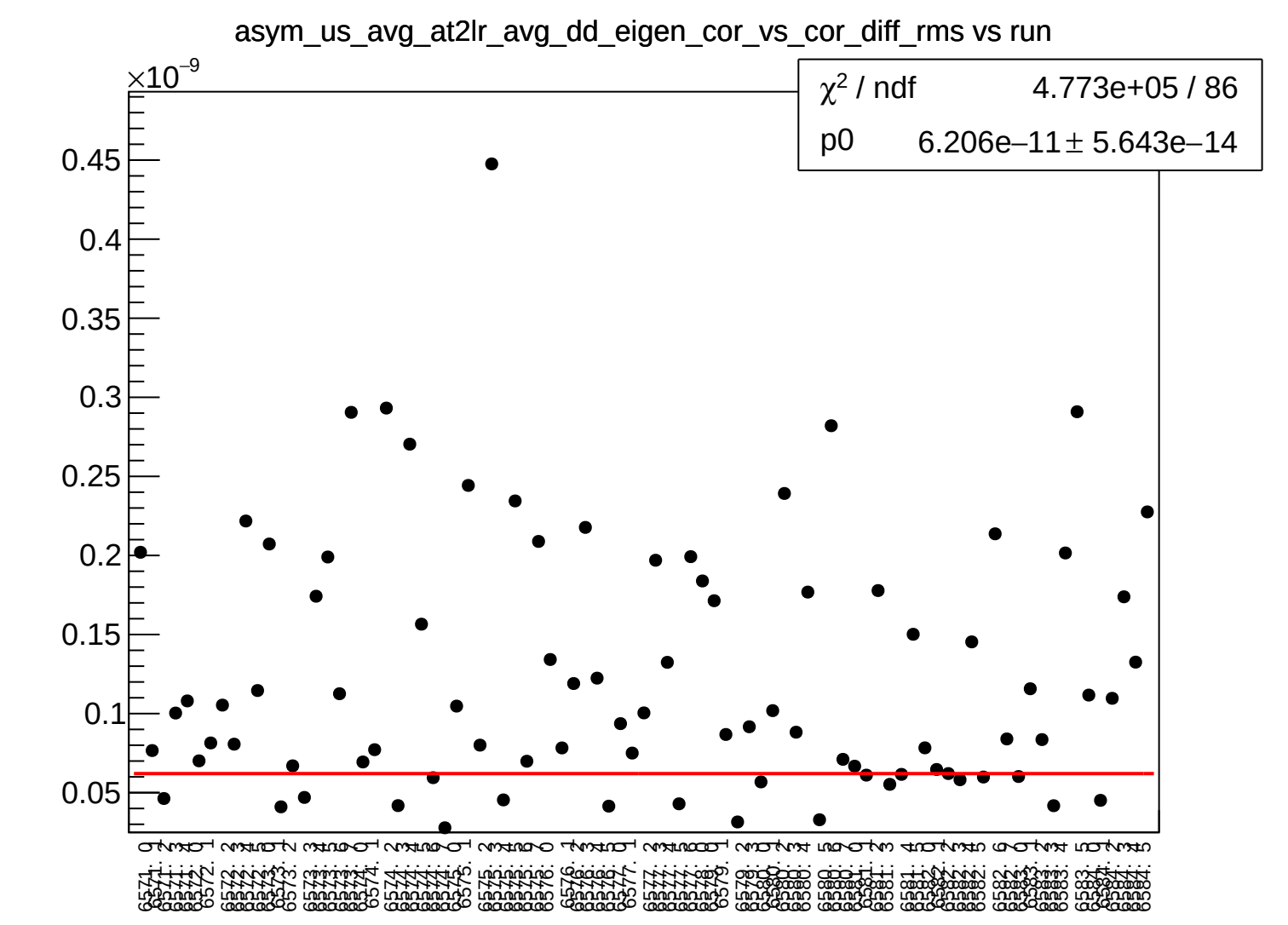

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.77 / 86
p0 −0.5589 ± 0.8406
pull
Entries 87
Mean 201.9
Std Dev 0

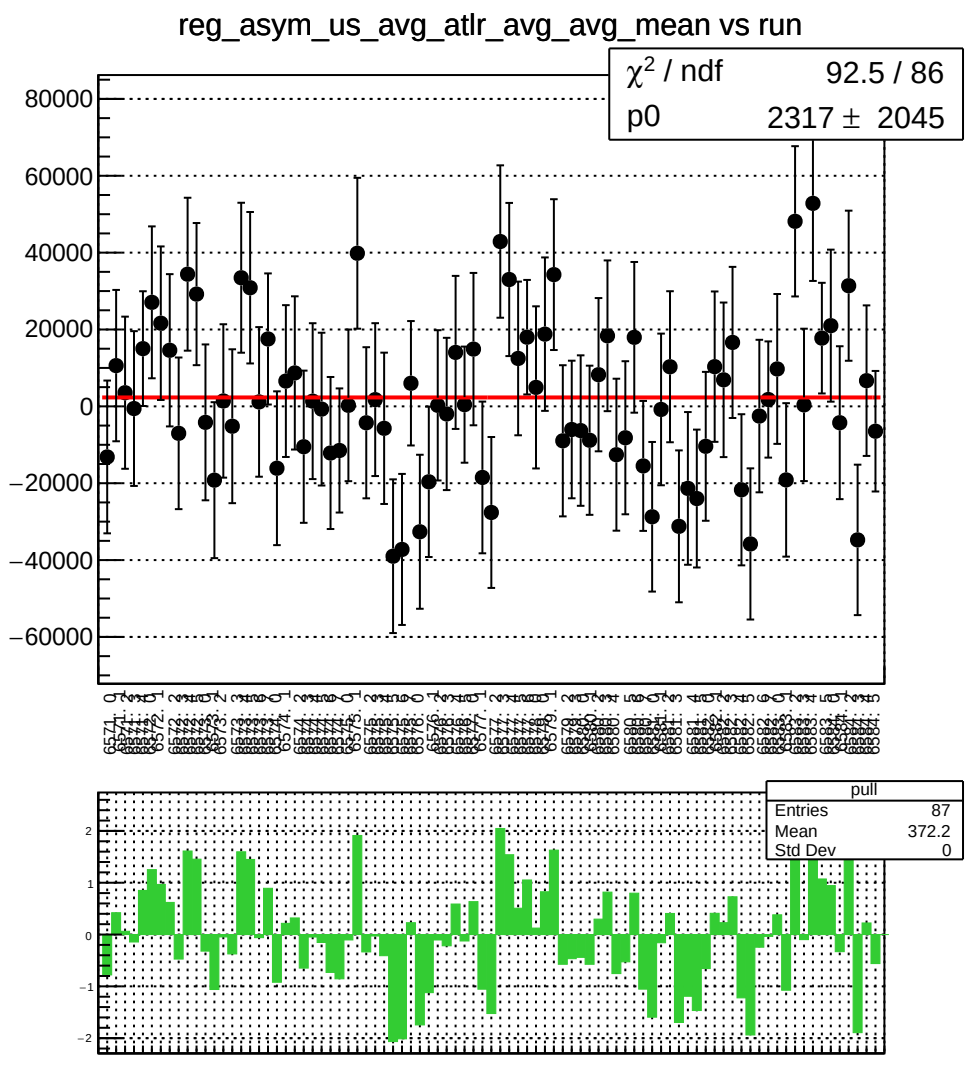

pull1D
Entries 87
Mean −0.02063
Std Dev 1.032

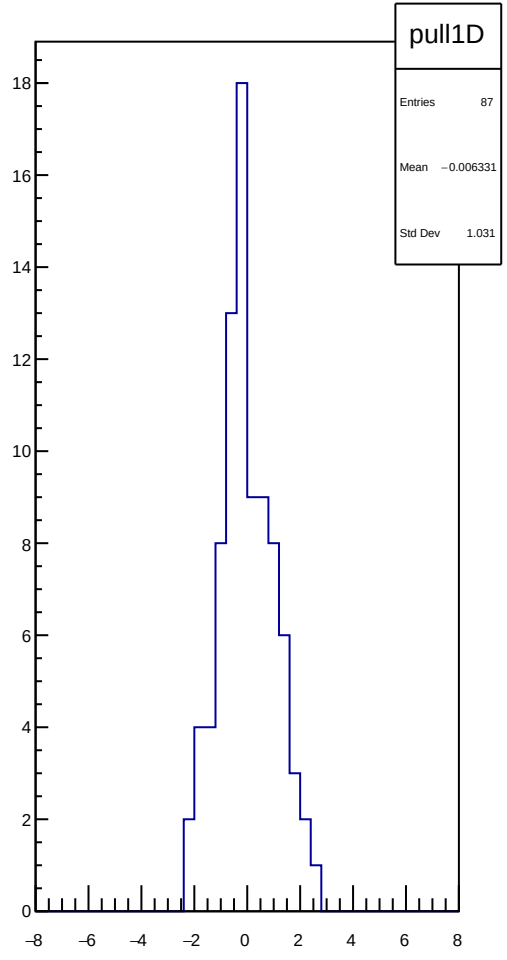

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.881e+04 / 86
p0 763 ± 0.5944
1400
1200
1000
800
600

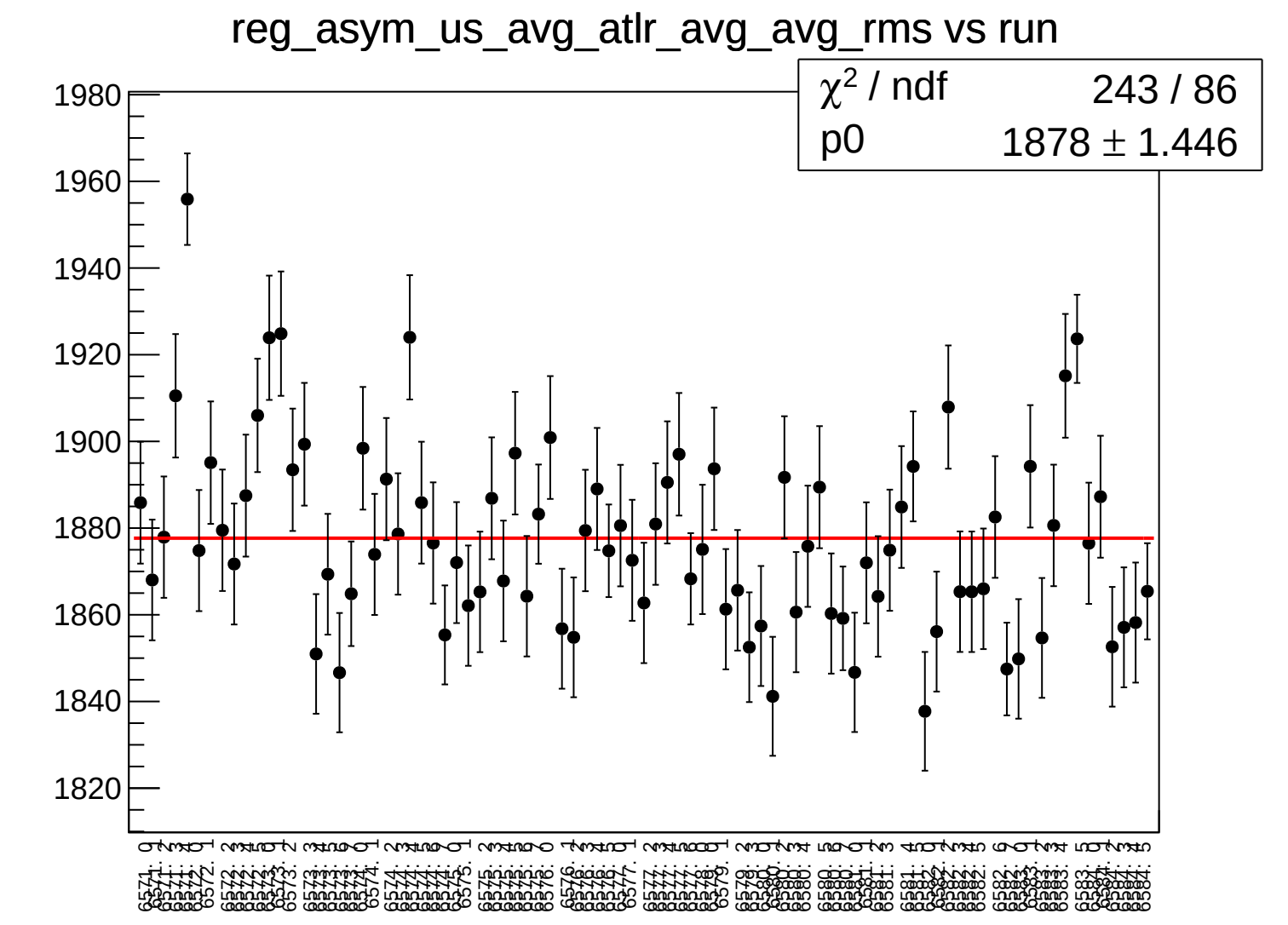

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.56 / 86
p0 −2.047e−14 ± 7.981e−14
pull
Entries 87
Mean 52.51
Std Dev 32.66

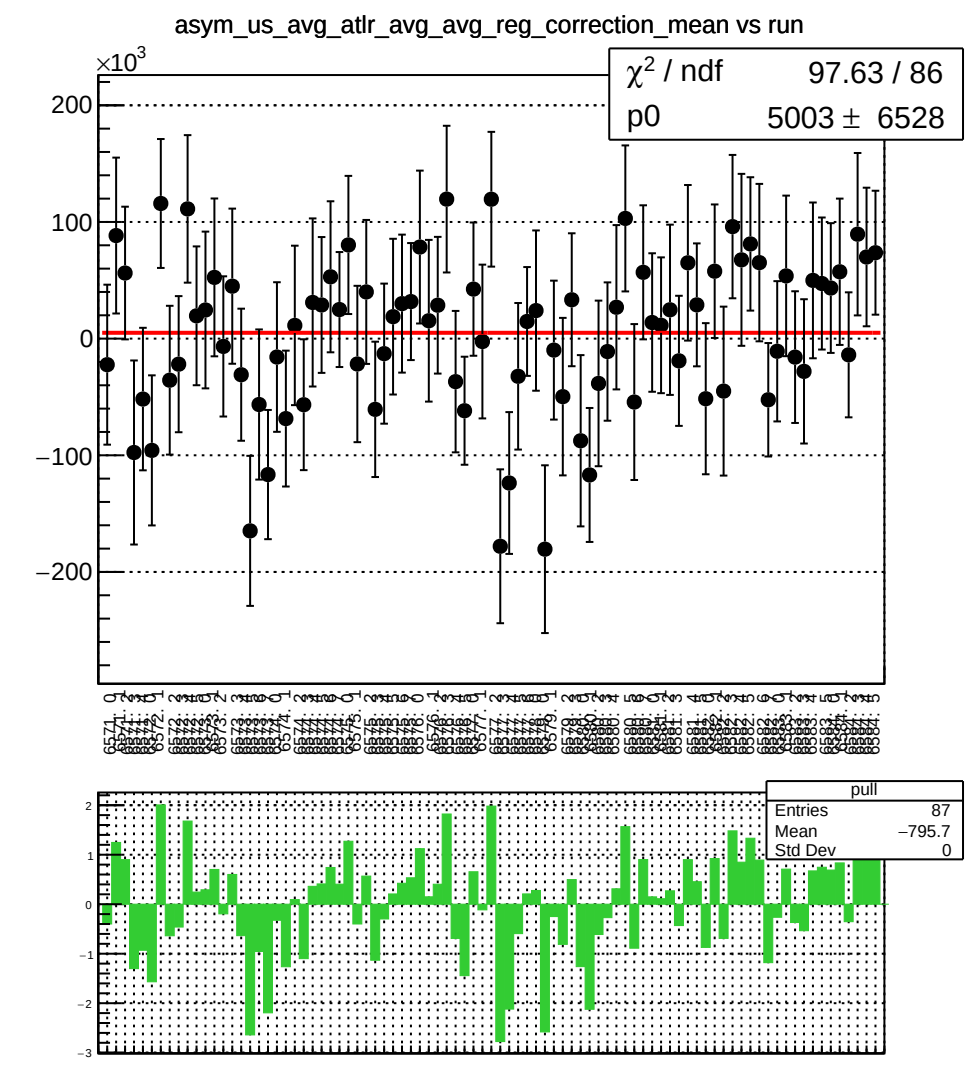

pull1D
Entries 87
Mean −0.08609
Std Dev 1.028

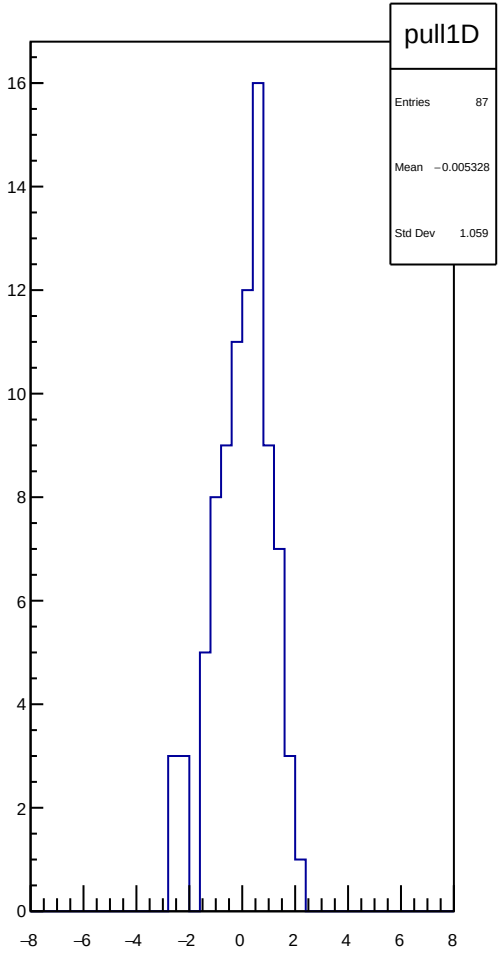

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.773e+05 / 86
p0 6.206e−11 ± 5.643e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

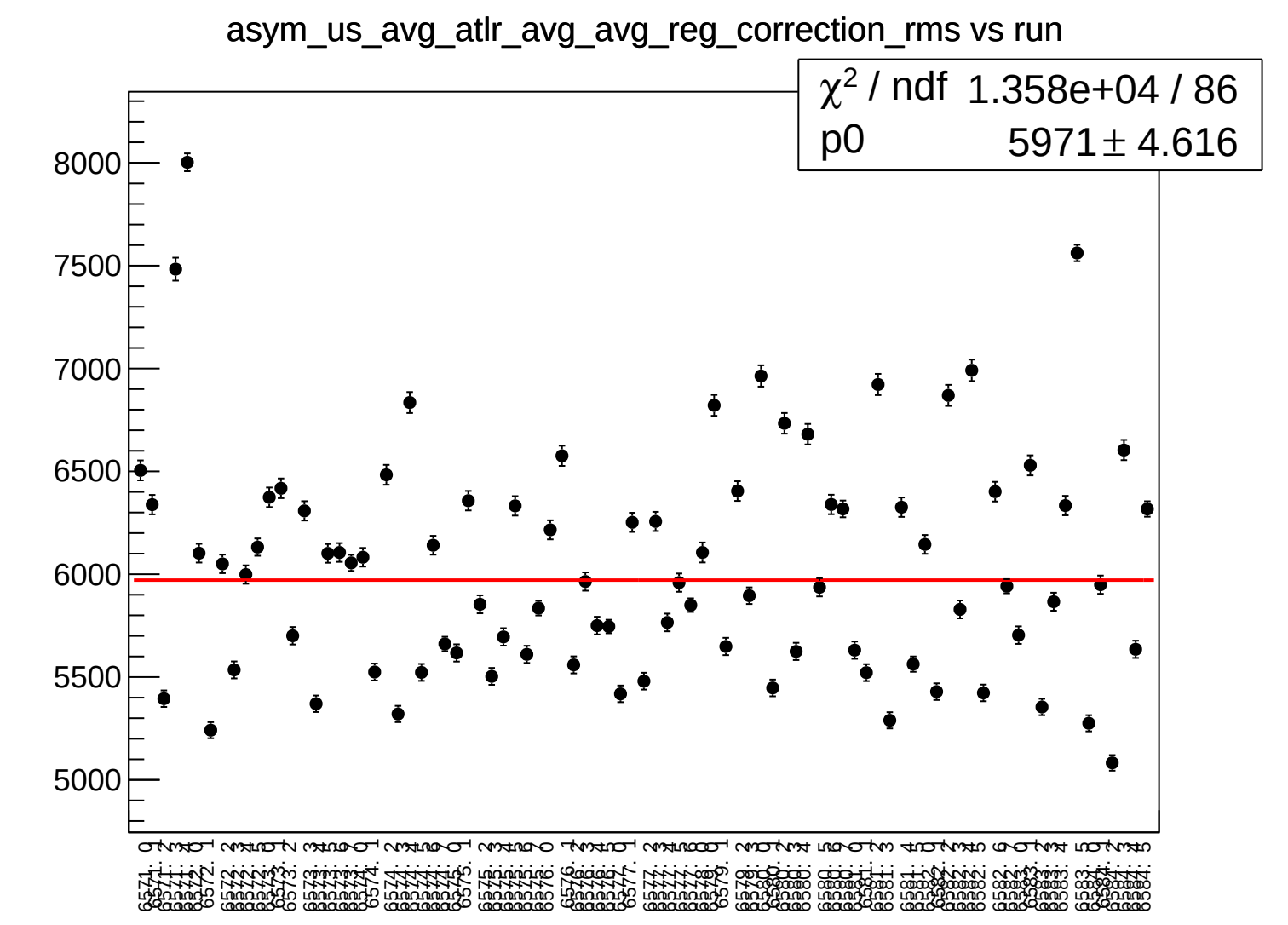

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.5 / 86
p0 2317 ± 2045
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 372.2
Std Dev 0
2
1
0
−1
−2

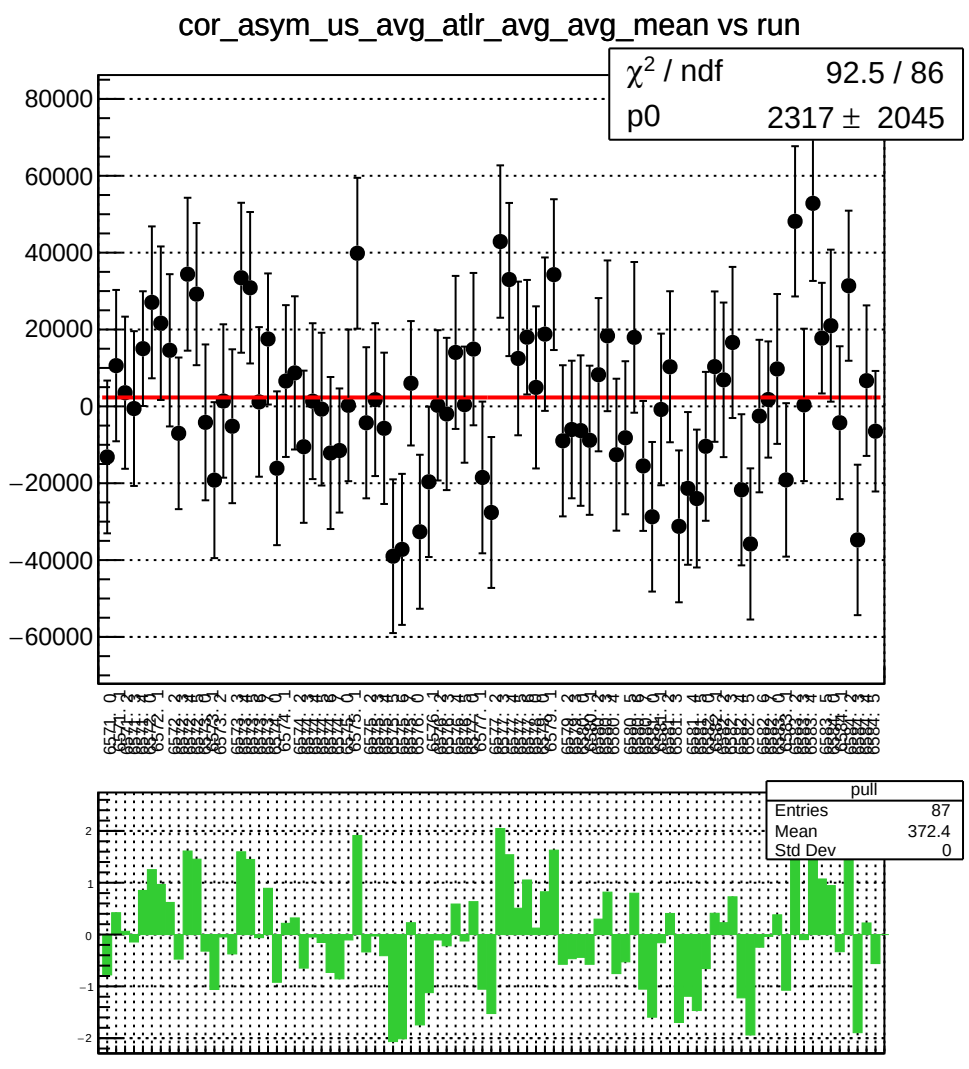

pull1D
Entries 87
Mean −0.006331
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

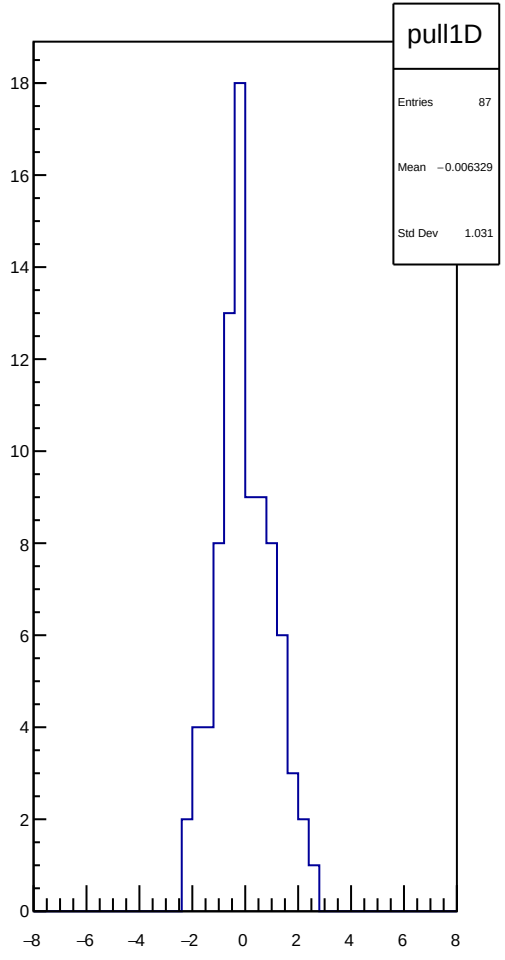

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 243 / 86
p0 1878 ± 1.446
1980
1960
1940
1920
1900
1880
1860
1840
1820

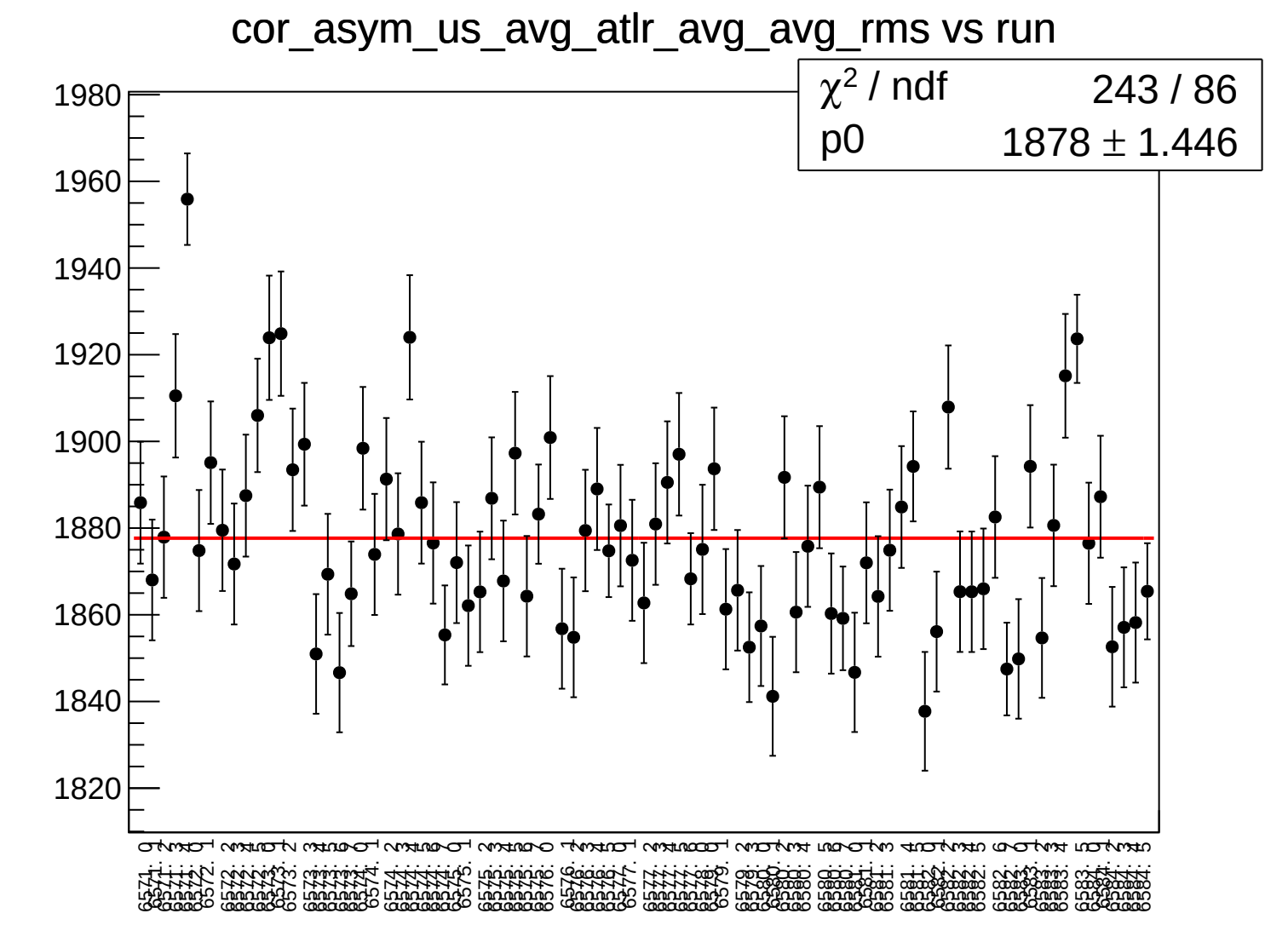

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 97.63 / 86
p0 5003 ± 6528
200
100
0
−100
−200
pull
Entries 87
Mean −795.7
Std Dev 0
2
1
0
−1
−2
−3

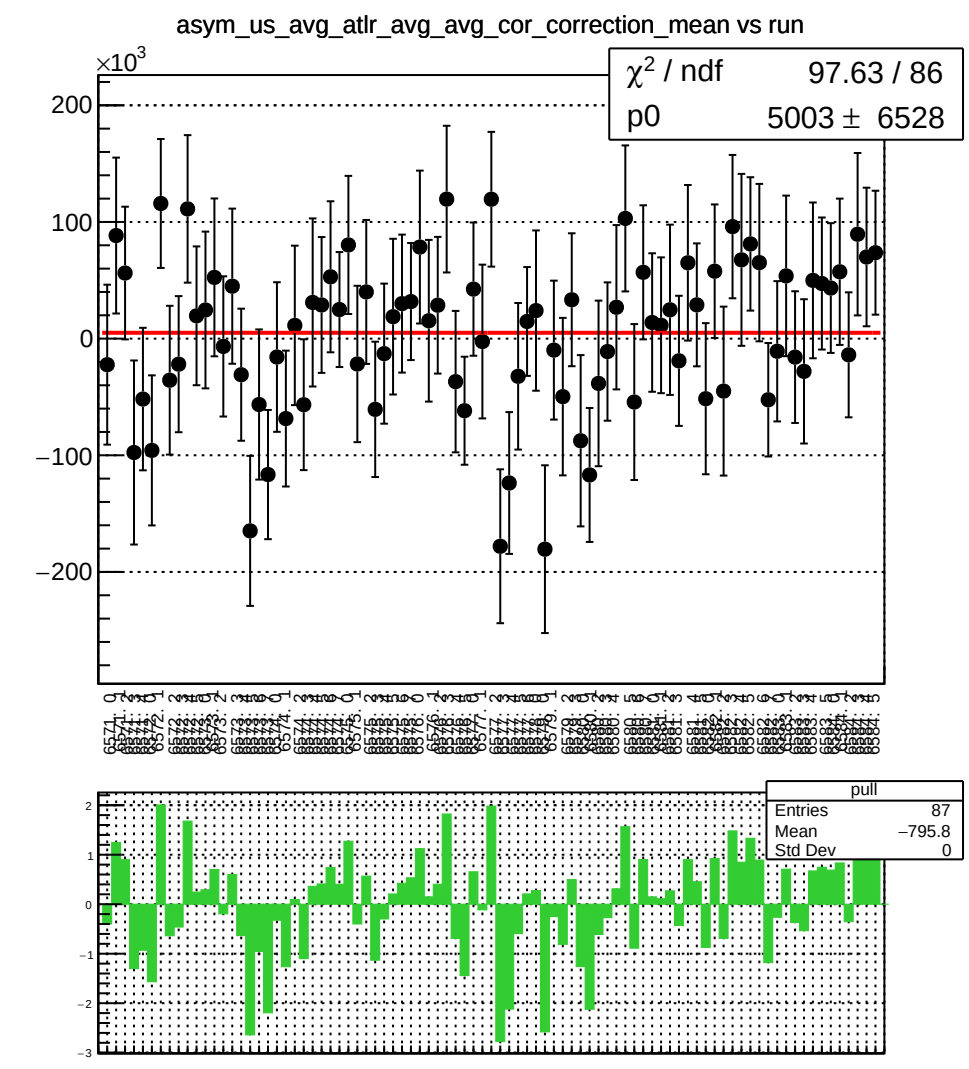

pull1D
Entries 87
Mean −0.005328
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

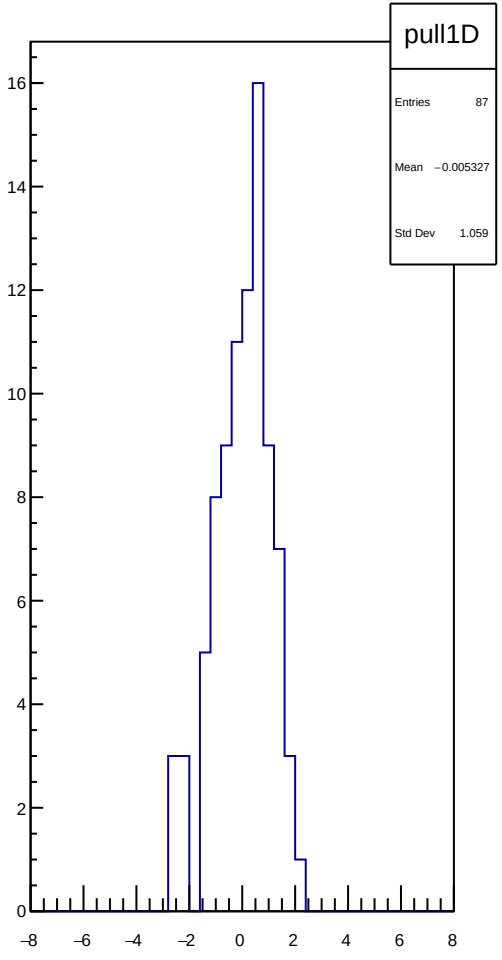

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.358e+04 / 86
p0 5971 ± 4.616
8000
7500
7000
6500
6000
5500
5000

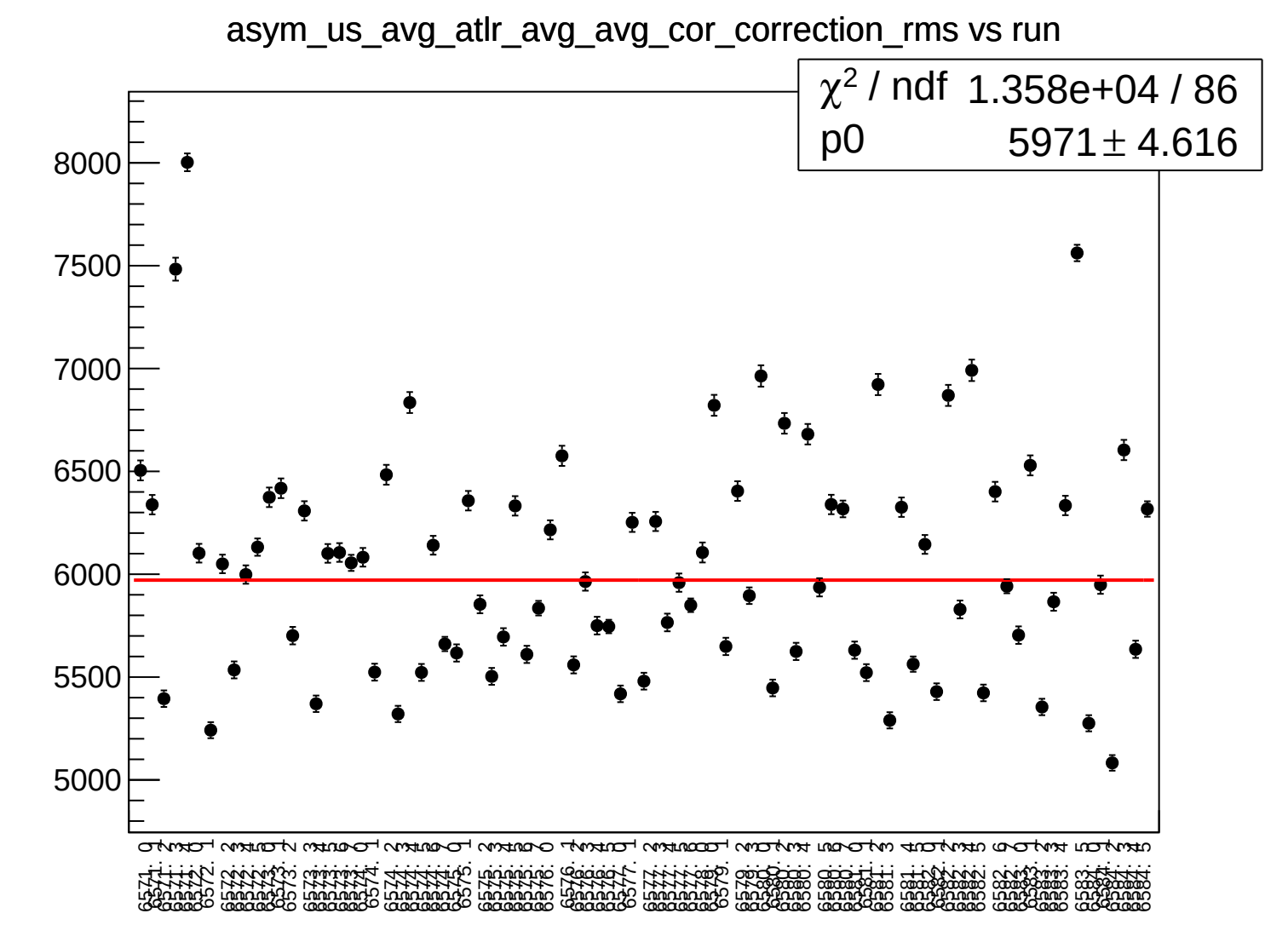

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.5 / 86
p0 2317 ± 2045
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 372.4
Std Dev 0
2
1
0
−1
−2

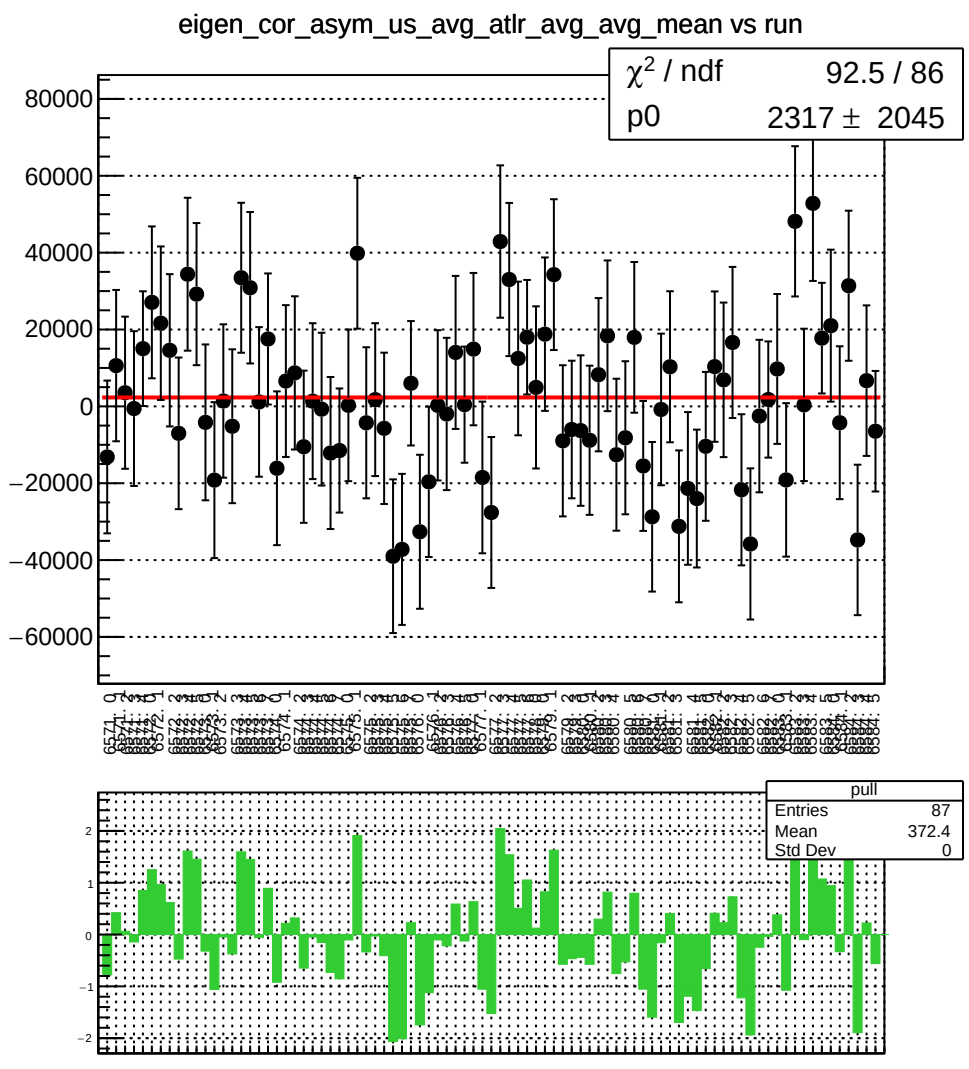

pull1D
Entries 87
Mean −0.006329
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

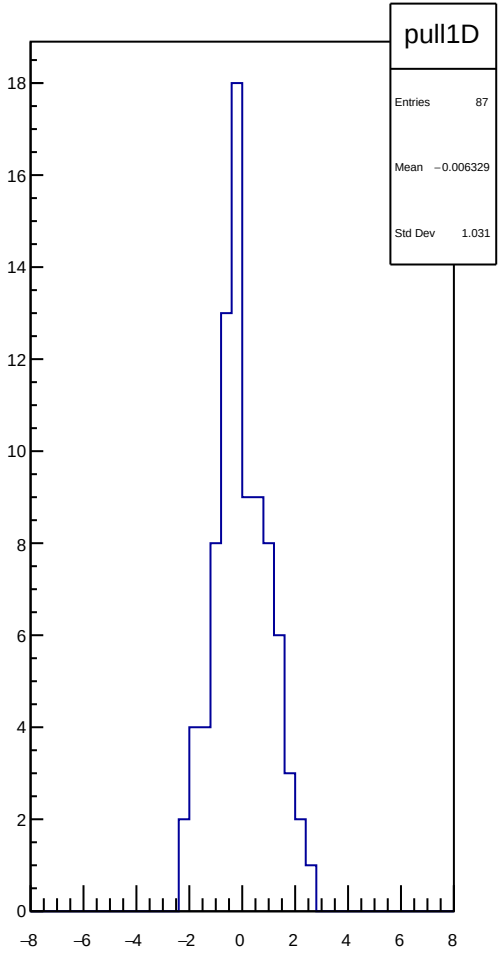

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 243 / 86
p0 1878 ± 1.446
1980
1960
1940
1920
1900
1880
1860
1840
1820

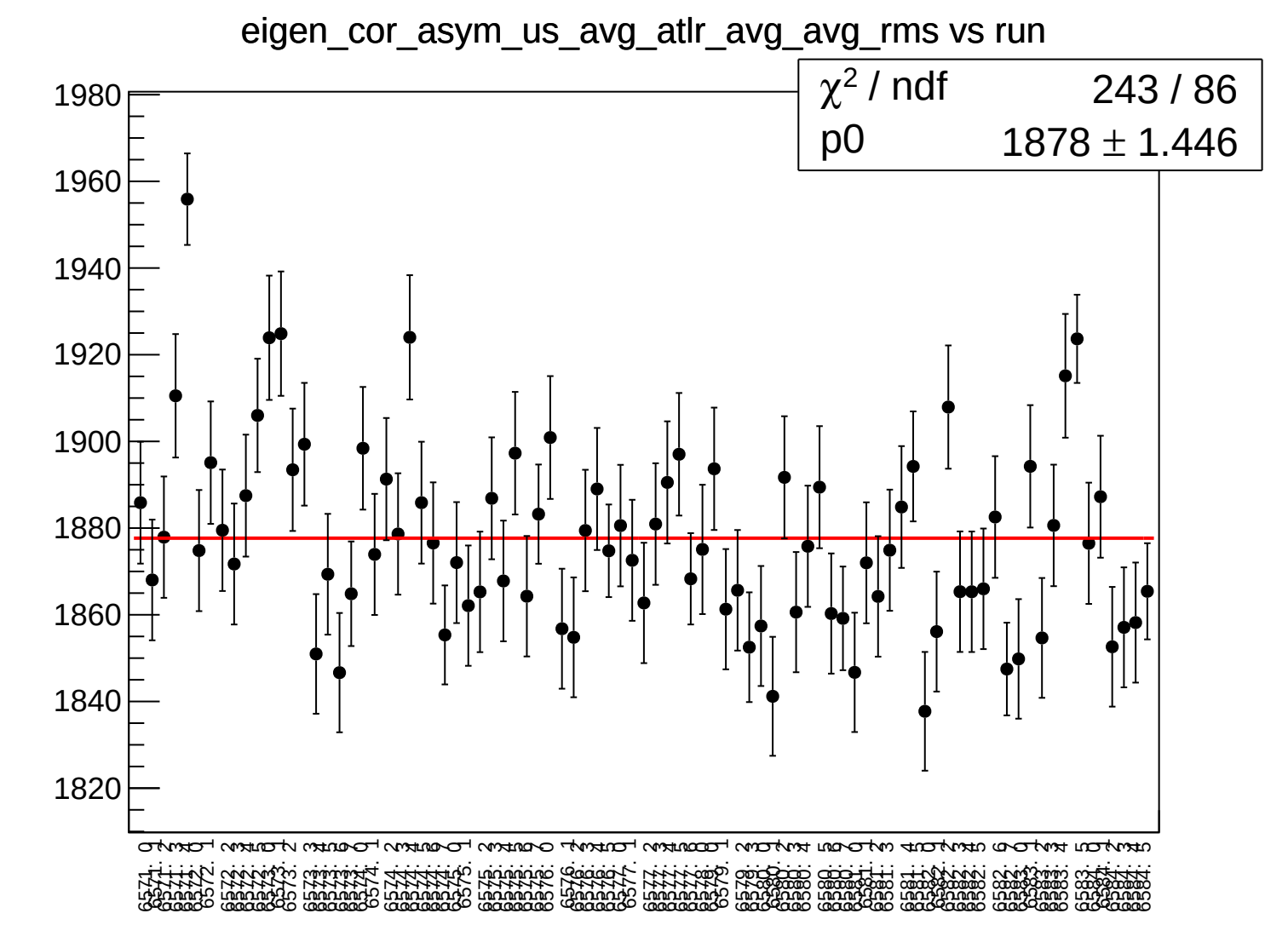

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.63 / 86
p0 5003 ± 6528
200
100
0
−100
−200
pull
Entries 87
Mean −795.8
Std Dev 0
2
1
0
−1
−2
−3

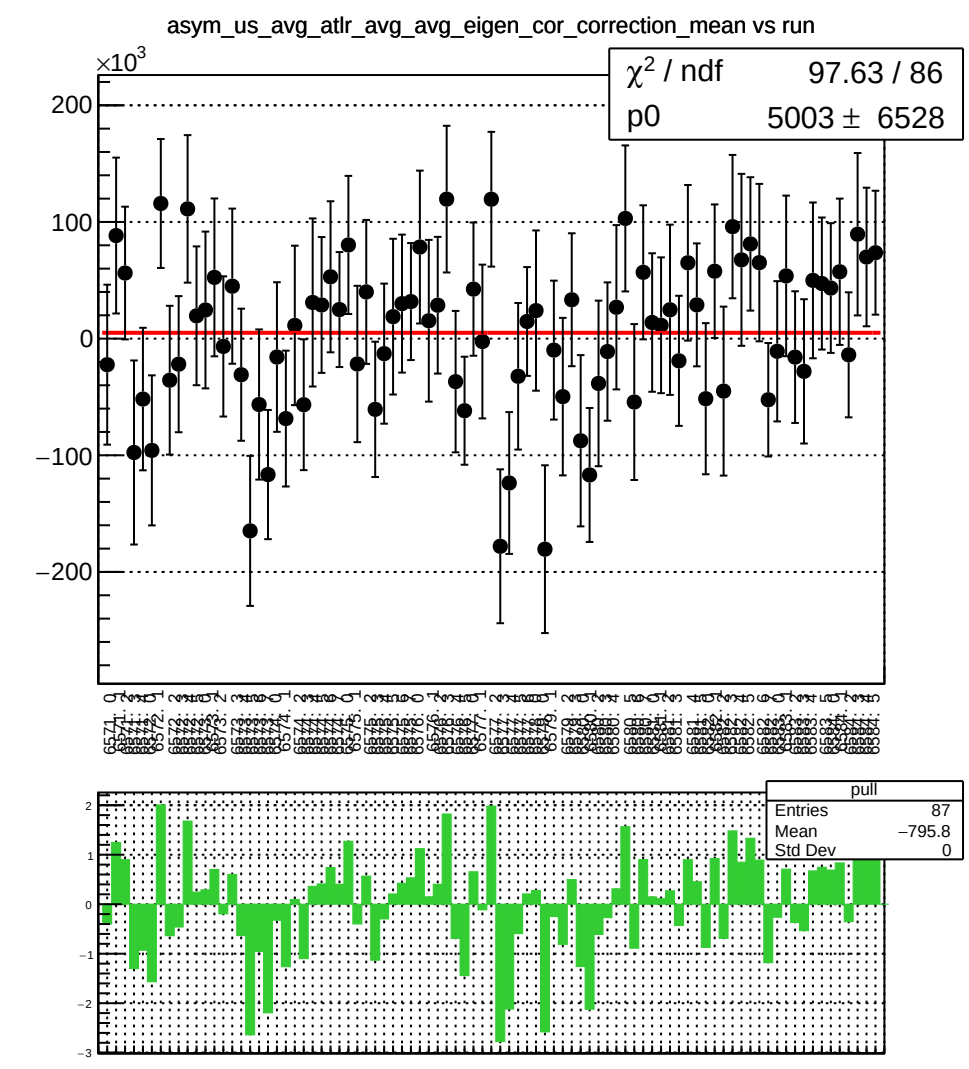

pull1D
Entries 87
Mean −0.005327
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

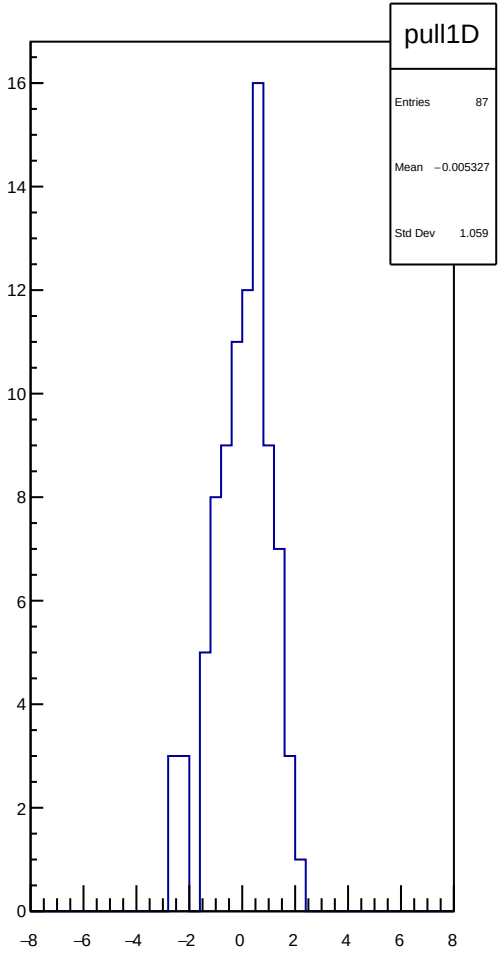

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.358e+04 / 86
p0 5971 ± 4.616
8000
7500
7000
6500
6000
5500
5000

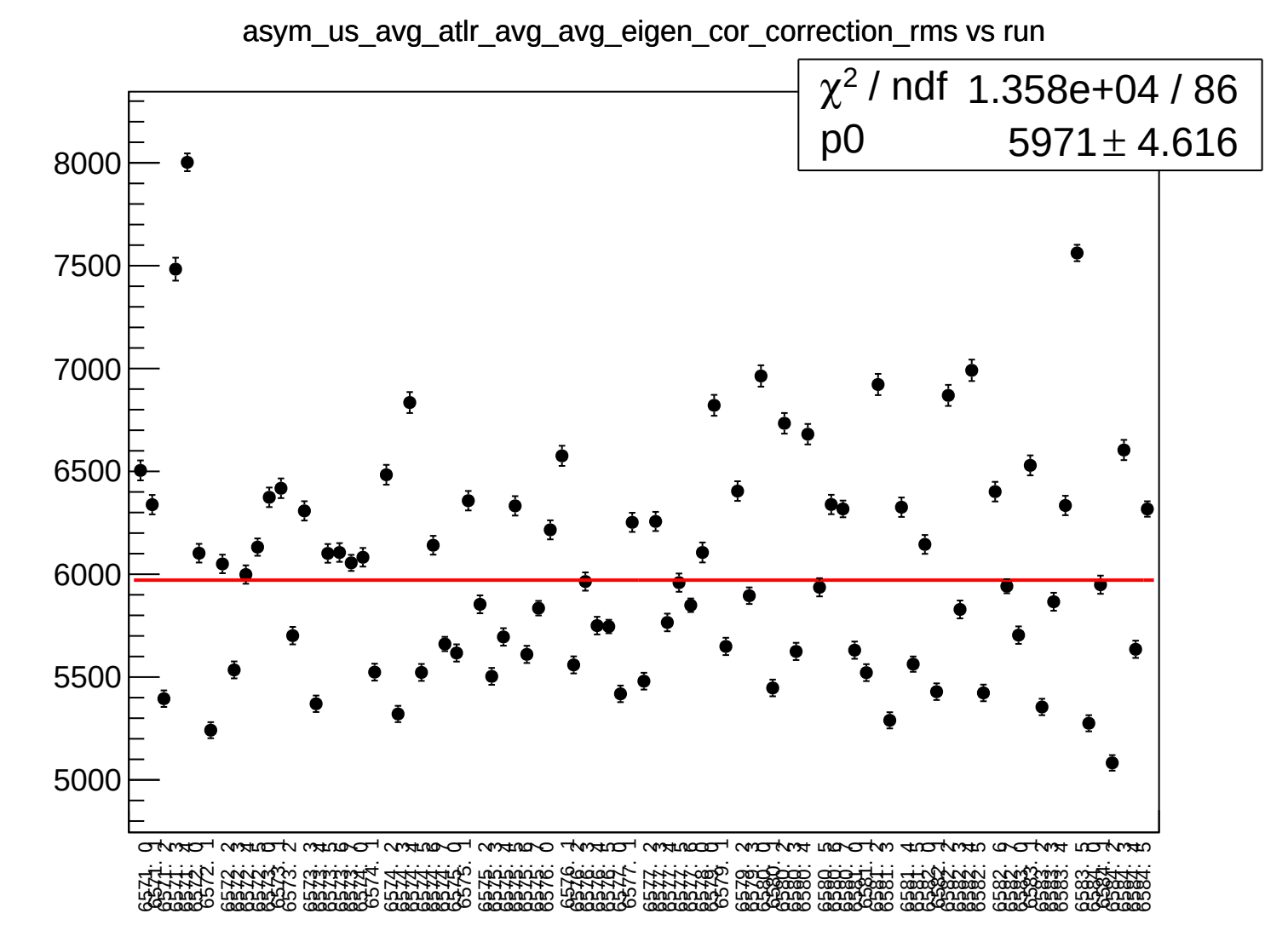

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.5 / 86
p0 2317 ± 2045
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 372.4
Std Dev 0
2
1
0
−1
−2

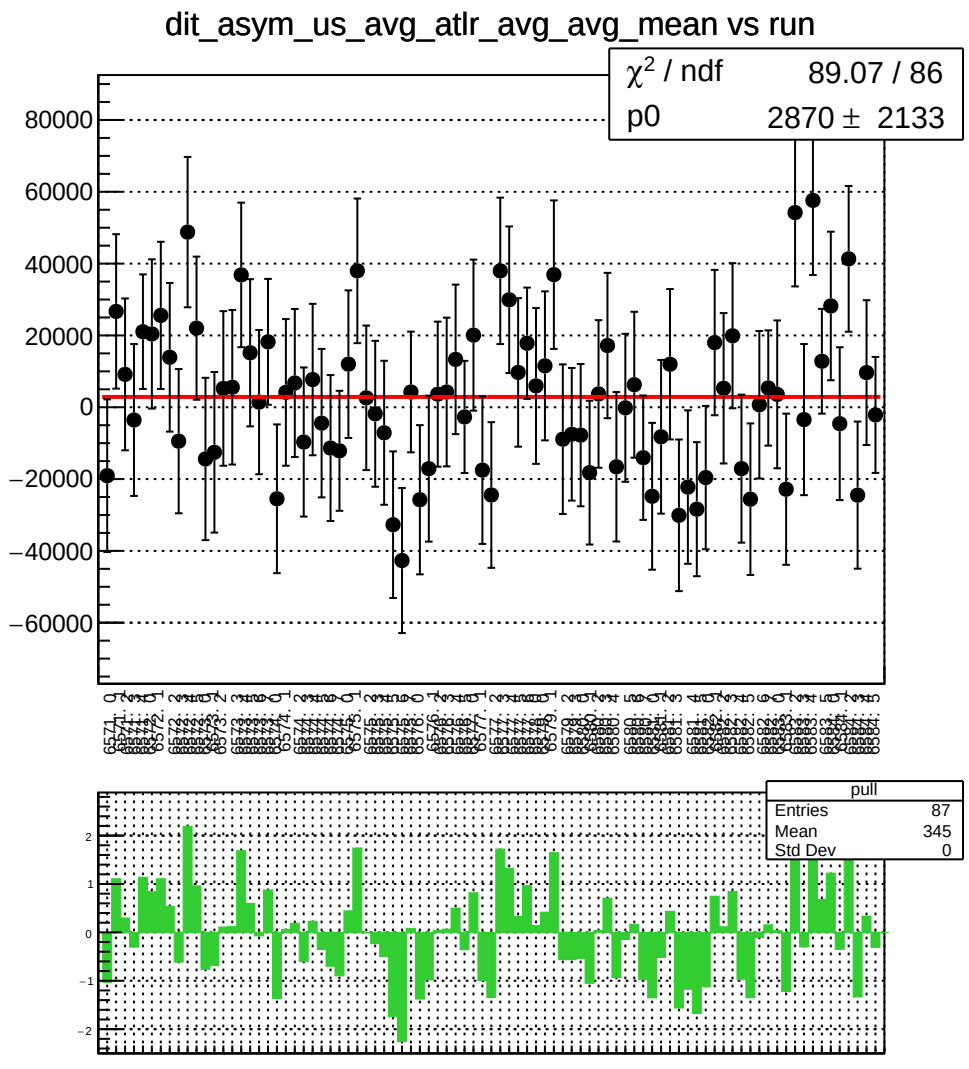

pull1D
Entries 87
Mean −0.006329
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

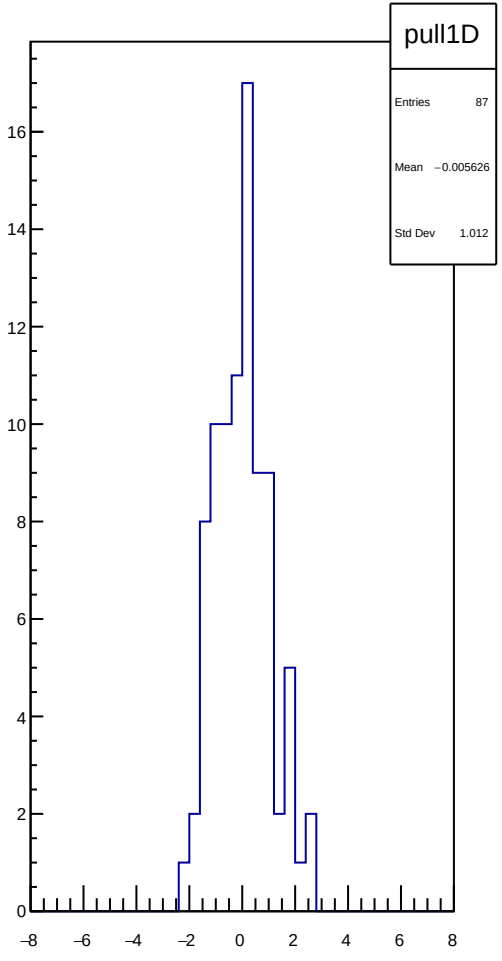

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 243 / 86
p0 1878 ± 1.446
1980
1960
1940
1920
1900
1880
1860
1840
1820

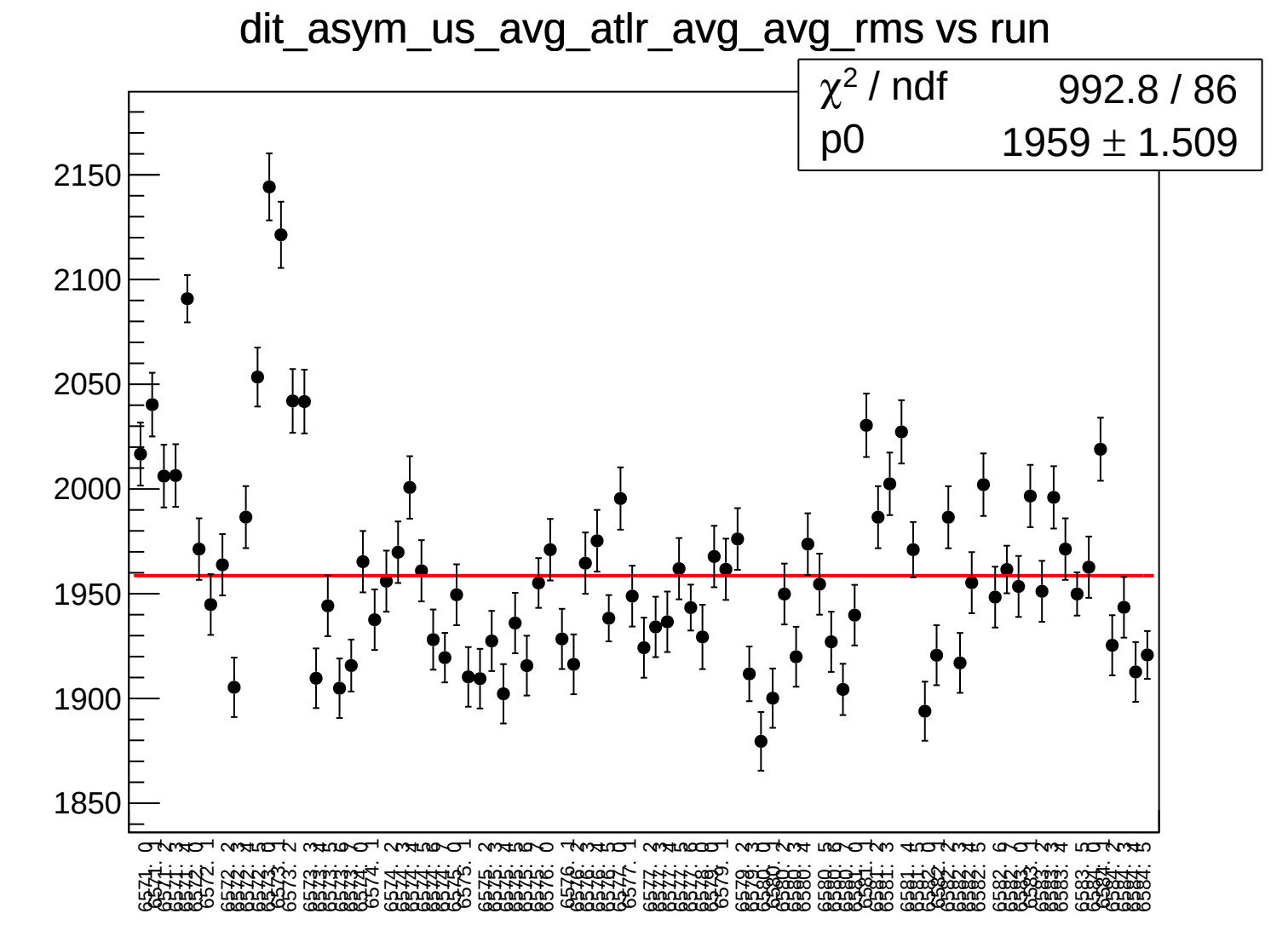

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.63 / 86
p0 5003 ± 6528
200
100
0
−100
−200
pull
Entries 87
Mean −795.8
Std Dev 0
2
1
0
−1
−2
−3

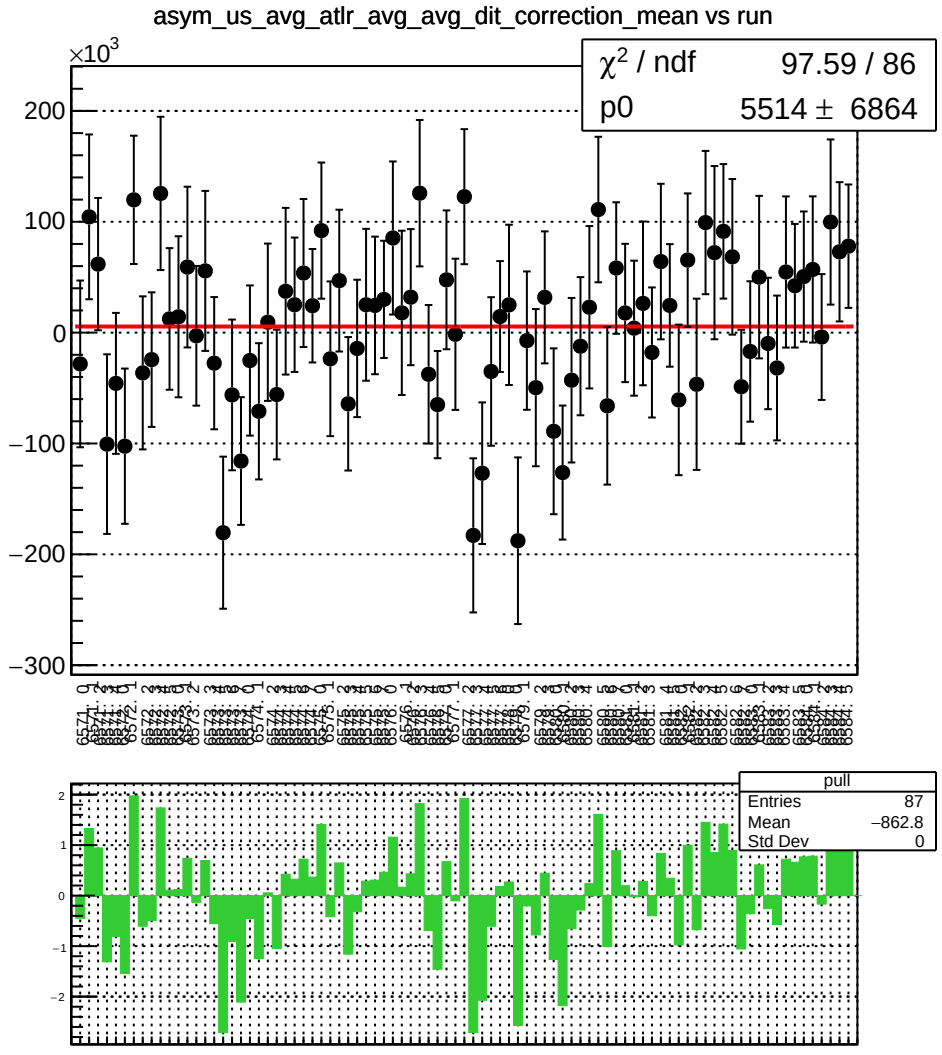

pull1D
Entries 87
Mean −0.005327
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

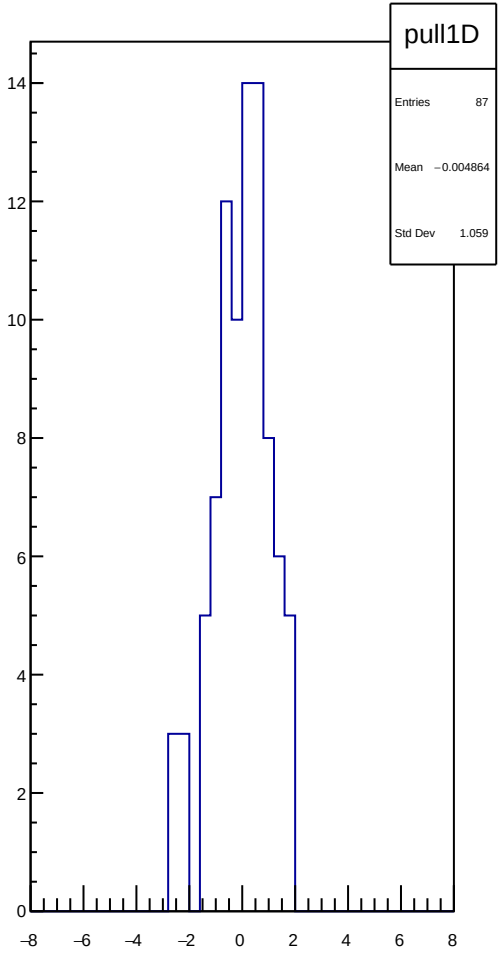

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.358e+04 / 86
p0 5971 ± 4.616
8000
7500
7000
6500
6000
5500
5000

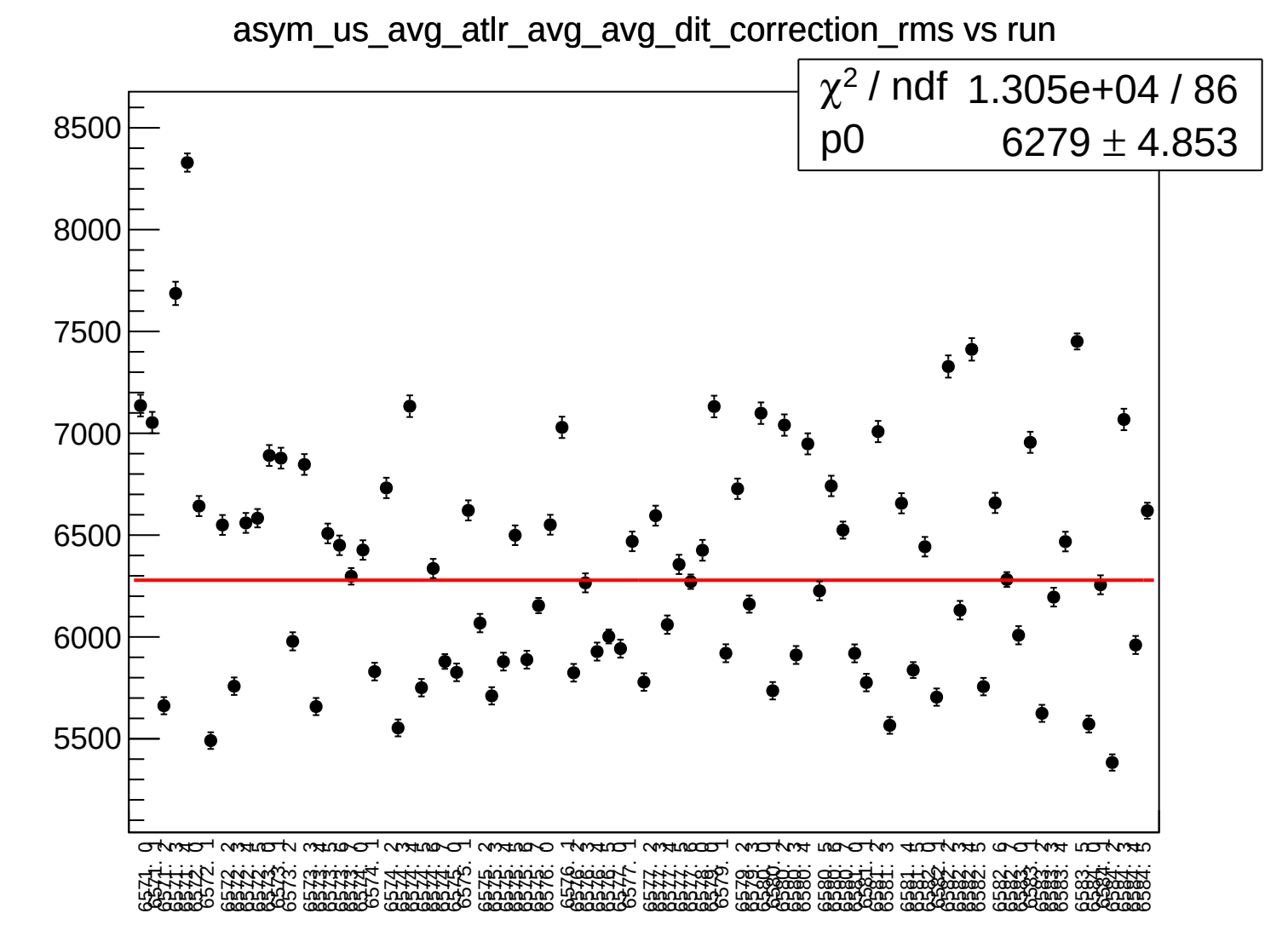

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 89.07 / 86
p0 2870 ± 2133
pull
Entries 87
Mean 345
Std Dev 0

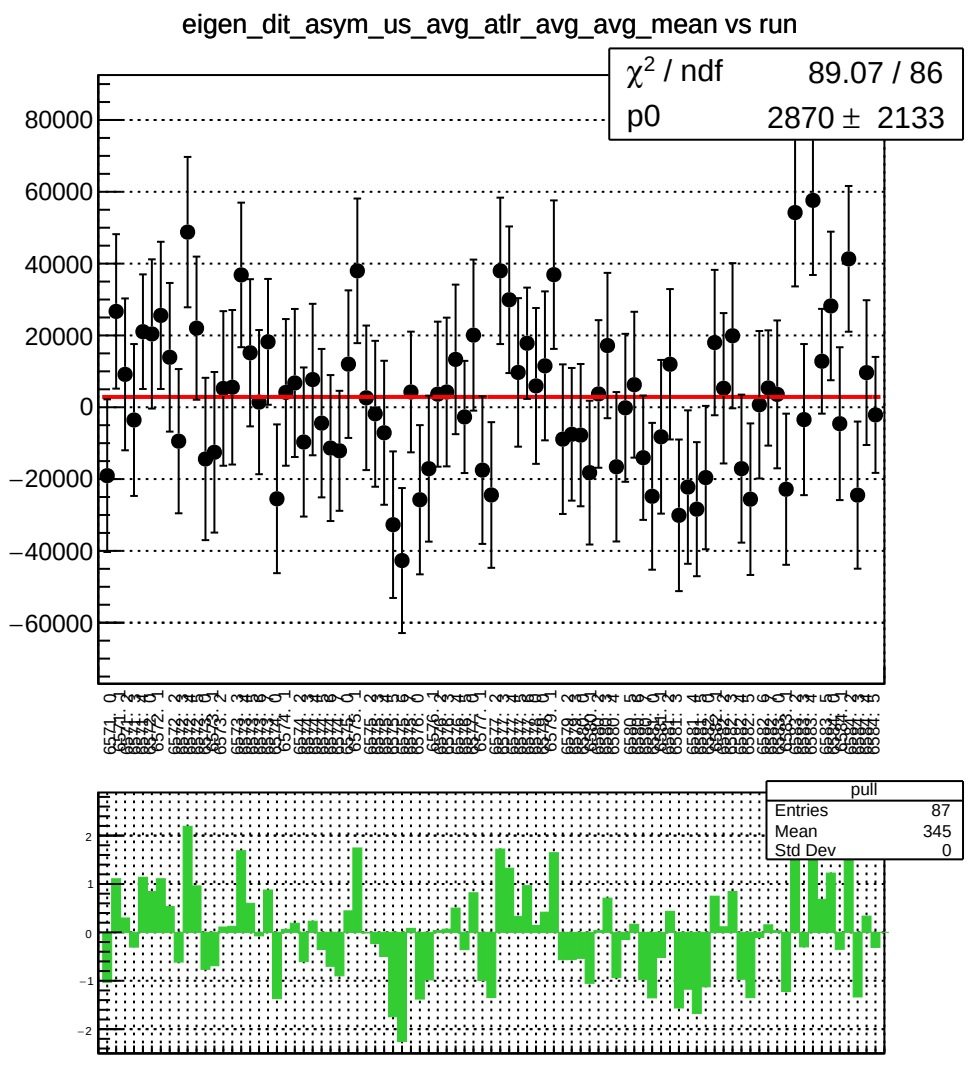

pull1D
Entries 87
Mean −0.005626
Std Dev 1.012

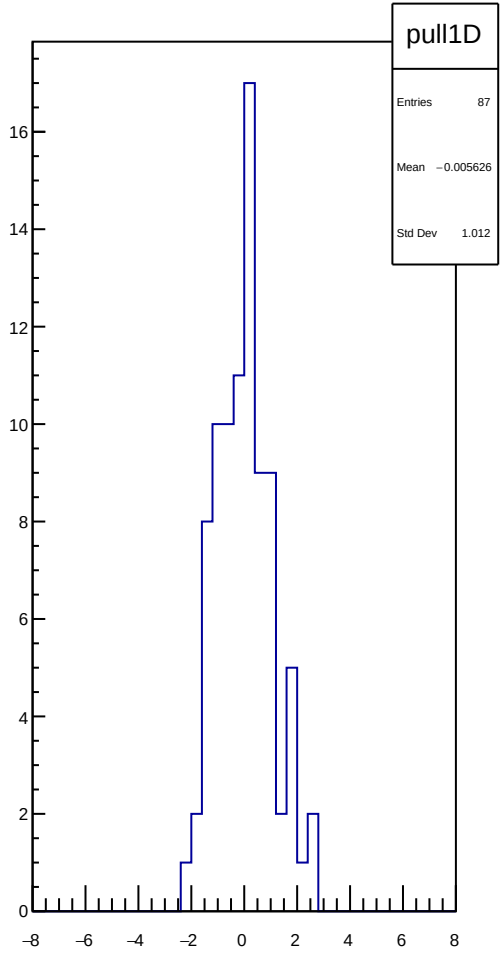

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 992.8 / 86
p0 1959 ± 1.509
2150
2100
2050
2000
1950
1900
1850

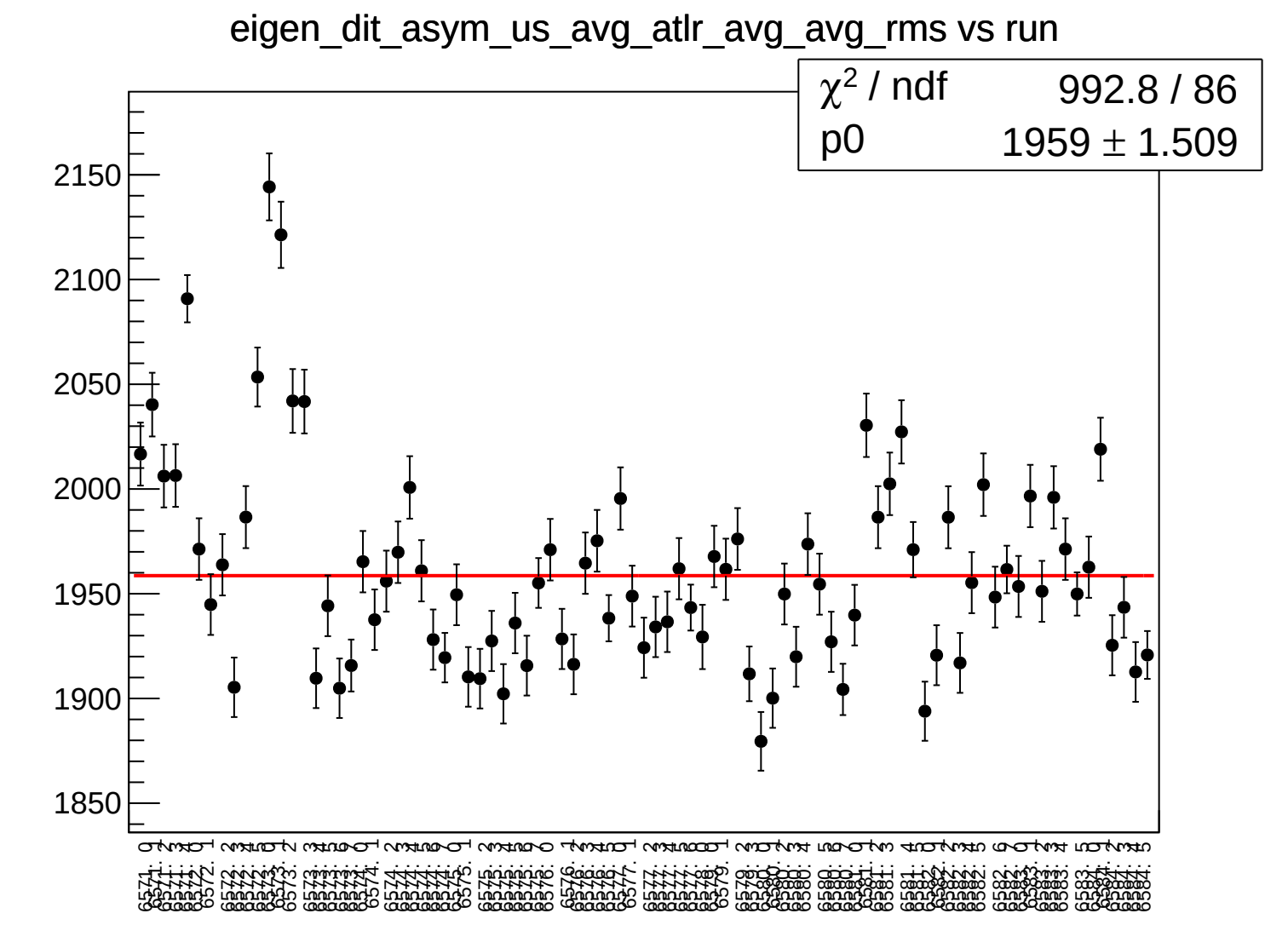

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.59 / 86
p0 5514 ± 6864
pull
Entries 87
Mean −862.8
Std Dev 0

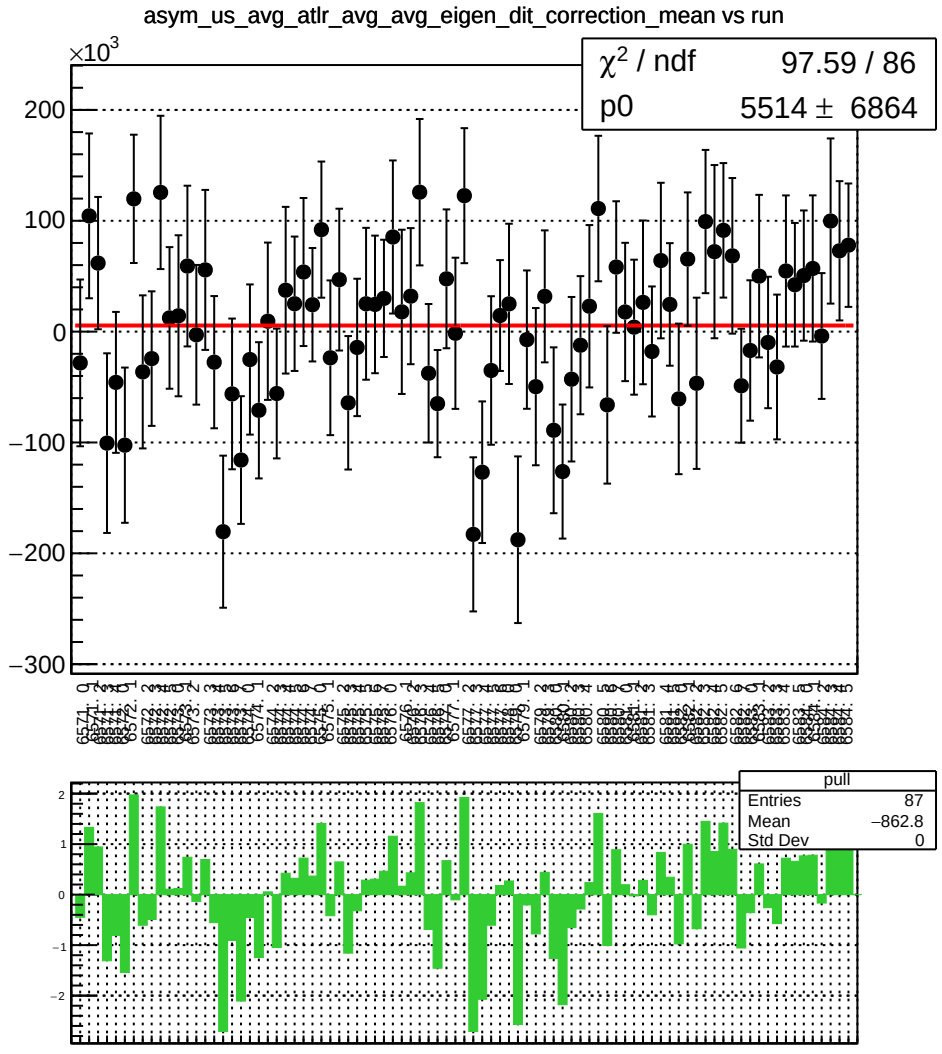

pull1D
Entries 87
Mean −0.004864
Std Dev 1.059

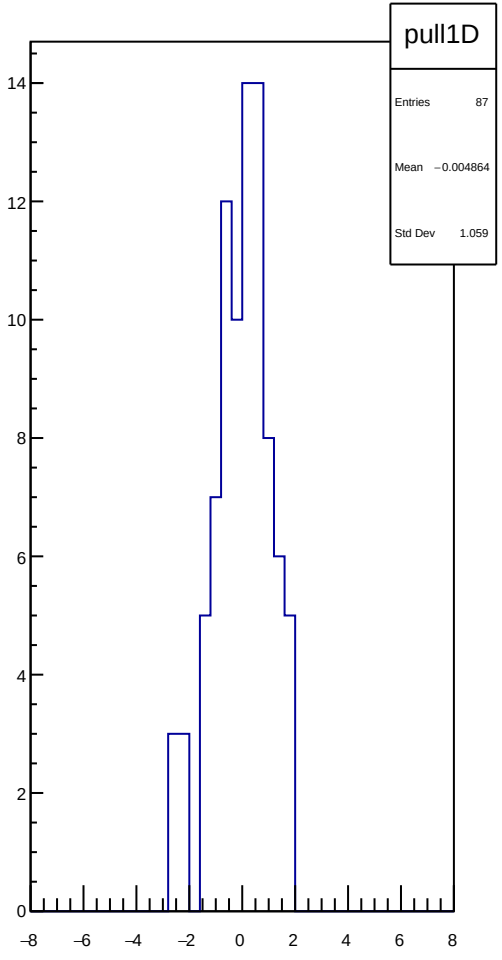

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.305e+04 / 86
p0 6279 ± 4.853
8500
8000
7500
7000
6500
6000
5500

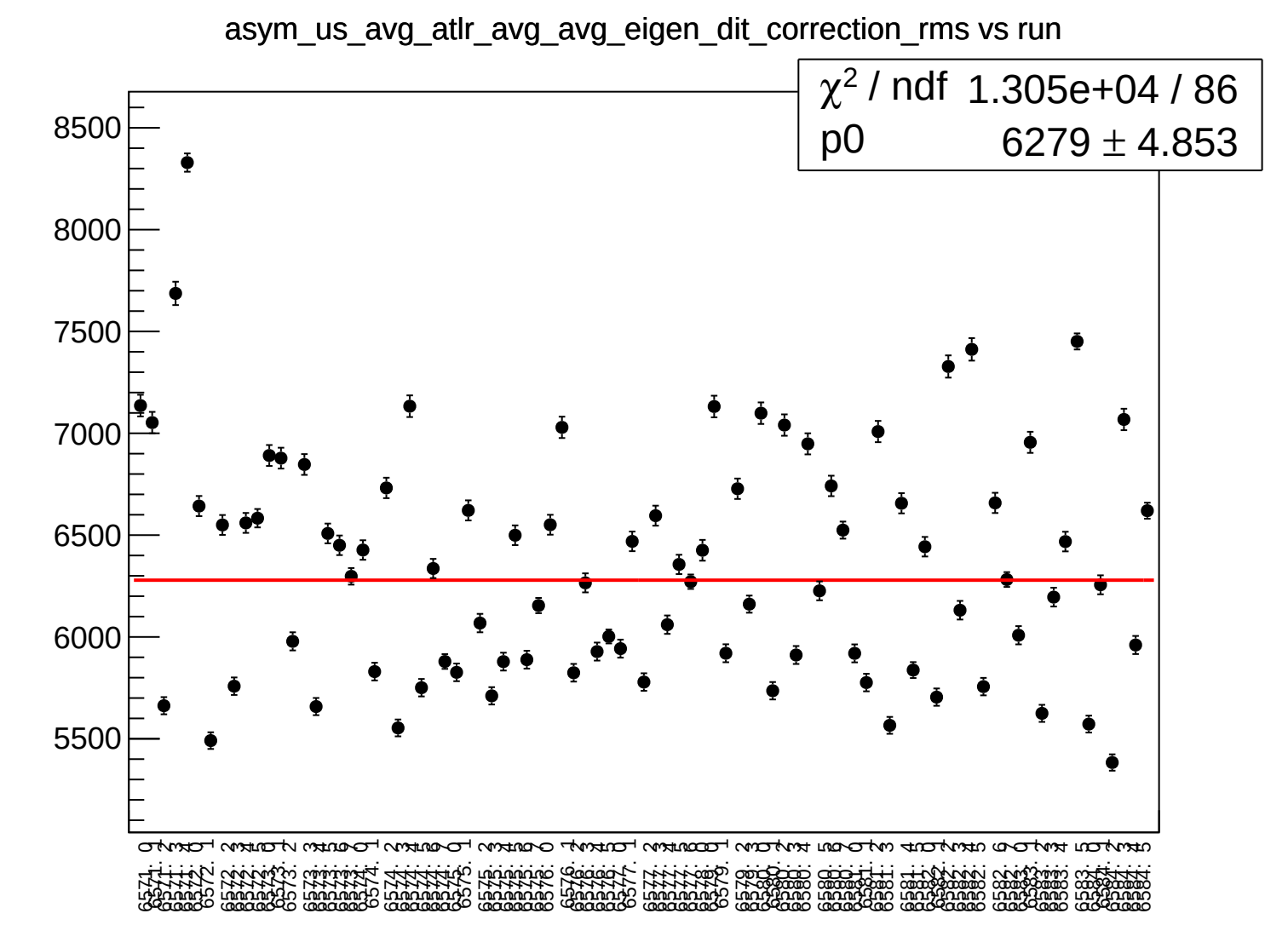

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 89.07 / 86
p0 2870 ± 2133
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 345
Std Dev 0
2
1
0
−1
−2

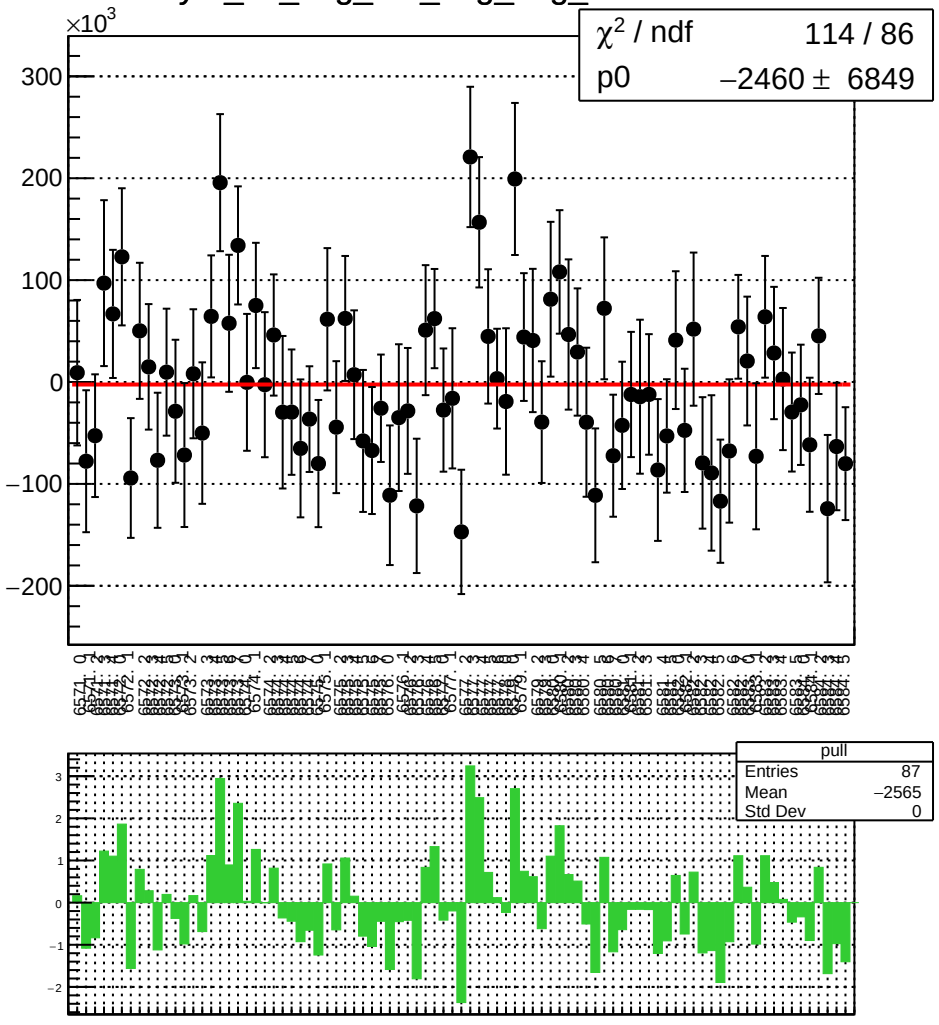

pull1D
Entries 87
Mean −0.005626
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

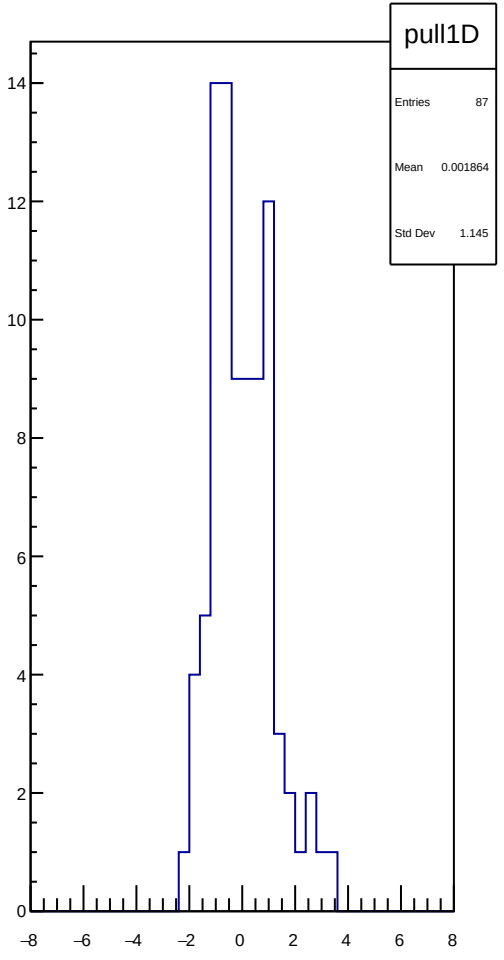

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 992.8 / 86
p0 1959 ± 1.509
2150
2100
2050
2000
1950
1900
1850

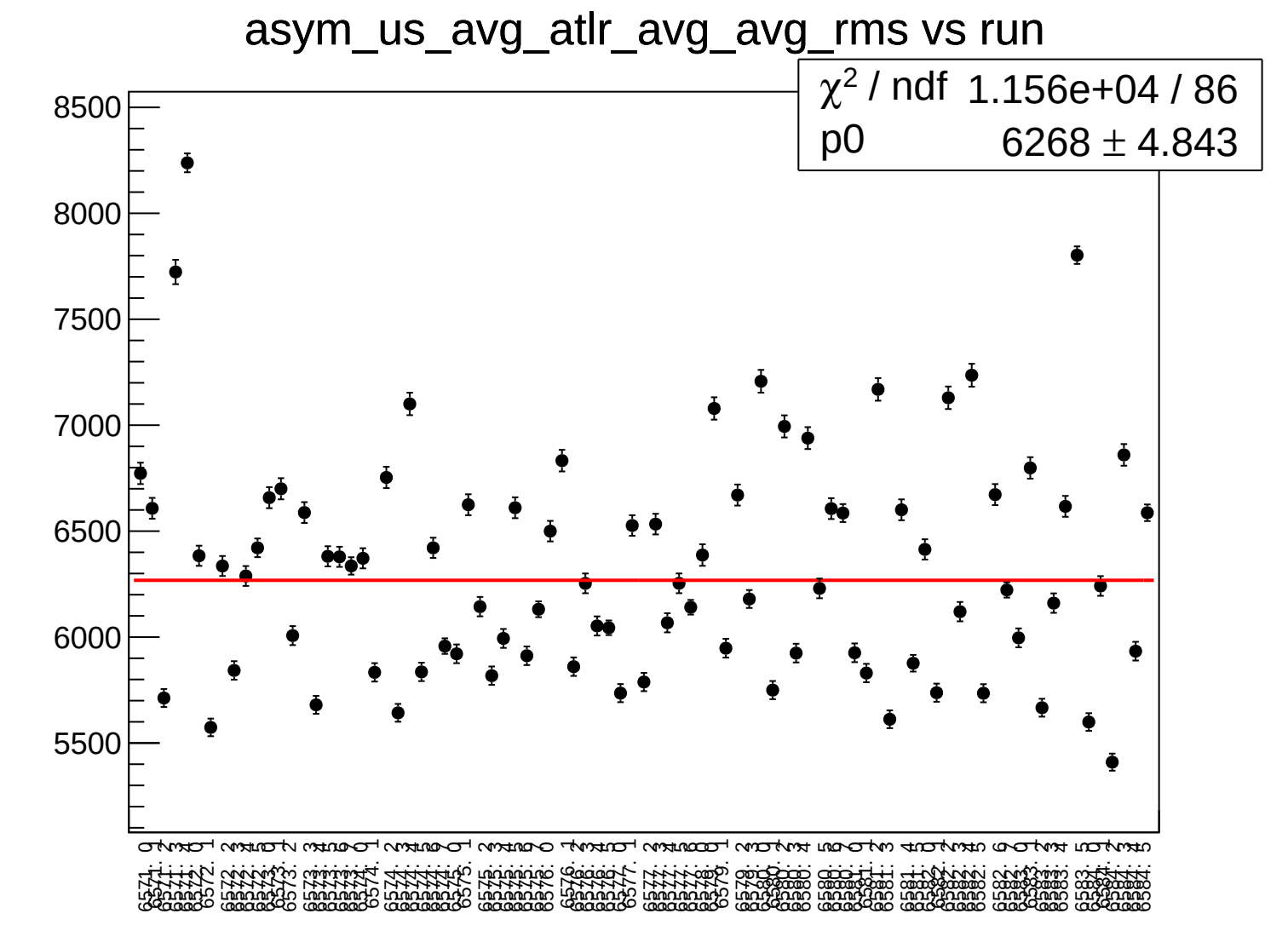

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.59 / 86
p0 5514 ± 6864
pull
Entries 87
Mean −862.8
Std Dev 0

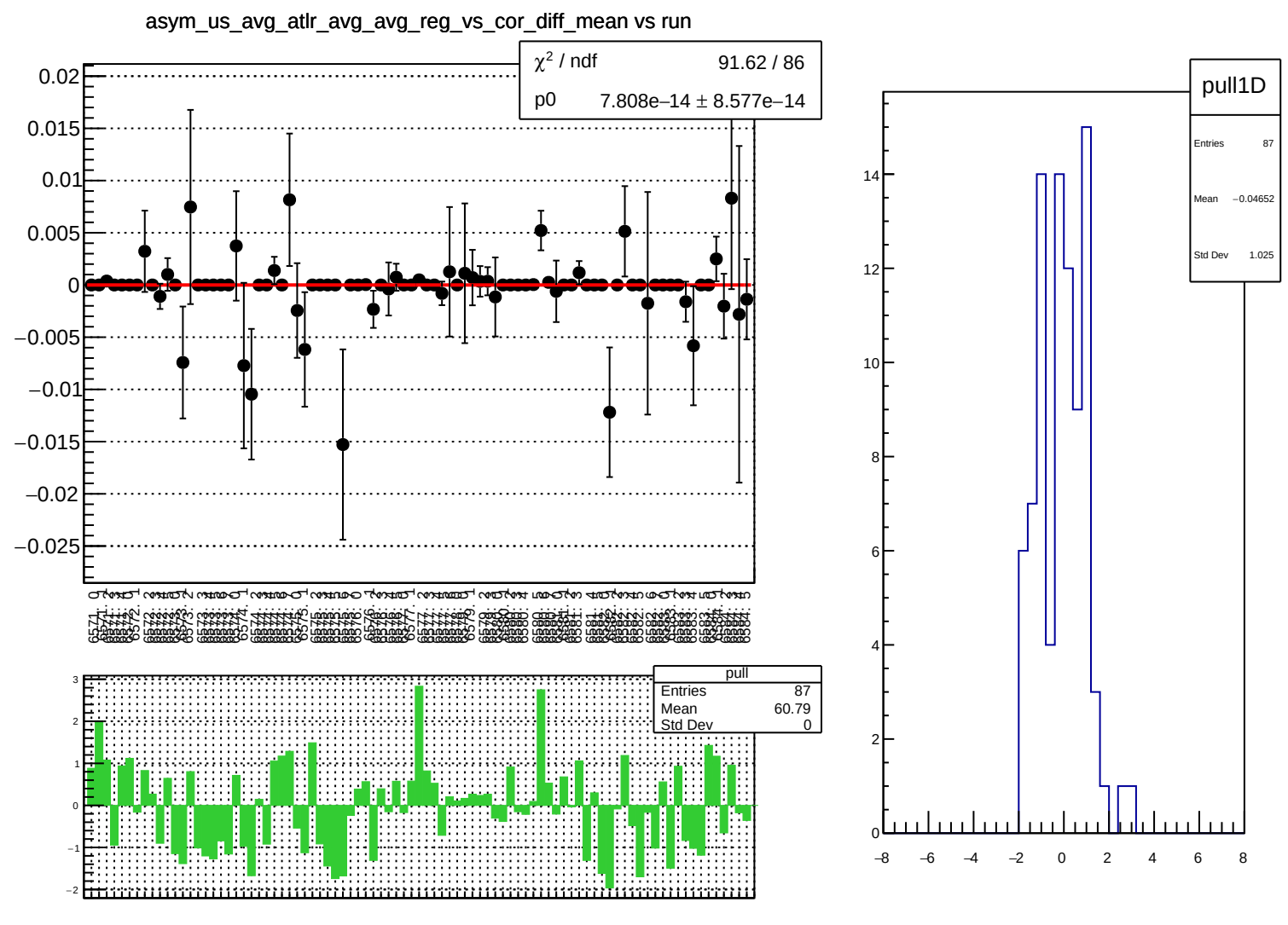

pull1D
Entries 87
Mean −0.004864
Std Dev 1.059

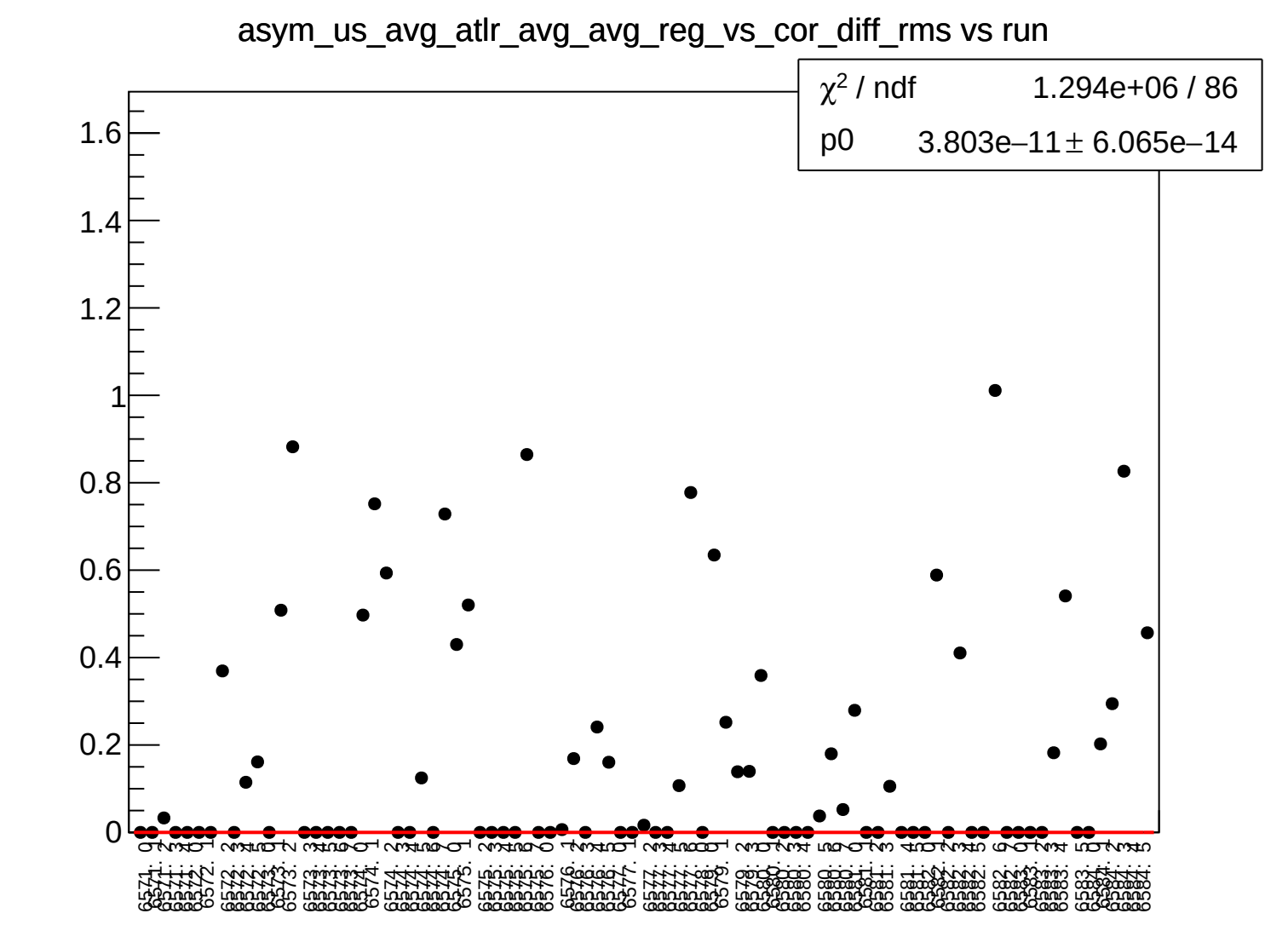

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.305e+04 / 86
p0 6279 ± 4.853
8500
8000
7500
7000
6500
6000
5500

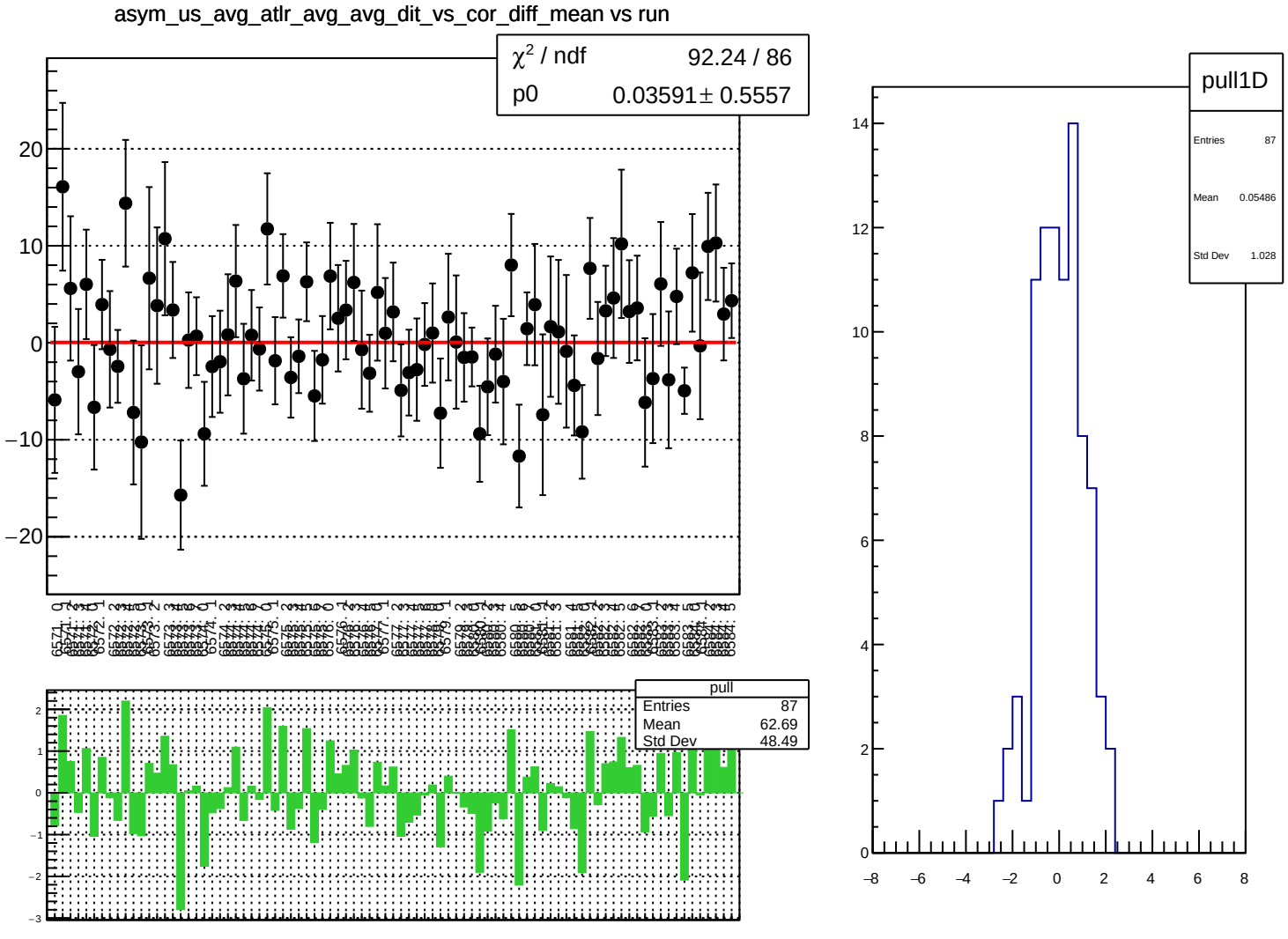

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 114 / 86
p0 −2460 ± 6849
300
200
100
0
−100
−200
pull
Entries 87
Mean −2565
Std Dev 0
3
2
1
0
−1
−2

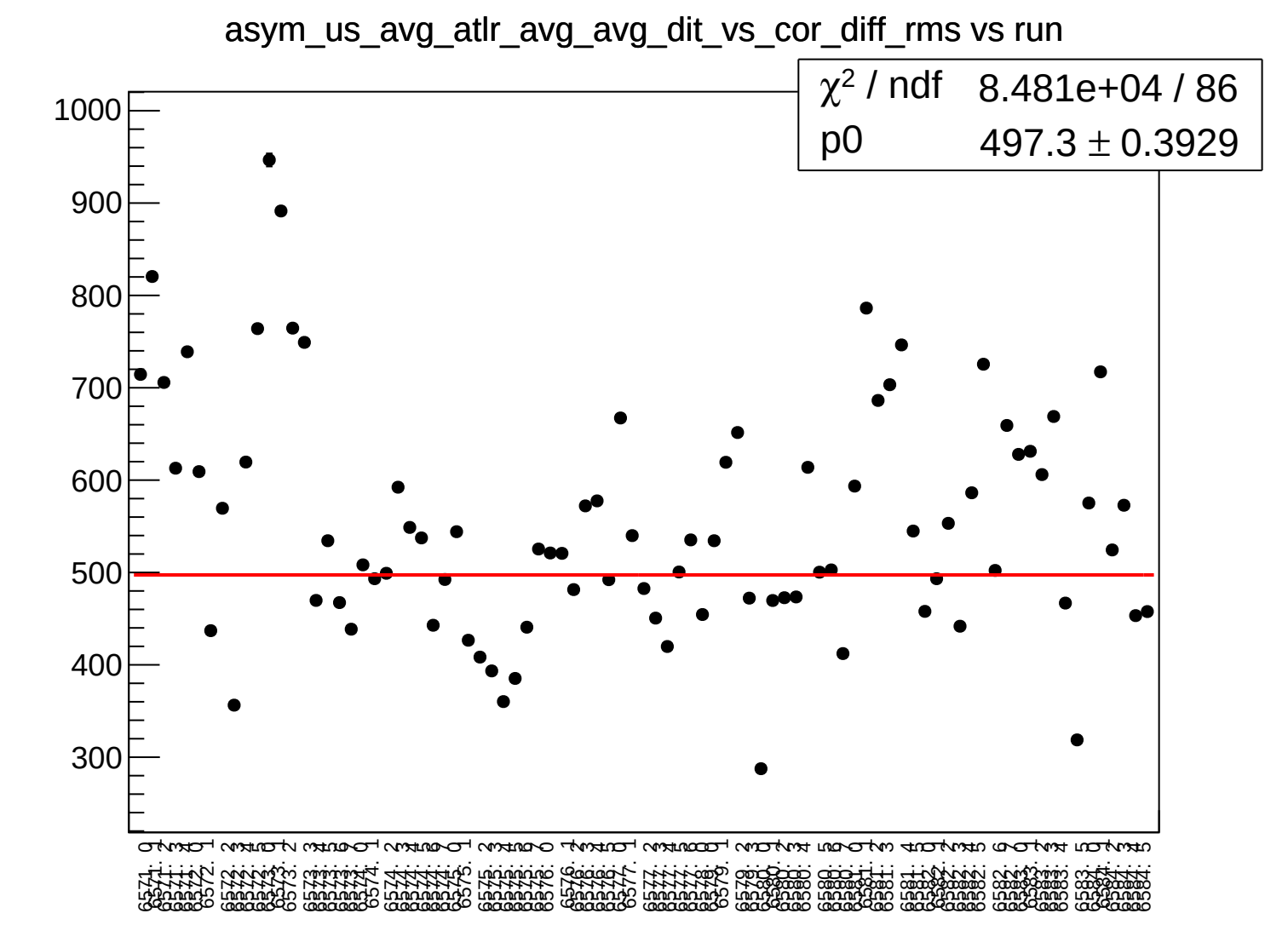

pull1D
Entries 87
Mean 0.001864
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

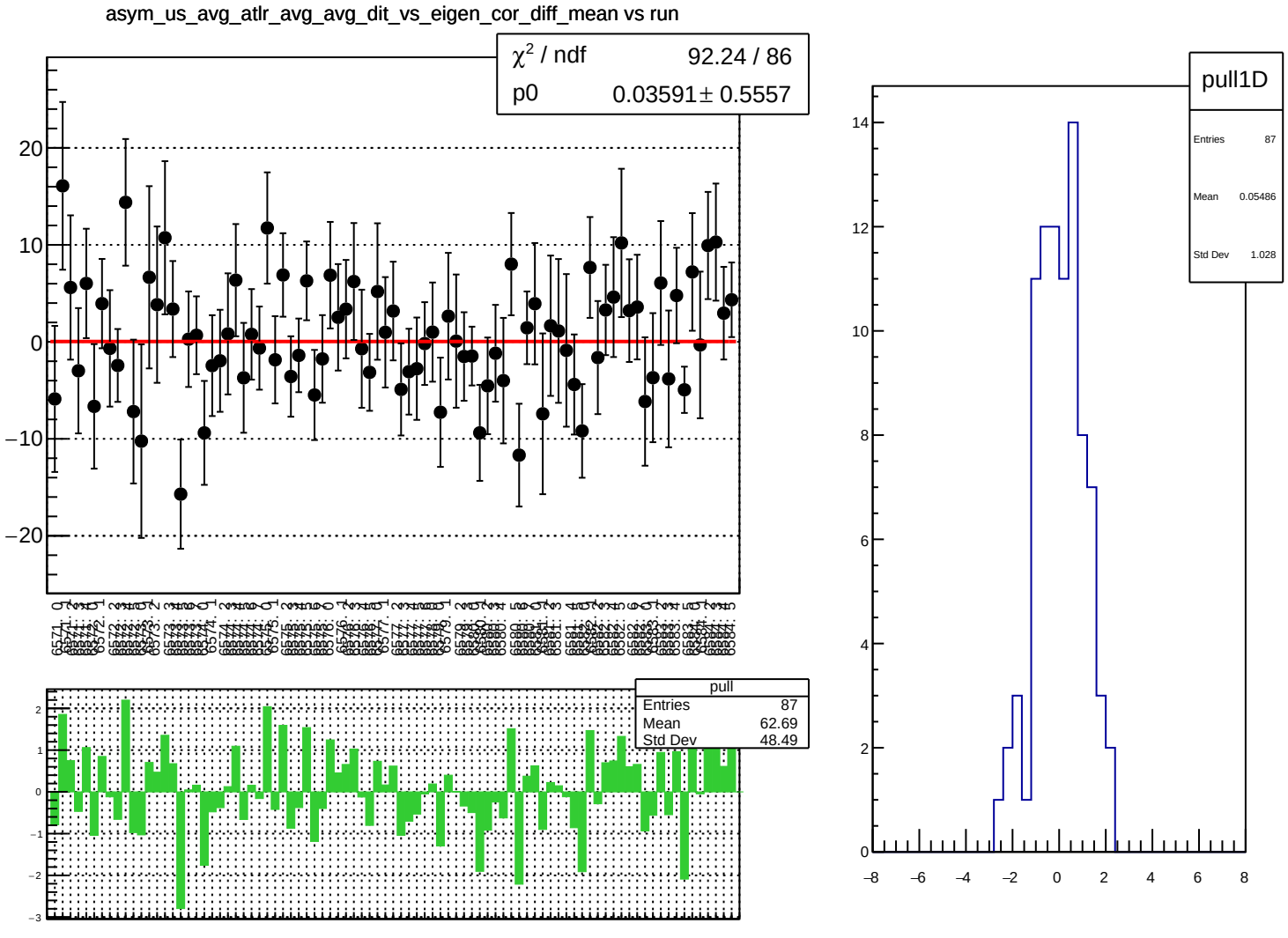

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1.156e+04 / 86
p0 6268 ± 4.843
8500
8000
7500
7000
6500
6000
5500

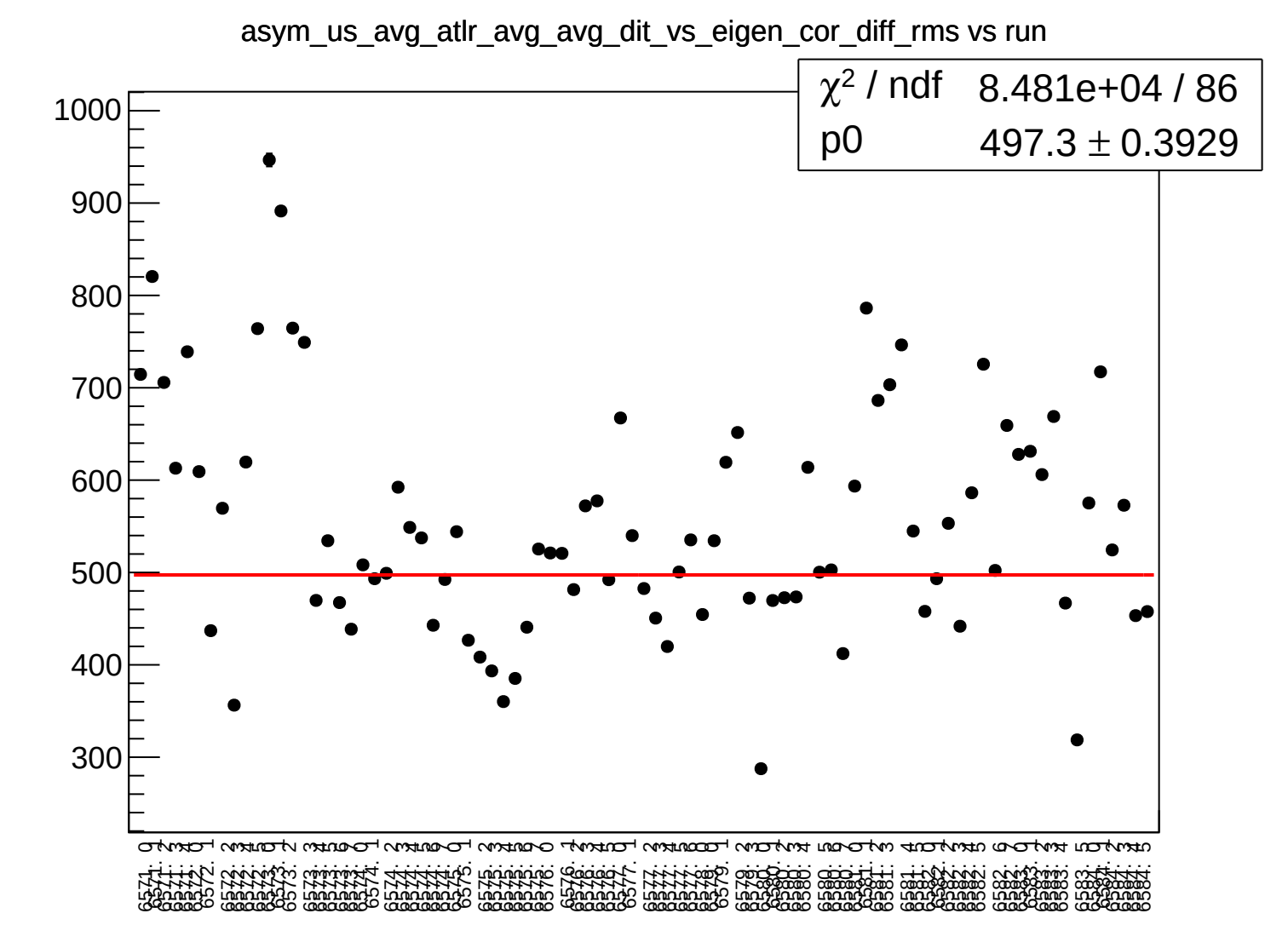

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.62 / 86
p0 7.808e−14 ± 8.577e−14
pull
Entries 87
Mean 60.79
Std Dev 0
pull1D
Entries 87
Mean −0.04652
Std Dev 1.025

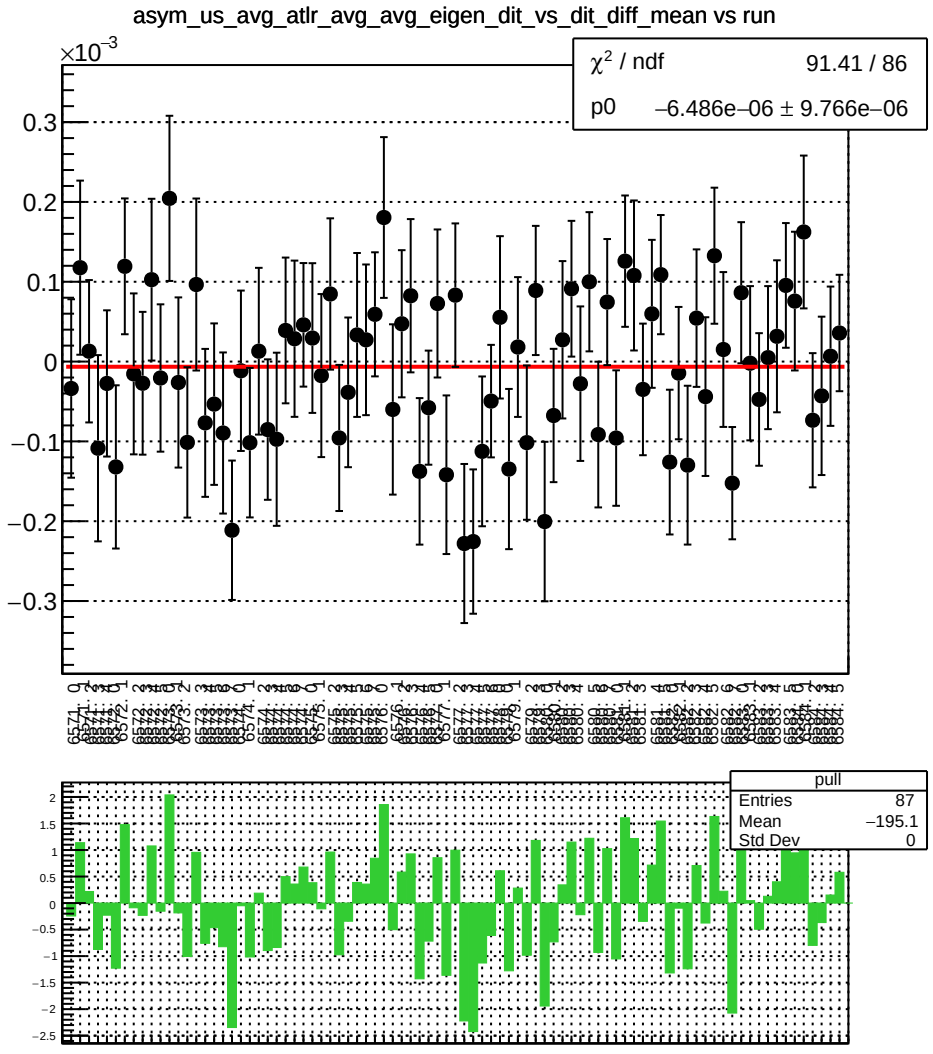

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.294e+06 / 86
p0 3.803e−11 ± 6.065e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

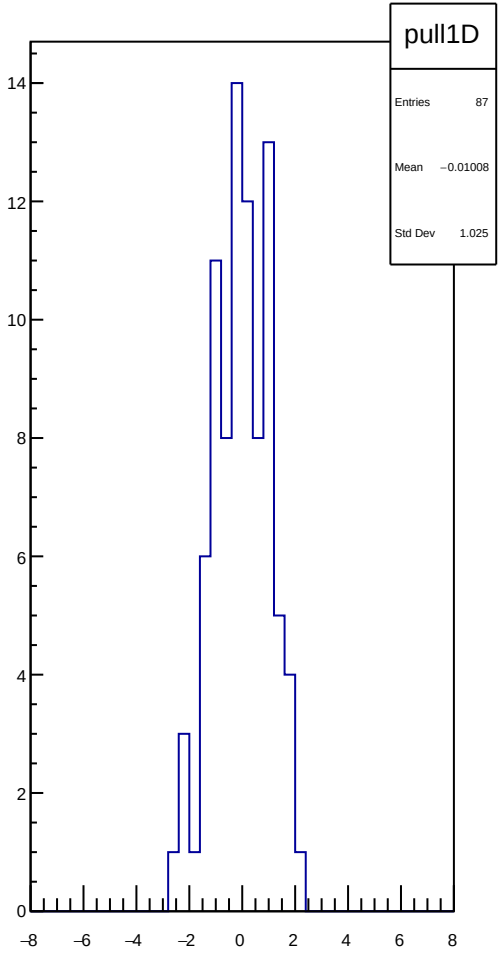

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.24 / 86
p0 0.03591 ± 0.5557
pull
Entries 87
Mean 62.69
Std Dev 48.49
pull1D
Entries 87
Mean 0.05486
Std Dev 1.028

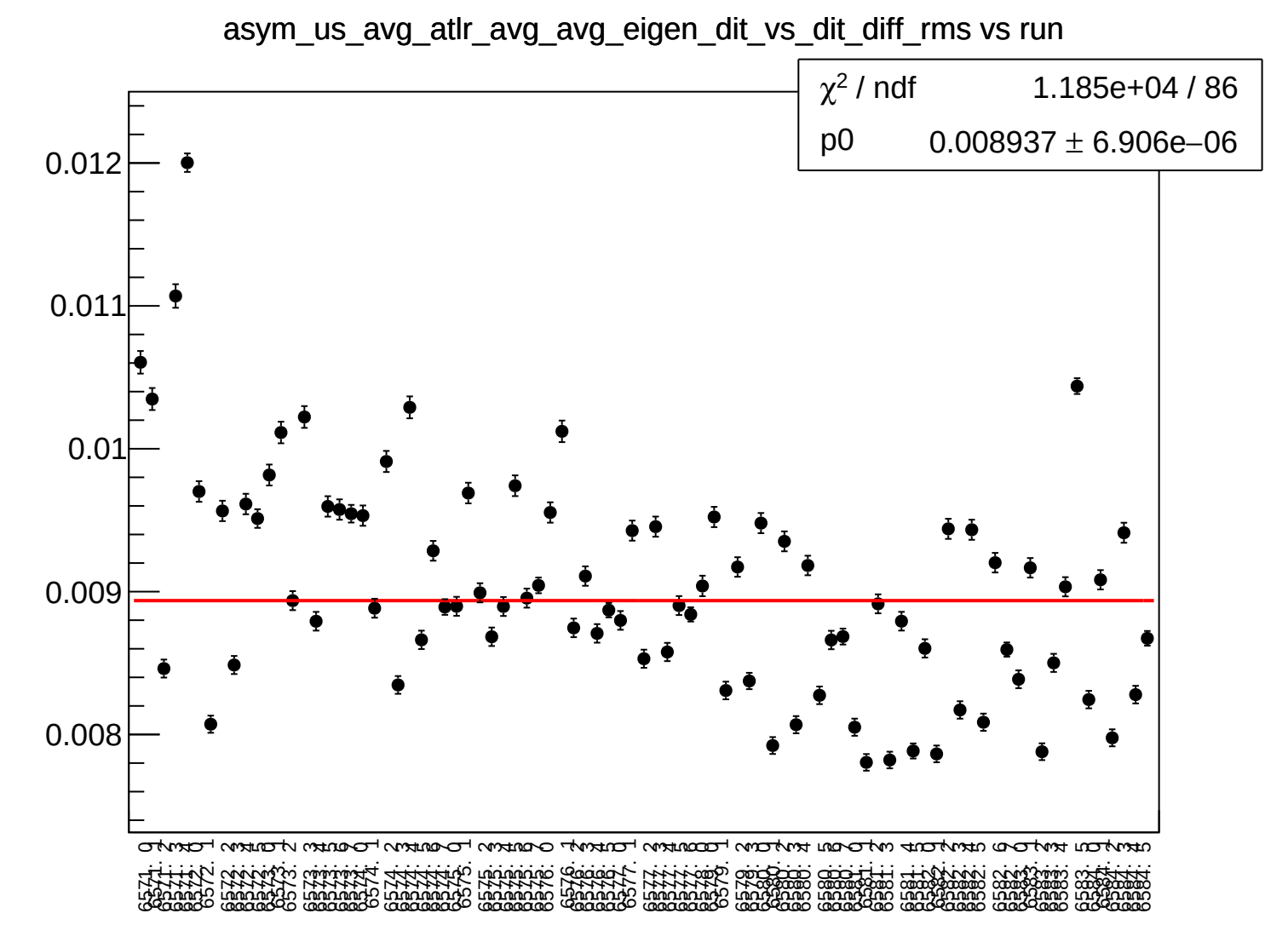

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.481e+04 / 86
p0 497.3 ± 0.3929
1000
900
800
700
600
500
400
300

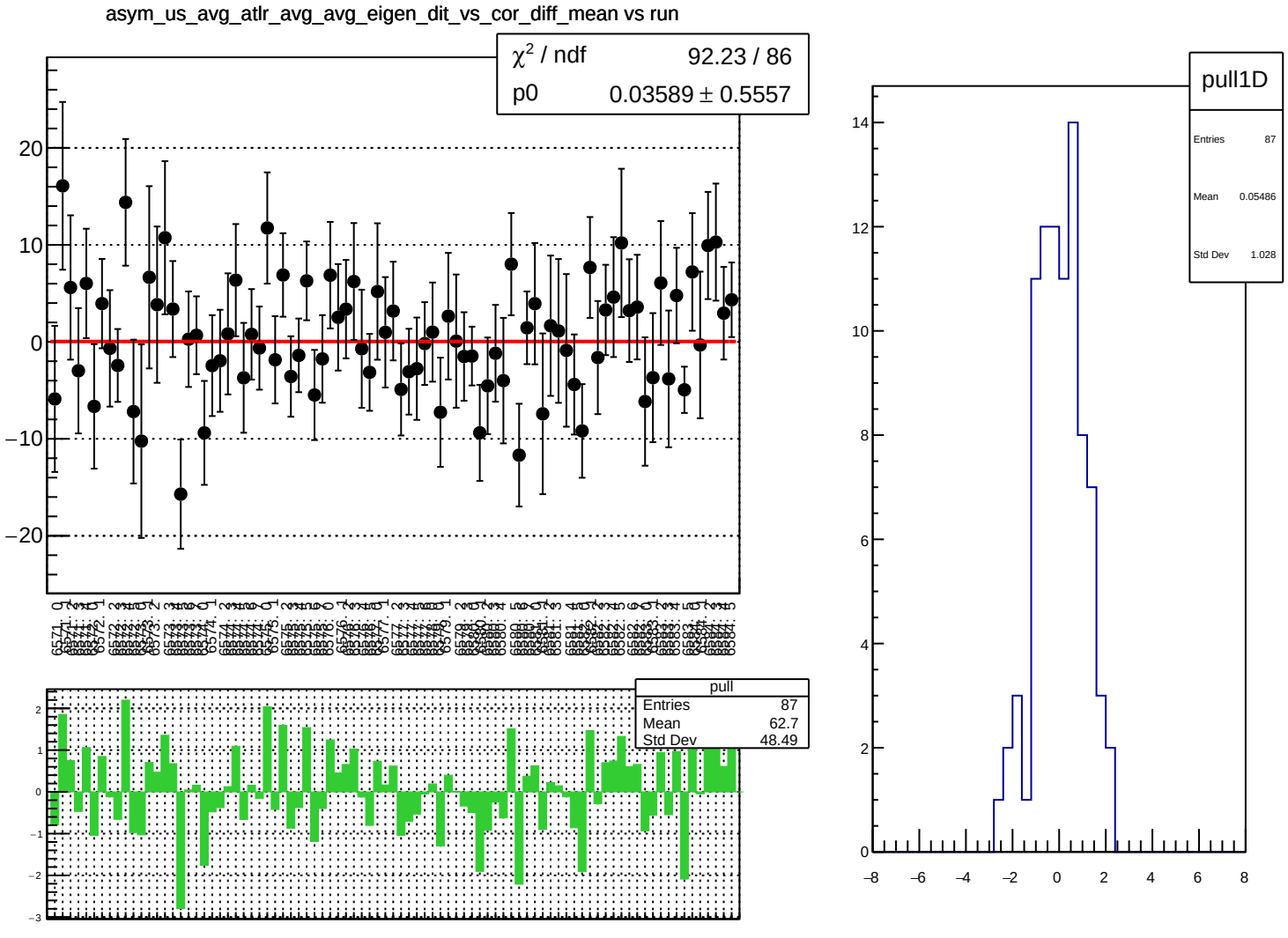

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.24 / 86
p0 0.03591 ± 0.5557
pull
Entries 87
Mean 62.69
Std Dev 48.49
pull1D
Entries 87
Mean 0.05486
Std Dev 1.028

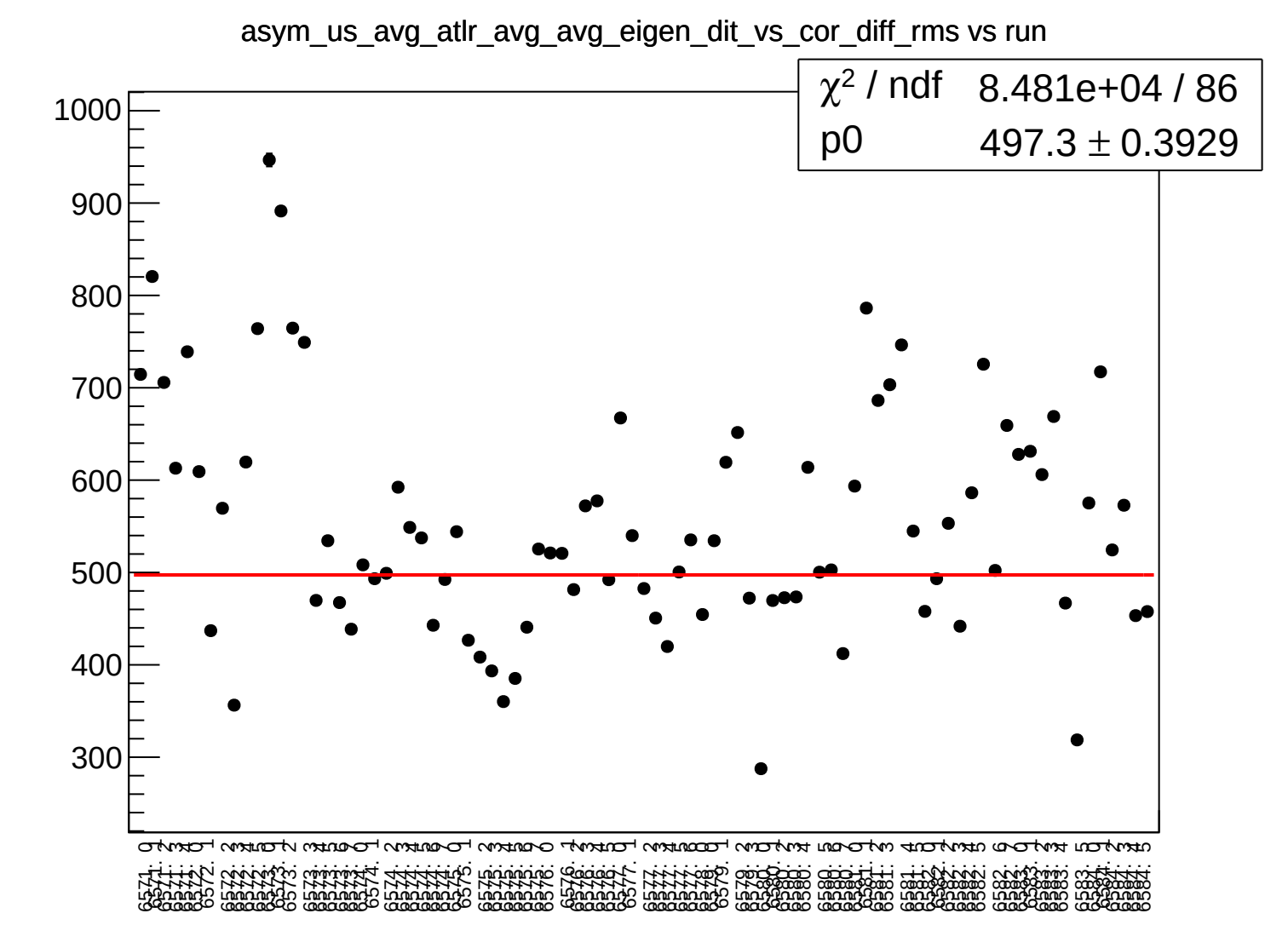

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.481e+04 / 86
p0 497.3 ± 0.3929
1000
900
800
700
600
500
400
300

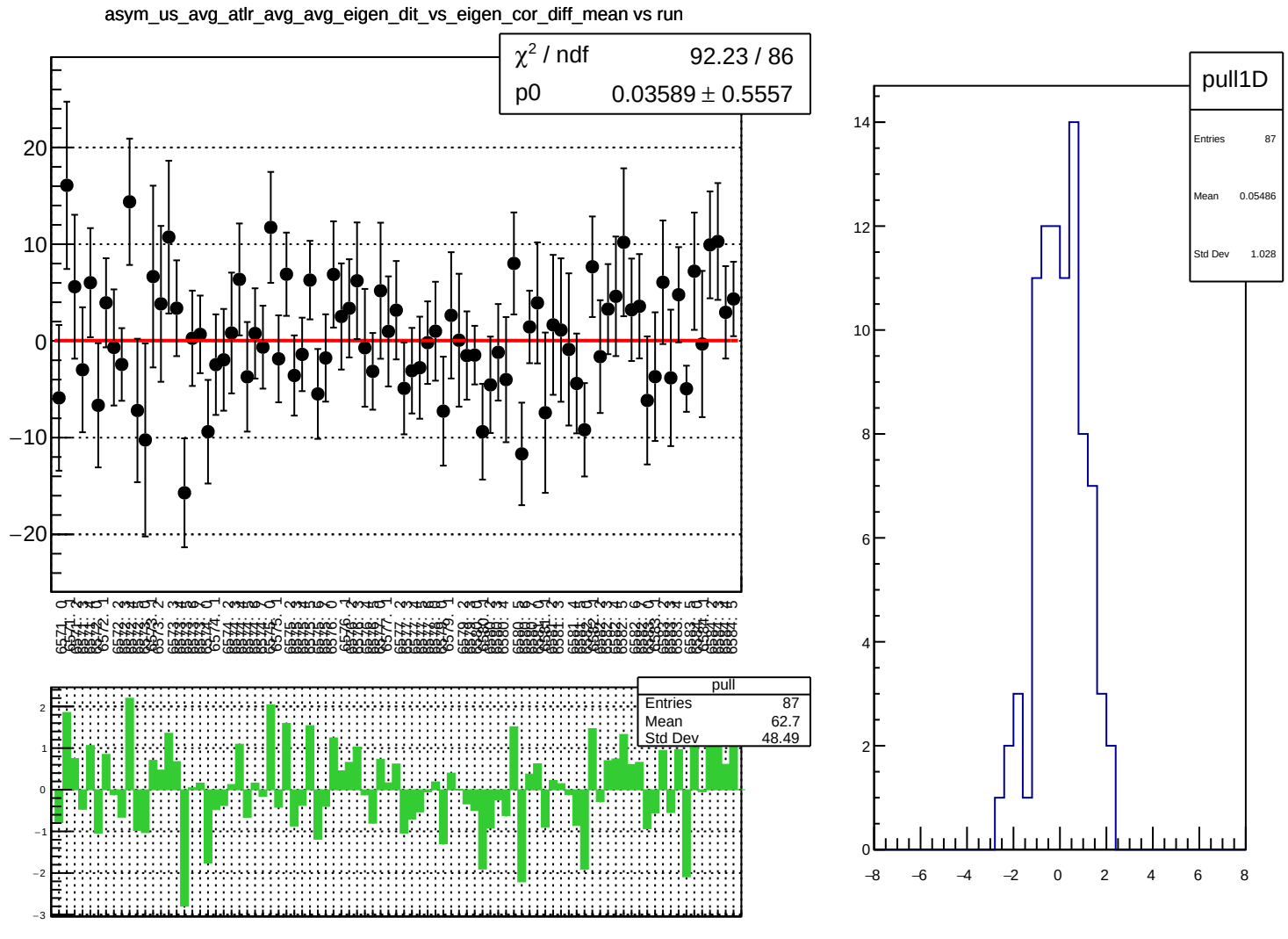

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.41 / 86
p0 −6.486e−06 ± 9.766e−06
pull
Entries 87
Mean −195.1
Std Dev 0

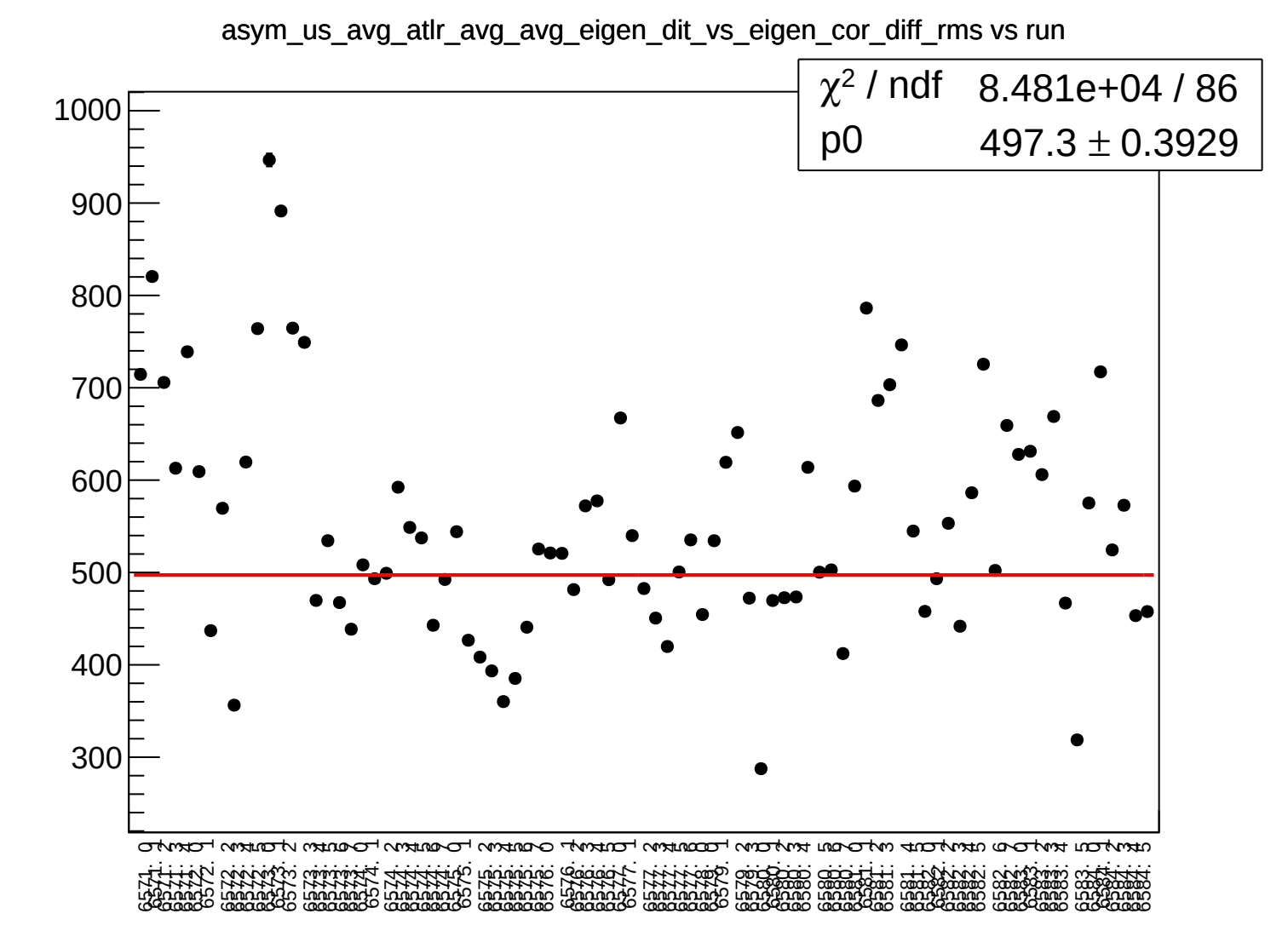

pull1D
Entries 87
Mean −0.01008
Std Dev 1.025

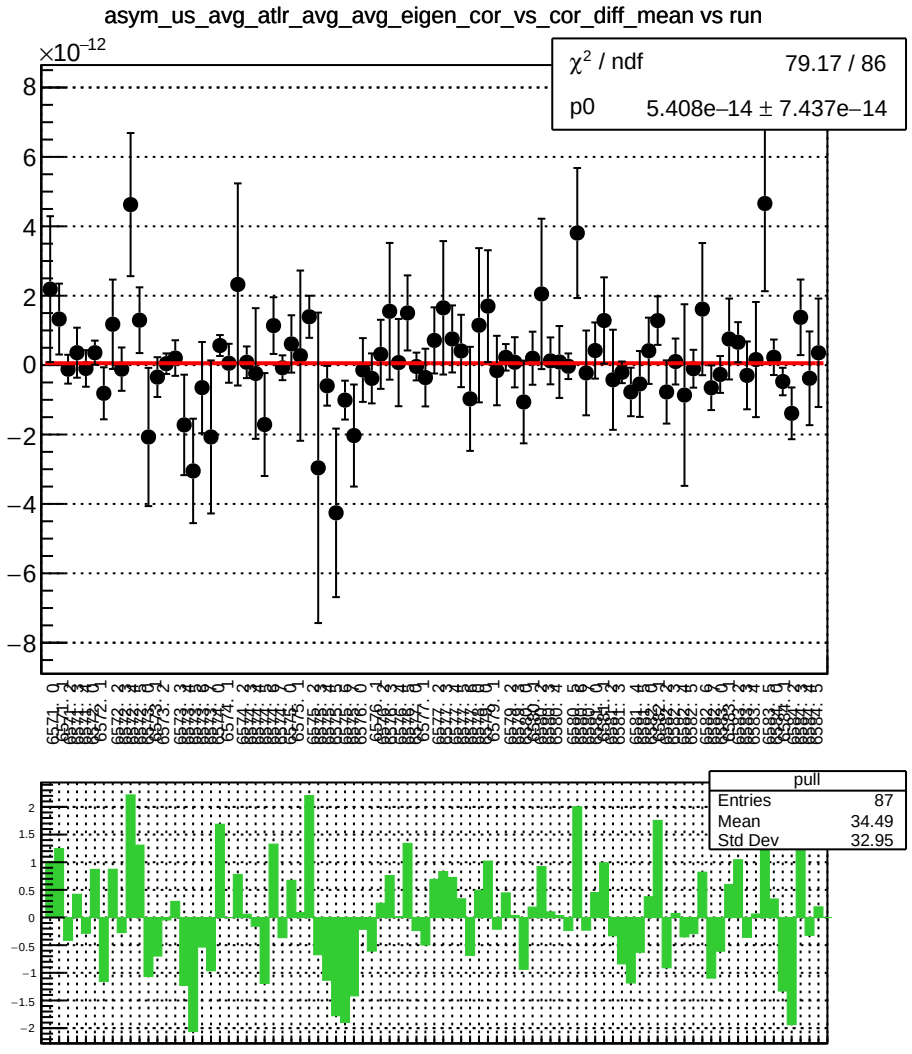

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.185e+04 / 86
p0 0.008937 ± 6.906e−06
0.012
0.011
0.01
0.009
0.008

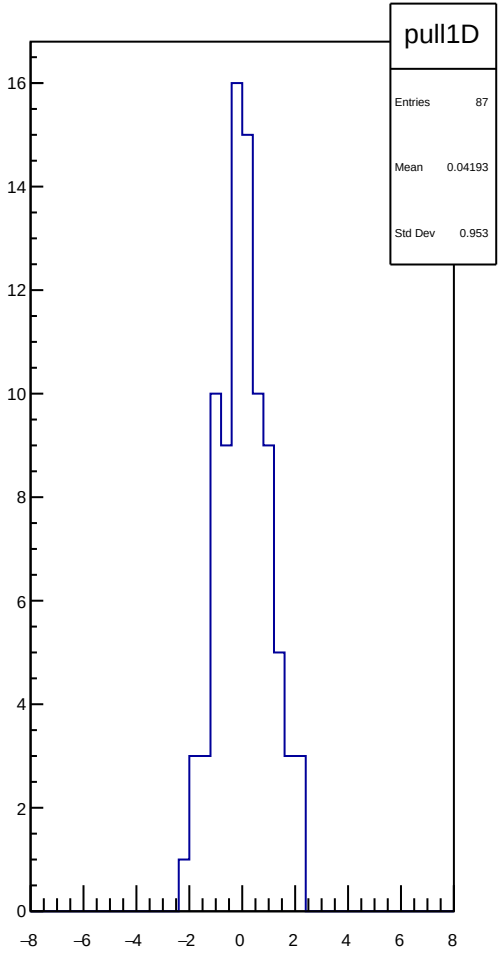

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.23 / 86
p0 0.03589 ± 0.5557
pull
Entries 87
Mean 62.7
Std Dev 48.49
pull1D
Entries 87
Mean 0.05486
Std Dev 1.028

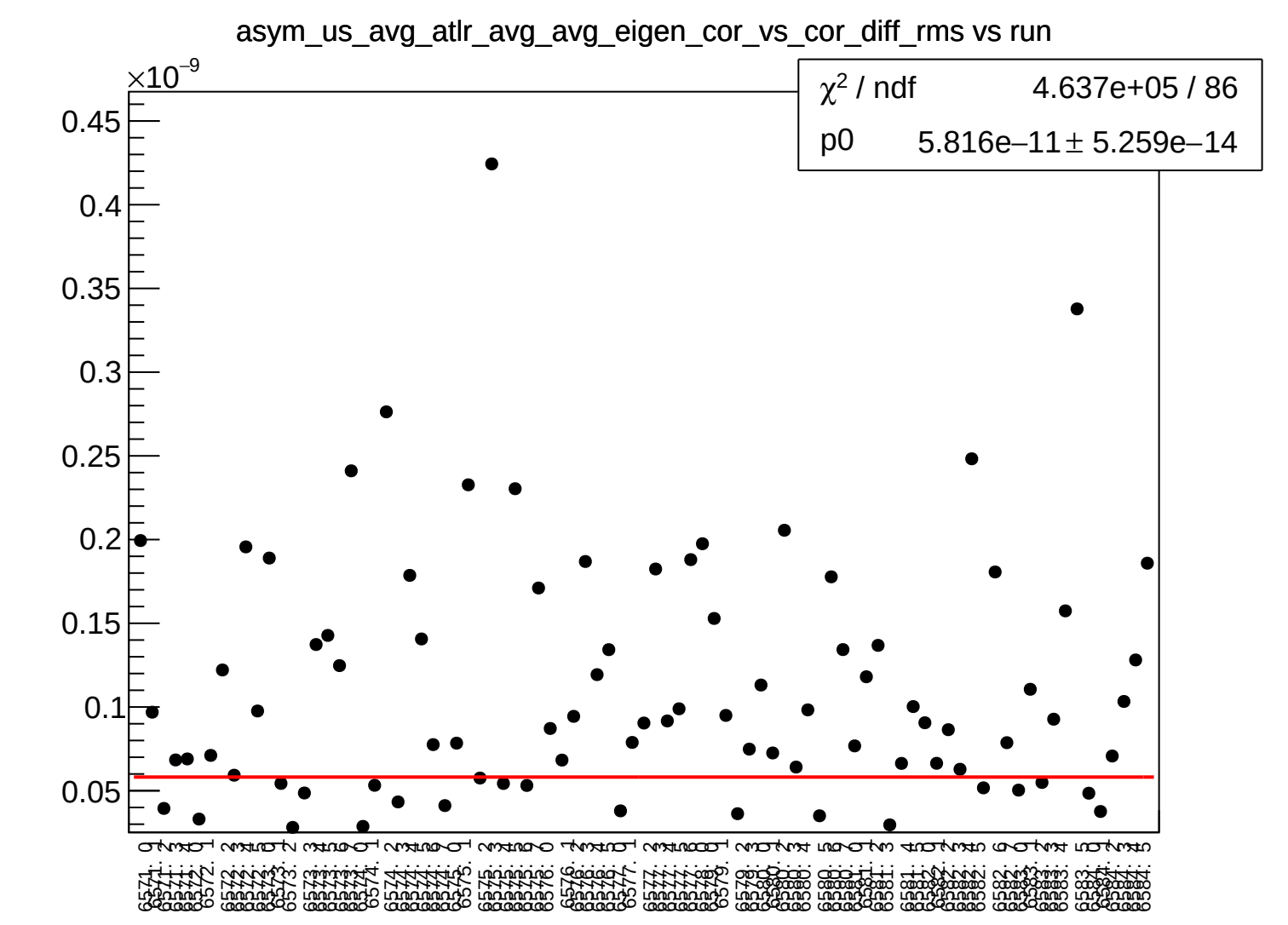

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.481e+04 / 86
p0 497.3 ± 0.3929
1000
900
800
700
600
500
400
300

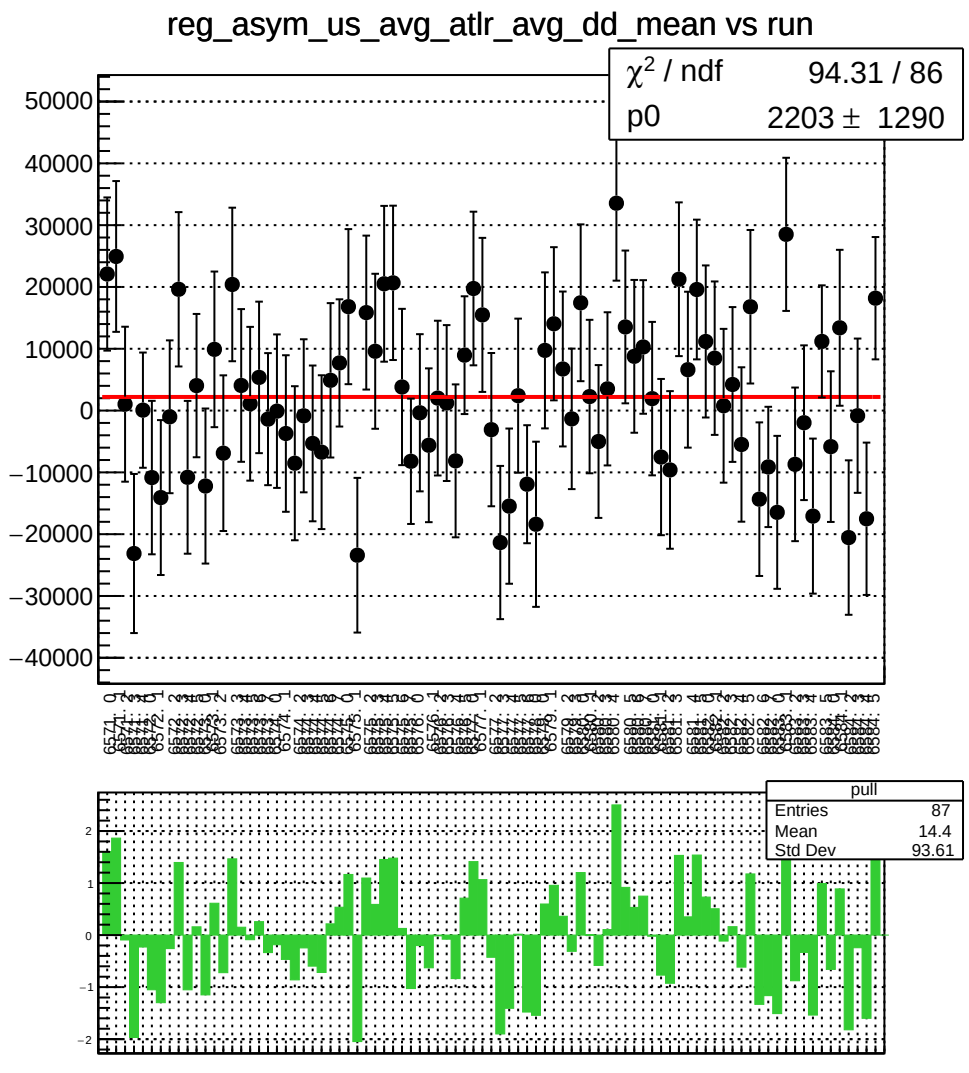

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.23 / 86
p0 0.03589 ± 0.5557
pull
Entries 87
Mean 62.7
Std Dev 48.49
pull1D
Entries 87
Mean 0.05486
Std Dev 1.028

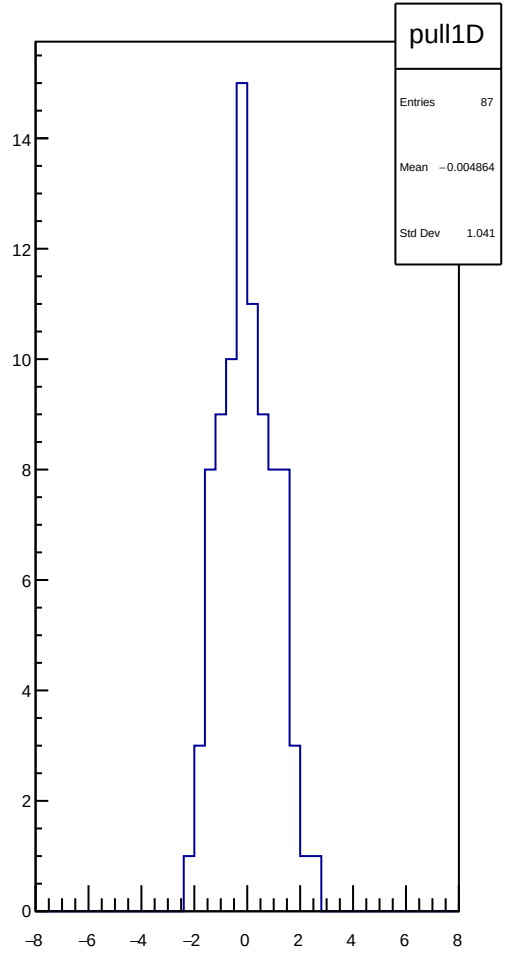

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.481e+04 / 86
p0 497.3 ± 0.3929
1000
900
800
700
600
500
400
300

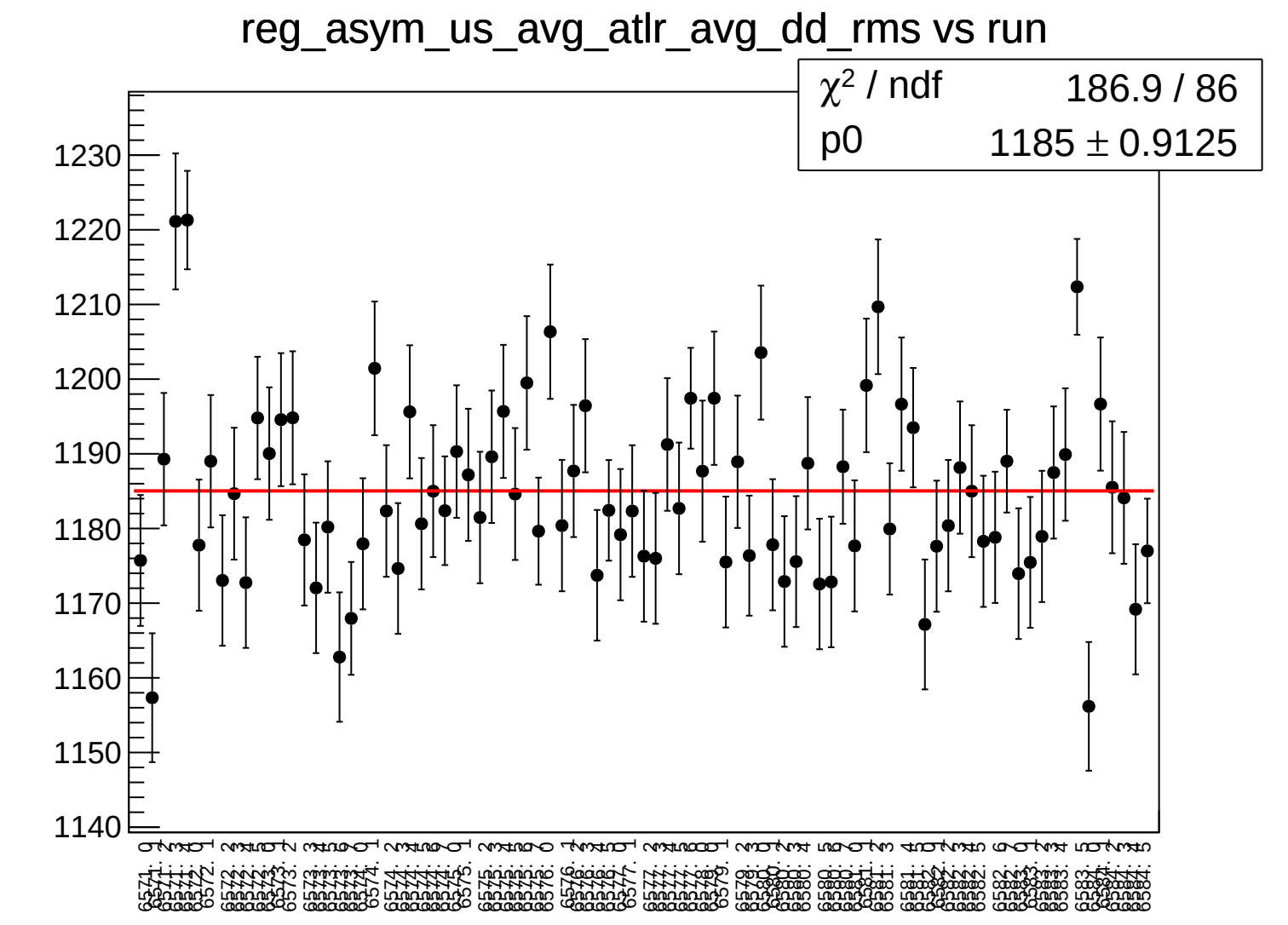

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.17 / 86
p0 5.408e−14 ± 7.437e−14
pull
Entries 87
Mean 34.49
Std Dev 32.95

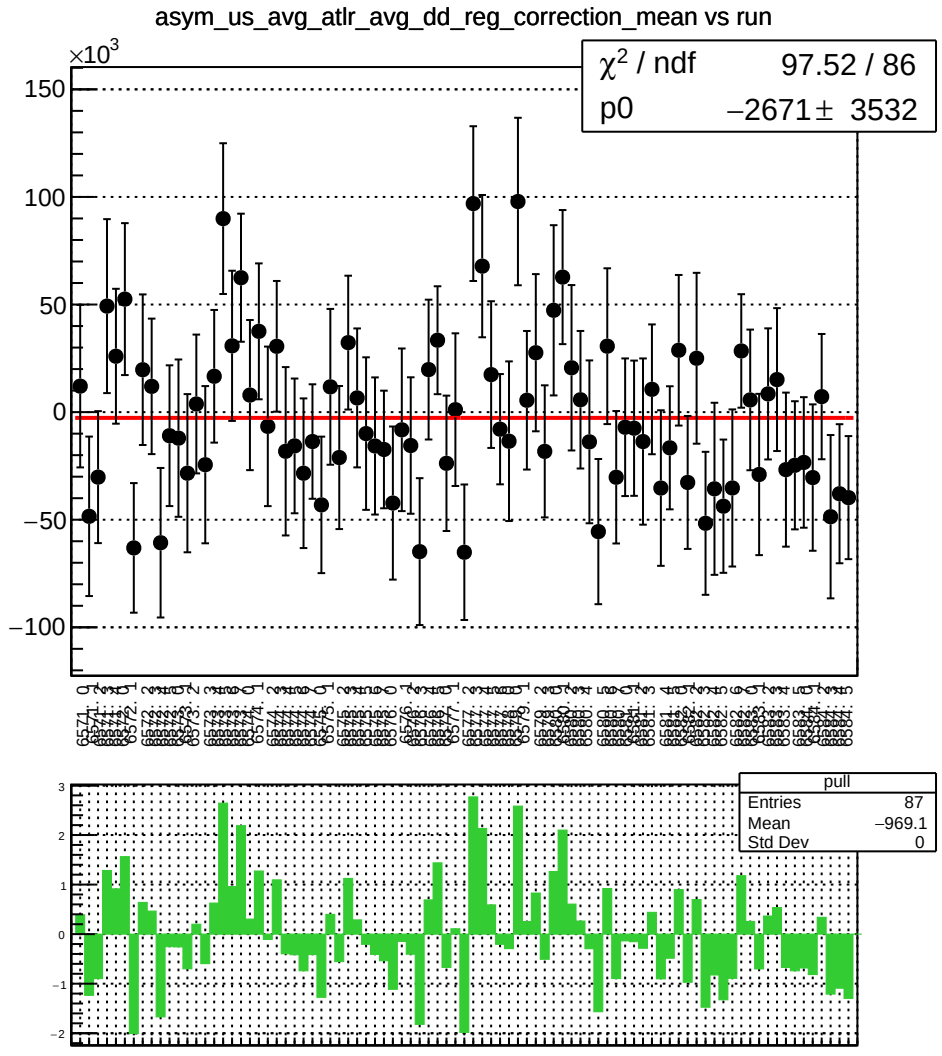

pull1D
Entries 87
Mean 0.04193
Std Dev 0.953

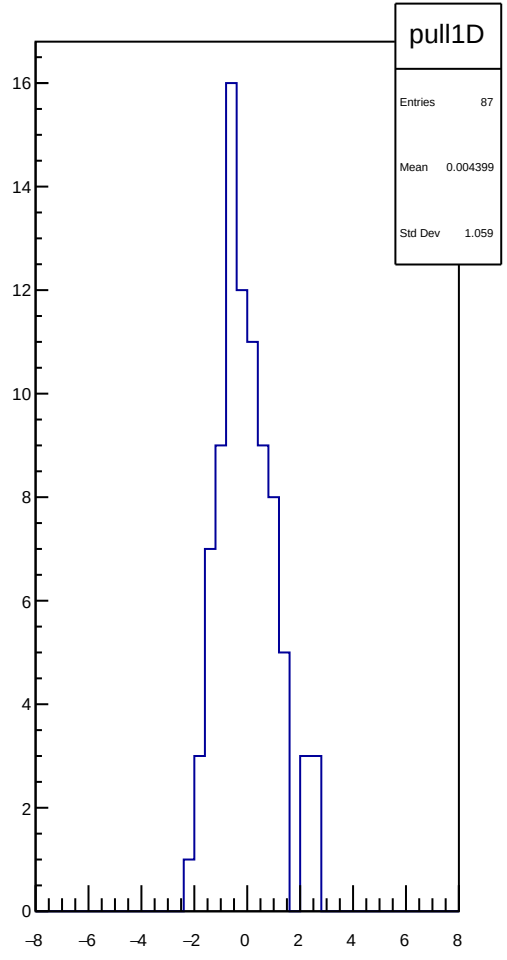

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.637e+05 / 86
p0 5.816e−11 ± 5.259e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

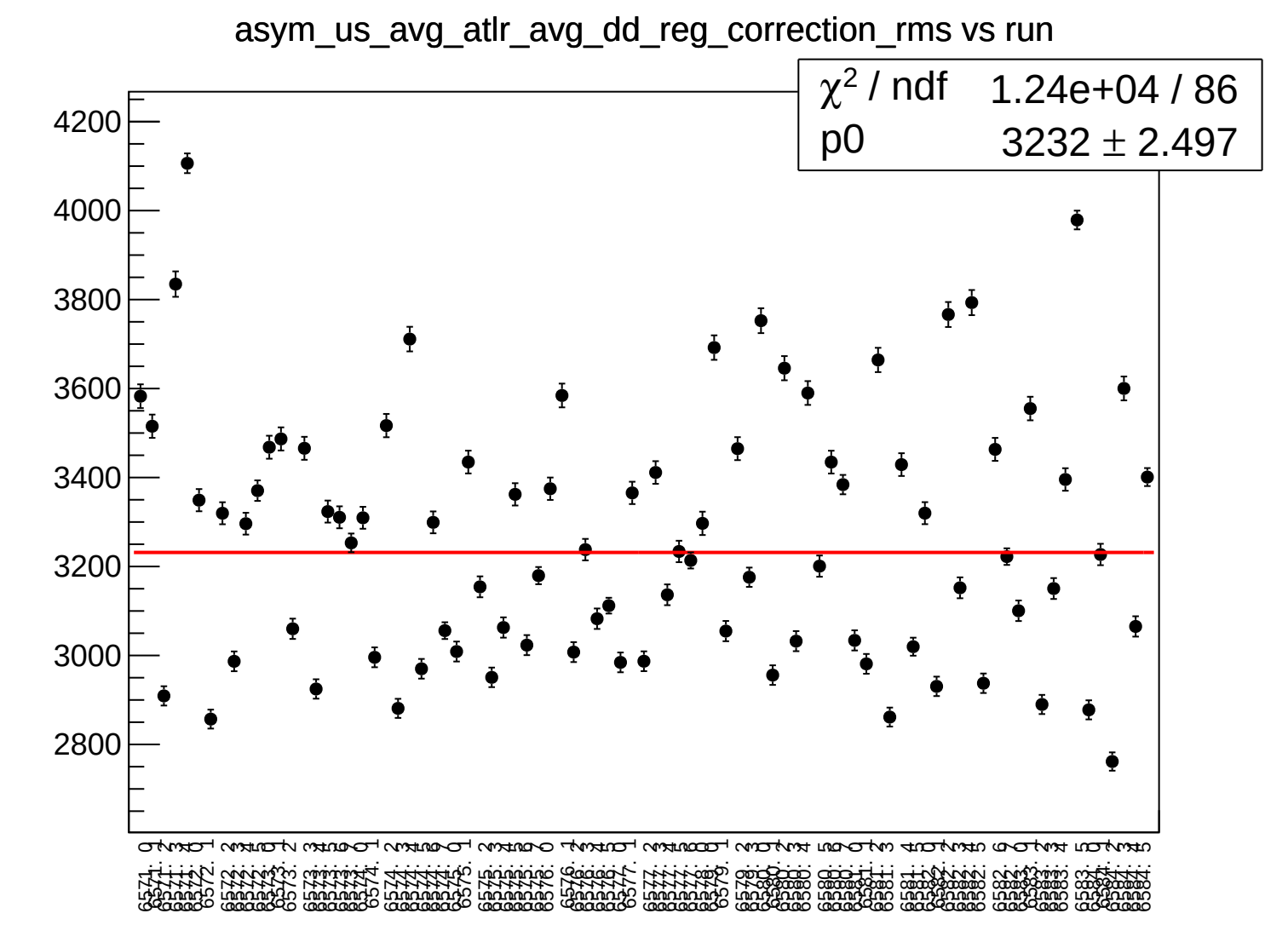

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 94.31 / 86
p0 2203 ± 1290
pull
Entries 87
Mean 14.4
Std Dev 93.61

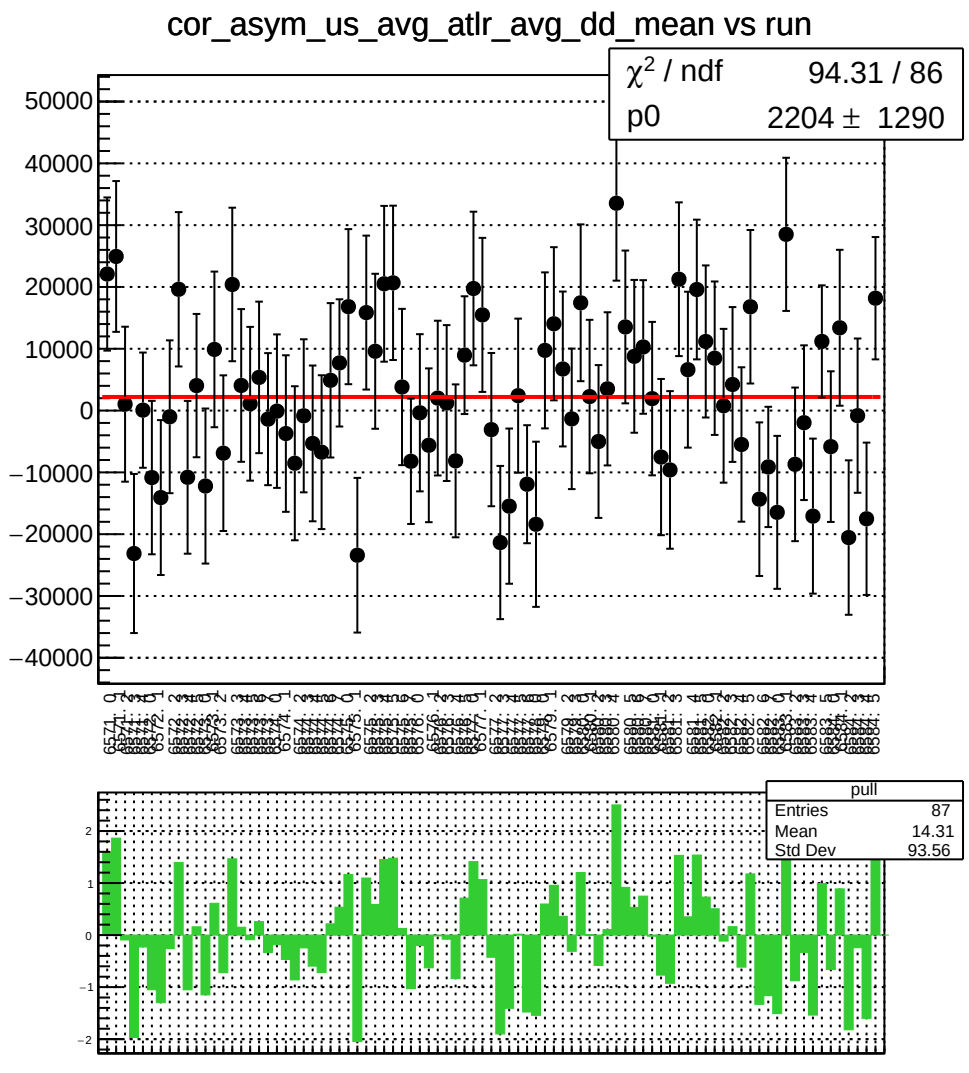

pull1D
Entries 87
Mean −0.004864
Std Dev 1.041

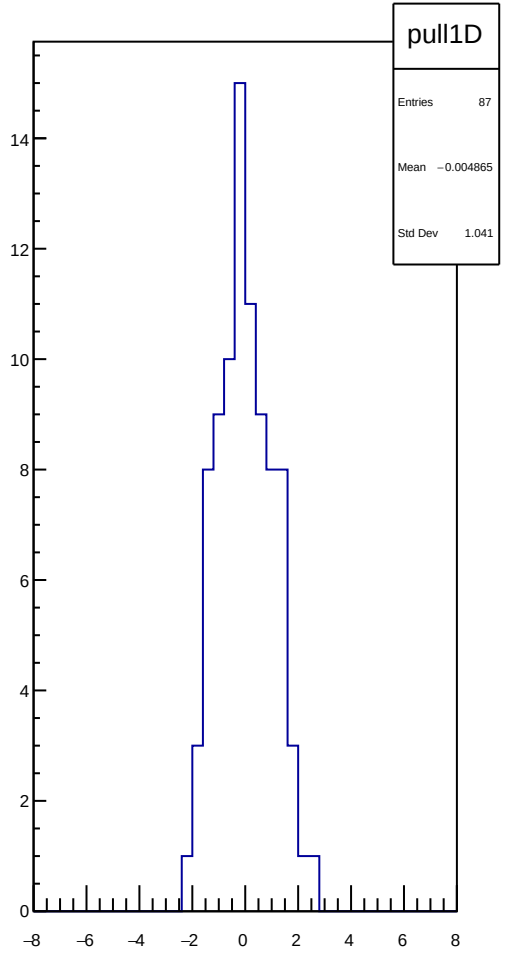

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 186.9 / 86
p0 1185 ± 0.9125
1230
1220
1210
1200
1190
1180
1170
1160
1150
1140

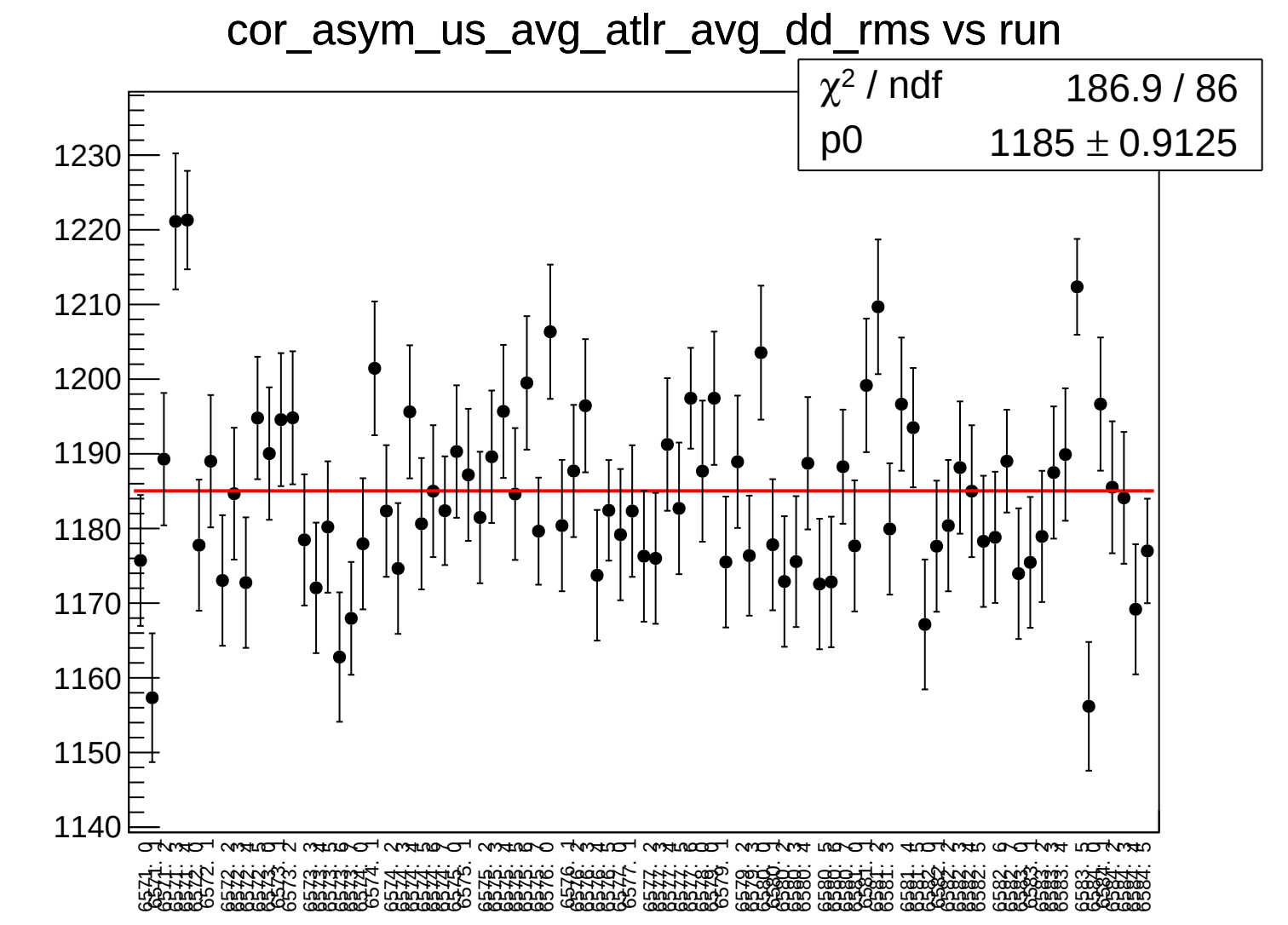

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.52 / 86
p0 −2671 ± 3532
150
100
50
0
−50
−100
pull
Entries 87
Mean −969.1
Std Dev 0
3
2
1
0
−1
−2

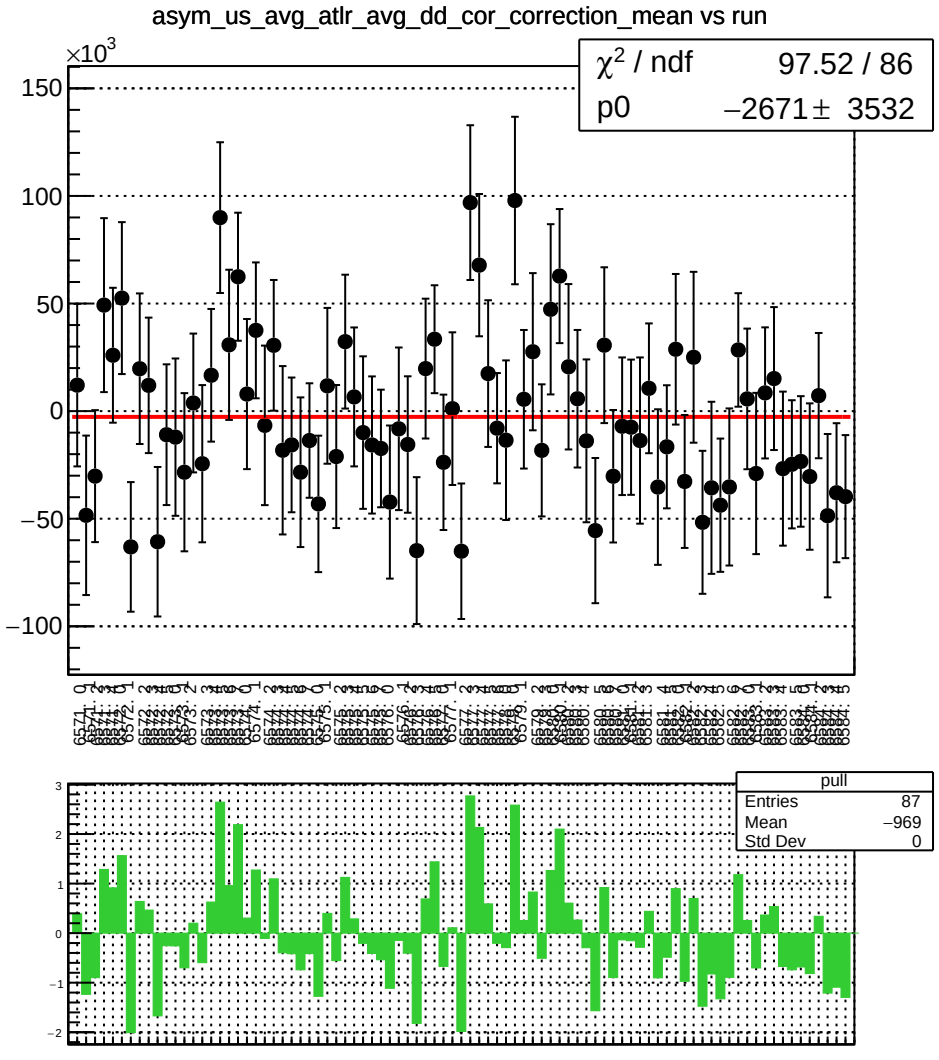

pull1D
Entries 87
Mean 0.004399
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

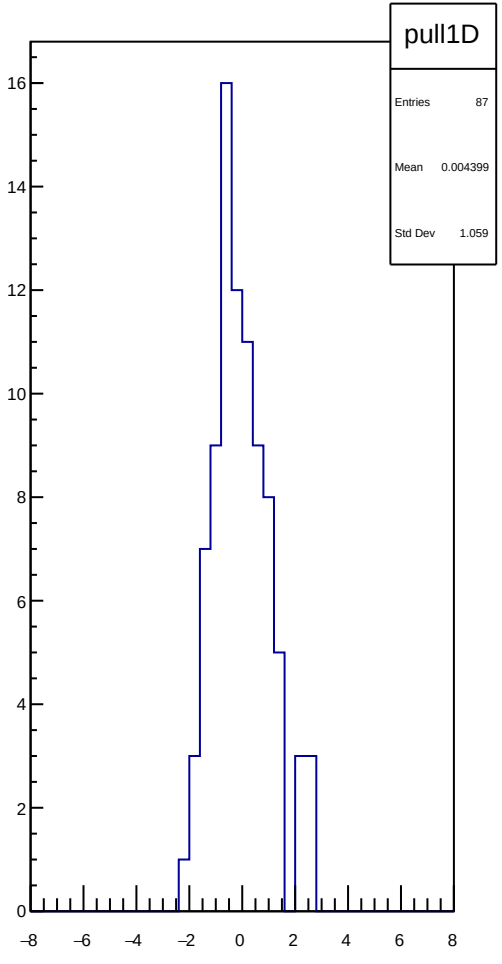

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.24e+04 / 86
p0 3232 ± 2.497
4200
4000
3800
3600
3400
3200
3000
2800

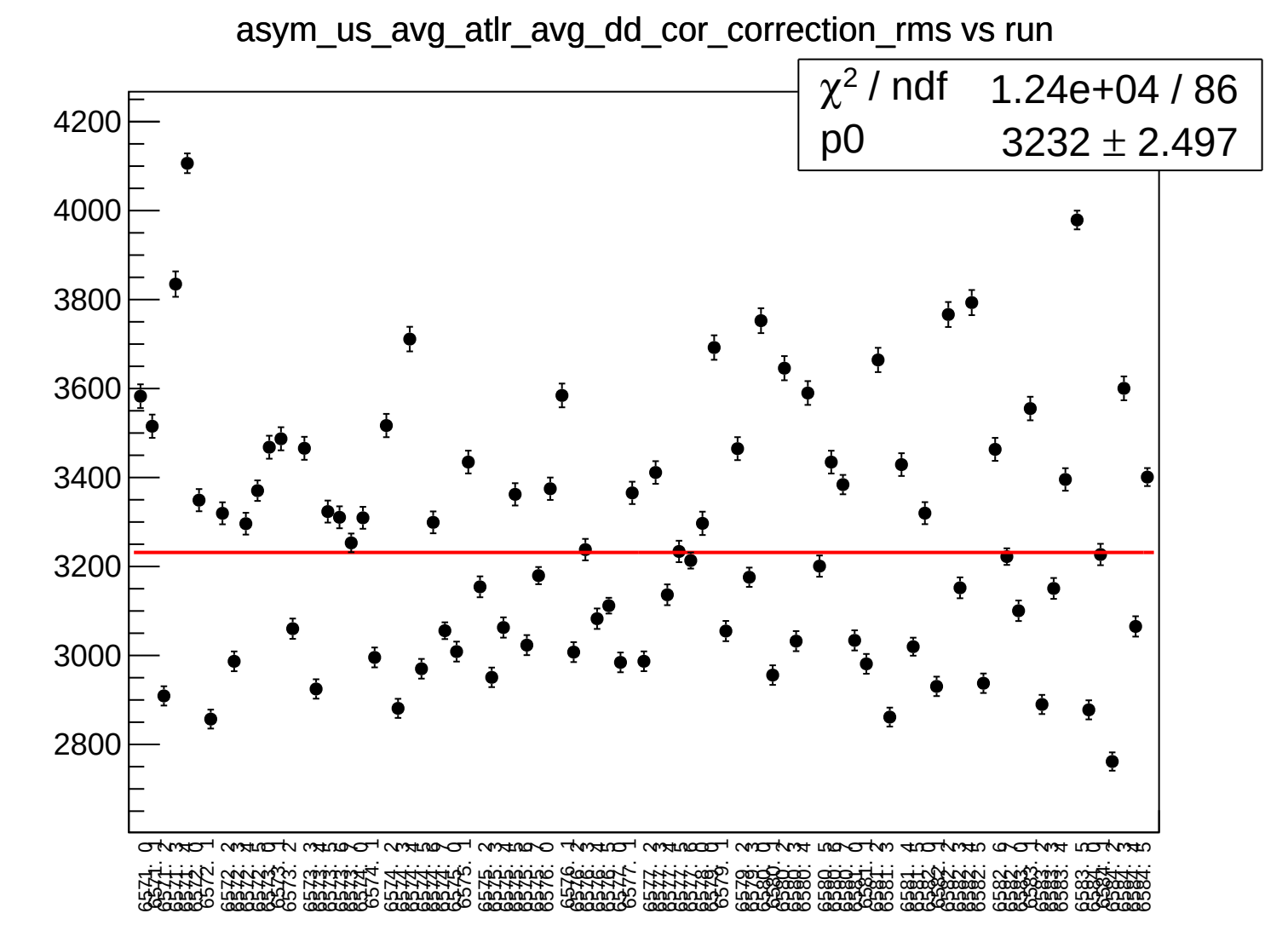

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 94.31 / 86
p0 2204 ± 1290
pull
Entries 87
Mean 14.31
Std Dev 93.56

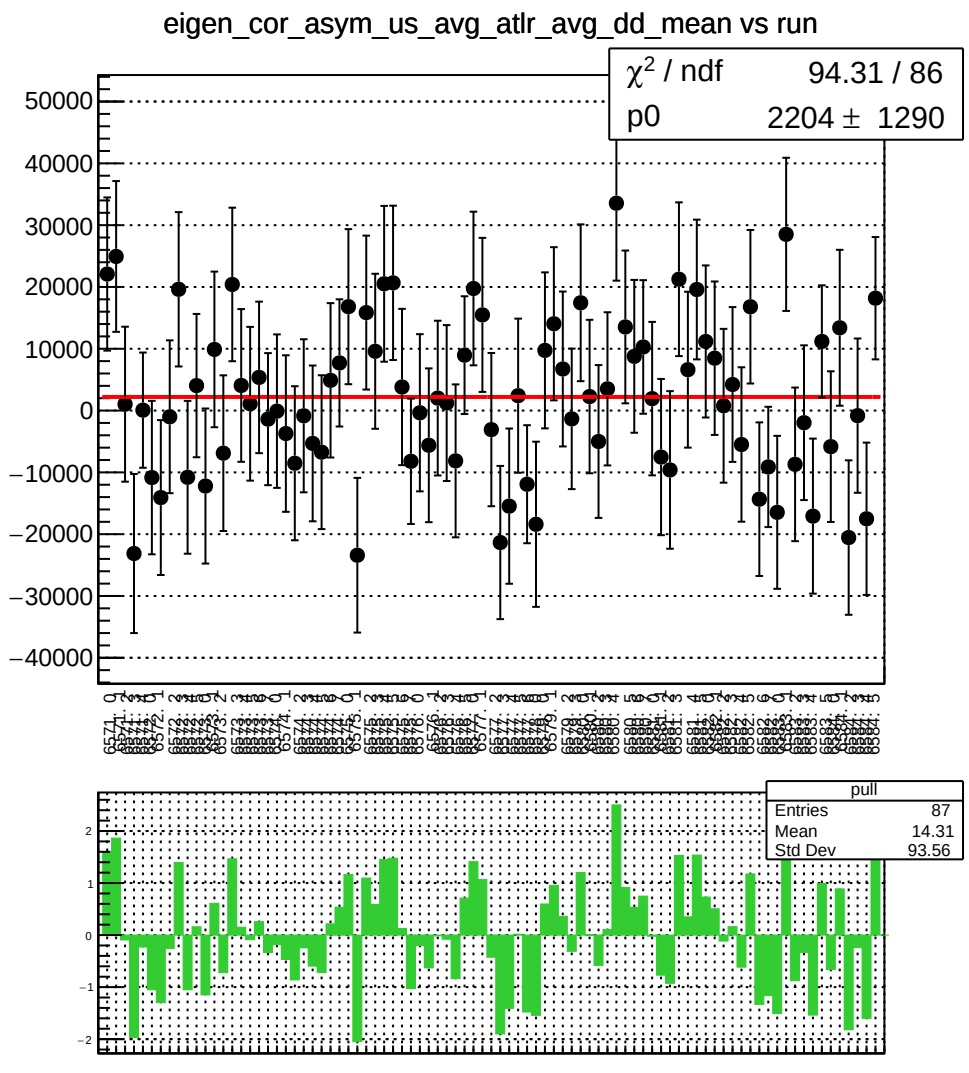

pull1D
Entries 87
Mean −0.004865
Std Dev 1.041

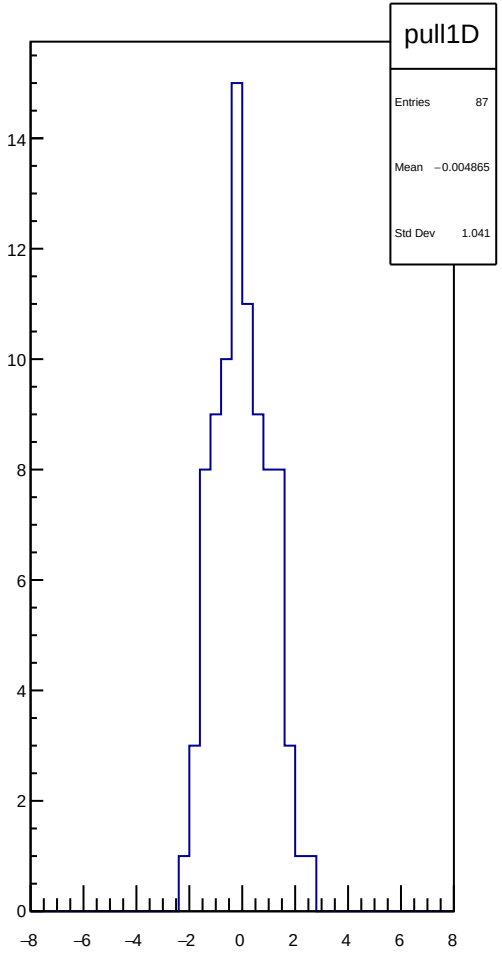

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 186.9 / 86
p0 1185 ± 0.9125
1230
1220
1210
1200
1190
1180
1170
1160
1150
1140

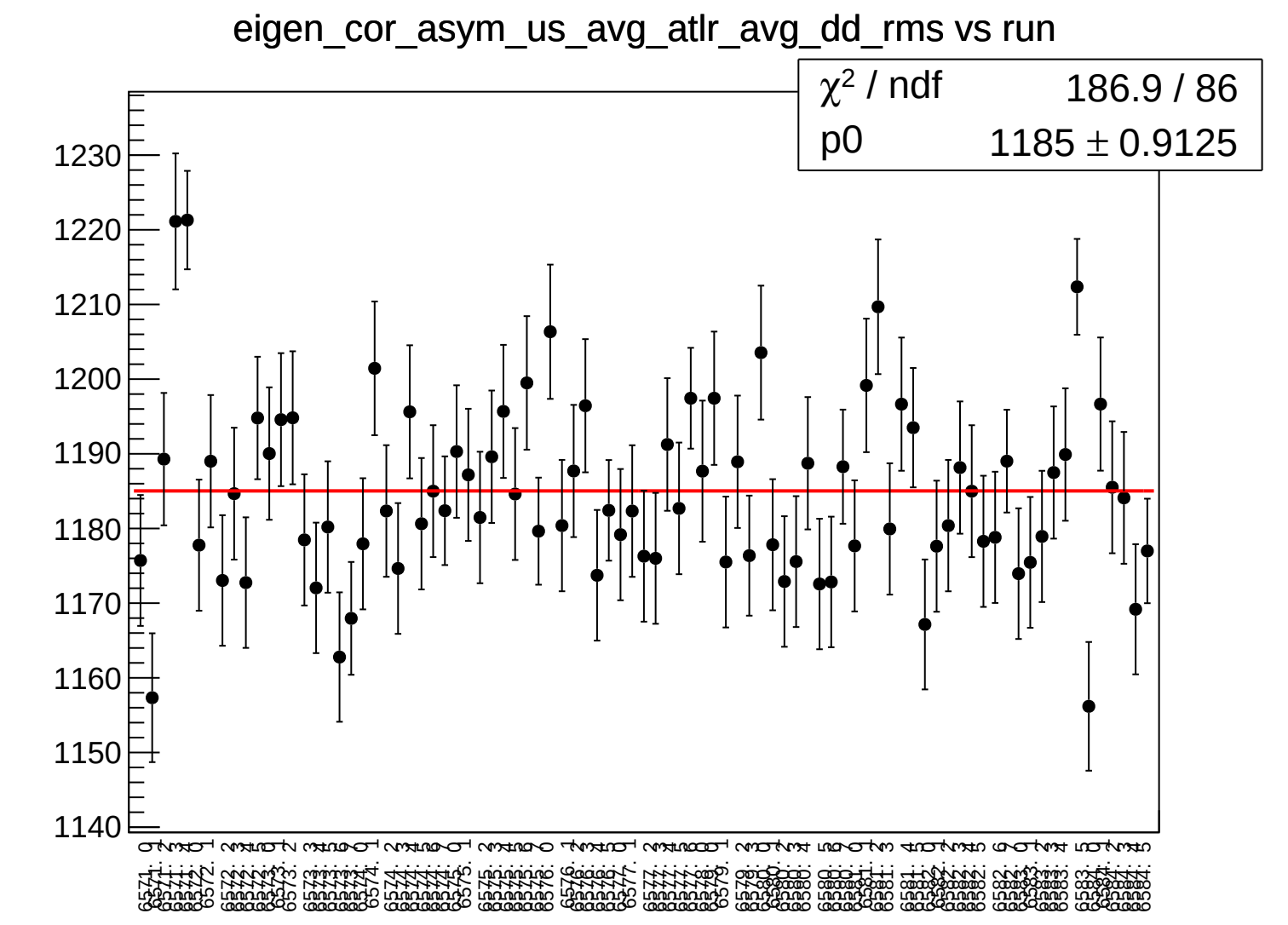

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.52 / 86
p0 −2671 ± 3532
150
100
50
0
−50
−100
pull
Entries 87
Mean −969
Std Dev 0
3
2
1
0
−1
−2

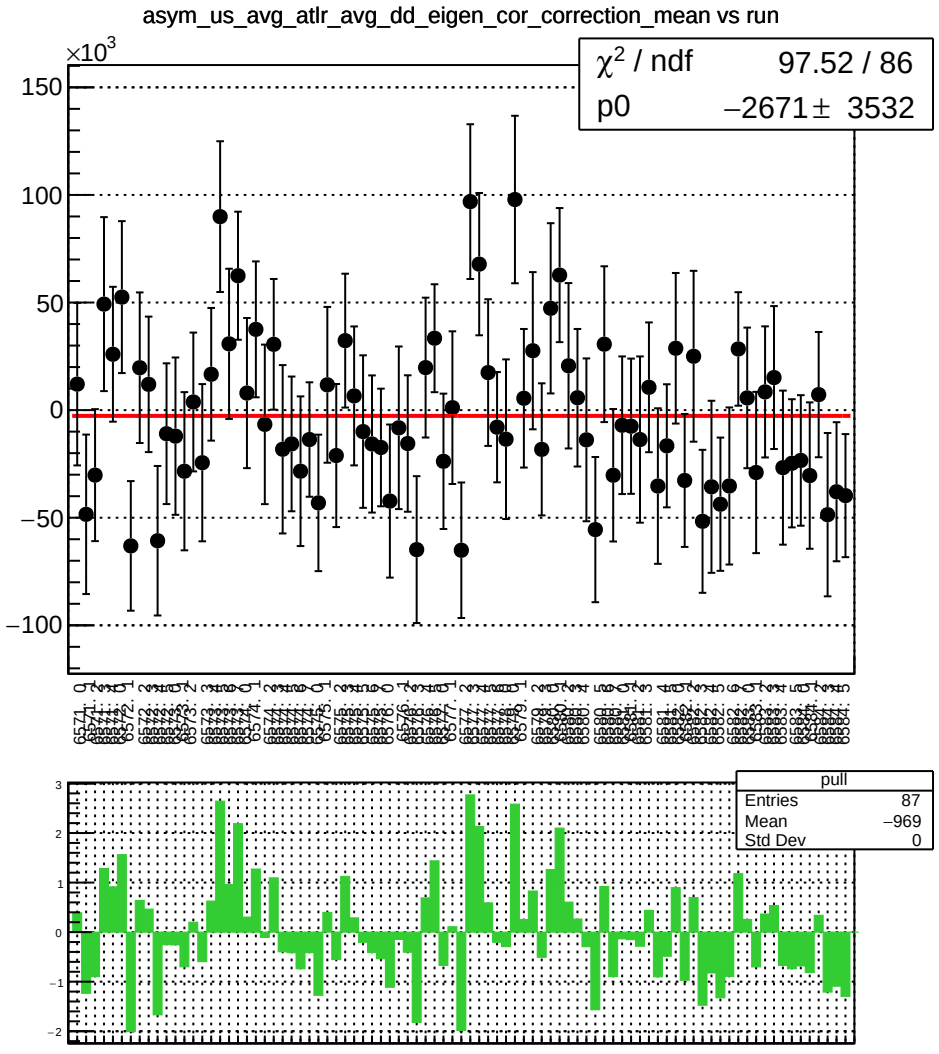

pull1D
Entries 87
Mean 0.004399
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

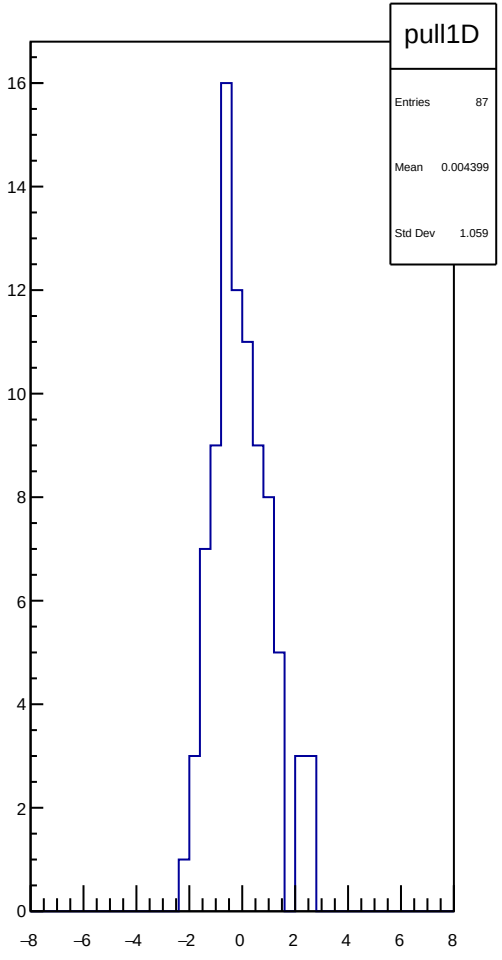

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.24e+04 / 86
p0 3232 ± 2.497
4200
4000
3800
3600
3400
3200
3000
2800

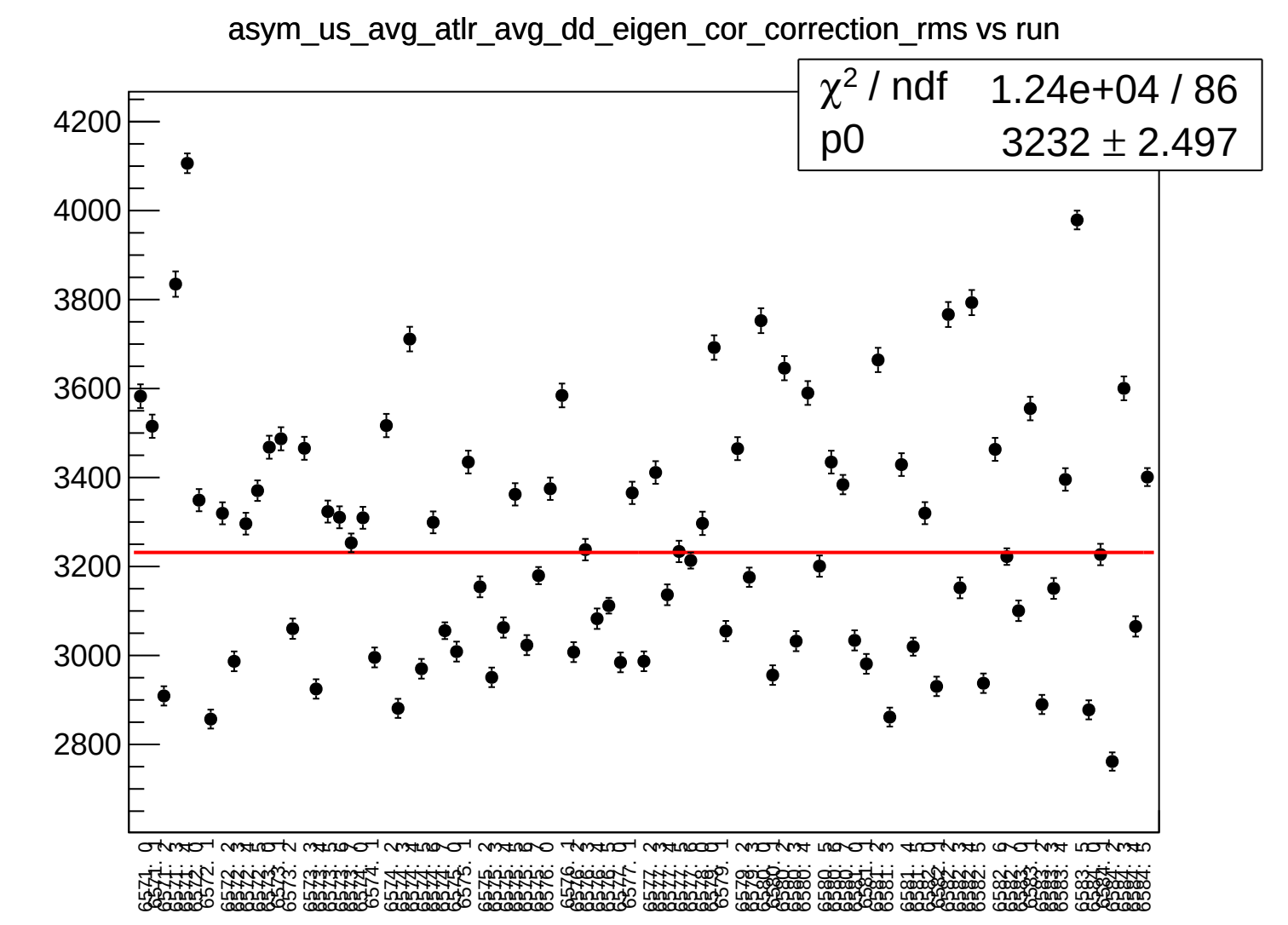

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 94.31 / 86
p0 2204 ± 1290
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean 14.31
Std Dev 93.56
2
1
0
−1
−2

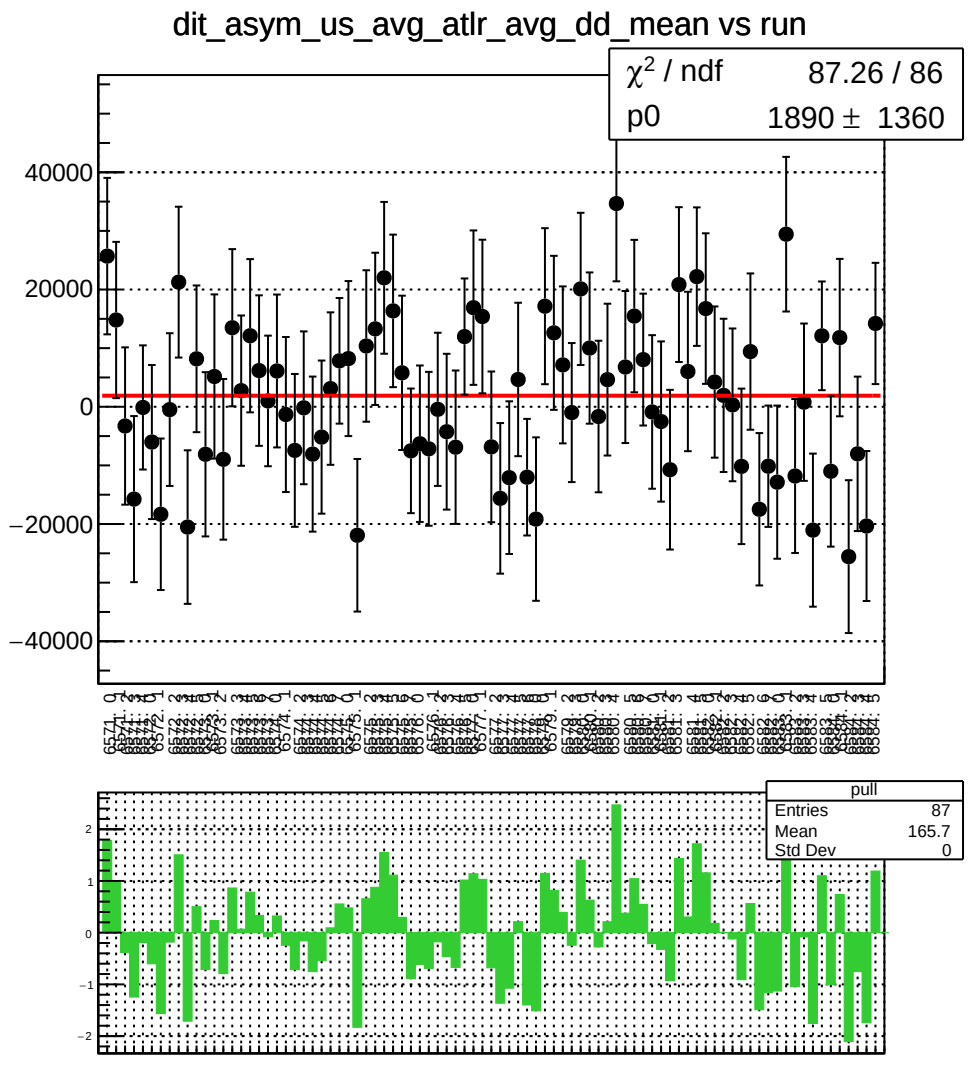

pull1D
Entries 87
Mean −0.004865
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

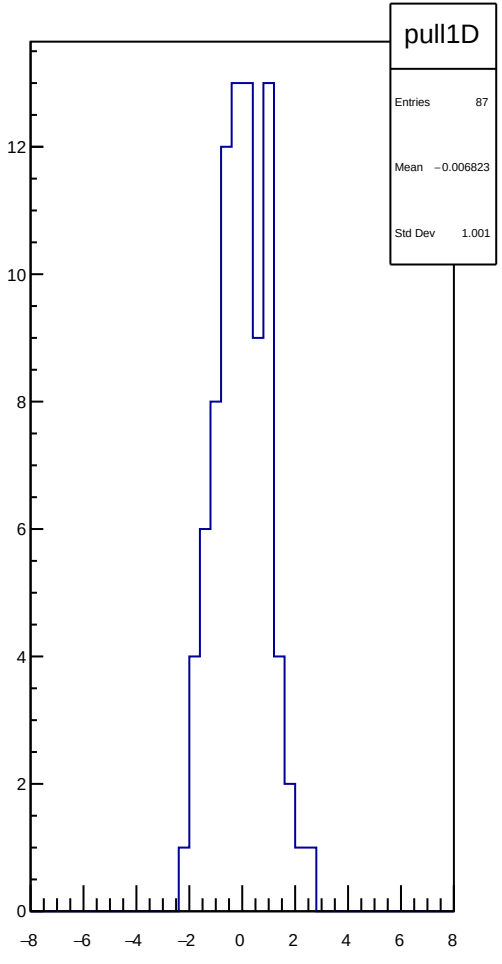

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 186.9 / 86
p0 1185 ± 0.9125
1230
1220
1210
1200
1190
1180
1170
1160
1150
1140

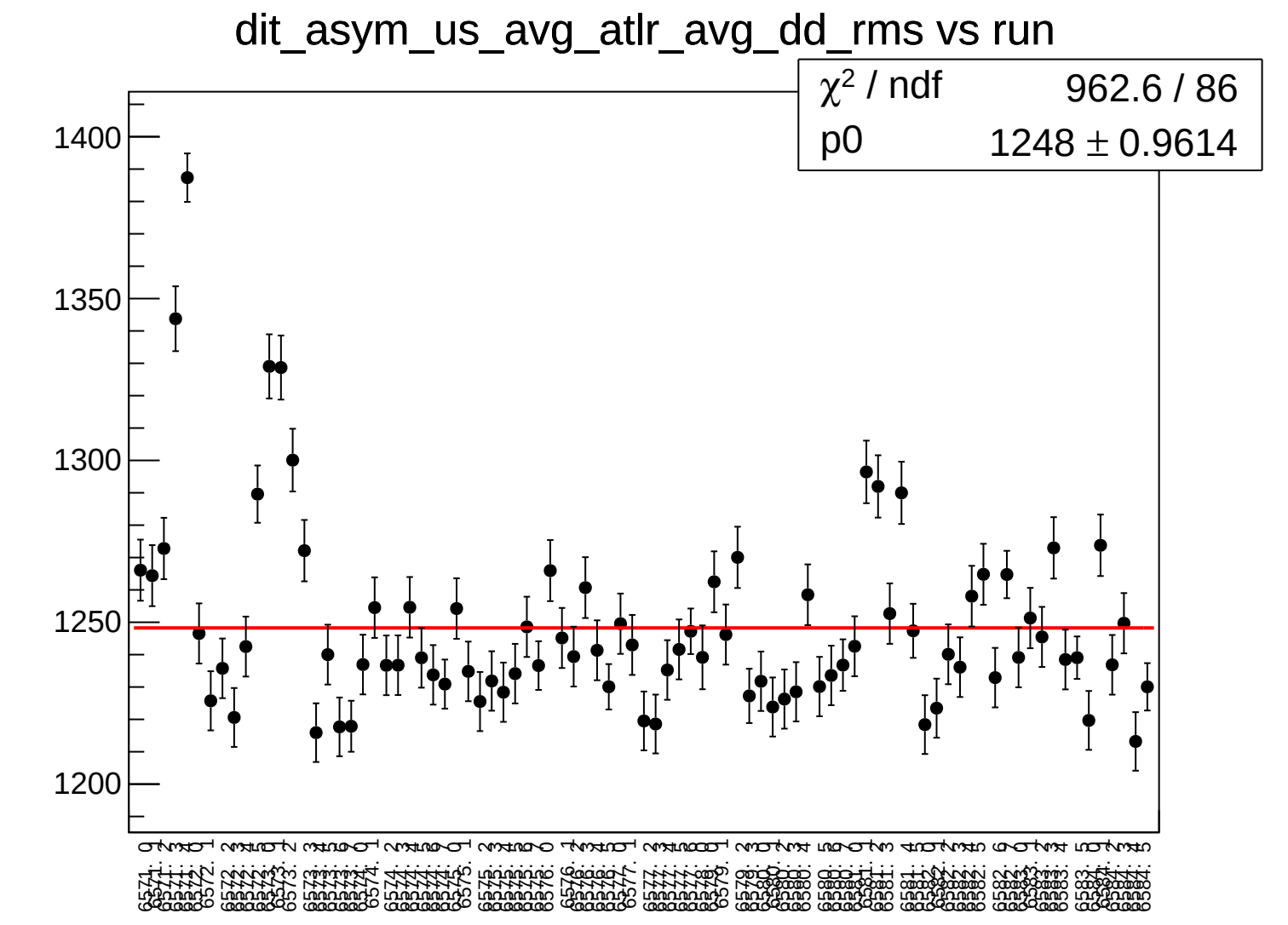

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.52 / 86
p0 −2671 ± 3532
150
100
50
0
−50
−100
pull
Entries 87
Mean −969
Std Dev 0
3
2
1
0
−1
−2

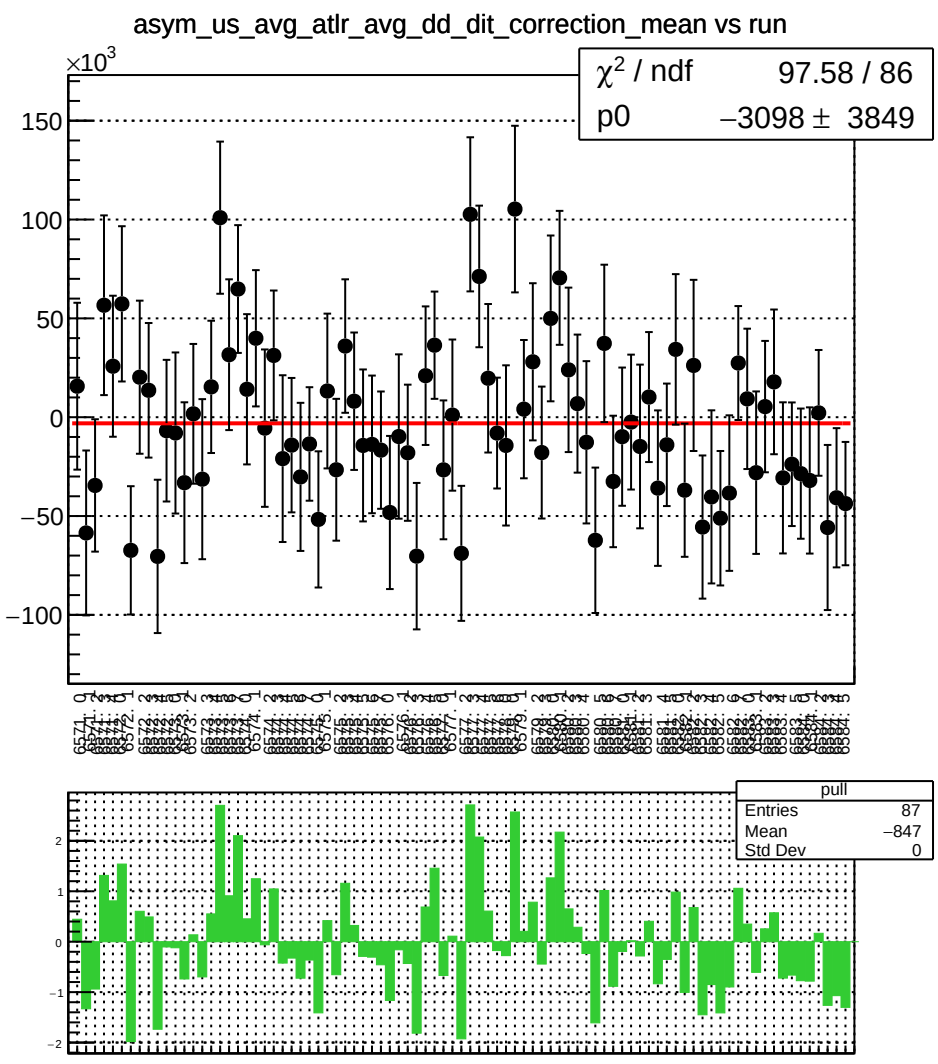

pull1D
Entries 87
Mean 0.004399
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

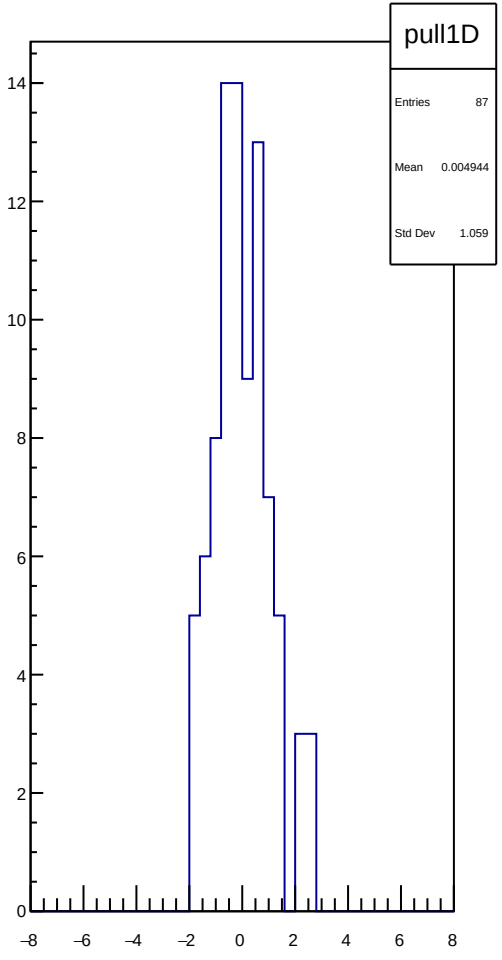

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.24e+04 / 86
p0 3232 ± 2.497
4200
4000
3800
3600
3400
3200
3000
2800

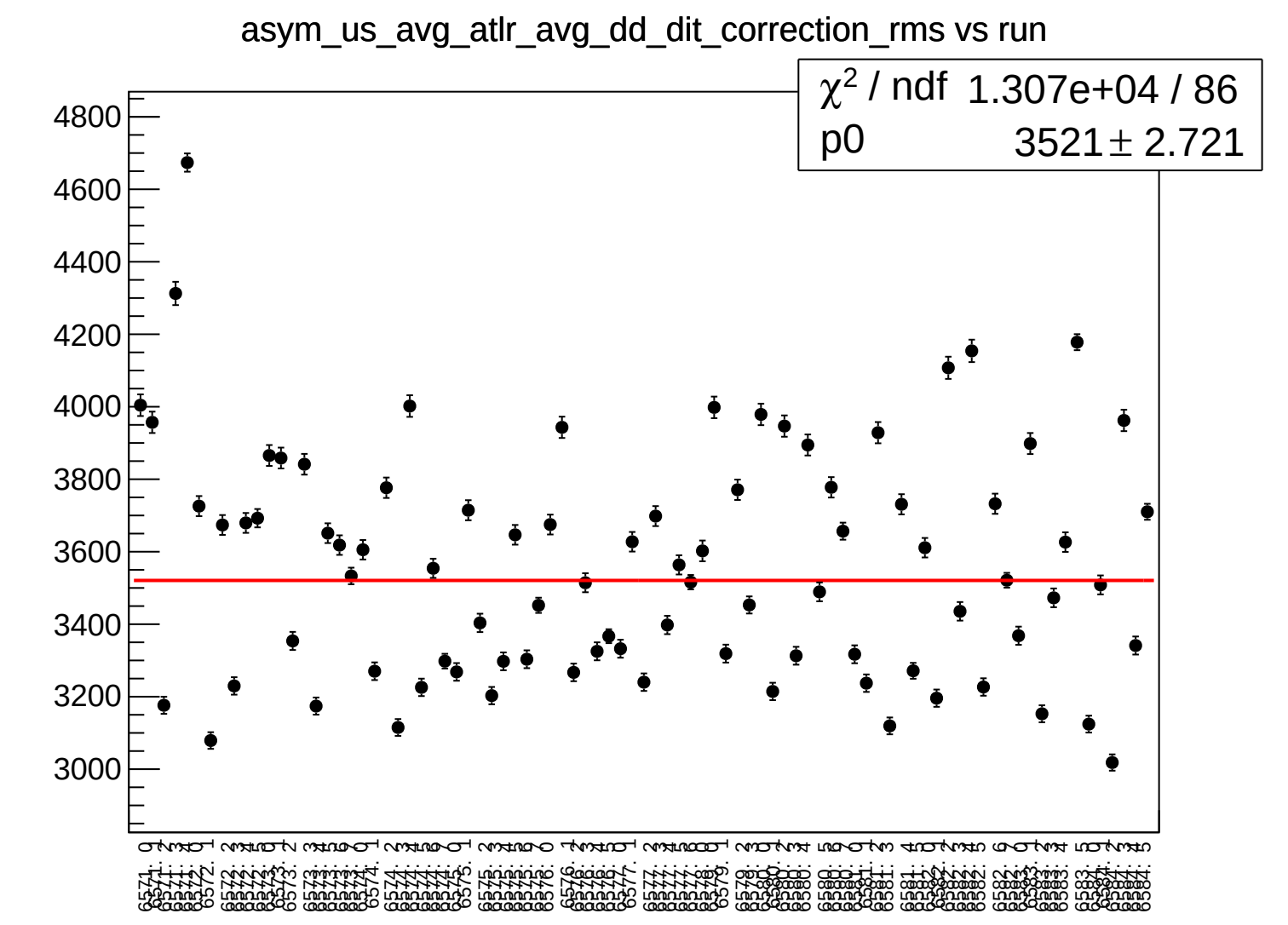

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.26 / 86
p0 1890 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 165.7
Std Dev 0
2
1
0
−1
−2

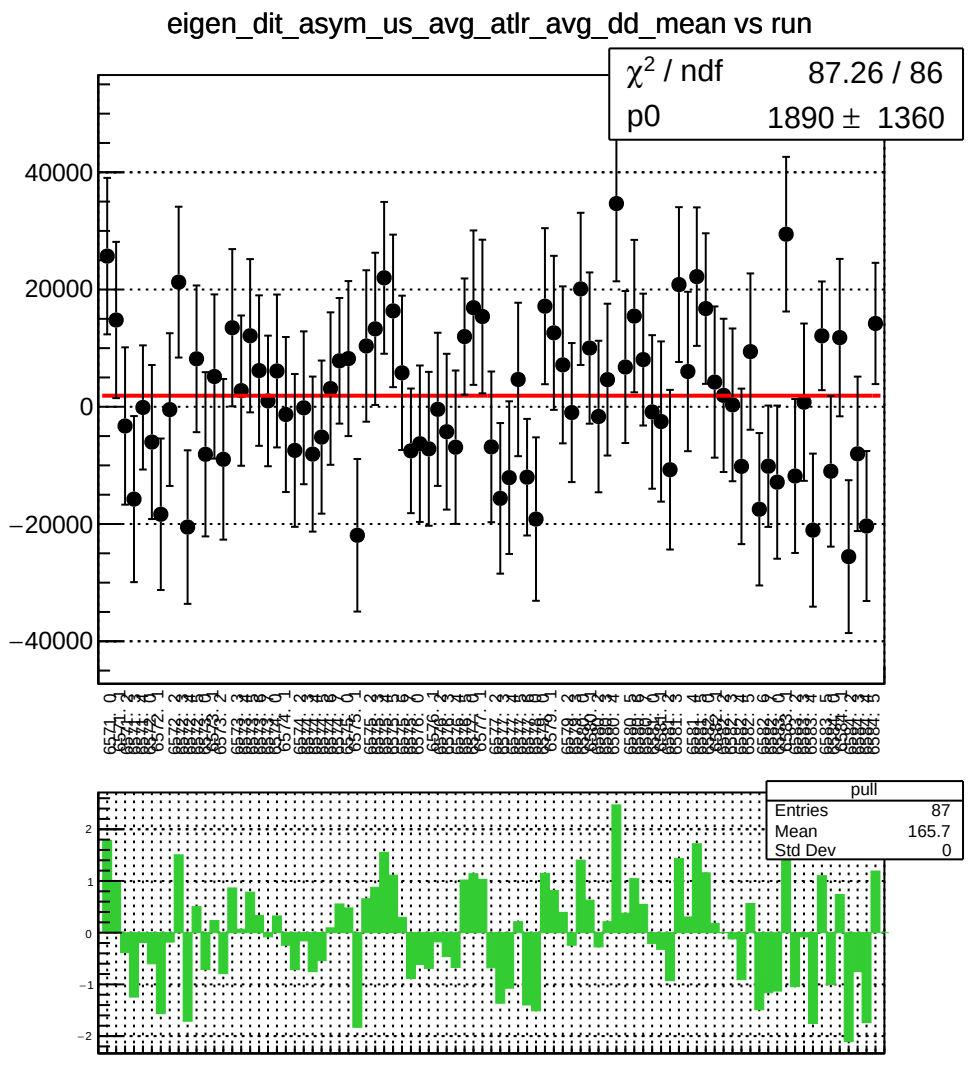

pull1D
Entries 87
Mean −0.006823
Std Dev 1.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

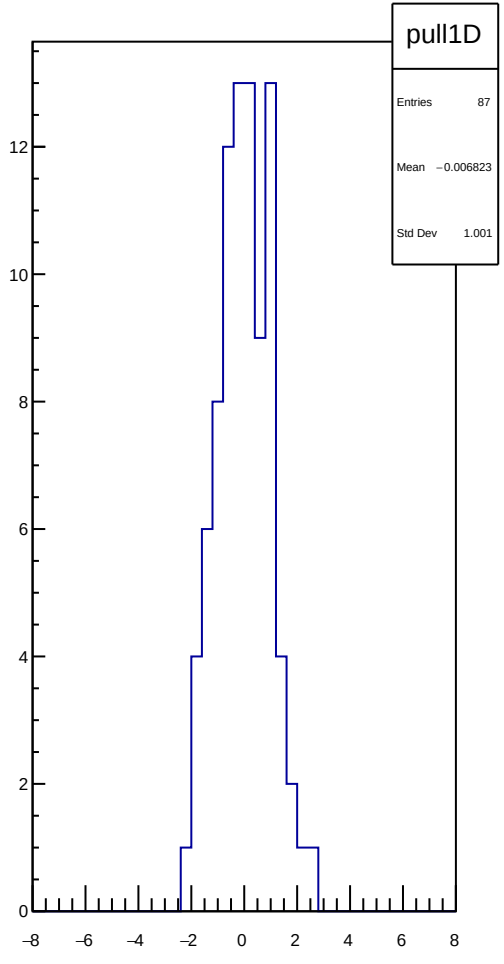

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 962.6 / 86
p0 1248 ± 0.9614
1400
1350
1300
1250
1200

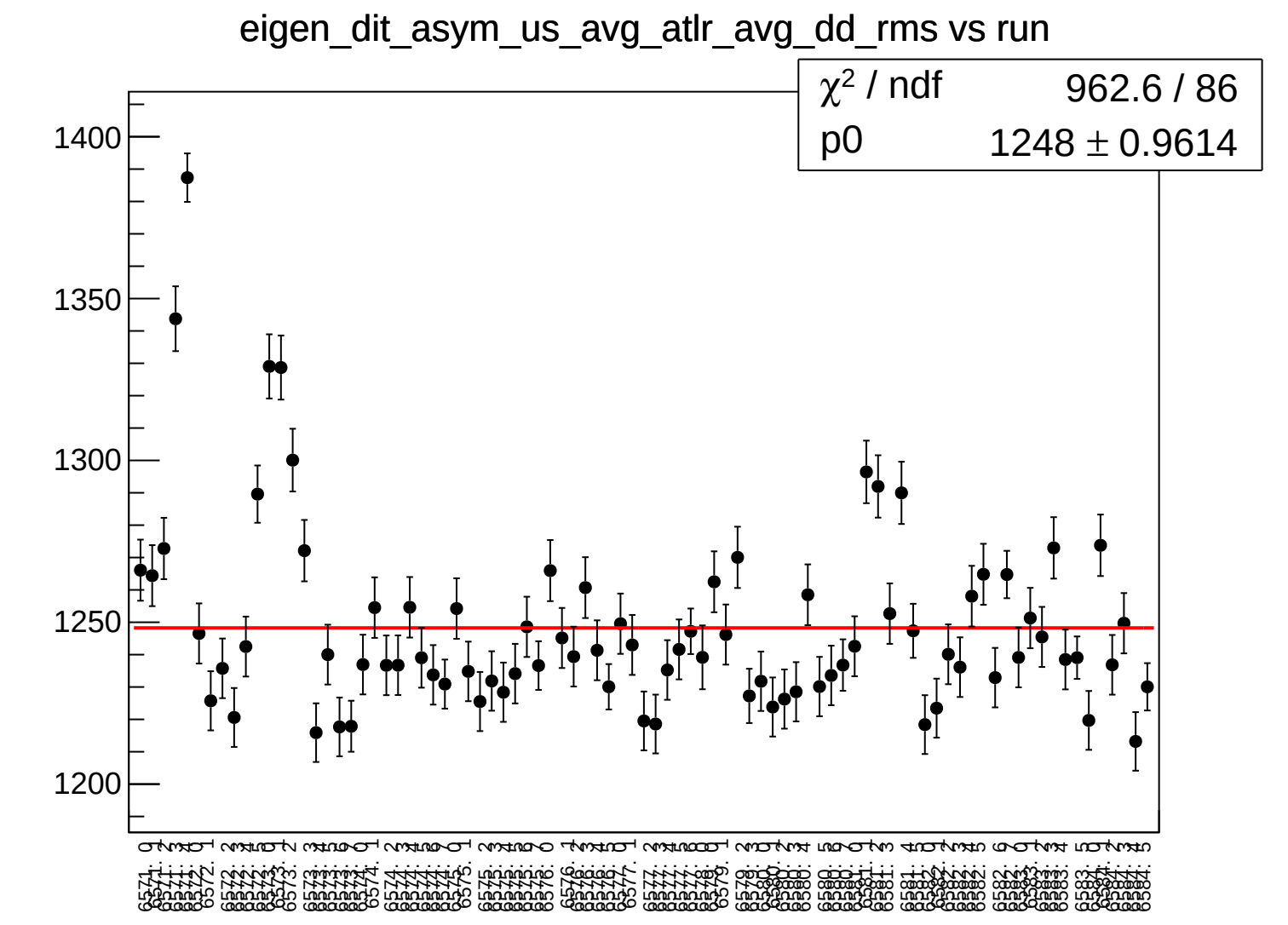

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.58 / 86
p0 −3098 ± 3849
150
100
50
0
−50
−100
pull
Entries 87
Mean −847
Std Dev 0
2
1
0
−1
−2

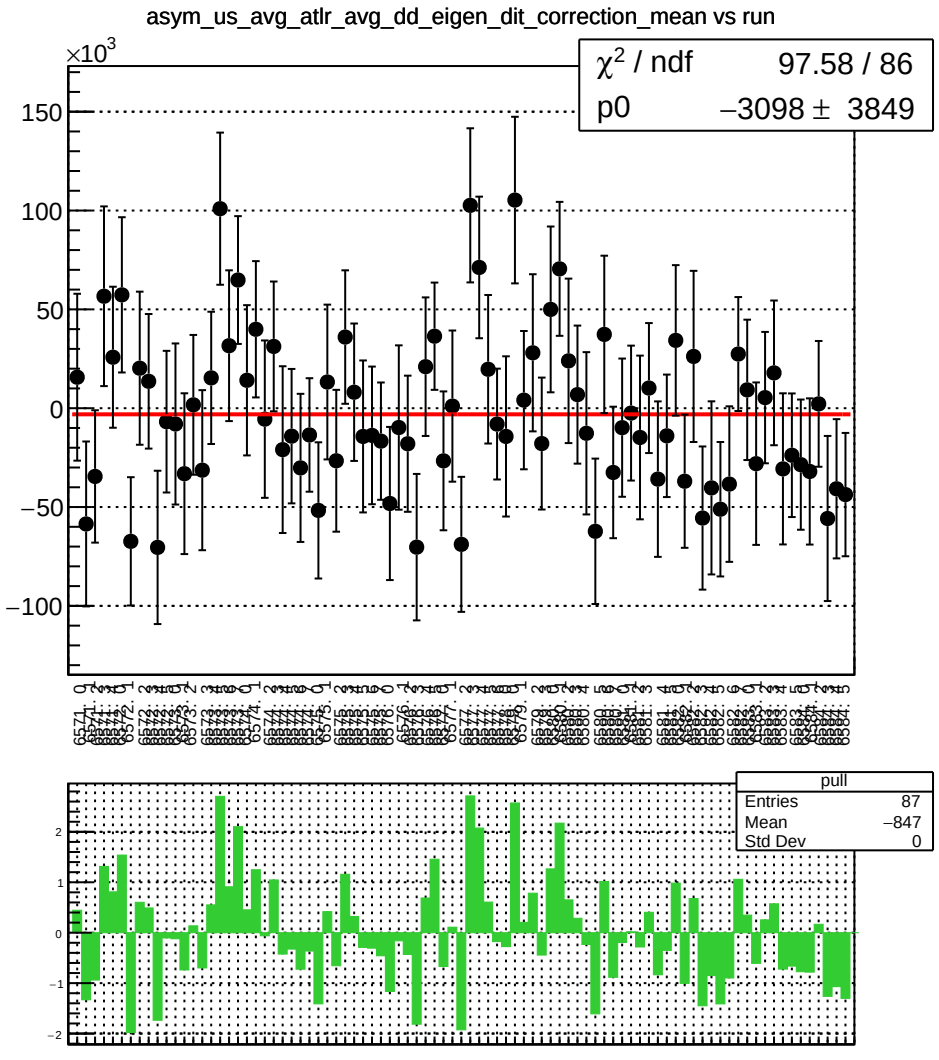

pull1D
Entries 87
Mean 0.004944
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

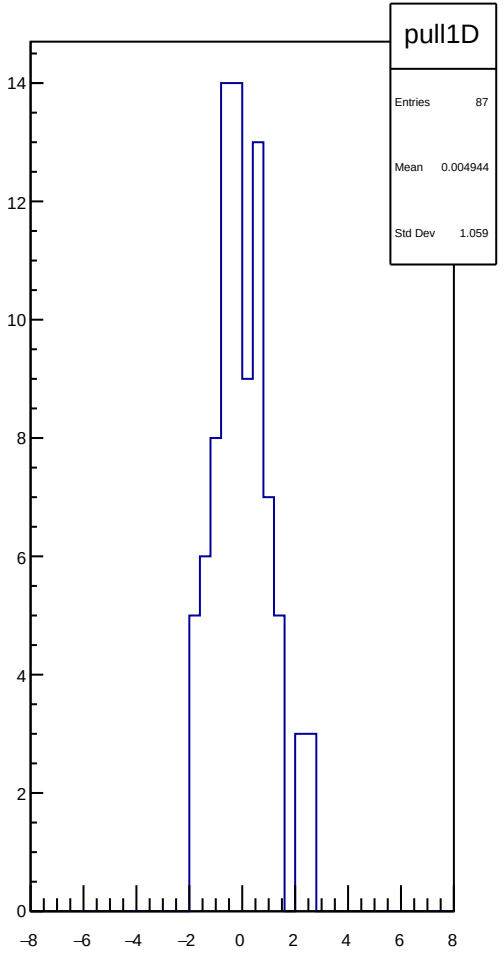

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.307e+04 / 86
p0 3521 ± 2.721
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

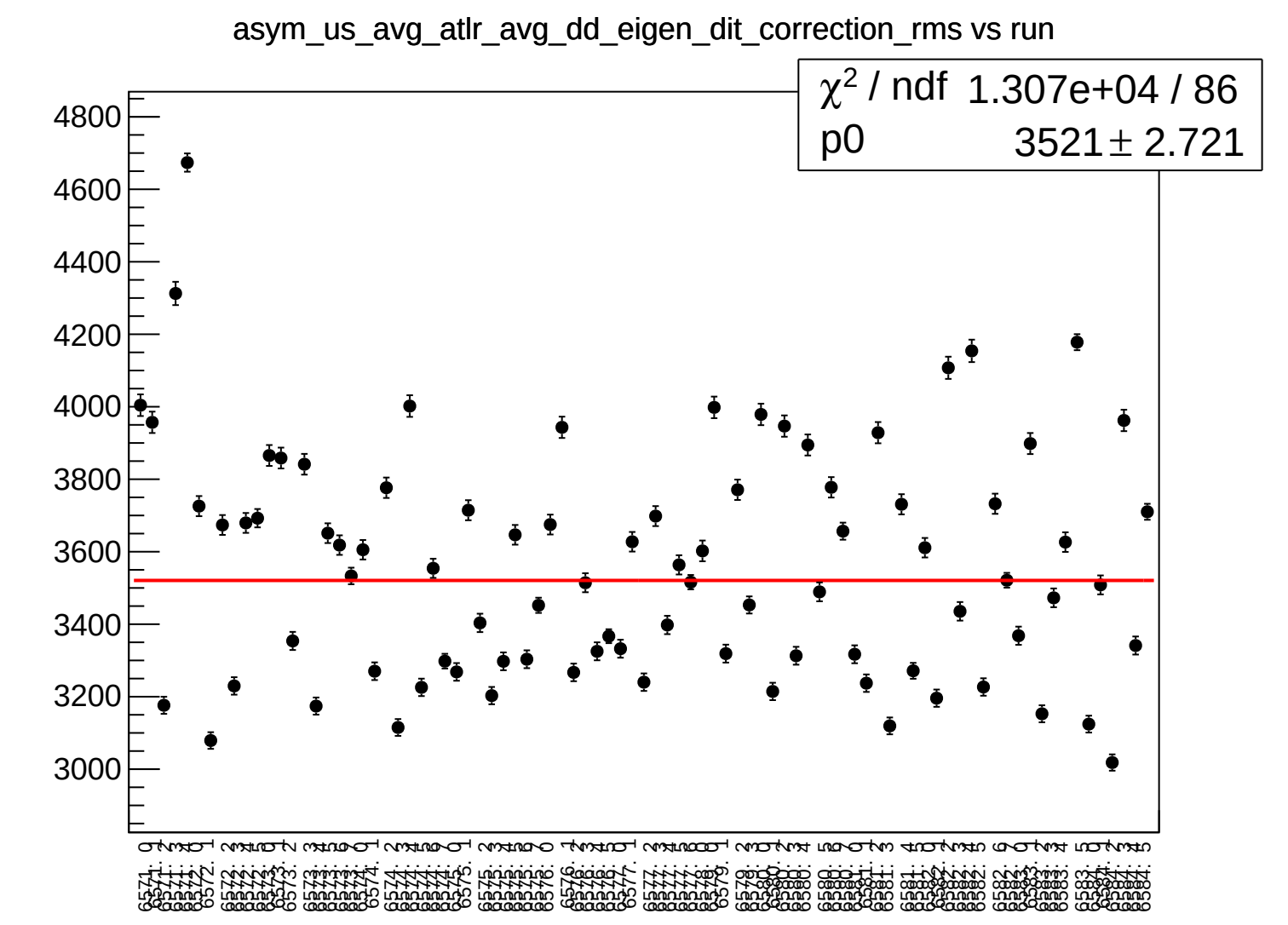

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.26 / 86
p0 1890 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 165.7
Std Dev 0
2
1
0
−1
−2

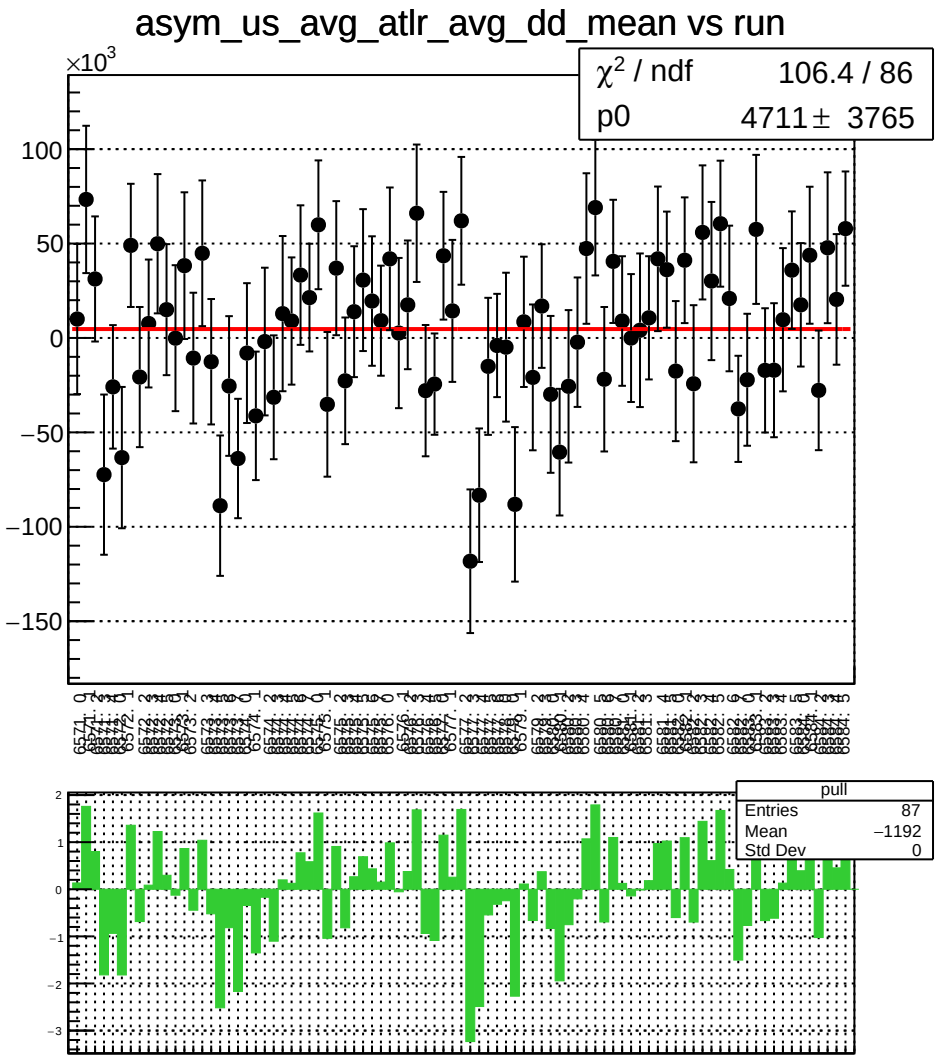

pull1D
Entries 87
Mean −0.006823
Std Dev 1.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

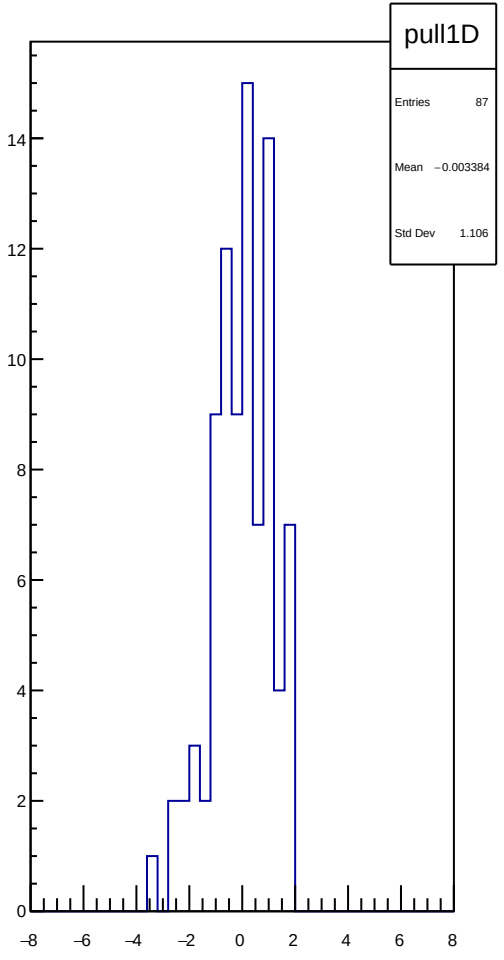

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 962.6 / 86
p0 1248 ± 0.9614
1400
1350
1300
1250
1200

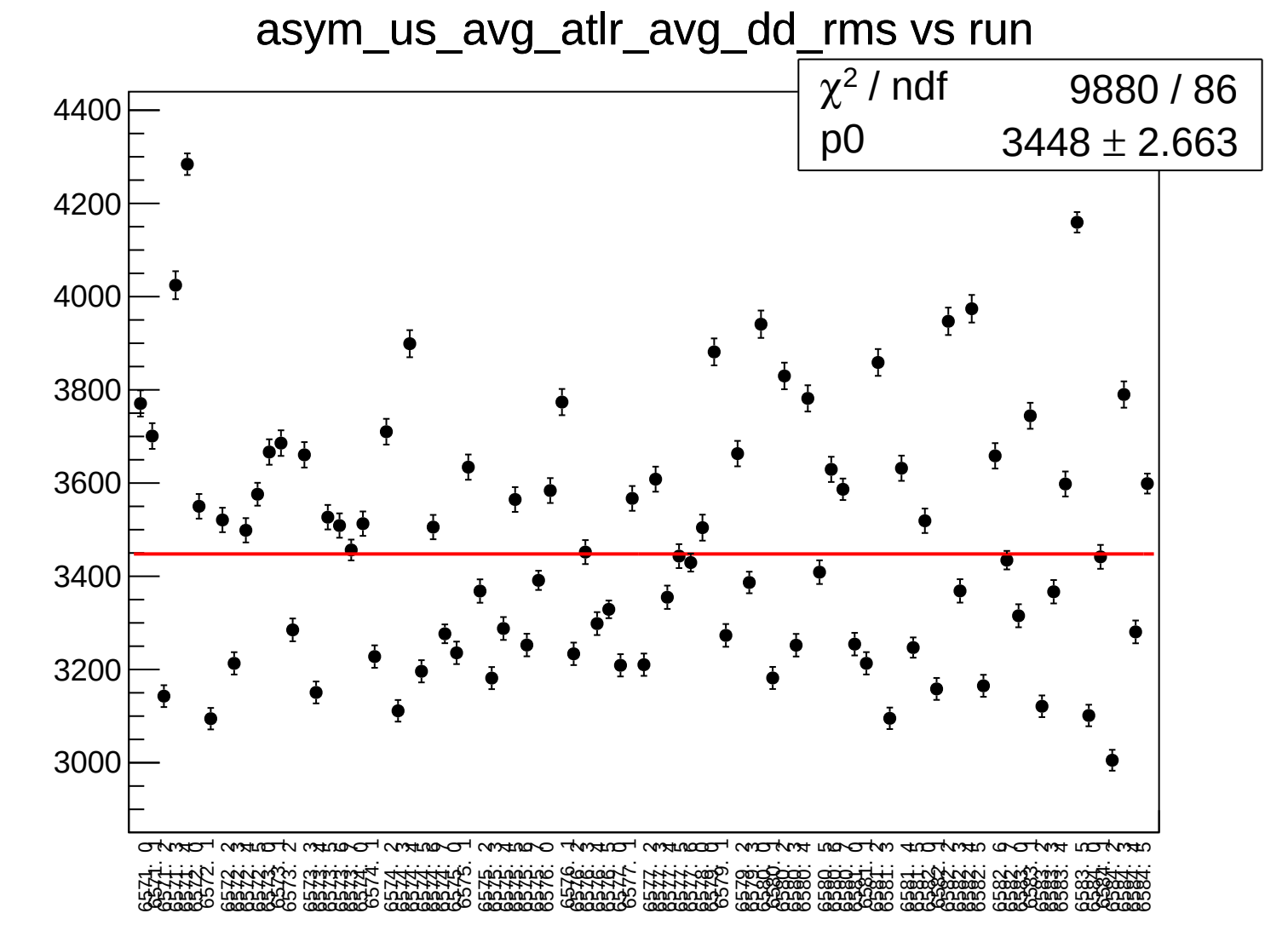

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.58 / 86
p0 −3098 ± 3849
150
100
50
0
−50
−100
pull
Entries 87
Mean −847
Std Dev 0
2
1
0
−1
−2

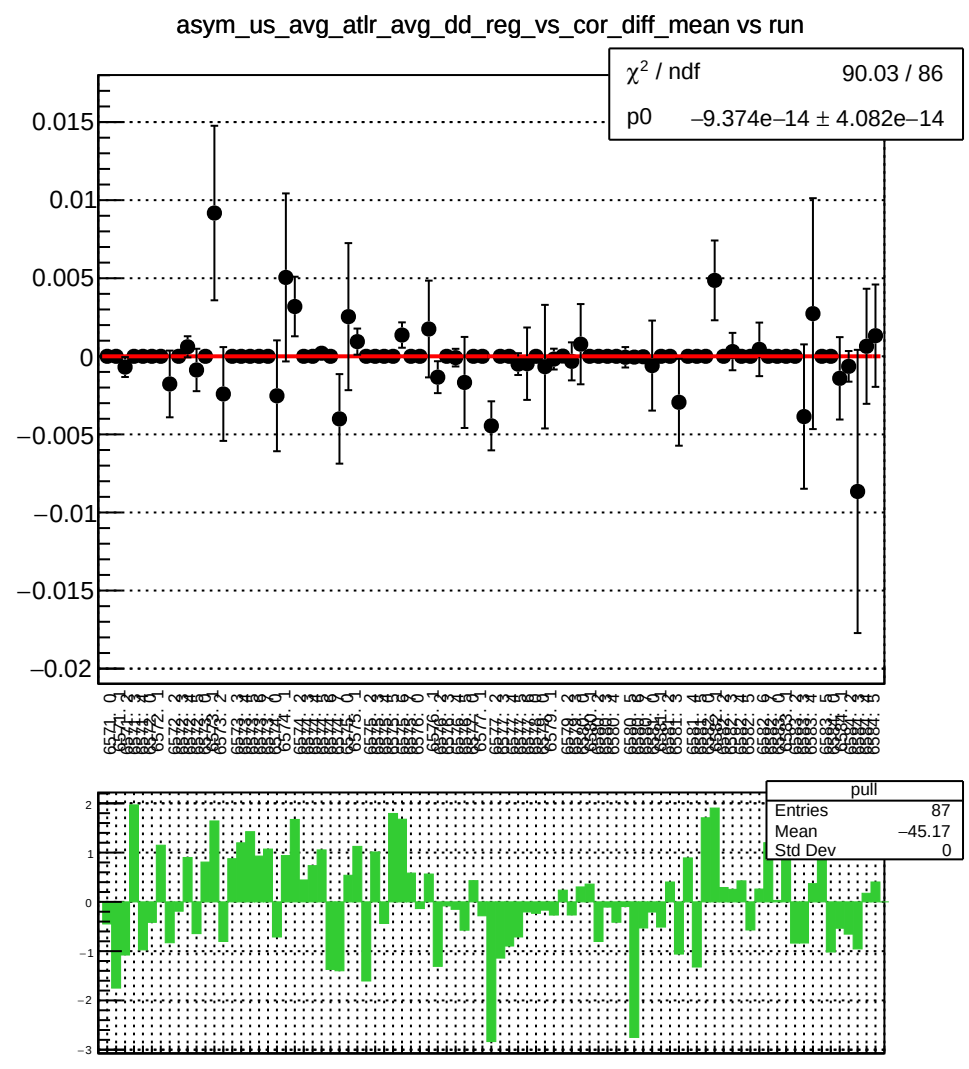

pull1D
Entries 87
Mean 0.004944
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

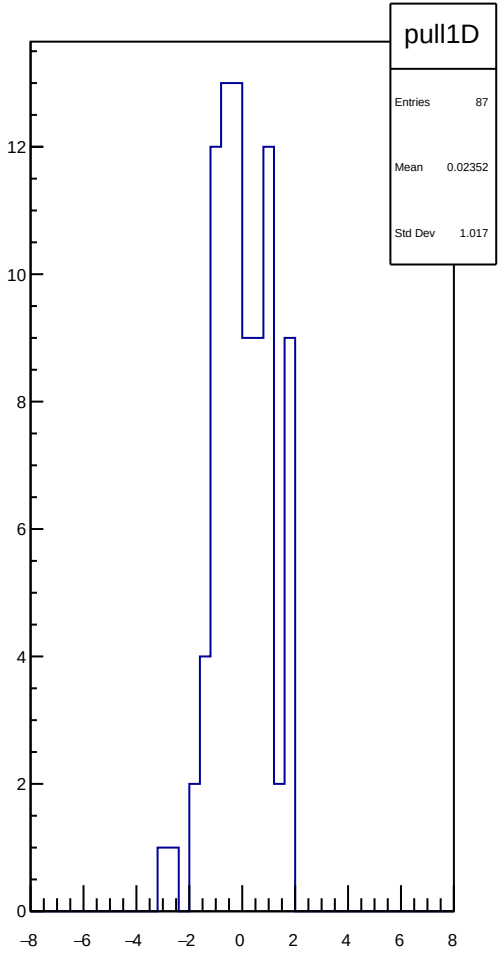

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.307e+04 / 86
p0 3521 ± 2.721
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

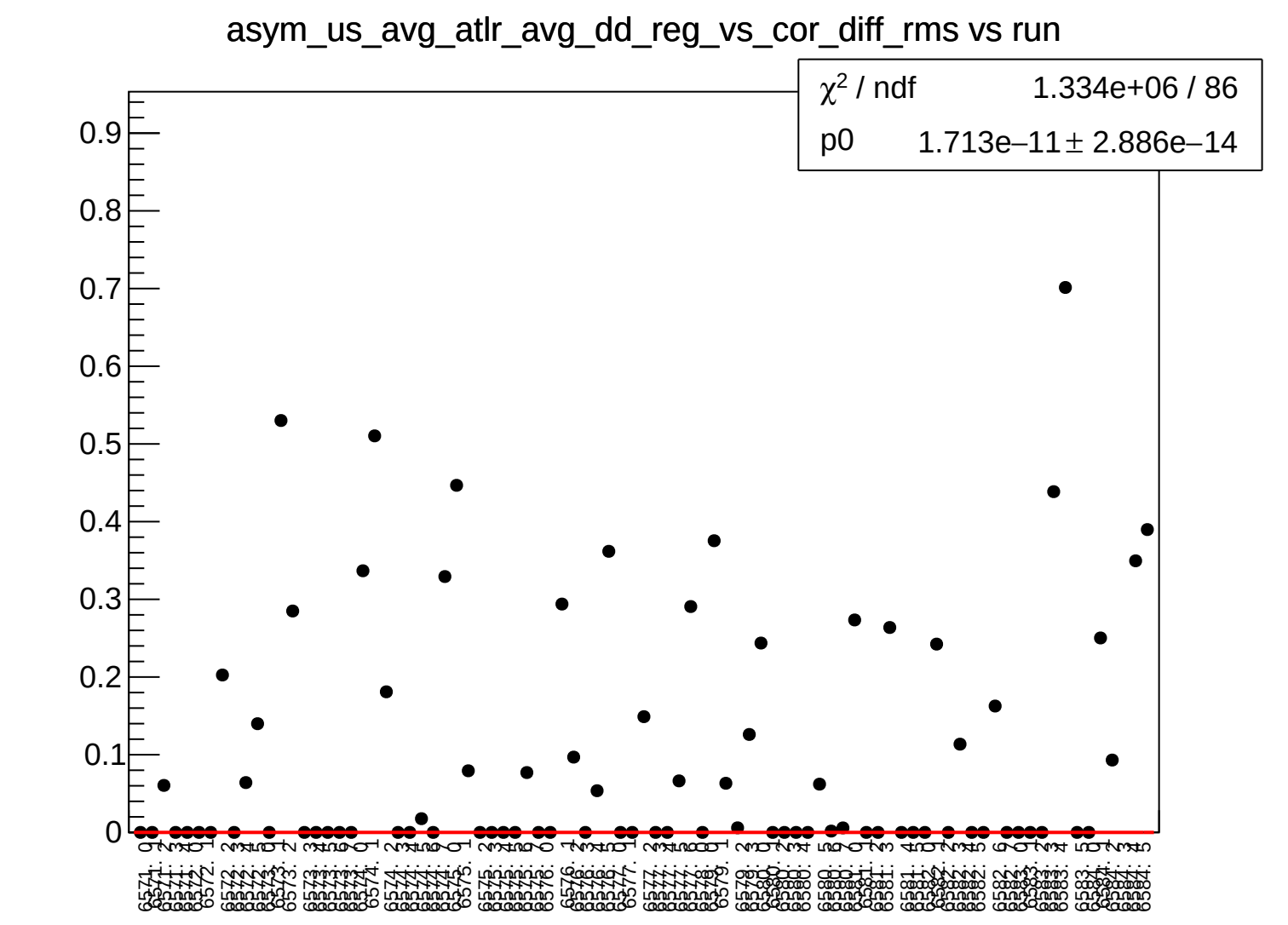

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 106.4 / 86
p0 4711 ± 3765
100
50
0
−50
−100
−150
pull
Entries 87
Mean −1192
Std Dev 0
2
1
0
−1
−2
−3

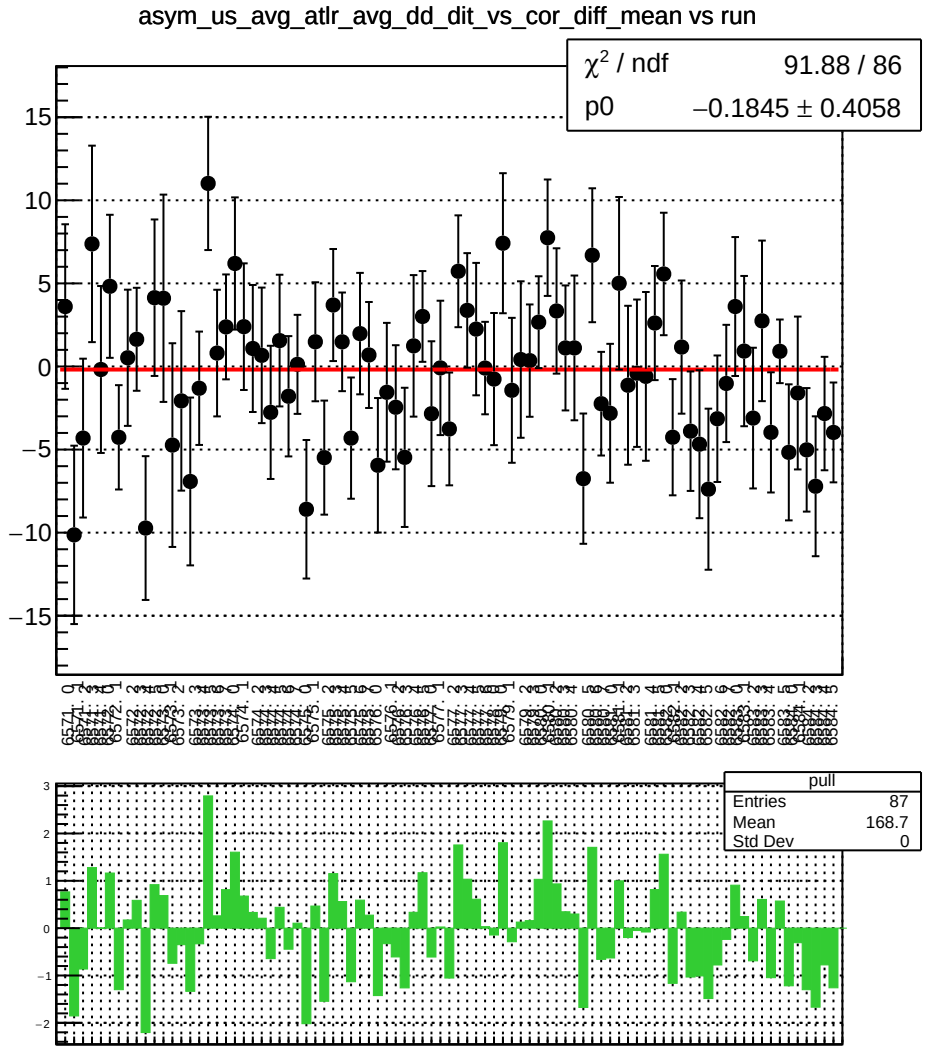

pull1D
Entries 87
Mean −0.003384
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

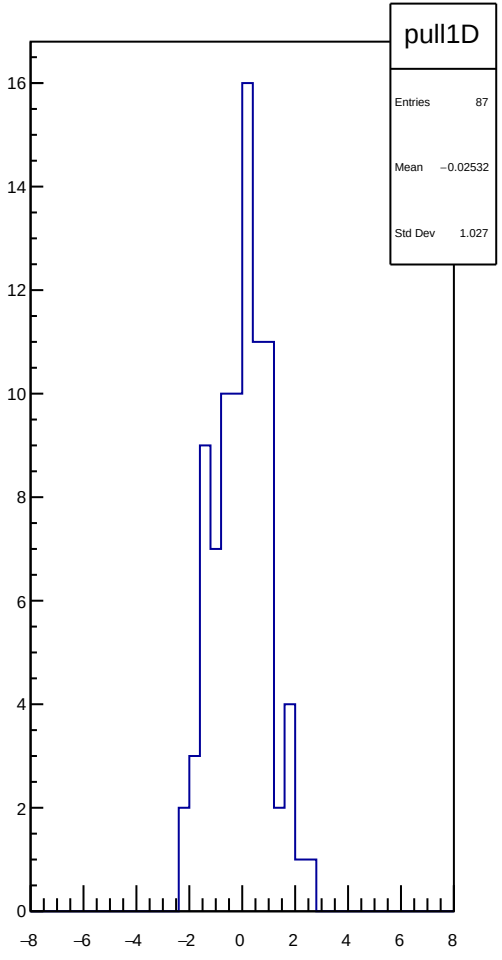

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 9880 / 86
p0 3448 ± 2.663
4400
4200
4000
3800
3600
3400
3200
3000

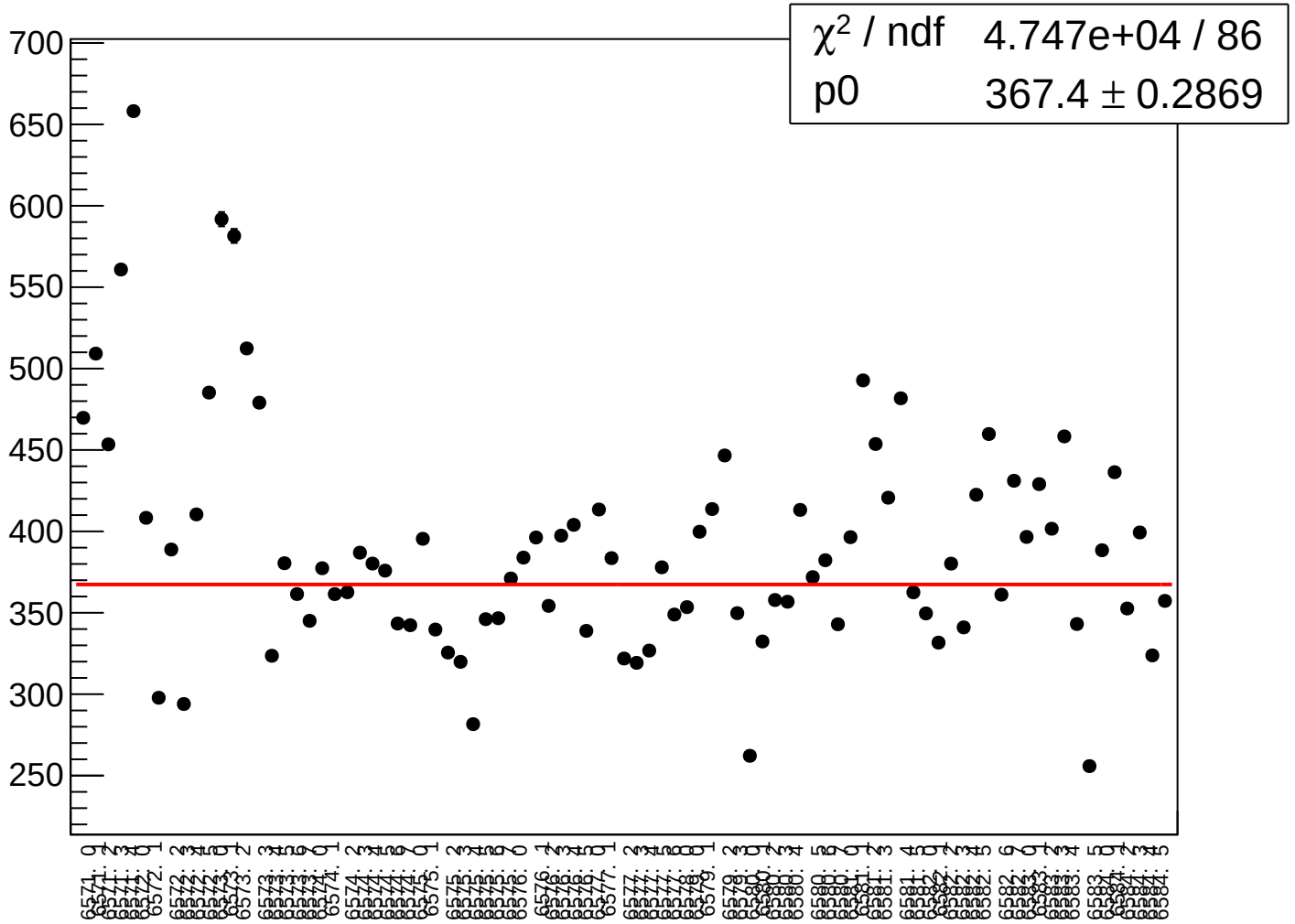

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.03 / 86
p0 −9.374e−14 ± 4.082e−14
pull
Entries 87
Mean −45.17
Std Dev 0

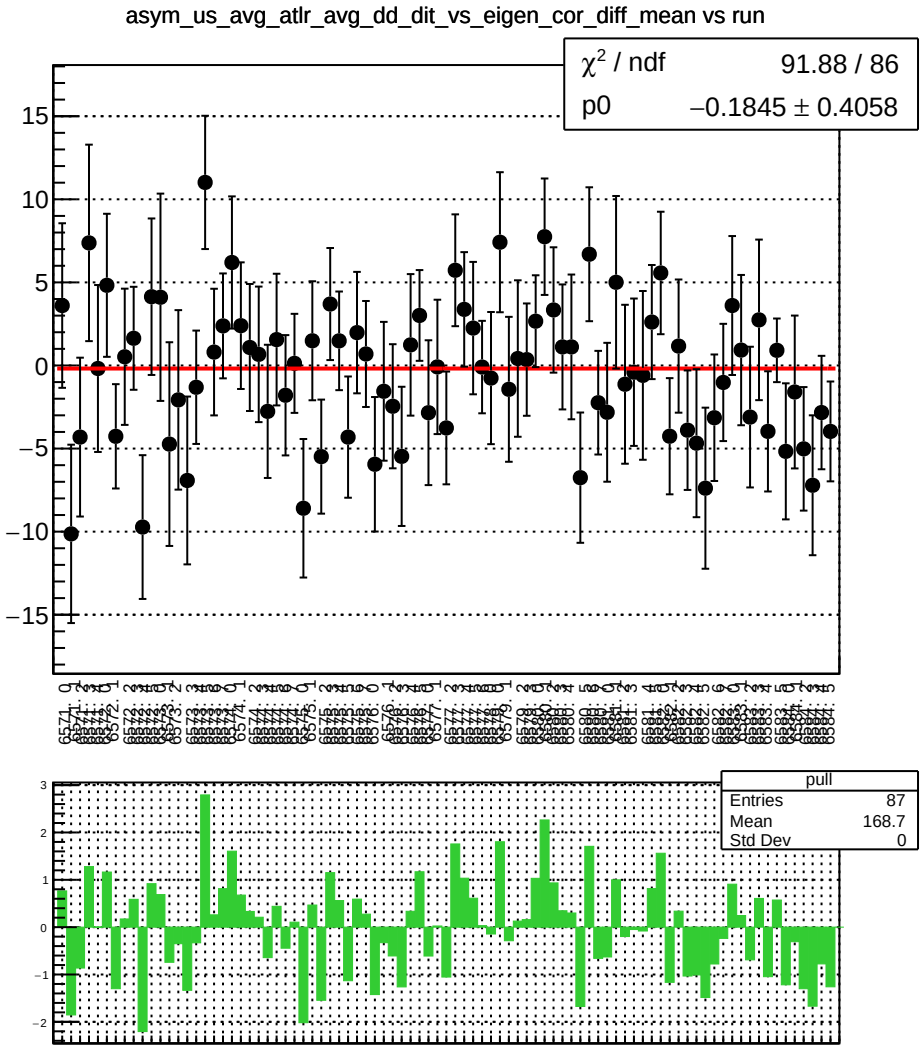

pull1D
Entries 87
Mean 0.02352
Std Dev 1.017

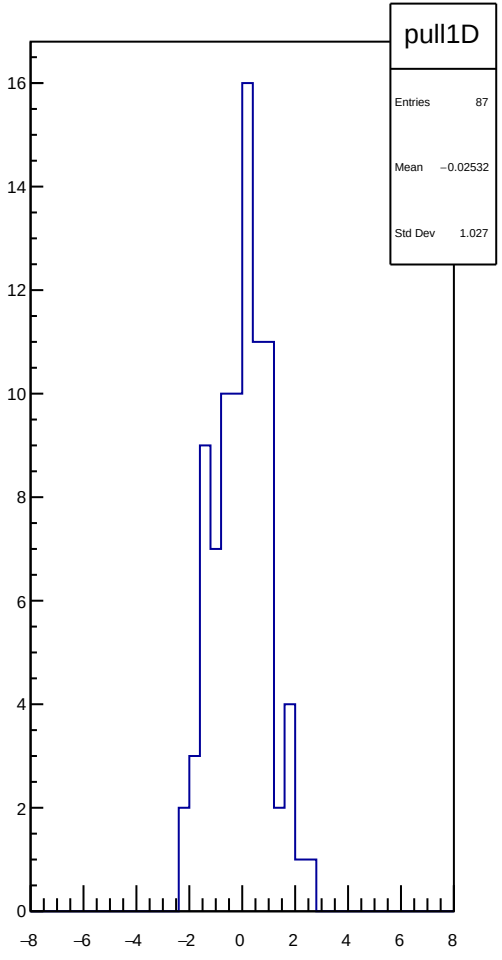

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.334e+06 / 86
p0 1.713e−11 ± 2.886e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

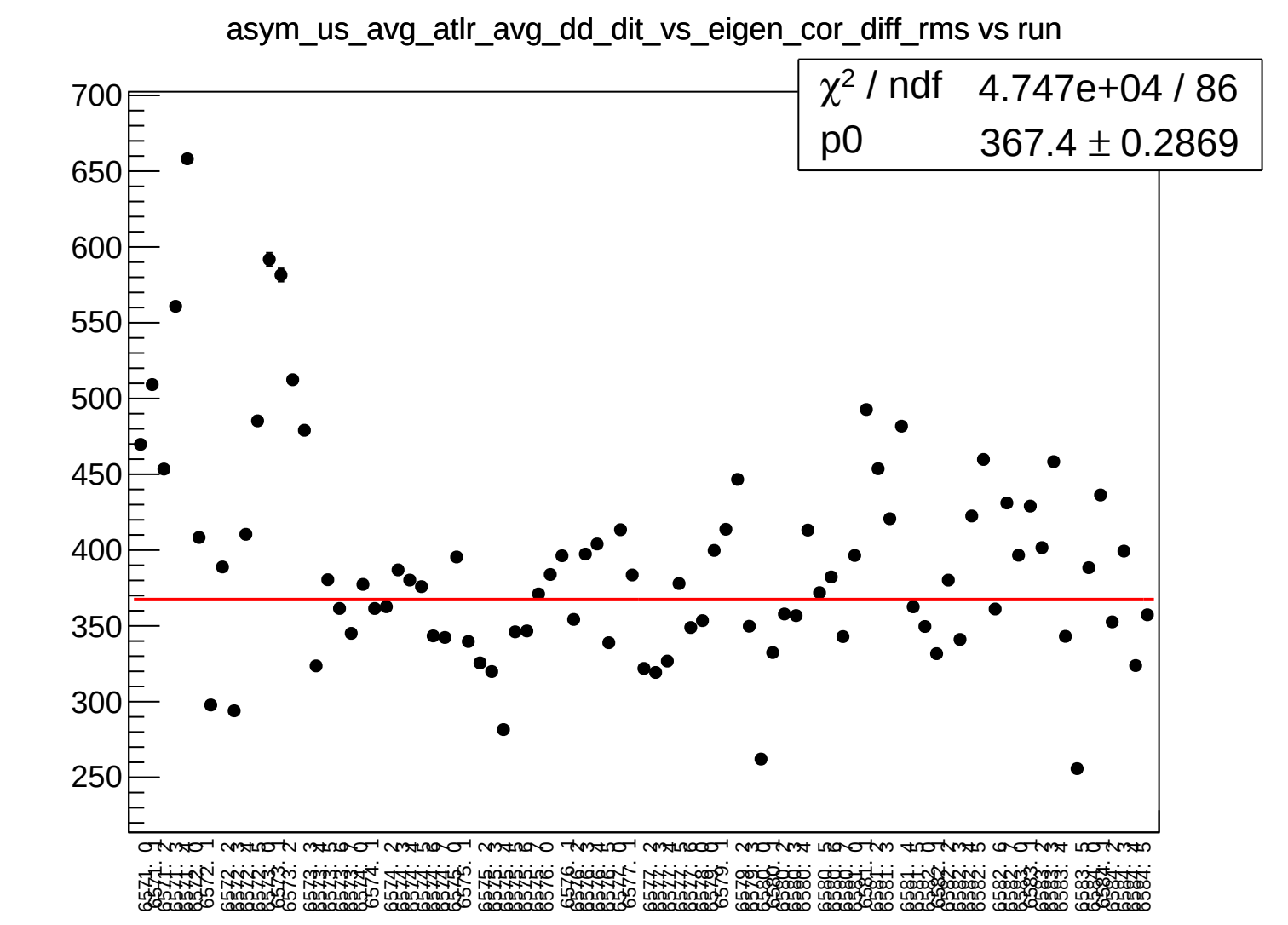

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.88 / 86
p0 −0.1845 ± 0.4058
pull
Entries 87
Mean 168.7
Std Dev 0

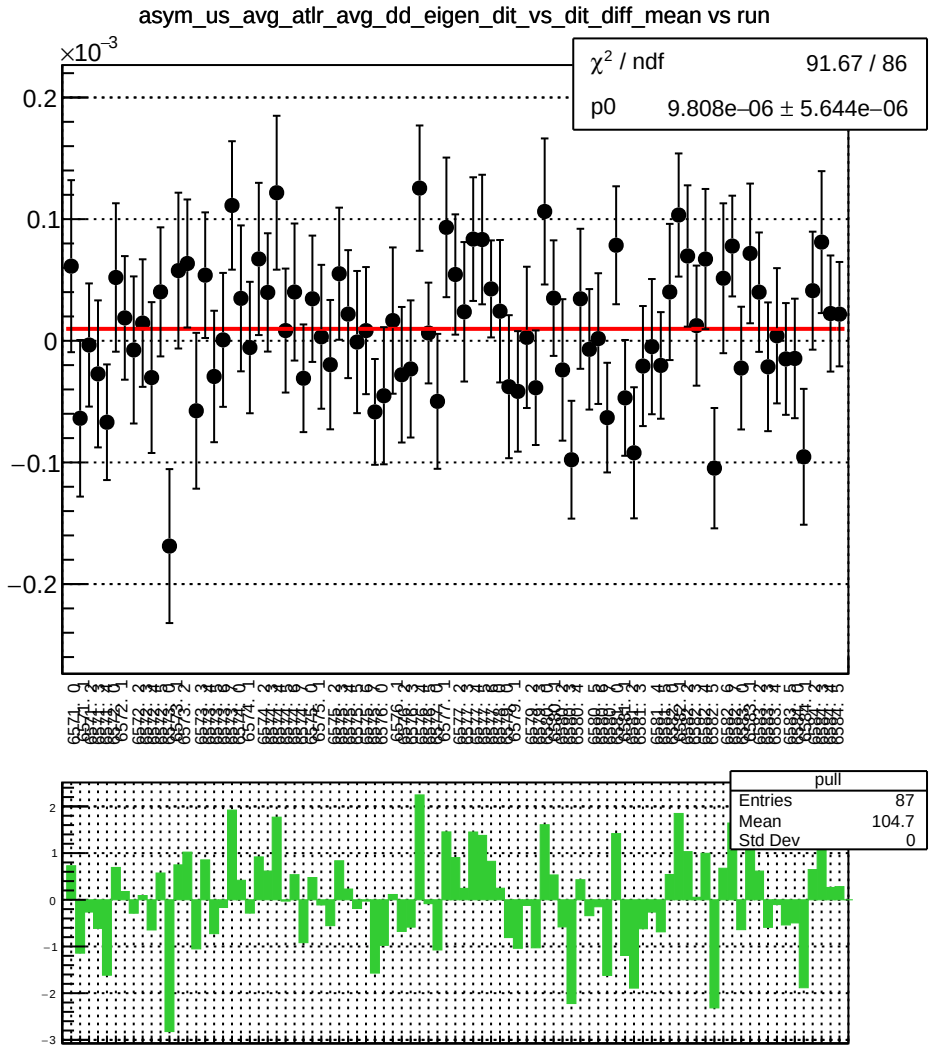

pull1D
Entries 87
Mean −0.02532
Std Dev 1.027

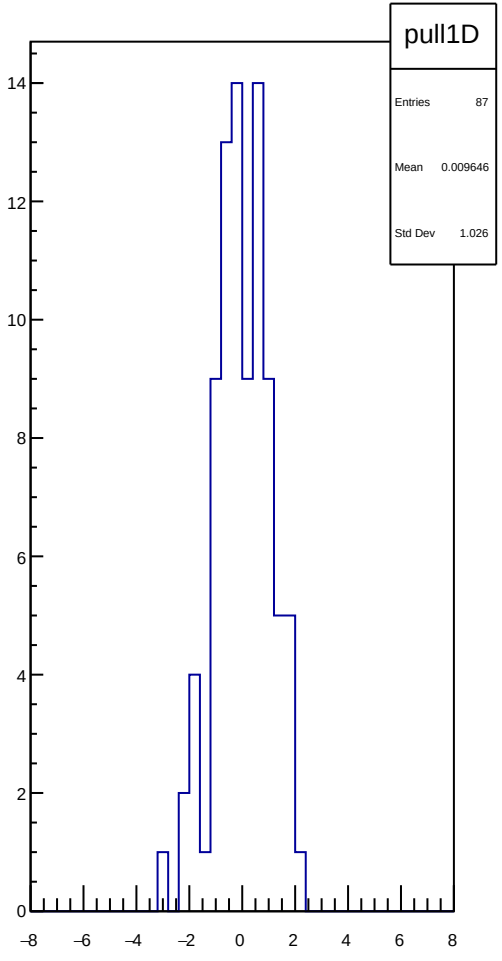

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.747e+04 / 86
p0 367.4 ± 0.2869
700
650
600
550
500
450
400
350
300
250

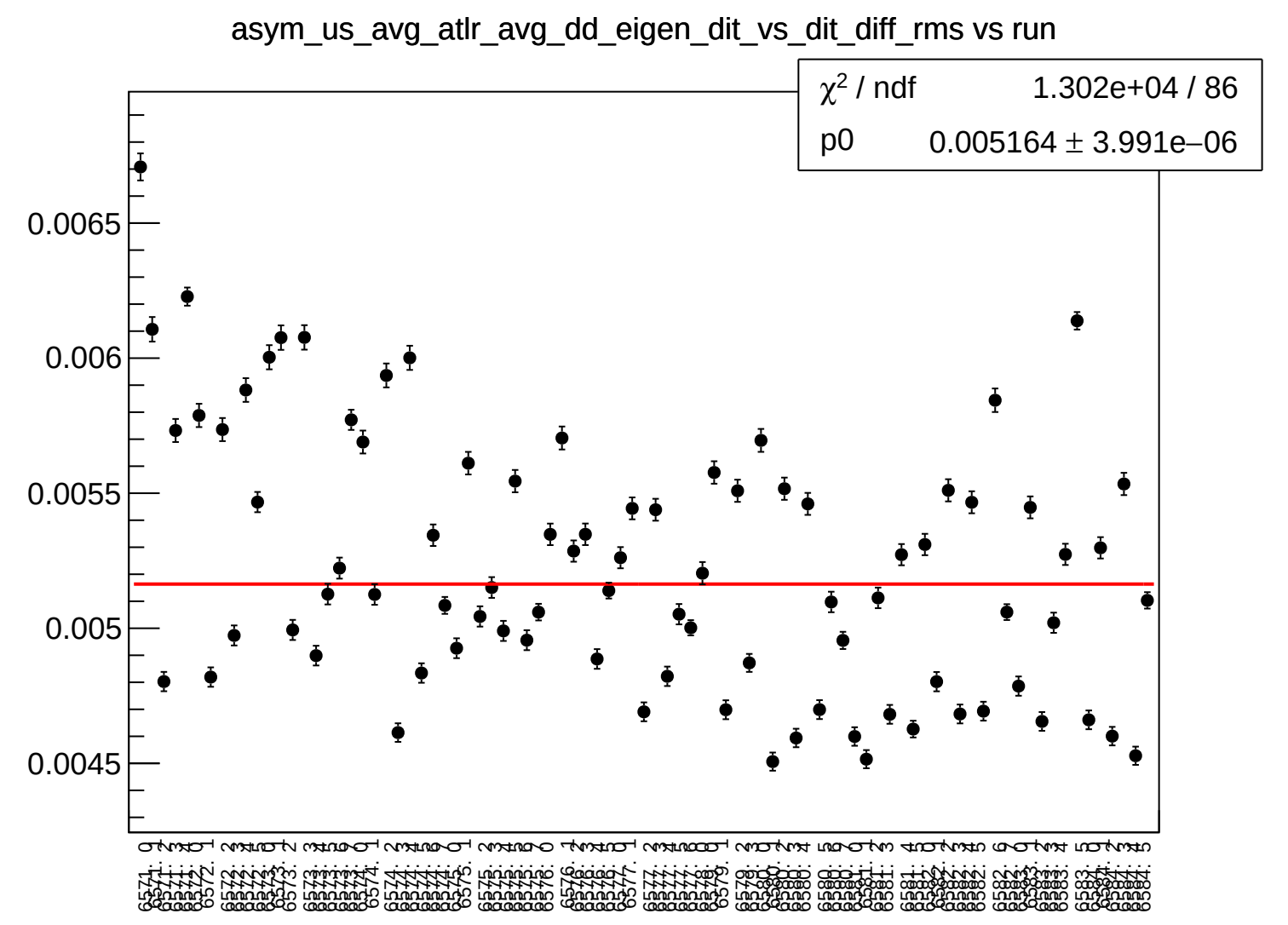

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.88 / 86
p0 −0.1845 ± 0.4058
pull
Entries 87
Mean 168.7
Std Dev 0

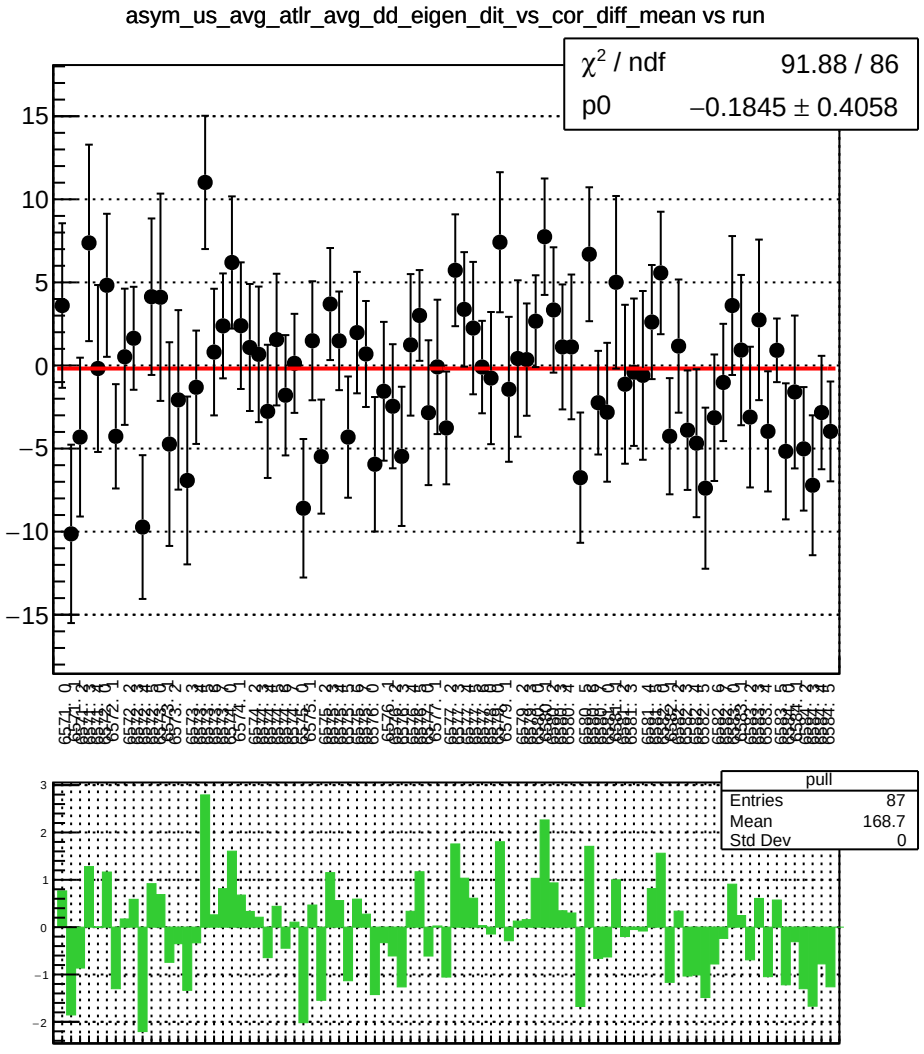

pull1D
Entries 87
Mean −0.02532
Std Dev 1.027

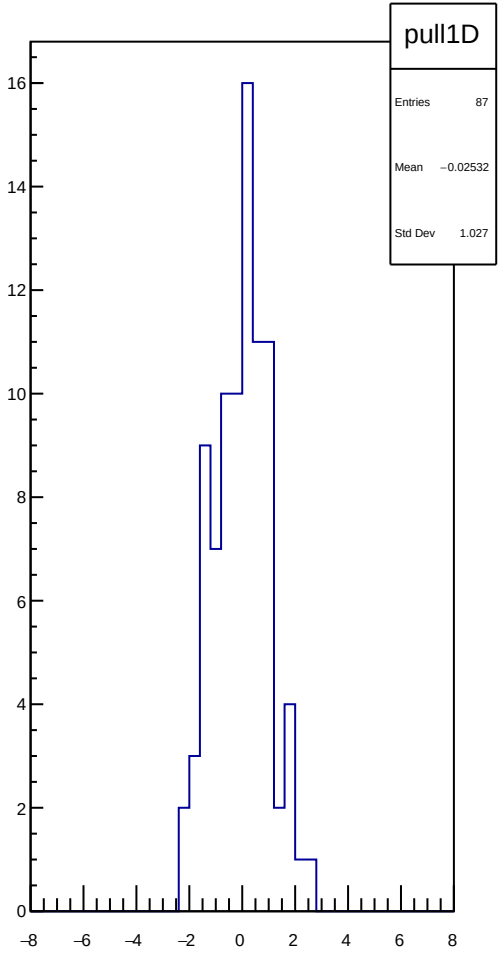

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.747e+04 / 86
p0 367.4 ± 0.2869
700
650
600
550
500
450
400
350
300
250

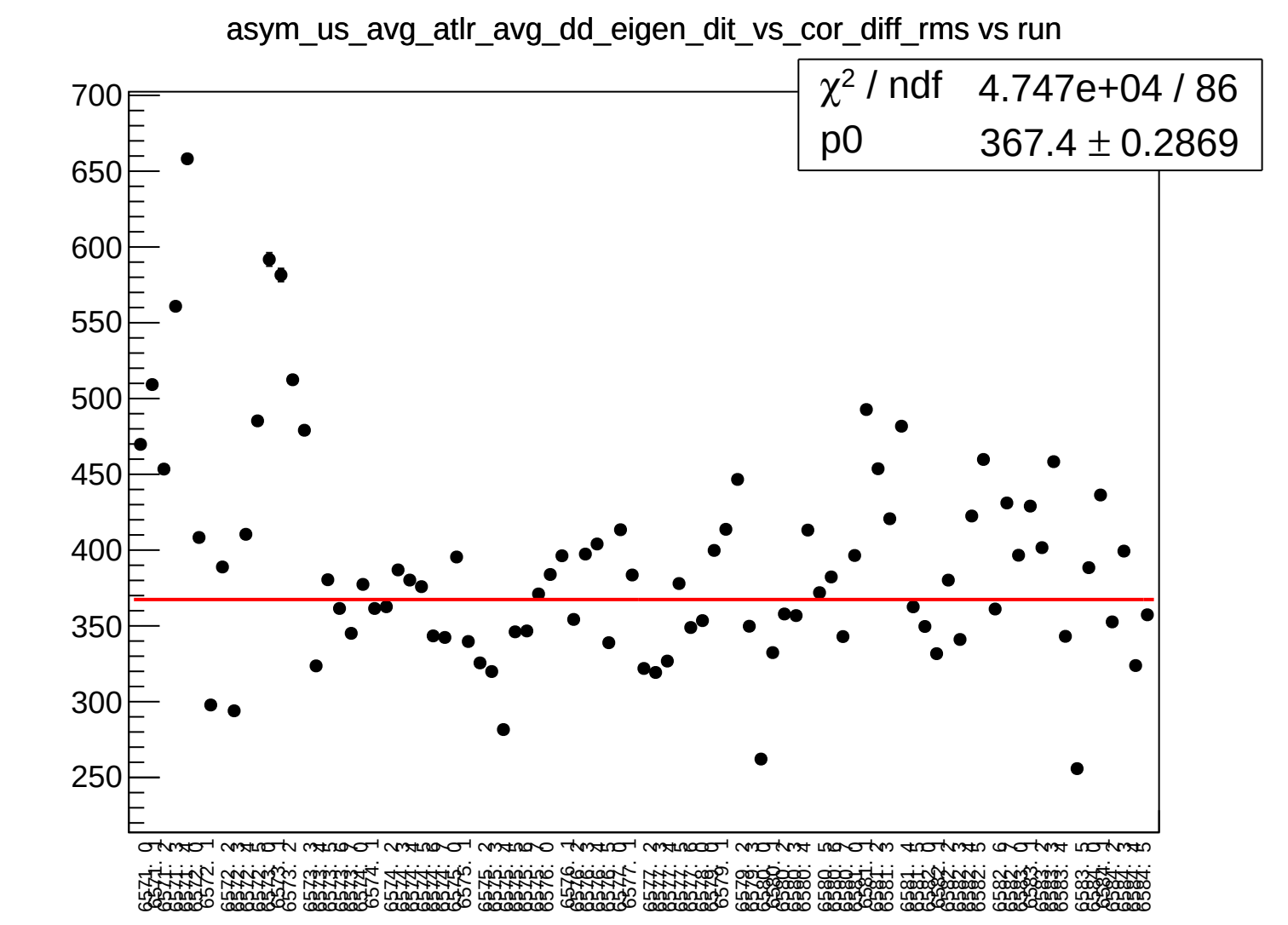

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.67 / 86
p0 9.808e−06 ± 5.644e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 87
Mean 104.7
Std Dev 0
2
1
0
−1
−2
−3

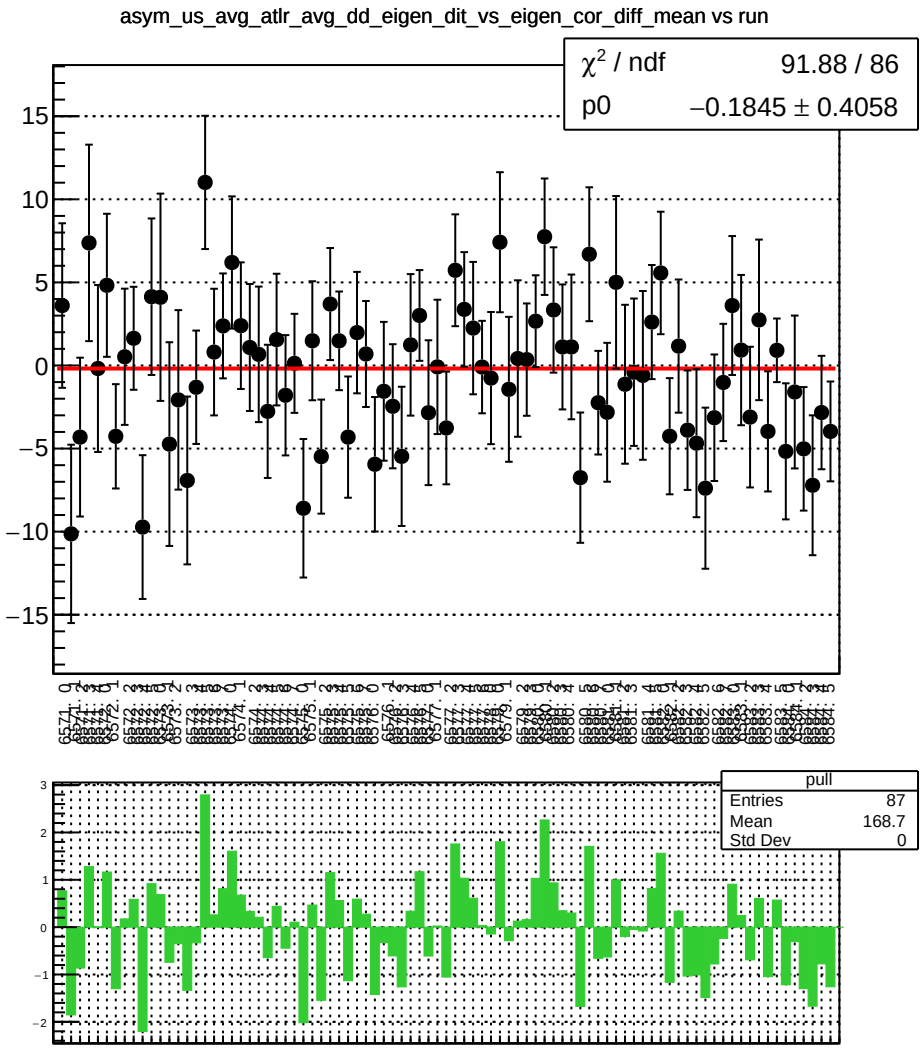

pull1D
Entries 87
Mean 0.009646
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

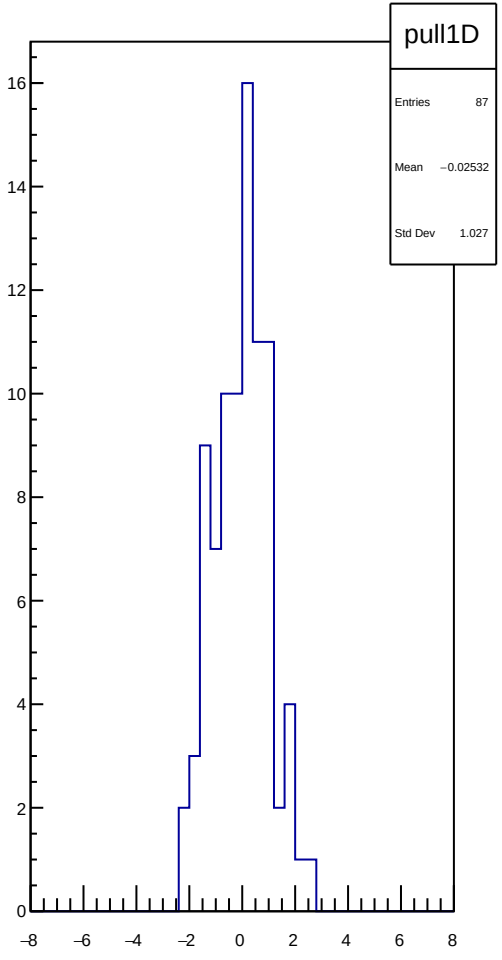

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.302e+04 / 86
p0 0.005164 ± 3.991e−06
0.0065
0.006
0.0055
0.005
0.0045

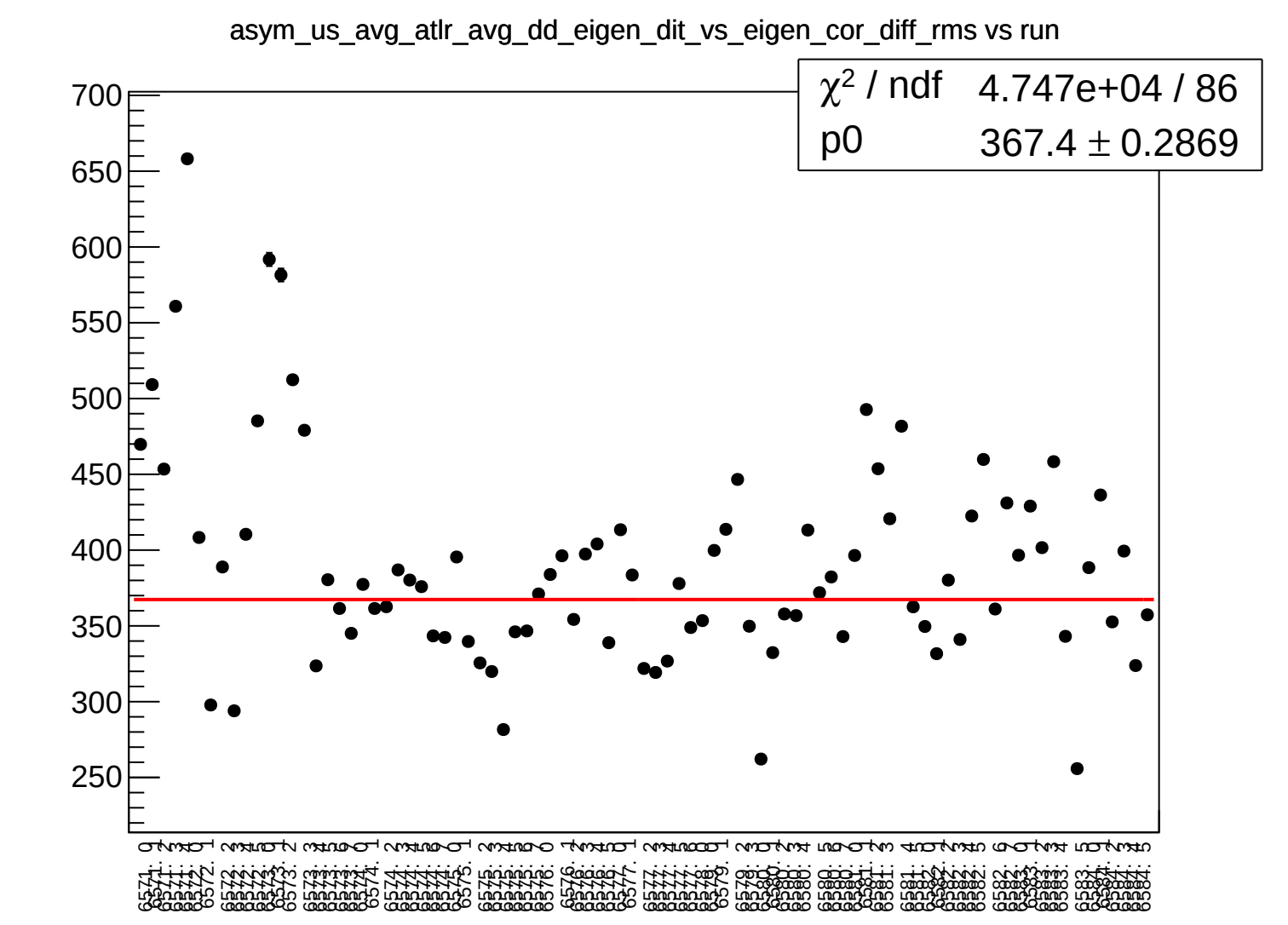

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.88 / 86
p0 −0.1845 ± 0.4058
pull
Entries 87
Mean 168.7
Std Dev 0

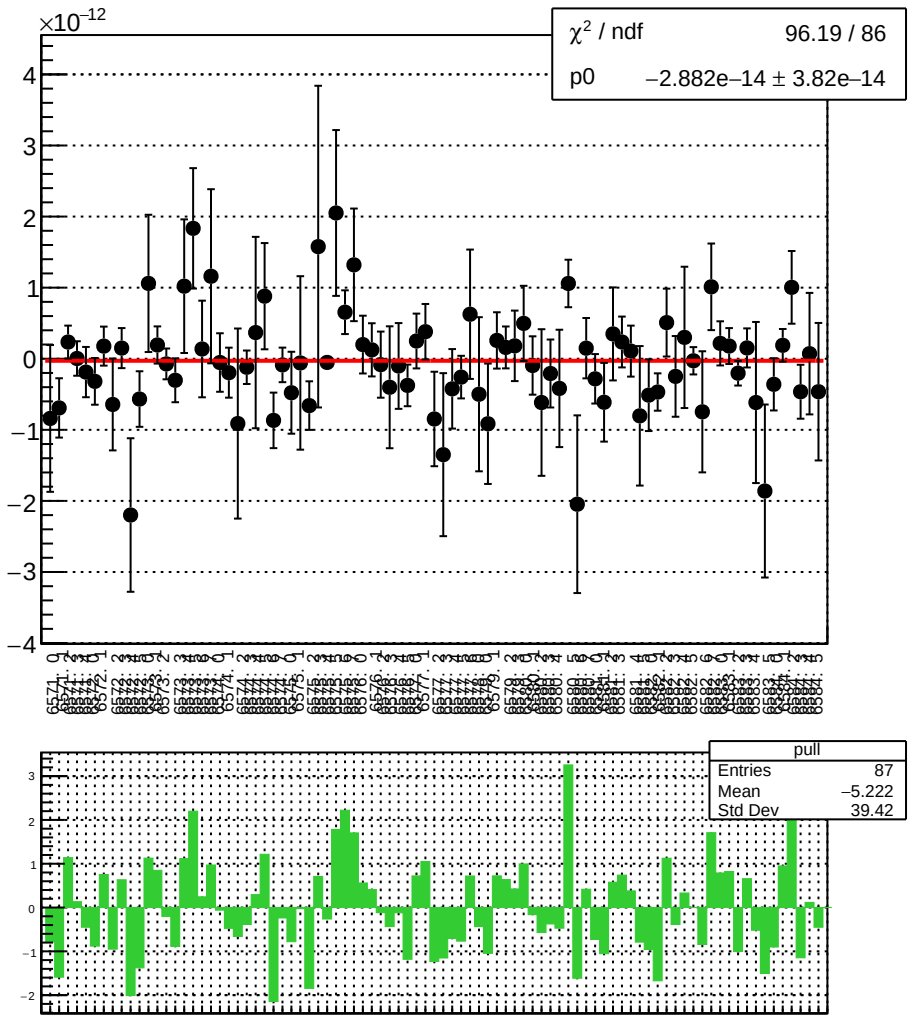

pull1D
Entries 87
Mean −0.02532
Std Dev 1.027

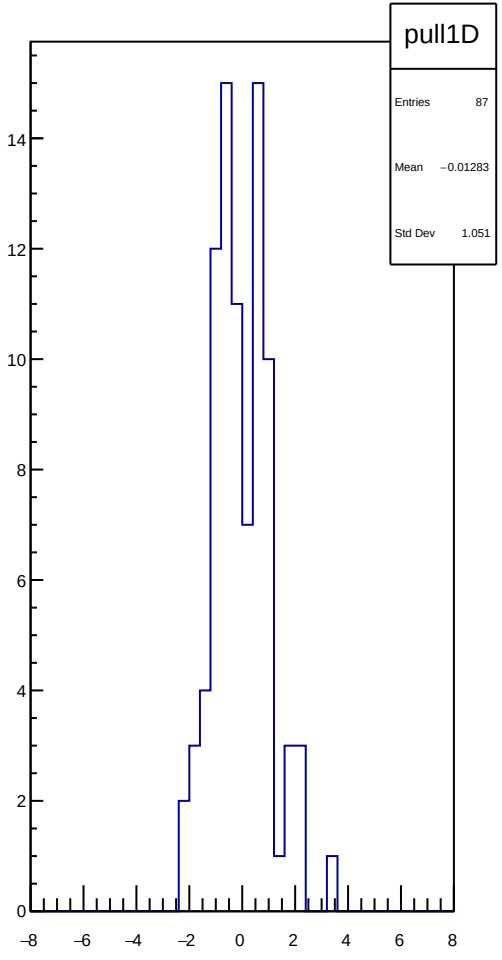

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.747e+04 / 86
p0 367.4 ± 0.2869
700
650
600
550
500
450
400
350
300
250

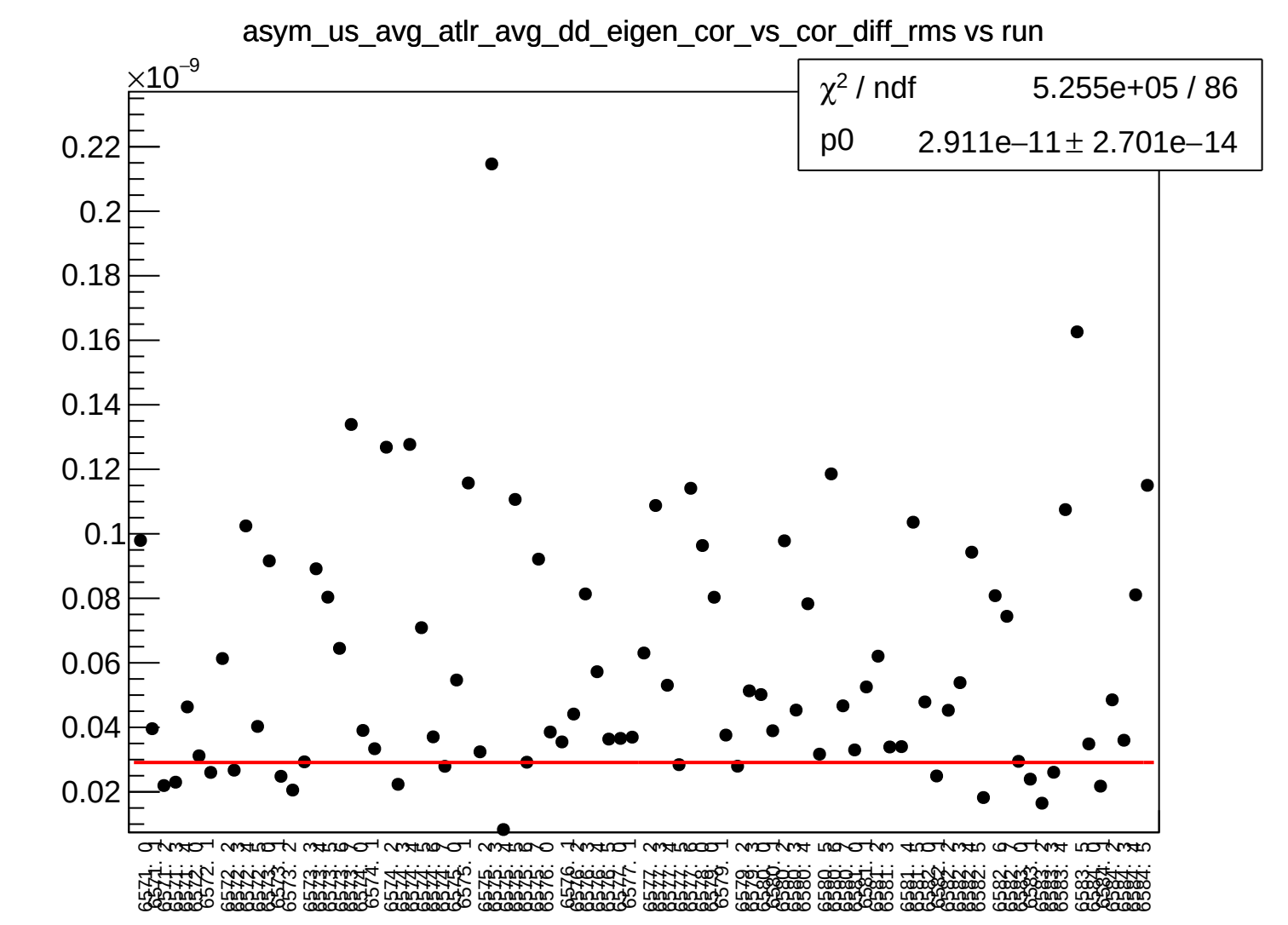

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.88 / 86
p0 −0.1845 ± 0.4058
pull
Entries 87
Mean 168.7
Std Dev 0

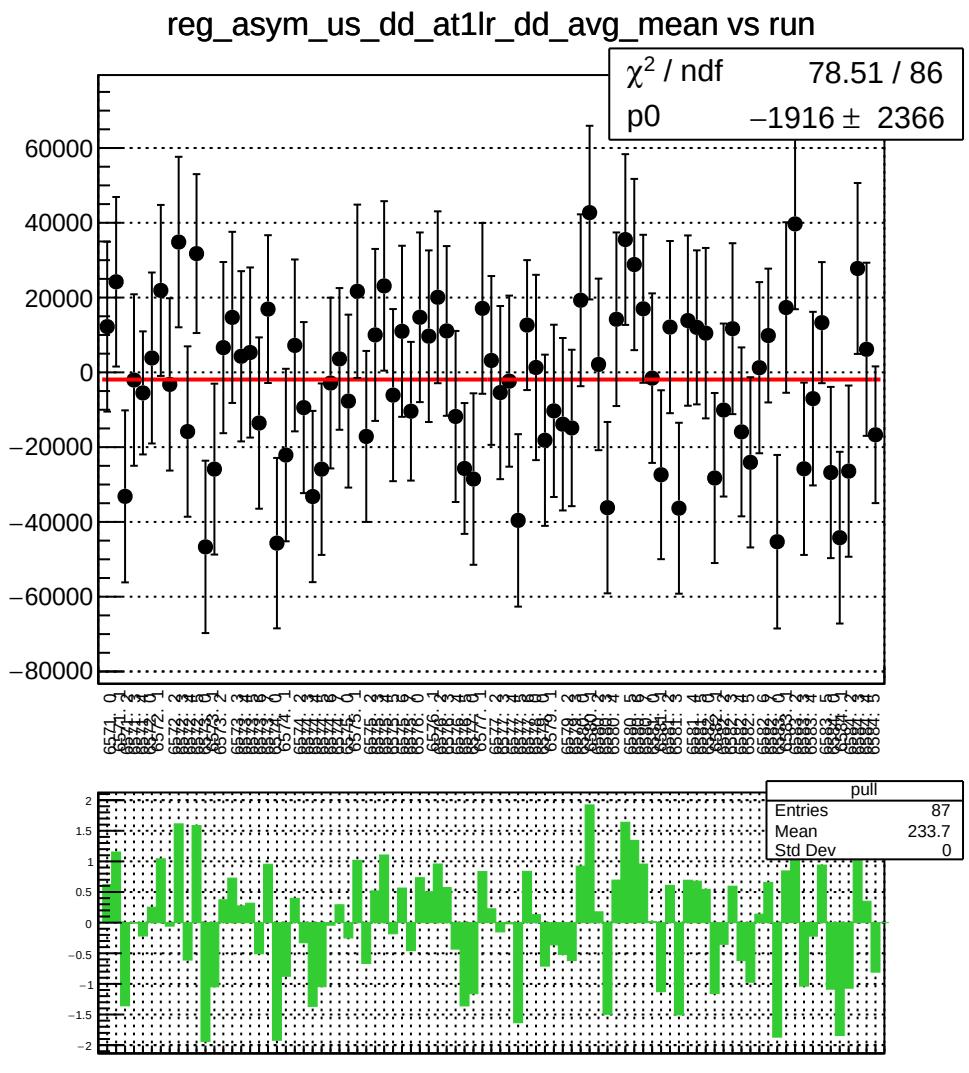

pull1D
Entries 87
Mean −0.02532
Std Dev 1.027

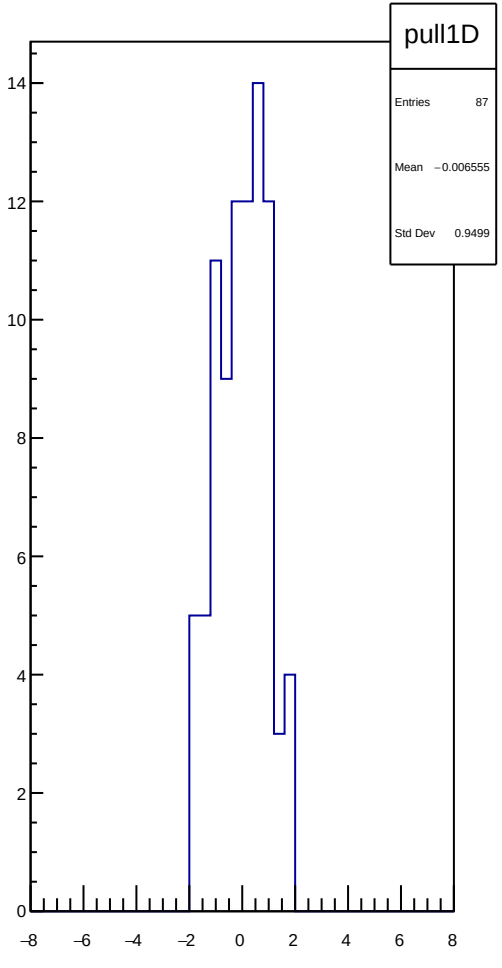

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.747e+04 / 86
p0 367.4 ± 0.2869
700
650
600
550
500
450
400
350
300
250

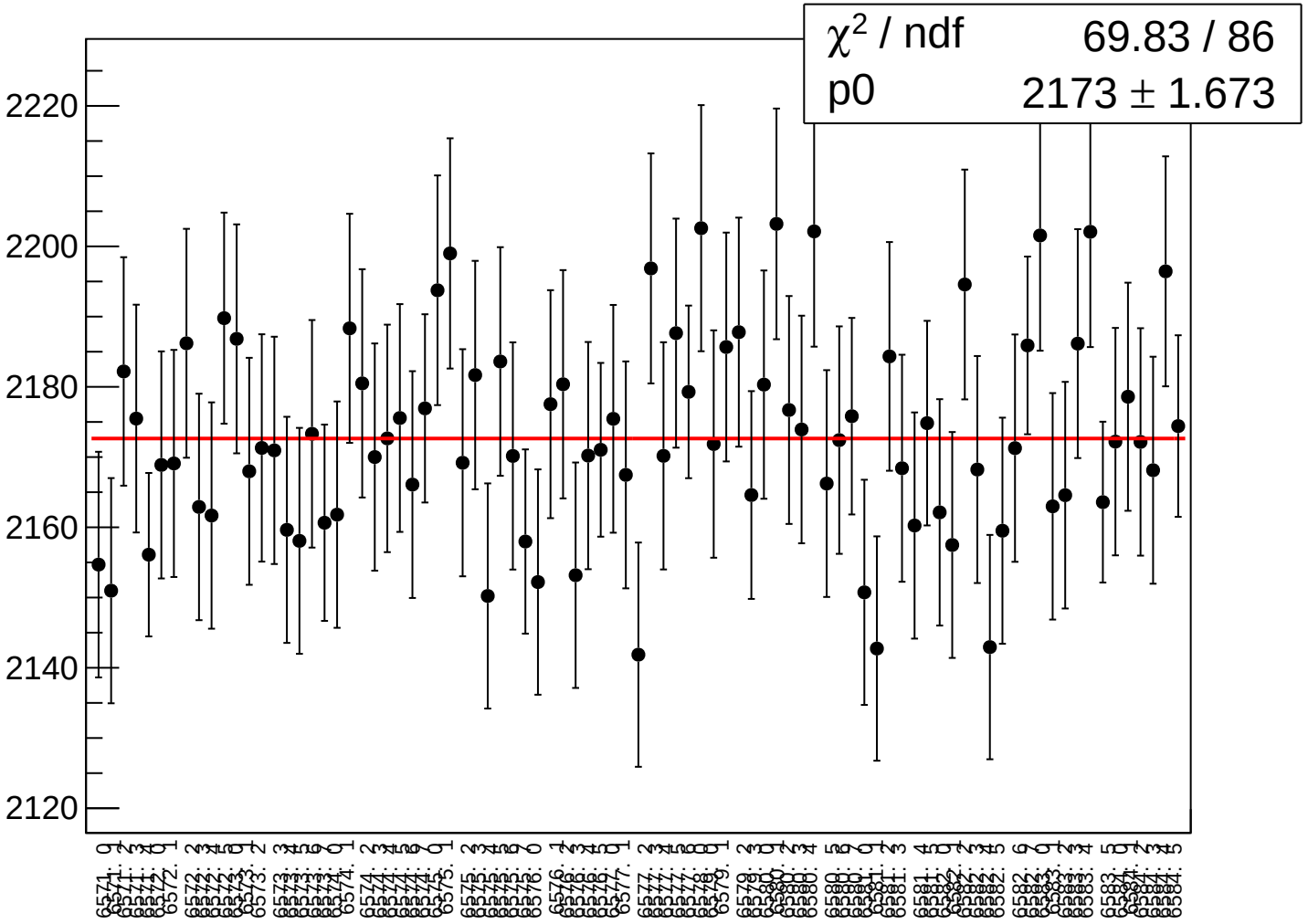

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.19 / 86
p0 −2.882e−14 ± 3.82e−14
pull
Entries 87
Mean −5.222
Std Dev 39.42

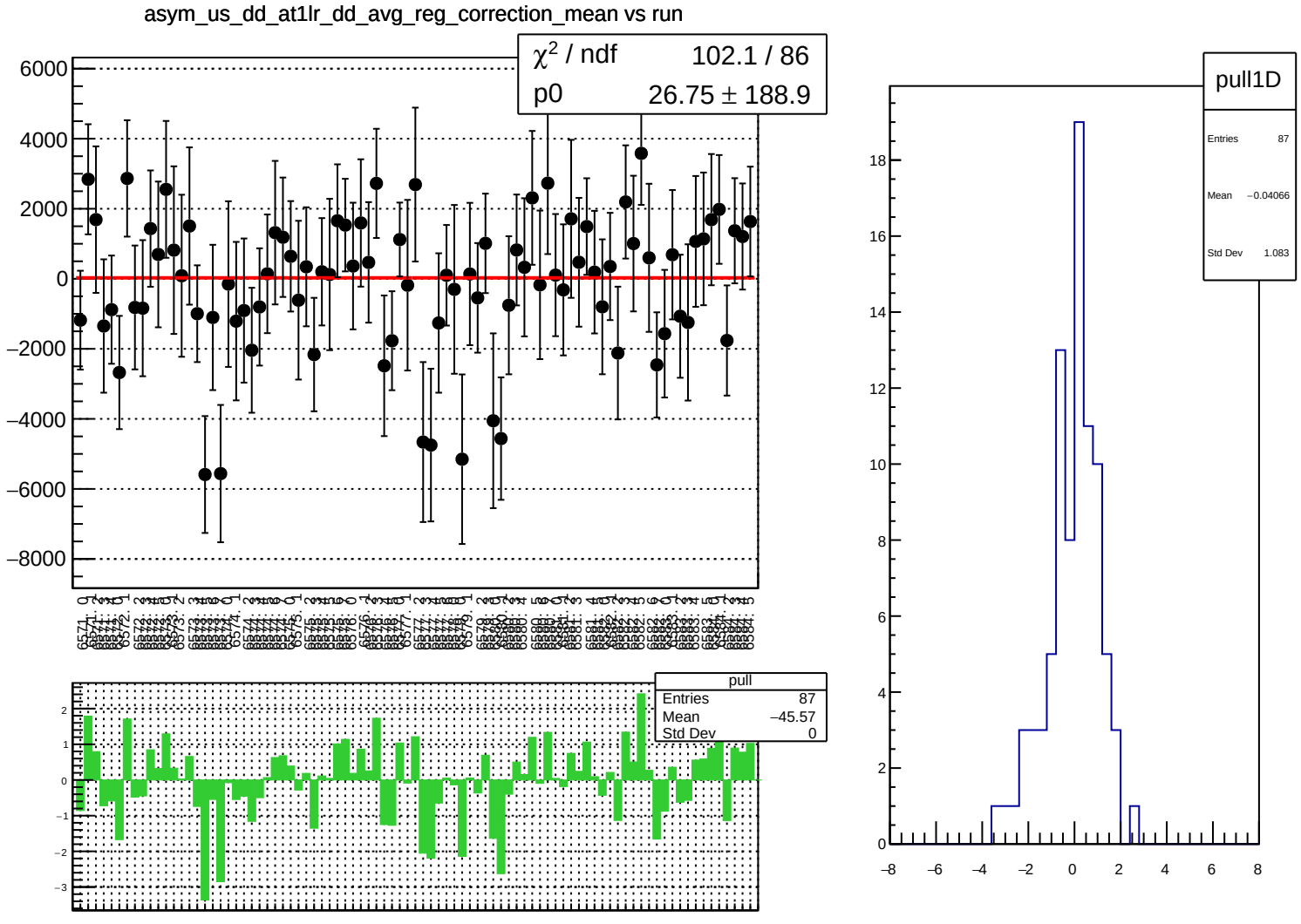

pull1D
Entries 87
Mean −0.01283
Std Dev 1.051

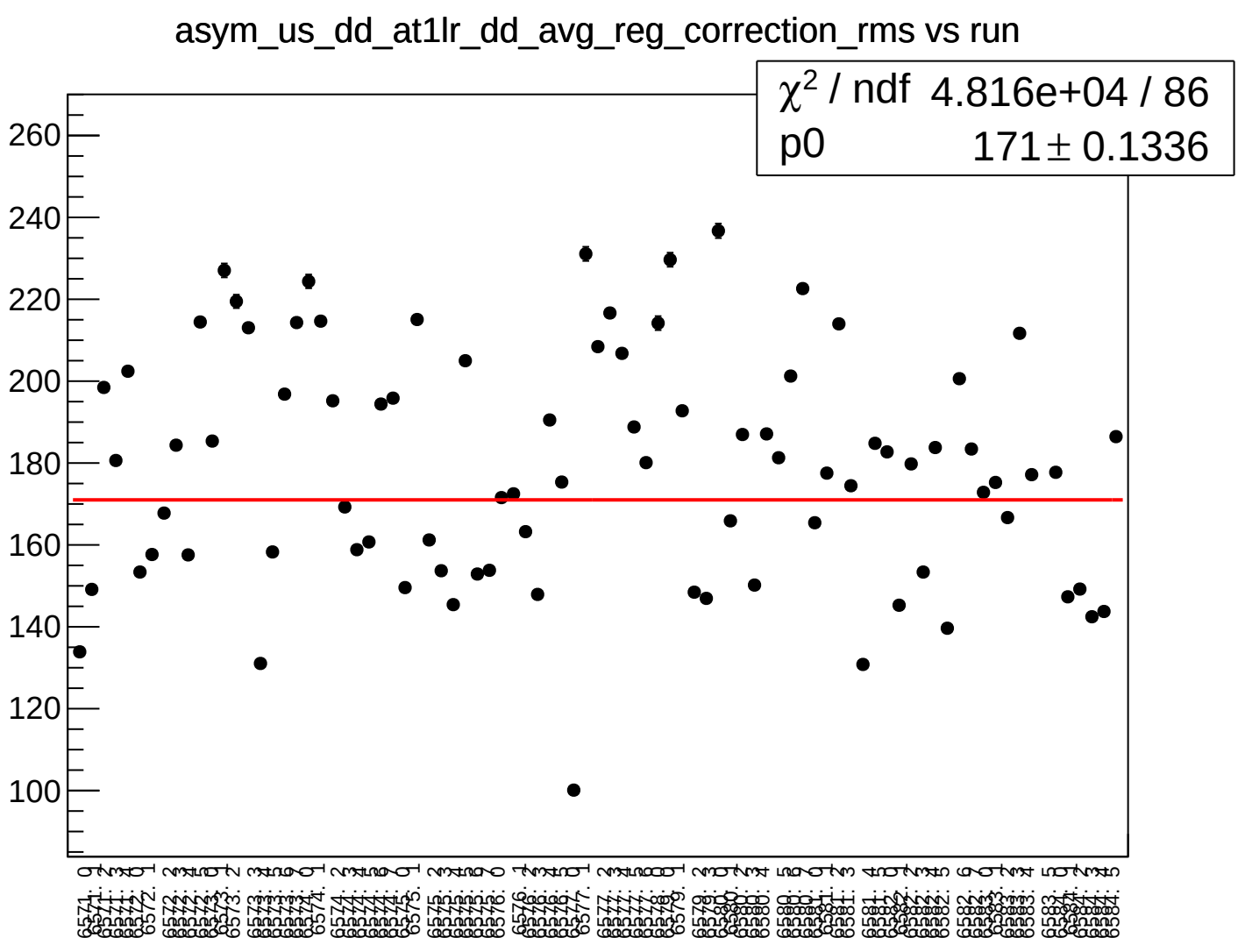

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.255e+05 / 86
p0 2.911e−11 ± 2.701e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

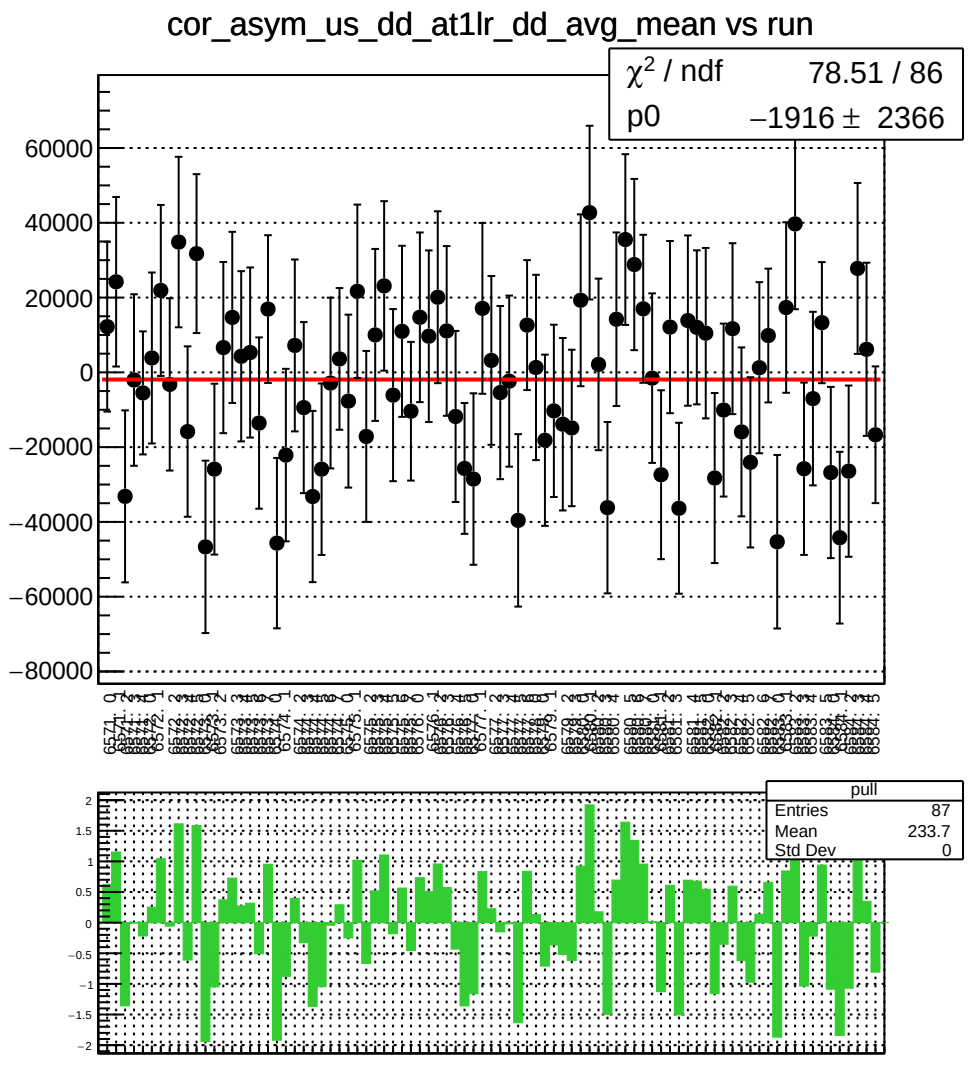

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 78.51 / 86
p0 −1916 ± 2366
pull
Entries 87
Mean 233.7
Std Dev 0

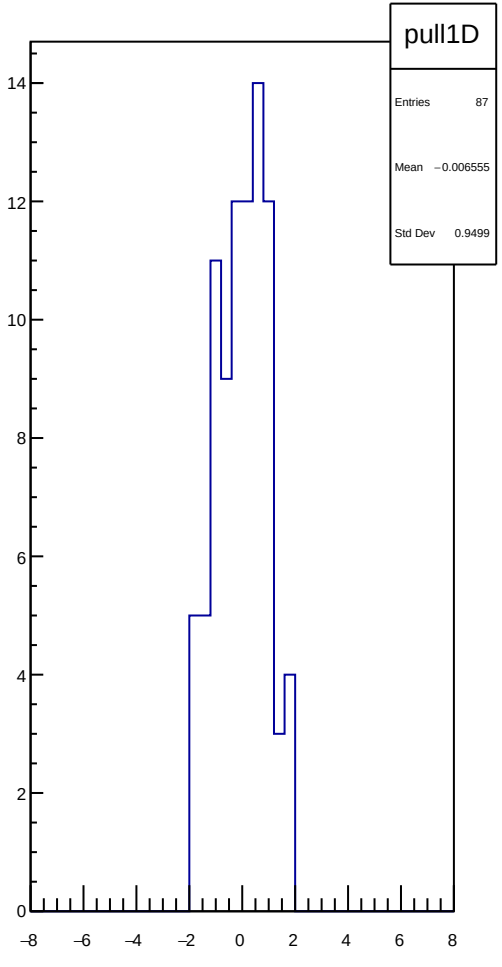

pull1D
Entries 87
Mean −0.006555
Std Dev 0.9499

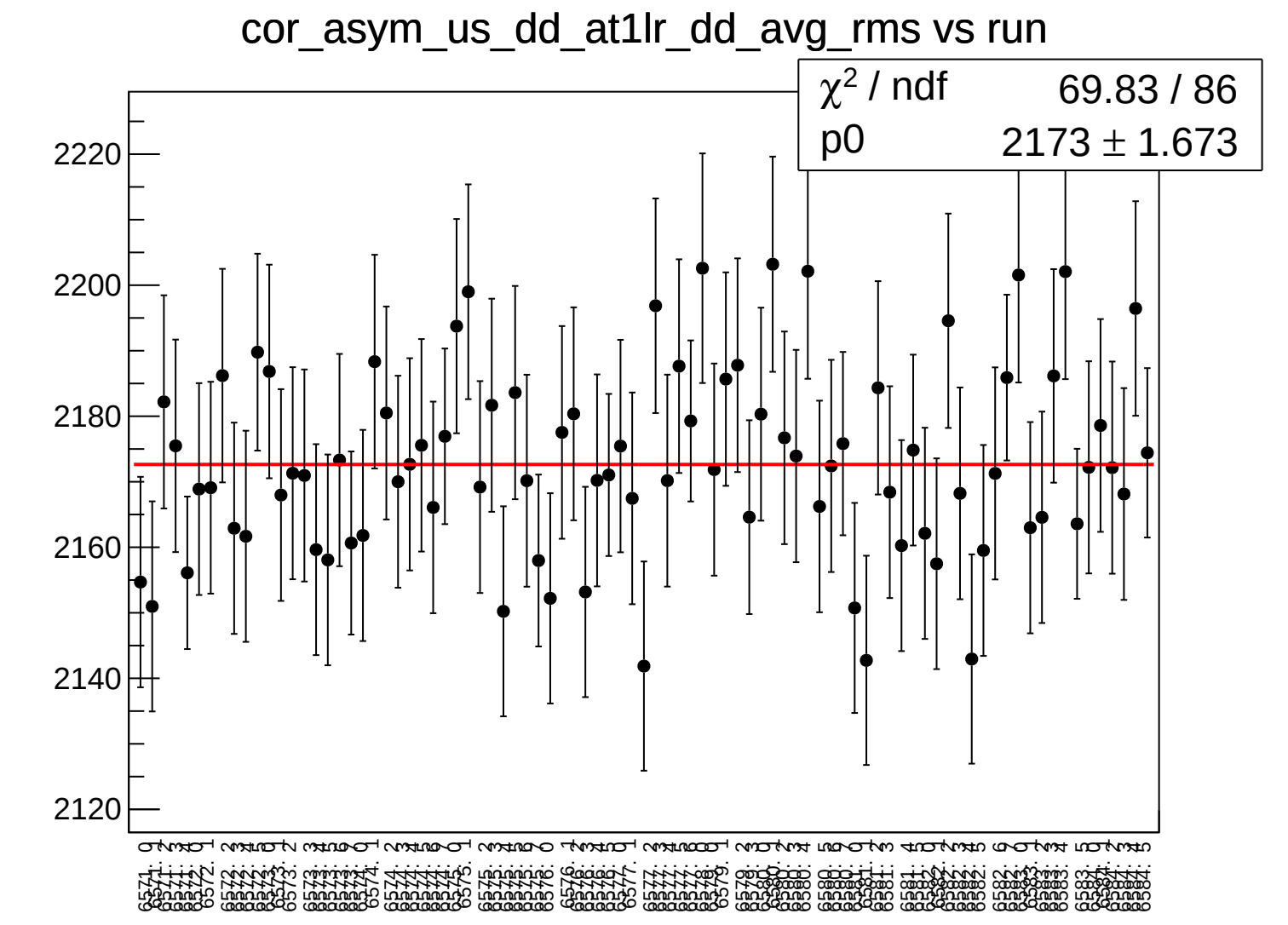

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 69.83 / 86
p0 2173 ± 1.673
2220
2200
2180
2160
2140
2120

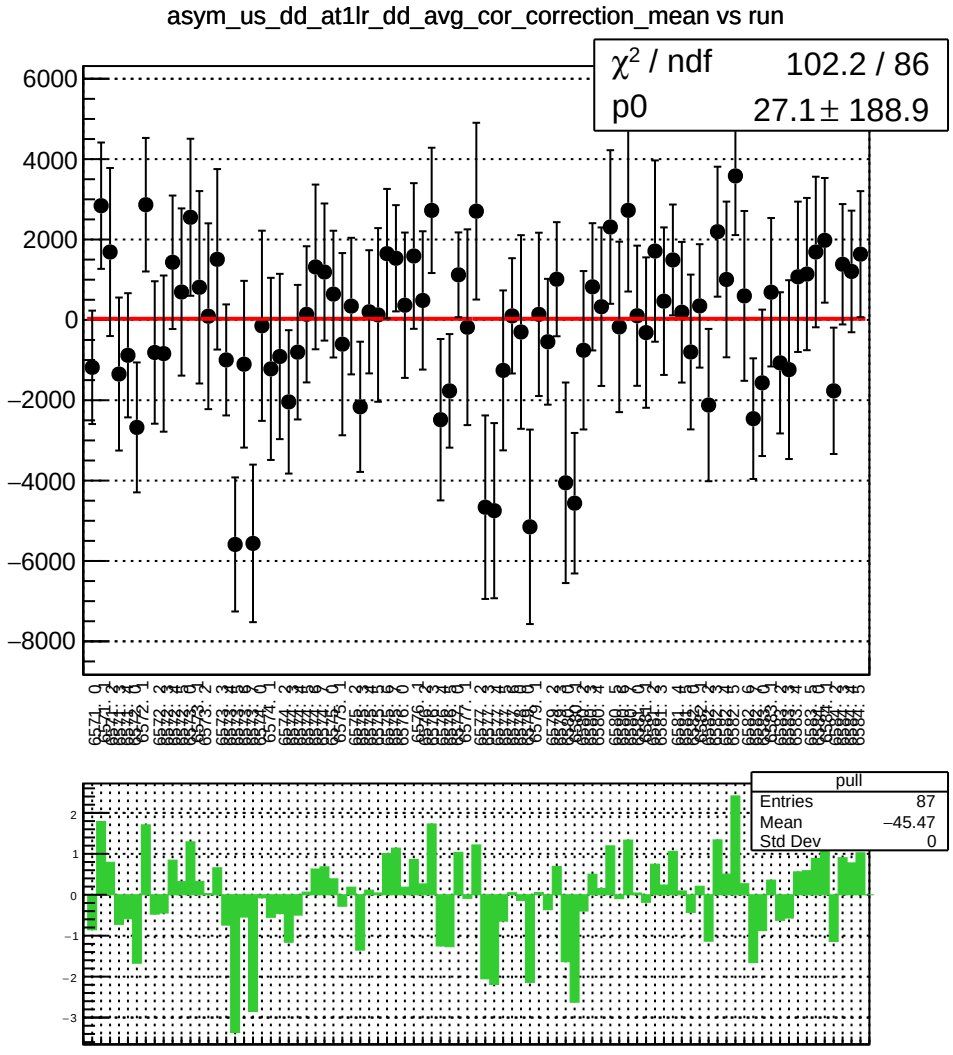

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 102.1 / 86
p0 26.75 ± 188.9
pull
Entries 87
Mean −45.57
Std Dev 0
pull1D
Entries 87
Mean −0.04066
Std Dev 1.083

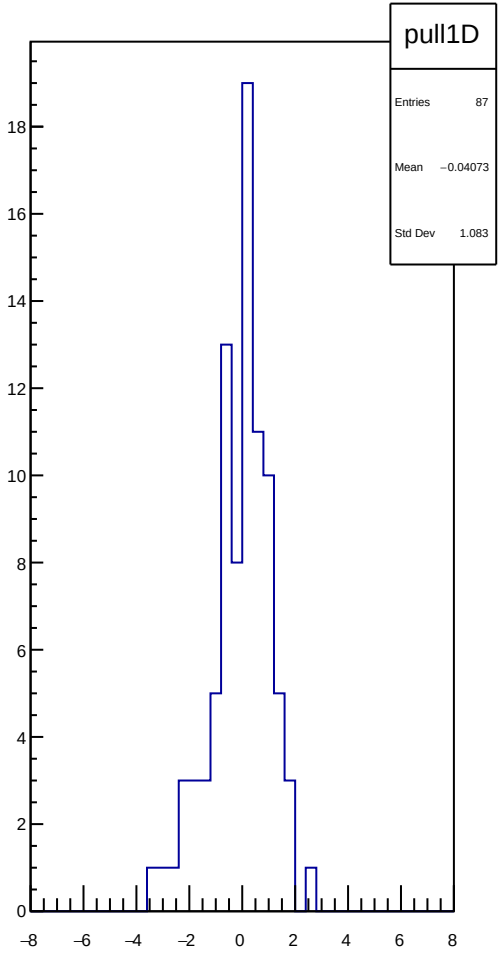

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 4.816e+04 / 86
p0 171 ± 0.1336
260
240
220
200
180
160
140
120
100

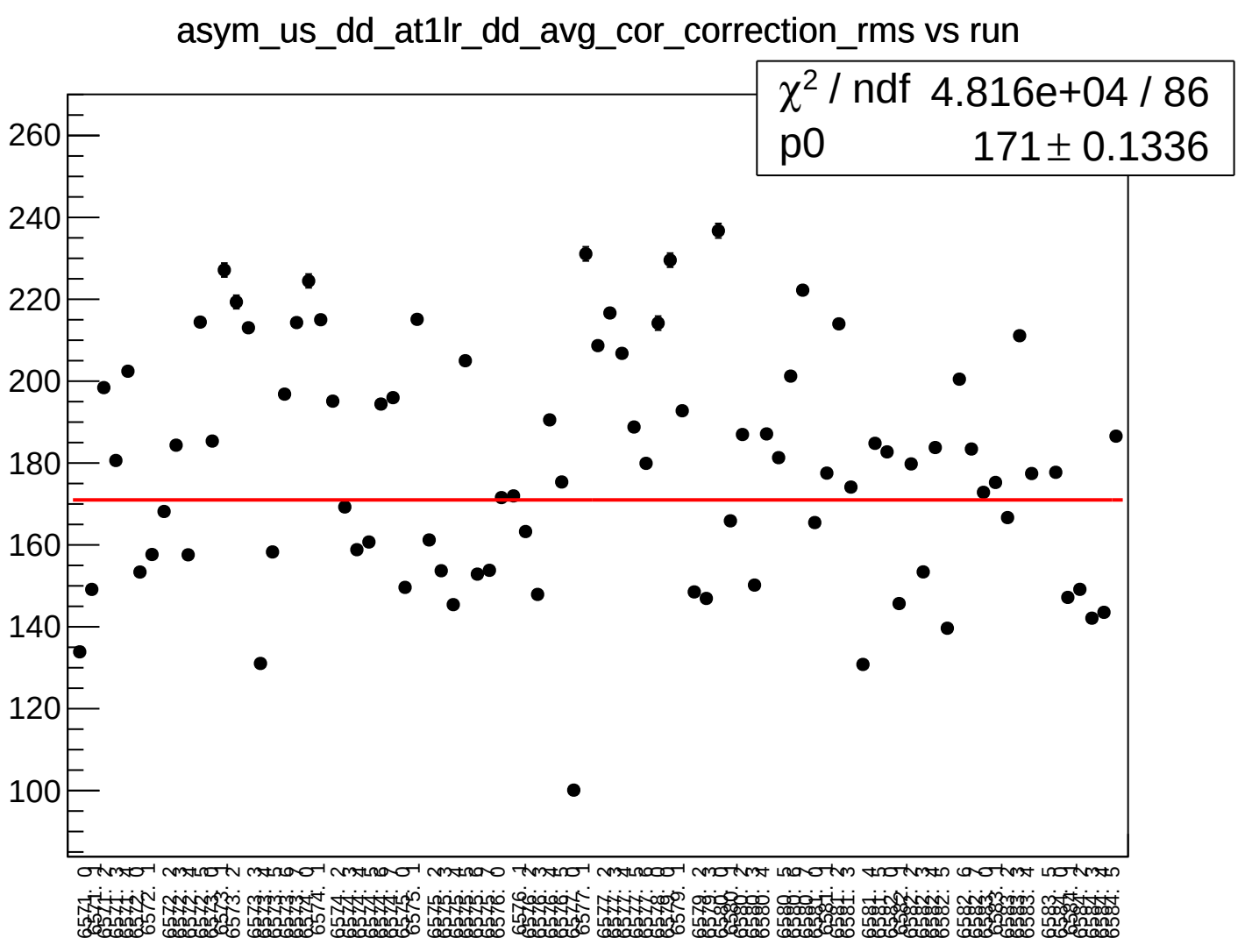

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 78.51 / 86
p0 −1916 ± 2366
pull
Entries 87
Mean 233.7
Std Dev 0

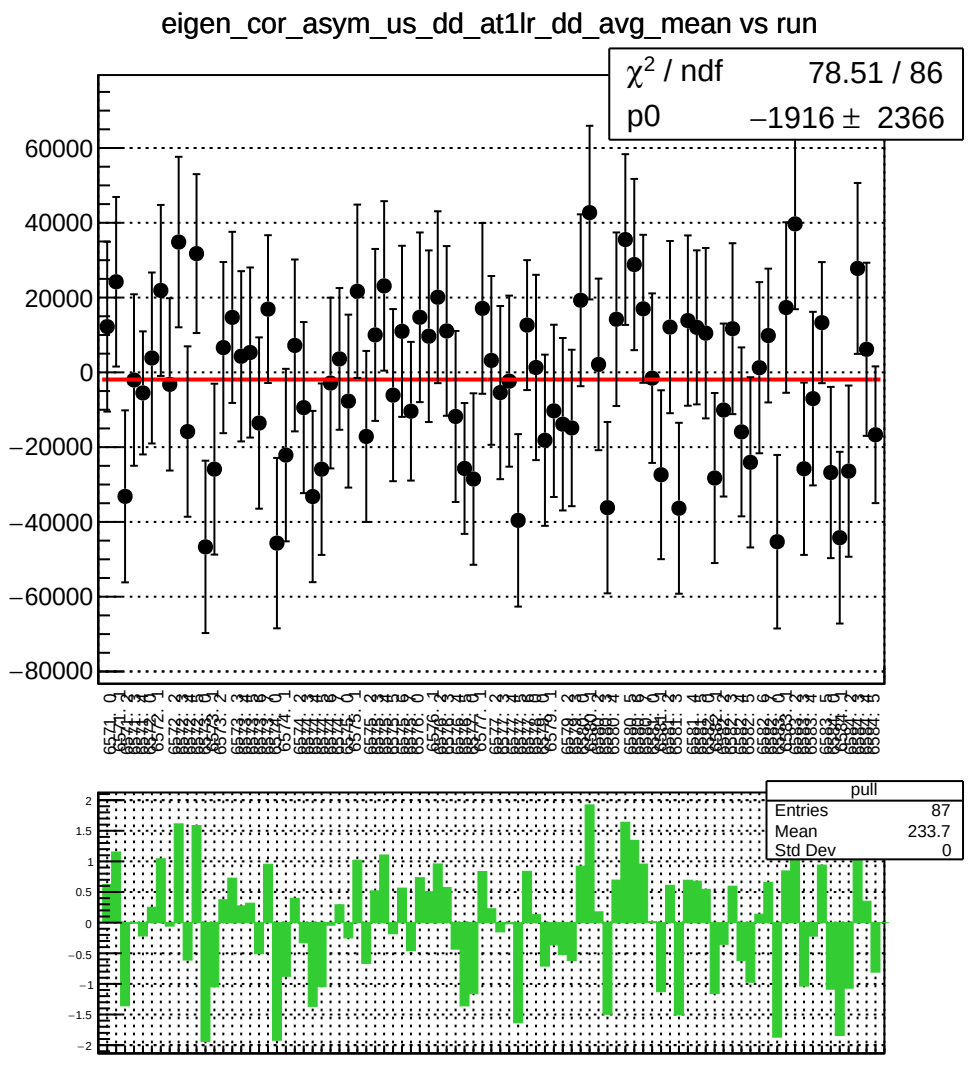

pull1D
Entries 87
Mean −0.006555
Std Dev 0.9499

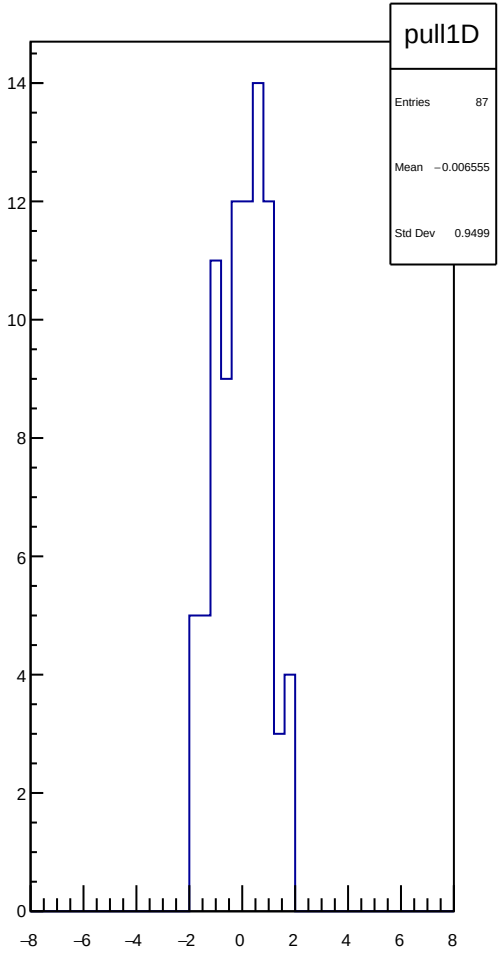

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 69.83 / 86
p0 2173 ± 1.673
2220
2200
2180
2160
2140
2120

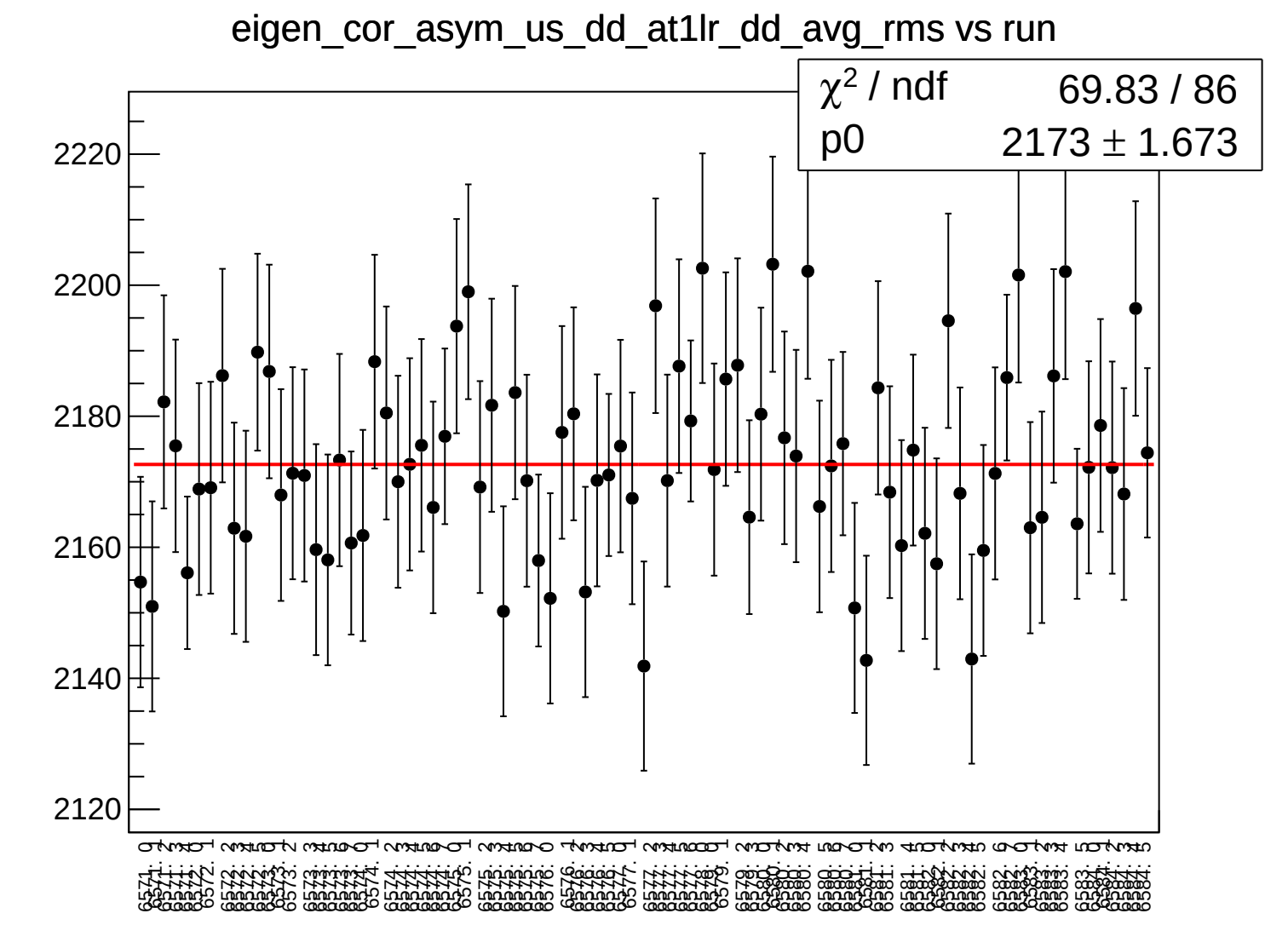

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 102.2 / 86
p0 27.1 ± 188.9
pull
Entries 87
Mean −45.47
Std Dev 0

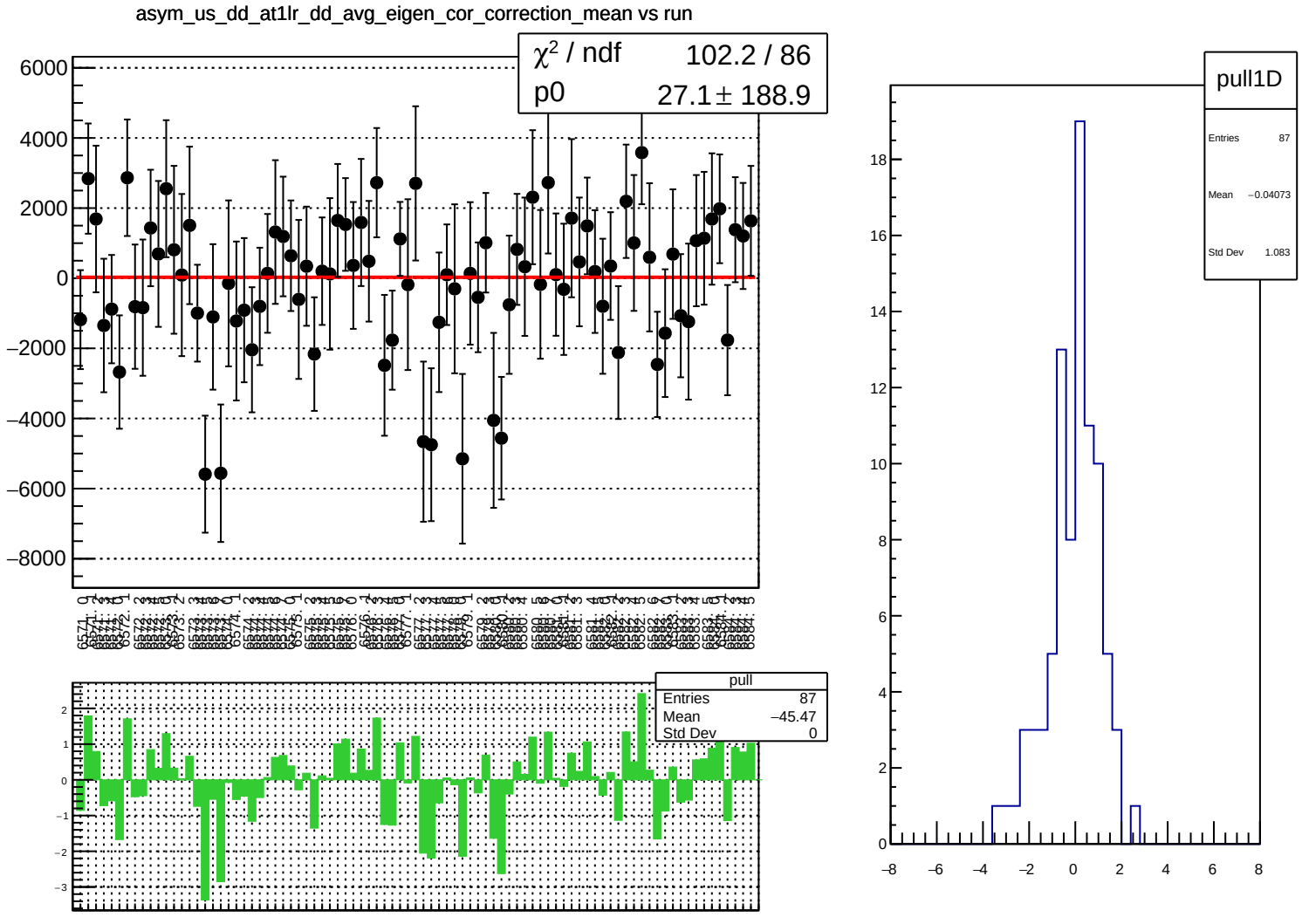

pull1D
Entries 87
Mean −0.04073
Std Dev 1.083

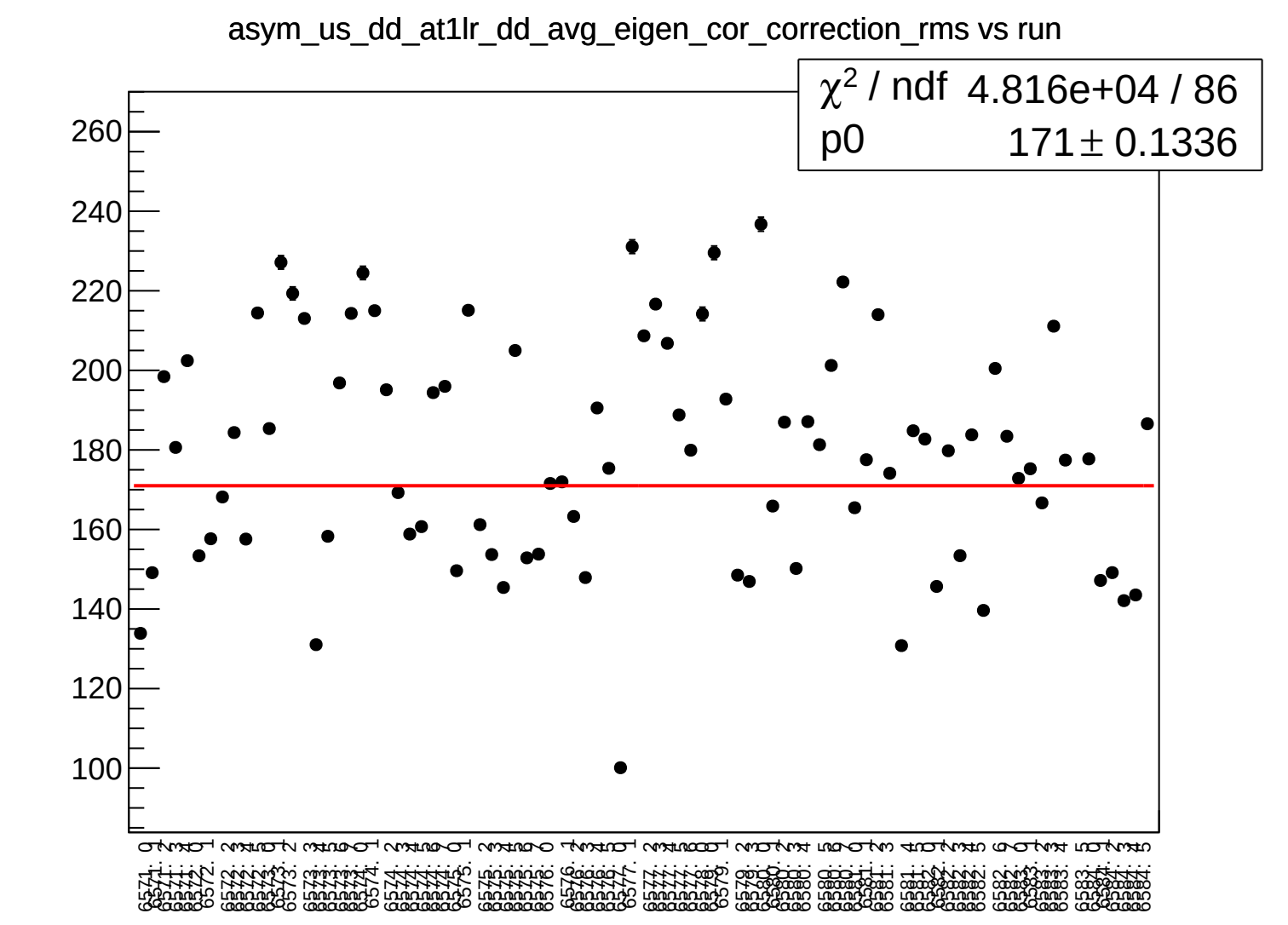

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 4.816e+04 / 86
p0 171 ± 0.1336
260
240
220
200
180
160
140
120
100

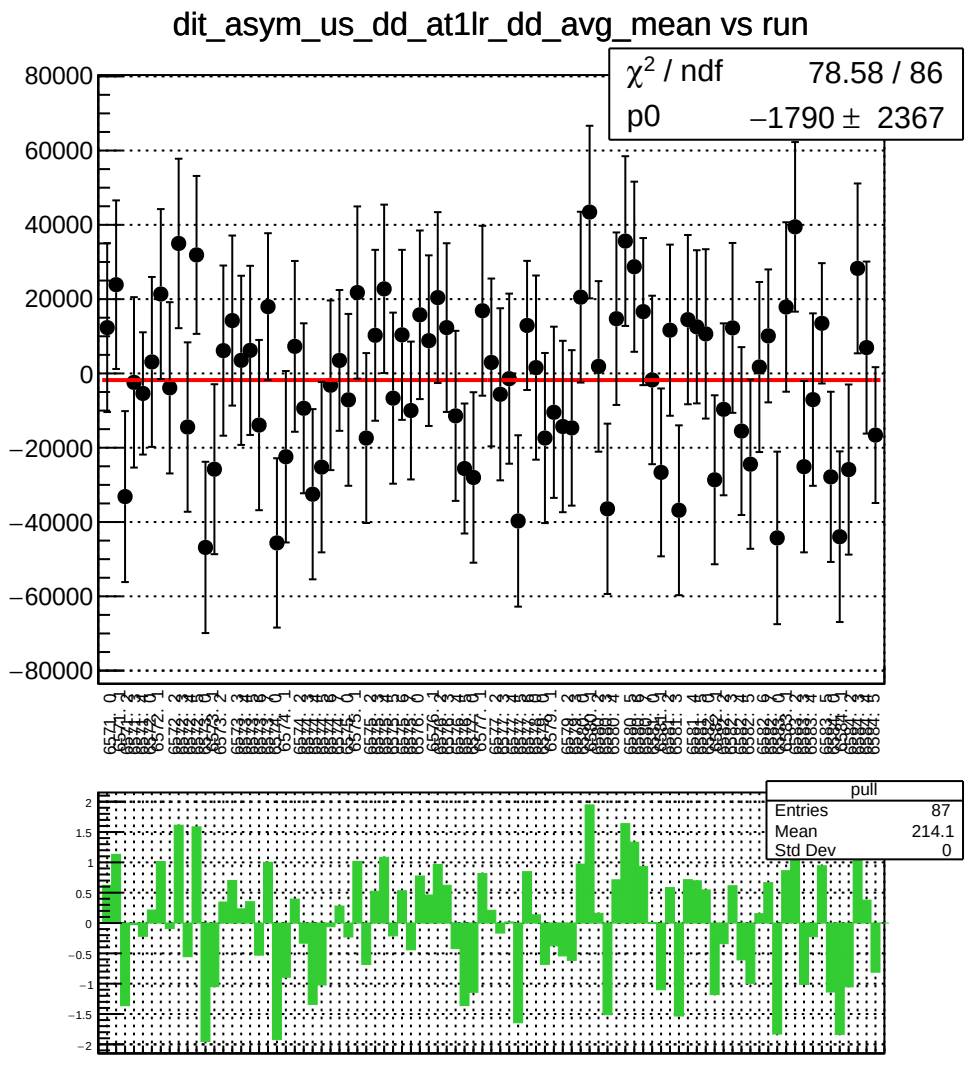

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 78.51 / 86
p0 −1916 ± 2366
pull
Entries 87
Mean 233.7
Std Dev 0

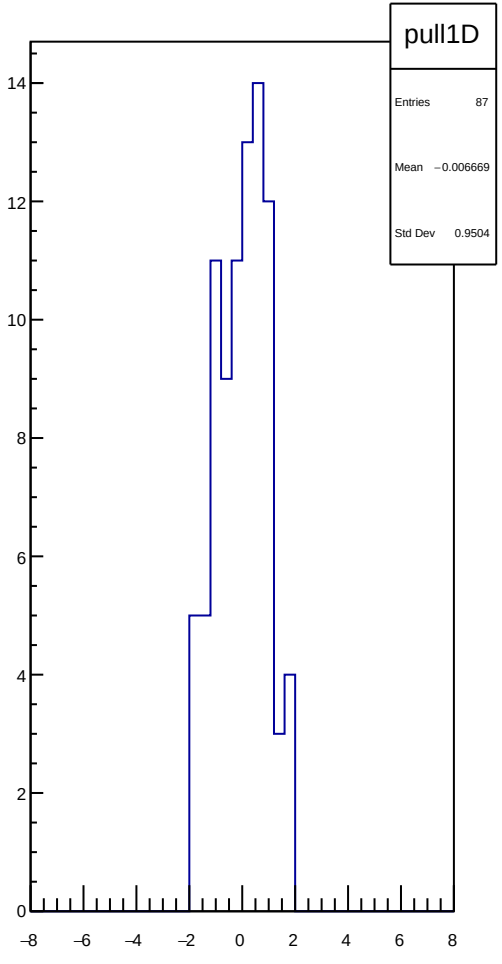

pull1D
Entries 87
Mean −0.006555
Std Dev 0.9499

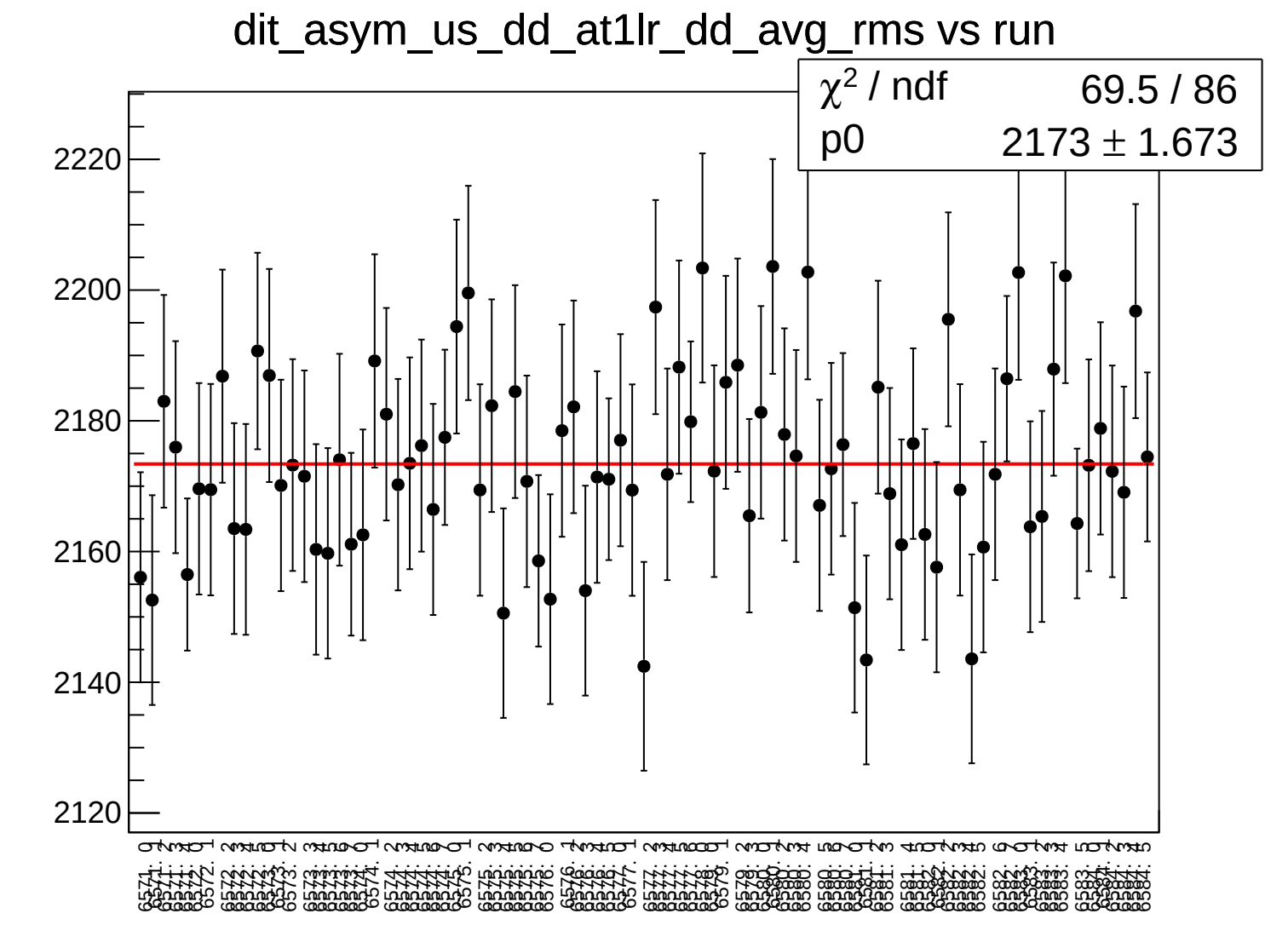

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 69.83 / 86
p0 2173 ± 1.673
2220
2200
2180
2160
2140
2120

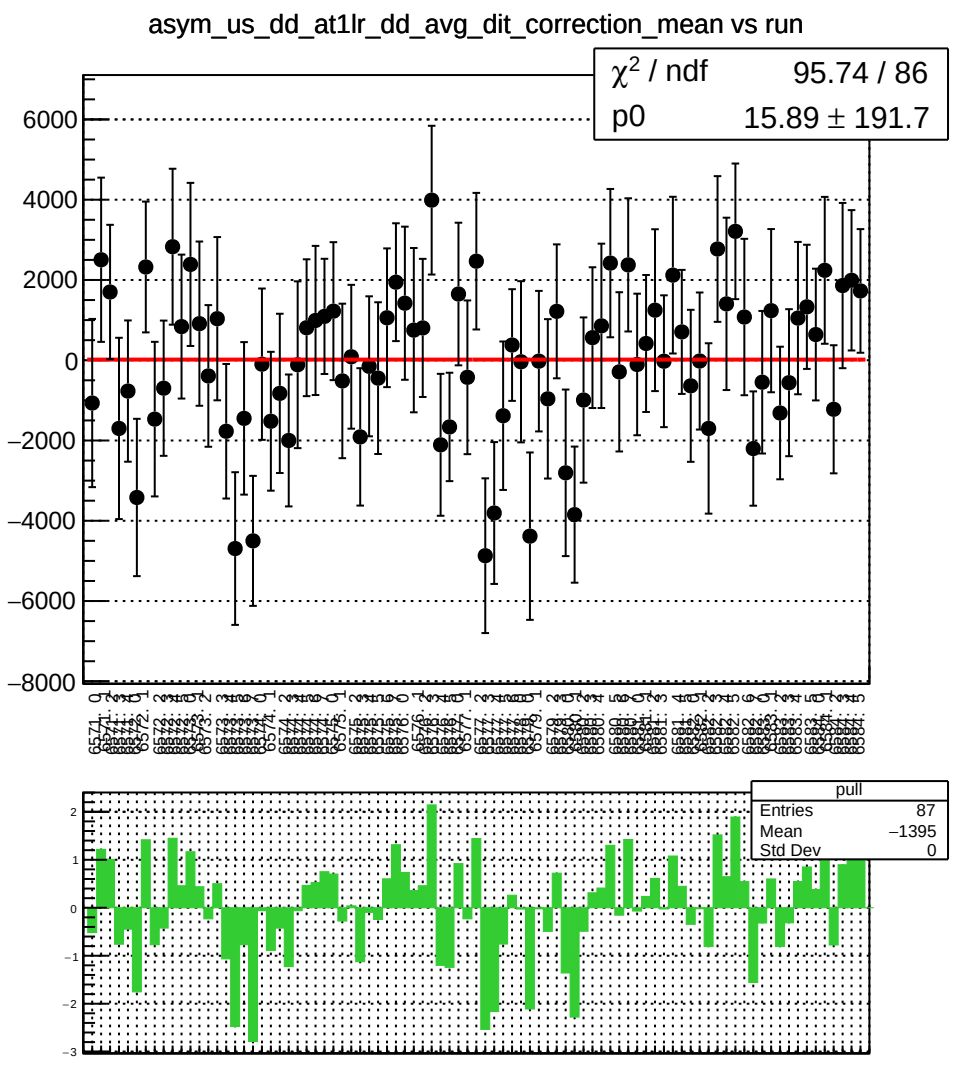

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.2 / 86
p0 27.1 ± 188.9
pull
Entries 87
Mean −45.47
Std Dev 0
pull1D
Entries 87
Mean −0.04073
Std Dev 1.083

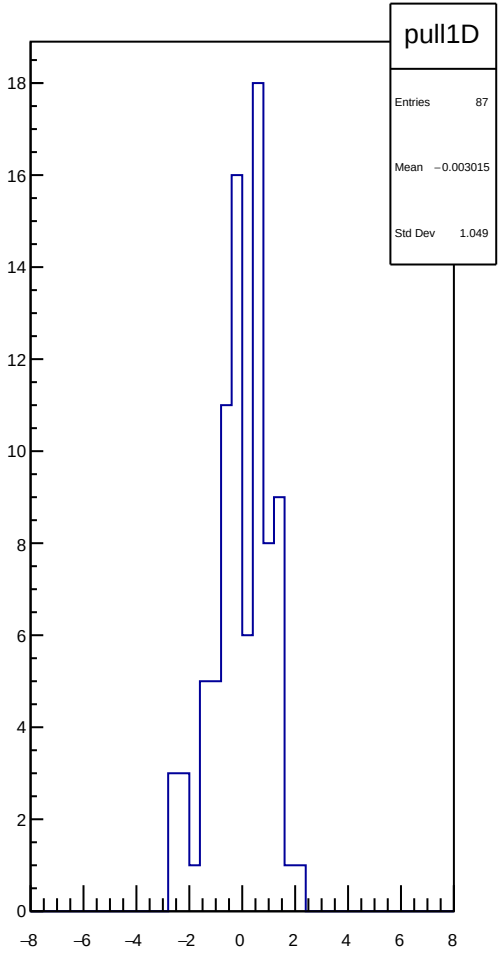

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.816e+04 / 86
p0 171 ± 0.1336
260
240
220
200
180
160
140
120
100

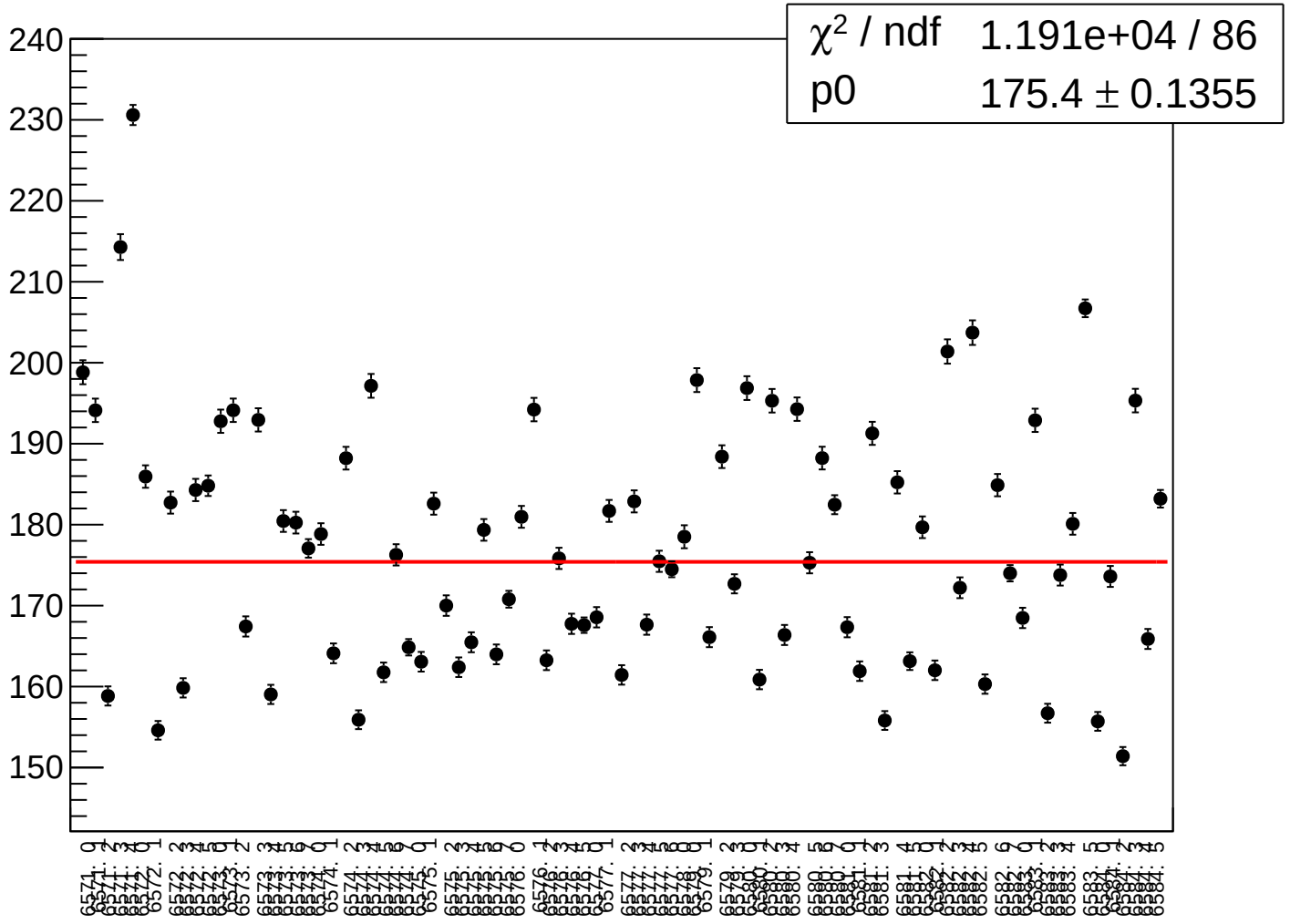

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 78.58 / 86
p0 −1790 ± 2367
pull
Entries 87
Mean 214.1
Std Dev 0

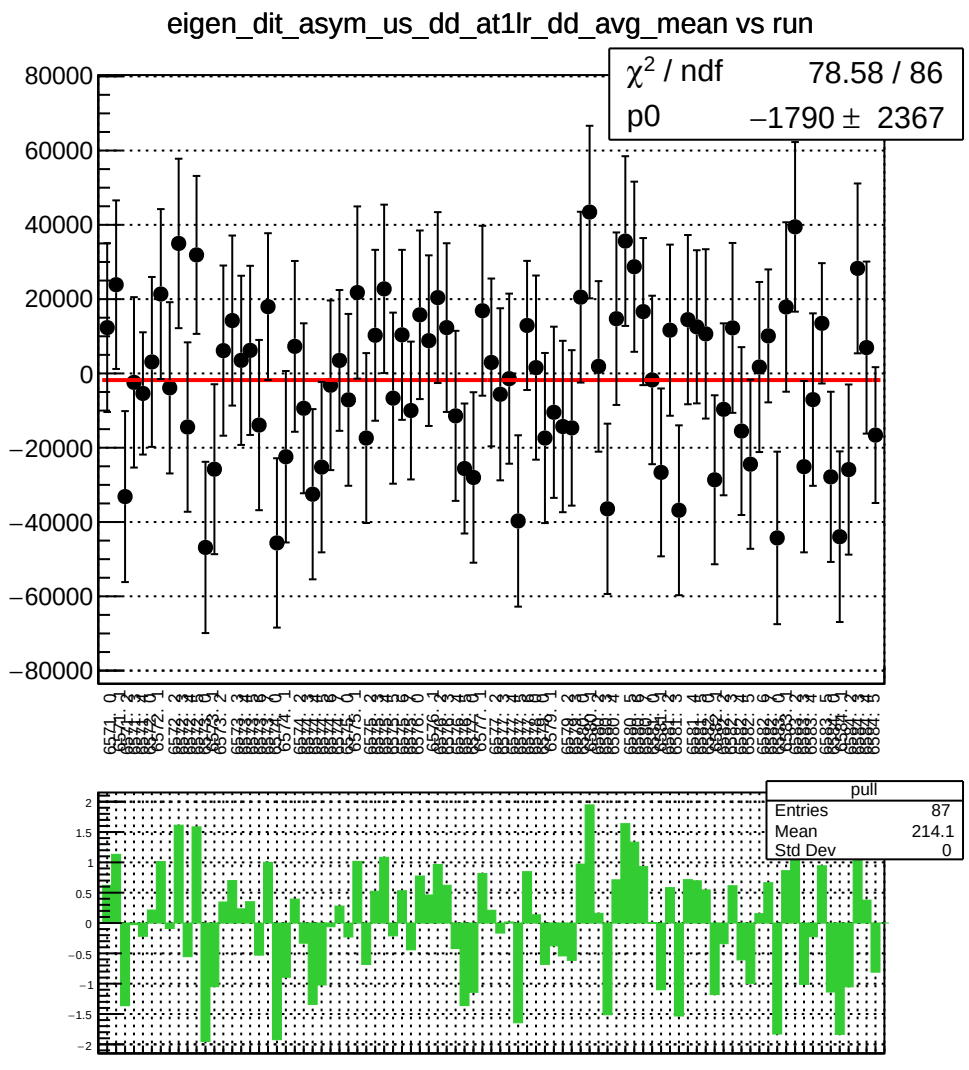

pull1D
Entries 87
Mean −0.006669
Std Dev 0.9504

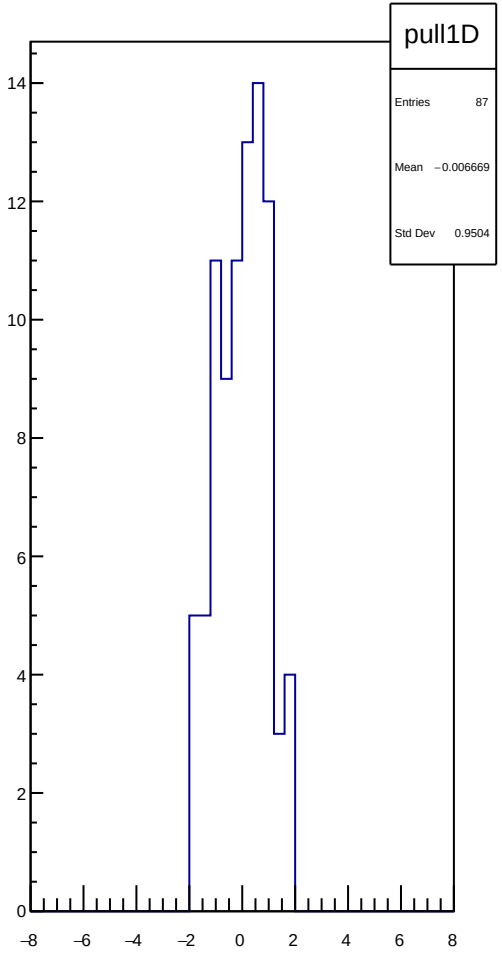

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 69.5 / 86
p0 2173 ± 1.673
2220
2200
2180
2160
2140
2120

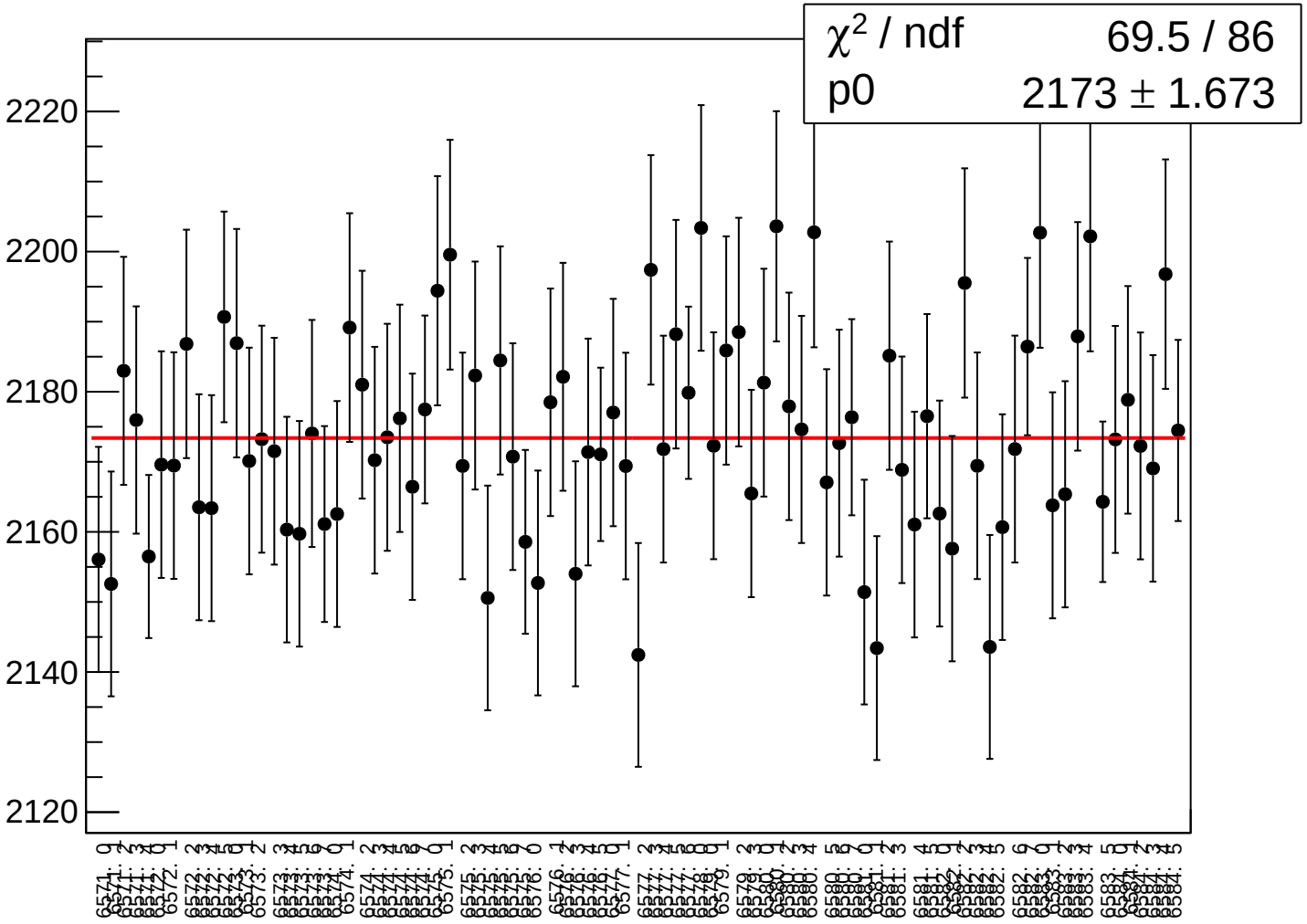

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 95.74 / 86
p0 15.89 ± 191.7
pull
Entries 87
Mean −1395
Std Dev 0

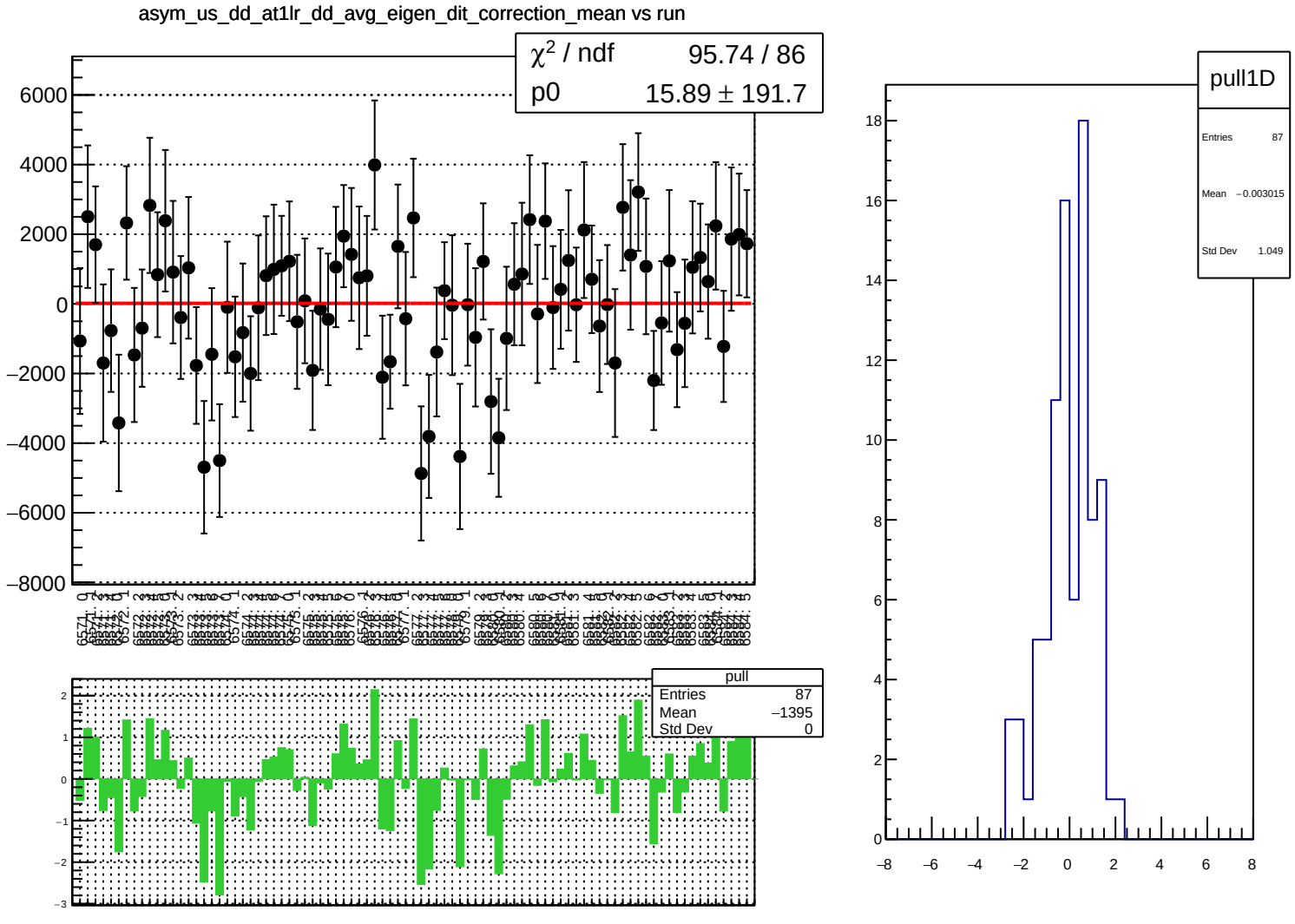

pull1D
Entries 87
Mean −0.003015
Std Dev 1.049

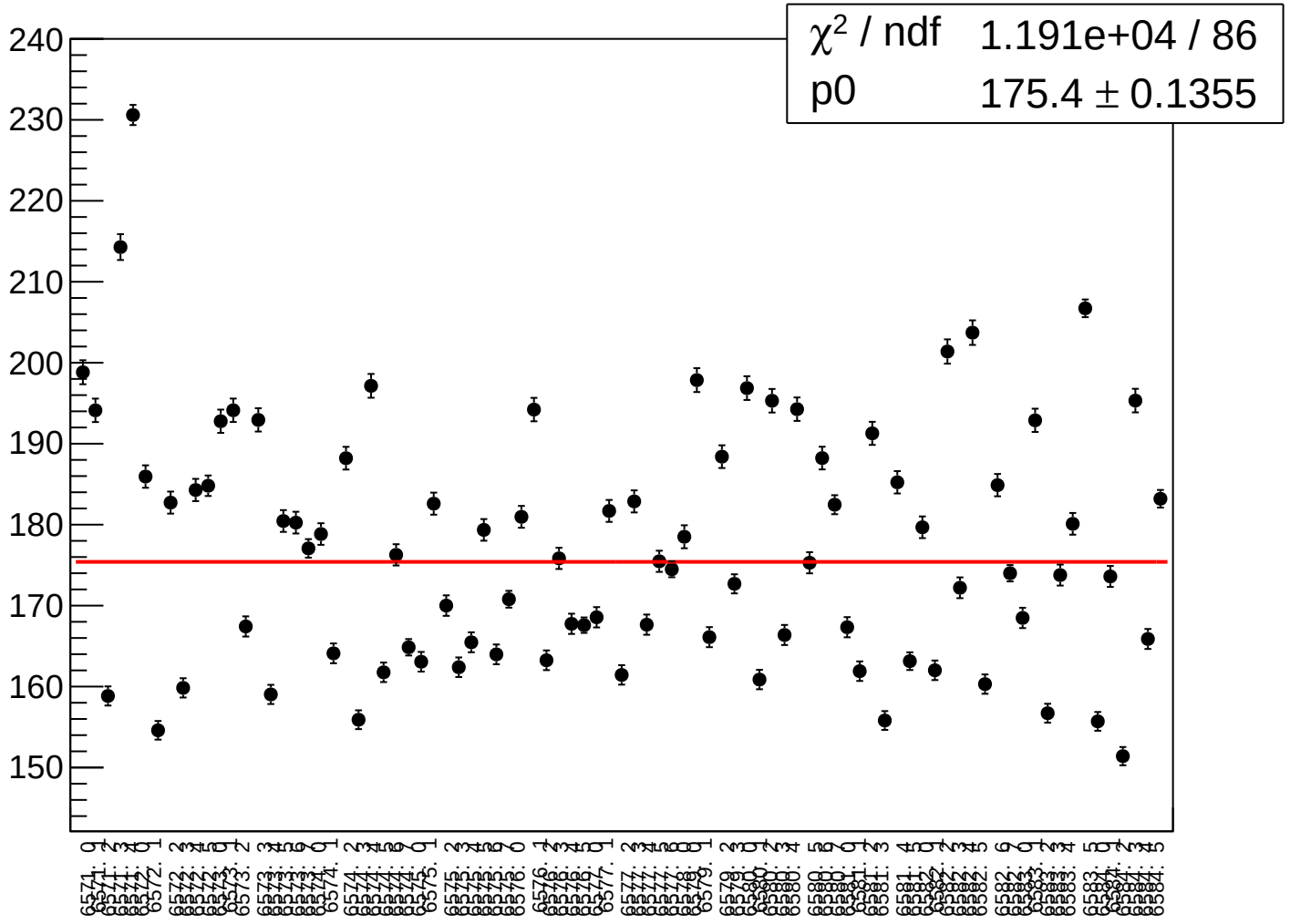

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.191e+04 / 86
p0 175.4 ± 0.1355
240
230
220
210
200
190
180
170
160
150

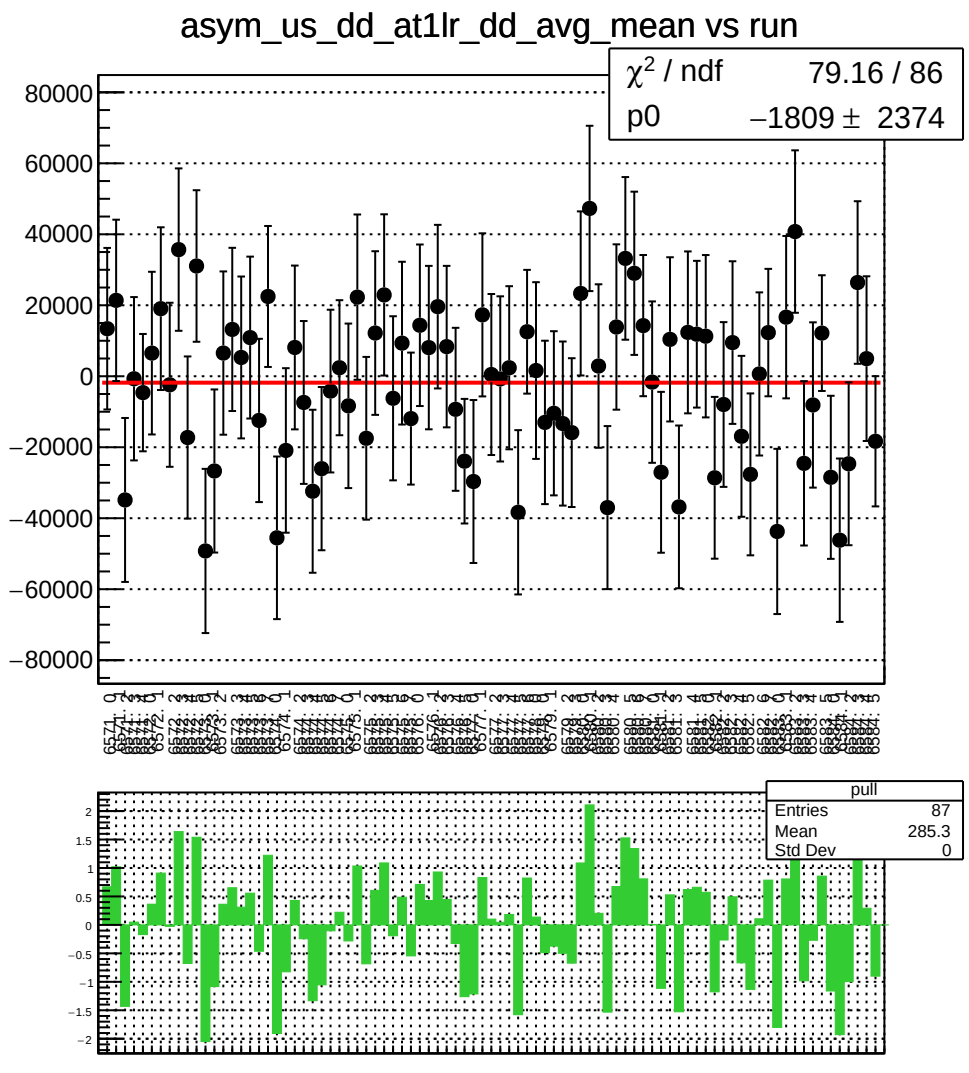

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 78.58 / 86
p0 −1790 ± 2367
pull
Entries 87
Mean 214.1
Std Dev 0

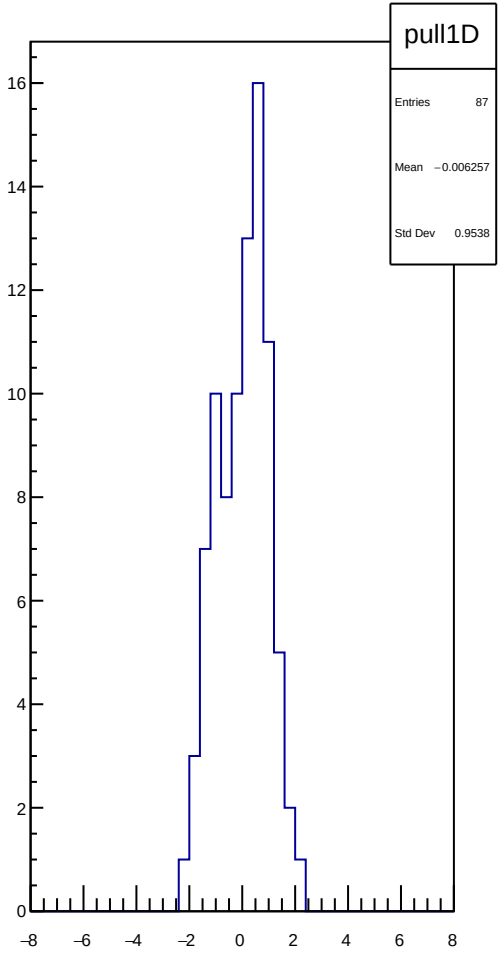

pull1D
Entries 87
Mean −0.006669
Std Dev 0.9504

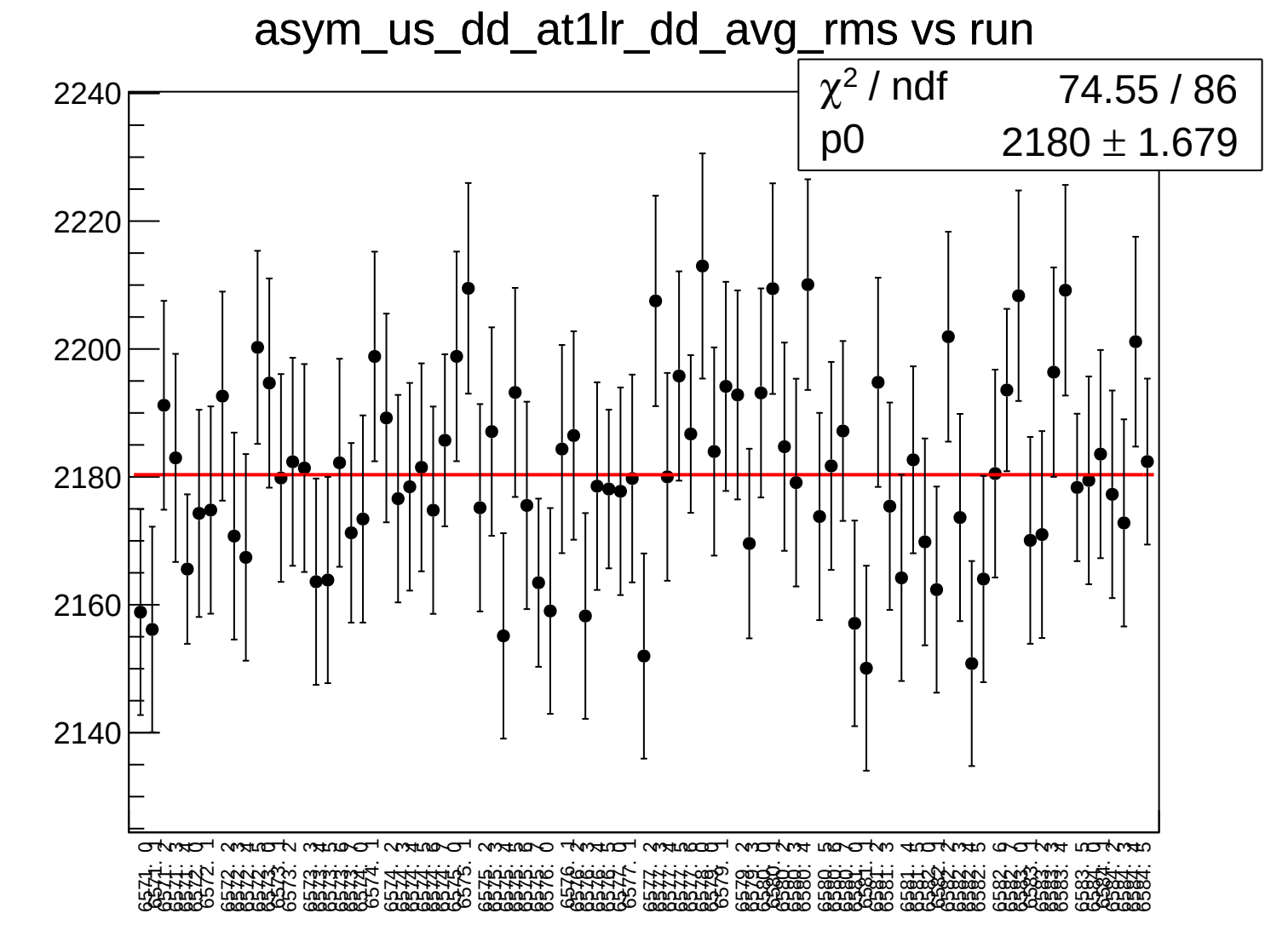

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 69.5 / 86
p0 2173 ± 1.673
2220
2200
2180
2160
2140
2120

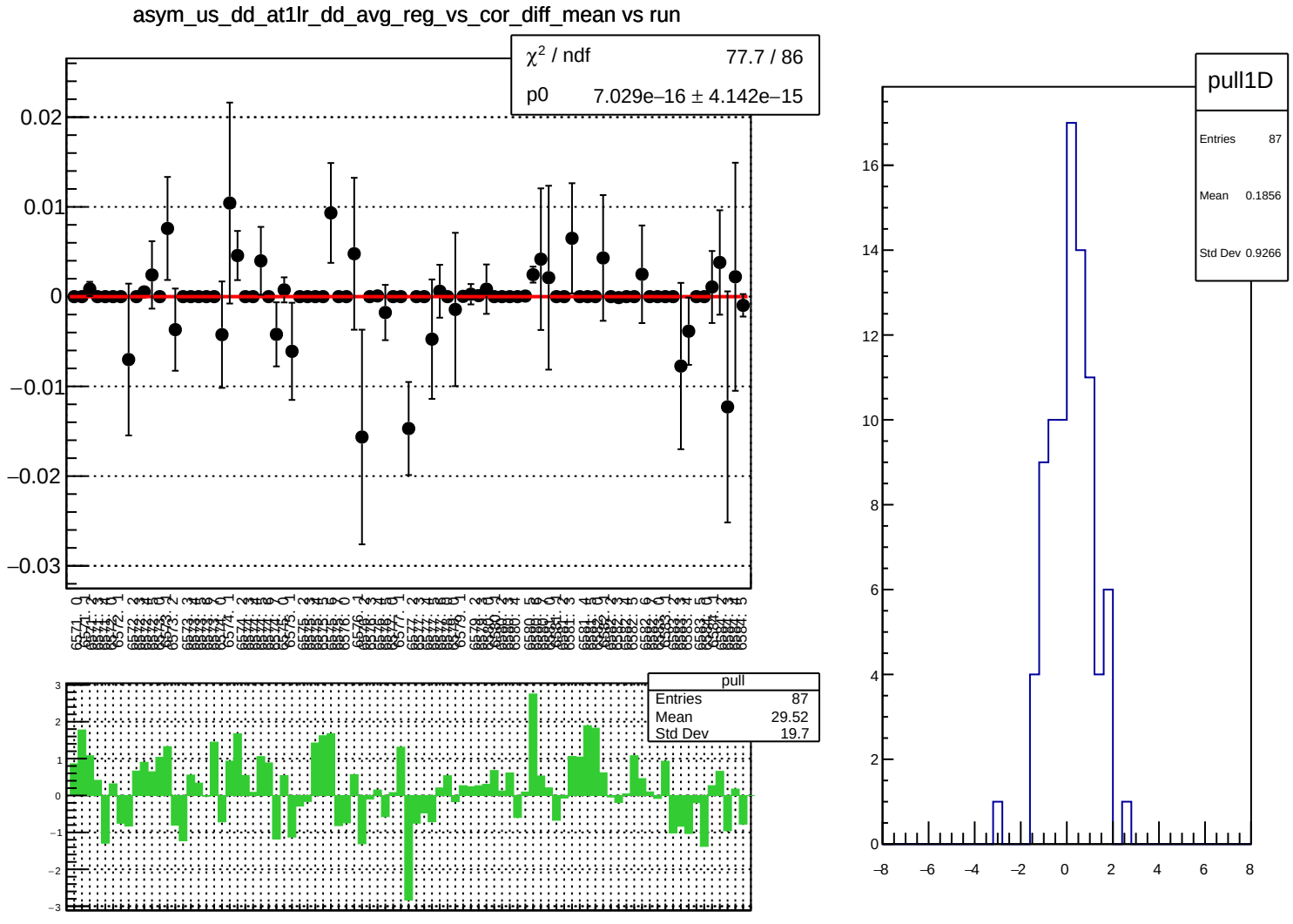

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.74 / 86
p0 15.89 ± 191.7
pull
Entries 87
Mean −1395
Std Dev 0
pull1D
Entries 87
Mean −0.003015
Std Dev 1.049

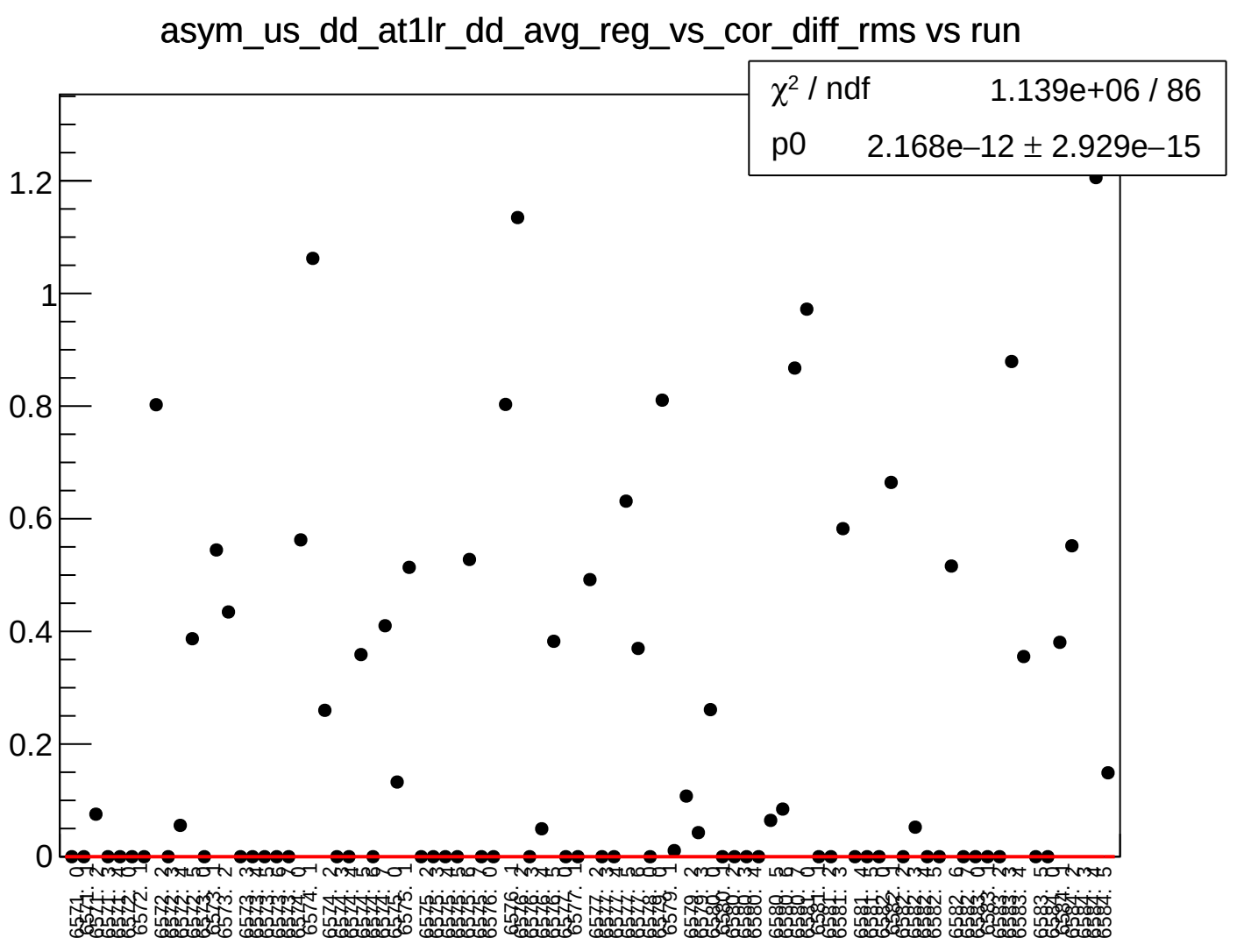

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.191e+04 / 86
p0 175.4 ± 0.1355
240
230
220
210
200
190
180
170
160
150

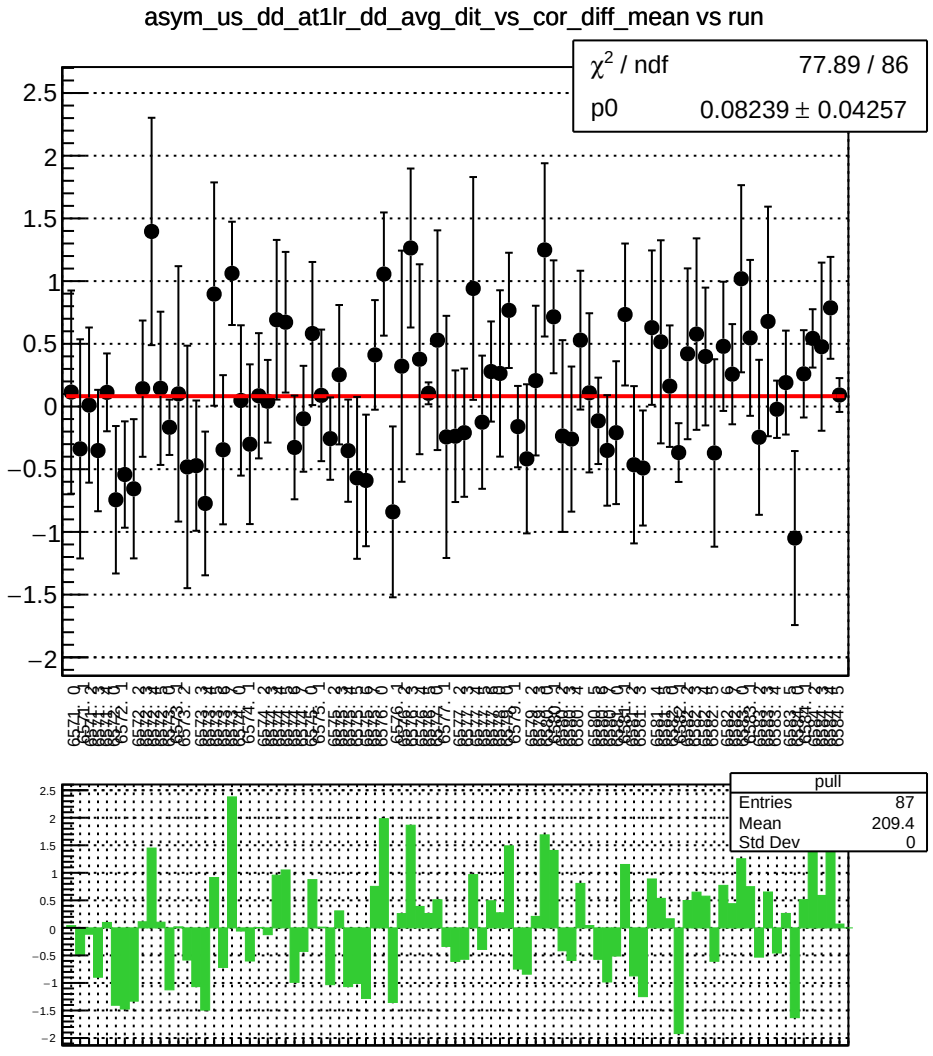

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 79.16 / 86
p0 −1809 ± 2374
pull
Entries 87
Mean 285.3
Std Dev 0

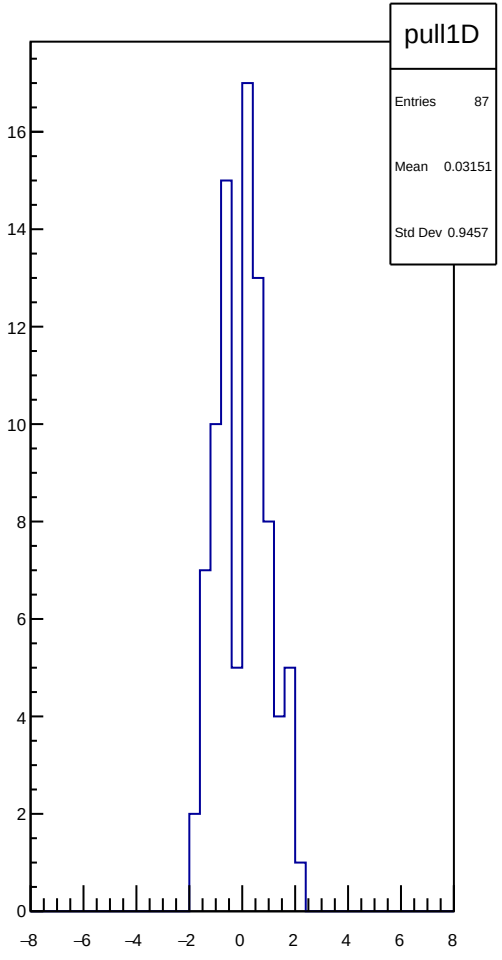

pull1D
Entries 87
Mean −0.006257
Std Dev 0.9538

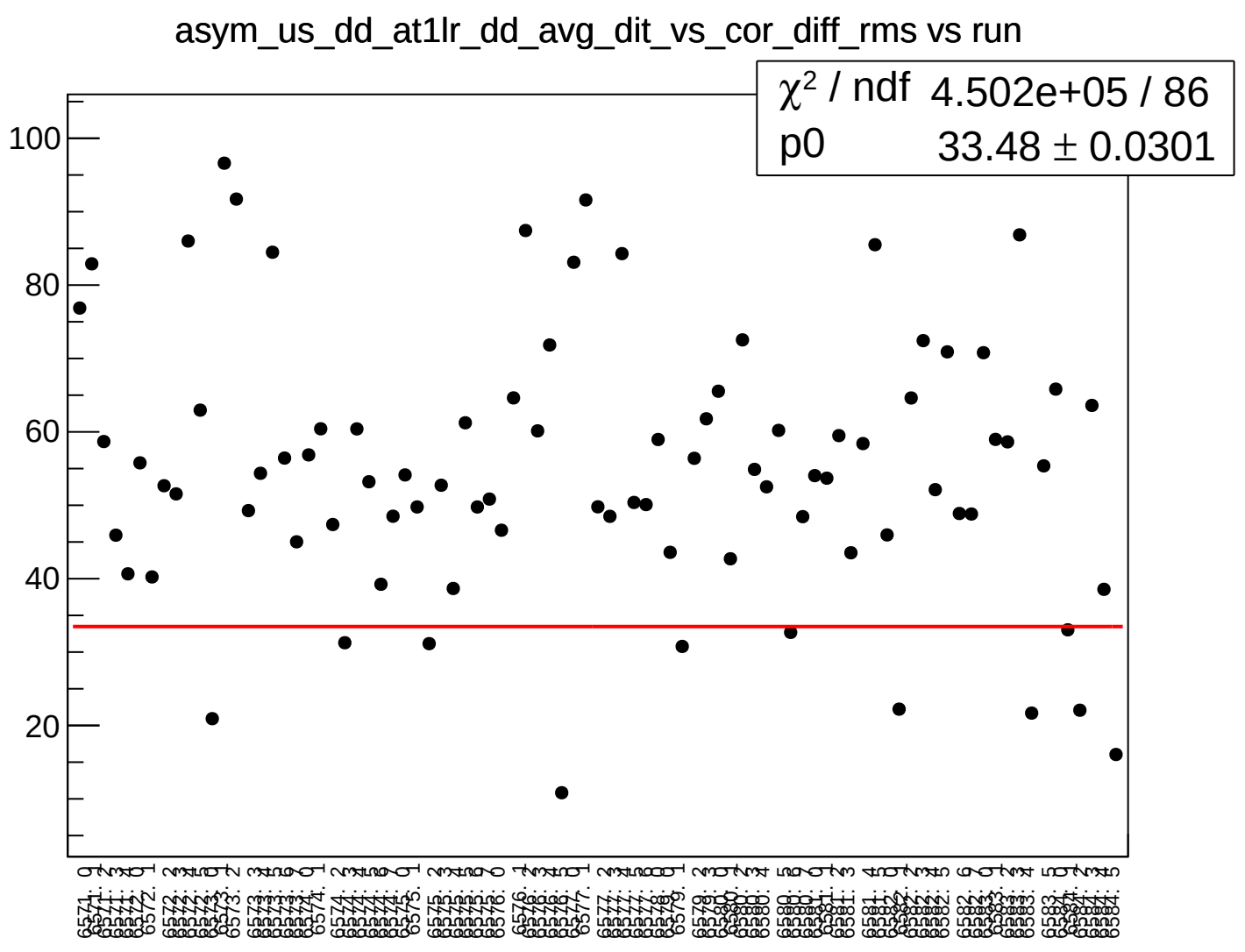

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 74.55 / 86
p0 2180 ± 1.679
2240
2220
2200
2180
2160
2140

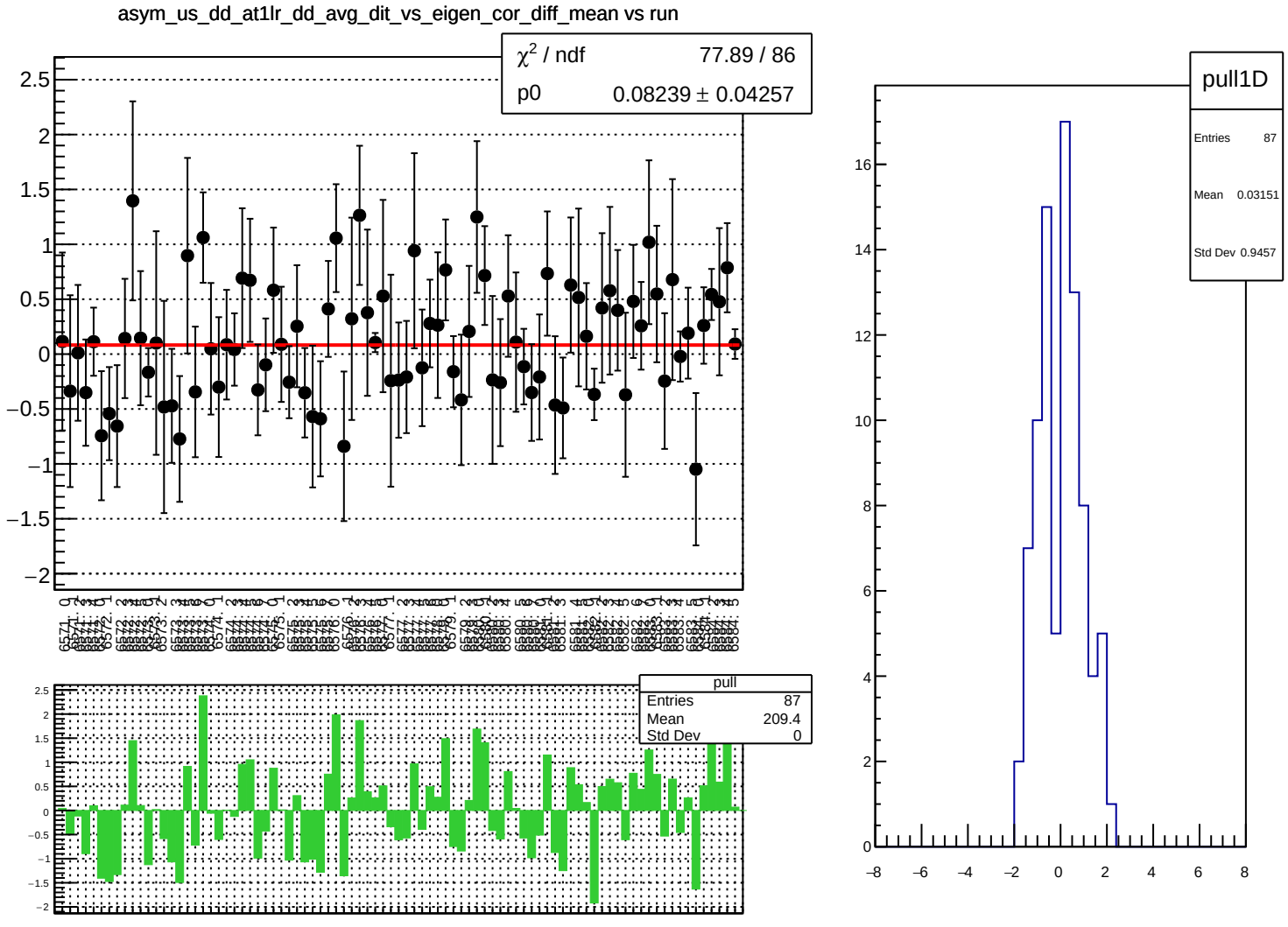

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.7 / 86
p0 7.029e−16 ± 4.142e−15
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 29.52
Std Dev 19.7
pull1D
Entries 87
Mean 0.1856
Std Dev 0.9266
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

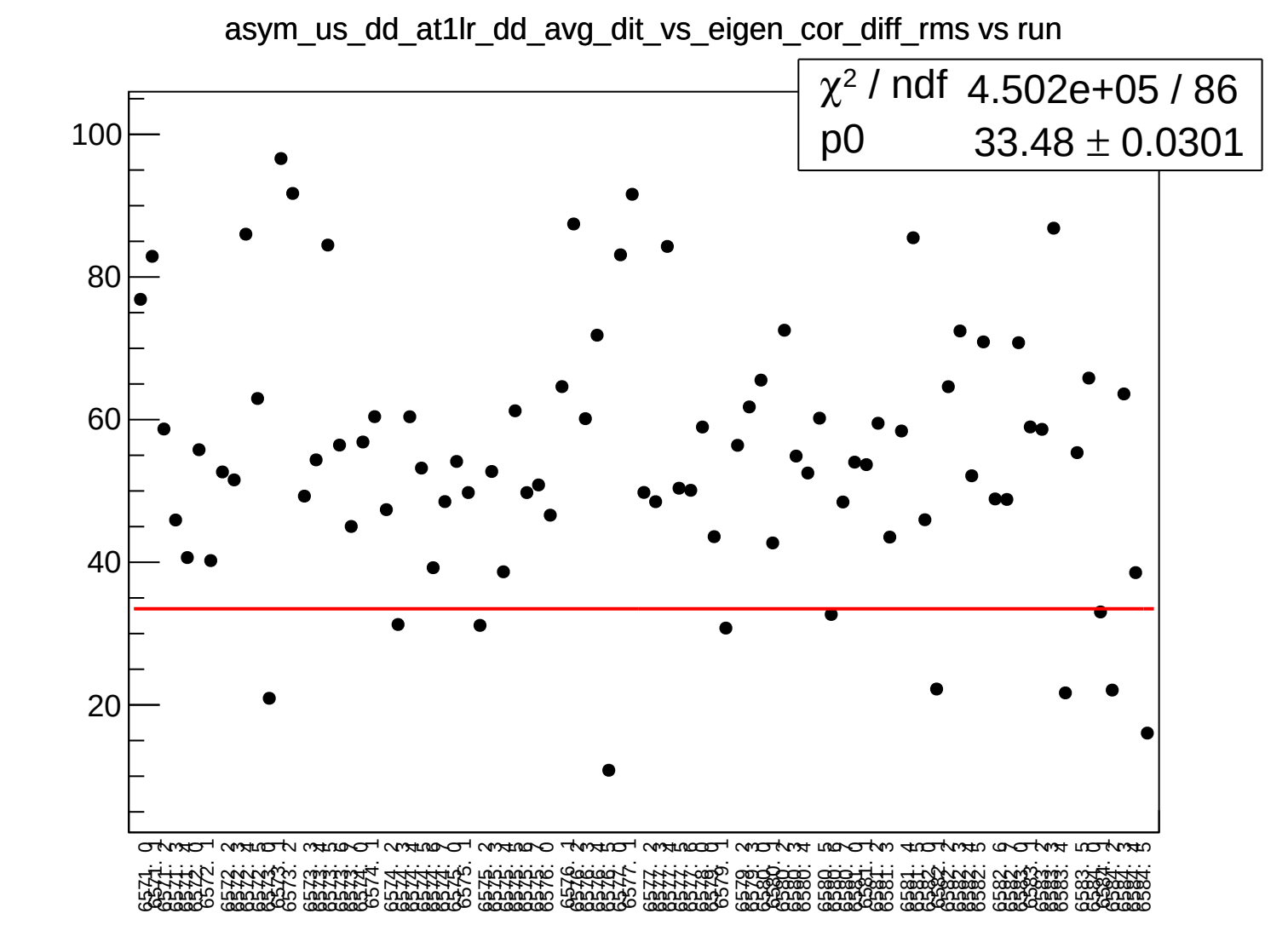

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 86
p0 2.168e−12 ± 2.929e−15
1.2
1
0.8
0.6
0.4
0.2
0

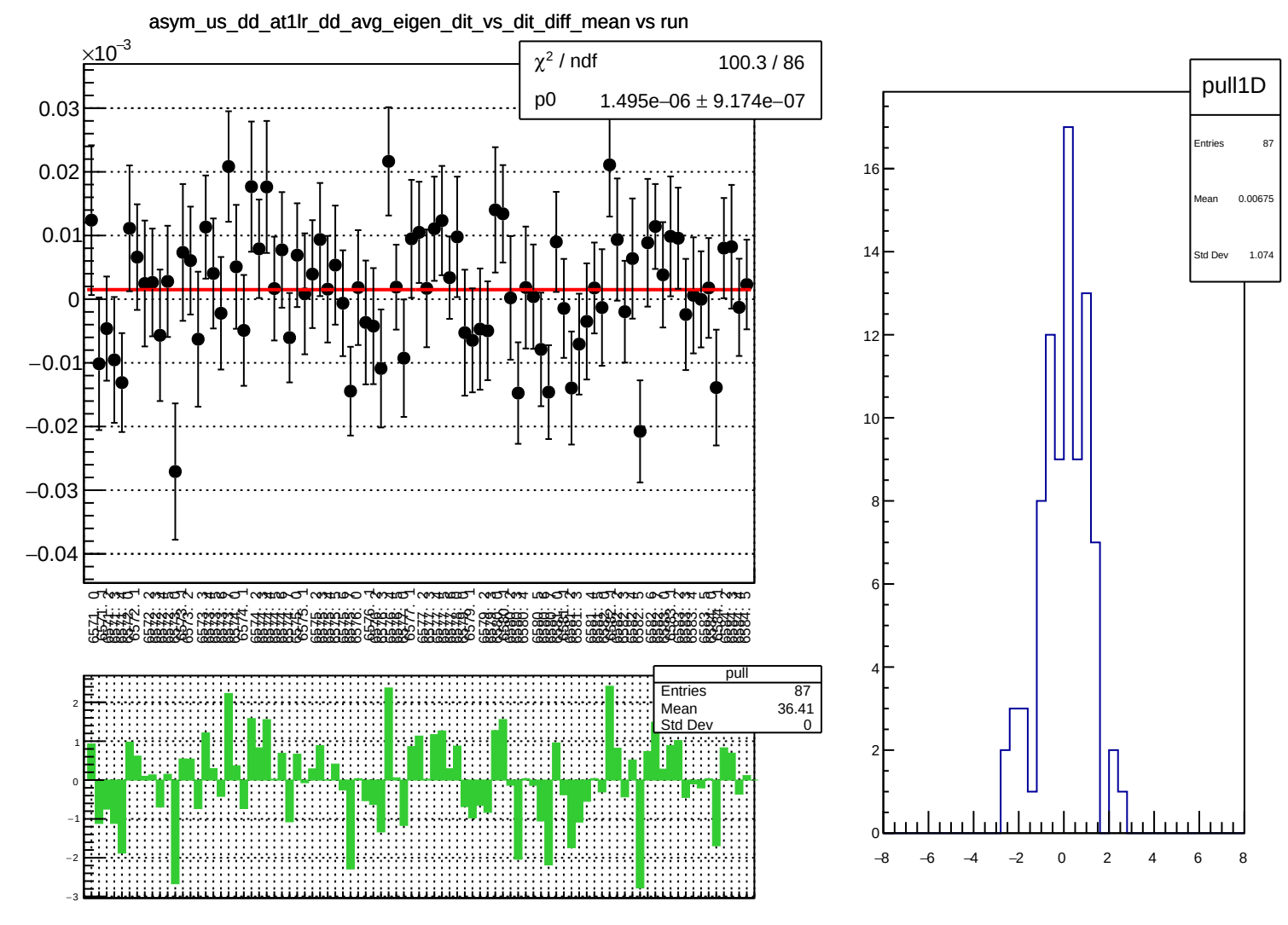

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.89 / 86
p0 0.08239 ± 0.04257
pull
Entries 87
Mean 209.4
Std Dev 0

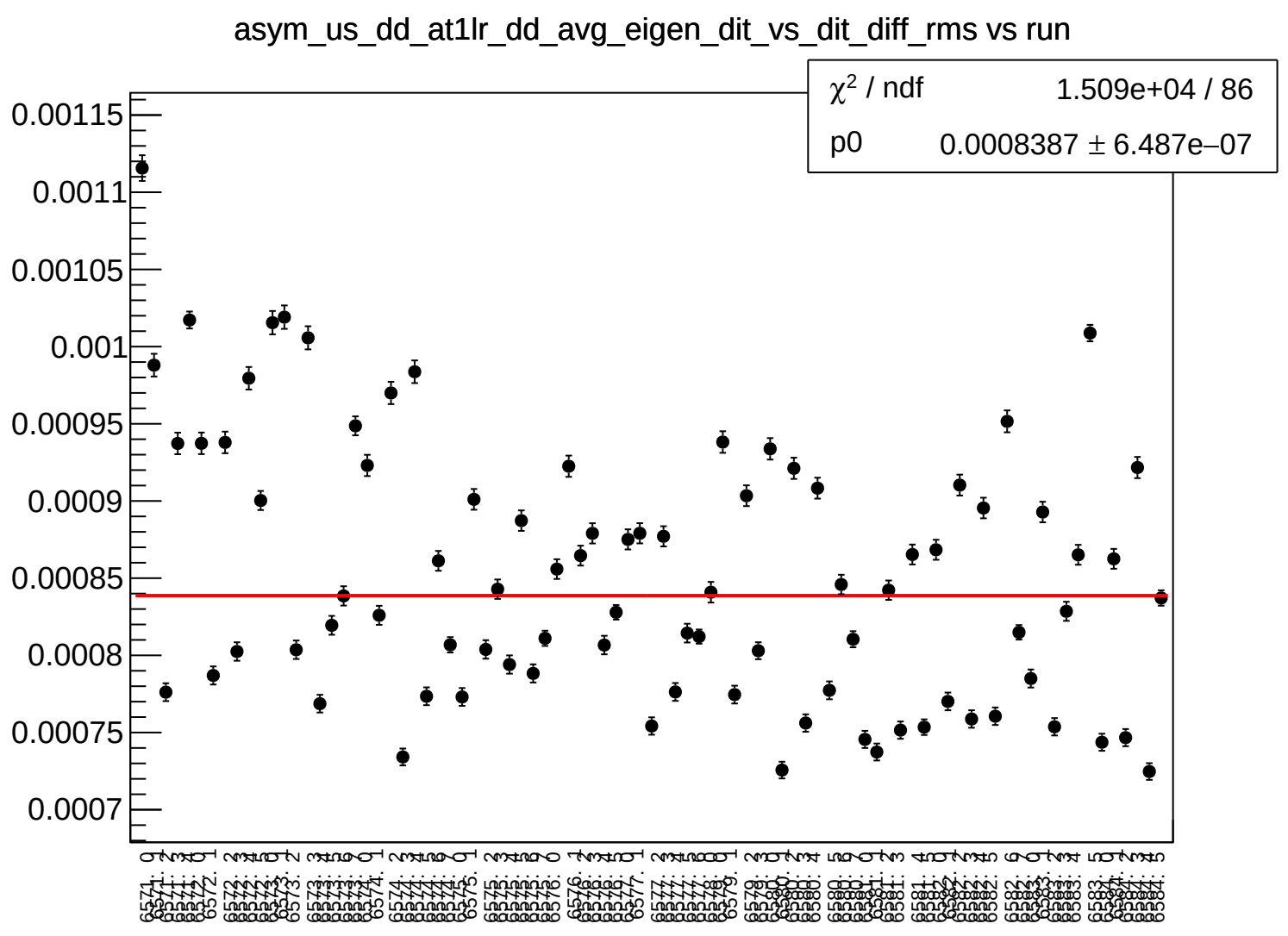

pull1D
Entries 87
Mean 0.03151
Std Dev 0.9457

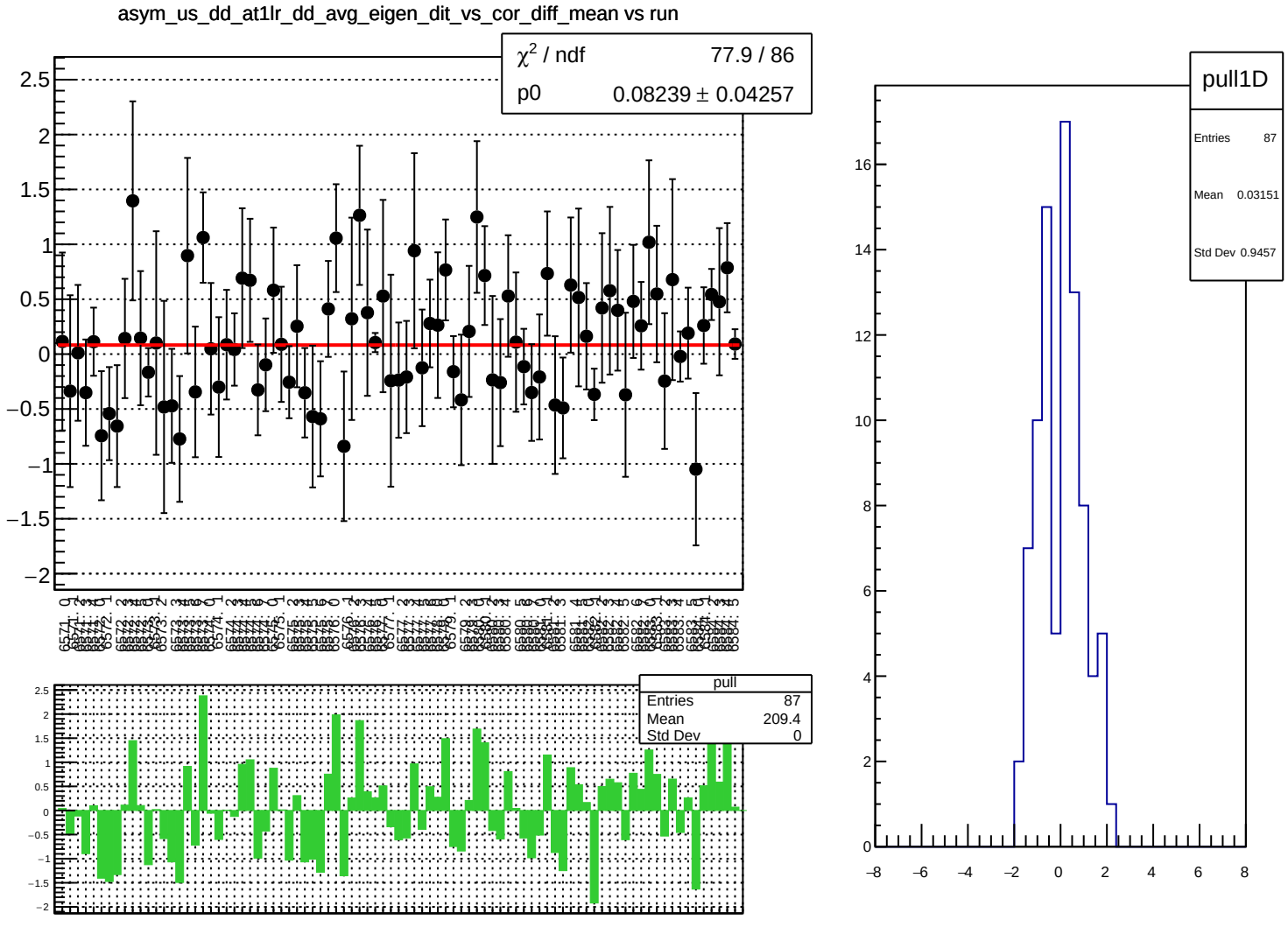

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.502e+05 / 86
p0 33.48 ± 0.0301
100
80
60
40
20

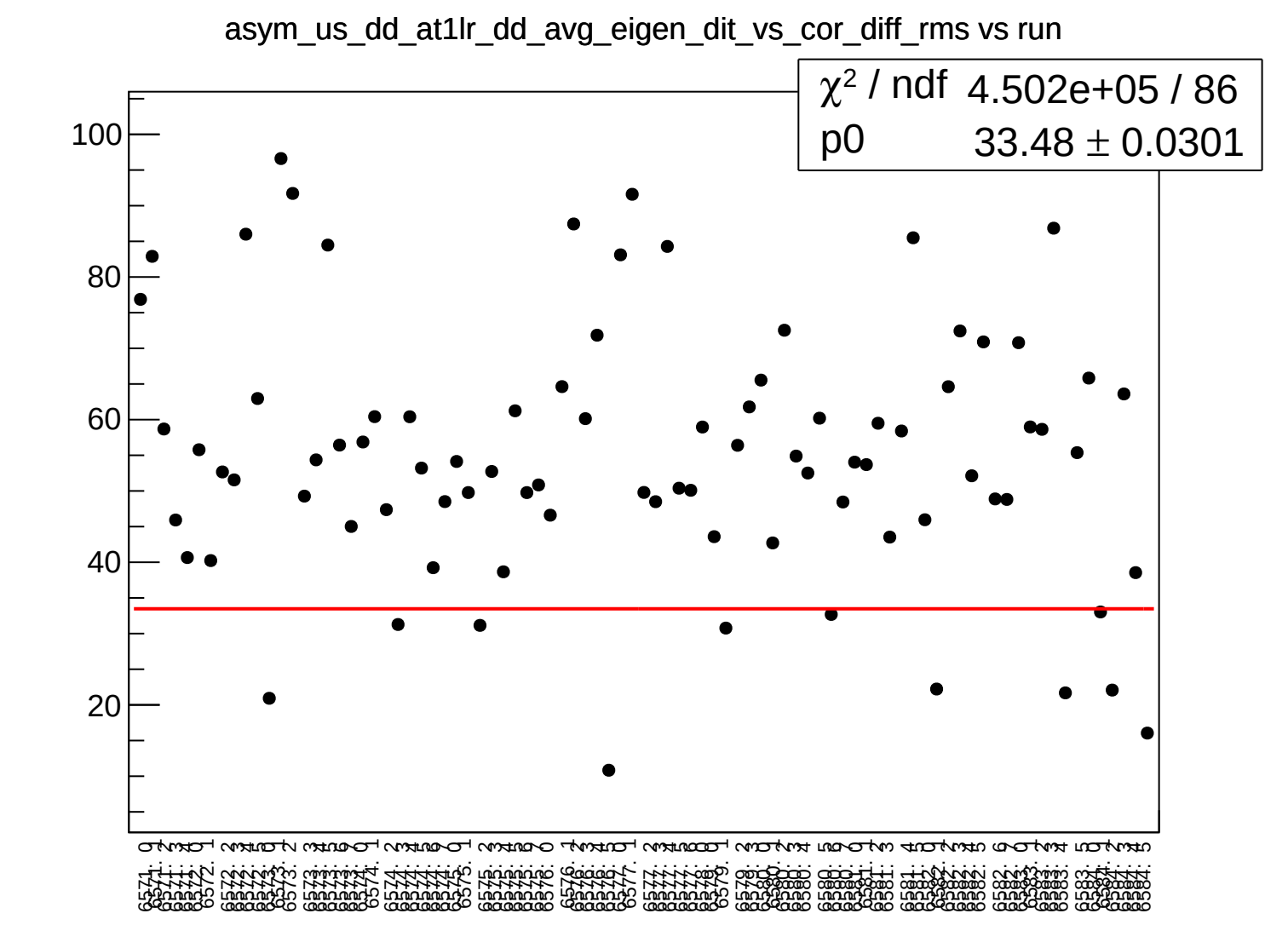

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.89 / 86
p0 0.08239 ± 0.04257
pull
Entries 87
Mean 209.4
Std Dev 0
pull1D
Entries 87
Mean 0.03151
Std Dev 0.9457

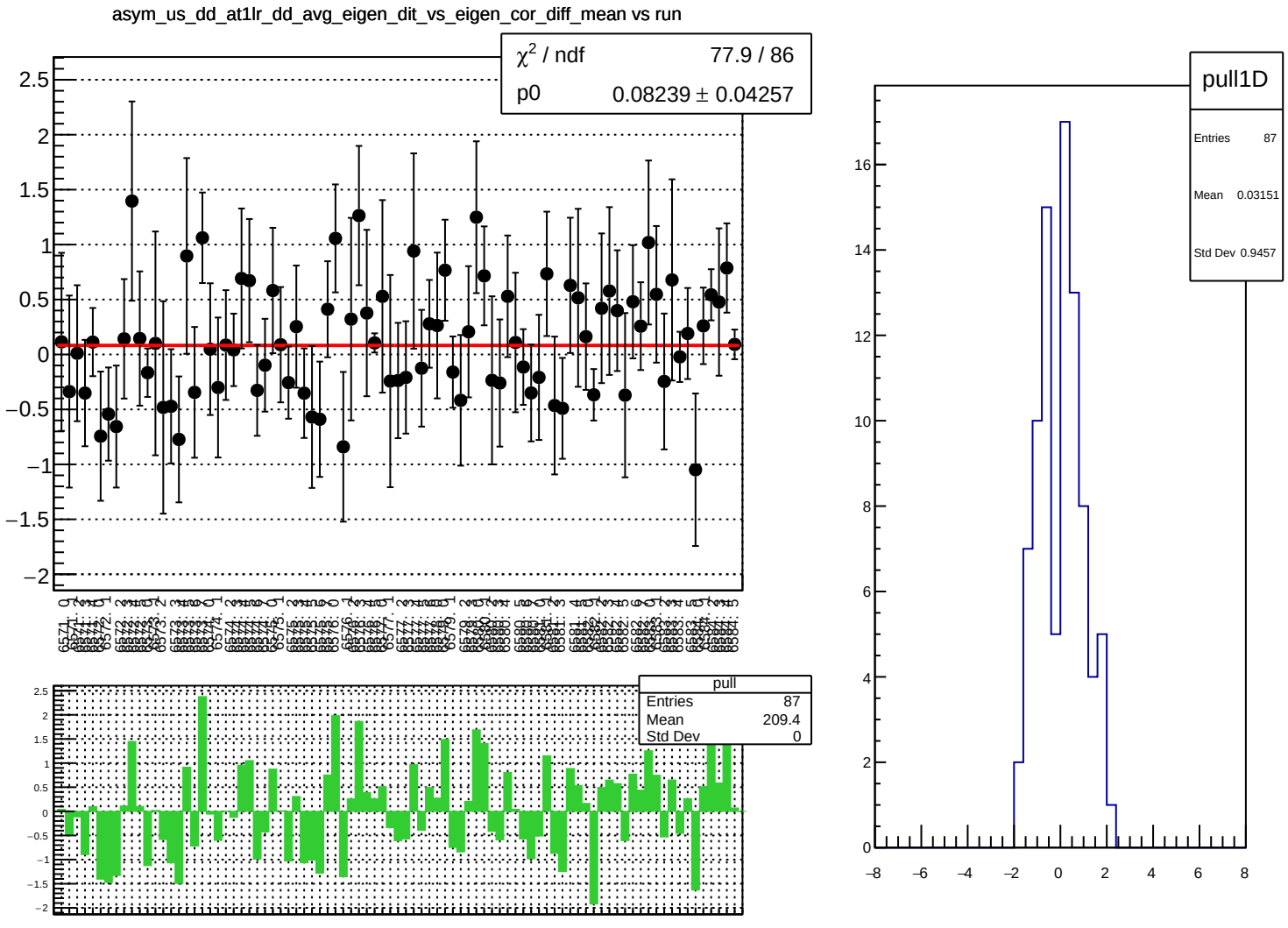

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.502e+05 / 86
p0 33.48 ± 0.0301
100
80
60
40
20

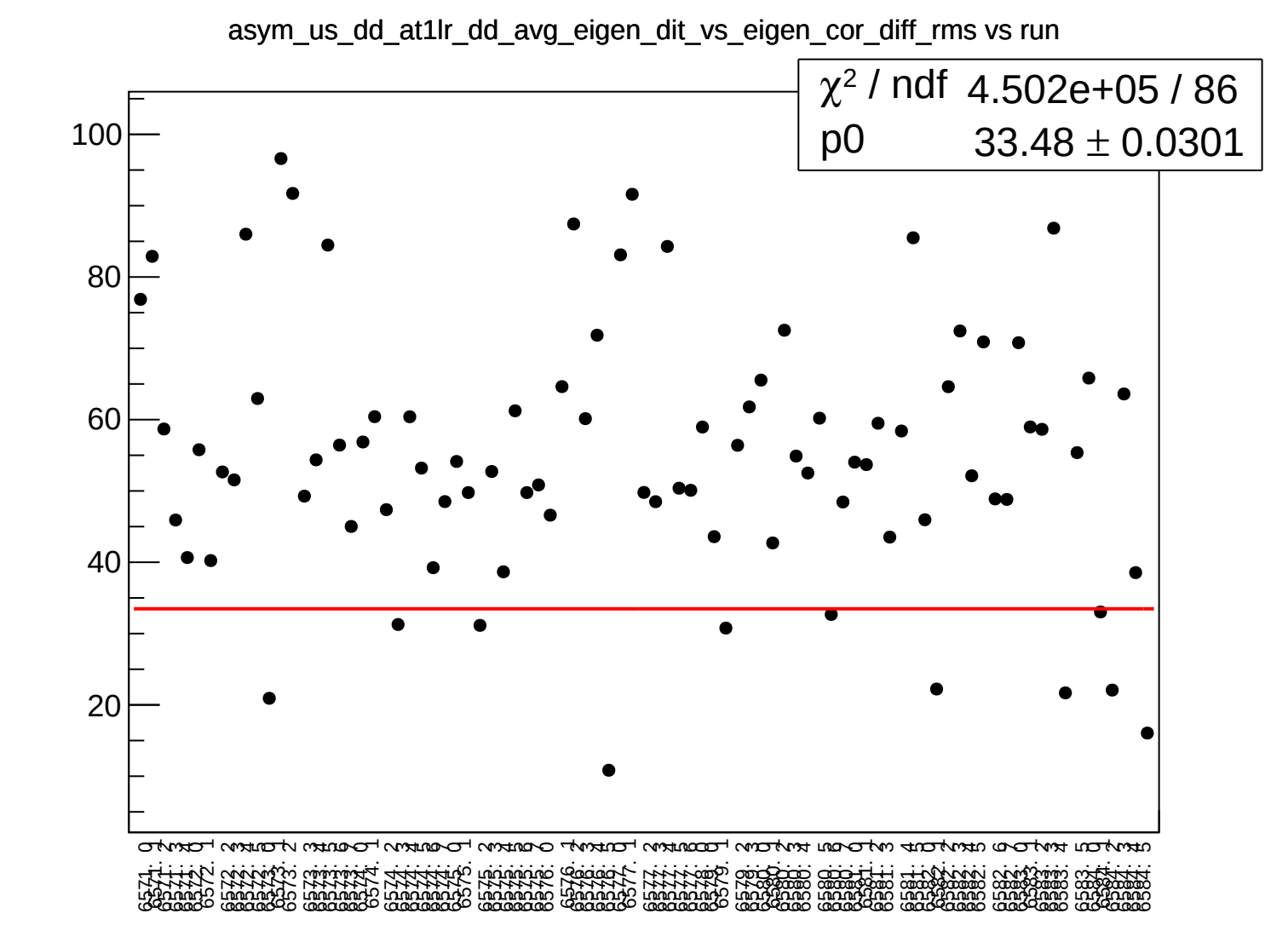

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.3 / 86
p0 1.495e−06 ± 9.174e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 87
Mean 36.41
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.00675
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

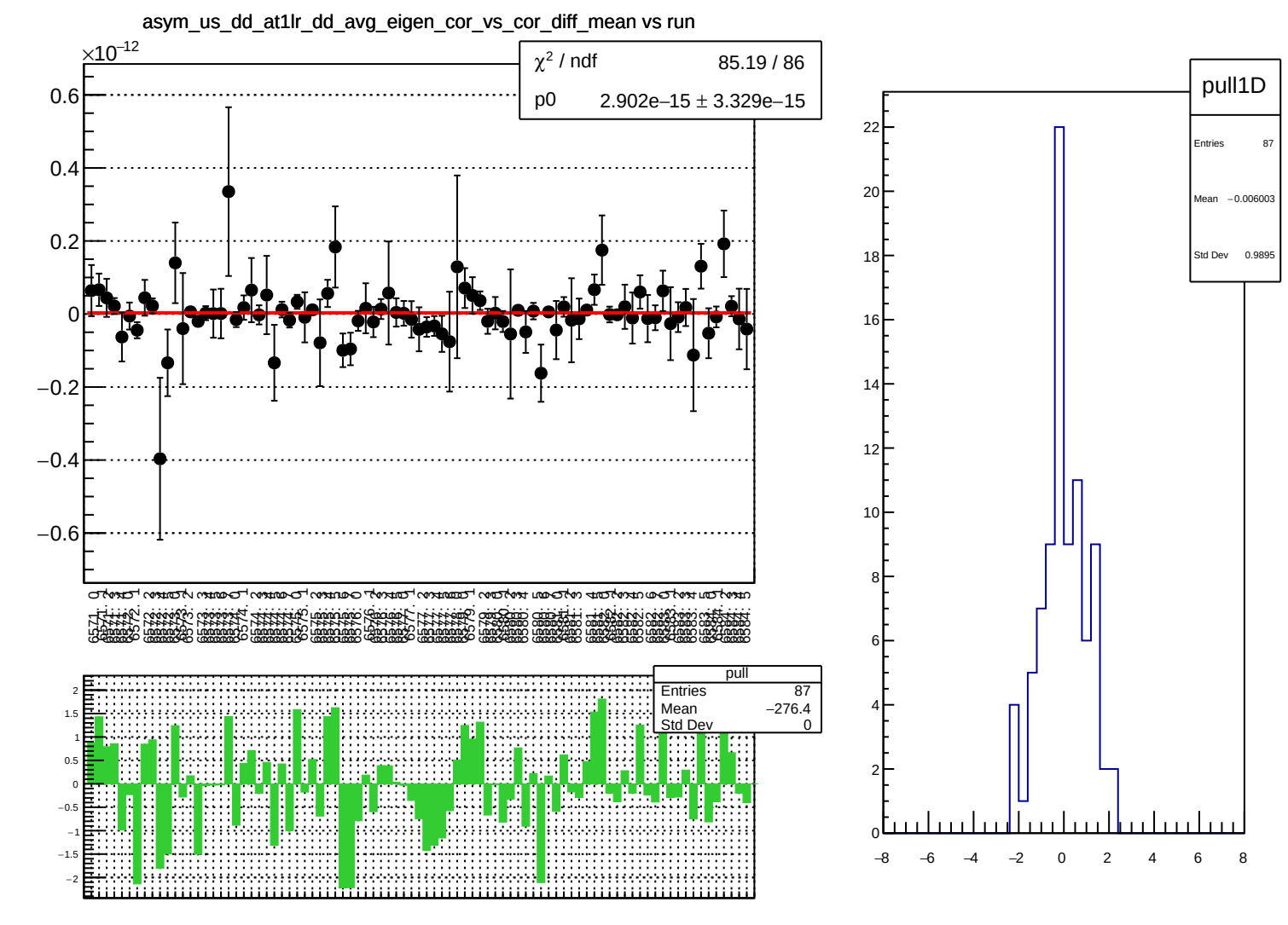

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.509e+04 / 86
p0 0.0008387 ± 6.487e−07
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075
0.0007

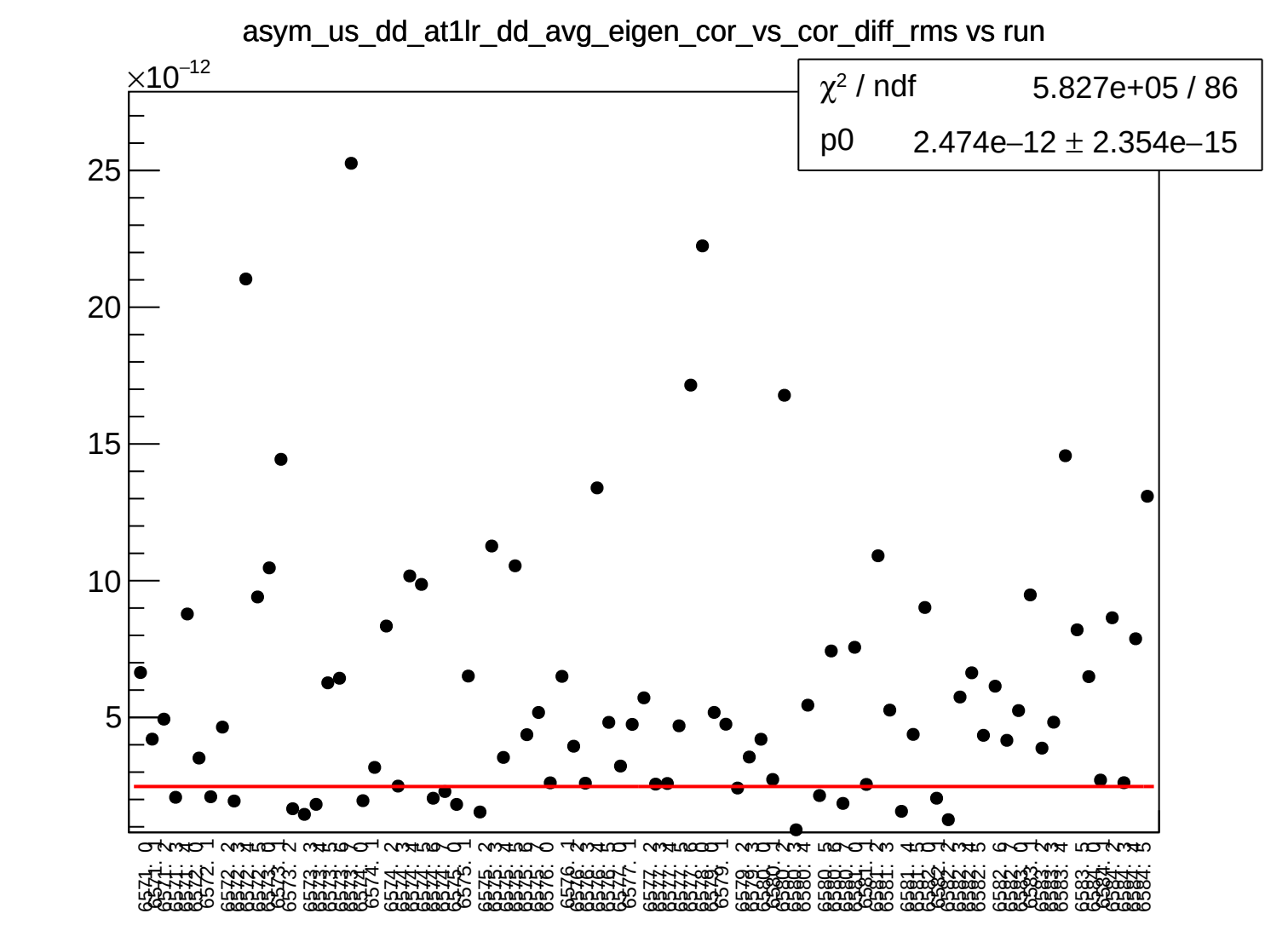

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.9 / 86
p0 0.08239 ± 0.04257
pull
Entries 87
Mean 209.4
Std Dev 0
pull1D
Entries 87
Mean 0.03151
Std Dev 0.9457

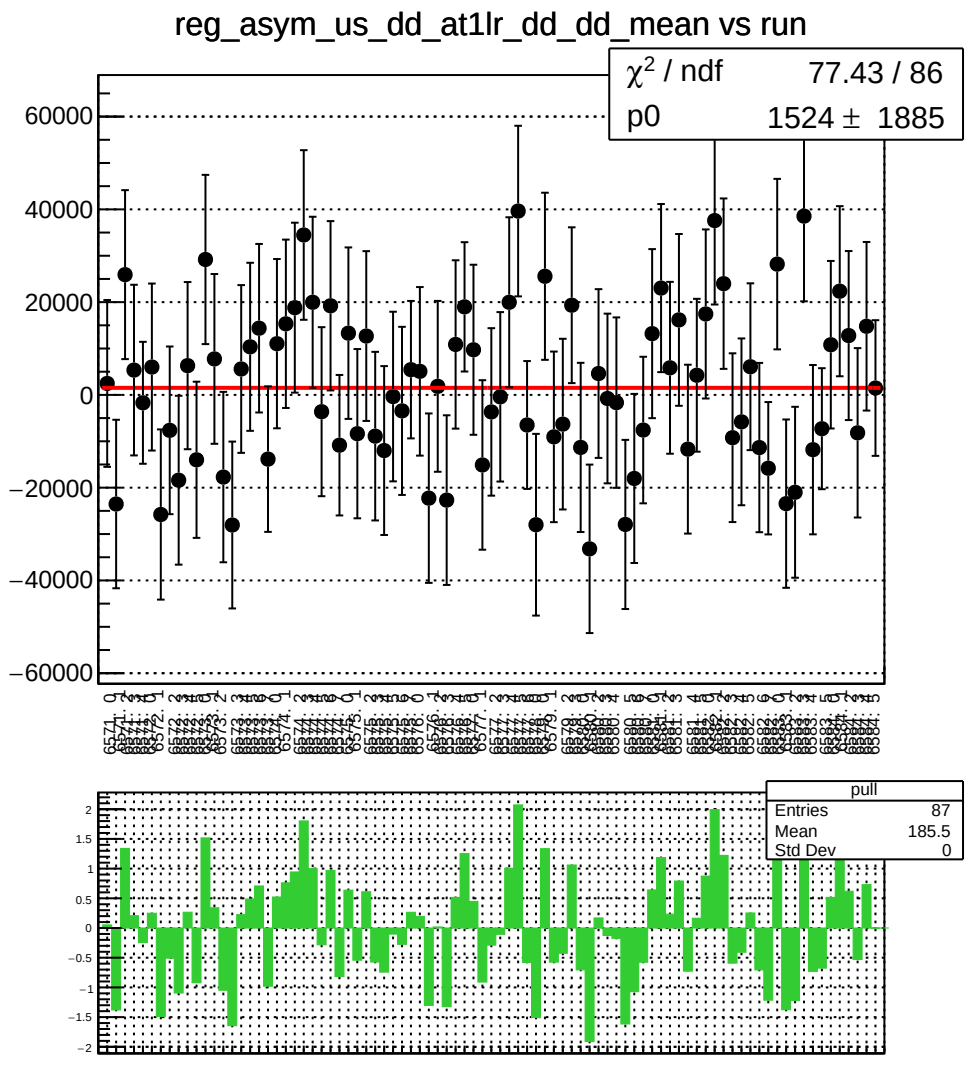

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.502e+05 / 86
p0 33.48 ± 0.0301
100
80
60
40
20

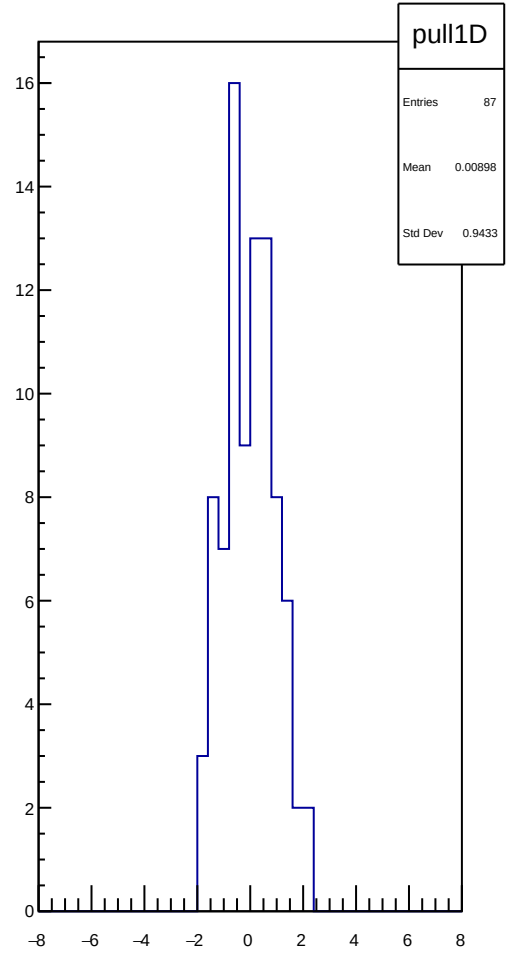

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.9 / 86
p0 0.08239 ± 0.04257
pull
Entries 87
Mean 209.4
Std Dev 0
pull1D
Entries 87
Mean 0.03151
Std Dev 0.9457

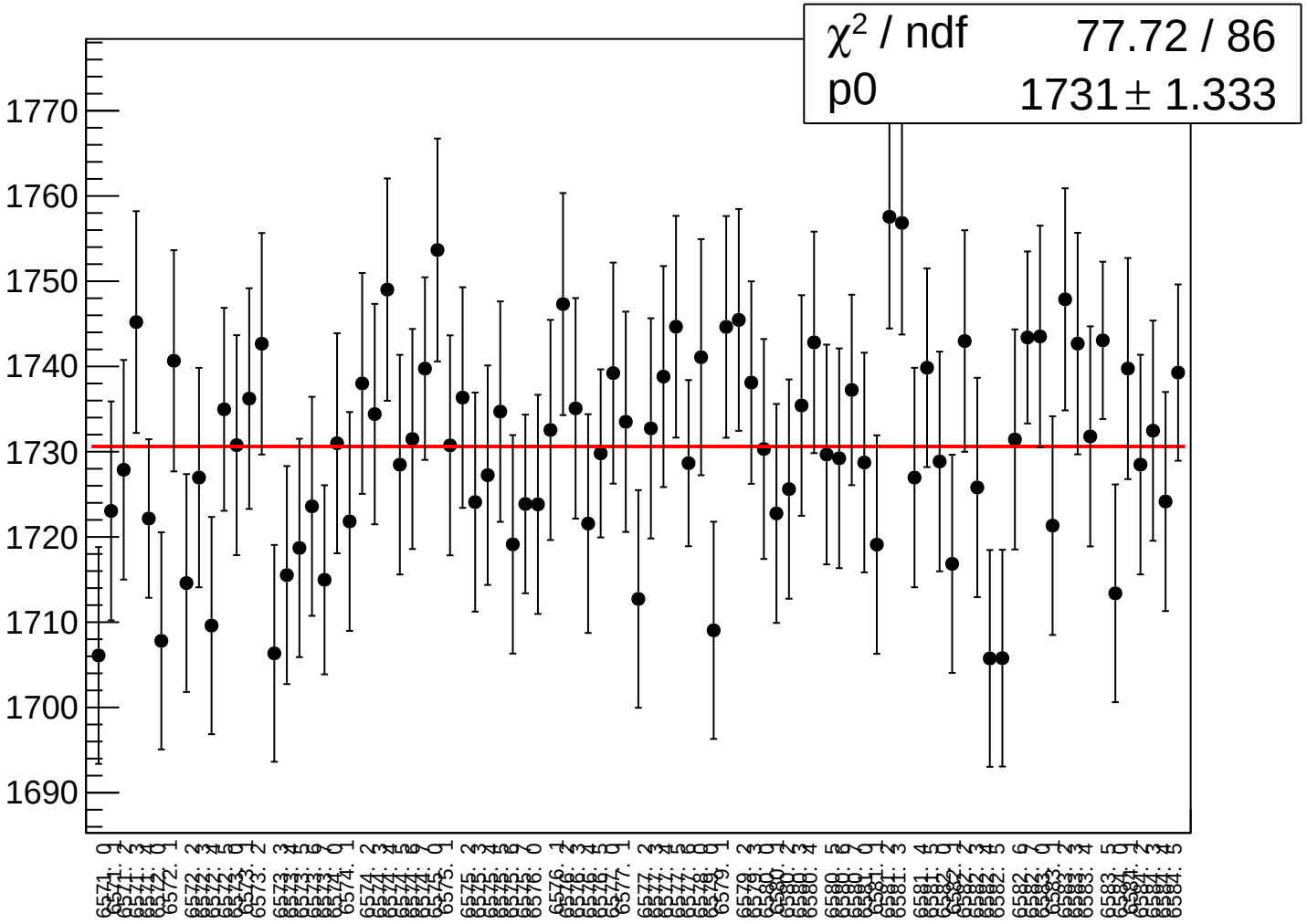

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.502e+05 / 86
p0 33.48 ± 0.0301
100
80
60
40
20

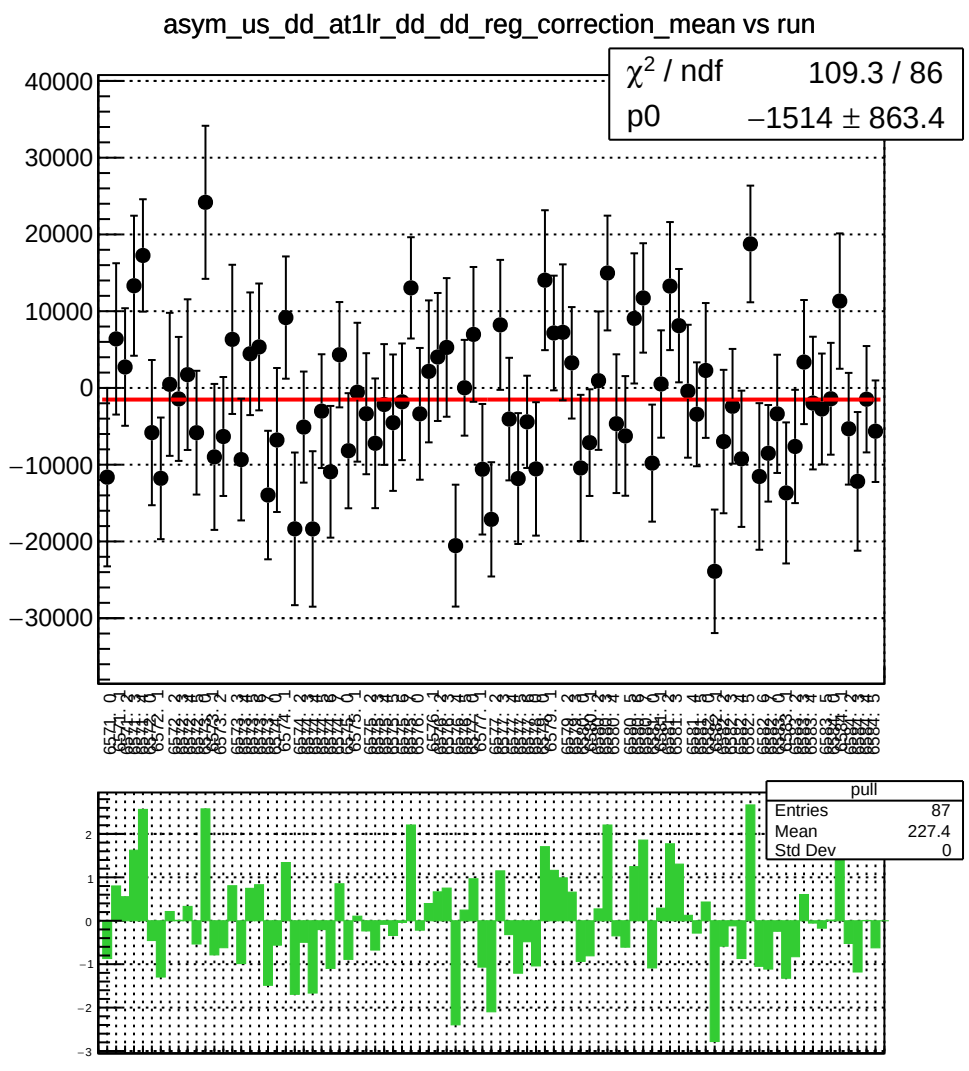

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.19 / 86
p0 2.902e−15 ± 3.329e−15
pull
Entries 87
Mean −276.4
Std Dev 0
pull1D
Entries 87
Mean −0.006003
Std Dev 0.9895

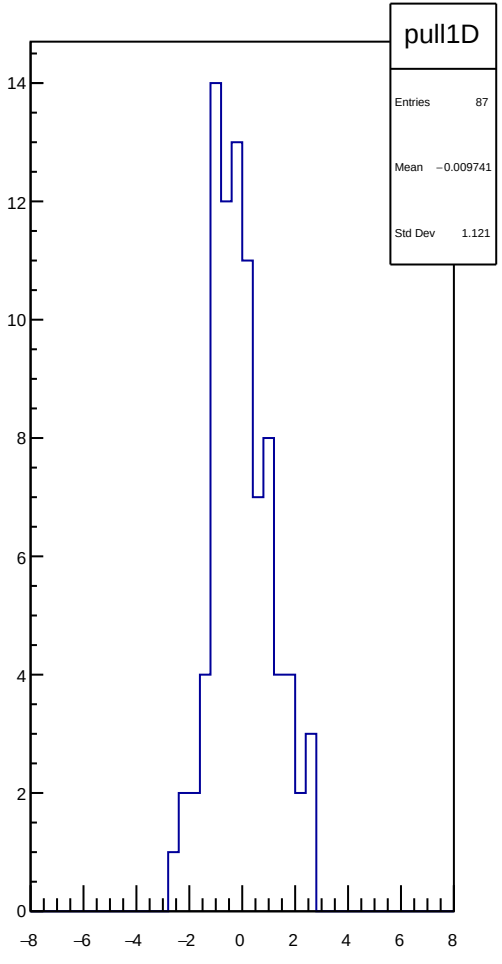

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.827e+05 / 86
p0 2.474e−12 ± 2.354e−15
25
20
15
10
5

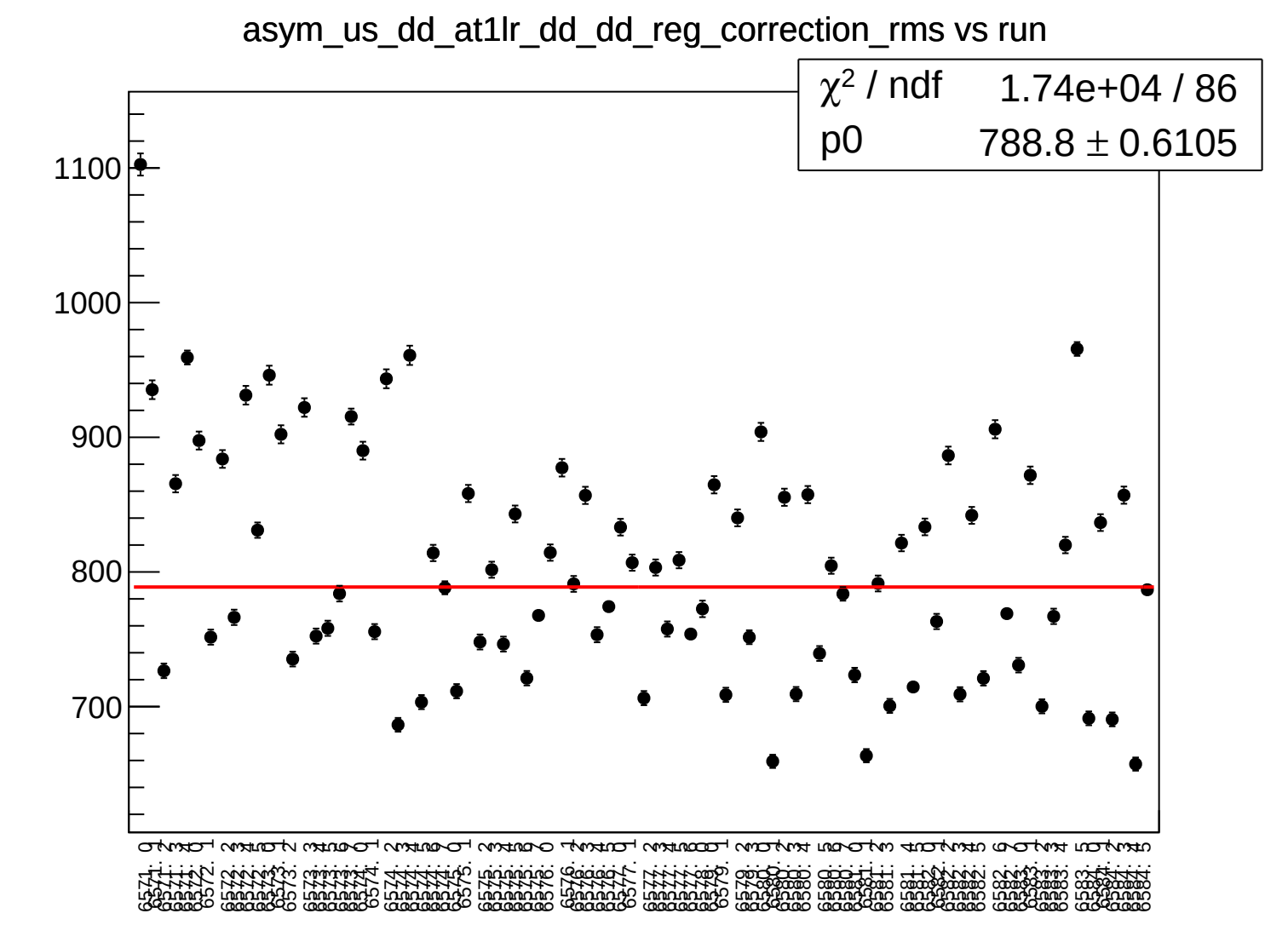

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 77.43 / 86
p0 1524 ± 1885
pull
Entries 87
Mean 185.5
Std Dev 0

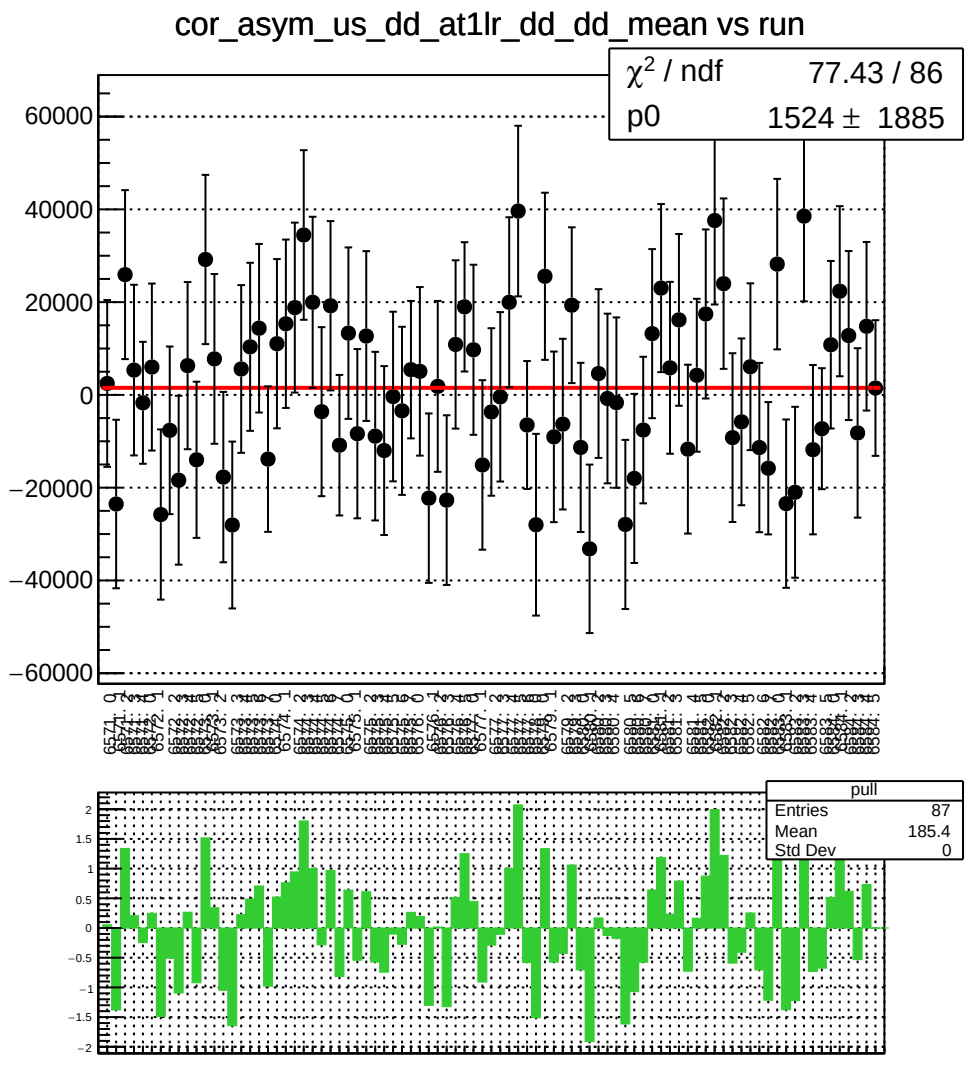

pull1D
Entries 87
Mean 0.00898
Std Dev 0.9433

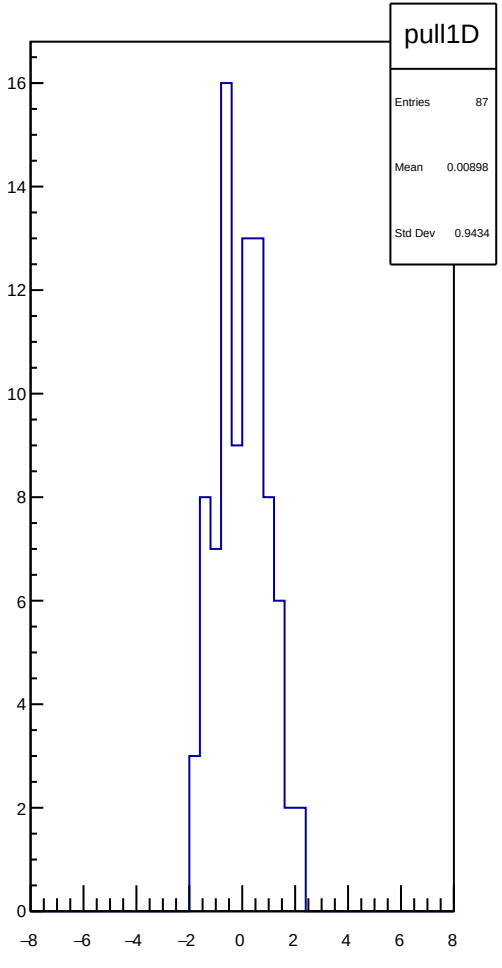

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 77.72 / 86
p0 1731 ± 1.333
1770
1760
1750
1740
1730
1720
1710
1700
1690

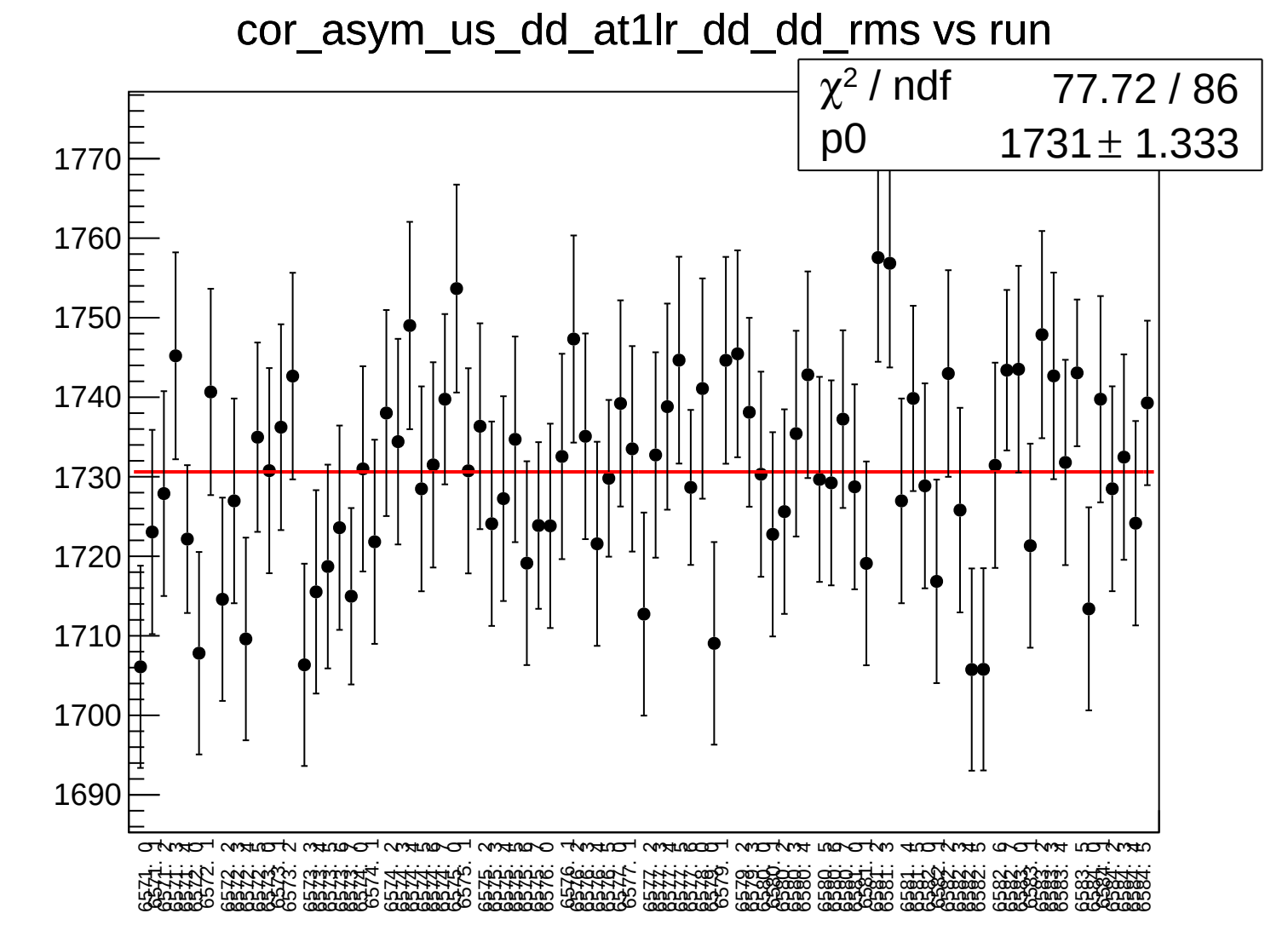

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 109.3 / 86
p0 −1514 ± 863.4
pull
Entries 87
Mean 227.4
Std Dev 0

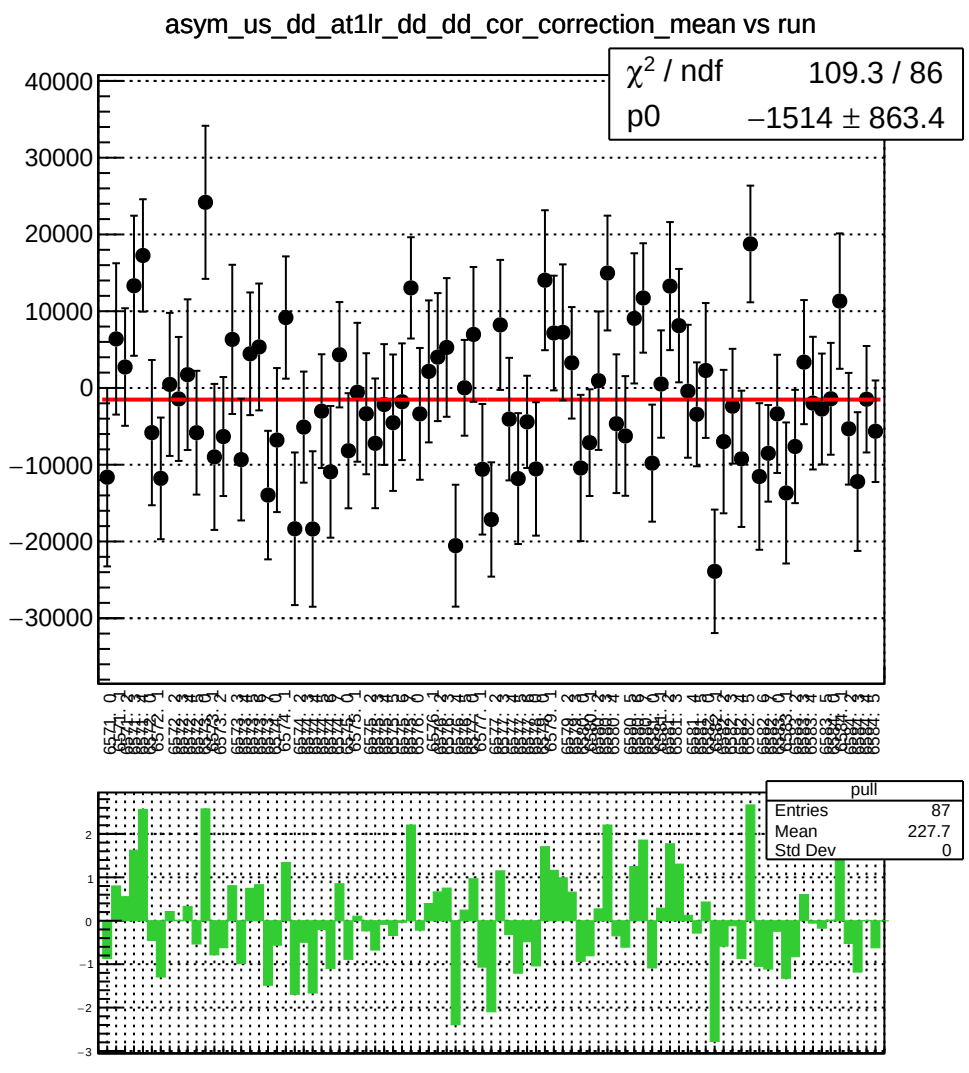

pull1D
Entries 87
Mean −0.009741
Std Dev 1.121

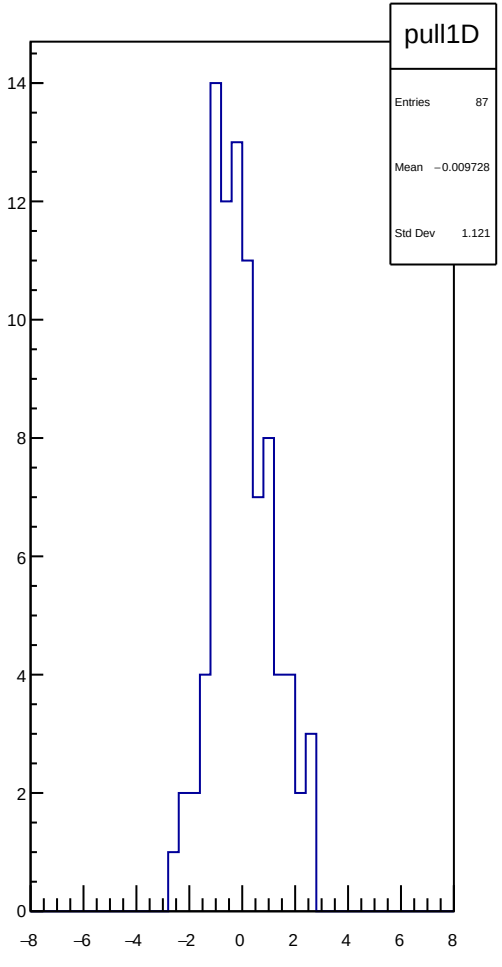

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.74e+04 / 86
p0 788.8 ± 0.6105
1100
1000
900
800
700

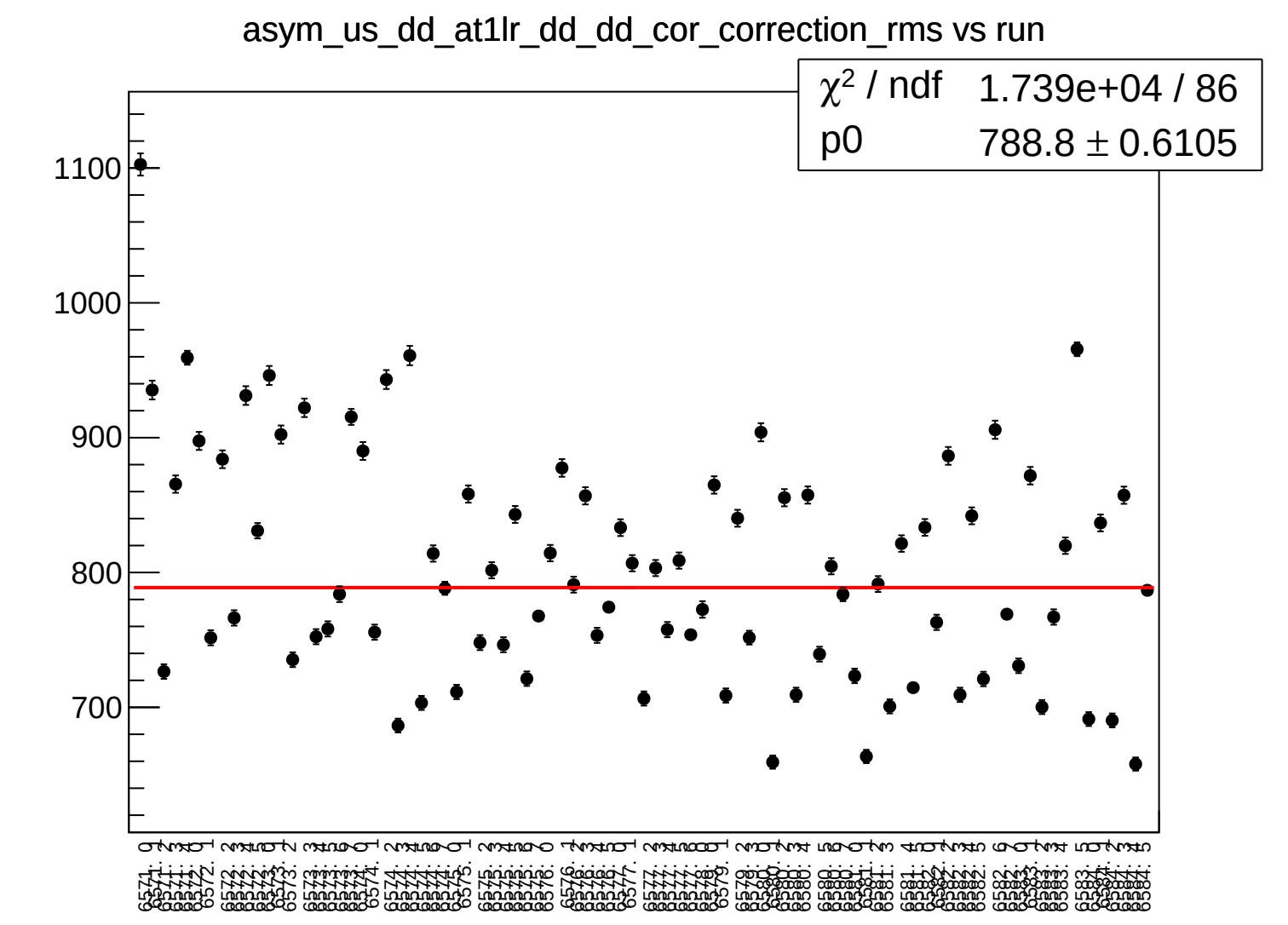

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 77.43 / 86
p0 1524 ± 1885
pull
Entries 87
Mean 185.4
Std Dev 0

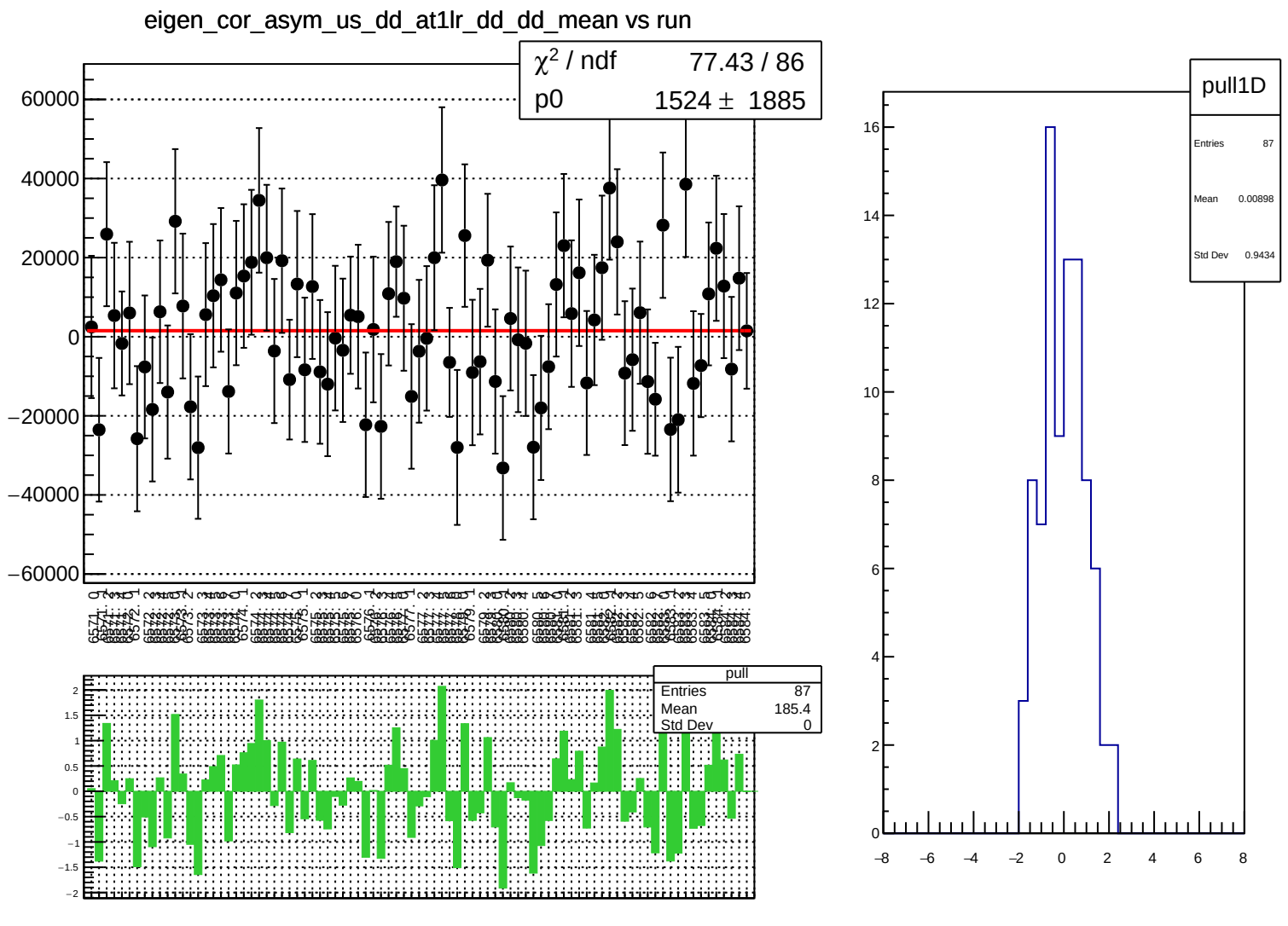

pull1D
Entries 87
Mean 0.00898
Std Dev 0.9434

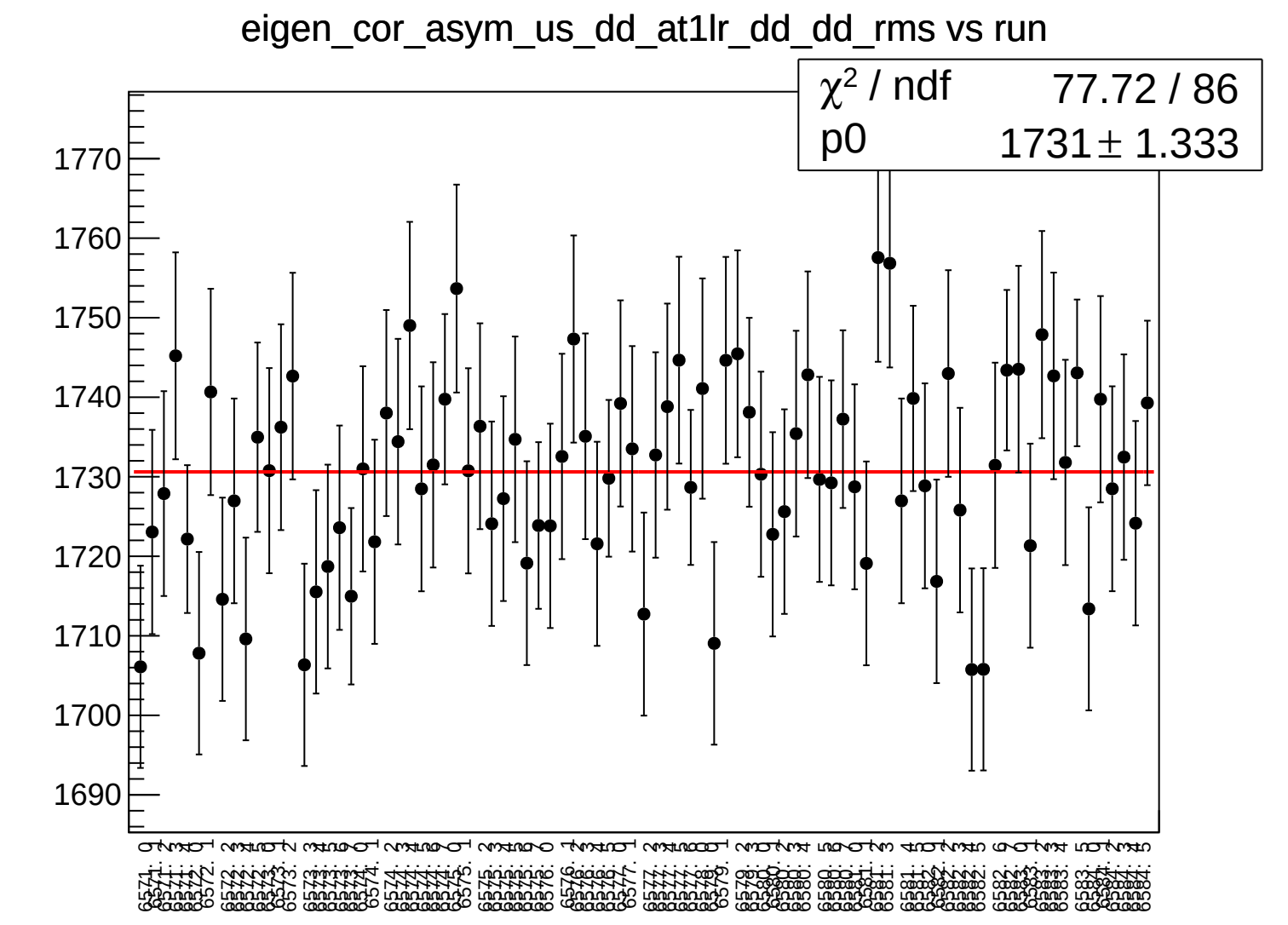

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 77.72 / 86
p0 1731 ± 1.333
1770
1760
1750
1740
1730
1720
1710
1700
1690

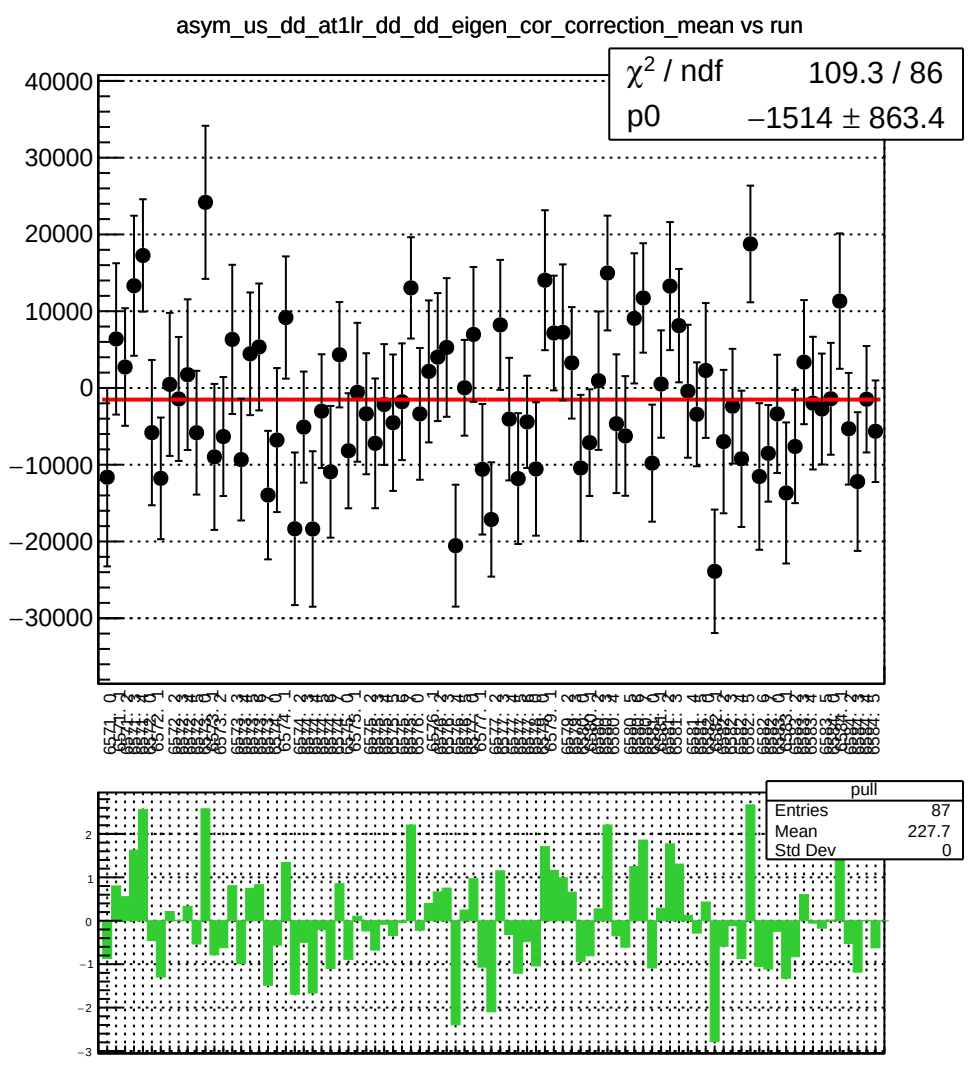

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 109.3 / 86
p0 −1514 ± 863.4
pull
Entries 87
Mean 227.7
Std Dev 0

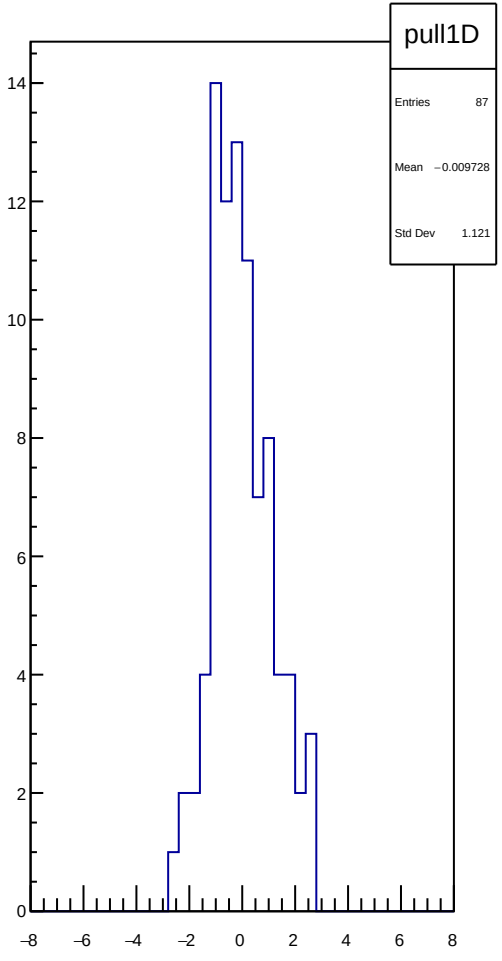

pull1D
Entries 87
Mean −0.009728
Std Dev 1.121

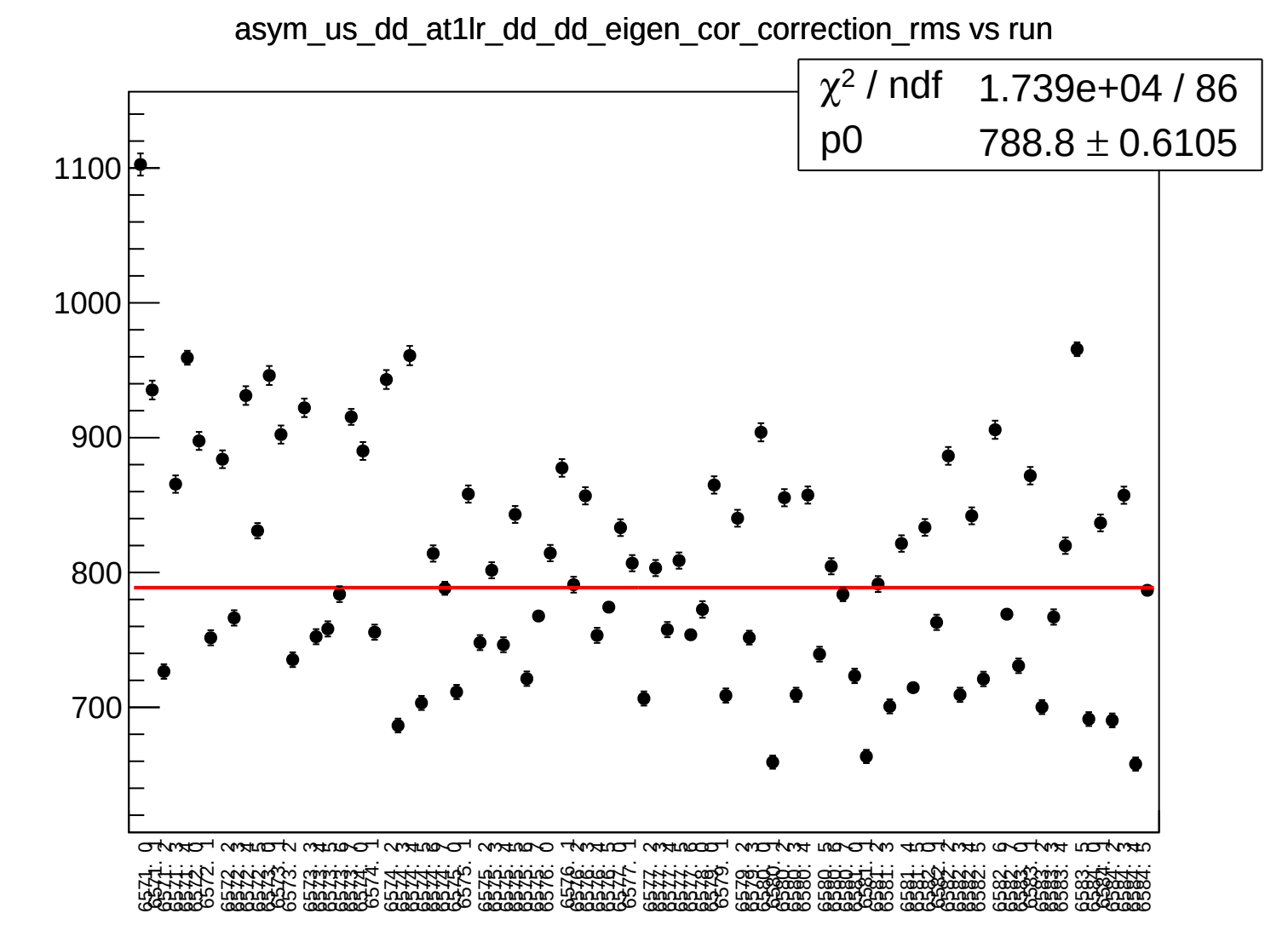

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.739e+04 / 86
p0 788.8 ± 0.6105
1100
1000
900
800
700

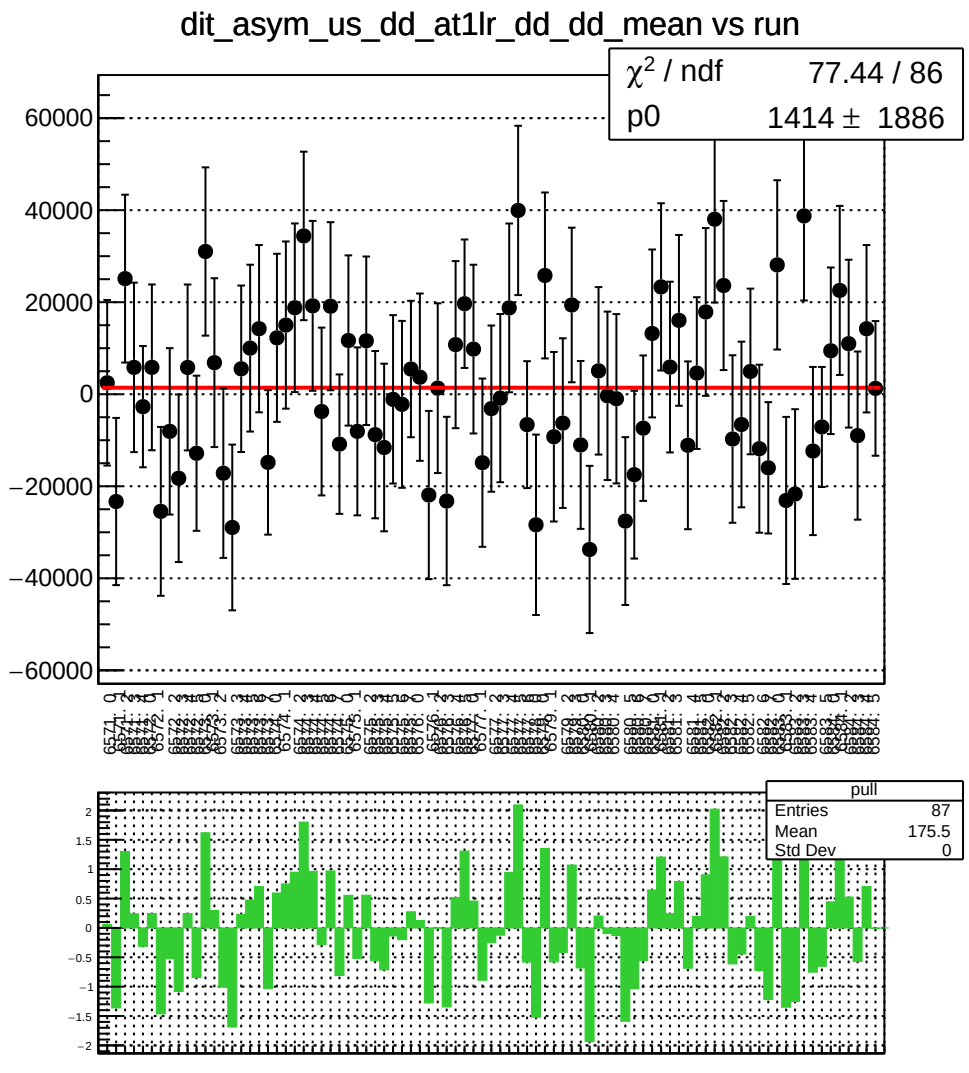

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 77.43 / 86
p0 1524 ± 1885
pull
Entries 87
Mean 185.4
Std Dev 0
pull1D
Entries 87
Mean 0.00898
Std Dev 0.9434

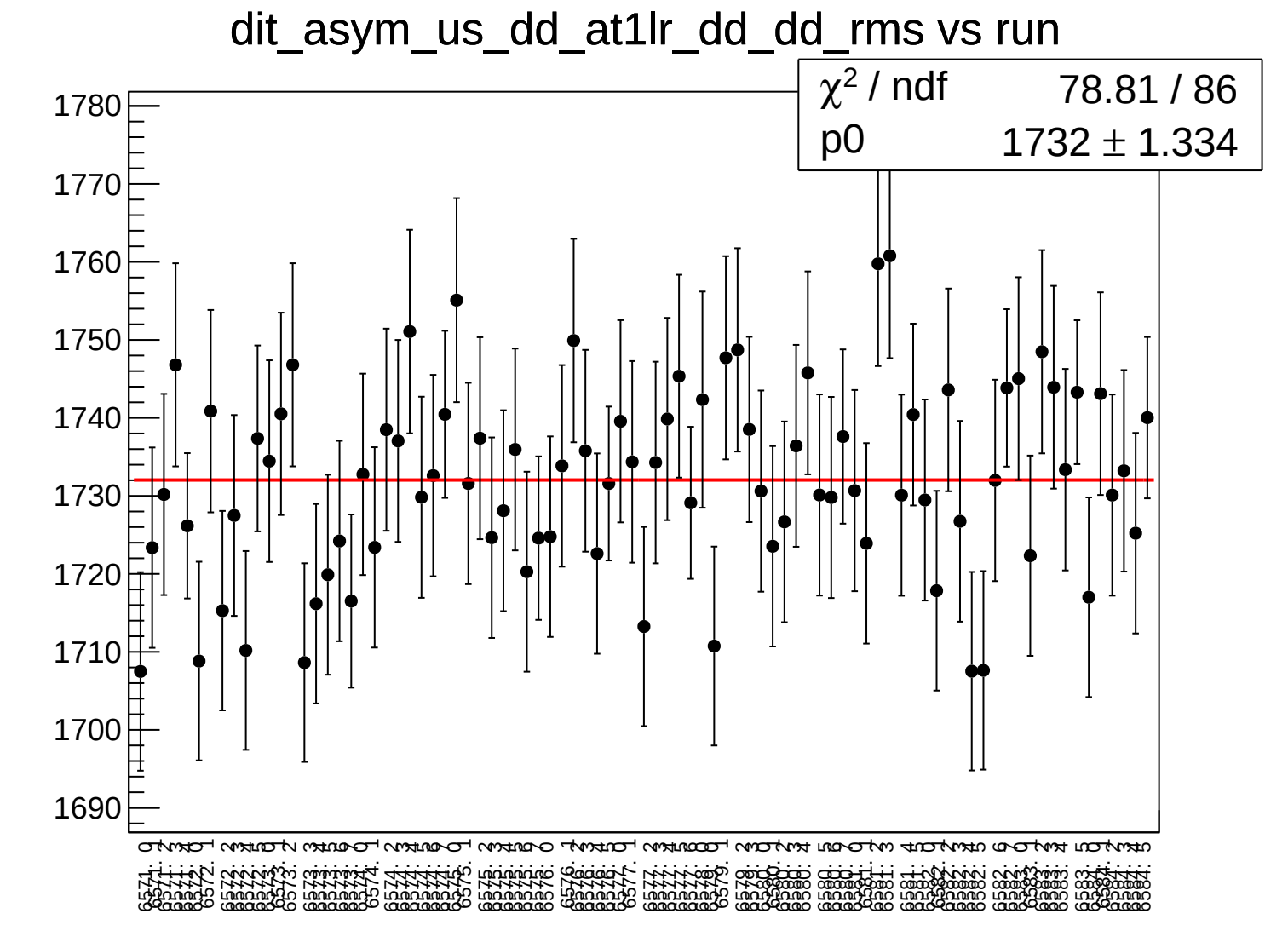

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 77.72 / 86
p0 1731 ± 1.333
1770
1760
1750
1740
1730
1720
1710
1700
1690

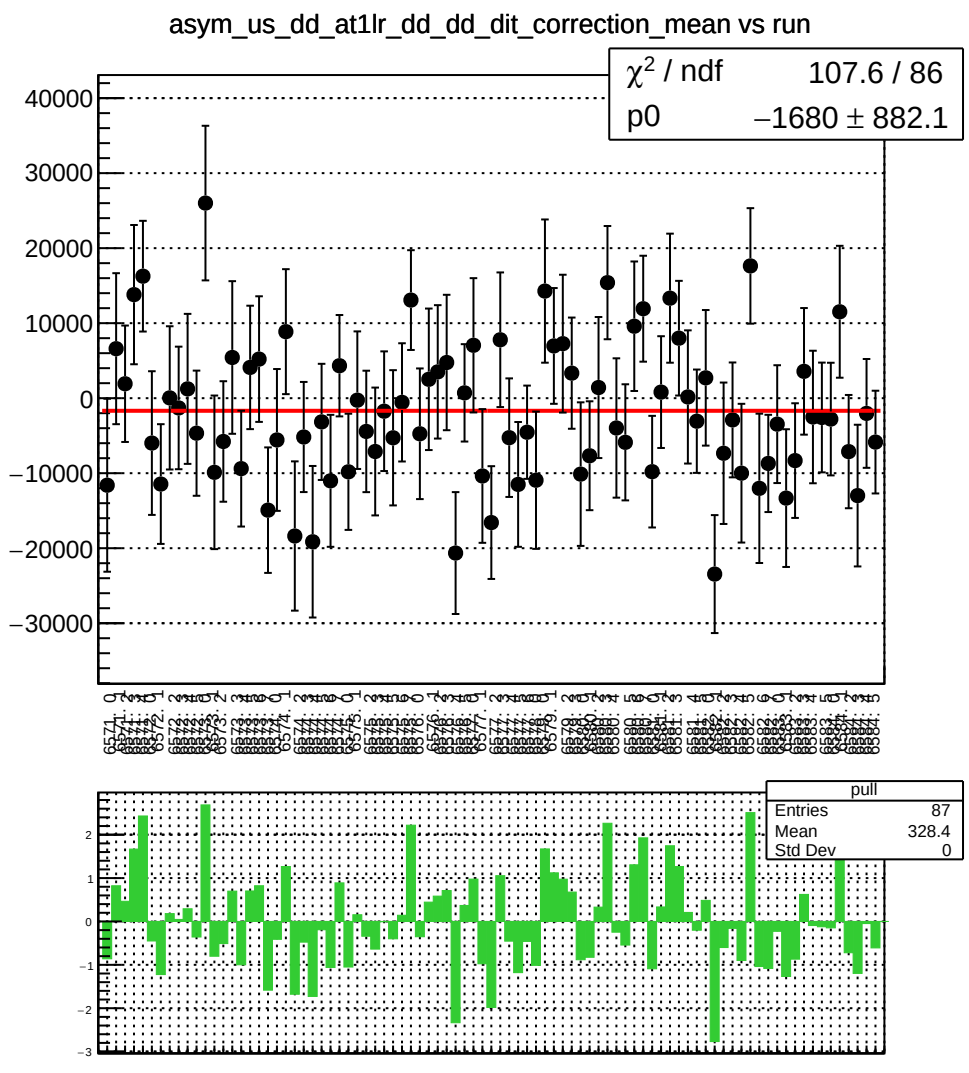

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 109.3 / 86
p0 −1514 ± 863.4
pull
Entries 87
Mean 227.7
Std Dev 0

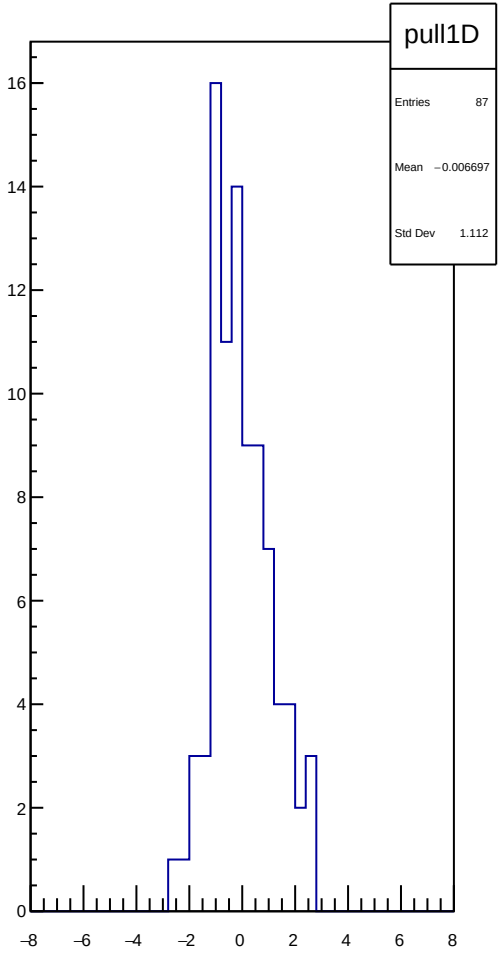

pull1D
Entries 87
Mean −0.009728
Std Dev 1.121

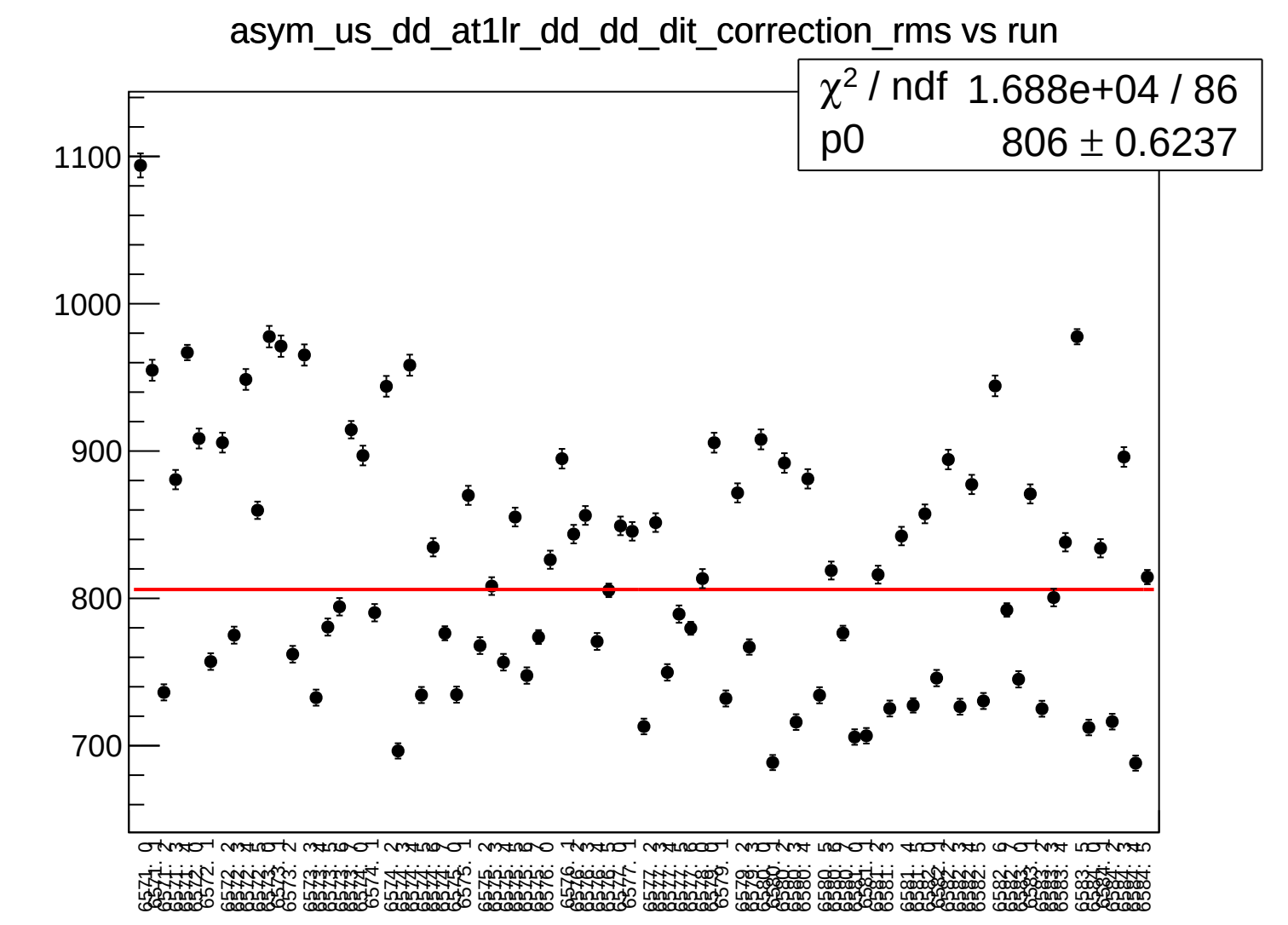

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.739e+04 / 86
p0 788.8 ± 0.6105
1100
1000
900
800
700

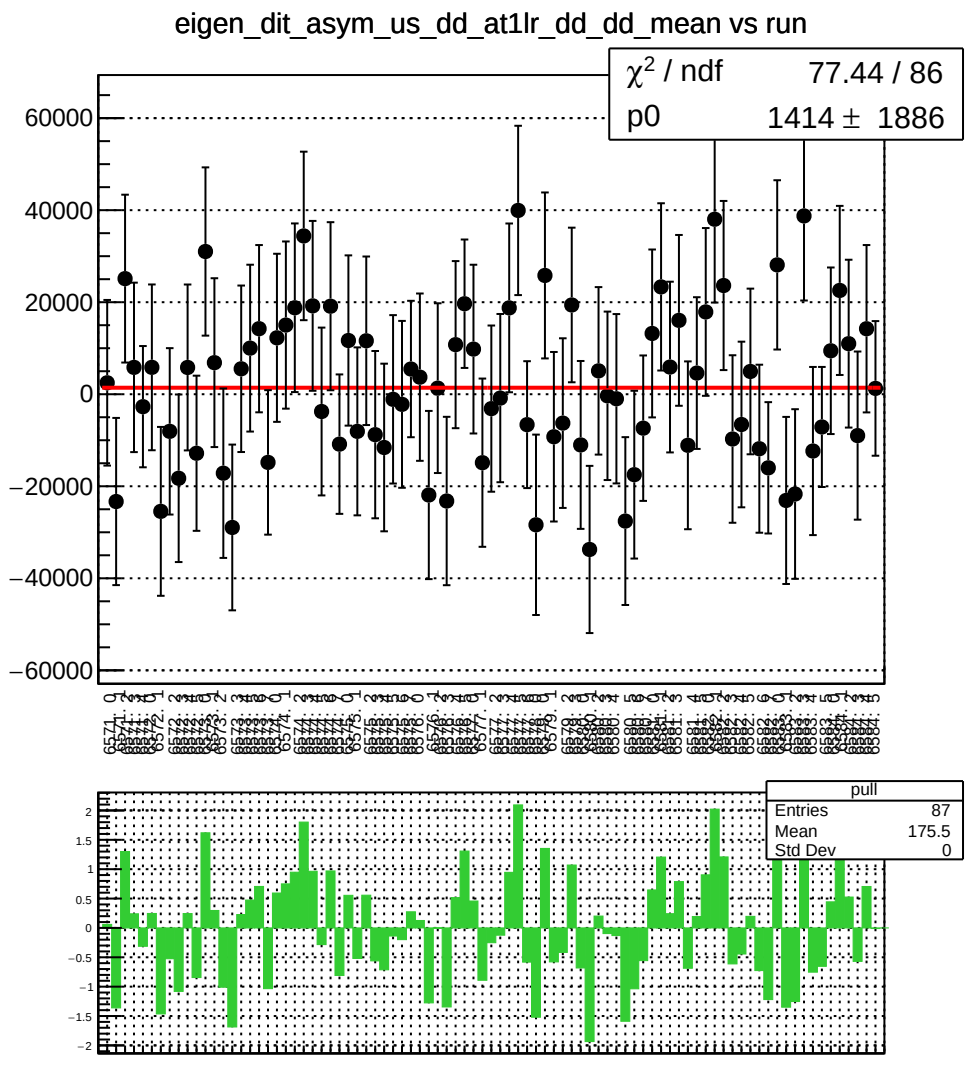

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 77.44 / 86
p0 1414 ± 1886
pull
Entries 87
Mean 175.5
Std Dev 0
pull1D
Entries 87
Mean 0.009052
Std Dev 0.9434

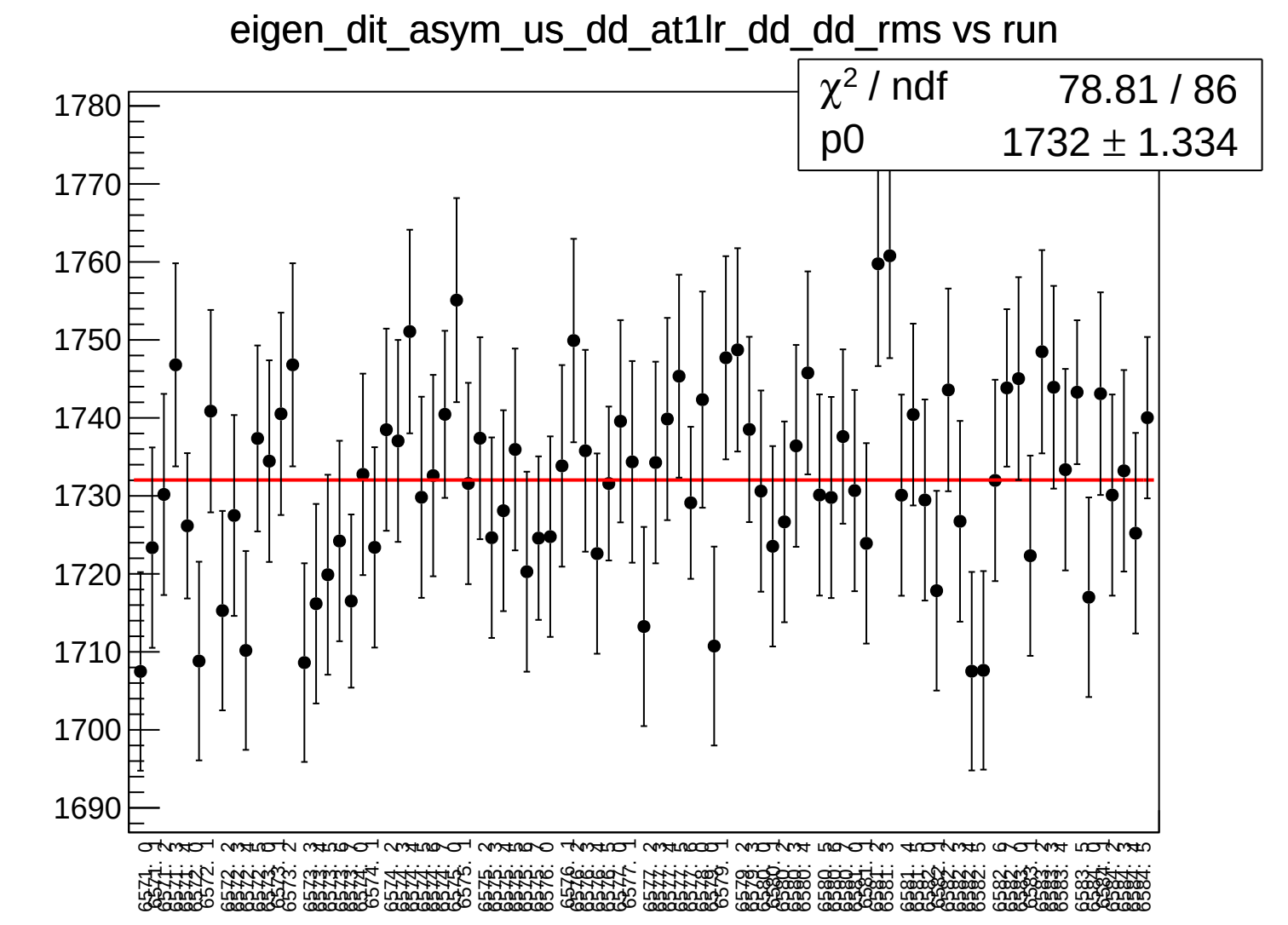

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 78.81 / 86
p0 1732 ± 1.334
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690


asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 107.6 / 86
p0 −1680 ± 882.1
pull
Entries 87
Mean 328.4
Std Dev 0

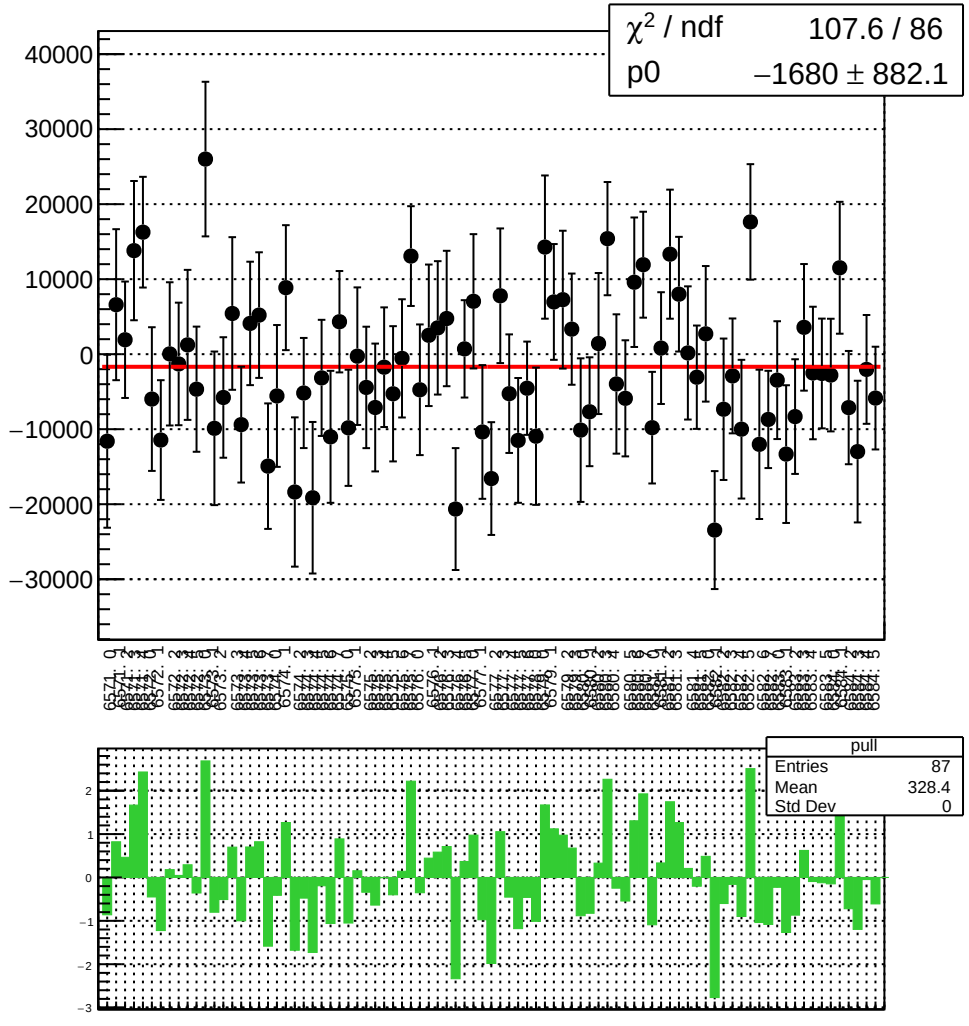

pull1D
Entries 87
Mean −0.006697
Std Dev 1.112

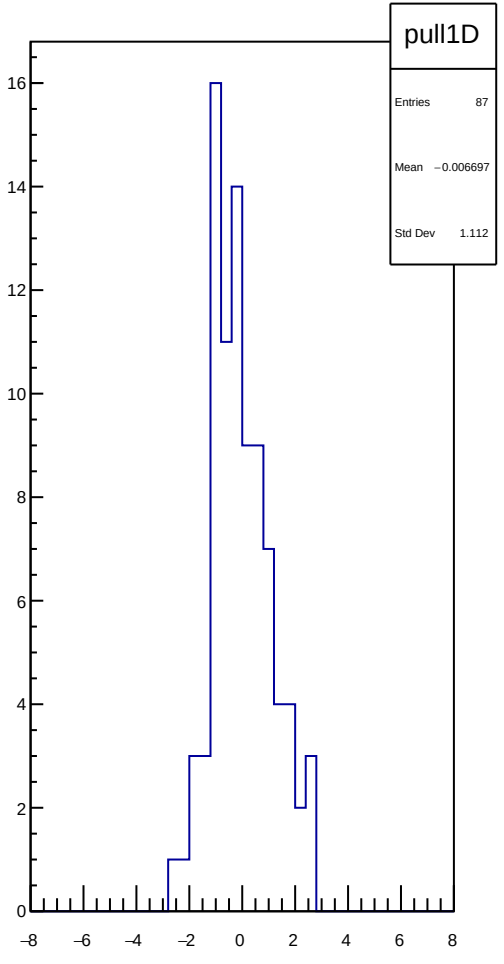

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.688e+04 / 86
p0 806 ± 0.6237
1100
1000
900
800
700

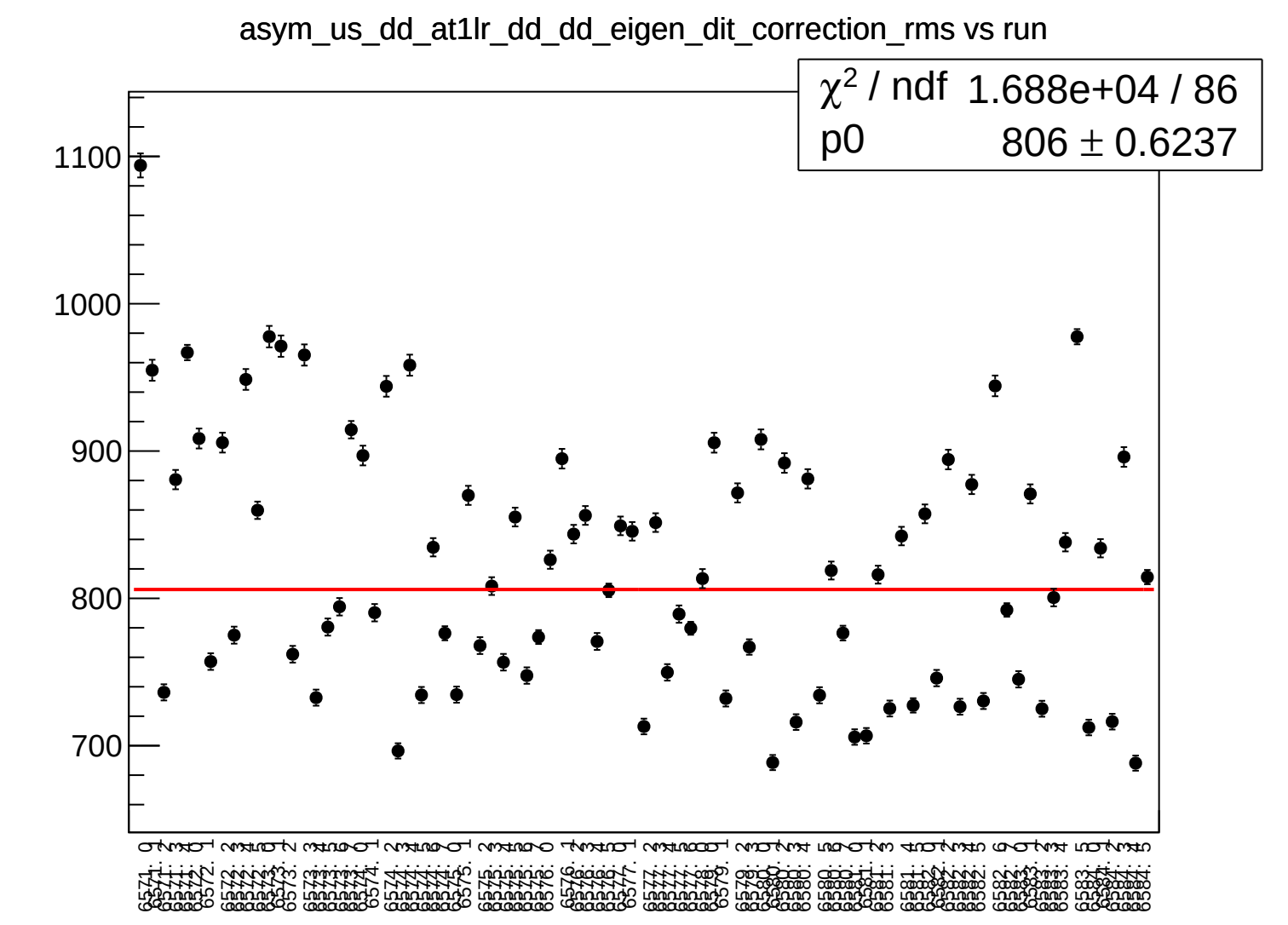

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 77.44 / 86
p0 1414 ± 1886
pull
Entries 87
Mean 175.5
Std Dev 0
pull1D
Entries 87
Mean 0.009052
Std Dev 0.9434

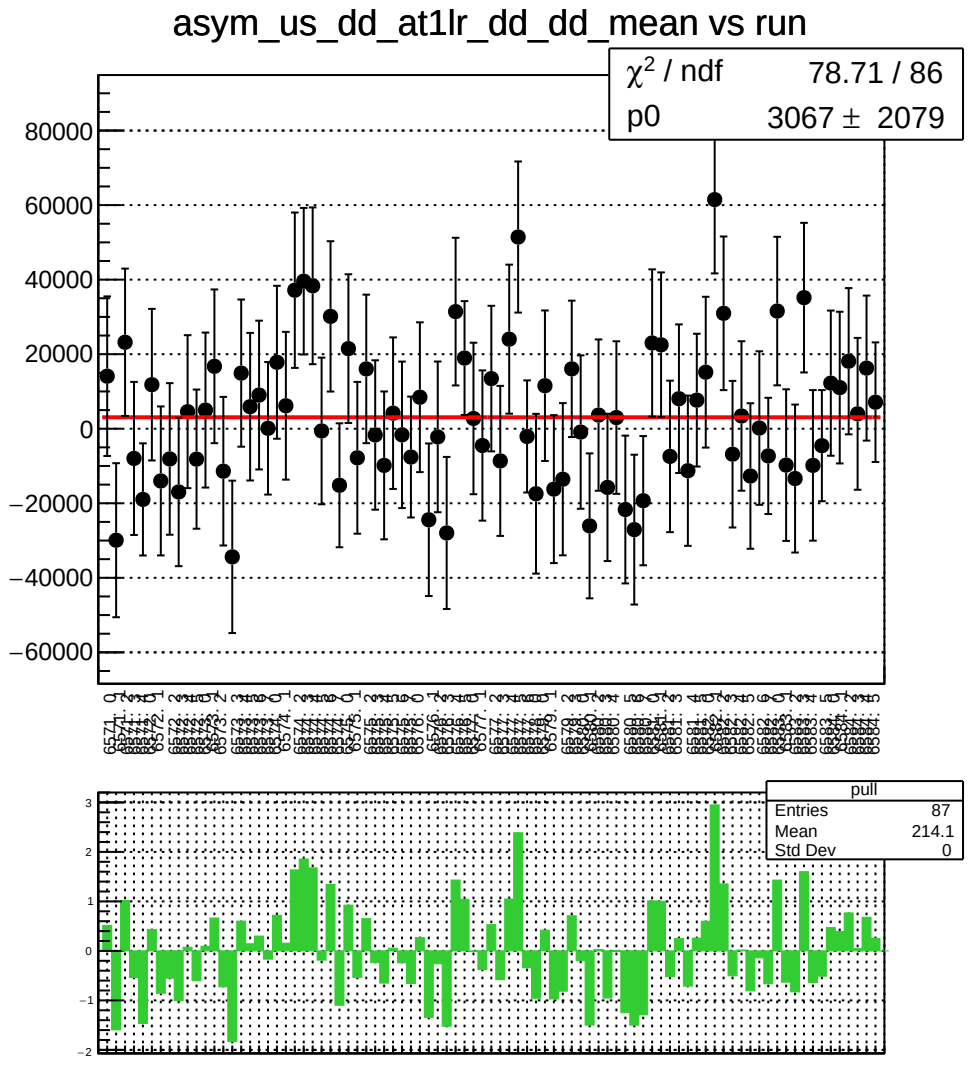

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 78.81 / 86
p0 1732 ± 1.334
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

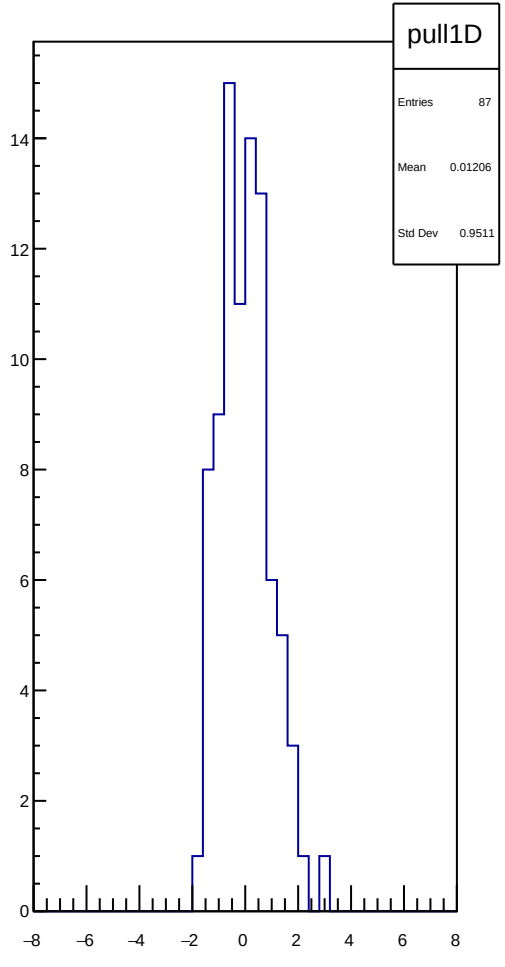
asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run

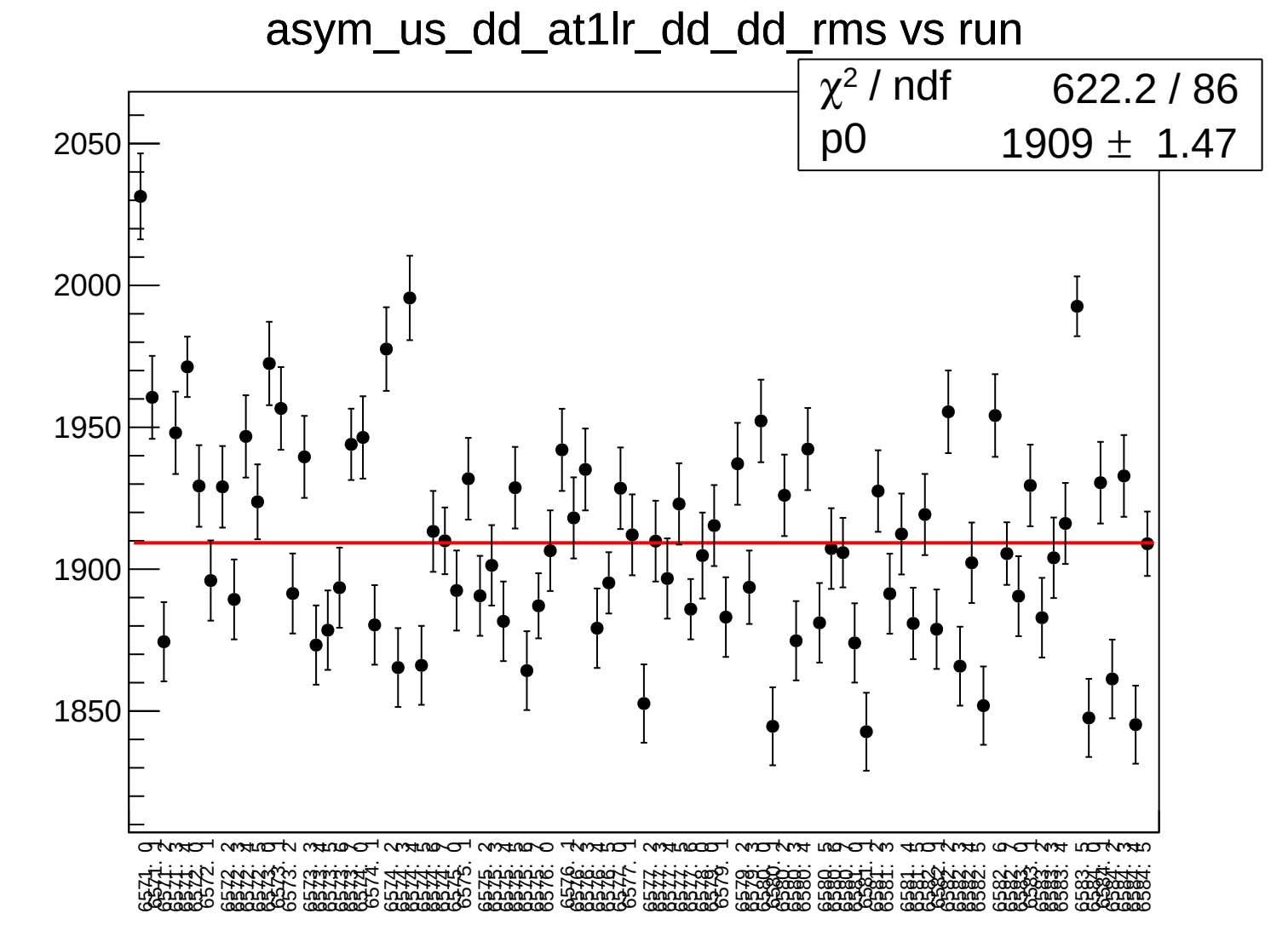


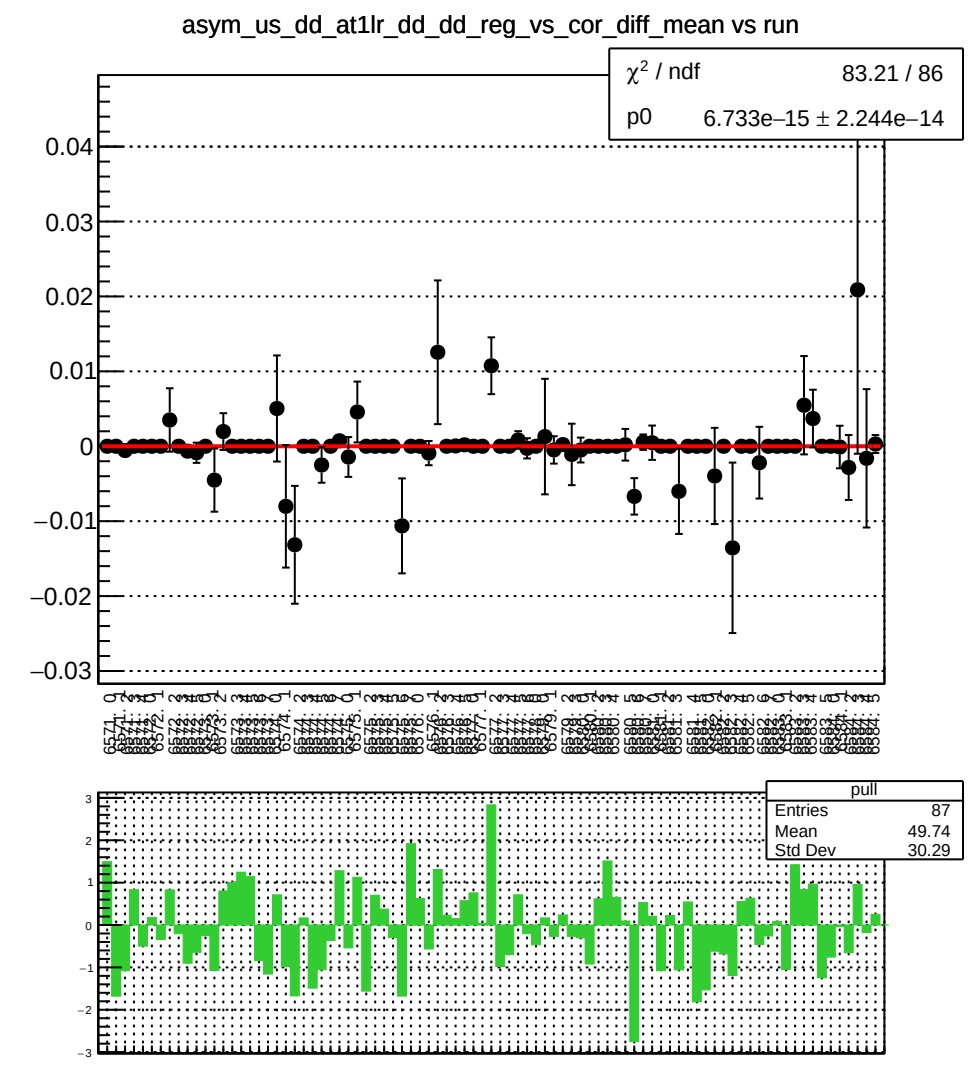


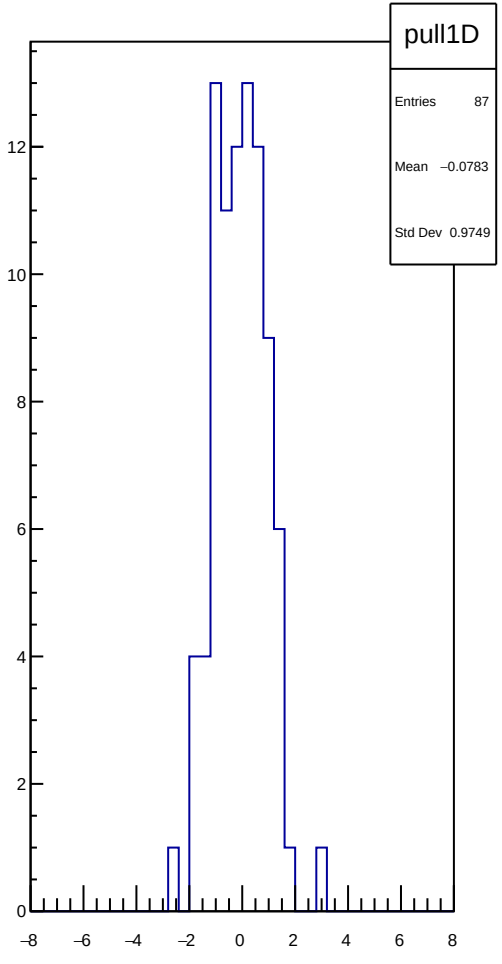

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.688e+04 / 86
p0 806 ± 0.6237
1100
1000
900
800
700

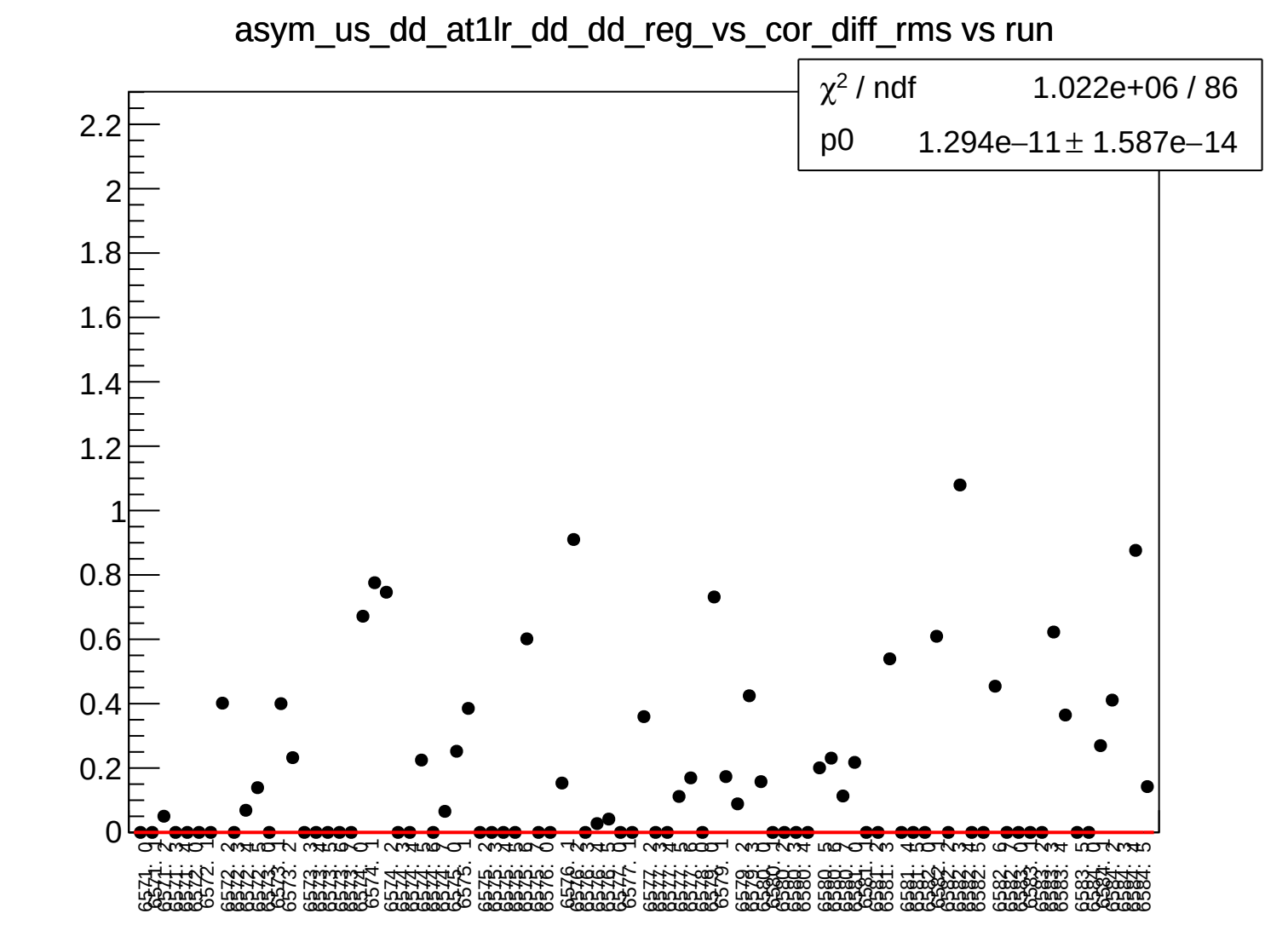

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 78.71 / 86
p0 3067 ± 2079
pull
Entries 87
Mean 214.1
Std Dev 0

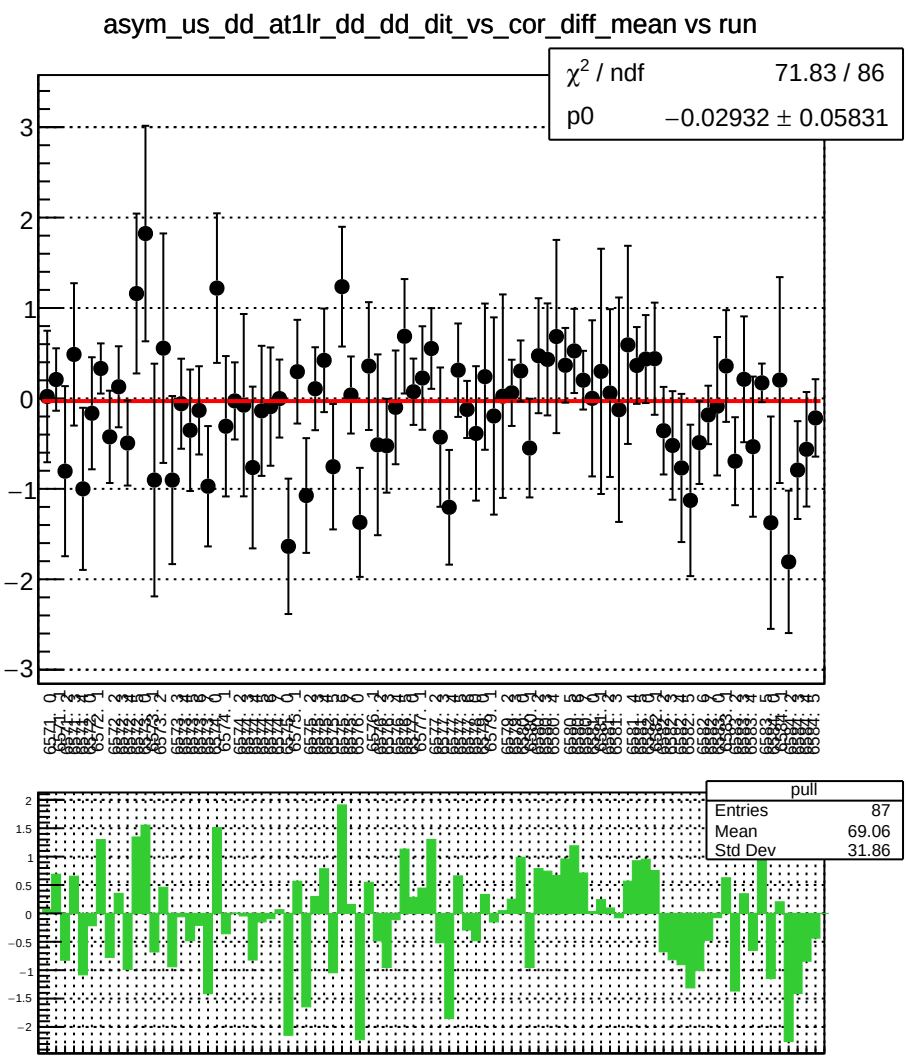

pull1D
Entries 87
Mean 0.01206
Std Dev 0.9511

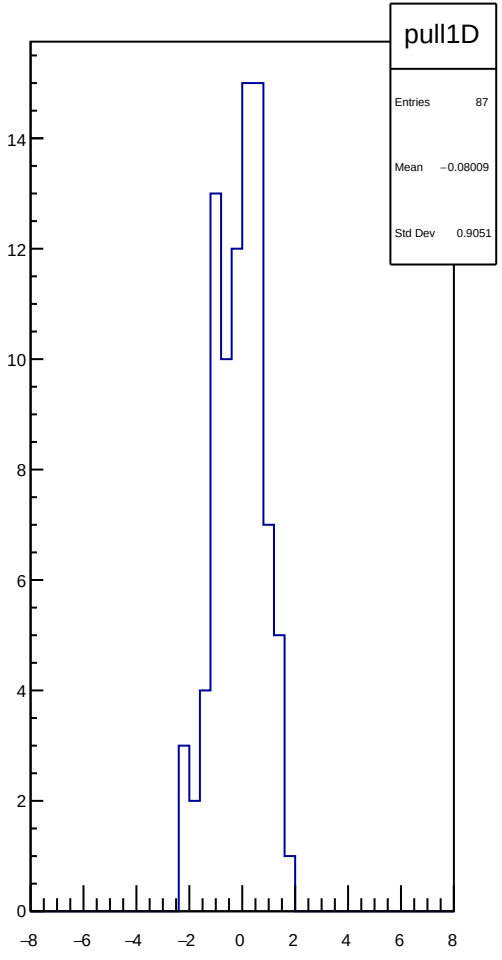

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 622.2 / 86
p0 1909 ± 1.47
2050
2000
1950
1900
1850

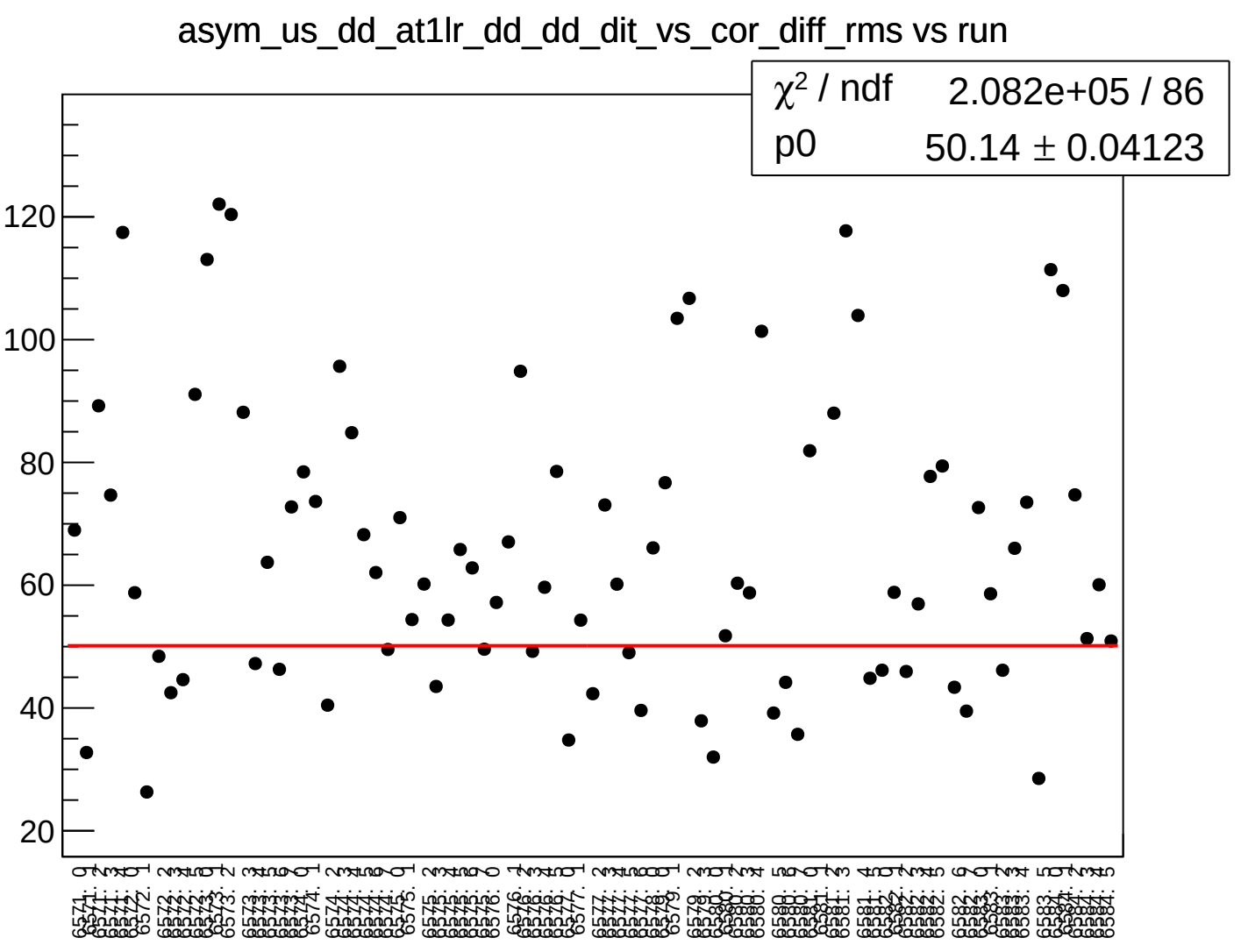

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.21 / 86
p0 6.733e−15 ± 2.244e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 49.74
Std Dev 30.29
3
2
1
0
−1
−2
−3

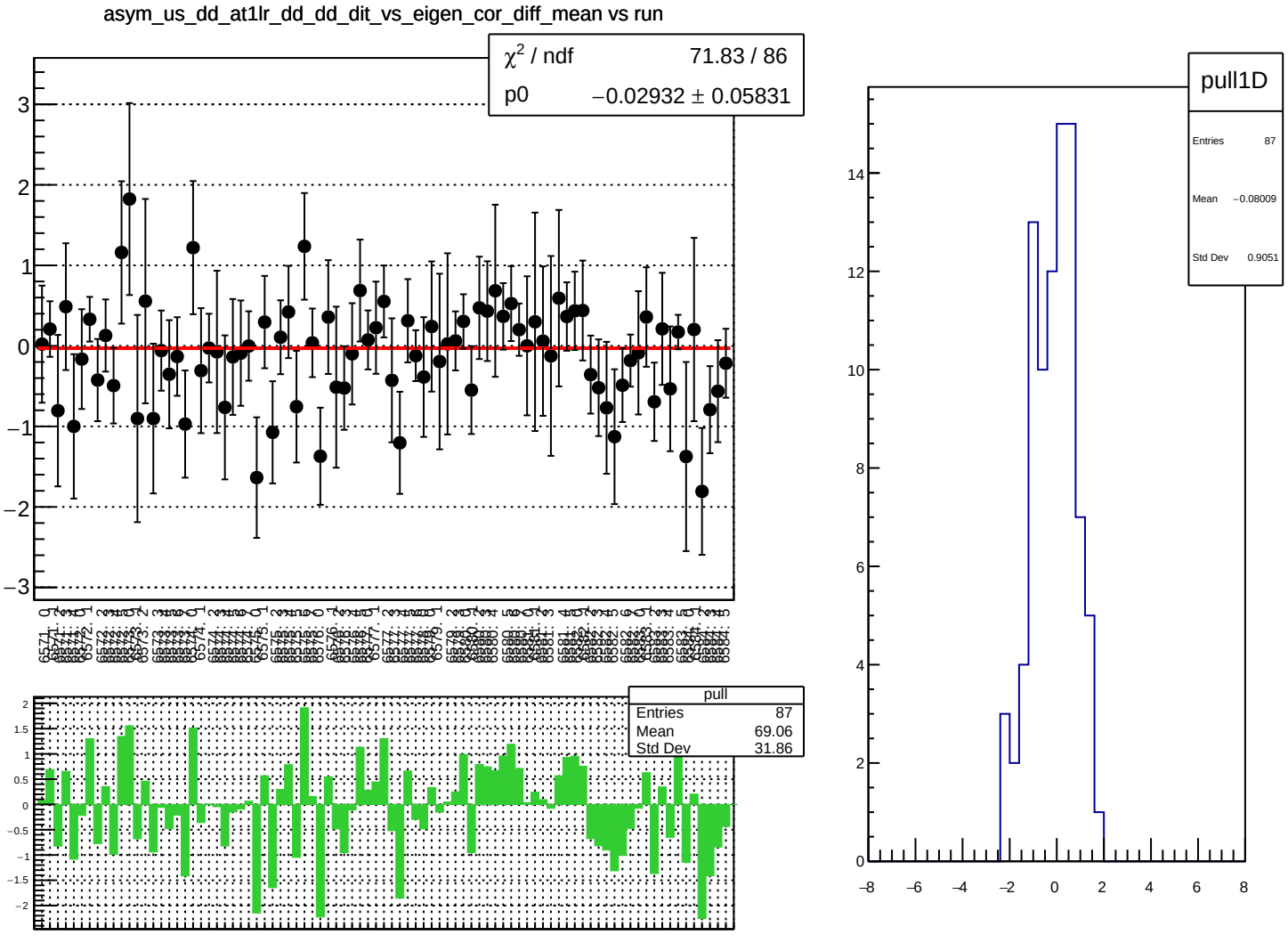

pull1D
Entries 87
Mean −0.0783
Std Dev 0.9749
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

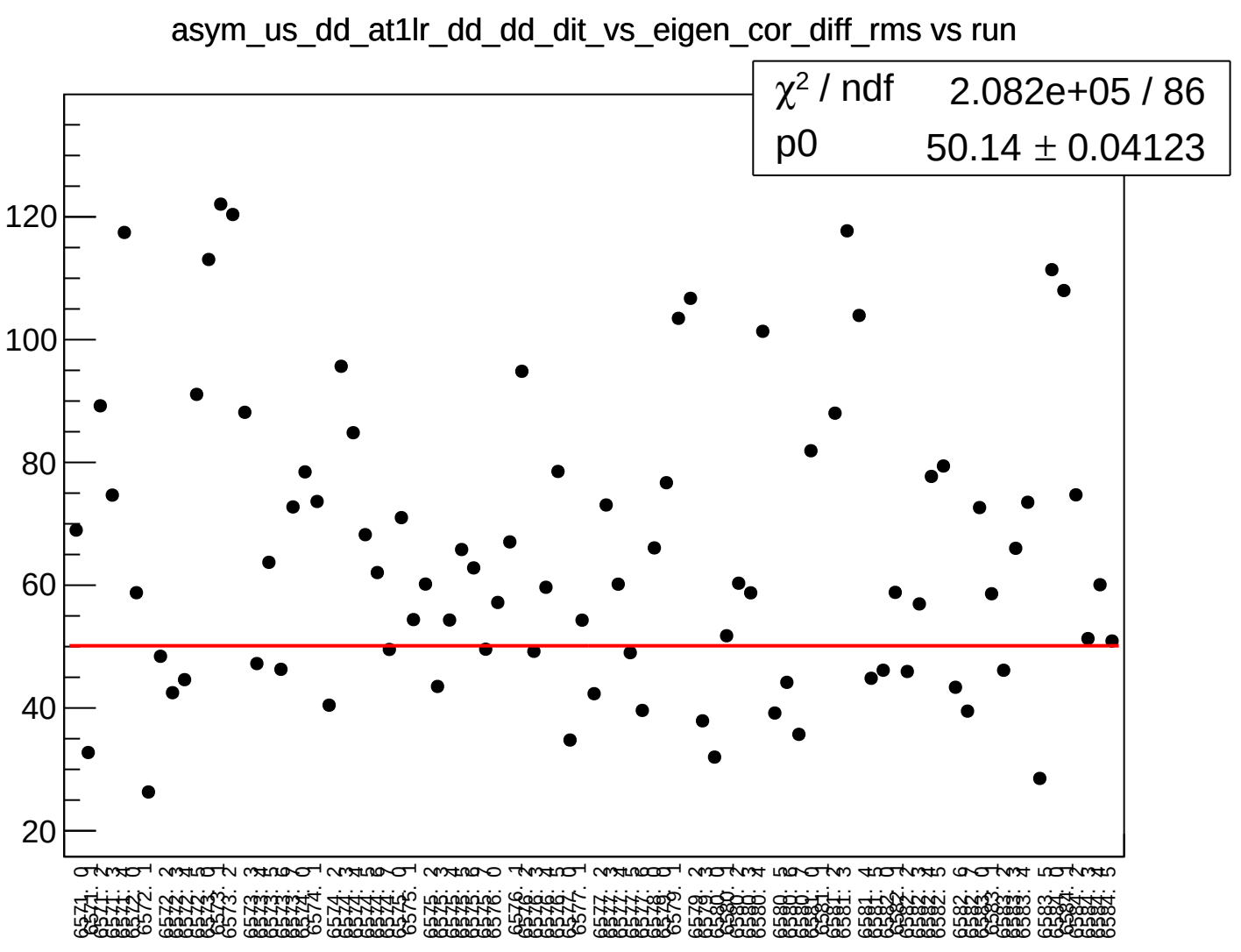

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 86
p0 1.294e−11 ± 1.587e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

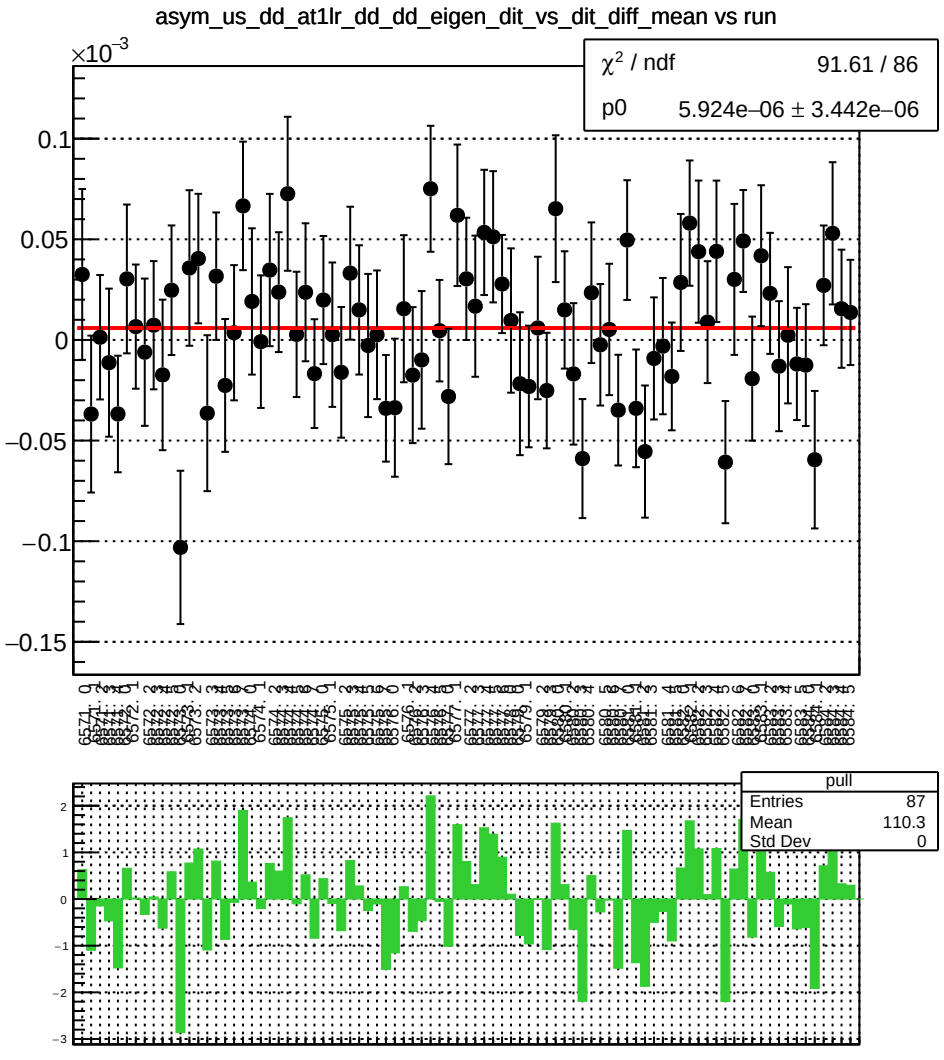

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.83 / 86
p0 −0.02932 ± 0.05831
pull
Entries 87
Mean 69.06
Std Dev 31.86

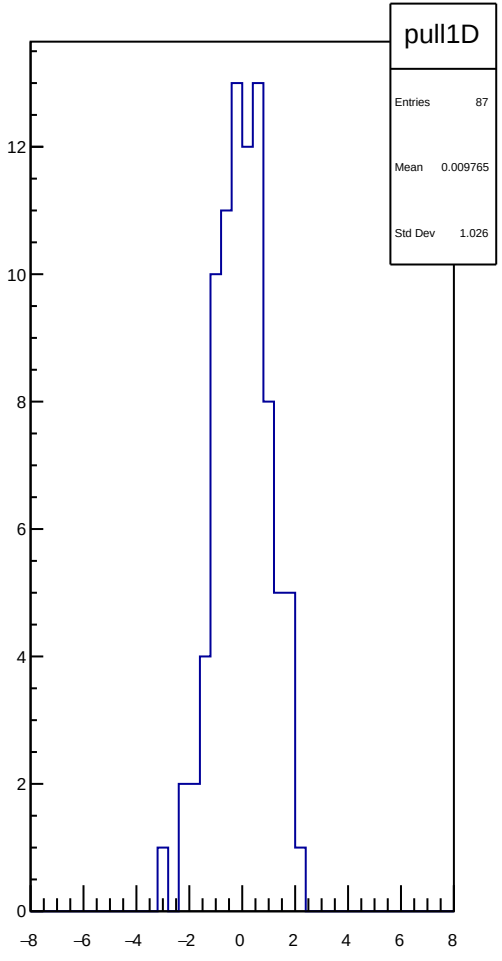

pull1D
Entries 87
Mean −0.08009
Std Dev 0.9051

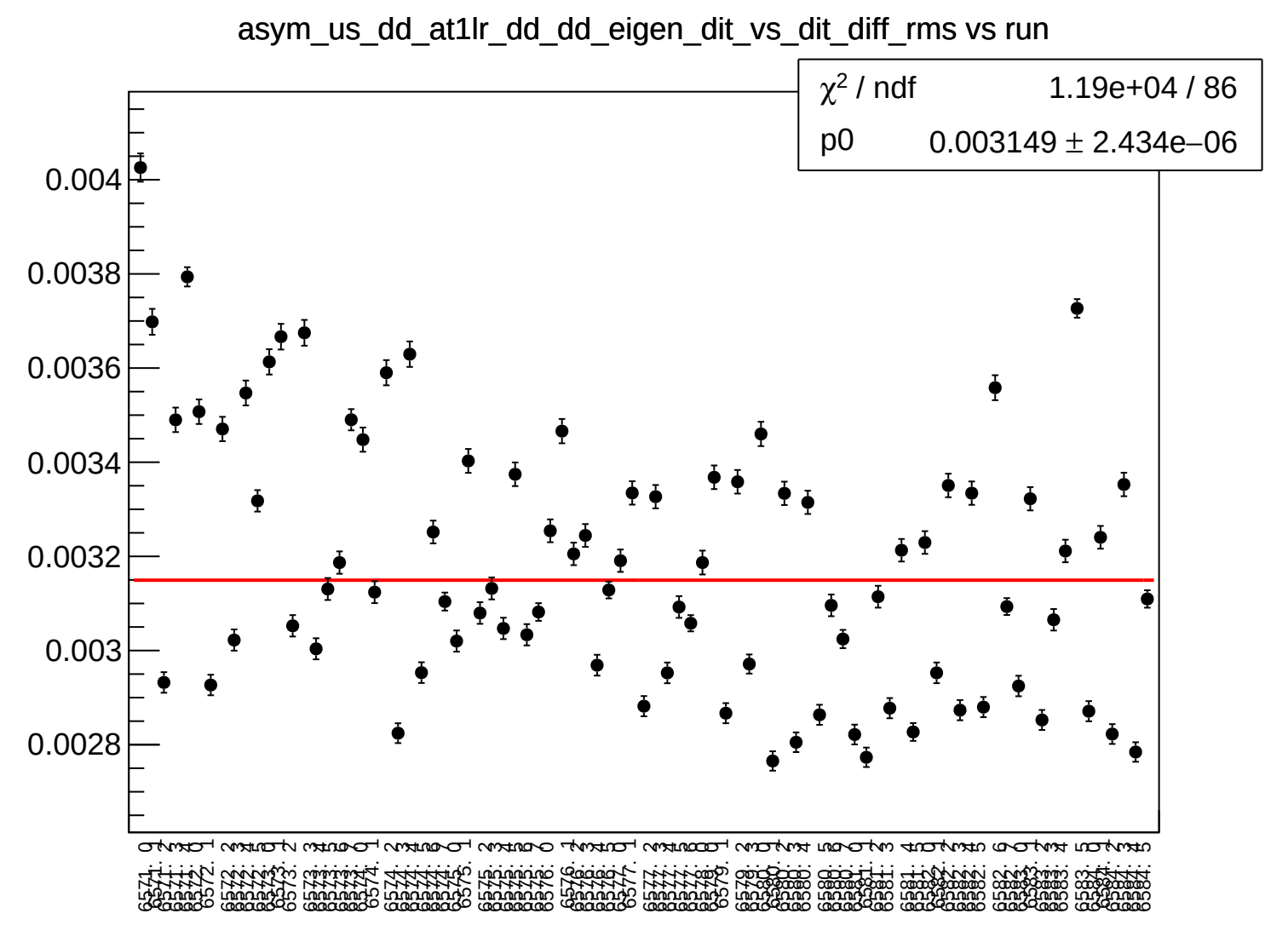

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 86
p0 50.14 ± 0.04123
120
100
80
60
40
20

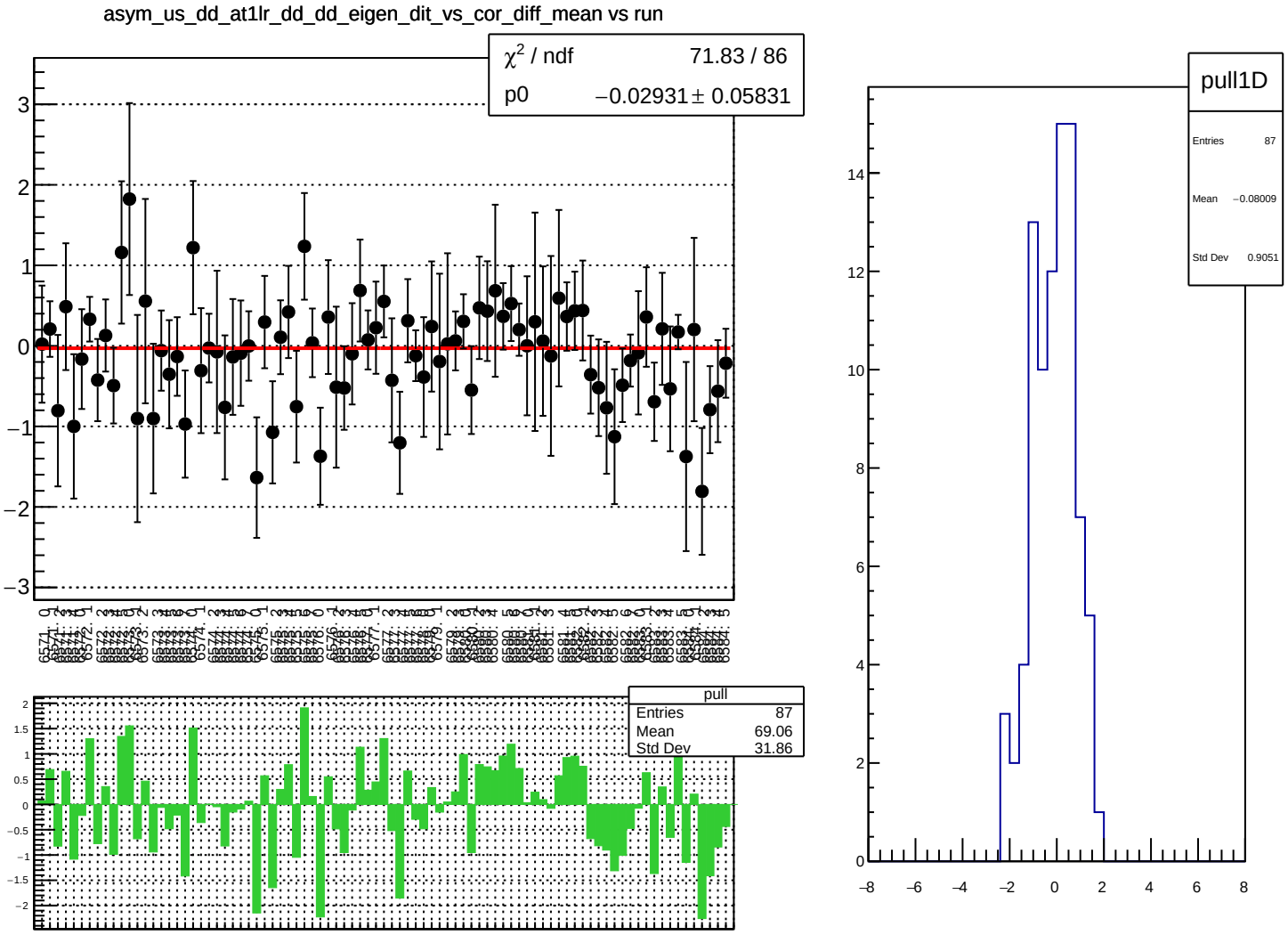

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.83 / 86
p0 −0.02932 ± 0.05831
pull
Entries 87
Mean 69.06
Std Dev 31.86
pull1D
Entries 87
Mean −0.08009
Std Dev 0.9051

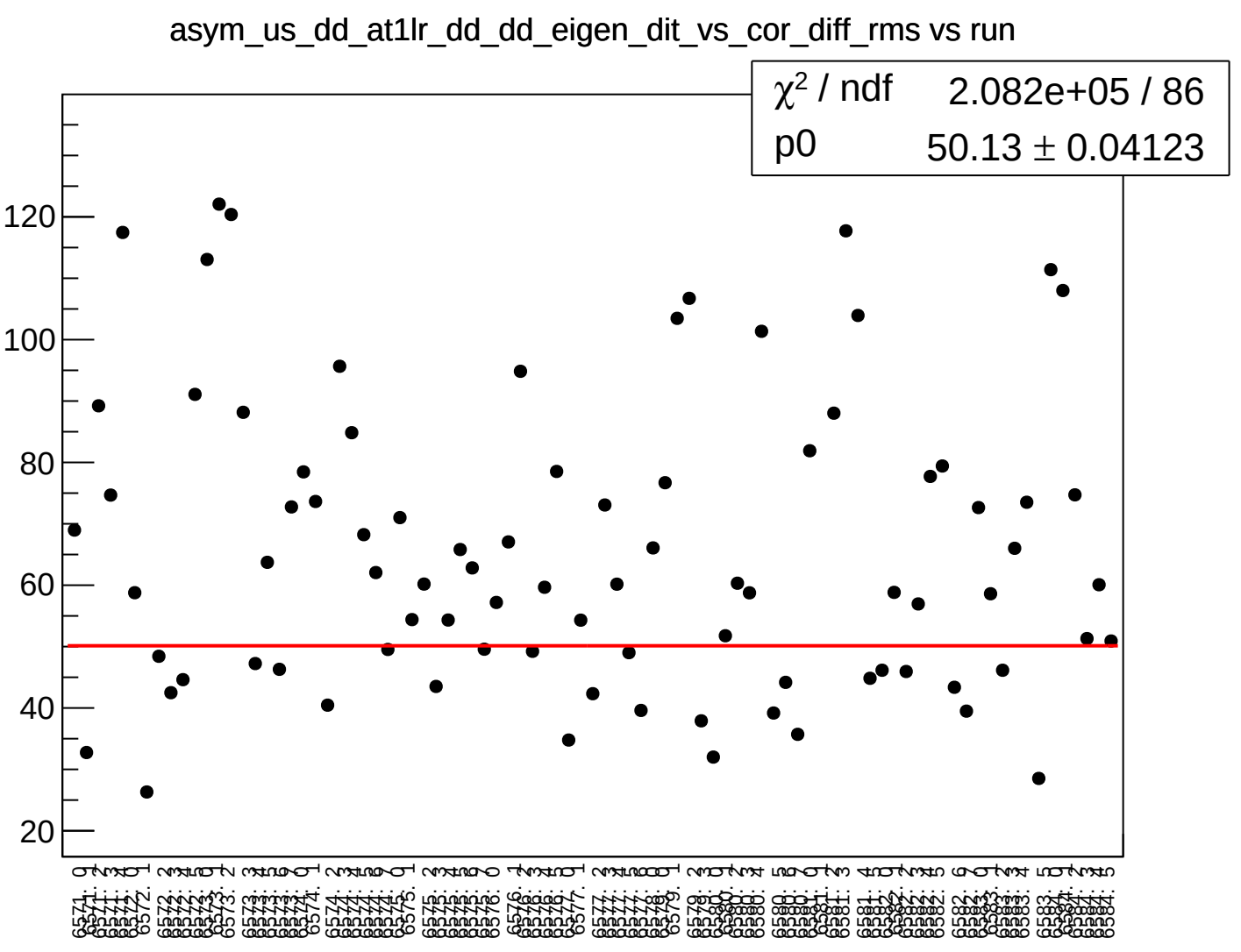

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 86
p0 50.14 ± 0.04123
120
100
80
60
40
20

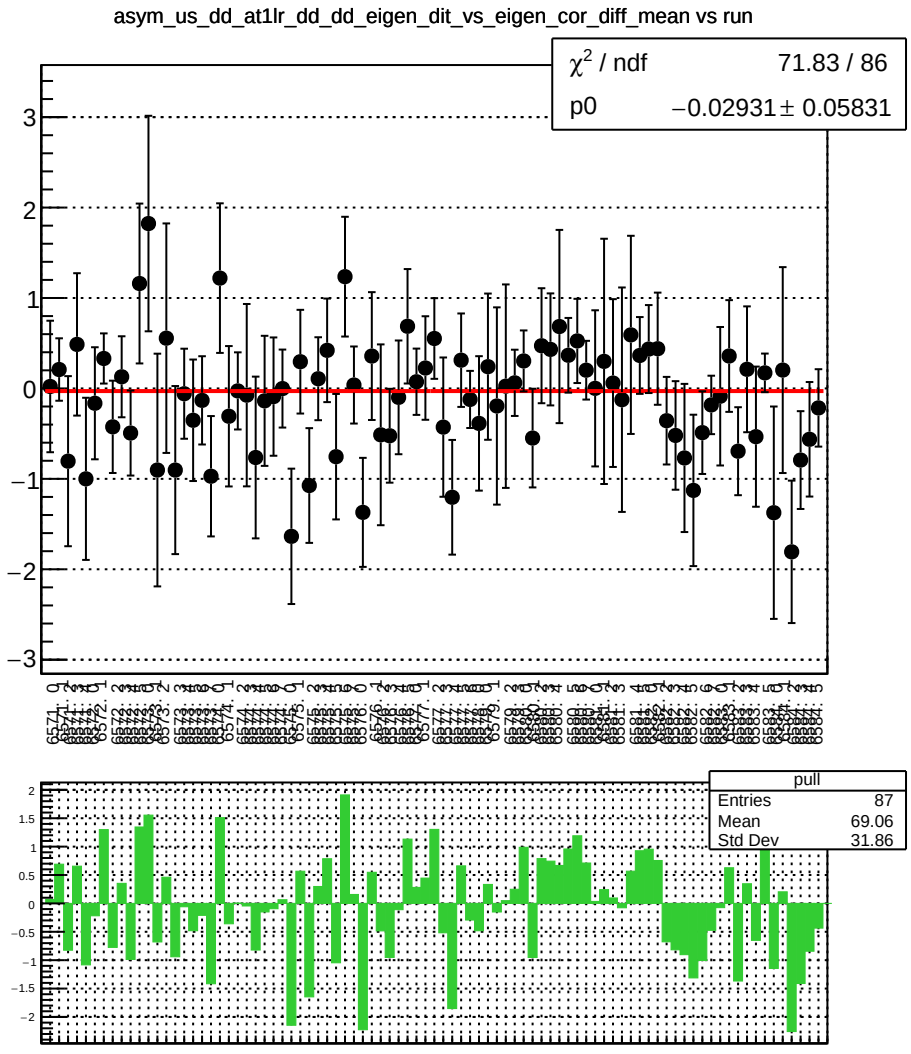

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.61 / 86
p0 5.924e−06 ± 3.442e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean 110.3
Std Dev 0
2
1
0
−1
−2
−3

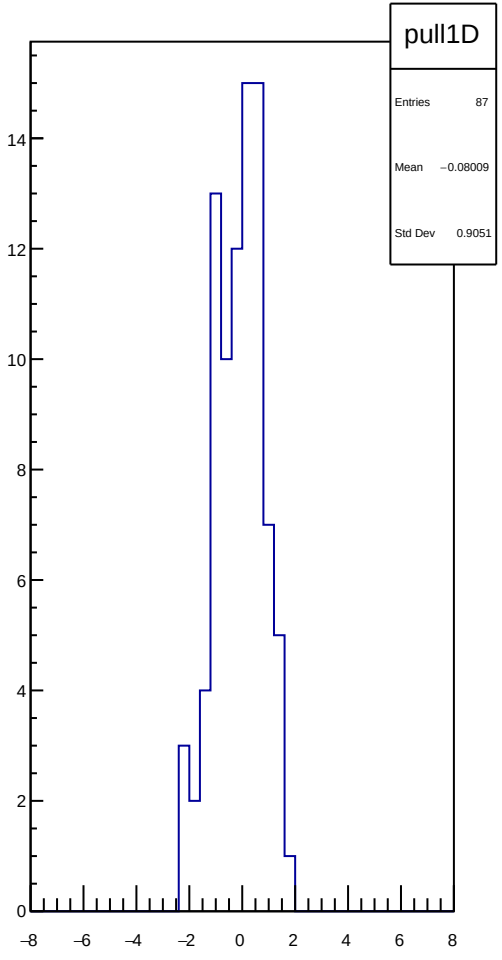

pull1D
Entries 87
Mean 0.009765
Std Dev 1.026
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

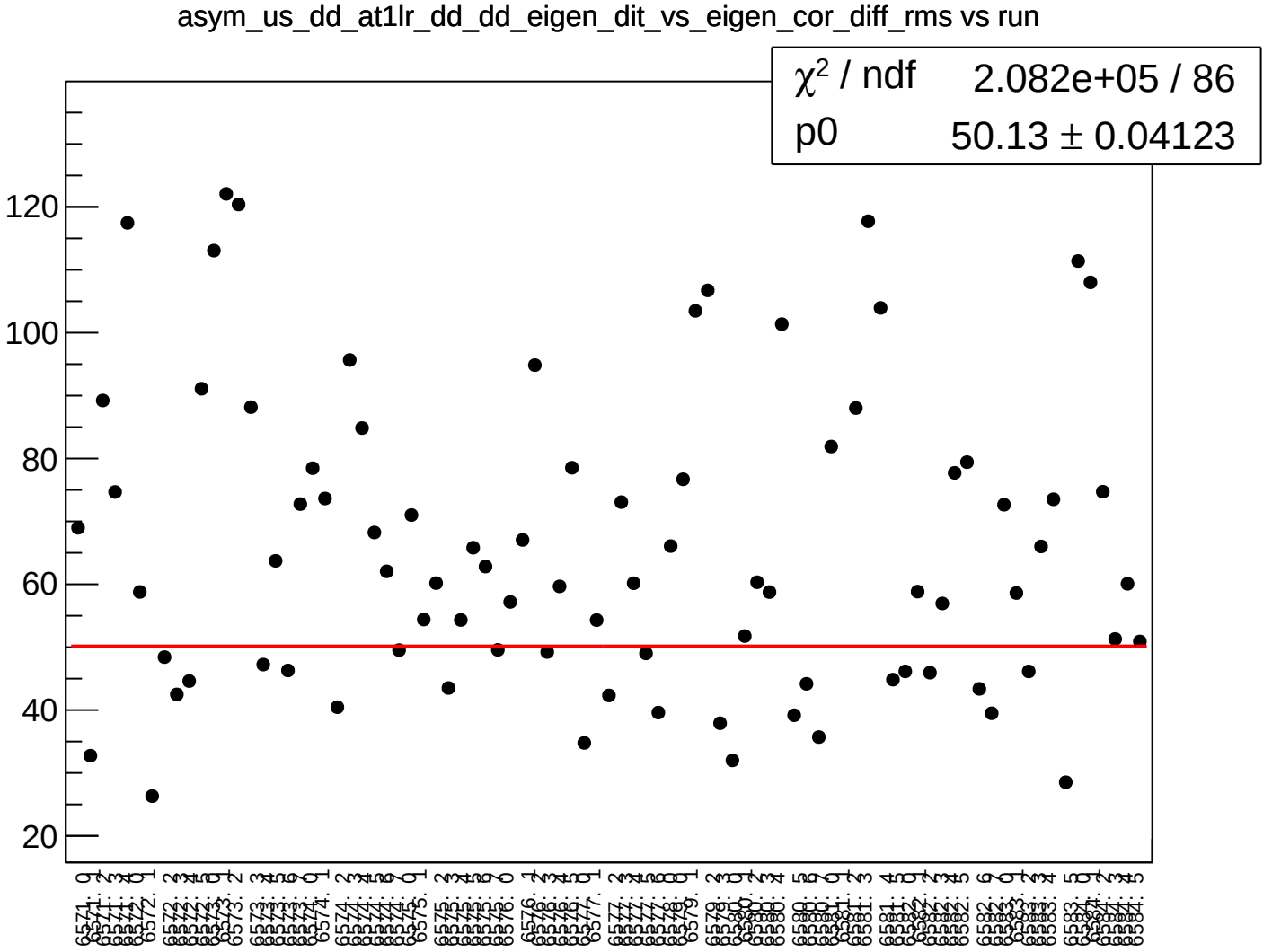

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.19e+04 / 86
p0 0.003149 ± 2.434e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

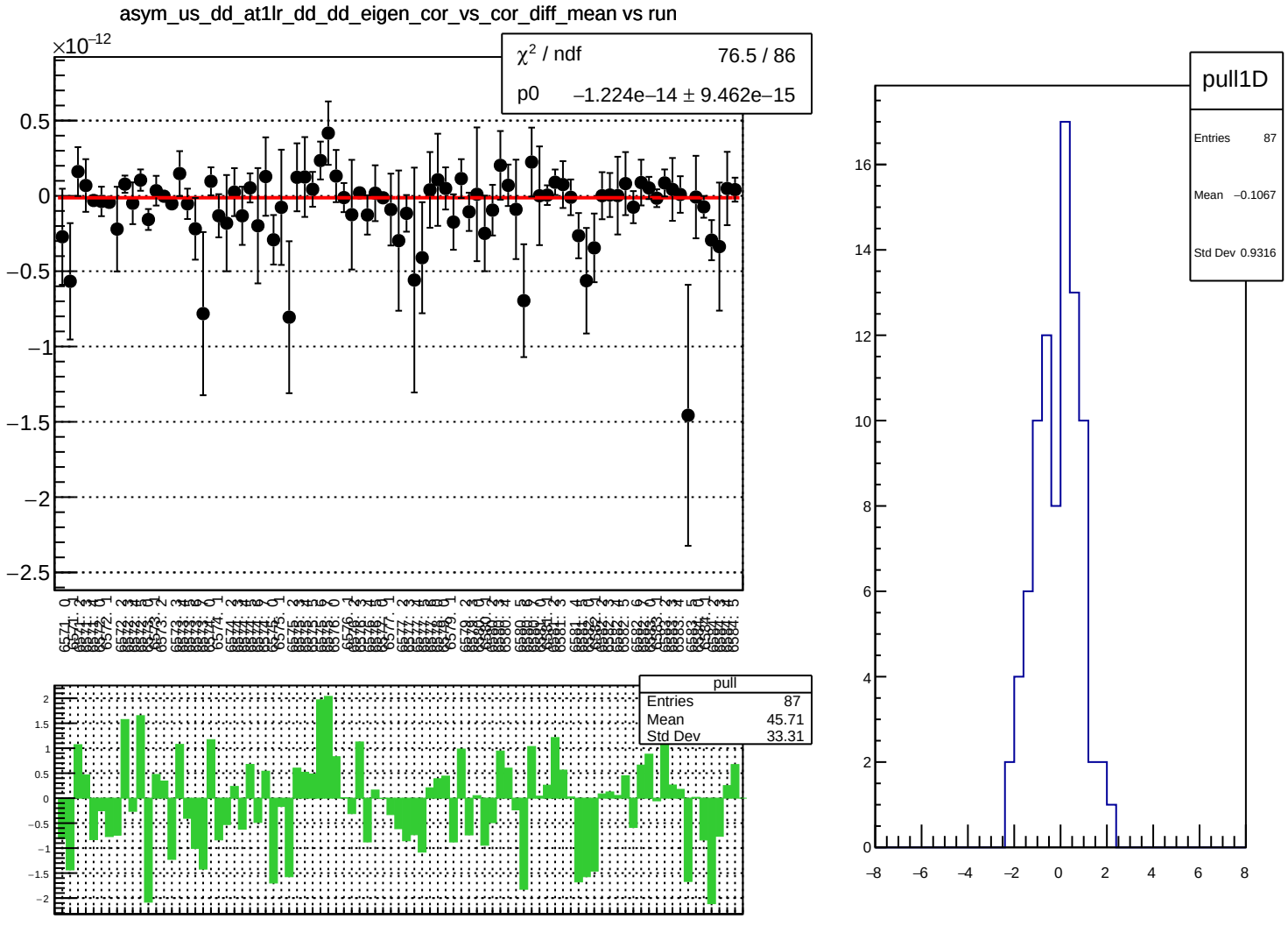

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.83 / 86
p0 −0.02931 ± 0.05831
pull
Entries 87
Mean 69.06
Std Dev 31.86
pull1D
Entries 87
Mean −0.08009
Std Dev 0.9051

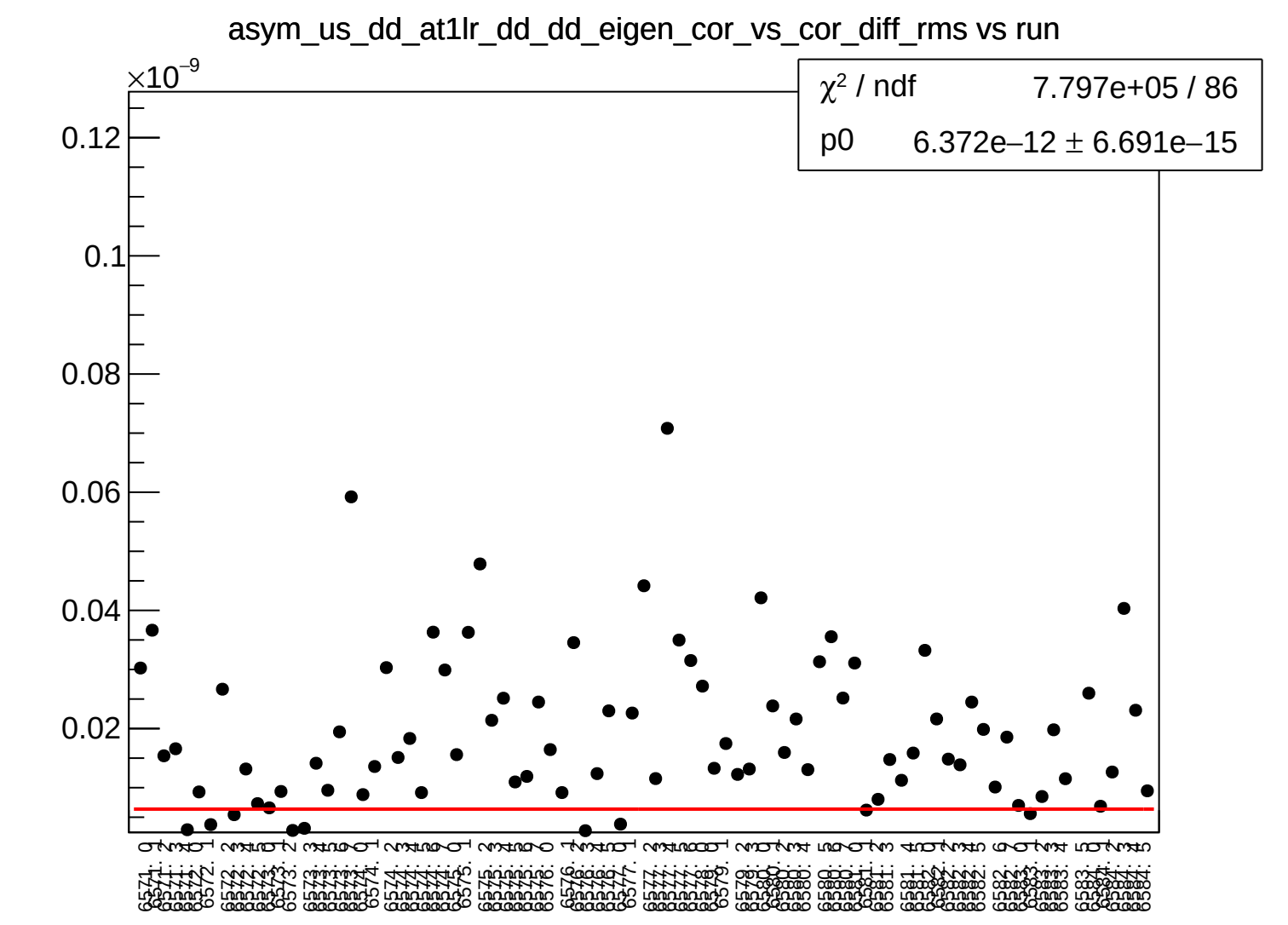

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 86
p0 50.13 ± 0.04123
120
100
80
60
40
20

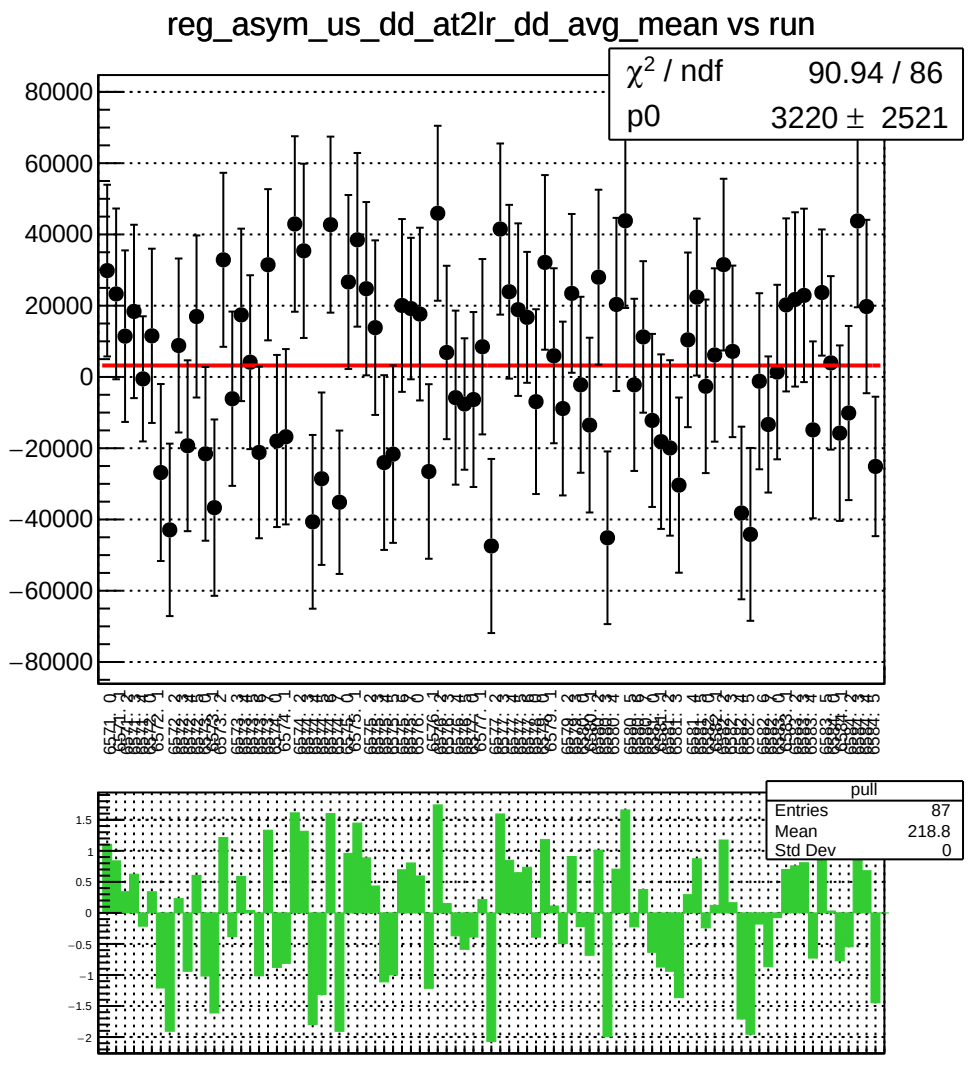

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.83 / 86
p0 −0.02931 ± 0.05831
pull
Entries 87
Mean 69.06
Std Dev 31.86

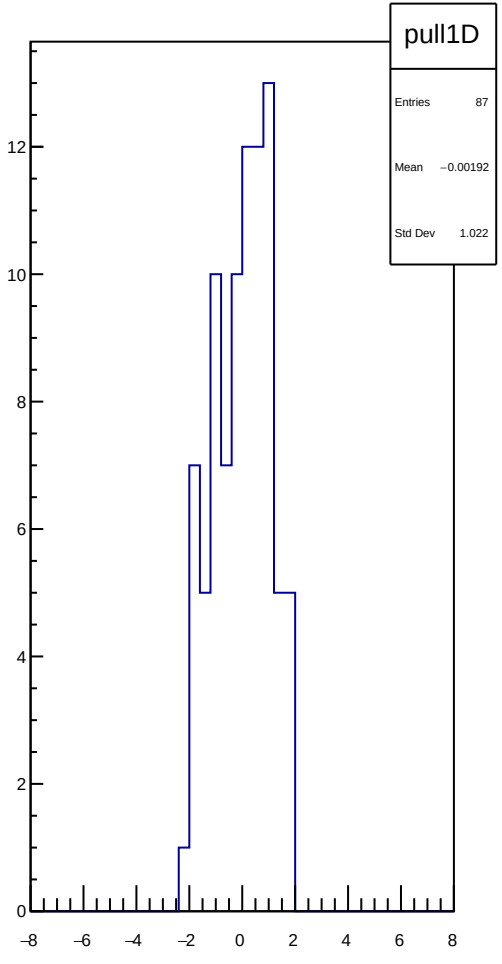

pull1D
Entries 87
Mean −0.08009
Std Dev 0.9051

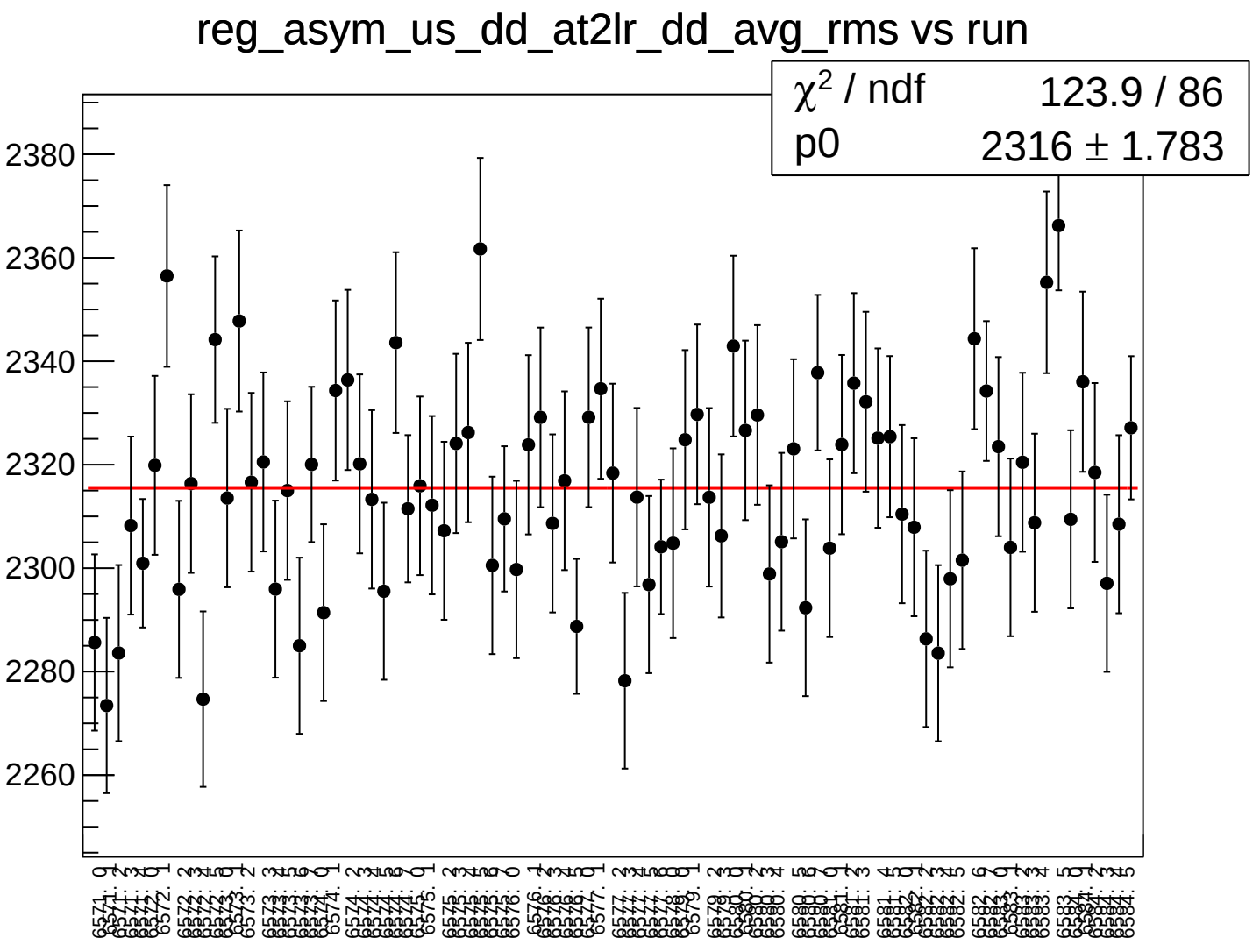

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 86
p0 50.13 ± 0.04123
120
100
80
60
40
20

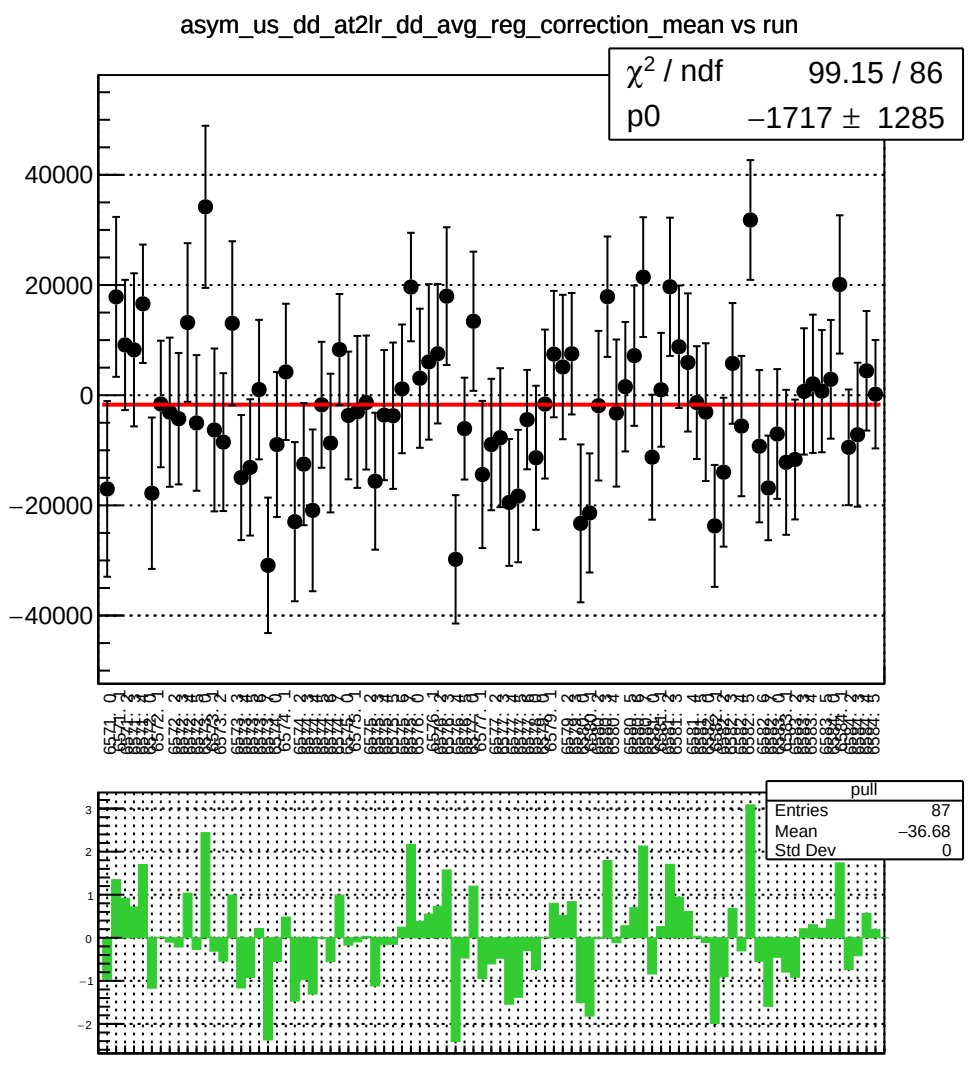

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.5 / 86
p0 −1.224e−14 ± 9.462e−15
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 87
Mean 45.71
Std Dev 33.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.1067
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

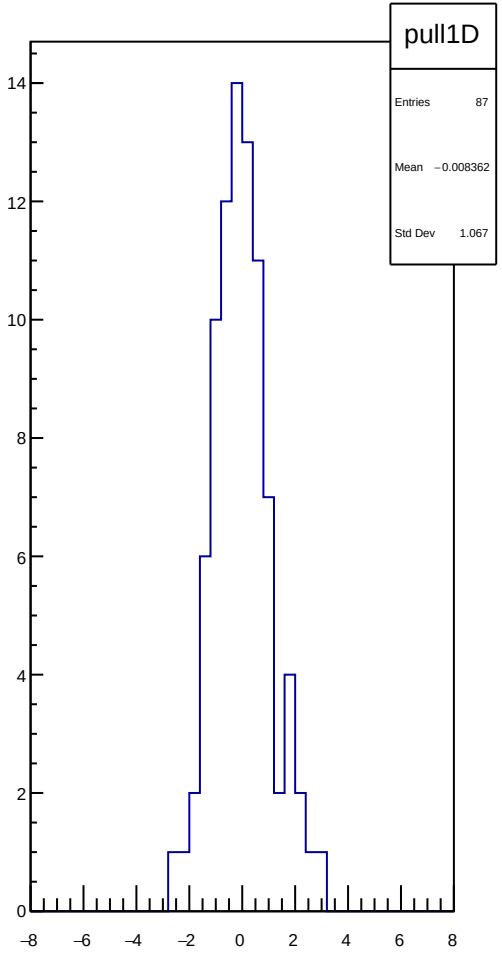

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.797e+05 / 86
p0 6.372e−12 ± 6.691e−15
0.12
0.1
0.08
0.06
0.04
0.02

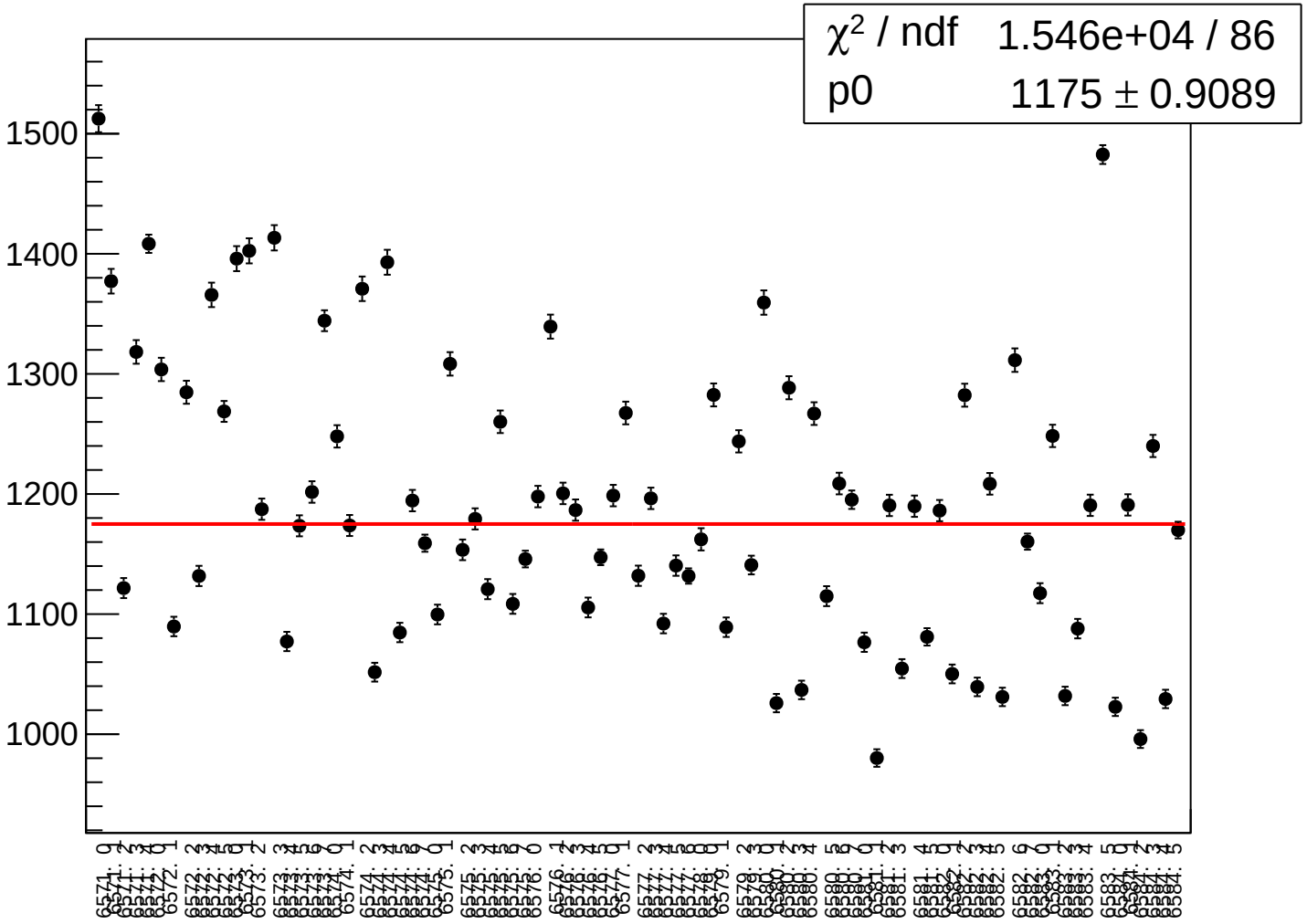

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.94 / 86
p0 3220 ± 2521
pull
Entries 87
Mean 218.8
Std Dev 0

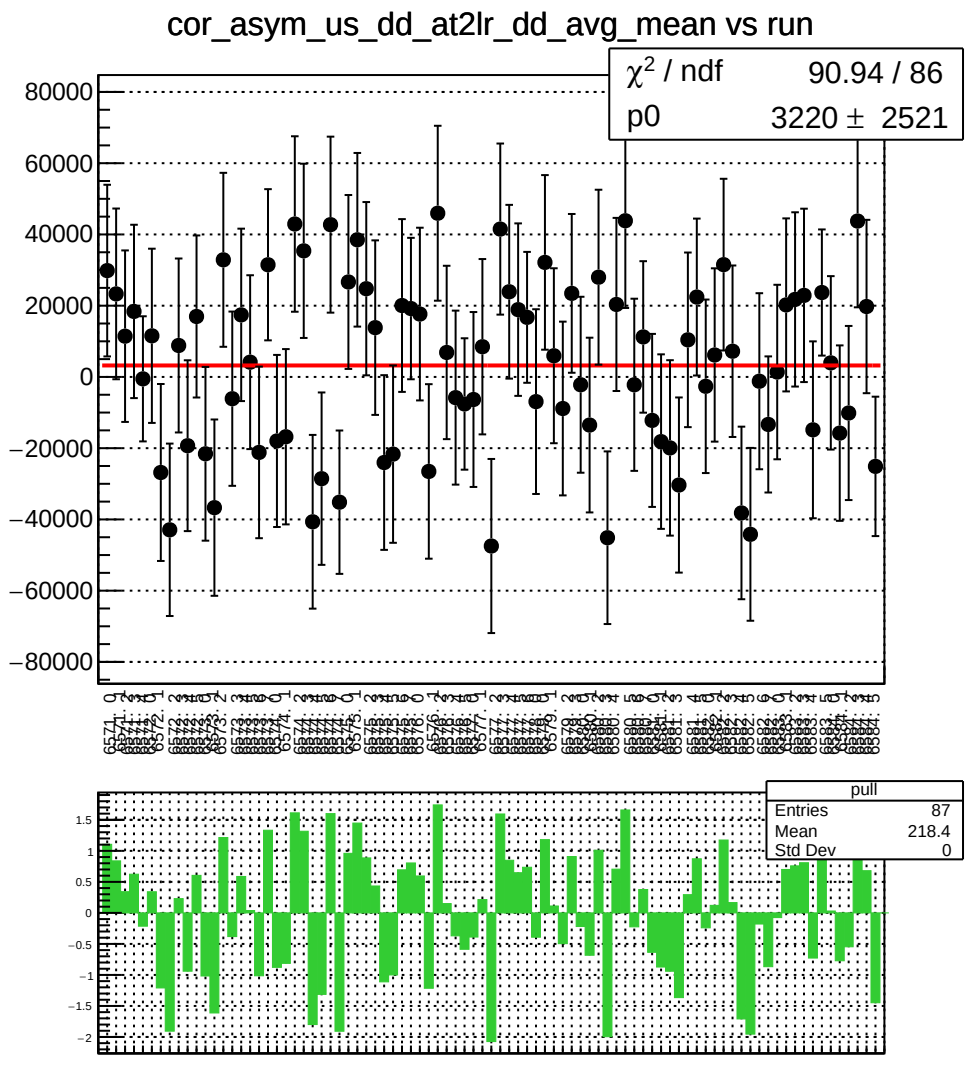

pull1D
Entries 87
Mean −0.00192
Std Dev 1.022

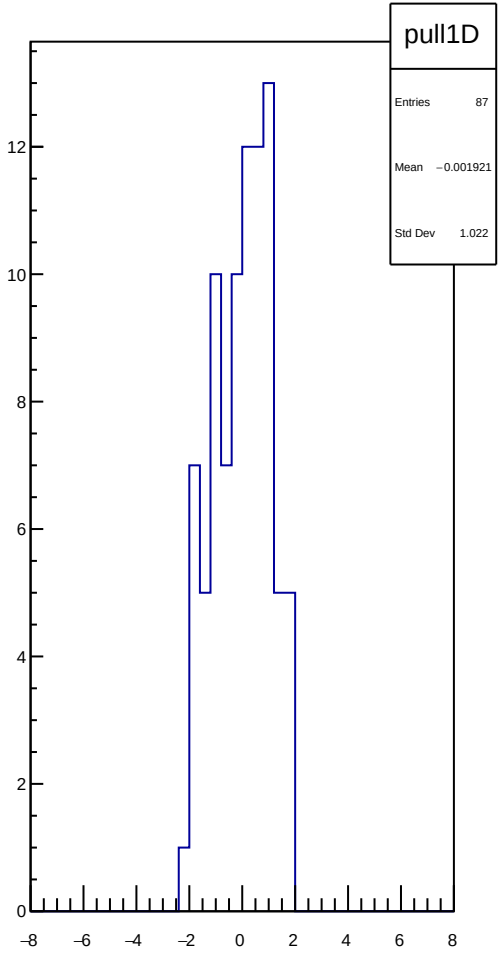

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 123.9 / 86
p0 2316 ± 1.783
2380
2360
2340
2320
2300
2280
2260

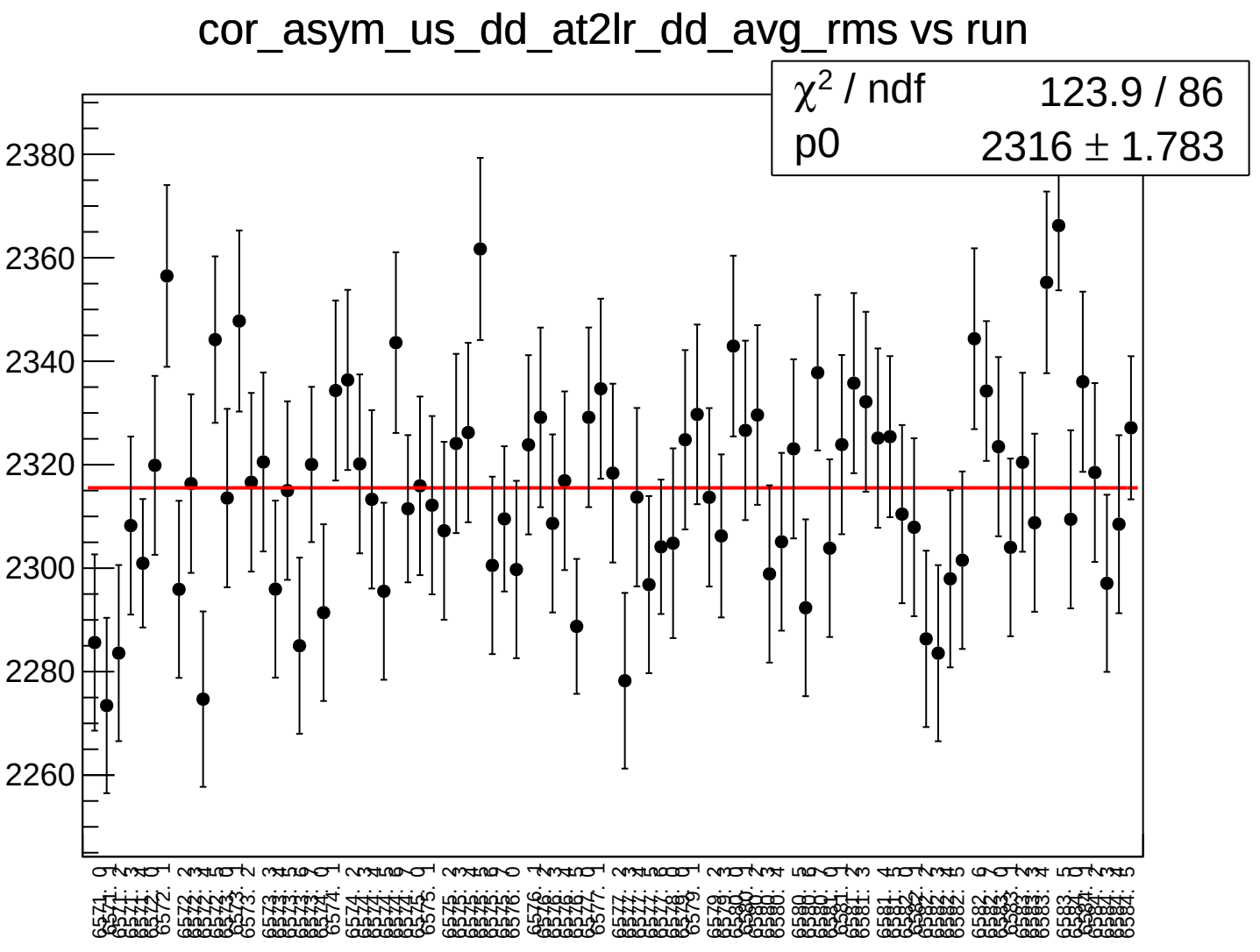

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 99.15 / 86
p0 −1717 ± 1285
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −36.68
Std Dev 0
3
2
1
0
−1
−2

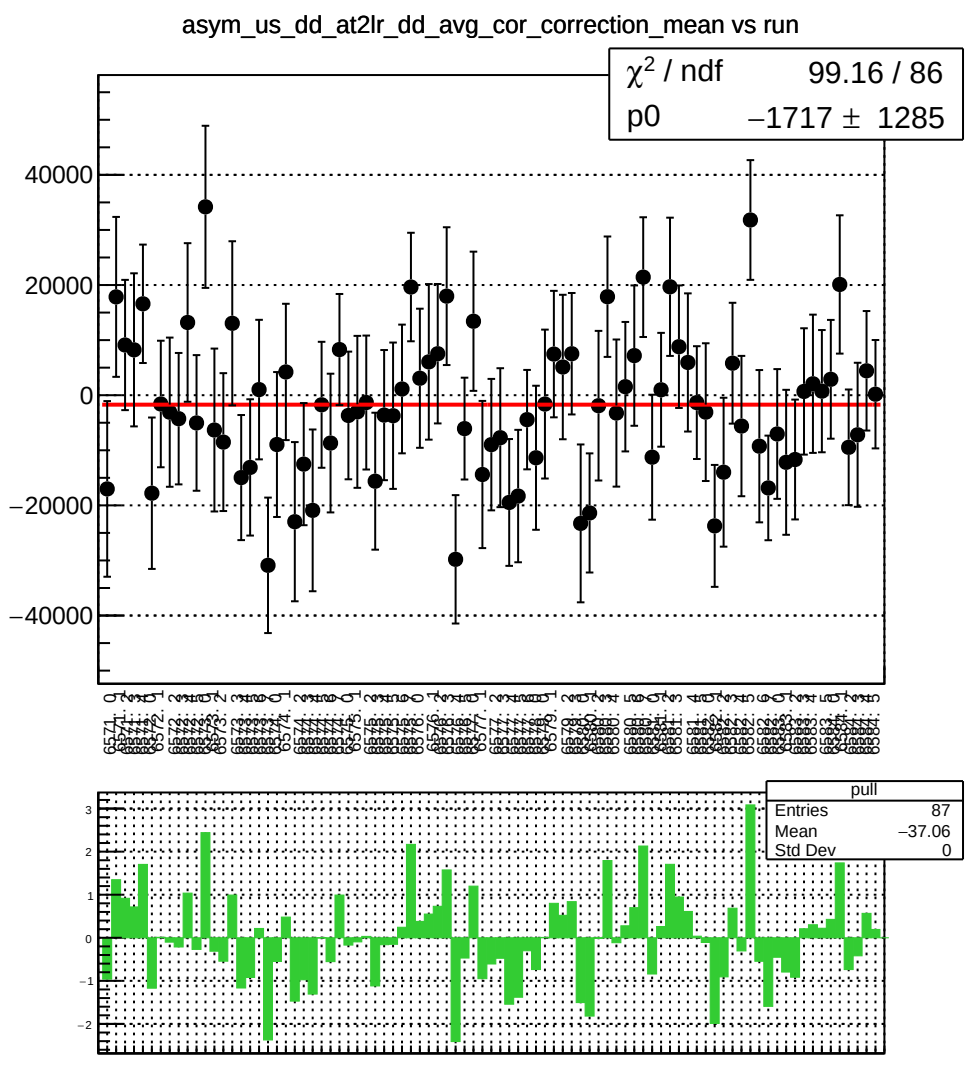

pull1D
Entries 87
Mean −0.008362
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

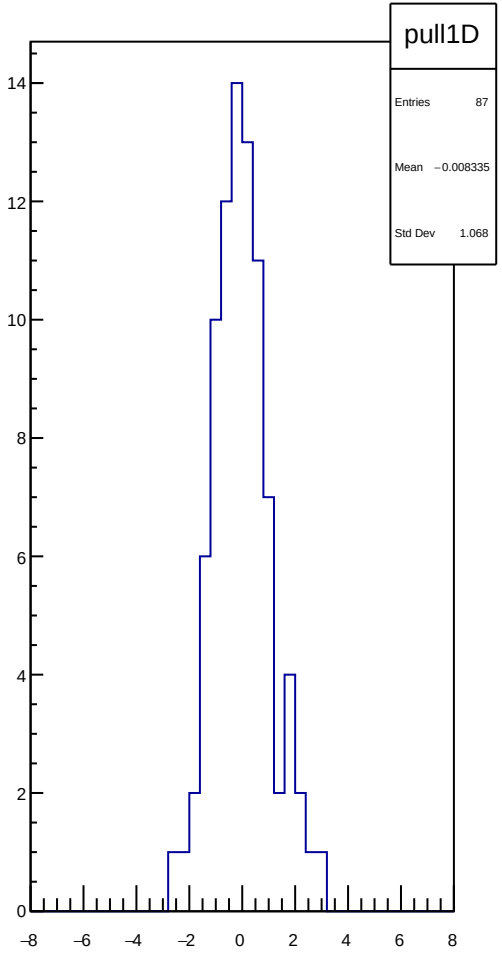

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.546e+04 / 86
p0 1175 ± 0.9089
1500
1400
1300
1200
1100
1000

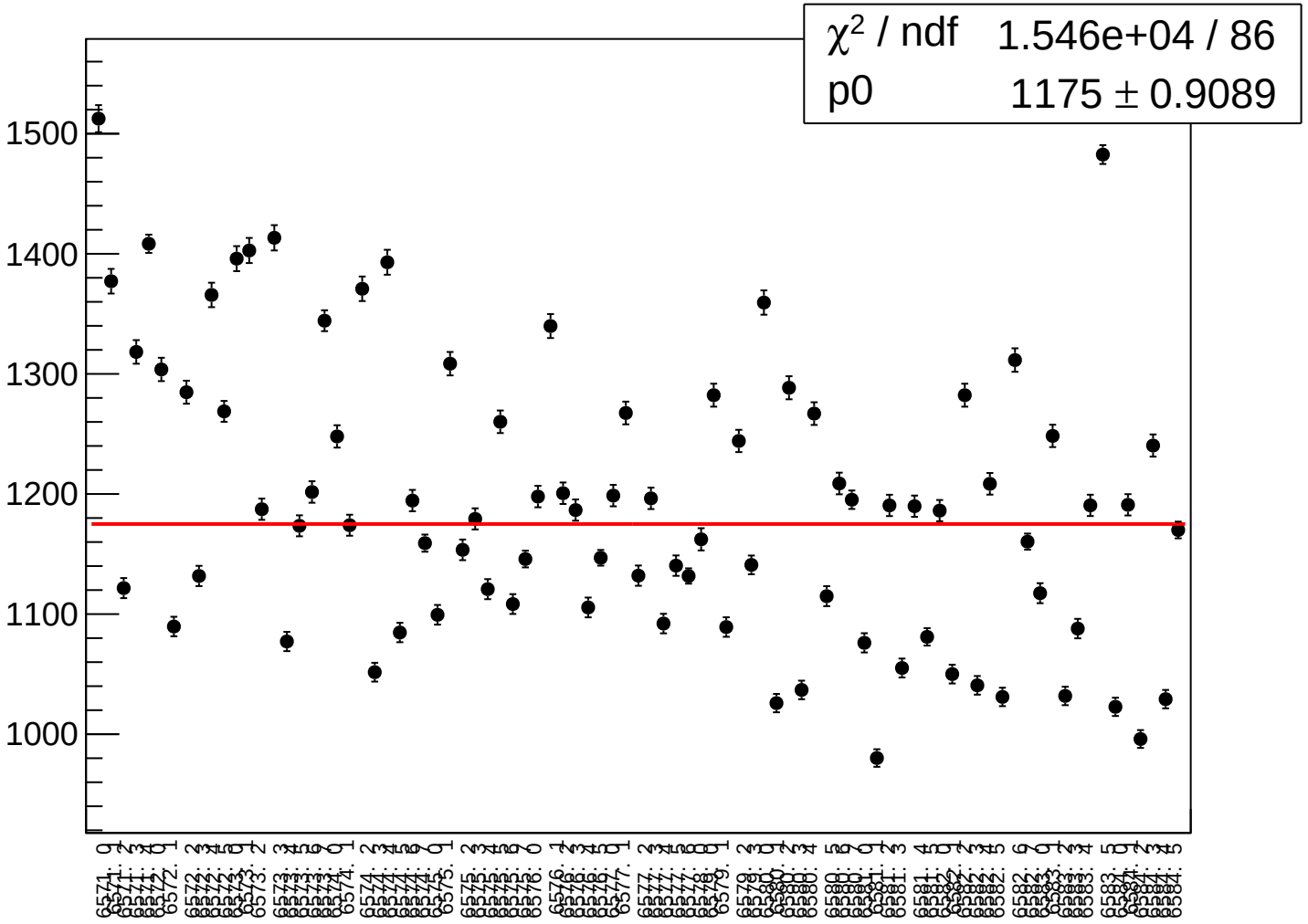

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.94 / 86
p0 3220 ± 2521
pull
Entries 87
Mean 218.4
Std Dev 0

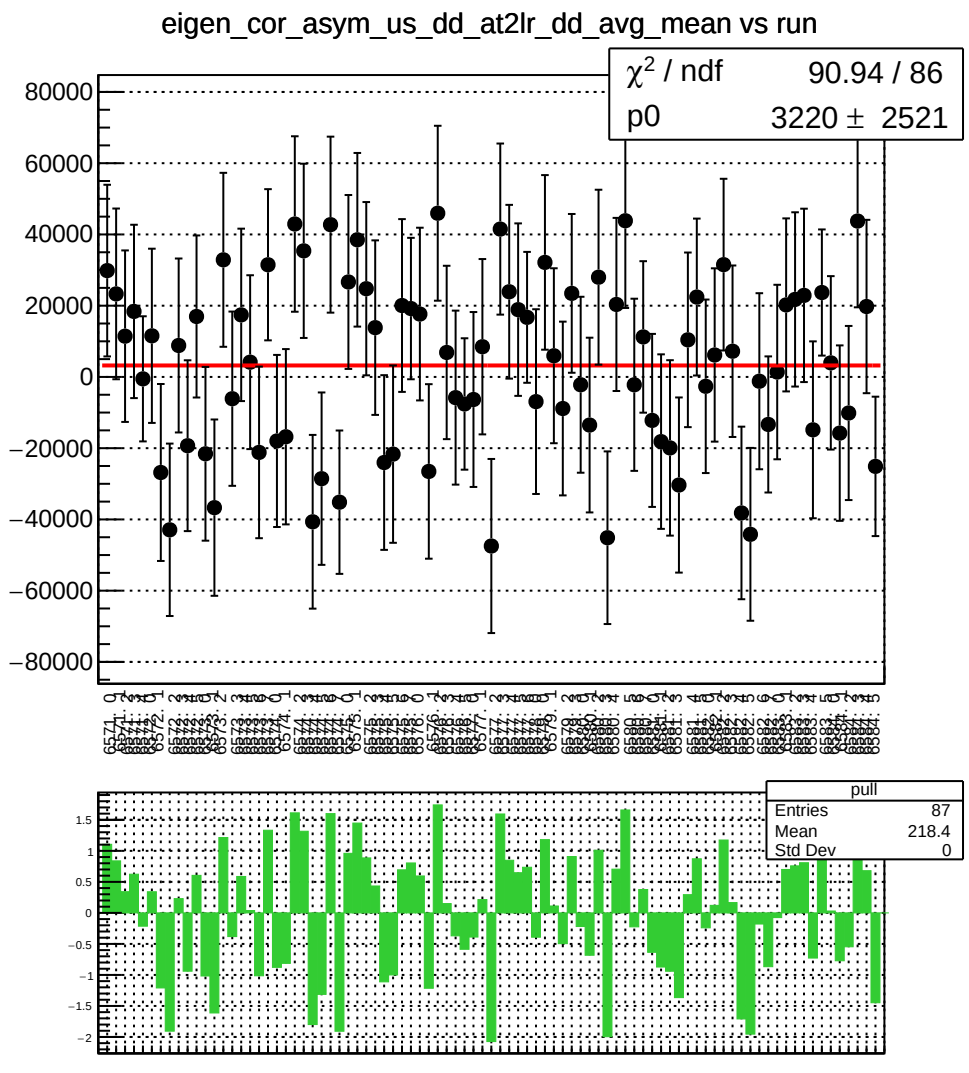

pull1D
Entries 87
Mean −0.001921
Std Dev 1.022

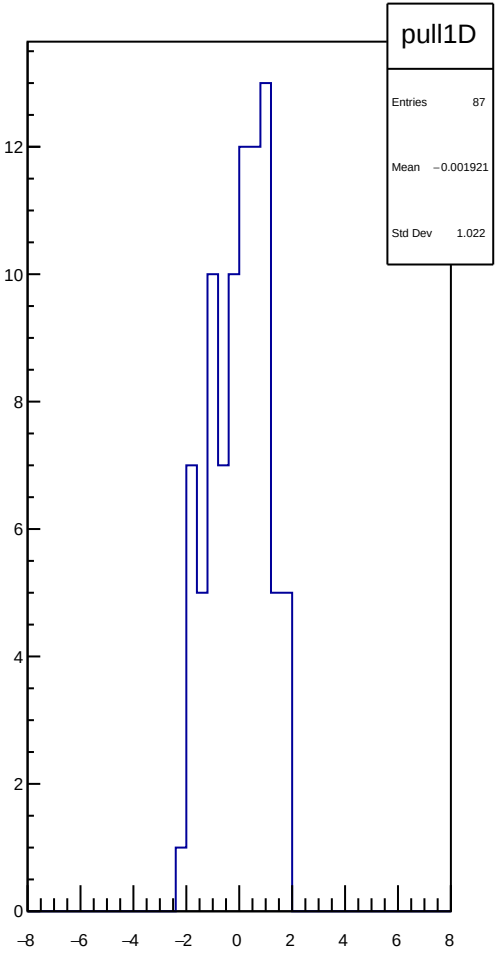

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 123.9 / 86
p0 2316 ± 1.783
2380
2360
2340
2320
2300
2280
2260

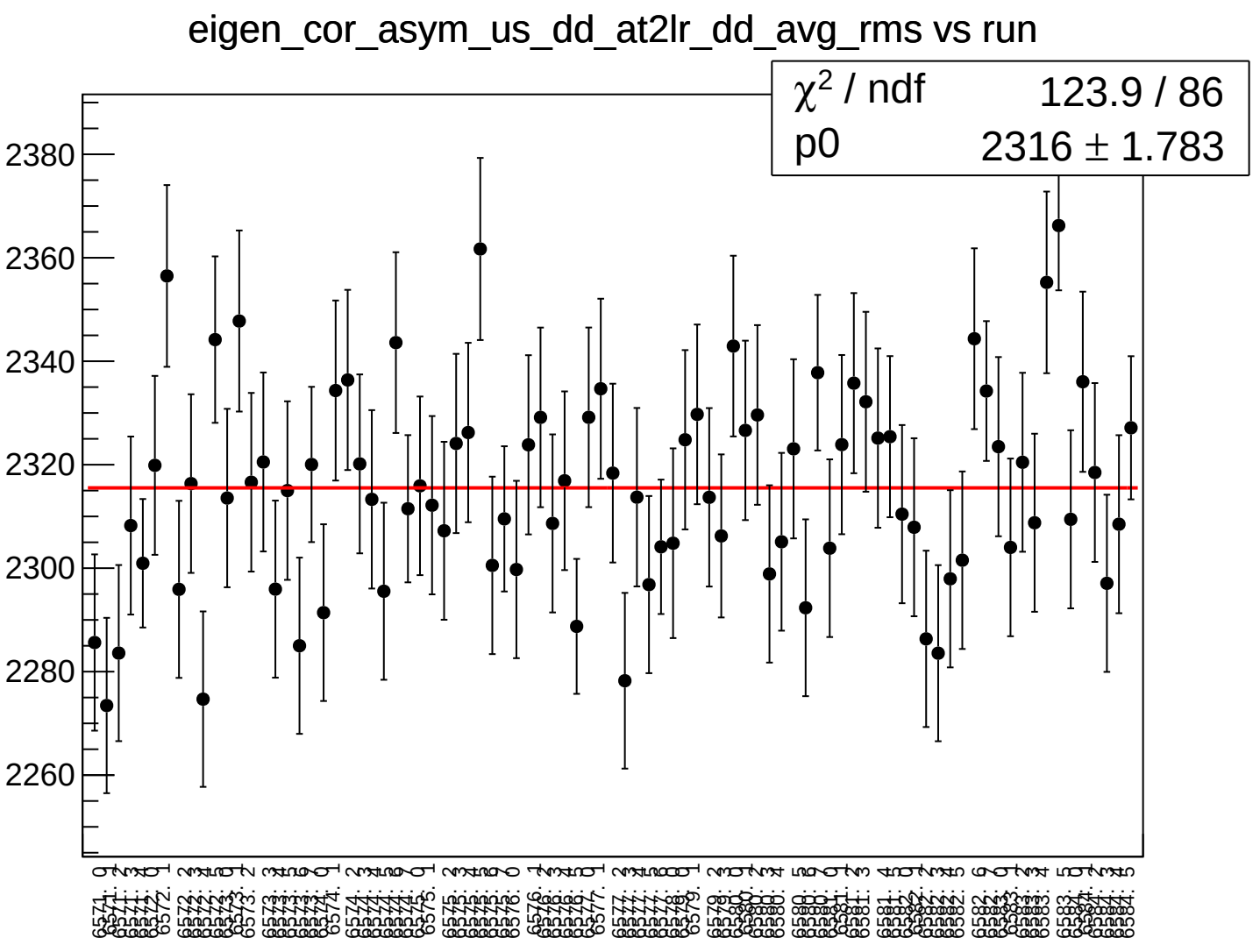

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 99.16 / 86
p0 −1717 ± 1285
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −37.06
Std Dev 0
3
2
1
0
−1
−2

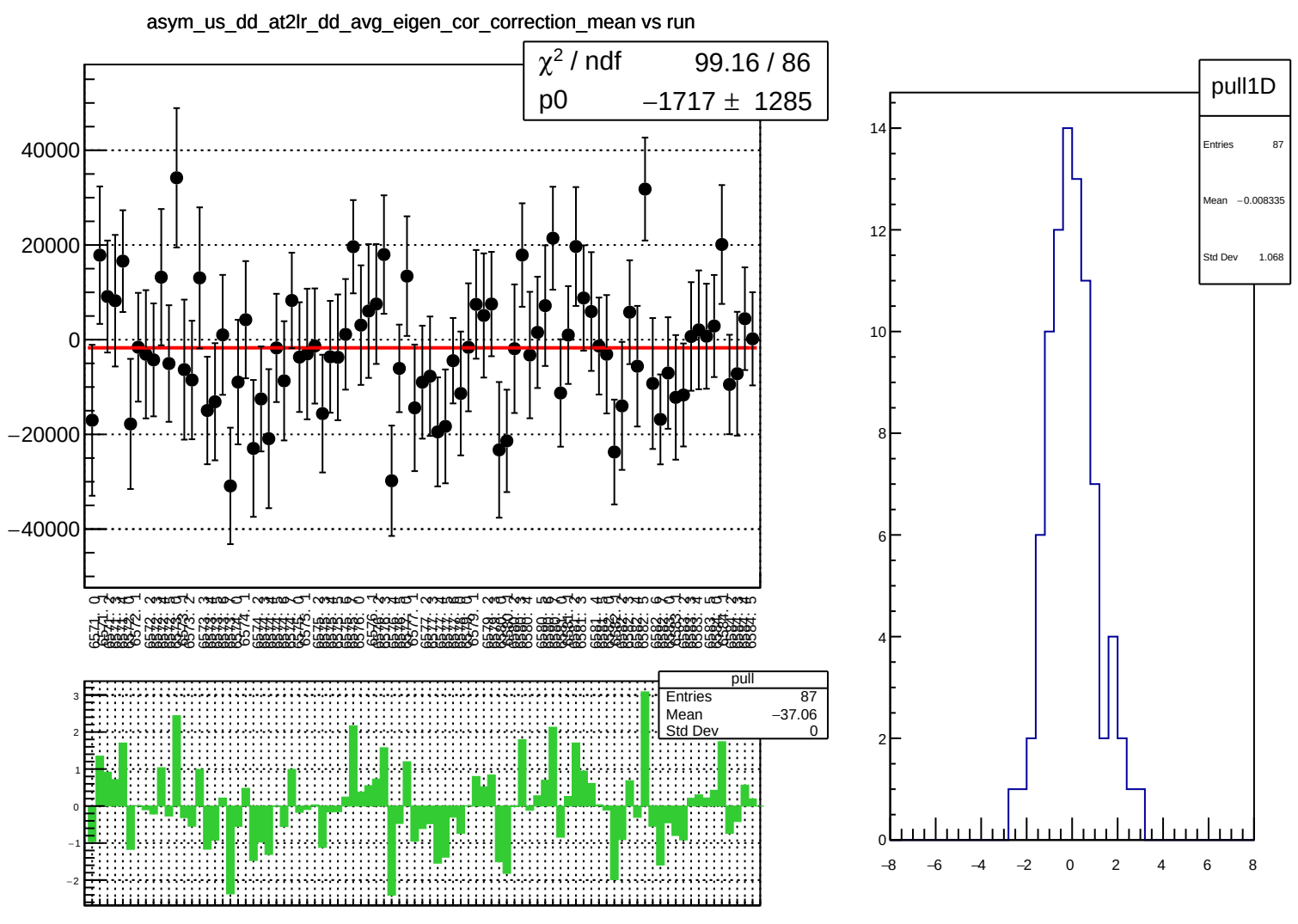

pull1D
Entries 87
Mean −0.008335
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

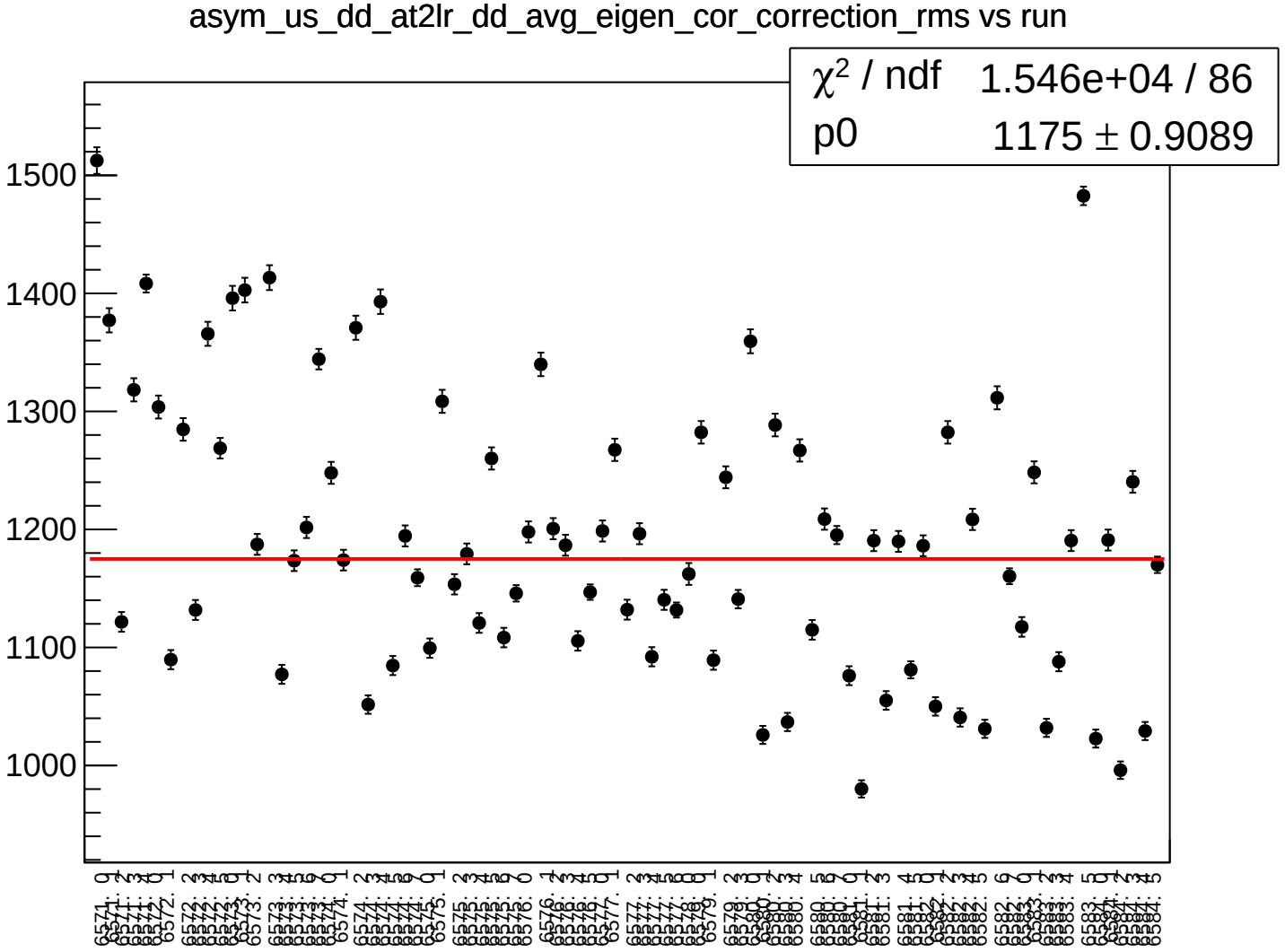

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.546e+04 / 86
p0 1175 ± 0.9089
1500
1400
1300
1200
1100
1000

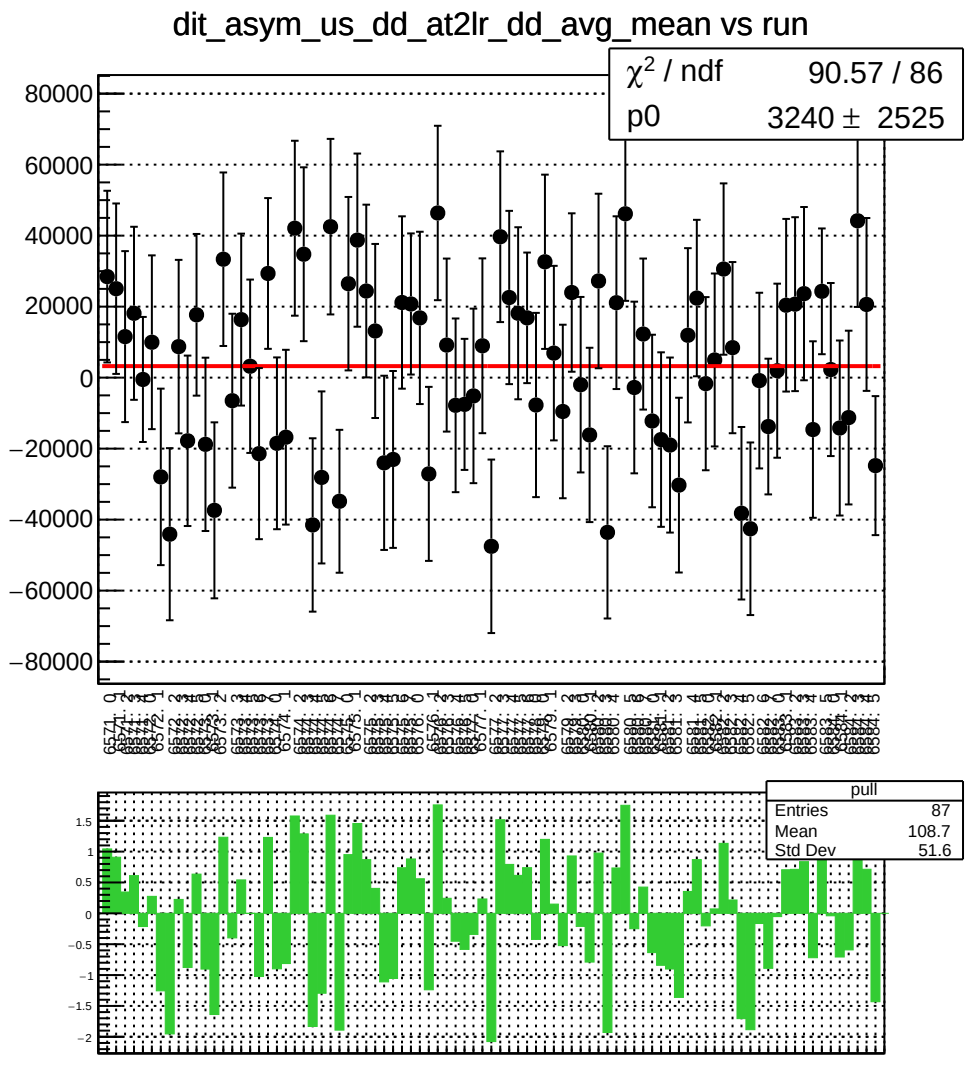

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.94 / 86
p0 3220 ± 2521
pull
Entries 87
Mean 218.4
Std Dev 0

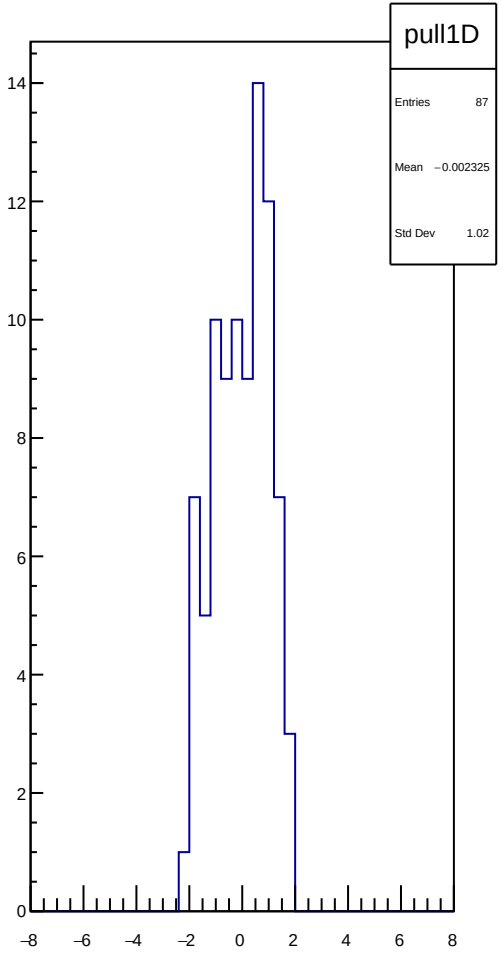

pull1D
Entries 87
Mean −0.001921
Std Dev 1.022

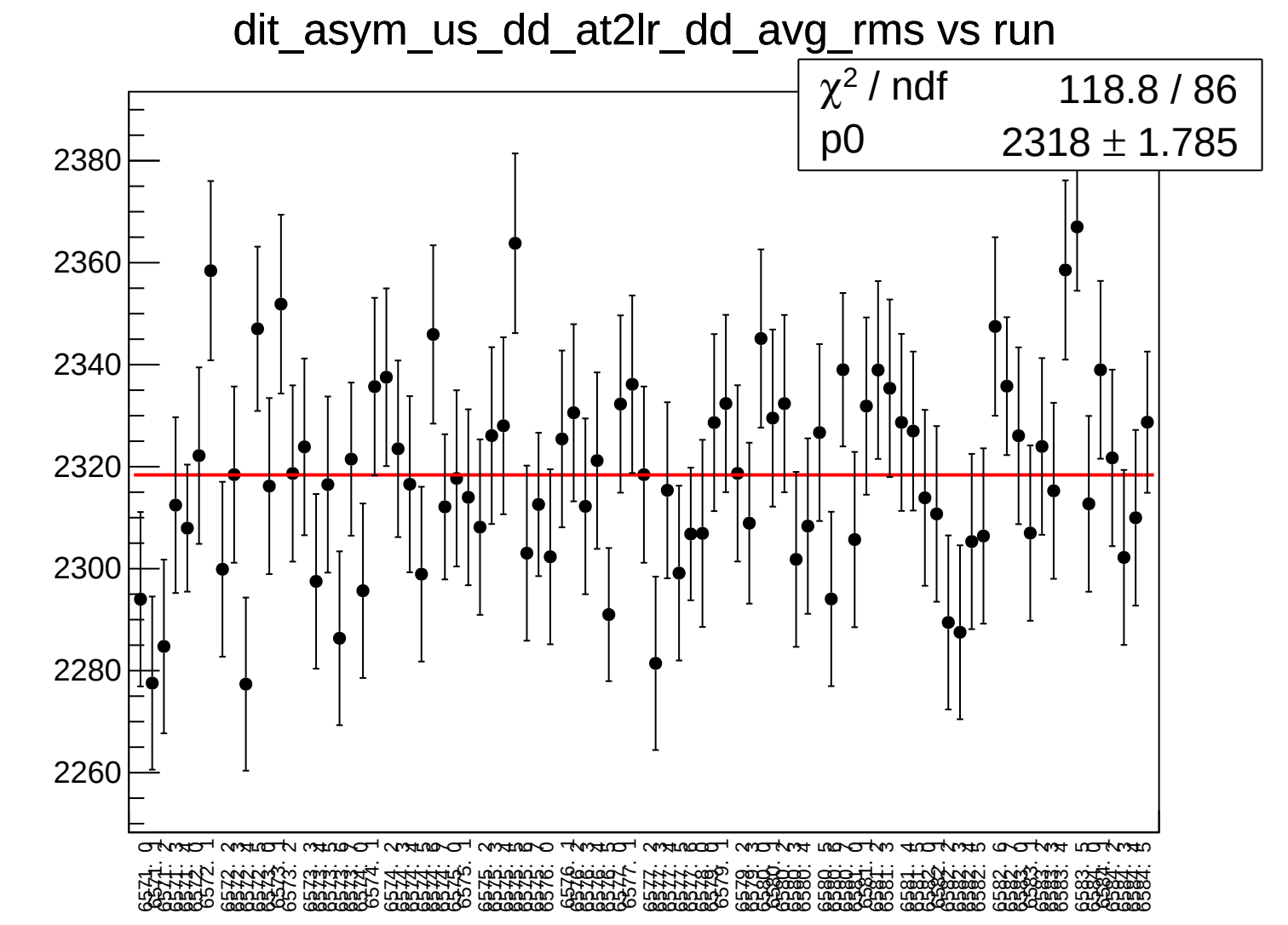

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 123.9 / 86
p0 2316 ± 1.783
2380
2360
2340
2320
2300
2280
2260

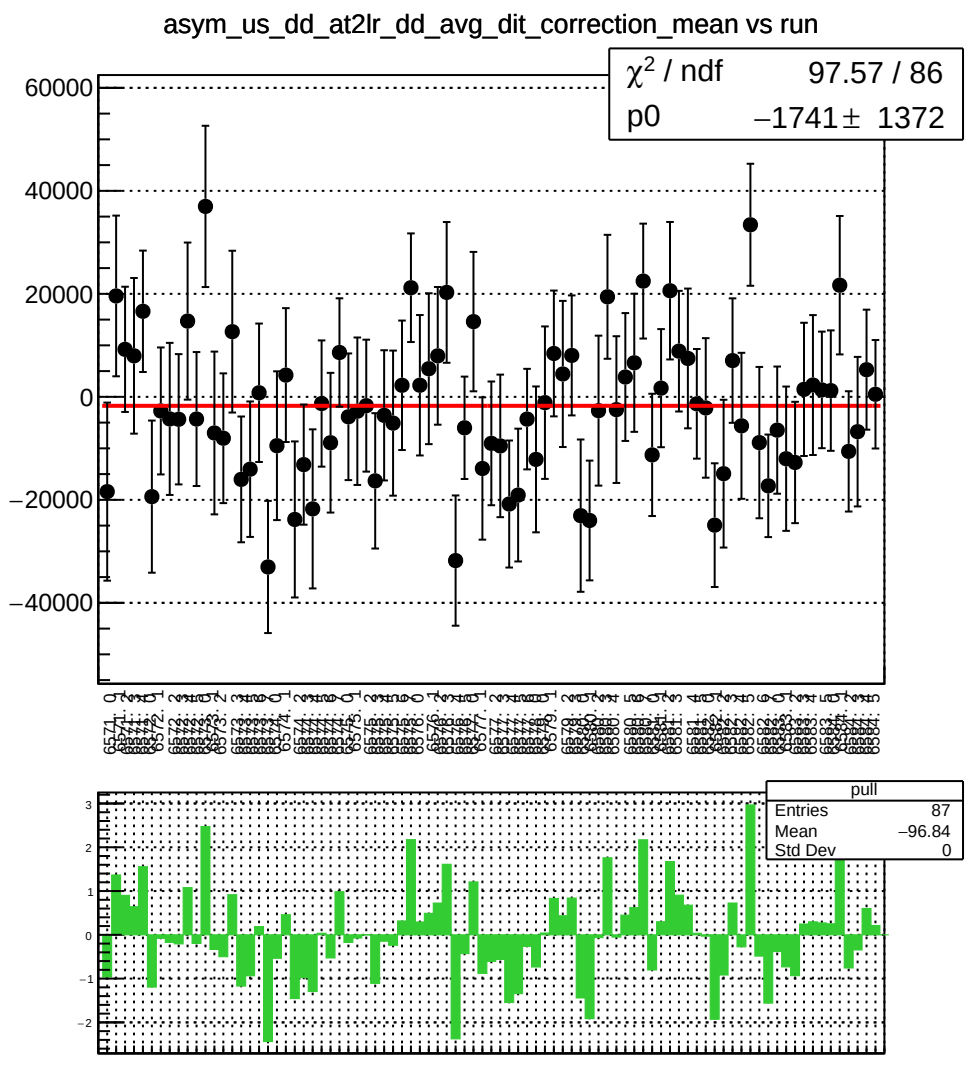

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.16 / 86
p0 −1717 ± 1285
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −37.06
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.008335
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

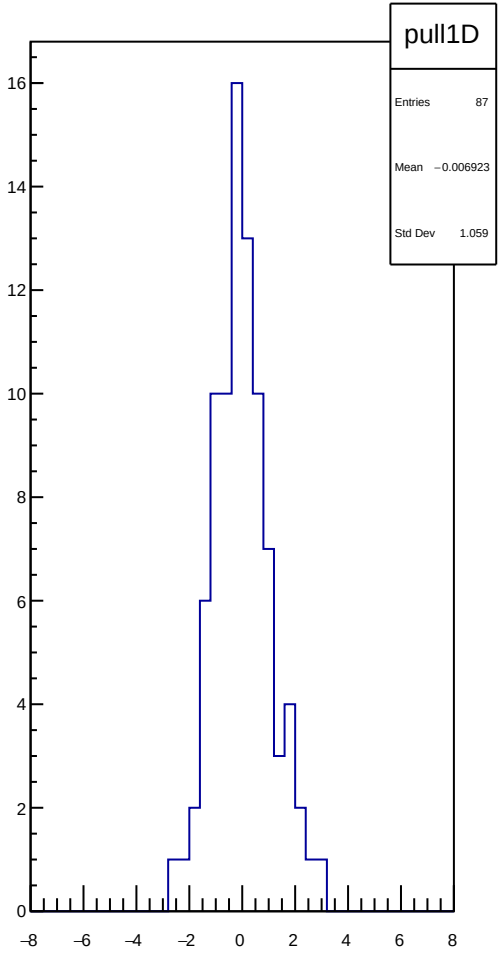

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.546e+04 / 86
p0 1175 ± 0.9089
1500
1400
1300
1200
1100
1000

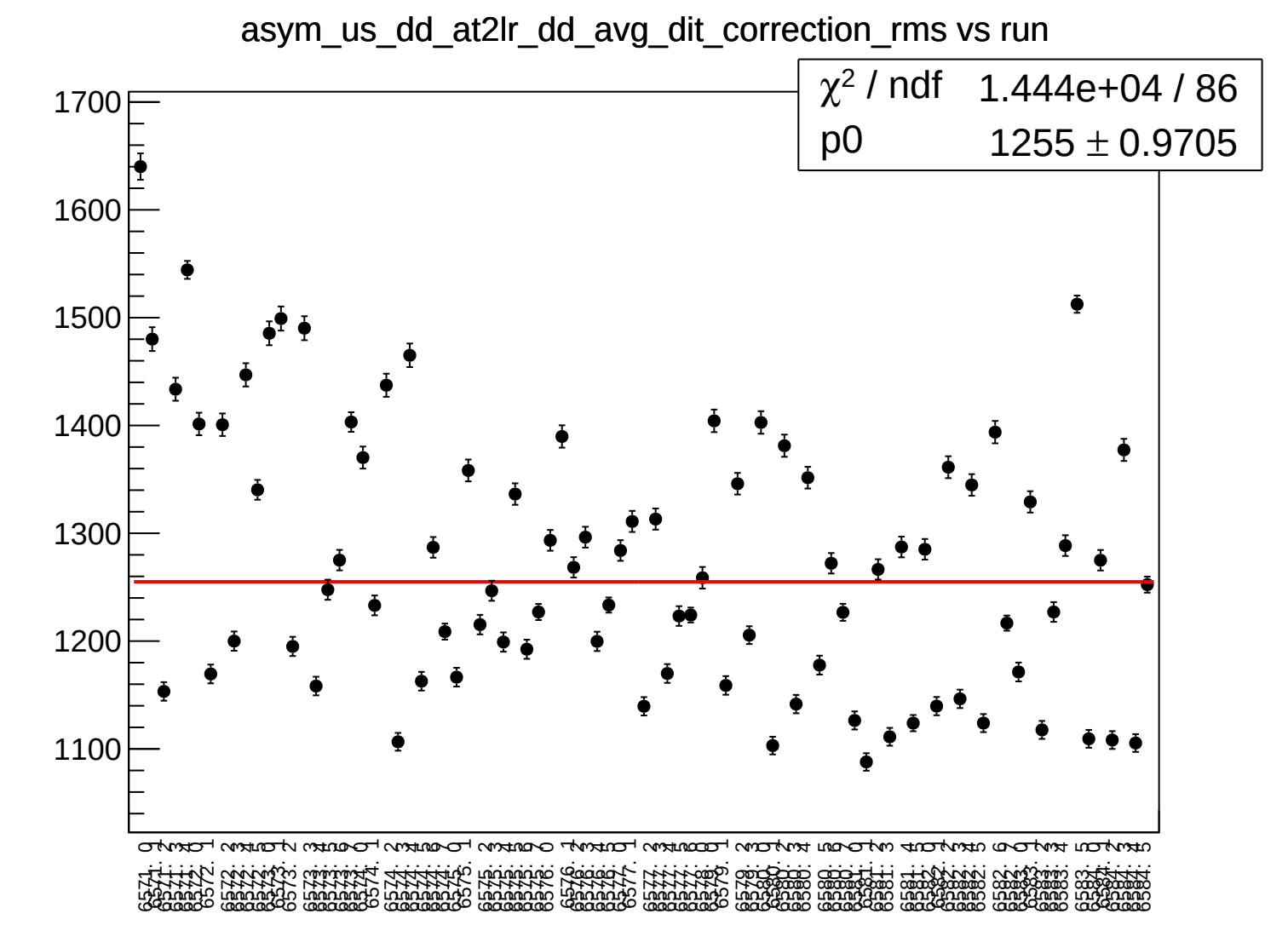

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.57 / 86
p0 3240 ± 2525
pull
Entries 87
Mean 108.7
Std Dev 51.6

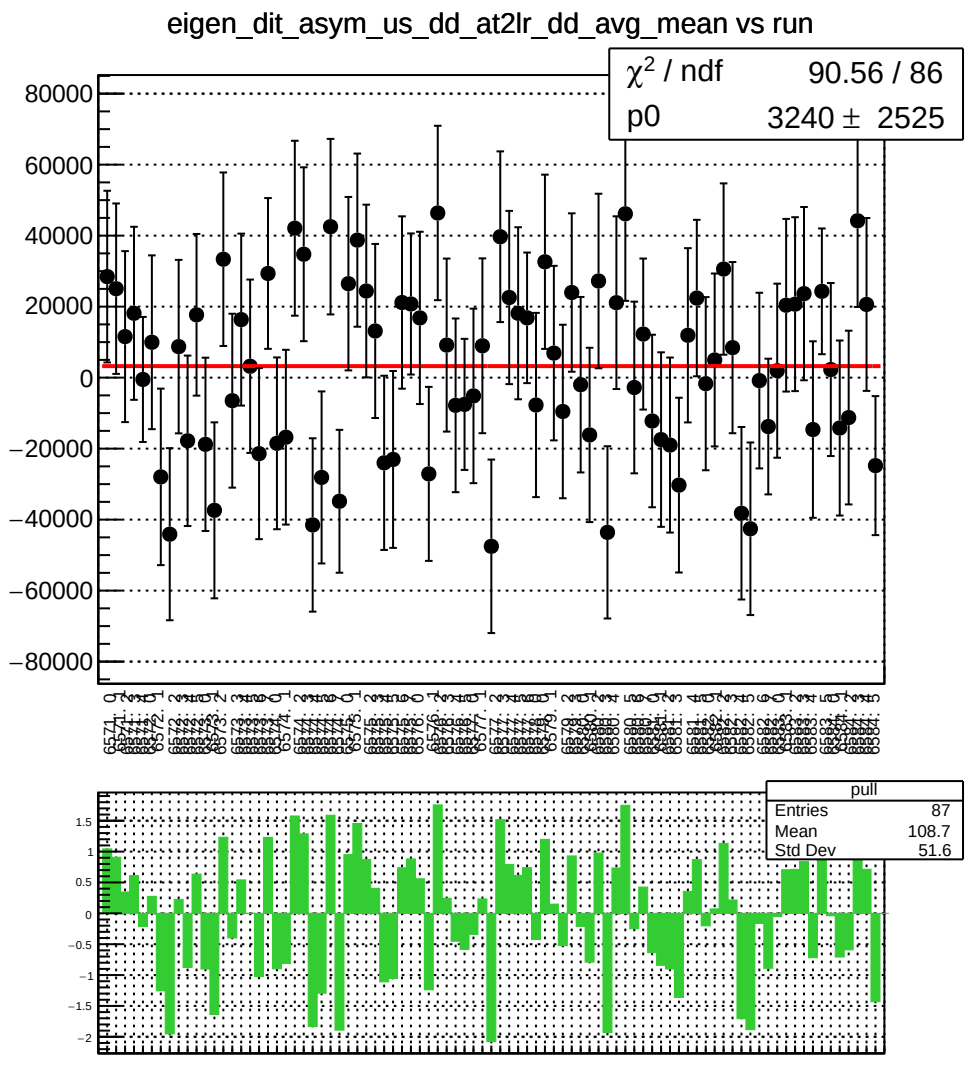

pull1D
Entries 87
Mean −0.002325
Std Dev 1.02

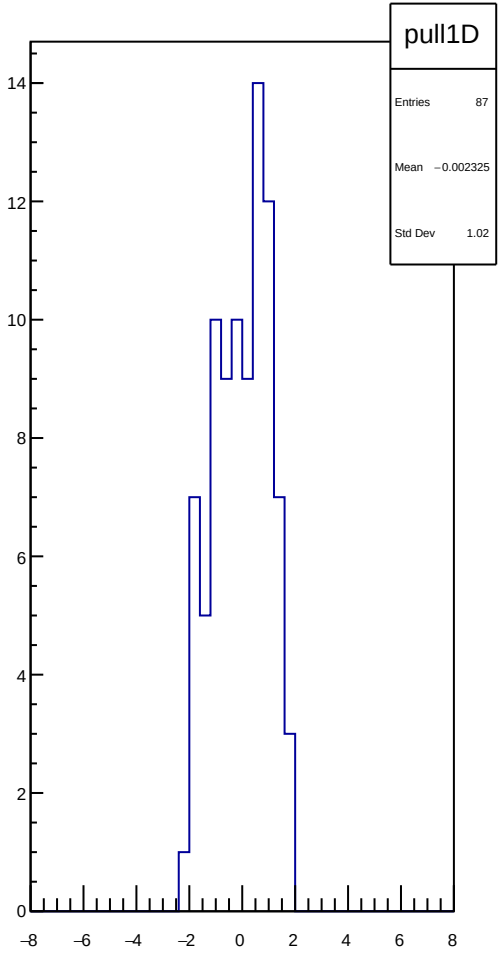

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 118.8 / 86
p0 2318 ± 1.785
2380
2360
2340
2320
2300
2280
2260

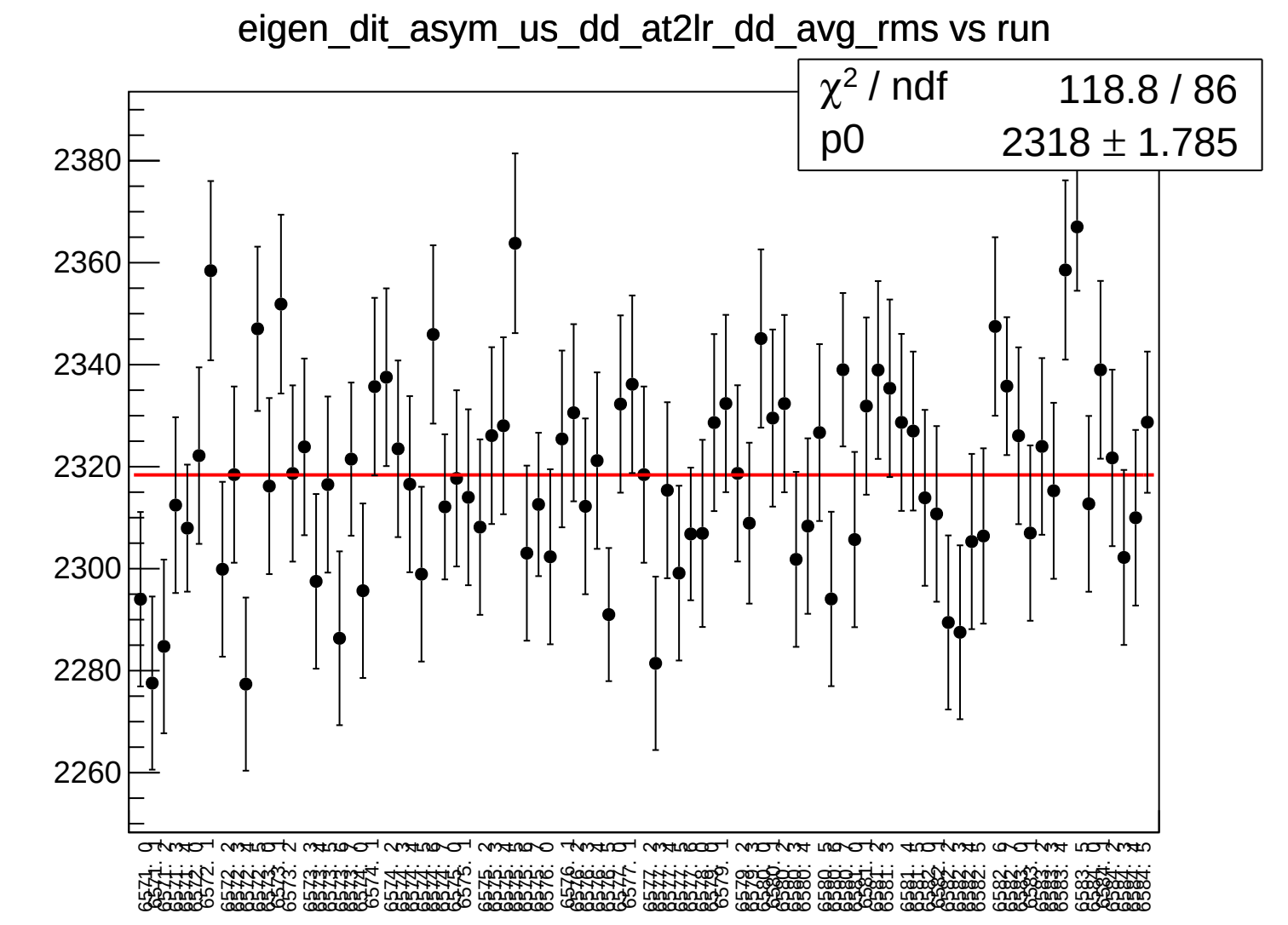

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 97.57 / 86
p0 −1741 ± 1372
pull
Entries 87
Mean −96.84
Std Dev 0

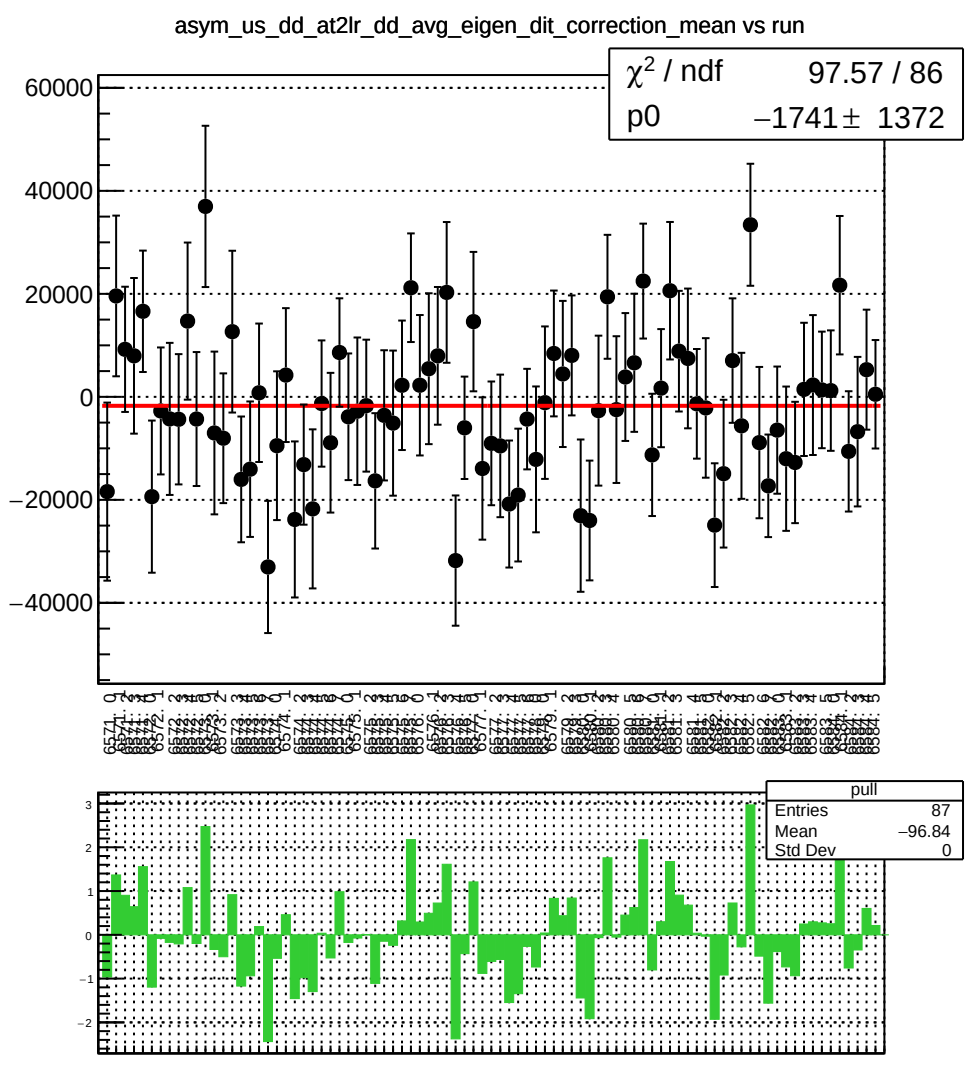

pull1D
Entries 87
Mean −0.006923
Std Dev 1.059

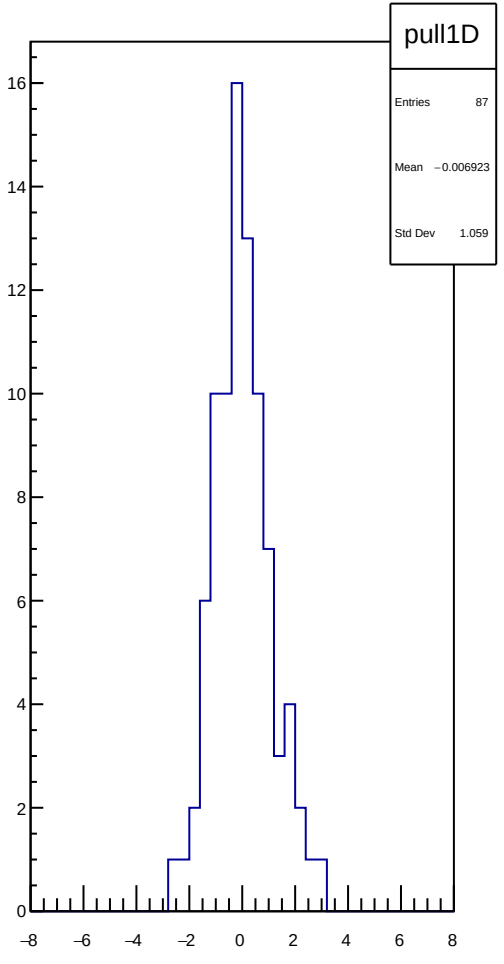

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.444e+04 / 86
p0 1255 ± 0.9705
1700
1600
1500
1400
1300
1200
1100

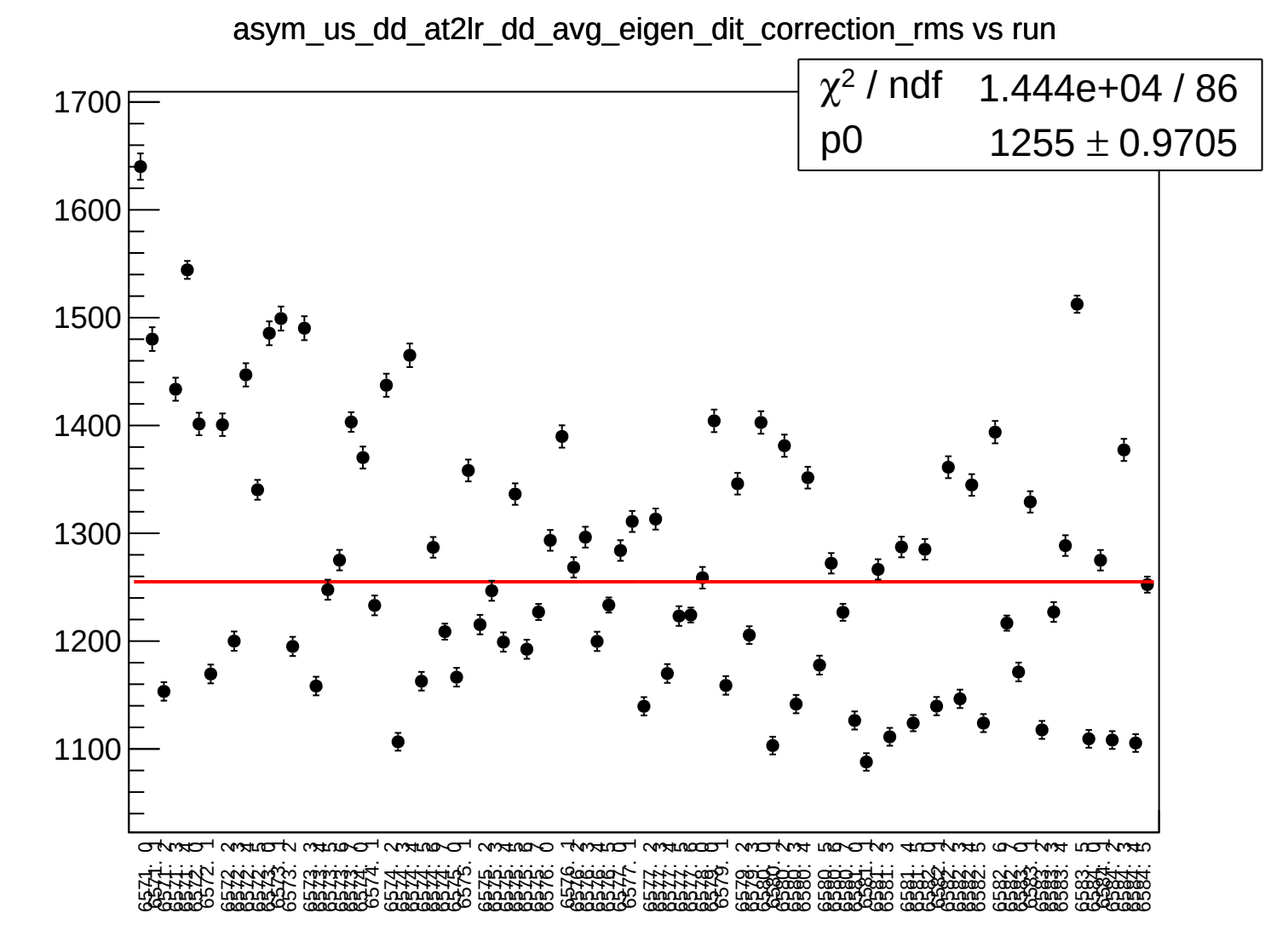

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.56 / 86
p0 3240 ± 2525
pull
Entries 87
Mean 108.7
Std Dev 51.6

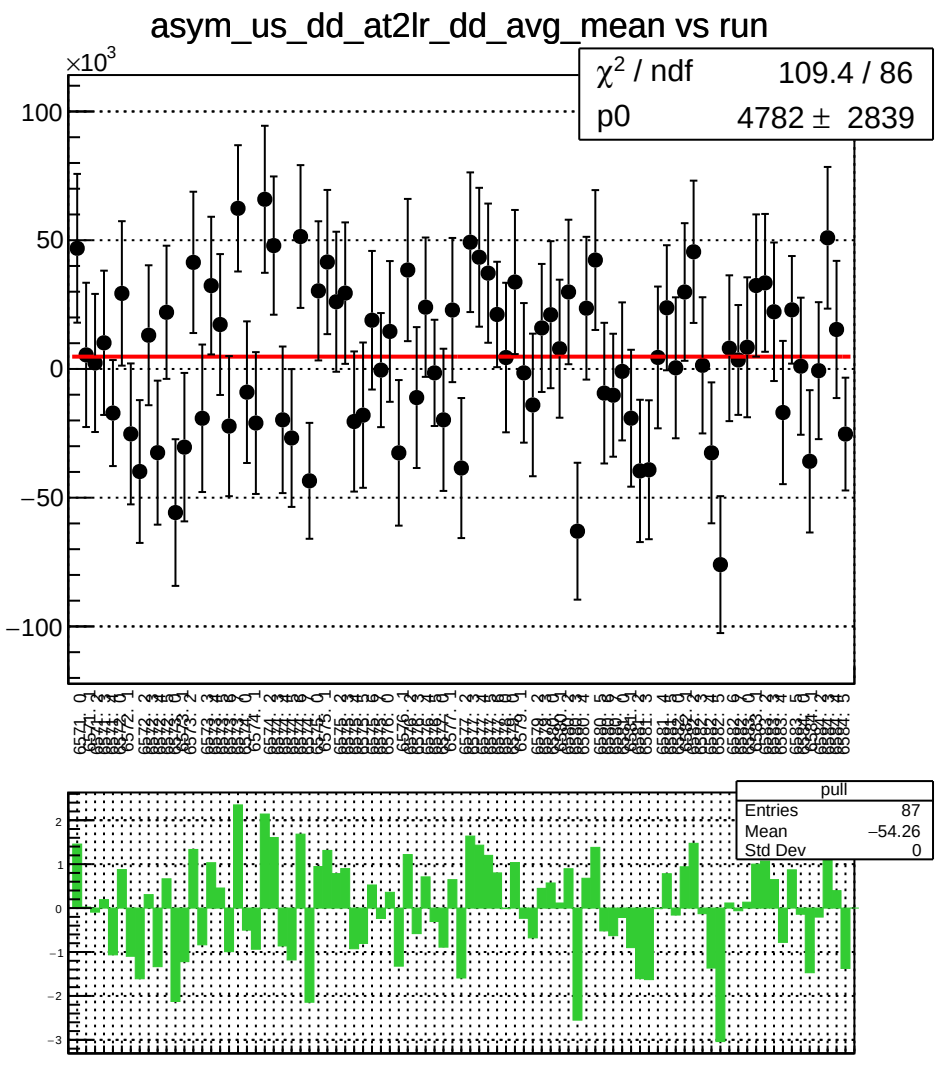

pull1D
Entries 87
Mean −0.002325
Std Dev 1.02

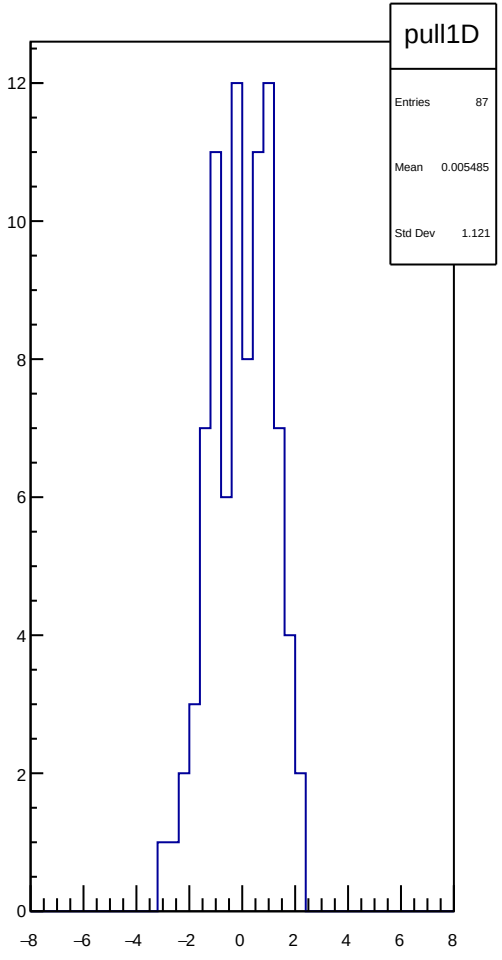

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 118.8 / 86
p0 2318 ± 1.785
2380
2360
2340
2320
2300
2280
2260

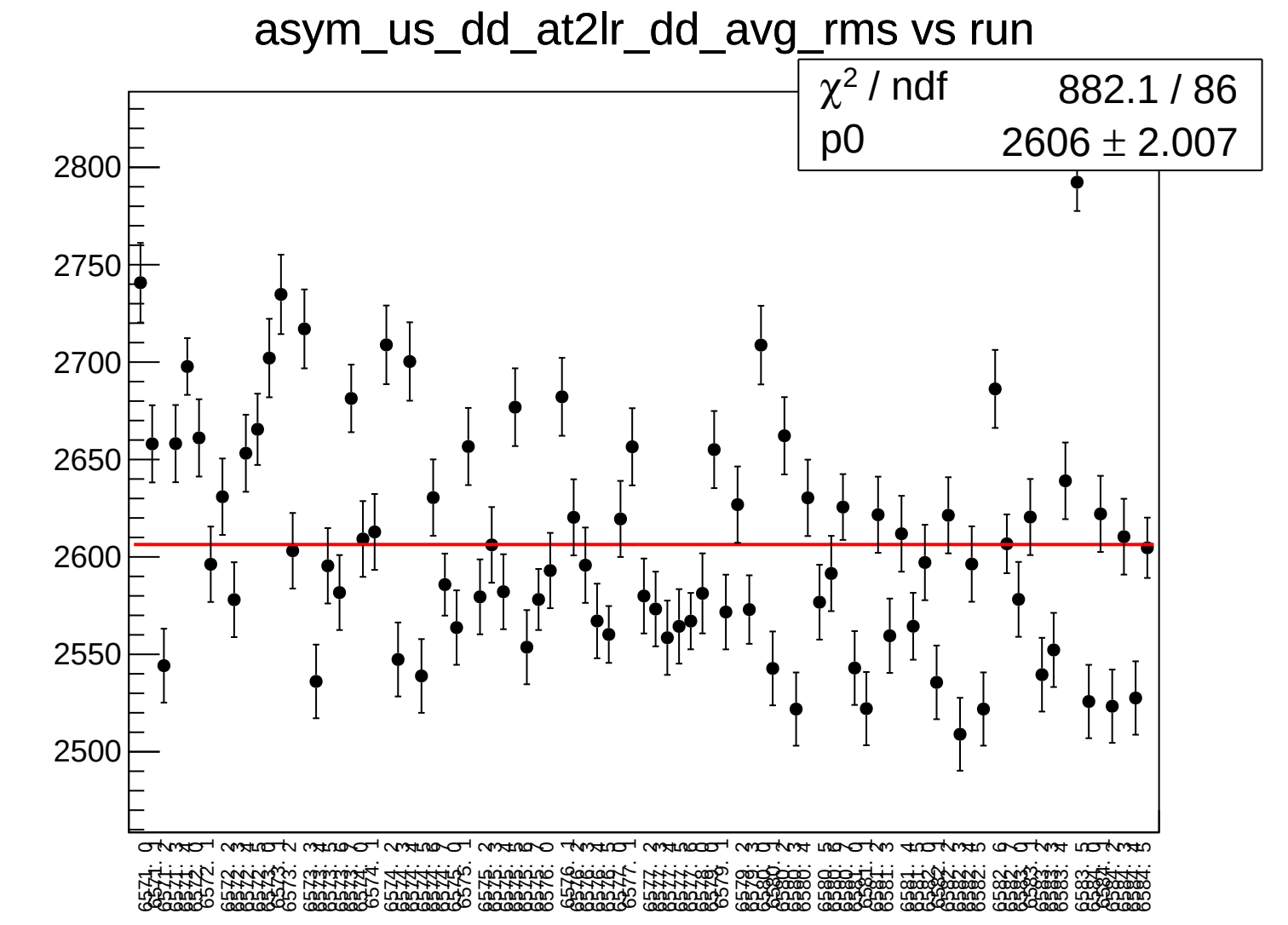

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.57 / 86
p0 −1741 ± 1372
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −96.84
Std Dev 0
3
2
1
0
−1
−2

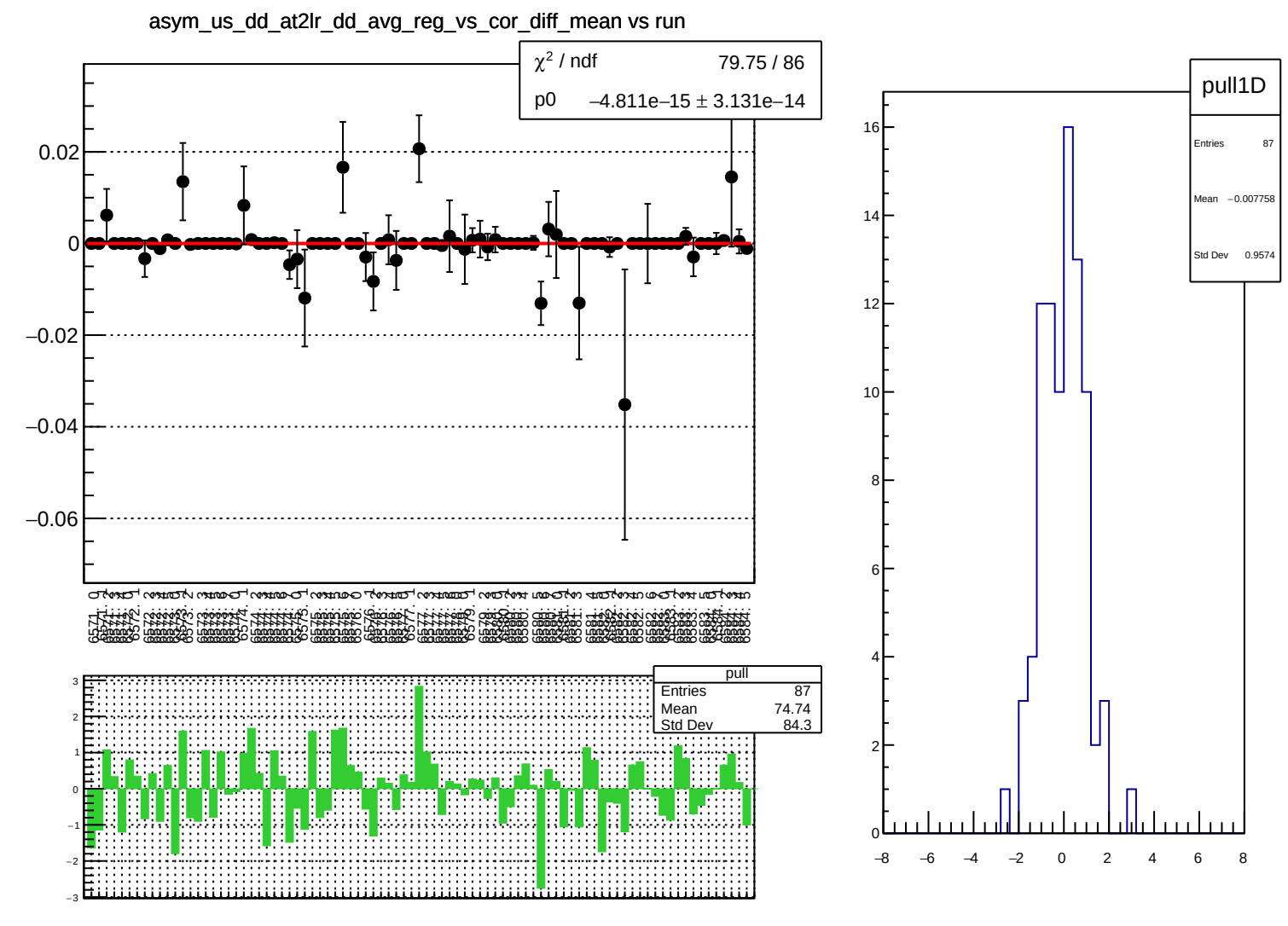

pull1D
Entries 87
Mean −0.006923
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

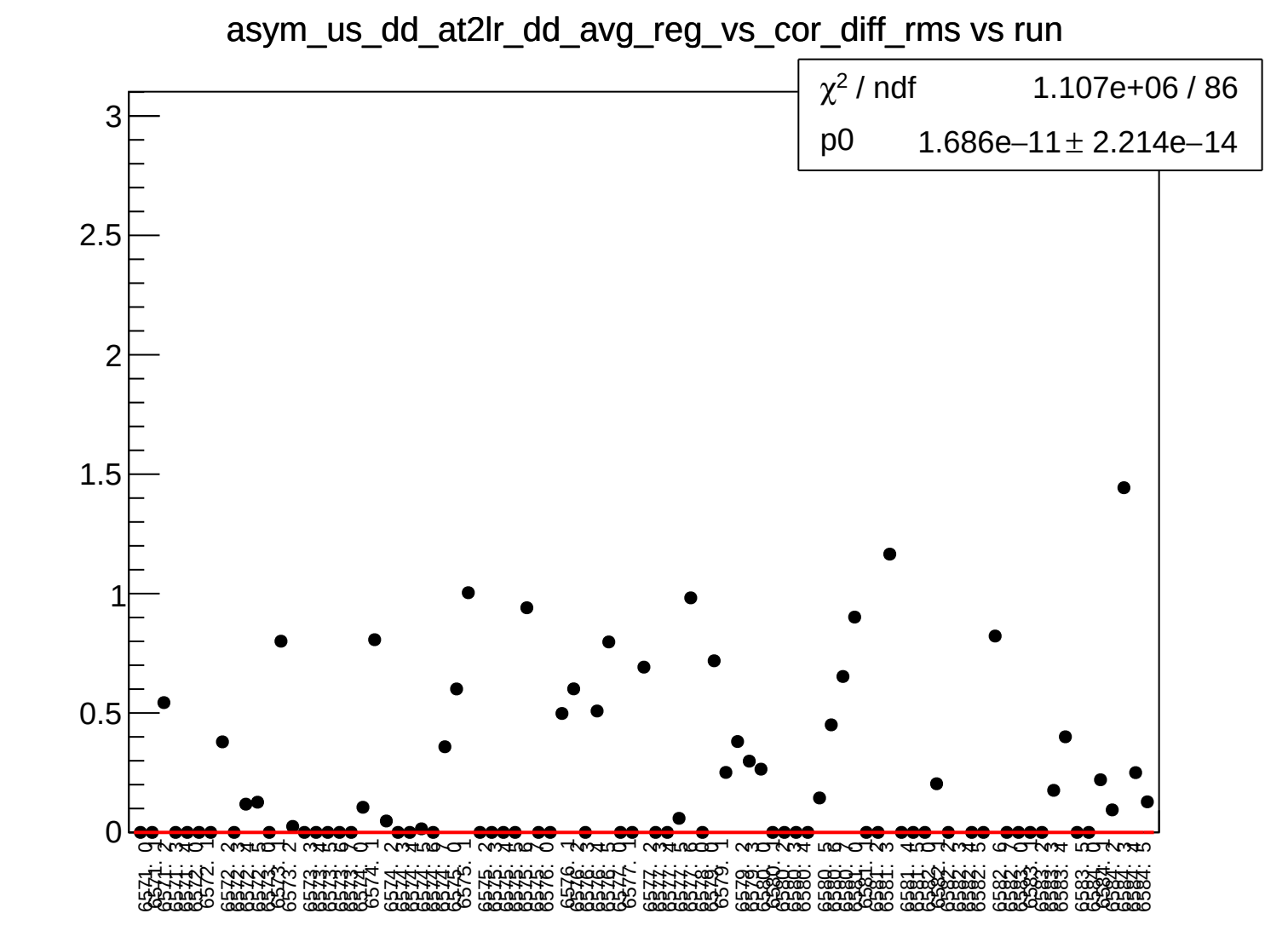

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.444e+04 / 86
p0 1255 ± 0.9705
1700
1600
1500
1400
1300
1200
1100

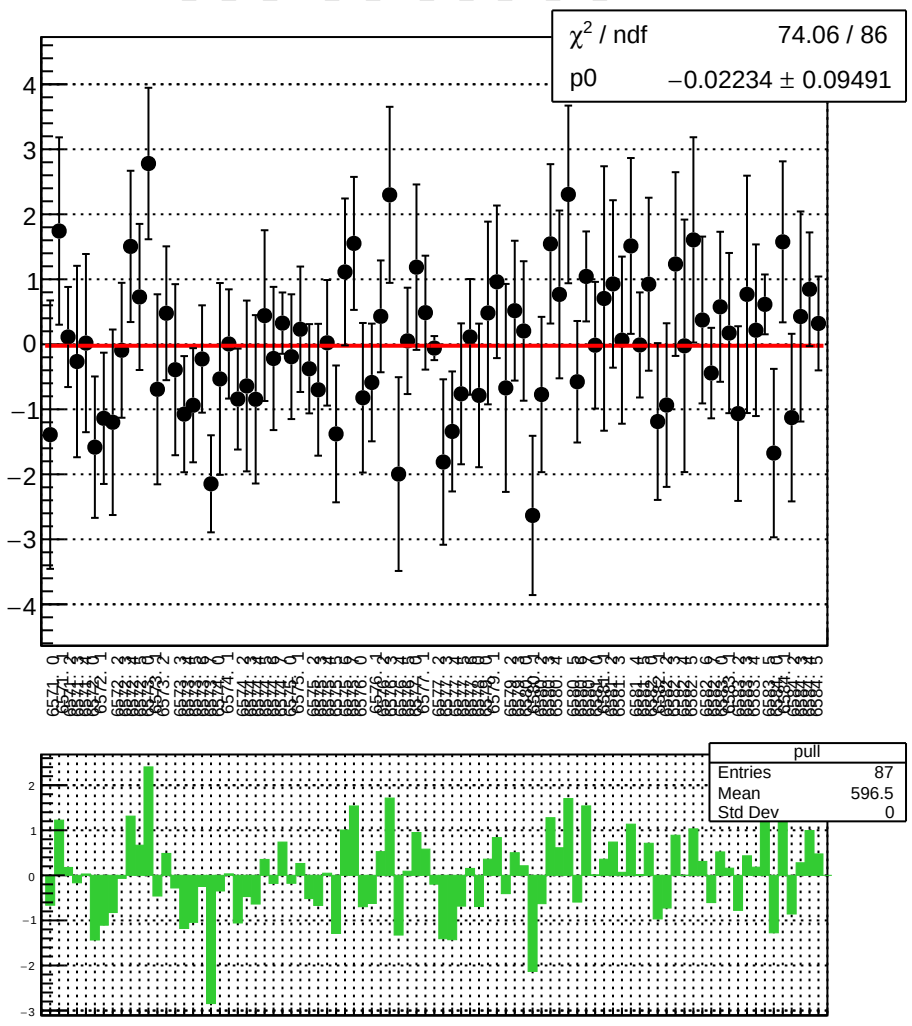

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 109.4 / 86
p0 4782 ± 2839
100
50
0
−50
−100
pull
Entries 87
Mean −54.26
Std Dev 0
2
1
0
−1
−2
−3

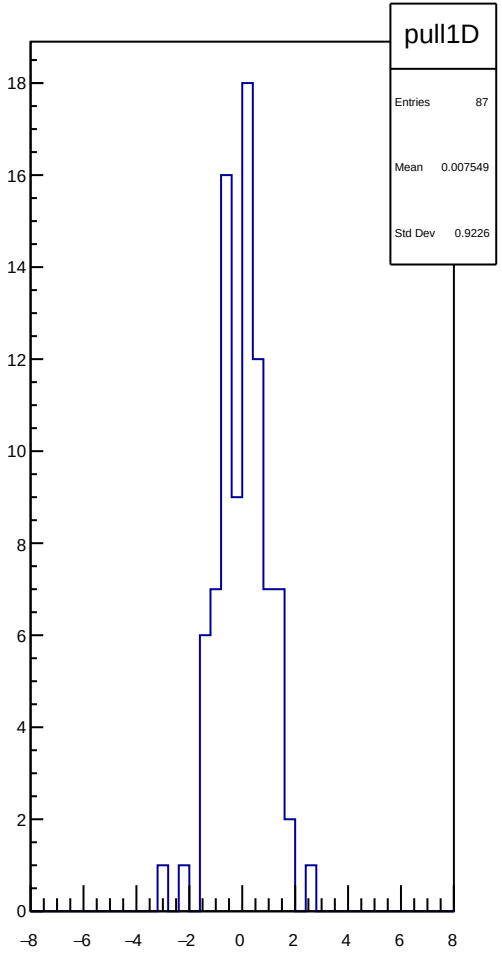

pull1D
Entries 87
Mean 0.005485
Std Dev 1.121
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

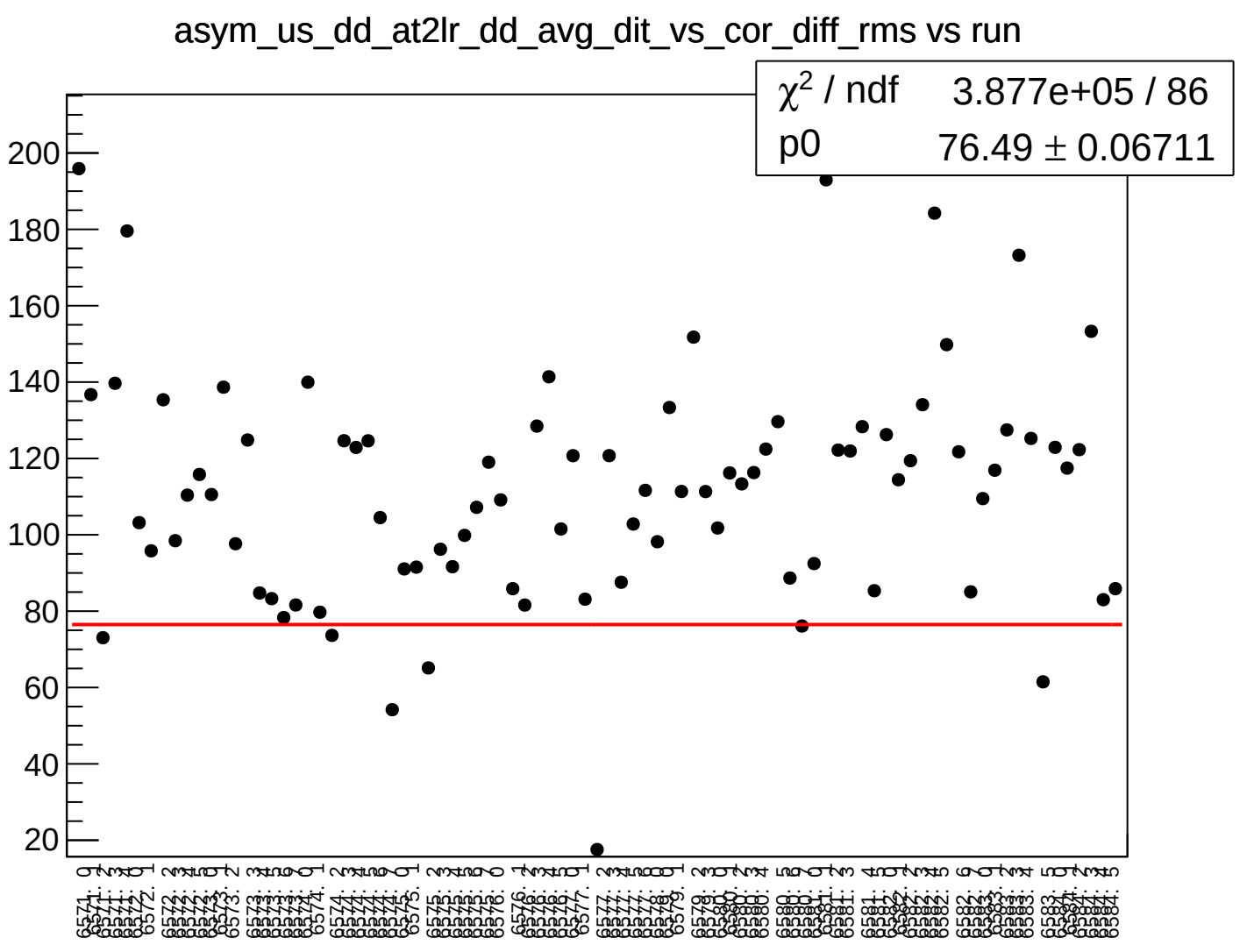

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 882.1 / 86
p0 2606 ± 2.007
2800
2750
2700
2650
2600
2550
2500

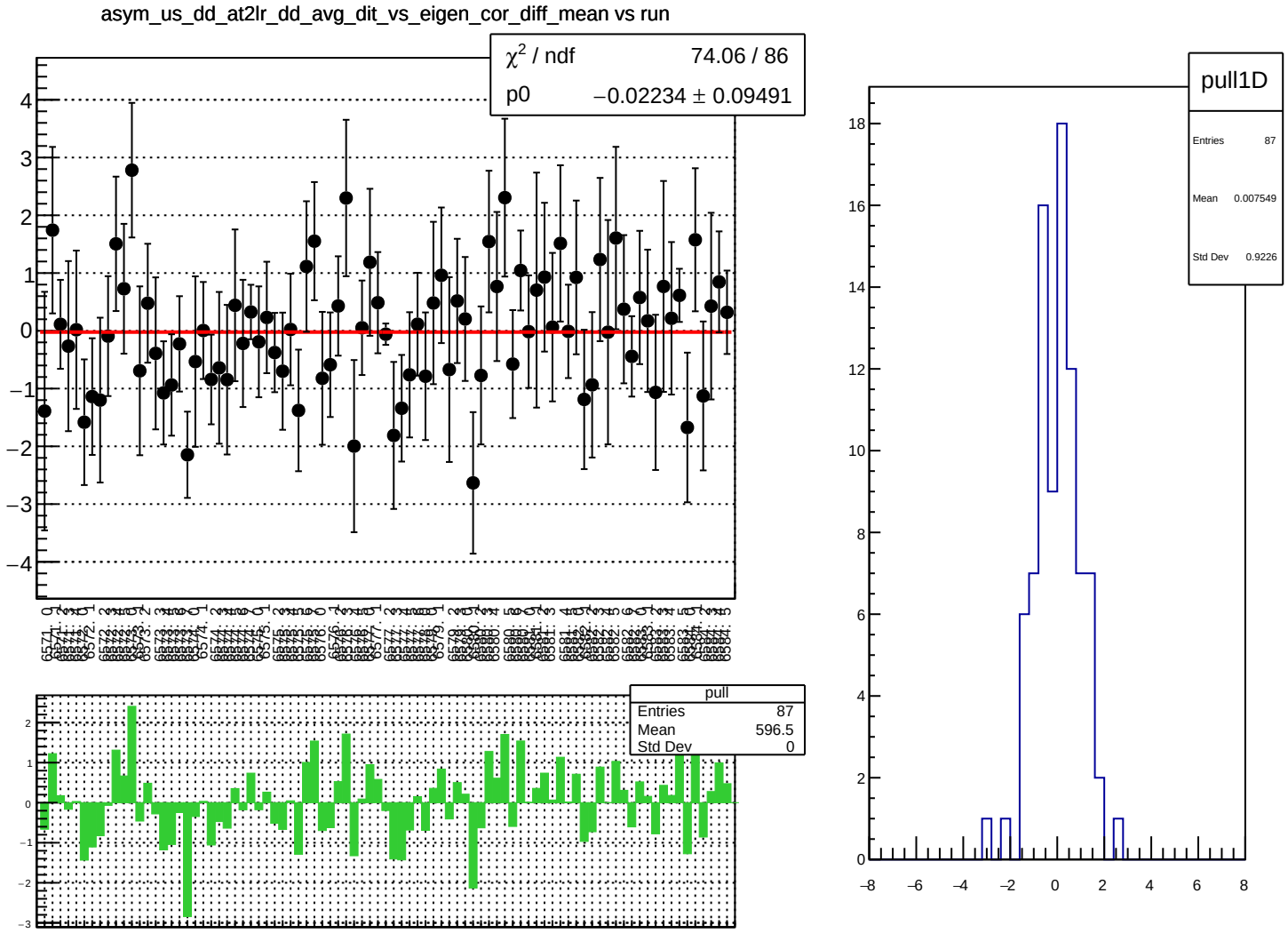

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.75 / 86
p0 −4.811e−15 ± 3.131e−14
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean 74.74
Std Dev 84.3
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.007758
Std Dev 0.9574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

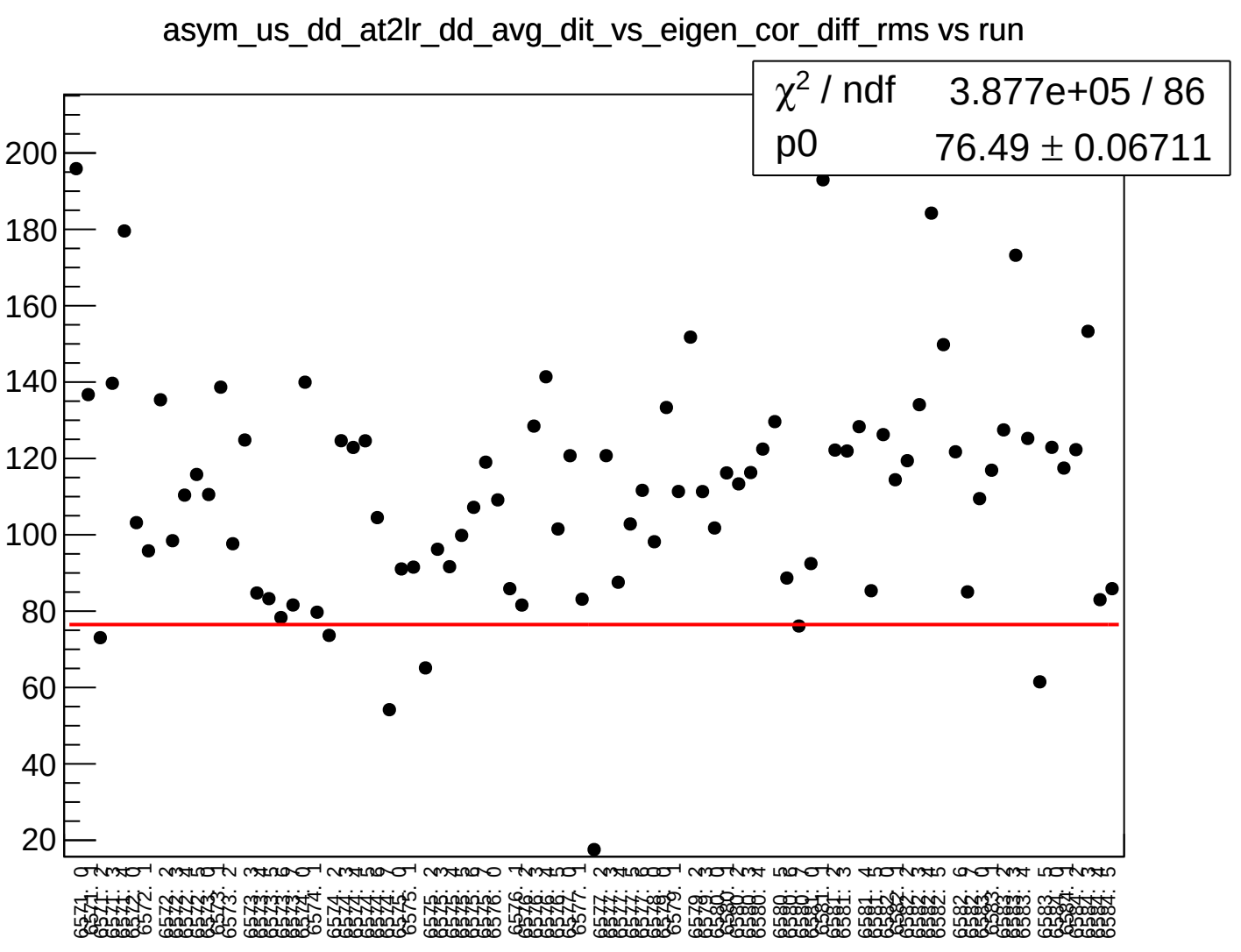

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.107e+06 / 86
p0 1.686e−11 ± 2.214e−14
3
2.5
2
1.5
1
0.5
0

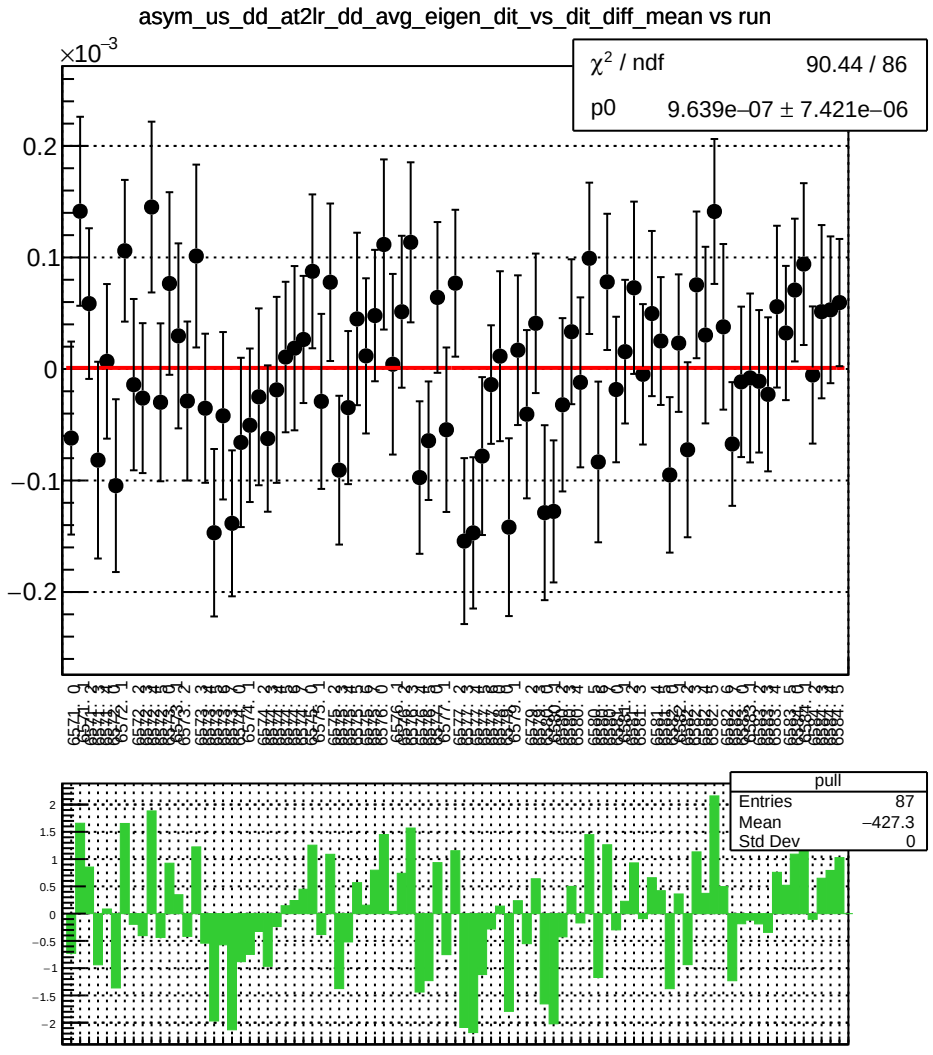

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.06 / 86
p0 −0.02234 ± 0.09491
pull
Entries 87
Mean 596.5
Std Dev 0

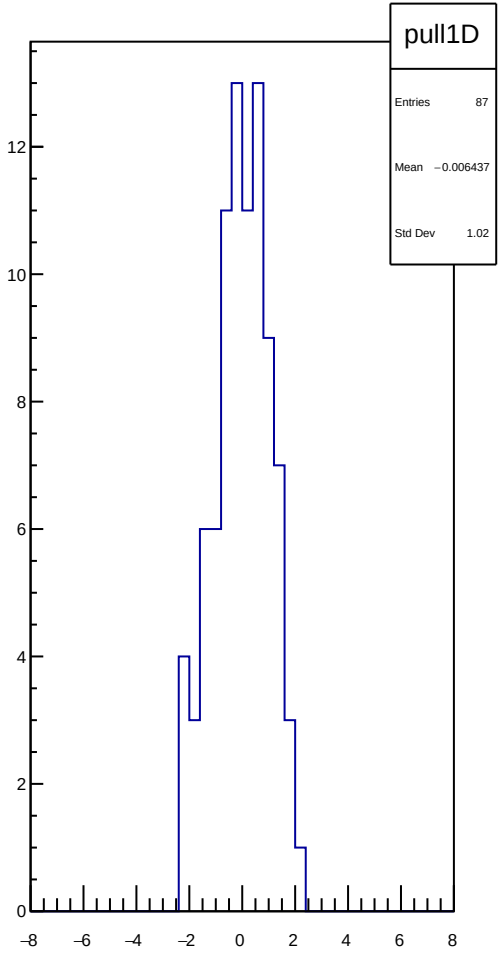

pull1D
Entries 87
Mean 0.007549
Std Dev 0.9226

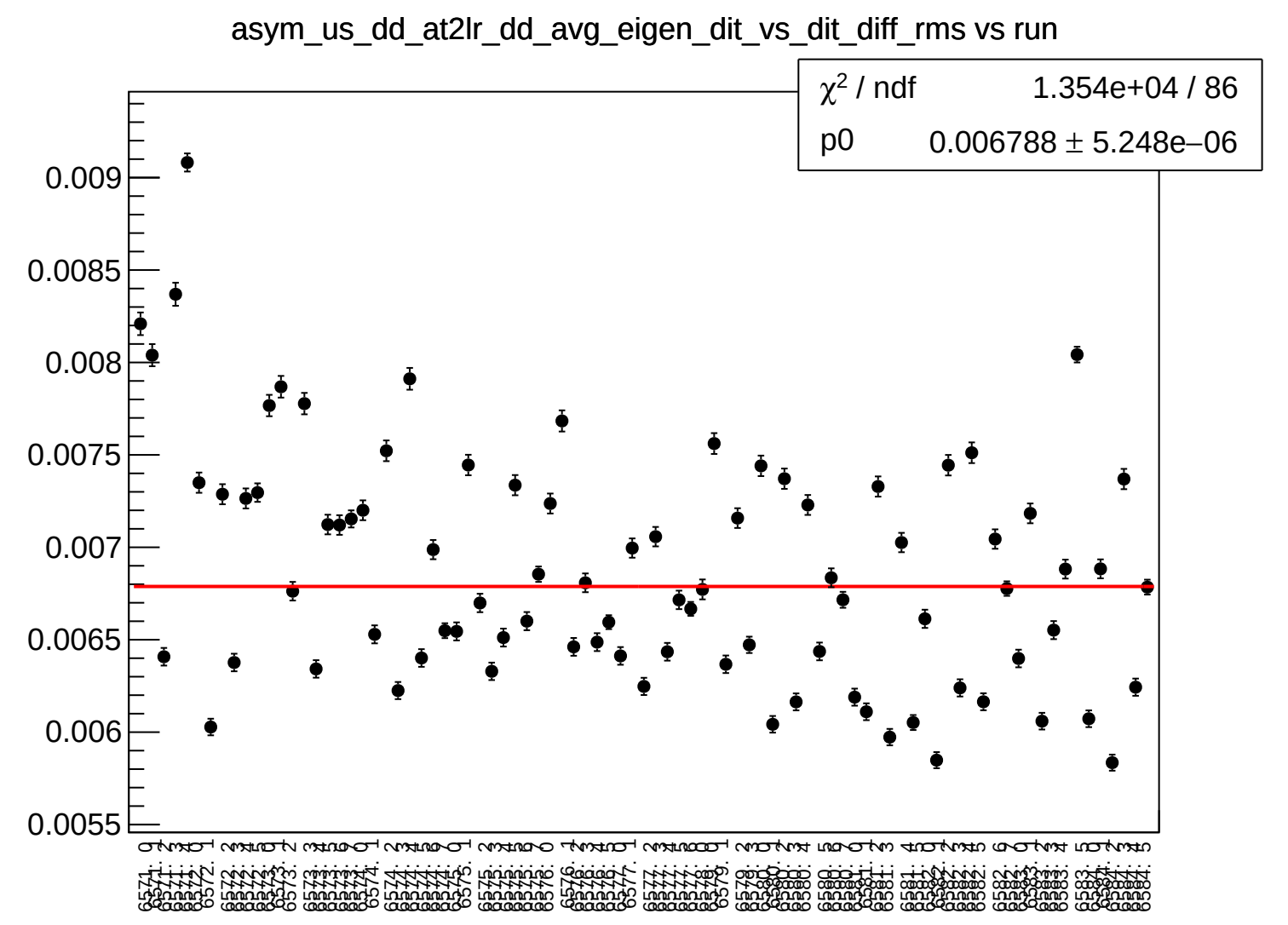

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.877e+05 / 86
p0 76.49 ± 0.06711
200
180
160
140
120
100
80
60
40
20

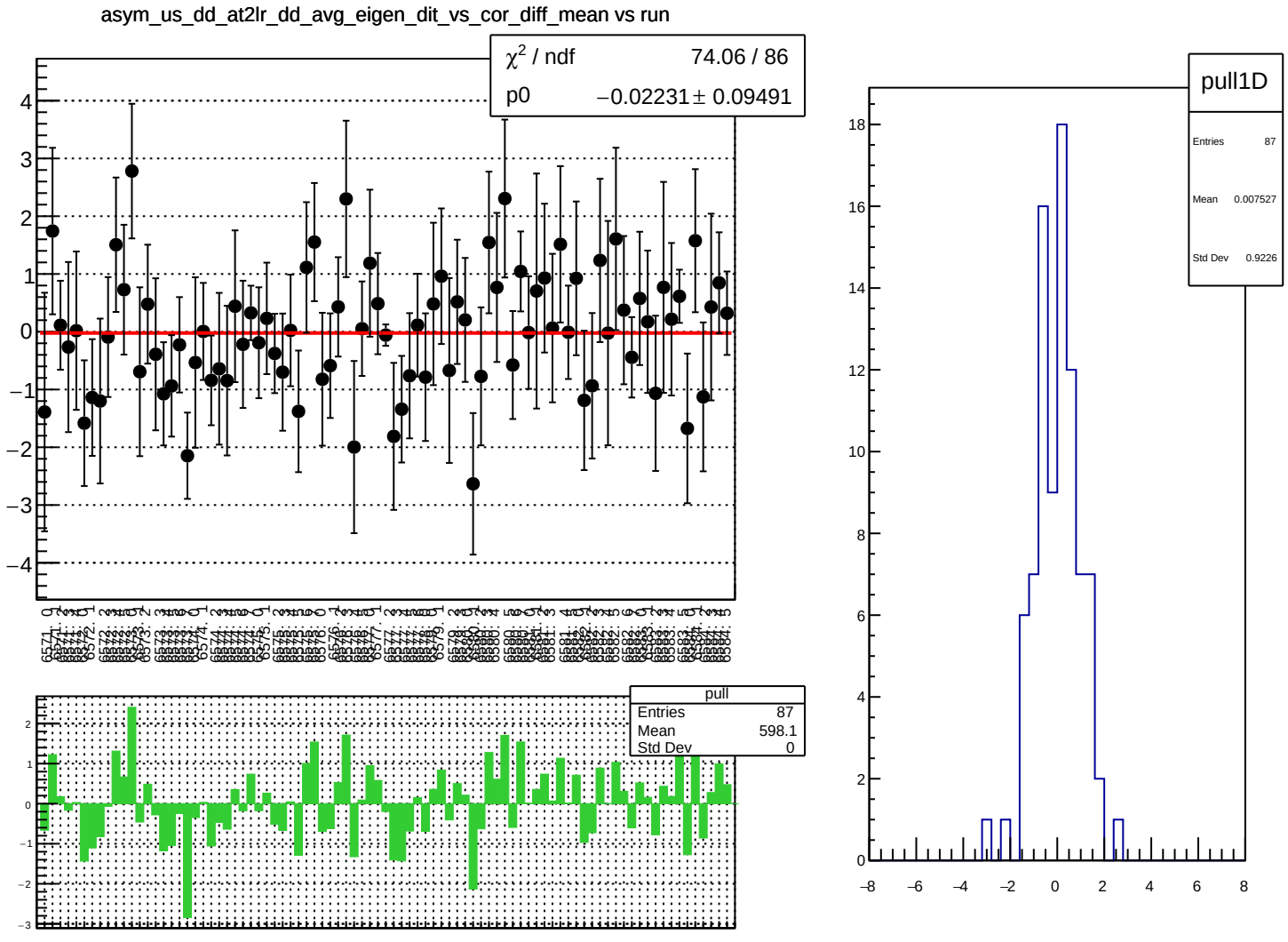

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.06 / 86
p0 −0.02234 ± 0.09491
pull
Entries 87
Mean 596.5
Std Dev 0
pull1D
Entries 87
Mean 0.007549
Std Dev 0.9226

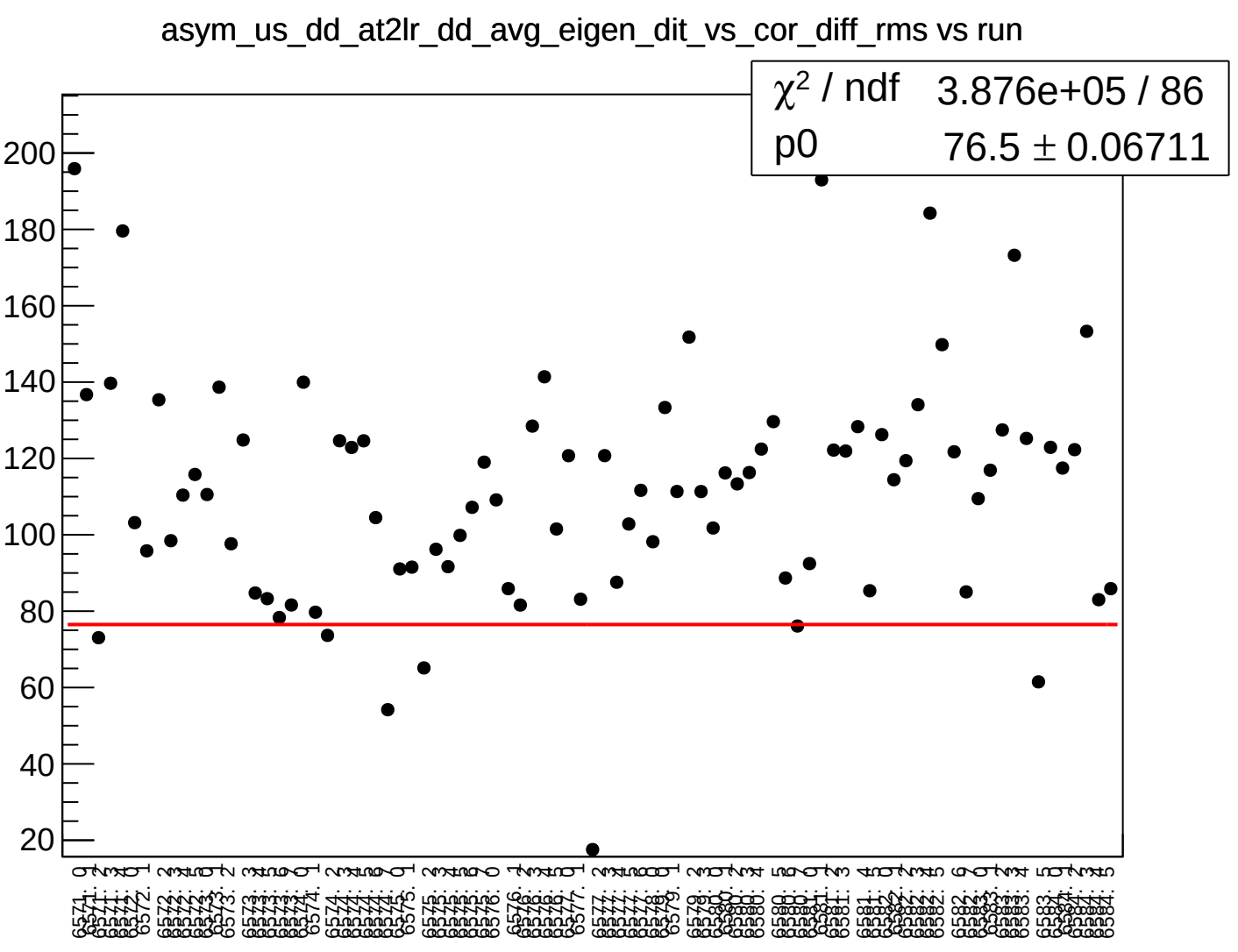

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.877e+05 / 86
p0 76.49 ± 0.06711
200
180
160
140
120
100
80
60
40
20

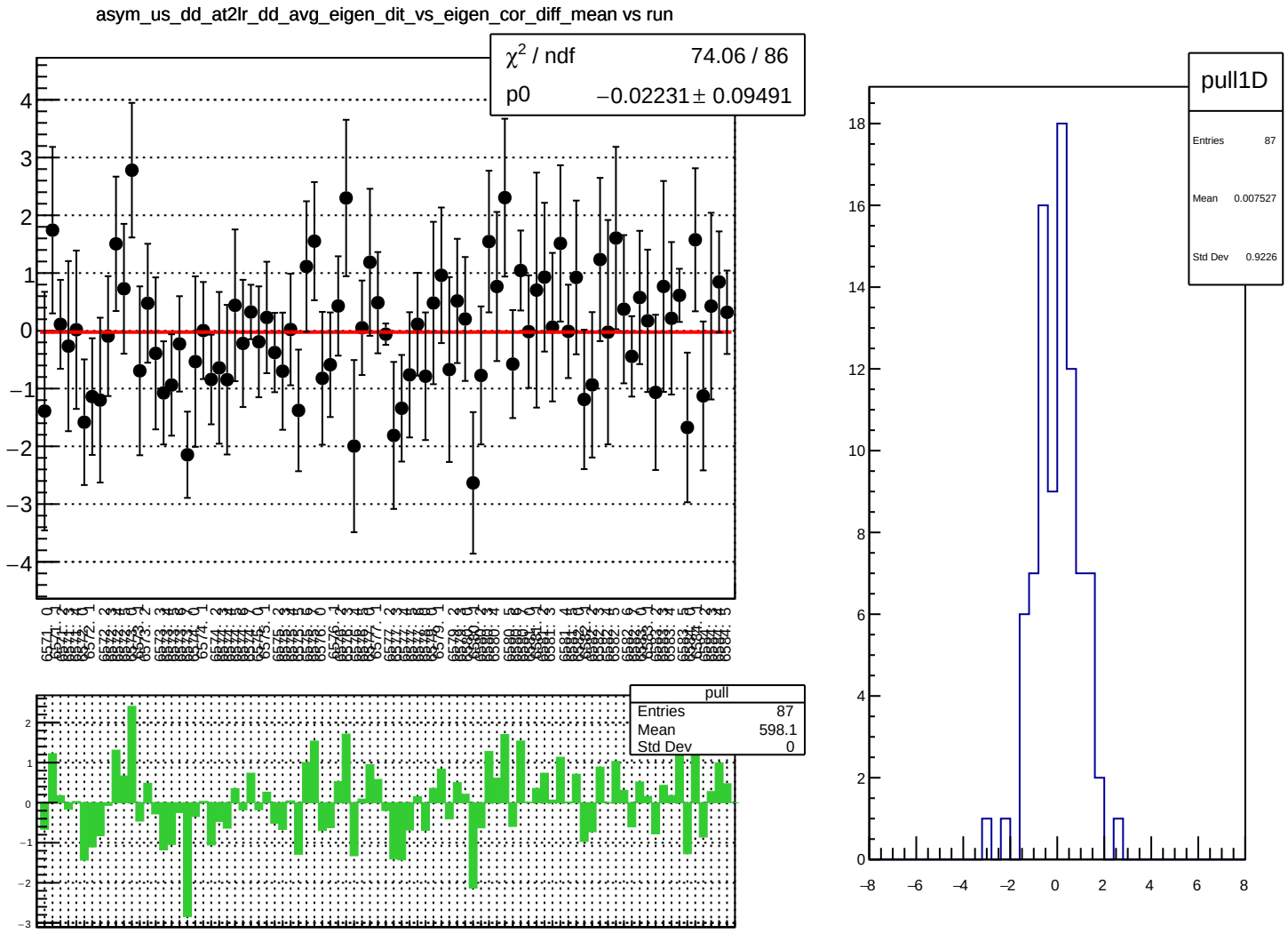

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.44 / 86
p0 9.639e−07 ± 7.421e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 87
Mean −427.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

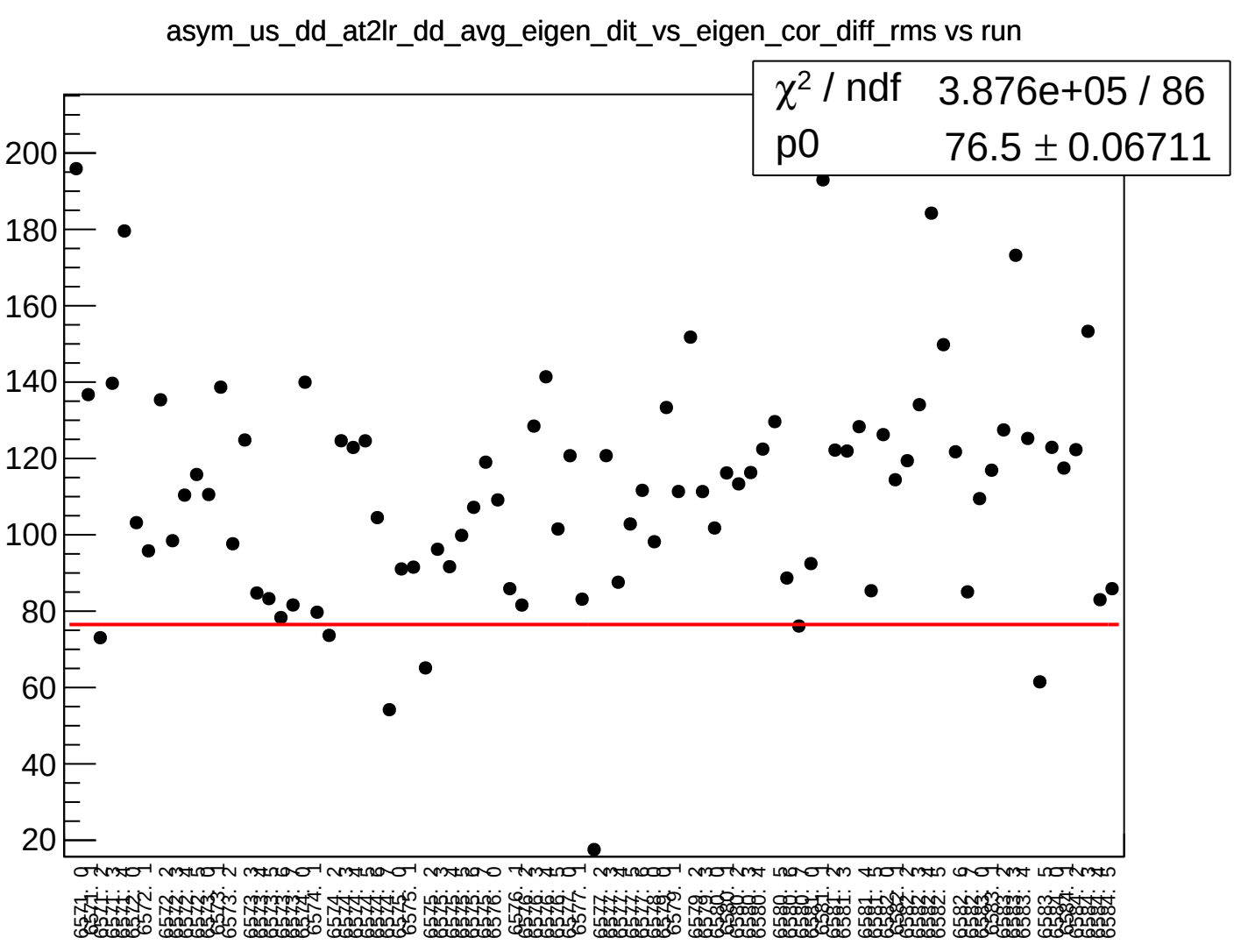

pull1D
Entries 87
Mean −0.006437
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

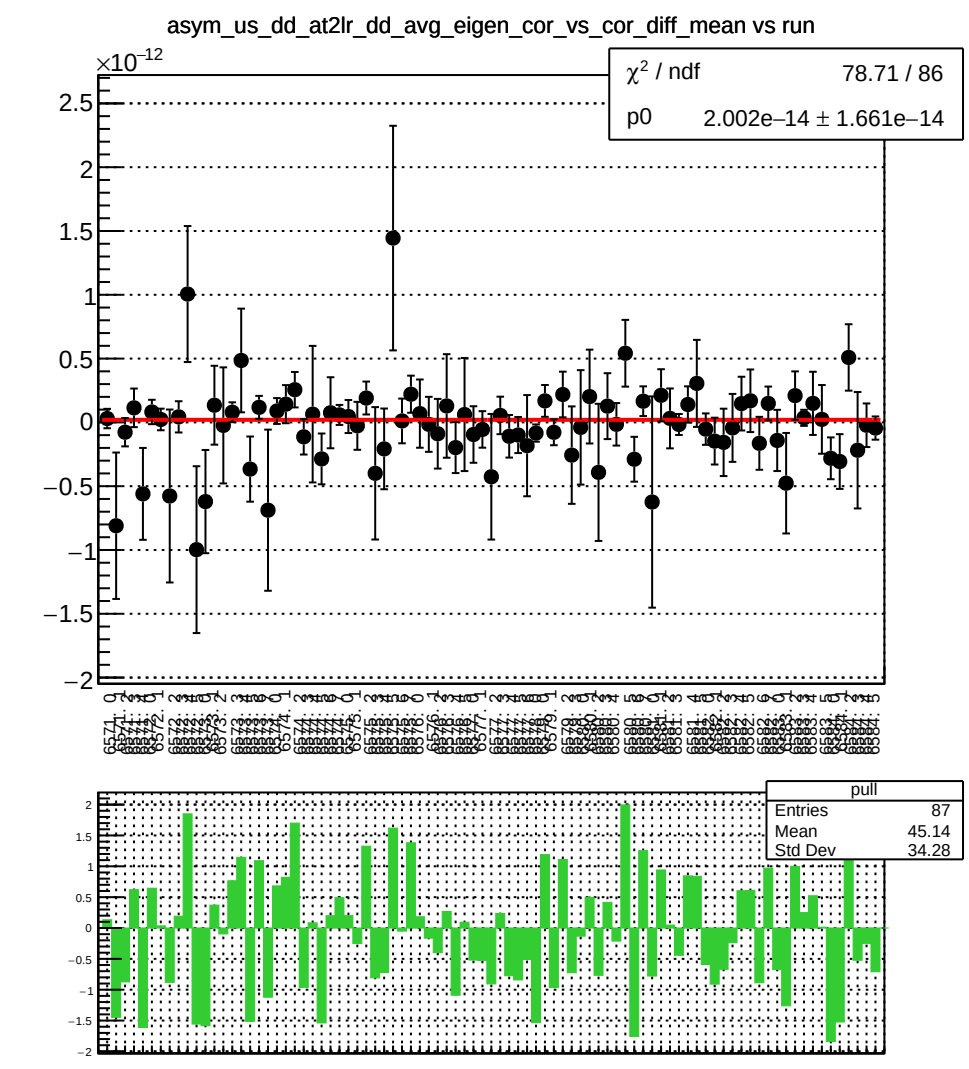

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.354e+04 / 86
p0 0.006788 ± 5.248e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

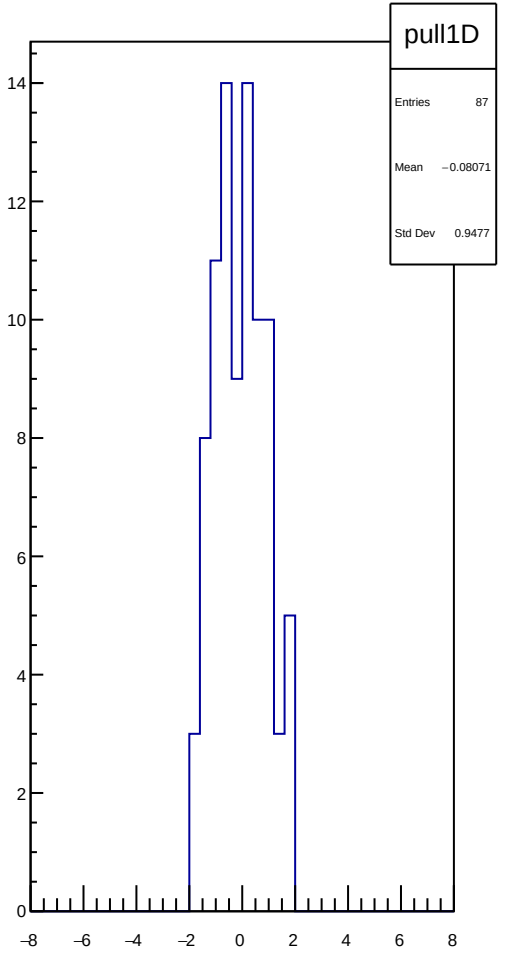

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.06 / 86
p0 −0.02231 ± 0.09491
pull
Entries 87
Mean 598.1
Std Dev 0
pull1D
Entries 87
Mean 0.007527
Std Dev 0.9226

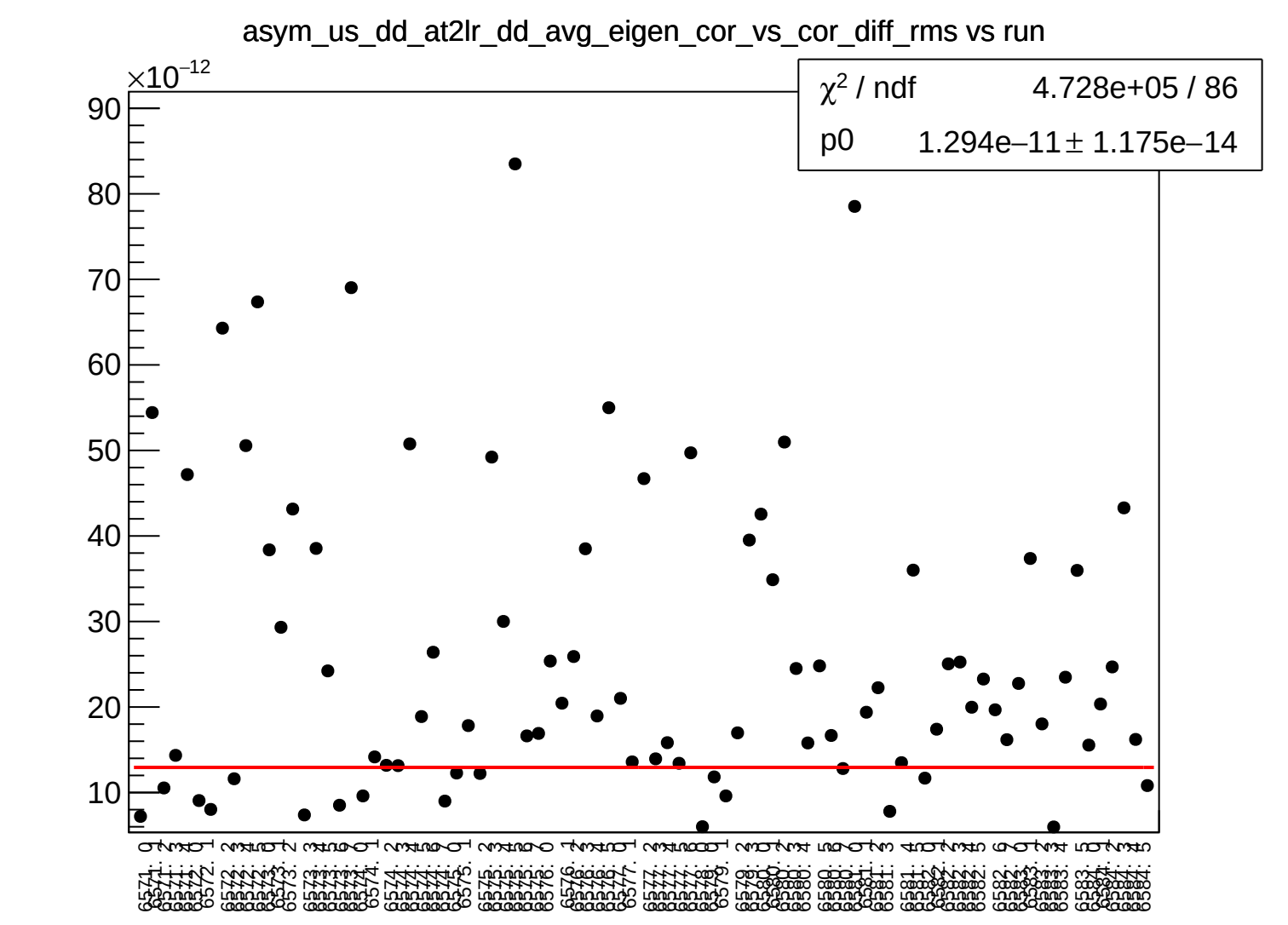

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.876e+05 / 86
p0 76.5 ± 0.06711
200
180
160
140
120
100
80
60
40
20

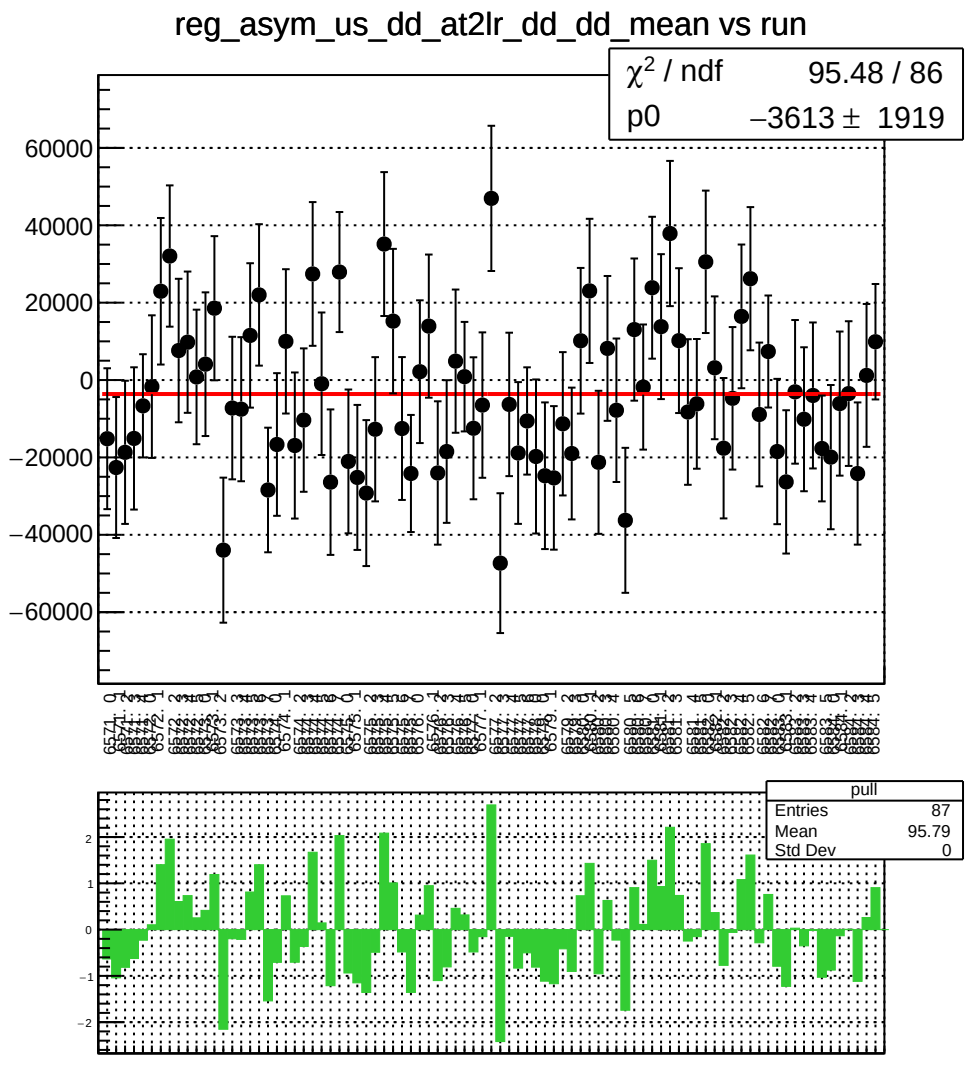

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.06 / 86
p0 −0.02231 ± 0.09491
pull
Entries 87
Mean 598.1
Std Dev 0
pull1D
Entries 87
Mean 0.007527
Std Dev 0.9226

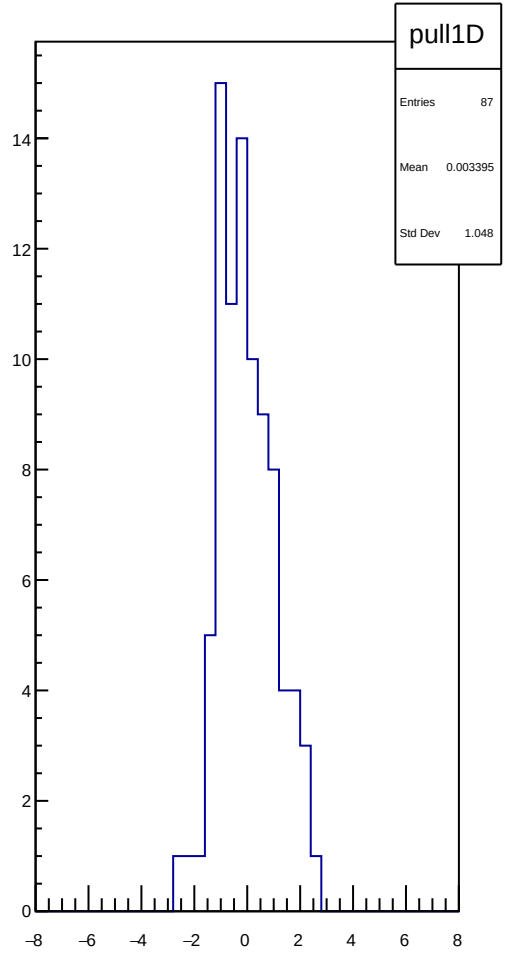

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.876e+05 / 86
p0 76.5 ± 0.06711
200
180
160
140
120
100
80
60
40
20

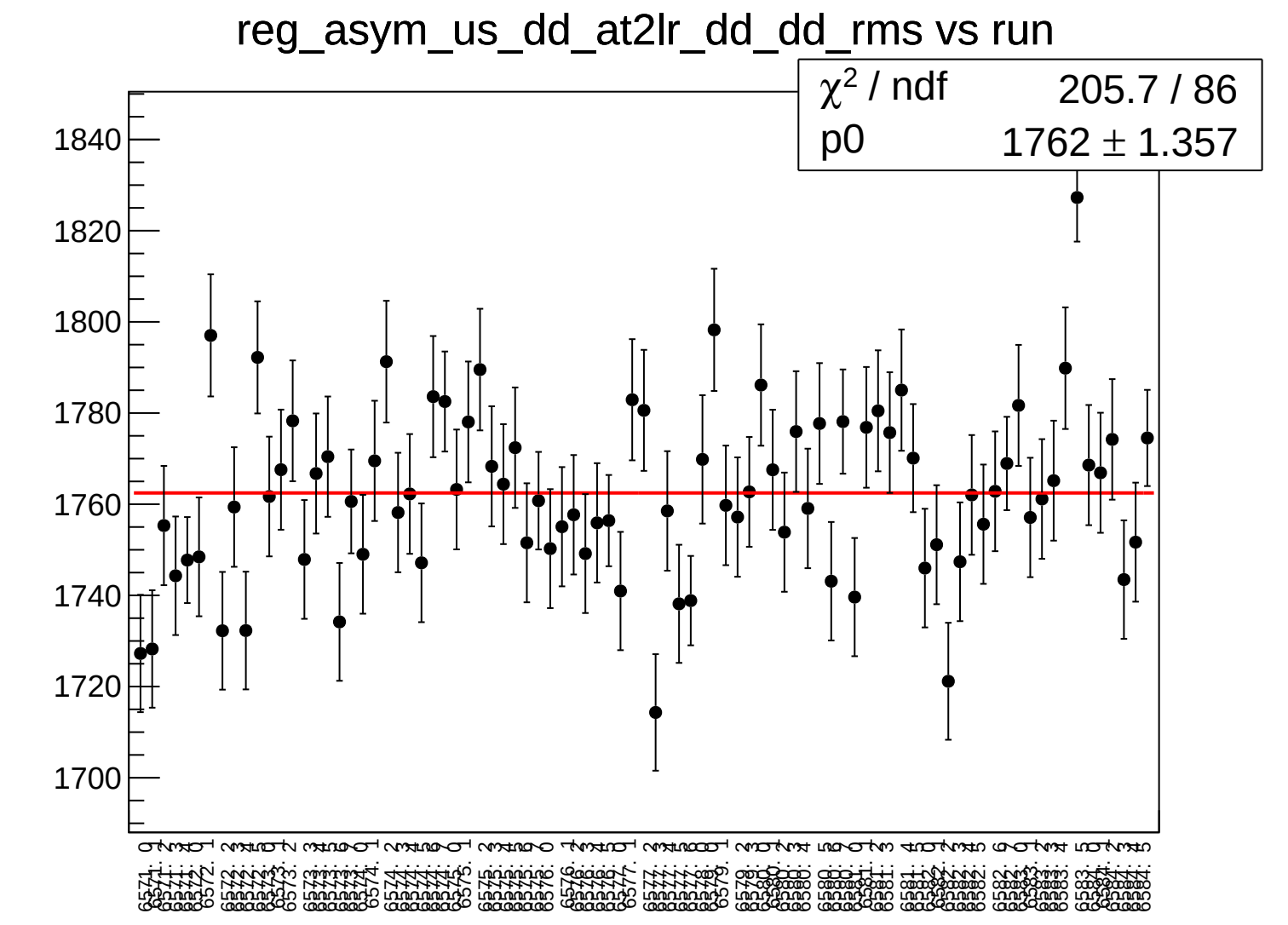

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.71 / 86
p0 2.002e−14 ± 1.661e−14
pull
Entries 87
Mean 45.14
Std Dev 34.28

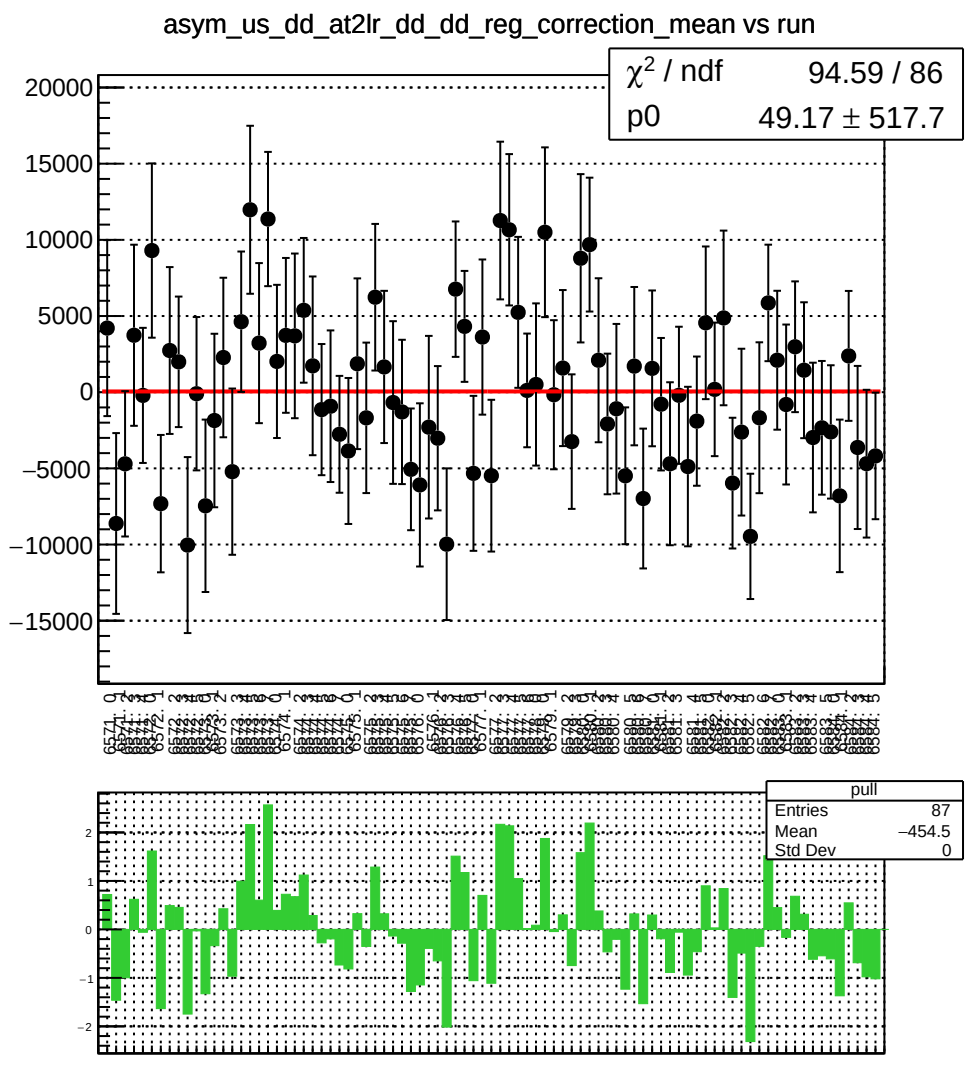

pull1D
Entries 87
Mean −0.08071
Std Dev 0.9477

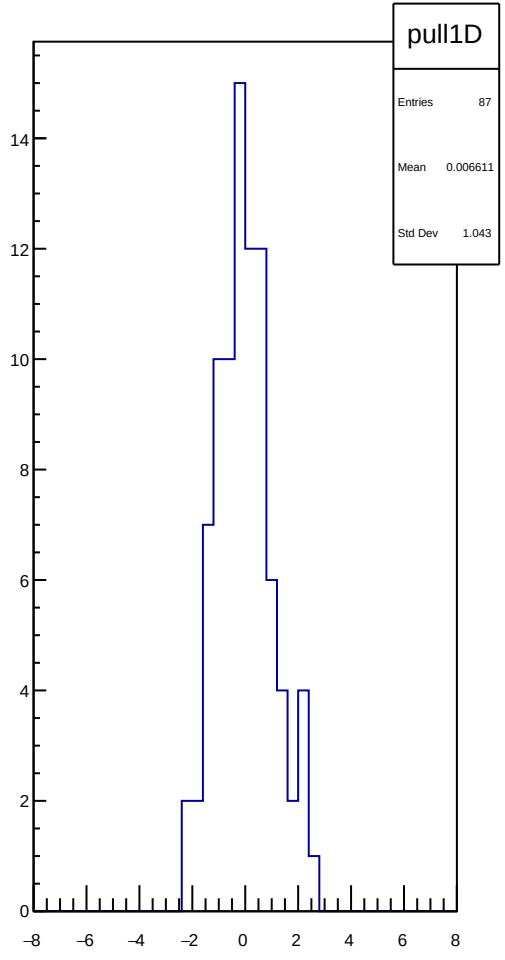

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.728e+05 / 86
p0 1.294e−11 ± 1.175e−14
90
80
70
60
50
40
30
20
10

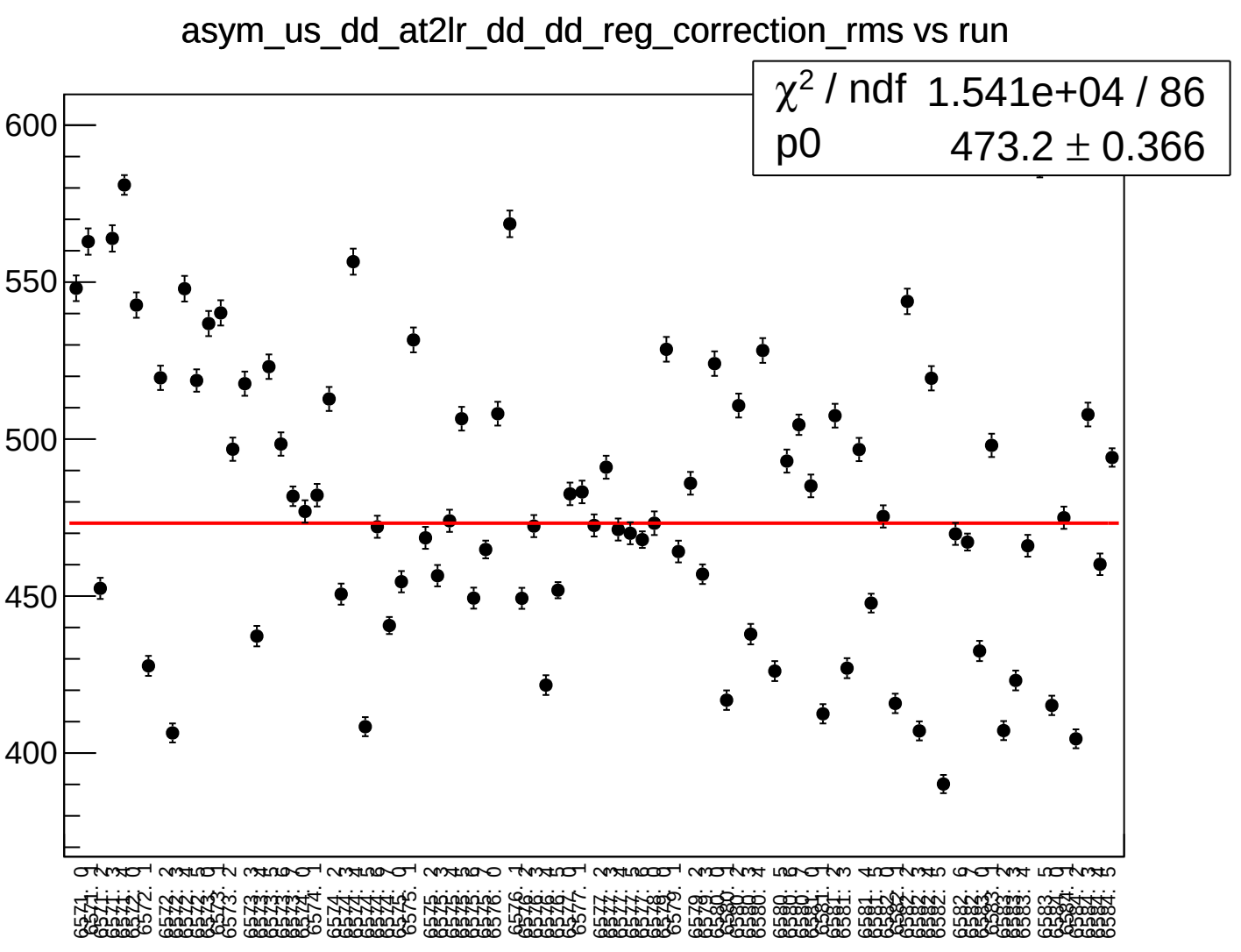

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 95.48 / 86
p0 −3613 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 95.79
Std Dev 0
2
1
0
−1
−2

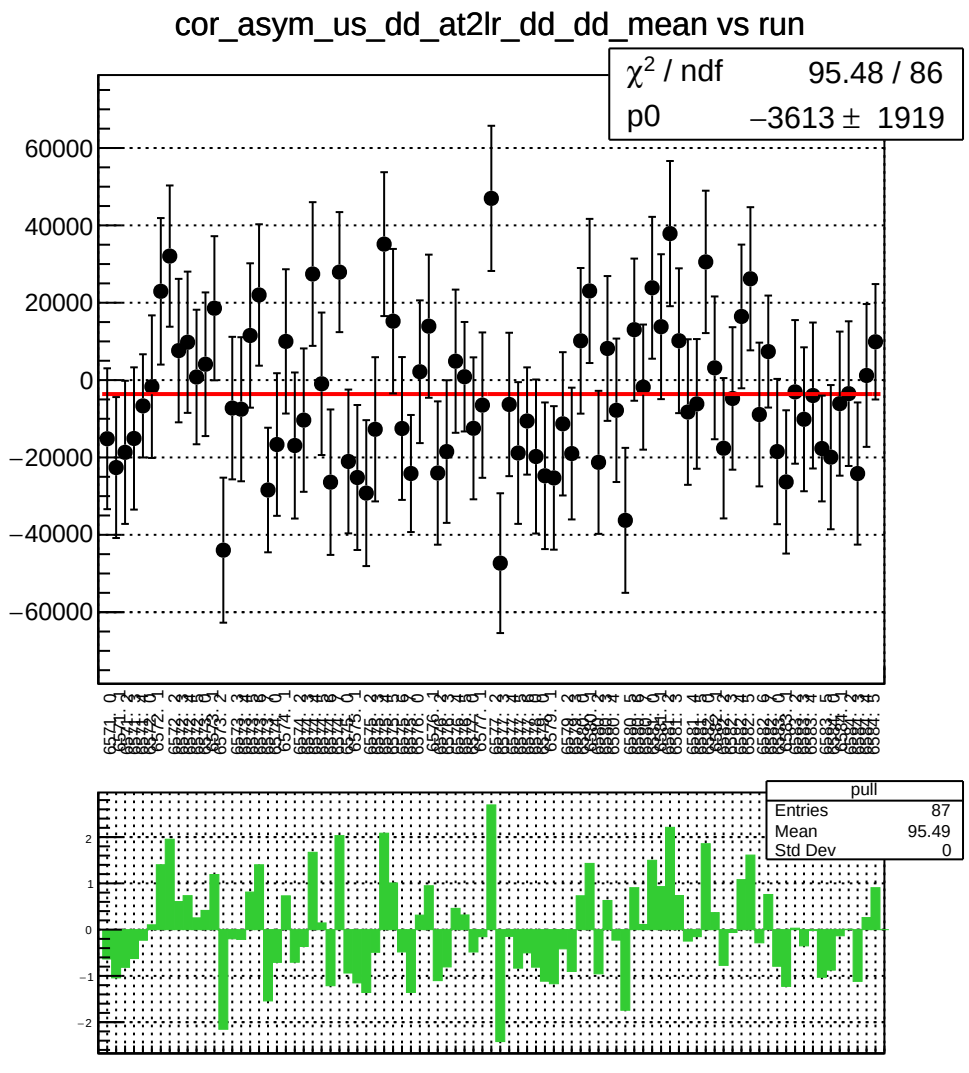

pull1D
Entries 87
Mean 0.003395
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

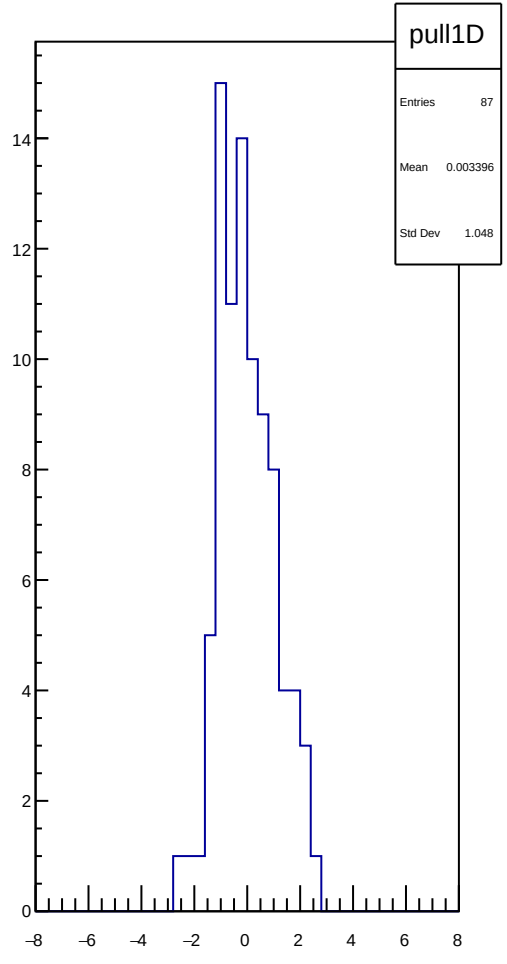

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 205.7 / 86
p0 1762 ± 1.357
1840
1820
1800
1780
1760
1740
1720
1700

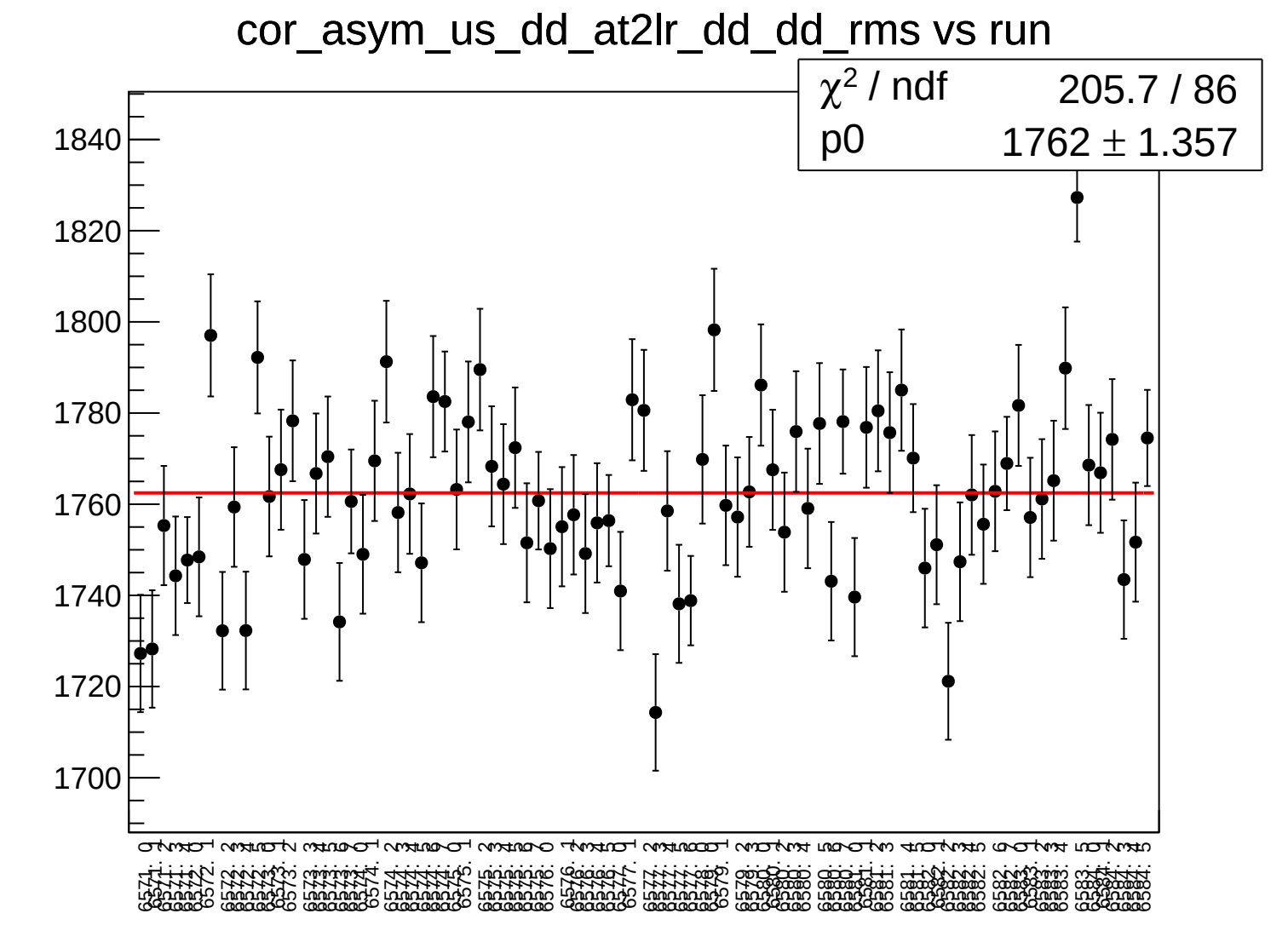

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 94.59 / 86
p0 49.17 ± 517.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −454.5
Std Dev 0
2
1
0
−1
−2

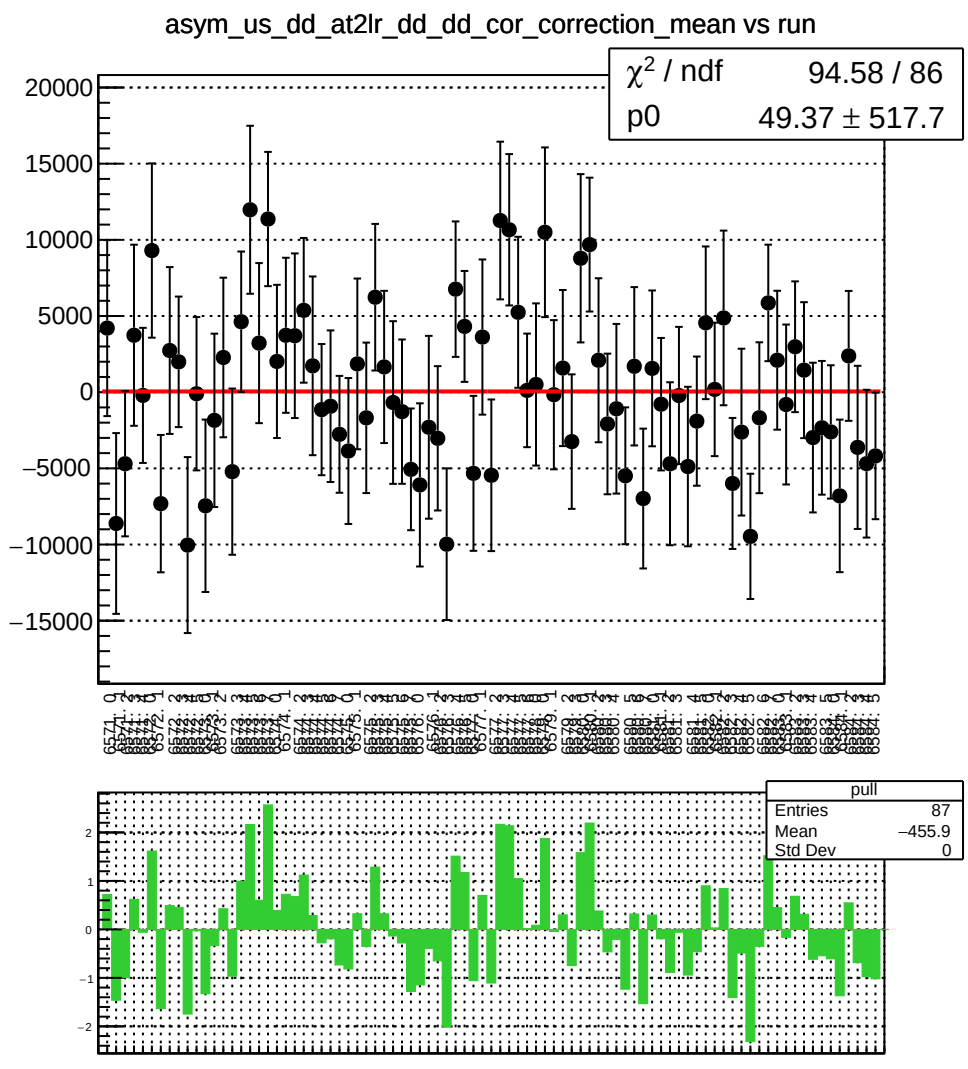

pull1D
Entries 87
Mean 0.006611
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

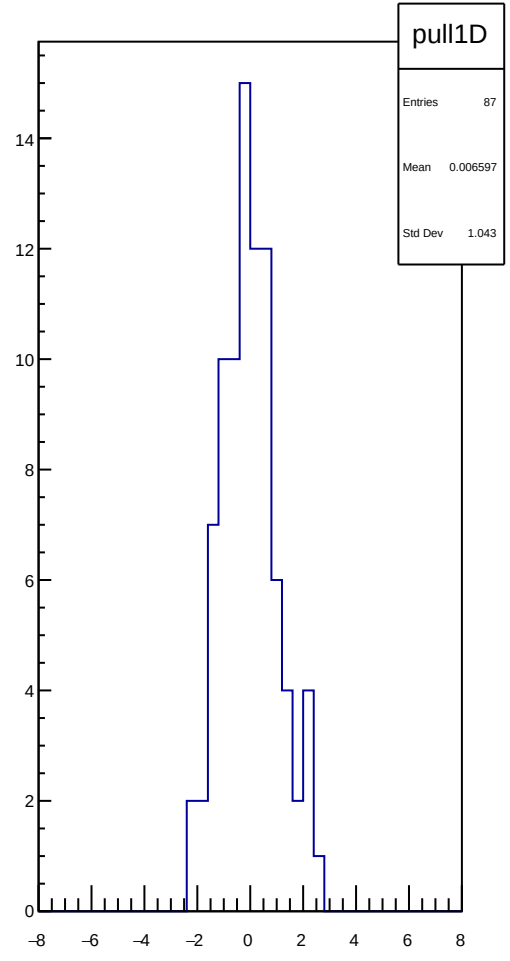

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.541e+04 / 86
p0 473.2 ± 0.366
600
550
500
450
400

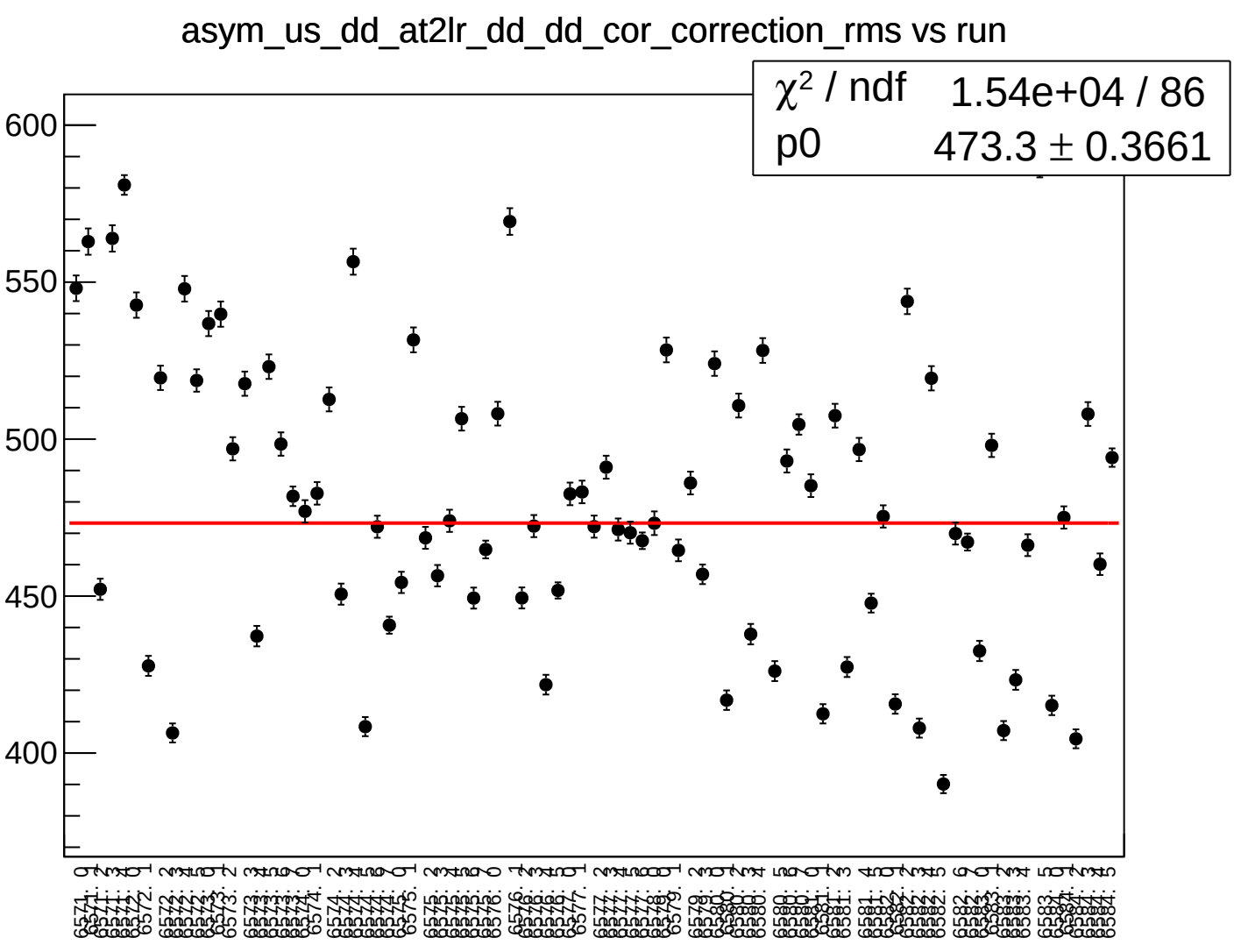

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 95.48 / 86
p0 −3613 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 95.49
Std Dev 0
2
1
0
−1
−2

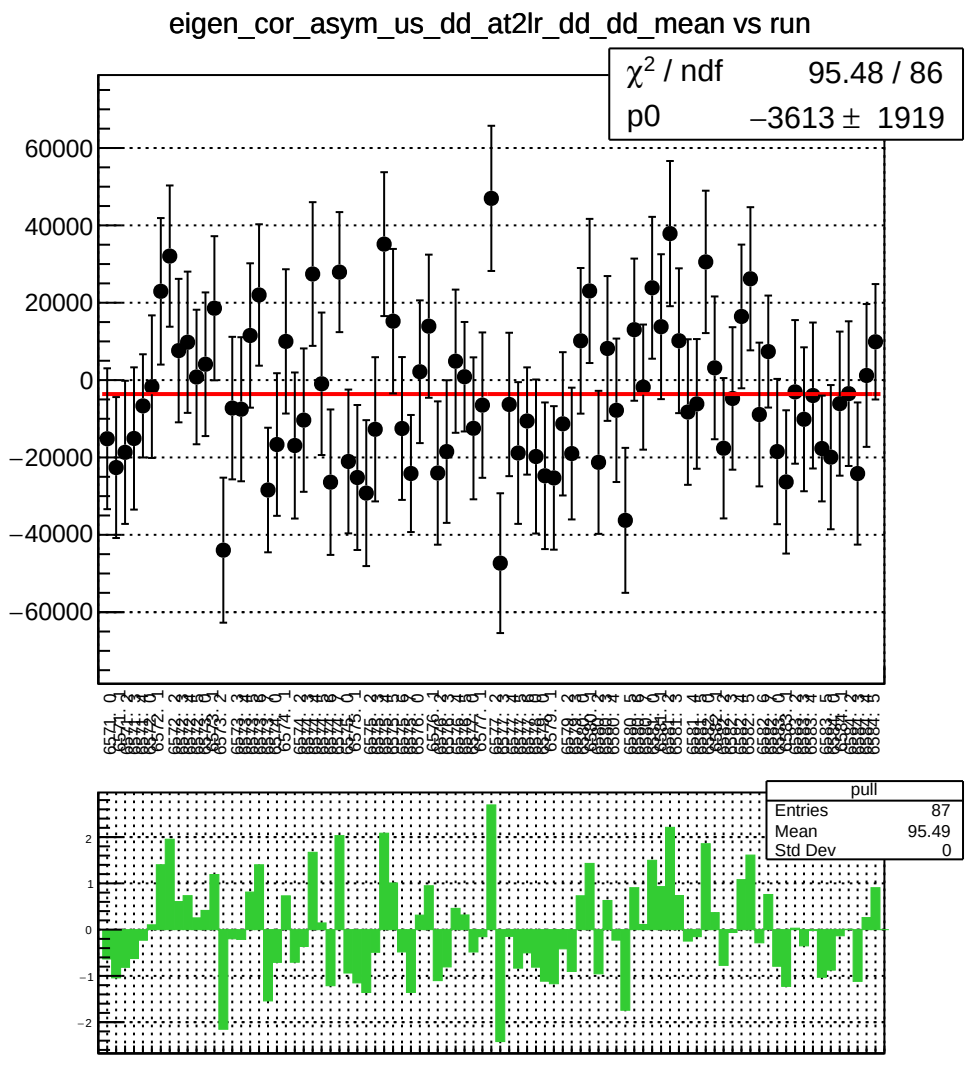

pull1D
Entries 87
Mean 0.003396
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

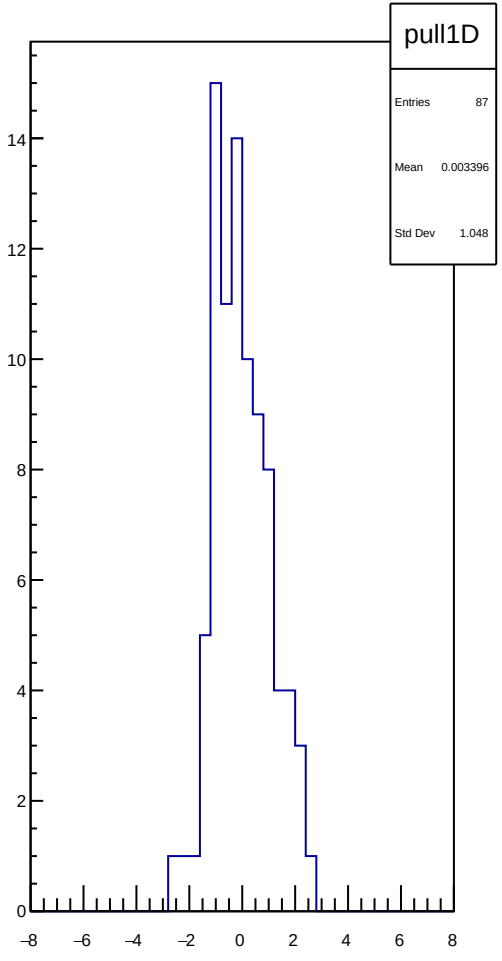

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 205.7 / 86
p0 1762 ± 1.357
1840
1820
1800
1780
1760
1740
1720
1700

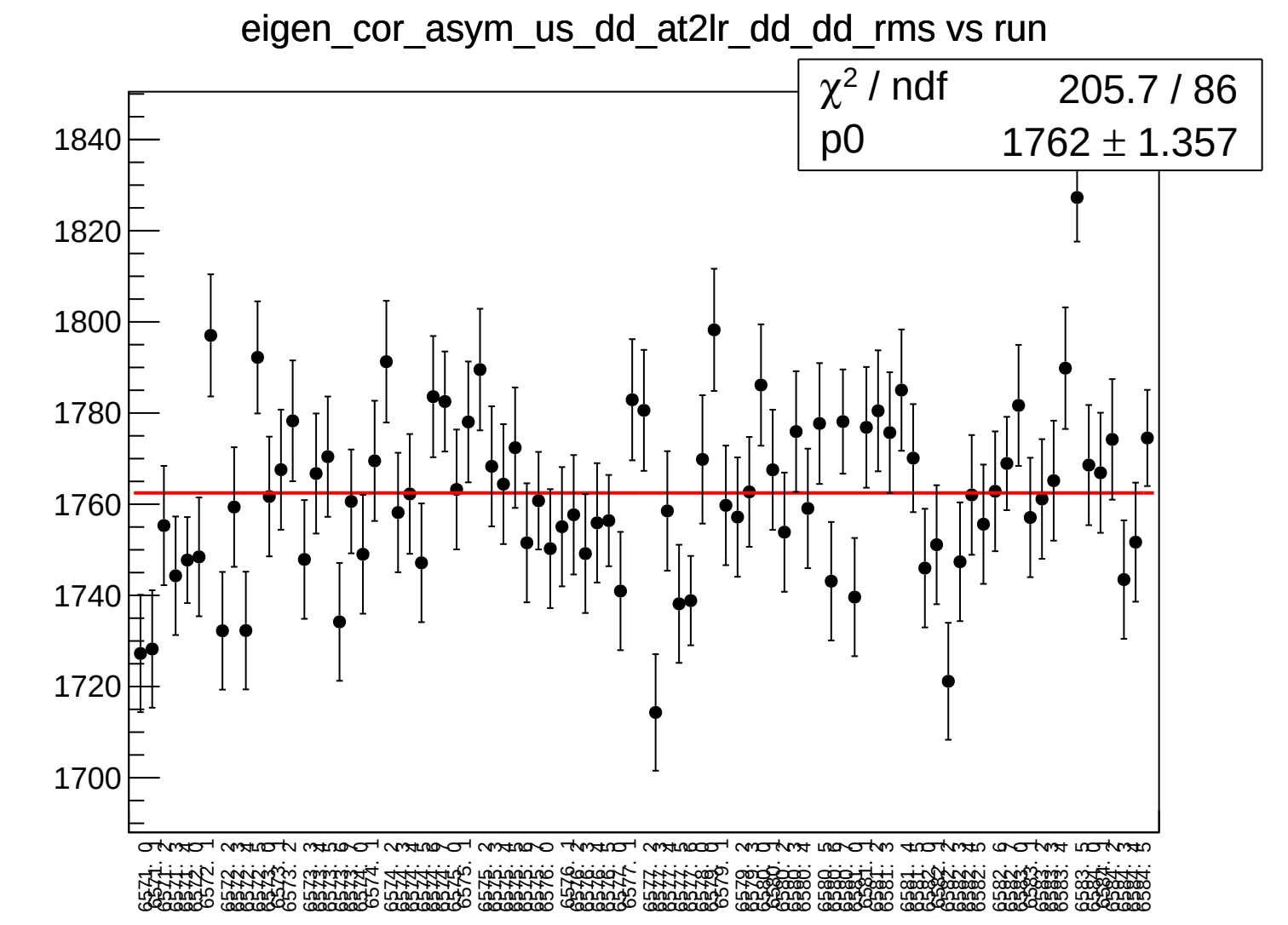

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 94.58 / 86
p0 49.37 ± 517.7
pull
Entries 87
Mean −455.9
Std Dev 0

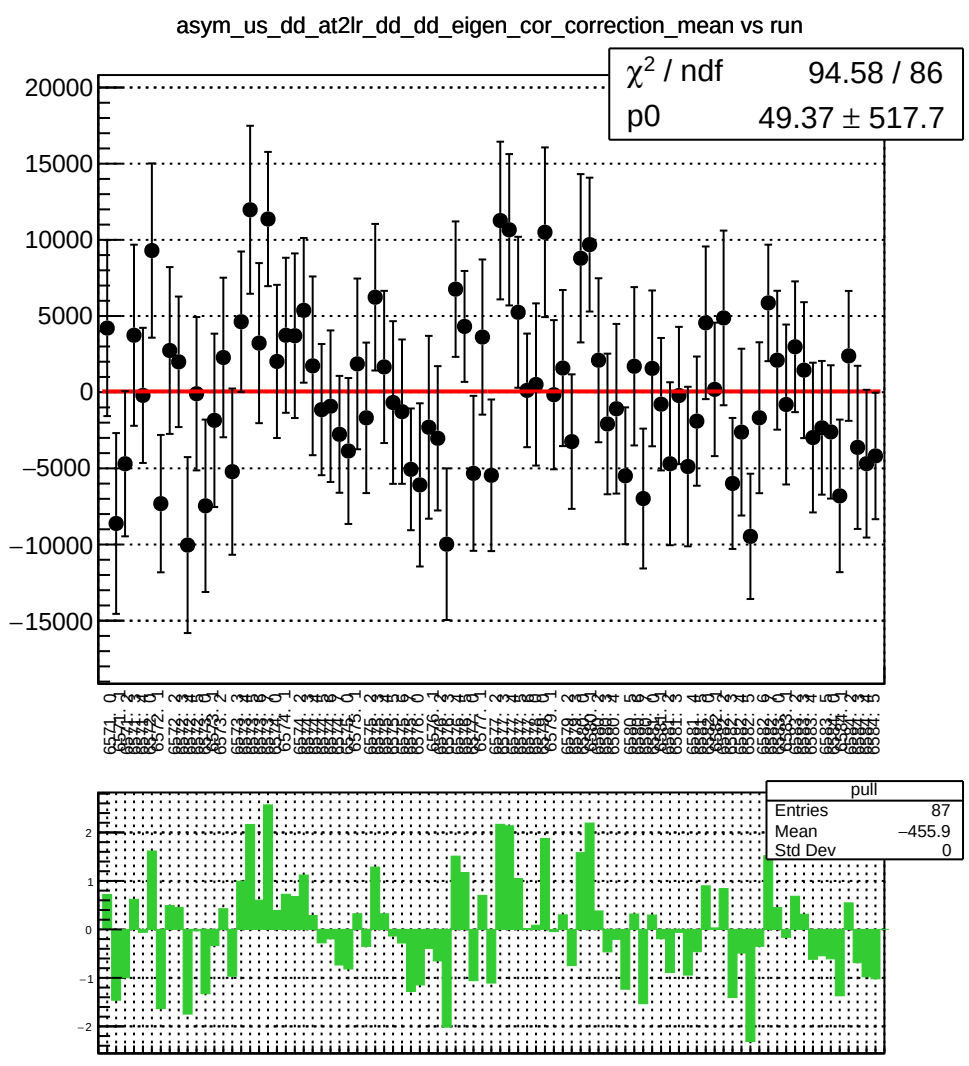

pull1D
Entries 87
Mean 0.006597
Std Dev 1.043

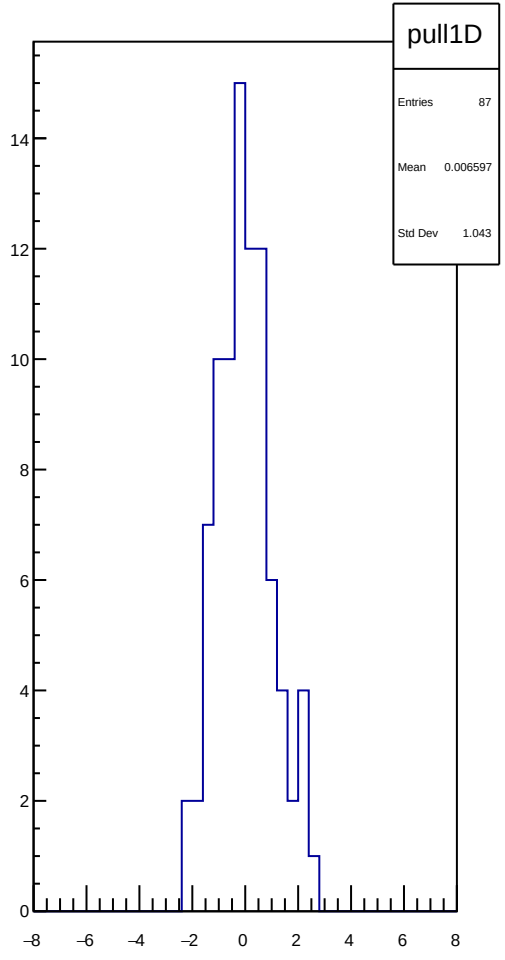

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.54e+04 / 86
p0 473.3 ± 0.3661
600
550
500
450
400

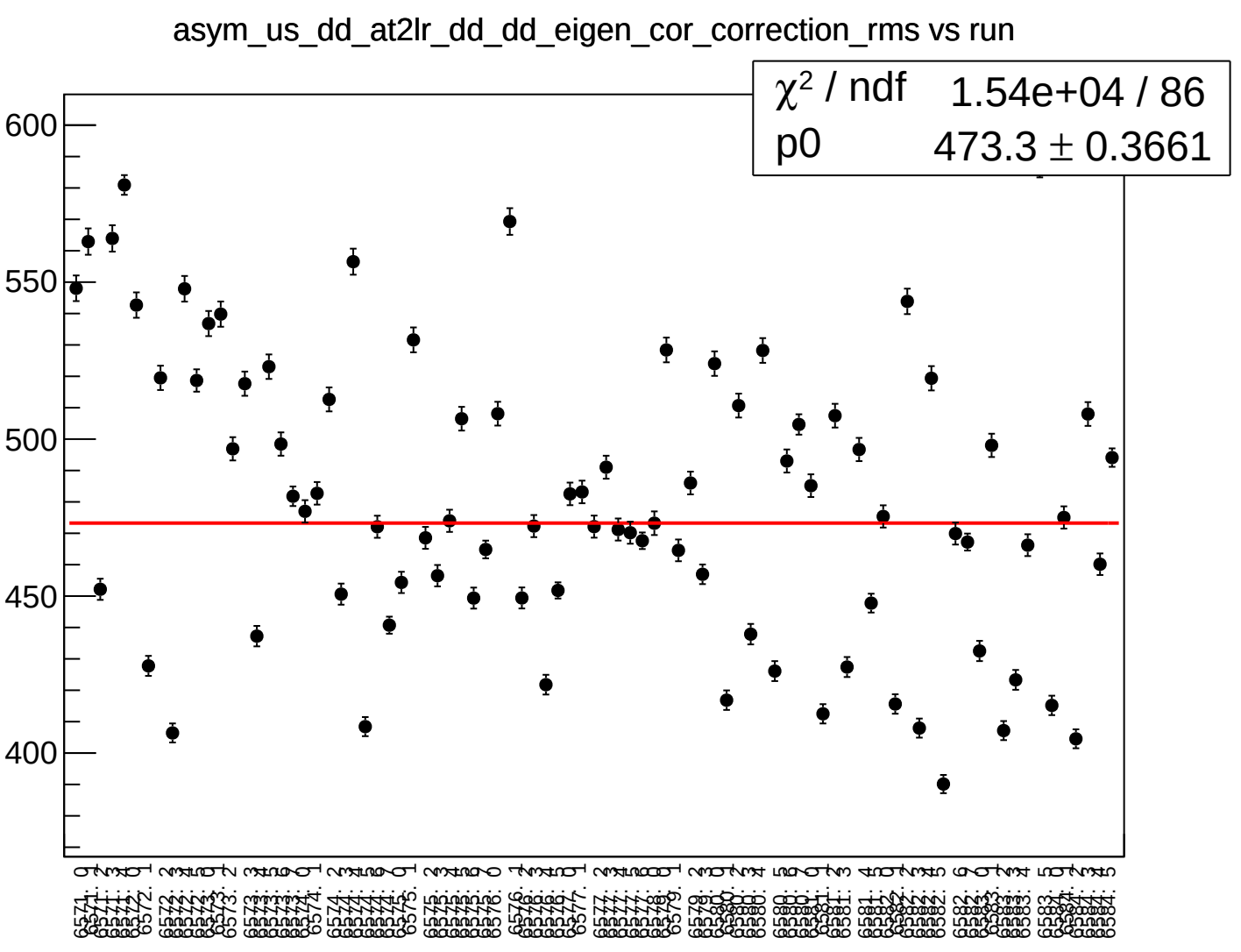

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 95.48 / 86
p0 −3613 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 95.49
Std Dev 0
2
1
0
−1
−2

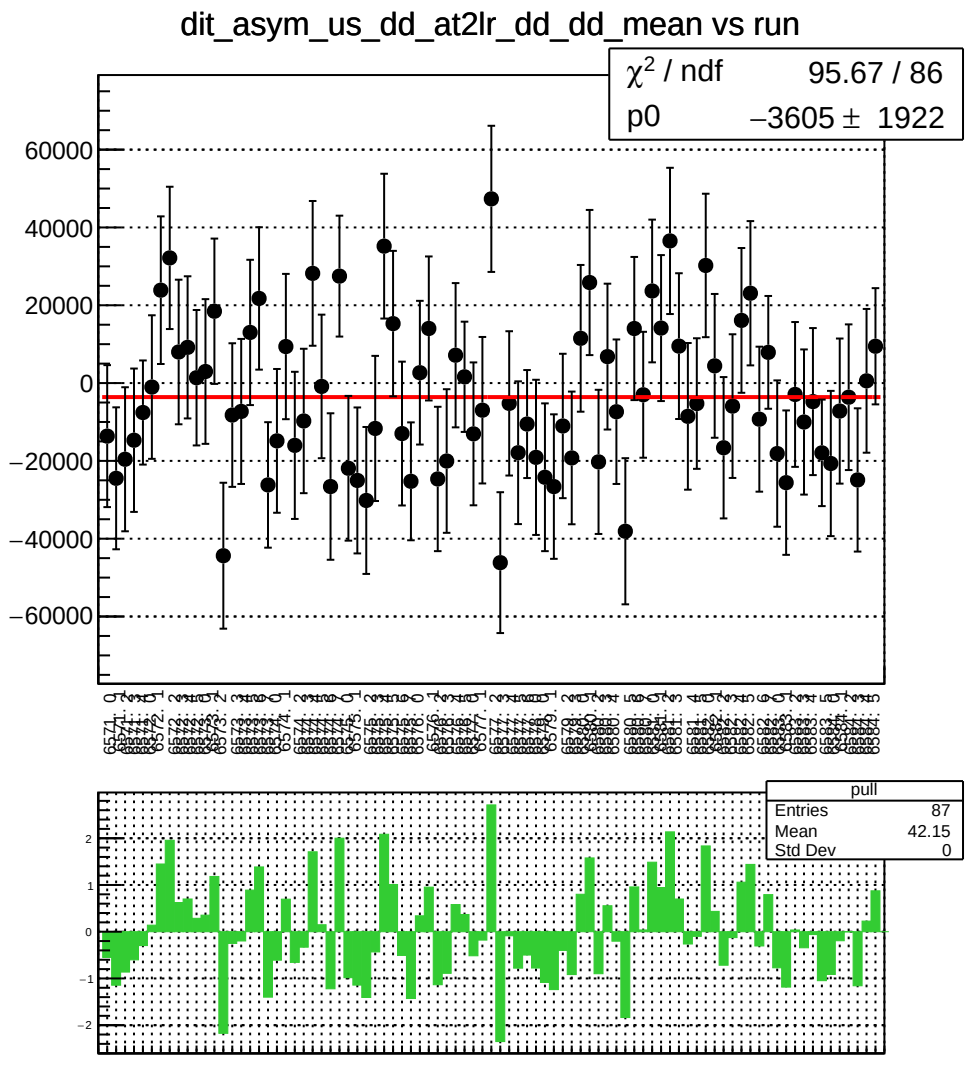

pull1D
Entries 87
Mean 0.003396
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

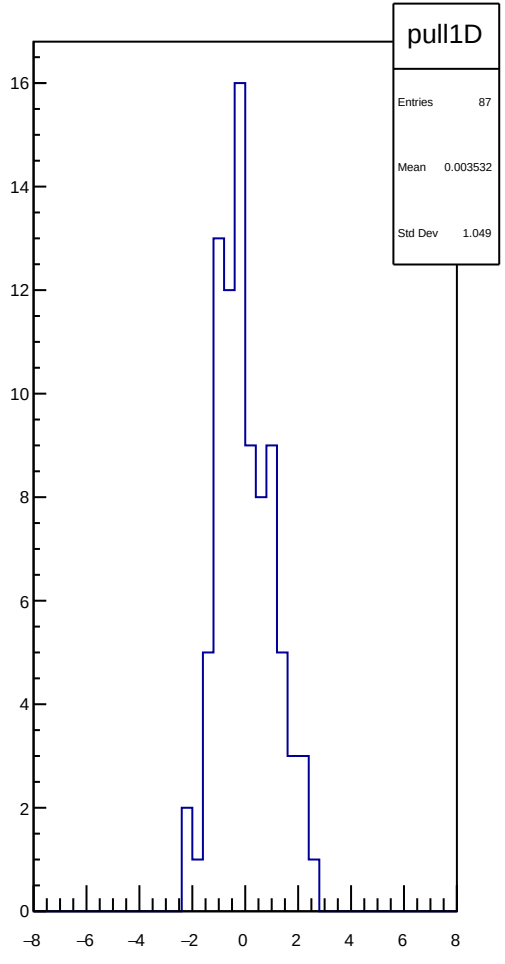

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 205.7 / 86
p0 1762 ± 1.357
1840
1820
1800
1780
1760
1740
1720
1700

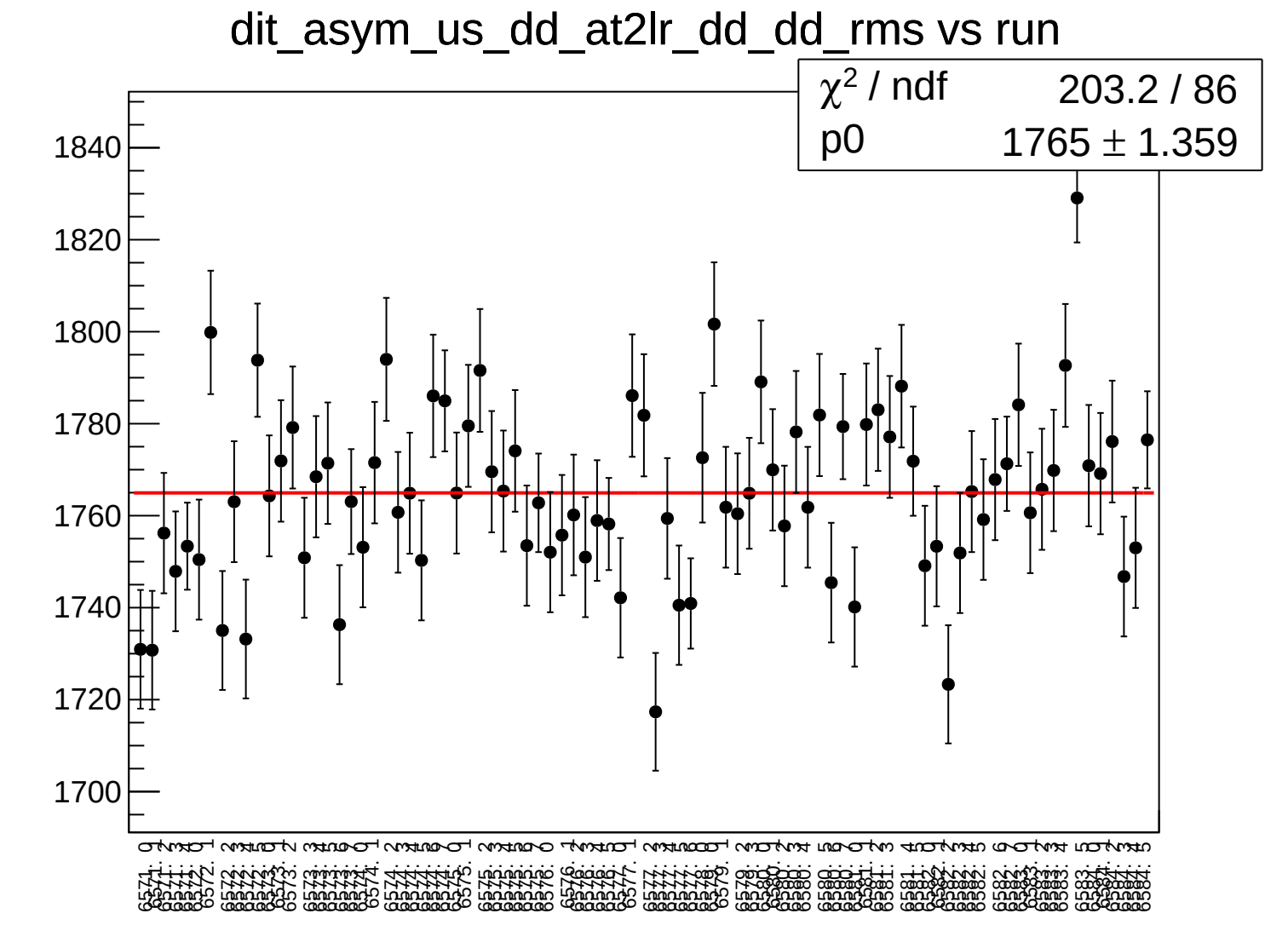

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.58 / 86
p0 49.37 ± 517.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −455.9
Std Dev 0
2
1
0
−1
−2

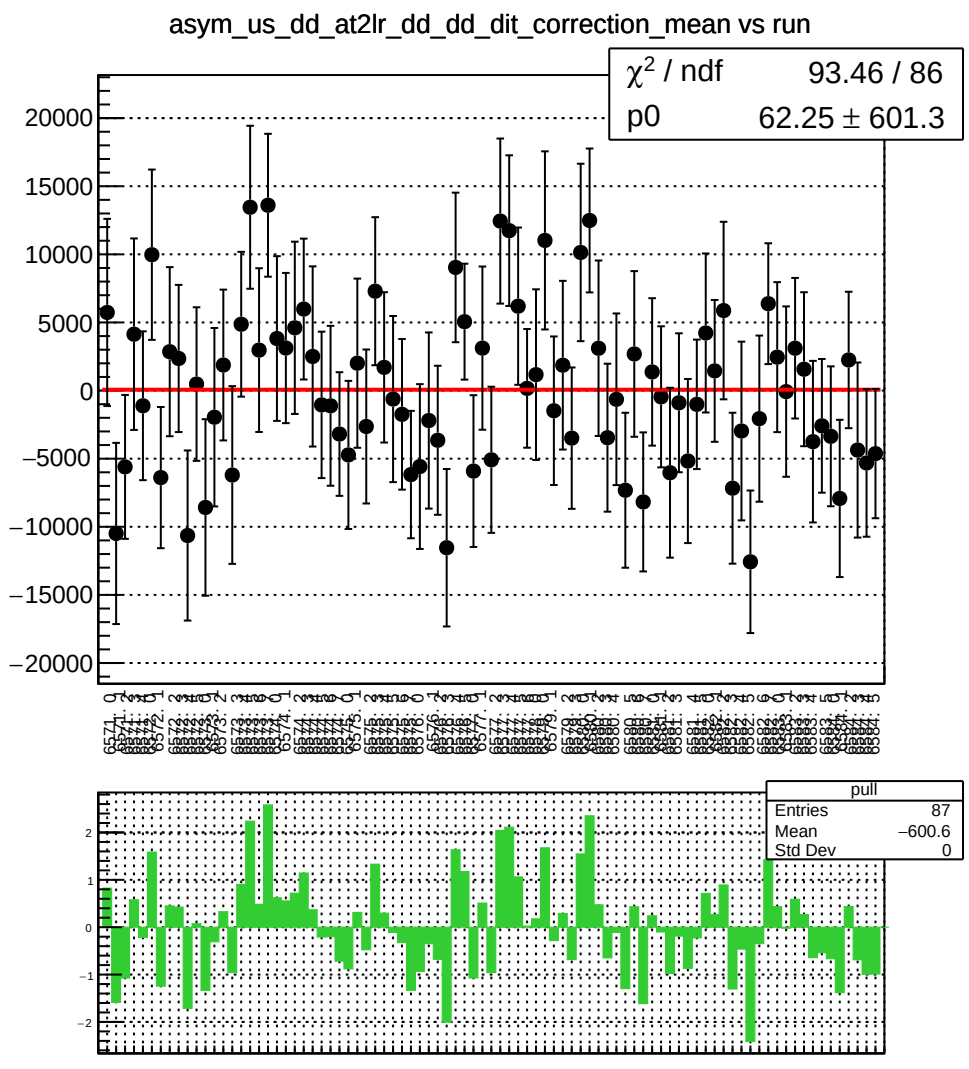

pull1D
Entries 87
Mean 0.006597
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

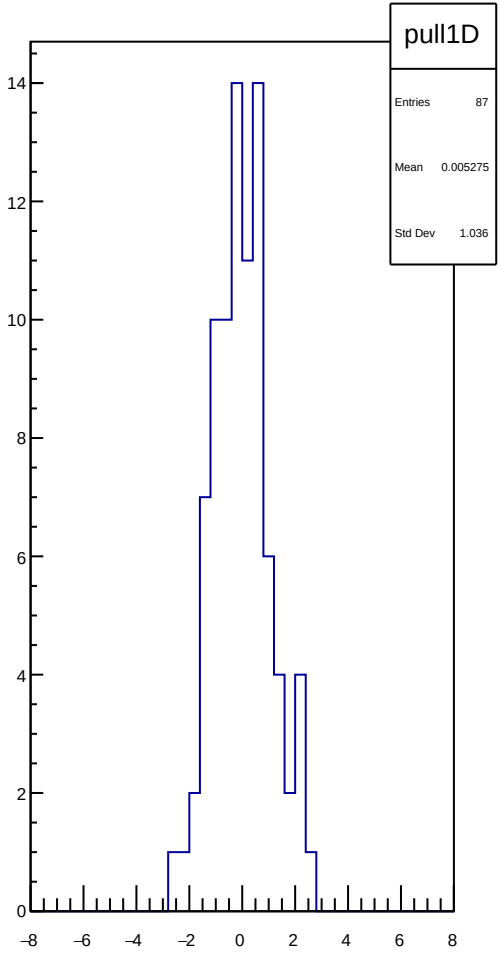

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.54e+04 / 86
p0 473.3 ± 0.3661
600
550
500
450
400

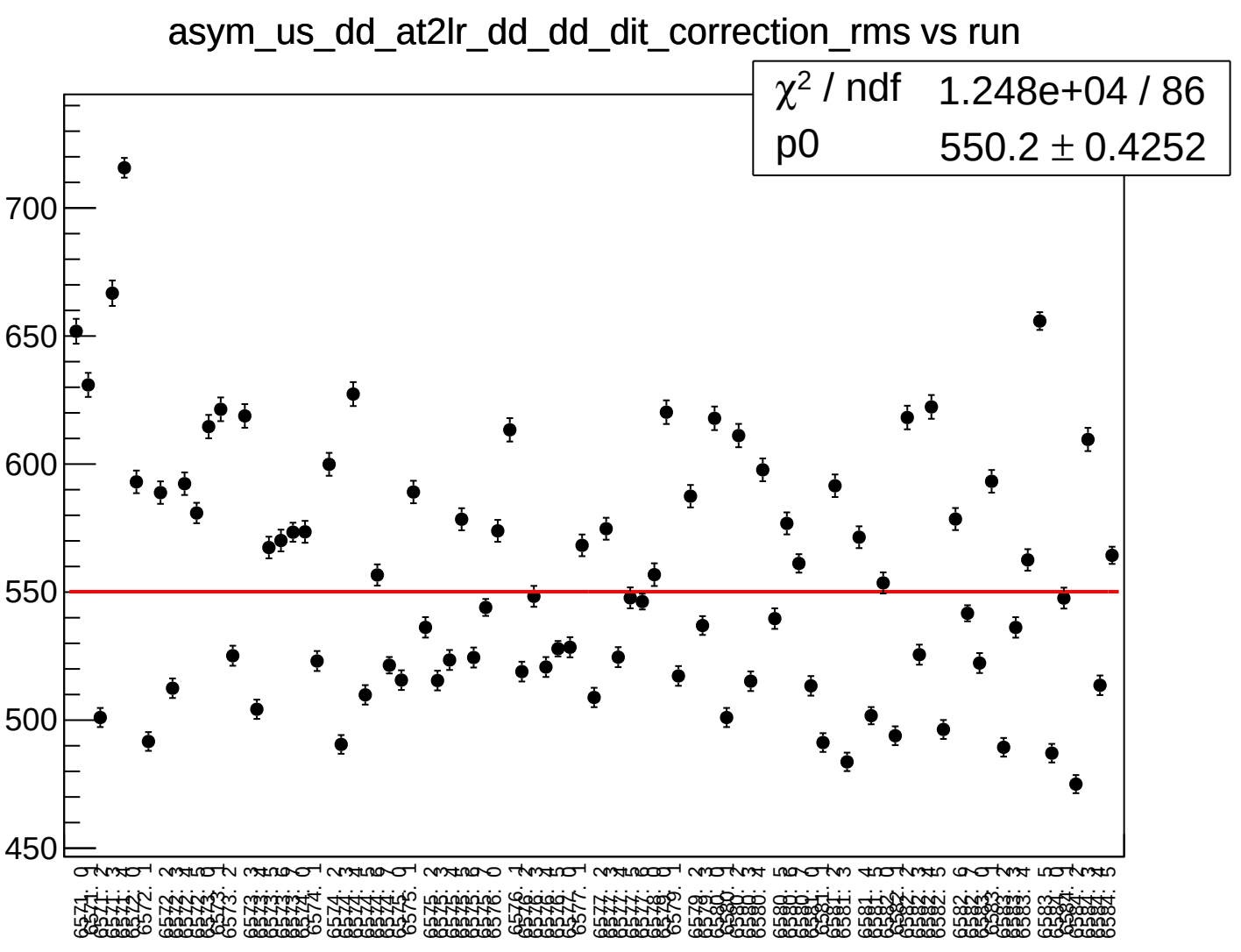

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 95.67 / 86
p0 −3605 ± 1922
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 42.15
Std Dev 0
2
1
0
−1
−2

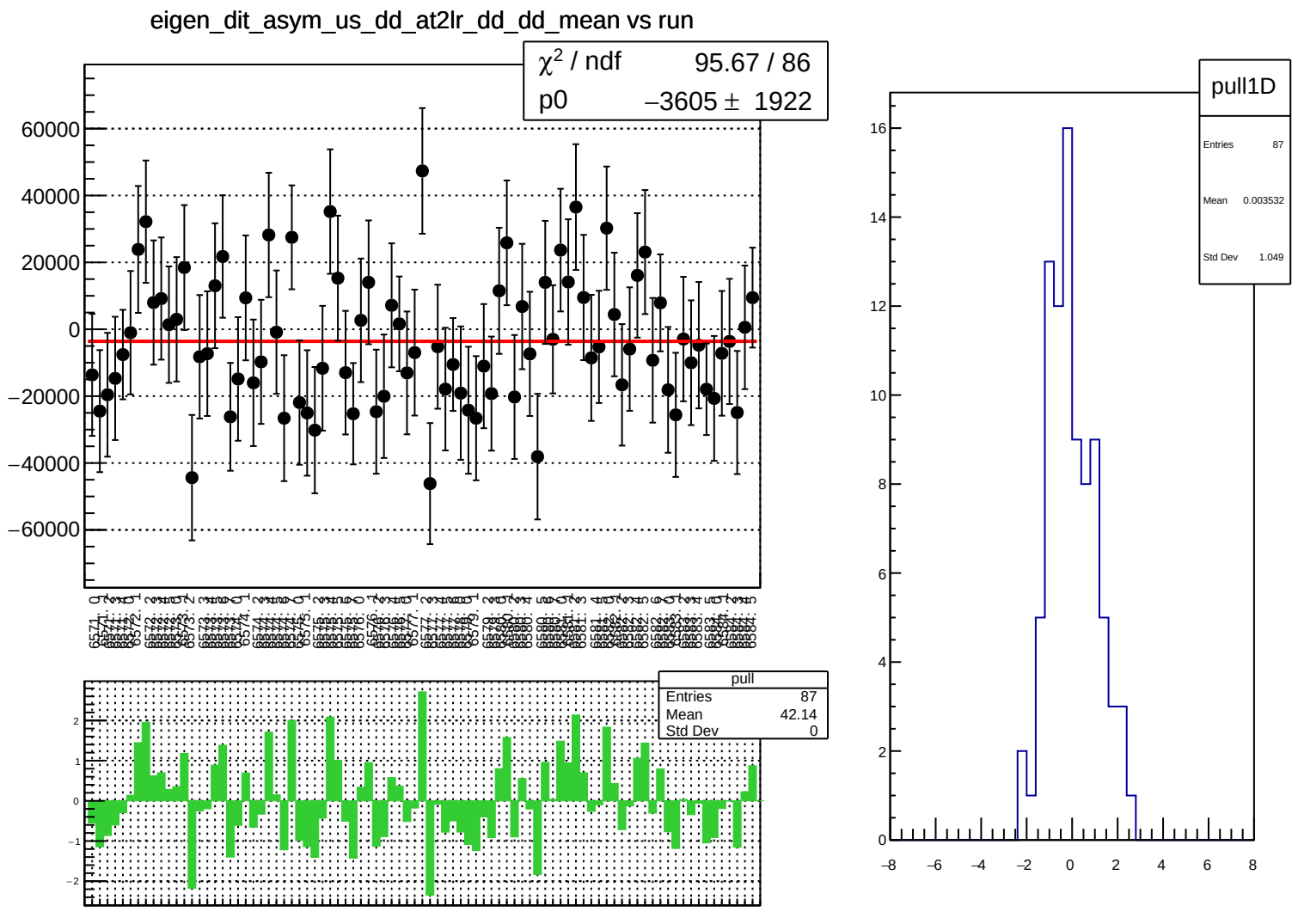

pull1D
Entries 87
Mean 0.003532
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

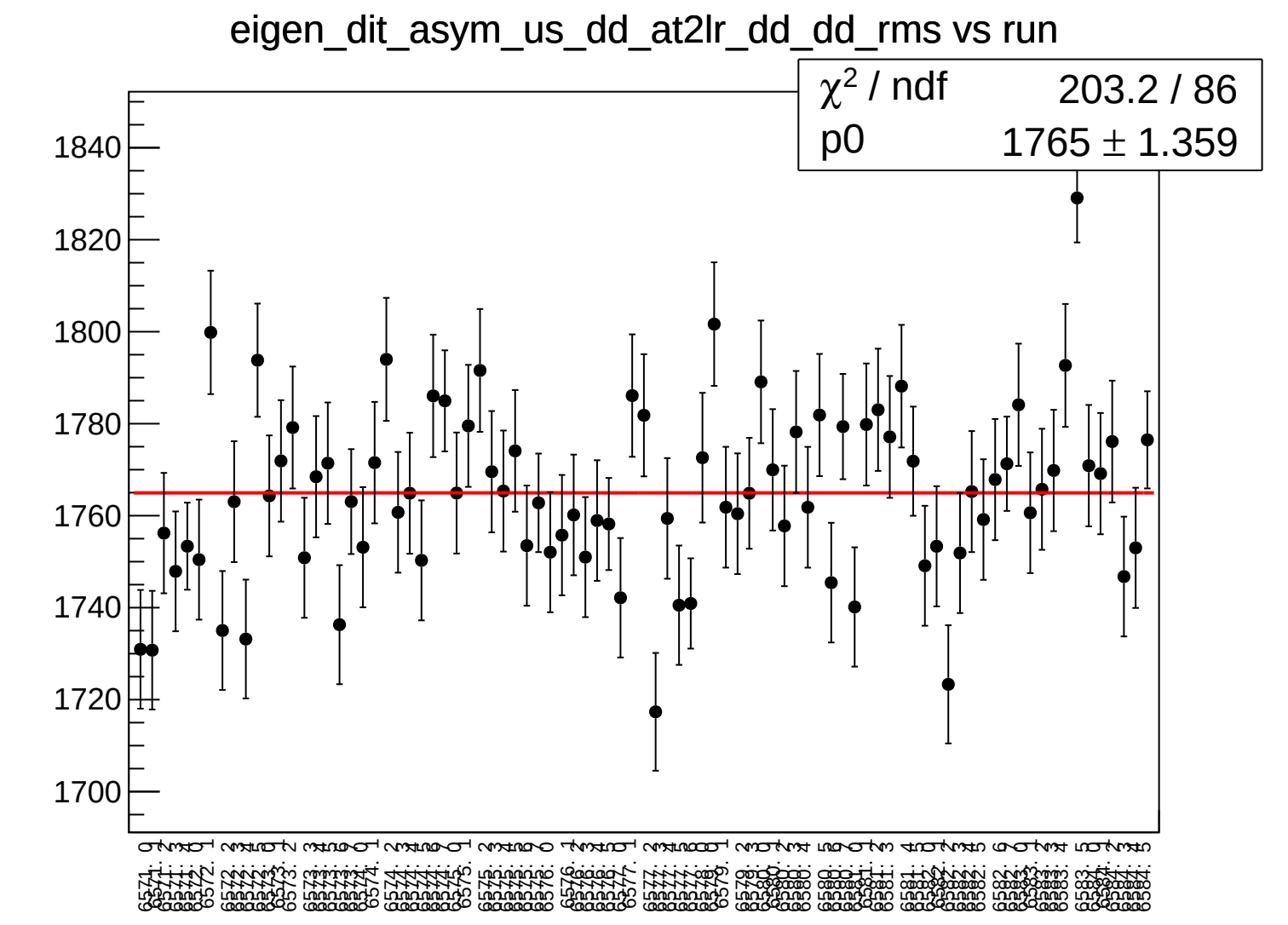

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 203.2 / 86
p0 1765 ± 1.359
1840
1820
1800
1780
1760
1740
1720
1700

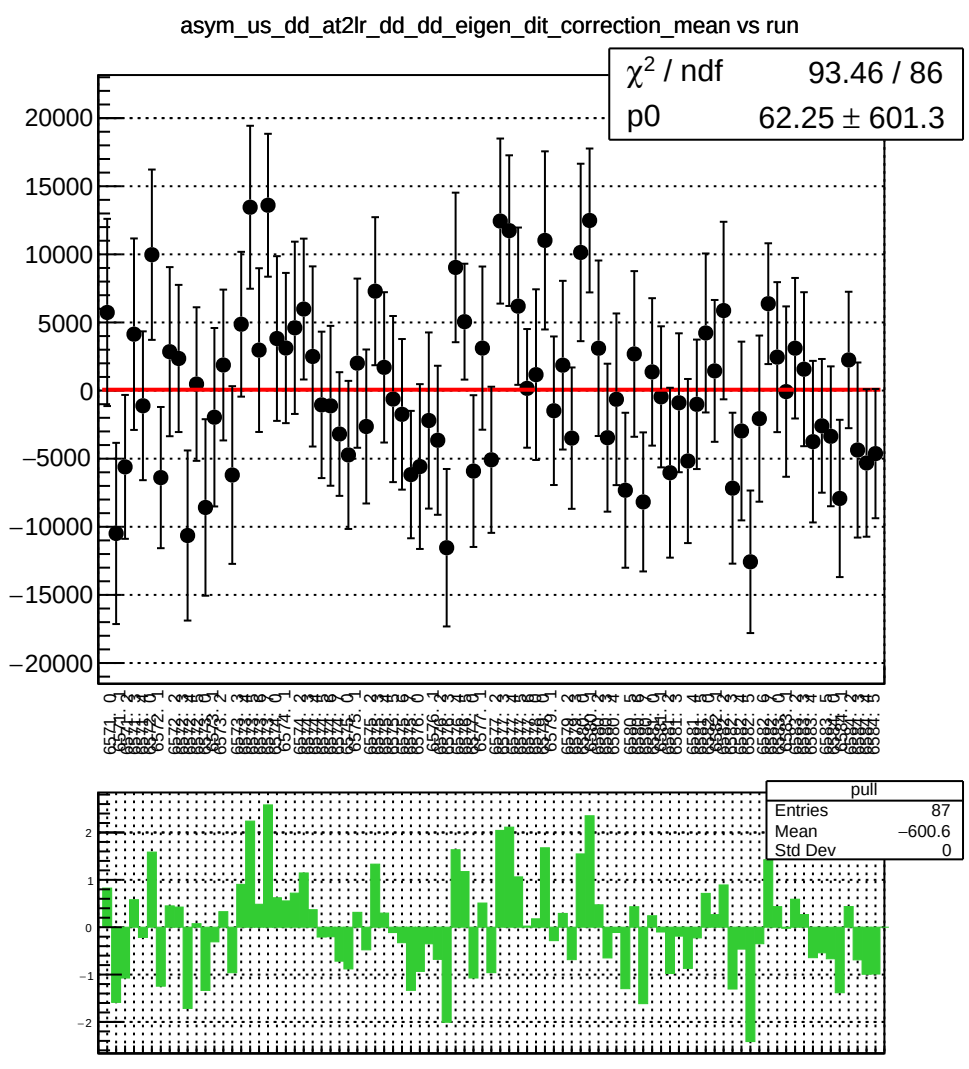

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 93.46 / 86
p0 62.25 ± 601.3
pull
Entries 87
Mean −600.6
Std Dev 0

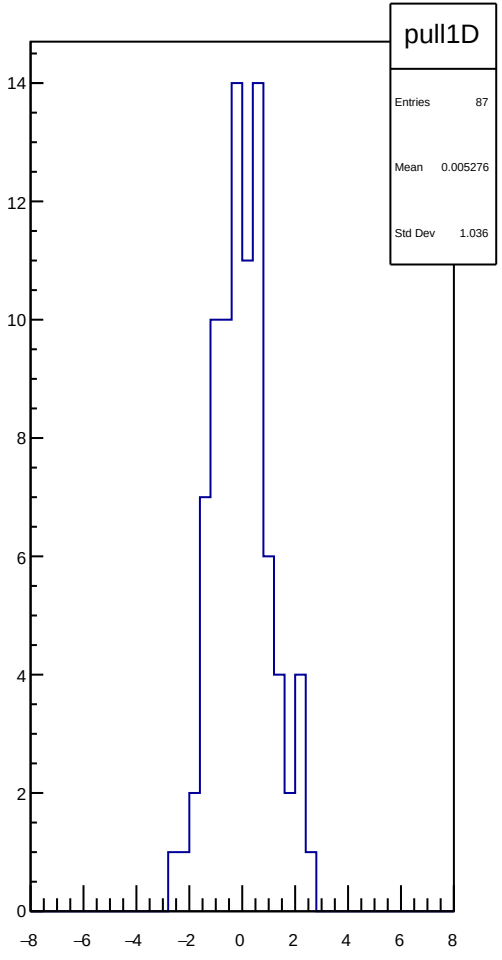

pull1D
Entries 87
Mean 0.005275
Std Dev 1.036

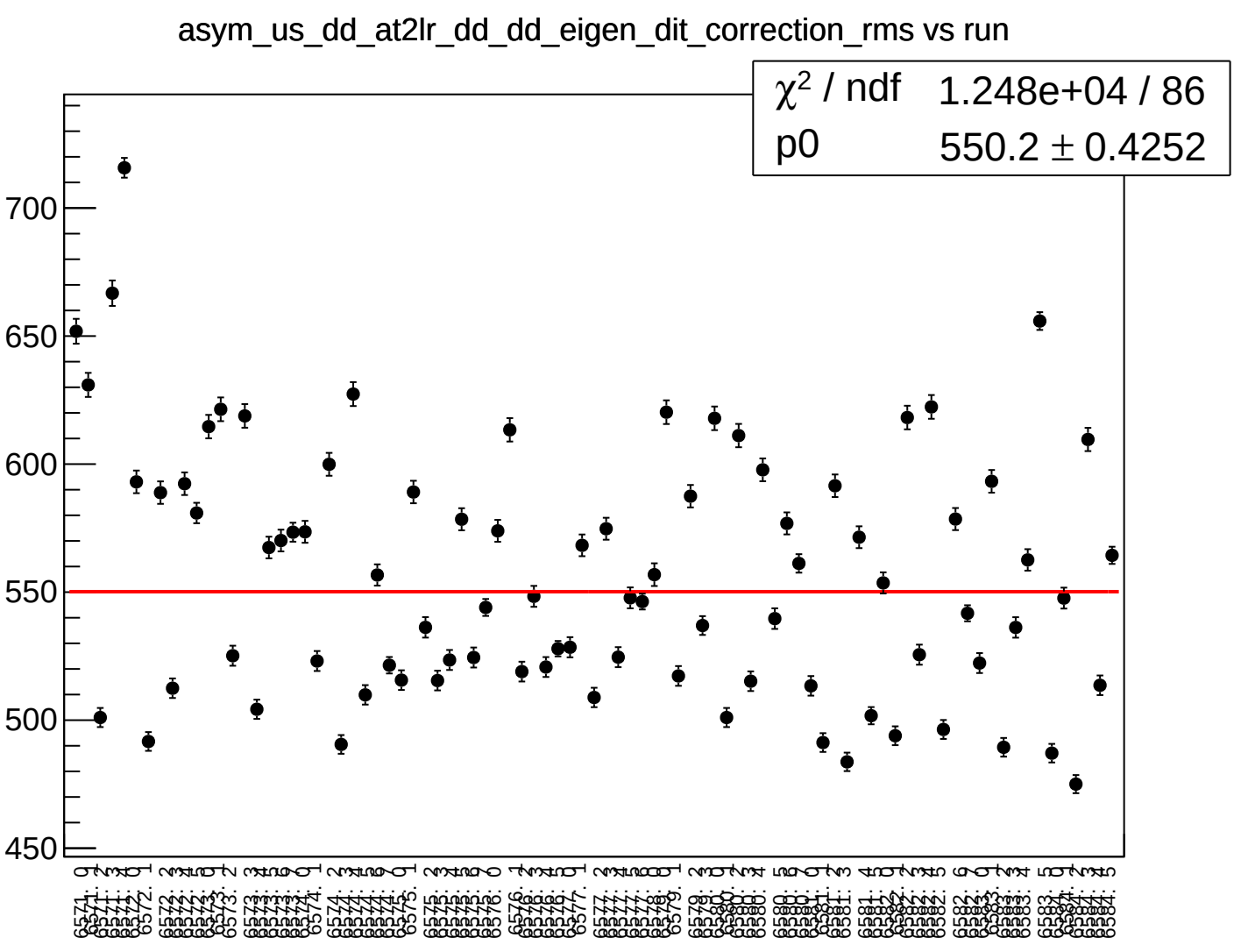

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.248e+04 / 86
p0 550.2 ± 0.4252
700
650
600
550
500
450

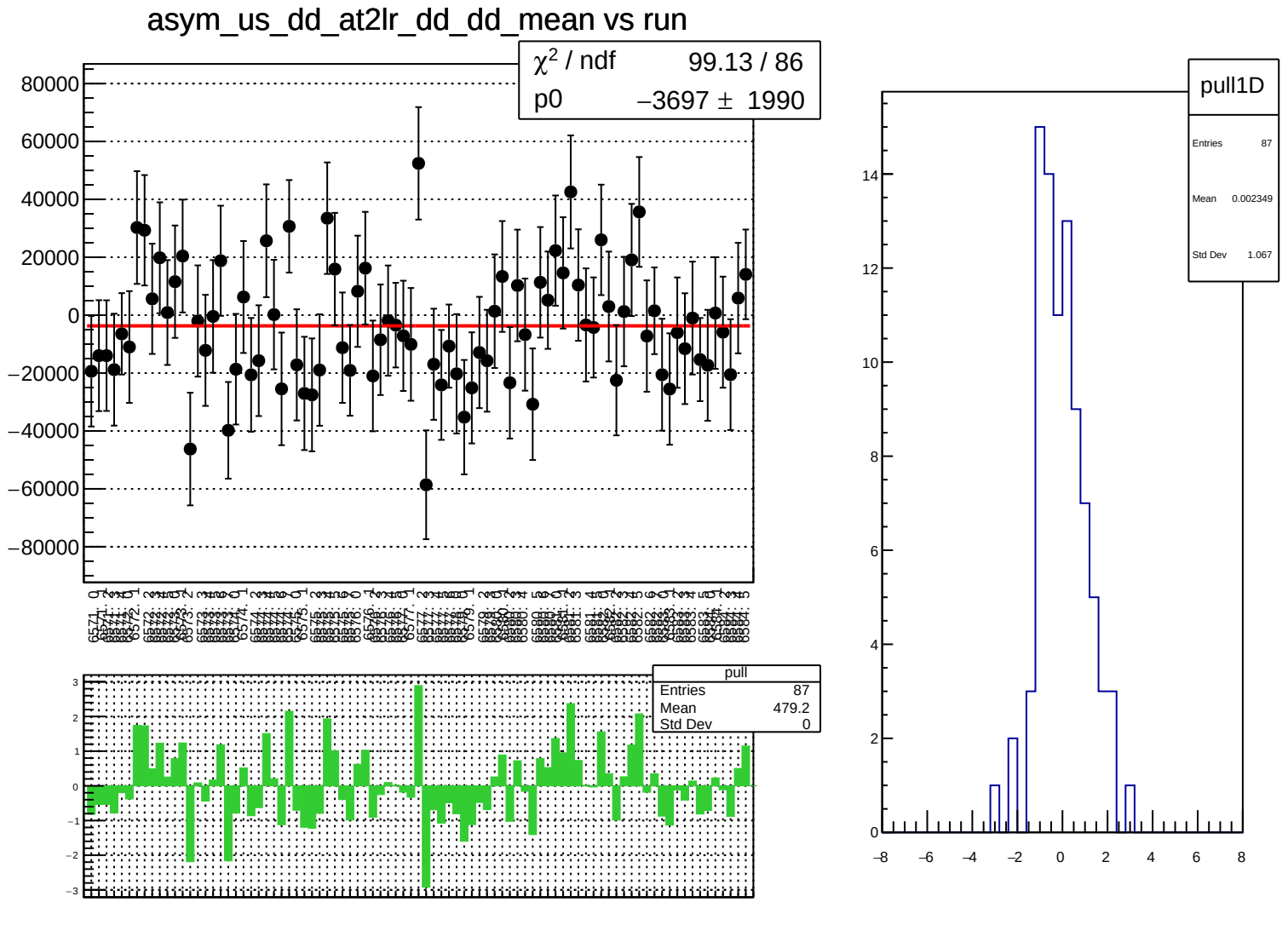

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 95.67 / 86
p0 −3605 ± 1922
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 42.14
Std Dev 0
pull1D
Entries 87
Mean 0.003532
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

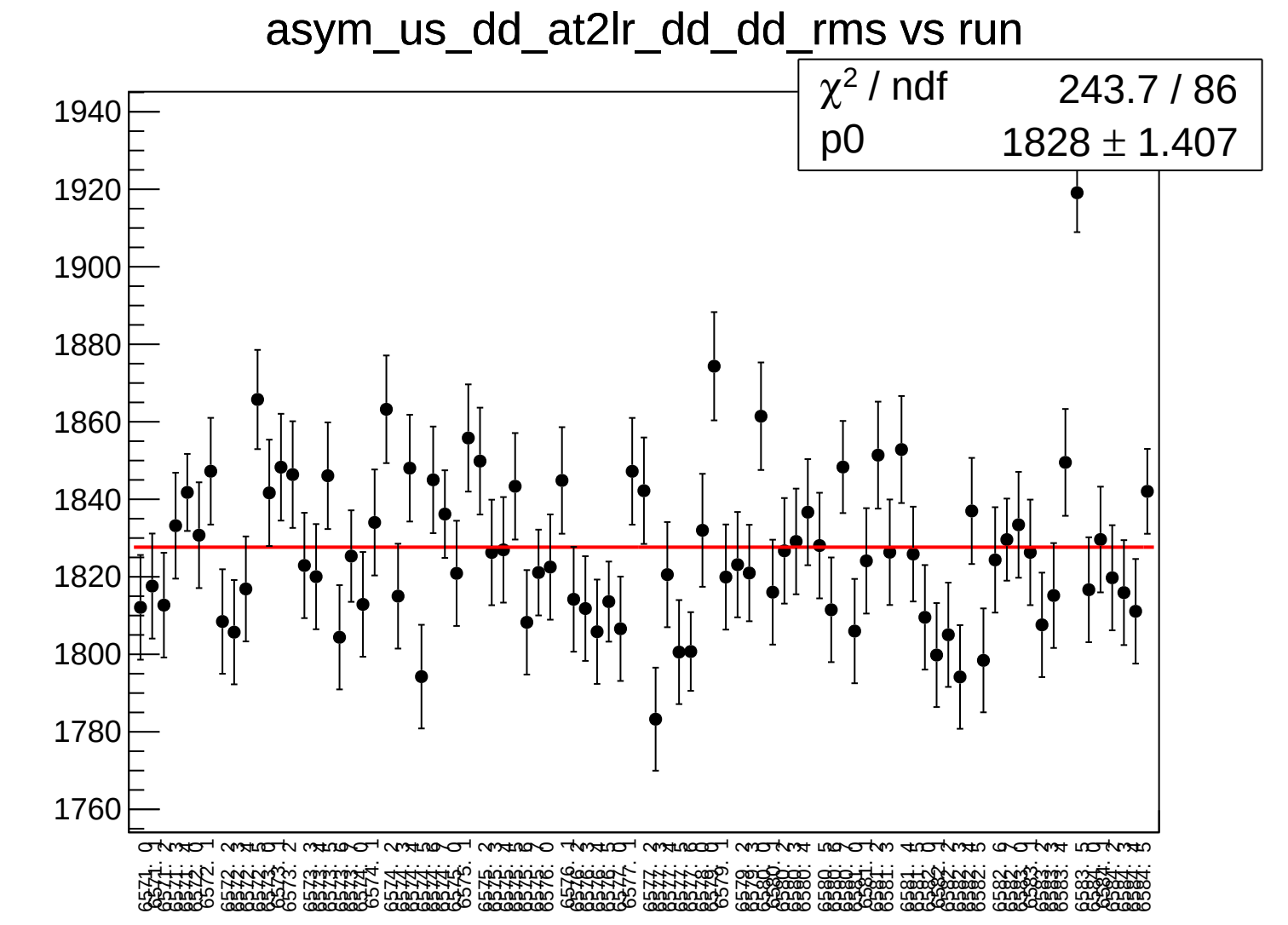

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 203.2 / 86
p0 1765 ± 1.359
1840
1820
1800
1780
1760
1740
1720
1700

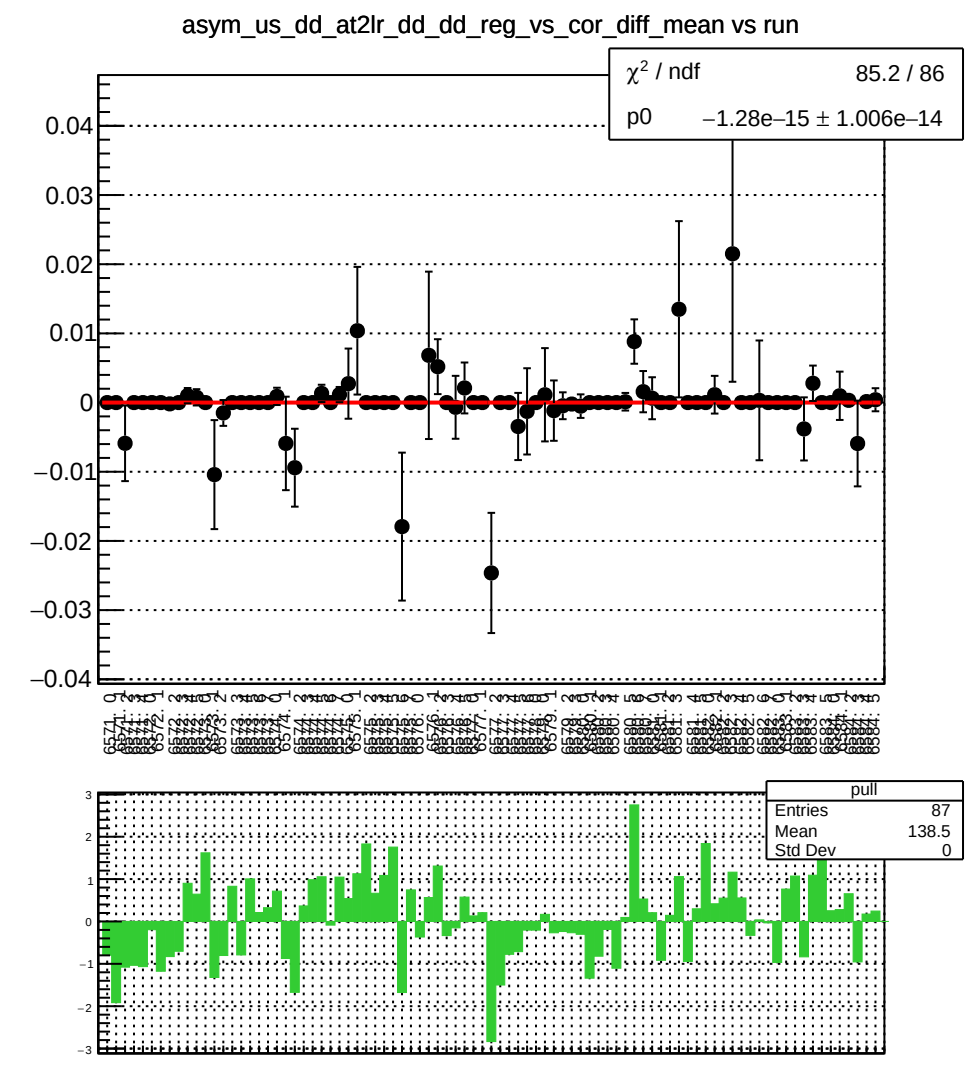

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.46 / 86
p0 62.25 ± 601.3
pull
Entries 87
Mean −600.6
Std Dev 0

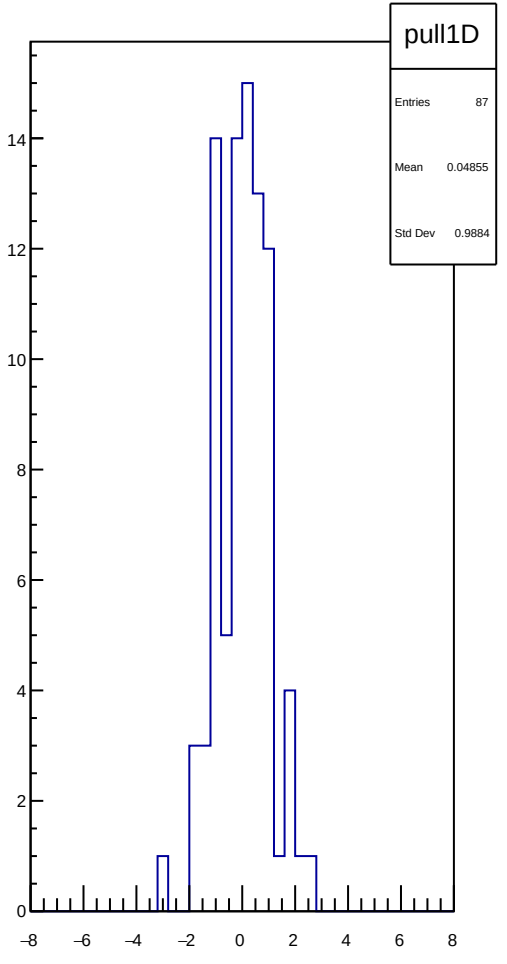

pull1D
Entries 87
Mean 0.005276
Std Dev 1.036

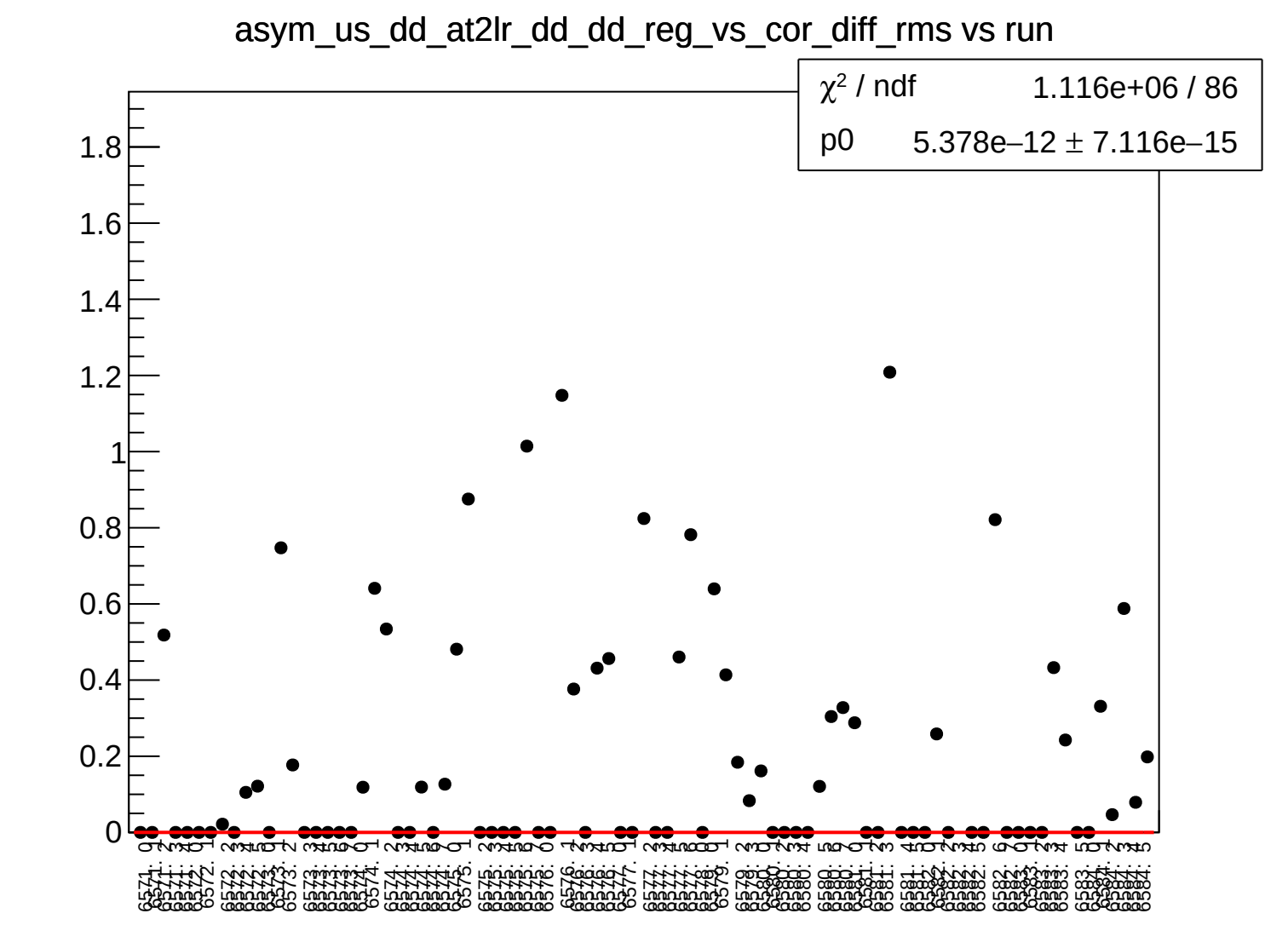

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.248e+04 / 86
p0 550.2 ± 0.4252
700
650
600
550
500
450

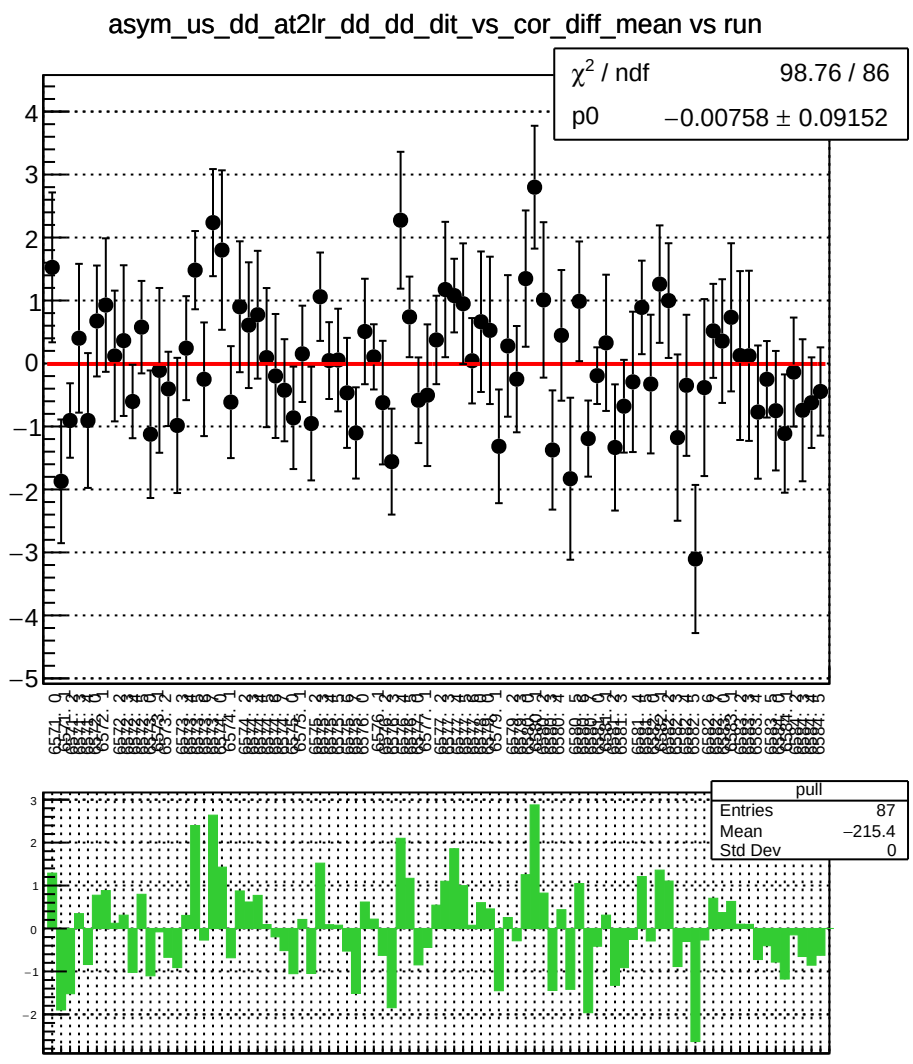

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 99.13 / 86
p0 −3697 ± 1990
pull
Entries 87
Mean 479.2
Std Dev 0
pull1D
Entries 87
Mean 0.002349
Std Dev 1.067

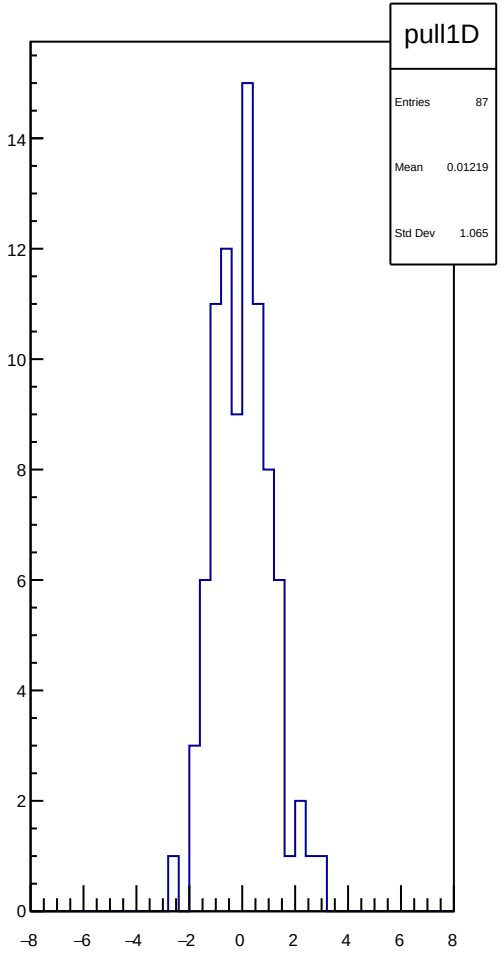

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 243.7 / 86
p0 1828 ± 1.407
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

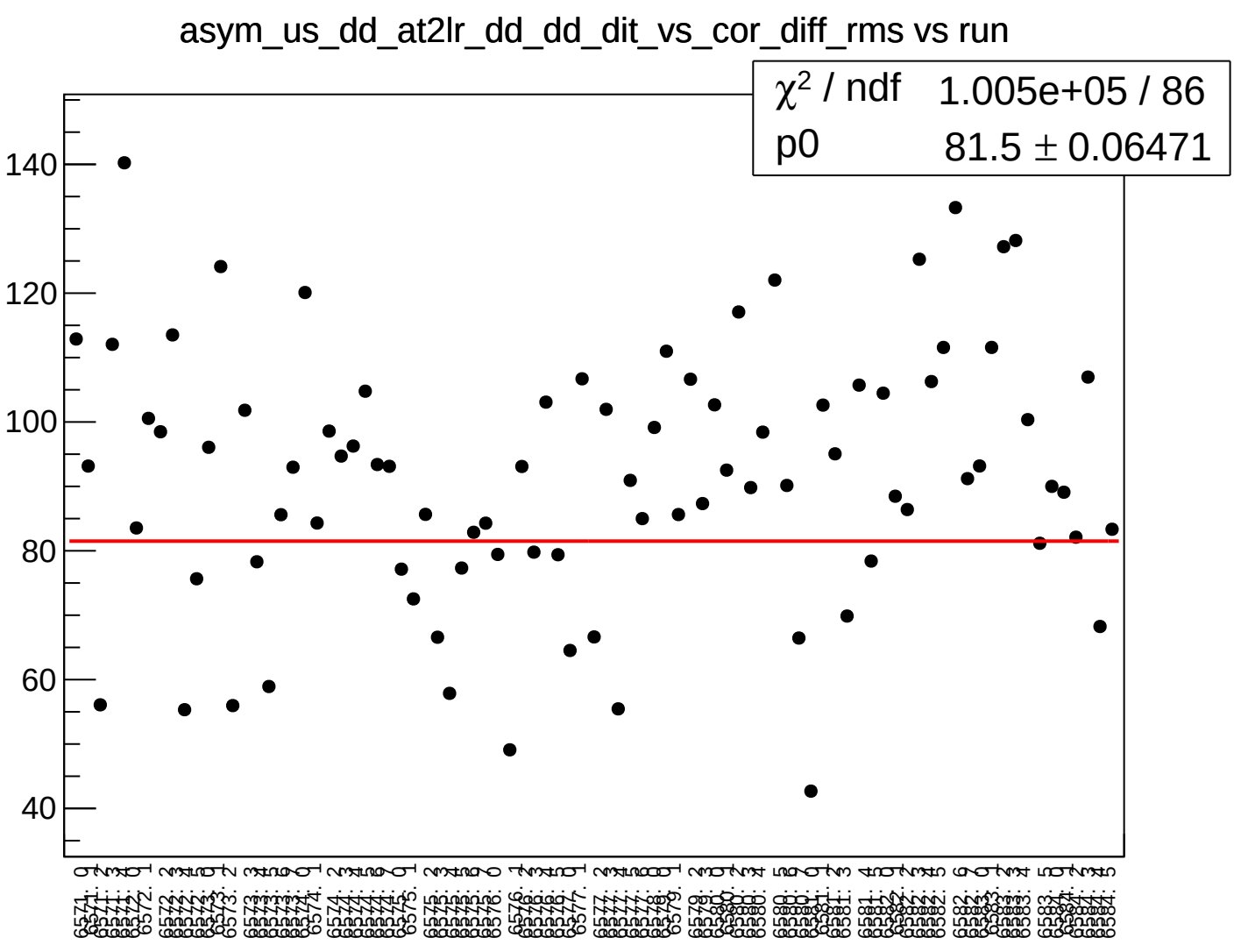

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.2 / 86
p0 −1.28e−15 ± 1.006e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 87
Mean 138.5
Std Dev 0
3
2
1
0
−1
−2
−3

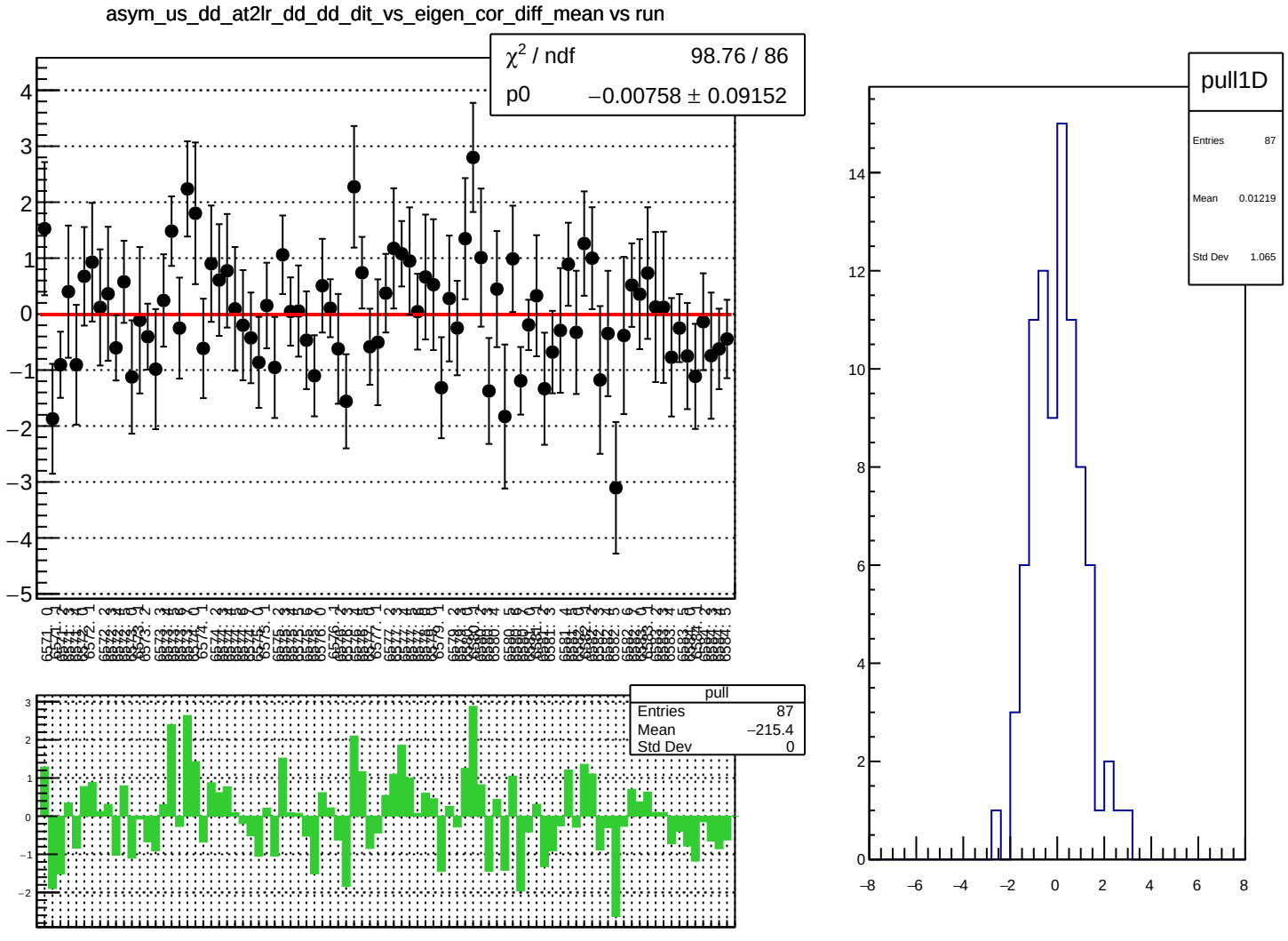

pull1D
Entries 87
Mean 0.04855
Std Dev 0.9884
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

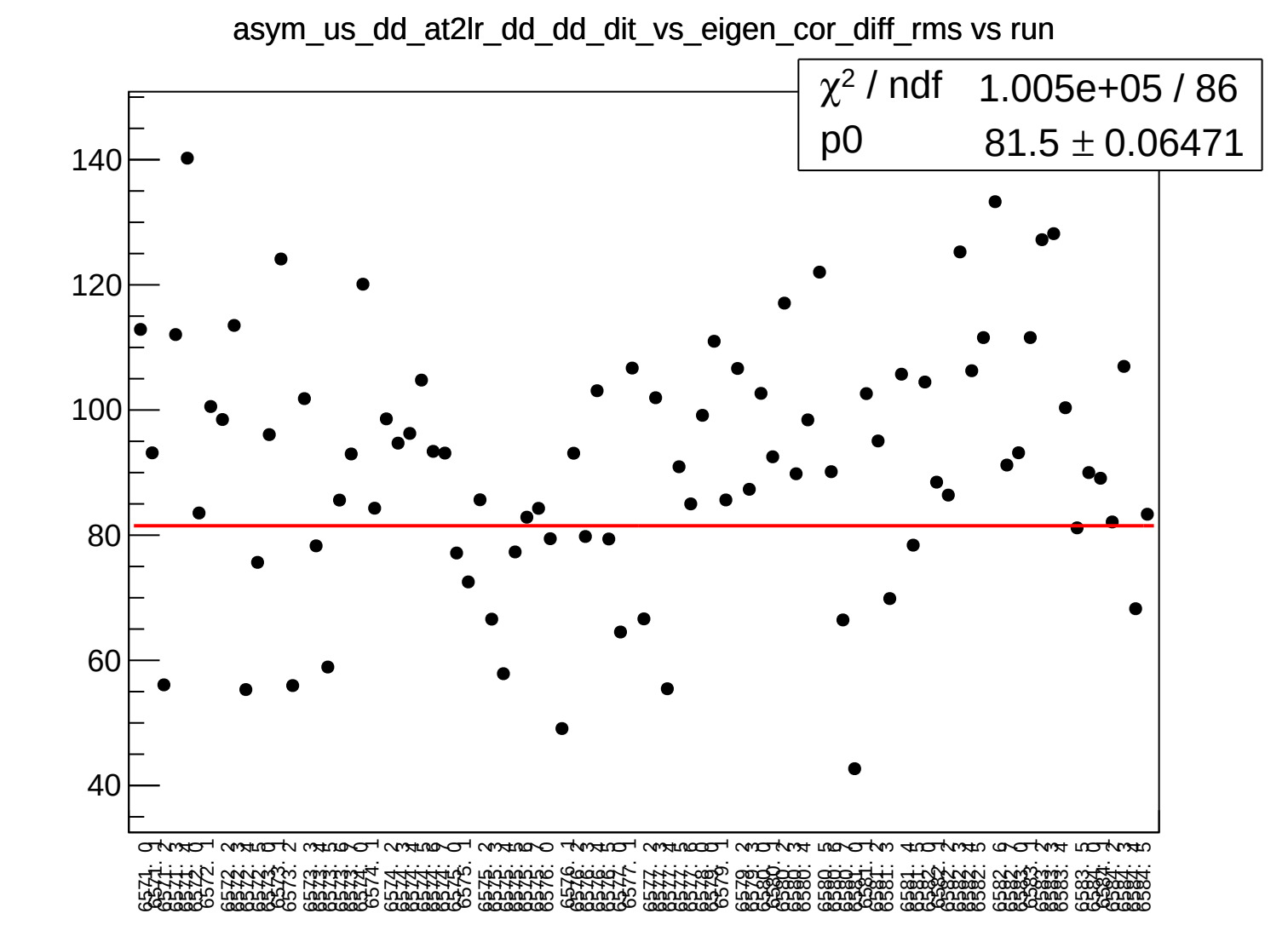

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.116e+06 / 86
p0 5.378e−12 ± 7.116e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

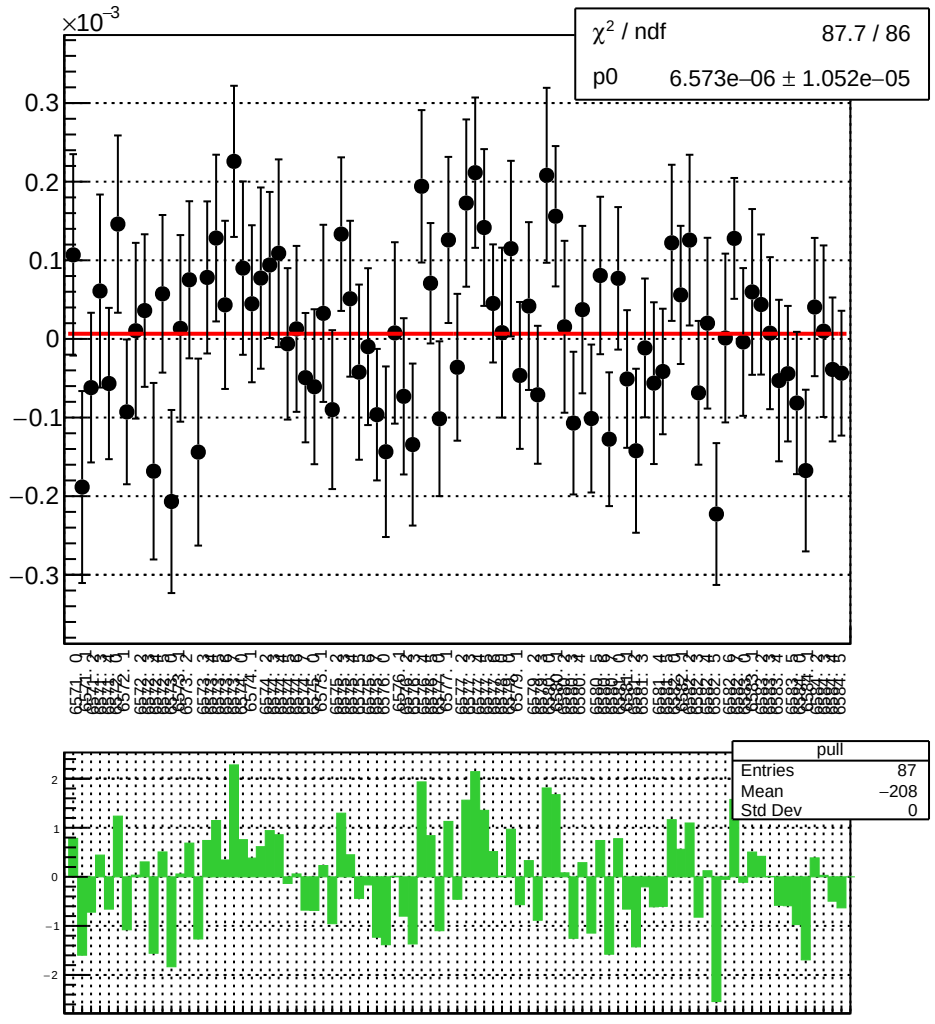

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.76 / 86
p0 −0.00758 ± 0.09152
pull
Entries 87
Mean −215.4
Std Dev 0

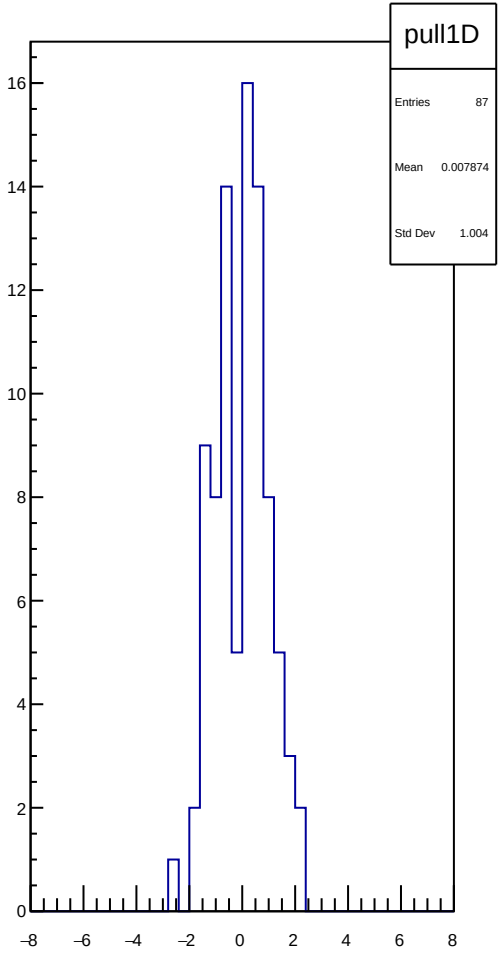

pull1D
Entries 87
Mean 0.01219
Std Dev 1.065

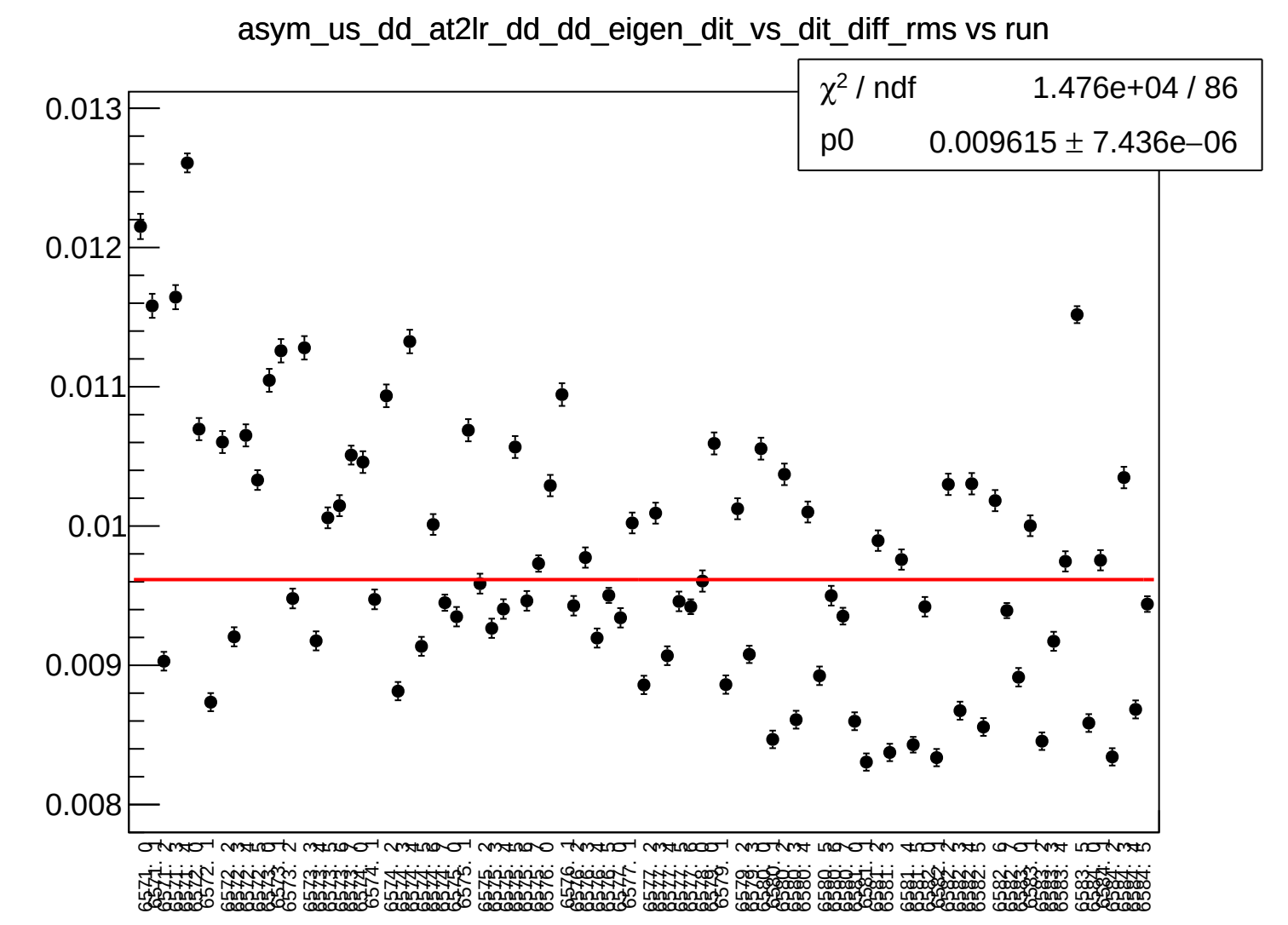

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.005e+05 / 86
p0 81.5 ± 0.06471
140
120
100
80
60
40

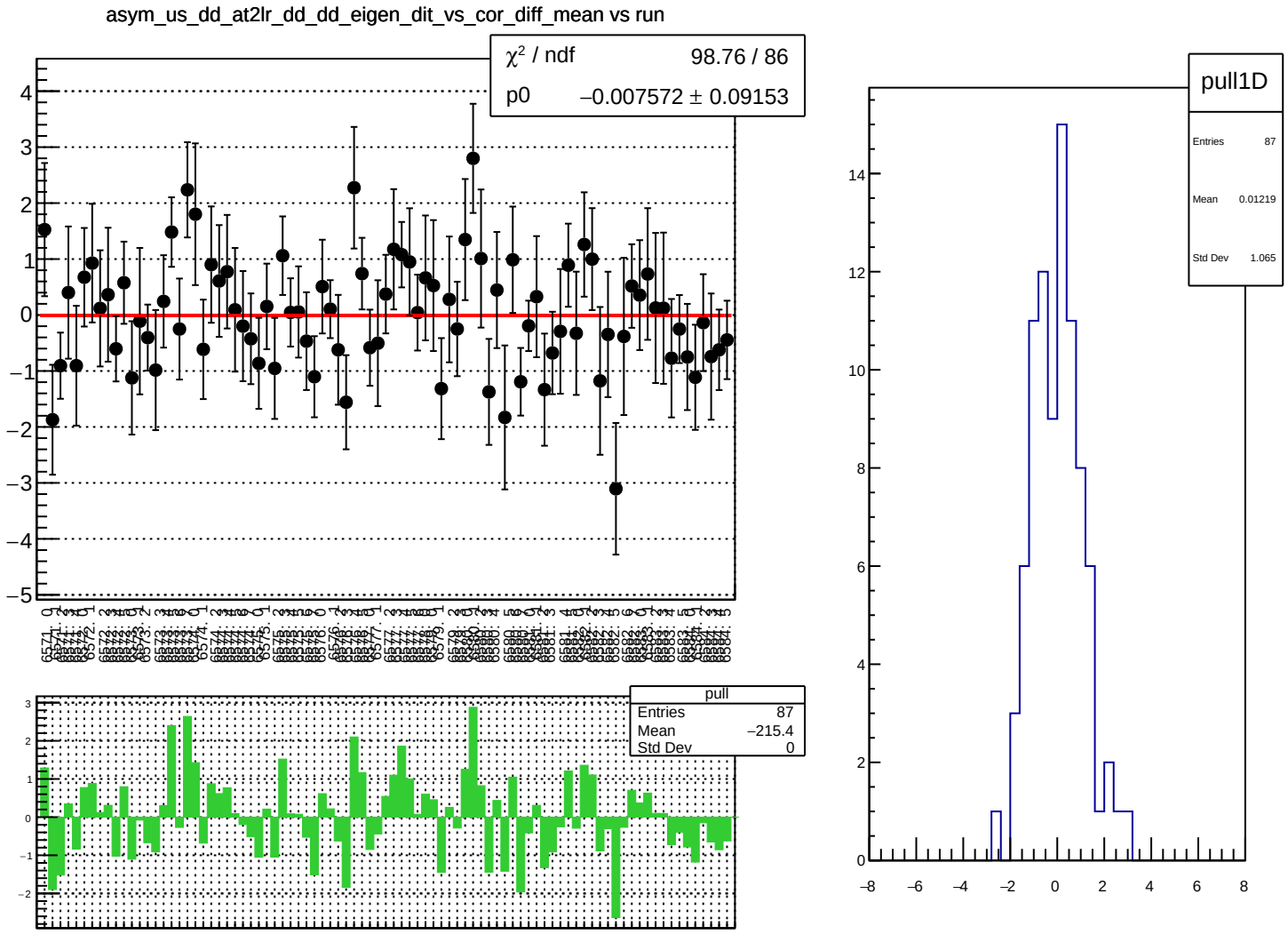

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.76 / 86
p0 −0.00758 ± 0.09152
pull
Entries 87
Mean −215.4
Std Dev 0
pull1D
Entries 87
Mean 0.01219
Std Dev 1.065

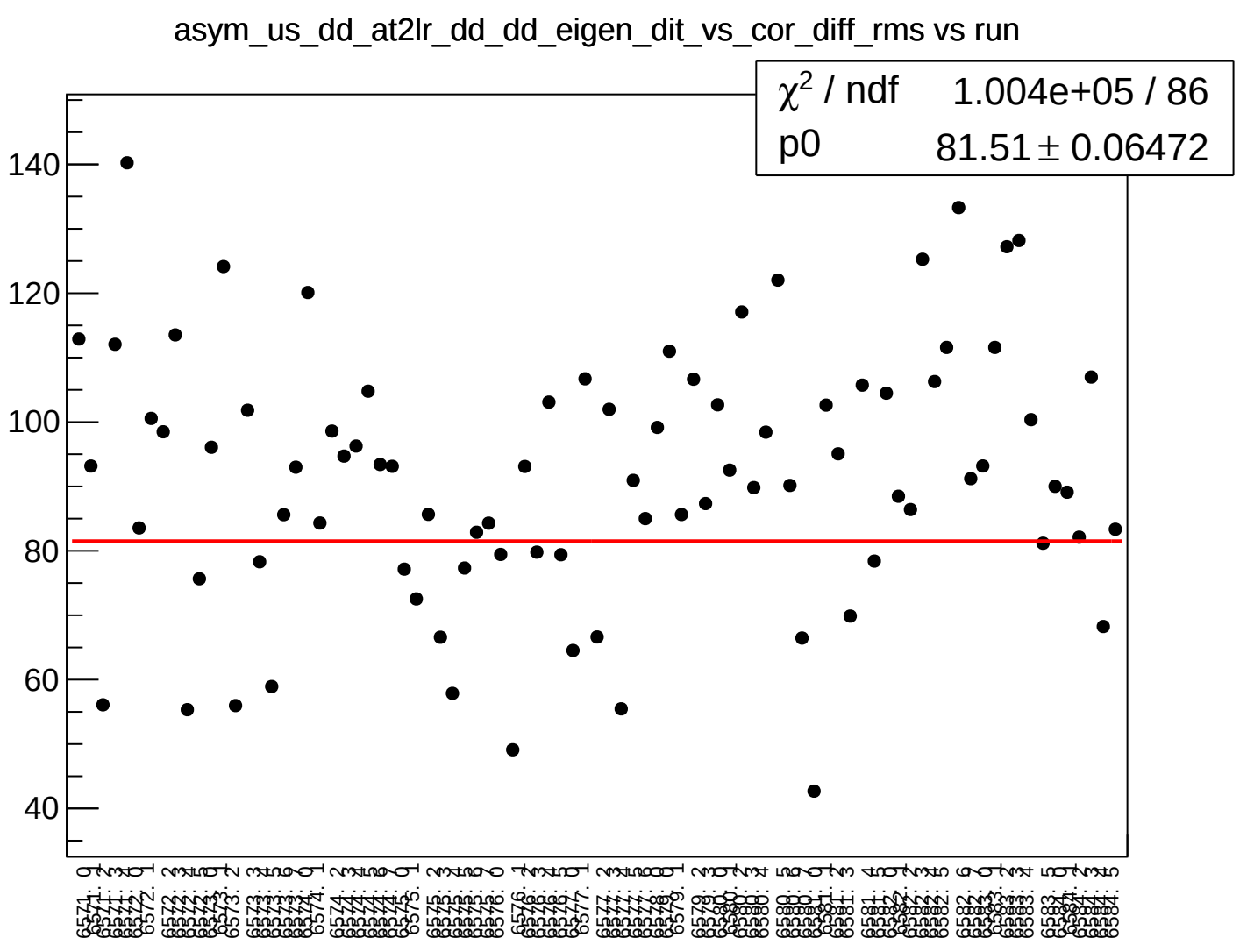

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.005e+05 / 86
p0 81.5 ± 0.06471
140
120
100
80
60
40

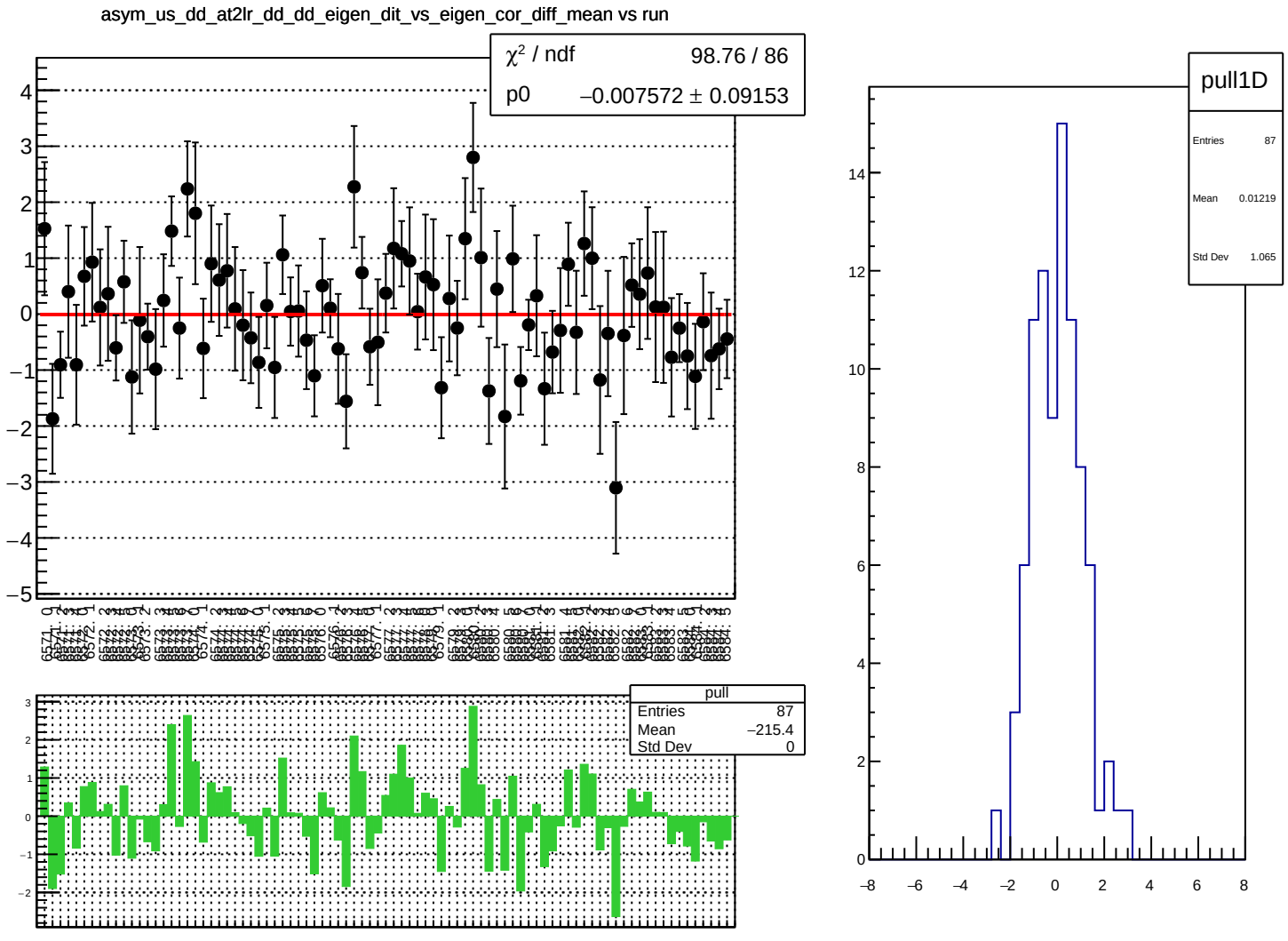

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.7 / 86
p0 6.573e−06 ± 1.052e−05
pull
Entries 87
Mean −208
Std Dev 0

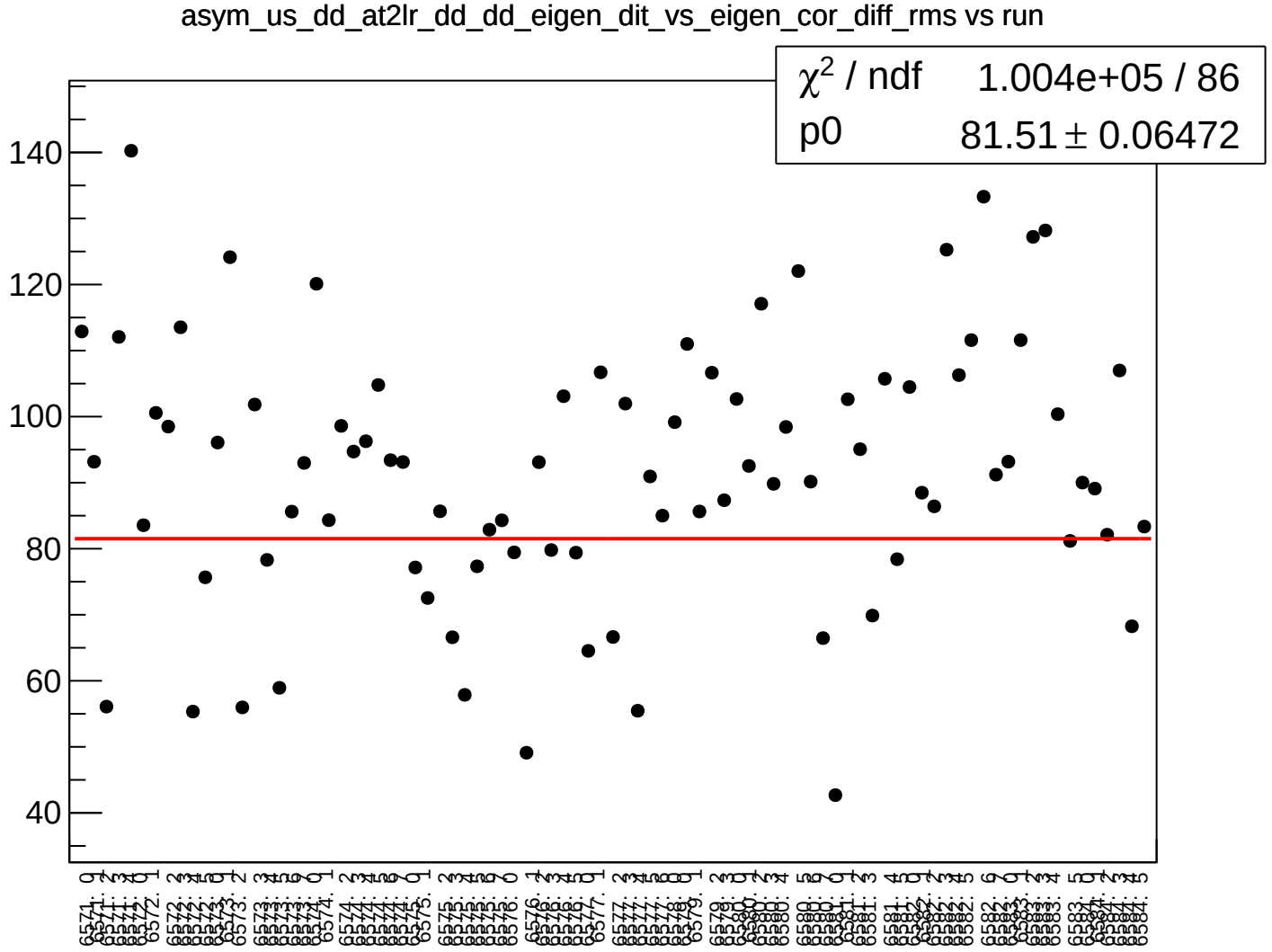

pull1D
Entries 87
Mean 0.007874
Std Dev 1.004

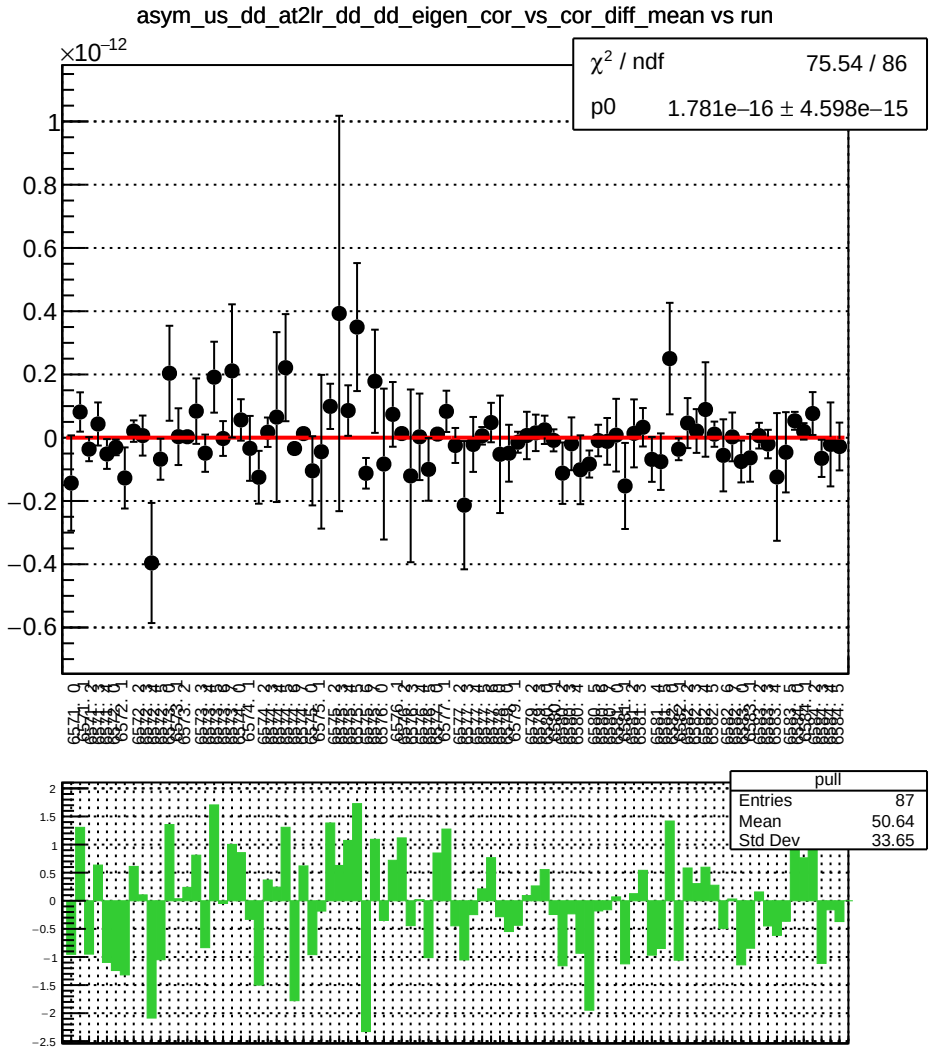

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.476e+04 / 86
p0 0.009615 ± 7.436e−06
0.013
0.012
0.011
0.01
0.009
0.008

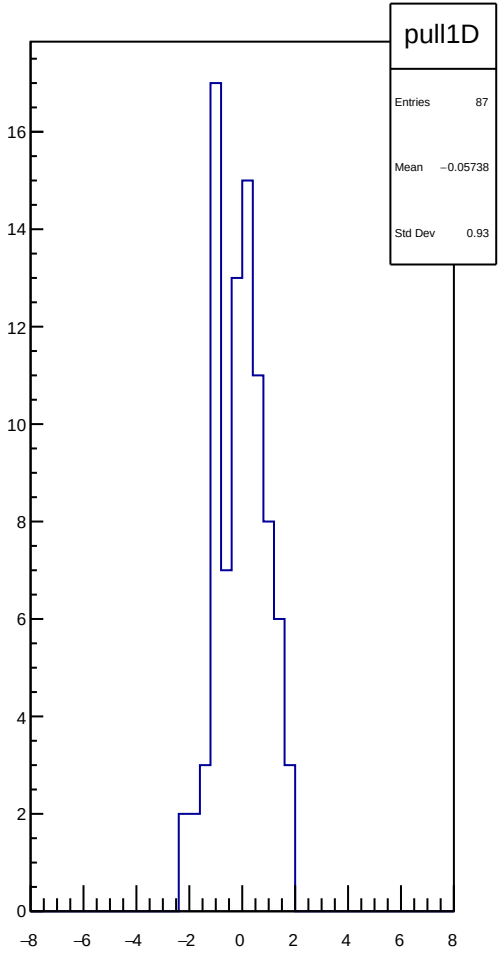

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.76 / 86
p0 −0.007572 ± 0.09153
pull
Entries 87
Mean −215.4
Std Dev 0
pull1D
Entries 87
Mean 0.01219
Std Dev 1.065

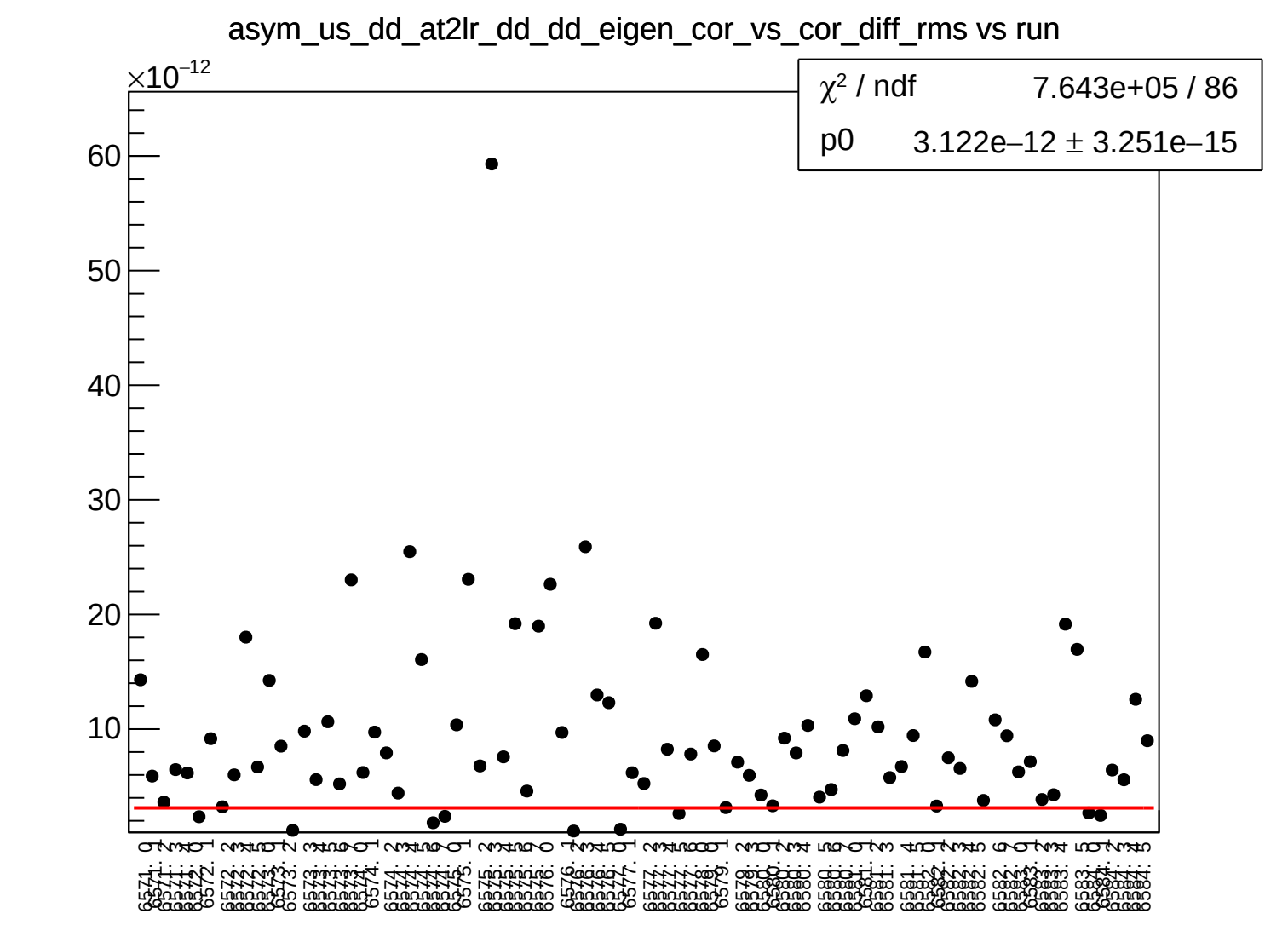

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.004e+05 / 86
p0 81.51 ± 0.06472
140
120
100
80
60
40

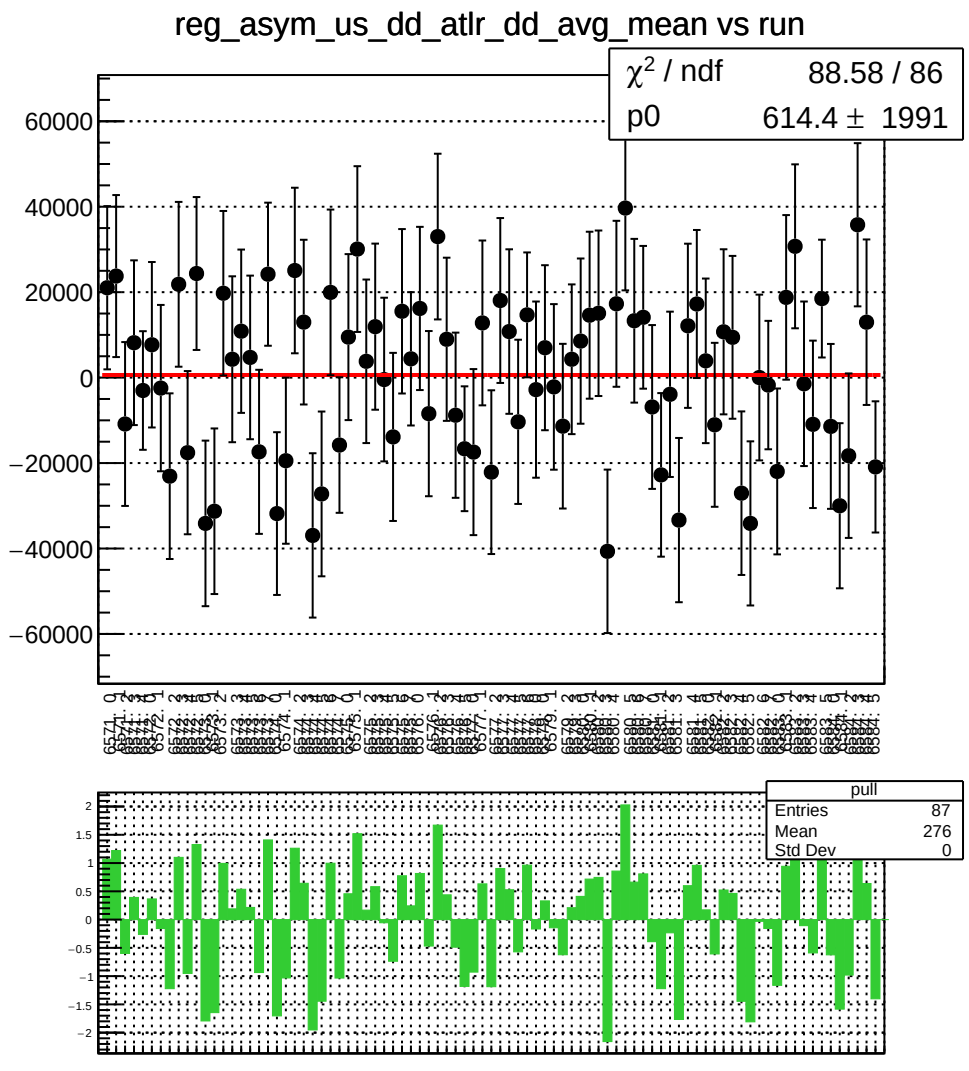

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.76 / 86
p0 −0.007572 ± 0.09153
pull
Entries 87
Mean −215.4
Std Dev 0
pull1D
Entries 87
Mean 0.01219
Std Dev 1.065

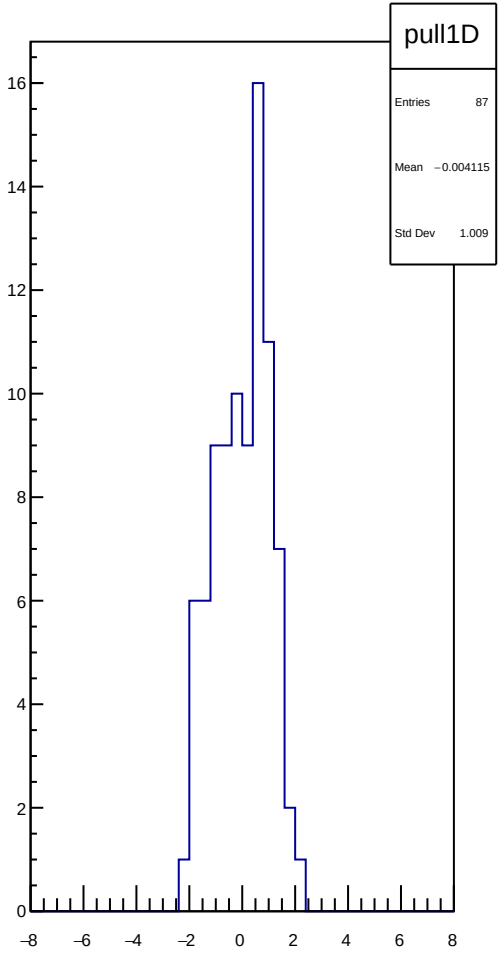

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.004e+05 / 86
p0 81.51 ± 0.06472
140
120
100
80
60
40

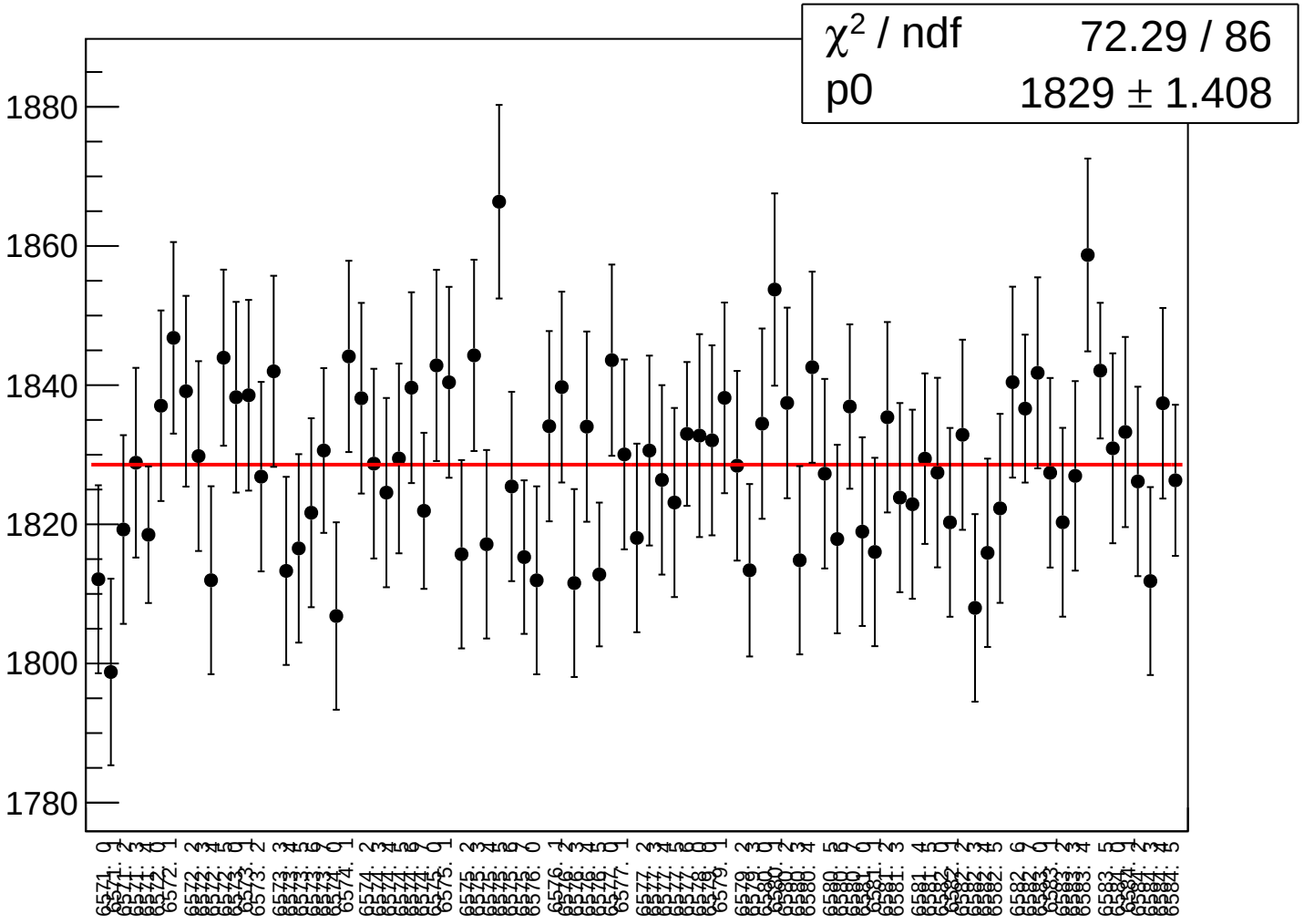

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.54 / 86
p0 1.781e−16 ± 4.598e−15
pull
Entries 87
Mean 50.64
Std Dev 33.65

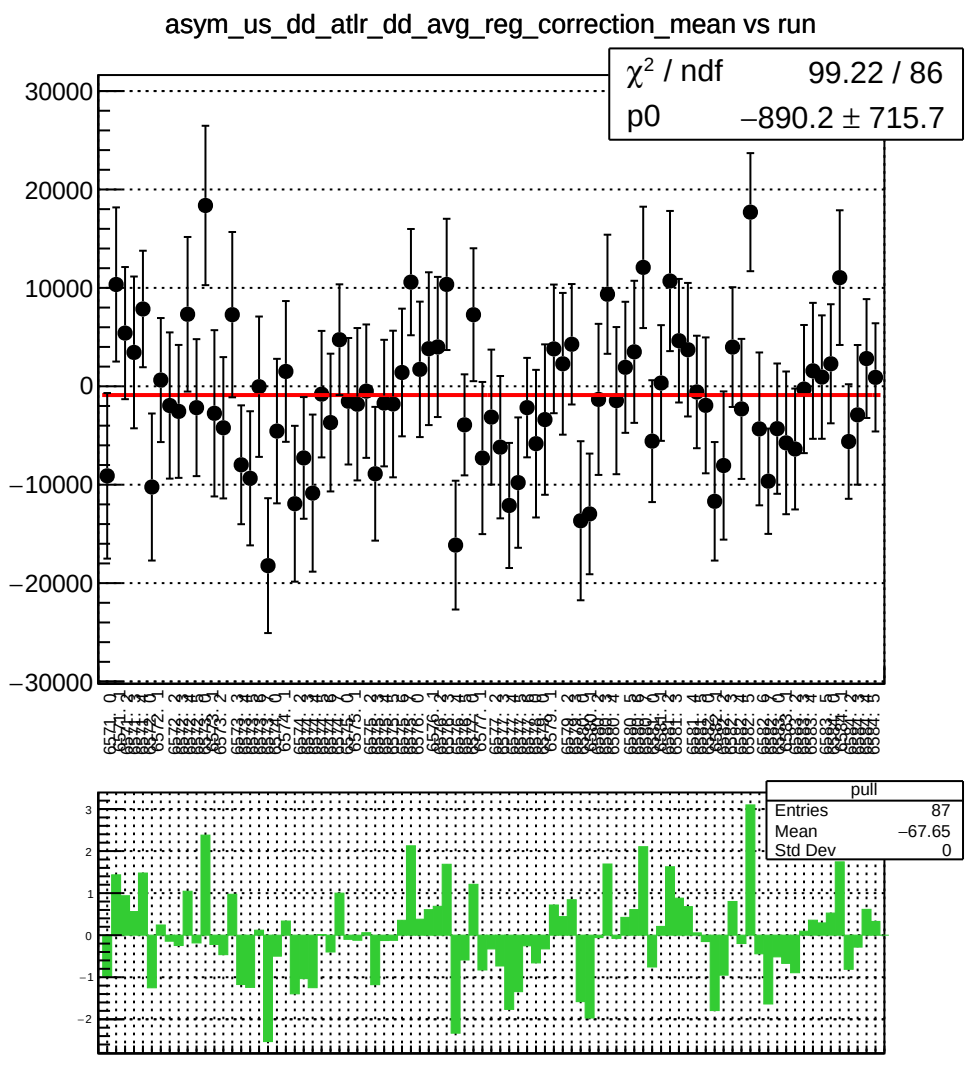

pull1D
Entries 87
Mean −0.05738
Std Dev 0.93

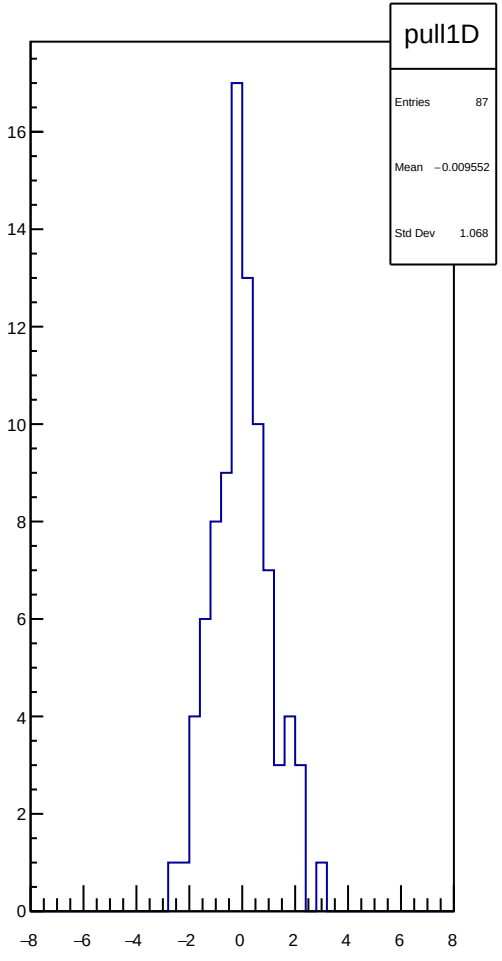

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.643e+05 / 86
p0 3.122e−12 ± 3.251e−15
60
50
40
30
20
10

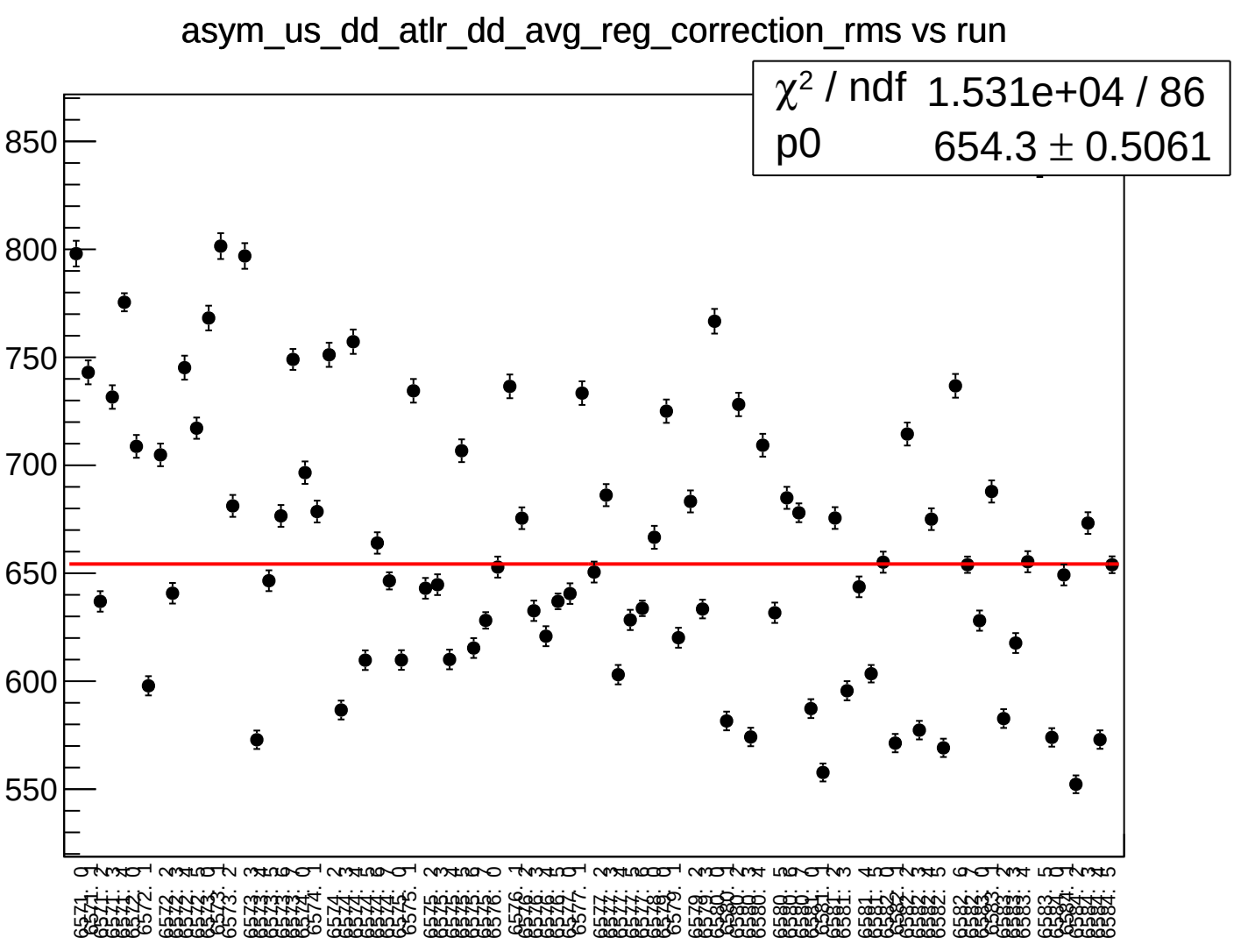

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.58 / 86
p0 614.4 ± 1991
pull
Entries 87
Mean 276
Std Dev 0

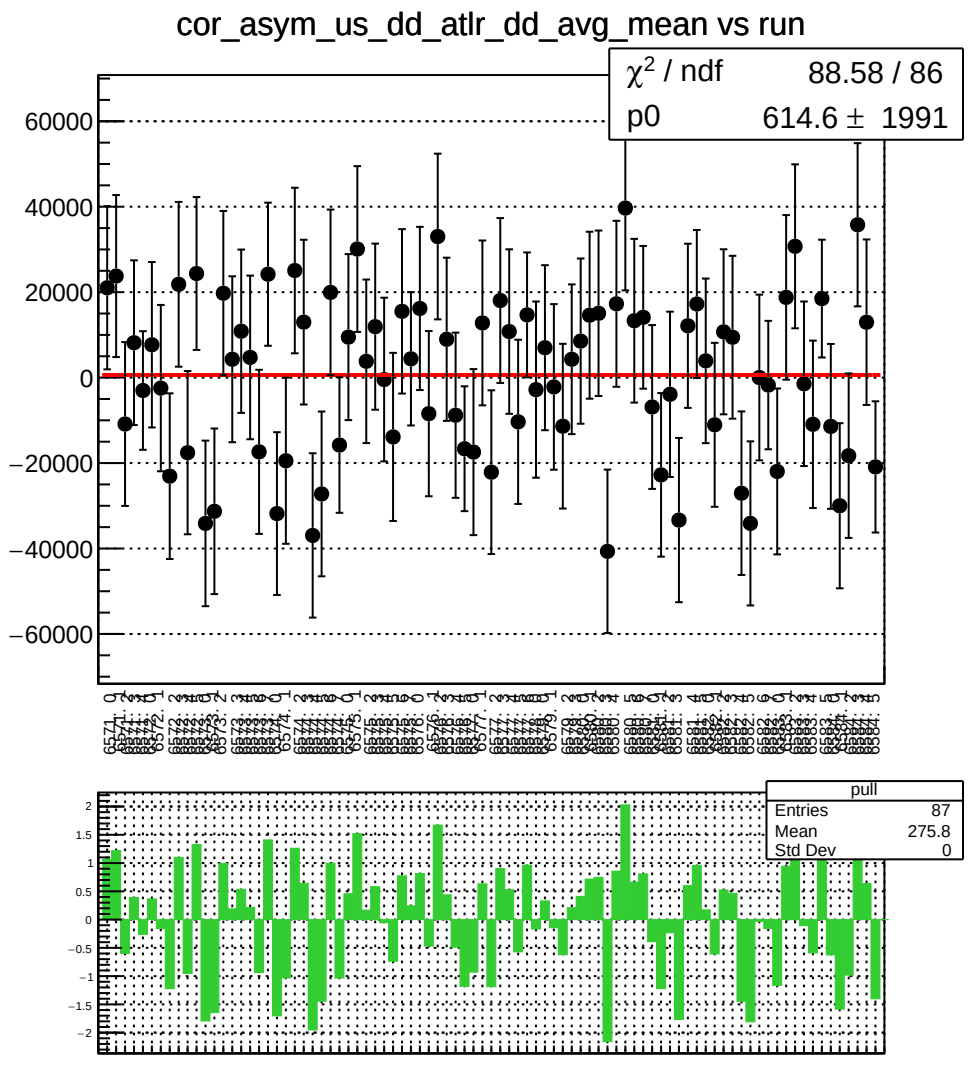

pull1D
Entries 87
Mean −0.004115
Std Dev 1.009

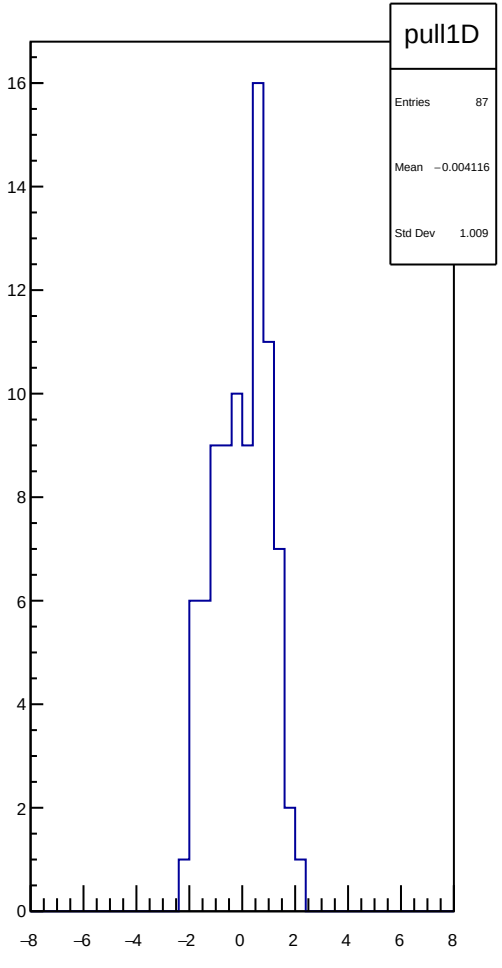

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 72.29 / 86
p0 1829 ± 1.408
1880
1860
1840
1820
1800
1780

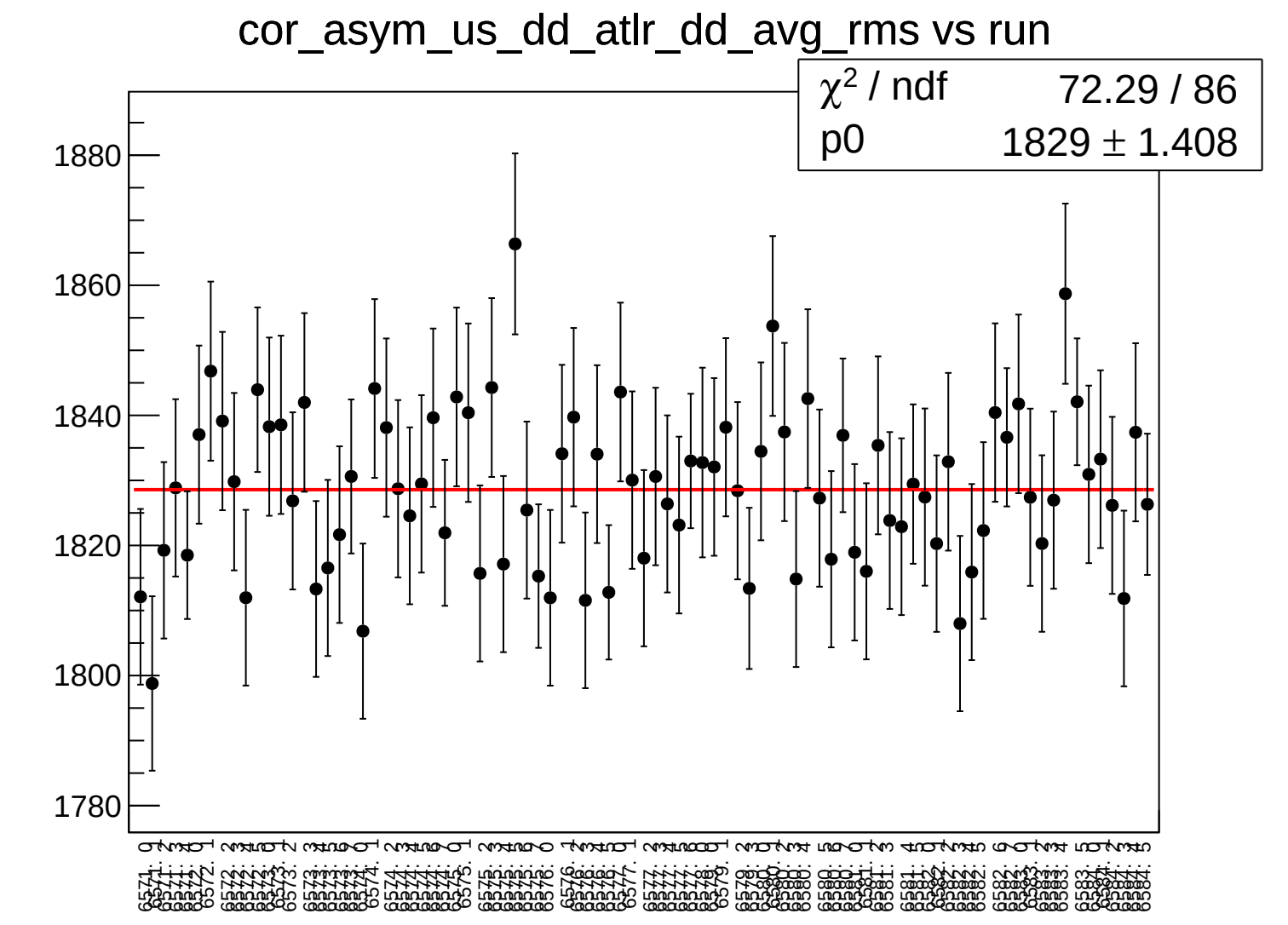

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 99.22 / 86
p0 −890.2 ± 715.7
pull
Entries 87
Mean −67.65
Std Dev 0

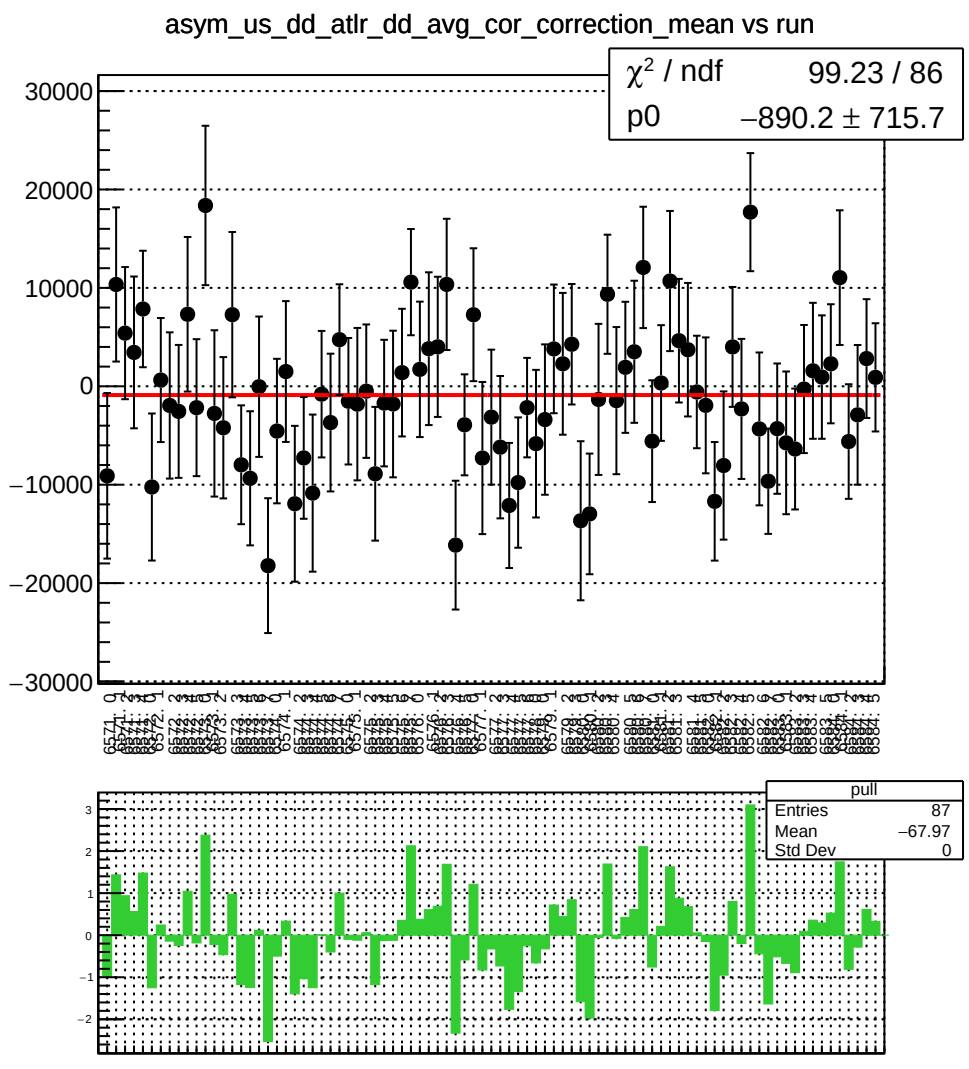

pull1D
Entries 87
Mean −0.009552
Std Dev 1.068

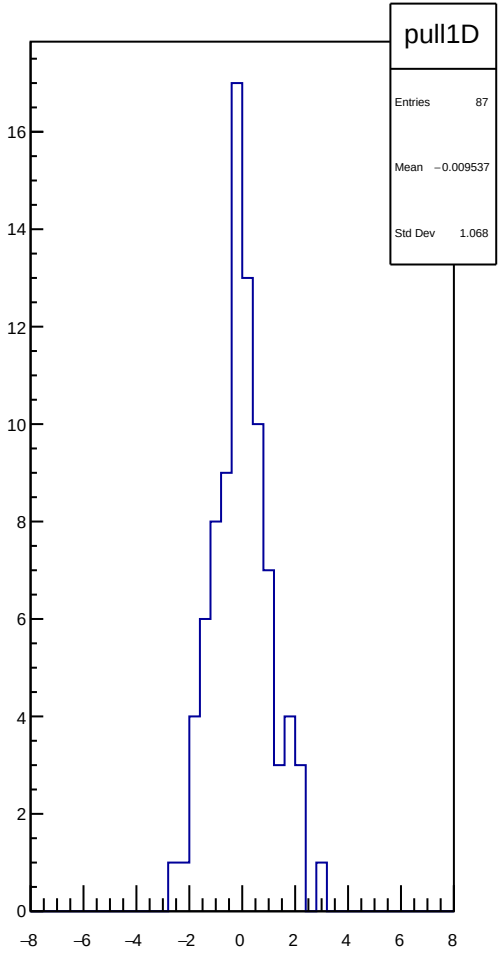

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.531e+04 / 86
p0 654.3 ± 0.5061
850
800
750
700
650
600
550

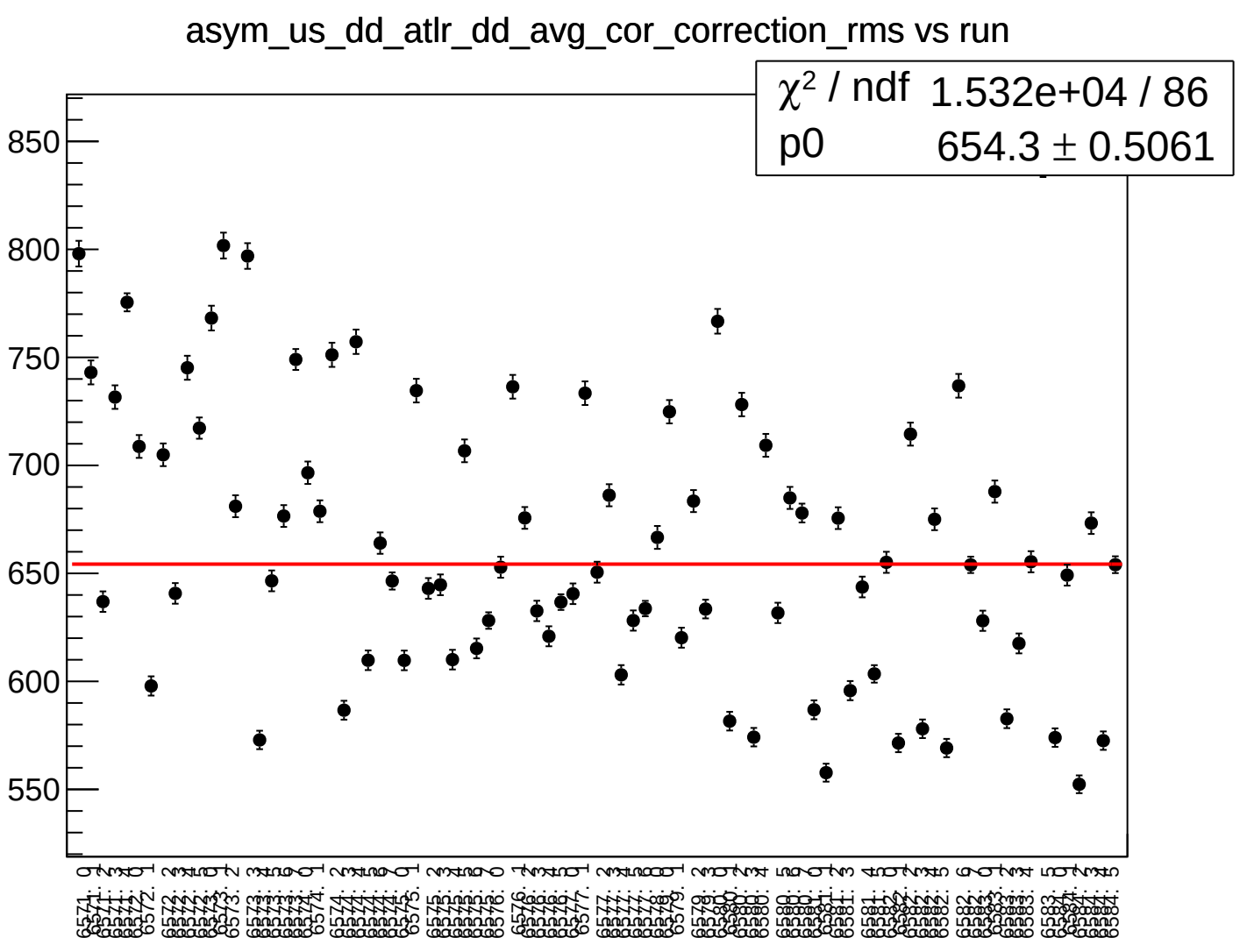

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.58 / 86
p0 614.6 ± 1991
pull
Entries 87
Mean 275.8
Std Dev 0

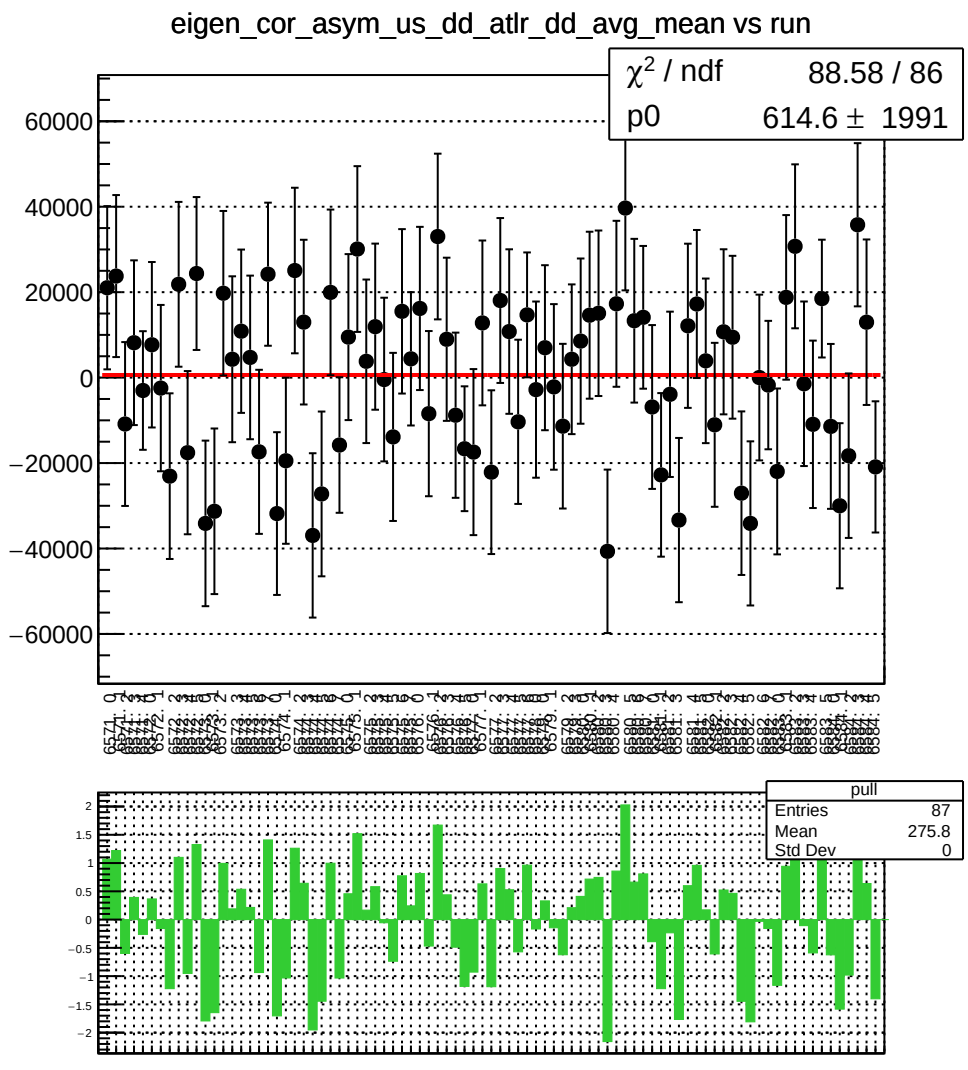

pull1D
Entries 87
Mean −0.004116
Std Dev 1.009

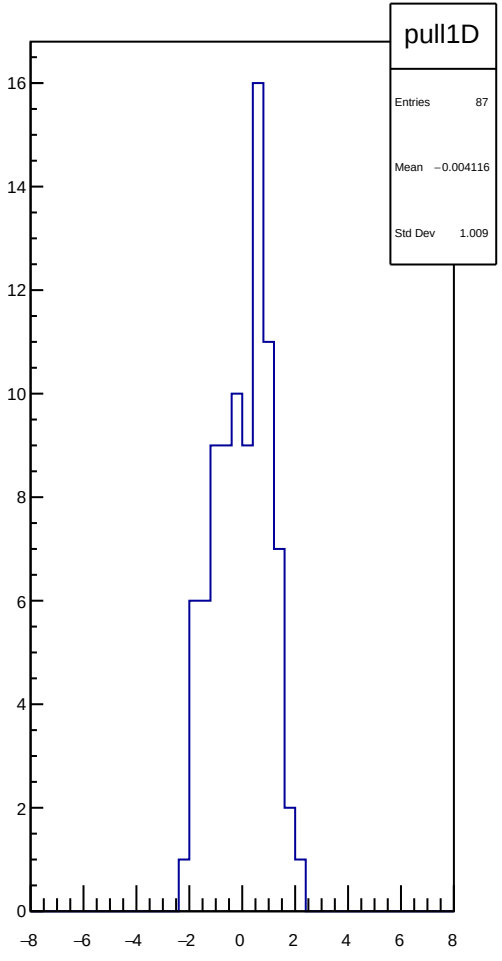

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 72.29 / 86
p0 1829 ± 1.408
1880
1860
1840
1820
1800
1780

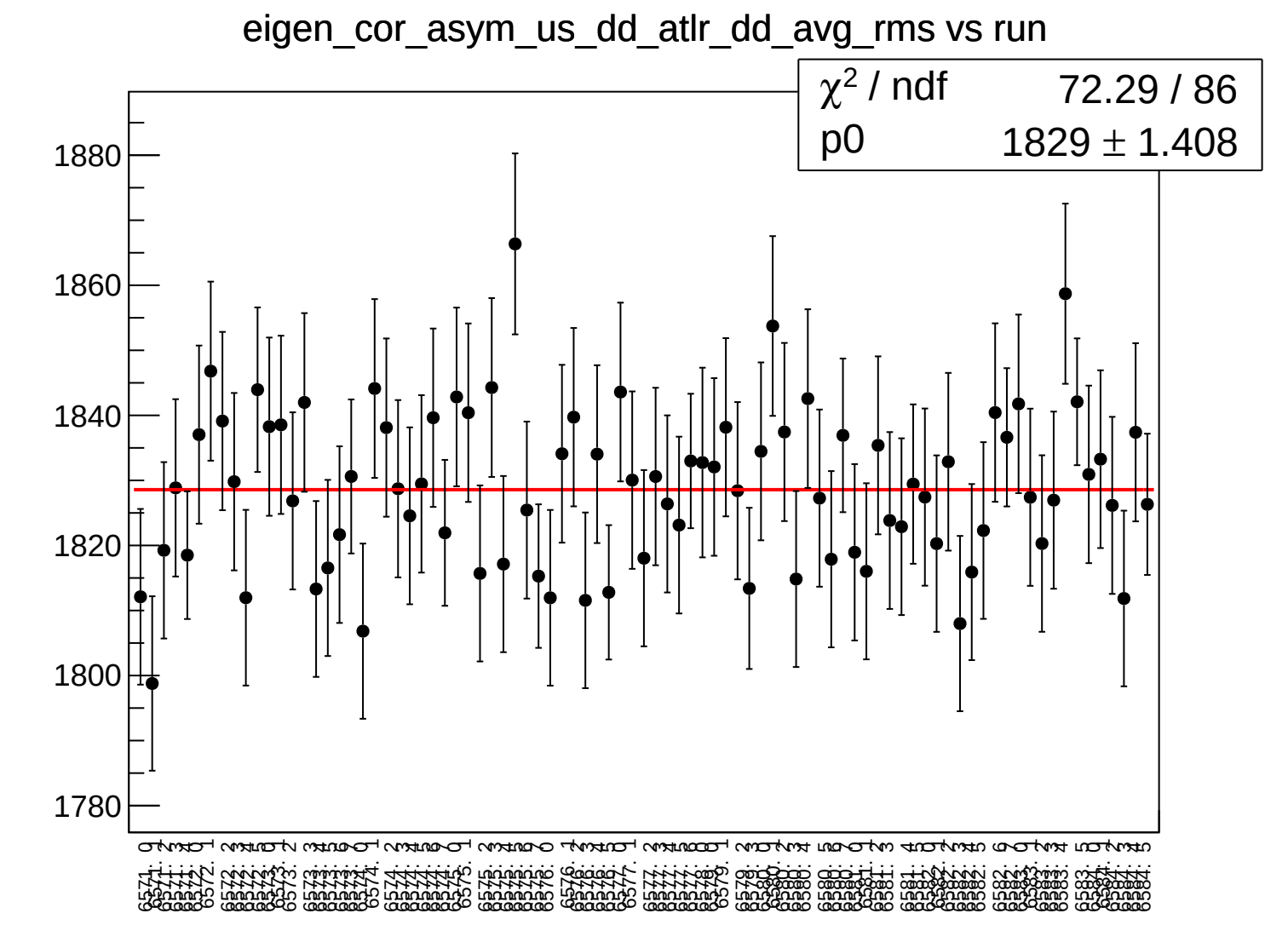

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 99.23 / 86
p0 −890.2 ± 715.7
pull
Entries 87
Mean −67.97
Std Dev 0

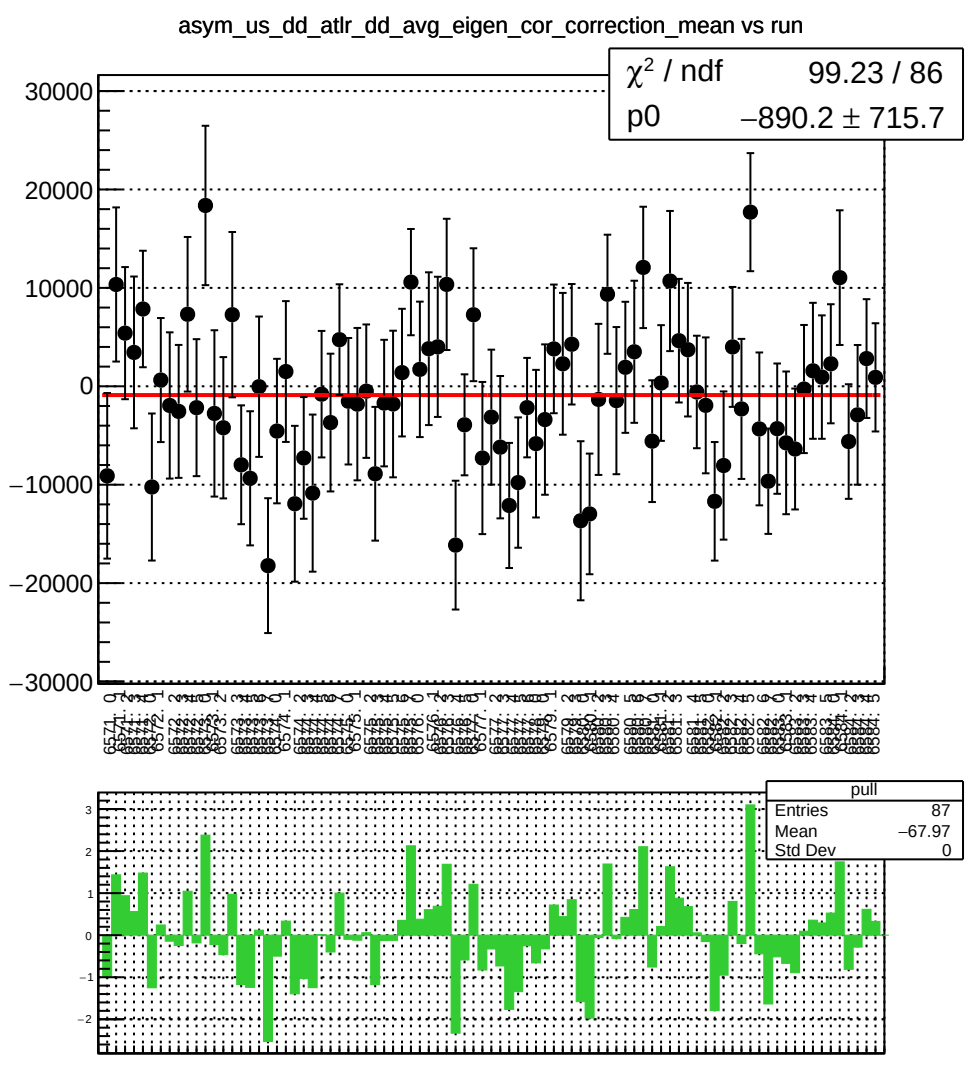

pull1D
Entries 87
Mean −0.009537
Std Dev 1.068

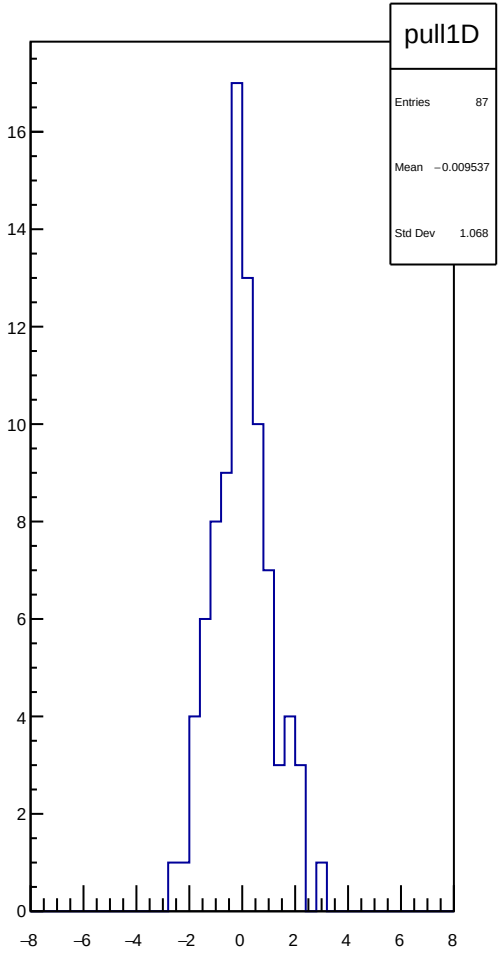

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.532e+04 / 86
p0 654.3 ± 0.5061
850
800
750
700
650
600
550

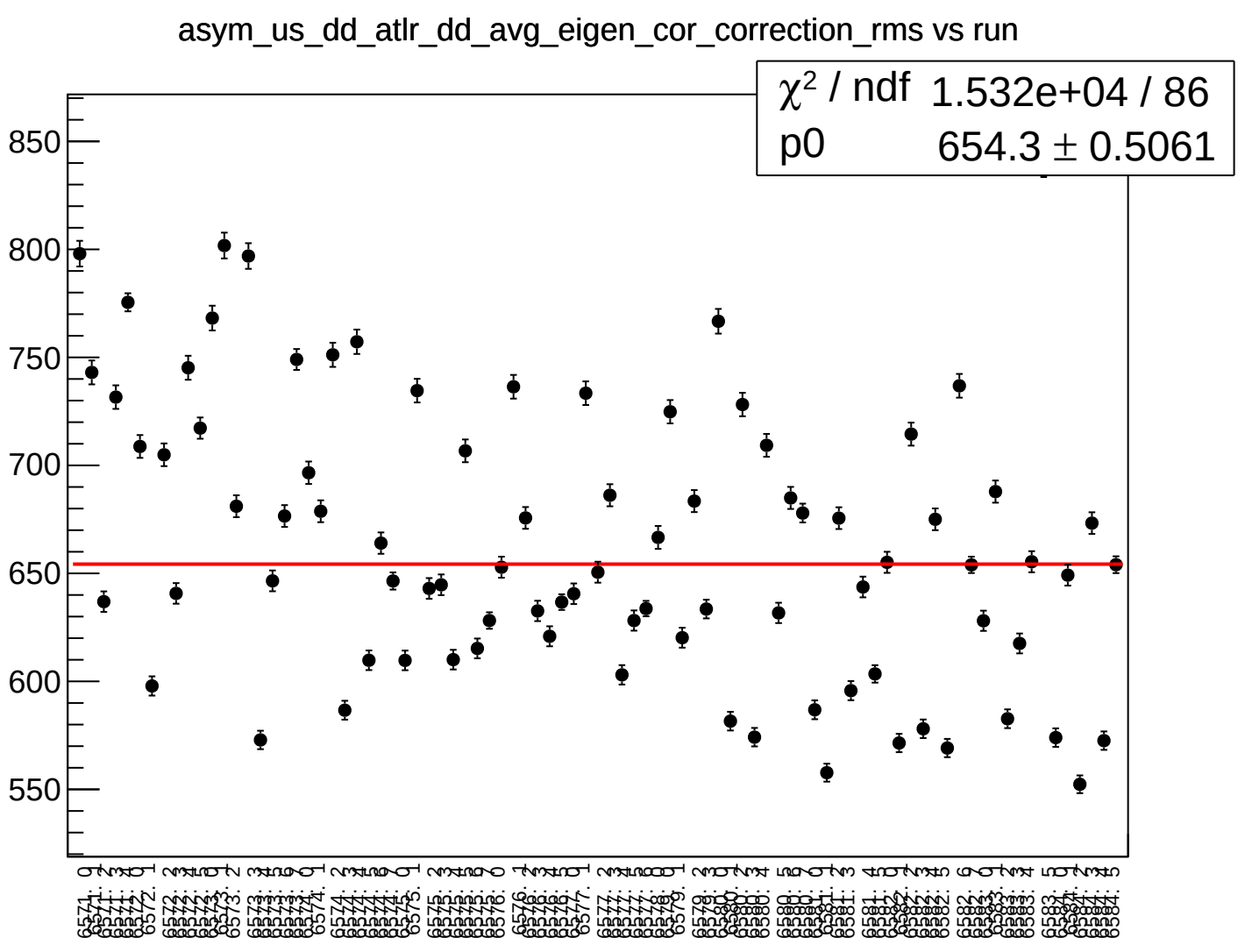

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.58 / 86
p0 614.6 ± 1991
pull
Entries 87
Mean 275.8
Std Dev 0

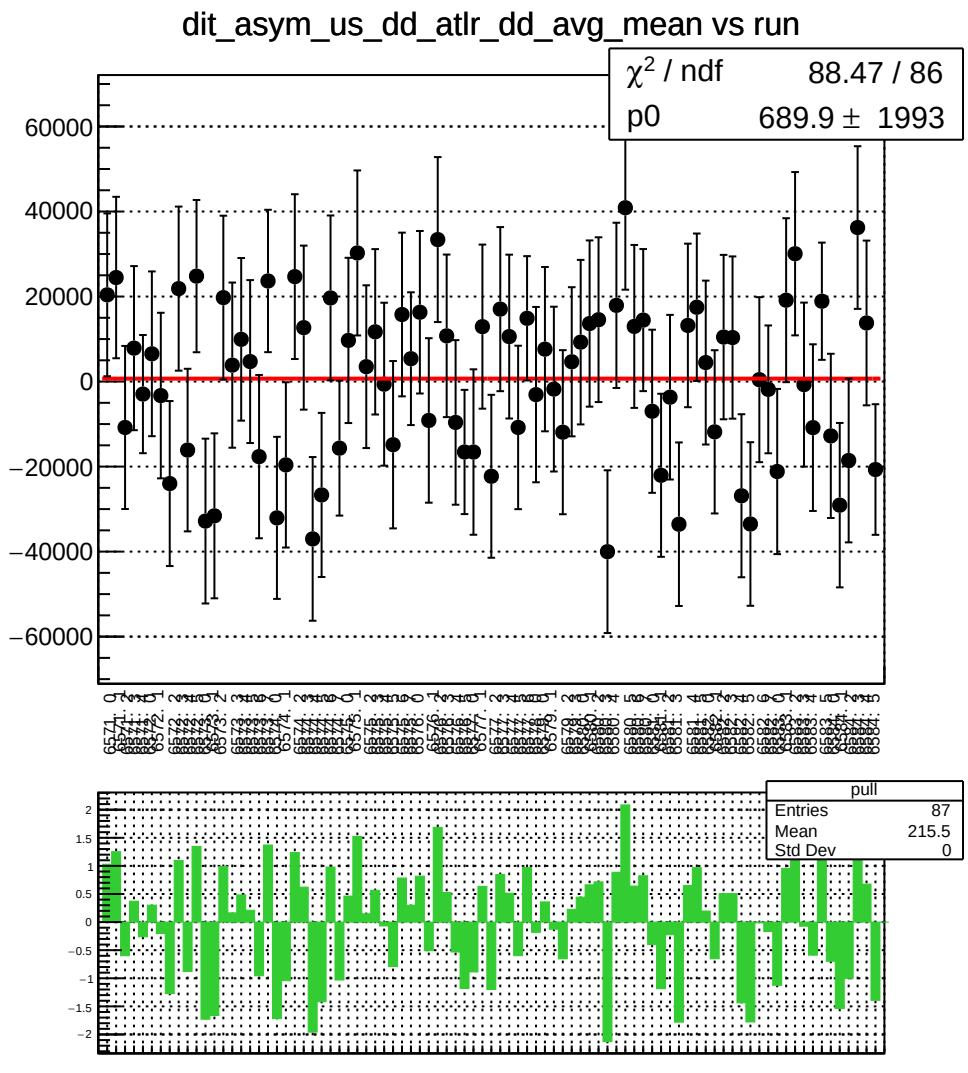

pull1D
Entries 87
Mean −0.004116
Std Dev 1.009

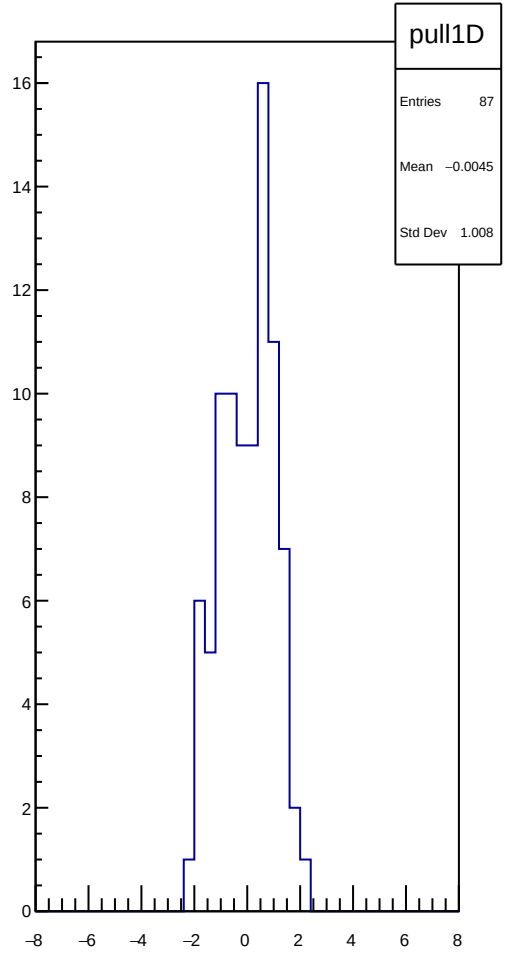

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 72.29 / 86
p0 1829 ± 1.408
1880
1860
1840
1820
1800
1780

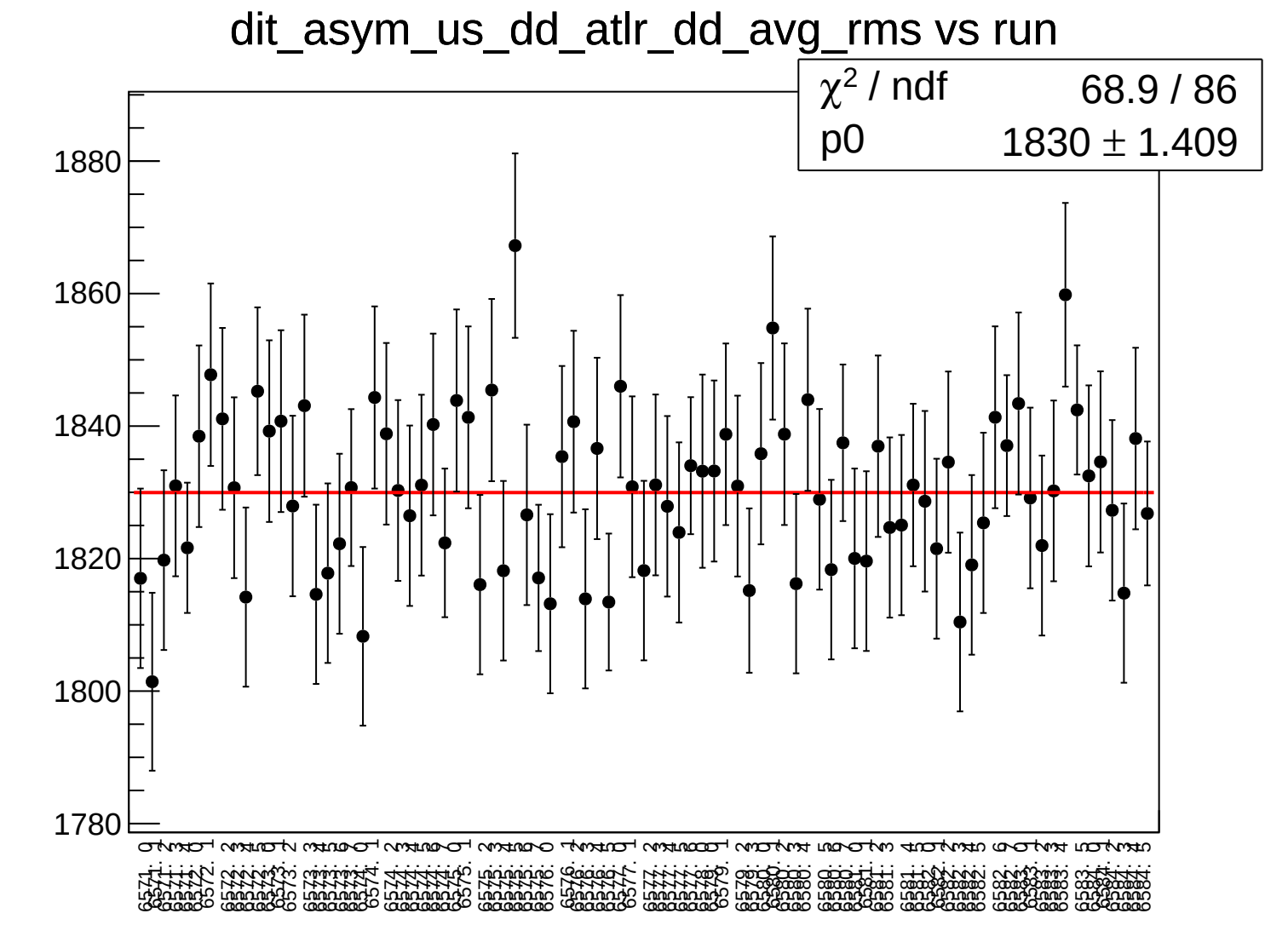

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.23 / 86
p0 −890.2 ± 715.7
pull
Entries 87
Mean −67.97
Std Dev 0

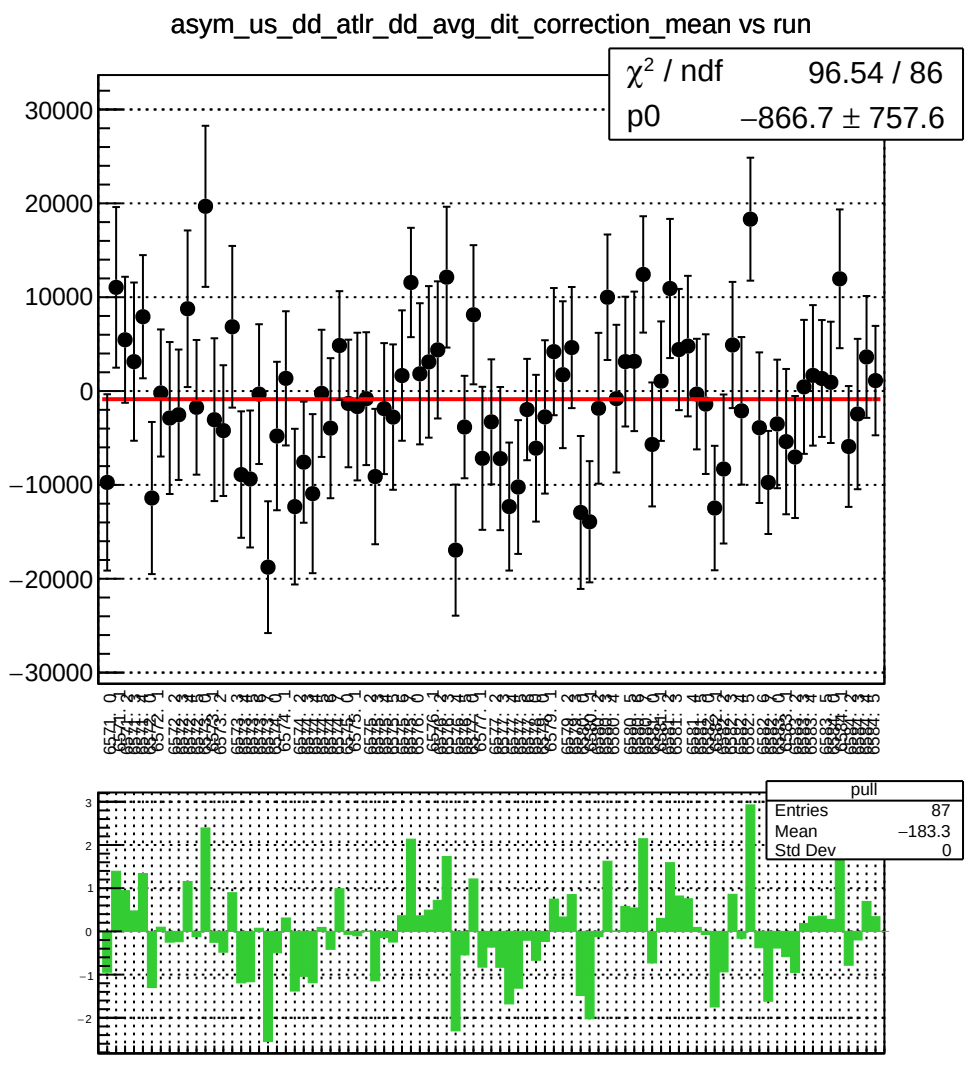

pull1D
Entries 87
Mean −0.009537
Std Dev 1.068

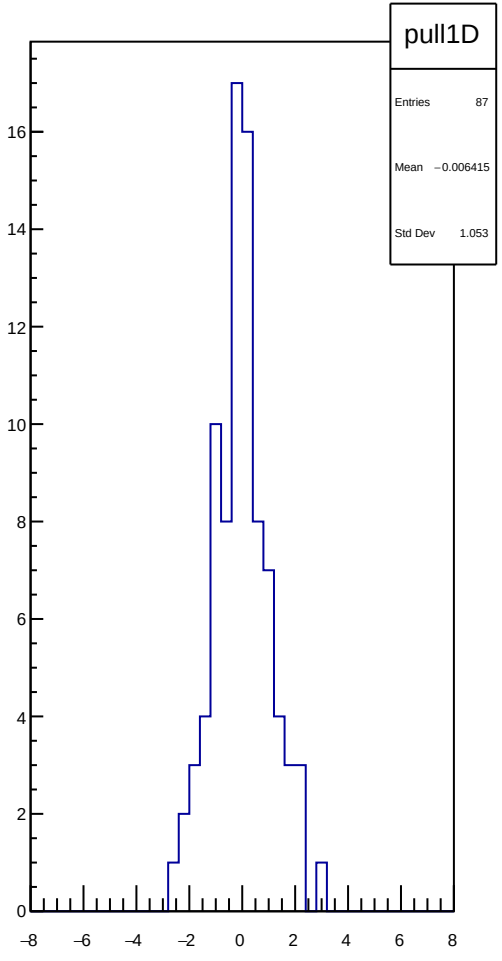

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.532e+04 / 86
p0 654.3 ± 0.5061
850
800
750
700
650
600
550

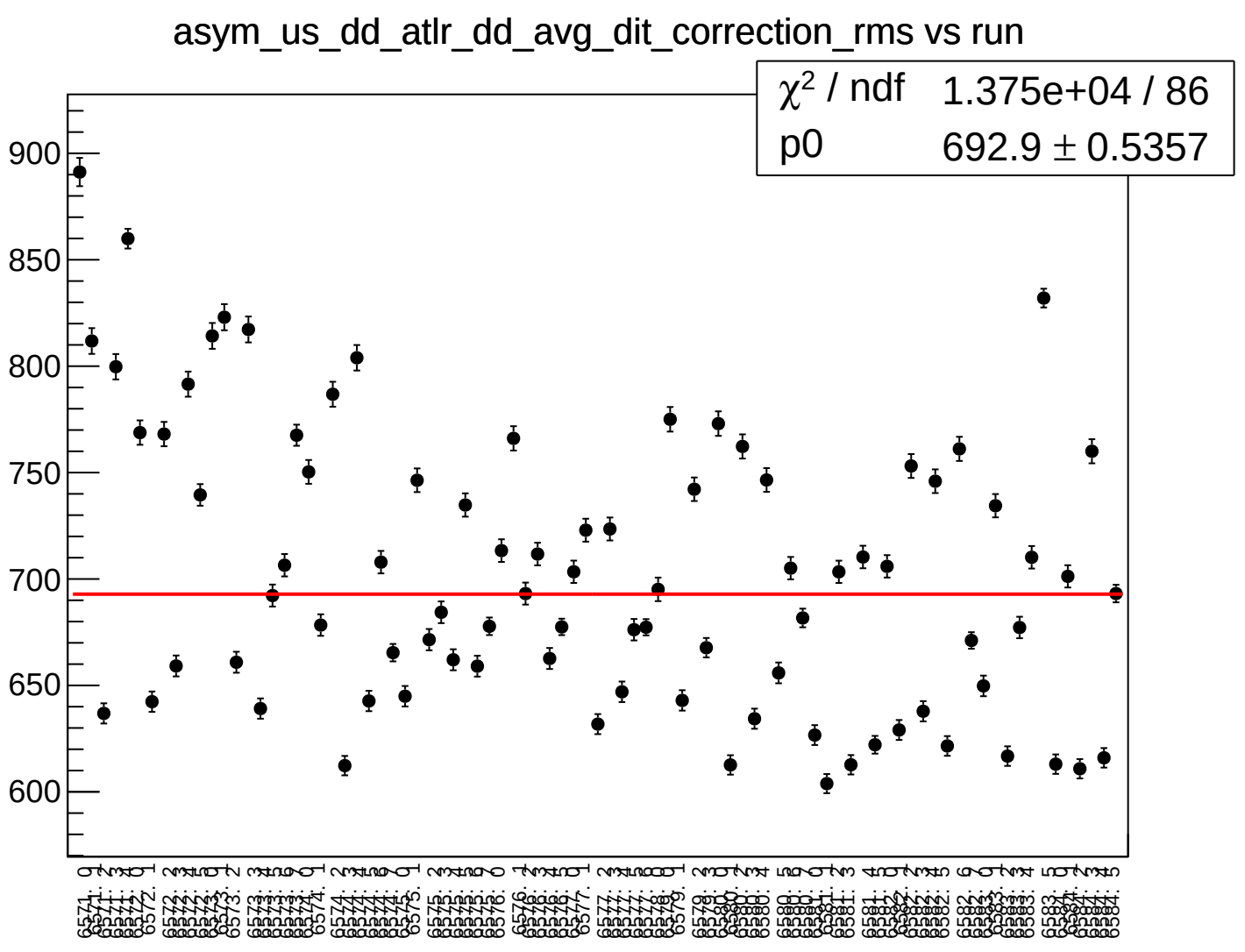

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.47 / 86
p0 689.9 ± 1993
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 215.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

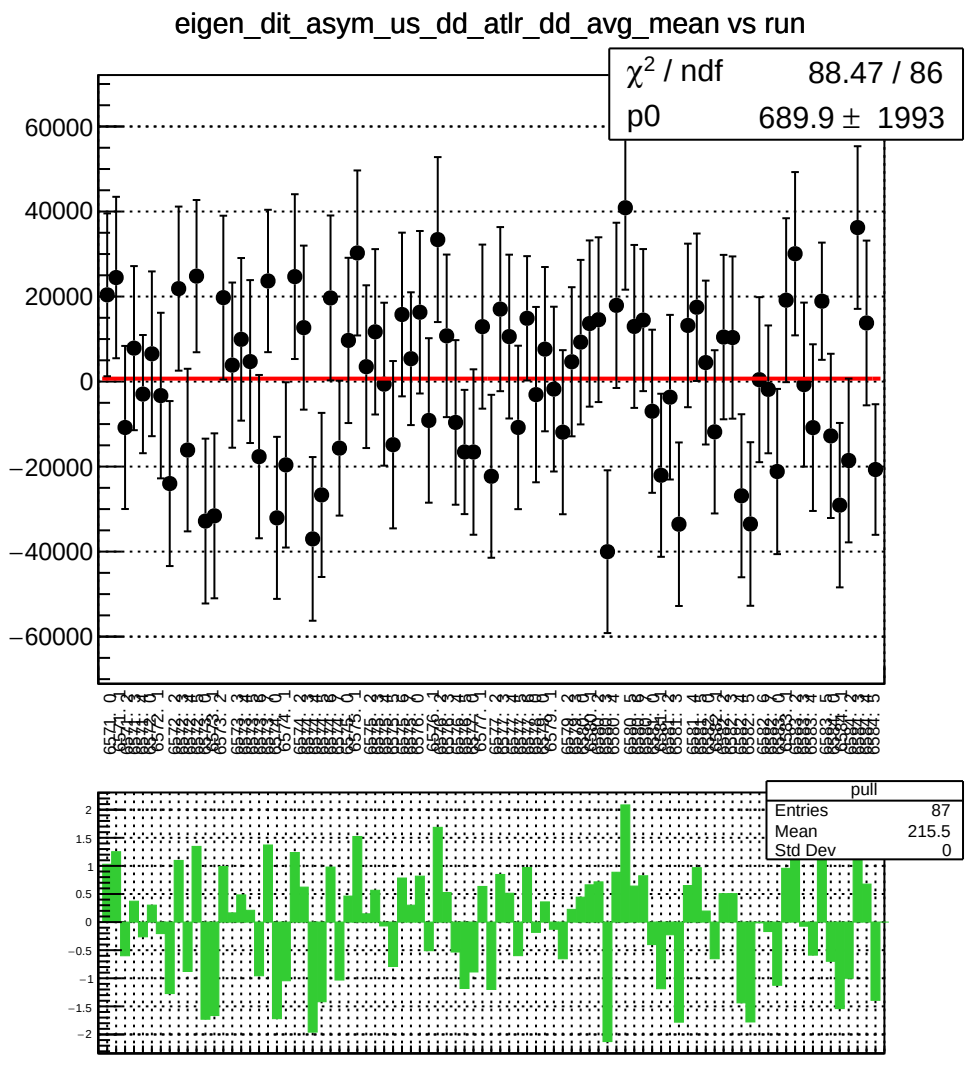

pull1D
Entries 87
Mean −0.0045
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

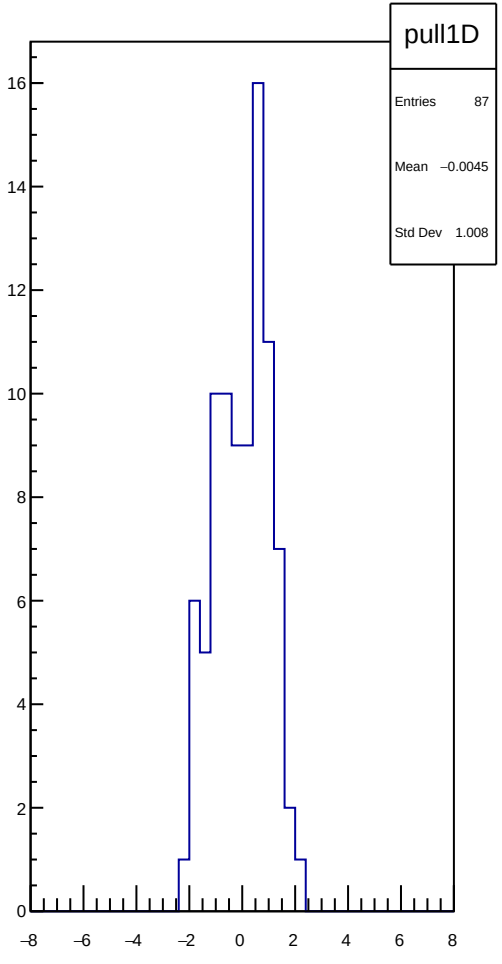

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 68.9 / 86
p0 1830 ± 1.409
1880
1860
1840
1820
1800
1780

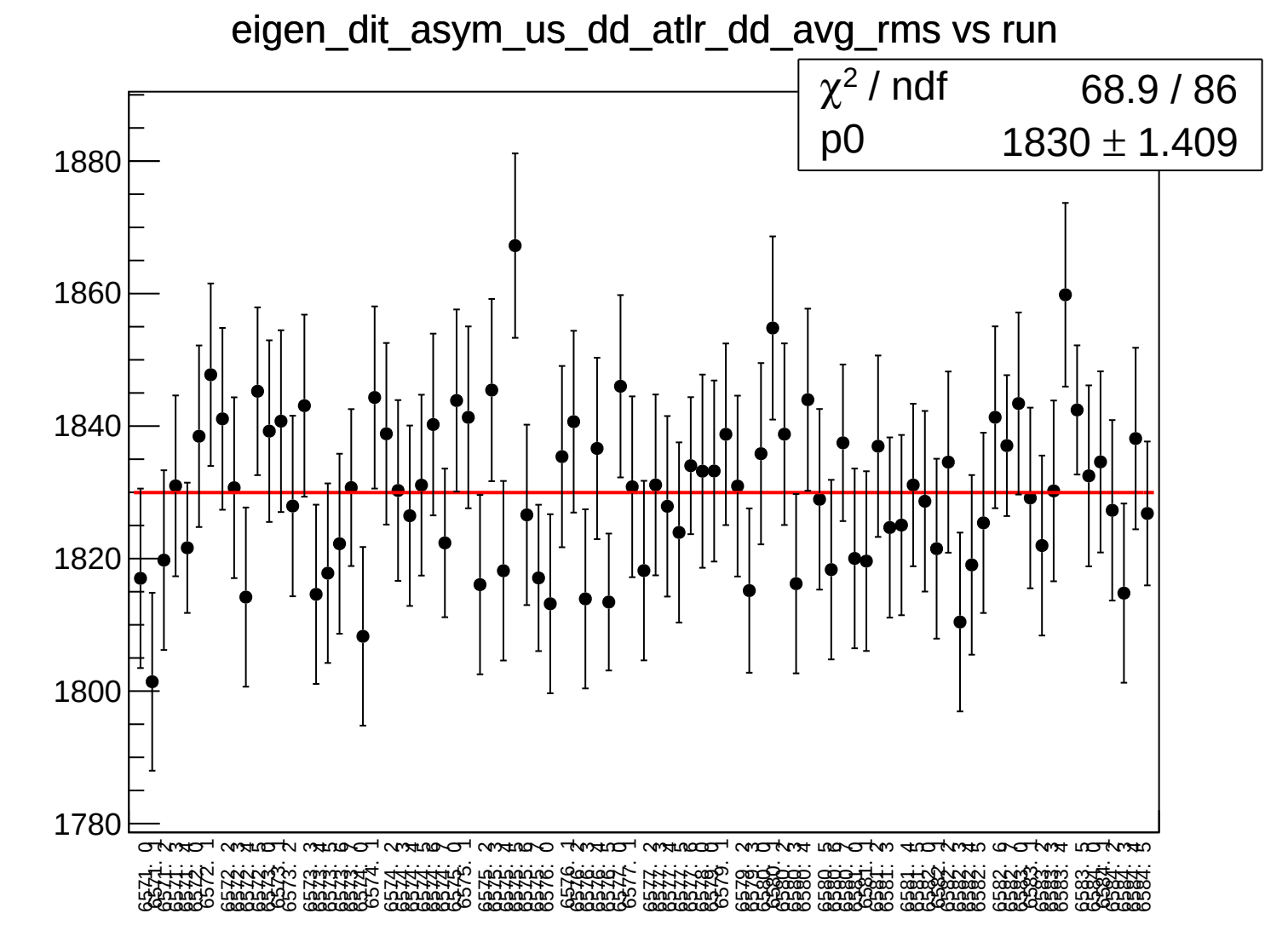

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 96.54 / 86
p0 −866.7 ± 757.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −183.3
Std Dev 0
3
2
1
0
−1
−2

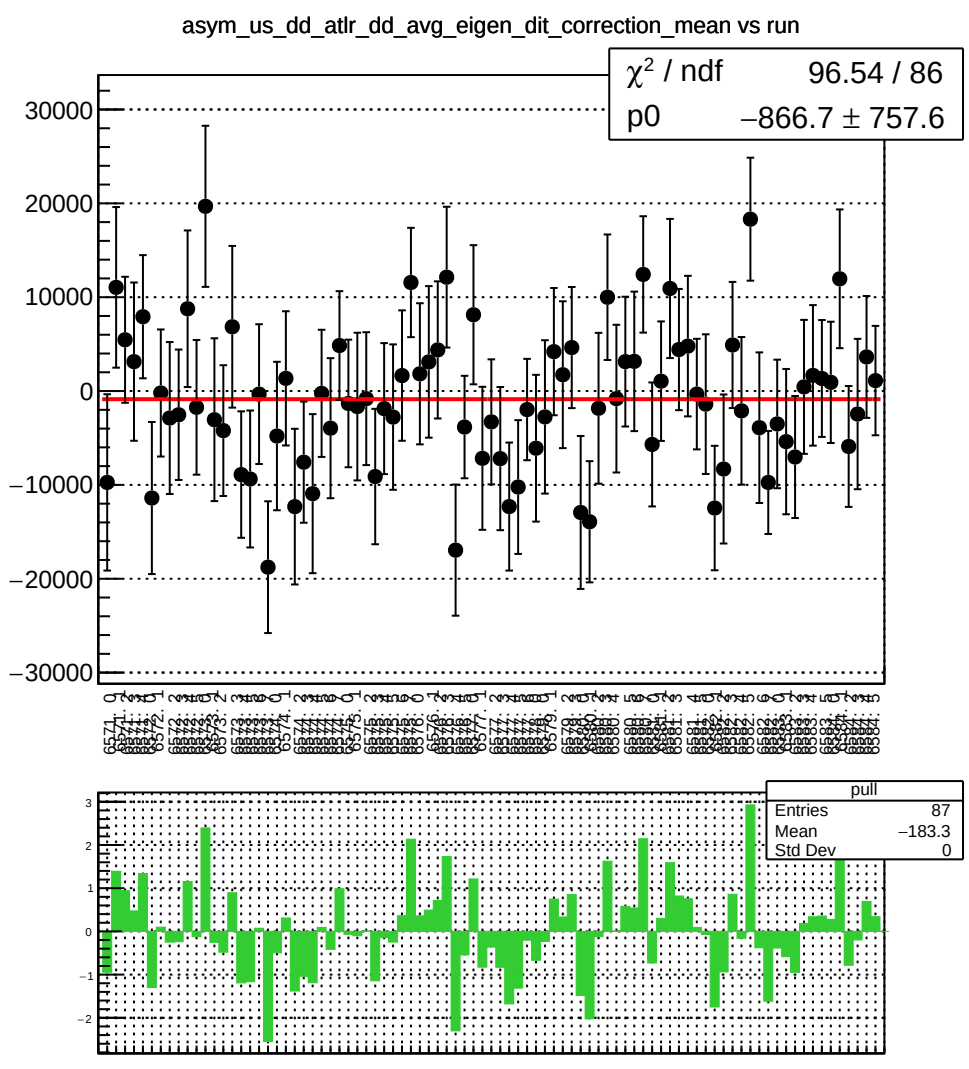

pull1D
Entries 87
Mean −0.006415
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

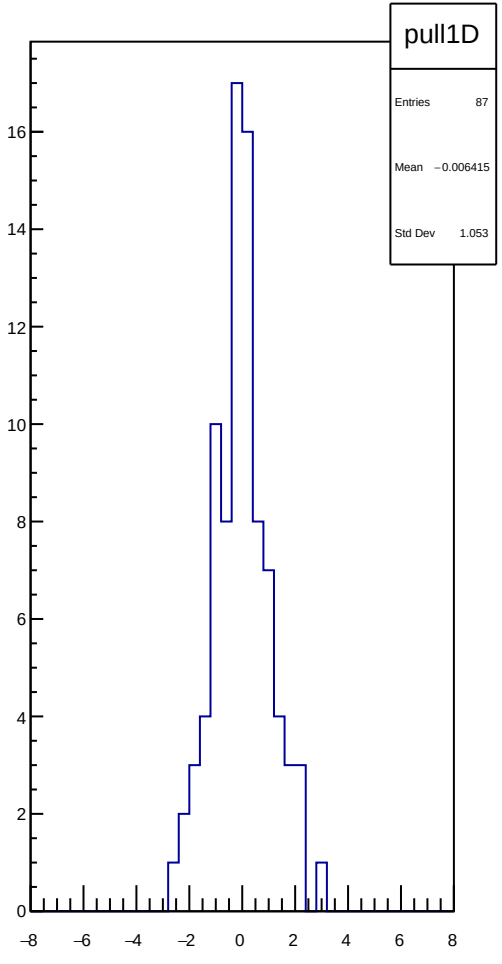

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.375e+04 / 86
p0 692.9 ± 0.5357
900
850
800
750
700
650
600

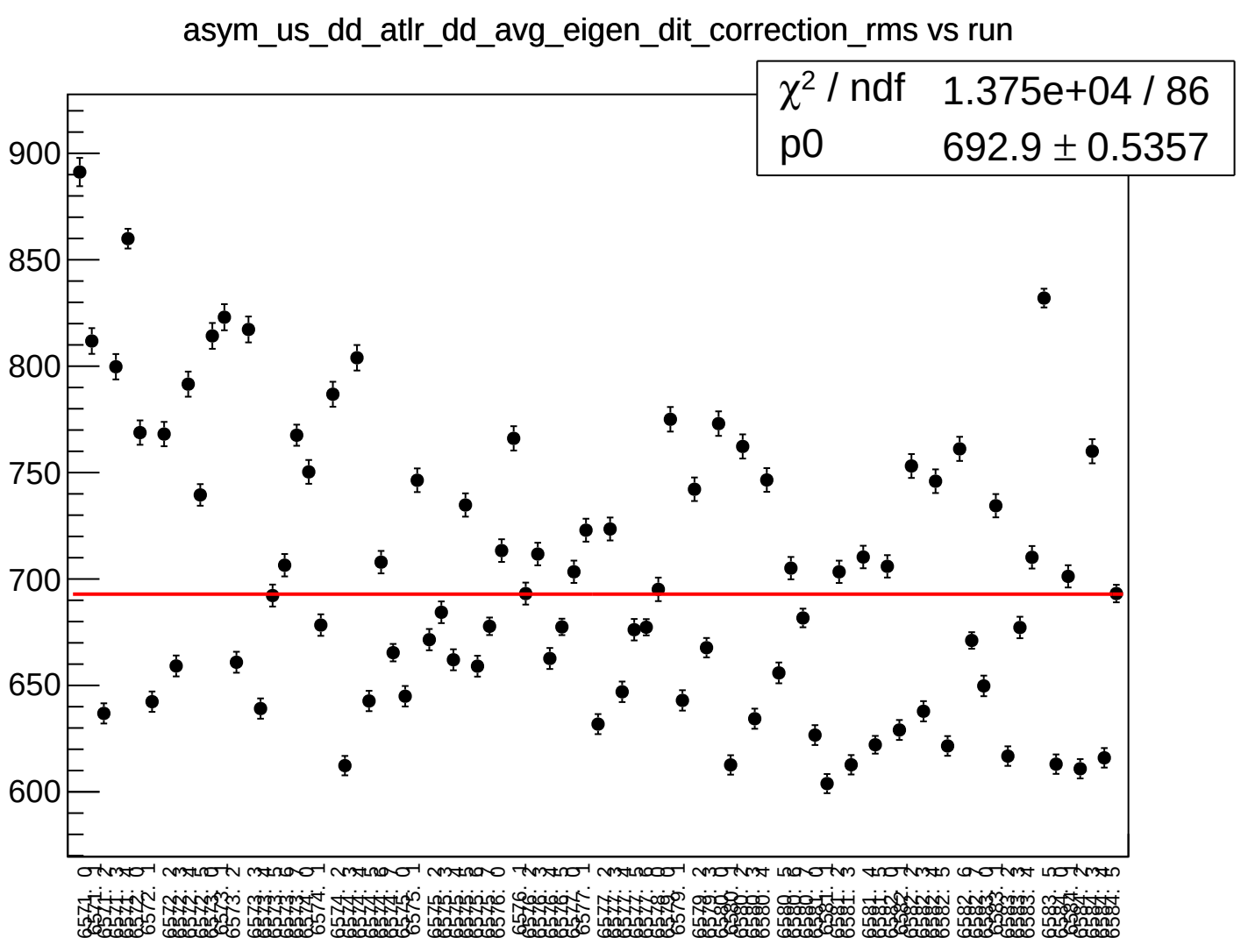

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.47 / 86
p0 689.9 ± 1993
pull
Entries 87
Mean 215.5
Std Dev 0

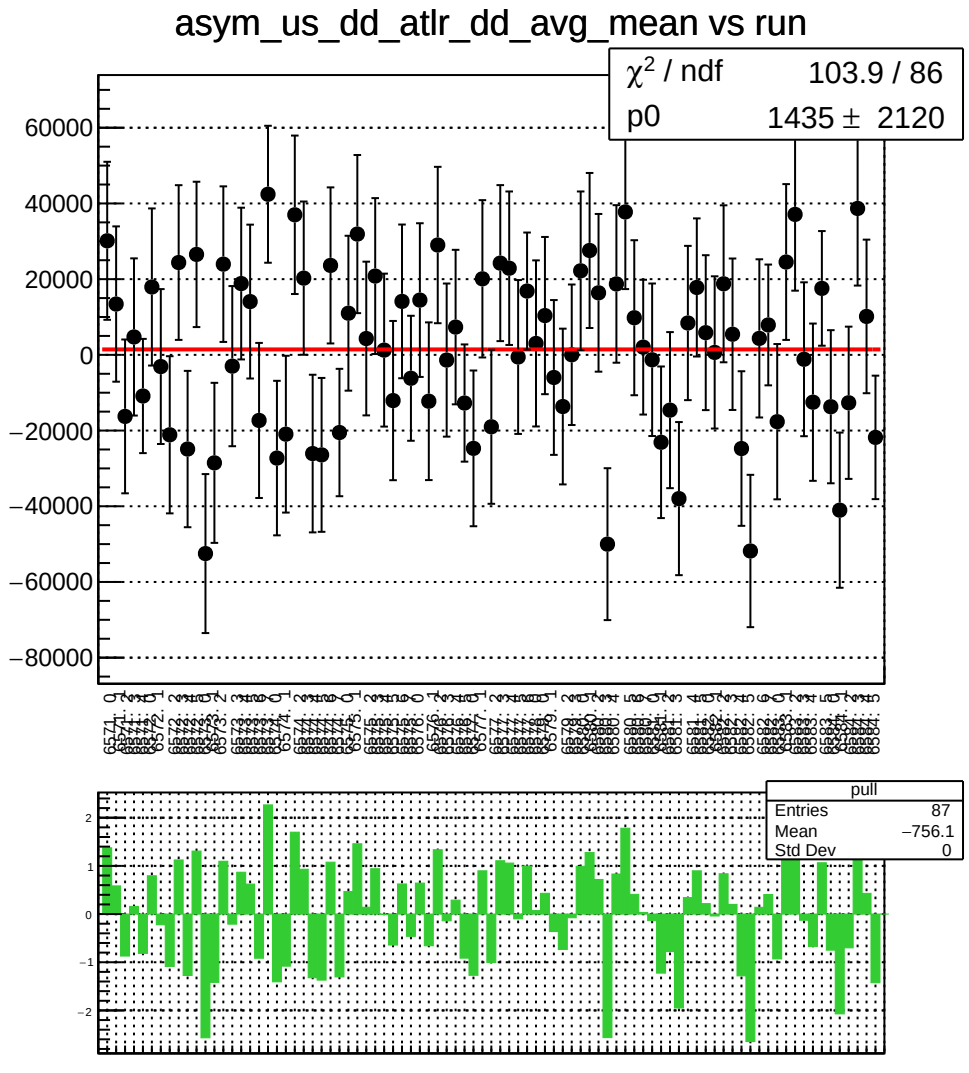

pull1D
Entries 87
Mean −0.0045
Std Dev 1.008

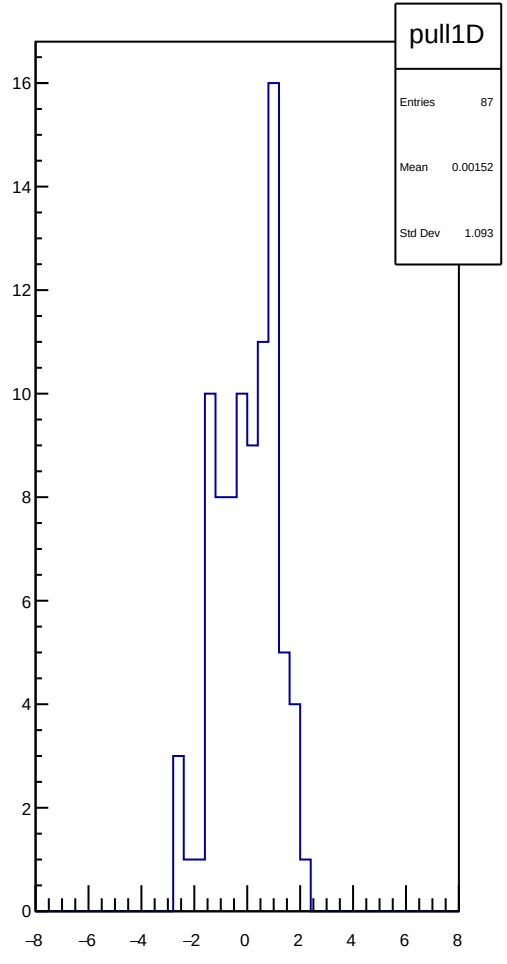

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 68.9 / 86
p0 1830 ± 1.409
1880
1860
1840
1820
1800
1780

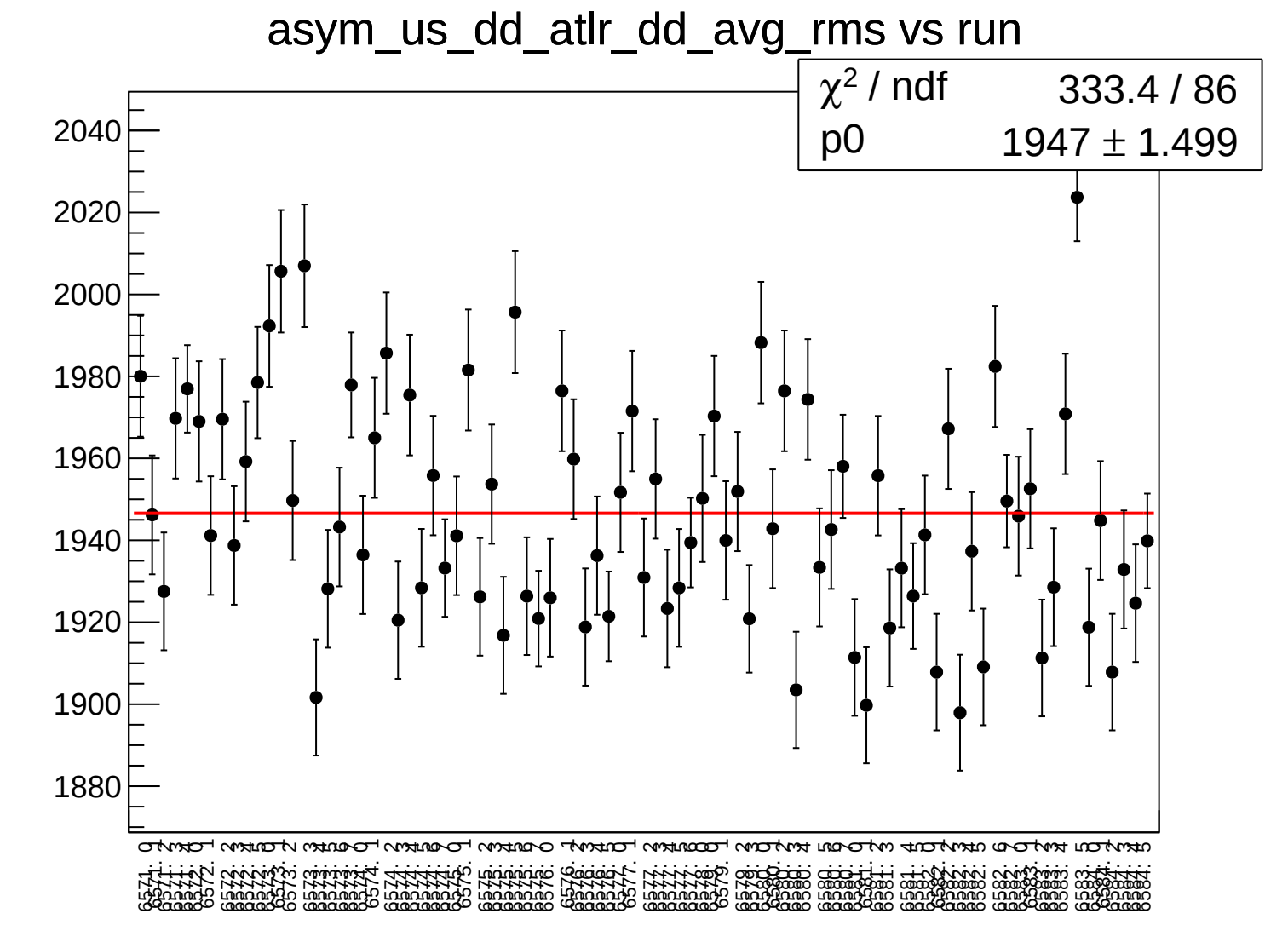

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.54 / 86
p0 −866.7 ± 757.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −183.3
Std Dev 0
3
2
1
0
−1
−2

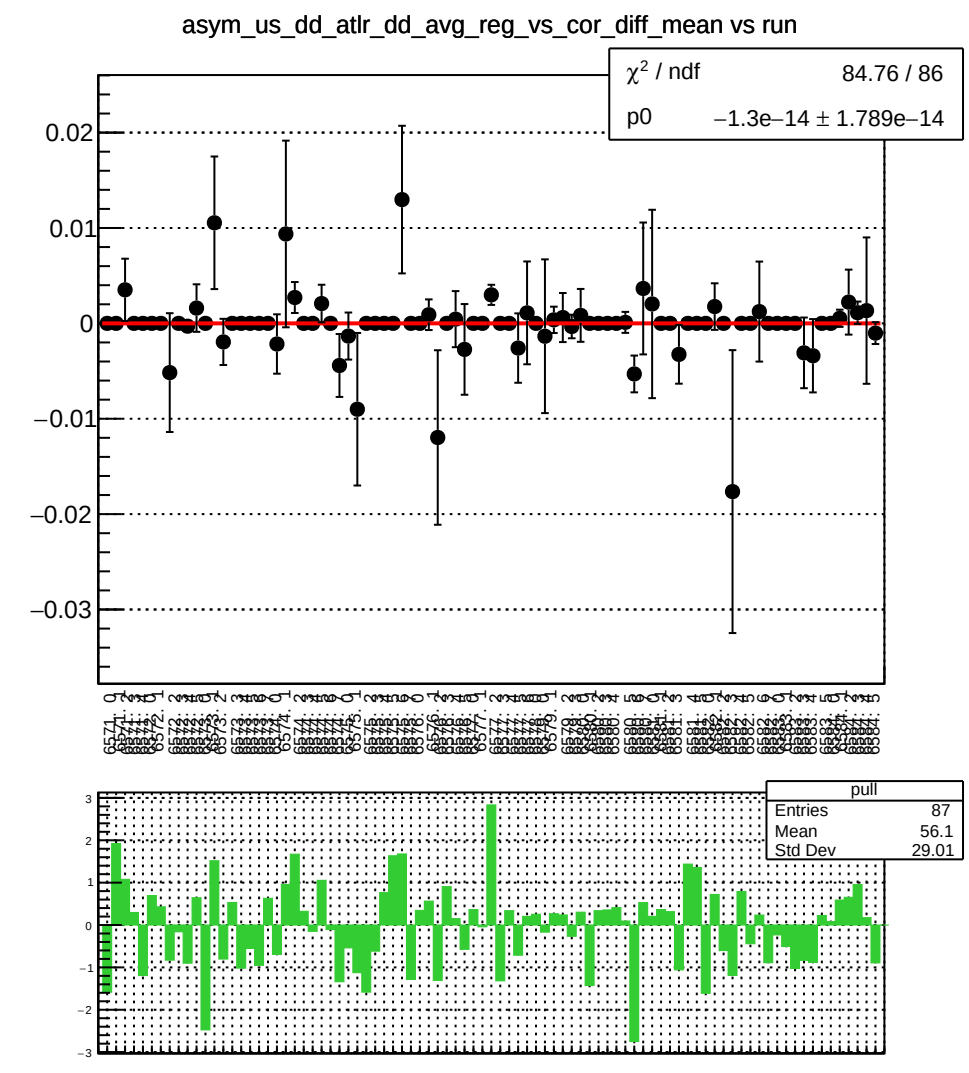

pull1D
Entries 87
Mean −0.006415
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

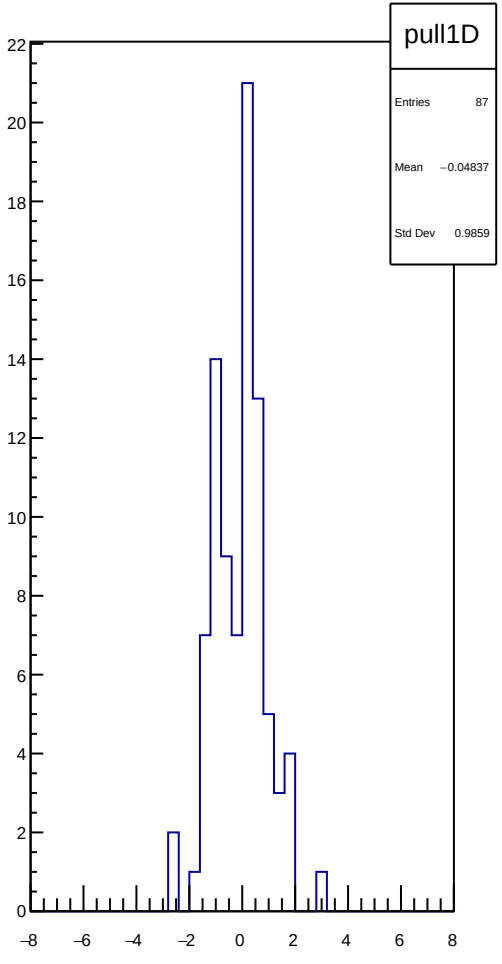

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.375e+04 / 86
p0 692.9 ± 0.5357
900
850
800
750
700
650
600

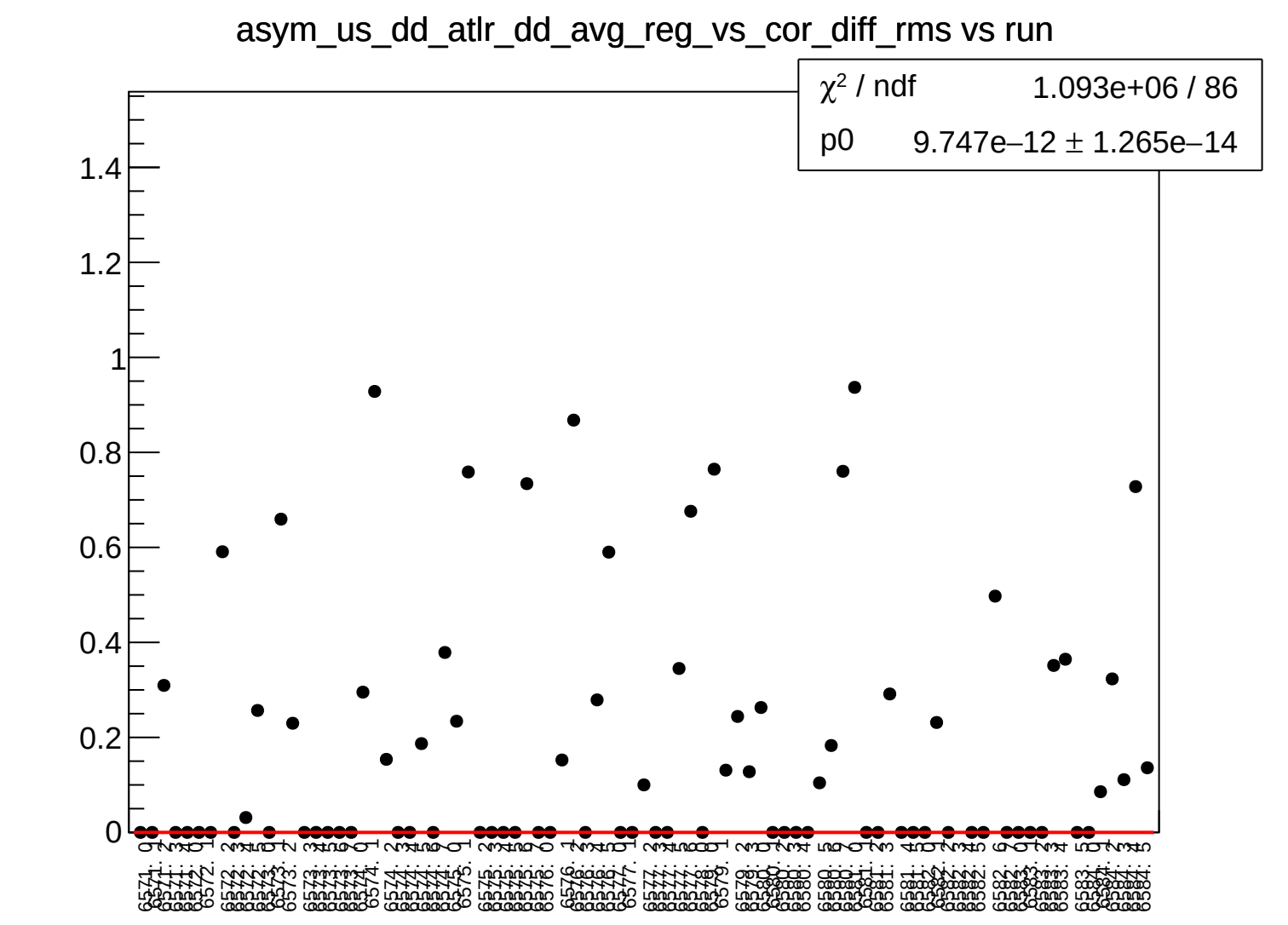

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 103.9 / 86
p0 1435 ± 2120
pull
Entries 87
Mean −756.1
Std Dev 0

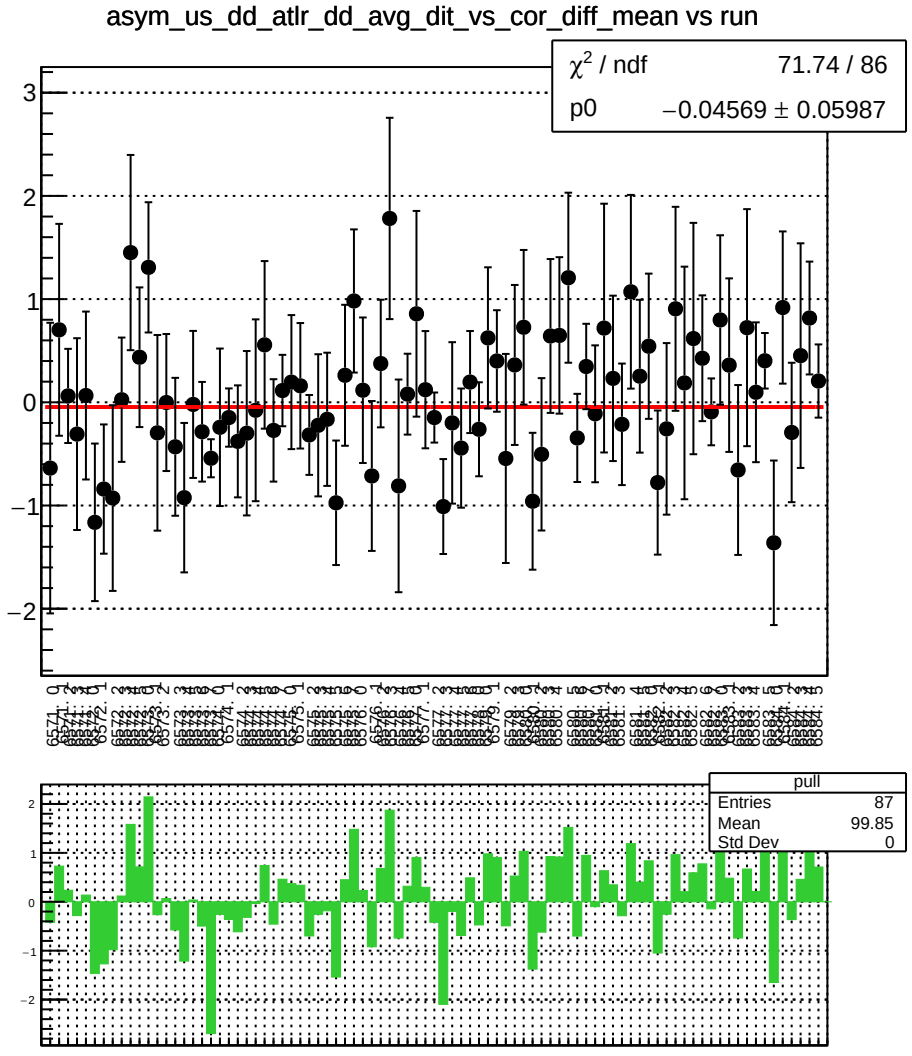

pull1D
Entries 87
Mean 0.00152
Std Dev 1.093

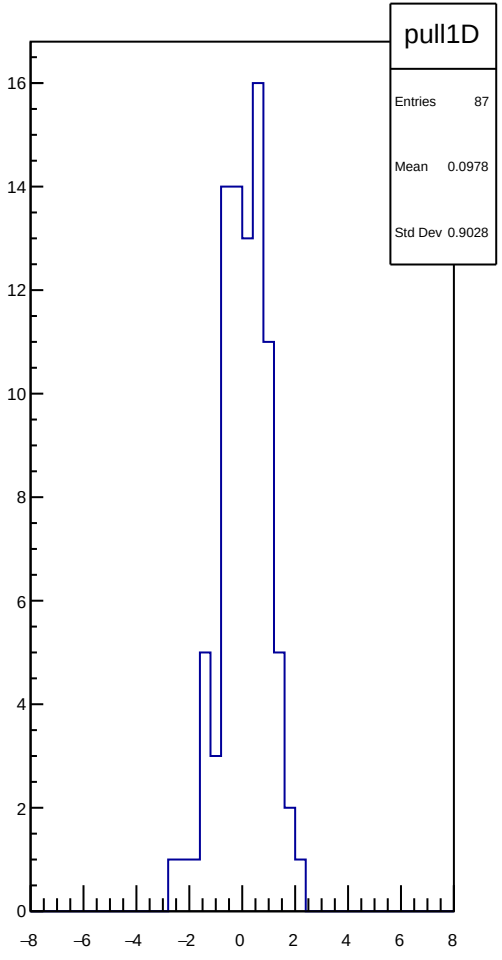

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 333.4 / 86
p0 1947 ± 1.499
2040
2020
2000
1980
1960
1940
1920
1900
1880

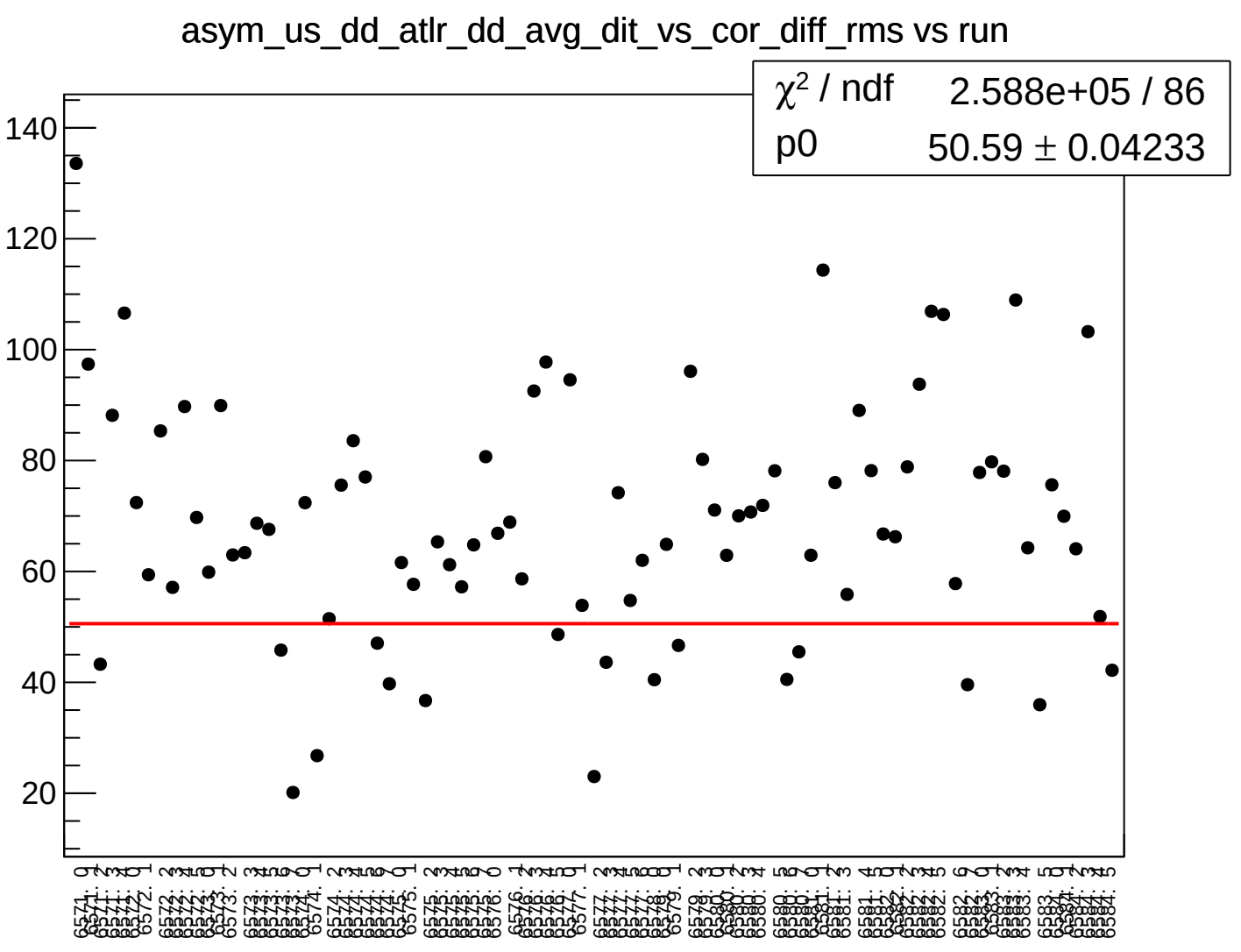

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.76 / 86
p0 −1.3e−14 ± 1.789e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 56.1
Std Dev 29.01
3
2
1
0
−1
−2
−3

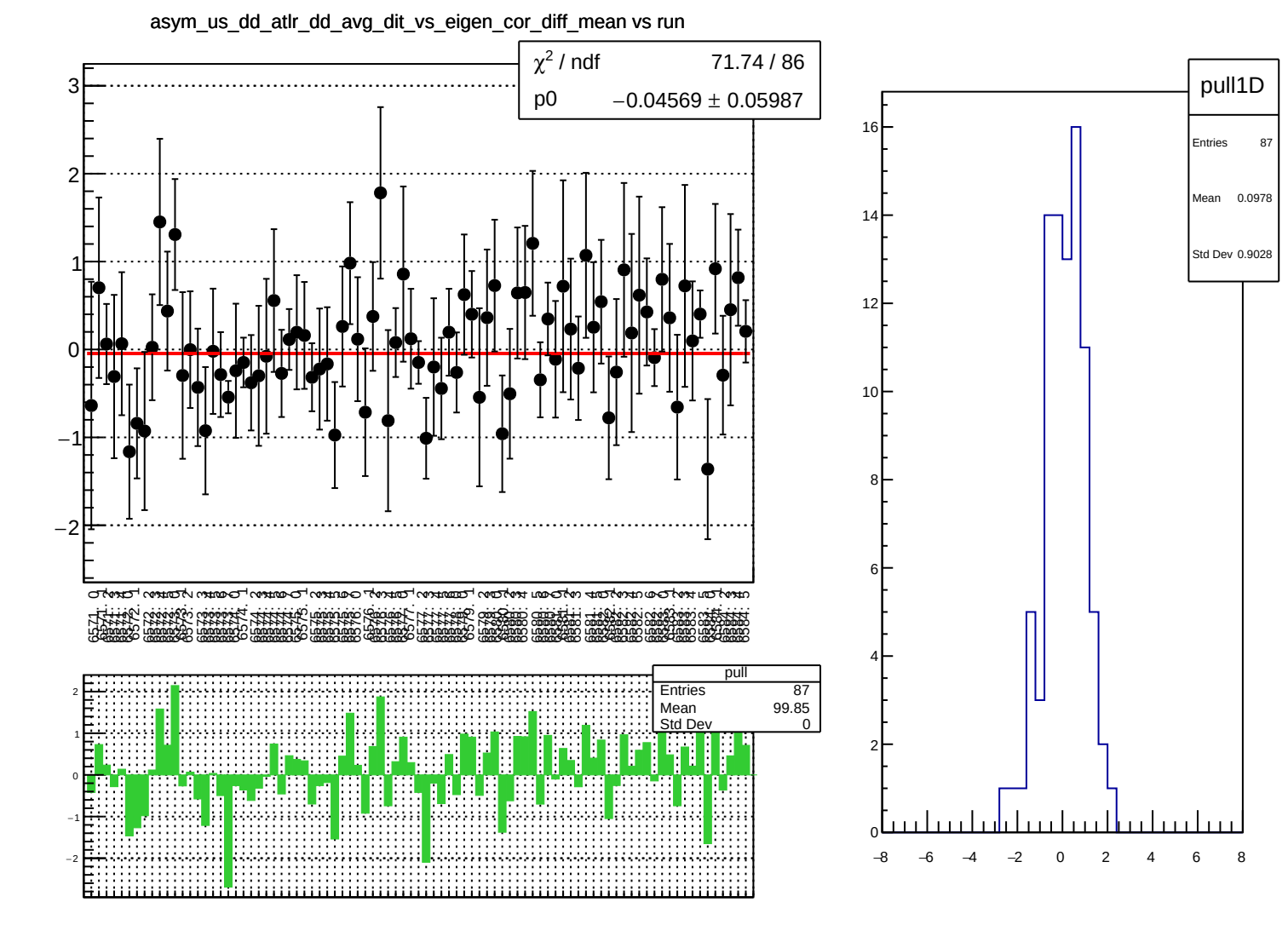

pull1D
Entries 87
Mean −0.04837
Std Dev 0.9859
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

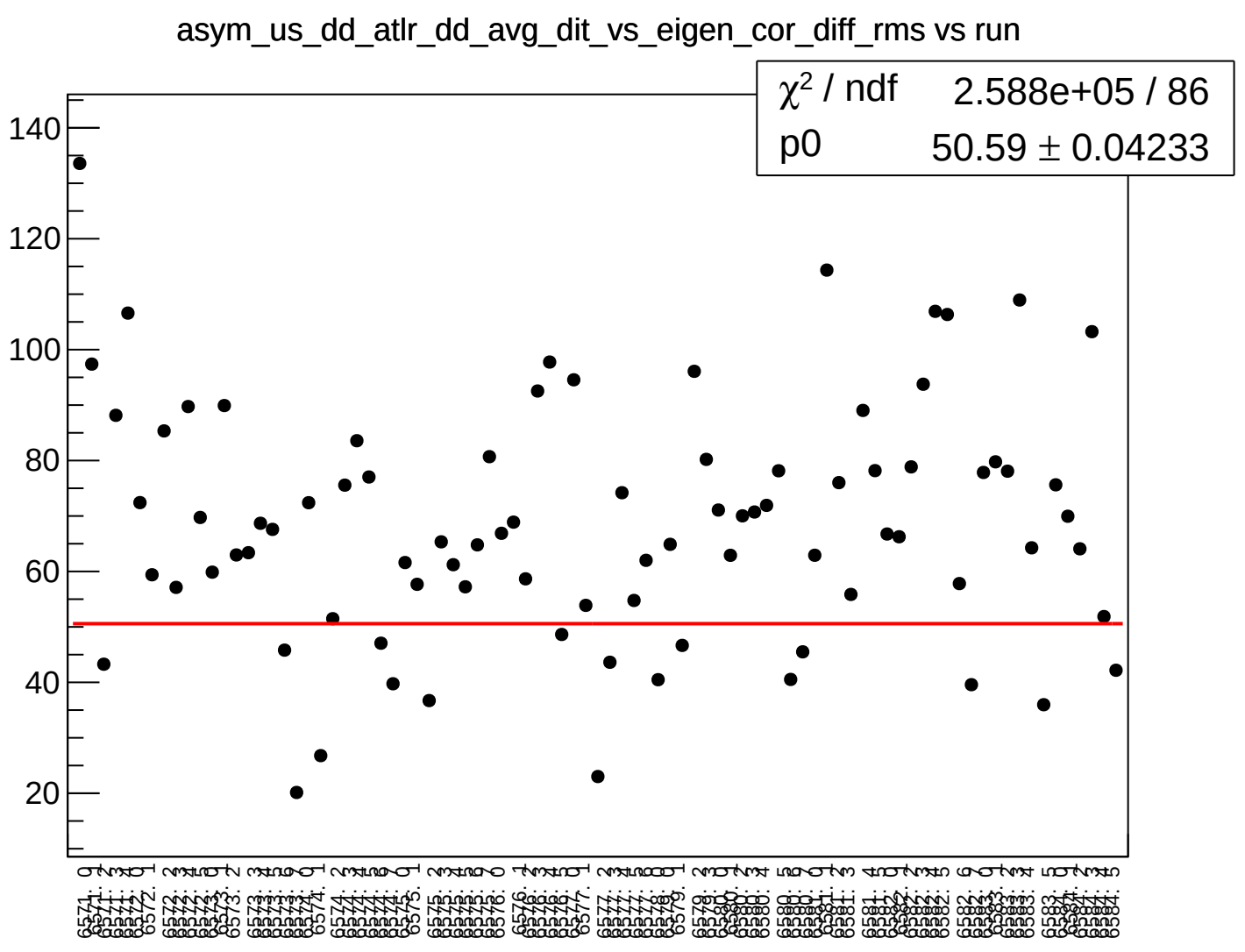

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 86
p0 9.747e−12 ± 1.265e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

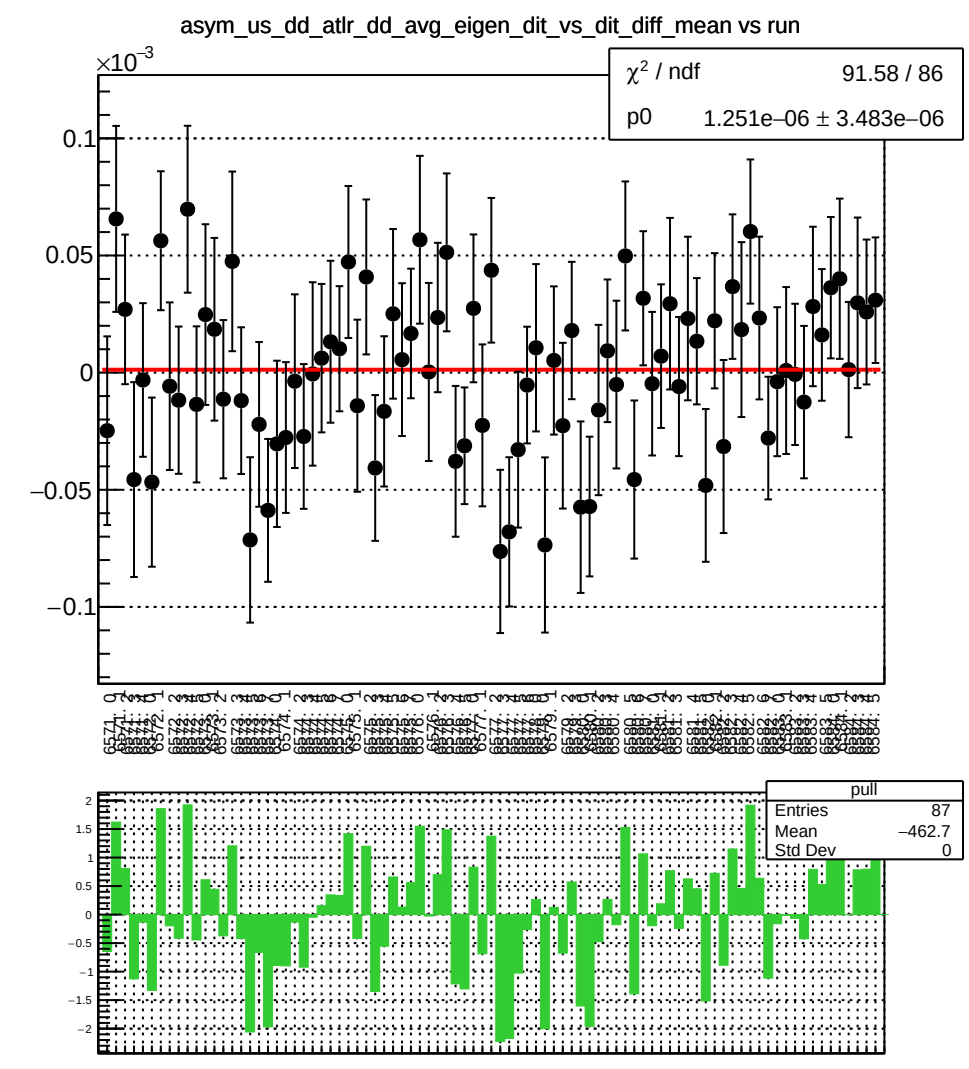

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.74 / 86
p0 −0.04569 ± 0.05987
pull
Entries 87
Mean 99.85
Std Dev 0

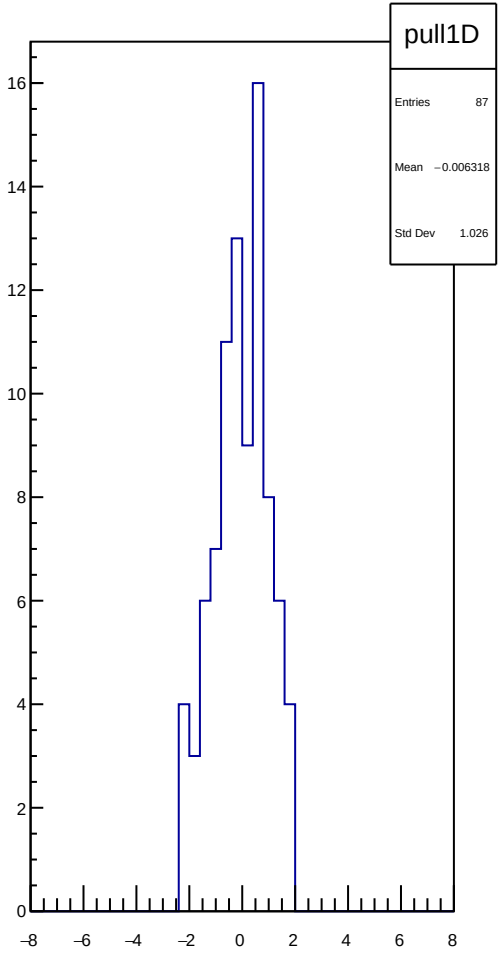

pull1D
Entries 87
Mean 0.0978
Std Dev 0.9028

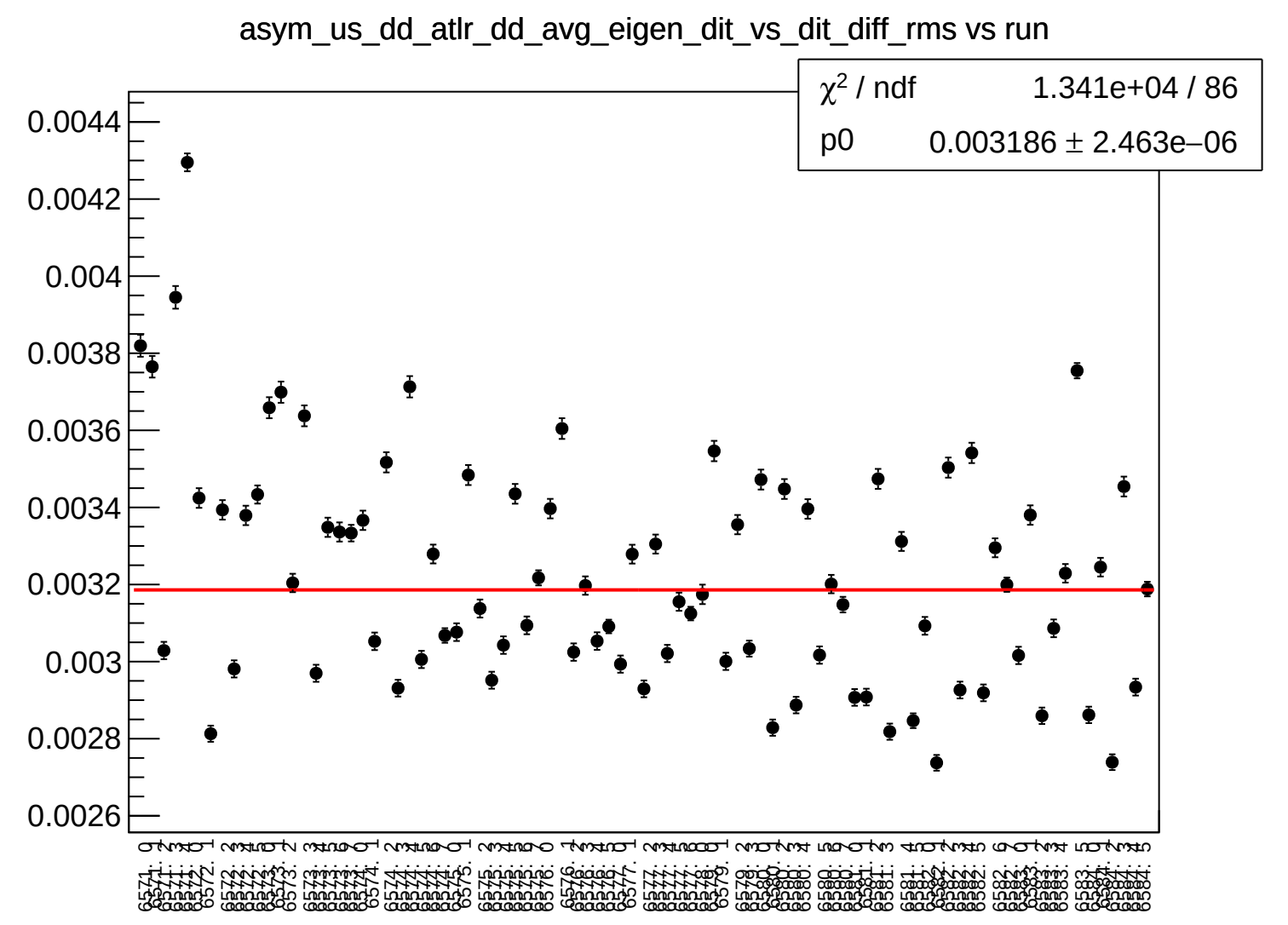

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.588e+05 / 86
p0 50.59 ± 0.04233
140
120
100
80
60
40
20

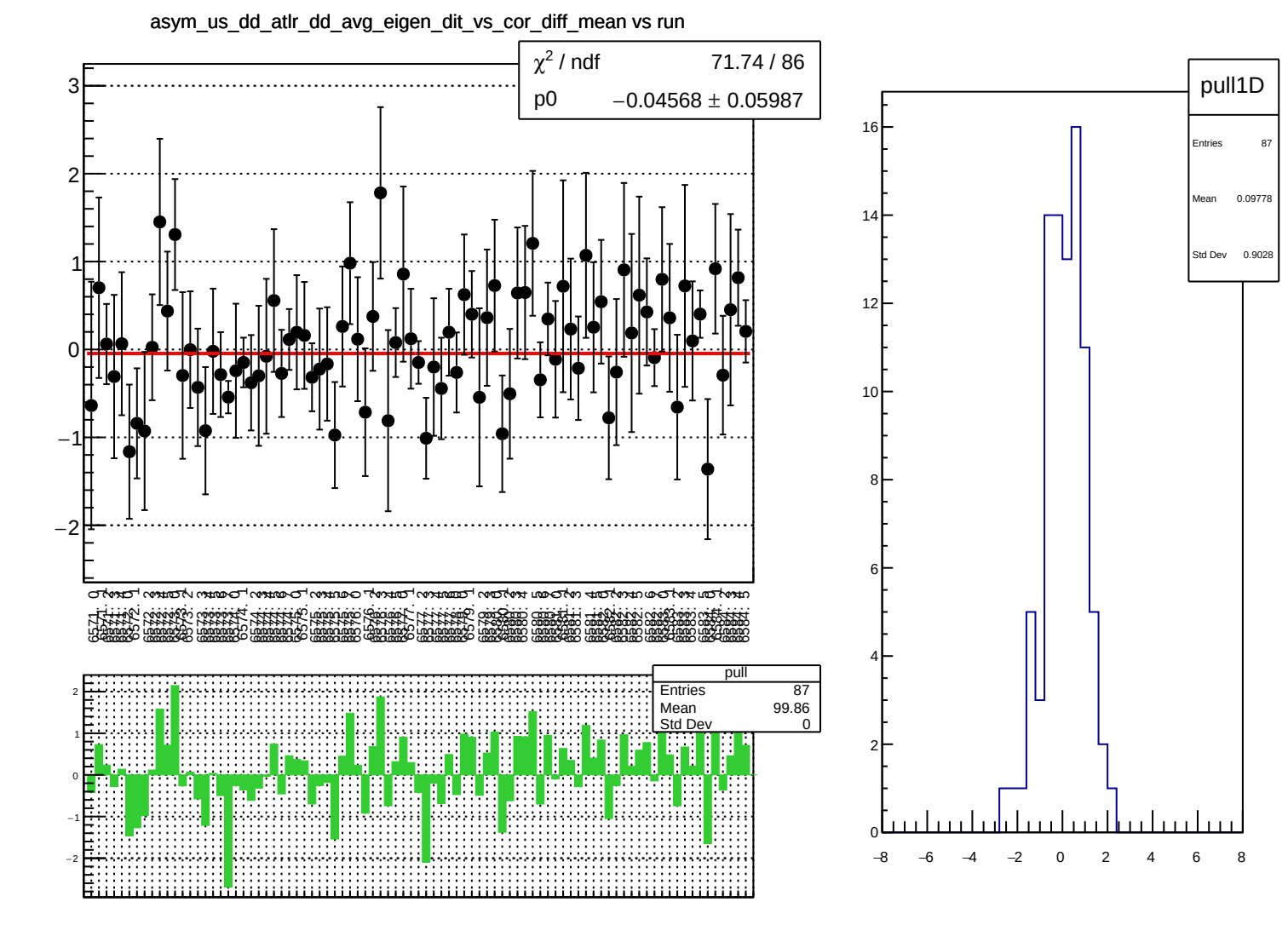

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.74 / 86
p0 −0.04569 ± 0.05987
pull
Entries 87
Mean 99.85
Std Dev 0
pull1D
Entries 87
Mean 0.0978
Std Dev 0.9028

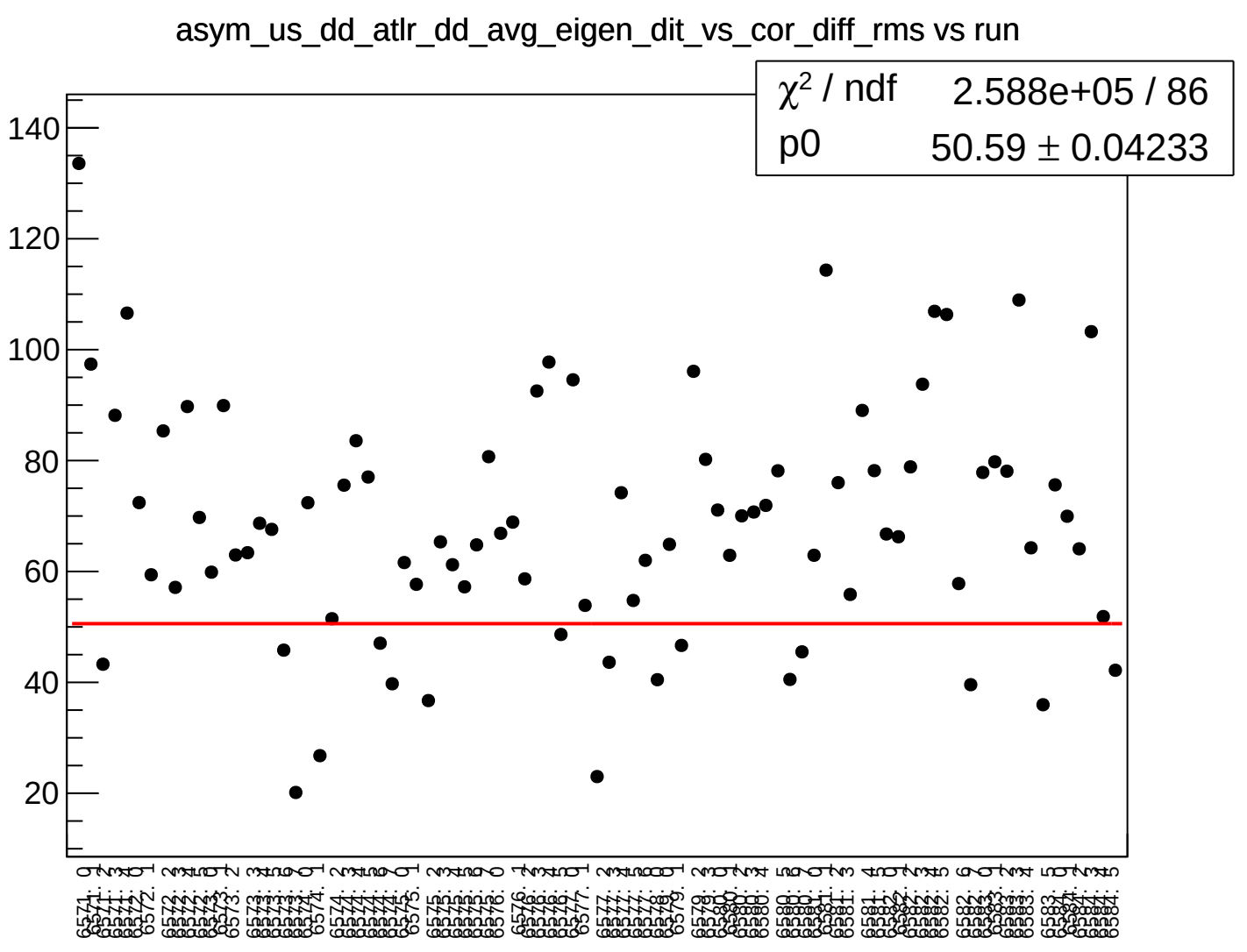

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.588e+05 / 86
p0 50.59 ± 0.04233
140
120
100
80
60
40
20

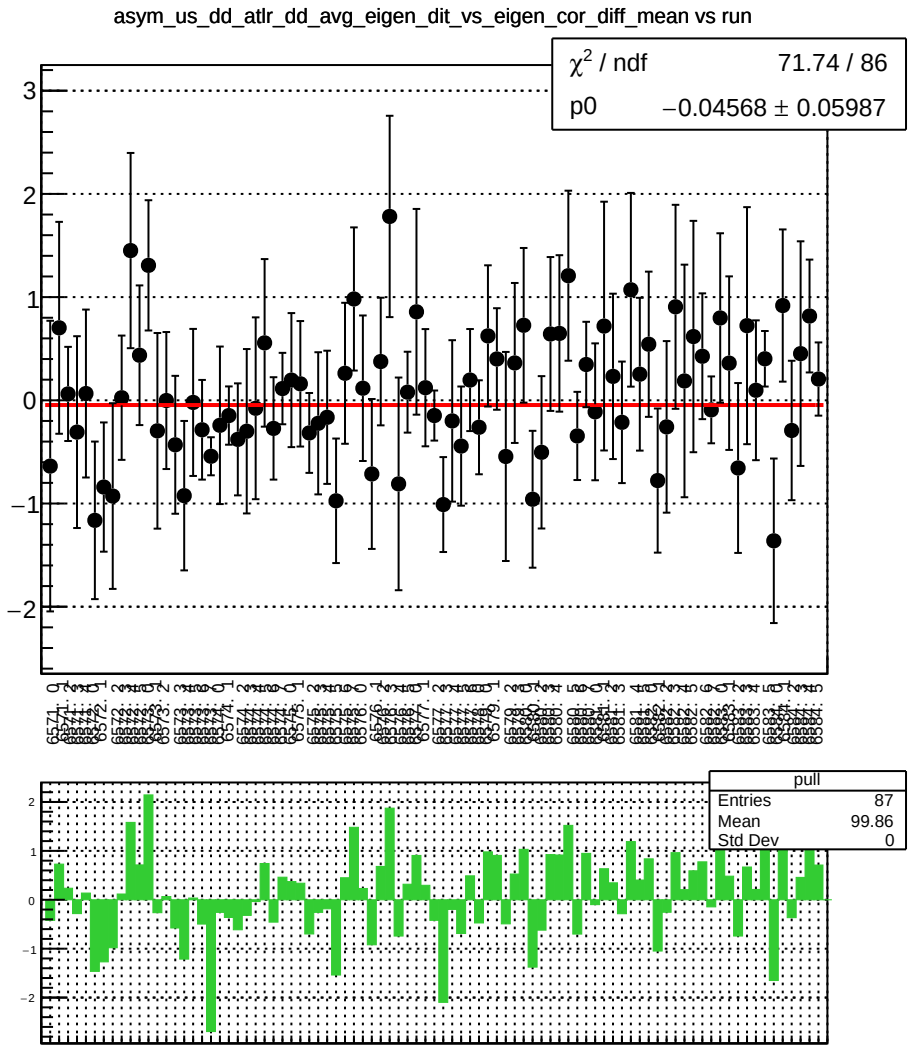

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.58 / 86
p0 1.251e−06 ± 3.483e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −462.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

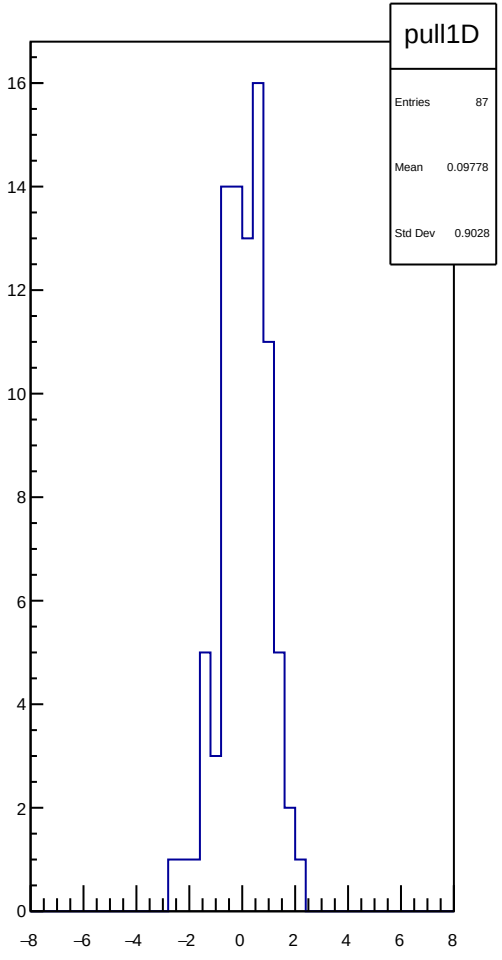

pull1D
Entries 87
Mean −0.006318
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

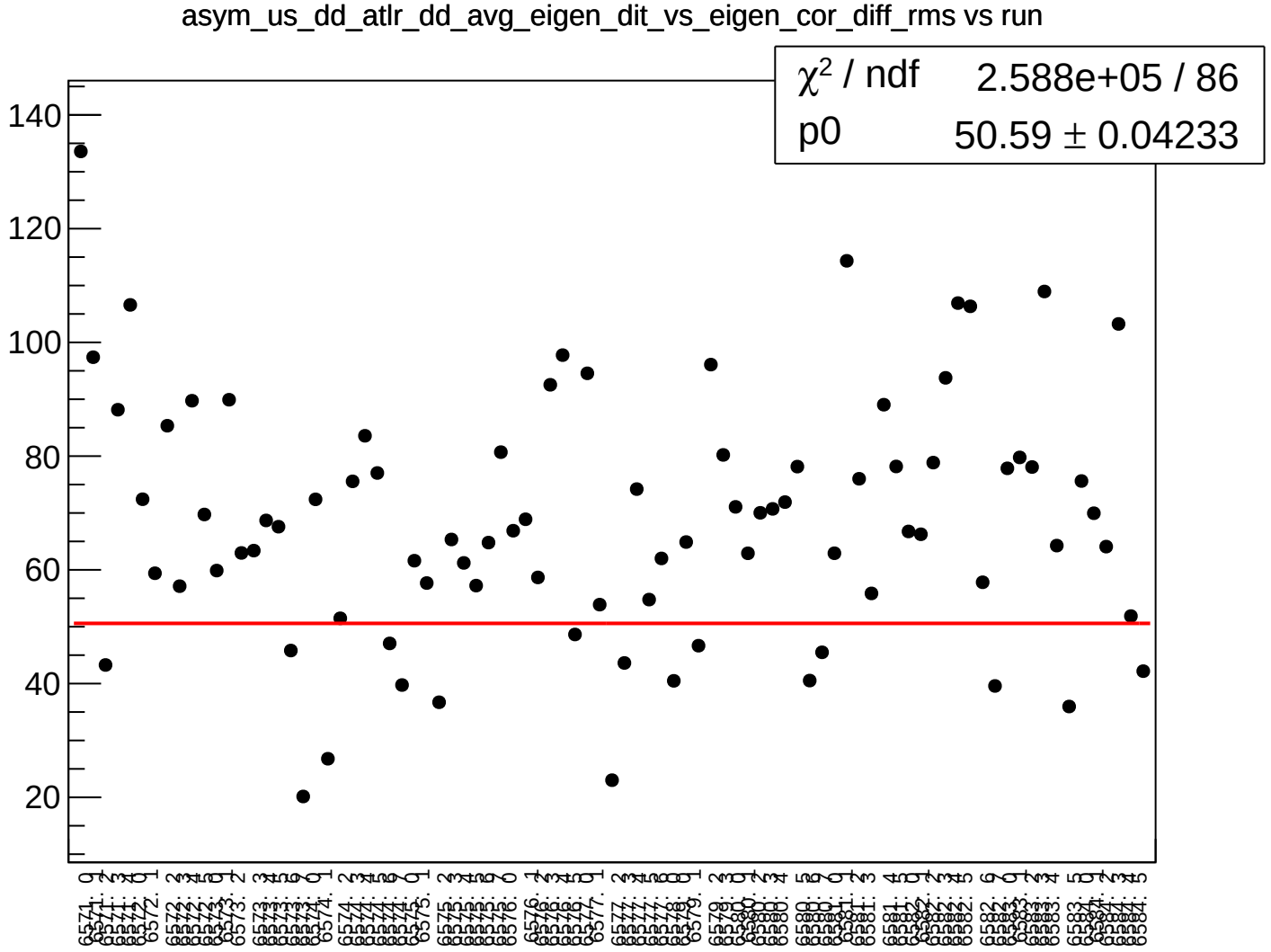

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.341e+04 / 86
p0 0.003186 ± 2.463e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

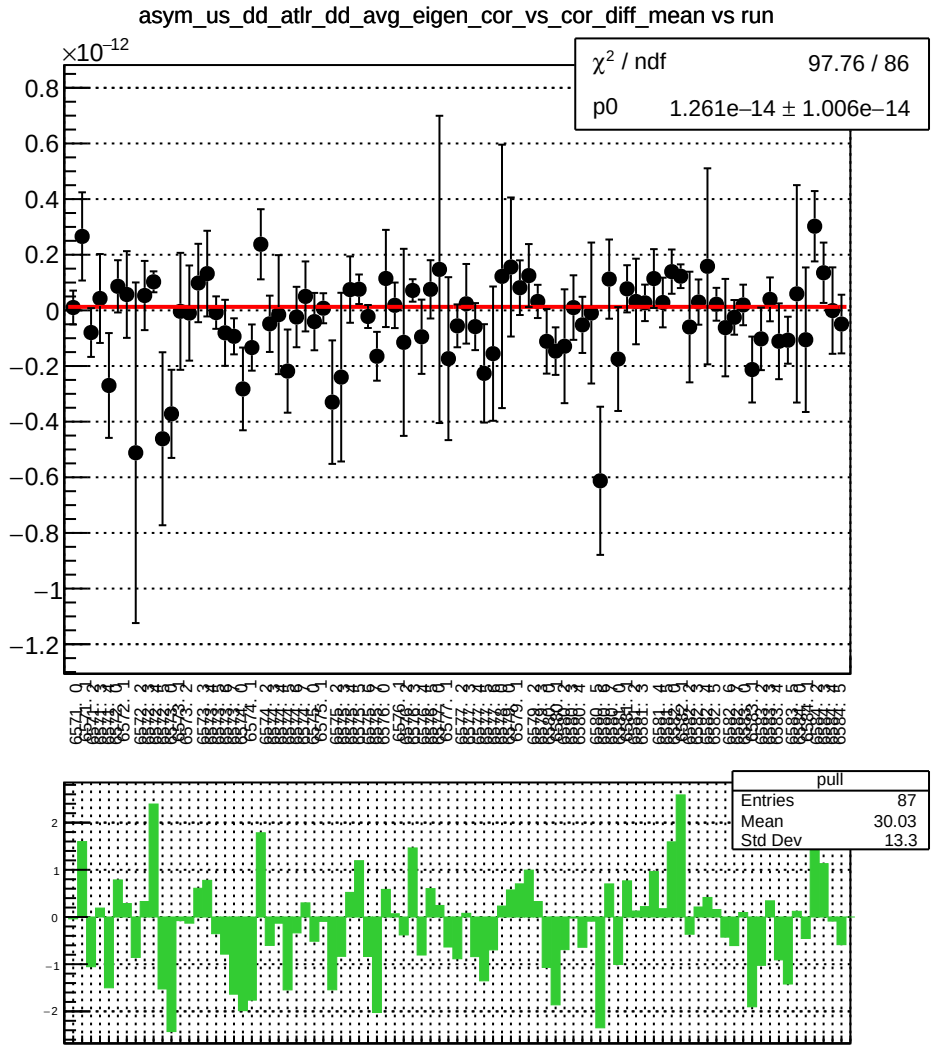

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.74 / 86
p0 −0.04568 ± 0.05987
pull
Entries 87
Mean 99.86
Std Dev 0
pull1D
Entries 87
Mean 0.09778
Std Dev 0.9028

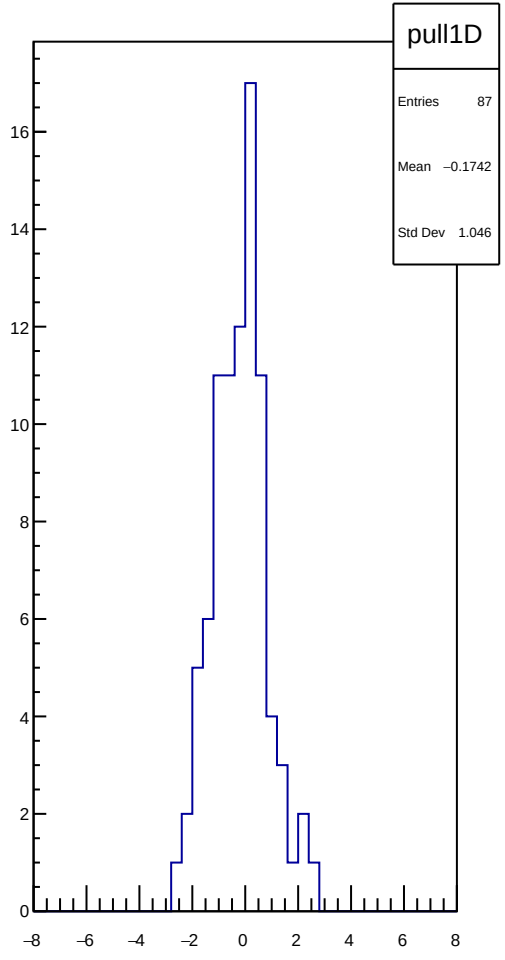

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.588e+05 / 86
p0 50.59 ± 0.04233
140
120
100
80
60
40
20

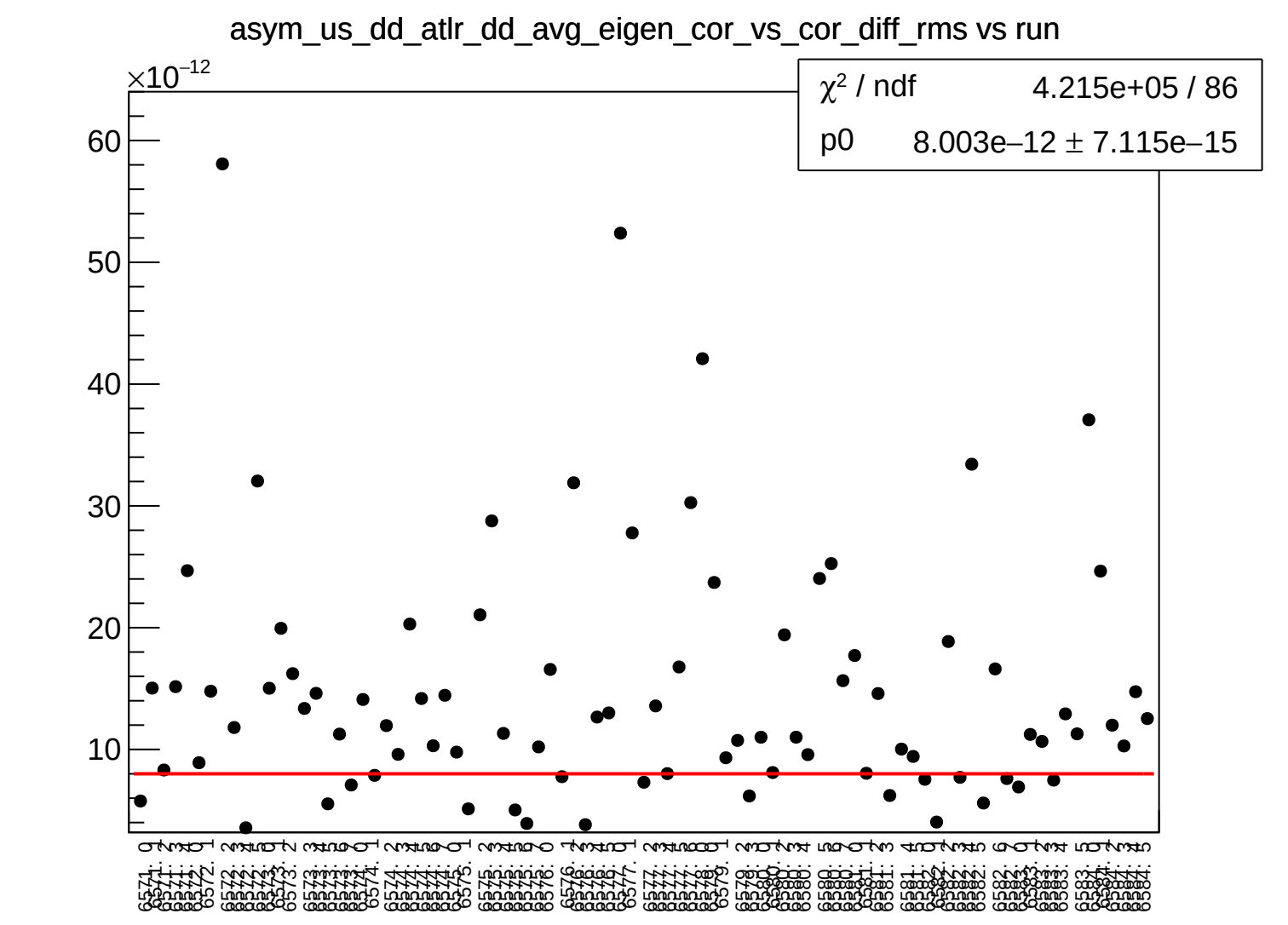

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.74 / 86
p0 −0.04568 ± 0.05987
pull
Entries 87
Mean 99.86
Std Dev 0

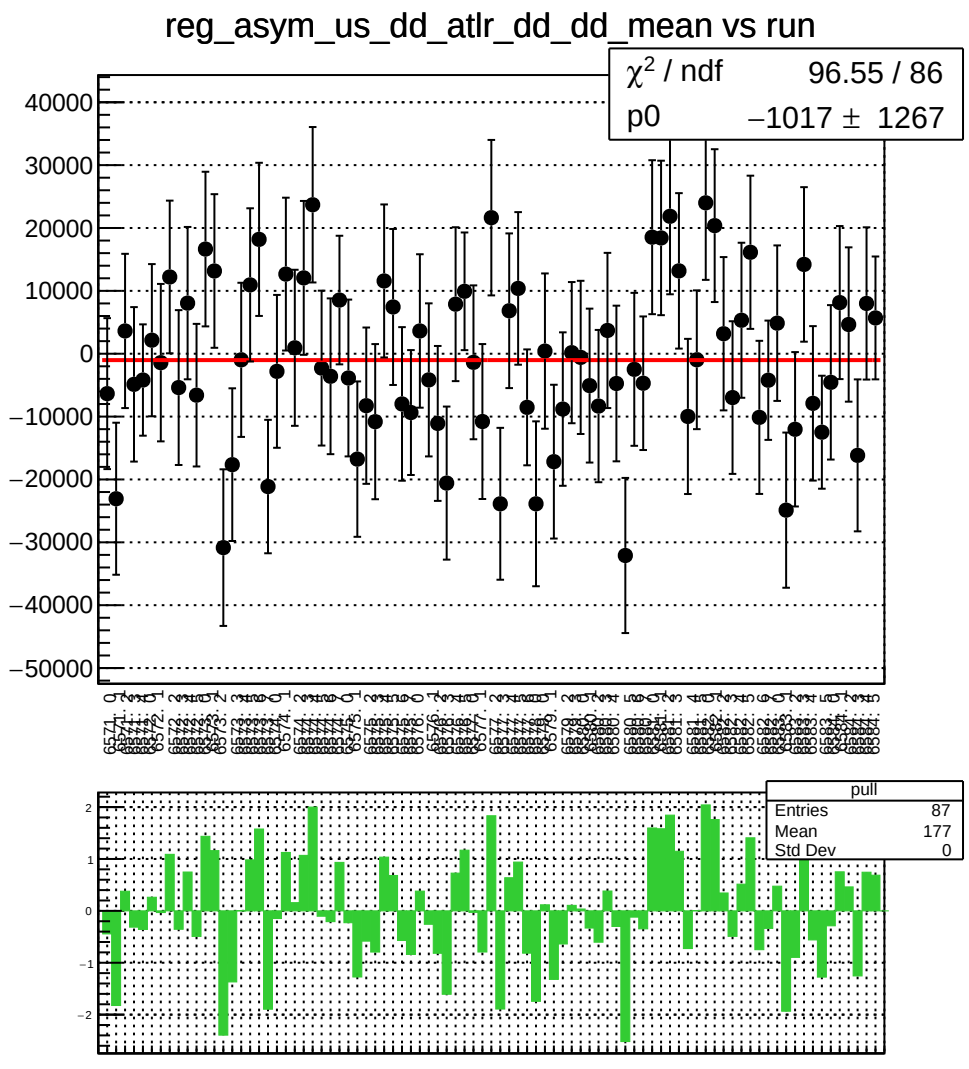

pull1D
Entries 87
Mean 0.09778
Std Dev 0.9028

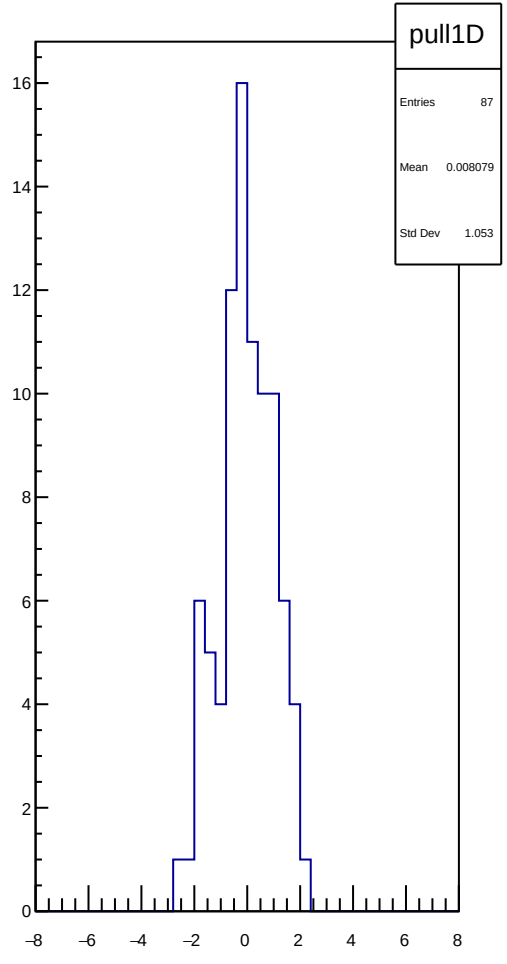

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.588e+05 / 86
p0 50.59 ± 0.04233
140
120
100
80
60
40
20

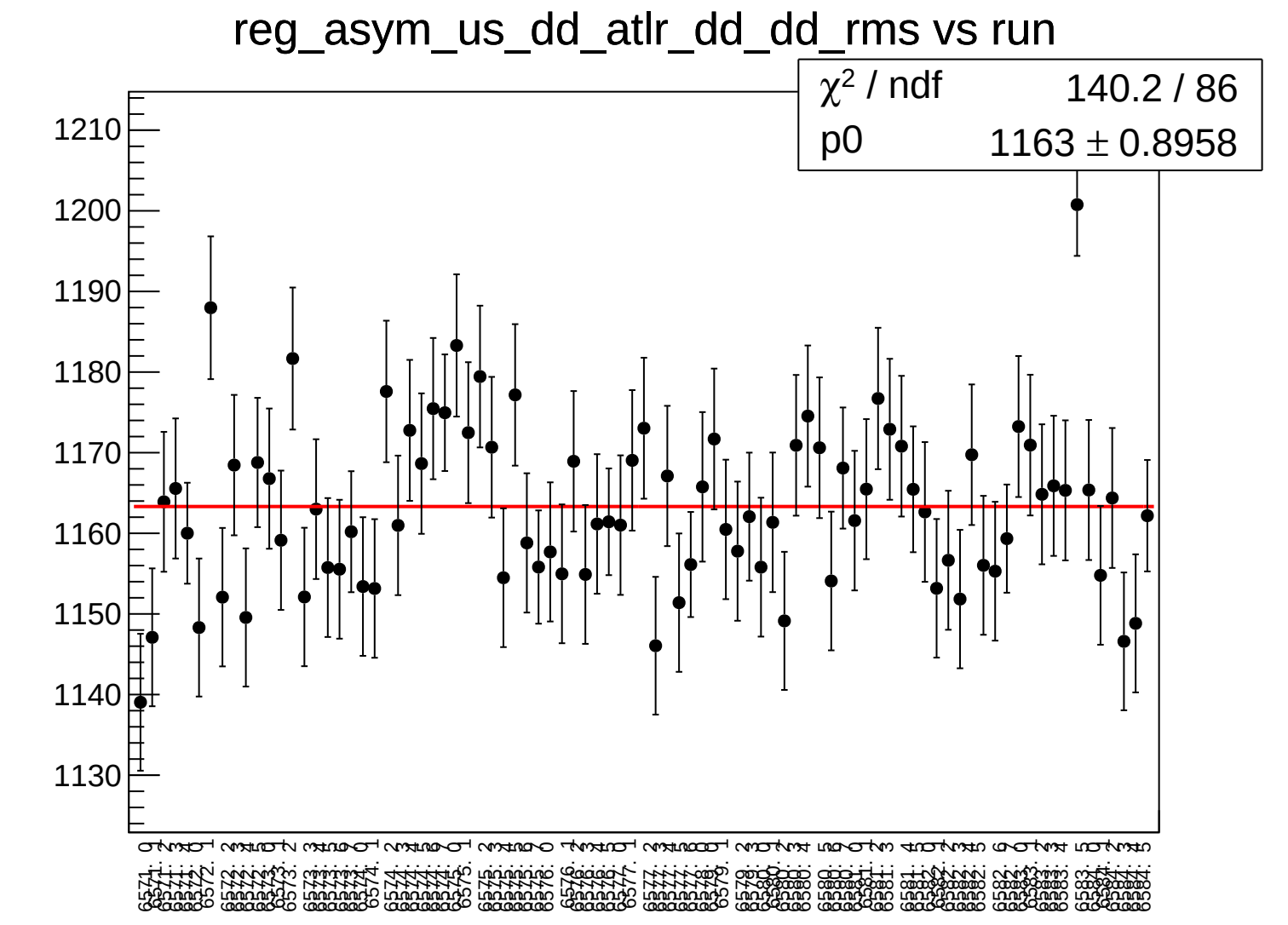

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.76 / 86
p0 1.261e−14 ± 1.006e−14
pull
Entries 87
Mean 30.03
Std Dev 13.3

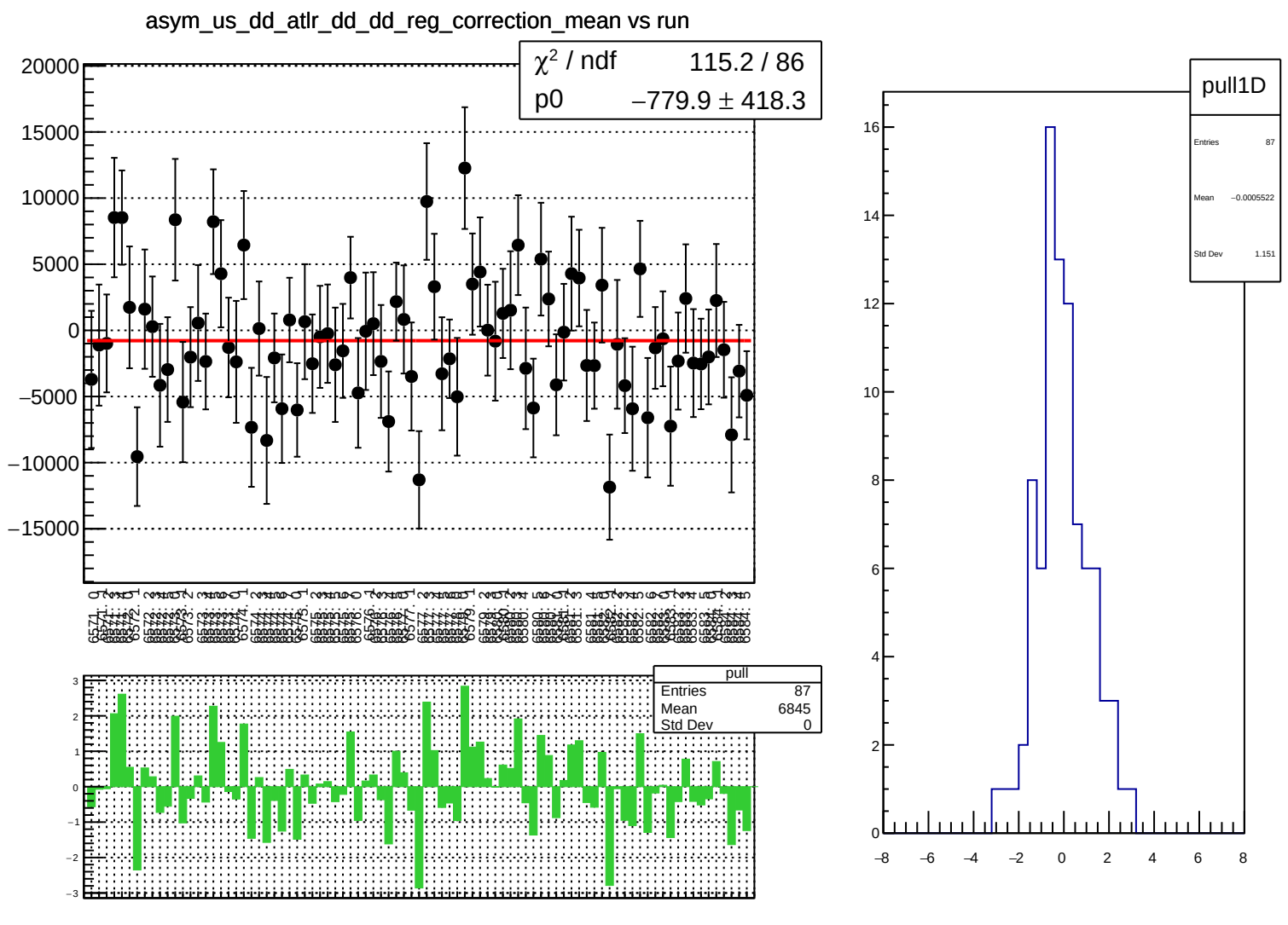

pull1D
Entries 87
Mean −0.1742
Std Dev 1.046

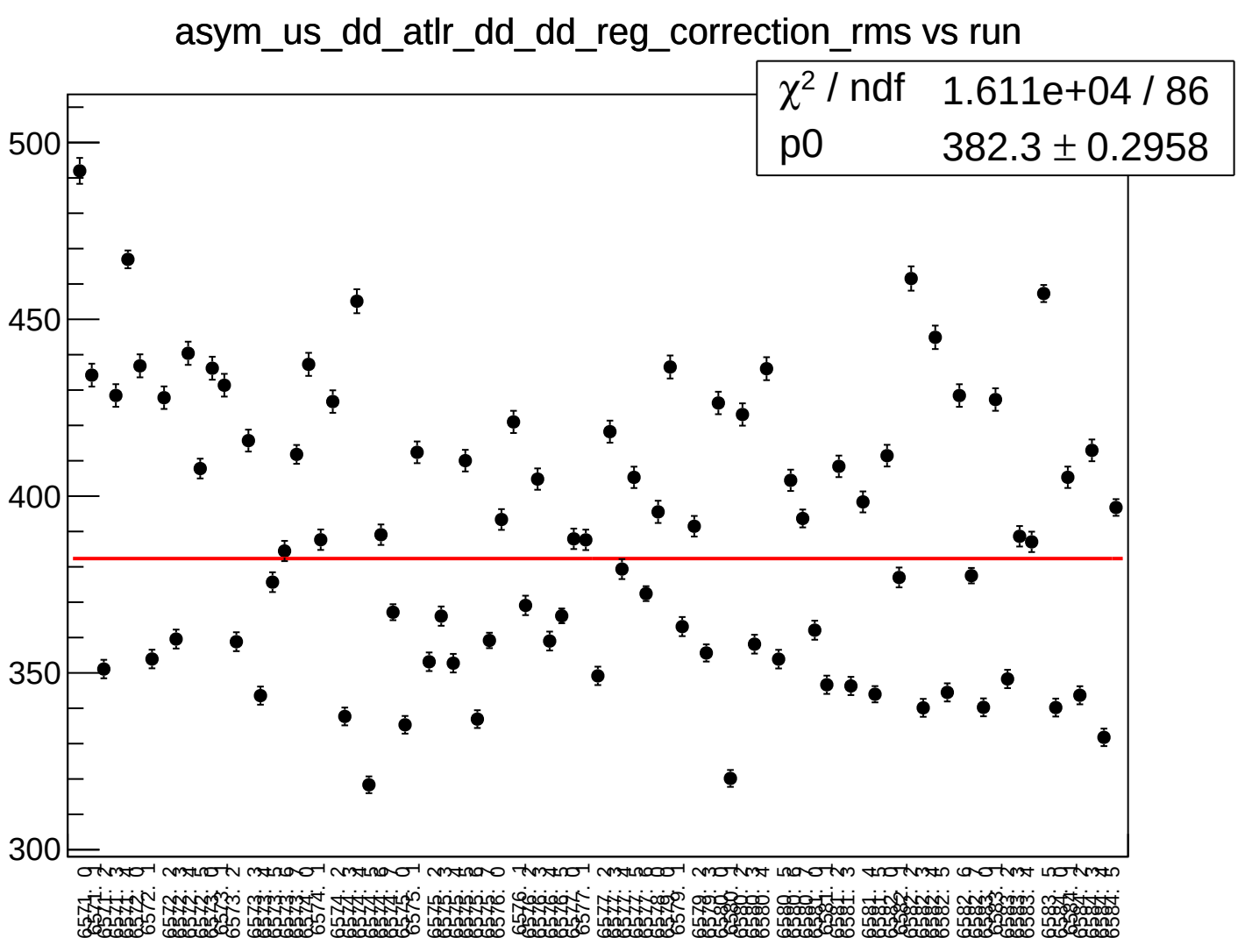

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.215e+05 / 86
p0 8.003e−12 ± 7.115e−15
60
50
40
30
20
10

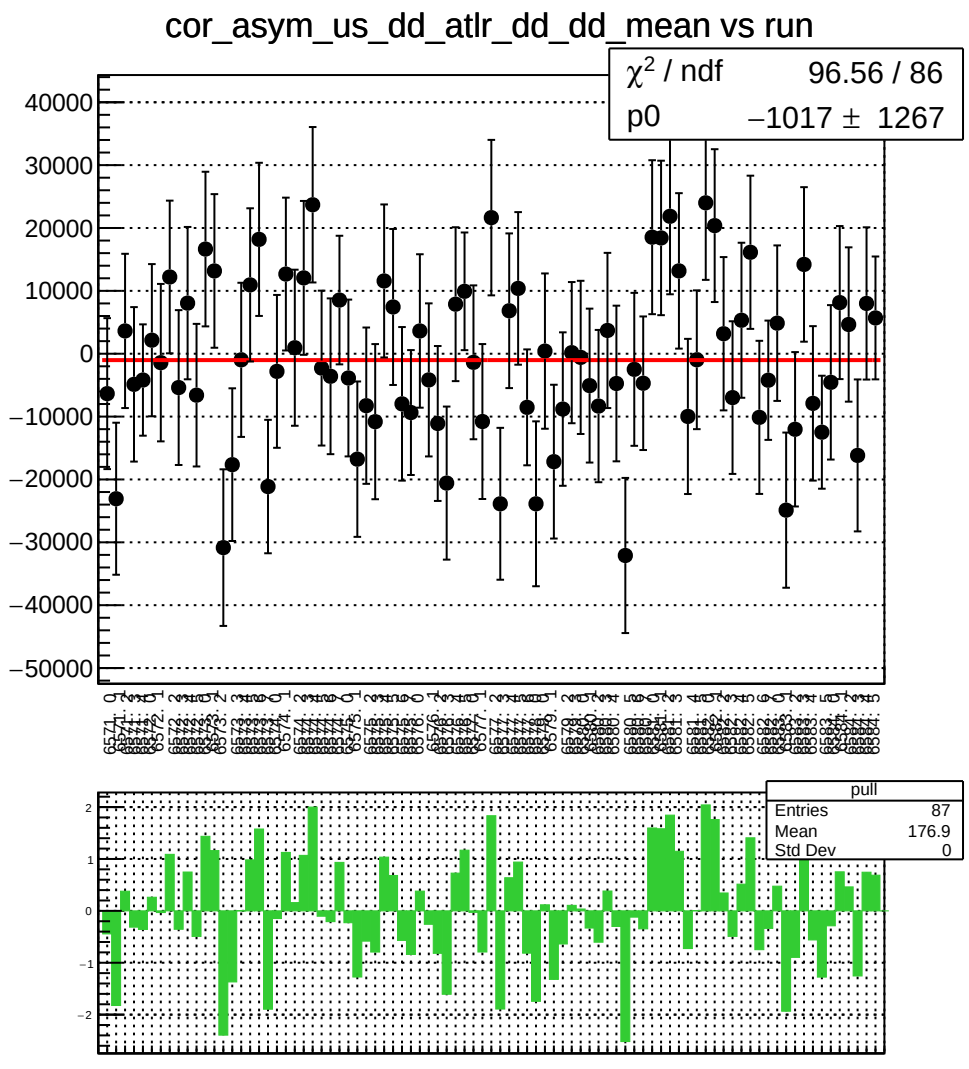

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 96.55 / 86
p0 −1017 ± 1267
pull
Entries 87
Mean 177
Std Dev 0

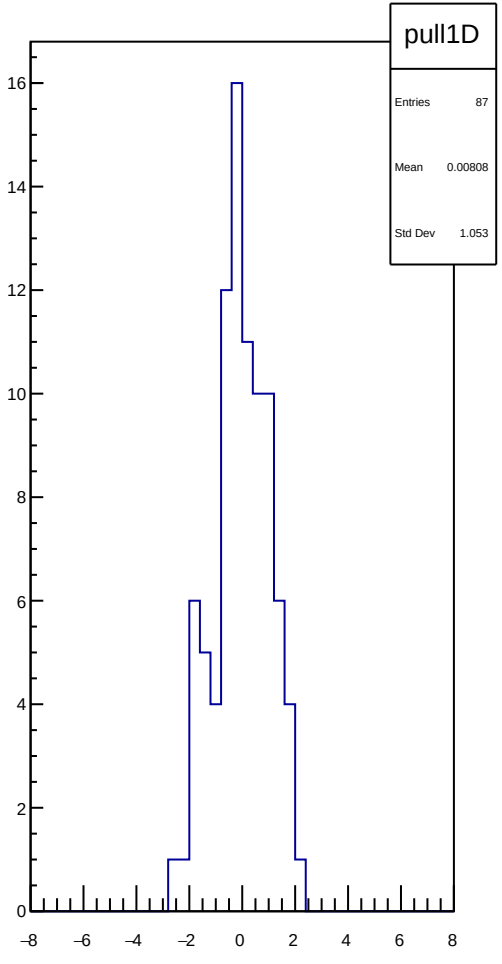

pull1D
Entries 87
Mean 0.008079
Std Dev 1.053

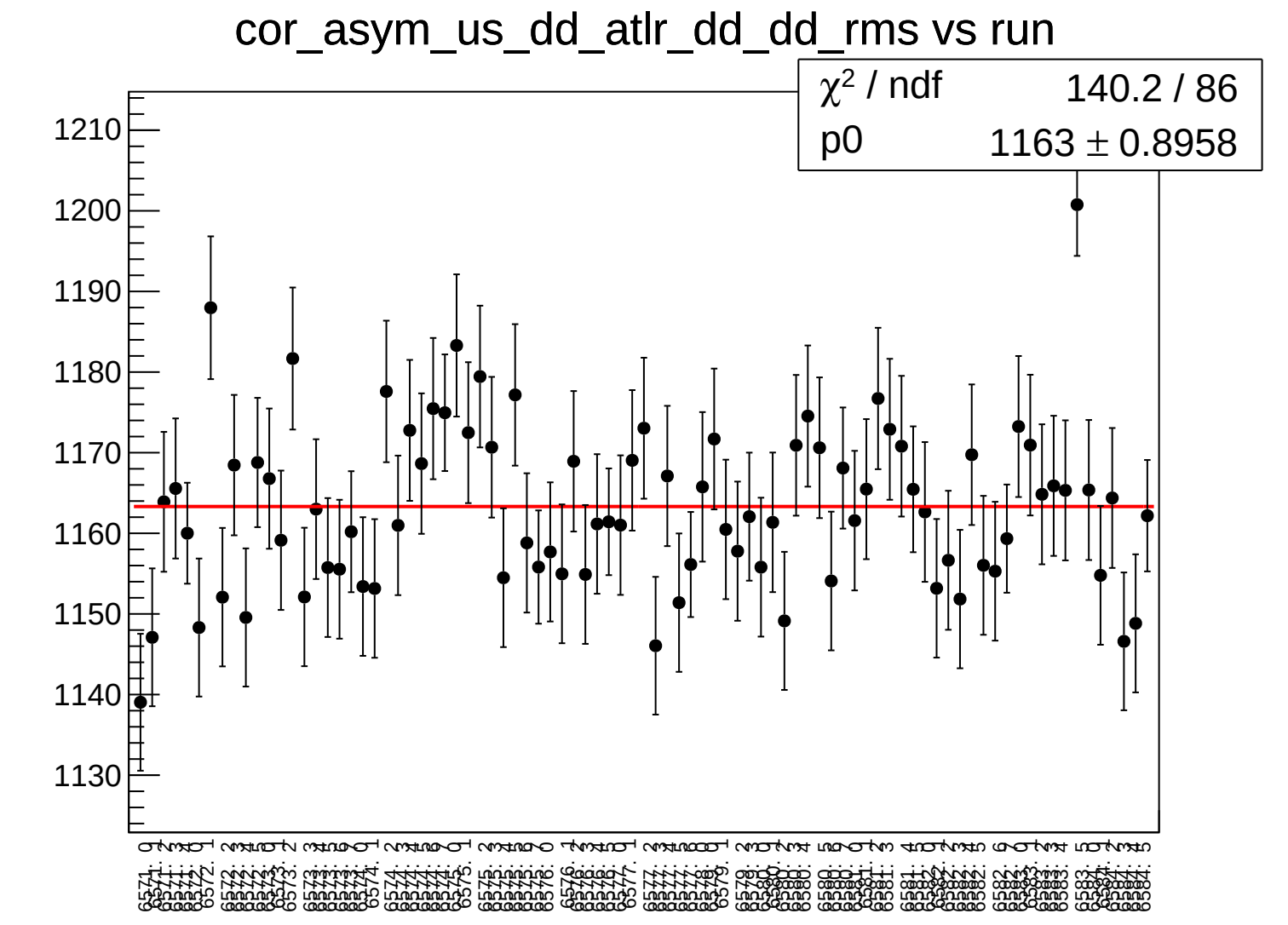

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 140.2 / 86
p0 1163 ± 0.8958
1210
1200
1190
1180
1170
1160
1150
1140
1130

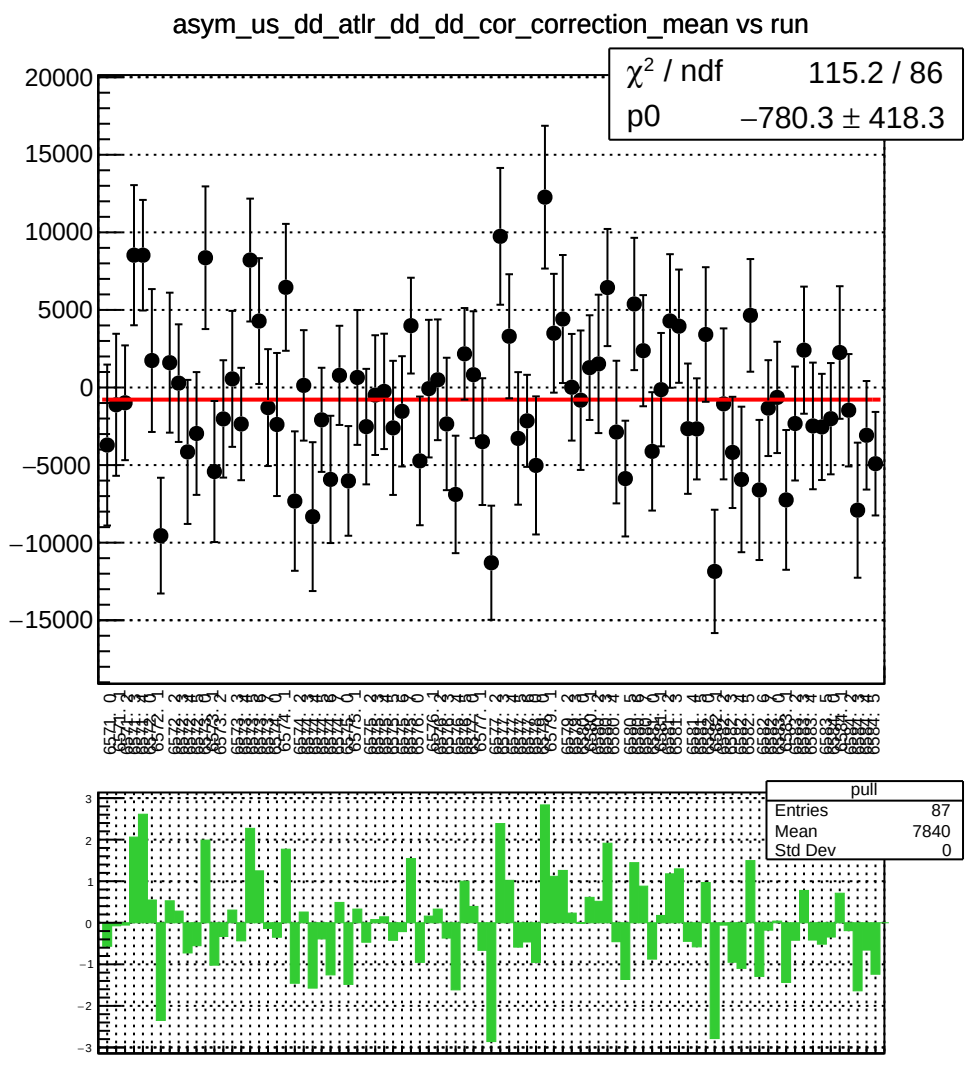

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 115.2 / 86
p0 −779.9 ± 418.3
pull
Entries 87
Mean 6845
Std Dev 0
pull1D
Entries 87
Mean −0.0005522
Std Dev 1.151

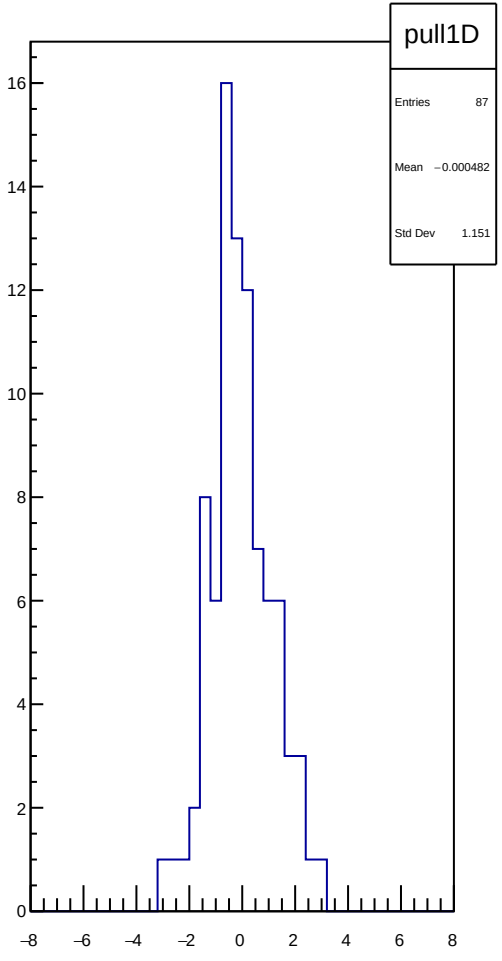

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.611e+04 / 86
p0 382.3 ± 0.2958
500
450
400
350
300

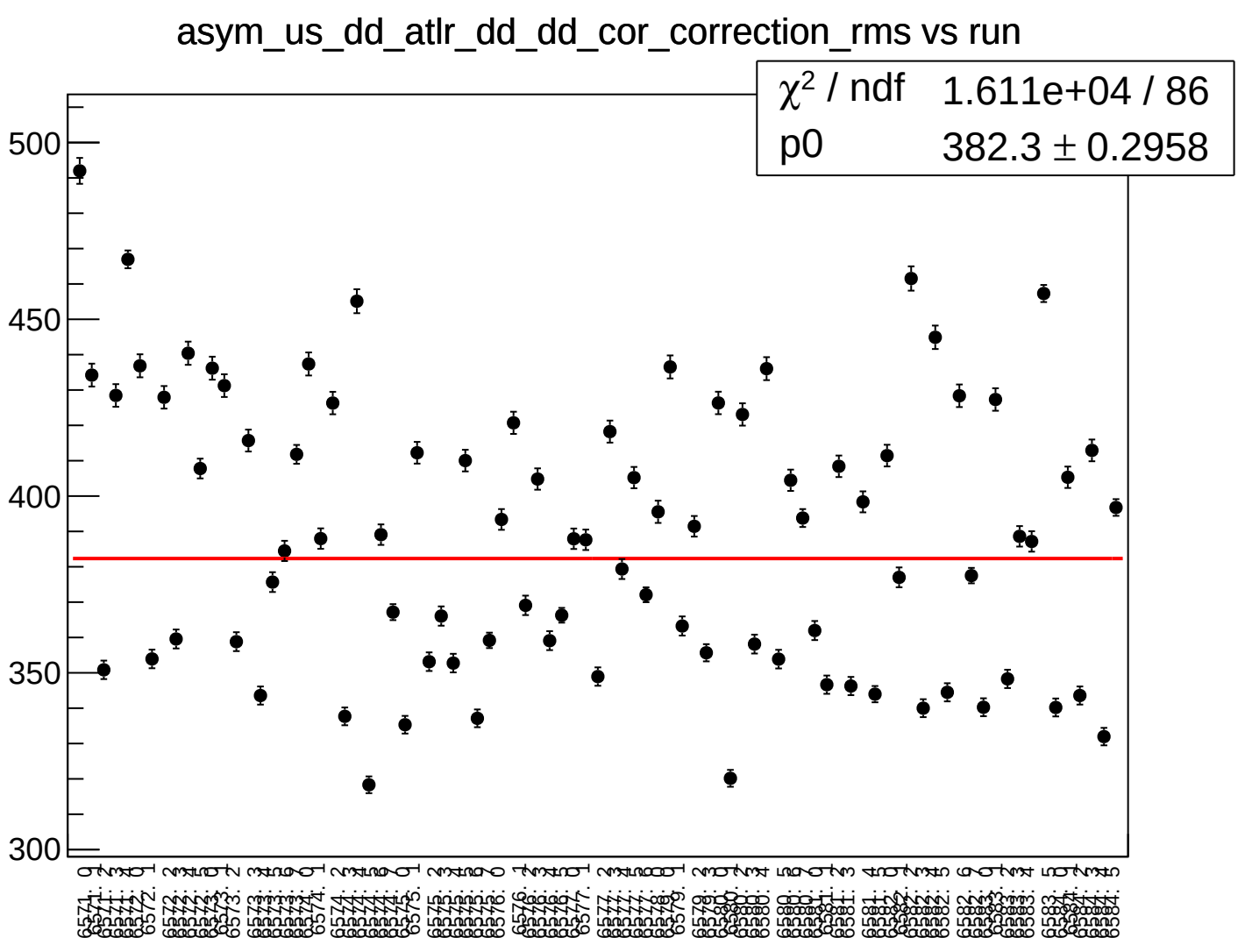

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 96.56 / 86
p0 −1017 ± 1267
pull
Entries 87
Mean 176.9
Std Dev 0

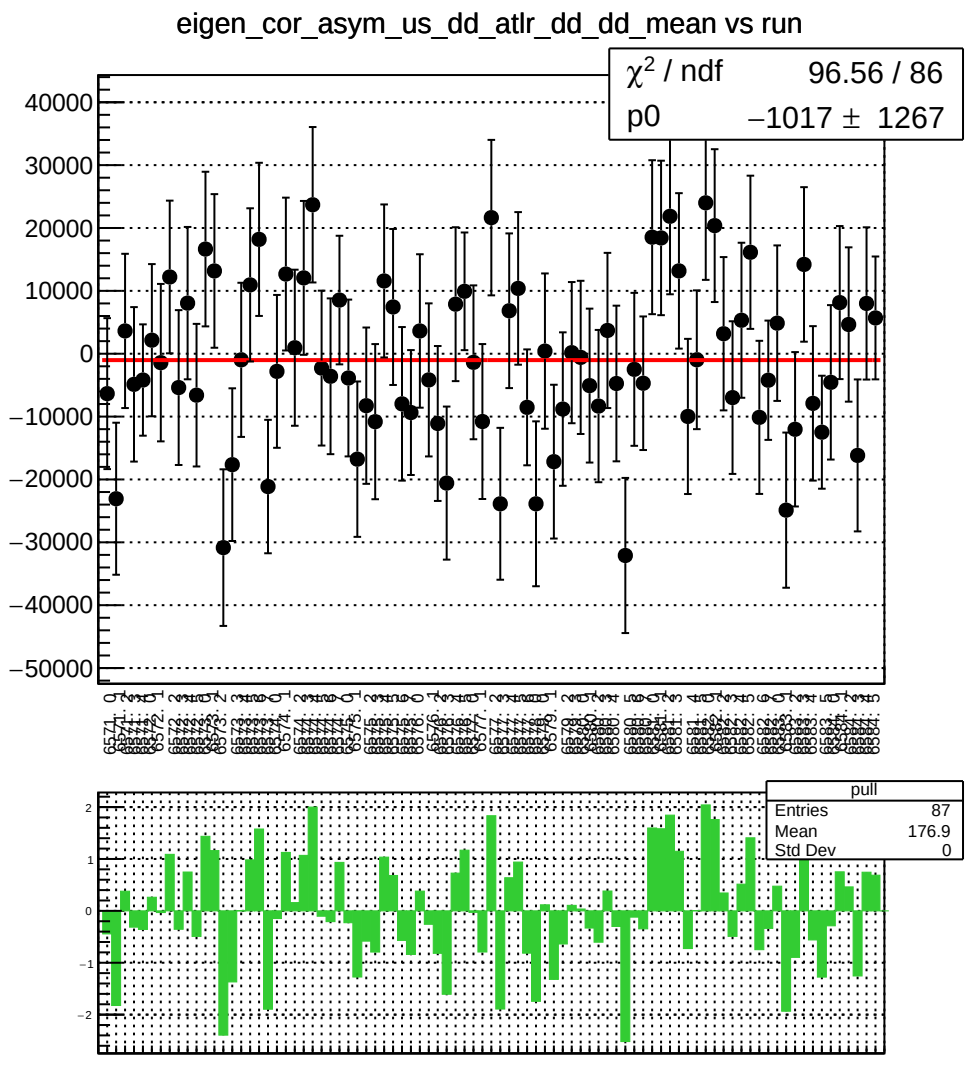

pull1D
Entries 87
Mean 0.00808
Std Dev 1.053

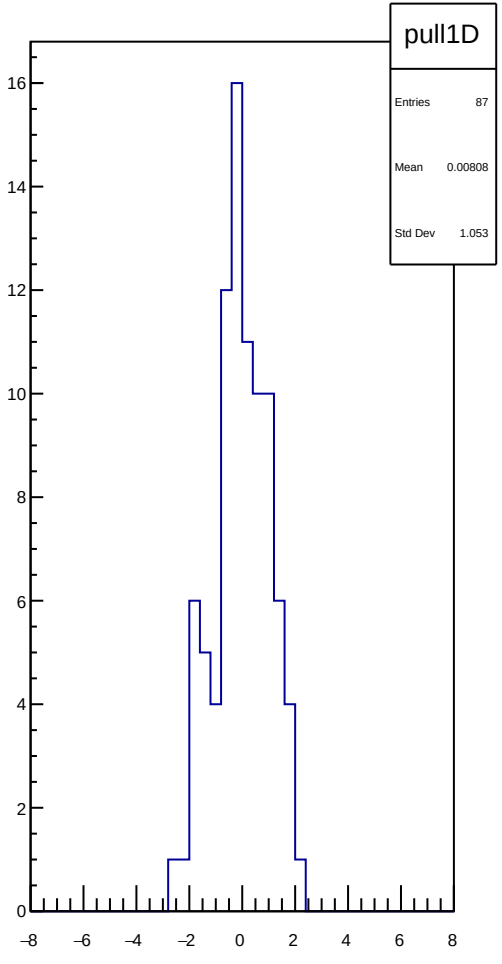

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 140.2 / 86
p0 1163 ± 0.8958
1210
1200
1190
1180
1170
1160
1150
1140
1130

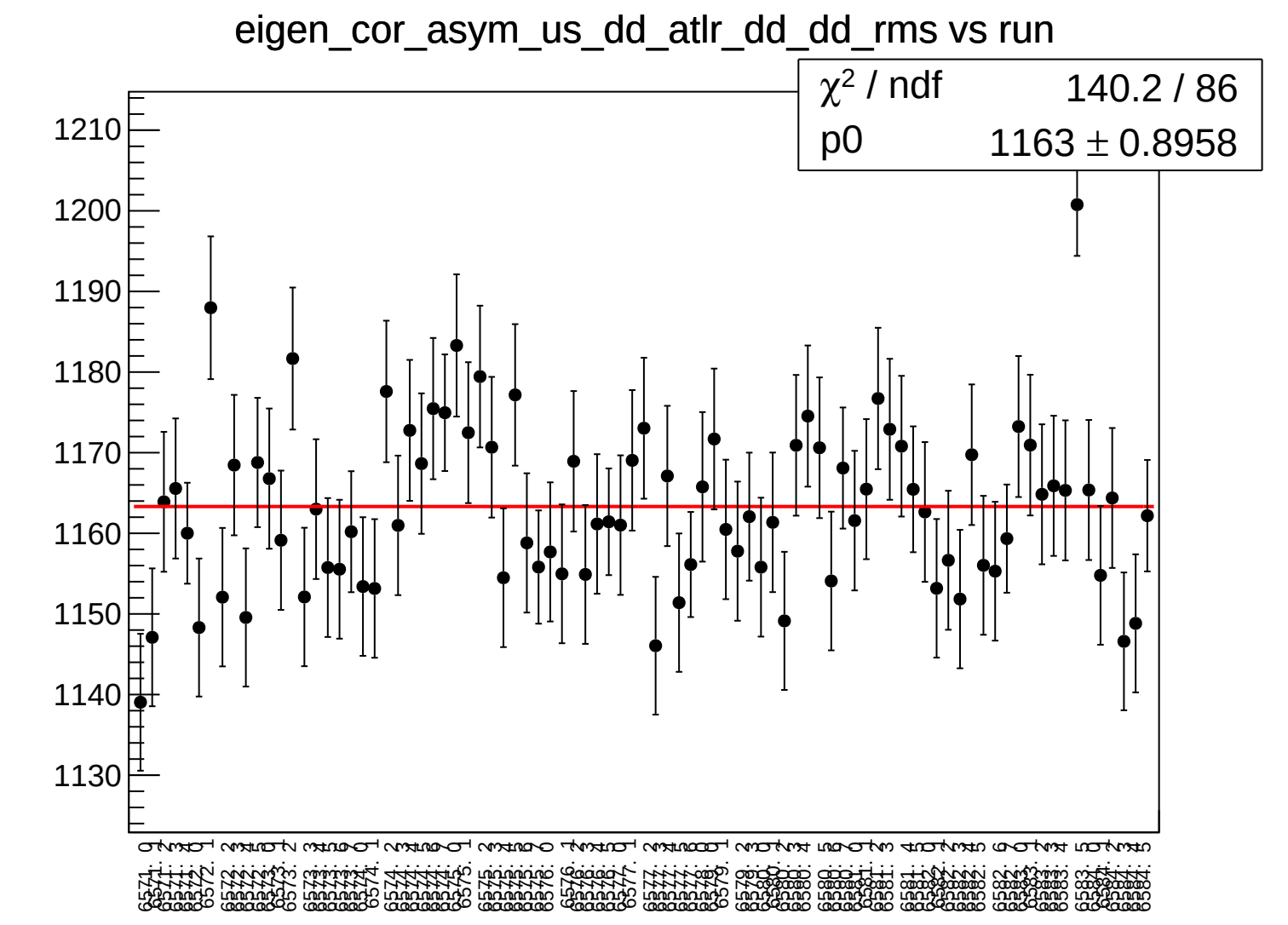

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 115.2 / 86
p0 −780.3 ± 418.3
pull
Entries 87
Mean 7840
Std Dev 0

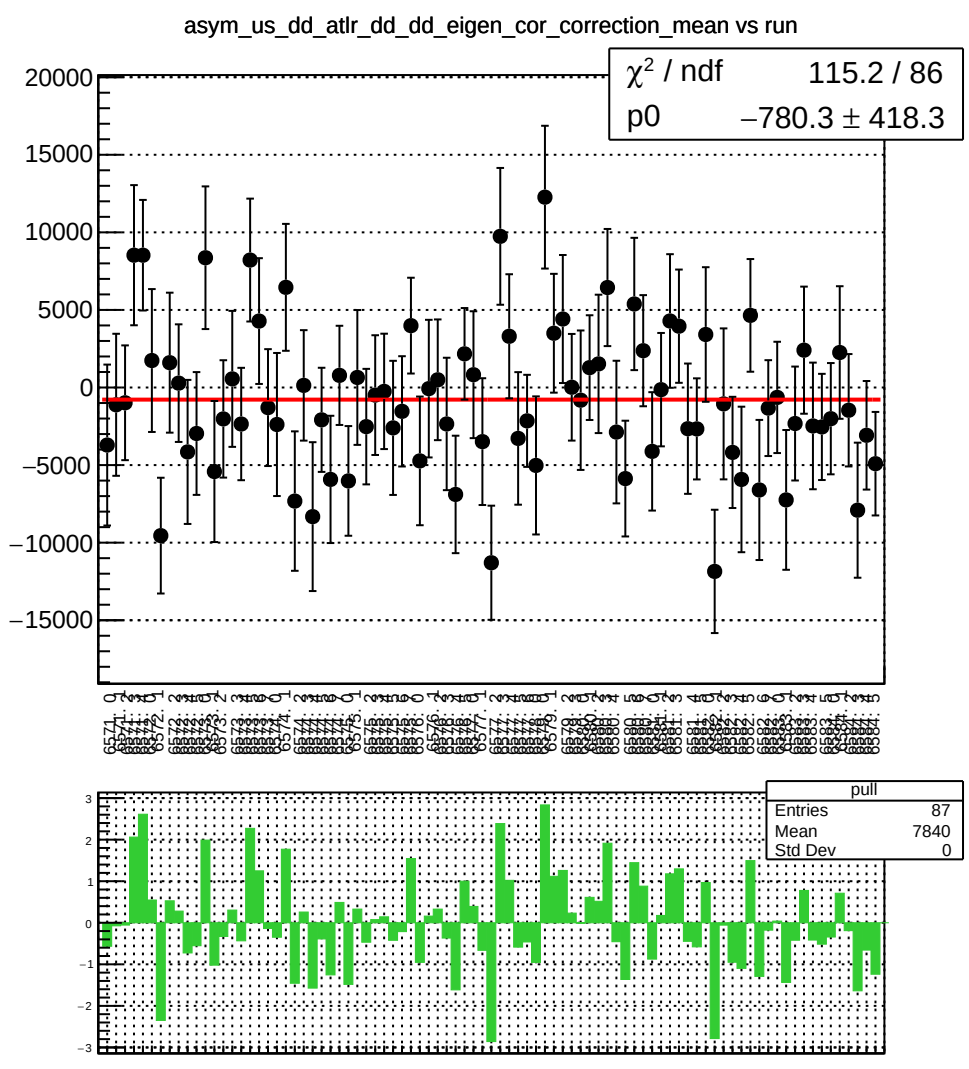

pull1D
Entries 87
Mean −0.000482
Std Dev 1.151

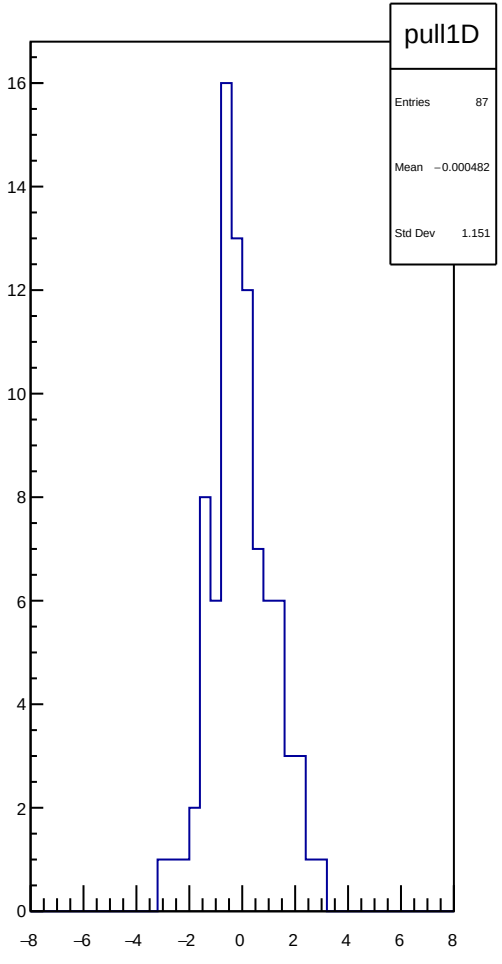

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.611e+04 / 86
p0 382.3 ± 0.2958
500
450
400
350
300

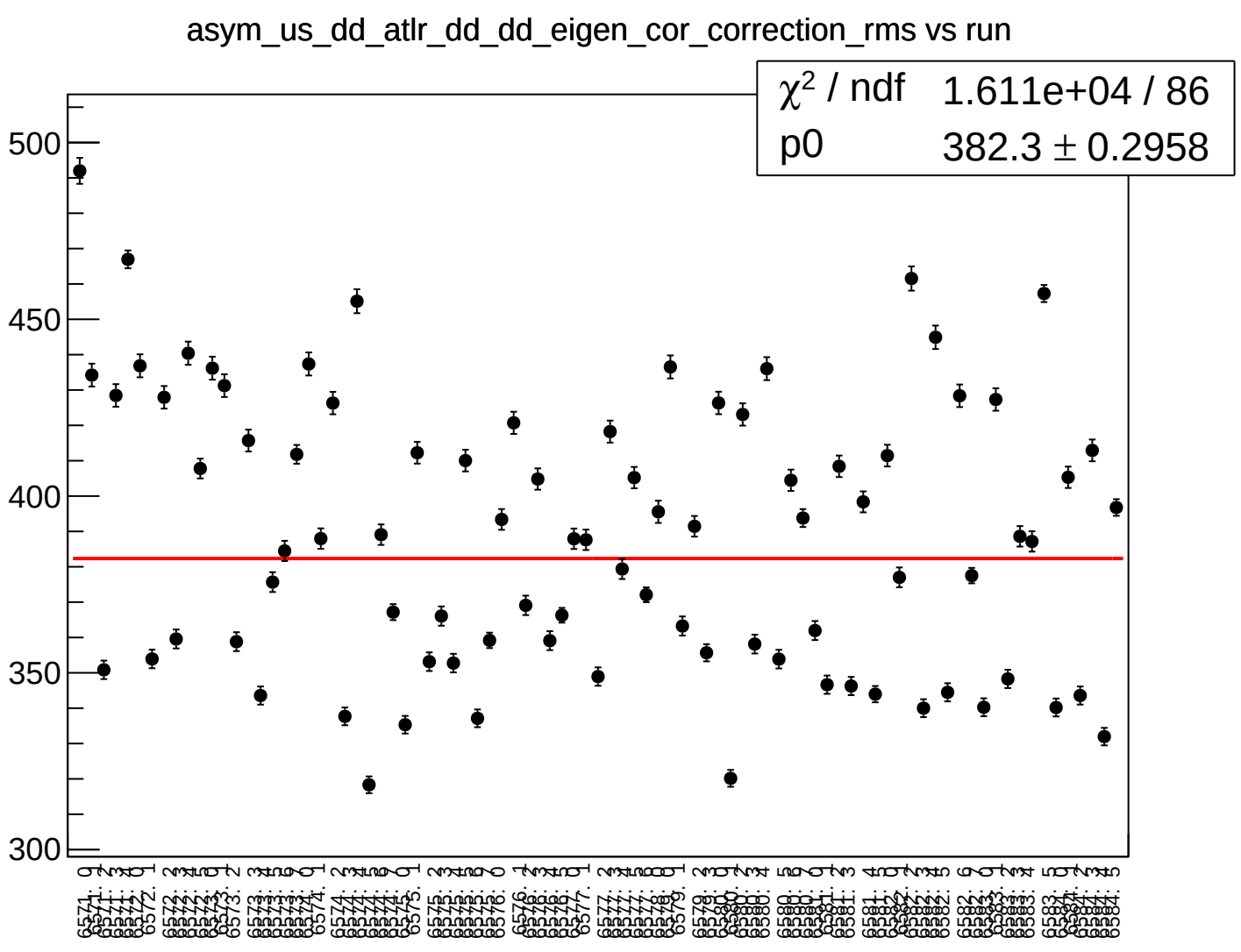

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 96.56 / 86
p0 −1017 ± 1267
pull
Entries 87
Mean 176.9
Std Dev 0

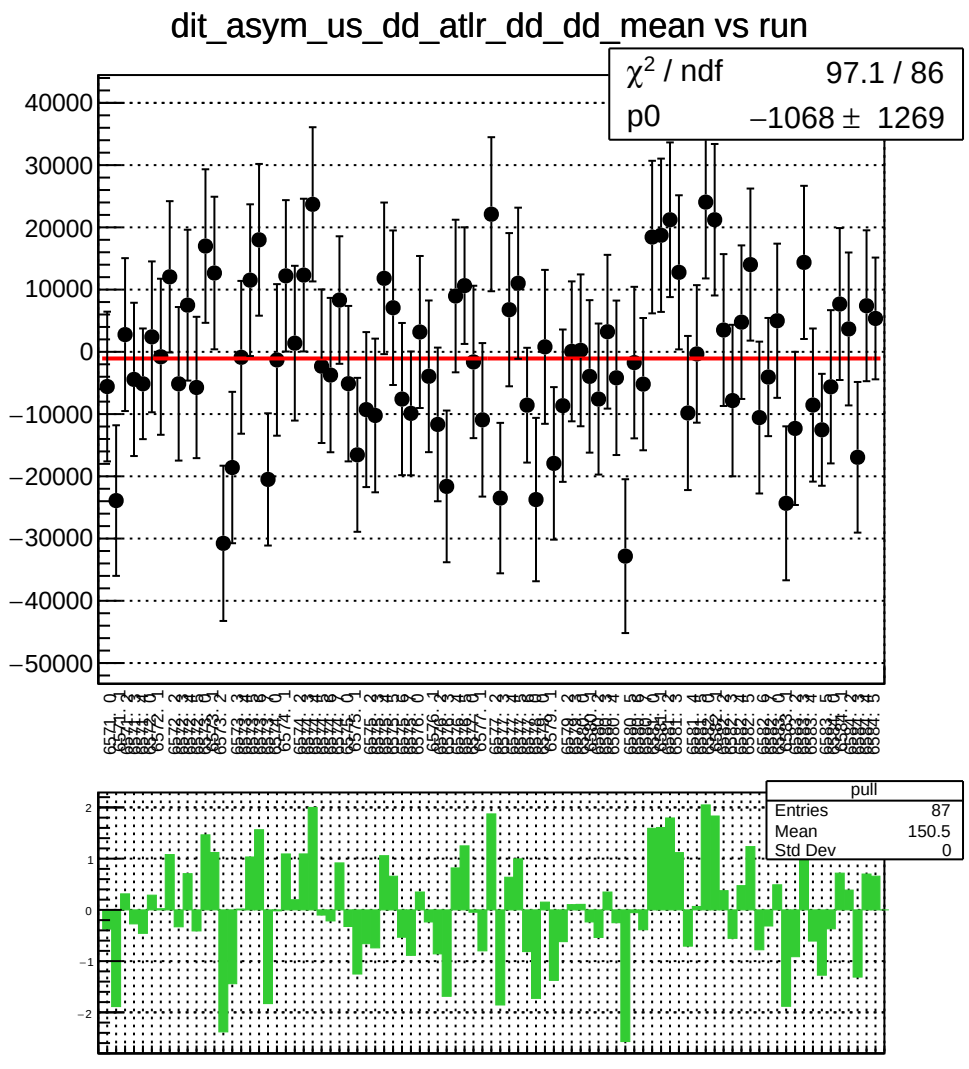

pull1D
Entries 87
Mean 0.00808
Std Dev 1.053

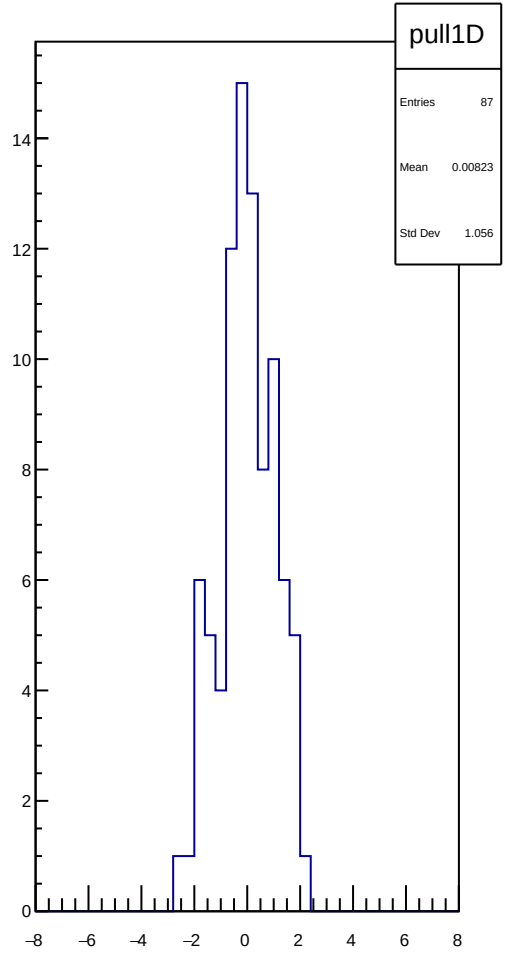

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 140.2 / 86
p0 1163 ± 0.8958
1210
1200
1190
1180
1170
1160
1150
1140
1130

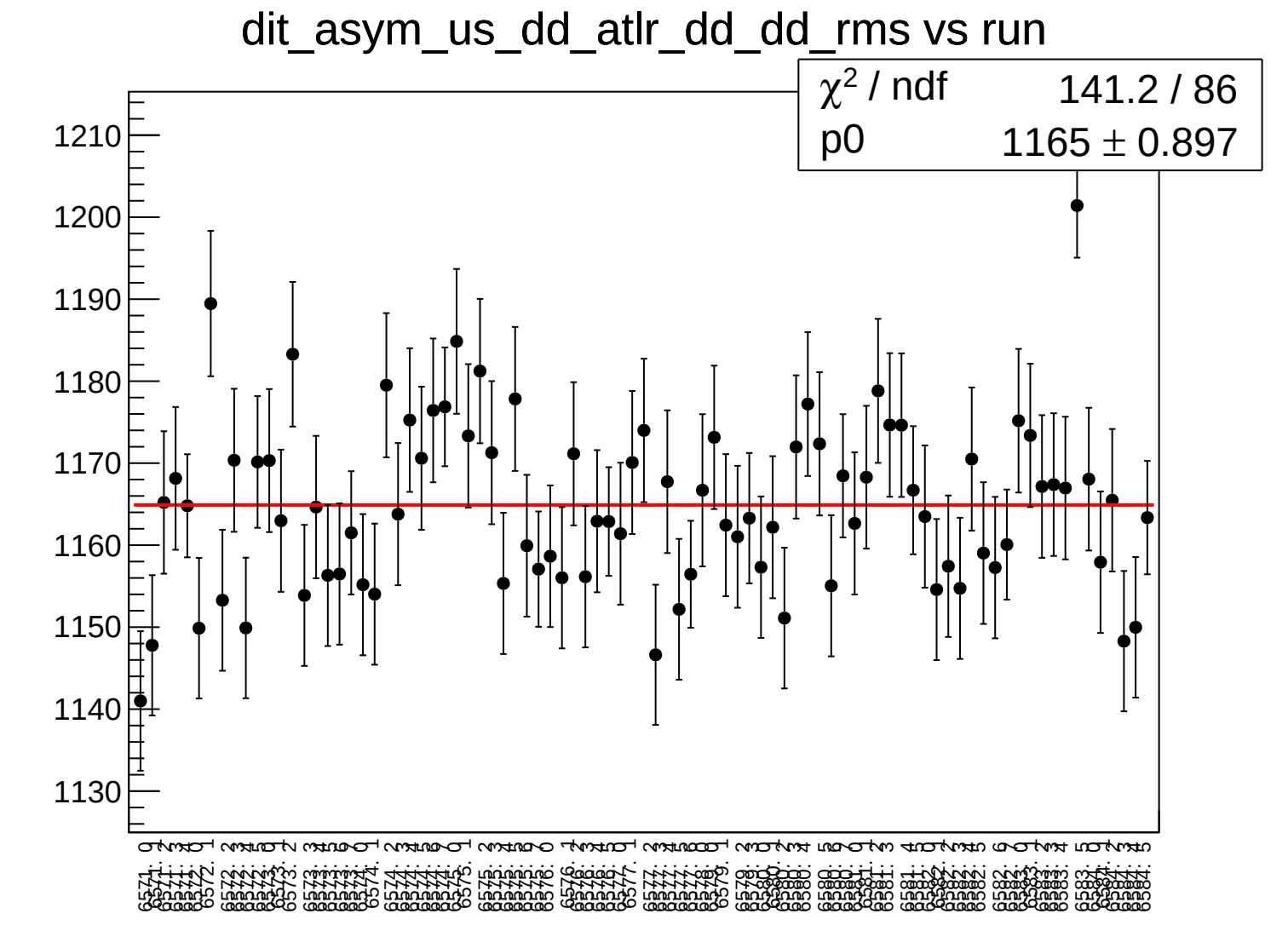

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 115.2 / 86
p0 −780.3 ± 418.3
pull
Entries 87
Mean 7840
Std Dev 0

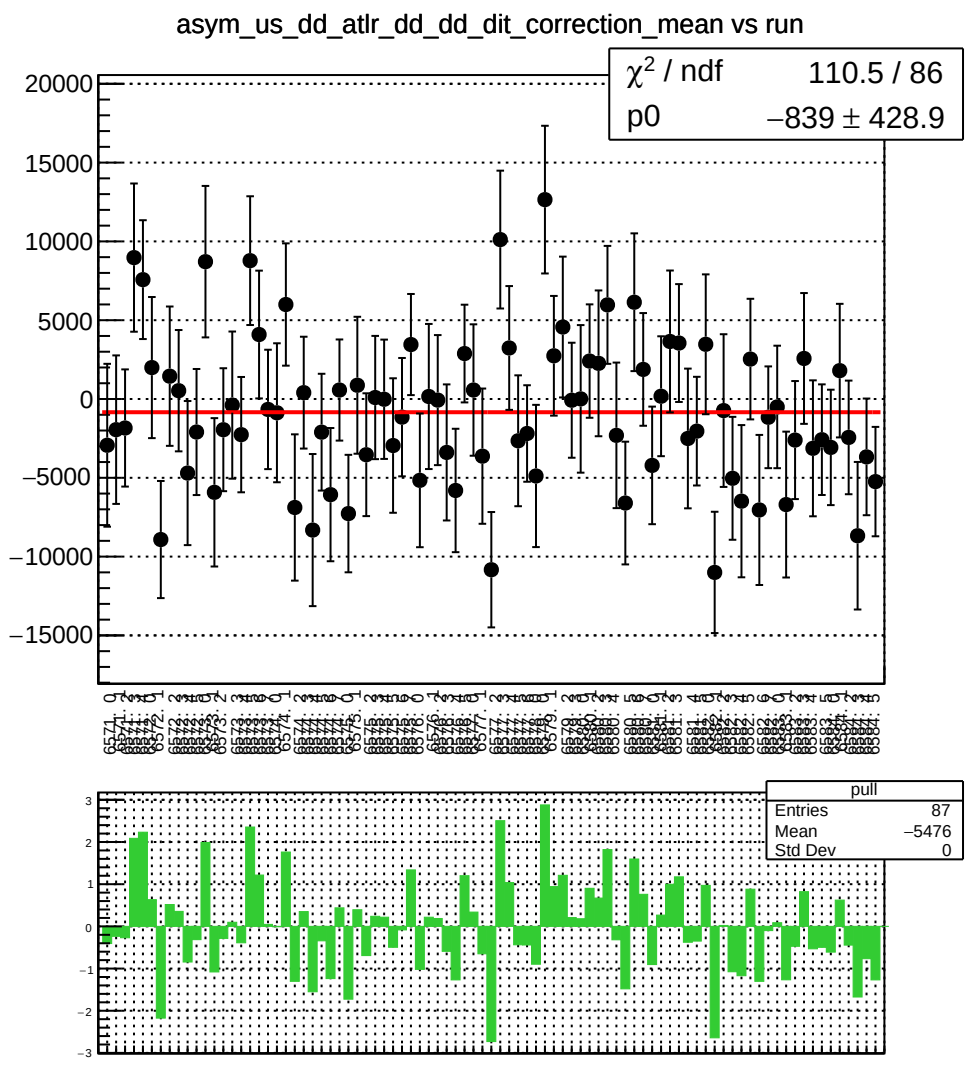

pull1D
Entries 87
Mean −0.000482
Std Dev 1.151

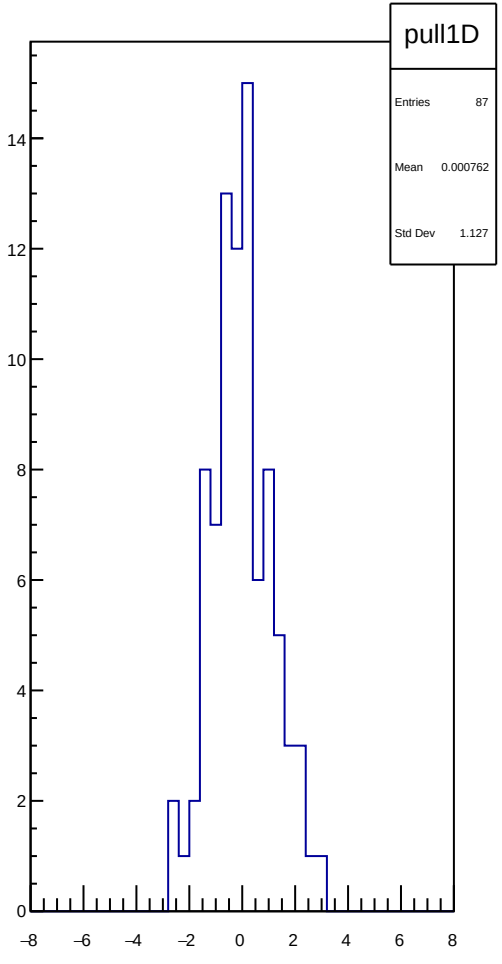

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.611e+04 / 86
p0 382.3 ± 0.2958
500
450
400
350
300

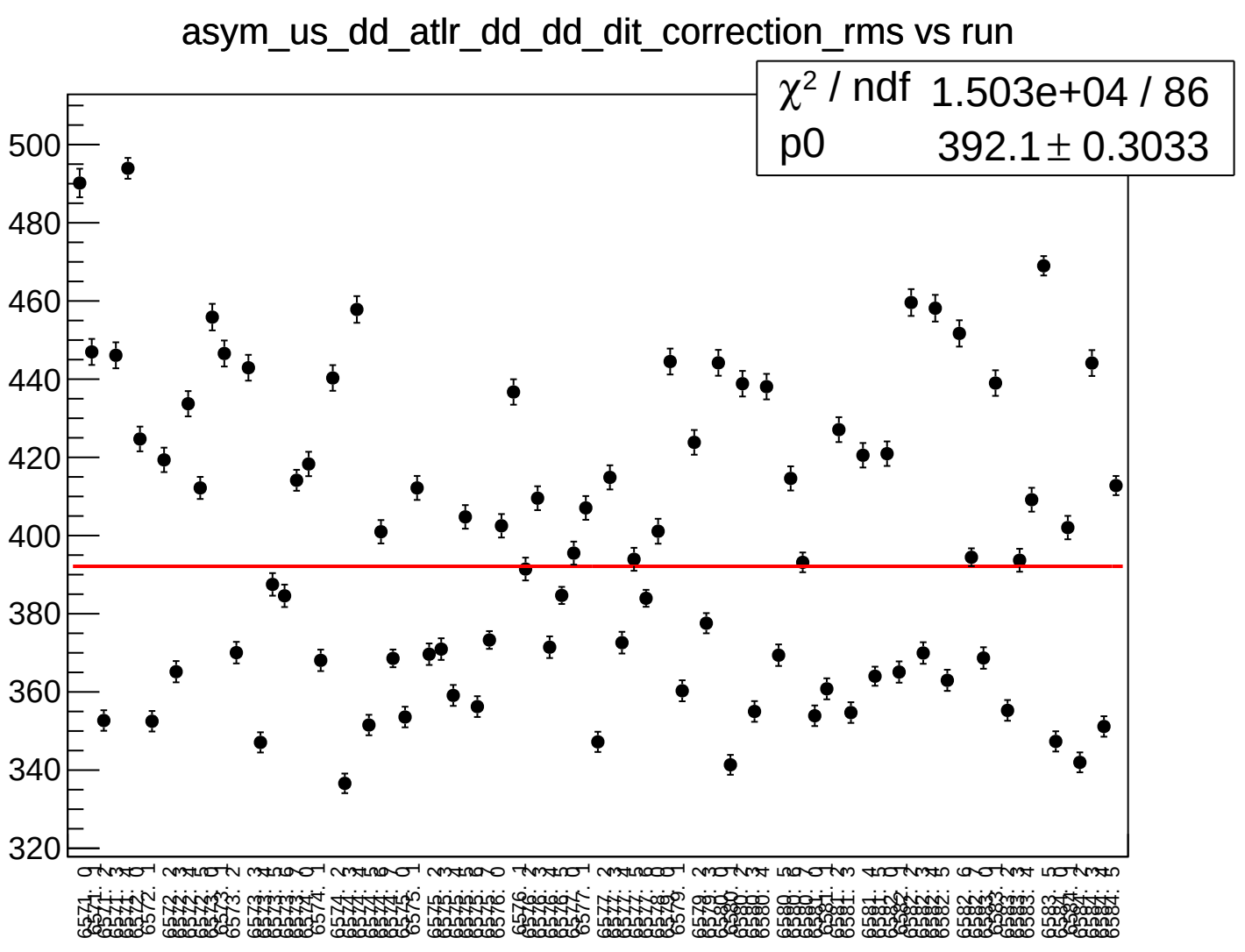

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 97.1 / 86
p0 −1068 ± 1269
pull
Entries 87
Mean 150.5
Std Dev 0

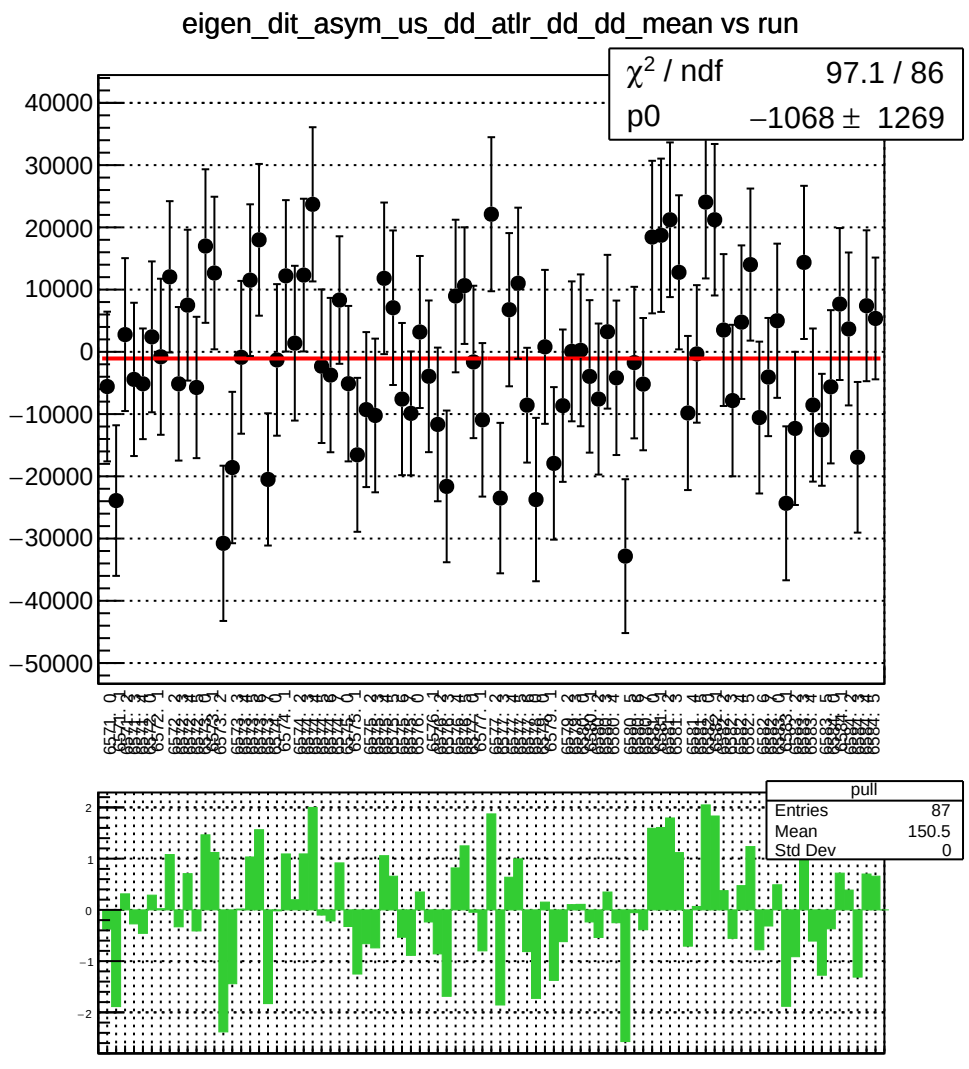

pull1D
Entries 87
Mean 0.00823
Std Dev 1.056

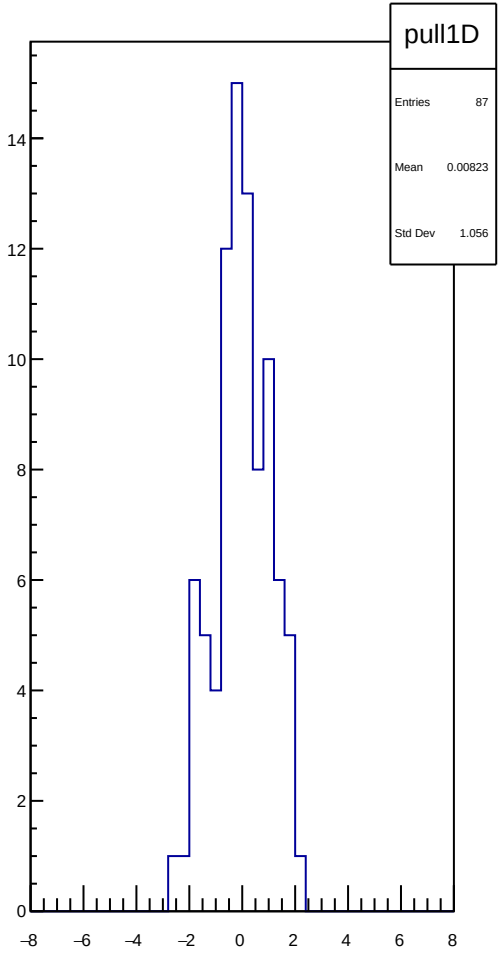

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 141.2 / 86
p0 1165 ± 0.897
1210
1200
1190
1180
1170
1160
1150
1140
1130

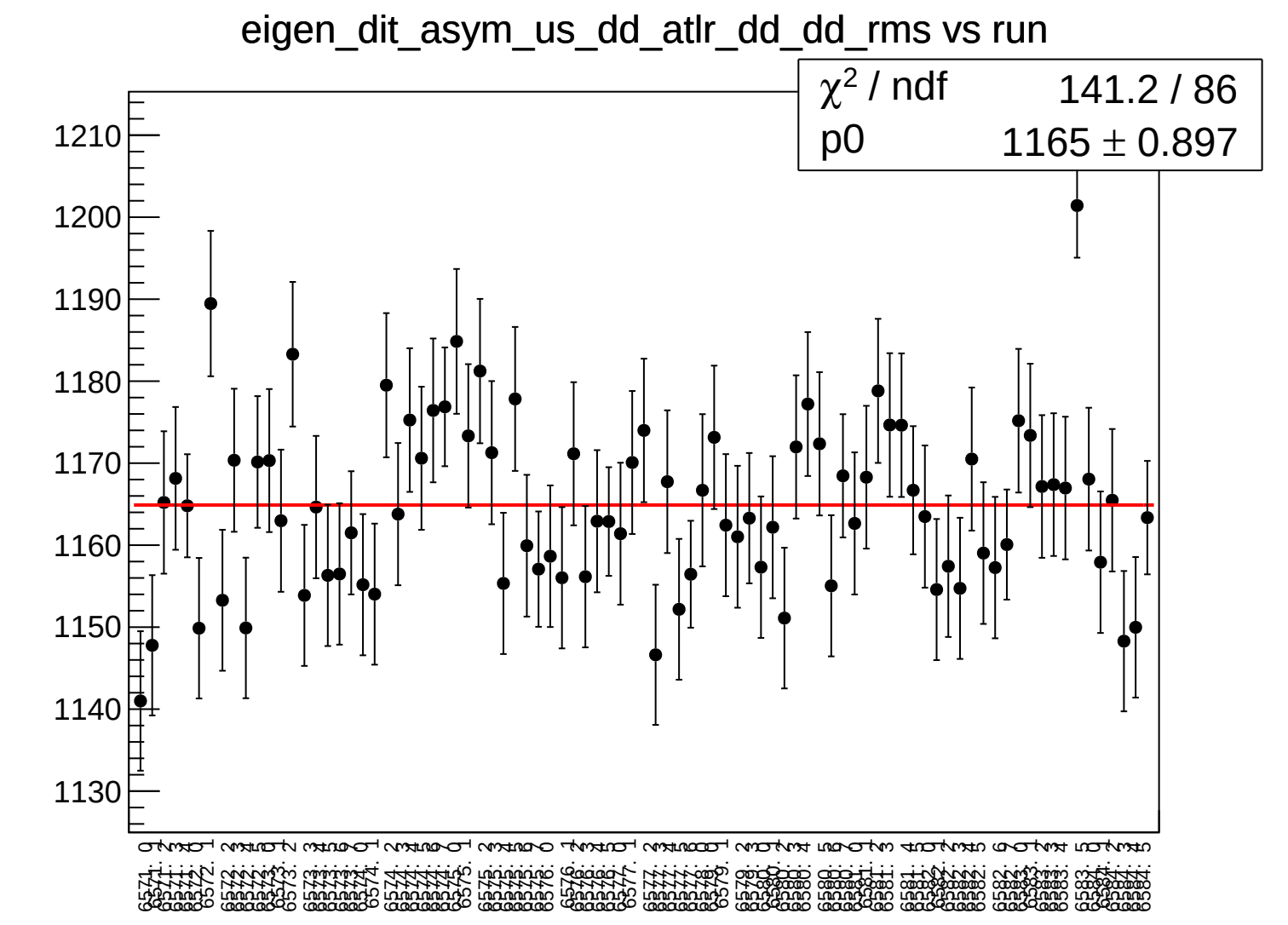

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 110.5 / 86
p0 −839 ± 428.9
pull
Entries 87
Mean −5476
Std Dev 0

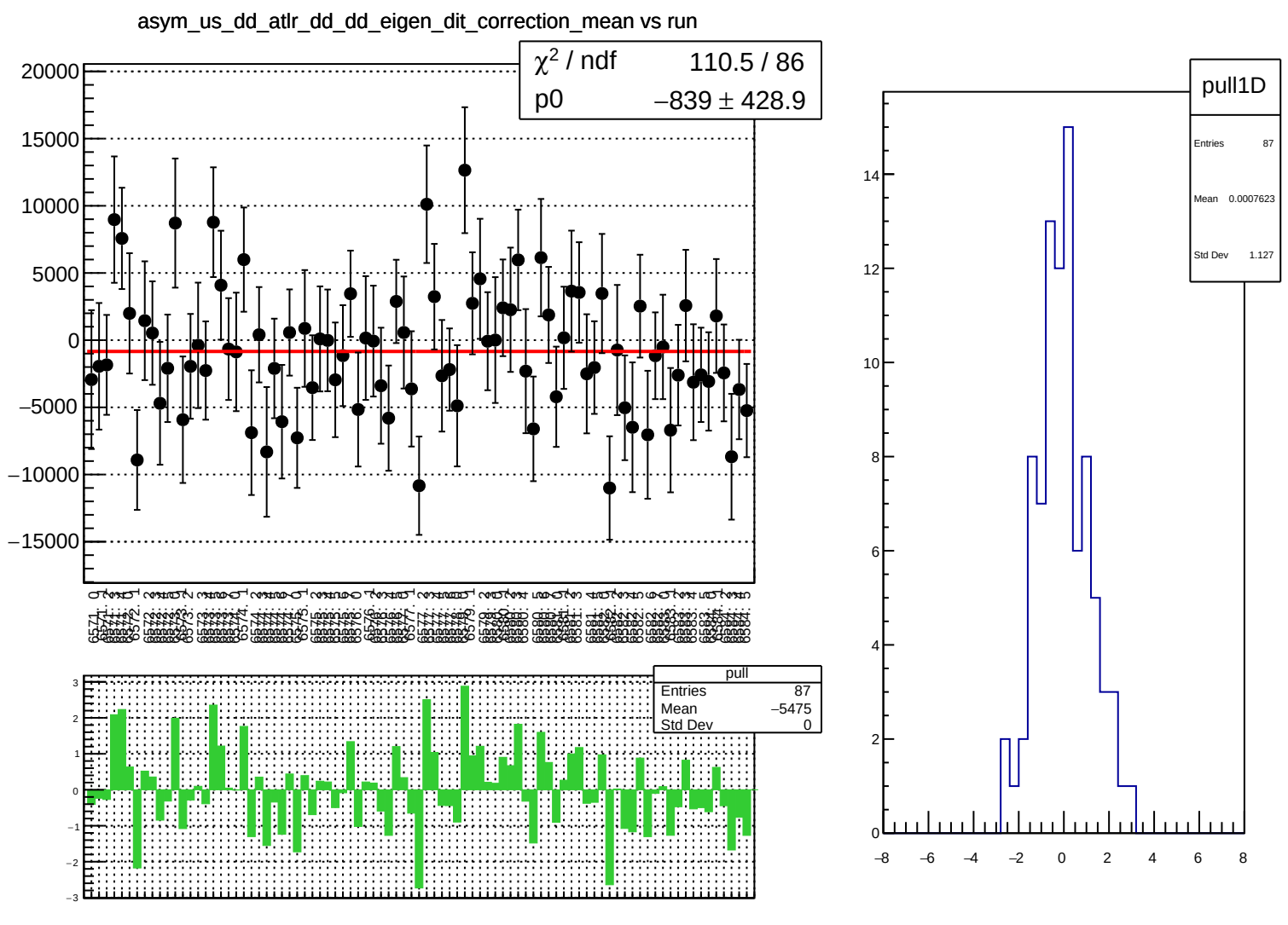

pull1D
Entries 87
Mean 0.000762
Std Dev 1.127

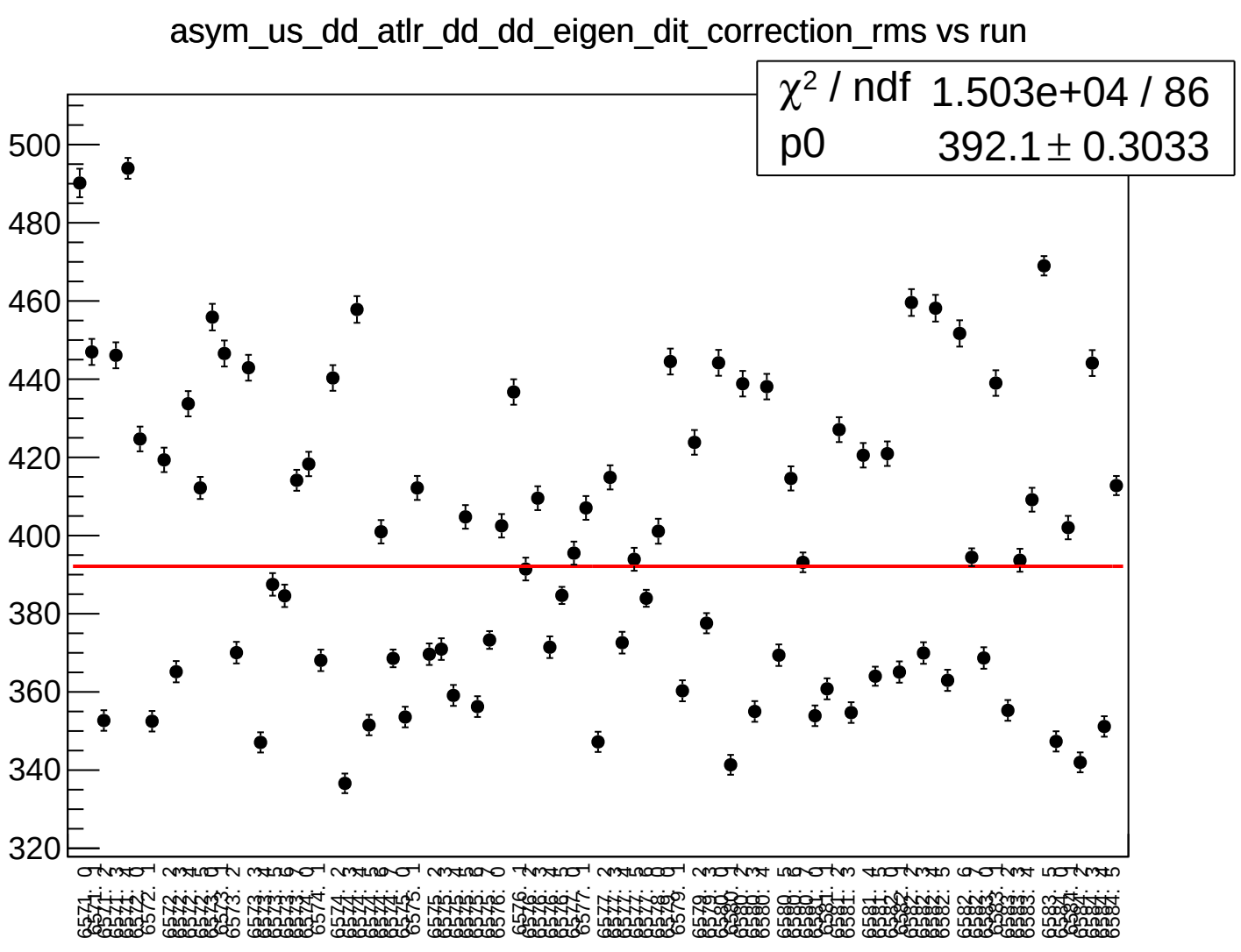

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.503e+04 / 86
p0 392.1 ± 0.3033
500
480
460
440
420
400
380
360
340
320

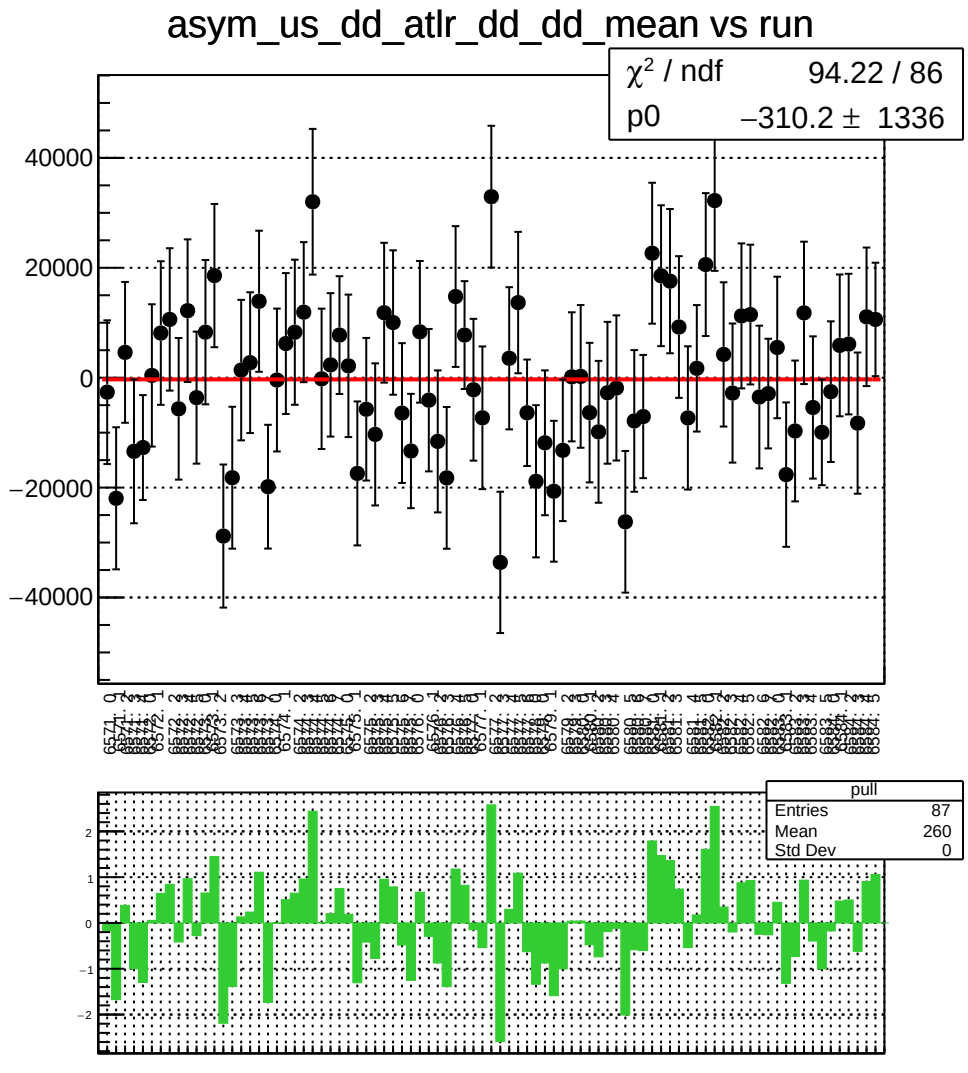

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 97.1 / 86
p0 −1068 ± 1269
pull
Entries 87
Mean 150.5
Std Dev 0

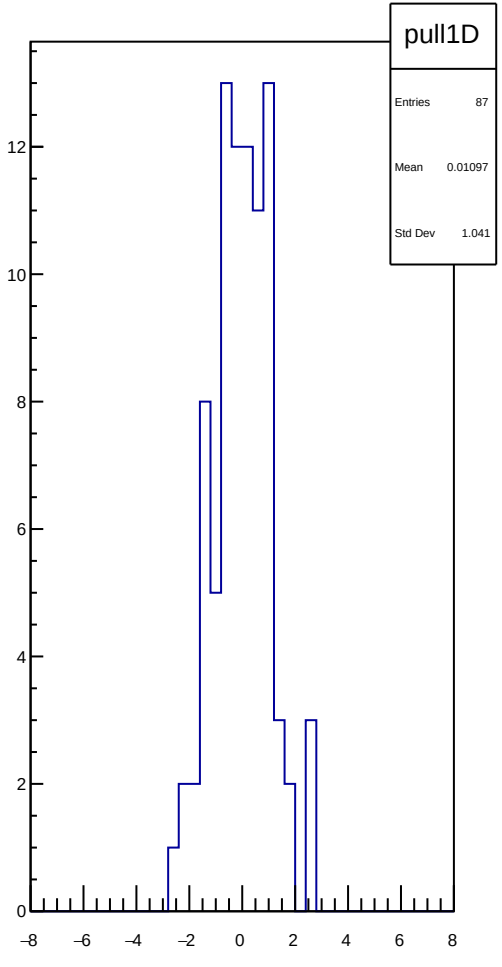

pull1D
Entries 87
Mean 0.00823
Std Dev 1.056

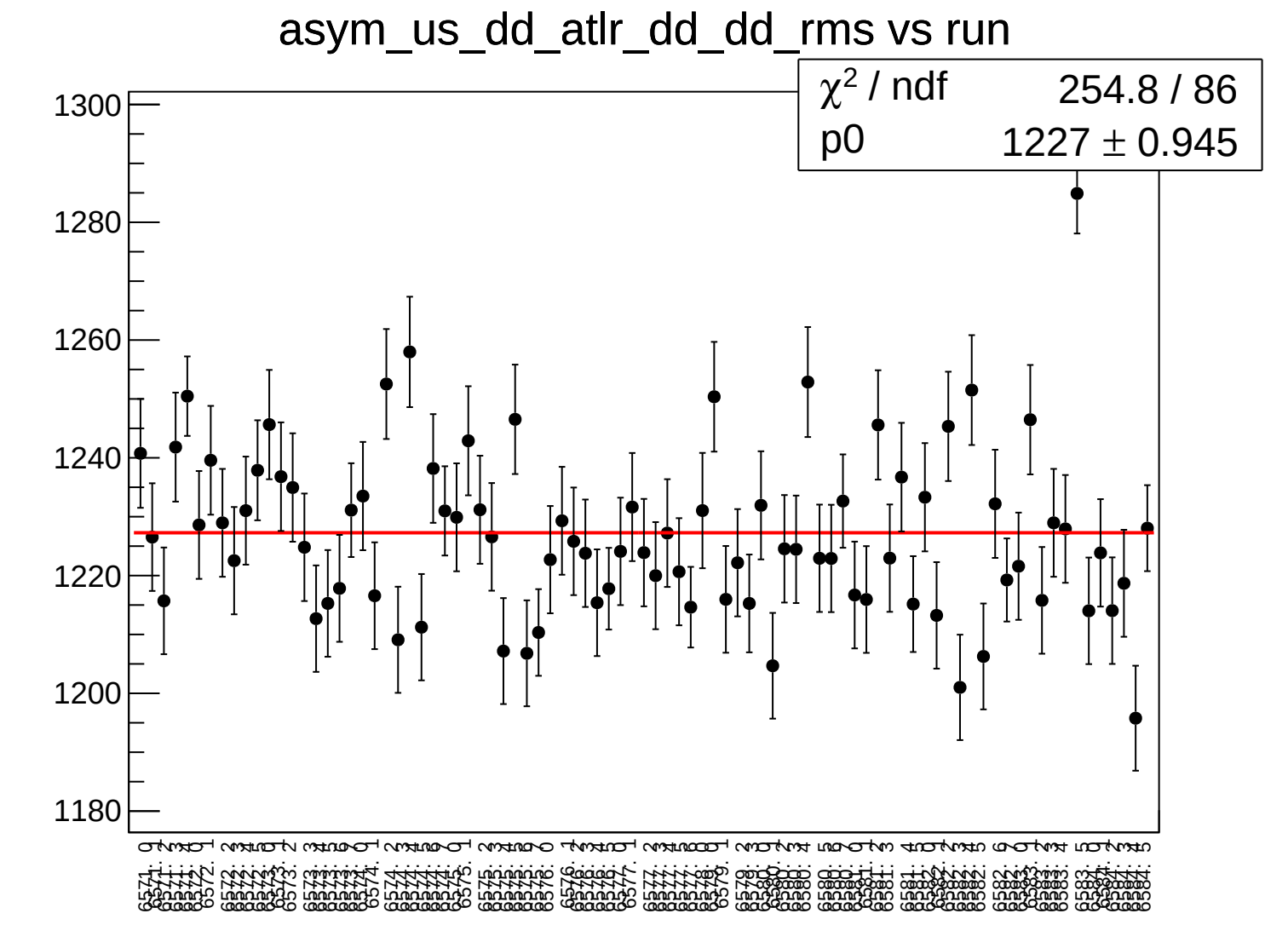

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 141.2 / 86
p0 1165 ± 0.897
1210
1200
1190
1180
1170
1160
1150
1140
1130

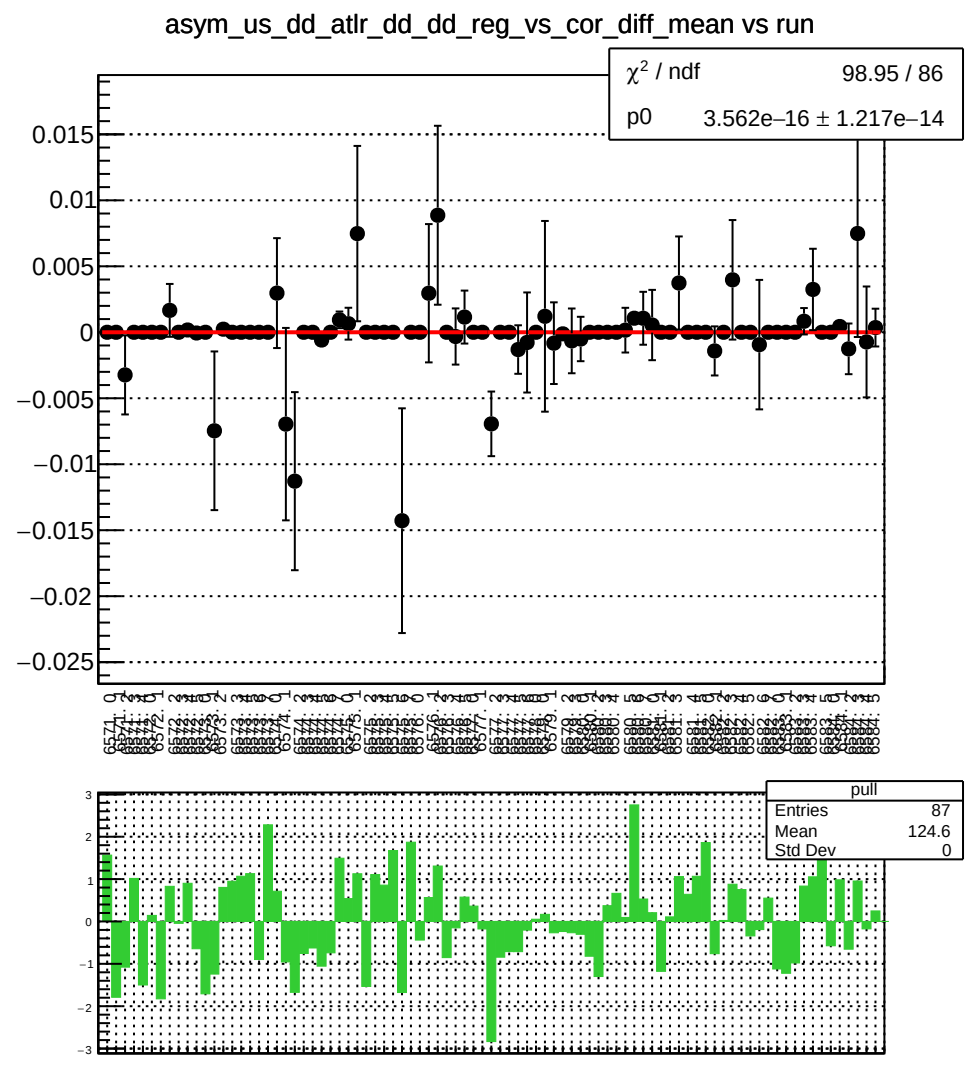

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.5 / 86
p0 −839 ± 428.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −5475
Std Dev 0
pull1D
Entries 87
Mean 0.0007623
Std Dev 1.127

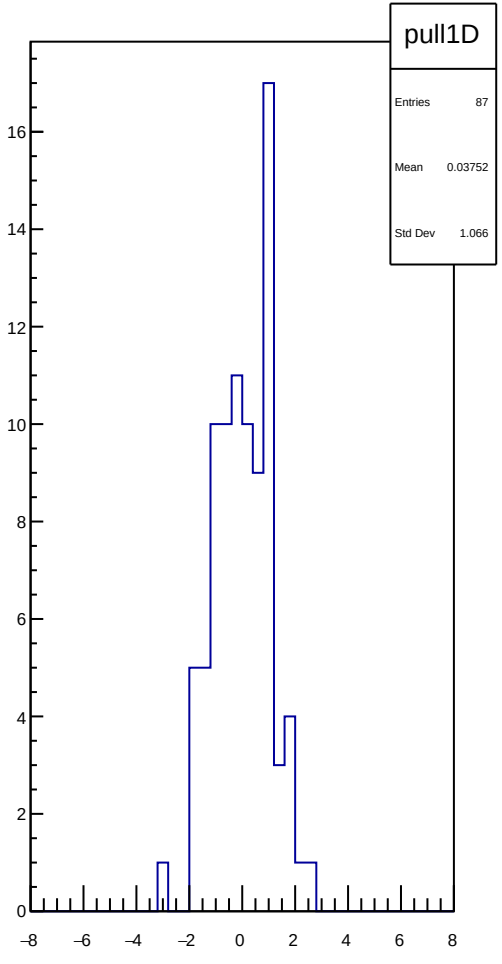

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.503e+04 / 86
p0 392.1 ± 0.3033
500
480
460
440
420
400
380
360
340
320

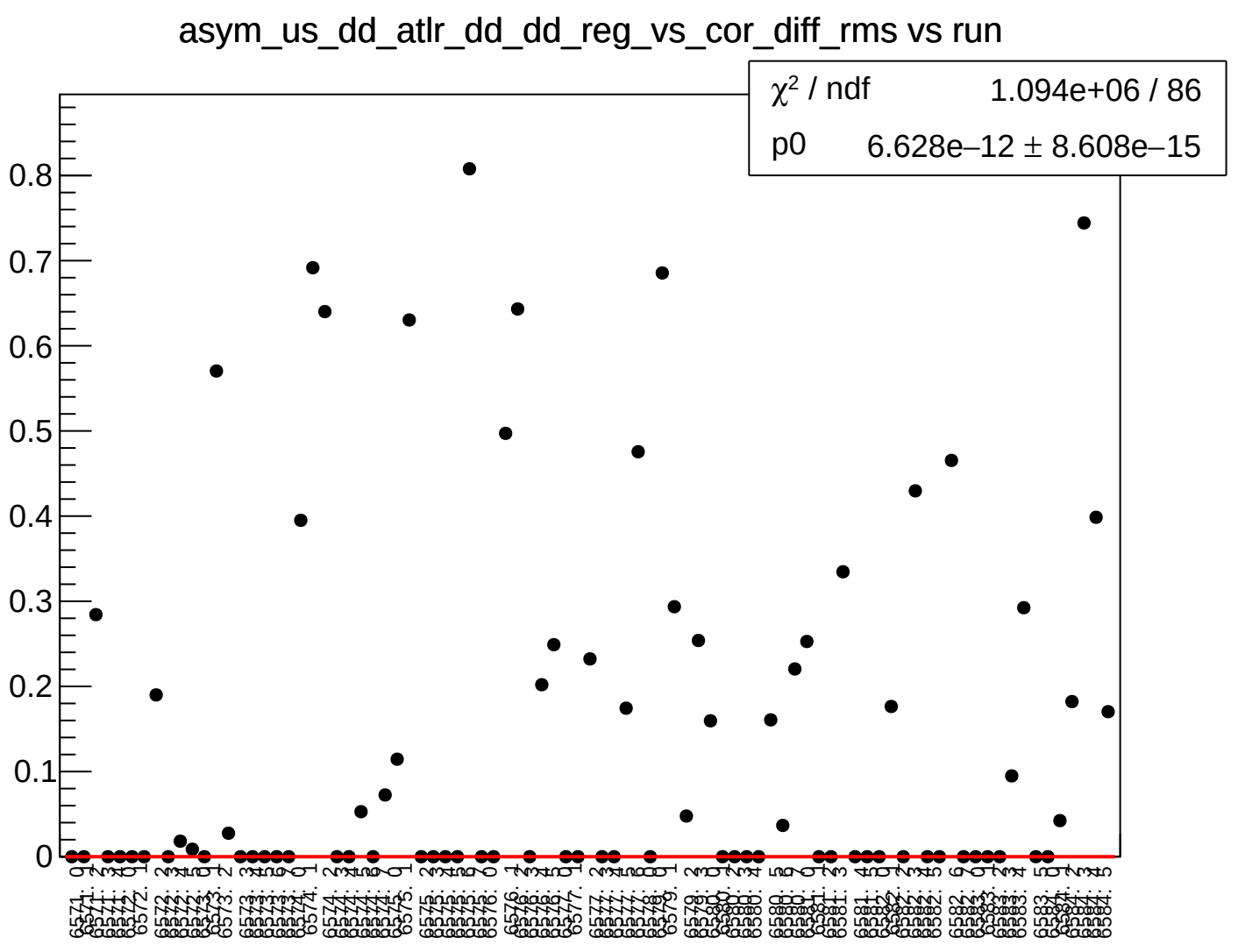

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 94.22 / 86
p0 −310.2 ± 1336
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 260
Std Dev 0
2
1
0
−1
−2

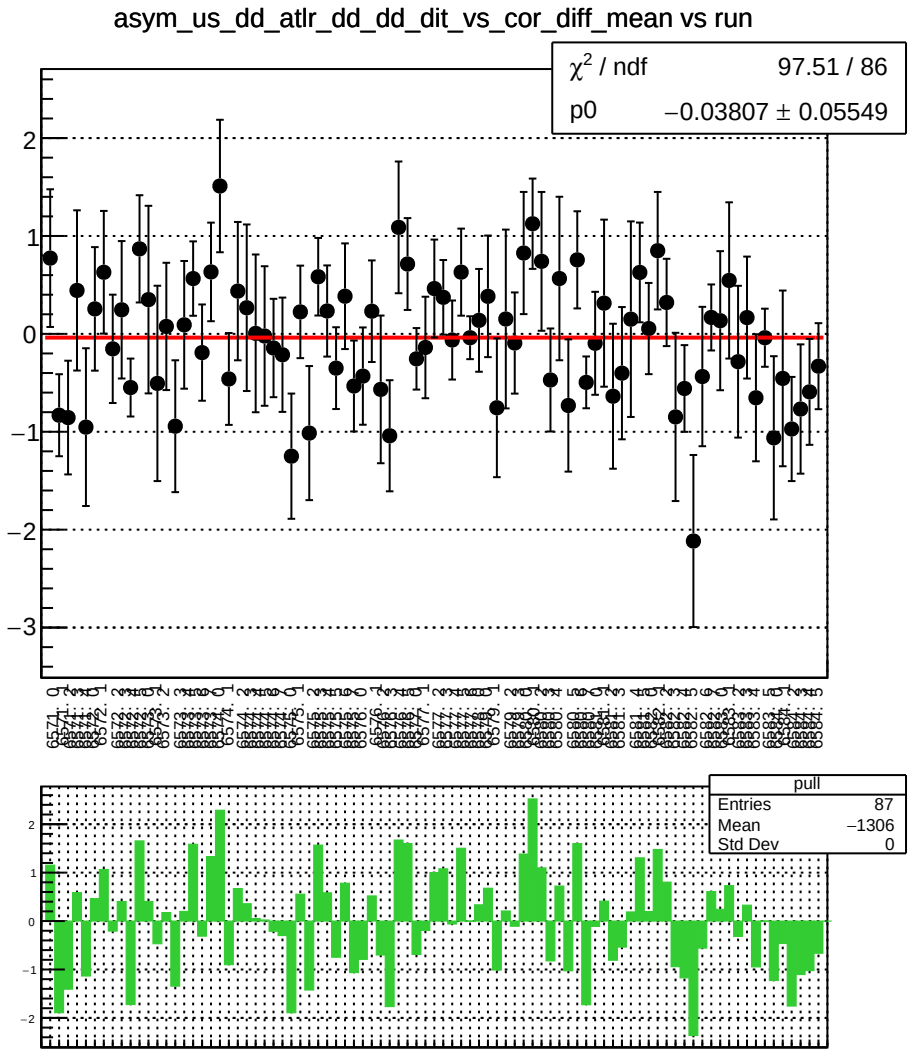

pull1D
Entries 87
Mean 0.01097
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

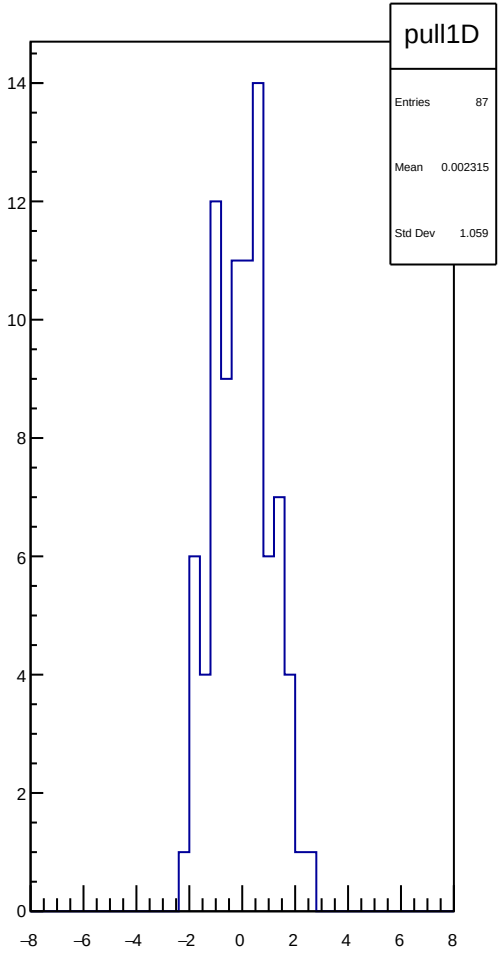

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 254.8 / 86
p0 1227 ± 0.945
1300
1280
1260
1240
1220
1200
1180

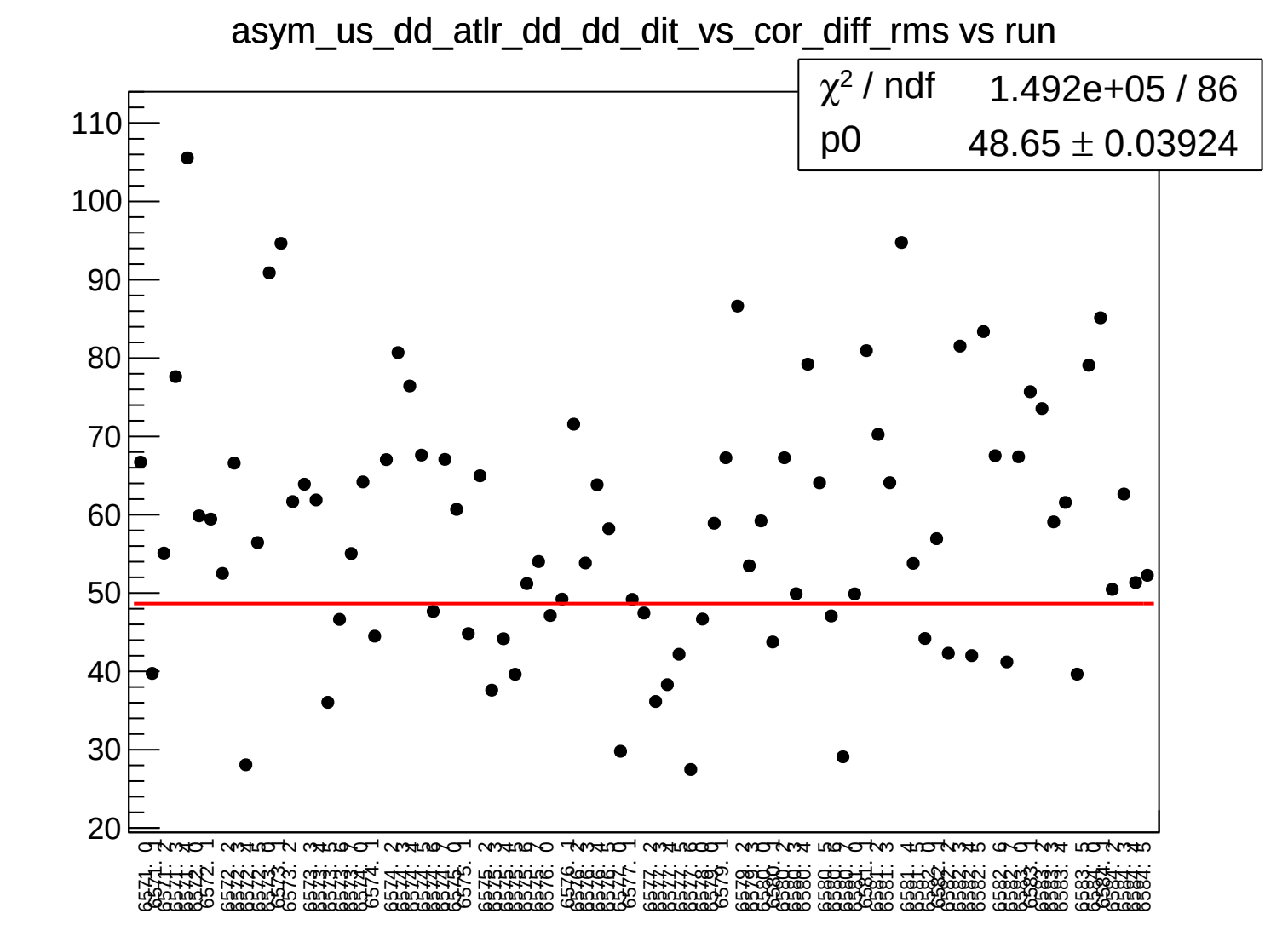

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.95 / 86
p0 3.562e−16 ± 1.217e−14
pull
Entries 87
Mean 124.6
Std Dev 0

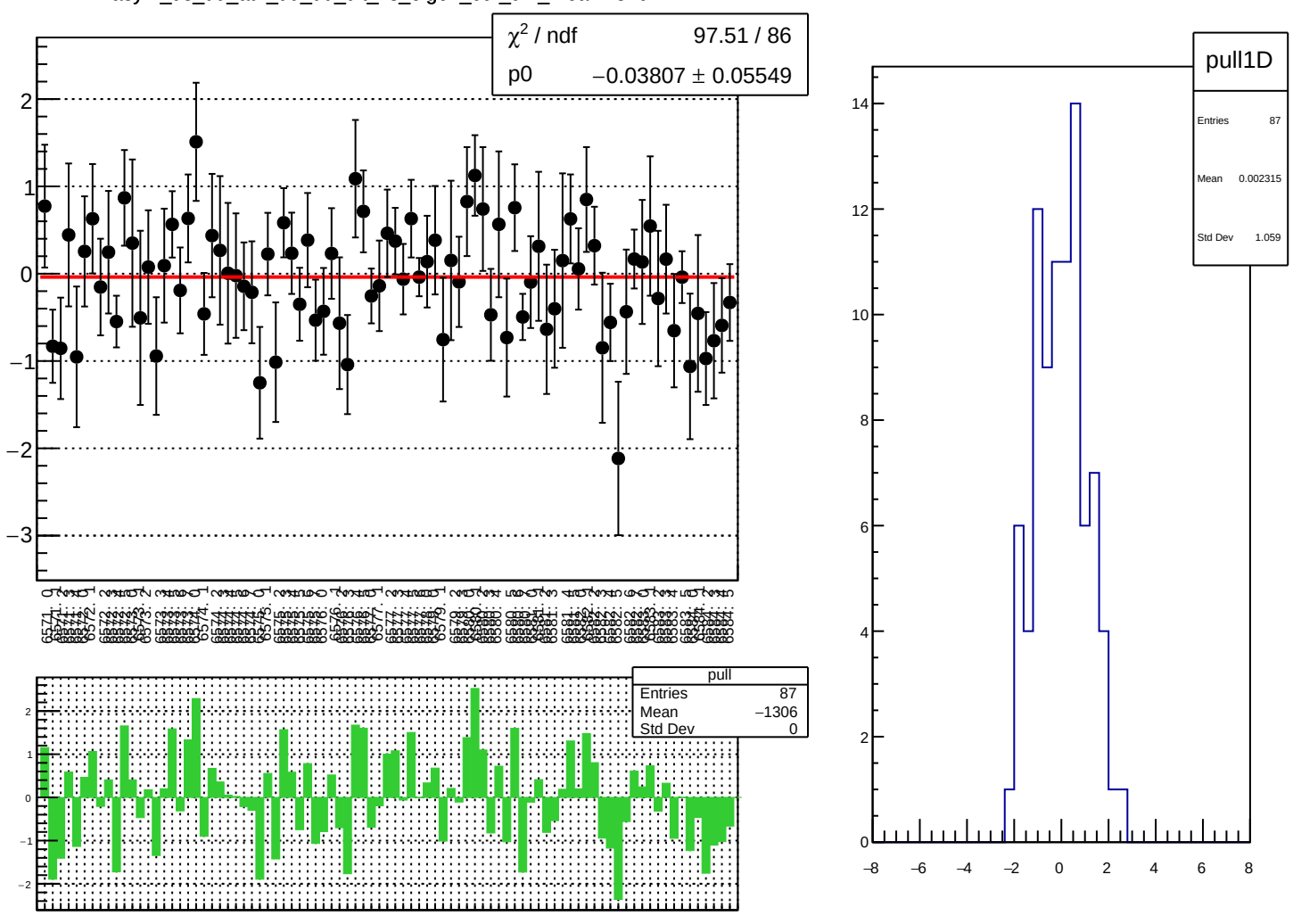

pull1D
Entries 87
Mean 0.03752
Std Dev 1.066

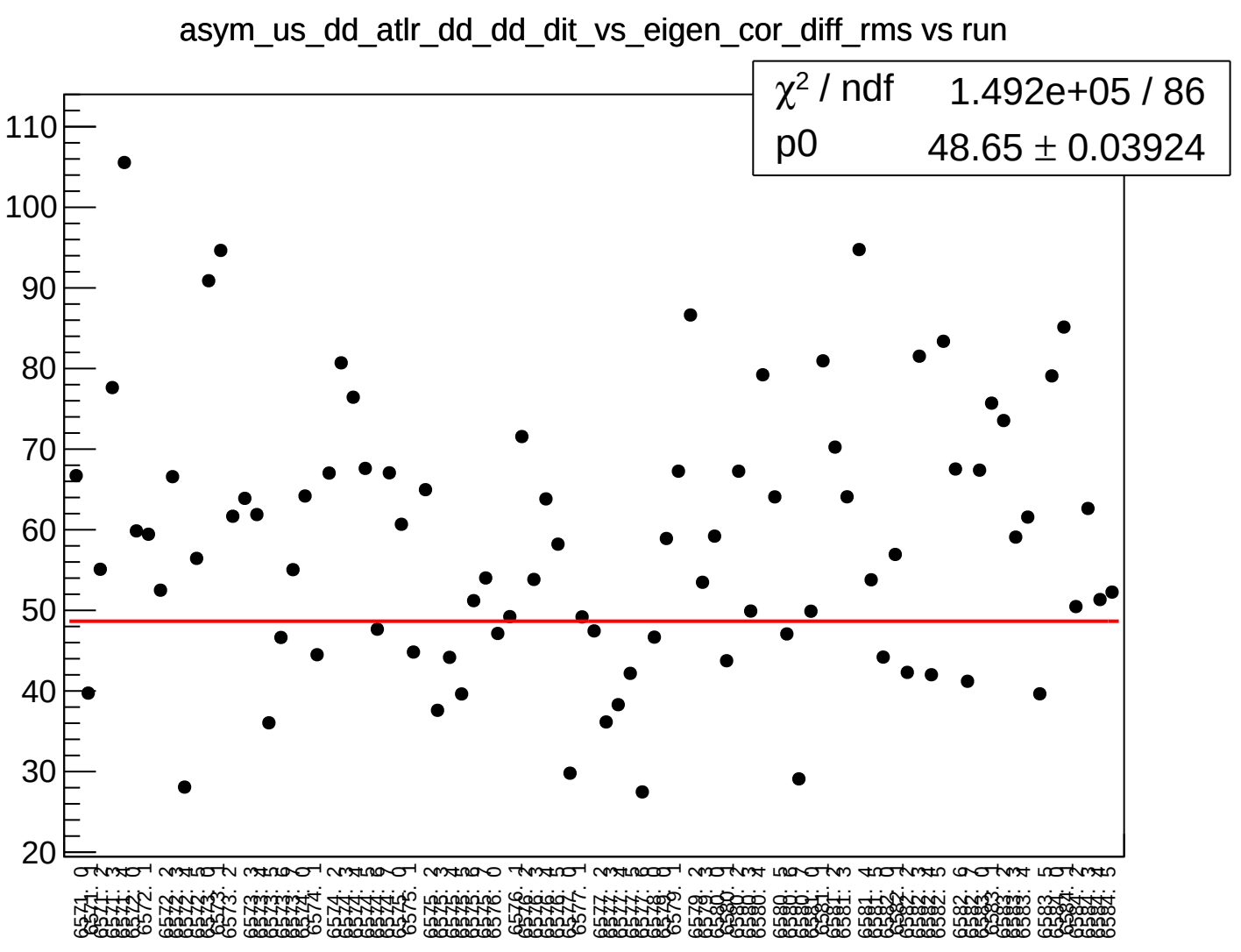

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.094e+06 / 86
p0 6.628e−12 ± 8.608e−15
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

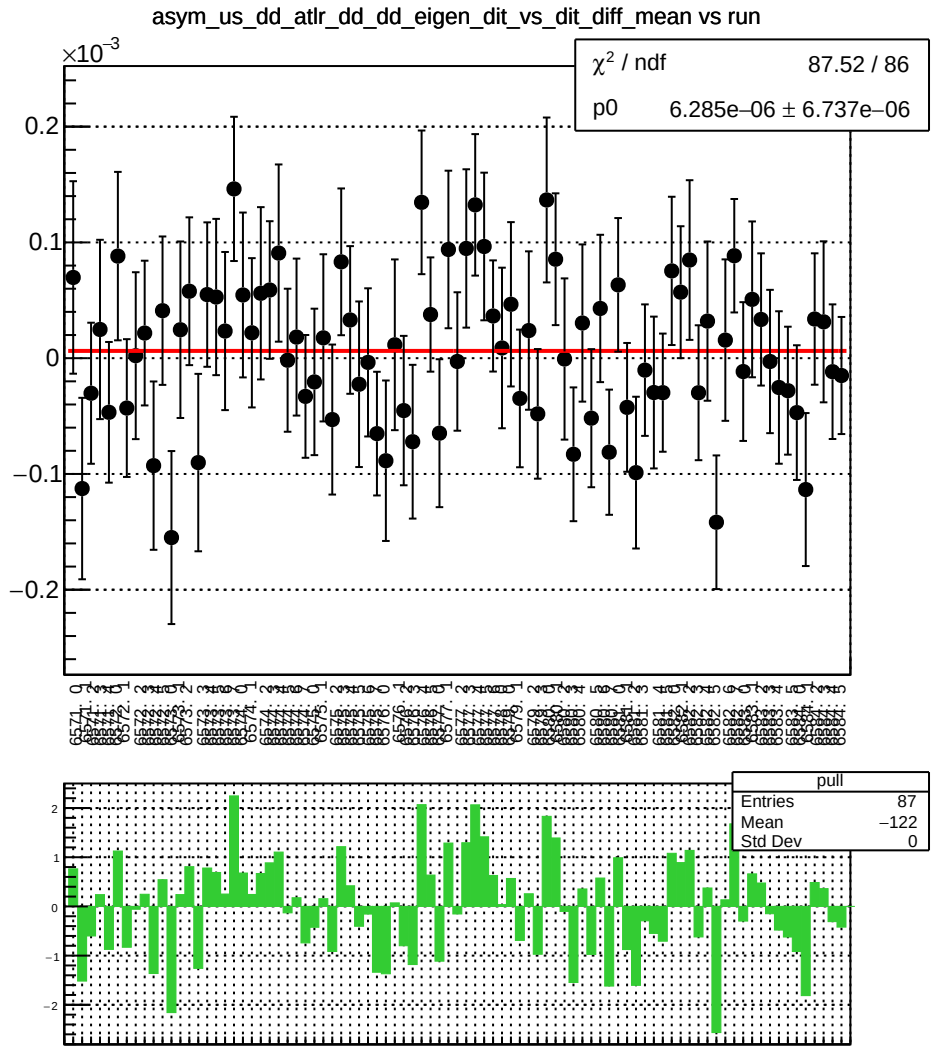

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.51 / 86
p0 −0.03807 ± 0.05549
pull
Entries 87
Mean −1306
Std Dev 0

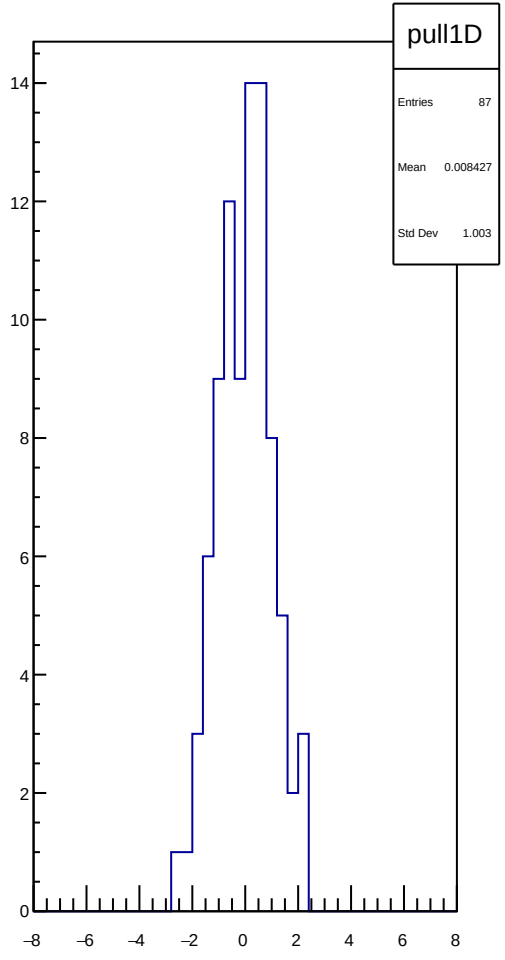

pull1D
Entries 87
Mean 0.002315
Std Dev 1.059

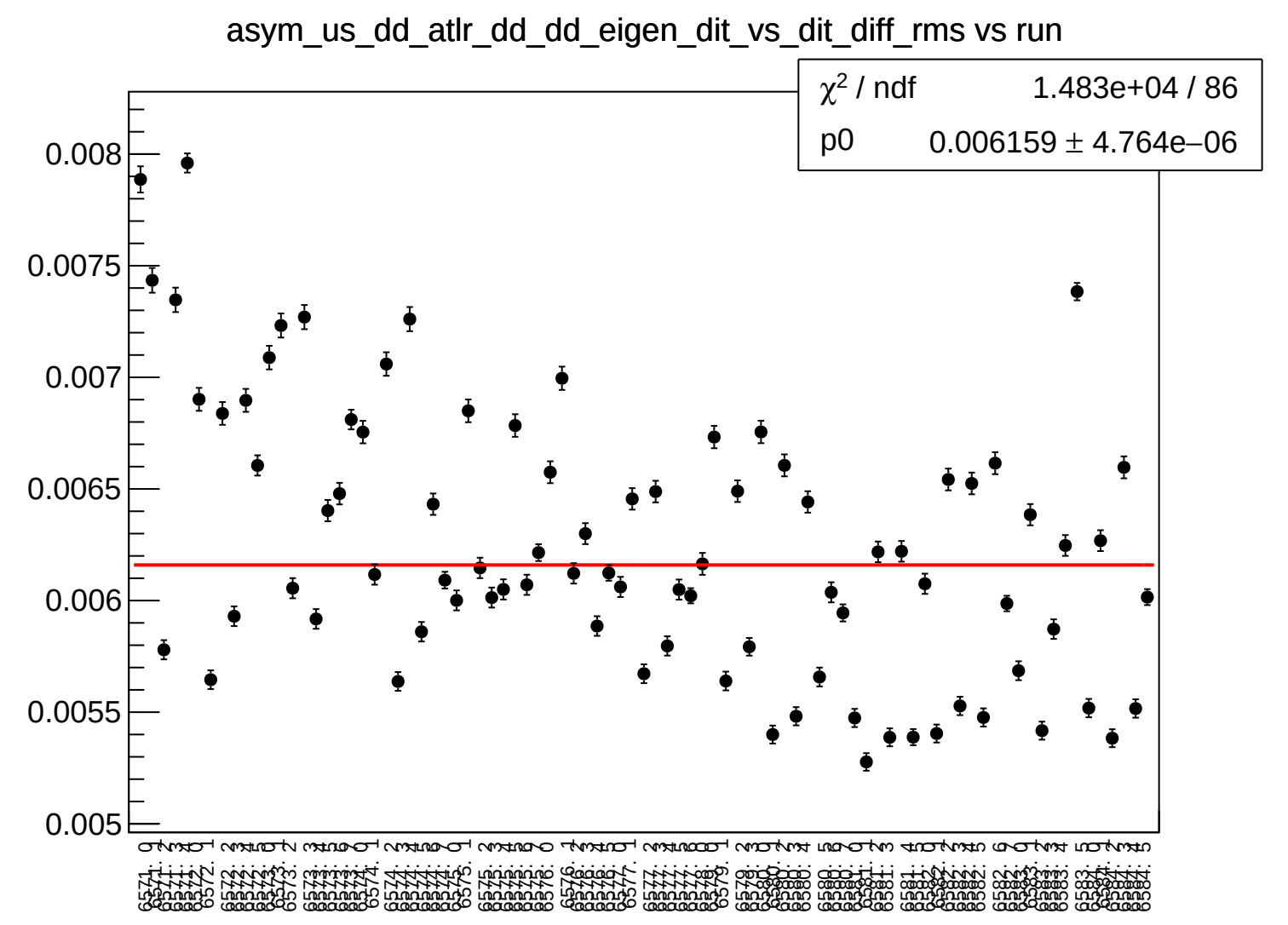

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 86
p0 48.65 ± 0.03924
110
100
90
80
70
60
50
40
30
20

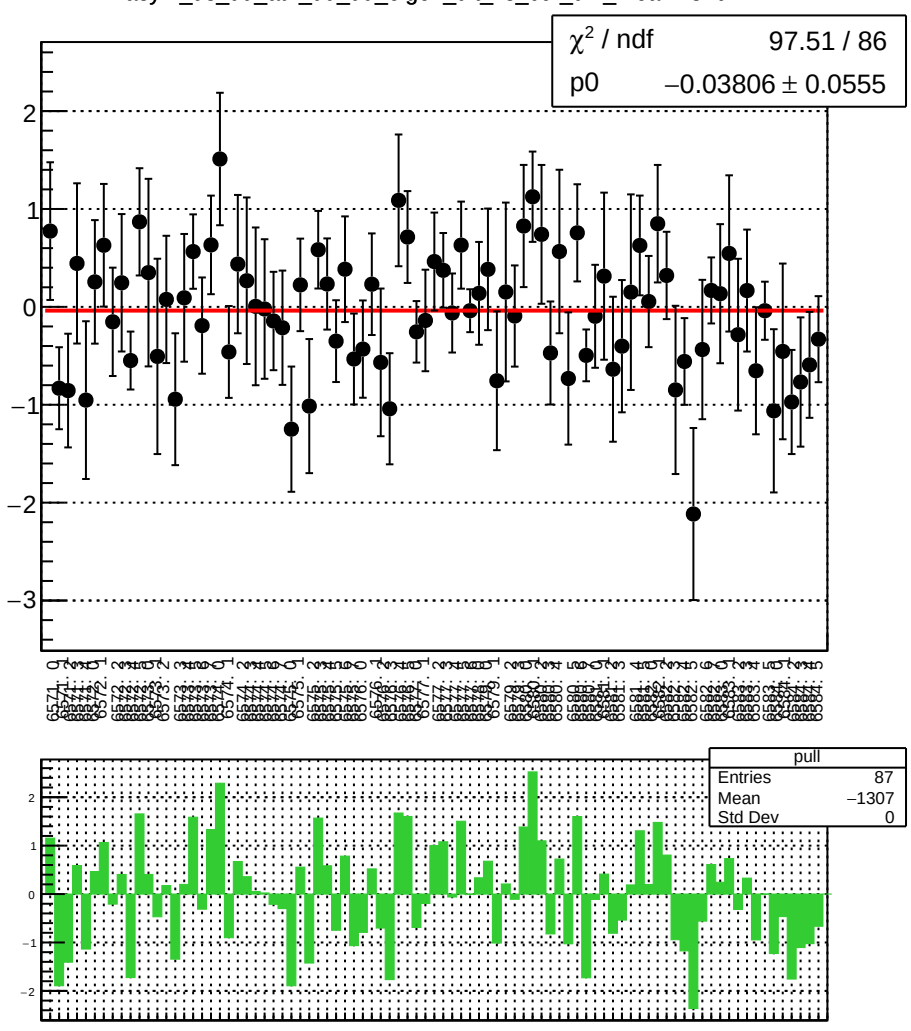

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.51 / 86
p0 −0.03807 ± 0.05549
pull
Entries 87
Mean −1306
Std Dev 0
pull1D
Entries 87
Mean 0.002315
Std Dev 1.059

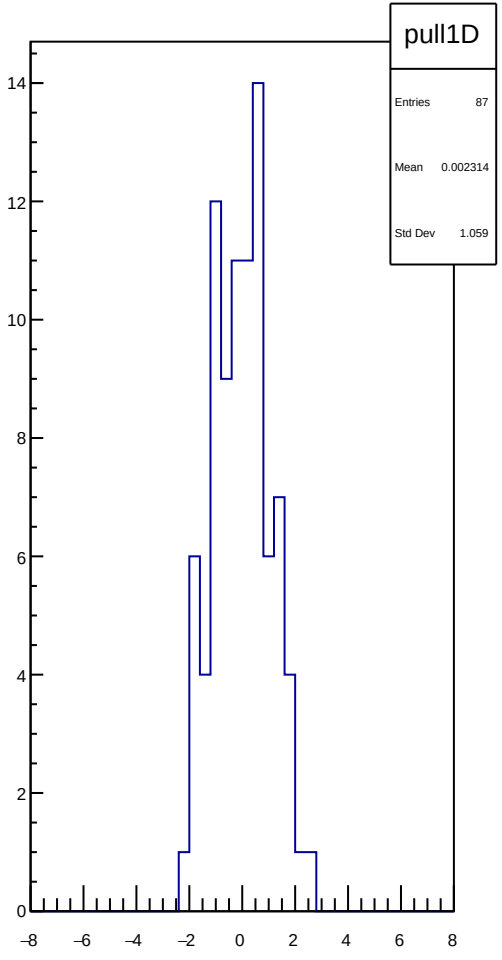

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 86
p0 48.65 ± 0.03924
110
100
90
80
70
60
50
40
30
20

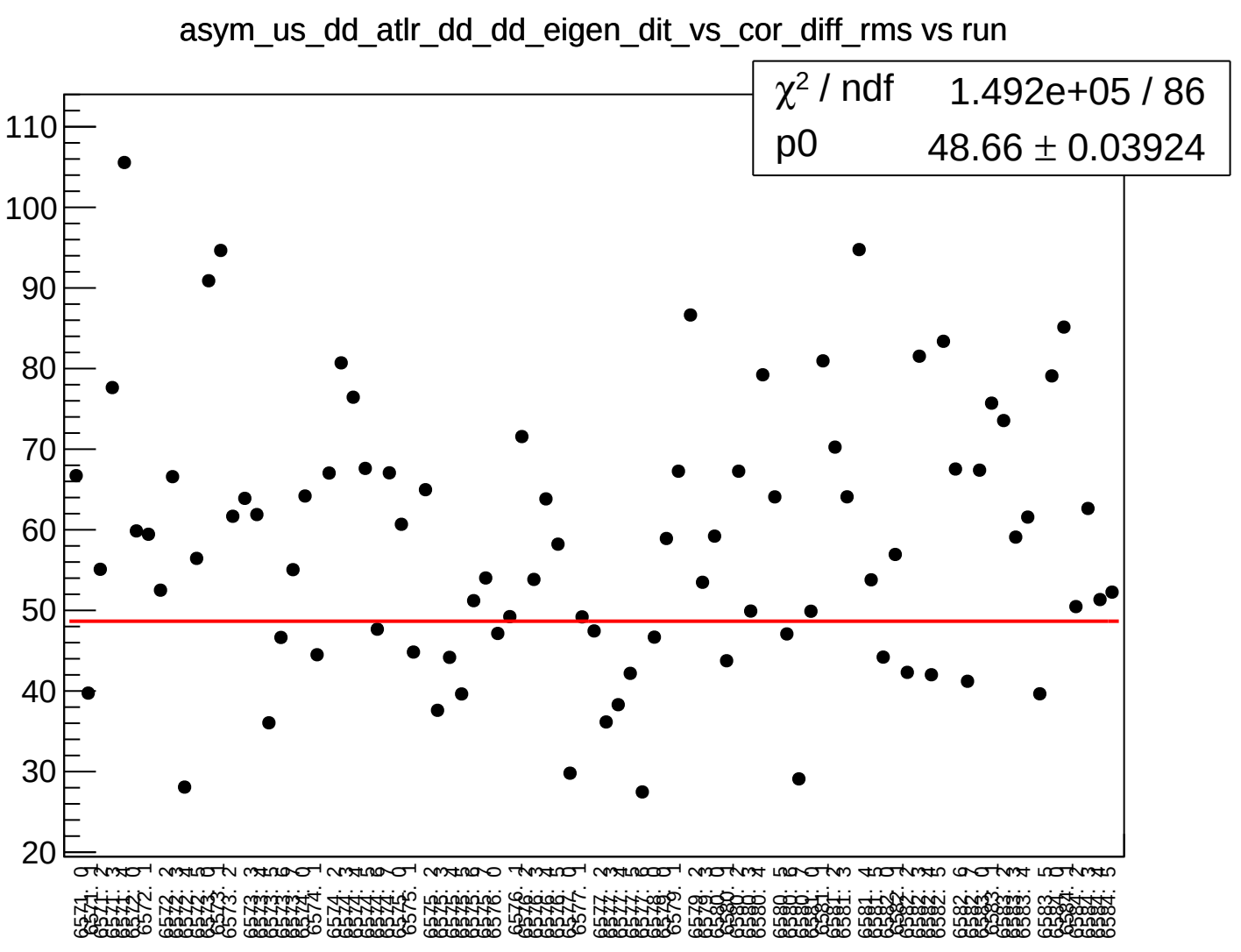

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.52 / 86
p0 6.285e−06 ± 6.737e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 87
Mean −122
Std Dev 0
2
1
0
−1
−2

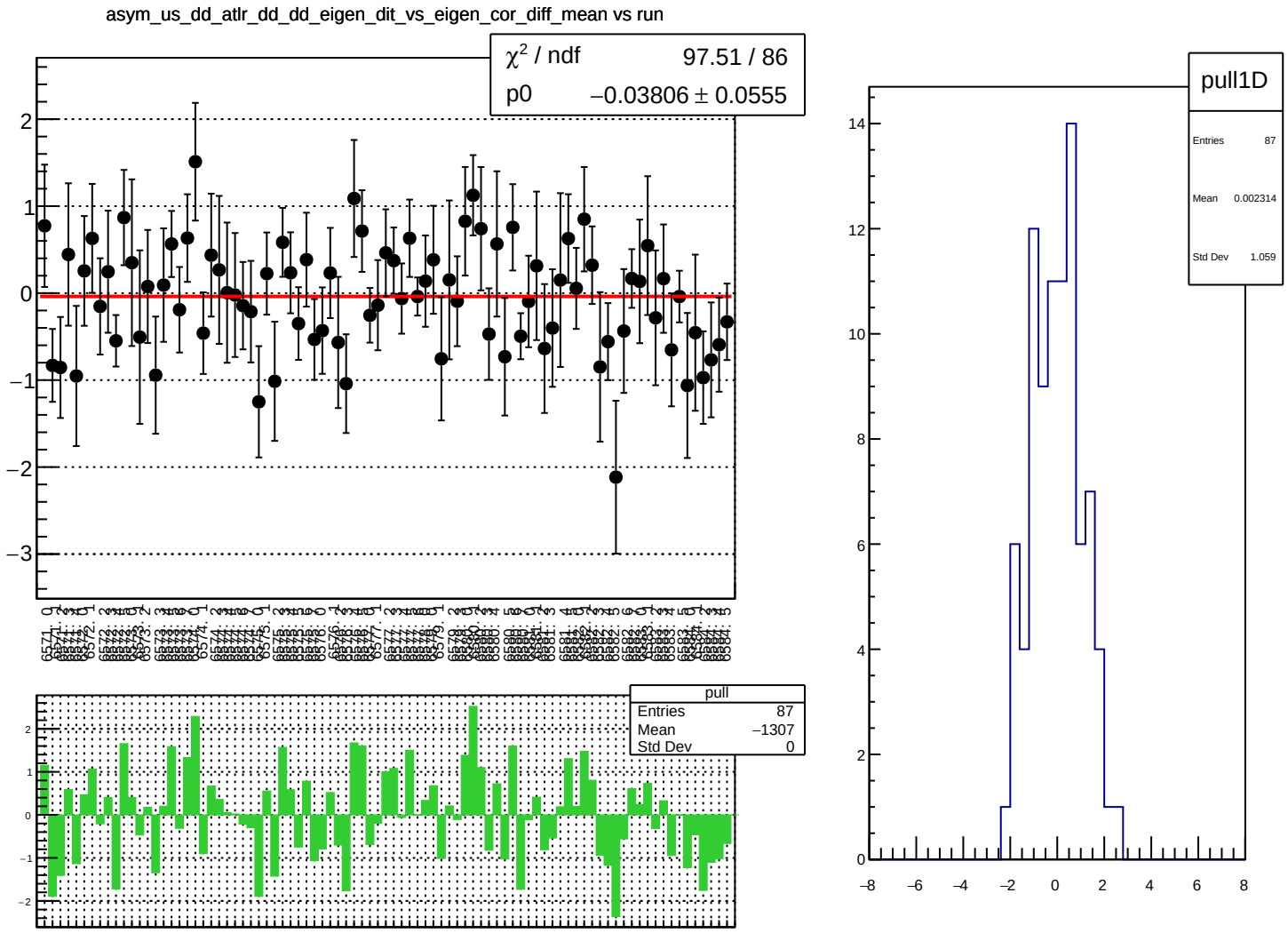

pull1D
Entries 87
Mean 0.008427
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

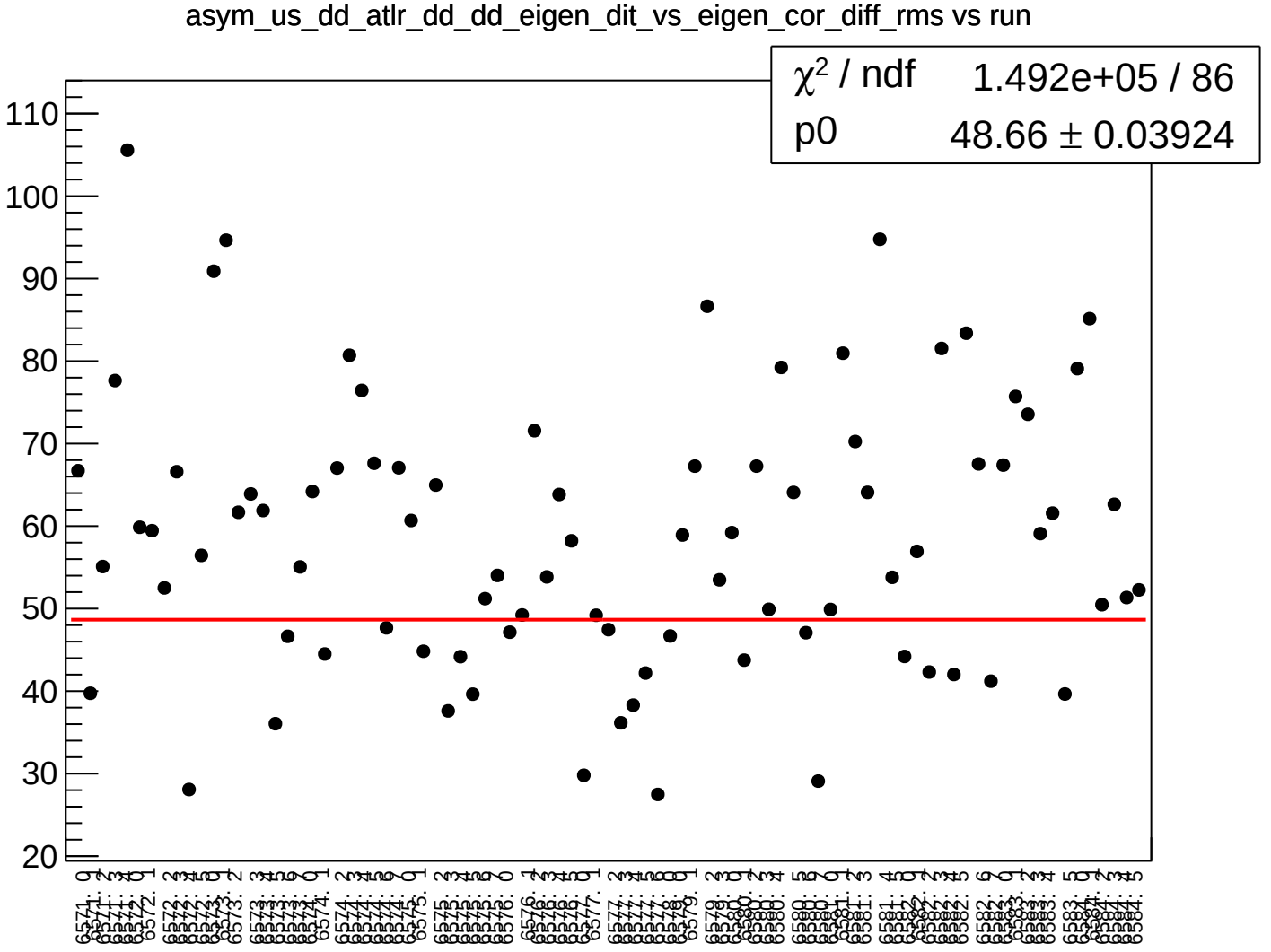

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.483e+04 / 86
p0 0.006159 ± 4.764e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

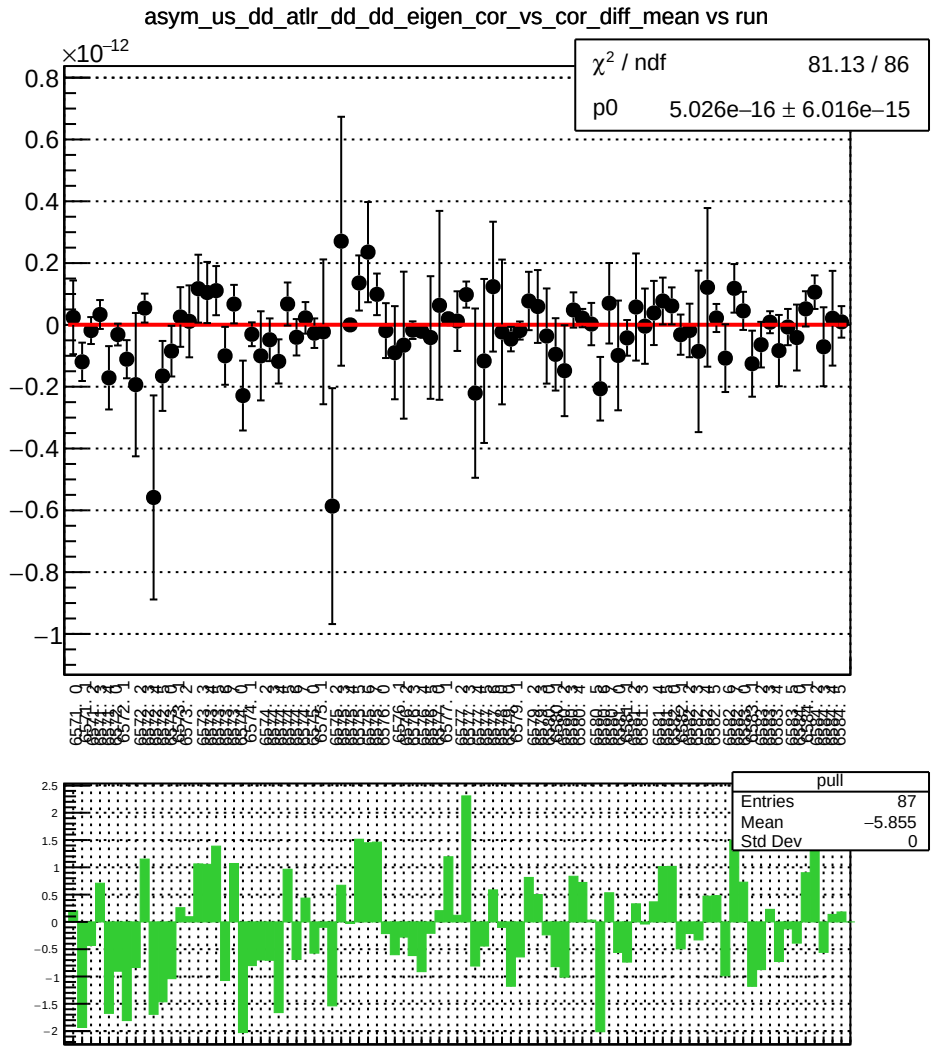

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.51 / 86
p0 −0.03806 ± 0.0555
pull
Entries 87
Mean −1307
Std Dev 0

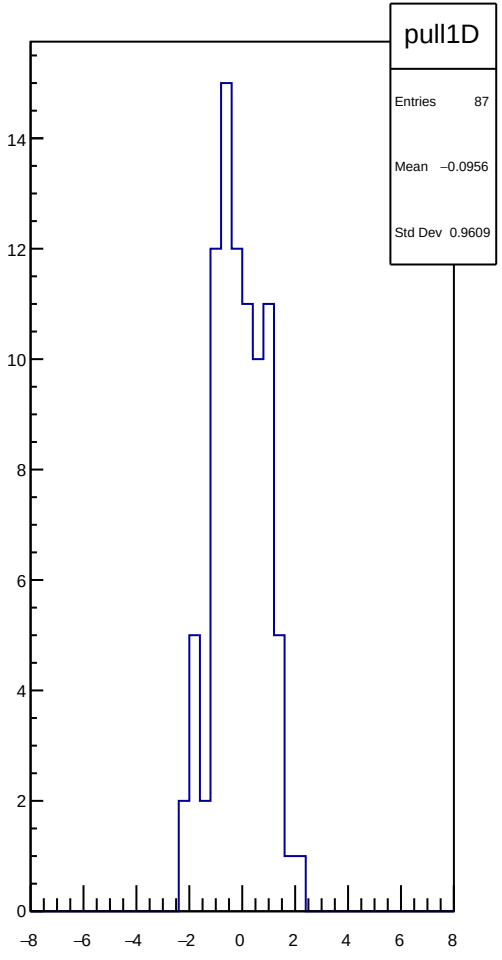

pull1D
Entries 87
Mean 0.002314
Std Dev 1.059

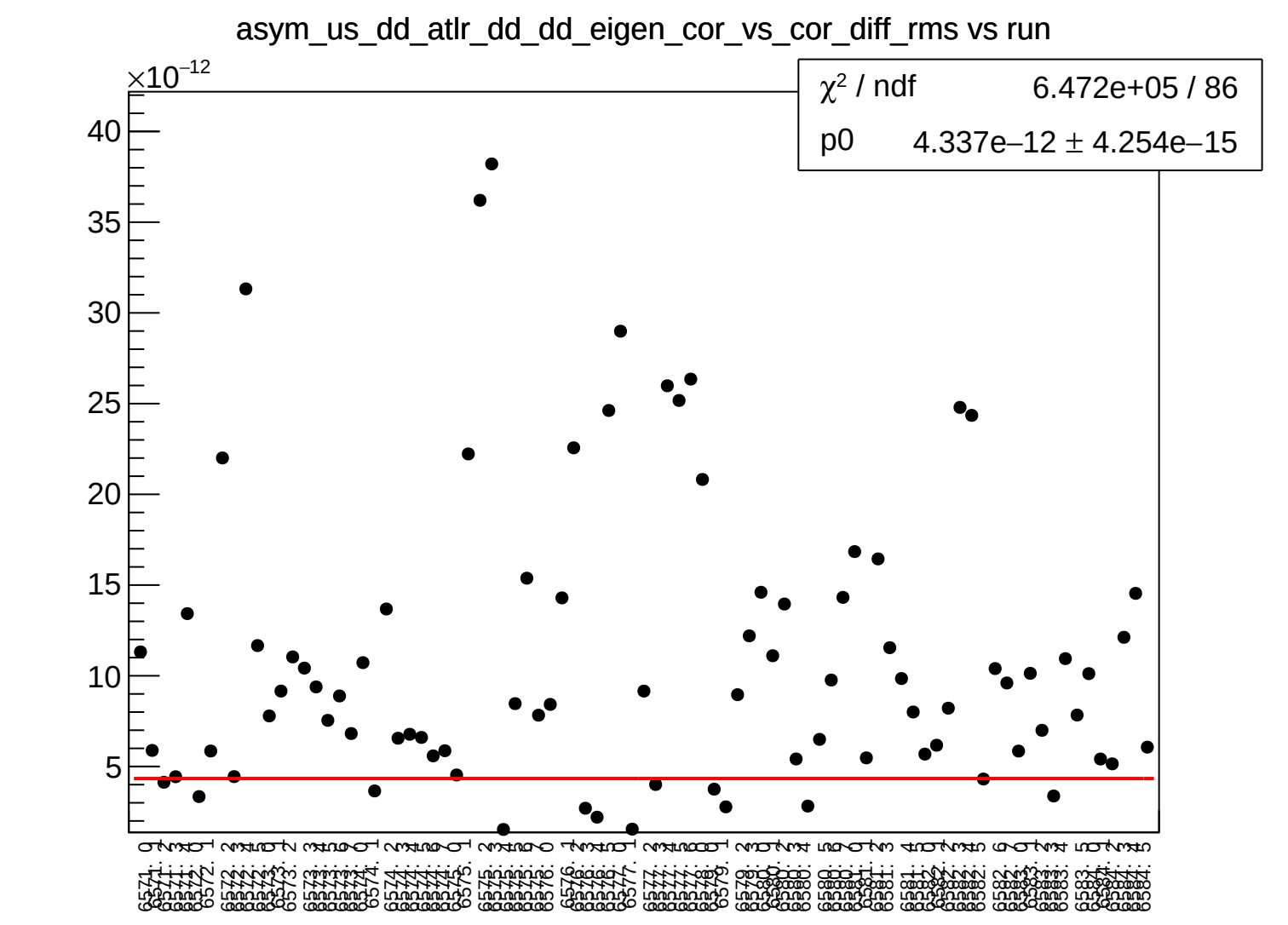

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 86
p0 48.66 ± 0.03924
110
100
90
80
70
60
50
40
30
20

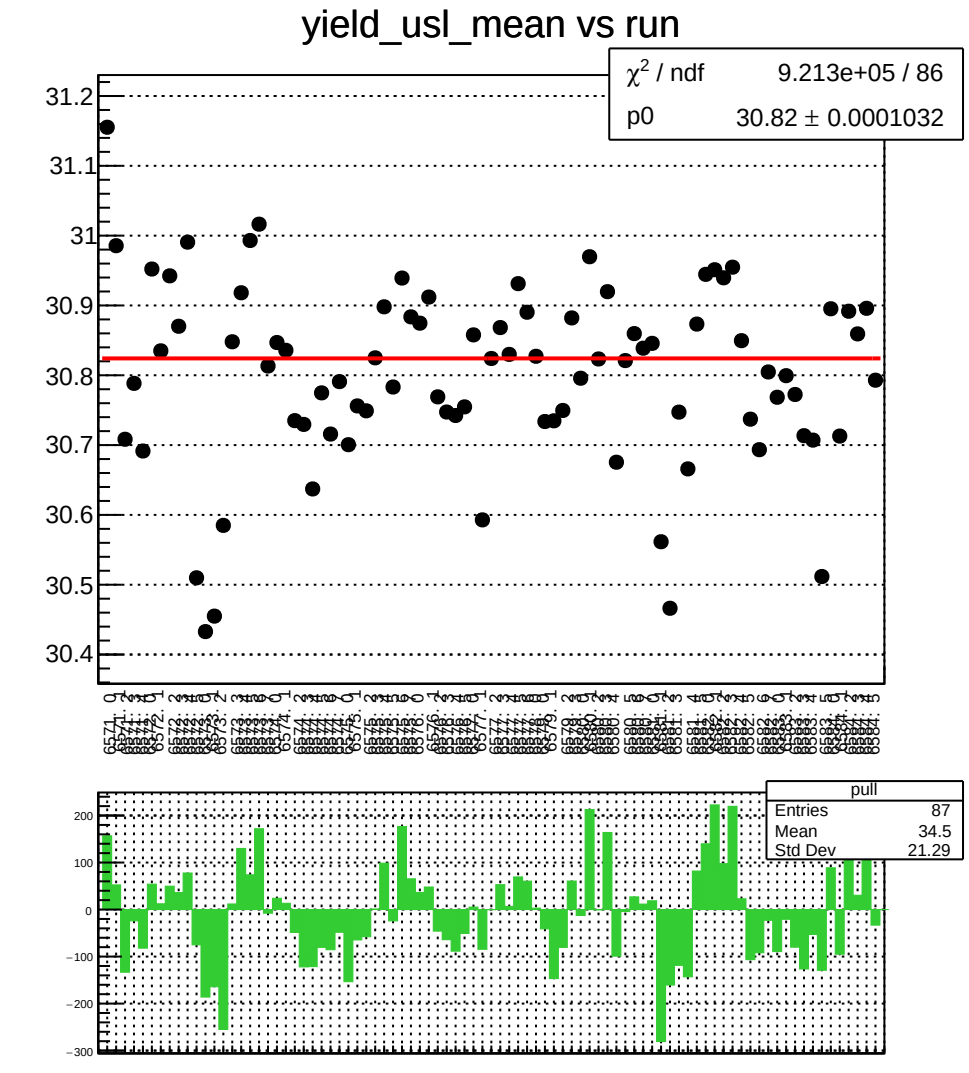

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.51 / 86
p0 −0.03806 ± 0.0555
pull
Entries 87
Mean −1307
Std Dev 0
pull1D
Entries 87
Mean 0.002314
Std Dev 1.059

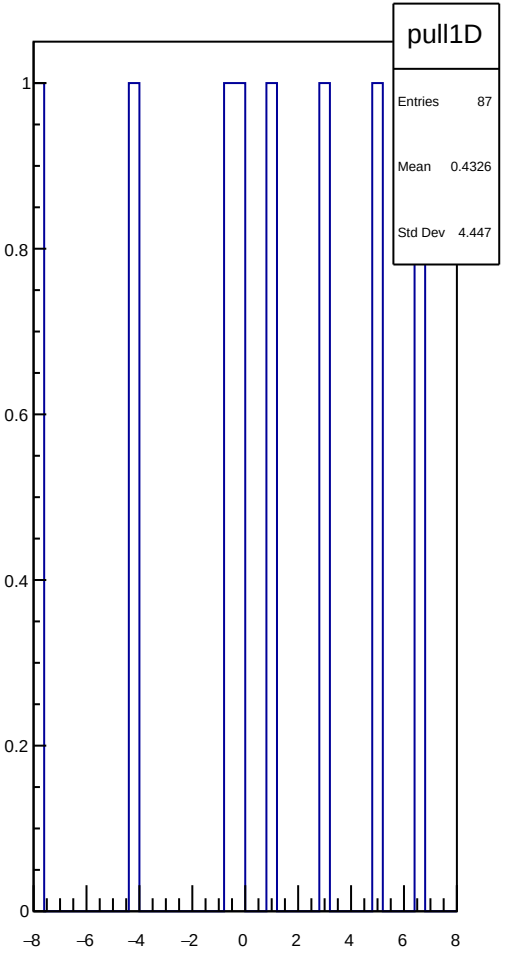

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 86
p0 48.66 ± 0.03924
110
100
90
80
70
60
50
40
30
20

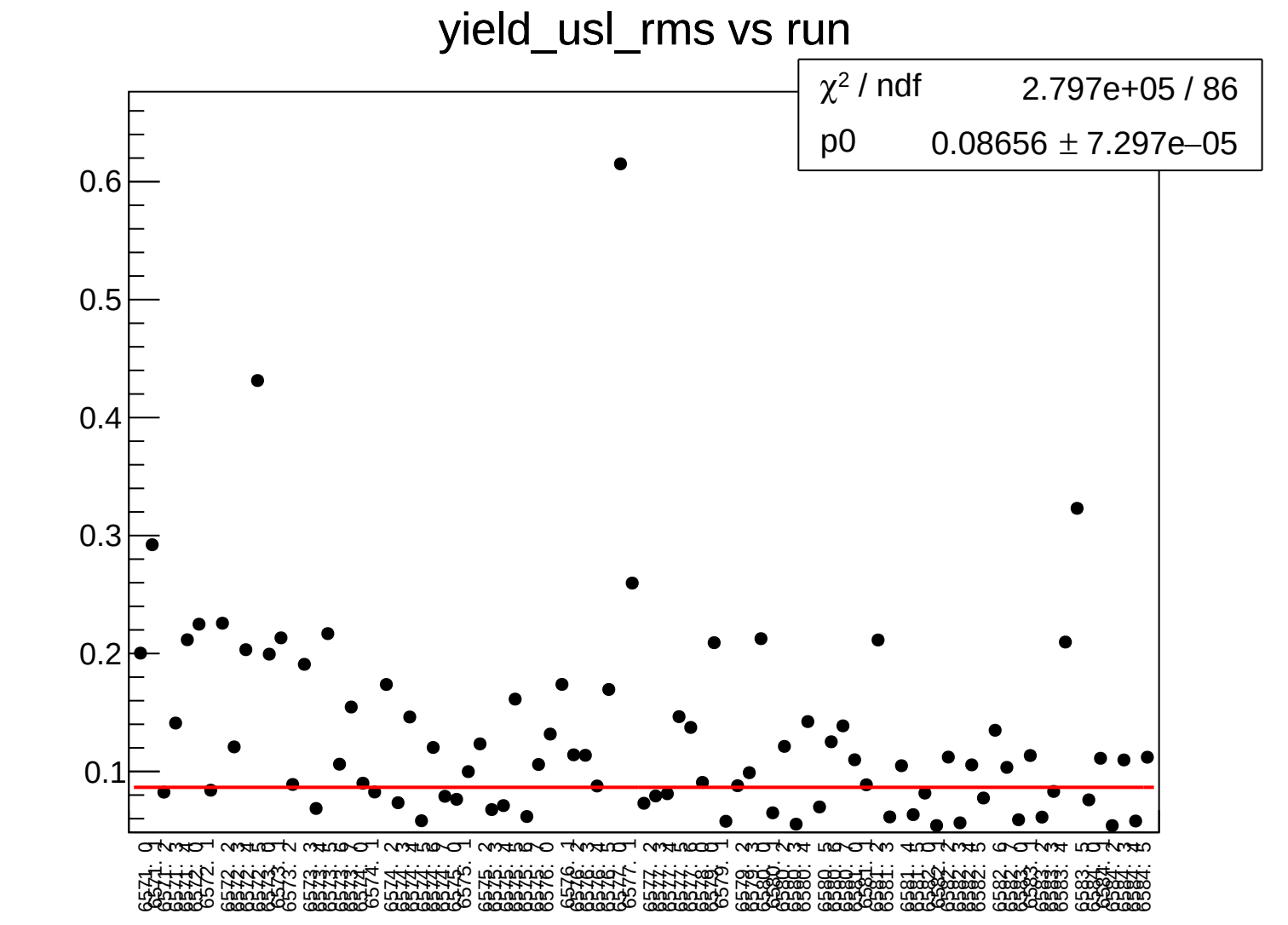

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.13 / 86
p0 5.026e−16 ± 6.016e−15
pull
Entries 87
Mean −5.855
Std Dev 0

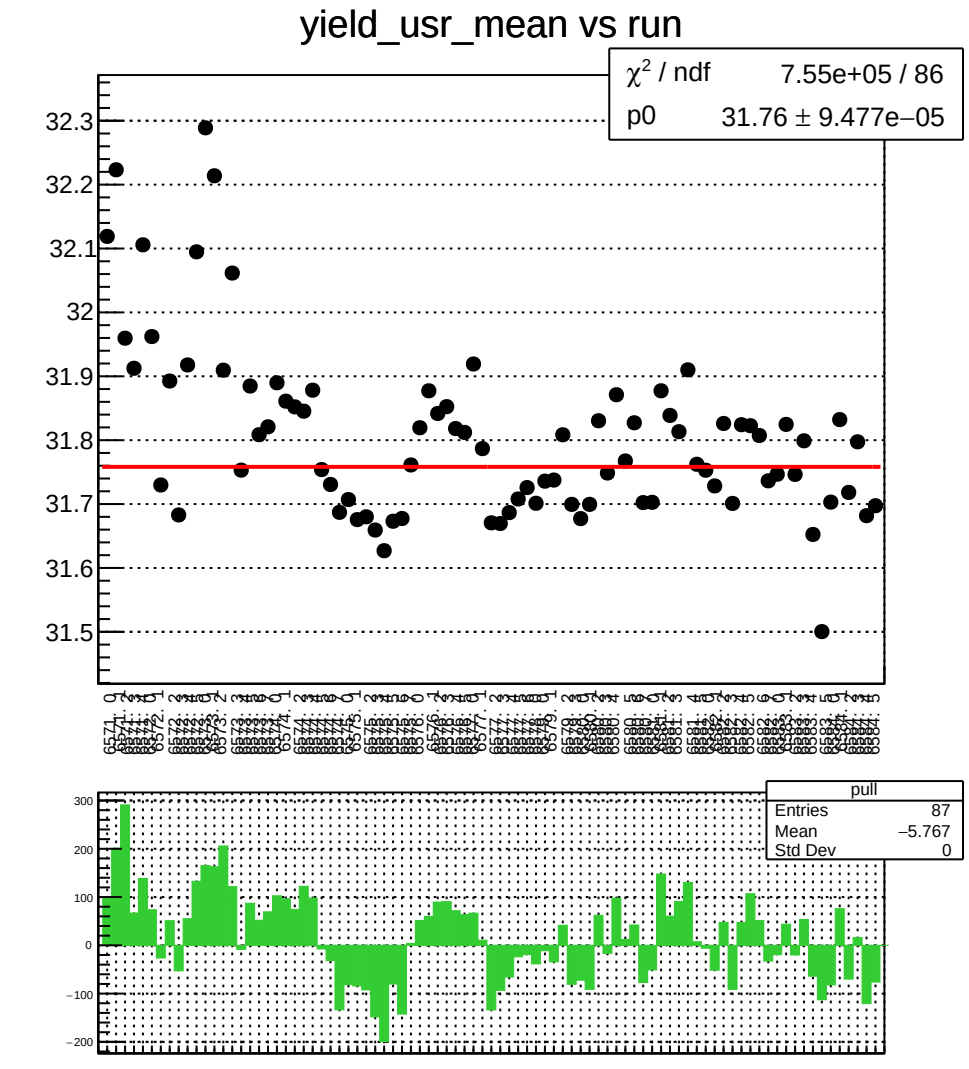

pull1D
Entries 87
Mean −0.0956
Std Dev 0.9609

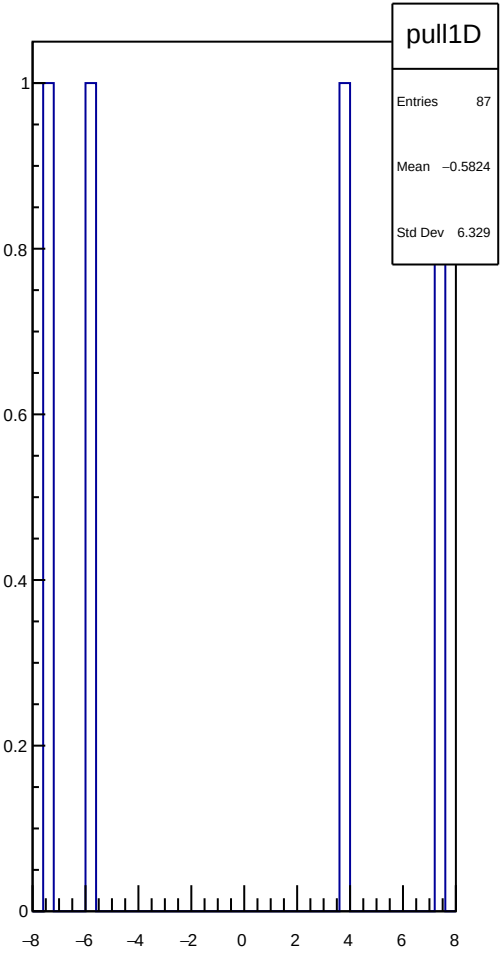

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.472e+05 / 86
p0 4.337e−12 ± 4.254e−15
40
35
30
25
20
15
10
5

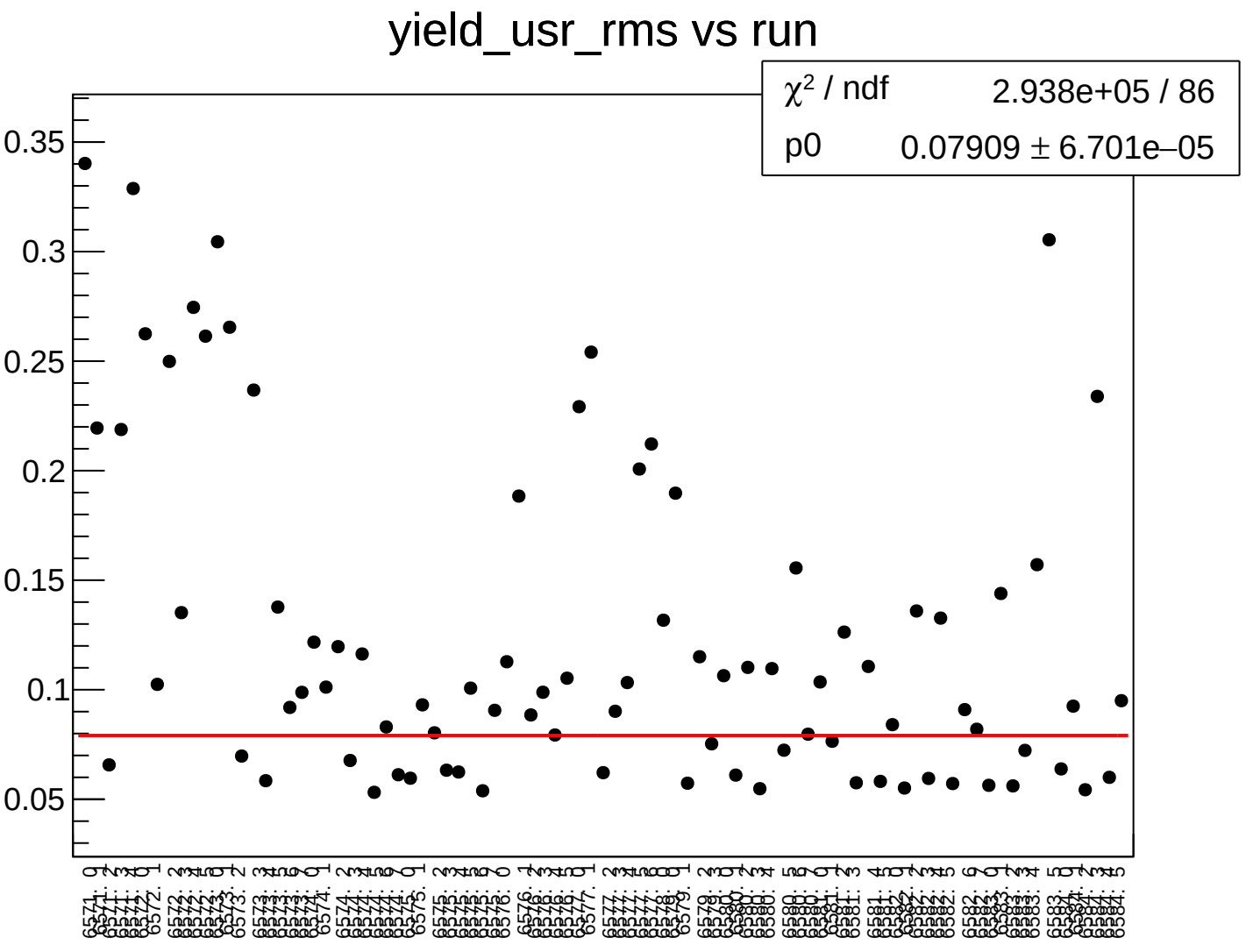

yield_usl_mean vs run
χ² / ndf 9.213e+05 / 86
p0 30.82 ± 0.0001032
31.2
31.1
31
30.9
30.8
30.7
30.6
30.5
30.4
pull
Entries 87
Mean 34.5
Std Dev 21.29
200
100
0
−100
−200
−300

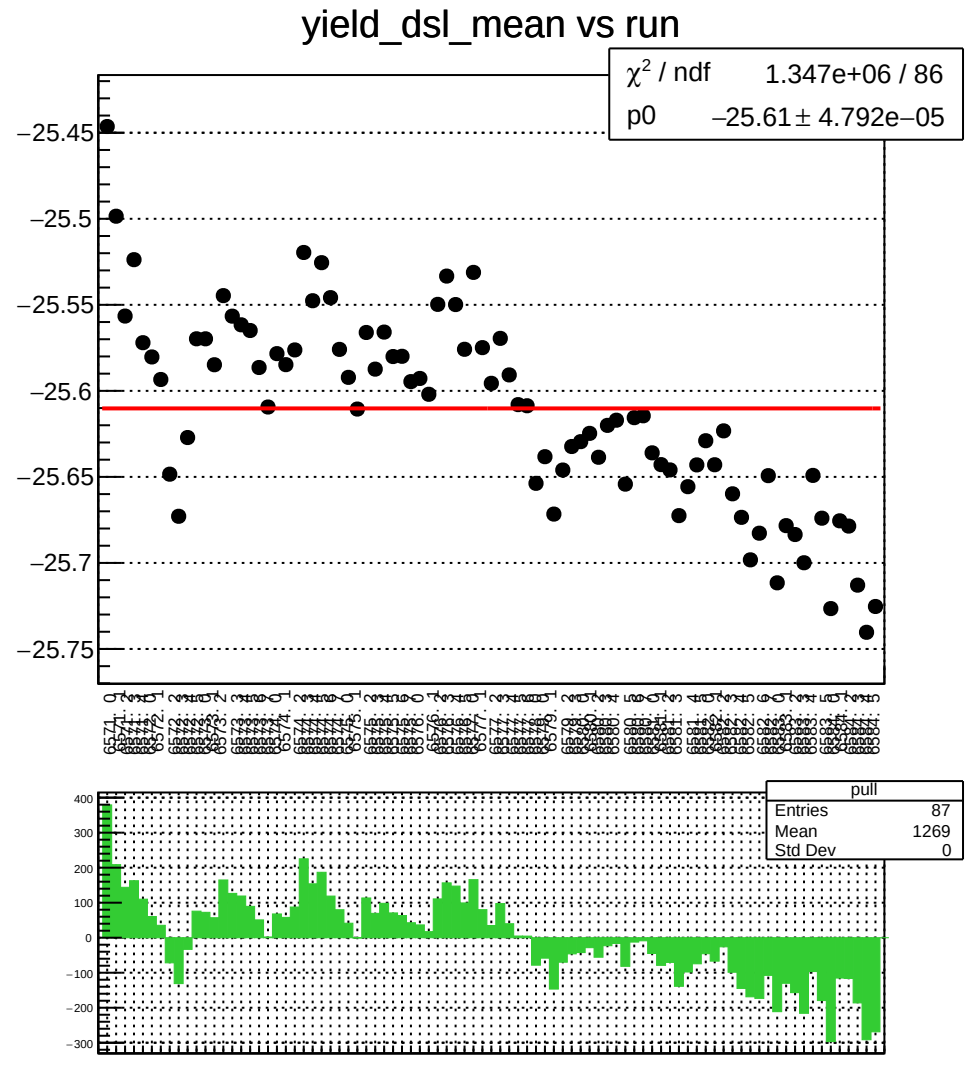

pull1D
Entries 87
Mean 0.4326
Std Dev 4.447
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

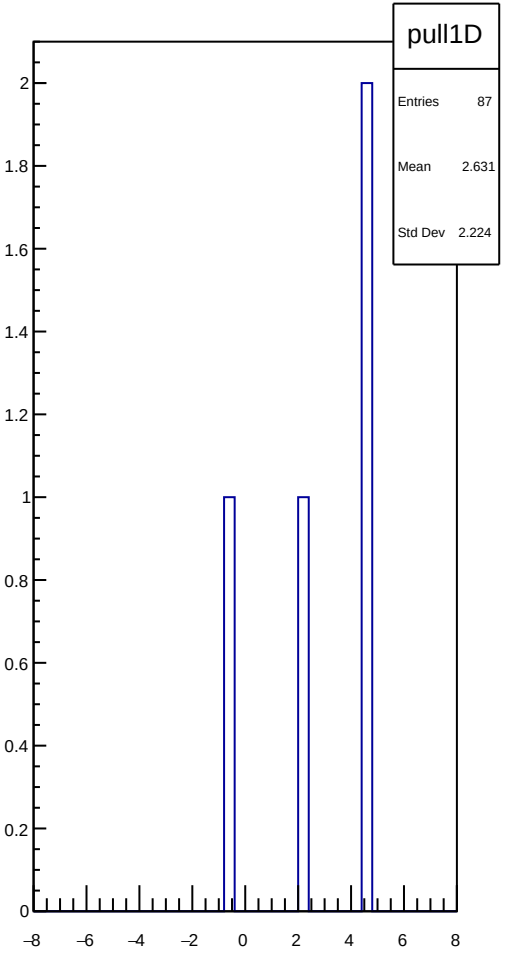

yield_usl_rms vs run
χ² / ndf 2.797e+05 / 86
p0 0.08656 ± 7.297e–05
0.6
0.5
0.4
0.3
0.2
0.1

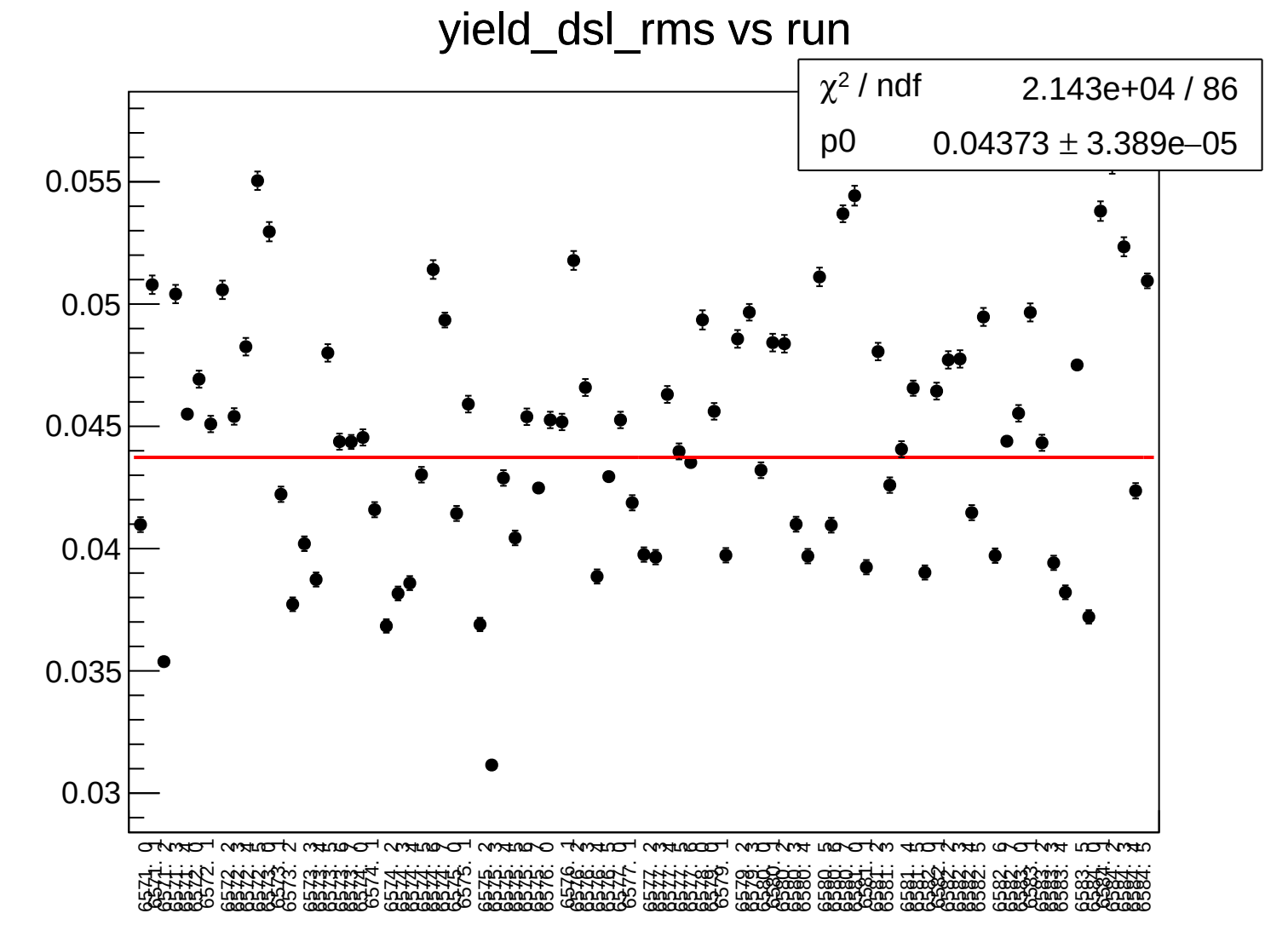

yield_usr_mean vs run
χ² / ndf 7.55e+05 / 86
p0 31.76 ± 9.477e−05
32.3
32.2
32.1
32
31.9
31.8
31.7
31.6
31.5
pull
Entries 87
Mean −5.767
Std Dev 0
300
200
100
0
−100
−200

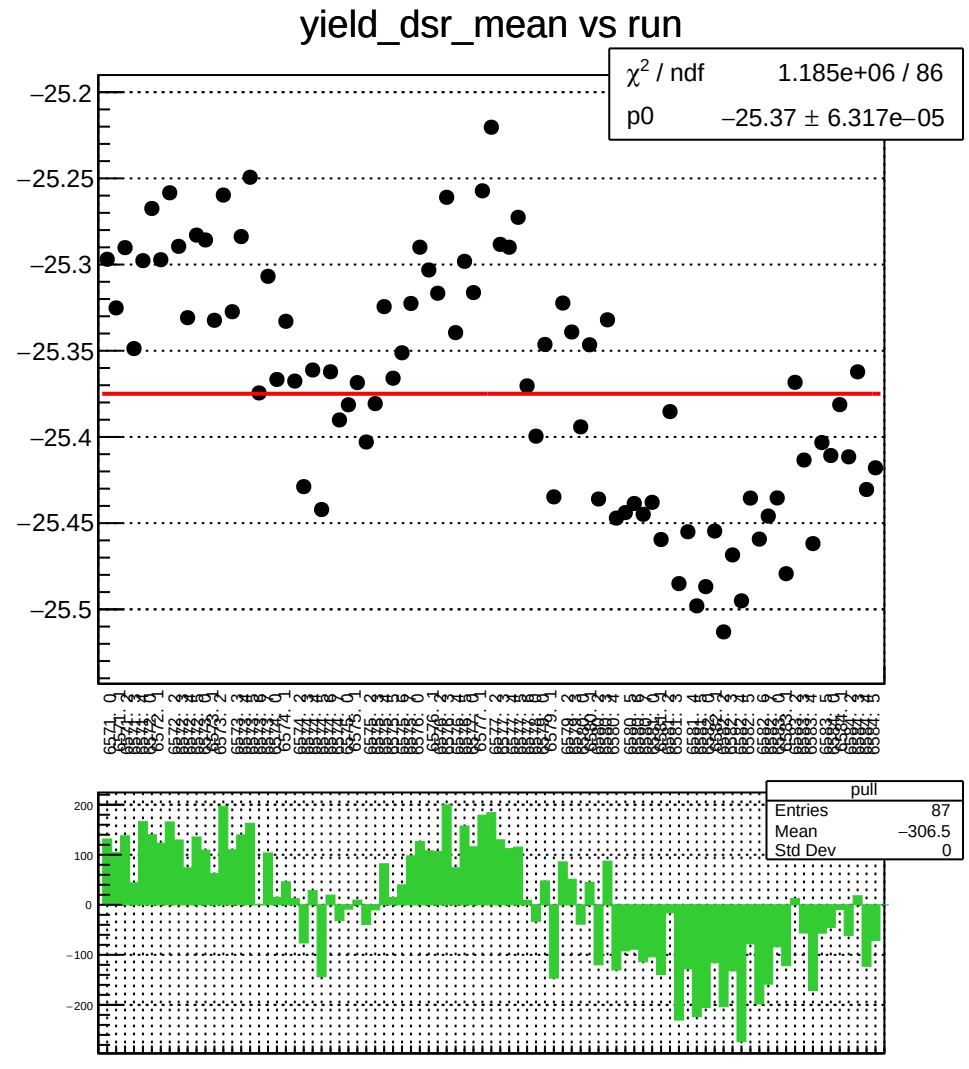

pull1D
Entries 87
Mean −0.5824
Std Dev 6.329
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

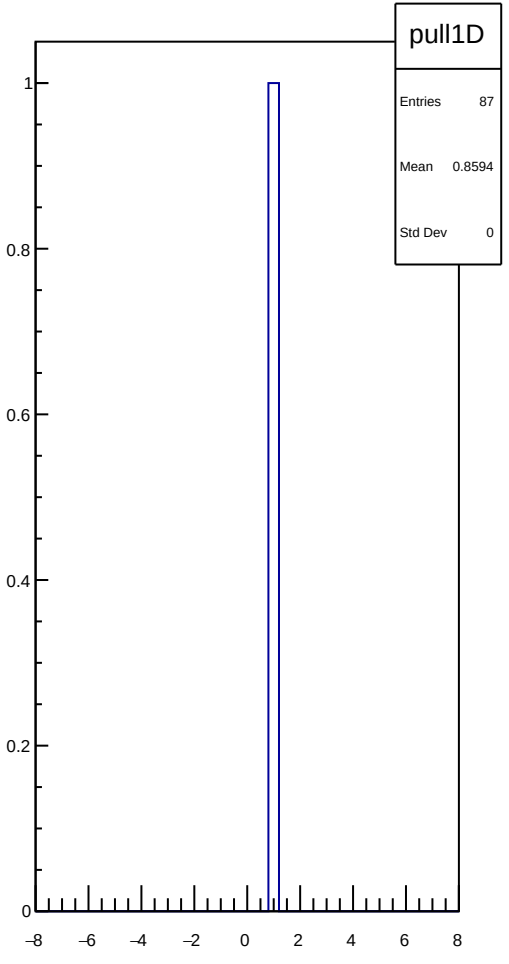

yield_usr_rms vs run
χ² / ndf 2.938e+05 / 86
p0 0.07909 ± 6.701e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

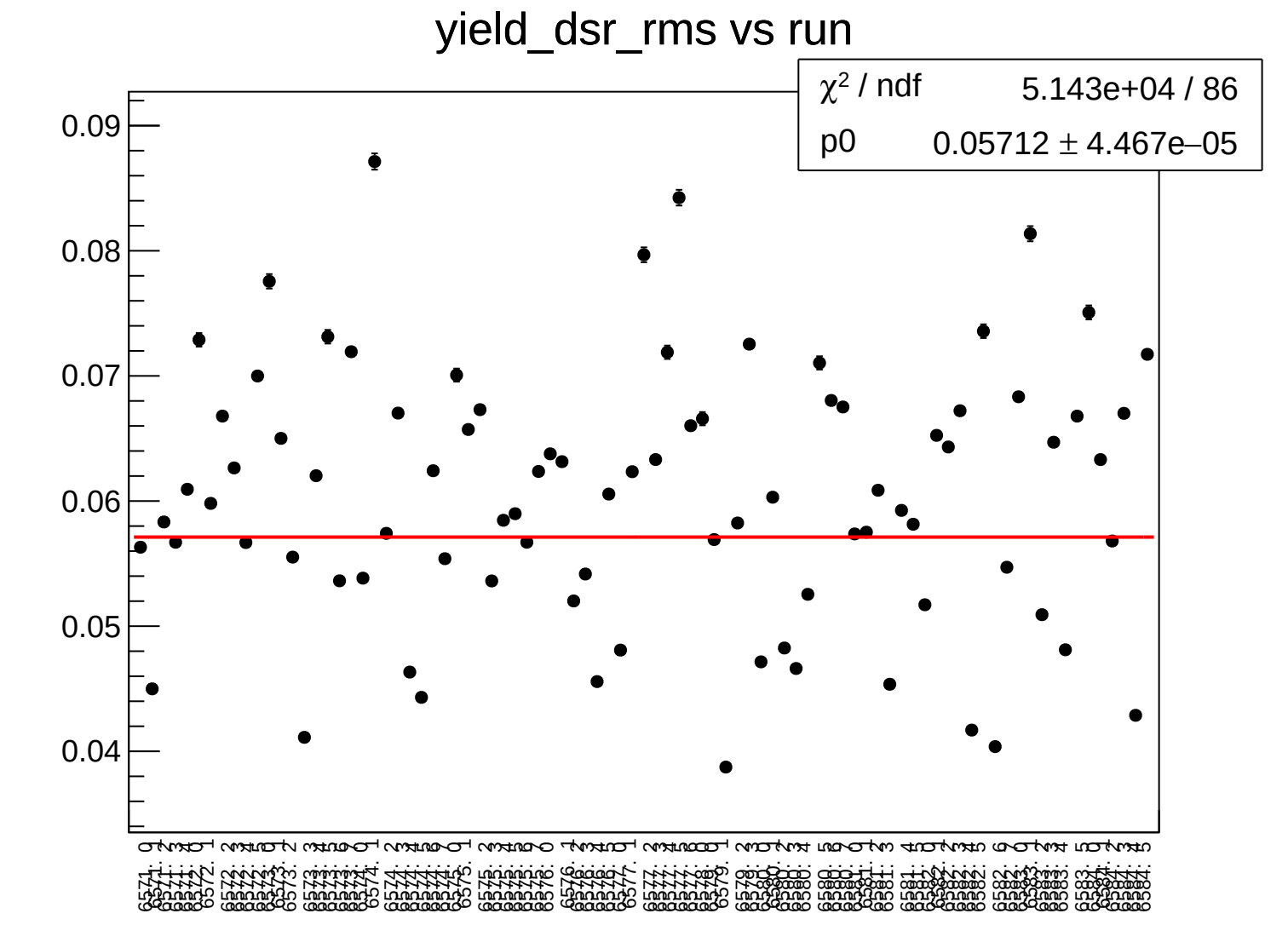

yield_dsl_mean vs run
χ² / ndf 1.347e+06 / 86
p0 −25.61 ± 4.792e−05
−25.45
−25.5
−25.55
−25.6
−25.65
−25.7
−25.75
pull
Entries 87
Mean 1269
Std Dev 0
400
300
200
100
0
−100
−200
−300

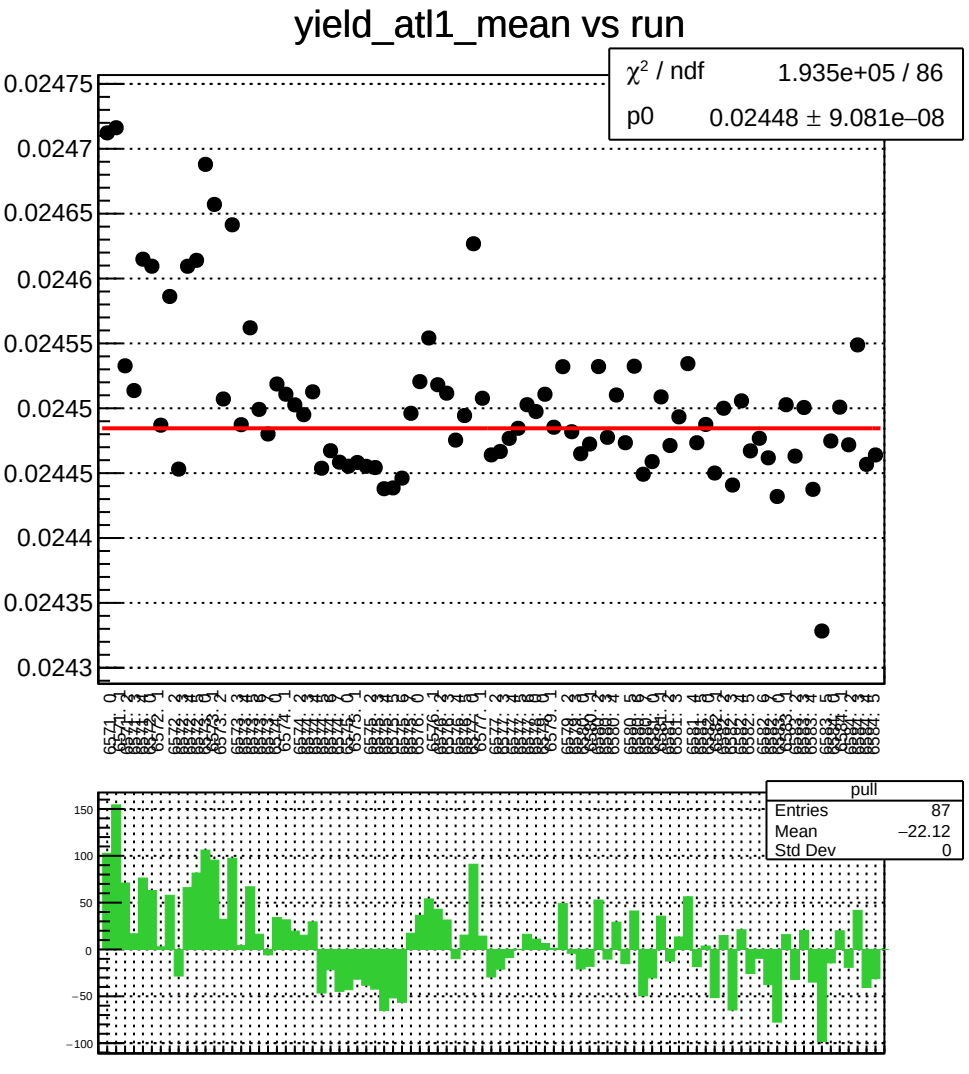

pull1D
Entries 87
Mean 2.631
Std Dev 2.224
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

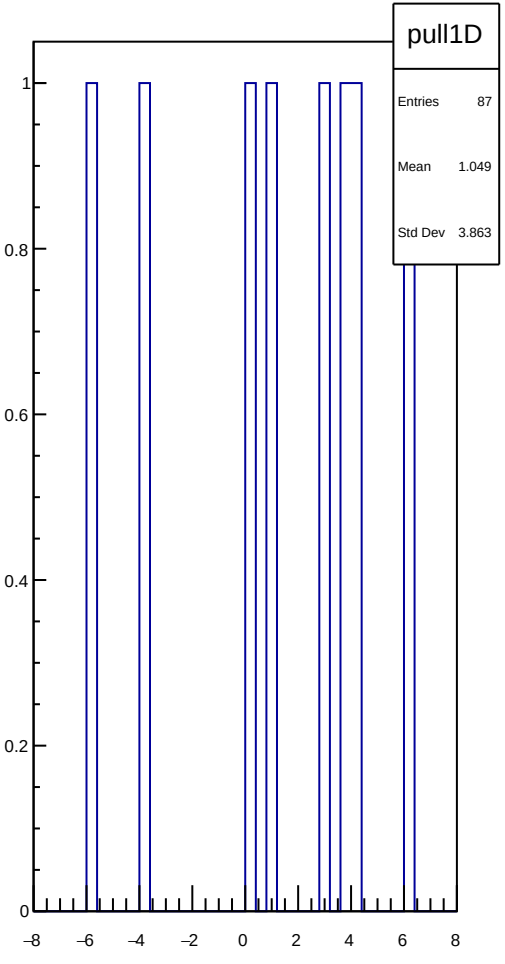

yield_dsl_rms vs run
χ² / ndf 2.143e+04 / 86
p0 0.04373 ± 3.389e−05
0.055
0.05
0.045
0.04
0.035
0.03

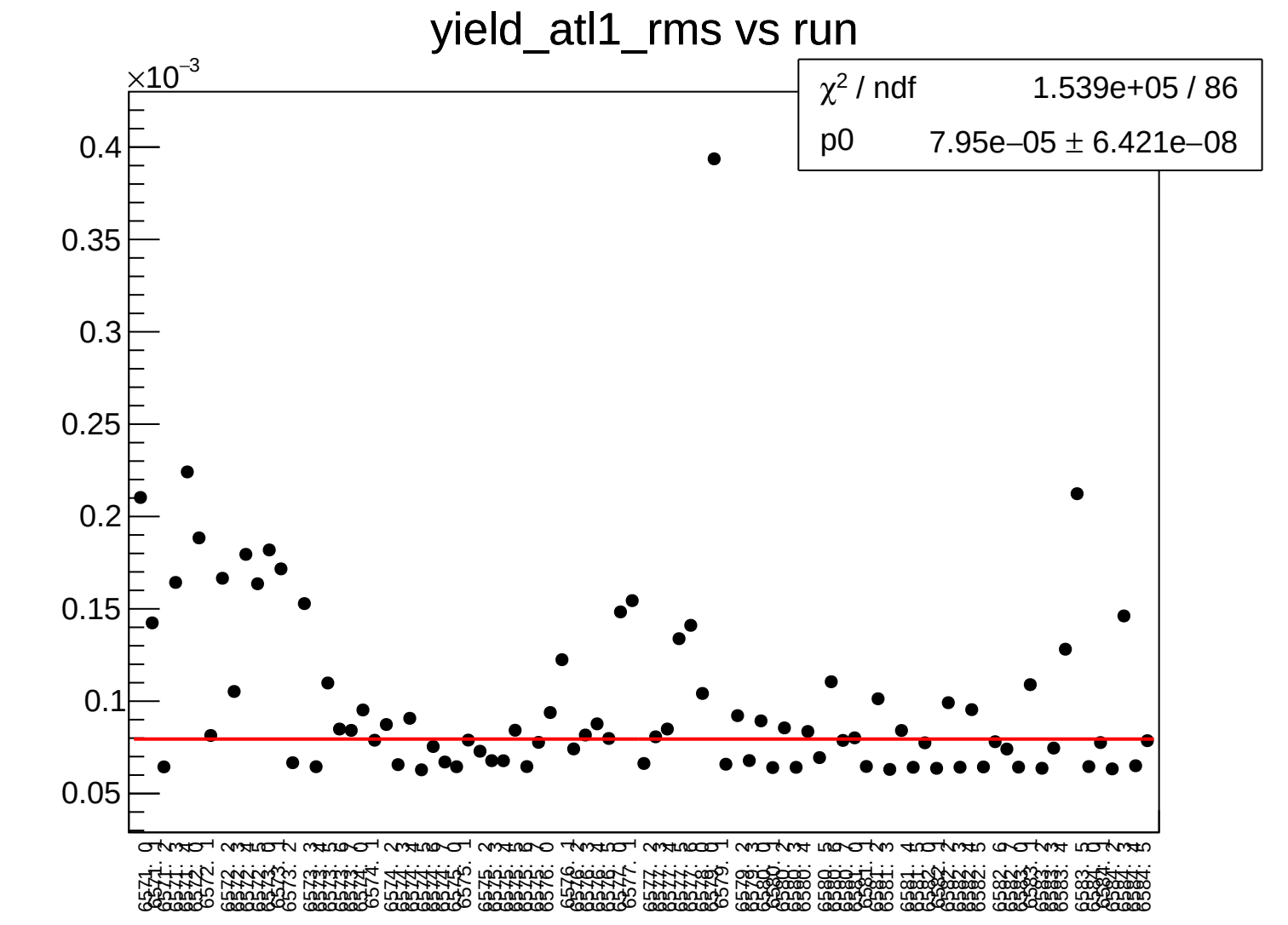

yield_dsr_mean vs run
χ² / ndf 1.185e+06 / 86
p0 −25.37 ± 6.317e−05
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
pull
Entries 87
Mean −306.5
Std Dev 0
200
100
0
−100
−200

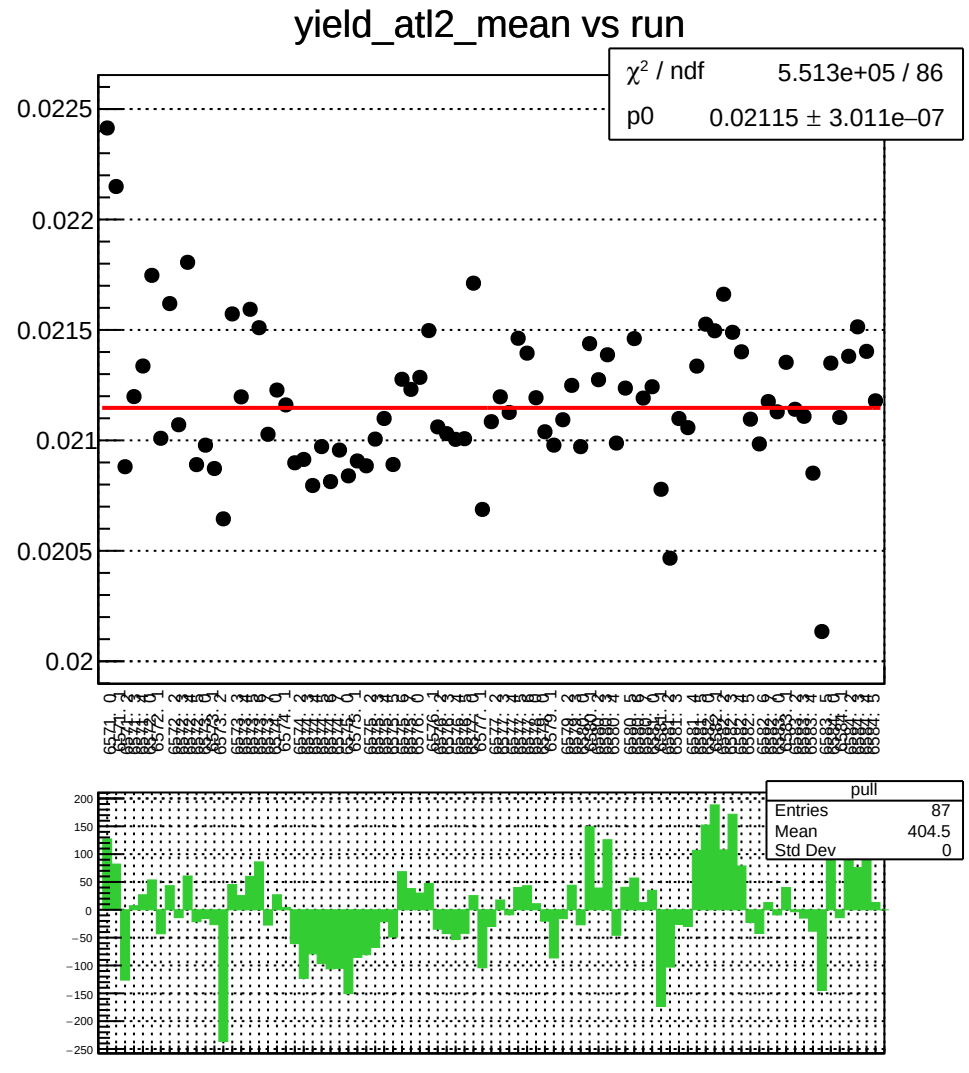

pull1D
Entries 87
Mean 0.8594
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

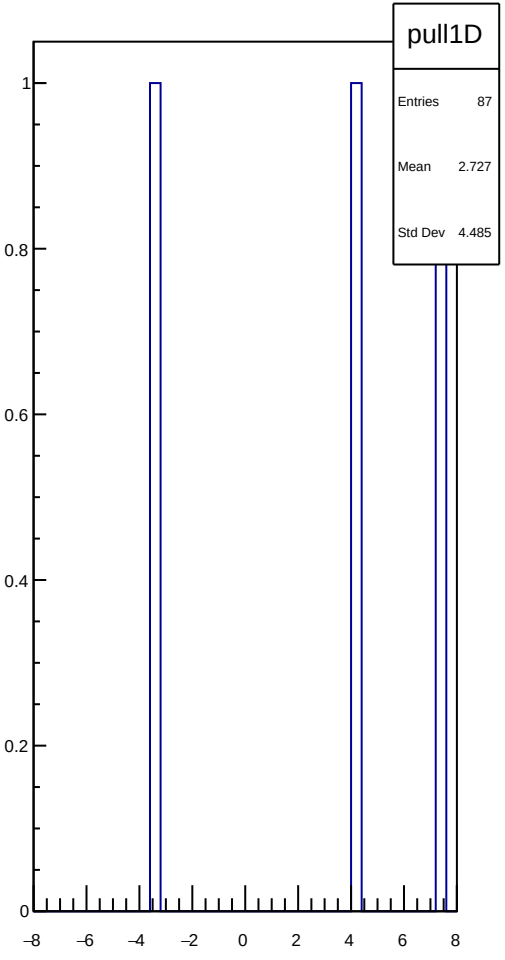

yield_dsr_rms vs run
χ² / ndf 5.143e+04 / 86
p0 0.05712 ± 4.467e–05
0.09
0.08
0.07
0.06
0.05
0.04

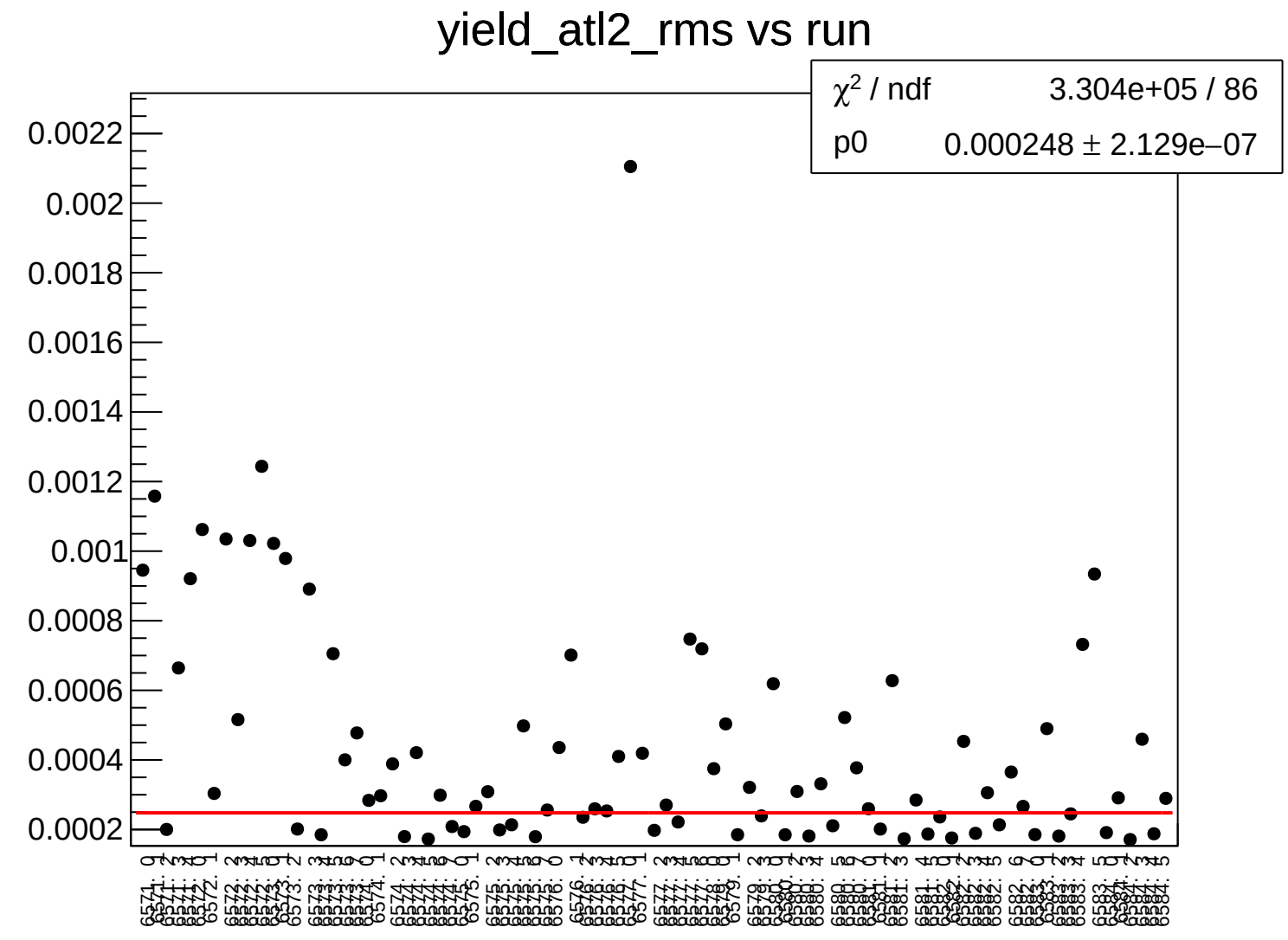

yield_atl1_mean vs run
χ² / ndf 1.935e+05 / 86
p0 0.02448 ± 9.081e−08
0.02475
0.0247
0.02465
0.0246
0.02455
0.0245
0.02445
0.0244
0.02435
0.0243
pull
Entries 87
Mean −22.12
Std Dev 0
150
100
50
0
−50
−100

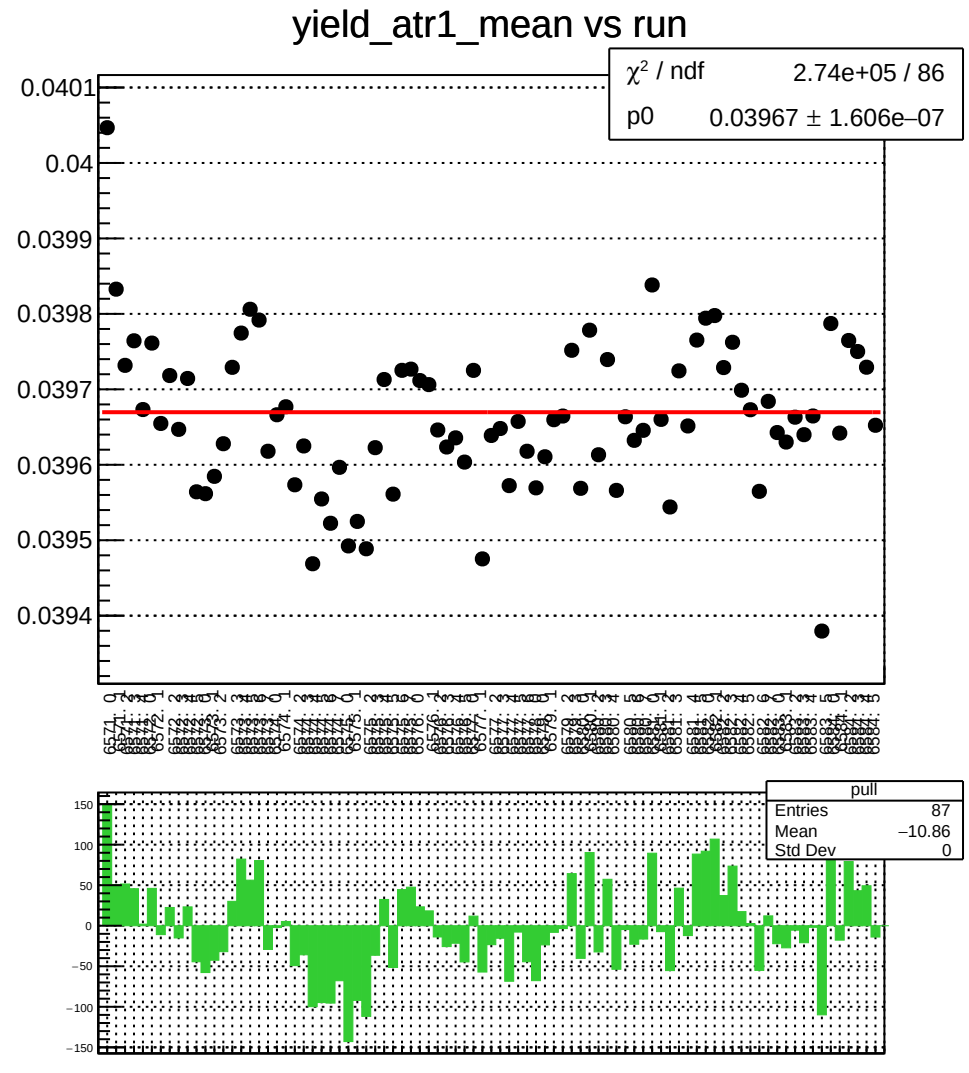

pull1D
Entries 87
Mean 1.049
Std Dev 3.863
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

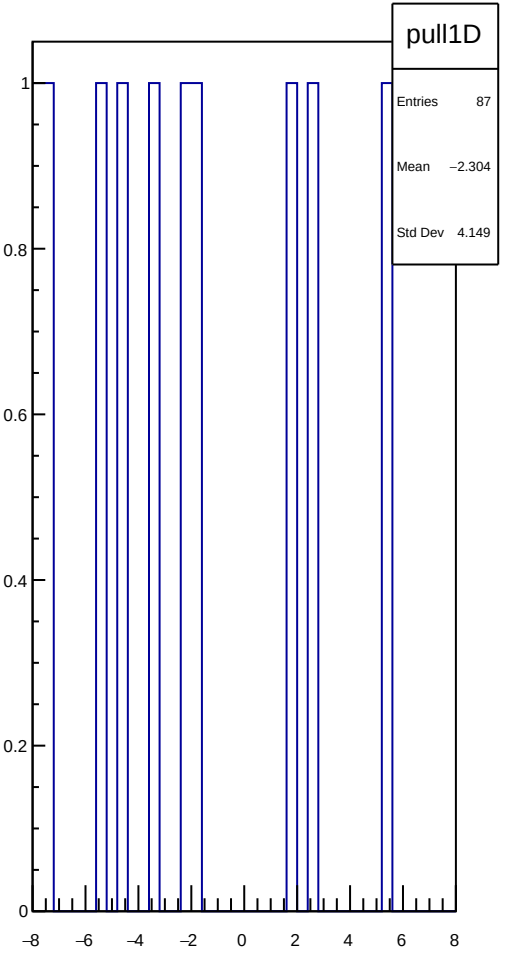

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.539e+05 / 86
p0 7.95e−05 ± 6.421e−08
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

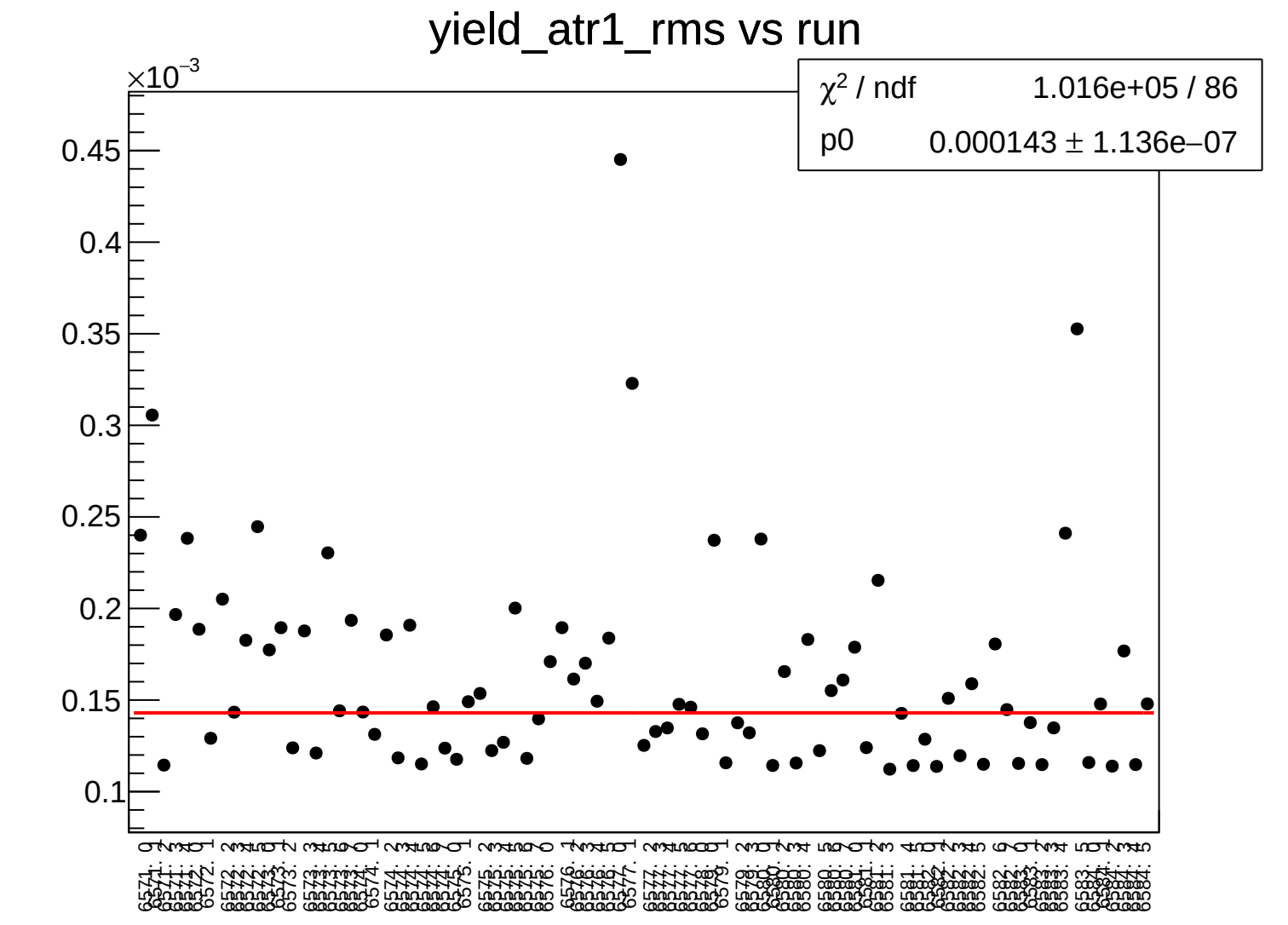

yield_atl2_mean vs run
χ² / ndf 5.513e+05 / 86
p0 0.02115 ± 3.011e−07
0.0225
0.022
0.0215
0.021
0.0205
0.02
pull
Entries 87
Mean 404.5
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

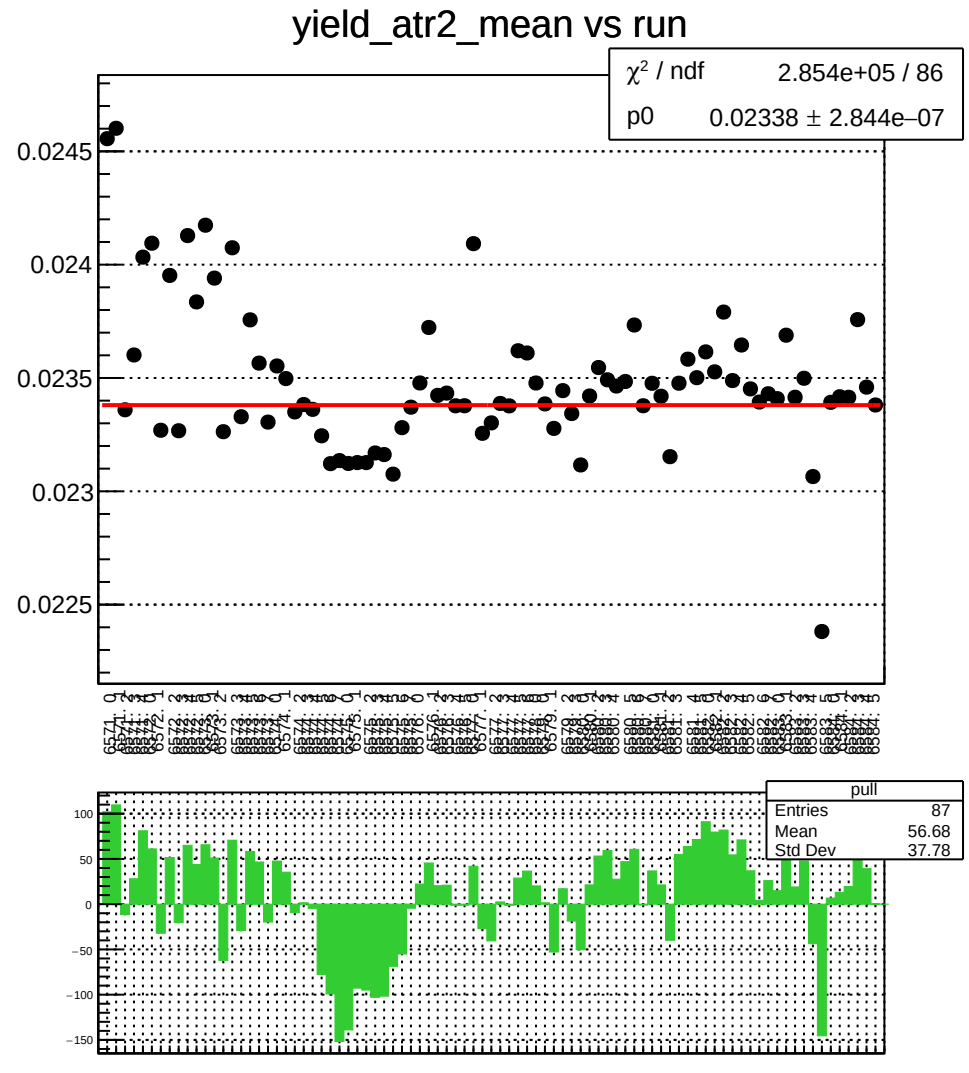

pull1D
Entries 87
Mean 2.727
Std Dev 4.485
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

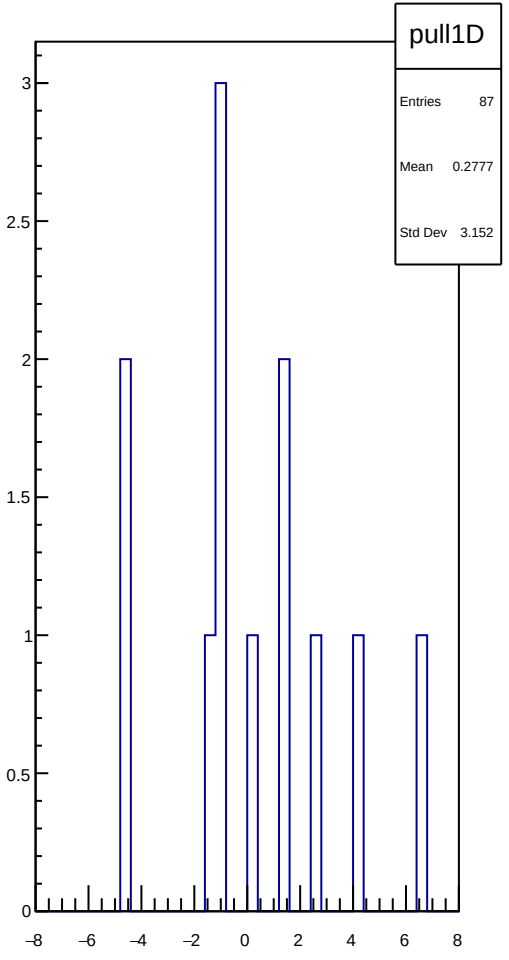

yield_atl2_rms vs run
χ² / ndf 3.304e+05 / 86
p0 0.000248 ± 2.129e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

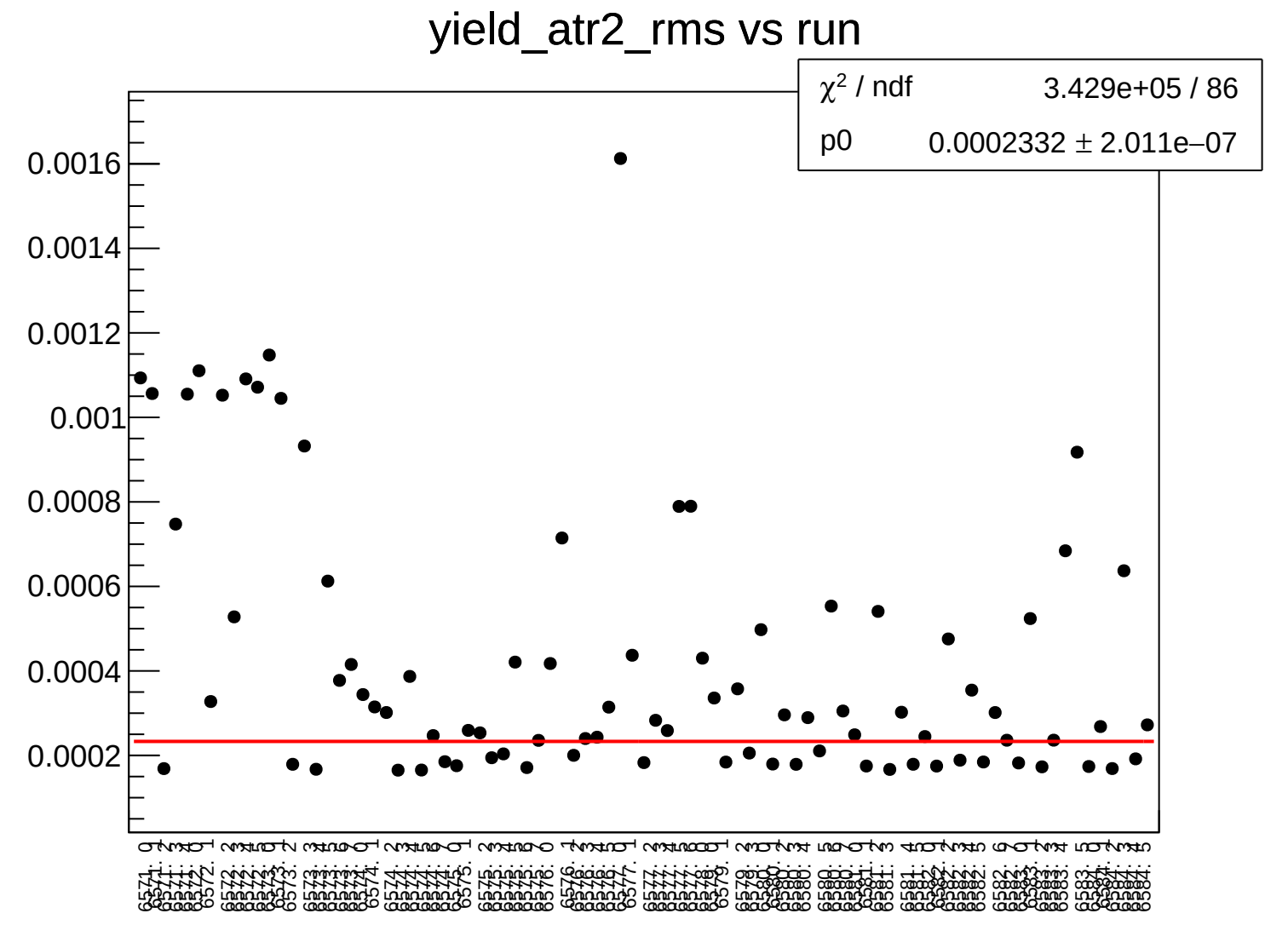

yield_atr1_mean vs run
χ² / ndf 2.74e+05 / 86
p0 0.03967 ± 1.606e−07
0.0401
0.04
0.0399
0.0398
0.0397
0.0396
0.0395
0.0394
pull
Entries 87
Mean −10.86
Std Dev 0
150
100
50
0
−50
−100
−150

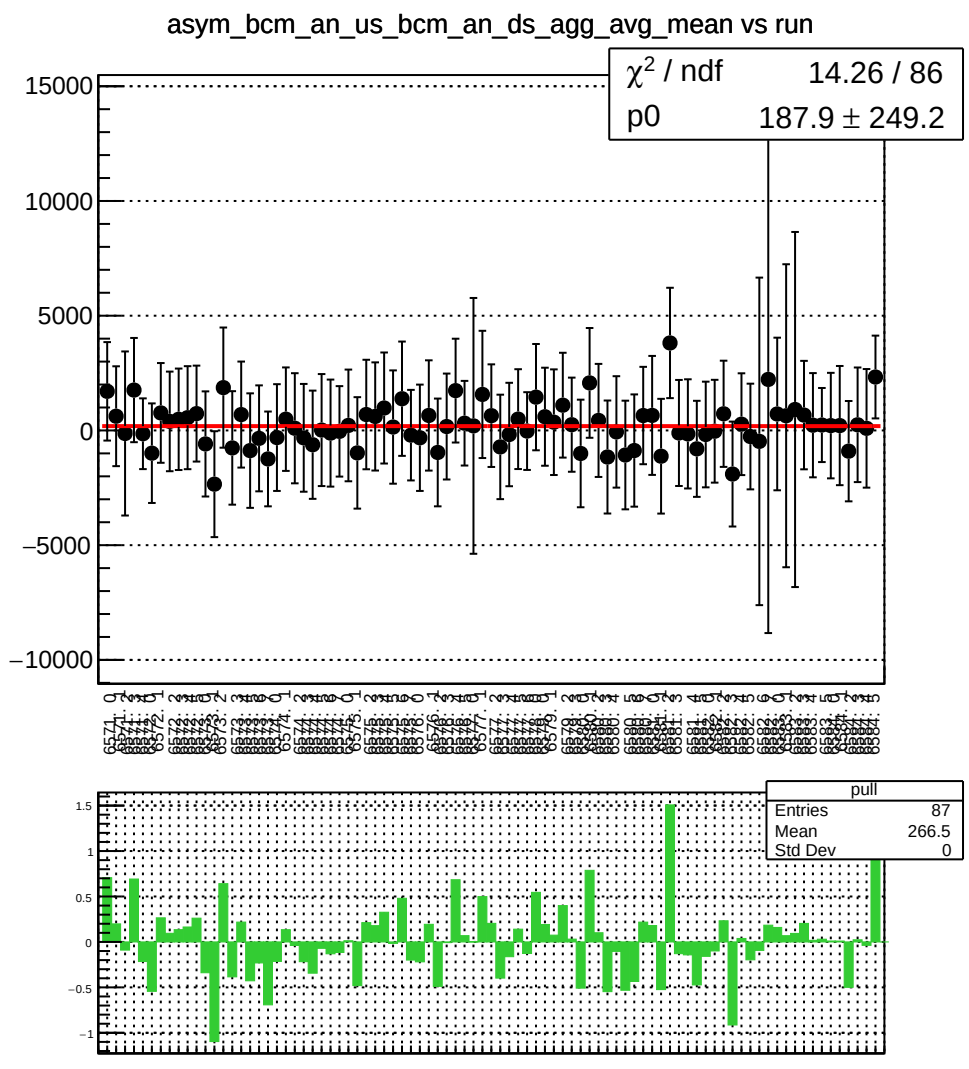

pull1D
Entries 87
Mean −2.304
Std Dev 4.149
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

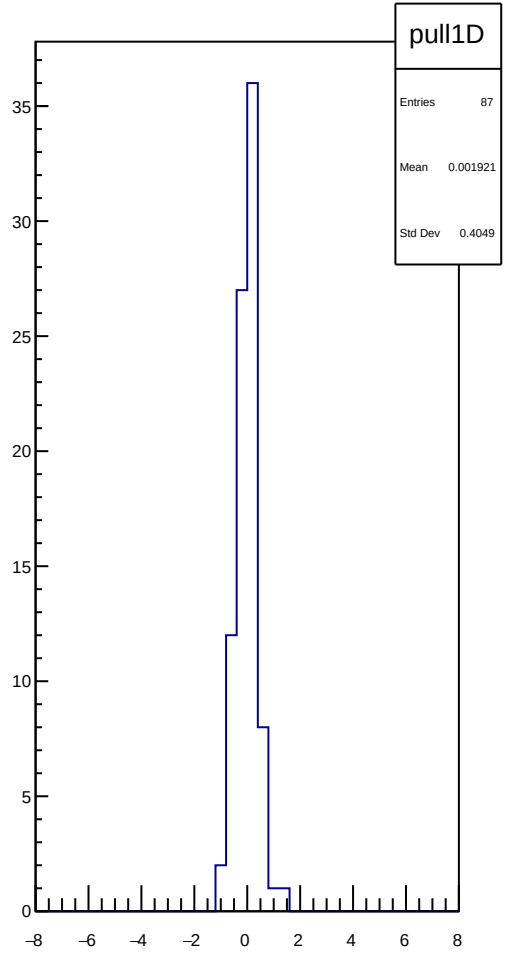

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.016e+05 / 86
p0 0.000143 ± 1.136e−07
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

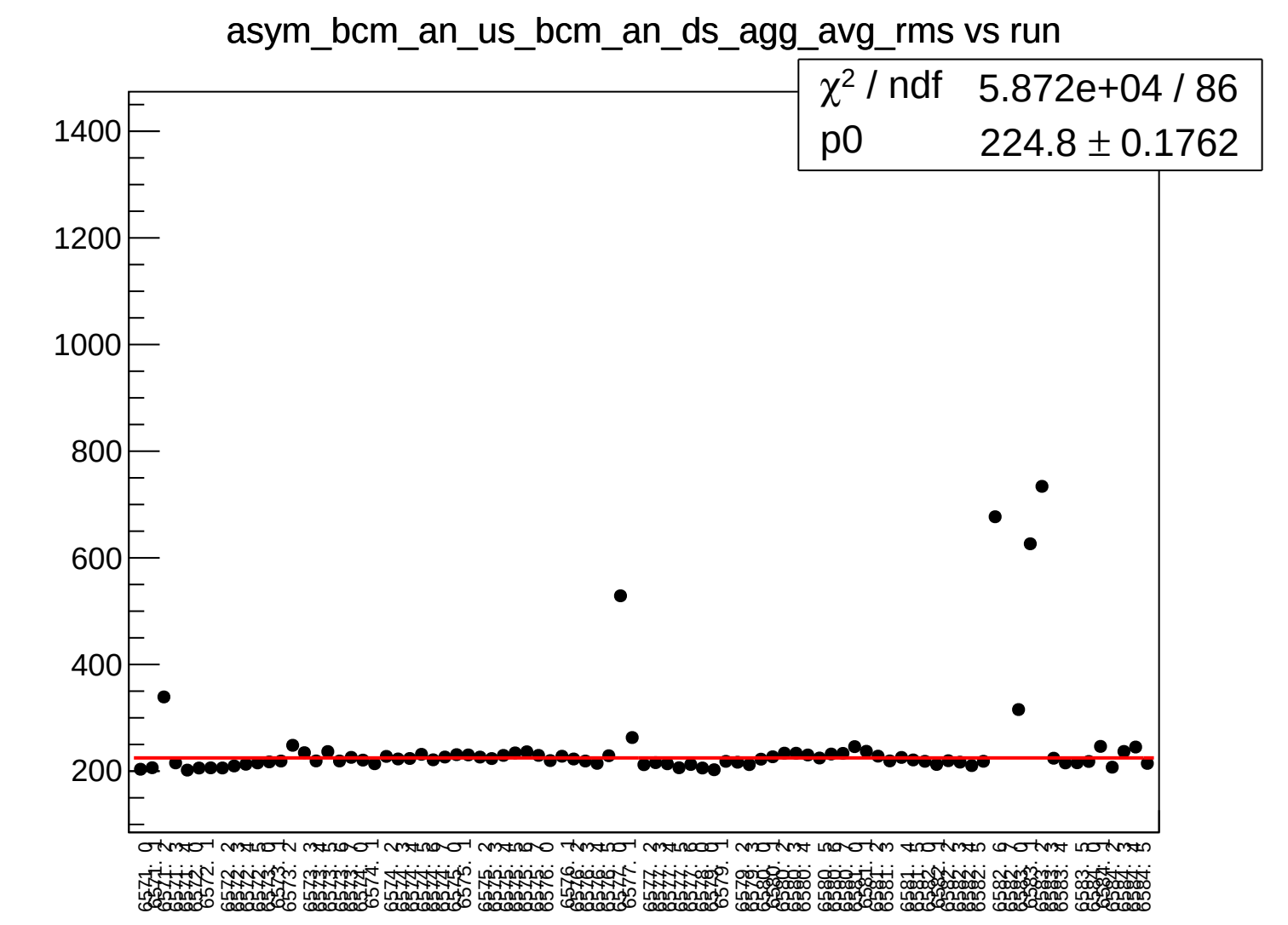

yield_atr2_mean vs run
χ² / ndf 2.854e+05 / 86
p0 0.02338 ± 2.844e−07
0.0245
0.024
0.0235
0.023
0.0225
pull
Entries 87
Mean 56.68
Std Dev 37.78
100
50
0
−50
−100
−150

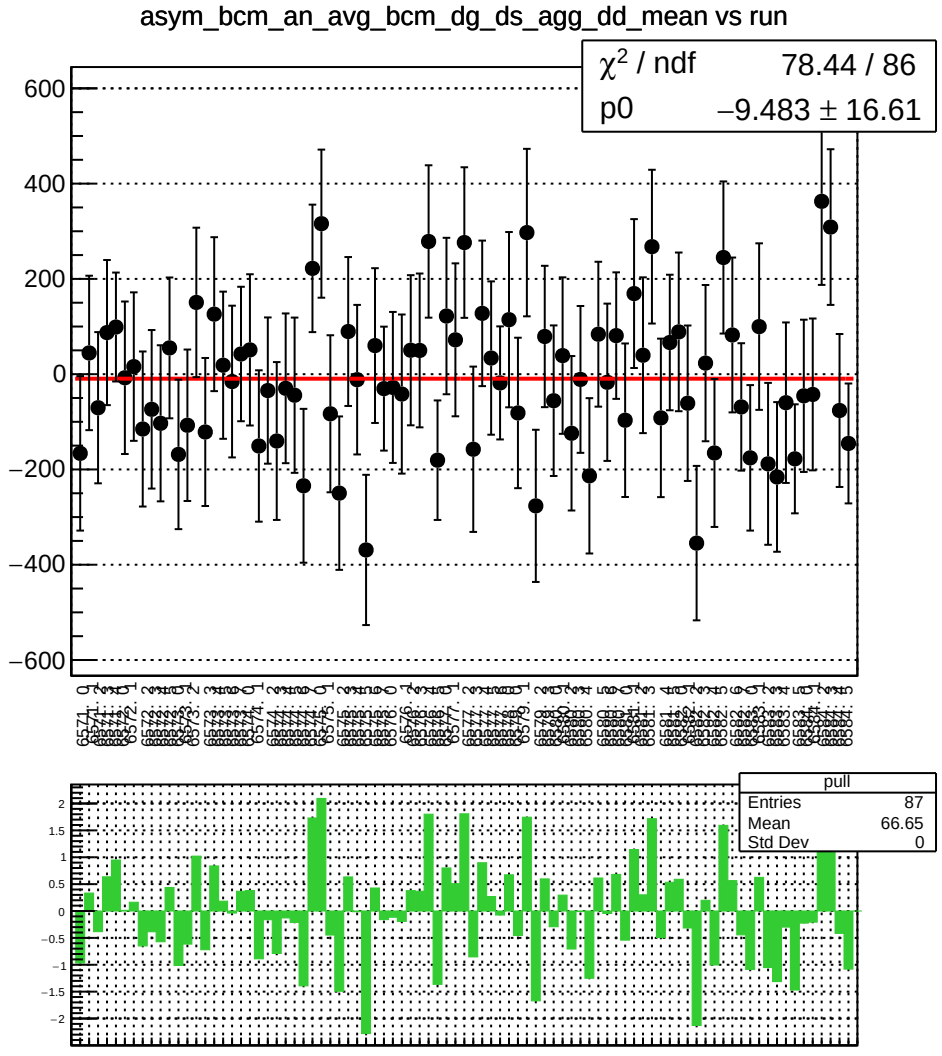

pull1D
Entries 87
Mean 0.2777
Std Dev 3.152
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

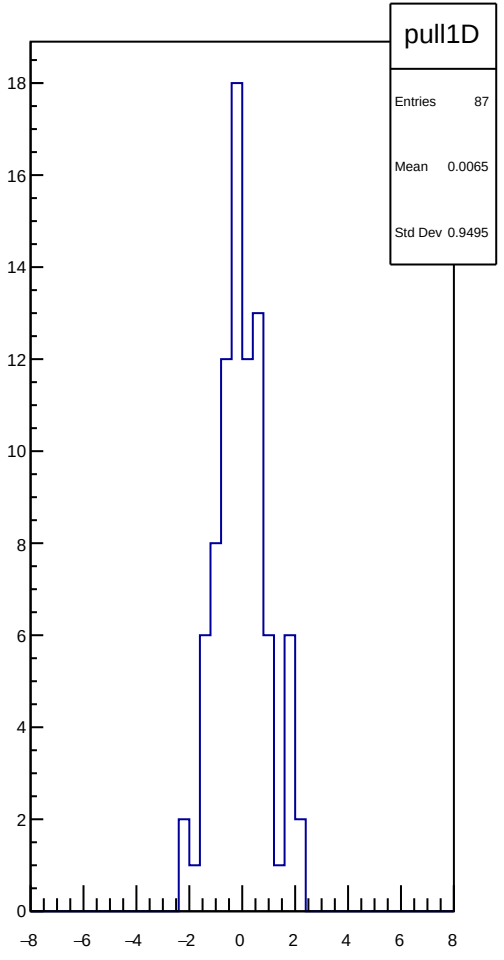

yield_atr2_rms vs run
χ² / ndf 3.429e+05 / 86
p0 0.0002332 ± 2.011e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

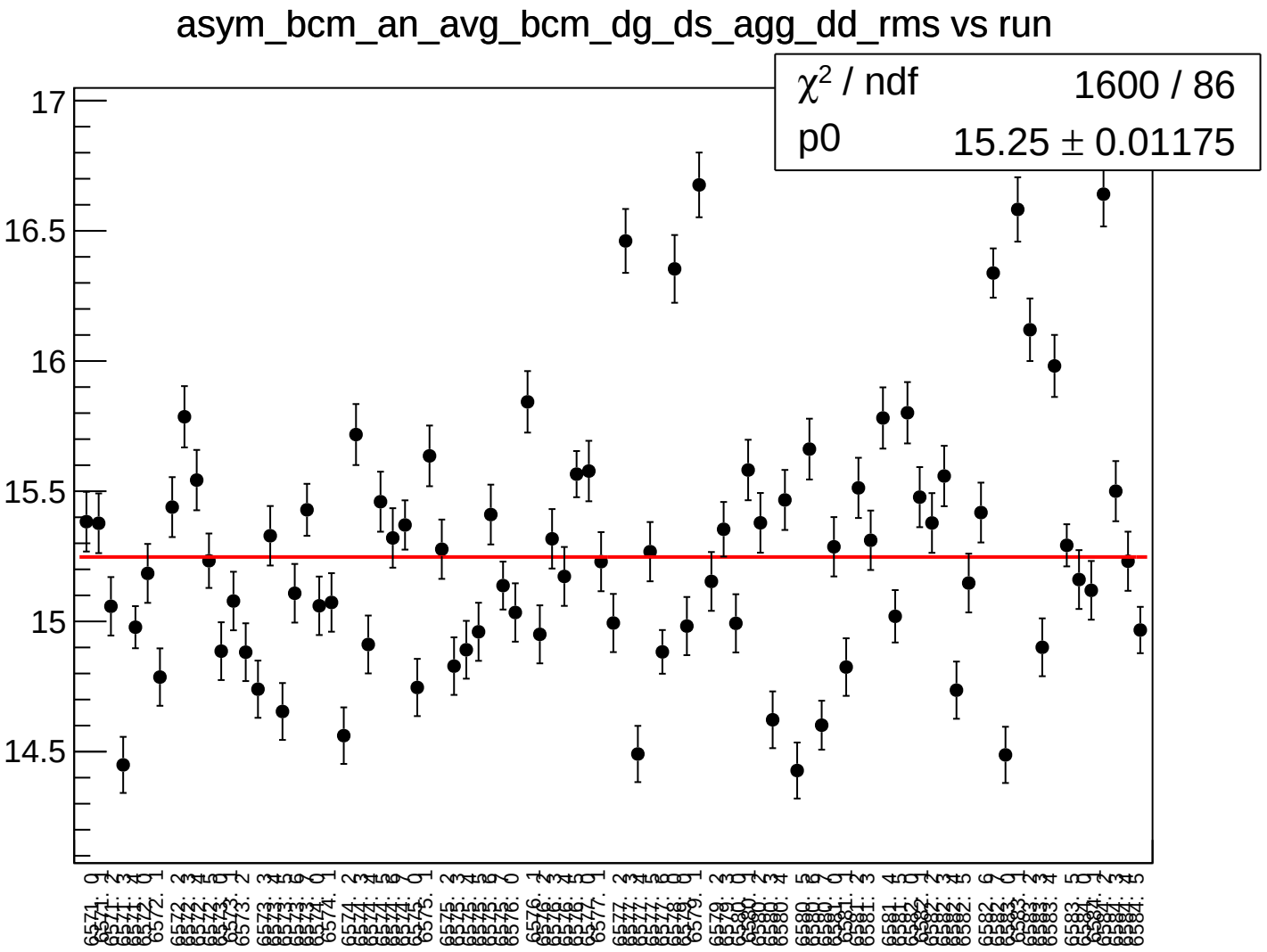

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.26 / 86
p0 187.9 ± 249.2
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 266.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

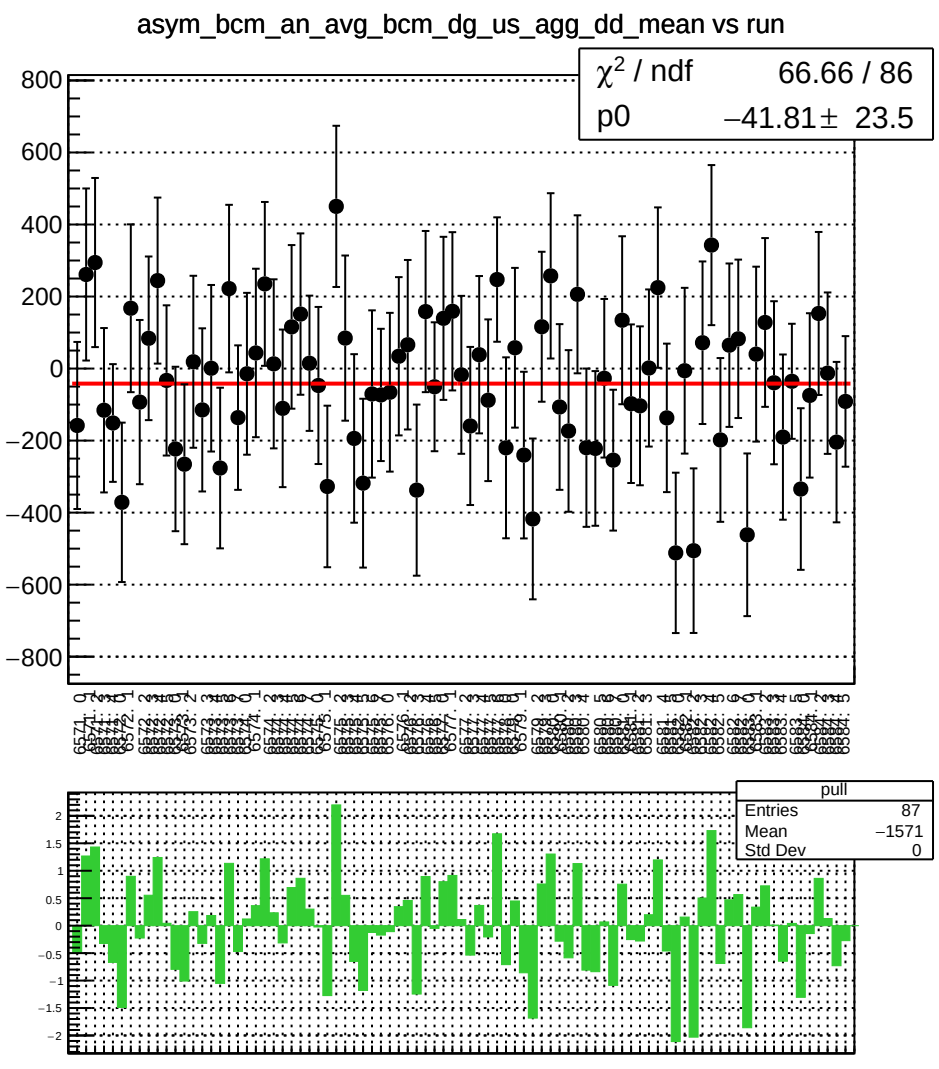

pull1D
Entries 87
Mean 0.001921
Std Dev 0.4049
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

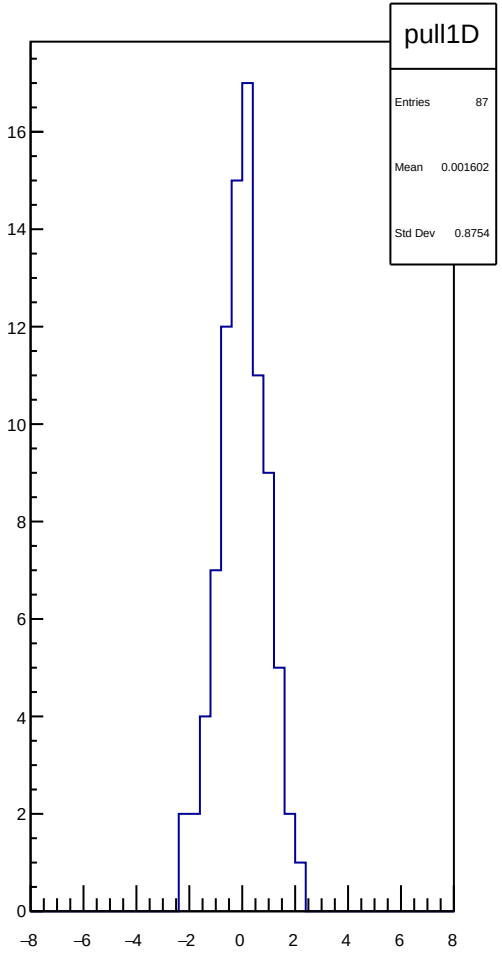

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5.872e+04 / 86
p0 224.8 ± 0.1762
1400
1200
1000
800
600
400
200

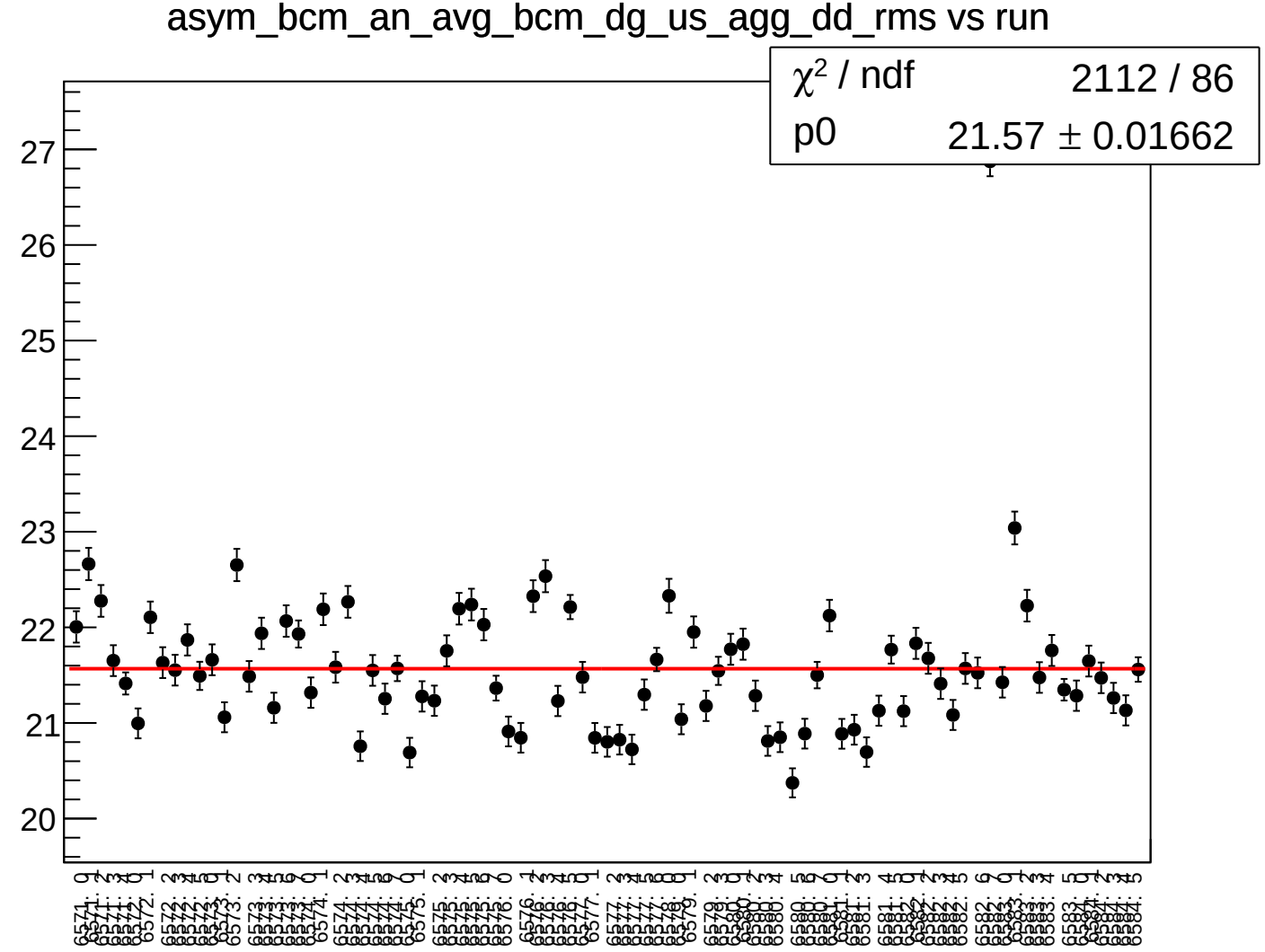

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 78.44 / 86
p0 −9.483 ± 16.61
pull
Entries 87
Mean 66.65
Std Dev 0

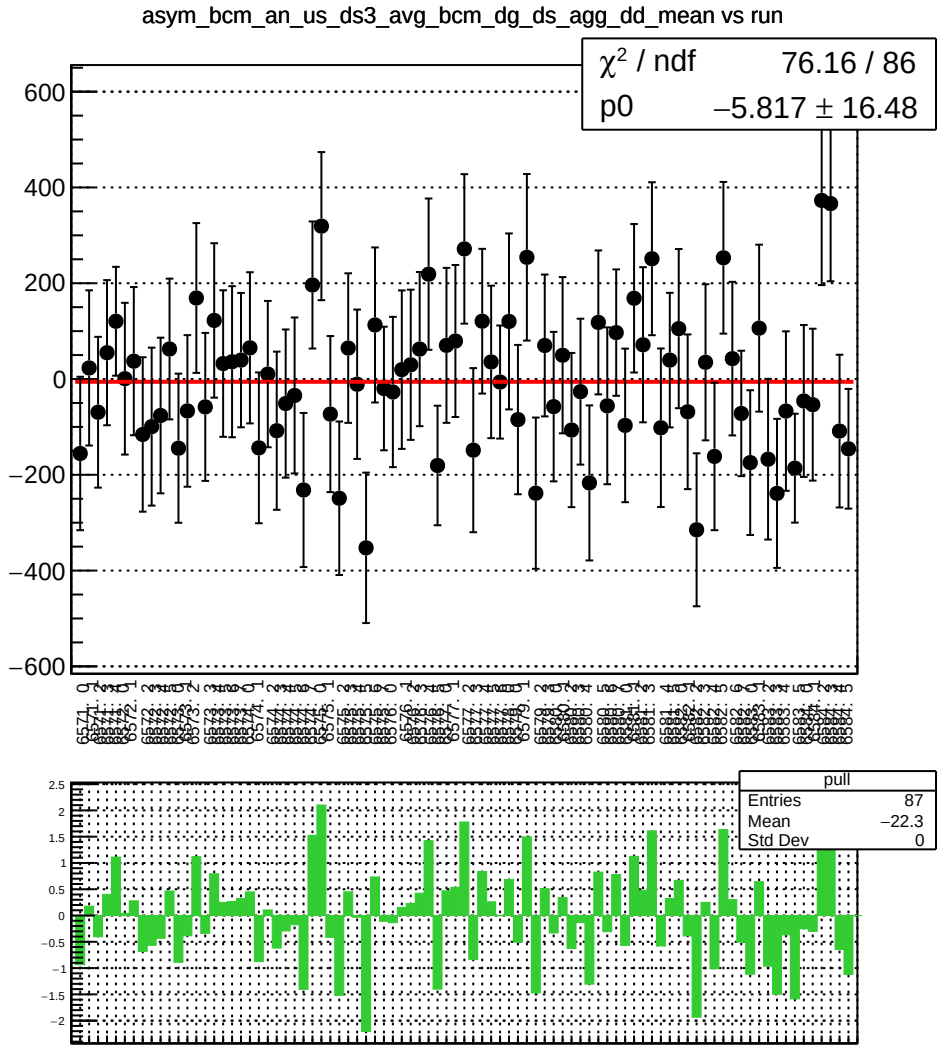

pull1D
Entries 87
Mean 0.0065
Std Dev 0.9495

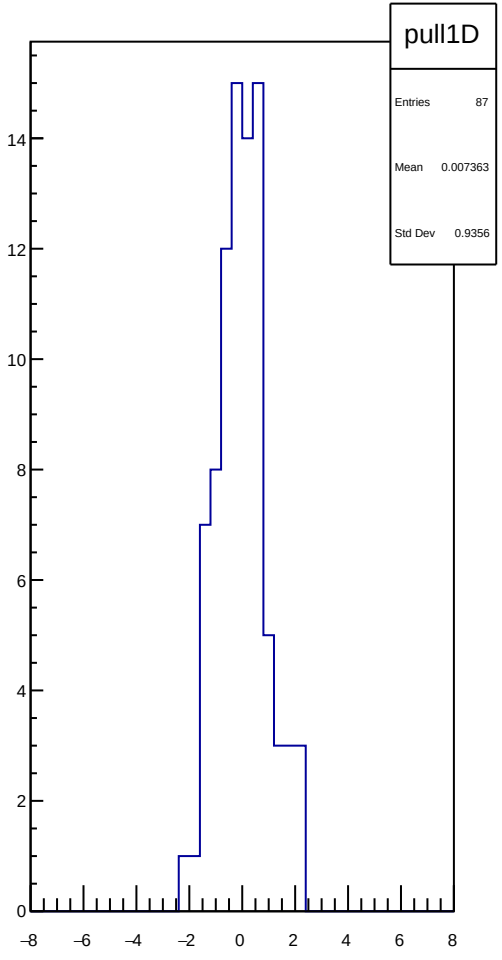

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1600 / 86
p0 15.25 ± 0.01175
17
16.5
16
15.5
15
14.5

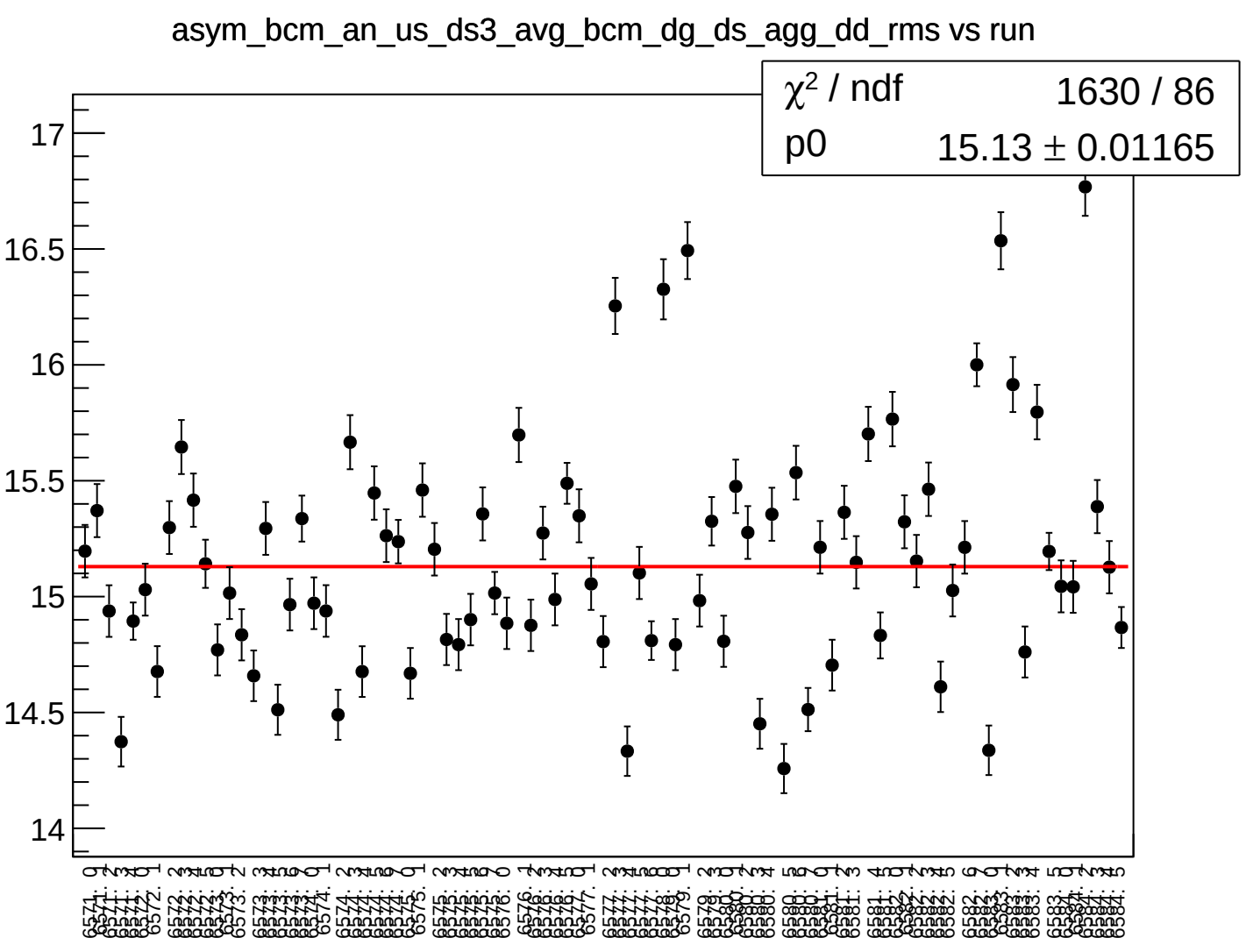

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 66.66 / 86
p0 −41.81± 23.5
pull
Entries 87
Mean −1571
Std Dev 0

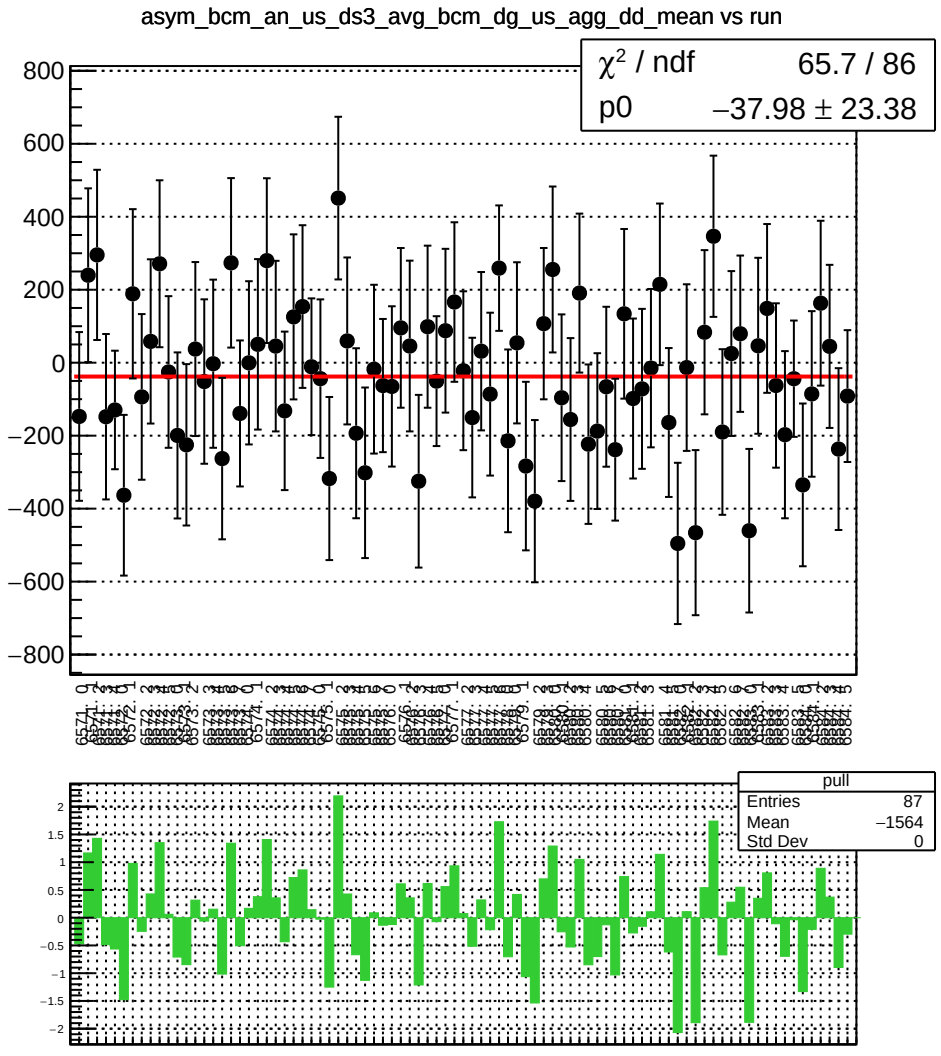

pull1D
Entries 87
Mean 0.001602
Std Dev 0.8754

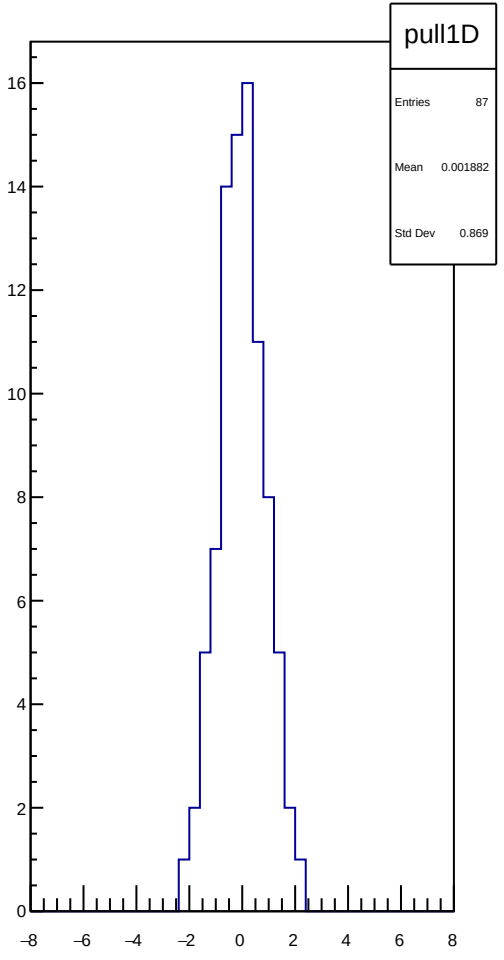

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2112 / 86
p0 21.57 ± 0.01662
27
26
25
24
23
22
21
20

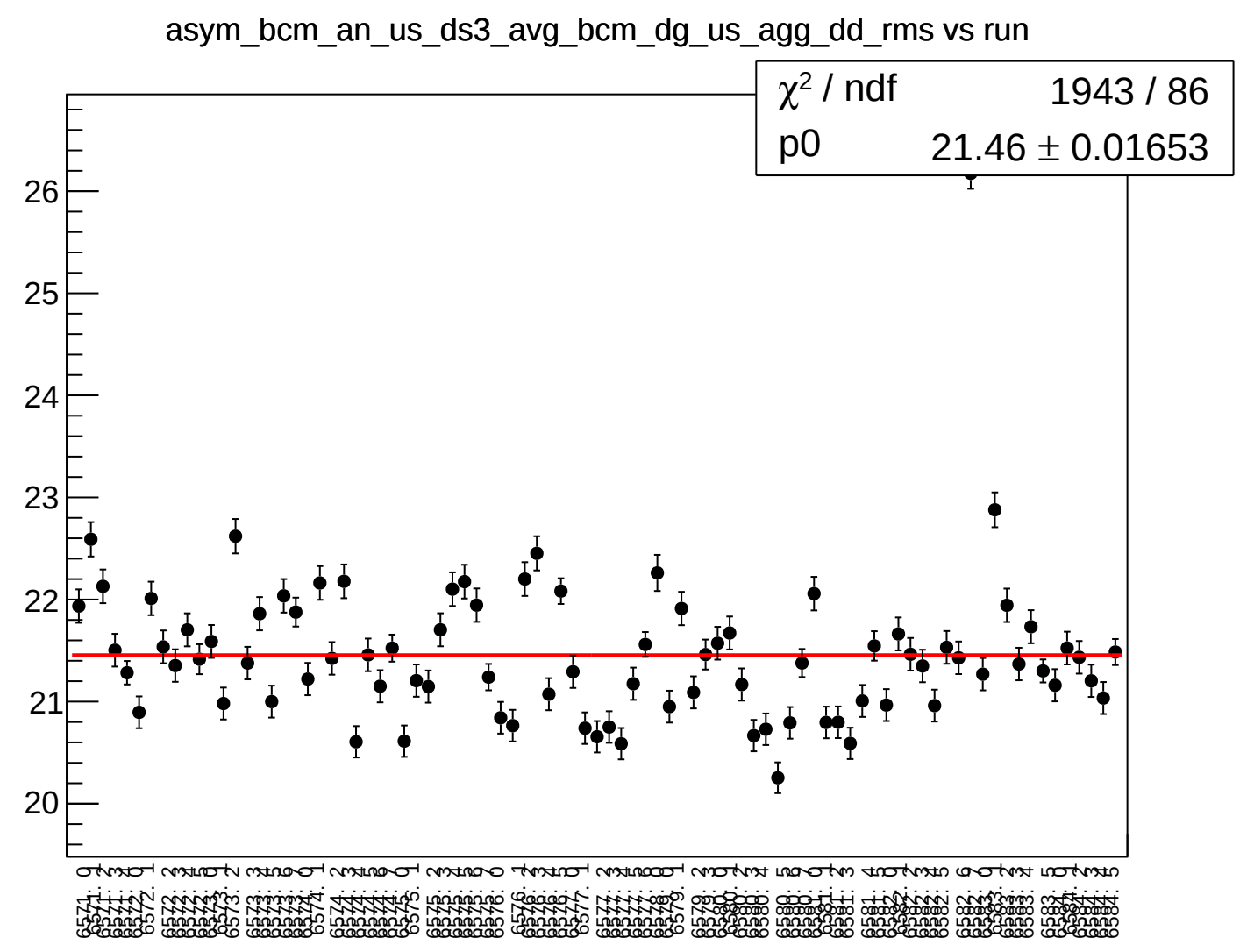

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.16 / 86
p0 −5.817 ± 16.48
pull
Entries 87
Mean −22.3
Std Dev 0

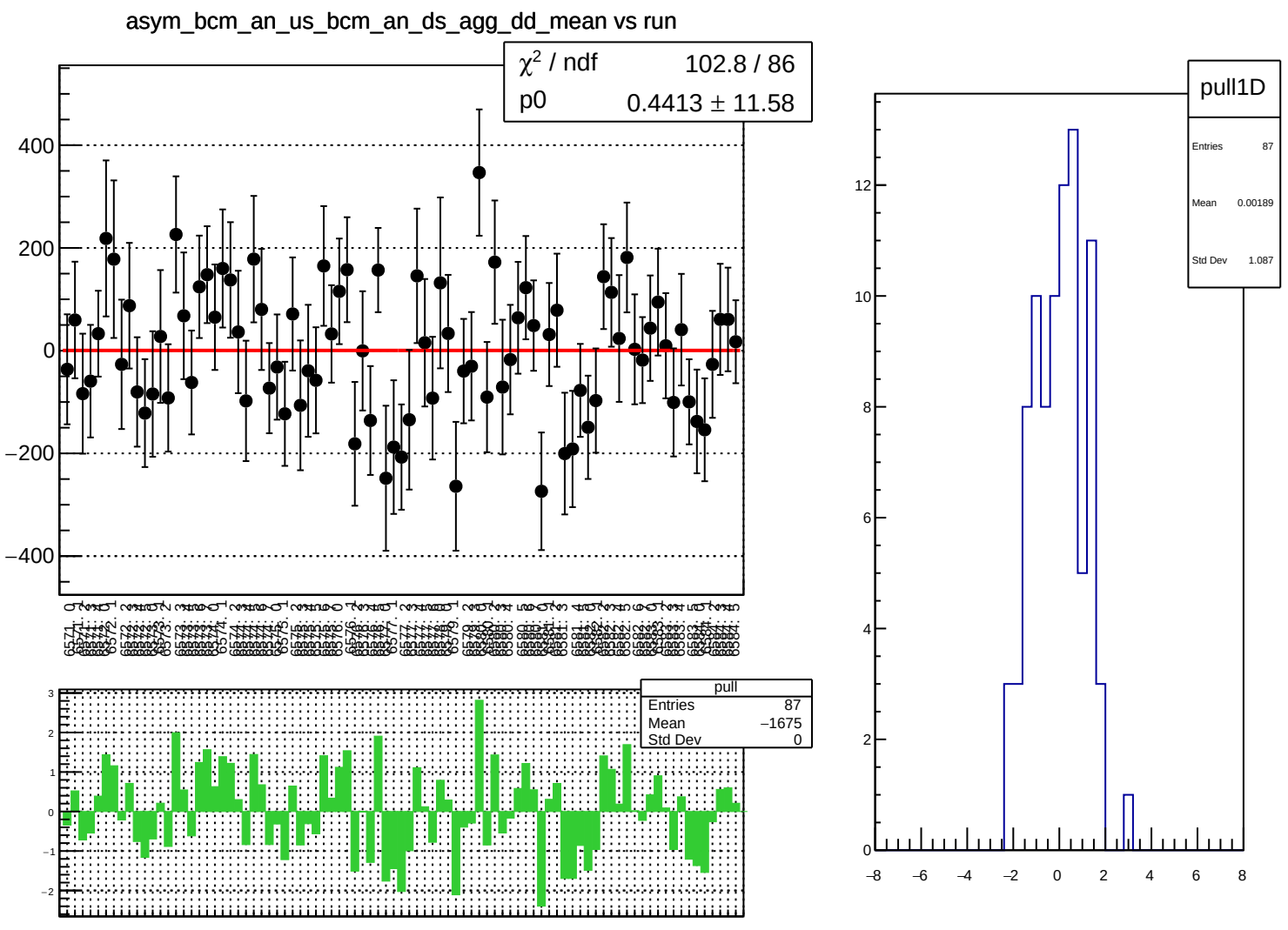

pull1D
Entries 87
Mean 0.007363
Std Dev 0.9356

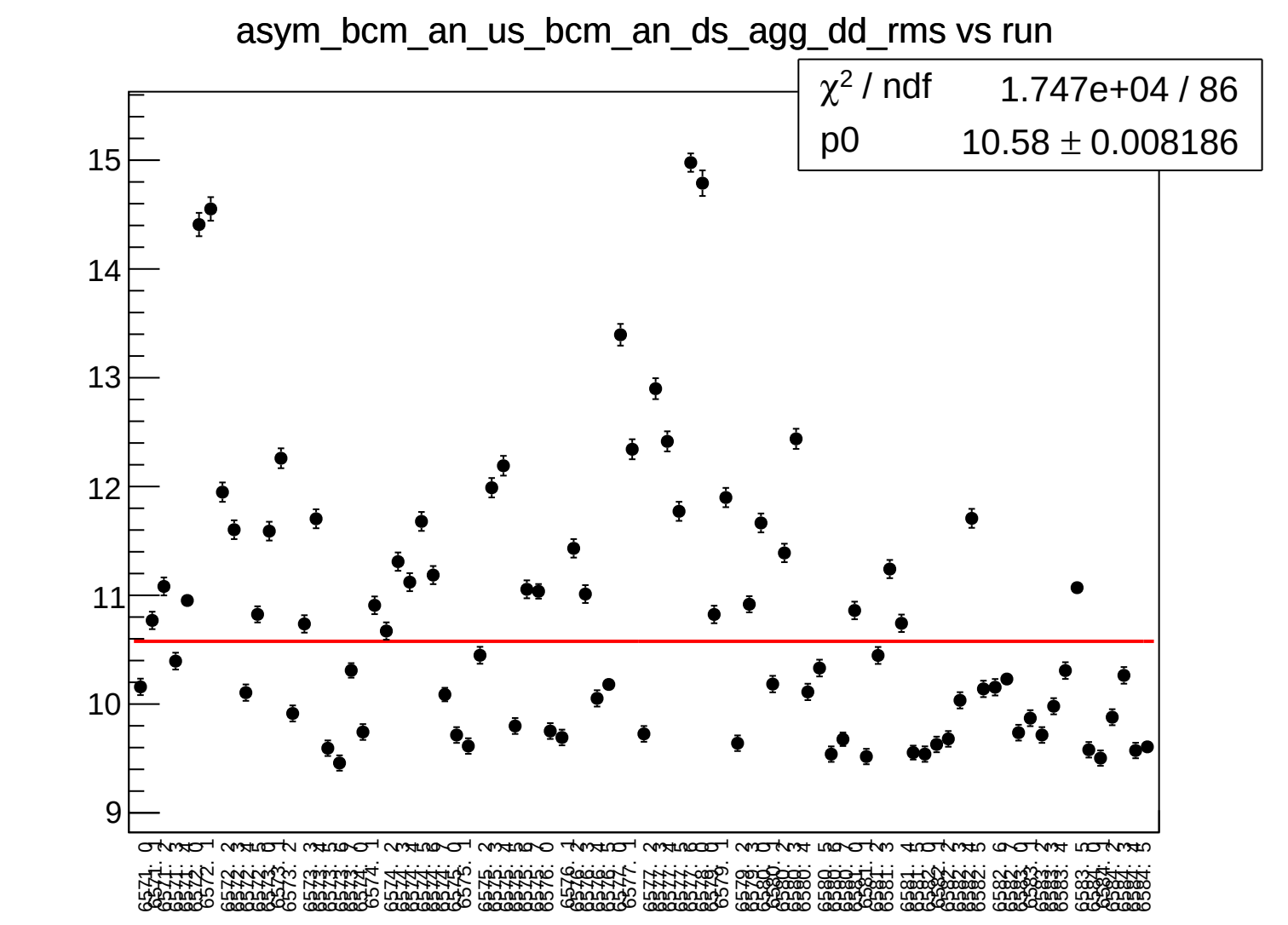

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1630 / 86
p0 15.13 ± 0.01165
17
16.5
16
15.5
15
14.5
14

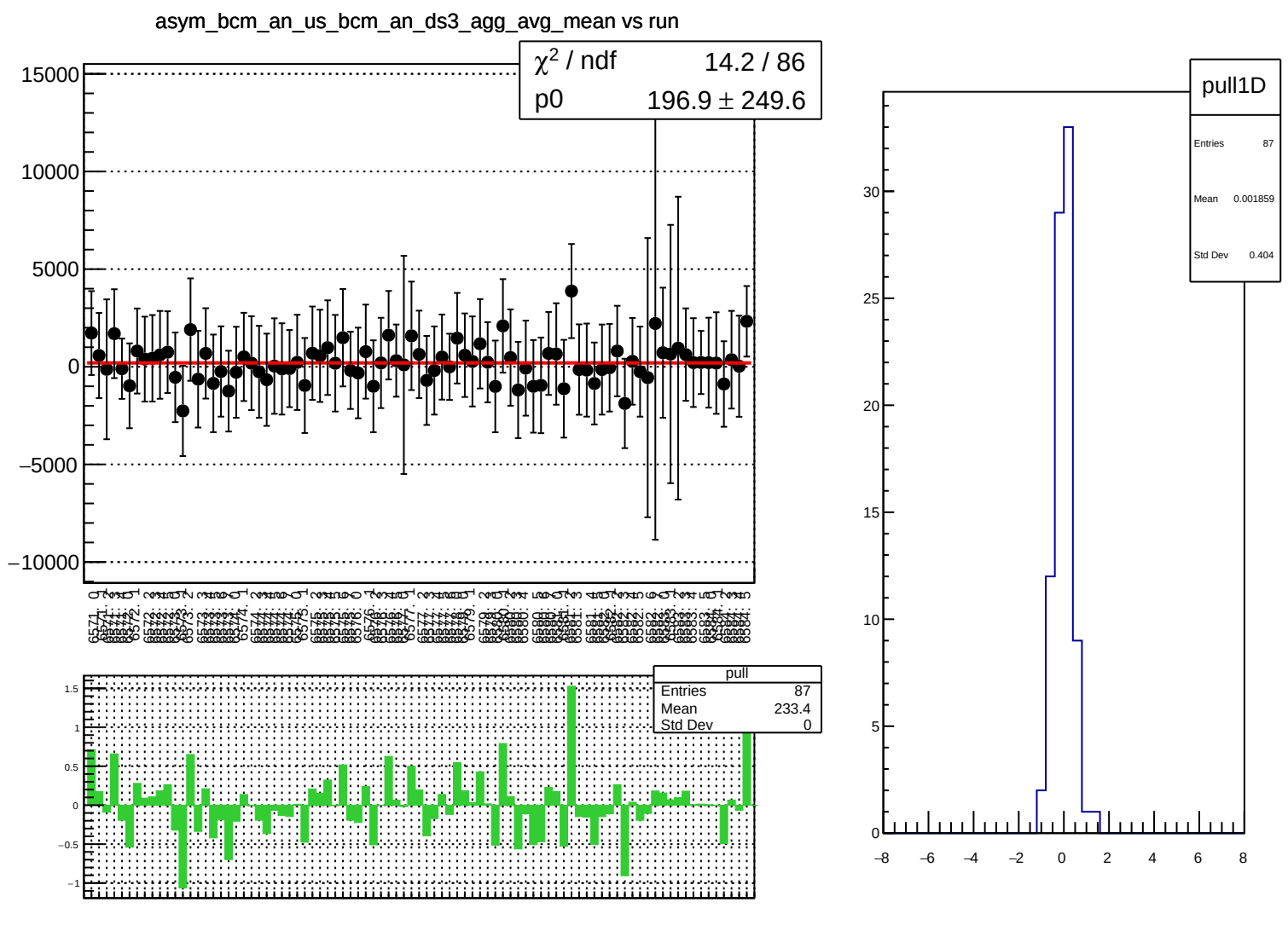

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 65.7 / 86
p0 −37.98 ± 23.38
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1564
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

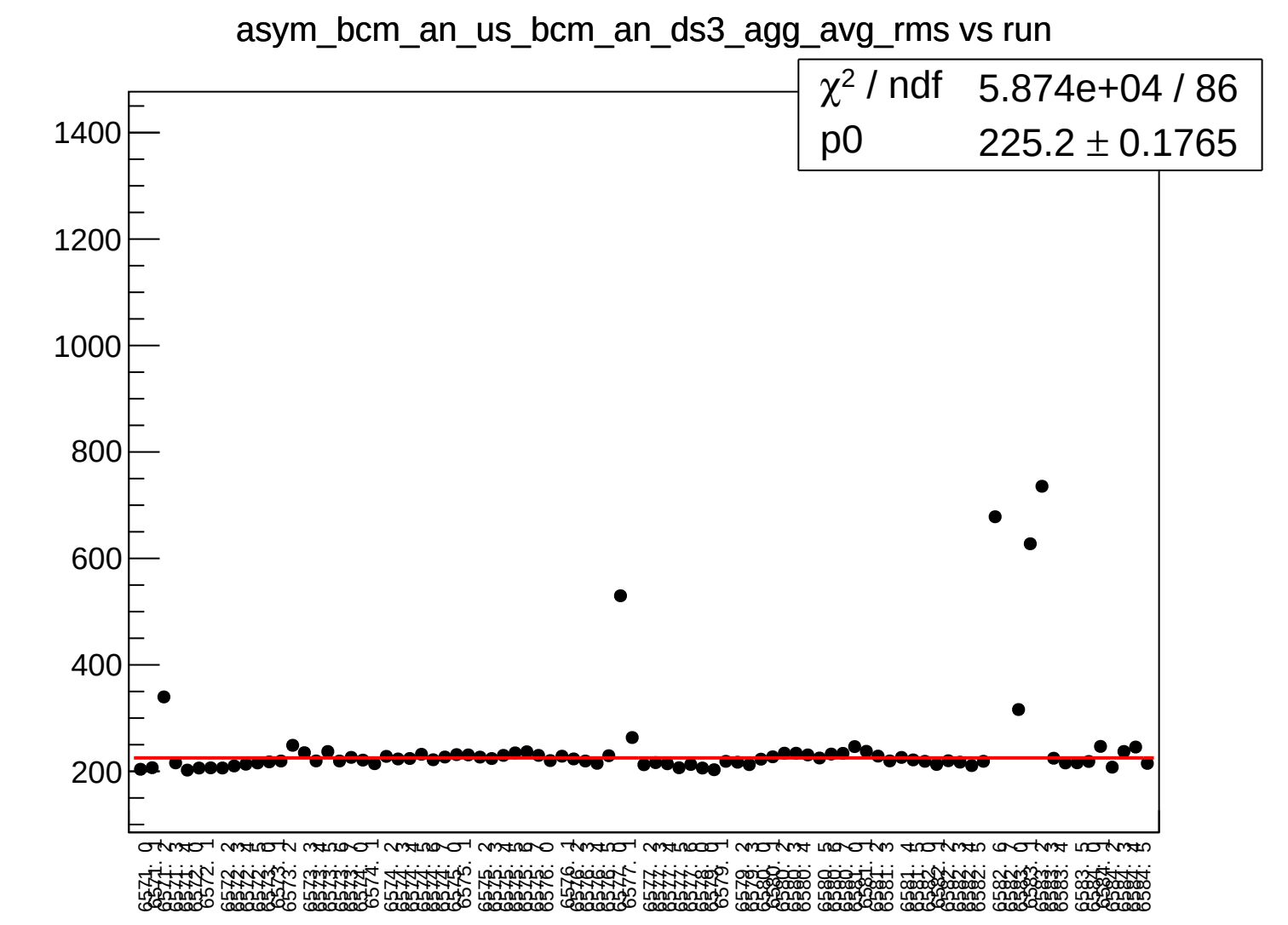

pull1D
Entries 87
Mean 0.001882
Std Dev 0.869
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

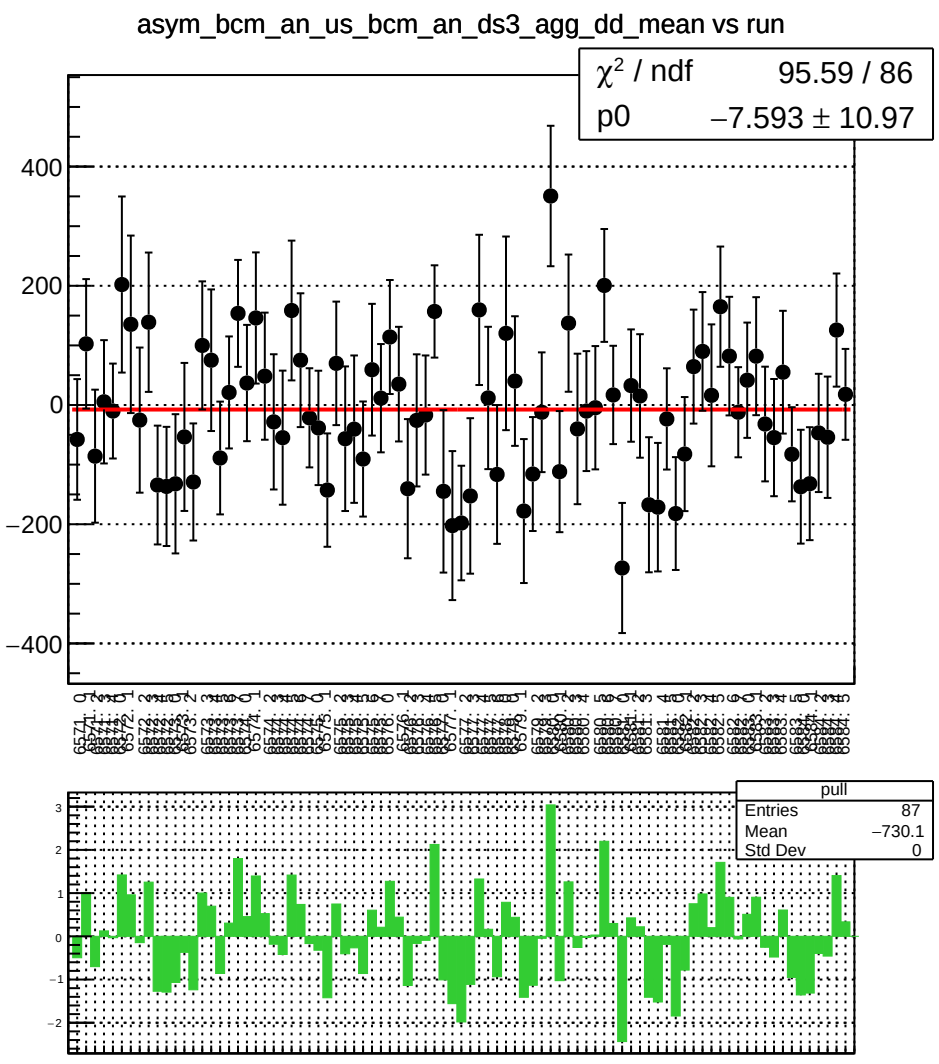

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1943 / 86
p0 21.46 ± 0.01653
26
25
24
23
22
21
20

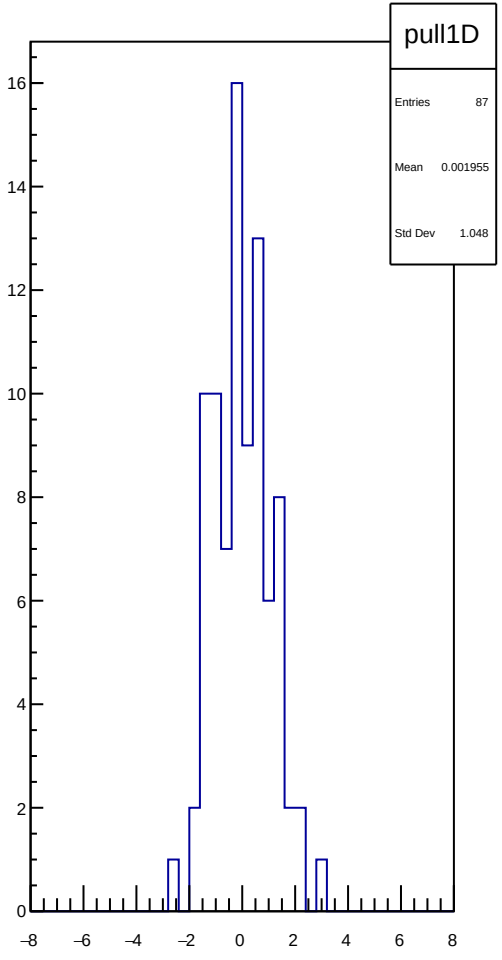

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 102.8 / 86
p0 0.4413 ± 11.58
400
200
0
−200
−400
pull
Entries 87
Mean −1675
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.00189
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

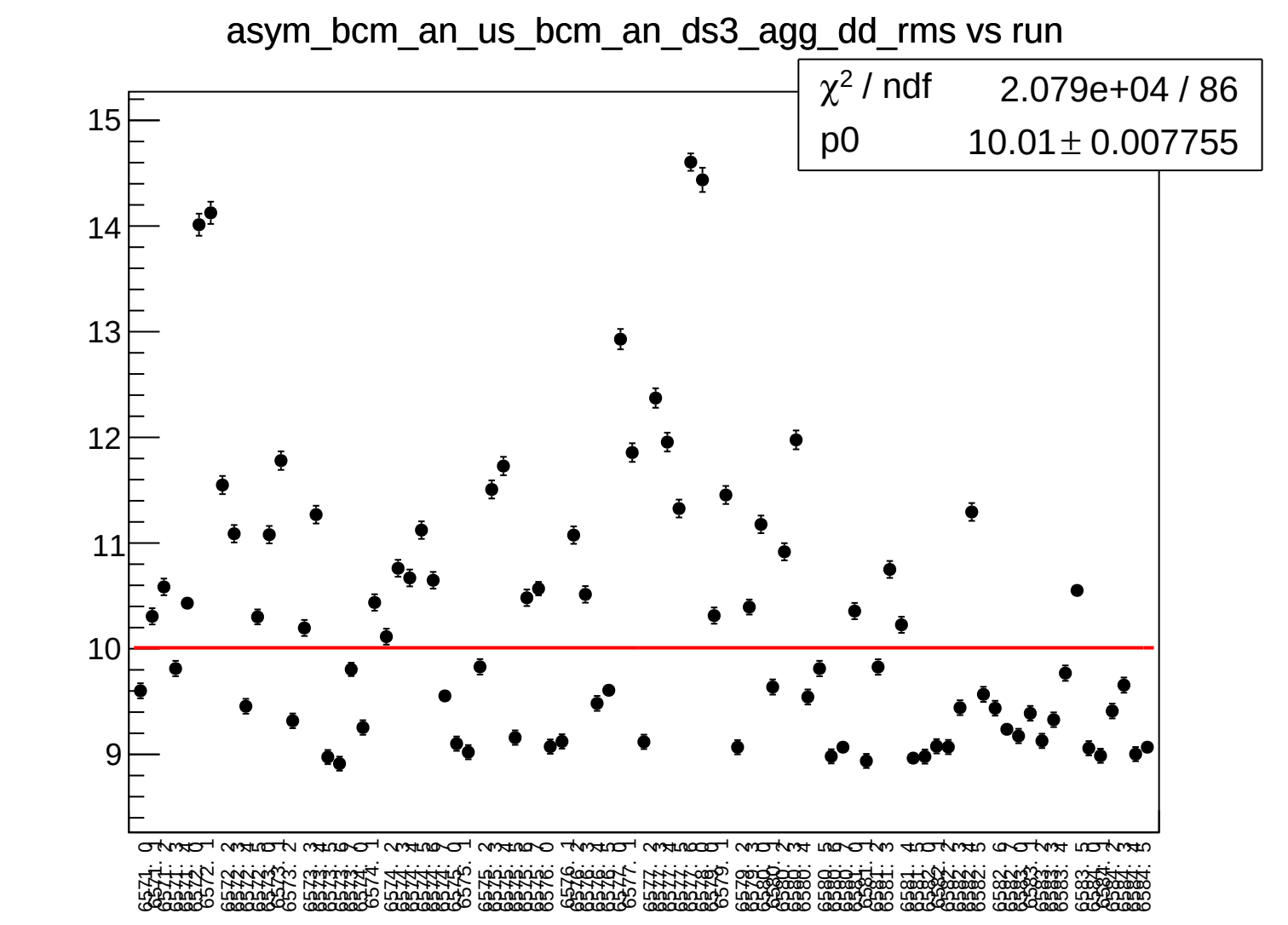

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.747e+04 / 86
p0 10.58 ± 0.008186
15
14
13
12
11
10
9

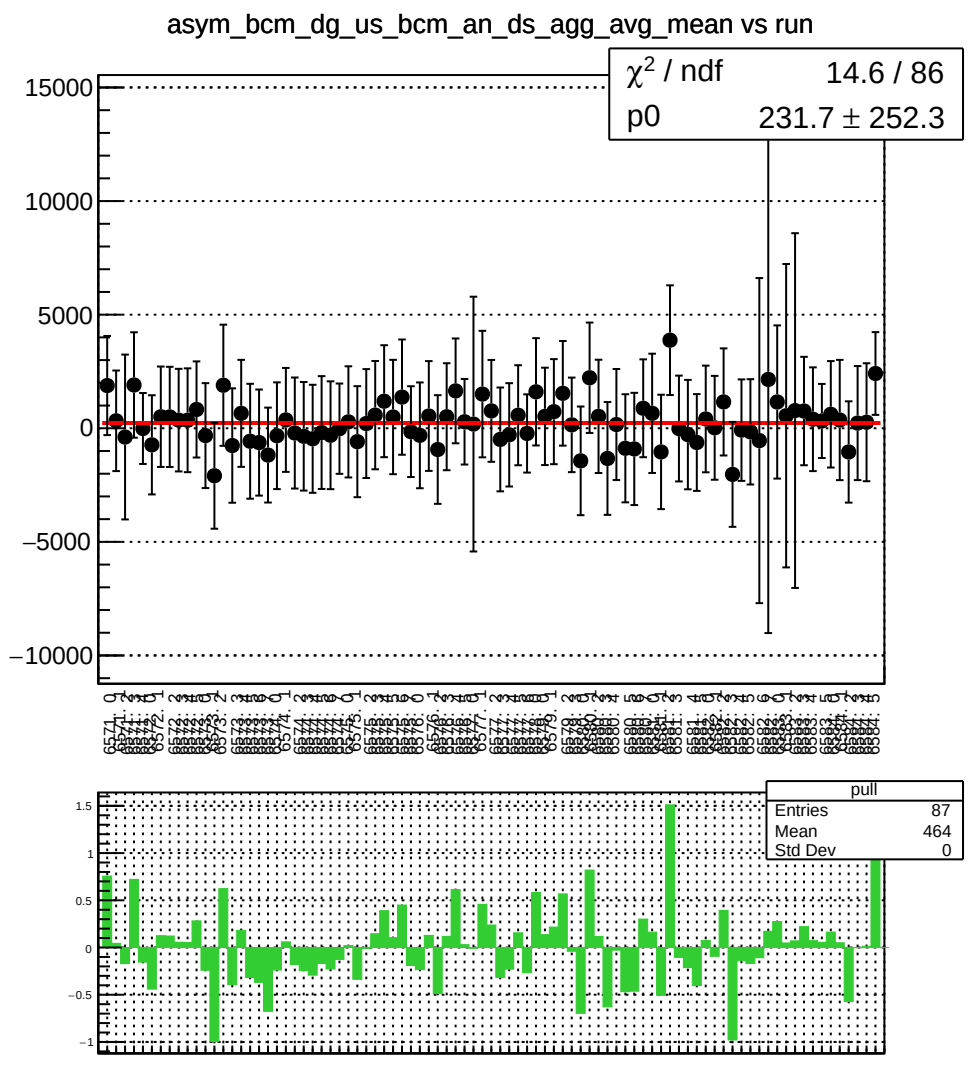

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 14.2 / 86
p0 196.9 ± 249.6
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 233.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.001859
Std Dev 0.404
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

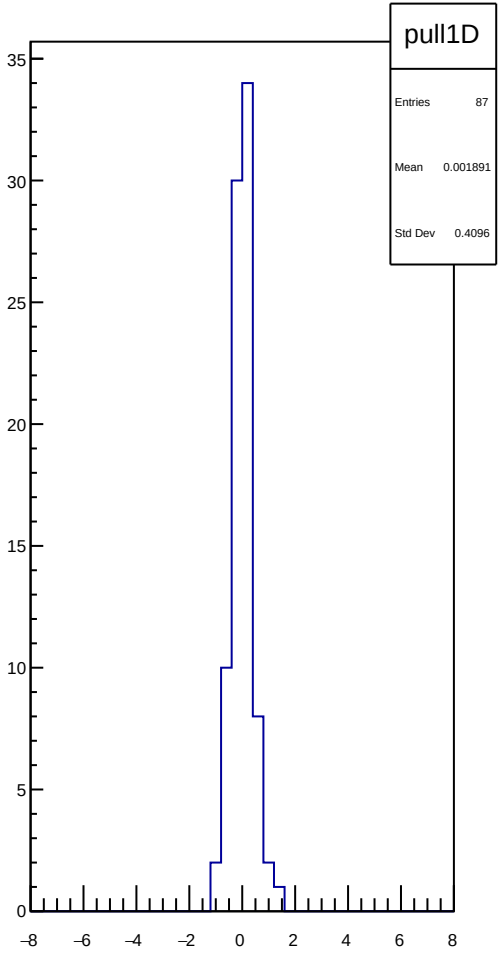

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 5.874e+04 / 86
p0 225.2 ± 0.1765
1400
1200
1000
800
600
400
200

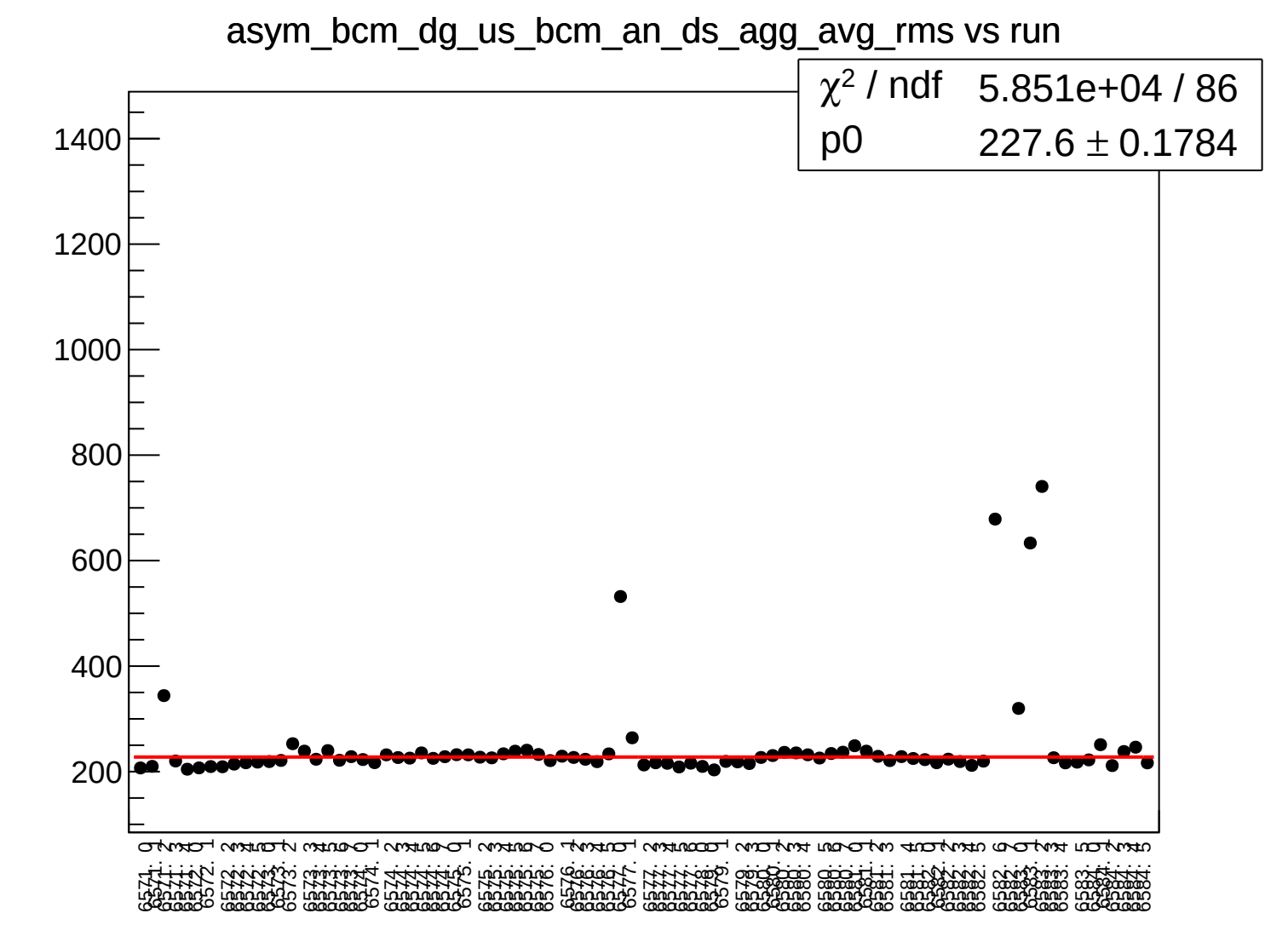

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 95.59 / 86
p0 −7.593 ± 10.97
400
200
0
−200
−400
pull
Entries 87
Mean −730.1
Std Dev 0
3
2
1
0
−1
−2

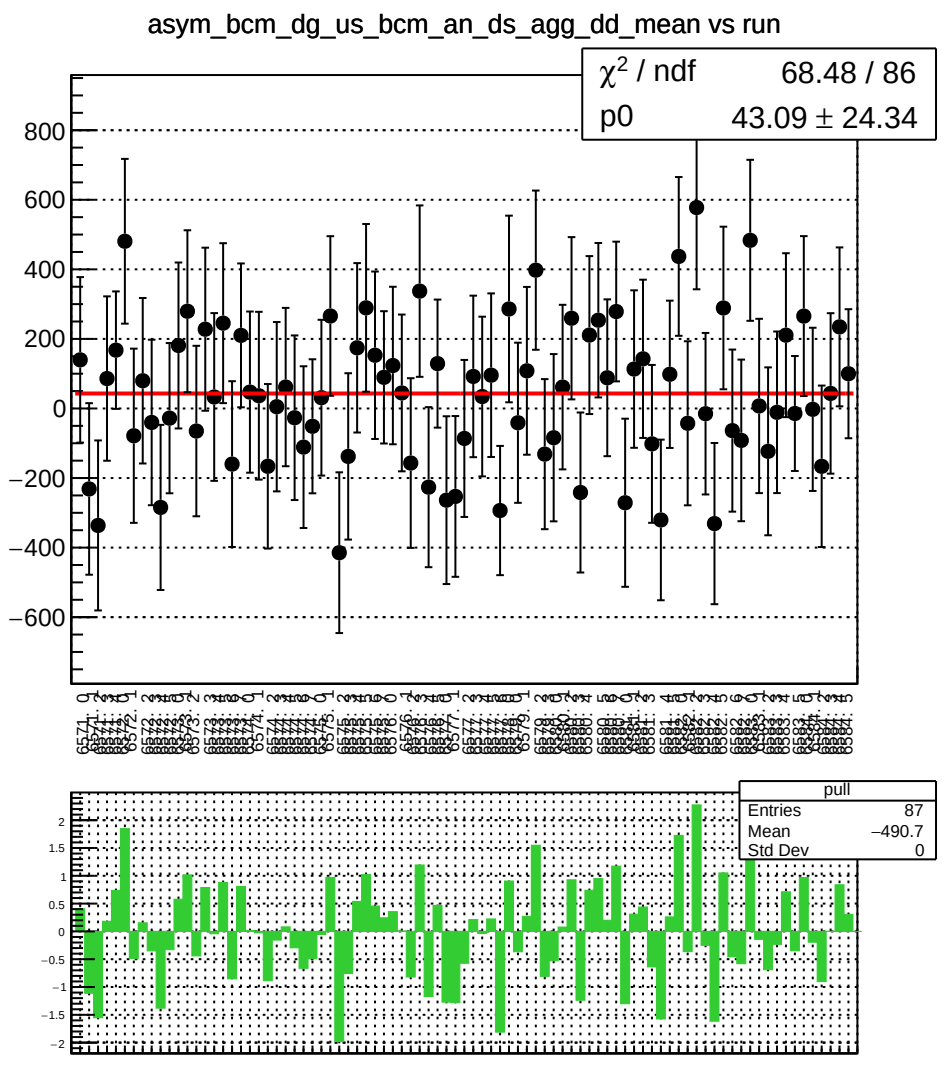

pull1D
Entries 87
Mean 0.001955
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

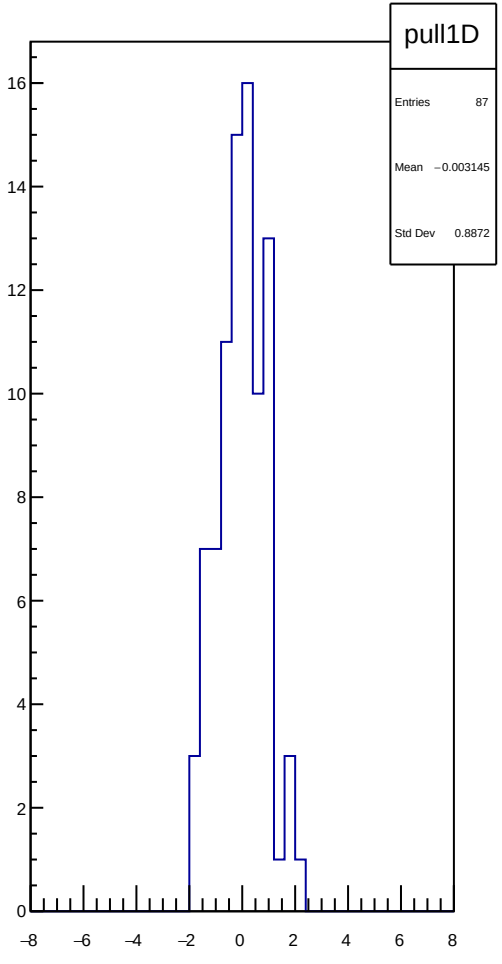

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.079e+04 / 86
p0 10.01 ± 0.007755
15
14
13
12
11
10
9

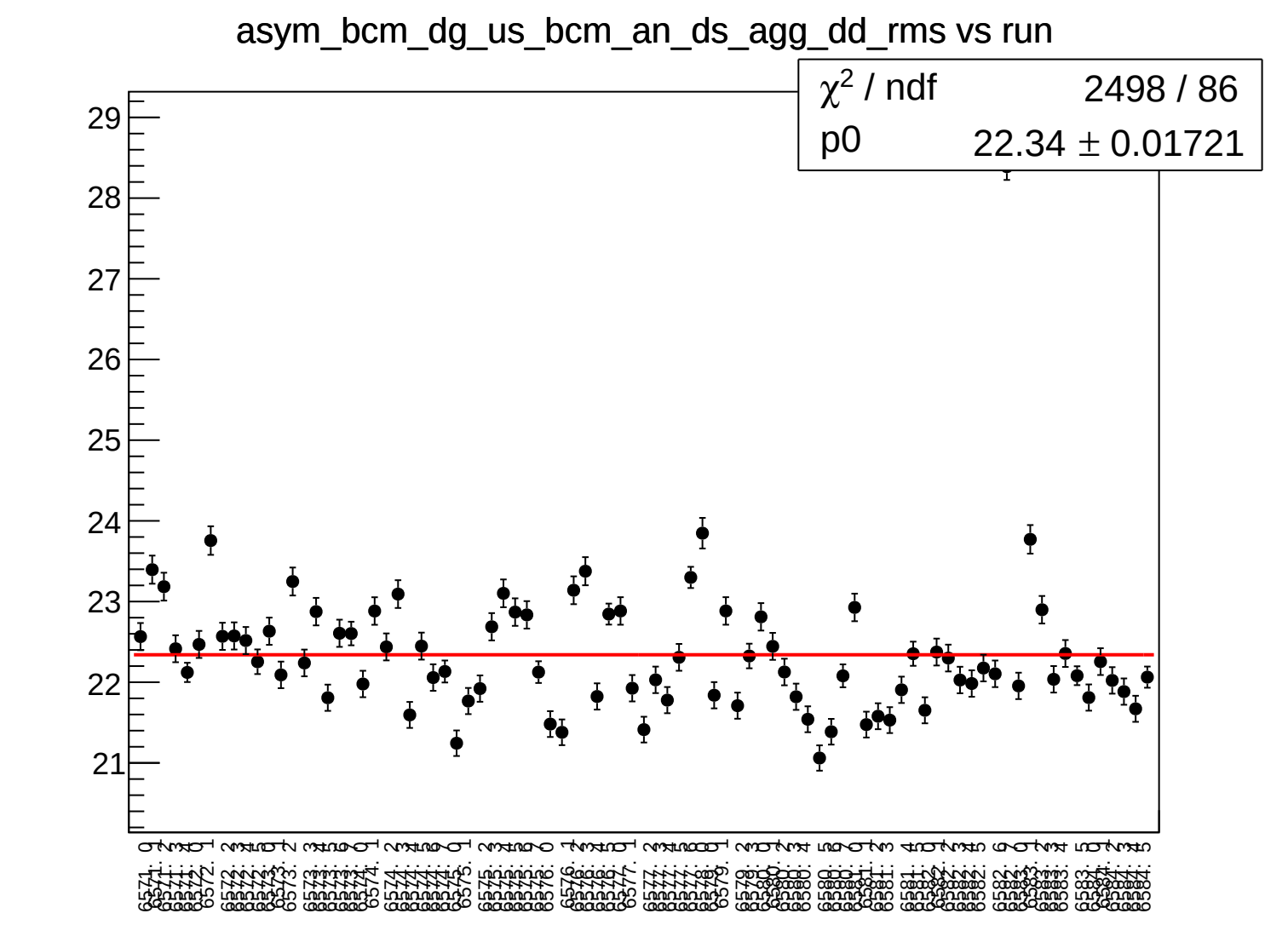

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.6 / 86
p0 231.7 ± 252.3
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 464
Std Dev 0
1.5
1
0.5
0
−0.5
−1

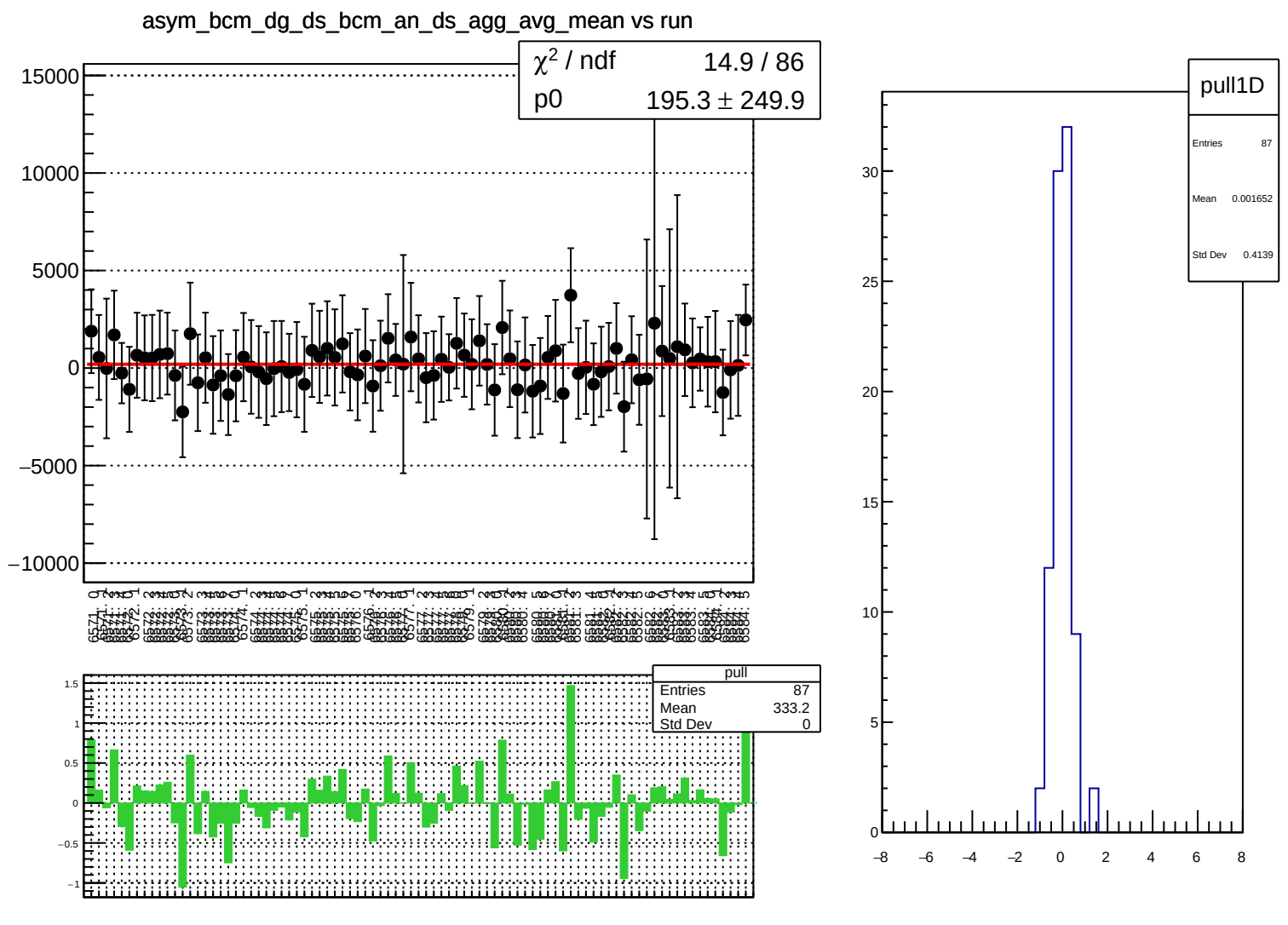

pull1D
Entries 87
Mean 0.001891
Std Dev 0.4096
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

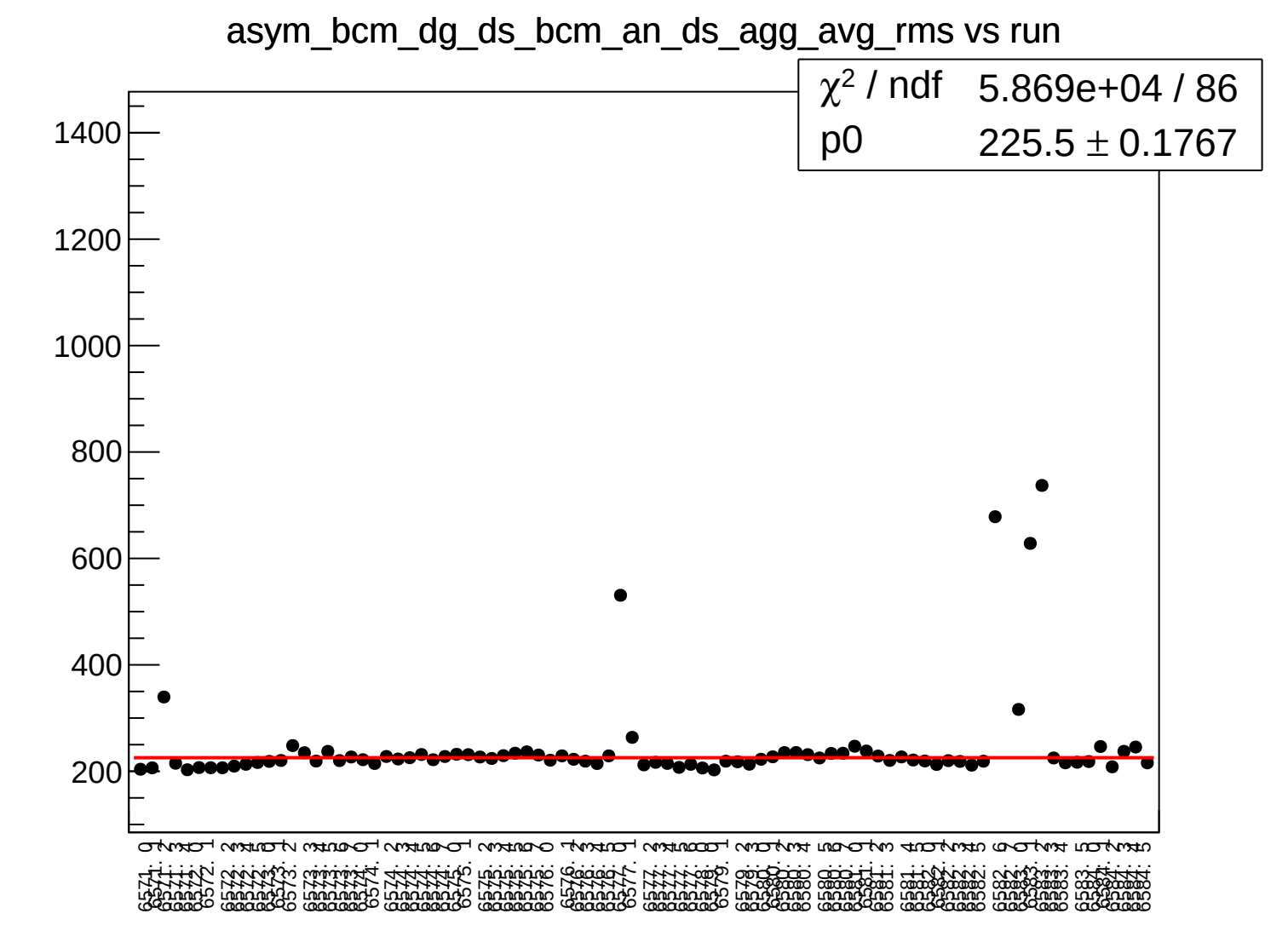

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5.851e+04 / 86
p0 227.6 ± 0.1784
1400
1200
1000
800
600
400
200

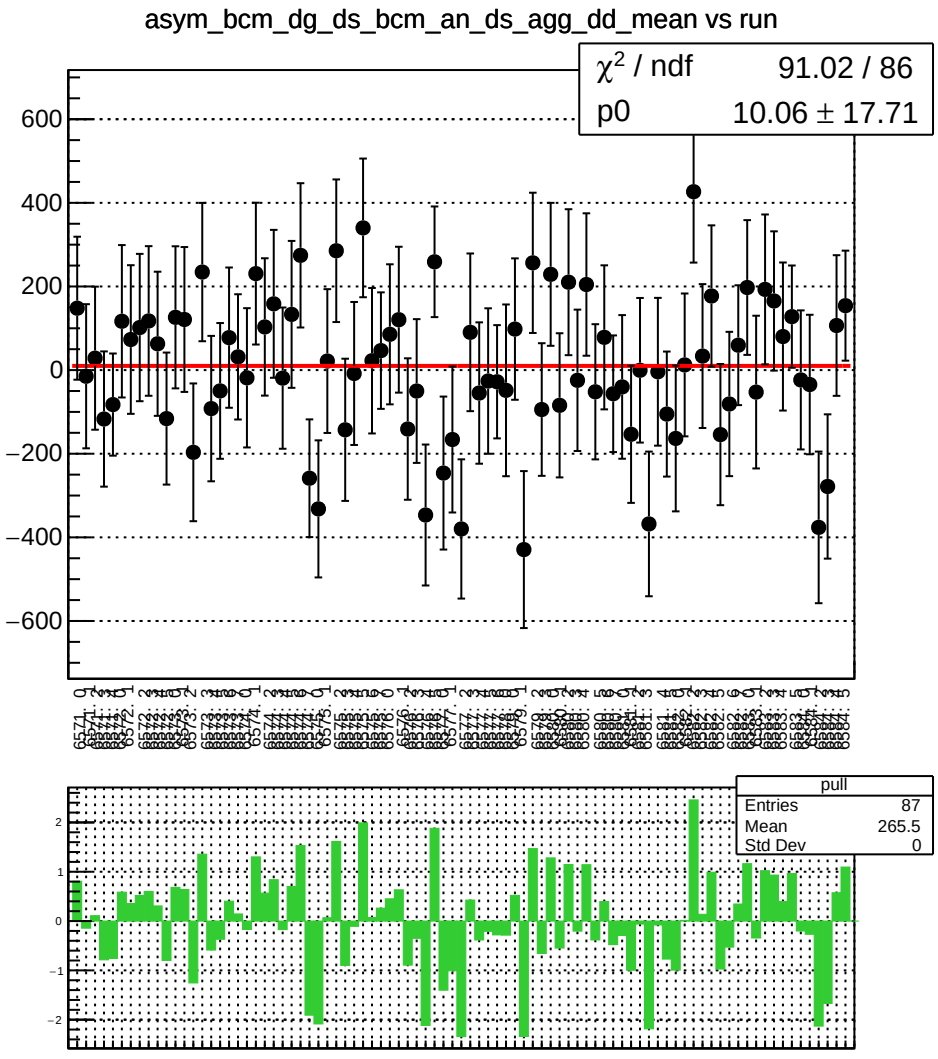

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 68.48 / 86
p0 43.09 ± 24.34
pull
Entries 87
Mean −490.7
Std Dev 0

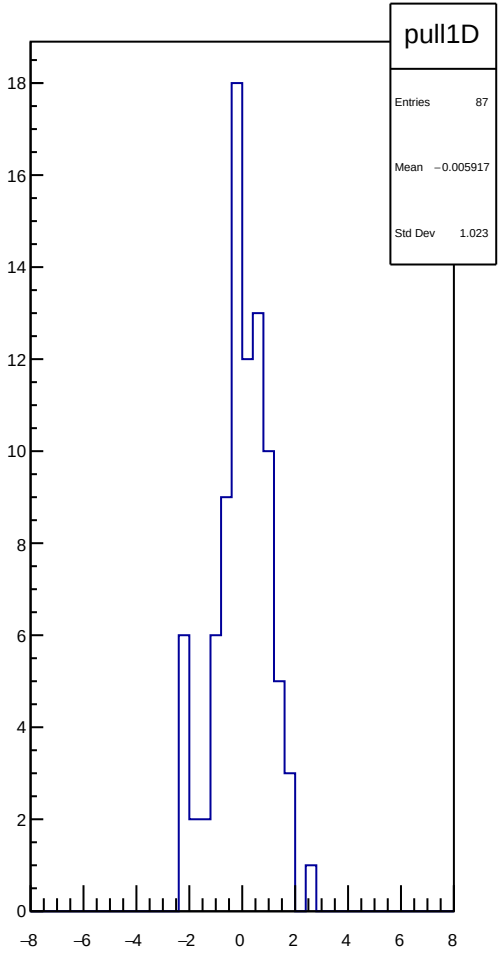

pull1D
Entries 87
Mean −0.003145
Std Dev 0.8872

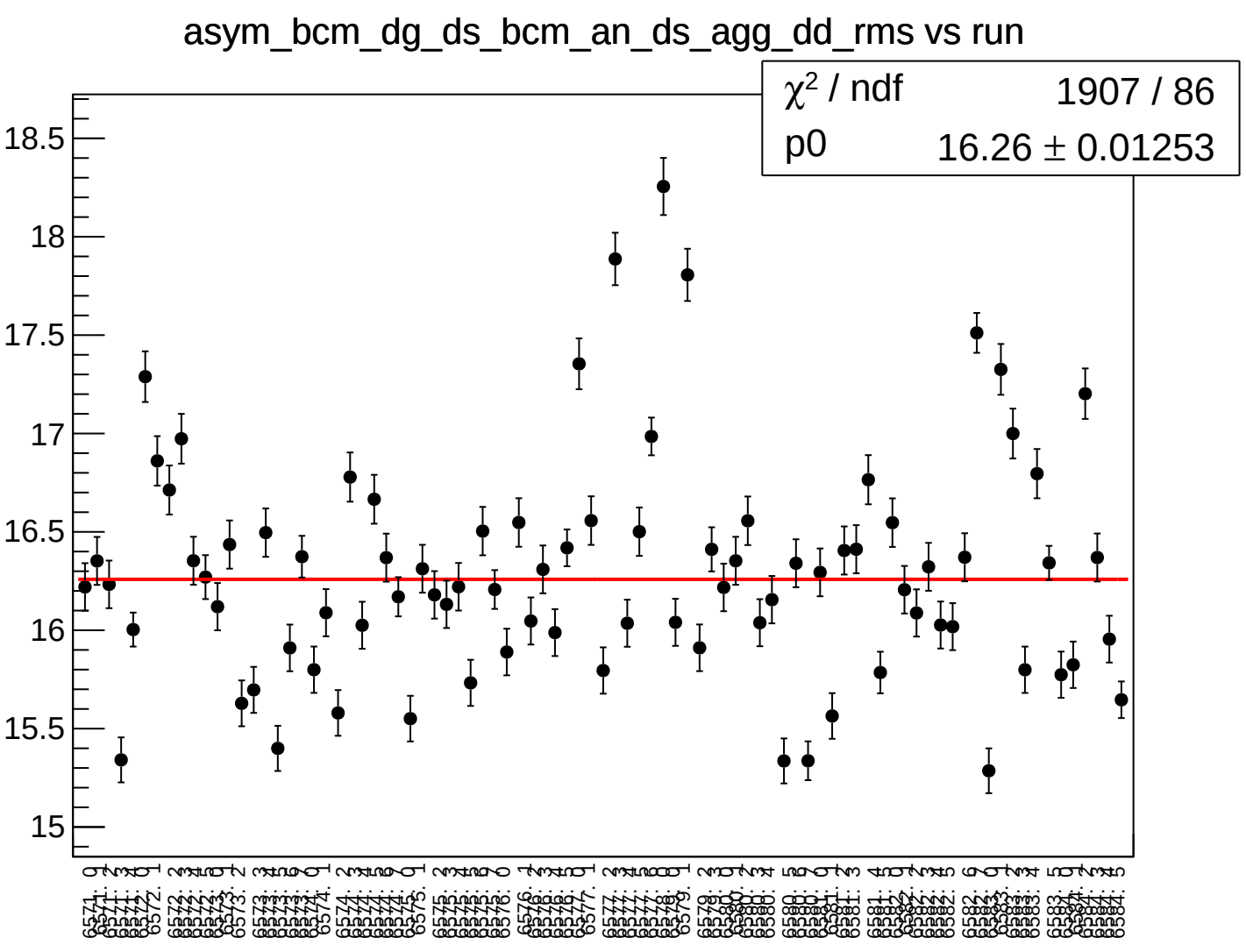

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2498 / 86
p0 22.34 ± 0.01721
29
28
27
26
25
24
23
22
21

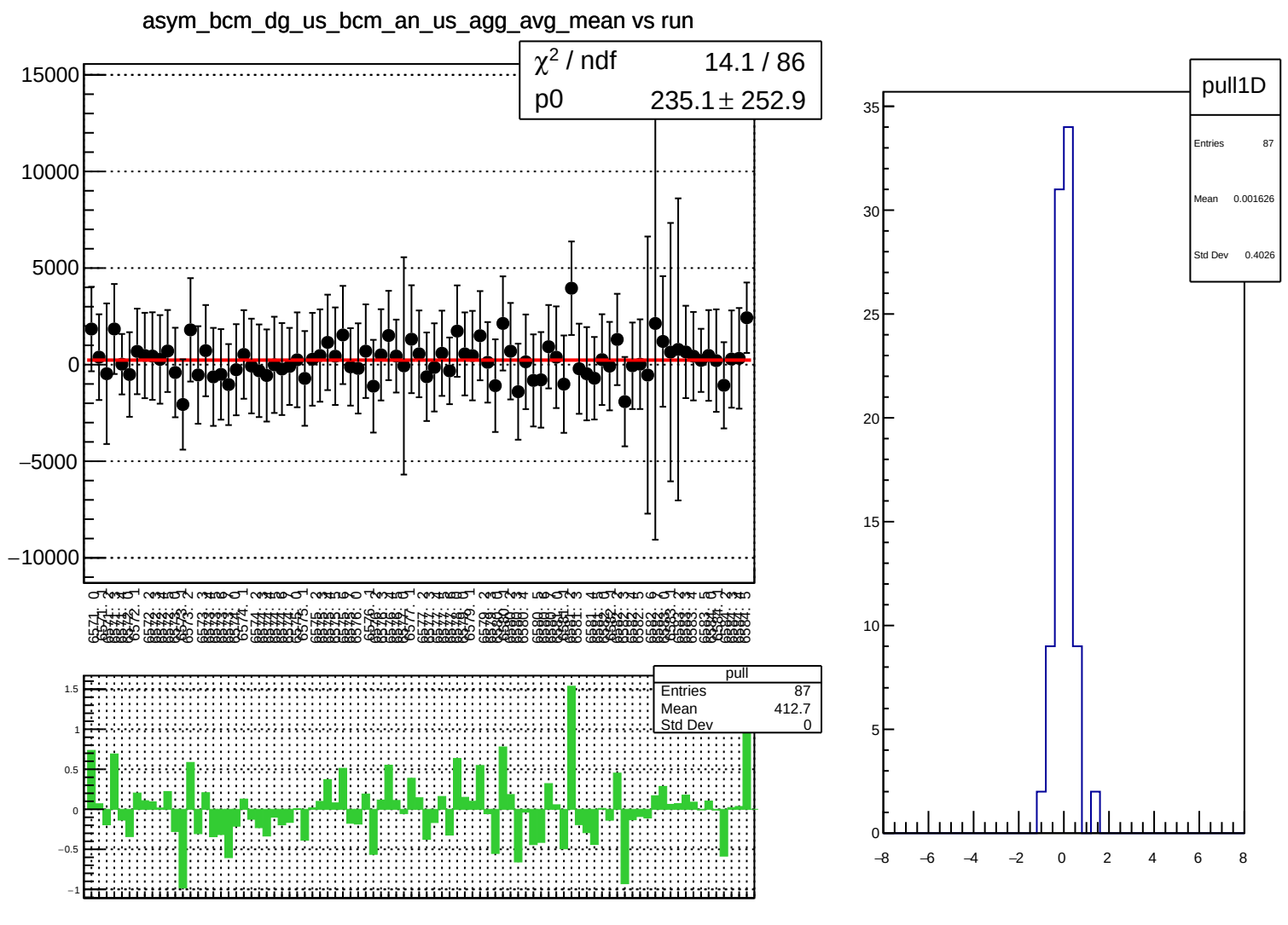

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.9 / 86
p0 195.3 ± 249.9
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 333.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.001652
Std Dev 0.4139
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

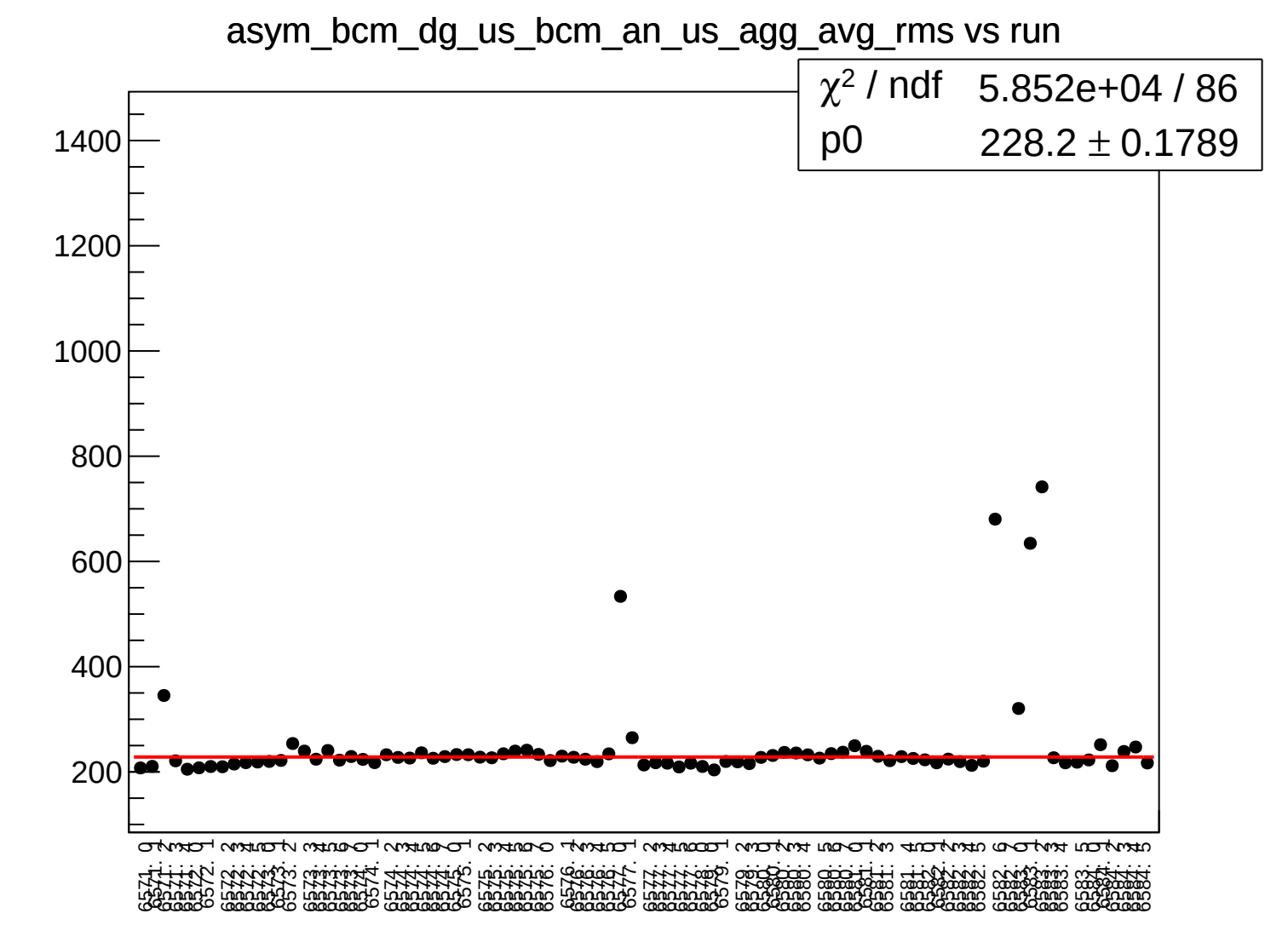

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5.869e+04 / 86
p0 225.5 ± 0.1767
1400
1200
1000
800
600
400
200

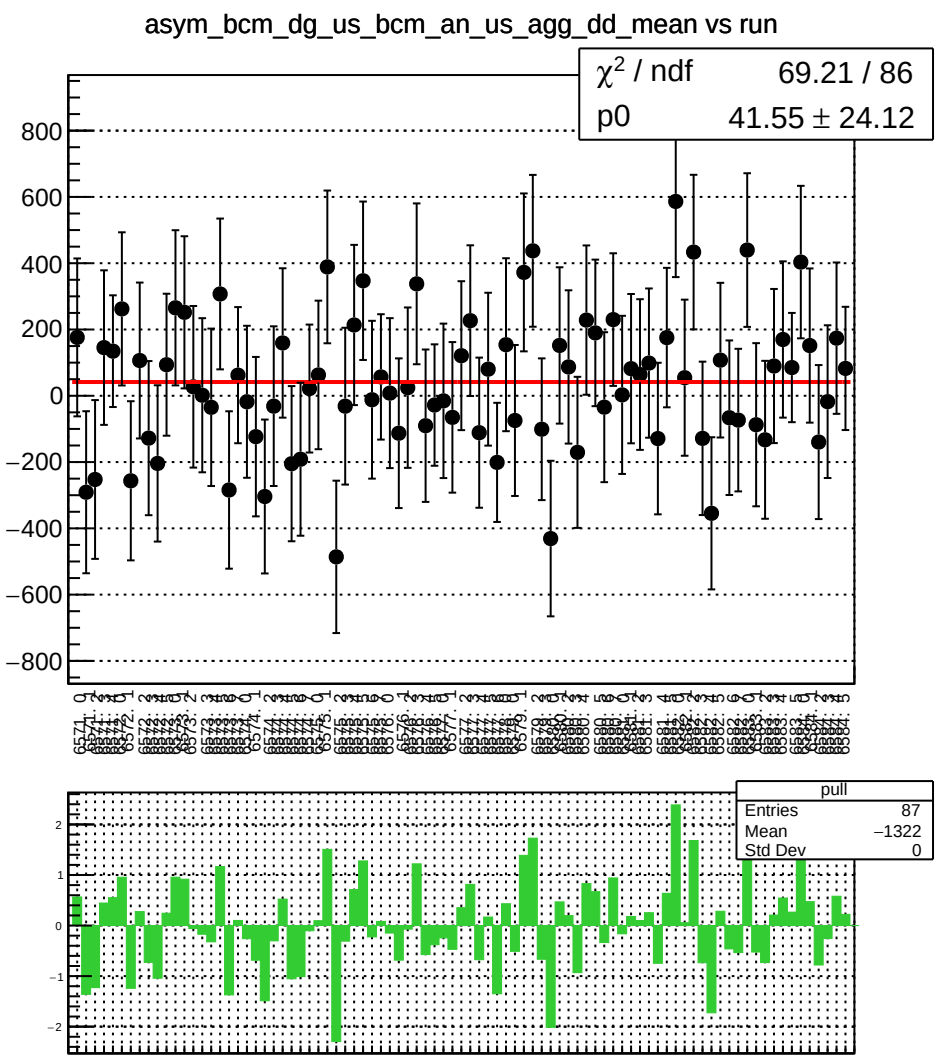

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 91.02 / 86
p0 10.06 ± 17.71
pull
Entries 87
Mean 265.5
Std Dev 0

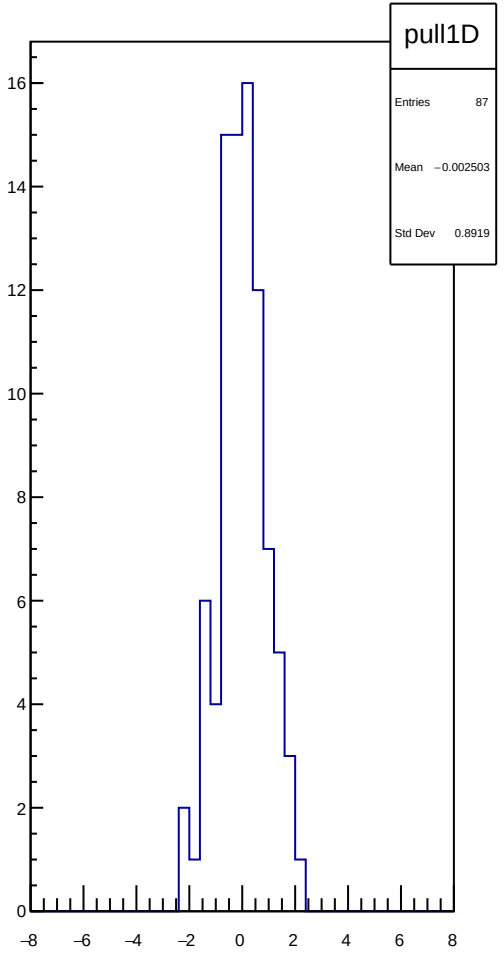

pull1D
Entries 87
Mean −0.005917
Std Dev 1.023

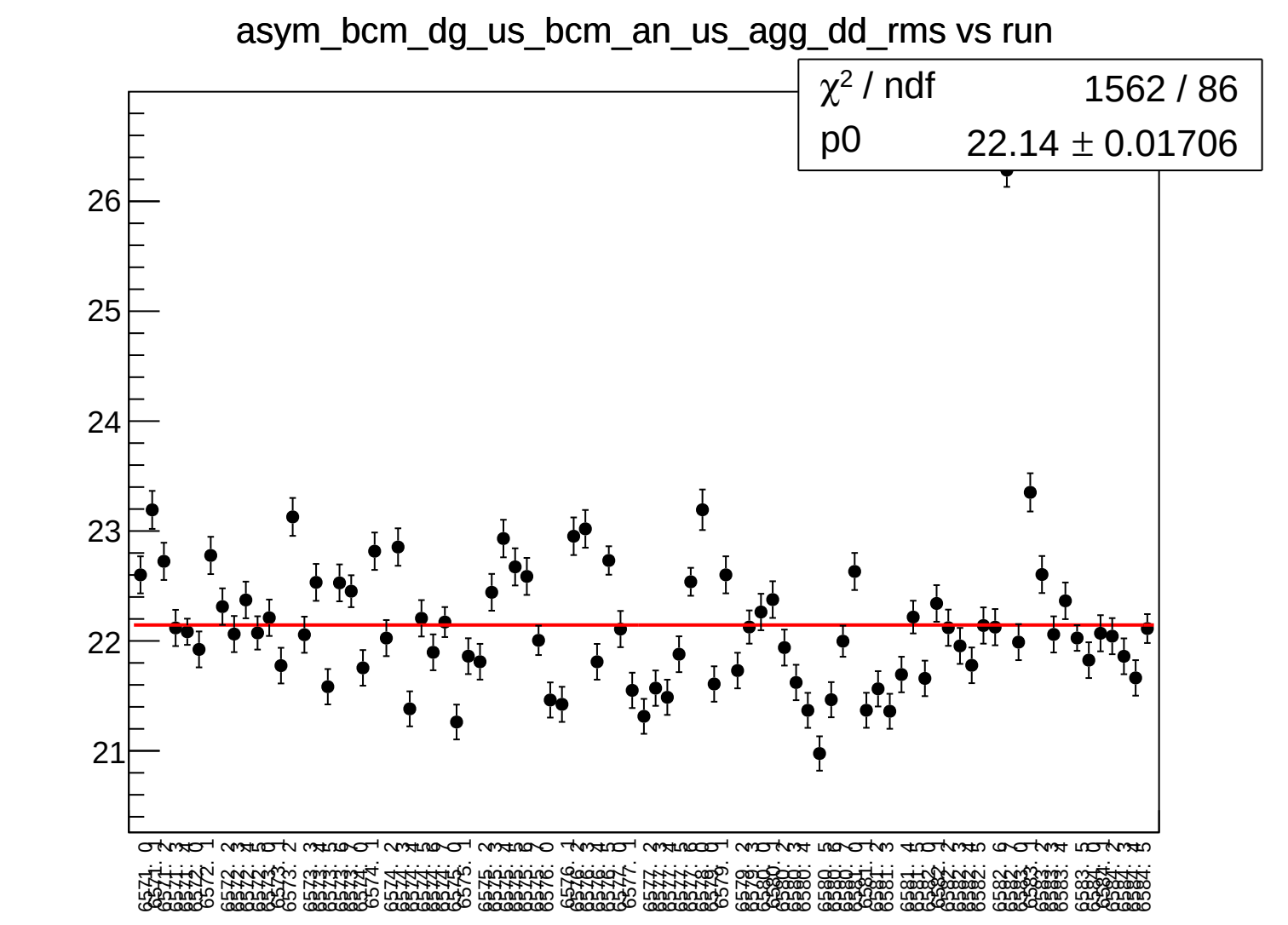

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1907 / 86
p0 16.26 ± 0.01253
18.5
18
17.5
17
16.5
16
15.5
15

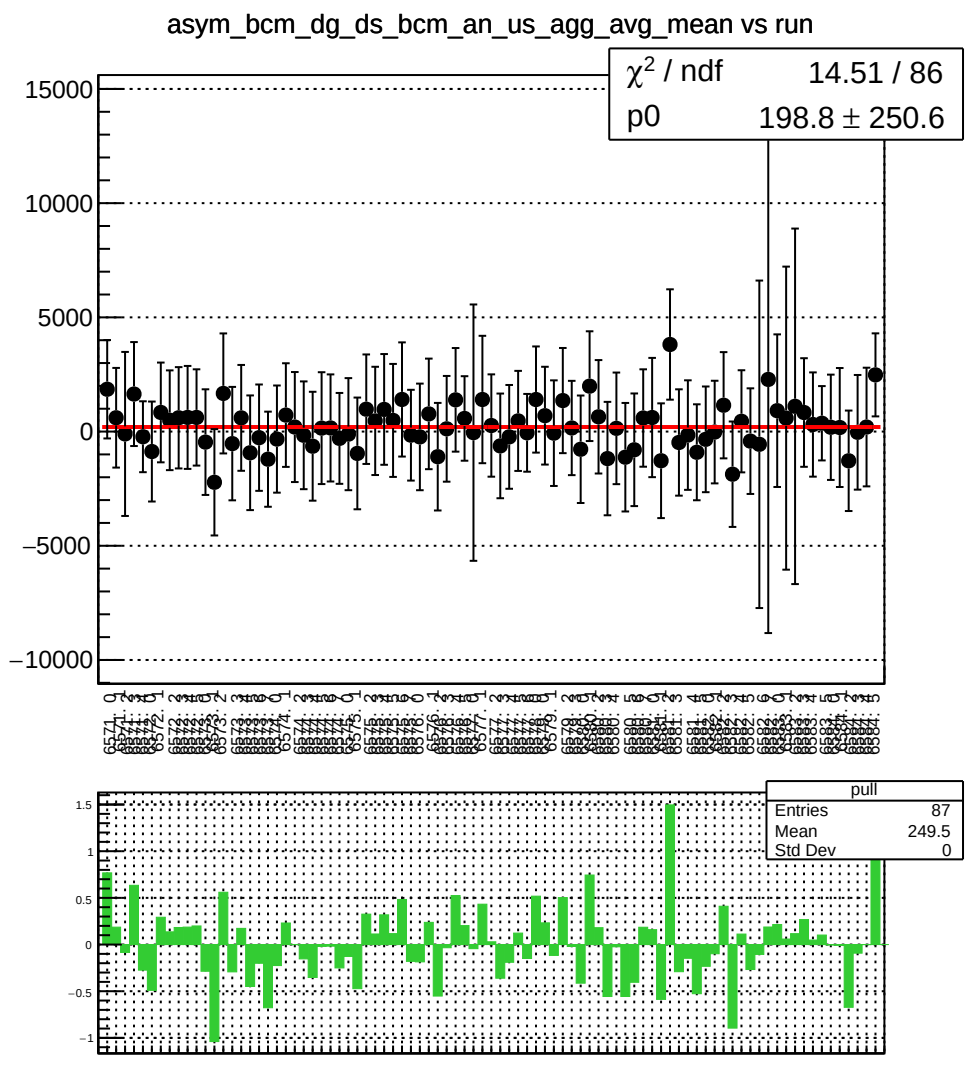

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.1 / 86
p0 235.1 ± 252.9
pull
Entries 87
Mean 412.7
Std Dev 0
pull1D
Entries 87
Mean 0.001626
Std Dev 0.4026

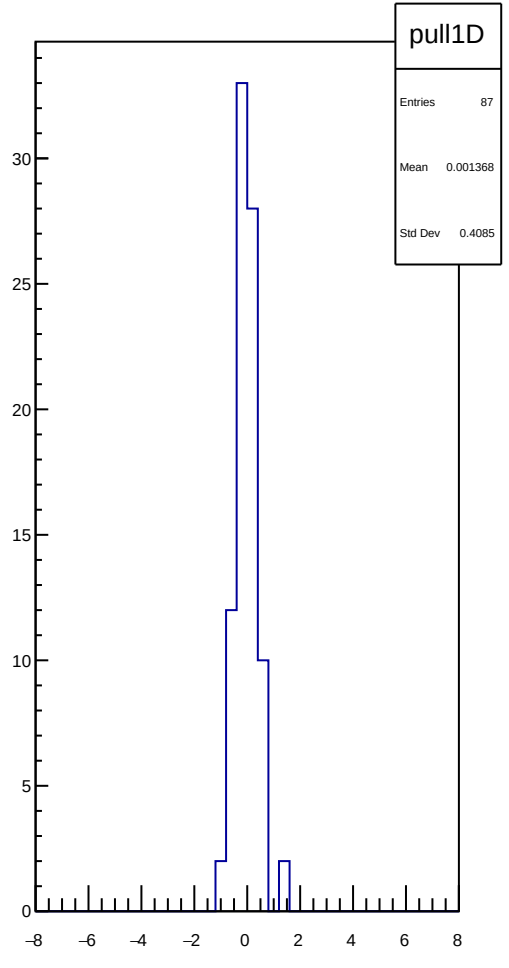

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5.852e+04 / 86
p0 228.2 ± 0.1789
1400
1200
1000
800
600
400
200

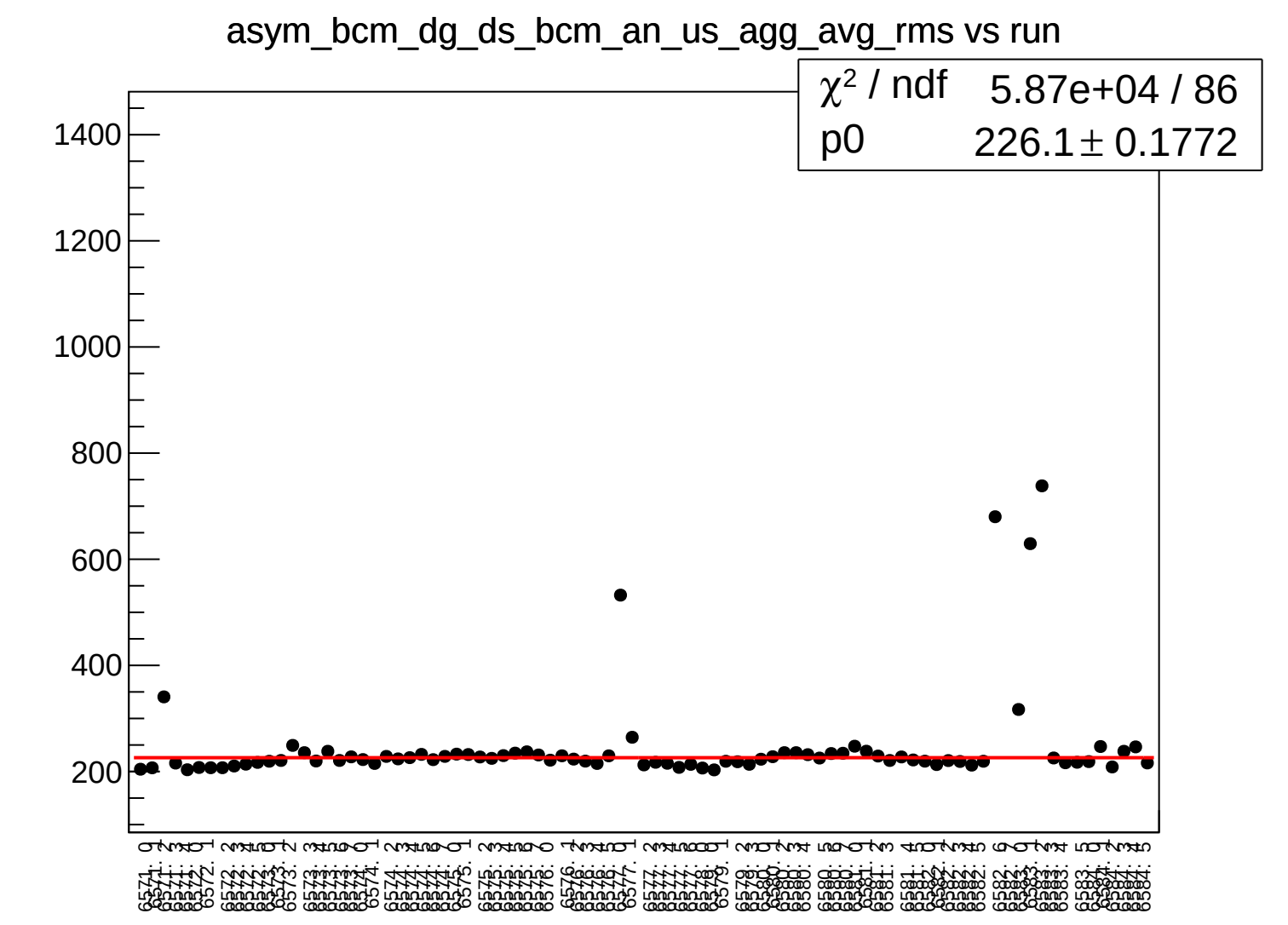

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 69.21 / 86
p0 41.55 ± 24.12
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1322
Std Dev 0
2
1
0
−1
−2

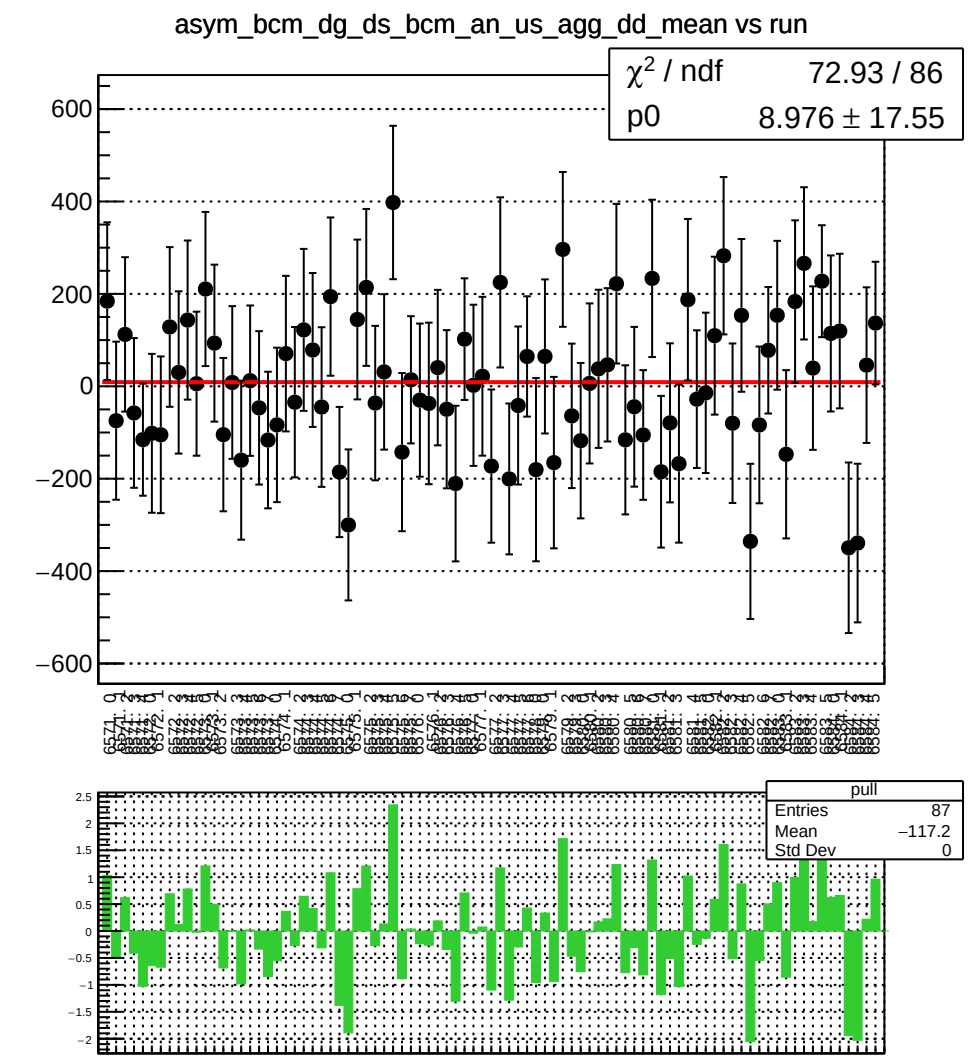

pull1D
Entries 87
Mean −0.002503
Std Dev 0.8919
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

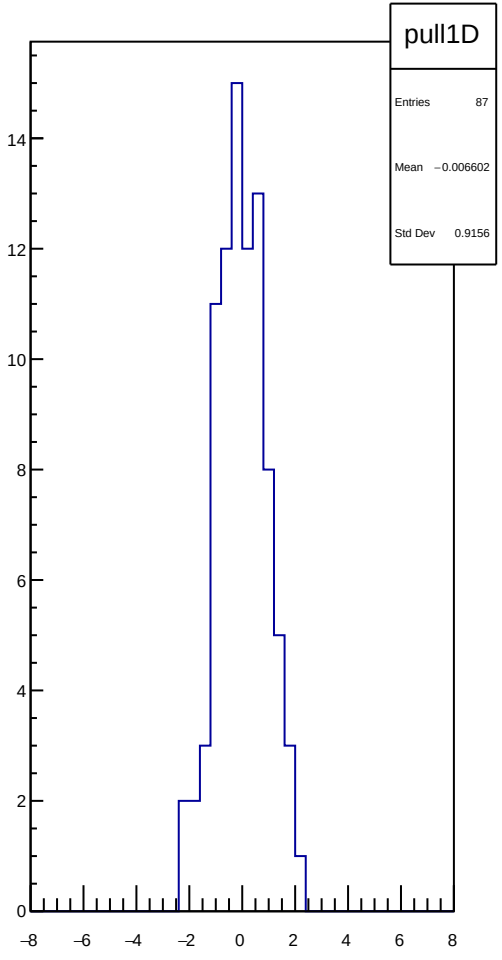

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1562 / 86
p0 22.14 ± 0.01706
26
25
24
23
22
21

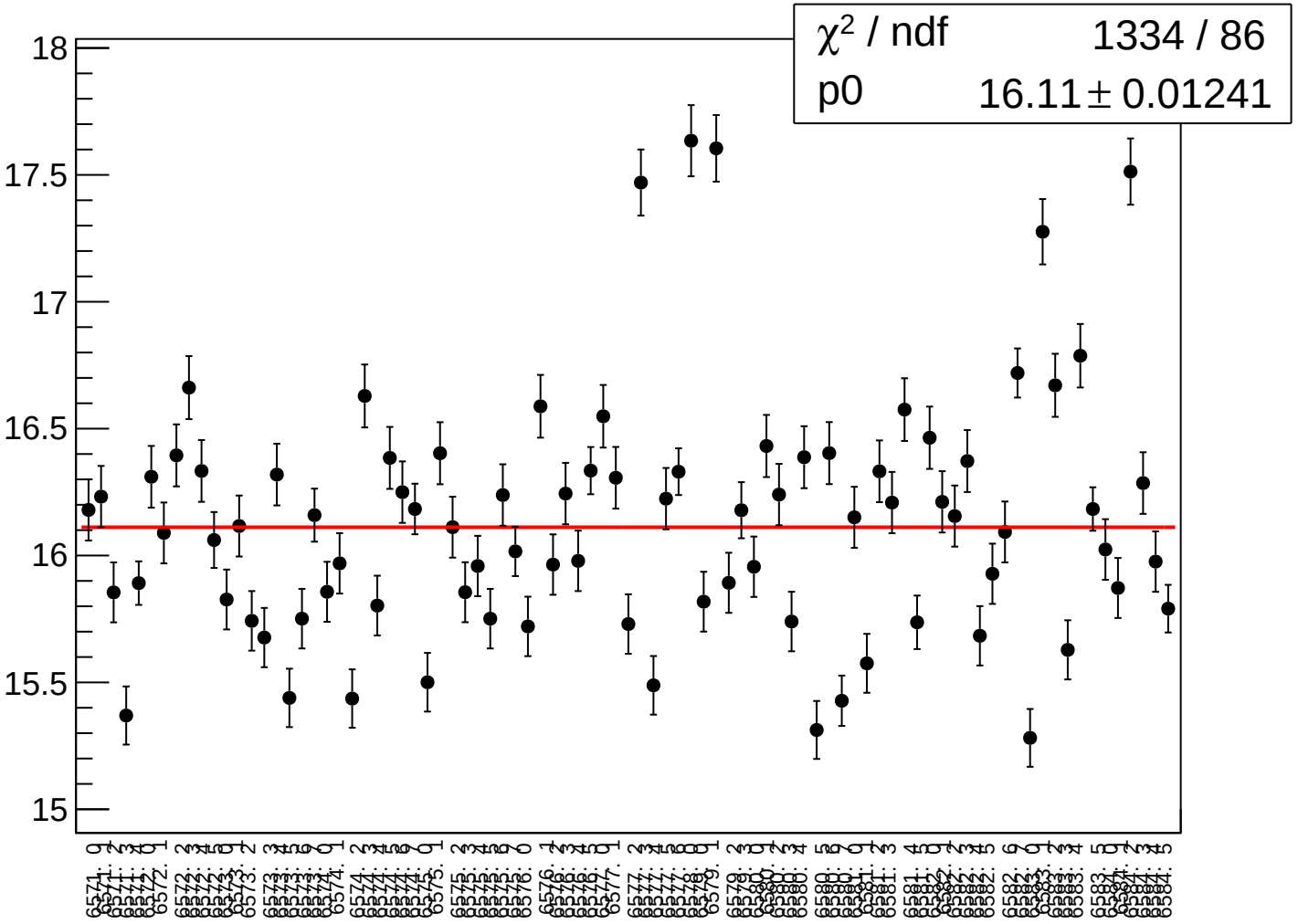

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.51 / 86
p0 198.8 ± 250.6
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 249.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

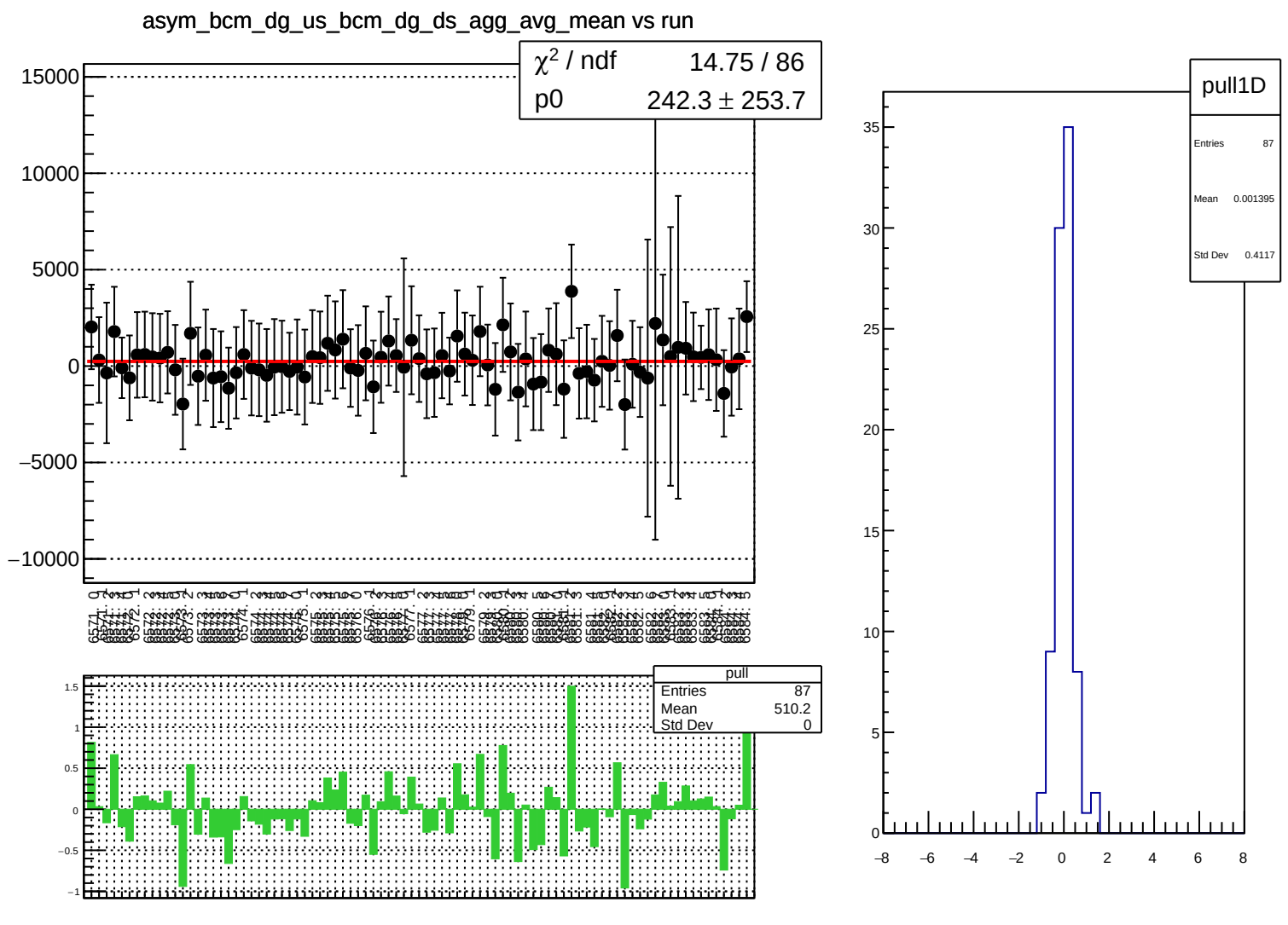

pull1D
Entries 87
Mean 0.001368
Std Dev 0.4085
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

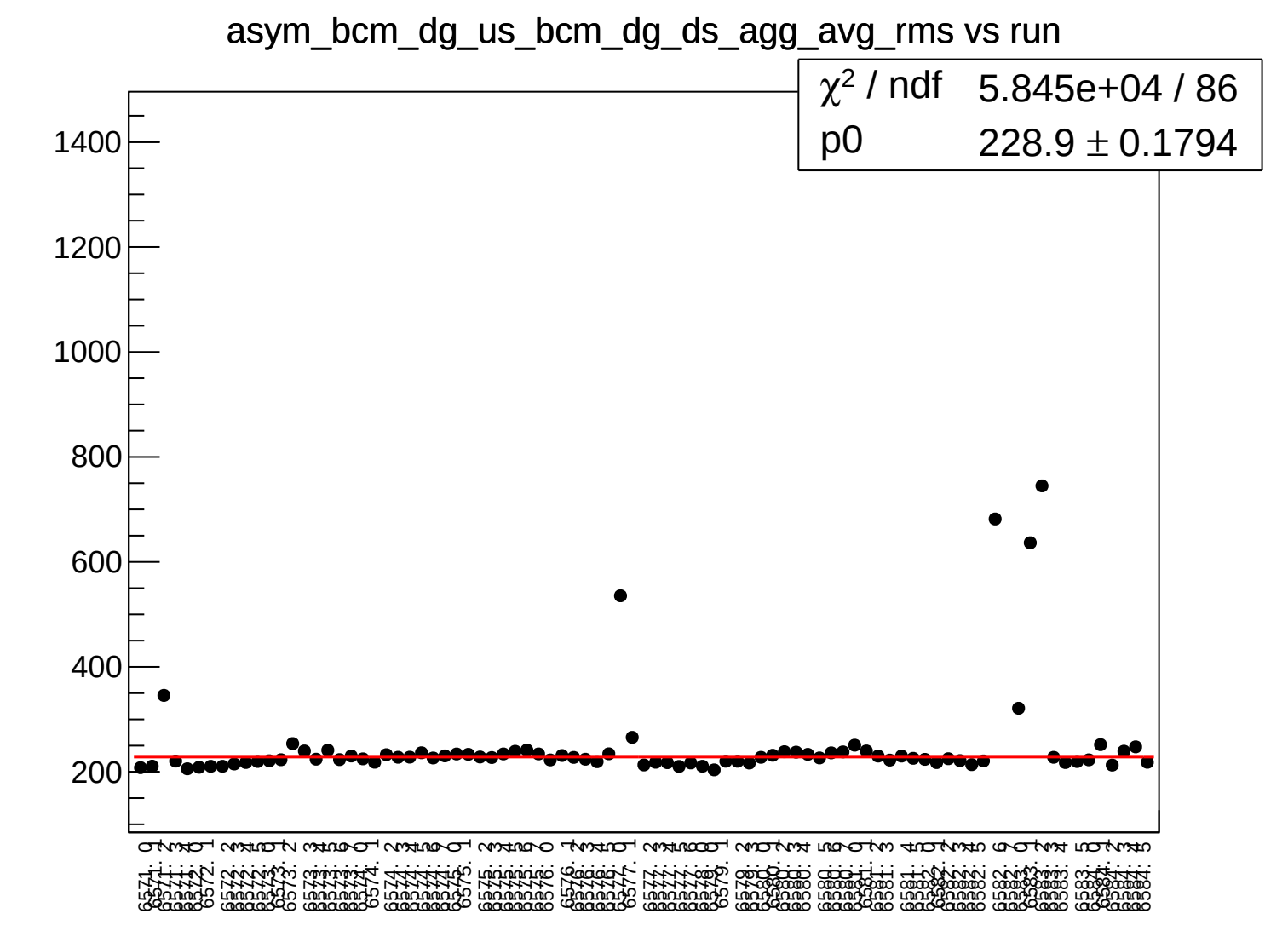

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5.87e+04 / 86
p0 226.1 ± 0.1772
1400
1200
1000
800
600
400
200

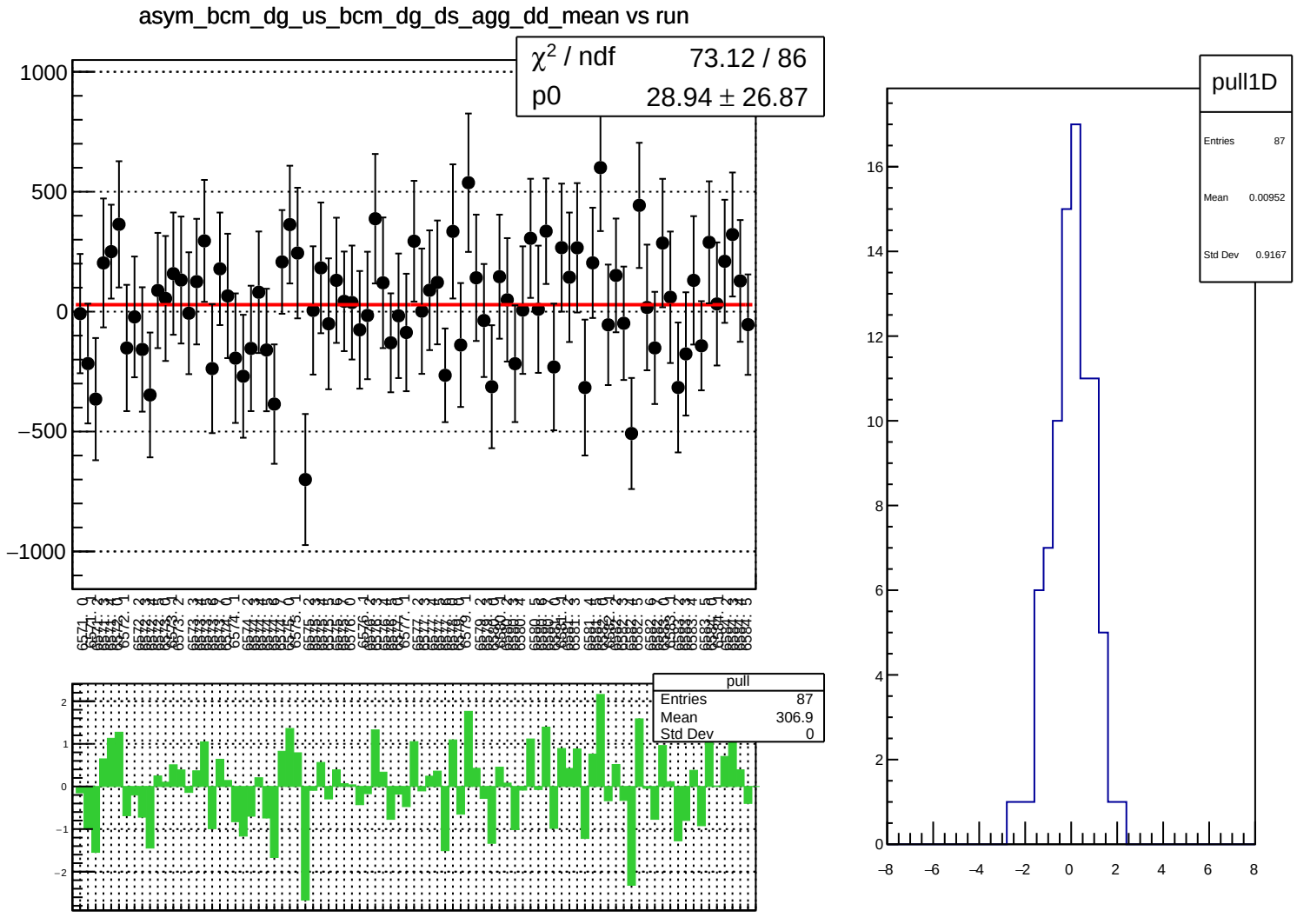

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 72.93 / 86
p0 8.976 ± 17.55
pull
Entries 87
Mean −117.2
Std Dev 0

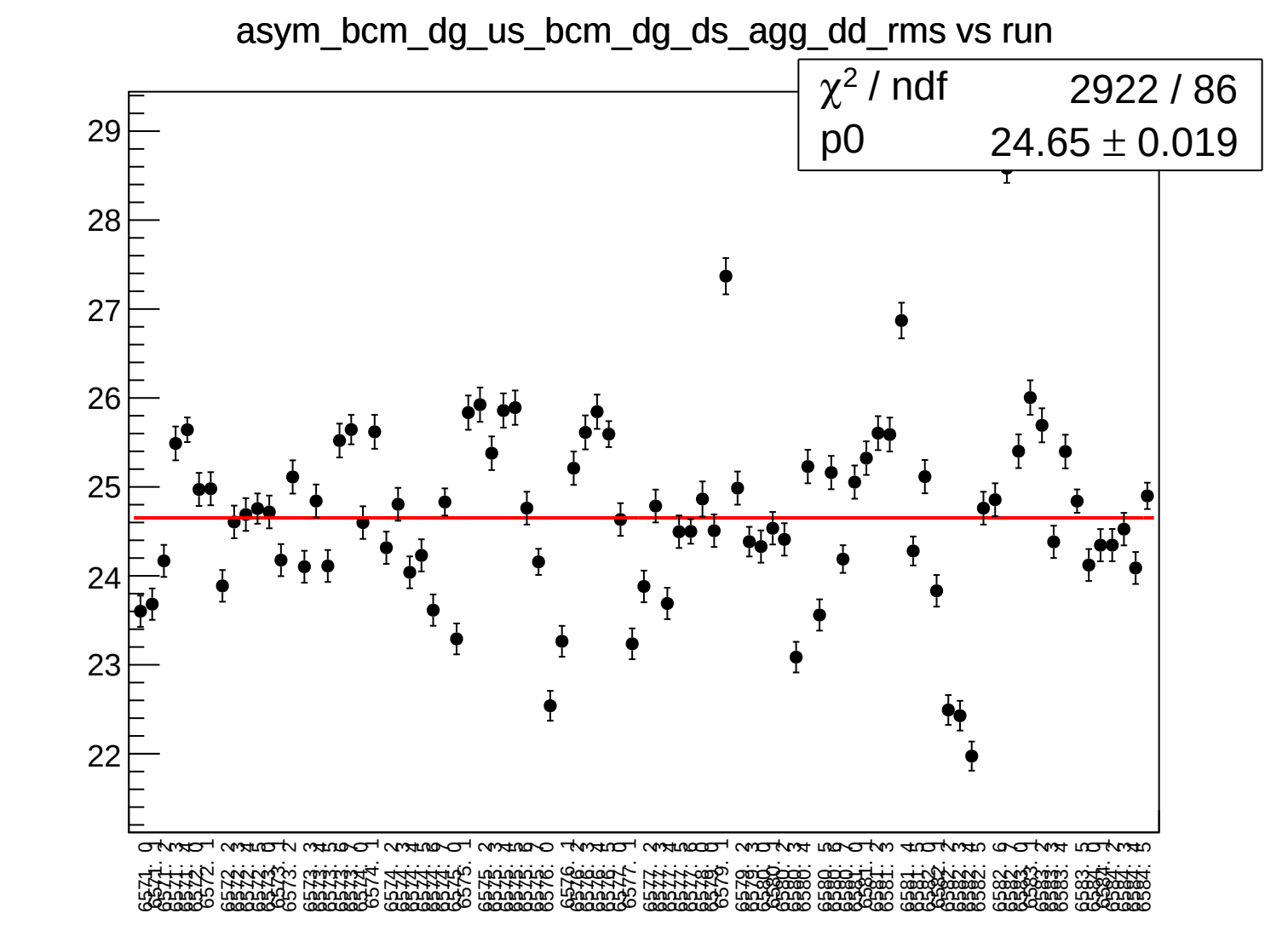

pull1D
Entries 87
Mean −0.006602
Std Dev 0.9156

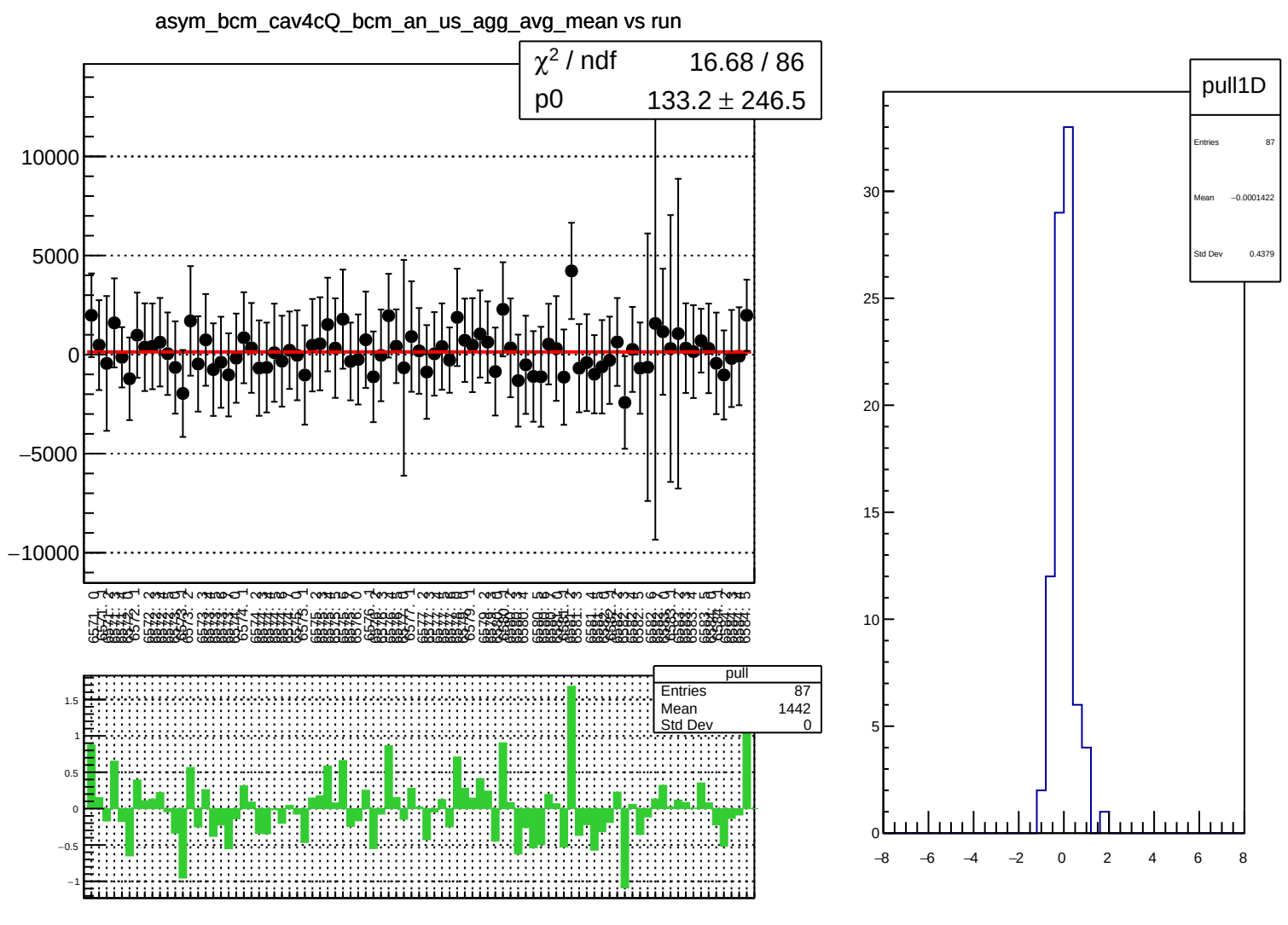

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1334 / 86
p0 16.11 ± 0.01241
18
17.5
17
16.5
16
15.5
15

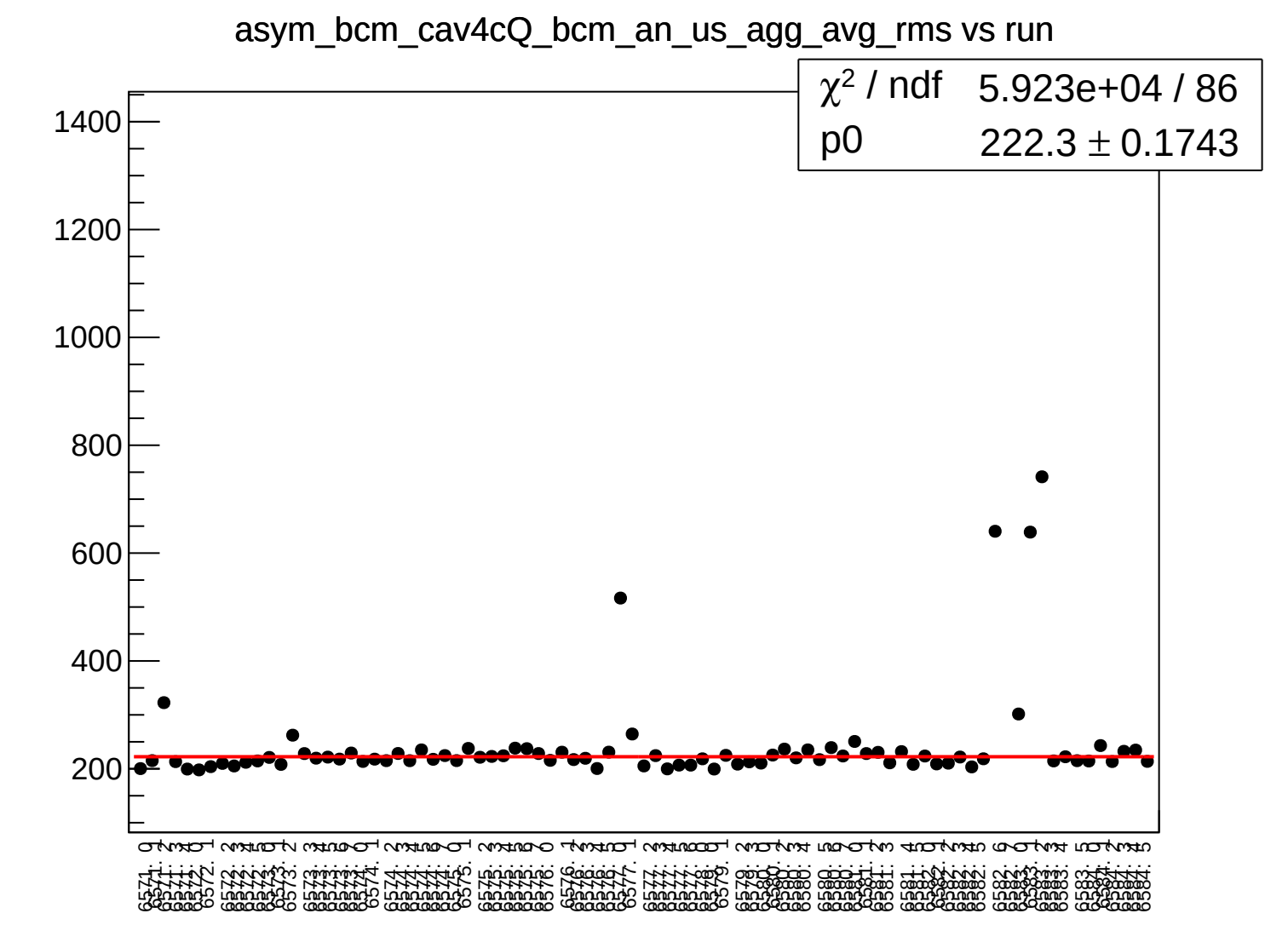

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.75 / 86
p0 242.3 ± 253.7
pull
Entries 87
Mean 510.2
Std Dev 0
pull1D
Entries 87
Mean 0.001395
Std Dev 0.4117

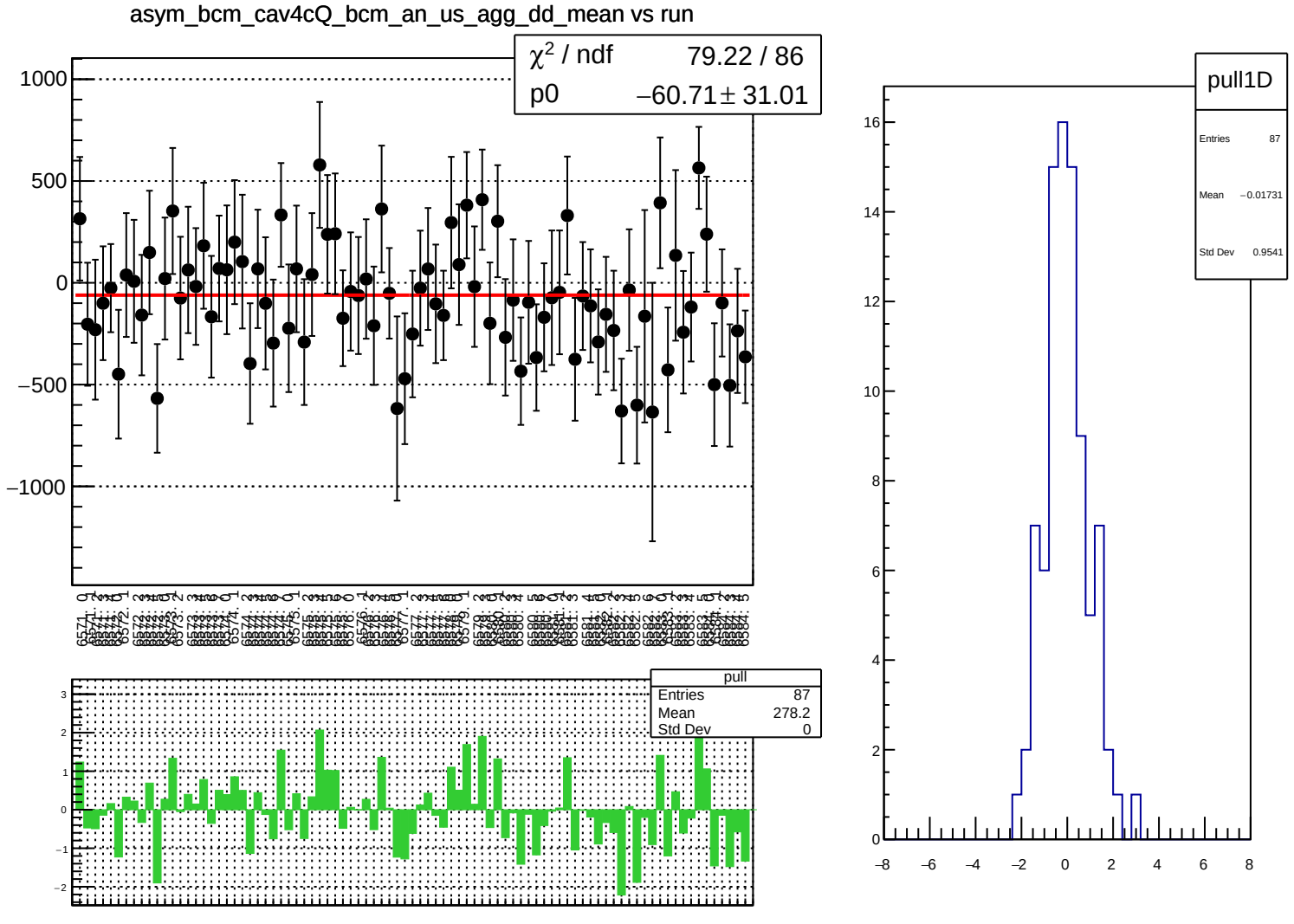

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5.845e+04 / 86
p0 228.9 ± 0.1794
1400
1200
1000
800
600
400
200

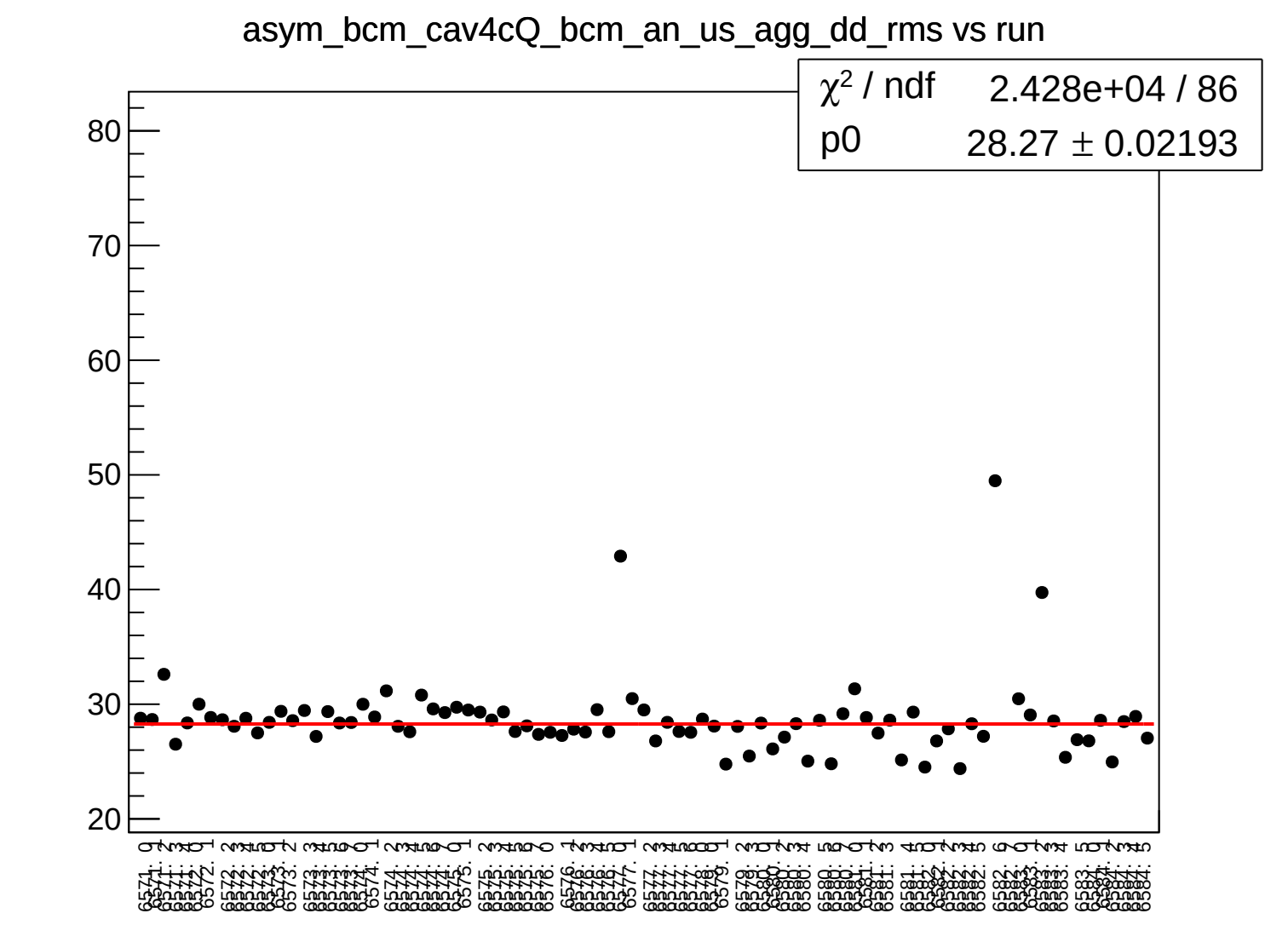

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 73.12 / 86
p0 28.94 ± 26.87
1000
500
0
−500
−1000
pull
Entries 87
Mean 306.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.00952
Std Dev 0.9167
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

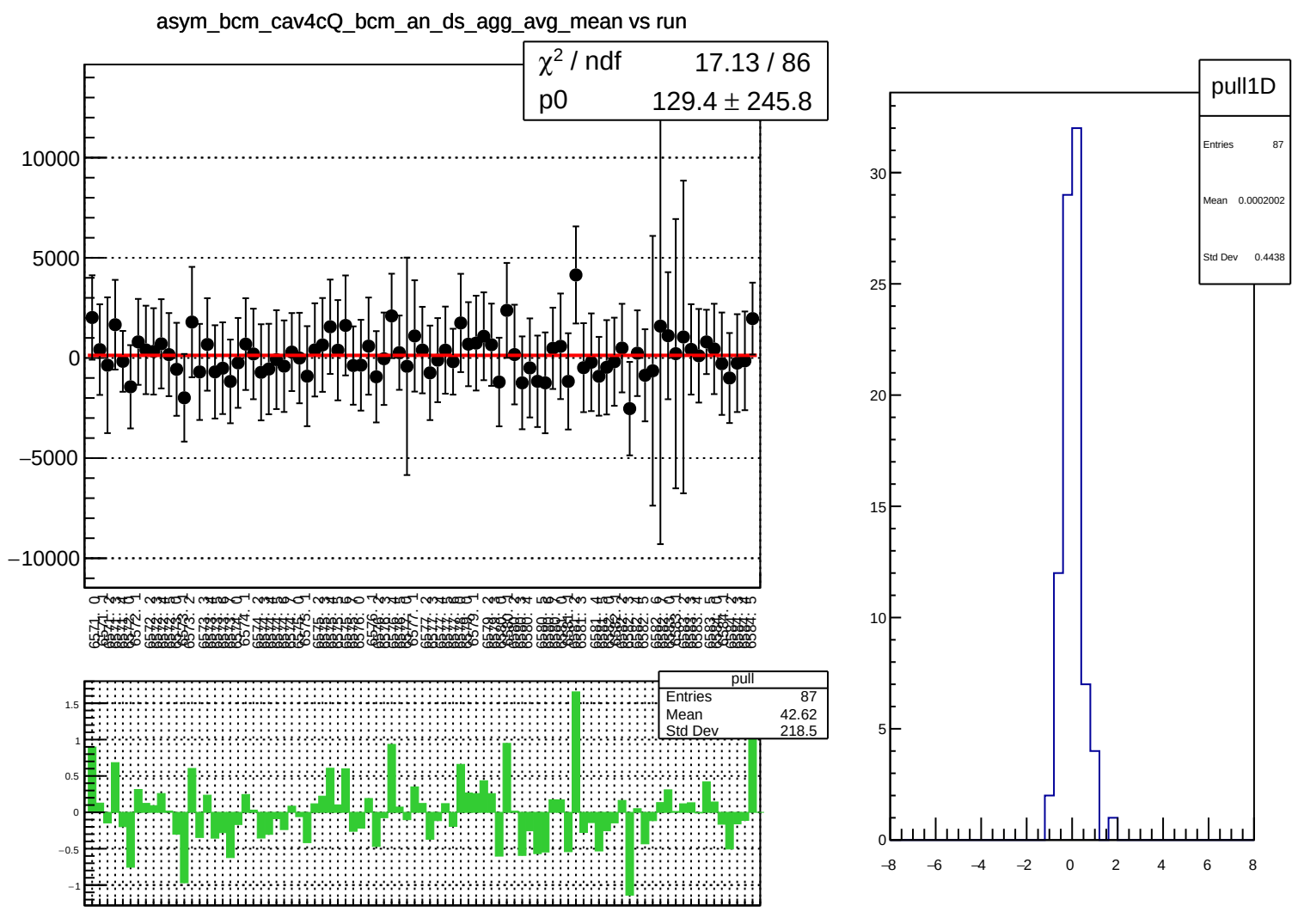

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2922 / 86
p0 24.65 ± 0.019
29
28
27
26
25
24
23
22

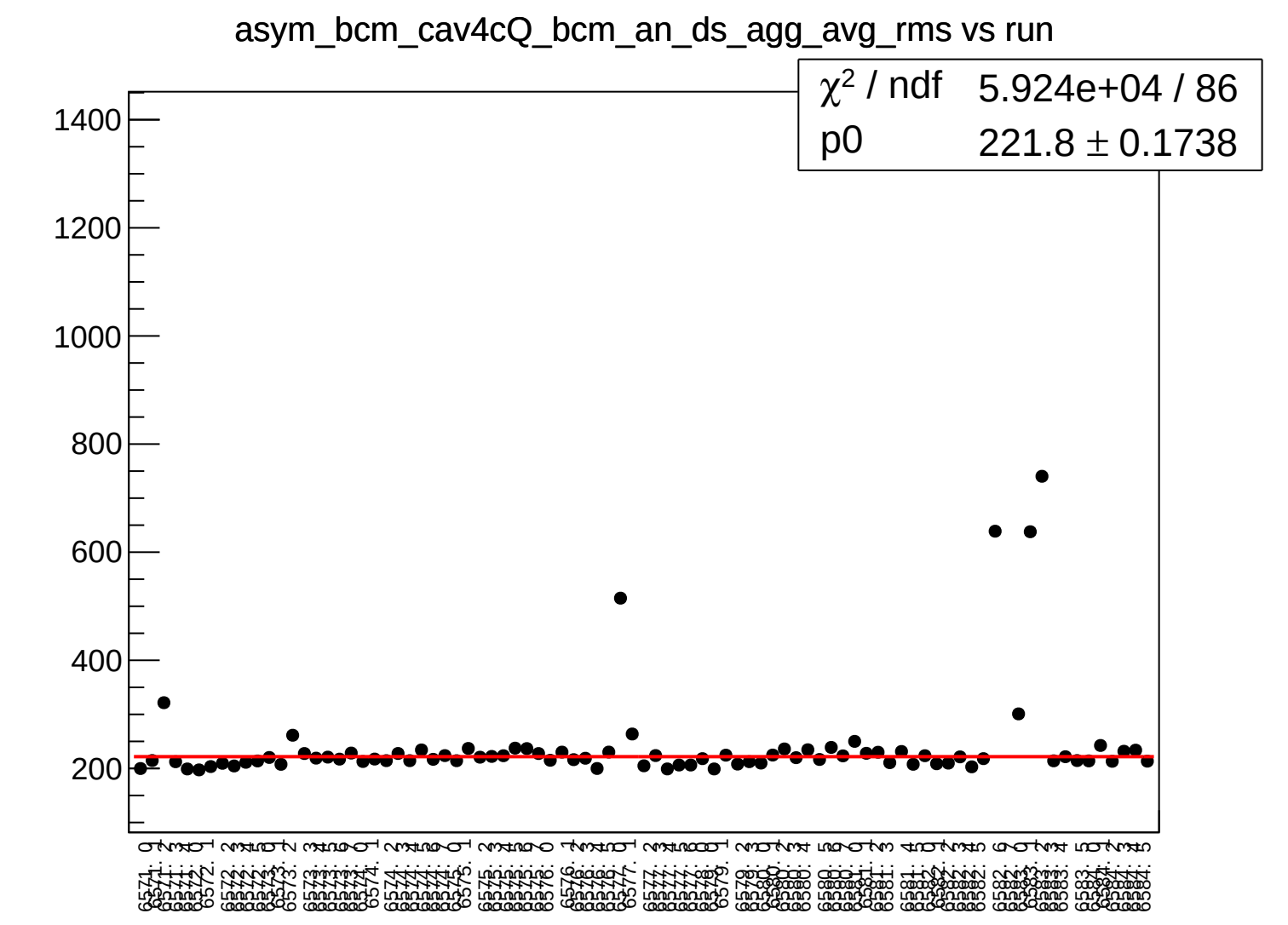

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.68 / 86
p0 133.2 ± 246.5
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 1442
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean −0.0001422
Std Dev 0.4379
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

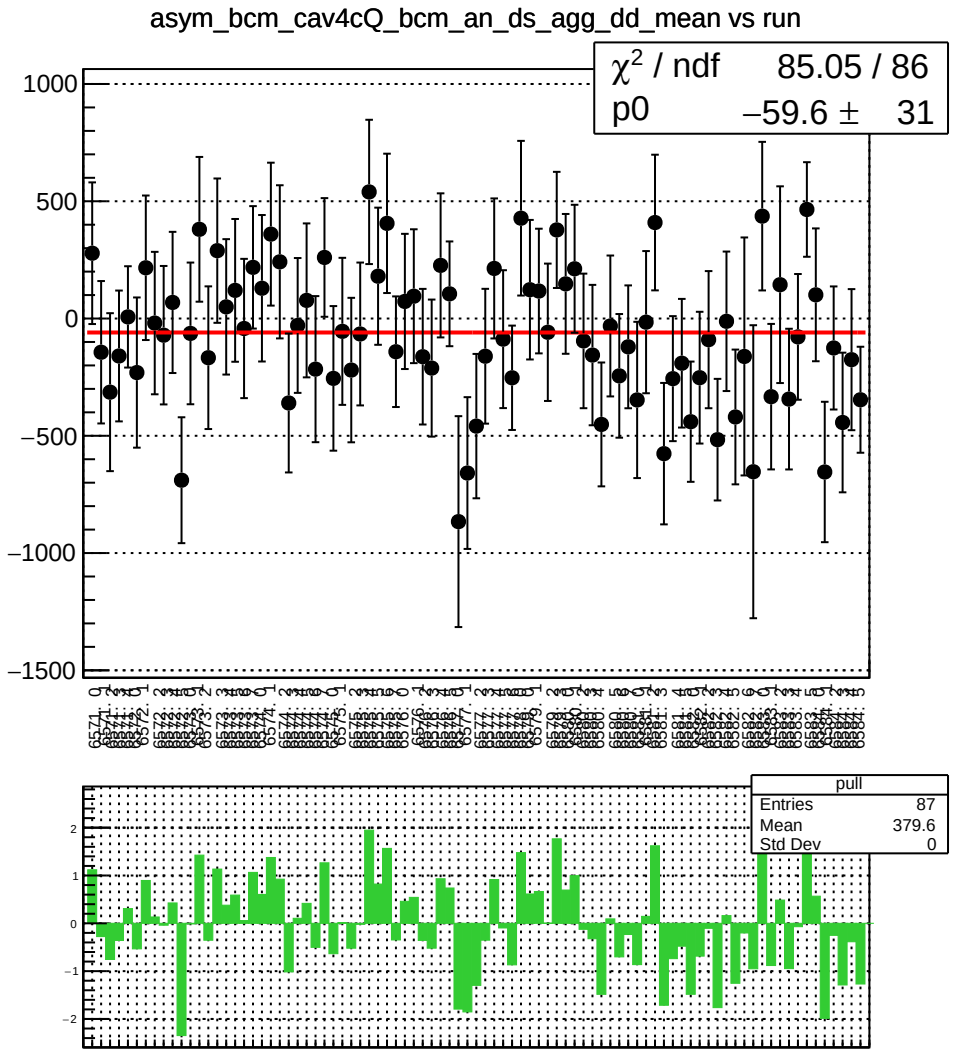

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5.923e+04 / 86
p0 222.3 ± 0.1743
1400
1200
1000
800
600
400
200

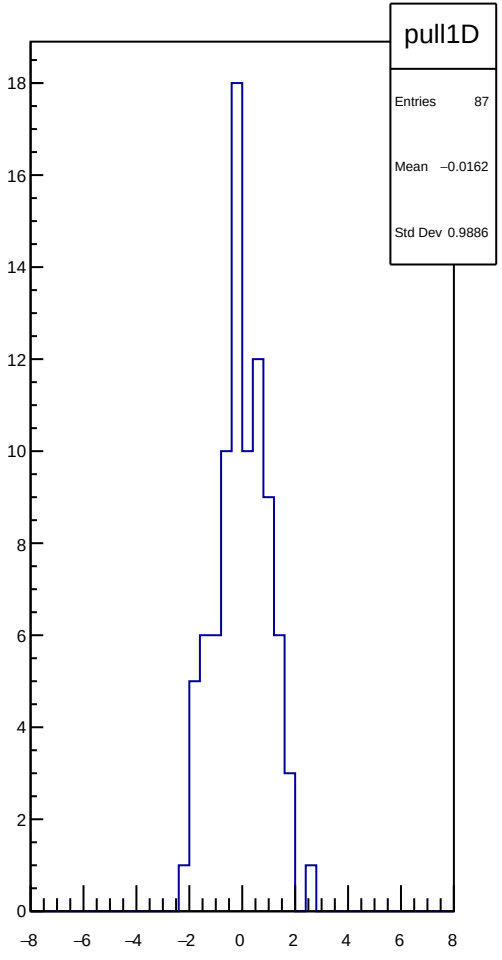

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 79.22 / 86
p0 −60.71 ± 31.01
1000
500
0
−500
−1000
pull
Entries 87
Mean 278.2
Std Dev 0
pull1D
Entries 87
Mean −0.01731
Std Dev 0.9541

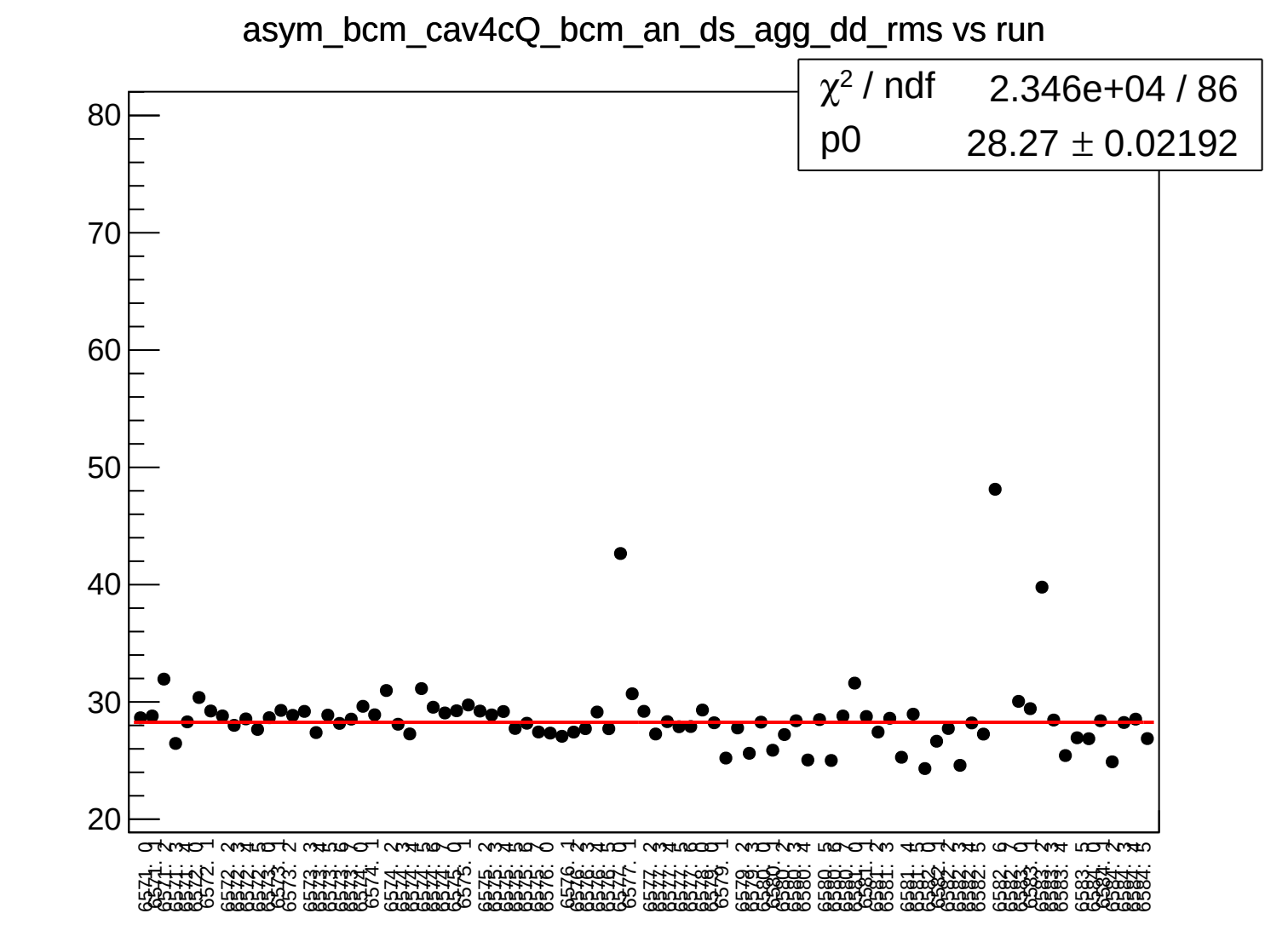

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2.428e+04 / 86
p0 28.27 ± 0.02193
80
70
60
50
40
30
20

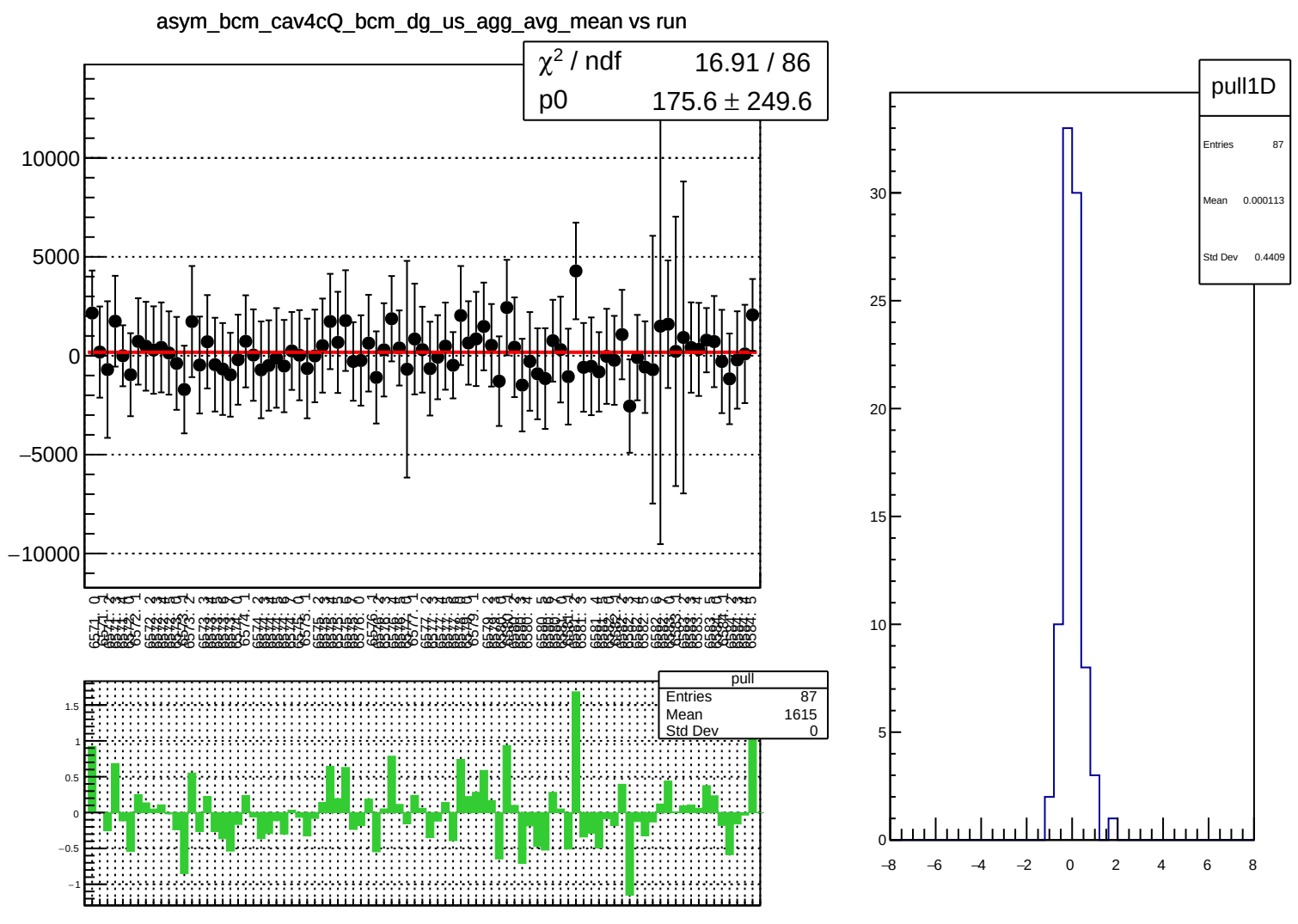

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.13 / 86
p0 129.4 ± 245.8
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 42.62
Std Dev 218.5
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.0002002
Std Dev 0.4438
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

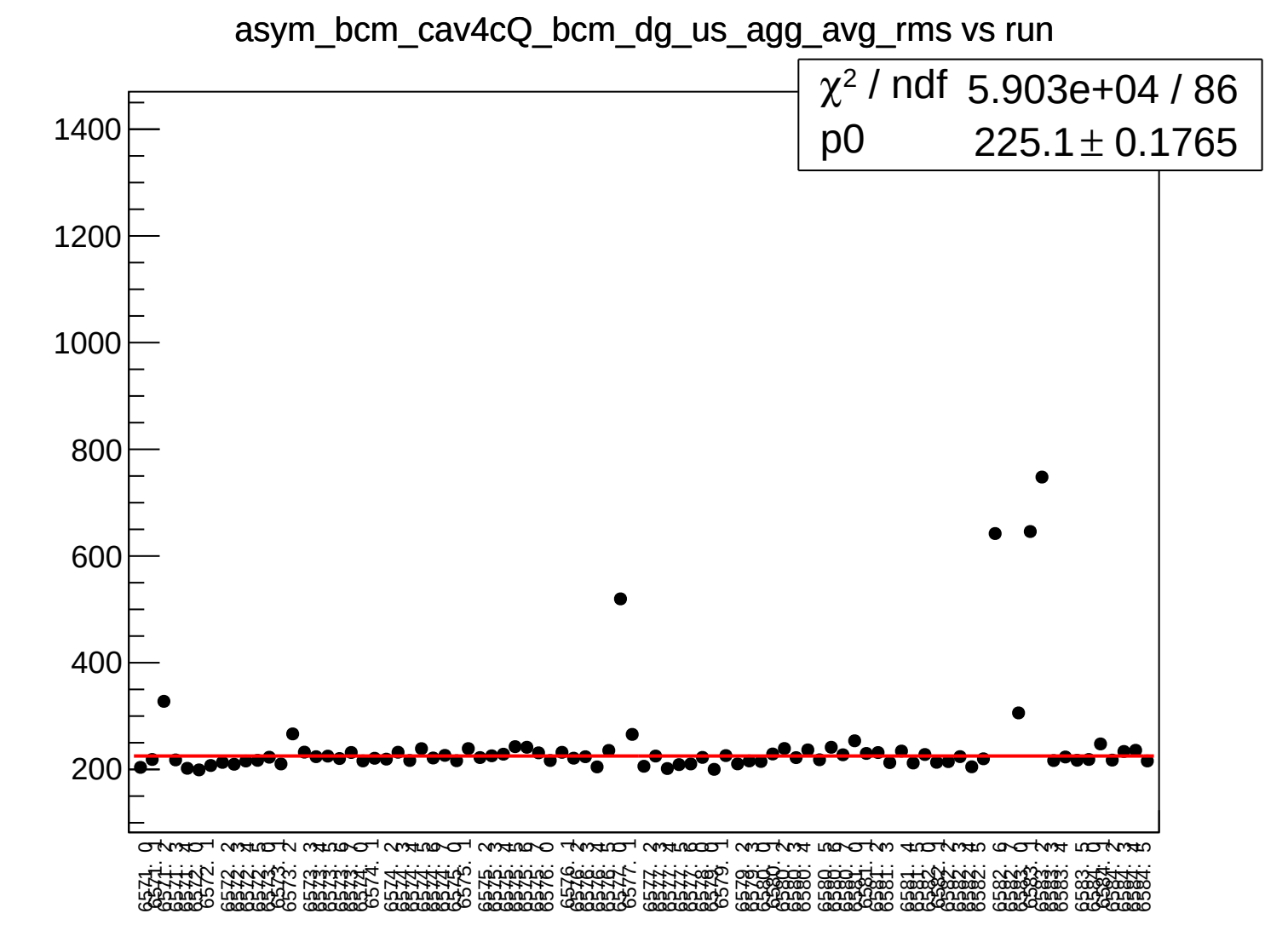

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5.924e+04 / 86
p0 221.8 ± 0.1738
1400
1200
1000
800
600
400
200

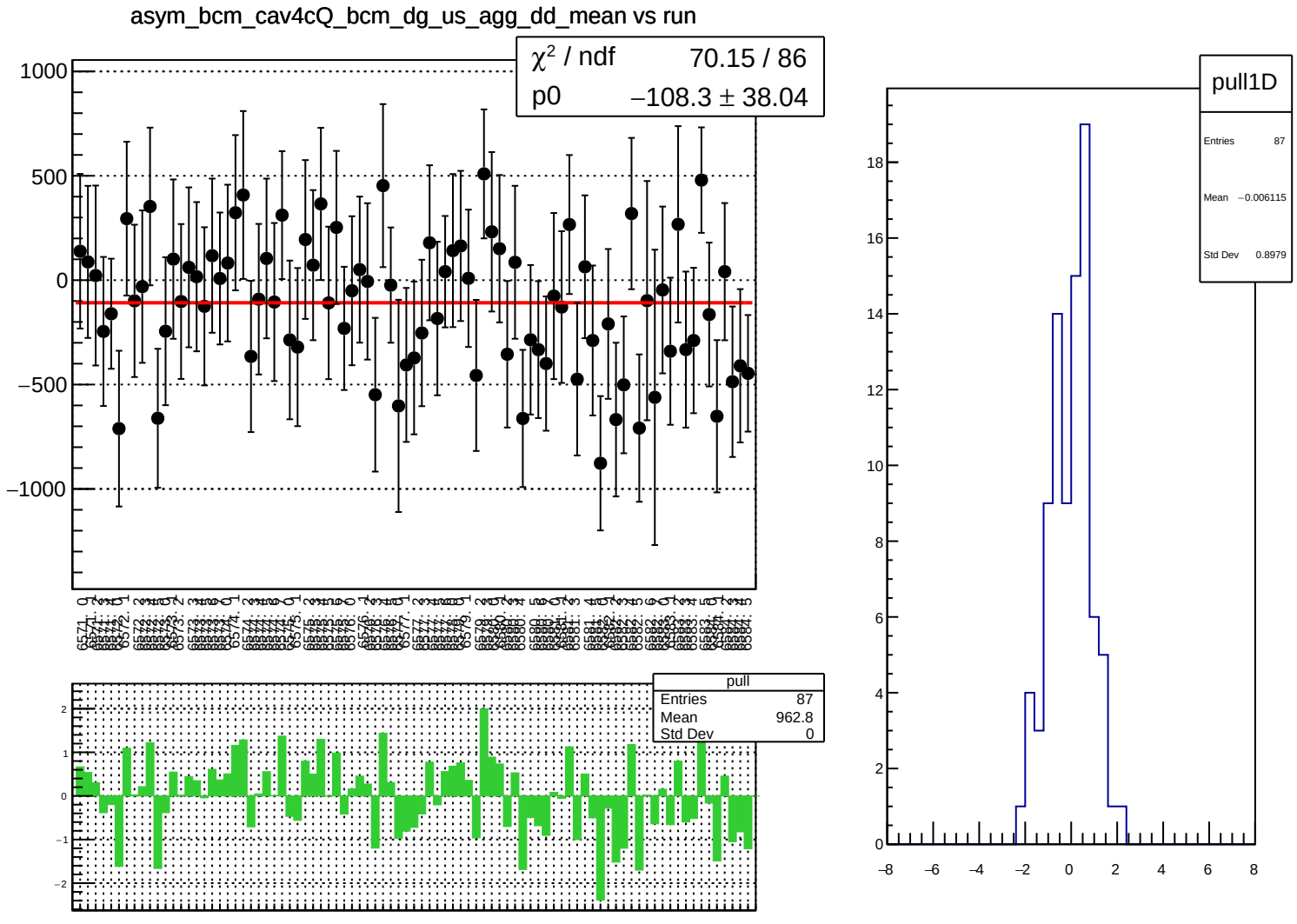

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.05 / 86
p0 −59.6 ± 31
pull
Entries 87
Mean 379.6
Std Dev 0

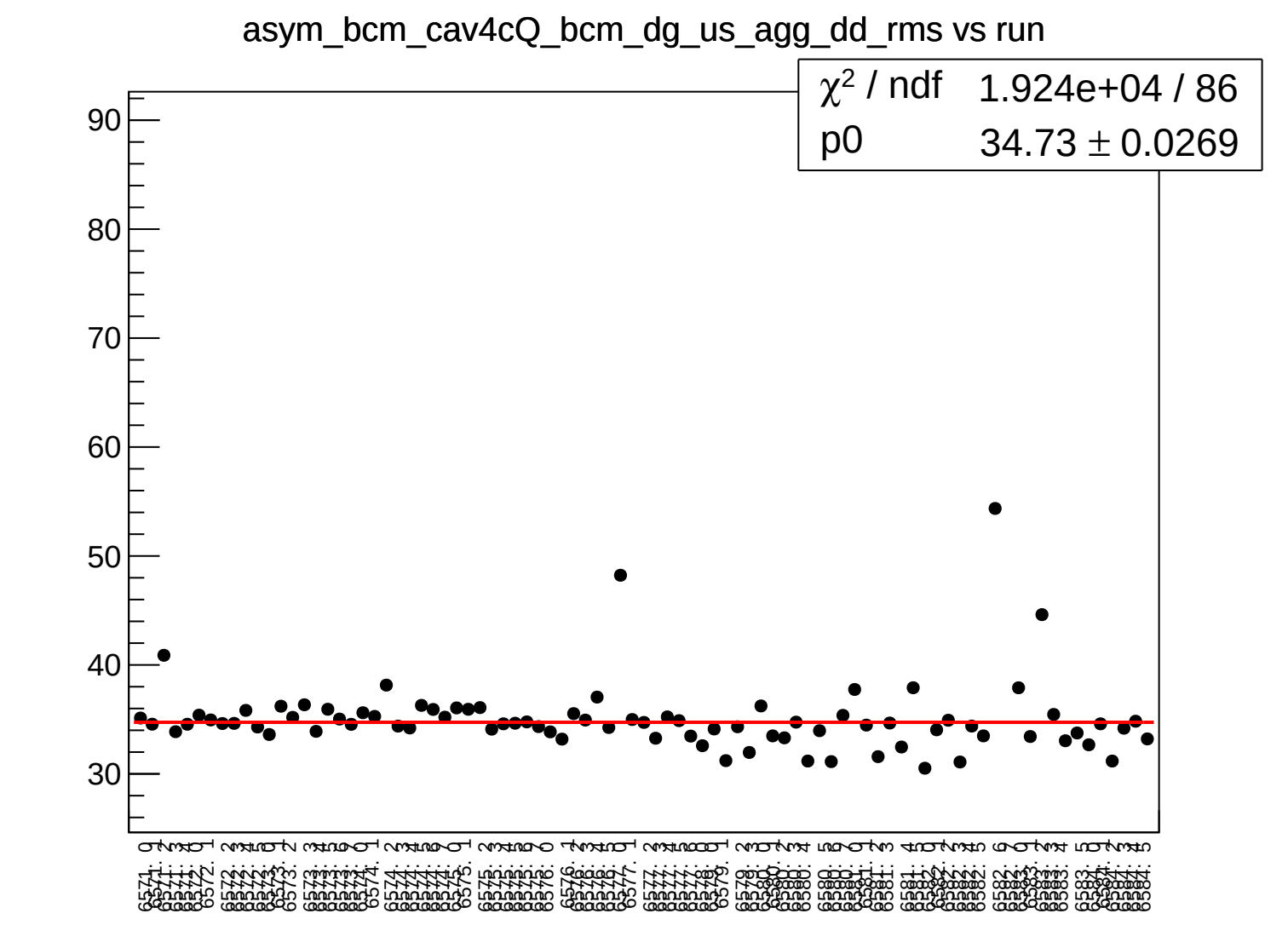

pull1D
Entries 87
Mean −0.0162
Std Dev 0.9886

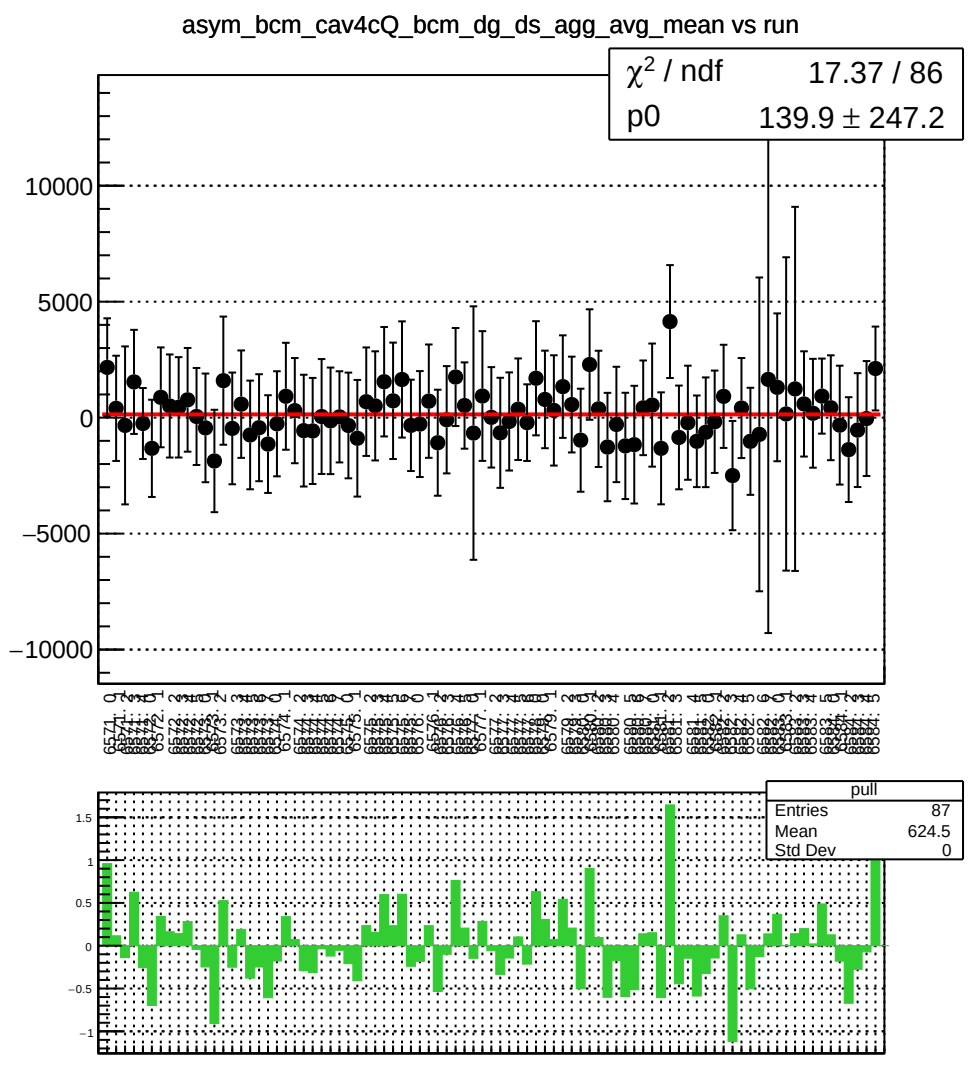

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.346e+04 / 86
p0 28.27 ± 0.02192
80
70
60
50
40
30
20

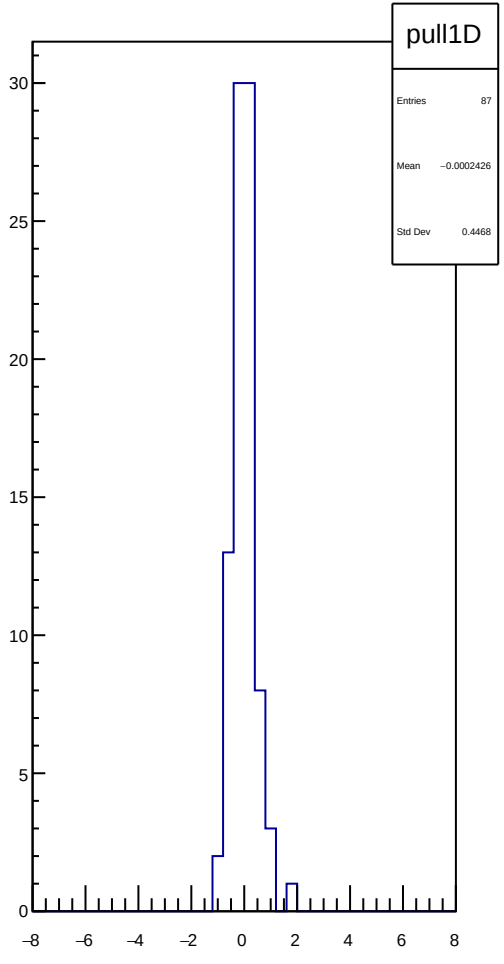

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 16.91 / 86
p0 175.6 ± 249.6
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 1615
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.000113
Std Dev 0.4409
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

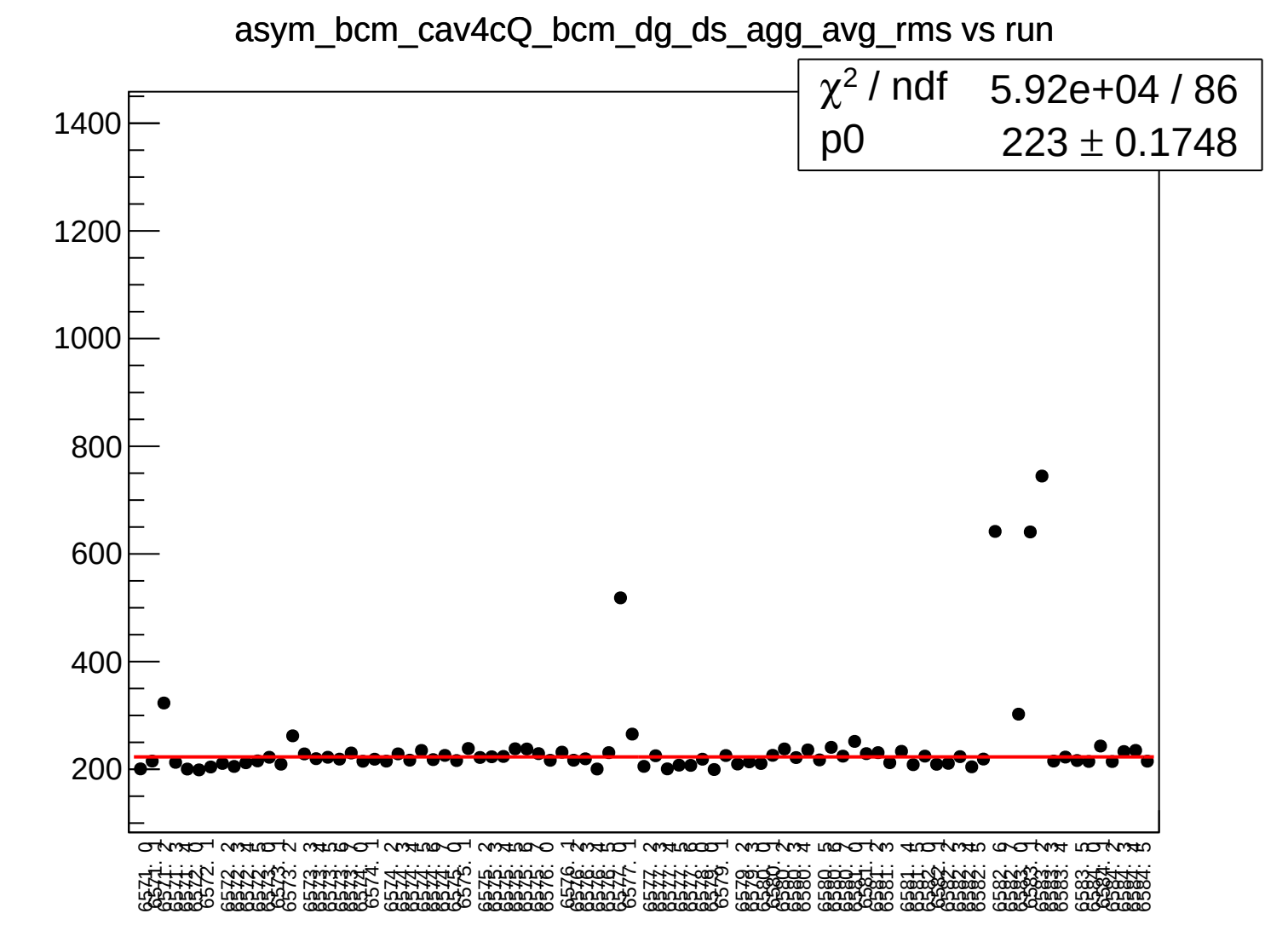

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 5.903e+04 / 86
p0 225.1 ± 0.1765
1400
1200
1000
800
600
400
200

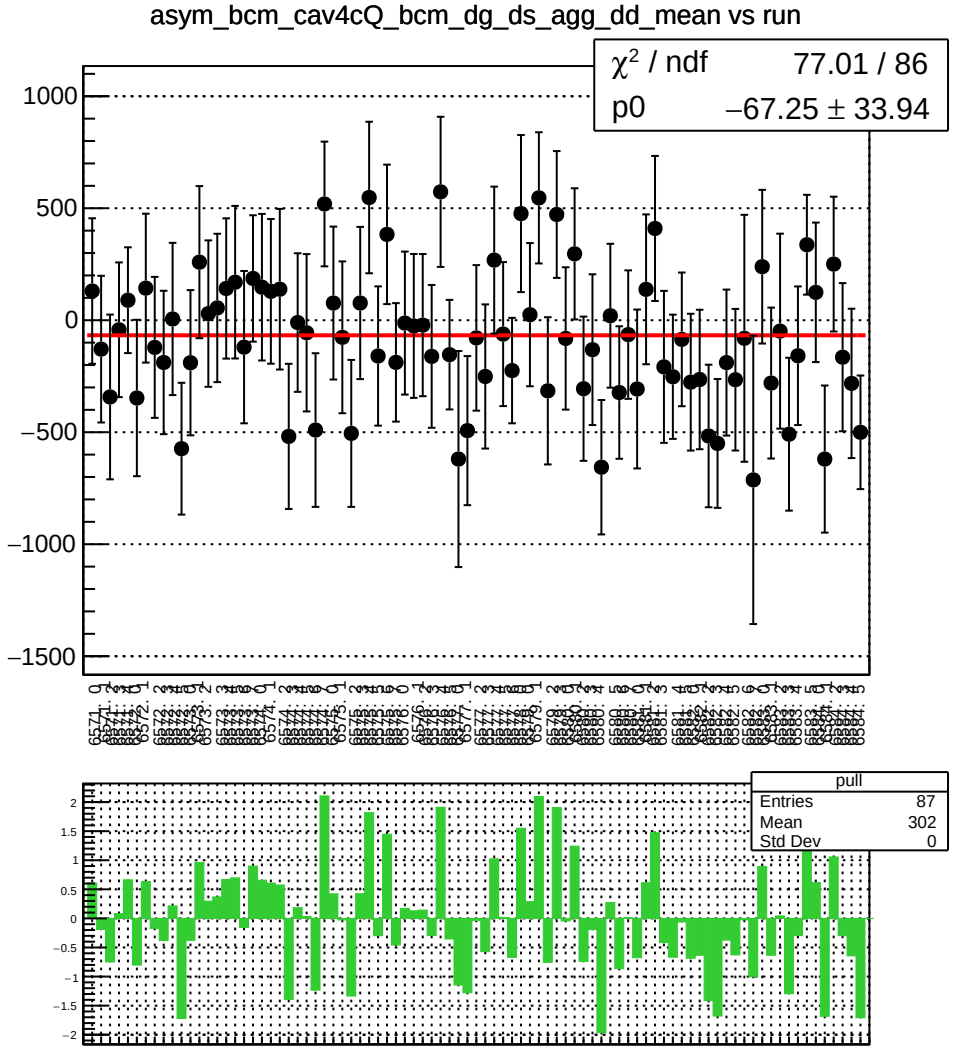

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.15 / 86
p0 −108.3 ± 38.04
1000
500
0
−500
−1000
pull
Entries 87
Mean 962.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.006115
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

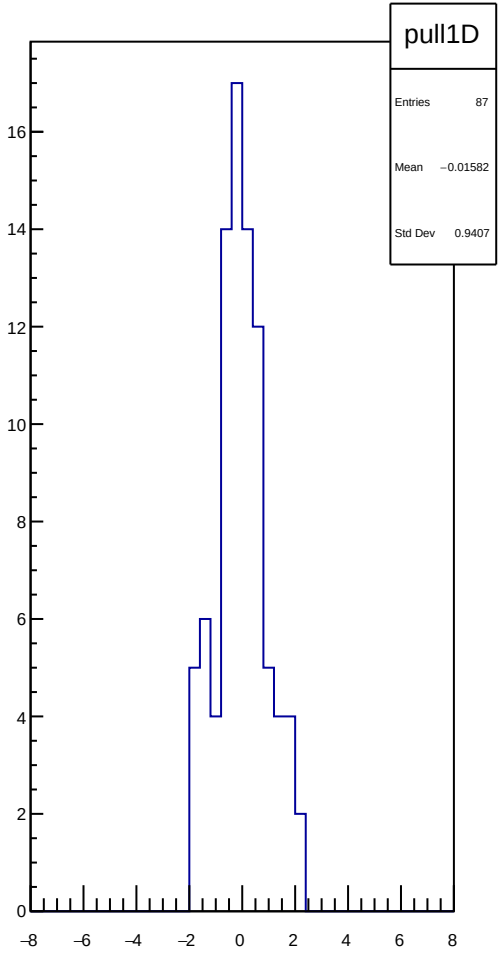

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1.924e+04 / 86
p0 34.73 ± 0.0269
90
80
70
60
50
40
30

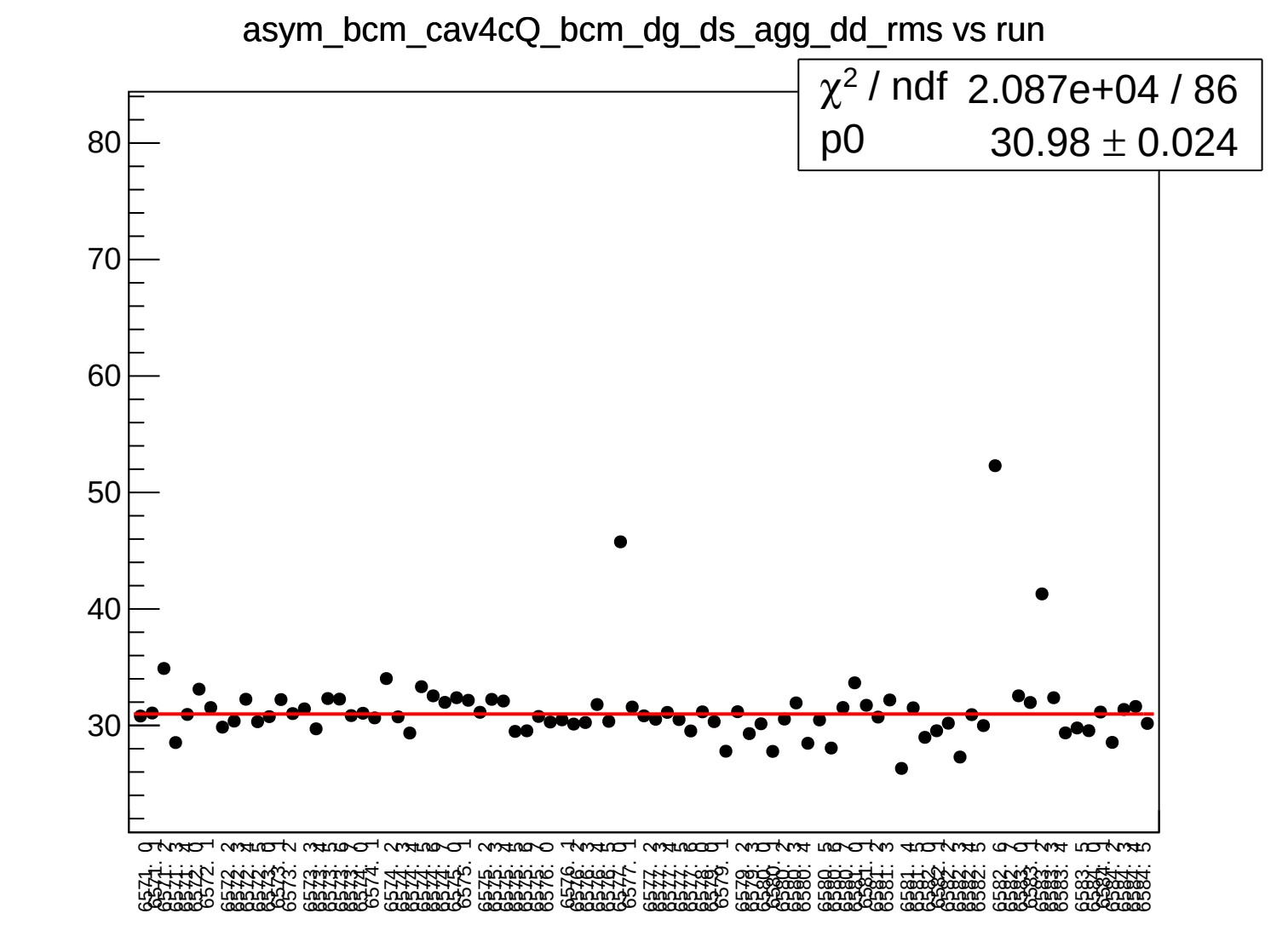

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 17.37 / 86
p0 139.9 ± 247.2
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 624.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

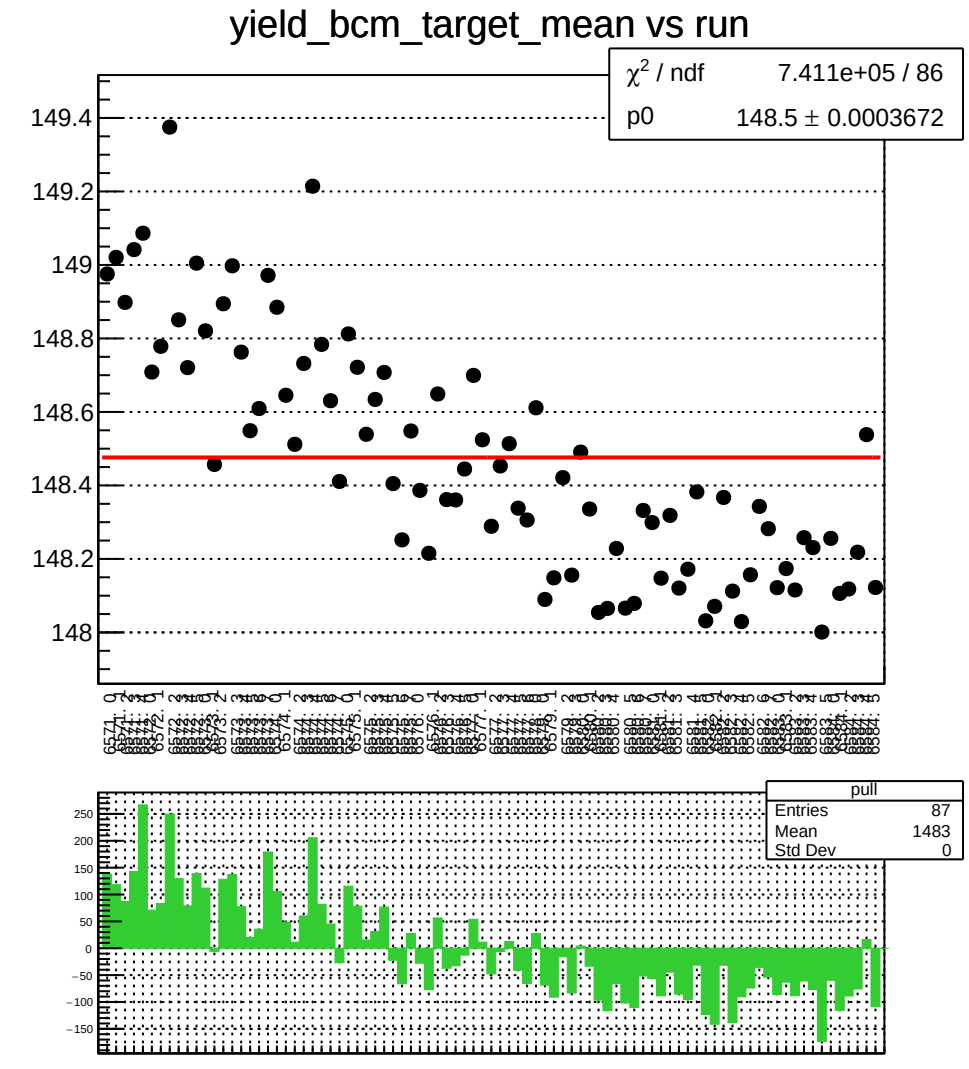

pull1D
Entries 87
Mean −0.0002426
Std Dev 0.4468
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

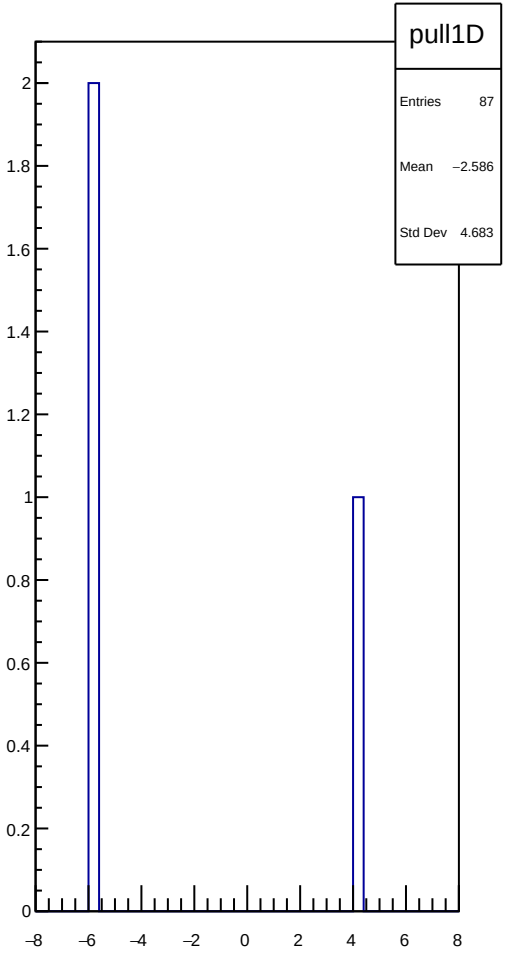

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5.92e+04 / 86
p0 223 ± 0.1748
1400
1200
1000
800
600
400
200

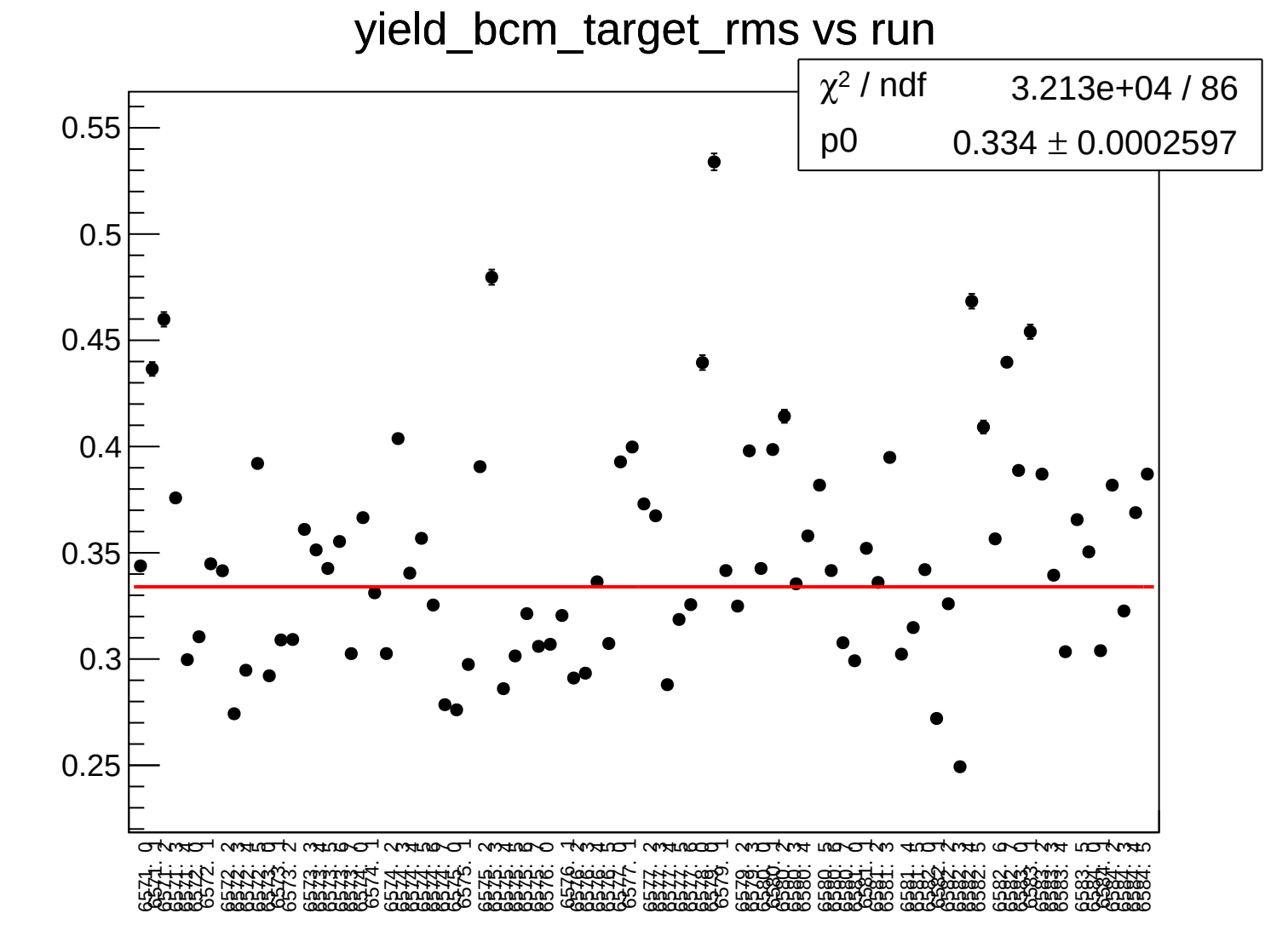

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 77.01 / 86
p0 −67.25 ± 33.94
pull
Entries 87
Mean 302
Std Dev 0

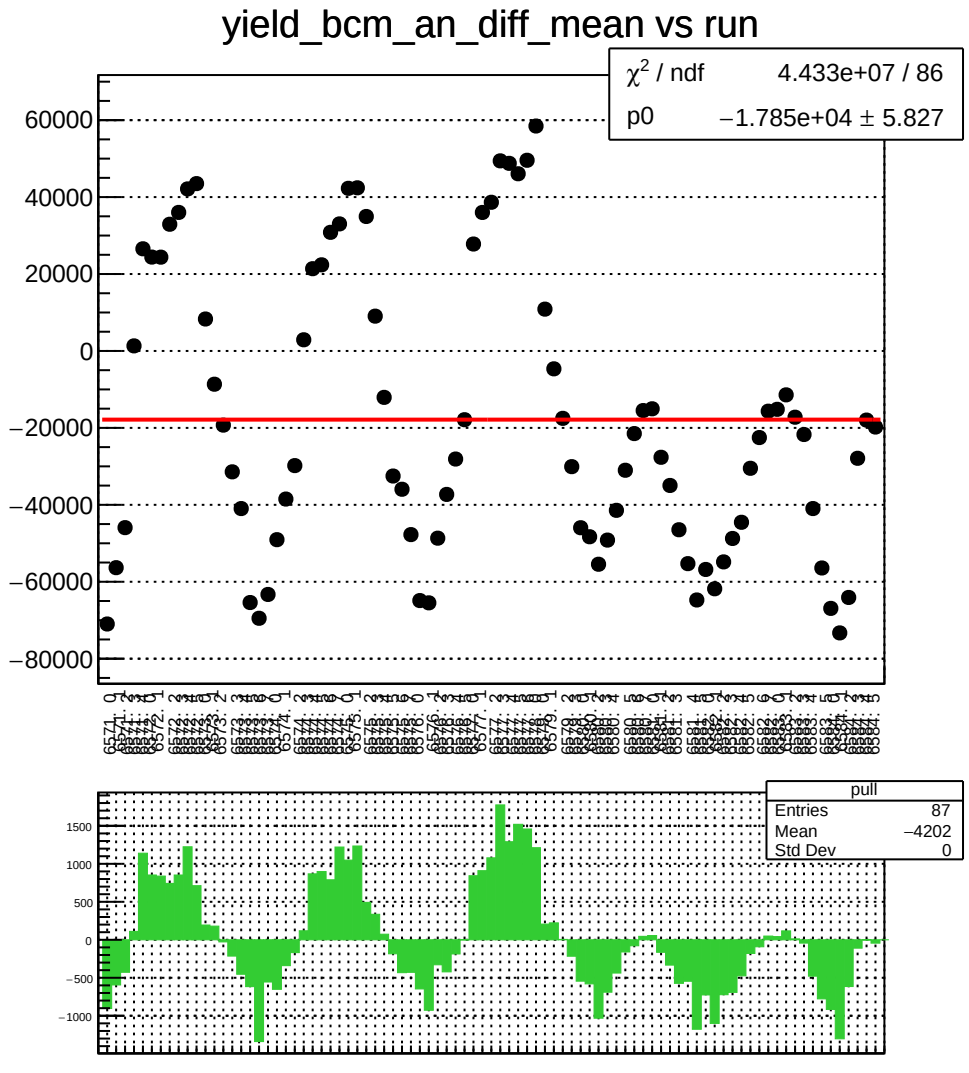

pull1D
Entries 87
Mean −0.01582
Std Dev 0.9407

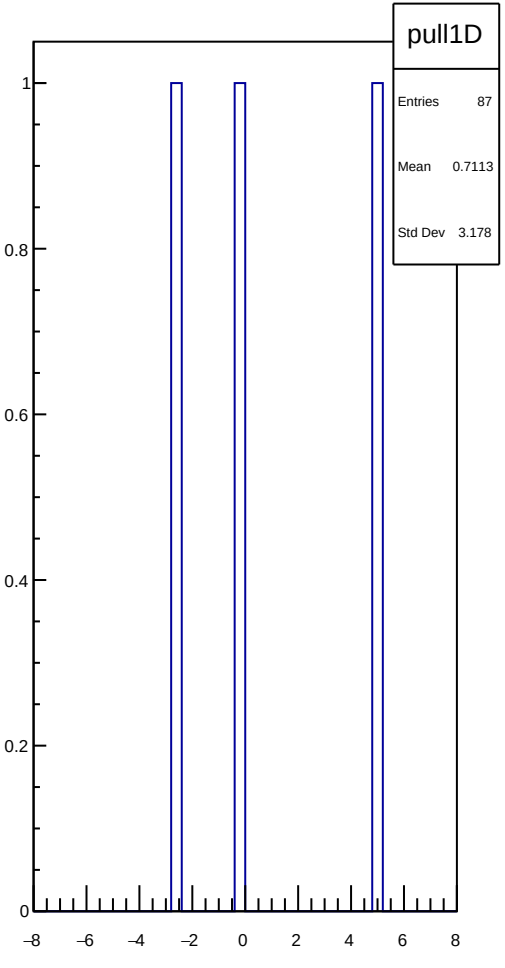

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2.087e+04 / 86
p0 30.98 ± 0.024
80
70
60
50
40
30

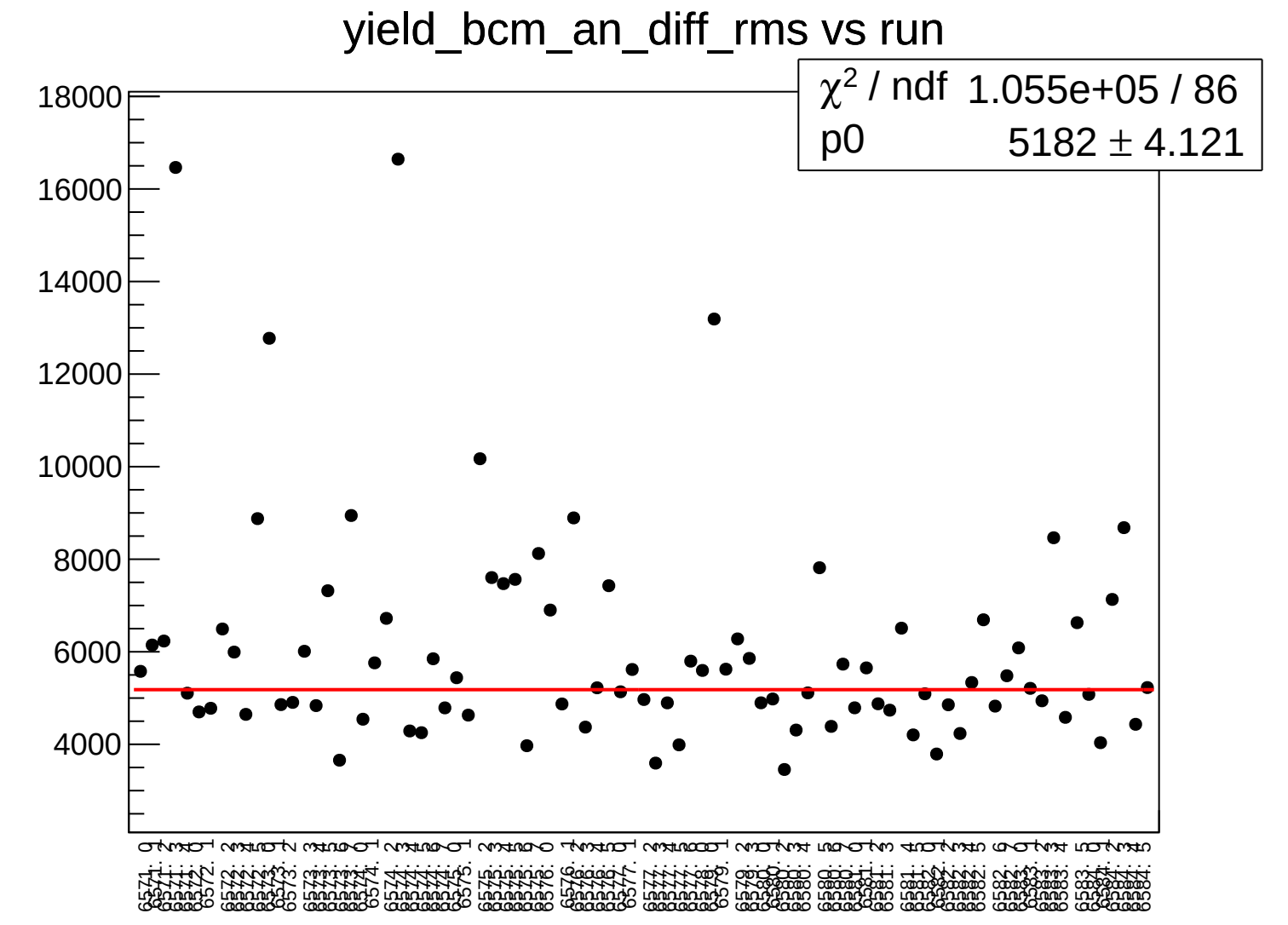

yield_bcm_target_mean vs run
χ² / ndf 7.411e+05 / 86
p0 148.5 ± 0.0003672
149.4
149.2
149
148.8
148.6
148.4
148.2
148
pull
Entries 87
Mean 1483
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

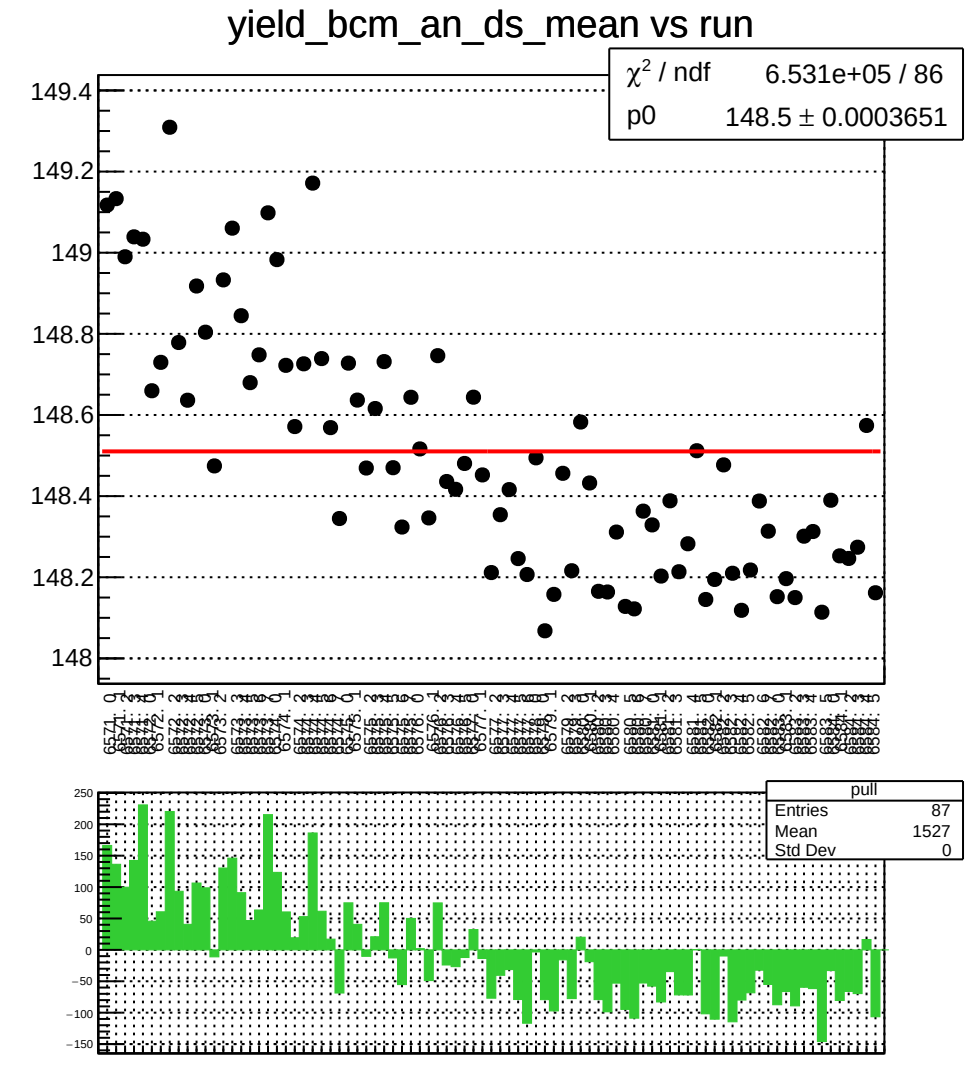

pull1D
Entries 87
Mean −2.586
Std Dev 4.683
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

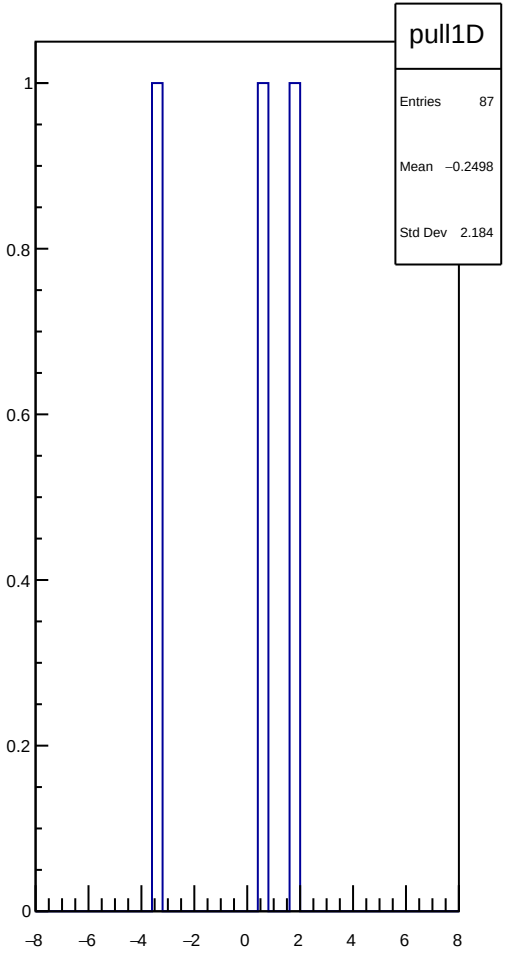

yield_bcm_target_rms vs run
χ² / ndf 3.213e+04 / 86
p0 0.334 ± 0.0002597
0.55
0.5
0.45
0.4
0.35
0.3
0.25

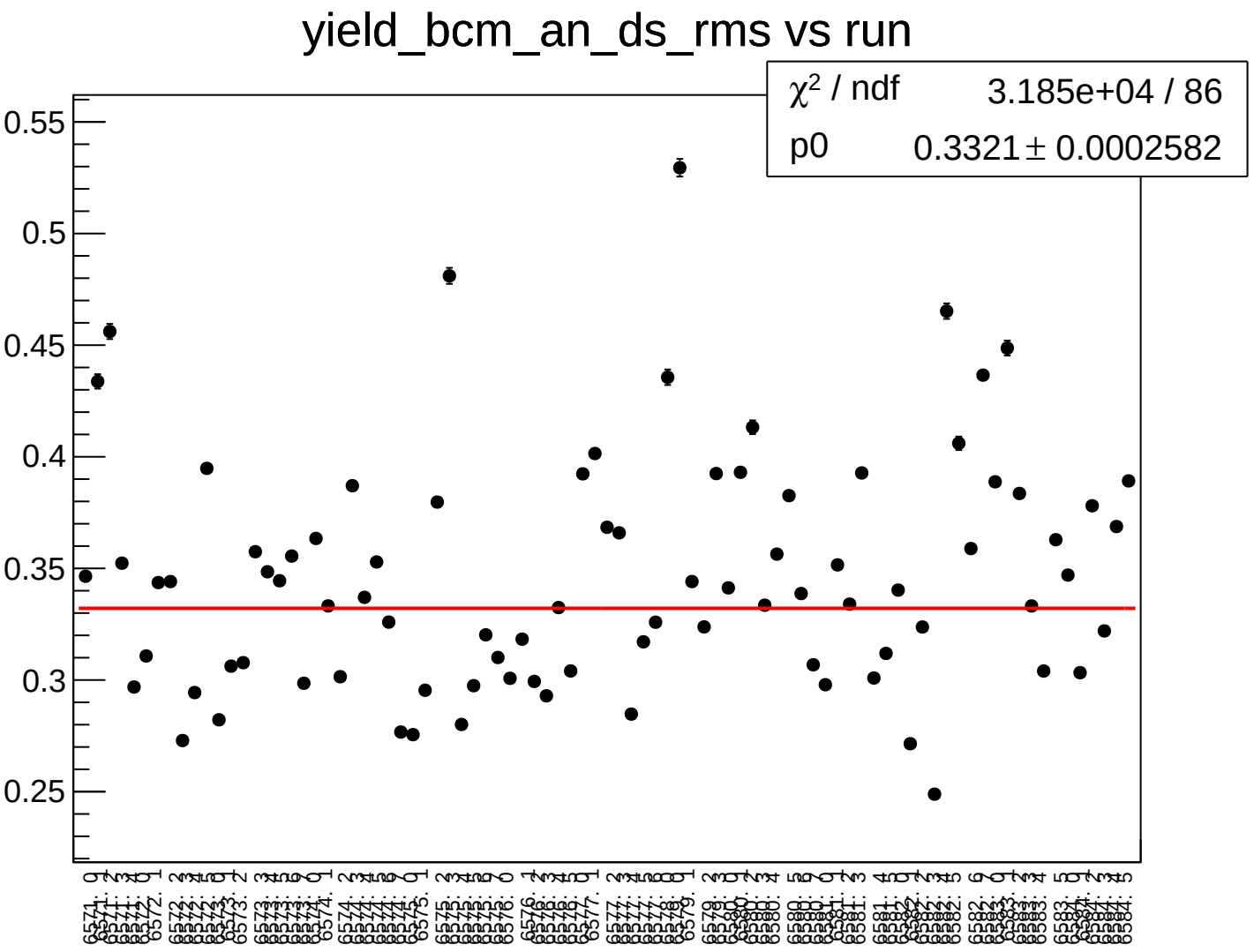

yield_bcm_an_diff_mean vs run
χ² / ndf 4.433e+07 / 86
p0 −1.785e+04 ± 5.827
pull
Entries 87
Mean −4202
Std Dev 0

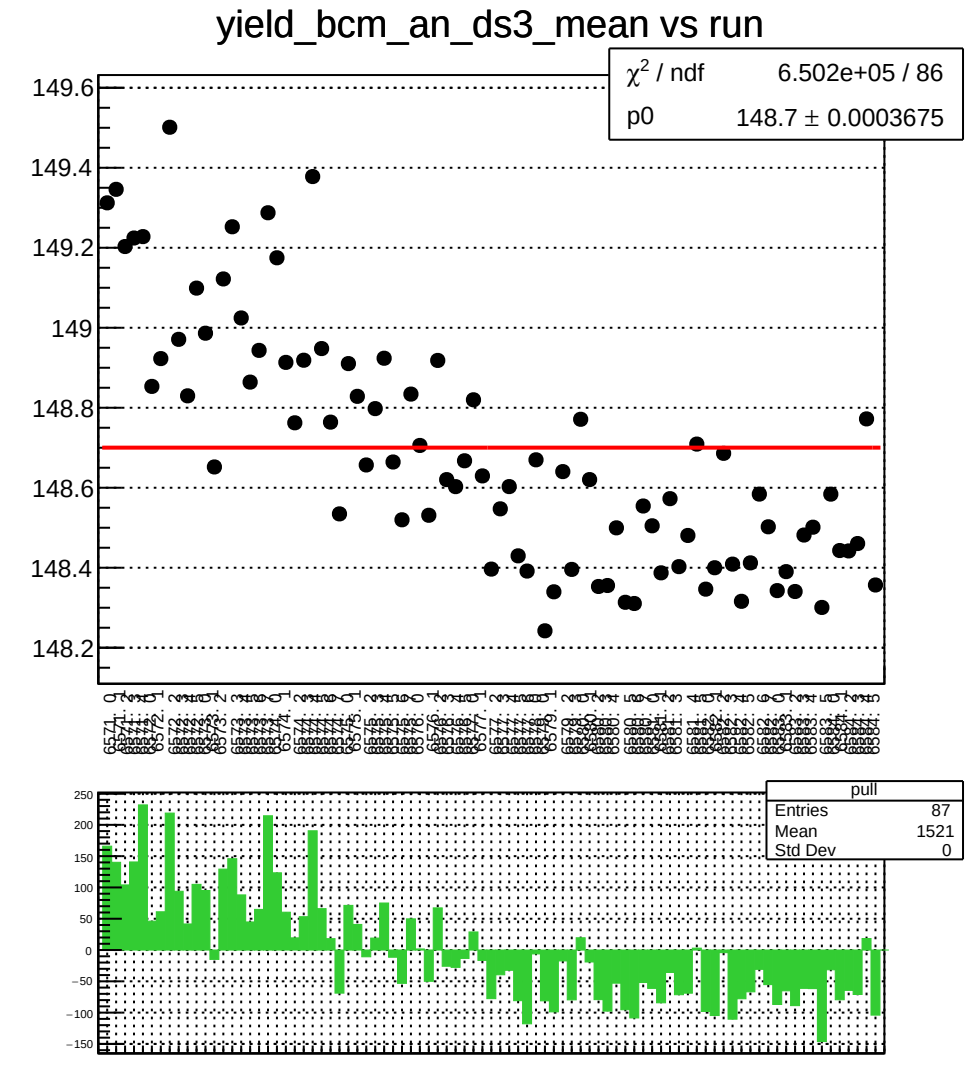

pull1D
Entries 87
Mean 0.7113
Std Dev 3.178

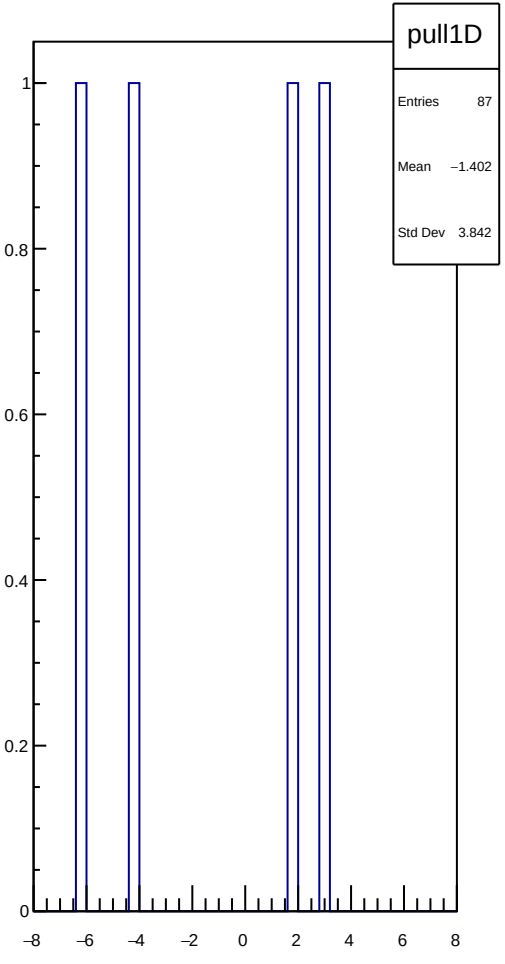

yield_bcm_an_diff_rms vs run
χ² / ndf 1.055e+05 / 86
p0 5182 ± 4.121
18000
16000
14000
12000
10000
8000
6000
4000

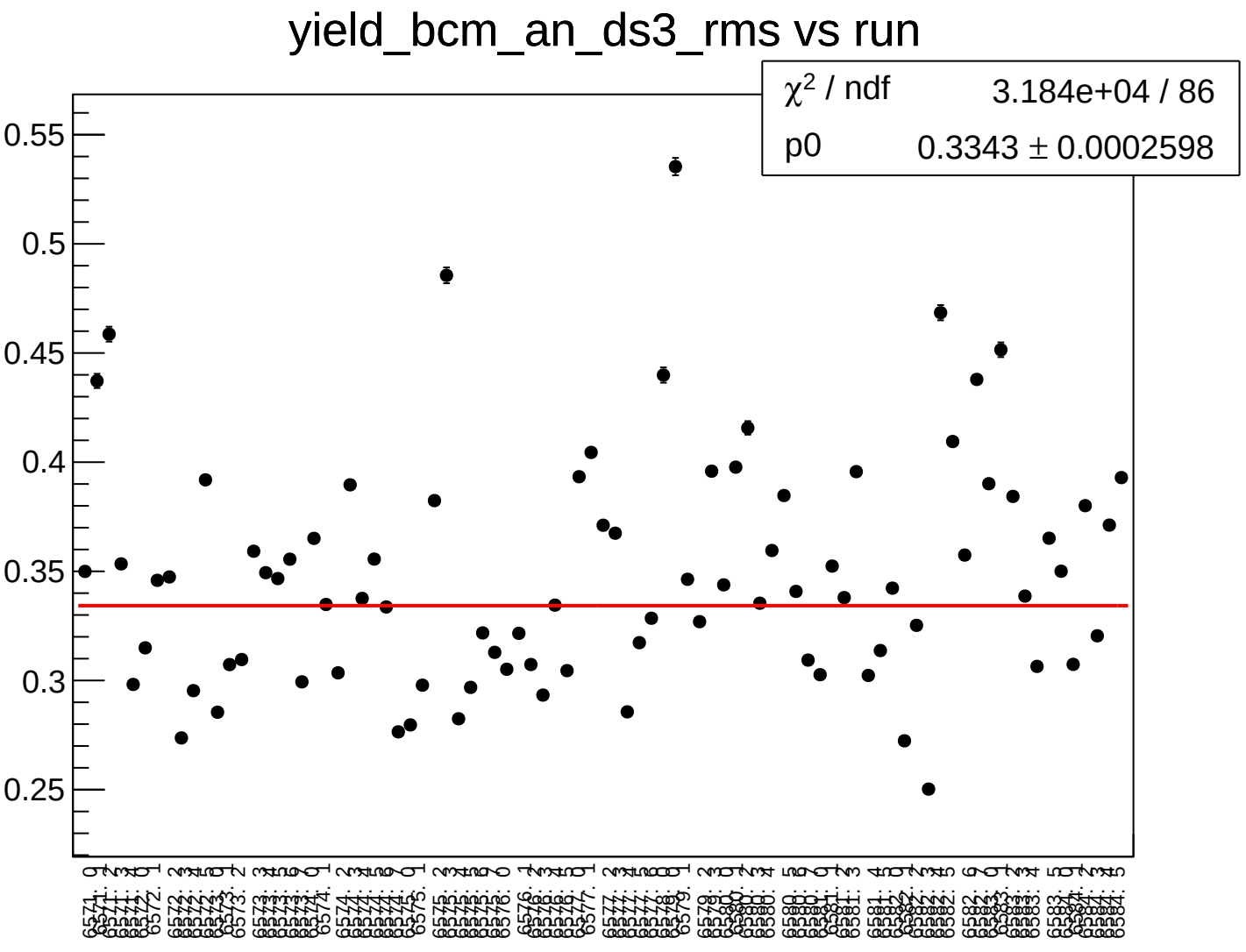

yield_bcm_an_ds_mean vs run
χ² / ndf 6.531e+05 / 86
p0 148.5 ± 0.0003651
149.4
149.2
149
148.8
148.6
148.4
148.2
148
pull
Entries 87
Mean 1527
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

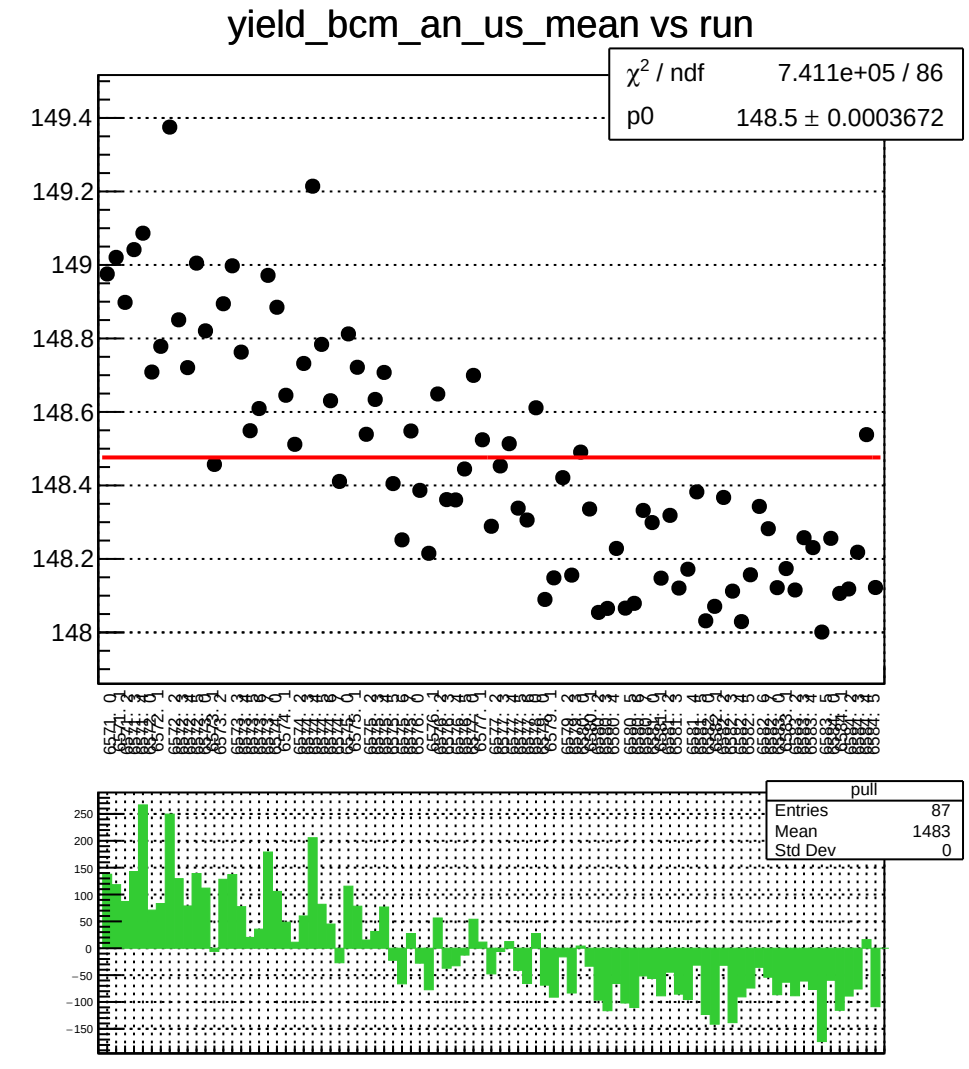

pull1D
Entries 87
Mean −0.2498
Std Dev 2.184
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

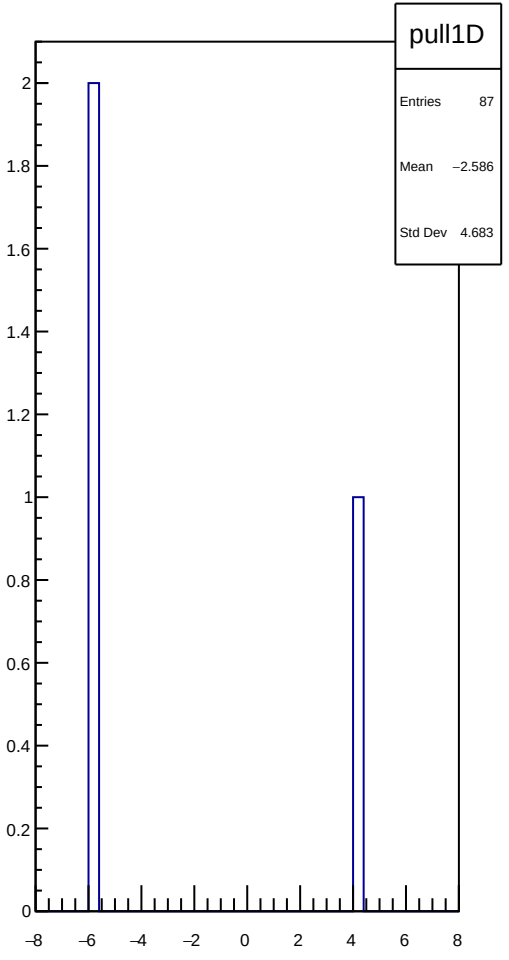

yield_bcm_an_ds_rms vs run
χ² / ndf 3.185e+04 / 86
p0 0.3321 ± 0.0002582
0.55
0.5
0.45
0.4
0.35
0.3
0.25

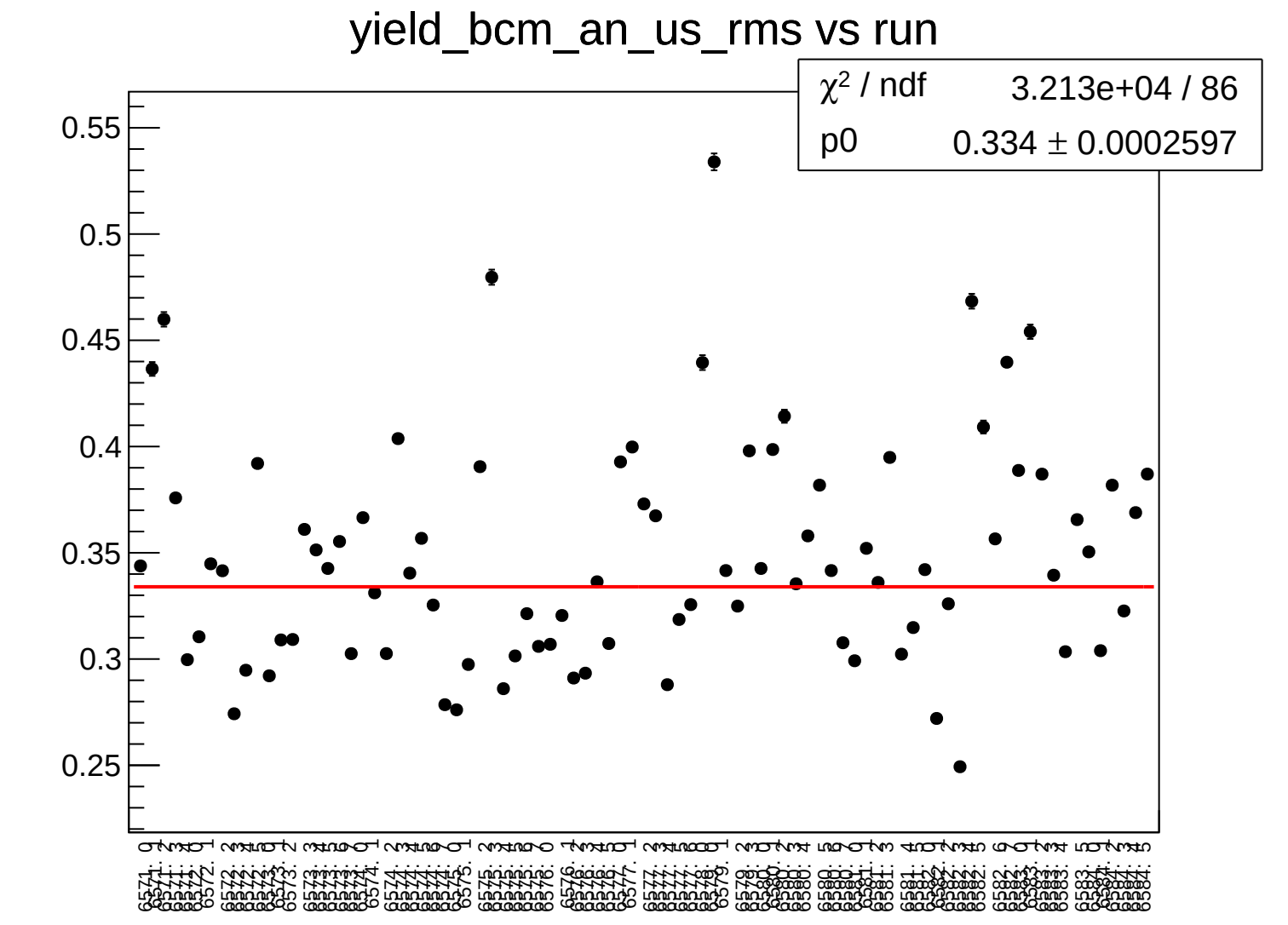

yield_bcm_an_ds3_mean vs run
χ² / ndf 6.502e+05 / 86
p0 148.7 ± 0.0003675
149.6
149.4
149.2
149
148.8
148.6
148.4
148.2
pull
Entries 87
Mean 1521
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

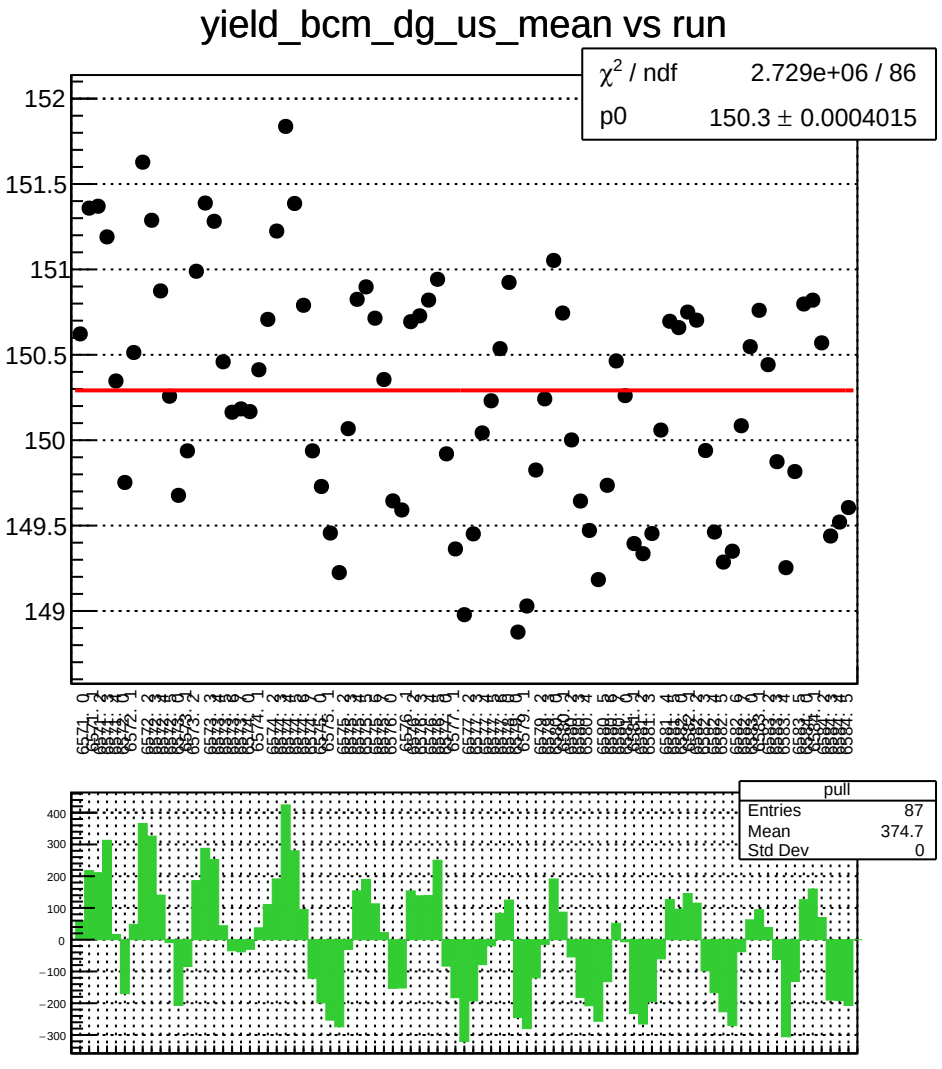

pull1D
Entries 87
Mean −1.402
Std Dev 3.842
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

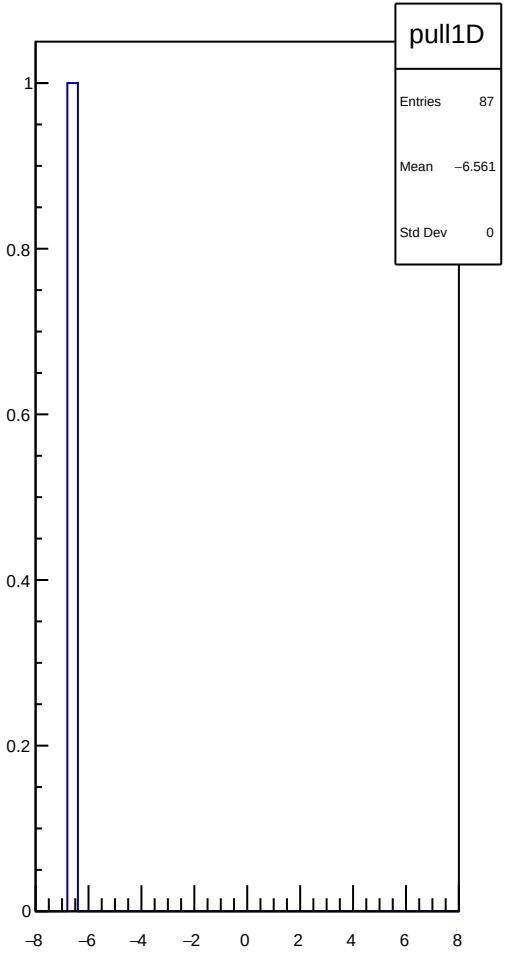

yield_bcm_an_ds3_rms vs run
χ² / ndf 3.184e+04 / 86
p0 0.3343 ± 0.0002598
0.55
0.5
0.45
0.4
0.35
0.3
0.25

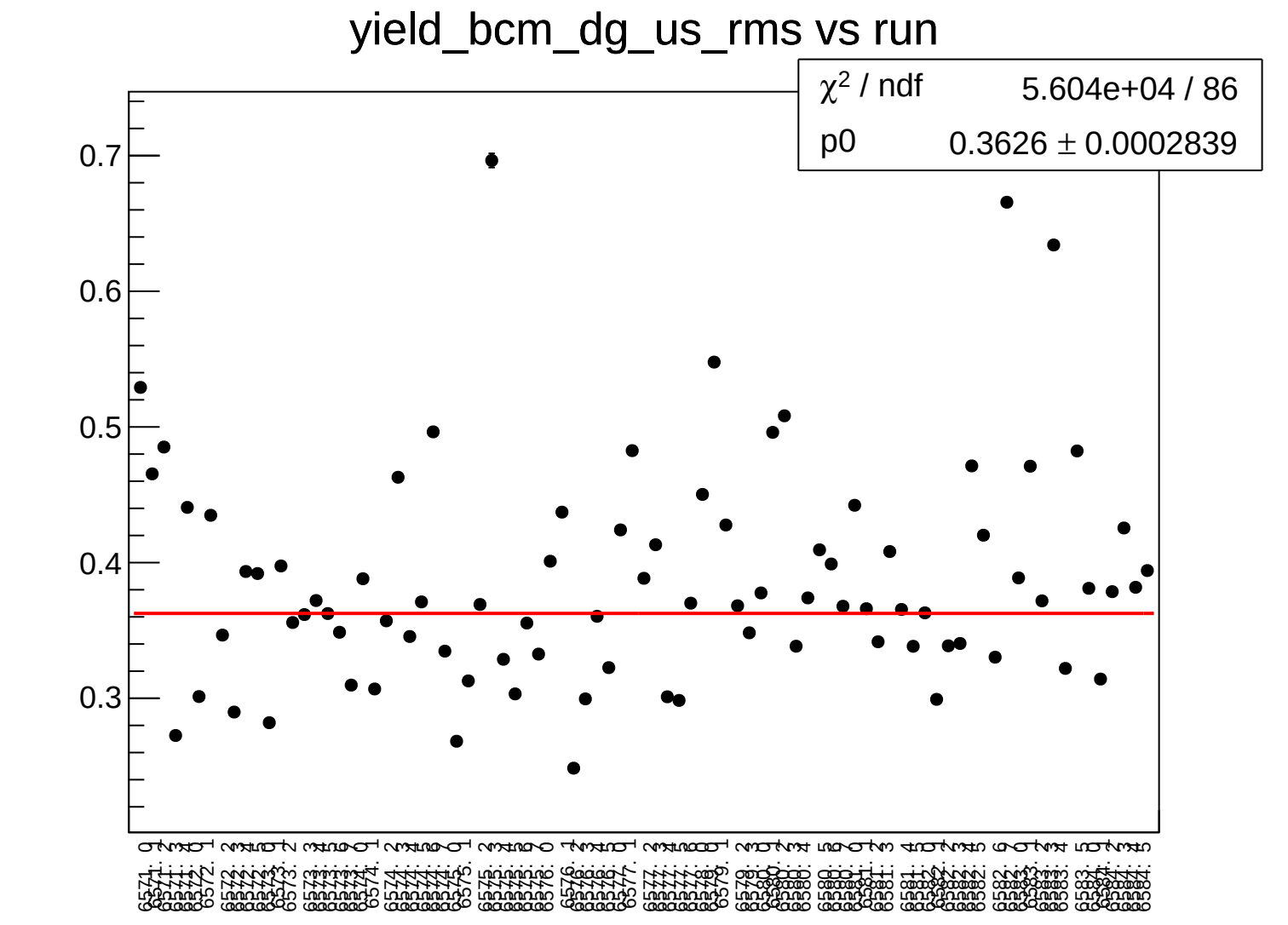

yield_bcm_an_us_mean vs run
χ² / ndf 7.411e+05 / 86
p0 148.5 ± 0.0003672
149.4
149.2
149
148.8
148.6
148.4
148.2
148
pull
Entries 87
Mean 1483
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

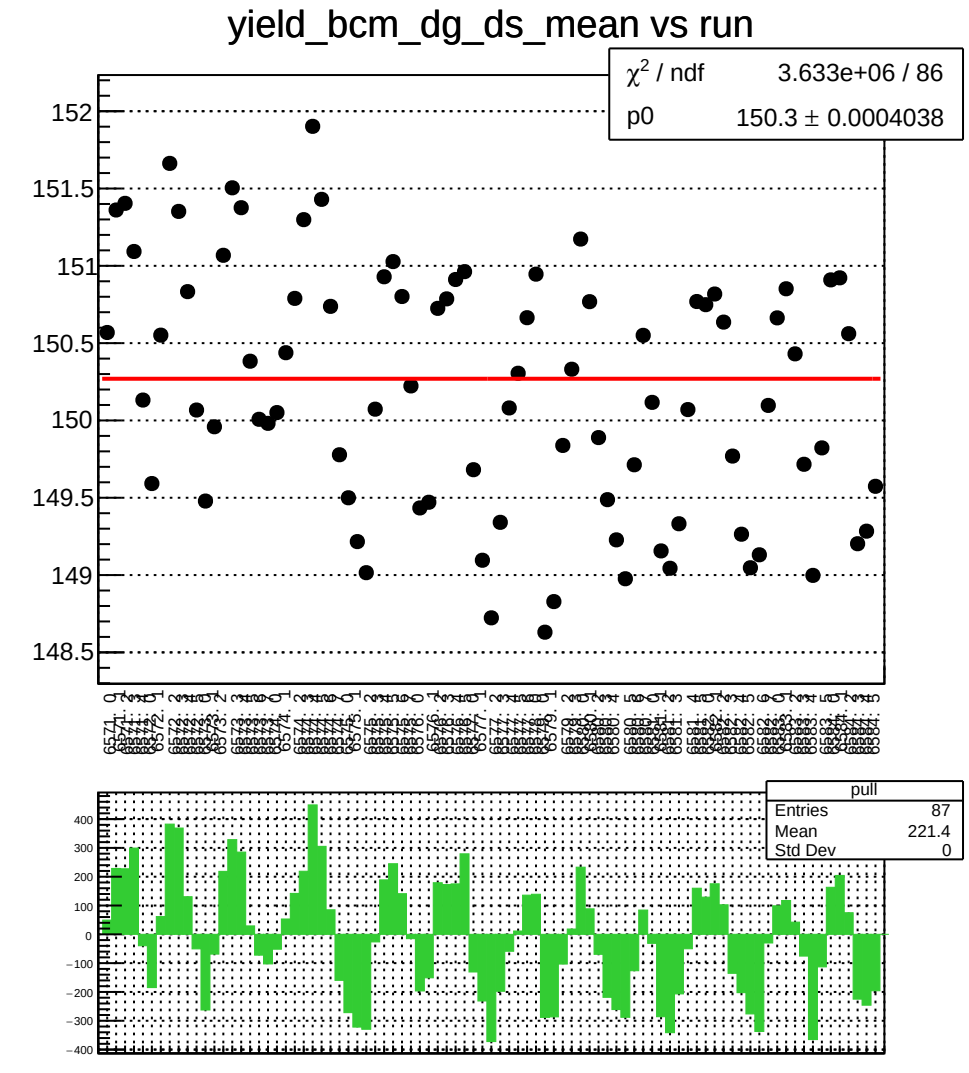

pull1D
Entries 87
Mean −2.586
Std Dev 4.683
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

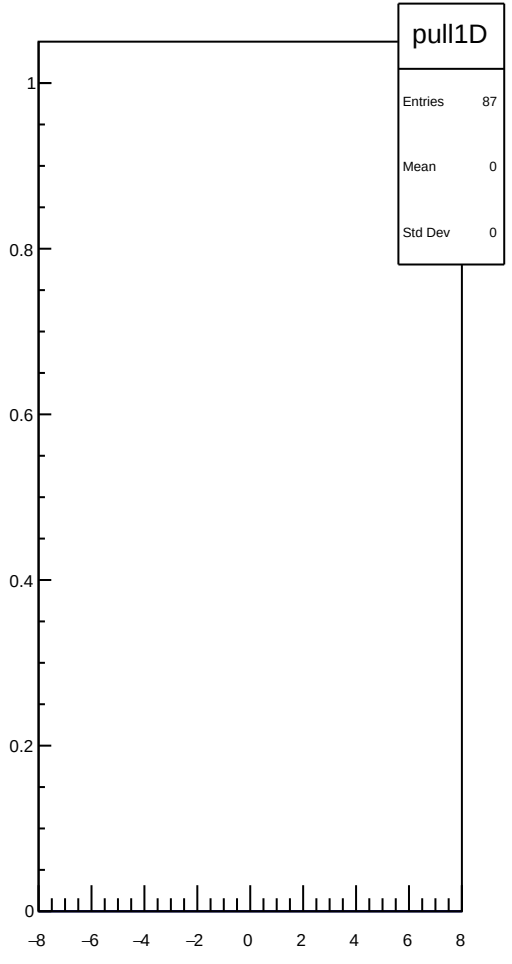

yield_bcm_an_us_rms vs run
χ² / ndf 3.213e+04 / 86
p0 0.334 ± 0.0002597
0.55
0.5
0.45
0.4
0.35
0.3
0.25

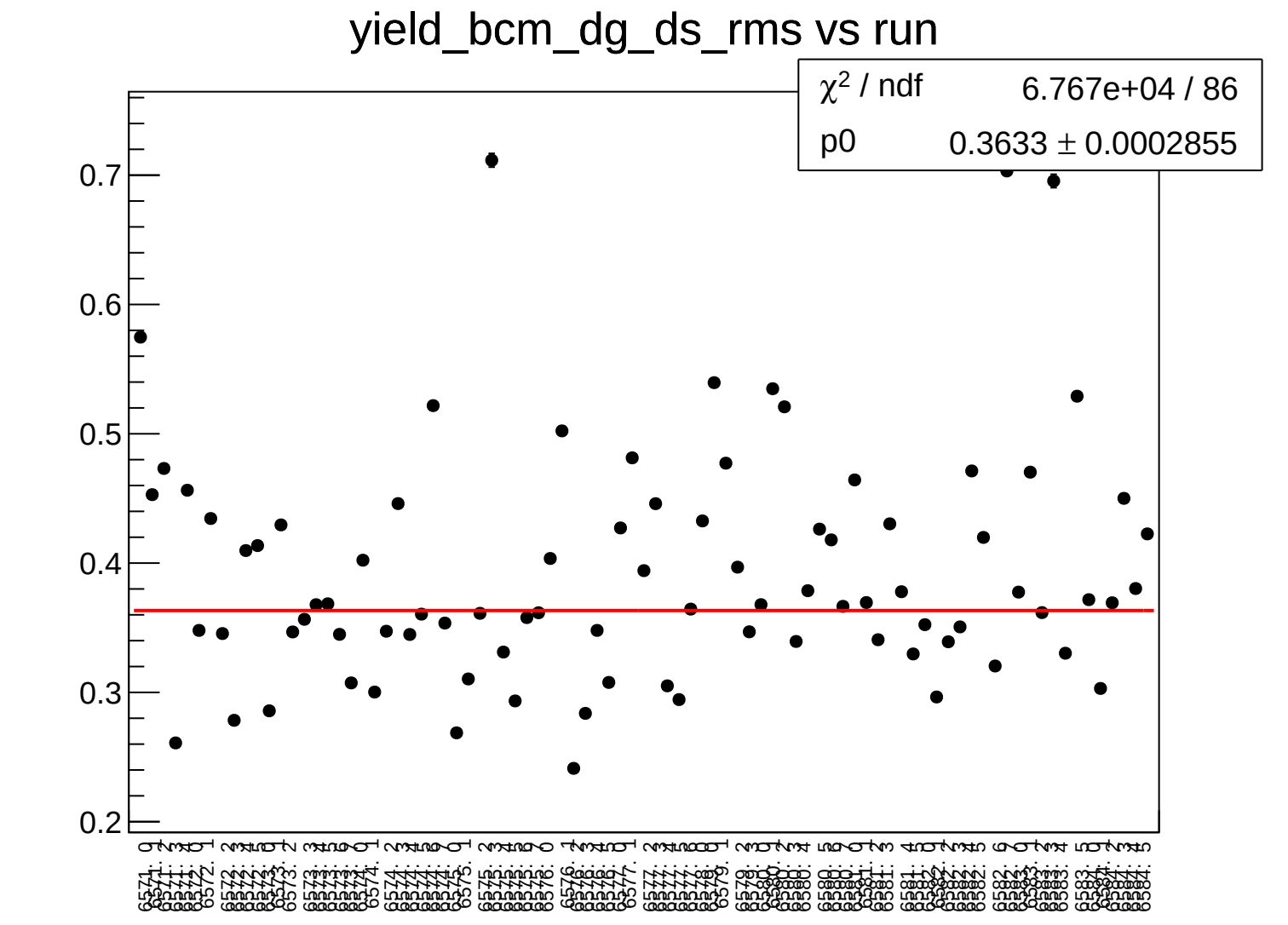

yield_bcm_dg_us_mean vs run
χ² / ndf 2.729e+06 / 86
p0 150.3 ± 0.0004015
152
151.5
151
150.5
150
149.5
149
pull
Entries 87
Mean 374.7
Std Dev 0
400
300
200
100
0
−100
−200
−300

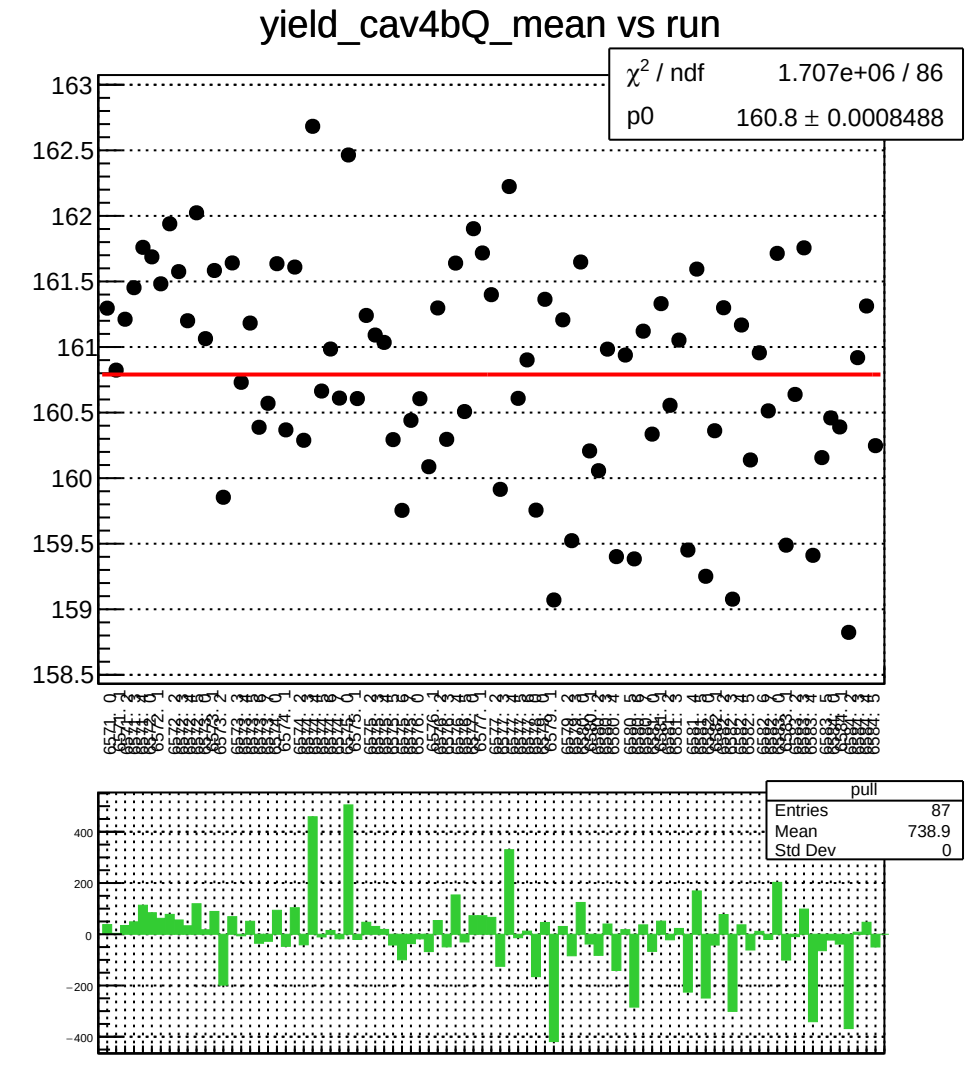

pull1D
Entries 87
Mean −6.561
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

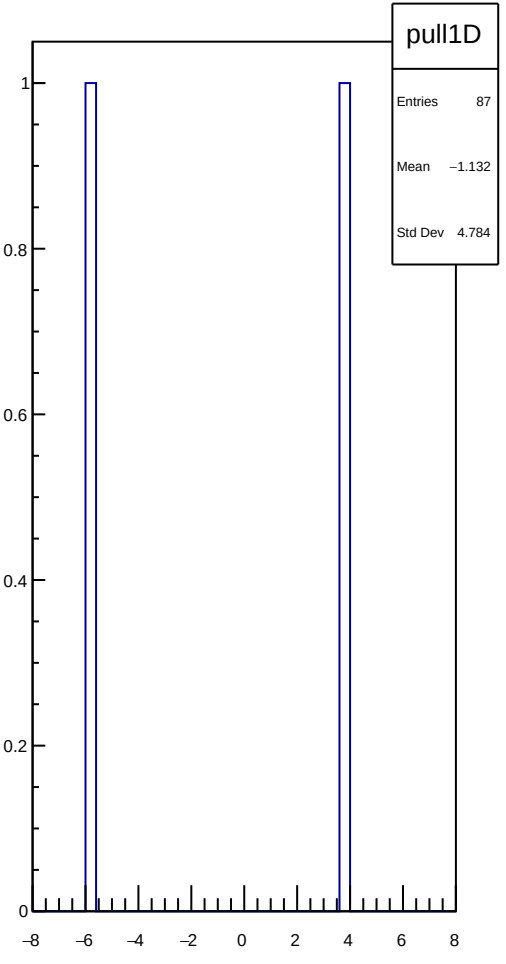

yield_bcm_dg_us_rms vs run
χ² / ndf 5.604e+04 / 86
p0 0.3626 ± 0.0002839
0.7
0.6
0.5
0.4
0.3

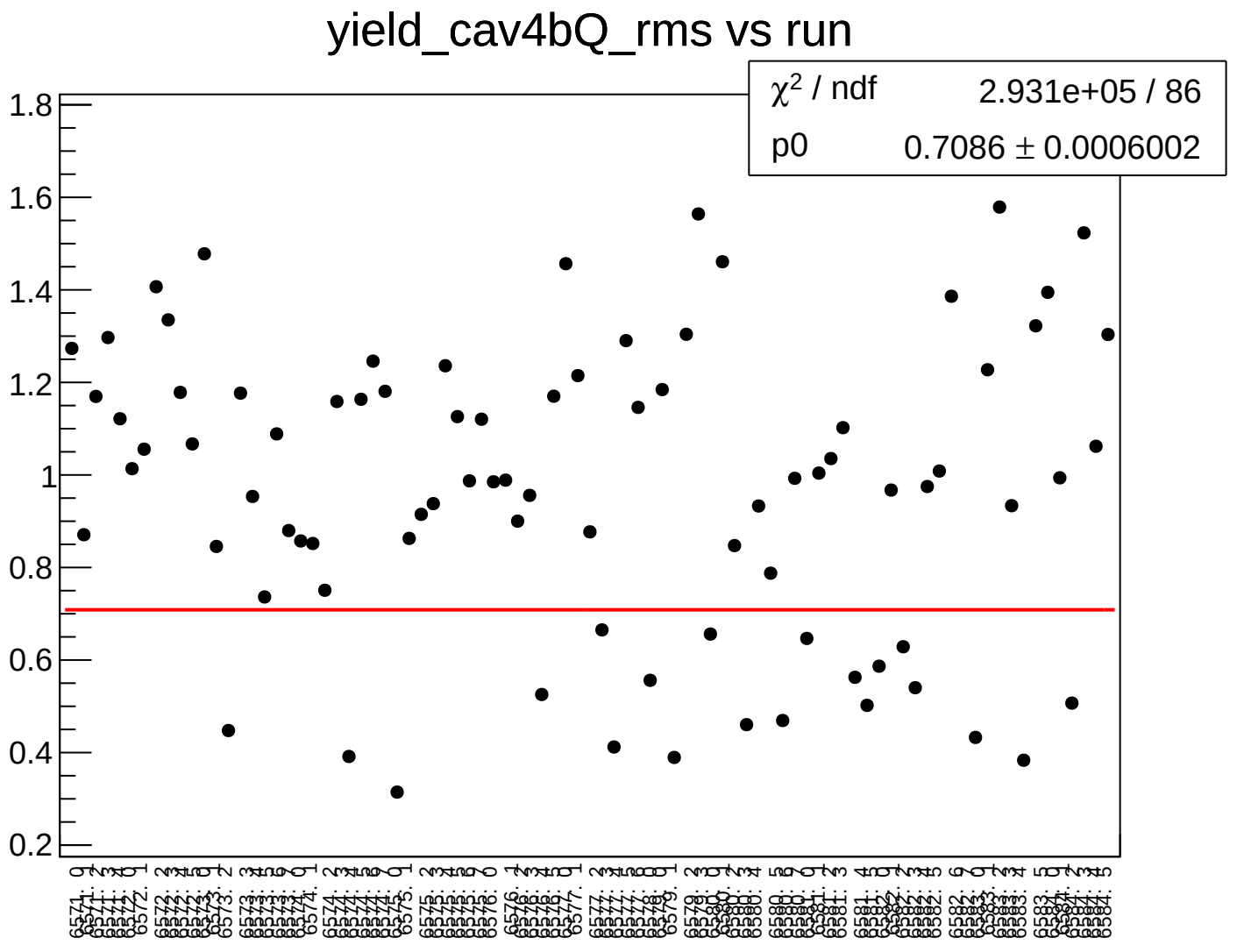

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.633e+06 / 86
p0 150.3 ± 0.0004038
152
151.5
151
150.5
150
149.5
149
148.5
pull
Entries 87
Mean 221.4
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

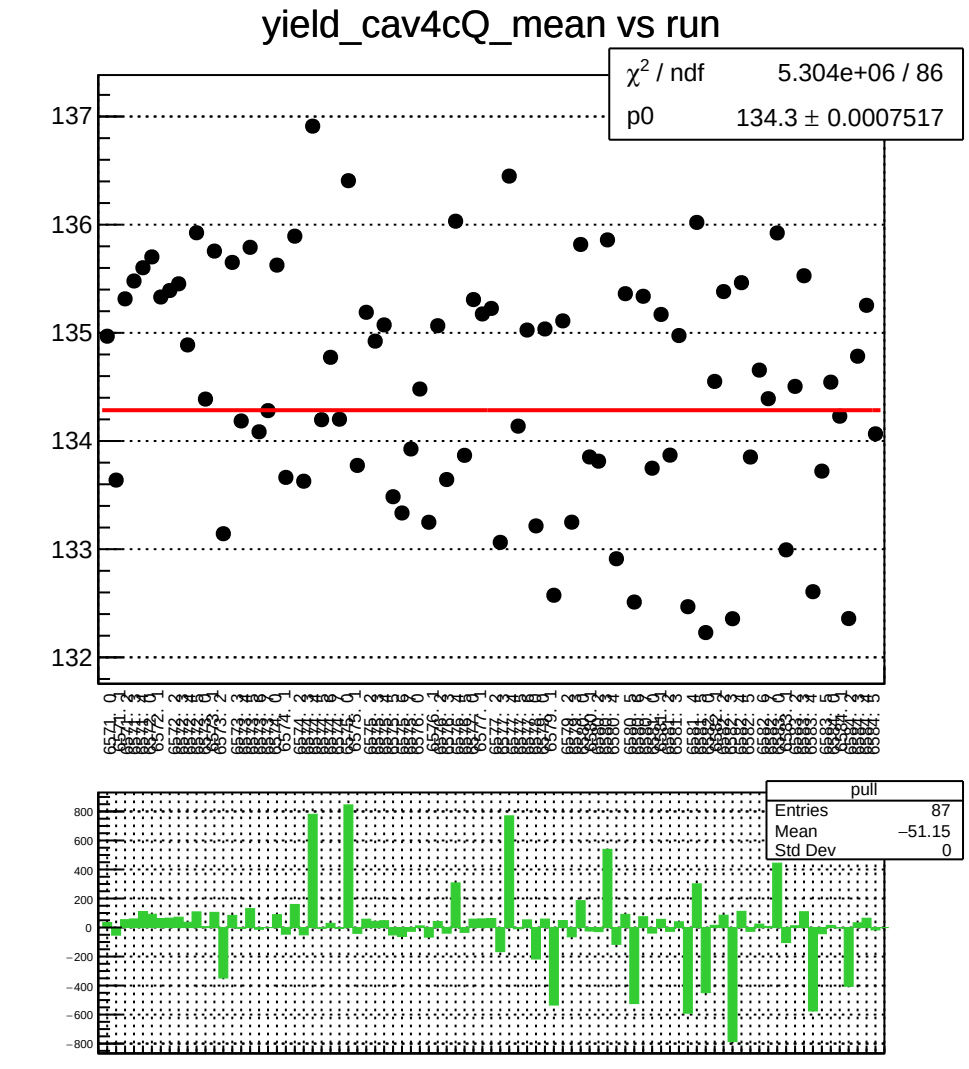

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

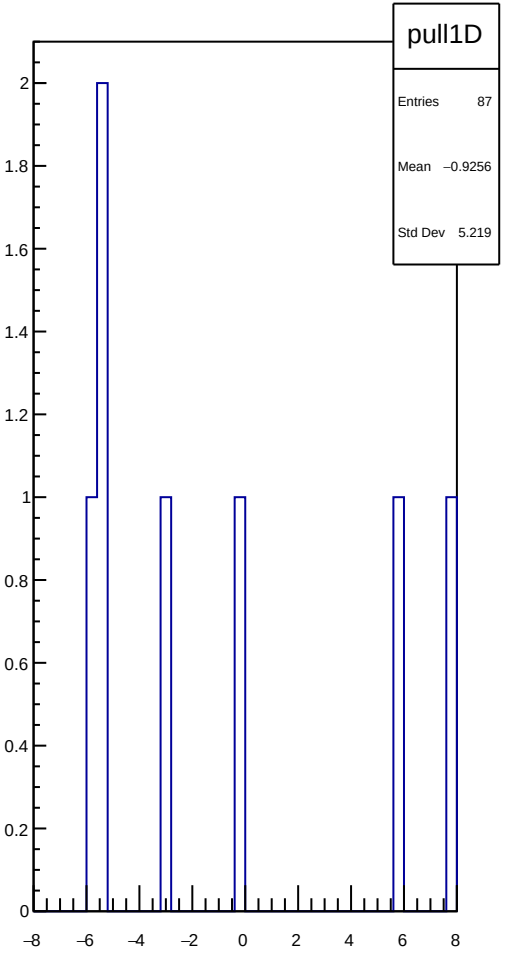

yield_bcm_dg_ds_rms vs run
χ² / ndf 6.767e+04 / 86
p0 0.3633 ± 0.0002855
0.7
0.6
0.5
0.4
0.3
0.2

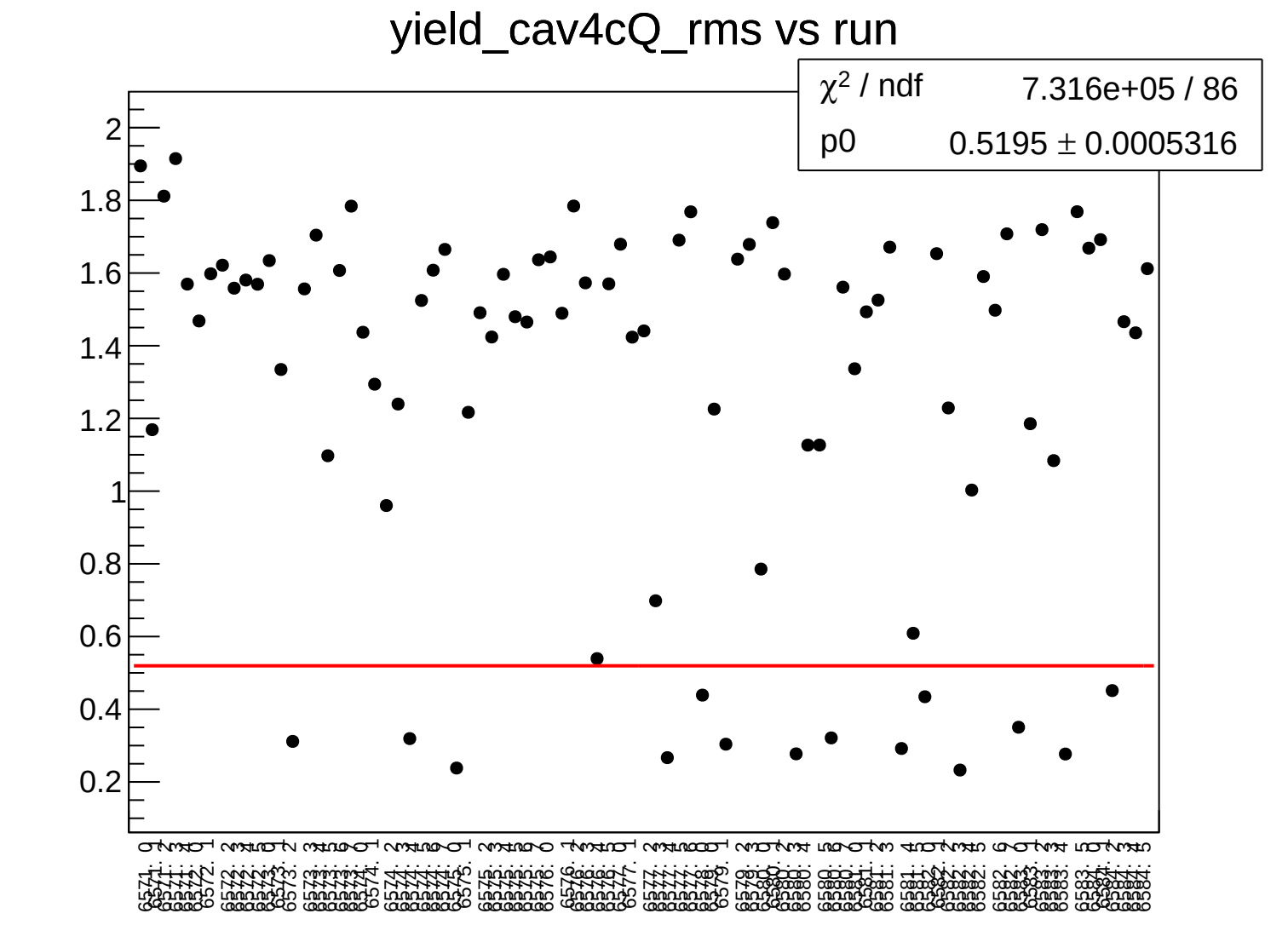

yield_cav4bQ_mean vs run
χ² / ndf 1.707e+06 / 86
p0 160.8 ± 0.0008488
163
162.5
162
161.5
161
160.5
160
159.5
159
158.5
pull
Entries 87
Mean 738.9
Std Dev 0
400
200
0
−200
−400

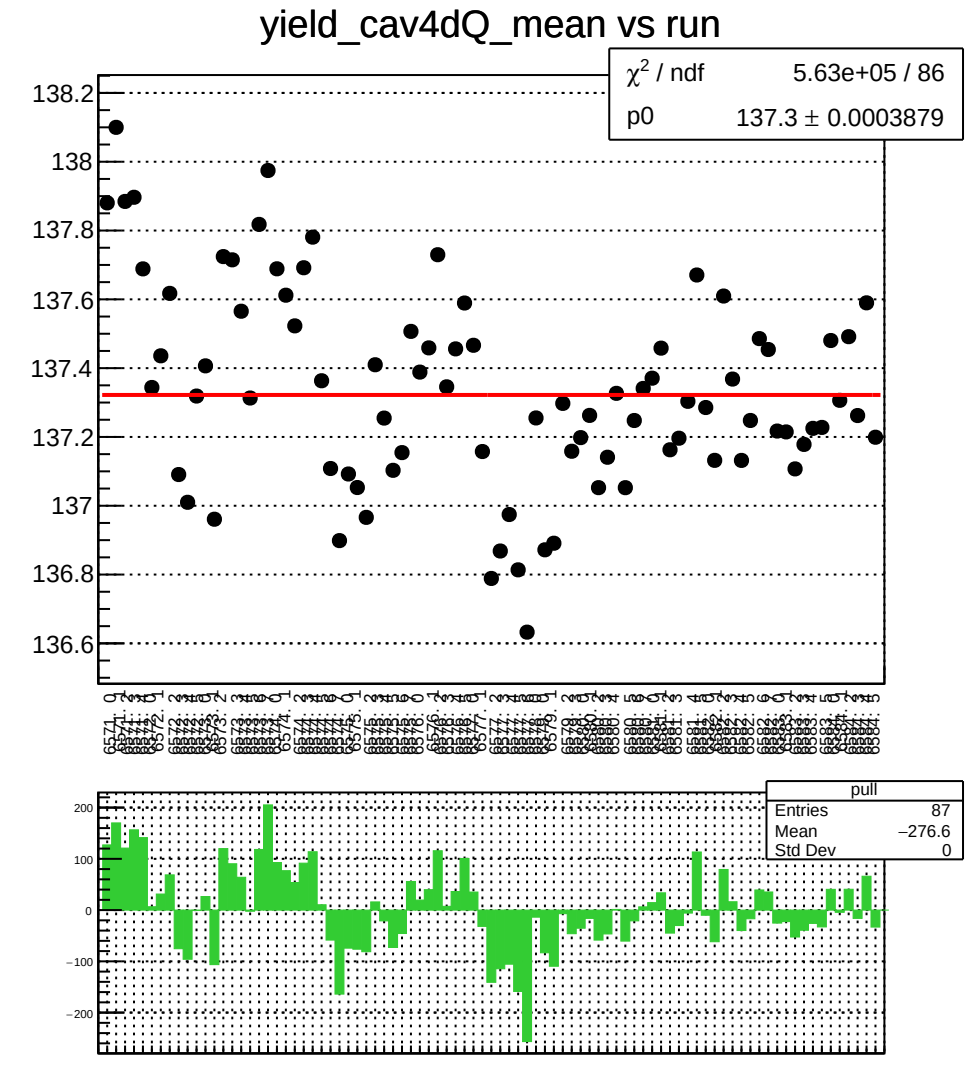

pull1D
Entries 87
Mean −1.132
Std Dev 4.784
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

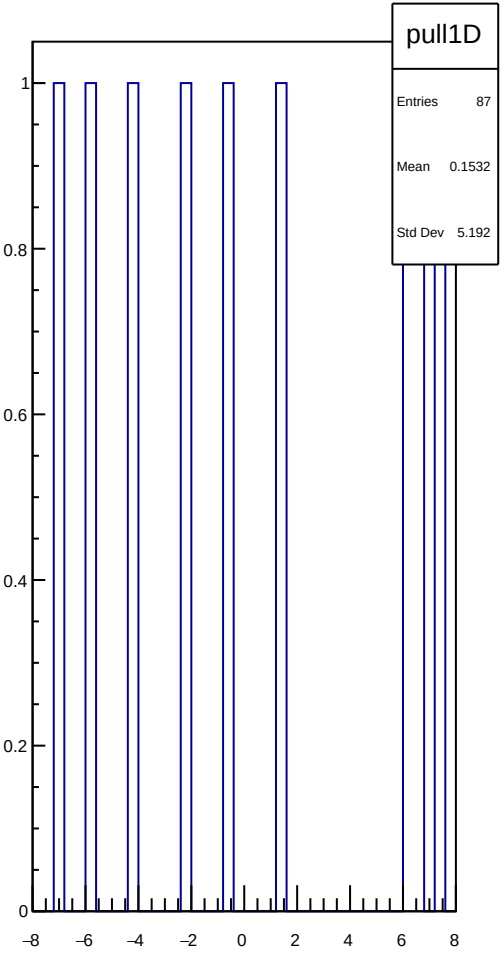

yield_cav4bQ_rms vs run
χ² / ndf 2.931e+05 / 86
p0 0.7086 ± 0.0006002
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

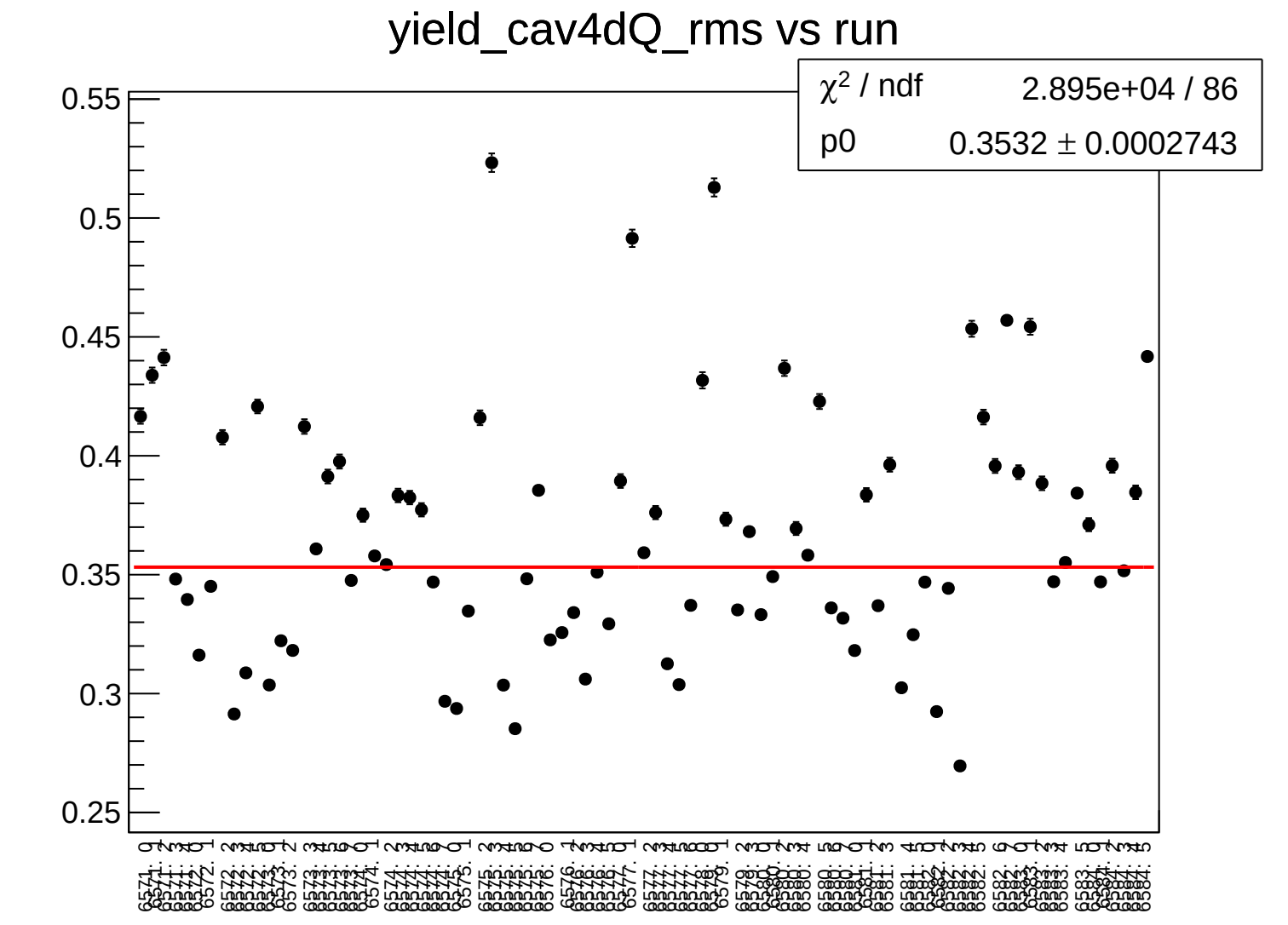

yield_cav4cQ_mean vs run
χ² / ndf 5.304e+06 / 86
p0 134.3 ± 0.0007517
137
136
135
134
133
132
pull
Entries 87
Mean −51.15
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

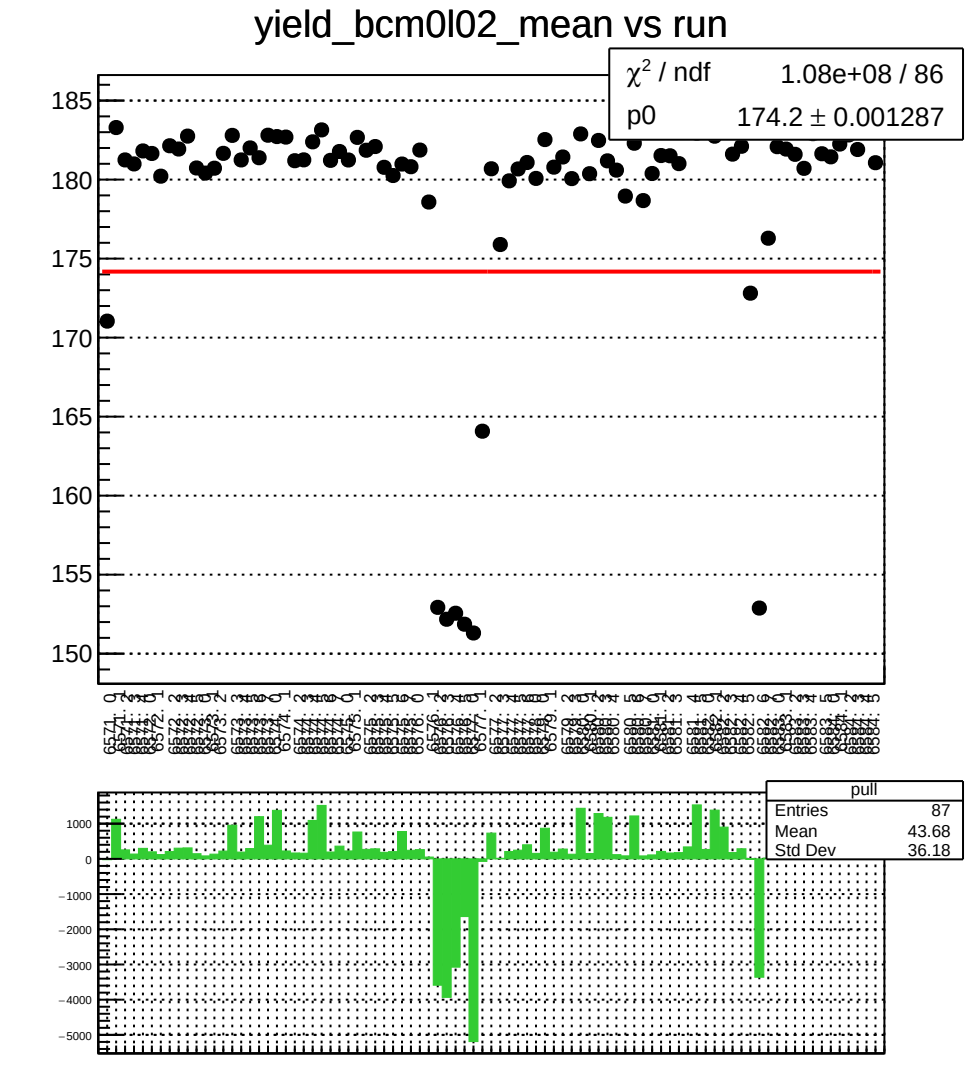

pull1D
Entries 87
Mean −0.9256
Std Dev 5.219
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

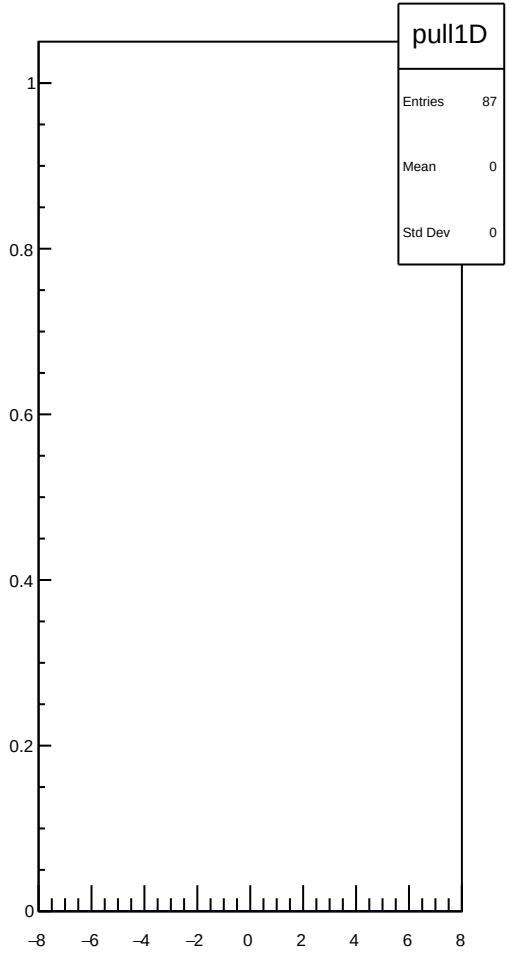

yield_cav4cQ_rms vs run
χ² / ndf 7.316e+05 / 86
p0 0.5195 ± 0.0005316
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

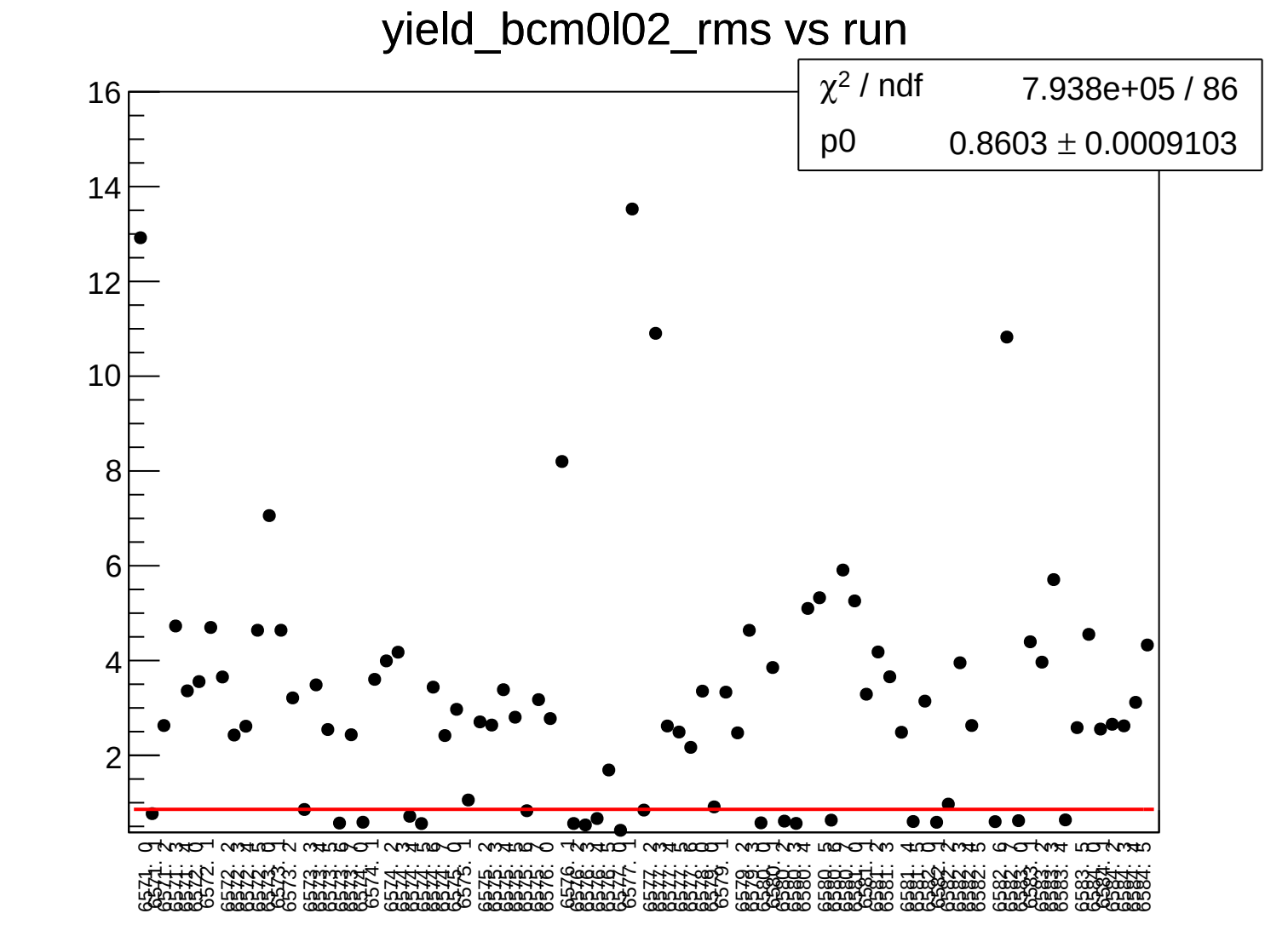

yield_cav4dQ_mean vs run
χ² / ndf 5.63e+05 / 86
p0 137.3 ± 0.0003879
138.2
138
137.8
137.6
137.4
137.2
137
136.8
136.6
pull
Entries 87
Mean −276.6
Std Dev 0
200
100
0
−100
−200

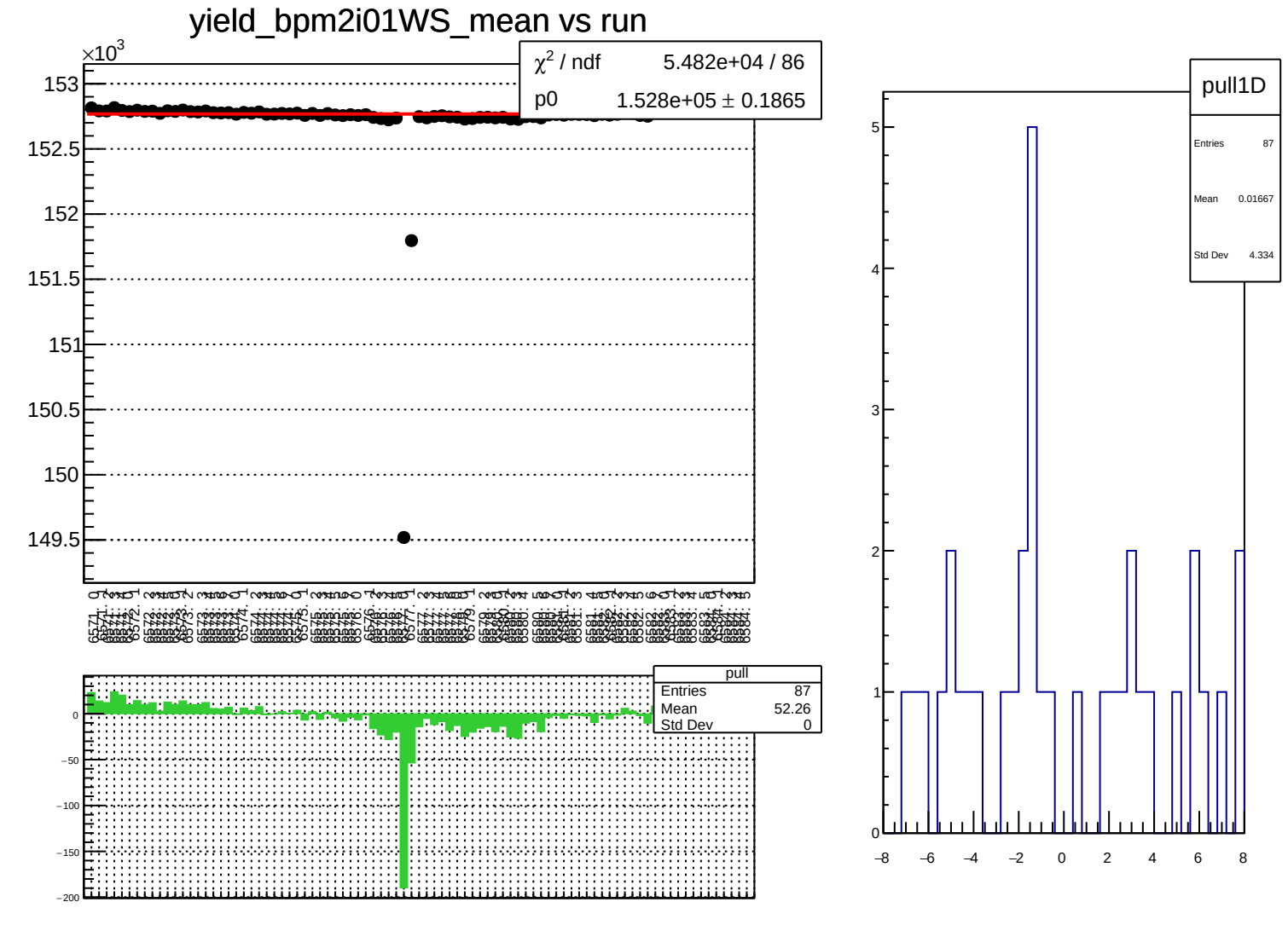

pull1D
Entries 87
Mean 0.1532
Std Dev 5.192
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

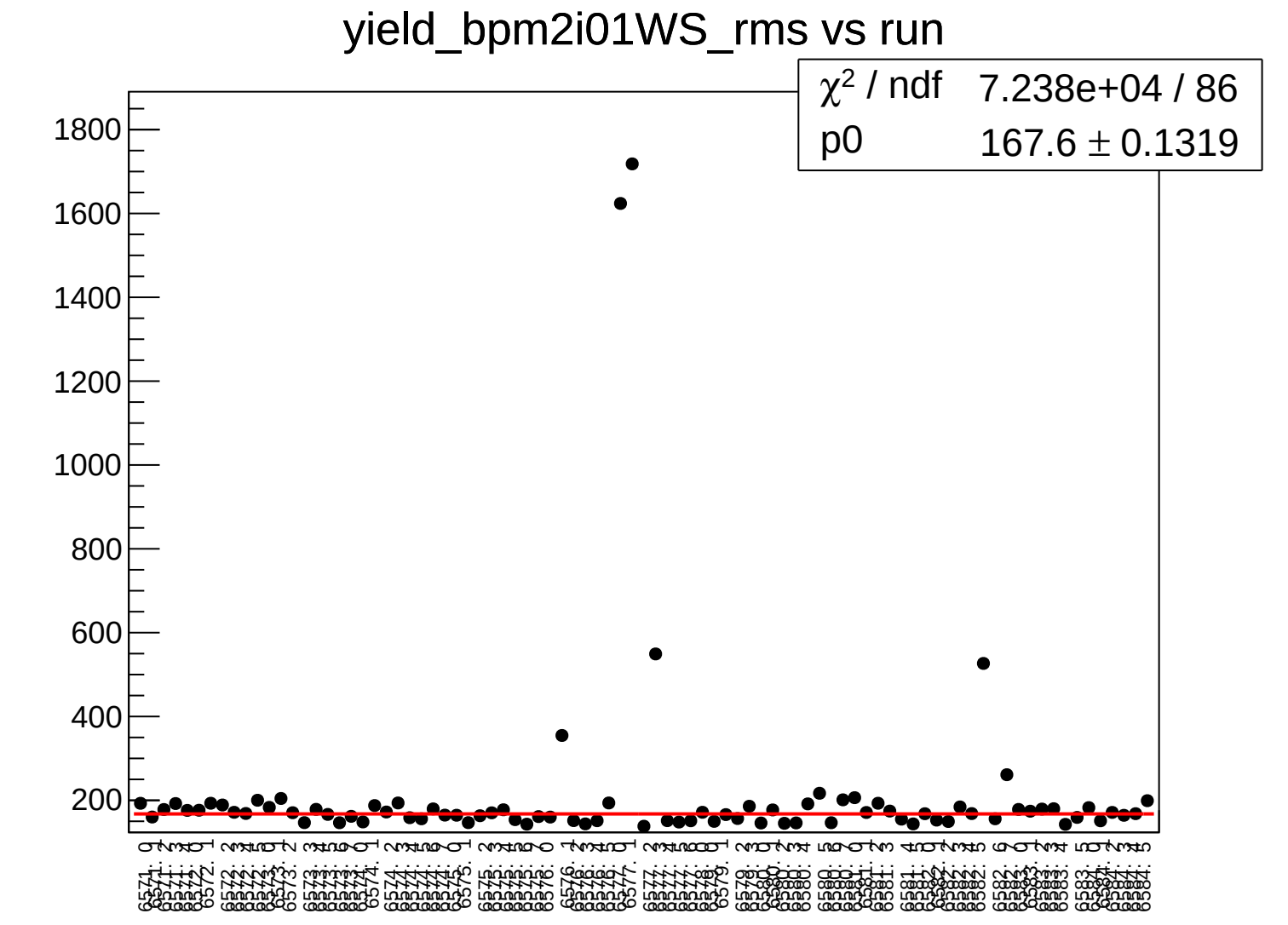

yield_cav4dQ_rms vs run
χ² / ndf 2.895e+04 / 86
p0 0.3532 ± 0.0002743
0.55
0.5
0.45
0.4
0.35
0.3
0.25

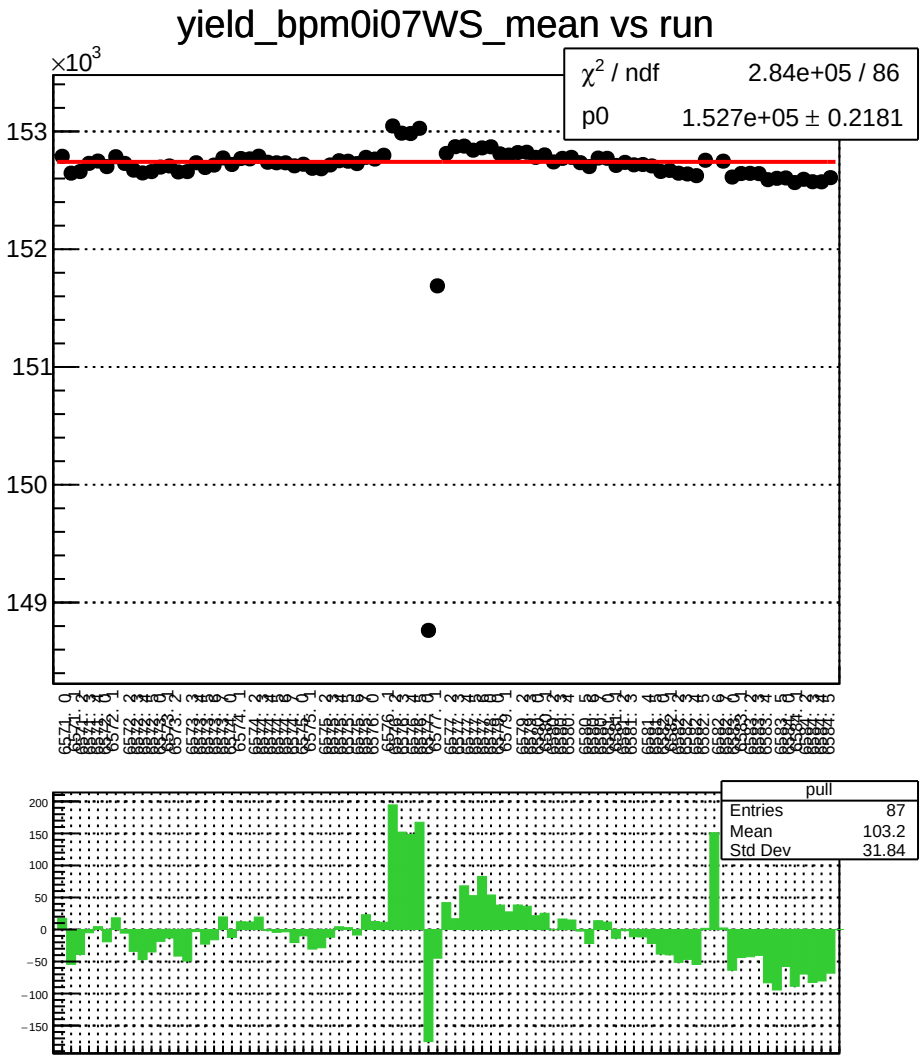

yield_bcm0l02_mean vs run
χ² / ndf 1.08e+08 / 86
p0 174.2 ± 0.001287
185
180
175
170
165
160
155
150
pull
Entries 87
Mean 43.68
Std Dev 36.18
1000
0
−1000
−2000
−3000
−4000
−5000

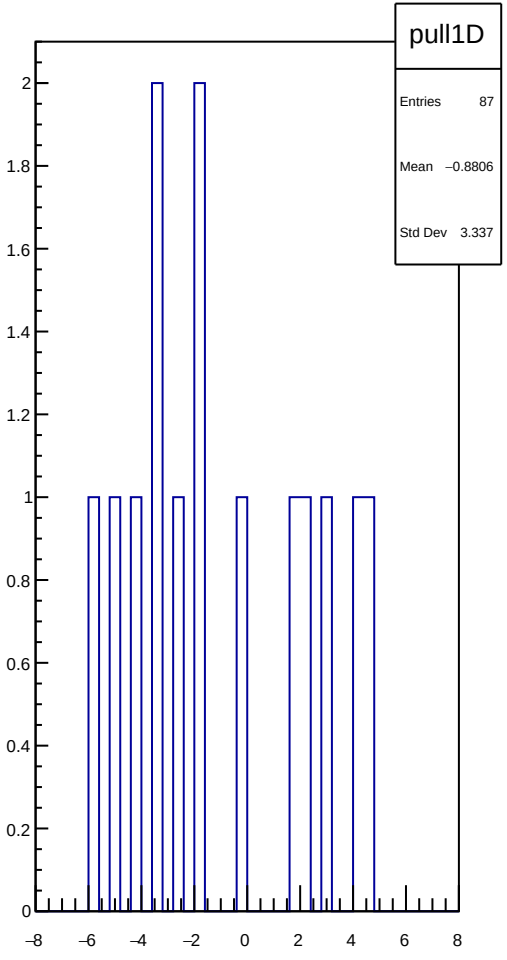

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

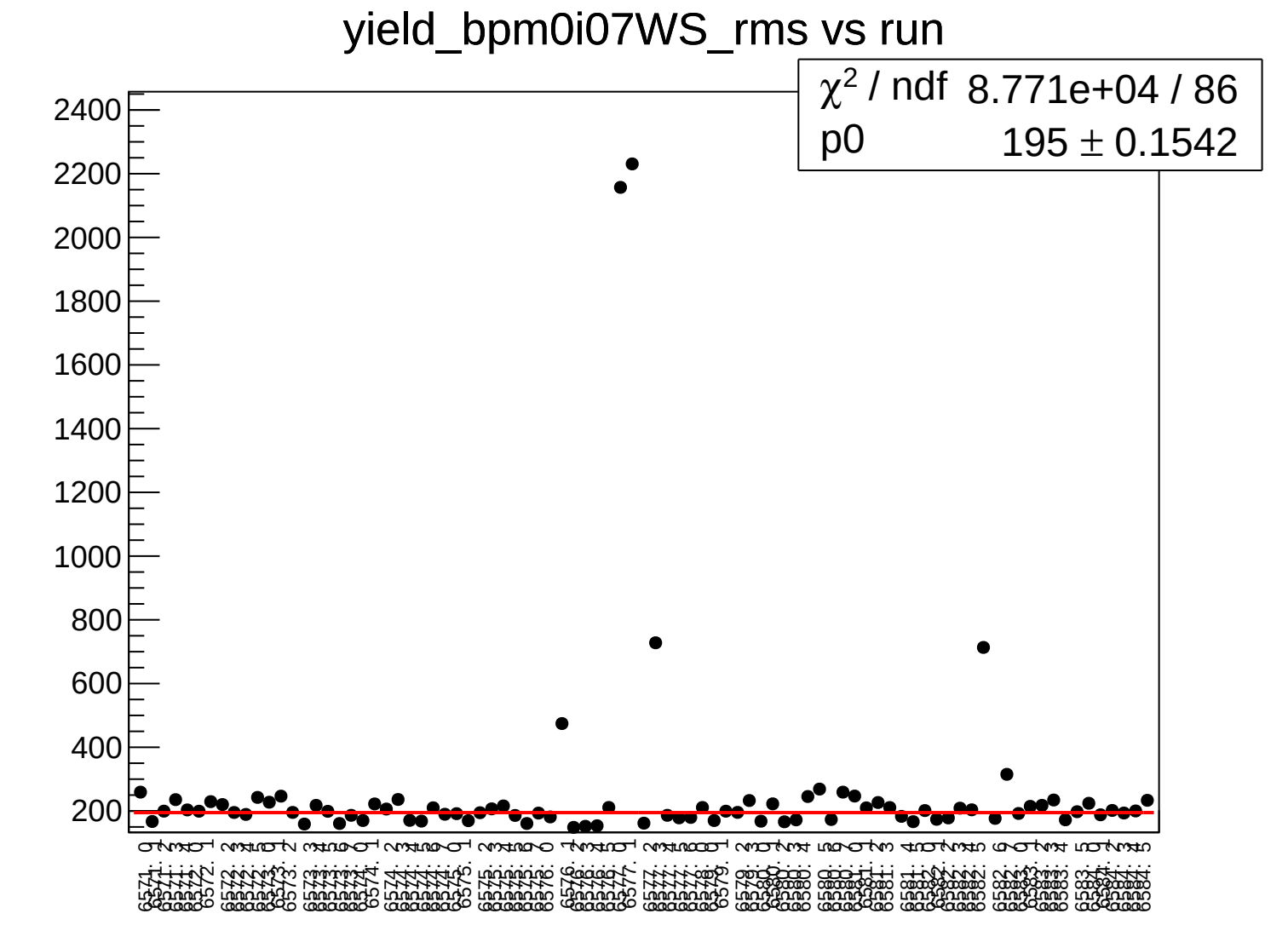

yield_bcm0l02_rms vs run
χ² / ndf 7.938e+05 / 86
p0 0.8603 ± 0.0009103
16
14
12
10
8
6
4
2

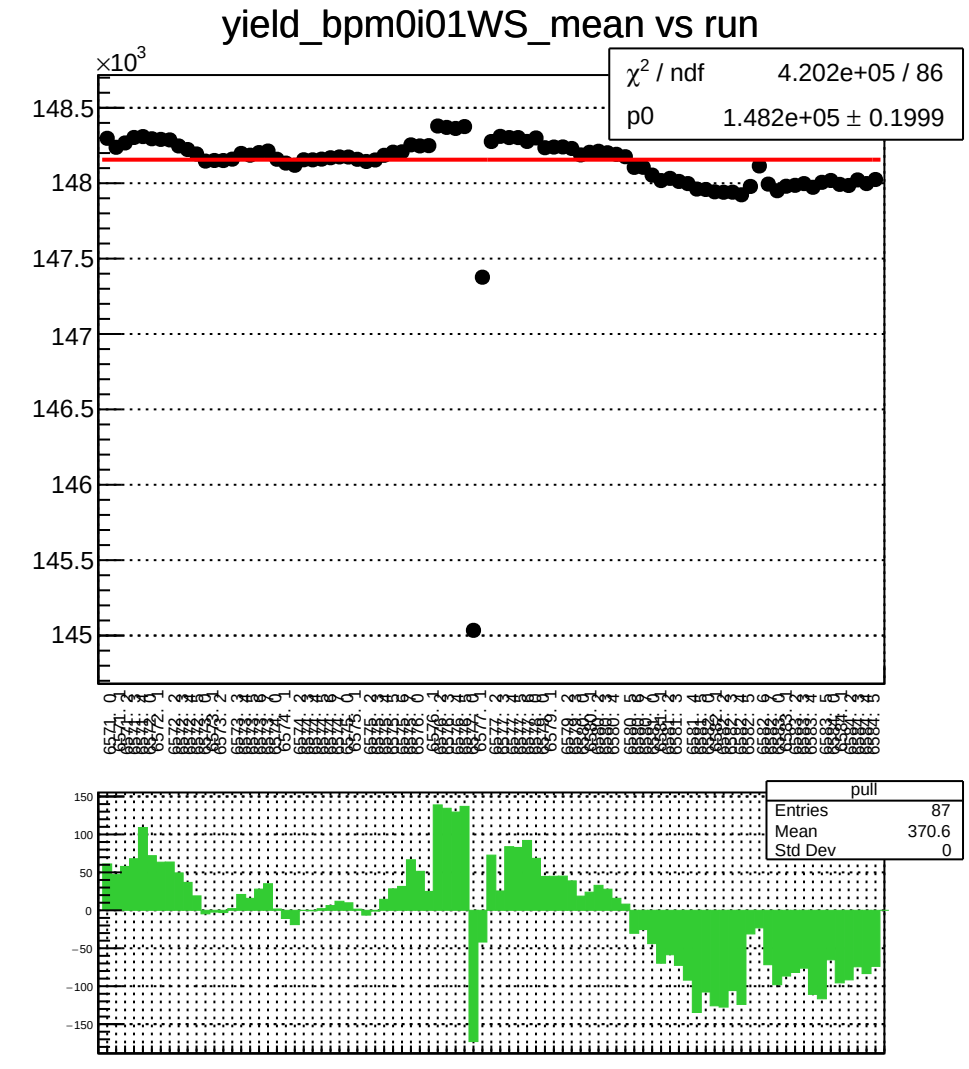

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.482e+04 / 86
p0 1.528e+05 ± 0.1865
153
152.5
152
151.5
151
150.5
150
149.5
pull
Entries 87
Mean 52.26
Std Dev 0
0
−50
−100
−150
−200
pull1D
Entries 87
Mean 0.01667
Std Dev 4.334
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

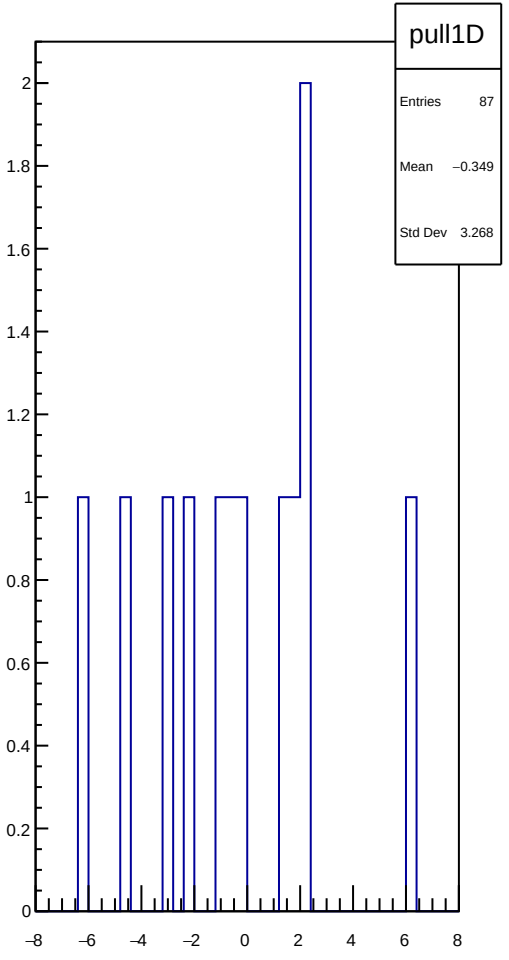

yield_bpm2i01WS_rms vs run
χ² / ndf 7.238e+04 / 86
p0 167.6 ± 0.1319
1800
1600
1400
1200
1000
800
600
400
200

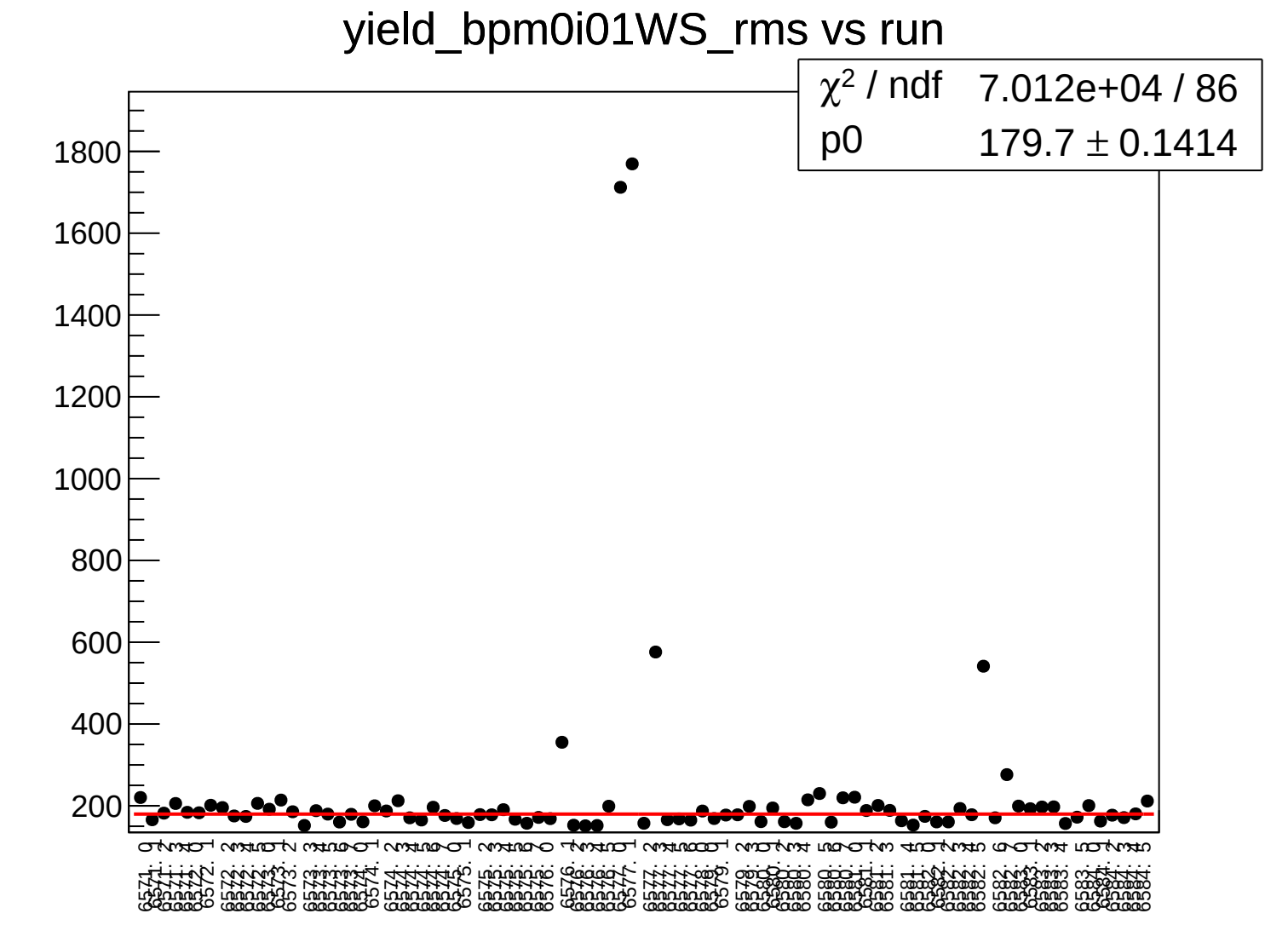

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.84e+05 / 86
p0 1.527e+05 ± 0.2181
153
152
151
150
149
pull
Entries 87
Mean 103.2
Std Dev 31.84
200
150
100
50
0
−50
−100
−150

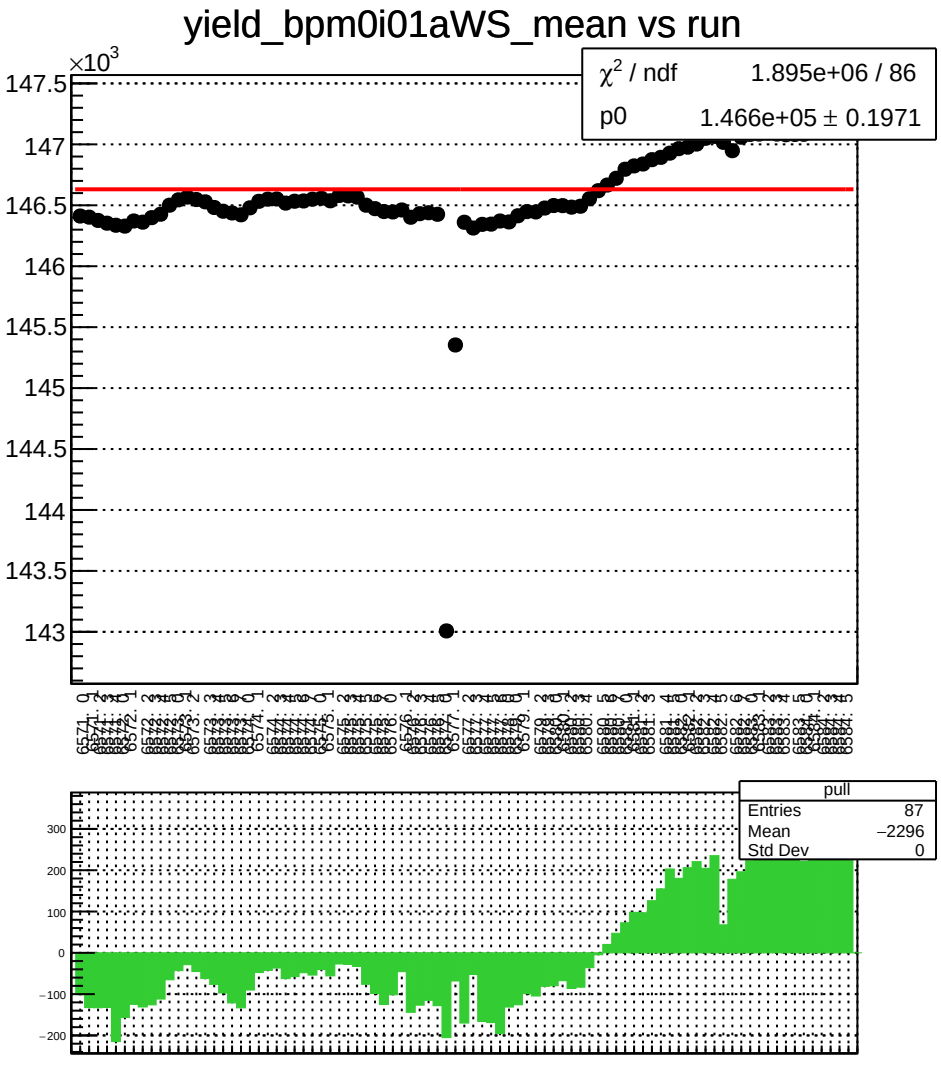

pull1D
Entries 87
Mean −0.8806
Std Dev 3.337
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

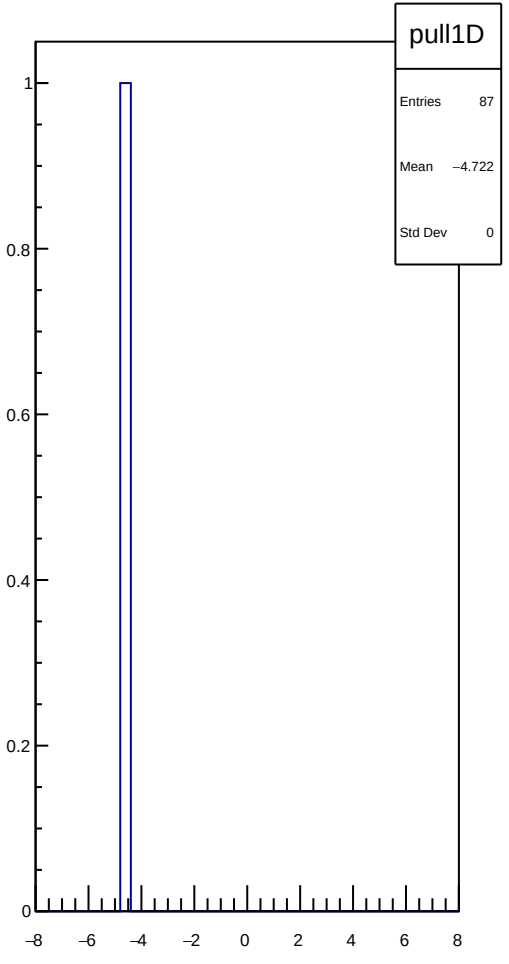

yield_bpm0i07WS_rms vs run
χ² / ndf 8.771e+04 / 86
p0 195 ± 0.1542
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

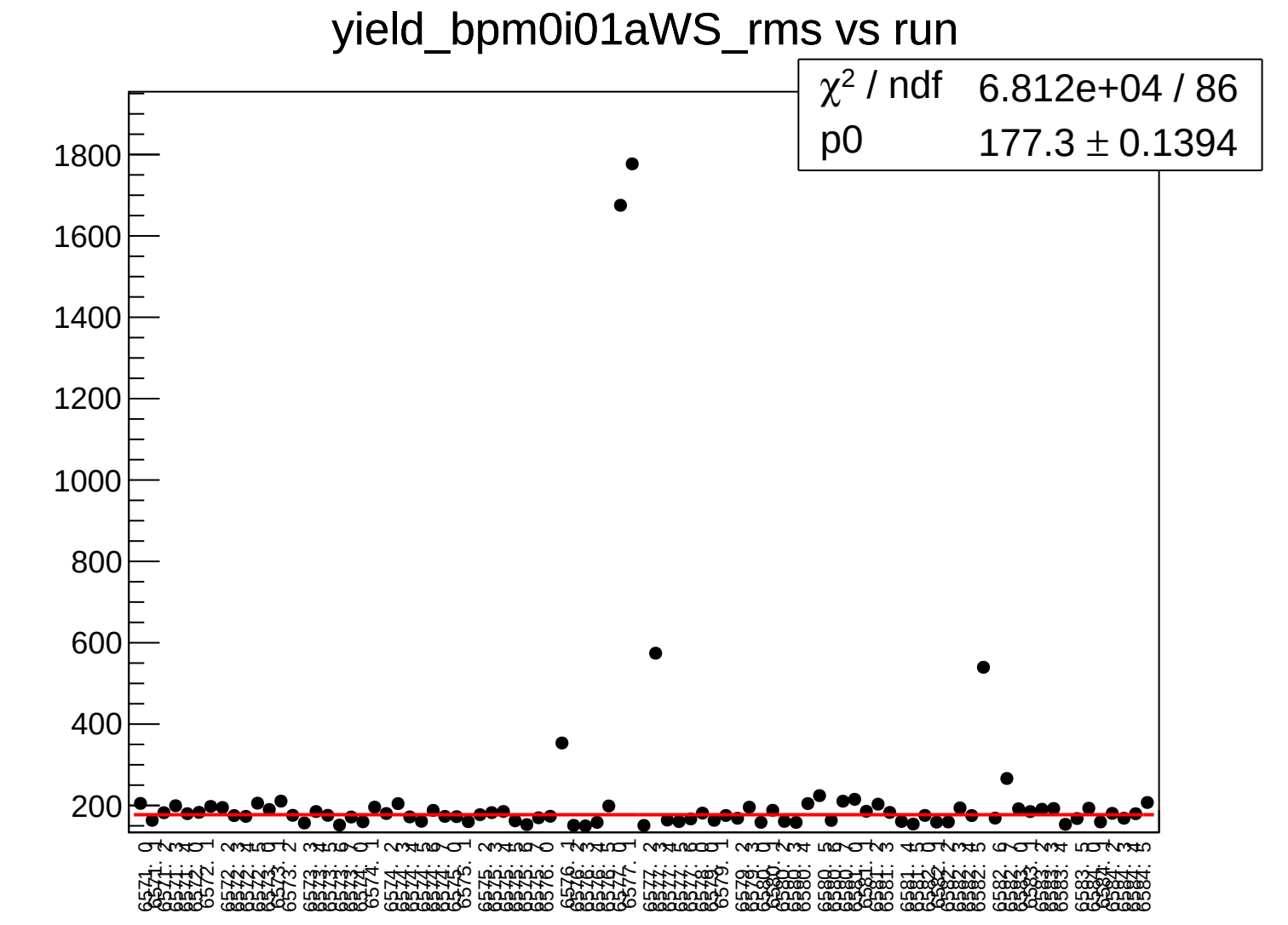

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 4.202e+05 / 86
p0 1.482e+05 ± 0.1999
148.5
148
147.5
147
146.5
146
145.5
145
pull
Entries 87
Mean 370.6
Std Dev 0
150
100
50
0
−50
−100
−150

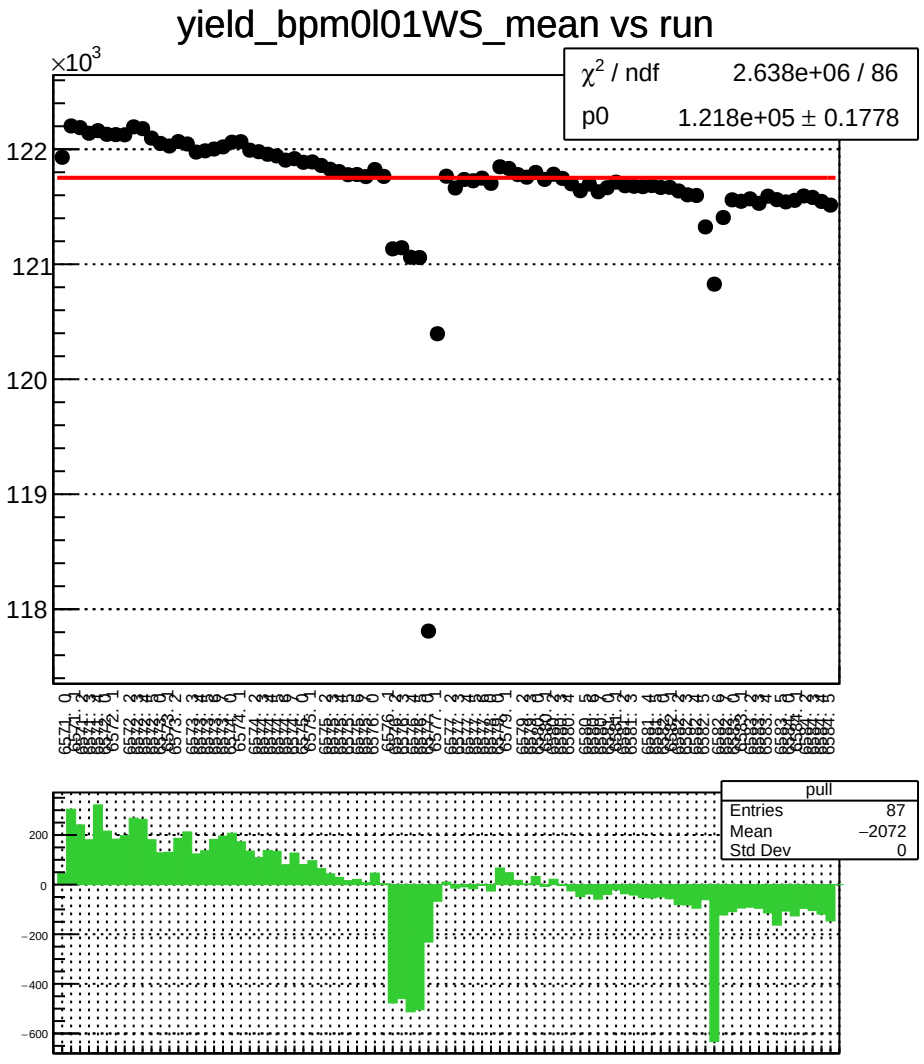

pull1D
Entries 87
Mean −0.349
Std Dev 3.268
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

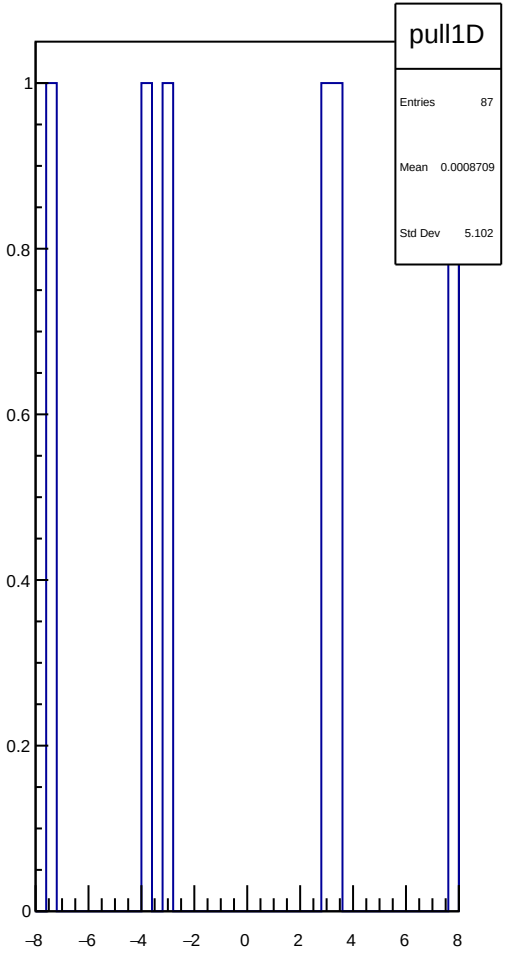

yield_bpm0i01WS_rms vs run
χ² / ndf 7.012e+04 / 86
p0 179.7 ± 0.1414
1800
1600
1400
1200
1000
800
600
400
200

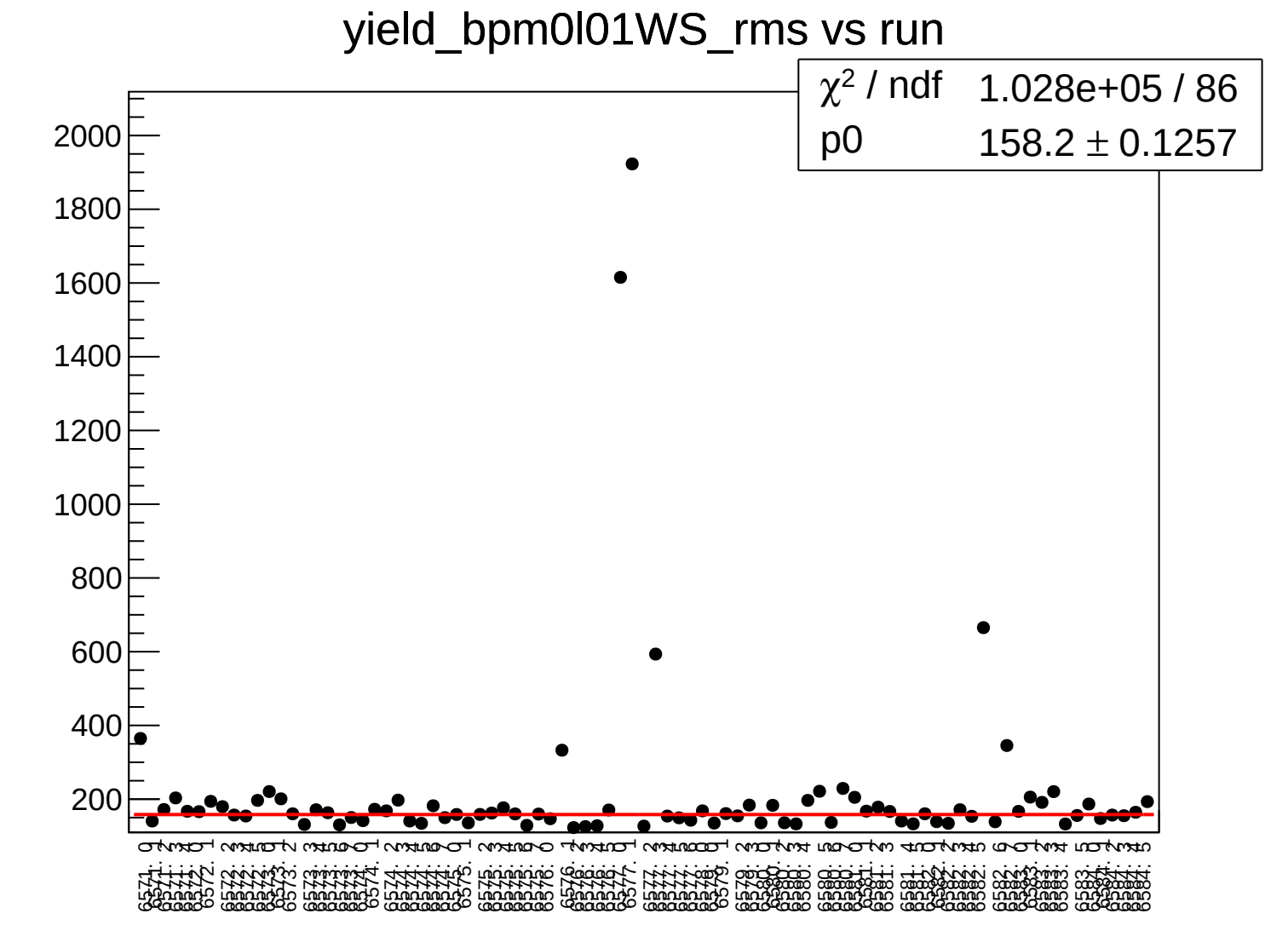

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 1.895e+06 / 86
p0 1.466e+05 ± 0.1971
147.5
147
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 87
Mean −2296
Std Dev 0
300
200
100
0
−100
−200

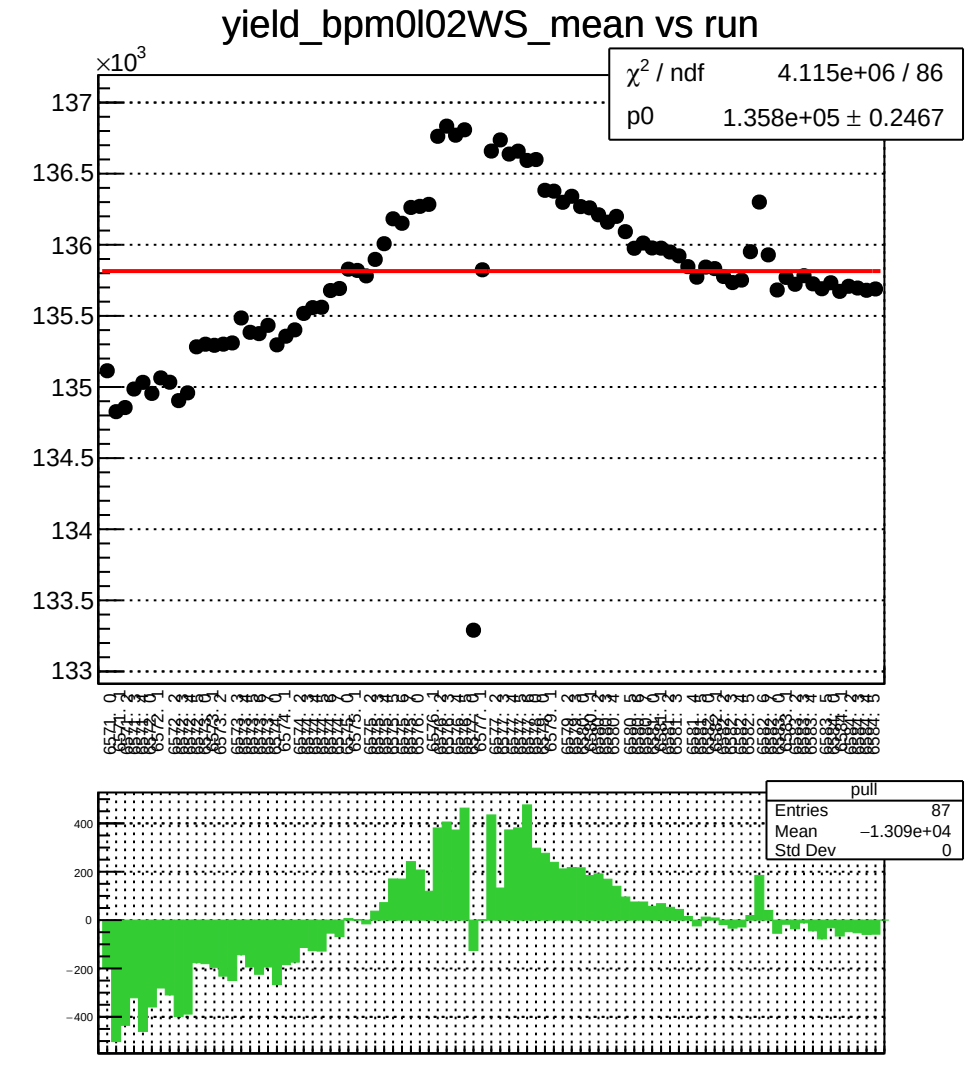

pull1D
Entries 87
Mean −4.722
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

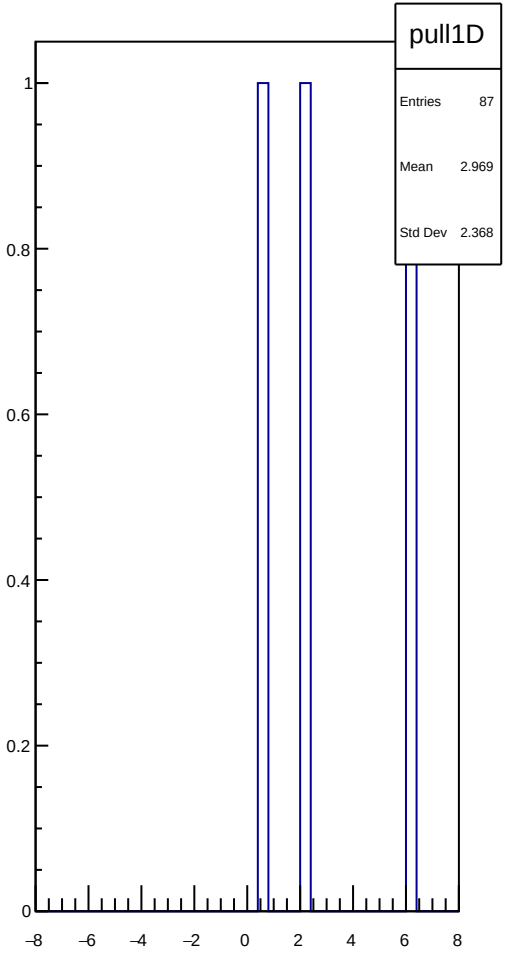

yield_bpm0i01aWS_rms vs run
χ² / ndf 6.812e+04 / 86
p0 177.3 ± 0.1394
1800
1600
1400
1200
1000
800
600
400
200

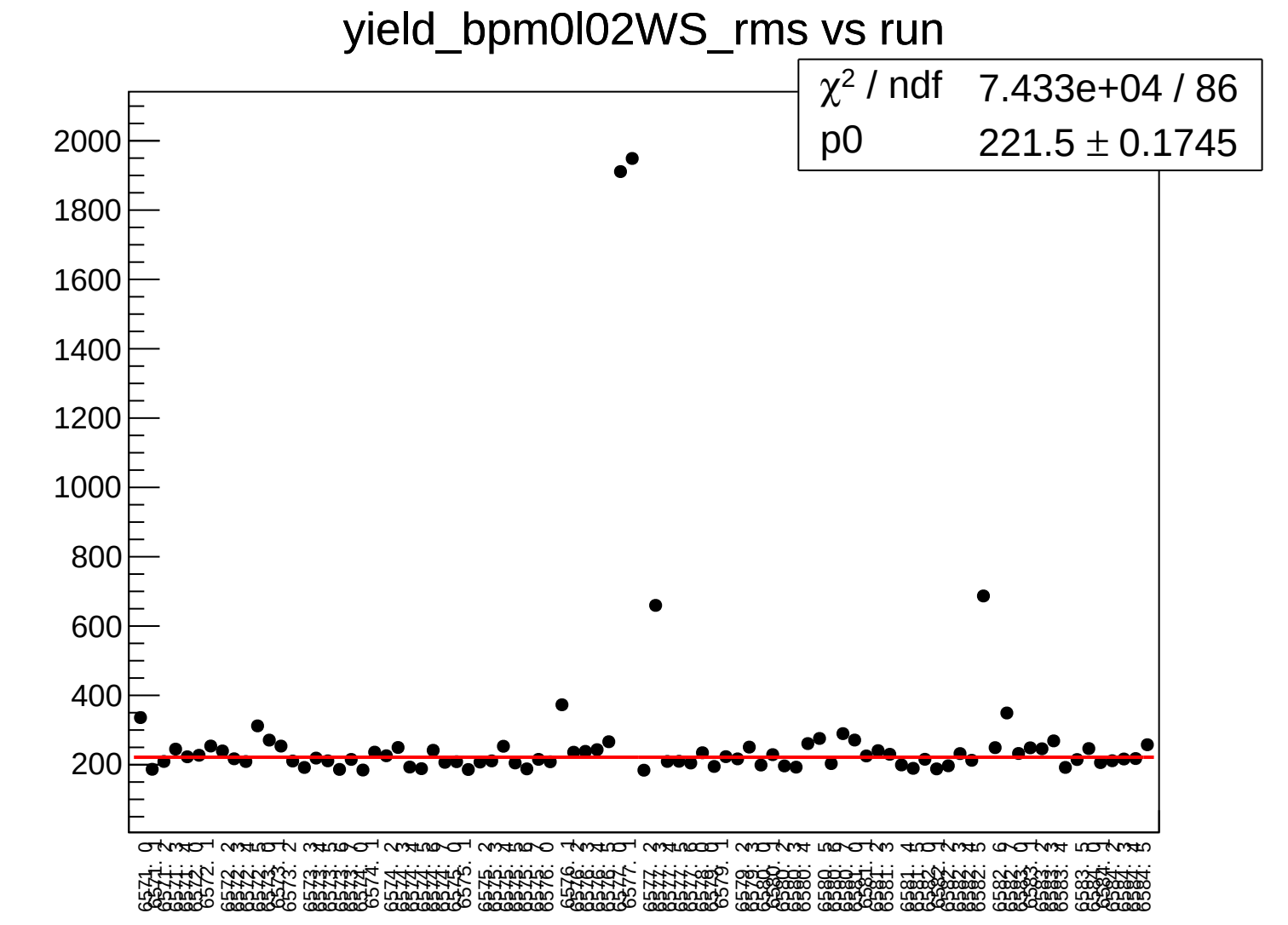

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 2.638e+06 / 86
p0 1.218e+05 ± 0.1778
122
121
120
119
118
pull
Entries 87
Mean −2072
Std Dev 0
200
0
−200
−400
−600

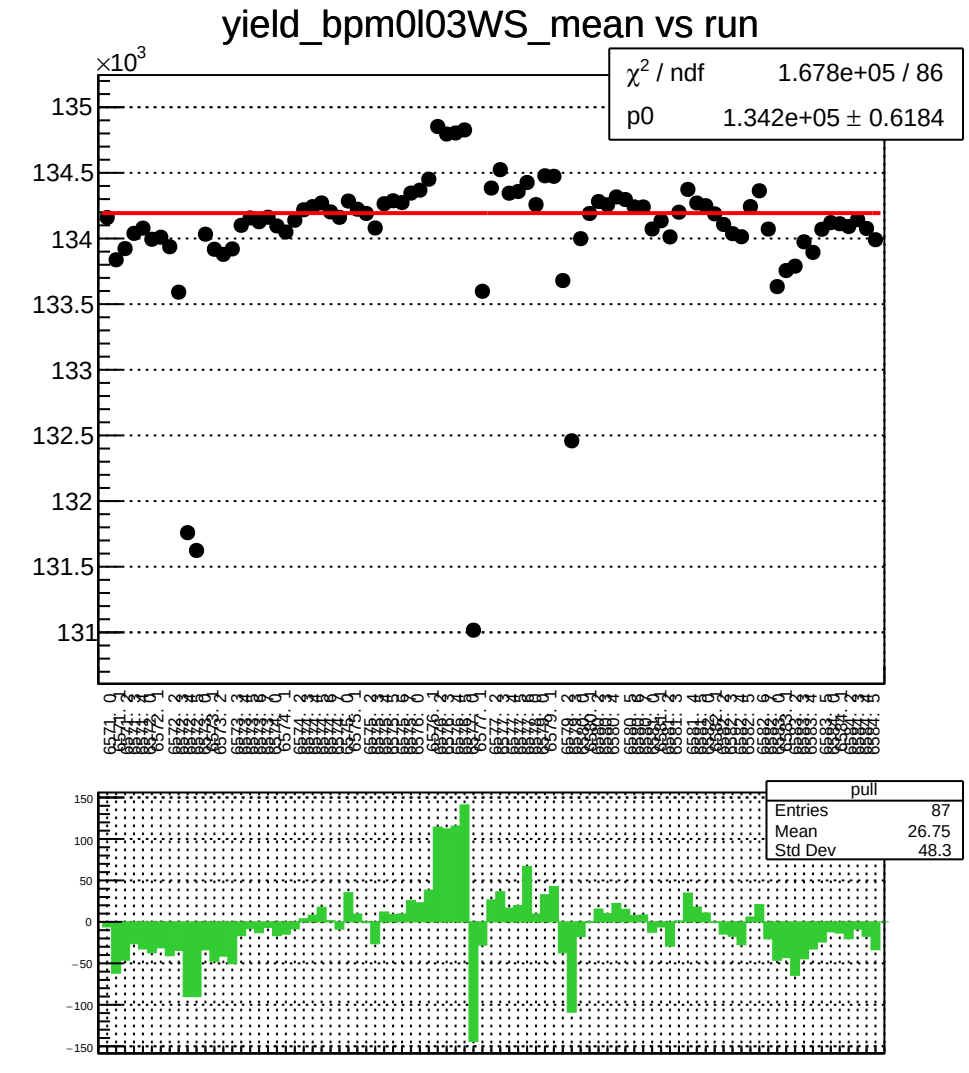

pull1D
Entries 87
Mean 0.0008709
Std Dev 5.102
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

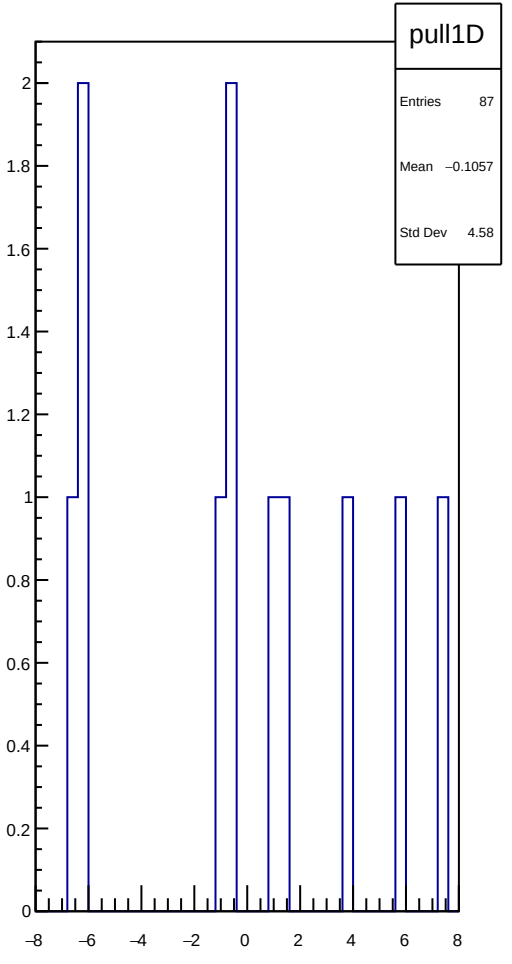

yield_bpm0l01WS_rms vs run
χ² / ndf 1.028e+05 / 86
p0 158.2 ± 0.1257
2000
1800
1600
1400
1200
1000
800
600
400
200

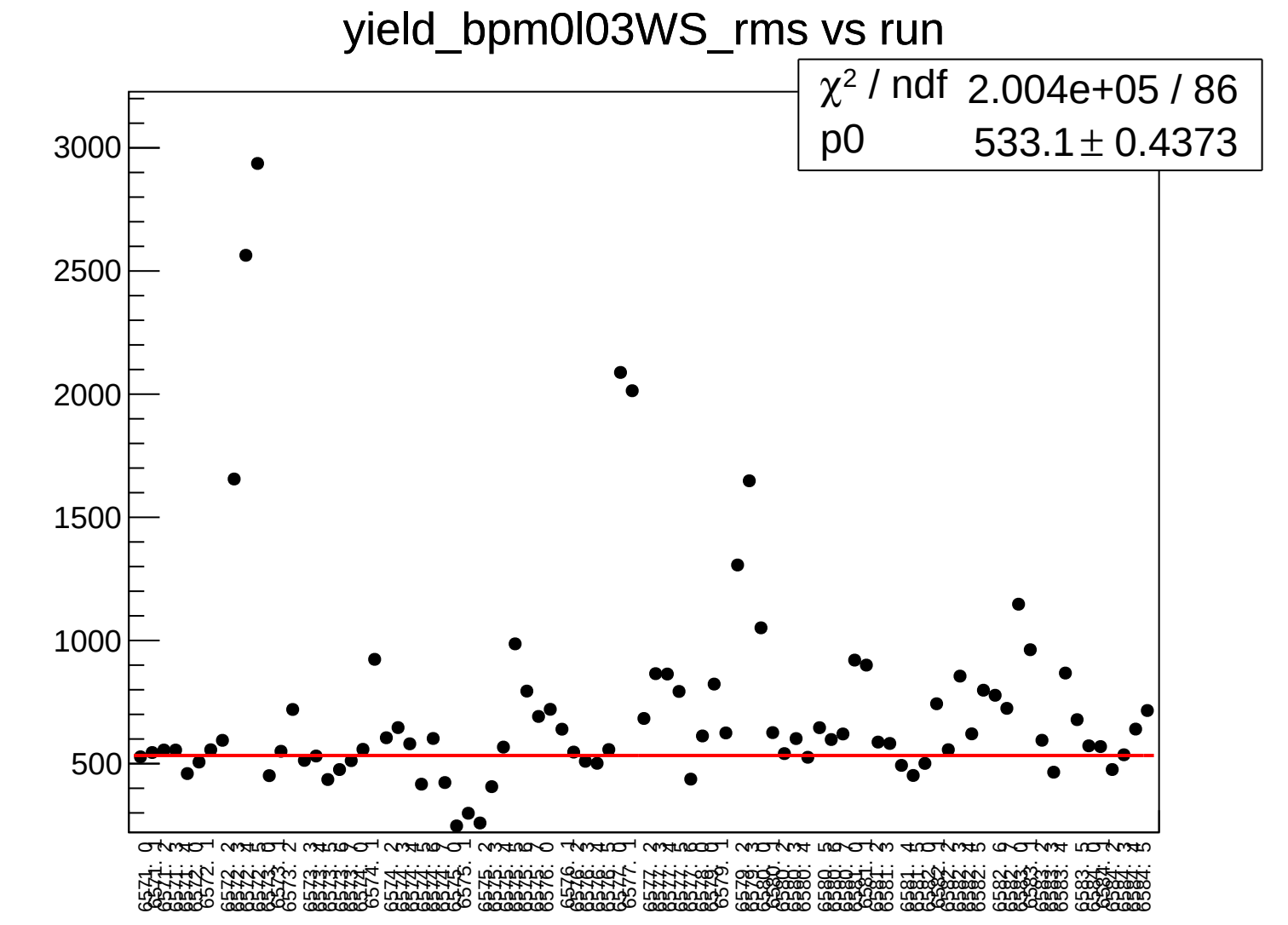

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 4.115e+06 / 86
p0 1.358e+05 ± 0.2467
137
136.5
136
135.5
135
134.5
134
133.5
133
pull
Entries 87
Mean −1.309e+04
Std Dev 0
400
200
0
−200
−400

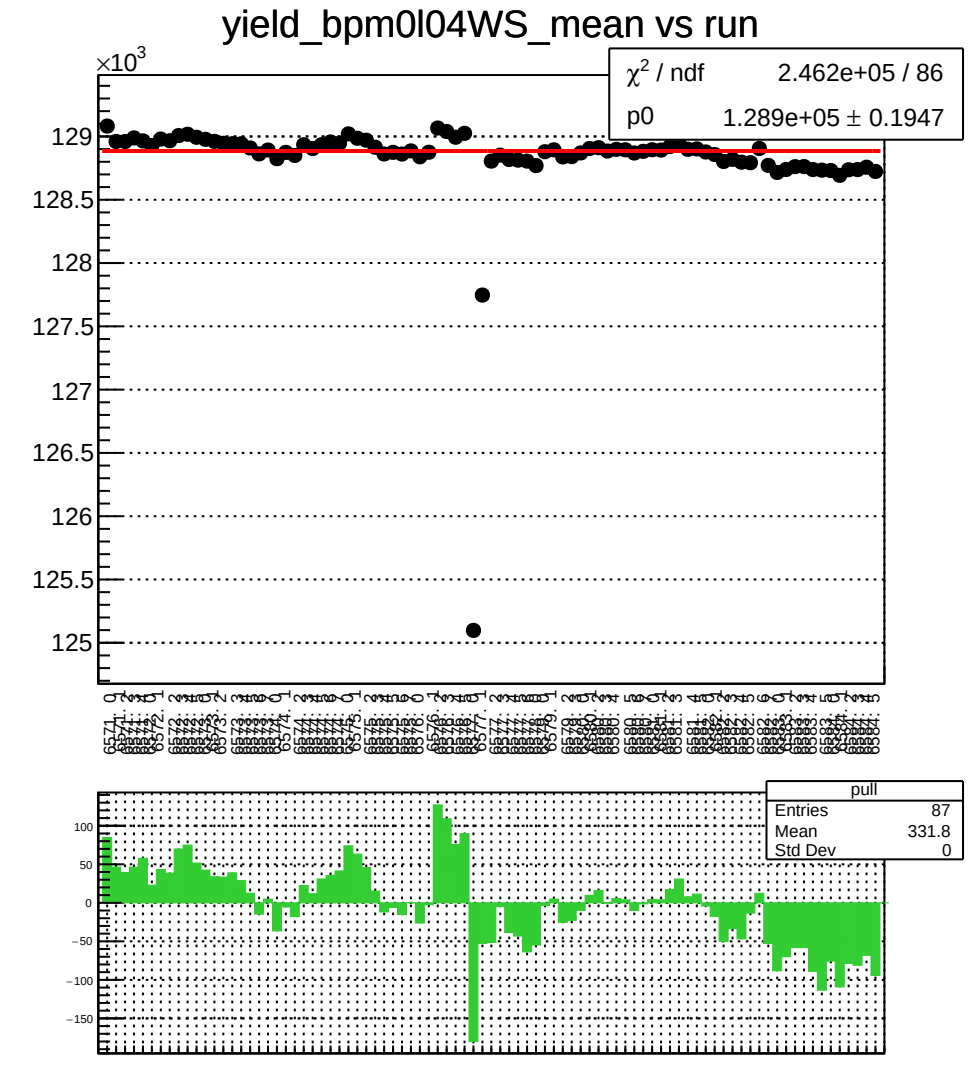

pull1D
Entries 87
Mean 2.969
Std Dev 2.368
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

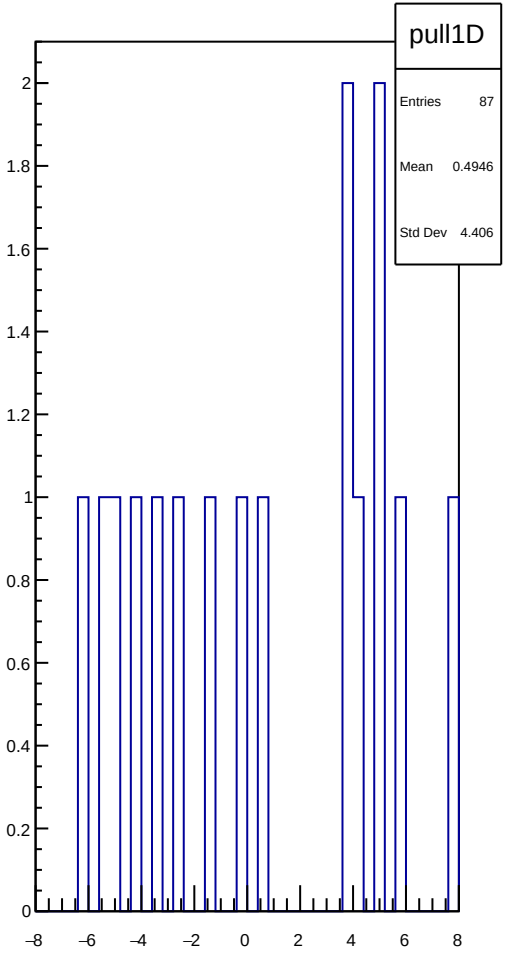

yield_bpm0l02WS_rms vs run
χ² / ndf 7.433e+04 / 86
p0 221.5 ± 0.1745
2000
1800
1600
1400
1200
1000
800
600
400
200

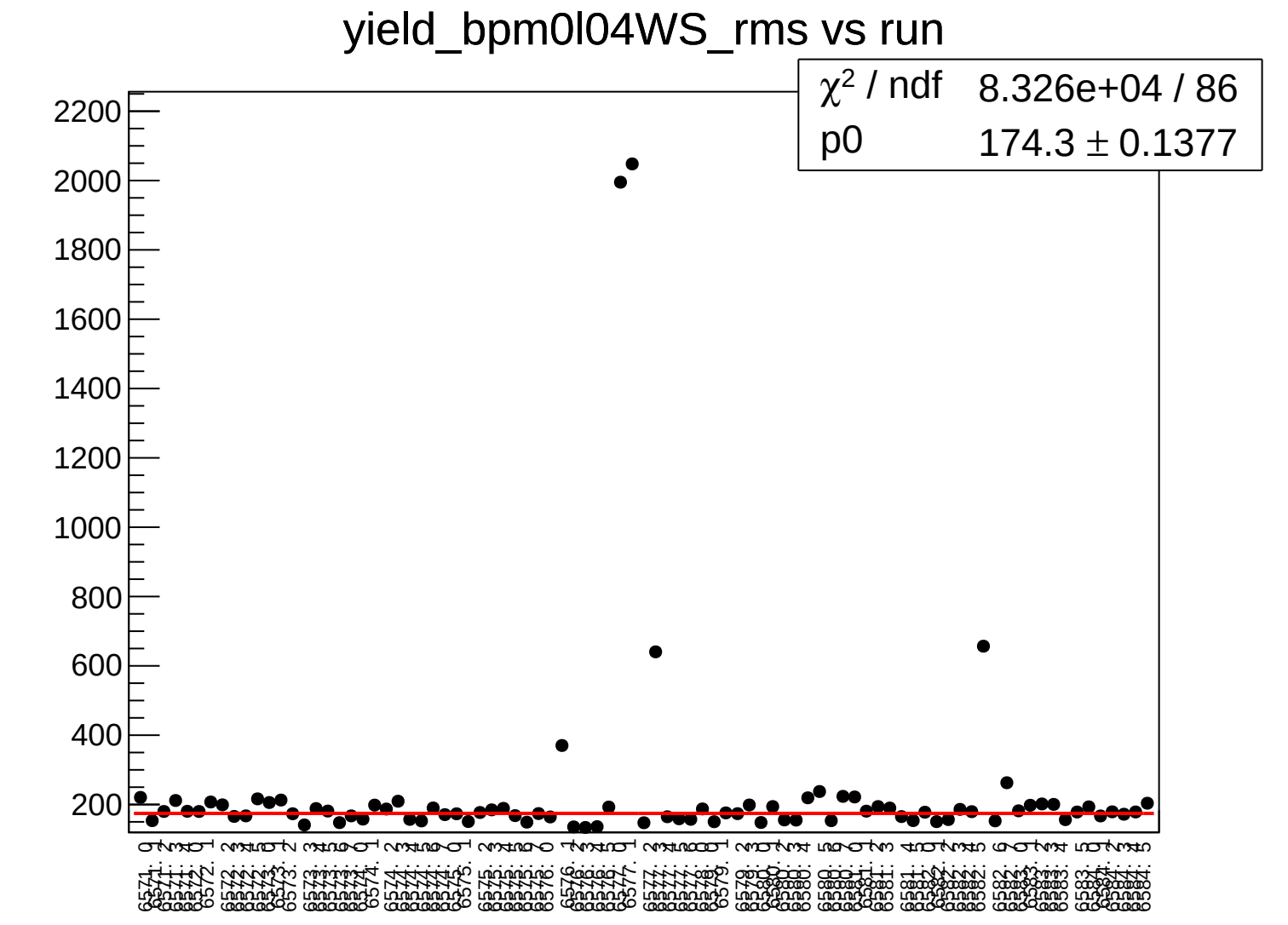

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.678e+05 / 86
p0 1.342e+05 ± 0.6184
135
134.5
134
133.5
133
132.5
132
131.5
131
pull
Entries 87
Mean 26.75
Std Dev 48.3
150
100
50
0
−50
−100
−150

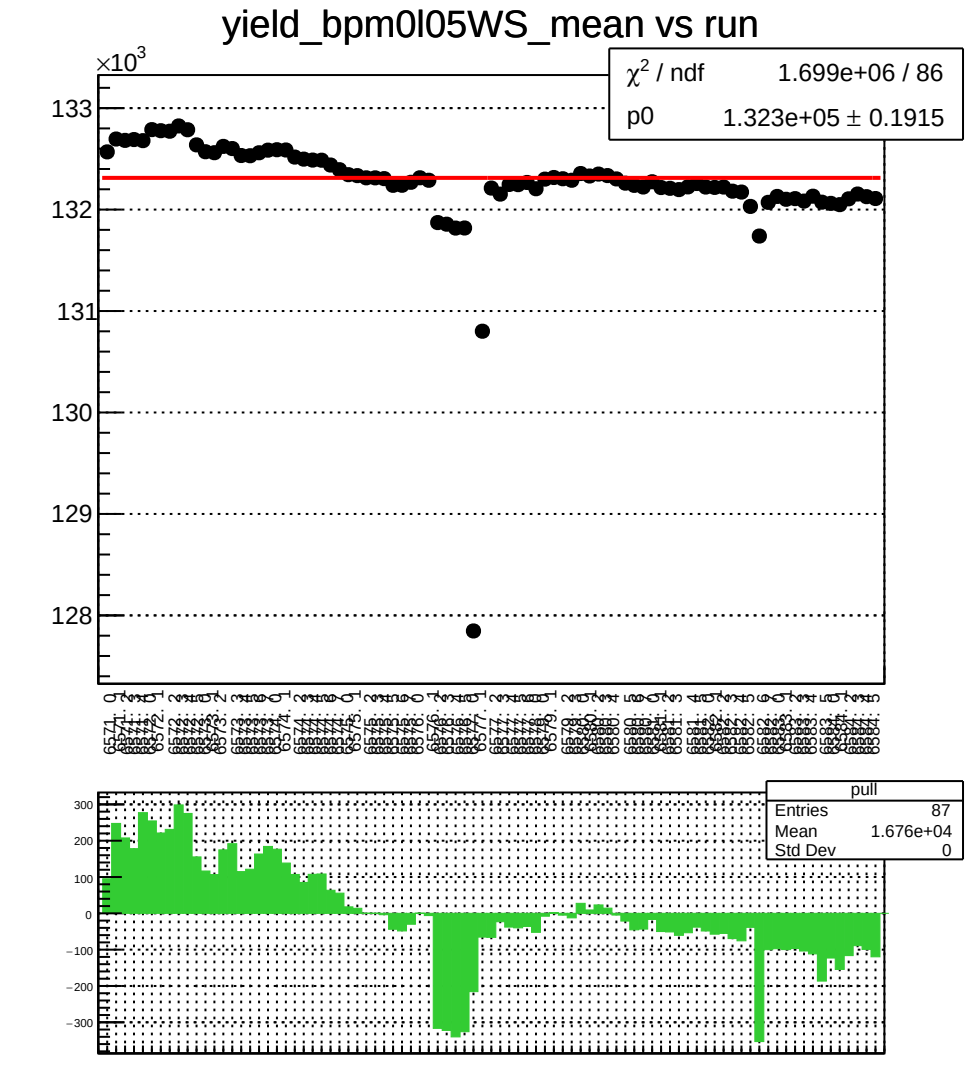

pull1D
Entries 87
Mean −0.1057
Std Dev 4.58
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

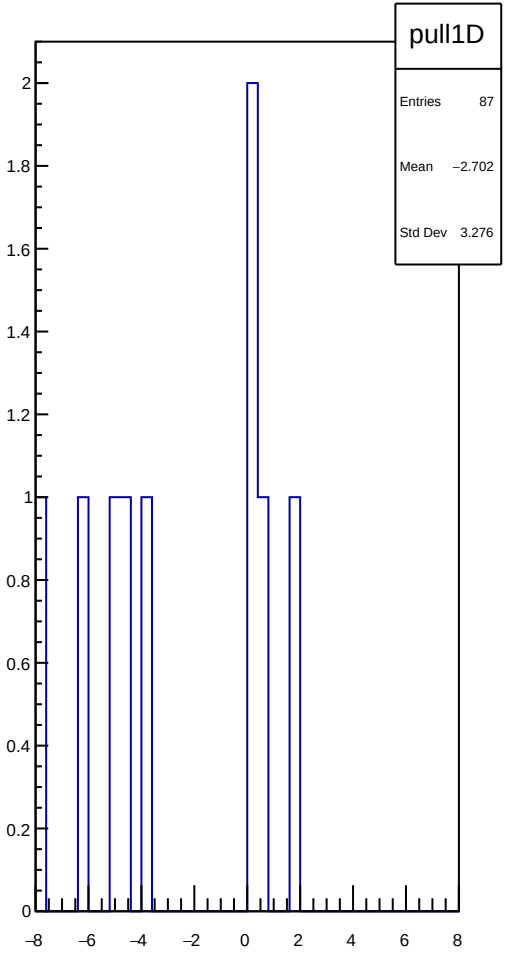

yield_bpm0l03WS_rms vs run
χ² / ndf 2.004e+05 / 86
p0 533.1 ± 0.4373
3000
2500
2000
1500
1000
500

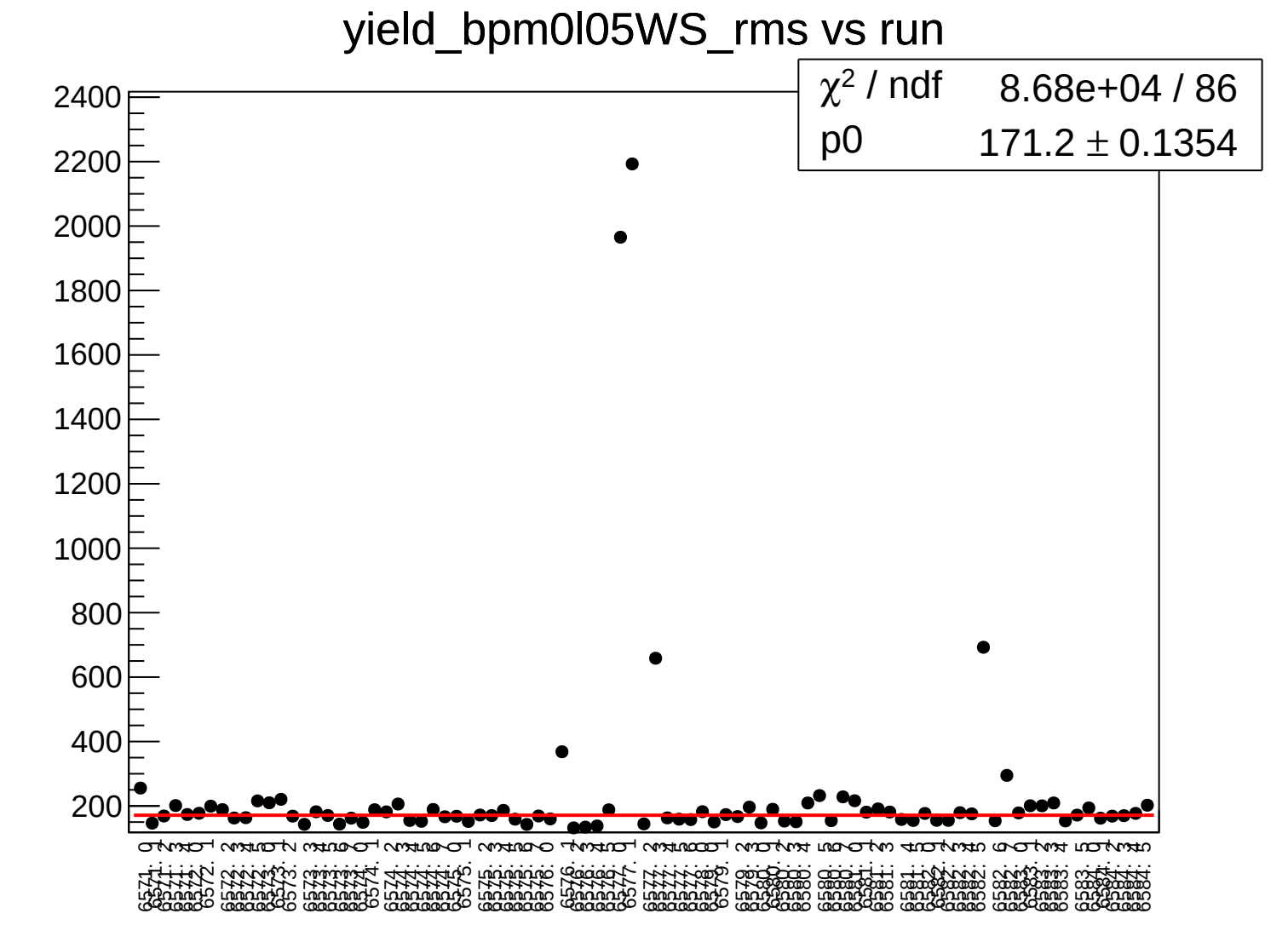

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.462e+05 / 86
p0 1.289e+05 ± 0.1947
129
128.5
128
127.5
127
126.5
126
125.5
125
pull
Entries 87
Mean 331.8
Std Dev 0
100
50
0
−50
−100
−150

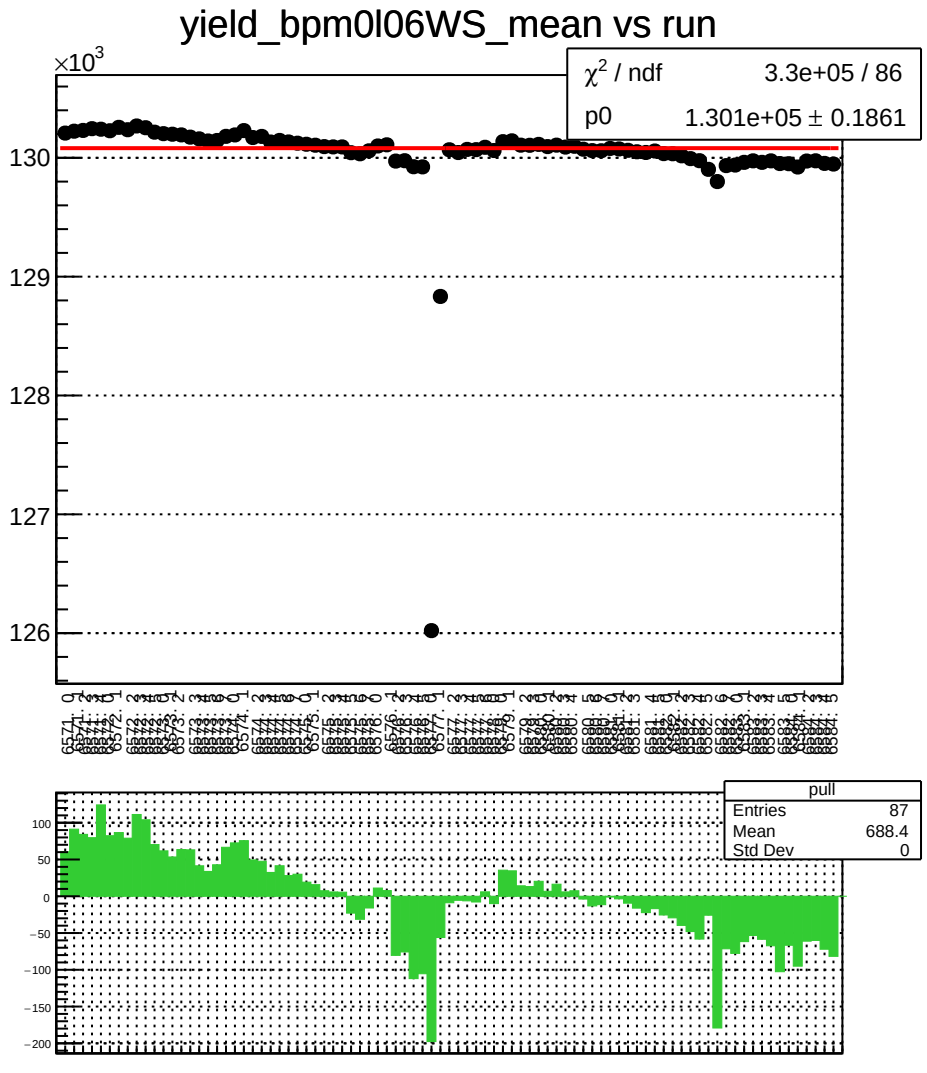

pull1D
Entries 87
Mean 0.4946
Std Dev 4.406
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

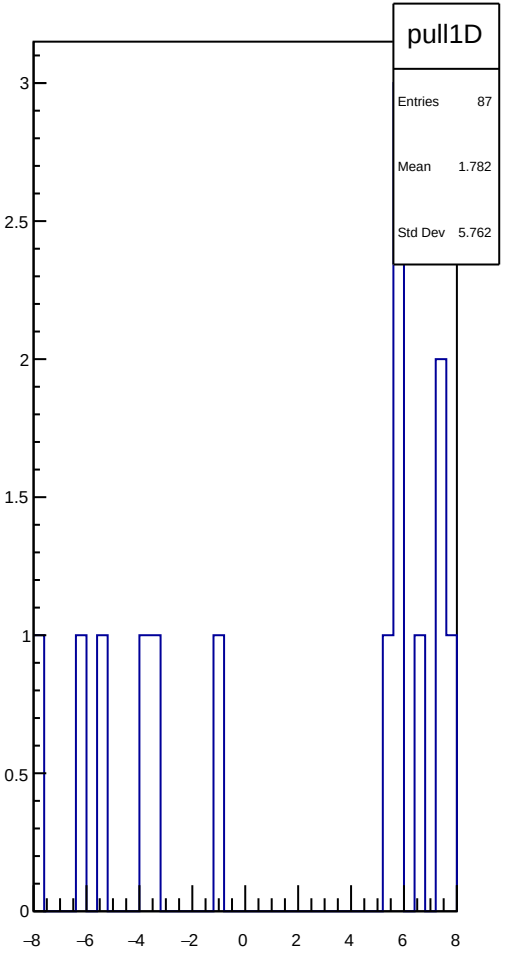

yield_bpm0l04WS_rms vs run
χ^2 / ndf 8.326e+04 / 86
p0 174.3 ± 0.1377
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

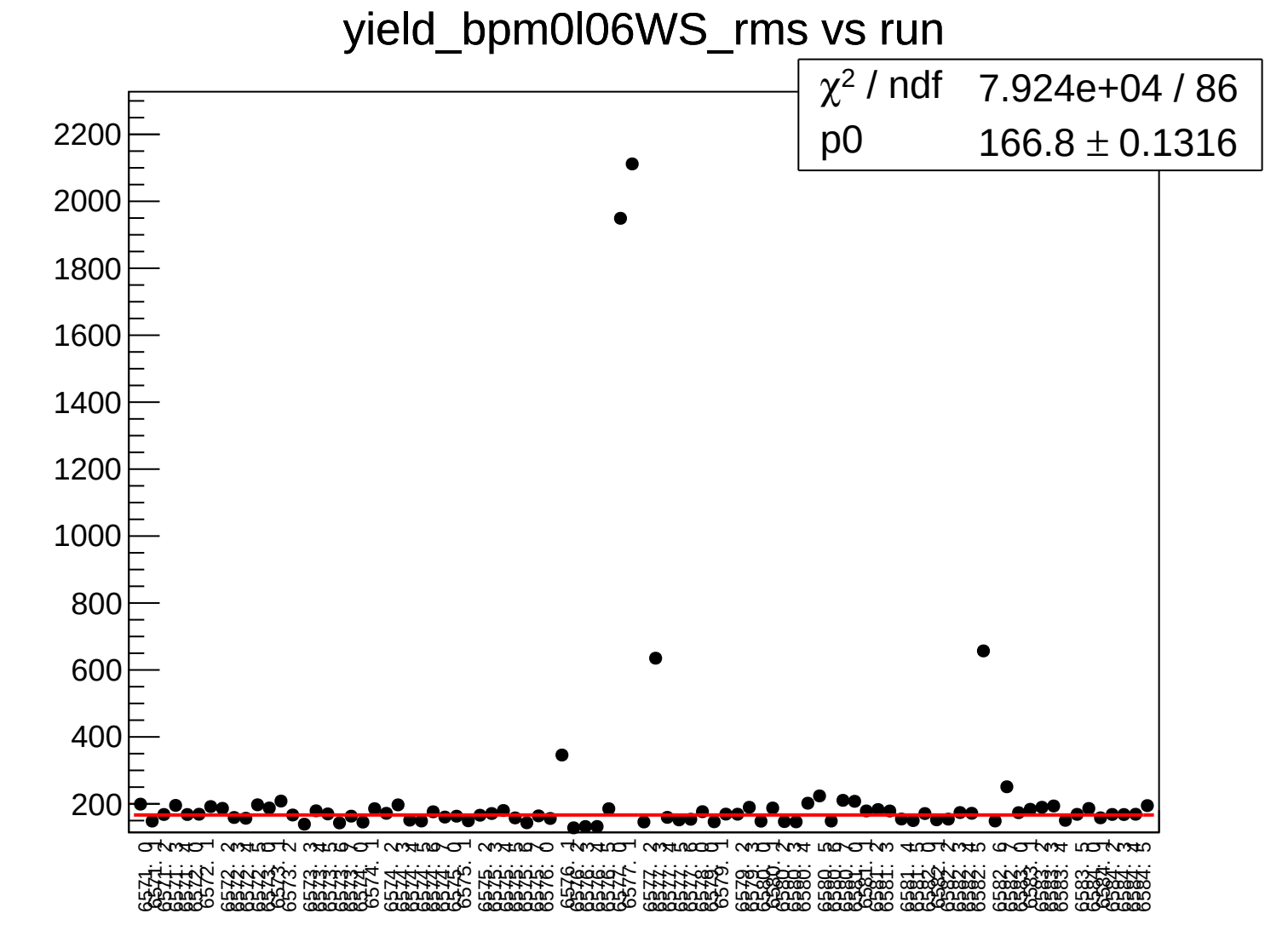

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.699e+06 / 86
p0 1.323e+05 ± 0.1915
133
132
131
130
129
128
pull
Entries 87
Mean 1.676e+04
Std Dev 0
300
200
100
0
−100
−200
−300

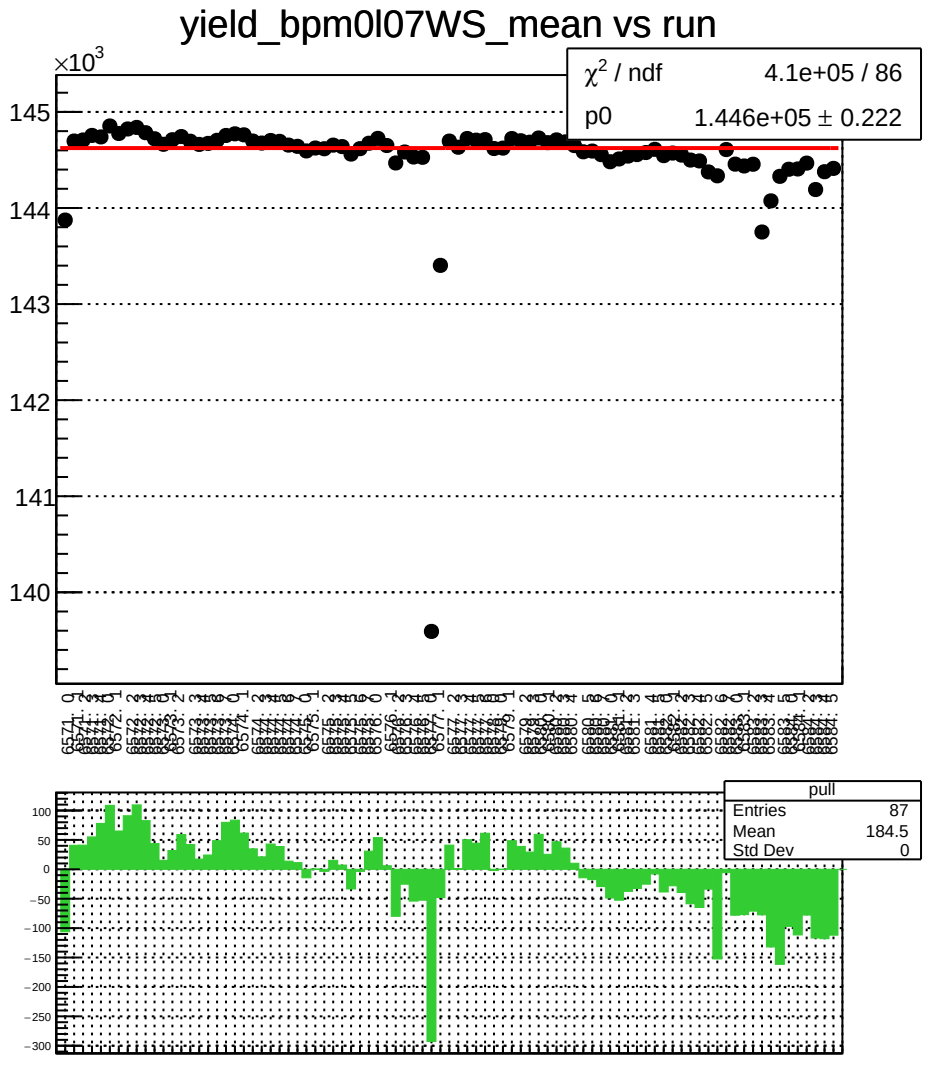

pull1D
Entries 87
Mean −2.702
Std Dev 3.276
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

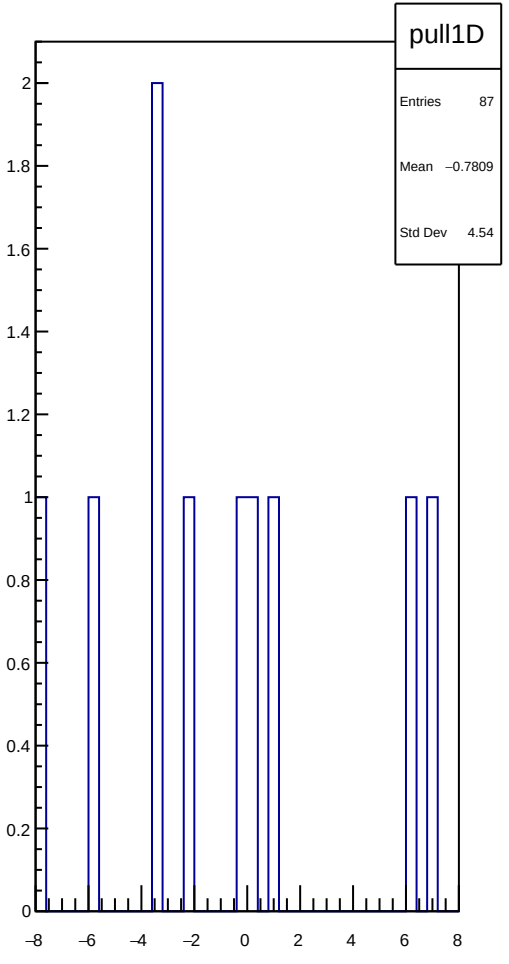

yield_bpm0l05WS_rms vs run
χ² / ndf 8.68e+04 / 86
p0 171.2 ± 0.1354
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

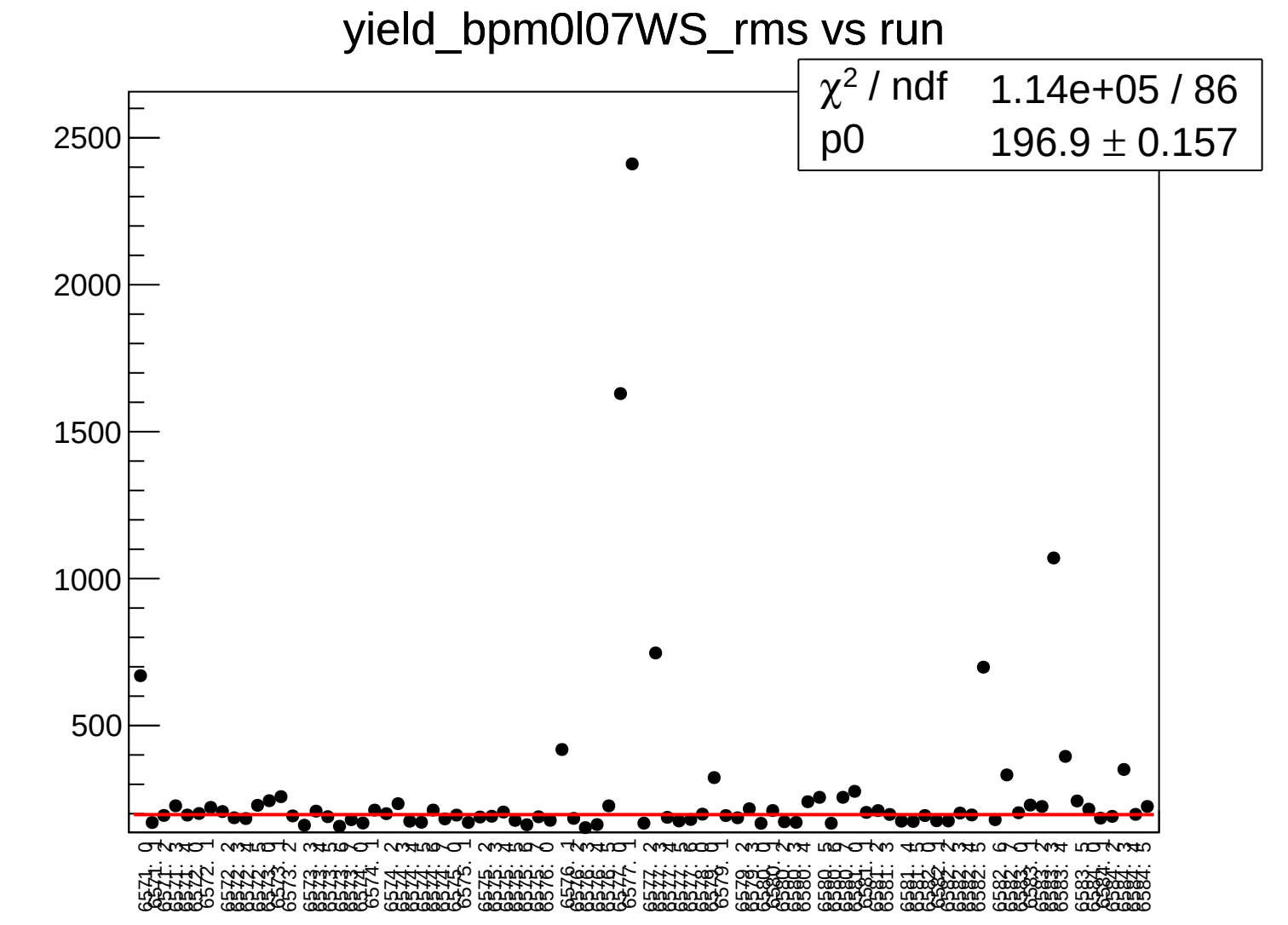

yield_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 3.3e+05 / 86
p0 1.301e+05 ± 0.1861
130
129
128
127
126
pull
Entries 87
Mean 688.4
Std Dev 0
100
50
0
−50
−100
−150
−200

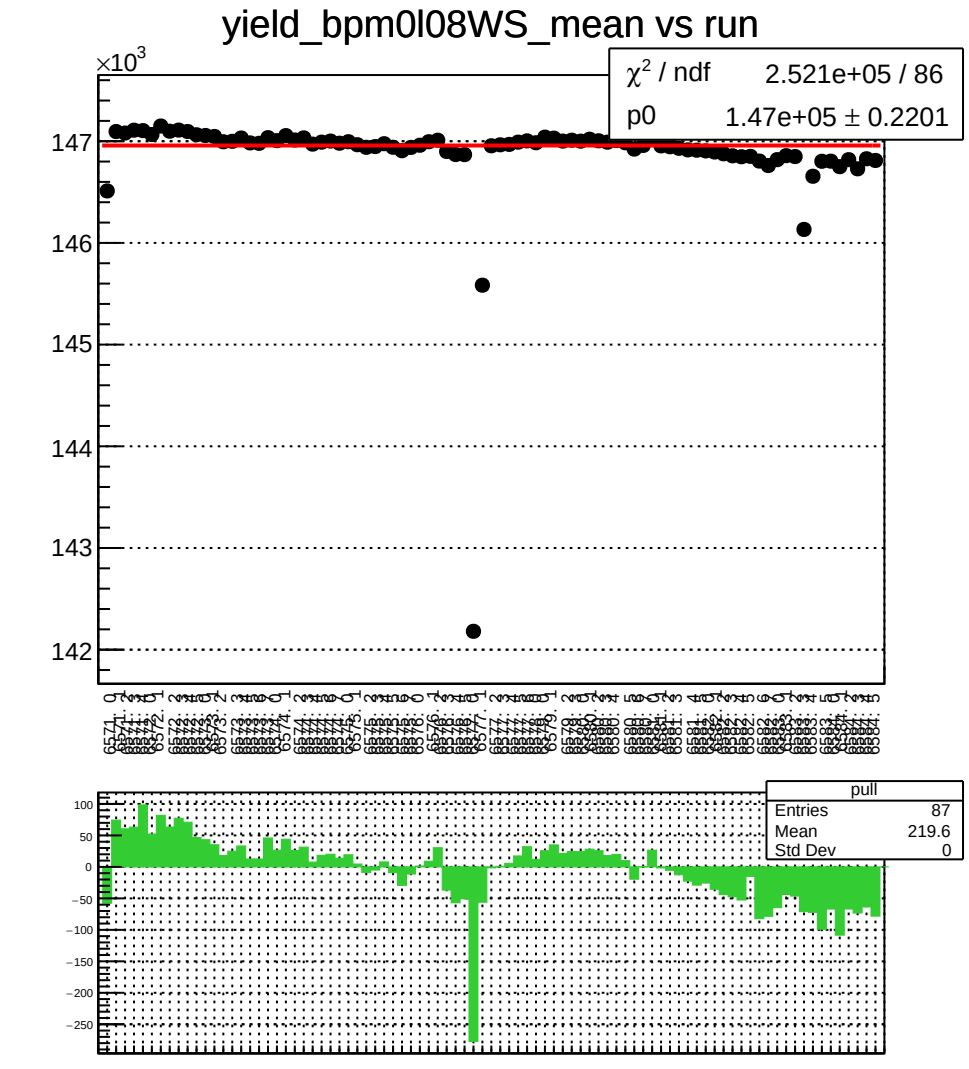

pull1D
Entries 87
Mean 1.782
Std Dev 5.762
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

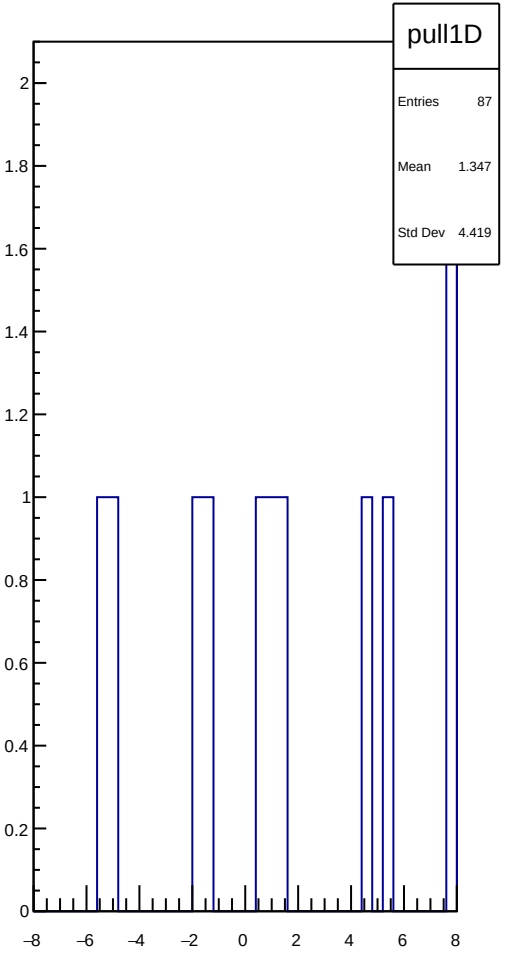

yield_bpm0l06WS_rms vs run
χ² / ndf 7.924e+04 / 86
p0 166.8 ± 0.1316
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

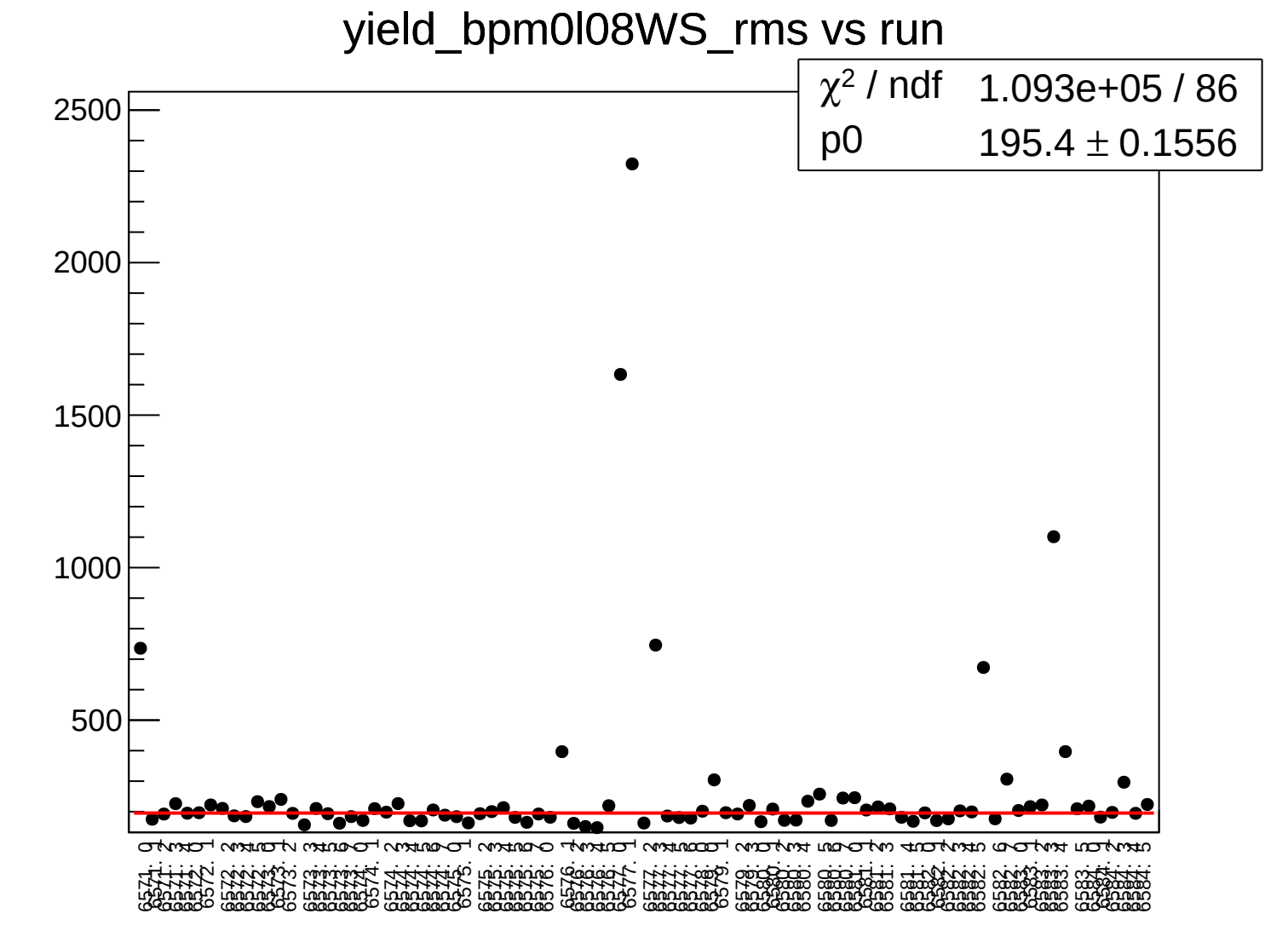

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 4.1e+05 / 86
p0 1.446e+05 ± 0.222
145
144
143
142
141
140
pull
Entries 87
Mean 184.5
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300

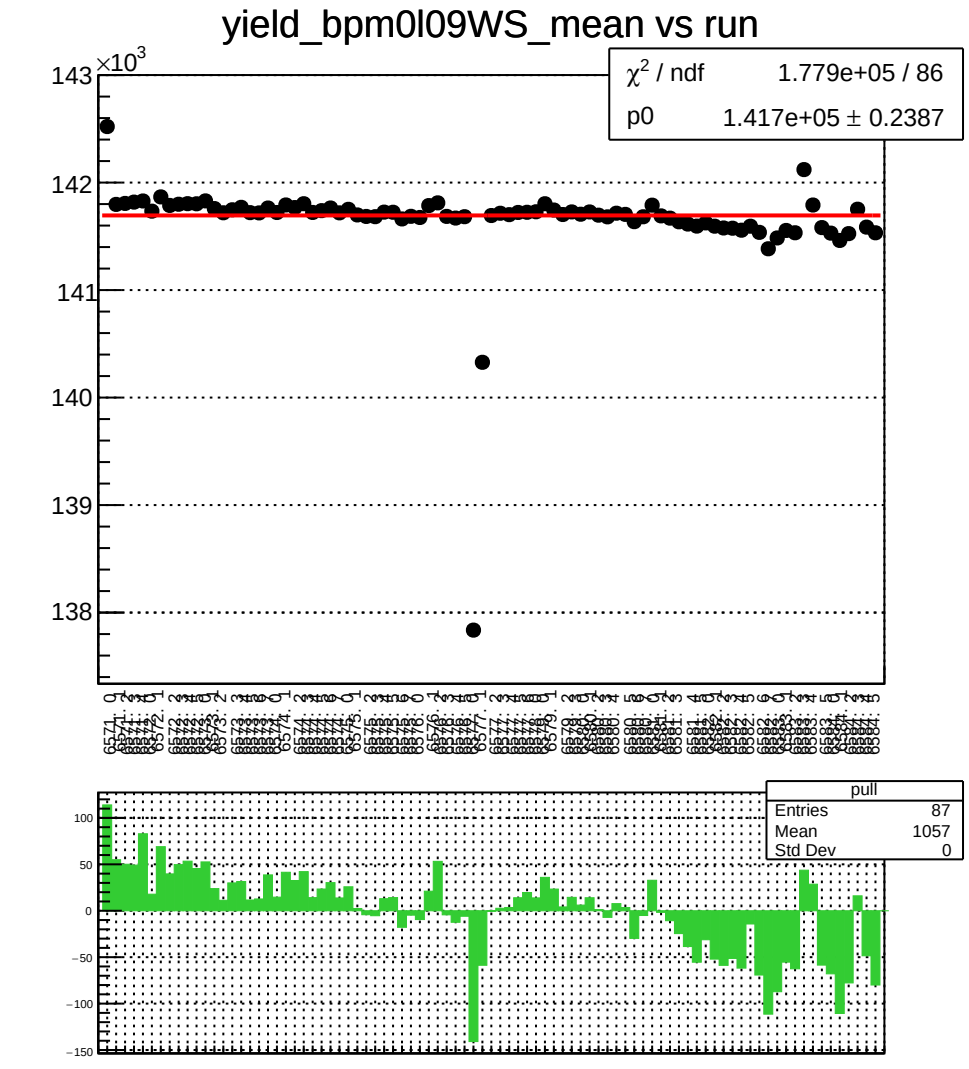

pull1D
Entries 87
Mean −0.7809
Std Dev 4.54
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

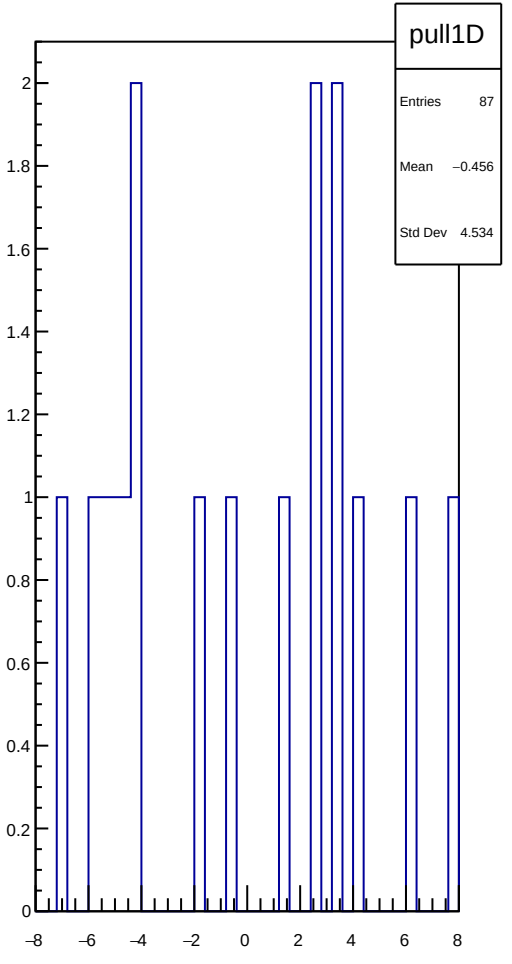

yield_bpm0l07WS_rms vs run
χ² / ndf 1.14e+05 / 86
p0 196.9 ± 0.157
2500
2000
1500
1000
500

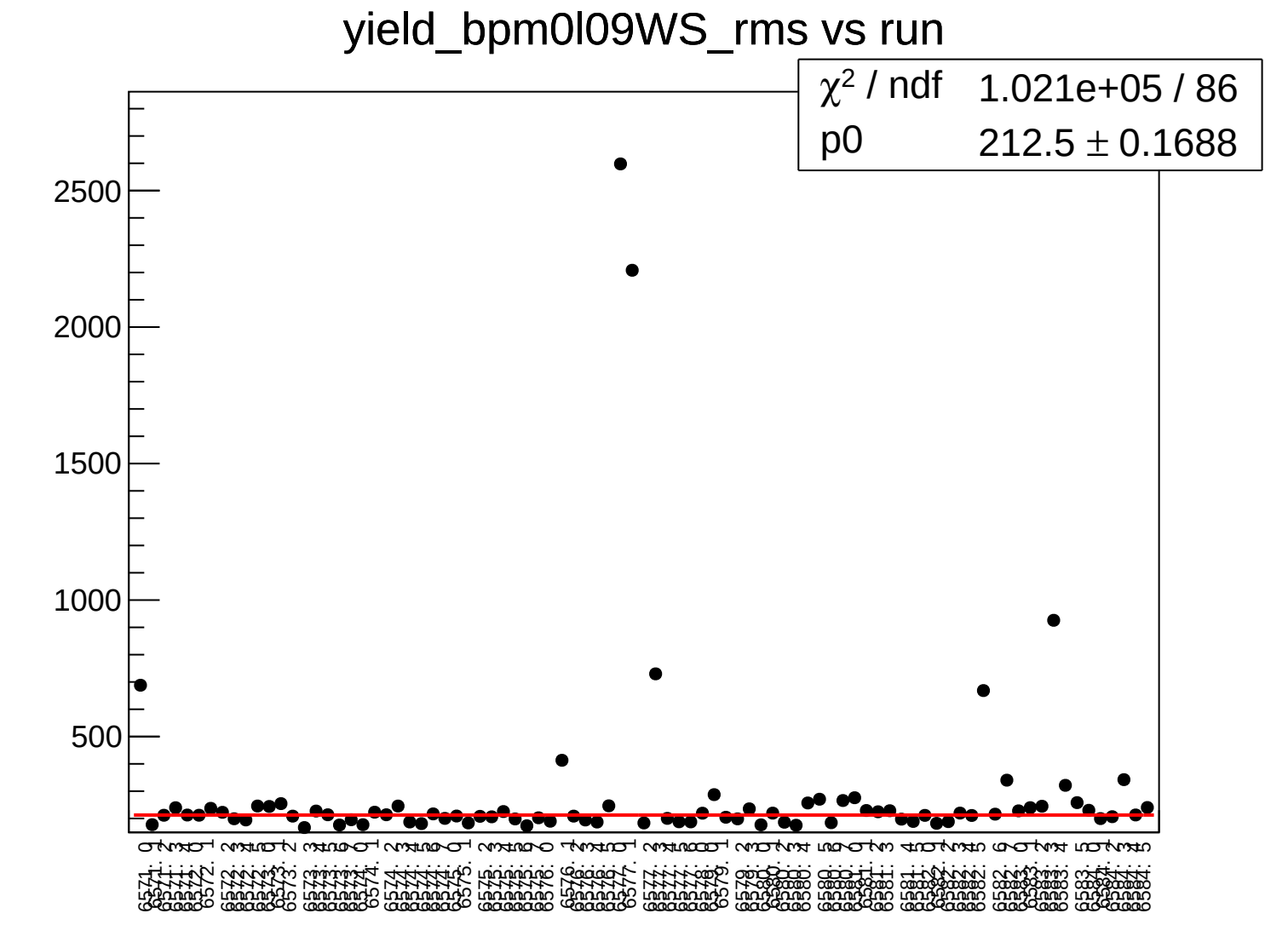

yield_bpm0l08WS_mean vs run
χ² / ndf 2.521e+05 / 86
p0 1.47e+05 ± 0.2201
×10³
147
146
145
144
143
142
pull
Entries 87
Mean 219.6
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

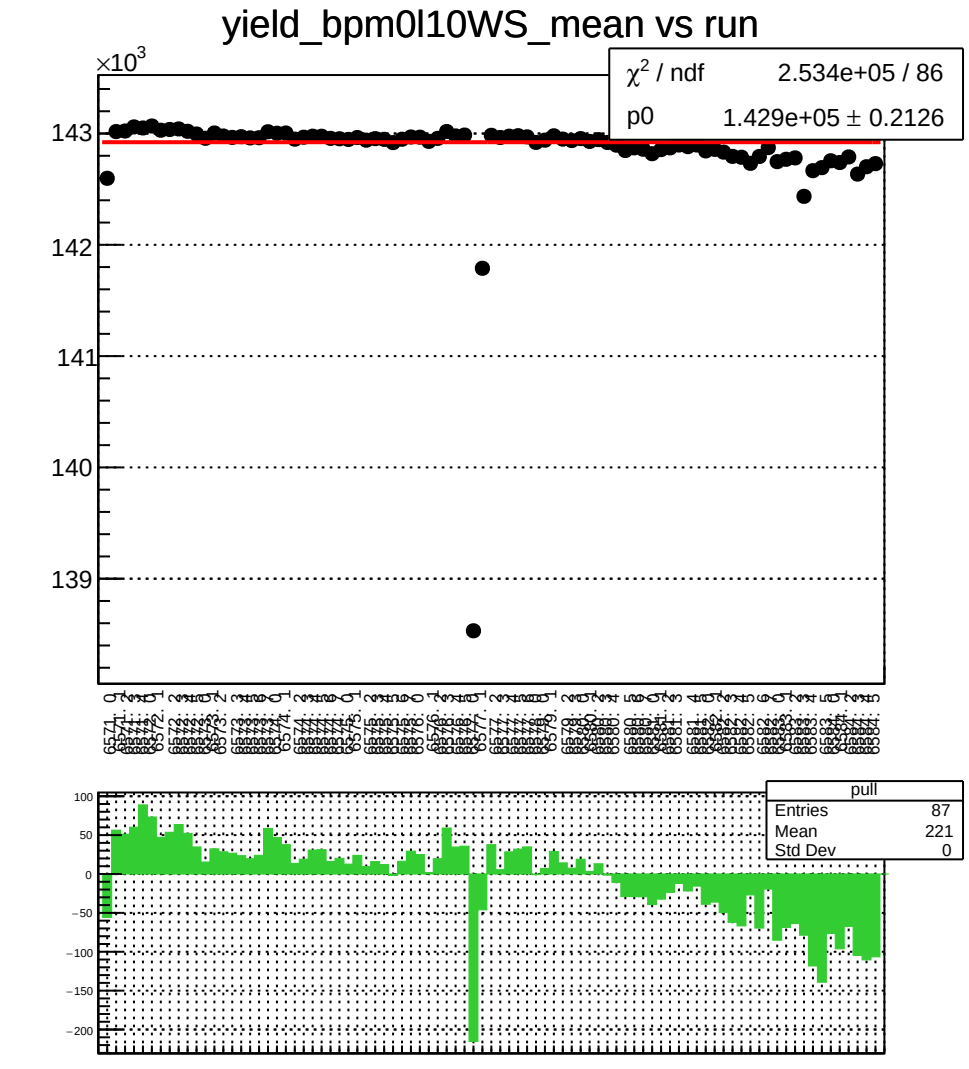

pull1D
Entries 87
Mean 1.347
Std Dev 4.419
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

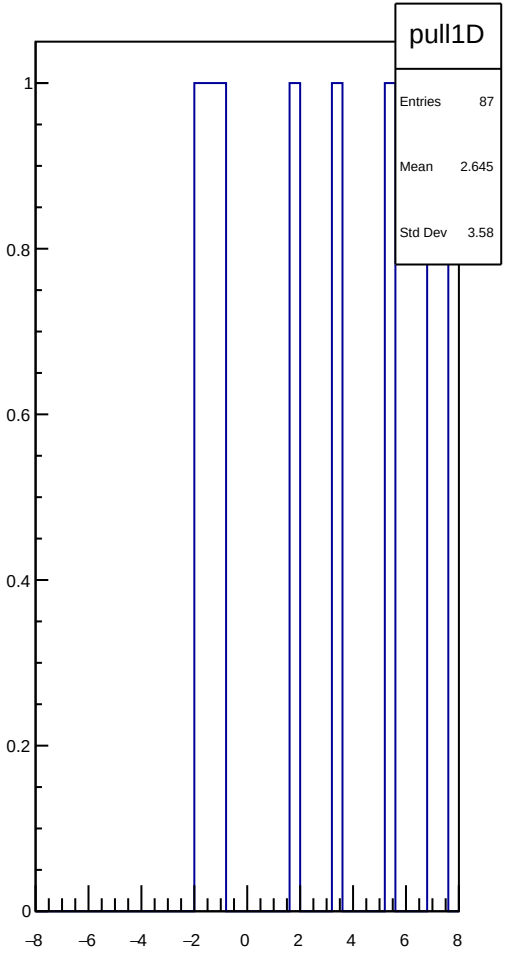

yield_bpm0l08WS_rms vs run
χ² / ndf 1.093e+05 / 86
p0 195.4 ± 0.1556
2500
2000
1500
1000
500

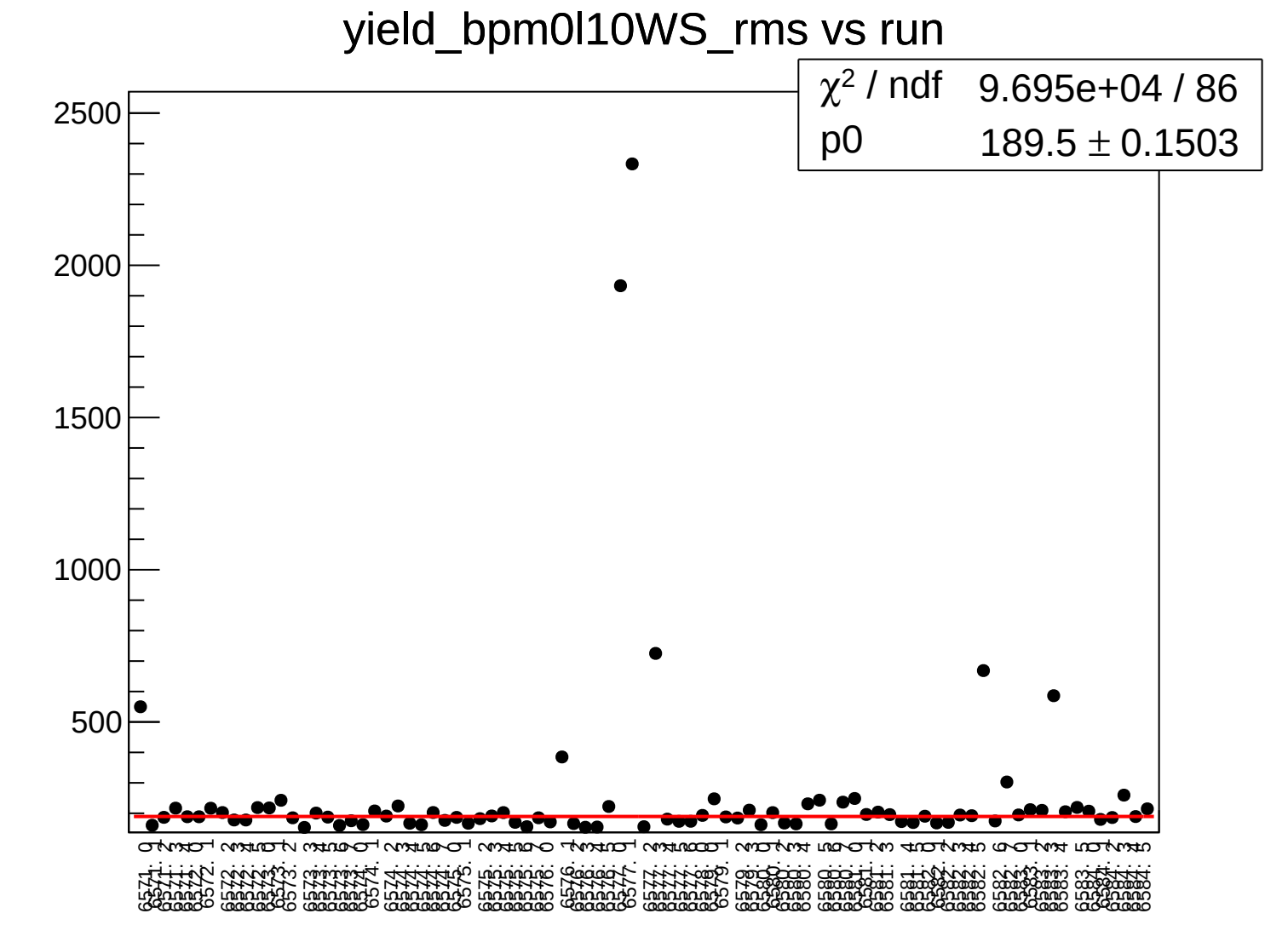

yield_bpm0l09WS_mean vs run
χ² / ndf 1.779e+05 / 86
p0 1.417e+05 ± 0.2387
×10³
143
142
141
140
139
138
pull
Entries 87
Mean 1057
Std Dev 0
100
50
0
−50
−100
−150

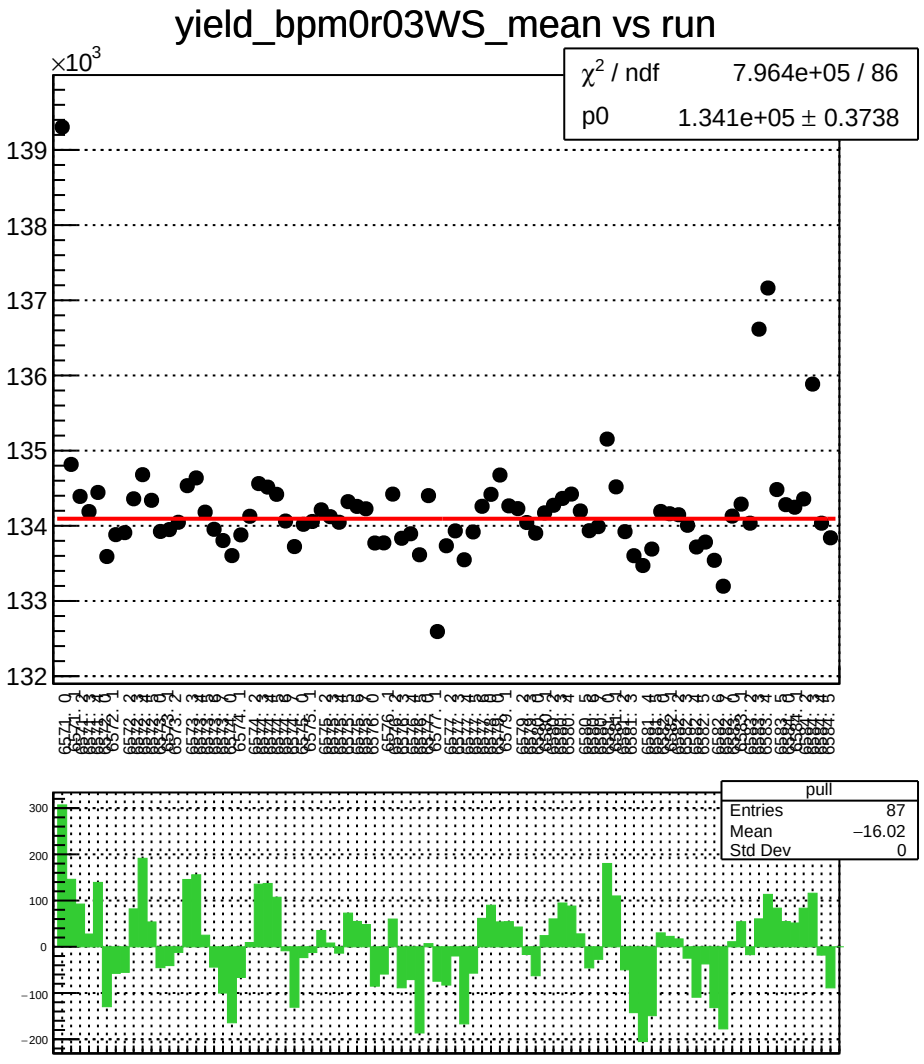

pull1D
Entries 87
Mean −0.456
Std Dev 4.534
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

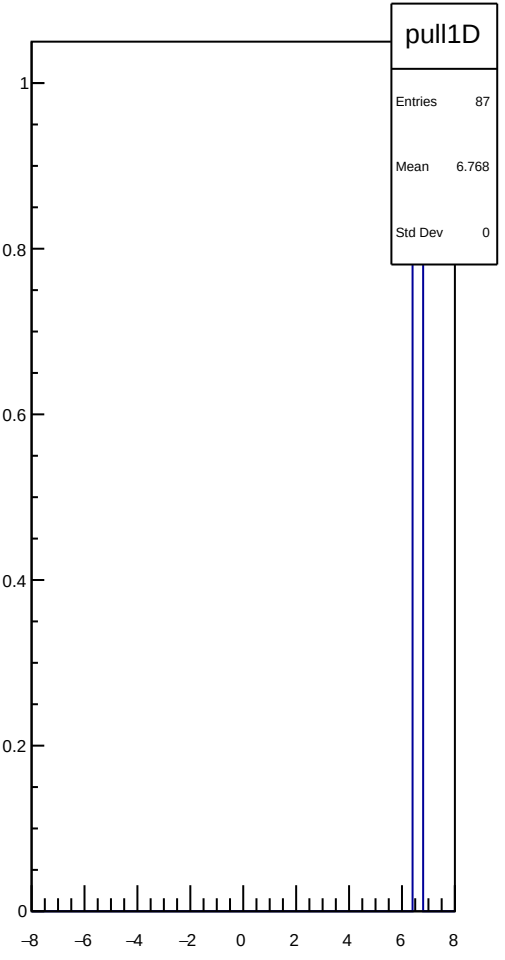

yield_bpm0l09WS_rms vs run
χ² / ndf 1.021e+05 / 86
p0 212.5 ± 0.1688
2500
2000
1500
1000
500

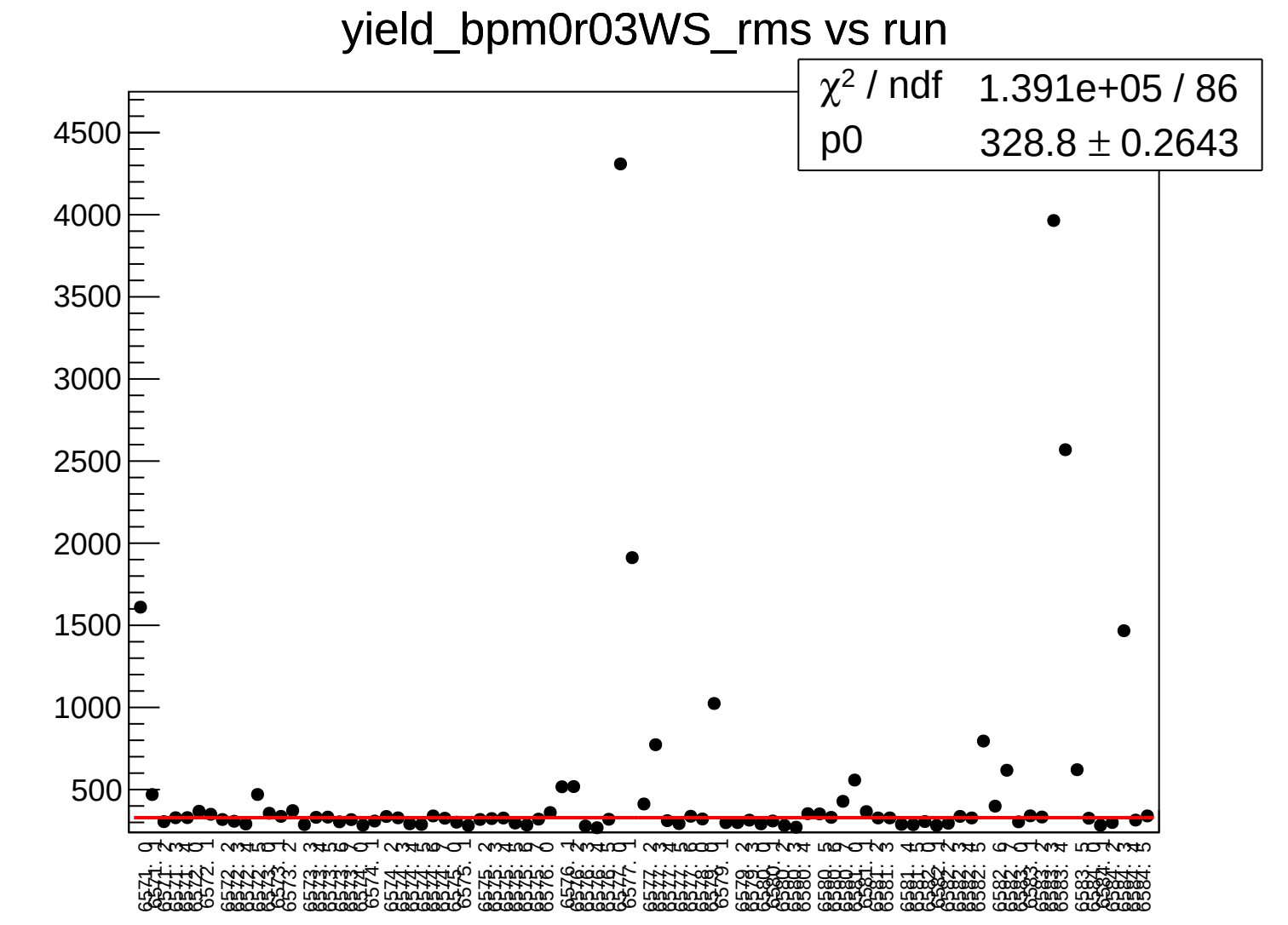

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 2.534e+05 / 86
p0 1.429e+05 ± 0.2126
143
142
141
140
139
pull
Entries 87
Mean 221
Std Dev 0
100
50
0
−50
−100
−150
−200

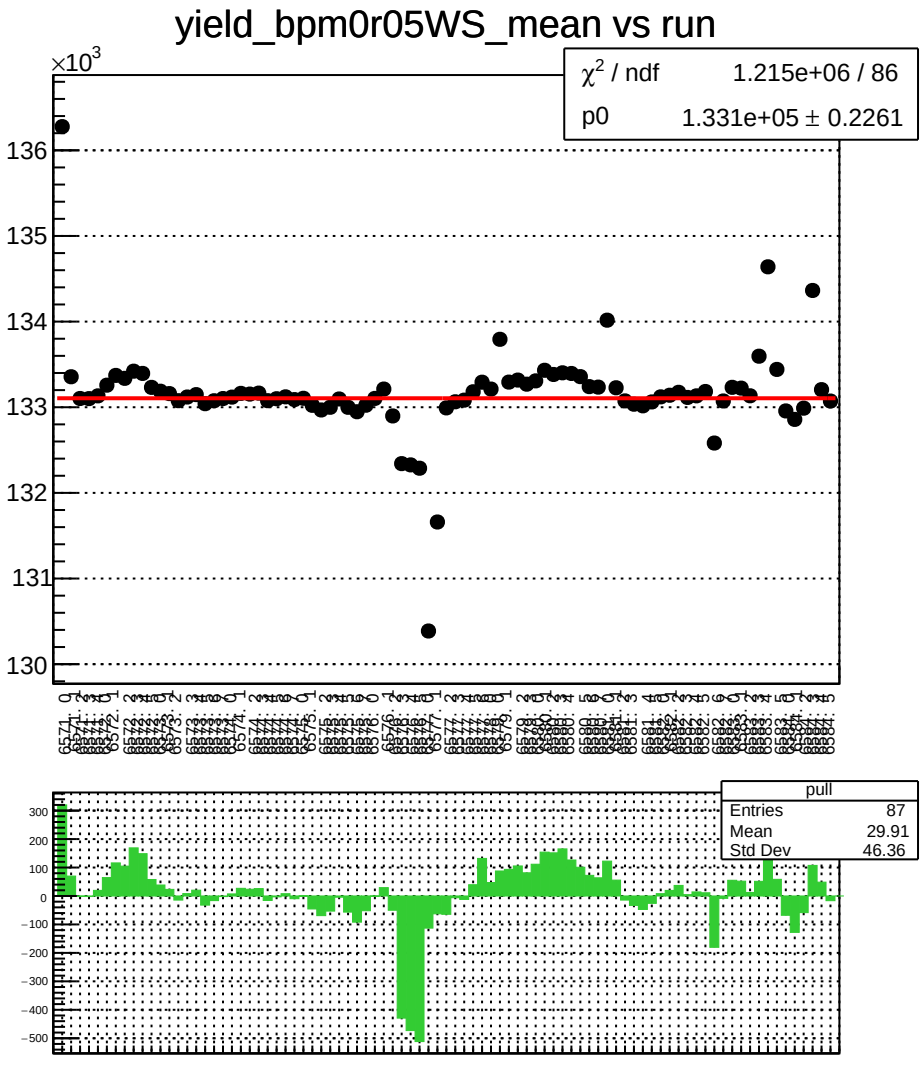

pull1D
Entries 87
Mean 2.645
Std Dev 3.58
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

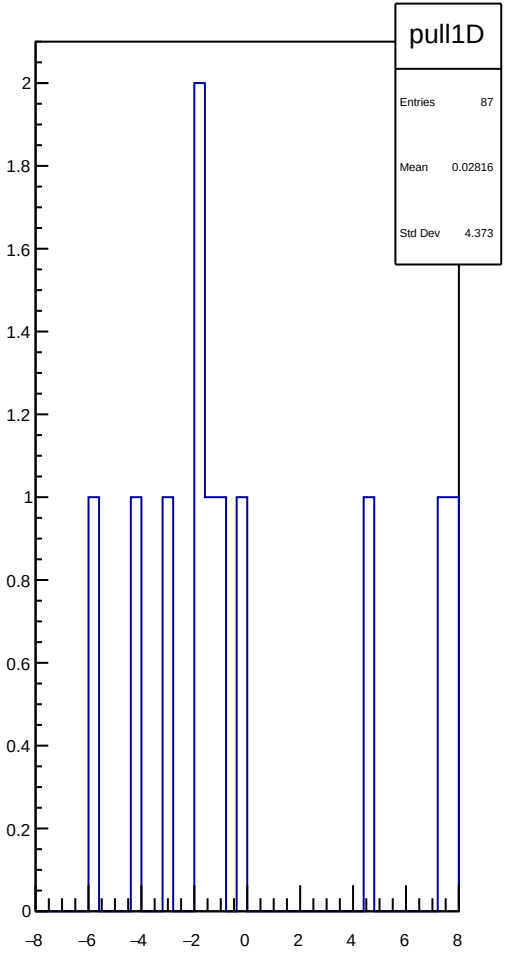

yield_bpm0l10WS_rms vs run
χ² / ndf 9.695e+04 / 86
p0 189.5 ± 0.1503
2500
2000
1500
1000
500

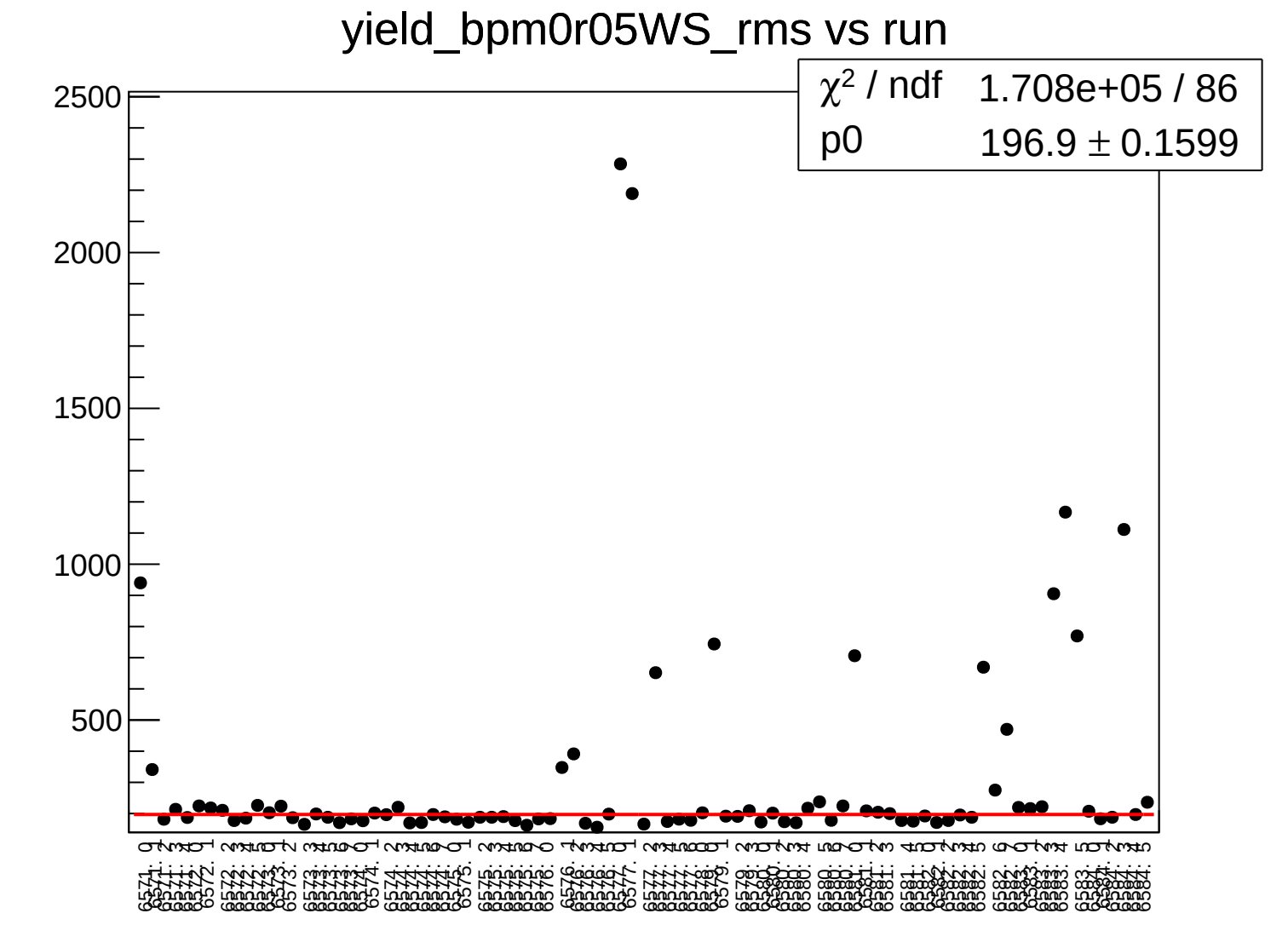

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 7.964e+05 / 86
p0 1.341e+05 ± 0.3738
139
138
137
136
135
134
133
132
pull
Entries 87
Mean −16.02
Std Dev 0
300
200
100
0
−100
−200

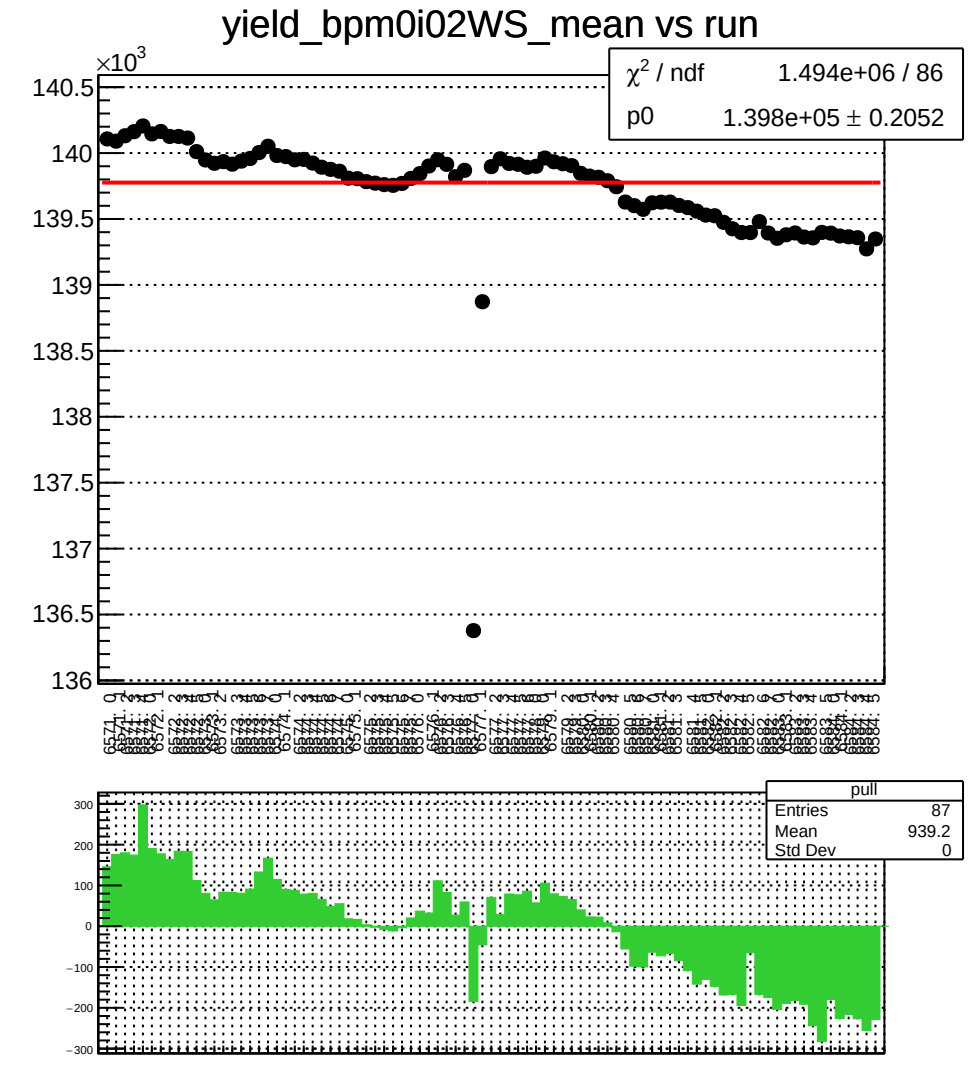

pull1D
Entries 87
Mean 6.768
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

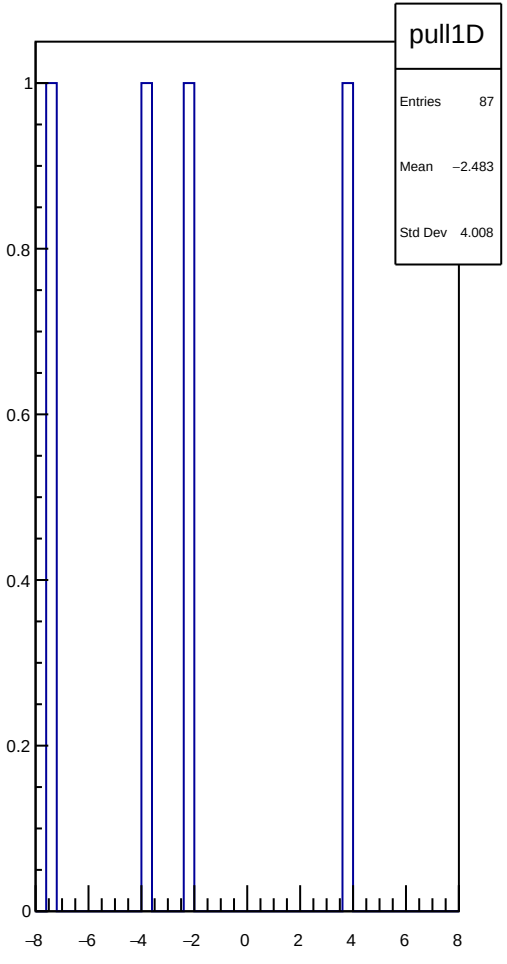

yield_bpm0r03WS_rms vs run
χ² / ndf 1.391e+05 / 86
p0 328.8 ± 0.2643
4500
4000
3500
3000
2500
2000
1500
1000
500

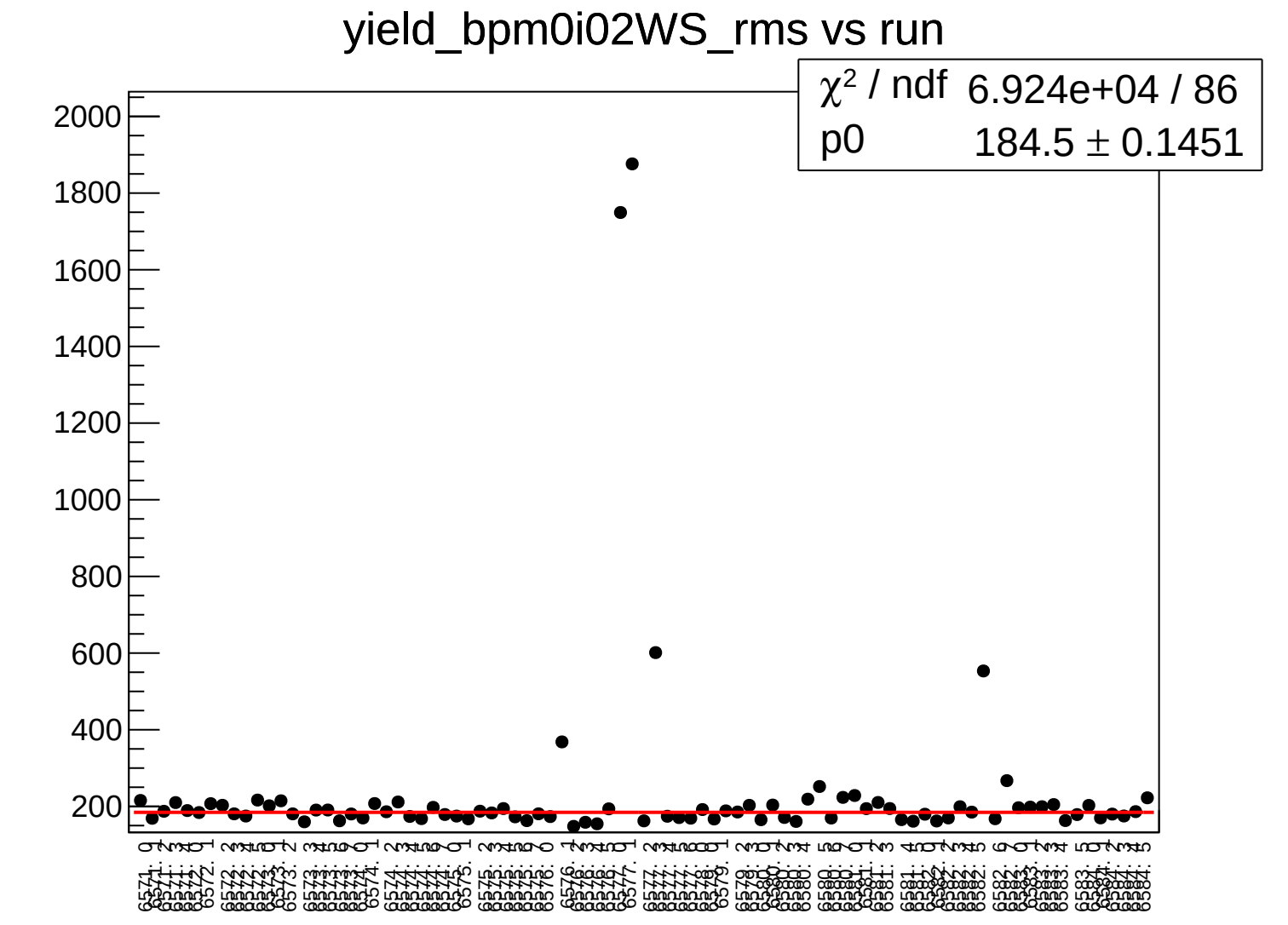

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 1.215e+06 / 86
p0 1.331e+05 ± 0.2261
136
135
134
133
132
131
130
pull
Entries 87
Mean 29.91
Std Dev 46.36
300
200
100
0
−100
−200
−300
−400
−500

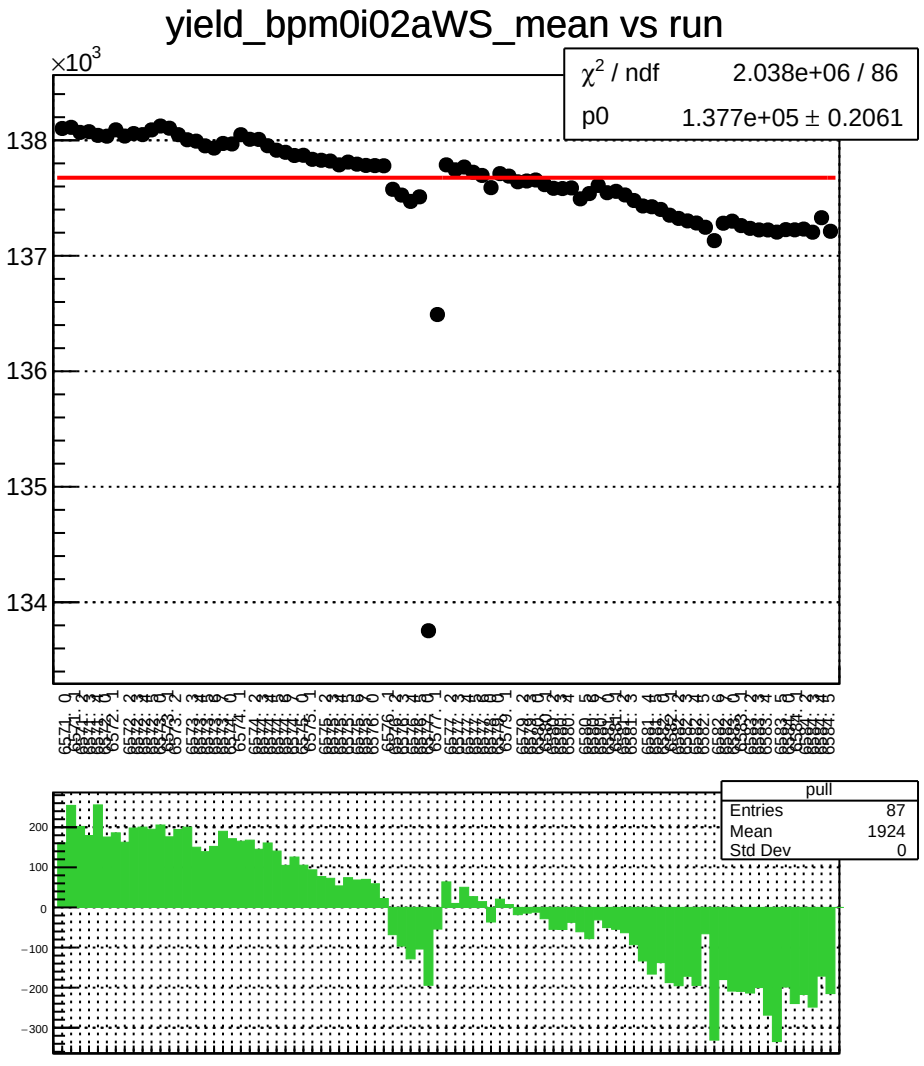

pull1D
Entries 87
Mean 0.02816
Std Dev 4.373
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

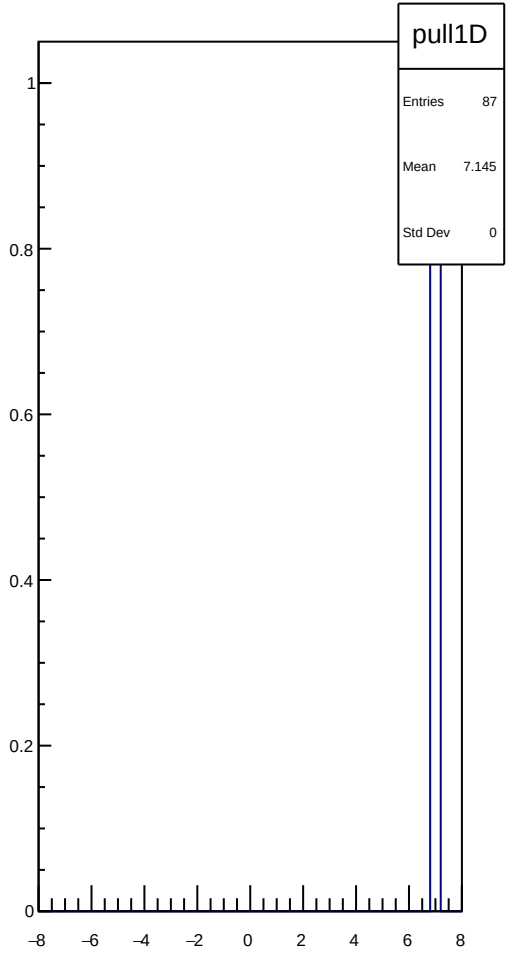

yield_bpm0r05WS_rms vs run
χ² / ndf 1.708e+05 / 86
p0 196.9 ± 0.1599
2500
2000
1500
1000
500

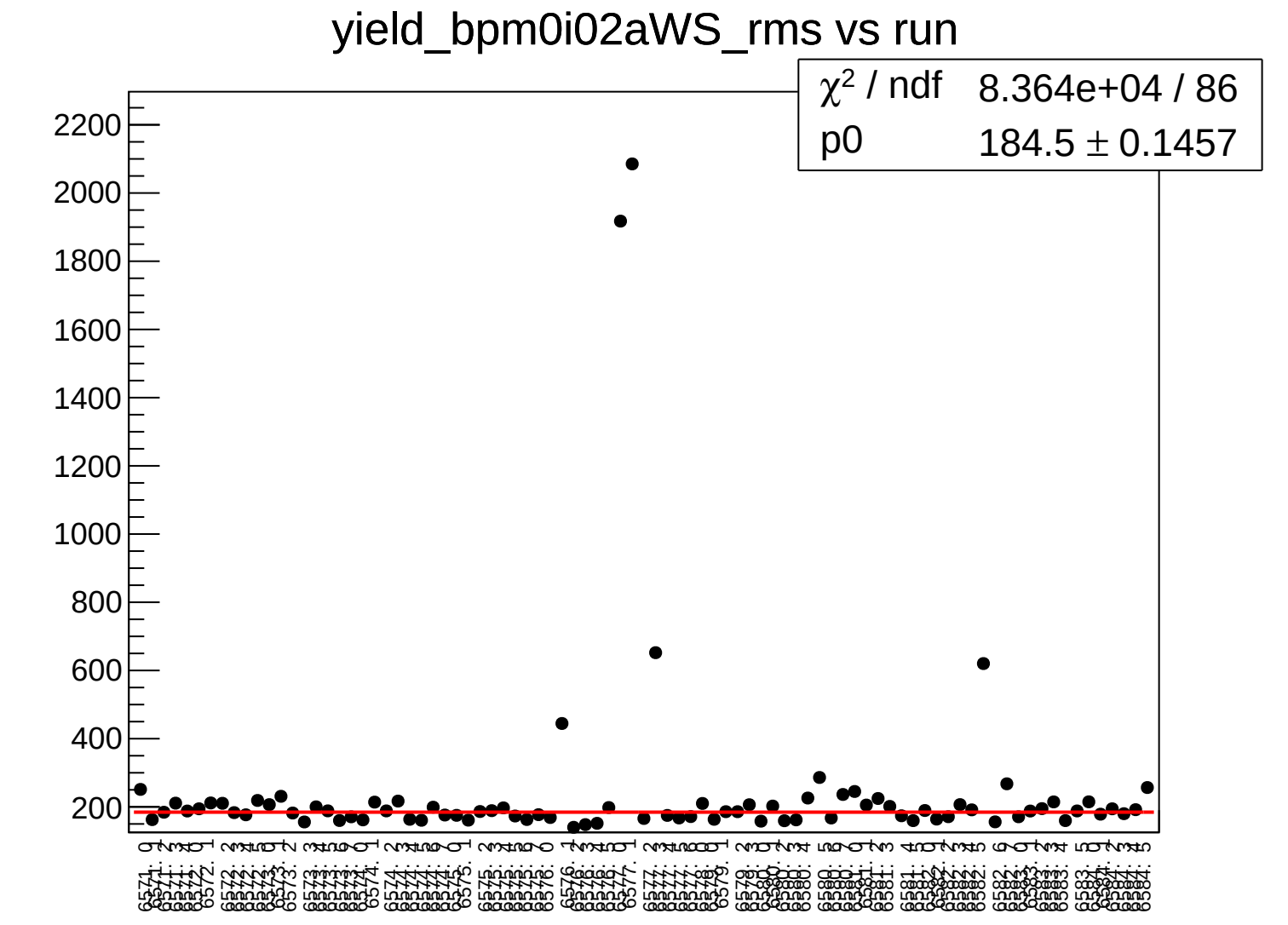

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 1.494e+06 / 86
p0 1.398e+05 ± 0.2052
140.5
140
139.5
139
138.5
138
137.5
137
136.5
136
pull
Entries 87
Mean 939.2
Std Dev 0
300
200
100
0
−100
−200
−300

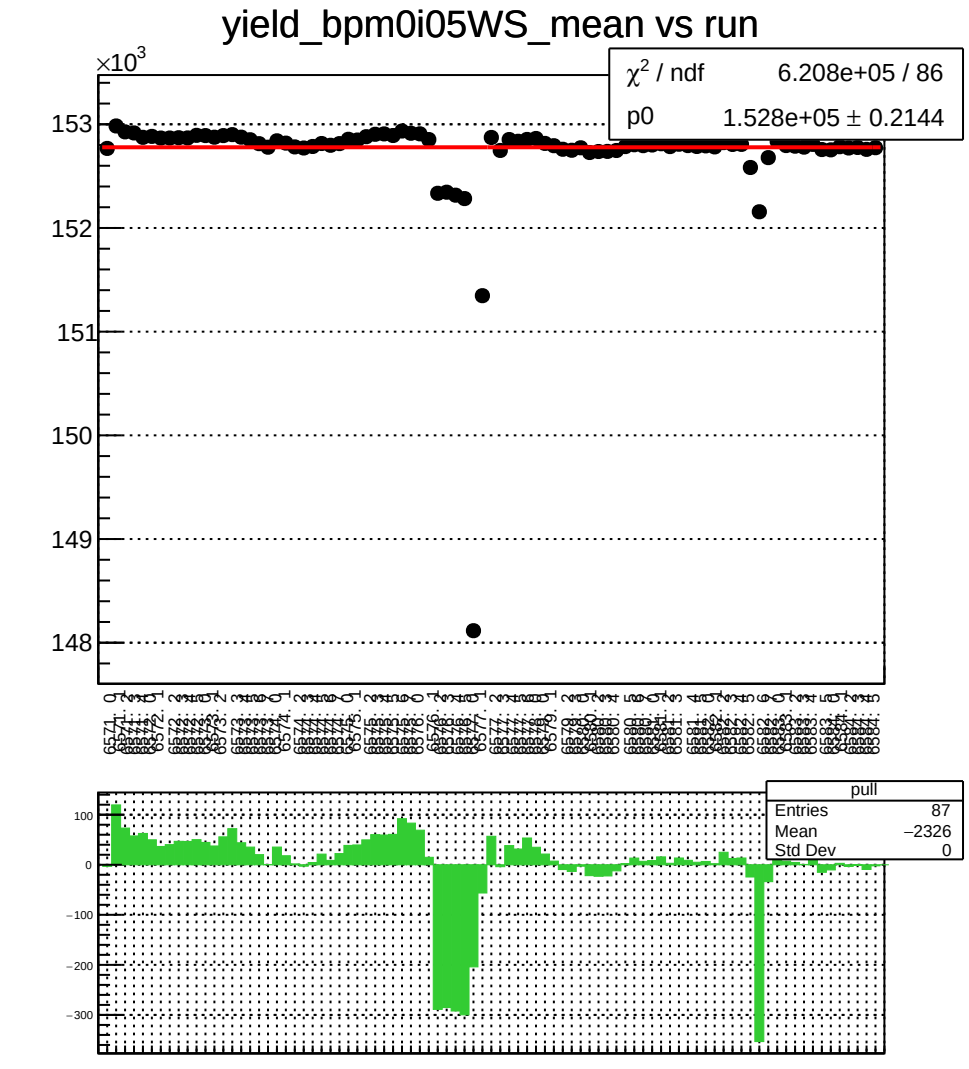

pull1D
Entries 87
Mean −2.483
Std Dev 4.008
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

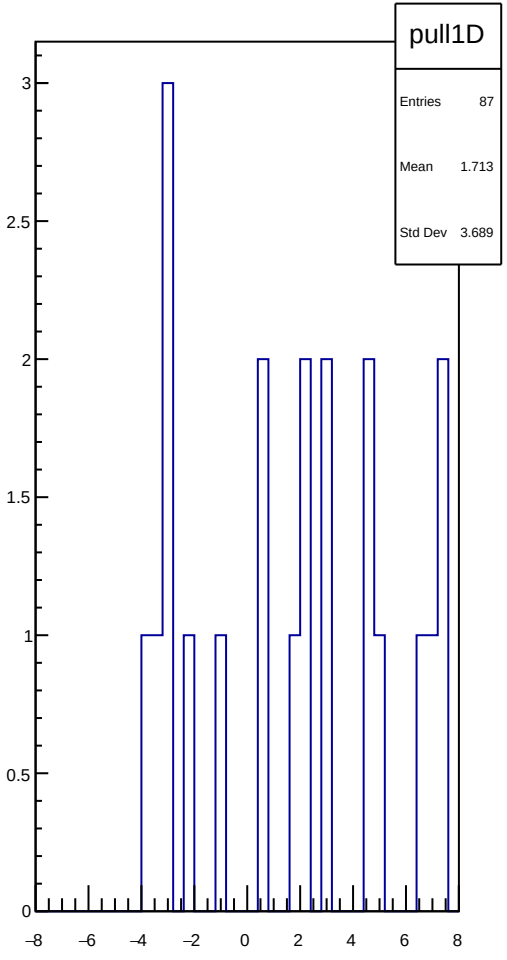

yield_bpm0i02WS_rms vs run
χ² / ndf 6.924e+04 / 86
p0 184.5 ± 0.1451
2000
1800
1600
1400
1200
1000
800
600
400
200

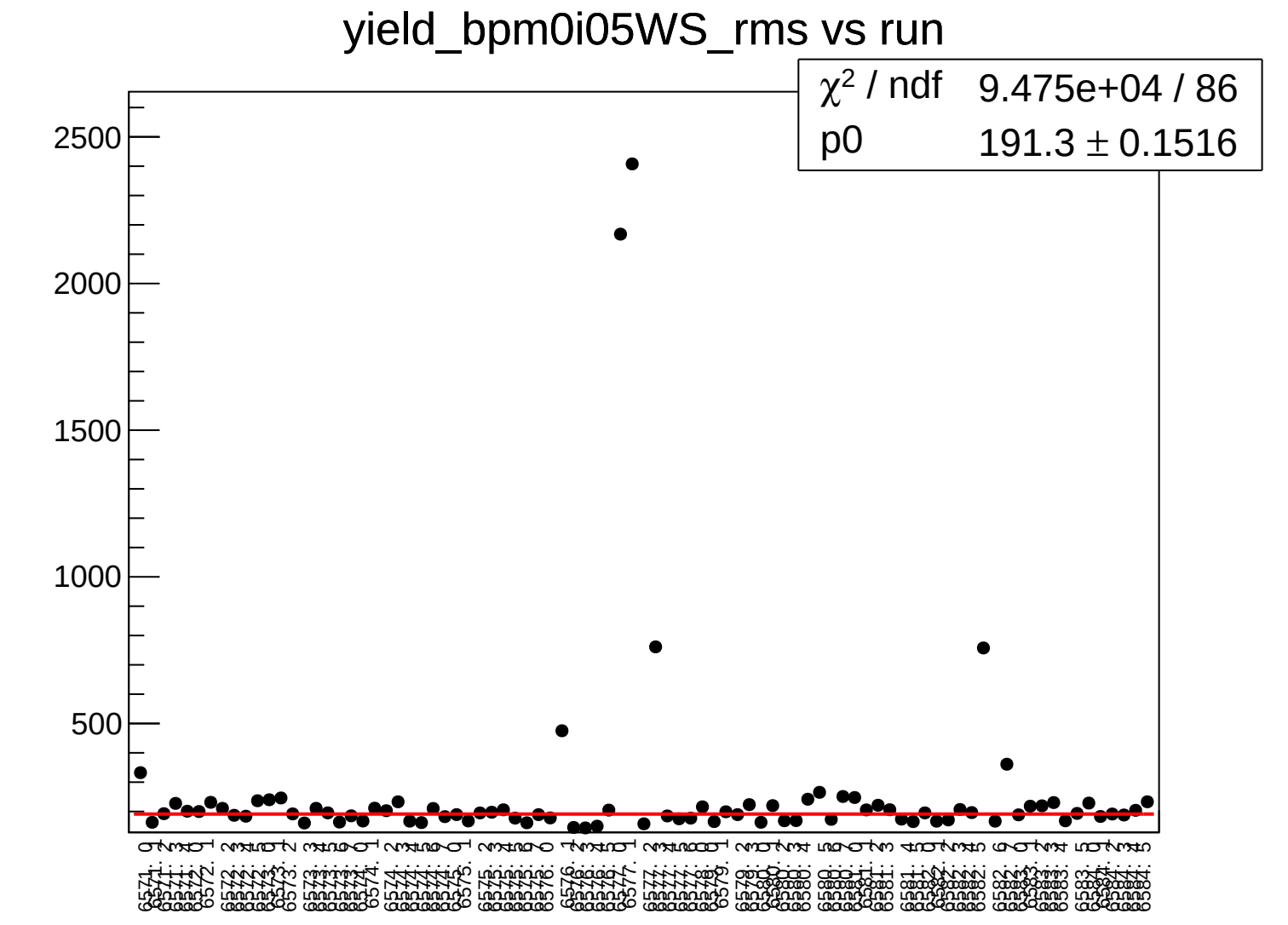

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.038e+06 / 86
p0 1.377e+05 ± 0.2061
138
137
136
135
134
pull
Entries 87
Mean 1924
Std Dev 0
200
100
0
−100
−200
−300

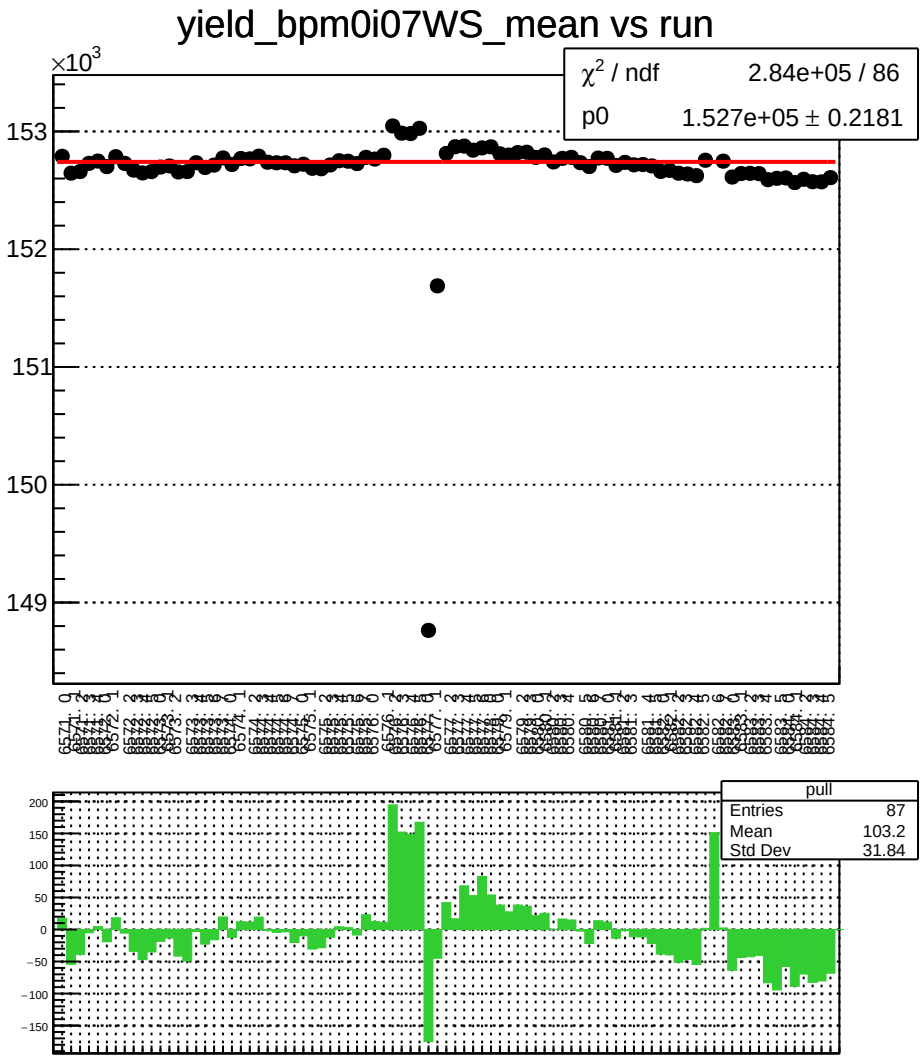

pull1D
Entries 87
Mean 7.145
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

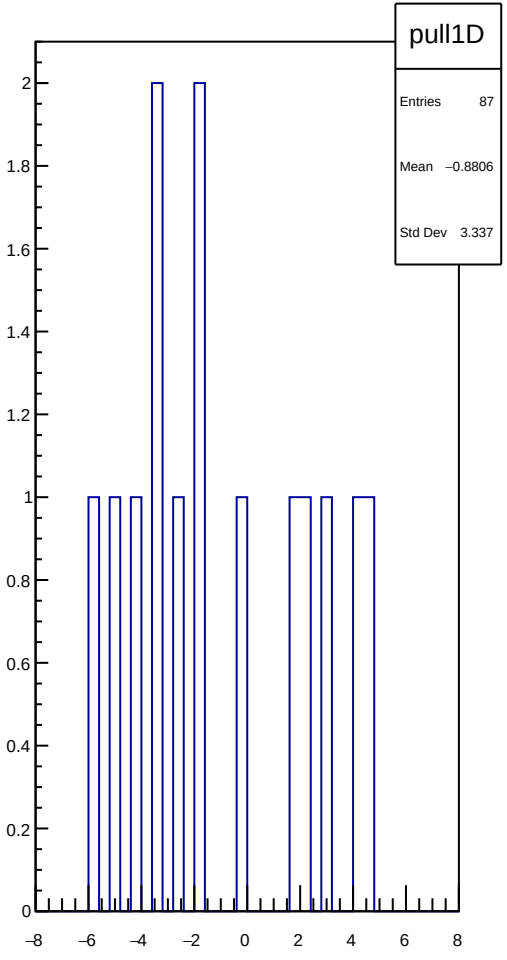

yield_bpm0i02aWS_rms vs run
χ² / ndf 8.364e+04 / 86
p0 184.5 ± 0.1457
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

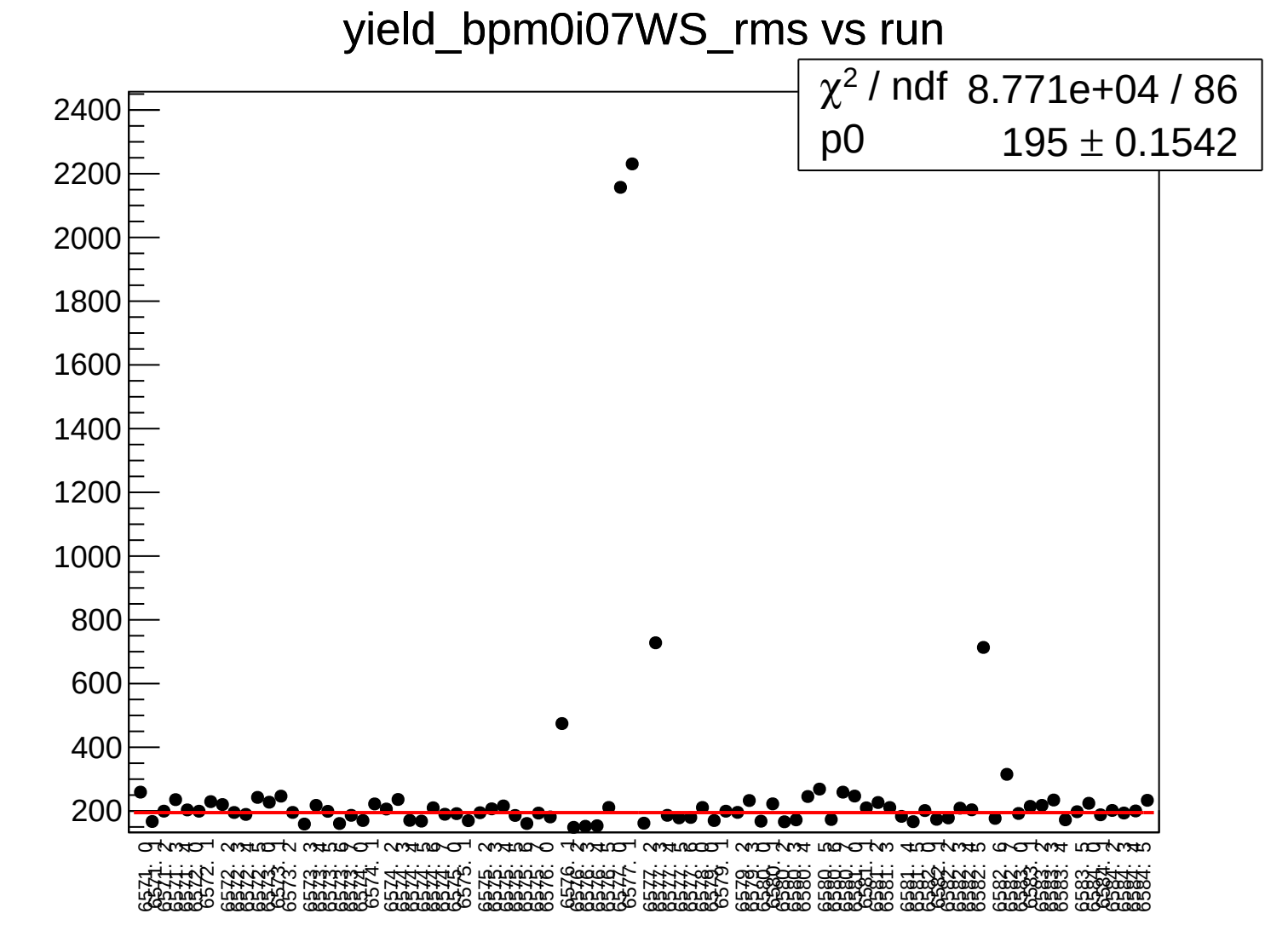

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 6.208e+05 / 86
p0 1.528e+05 ± 0.2144
153
152
151
150
149
148
pull
Entries 87
Mean −2326
Std Dev 0
100
0
−100
−200
−300

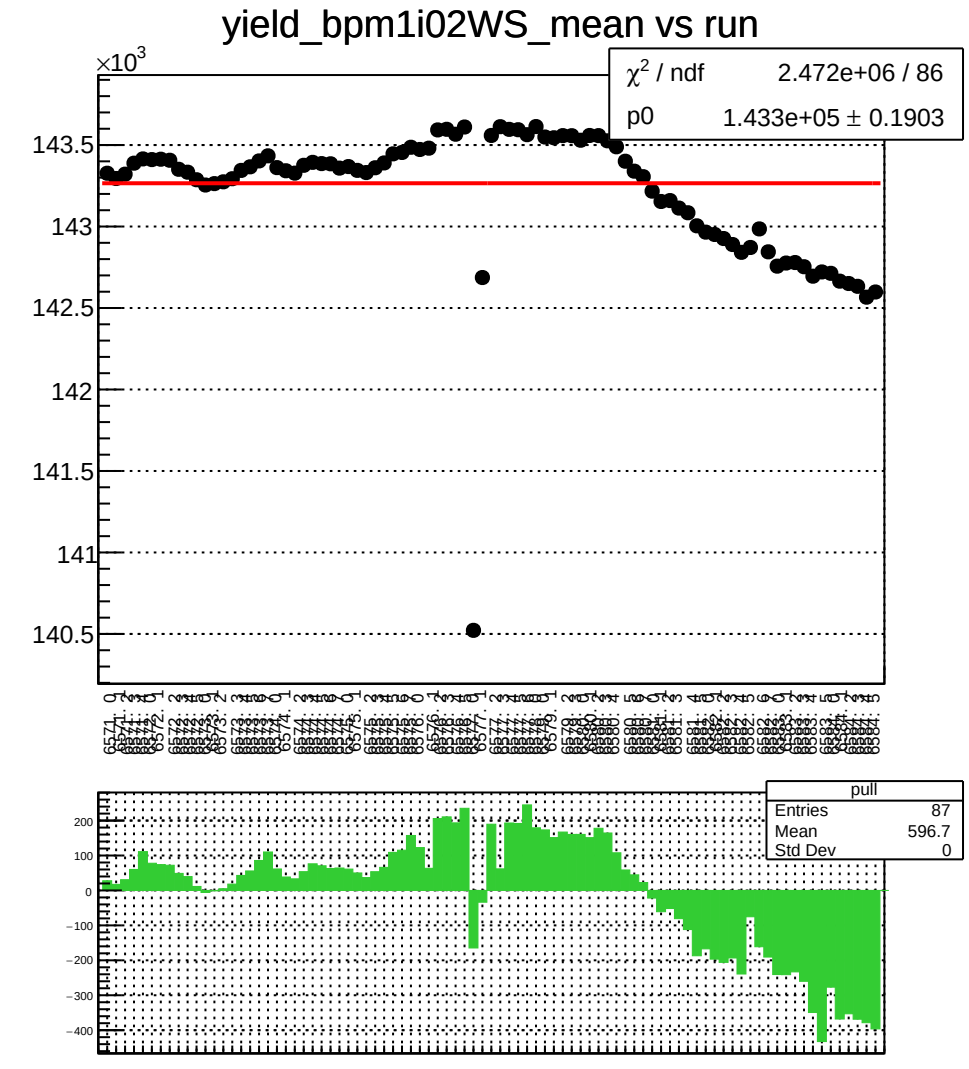

pull1D
Entries 87
Mean 1.713
Std Dev 3.689
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

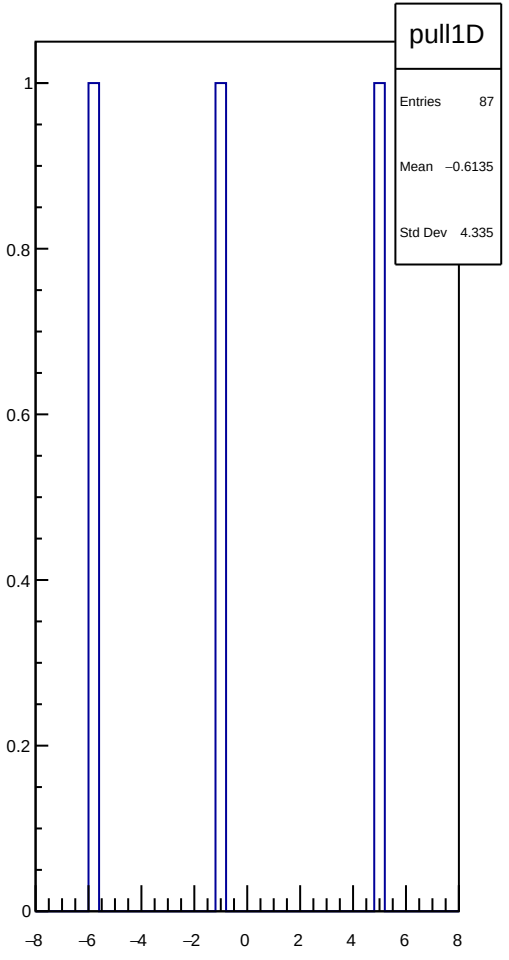

yield_bpm0i05WS_rms vs run
χ² / ndf 9.475e+04 / 86
p0 191.3 ± 0.1516
2500
2000
1500
1000
500

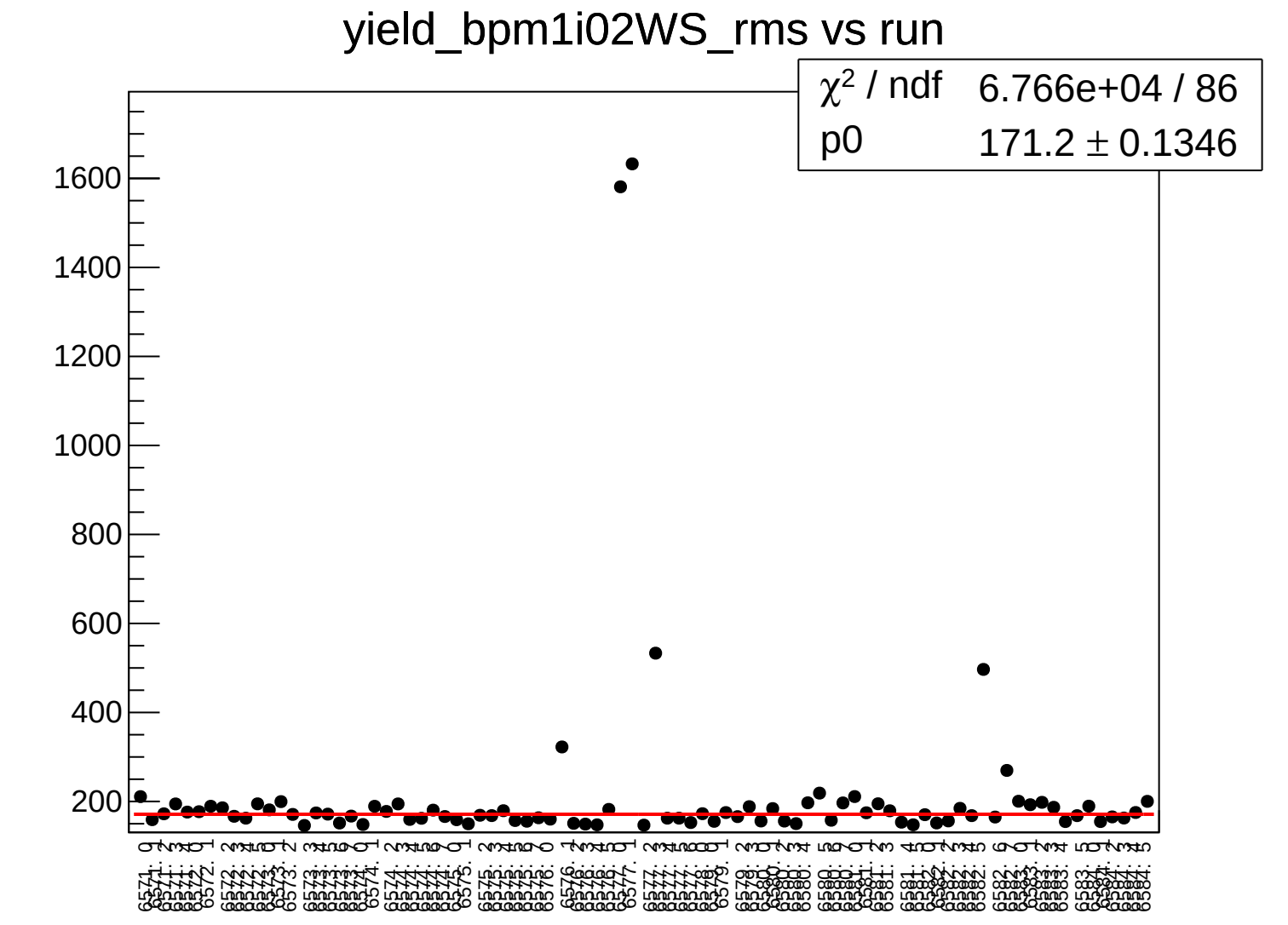

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.84e+05 / 86
p0 1.527e+05 ± 0.2181
153
152
151
150
149
pull
Entries 87
Mean 103.2
Std Dev 31.84
200
150
100
50
0
−50
−100
−150

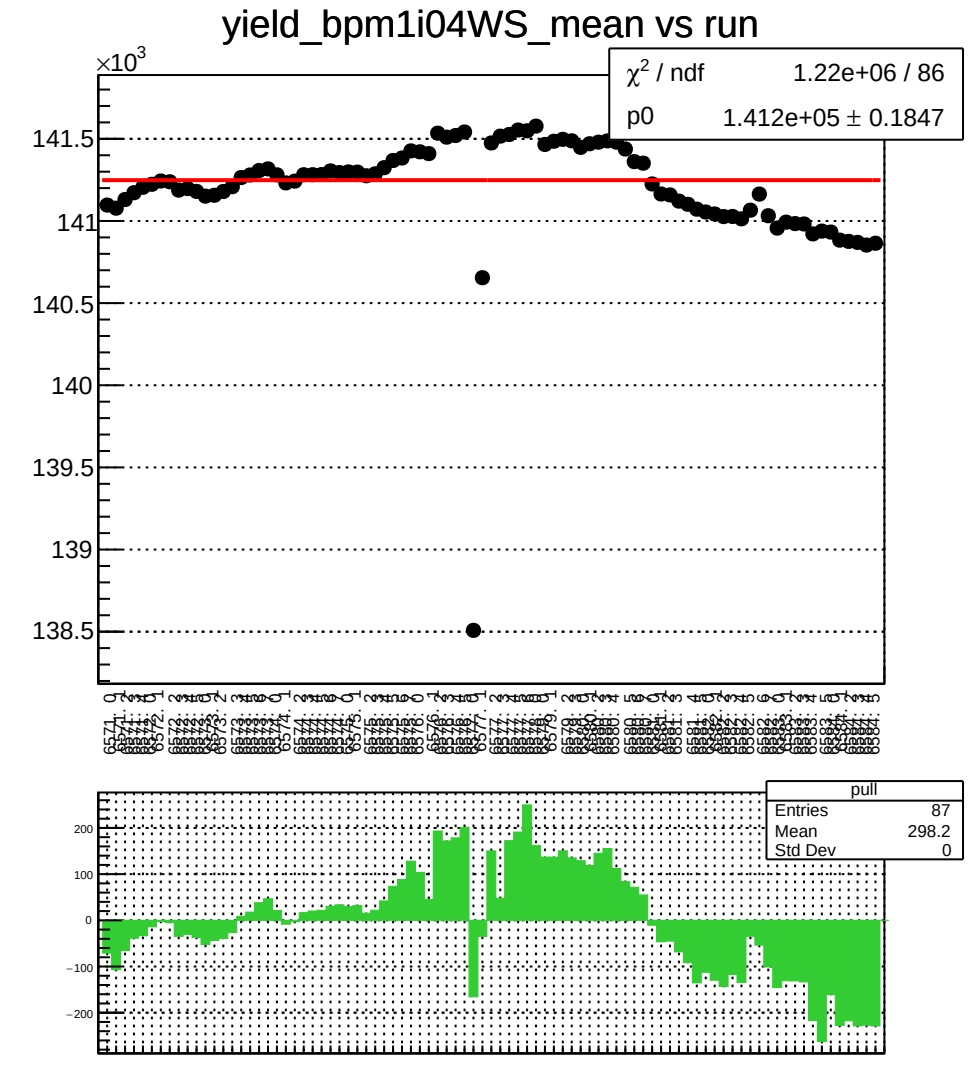

pull1D
Entries 87
Mean −0.8806
Std Dev 3.337
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

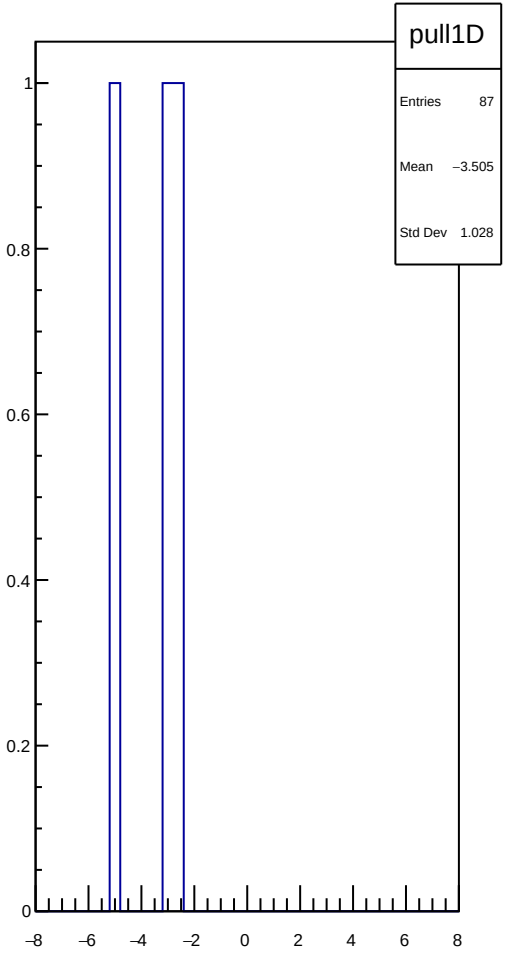

yield_bpm0i07WS_rms vs run
χ² / ndf 8.771e+04 / 86
p0 195 ± 0.1542
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

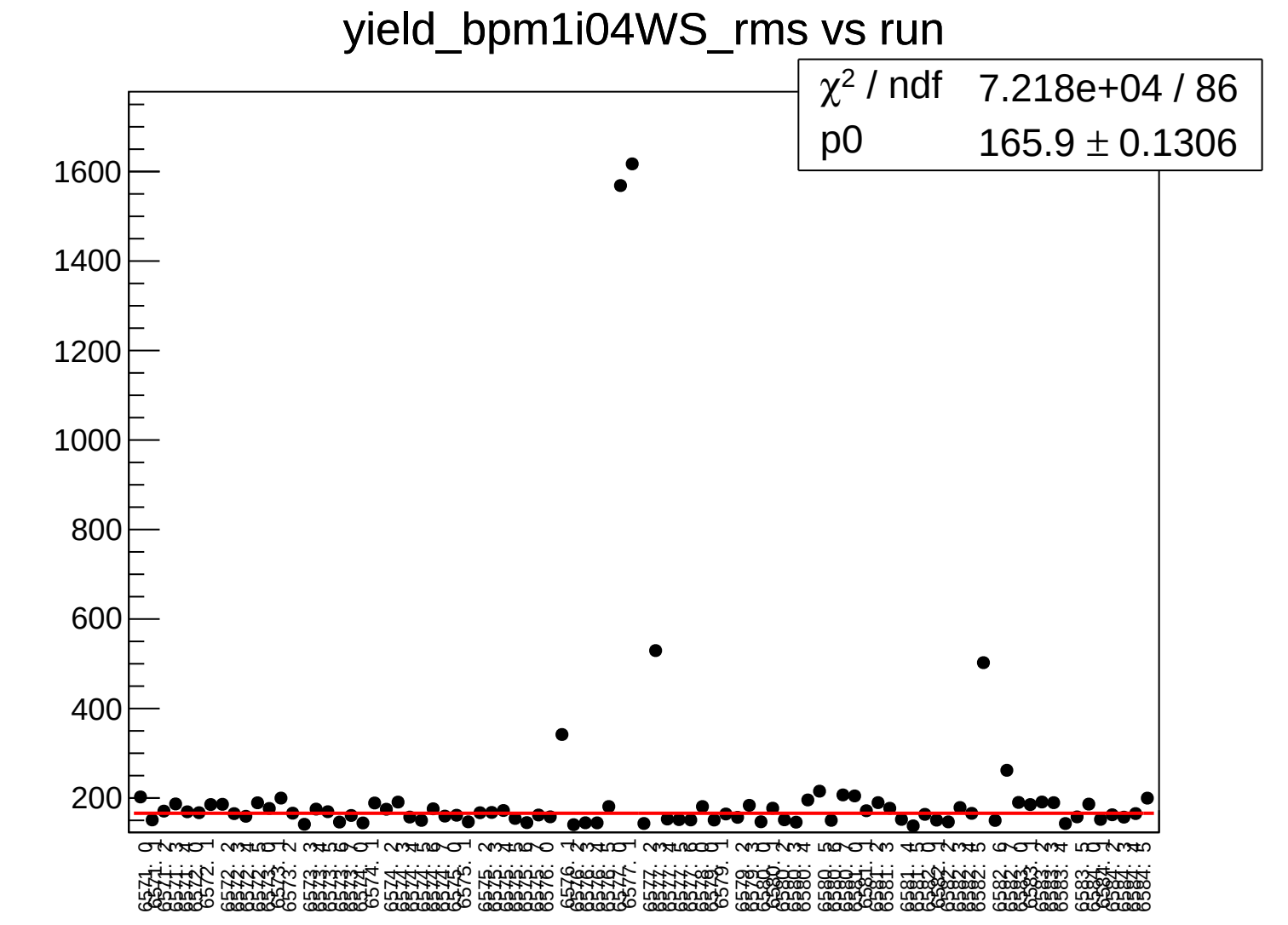

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.472e+06 / 86
p0 1.433e+05 ± 0.1903
143.5
143
142.5
142
141.5
141
140.5
pull
Entries 87
Mean 596.7
Std Dev 0
200
100
0
−100
−200
−300
−400

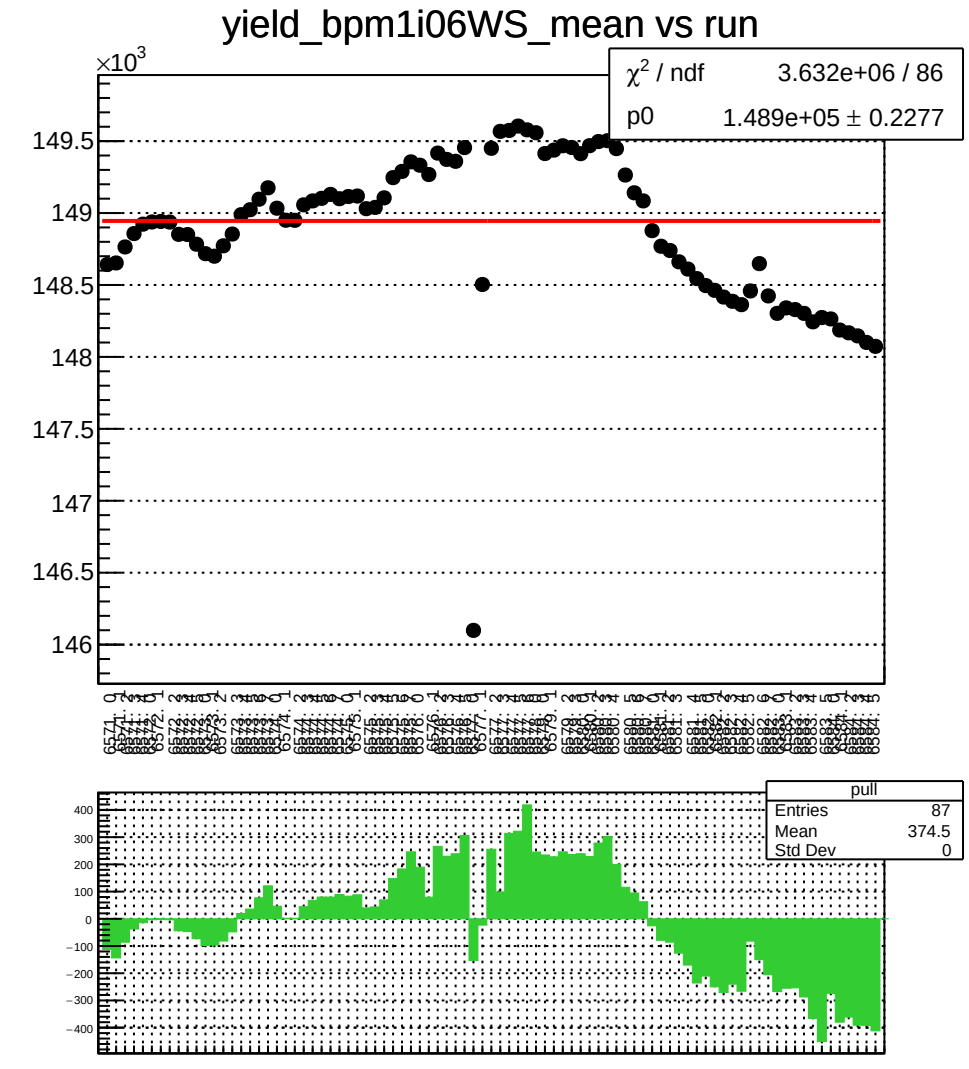

pull1D
Entries 87
Mean −0.6135
Std Dev 4.335
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

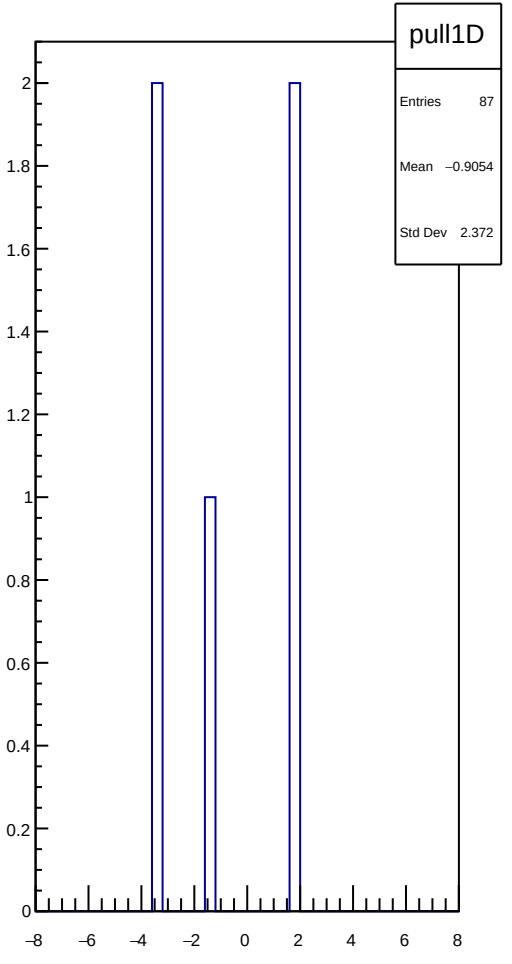

yield_bpm1i02WS_rms vs run
χ² / ndf 6.766e+04 / 86
p0 171.2 ± 0.1346
1600
1400
1200
1000
800
600
400
200

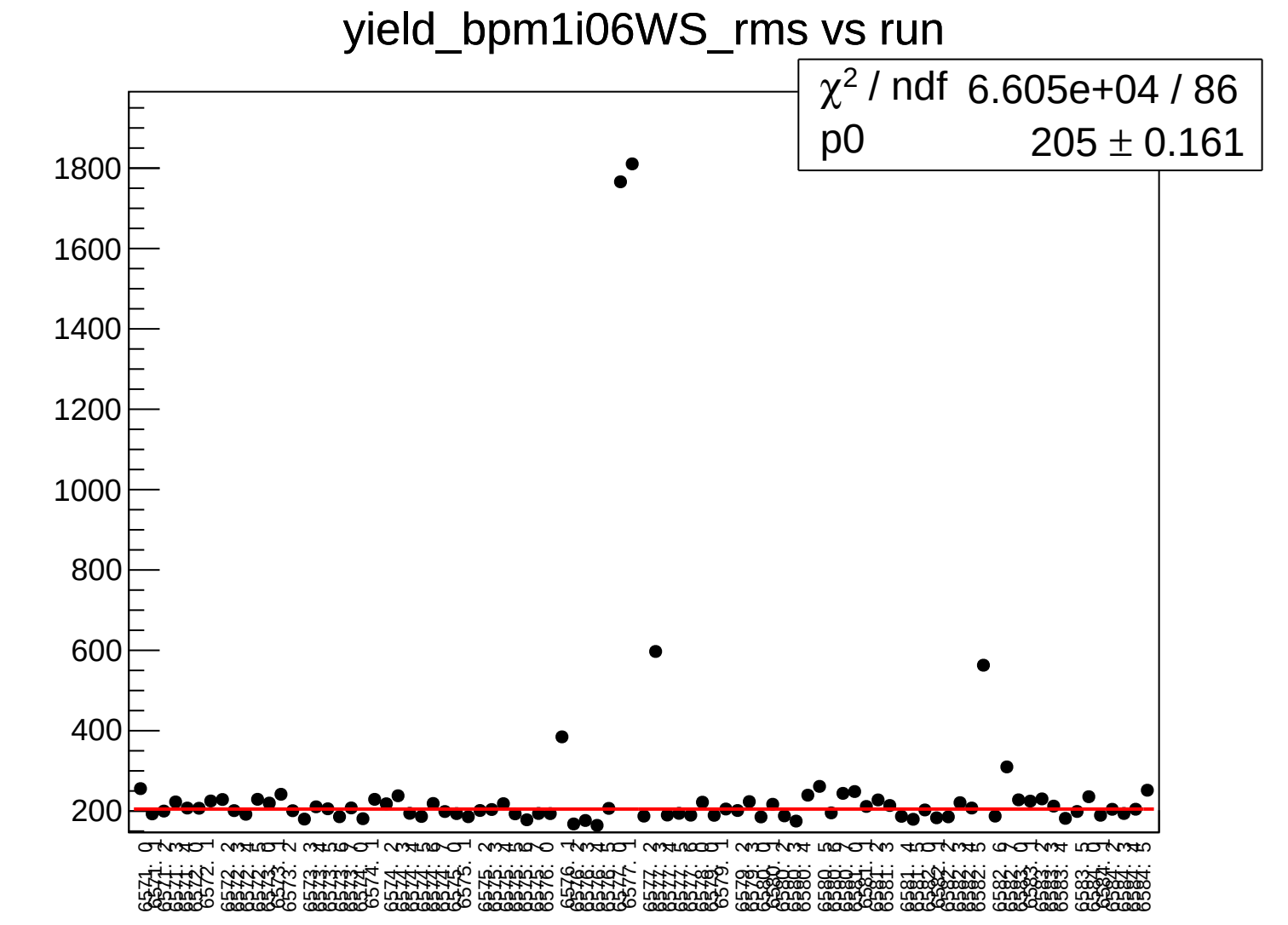

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.22e+06 / 86
p0 1.412e+05 ± 0.1847
141.5
141
140.5
140
139.5
139
138.5
pull
Entries 87
Mean 298.2
Std Dev 0
200
100
0
−100
−200

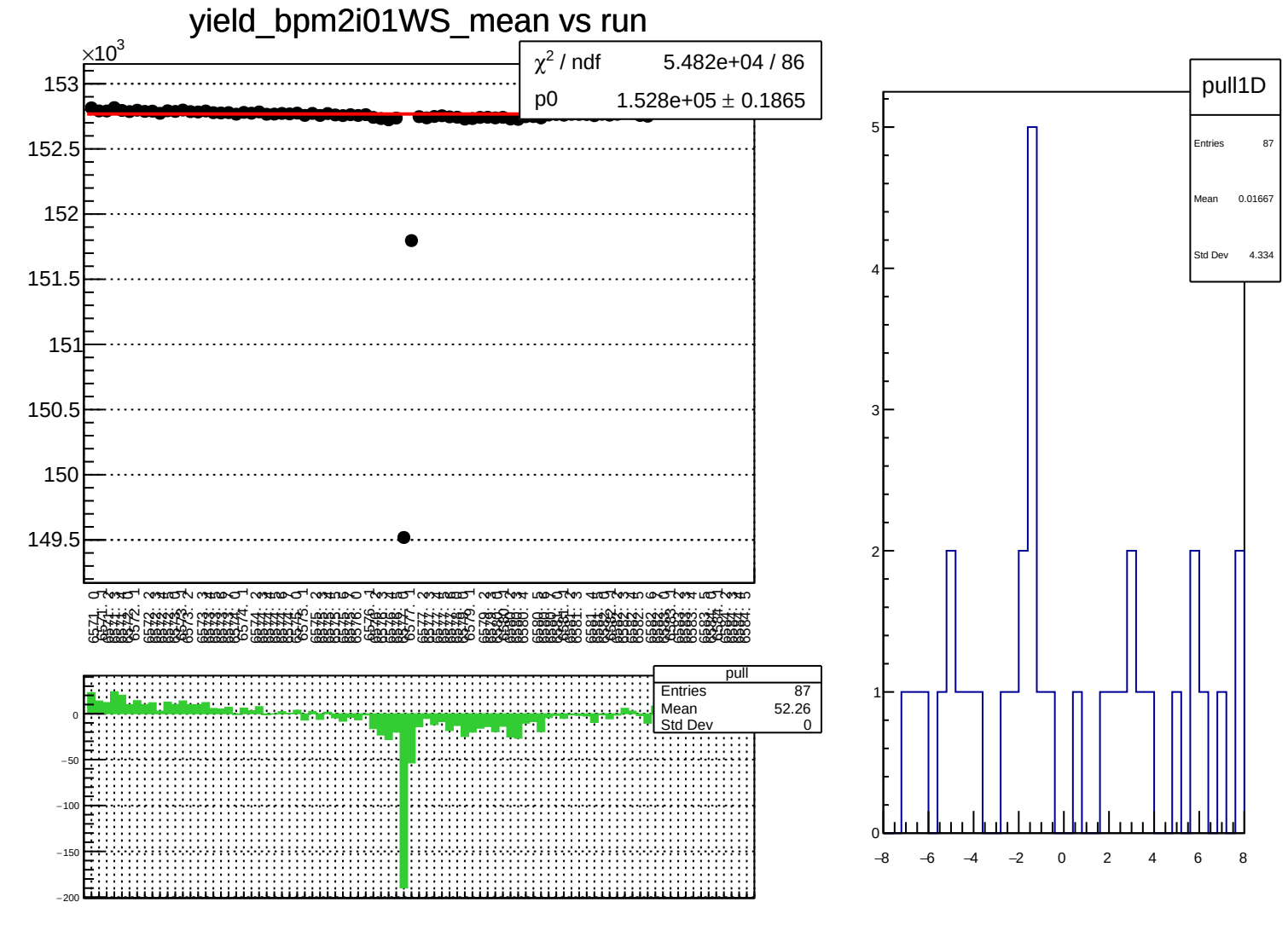

pull1D
Entries 87
Mean −3.505
Std Dev 1.028
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

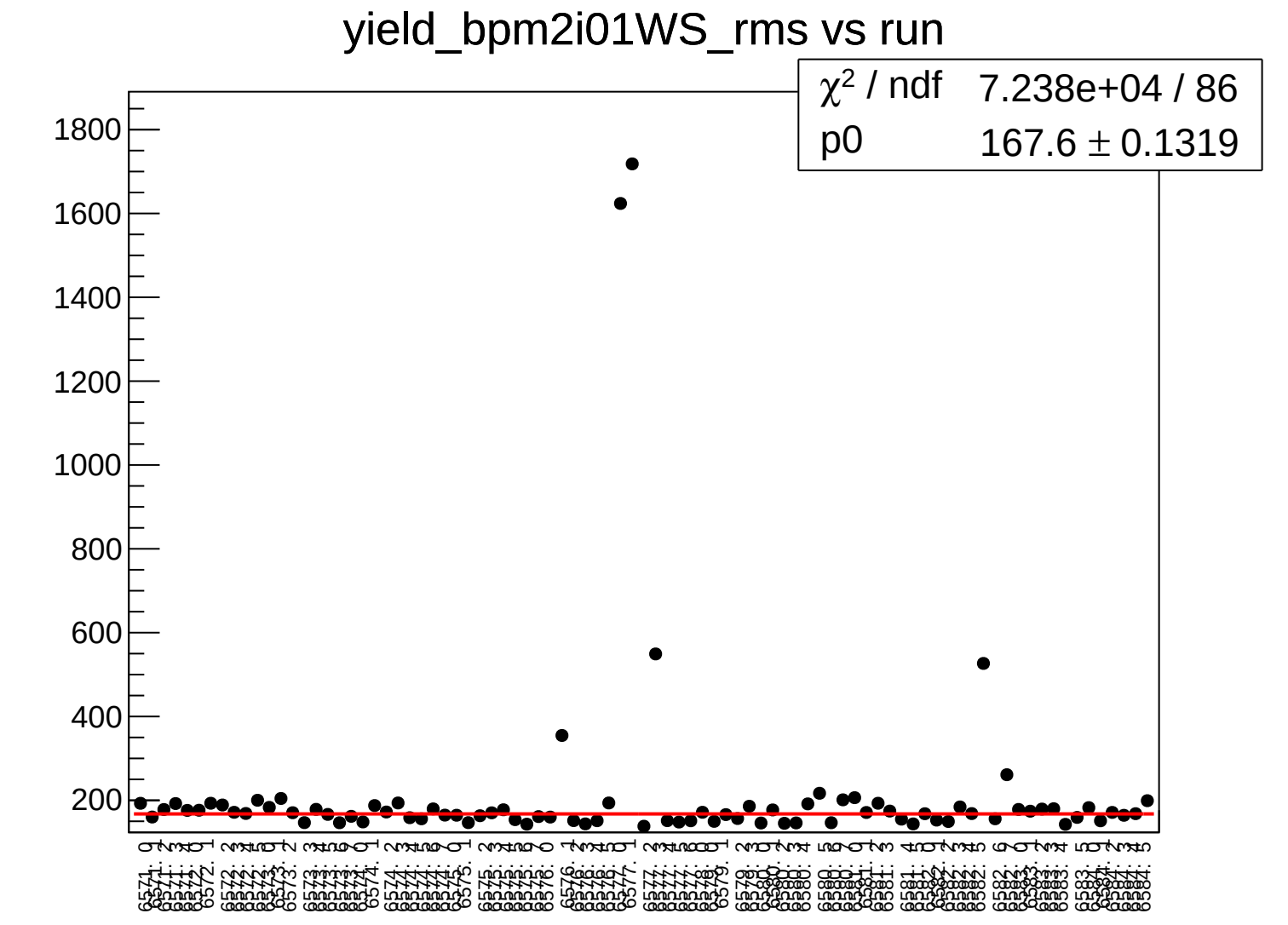

yield_bpm1i04WS_rms vs run
χ² / ndf 7.218e+04 / 86
p0 165.9 ± 0.1306
1600
1400
1200
1000
800
600
400
200

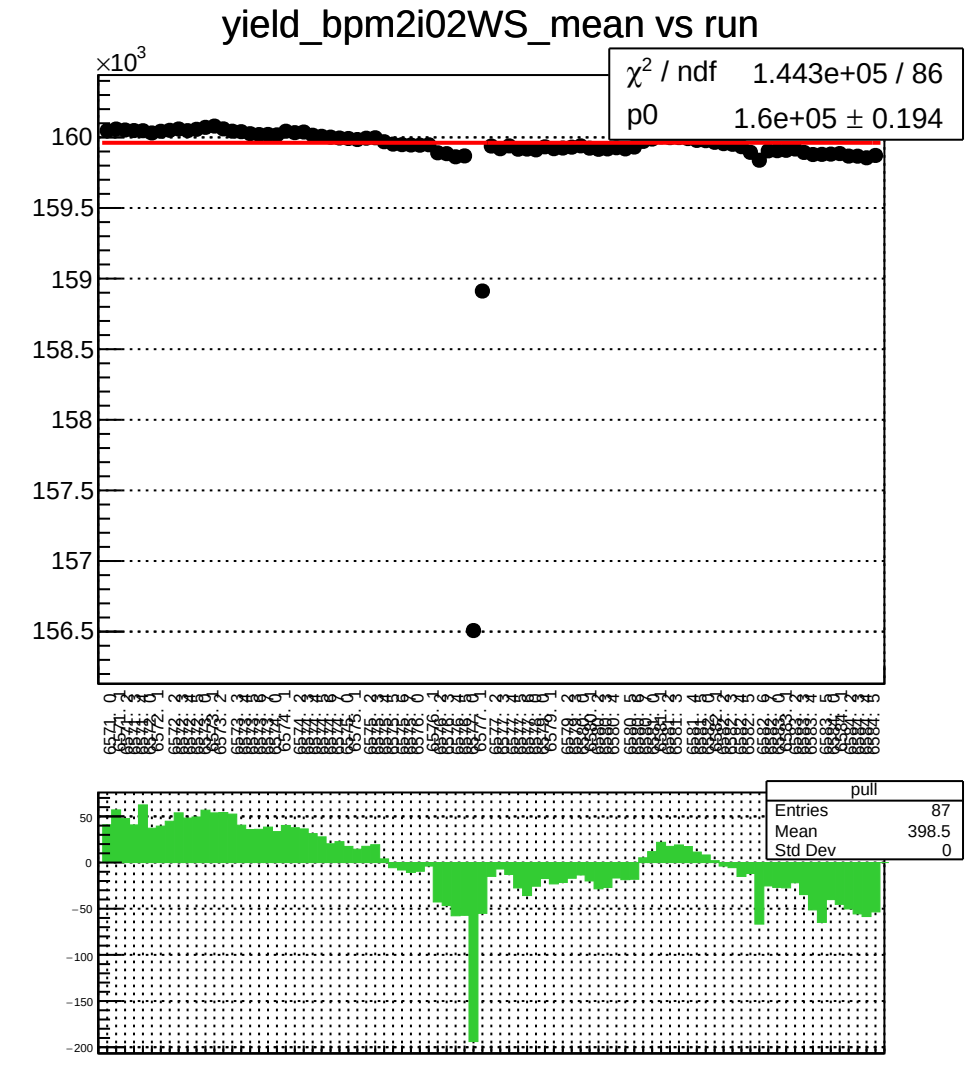

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 3.632e+06 / 86
p0 1.489e+05 ± 0.2277
149.5
149
148.5
148
147.5
147
146.5
146
pull
Entries 87
Mean 374.5
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

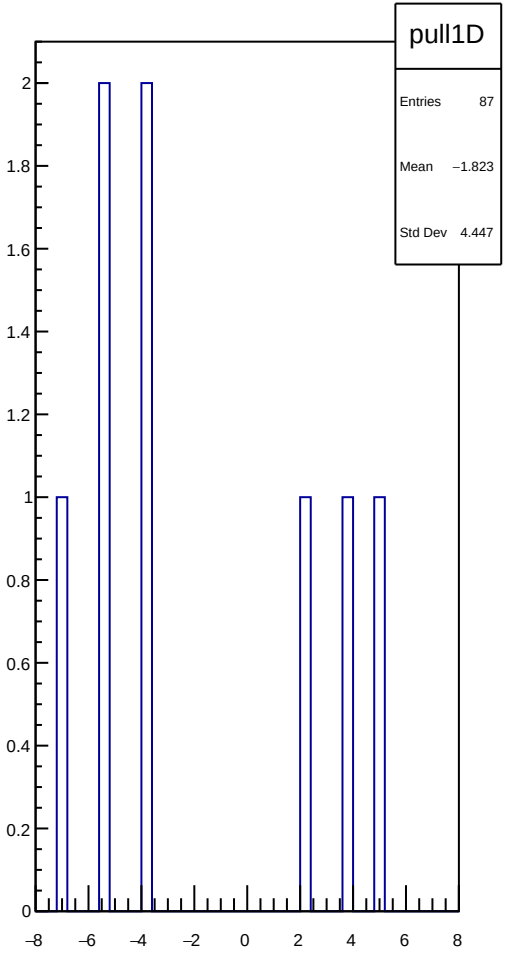

pull1D
Entries 87
Mean −0.9054
Std Dev 2.372
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

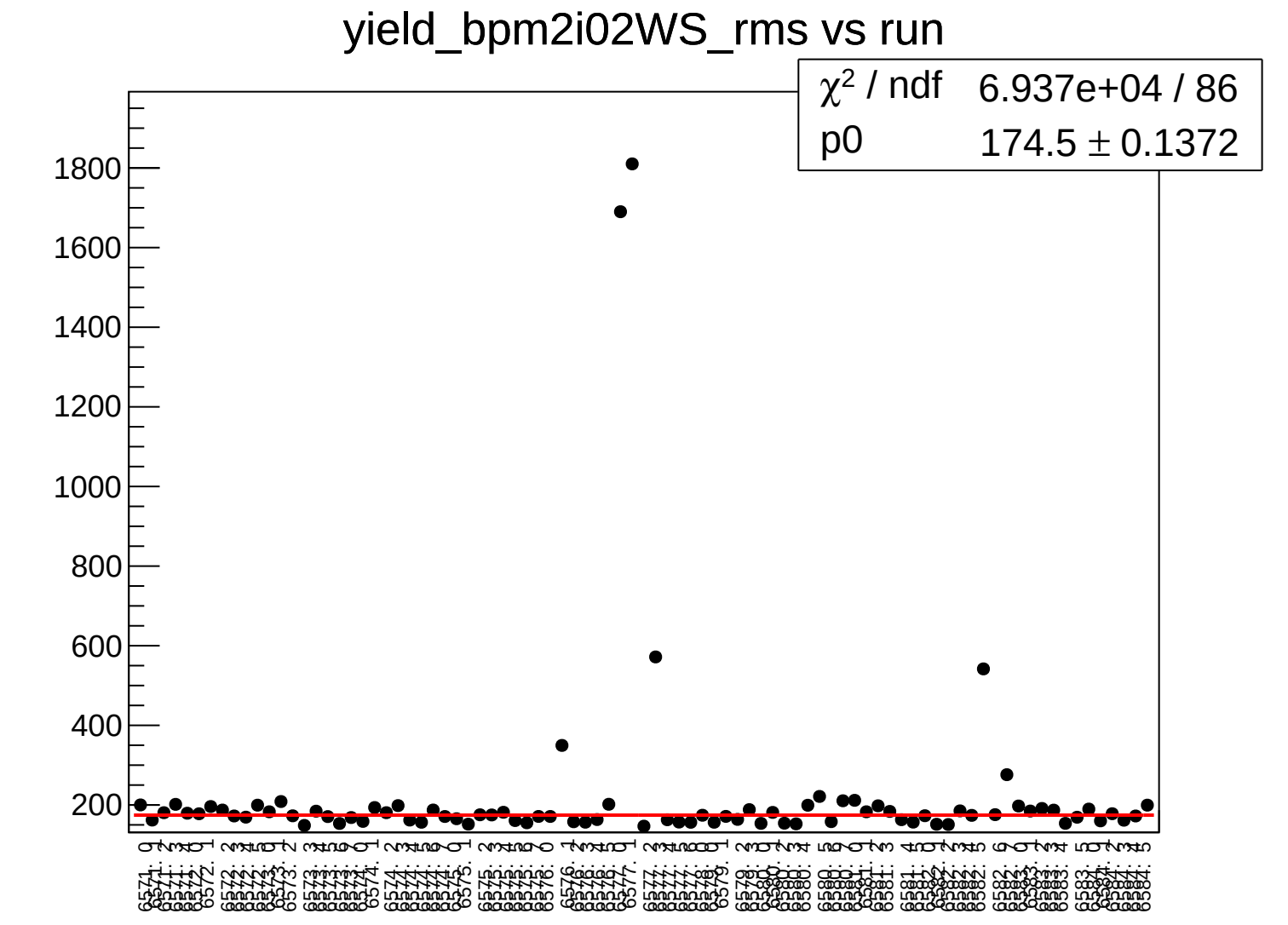

yield_bpm1i06WS_rms vs run
χ^2 / ndf 6.605e+04 / 86
p0 205 ± 0.161
1800
1600
1400
1200
1000
800
600
400
200

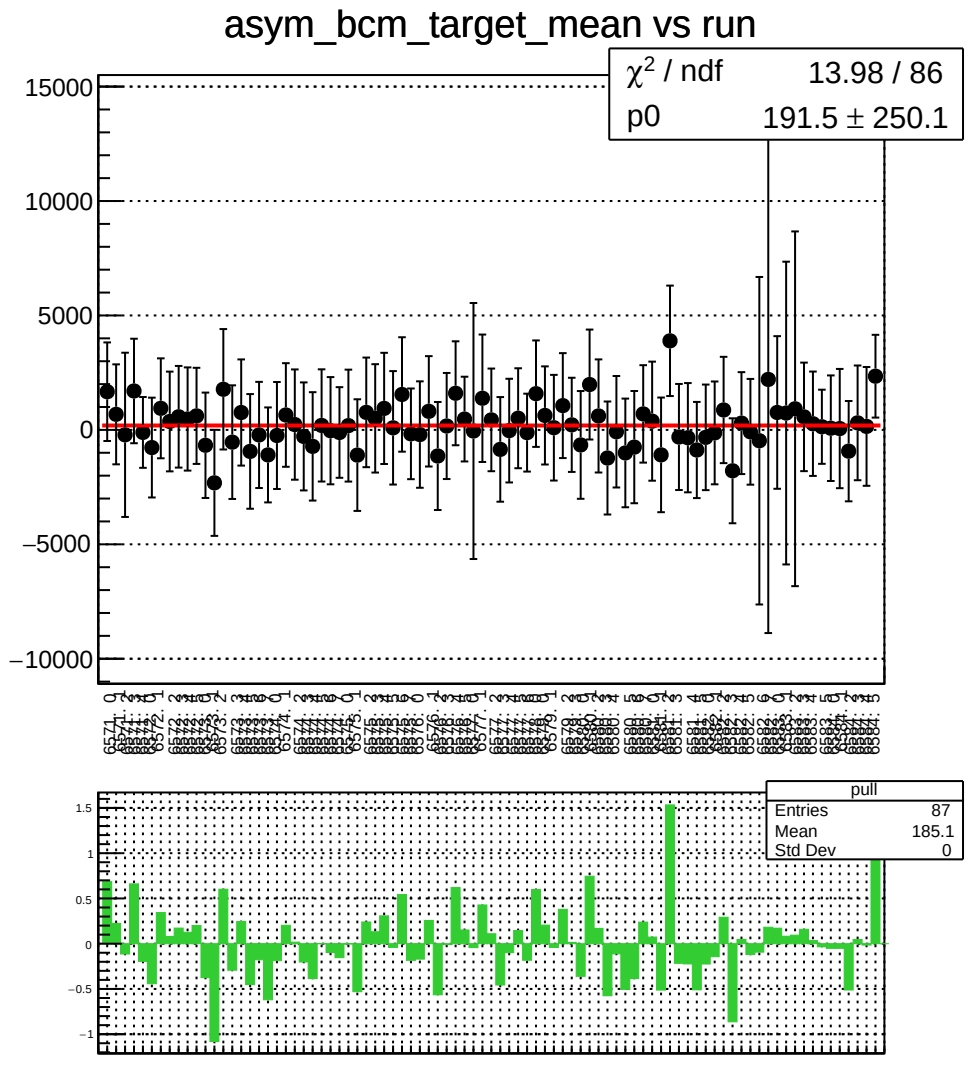

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.482e+04 / 86
p0 1.528e+05 ± 0.1865
153
152.5
152
151.5
151
150.5
150
149.5
pull
Entries 87
Mean 52.26
Std Dev 0
0
−50
−100
−150
−200
pull1D
Entries 87
Mean 0.01667
Std Dev 4.334
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

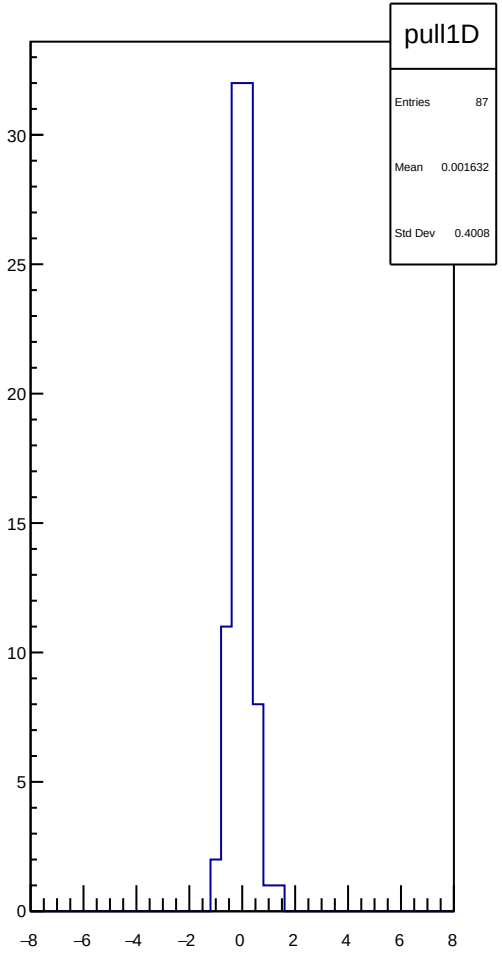

yield_bpm2i01WS_rms vs run
χ² / ndf 7.238e+04 / 86
p0 167.6 ± 0.1319
1800
1600
1400
1200
1000
800
600
400
200

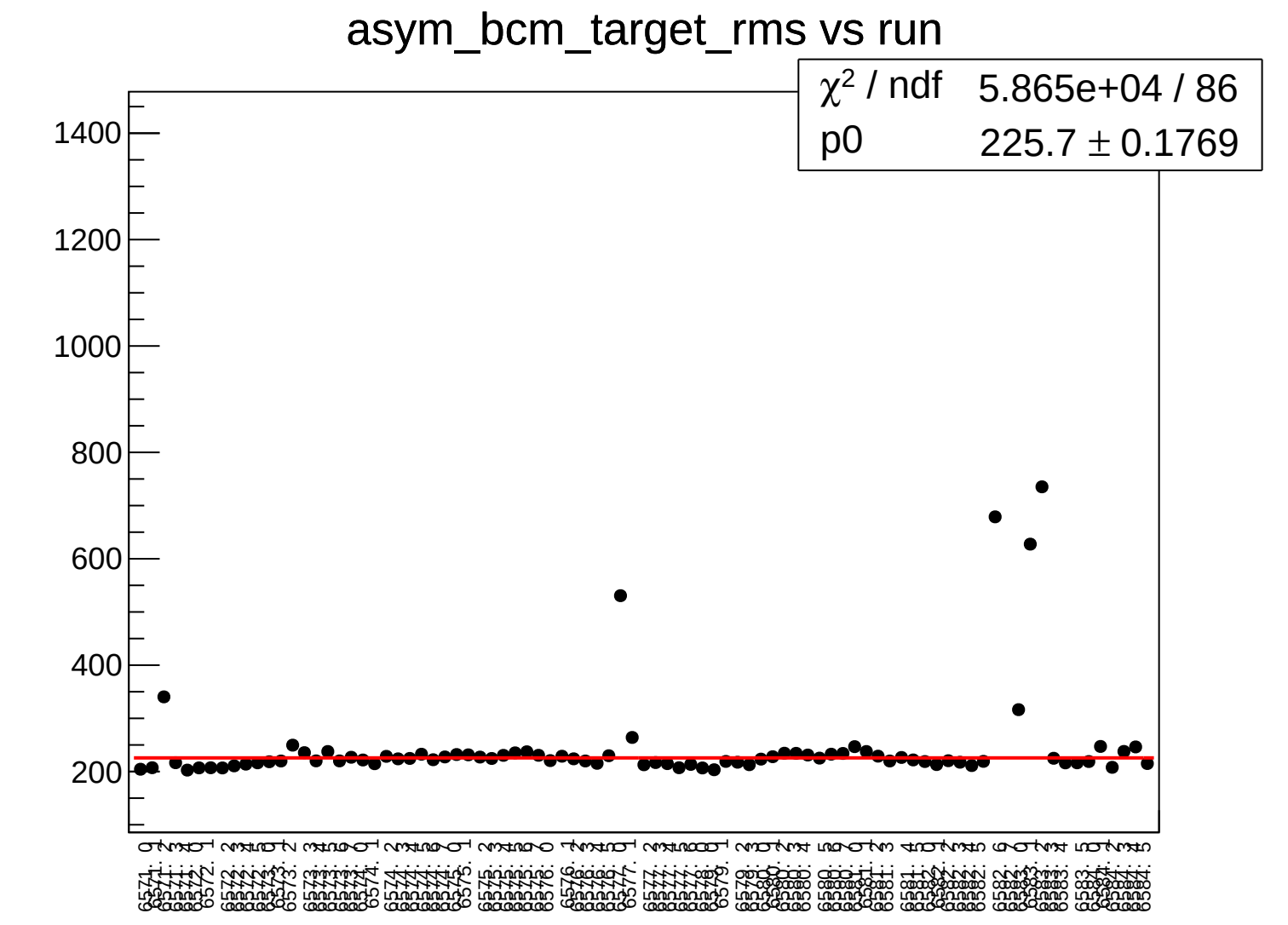

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 1.443e+05 / 86
p0 1.6e+05 ± 0.194
160
159.5
159
158.5
158
157.5
157
156.5
pull
Entries 87
Mean 398.5
Std Dev 0
50
0
−50
−100
−150
−200

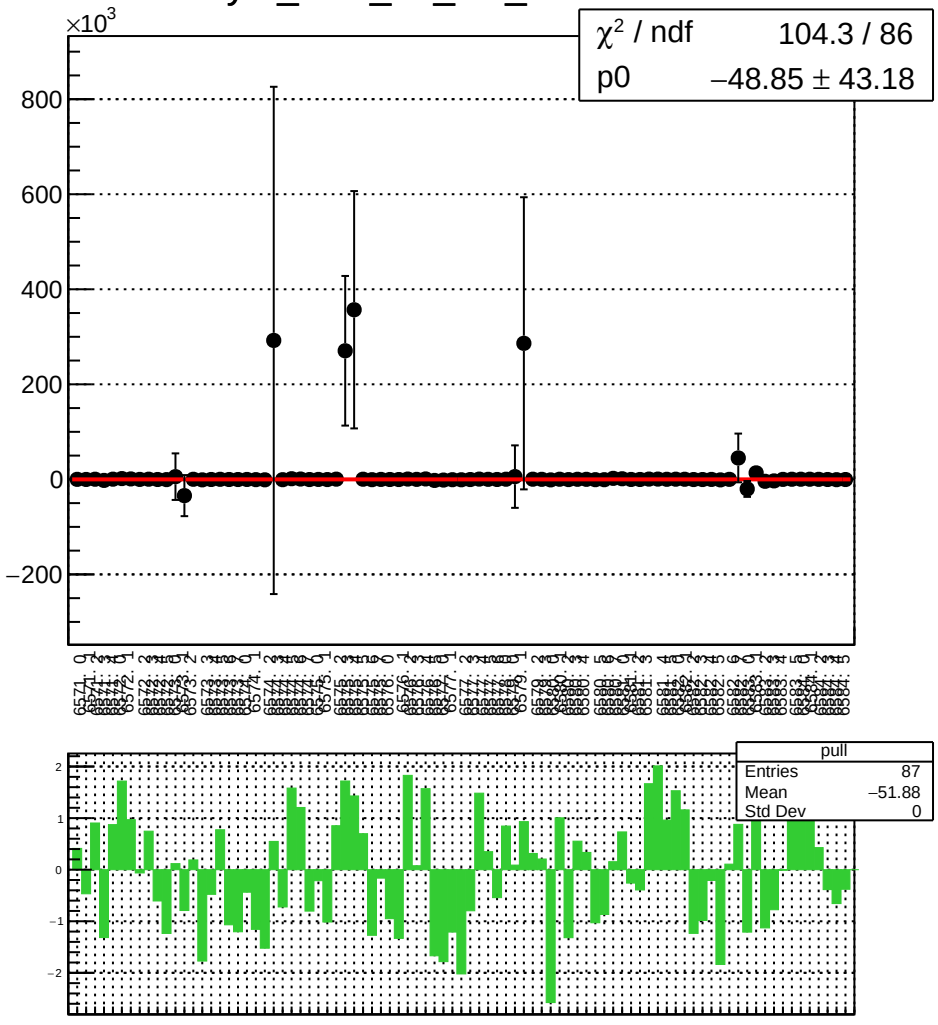

pull1D
Entries 87
Mean −1.823
Std Dev 4.447
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

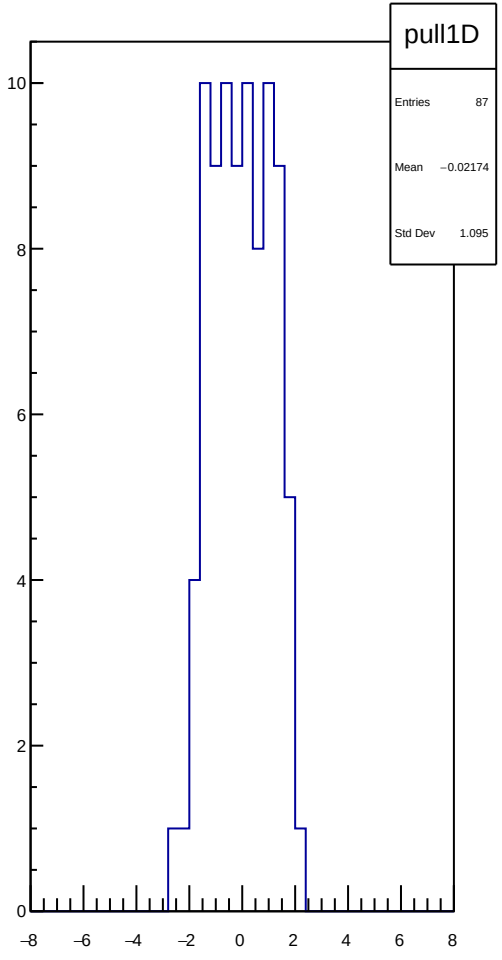

yield_bpm2i02WS_rms vs run
χ² / ndf 6.937e+04 / 86
p0 174.5 ± 0.1372
1800
1600
1400
1200
1000
800
600
400
200

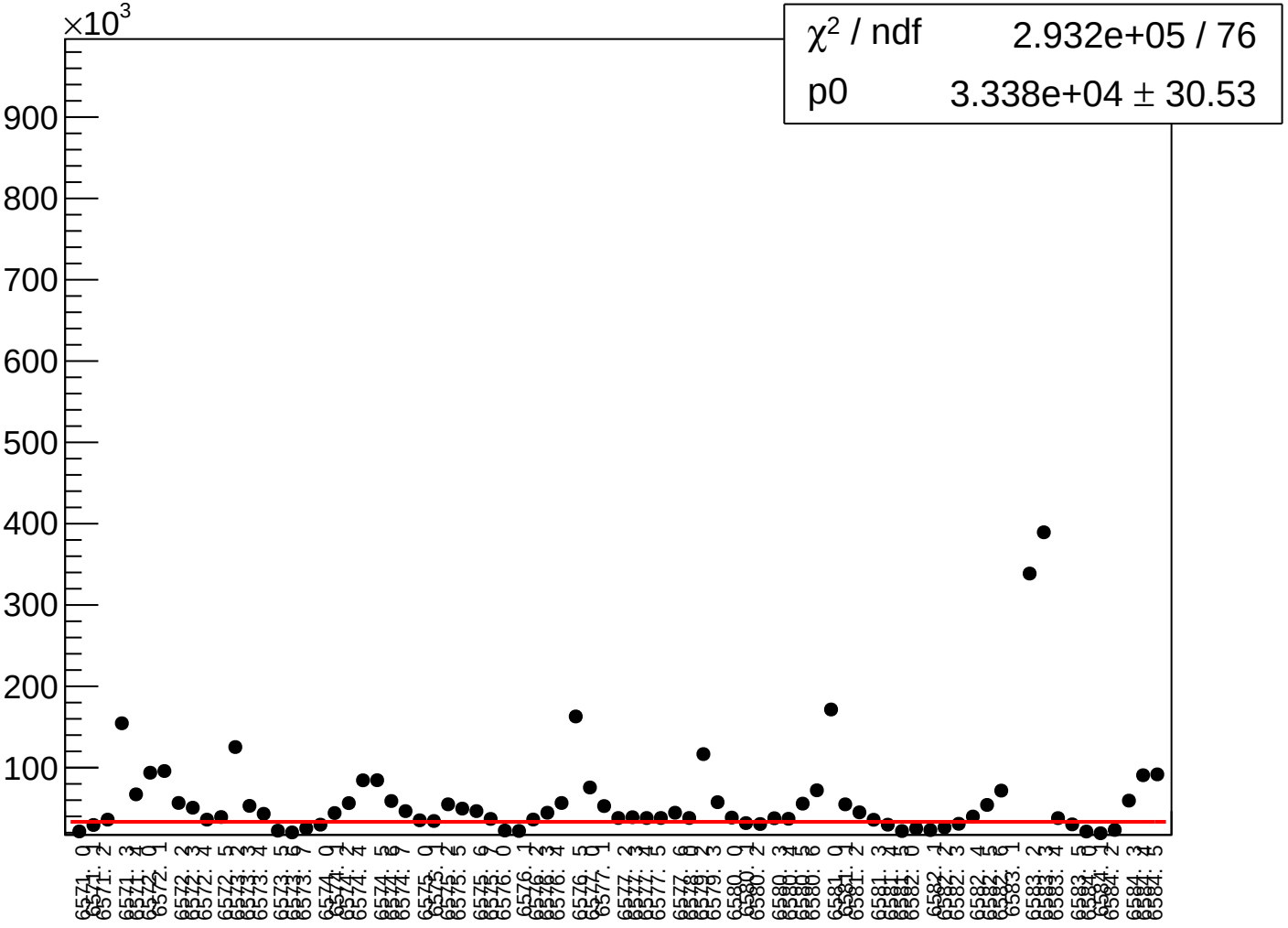

asym_bcm_target_mean vs run
χ² / ndf 13.98 / 86
p0 191.5 ± 250.1
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 185.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

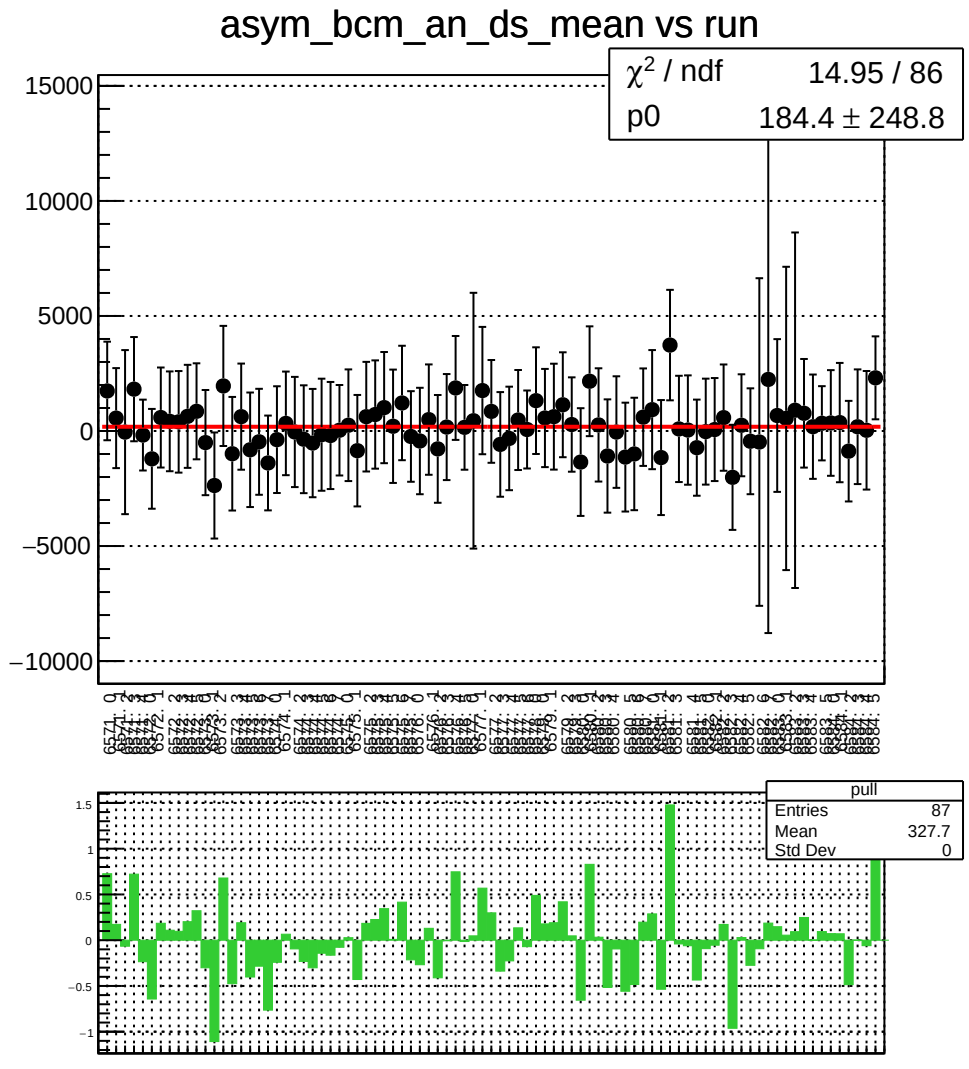

pull1D
Entries 87
Mean 0.001632
Std Dev 0.4008
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

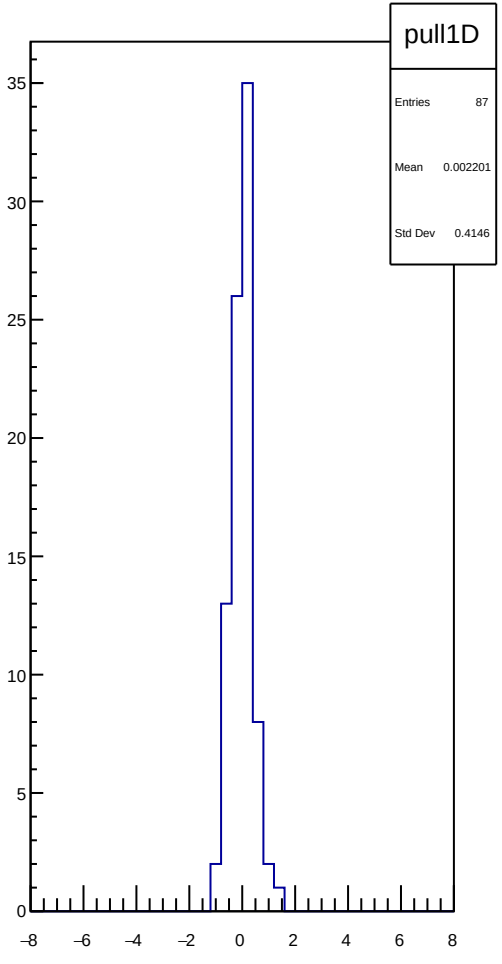

asym_bcm_target_rms vs run
χ² / ndf 5.865e+04 / 86
p0 225.7 ± 0.1769
1400
1200
1000
800
600
400
200

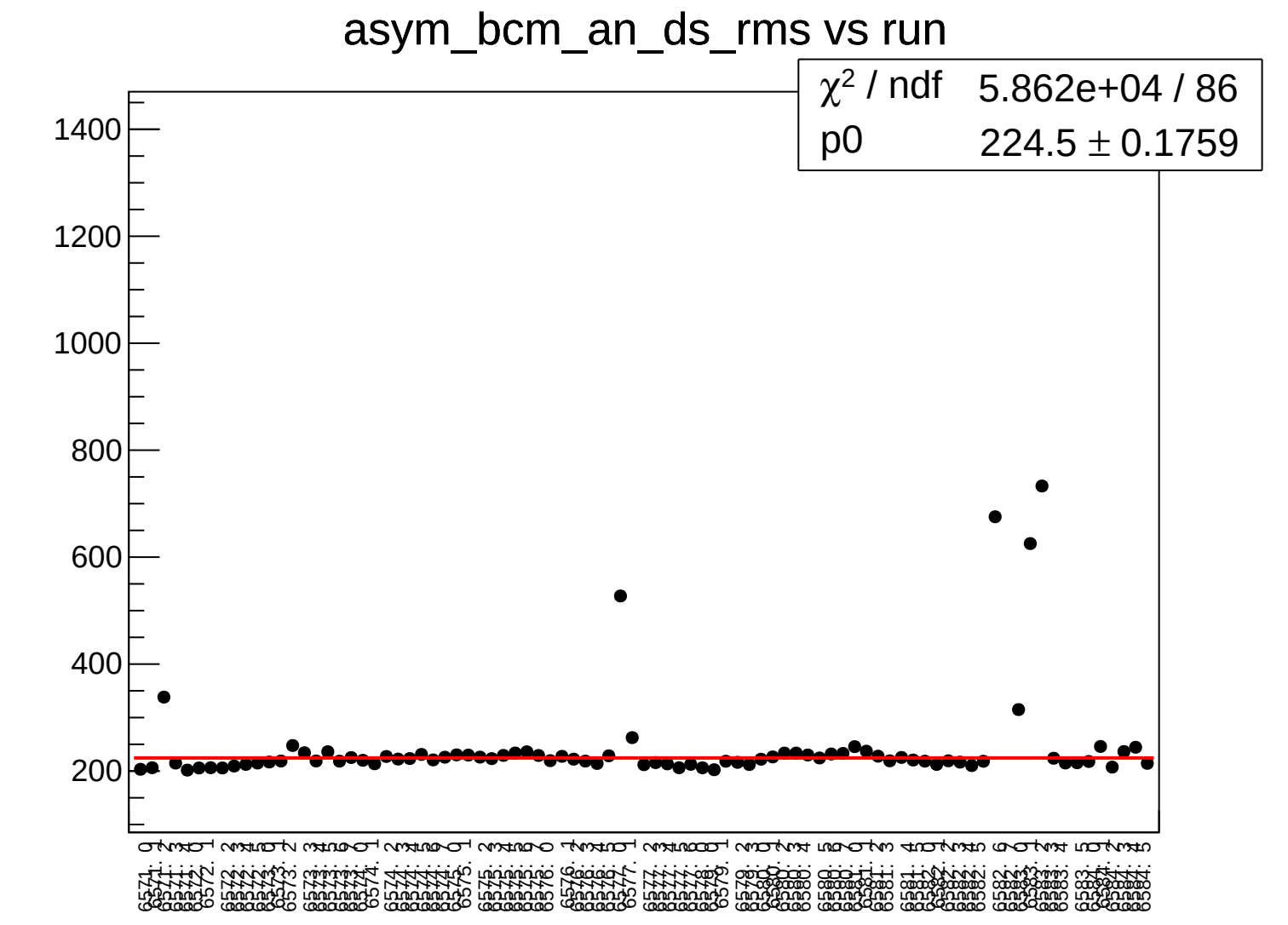

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 104.3 / 86
p0 −48.85 ± 43.18
800
600
400
200
0
−200
pull
Entries 87
Mean −51.88
Std Dev 0
2
1
0
−1
−2

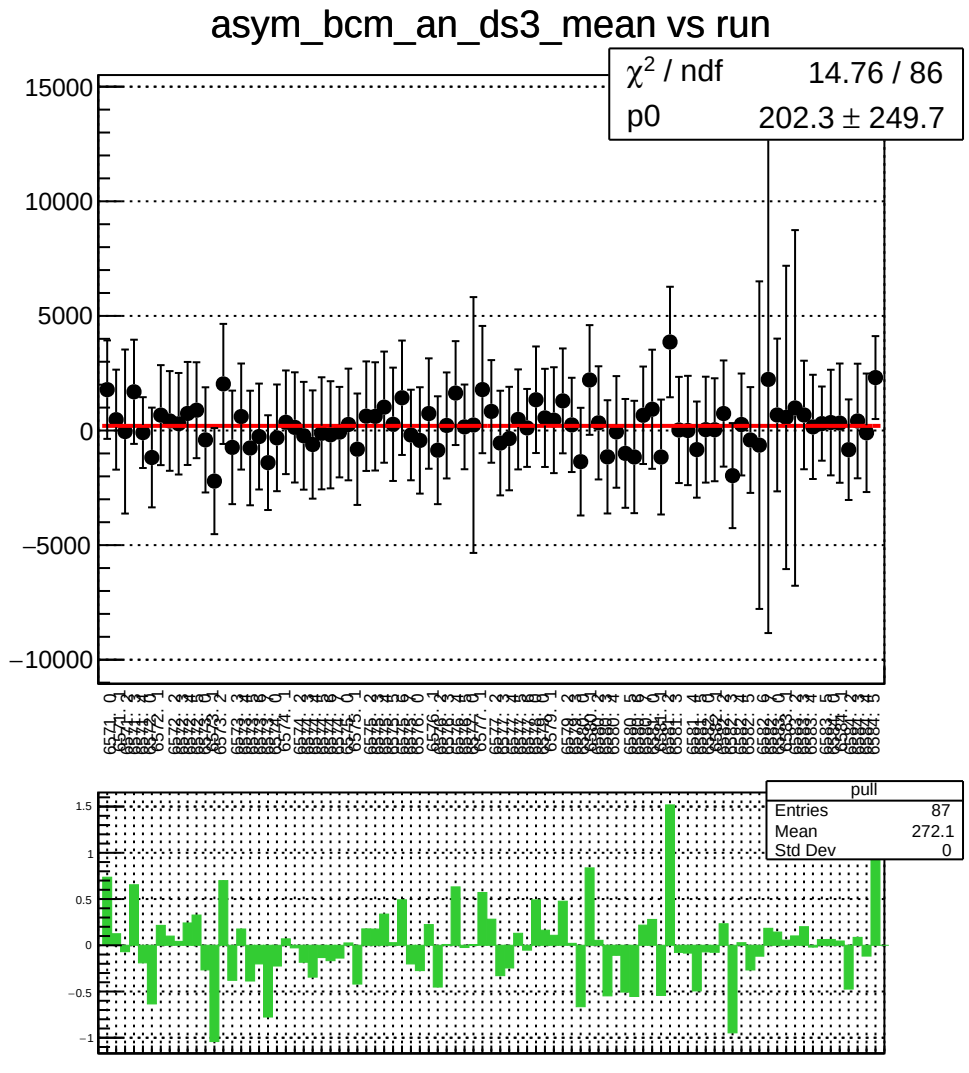

pull1D
Entries 87
Mean −0.02174
Std Dev 1.095
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

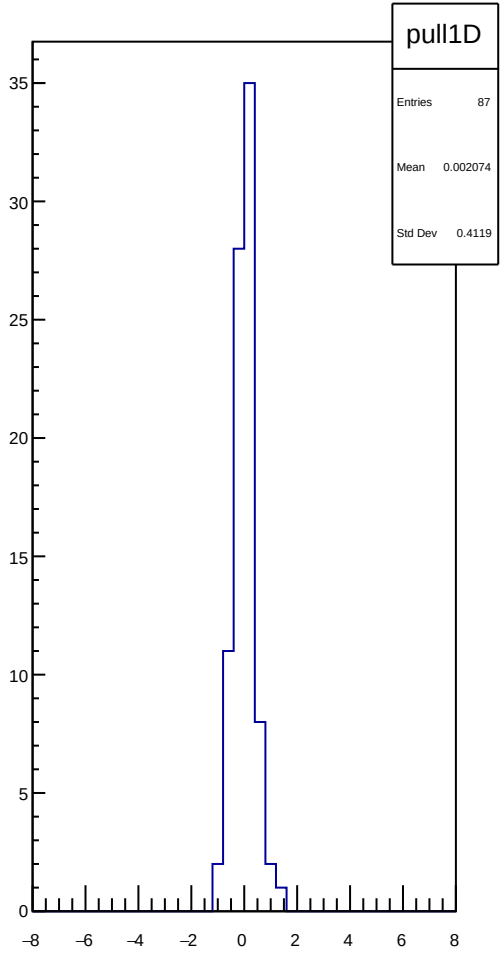

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 2.932e+05 / 76
p0 3.338e+04 ± 30.53
900
800
700
600
500
400
300
200
100

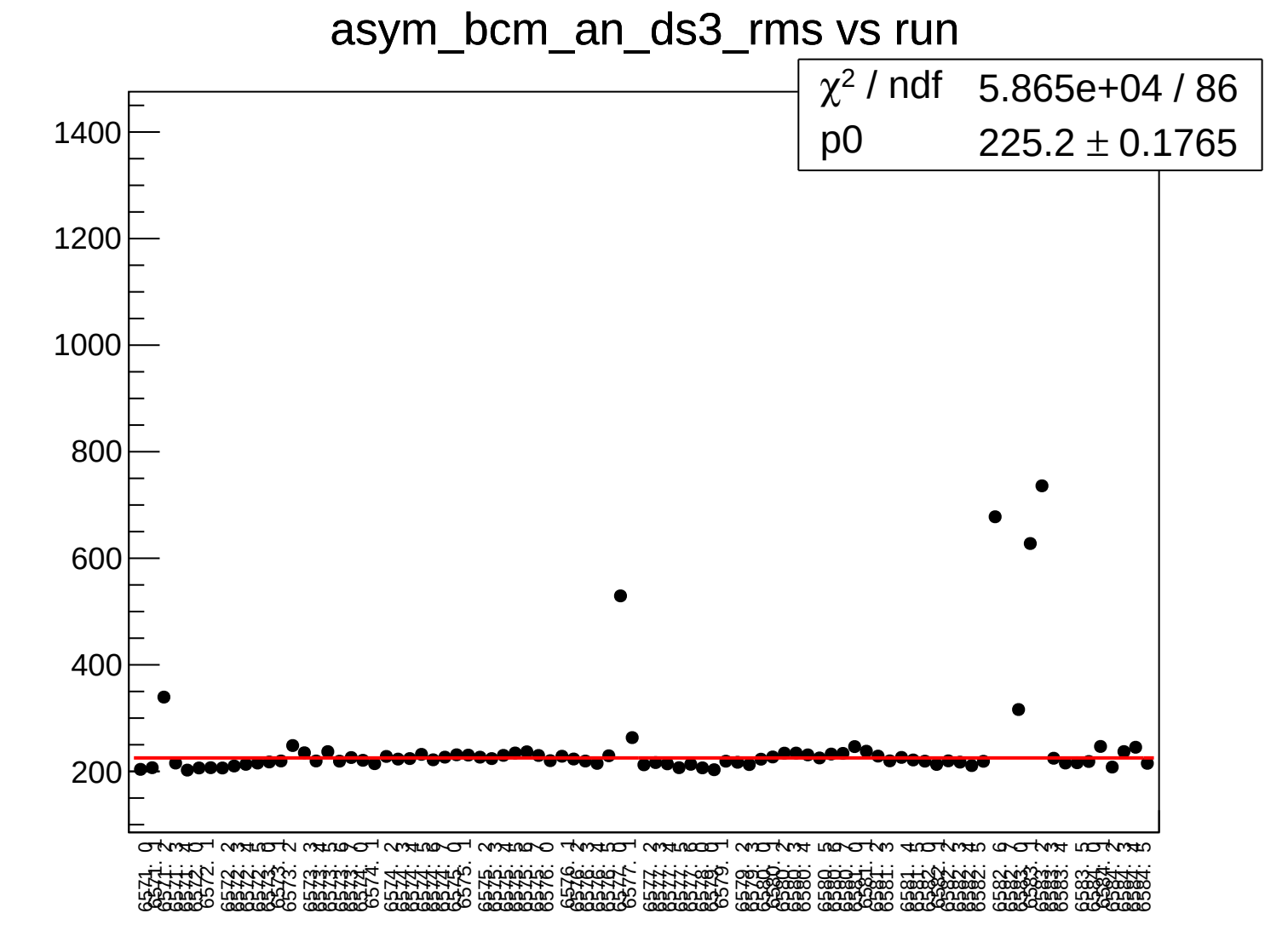

asym_bcm_an_ds_mean vs run
χ² / ndf 14.95 / 86
p0 184.4 ± 248.8
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 327.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

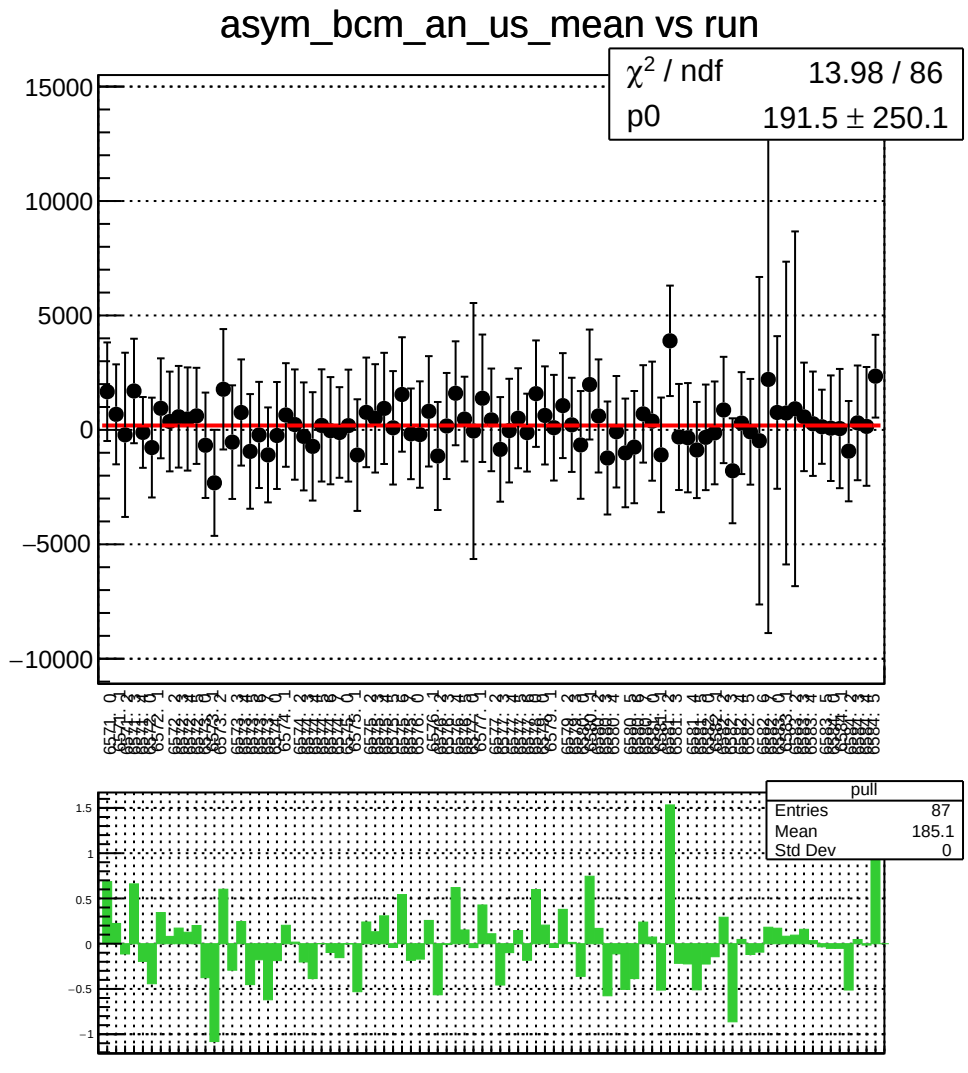

pull1D
Entries 87
Mean 0.002201
Std Dev 0.4146
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

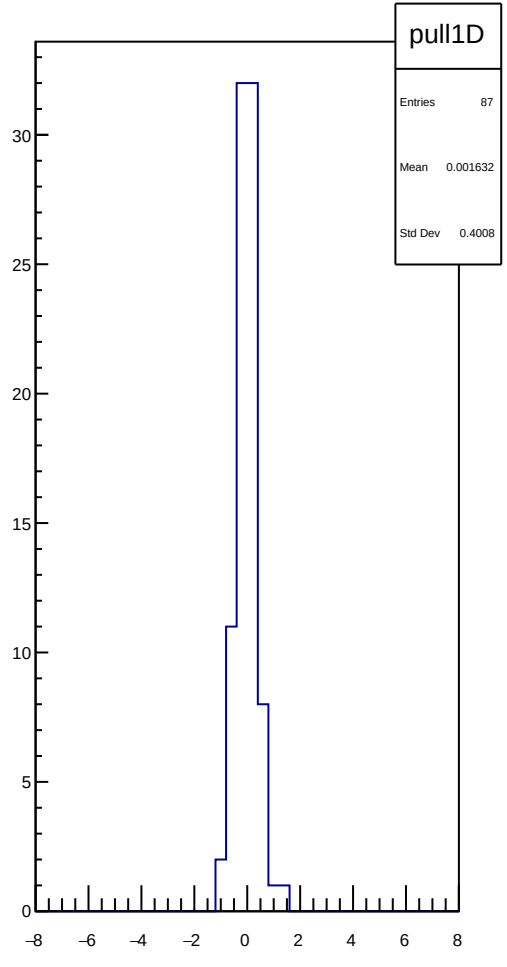

asym_bcm_an_ds_rms vs run
χ² / ndf 5.862e+04 / 86
p0 224.5 ± 0.1759
1400
1200
1000
800
600
400
200

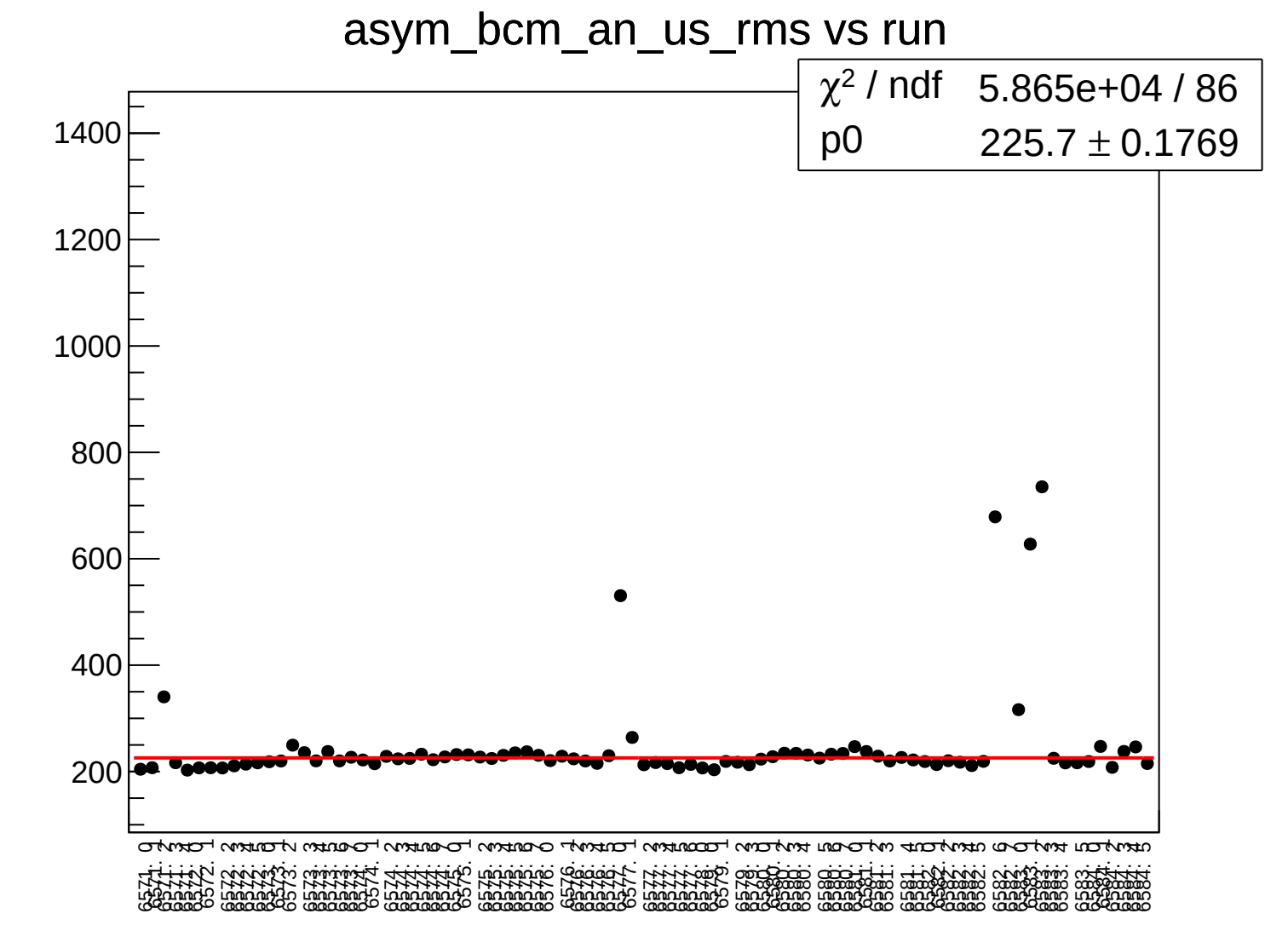

asym_bcm_an_ds3_mean vs run
χ² / ndf 14.76 / 86
p0 202.3 ± 249.7
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 272.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

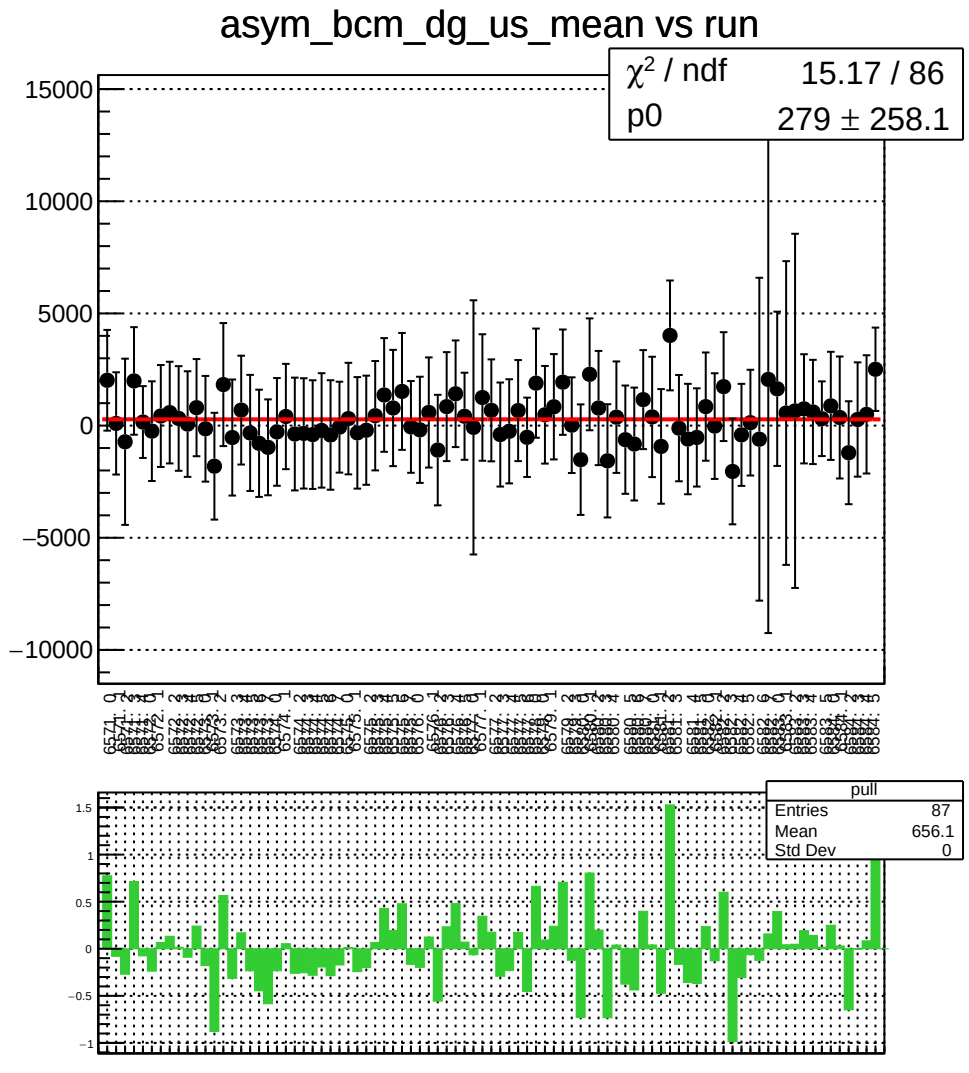

pull1D
Entries 87
Mean 0.002074
Std Dev 0.4119
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

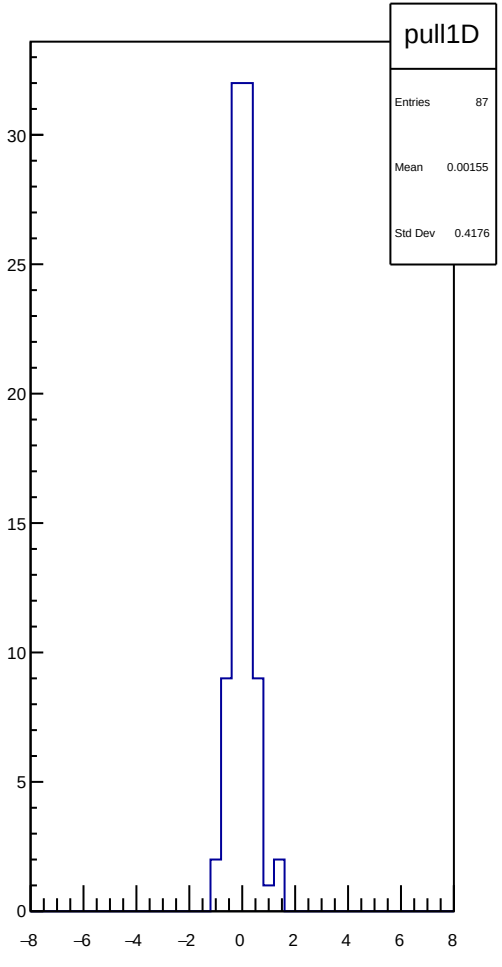

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 5.865e+04 / 86
p0 225.2 ± 0.1765
1400
1200
1000
800
600
400
200

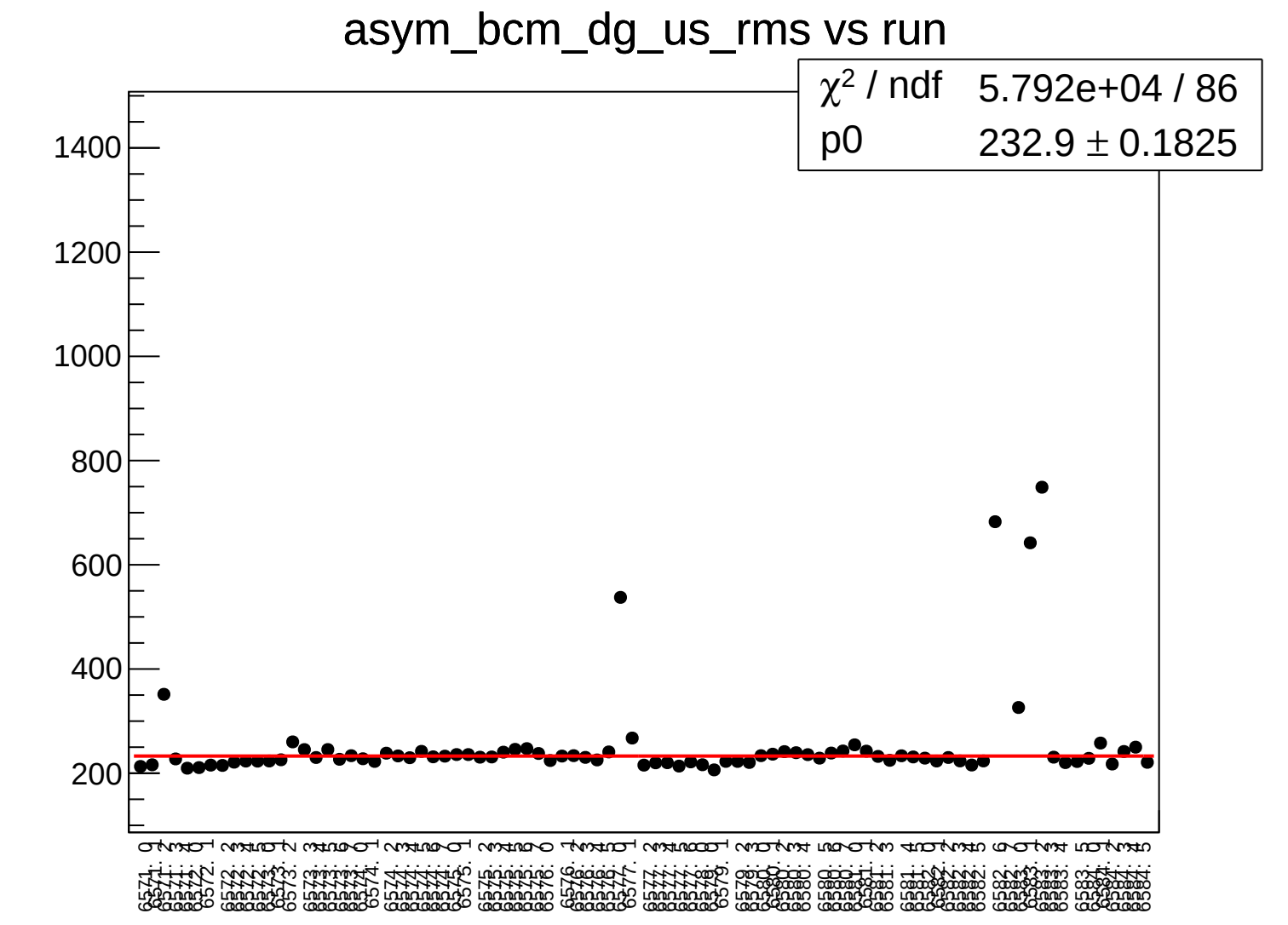

asym_bcm_an_us_mean vs run
χ² / ndf 13.98 / 86
p0 191.5 ± 250.1
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 185.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

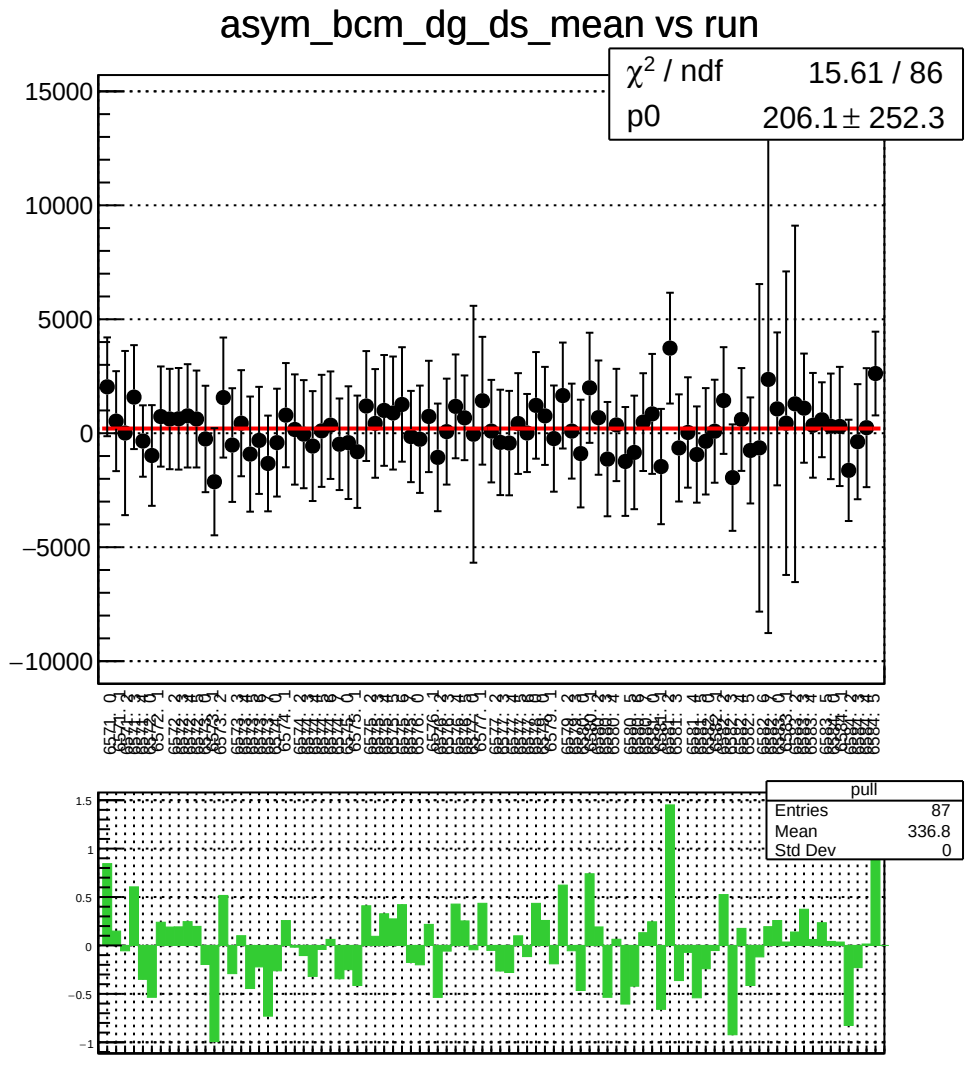

pull1D
Entries 87
Mean 0.001632
Std Dev 0.4008
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

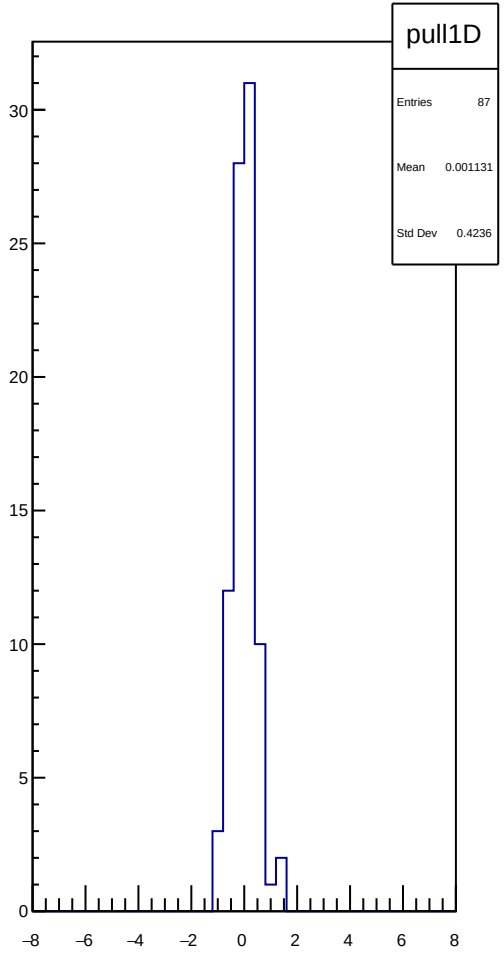

asym_bcm_an_us_rms vs run
χ² / ndf 5.865e+04 / 86
p0 225.7 ± 0.1769
1400
1200
1000
800
600
400
200

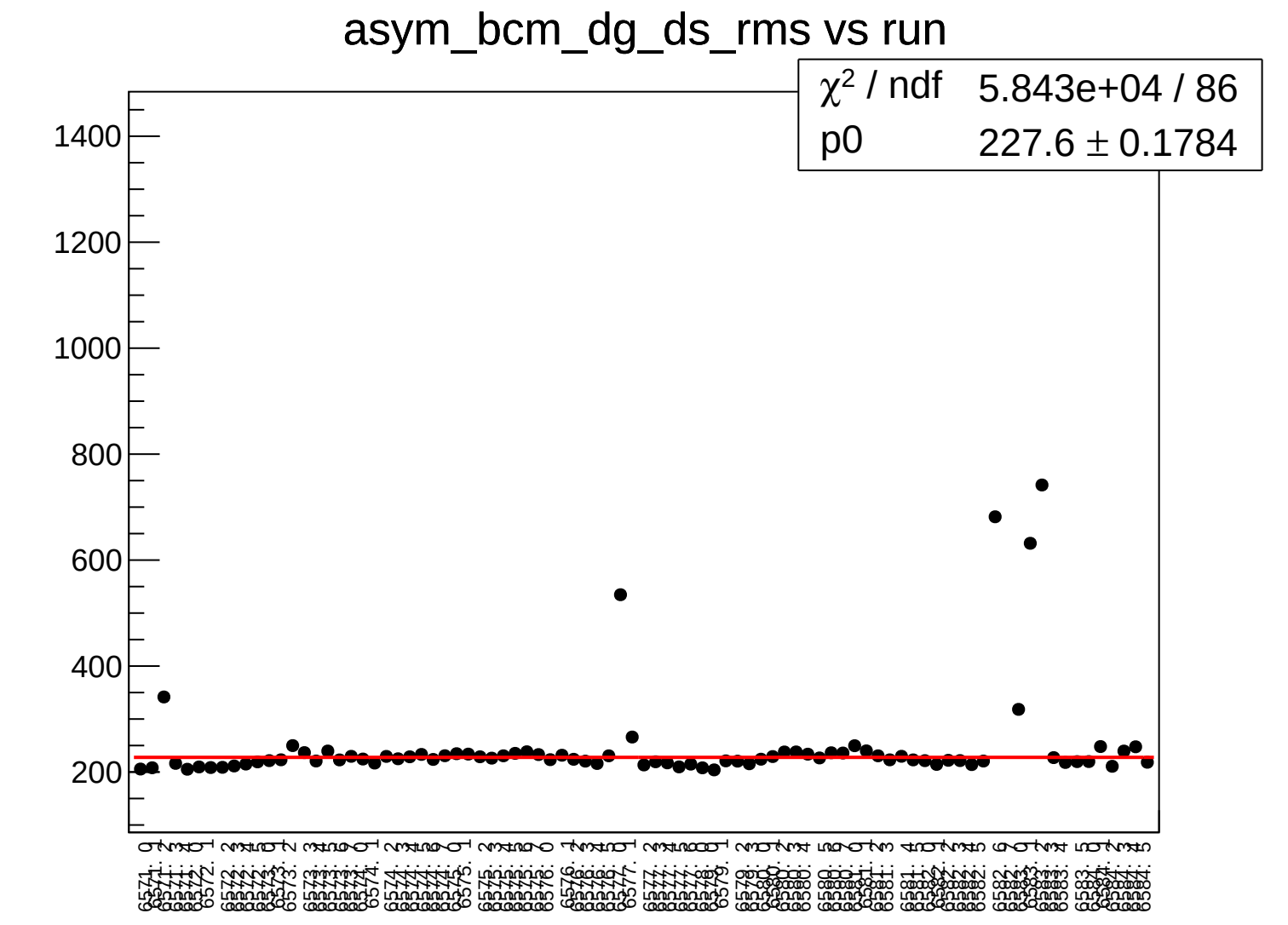

asym_bcm_dg_us_mean vs run
χ² / ndf 15.17 / 86
p0 279 ± 258.1
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 656.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

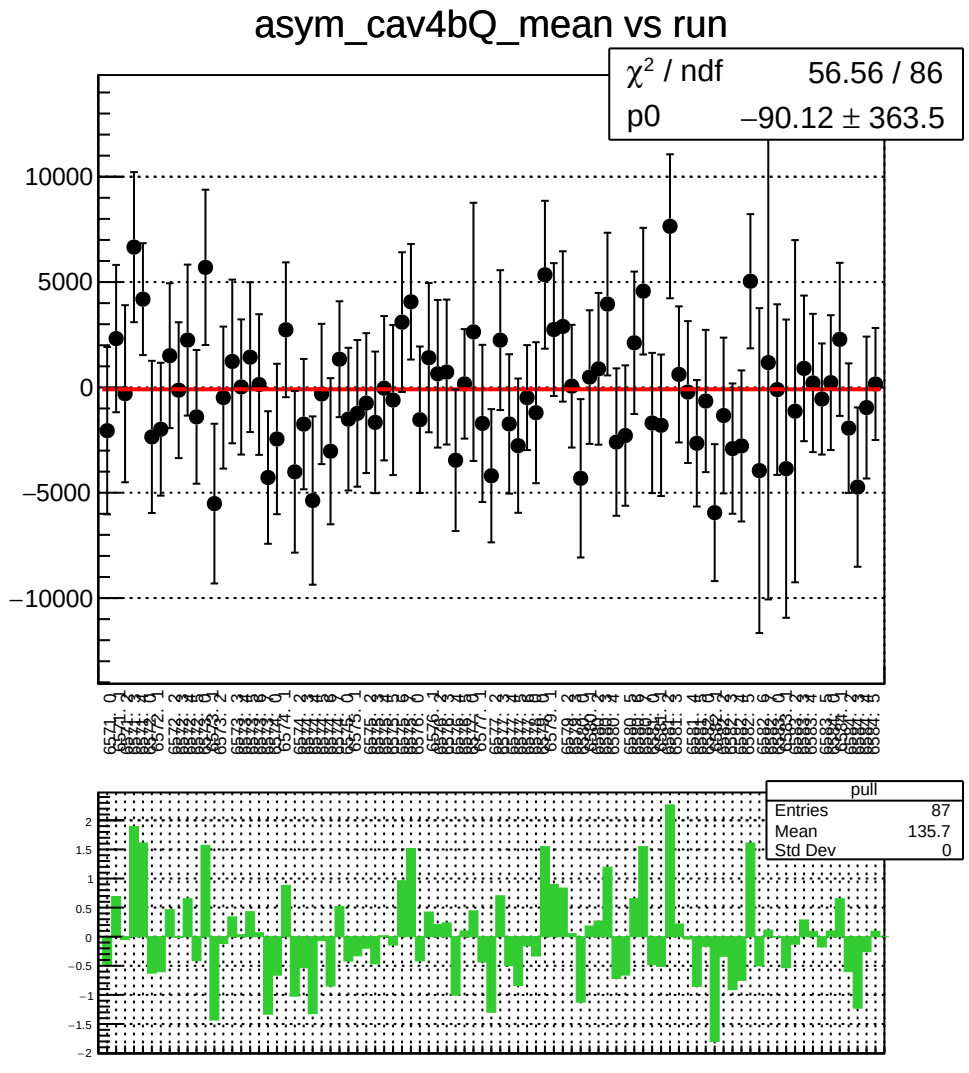

pull1D
Entries 87
Mean 0.00155
Std Dev 0.4176
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

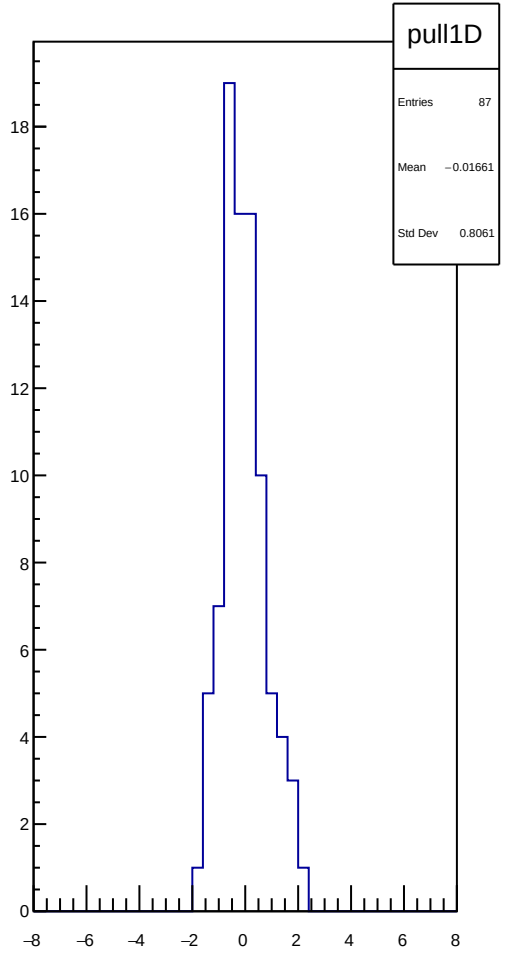

asym_bcm_dg_us_rms vs run
χ² / ndf 5.792e+04 / 86
p0 232.9 ± 0.1825
1400
1200
1000
800
600
400
200

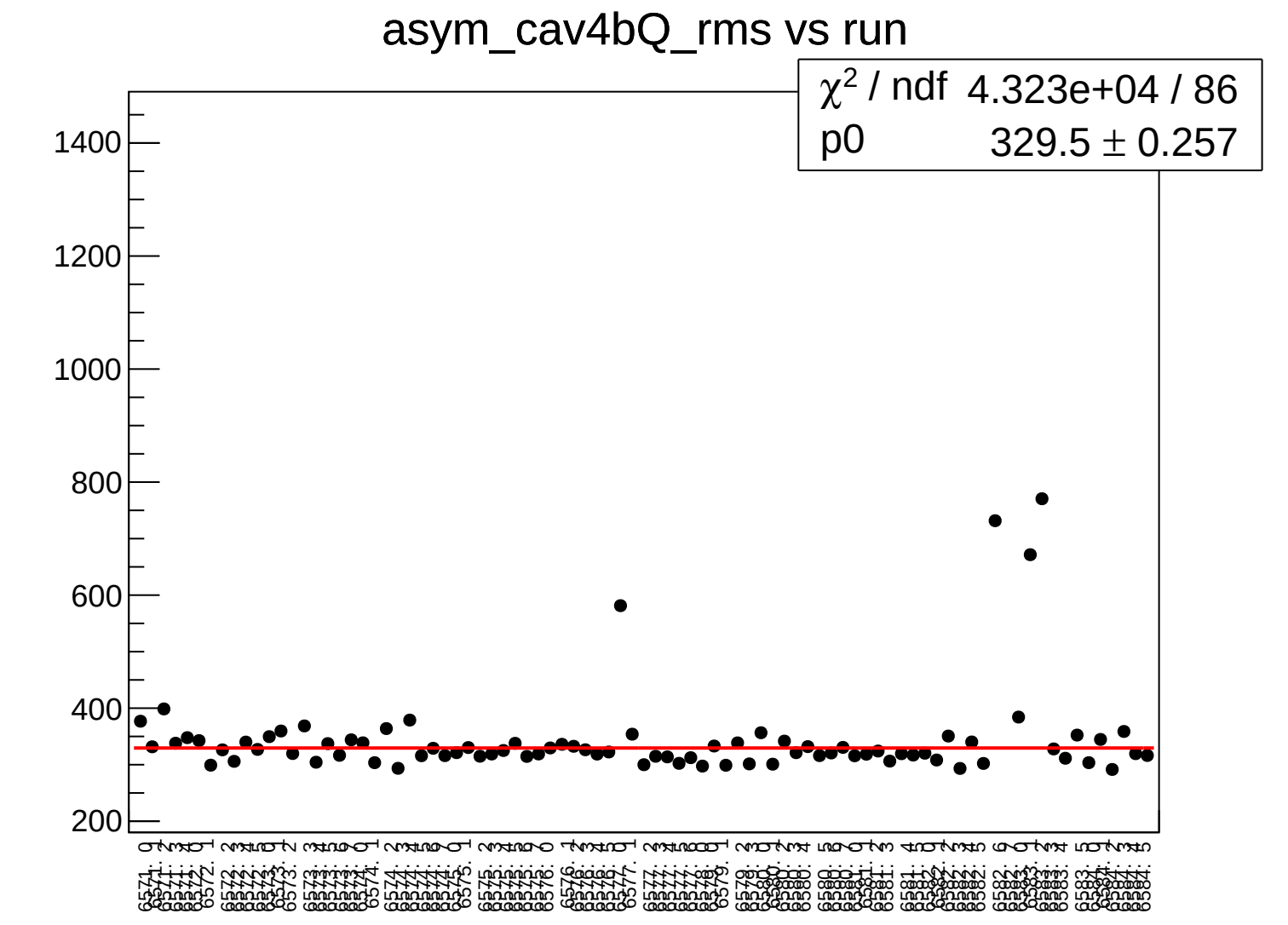

asym_bcm_dg_ds_mean vs run
χ² / ndf 15.61 / 86
p0 206.1 ± 252.3
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 336.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

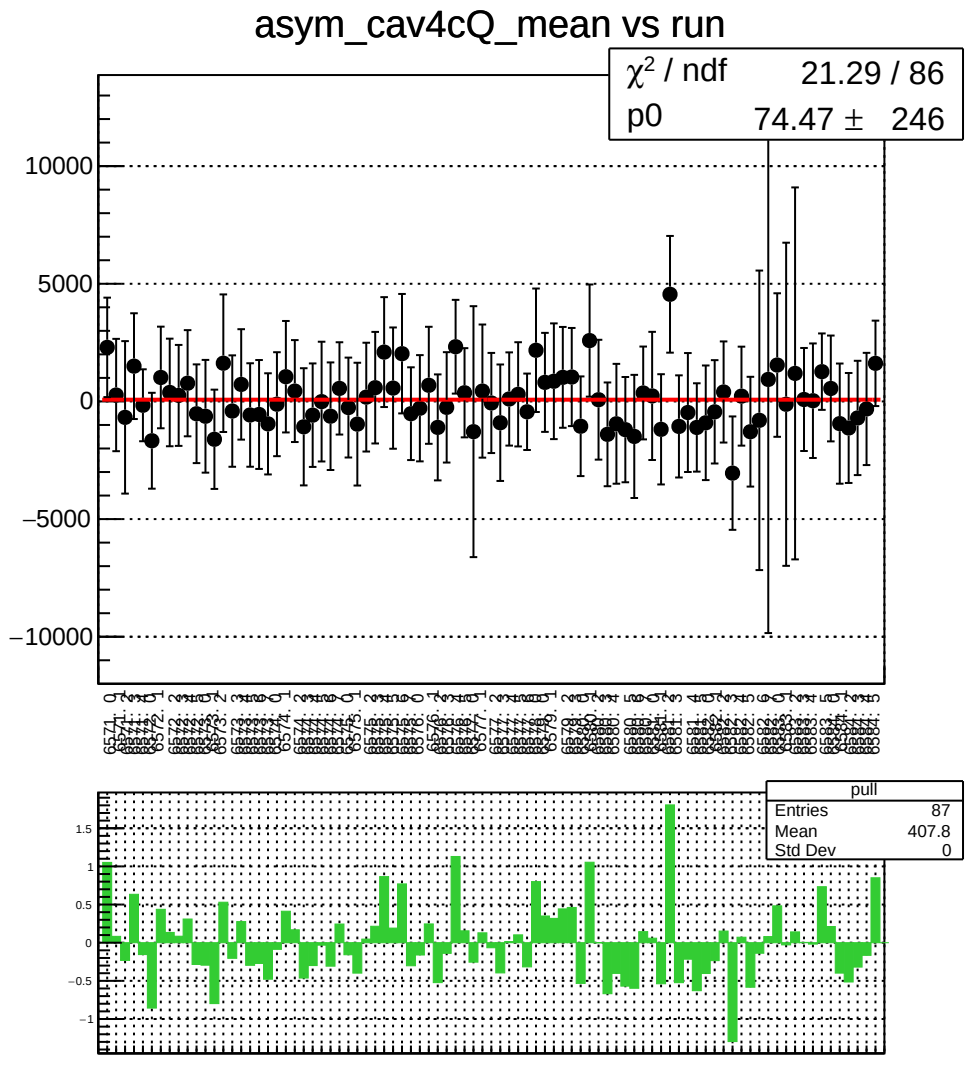

pull1D
Entries 87
Mean 0.001131
Std Dev 0.4236
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

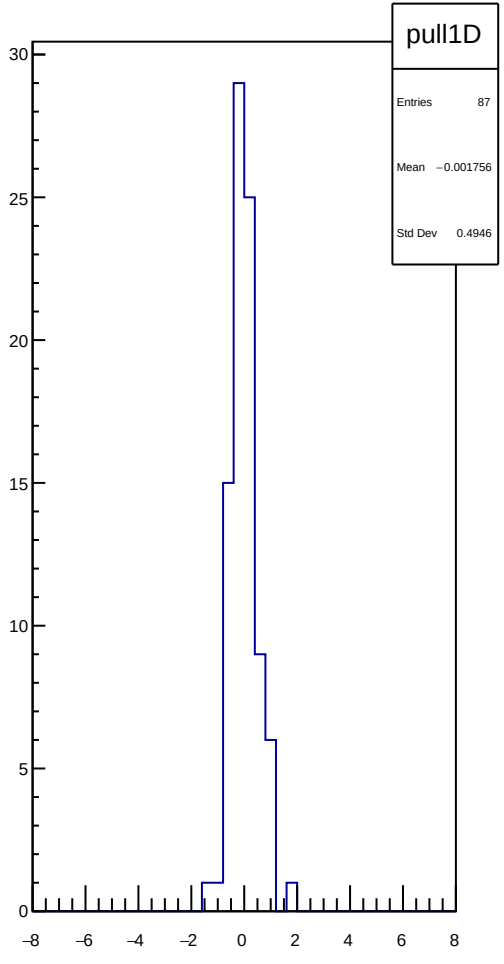

asym_bcm_dg_ds_rms vs run
χ² / ndf 5.843e+04 / 86
p0 227.6 ± 0.1784
1400
1200
1000
800
600
400
200

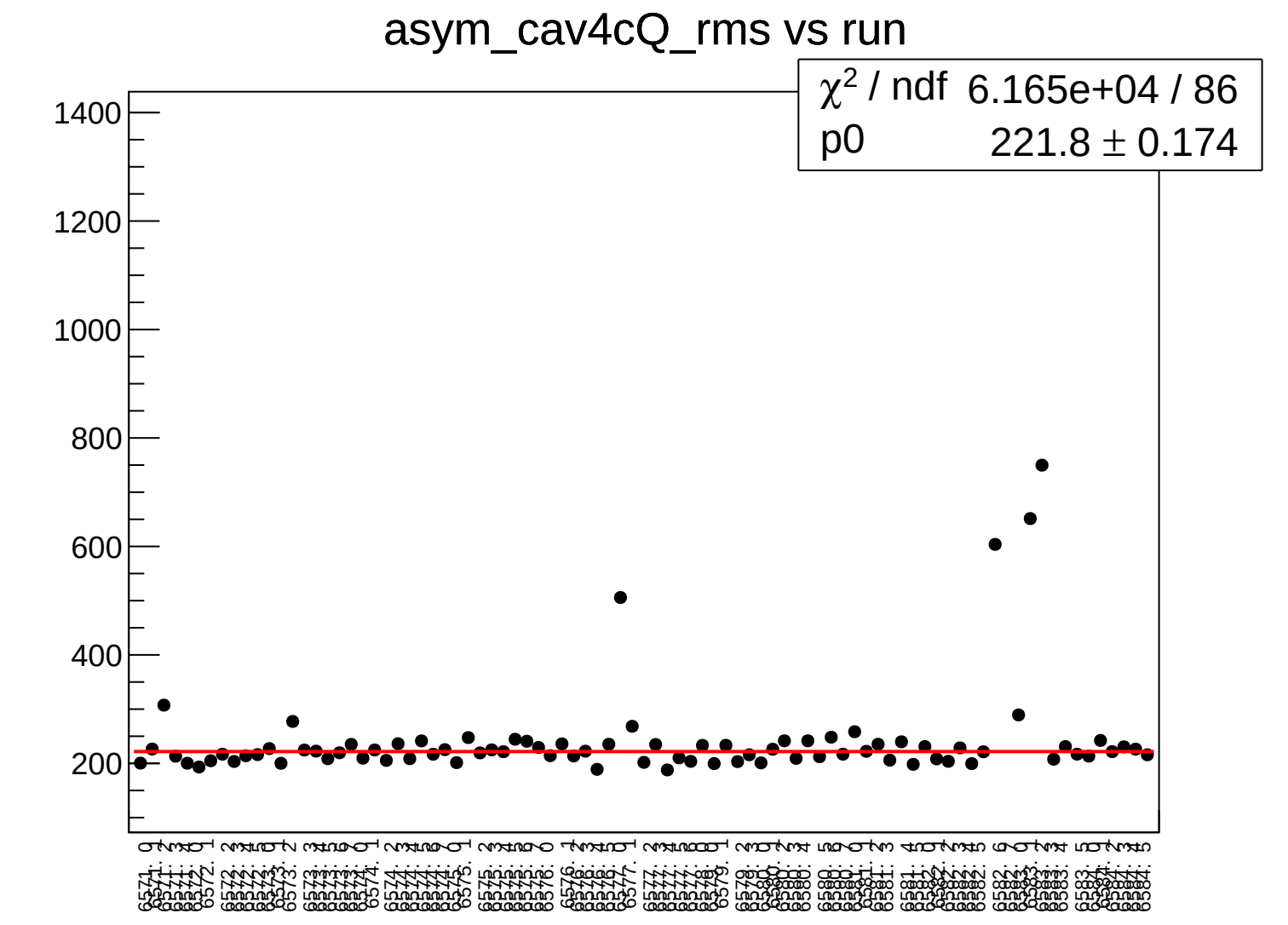

asym_cav4bQ_mean vs run
χ² / ndf 56.56 / 86
p0 −90.12 ± 363.5
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 135.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

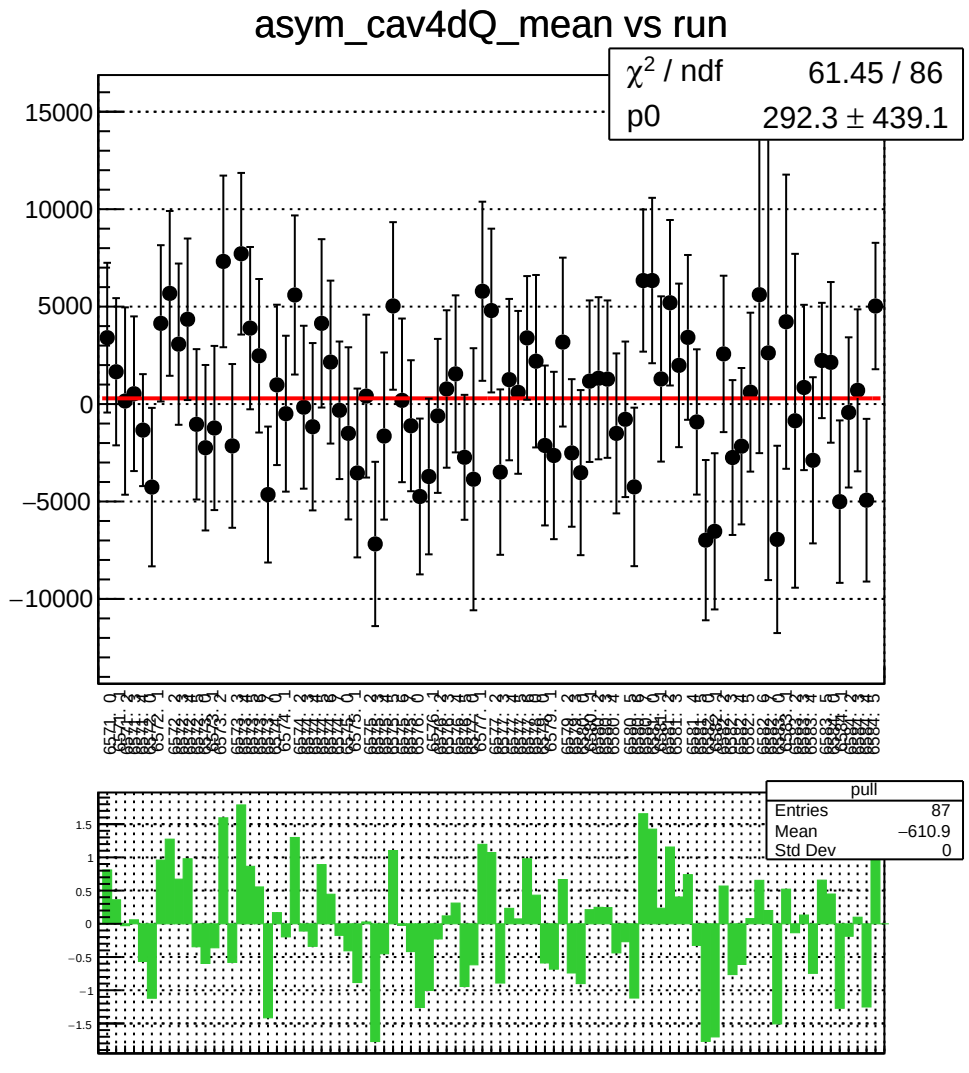

pull1D
Entries 87
Mean −0.01661
Std Dev 0.8061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

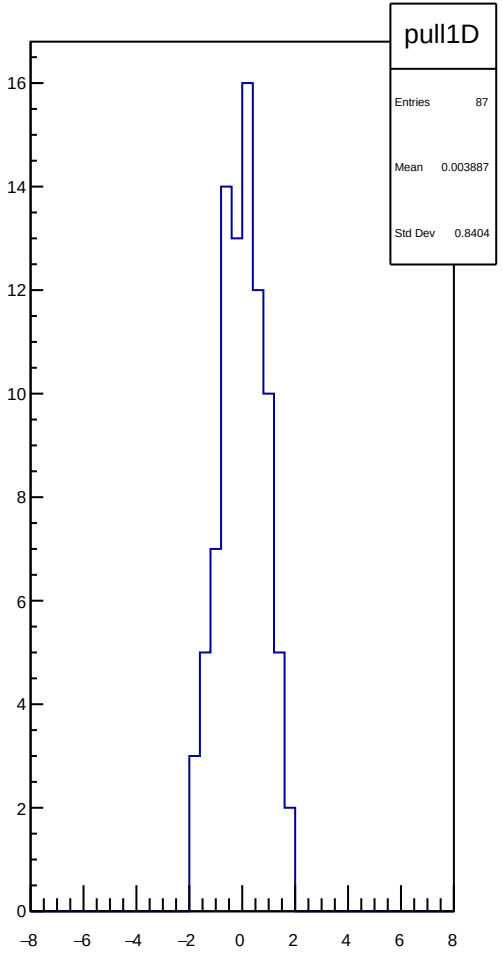

asym_cav4bQ_rms vs run
χ² / ndf 4.323e+04 / 86
p0 329.5 ± 0.257
1400
1200
1000
800
600
400
200

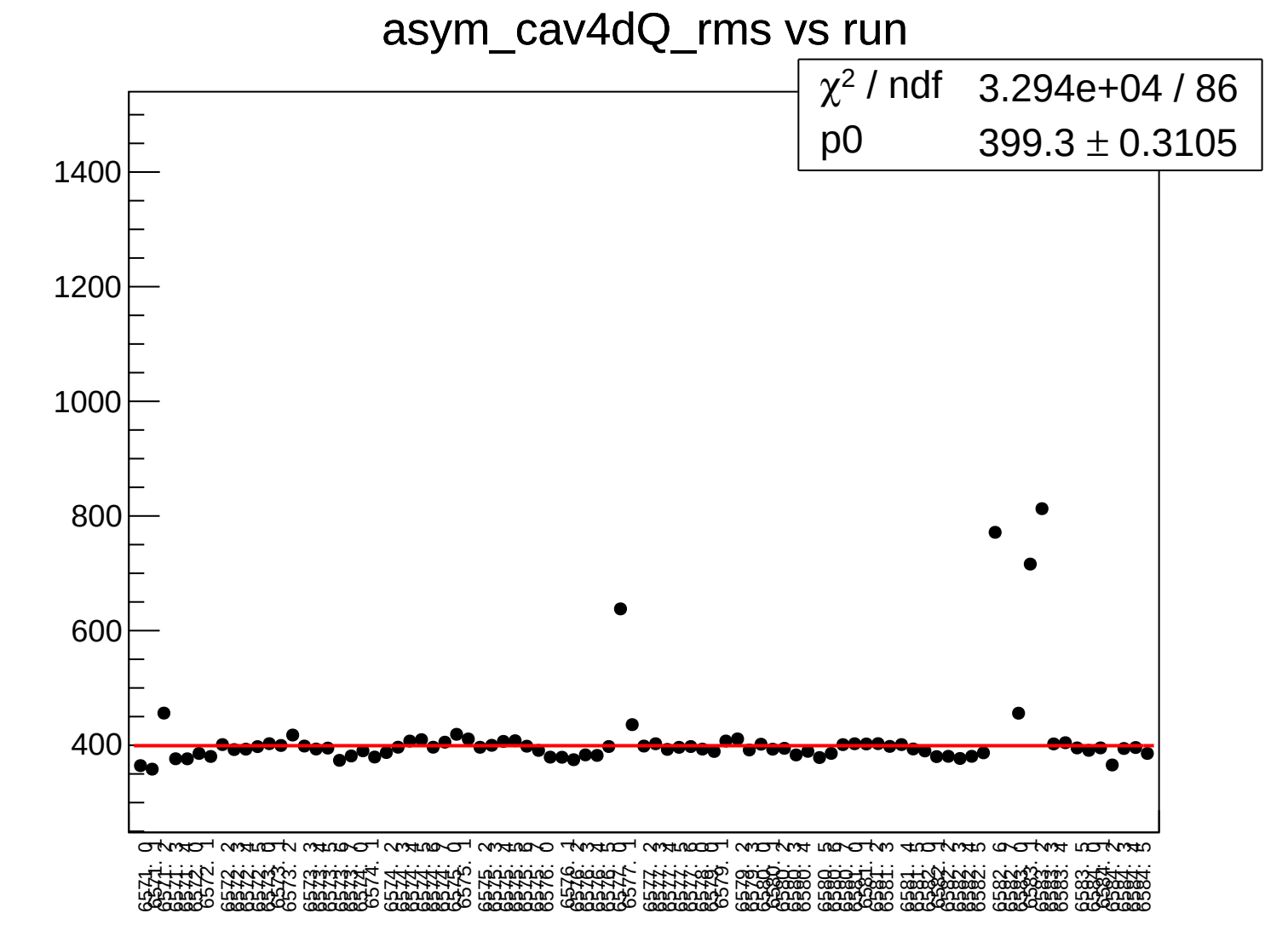

asym_cav4cQ_mean vs run
χ² / ndf 21.29 / 86
p0 74.47 ± 246
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 407.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

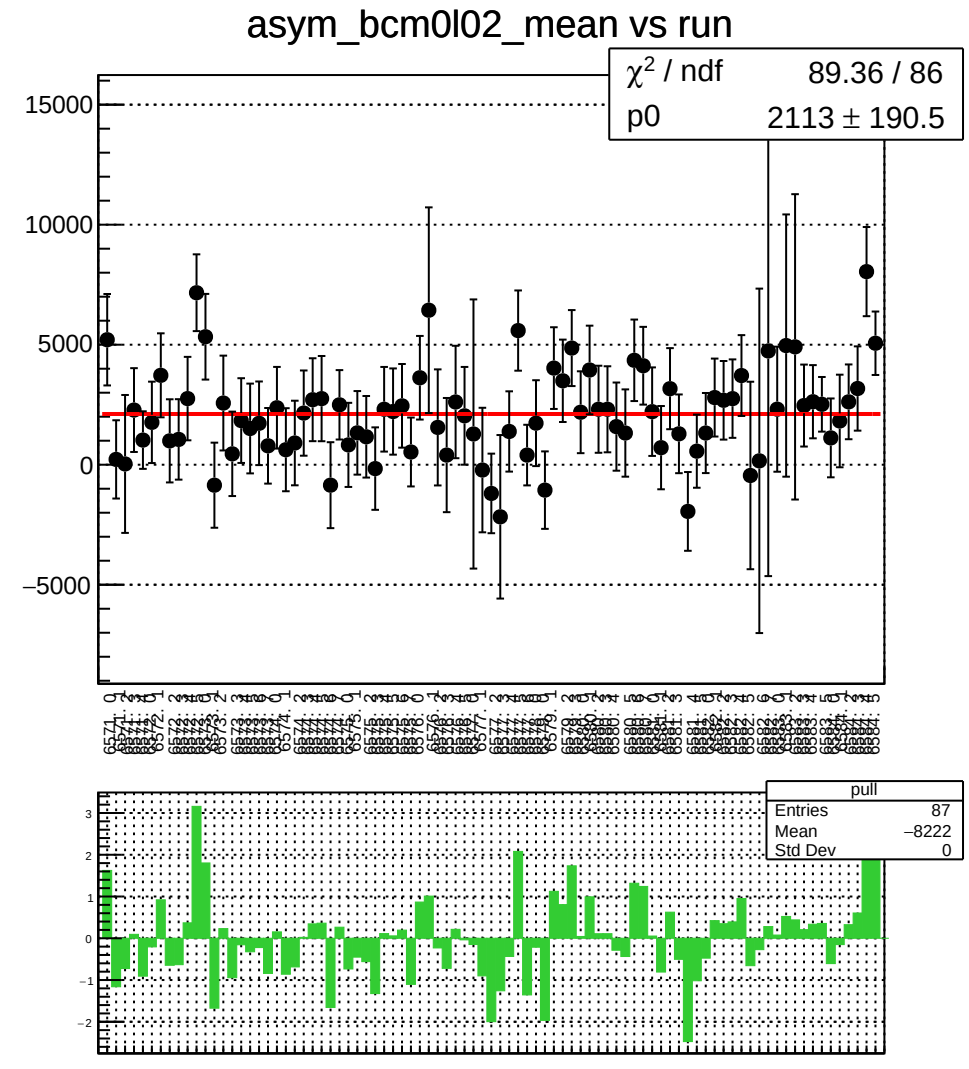

pull1D
Entries 87
Mean −0.001756
Std Dev 0.4946
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

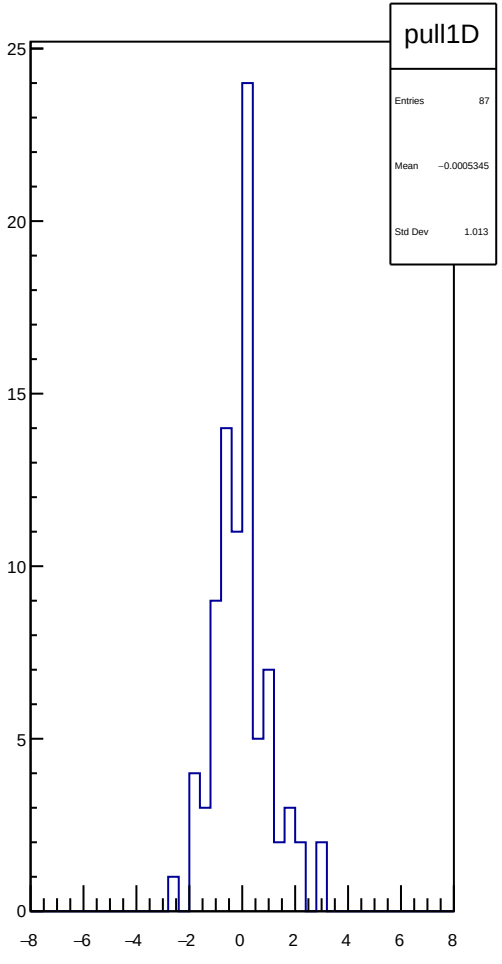

asym_cav4cQ_rms vs run
χ² / ndf 6.165e+04 / 86
p0 221.8 ± 0.174
1400
1200
1000
800
600
400
200

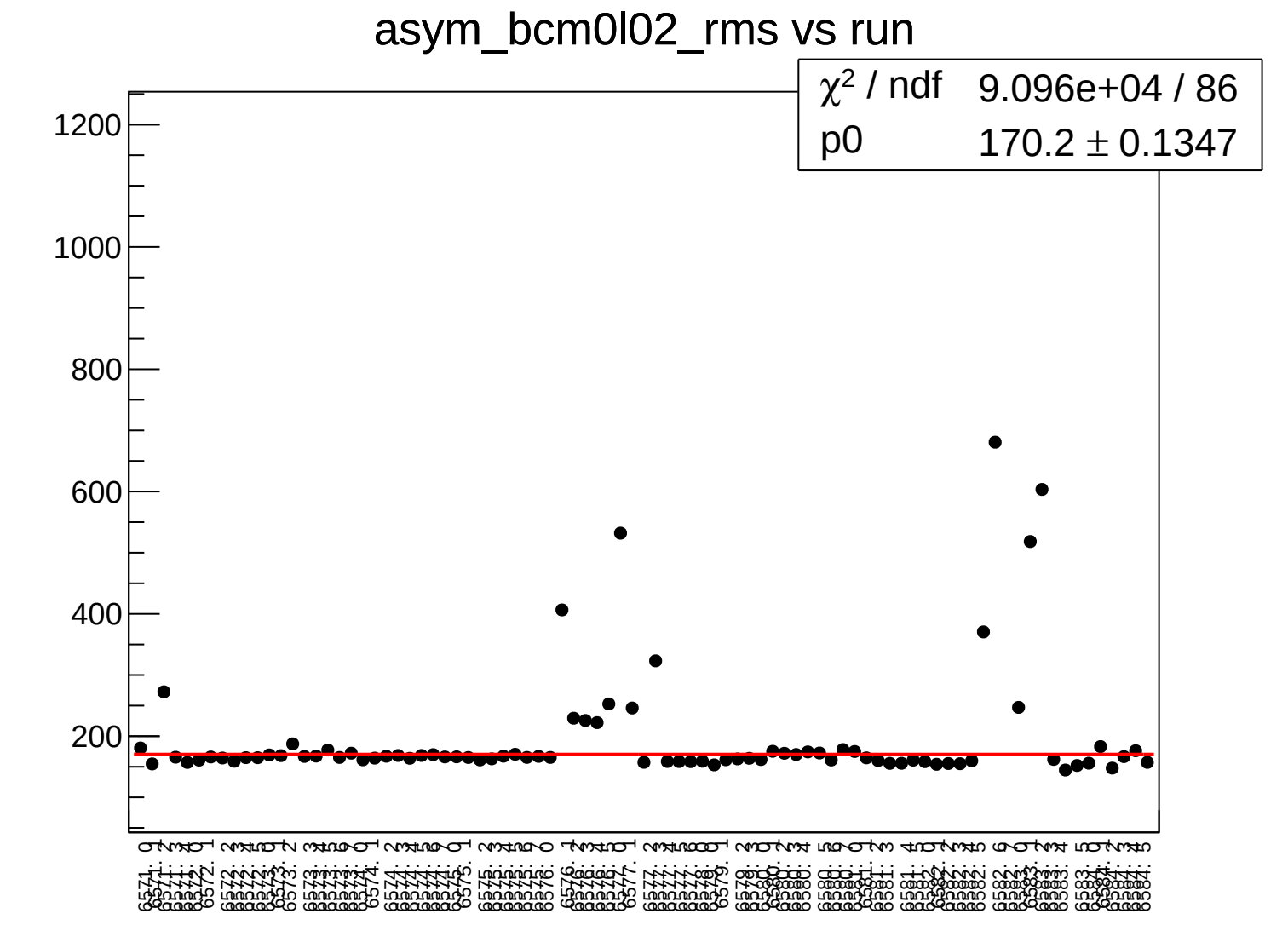

asym_cav4dQ_mean vs run
χ² / ndf 61.45 / 86
p0 292.3 ± 439.1
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −610.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

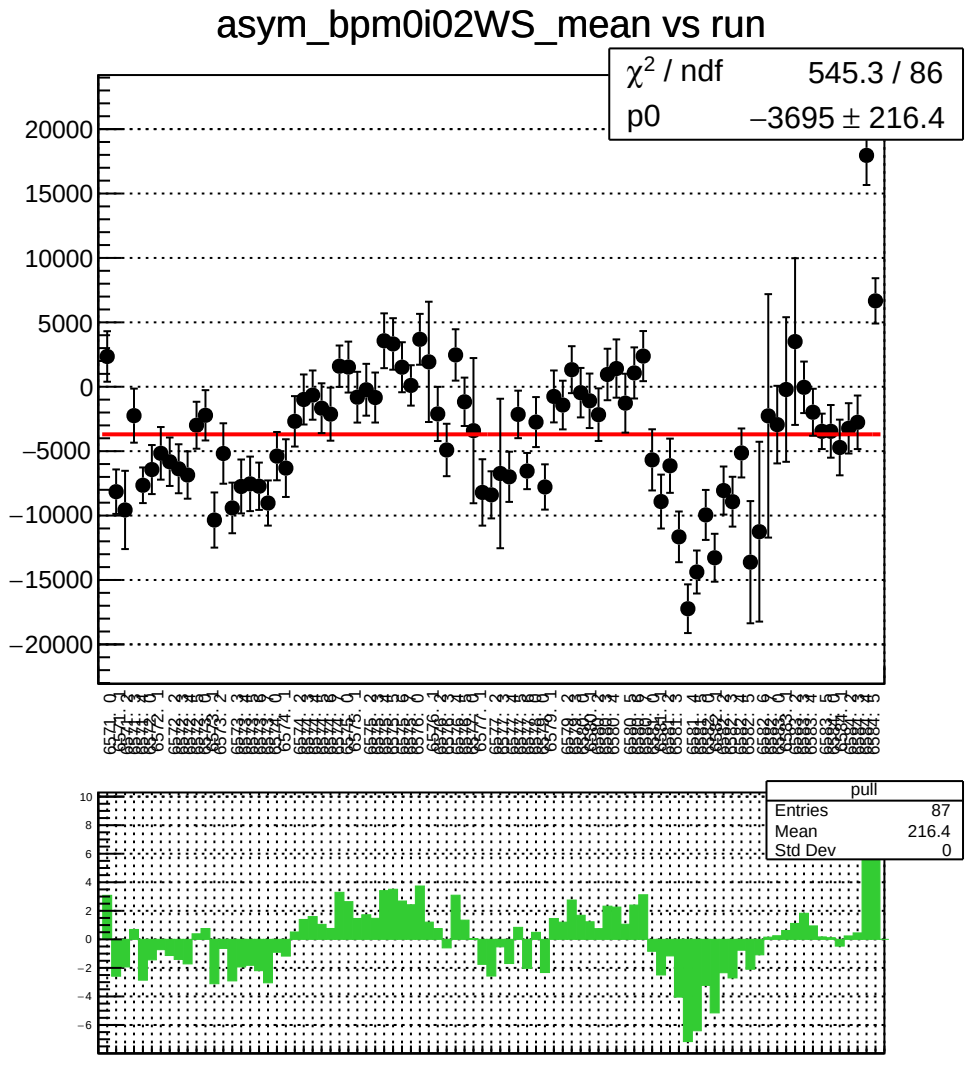

pull1D
Entries 87
Mean 0.003887
Std Dev 0.8404
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

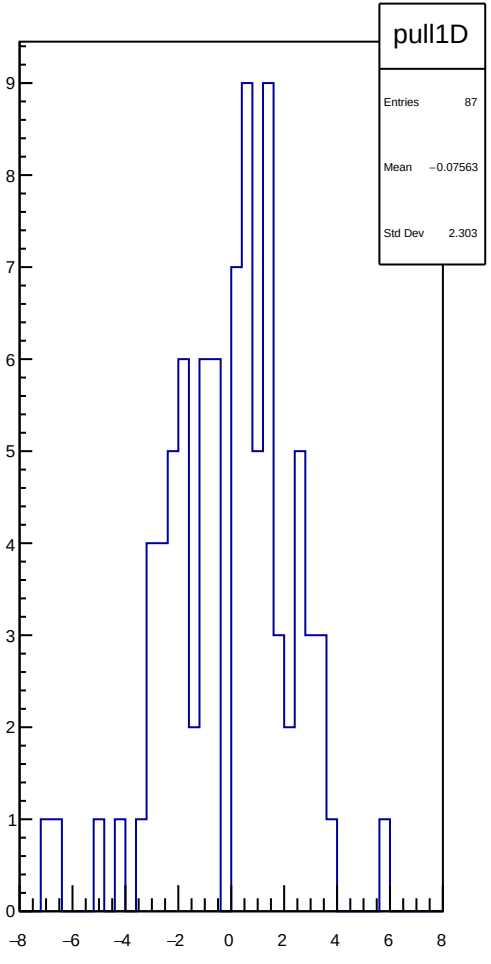

asym_cav4dQ_rms vs run
χ² / ndf 3.294e+04 / 86
p0 399.3 ± 0.3105
1400
1200
1000
800
600
400

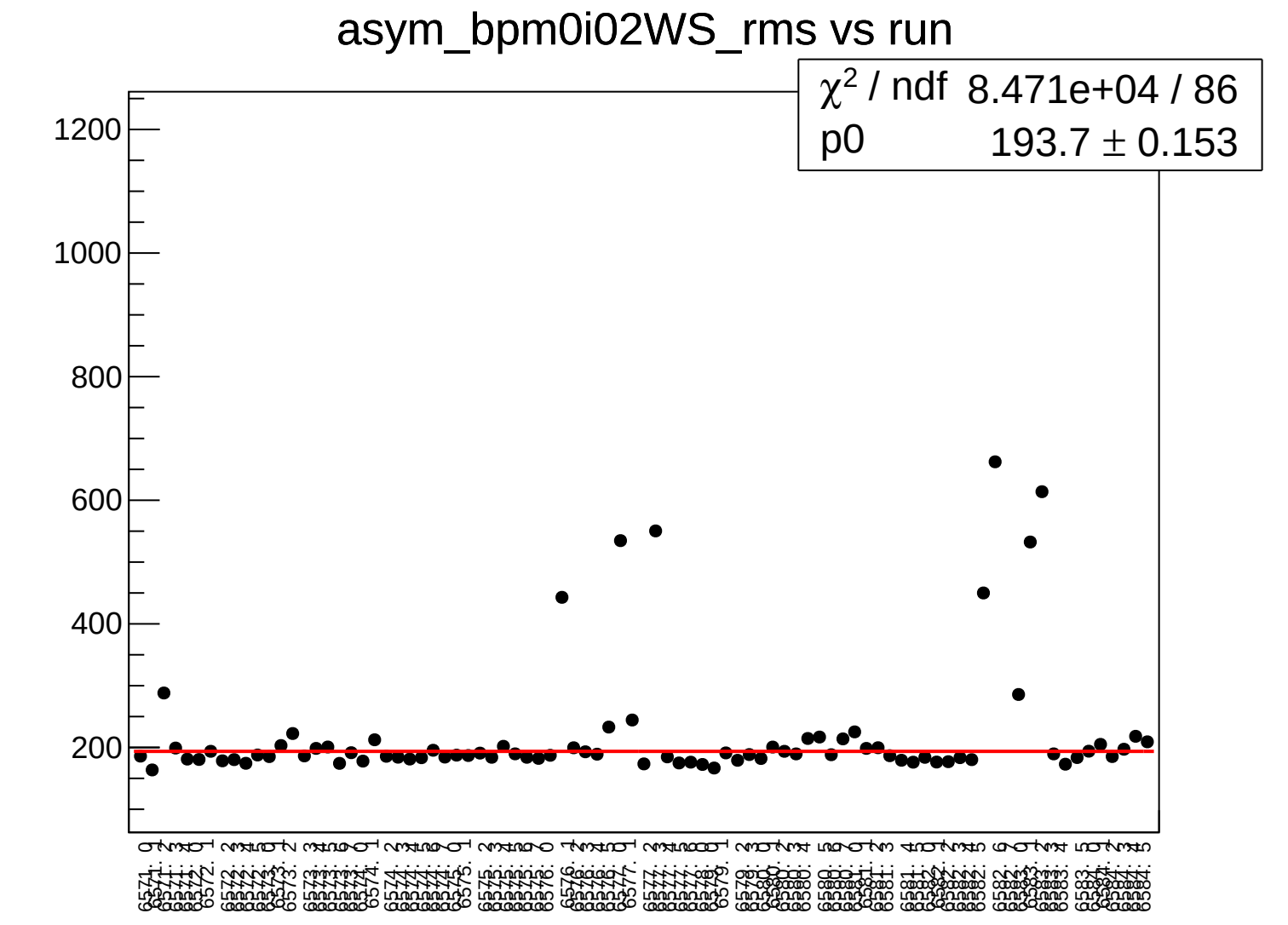

asym_bcm0l02_mean vs run
χ² / ndf 89.36 / 86
p0 2113 ± 190.5
15000
10000
5000
0
−5000
pull
Entries 87
Mean −8222
Std Dev 0
3
2
1
0
−1
−2

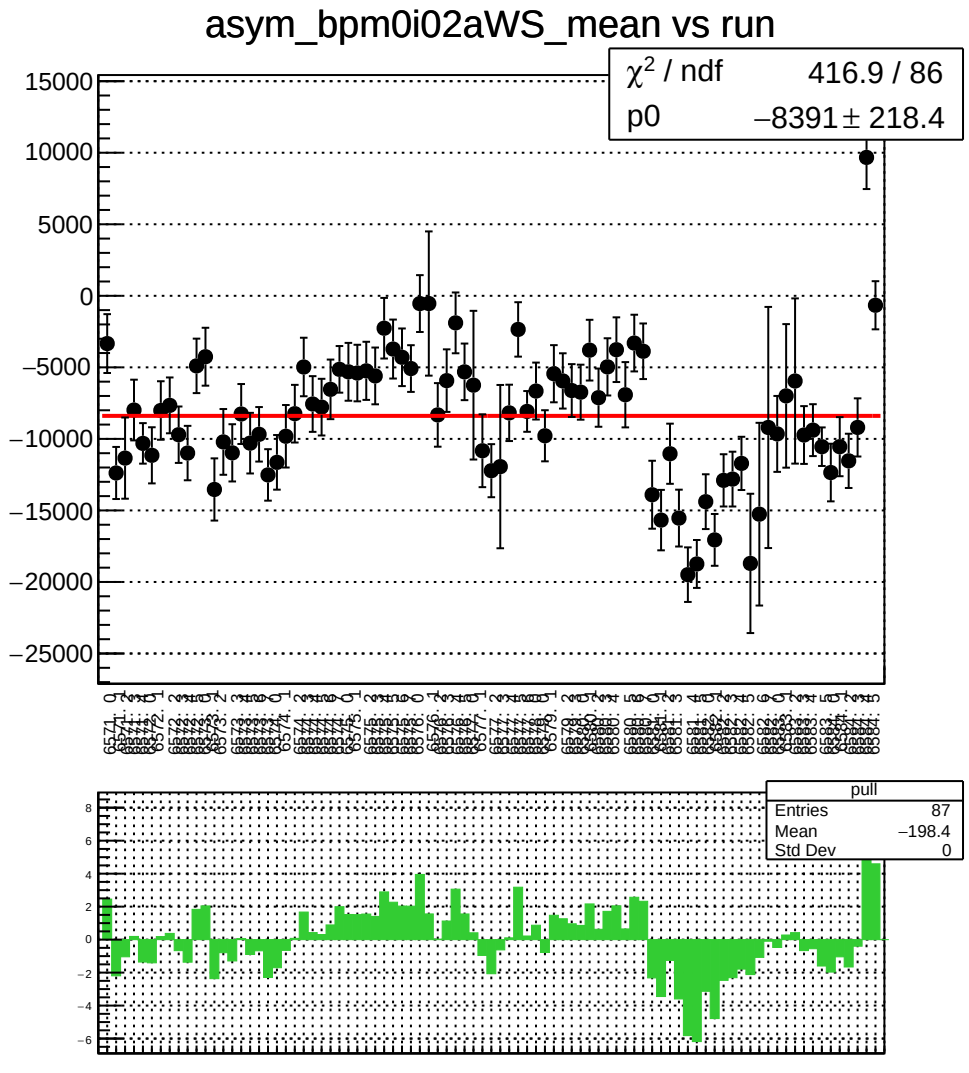

pull1D
Entries 87
Mean −0.0005345
Std Dev 1.013
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

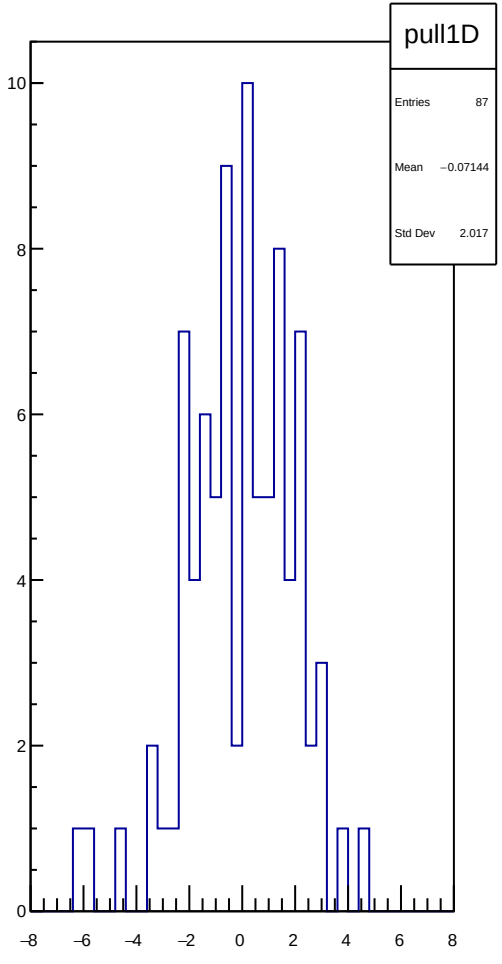

asym_bcm0l02_rms vs run
χ² / ndf 9.096e+04 / 86
p0 170.2 ± 0.1347
1200
1000
800
600
400
200

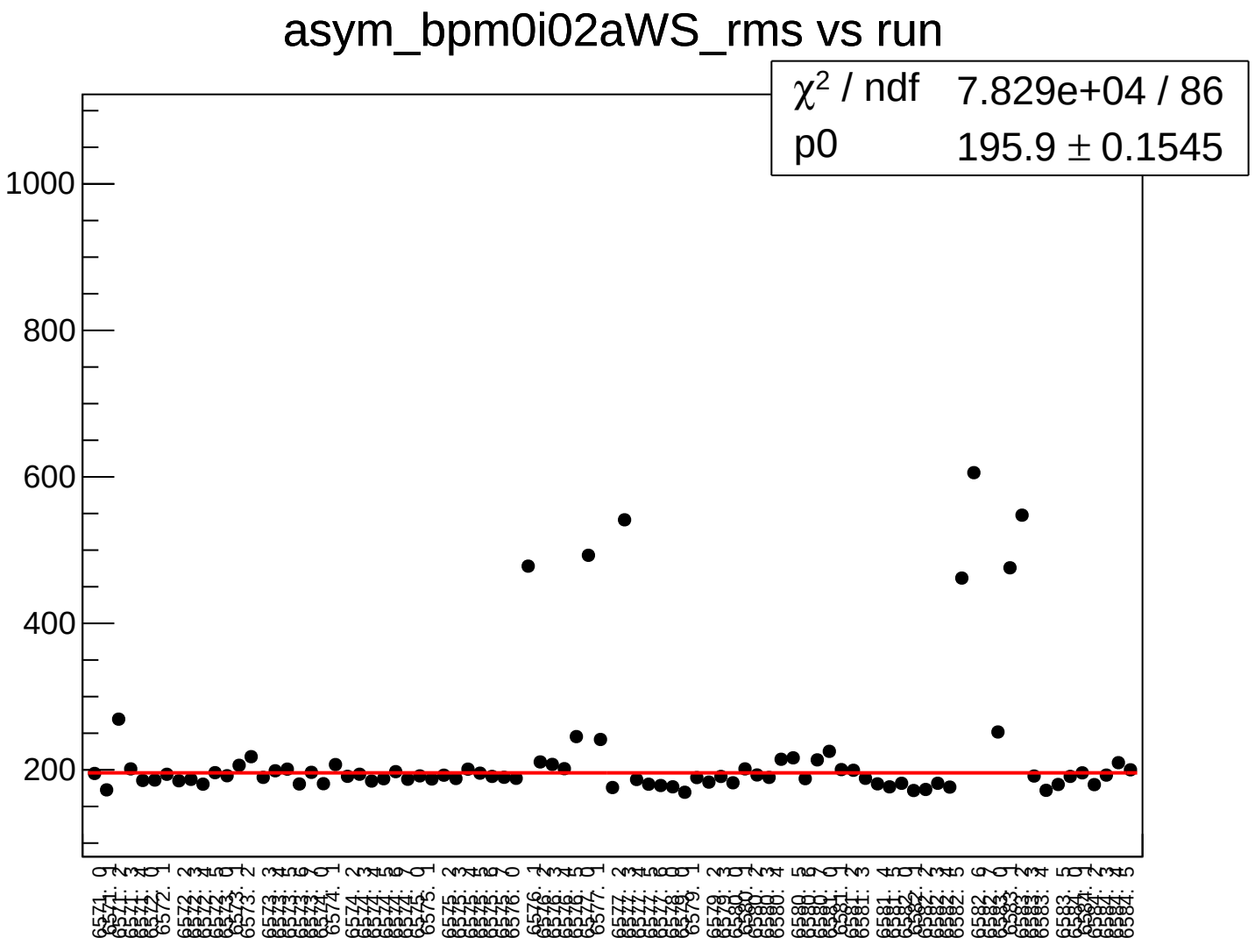

asym_bpm0i02WS_mean vs run
χ² / ndf 545.3 / 86
p0 −3695 ± 216.4
pull
Entries 87
Mean 216.4
Std Dev 0

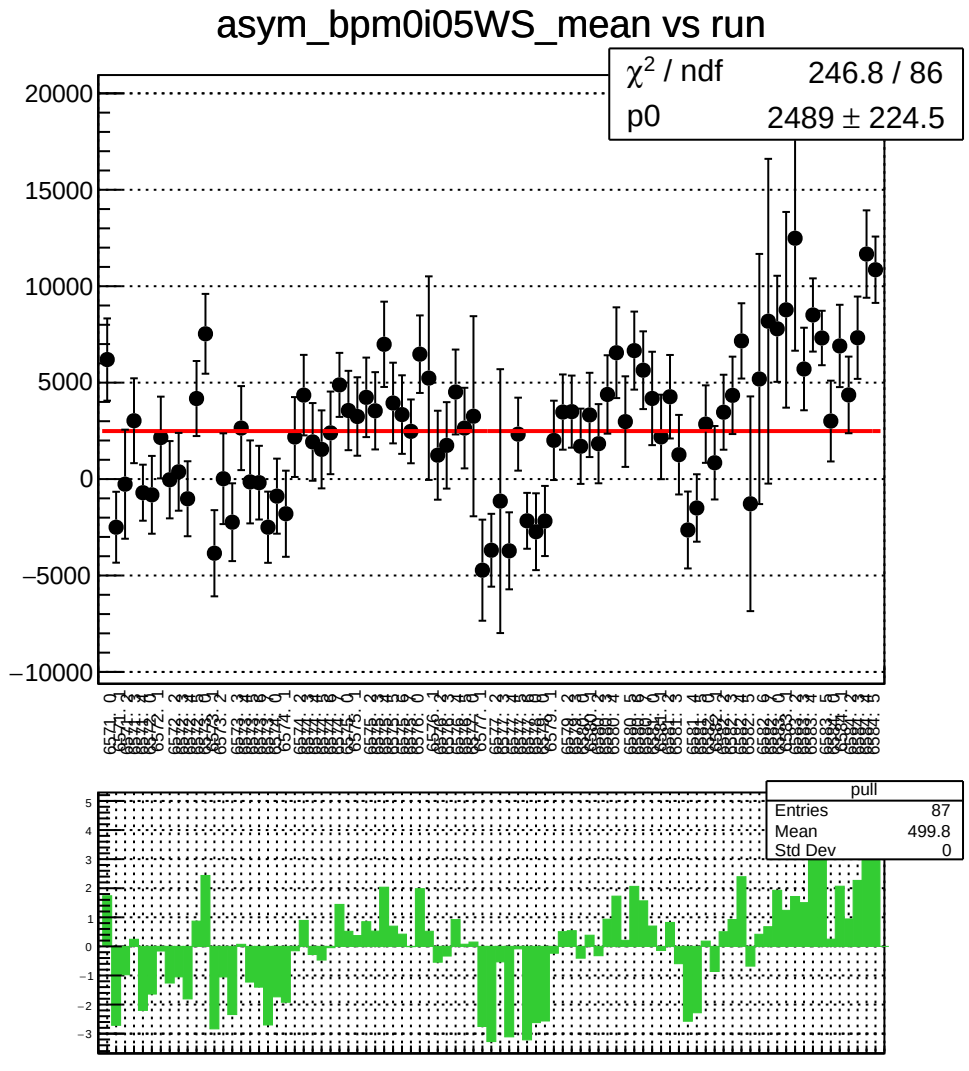

pull1D
Entries 87
Mean −0.07563
Std Dev 2.303

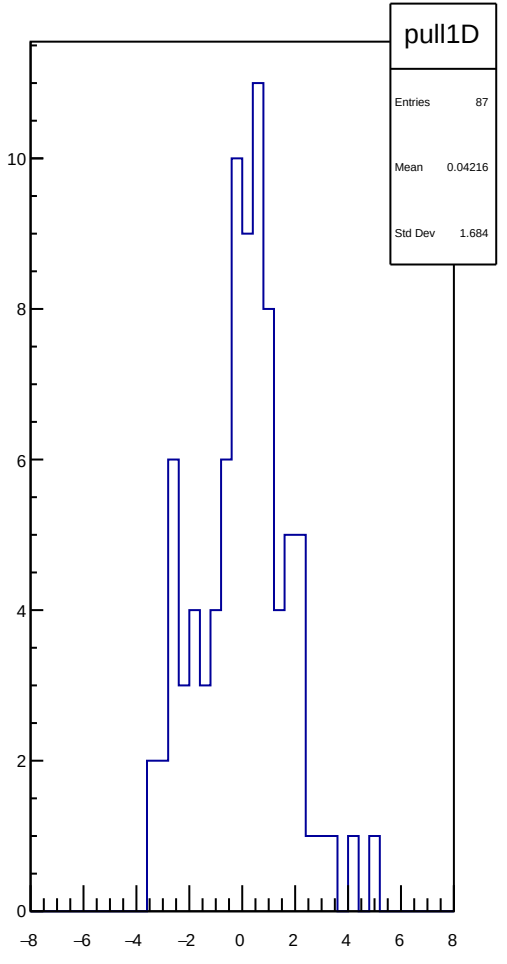

asym_bpm0i02WS_rms vs run
χ^2 / ndf 8.471e+04 / 86
p0 193.7 ± 0.153
1200
1000
800
600
400
200

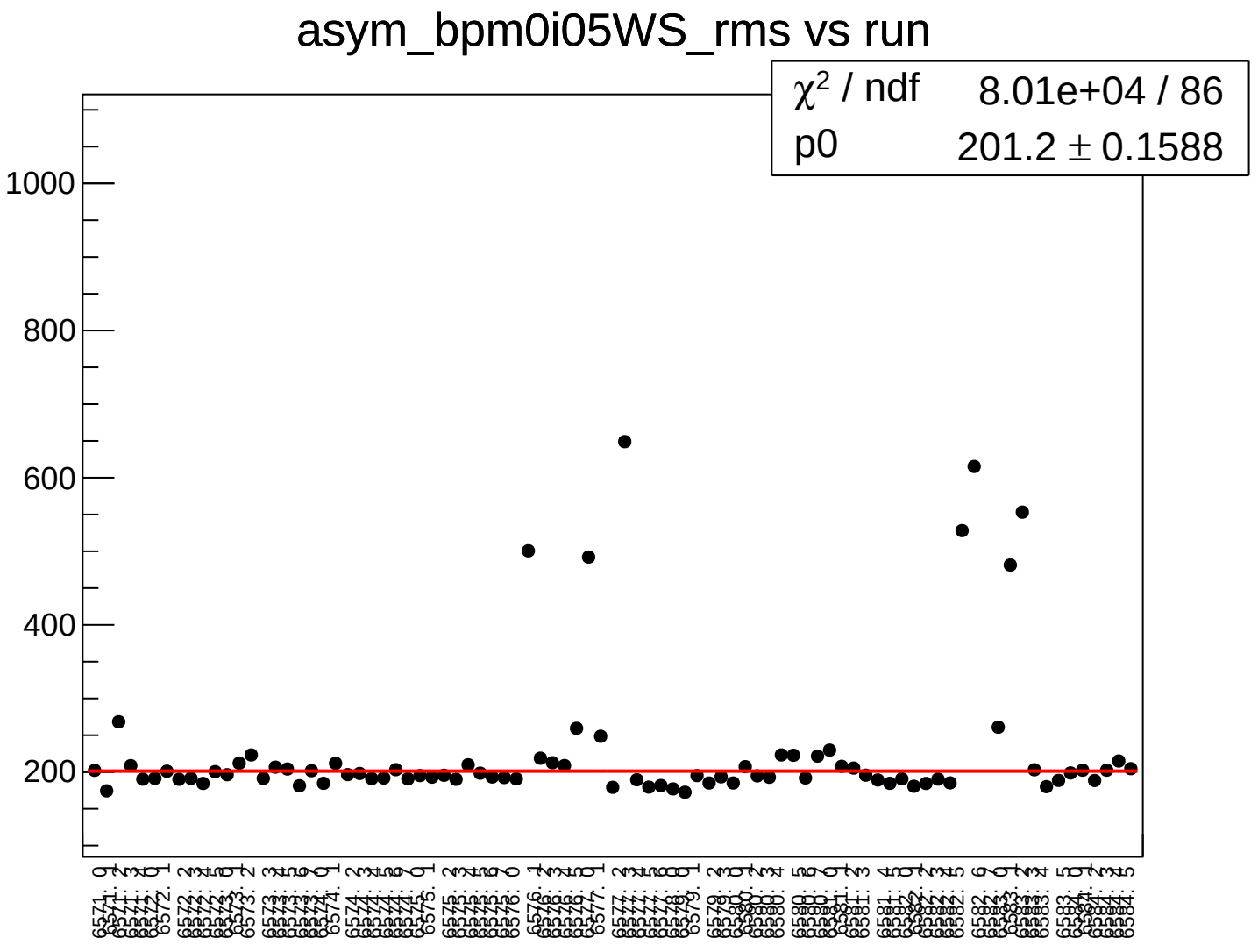

asym_bpm0i02aWS_mean vs run
χ² / ndf 416.9 / 86
p0 −8391 ± 218.4
pull
Entries 87
Mean −198.4
Std Dev 0

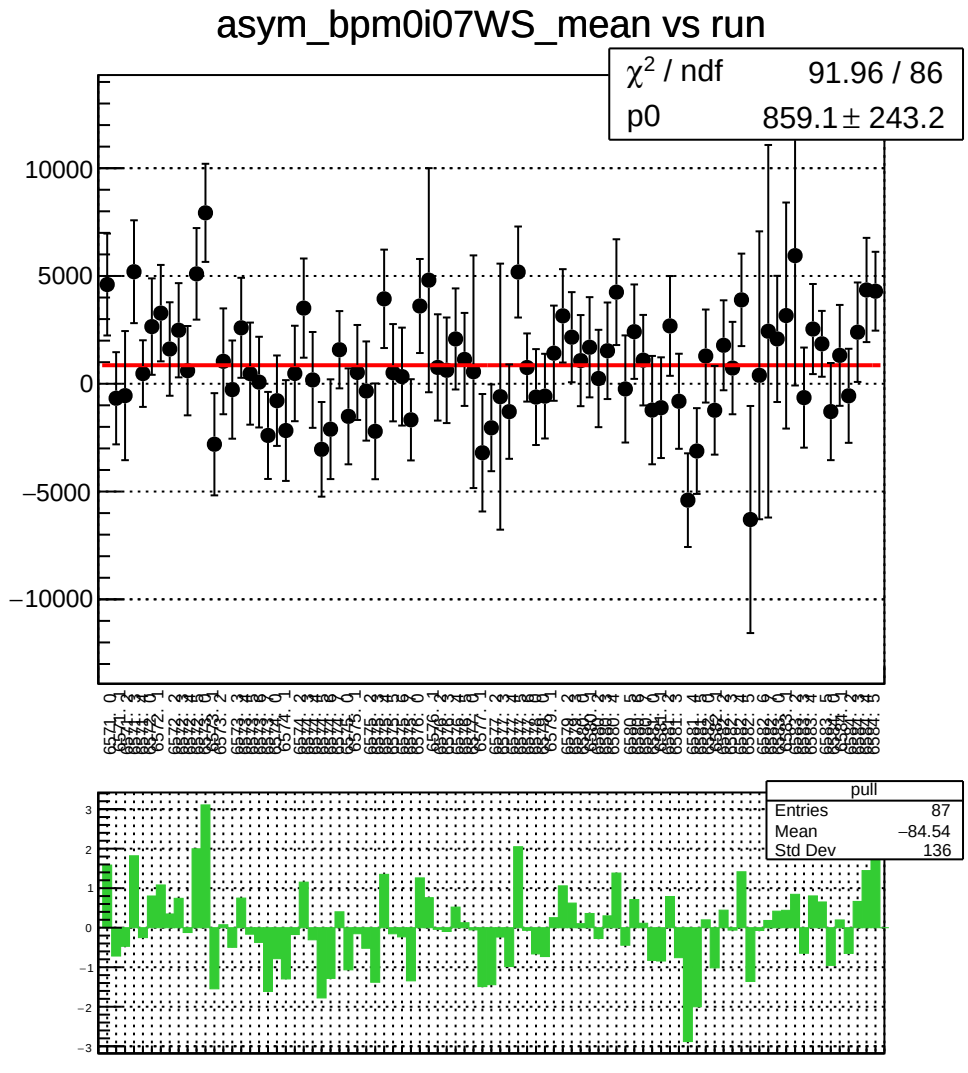

pull1D
Entries 87
Mean −0.07144
Std Dev 2.017

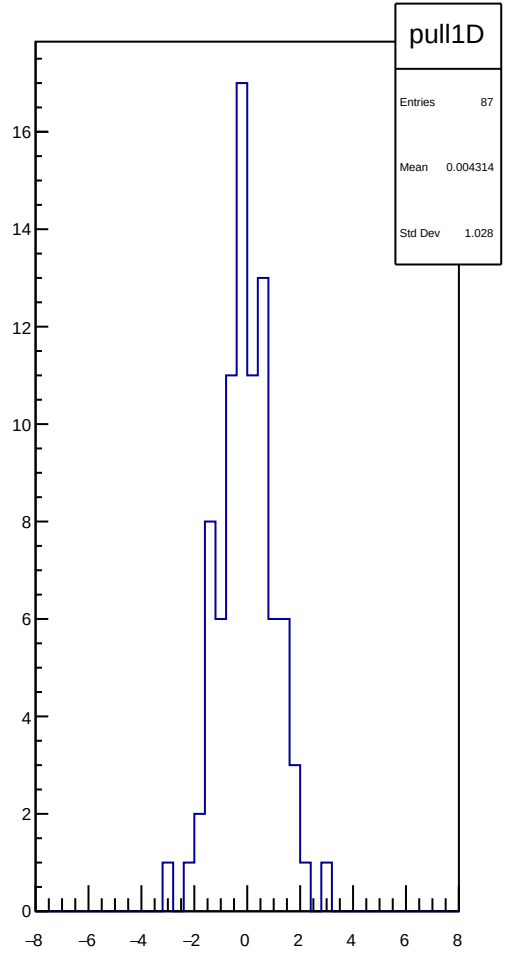

asym_bpm0i02aWS_rms vs run
χ² / ndf 7.829e+04 / 86
p0 195.9 ± 0.1545
1000
800
600
400
200

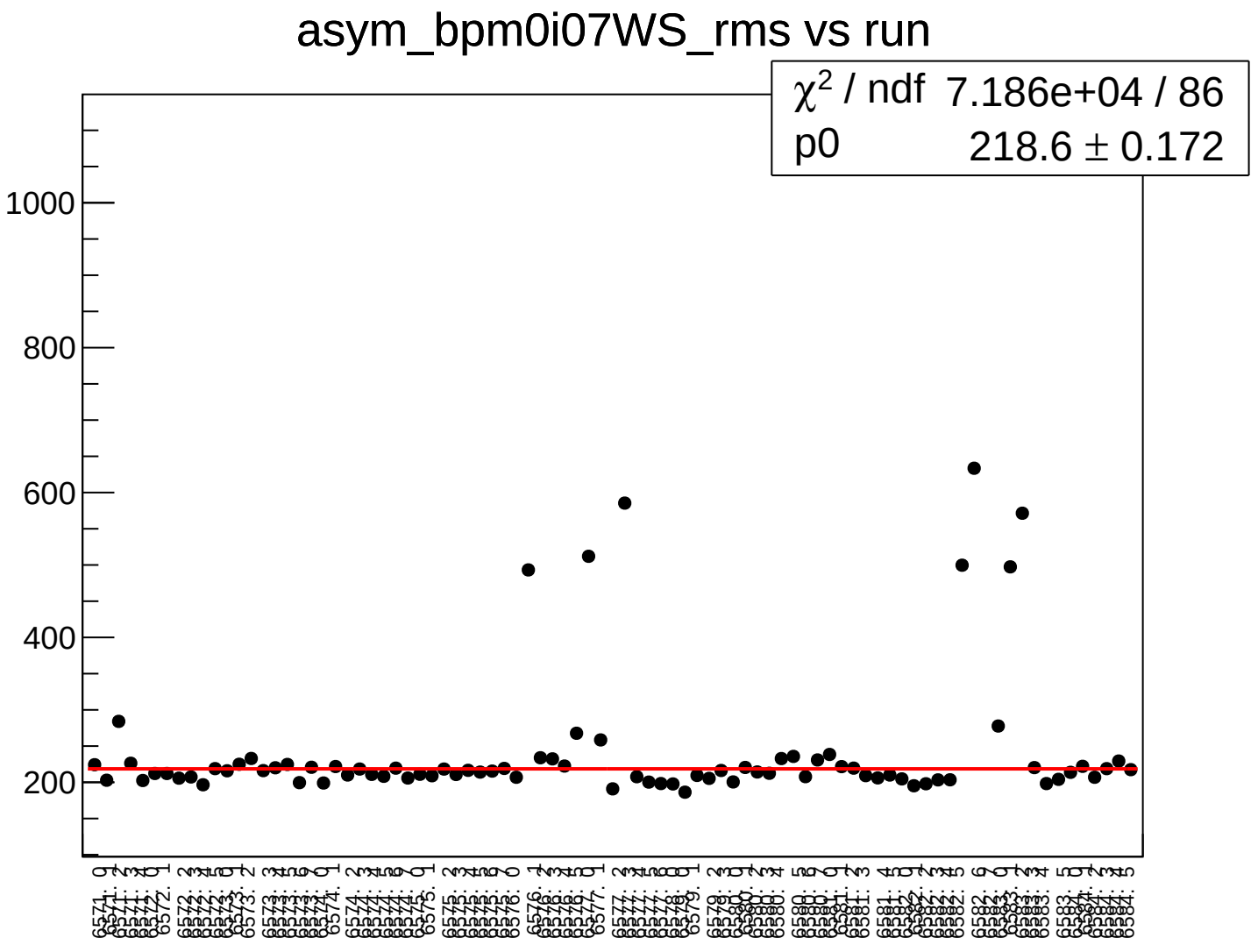

asym_bpm0i05WS_mean vs run
χ² / ndf 246.8 / 86
p0 2489 ± 224.5
pull
Entries 87
Mean 499.8
Std Dev 0

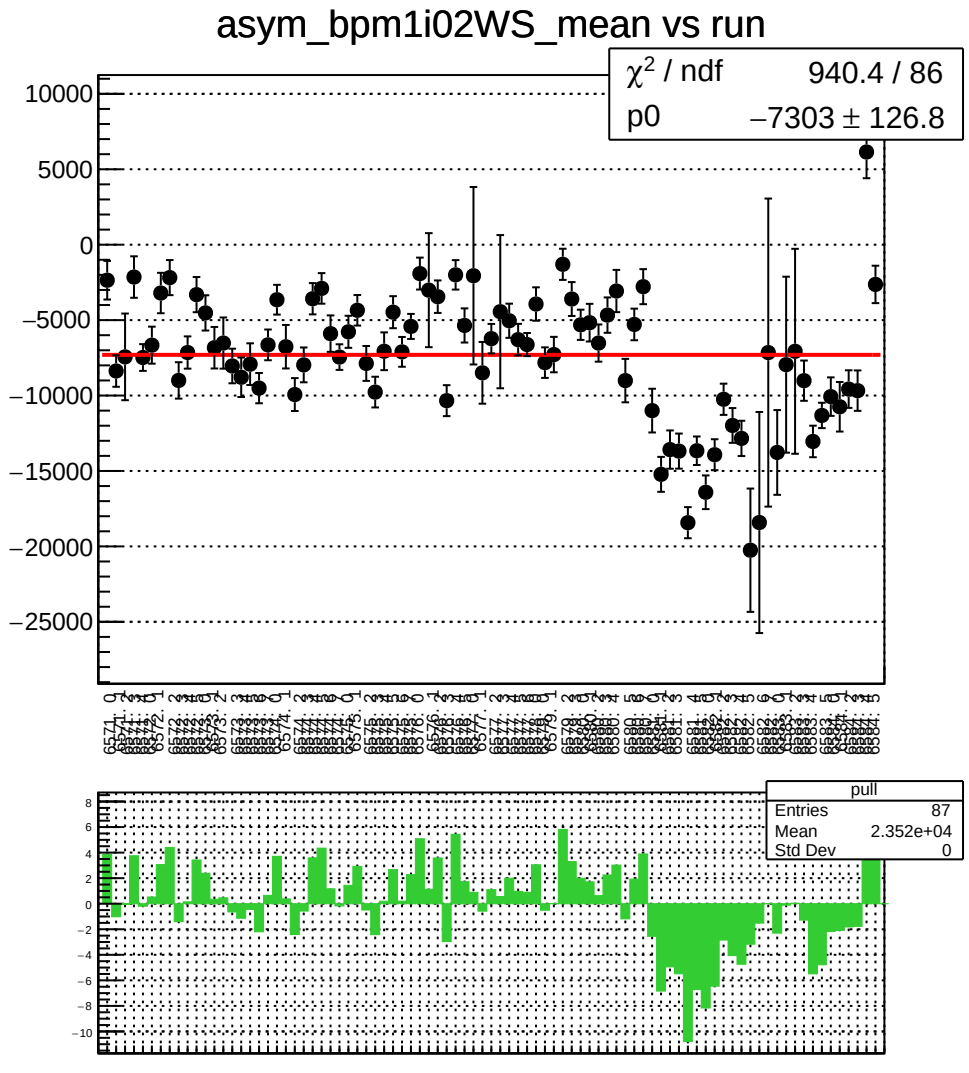

pull1D
Entries 87
Mean 0.04216
Std Dev 1.684

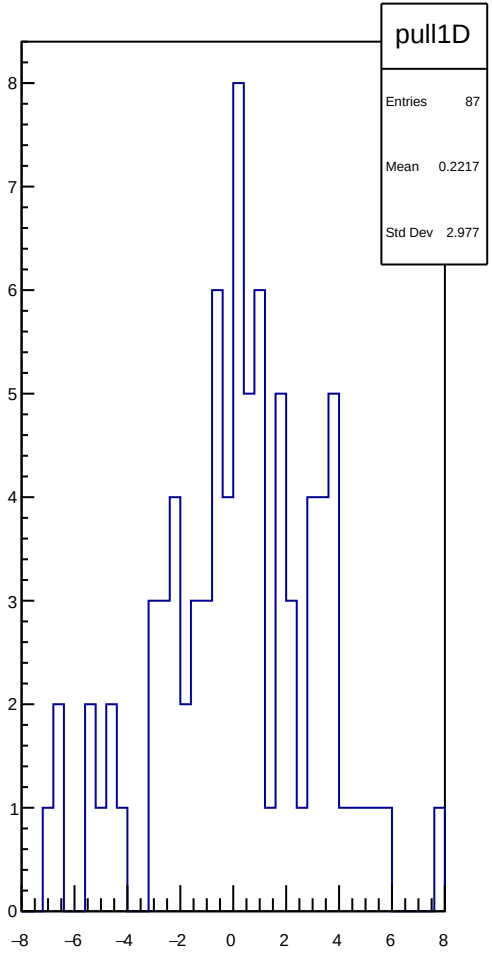

asym_bpm0i05WS_rms vs run
χ² / ndf 8.01e+04 / 86
p0 201.2 ± 0.1588
1000
800
600
400
200

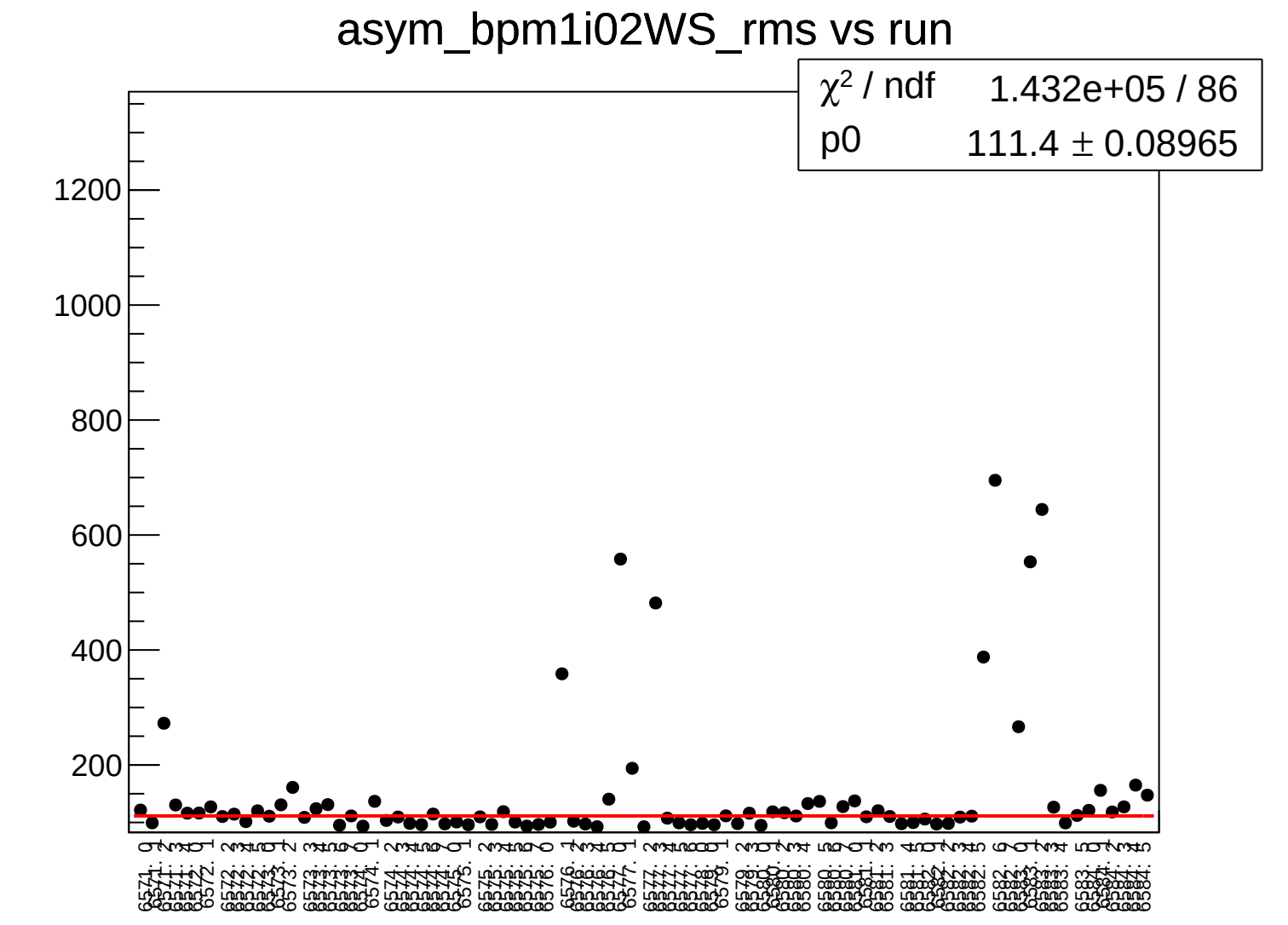

asym_bpm0i07WS_mean vs run
χ² / ndf 91.96 / 86
p0 859.1 ± 243.2
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −84.54
Std Dev 136
3
2
1
0
−1
−2
−3

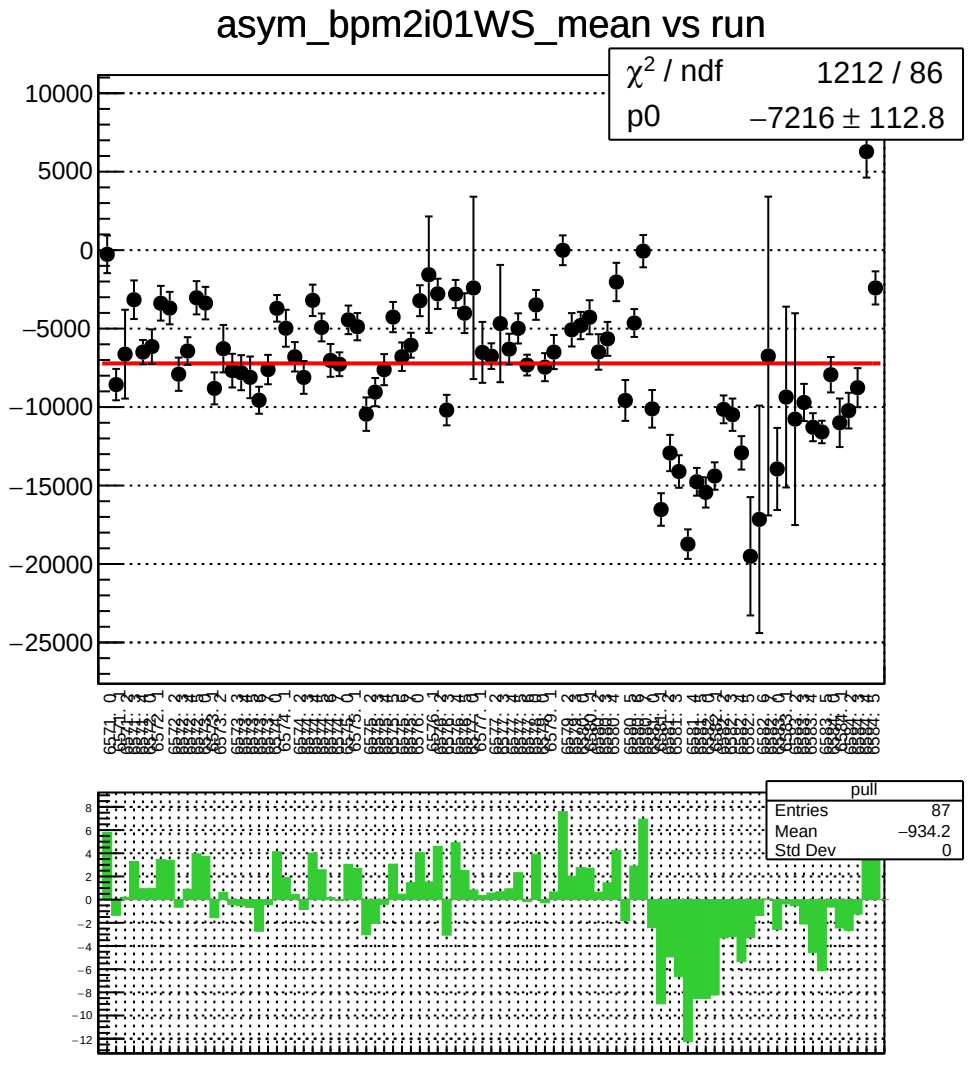

pull1D
Entries 87
Mean 0.004314
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

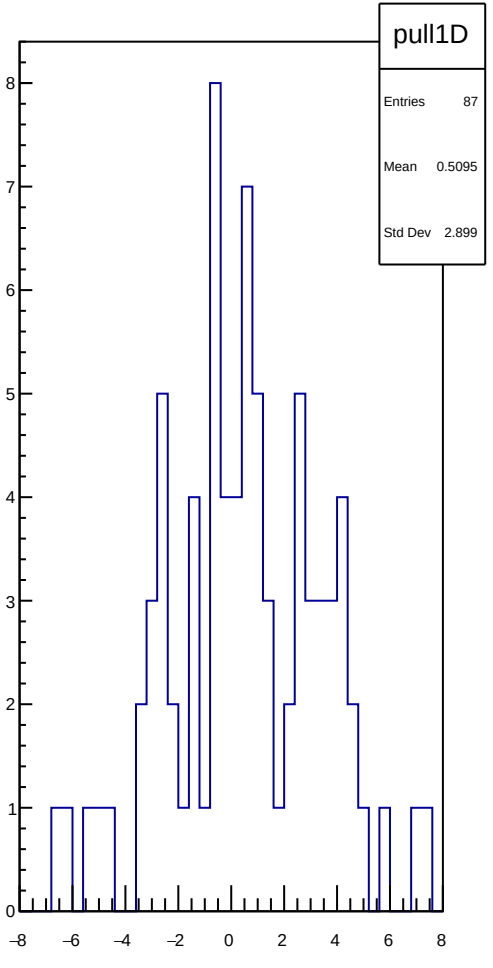

asym_bpm0i07WS_rms vs run
χ^2 / ndf 7.186e+04 / 86
p0 218.6 ± 0.172
1000
800
600
400
200

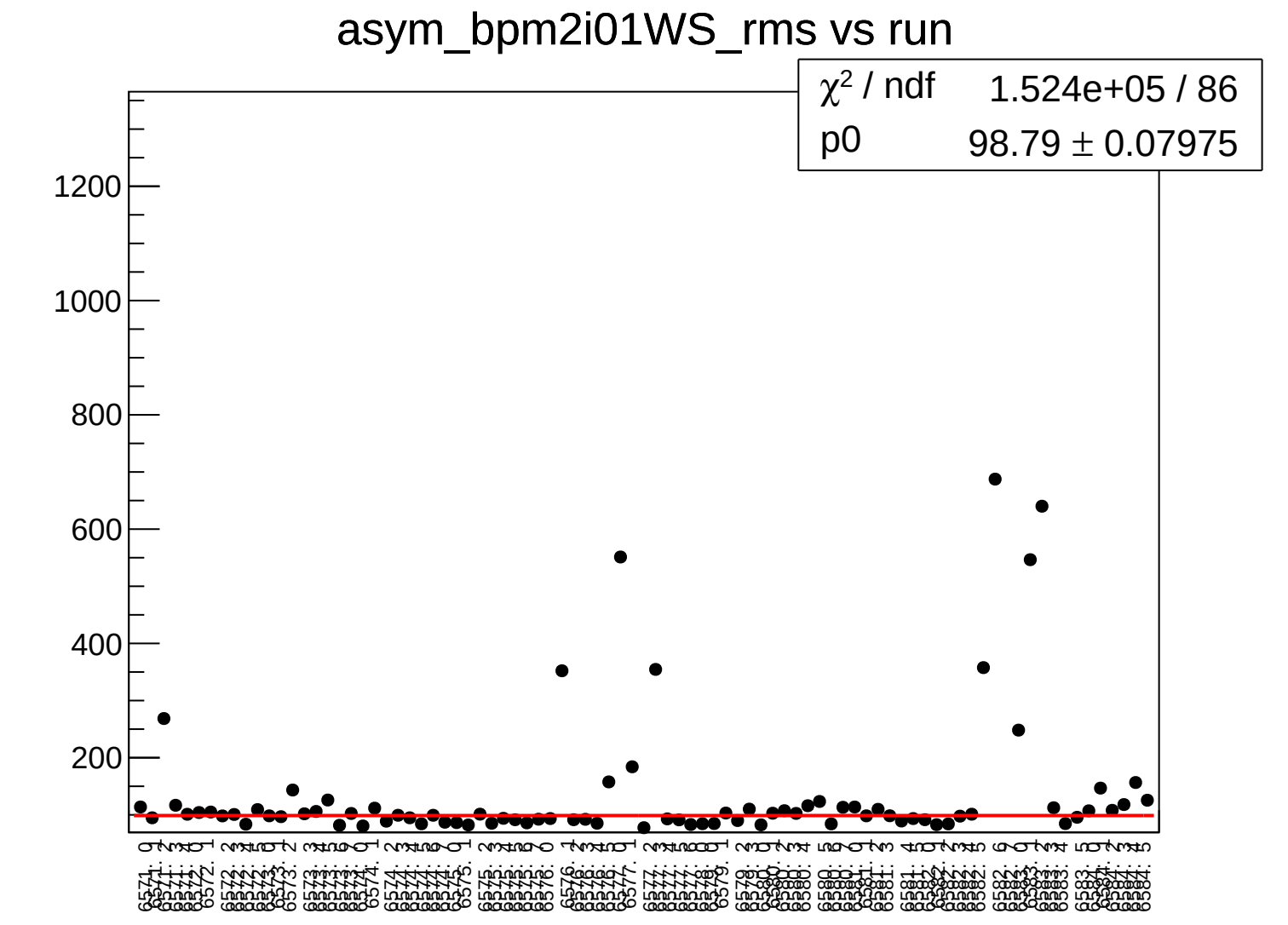

asym_bpm1i02WS_mean vs run
χ² / ndf 940.4 / 86
p0 −7303 ± 126.8
pull
Entries 87
Mean 2.352e+04
Std Dev 0

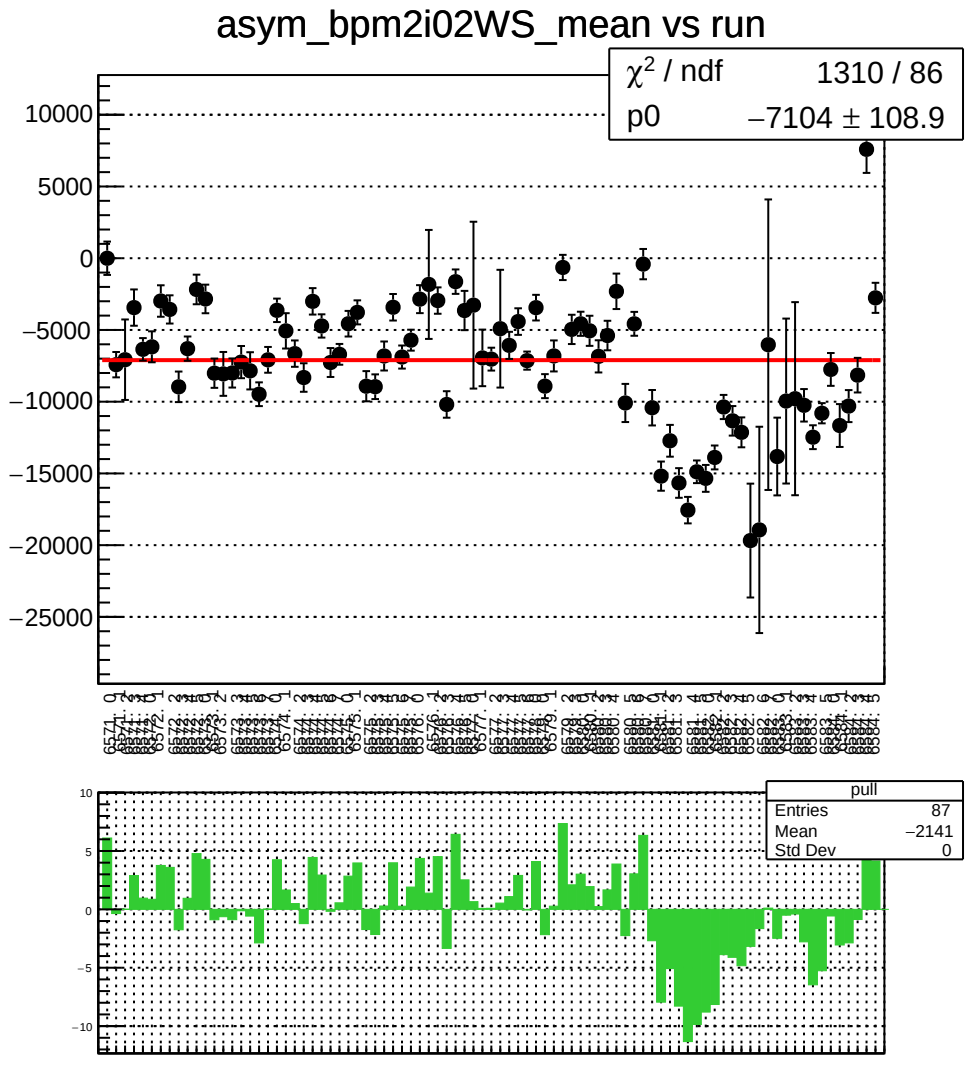

pull1D
Entries 87
Mean 0.2217
Std Dev 2.977

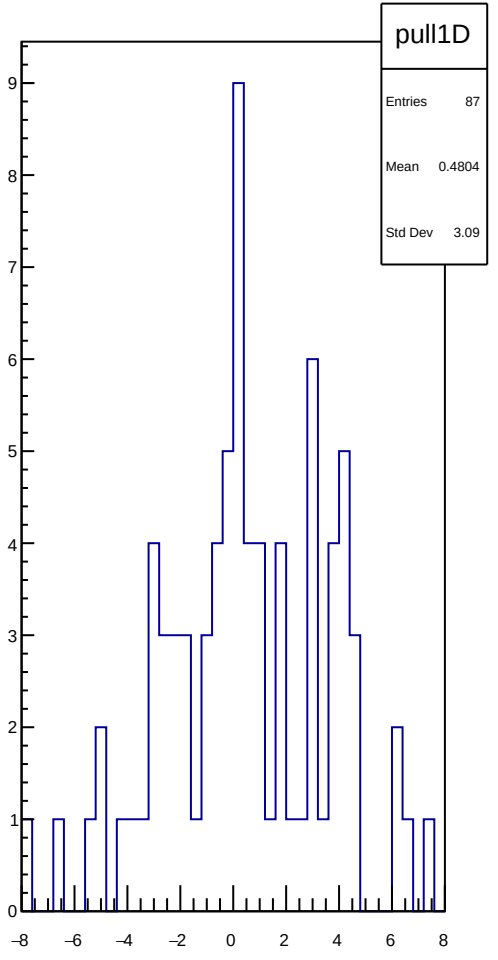

asym_bpm1i02WS_rms vs run
χ² / ndf 1.432e+05 / 86
p0 111.4 ± 0.08965
1200
1000
800
600
400
200

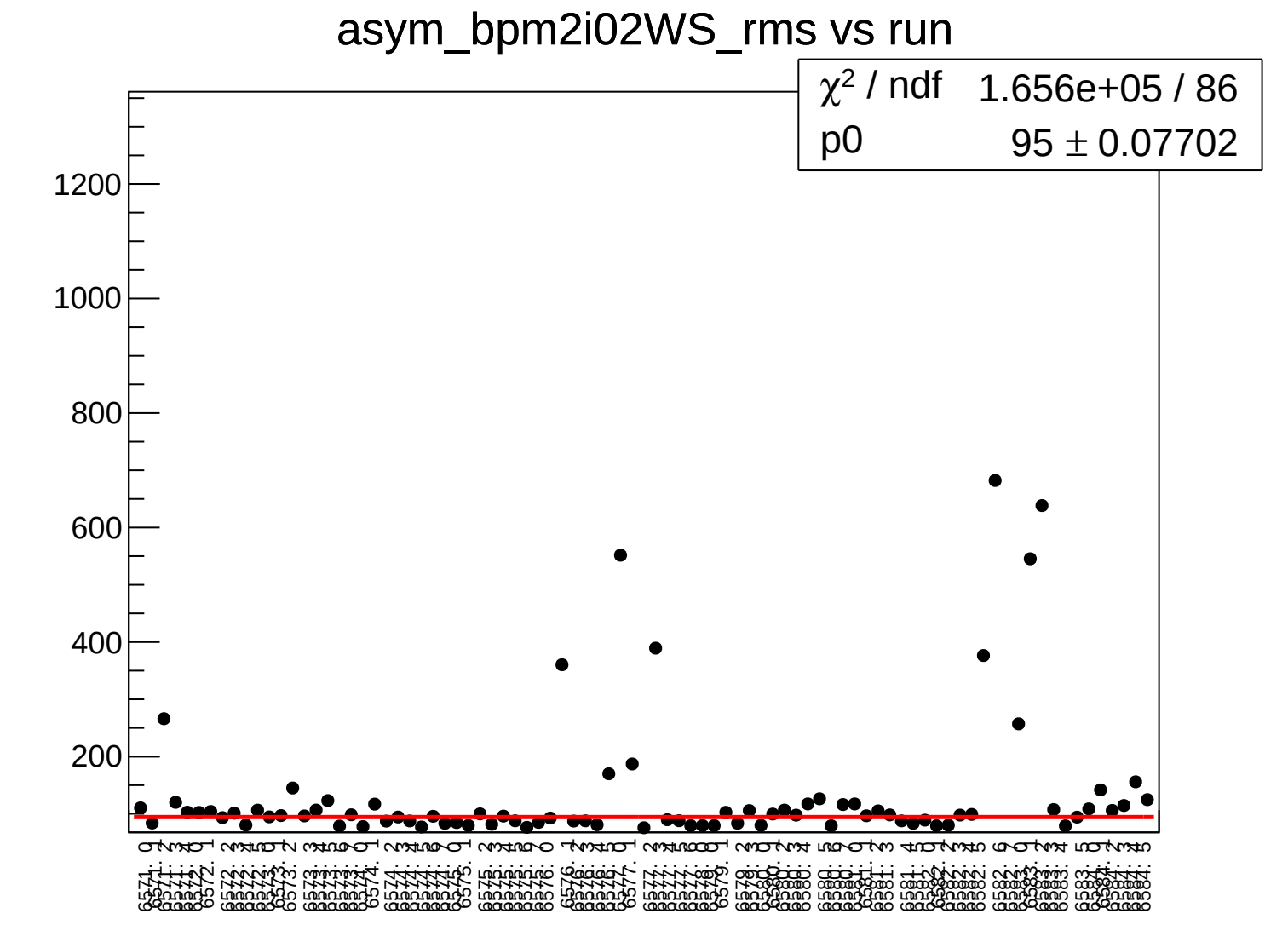

asym_bpm2i01WS_mean vs run
χ² / ndf 1212 / 86
p0 −7216 ± 112.8
pull
Entries 87
Mean −934.2
Std Dev 0

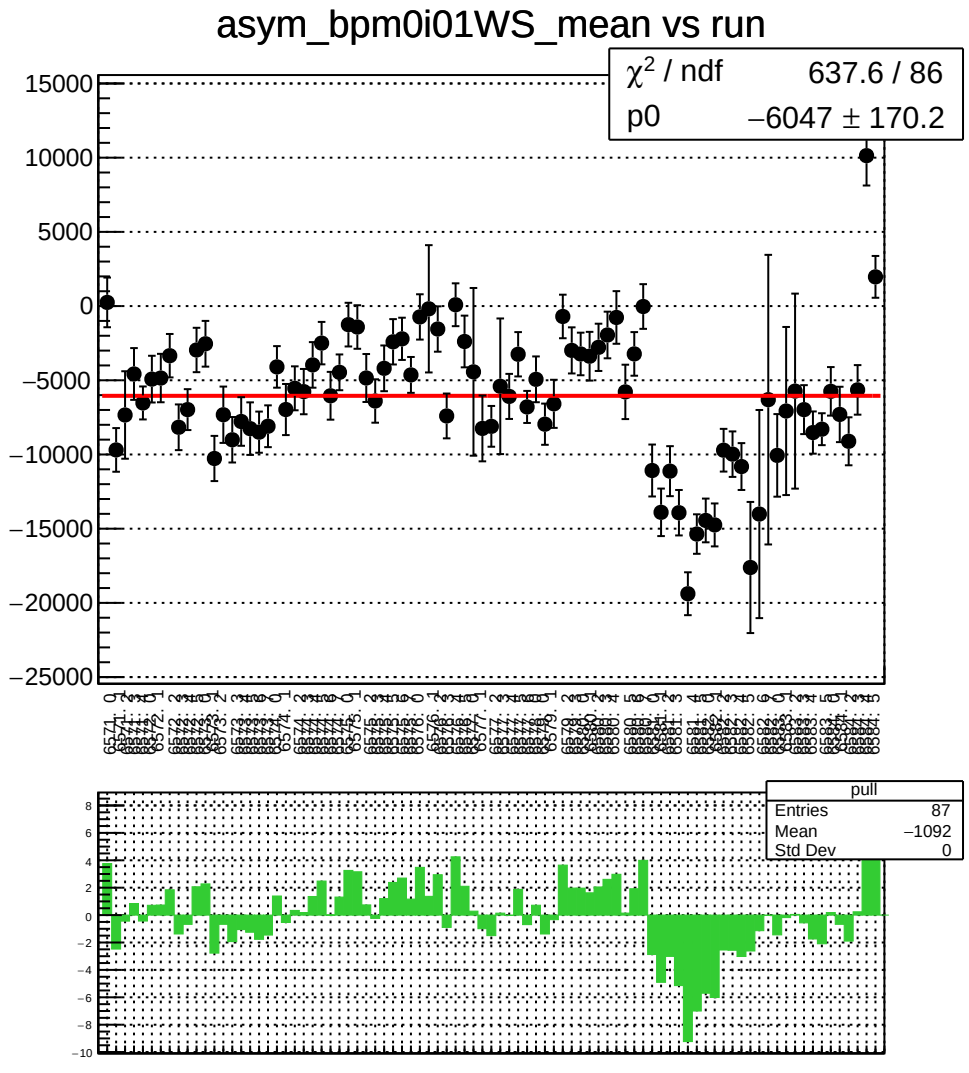

pull1D
Entries 87
Mean 0.5095
Std Dev 2.899

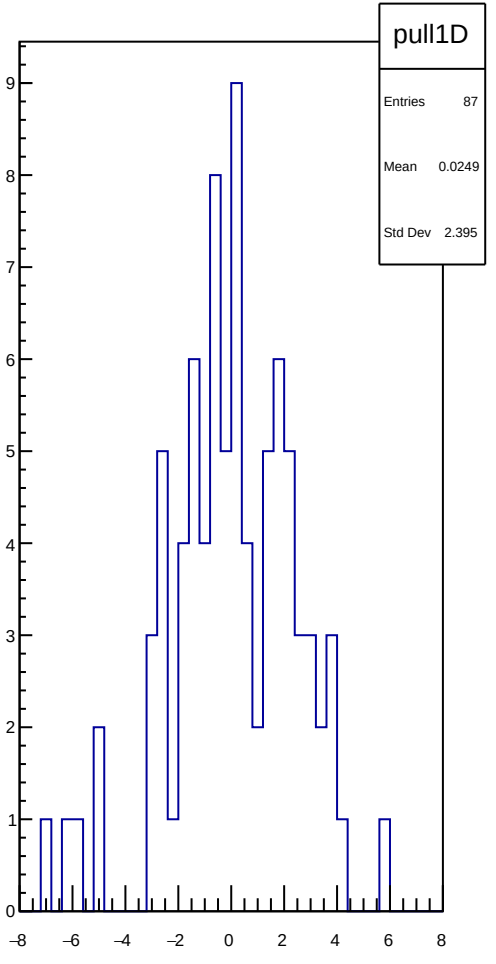

asym_bpm2i01WS_rms vs run
χ² / ndf 1.524e+05 / 86
p0 98.79 ± 0.07975
1200
1000
800
600
400
200

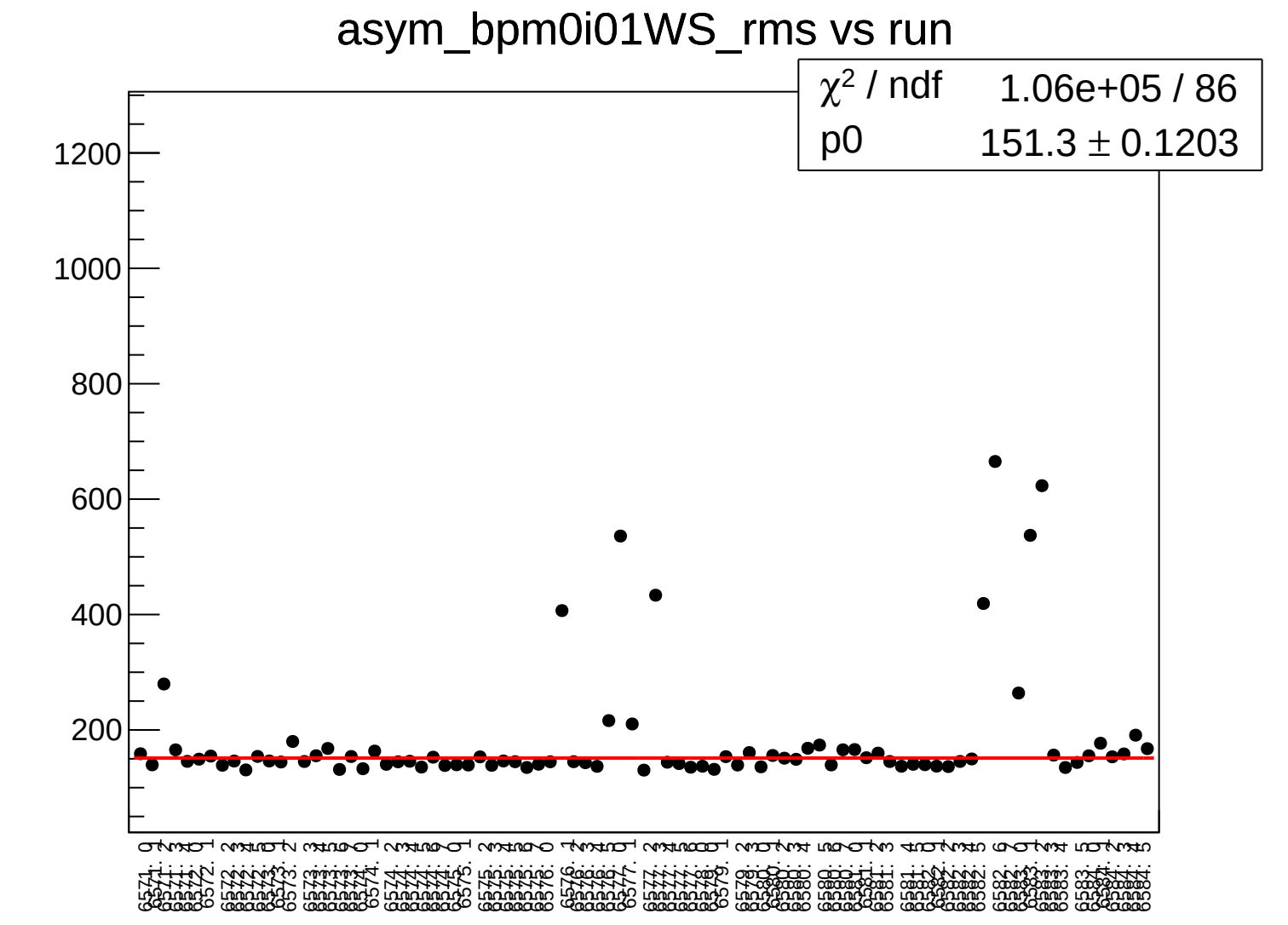

asym_bpm2i02WS_mean vs run
χ² / ndf 1310 / 86
p0 −7104 ± 108.9
pull
Entries 87
Mean −2141
Std Dev 0

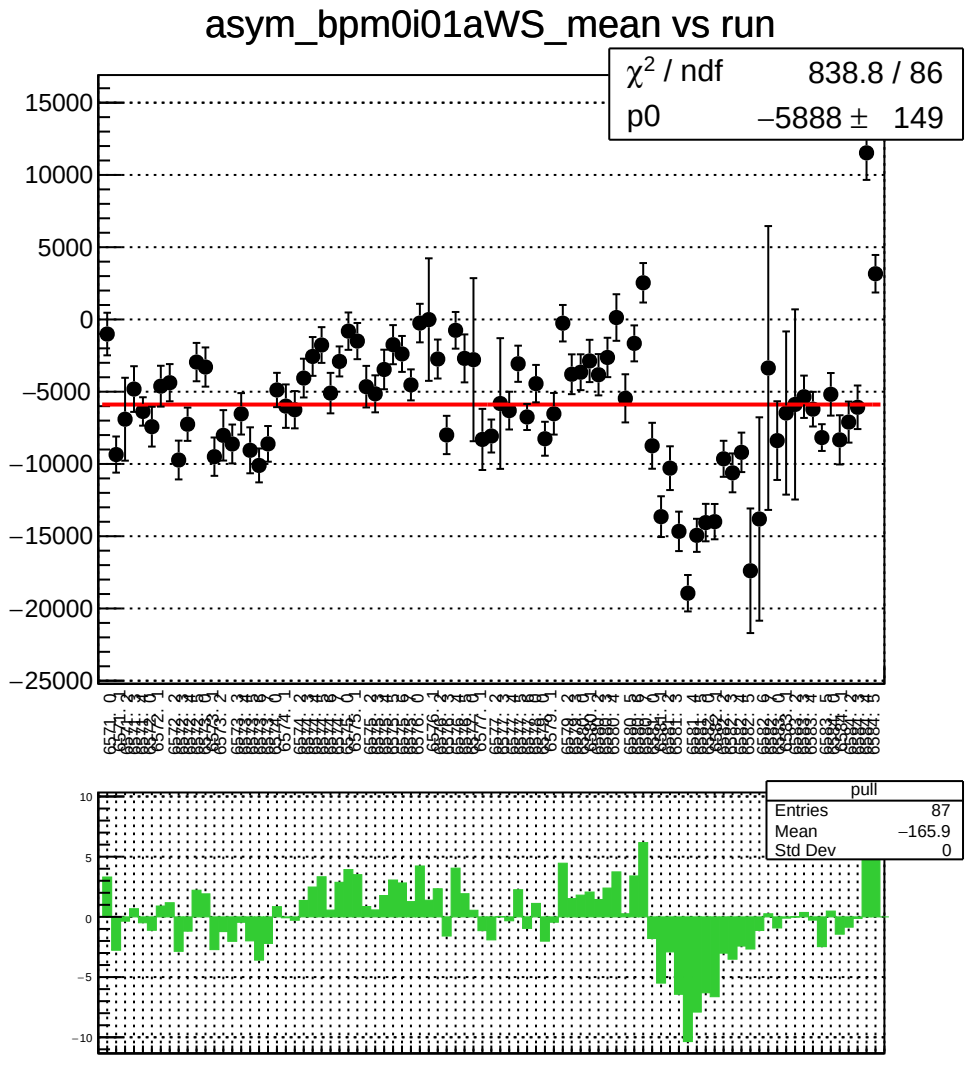

pull1D
Entries 87
Mean 0.4804
Std Dev 3.09

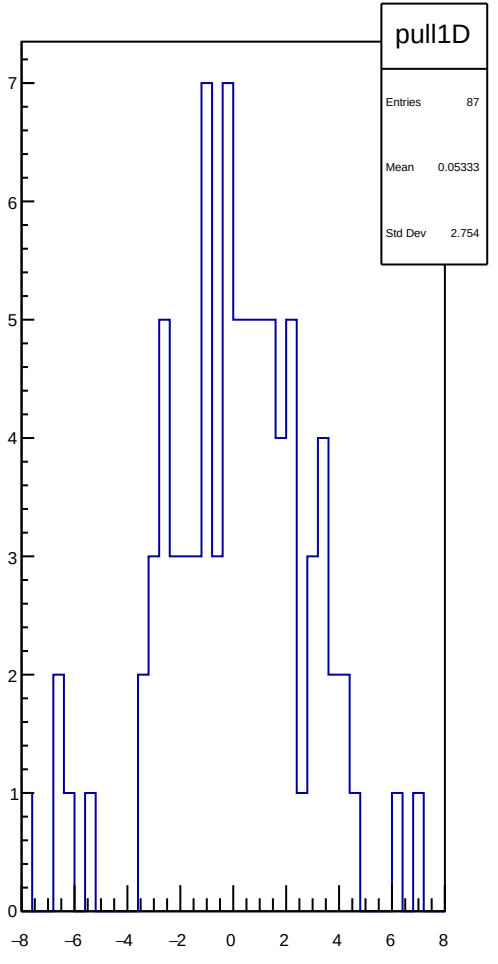

asym_bpm2i02WS_rms vs run
χ² / ndf 1.656e+05 / 86
p0 95 ± 0.07702
1200
1000
800
600
400
200

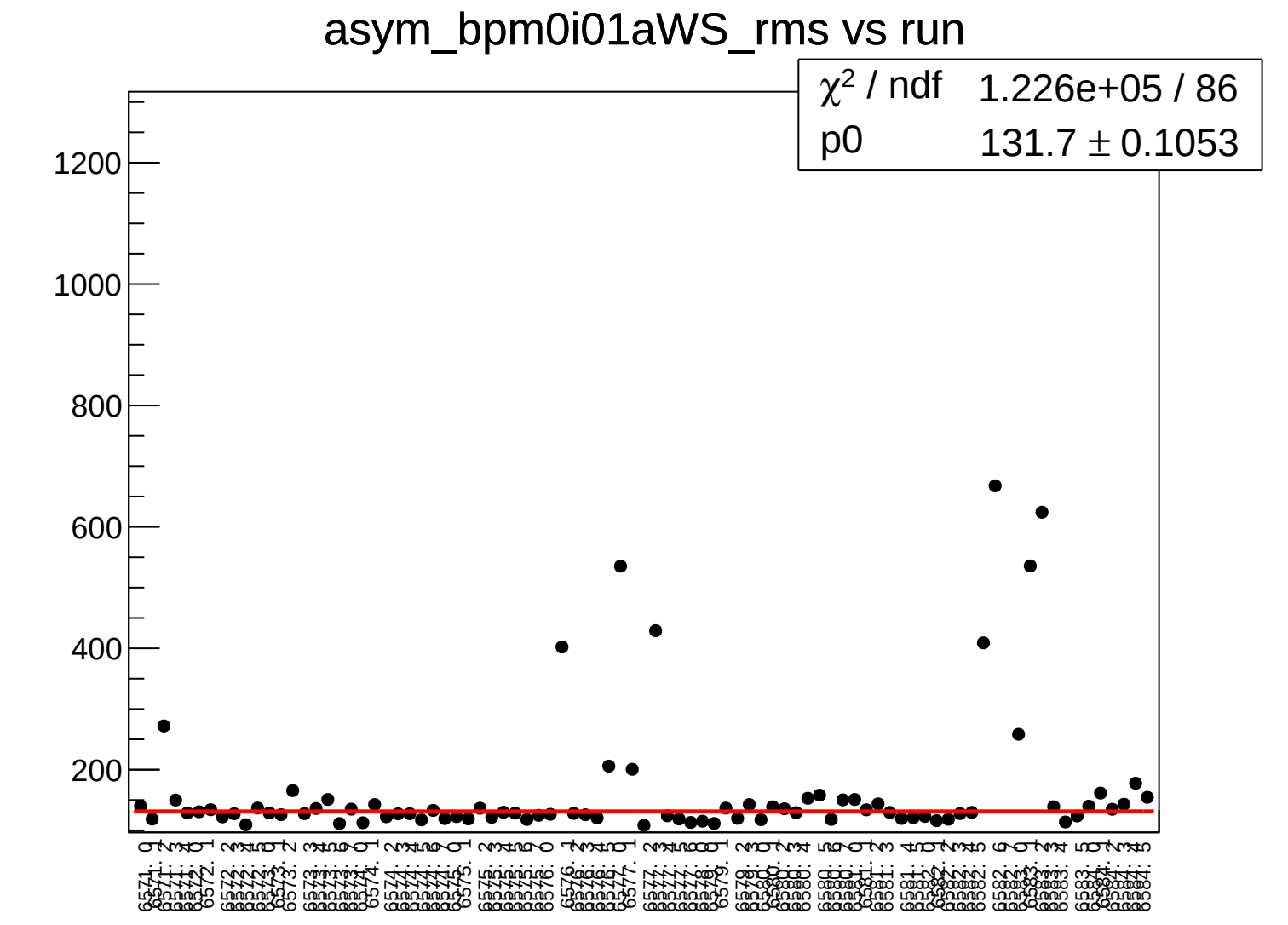

asym_bpm0i01WS_mean vs run
χ² / ndf 637.6 / 86
p0 −6047 ± 170.2
pull
Entries 87
Mean −1092
Std Dev 0

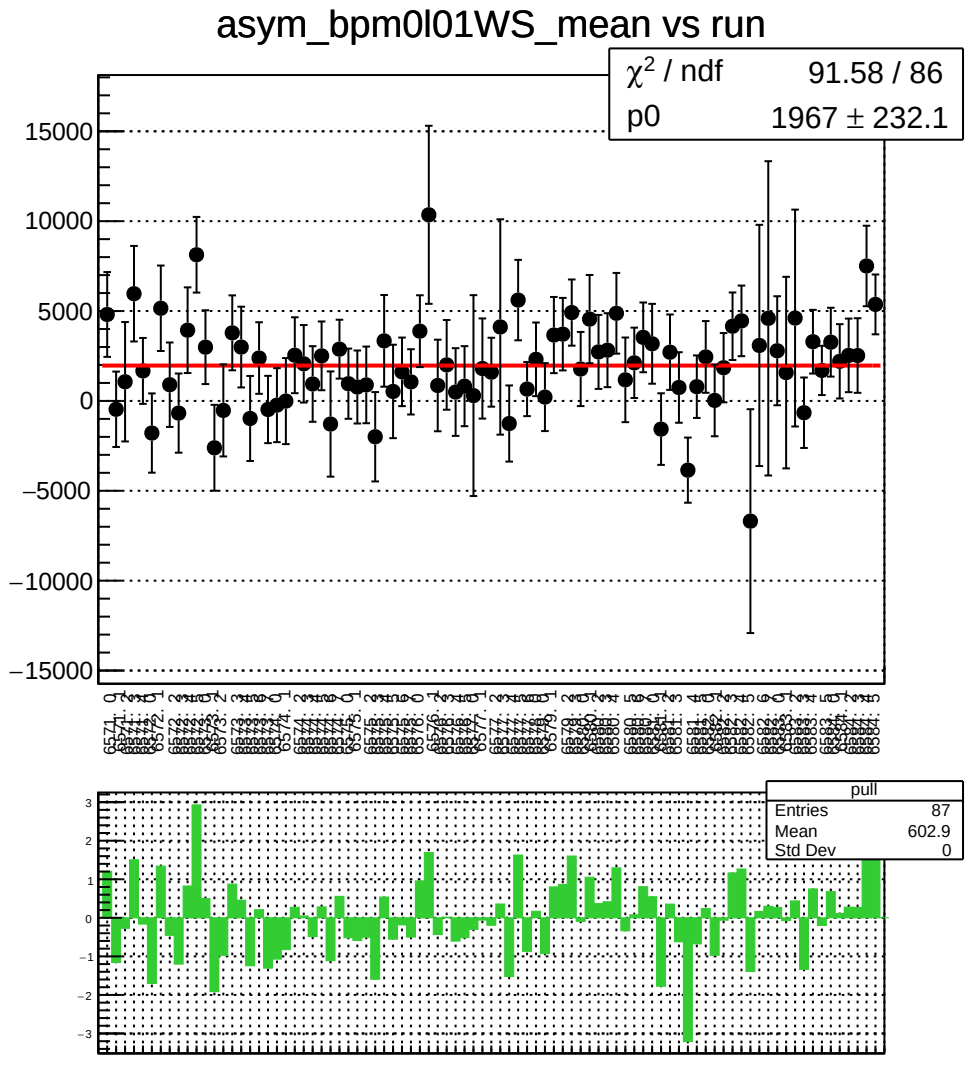

pull1D
Entries 87
Mean 0.0249
Std Dev 2.395

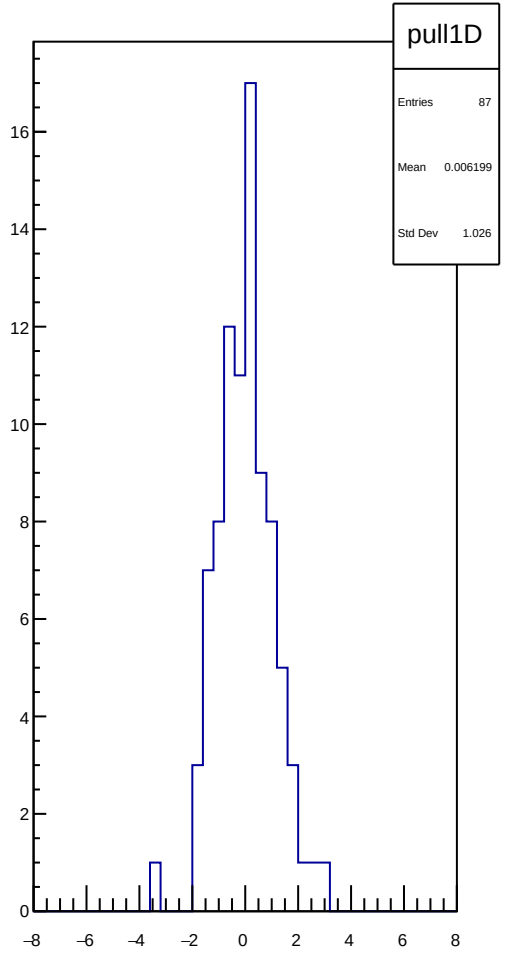

asym_bpm0i01WS_rms vs run
χ^2 / ndf 1.06e+05 / 86
p0 151.3 ± 0.1203
1200
1000
800
600
400
200

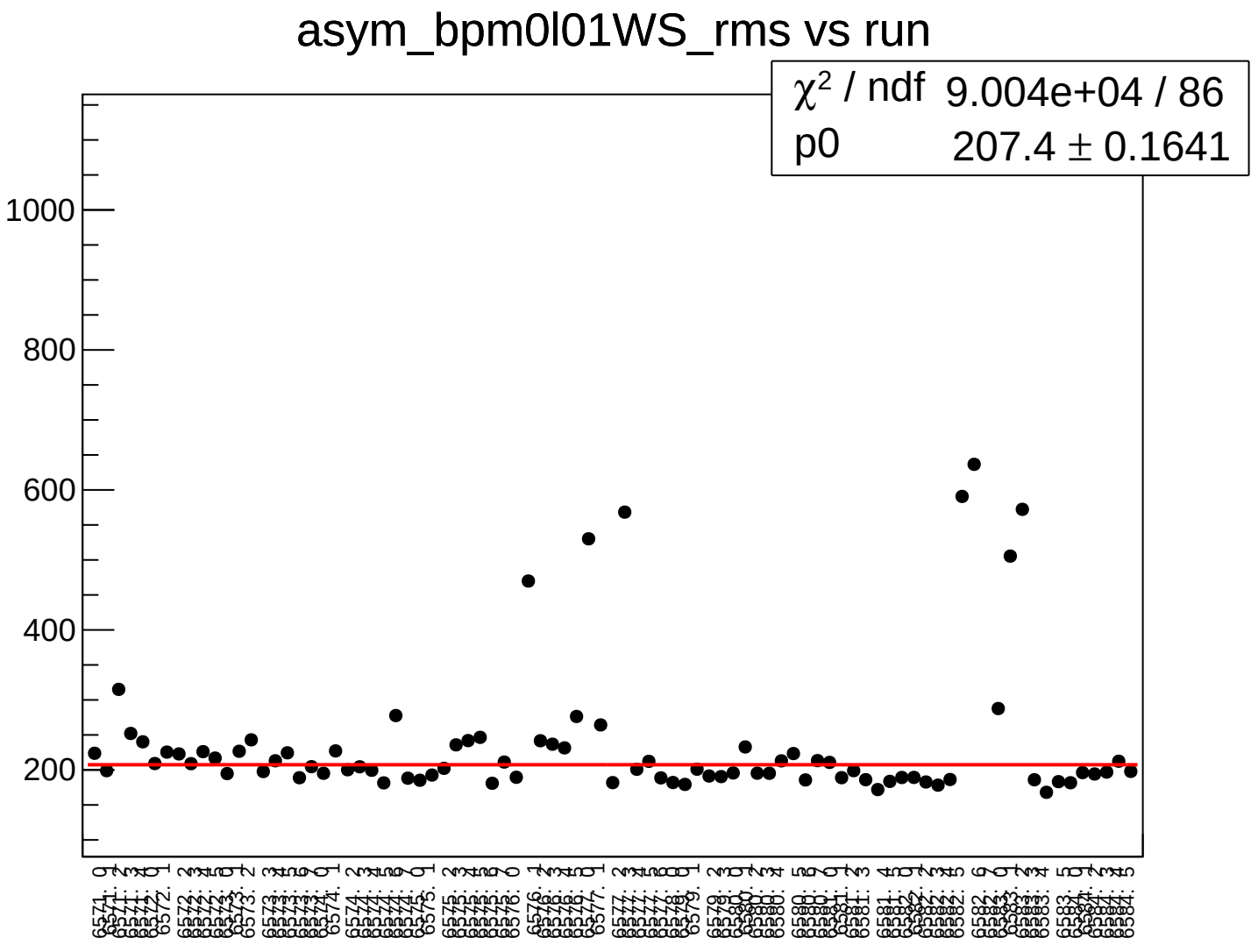

asym_bpm0i01aWS_mean vs run
χ² / ndf 838.8 / 86
p0 −5888 ± 149
pull
Entries 87
Mean −165.9
Std Dev 0

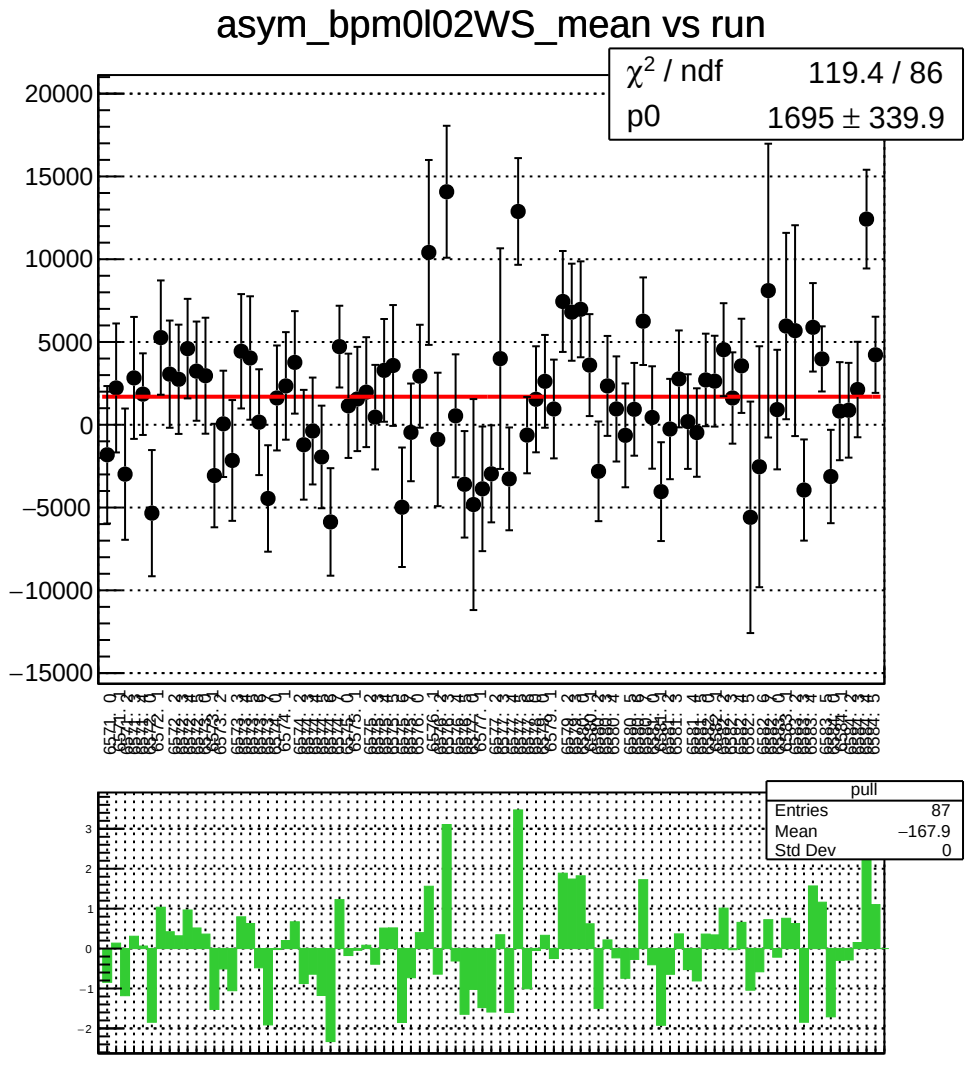

pull1D
Entries 87
Mean 0.05333
Std Dev 2.754

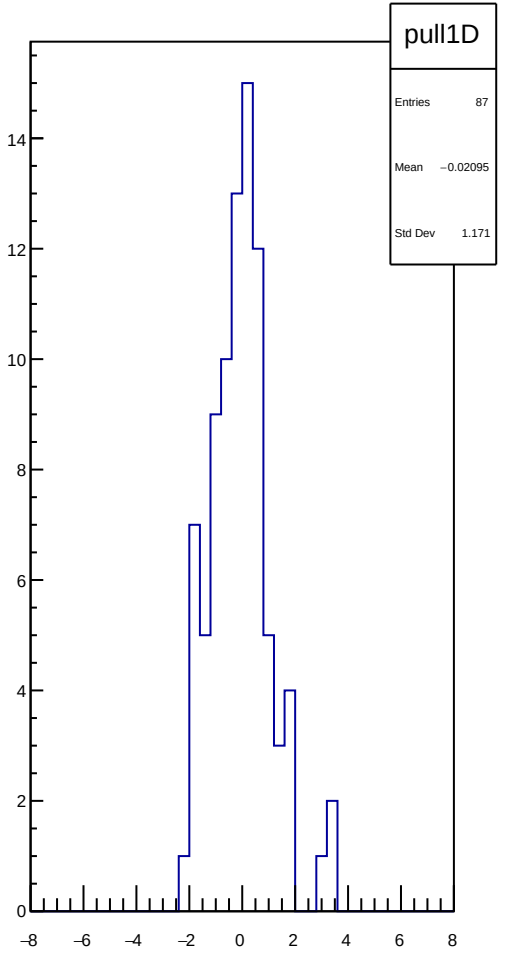

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 1.226e+05 / 86
p0 131.7 ± 0.1053
1200
1000
800
600
400
200

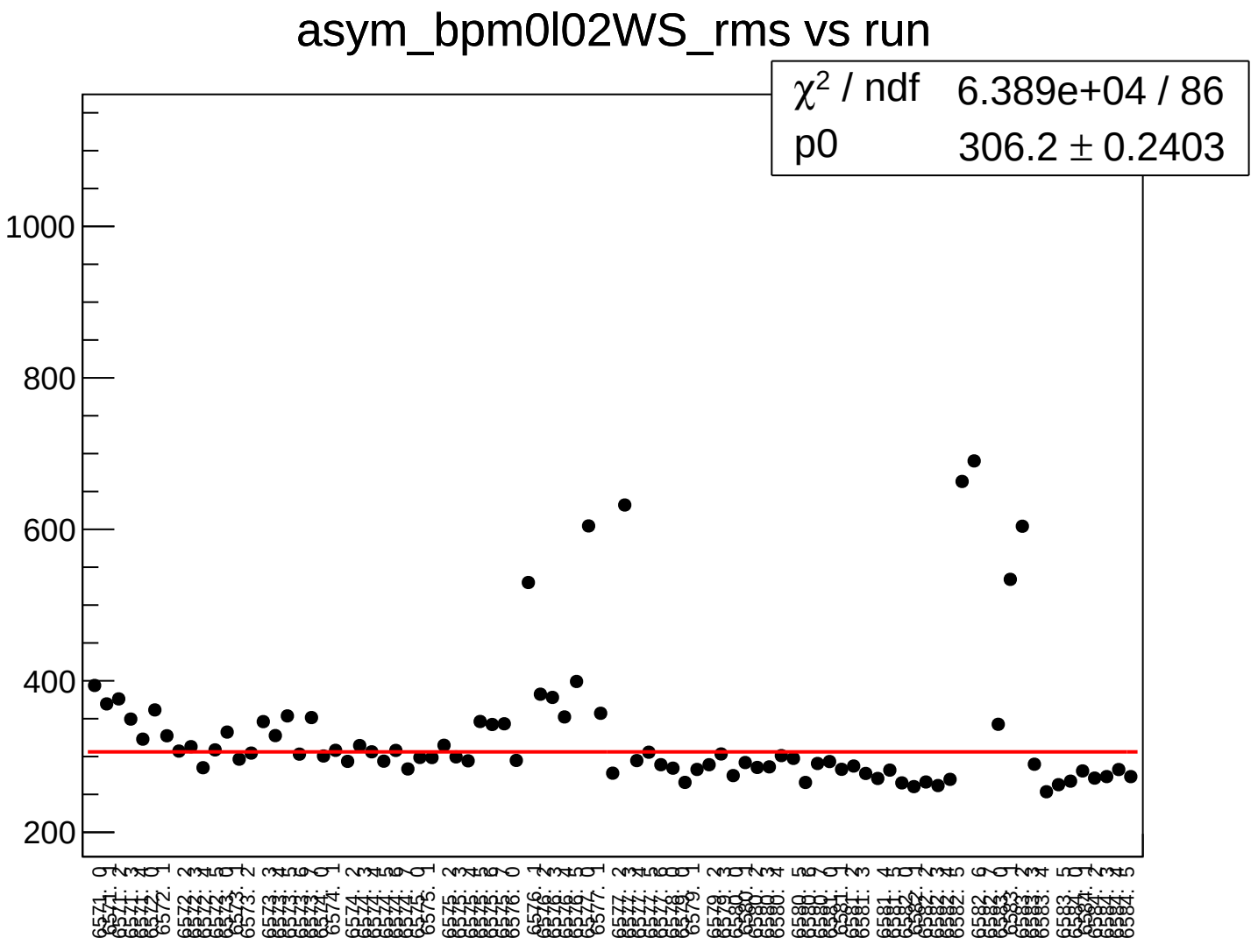

asym_bpm0l01WS_mean vs run
χ² / ndf 91.58 / 86
p0 1967 ± 232.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 602.9
Std Dev 0
3
2
1
0
−1
−2
−3

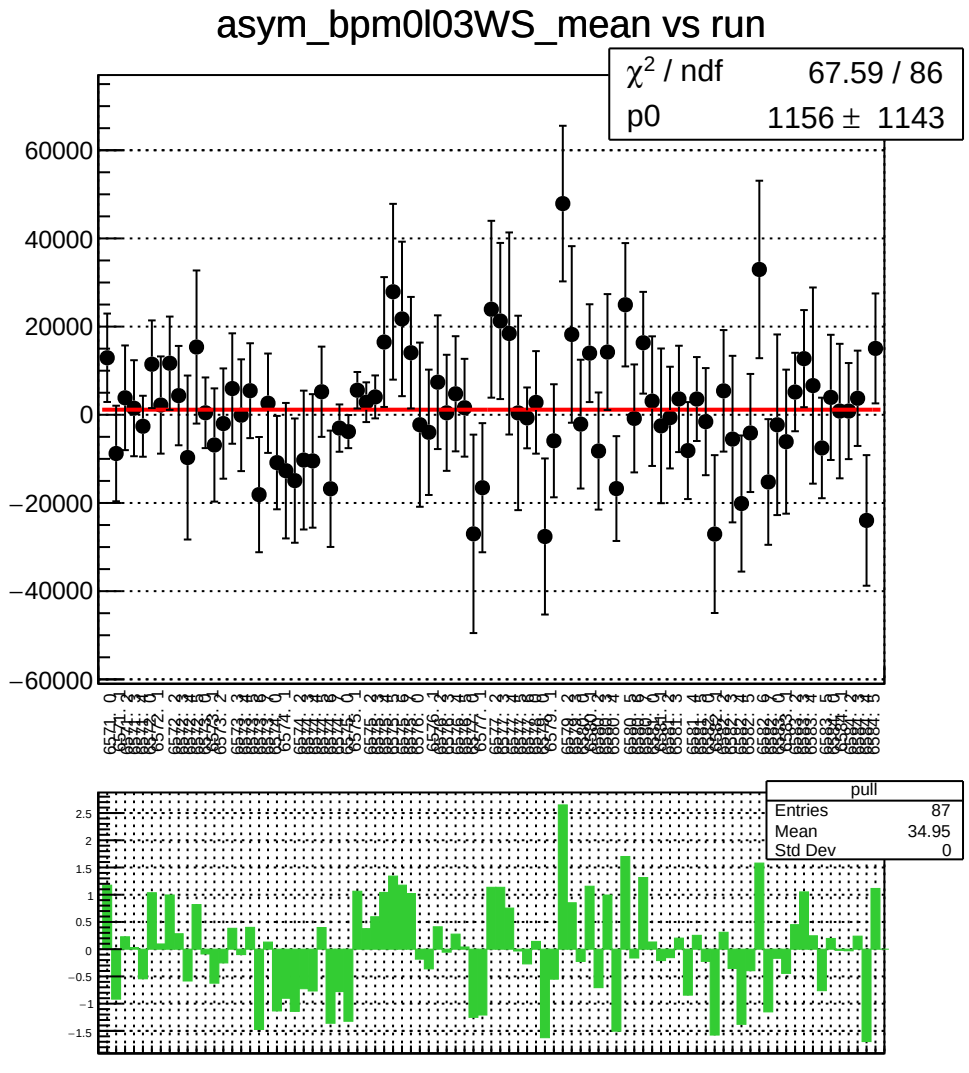

pull1D
Entries 87
Mean 0.006199
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

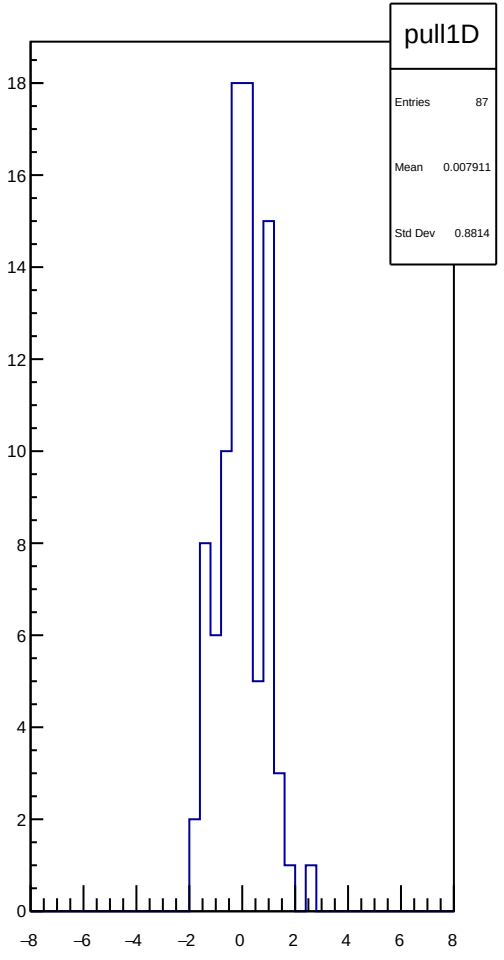

asym_bpm0l01WS_rms vs run
χ² / ndf 9.004e+04 / 86
p0 207.4 ± 0.1641
1000
800
600
400
200

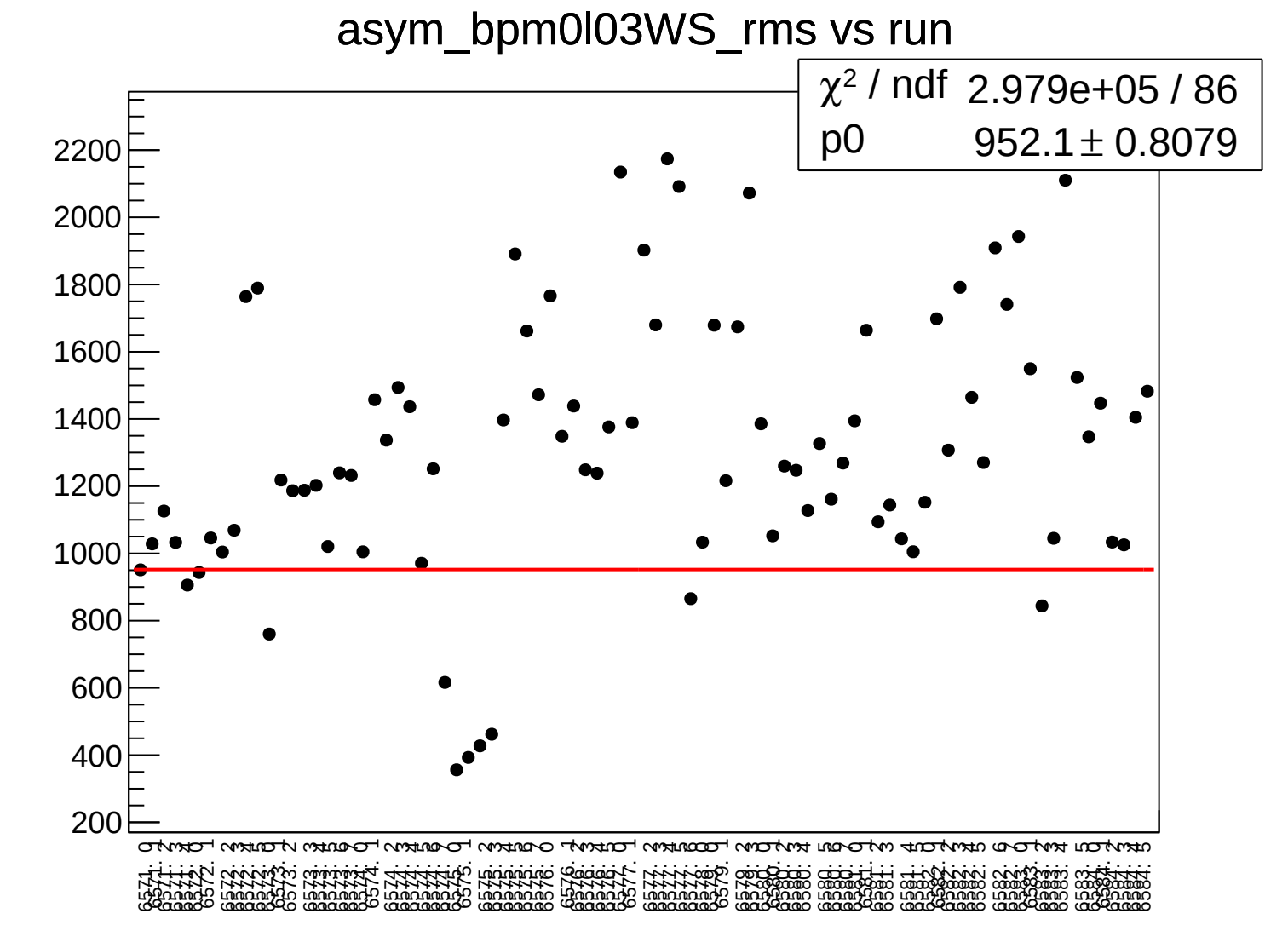

asym_bpm0l02WS_mean vs run
χ² / ndf 119.4 / 86
p0 1695 ± 339.9
pull
Entries 87
Mean −167.9
Std Dev 0

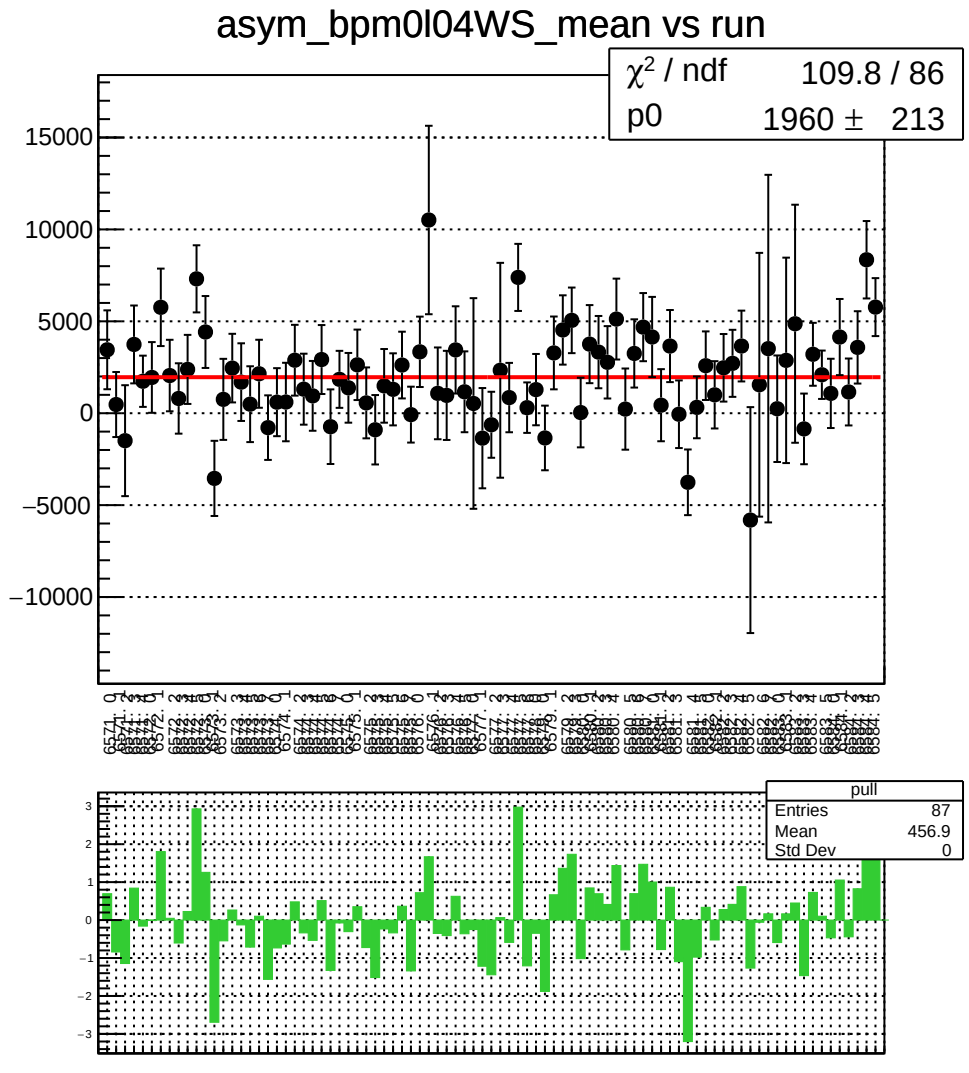

pull1D
Entries 87
Mean −0.02095
Std Dev 1.171

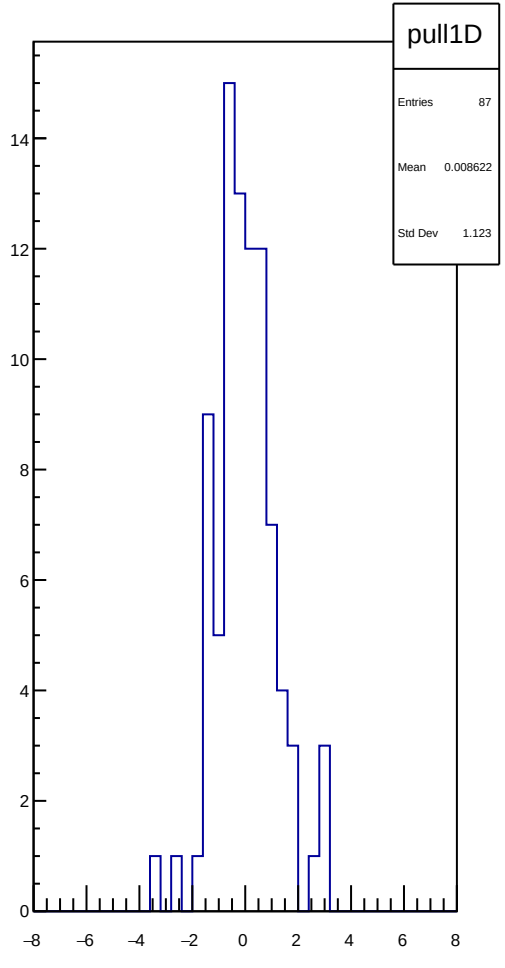

asym_bpm0l02WS_rms vs run
χ² / ndf 6.389e+04 / 86
p0 306.2 ± 0.2403
1000
800
600
400
200

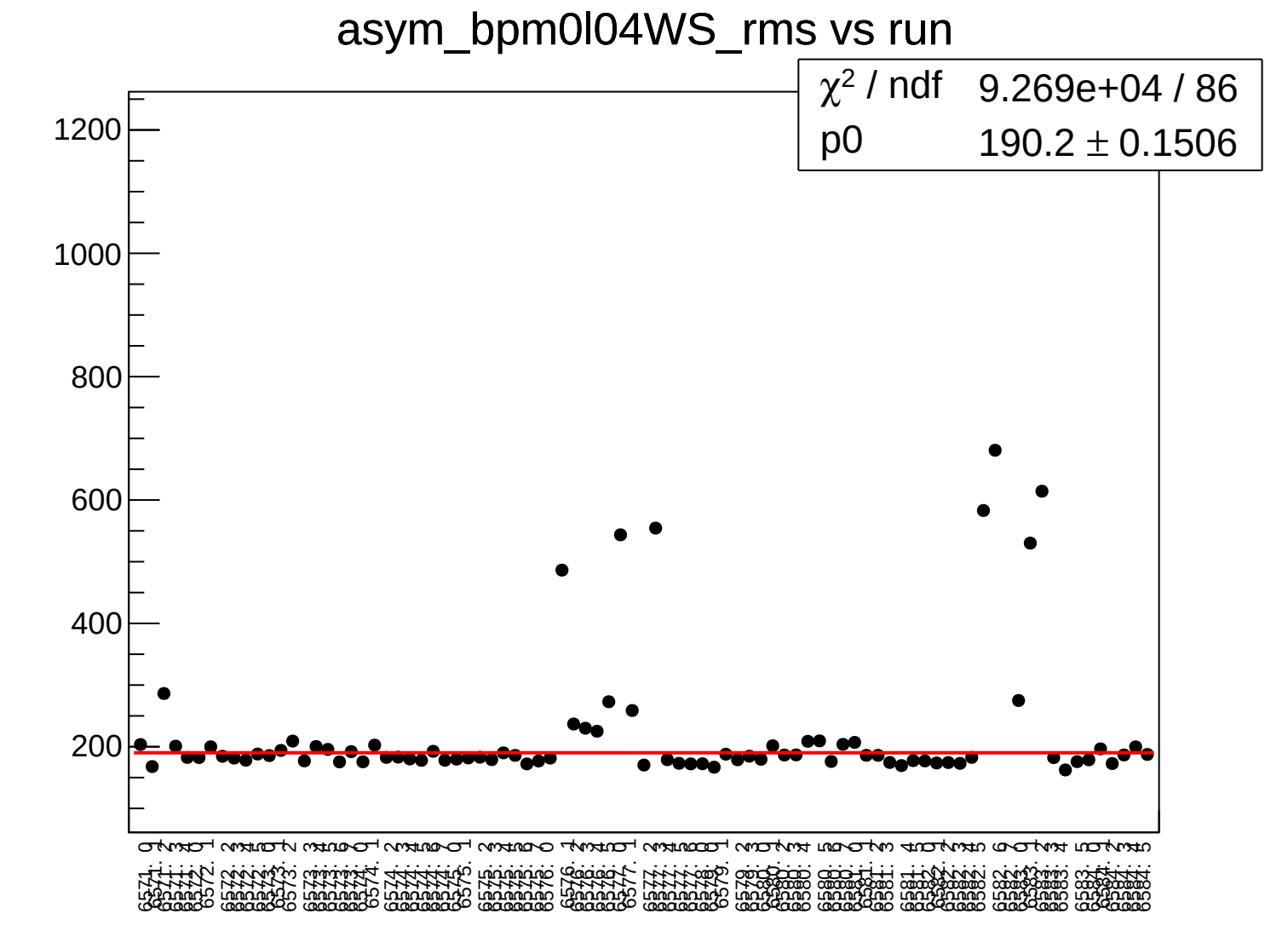

asym_bpm0l03WS_mean vs run
χ² / ndf 67.59 / 86
p0 1156 ± 1143
pull
Entries 87
Mean 34.95
Std Dev 0

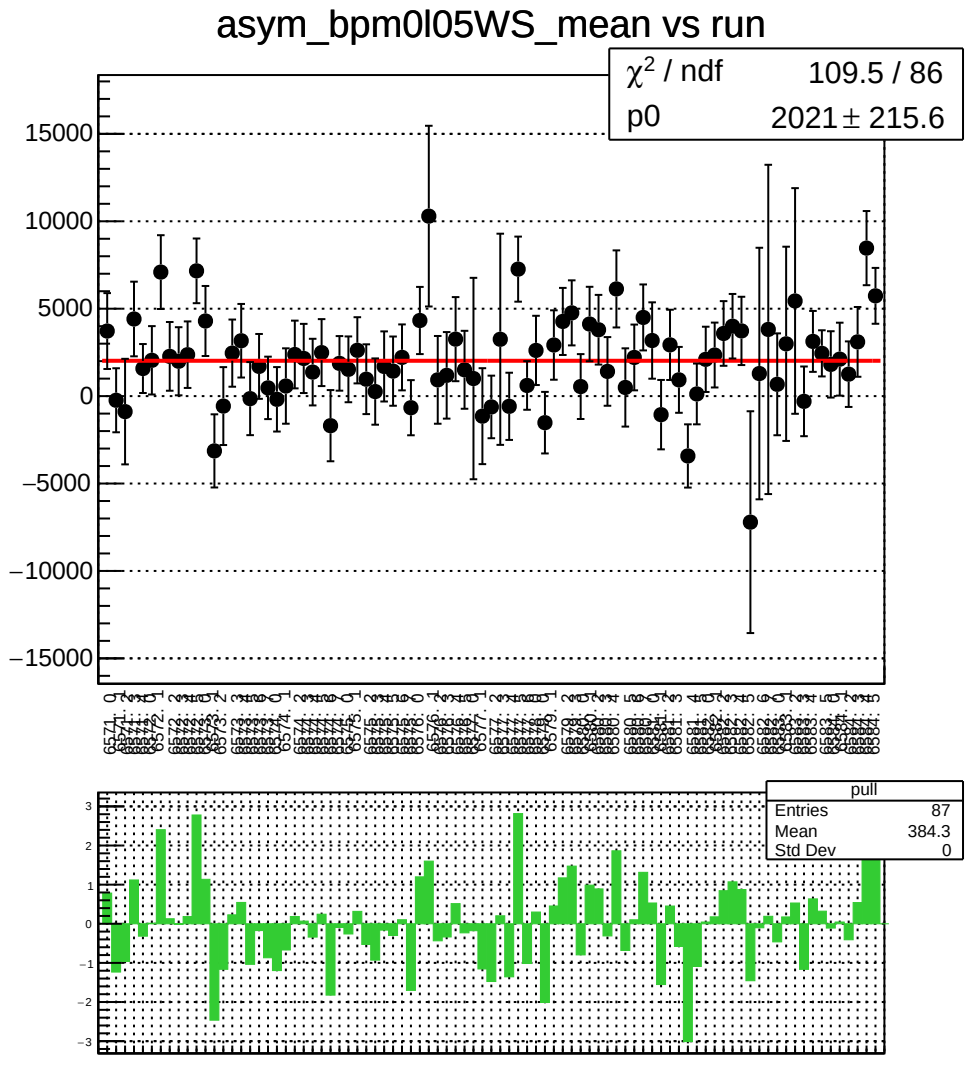

pull1D
Entries 87
Mean 0.007911
Std Dev 0.8814

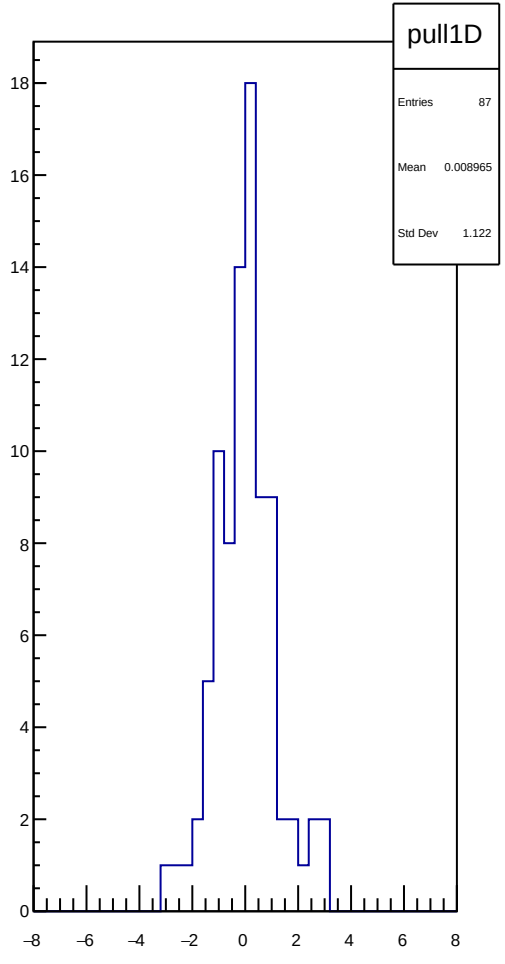

asym_bpm0l03WS_rms vs run
χ² / ndf 2.979e+05 / 86
p0 952.1 ± 0.8079
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

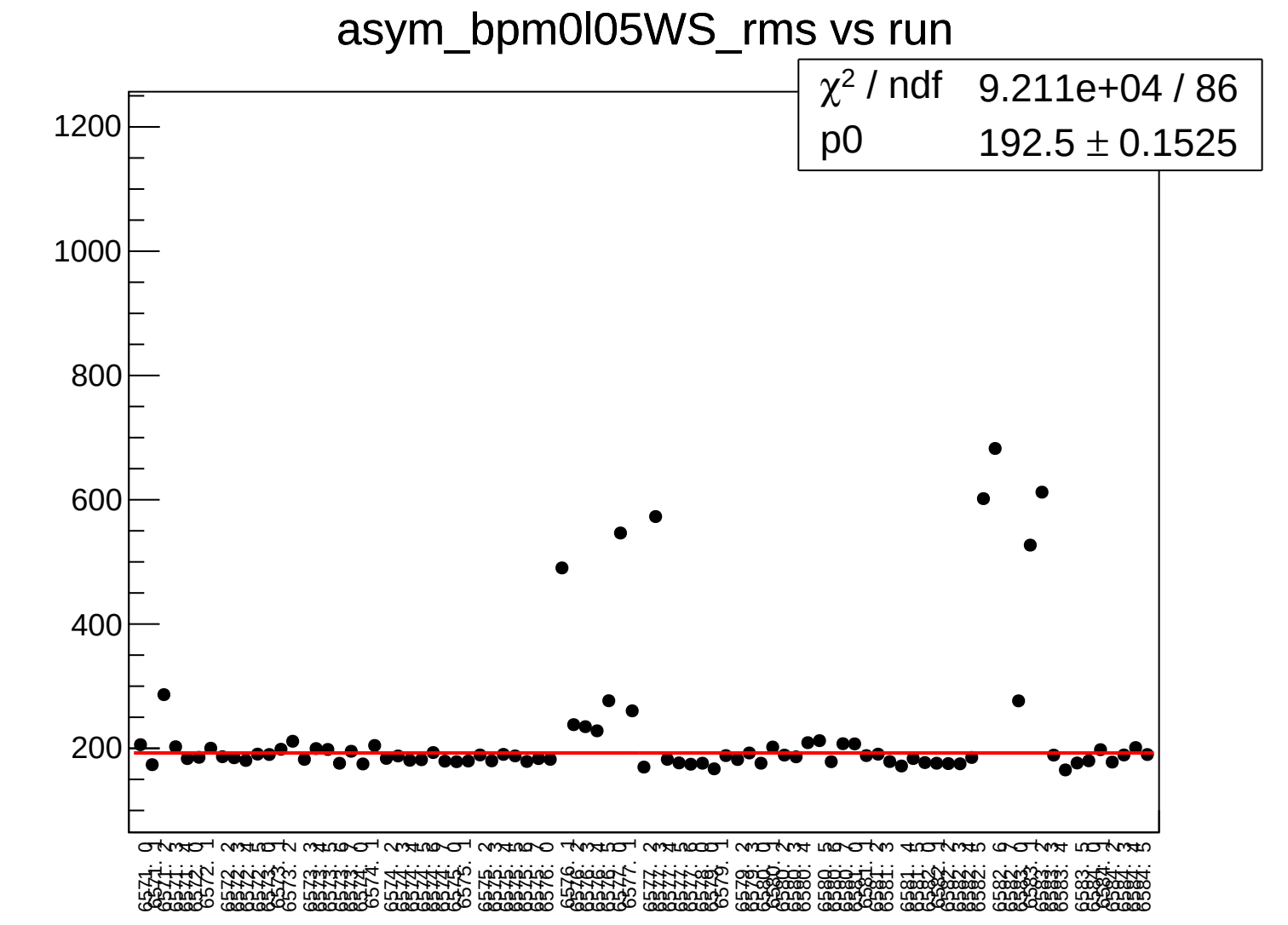

asym_bpm0l04WS_mean vs run
χ² / ndf 109.8 / 86
p0 1960 ± 213
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 456.9
Std Dev 0
3
2
1
0
−1
−2
−3

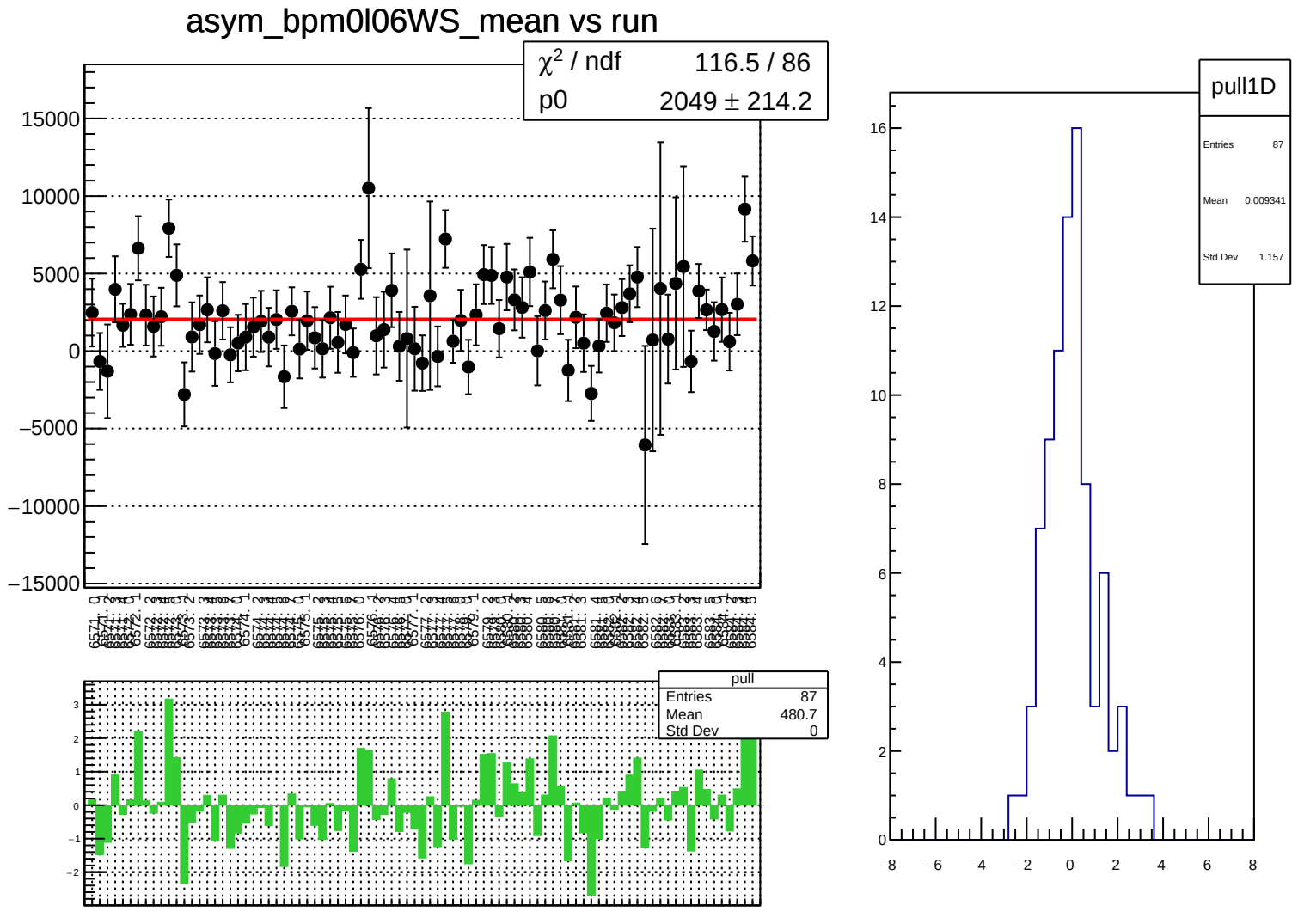

pull1D
Entries 87
Mean 0.008622
Std Dev 1.123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

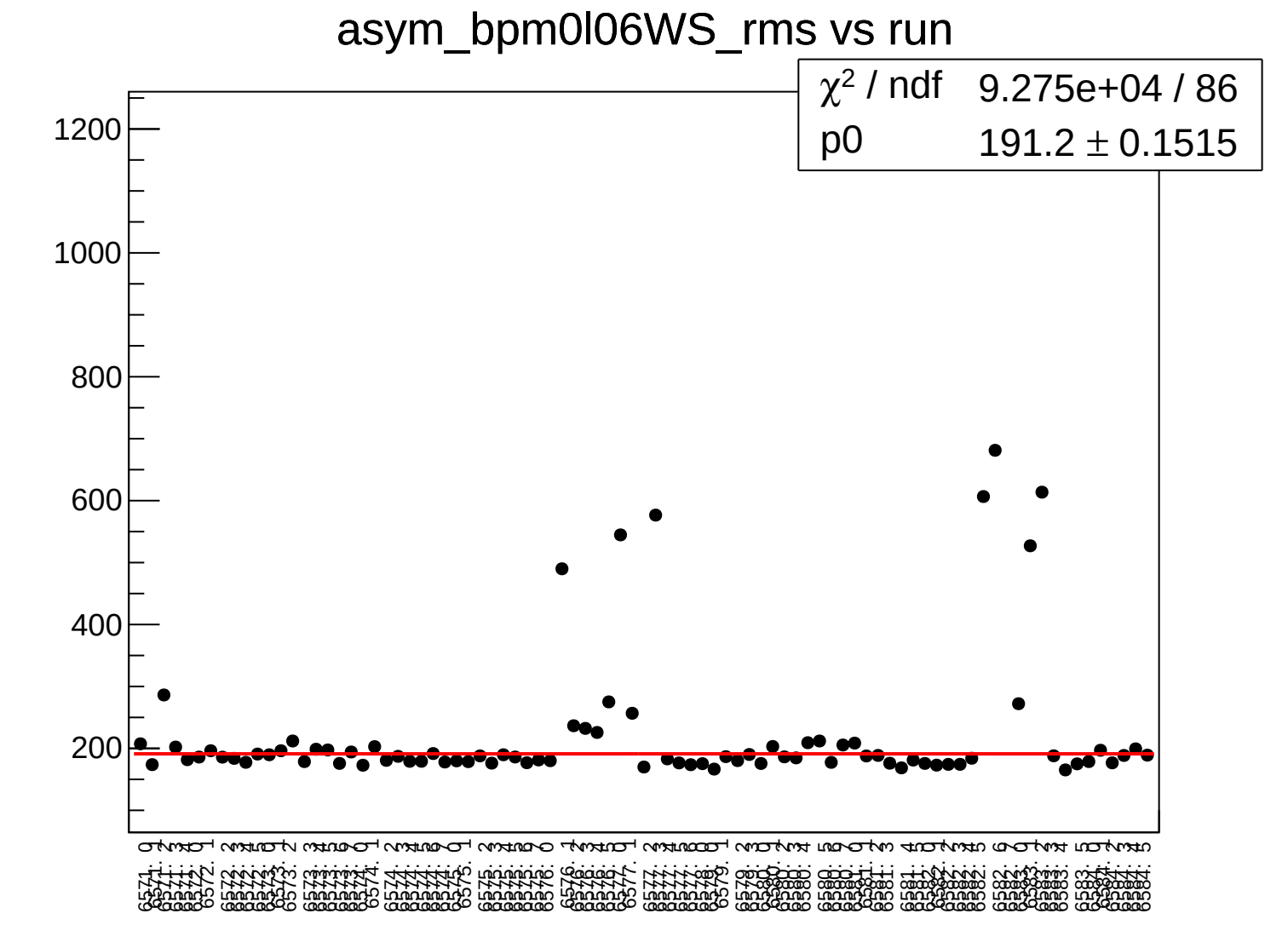

asym_bpm0l04WS_rms vs run
χ^2 / ndf 9.269e+04 / 86
p0 190.2 ± 0.1506
1200
1000
800
600
400
200

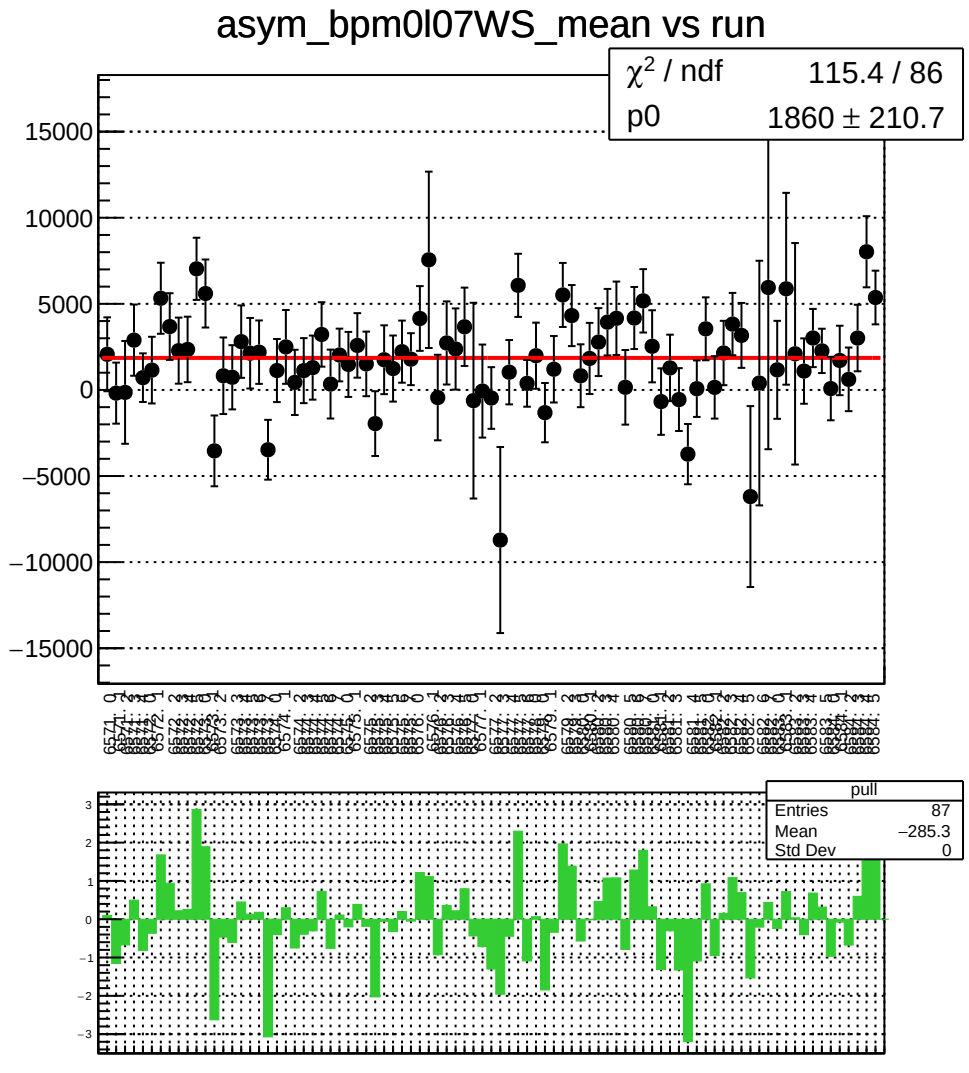

asym_bpm0l05WS_mean vs run
χ² / ndf 109.5 / 86
p0 2021 ± 215.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 384.3
Std Dev 0
3
2
1
0
−1
−2
−3

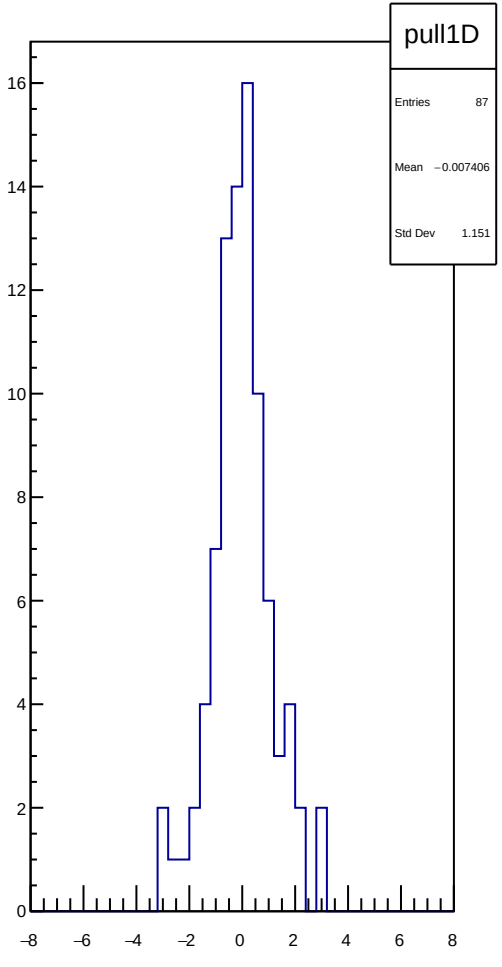

pull1D
Entries 87
Mean 0.008965
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

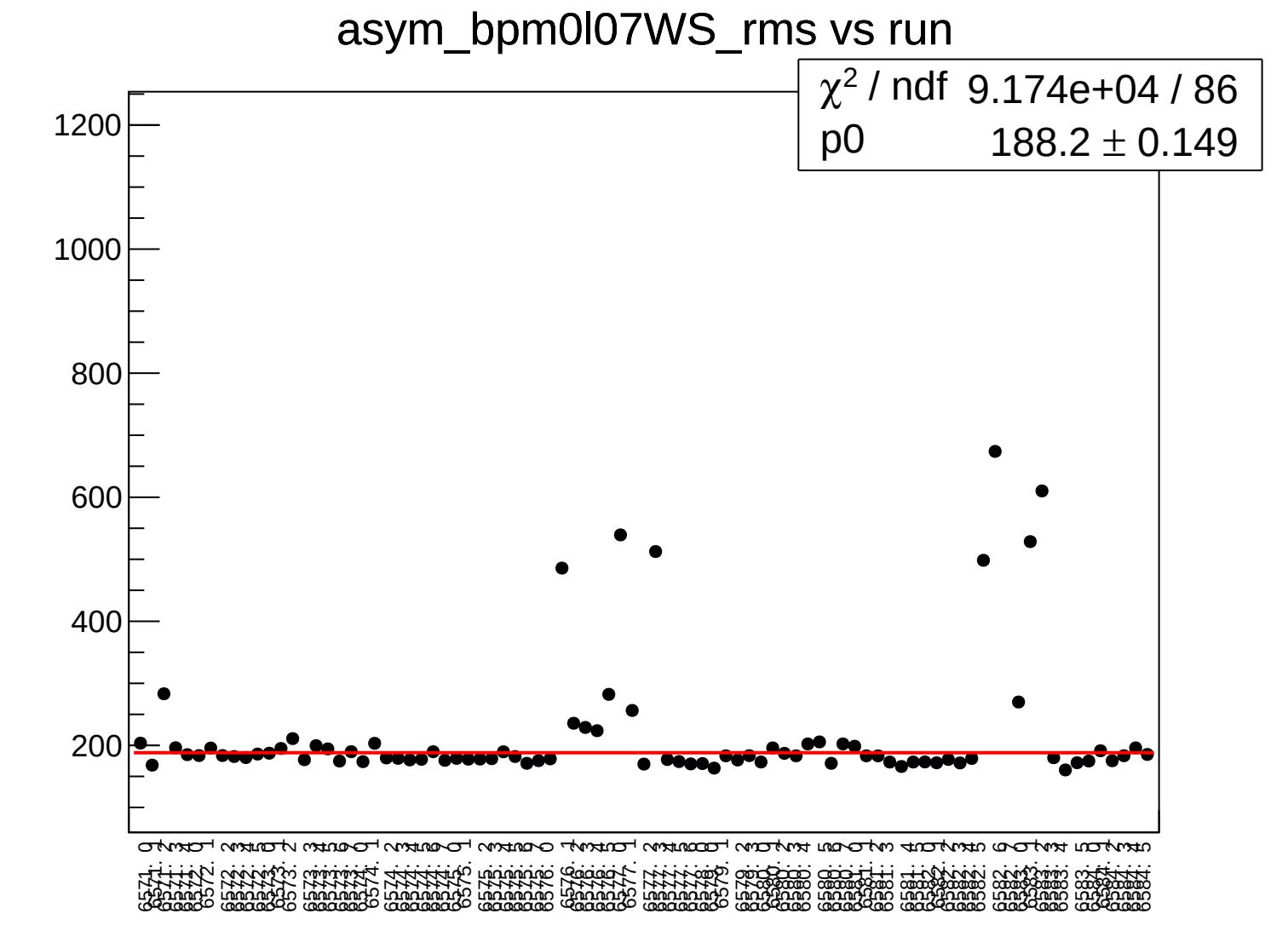

asym_bpm0l05WS_rms vs run
χ² / ndf 9.211e+04 / 86
p0 192.5 ± 0.1525
1200
1000
800
600
400
200

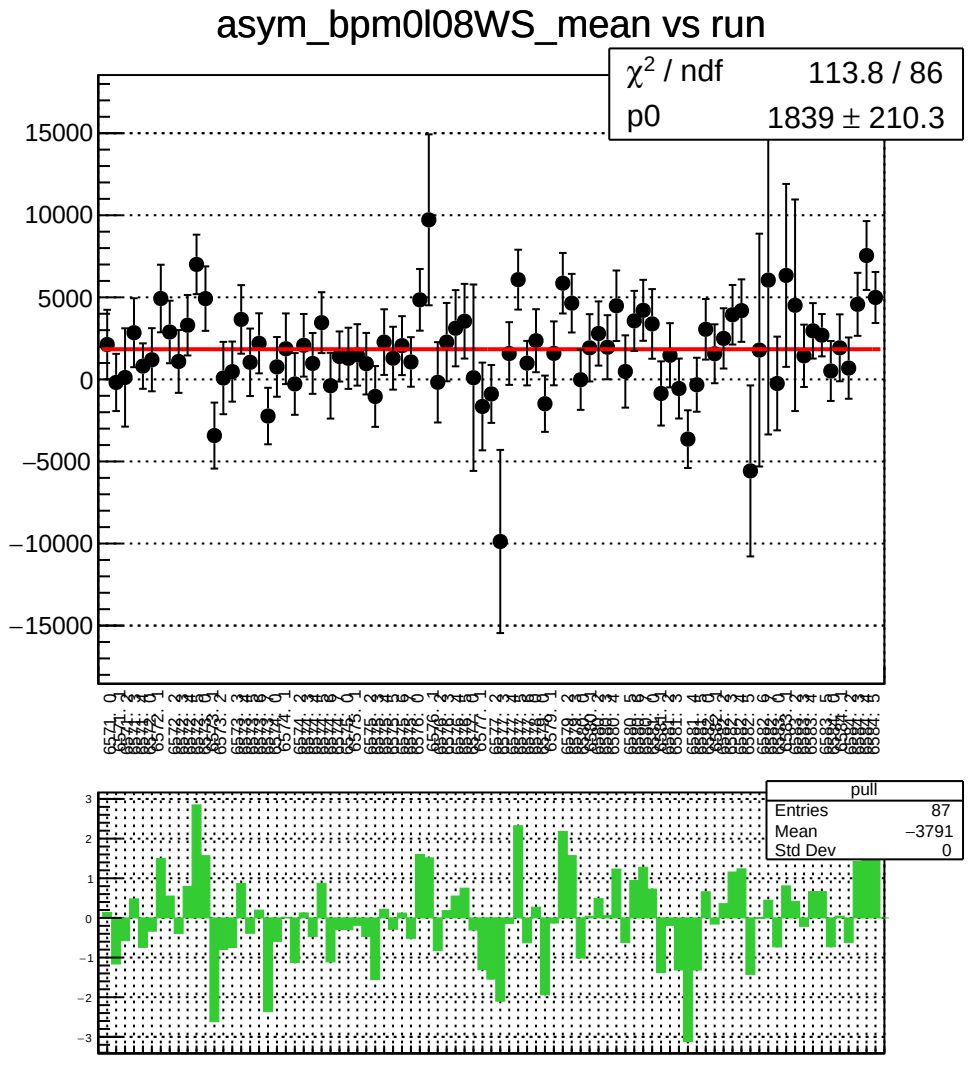

asym_bpm0l06WS_mean vs run
χ² / ndf 116.5 / 86
p0 2049 ± 214.2
pull
Entries 87
Mean 480.7
Std Dev 0
pull1D
Entries 87
Mean 0.009341
Std Dev 1.157

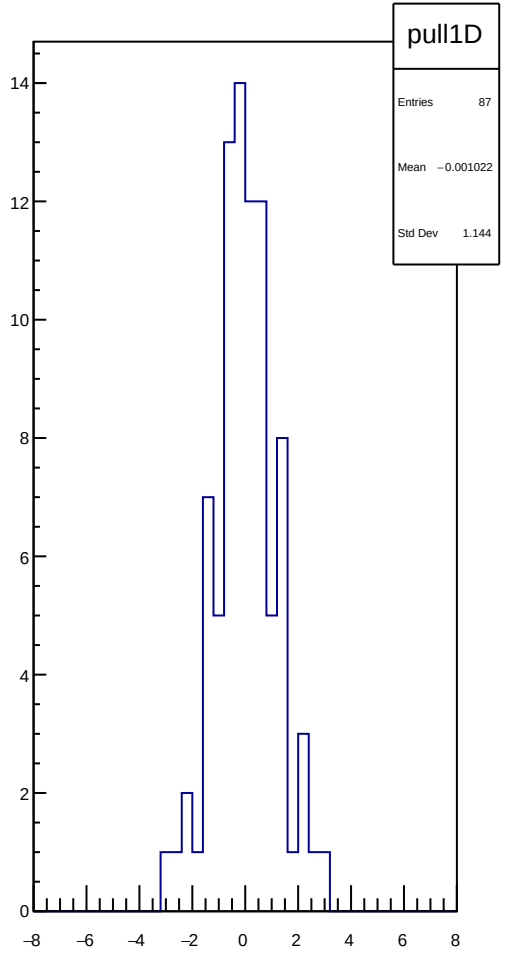

asym_bpm0l06WS_rms vs run
χ² / ndf 9.275e+04 / 86
p0 191.2 ± 0.1515
1200
1000
800
600
400
200

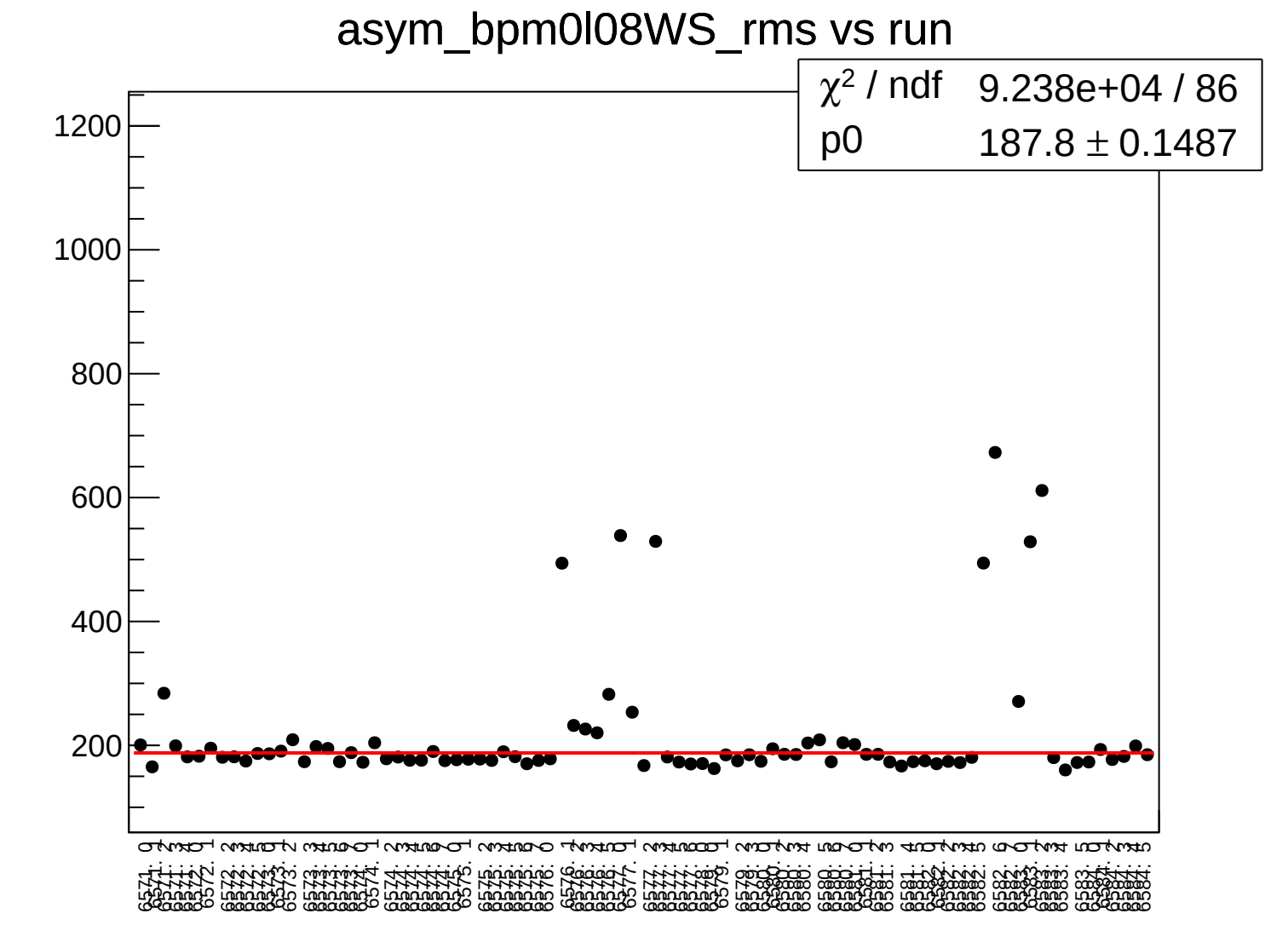

asym_bpm0l07WS_mean vs run
χ² / ndf 115.4 / 86
p0 1860 ± 210.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −285.3
Std Dev 0
3
2
1
0
−1
−2
−3

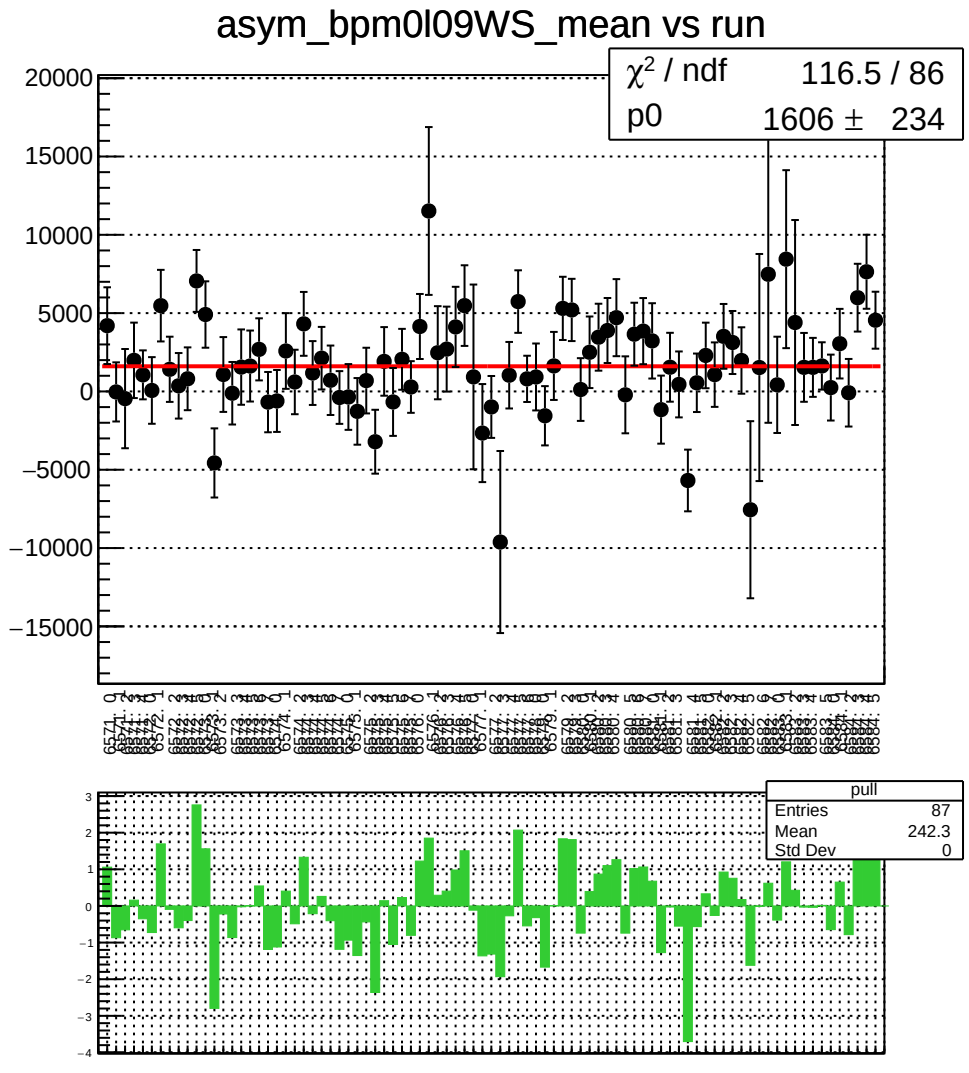

pull1D
Entries 87
Mean −0.007406
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

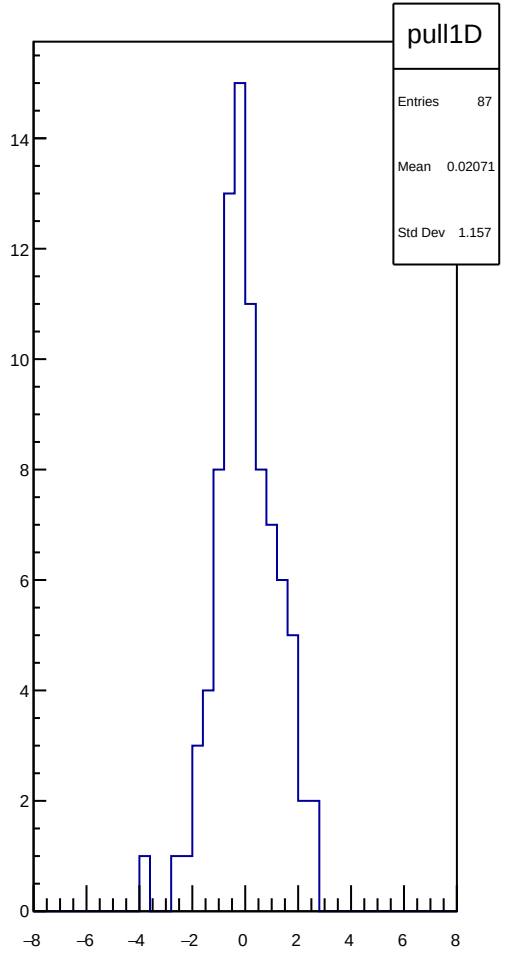

asym_bpm0l07WS_rms vs run
χ^2 / ndf 9.174e+04 / 86
p0 188.2 ± 0.149
1200
1000
800
600
400
200

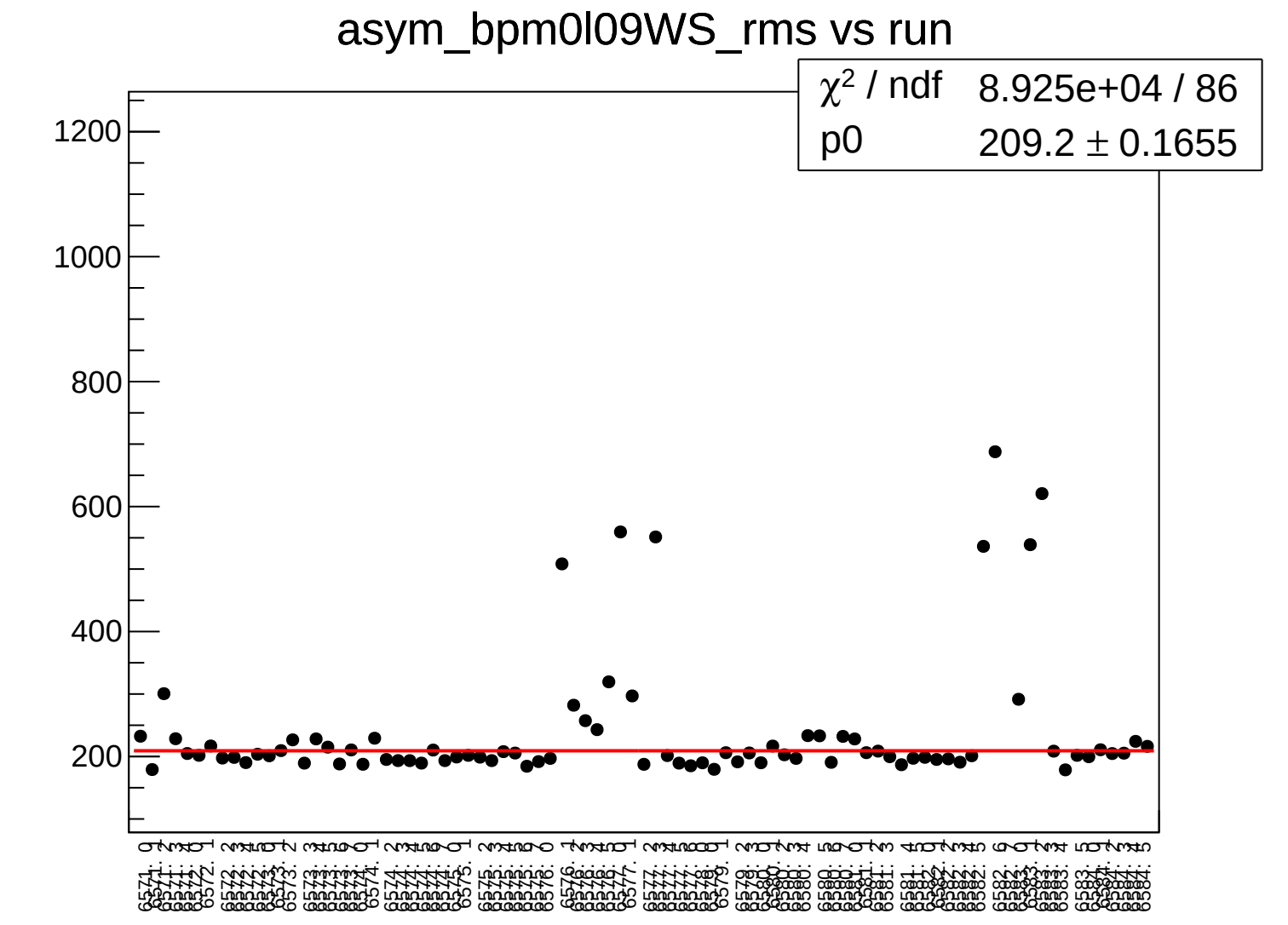

asym_bpm0l08WS_mean vs run
χ² / ndf 113.8 / 86
p0 1839 ± 210.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −3791
Std Dev 0
3
2
1
0
−1
−2
−3

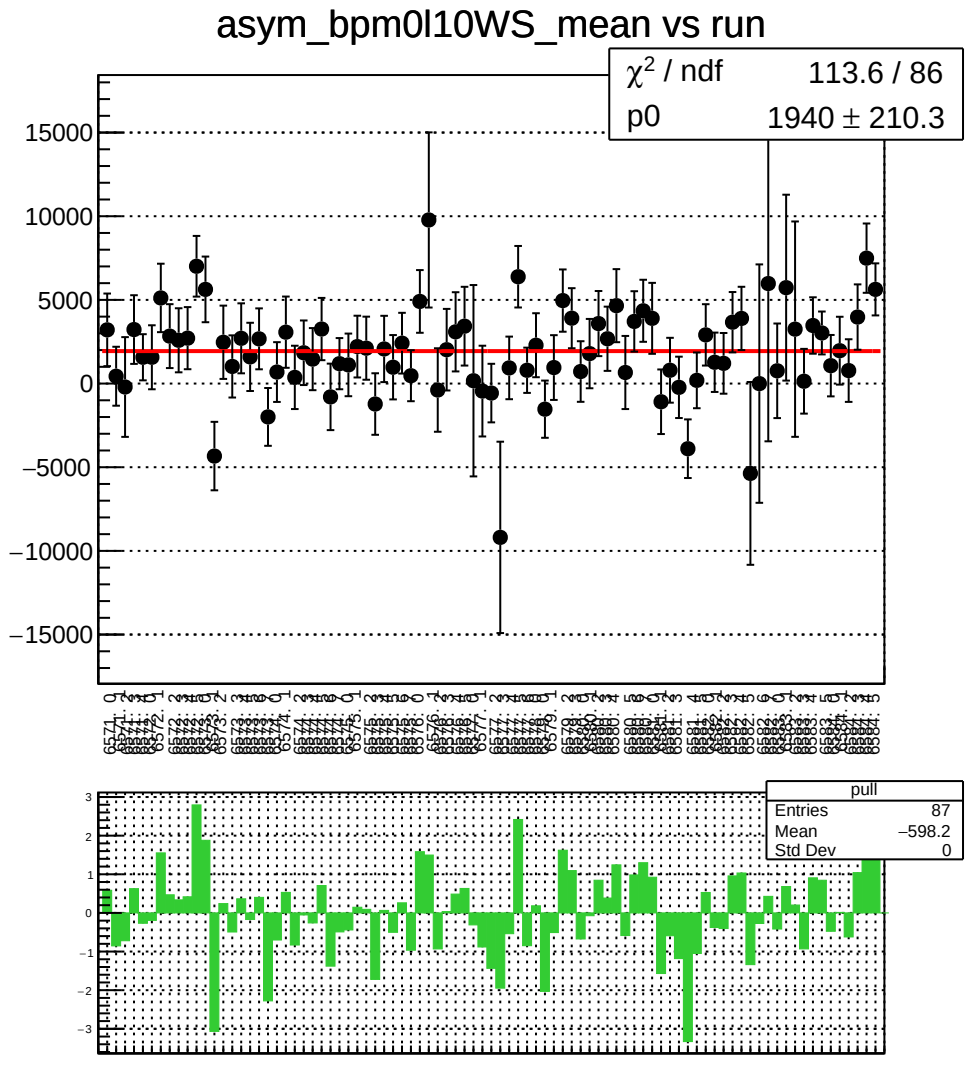

pull1D
Entries 87
Mean −0.001022
Std Dev 1.144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

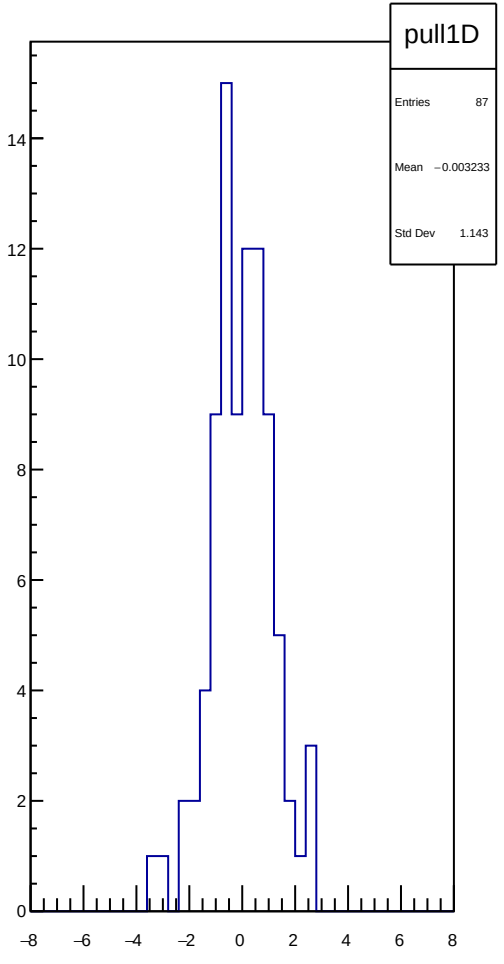

asym_bpm0l08WS_rms vs run
χ² / ndf 9.238e+04 / 86
p0 187.8 ± 0.1487
1200
1000
800
600
400
200

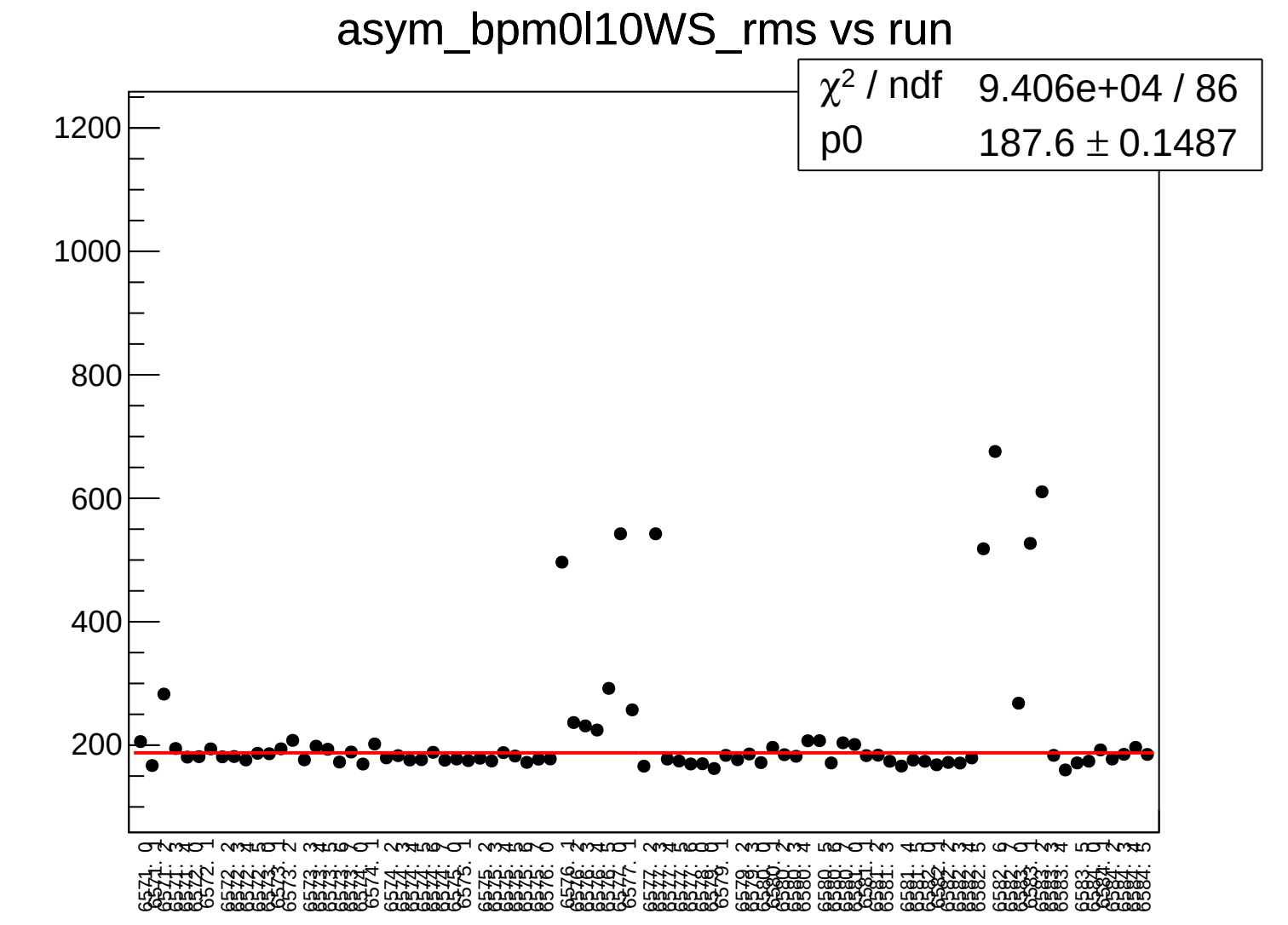

asym_bpm0l09WS_mean vs run
χ² / ndf 116.5 / 86
p0 1606 ± 234
pull
Entries 87
Mean 242.3
Std Dev 0

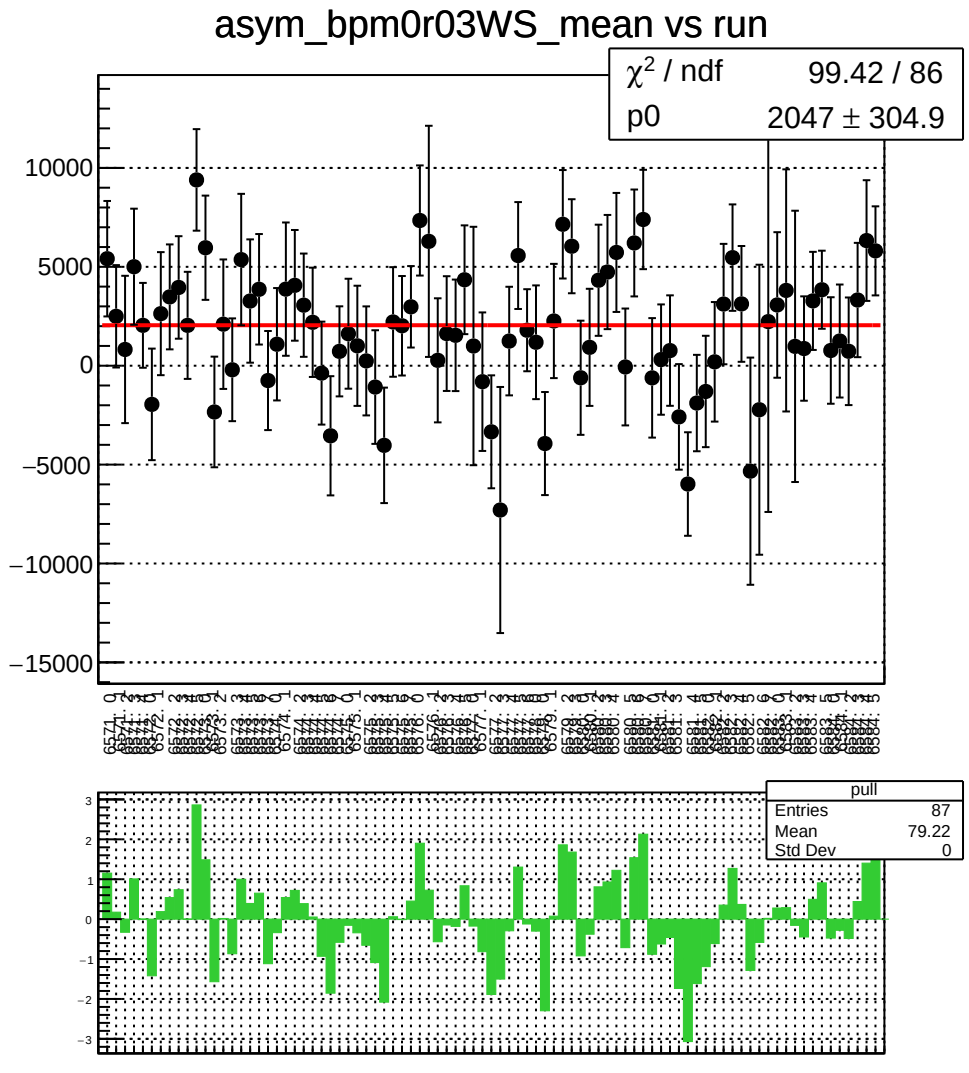

pull1D
Entries 87
Mean 0.02071
Std Dev 1.157

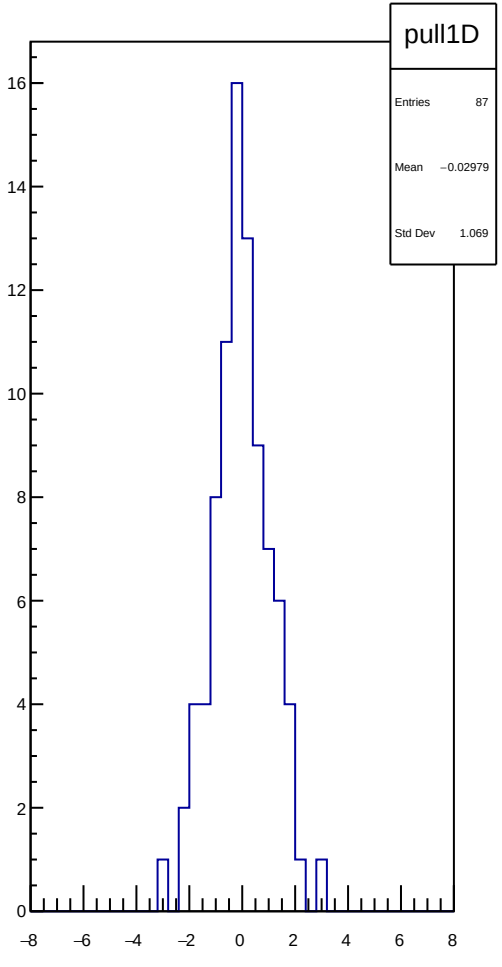

asym_bpm0l09WS_rms vs run
χ² / ndf 8.925e+04 / 86
p0 209.2 ± 0.1655
1200
1000
800
600
400
200

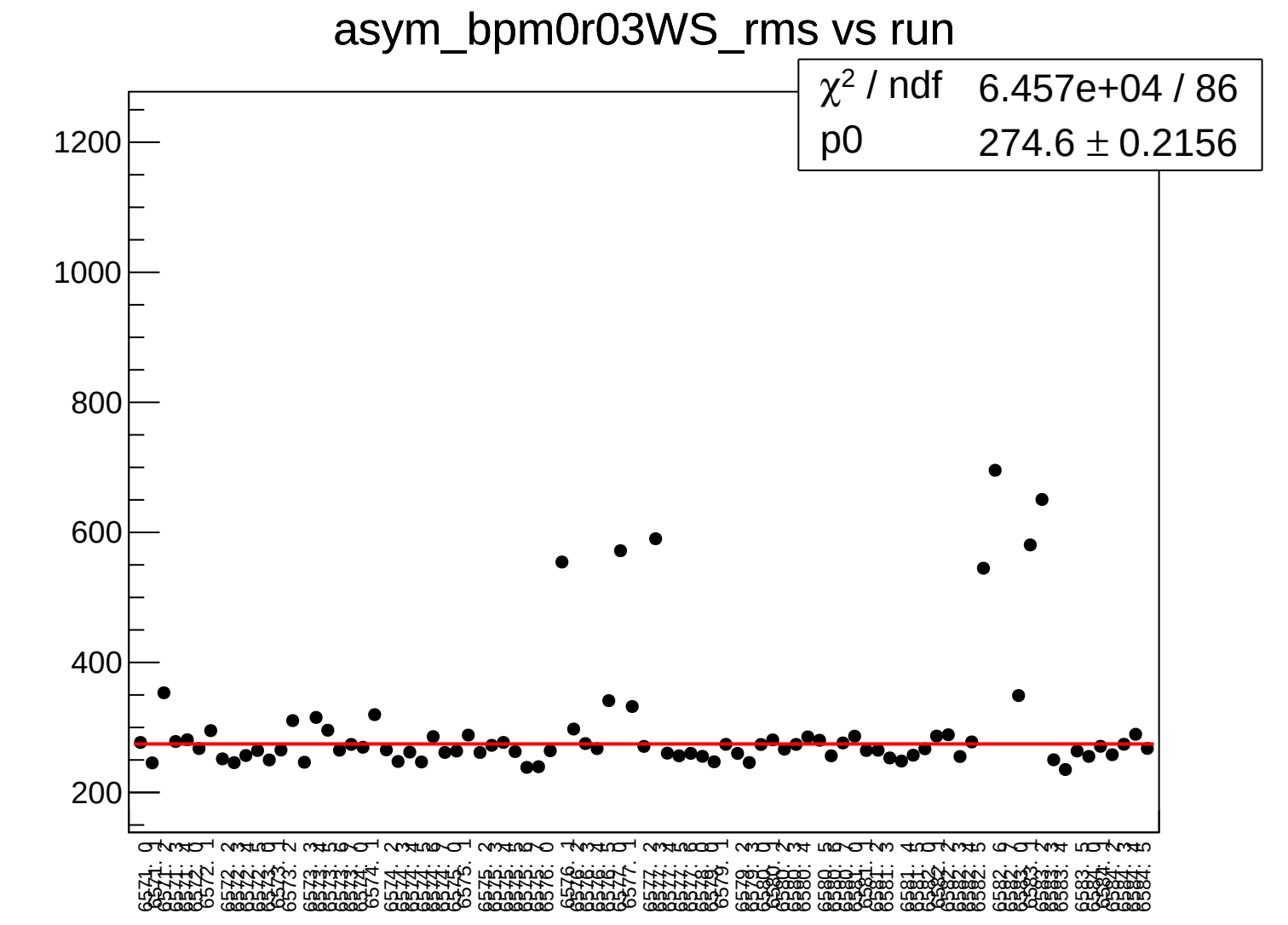

asym_bpm0l10WS_mean vs run
χ² / ndf 113.6 / 86
p0 1940 ± 210.3
pull
Entries 87
Mean −598.2
Std Dev 0

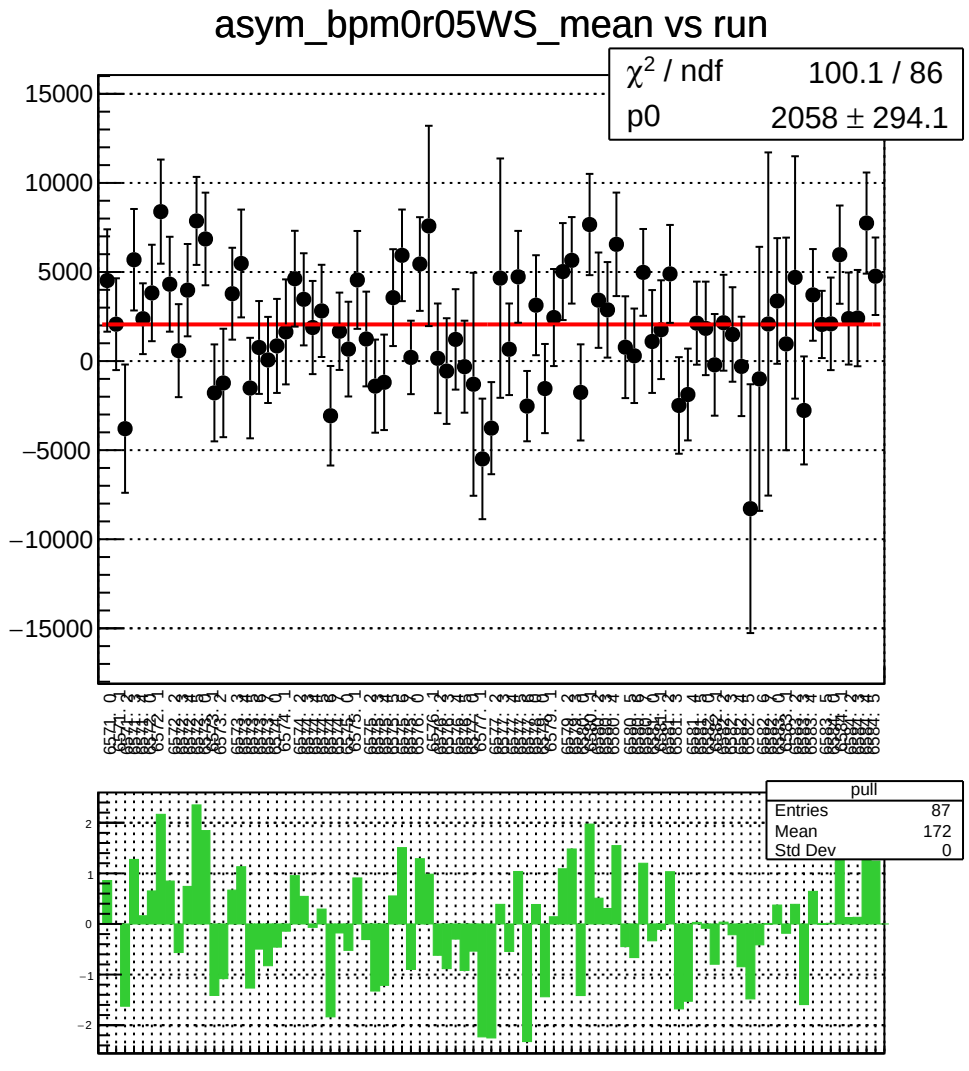

pull1D
Entries 87
Mean −0.003233
Std Dev 1.143

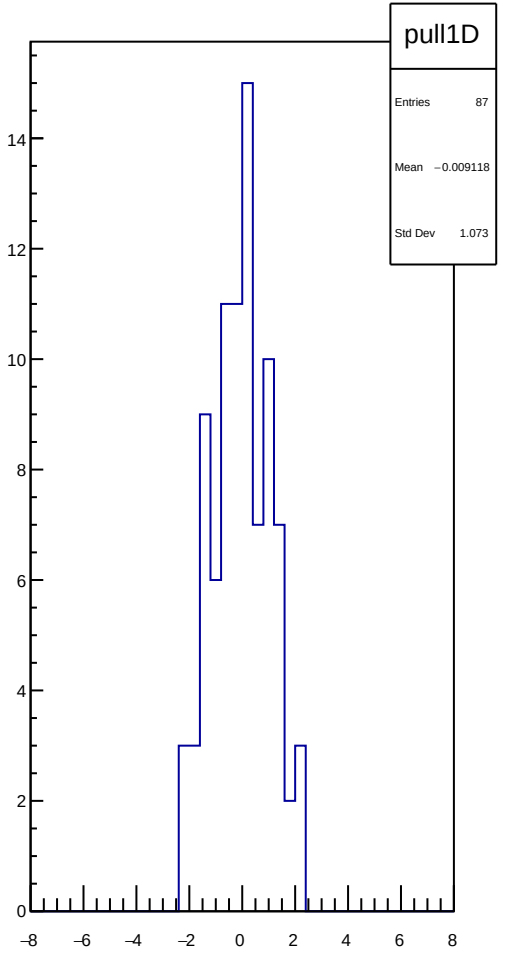

asym_bpm0l10WS_rms vs run
χ^2 / ndf 9.406e+04 / 86
p0 187.6 ± 0.1487
1200
1000
800
600
400
200

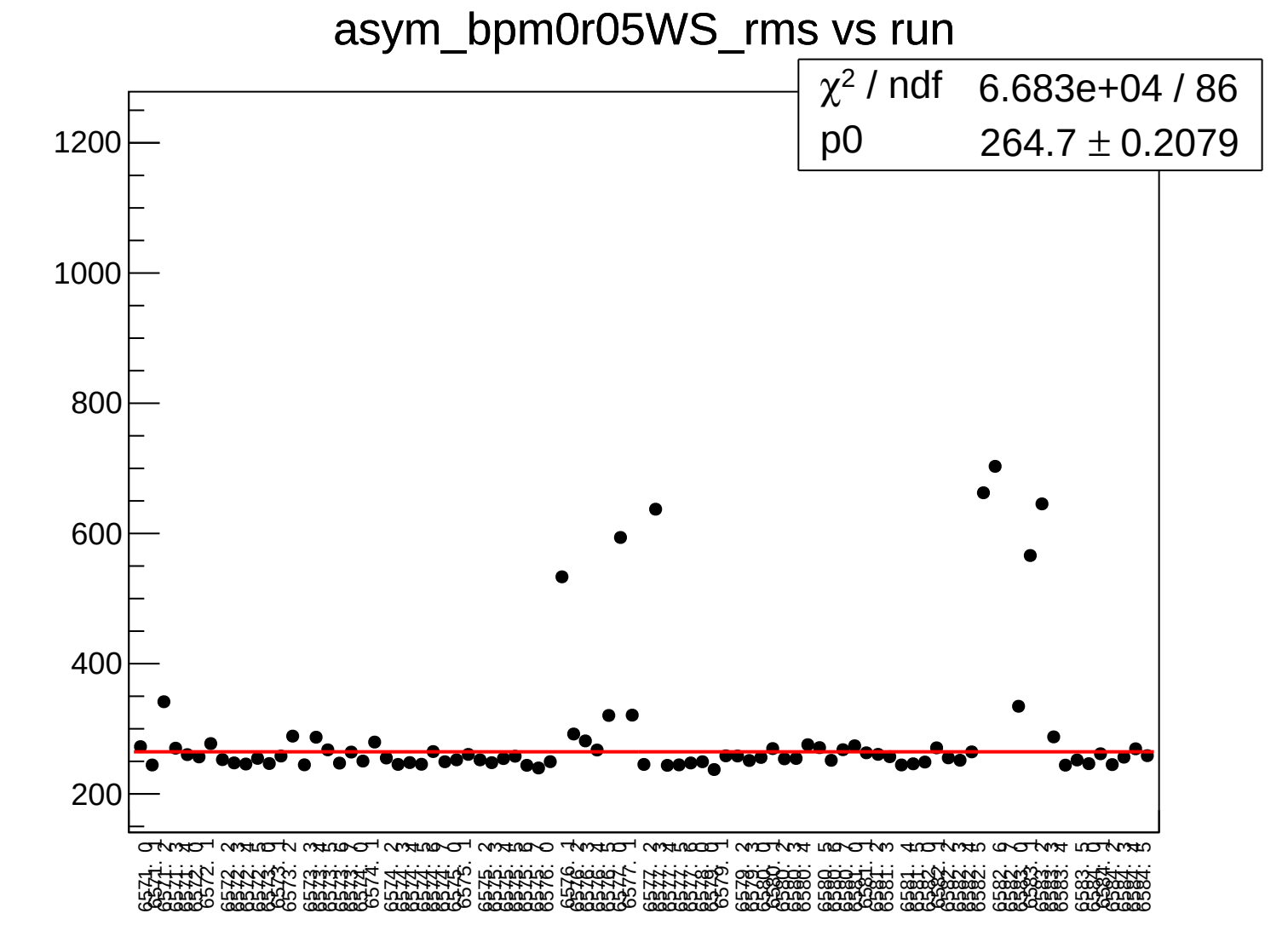

asym_bpm0r03WS_mean vs run
χ² / ndf 99.42 / 86
p0 2047 ± 304.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 79.22
Std Dev 0
3
2
1
0
−1
−2
−3

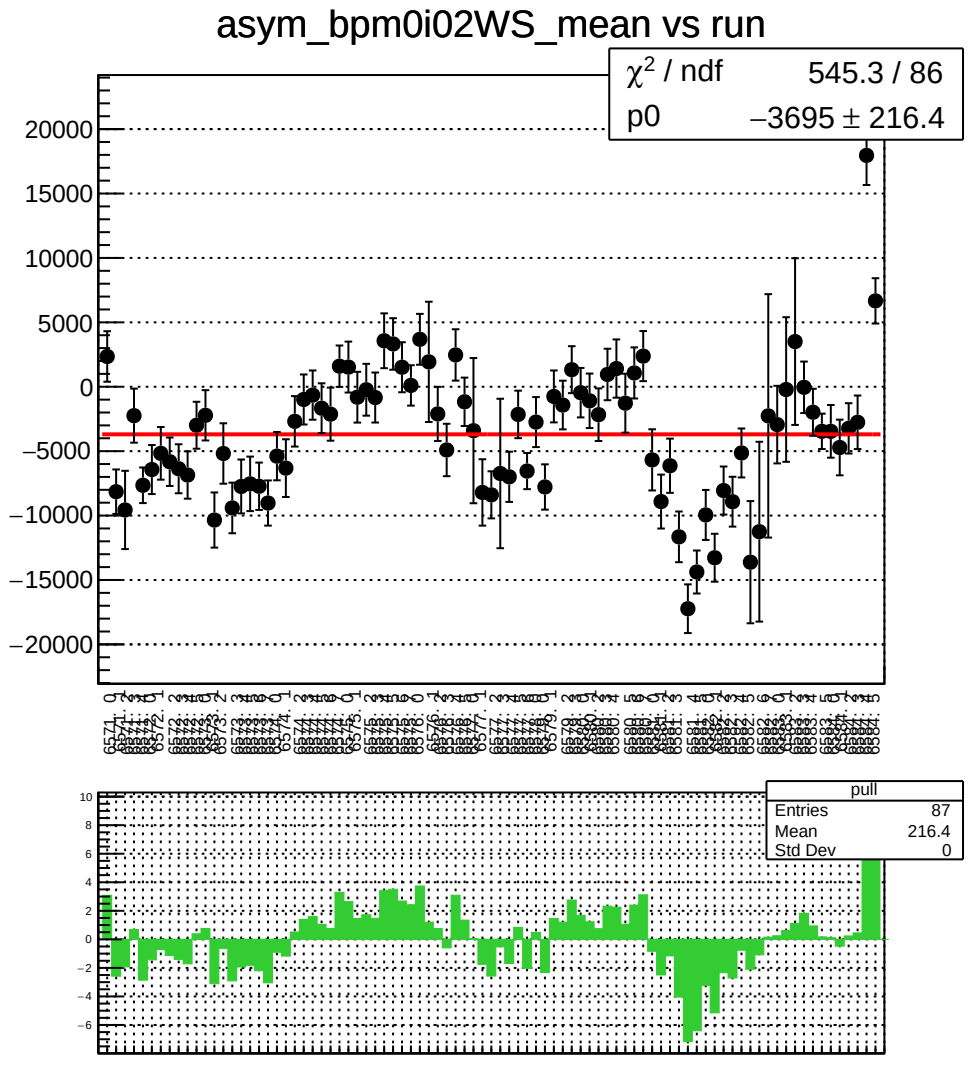

pull1D
Entries 87
Mean −0.02979
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

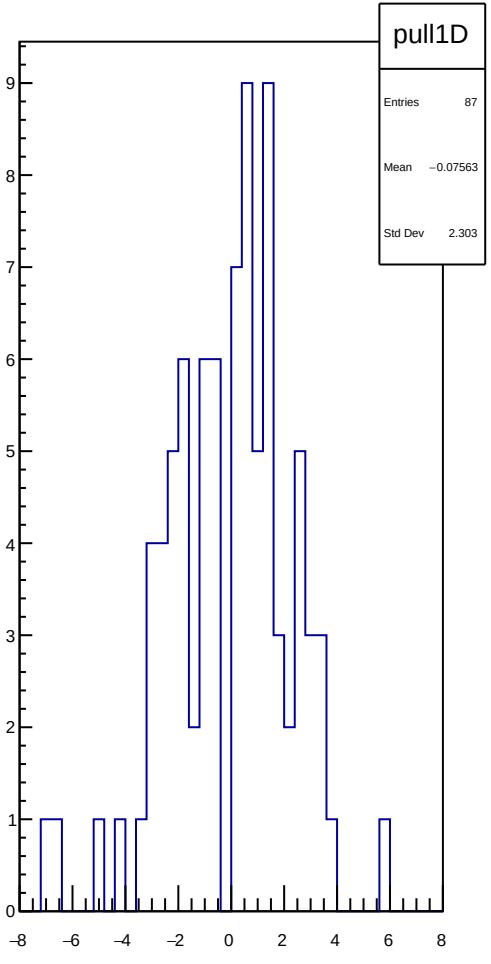

asym_bpm0r03WS_rms vs run
χ² / ndf 6.457e+04 / 86
p0 274.6 ± 0.2156
1200
1000
800
600
400
200

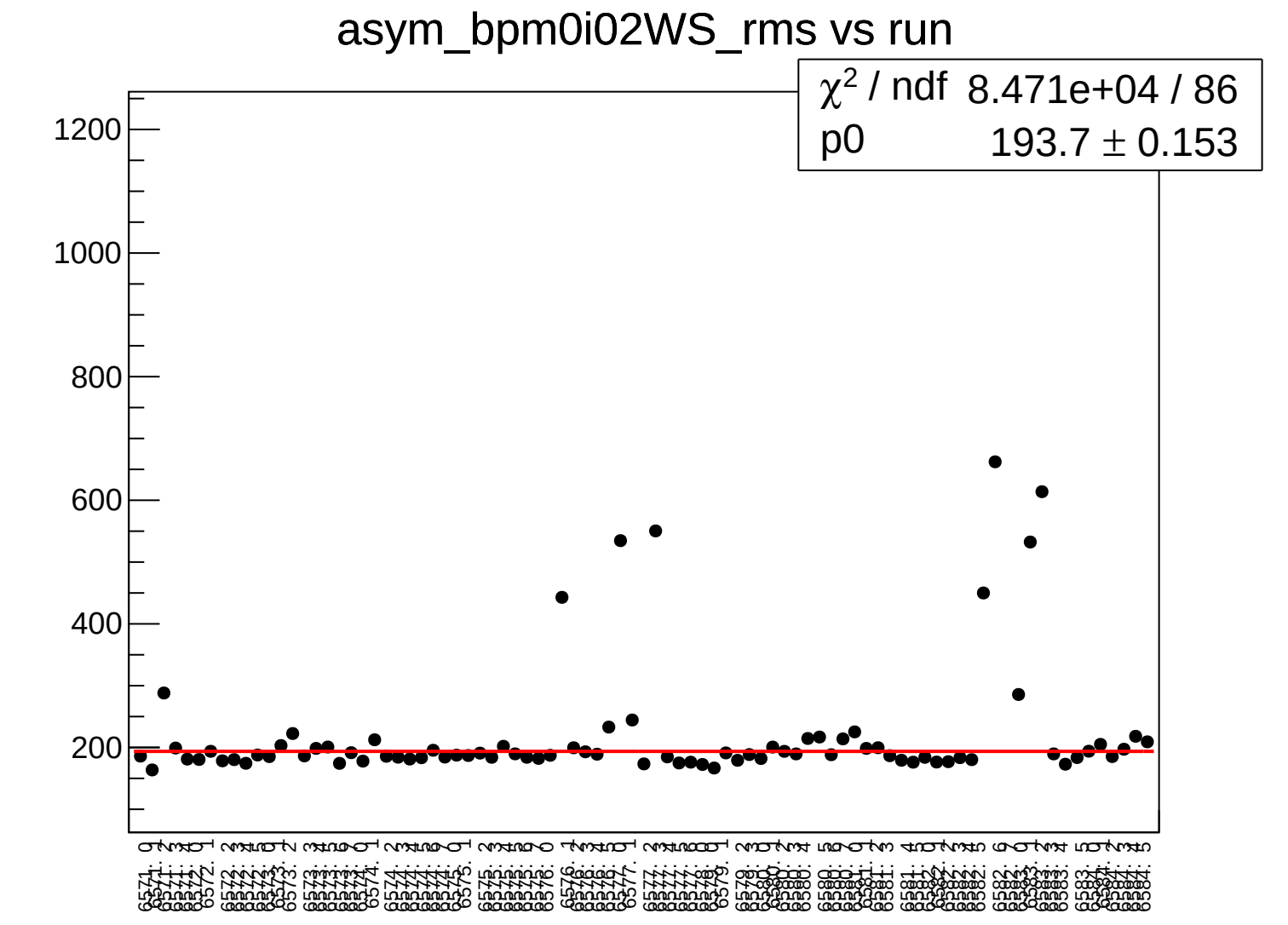

asym_bpm0r05WS_mean vs run
χ² / ndf 100.1 / 86
p0 2058 ± 294.1
pull
Entries 87
Mean 172
Std Dev 0

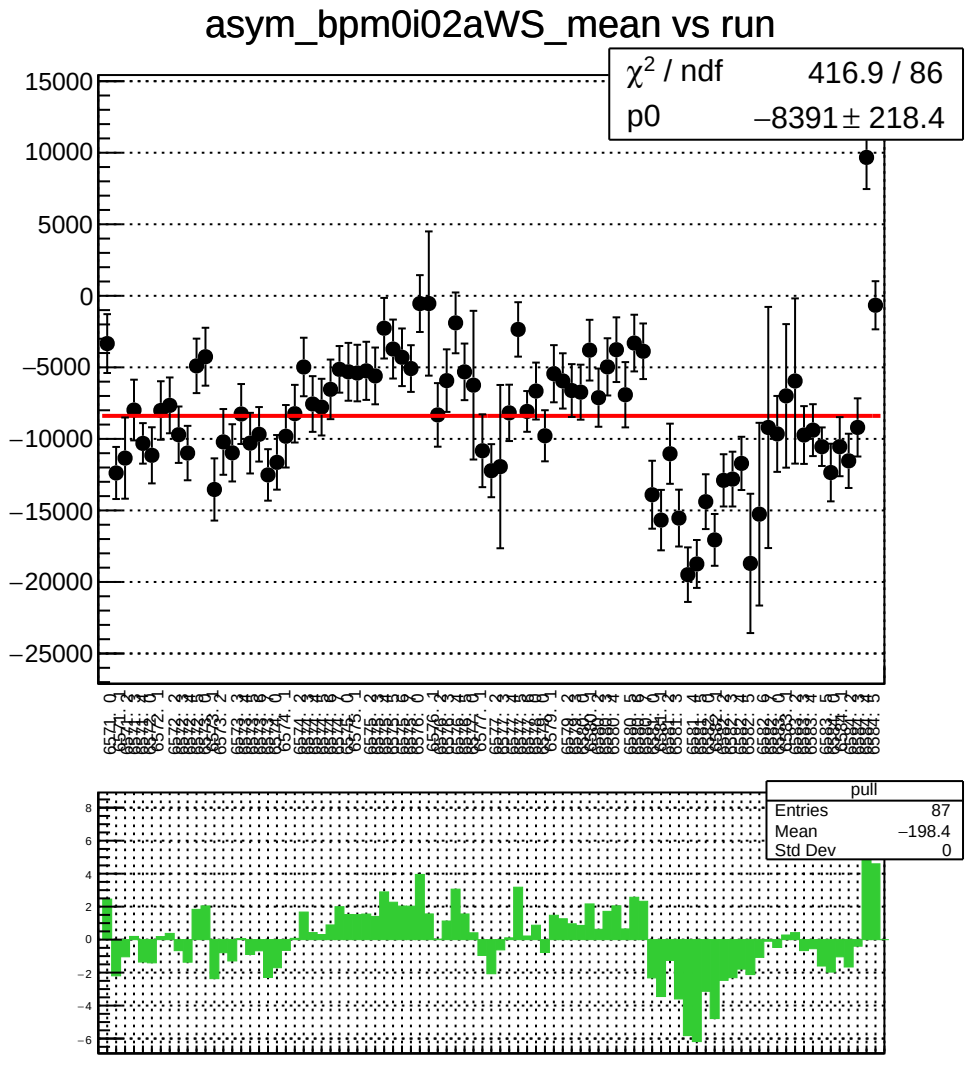

pull1D
Entries 87
Mean −0.009118
Std Dev 1.073

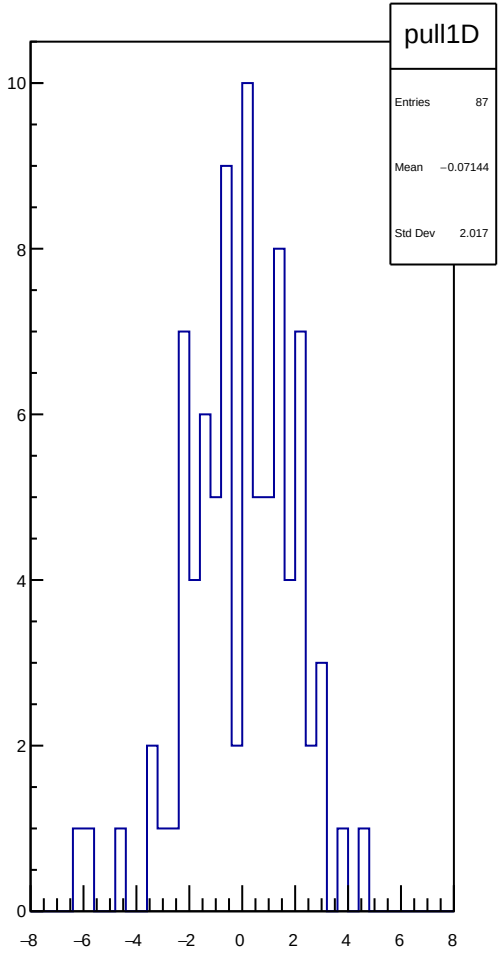

asym_bpm0r05WS_rms vs run
χ² / ndf 6.683e+04 / 86
p0 264.7 ± 0.2079
1200
1000
800
600
400
200

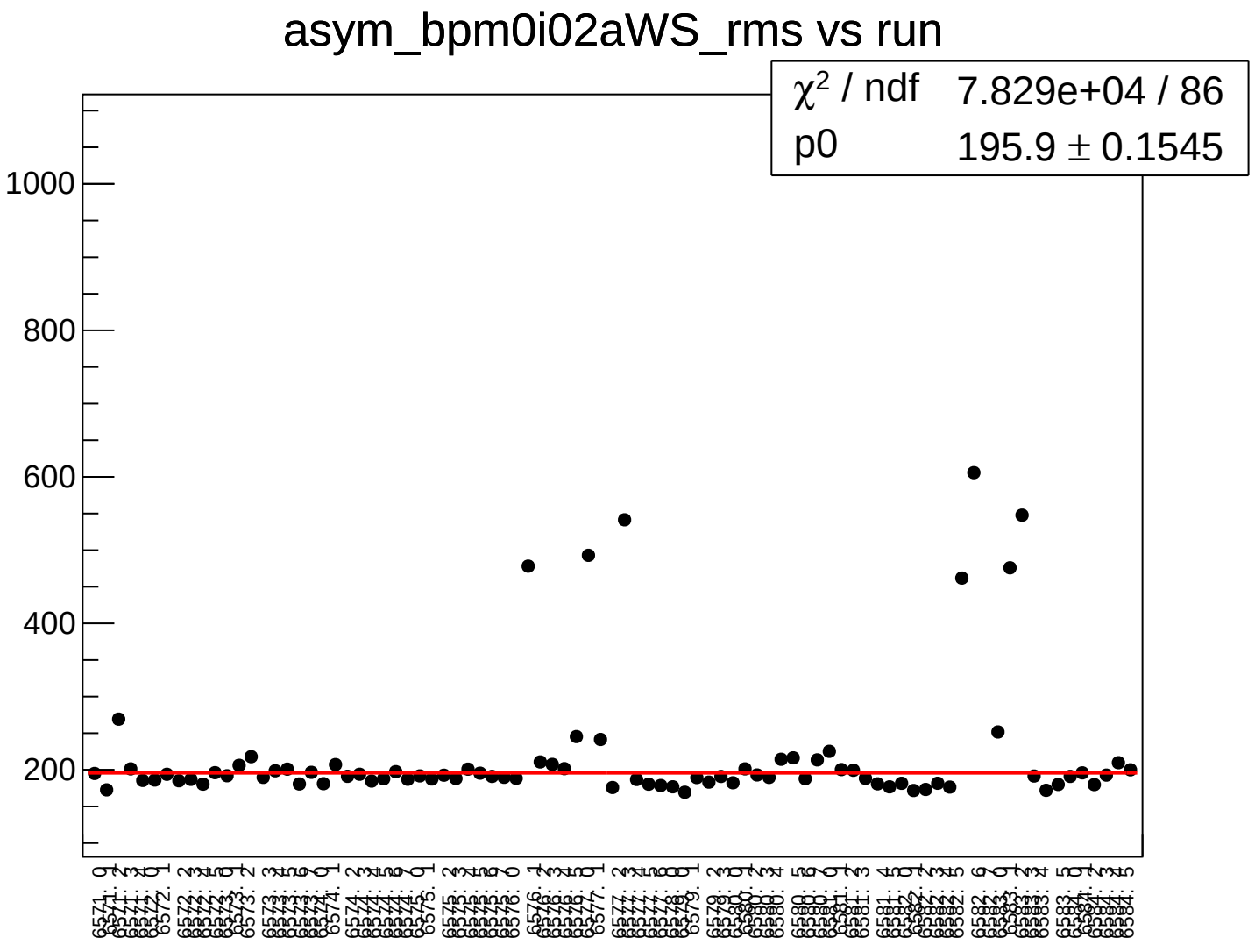

asym_bpm0i02WS_mean vs run
χ² / ndf 545.3 / 86
p0 −3695 ± 216.4
pull
Entries 87
Mean 216.4
Std Dev 0

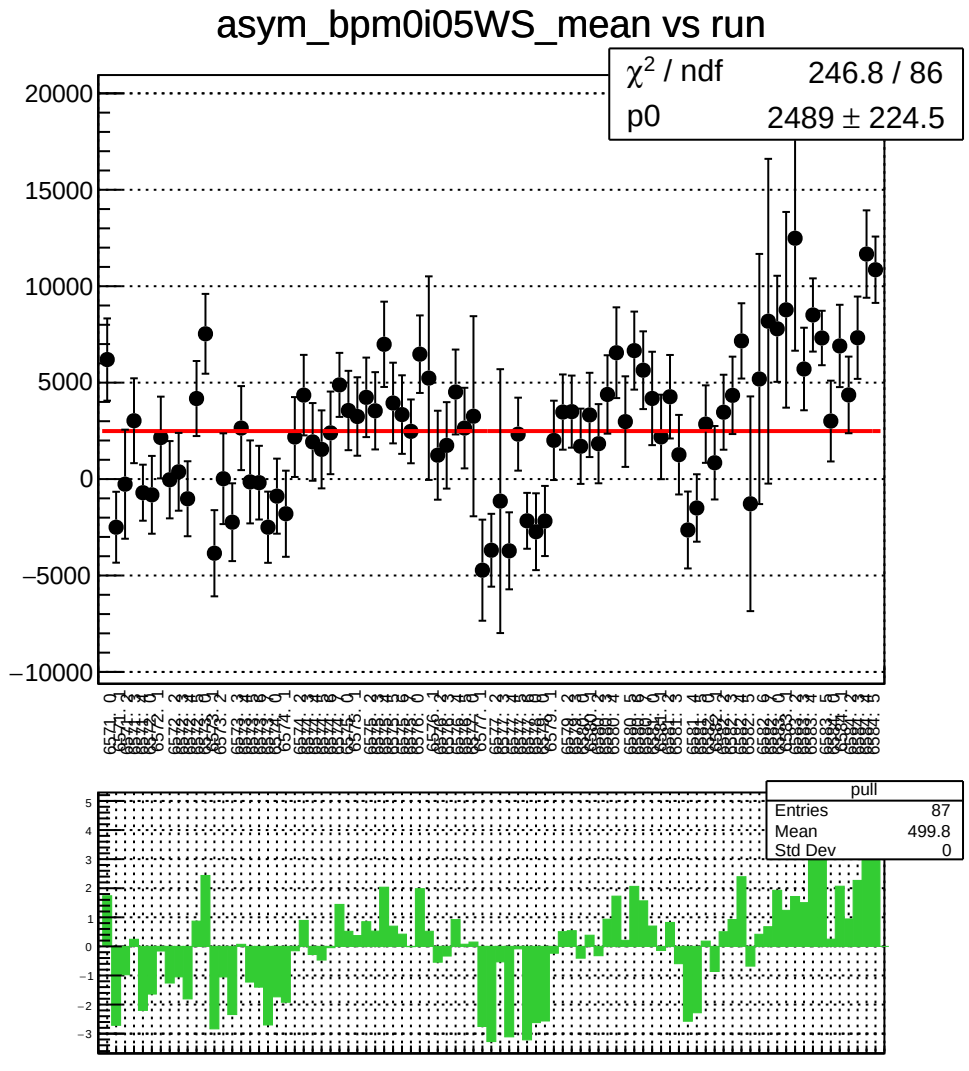

pull1D
Entries 87
Mean −0.07563
Std Dev 2.303

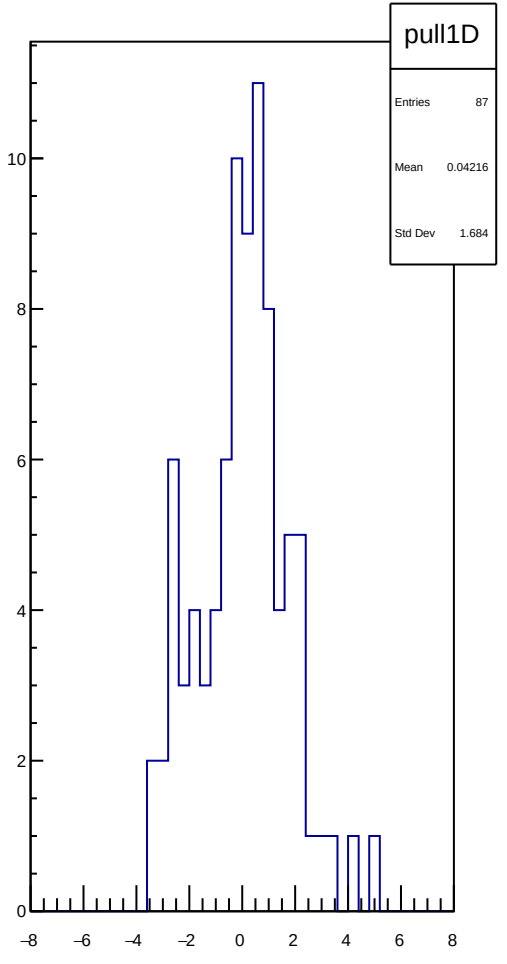

asym_bpm0i02WS_rms vs run
χ^2 / ndf 8.471e+04 / 86
p0 193.7 ± 0.153
1200
1000
800
600
400
200

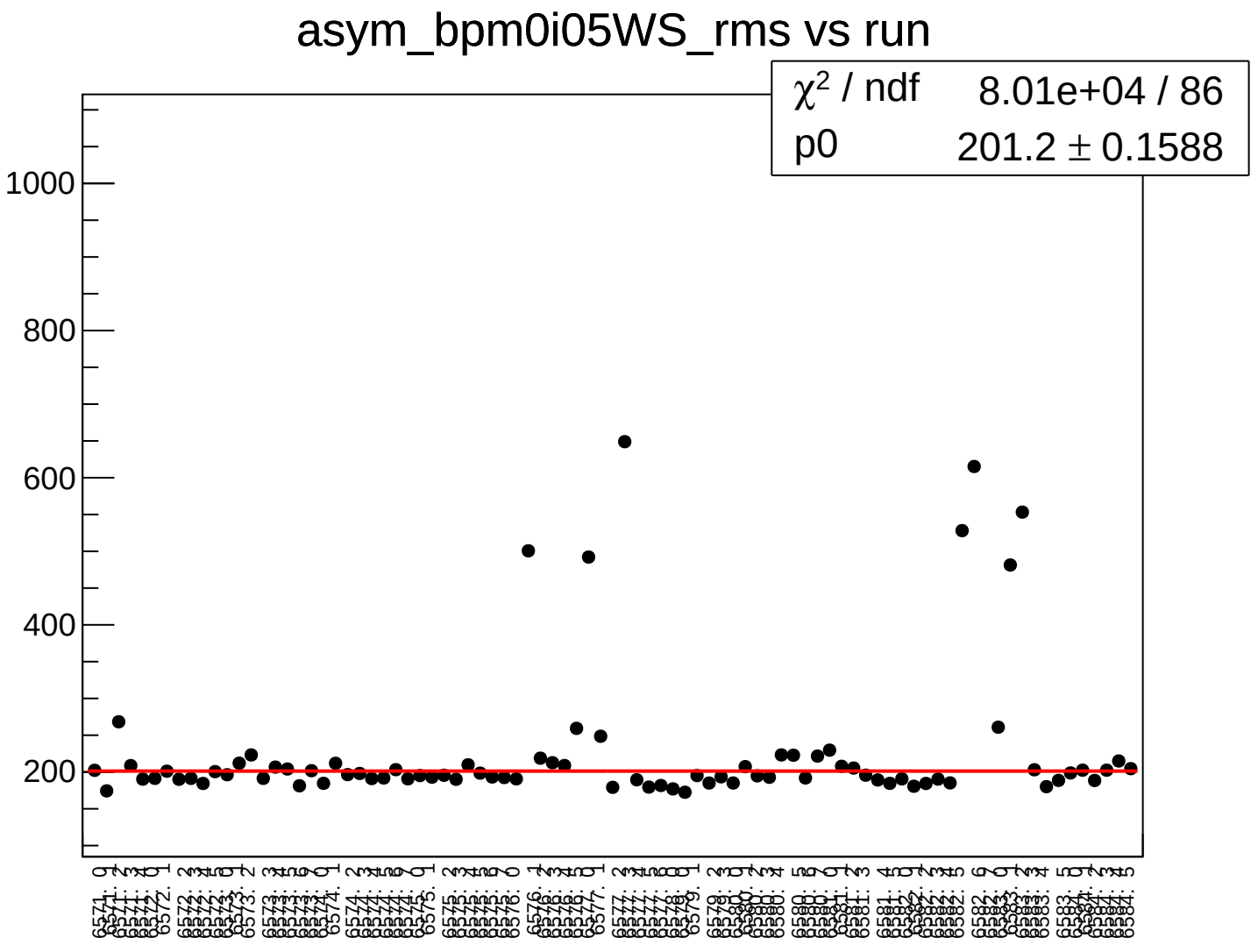

asym_bpm0i02aWS_mean vs run
χ² / ndf 416.9 / 86
p0 −8391 ± 218.4
pull
Entries 87
Mean −198.4
Std Dev 0

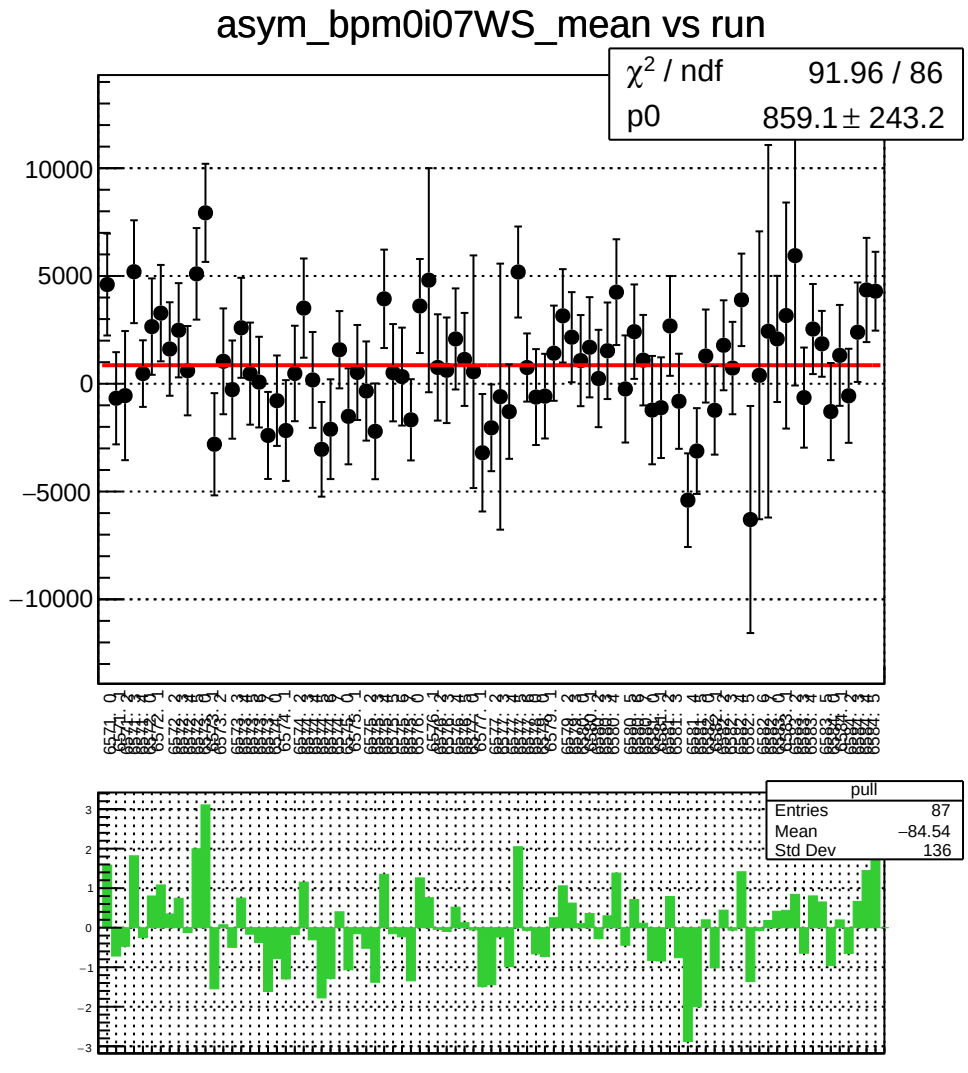

pull1D
Entries 87
Mean −0.07144
Std Dev 2.017

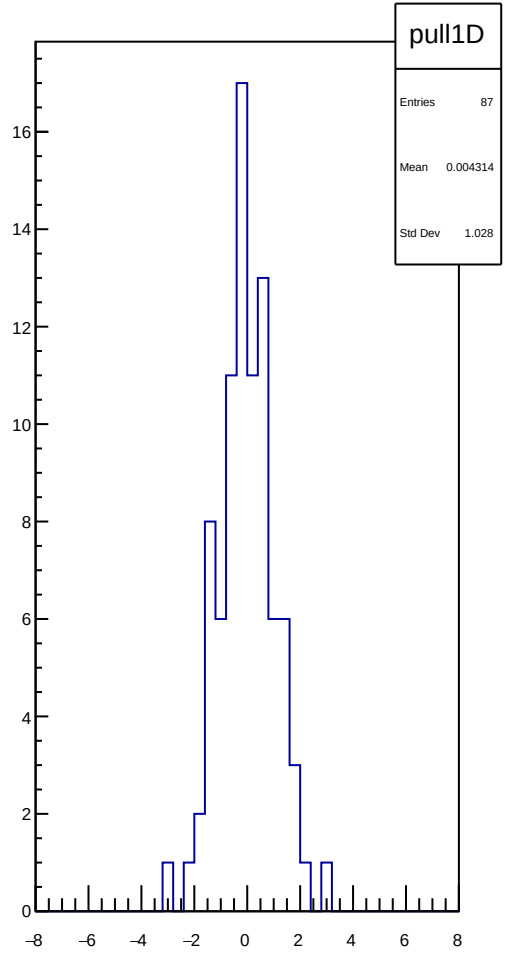

asym_bpm0i02aWS_rms vs run
χ² / ndf 7.829e+04 / 86
p0 195.9 ± 0.1545
1000
800
600
400
200

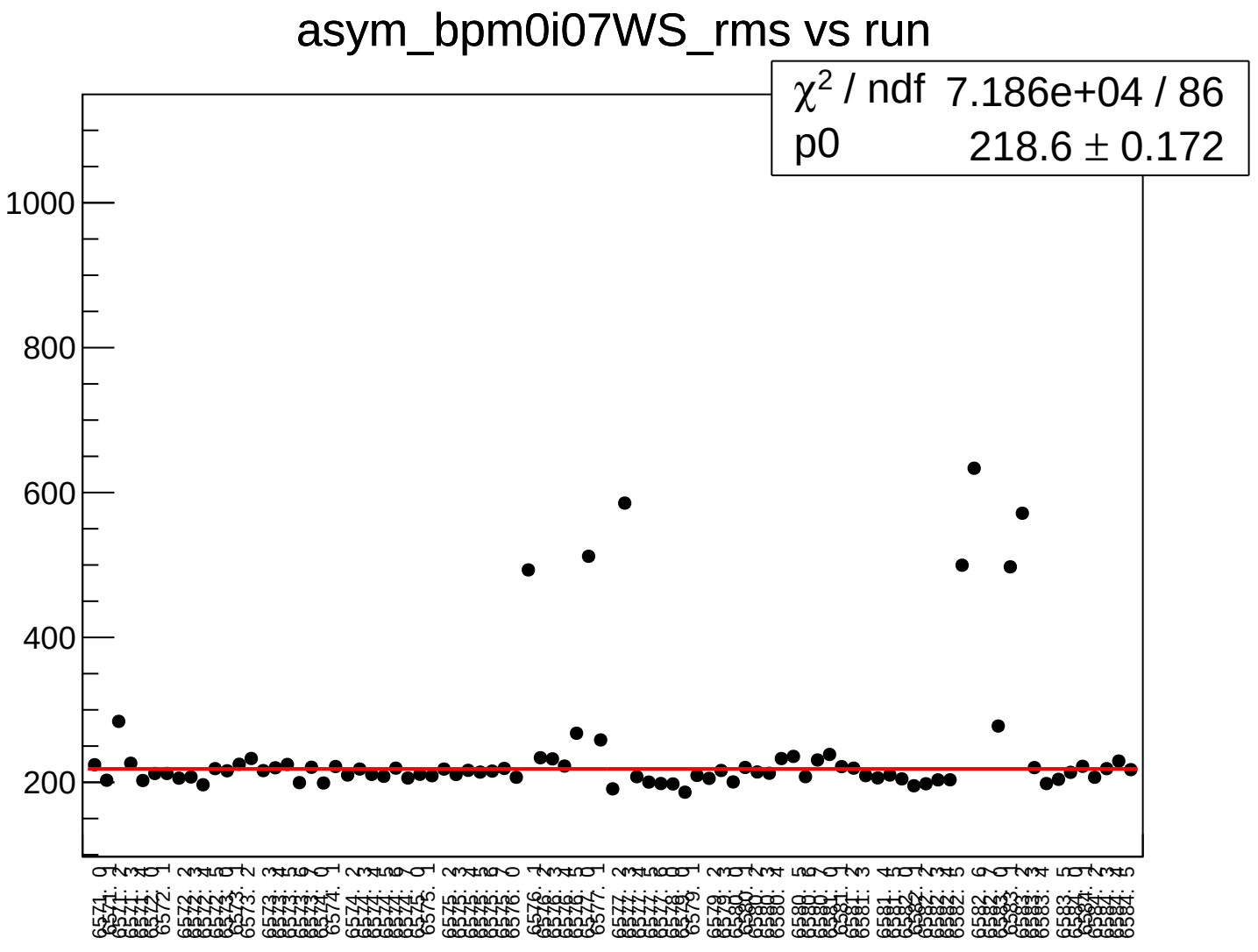

asym_bpm0i05WS_mean vs run
χ² / ndf 246.8 / 86
p0 2489 ± 224.5
pull
Entries 87
Mean 499.8
Std Dev 0

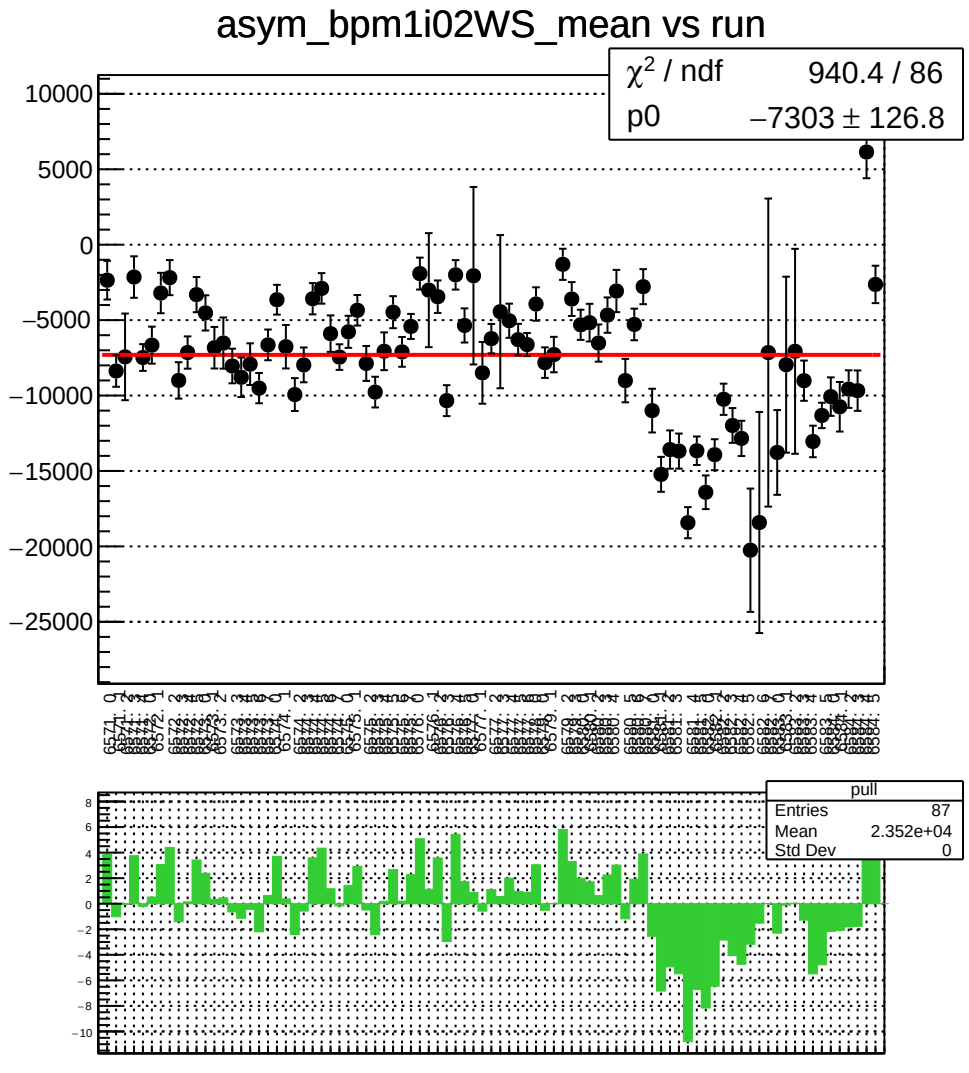

pull1D
Entries 87
Mean 0.04216
Std Dev 1.684

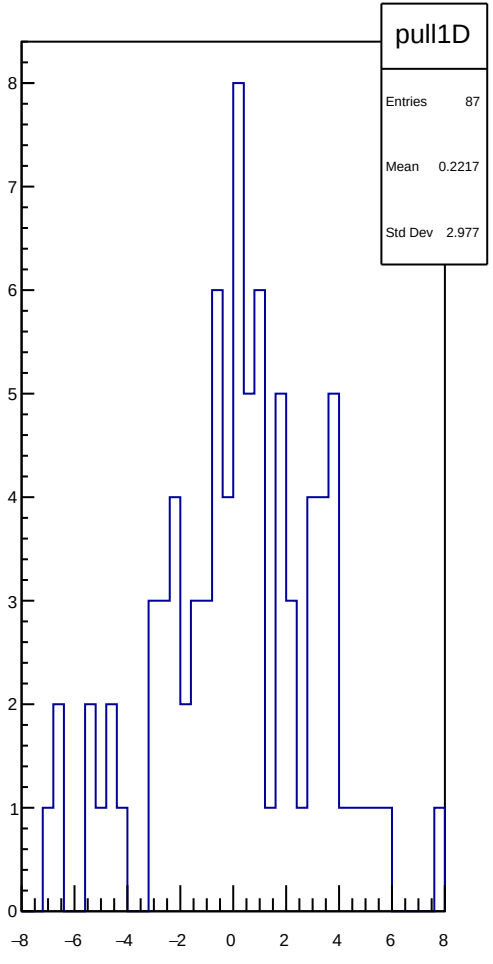

asym_bpm0i05WS_rms vs run
χ² / ndf 8.01e+04 / 86
p0 201.2 ± 0.1588
1000
800
600
400
200

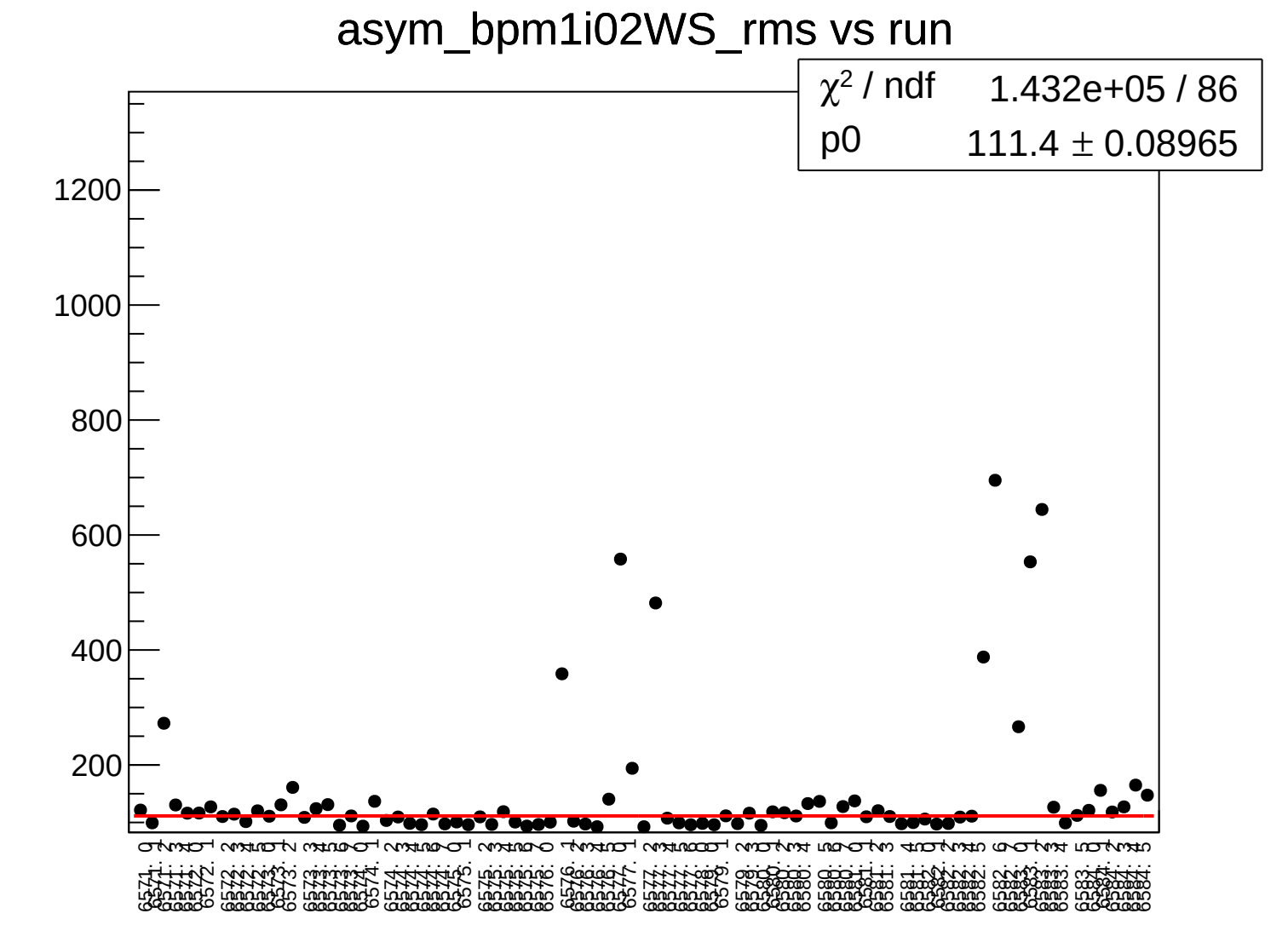

asym_bpm0i07WS_mean vs run
χ² / ndf 91.96 / 86
p0 859.1 ± 243.2
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −84.54
Std Dev 136
3
2
1
0
−1
−2
−3

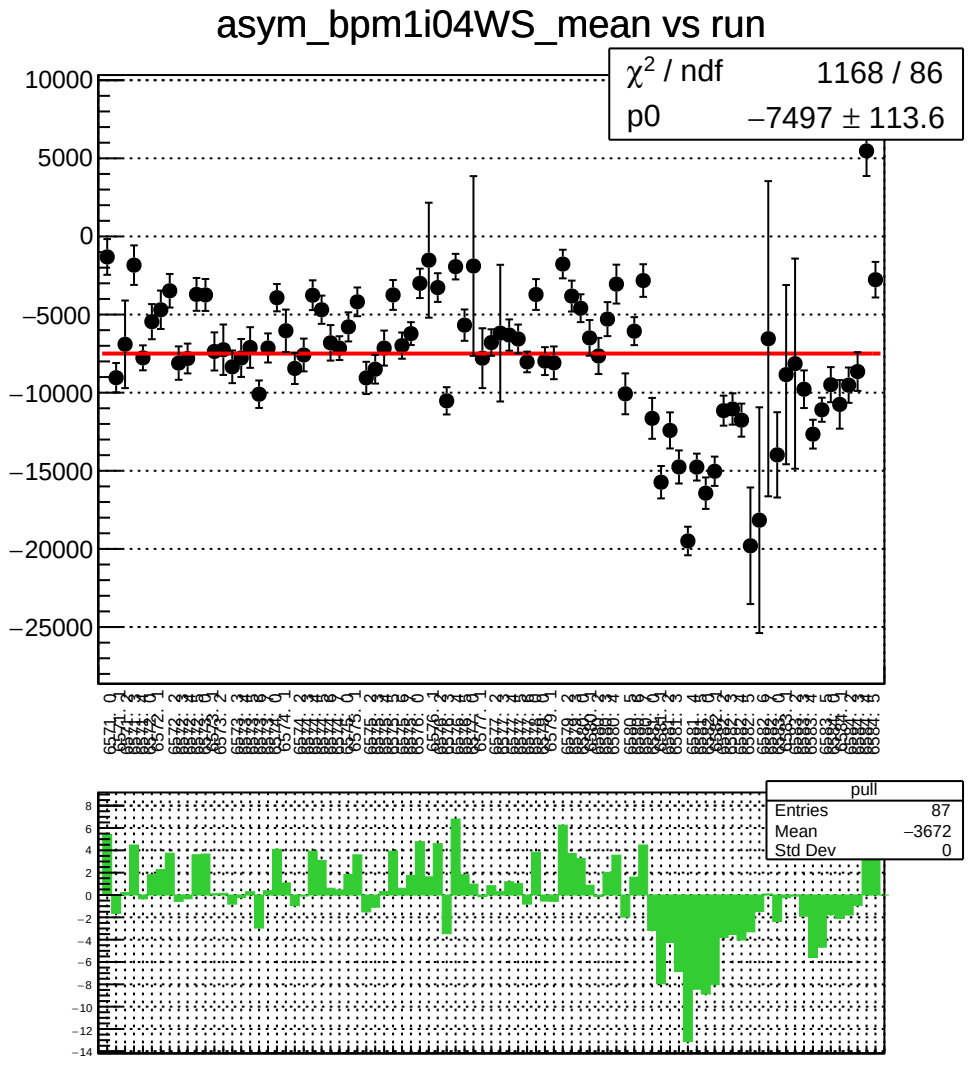

pull1D
Entries 87
Mean 0.004314
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

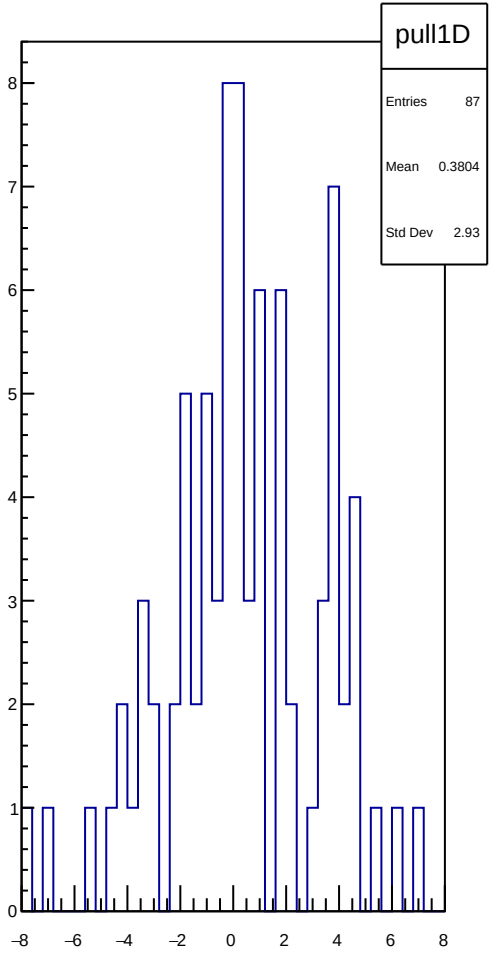

asym_bpm0i07WS_rms vs run
χ^2 / ndf 7.186e+04 / 86
p0 218.6 ± 0.172
1000
800
600
400
200

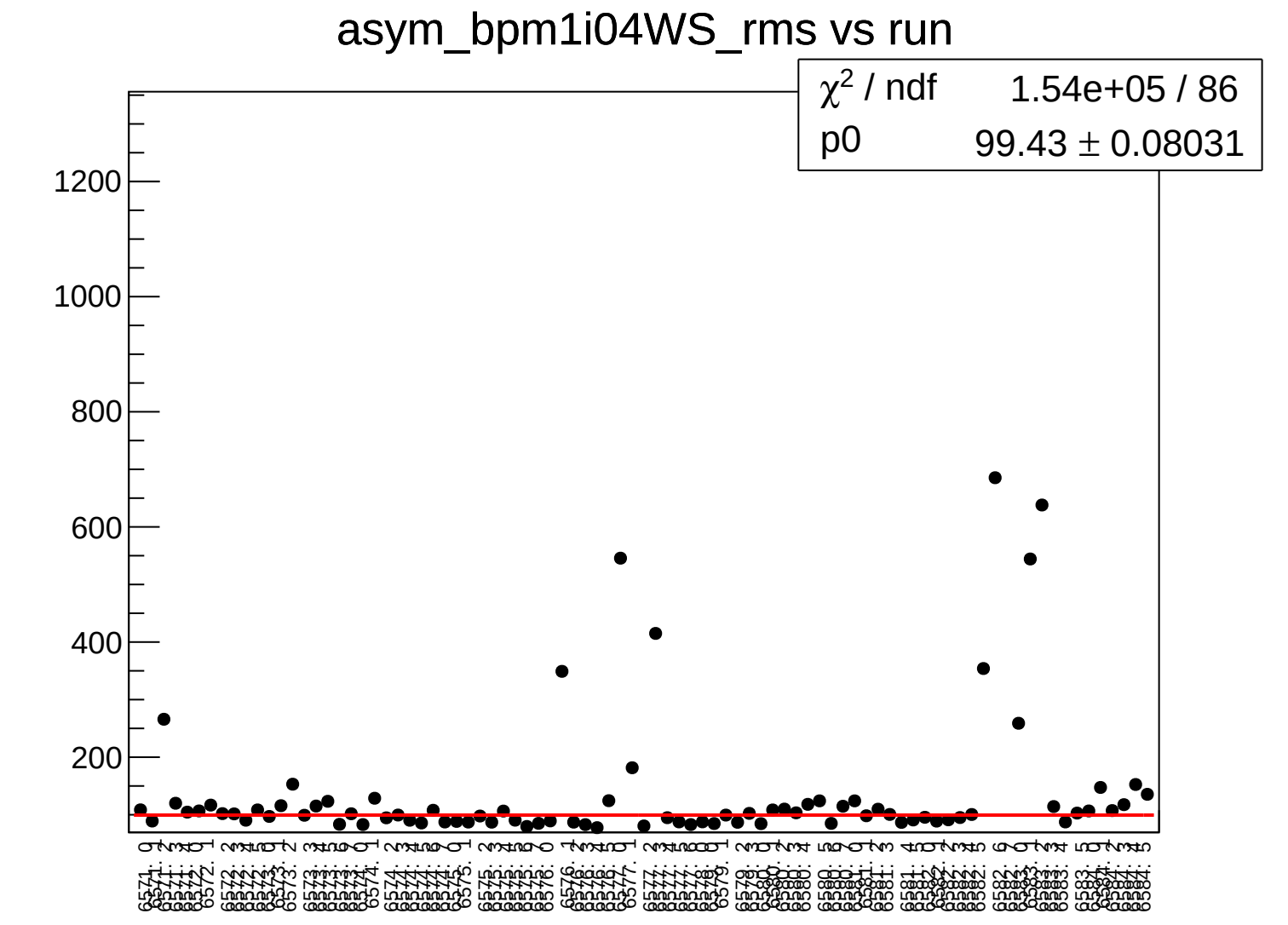

asym_bpm1i02WS_mean vs run
χ² / ndf 940.4 / 86
p0 −7303 ± 126.8
pull
Entries 87
Mean 2.352e+04
Std Dev 0

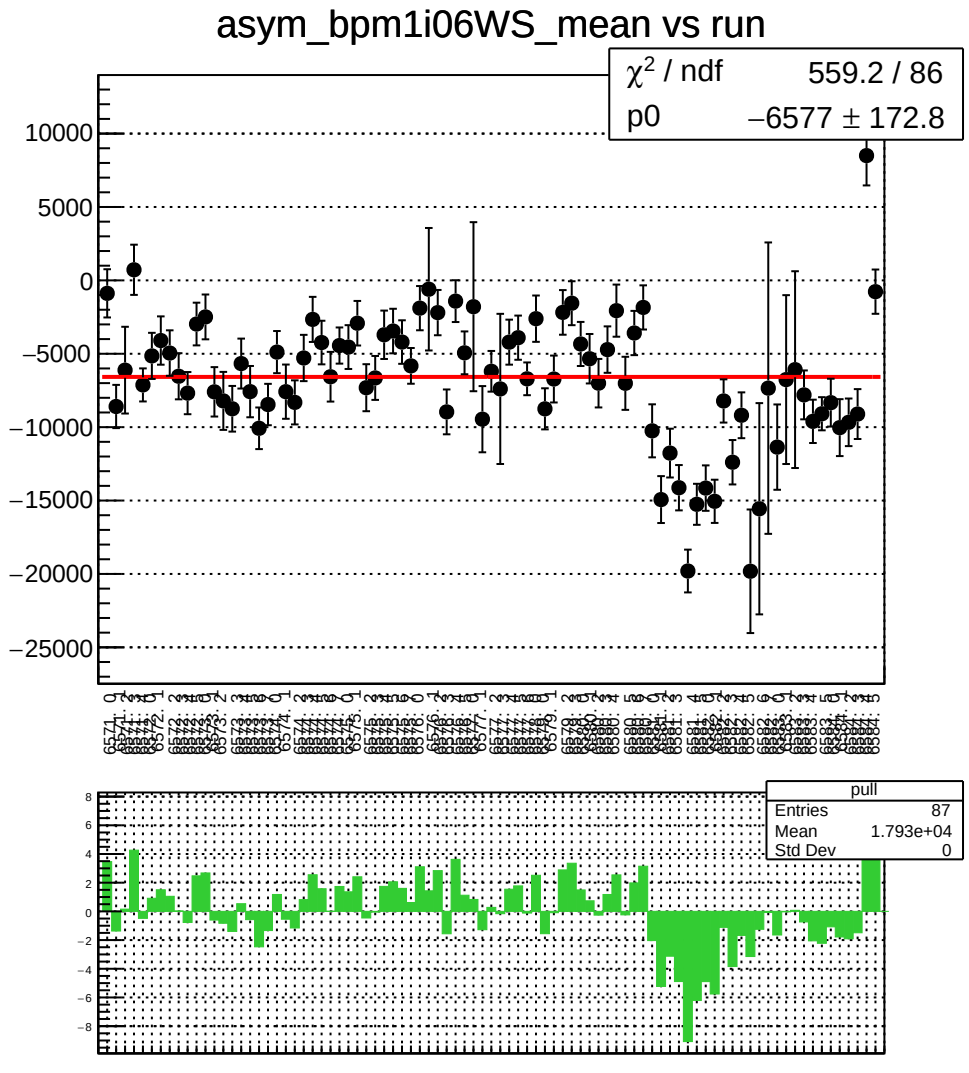

pull1D
Entries 87
Mean 0.2217
Std Dev 2.977

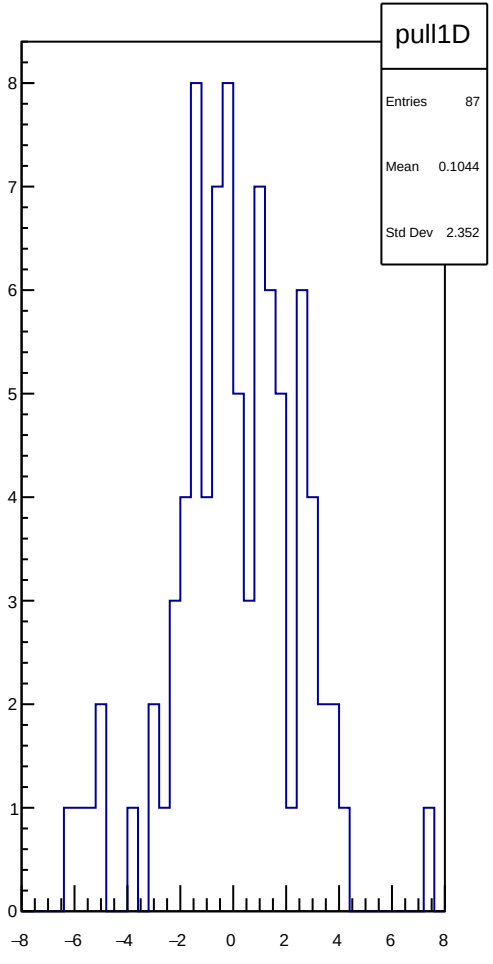

asym_bpm1i02WS_rms vs run
χ² / ndf 1.432e+05 / 86
p0 111.4 ± 0.08965
1200
1000
800
600
400
200

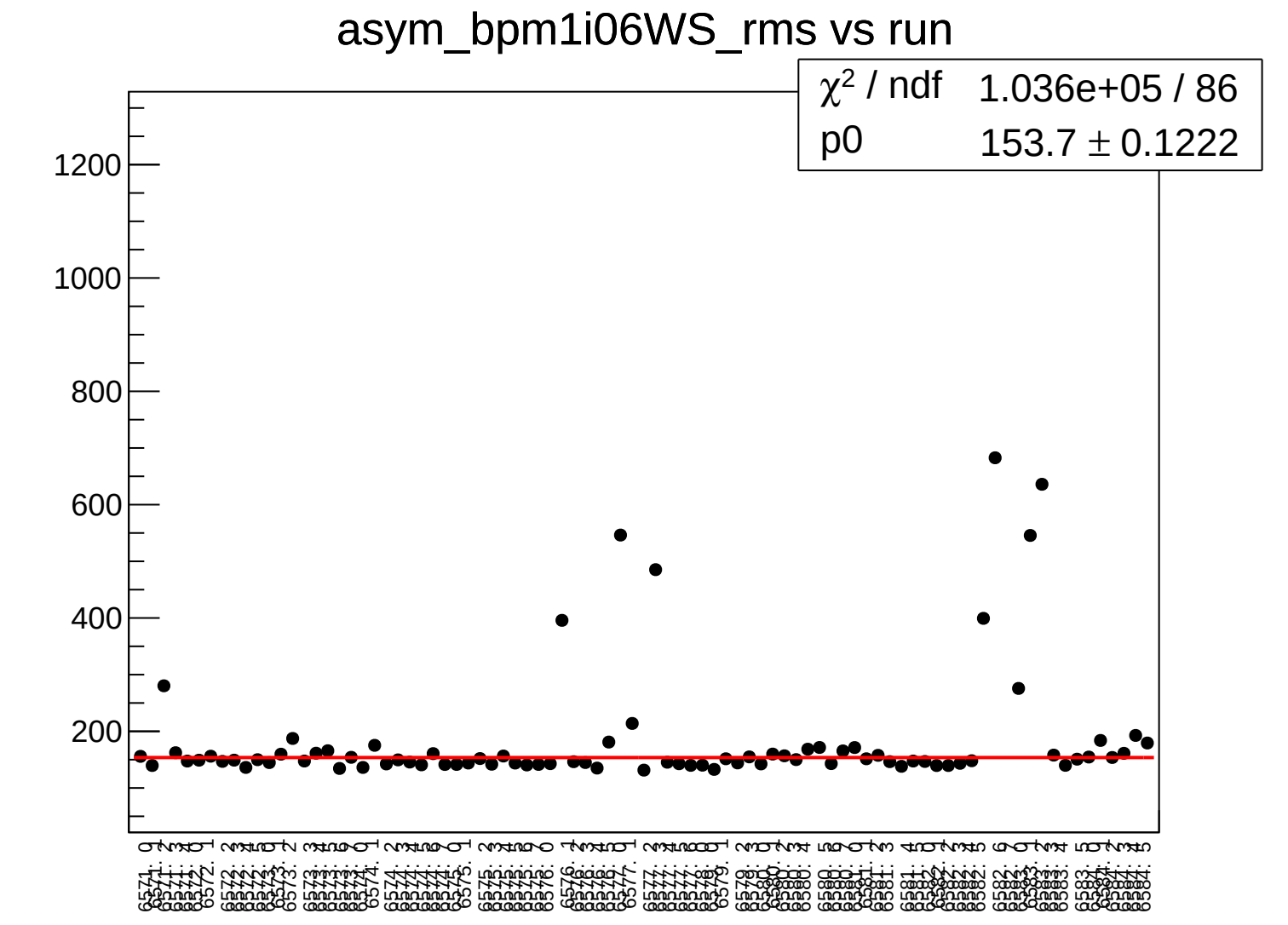

asym_bpm1i04WS_mean vs run
χ² / ndf 1168 / 86
p0 −7497 ± 113.6
pull
Entries 87
Mean −3672
Std Dev 0

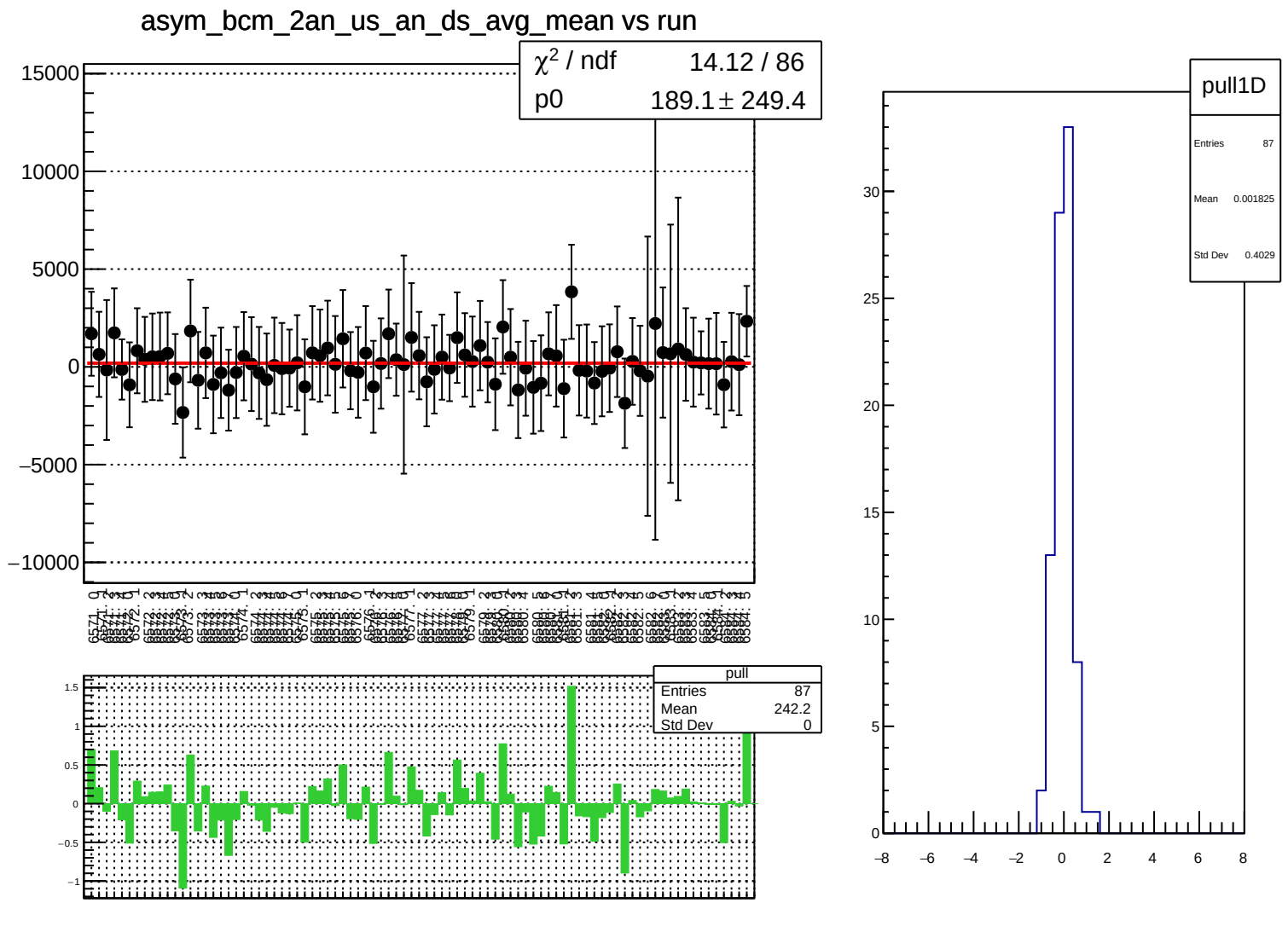

pull1D
Entries 87
Mean 0.3804
Std Dev 2.93

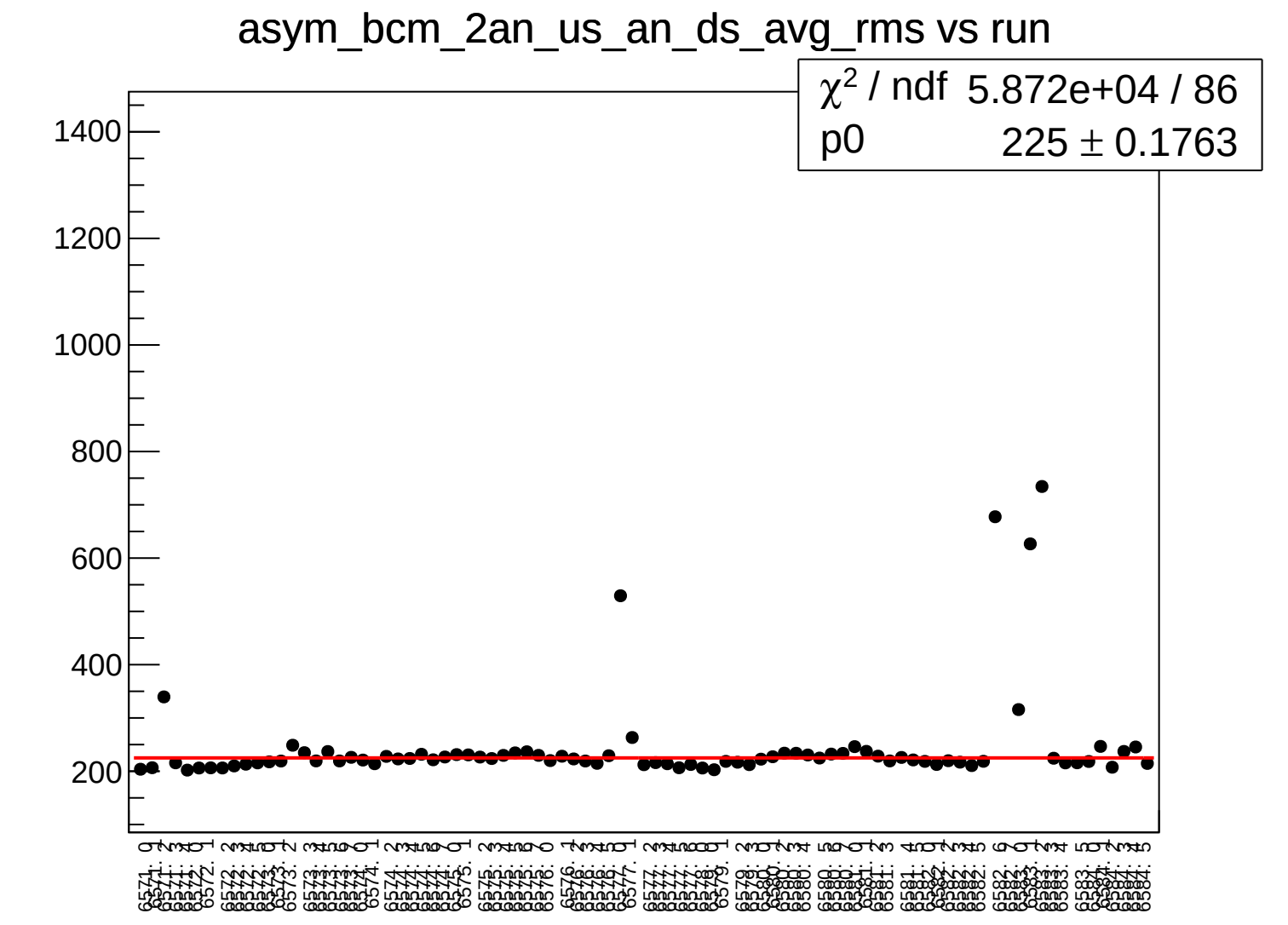

asym_bpm1i04WS_rms vs run
χ² / ndf 1.54e+05 / 86
p0 99.43 ± 0.08031
1200
1000
800
600
400
200

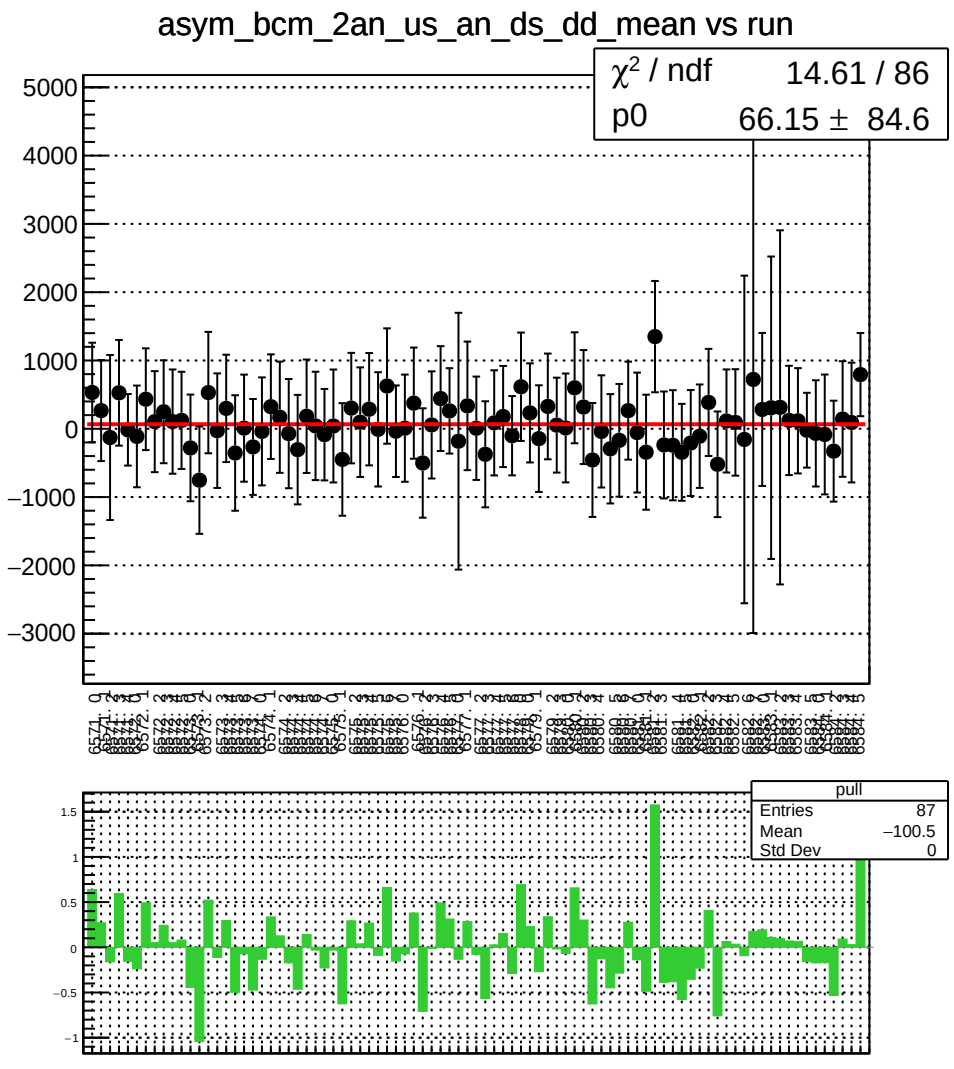

asym_bpm1i06WS_mean vs run
χ² / ndf 559.2 / 86
p0 −6577 ± 172.8
pull
Entries 87
Mean 1.793e+04
Std Dev 0

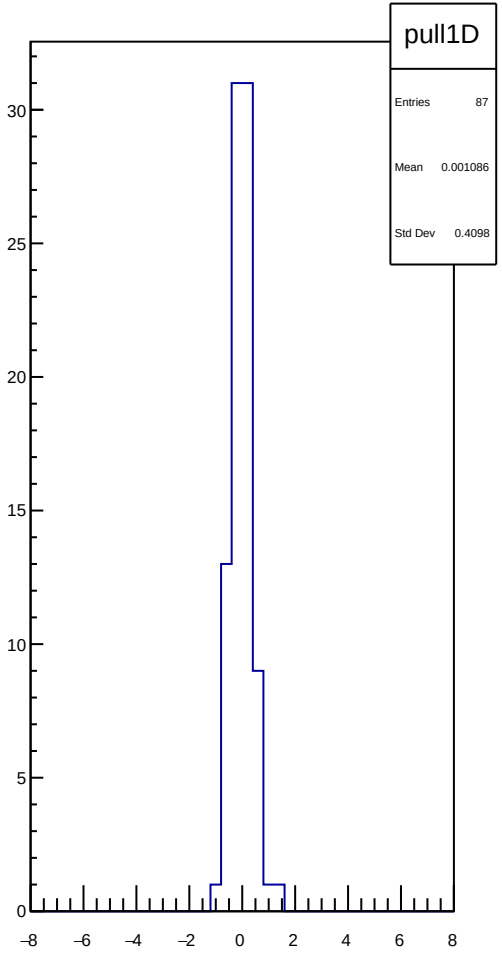

pull1D
Entries 87
Mean 0.1044
Std Dev 2.352

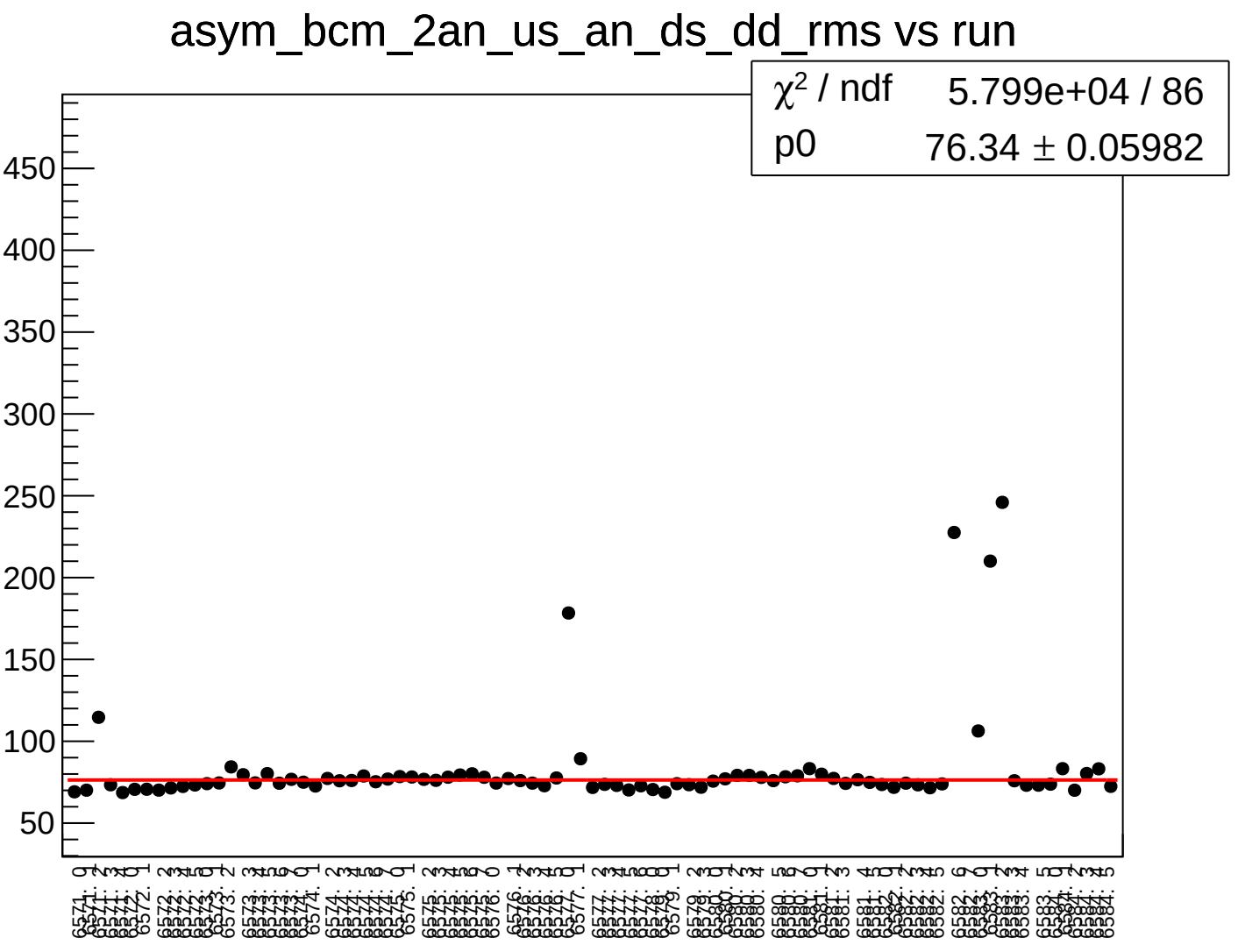

asym_bpm1i06WS_rms vs run
χ² / ndf 1.036e+05 / 86
p0 153.7 ± 0.1222
1200
1000
800
600
400
200

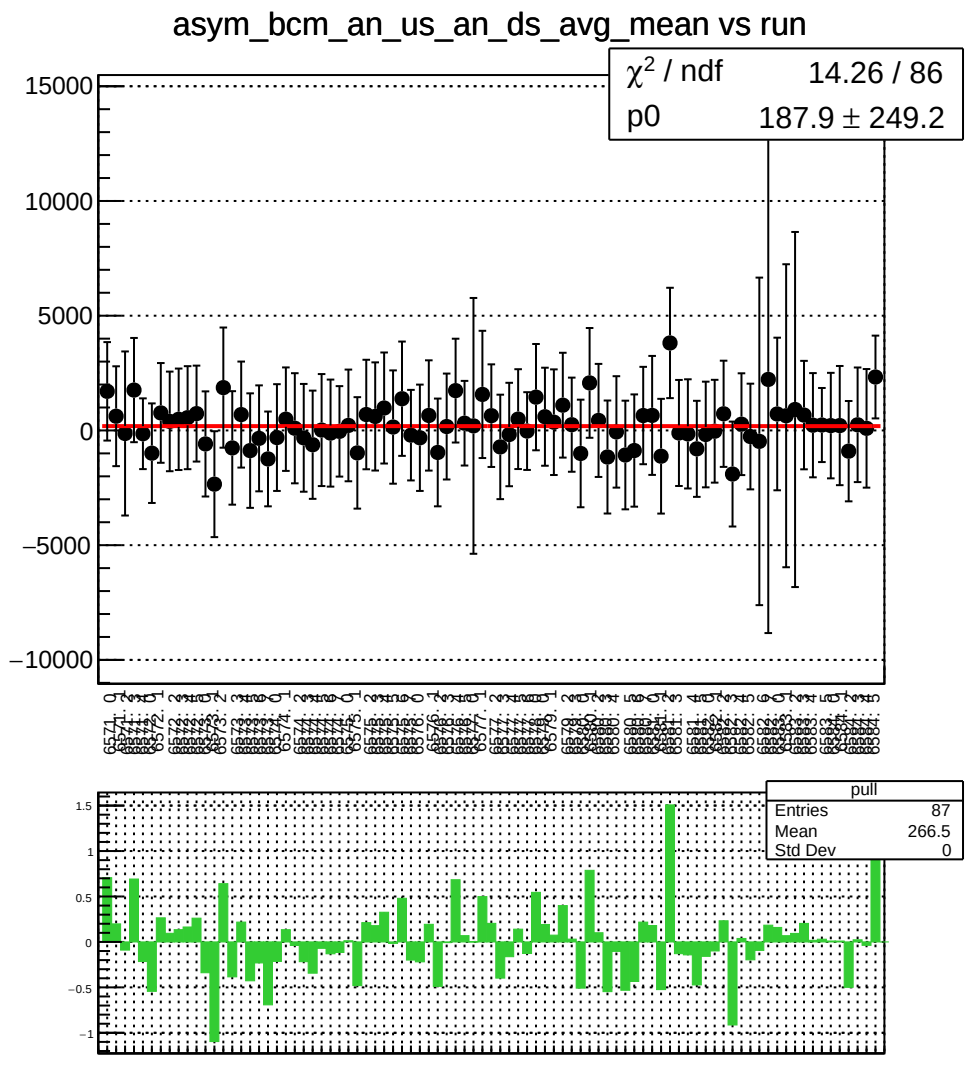

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 14.12 / 86
p0 189.1 ± 249.4
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 242.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.001825
Std Dev 0.4029
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

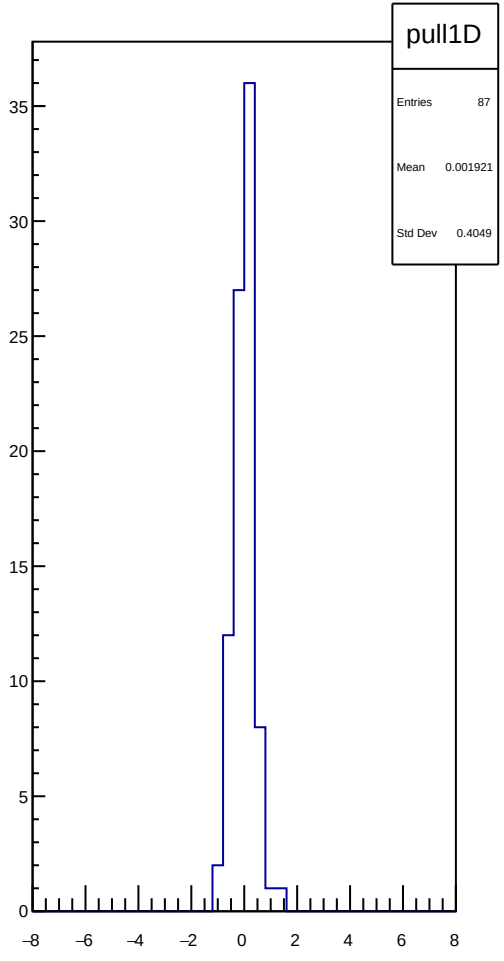

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 5.872e+04 / 86
p0 225 ± 0.1763
1400
1200
1000
800
600
400
200

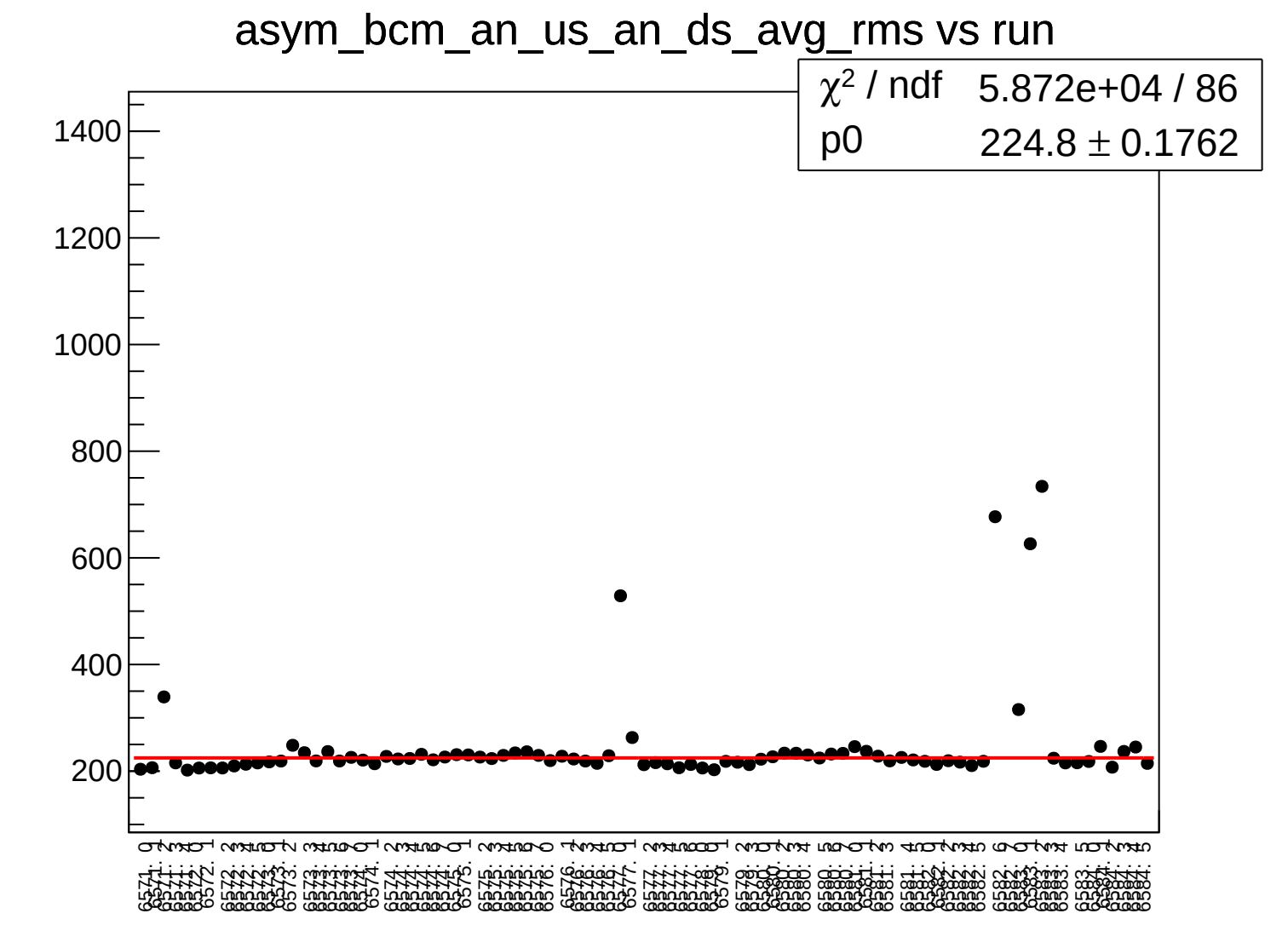

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 14.61 / 86
p0 66.15 ± 84.6
pull
Entries 87
Mean −100.5
Std Dev 0

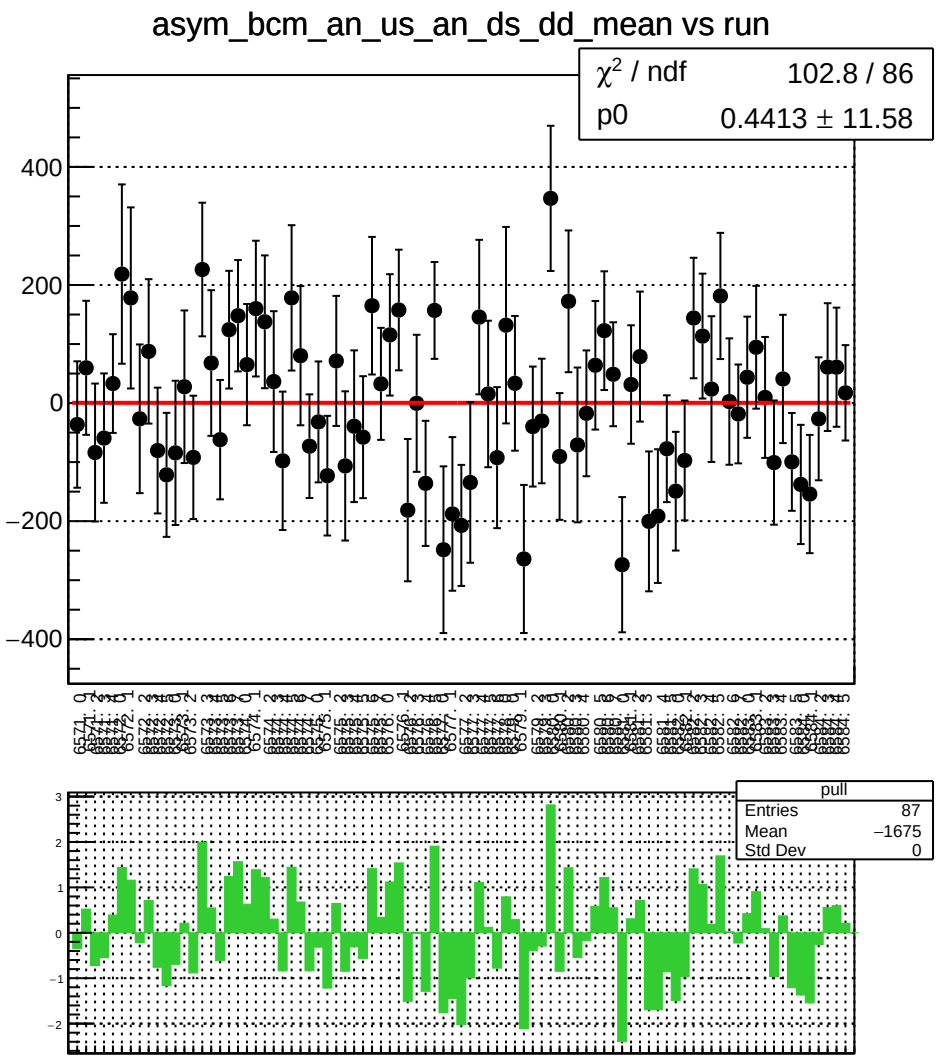

pull1D
Entries 87
Mean 0.001086
Std Dev 0.4098

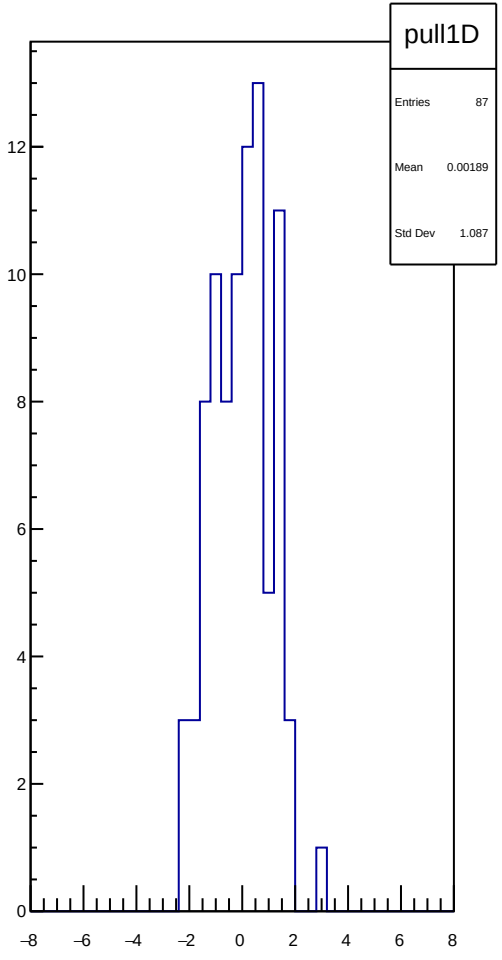

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 5.799e+04 / 86
p0 76.34 ± 0.05982
450
400
350
300
250
200
150
100
50

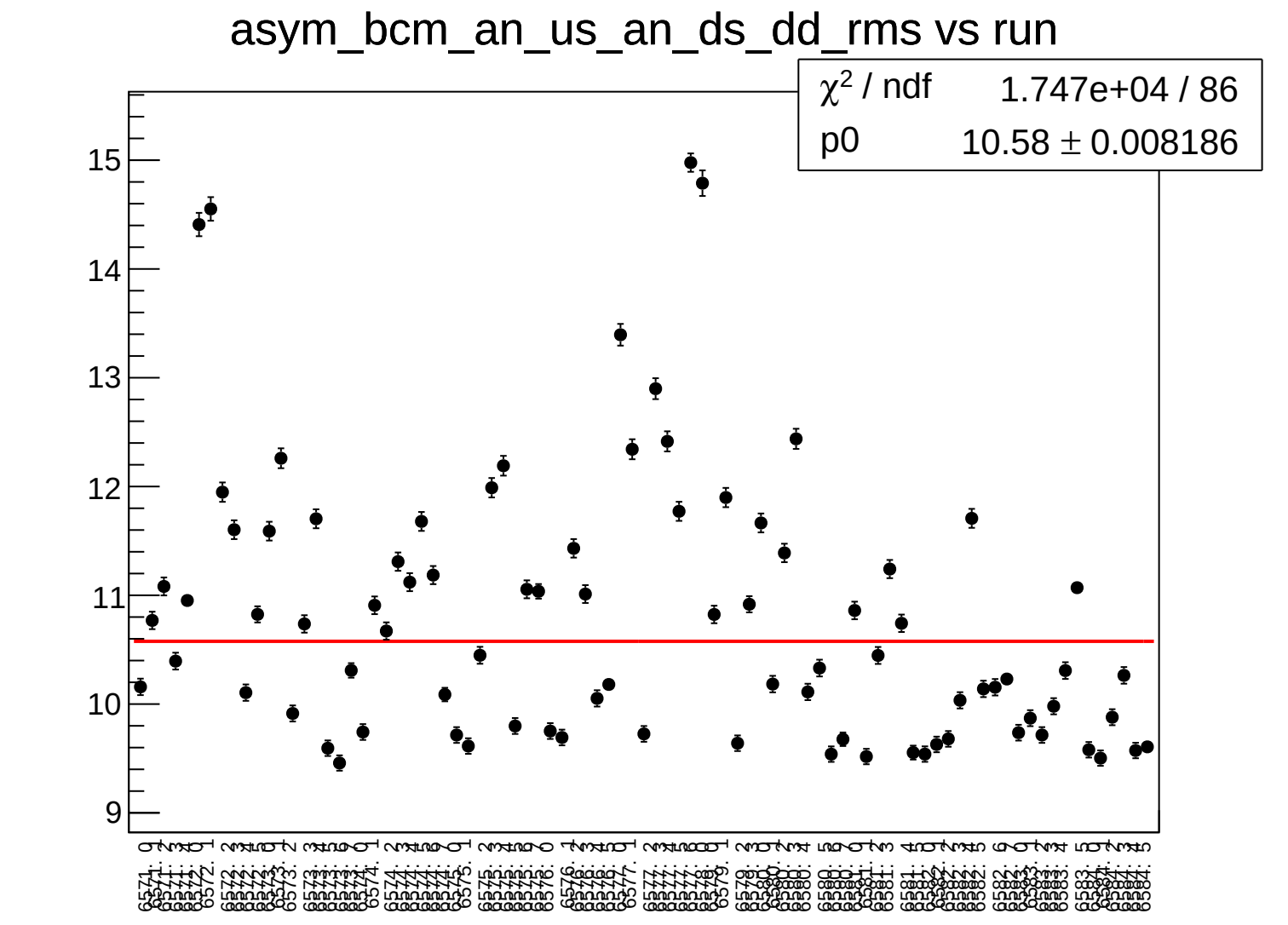

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 14.26 / 86
p0 187.9 ± 249.2
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 266.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

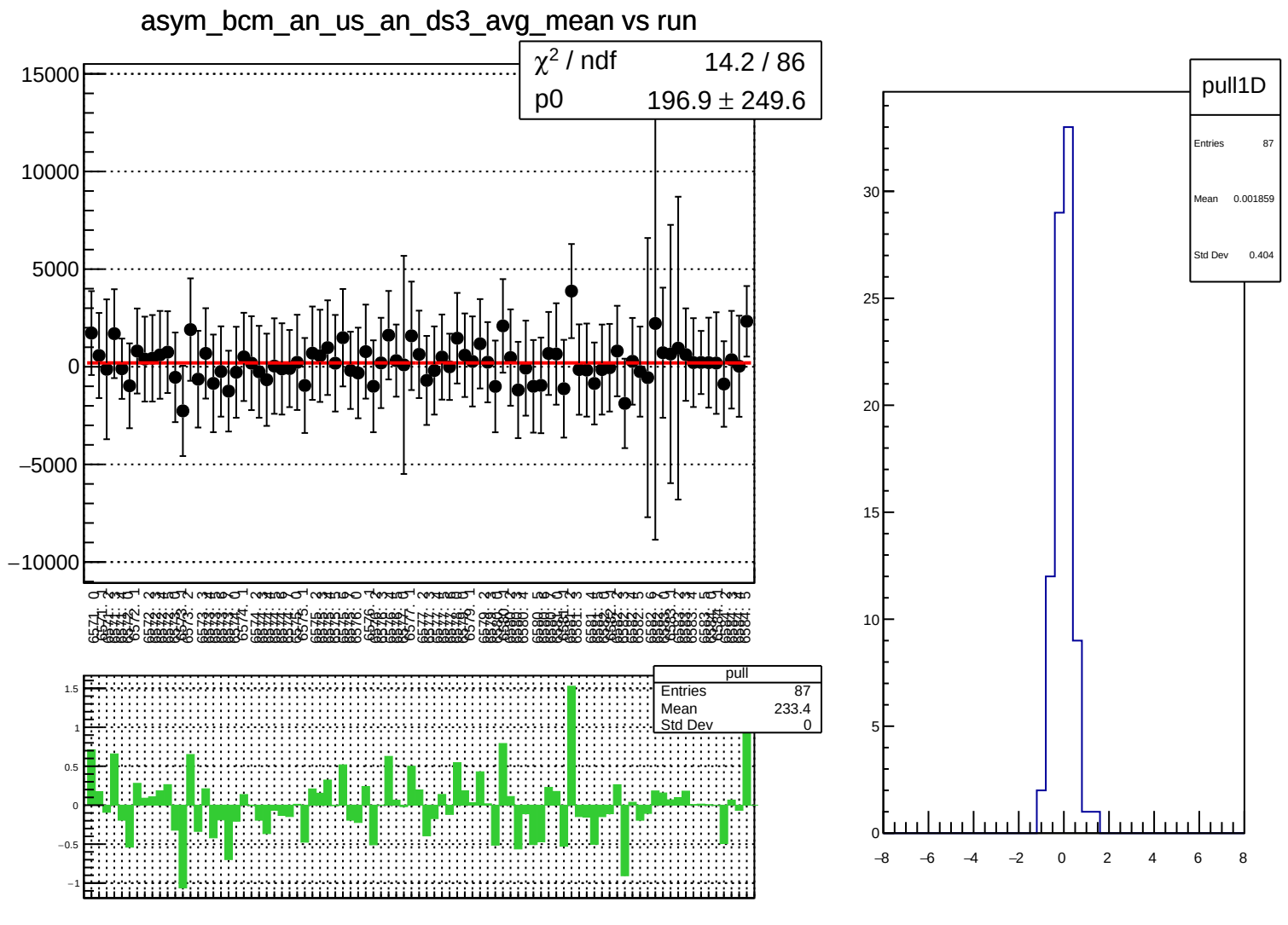

pull1D
Entries 87
Mean 0.001921
Std Dev 0.4049
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

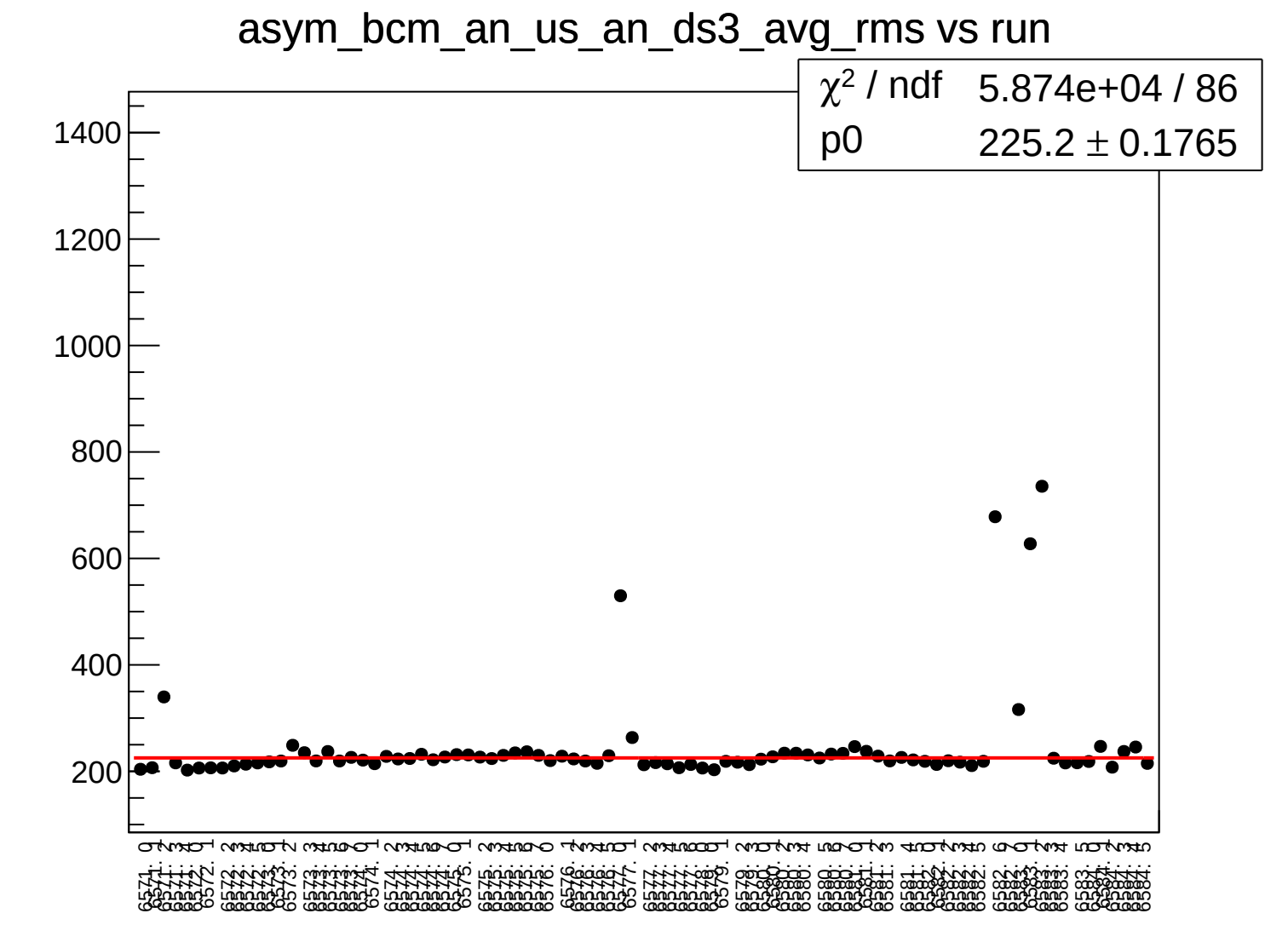

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 5.872e+04 / 86
p0 224.8 ± 0.1762
1400
1200
1000
800
600
400
200

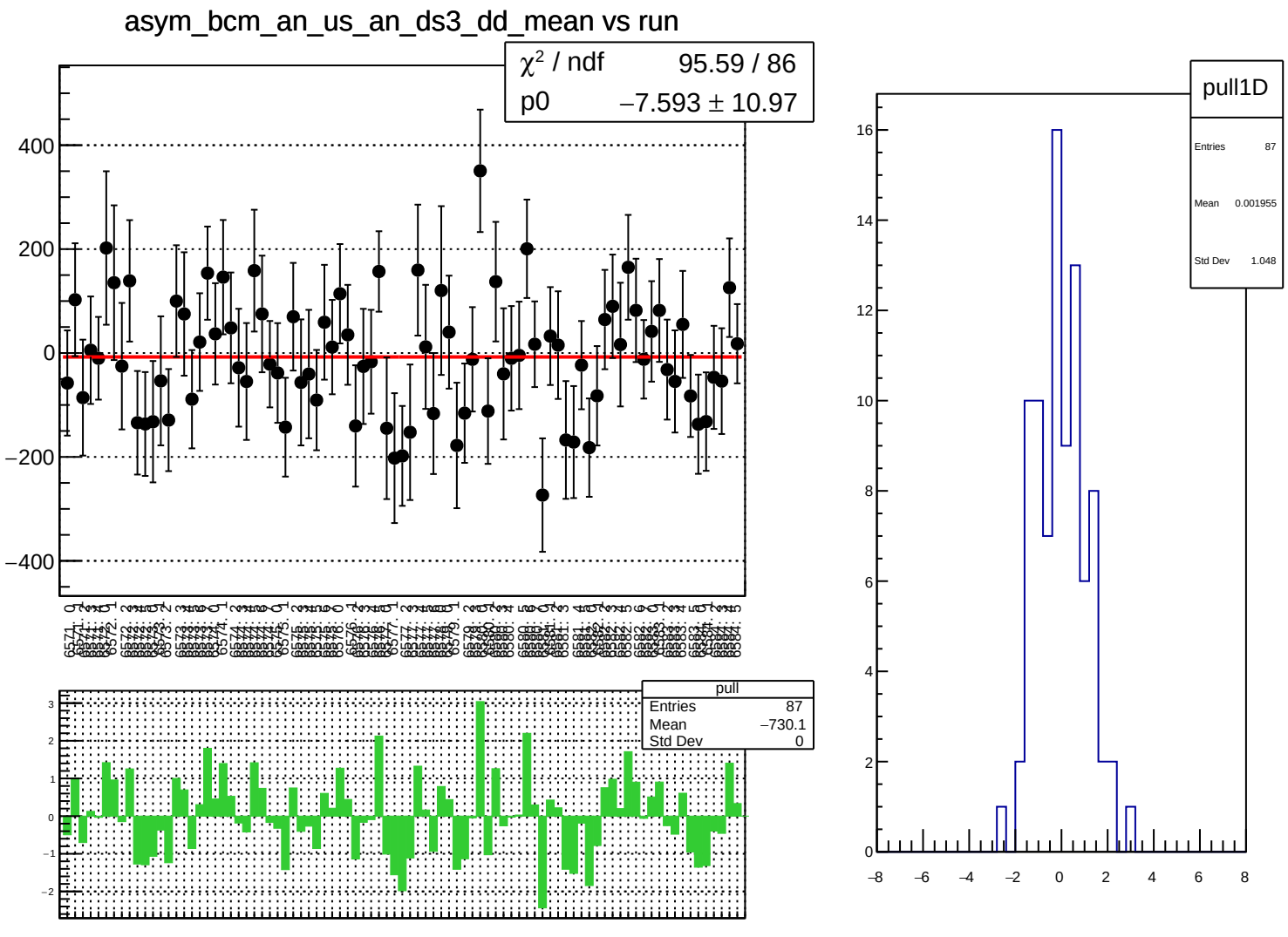

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 102.8 / 86
p0 0.4413 ± 11.58
400
200
0
−200
−400
pull
Entries 87
Mean −1675
Std Dev 0
3
2
1
0
−1
−2

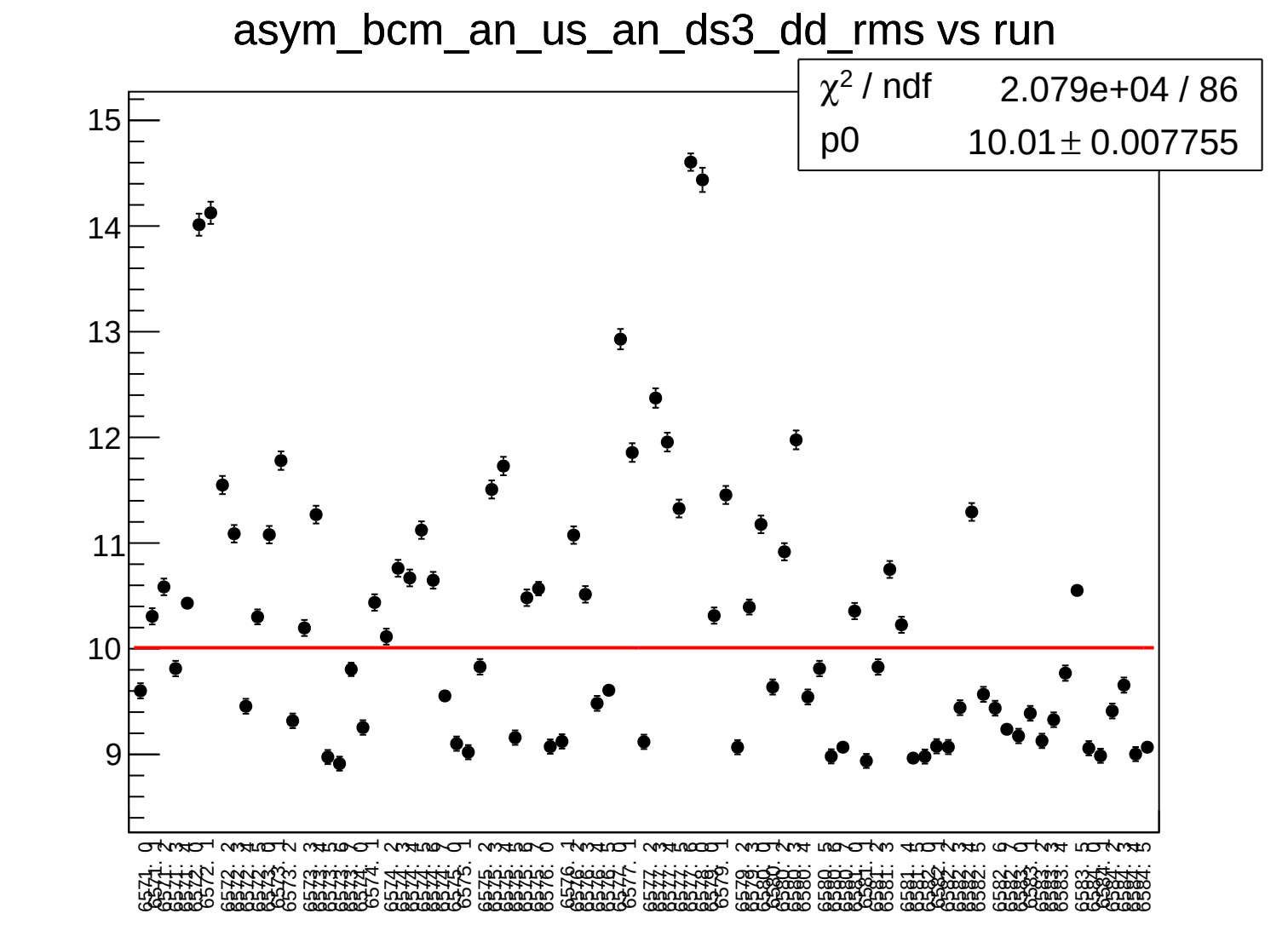

pull1D
Entries 87
Mean 0.00189
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

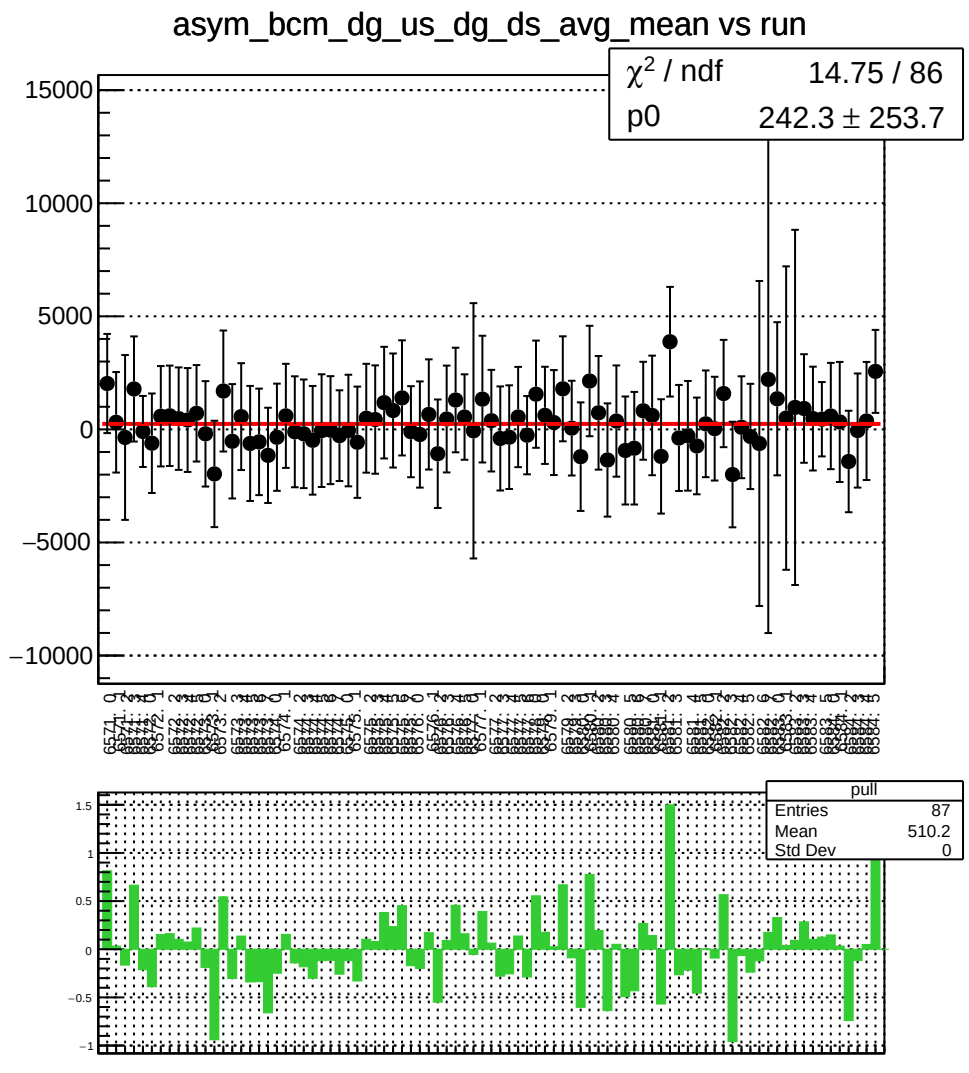

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.747e+04 / 86
p0 10.58 ± 0.008186
15
14
13
12
11
10
9

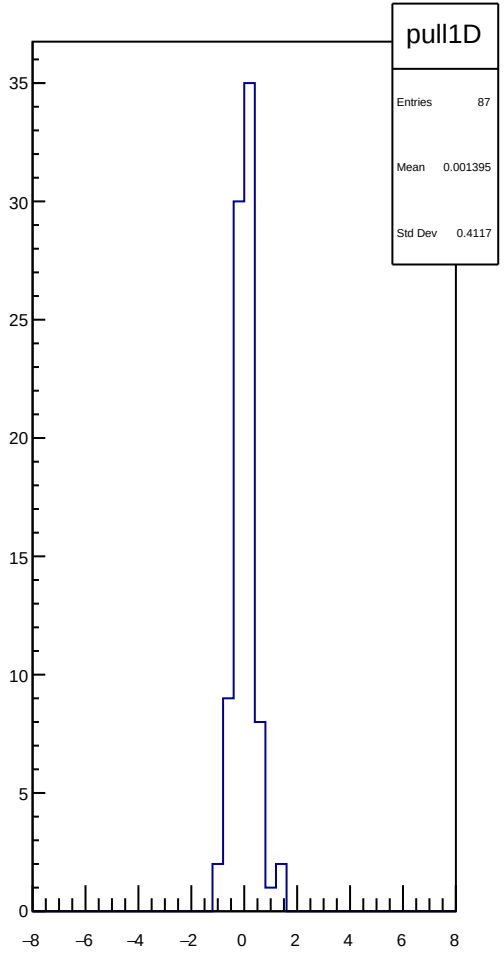

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 14.2 / 86
p0 196.9 ± 249.6
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 233.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.001859
Std Dev 0.404
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

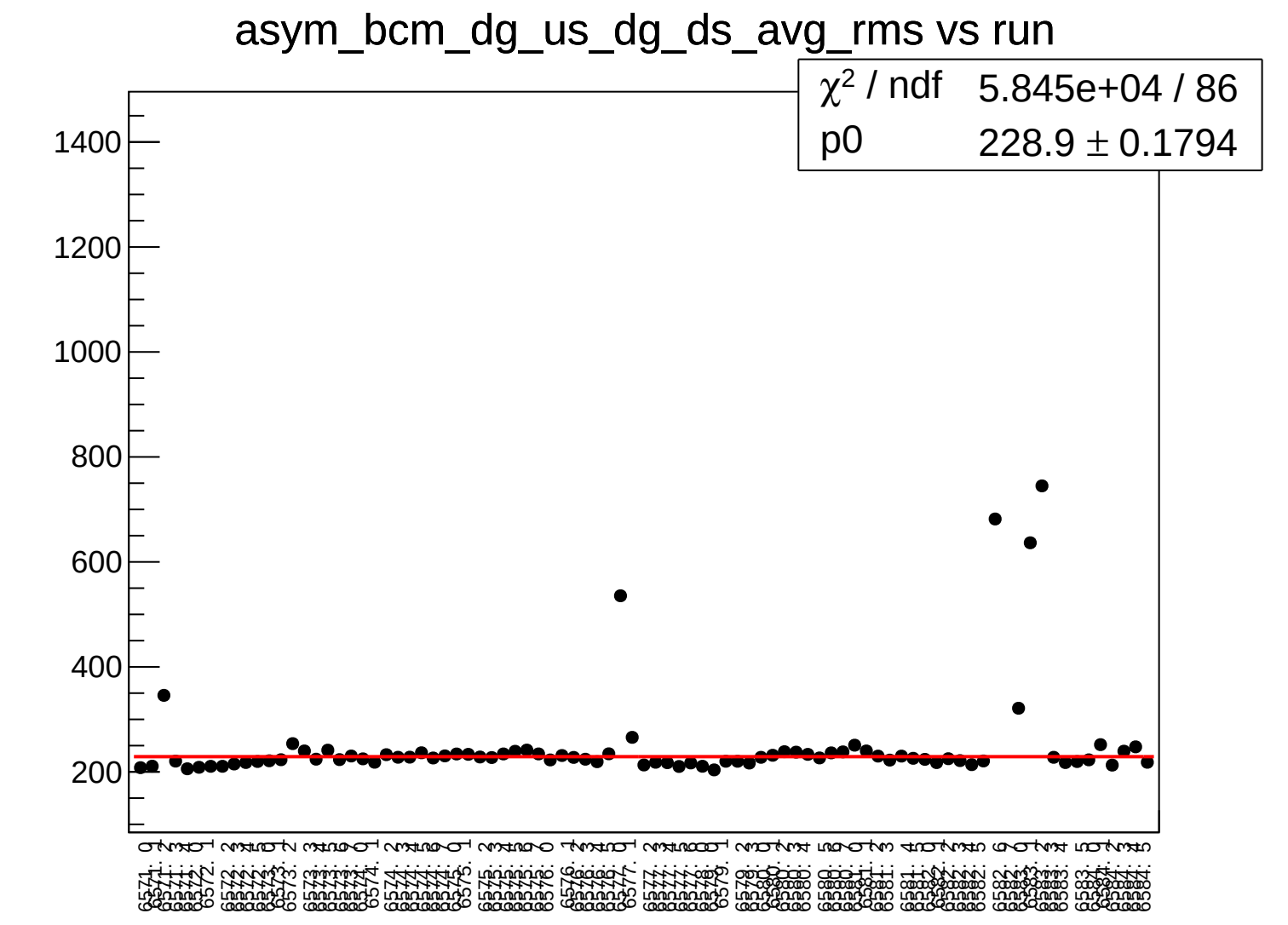

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 5.874e+04 / 86
p0 225.2 ± 0.1765
1400
1200
1000
800
600
400
200

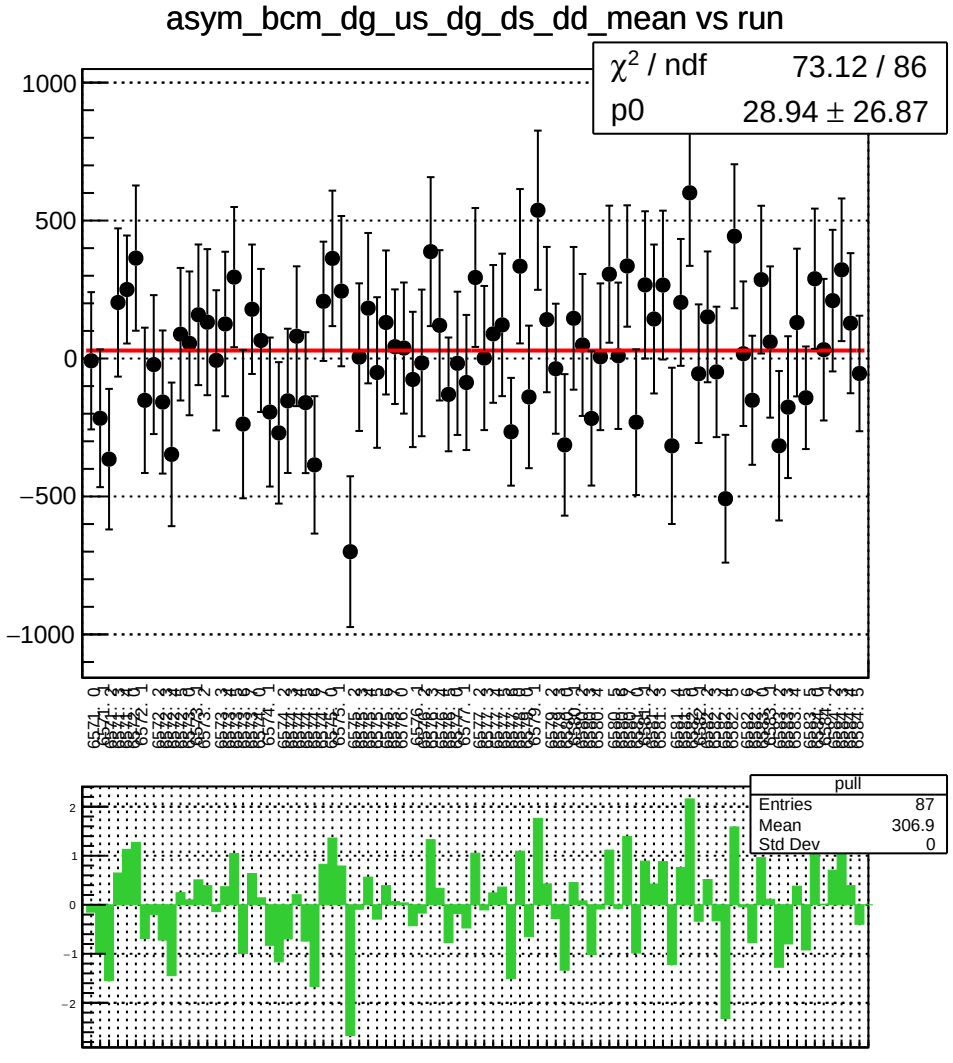

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 95.59 / 86
p0 −7.593 ± 10.97
400
200
0
−200
−400
pull
Entries 87
Mean −730.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.001955
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

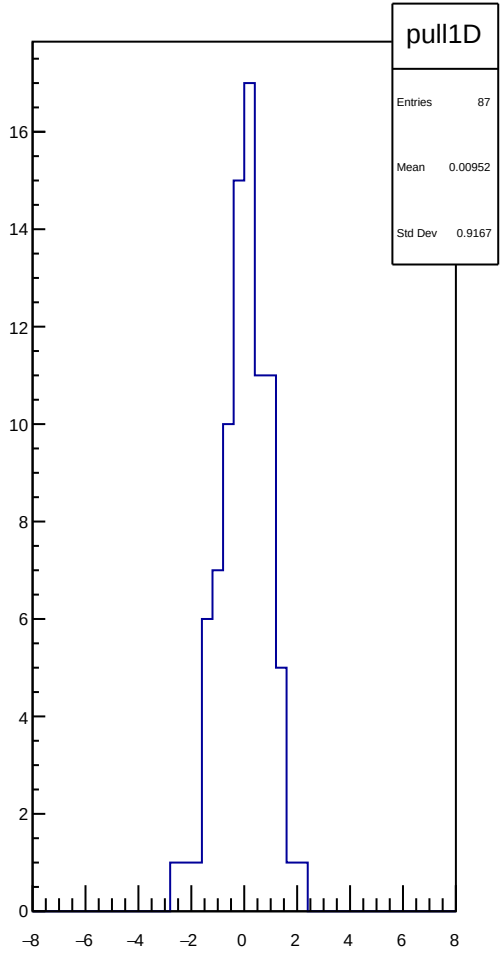

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 2.079e+04 / 86
p0 10.01 ± 0.007755
15
14
13
12
11
10
9

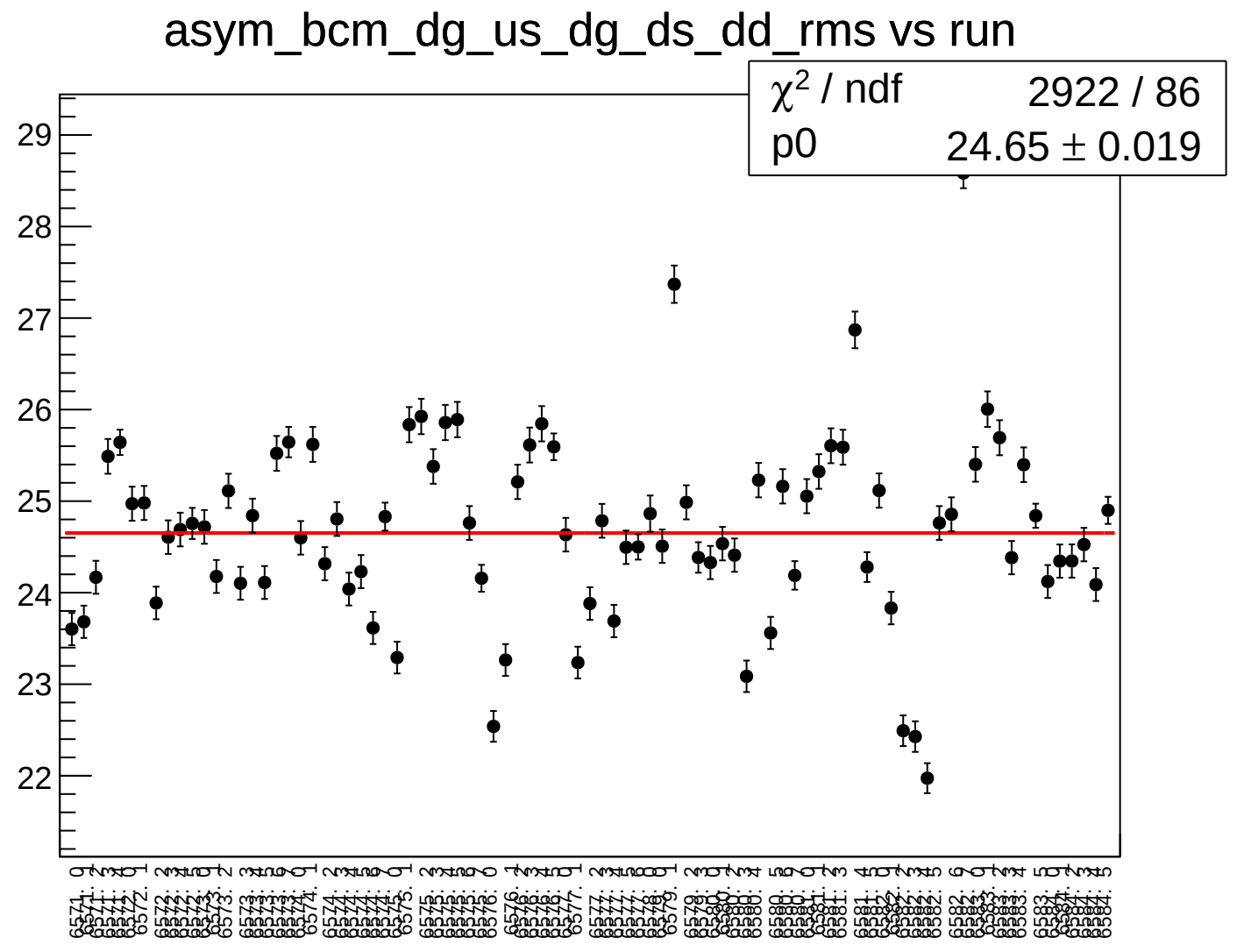

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 14.75 / 86
p0 242.3 ± 253.7
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 510.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

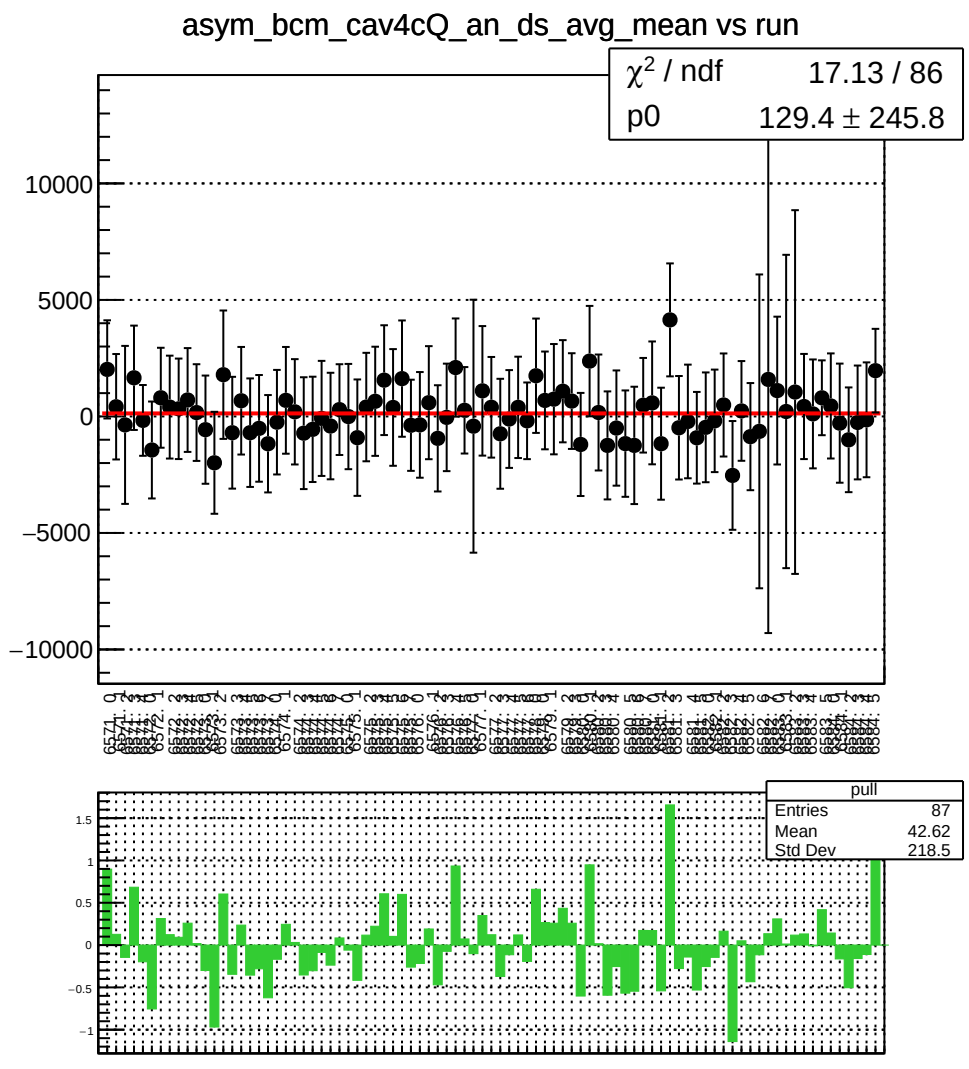

pull1D
Entries 87
Mean 0.001395
Std Dev 0.4117
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

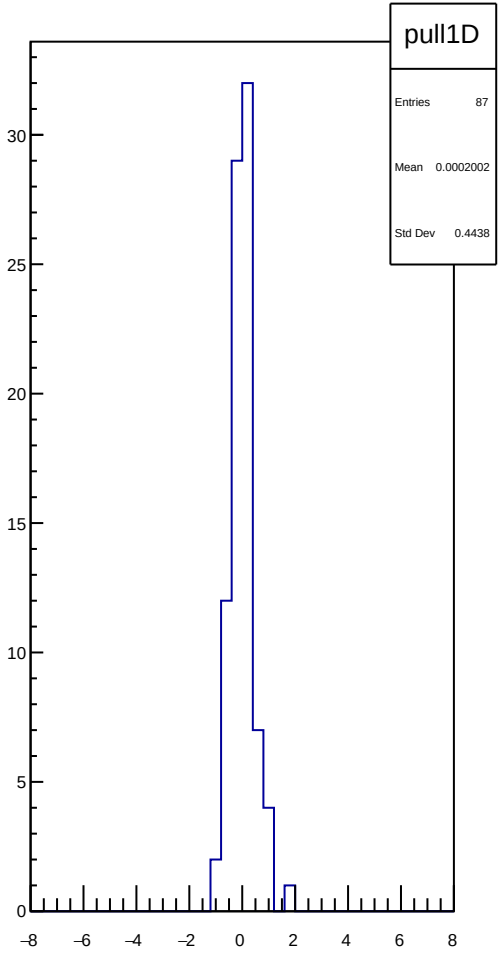

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 5.845e+04 / 86
p0 228.9 ± 0.1794
1400
1200
1000
800
600
400
200

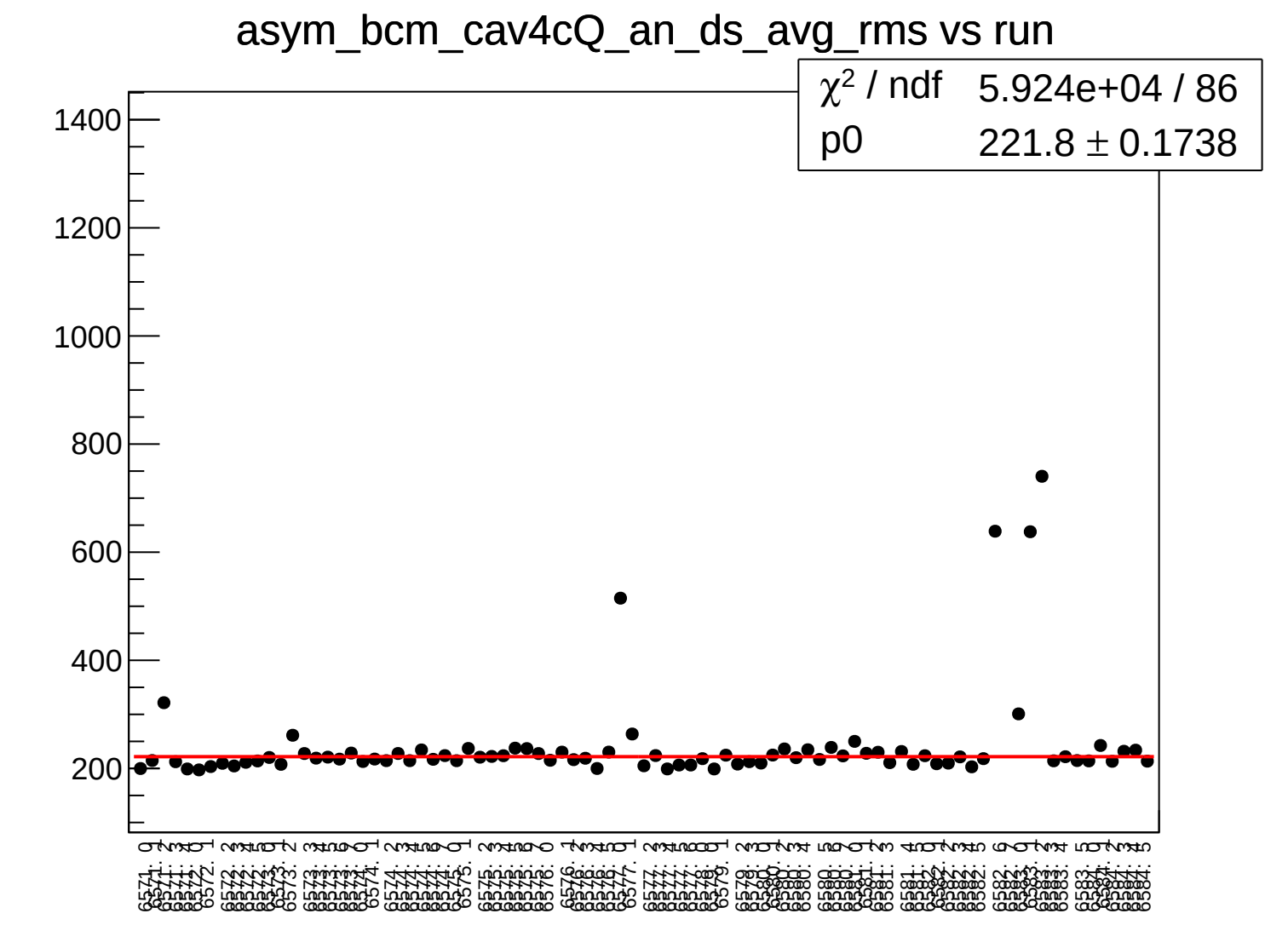

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 73.12 / 86
p0 28.94 ± 26.87
1000
500
0
−500
−1000
pull
Entries 87
Mean 306.9
Std Dev 0
2
1
0
−1
−2

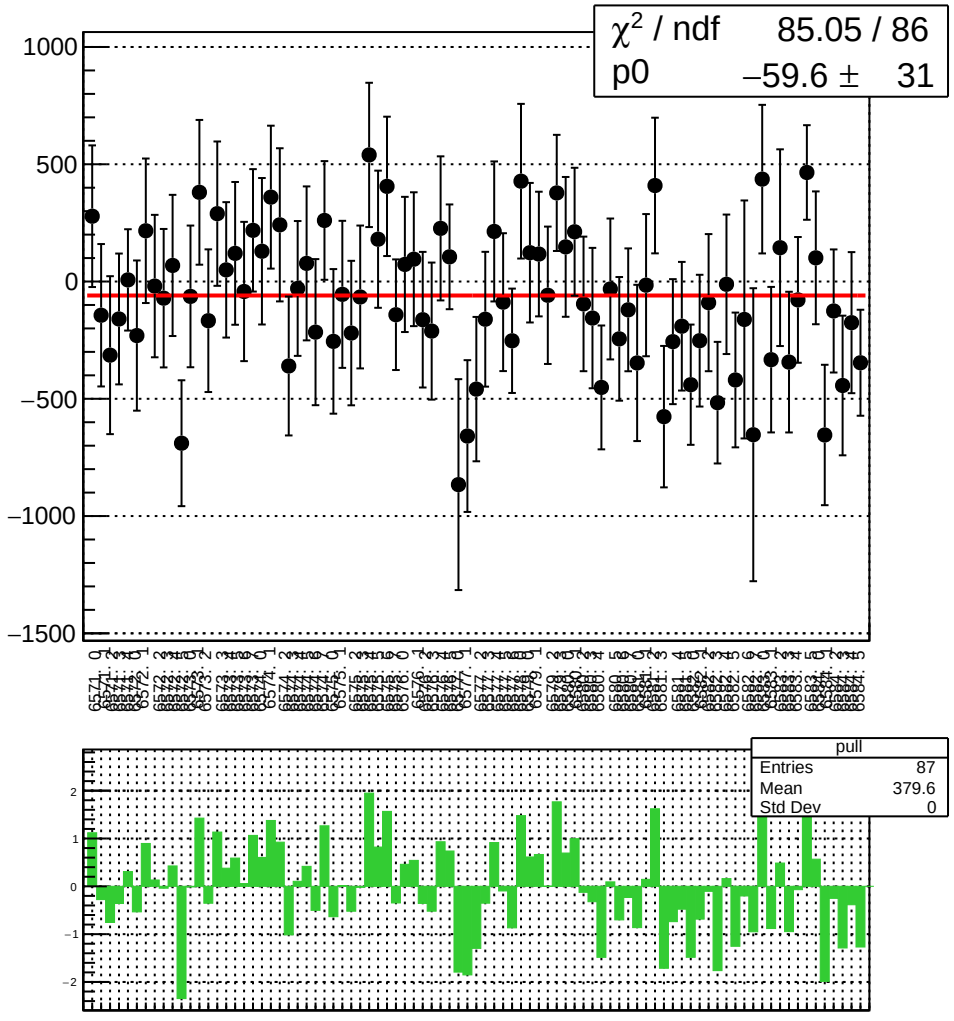

pull1D
Entries 87
Mean 0.00952
Std Dev 0.9167
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

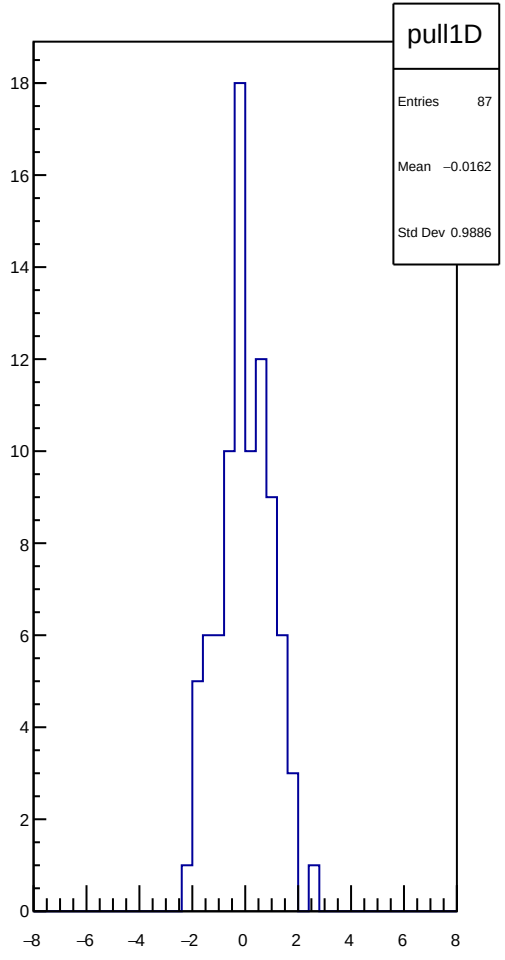

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2922 / 86
p0 24.65 ± 0.019
29
28
27
26
25
24
23
22

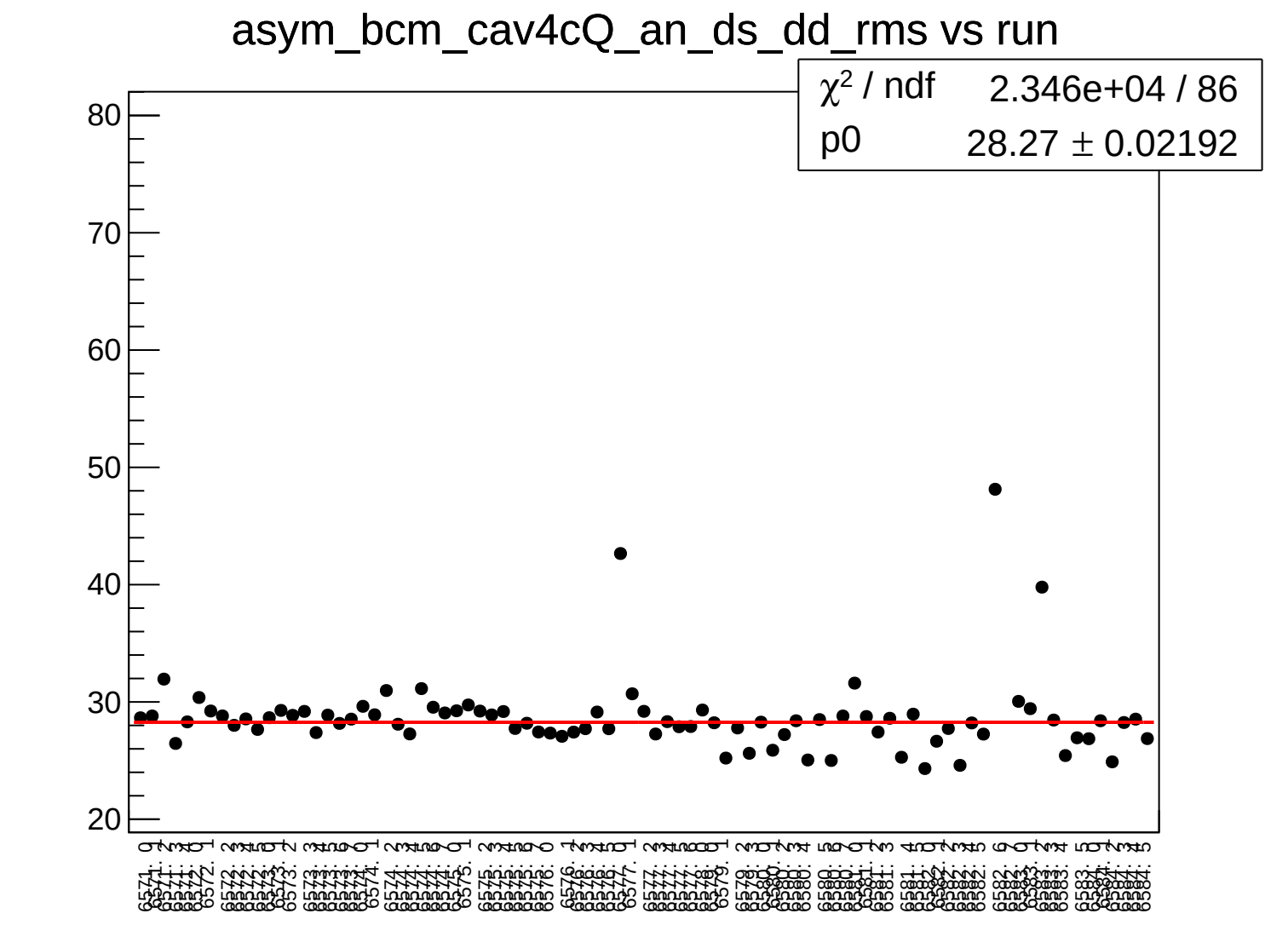

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 17.13 / 86
p0 129.4 ± 245.8
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 42.62
Std Dev 218.5
1.5
1
0.5
0
−0.5
−1

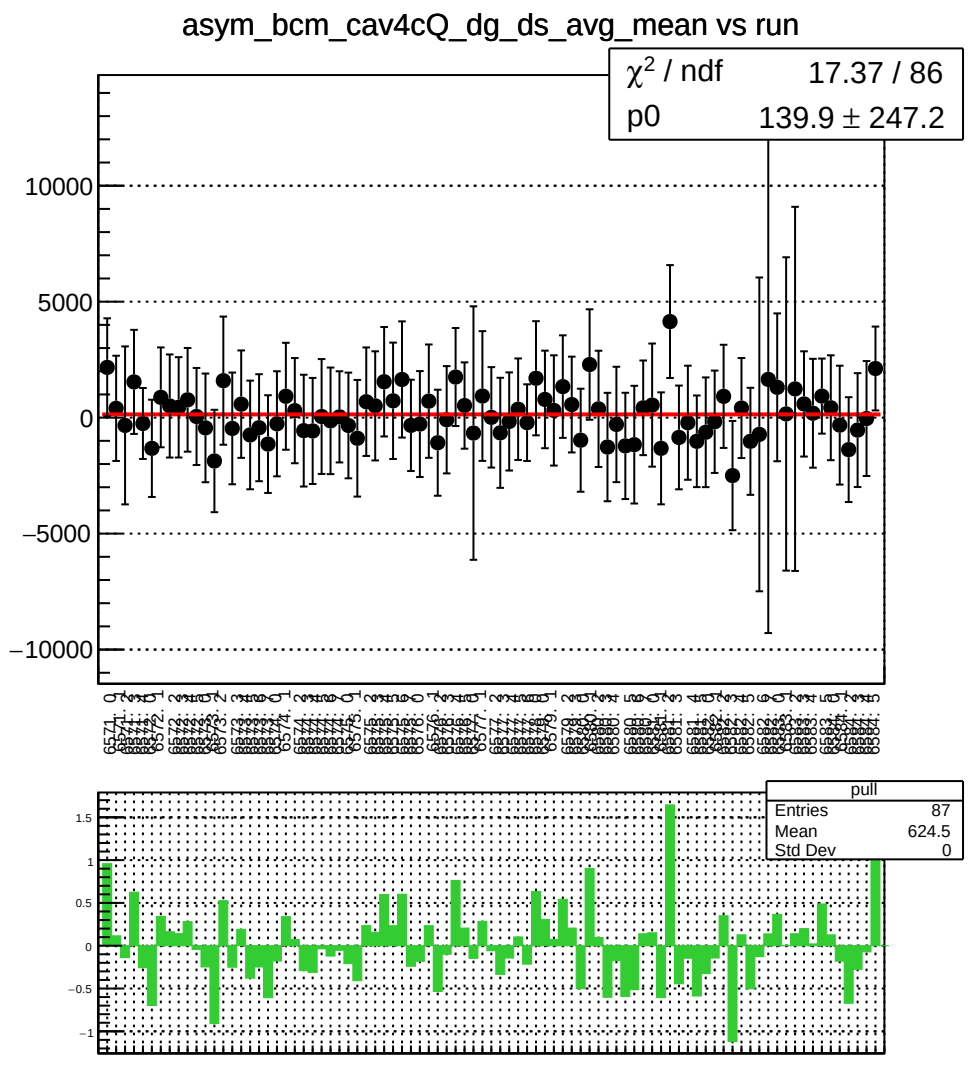

pull1D
Entries 87
Mean 0.0002002
Std Dev 0.4438
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

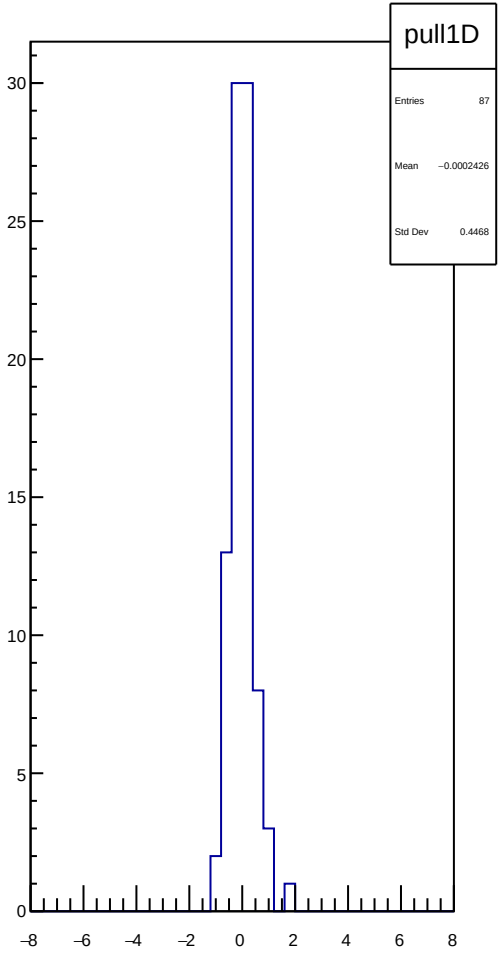

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 5.924e+04 / 86
p0 221.8 ± 0.1738
1400
1200
1000
800
600
400
200

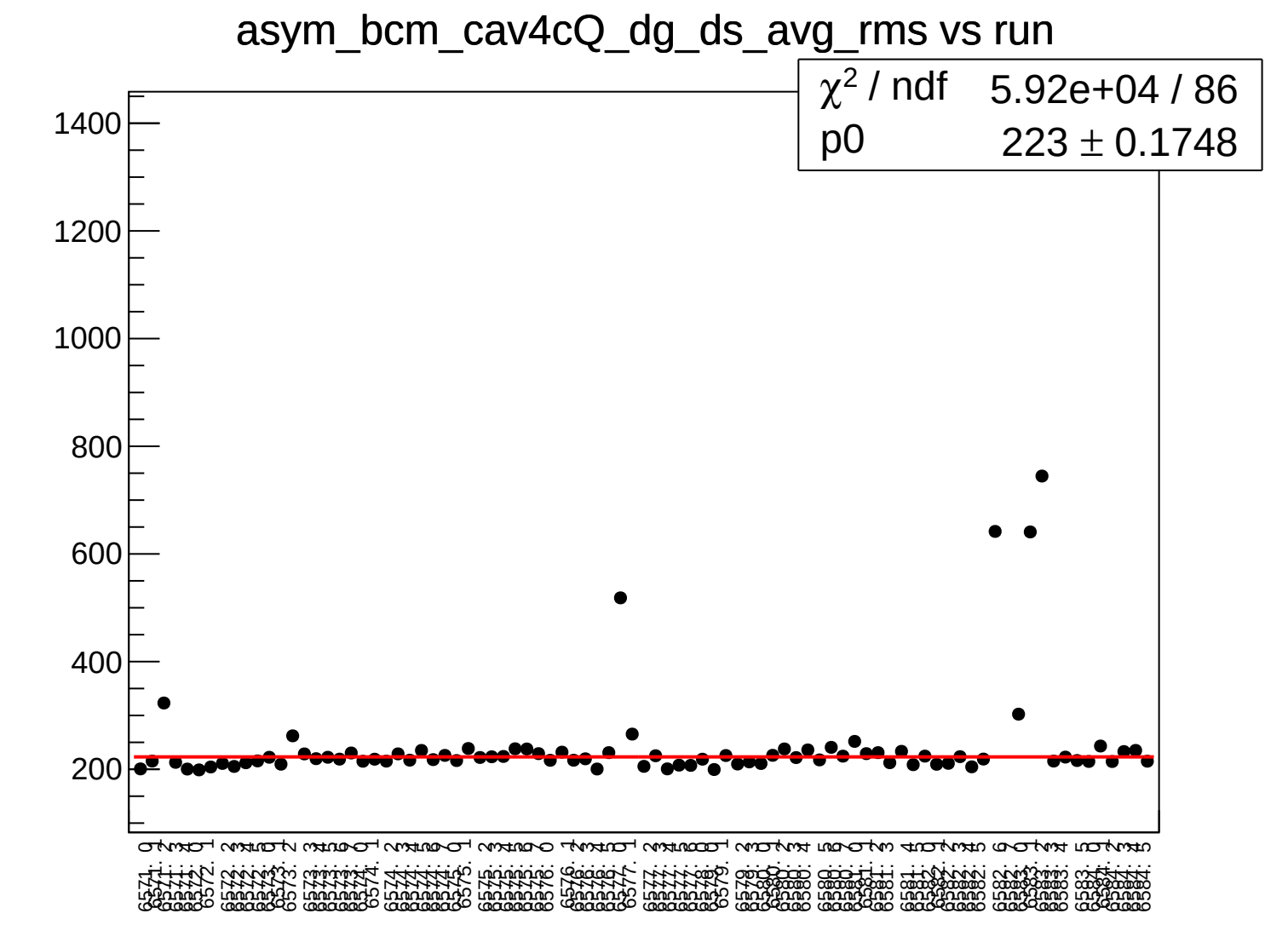

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 85.05 / 86
p0 −59.6 ± 31
pull
Entries 87
Mean 379.6
Std Dev 0

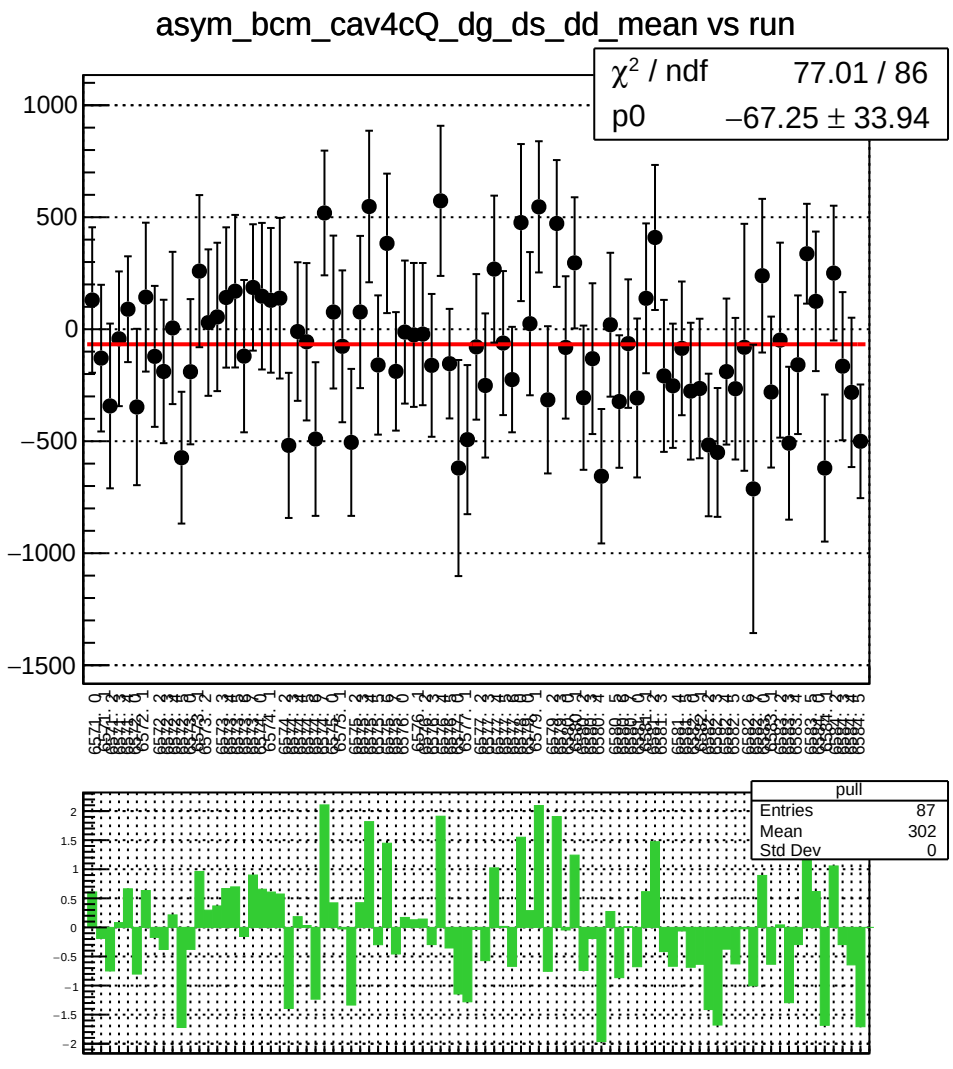

pull1D
Entries 87
Mean −0.0162
Std Dev 0.9886

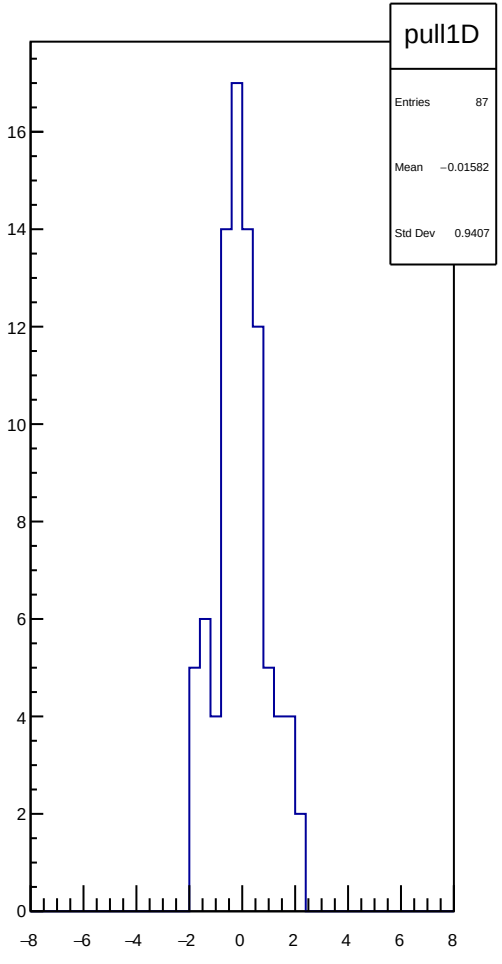

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2.346e+04 / 86
p0 28.27 ± 0.02192
80
70
60
50
40
30
20

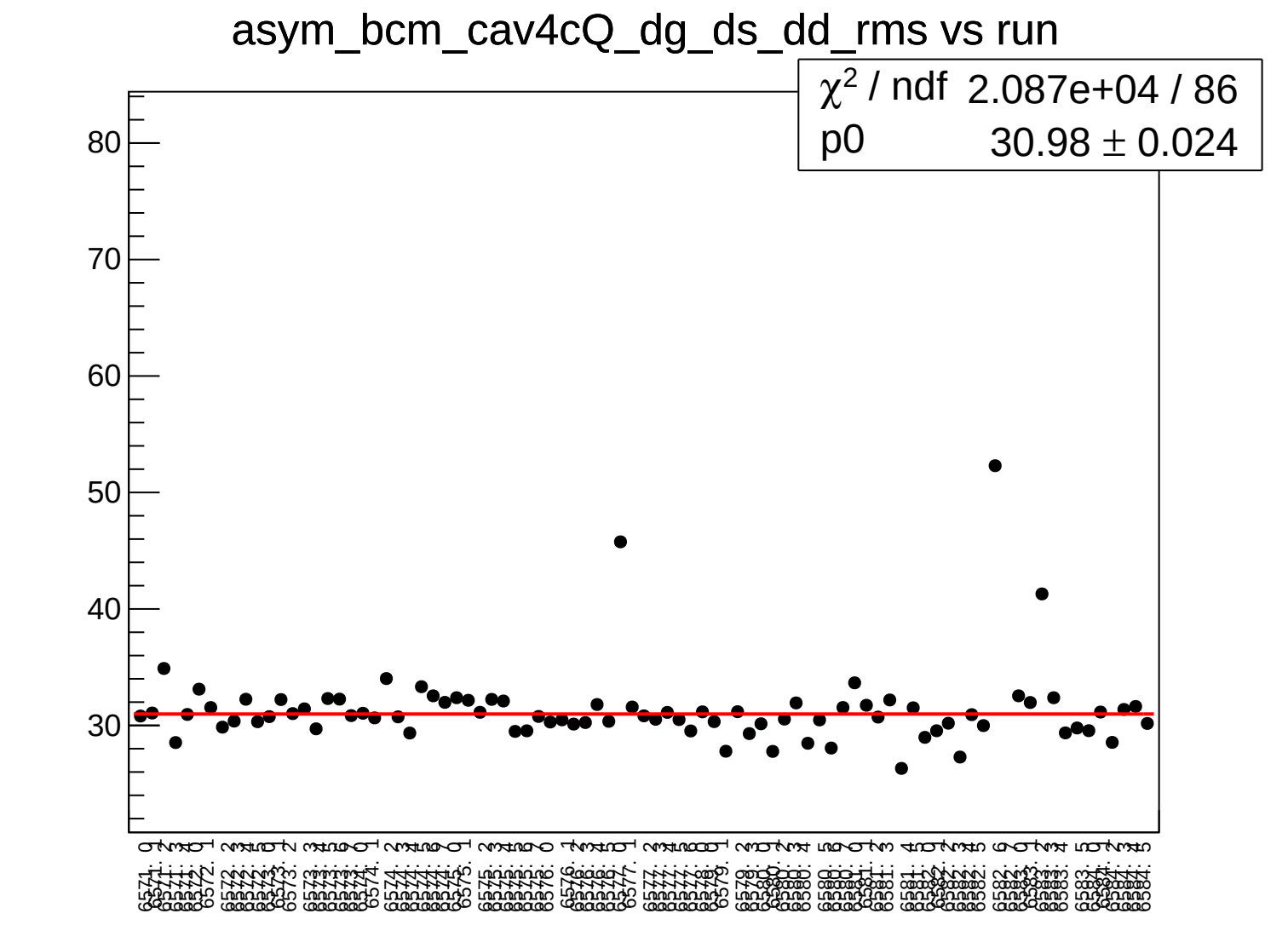

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 17.37 / 86
p0 139.9 ± 247.2
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 624.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

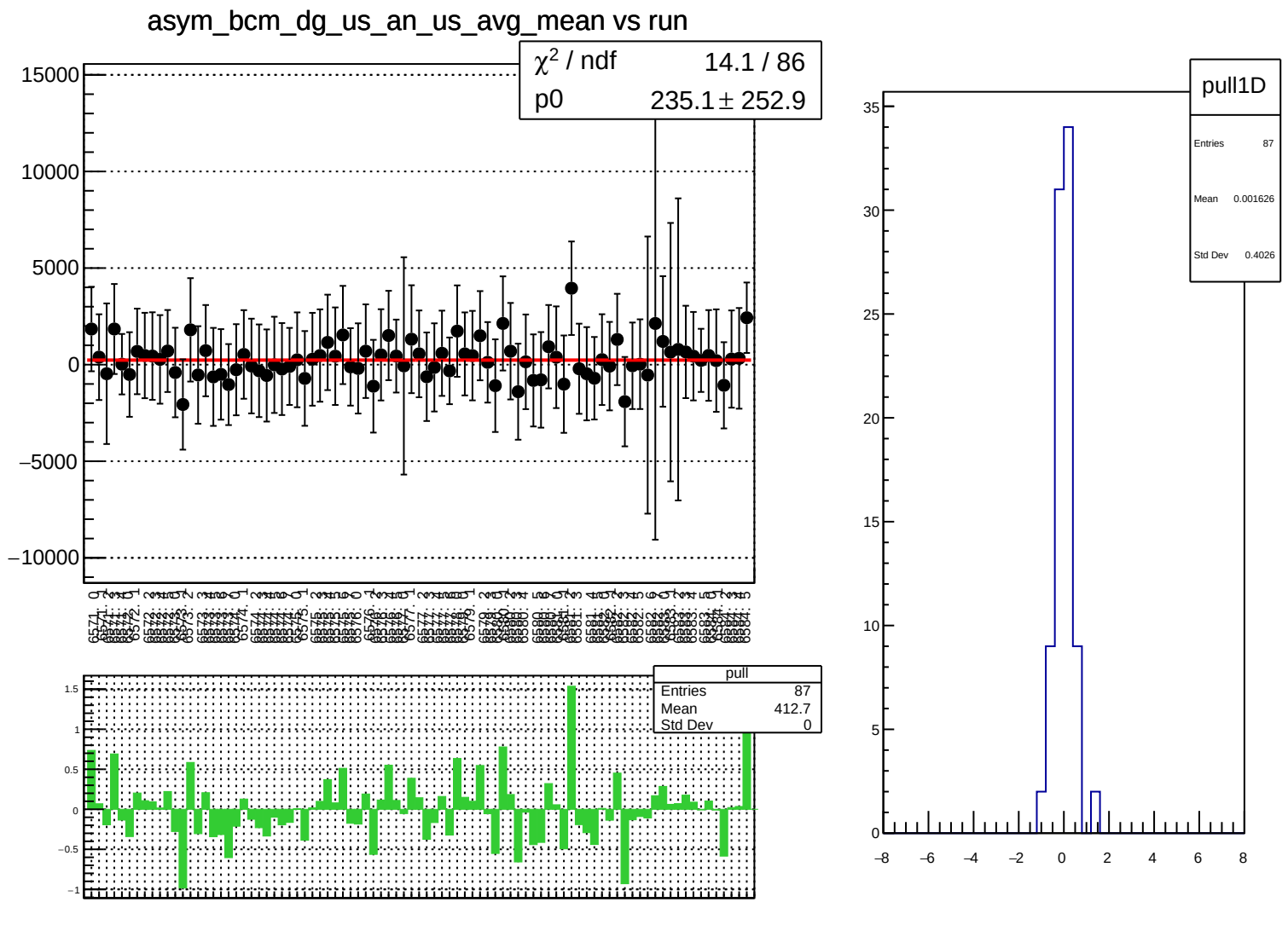

pull1D
Entries 87
Mean −0.0002426
Std Dev 0.4468
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

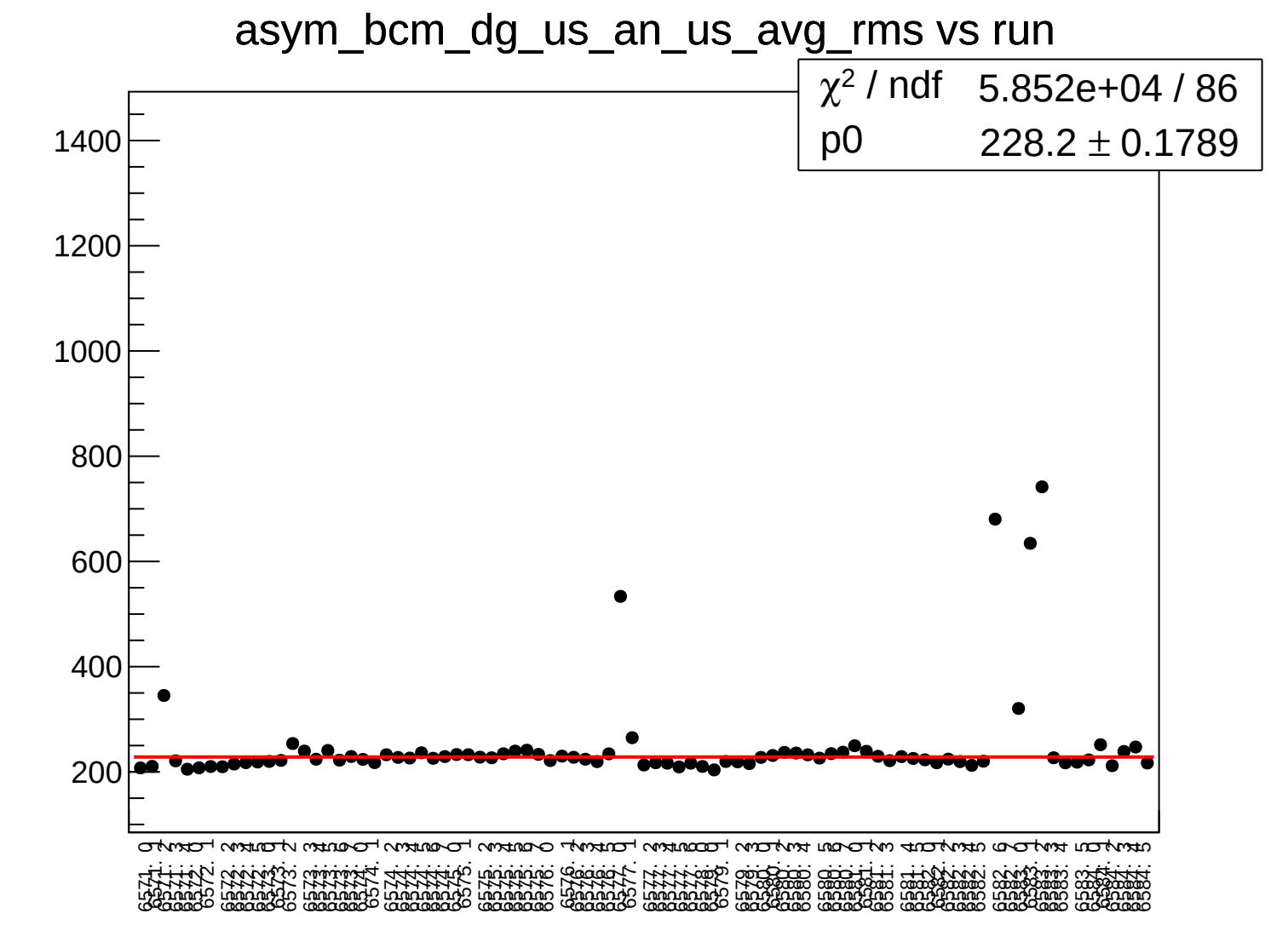

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 5.92e+04 / 86
p0 223 ± 0.1748
1400
1200
1000
800
600
400
200

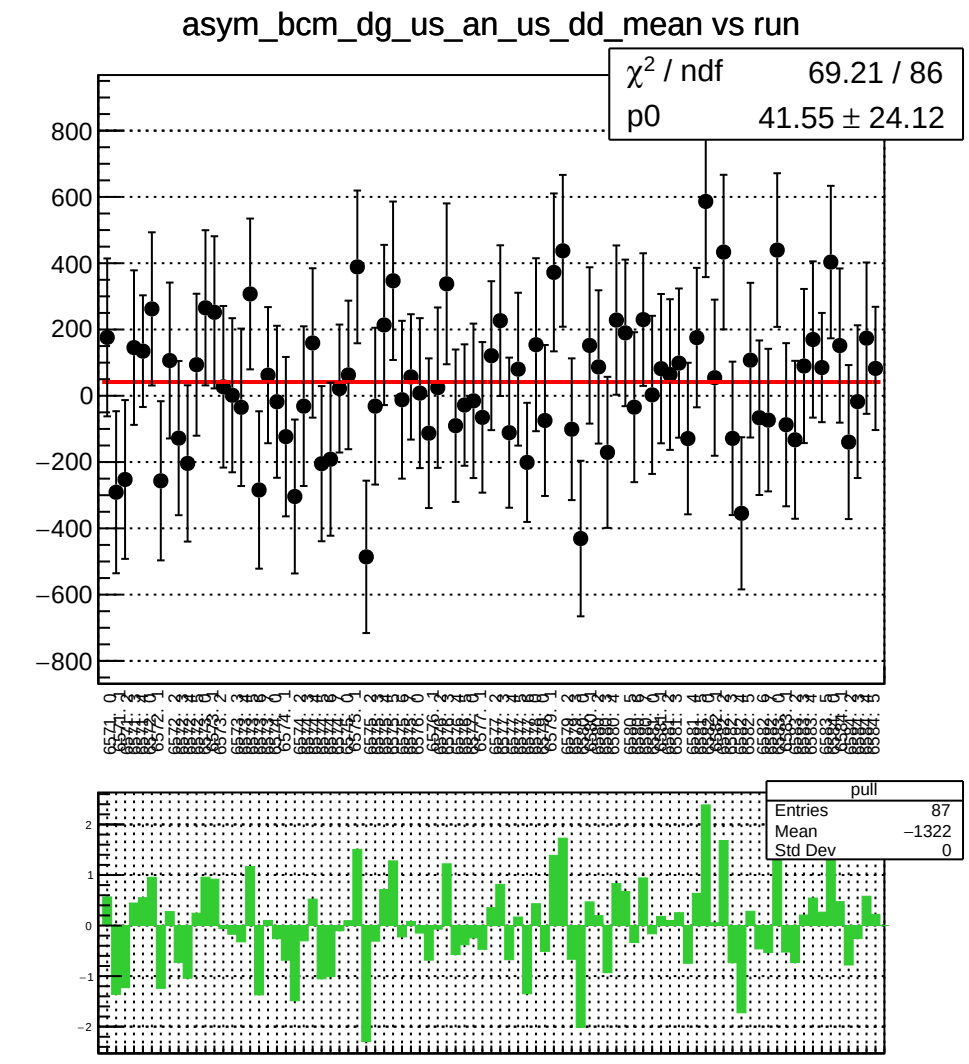

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 77.01 / 86
p0 −67.25 ± 33.94
pull
Entries 87
Mean 302
Std Dev 0

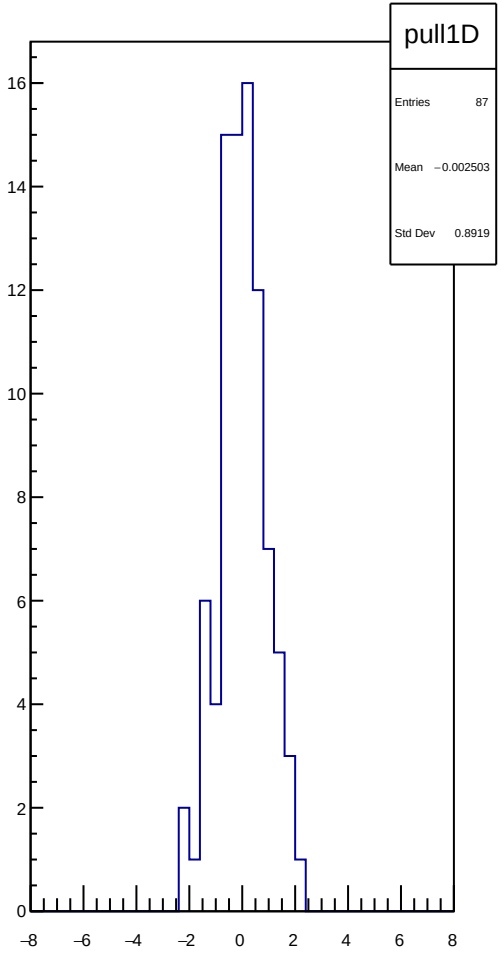

pull1D
Entries 87
Mean −0.01582
Std Dev 0.9407

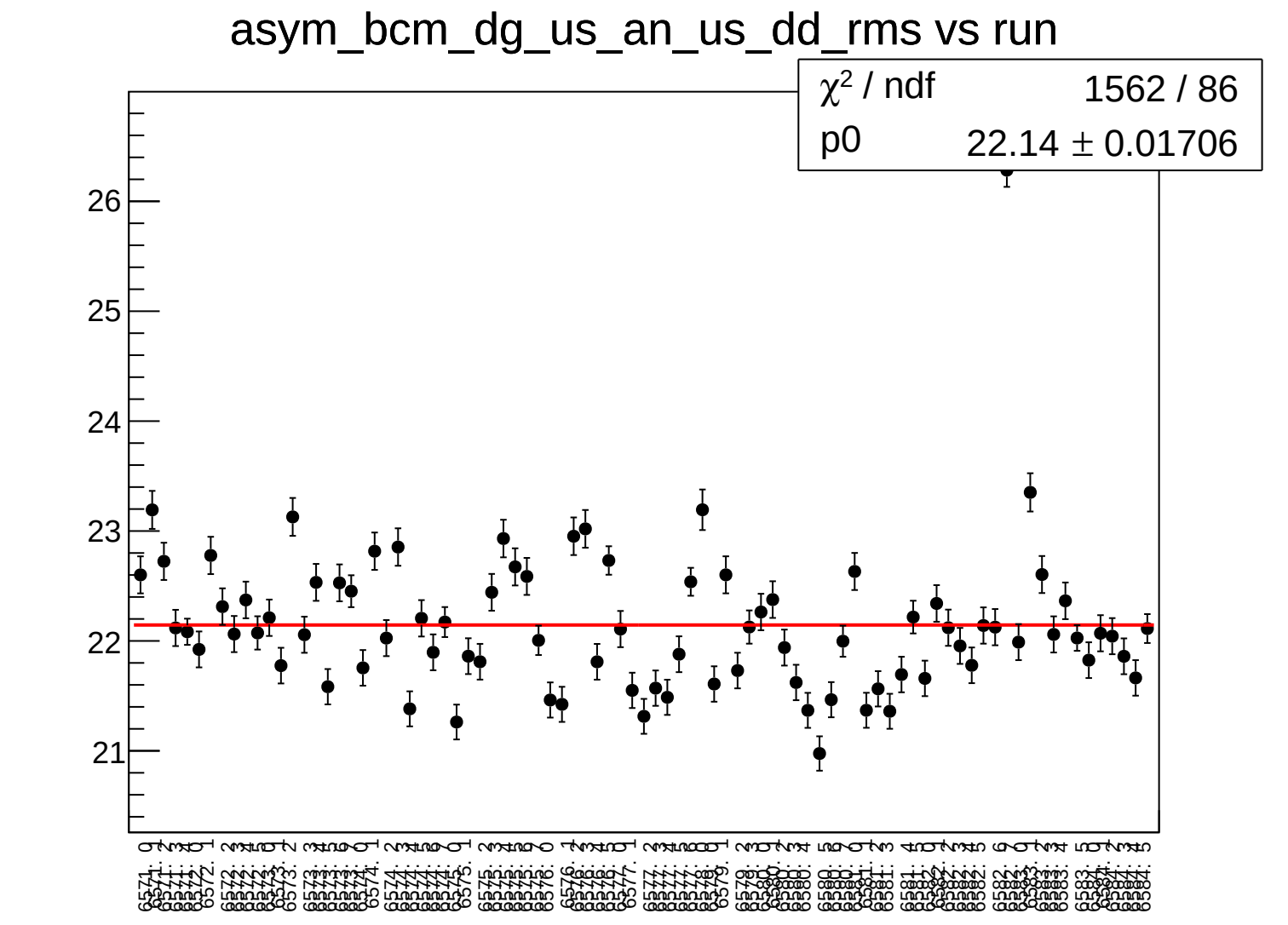

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2.087e+04 / 86
p0 30.98 ± 0.024
80
70
60
50
40
30

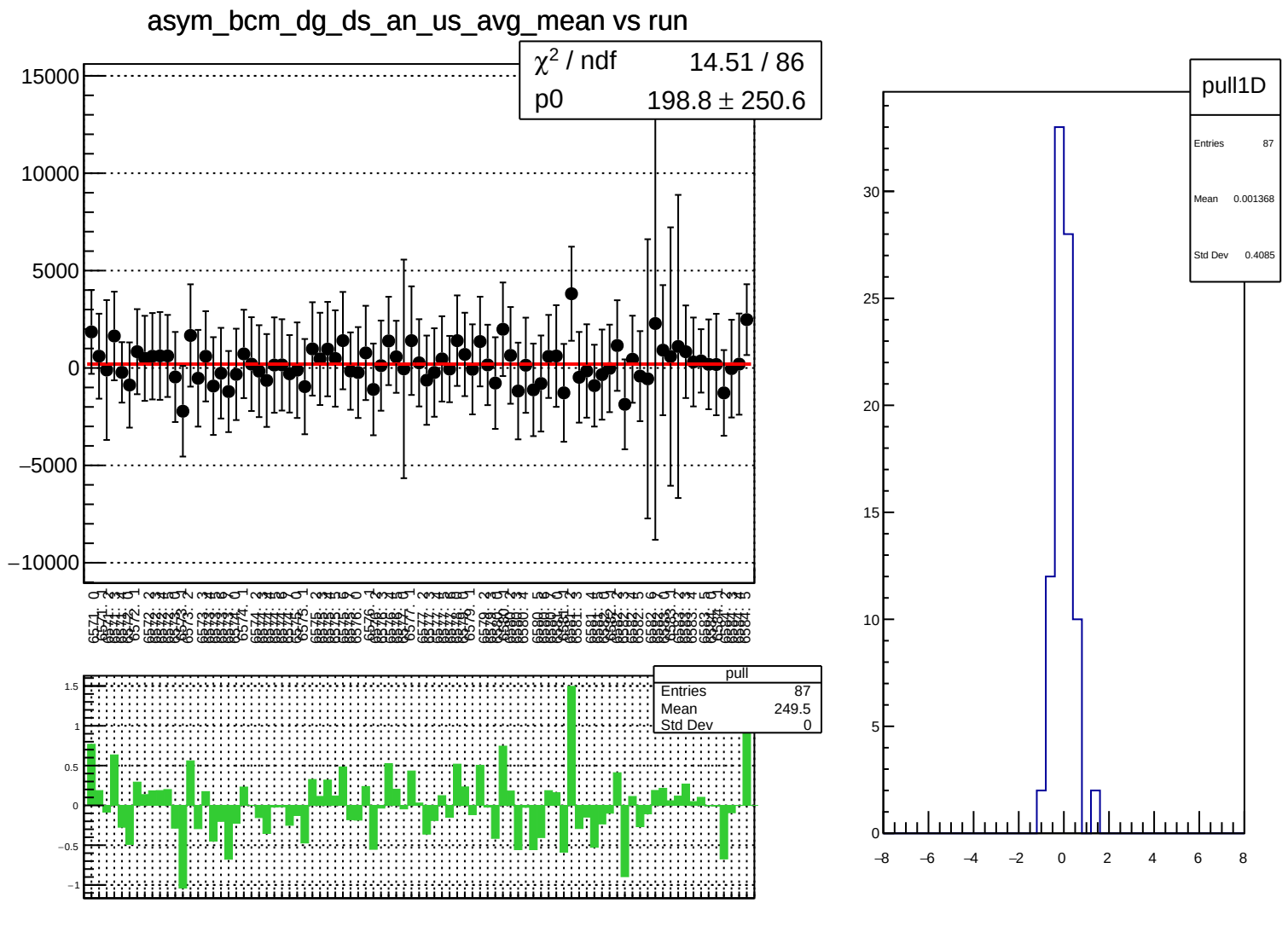

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 14.1 / 86
p0 235.1 ± 252.9
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 412.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.001626
Std Dev 0.4026
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

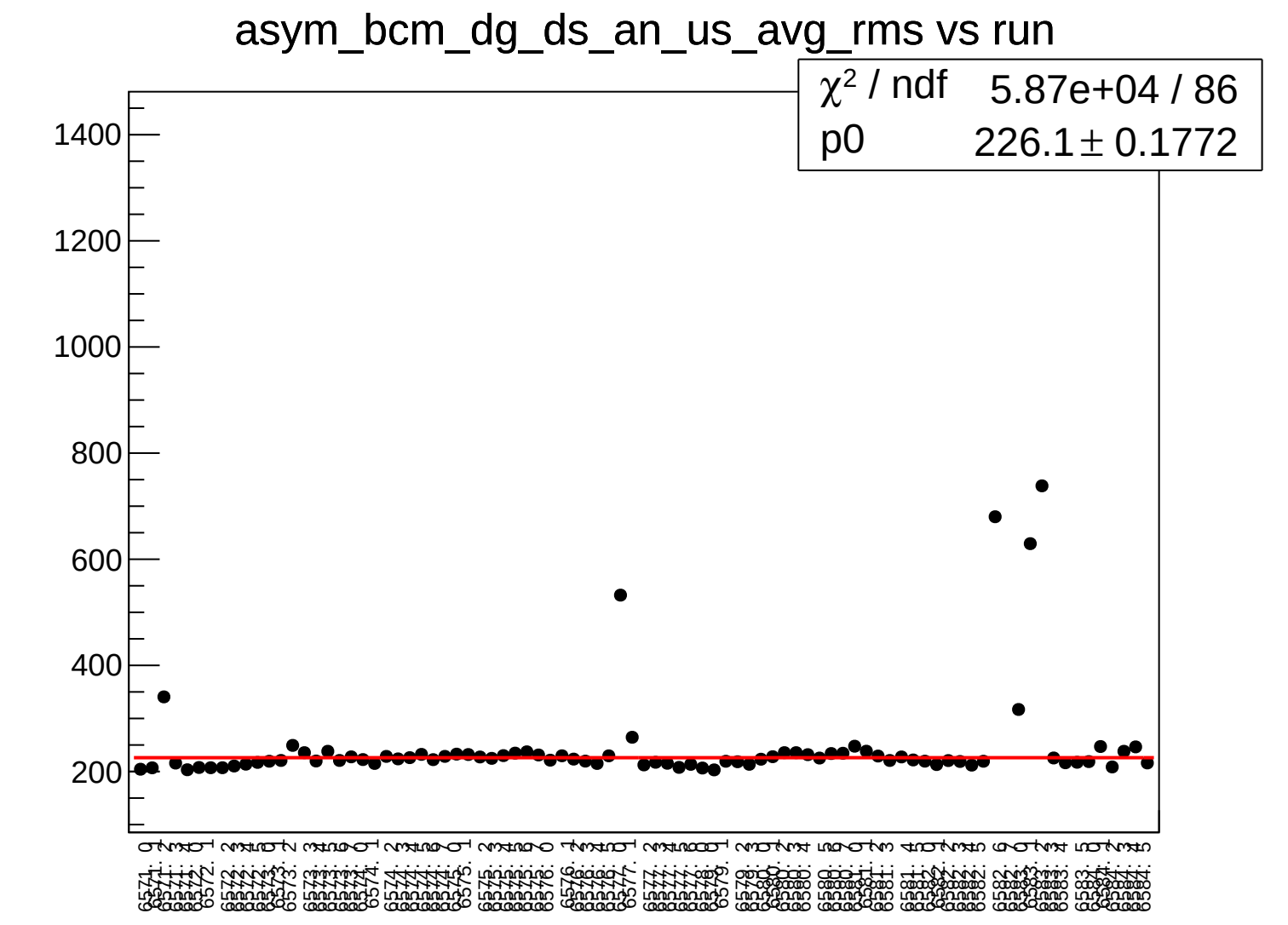

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 5.852e+04 / 86
p0 228.2 ± 0.1789
1400
1200
1000
800
600
400
200

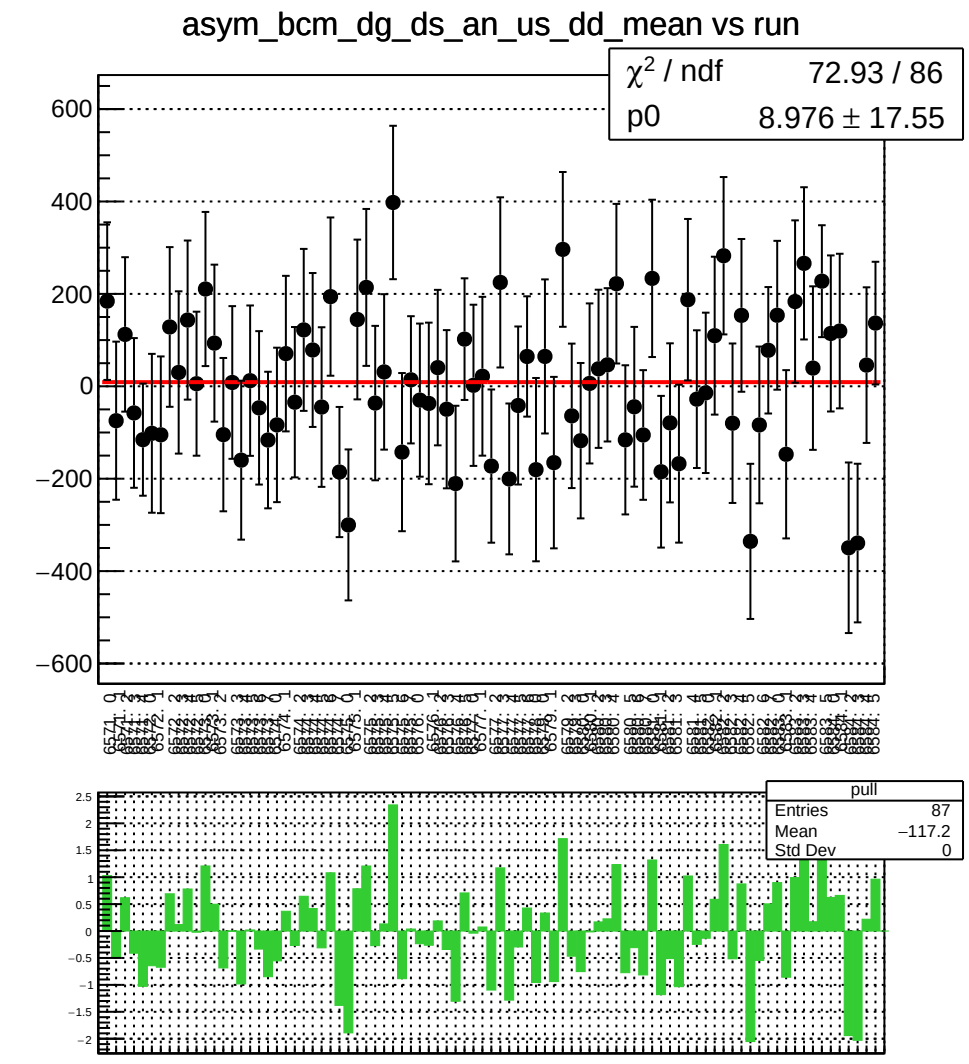

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 69.21 / 86
p0 41.55 ± 24.12
pull
Entries 87
Mean −1322
Std Dev 0

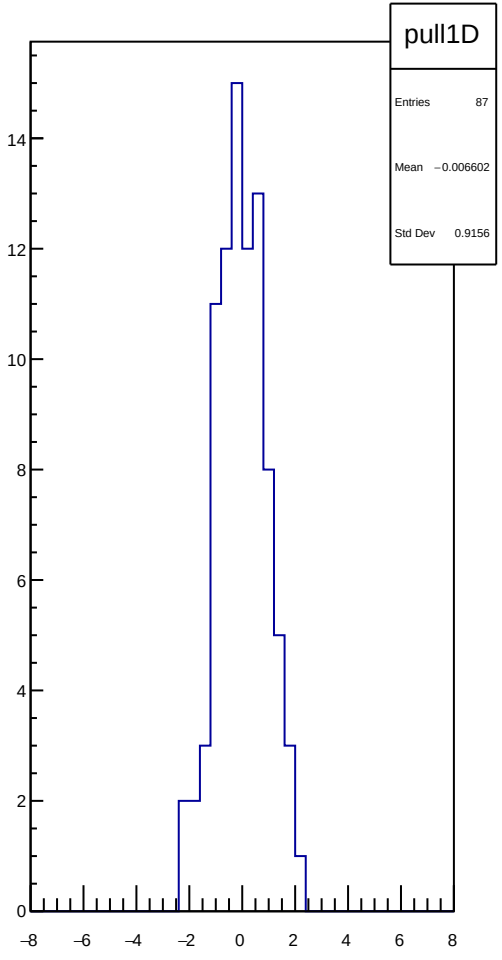

pull1D
Entries 87
Mean −0.002503
Std Dev 0.8919

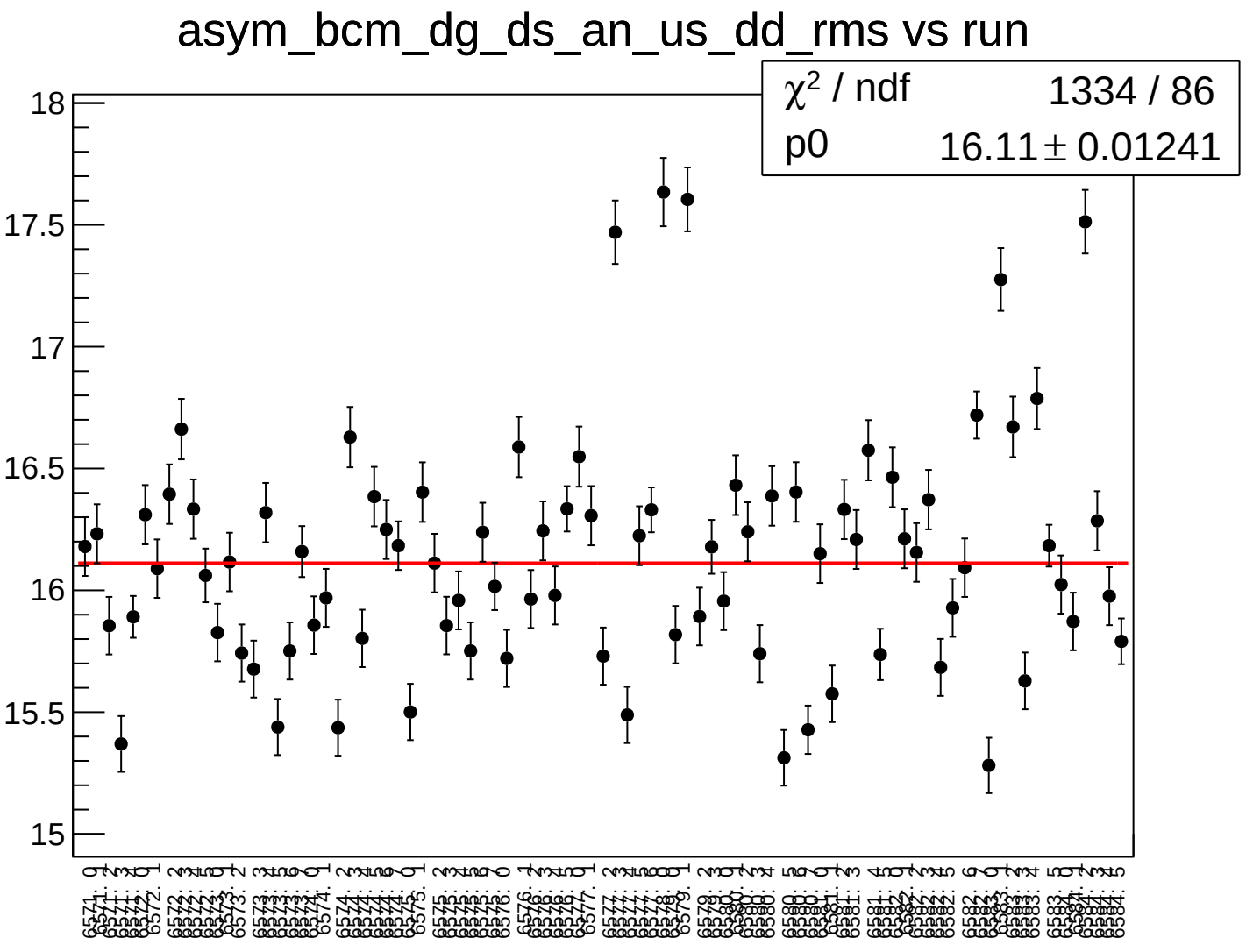

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1562 / 86
p0 22.14 ± 0.01706
26
25
24
23
22
21

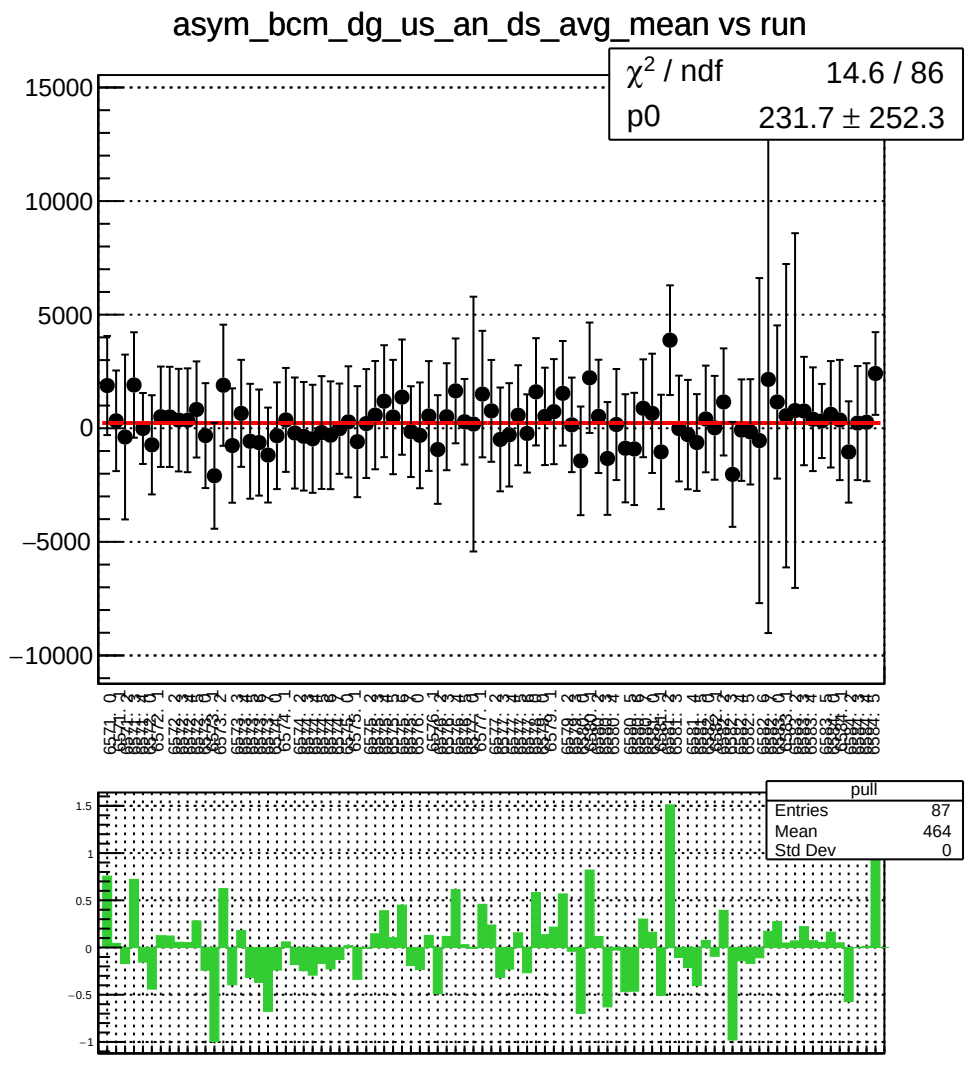

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 14.51 / 86
p0 198.8 ± 250.6
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 249.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.001368
Std Dev 0.4085
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

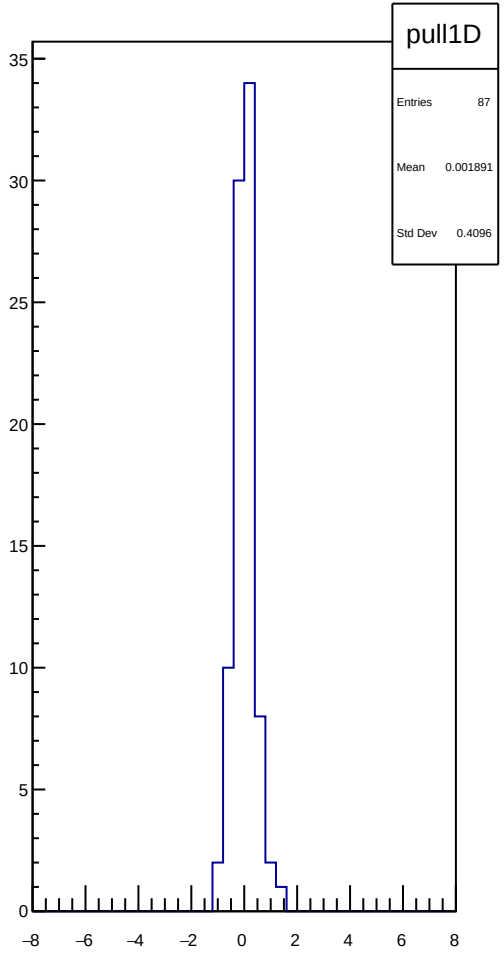

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 5.87e+04 / 86
p0 226.1 ± 0.1772
1400
1200
1000
800
600
400
200

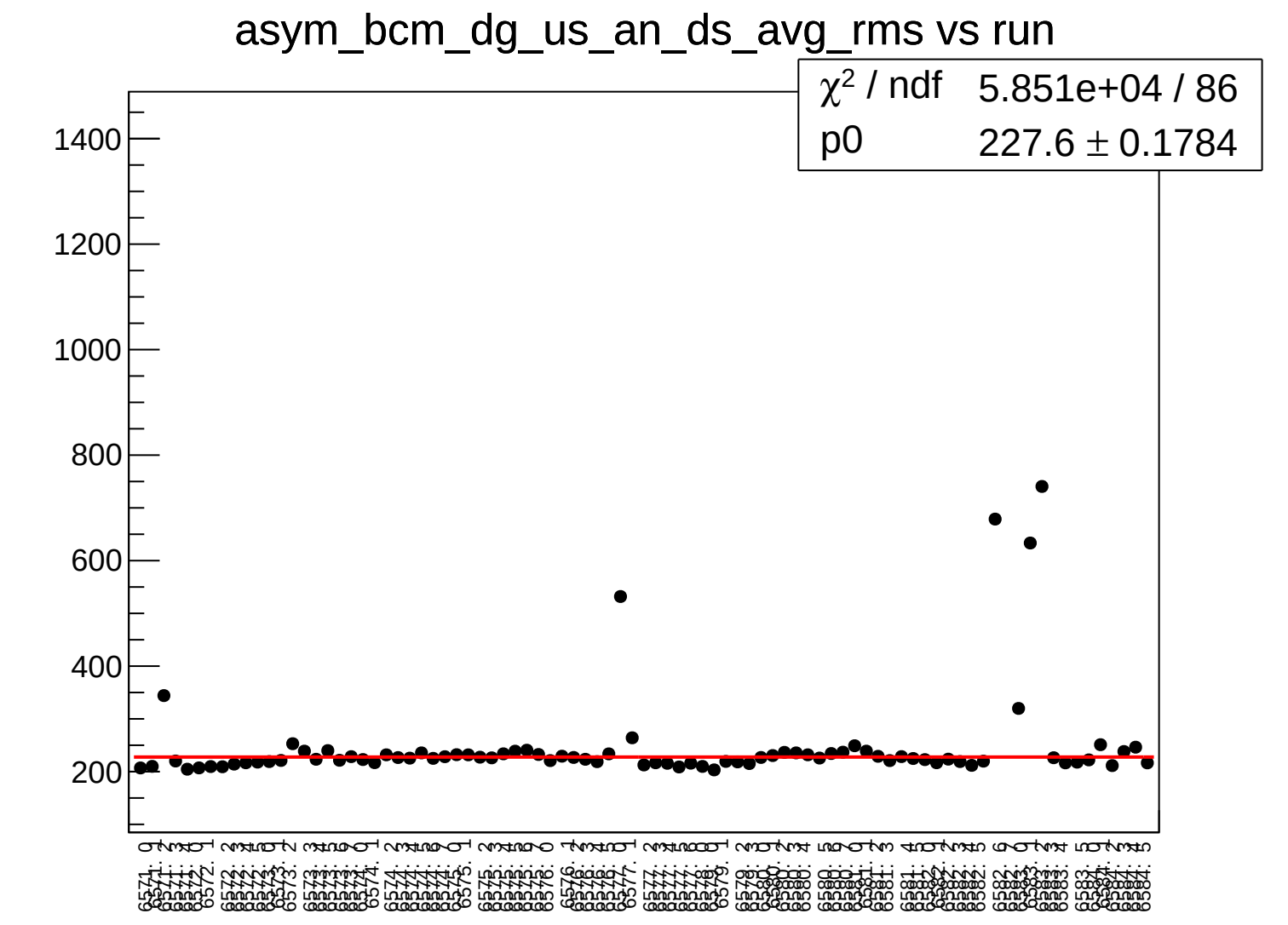

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 72.93 / 86
p0 8.976 ± 17.55
pull
Entries 87
Mean −117.2
Std Dev 0

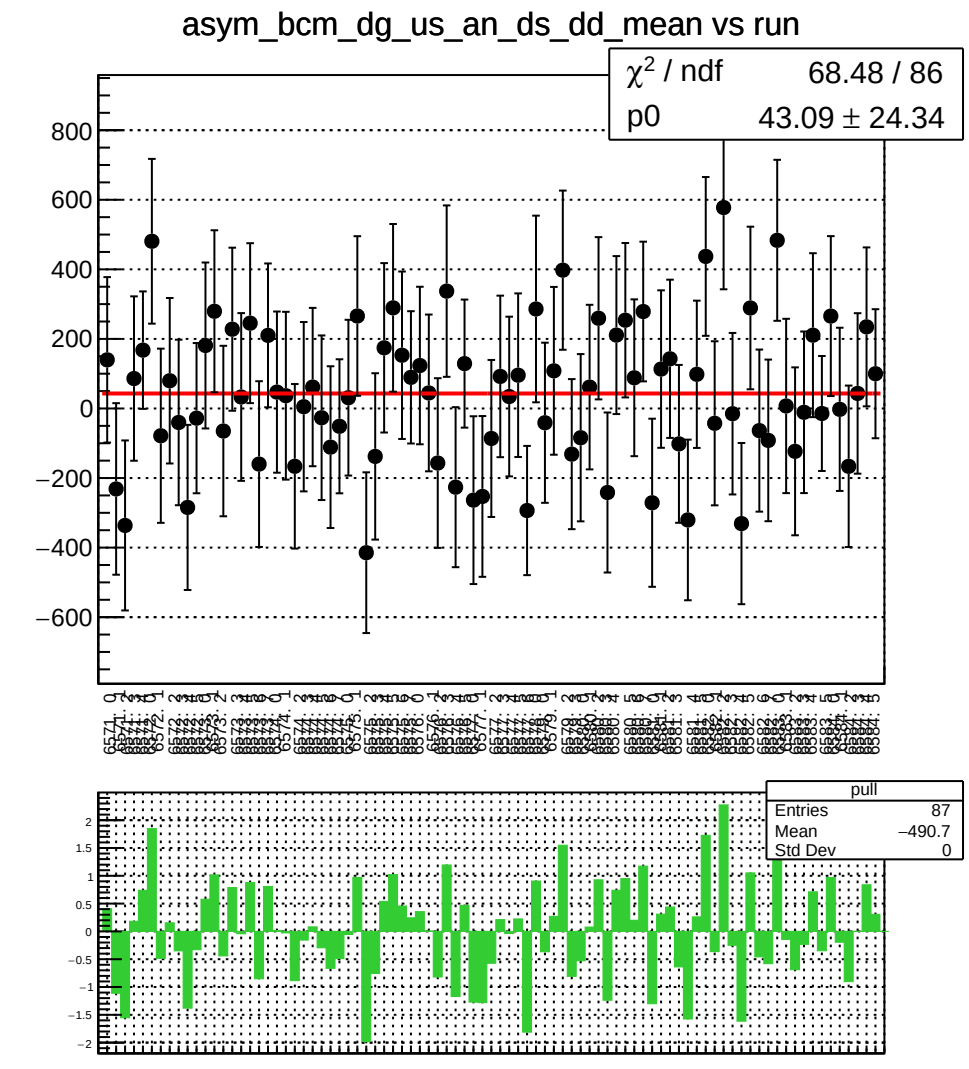

pull1D
Entries 87
Mean −0.006602
Std Dev 0.9156

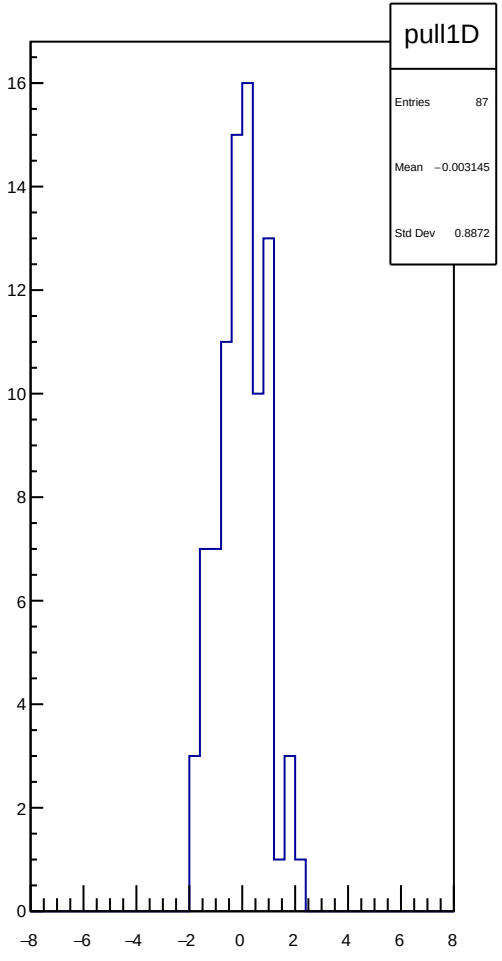

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1334 / 86
p0 16.11 ± 0.01241
18
17.5
17
16.5
16
15.5
15

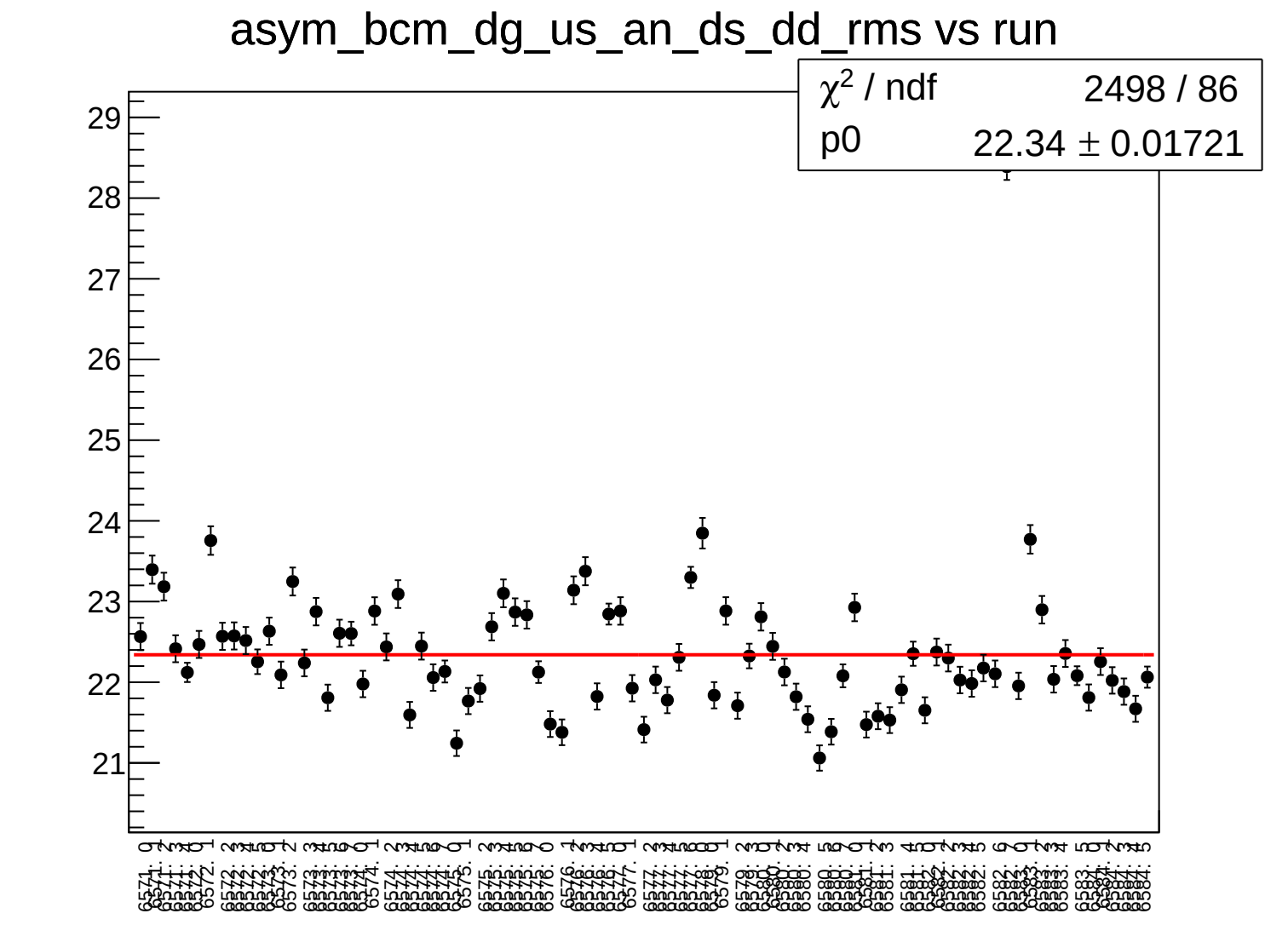

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 14.6 / 86
p0 231.7 ± 252.3
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 464
Std Dev 0
1.5
1
0.5
0
−0.5
−1

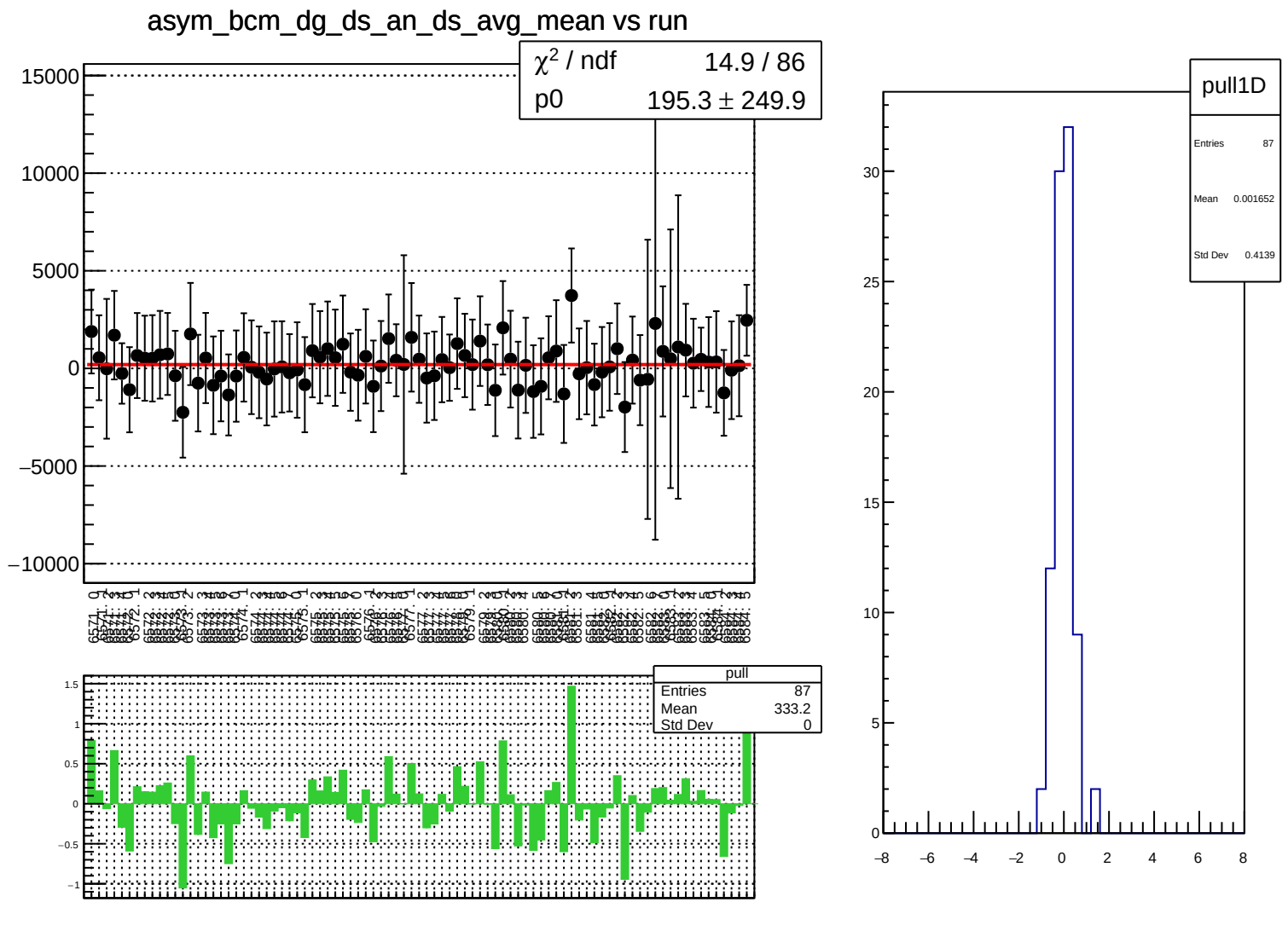

pull1D
Entries 87
Mean 0.001891
Std Dev 0.4096
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

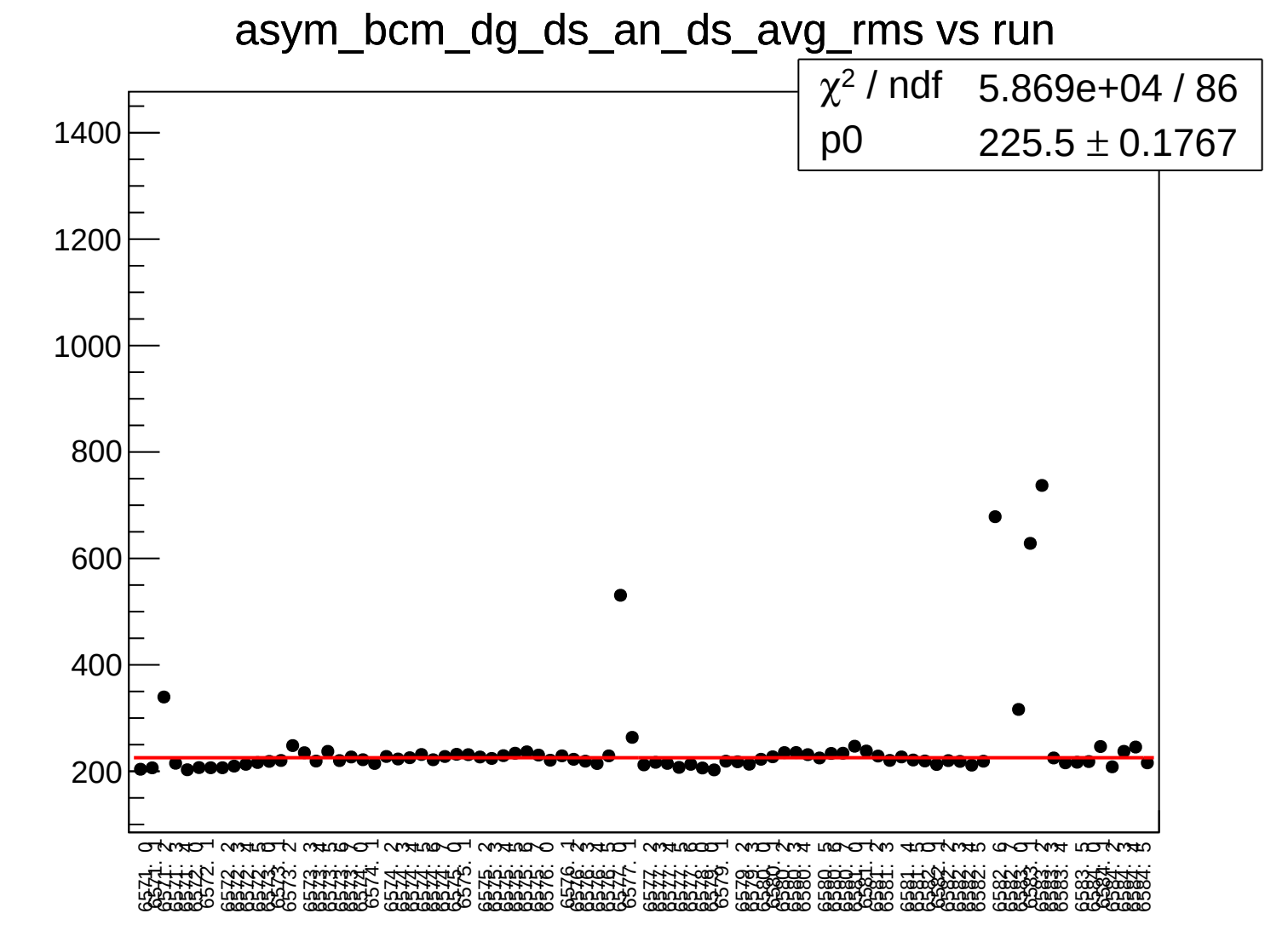

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 5.851e+04 / 86
p0 227.6 ± 0.1784
1400
1200
1000
800
600
400
200

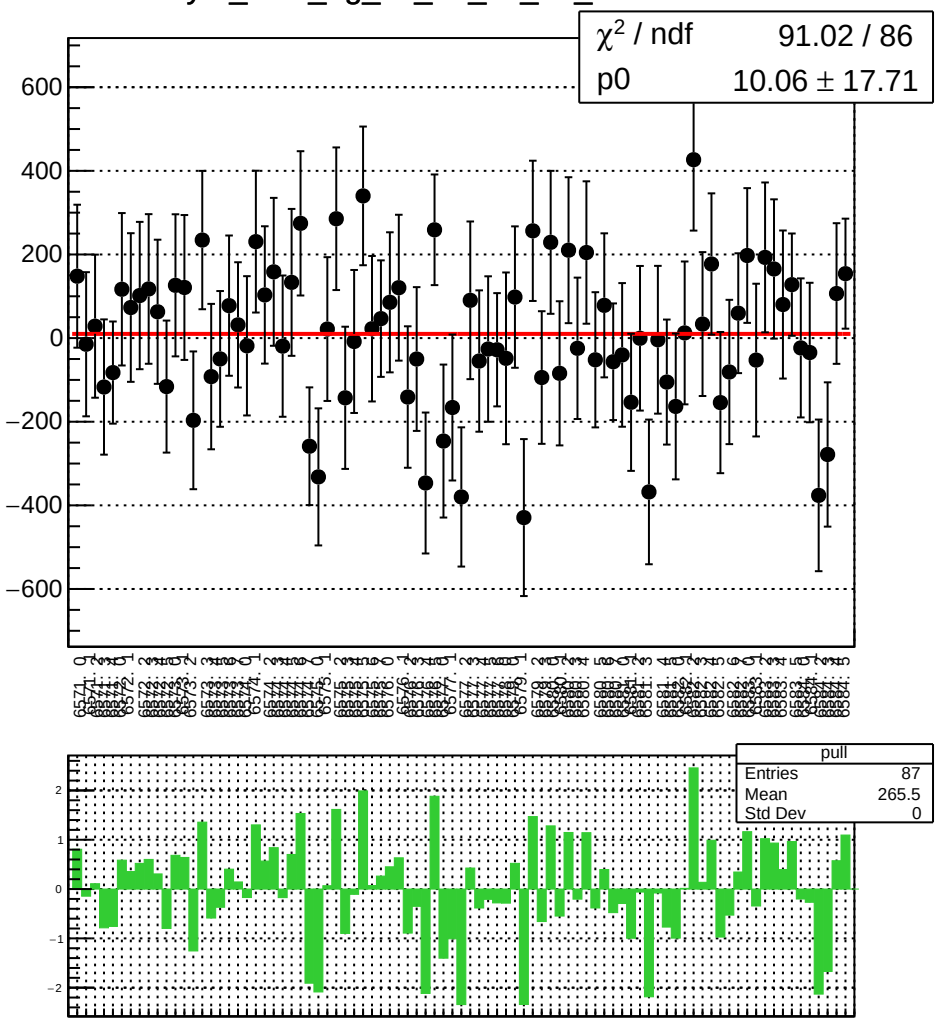

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 68.48 / 86
p0 43.09 ± 24.34
pull
Entries 87
Mean −490.7
Std Dev 0

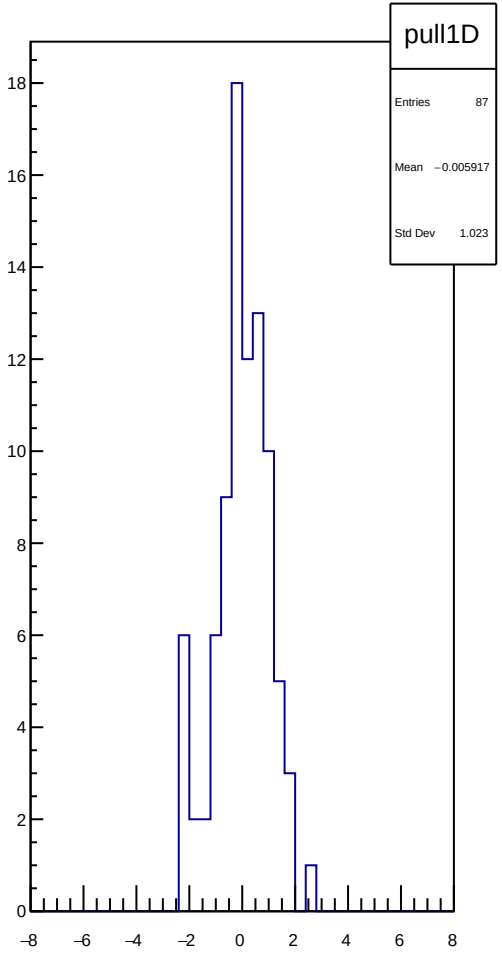

pull1D
Entries 87
Mean −0.003145
Std Dev 0.8872

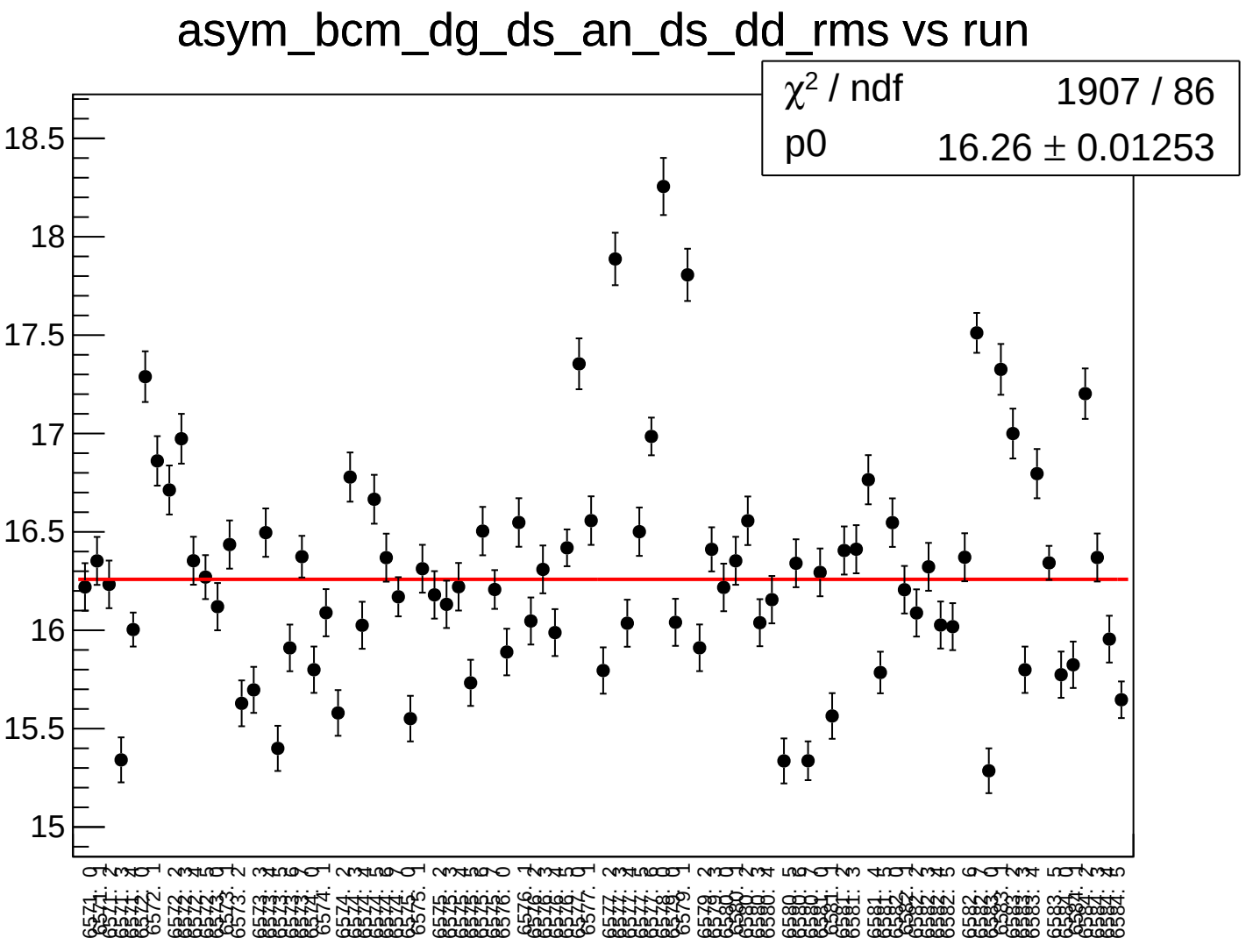

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 2498 / 86
p0 22.34 ± 0.01721
29
28
27
26
25
24
23
22
21

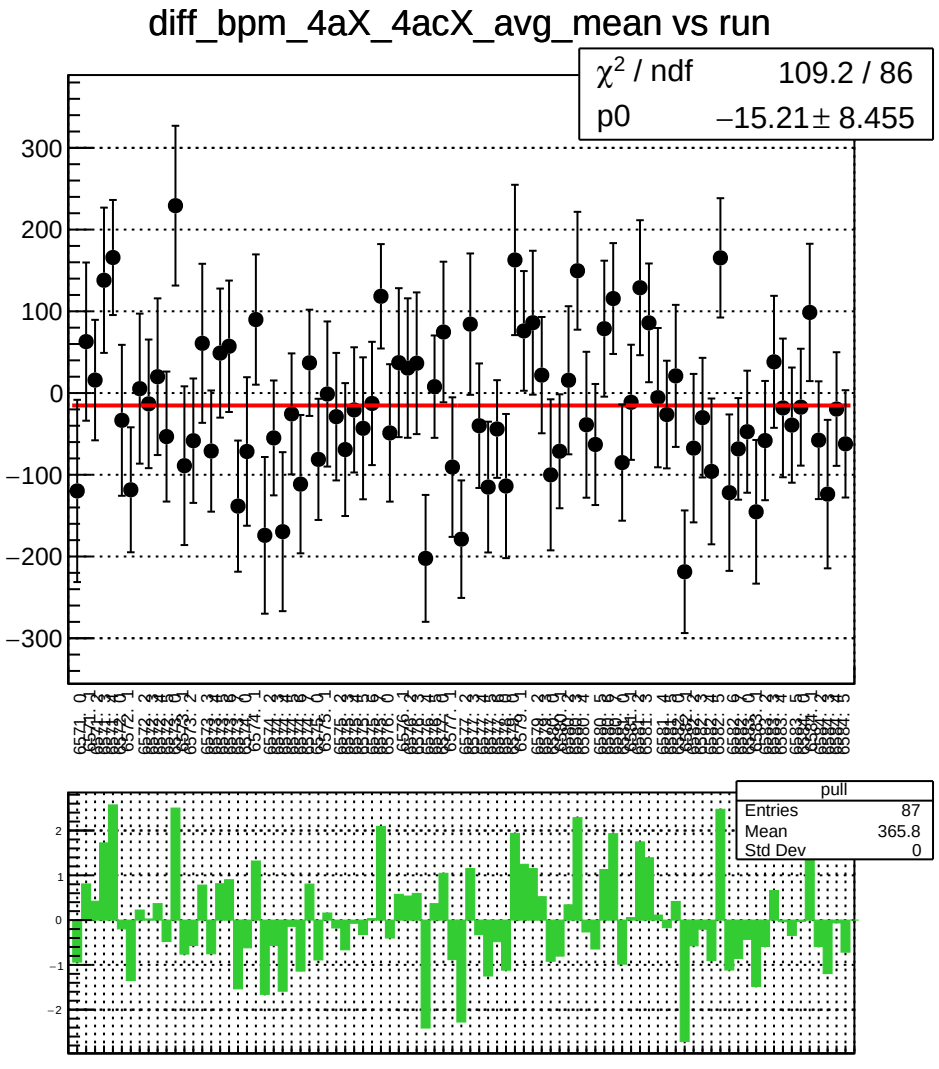

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 14.9 / 86
p0 195.3 ± 249.9
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 333.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.001652
Std Dev 0.4139
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

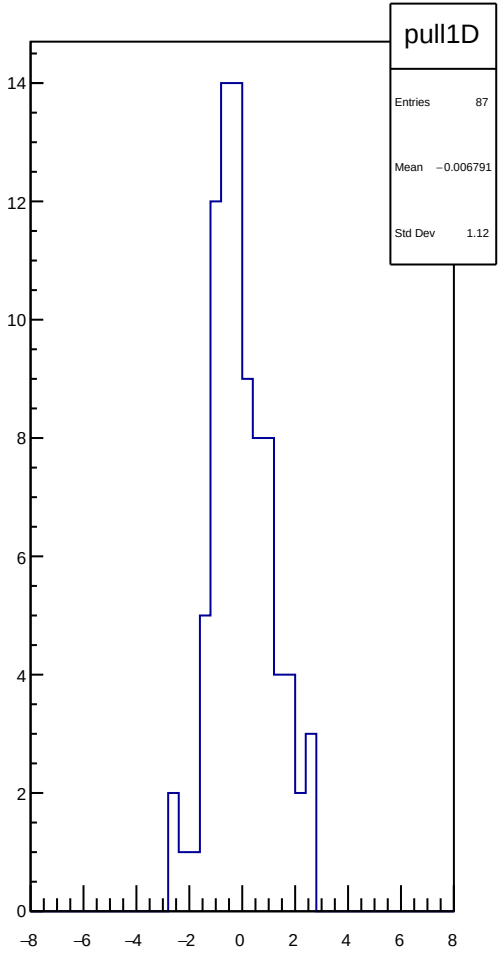

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 5.869e+04 / 86
p0 225.5 ± 0.1767
1400
1200
1000
800
600
400
200

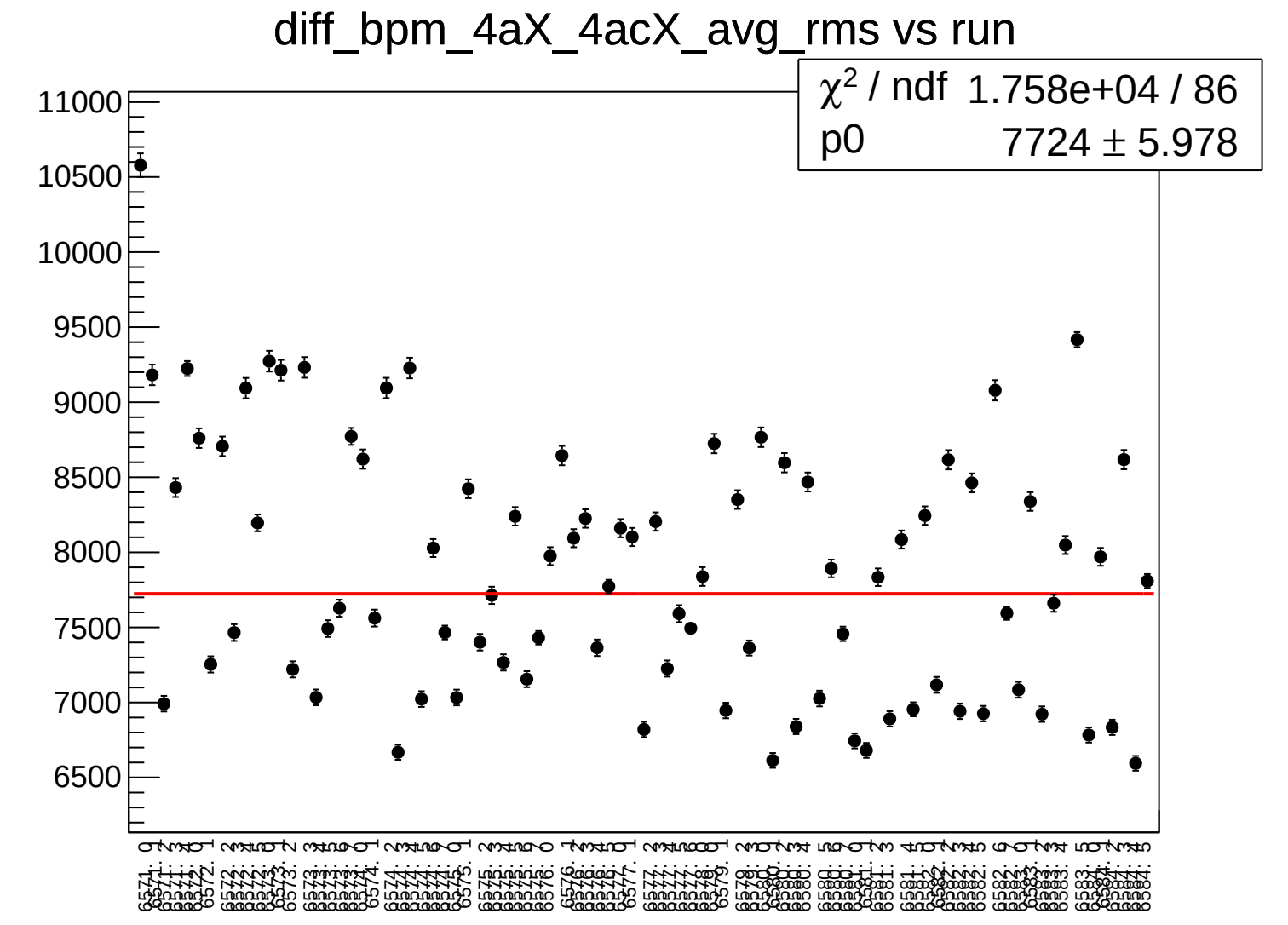

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 91.02 / 86
p0 10.06 ± 17.71
pull
Entries 87
Mean 265.5
Std Dev 0

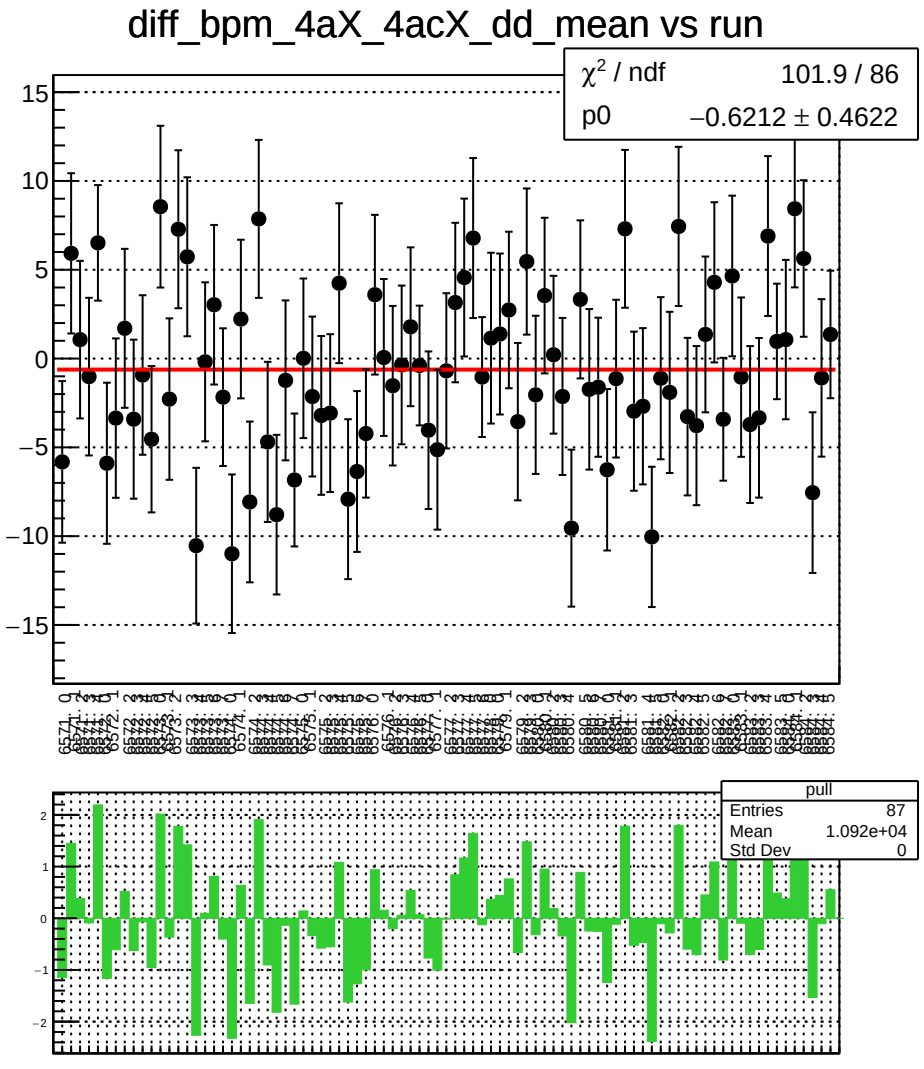

pull1D
Entries 87
Mean −0.005917
Std Dev 1.023

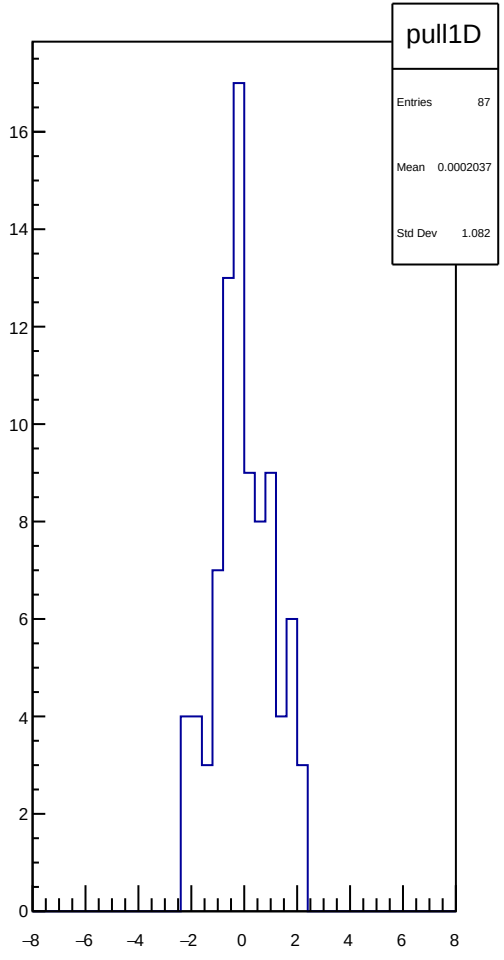

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1907 / 86
p0 16.26 ± 0.01253
18.5
18
17.5
17
16.5
16
15.5
15

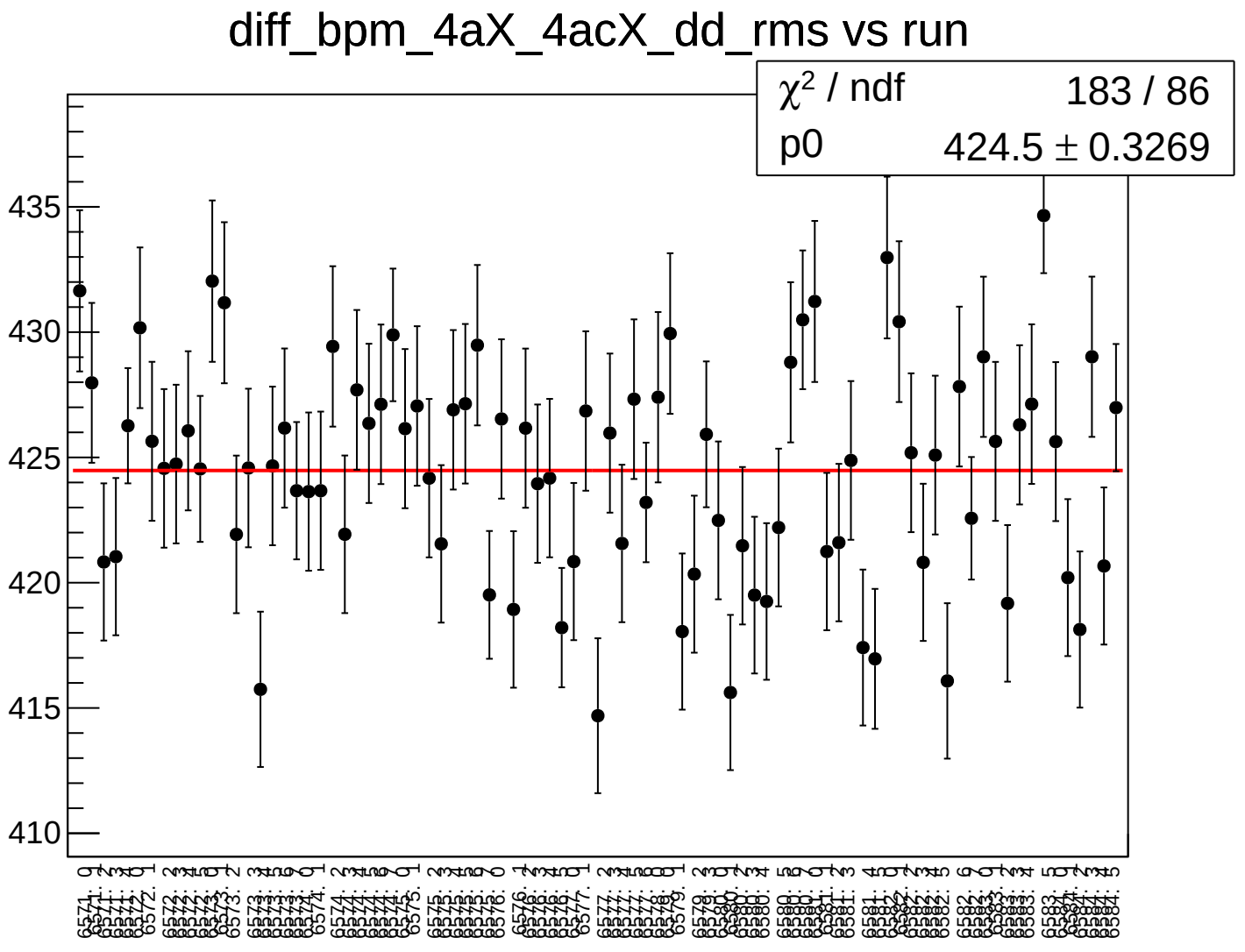

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 109.2 / 86
p0 −15.21 ± 8.455
pull
Entries 87
Mean 365.8
Std Dev 0

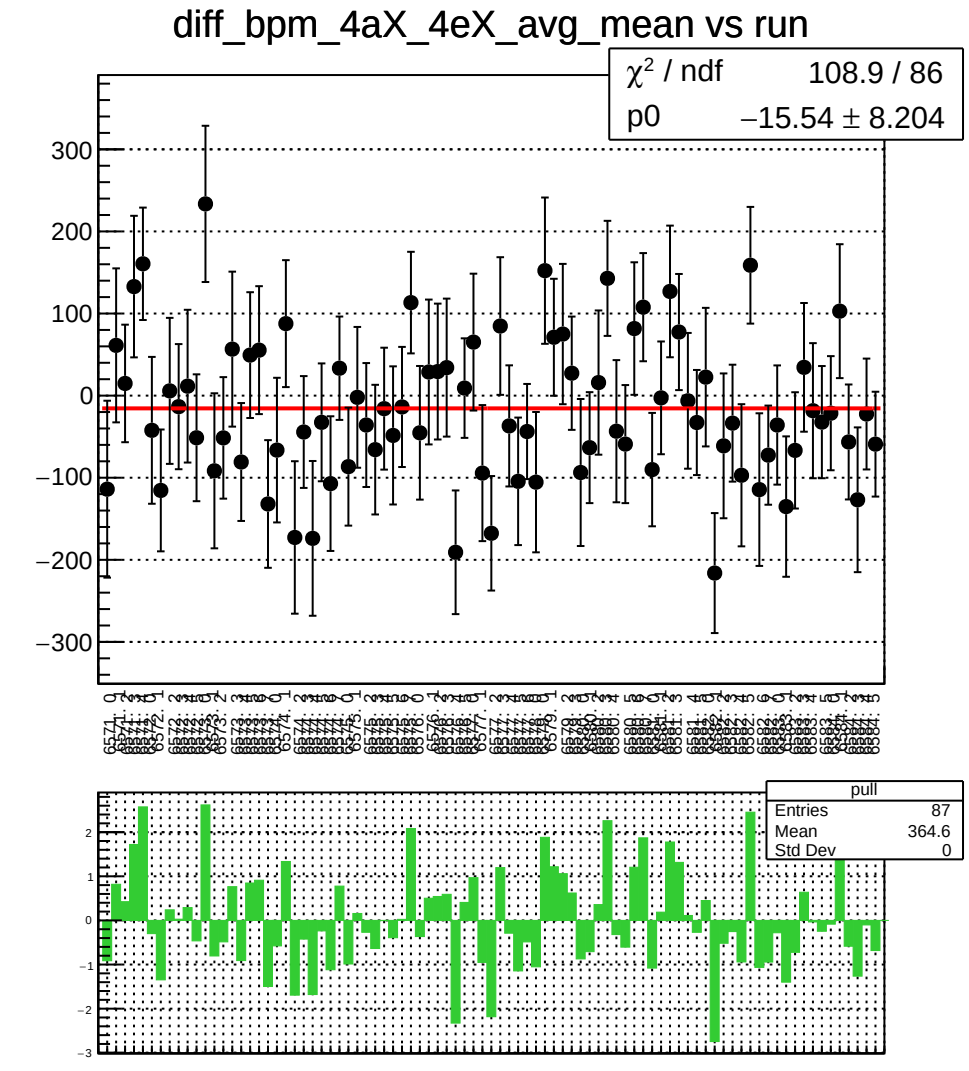

pull1D
Entries 87
Mean −0.006791
Std Dev 1.12

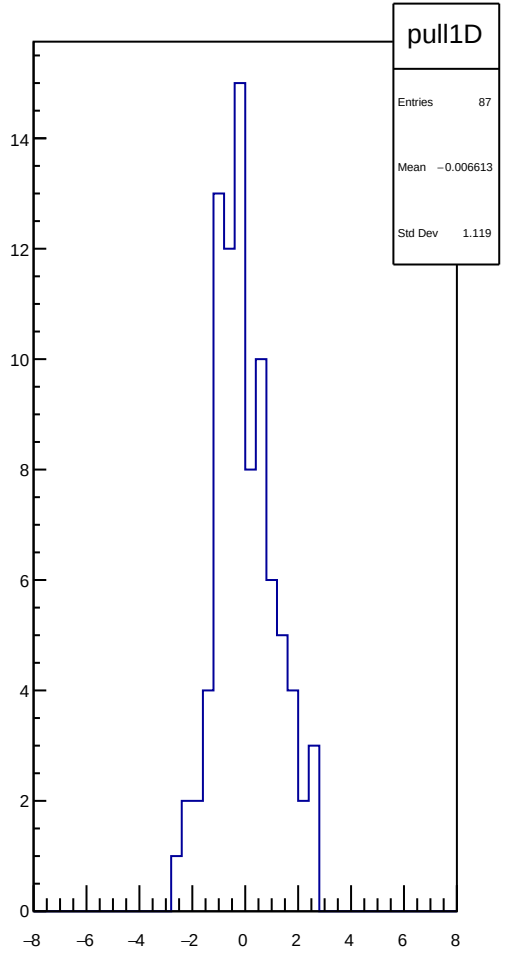

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.758e+04 / 86
p0 7724 ± 5.978
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

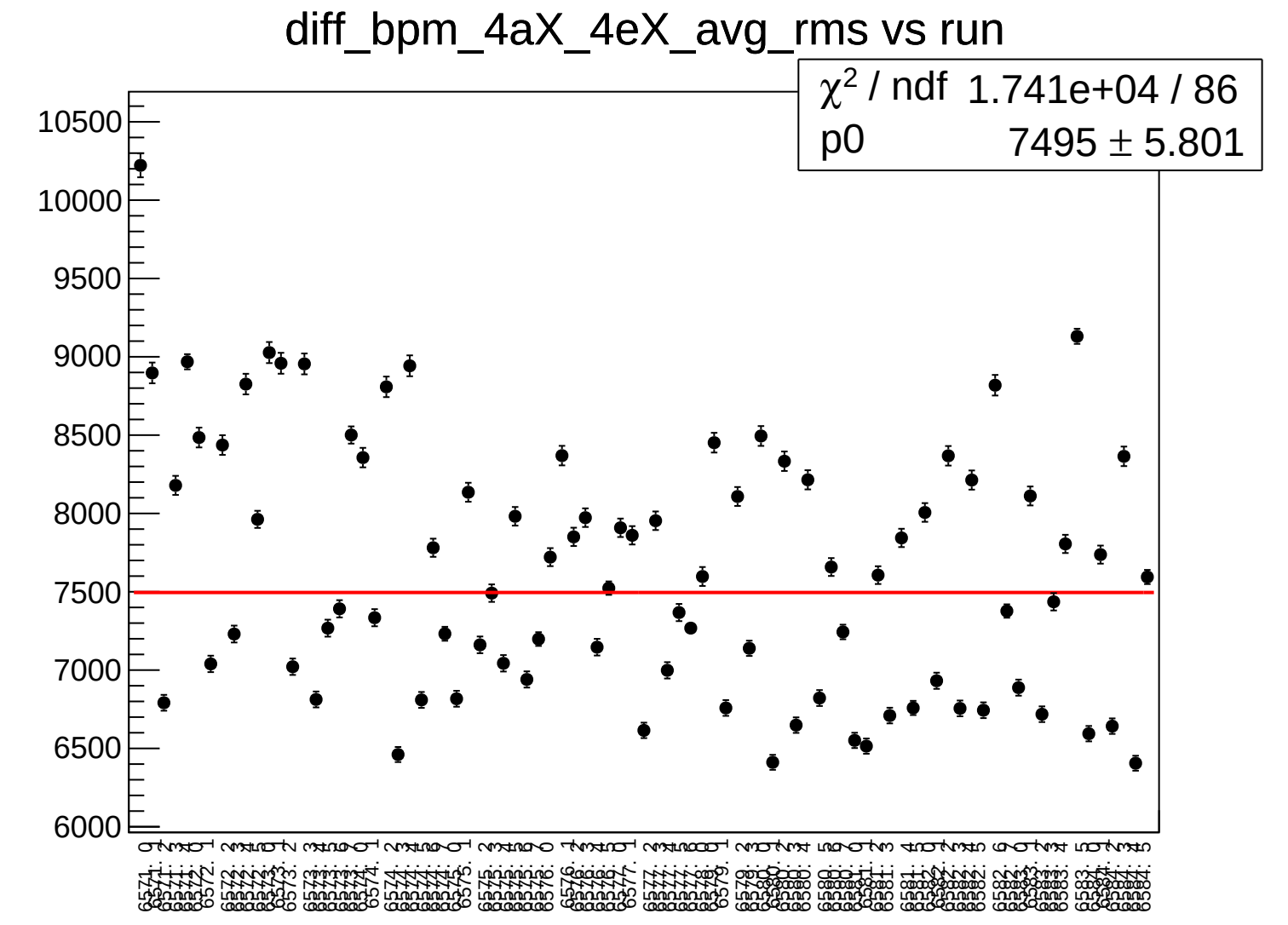

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 101.9 / 86
p0 −0.6212 ± 0.4622
pull
Entries 87
Mean 1.092e+04
Std Dev 0

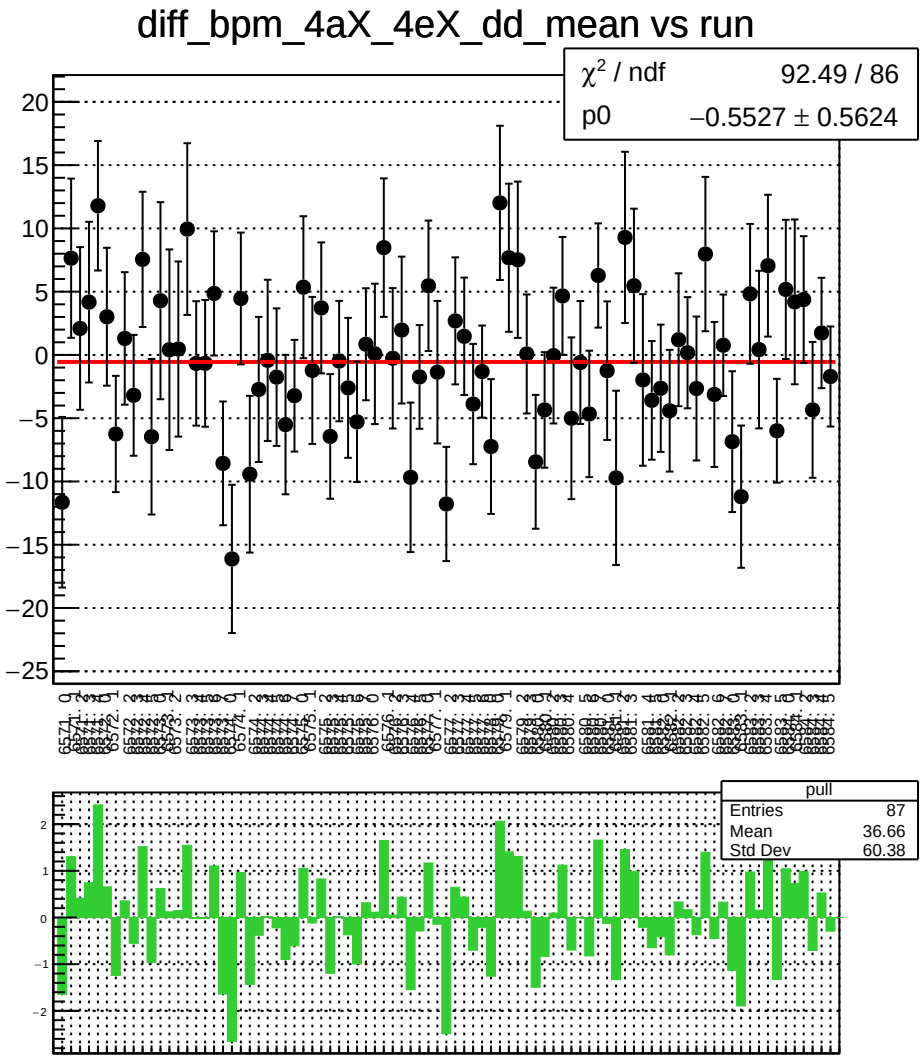

pull1D
Entries 87
Mean 0.0002037
Std Dev 1.082

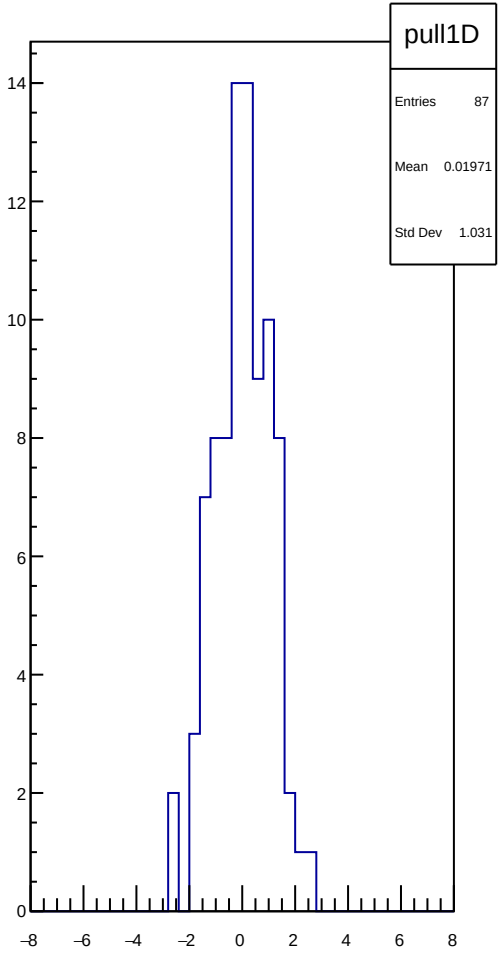

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 183 / 86
p0 424.5 ± 0.3269
435
430
425
420
415
410

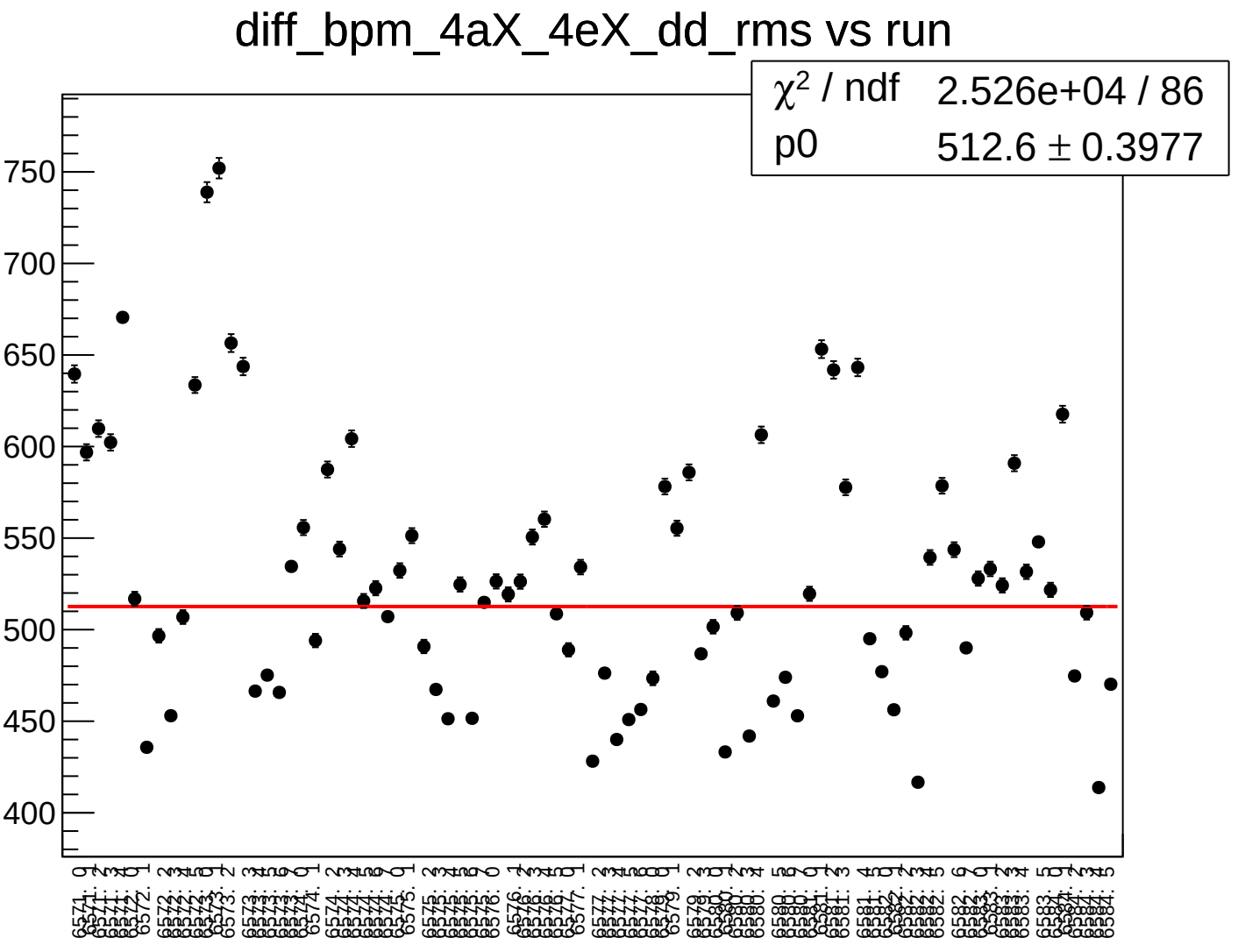

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 108.9 / 86
p0 −15.54 ± 8.204
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean 364.6
Std Dev 0
2
1
0
−1
−2
−3

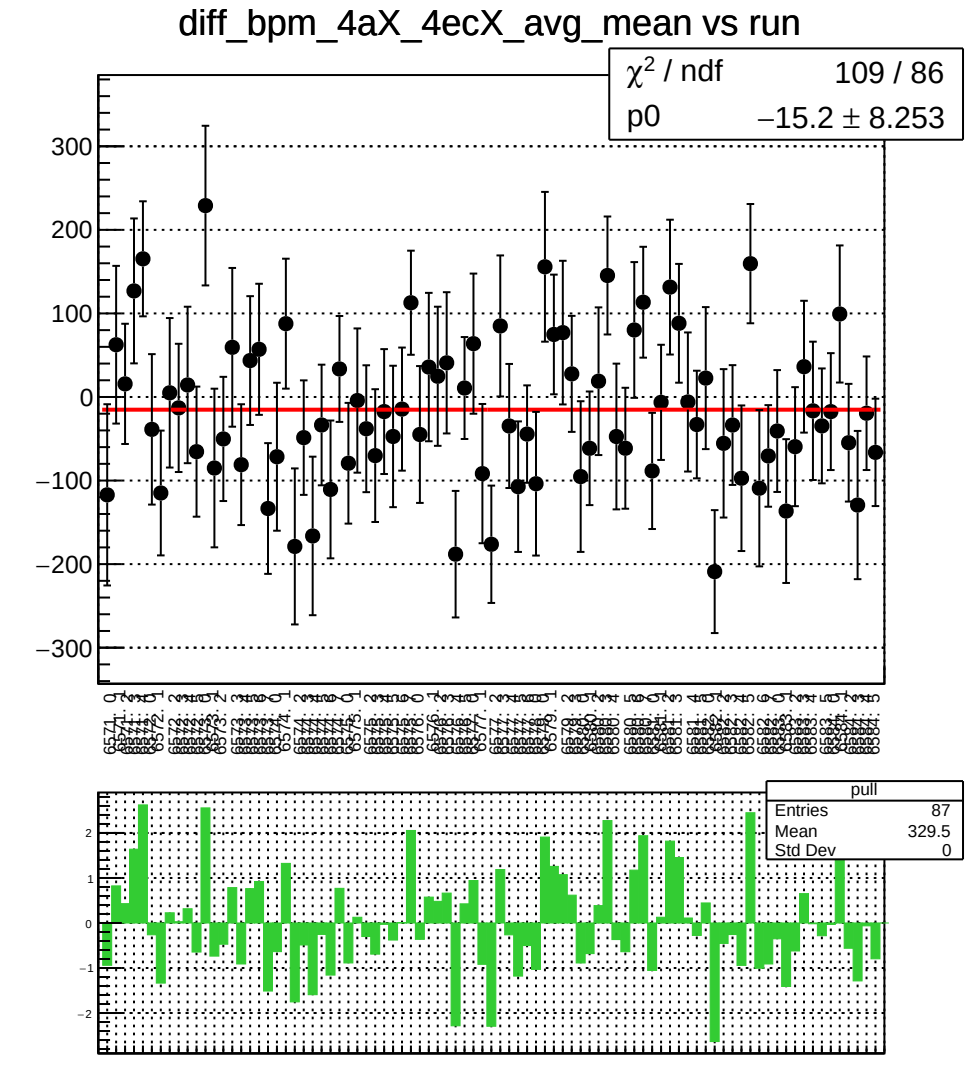

pull1D
Entries 87
Mean −0.006613
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

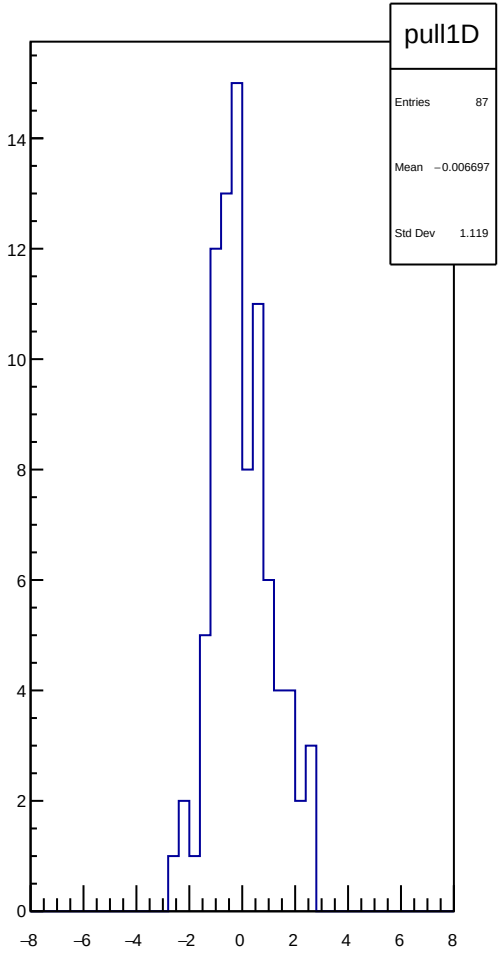

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.741e+04 / 86
p0 7495 ± 5.801
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

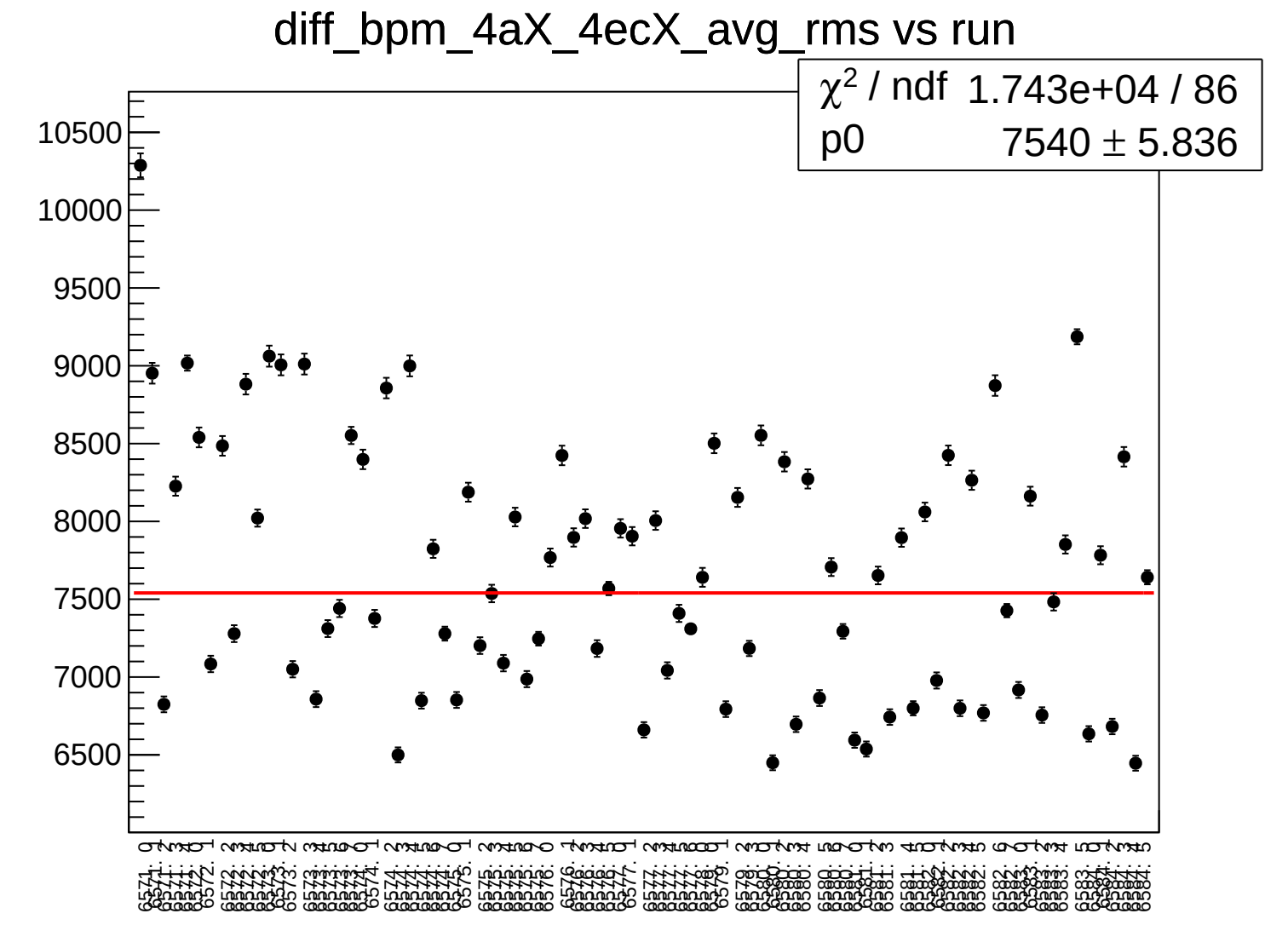

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 92.49 / 86
p0 −0.5527 ± 0.5624
pull
Entries 87
Mean 36.66
Std Dev 60.38

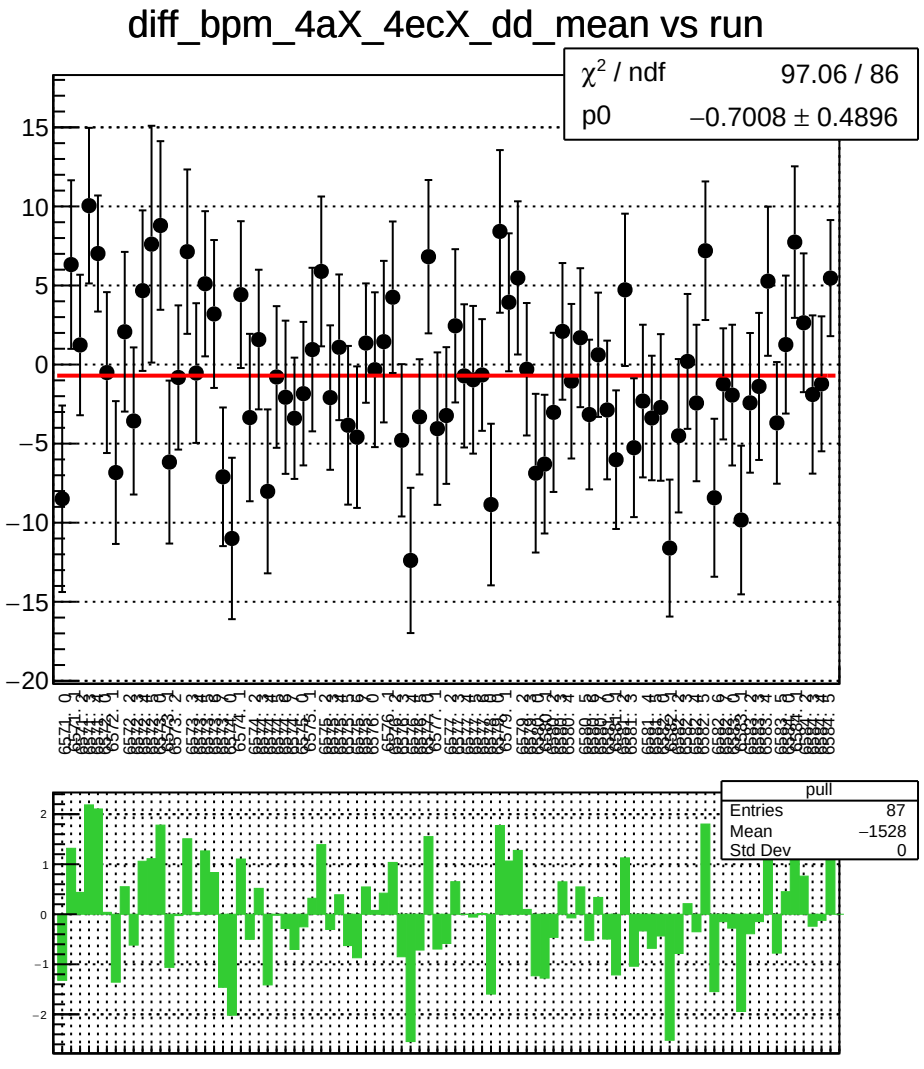

pull1D
Entries 87
Mean 0.01971
Std Dev 1.031

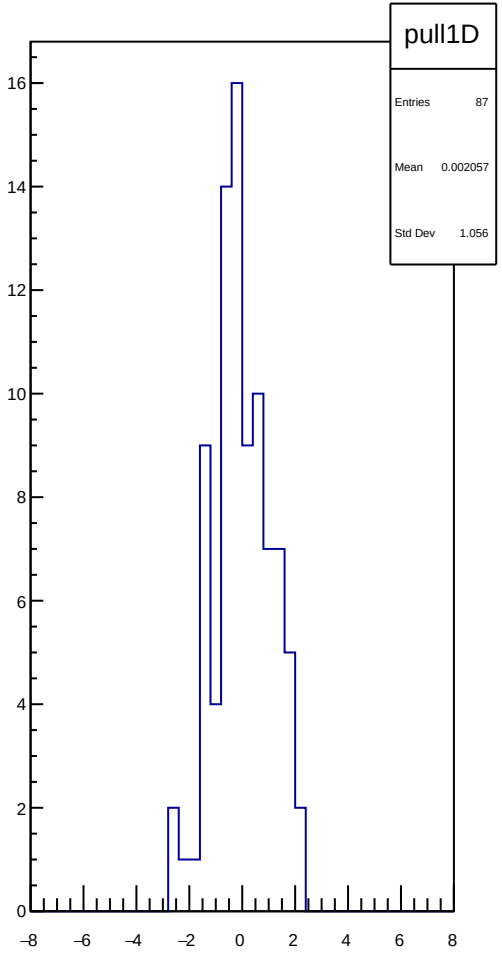

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2.526e+04 / 86
p0 512.6 ± 0.3977
750
700
650
600
550
500
450
400

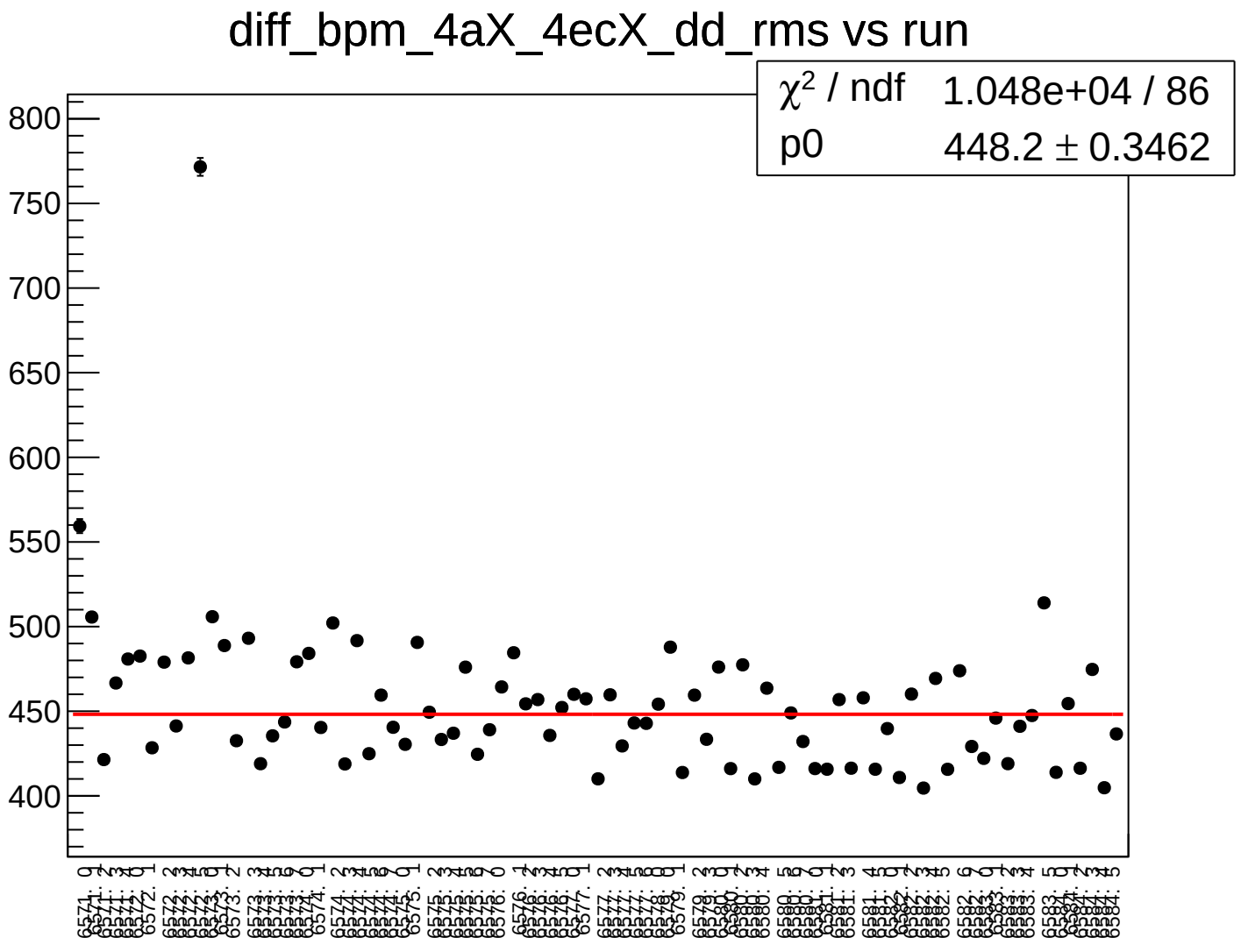

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 109 / 86
p0 −15.2 ± 8.253
pull
Entries 87
Mean 329.5
Std Dev 0

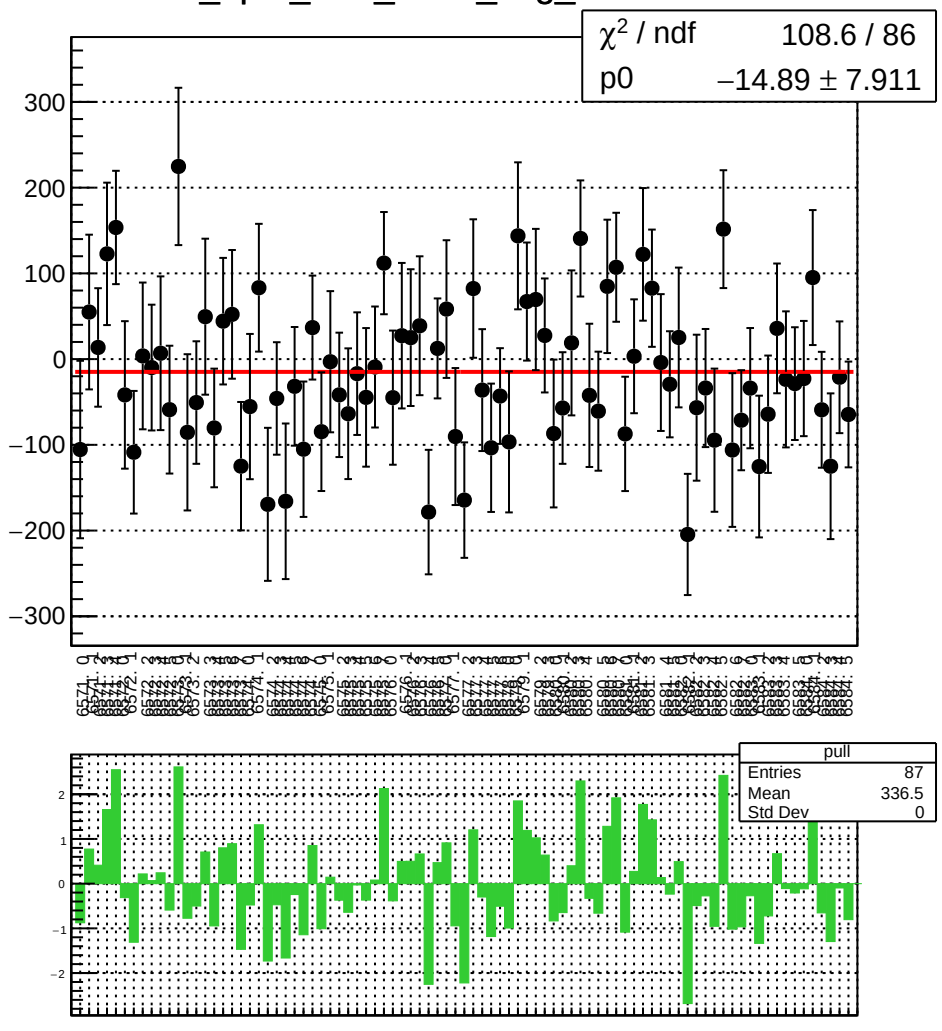

pull1D
Entries 87
Mean −0.006697
Std Dev 1.119

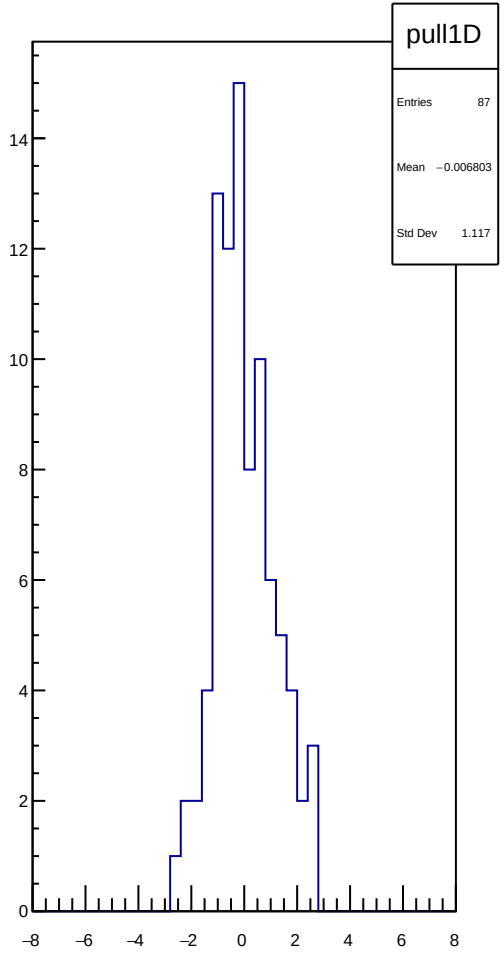

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.743e+04 / 86
p0 7540 ± 5.836
10500
10000
9500
9000
8500
8000
7500
7000
6500

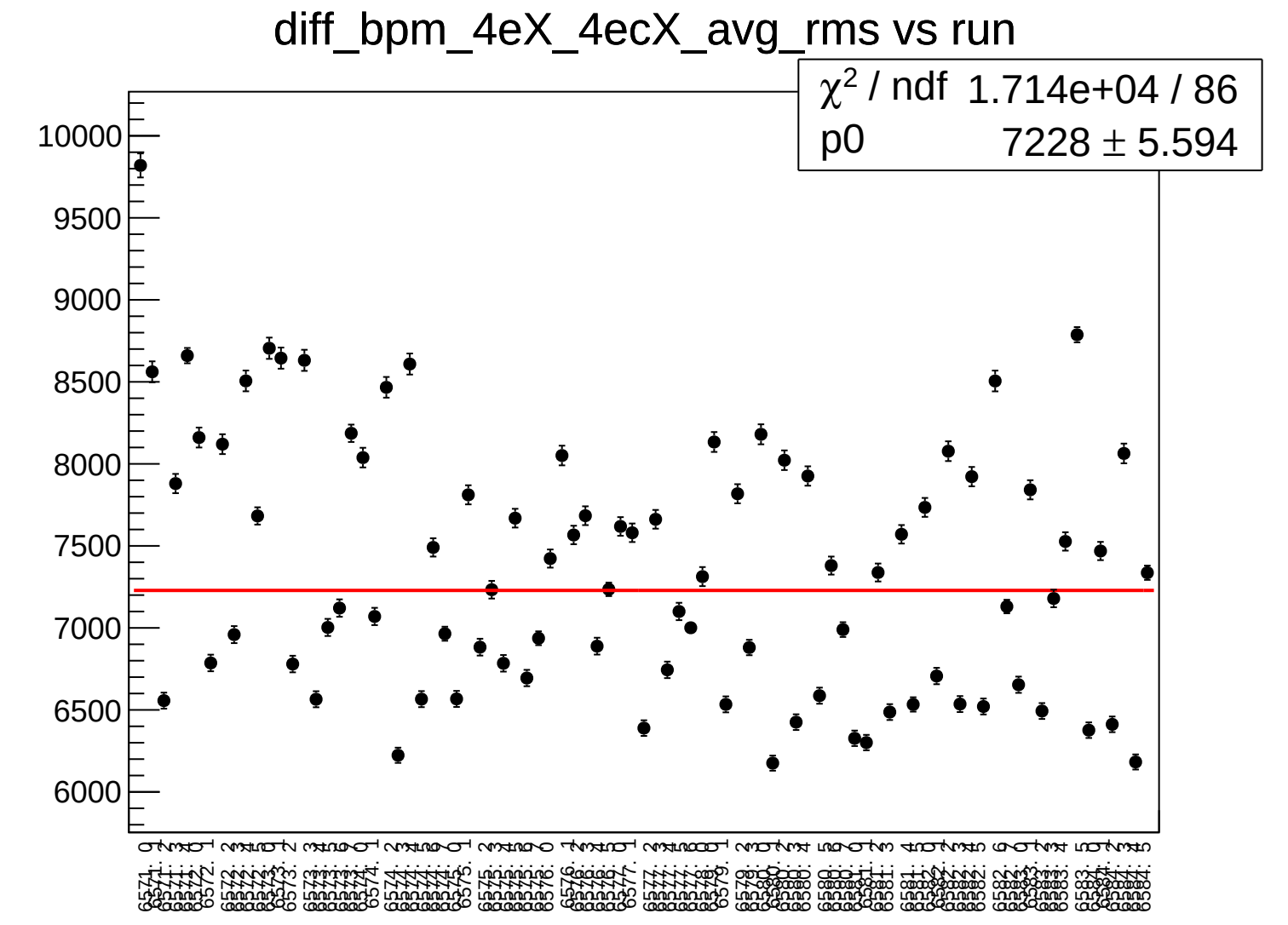

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 97.06 / 86
p0 −0.7008 ± 0.4896
pull
Entries 87
Mean −1528
Std Dev 0

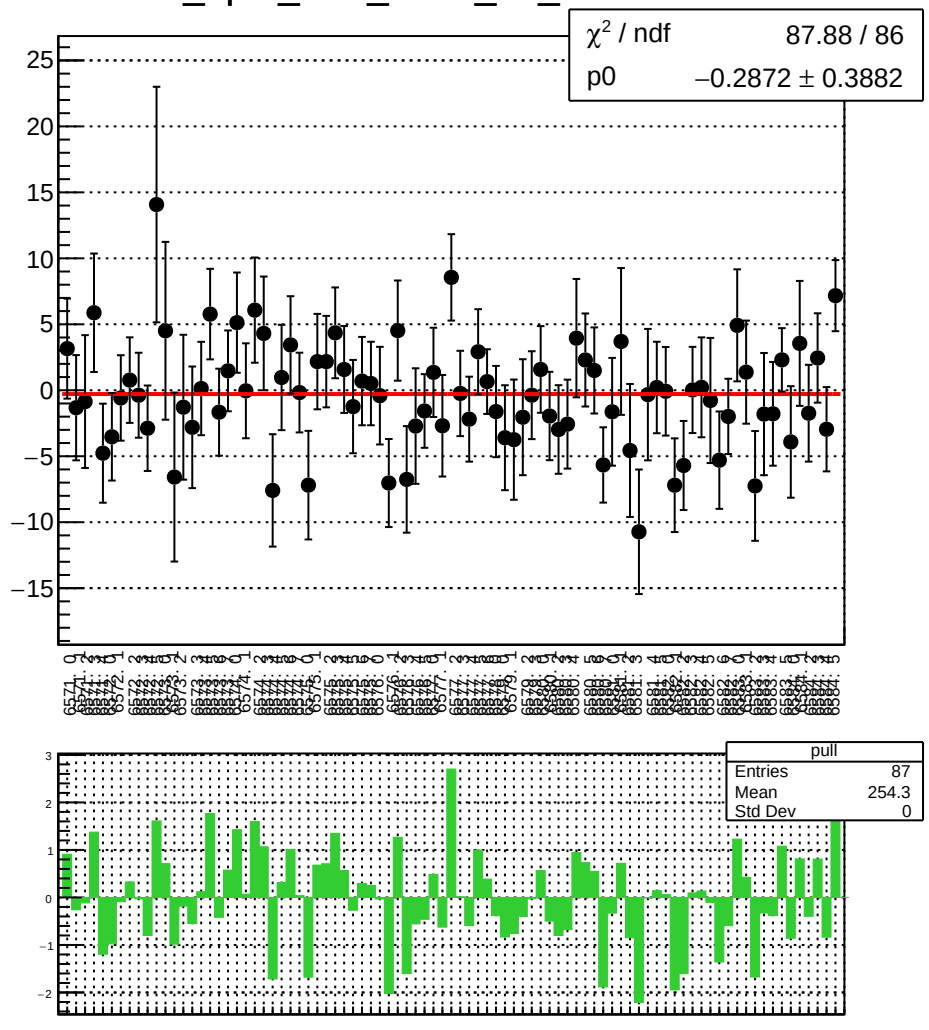

pull1D
Entries 87
Mean 0.002057
Std Dev 1.056

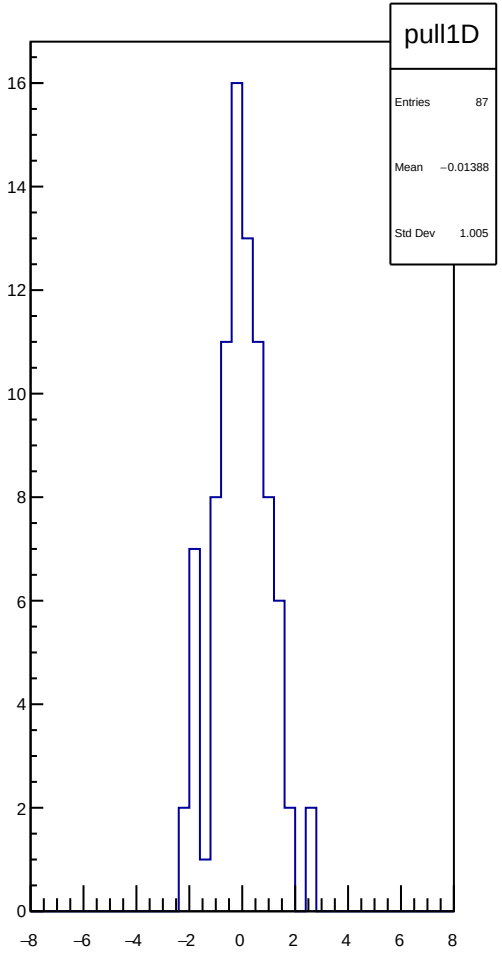

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1.048e+04 / 86
p0 448.2 ± 0.3462
800
750
700
650
600
550
500
450
400

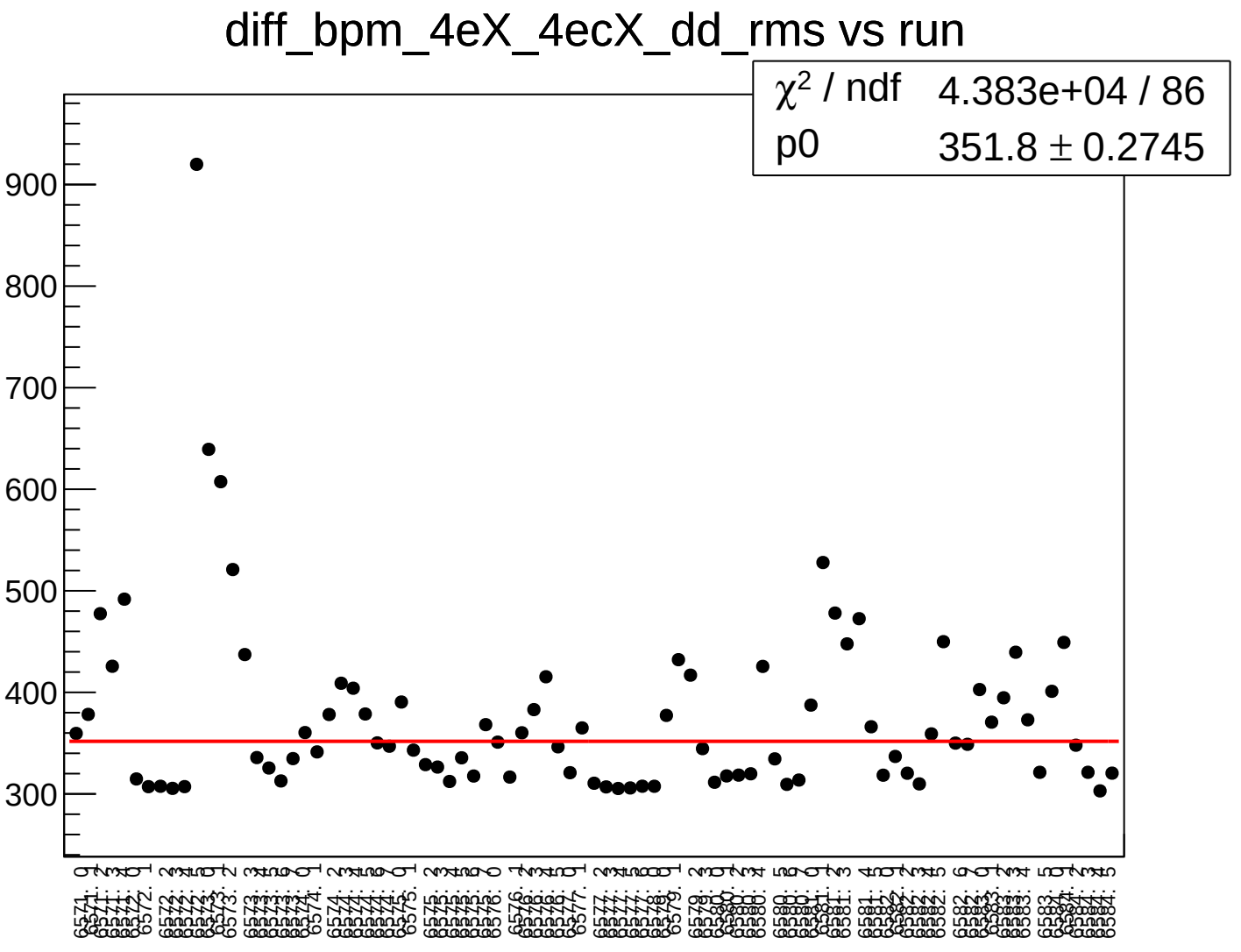

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 108.6 / 86
p0 −14.89 ± 7.911
pull
Entries 87
Mean 336.5
Std Dev 0

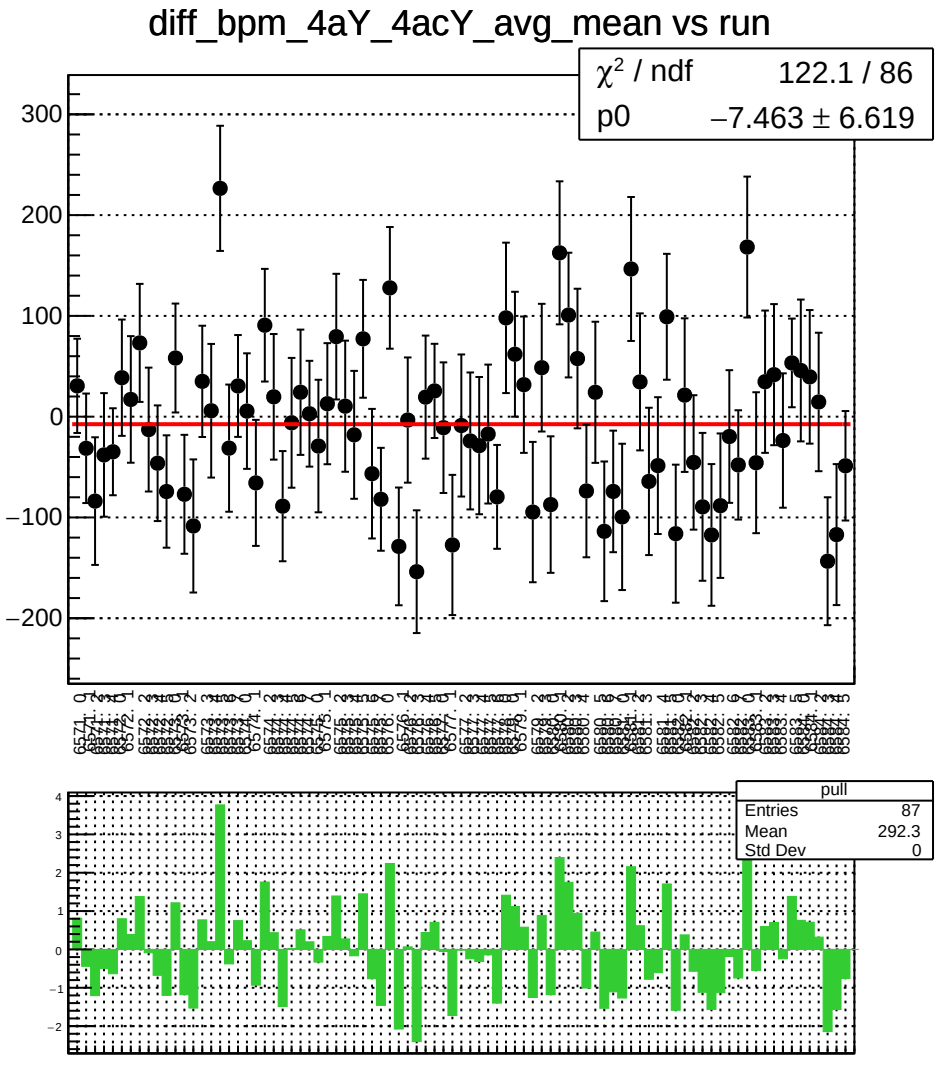

pull1D
Entries 87
Mean −0.006803
Std Dev 1.117

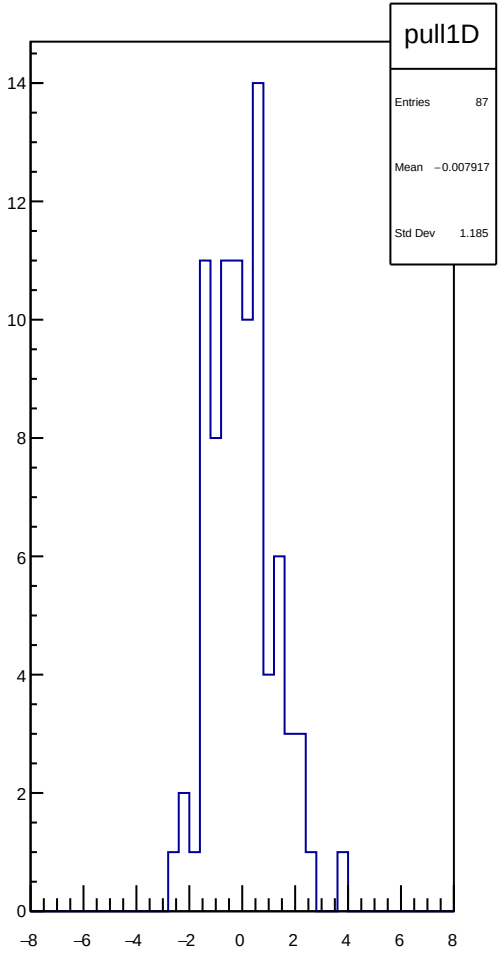

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.714e+04 / 86
p0 7228 ± 5.594
10000
9500
9000
8500
8000
7500
7000
6500
6000

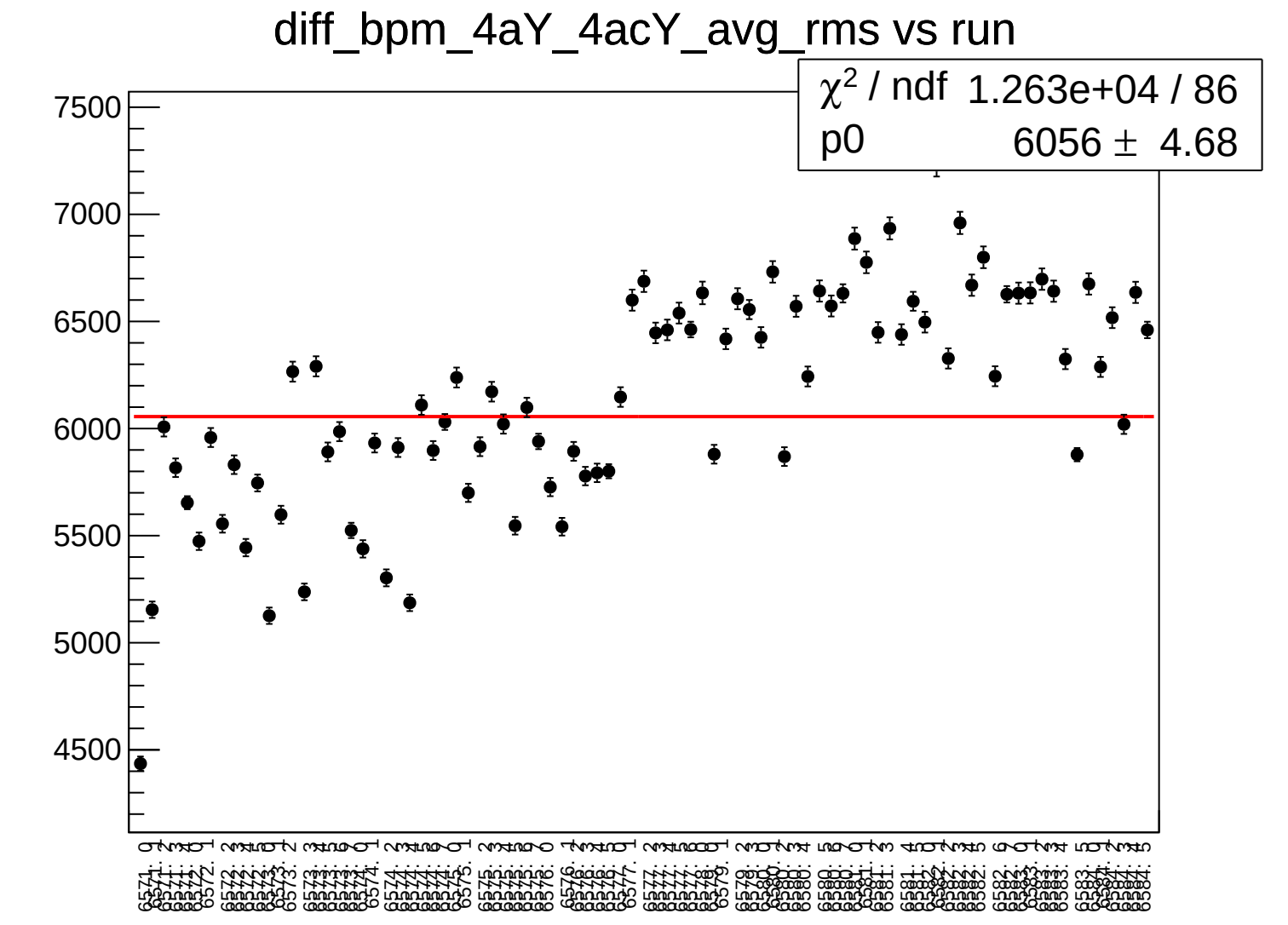

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 87.88 / 86
p0 −0.2872 ± 0.3882
pull
Entries 87
Mean 254.3
Std Dev 0

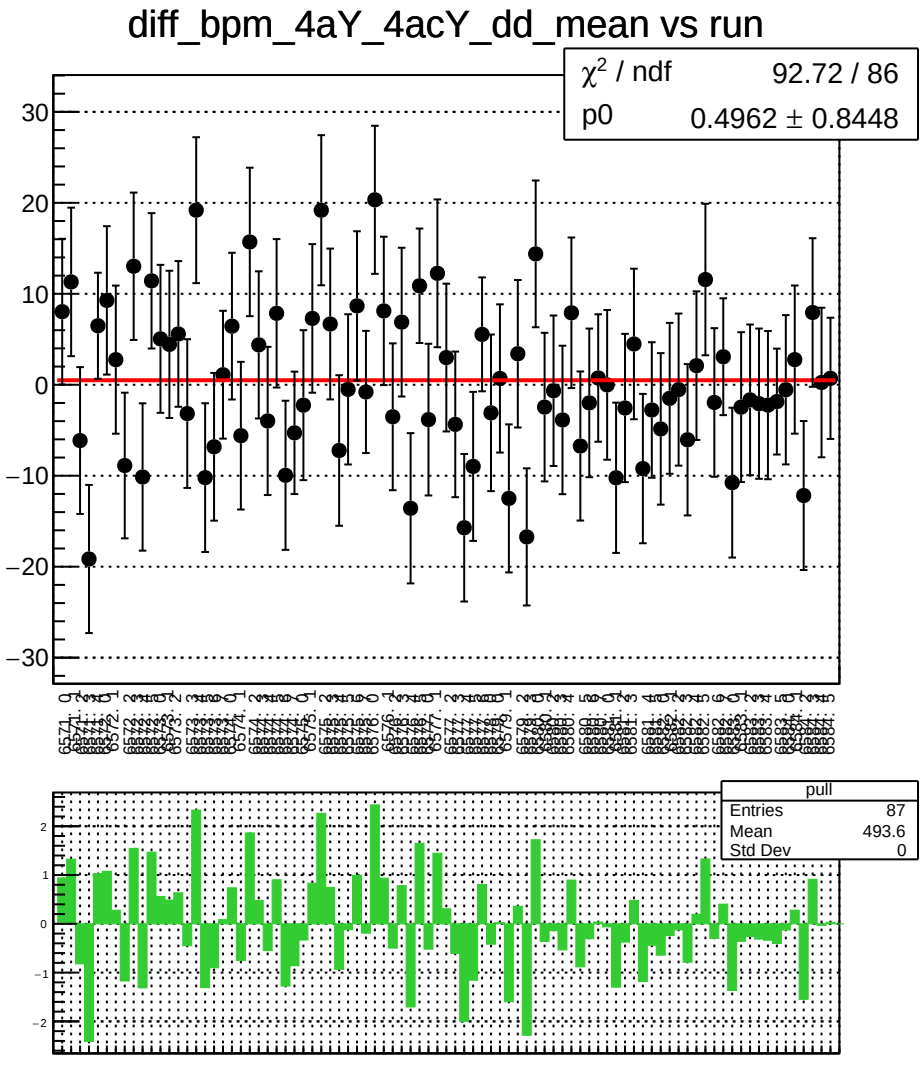

pull1D
Entries 87
Mean −0.01388
Std Dev 1.005

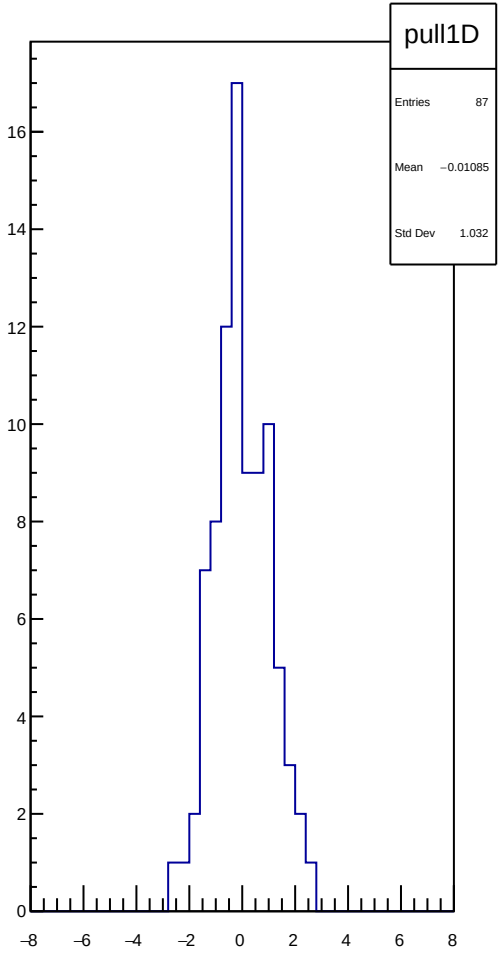

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 4.383e+04 / 86
p0 351.8 ± 0.2745
900
800
700
600
500
400
300

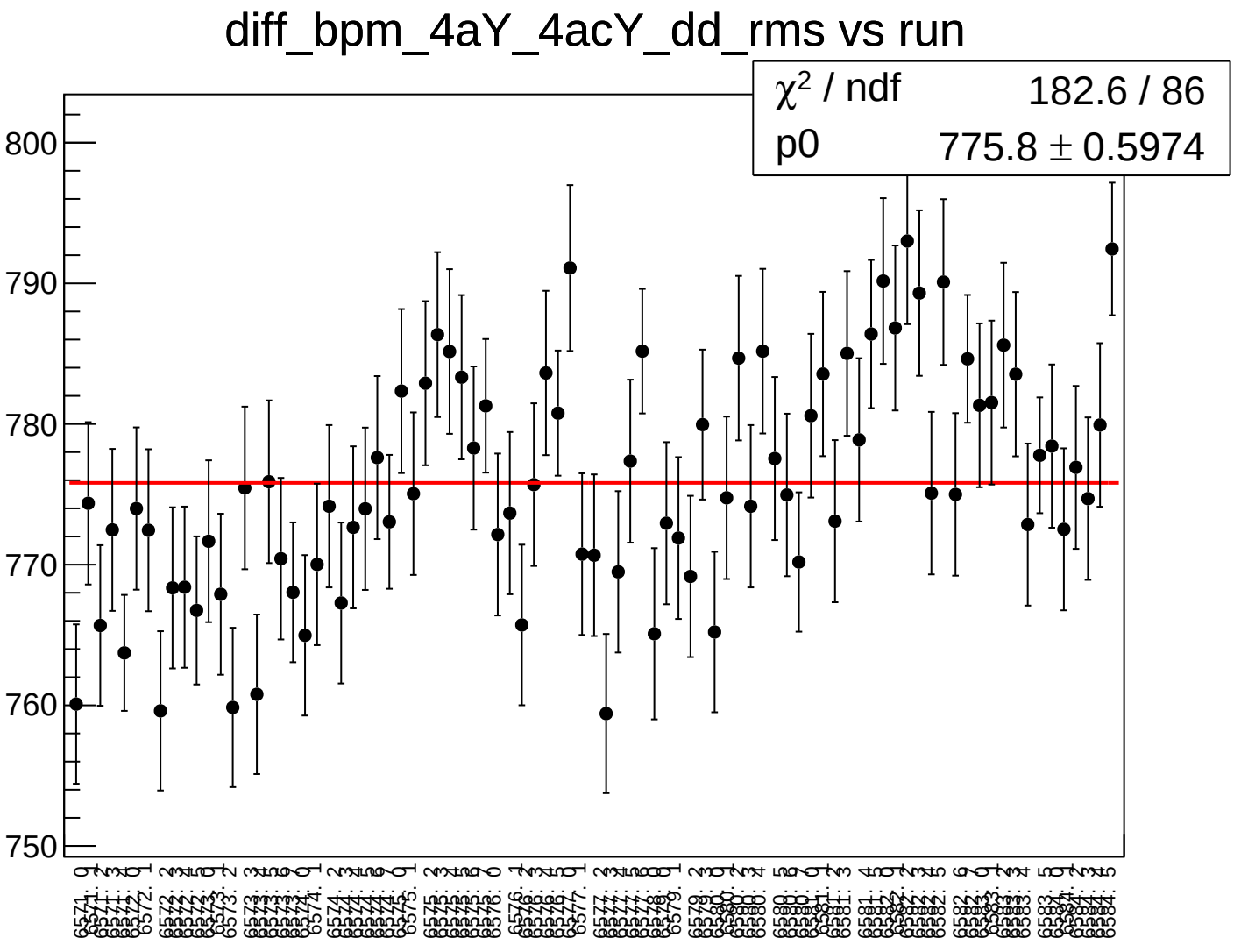

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 122.1 / 86
p0 −7.463 ± 6.619
pull
Entries 87
Mean 292.3
Std Dev 0

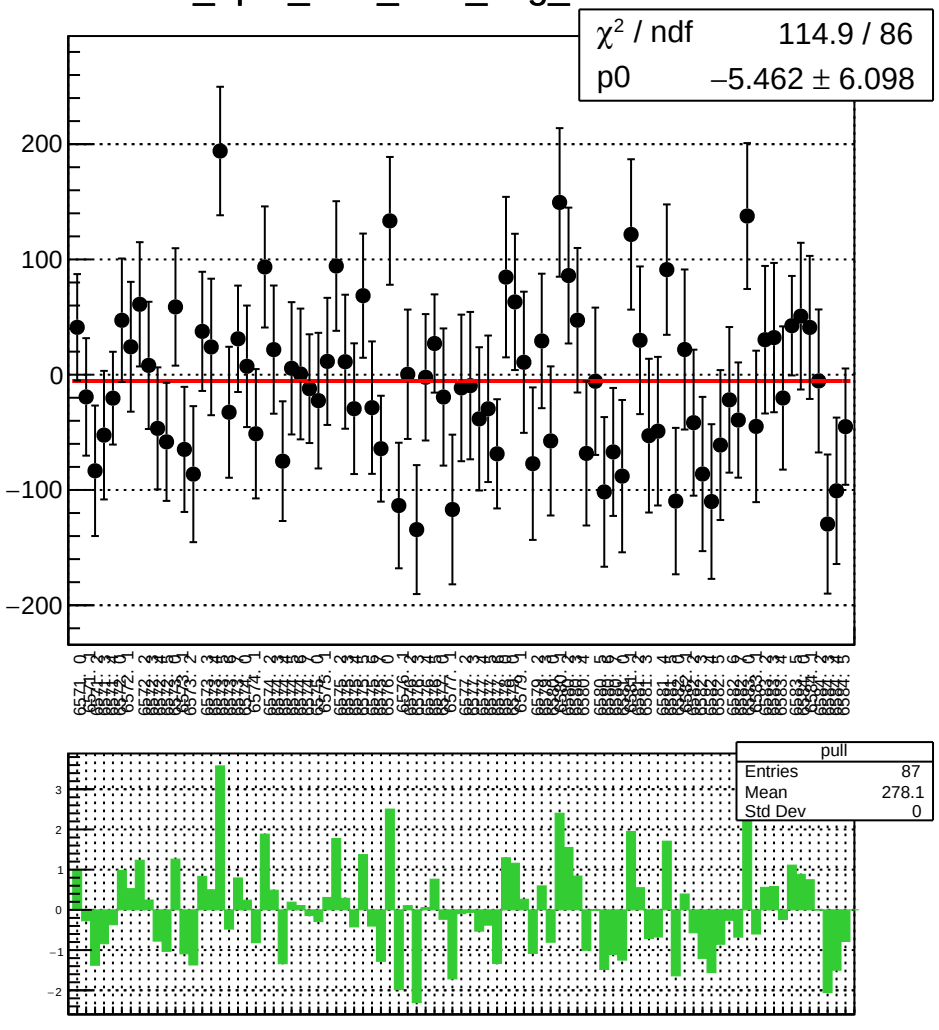

pull1D
Entries 87
Mean −0.007917
Std Dev 1.185

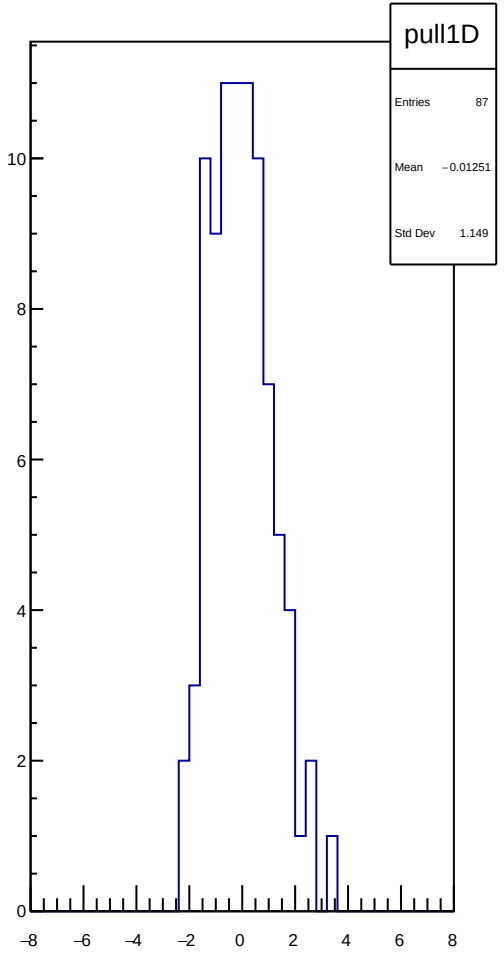

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1.263e+04 / 86
p0 6056 ± 4.68
7500
7000
6500
6000
5500
5000
4500

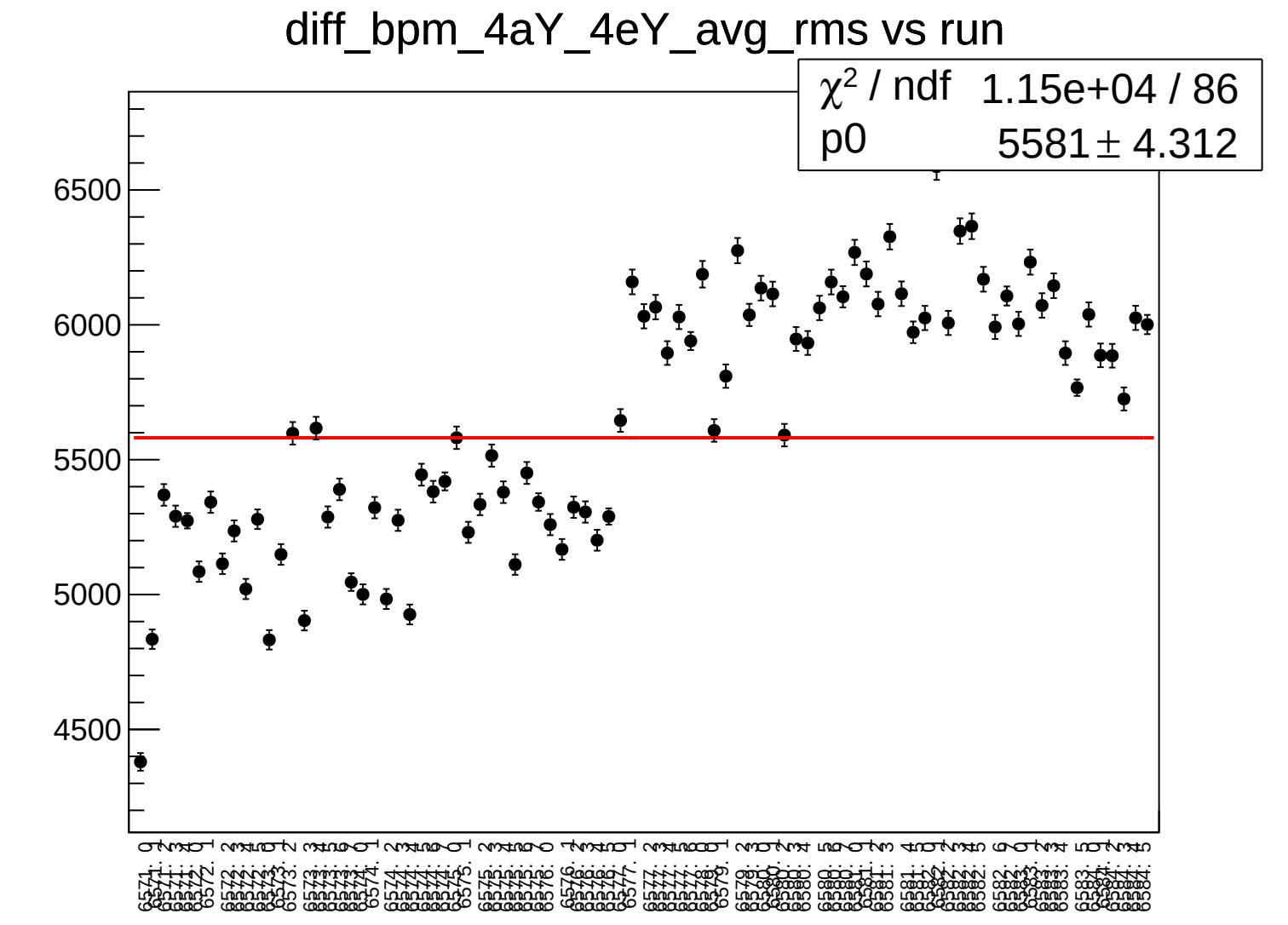

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 92.72 / 86
p0 0.4962 ± 0.8448
pull
Entries 87
Mean 493.6
Std Dev 0

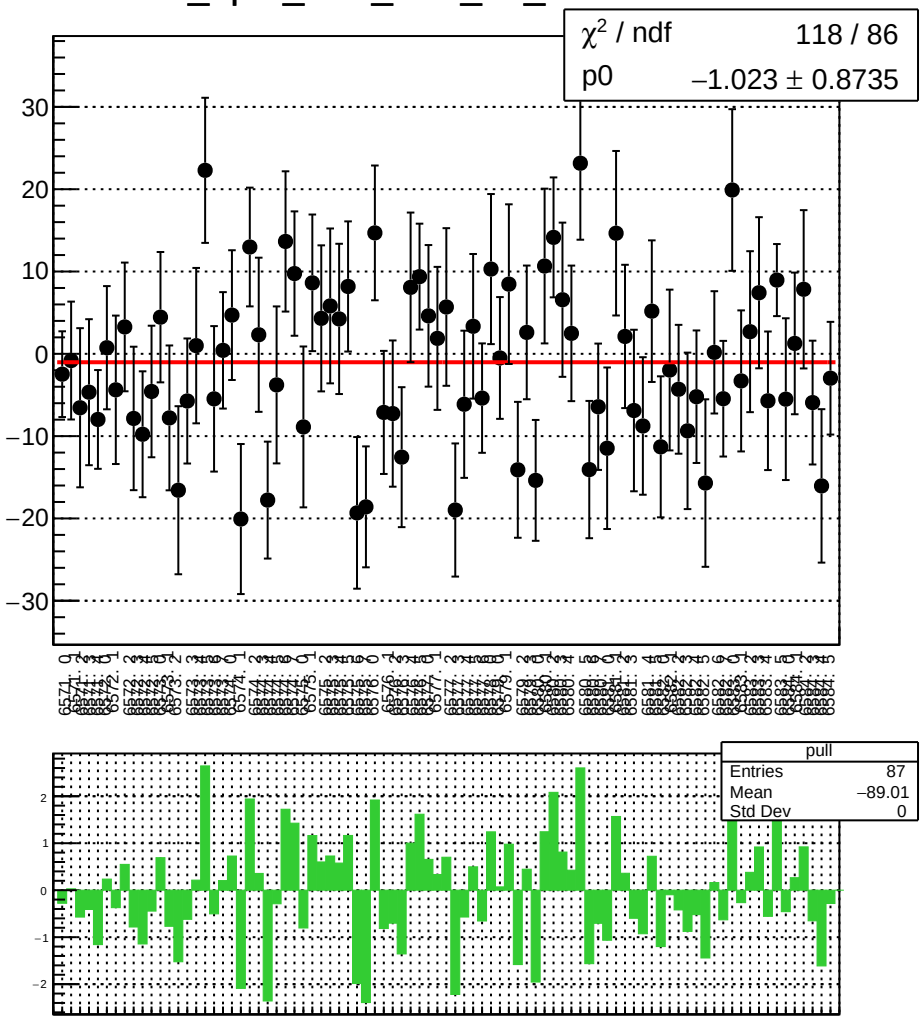

pull1D
Entries 87
Mean −0.01085
Std Dev 1.032

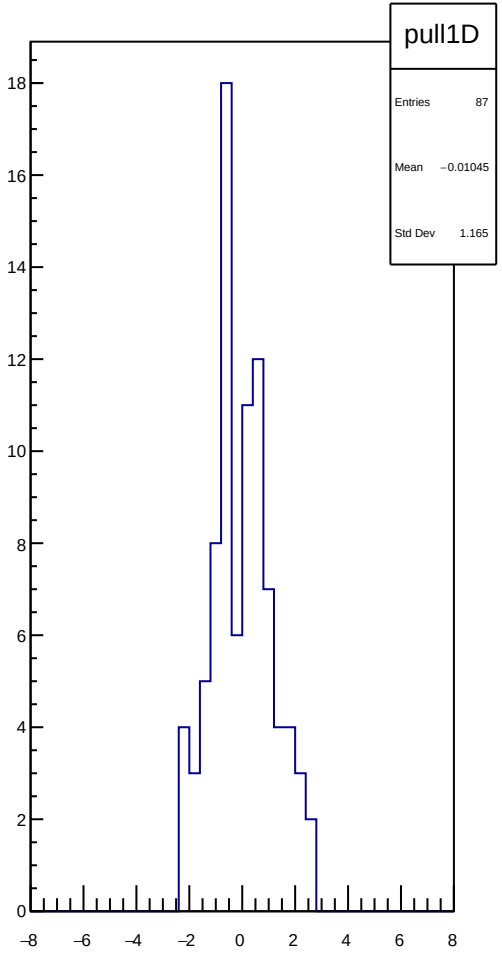

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 182.6 / 86
p0 775.8 ± 0.5974
800
790
780
770
760
750

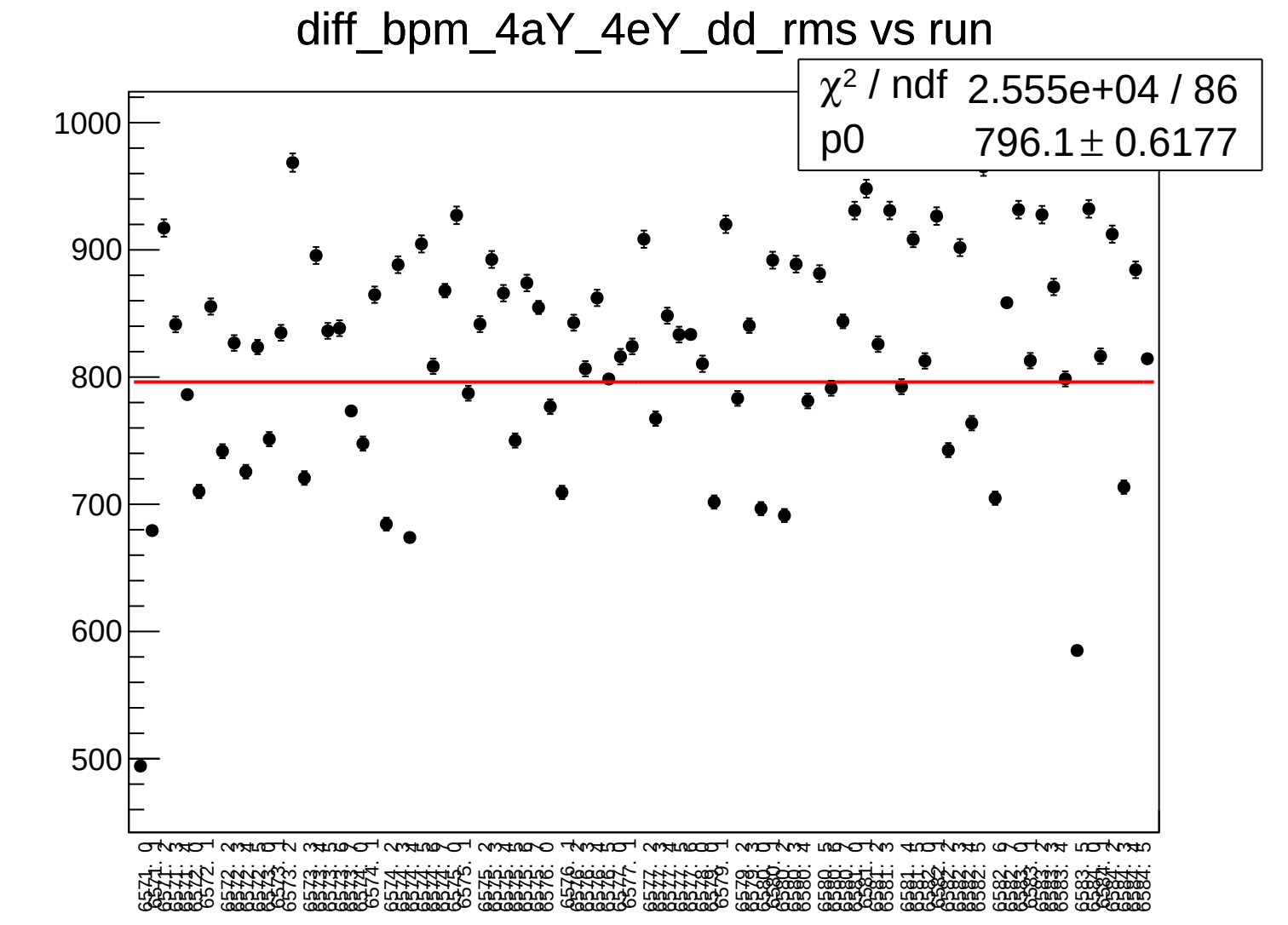

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 114.9 / 86
p0 −5.462 ± 6.098
200
100
0
−100
−200
pull
Entries 87
Mean 278.1
Std Dev 0
3
2
1
0
−1
−2

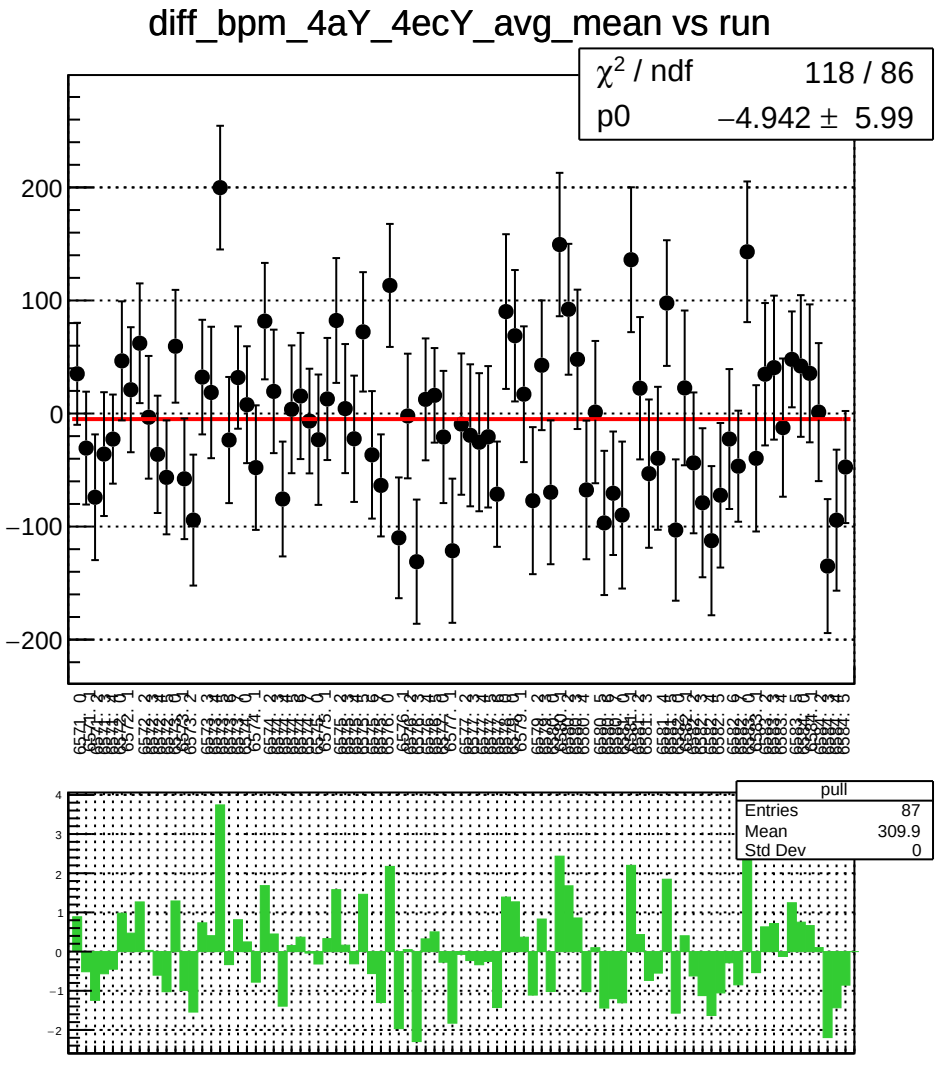

pull1D
Entries 87
Mean −0.01251
Std Dev 1.149
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

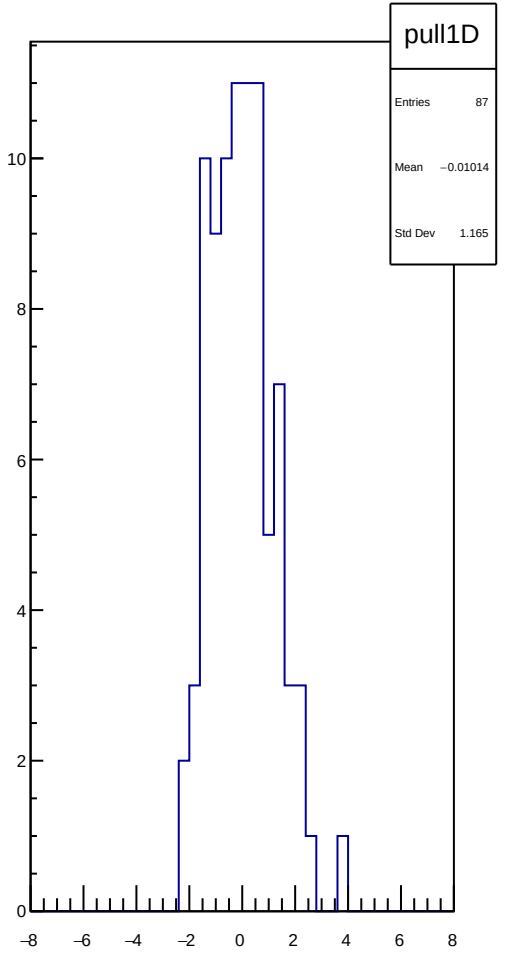

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1.15e+04 / 86
p0 5581 ± 4.312
6500
6000
5500
5000
4500

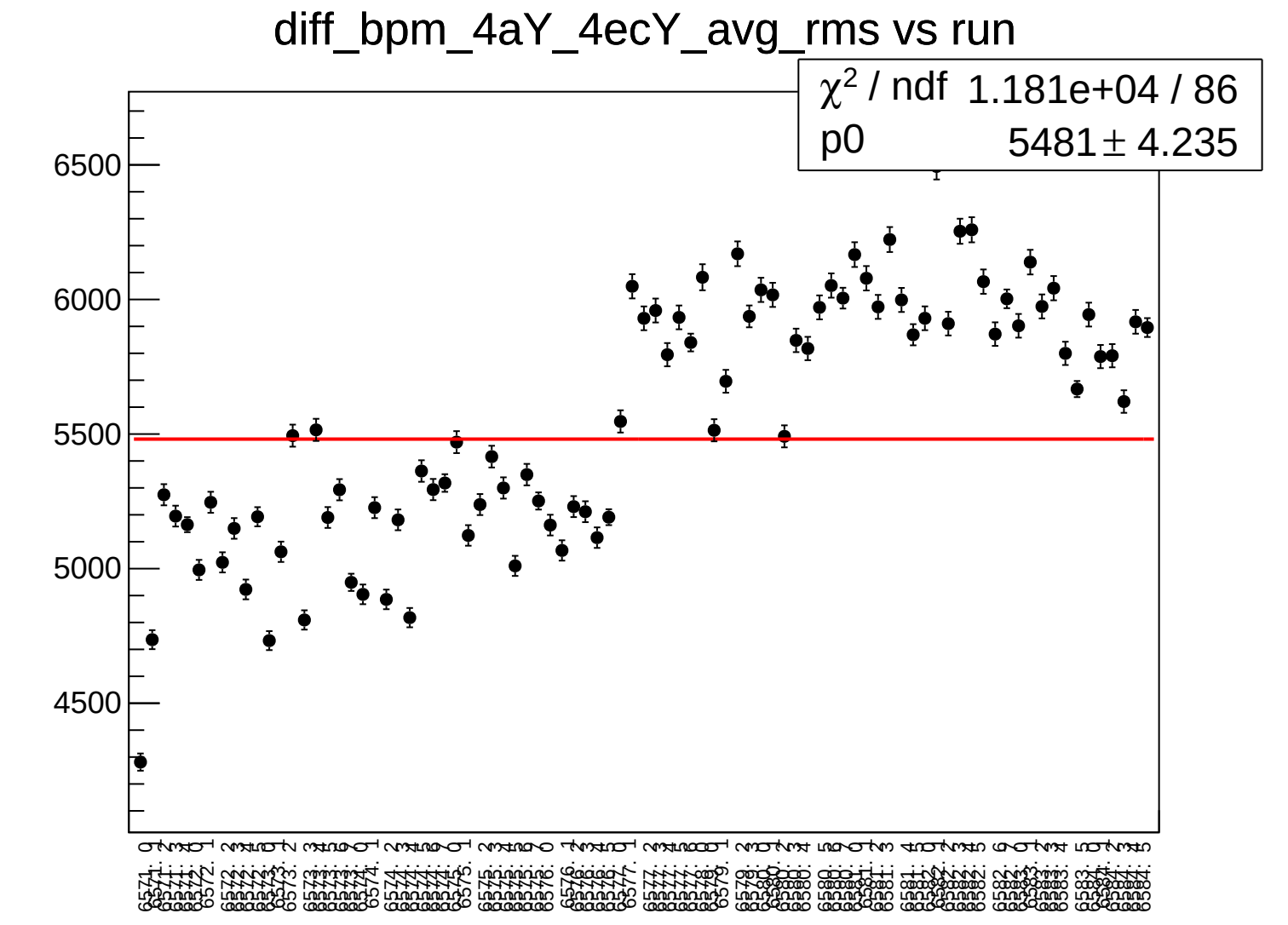

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 118 / 86
p0 −1.023 ± 0.8735
pull
Entries 87
Mean −89.01
Std Dev 0

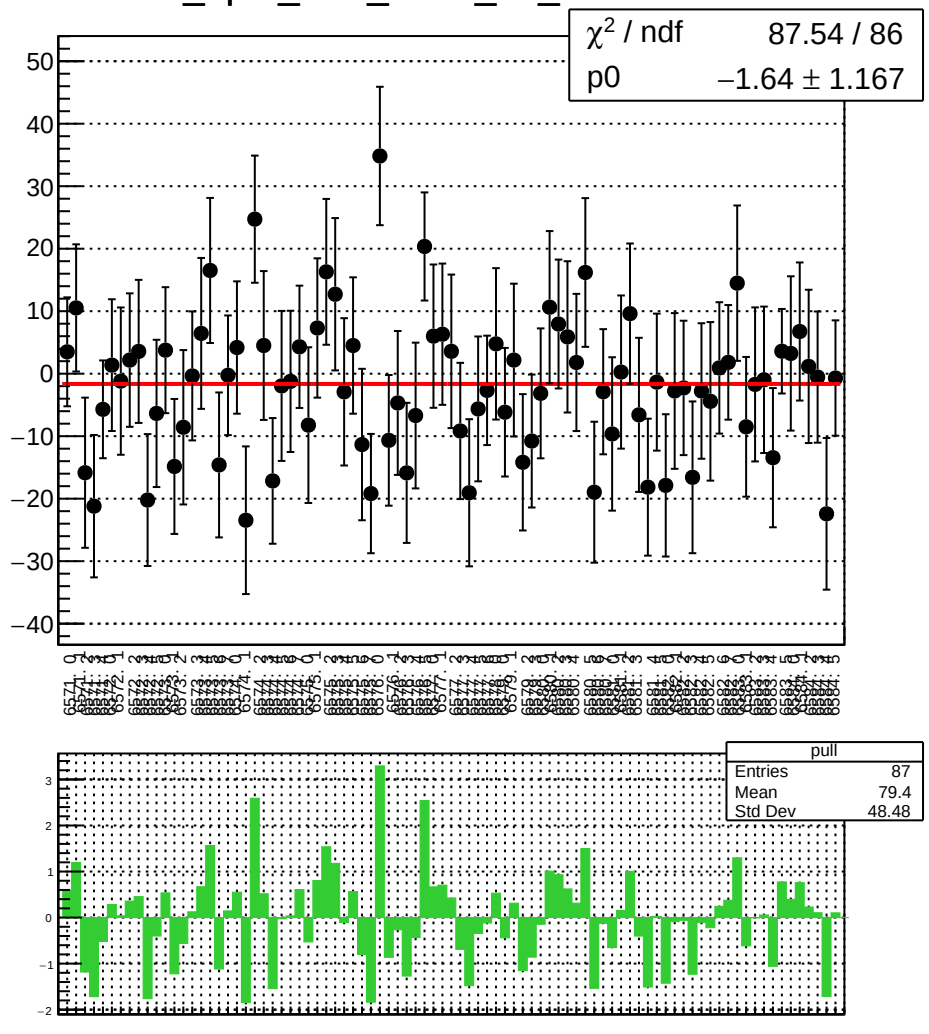

pull1D
Entries 87
Mean −0.01045
Std Dev 1.165

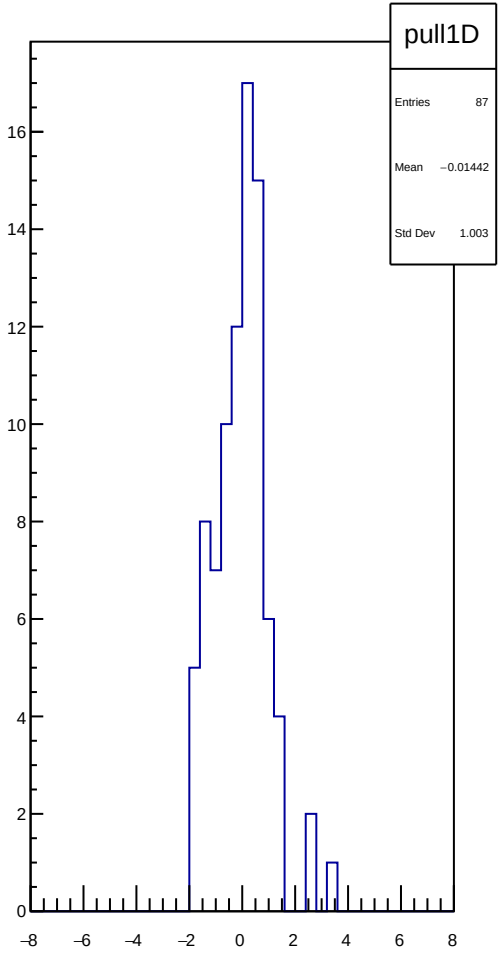

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 2.555e+04 / 86
p0 796.1 ± 0.6177
1000
900
800
700
600
500

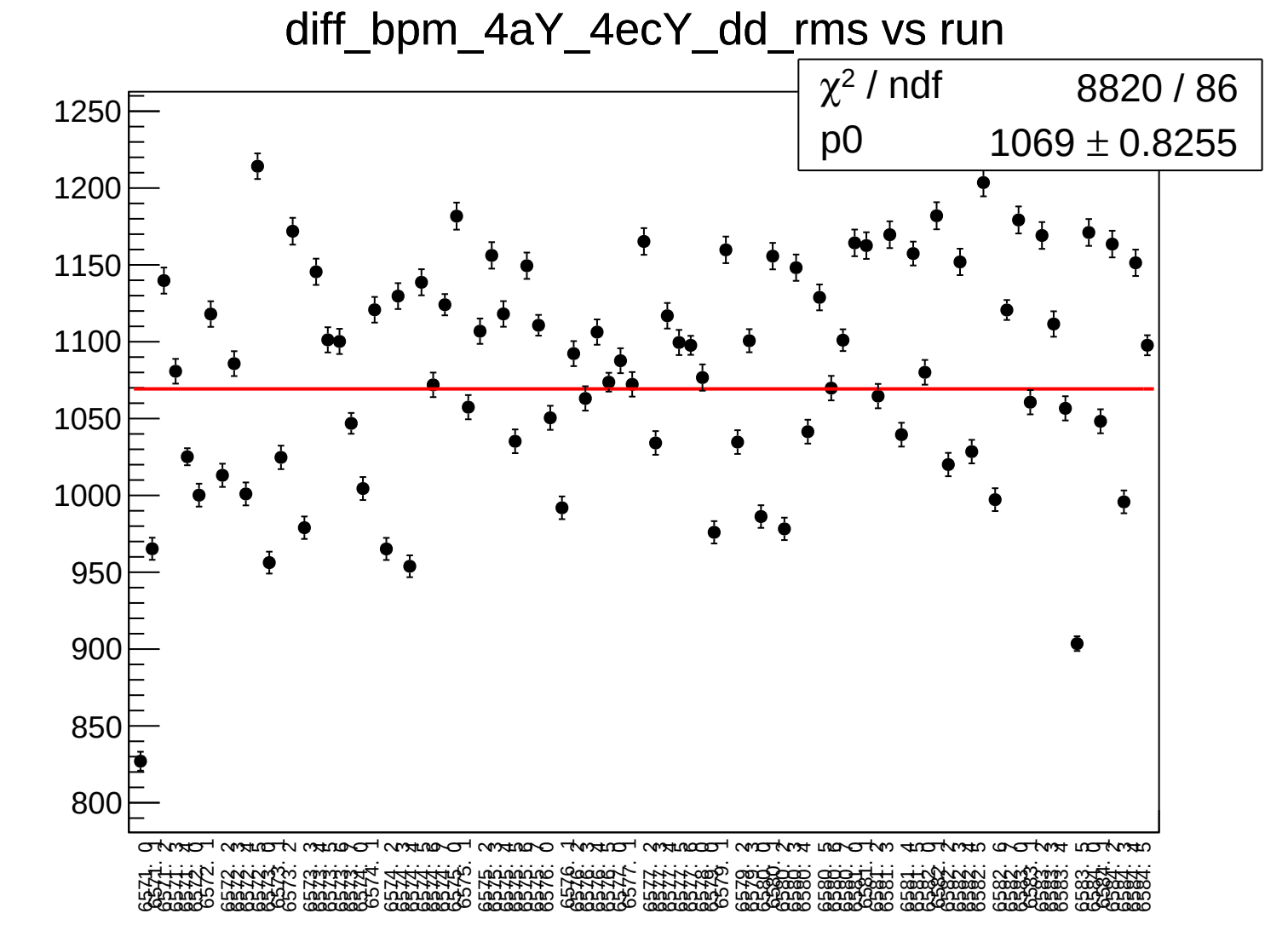

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 118 / 86
p0 −4.942 ± 5.99
200
100
0
−100
−200
pull
Entries 87
Mean 309.9
Std Dev 0
4
3
2
1
0
−1
−2

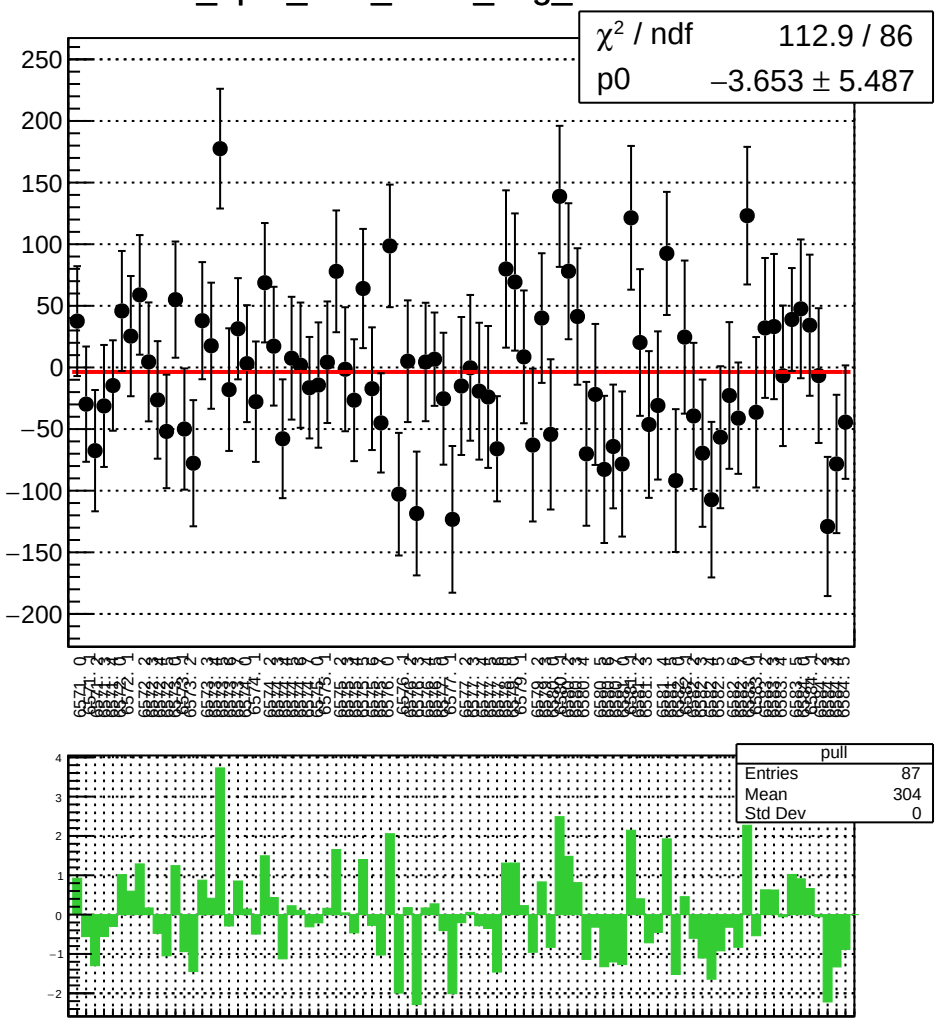

pull1D
Entries 87
Mean −0.01014
Std Dev 1.165
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

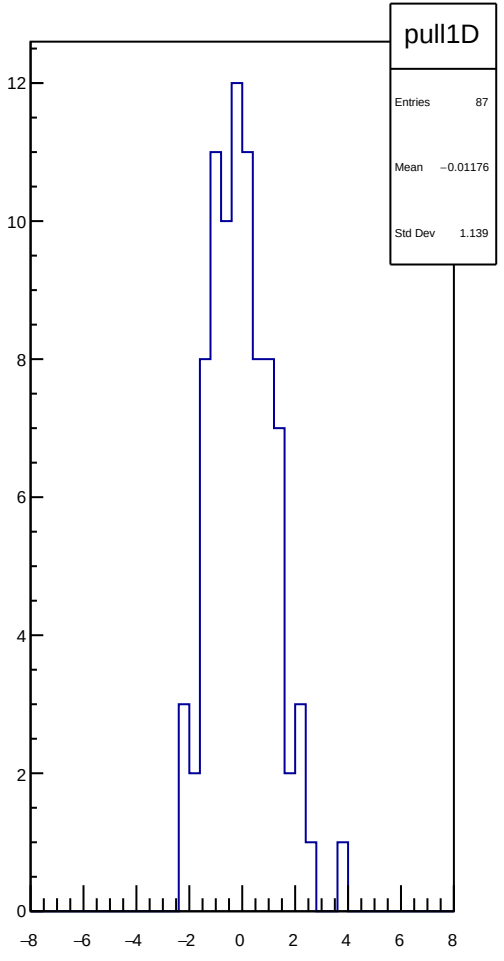

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1.181e+04 / 86
p0 5481 ± 4.235
6500
6000
5500
5000
4500

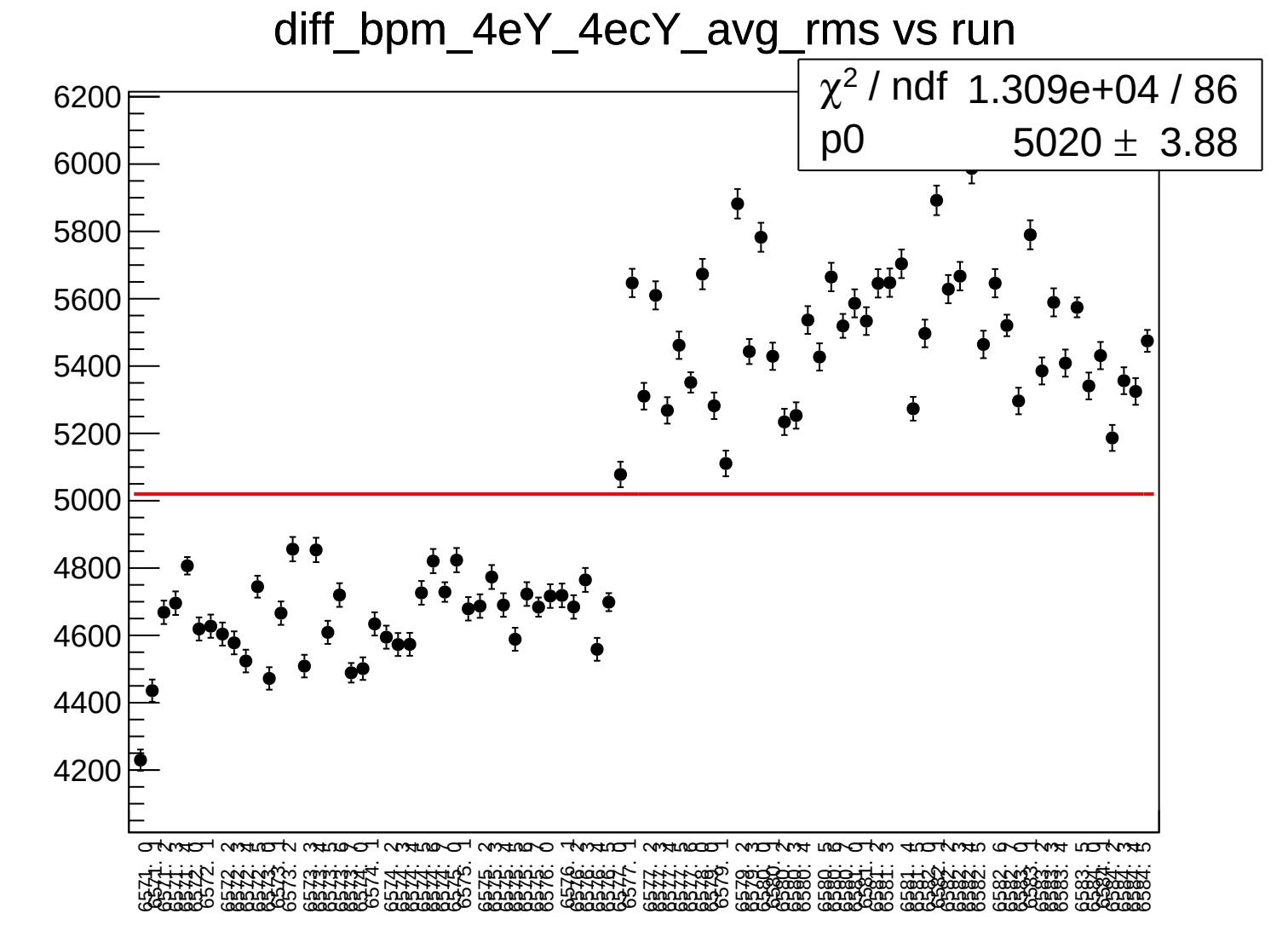

diff_bpm_4aY_4ecY_dd_mean vs run
χ^2 / ndf 87.54 / 86
p0 −1.64 ± 1.167
pull
Entries 87
Mean 79.4
Std Dev 48.48

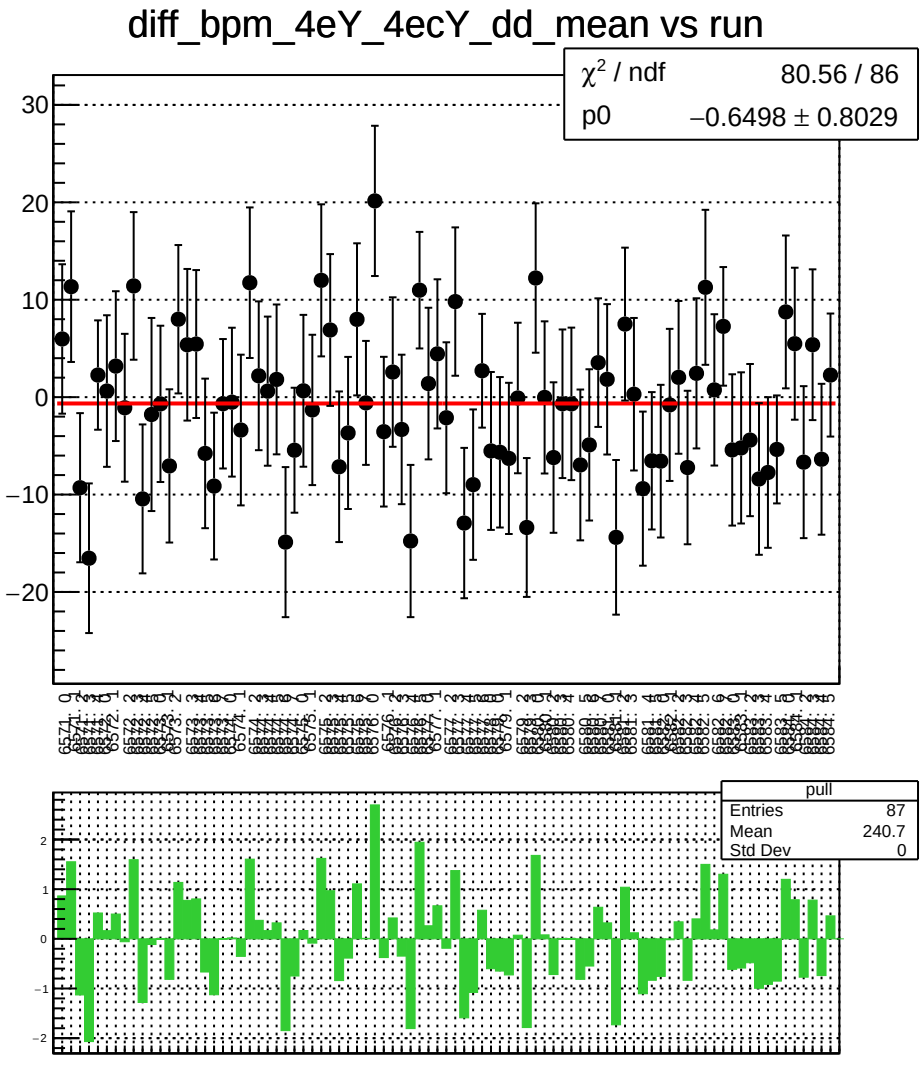

pull1D
Entries 87
Mean −0.01442
Std Dev 1.003

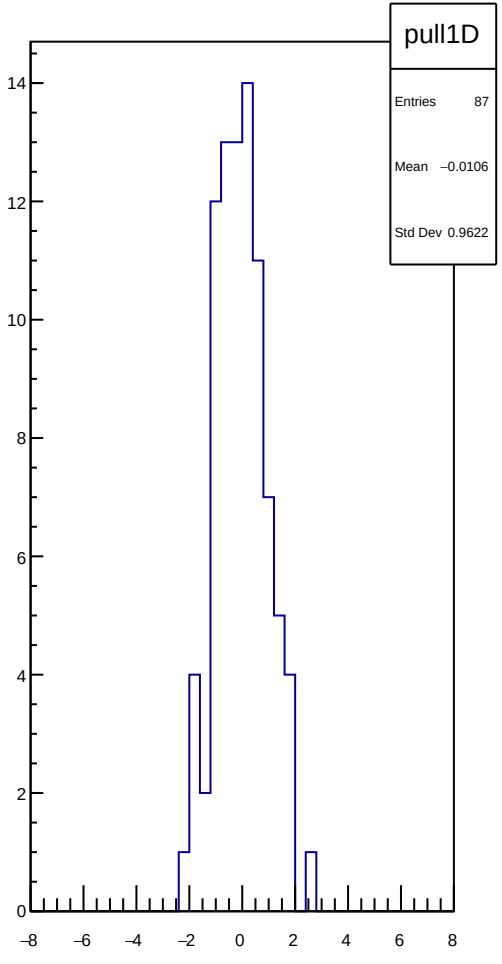

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 8820 / 86
p0 1069 ± 0.8255
1250
1200
1150
1100
1050
1000
950
900
850
800

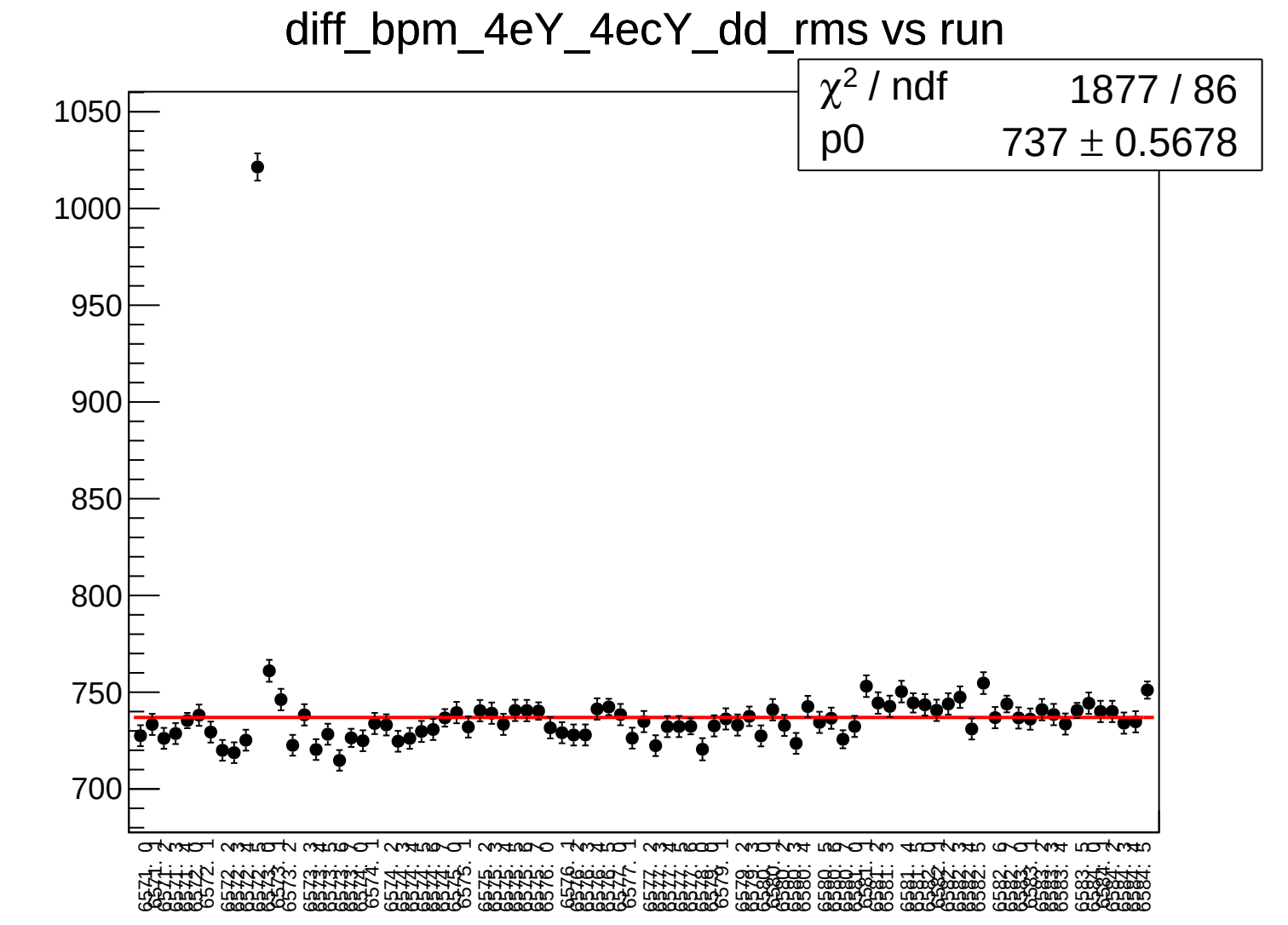

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 112.9 / 86
p0 −3.653 ± 5.487
pull
Entries 87
Mean 304
Std Dev 0

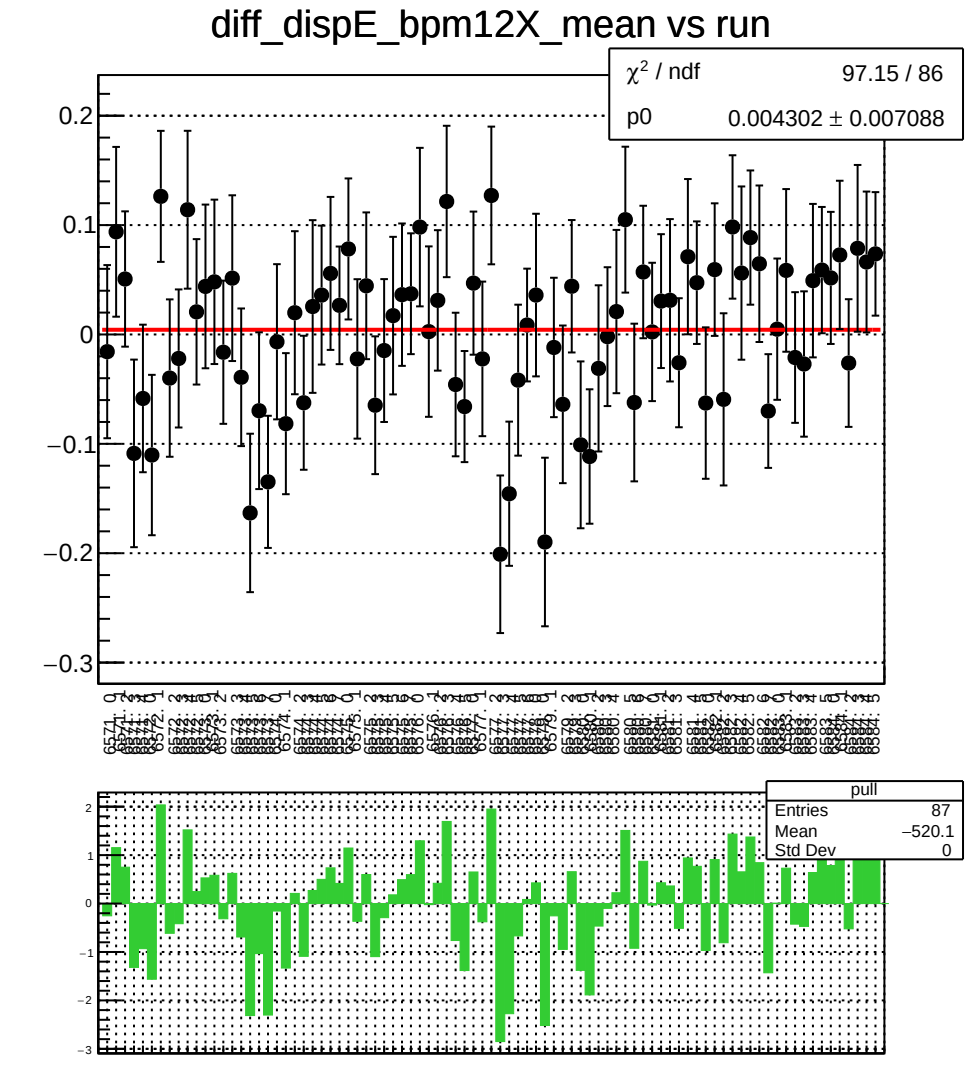

pull1D
Entries 87
Mean −0.01176
Std Dev 1.139

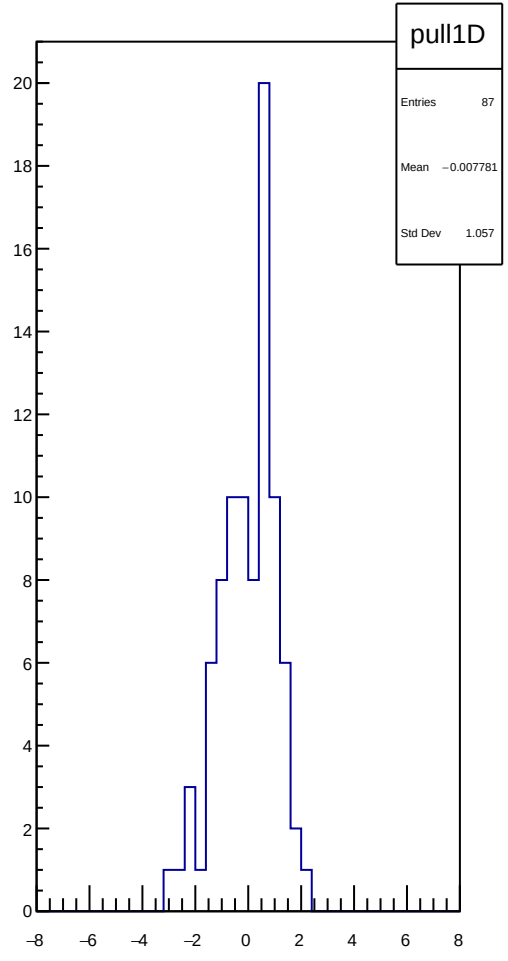

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.309e+04 / 86
p0 5020 ± 3.88
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

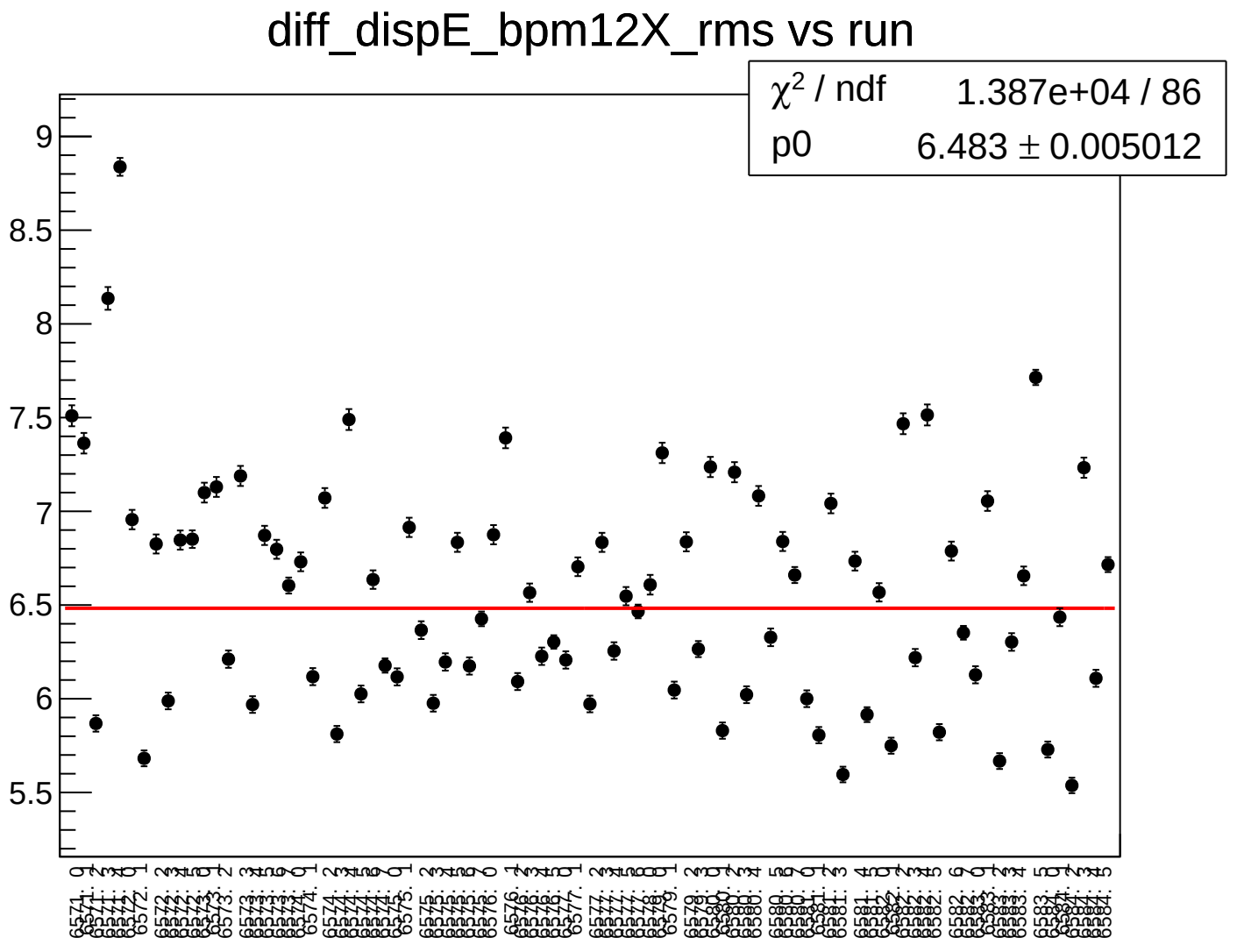

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 80.56 / 86
p0 −0.6498 ± 0.8029
pull
Entries 87
Mean 240.7
Std Dev 0

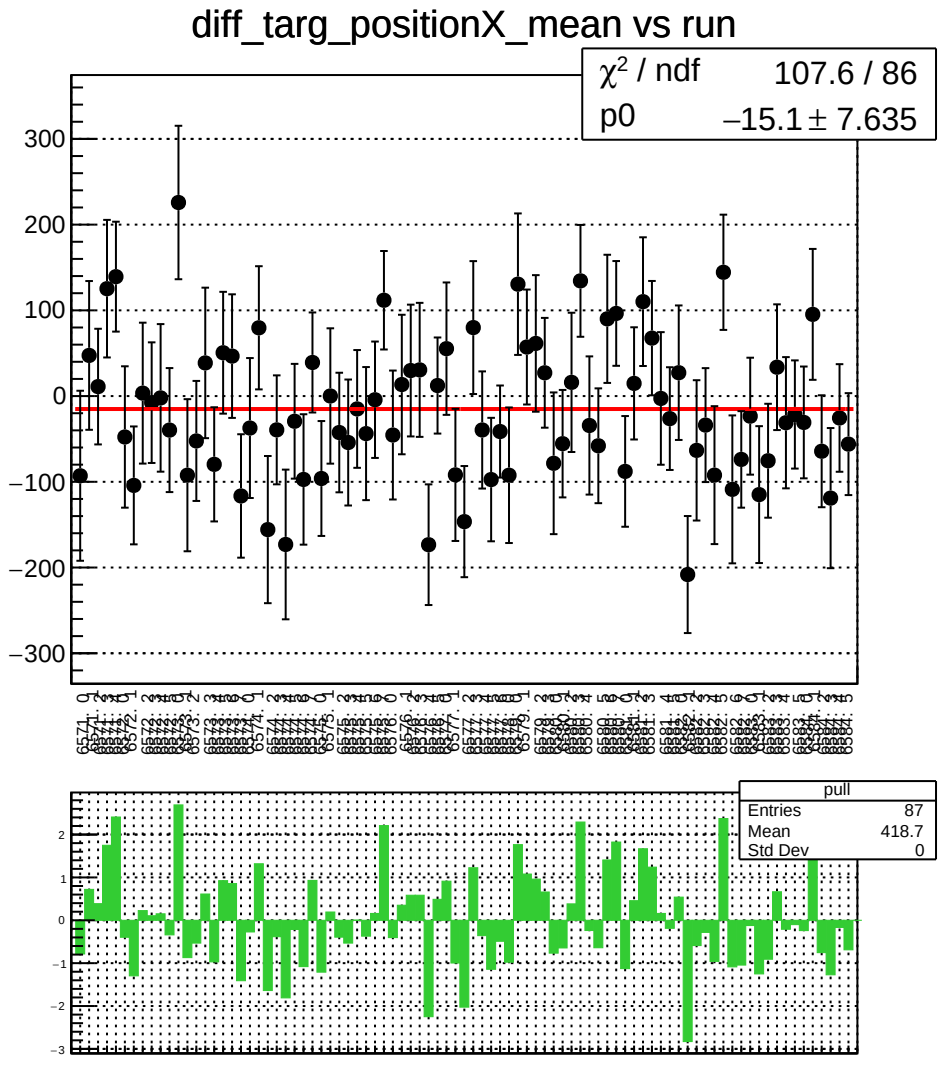

pull1D
Entries 87
Mean −0.0106
Std Dev 0.9622

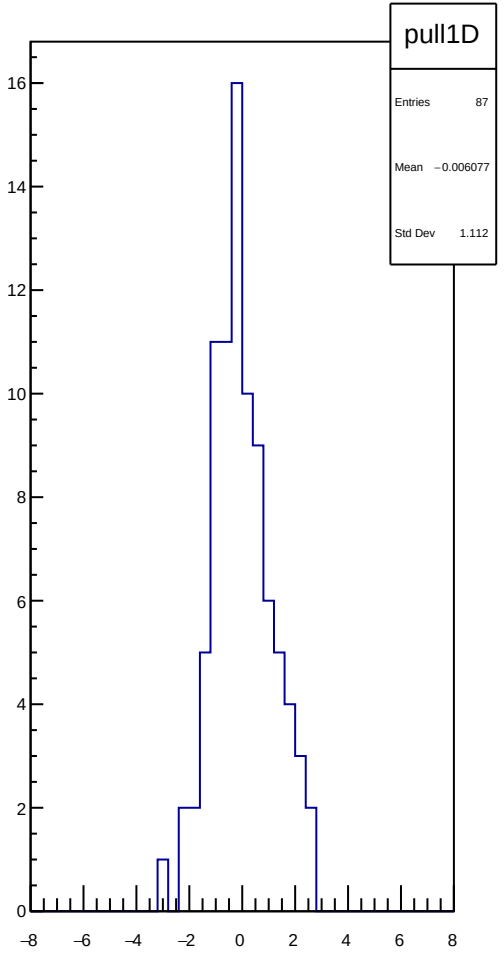

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 1877 / 86
p0 737 ± 0.5678
1050
1000
950
900
850
800
750
700

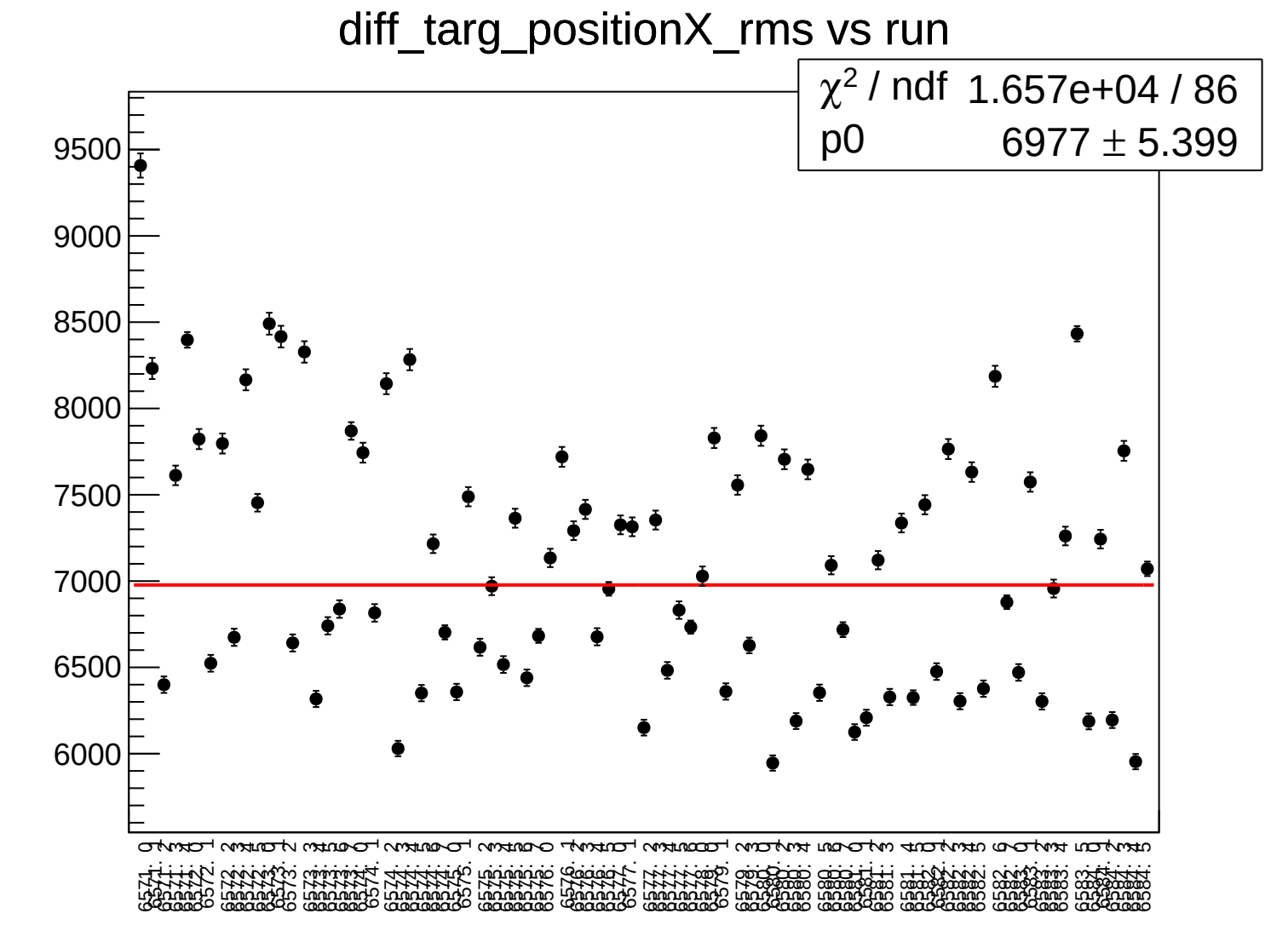

diff_dispE_bpm12X_mean vs run
χ² / ndf 97.15 / 86
p0 0.004302 ± 0.007088
pull
Entries 87
Mean −520.1
Std Dev 0

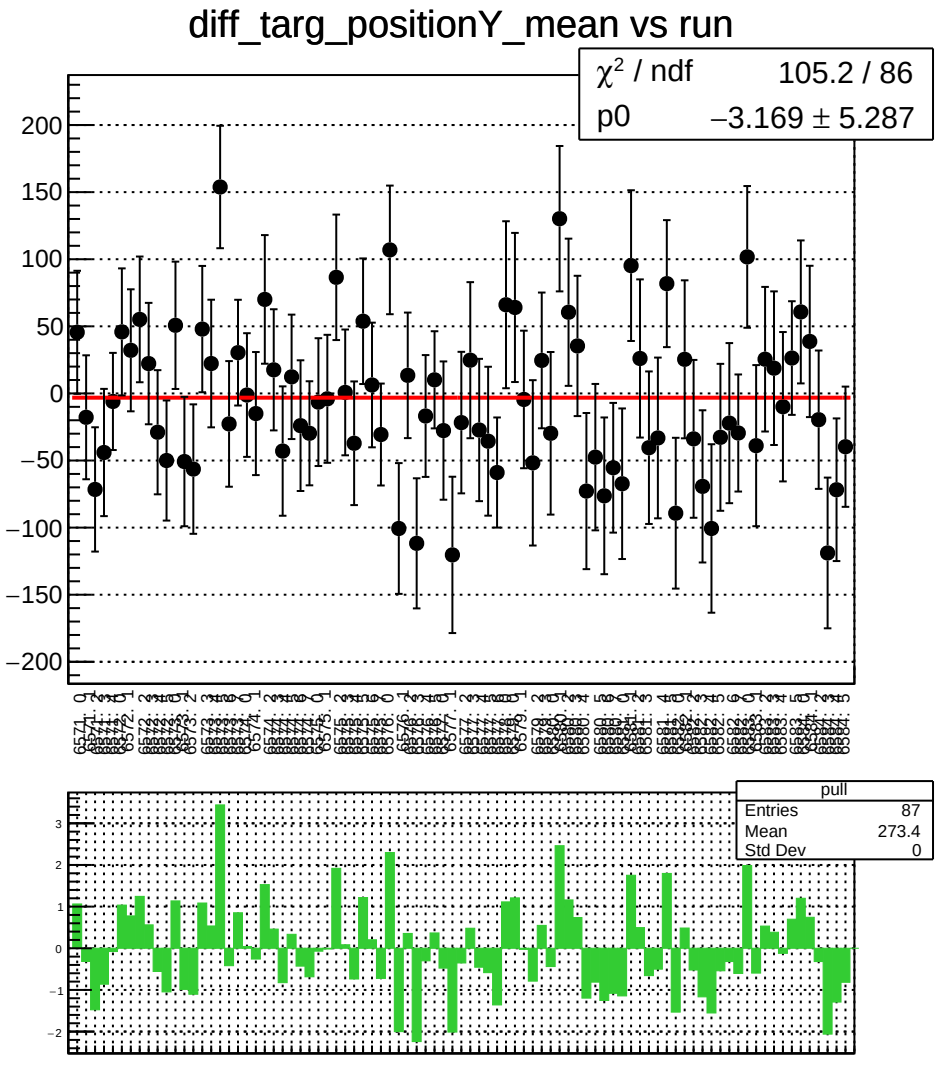

pull1D
Entries 87
Mean −0.007781
Std Dev 1.057

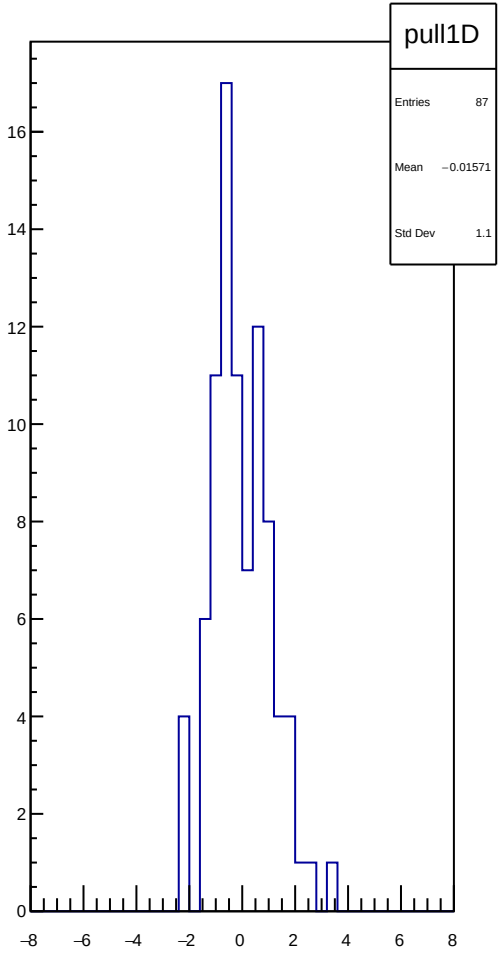

diff_dispE_bpm12X_rms vs run
χ² / ndf 1.387e+04 / 86
p0 6.483 ± 0.005012
9
8.5
8
7.5
7
6.5
6
5.5

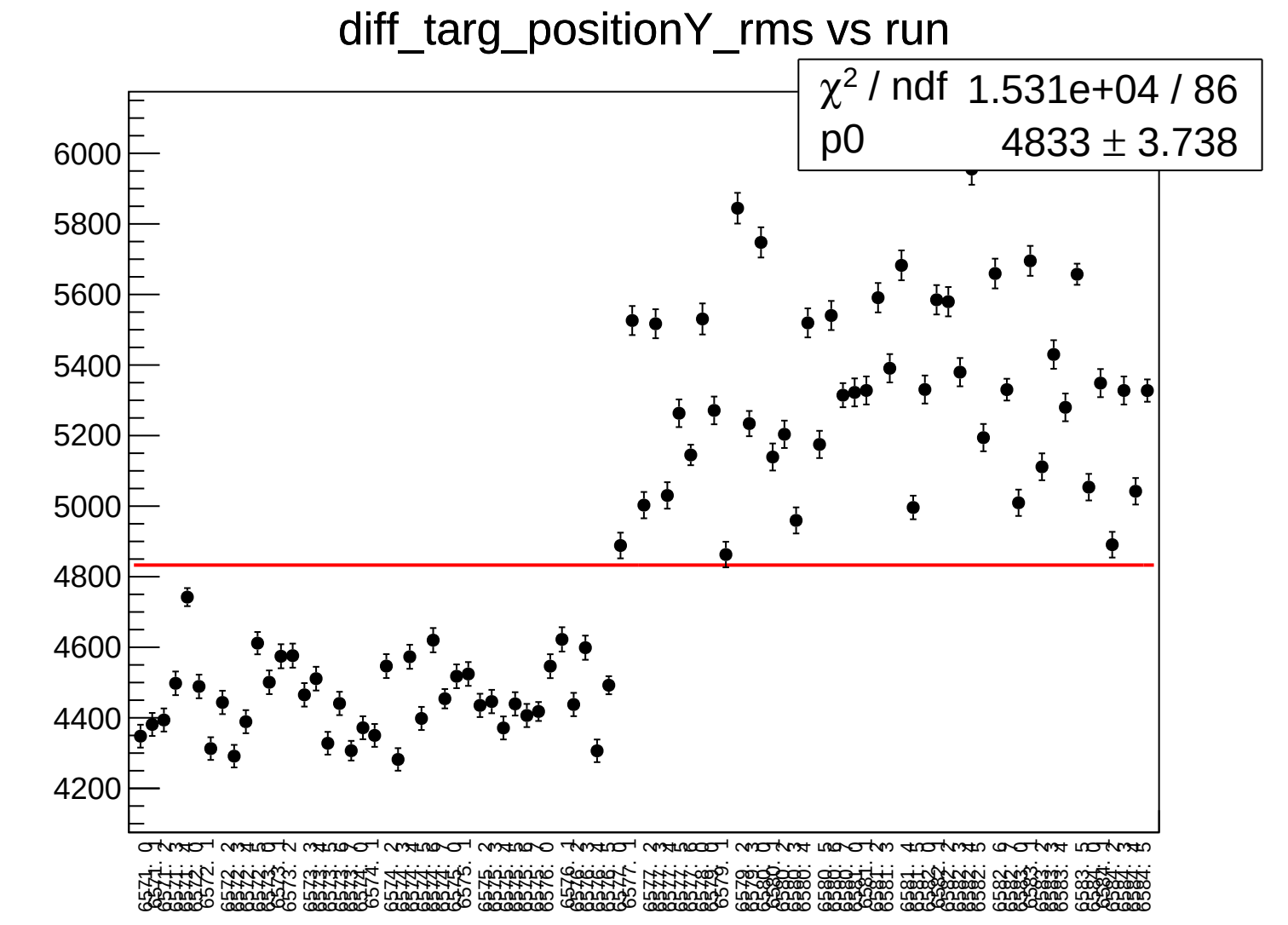

diff_targ_positionX_mean vs run
χ² / ndf 107.6 / 86
p0 −15.1 ± 7.635
pull
Entries 87
Mean 418.7
Std Dev 0

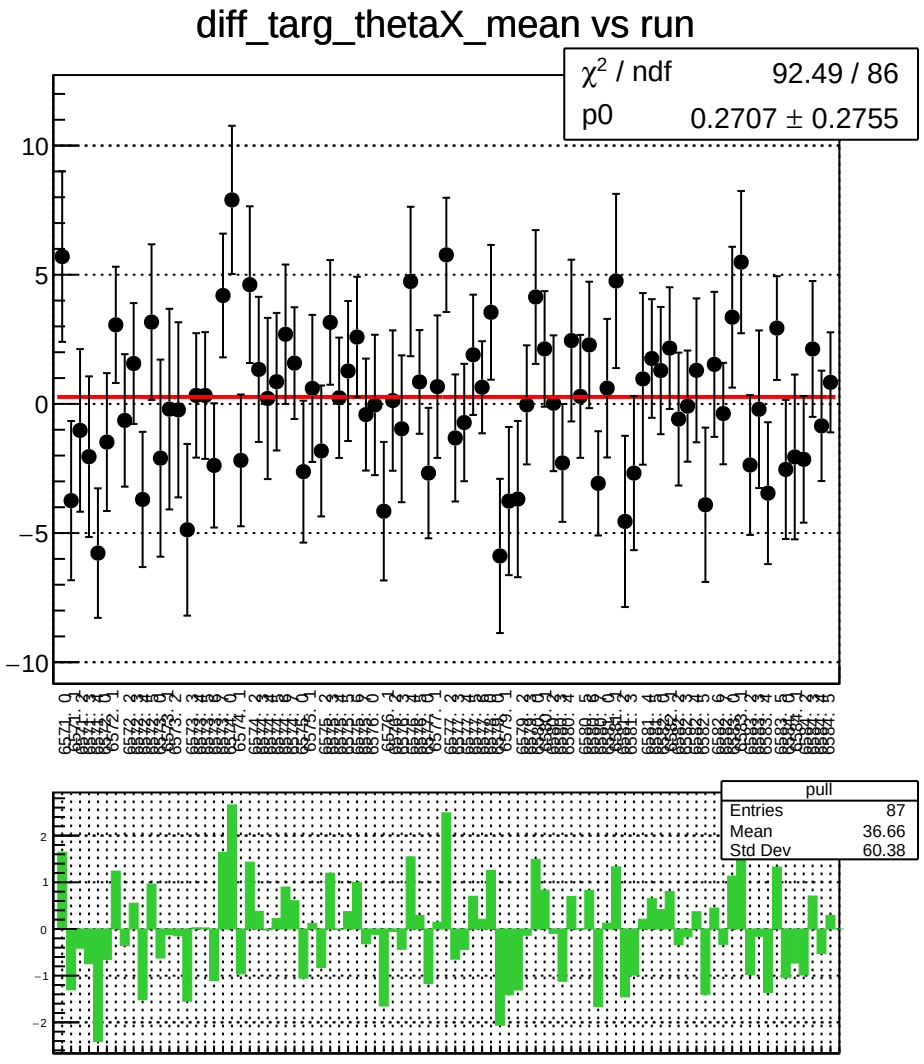

pull1D
Entries 87
Mean −0.006077
Std Dev 1.112

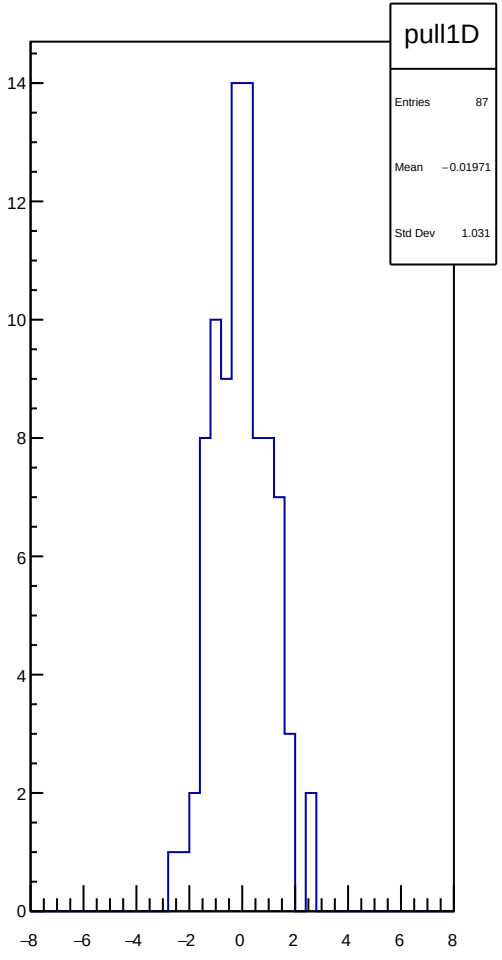

diff_targ_positionX_rms vs run
χ^2 / ndf 1.657e+04 / 86
p0 6977 ± 5.399
9500
9000
8500
8000
7500
7000
6500
6000

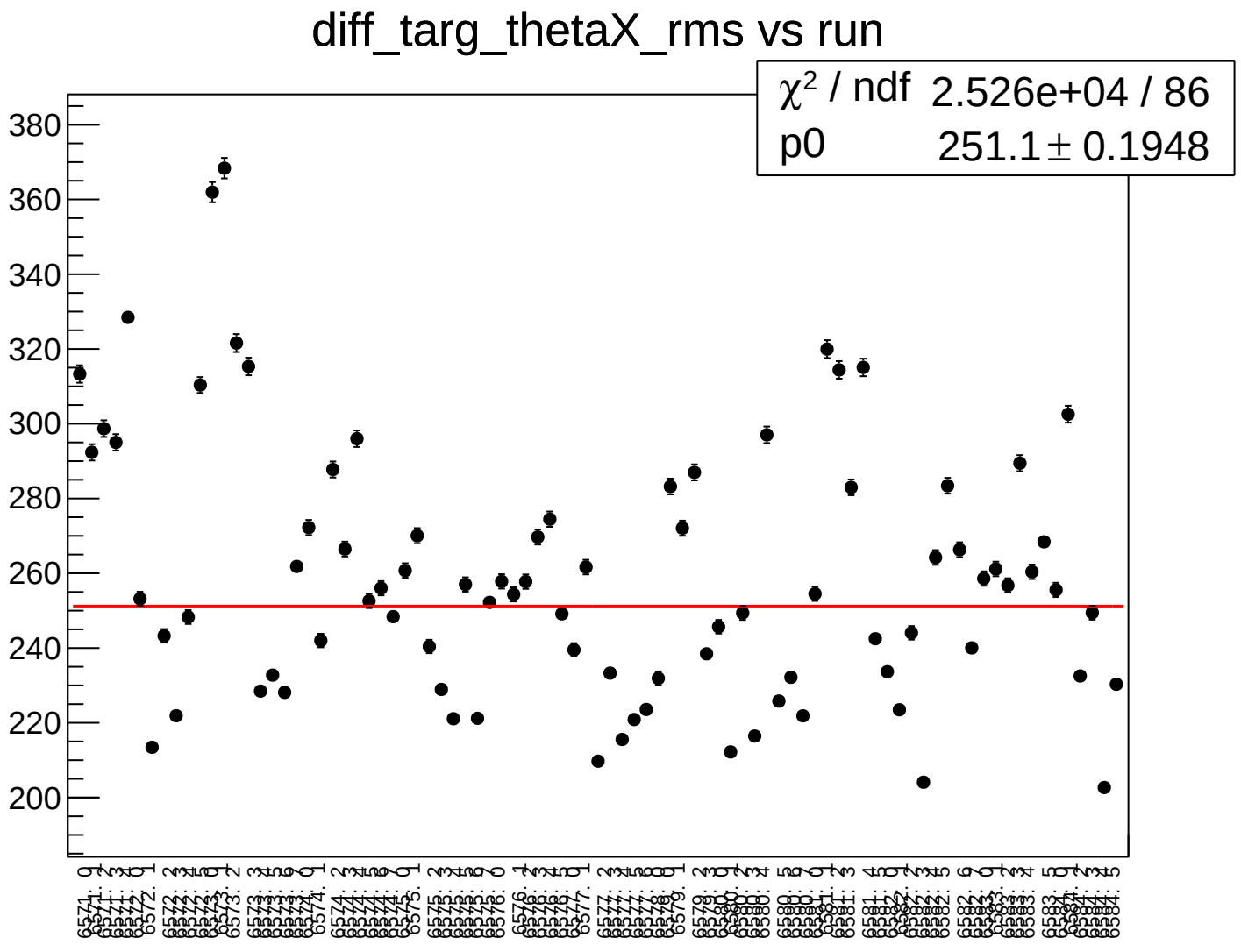

diff_targ_positionY_mean vs run
χ² / ndf 105.2 / 86
p0 −3.169 ± 5.287
pull
Entries 87
Mean 273.4
Std Dev 0

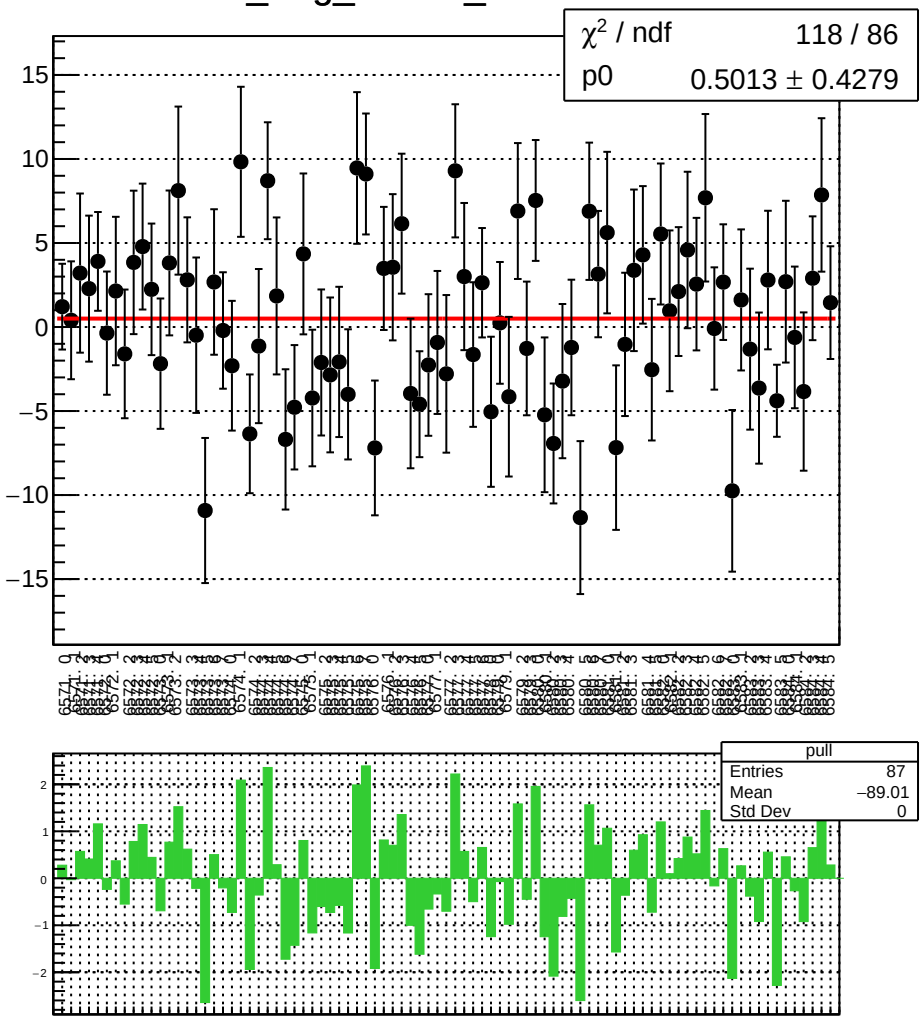

pull1D
Entries 87
Mean −0.01571
Std Dev 1.1

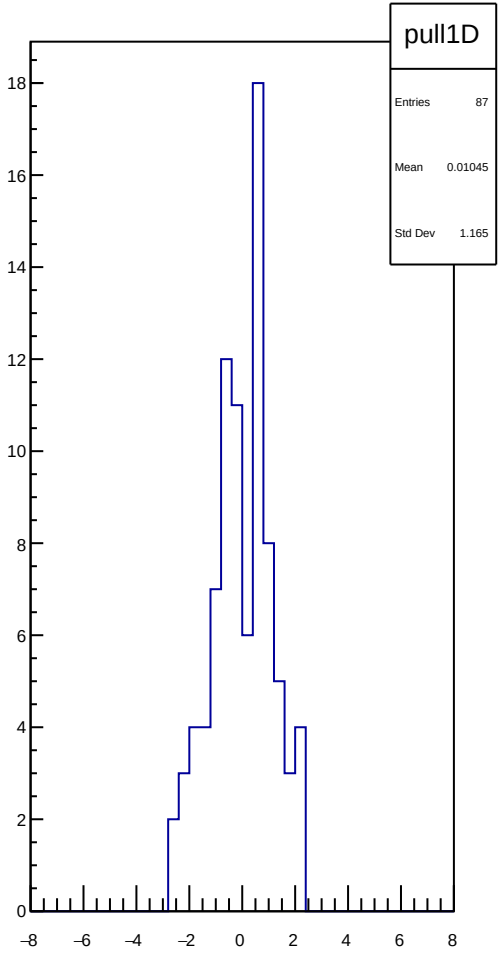

diff_targ_positionY_rms vs run
χ² / ndf 1.531e+04 / 86
p0 4833 ± 3.738
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

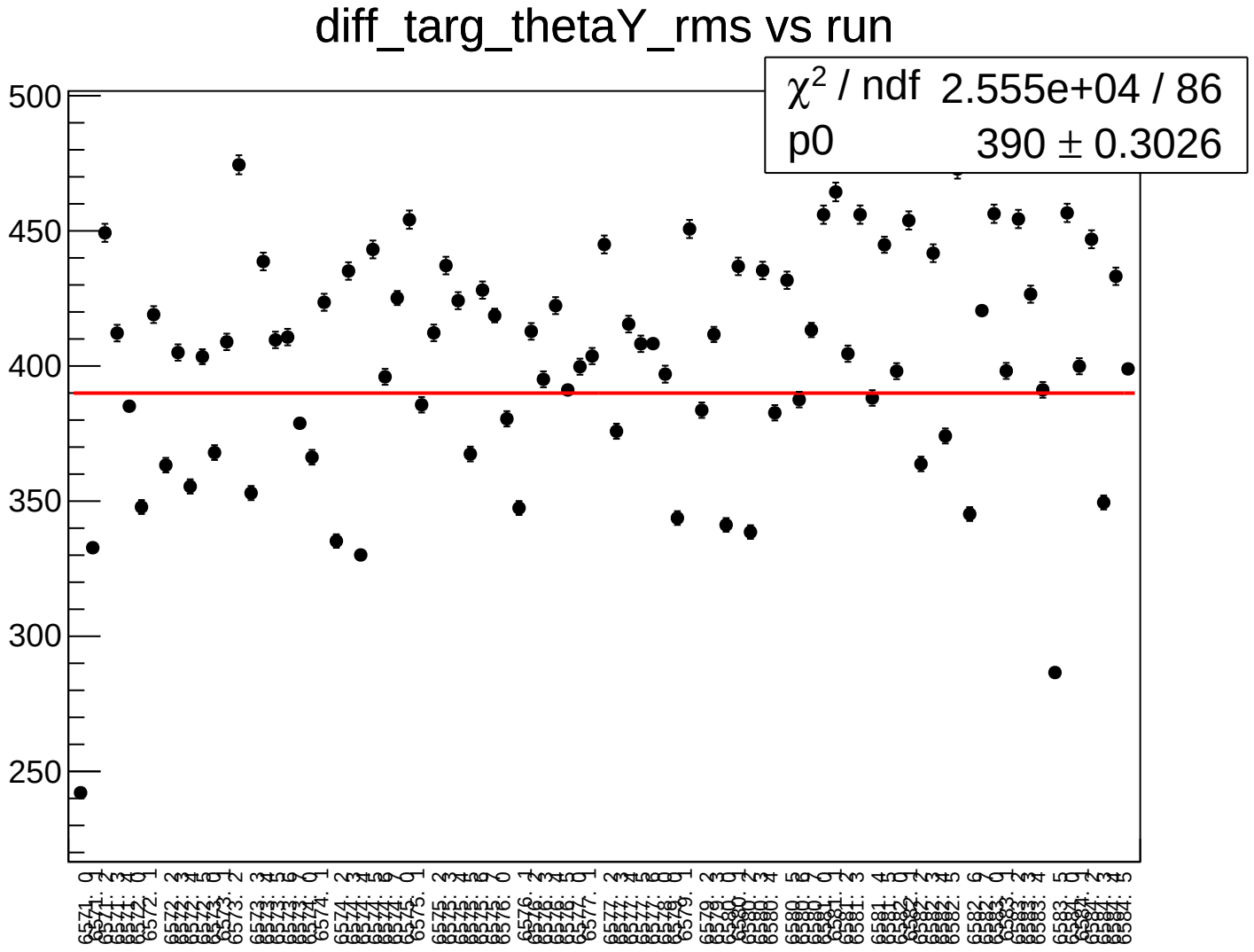

diff_targ_thetaX_mean vs run
χ² / ndf 92.49 / 86
p0 0.2707 ± 0.2755
pull
Entries 87
Mean 36.66
Std Dev 60.38

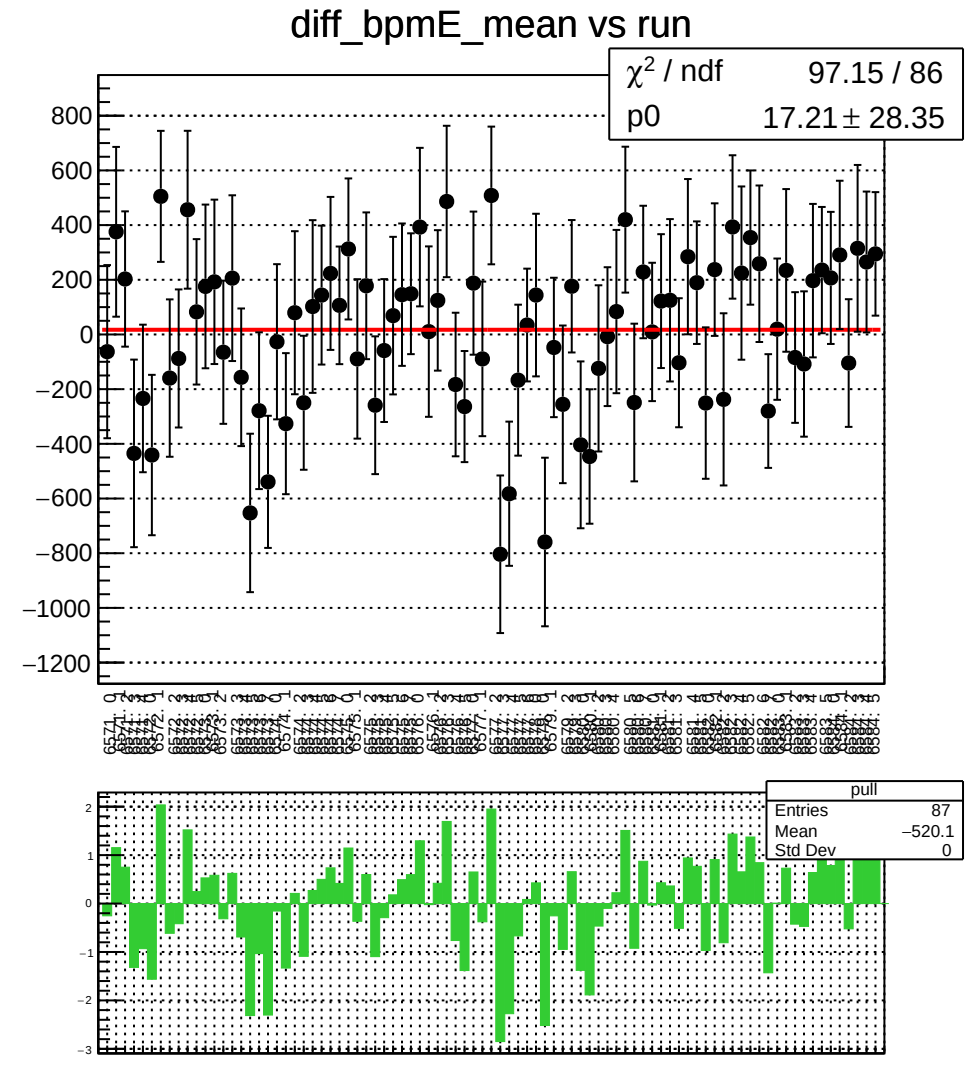

pull1D
Entries 87
Mean −0.01971
Std Dev 1.031

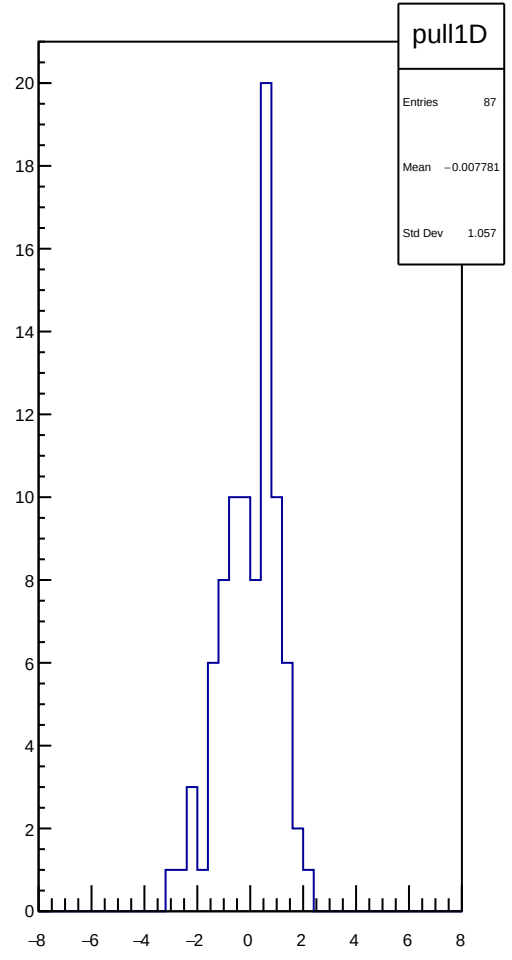

diff_targ_thetaX_rms vs run
χ² / ndf 2.526e+04 / 86
p0 251.1 ± 0.1948
380
360
340
320
300
280
260
240
220
200

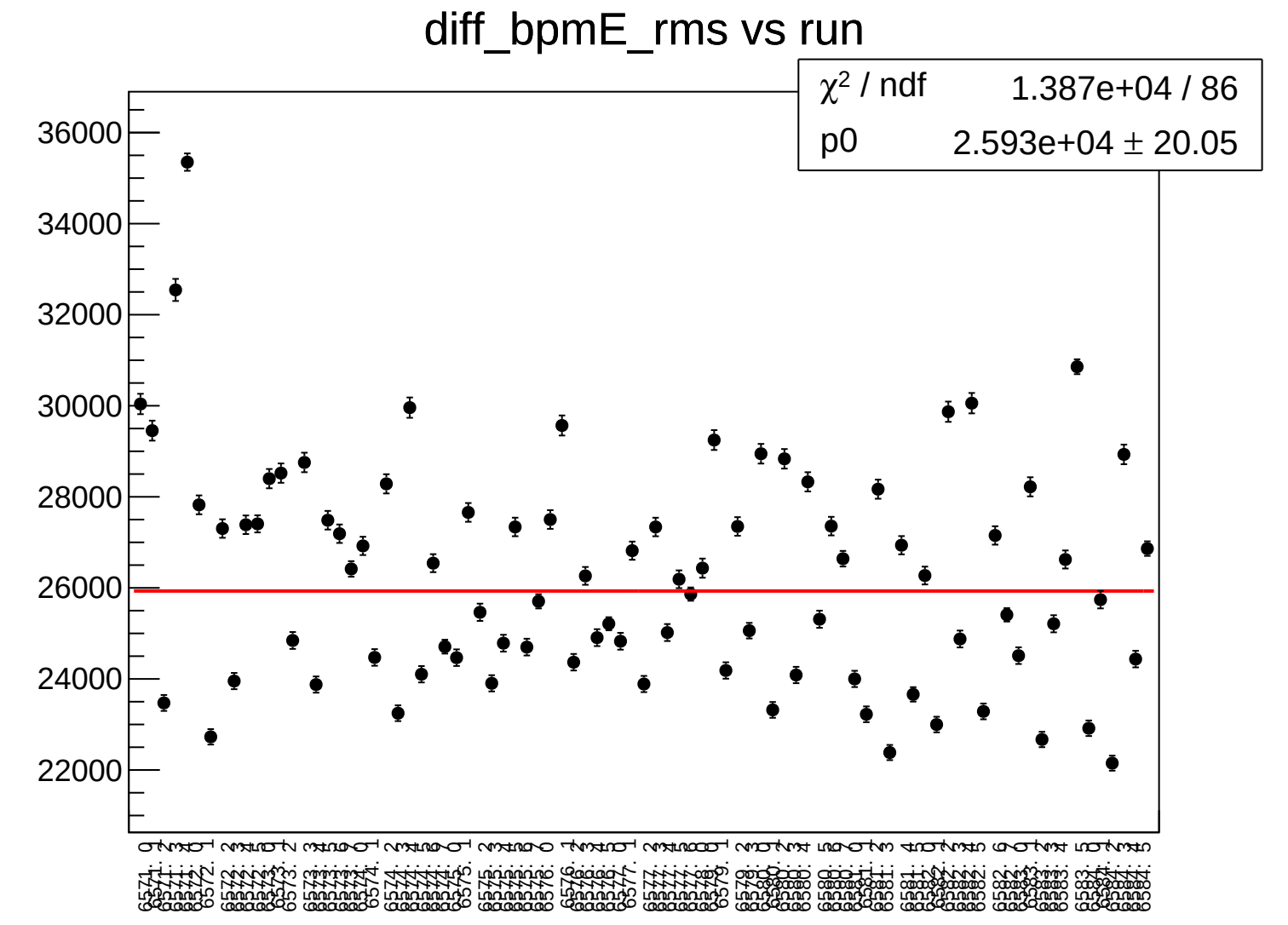

diff_targ_thetaY_mean vs run
χ² / ndf 118 / 86
p0 0.5013 ± 0.4279
pull
Entries 87
Mean −89.01
Std Dev 0

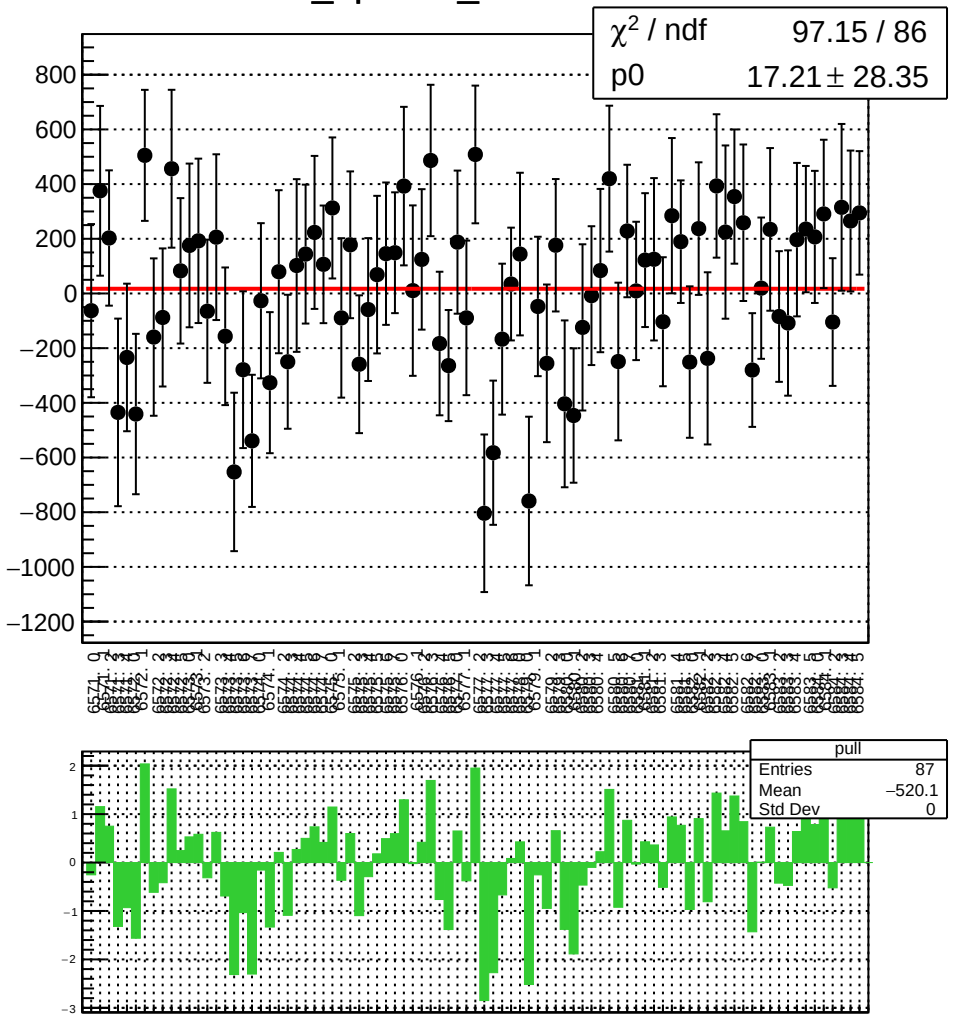

pull1D
Entries 87
Mean 0.01045
Std Dev 1.165

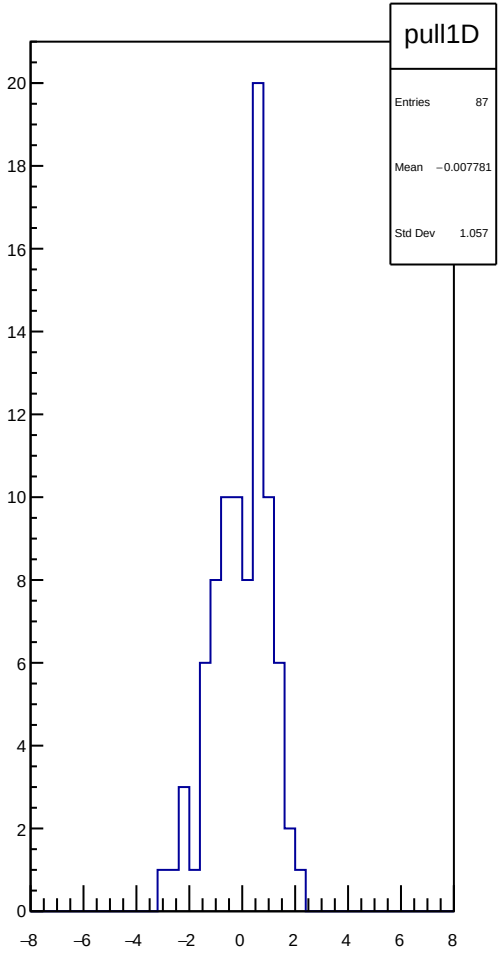

diff_targ_thetaY_rms vs run
χ² / ndf 2.555e+04 / 86
p0 390 ± 0.3026
500
450
400
350
300
250

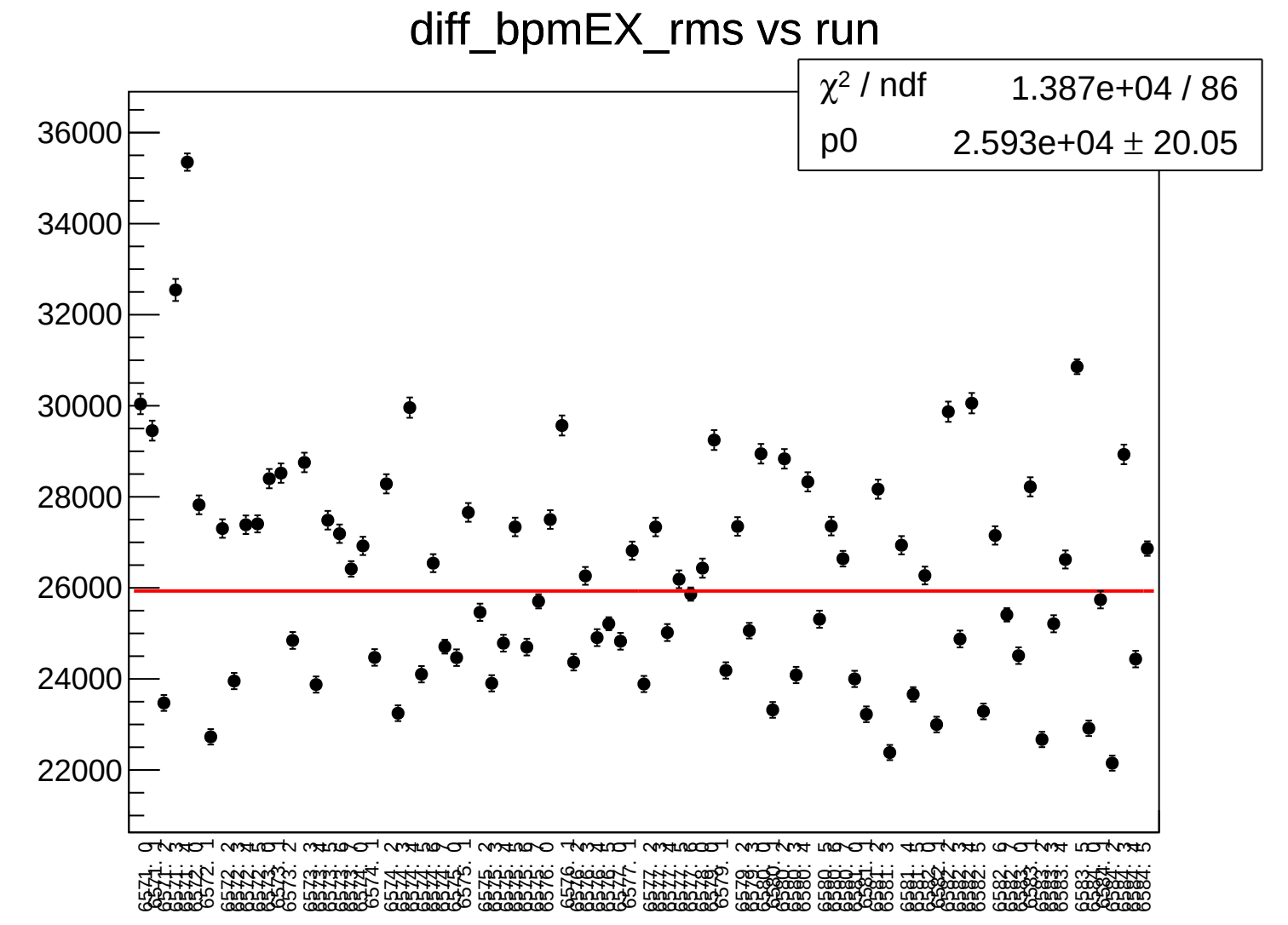

diff_bpmE_mean vs run
χ² / ndf 97.15 / 86
p0 17.21 ± 28.35
pull
Entries 87
Mean −520.1
Std Dev 0

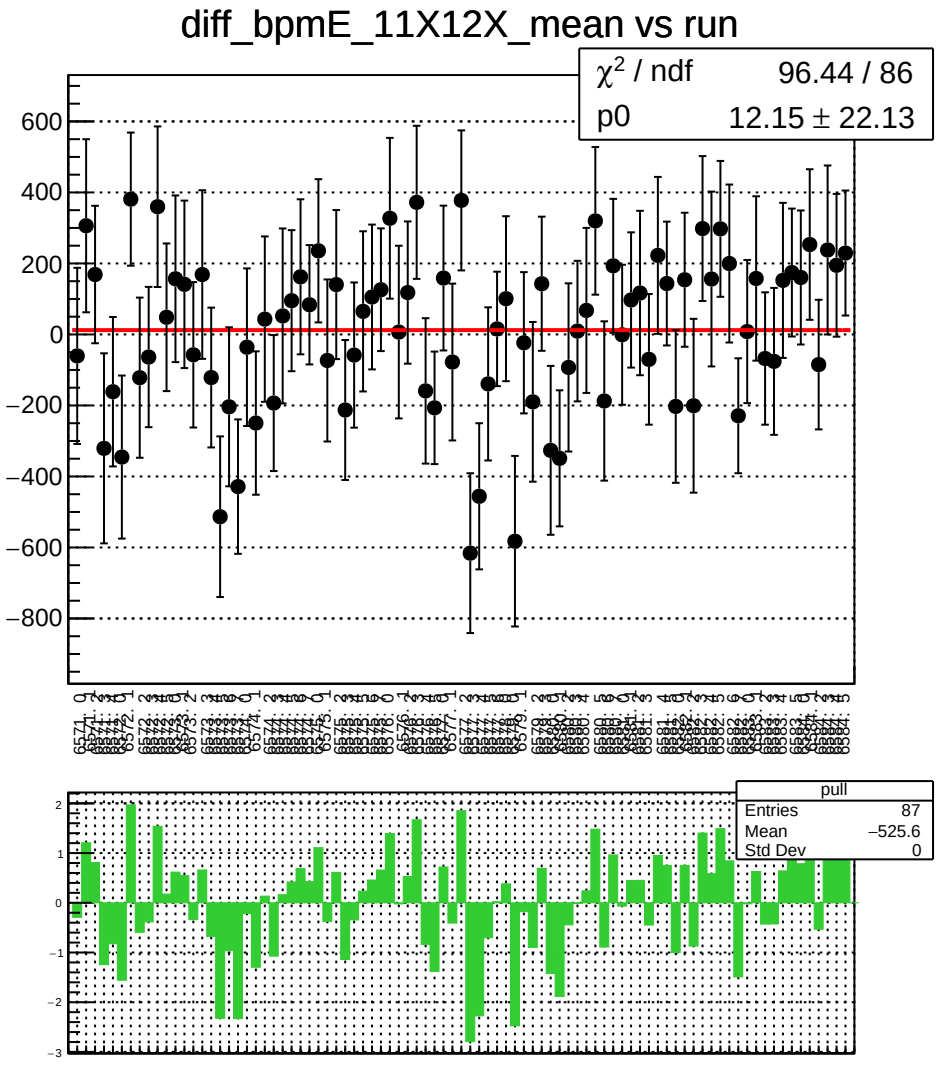

pull1D
Entries 87
Mean −0.007781
Std Dev 1.057

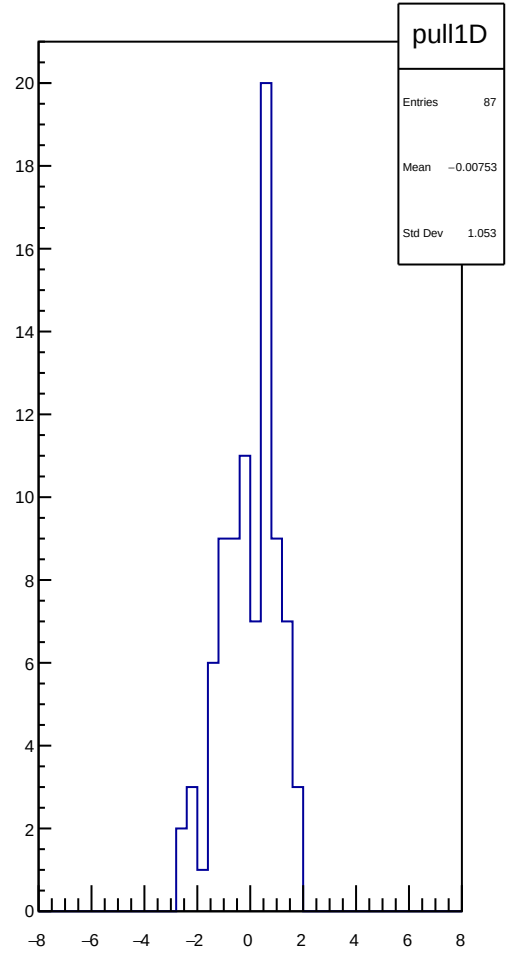

diff_bpmE_rms vs run
χ² / ndf 1.387e+04 / 86
p0 2.593e+04 ± 20.05
36000
34000
32000
30000
28000
26000
24000
22000


diff_bpmEX_mean vs run
χ² / ndf 97.15 / 86
p0 17.21 ± 28.35
pull
Entries 87
Mean −520.1
Std Dev 0

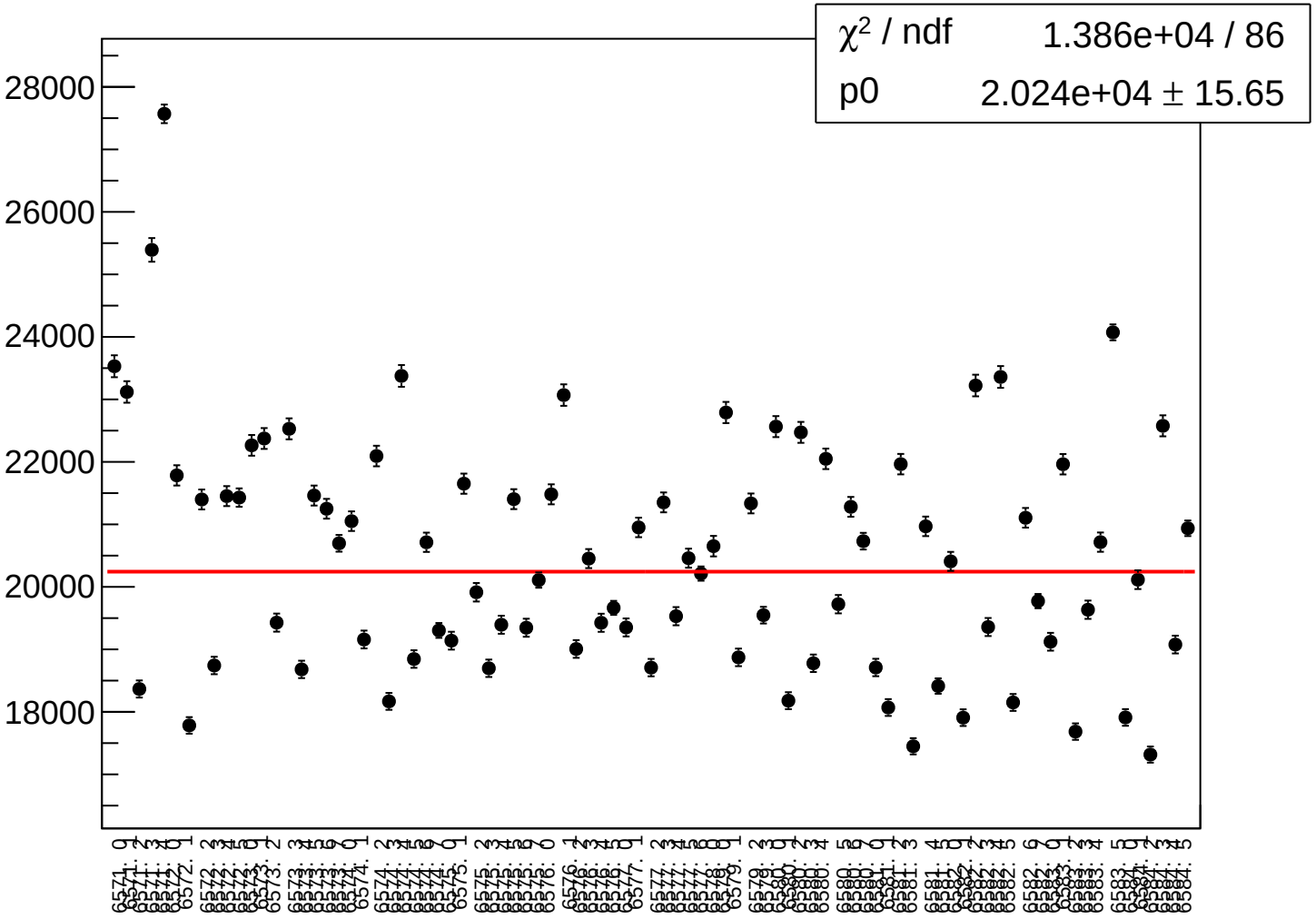

pull1D
Entries 87
Mean −0.007781
Std Dev 1.057

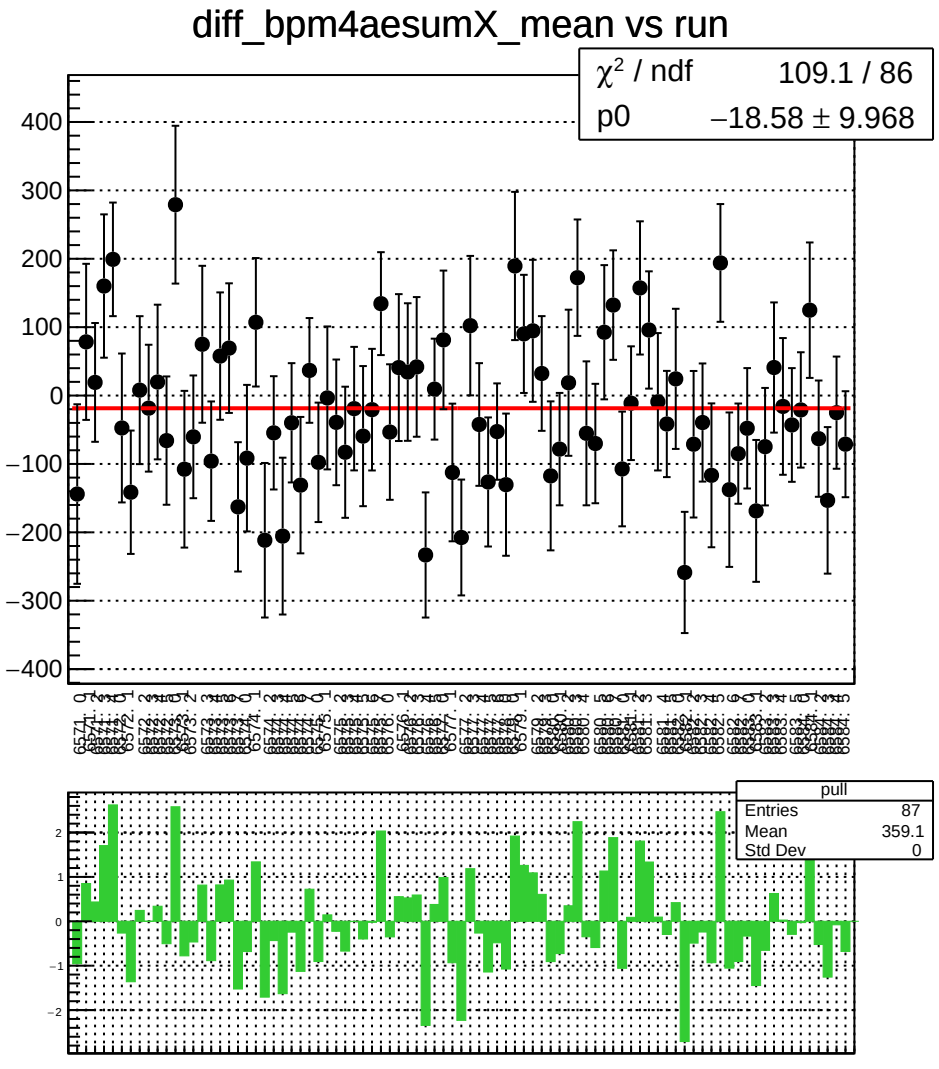

diff_bpmEX_rms vs run
χ² / ndf 1.387e+04 / 86
p0 2.593e+04 ± 20.05
36000
34000
32000
30000
28000
26000
24000
22000

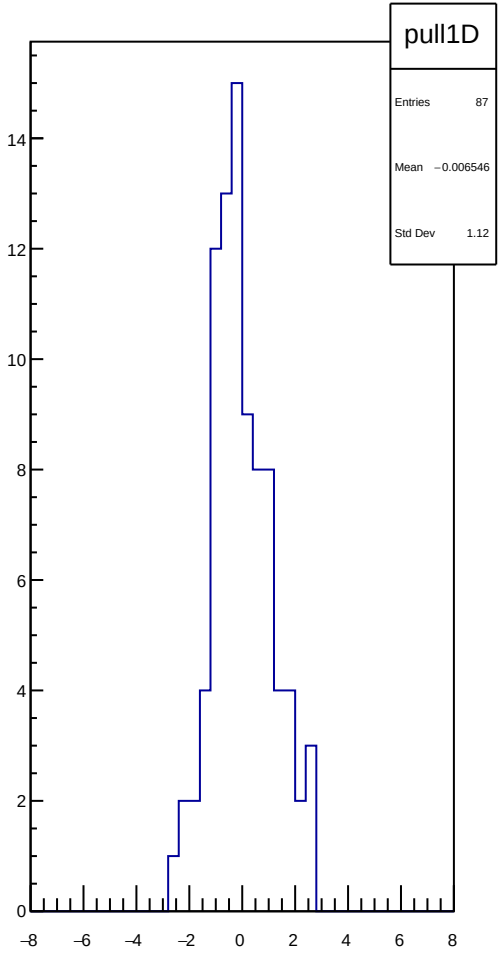

diff_bpmE_11X12X_mean vs run
χ^2 / ndf 96.44 / 86
p0 12.15 ± 22.13
pull
Entries 87
Mean −525.6
Std Dev 0

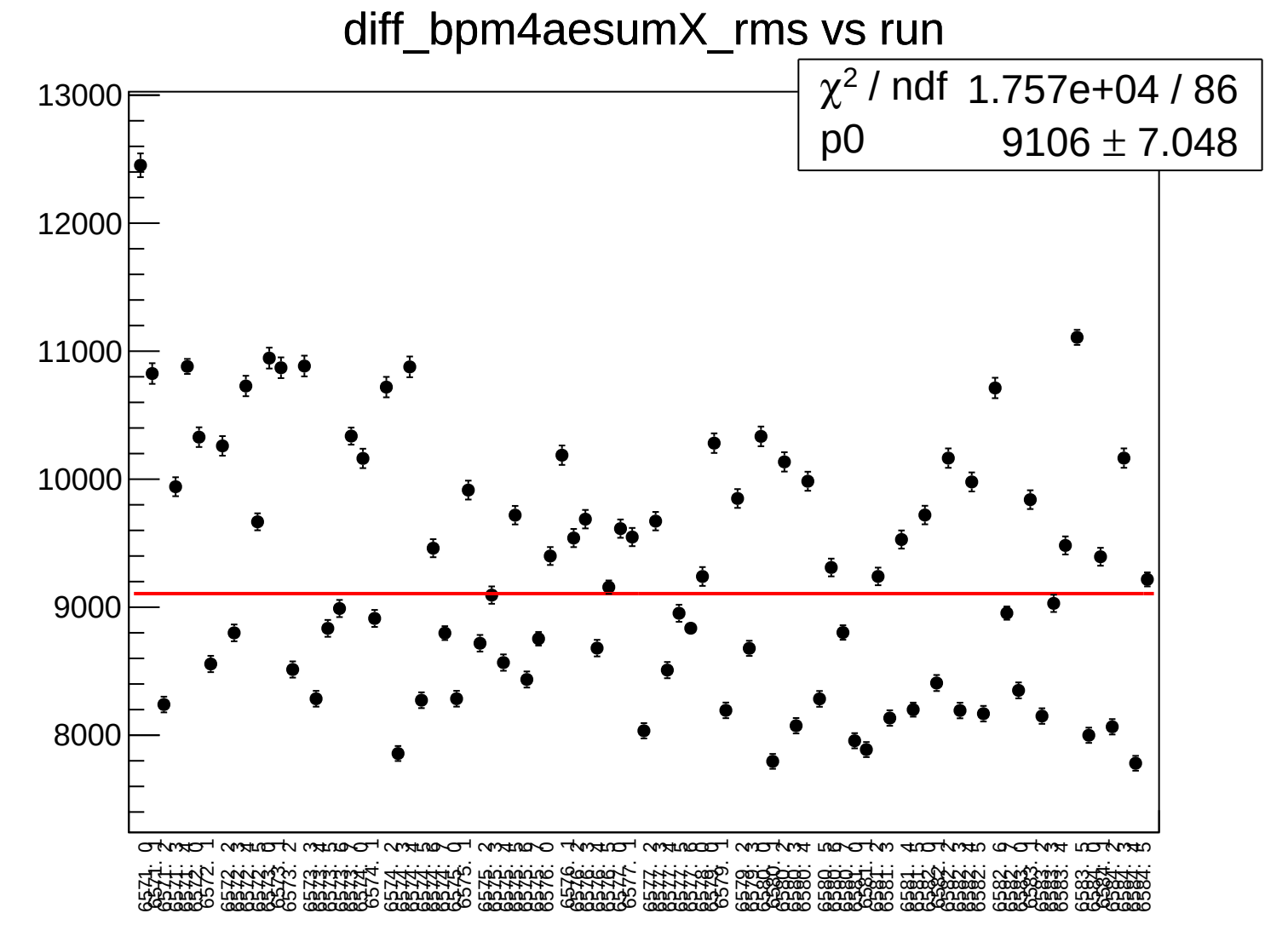

pull1D
Entries 87
Mean −0.00753
Std Dev 1.053

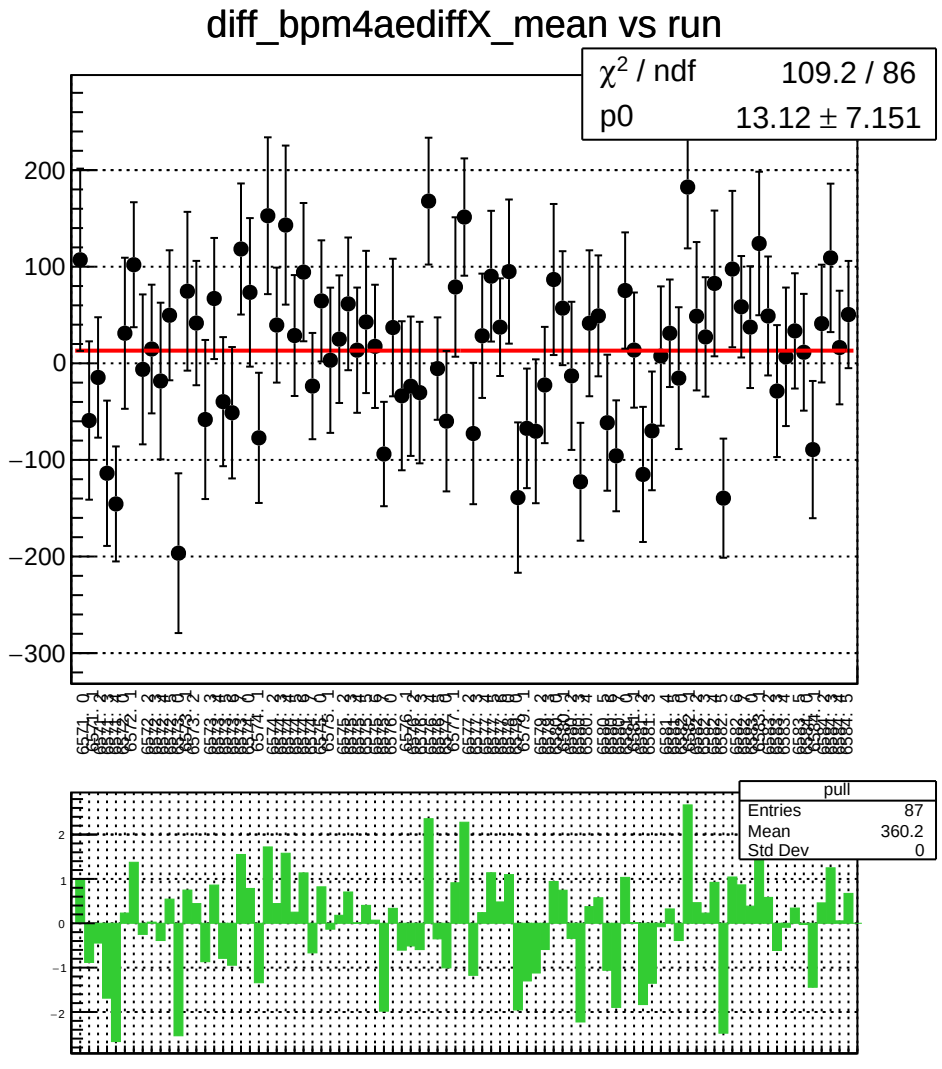
diff_bpmE_11X12X_rms vs run

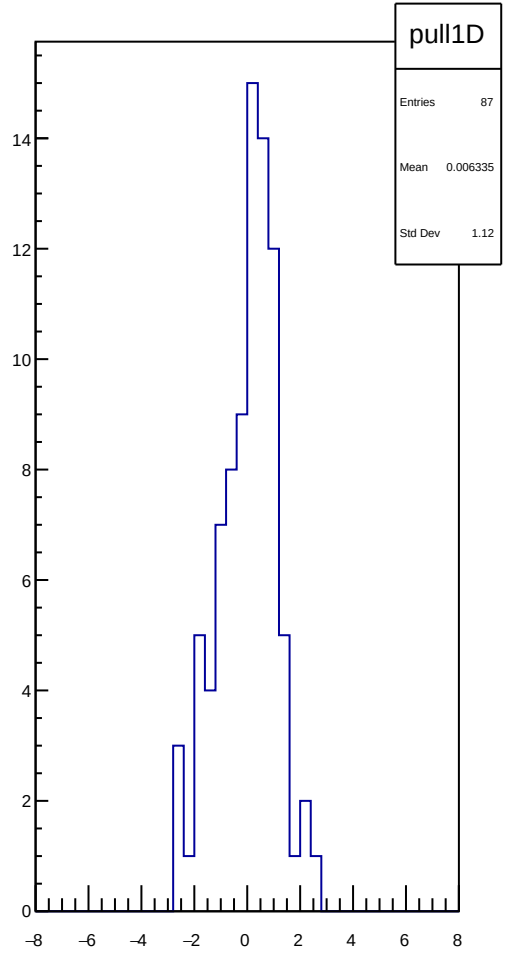


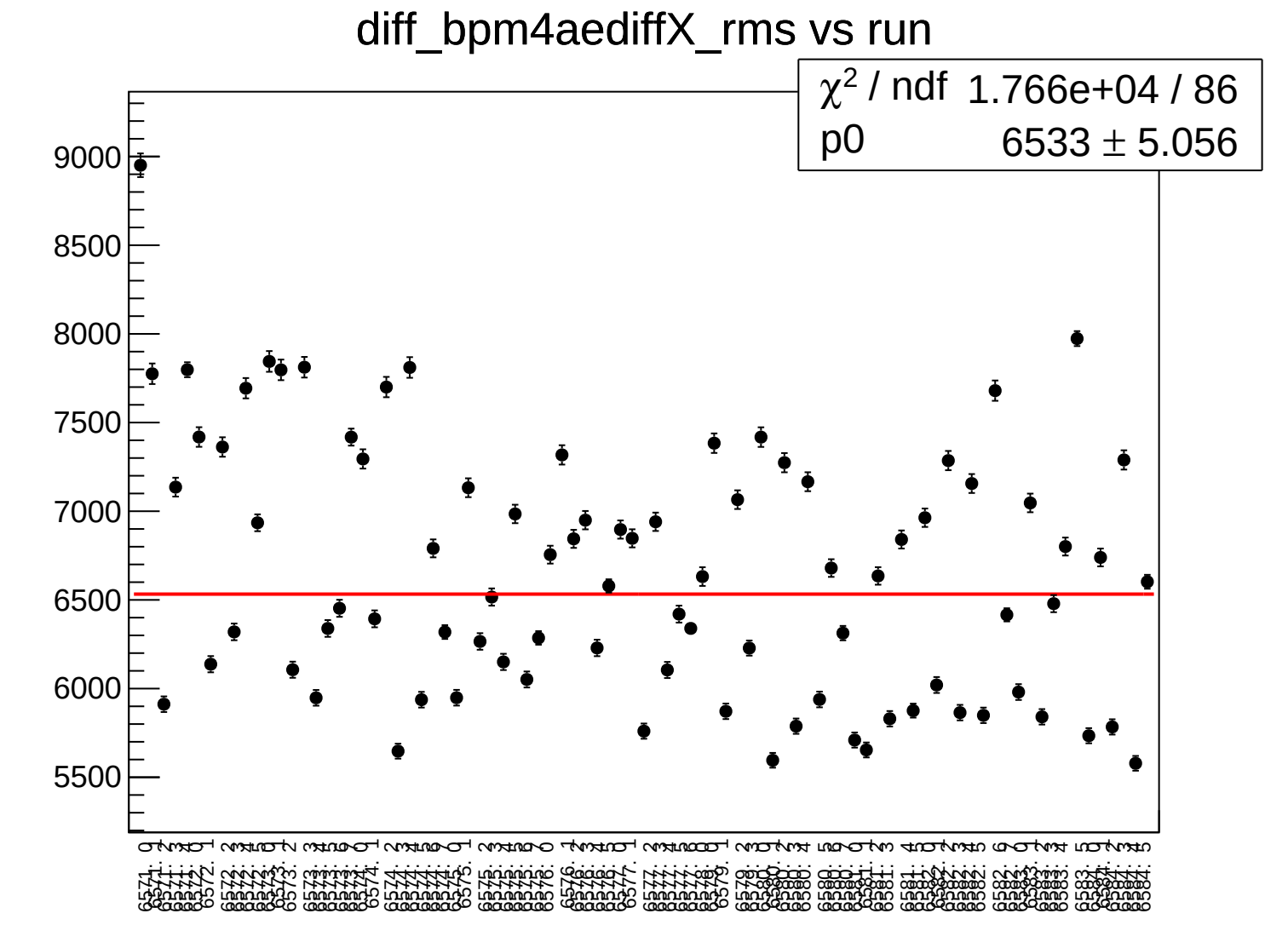

diff_bpm4aesumX_mean vs run
χ² / ndf 109.1 / 86
p0 −18.58 ± 9.968
pull
Entries 87
Mean 359.1
Std Dev 0

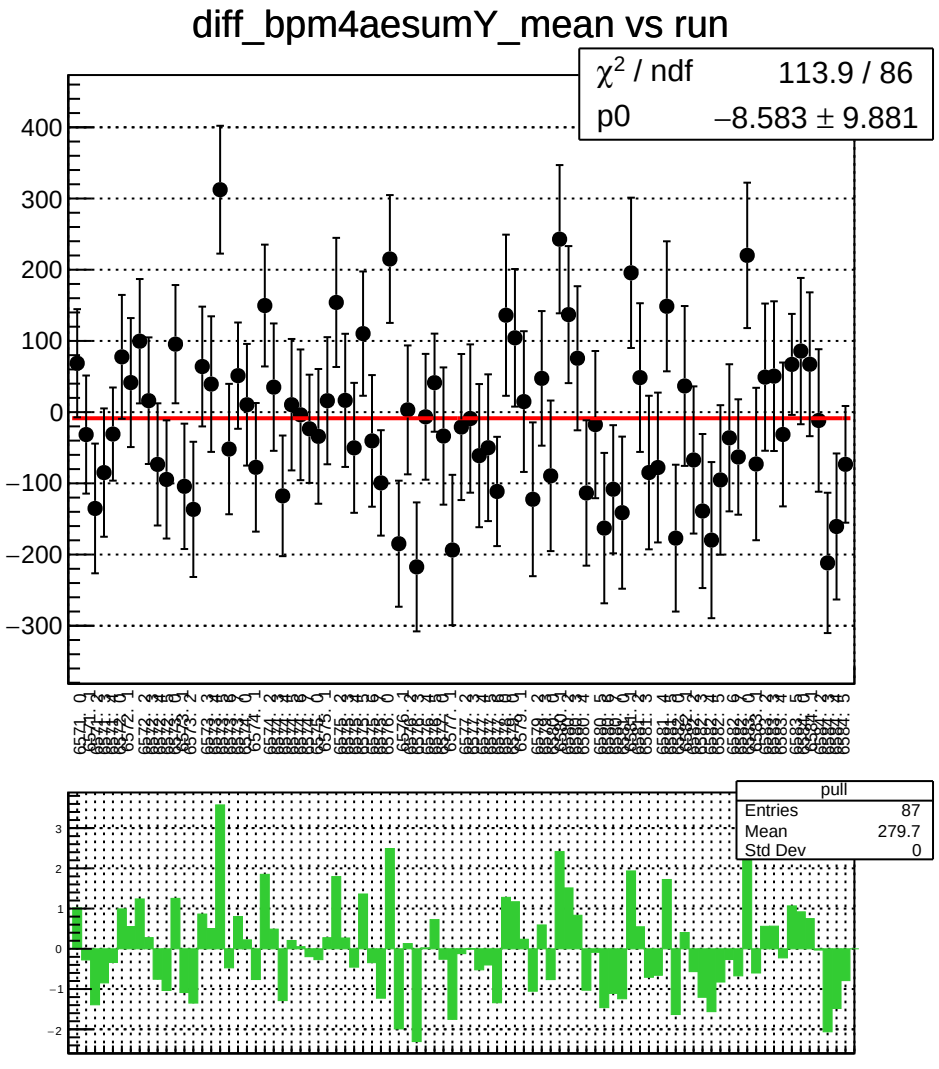

pull1D
Entries 87
Mean −0.006546
Std Dev 1.12

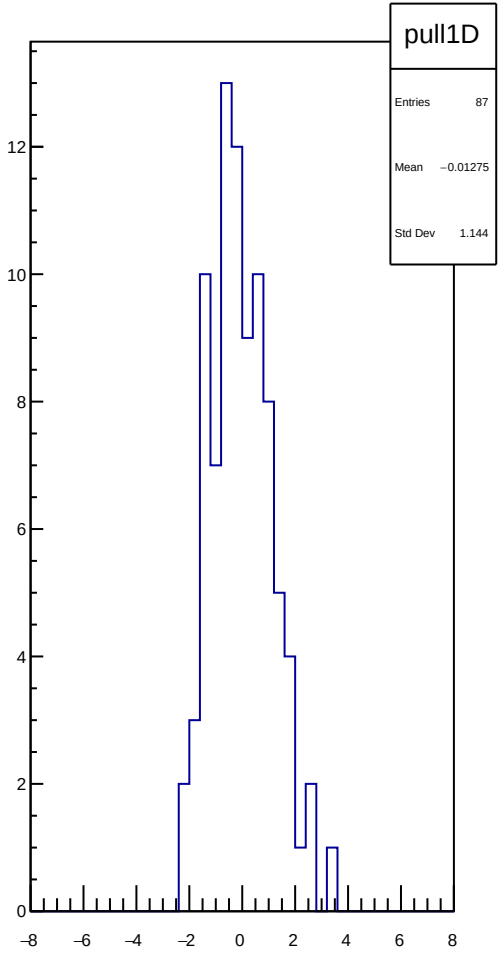

diff_bpm4aesumX_rms vs run
χ² / ndf 1.757e+04 / 86
p0 9106 ± 7.048
13000
12000
11000
10000
9000
8000

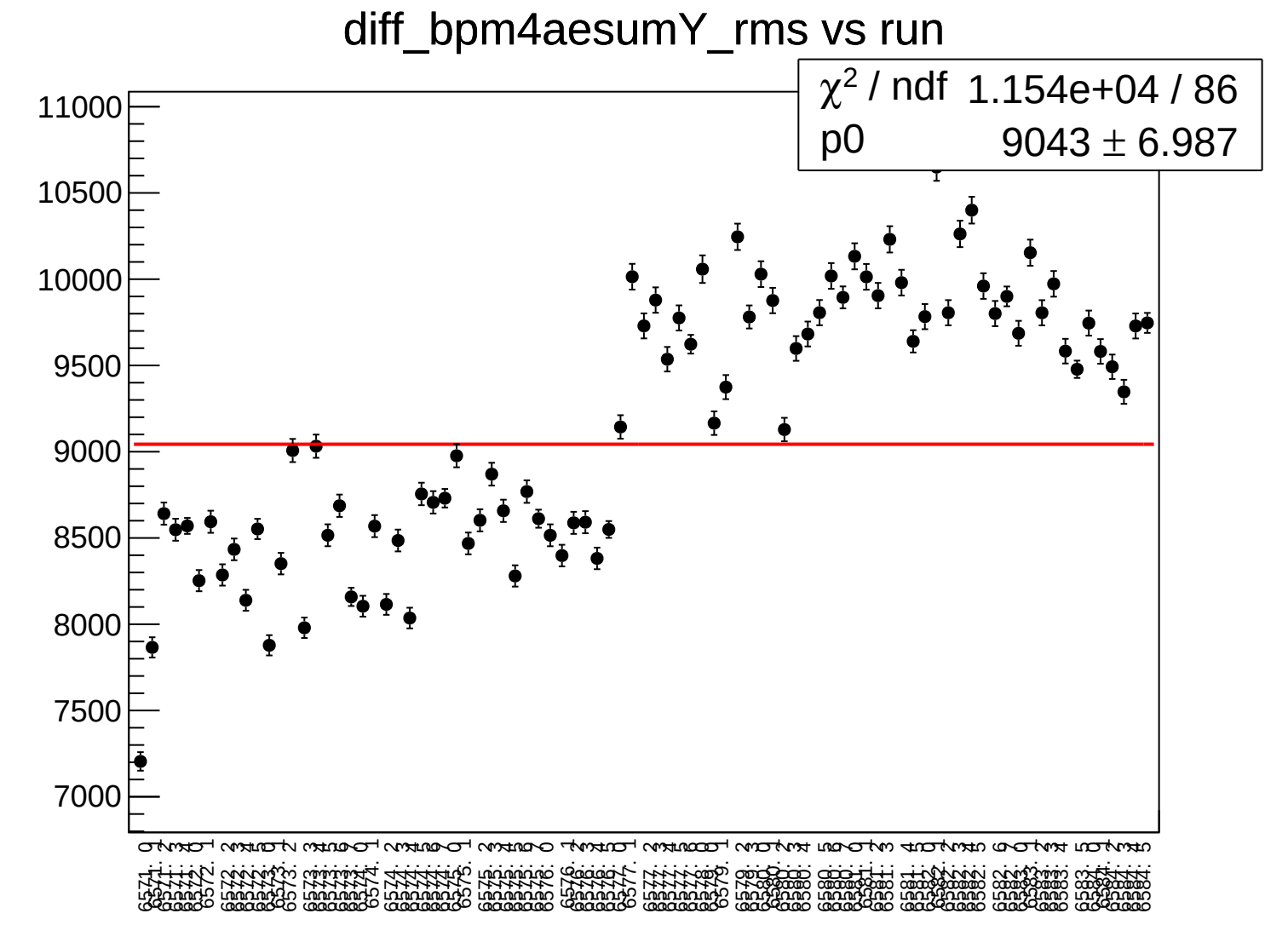

diff_bpm4aediffX_mean vs run
χ² / ndf 109.2 / 86
p0 13.12 ± 7.151
200
100
0
−100
−200
−300
pull
Entries 87
Mean 360.2
Std Dev 0
2
1
0
−1
−2

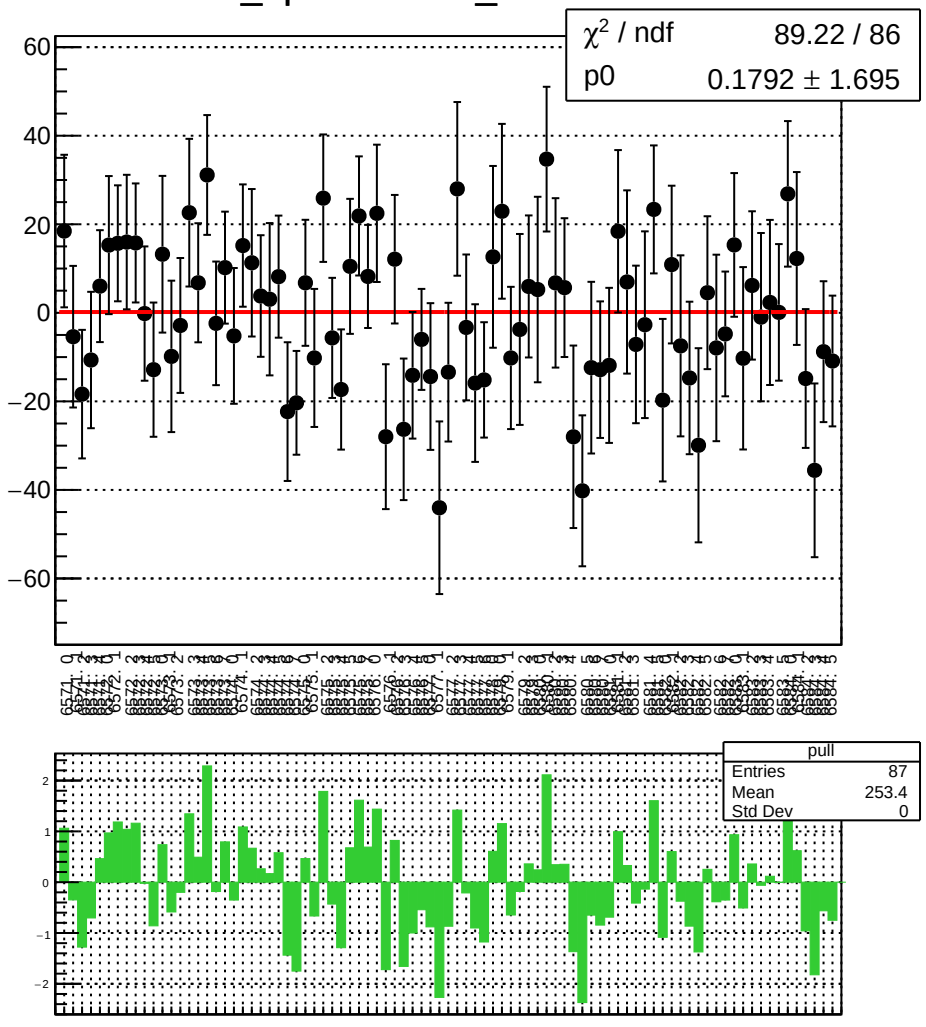

pull1D
Entries 87
Mean 0.006335
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

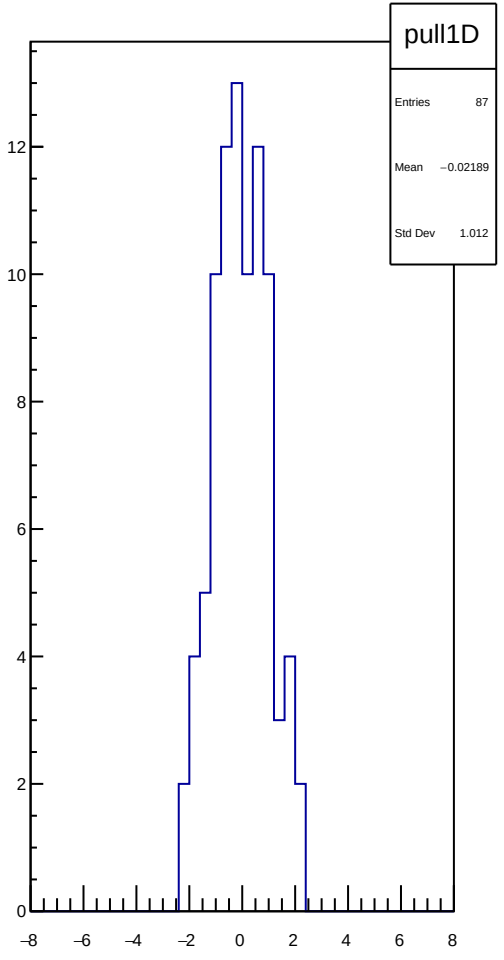

diff_bpm4aediffX_rms vs run
χ² / ndf 1.766e+04 / 86
p0 6533 ± 5.056
9000
8500
8000
7500
7000
6500
6000
5500

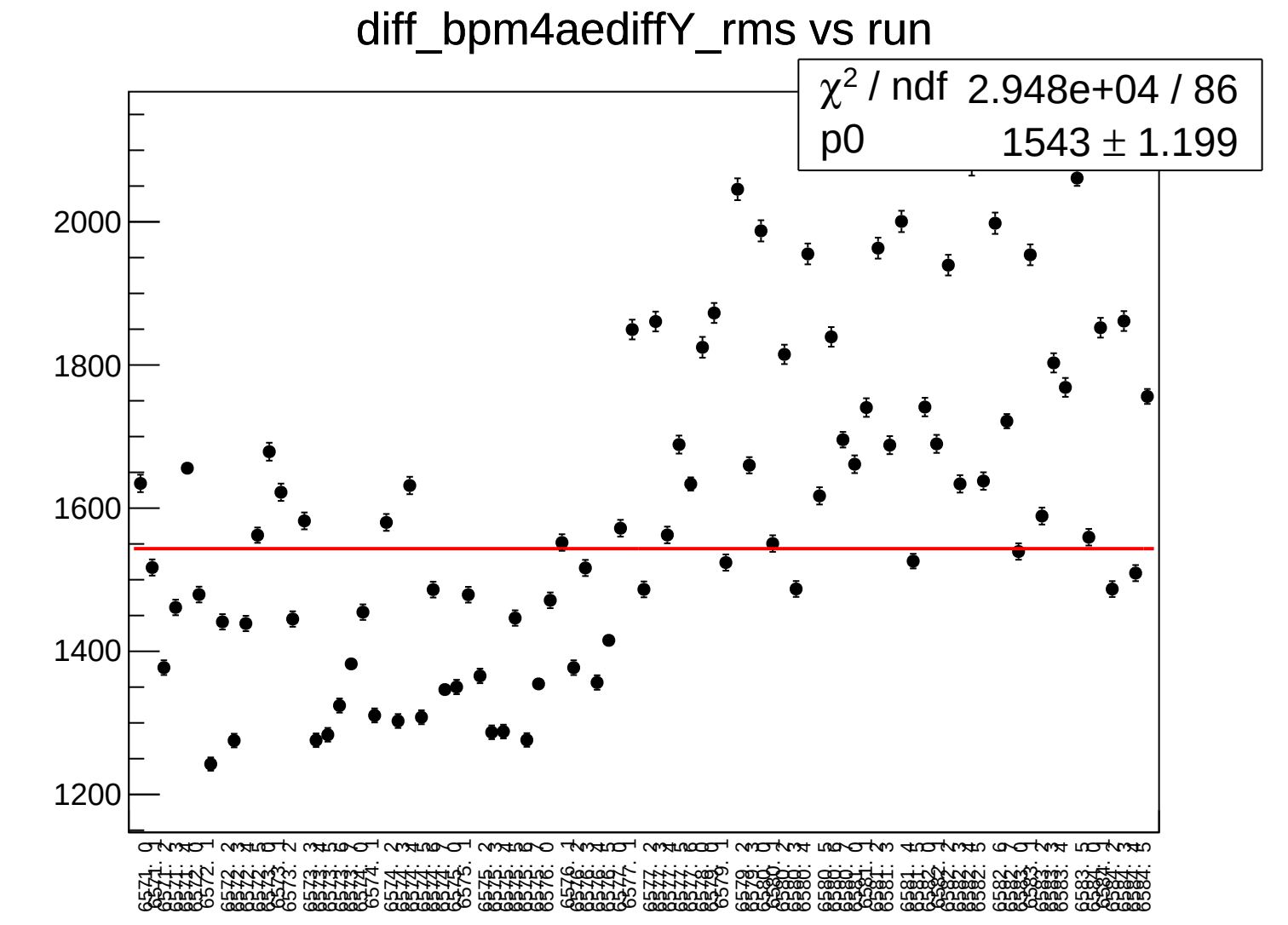

diff_bpm4aesumY_mean vs run
χ² / ndf 113.9 / 86
p0 −8.583 ± 9.881
pull
Entries 87
Mean 279.7
Std Dev 0

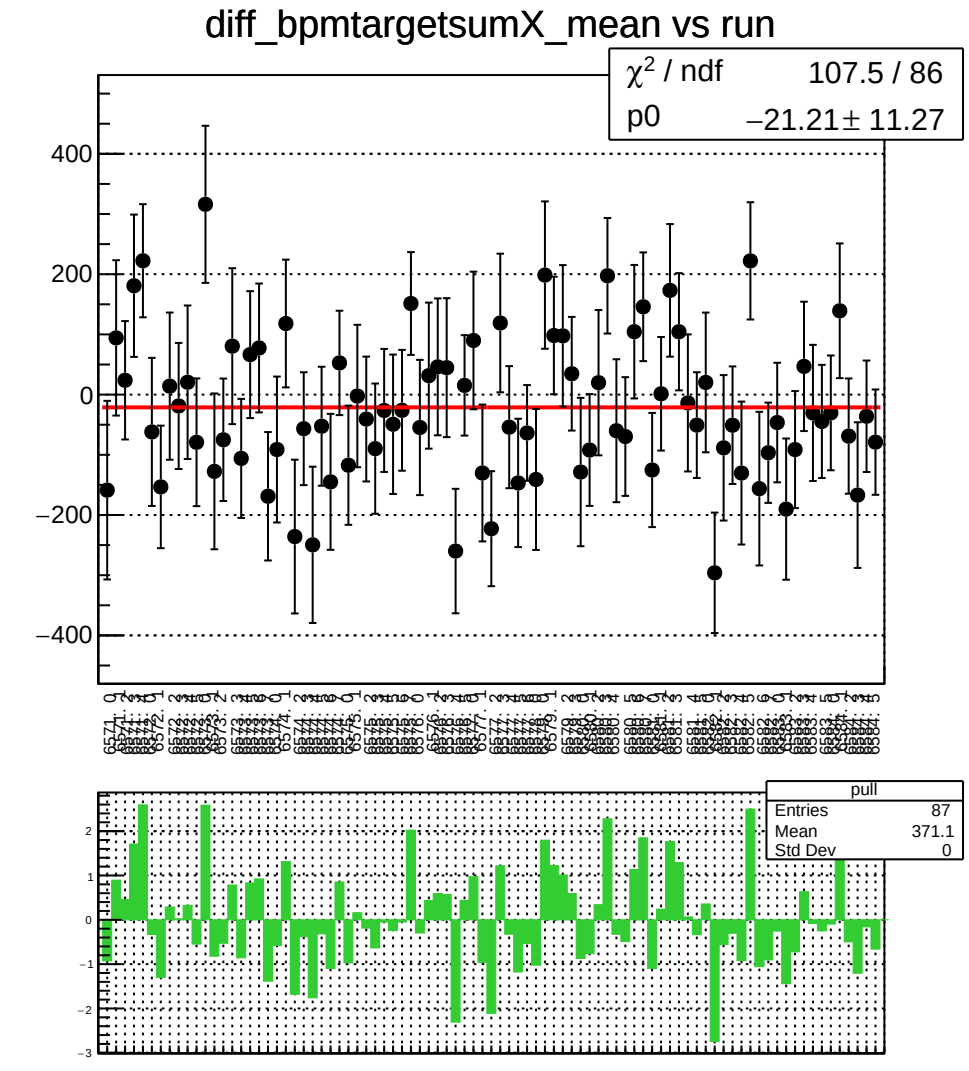

pull1D
Entries 87
Mean −0.01275
Std Dev 1.144

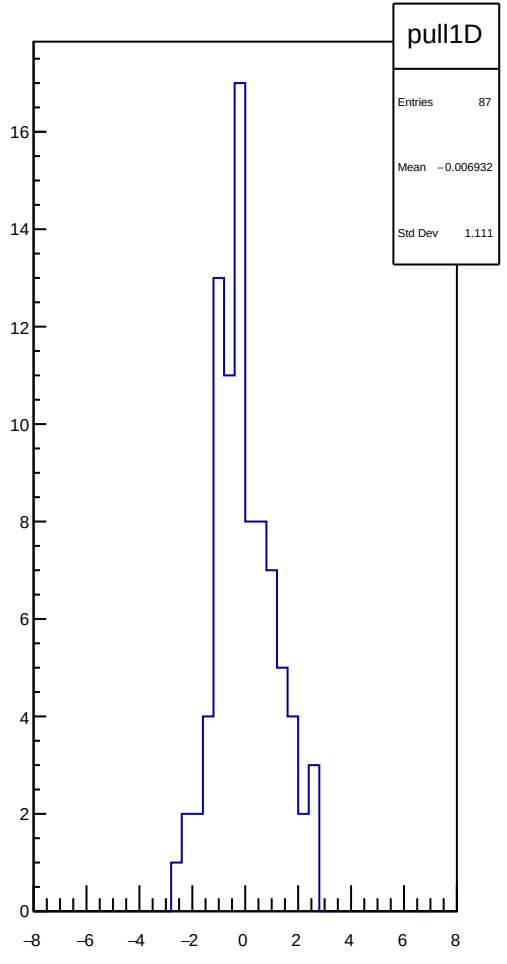

diff_bpm4aesumY_rms vs run
χ² / ndf 1.154e+04 / 86
p0 9043 ± 6.987
11000
10500
10000
9500
9000
8500
8000
7500
7000

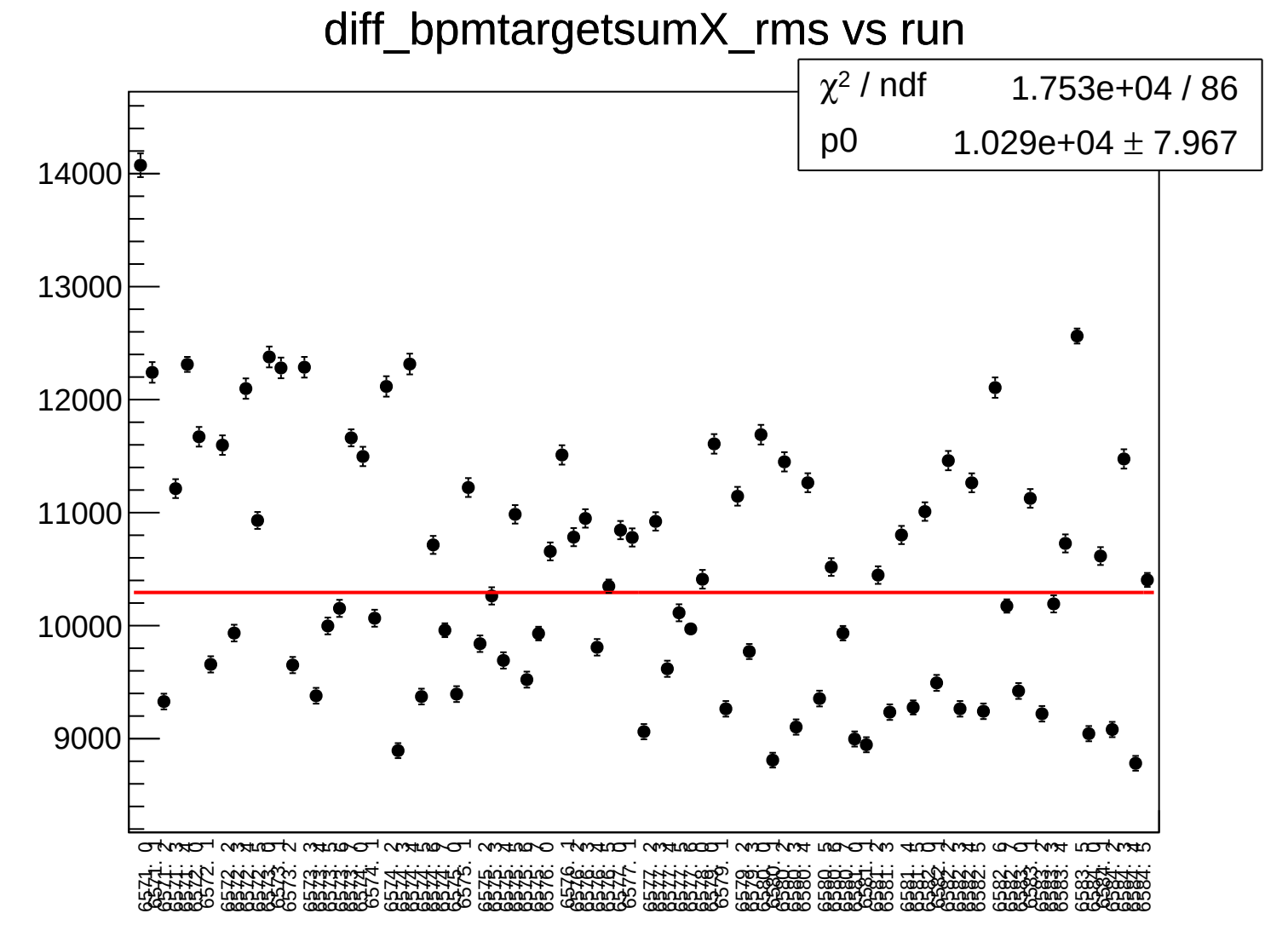

diff_bpm4aediffY_mean vs run
χ² / ndf 89.22 / 86
p0 0.1792 ± 1.695
pull
Entries 87
Mean 253.4
Std Dev 0

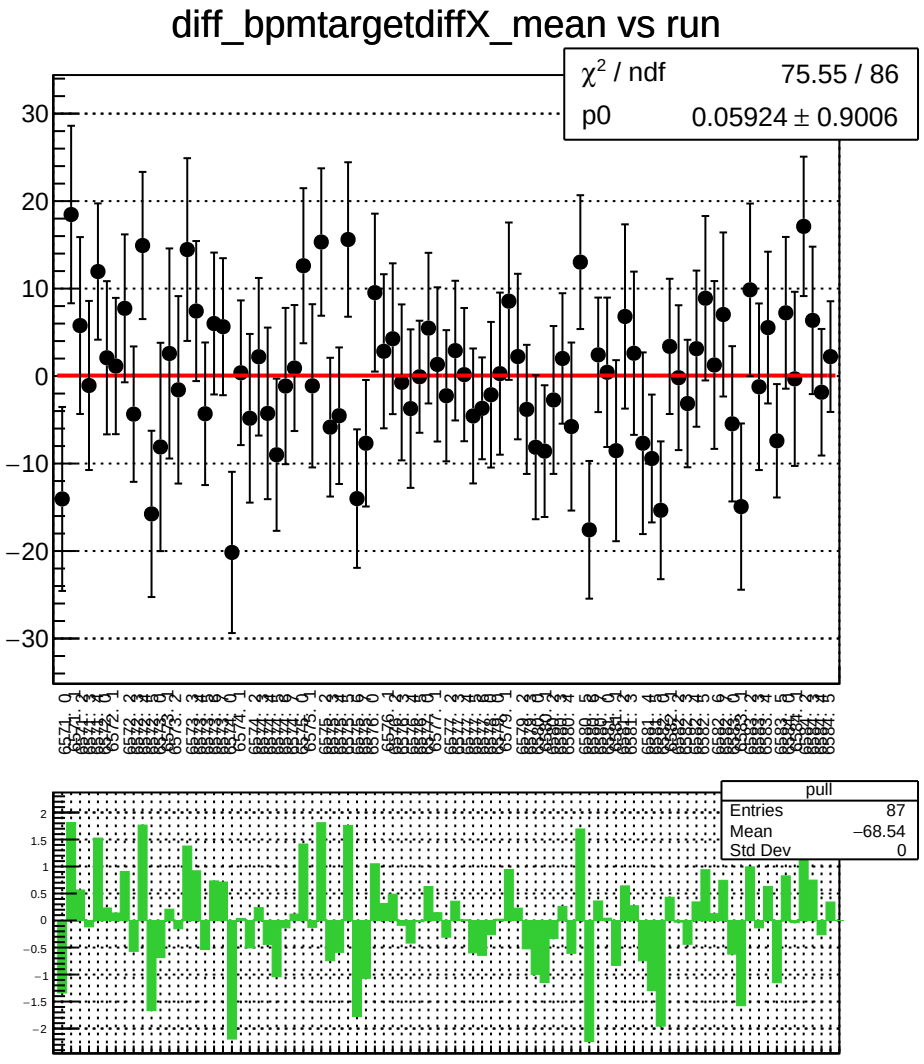

pull1D
Entries 87
Mean −0.02189
Std Dev 1.012

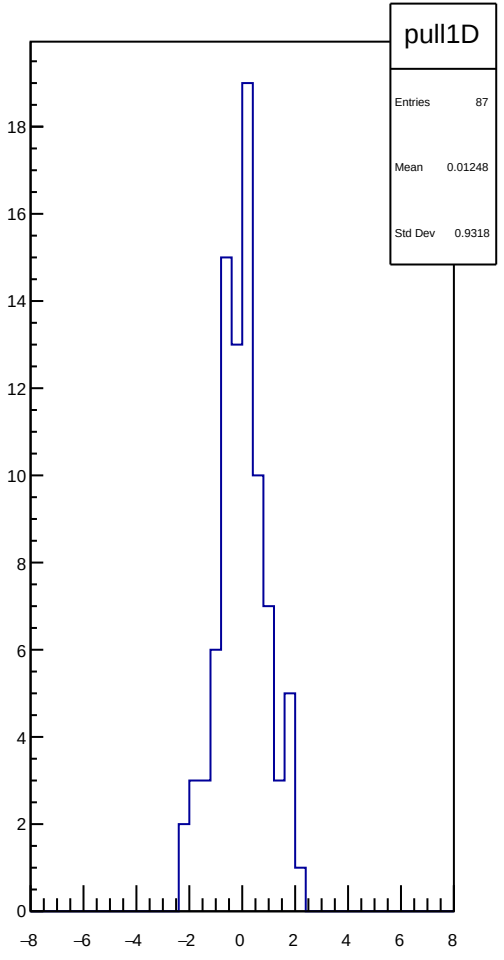

diff_bpm4aediffY_rms vs run
χ² / ndf 2.948e+04 / 86
p0 1543 ± 1.199
2000
1800
1600
1400
1200

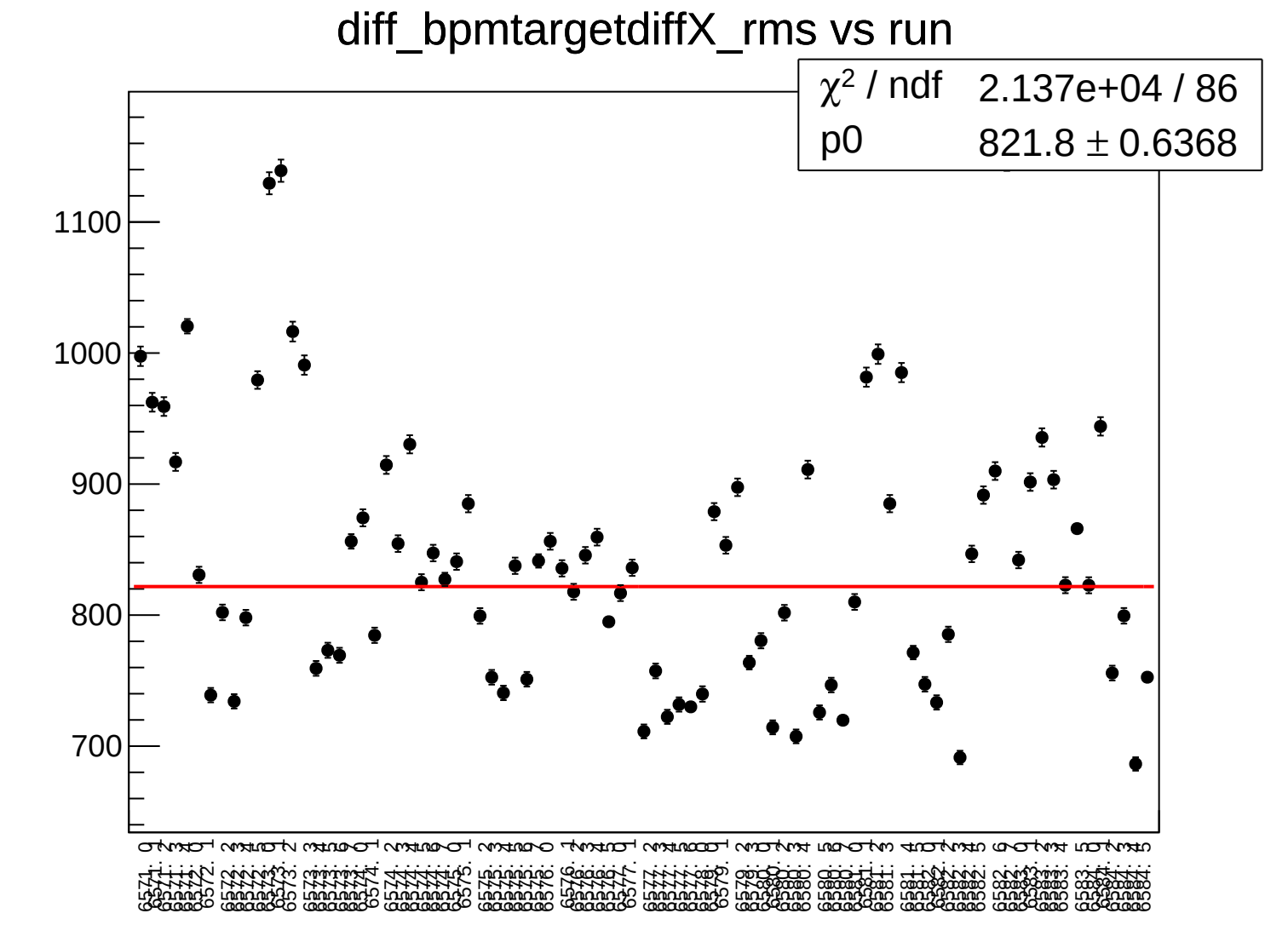

diff_bpmtargetsumX_mean vs run
χ² / ndf 107.5 / 86
p0 −21.21 ± 11.27
400
200
0
−200
−400
pull
Entries 87
Mean 371.1
Std Dev 0
2
1
0
−1
−2
−3

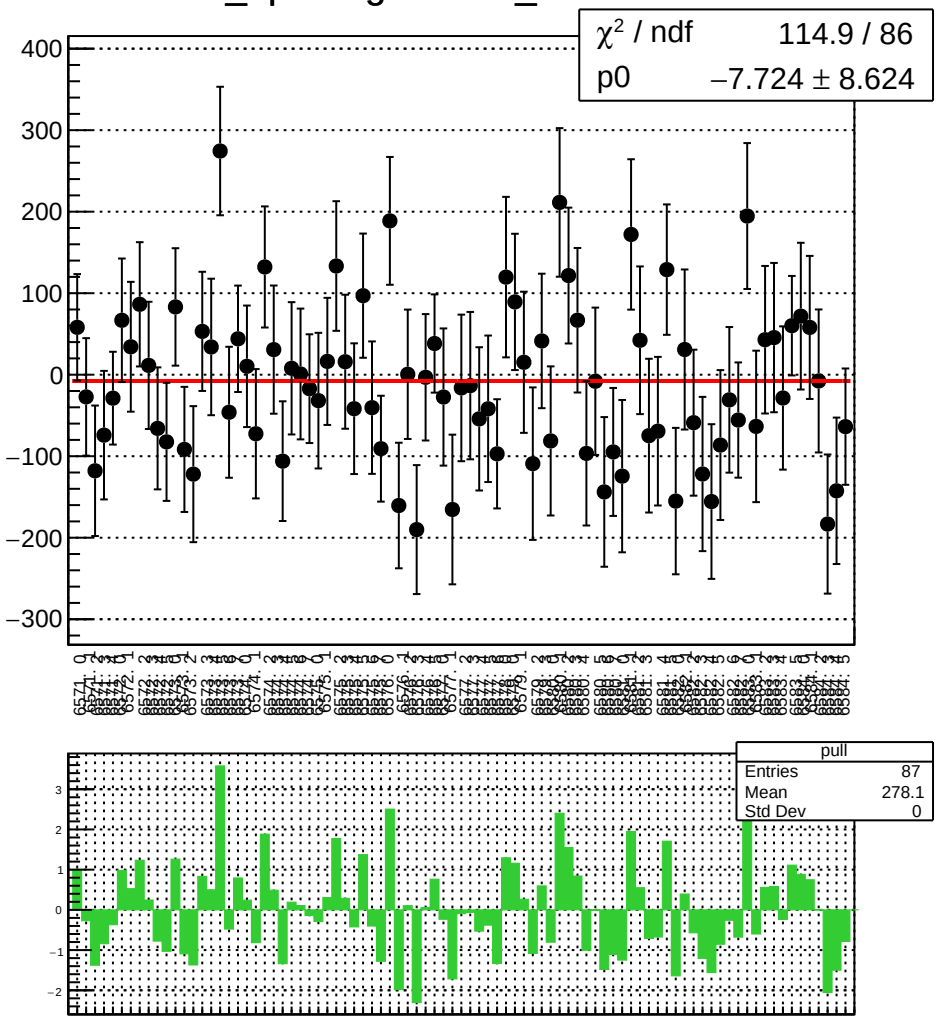

pull1D
Entries 87
Mean −0.006932
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

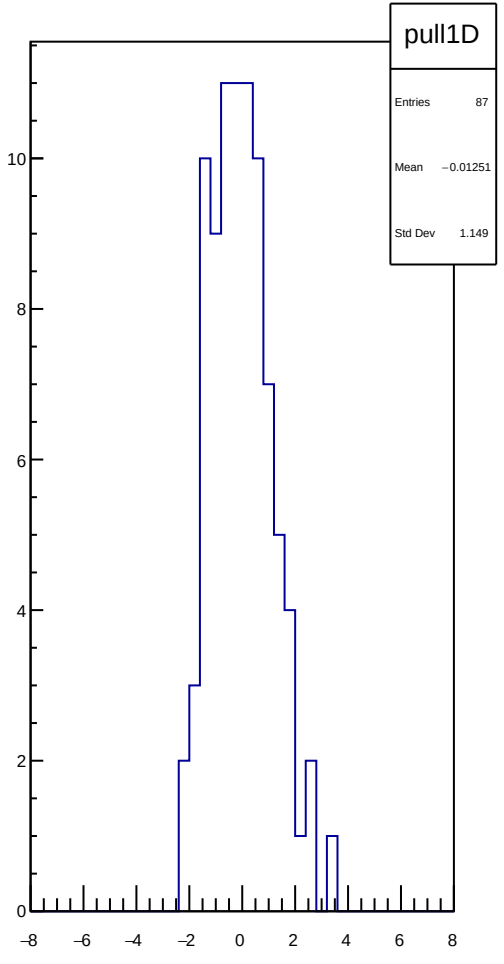

diff_bpmtargetsumX_rms vs run
χ² / ndf 1.753e+04 / 86
p0 1.029e+04 ± 7.967
14000
13000
12000
11000
10000
9000

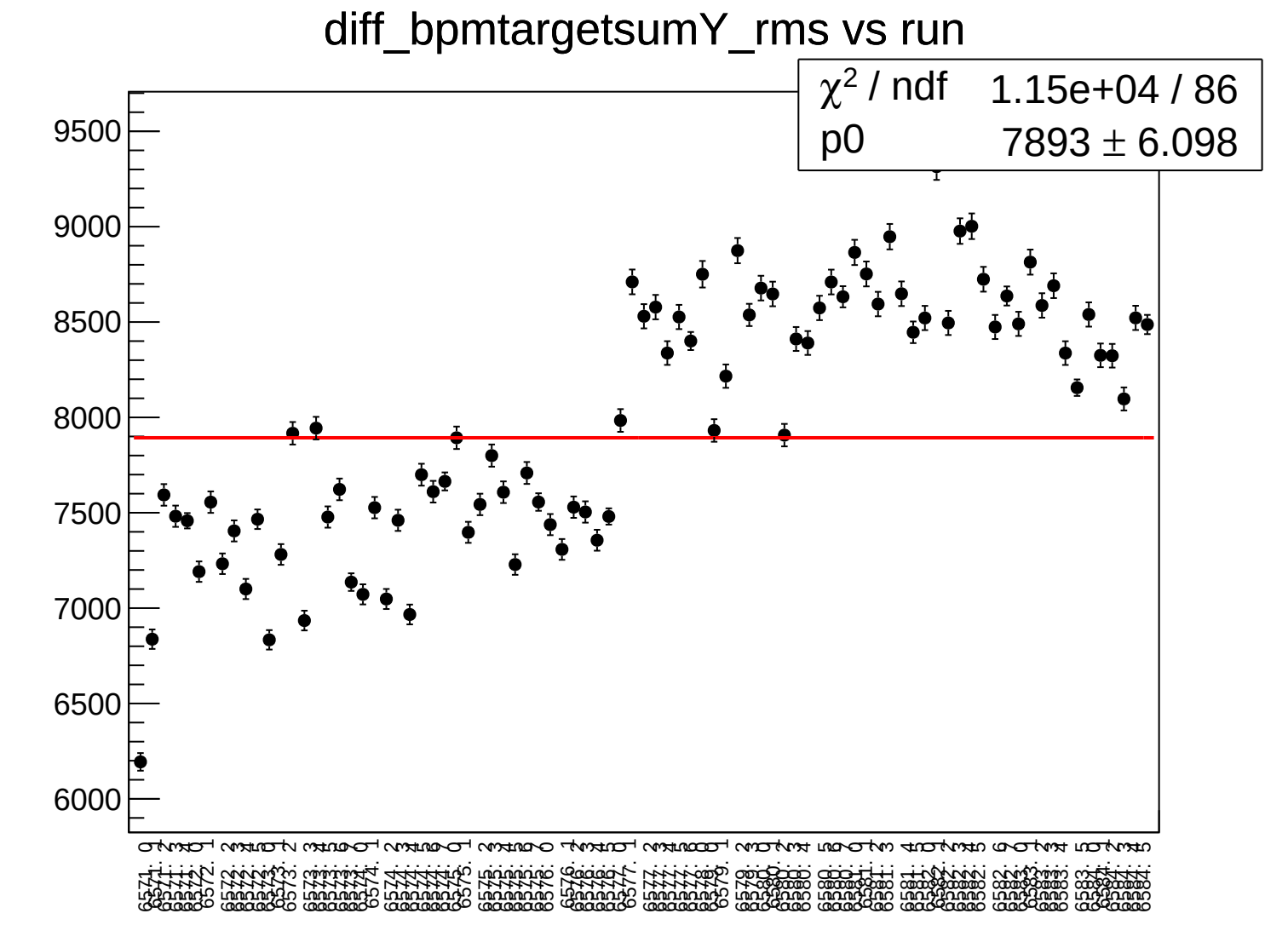

diff_bpmtargetdiffX_mean vs run
χ² / ndf 75.55 / 86
p0 0.05924 ± 0.9006
pull
Entries 87
Mean −68.54
Std Dev 0

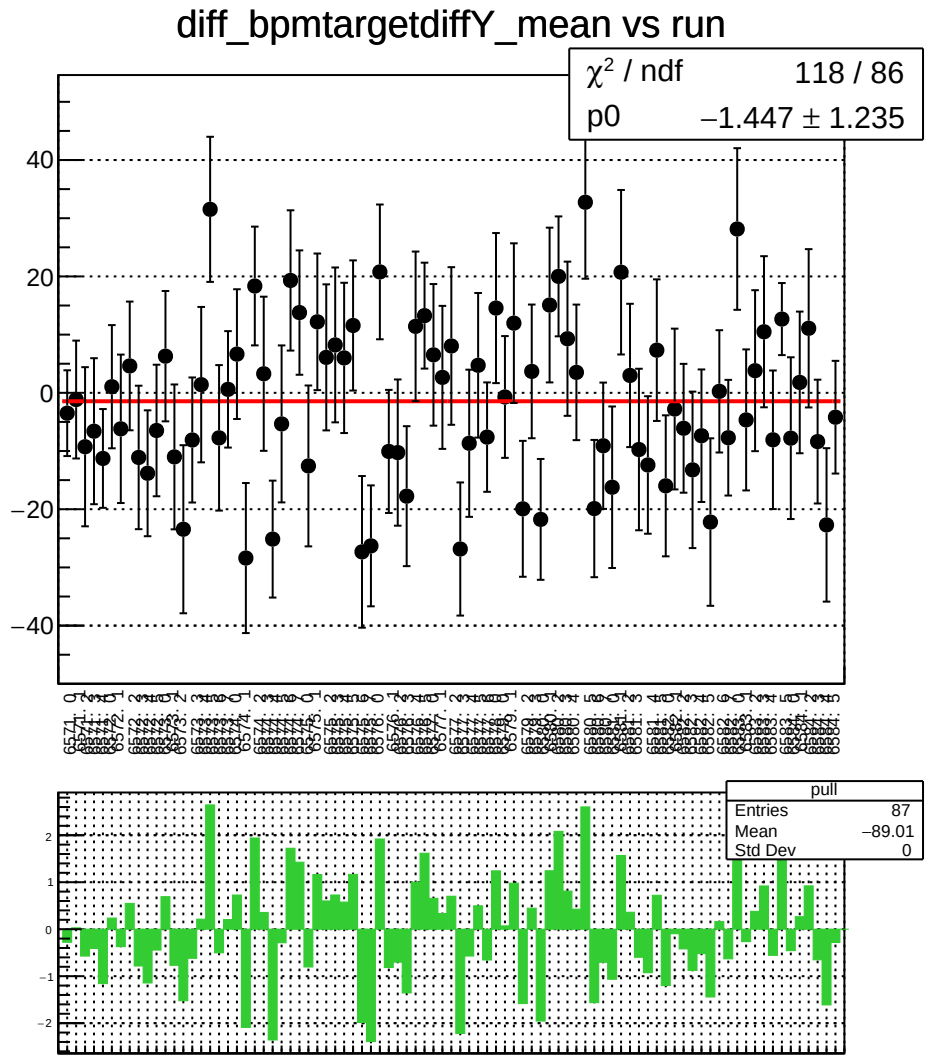

pull1D
Entries 87
Mean 0.01248
Std Dev 0.9318

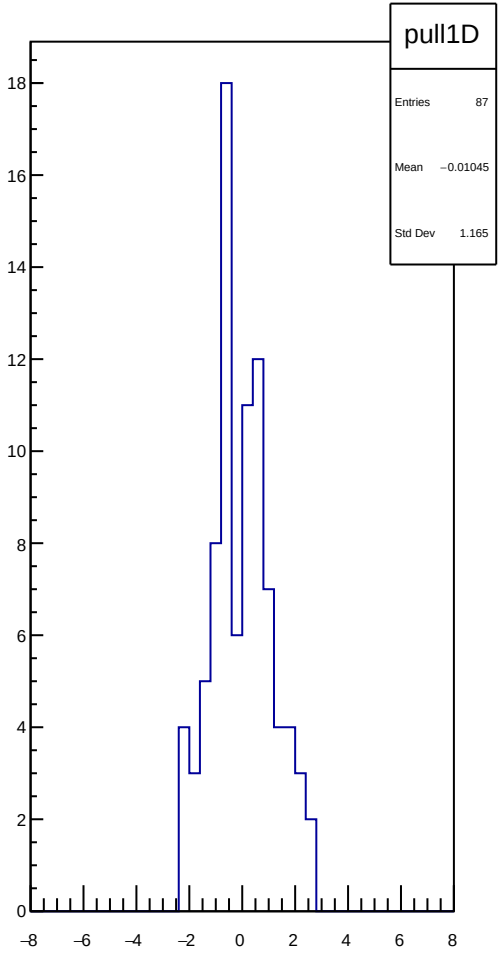

diff_bpmtargetdiffX_rms vs run
χ² / ndf 2.137e+04 / 86
p0 821.8 ± 0.6368
1100
1000
900
800
700

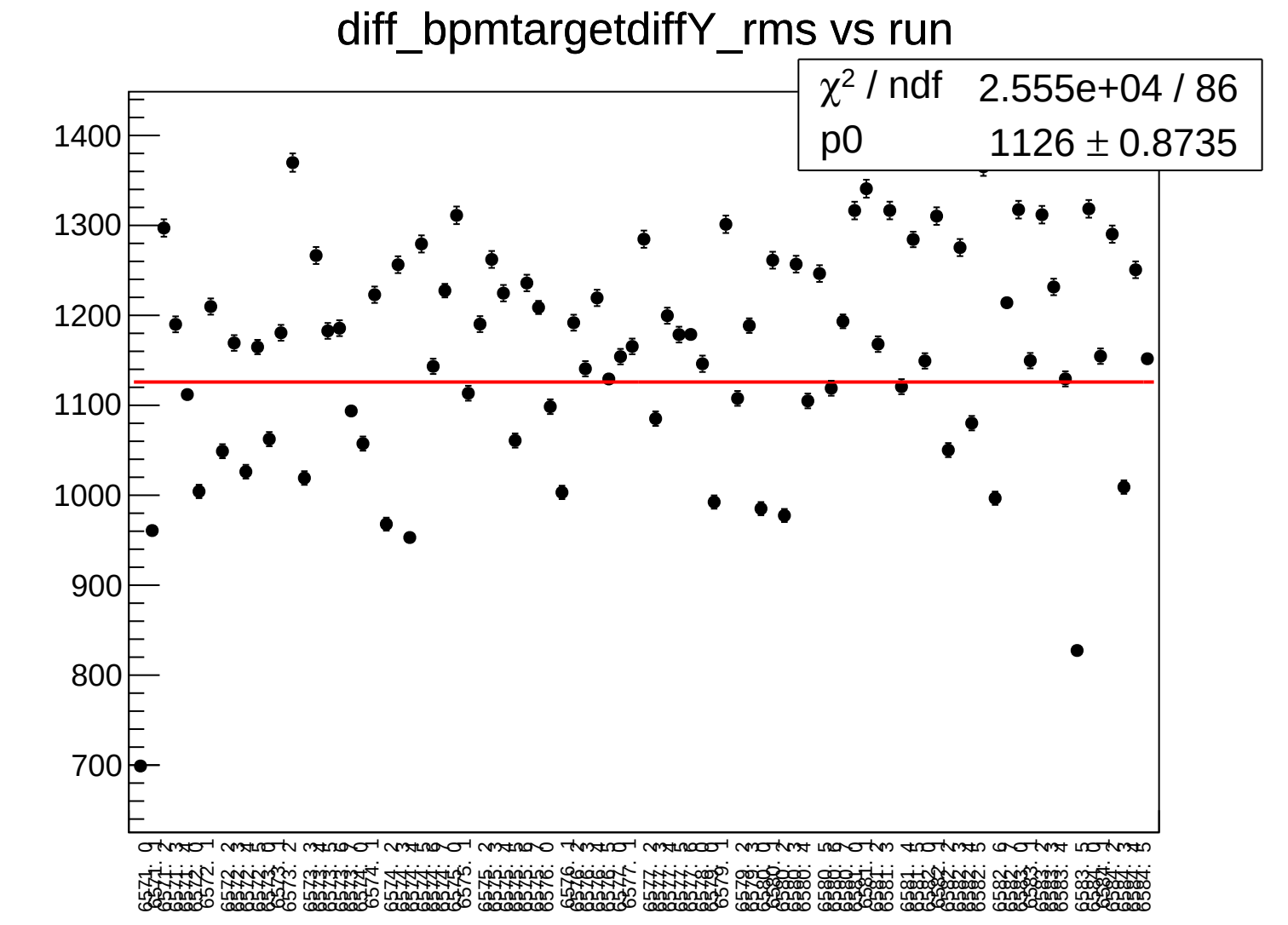

diff_bpmtargetsumY_mean vs run
χ² / ndf 114.9 / 86
p0 −7.724 ± 8.624
pull
Entries 87
Mean 278.1
Std Dev 0

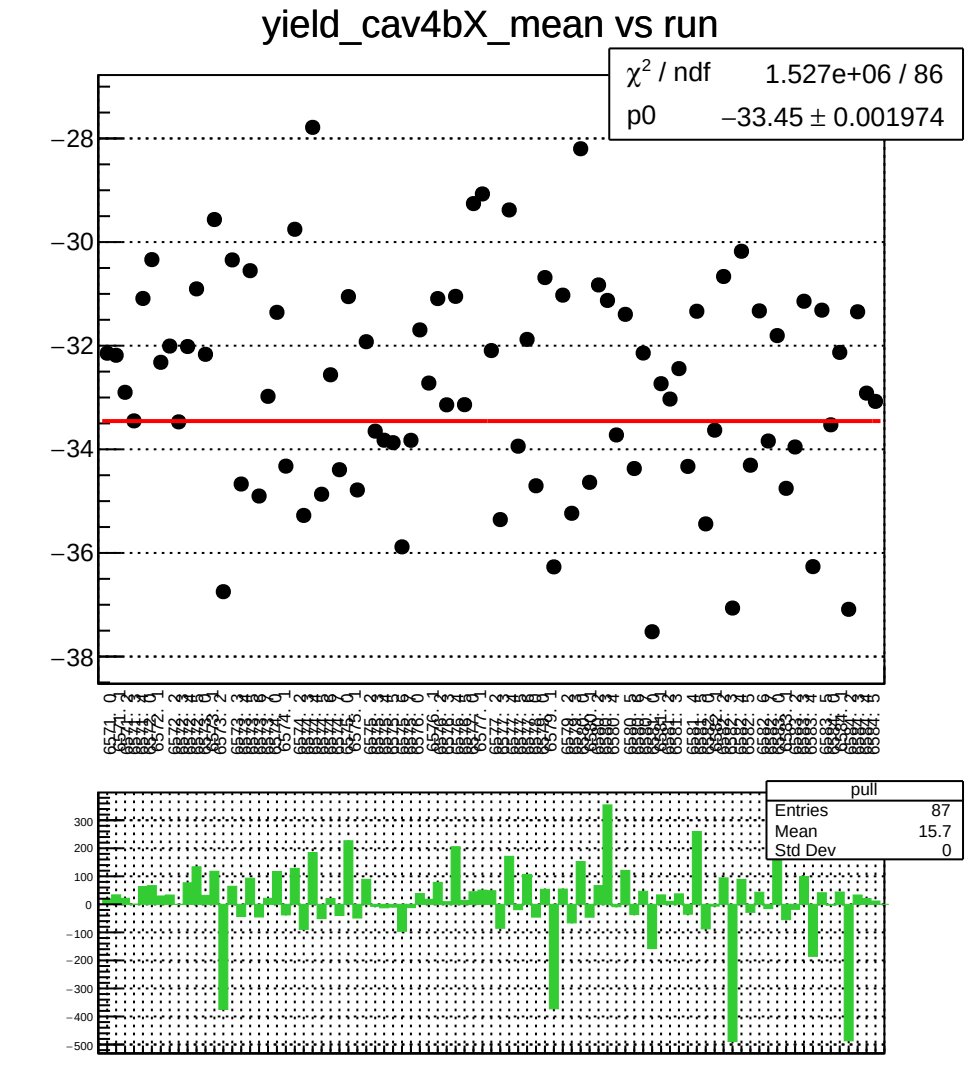

pull1D
Entries 87
Mean −0.01251
Std Dev 1.149

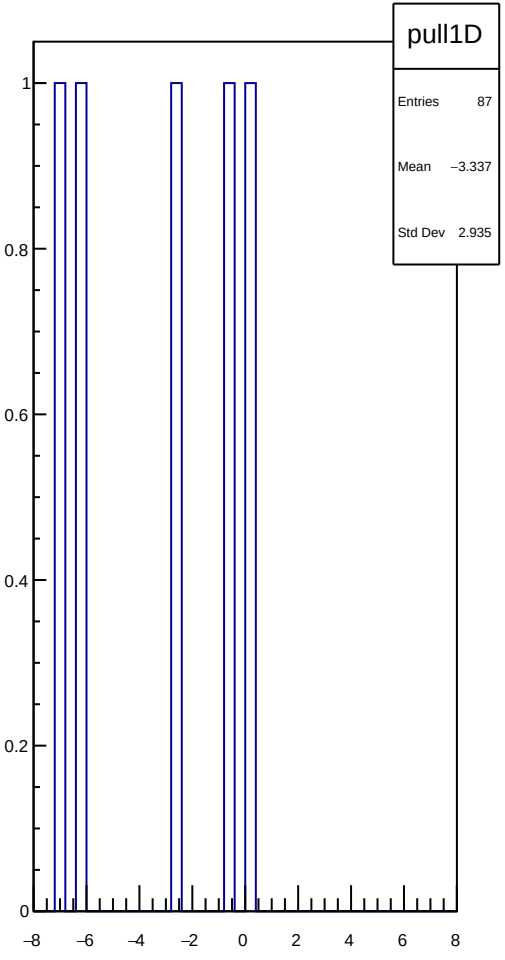

diff_bpmtargetsumY_rms vs run
χ² / ndf 1.15e+04 / 86
p0 7893 ± 6.098
9500
9000
8500
8000
7500
7000
6500
6000

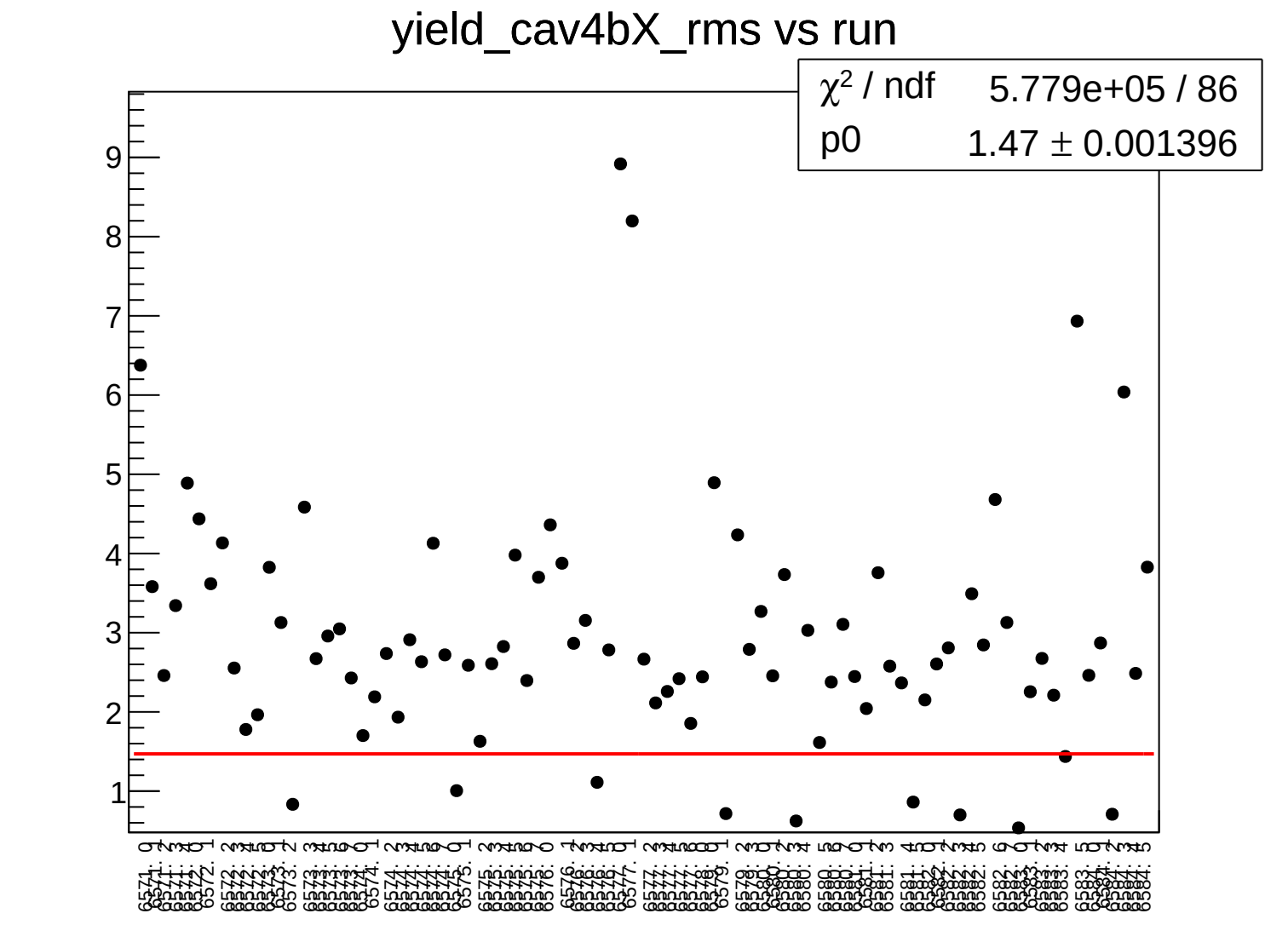

diff_bpmtargetdiffY_mean vs run
χ² / ndf 118 / 86
p0 −1.447 ± 1.235
pull
Entries 87
Mean −89.01
Std Dev 0

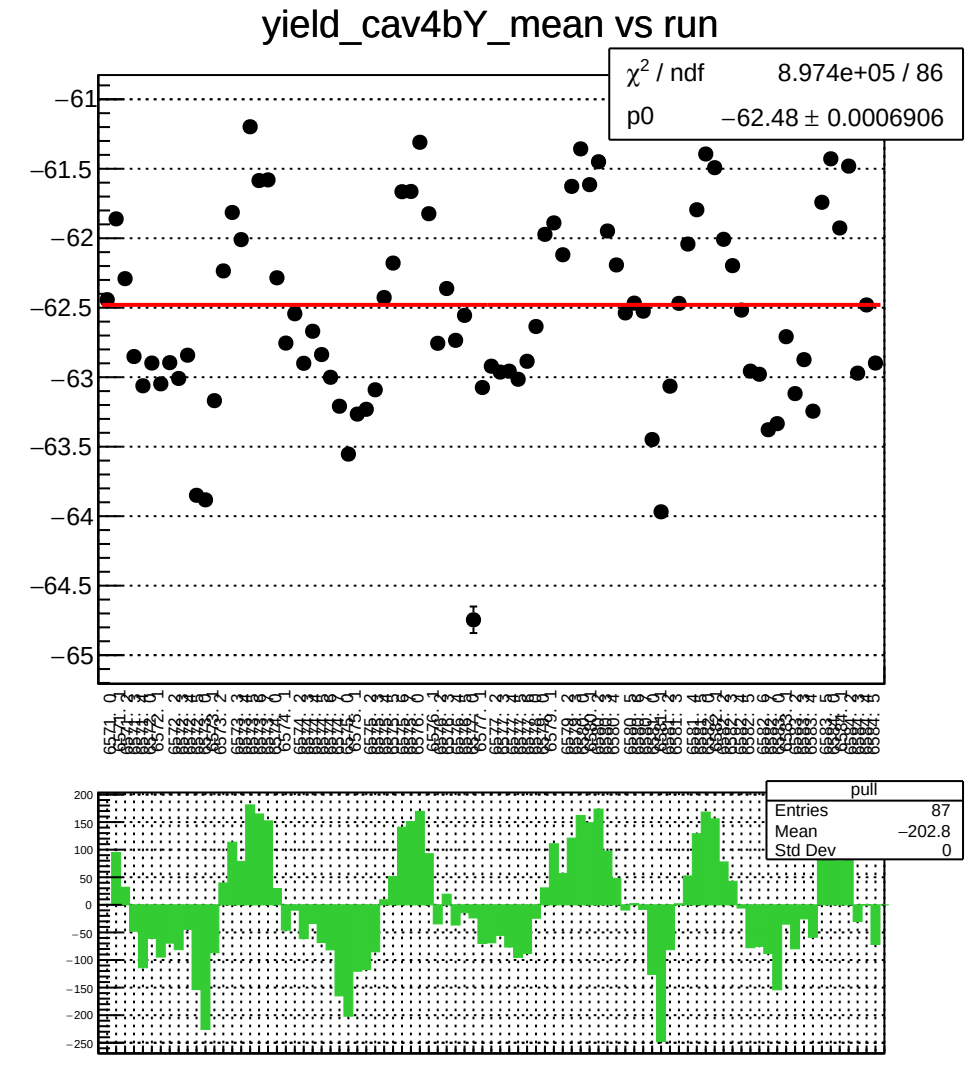

pull1D
Entries 87
Mean −0.01045
Std Dev 1.165

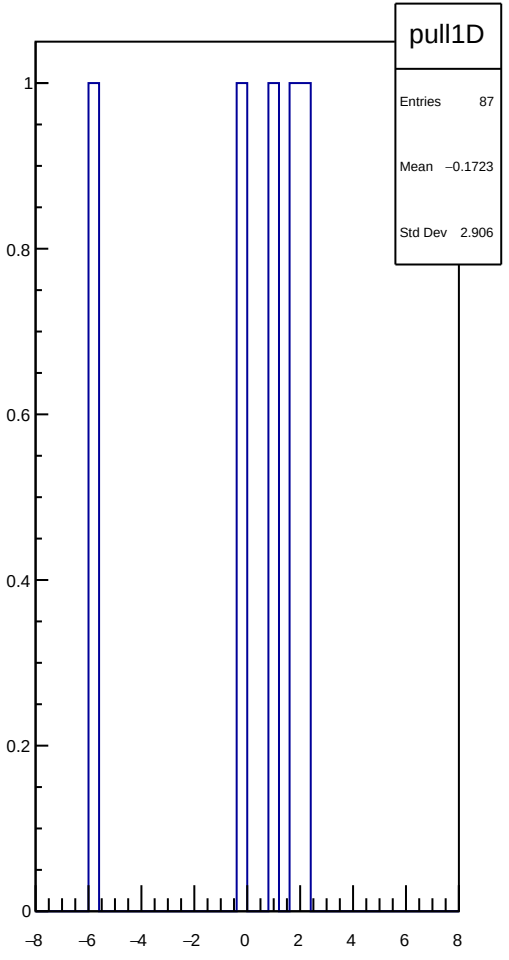

diff_bpmtargetdiffY_rms vs run
χ² / ndf 2.555e+04 / 86
p0 1126 ± 0.8735
1400
1300
1200
1100
1000
900
800
700

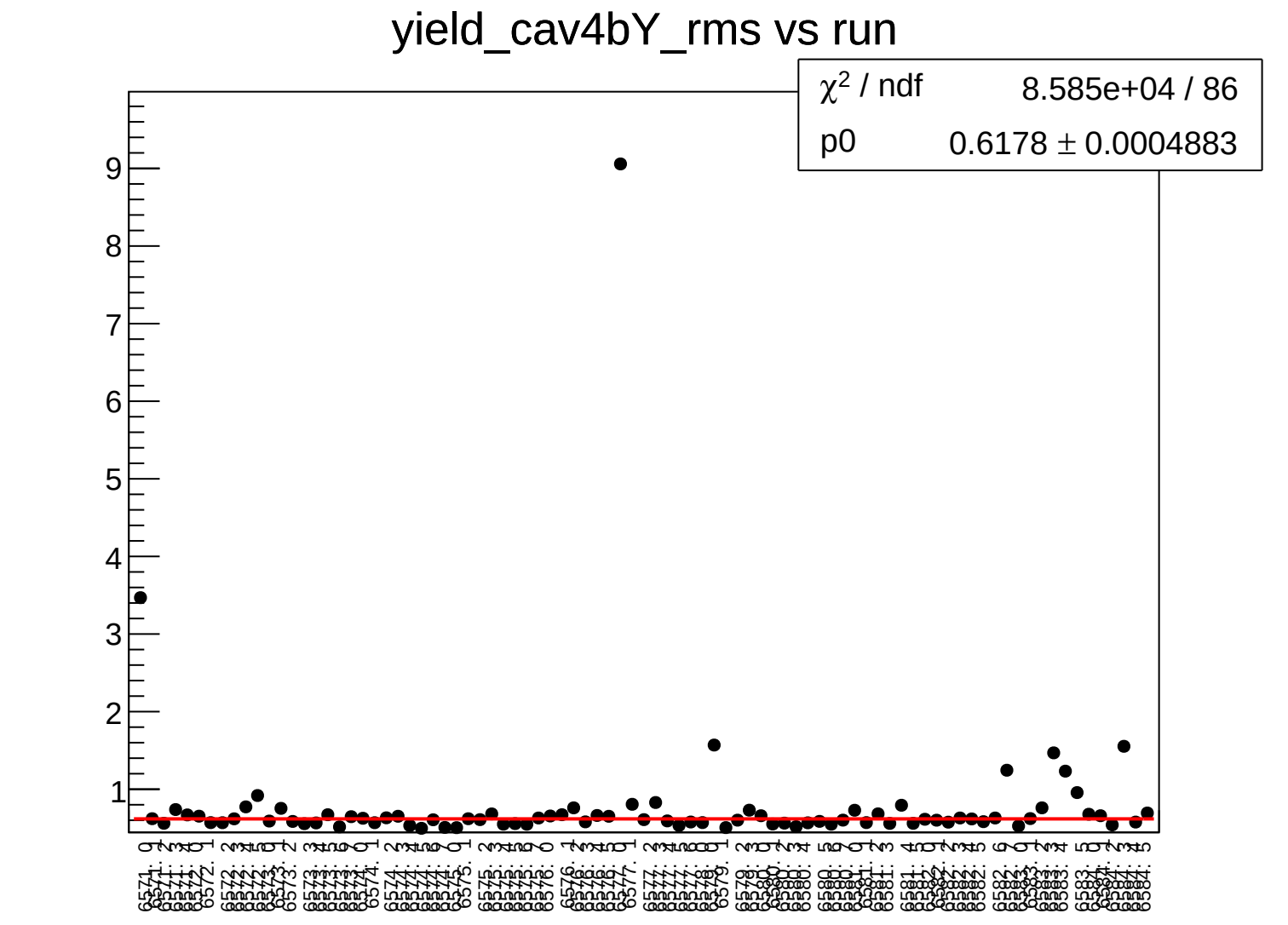

yield_cav4bX_mean vs run
χ² / ndf 1.527e+06 / 86
p0 −33.45 ± 0.001974
pull
Entries 87
Mean 15.7
Std Dev 0

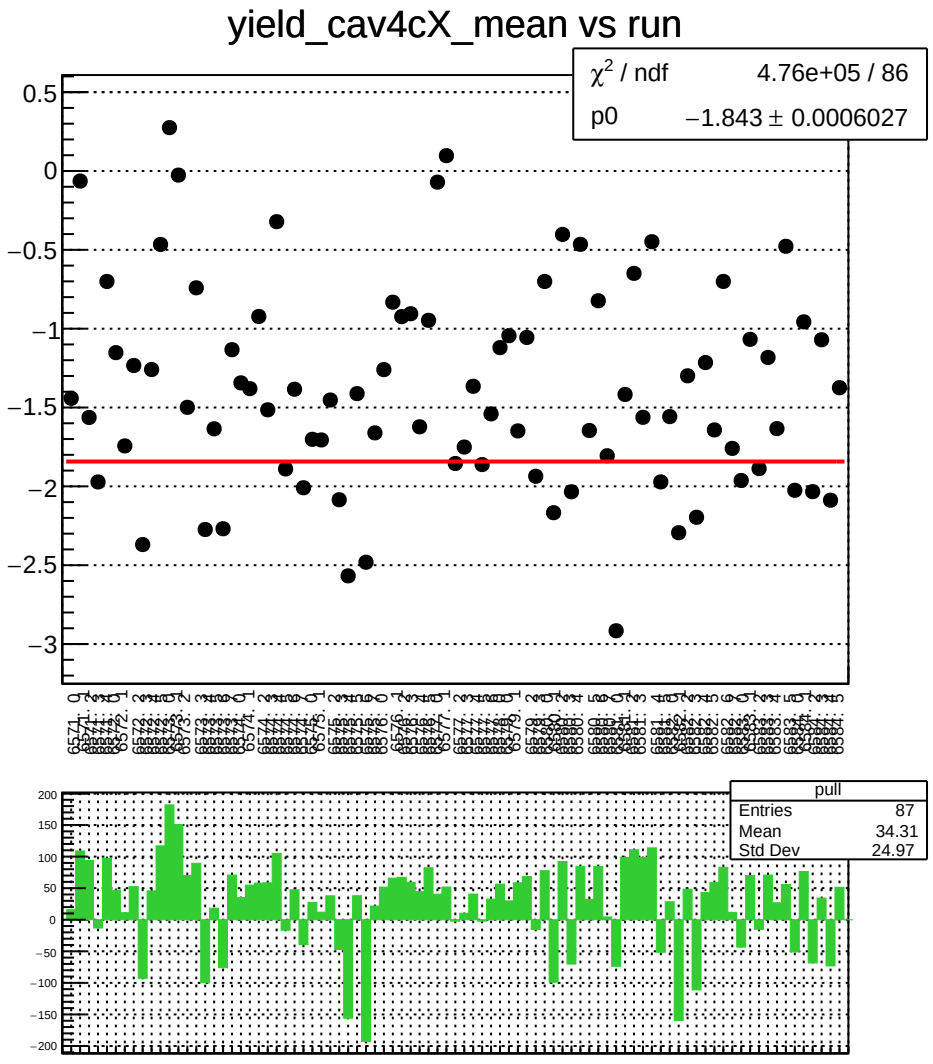

pull1D
Entries 87
Mean −3.337
Std Dev 2.935

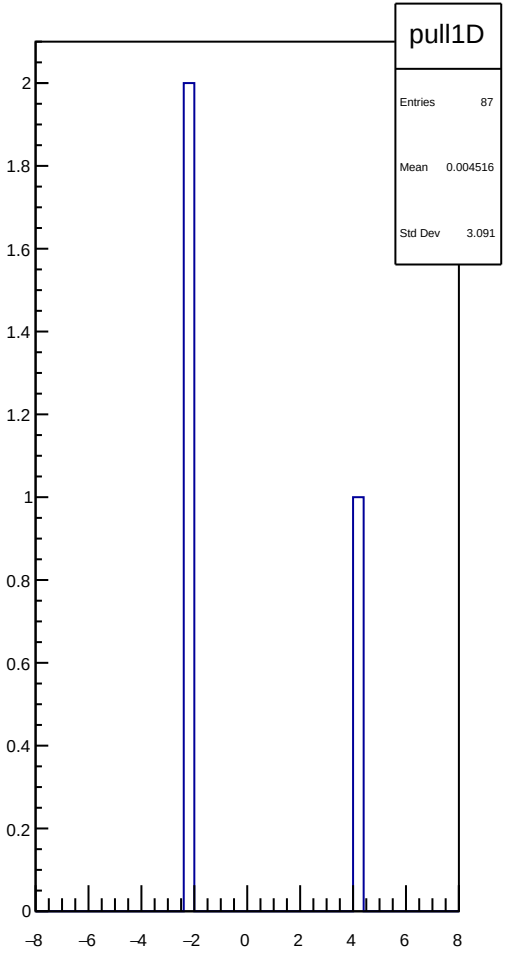

yield_cav4bX_rms vs run
χ^2 / ndf 5.779e+05 / 86
p0 1.47 ± 0.001396

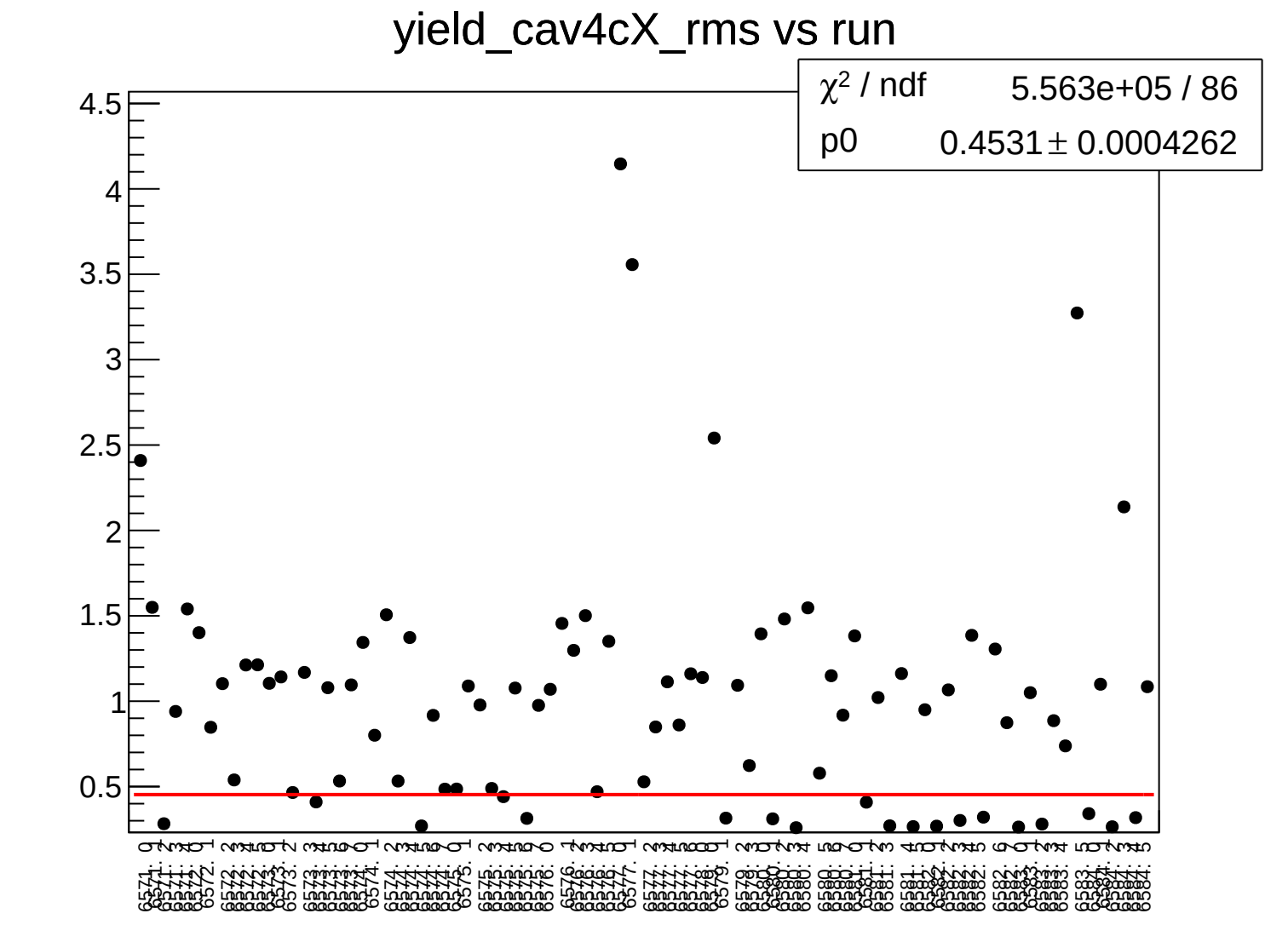

yield_cav4bY_mean vs run
χ² / ndf 8.974e+05 / 86
p0 −62.48 ± 0.0006906
pull
Entries 87
Mean −202.8
Std Dev 0

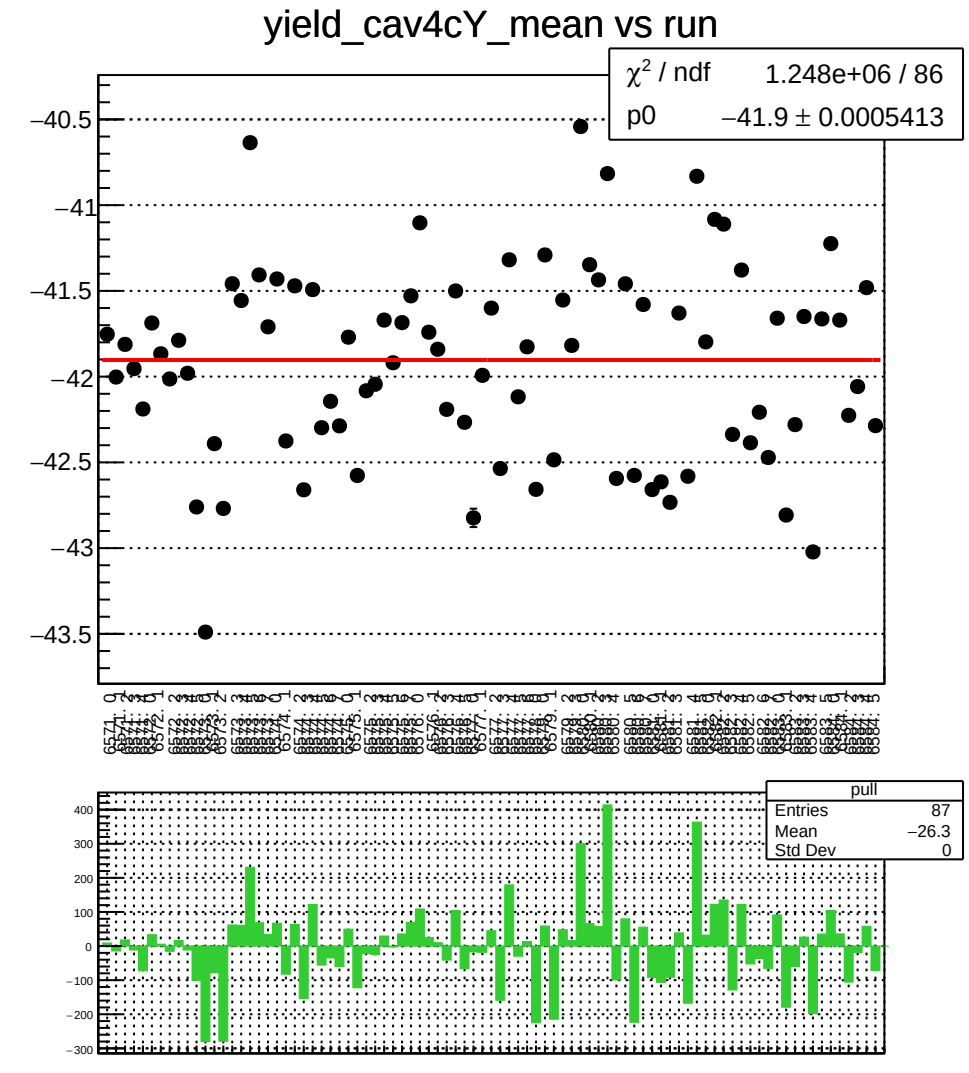

pull1D
Entries 87
Mean −0.1723
Std Dev 2.906

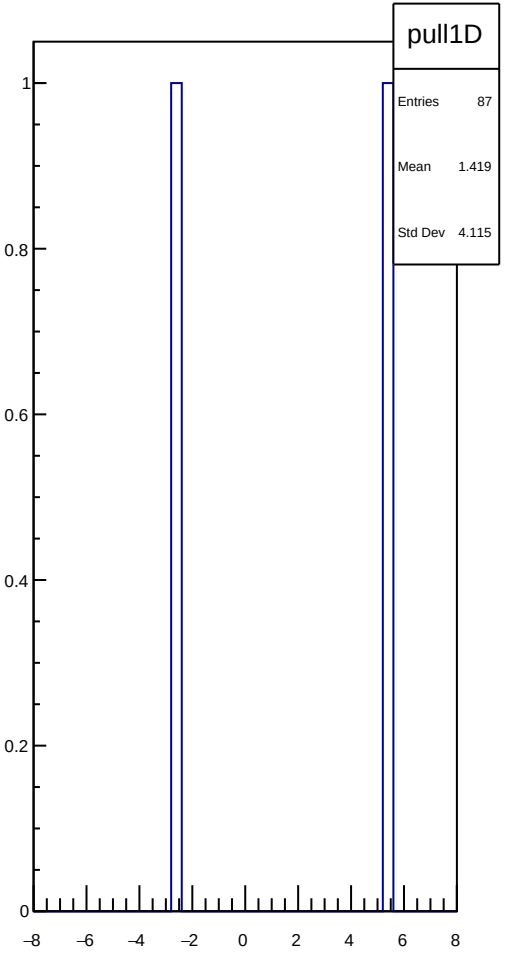

yield_cav4bY_rms vs run
χ² / ndf 8.585e+04 / 86
p0 0.6178 ± 0.0004883
9
8
7
6
5
4
3
2
1

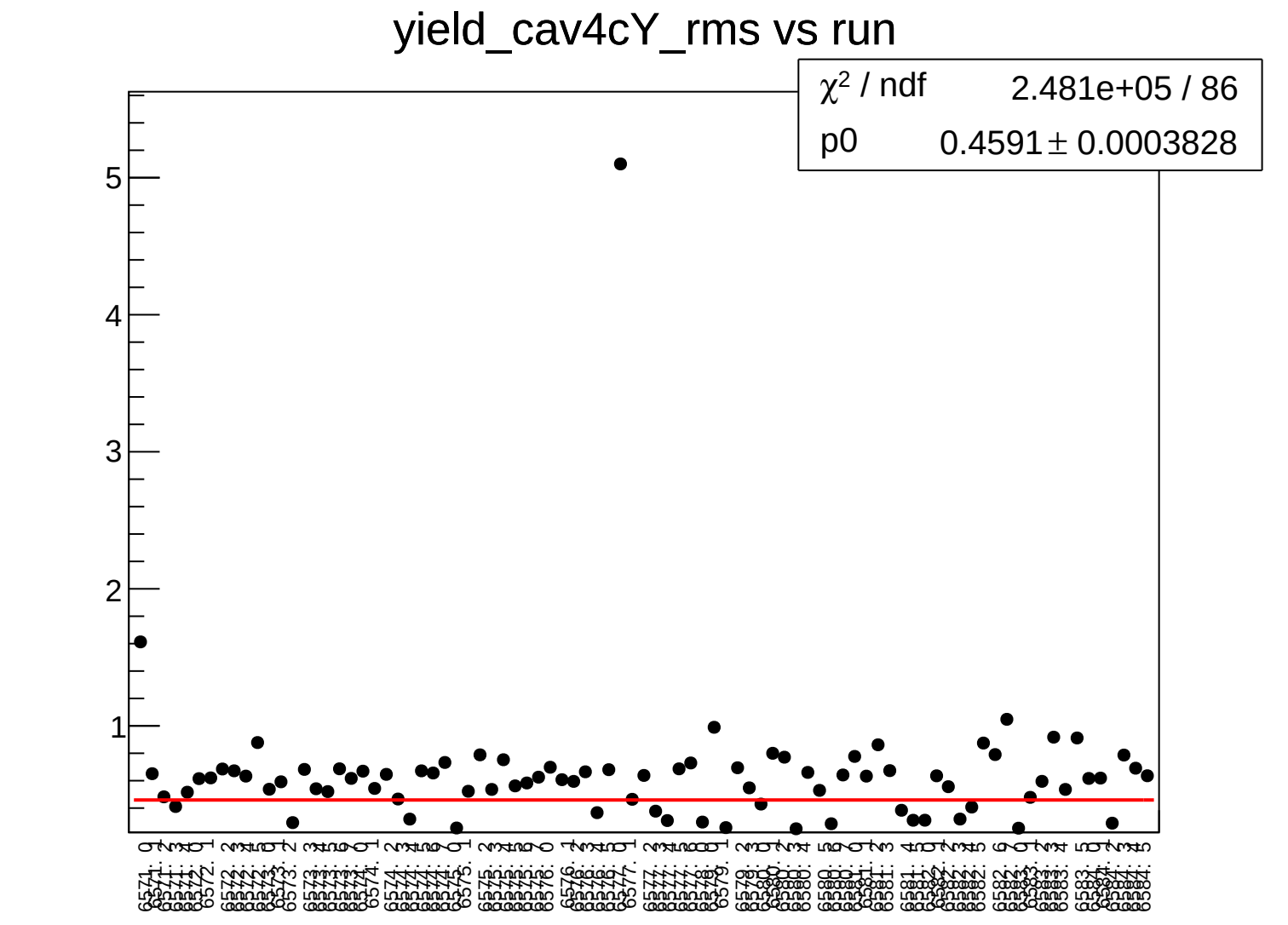

yield_cav4cX_mean vs run
χ² / ndf 4.76e+05 / 86
p0 −1.843 ± 0.0006027
pull
Entries 87
Mean 34.31
Std Dev 24.97

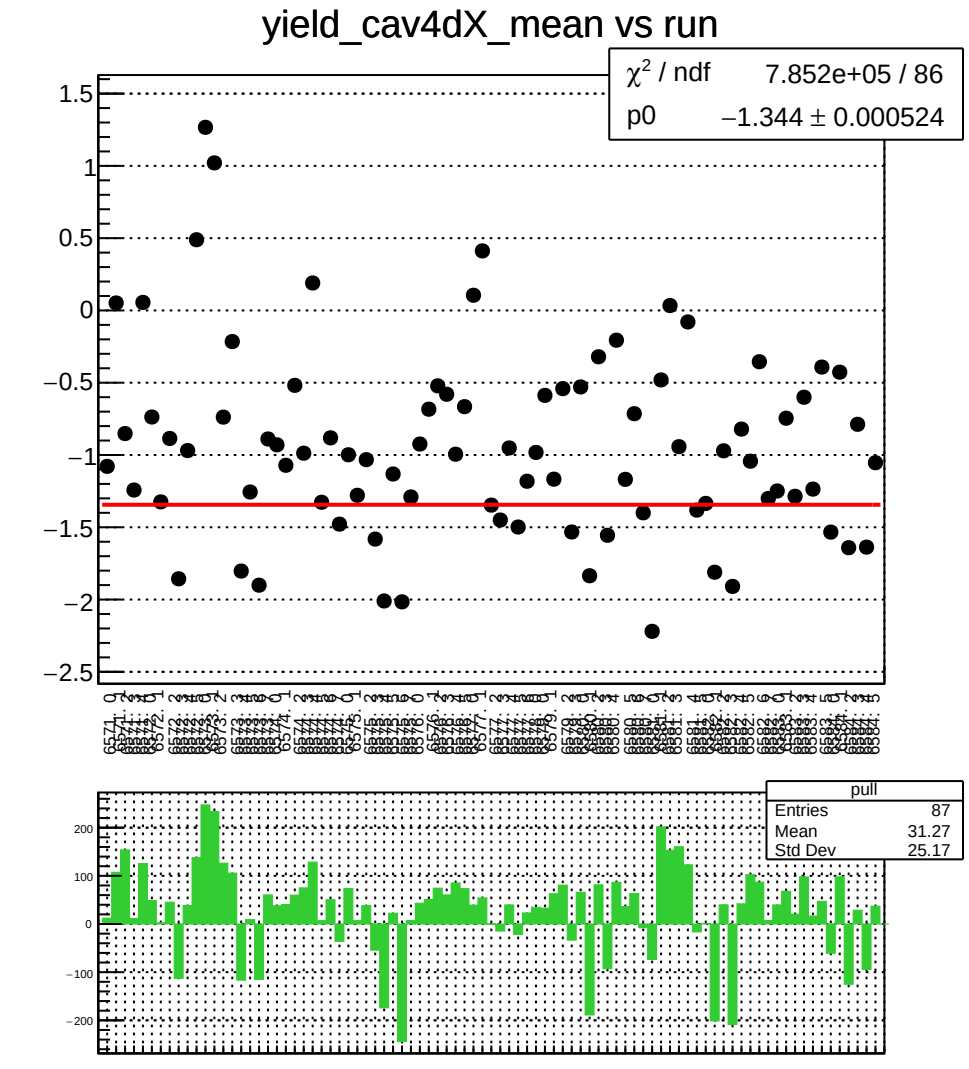

pull1D
Entries 87
Mean 0.004516
Std Dev 3.091

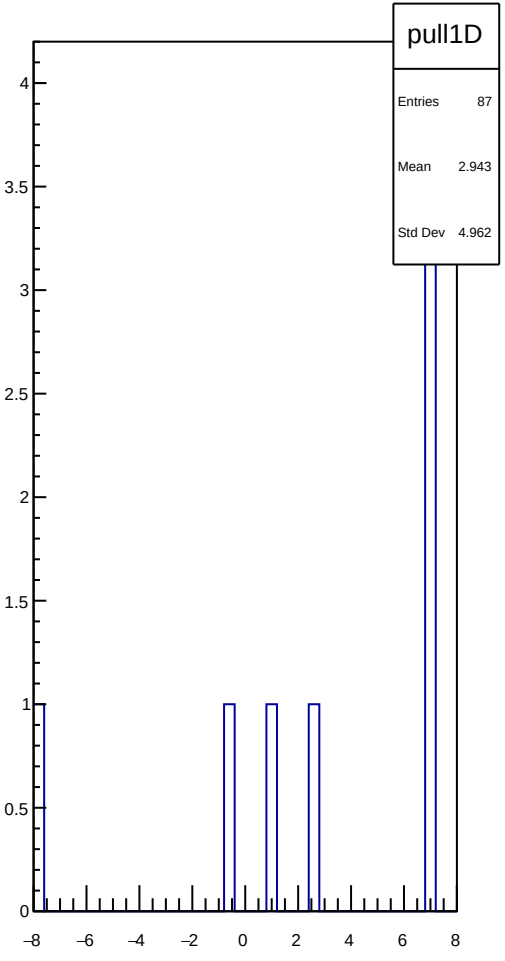

yield_cav4cX_rms vs run
χ^2 / ndf 5.563e+05 / 86
p0 0.4531 ± 0.0004262
4.5
4
3.5
3
2.5
2
1.5
1
0.5

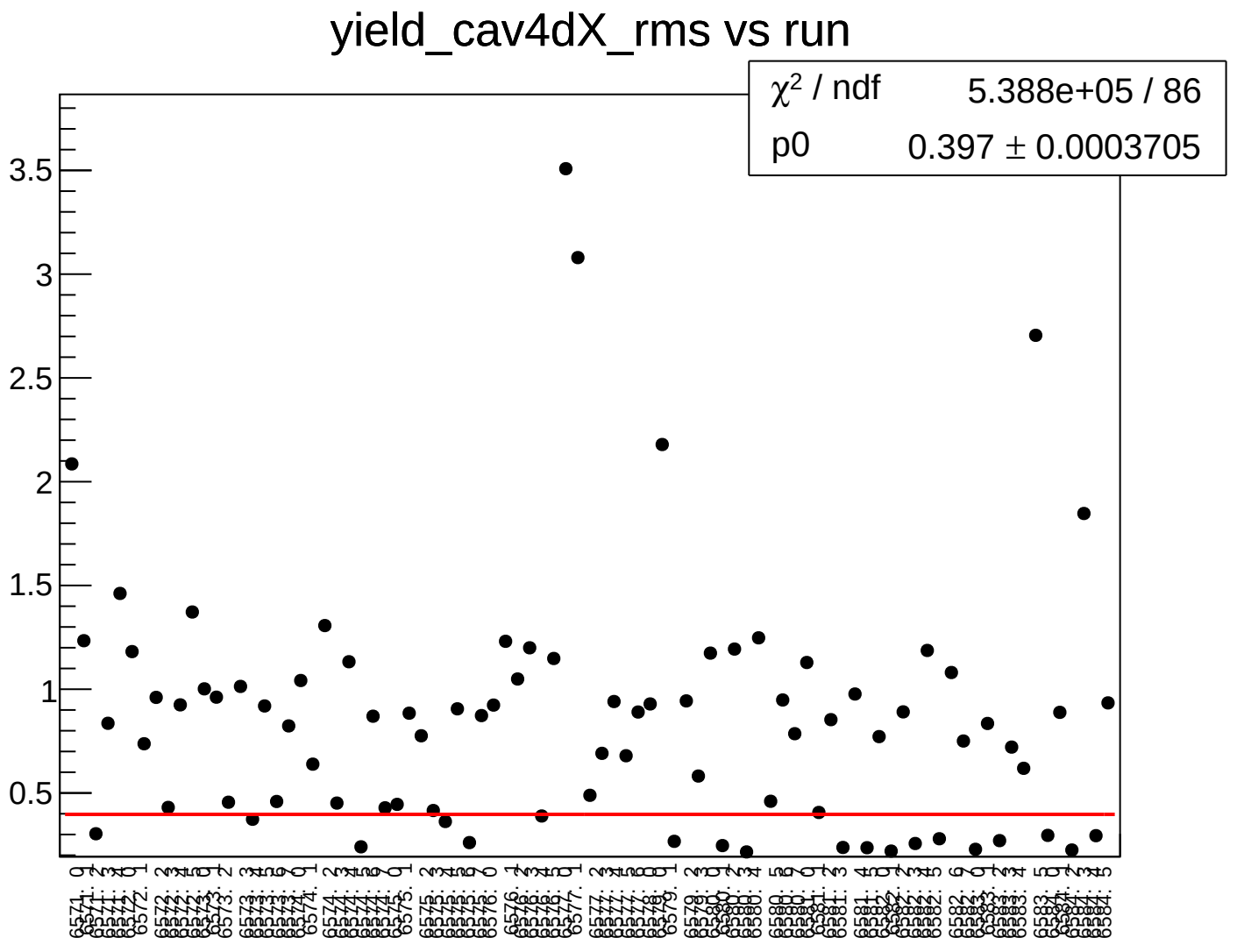

yield_cav4cY_mean vs run
χ² / ndf 1.248e+06 / 86
p0 −41.9 ± 0.0005413
−40.5
−41
−41.5
−42
−42.5
−43
−43.5
pull
Entries 87
Mean −26.3
Std Dev 0
400
300
200
100
0
−100
−200
−300

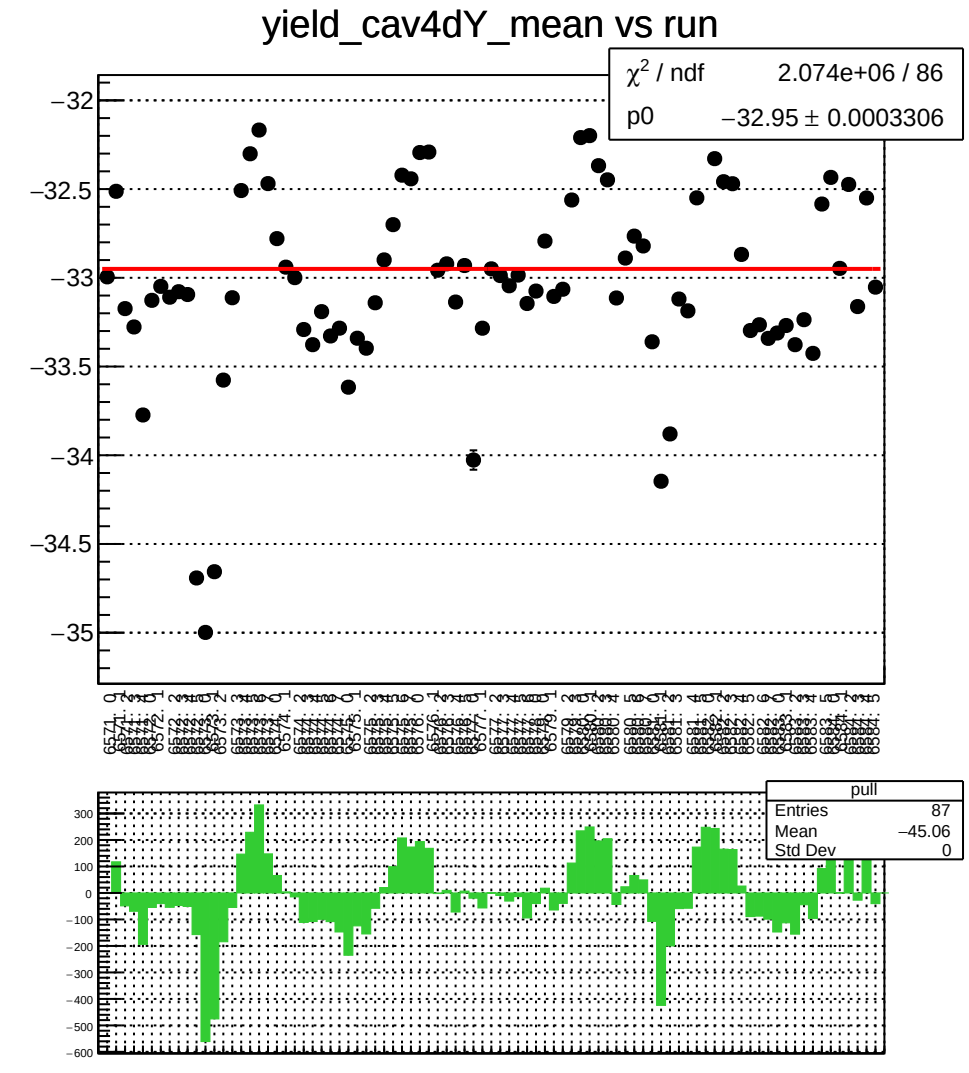

pull1D
Entries 87
Mean 1.419
Std Dev 4.115
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

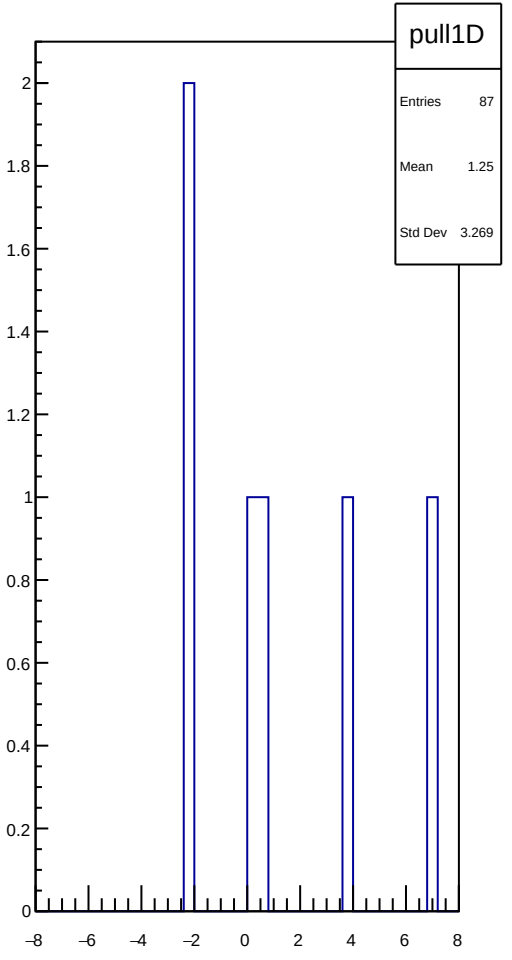

yield_cav4cY_rms vs run
χ² / ndf 2.481e+05 / 86
p0 0.4591 ± 0.0003828
5
4
3
2
1

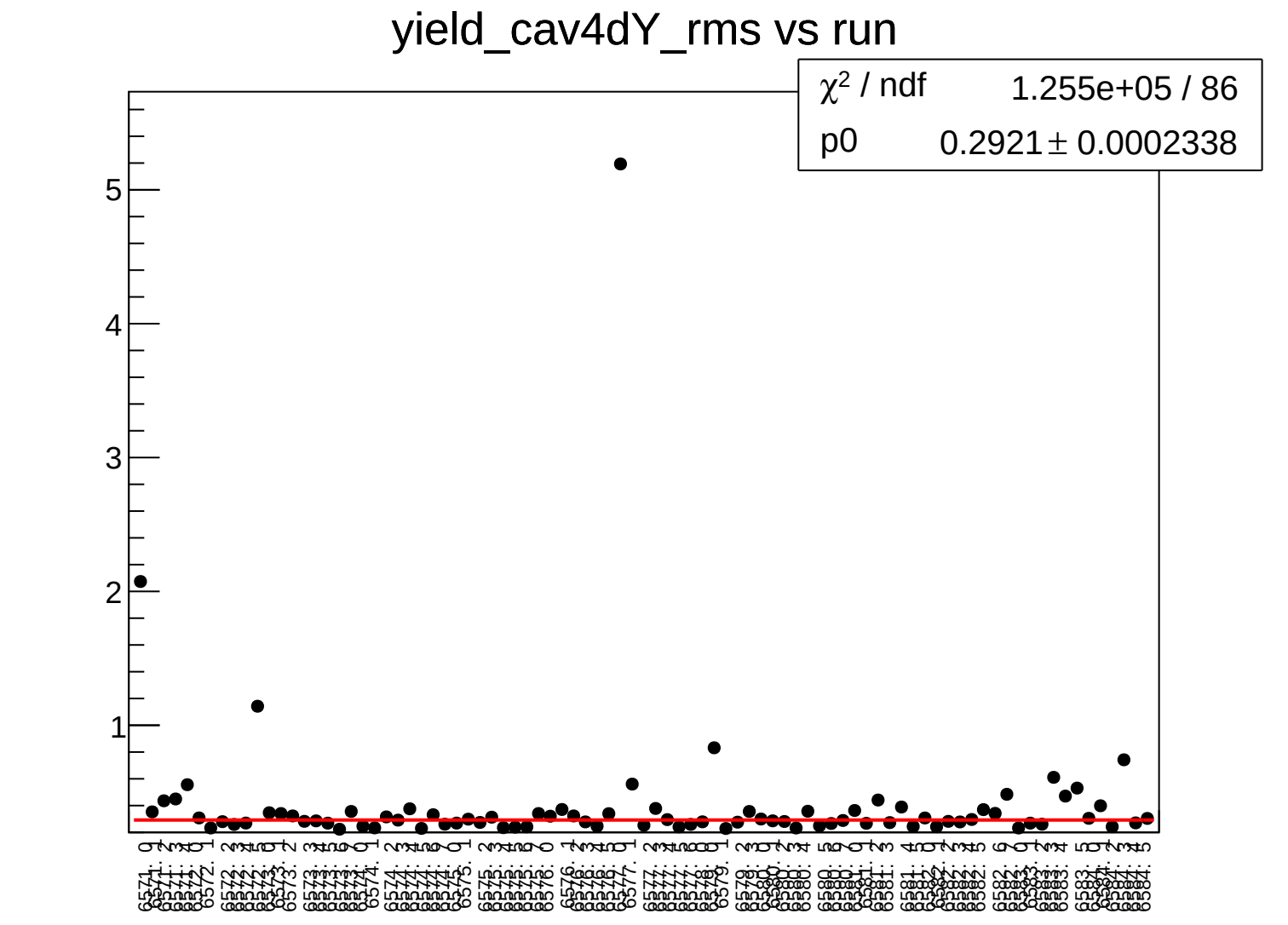

yield_cav4dX_mean vs run
χ² / ndf 7.852e+05 / 86
p0 −1.344 ± 0.000524
pull
Entries 87
Mean 31.27
Std Dev 25.17

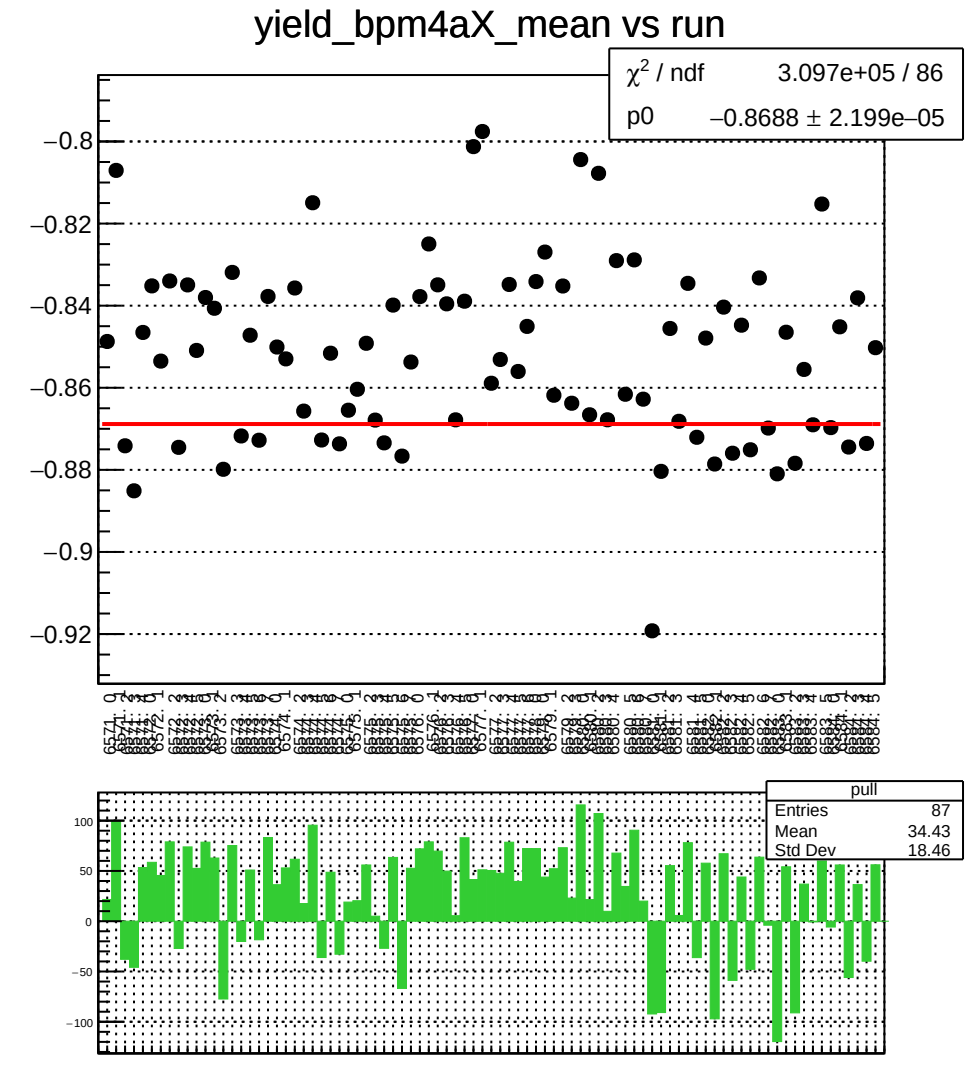

pull1D
Entries 87
Mean 2.943
Std Dev 4.962

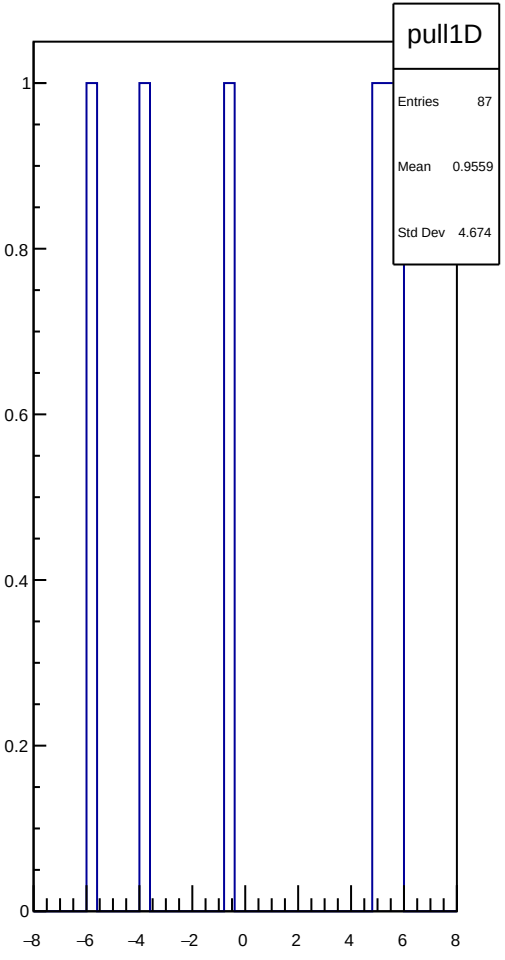

yield_cav4dX_rms vs run
χ² / ndf 5.388e+05 / 86
p0 0.397 ± 0.0003705
3.5
3
2.5
2
1.5
1
0.5

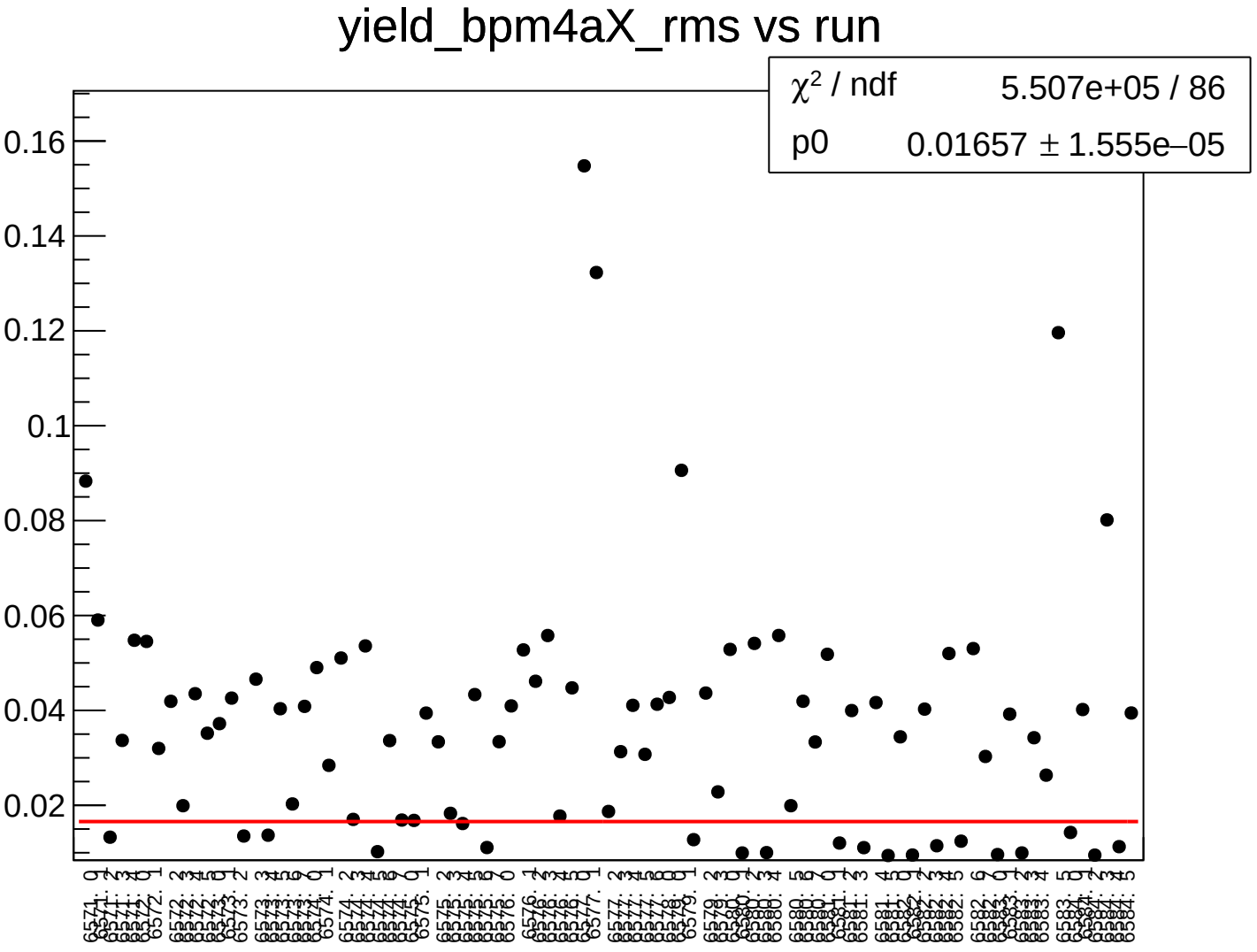

yield_cav4dY_mean vs run
χ² / ndf 2.074e+06 / 86
p0 −32.95 ± 0.0003306
−32
−32.5
−33
−33.5
−34
−34.5
−35
pull
Entries 87
Mean −45.06
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600

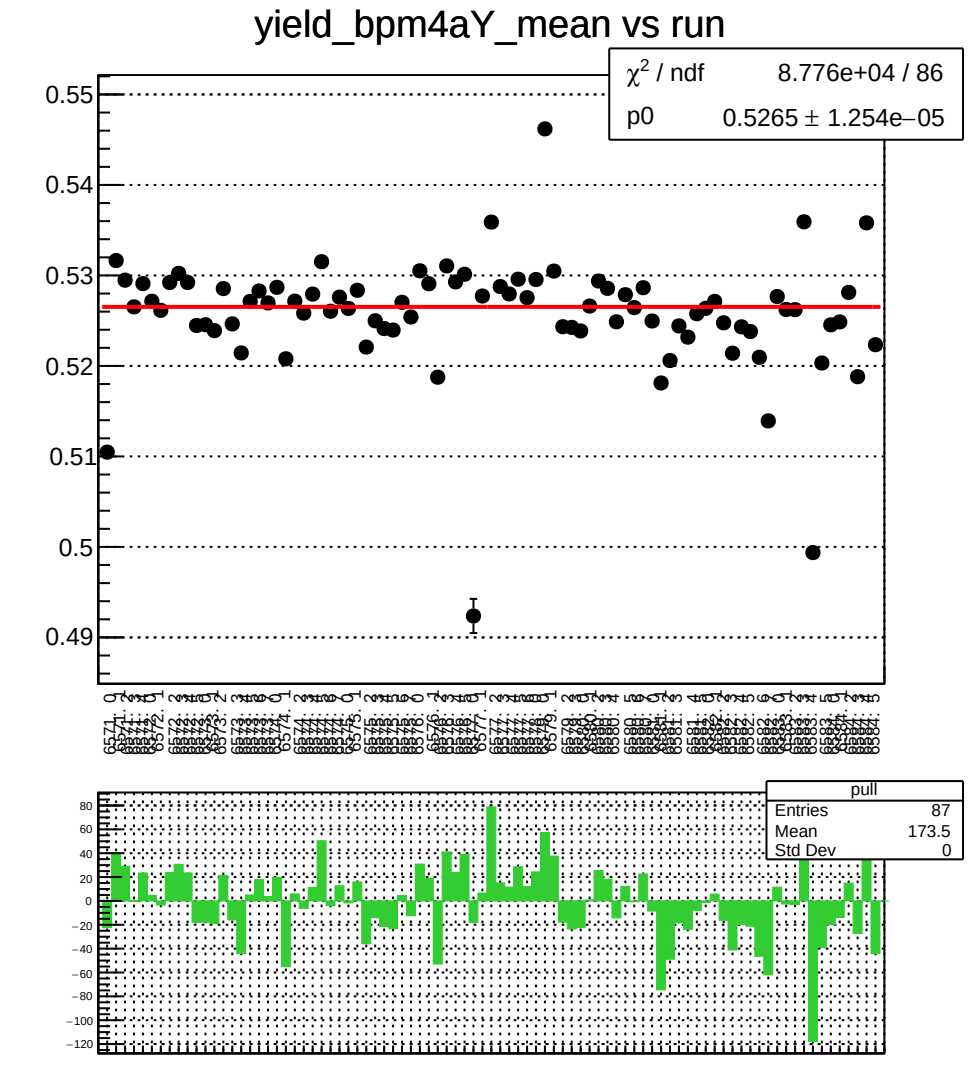

pull1D
Entries 87
Mean 1.25
Std Dev 3.269
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

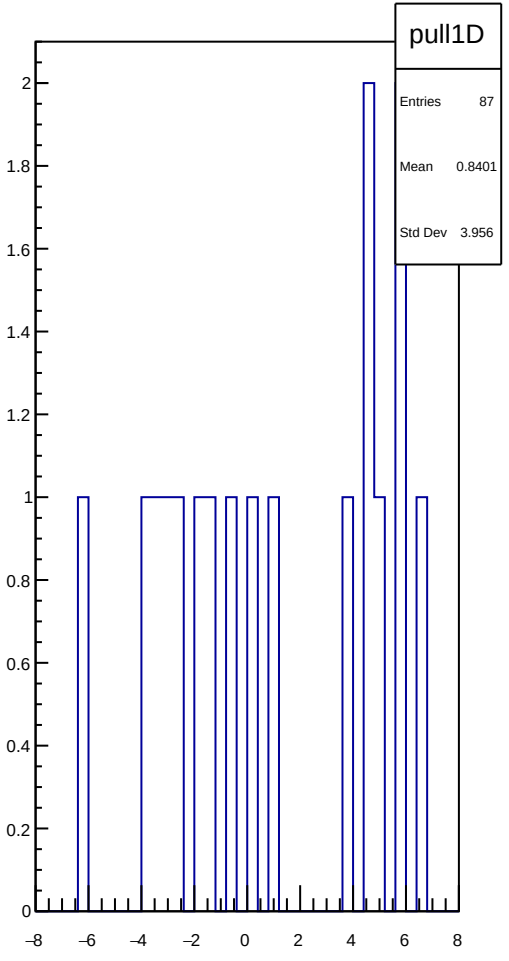

yield_cav4dY_rms vs run
χ² / ndf 1.255e+05 / 86
p0 0.2921 ± 0.0002338
5
4
3
2
1

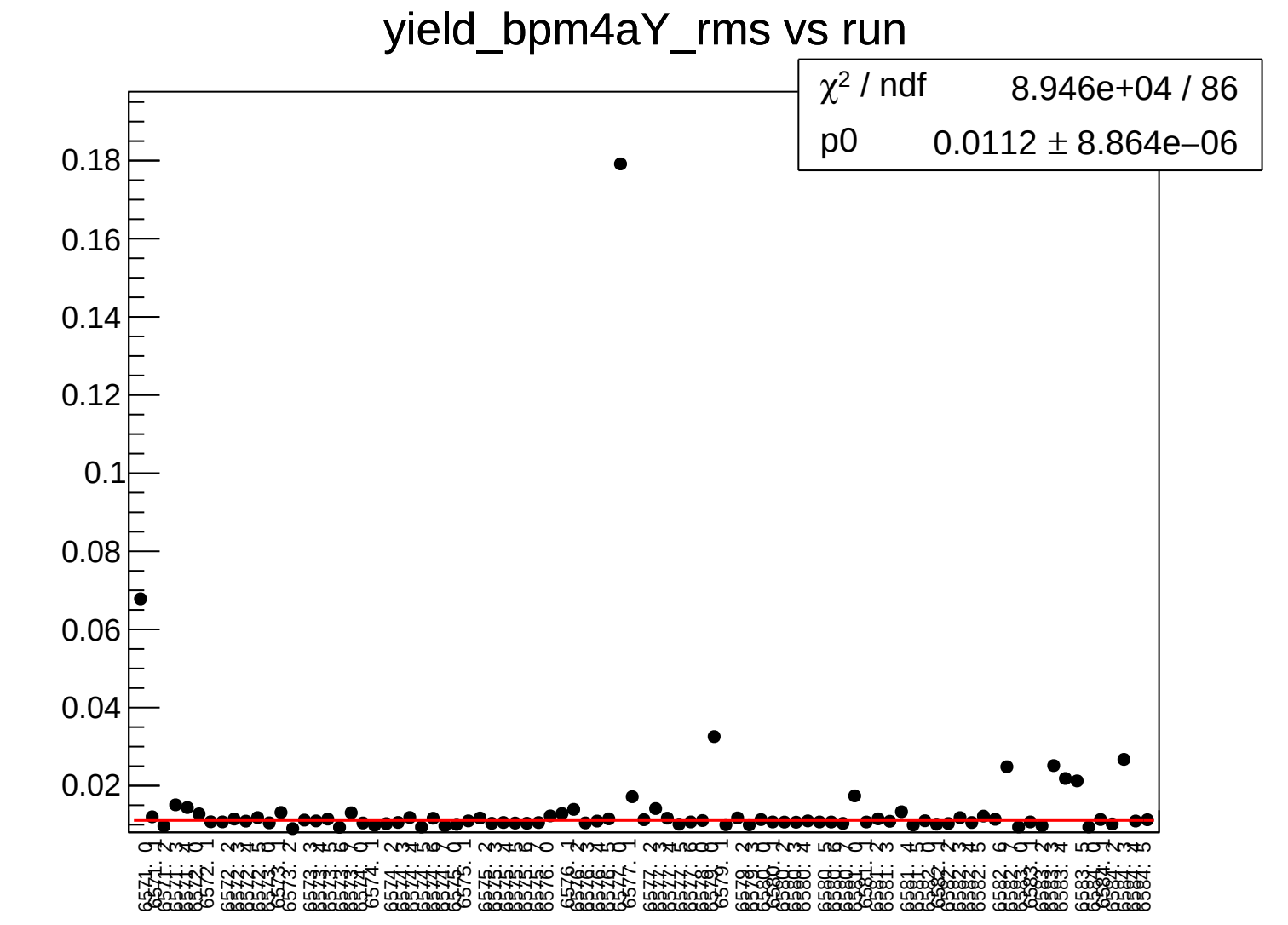

yield_bpm4aX_mean vs run
χ² / ndf 3.097e+05 / 86
p0 −0.8688 ± 2.199e−05
pull
Entries 87
Mean 34.43
Std Dev 18.46

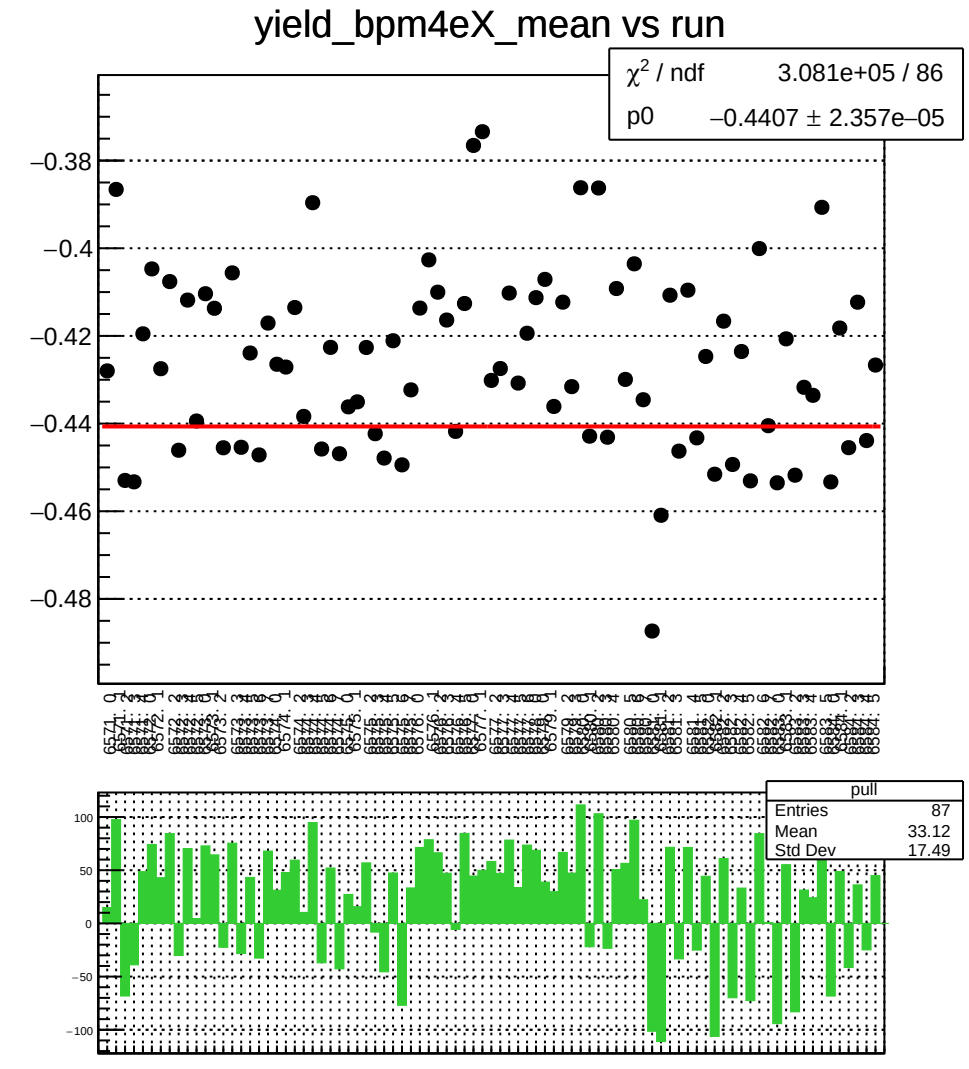

pull1D
Entries 87
Mean 0.9559
Std Dev 4.674

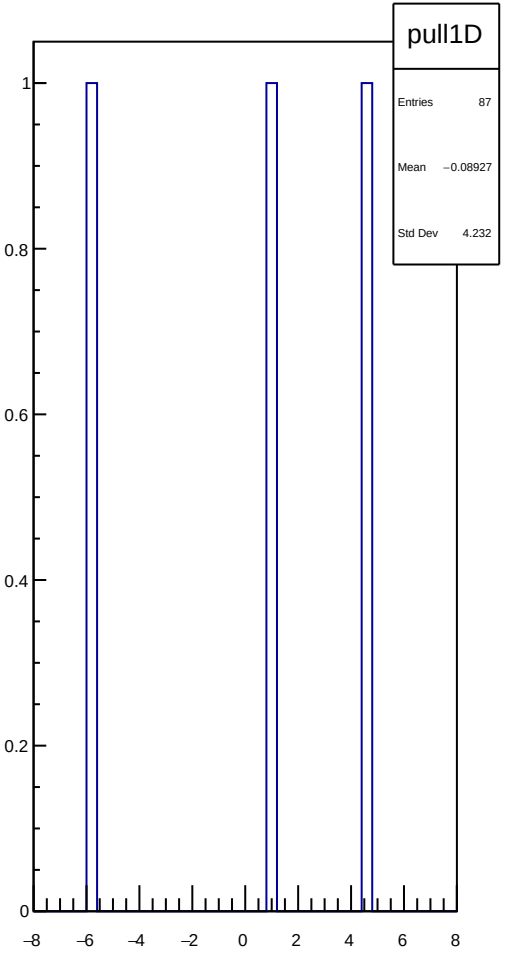

yield_bpm4aX_rms vs run
χ² / ndf 5.507e+05 / 86
p0 0.01657 ± 1.555e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

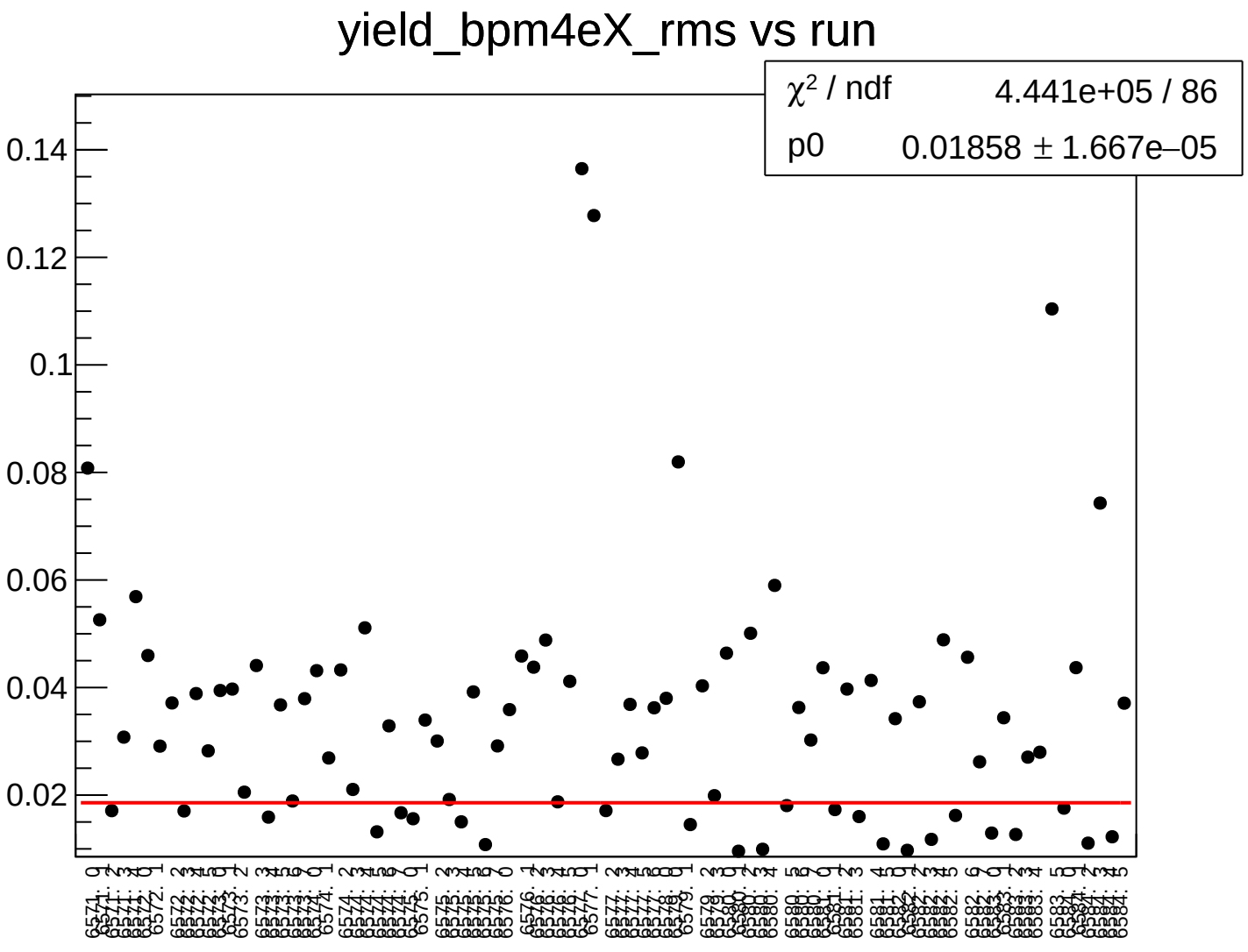

yield_bpm4aY_mean vs run
χ² / ndf 8.776e+04 / 86
p0 0.5265 ± 1.254e−05
0.55
0.54
0.53
0.52
0.51
0.5
0.49
pull
Entries 87
Mean 173.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

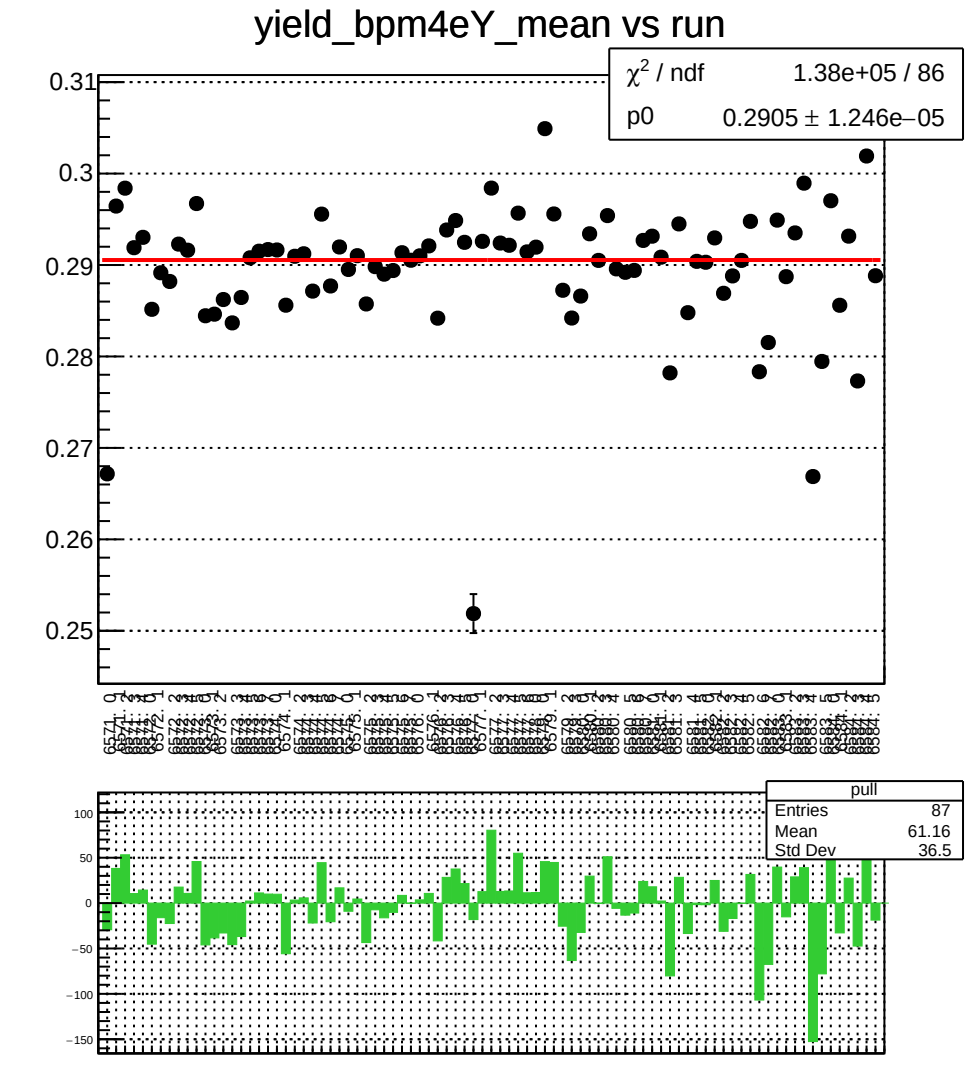

pull1D
Entries 87
Mean 0.8401
Std Dev 3.956
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

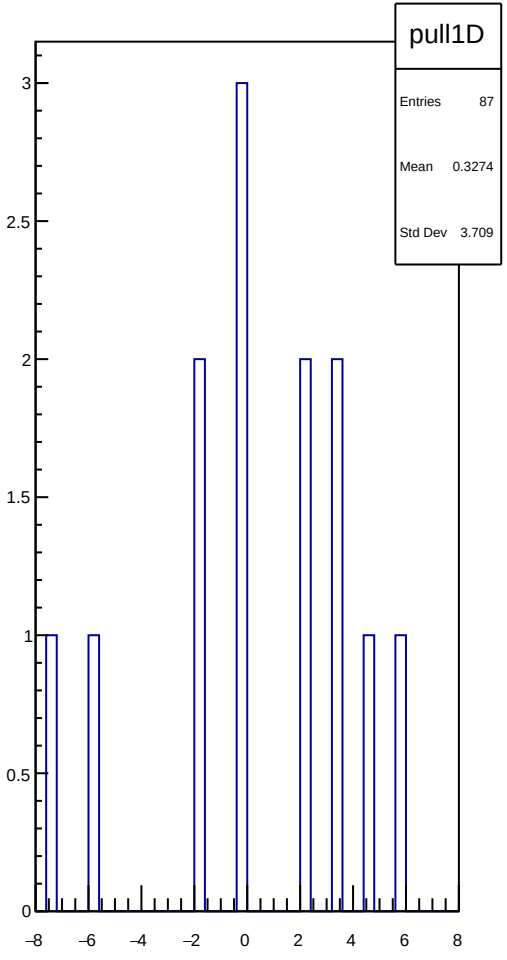

yield_bpm4aY_rms vs run
χ² / ndf 8.946e+04 / 86
p0 0.0112 ± 8.864e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

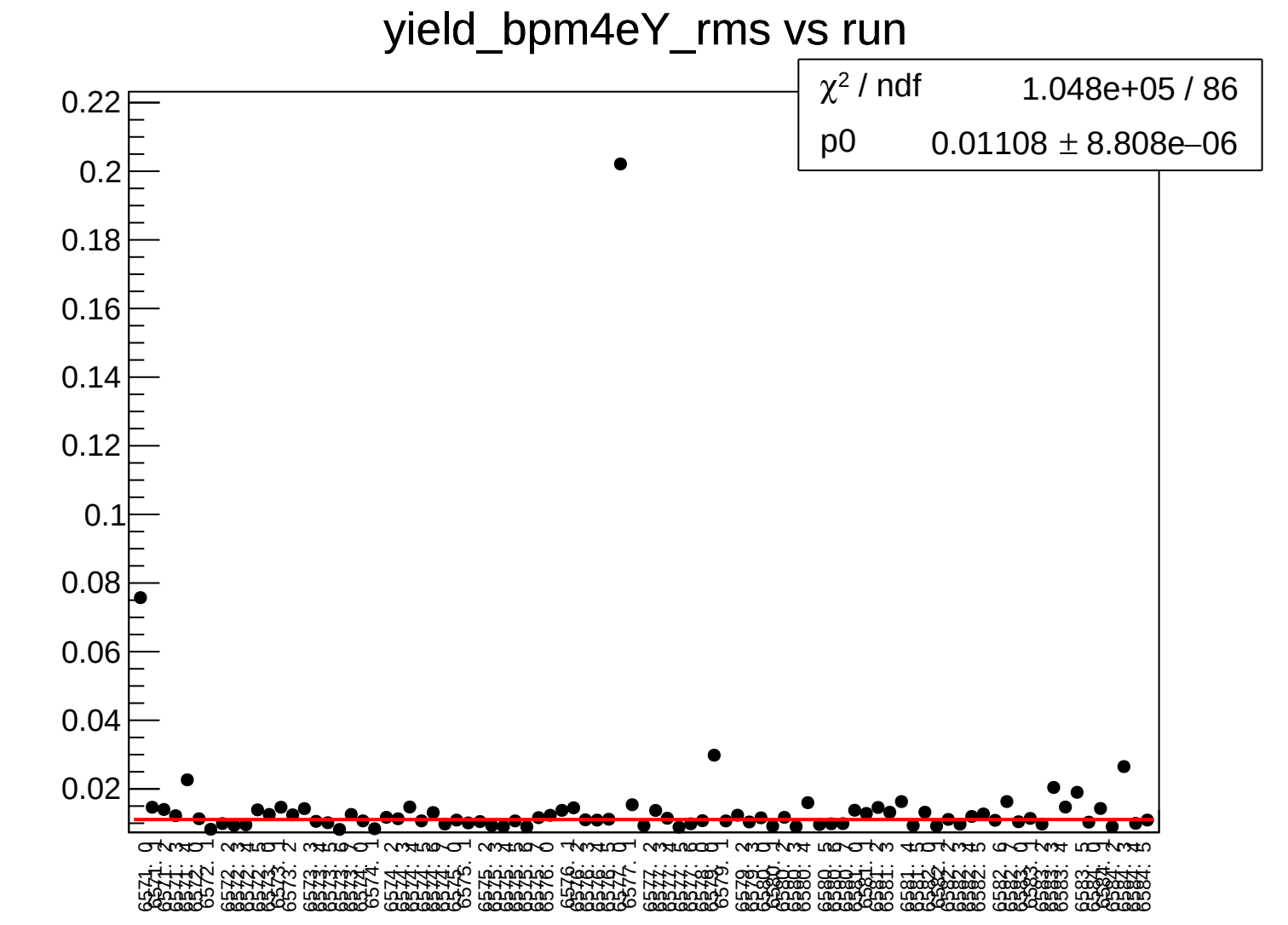

yield_bpm4eX_mean vs run
χ² / ndf 3.081e+05 / 86
p0 −0.4407 ± 2.357e−05
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
pull
Entries 87
Mean 33.12
Std Dev 17.49
100
50
0
−50
−100

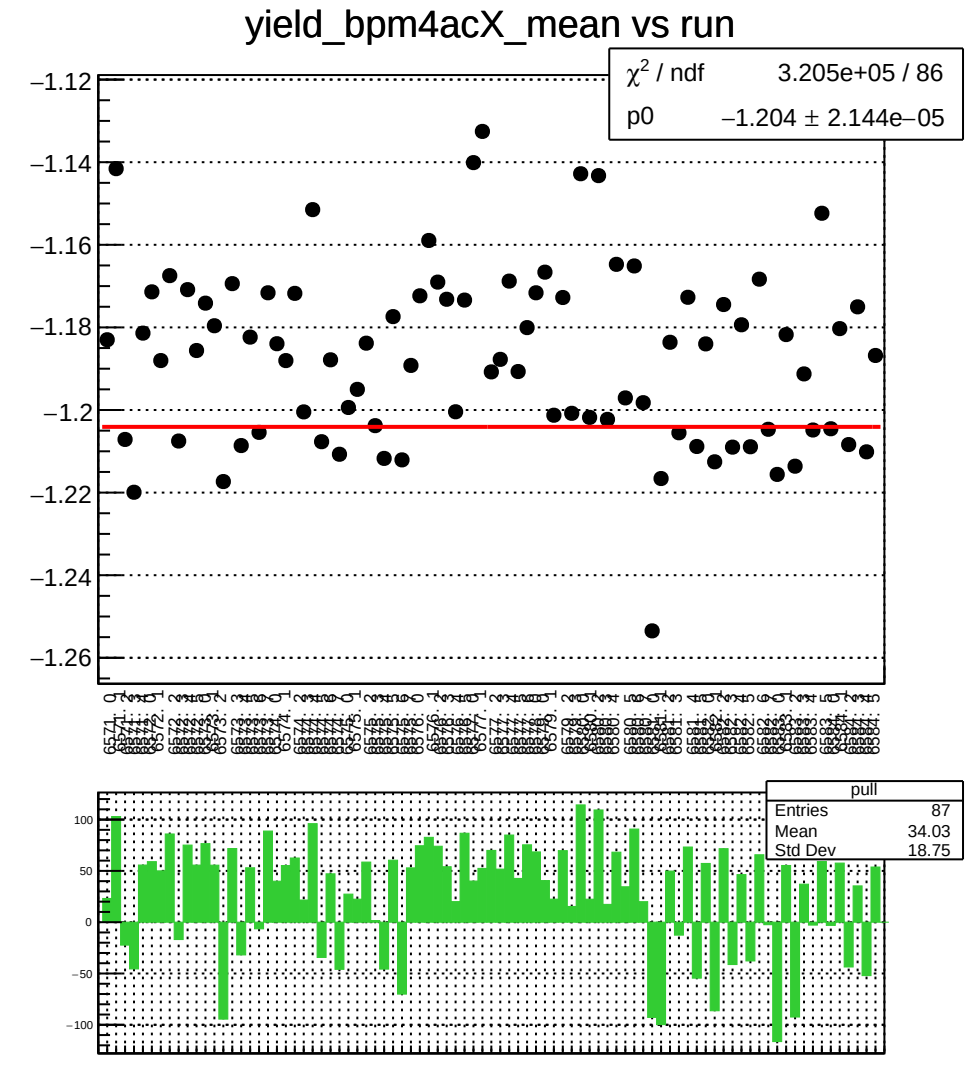

pull1D
Entries 87
Mean −0.08927
Std Dev 4.232
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

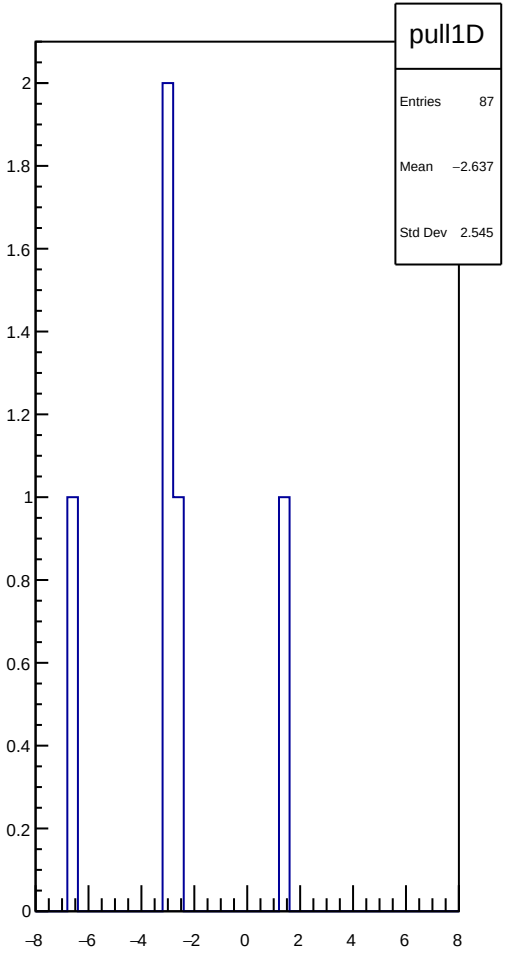

yield_bpm4eX_rms vs run
χ² / ndf 4.441e+05 / 86
p0 0.01858 ± 1.667e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

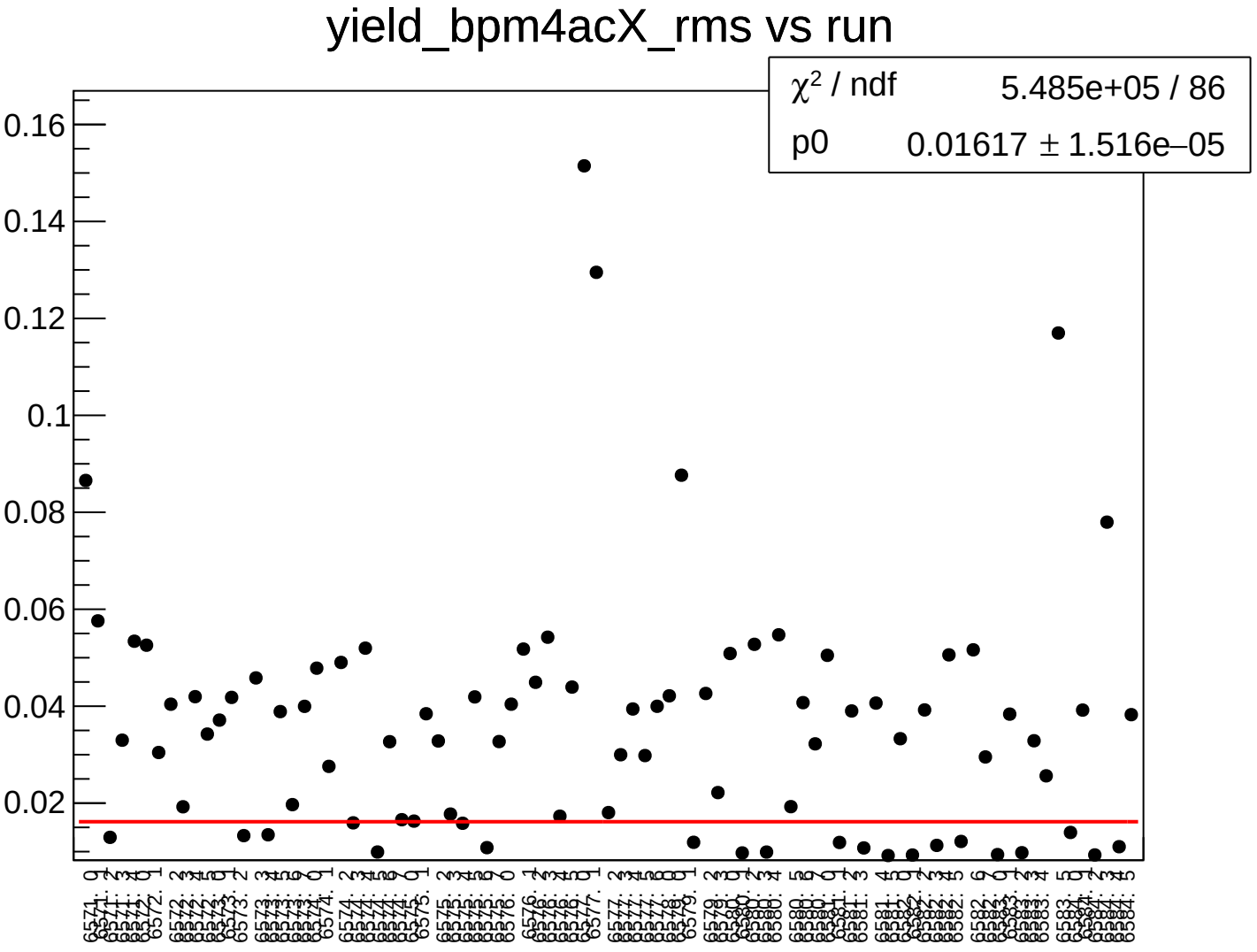

yield_bpm4eY_mean vs run
χ² / ndf 1.38e+05 / 86
p0 0.2905 ± 1.246e−05
pull
Entries 87
Mean 61.16
Std Dev 36.5

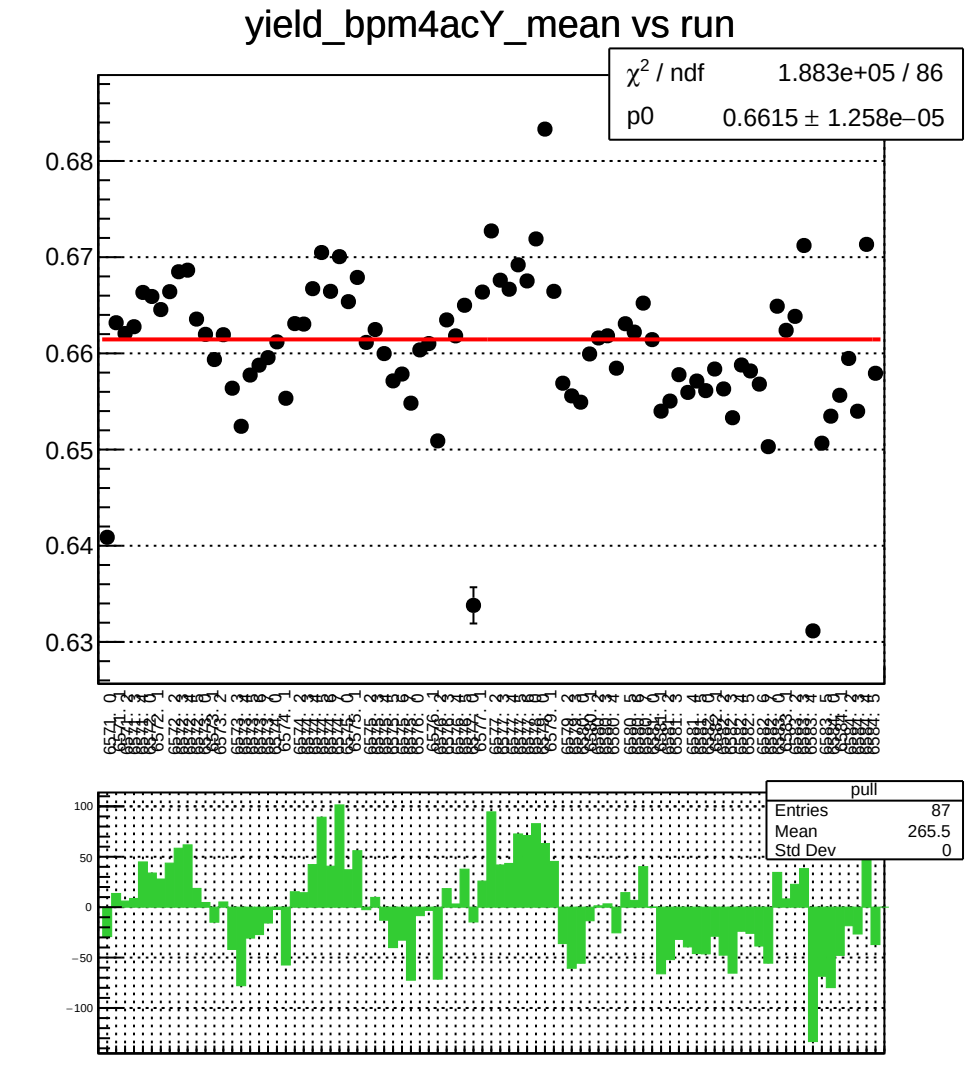

pull1D
Entries 87
Mean 0.3274
Std Dev 3.709

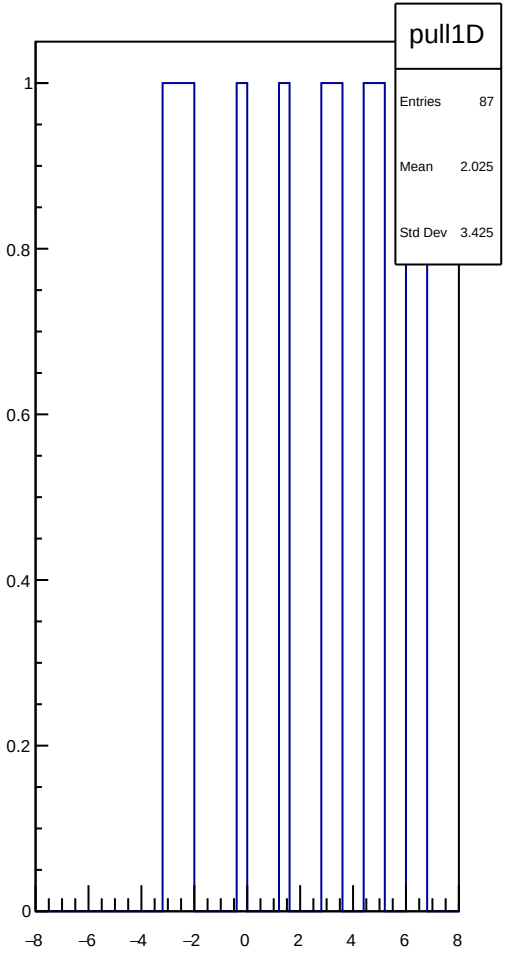

yield_bpm4eY_rms vs run
χ² / ndf 1.048e+05 / 86
p0 0.01108 ± 8.808e–06
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

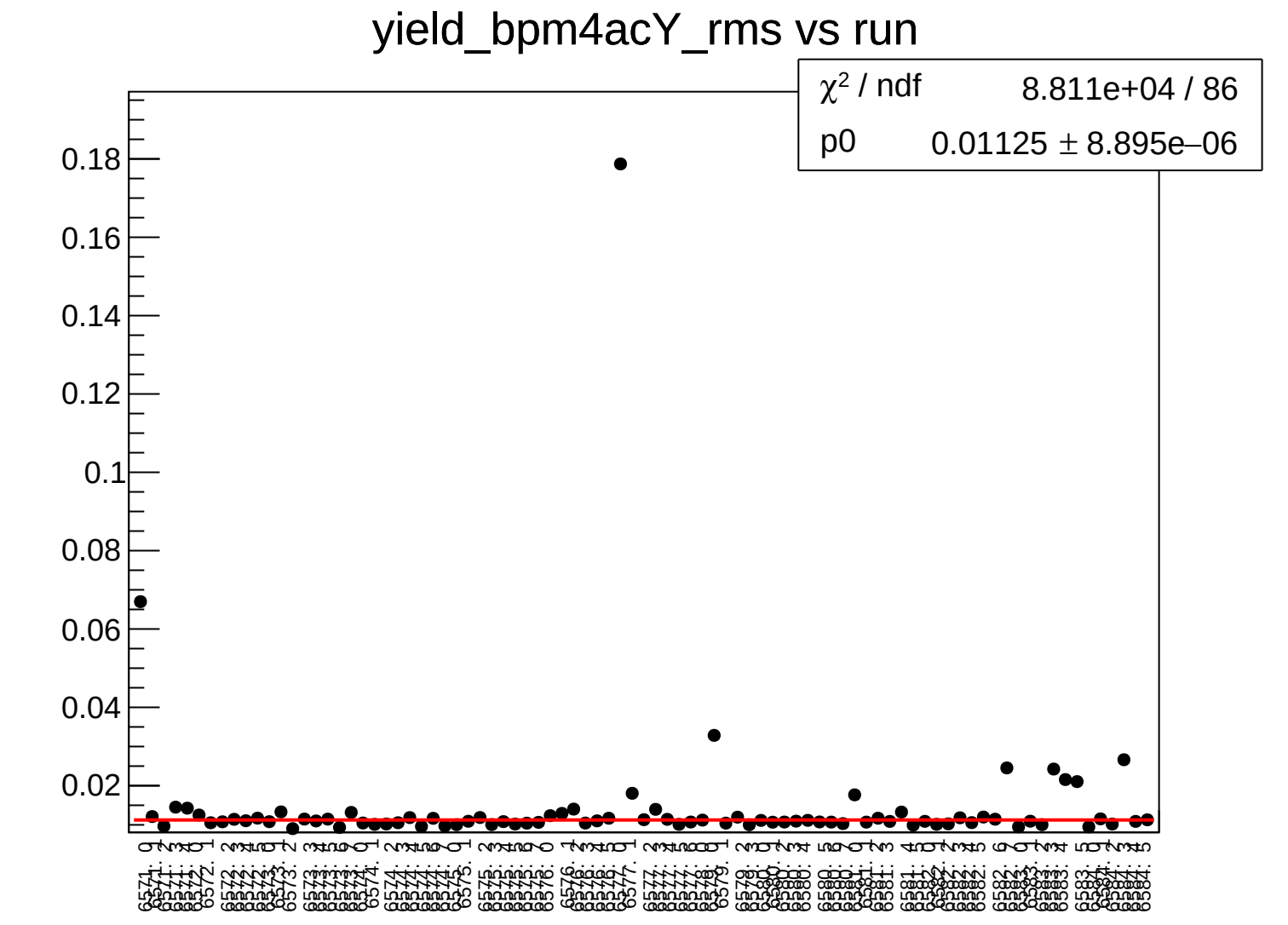

yield_bpm4acX_mean vs run
χ² / ndf 3.205e+05 / 86
p0 −1.204 ± 2.144e−05
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
pull
Entries 87
Mean 34.03
Std Dev 18.75
100
50
0
−50
−100

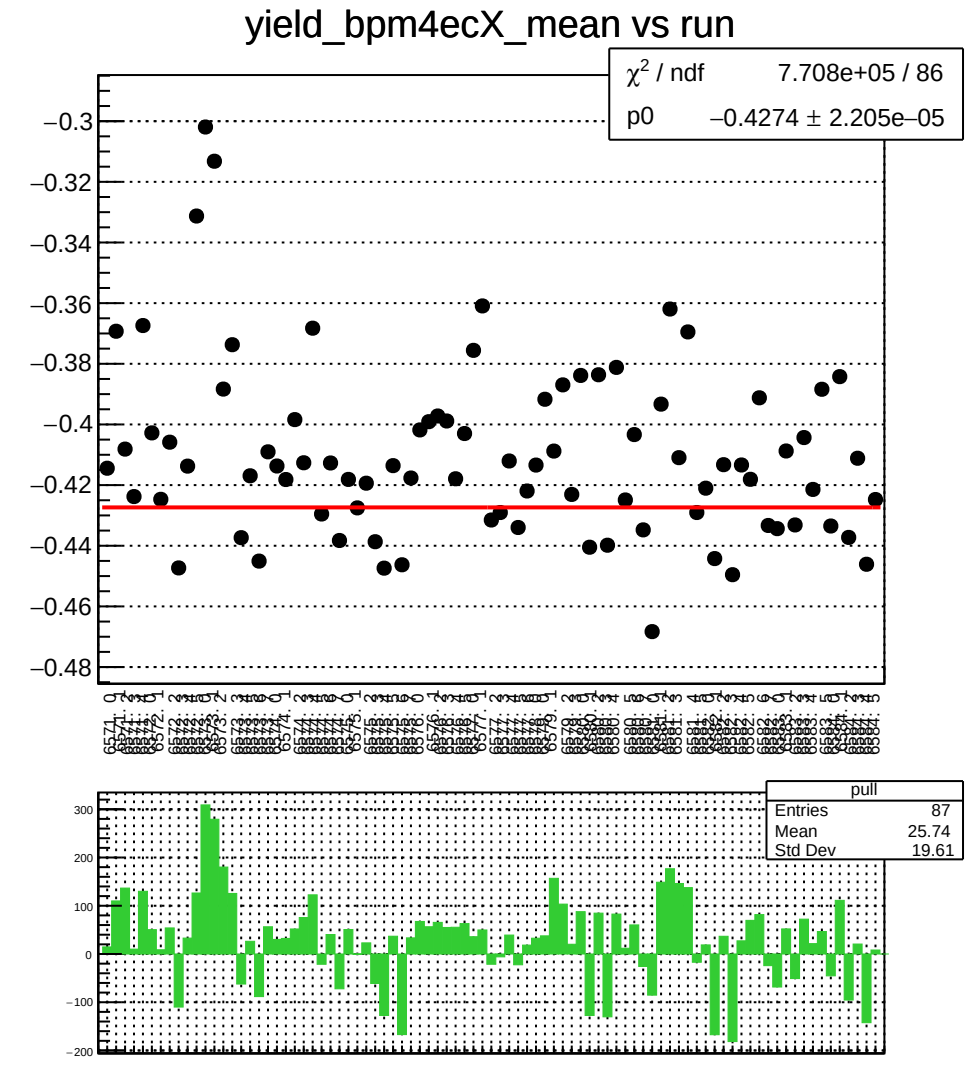

pull1D
Entries 87
Mean −2.637
Std Dev 2.545
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

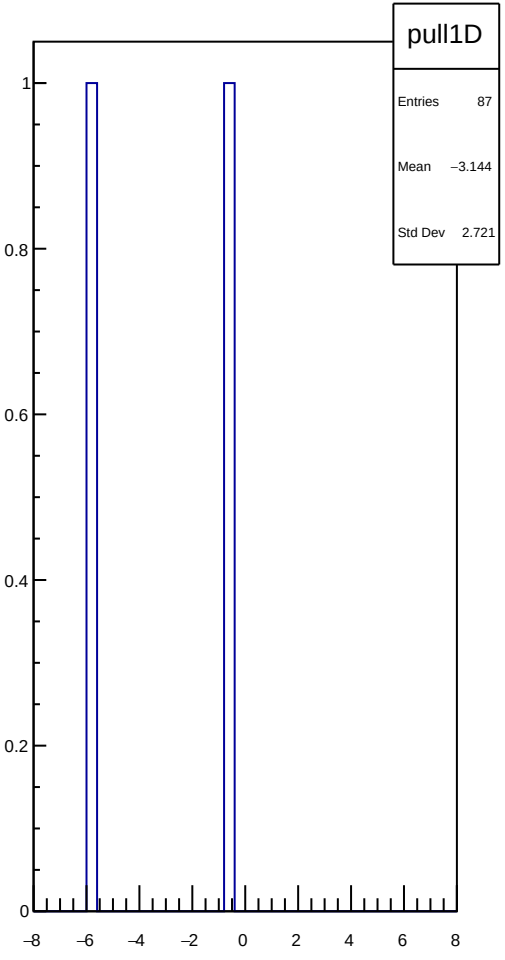

yield_bpm4acX_rms vs run
χ² / ndf 5.485e+05 / 86
p0 0.01617 ± 1.516e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

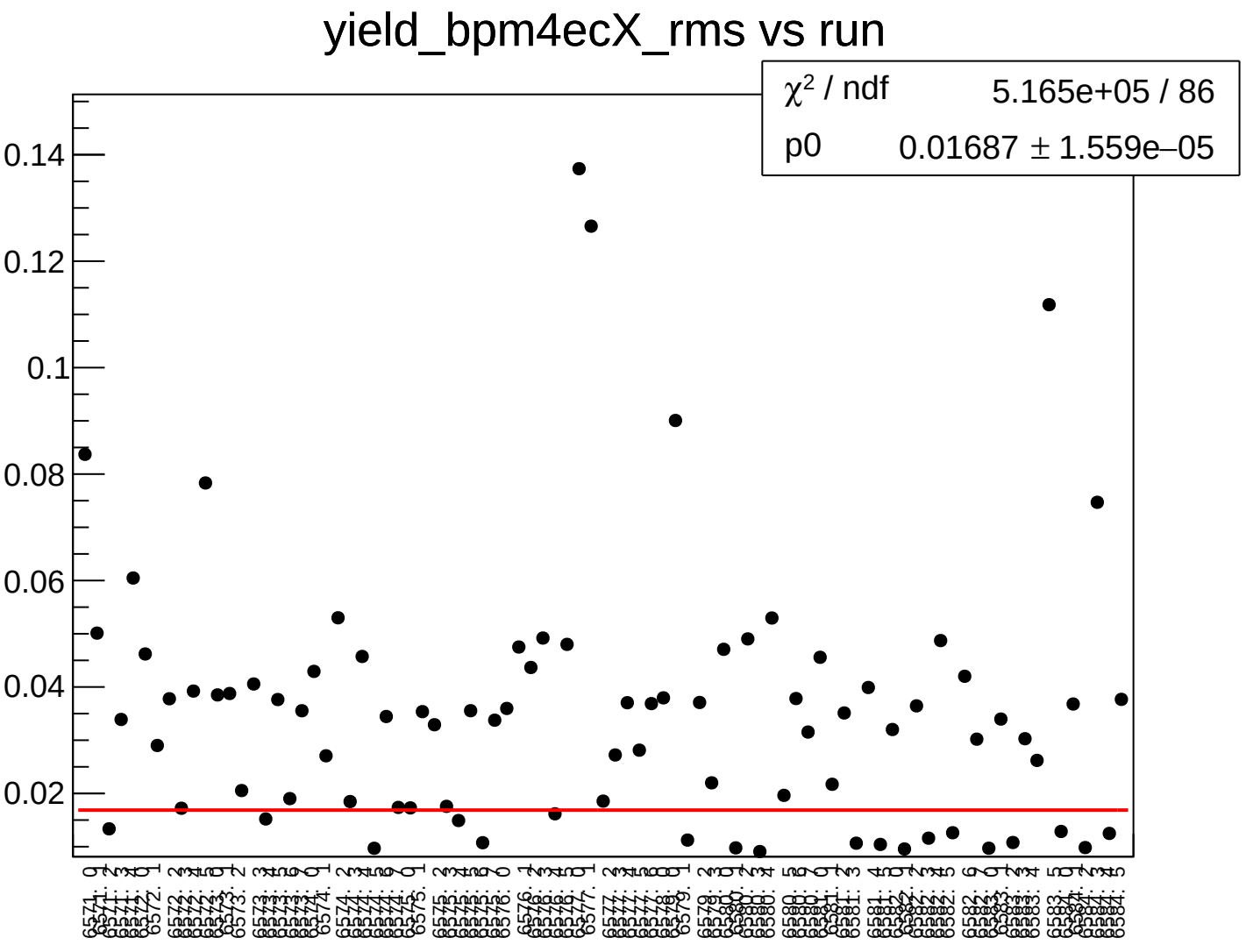

yield_bpm4acY_mean vs run
χ² / ndf 1.883e+05 / 86
p0 0.6615 ± 1.258e−05
0.68
0.67
0.66
0.65
0.64
0.63
pull
Entries 87
Mean 265.5
Std Dev 0
100
50
0
−50
−100

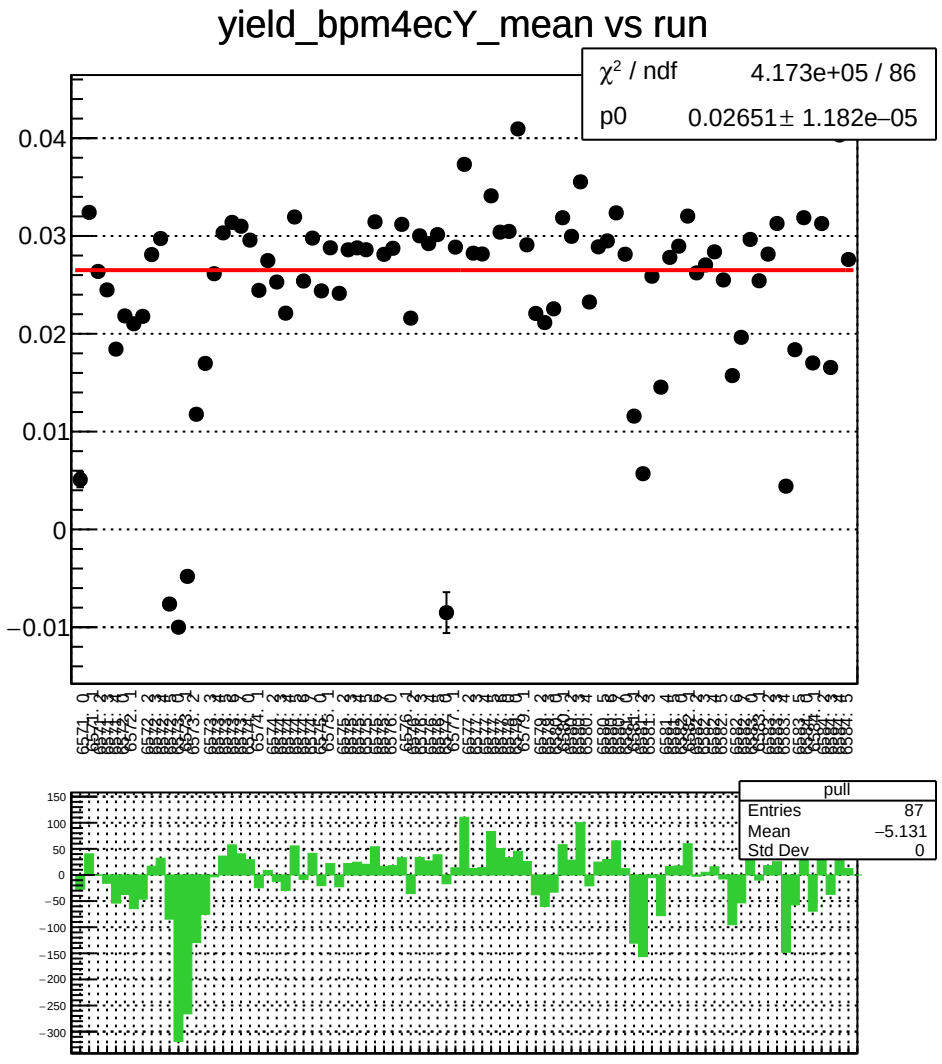

pull1D
Entries 87
Mean 2.025
Std Dev 3.425
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

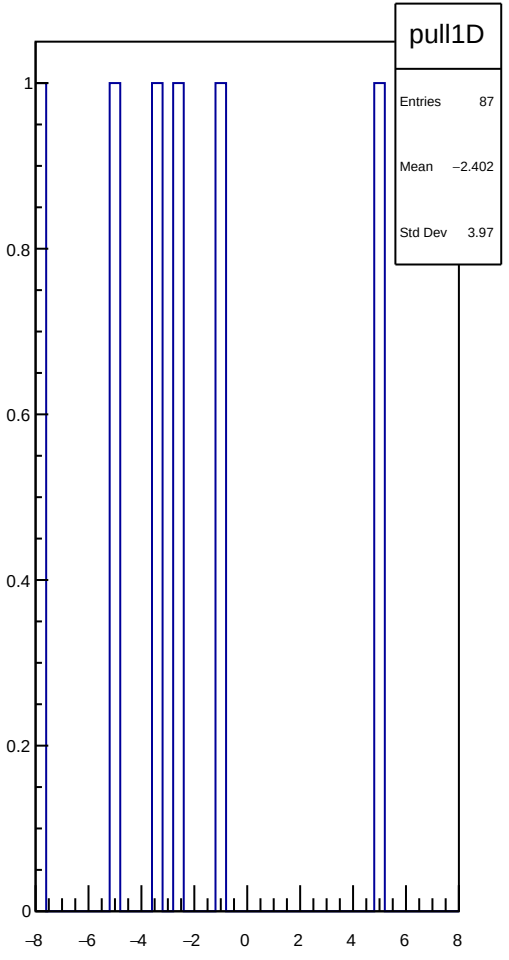

yield_bpm4acY_rms vs run
χ² / ndf 8.811e+04 / 86
p0 0.01125 ± 8.895e–06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

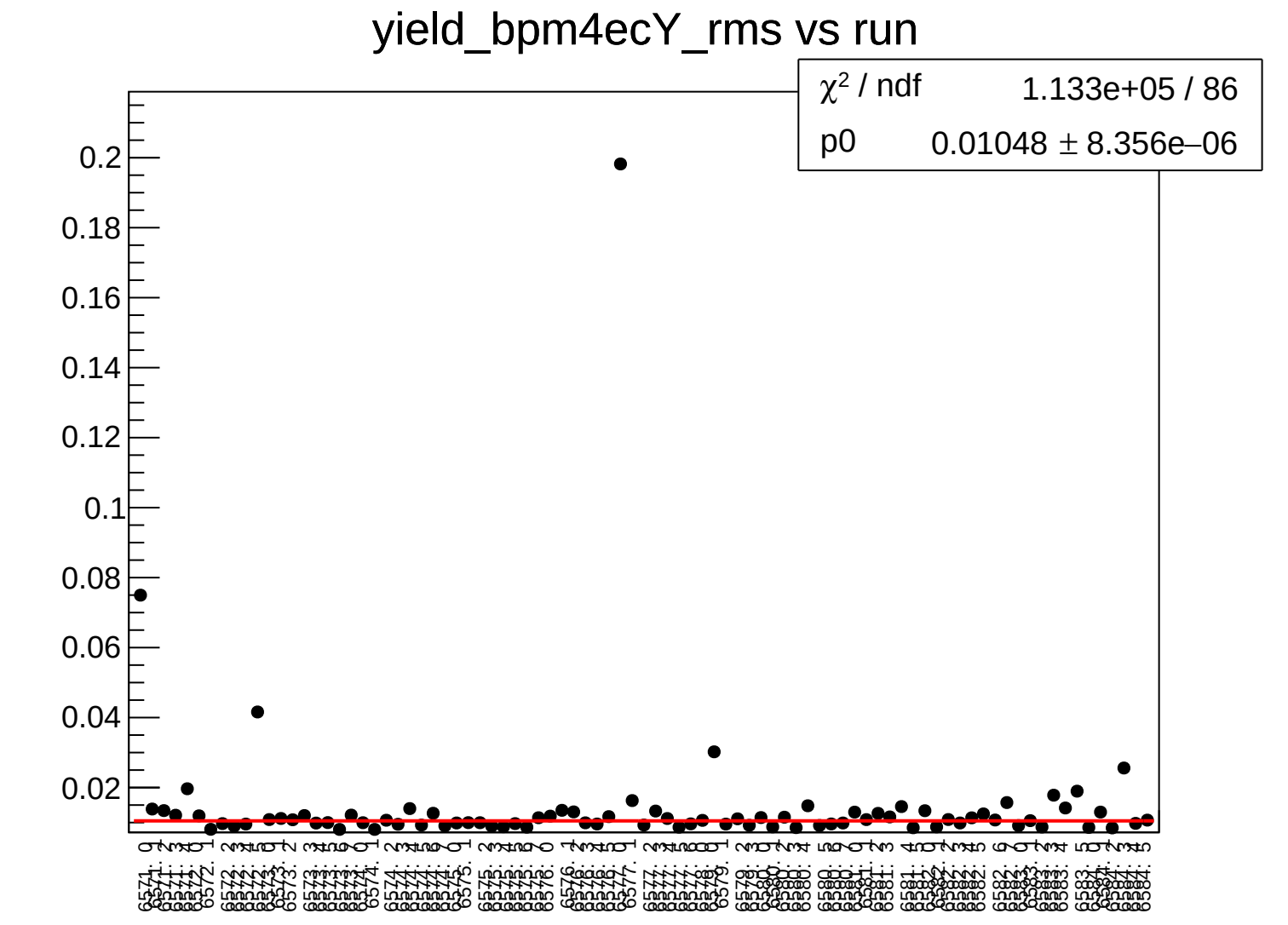

yield_bpm4ecX_mean vs run
χ² / ndf 7.708e+05 / 86
p0 −0.4274 ± 2.205e−05
pull
Entries 87
Mean 25.74
Std Dev 19.61

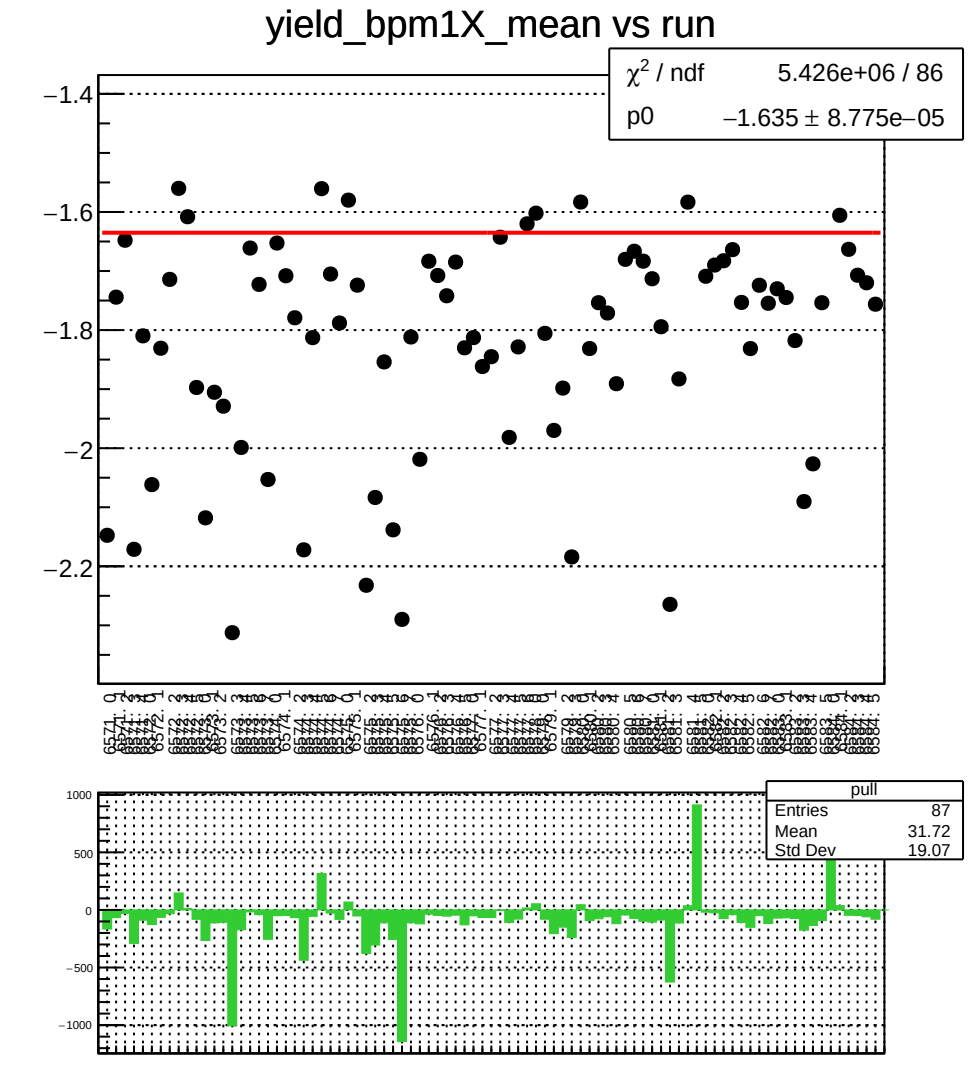

pull1D
Entries 87
Mean −3.144
Std Dev 2.721

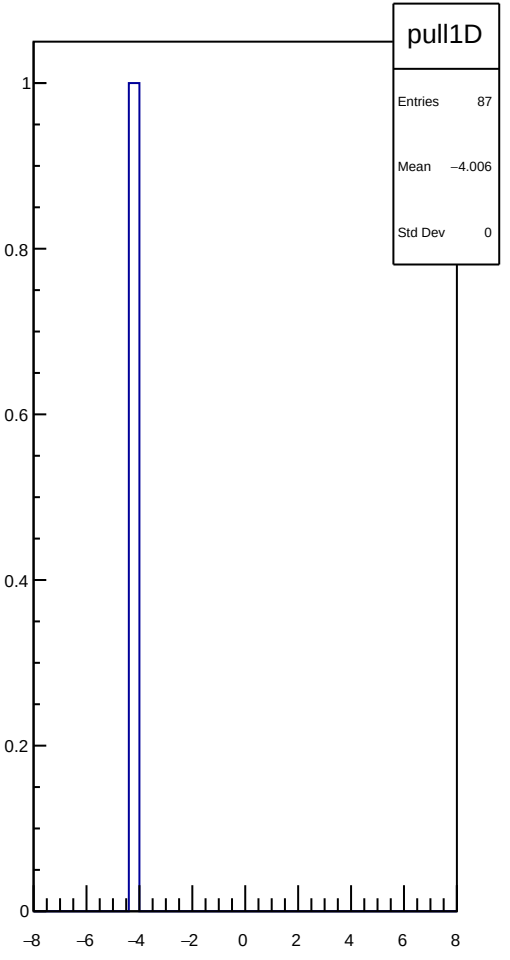

yield_bpm4ecX_rms vs run
χ² / ndf 5.165e+05 / 86
p0 0.01687 ± 1.559e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

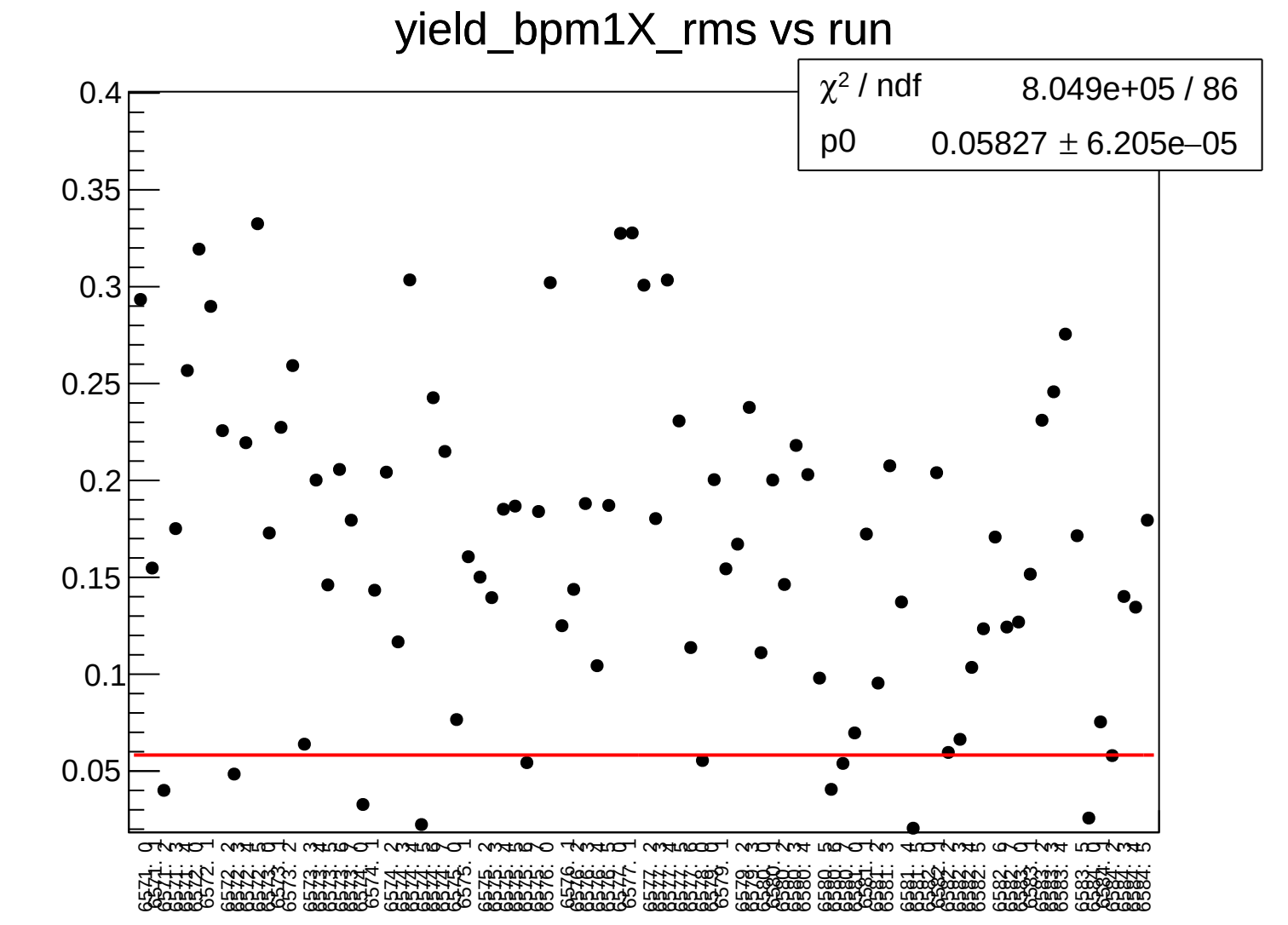

yield_bpm4ecY_mean vs run
χ² / ndf 4.173e+05 / 86
p0 0.02651± 1.182e−05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 87
Mean −5.131
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
−300

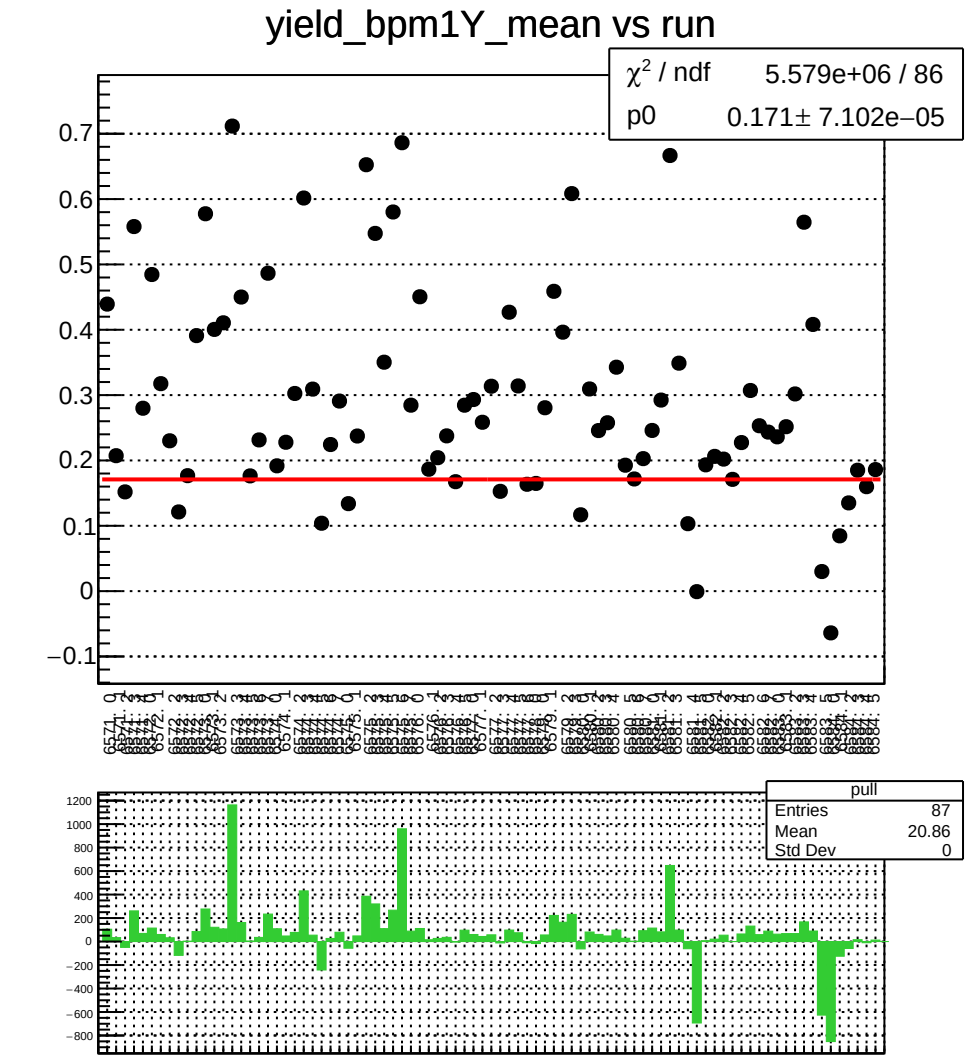

pull1D
Entries 87
Mean −2.402
Std Dev 3.97
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

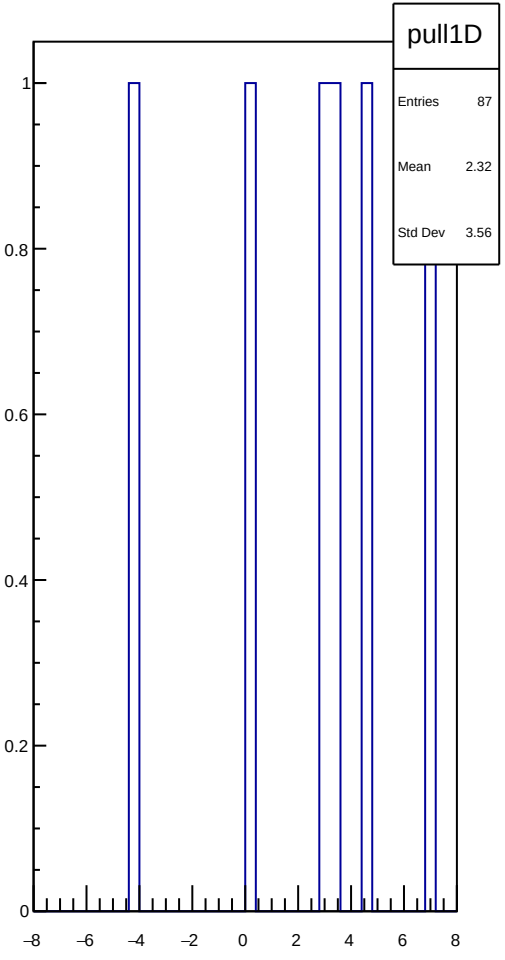

yield_bpm4ecY_rms vs run
χ² / ndf 1.133e+05 / 86
p0 0.01048 ± 8.356e–06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

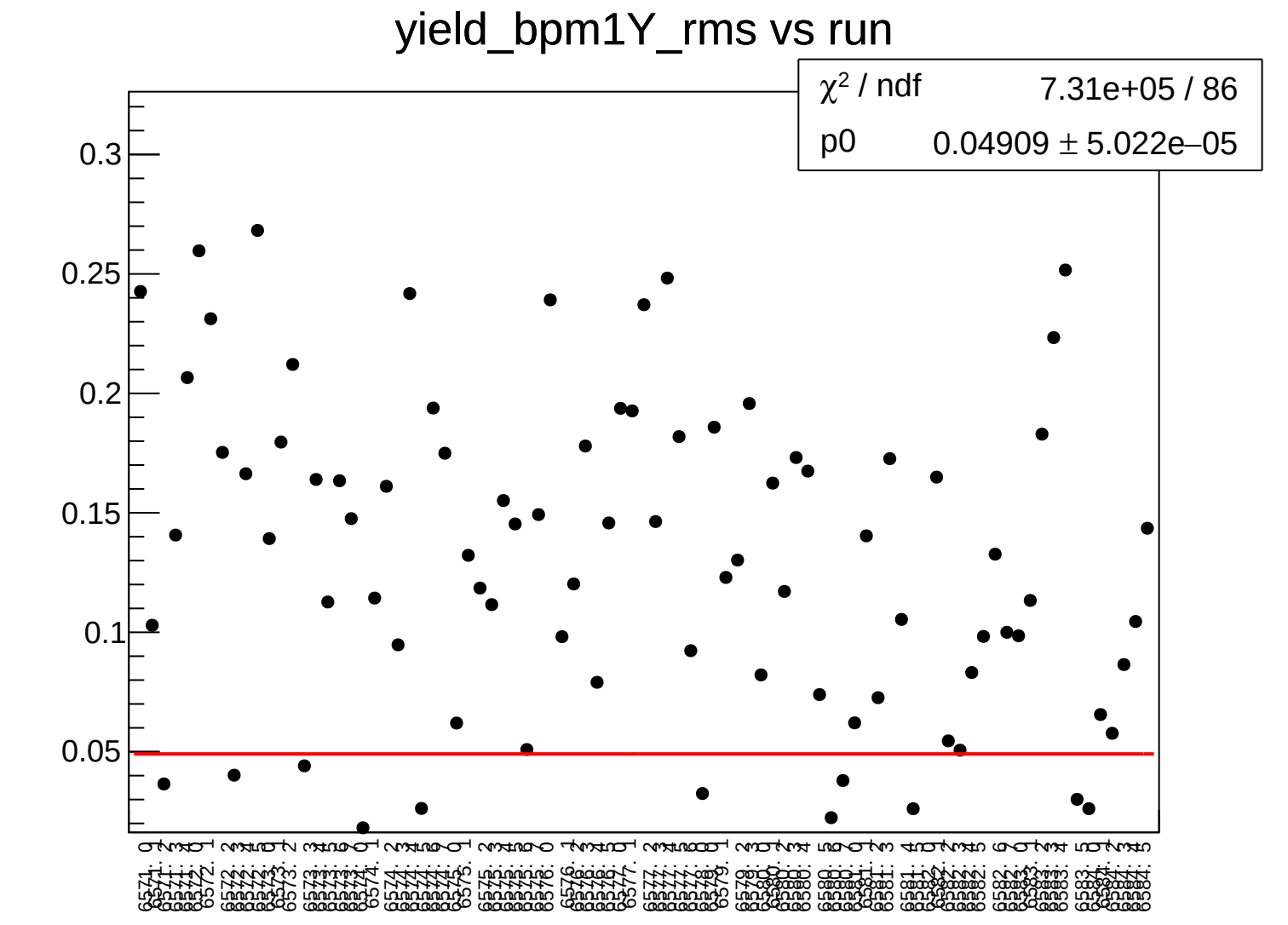

yield_bpm1X_mean vs run
χ² / ndf 5.426e+06 / 86
p0 −1.635 ± 8.775e−05
−1.4
−1.6
−1.8
−2
−2.2
pull
Entries 87
Mean 31.72
Std Dev 19.07
1000
500
0
−500
−1000

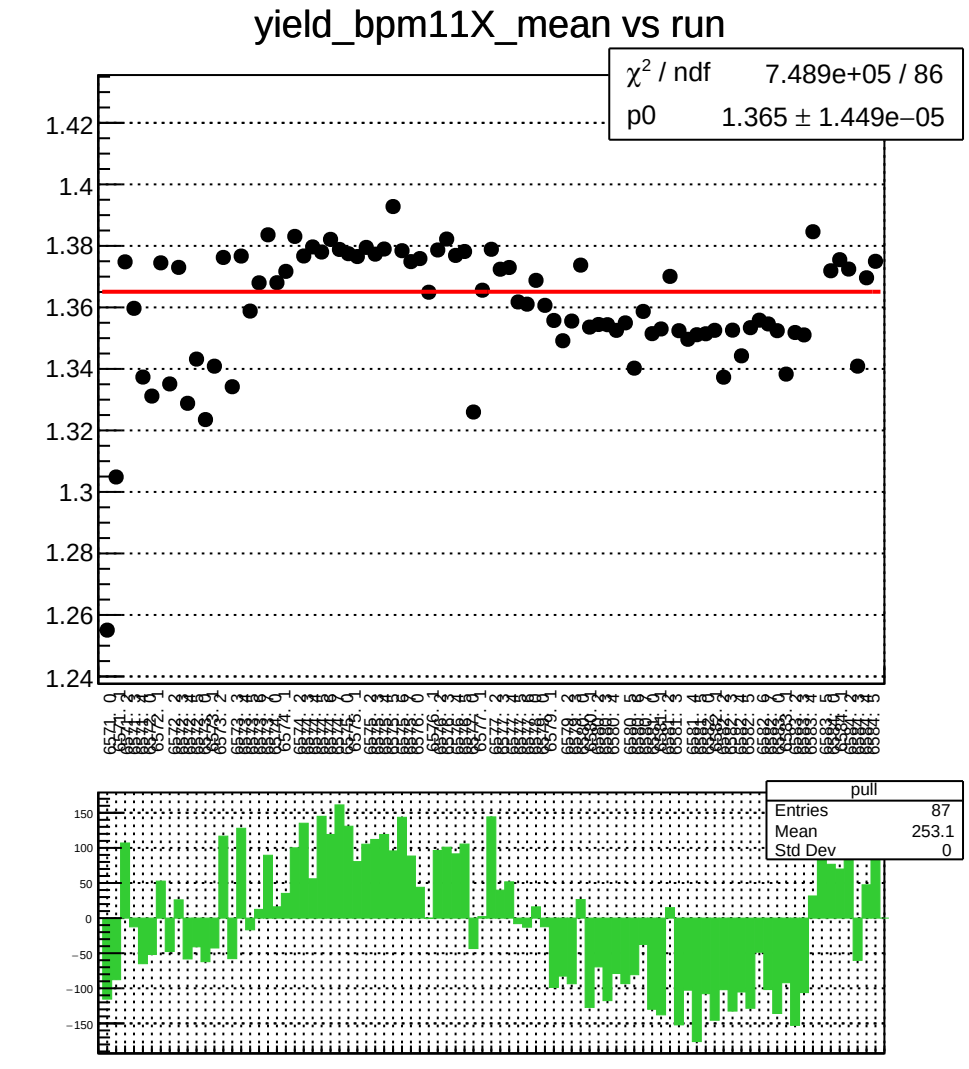

pull1D
Entries 87
Mean −4.006
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

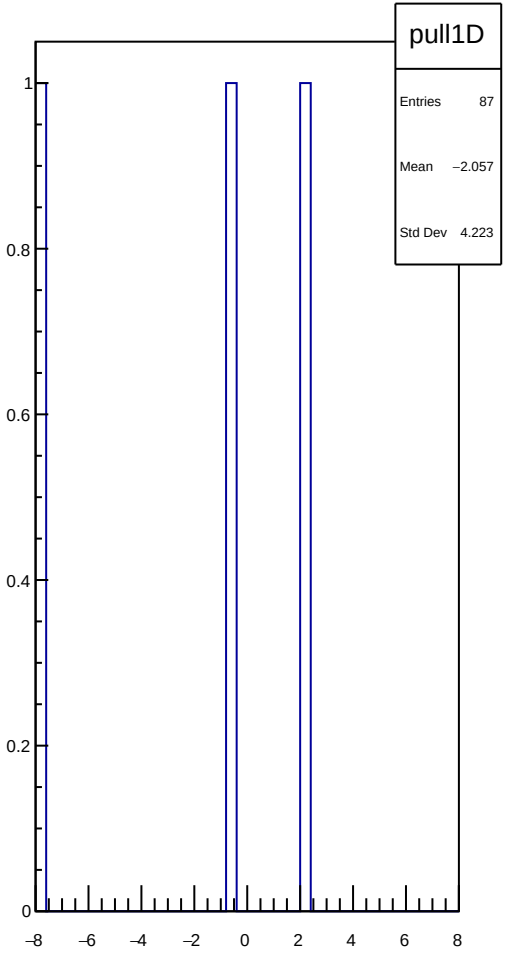

yield_bpm1X_rms vs run
χ² / ndf 8.049e+05 / 86
p0 0.05827 ± 6.205e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

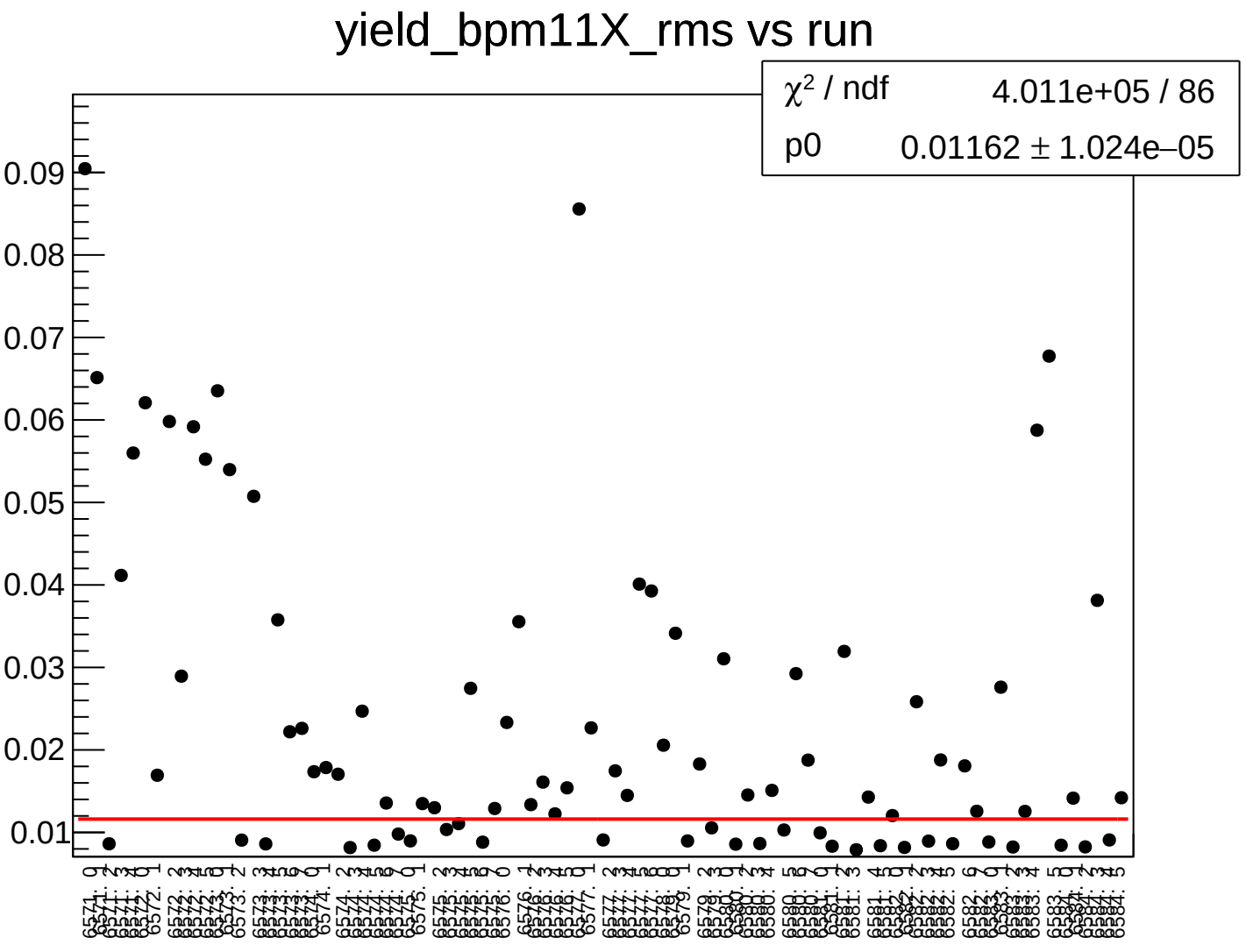

yield_bpm1Y_mean vs run
χ² / ndf 5.579e+06 / 86
p0 0.171± 7.102e−05
pull
Entries 87
Mean 20.86
Std Dev 0

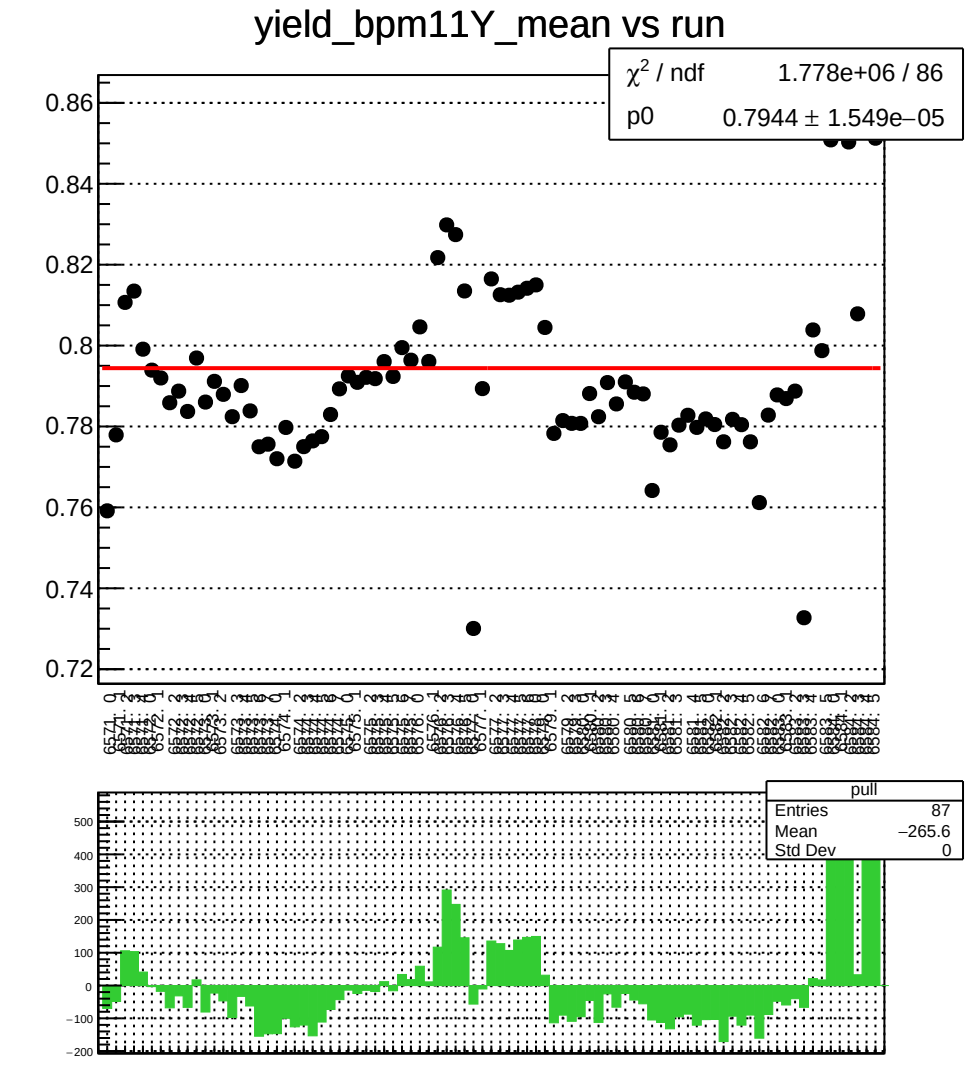

pull1D
Entries 87
Mean 2.32
Std Dev 3.56

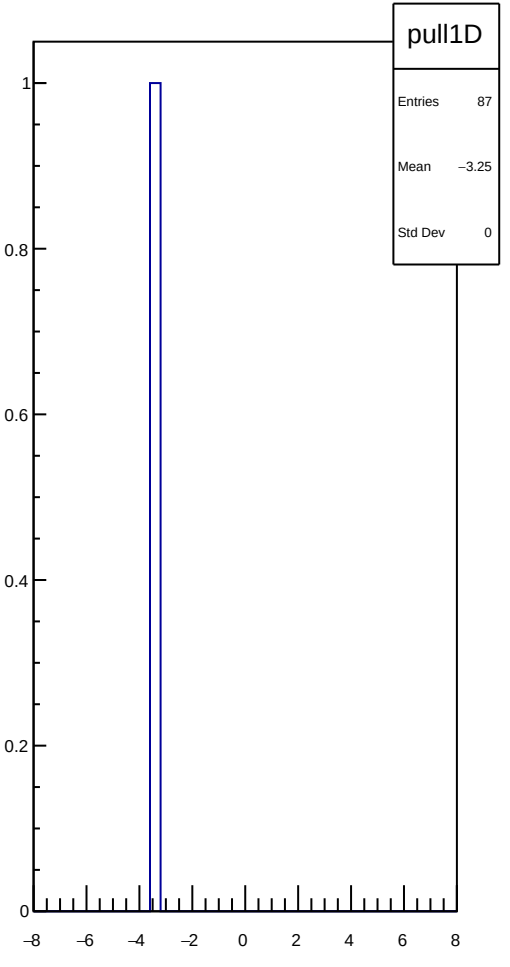

yield_bpm1Y_rms vs run
χ² / ndf 7.31e+05 / 86
p0 0.04909 ± 5.022e−05
0.3
0.25
0.2
0.15
0.1
0.05

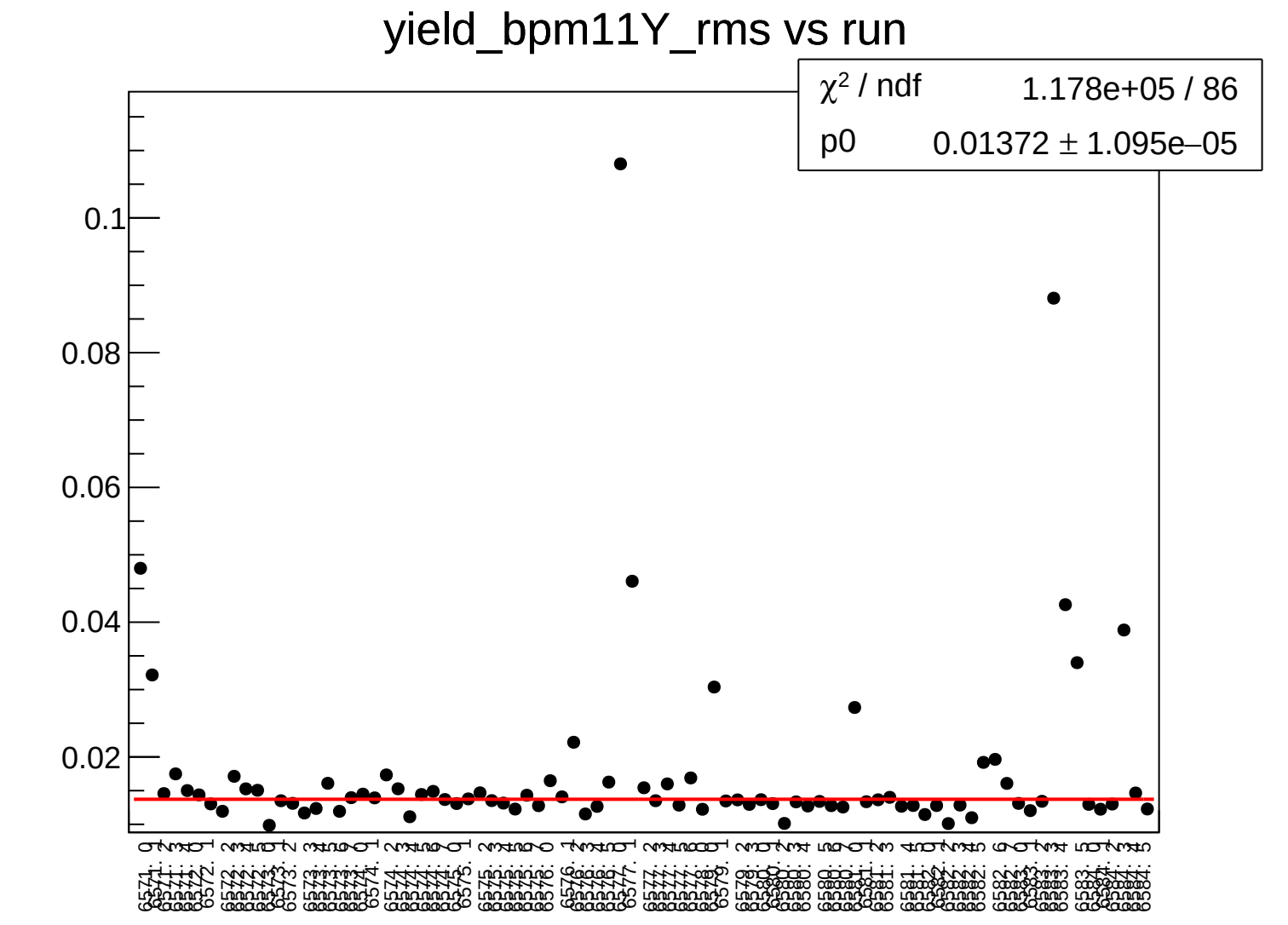

yield_bpm11X_mean vs run
χ² / ndf 7.489e+05 / 86
p0 1.365 ± 1.449e−05
1.42
1.4
1.38
1.36
1.34
1.32
1.3
1.28
1.26
1.24
pull
Entries 87
Mean 253.1
Std Dev 0
150
100
50
0
−50
−100
−150

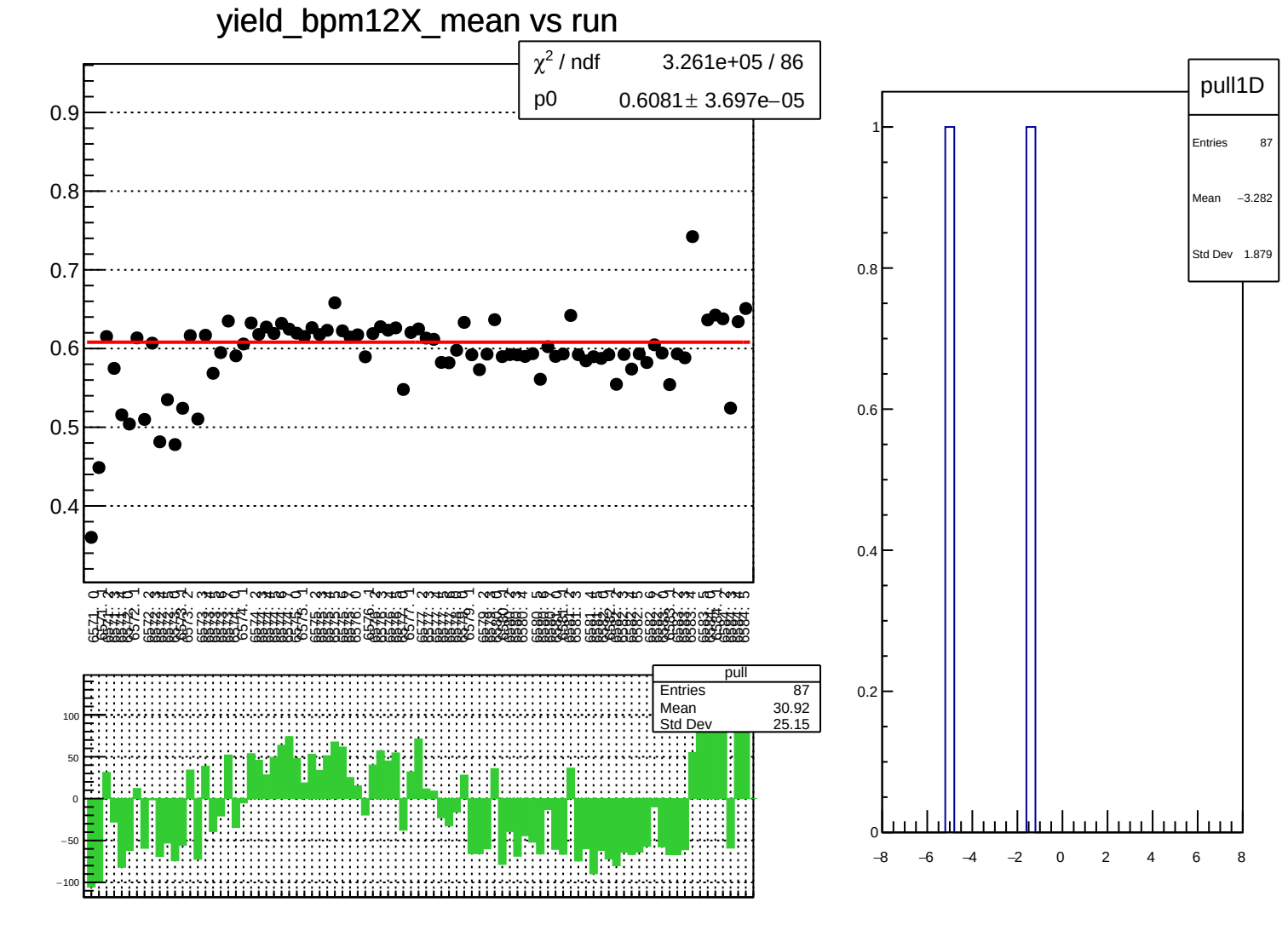

pull1D
Entries 87
Mean −2.057
Std Dev 4.223
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

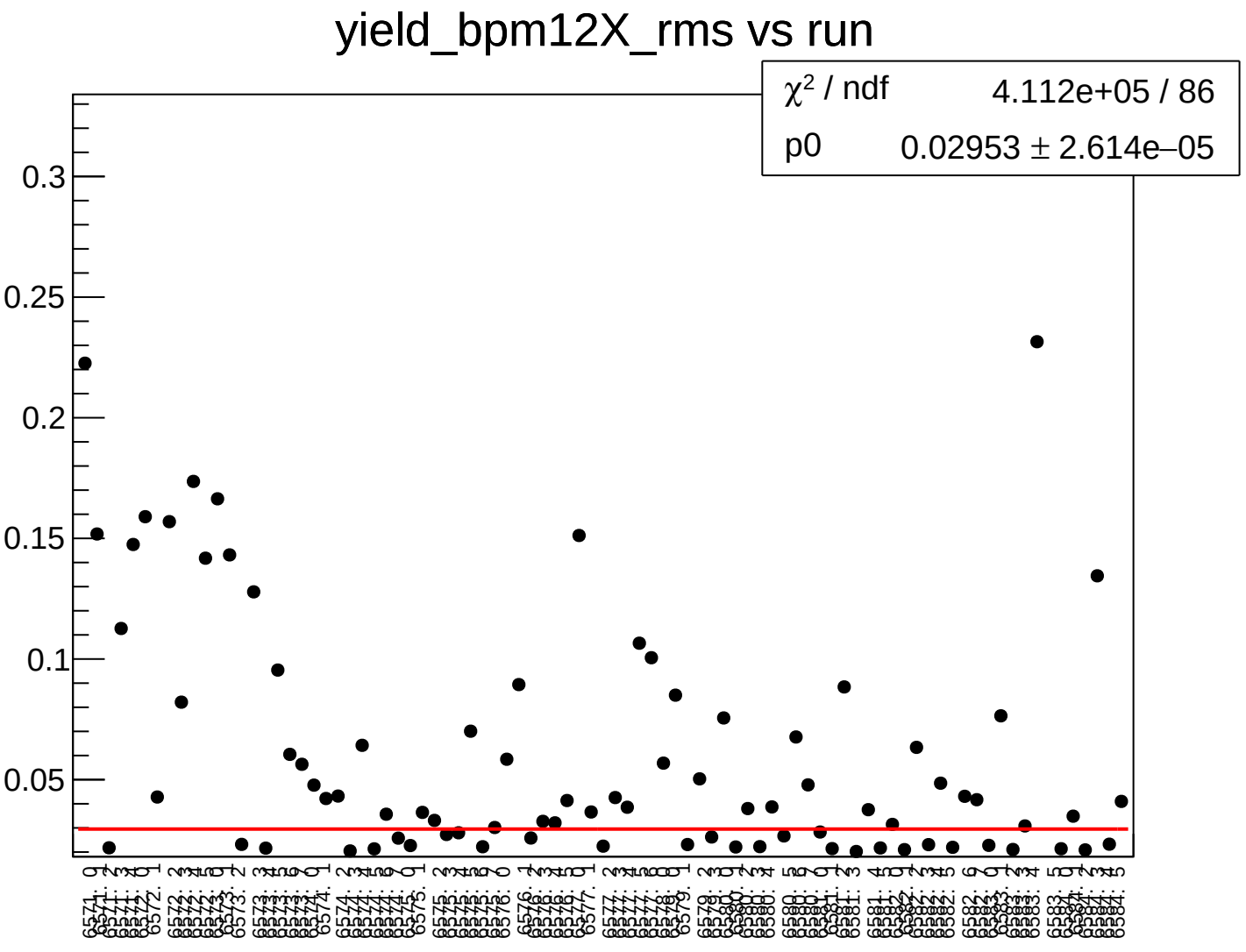

yield_bpm11X_rms vs run
χ² / ndf 4.011e+05 / 86
p0 0.01162 ± 1.024e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

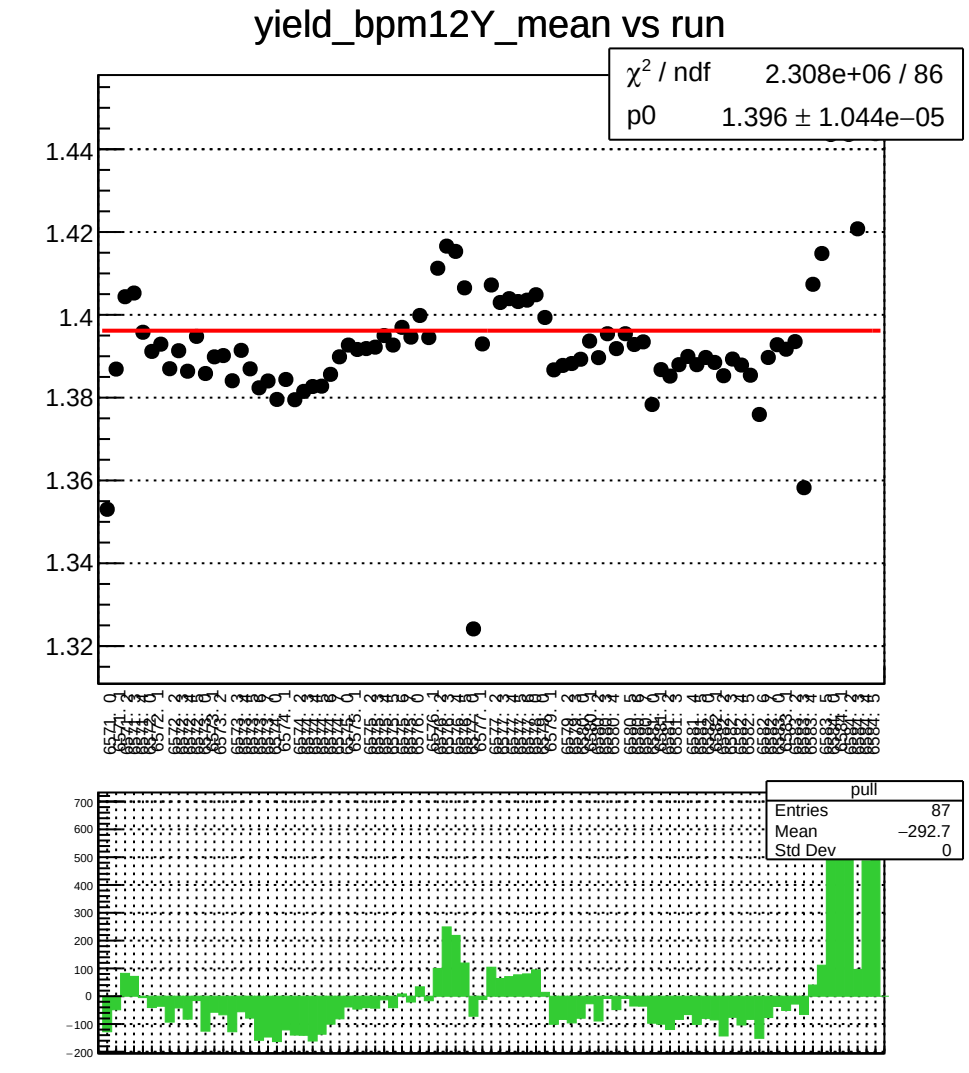

yield_bpm11Y_mean vs run
χ² / ndf 1.778e+06 / 86
p0 0.7944 ± 1.549e−05
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
pull
Entries 87
Mean −265.6
Std Dev 0
500
400
300
200
100
0
−100
−200

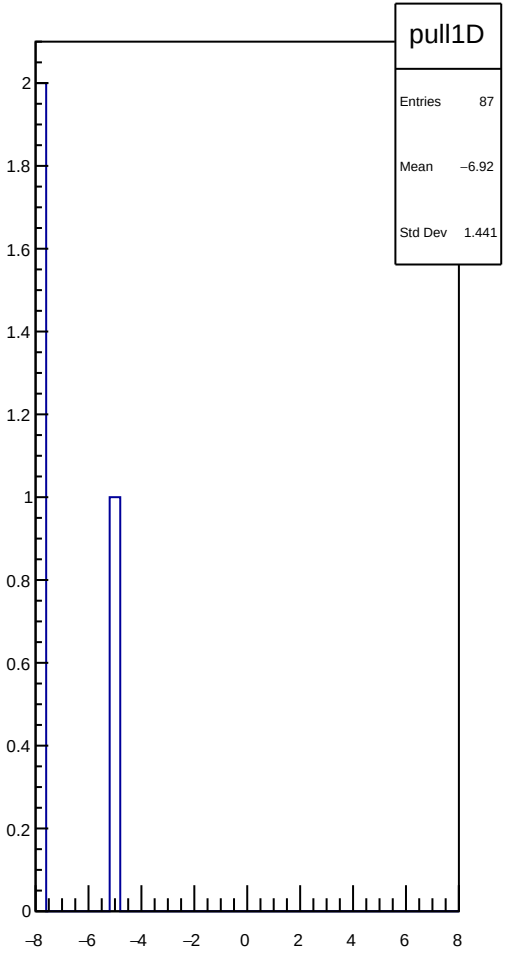

pull1D
Entries 87
Mean −3.25
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

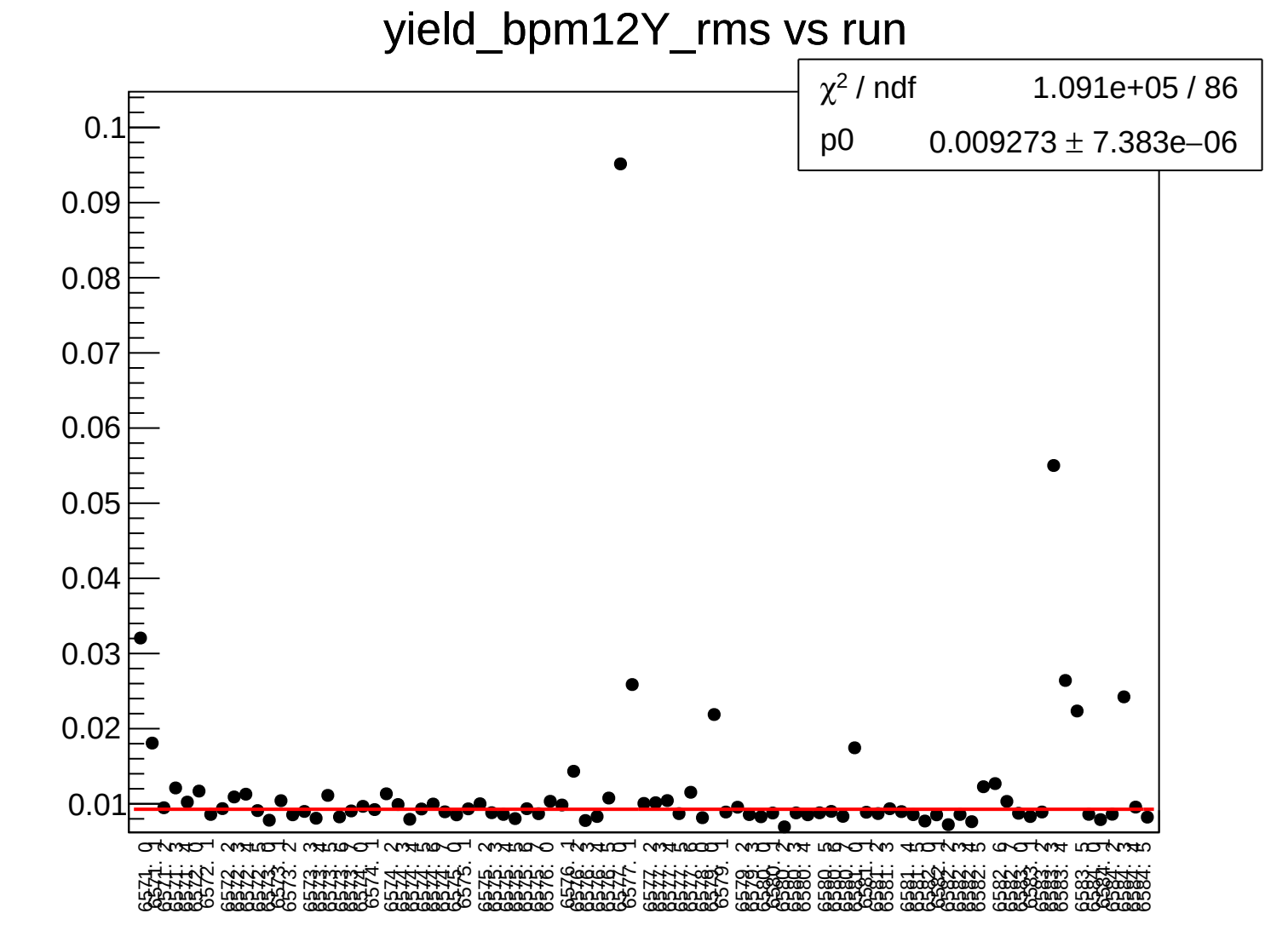

yield_bpm11Y_rms vs run
χ² / ndf 1.178e+05 / 86
p0 0.01372 ± 1.095e–05
0.1
0.08
0.06
0.04
0.02

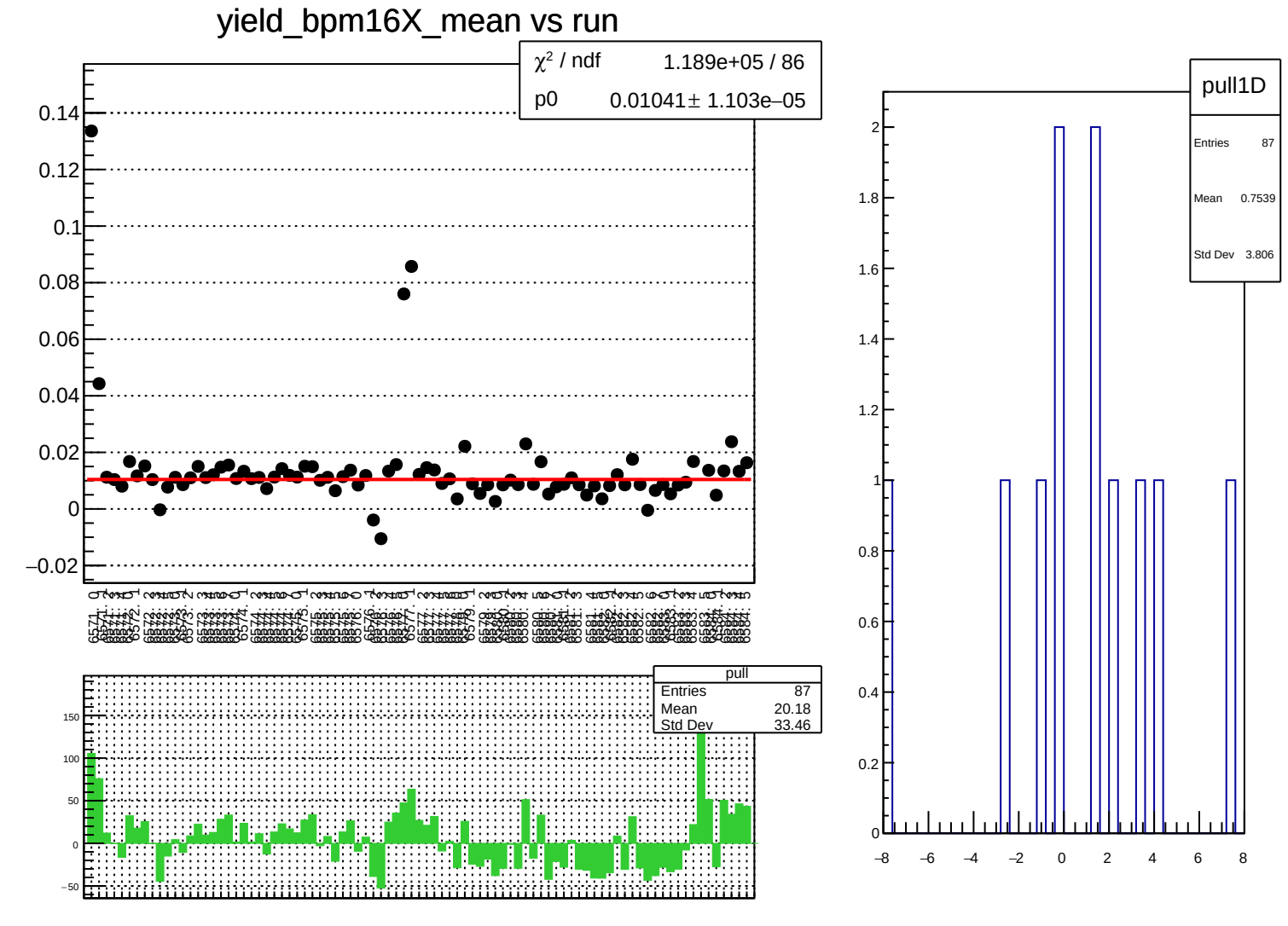

yield_bpm12X_mean vs run
χ² / ndf 3.261e+05 / 86
p0 0.6081 ± 3.697e−05
pull
Entries 87
Mean 30.92
Std Dev 25.15
pull1D
Entries 87
Mean −3.282
Std Dev 1.879

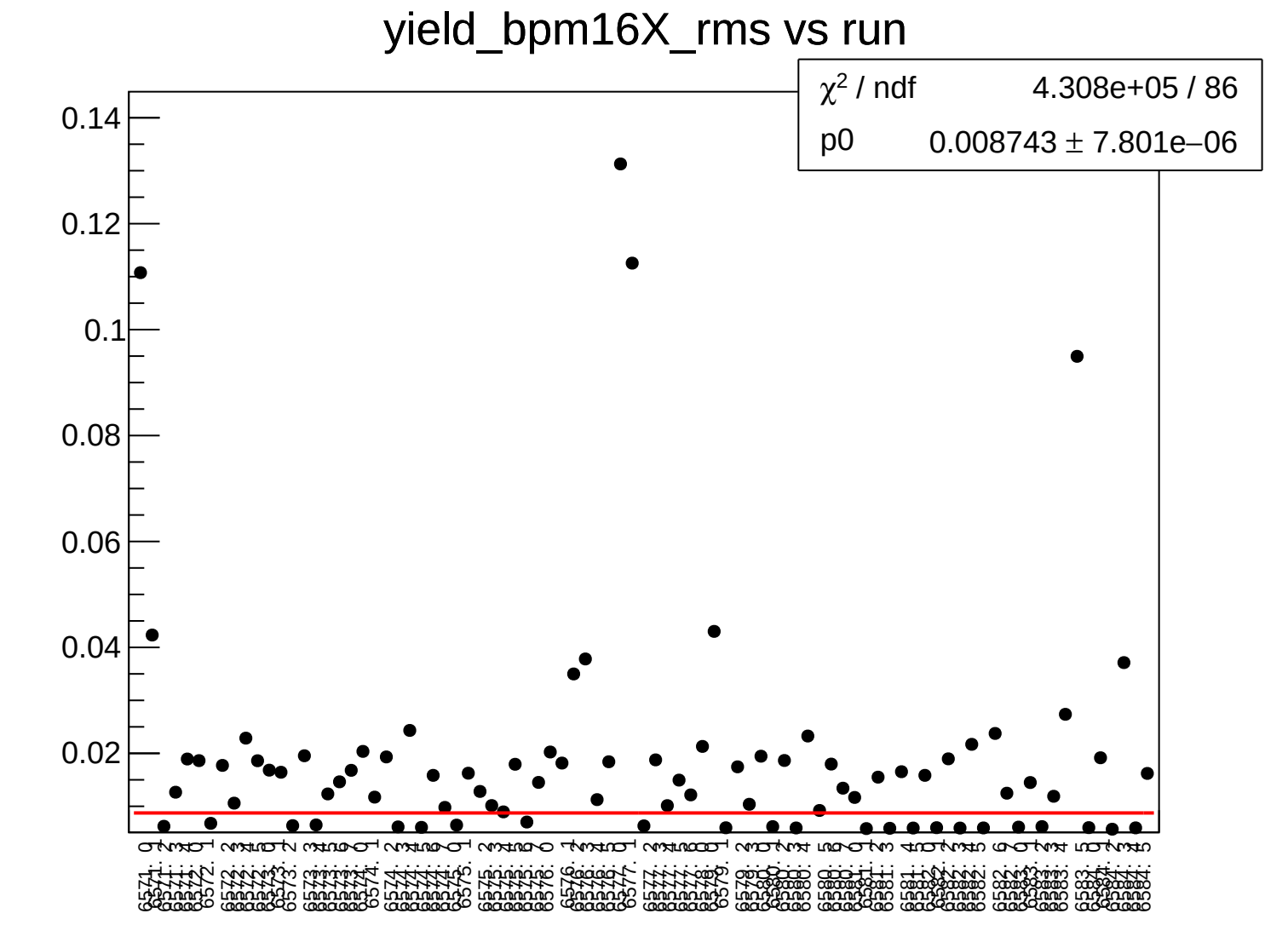

yield_bpm12X_rms vs run
χ² / ndf 4.112e+05 / 86
p0 0.02953 ± 2.614e−05
0.3
0.25
0.2
0.15
0.1
0.05

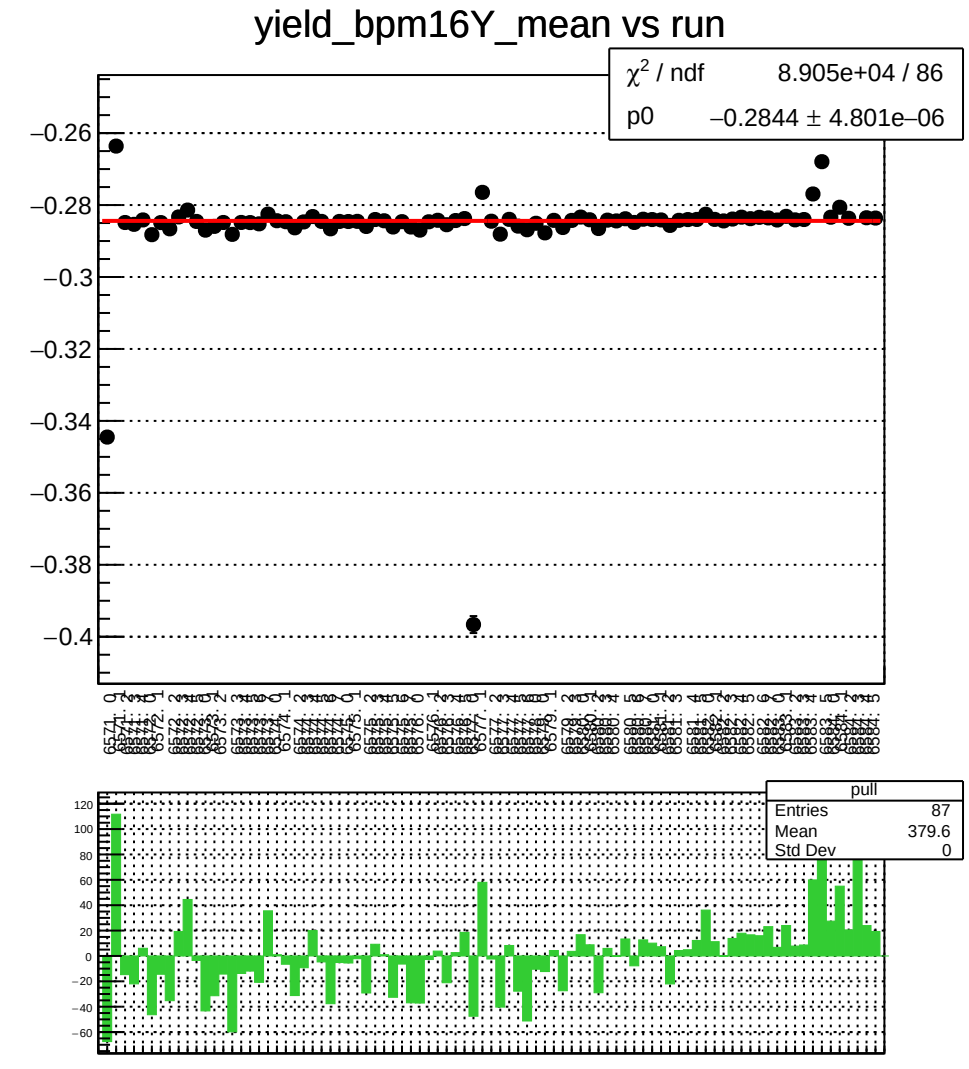

yield_bpm12Y_mean vs run
χ² / ndf 2.308e+06 / 86
p0 1.396 ± 1.044e−05
1.44
1.42
1.4
1.38
1.36
1.34
1.32
pull
Entries 87
Mean −292.7
Std Dev 0
700
600
500
400
300
200
100
0
−100
−200

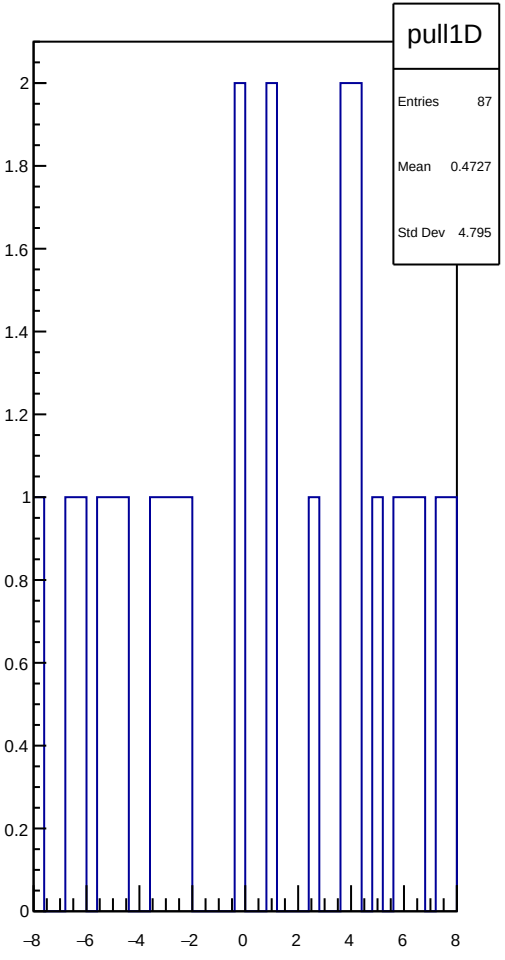

pull1D
Entries 87
Mean −6.92
Std Dev 1.441
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

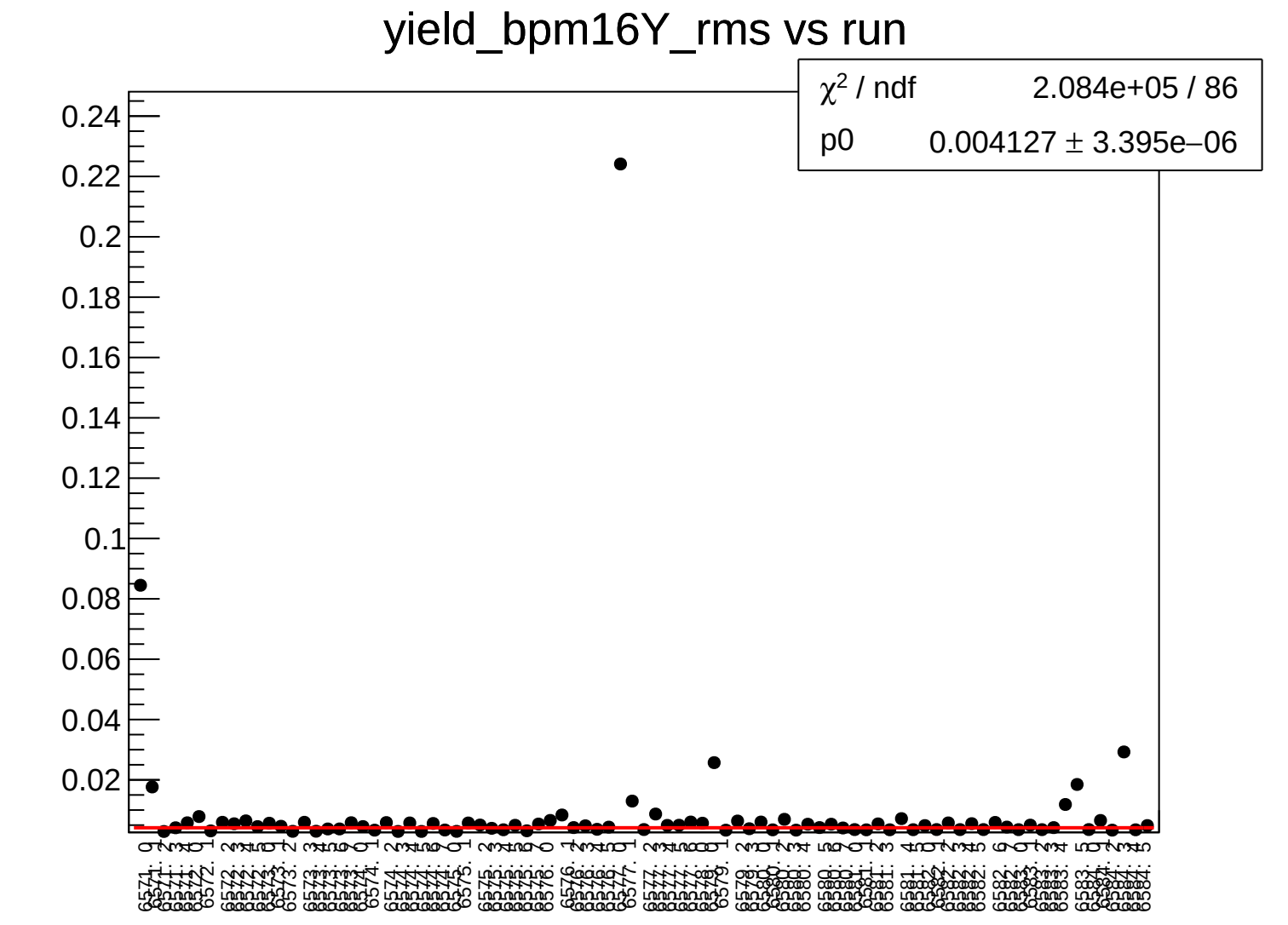

yield_bpm12Y_rms vs run
χ² / ndf 1.091e+05 / 86
p0 0.009273 ± 7.383e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

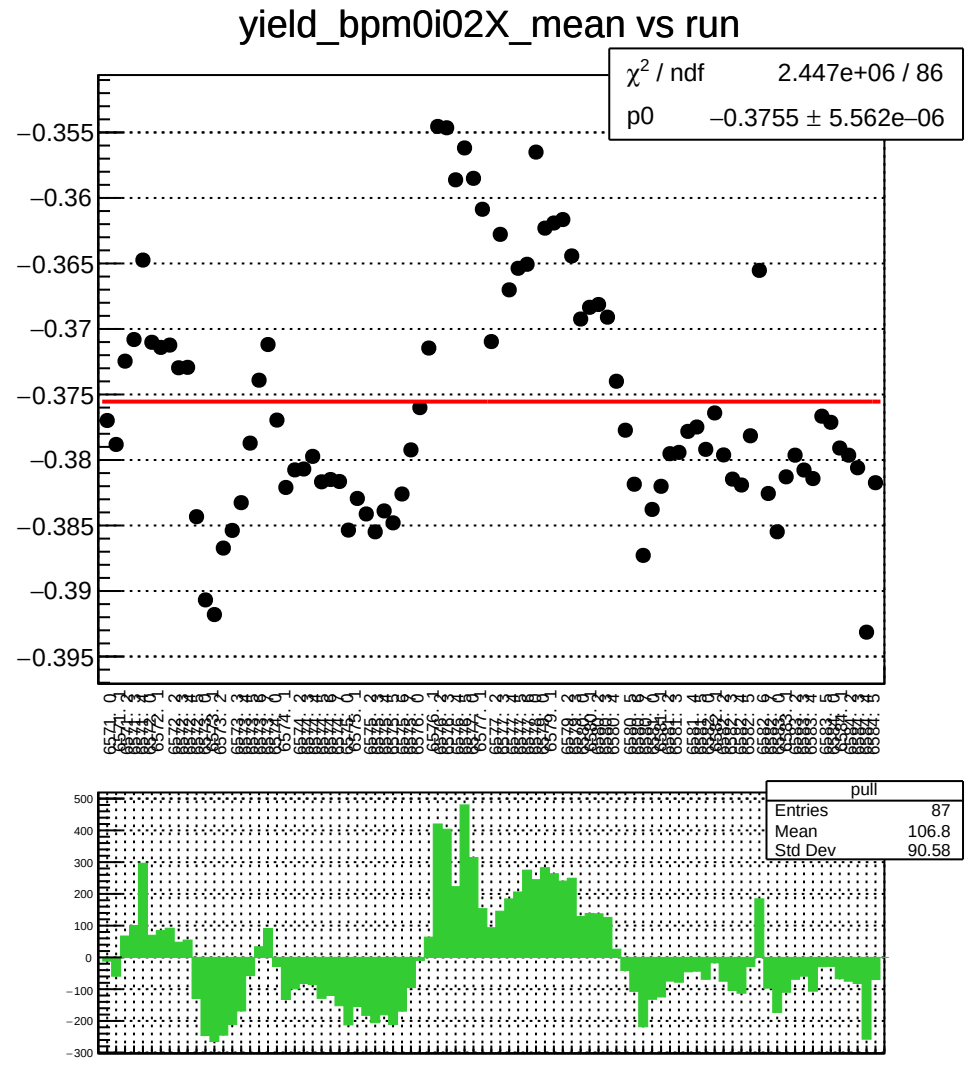

yield_bpm16X_mean vs run
χ² / ndf 1.189e+05 / 86
p0 0.01041± 1.103e−05
pull
Entries 87
Mean 20.18
Std Dev 33.46
pull1D
Entries 87
Mean 0.7539
Std Dev 3.806

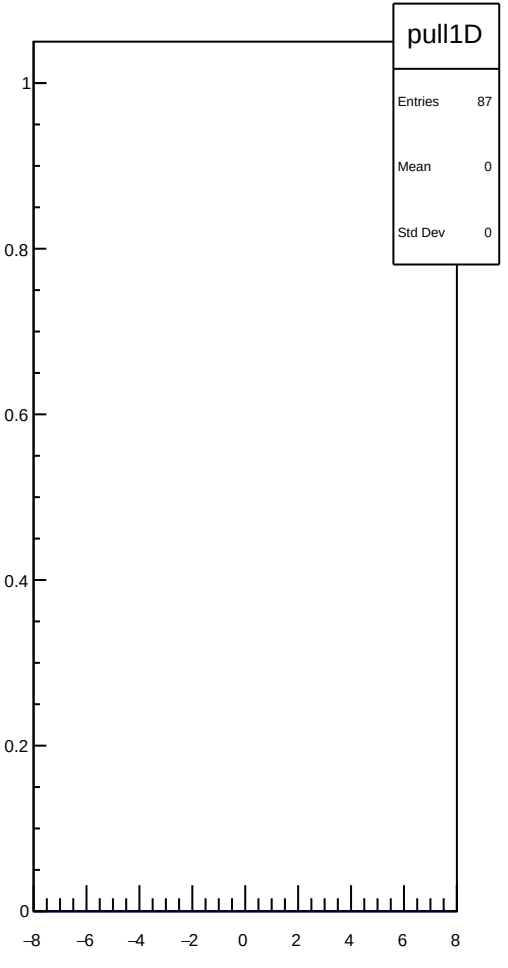

yield_bpm16X_rms vs run
χ² / ndf 4.308e+05 / 86
p0 0.008743 ± 7.801e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

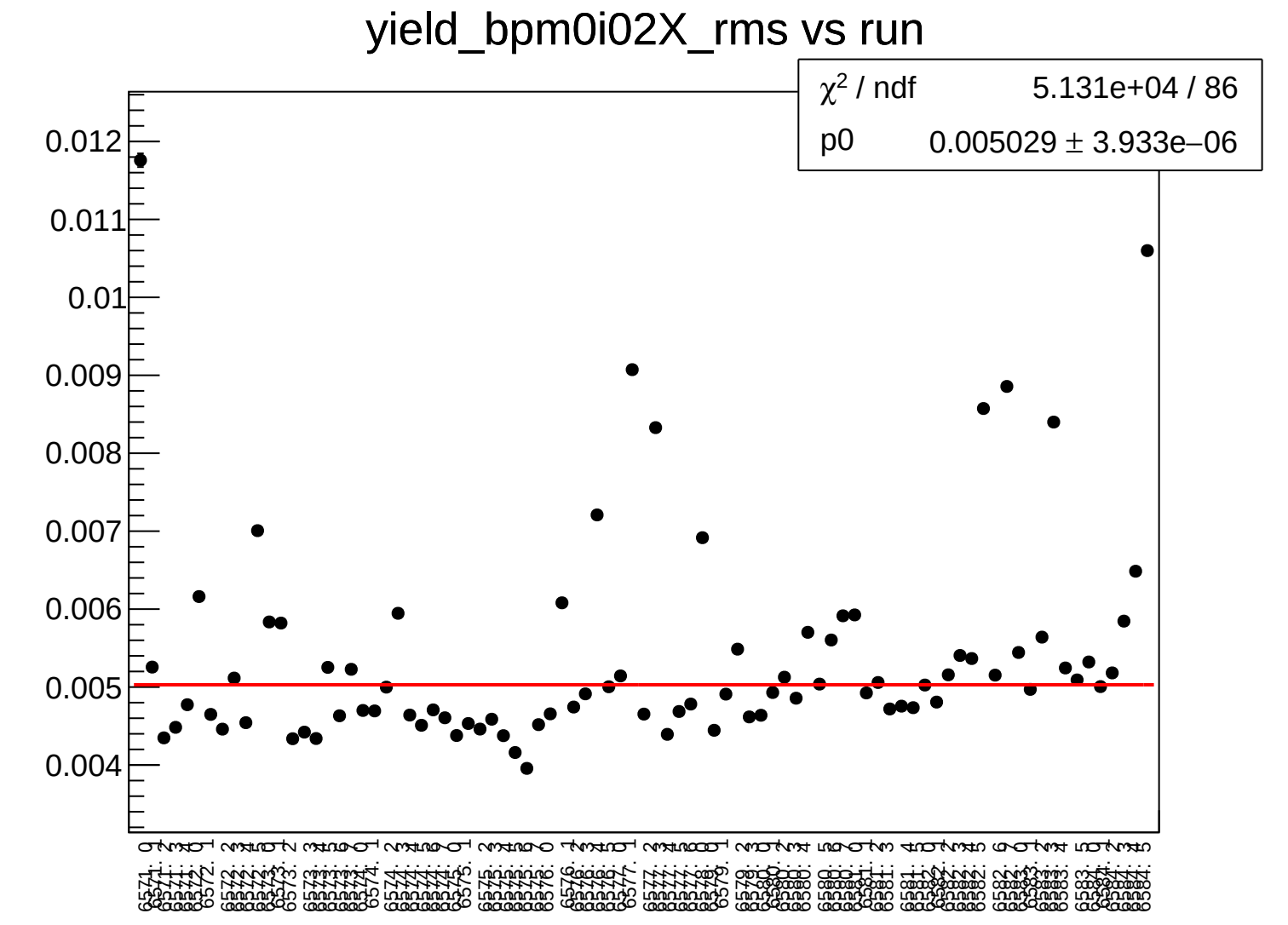

yield_bpm16Y_mean vs run
χ² / ndf 8.905e+04 / 86
p0 −0.2844 ± 4.801e−06
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
pull
Entries 87
Mean 379.6
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

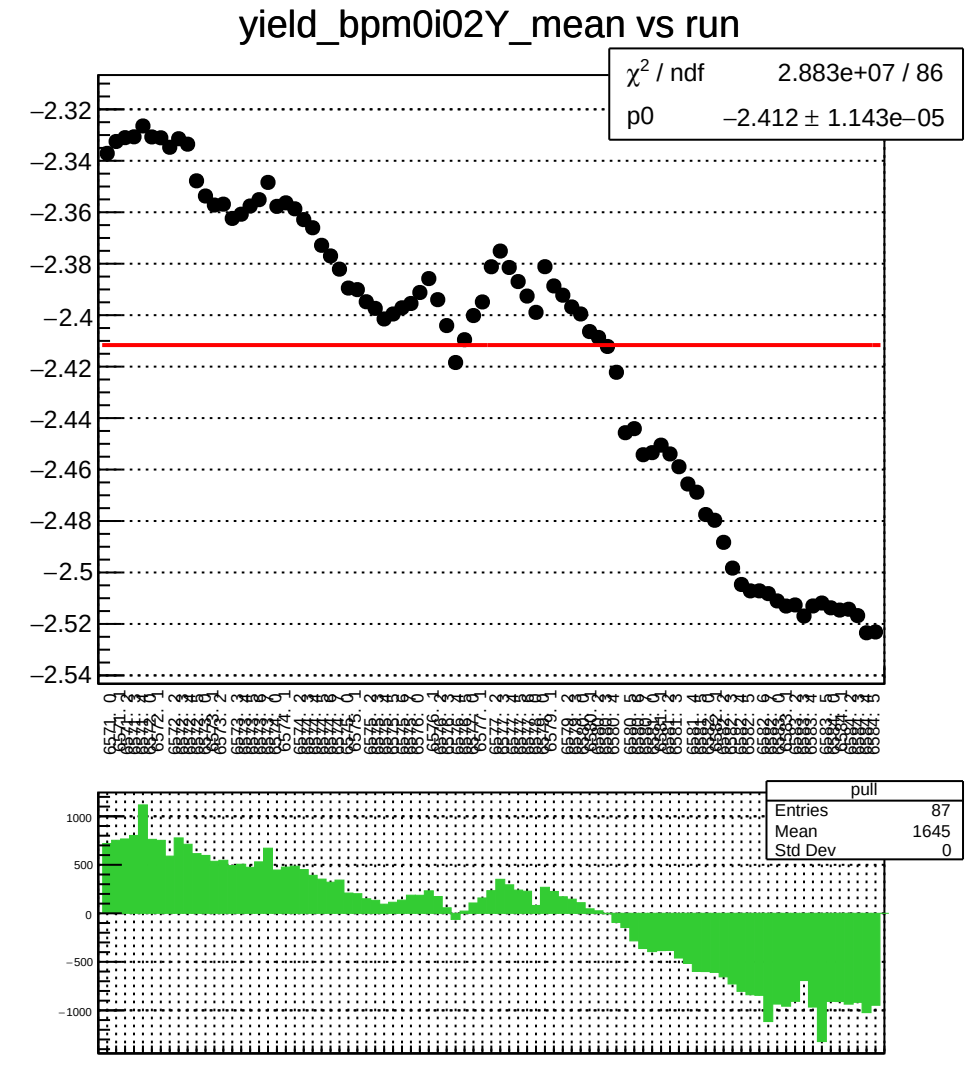

pull1D
Entries 87
Mean 0.4727
Std Dev 4.795
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

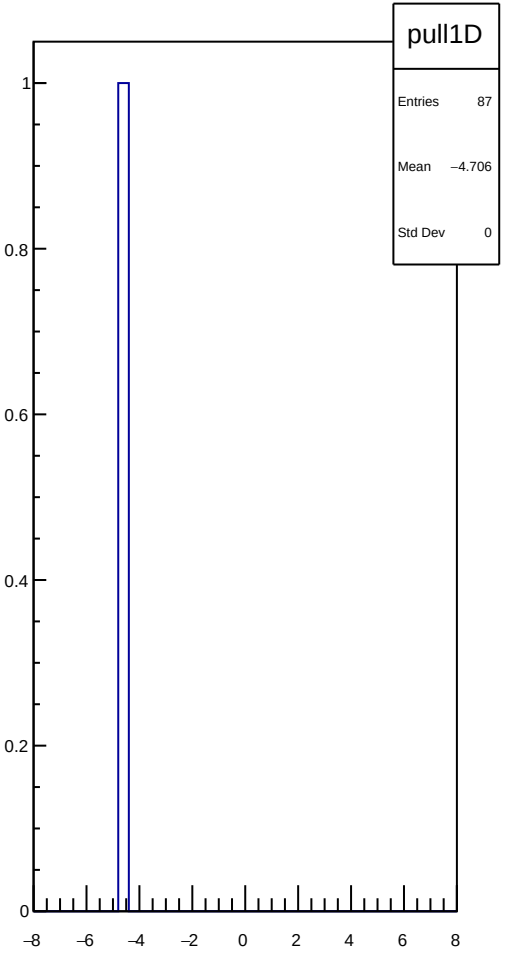

yield_bpm16Y_rms vs run
χ² / ndf 2.084e+05 / 86
p0 0.004127 ± 3.395e−06
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

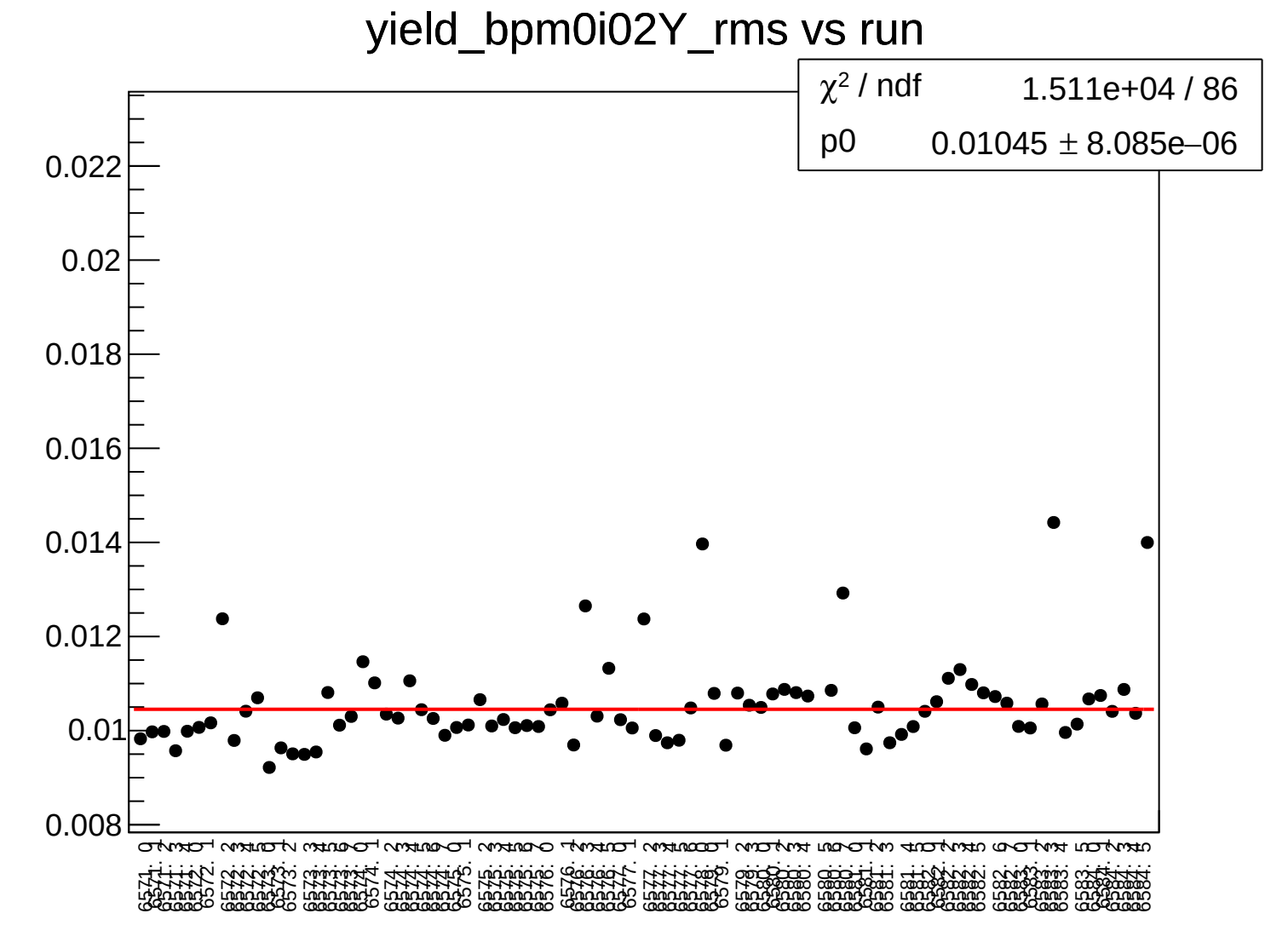

yield_bpm0i02X_mean vs run
χ² / ndf 2.447e+06 / 86
p0 −0.3755 ± 5.562e−06
−0.355
−0.36
−0.365
−0.37
−0.375
−0.38
−0.385
−0.39
−0.395
pull
Entries 87
Mean 106.8
Std Dev 90.58
500
400
300
200
100
0
−100
−200
−300

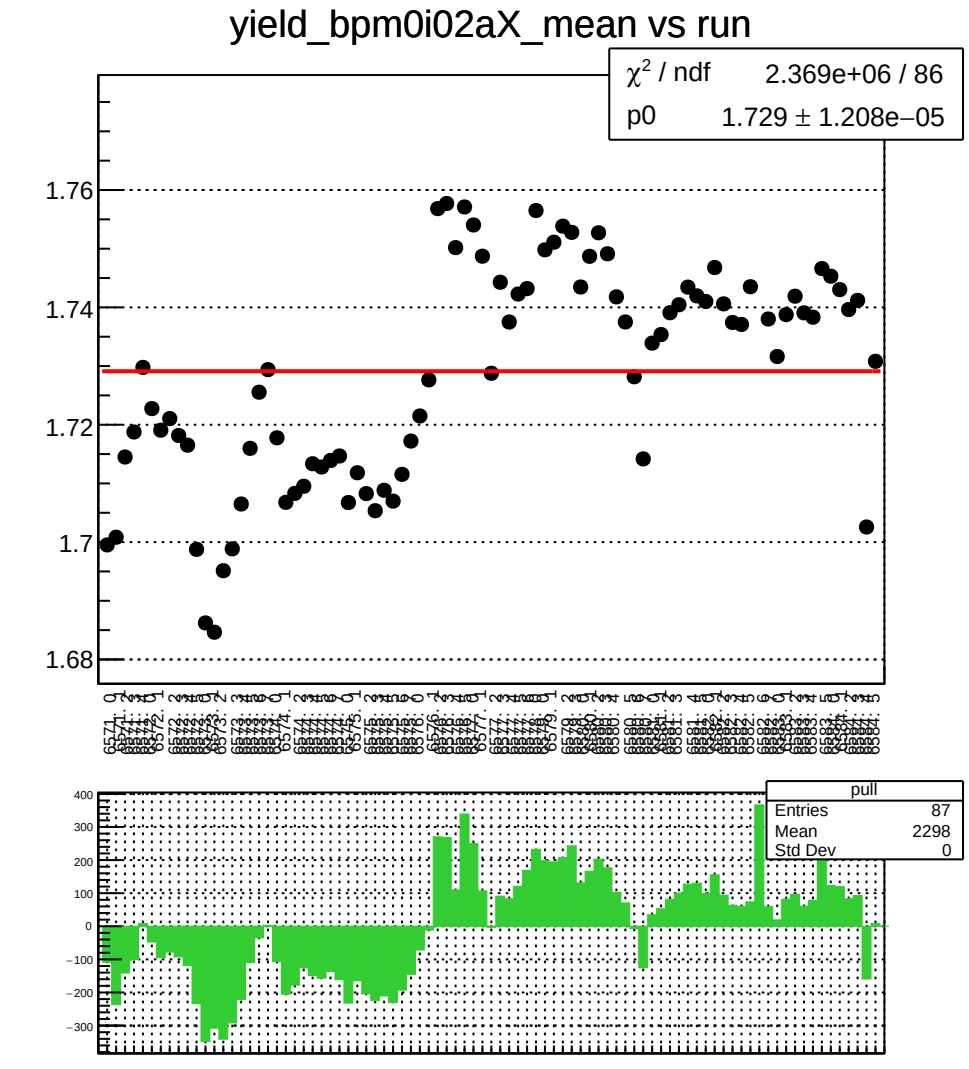

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

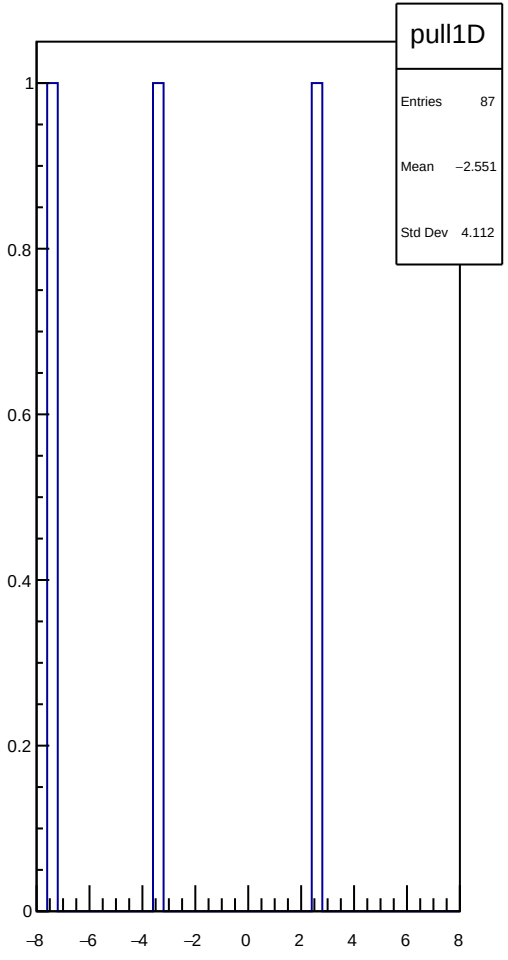

yield_bpm0i02X_rms vs run
χ^2 / ndf 5.131e+04 / 86
p0 0.005029 ± 3.933e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

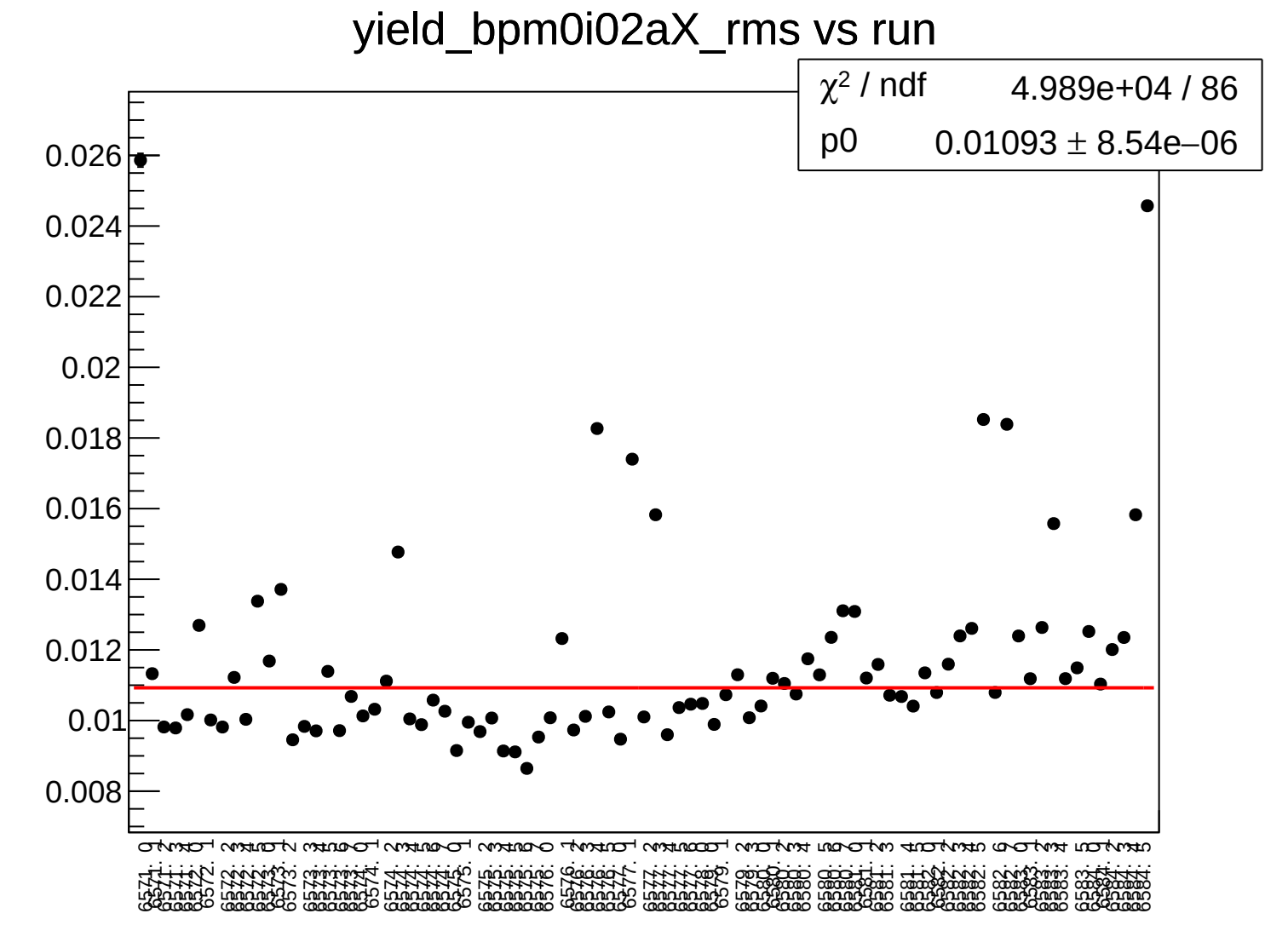

yield_bpm0i02Y_mean vs run
χ² / ndf 2.883e+07 / 86
p0 −2.412 ± 1.143e−05
−2.32
−2.34
−2.36
−2.38
−2.4
−2.42
−2.44
−2.46
−2.48
−2.5
−2.52
−2.54
pull
Entries 87
Mean 1645
Std Dev 0
1000
500
0
−500
−1000

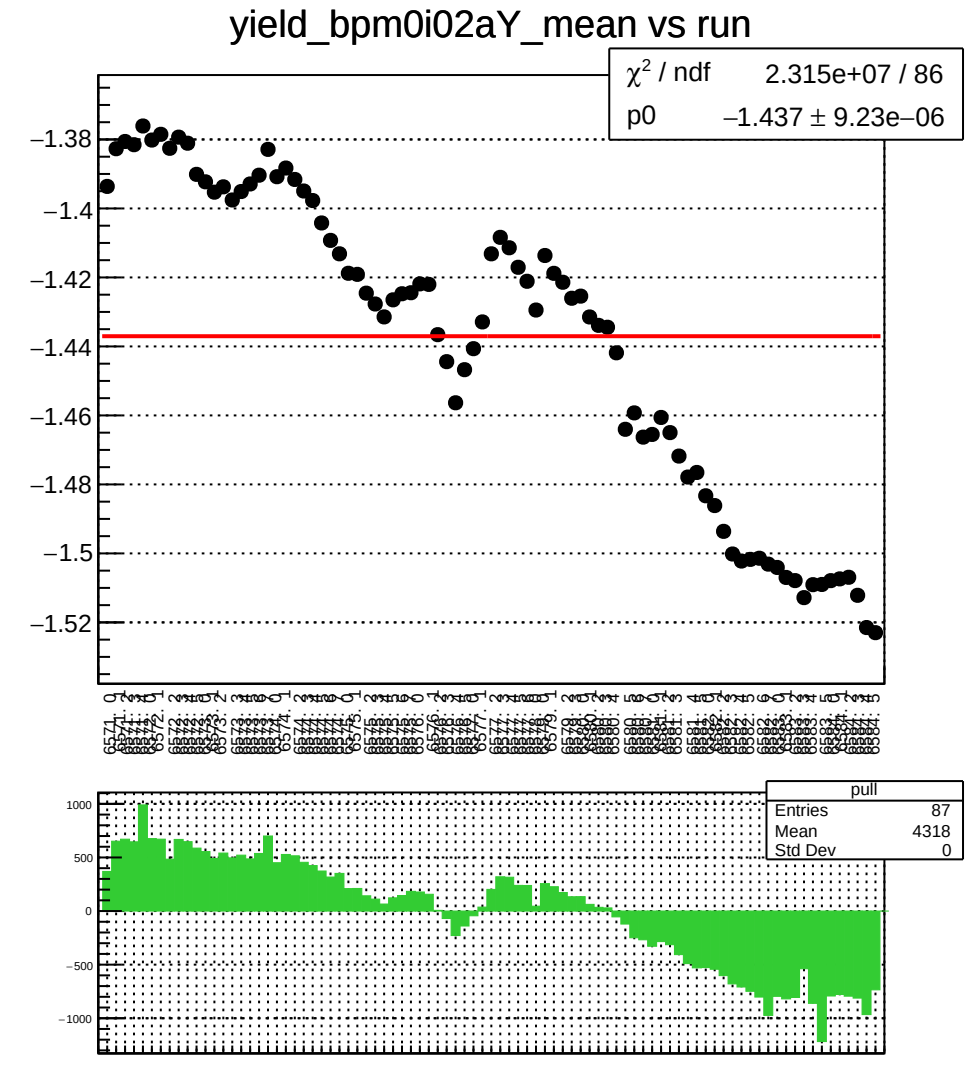

pull1D
Entries 87
Mean −4.706
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

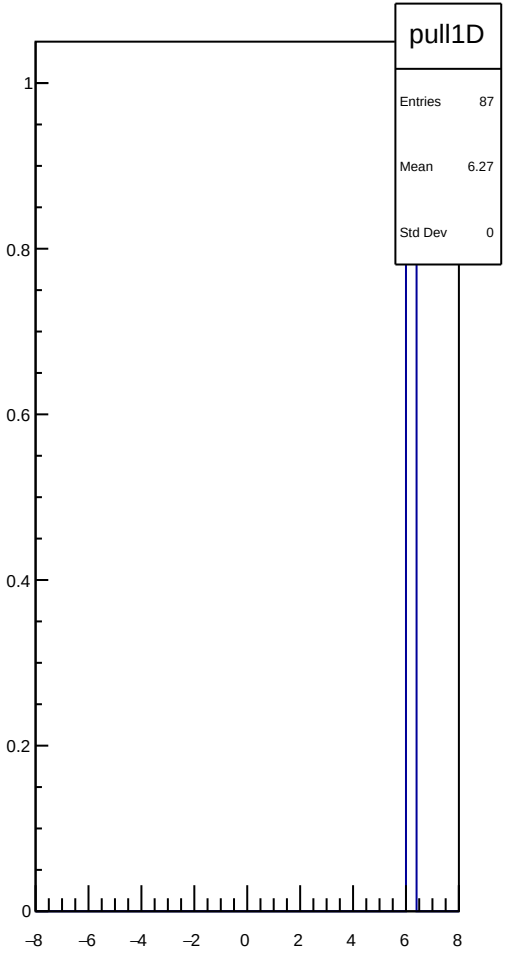

yield_bpm0i02Y_rms vs run
χ² / ndf 1.511e+04 / 86
p0 0.01045 ± 8.085e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

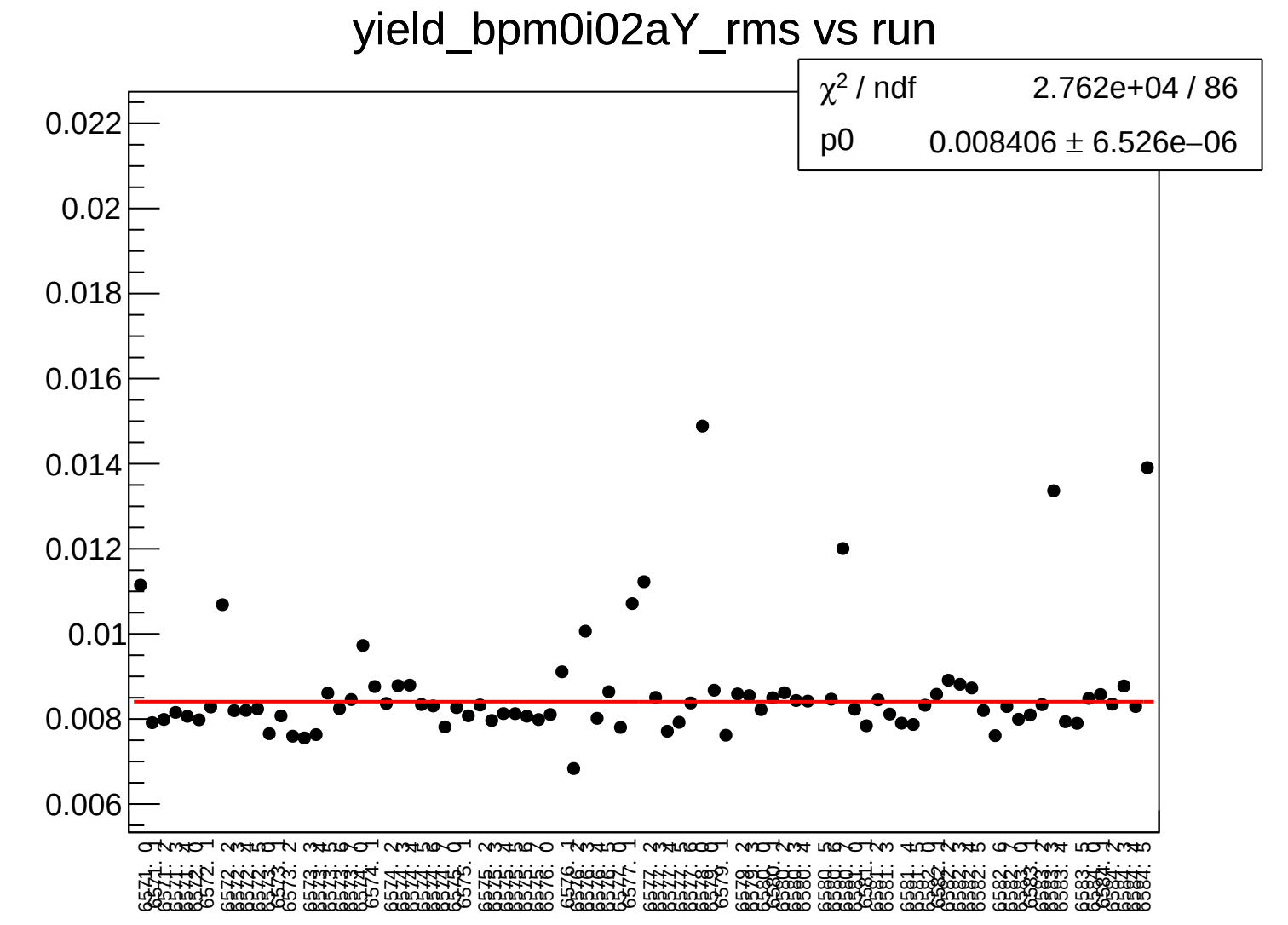

yield_bpm0i02aX_mean vs run
χ² / ndf 2.369e+06 / 86
p0 1.729 ± 1.208e−05
1.76
1.74
1.72
1.7
1.68
pull
Entries 87
Mean 2298
Std Dev 0
400
300
200
100
0
−100
−200
−300

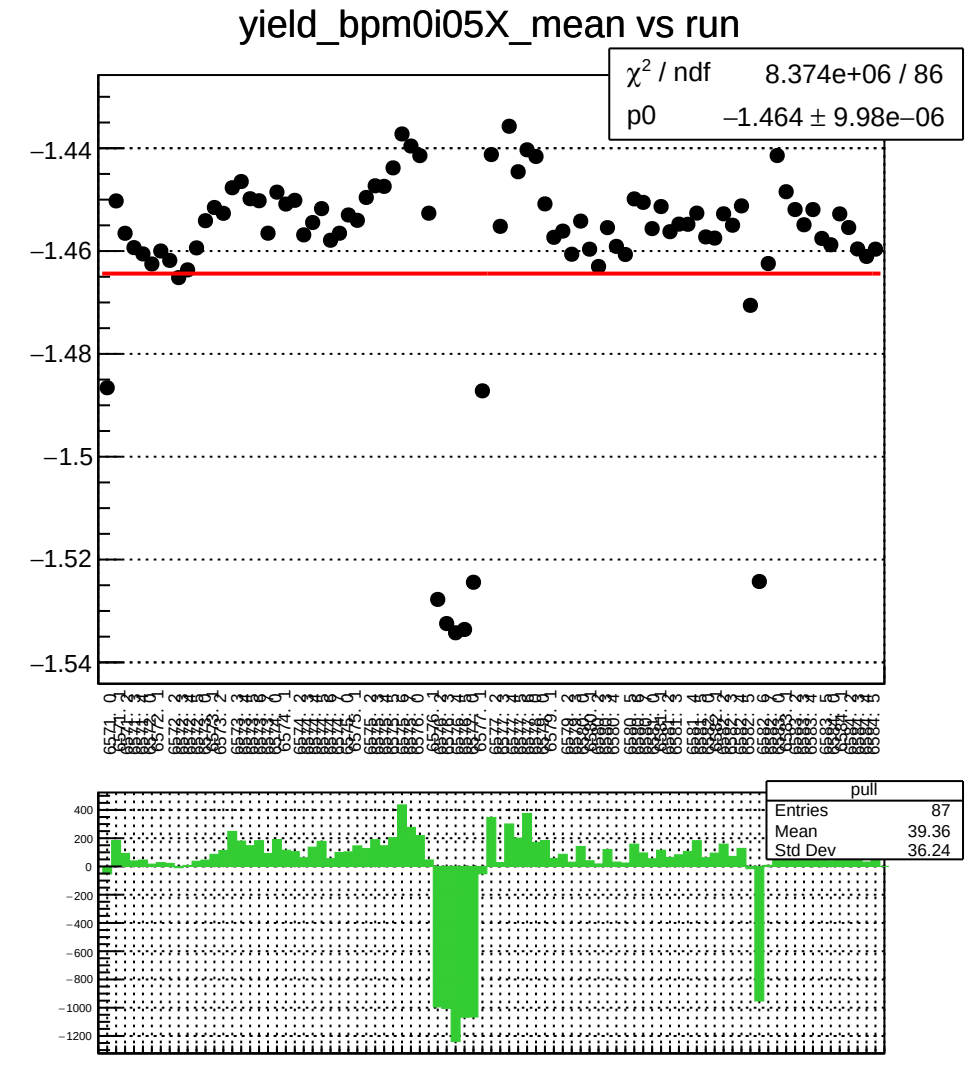

pull1D
Entries 87
Mean −2.551
Std Dev 4.112
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

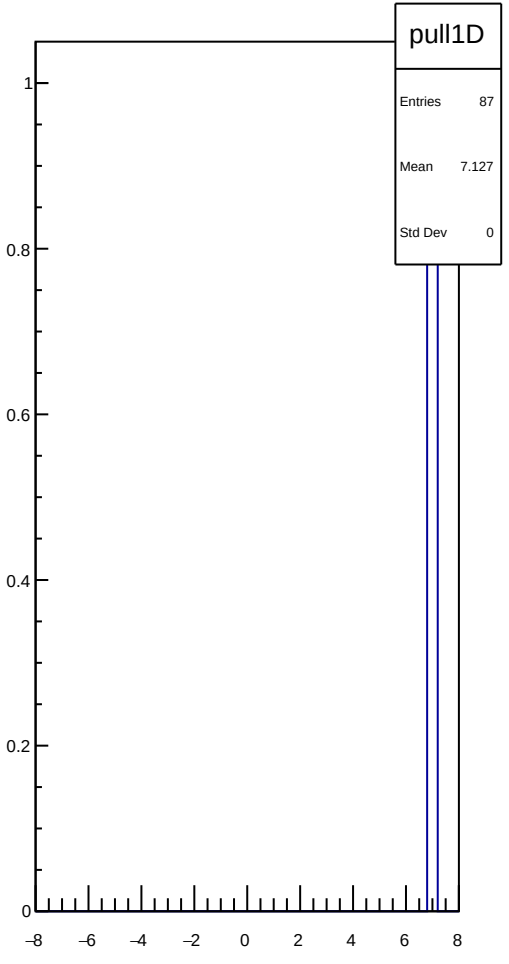

yield_bpm0i02aX_rms vs run
χ² / ndf 4.989e+04 / 86
p0 0.01093 ± 8.54e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

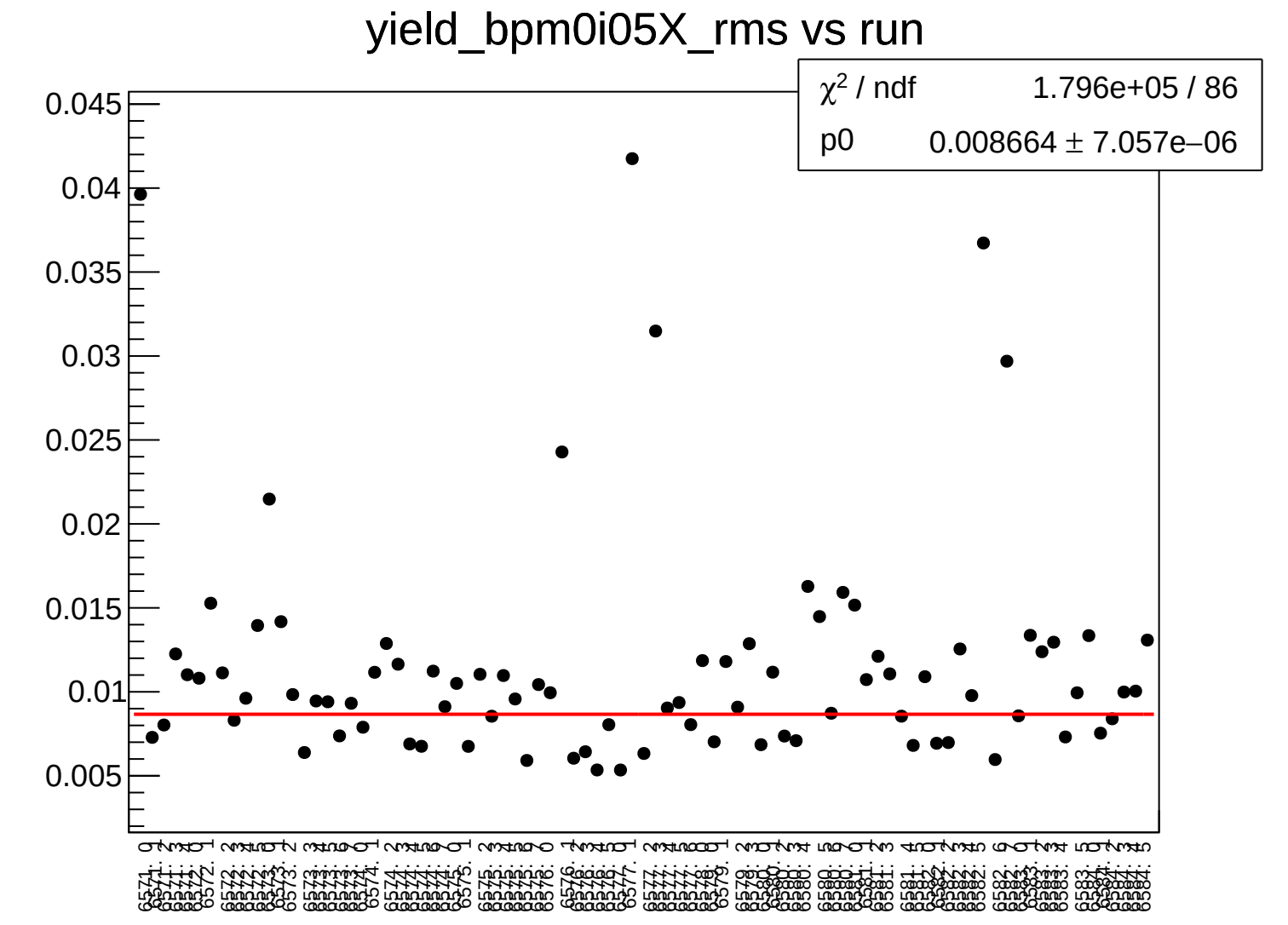

yield_bpm0i02aY_mean vs run
χ² / ndf 2.315e+07 / 86
p0 –1.437 ± 9.23e–06
–1.38
–1.4
–1.42
–1.44
–1.46
–1.48
–1.5
–1.52
pull
Entries 87
Mean 4318
Std Dev 0
1000
500
0
–500
–1000

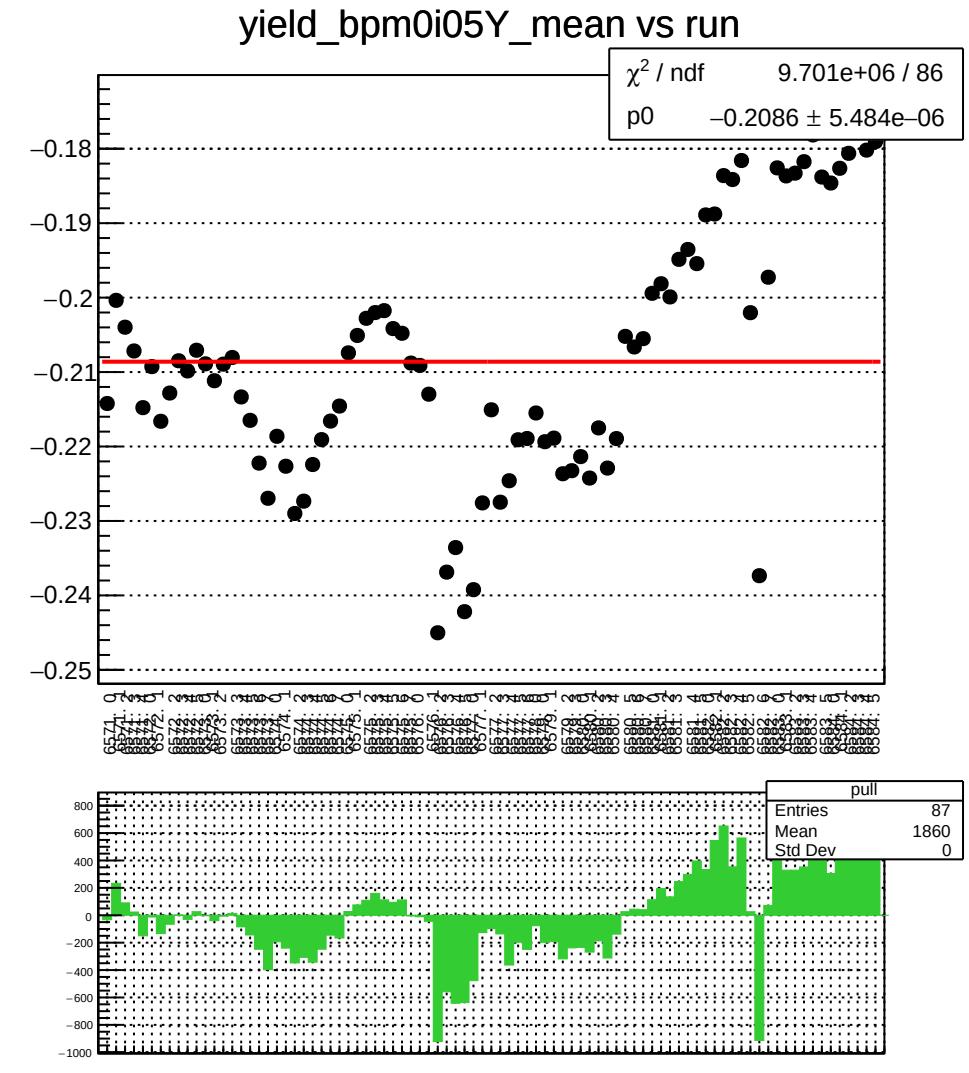

pull1D
Entries 87
Mean 6.27
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

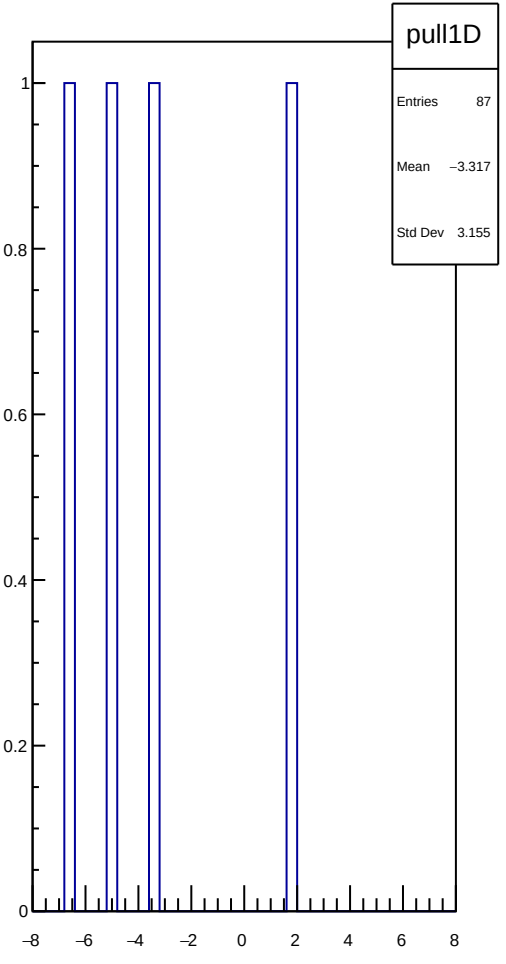

yield_bpm0i02aY_rms vs run
χ² / ndf 2.762e+04 / 86
p0 0.008406 ± 6.526e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

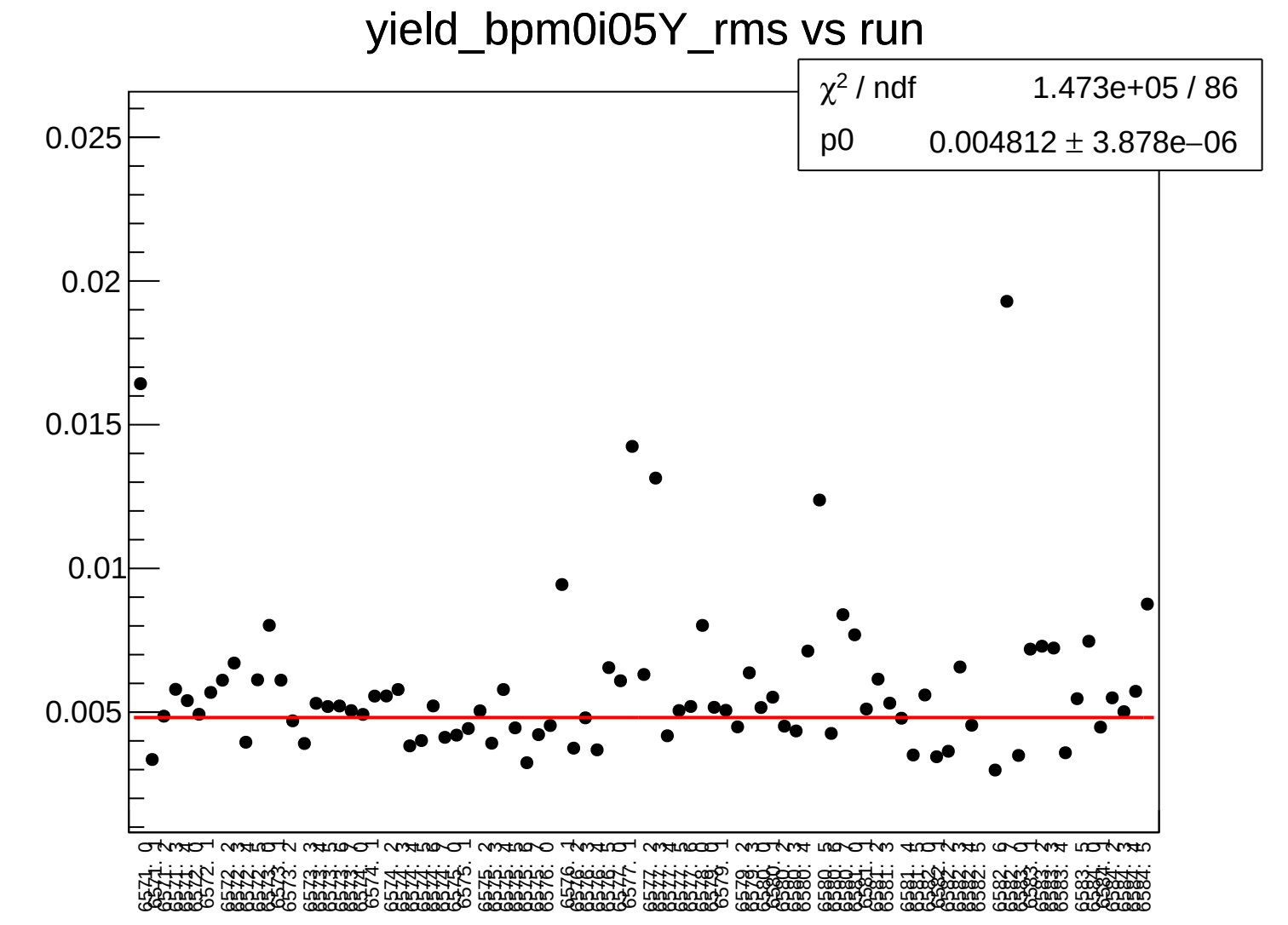

yield_bpm0i05X_mean vs run
χ² / ndf 8.374e+06 / 86
p0 −1.464 ± 9.98e−06
−1.44
−1.46
−1.48
−1.5
−1.52
−1.54
pull
Entries 87
Mean 39.36
Std Dev 36.24
400
200
0
−200
−400
−600
−800
−1000
−1200

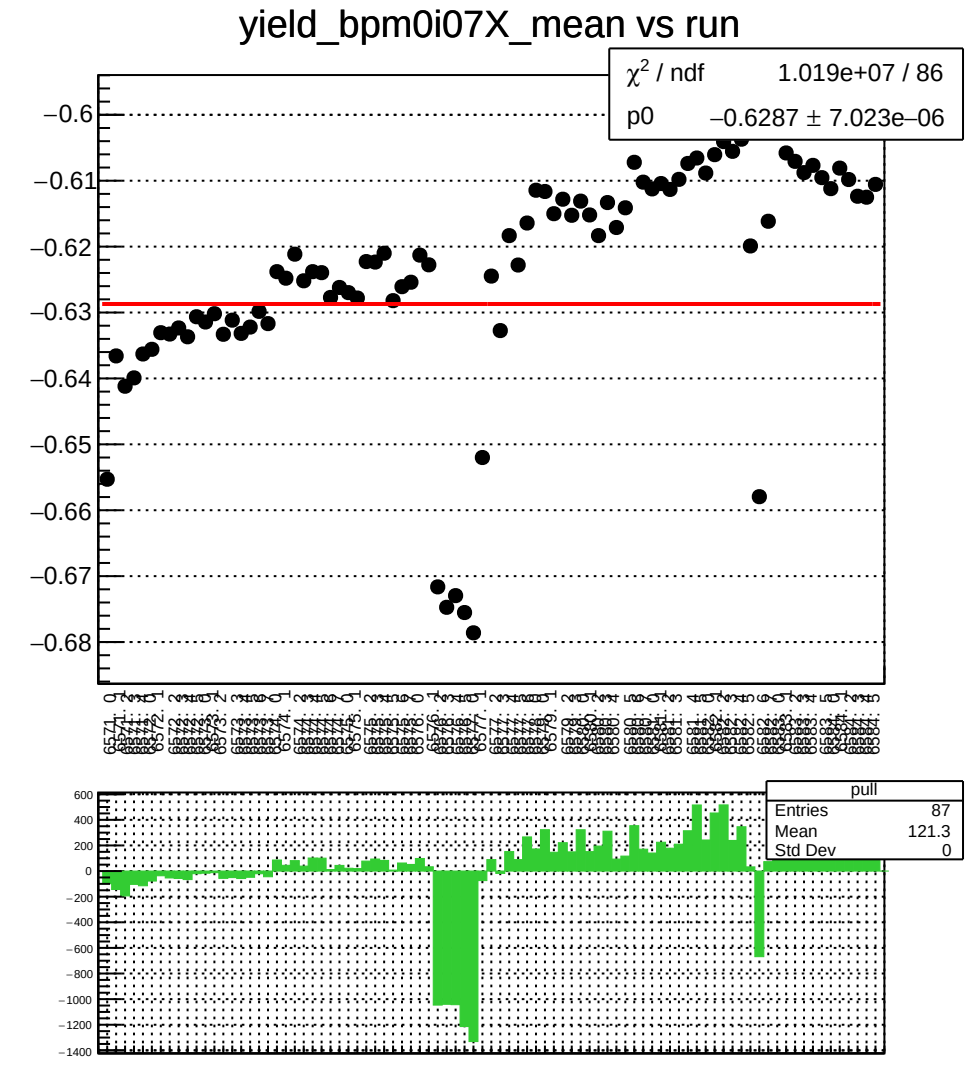

pull1D
Entries 87
Mean 7.127
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

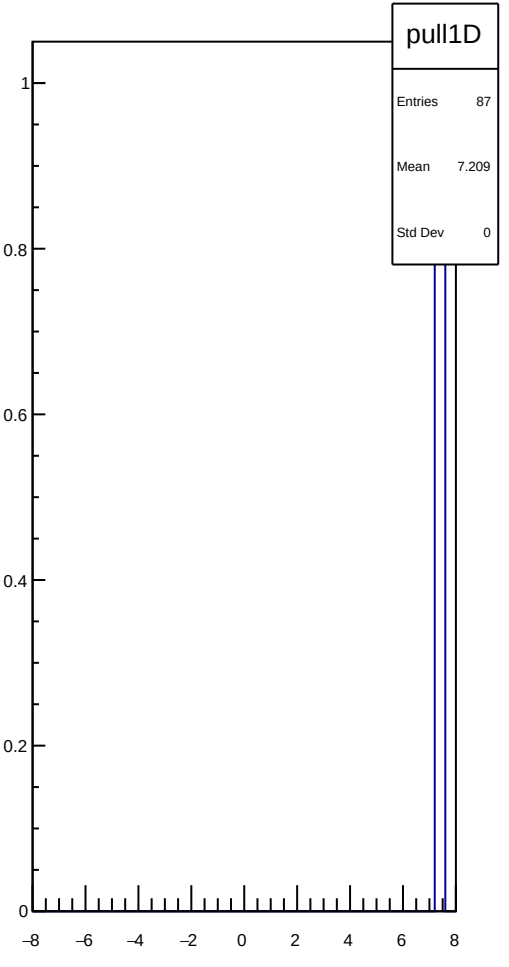

yield_bpm0i05X_rms vs run
χ² / ndf 1.796e+05 / 86
p0 0.008664 ± 7.057e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

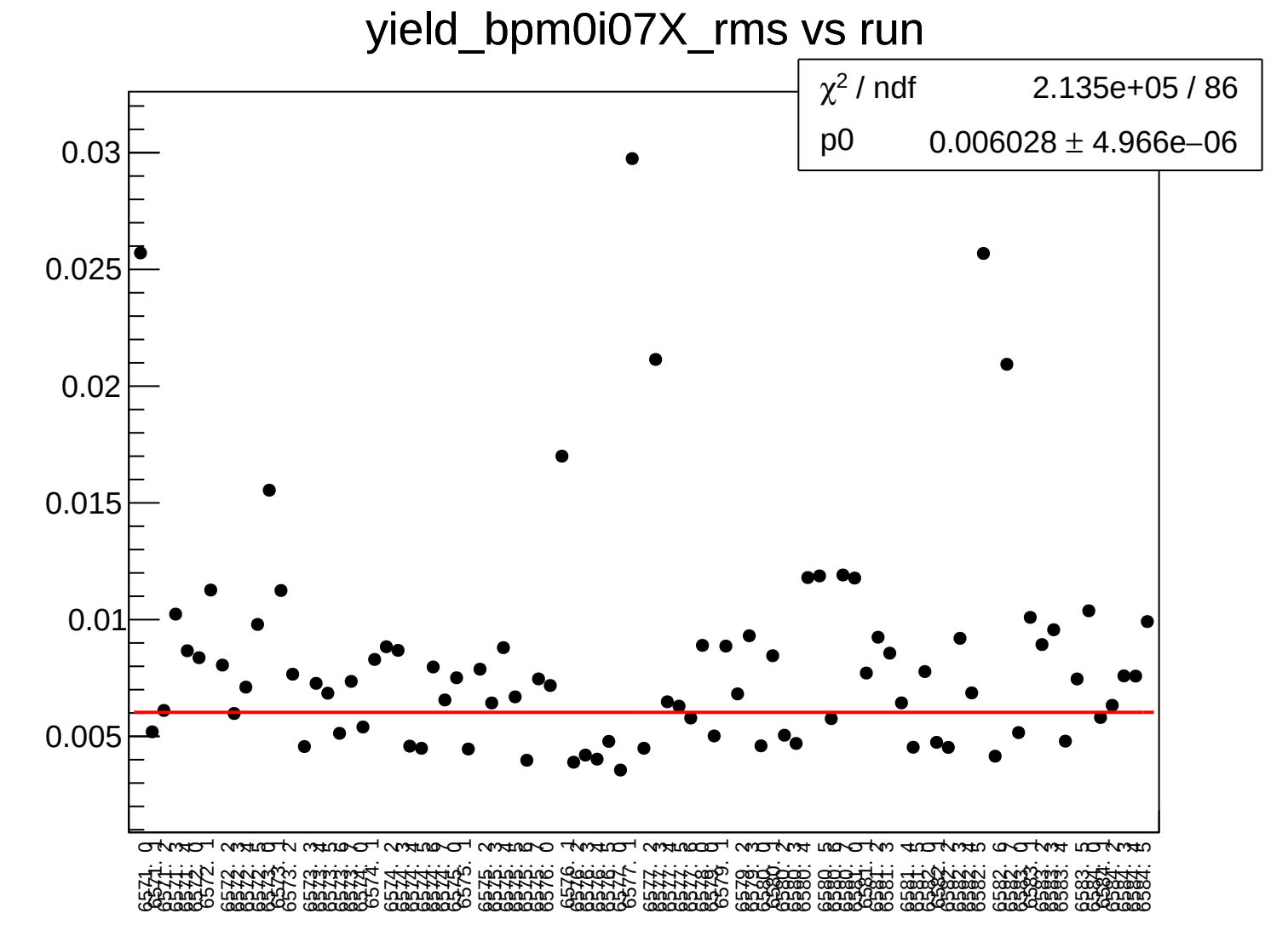

yield_bpm0i05Y_mean vs run
χ² / ndf 9.701e+06 / 86
p0 −0.2086 ± 5.484e−06
−0.18
−0.19
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
pull
Entries 87
Mean 1860
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

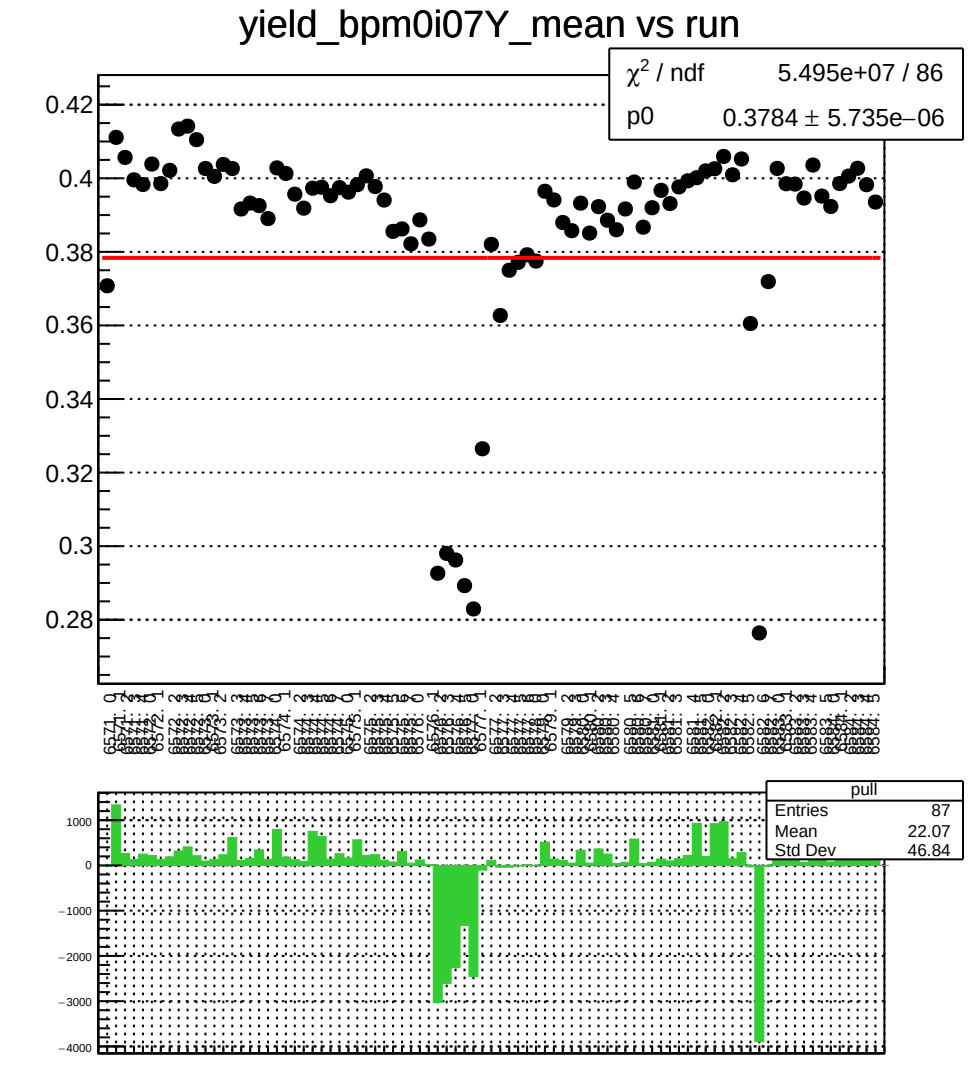

pull1D
Entries 87
Mean −3.317
Std Dev 3.155
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

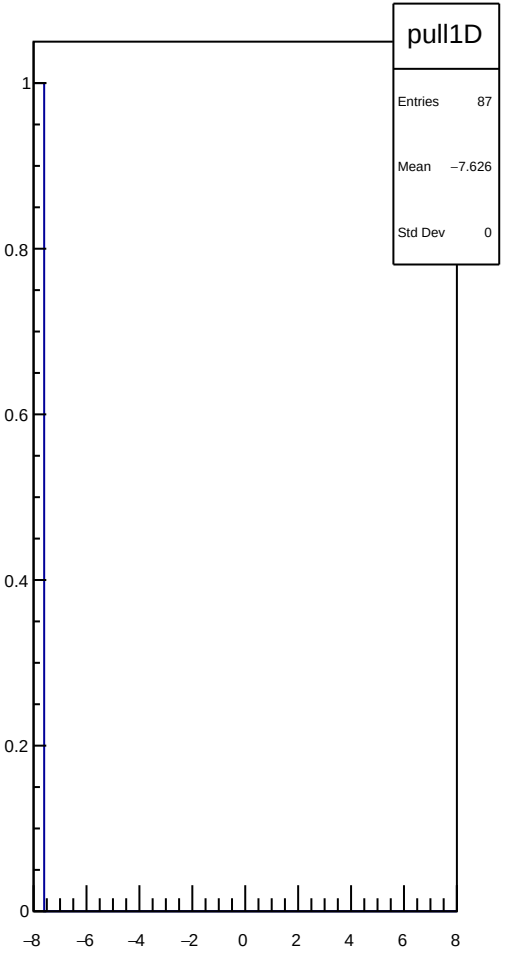

yield_bpm0i05Y_rms vs run
χ² / ndf 1.473e+05 / 86
p0 0.004812 ± 3.878e−06
0.025
0.02
0.015
0.01
0.005

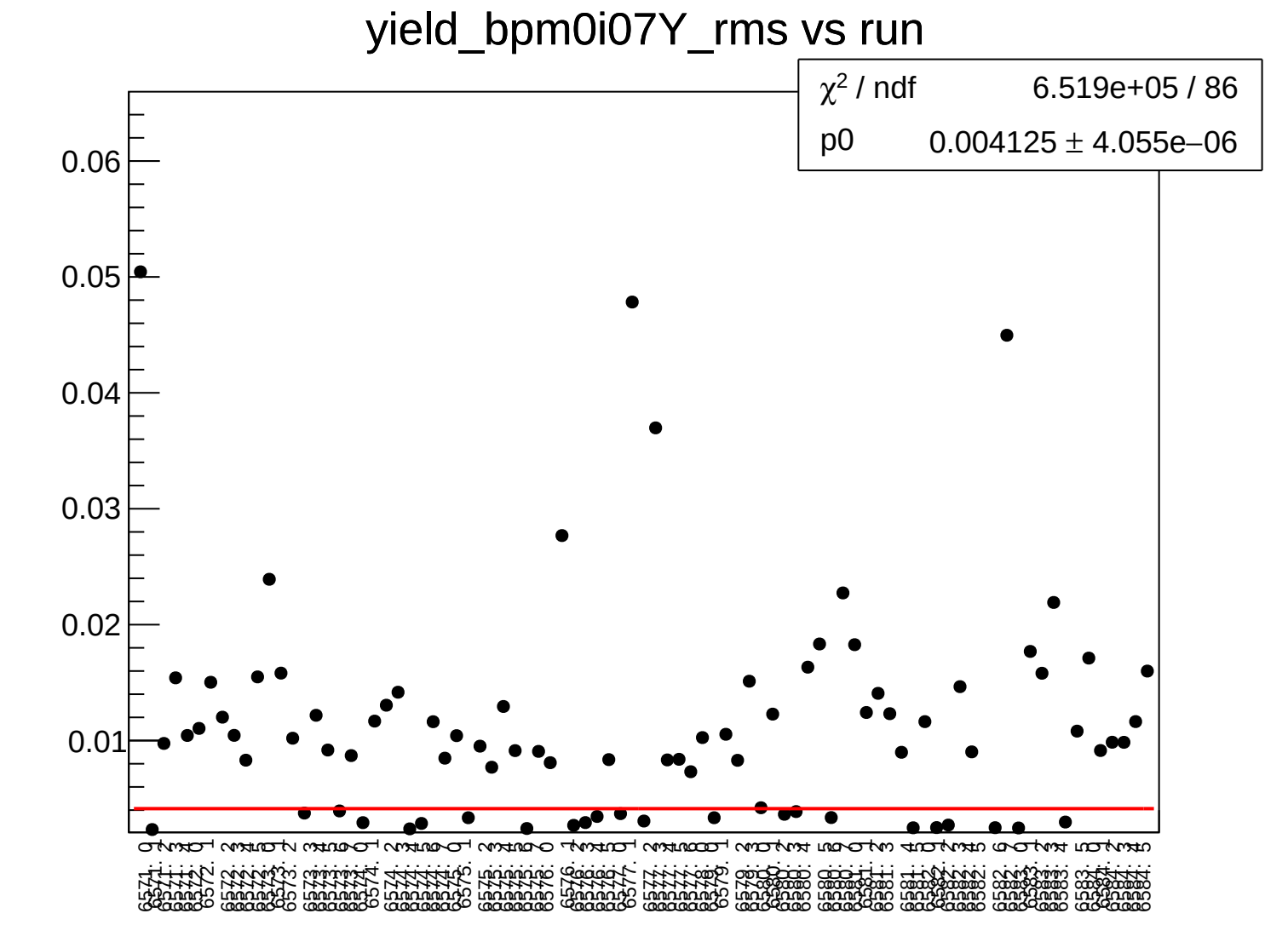

yield_bpm0i07X_mean vs run
χ² / ndf 1.019e+07 / 86
p0 −0.6287 ± 7.023e−06
−0.6
−0.61
−0.62
−0.63
−0.64
−0.65
−0.66
−0.67
−0.68
pull
Entries 87
Mean 121.3
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

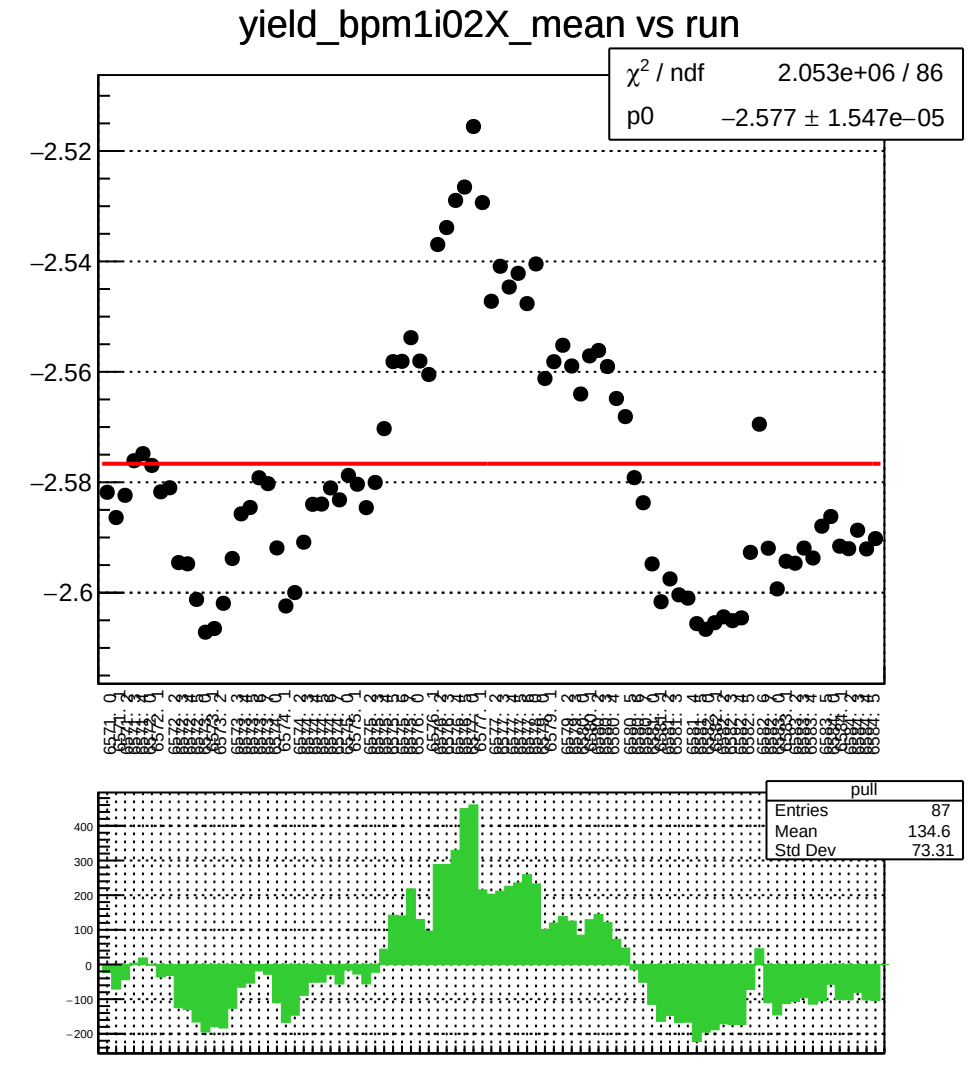

pull1D
Entries 87
Mean 7.209
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

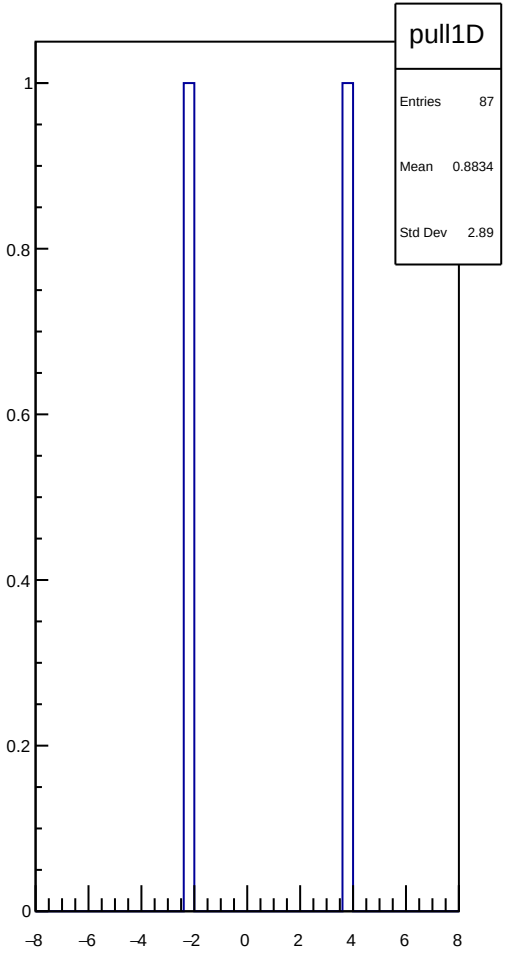

yield_bpm0i07X_rms vs run
χ^2 / ndf 2.135e+05 / 86
p0 0.006028 ± 4.966e−06
0.03
0.025
0.02
0.015
0.01
0.005

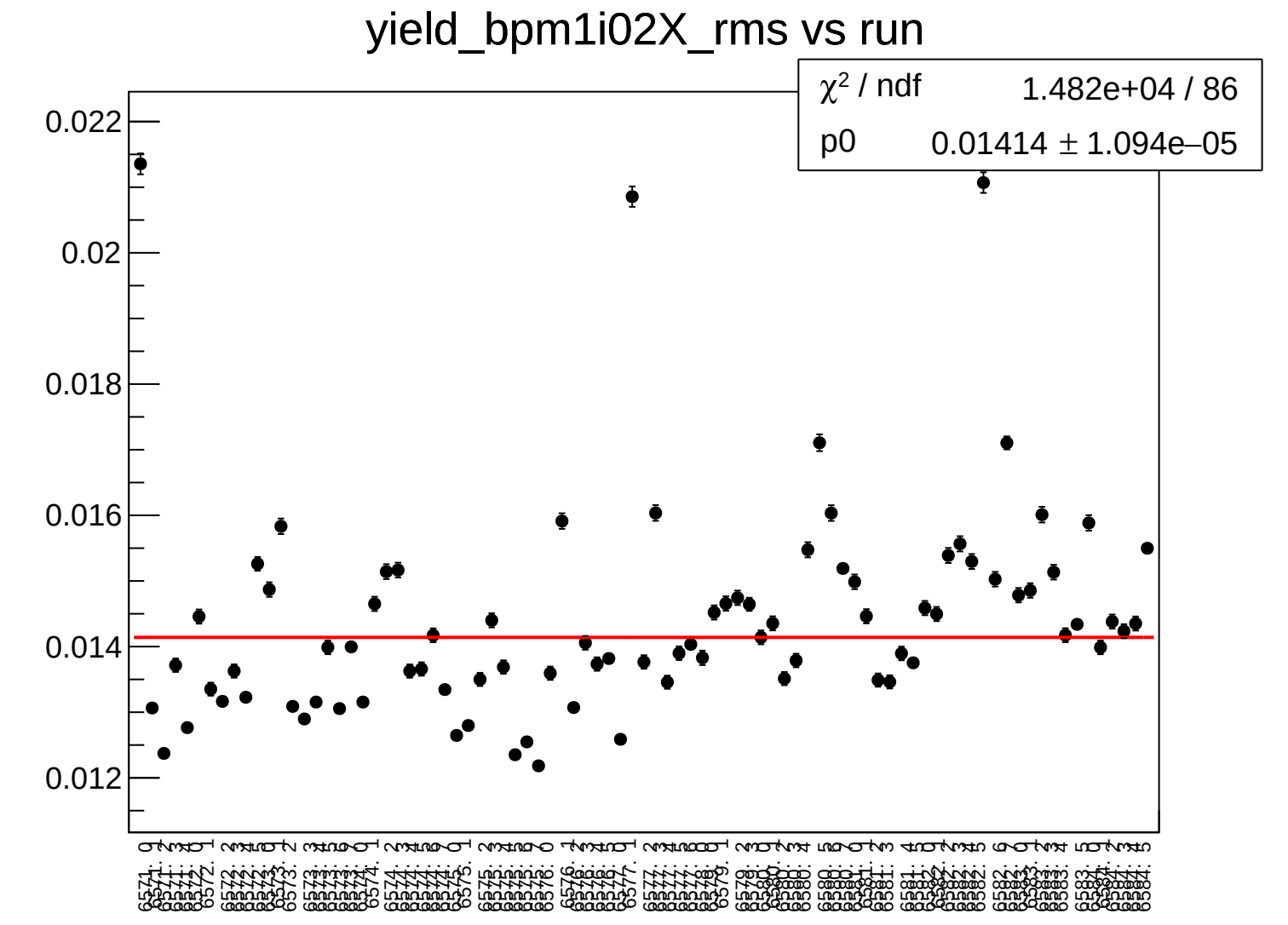

yield_bpm0i07Y_mean vs run
χ² / ndf 5.495e+07 / 86
p0 0.3784 ± 5.735e−06
0.42
0.4
0.38
0.36
0.34
0.32
0.3
0.28
pull
Entries 87
Mean 22.07
Std Dev 46.84
1000
0
−1000
−2000
−3000
−4000

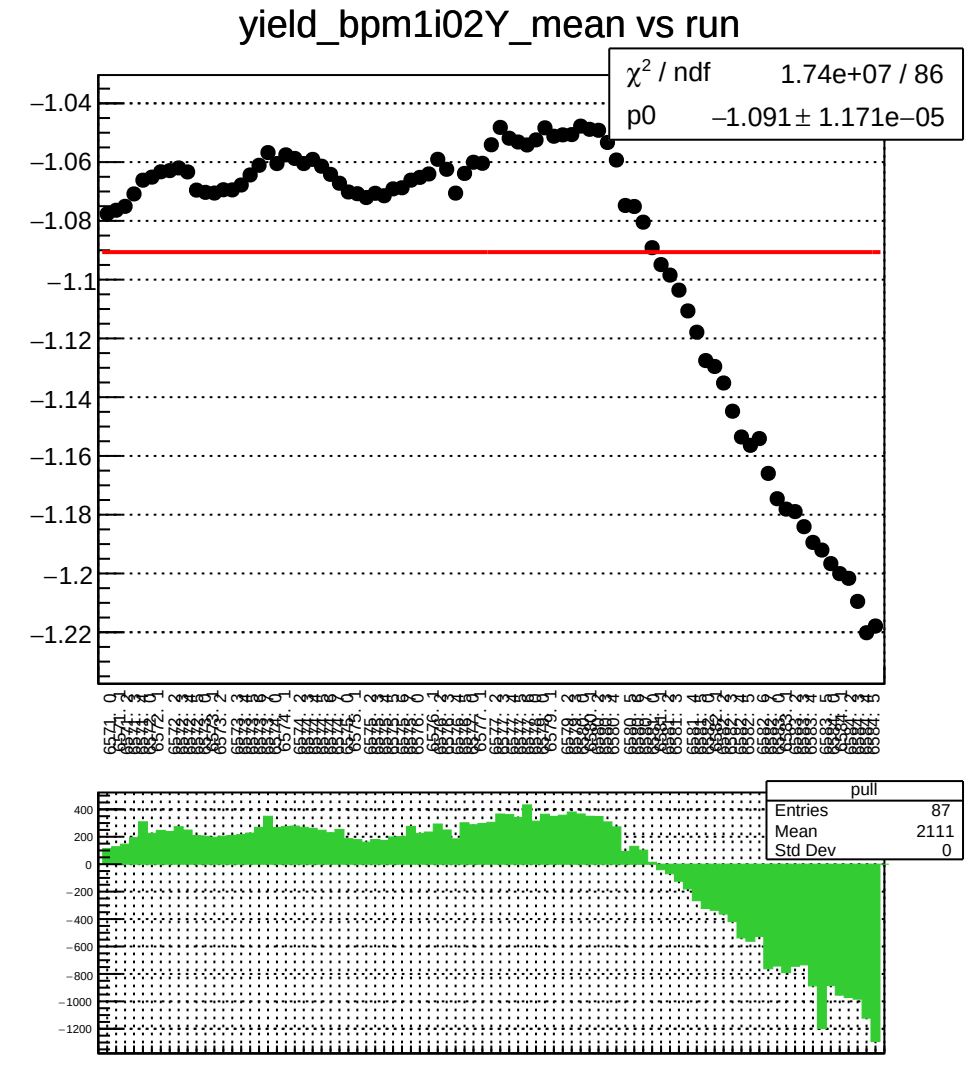

pull1D
Entries 87
Mean −7.626
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

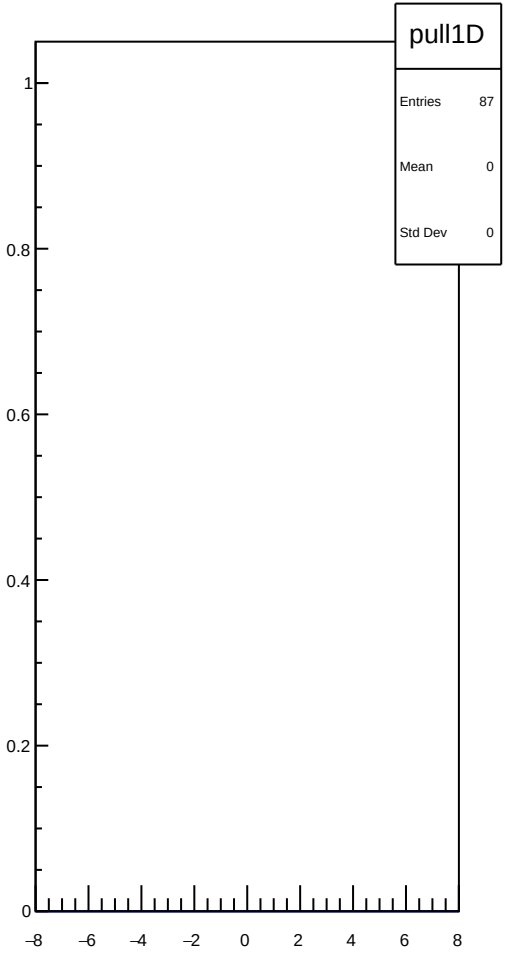

yield_bpm0i07Y_rms vs run
χ² / ndf 6.519e+05 / 86
p0 0.004125 ± 4.055e−06
0.06
0.05
0.04
0.03
0.02
0.01

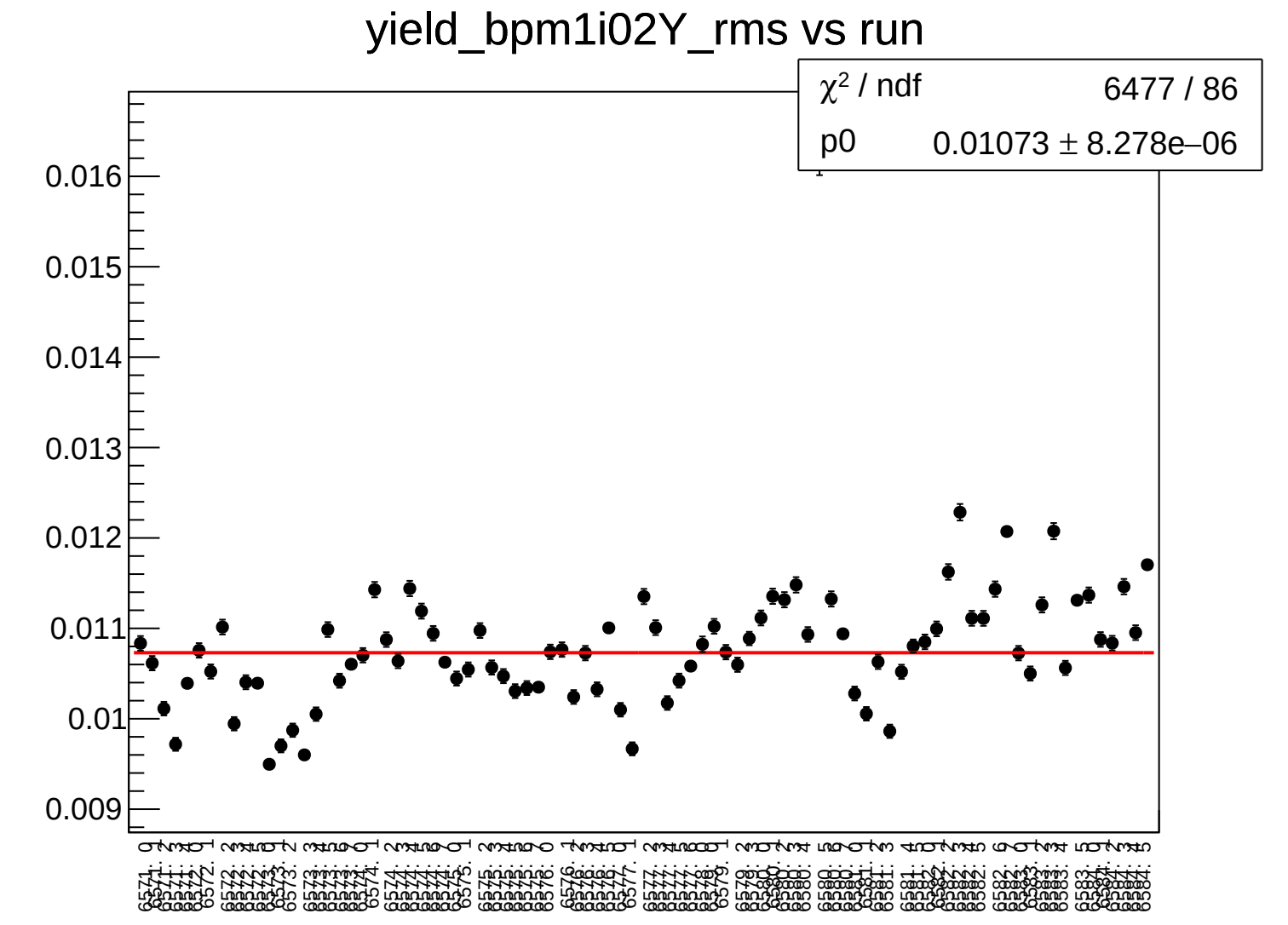

yield_bpm1i02X_mean vs run
χ² / ndf 2.053e+06 / 86
p0 −2.577 ± 1.547e−05
−2.52
−2.54
−2.56
−2.58
−2.6
pull
Entries 87
Mean 134.6
Std Dev 73.31
400
300
200
100
0
−100
−200

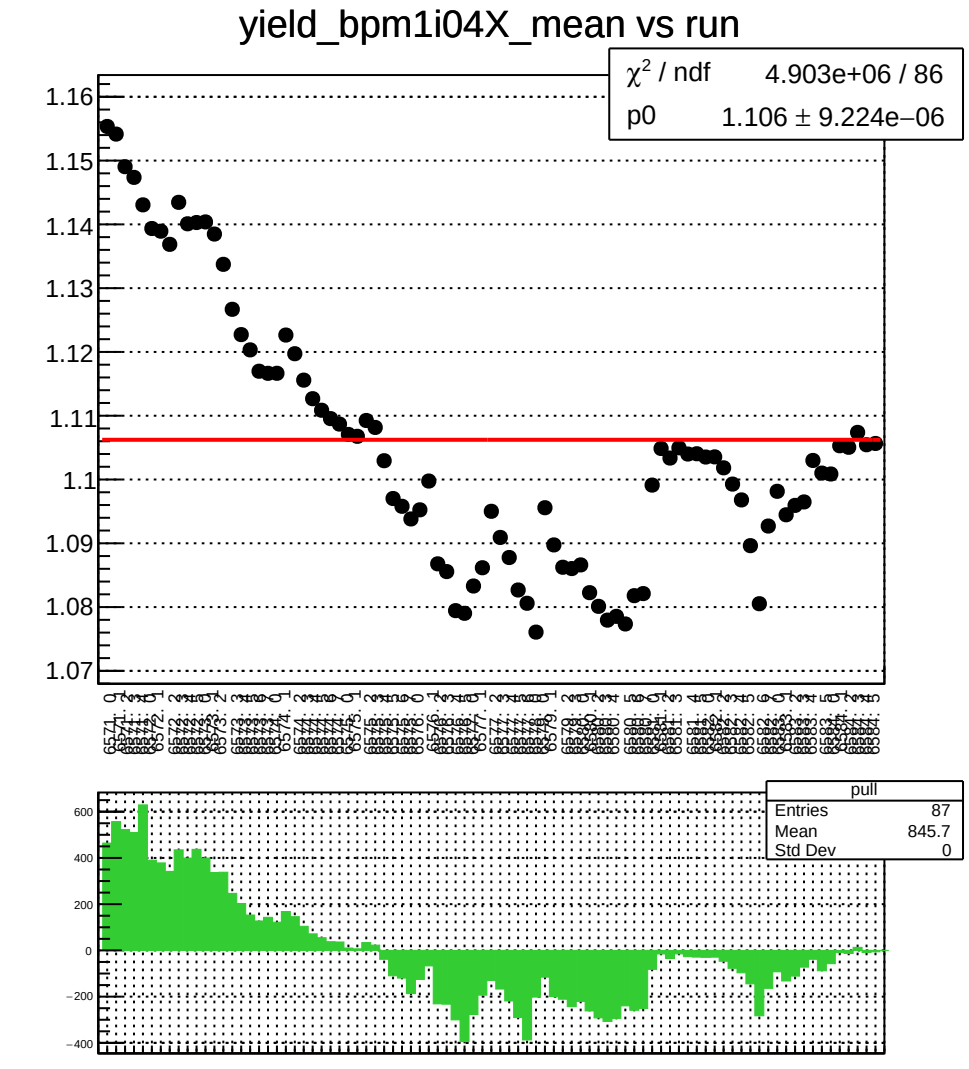

pull1D
Entries 87
Mean 0.8834
Std Dev 2.89
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

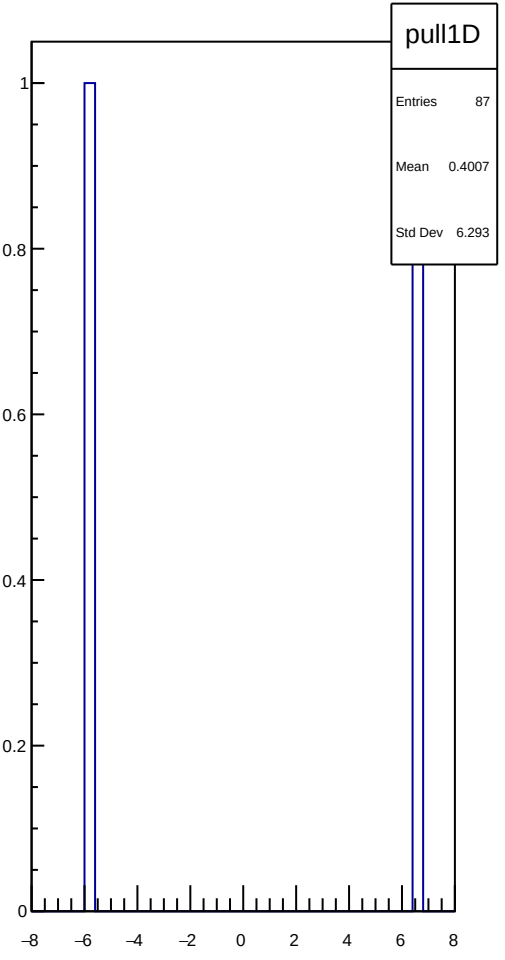

yield_bpm1i02X_rms vs run
χ² / ndf 1.482e+04 / 86
p0 0.01414 ± 1.094e−05
0.022
0.02
0.018
0.016
0.014
0.012

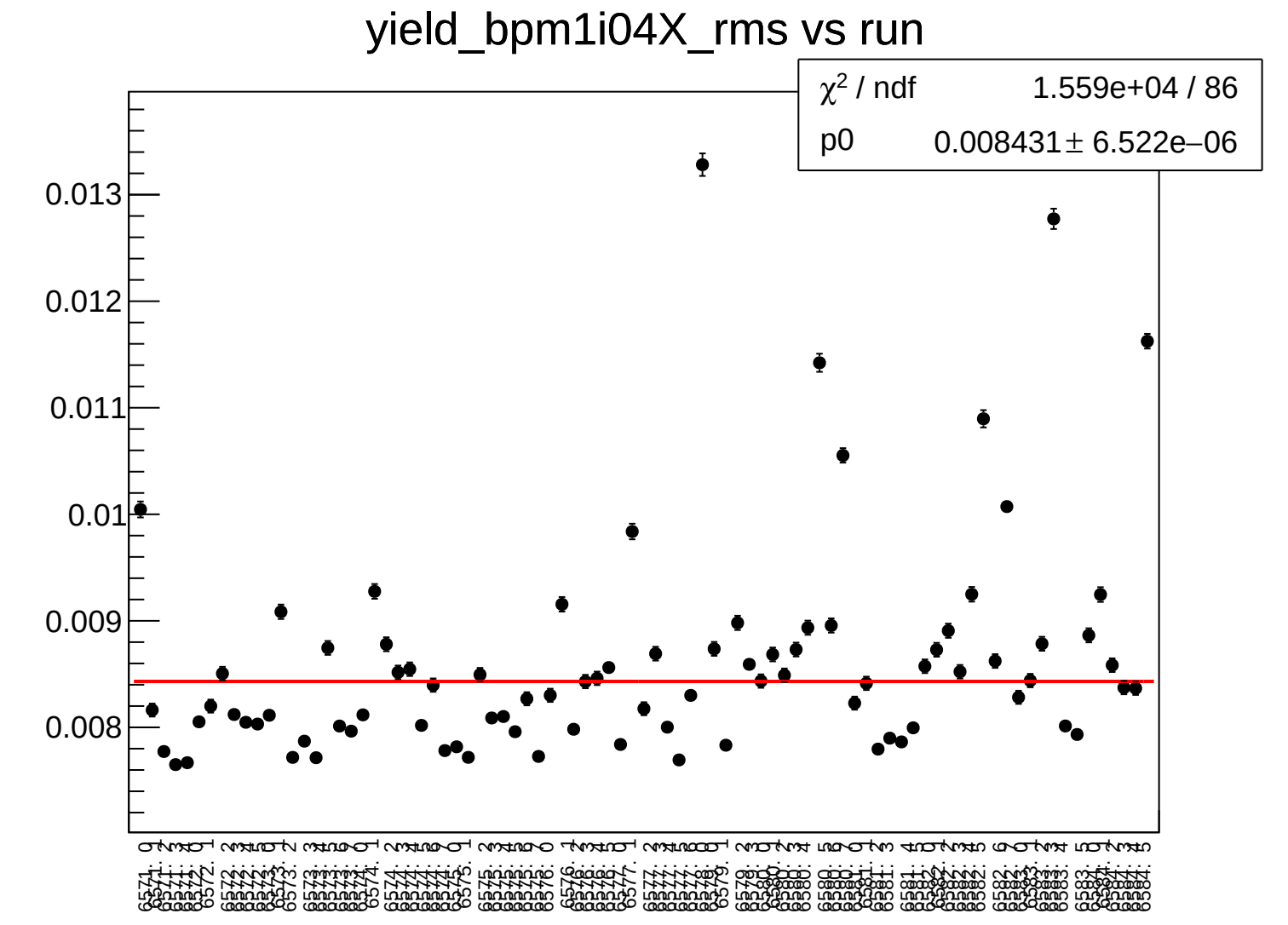

yield_bpm1i02Y_mean vs run
χ² / ndf 1.74e+07 / 86
p0 −1.091 ± 1.171e−05
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
pull
Entries 87
Mean 2111
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

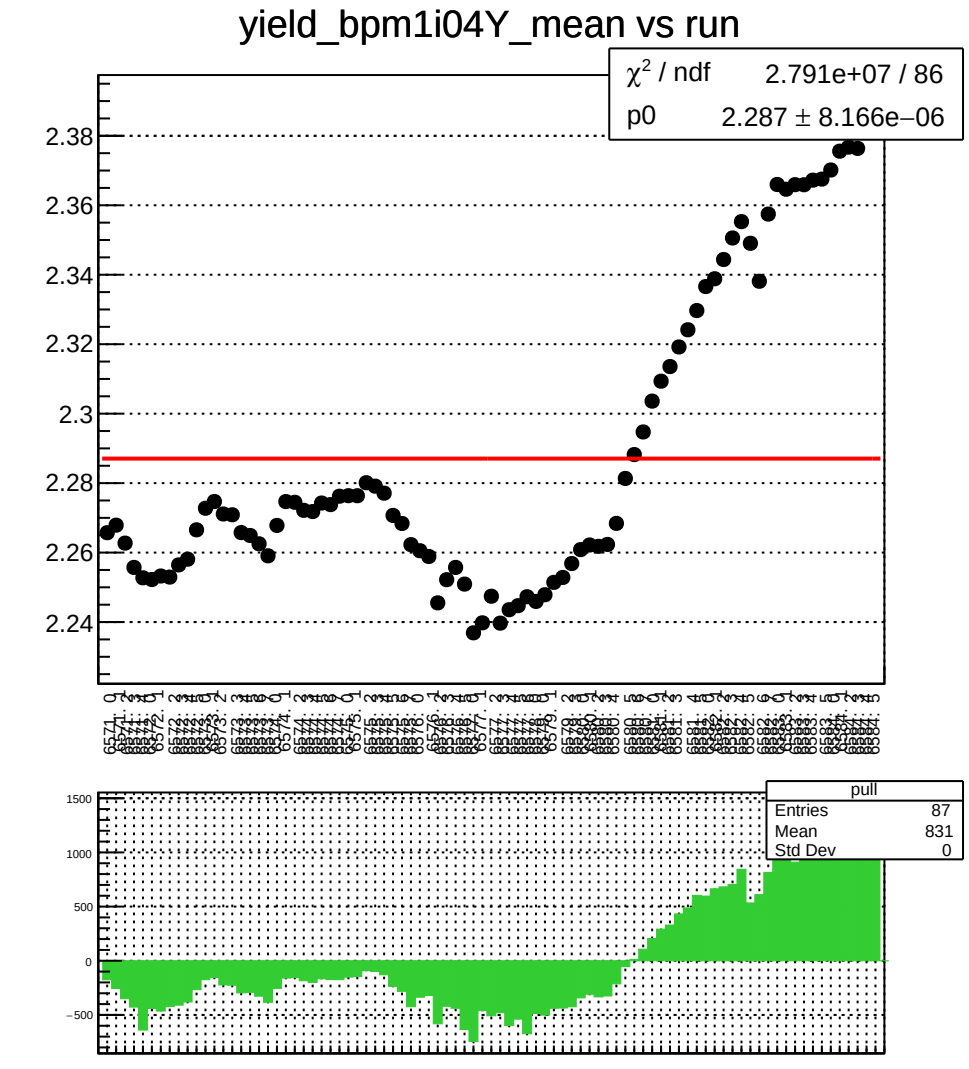

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

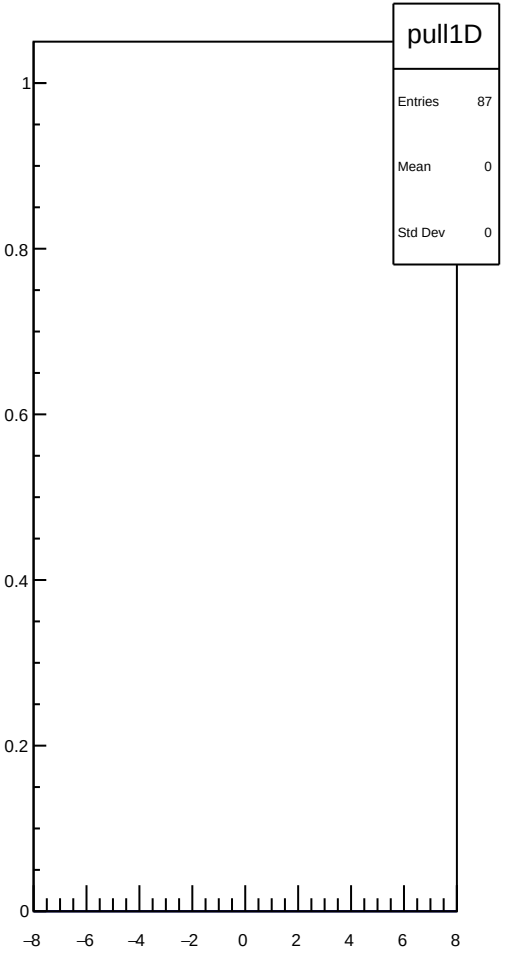

yield_bpm1i02Y_rms vs run
χ² / ndf 6477 / 86
p0 0.01073 ± 8.278e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009


yield_bpm1i04X_mean vs run
χ² / ndf 4.903e+06 / 86
p0 1.106 ± 9.224e−06
pull
Entries 87
Mean 845.7
Std Dev 0

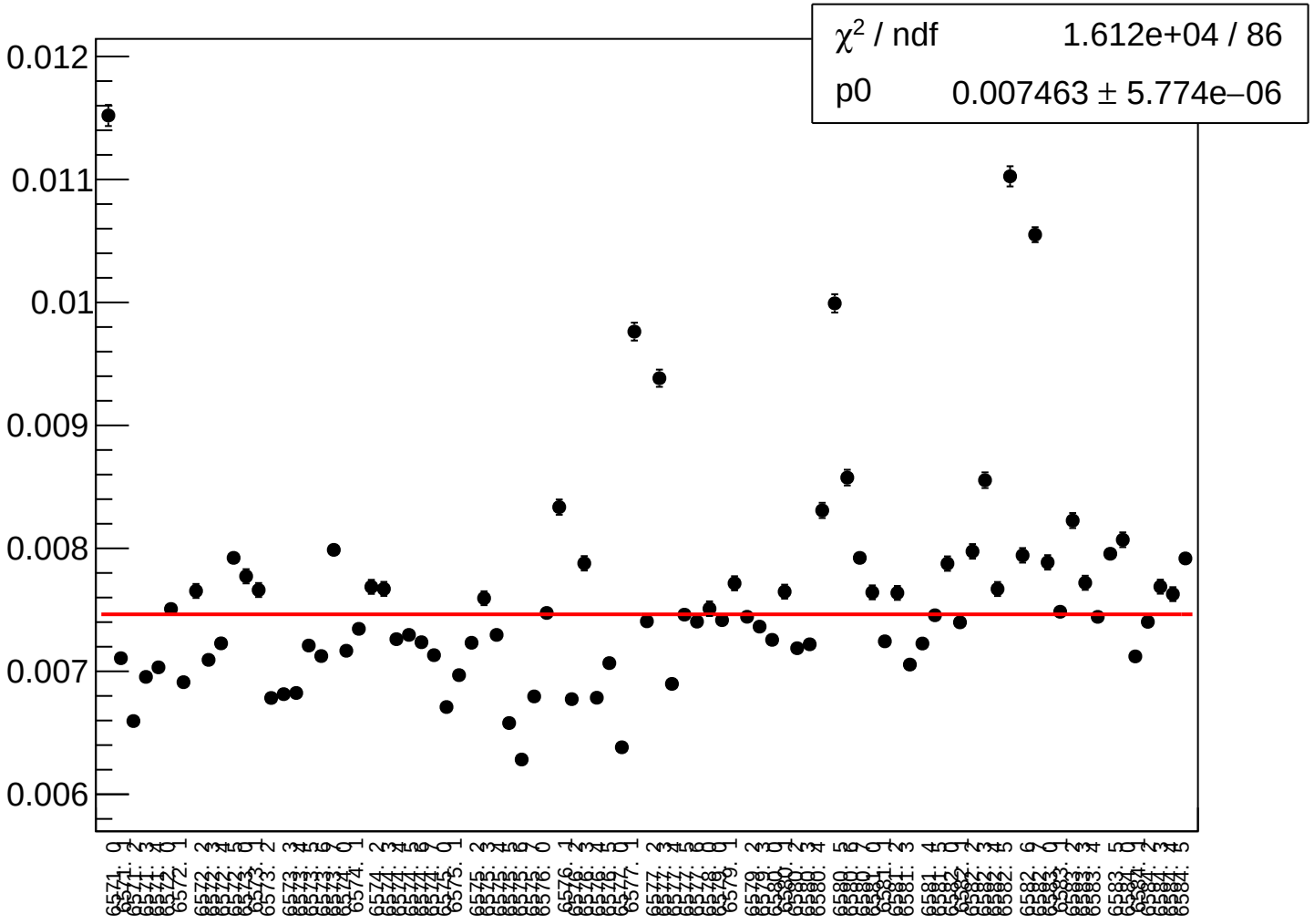

pull1D
Entries 87
Mean 0.4007
Std Dev 6.293

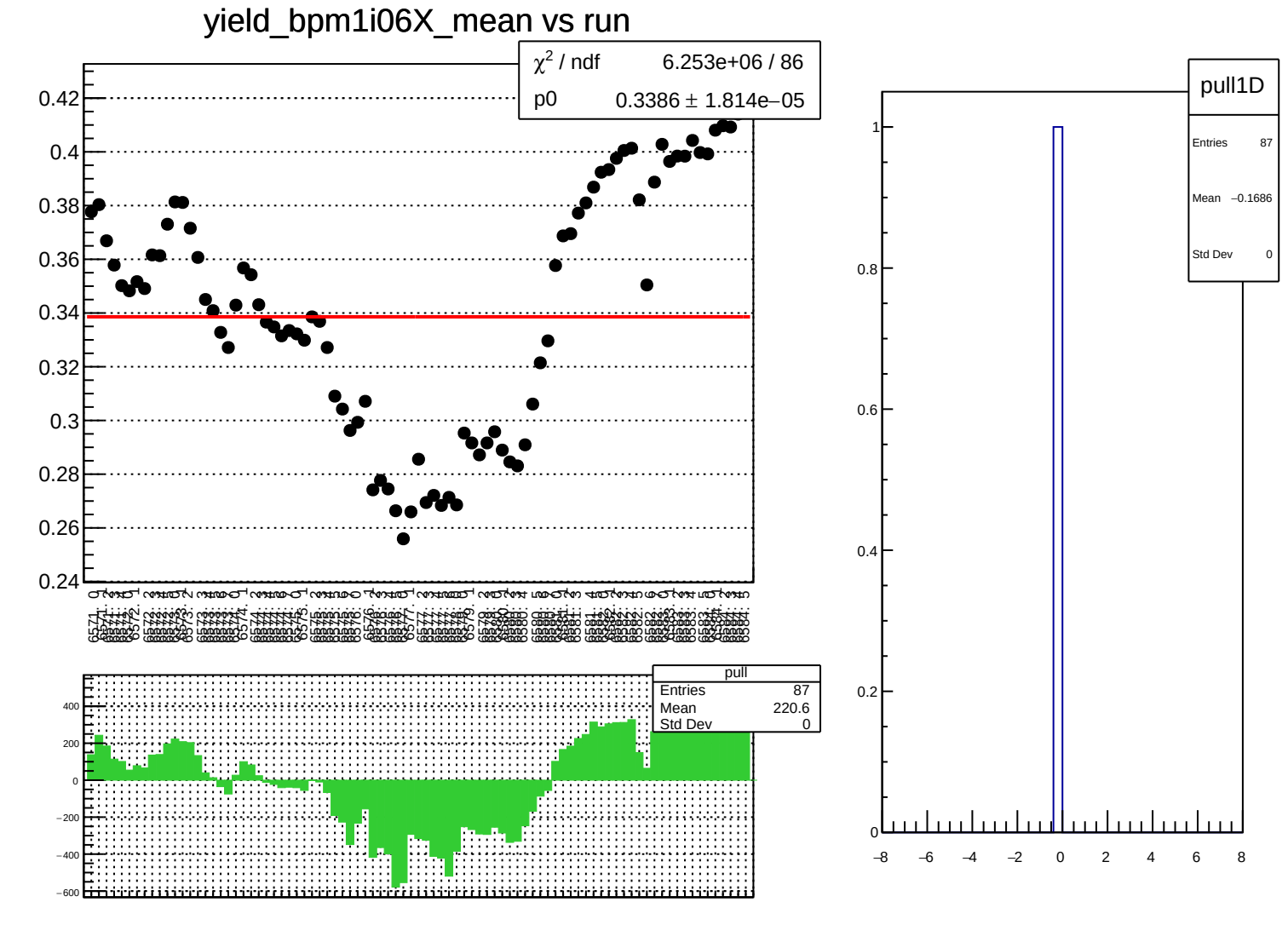

yield_bpm1i04X_rms vs run
χ2 / ndf 1.559e+04 / 86
p0 0.008431 ± 6.522e−06
0.013
0.012
0.011
0.01
0.009
0.008

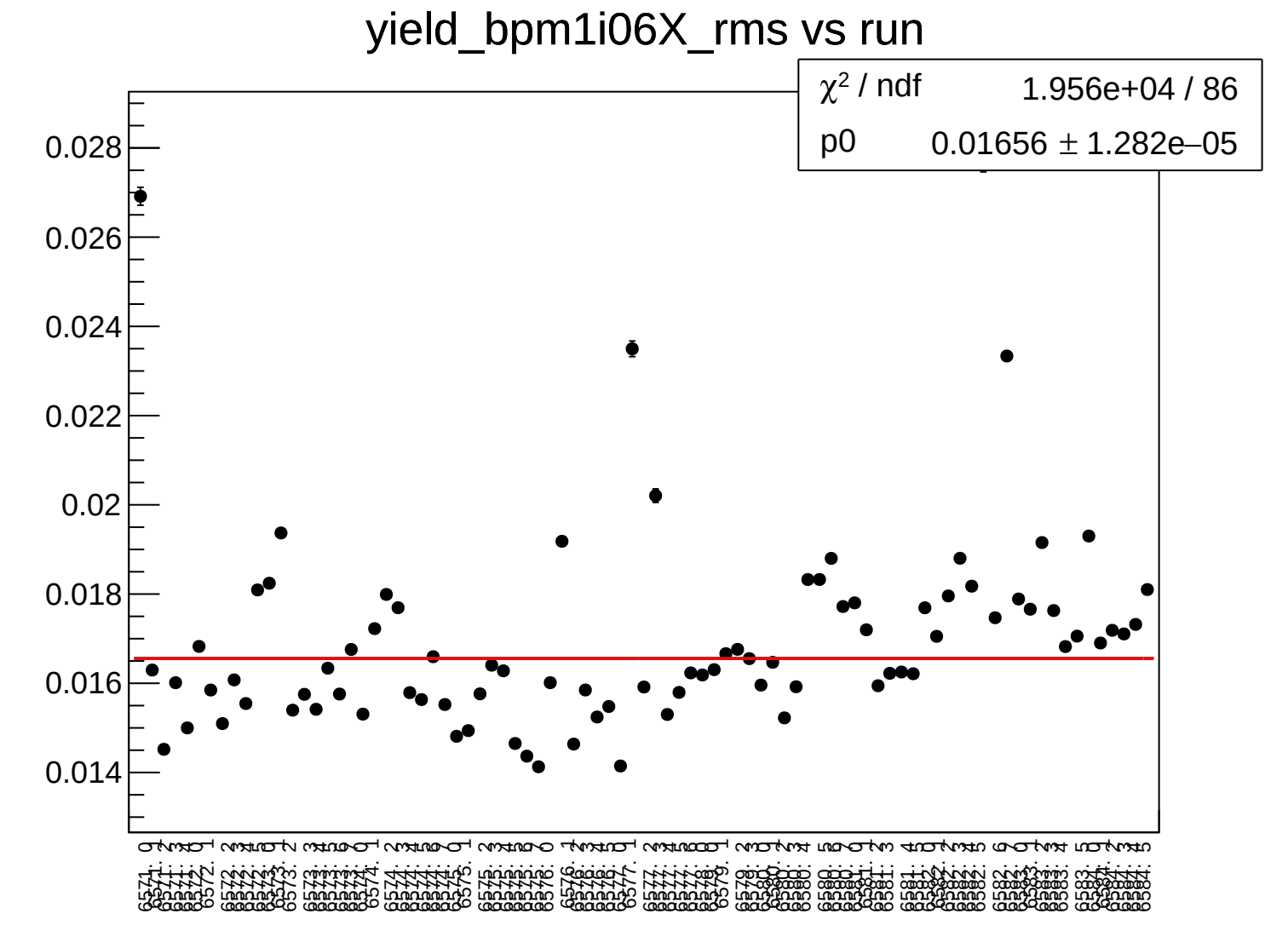

yield_bpm1i04Y_mean vs run
χ² / ndf 2.791e+07 / 86
p0 2.287 ± 8.166e−06
2.38
2.36
2.34
2.32
2.3
2.28
2.26
2.24
pull
Entries 87
Mean 831
Std Dev 0
1500
1000
500
0
−500

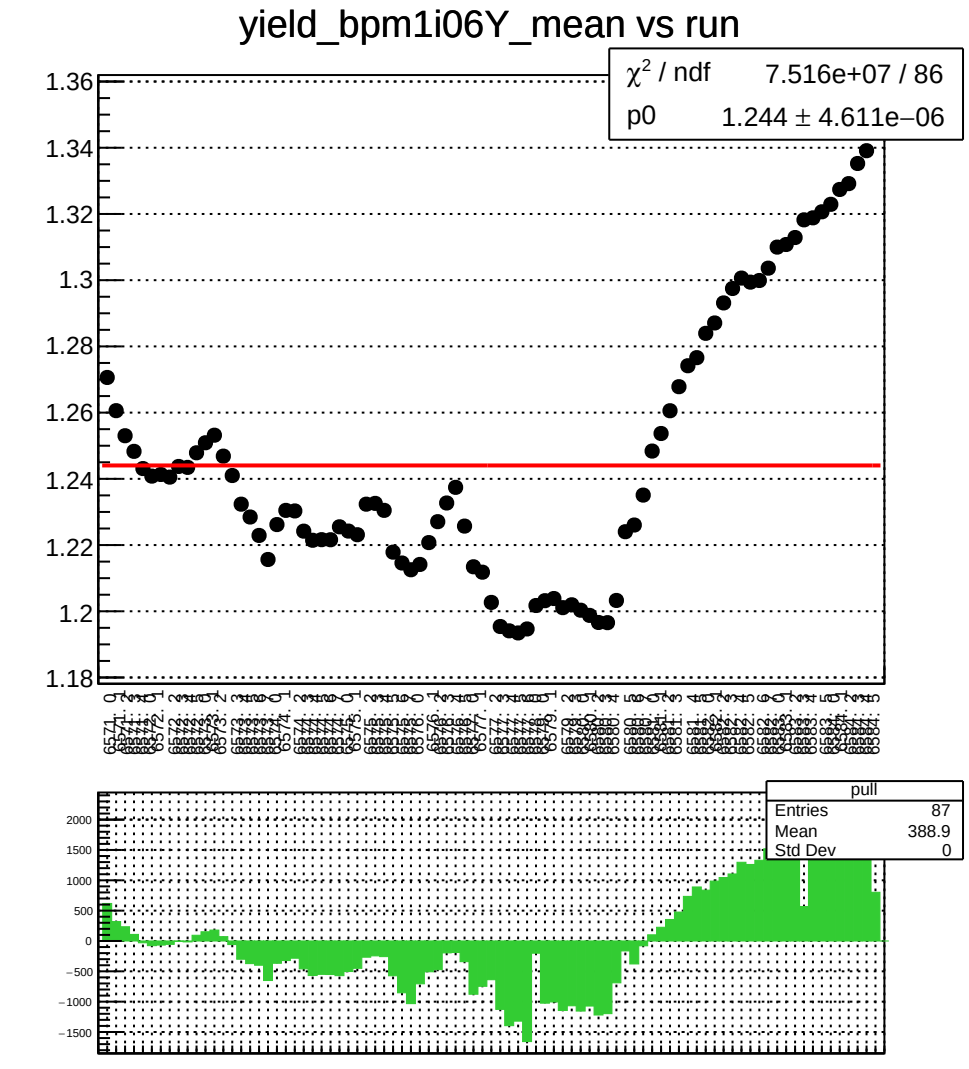

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

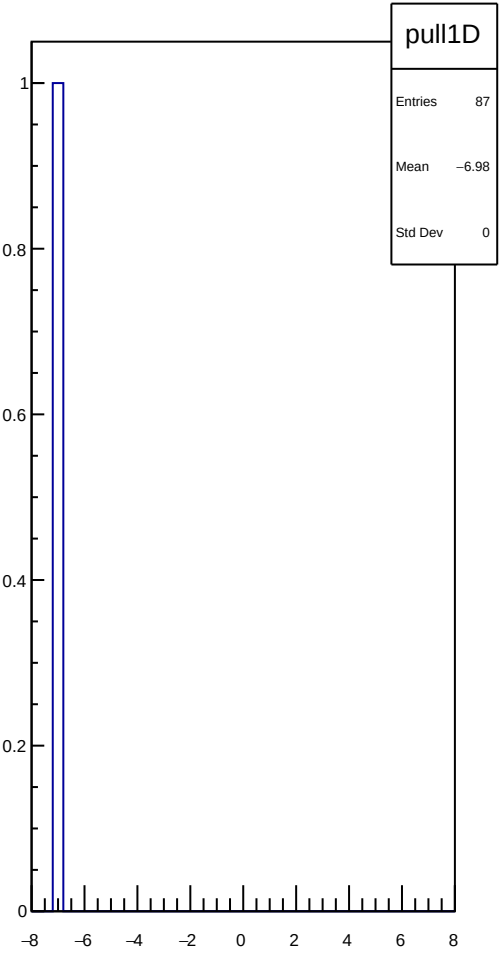
yield_bpm1i04Y_rms vs run

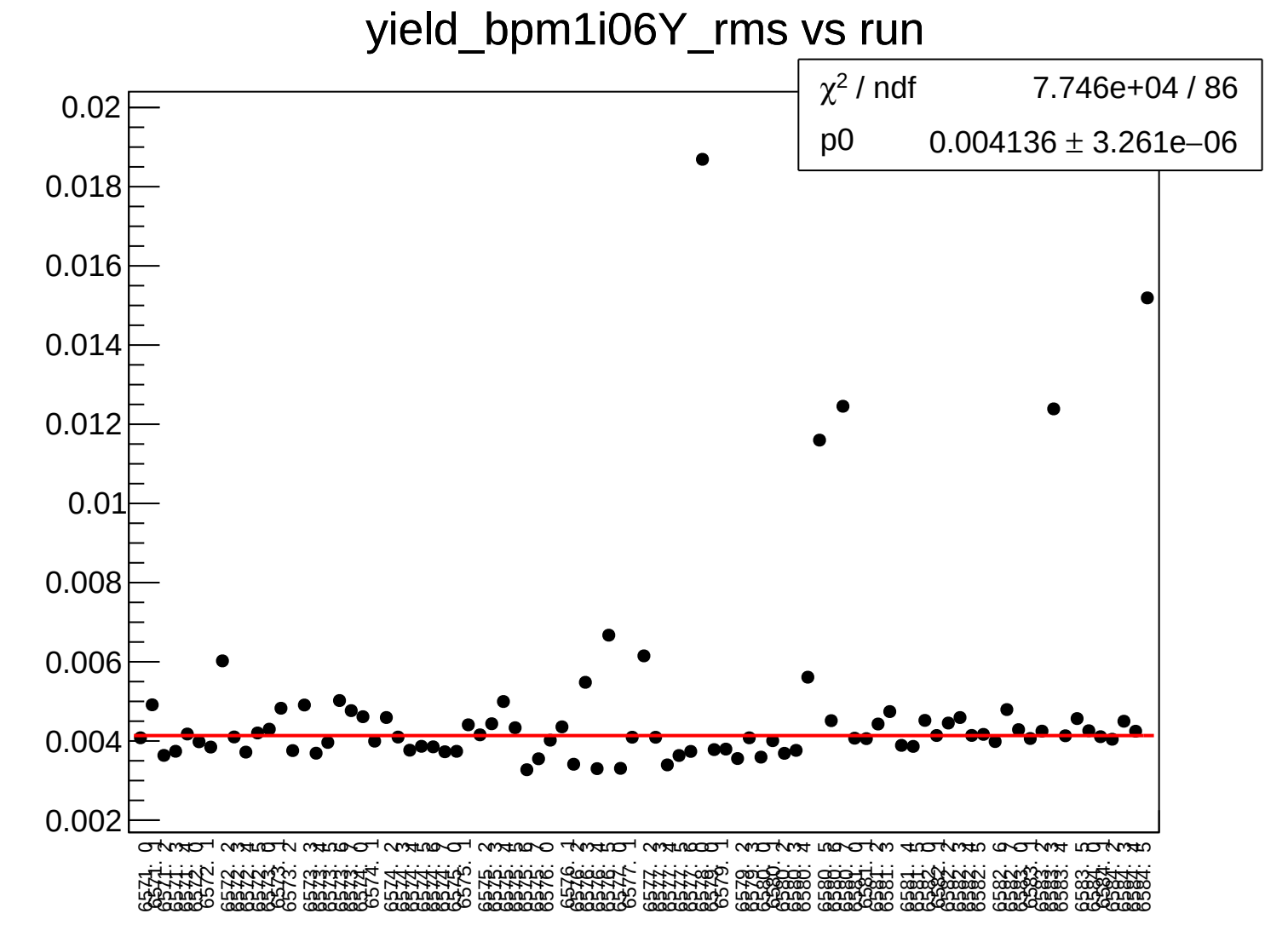


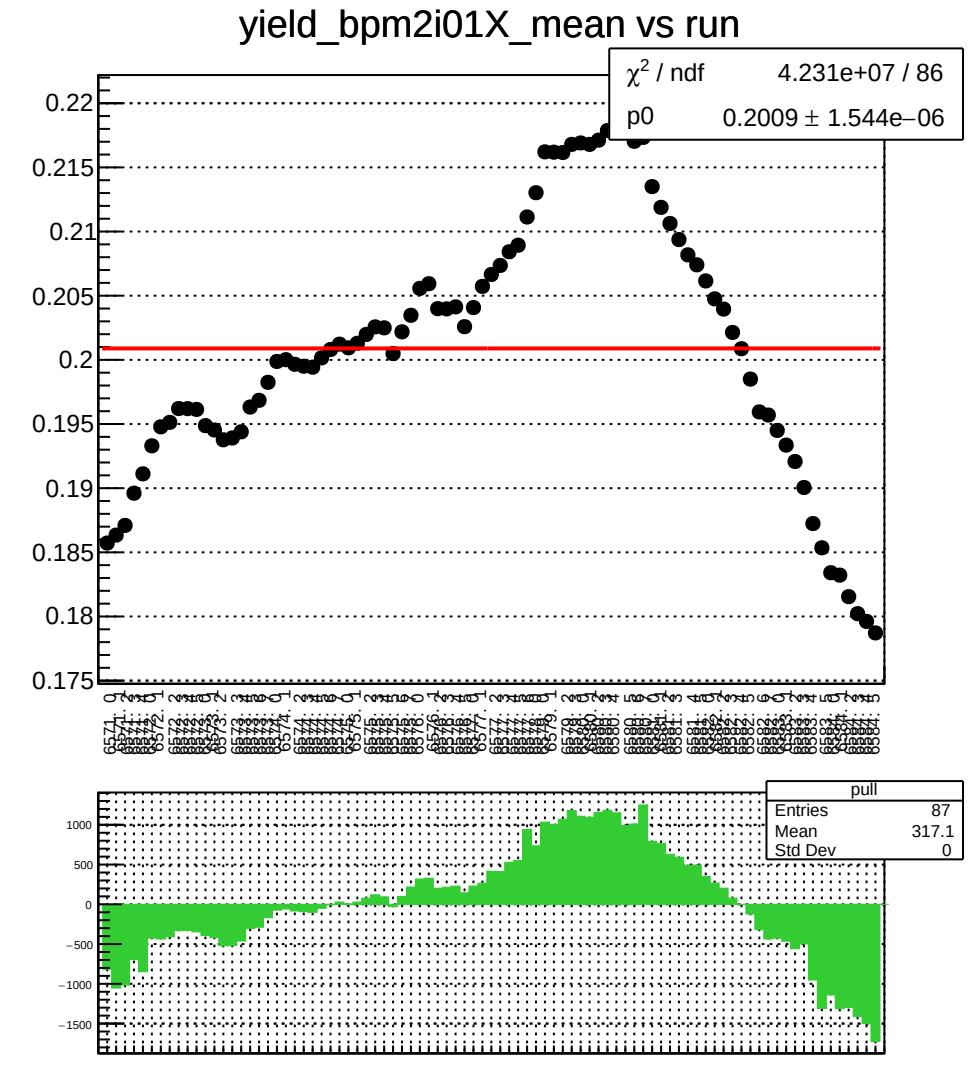

yield_bpm1i06X_mean vs run
χ² / ndf 6.253e+06 / 86
p0 0.3386 ± 1.814e−05
pull
Entries 87
Mean 220.6
Std Dev 0
pull1D
Entries 87
Mean −0.1686
Std Dev 0

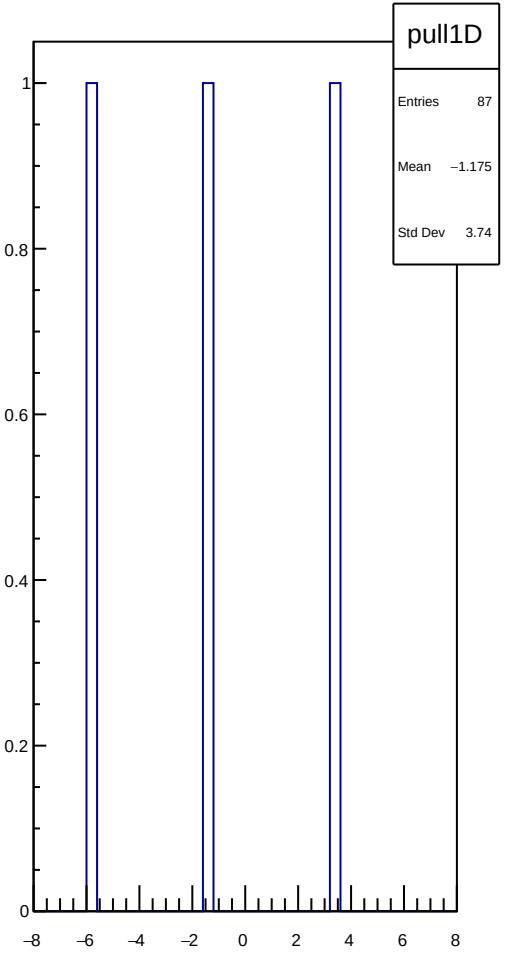

yield_bpm1i06X_rms vs run
χ² / ndf 1.956e+04 / 86
p0 0.01656 ± 1.282e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

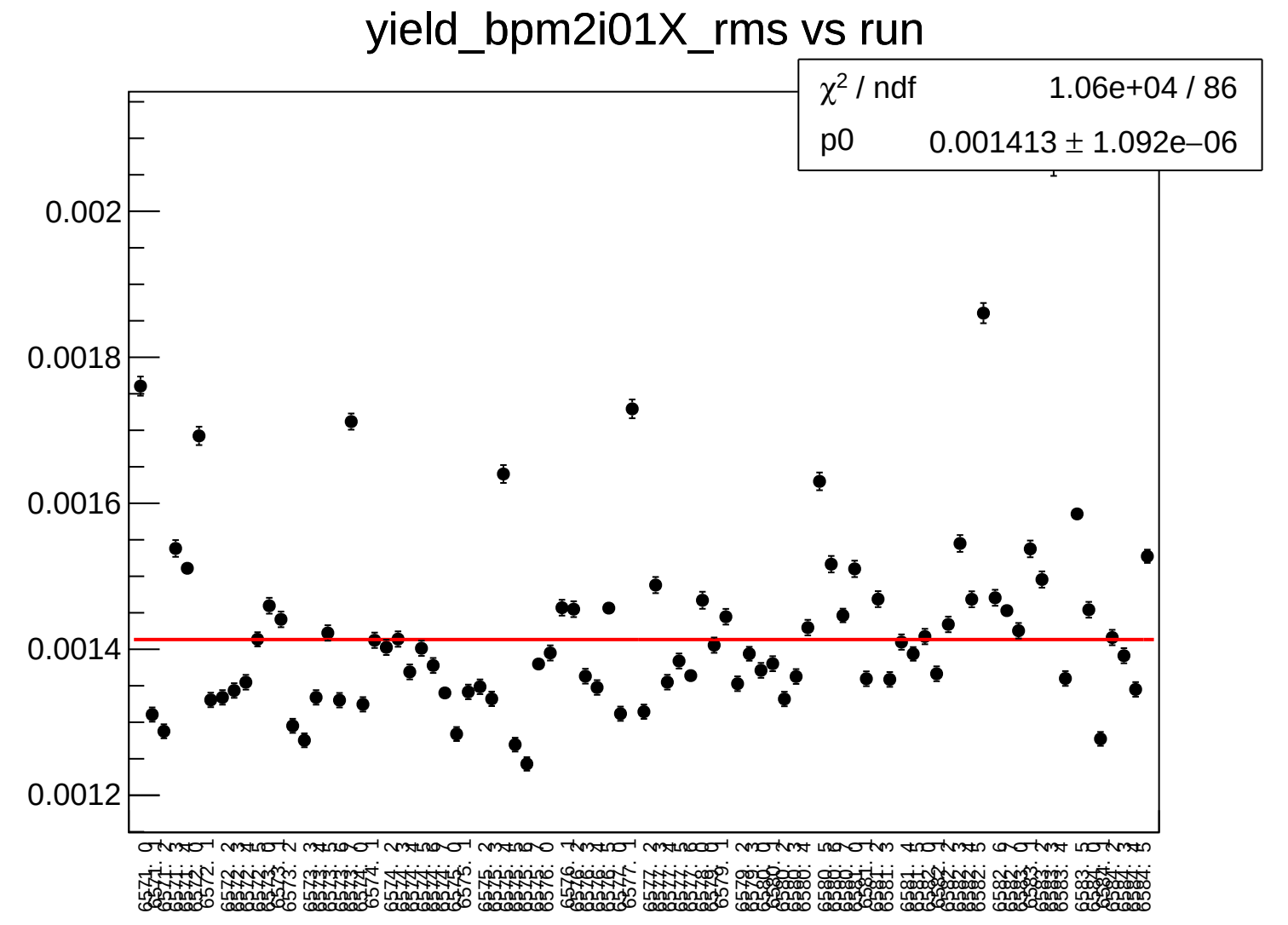

yield_bpm1i06Y_mean vs run
χ² / ndf 7.516e+07 / 86
p0 1.244 ± 4.611e−06
pull
Entries 87
Mean 388.9
Std Dev 0

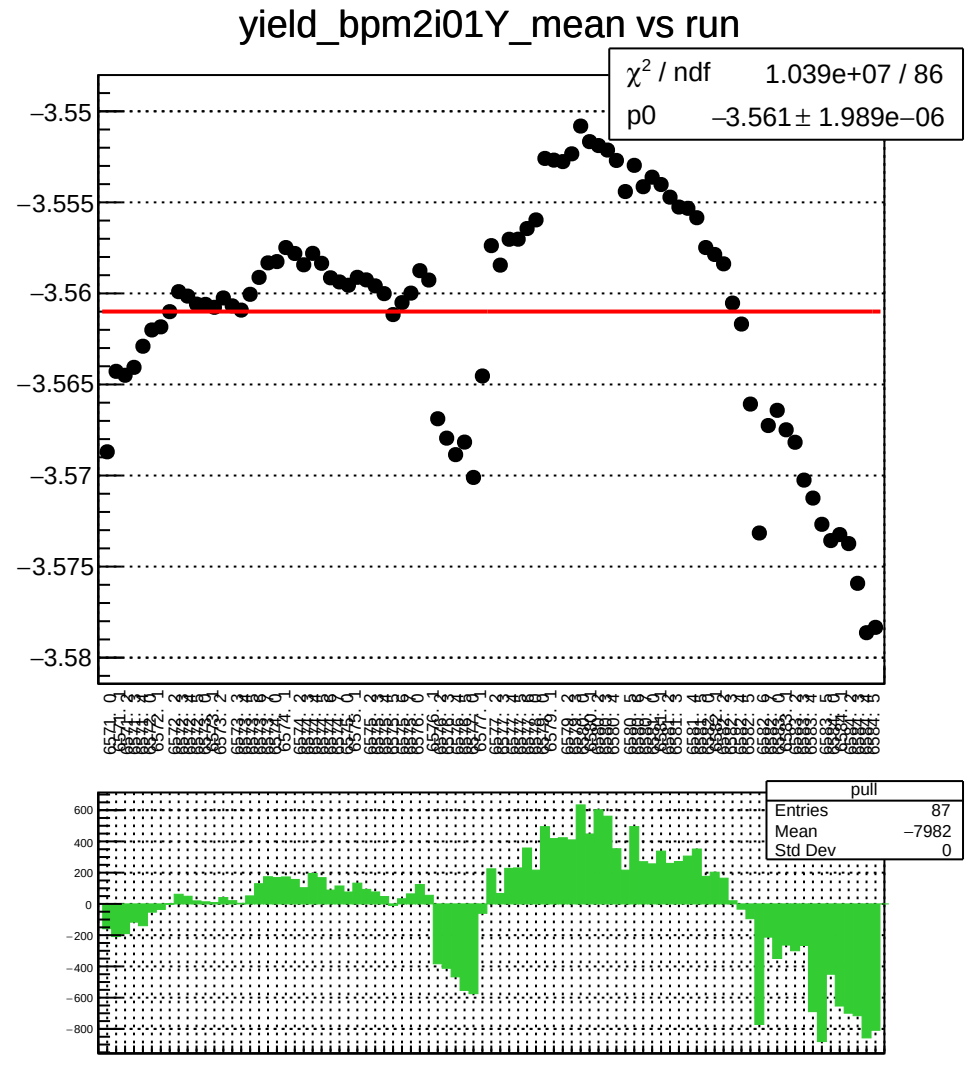

pull1D
Entries 87
Mean −6.98
Std Dev 0

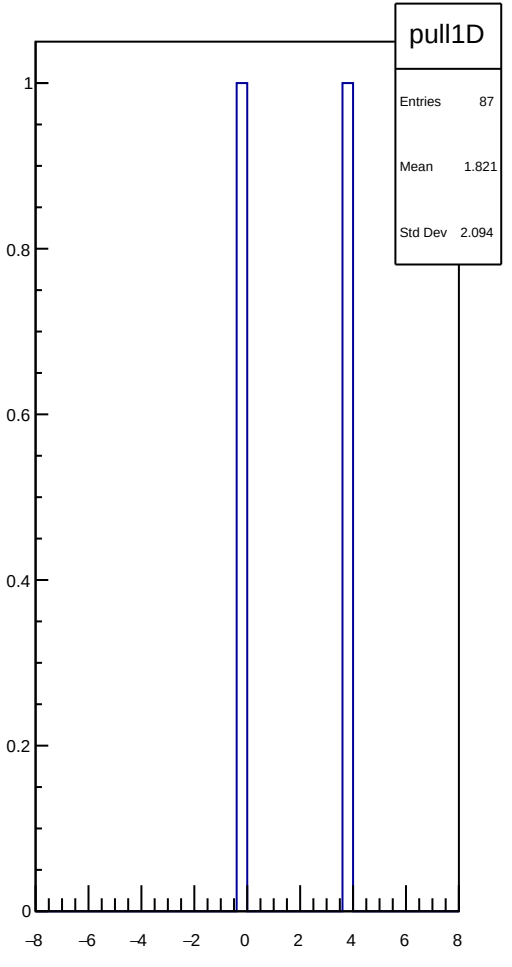

yield_bpm1i06Y_rms vs run
χ² / ndf 7.746e+04 / 86
p0 0.004136 ± 3.261e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

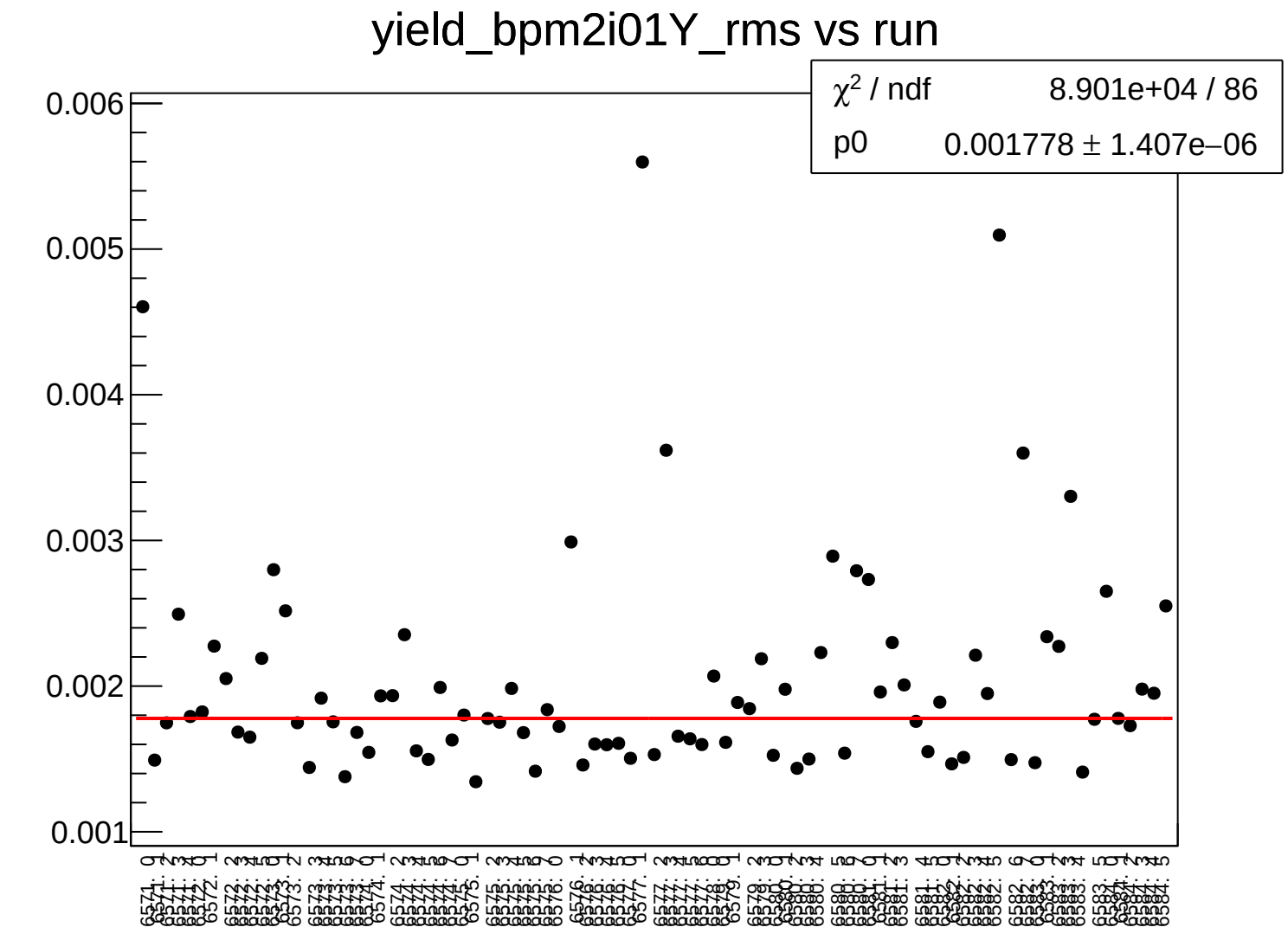

yield_bpm2i01X_mean vs run
χ² / ndf 4.231e+07 / 86
p0 0.2009 ± 1.544e−06
pull
Entries 87
Mean 317.1
Std Dev 0

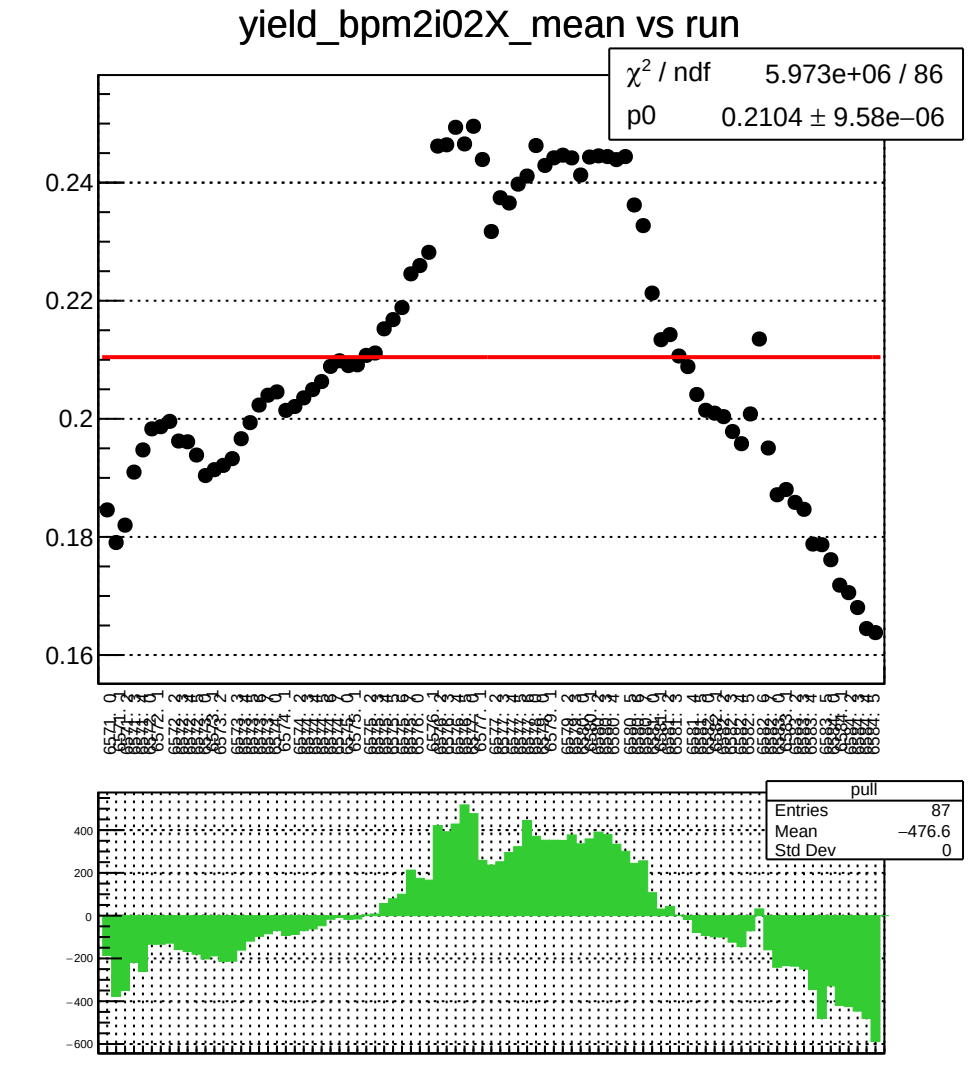

pull1D
Entries 87
Mean −1.175
Std Dev 3.74

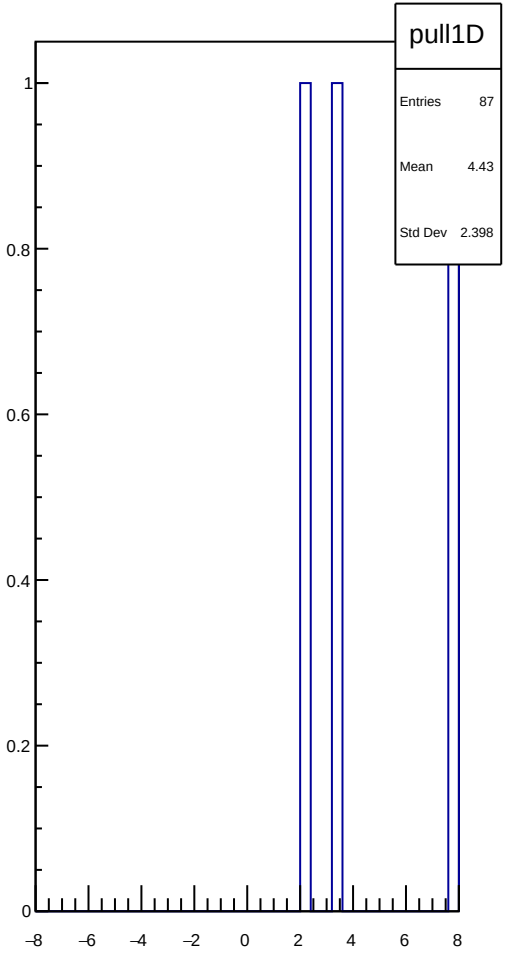

yield_bpm2i01X_rms vs run
χ² / ndf 1.06e+04 / 86
p0 0.001413 ± 1.092e−06
0.002
0.0018
0.0016
0.0014
0.0012


yield_bpm2i01Y_mean vs run
χ² / ndf 1.039e+07 / 86
p0 −3.561 ± 1.989e−06
−3.55
−3.555
−3.56
−3.565
−3.57
−3.575
−3.58
pull
Entries 87
Mean −7982
Std Dev 0
600
400
200
0
−200
−400
−600
−800

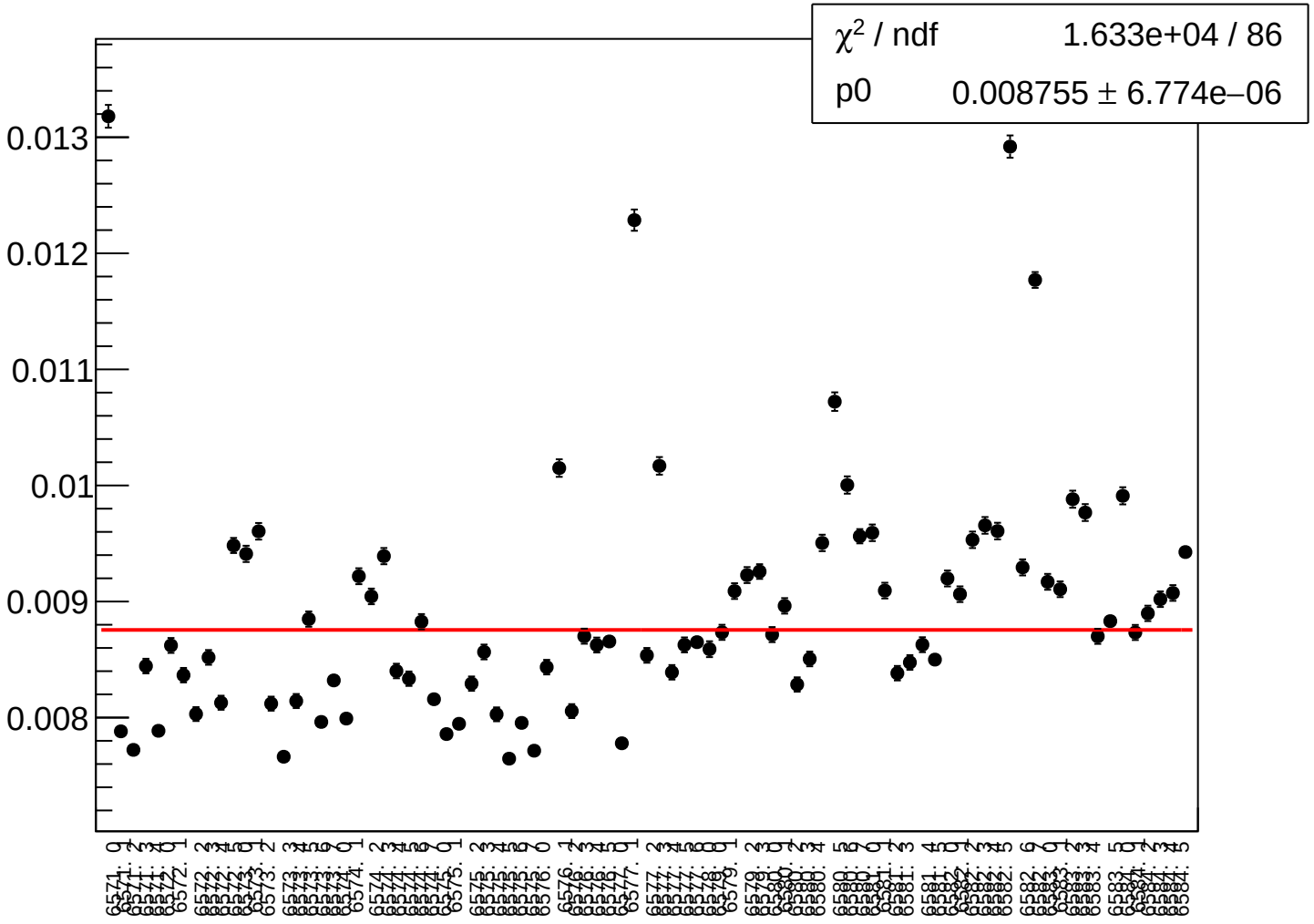

pull1D
Entries 87
Mean 1.821
Std Dev 2.094
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

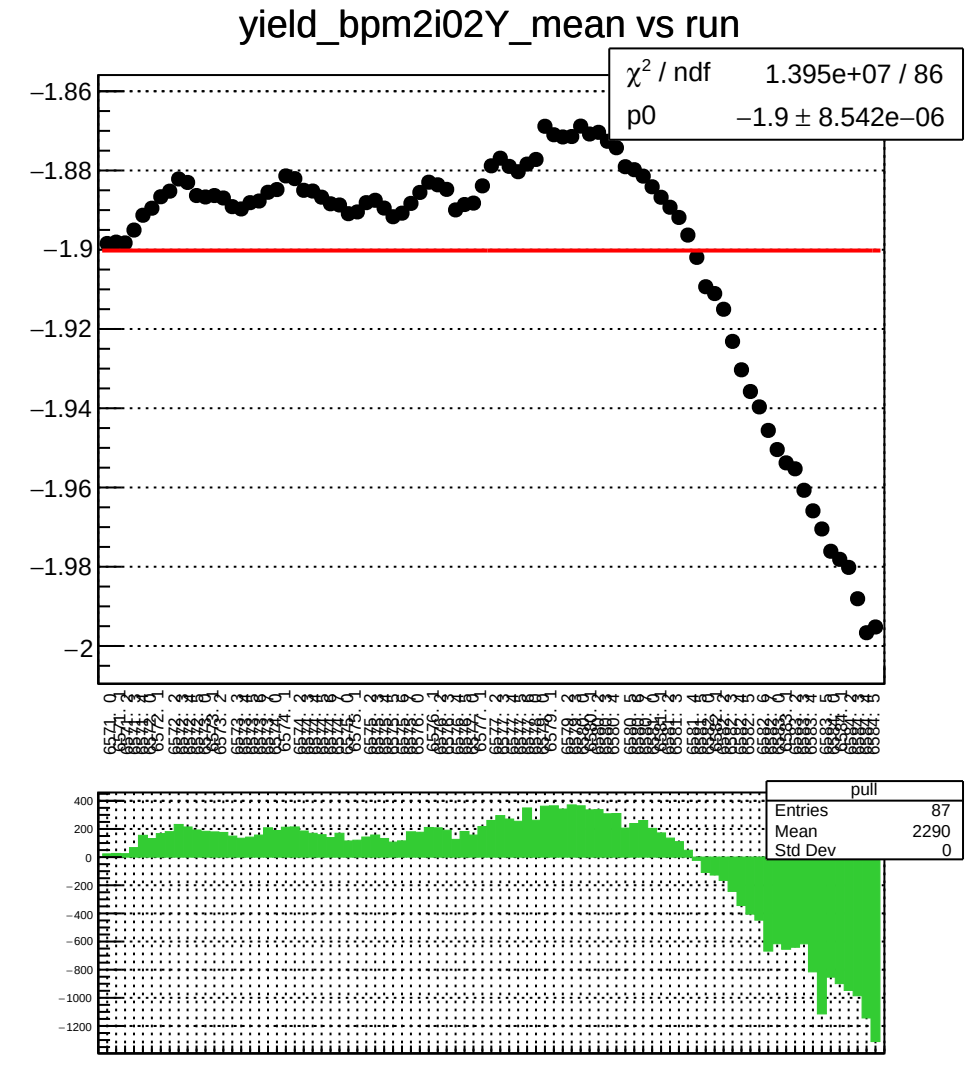

yield_bpm2i01Y_rms vs run
χ² / ndf 8.901e+04 / 86
p0 0.001778 ± 1.407e−06
0.006
0.005
0.004
0.003
0.002
0.001

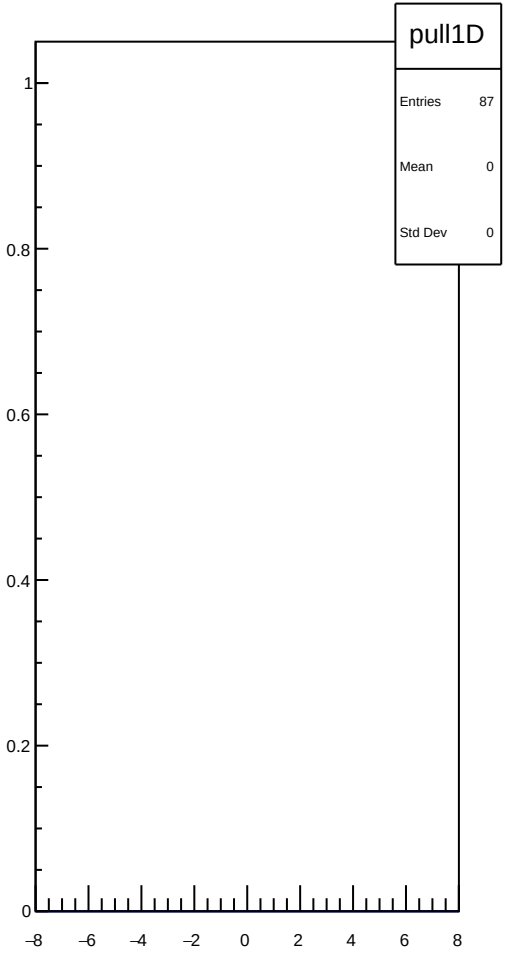

yield_bpm2i02X_mean vs run
χ² / ndf 5.973e+06 / 86
p0 0.2104 ± 9.58e−06
0.24
0.22
0.2
0.18
0.16
pull
Entries 87
Mean −476.6
Std Dev 0
400
200
0
−200
−400
−600

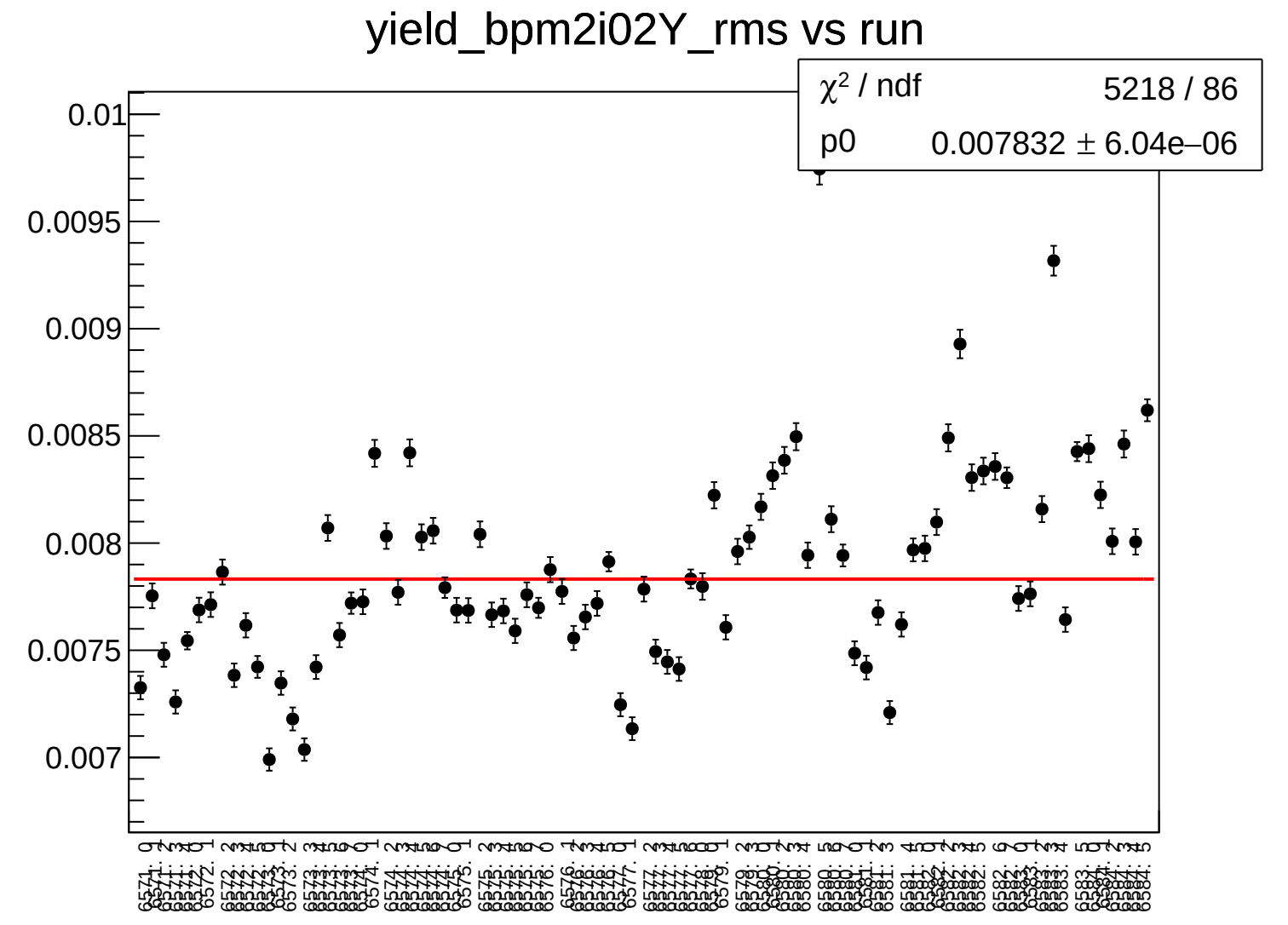

pull1D
Entries 87
Mean 4.43
Std Dev 2.398
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

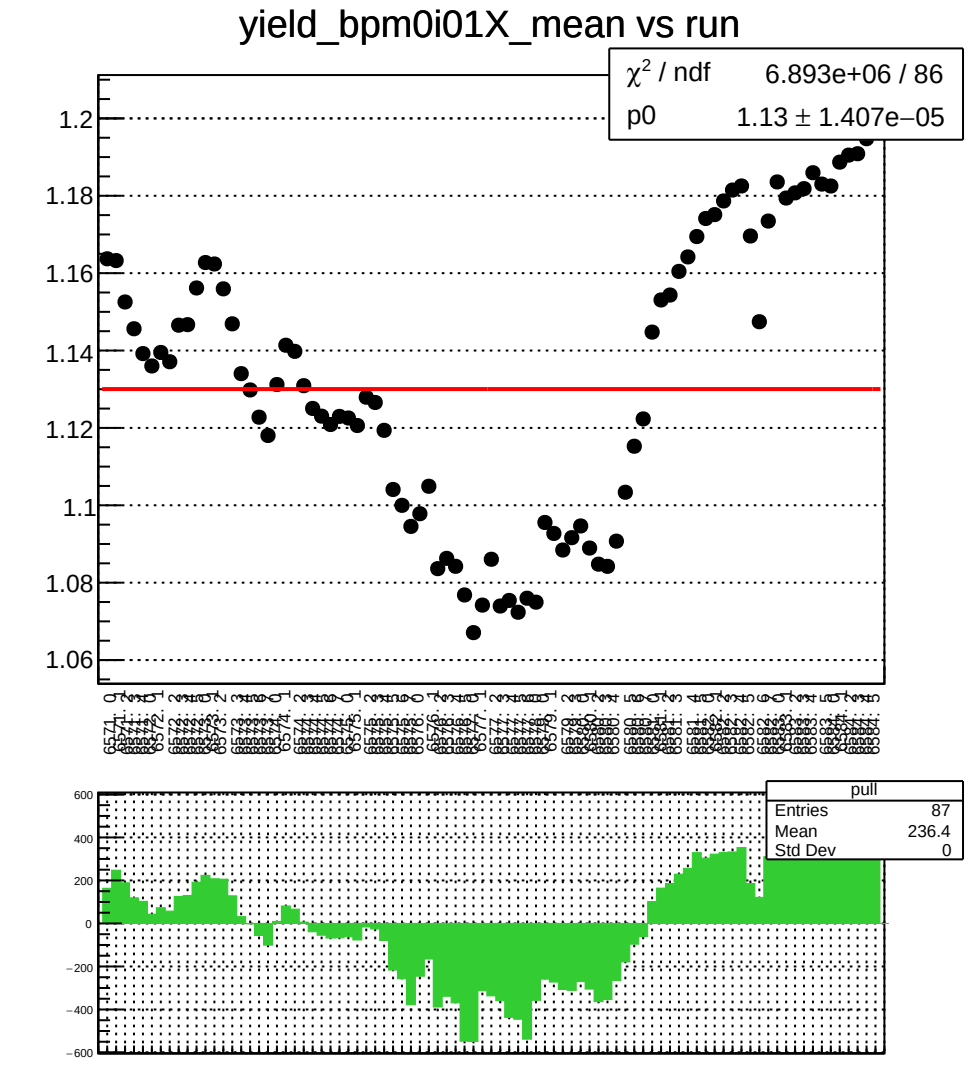
yield_bpm2i02X_rms vs run

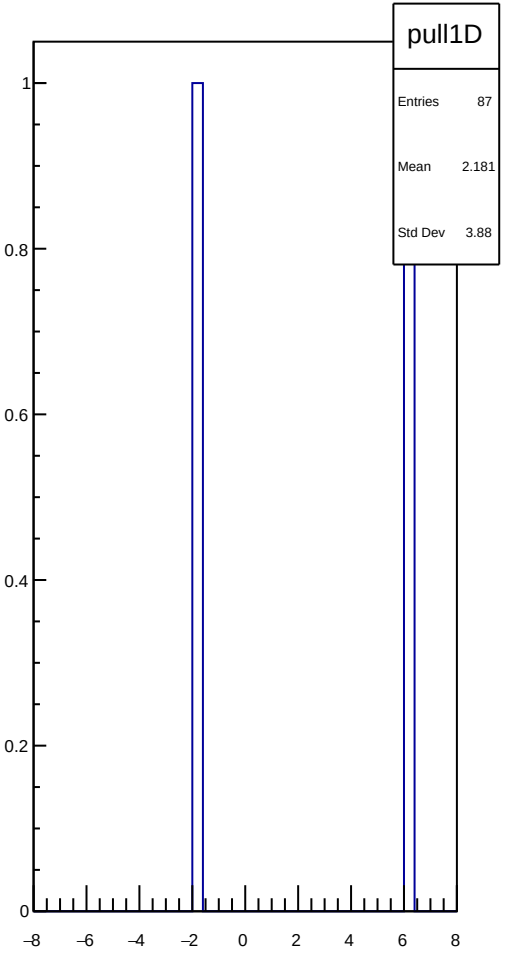


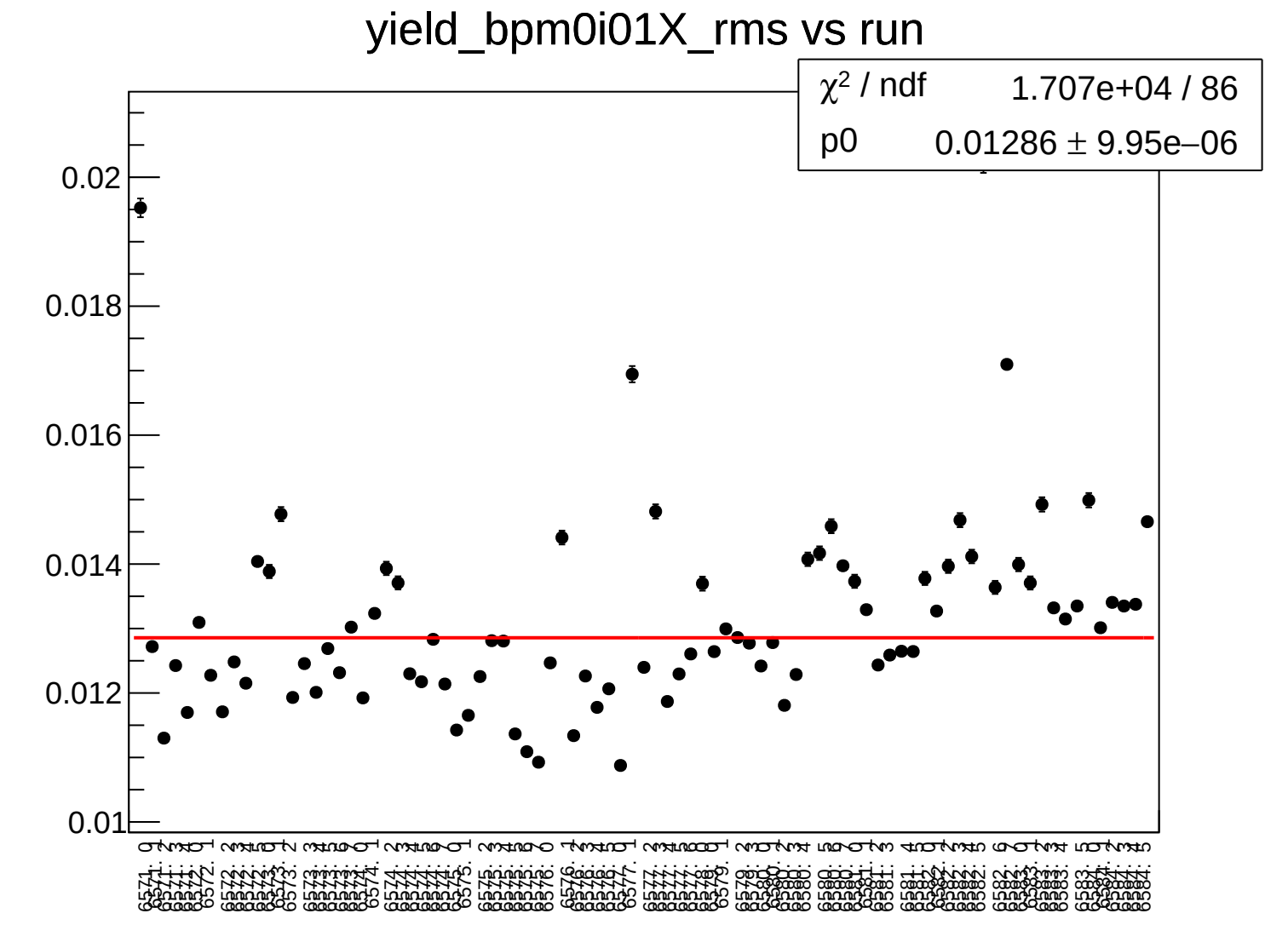

yield_bpm2i02Y_mean vs run
χ² / ndf 1.395e+07 / 86
p0 −1.9 ± 8.542e−06
−1.86
−1.88
−1.9
−1.92
−1.94
−1.96
−1.98
−2
pull
Entries 87
Mean 2290
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

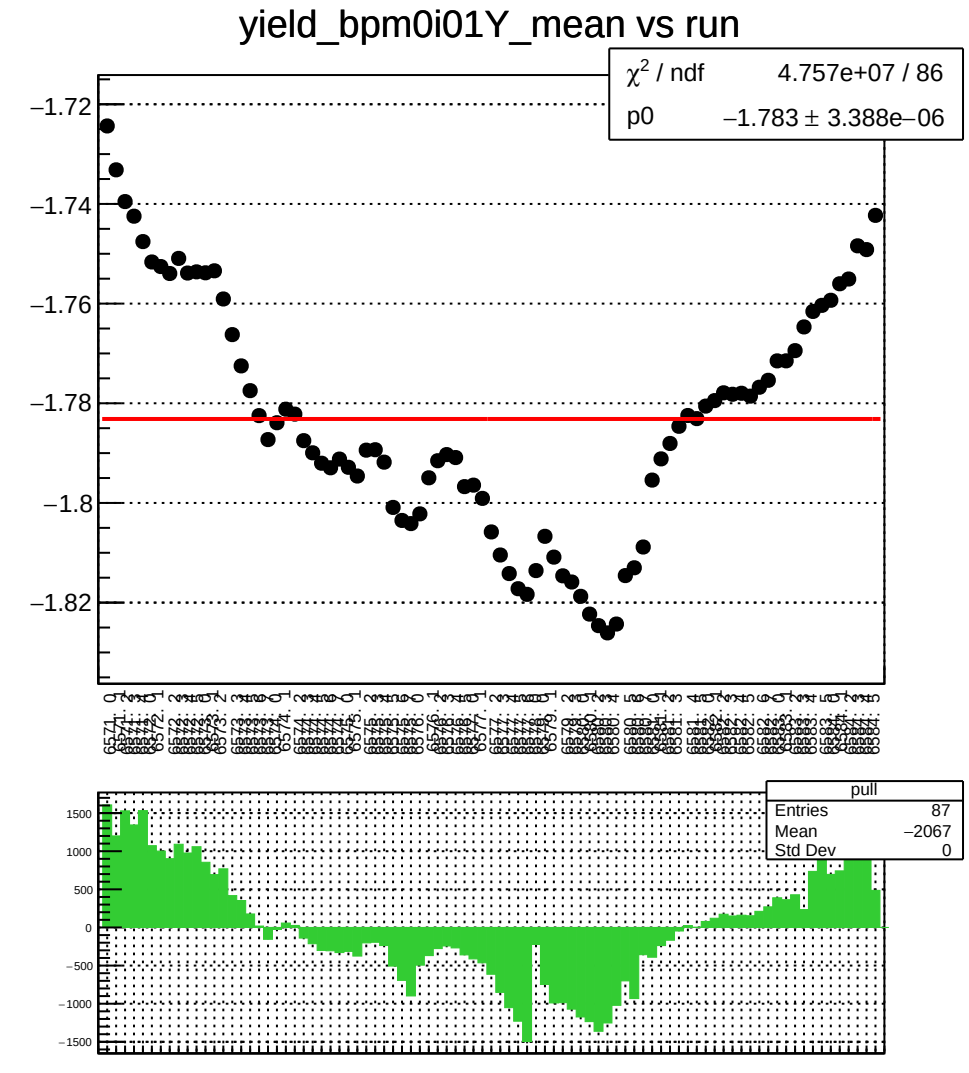

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

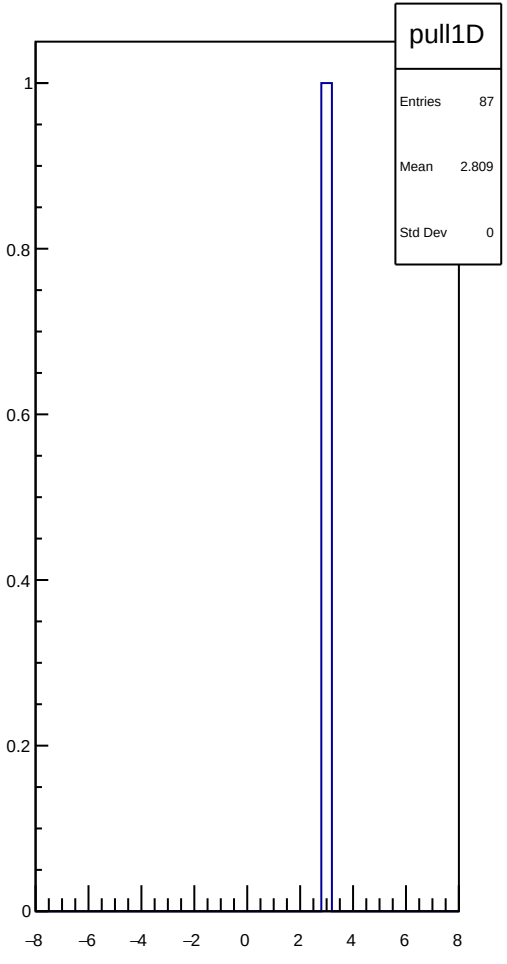

yield_bpm2i02Y_rms vs run
χ² / ndf 5218 / 86
p0 0.007832 ± 6.04e–06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

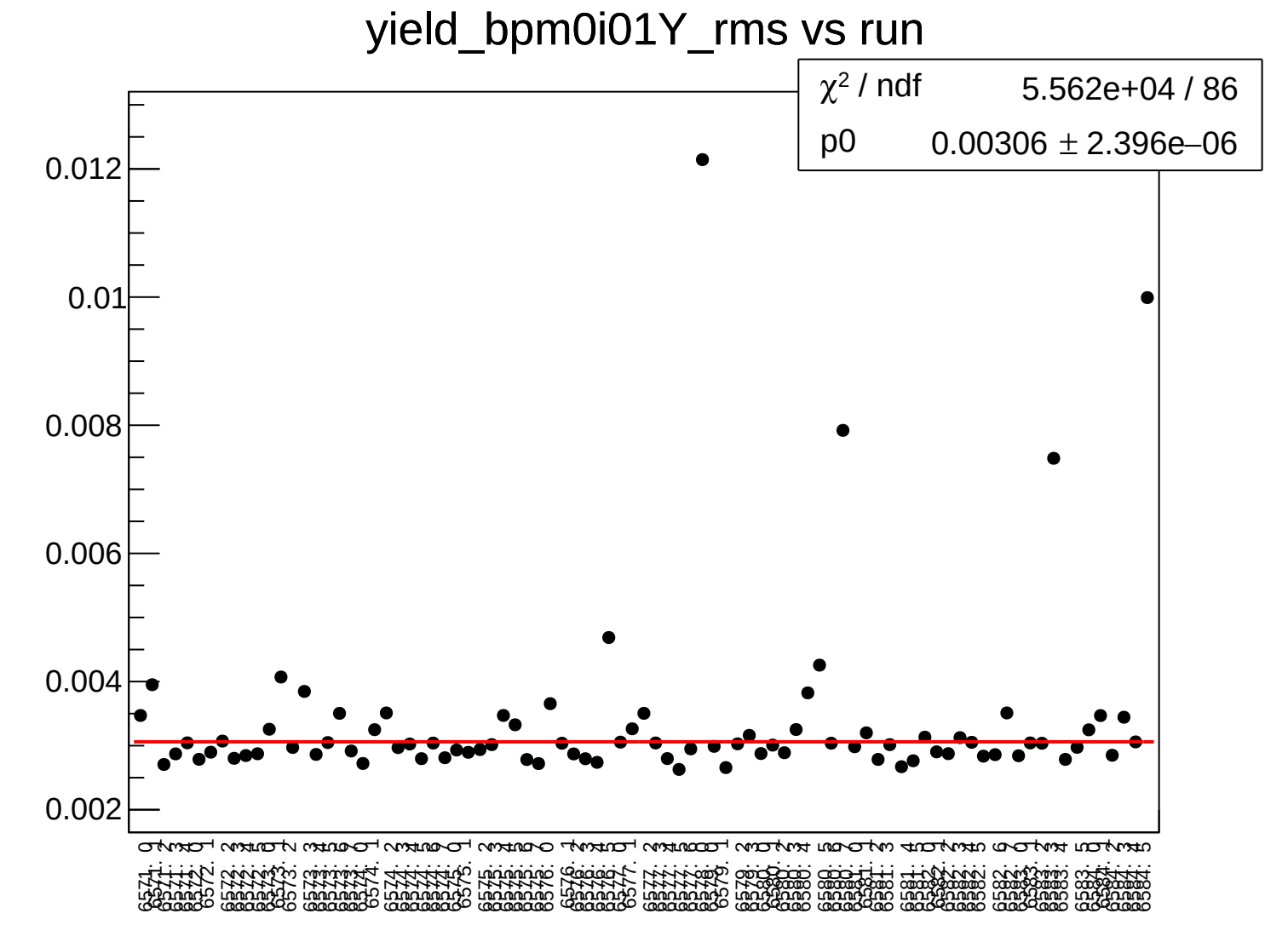

yield_bpm0i01X_mean vs run
χ² / ndf 6.893e+06 / 86
p0 1.13 ± 1.407e−05
1.2
1.18
1.16
1.14
1.12
1.1
1.08
1.06
pull
Entries 87
Mean 236.4
Std Dev 0
600
400
200
0
−200
−400
−600

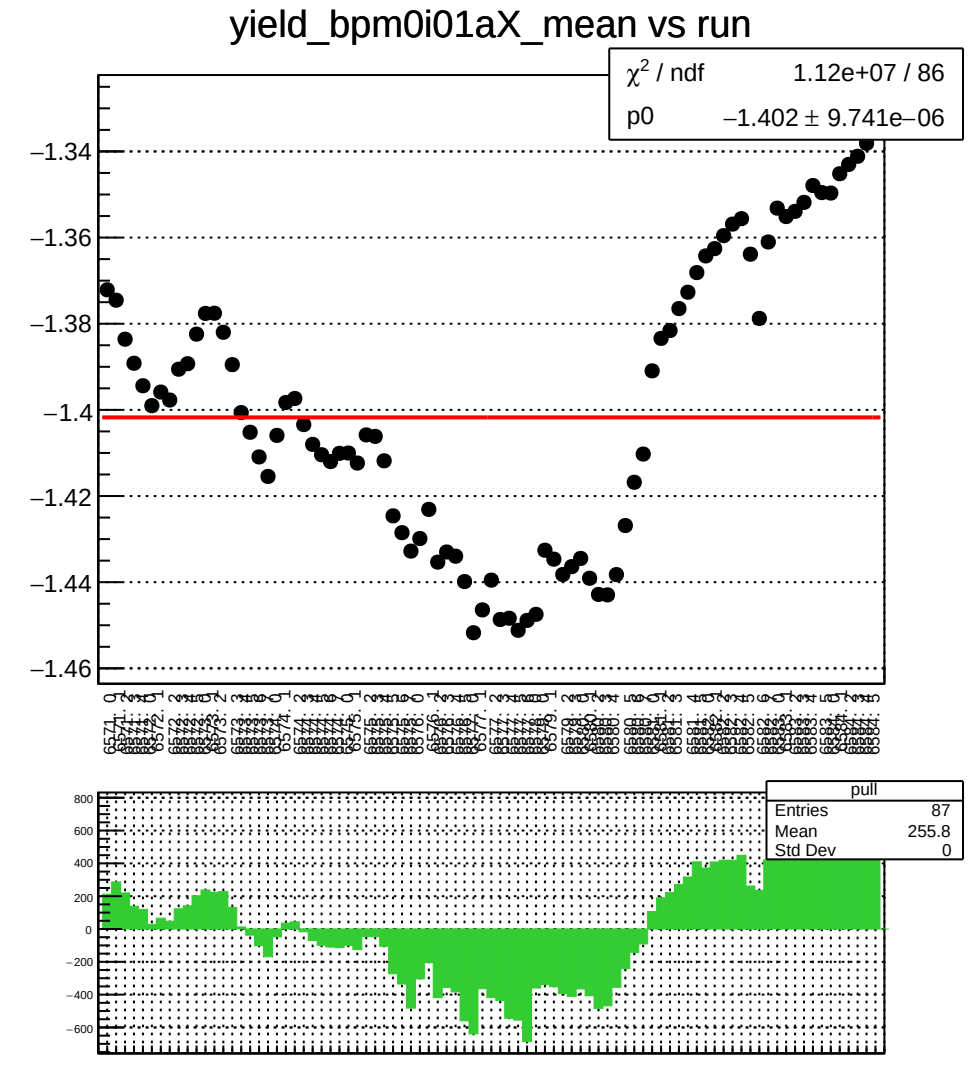

pull1D
Entries 87
Mean 2.181
Std Dev 3.88
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

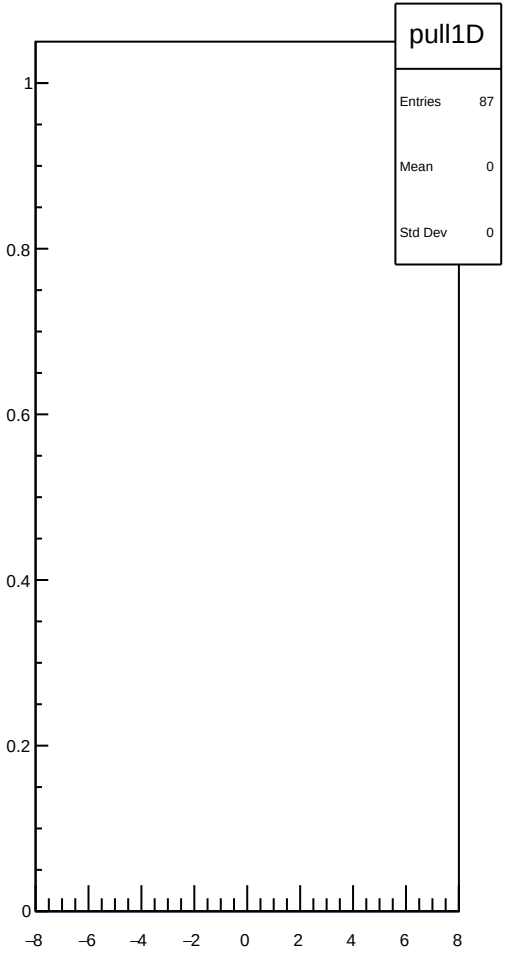

yield_bpm0i01X_rms vs run
χ² / ndf 1.707e+04 / 86
p0 0.01286 ± 9.95e−06
0.02
0.018
0.016
0.014
0.012
0.01

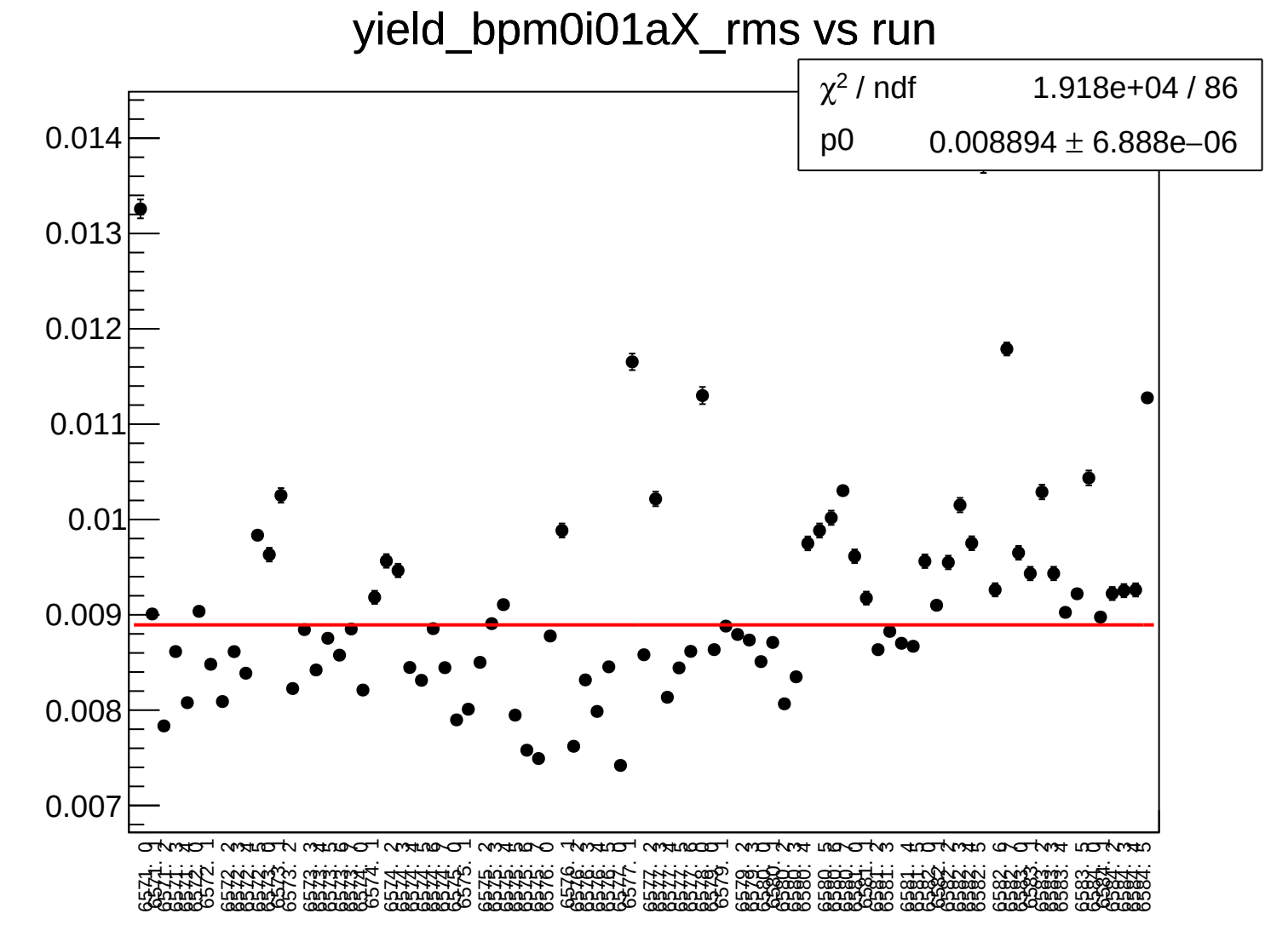

yield_bpm0i01Y_mean vs run
χ² / ndf 4.757e+07 / 86
p0 −1.783 ± 3.388e−06
−1.72
−1.74
−1.76
−1.78
−1.8
−1.82
pull
Entries 87
Mean −2067
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

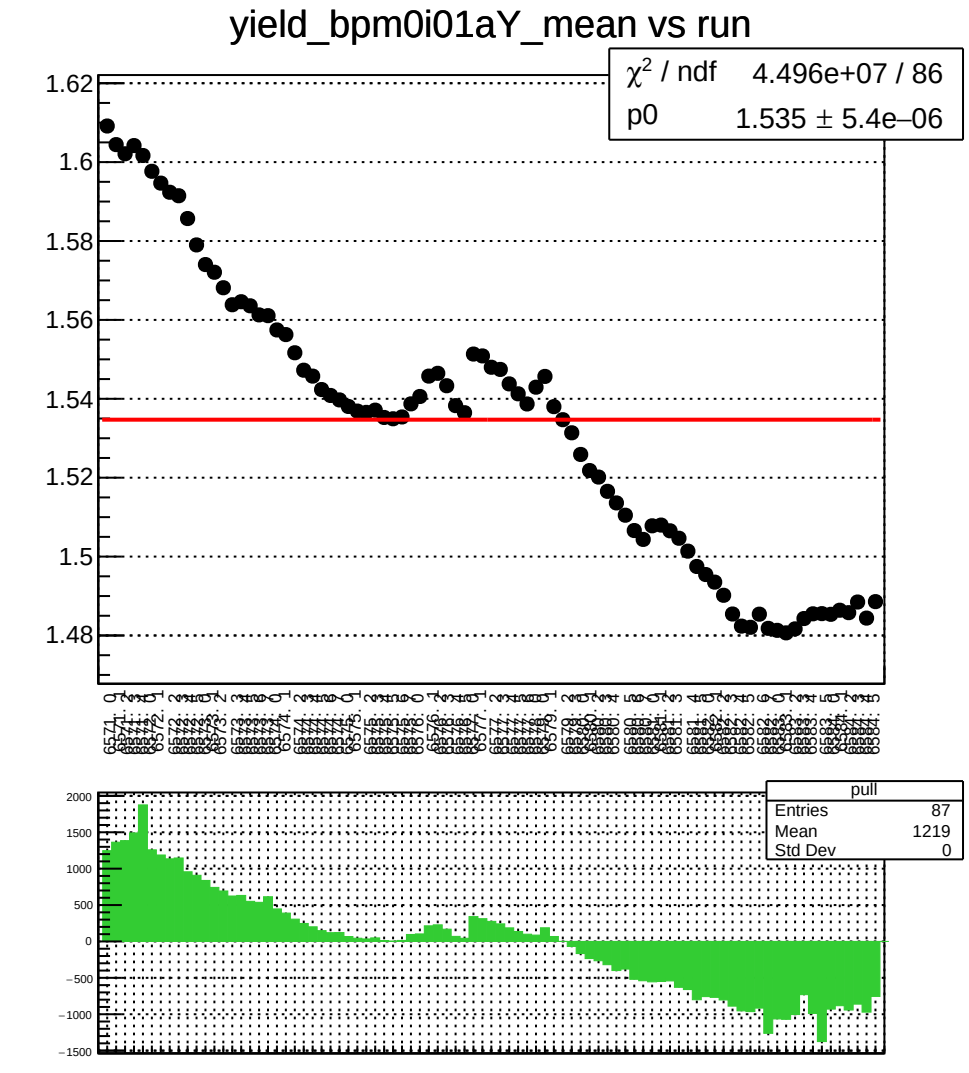

pull1D
Entries 87
Mean 2.809
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

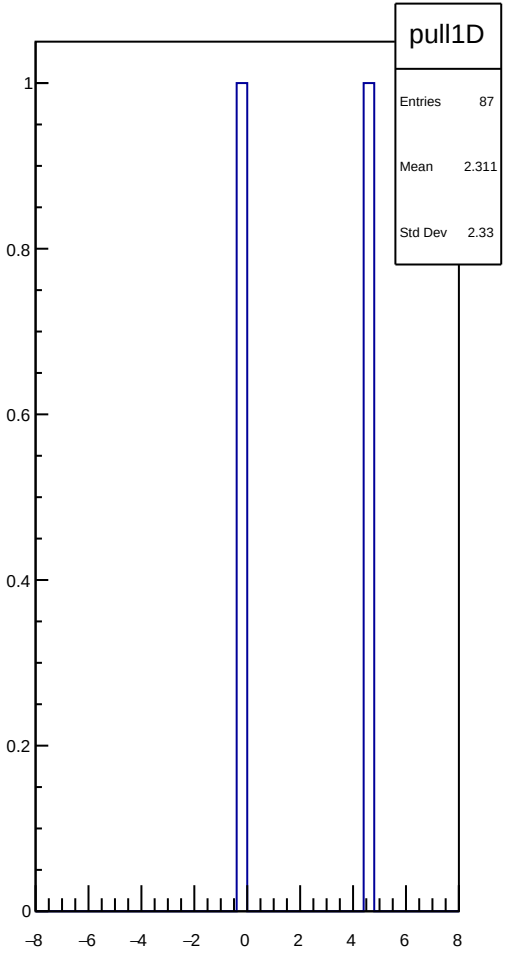

yield_bpm0i01Y_rms vs run
χ² / ndf 5.562e+04 / 86
p0 0.00306 ± 2.396e–06
0.012
0.01
0.008
0.006
0.004
0.002

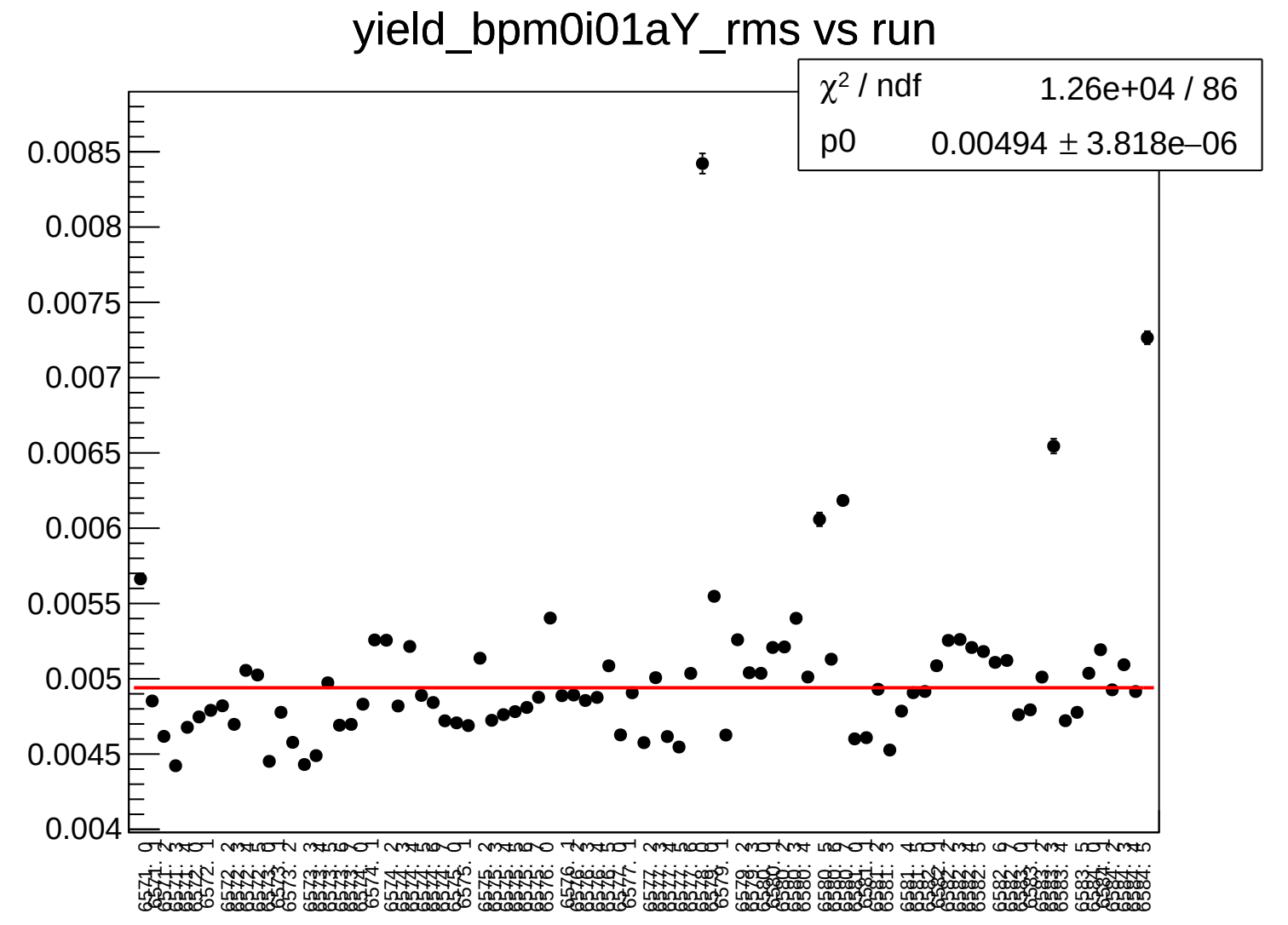

yield_bpm0i01aX_mean vs run
χ² / ndf 1.12e+07 / 86
p0 −1.402 ± 9.741e−06
−1.34
−1.36
−1.38
−1.4
−1.42
−1.44
−1.46
pull
Entries 87
Mean 255.8
Std Dev 0
800
600
400
200
0
−200
−400
−600

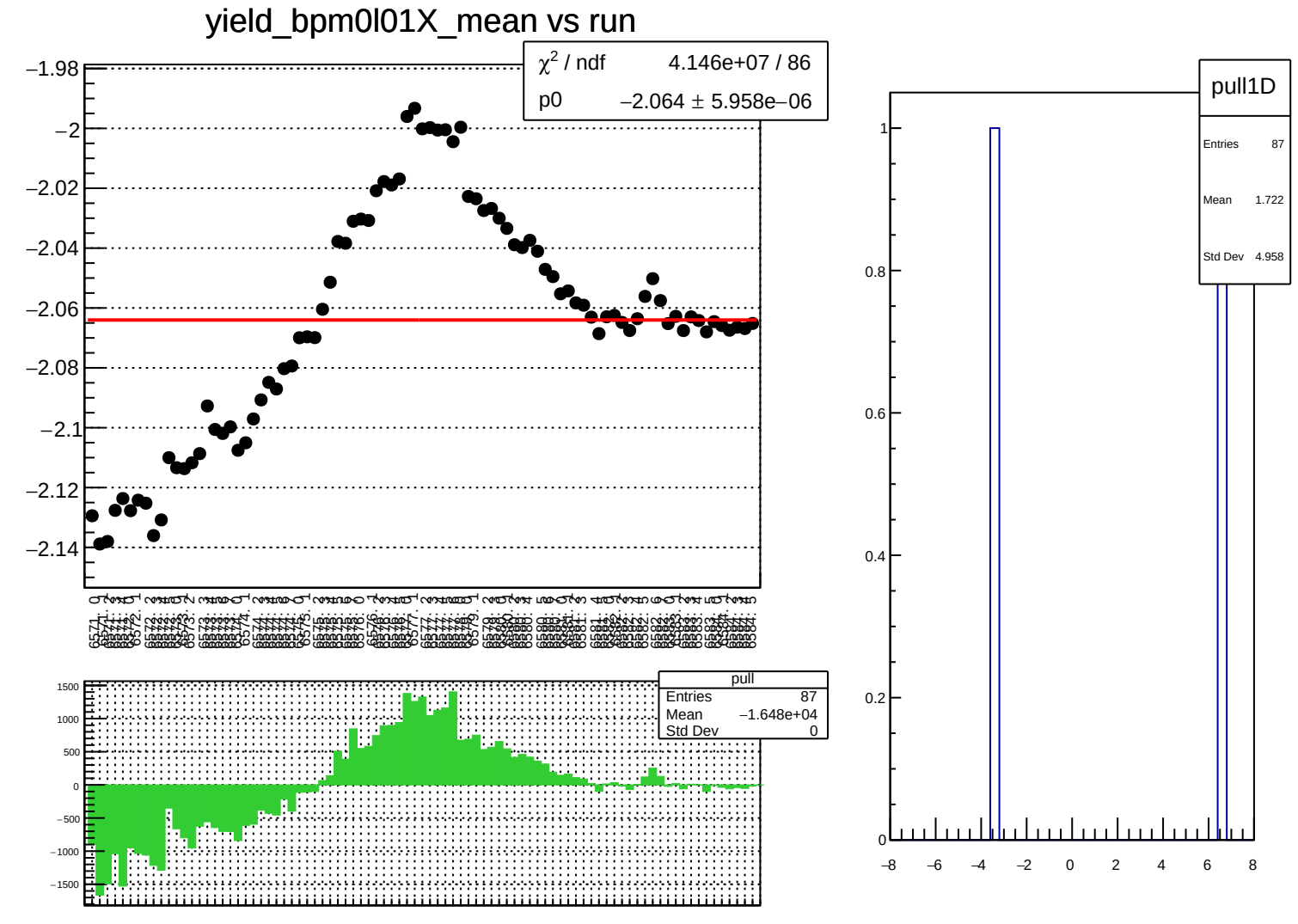

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

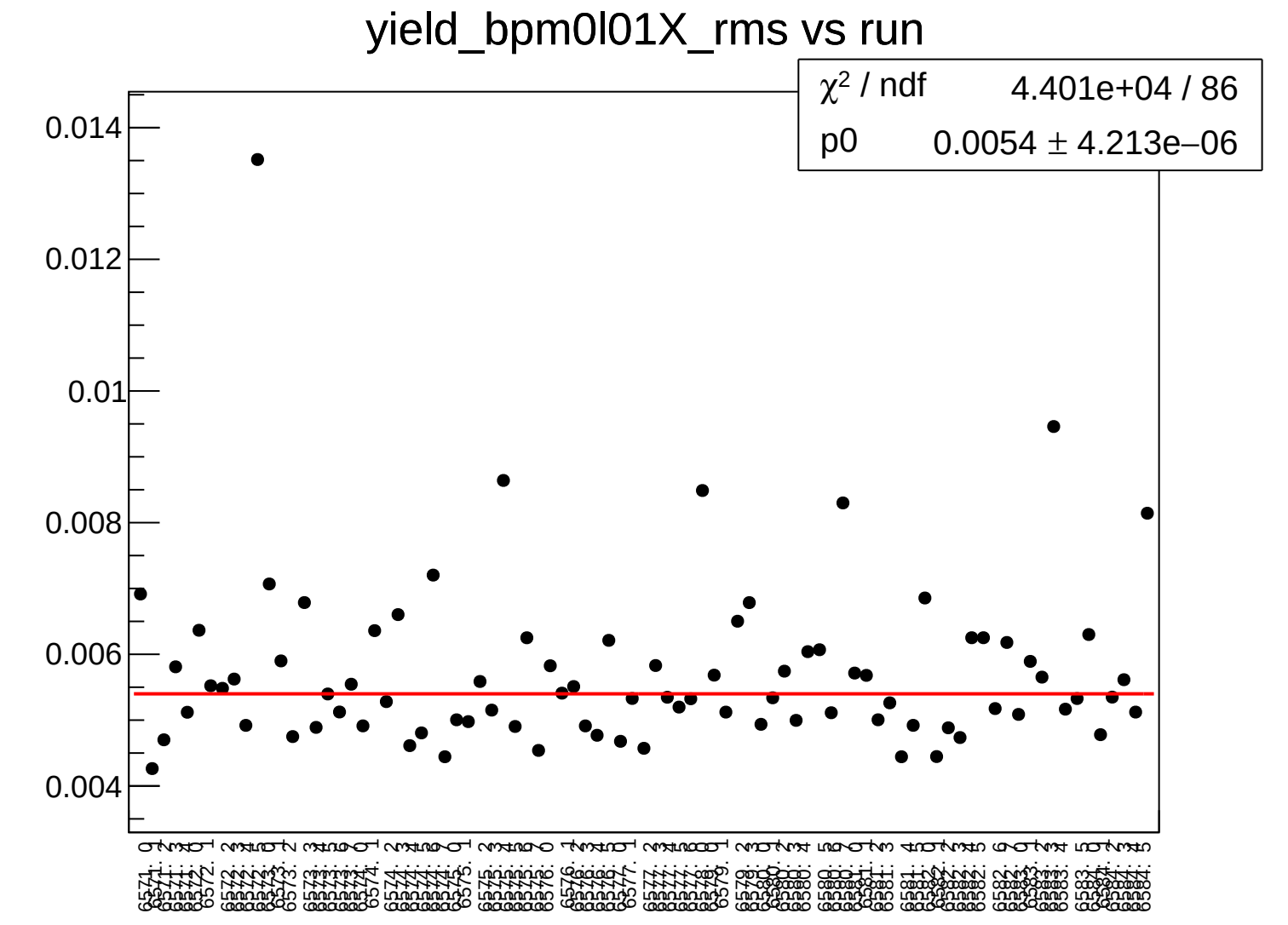

yield_bpm0i01aX_rms vs run
χ² / ndf 1.918e+04 / 86
p0 0.008894 ± 6.888e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

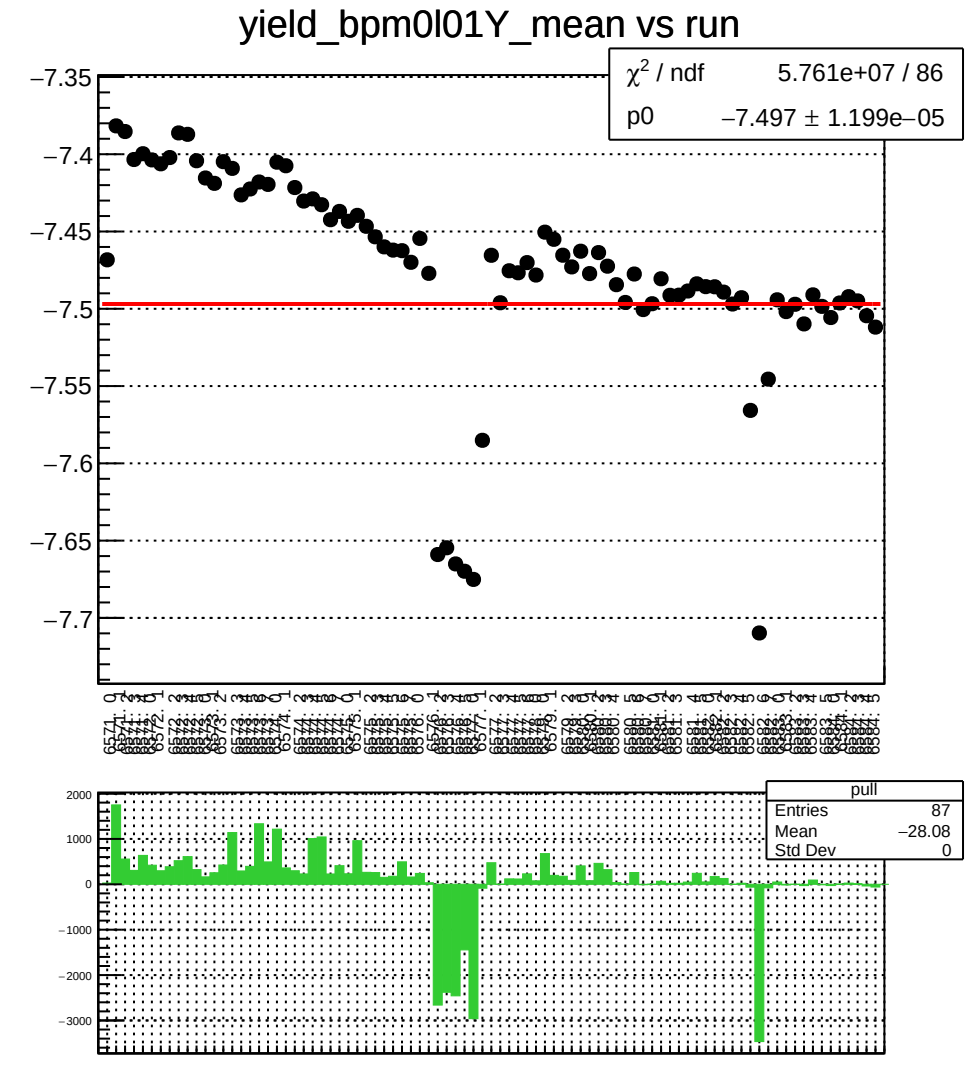

yield_bpm0i01aY_mean vs run
χ² / ndf 4.496e+07 / 86
p0 1.535 ± 5.4e−06
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
pull
Entries 87
Mean 1219
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

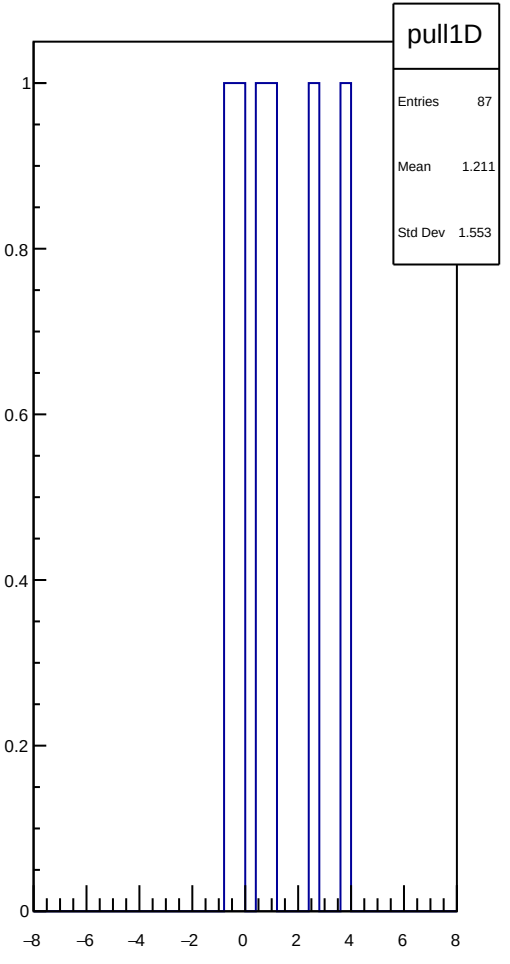

pull1D
Entries 87
Mean 2.311
Std Dev 2.33
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

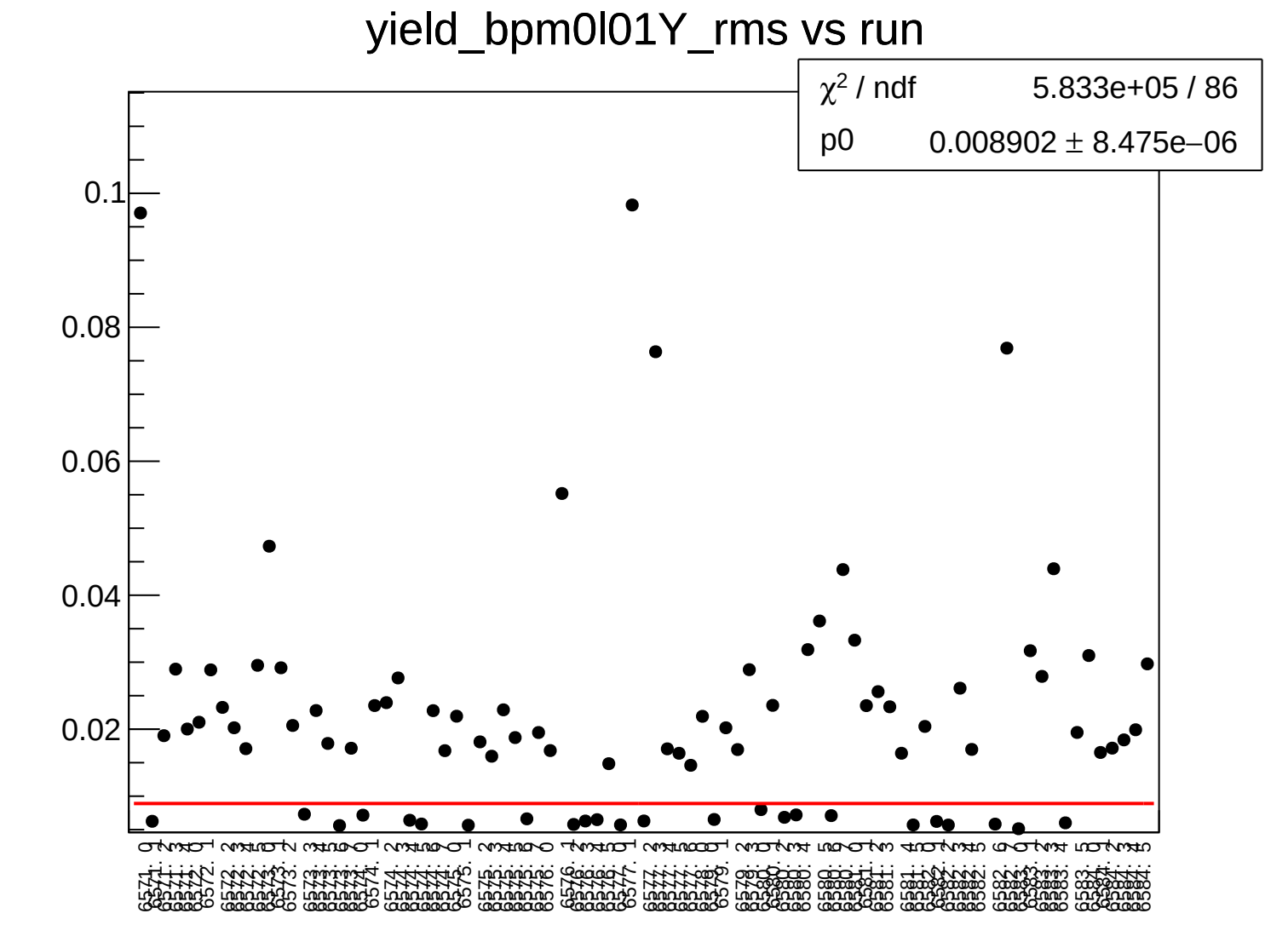

yield_bpm0i01aY_rms vs run
χ² / ndf 1.26e+04 / 86
p0 0.00494 ± 3.818e–06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

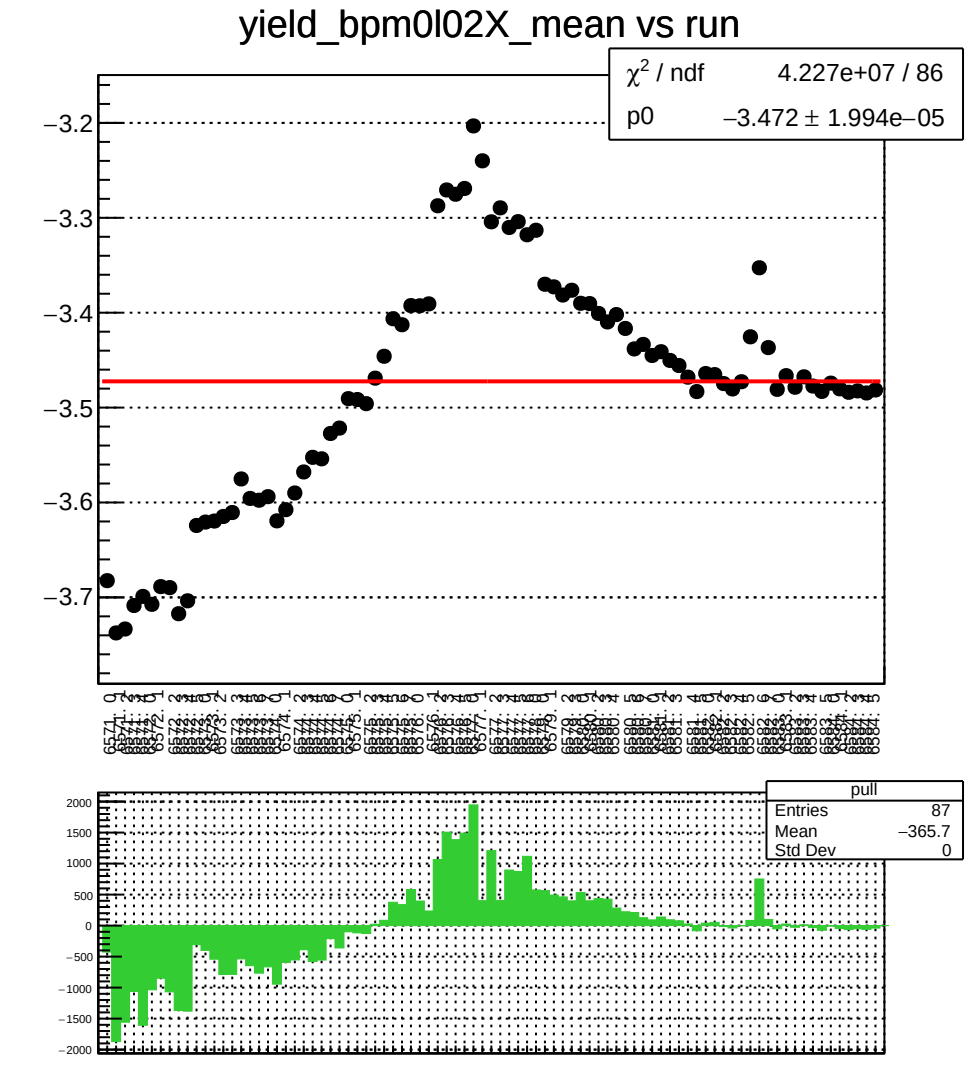

yield_bpm0l01X_mean vs run
χ² / ndf 4.146e+07 / 86
p0 −2.064 ± 5.958e−06
−1.98
−2
−2.02
−2.04
−2.06
−2.08
−2.1
−2.12
−2.14
pull
Entries 87
Mean −1.648e+04
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 87
Mean 1.722
Std Dev 4.958
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

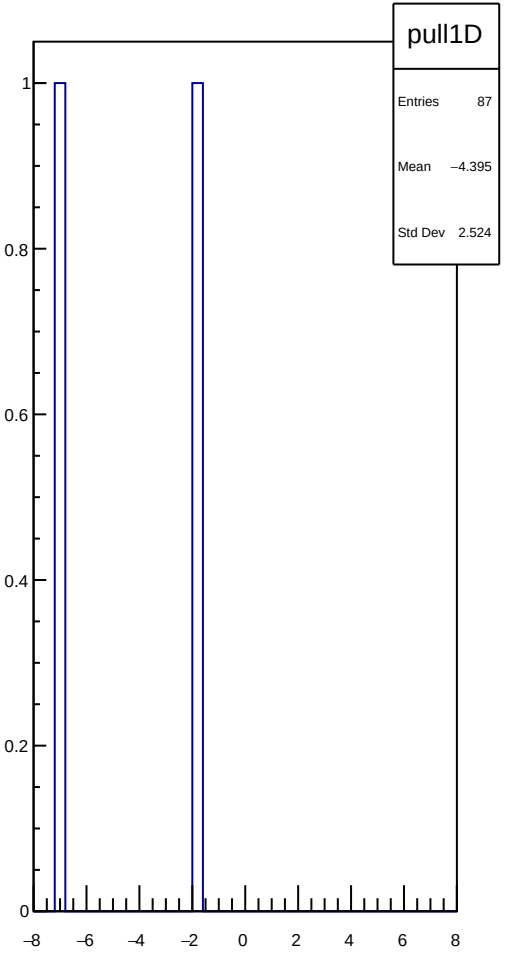

yield_bpm0l01X_rms vs run
χ² / ndf 4.401e+04 / 86
p0 0.0054 ± 4.213e−06
0.014
0.012
0.01
0.008
0.006
0.004

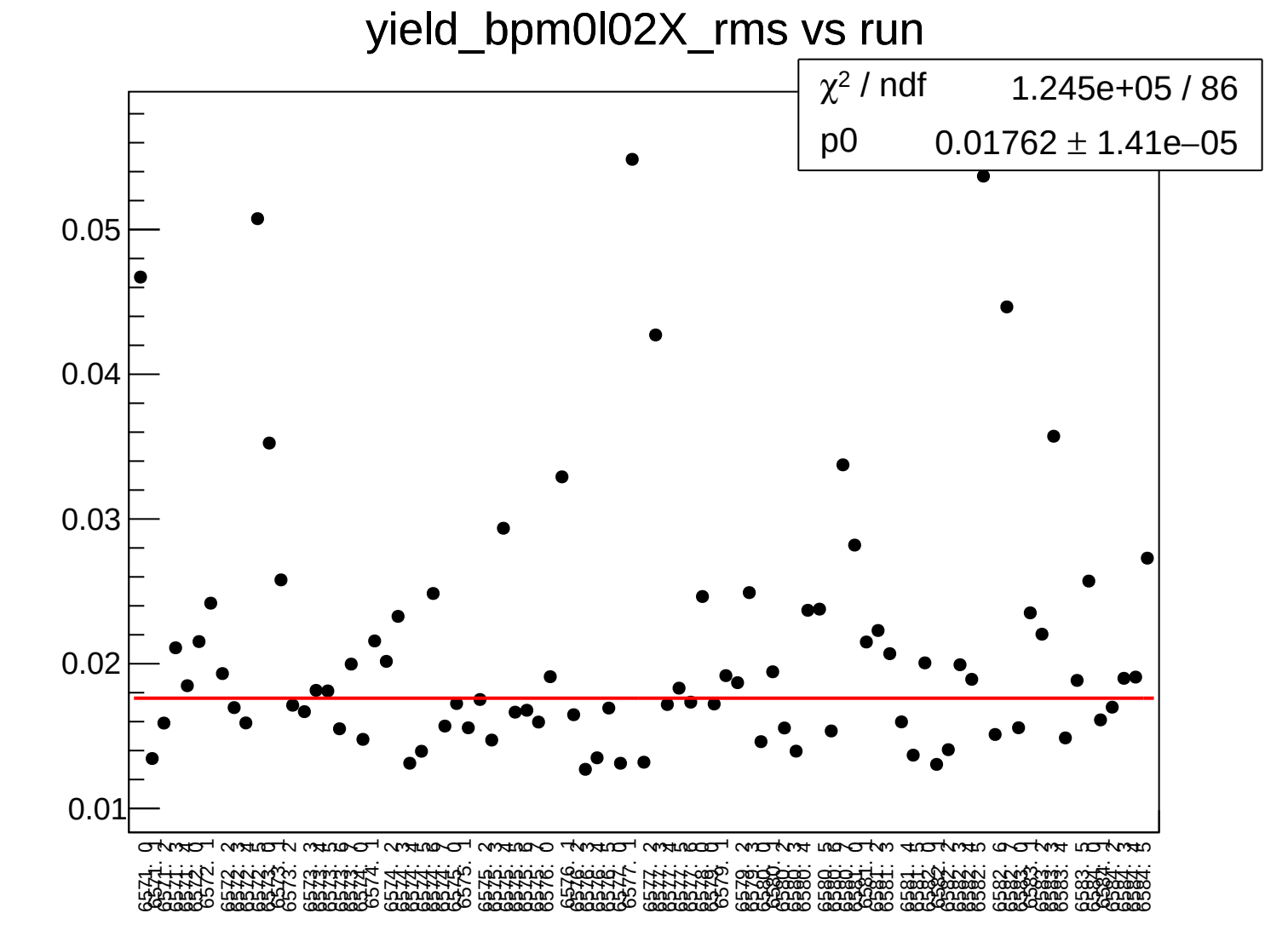

yield_bpm0l01Y_mean vs run
χ² / ndf 5.761e+07 / 86
p0 −7.497 ± 1.199e−05
−7.35
−7.4
−7.45
−7.5
−7.55
−7.6
−7.65
−7.7
pull
Entries 87
Mean −28.08
Std Dev 0
2000
1000
0
−1000
−2000
−3000

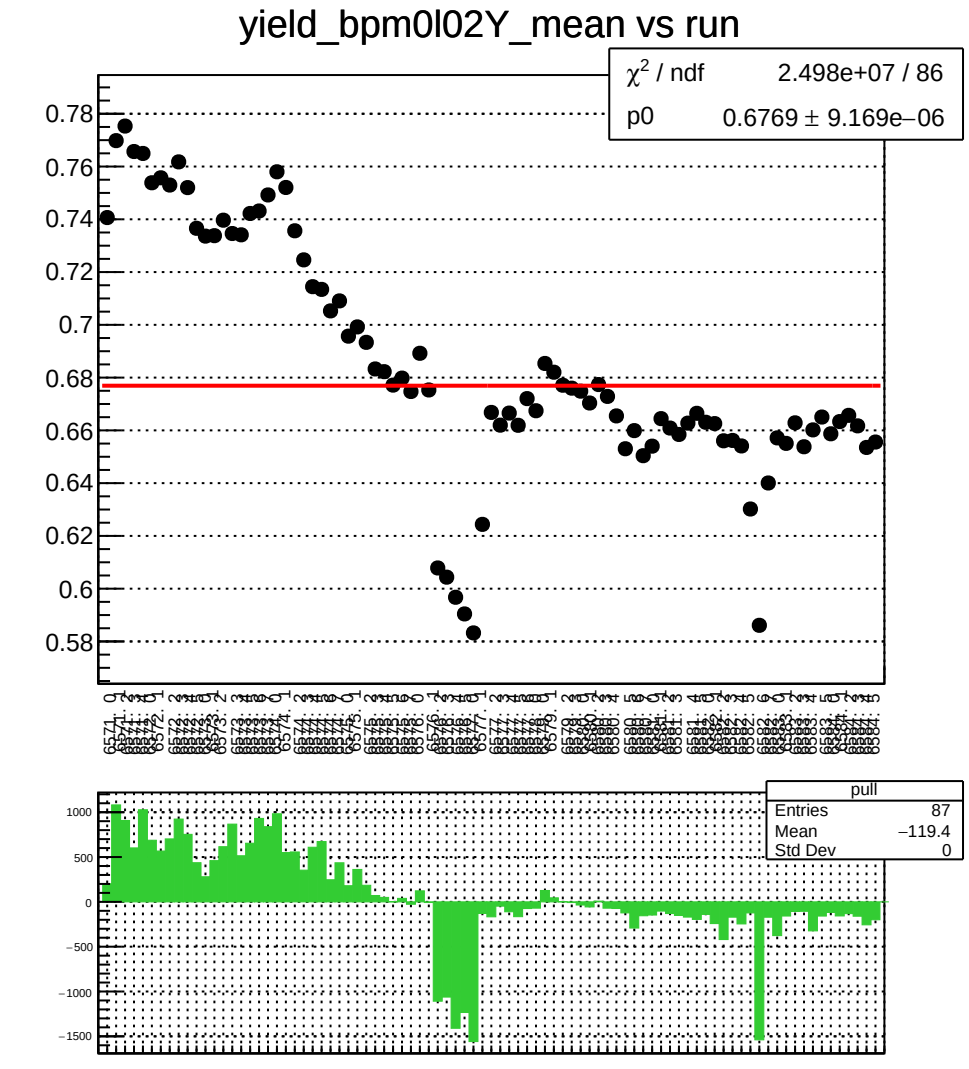

pull1D
Entries 87
Mean 1.211
Std Dev 1.553
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

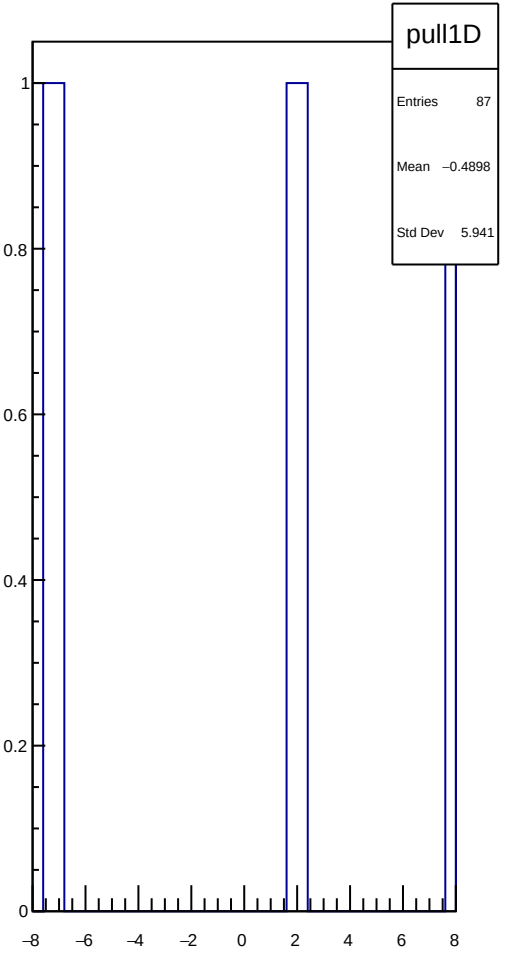

yield_bpm0l01Y_rms vs run
χ² / ndf 5.833e+05 / 86
p0 0.008902 ± 8.475e−06
0.1
0.08
0.06
0.04
0.02

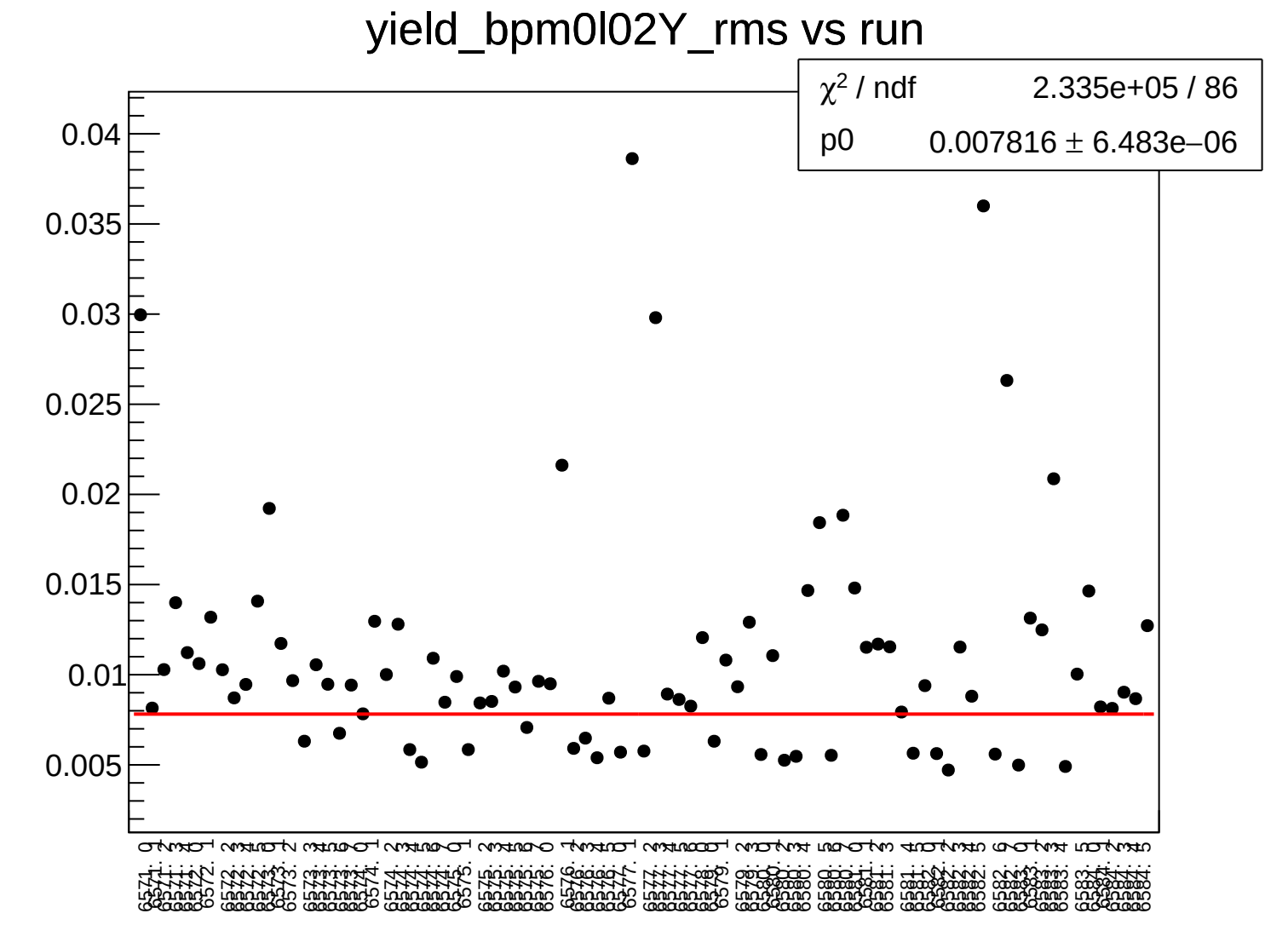

yield_bpm0l02X_mean vs run
χ² / ndf 4.227e+07 / 86
p0 −3.472 ± 1.994e−05
−3.2
−3.3
−3.4
−3.5
−3.6
−3.7
pull
Entries 87
Mean −365.7
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000

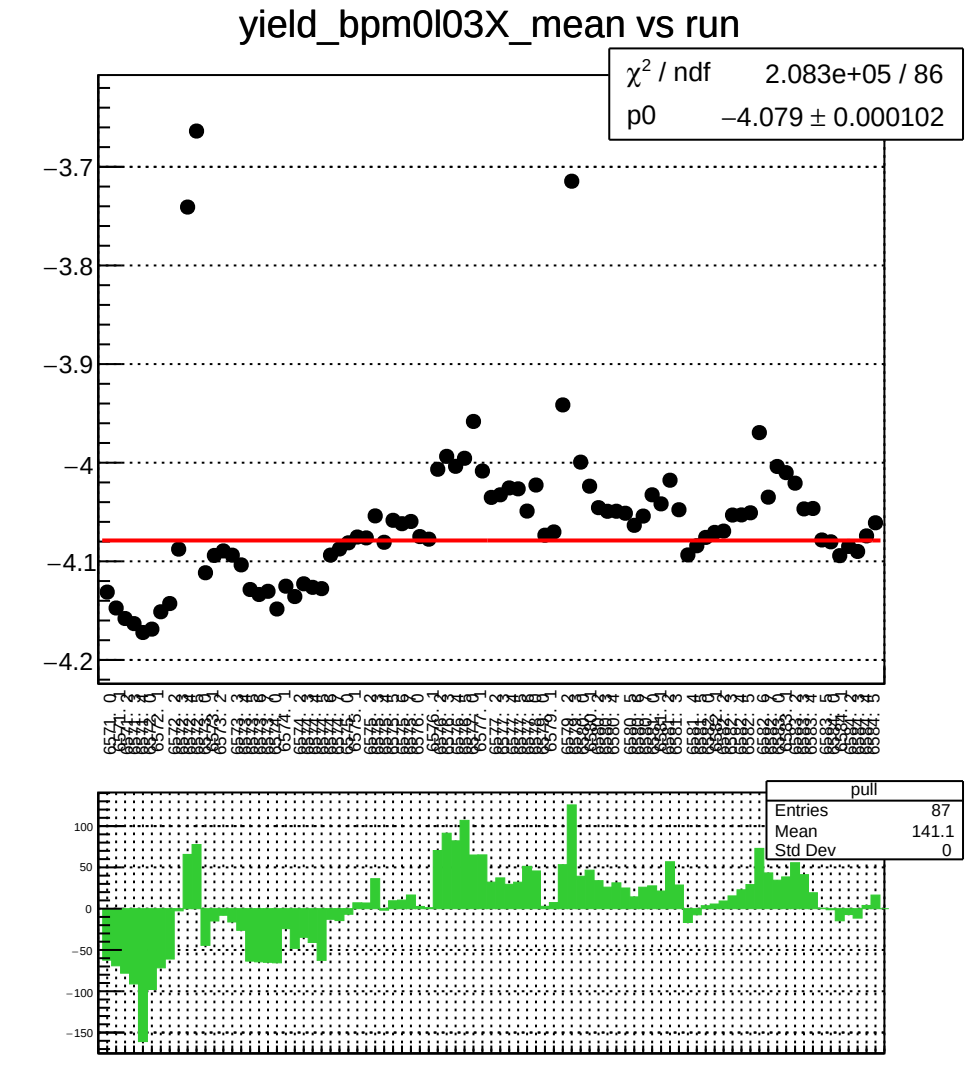

pull1D
Entries 87
Mean −4.395
Std Dev 2.524
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

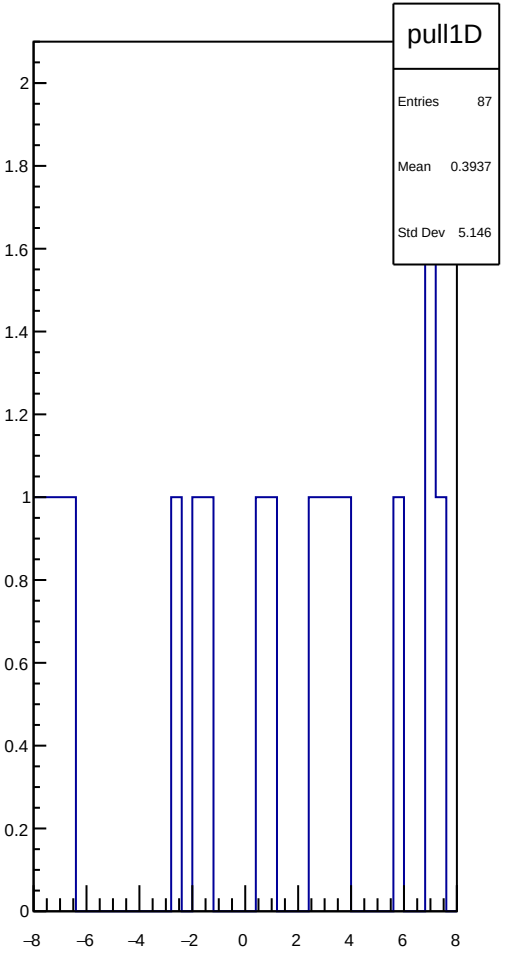

yield_bpm0l02X_rms vs run
χ² / ndf 1.245e+05 / 86
p0 0.01762 ± 1.41e−05
0.05
0.04
0.03
0.02
0.01

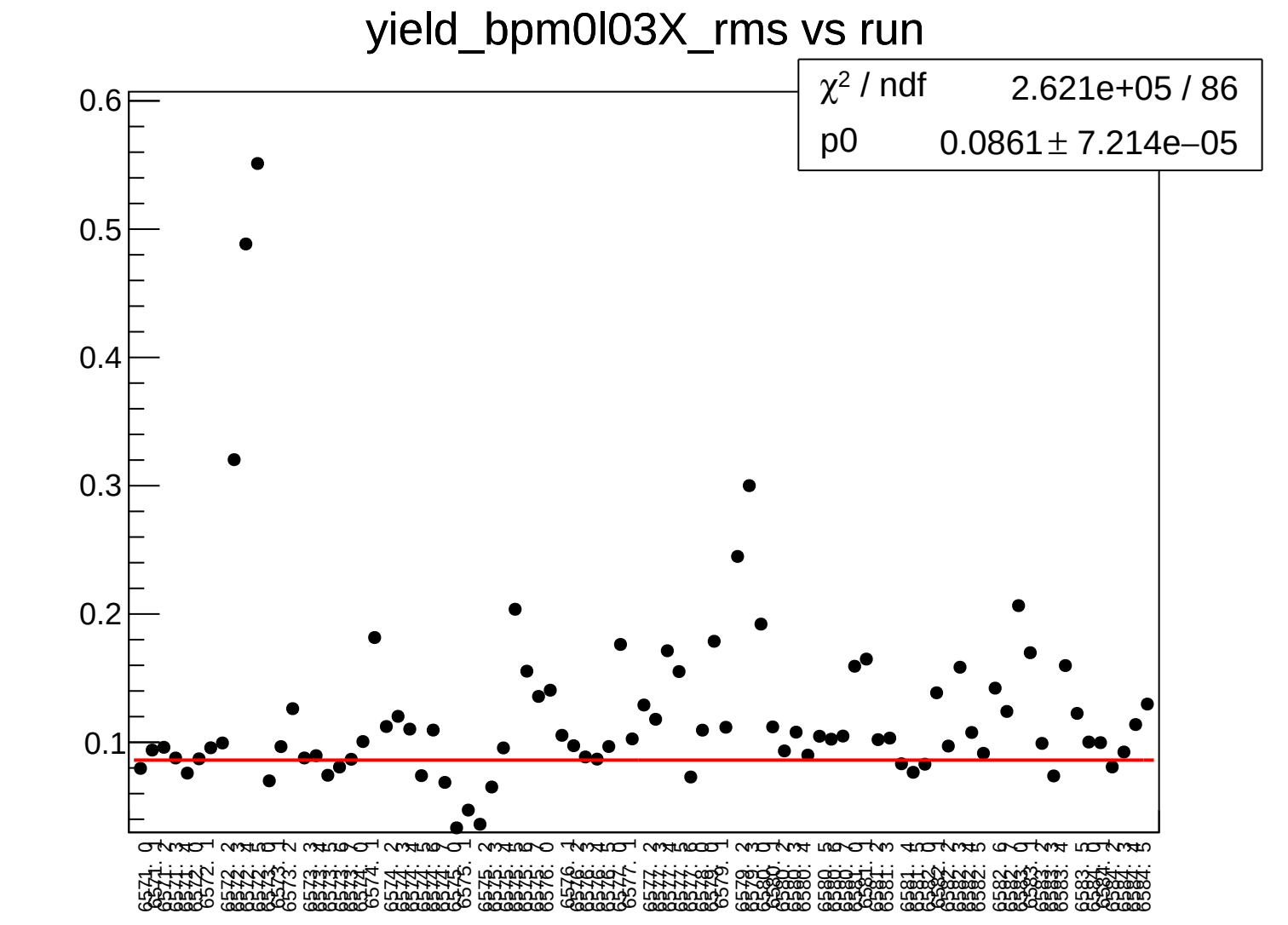

yield_bpm0l02Y_mean vs run
χ² / ndf 2.498e+07 / 86
p0 0.6769 ± 9.169e−06
pull
Entries 87
Mean −119.4
Std Dev 0

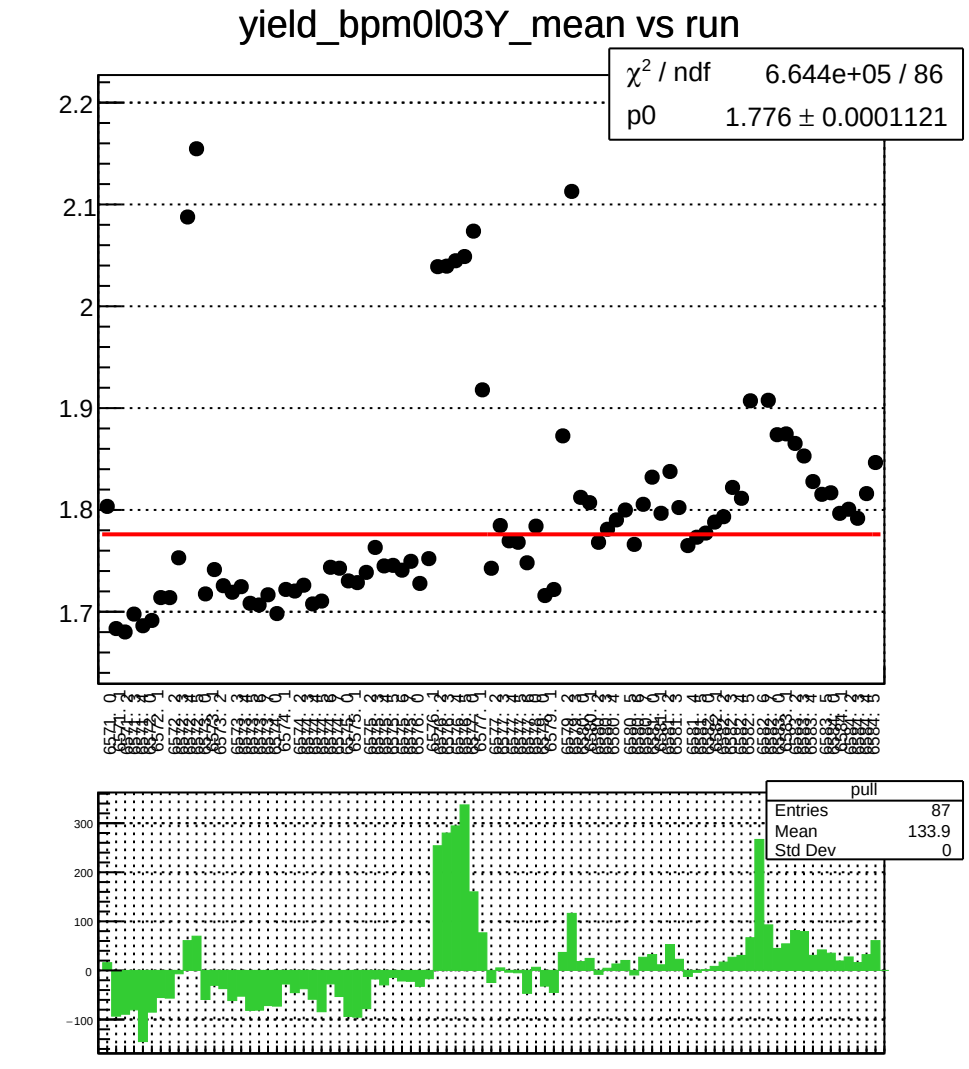

pull1D
Entries 87
Mean −0.4898
Std Dev 5.941

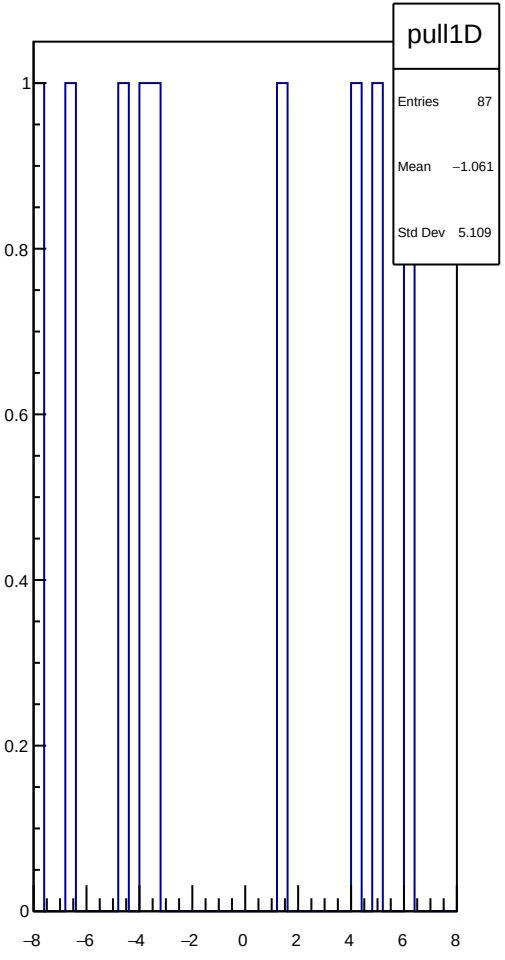

yield_bpm0l02Y_rms vs run
χ² / ndf 2.335e+05 / 86
p0 0.007816 ± 6.483e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

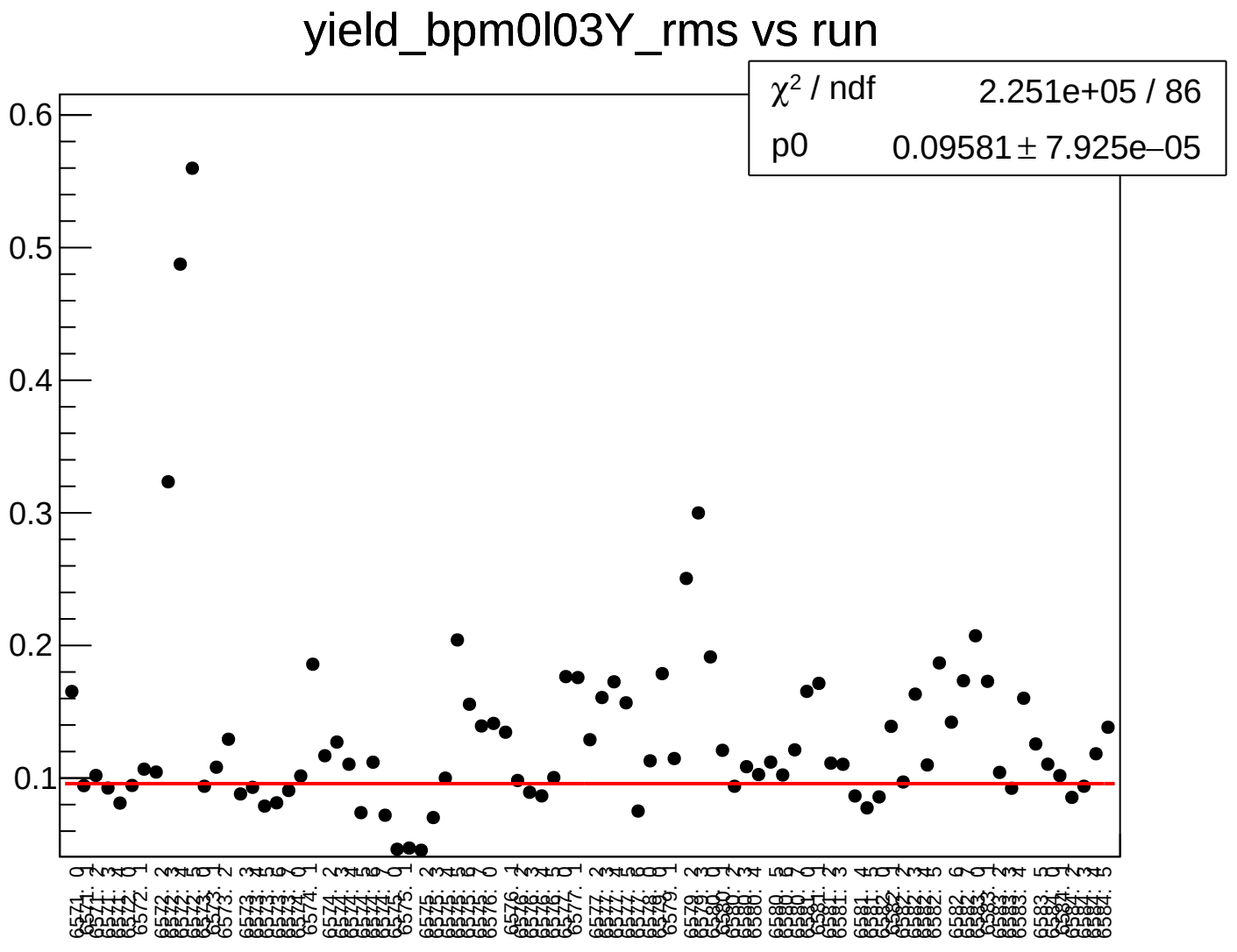

yield_bpm0l03X_mean vs run
χ² / ndf 2.083e+05 / 86
p0 −4.079 ± 0.000102
−3.7
−3.8
−3.9
−4
−4.1
−4.2
pull
Entries 87
Mean 141.1
Std Dev 0
100
50
0
−50
−100
−150

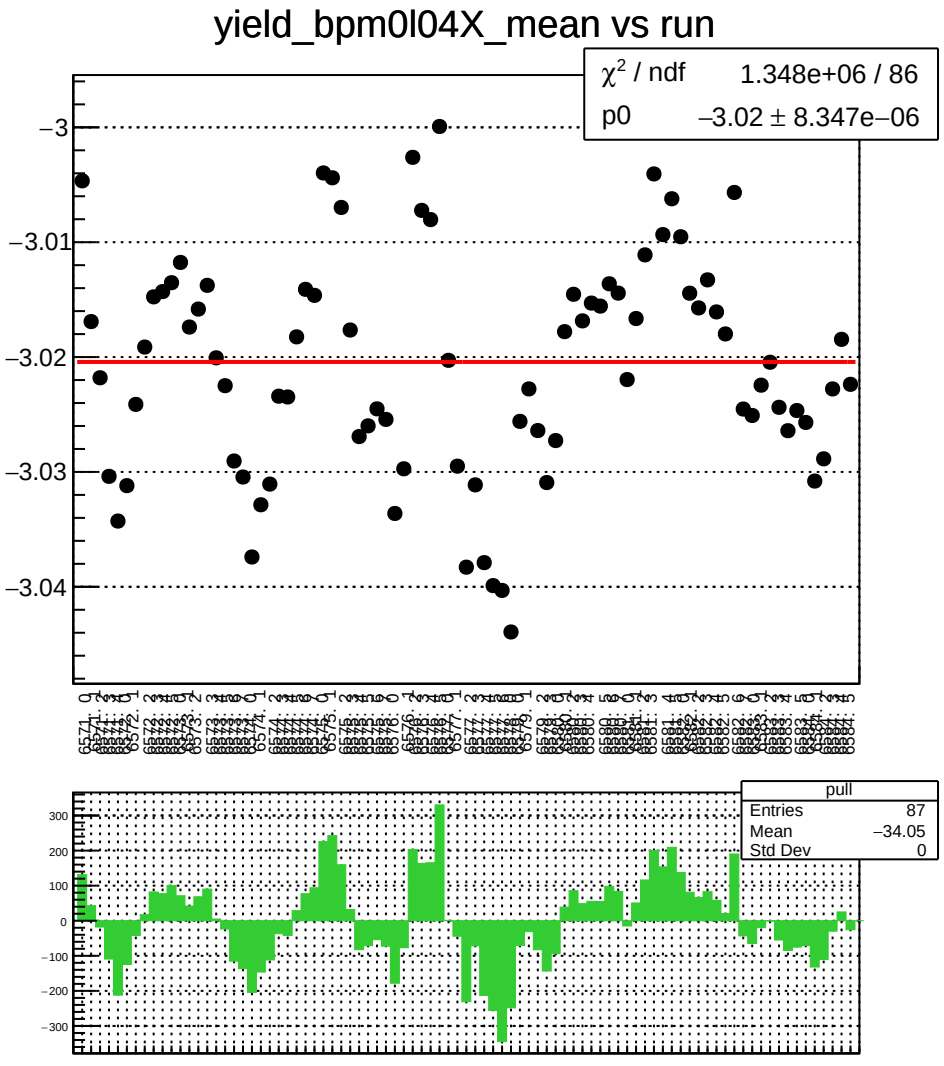

pull1D
Entries 87
Mean 0.3937
Std Dev 5.146
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

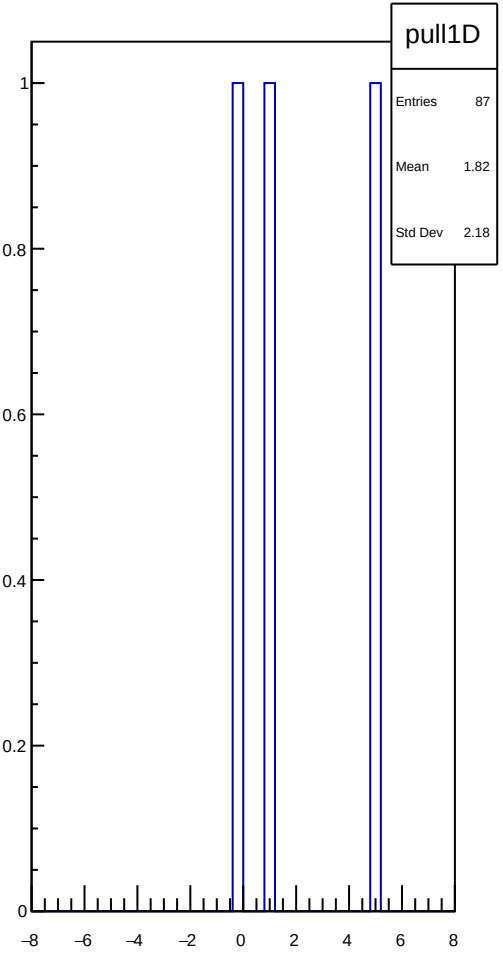

yield_bpm0l03X_rms vs run
χ² / ndf 2.621e+05 / 86
p0 0.0861 ± 7.214e−05
0.6
0.5
0.4
0.3
0.2
0.1

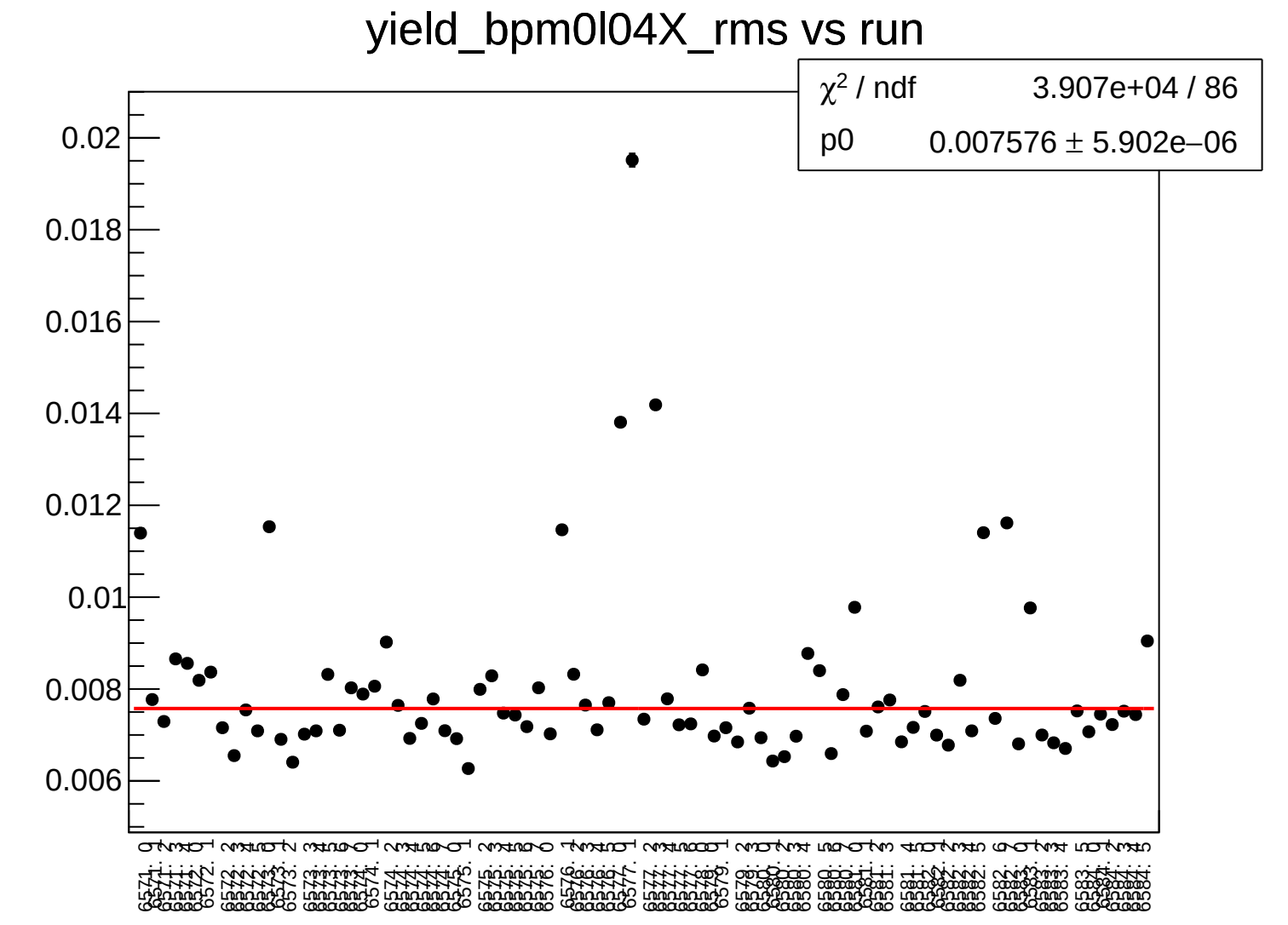

yield_bpm0l03Y_mean vs run
χ² / ndf 6.644e+05 / 86
p0 1.776 ± 0.0001121
2.2
2.1
2
1.9
1.8
1.7
pull
Entries 87
Mean 133.9
Std Dev 0
300
200
100
0
−100

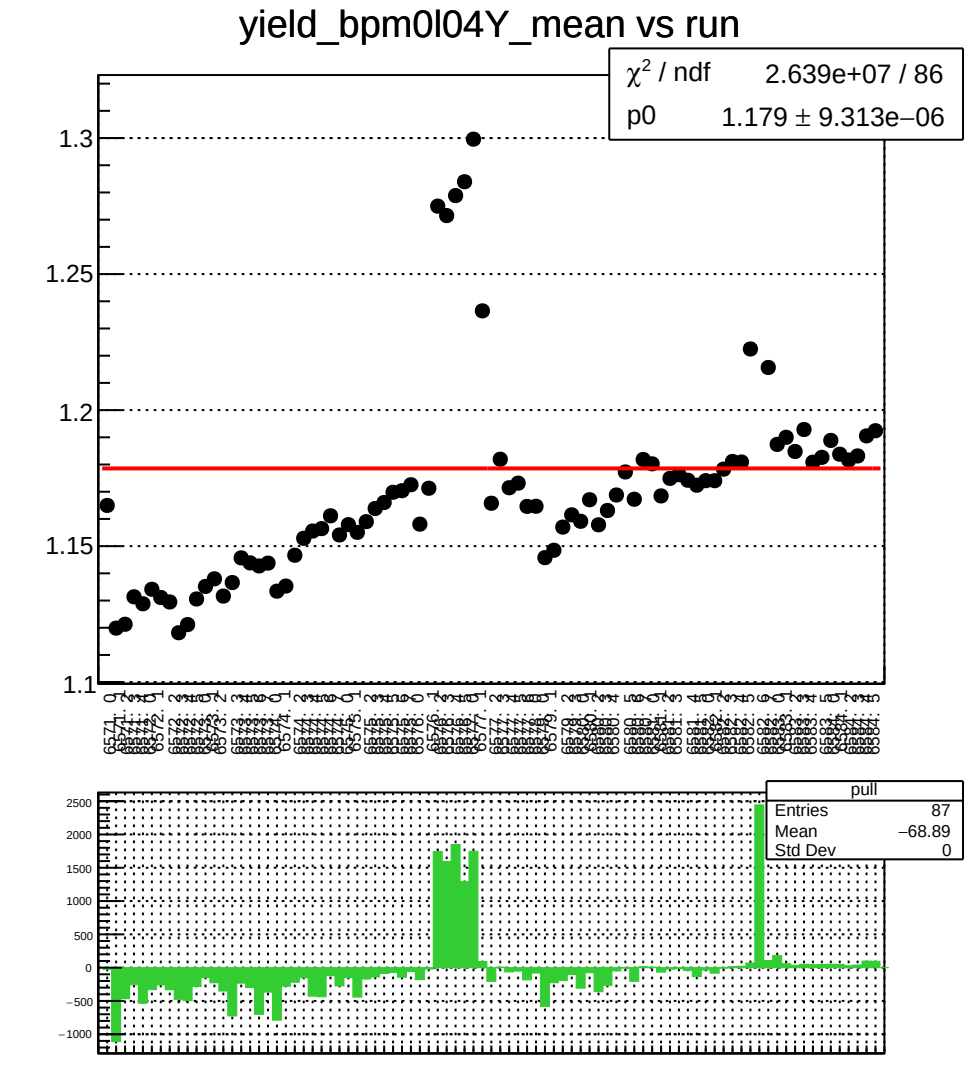

pull1D
Entries 87
Mean −1.061
Std Dev 5.109
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

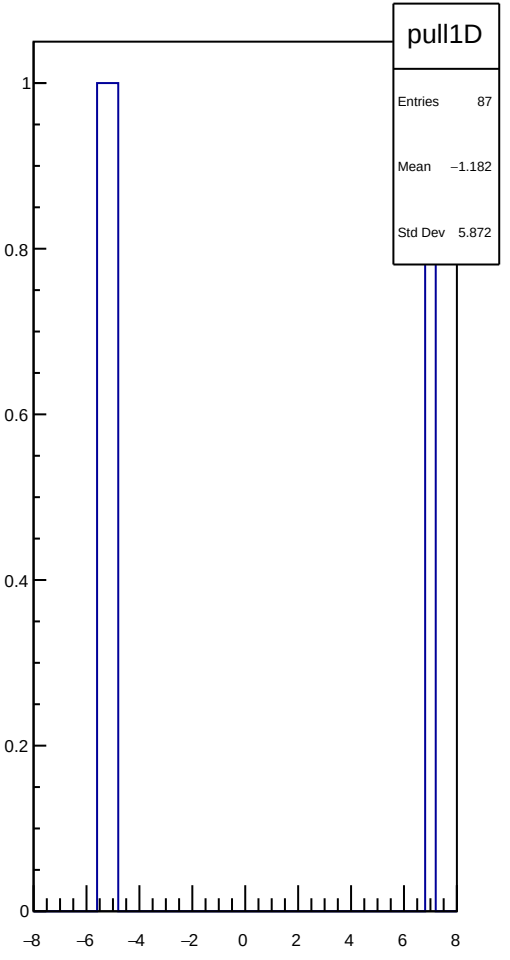

yield_bpm0l03Y_rms vs run
χ² / ndf 2.251e+05 / 86
p0 0.09581 ± 7.925e−05
0.6
0.5
0.4
0.3
0.2
0.1

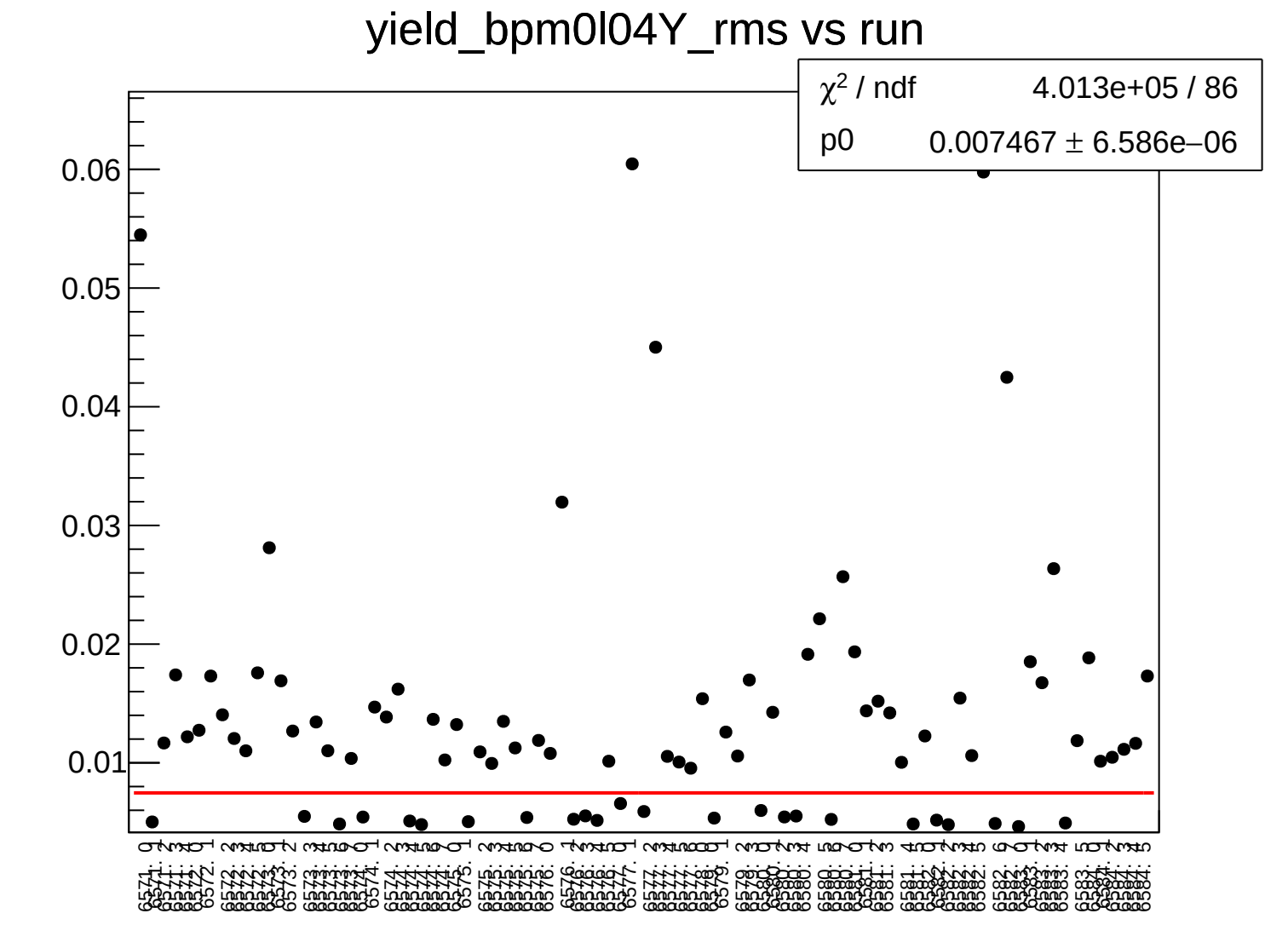

yield_bpm0l04X_mean vs run
χ² / ndf 1.348e+06 / 86
p0 −3.02 ± 8.347e−06
−3
−3.01
−3.02
−3.03
−3.04
pull
Entries 87
Mean −34.05
Std Dev 0
300
200
100
0
−100
−200
−300

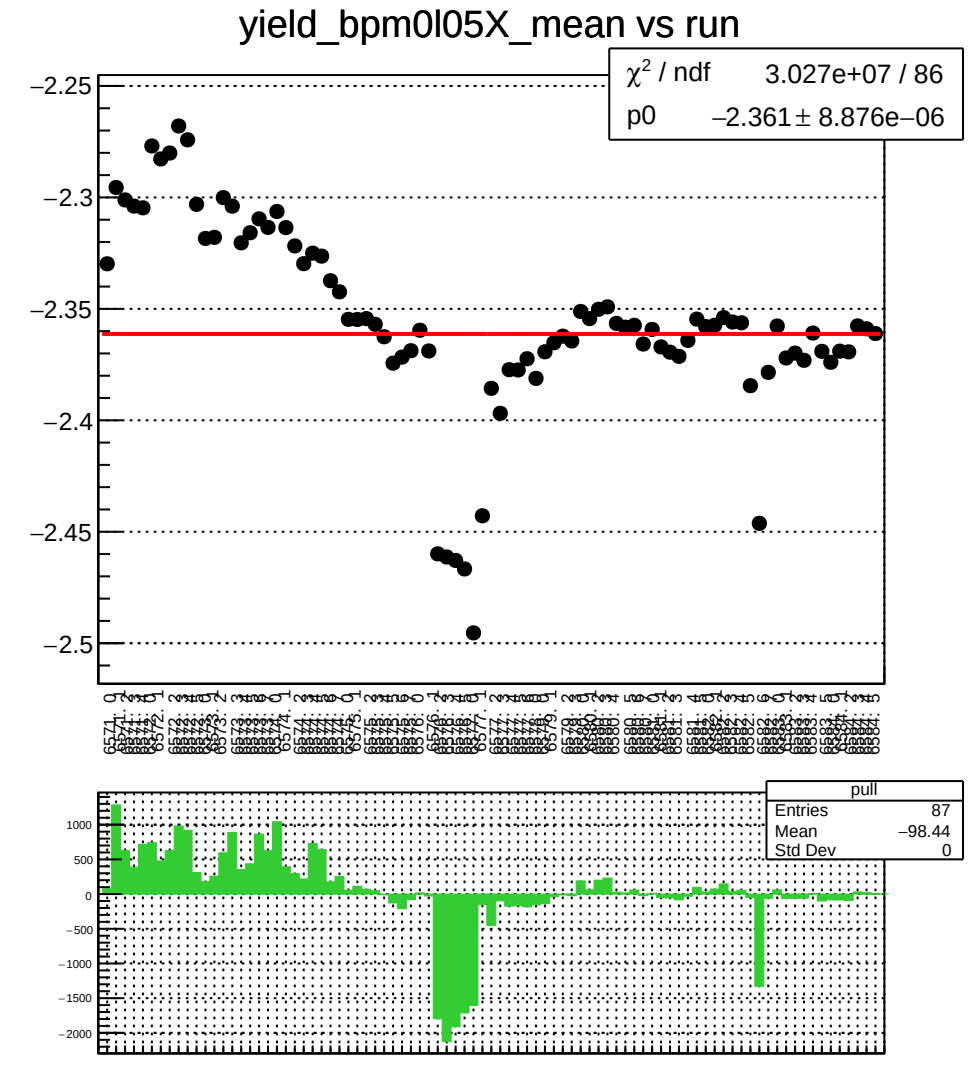

pull1D
Entries 87
Mean 1.82
Std Dev 2.18
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

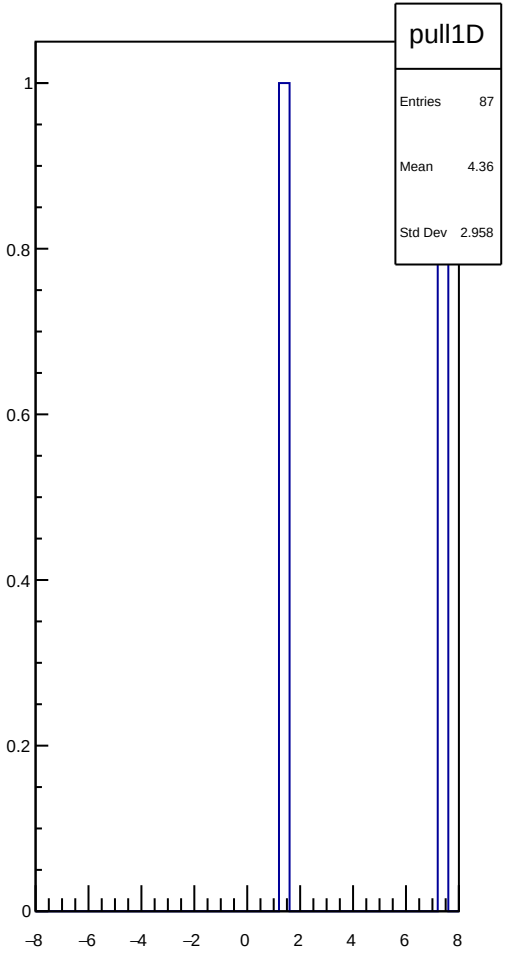

yield_bpm0l04X_rms vs run
χ² / ndf 3.907e+04 / 86
p0 0.007576 ± 5.902e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

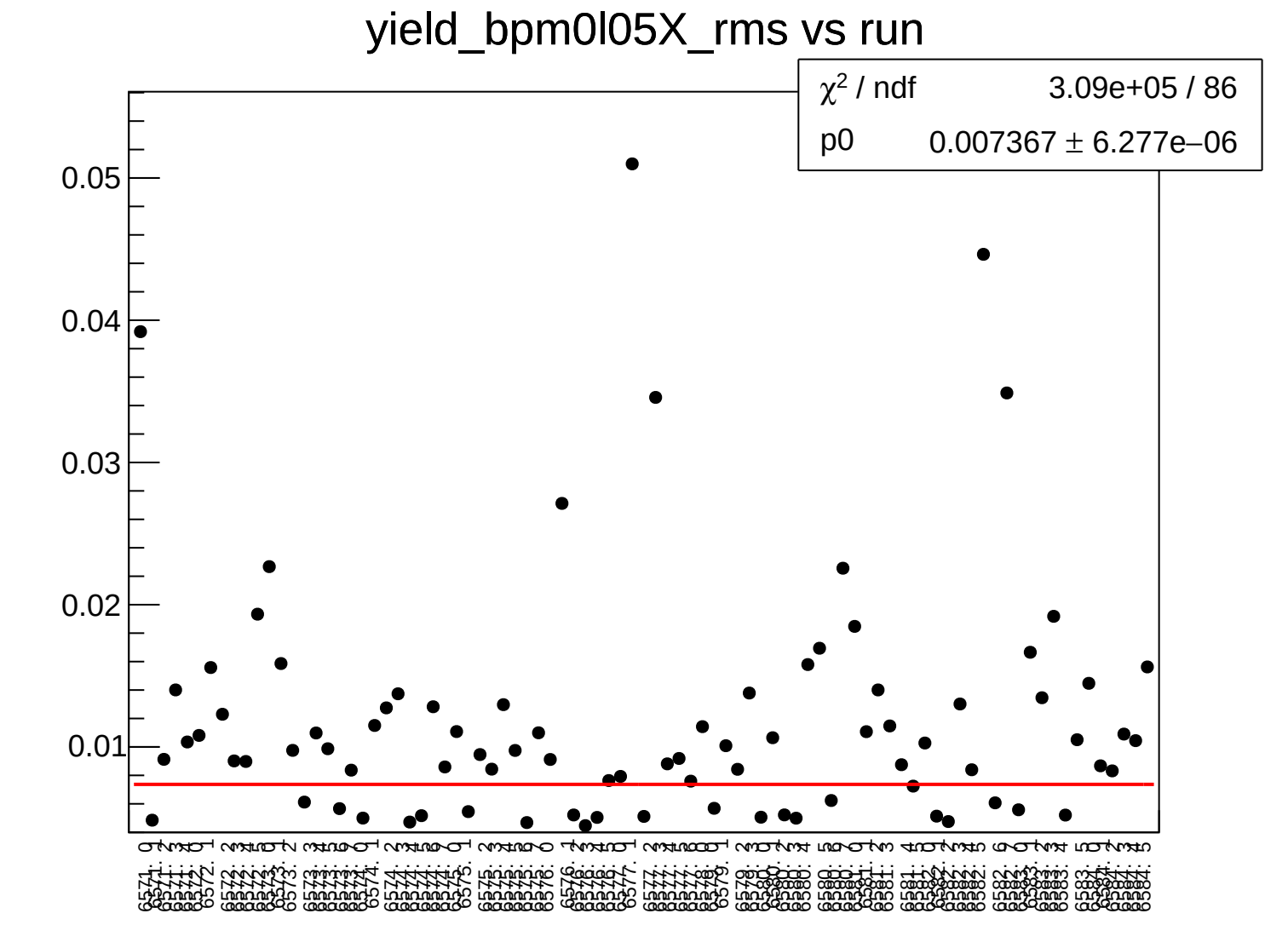

yield_bpm0l04Y_mean vs run
χ² / ndf 2.639e+07 / 86
p0 1.179 ± 9.313e−06
1.3
1.25
1.2
1.15
1.1
pull
Entries 87
Mean −68.89
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

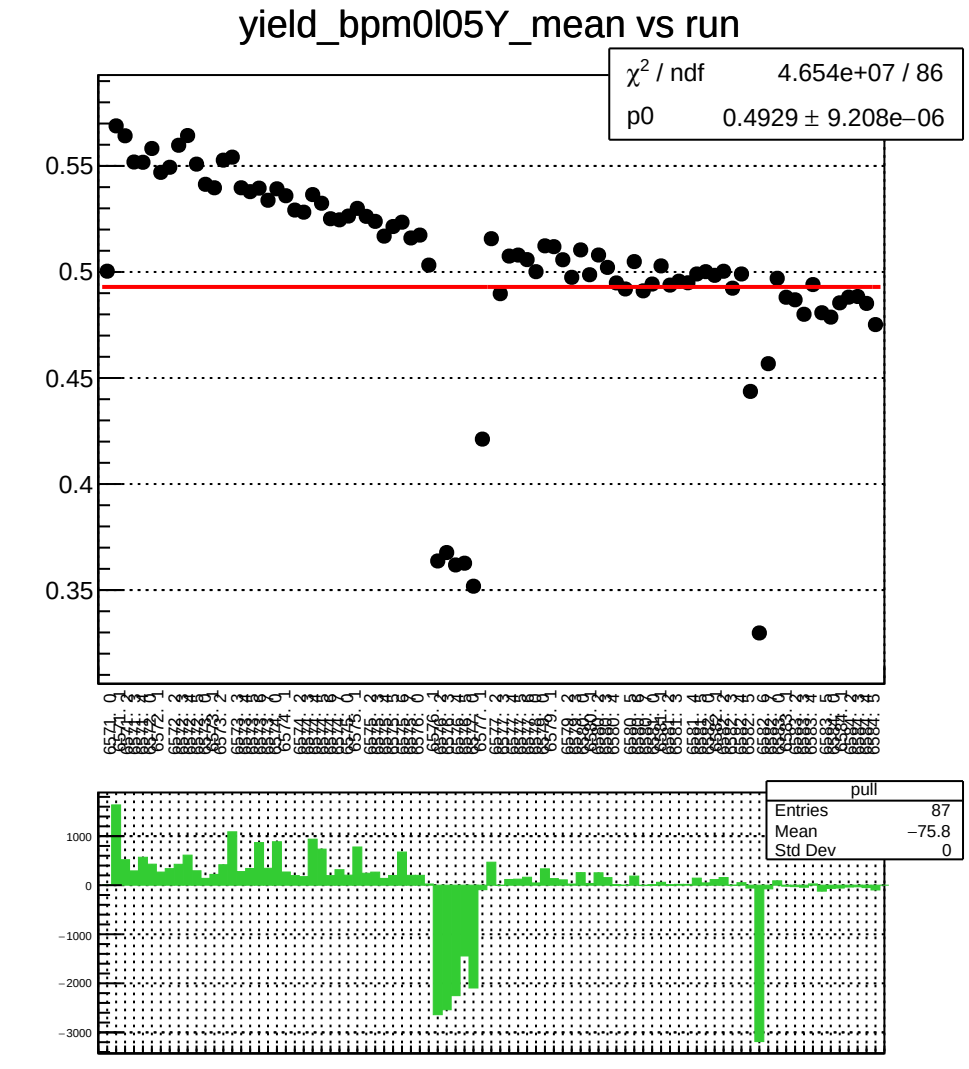

pull1D
Entries 87
Mean −1.182
Std Dev 5.872
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

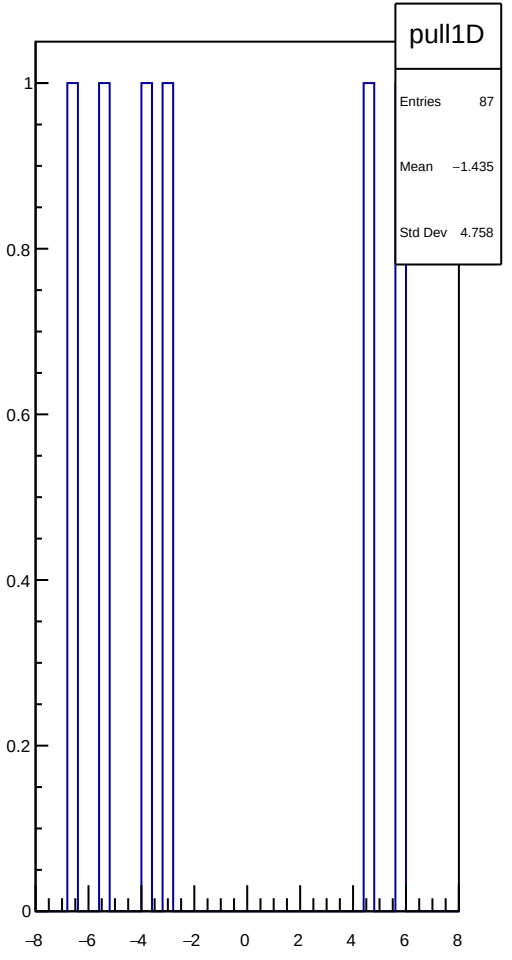

yield_bpm0l04Y_rms vs run
χ² / ndf 4.013e+05 / 86
p0 0.007467 ± 6.586e−06
0.06
0.05
0.04
0.03
0.02
0.01

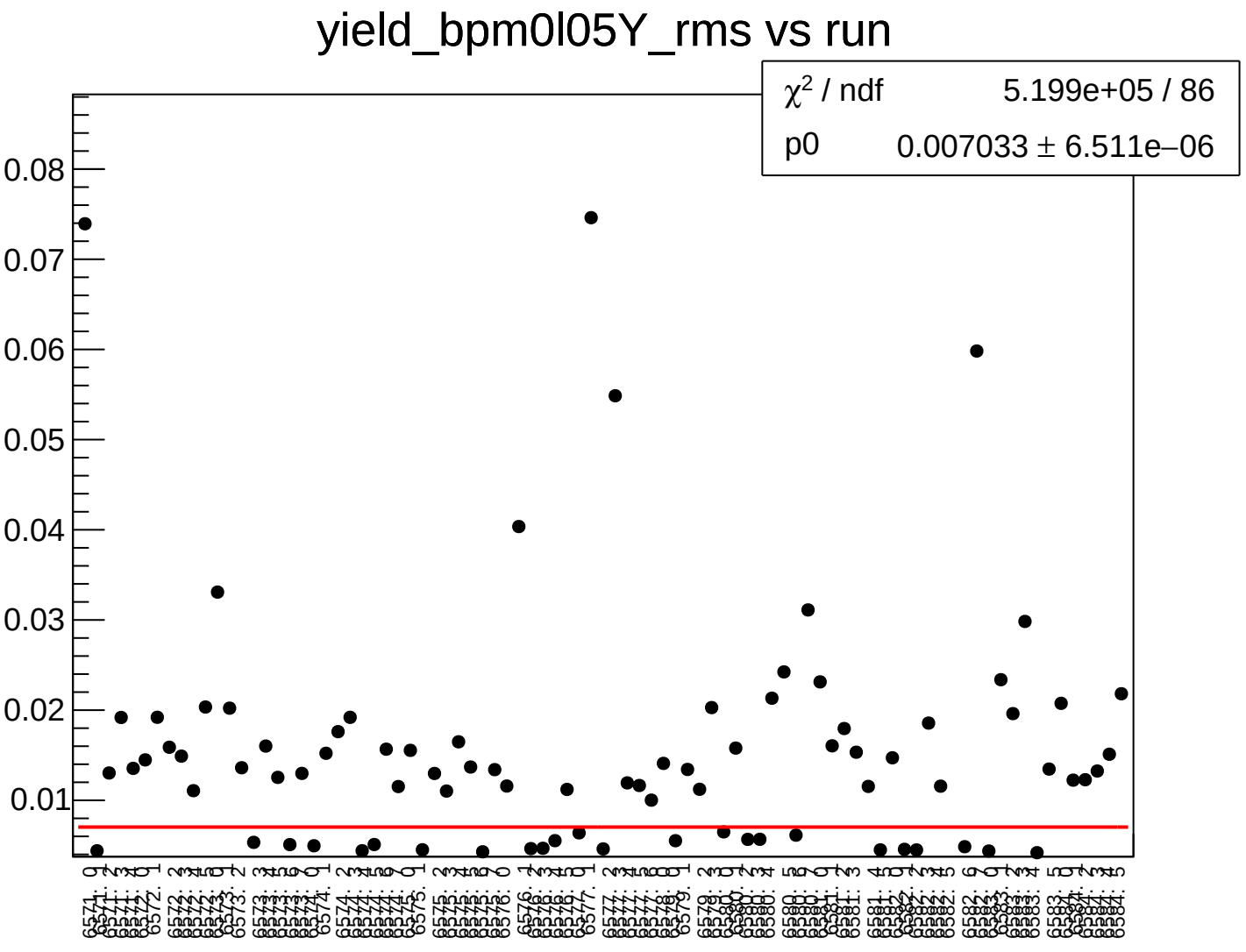

yield_bpm0l05X_mean vs run
χ² / ndf 3.027e+07 / 86
p0 −2.361 ± 8.876e−06
−2.25
−2.3
−2.35
−2.4
−2.45
−2.5
pull
Entries 87
Mean −98.44
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

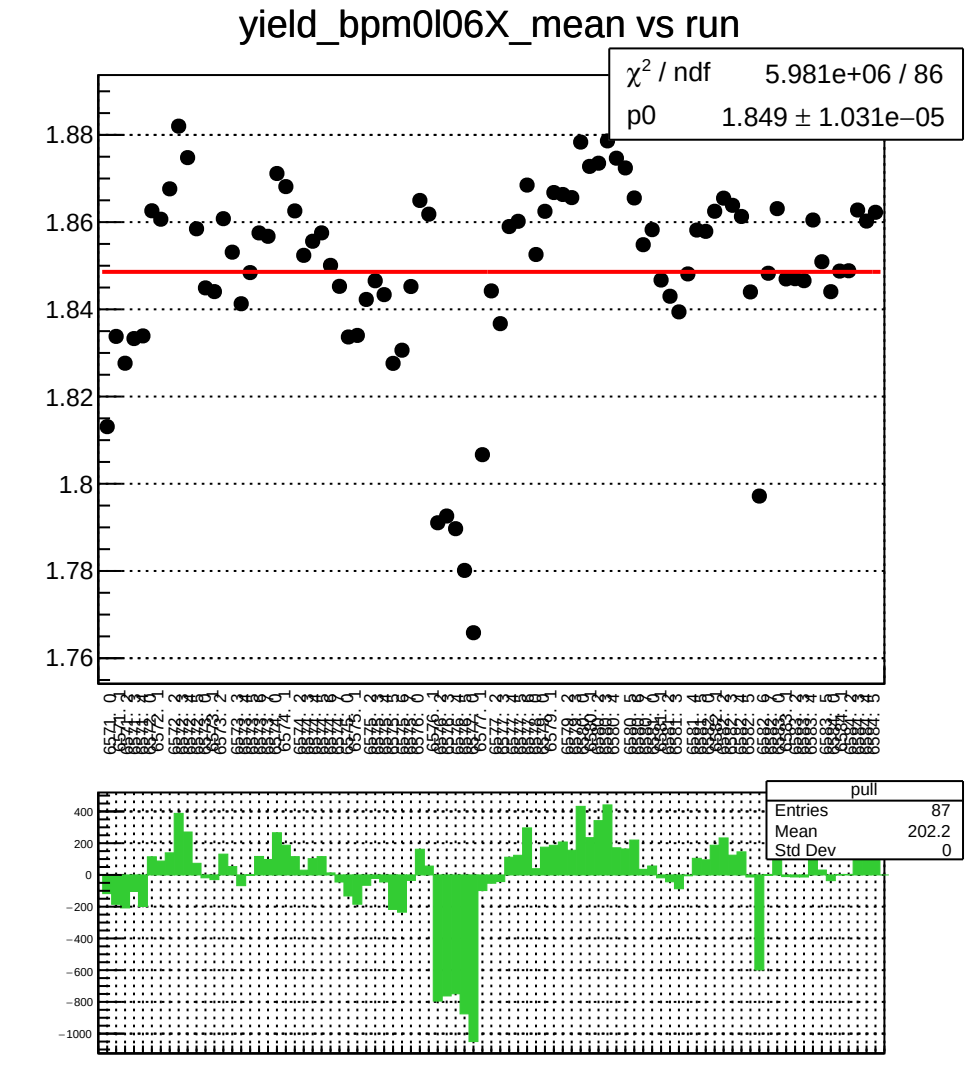

pull1D
Entries 87
Mean 4.36
Std Dev 2.958
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

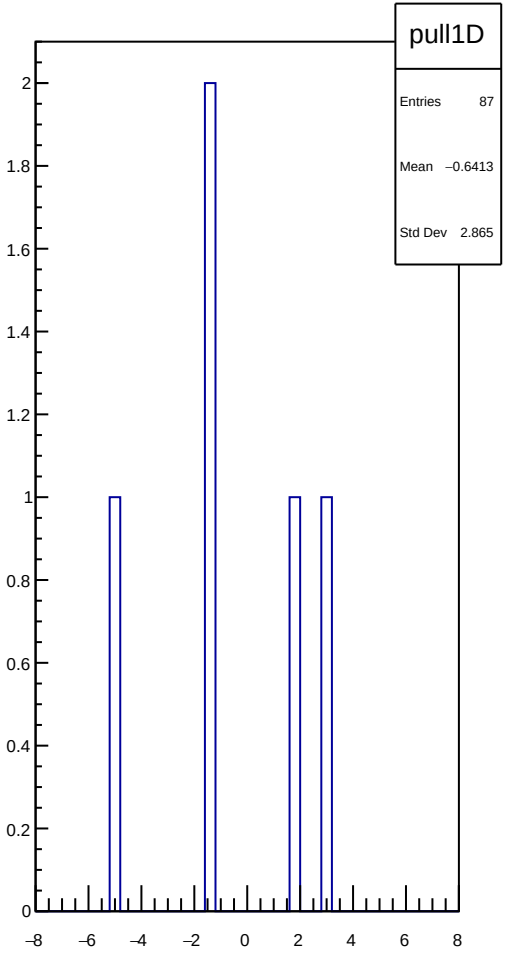

yield_bpm0l05X_rms vs run
χ² / ndf 3.09e+05 / 86
p0 0.007367 ± 6.277e−06
0.05
0.04
0.03
0.02
0.01

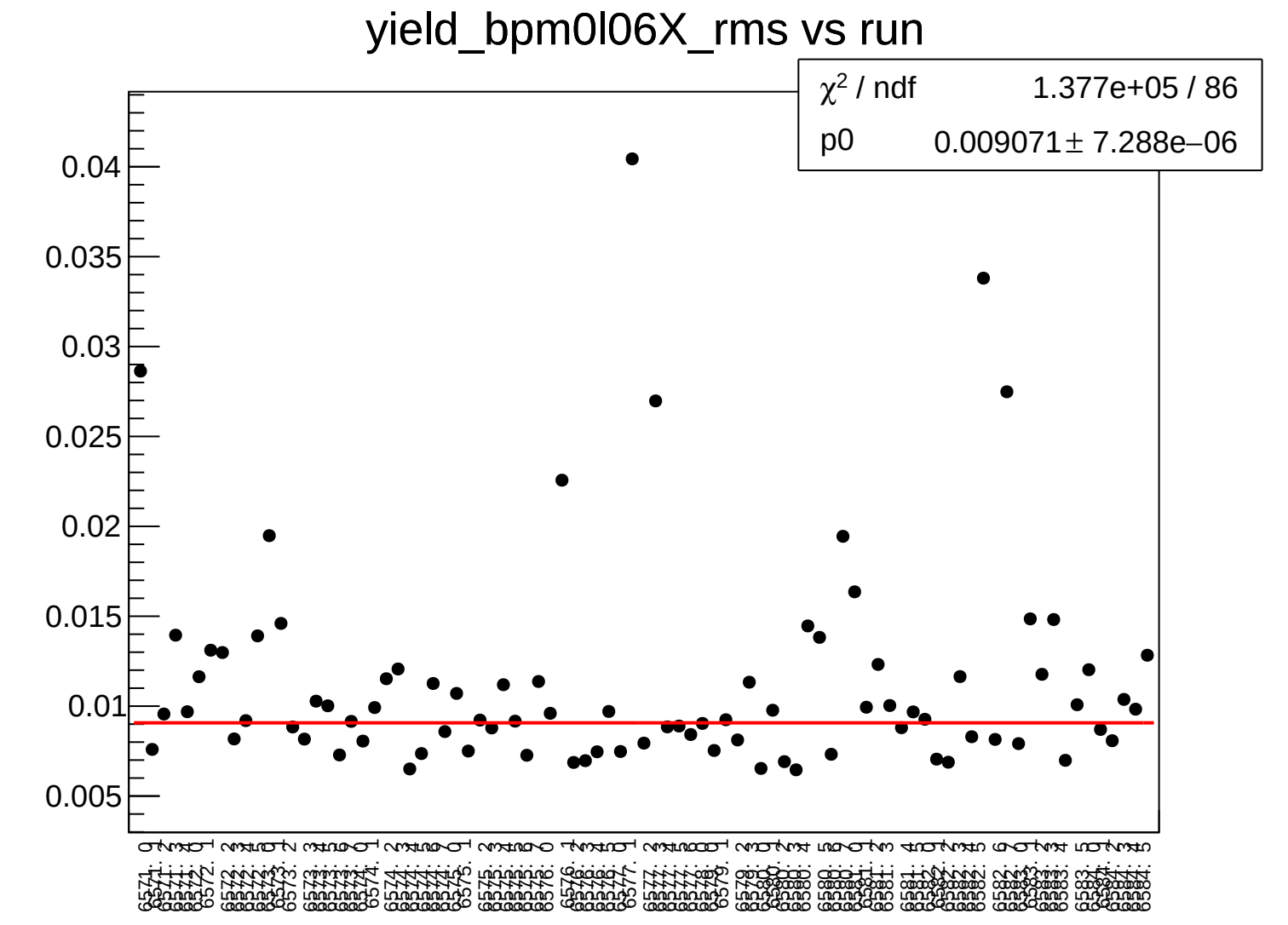

yield_bpm0l05Y_mean vs run
χ² / ndf 4.654e+07 / 86
p0 0.4929 ± 9.208e−06
0.55
0.5
0.45
0.4
0.35
pull
Entries 87
Mean −75.8
Std Dev 0
1000
0
−1000
−2000
−3000

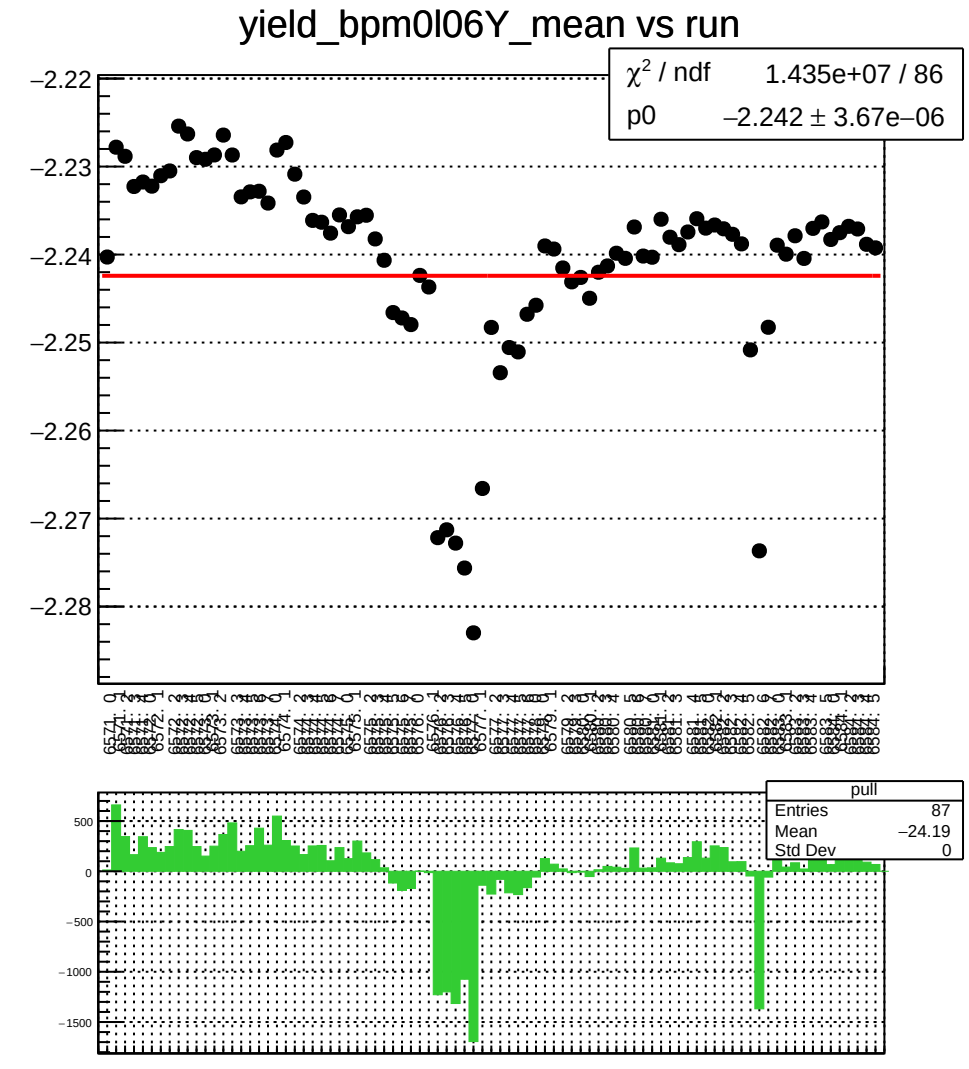

pull1D
Entries 87
Mean −1.435
Std Dev 4.758
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

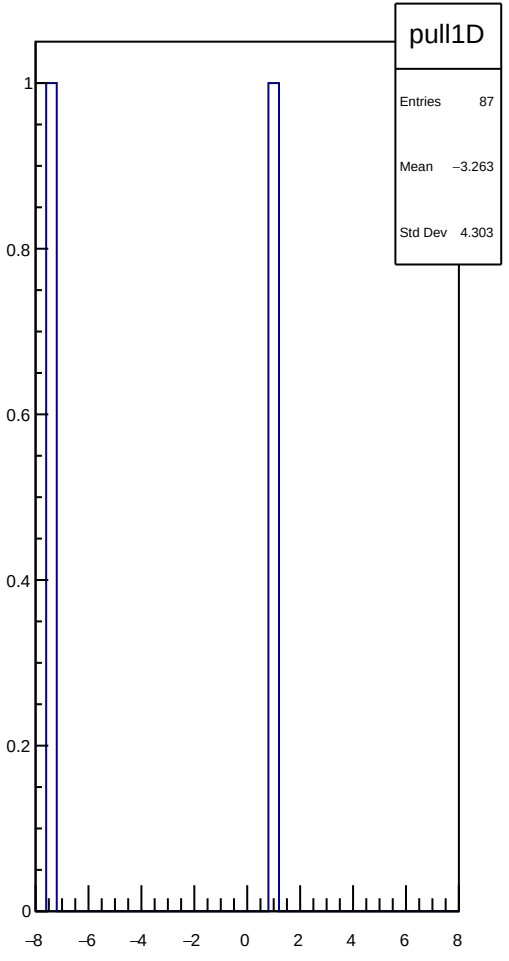

yield_bpm0l05Y_rms vs run
χ² / ndf 5.199e+05 / 86
p0 0.007033 ± 6.511e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

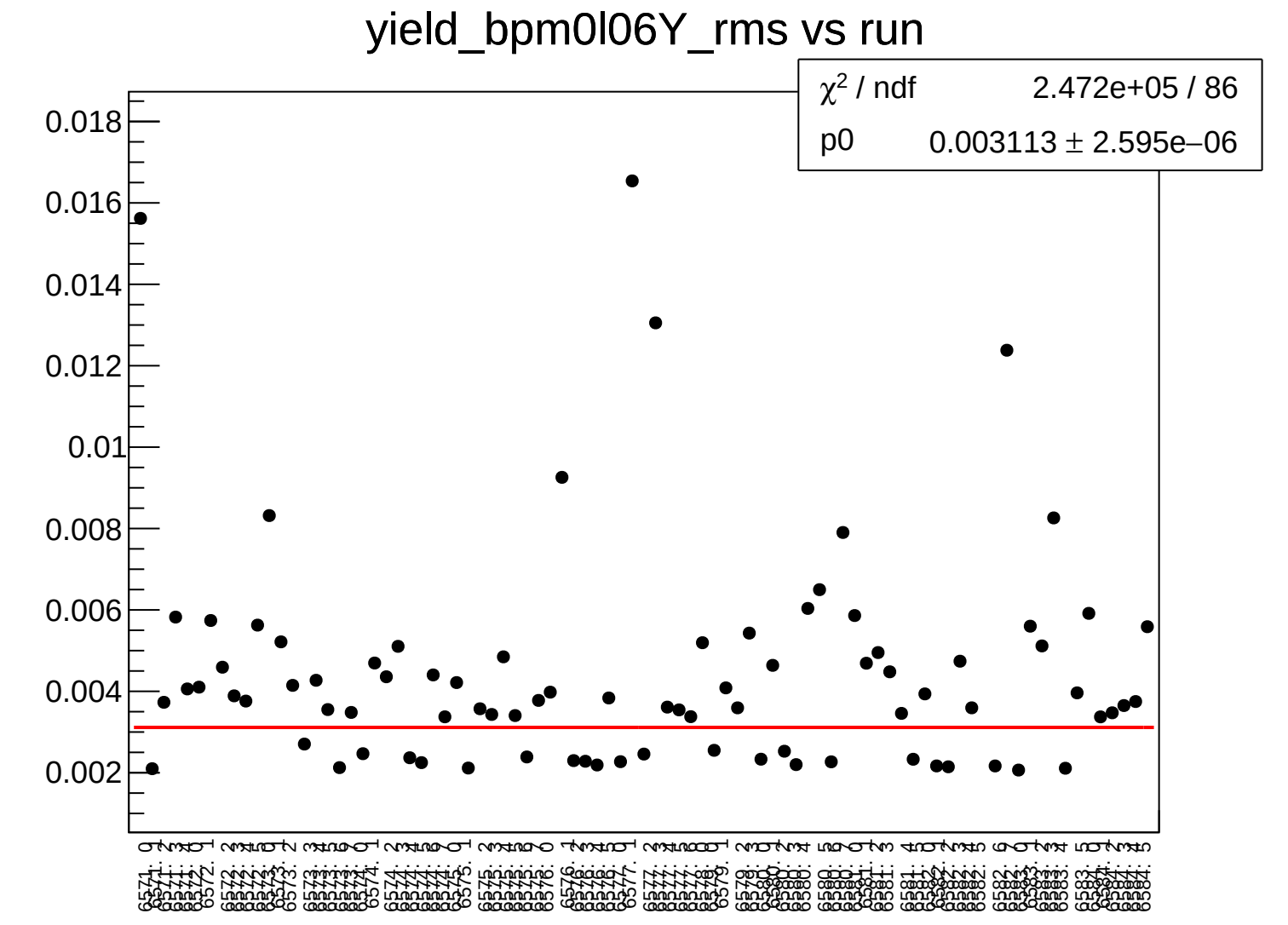

yield_bpm0l06X_mean vs run
χ² / ndf 5.981e+06 / 86
p0 1.849 ± 1.031e−05
1.88
1.86
1.84
1.82
1.8
1.78
1.76
pull
Entries 87
Mean 202.2
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

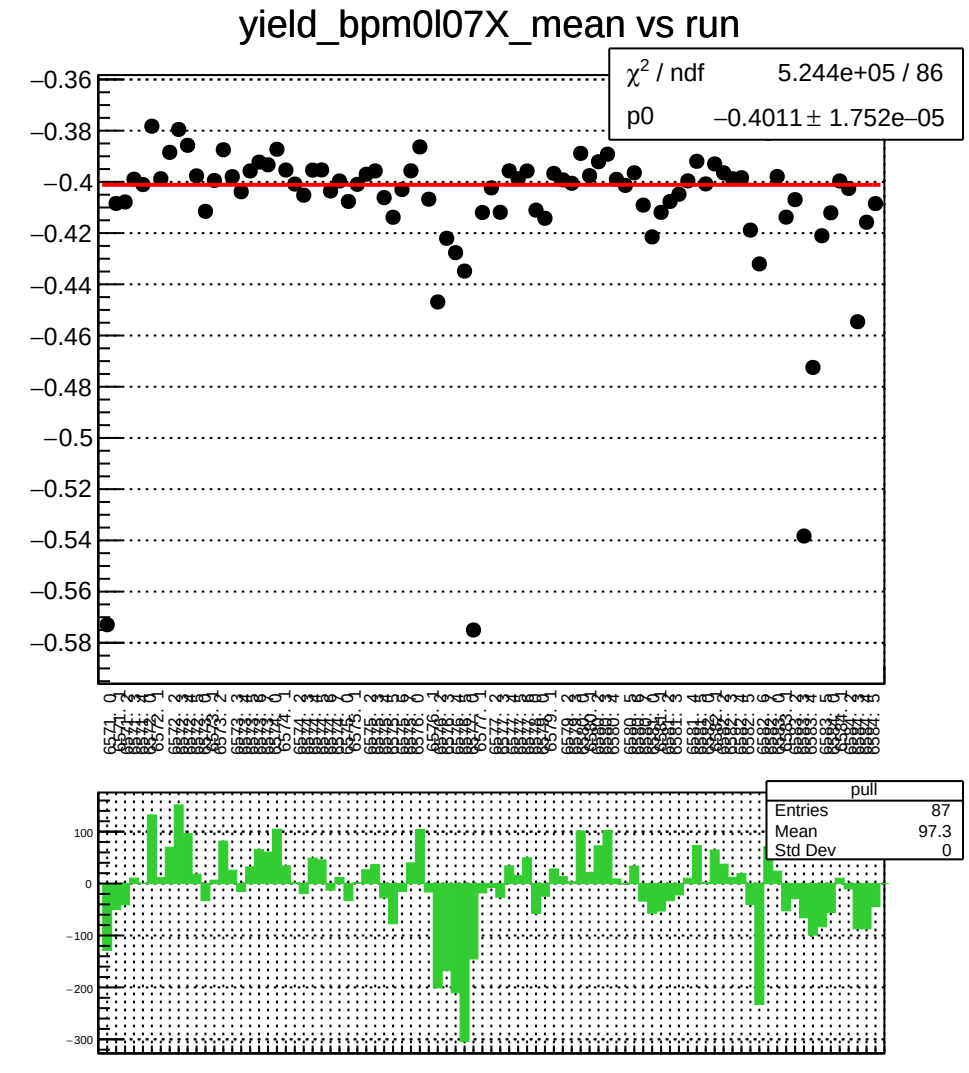

pull1D
Entries 87
Mean −0.6413
Std Dev 2.865
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

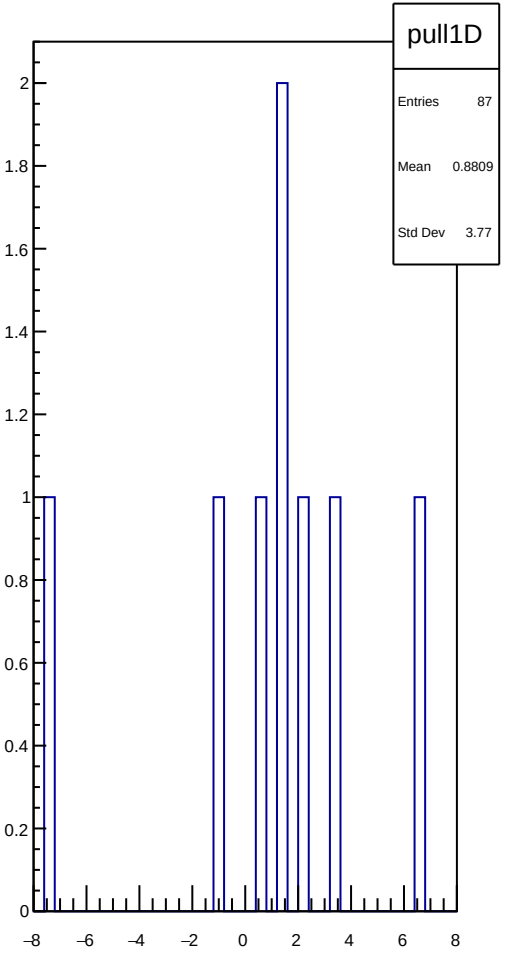

yield_bpm0l06X_rms vs run
χ² / ndf 1.377e+05 / 86
p0 0.009071 ± 7.288e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

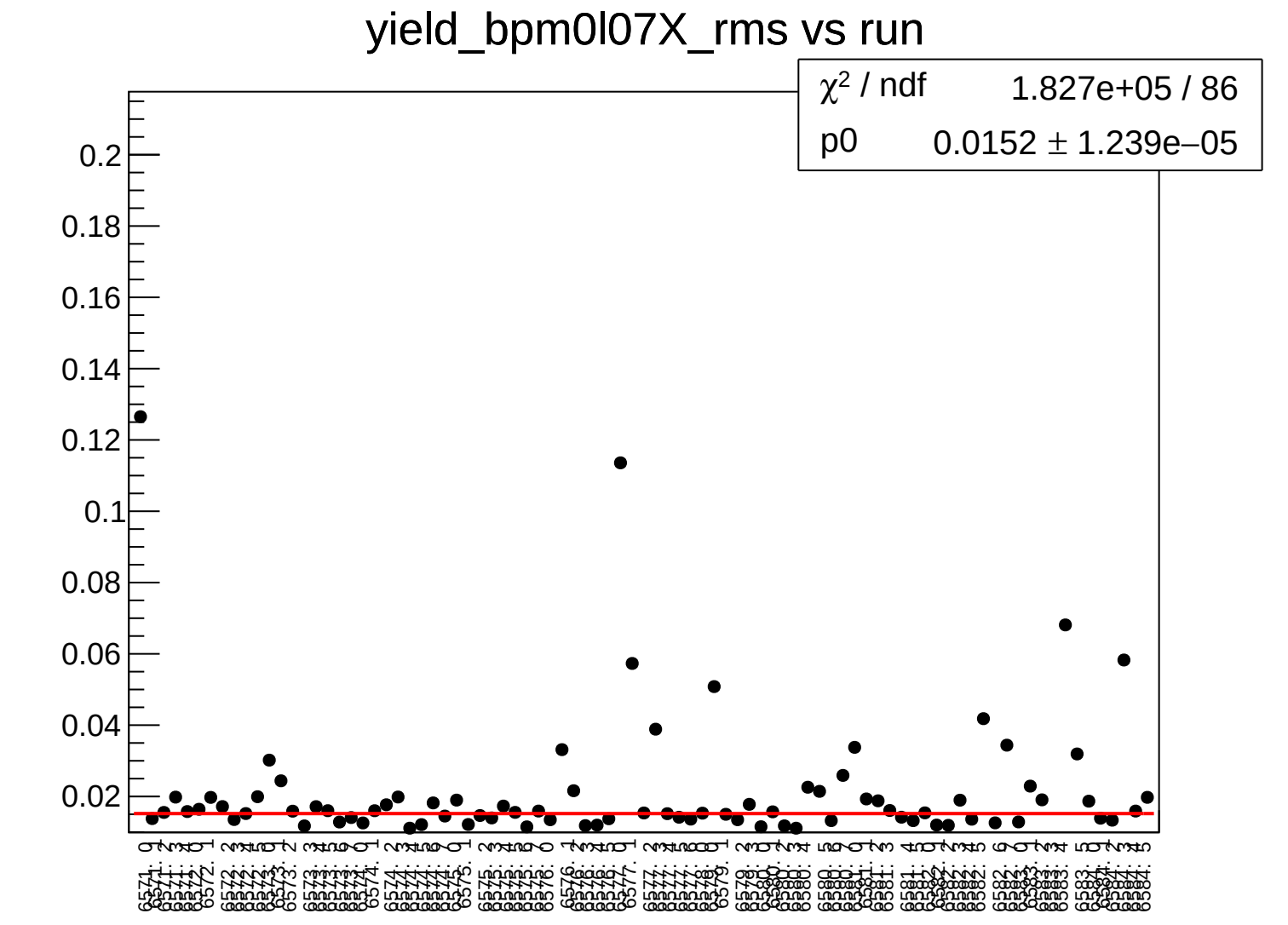

yield_bpm0l06Y_mean vs run
χ² / ndf 1.435e+07 / 86
p0 −2.242 ± 3.67e−06
−2.22
−2.23
−2.24
−2.25
−2.26
−2.27
−2.28
pull
Entries 87
Mean −24.19
Std Dev 0
500
0
−500
−1000
−1500

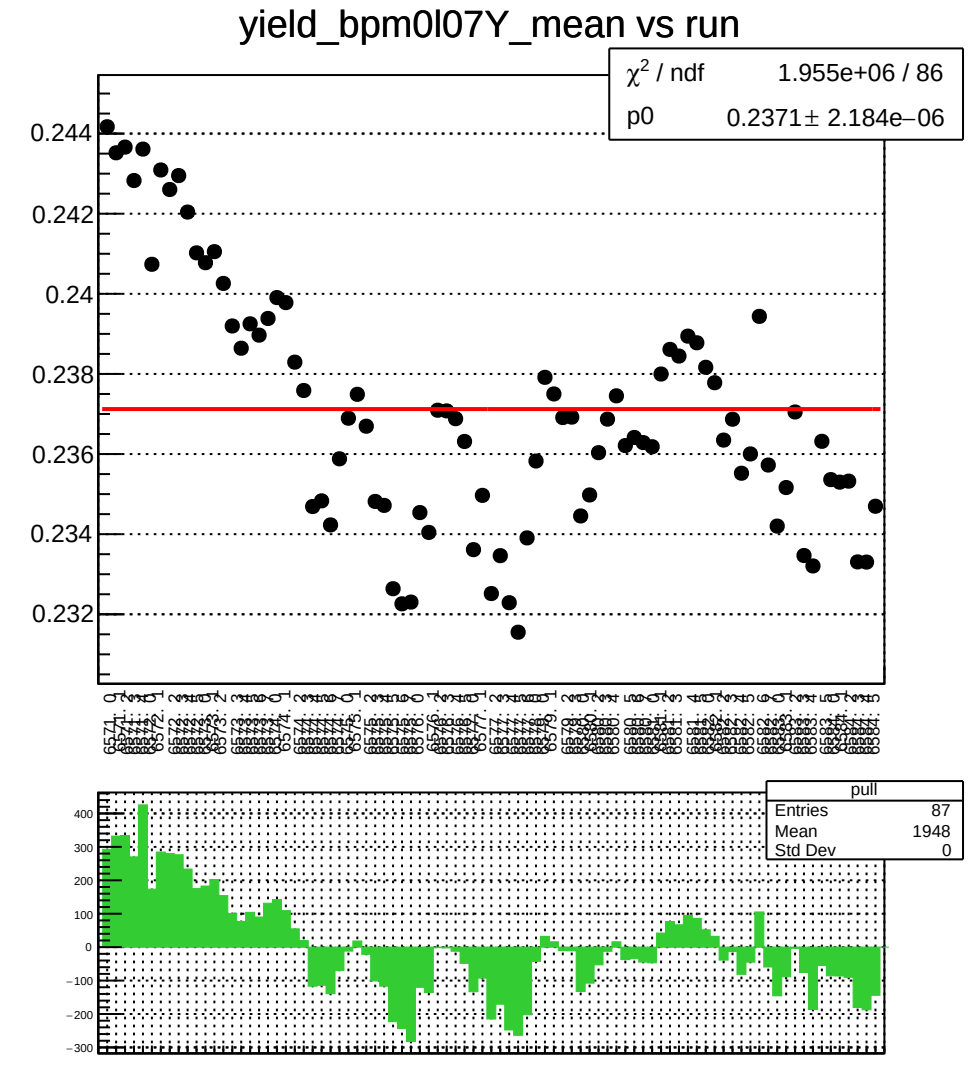

pull1D
Entries 87
Mean −3.263
Std Dev 4.303
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

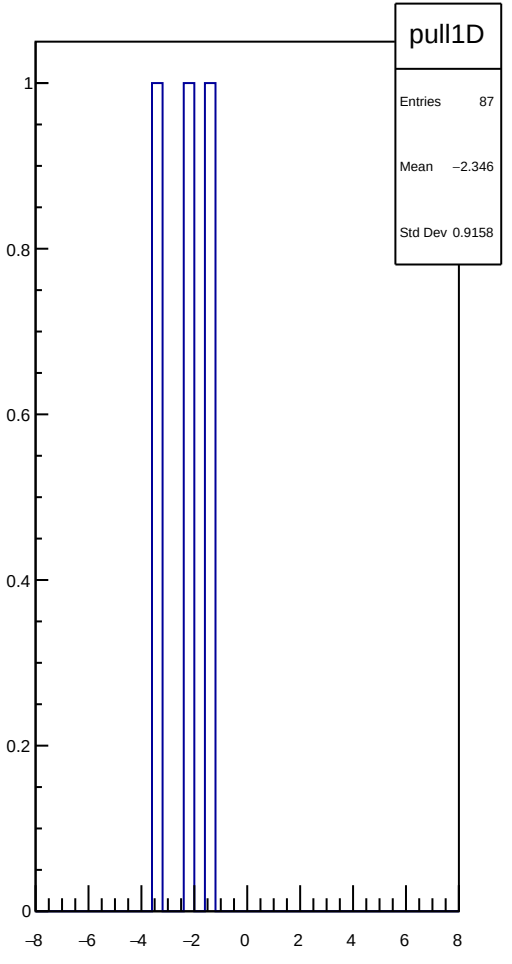

yield_bpm0l06Y_rms vs run
χ² / ndf 2.472e+05 / 86
p0 0.003113 ± 2.595e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

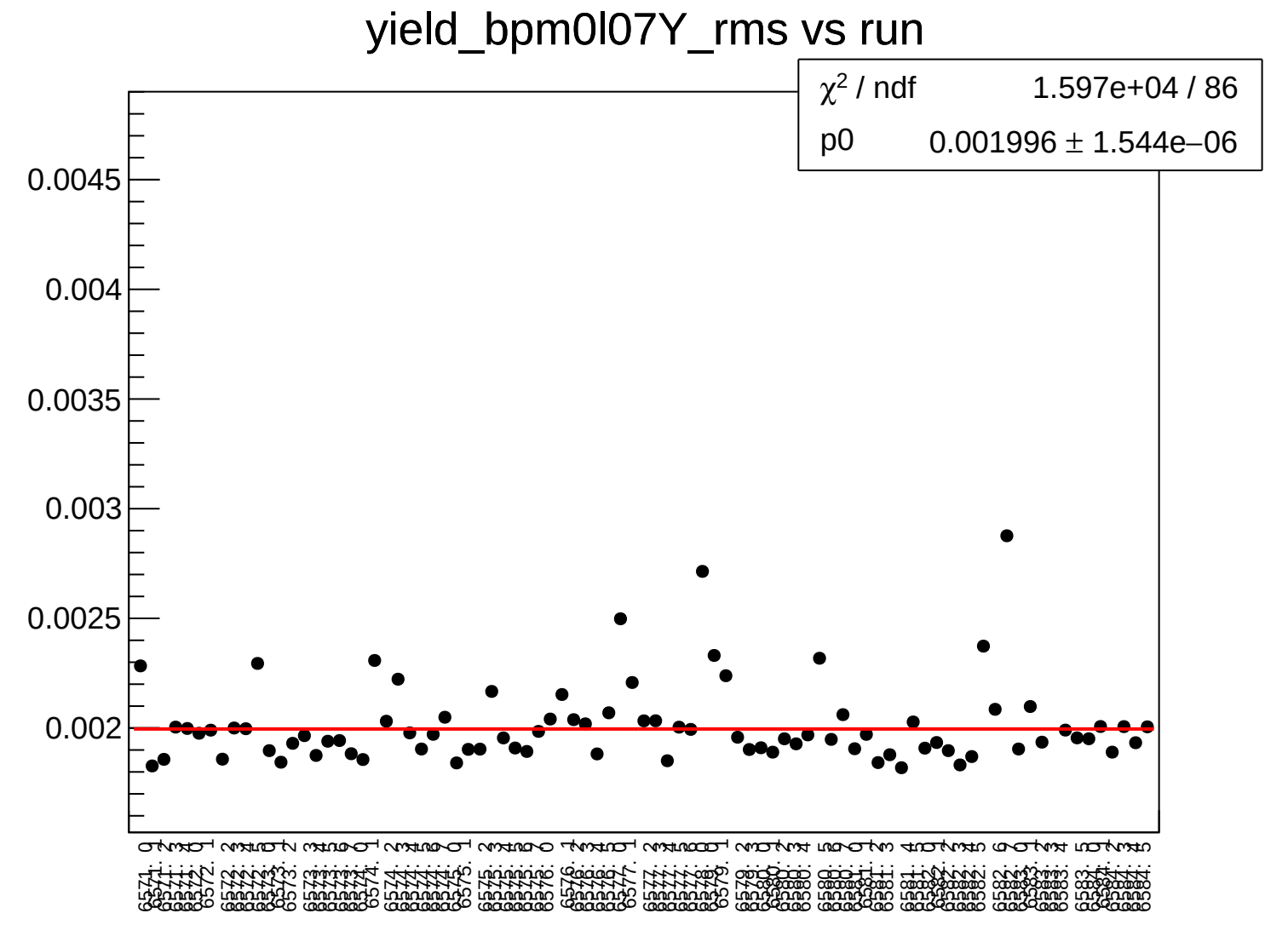

yield_bpm0l07X_mean vs run
χ² / ndf 5.244e+05 / 86
p0 −0.4011 ± 1.752e−05
pull
Entries 87
Mean 97.3
Std Dev 0

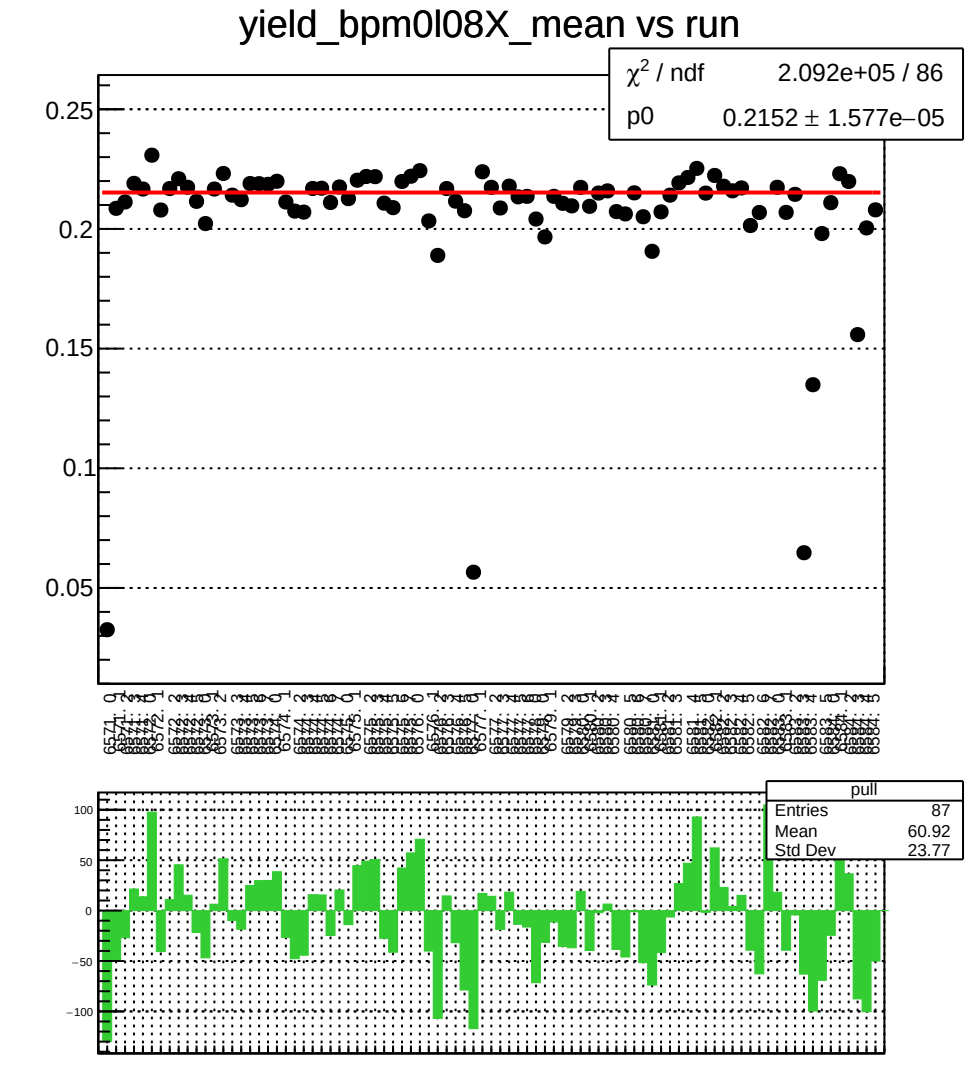

pull1D
Entries 87
Mean 0.8809
Std Dev 3.77

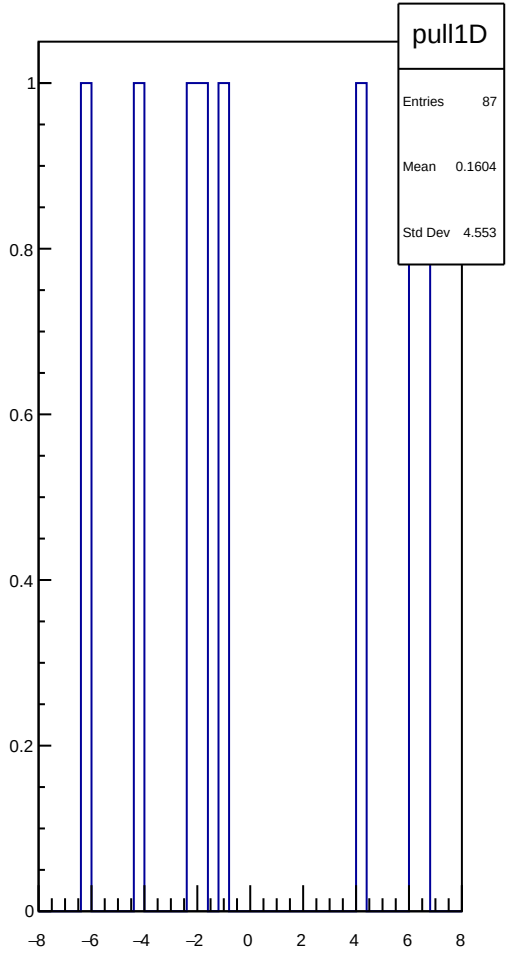

yield_bpm0l07X_rms vs run
χ² / ndf 1.827e+05 / 86
p0 0.0152 ± 1.239e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

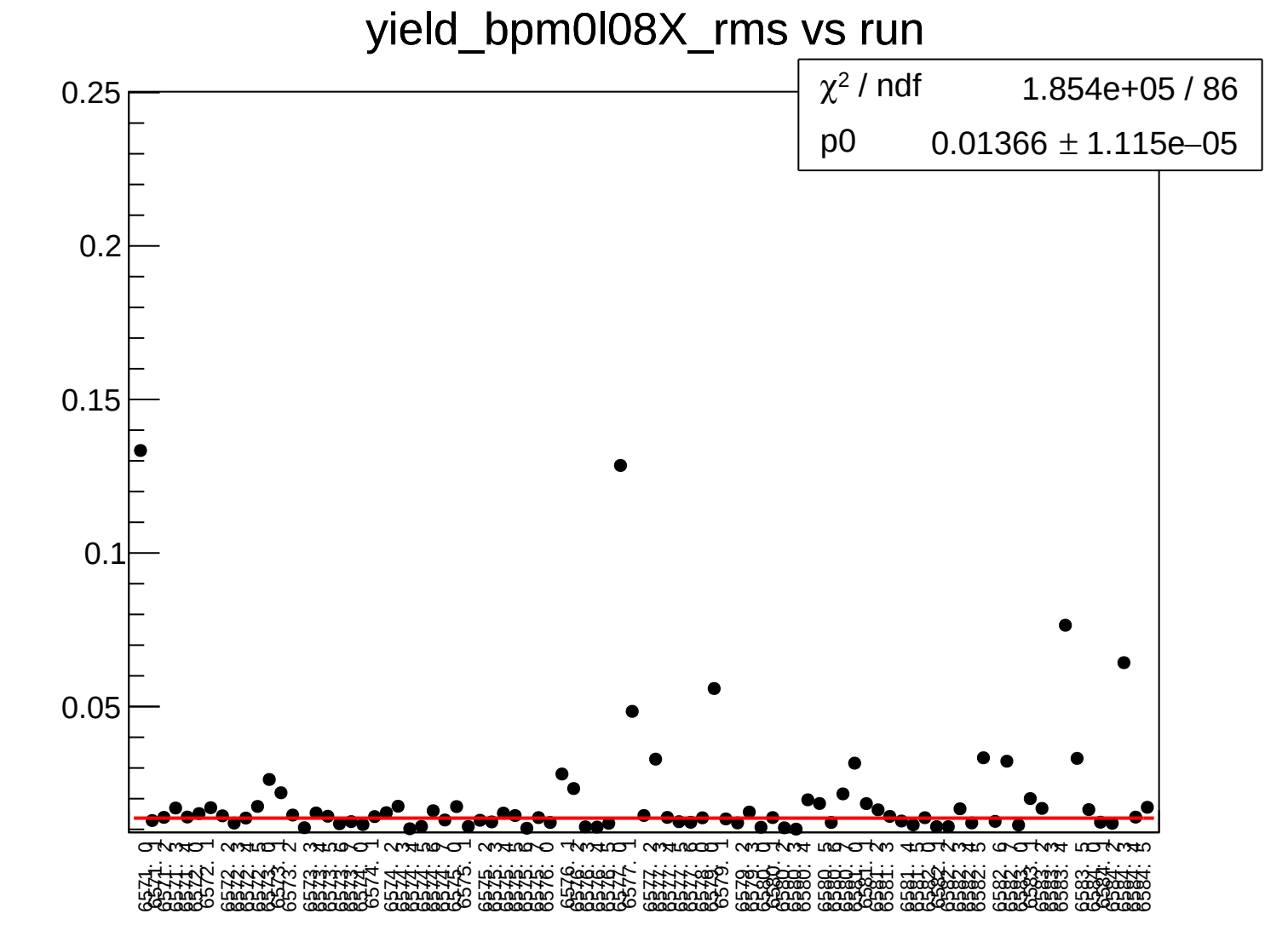

yield_bpm0l07Y_mean vs run
χ² / ndf 1.955e+06 / 86
p0 0.2371 ± 2.184e−06
0.244
0.242
0.24
0.238
0.236
0.234
0.232
pull
Entries 87
Mean 1948
Std Dev 0
400
300
200
100
0
−100
−200
−300

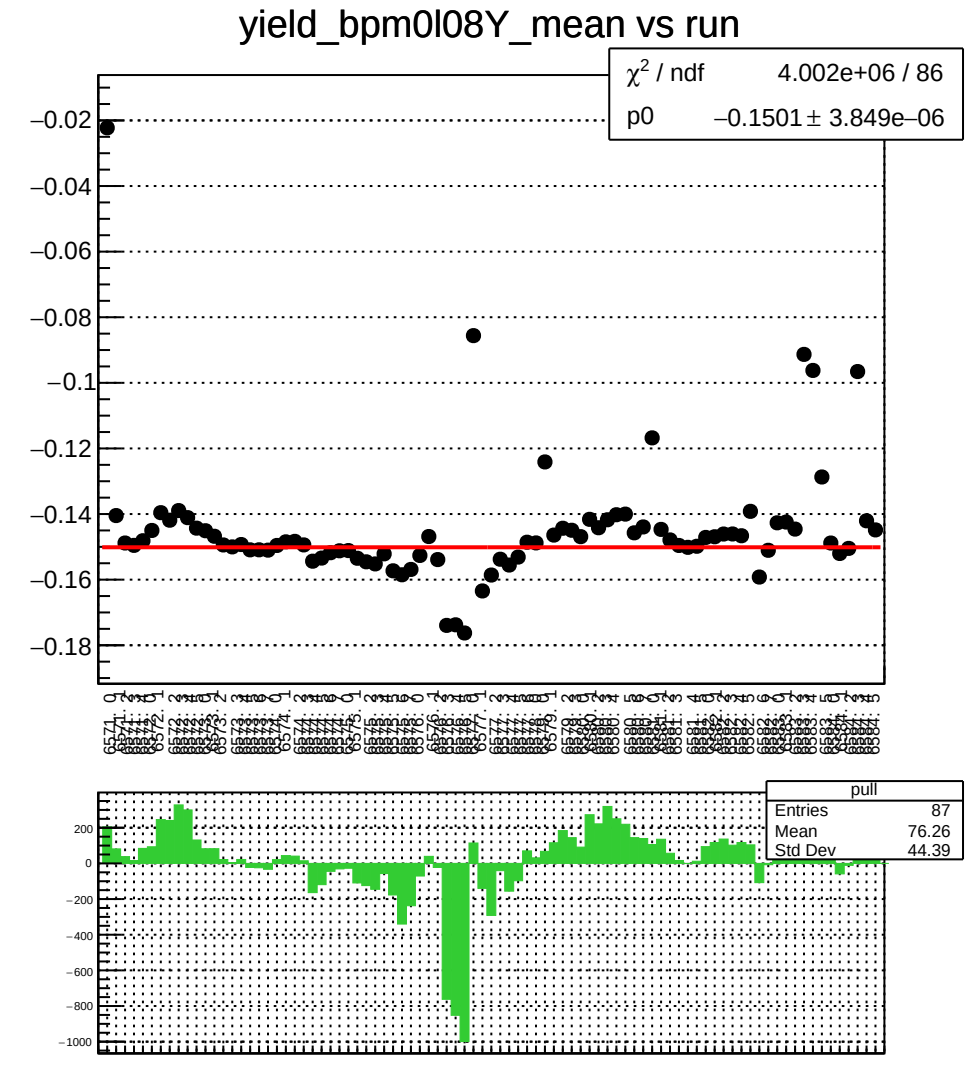

pull1D
Entries 87
Mean −2.346
Std Dev 0.9158
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

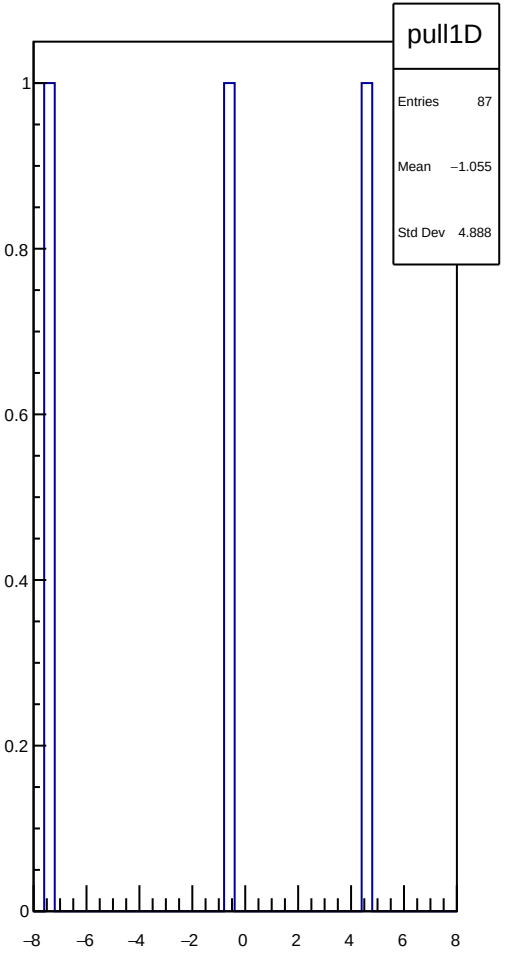

yield_bpm0l07Y_rms vs run
χ² / ndf 1.597e+04 / 86
p0 0.001996 ± 1.544e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

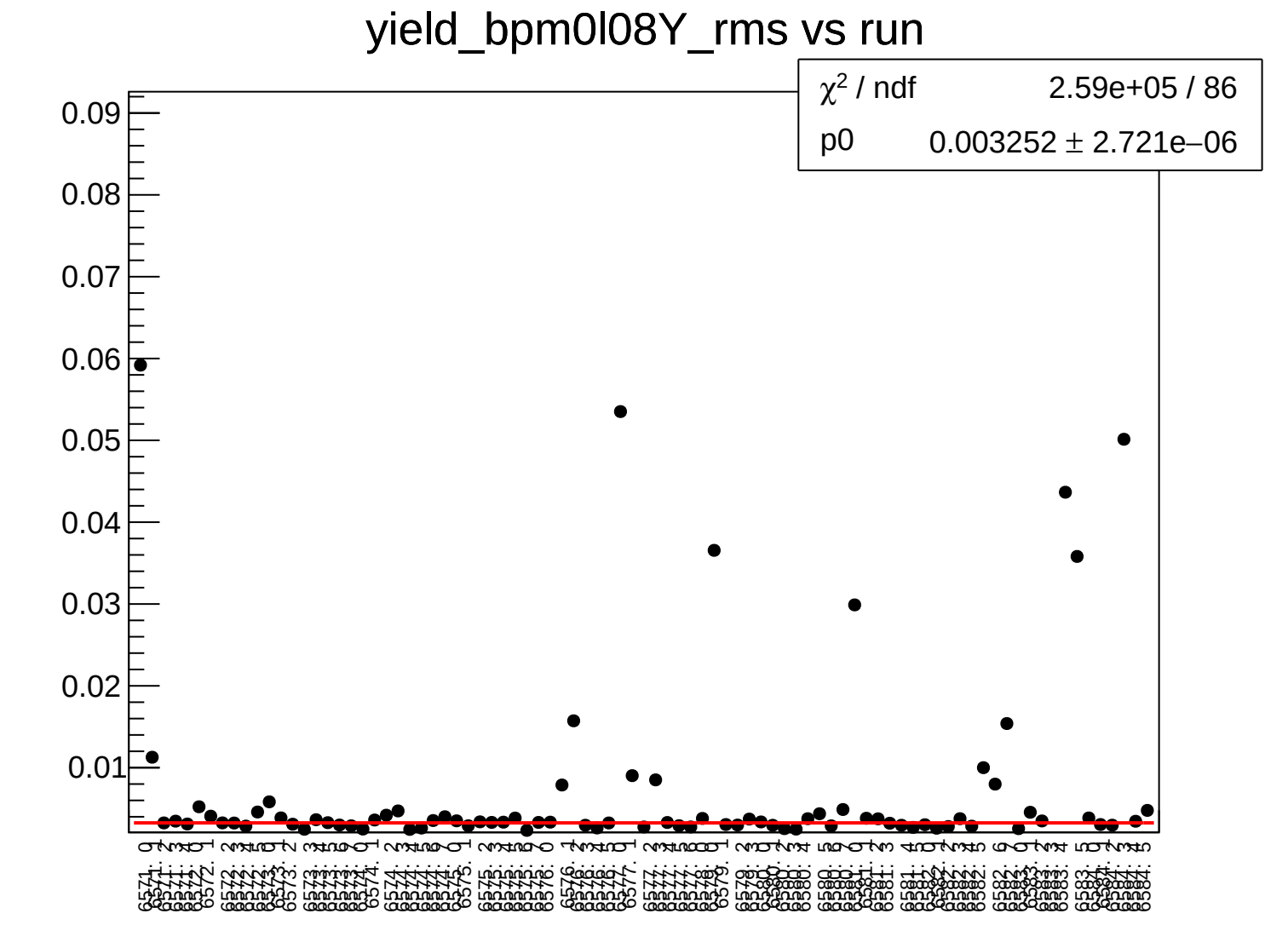

yield_bpm0l08X_mean vs run
χ² / ndf 2.092e+05 / 86
p0 0.2152 ± 1.577e−05
0.25
0.2
0.15
0.1
0.05
pull
Entries 87
Mean 60.92
Std Dev 23.77
100
50
0
−50
−100

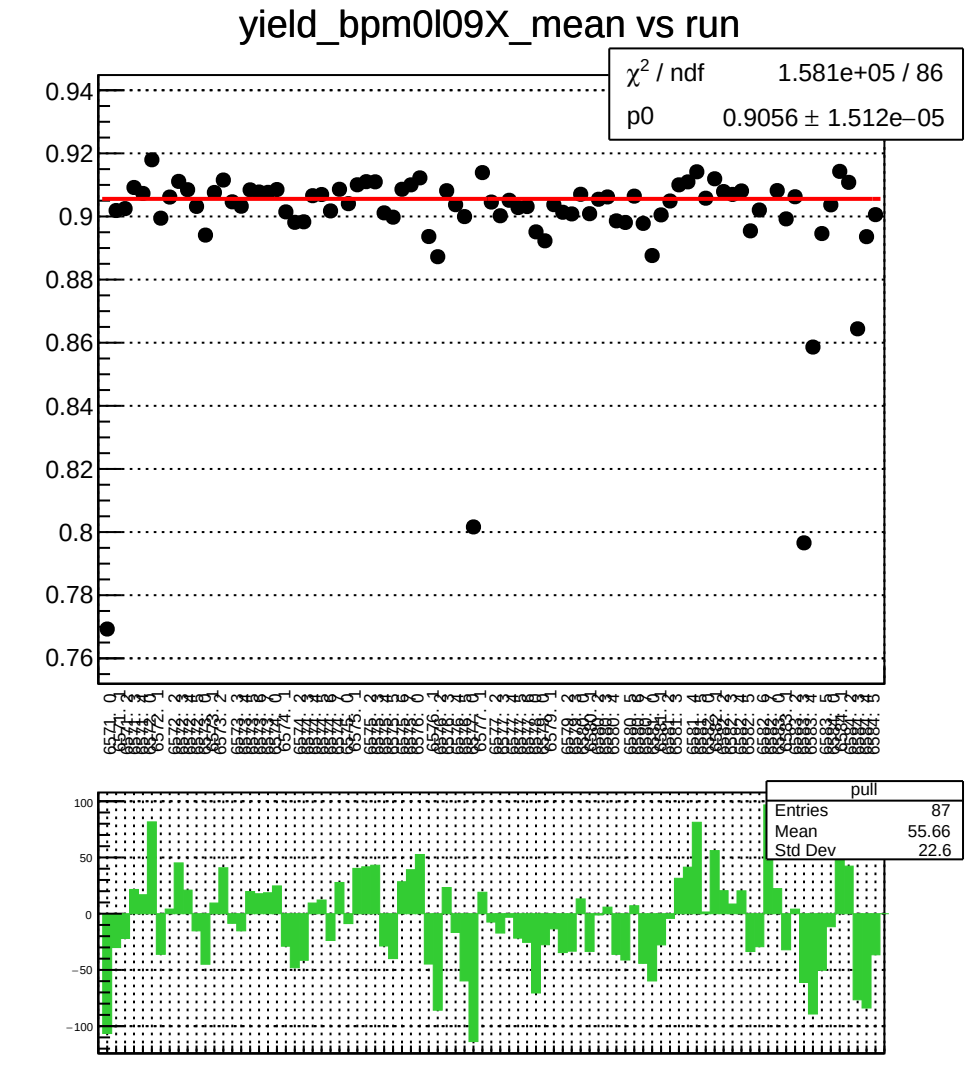

pull1D
Entries 87
Mean 0.1604
Std Dev 4.553
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

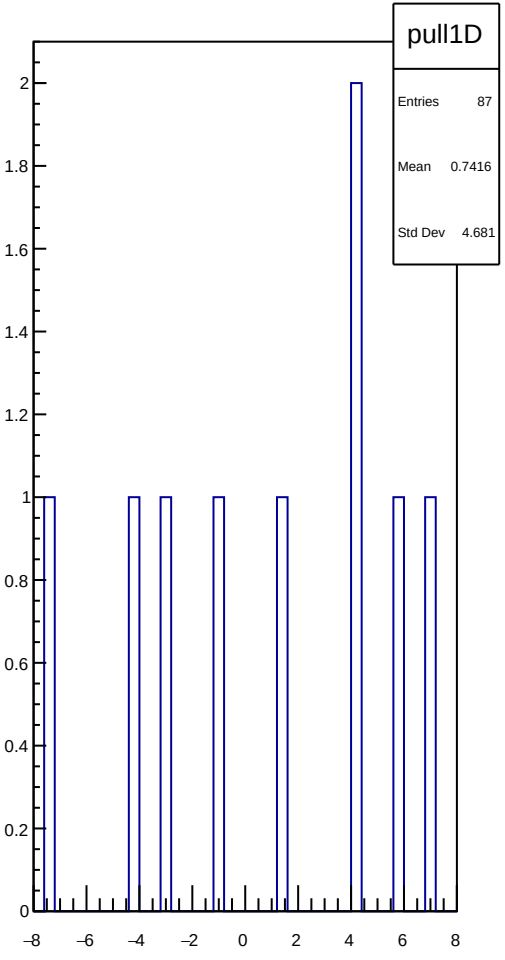

yield_bpm0l08X_rms vs run
χ² / ndf 1.854e+05 / 86
p0 0.01366 ± 1.115e−05
0.25
0.2
0.15
0.1
0.05

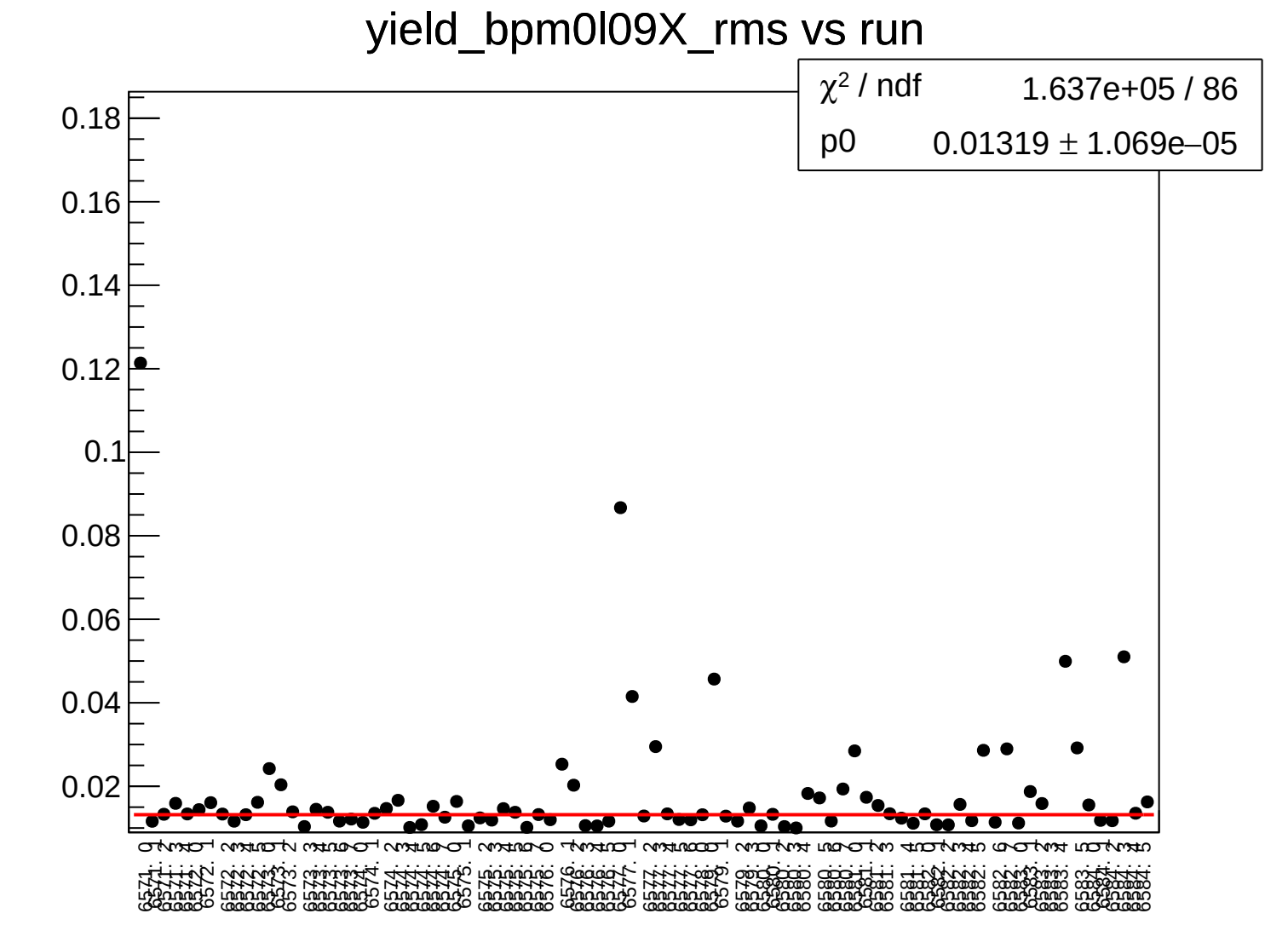

yield_bpm0l08Y_mean vs run
χ² / ndf 4.002e+06 / 86
p0 −0.1501 ± 3.849e−06
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 87
Mean 76.26
Std Dev 44.39
200
0
−200
−400
−600
−800
−1000

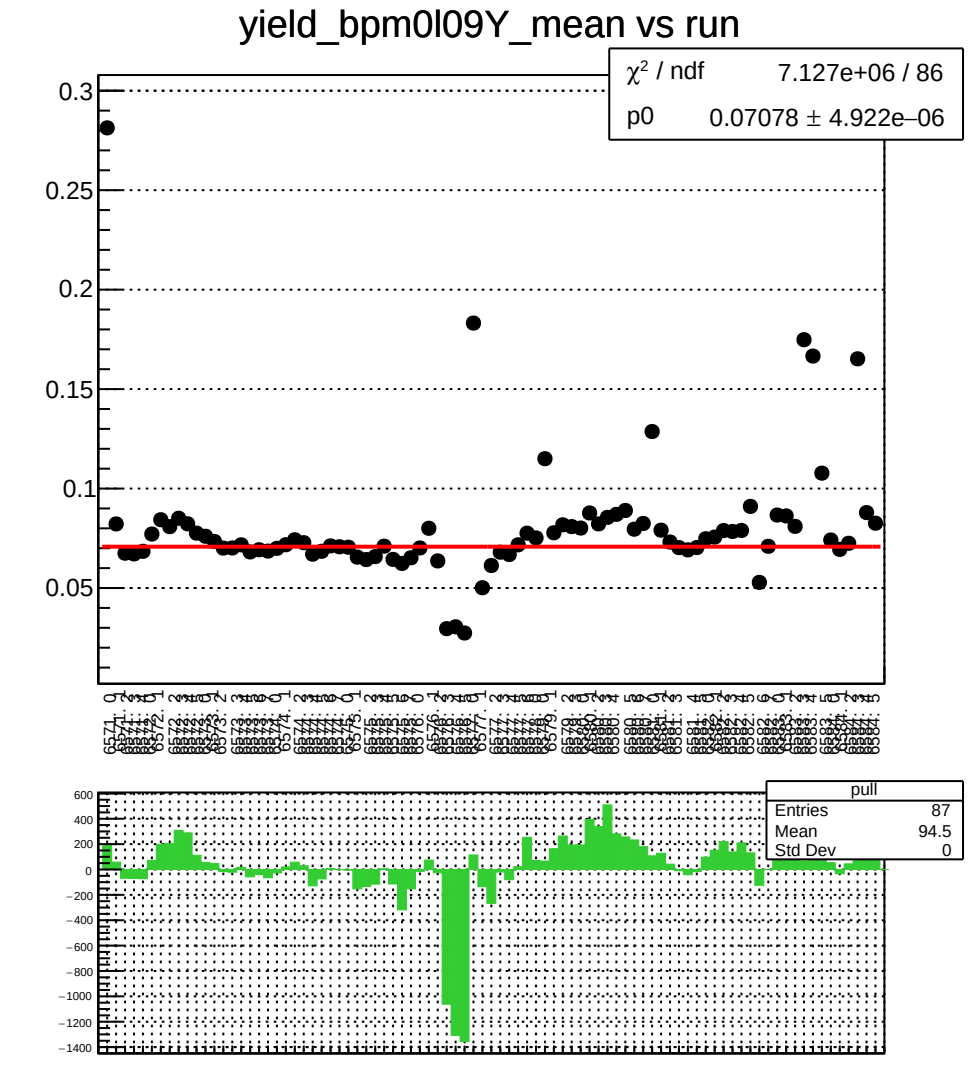

pull1D
Entries 87
Mean −1.055
Std Dev 4.888
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

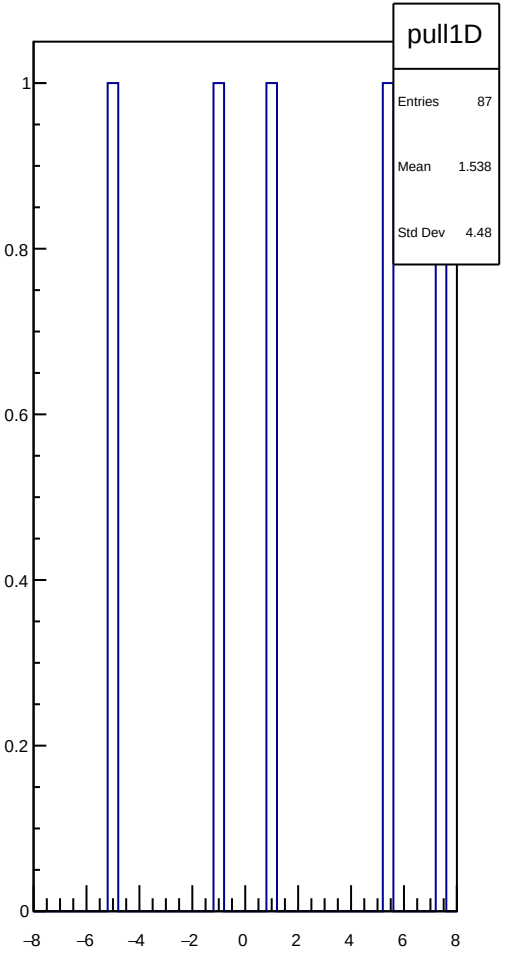

yield_bpm0l08Y_rms vs run
χ² / ndf 2.59e+05 / 86
p0 0.003252 ± 2.721e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

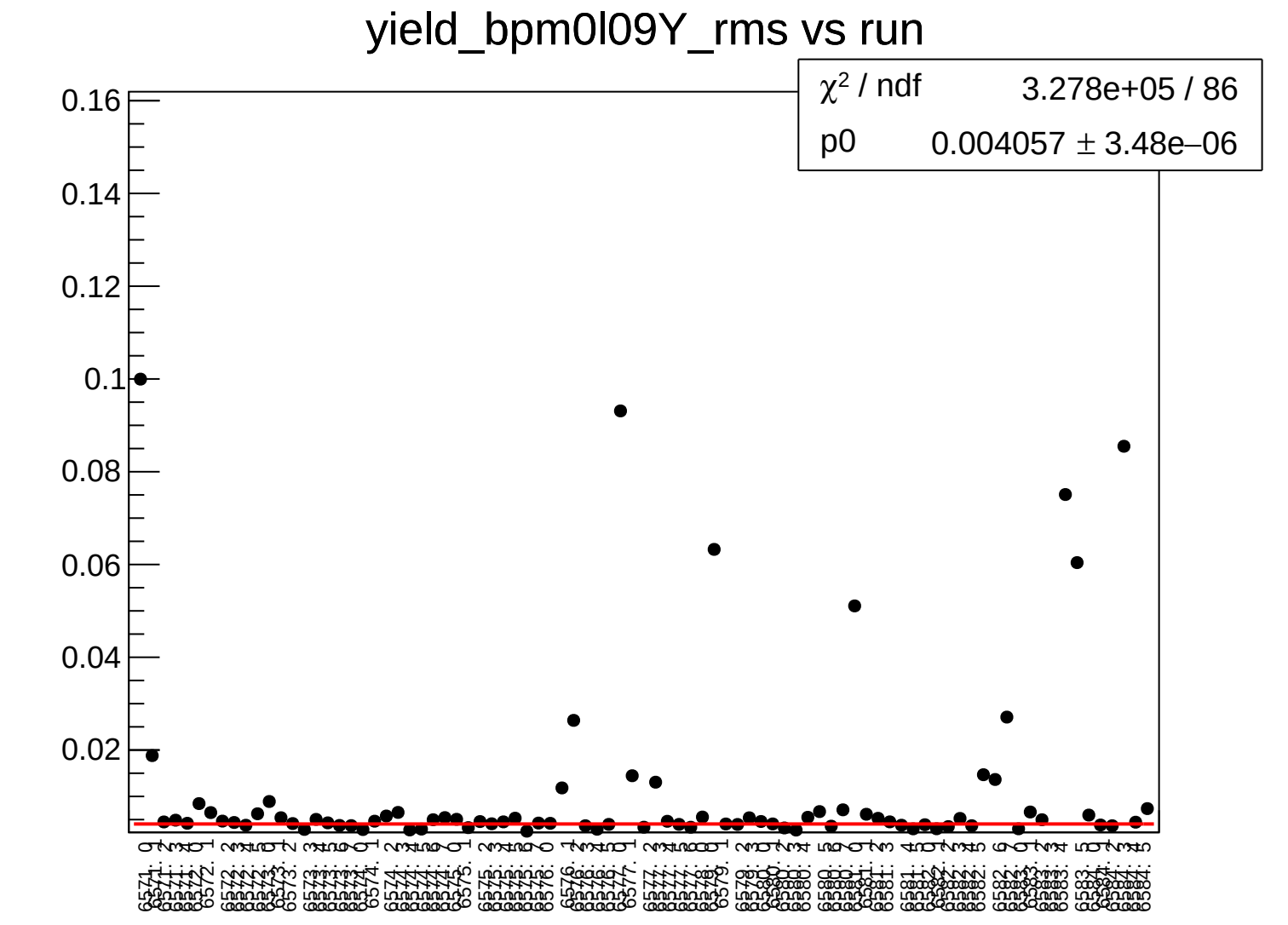

yield_bpm0l09X_mean vs run
χ² / ndf 1.581e+05 / 86
p0 0.9056 ± 1.512e−05
pull
Entries 87
Mean 55.66
Std Dev 22.6

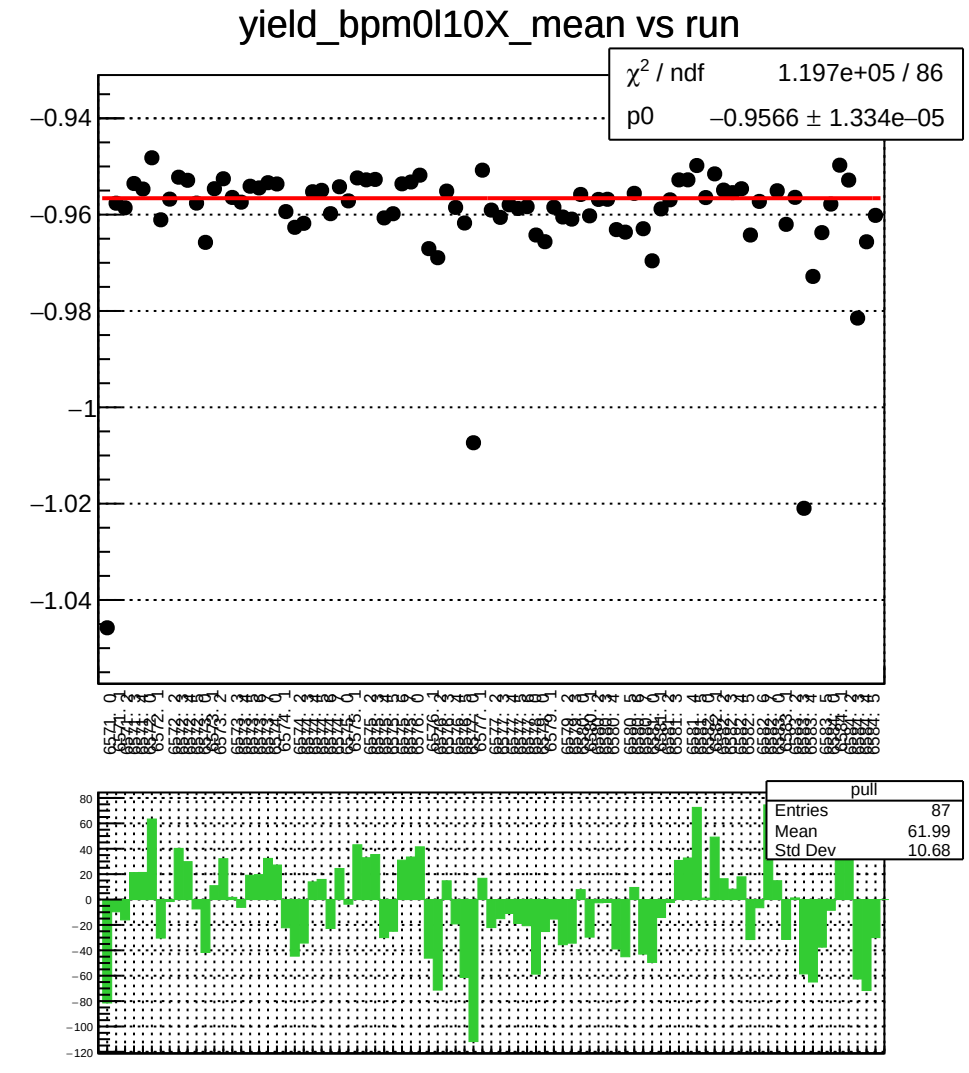

pull1D
Entries 87
Mean 0.7416
Std Dev 4.681

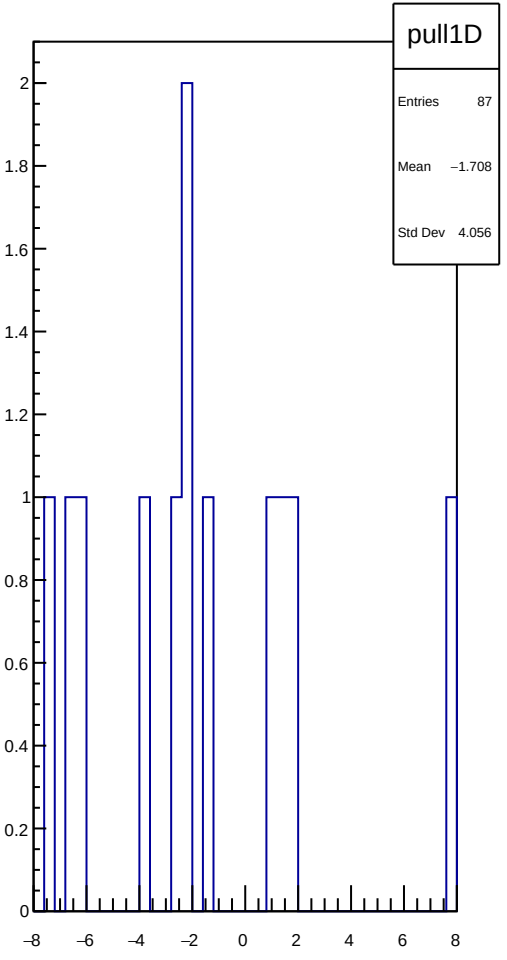

yield_bpm0l09X_rms vs run
χ² / ndf 1.637e+05 / 86
p0 0.01319 ± 1.069e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

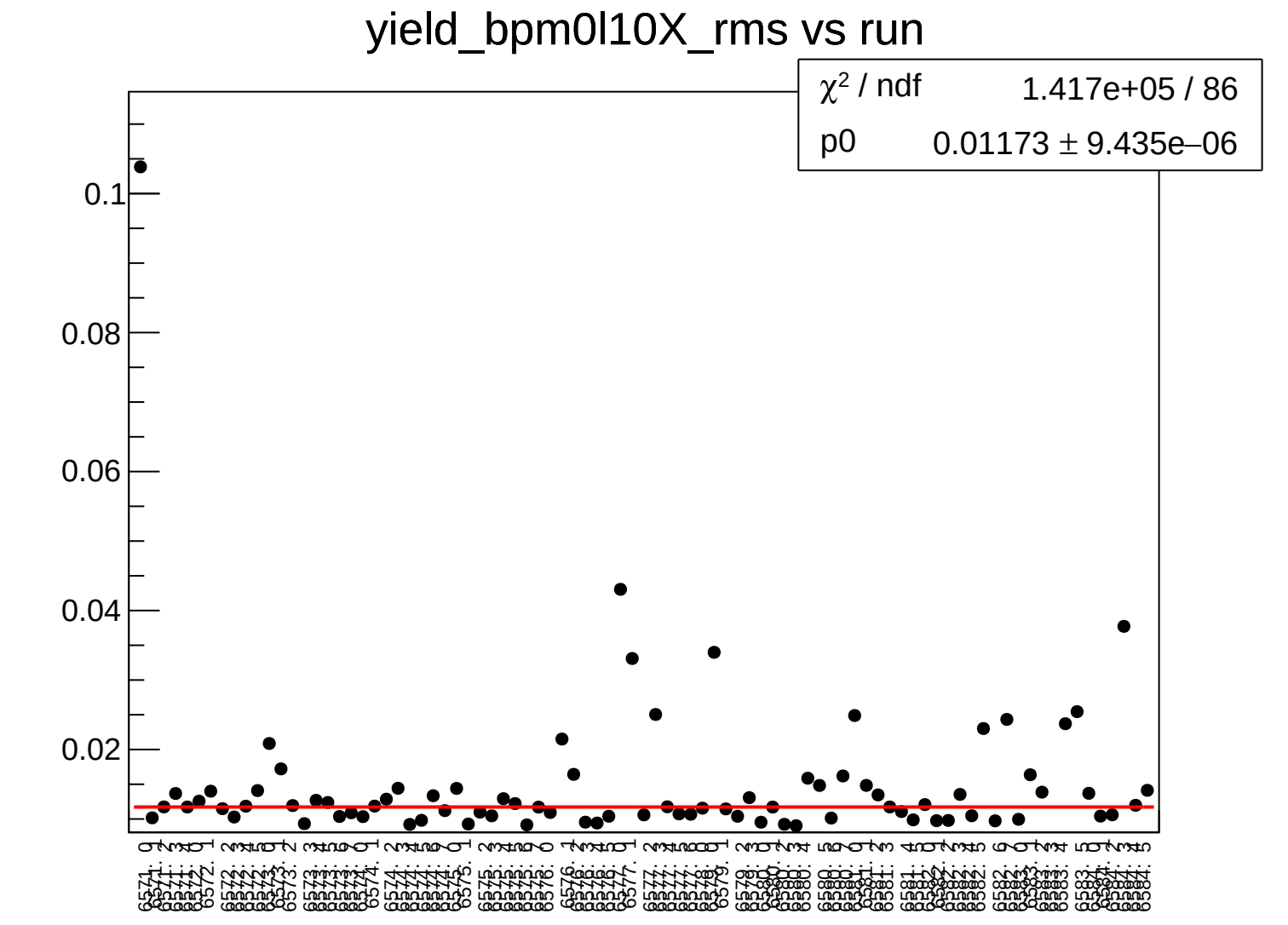

yield_bpm0l09Y_mean vs run
χ² / ndf 7.127e+06 / 86
p0 0.07078 ± 4.922e−06
pull
Entries 87
Mean 94.5
Std Dev 0

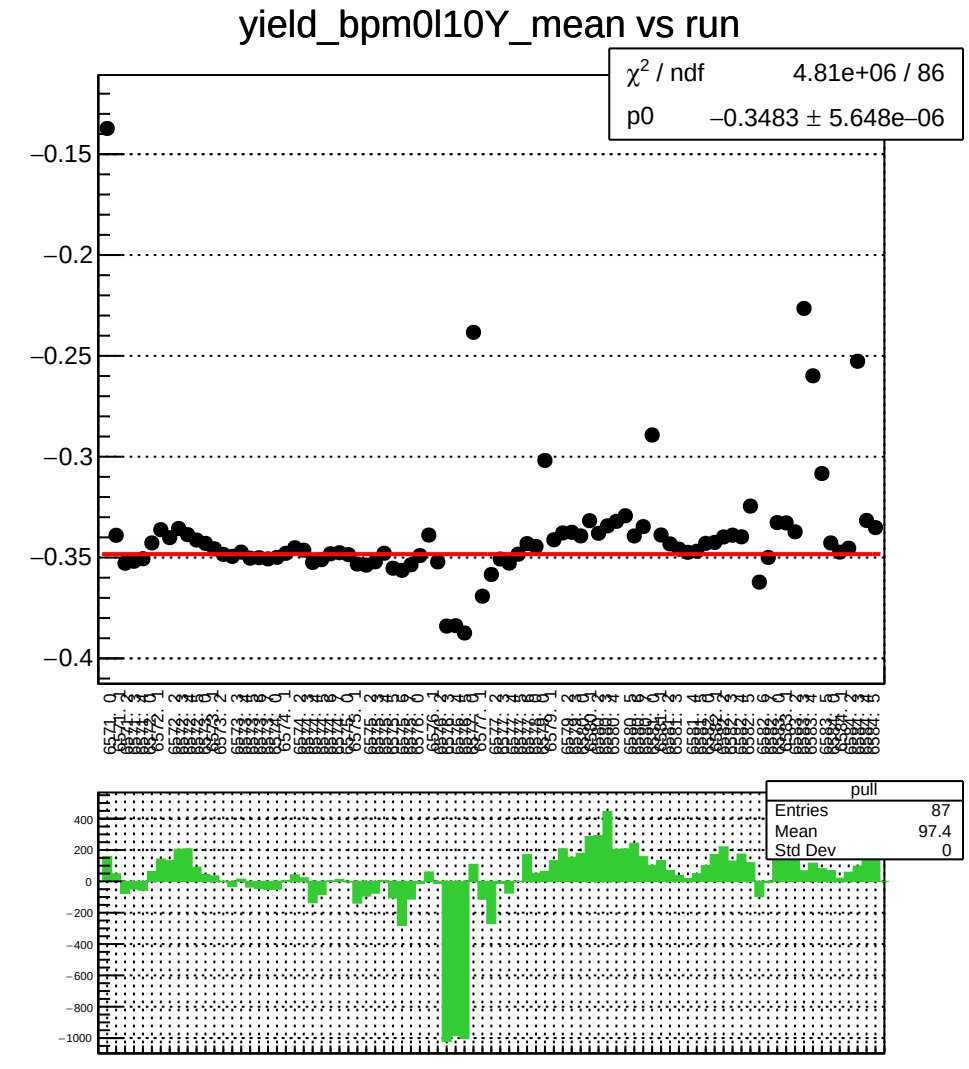

pull1D
Entries 87
Mean 1.538
Std Dev 4.48

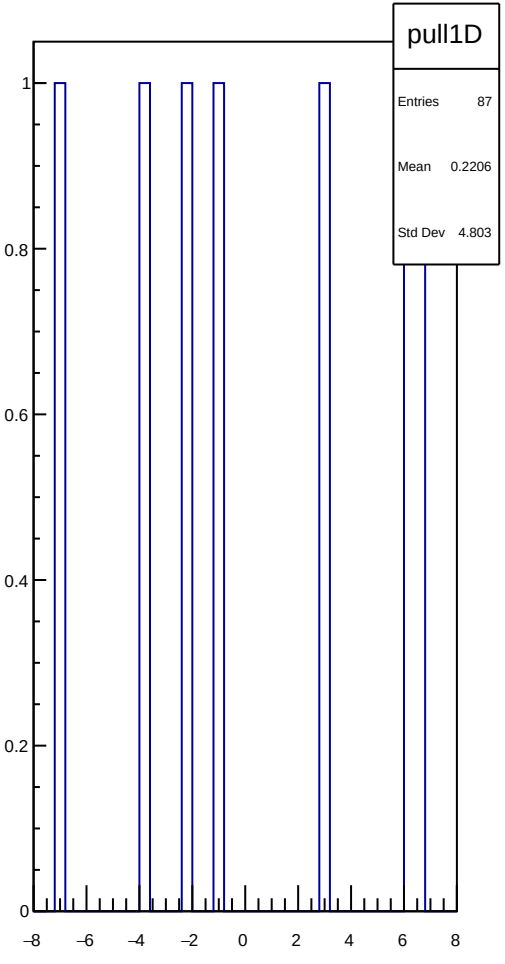

yield_bpm0l09Y_rms vs run
χ² / ndf 3.278e+05 / 86
p0 0.004057 ± 3.48e−06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

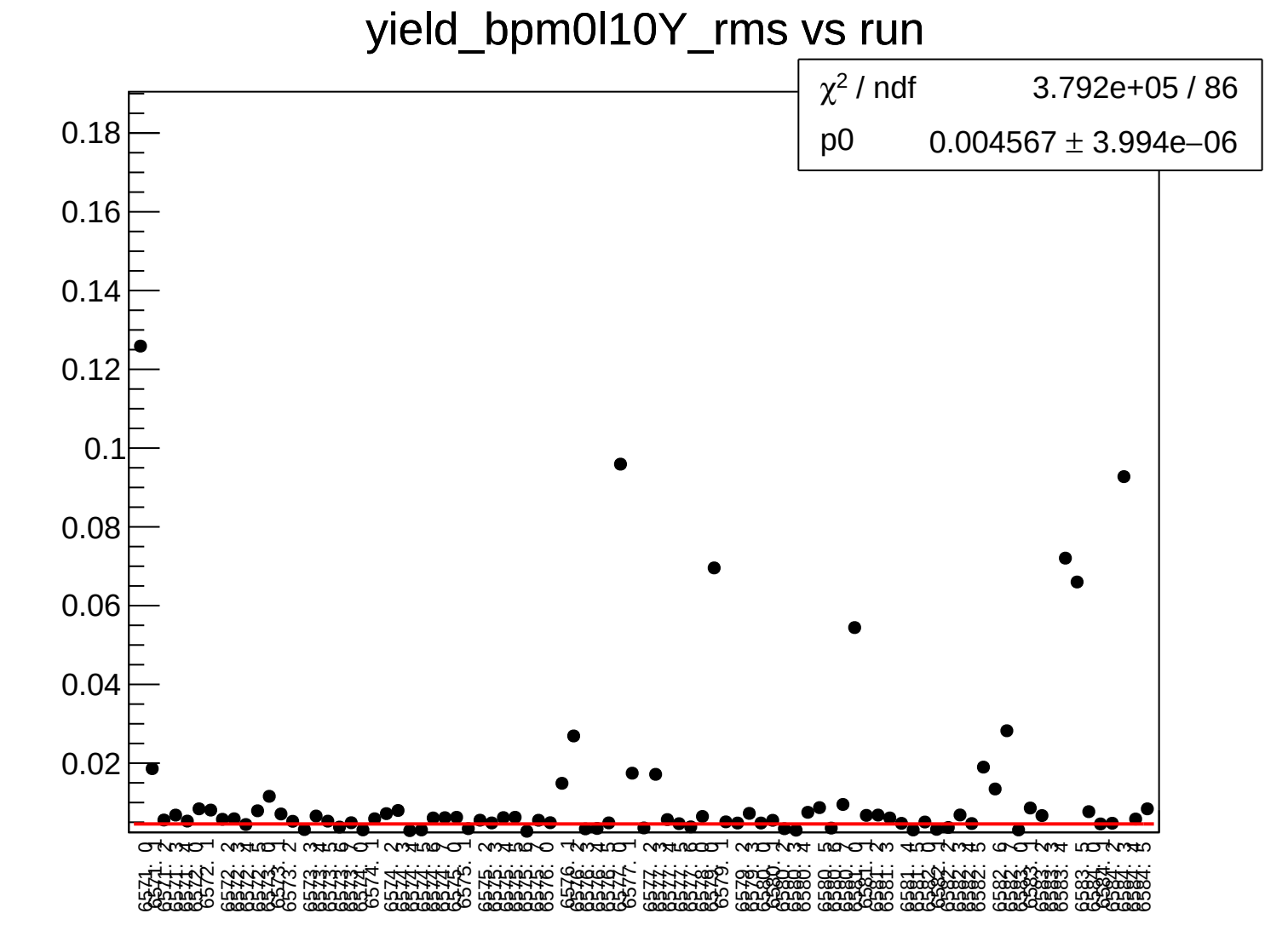

yield_bpm0l10X_mean vs run
χ² / ndf 1.197e+05 / 86
p0 −0.9566 ± 1.334e−05
−0.94
−0.96
−0.98
−1
−1.02
−1.04
pull
Entries 87
Mean 61.99
Std Dev 10.68
80
60
40
20
0
−20
−40
−60
−80
−100
−120

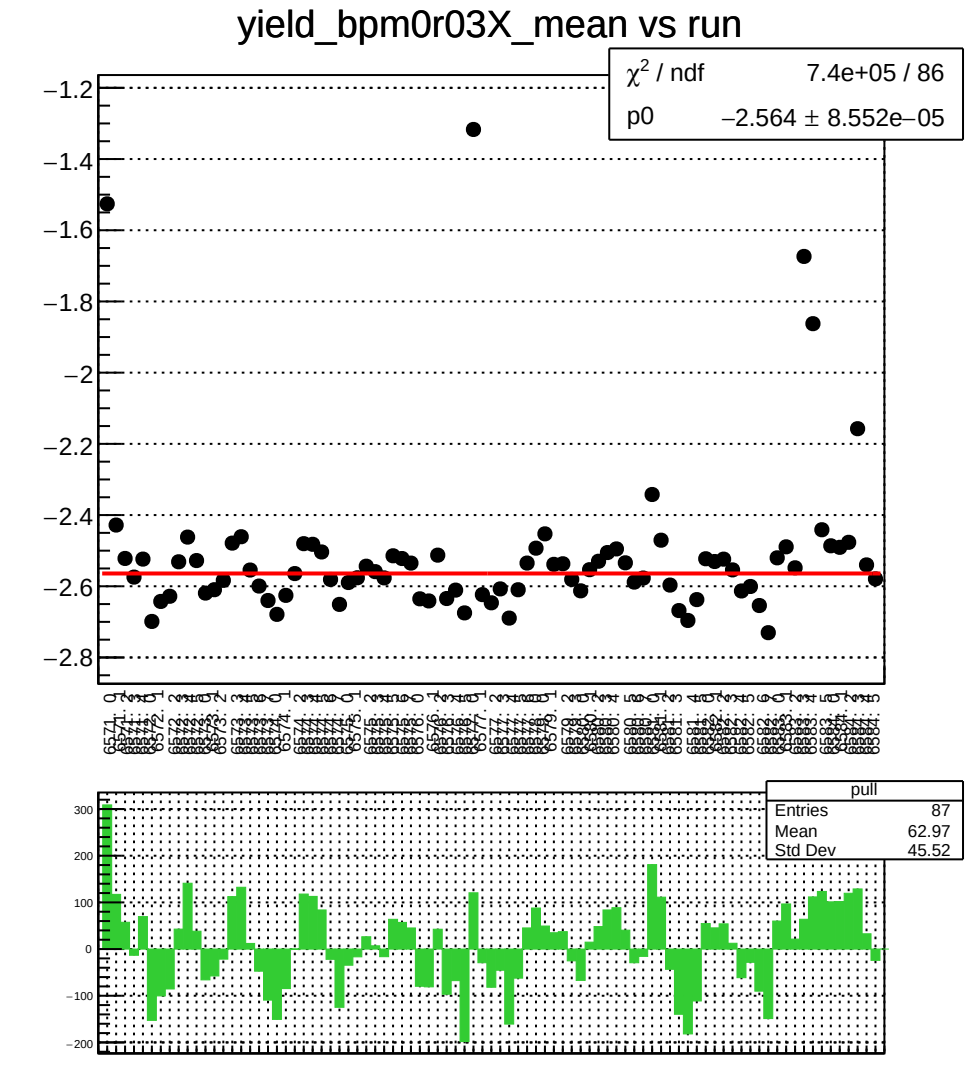

pull1D
Entries 87
Mean −1.708
Std Dev 4.056
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

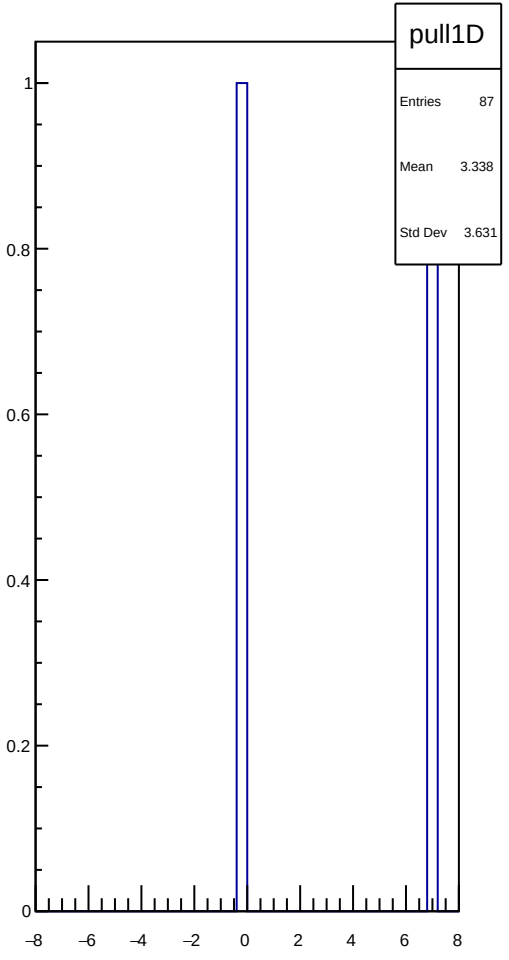

yield_bpm0l10X_rms vs run
χ² / ndf 1.417e+05 / 86
p0 0.01173 ± 9.435e–06
0.1
0.08
0.06
0.04
0.02

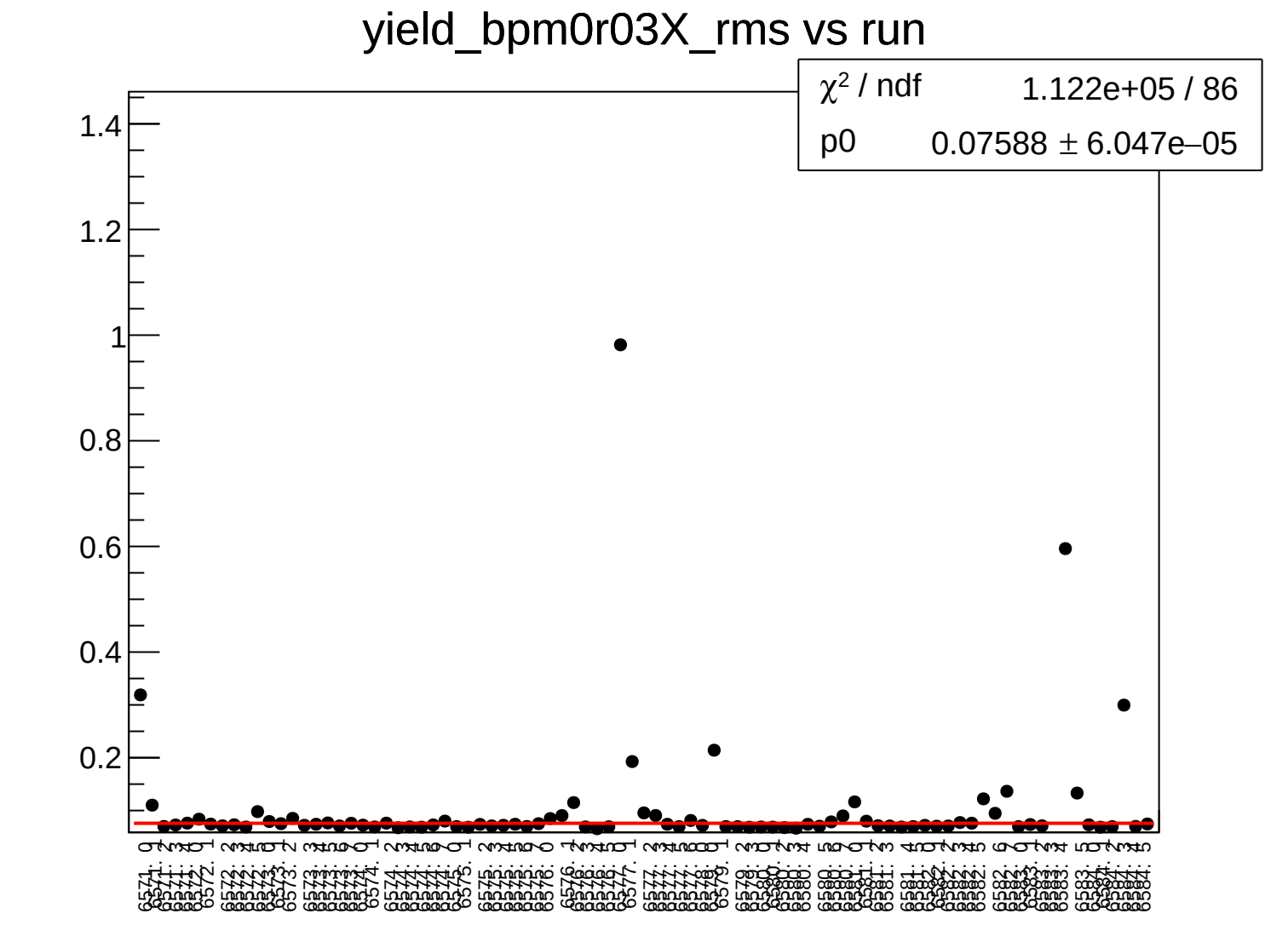

yield_bpm0l10Y_mean vs run
χ² / ndf 4.81e+06 / 86
p0 −0.3483 ± 5.648e−06
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 87
Mean 97.4
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

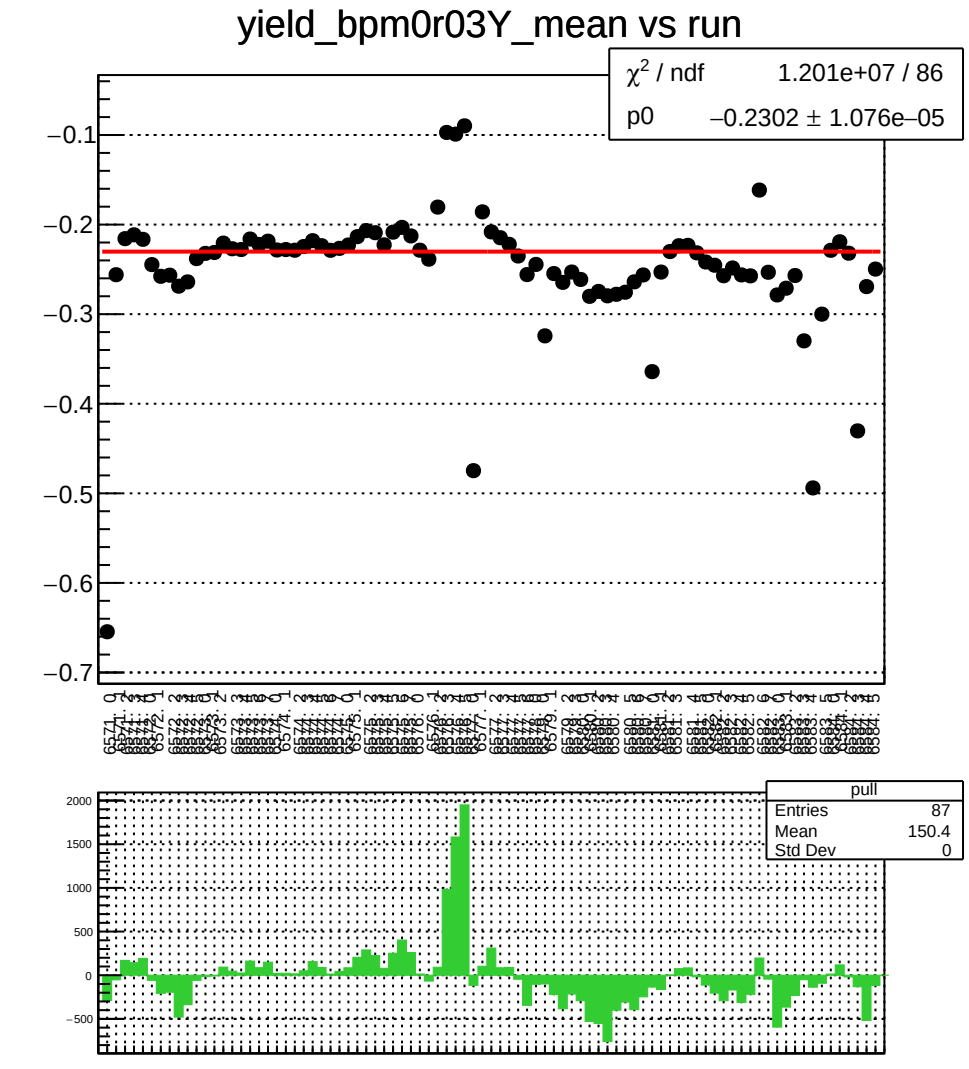

pull1D
Entries 87
Mean 0.2206
Std Dev 4.803
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

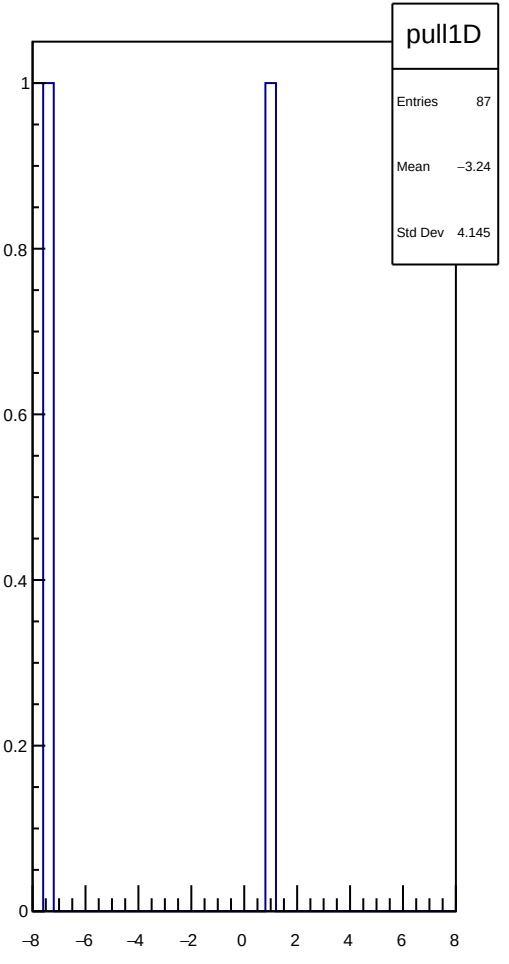

yield_bpm0l10Y_rms vs run
χ² / ndf 3.792e+05 / 86
p0 0.004567 ± 3.994e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

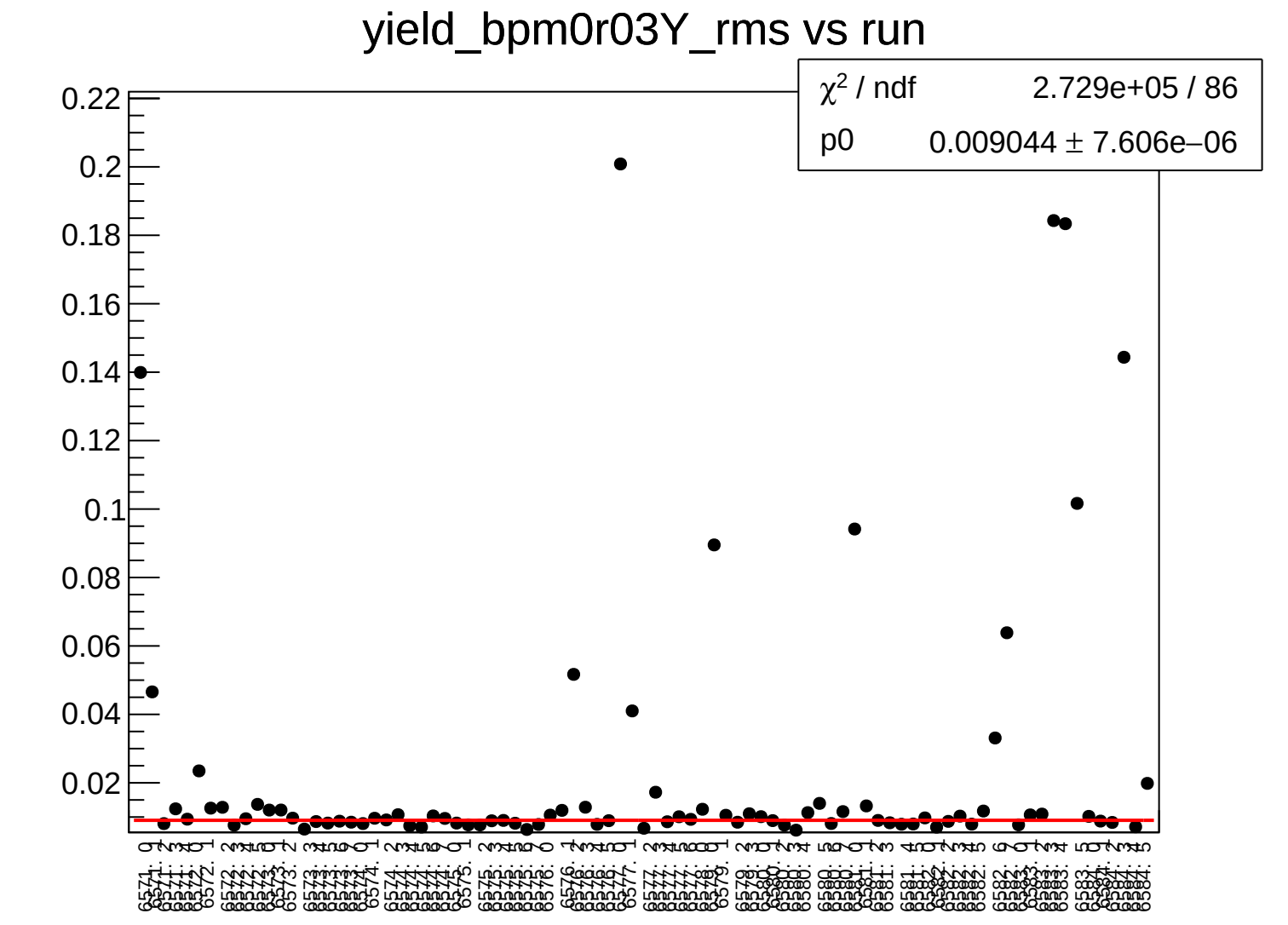

yield_bpm0r03X_mean vs run
χ² / ndf 7.4e+05 / 86
p0 −2.564 ± 8.552e−05
pull
Entries 87
Mean 62.97
Std Dev 45.52

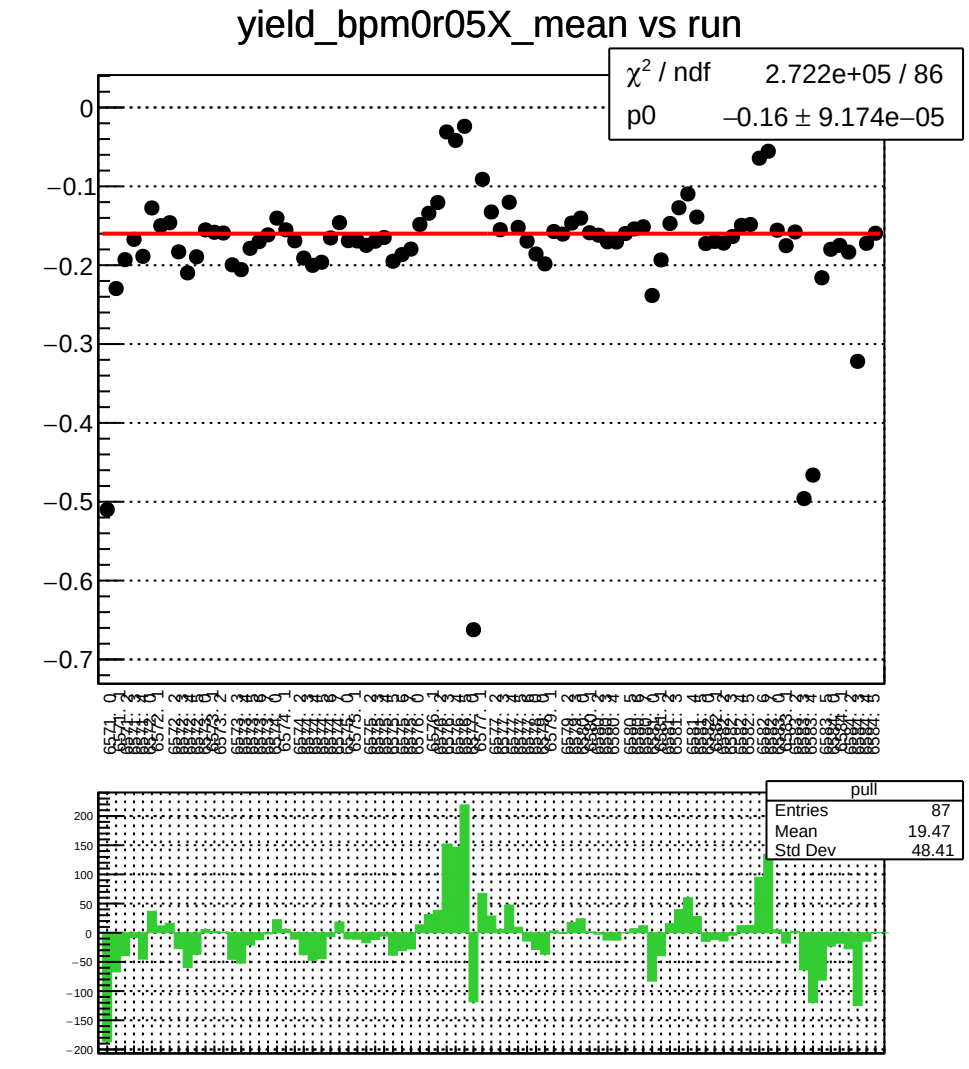

pull1D
Entries 87
Mean 3.338
Std Dev 3.631

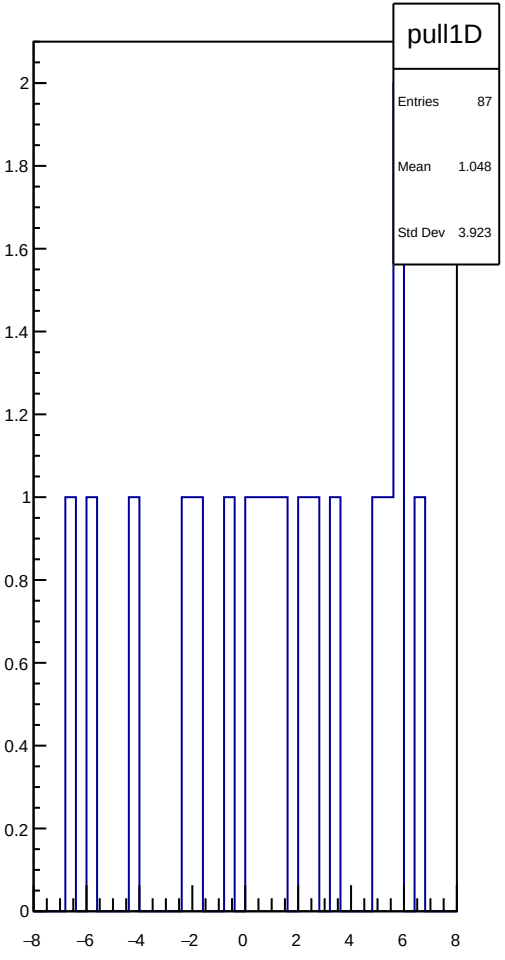

yield_bpm0r03X_rms vs run
χ² / ndf 1.122e+05 / 86
p0 0.07588 ± 6.047e–05
1.4
1.2
1
0.8
0.6
0.4
0.2

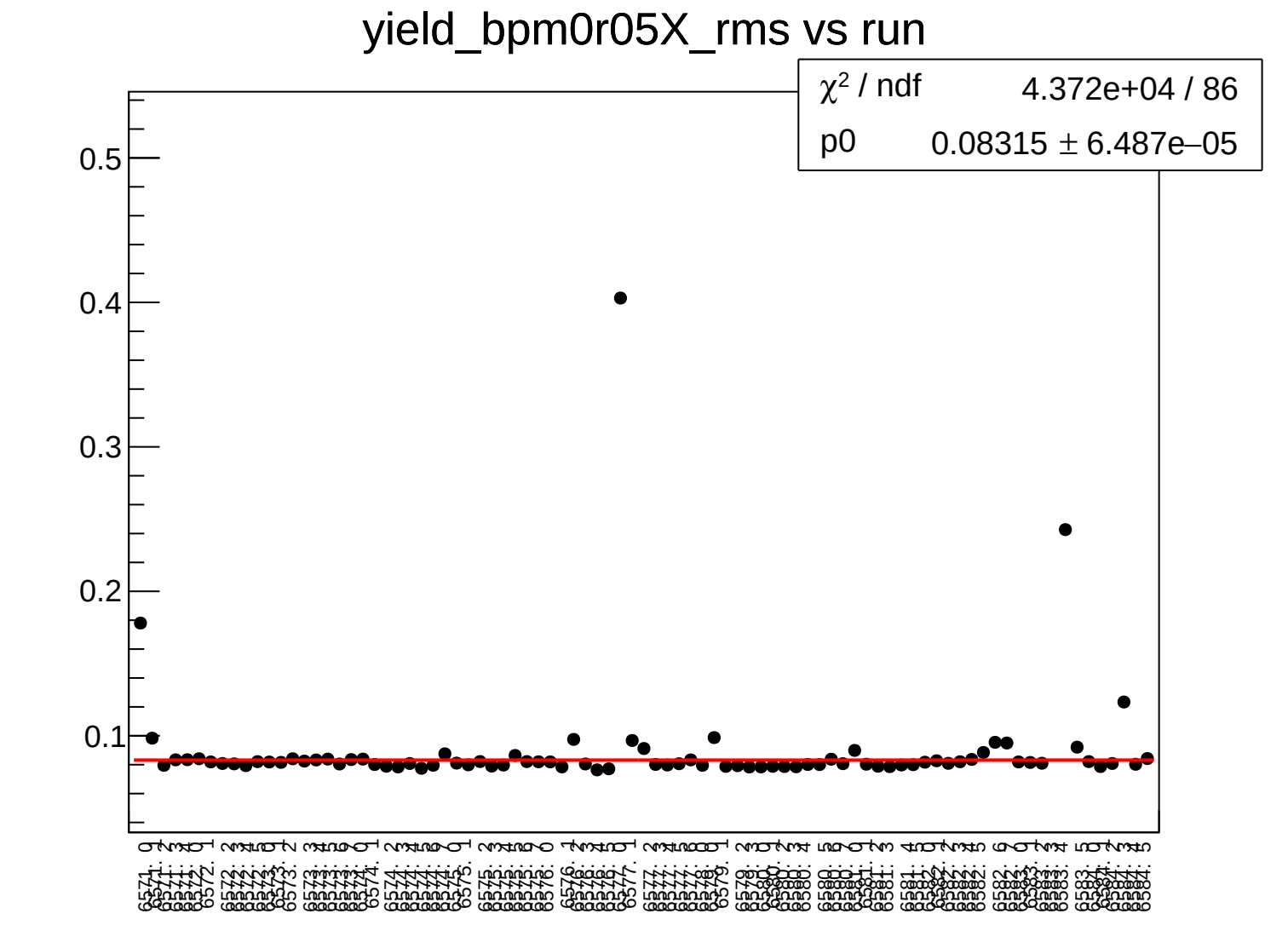

yield_bpm0r03Y_mean vs run
χ² / ndf 1.201e+07 / 86
p0 −0.2302 ± 1.076e−05
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull
Entries 87
Mean 150.4
Std Dev 0
2000
1500
1000
500
0
−500

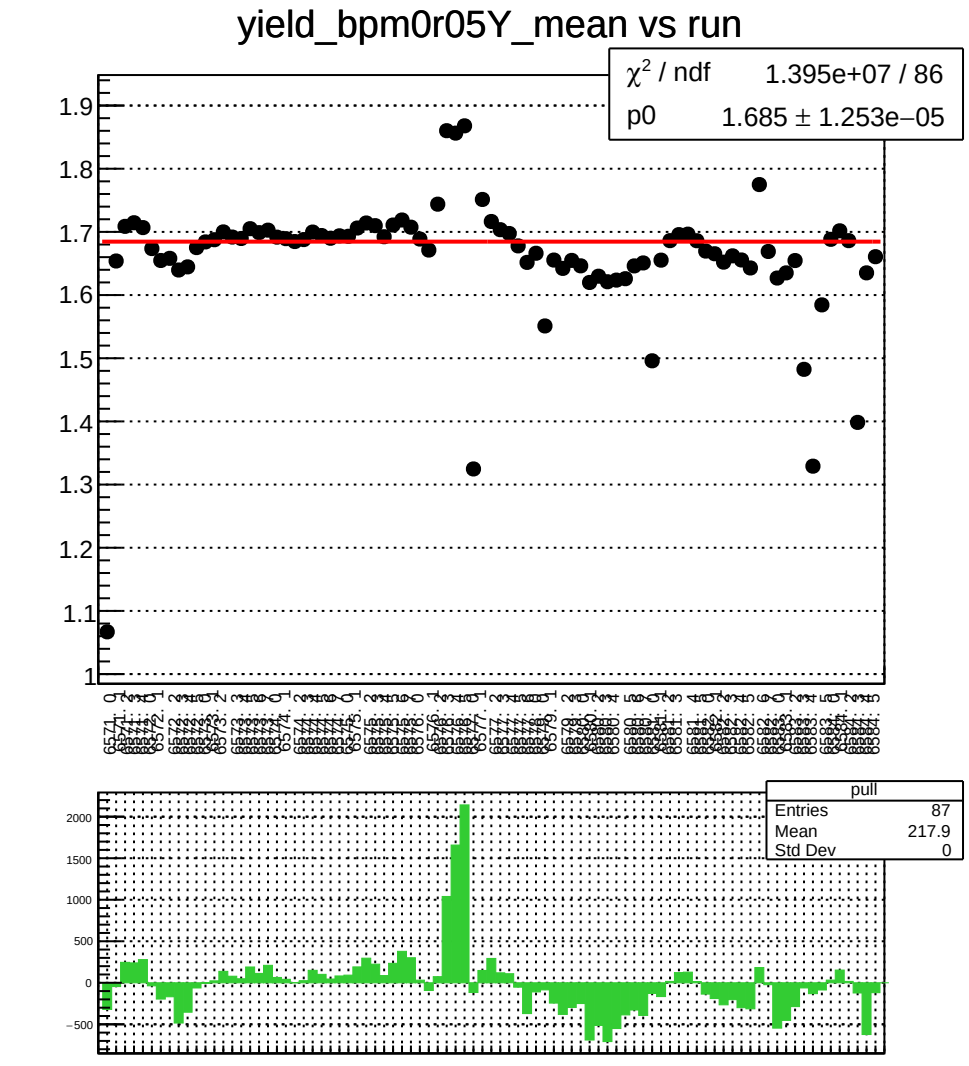

pull1D
Entries 87
Mean −3.24
Std Dev 4.145
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

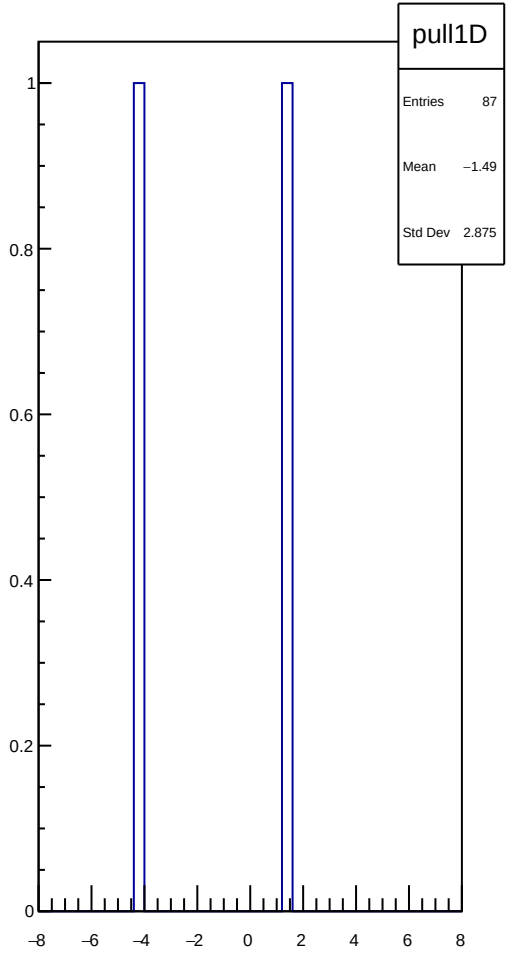

yield_bpm0r03Y_rms vs run
χ² / ndf 2.729e+05 / 86
p0 0.009044 ± 7.606e−06
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

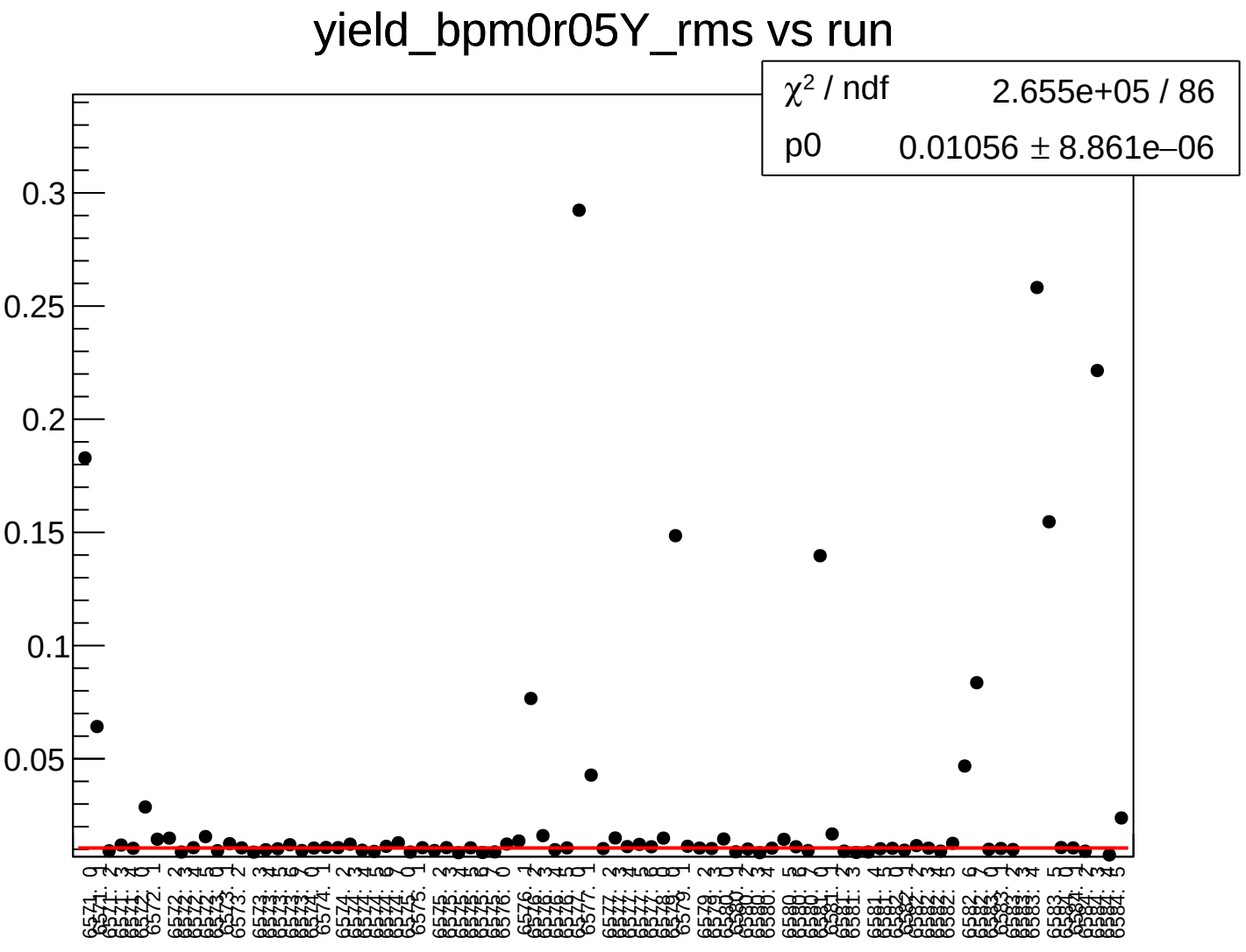

yield_bpm0r05X_mean vs run
χ² / ndf 2.722e+05 / 86
p0 −0.16 ± 9.174e−05
pull
Entries 87
Mean 19.47
Std Dev 48.41

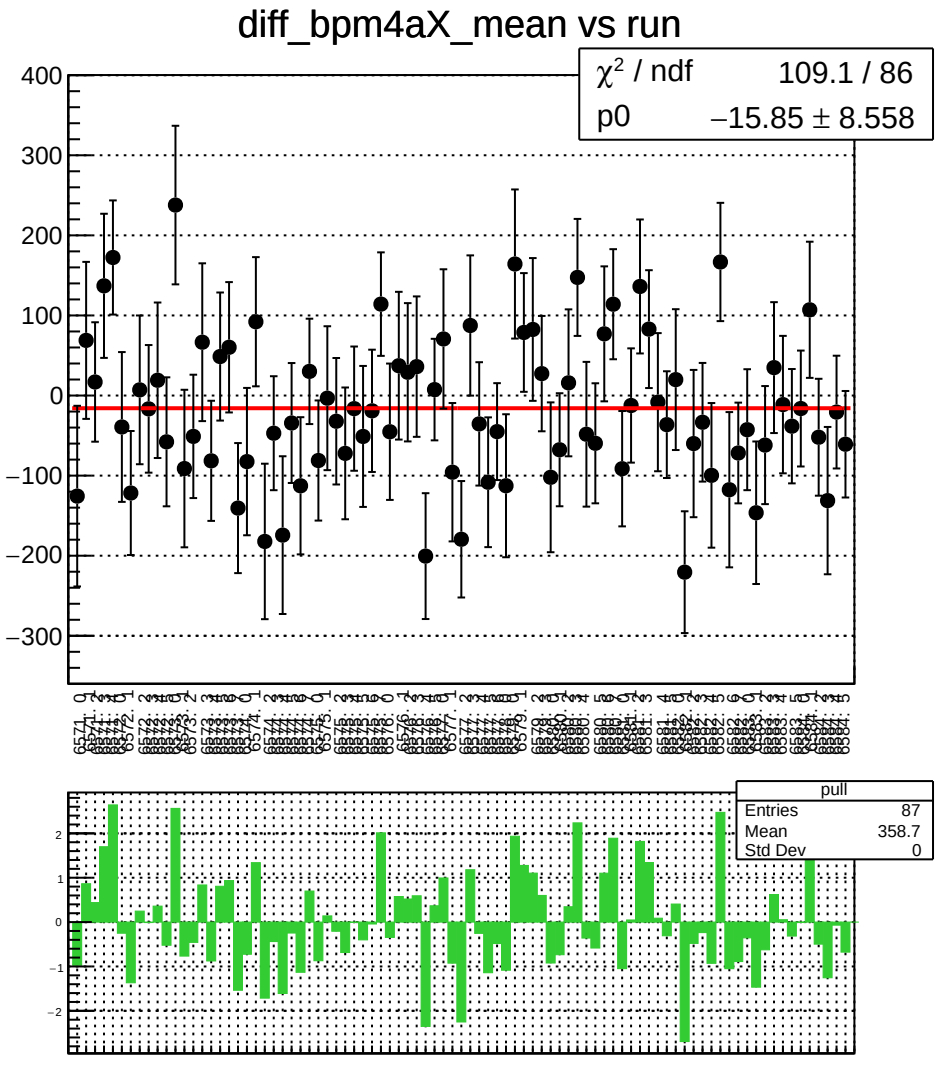

pull1D
Entries 87
Mean 1.048
Std Dev 3.923

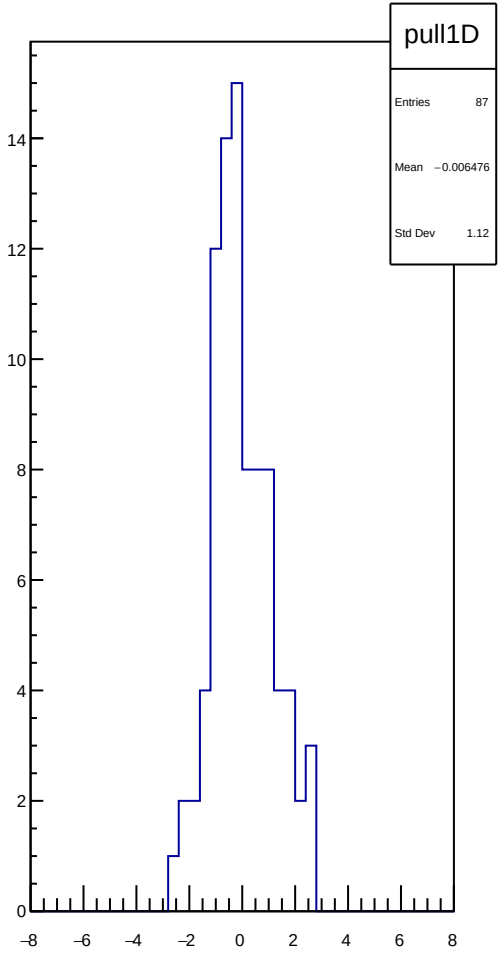

yield_bpm0r05X_rms vs run
χ² / ndf 4.372e+04 / 86
p0 0.08315 ± 6.487e–05
0.5
0.4
0.3
0.2
0.1

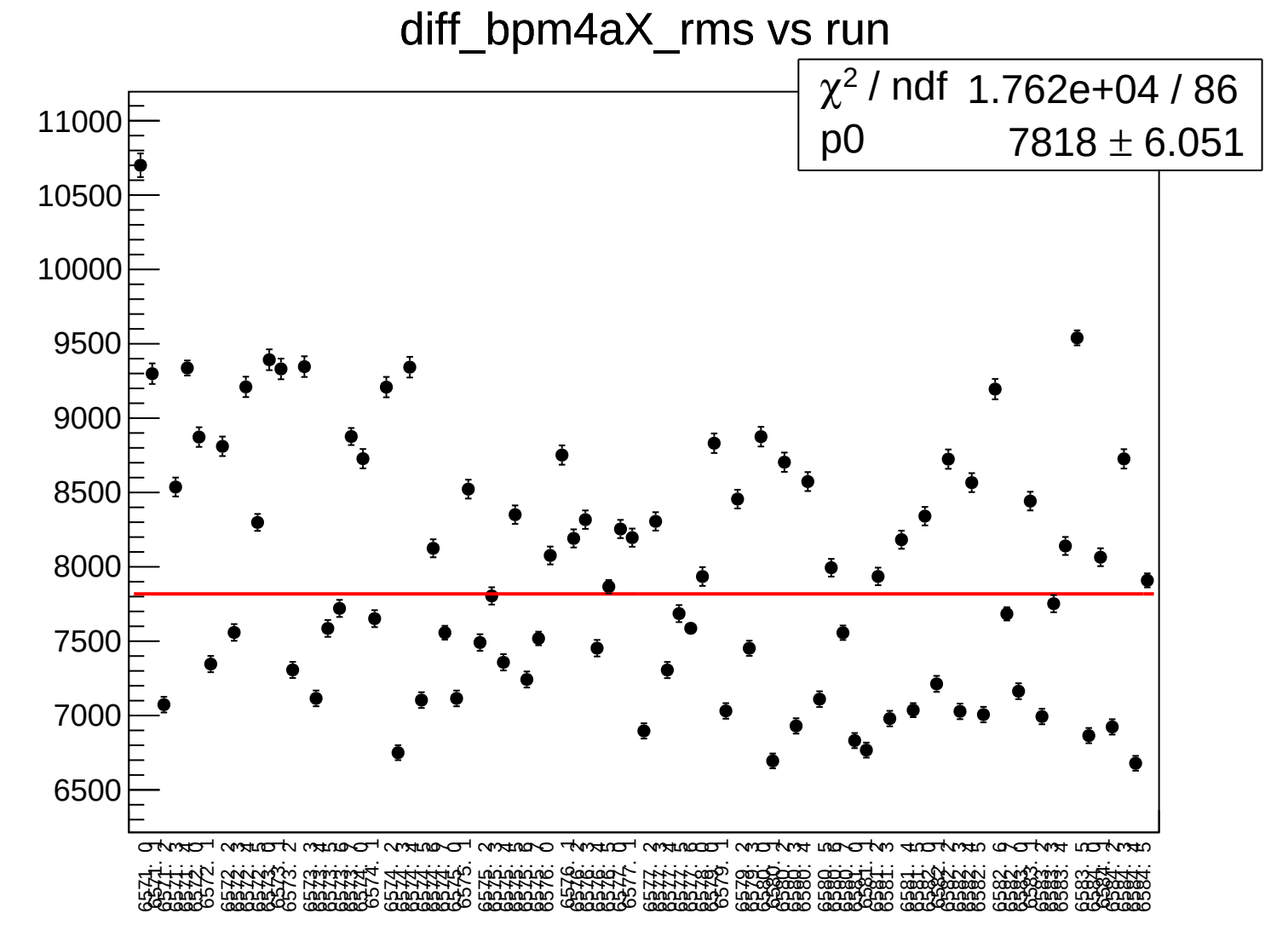

yield_bpm0r05Y_mean vs run
χ² / ndf 1.395e+07 / 86
p0 1.685 ± 1.253e−05
pull
Entries 87
Mean 217.9
Std Dev 0

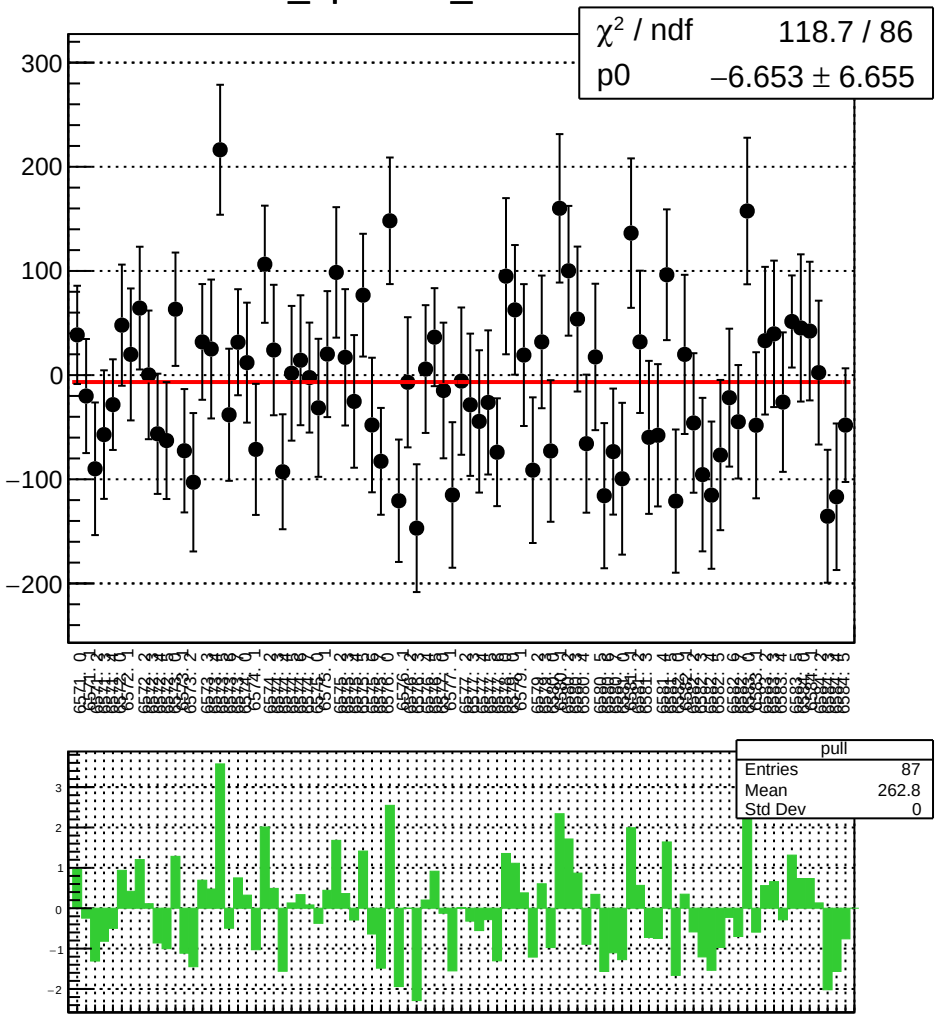

pull1D
Entries 87
Mean −1.49
Std Dev 2.875

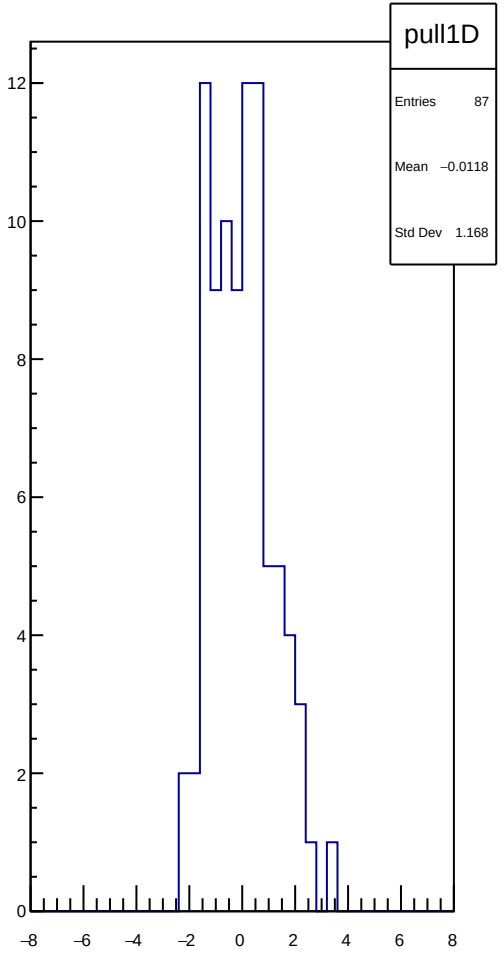

yield_bpm0r05Y_rms vs run
χ² / ndf 2.655e+05 / 86
p0 0.01056 ± 8.861e–06
0.3
0.25
0.2
0.15
0.1
0.05

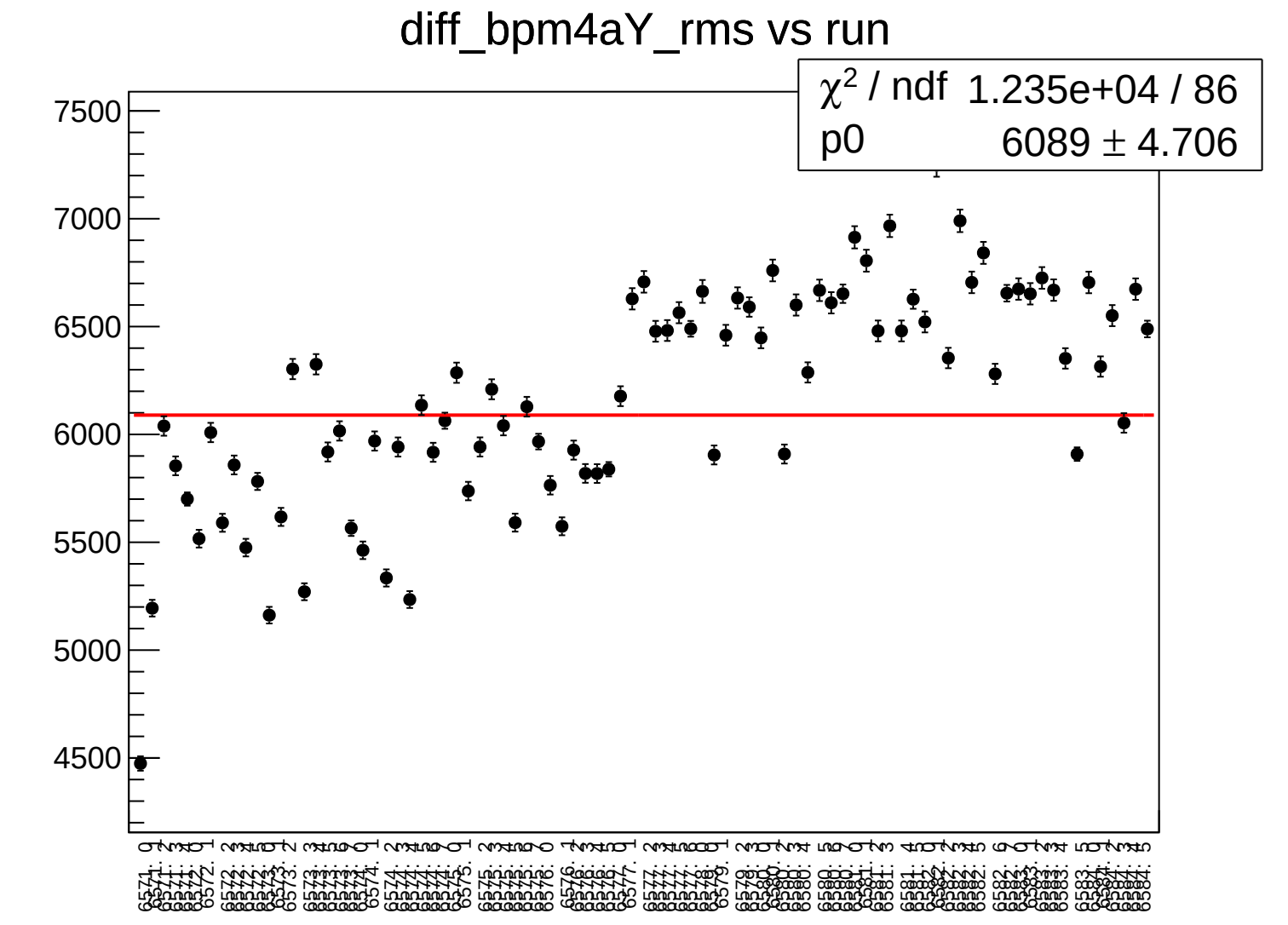

diff_bpm4aX_mean vs run
χ² / ndf 109.1 / 86
p0 −15.85 ± 8.558
pull
Entries 87
Mean 358.7
Std Dev 0

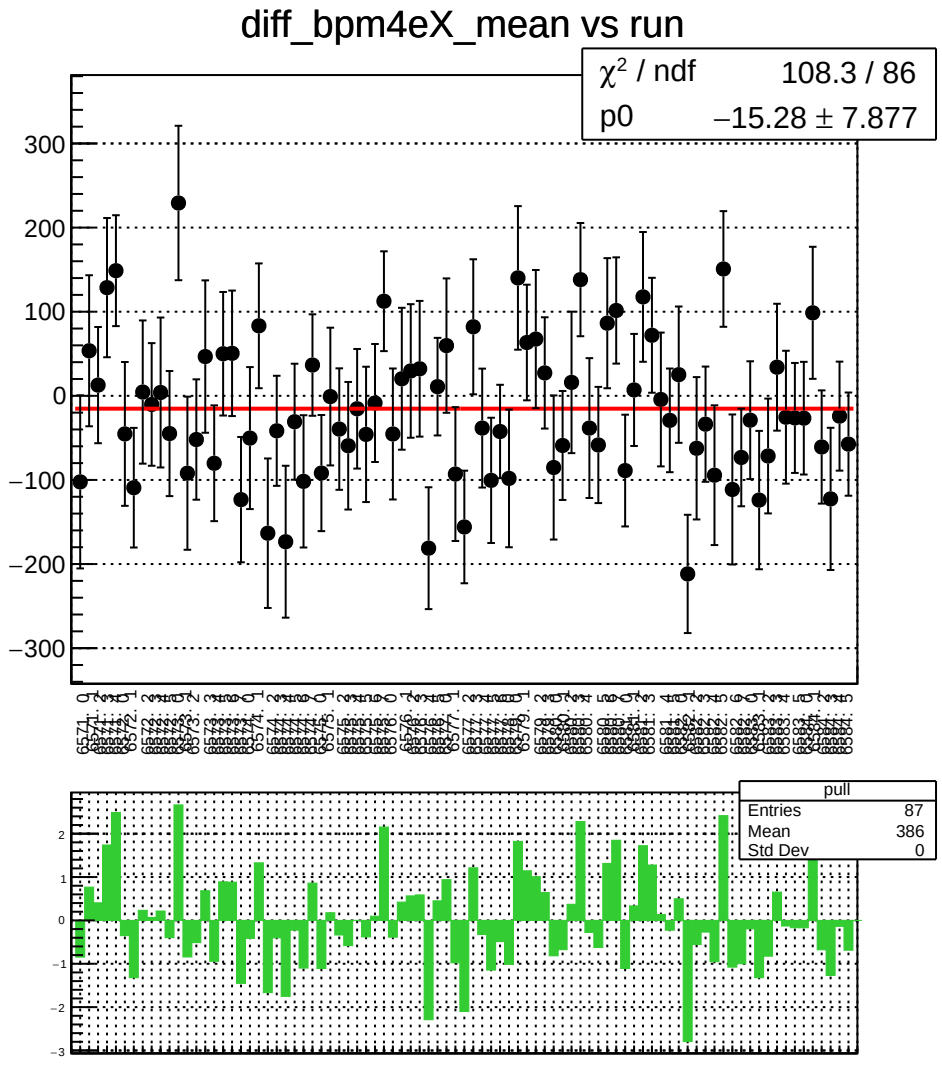

pull1D
Entries 87
Mean −0.006476
Std Dev 1.12

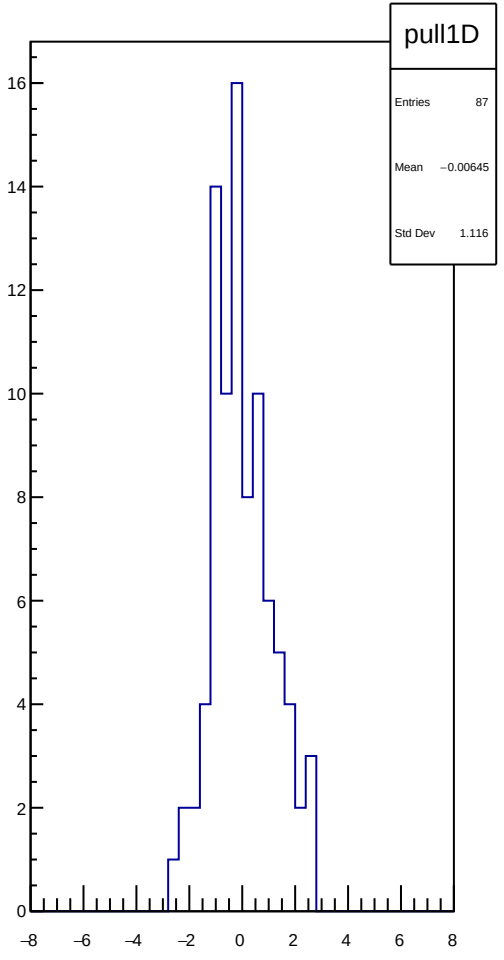

diff_bpm4aX_rms vs run
χ² / ndf 1.762e+04 / 86
p0 7818 ± 6.051
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

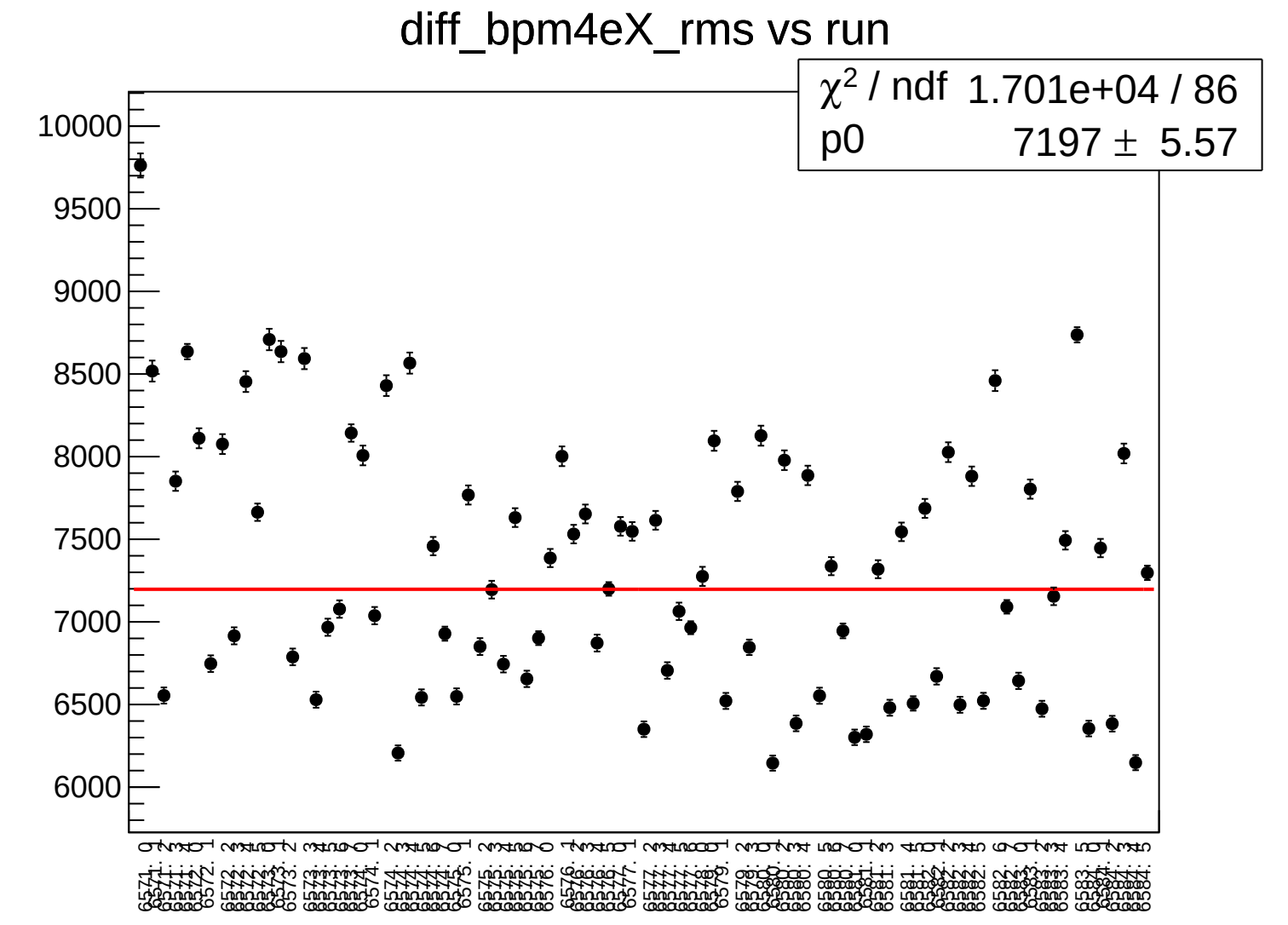

diff_bpm4aY_mean vs run
χ² / ndf 118.7 / 86
p0 −6.653 ± 6.655
300
200
100
0
−100
−200
pull
Entries 87
Mean 262.8
Std Dev 0
3
2
1
0
−1
−2

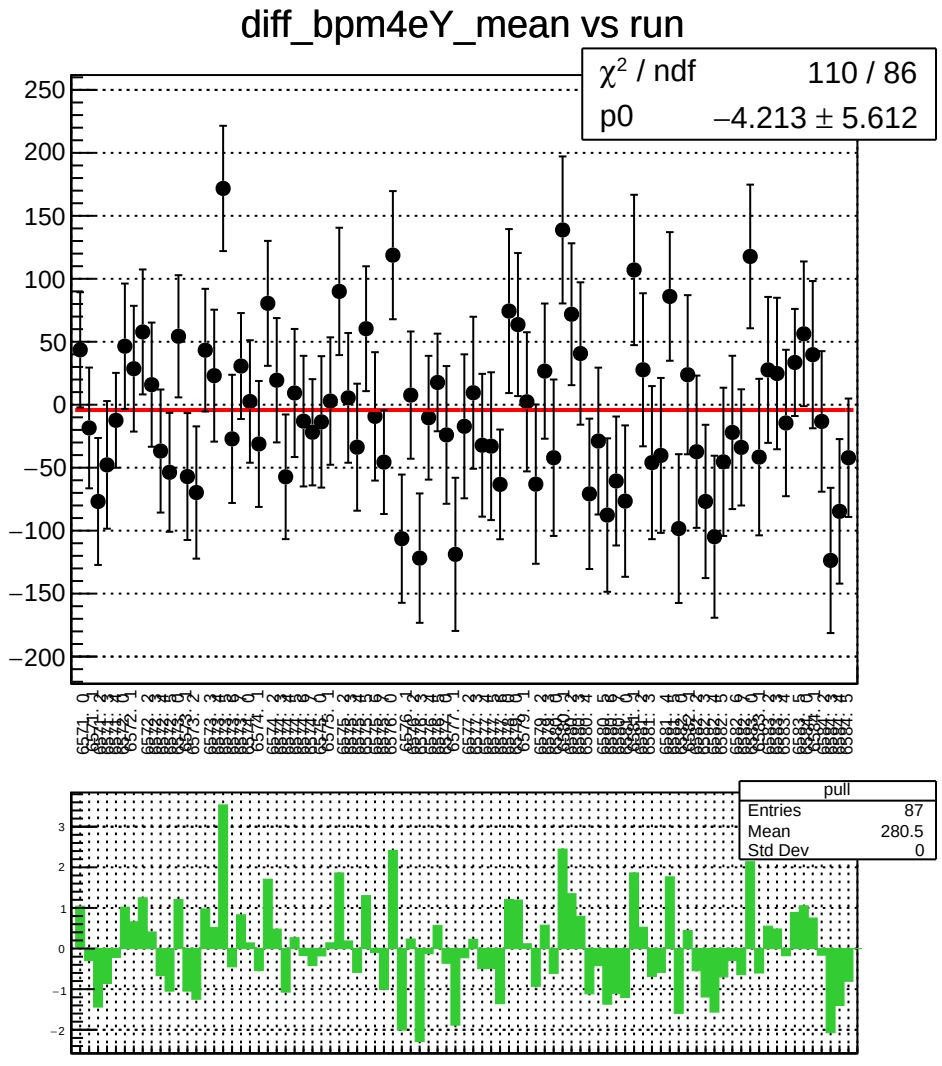

pull1D
Entries 87
Mean −0.0118
Std Dev 1.168
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

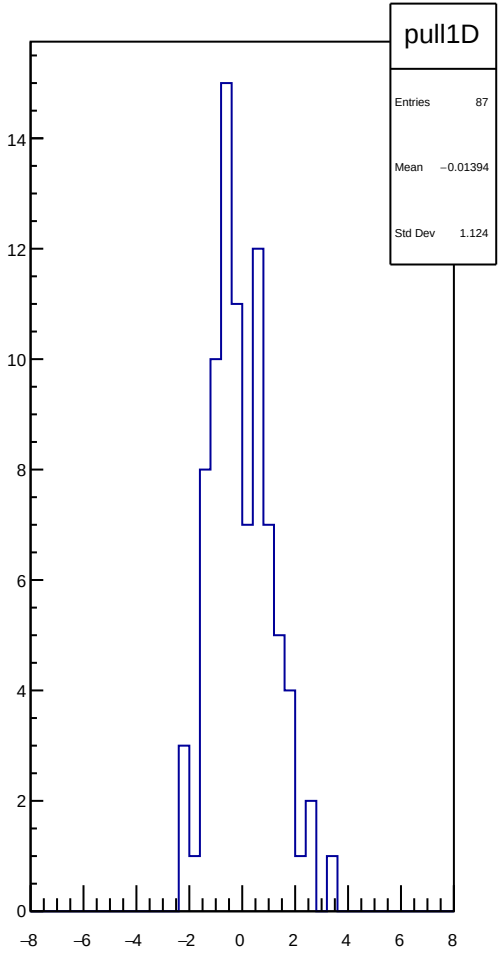

diff_bpm4aY_rms vs run
χ² / ndf 1.235e+04 / 86
p0 6089 ± 4.706
7500
7000
6500
6000
5500
5000
4500

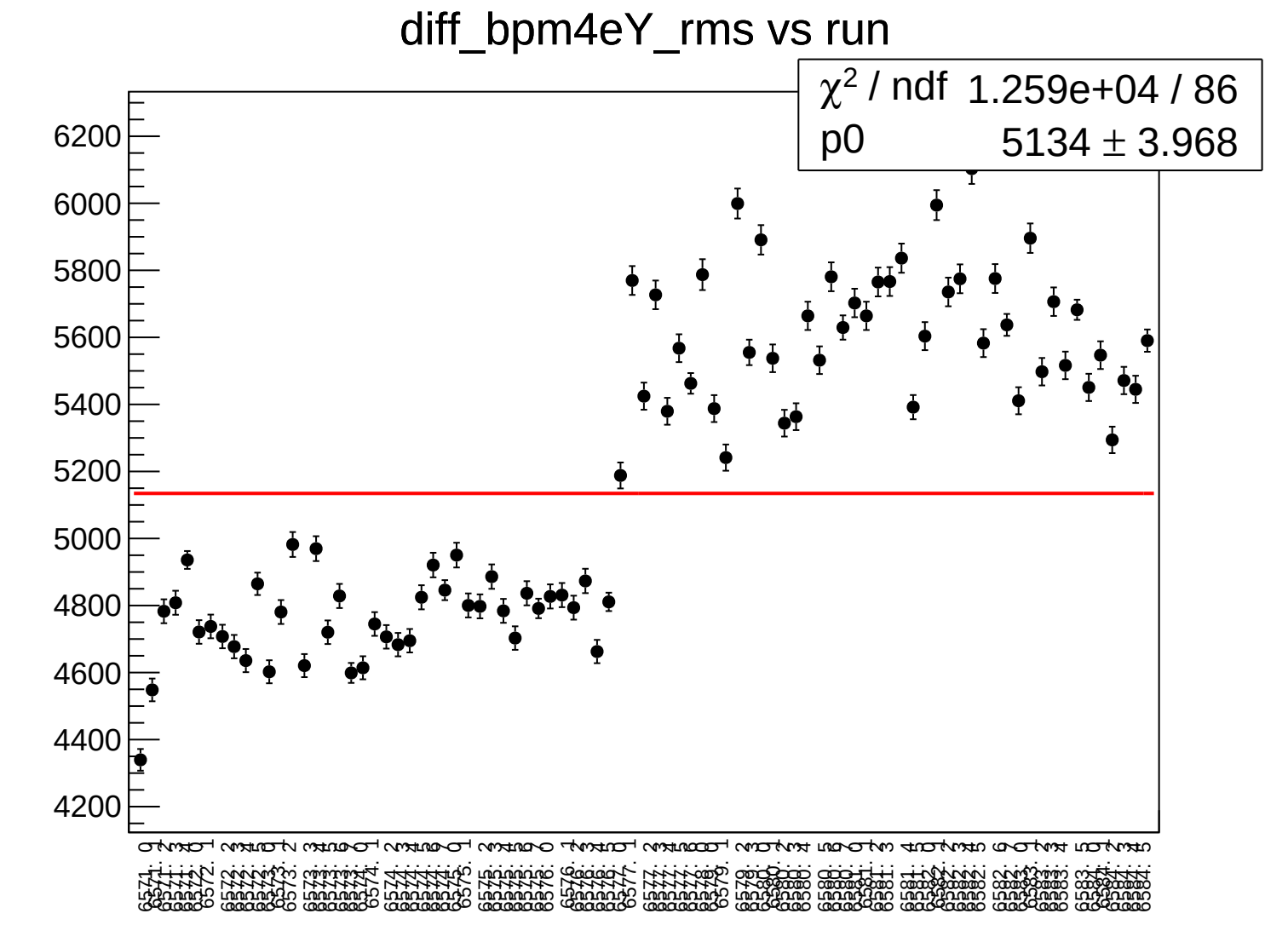

diff_bpm4eX_mean vs run
χ² / ndf 108.3 / 86
p0 −15.28 ± 7.877
pull
Entries 87
Mean 386
Std Dev 0

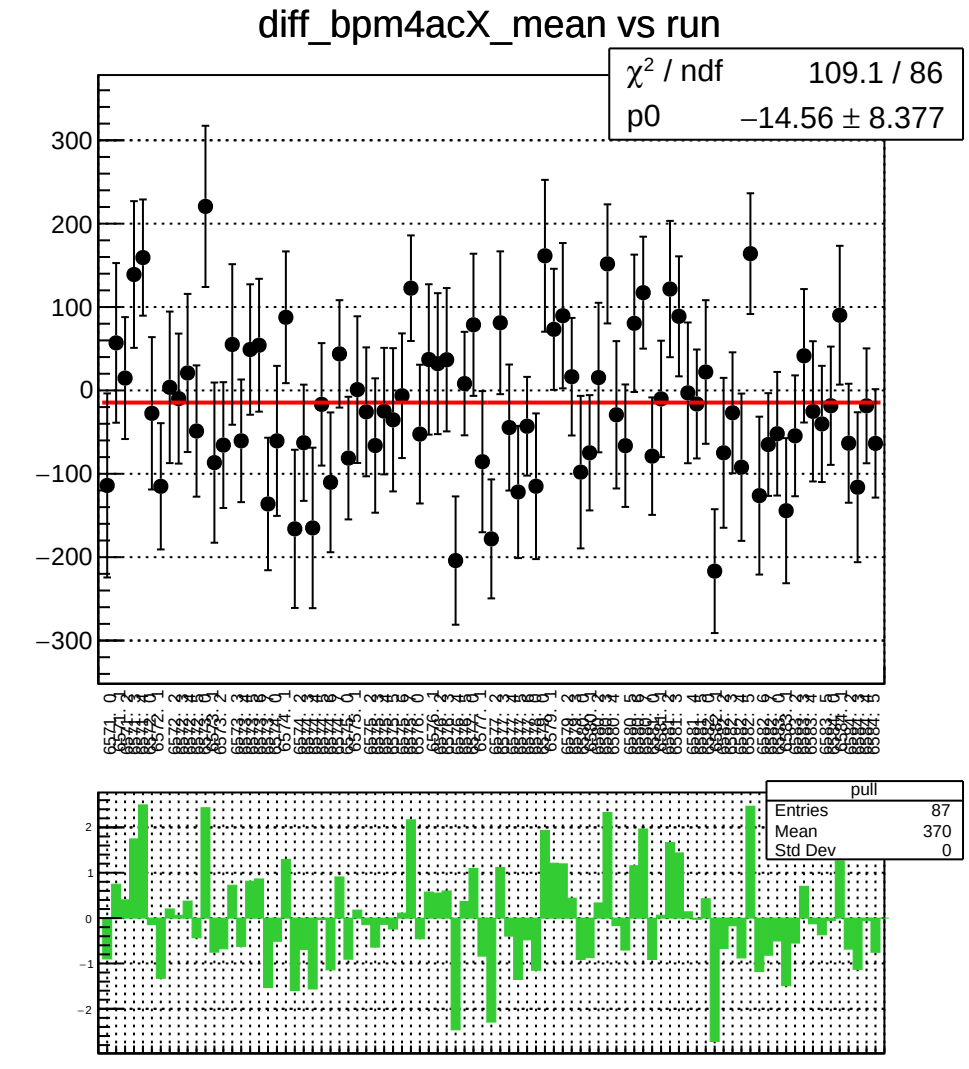

pull1D
Entries 87
Mean −0.00645
Std Dev 1.116

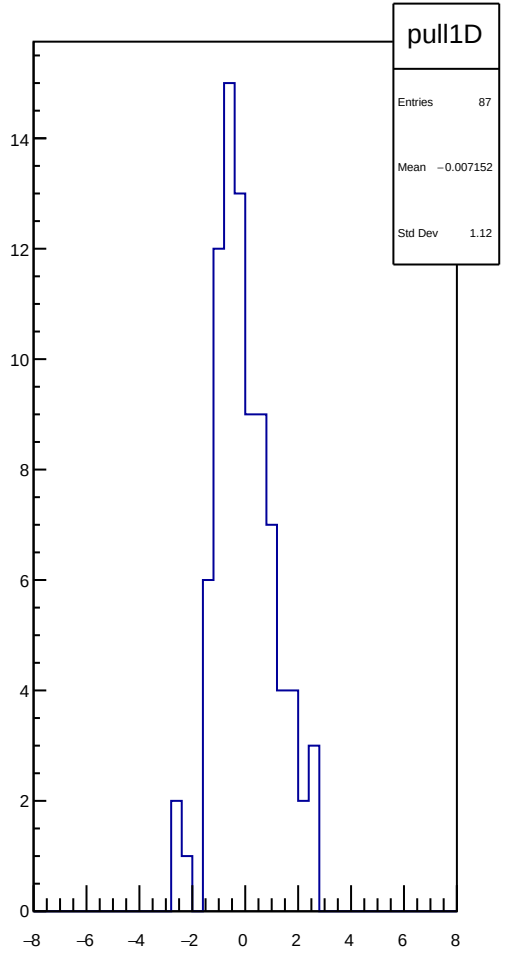

diff_bpm4eX_rms vs run
χ² / ndf 1.701e+04 / 86
p0 7197 ± 5.57
10000
9500
9000
8500
8000
7500
7000
6500
6000

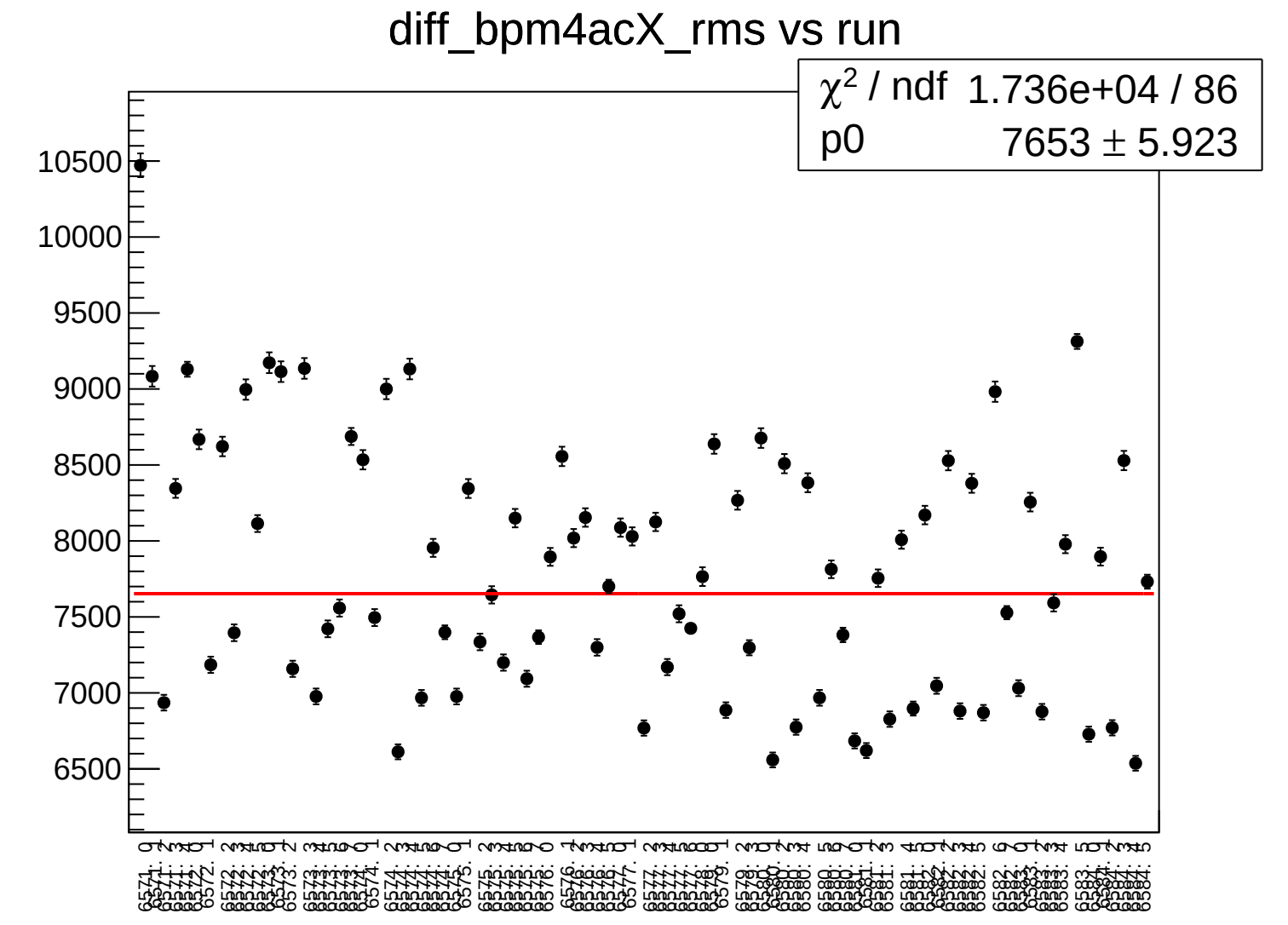

diff_bpm4eY_mean vs run
χ² / ndf 110 / 86
p0 −4.213 ± 5.612
pull
Entries 87
Mean 280.5
Std Dev 0

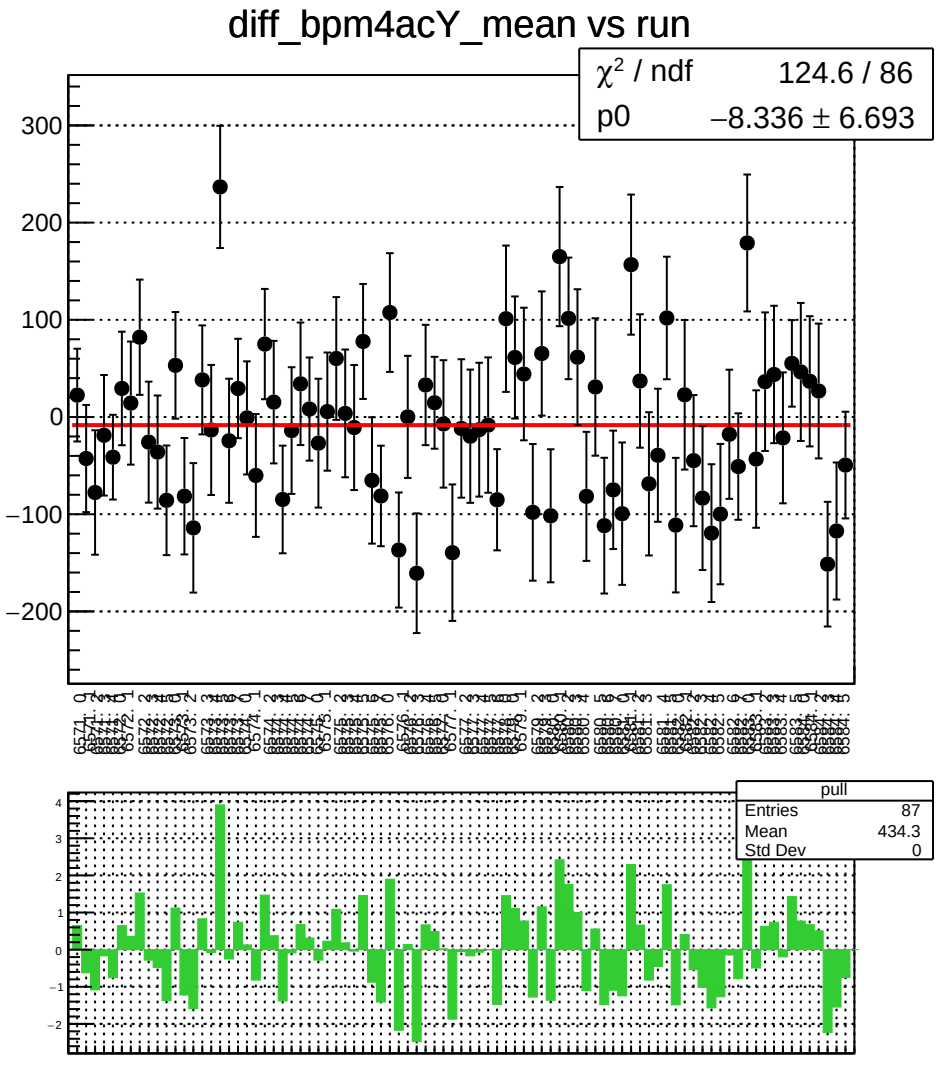

pull1D
Entries 87
Mean −0.01394
Std Dev 1.124

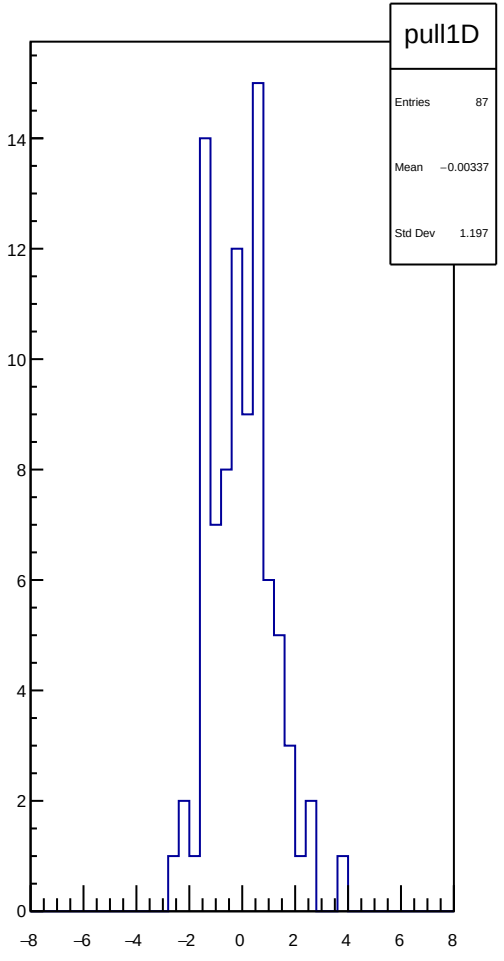

diff_bpm4eY_rms vs run
χ² / ndf 1.259e+04 / 86
p0 5134 ± 3.968
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

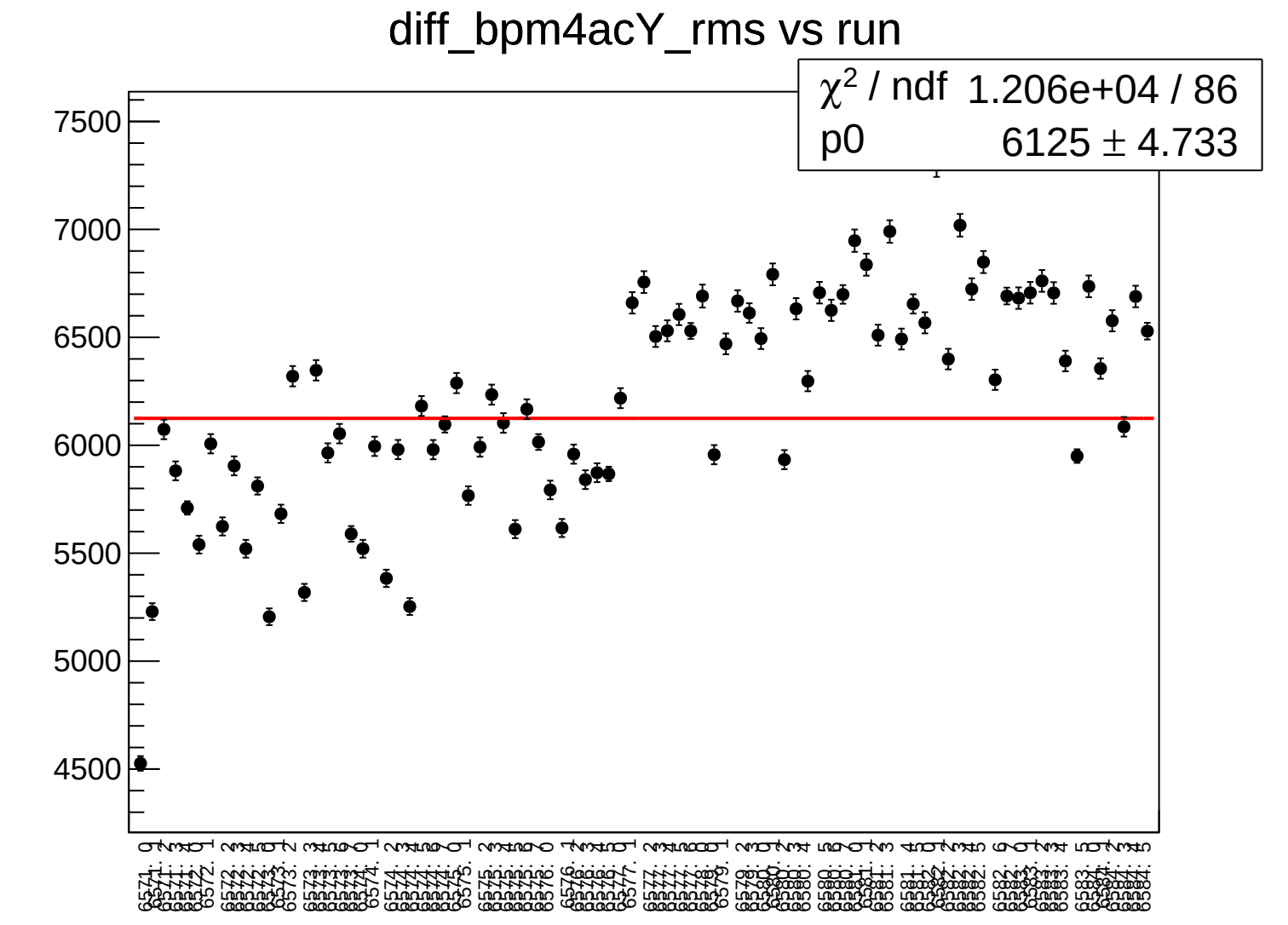

diff_bpm4acX_mean vs run
χ² / ndf 109.1 / 86
p0 −14.56 ± 8.377
pull
Entries 87
Mean 370
Std Dev 0

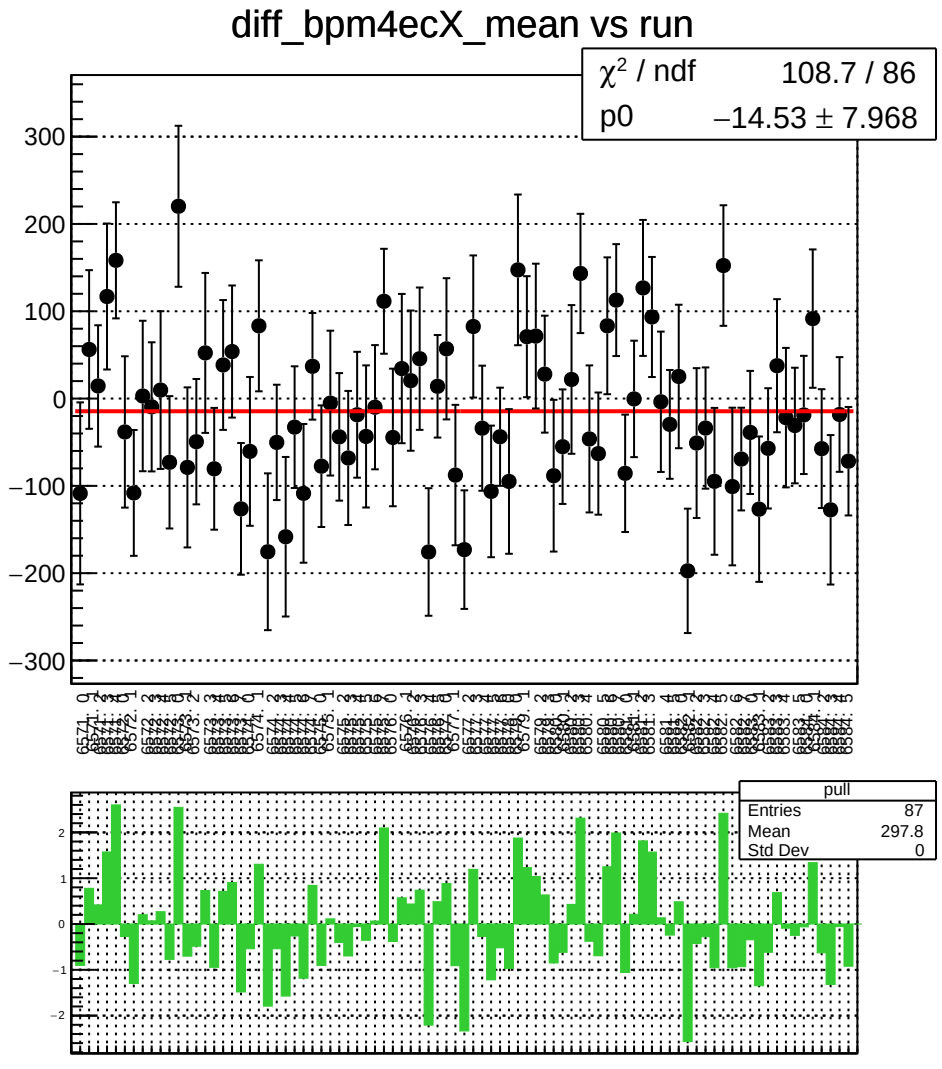

pull1D
Entries 87
Mean −0.007152
Std Dev 1.12

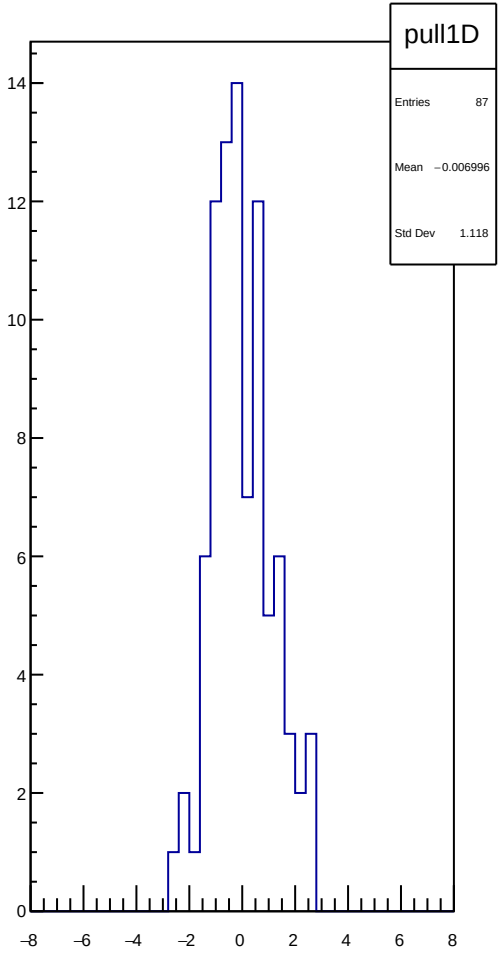

diff_bpm4acX_rms vs run
χ² / ndf 1.736e+04 / 86
p0 7653 ± 5.923
10500
10000
9500
9000
8500
8000
7500
7000
6500

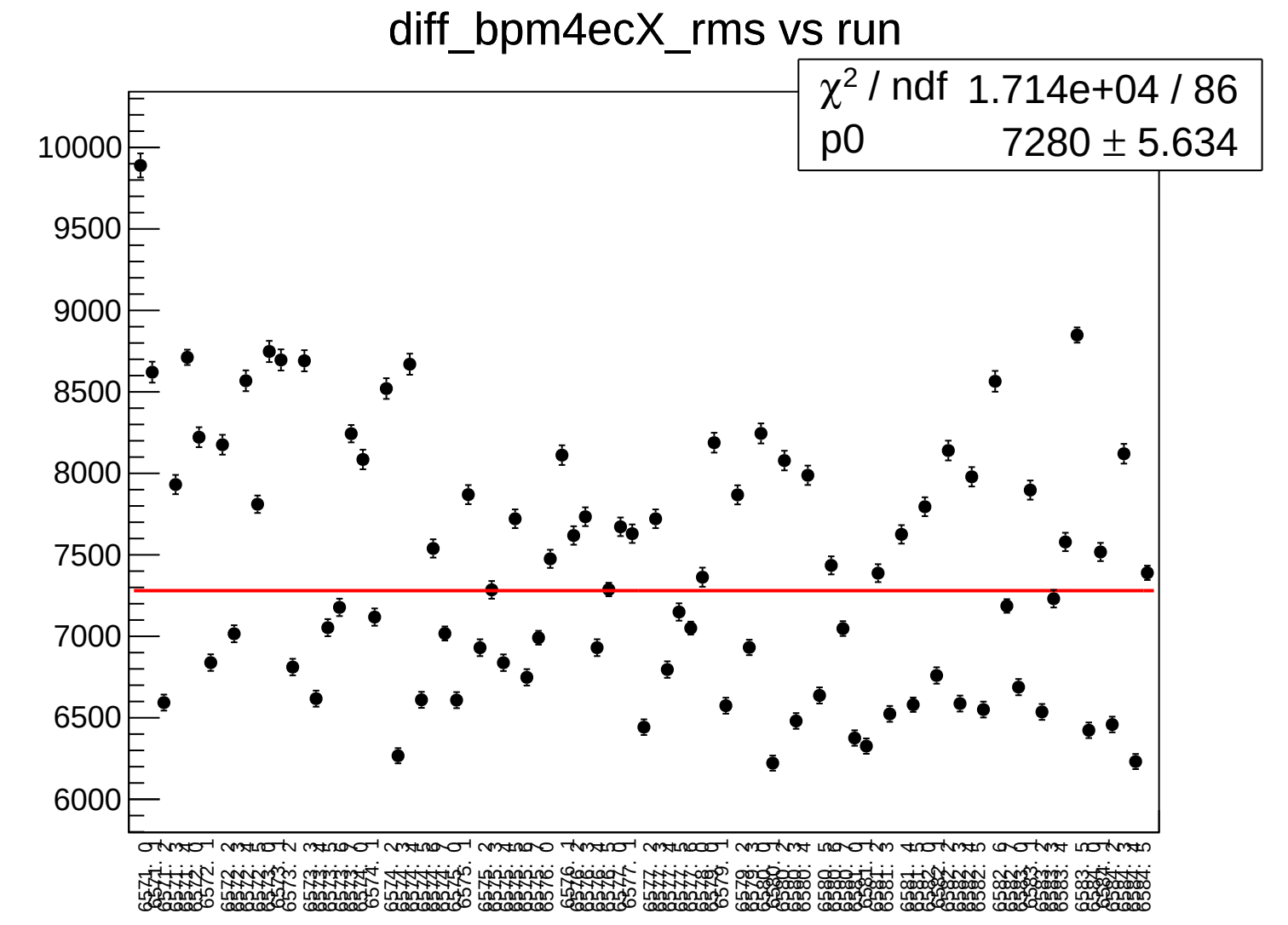

diff_bpm4acY_mean vs run
χ² / ndf 124.6 / 86
p0 −8.336 ± 6.693
300
200
100
0
−100
−200
pull
Entries 87
Mean 434.3
Std Dev 0
4
3
2
1
0
−1
−2

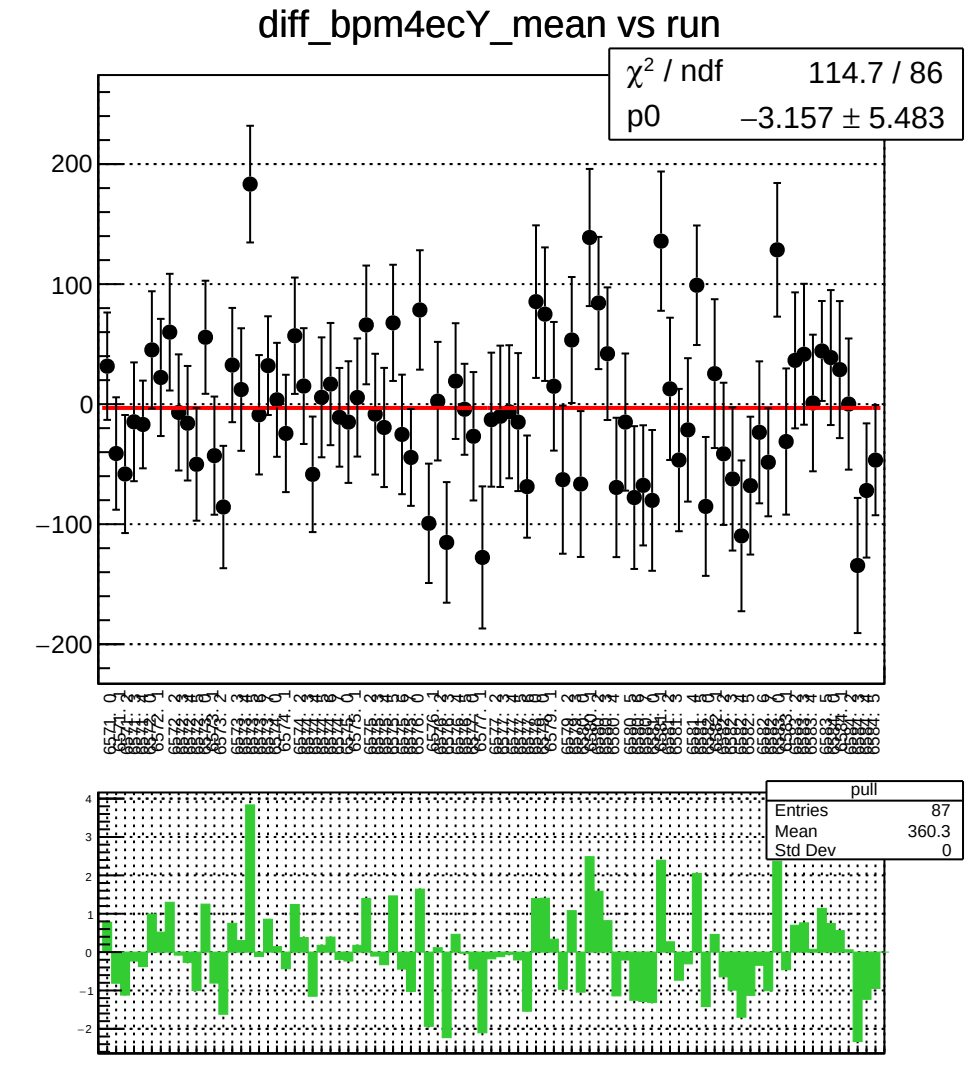

pull1D
Entries 87
Mean −0.00337
Std Dev 1.197
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

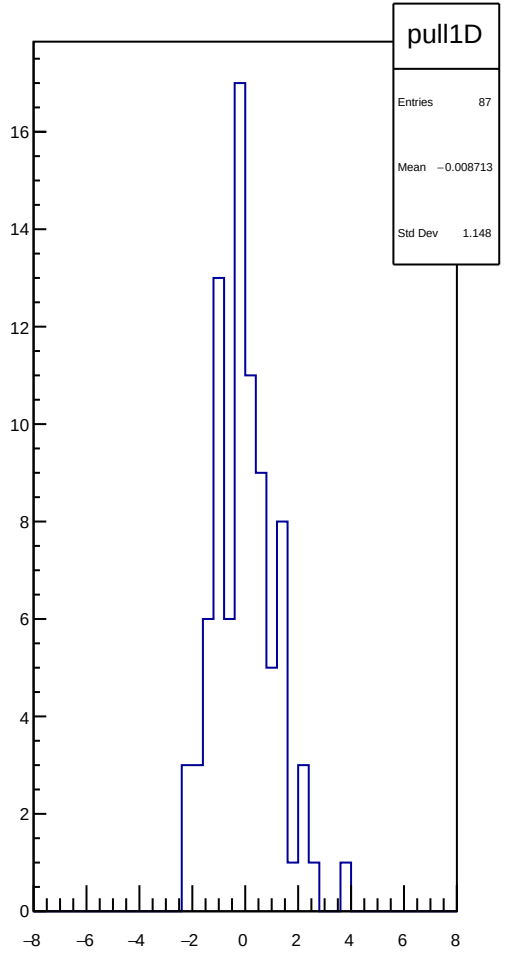

diff_bpm4acY_rms vs run
χ² / ndf 1.206e+04 / 86
p0 6125 ± 4.733
7500
7000
6500
6000
5500
5000
4500

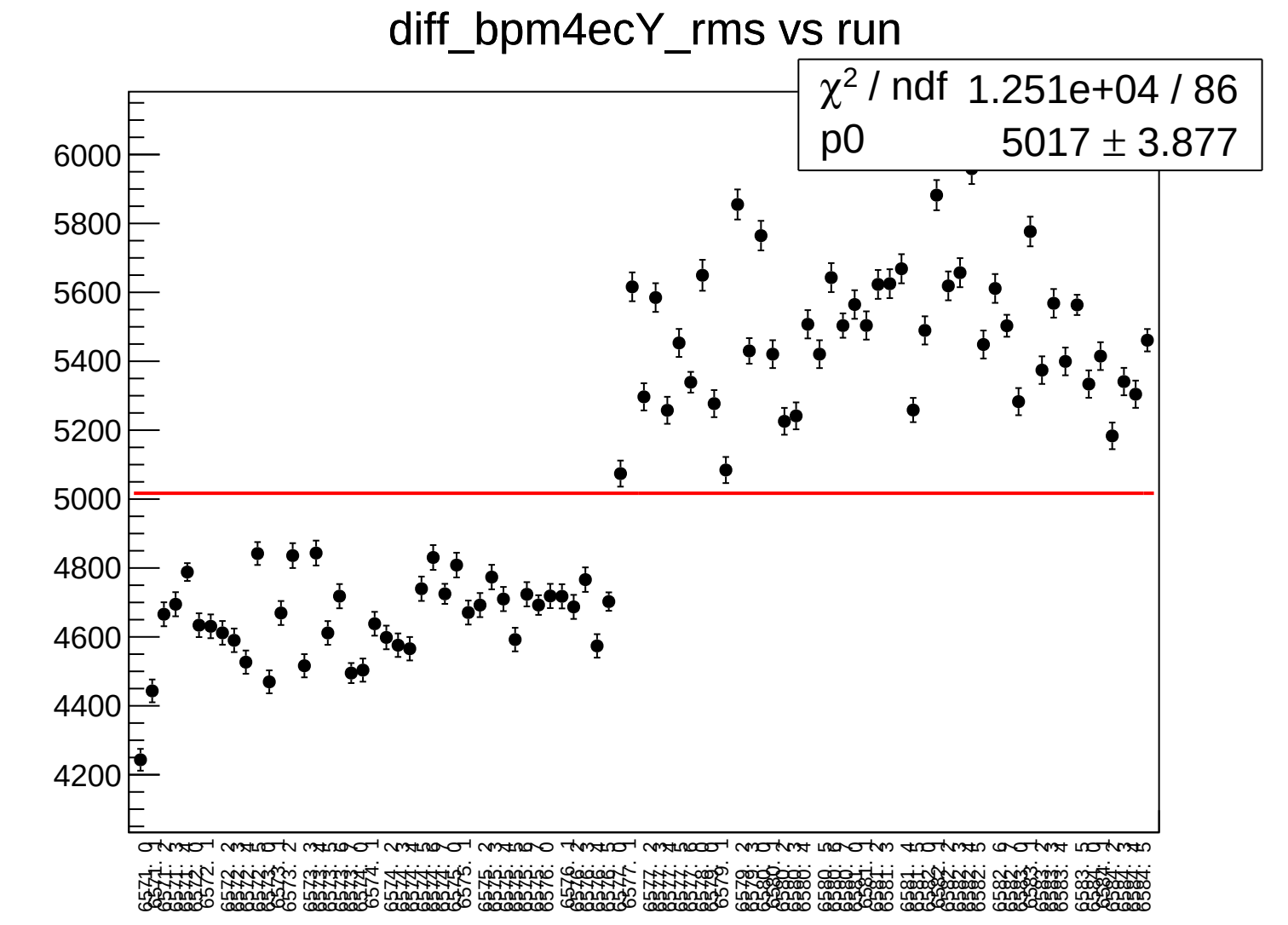

diff_bpm4ecX_mean vs run
χ² / ndf 108.7 / 86
p0 −14.53 ± 7.968
pull
Entries 87
Mean 297.8
Std Dev 0

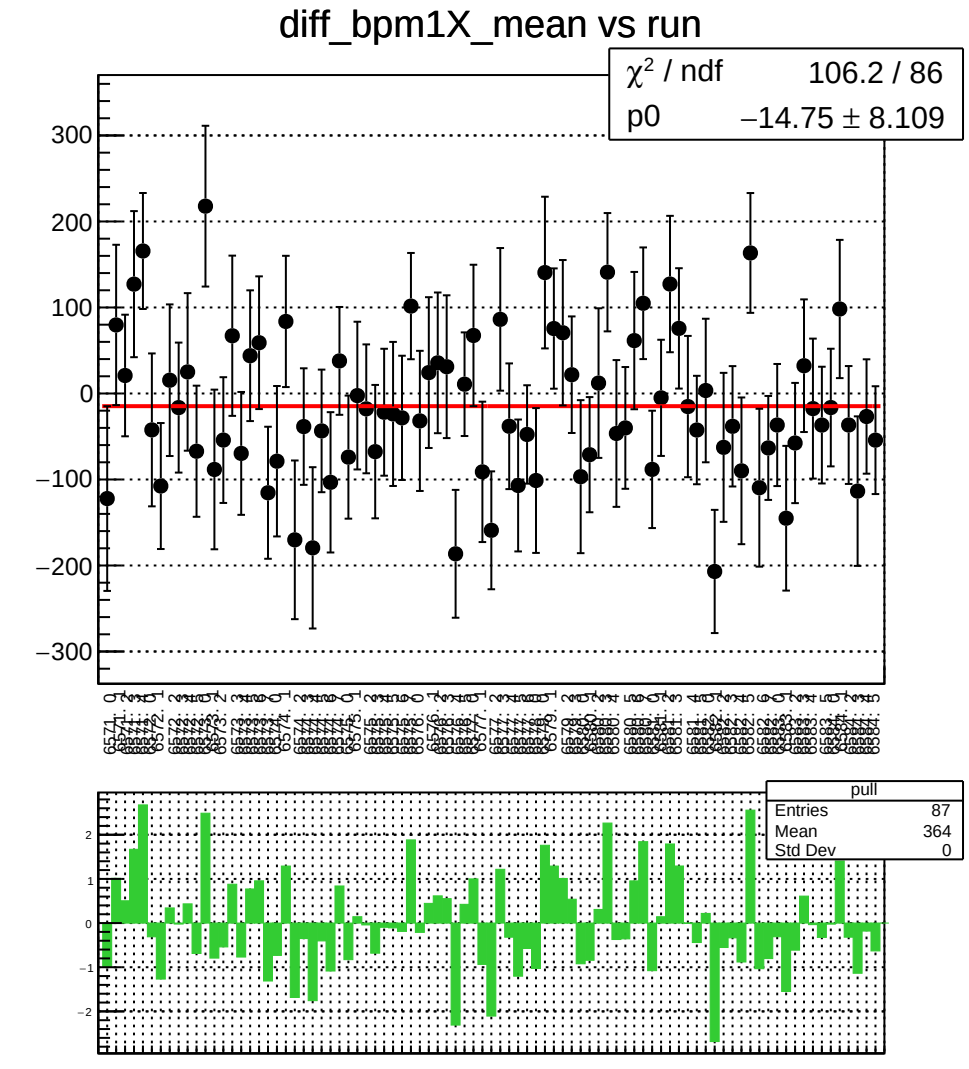

pull1D
Entries 87
Mean −0.006996
Std Dev 1.118

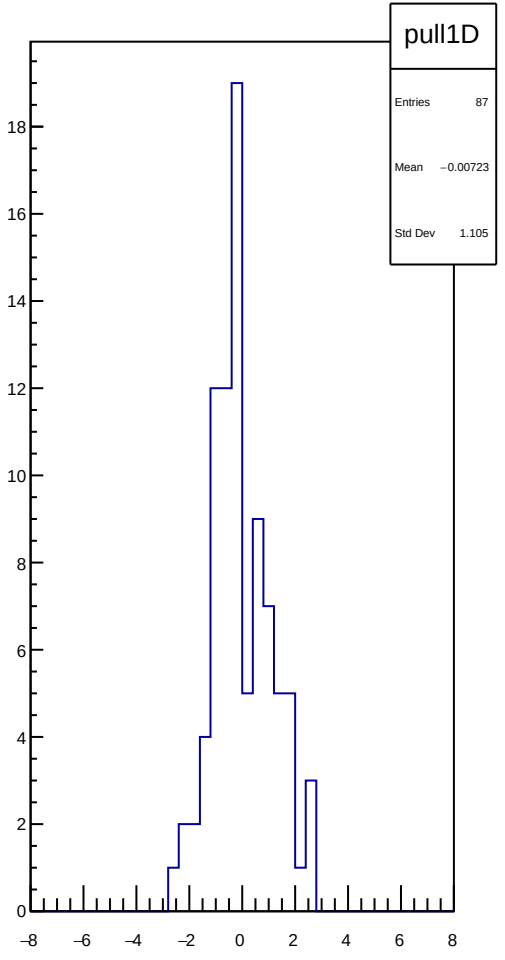

diff_bpm4ecX_rms vs run
χ² / ndf 1.714e+04 / 86
p0 7280 ± 5.634
10000
9500
9000
8500
8000
7500
7000
6500
6000

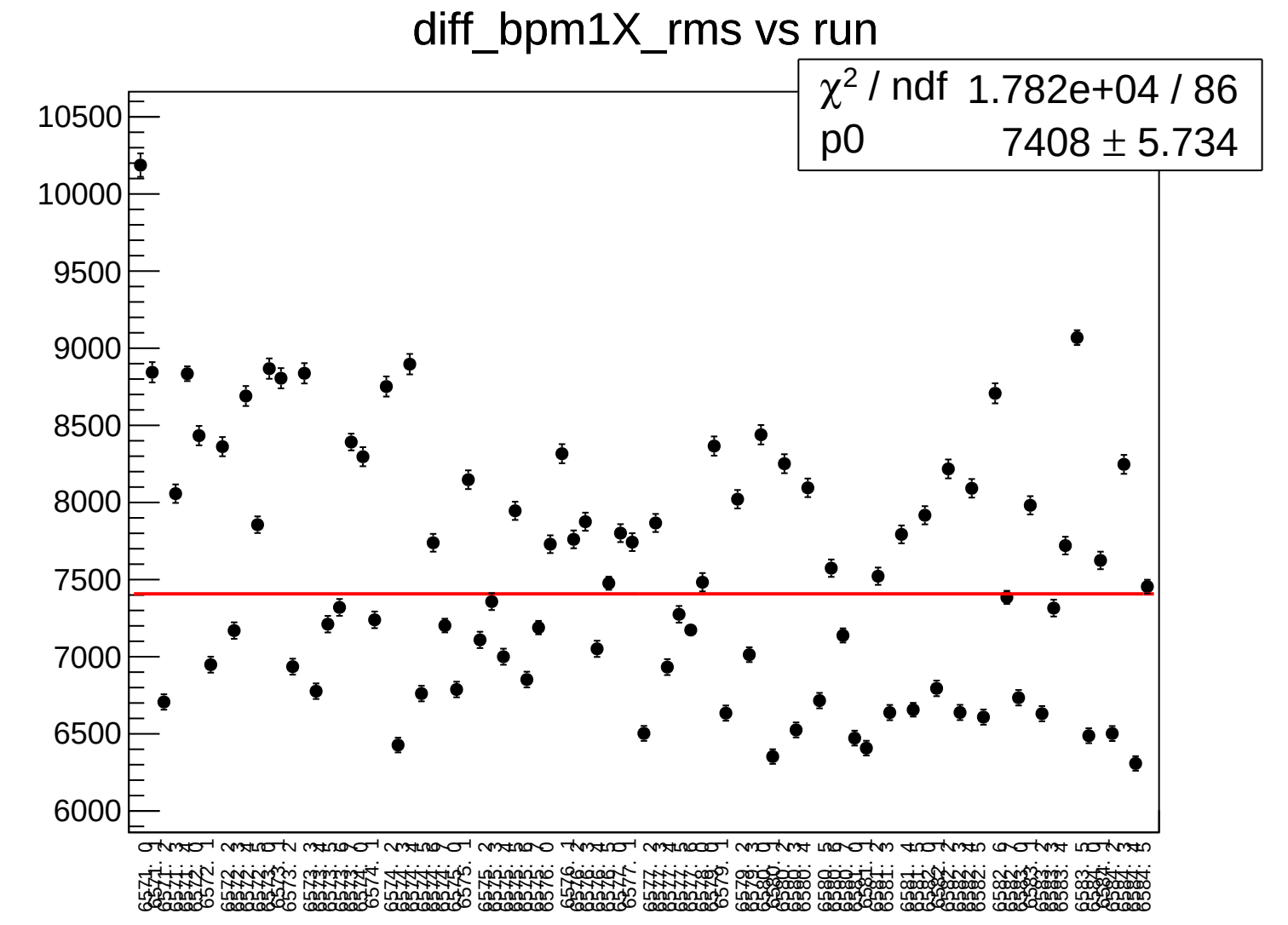

diff_bpm4ecY_mean vs run
χ² / ndf 114.7 / 86
p0 −3.157 ± 5.483
200
100
0
−100
−200
pull
Entries 87
Mean 360.3
Std Dev 0
4
3
2
1
0
−1
−2

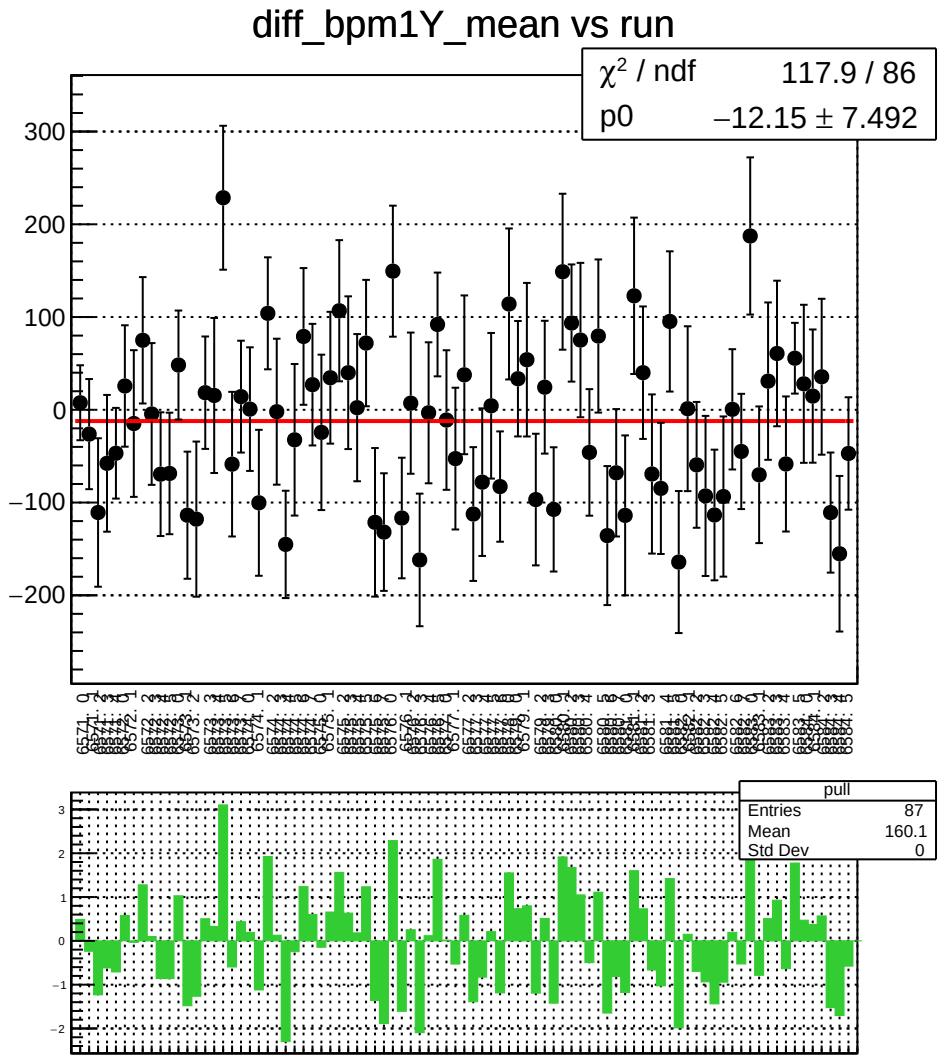

pull1D
Entries 87
Mean −0.008713
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

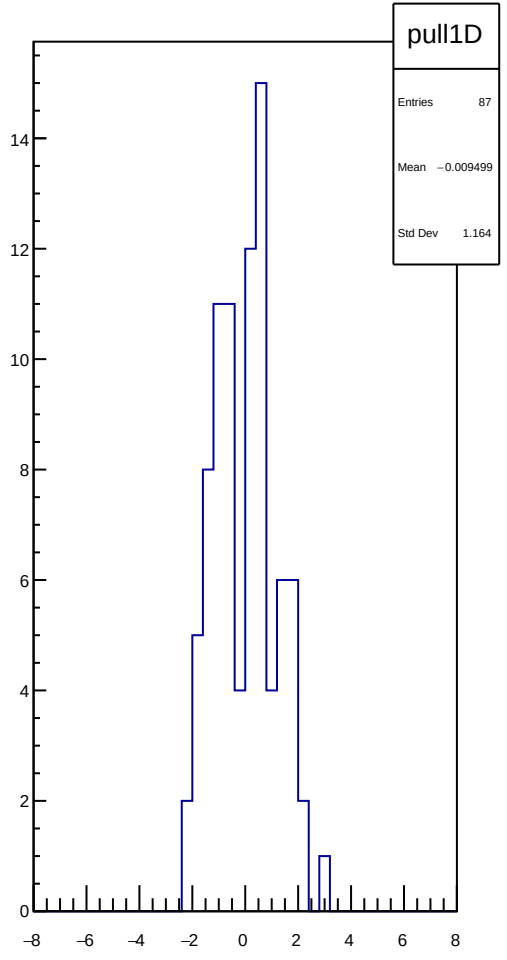

diff_bpm4ecY_rms vs run
χ² / ndf 1.251e+04 / 86
p0 5017 ± 3.877
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

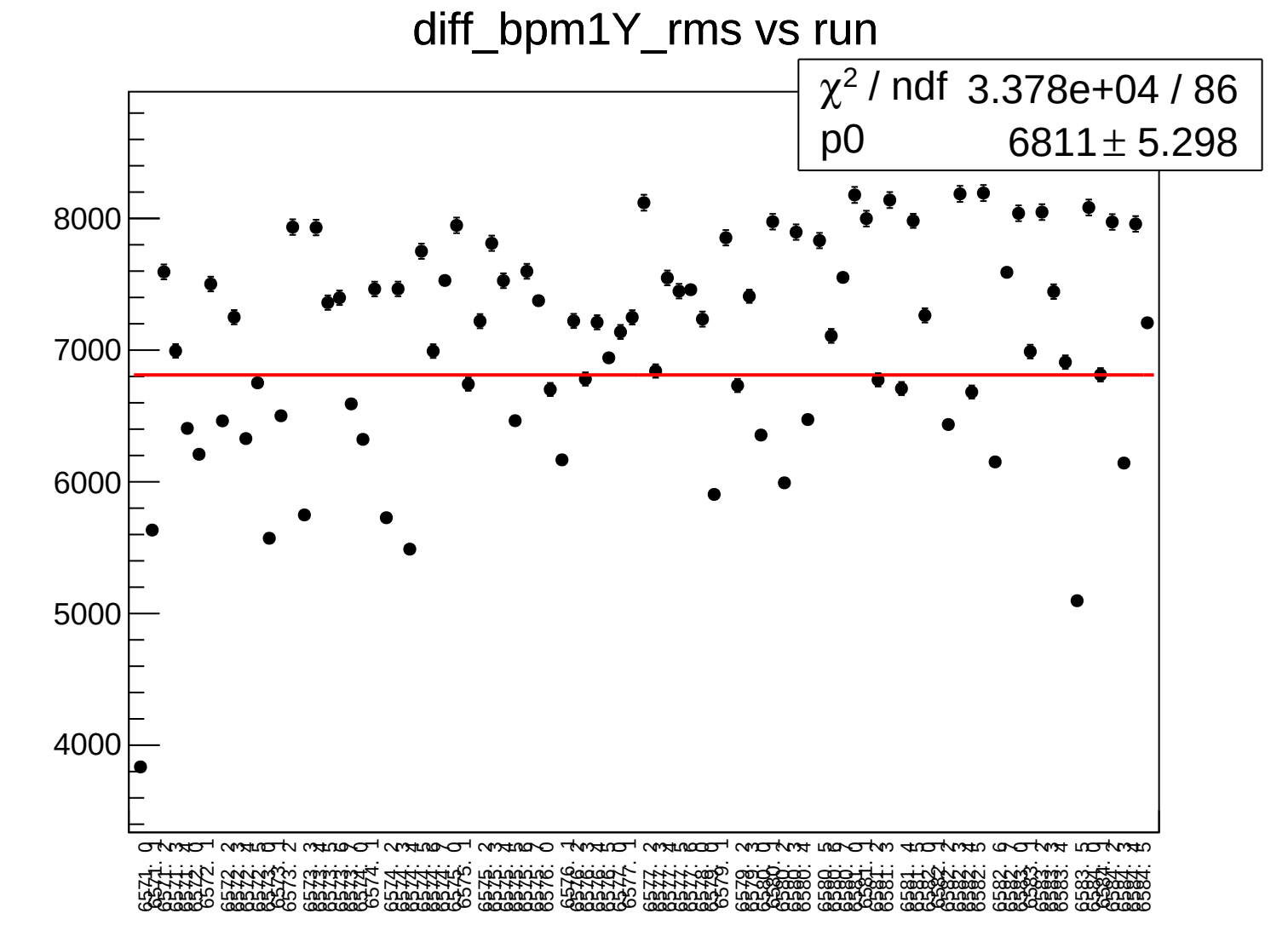

diff_bpm1X_mean vs run
χ² / ndf 106.2 / 86
p0 −14.75 ± 8.109
pull
Entries 87
Mean 364
Std Dev 0

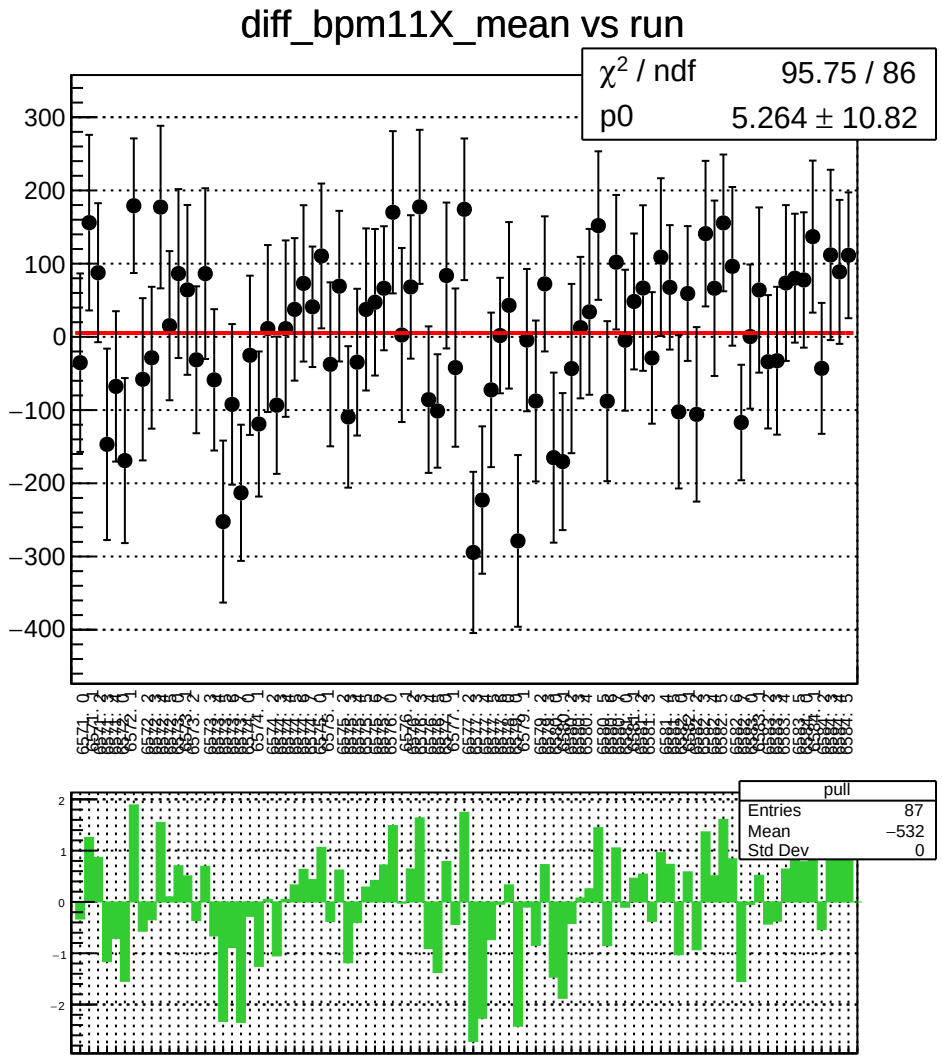

pull1D
Entries 87
Mean −0.00723
Std Dev 1.105

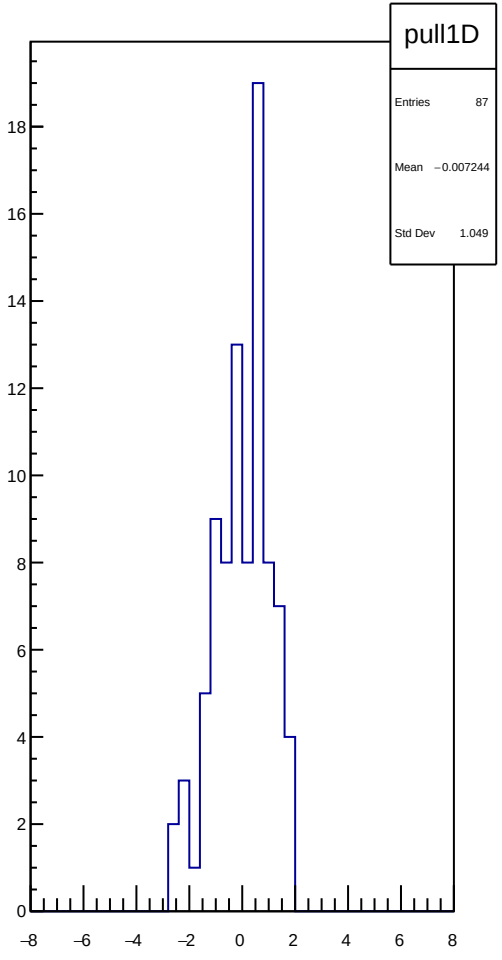

diff_bpm1X_rms vs run
χ² / ndf 1.782e+04 / 86
p0 7408 ± 5.734
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

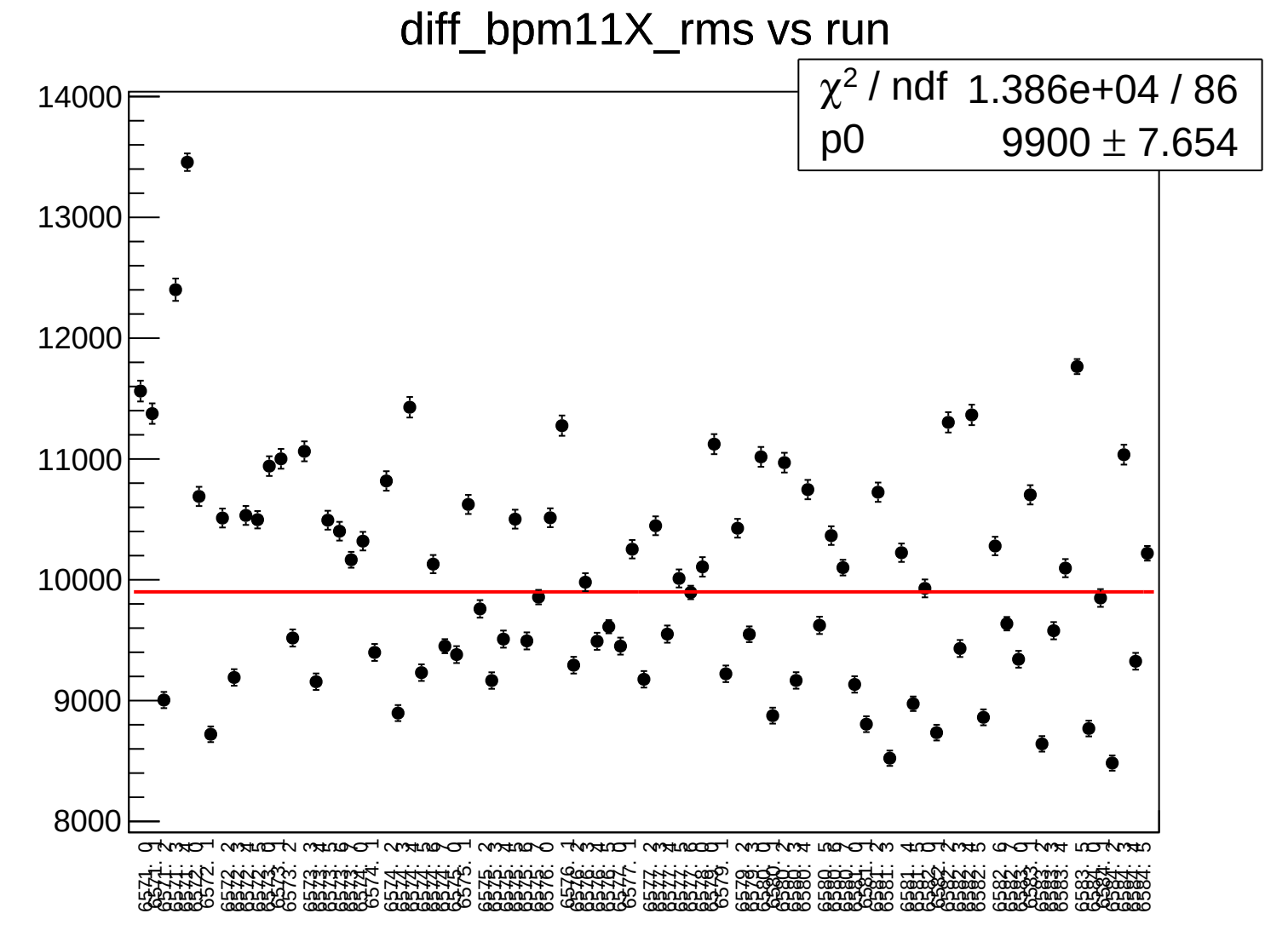

diff_bpm1Y_mean vs run
χ² / ndf 117.9 / 86
p0 −12.15 ± 7.492
pull
Entries 87
Mean 160.1
Std Dev 0

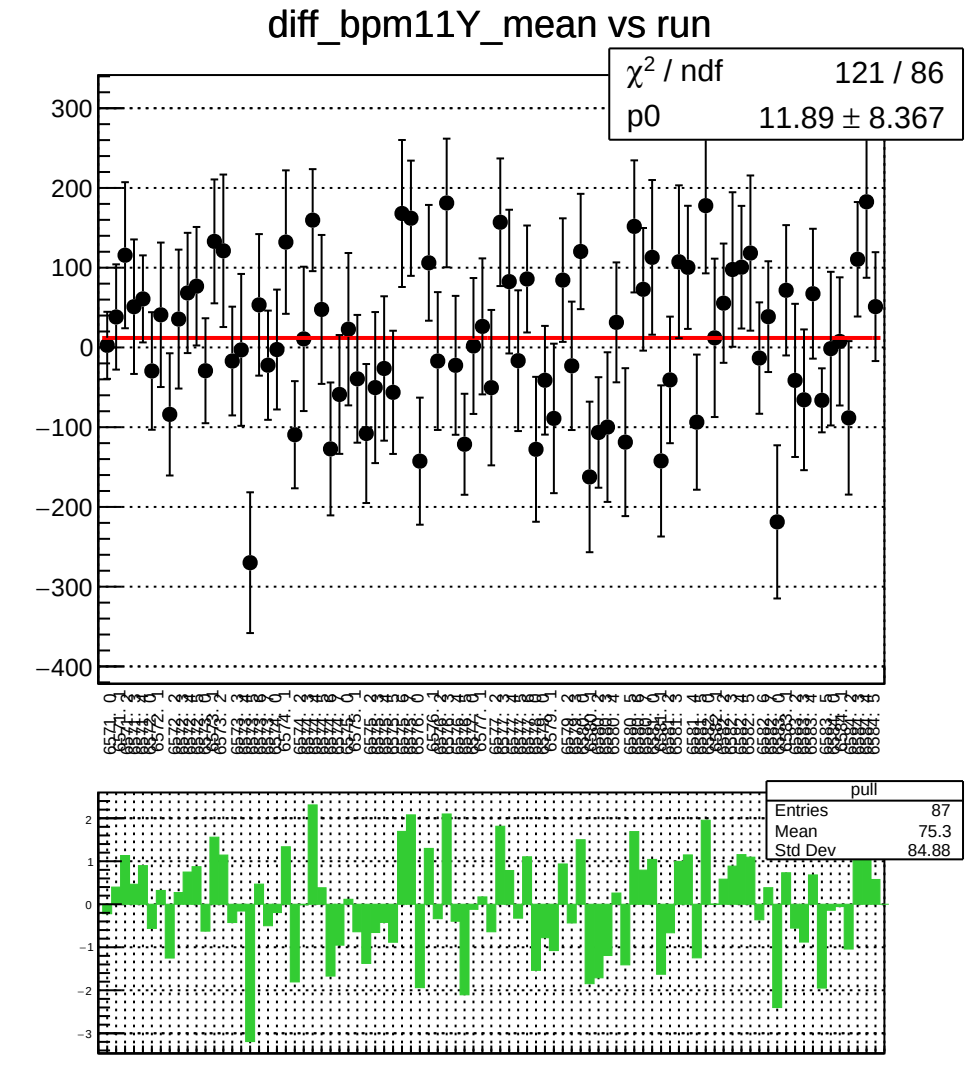

pull1D
Entries 87
Mean −0.009499
Std Dev 1.164

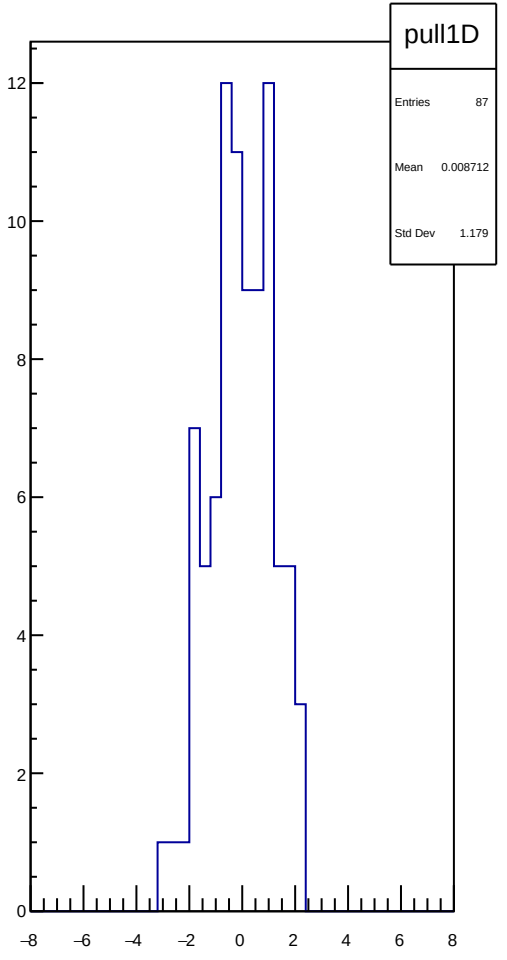

diff_bpm1Y_rms vs run
χ² / ndf 3.378e+04 / 86
p0 6811 ± 5.298
8000
7000
6000
5000
4000

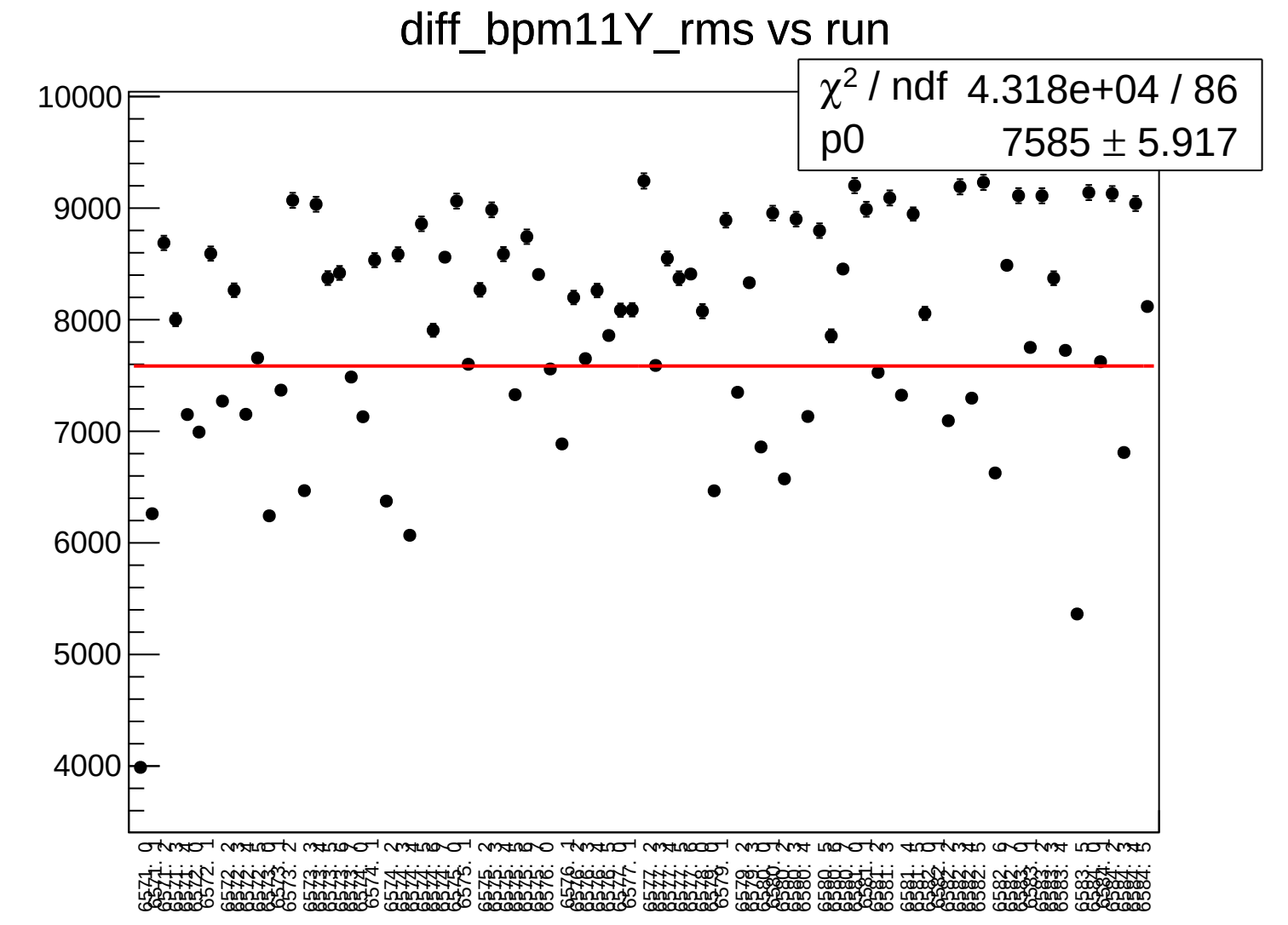

diff_bpm11X_mean vs run
χ² / ndf 95.75 / 86
p0 5.264 ± 10.82
pull
Entries 87
Mean −532
Std Dev 0

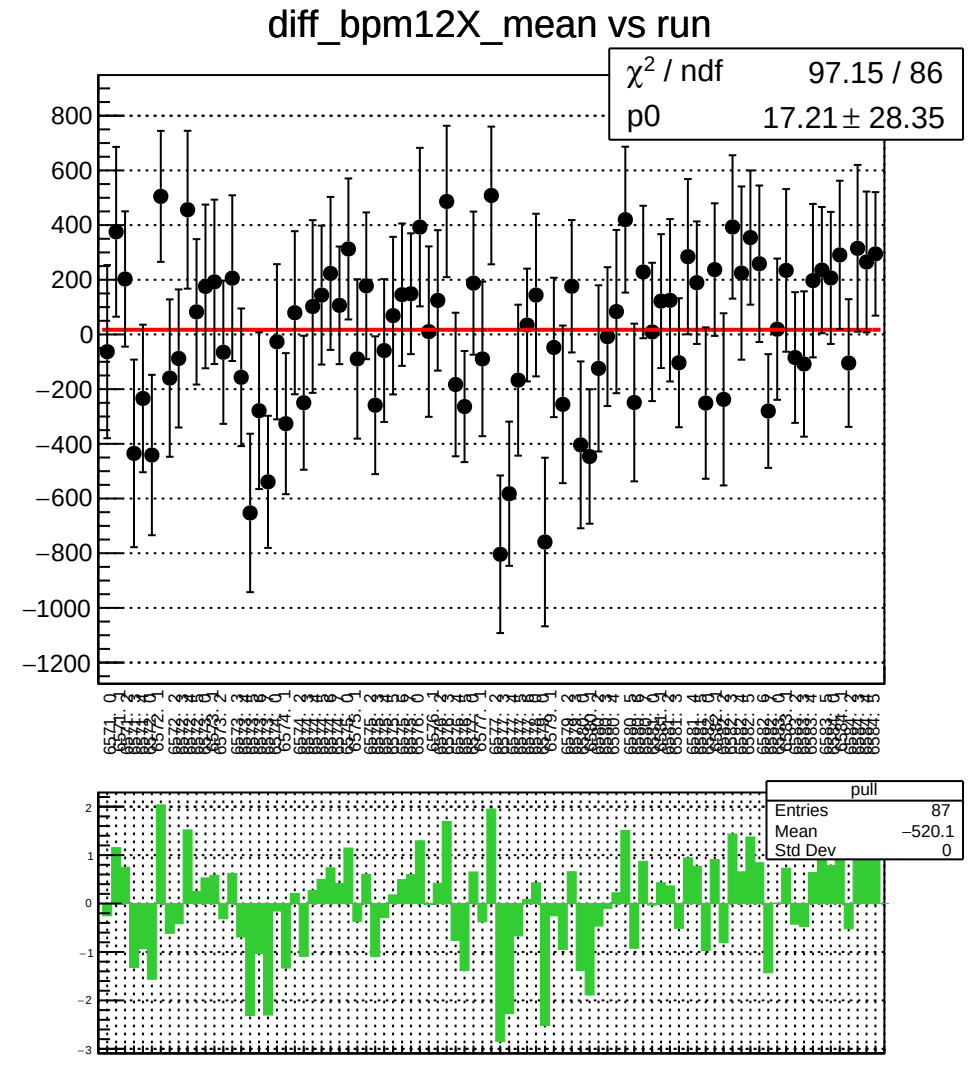

pull1D
Entries 87
Mean −0.007244
Std Dev 1.049

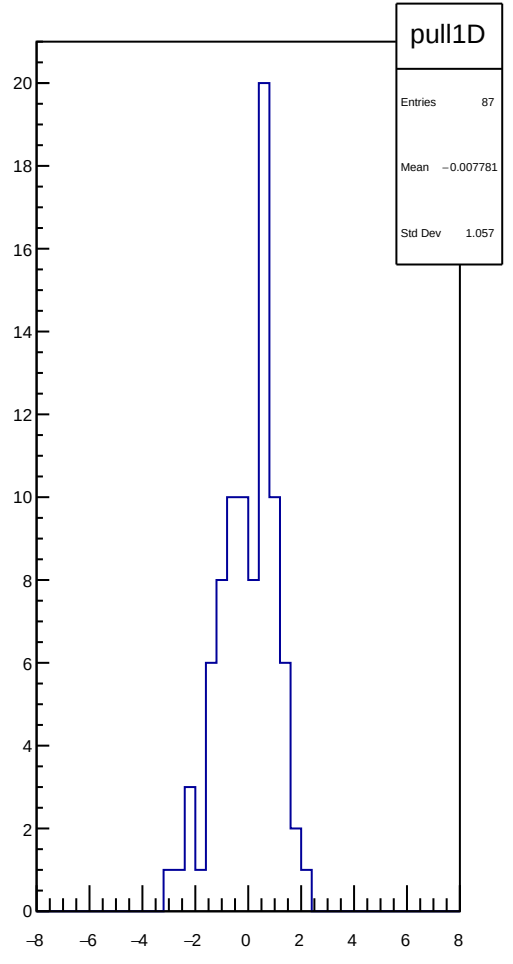

diff_bpm11X_rms vs run
χ² / ndf 1.386e+04 / 86
p0 9900 ± 7.654
14000
13000
12000
11000
10000
9000
8000

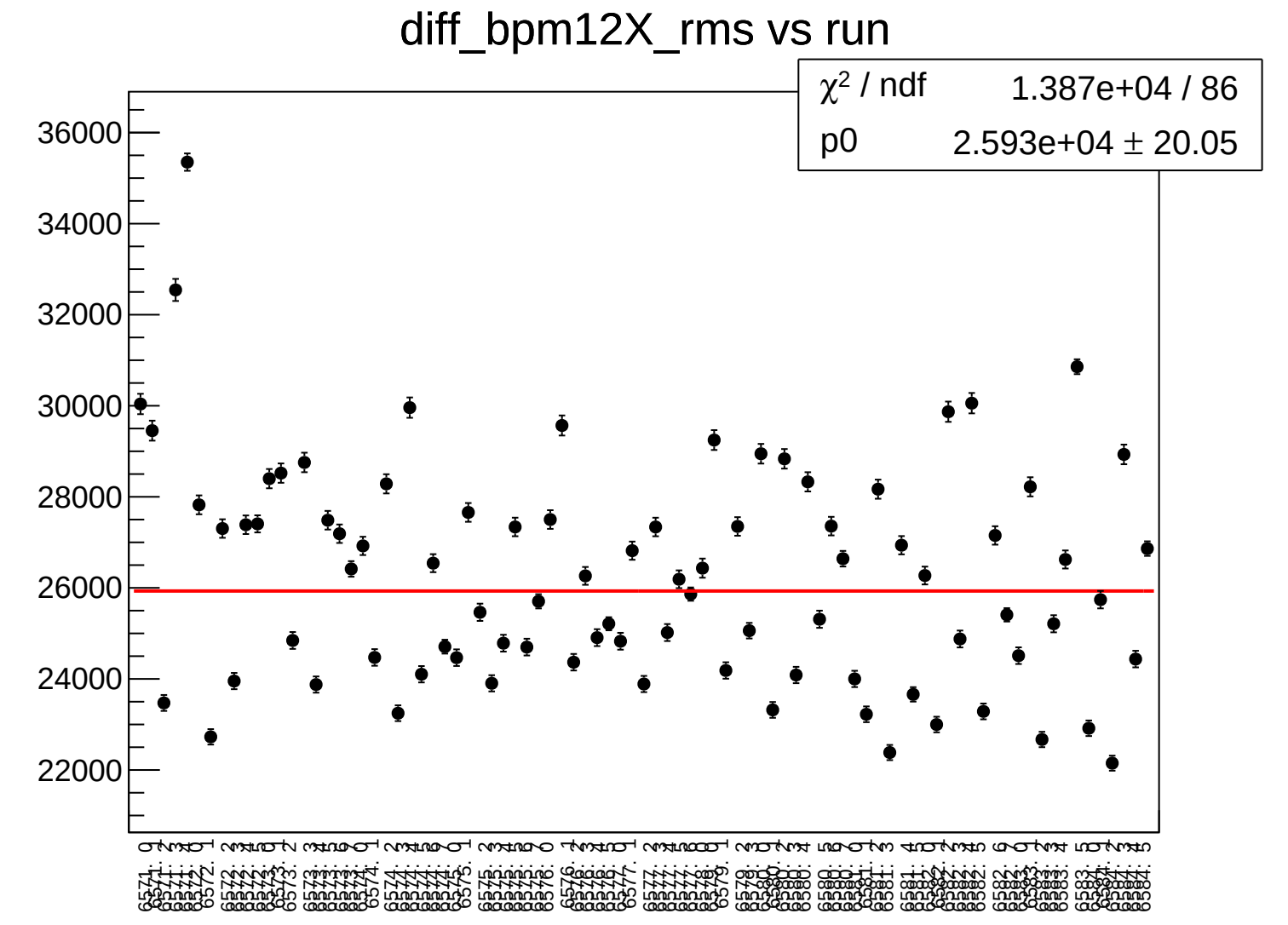

diff_bpm11Y_mean vs run
χ² / ndf 121 / 86
p0 11.89 ± 8.367
pull
Entries 87
Mean 75.3
Std Dev 84.88

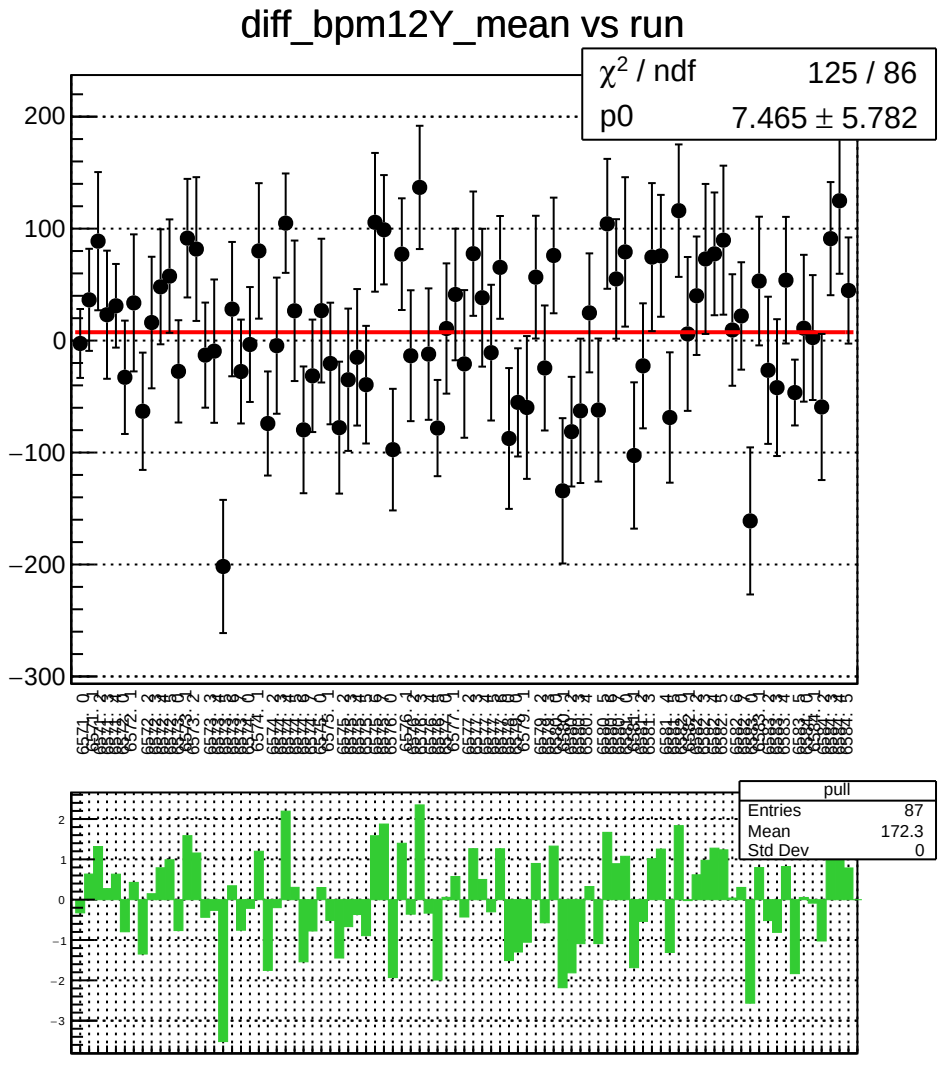

pull1D
Entries 87
Mean 0.008712
Std Dev 1.179

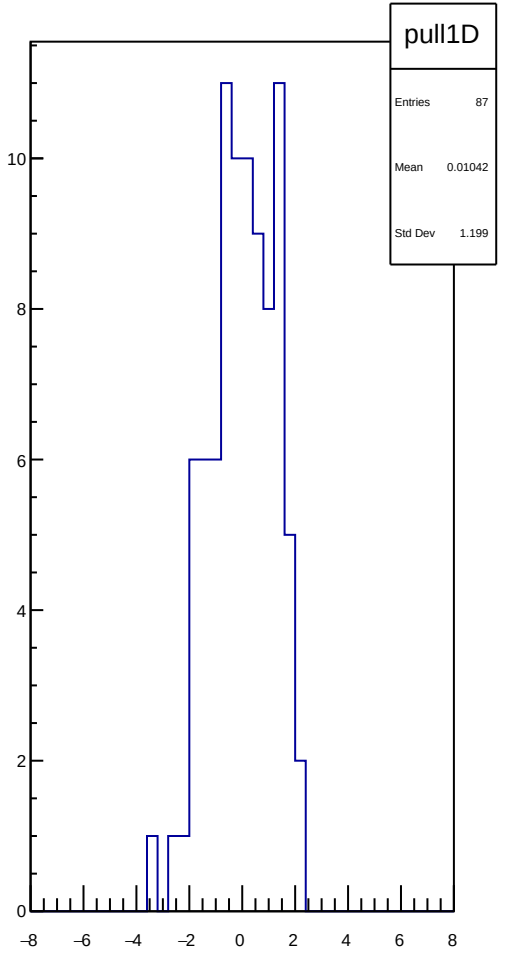

diff_bpm11Y_rms vs run
χ² / ndf 4.318e+04 / 86
p0 7585 ± 5.917
10000
9000
8000
7000
6000
5000
4000

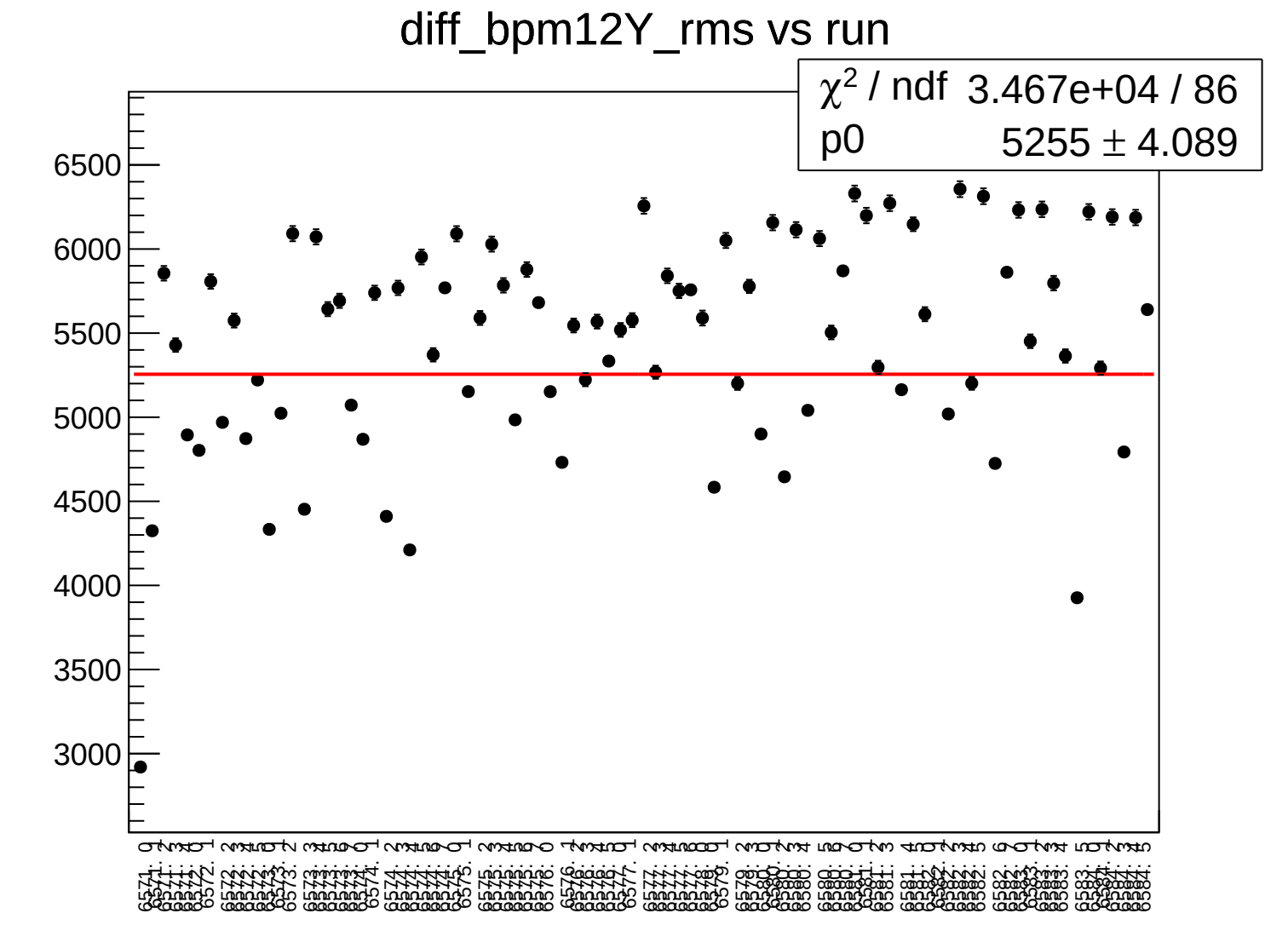

diff_bpm12X_mean vs run
χ² / ndf 97.15 / 86
p0 17.21 ± 28.35
pull
Entries 87
Mean −520.1
Std Dev 0

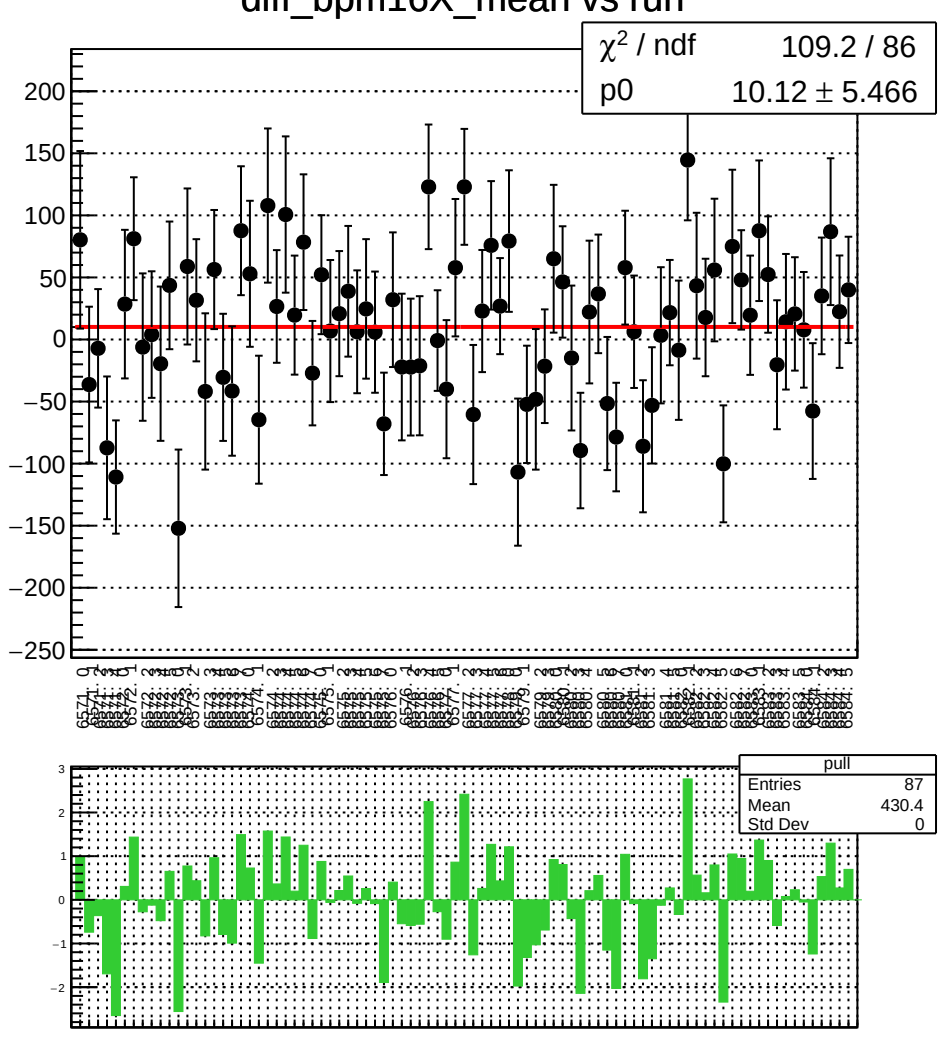

pull1D
Entries 87
Mean −0.007781
Std Dev 1.057

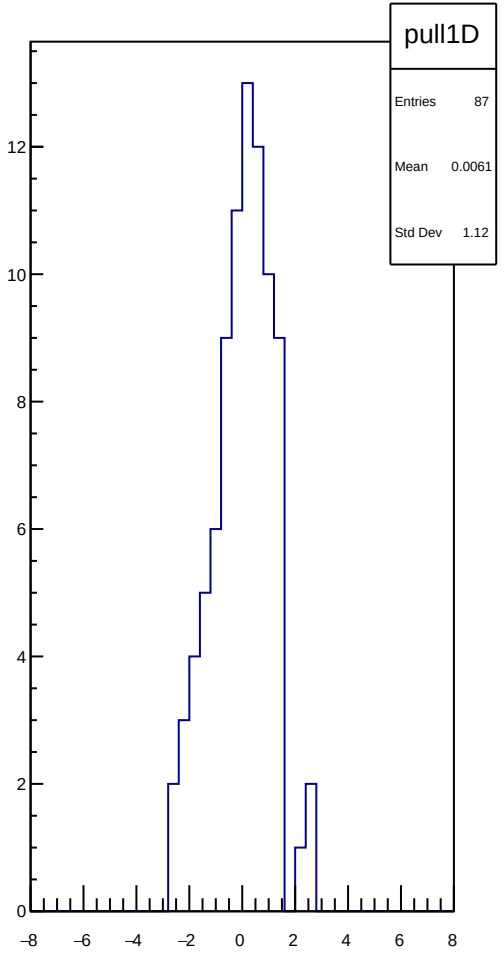

diff_bpm12X_rms vs run
χ² / ndf 1.387e+04 / 86
p0 2.593e+04 ± 20.05
36000
34000
32000
30000
28000
26000
24000
22000

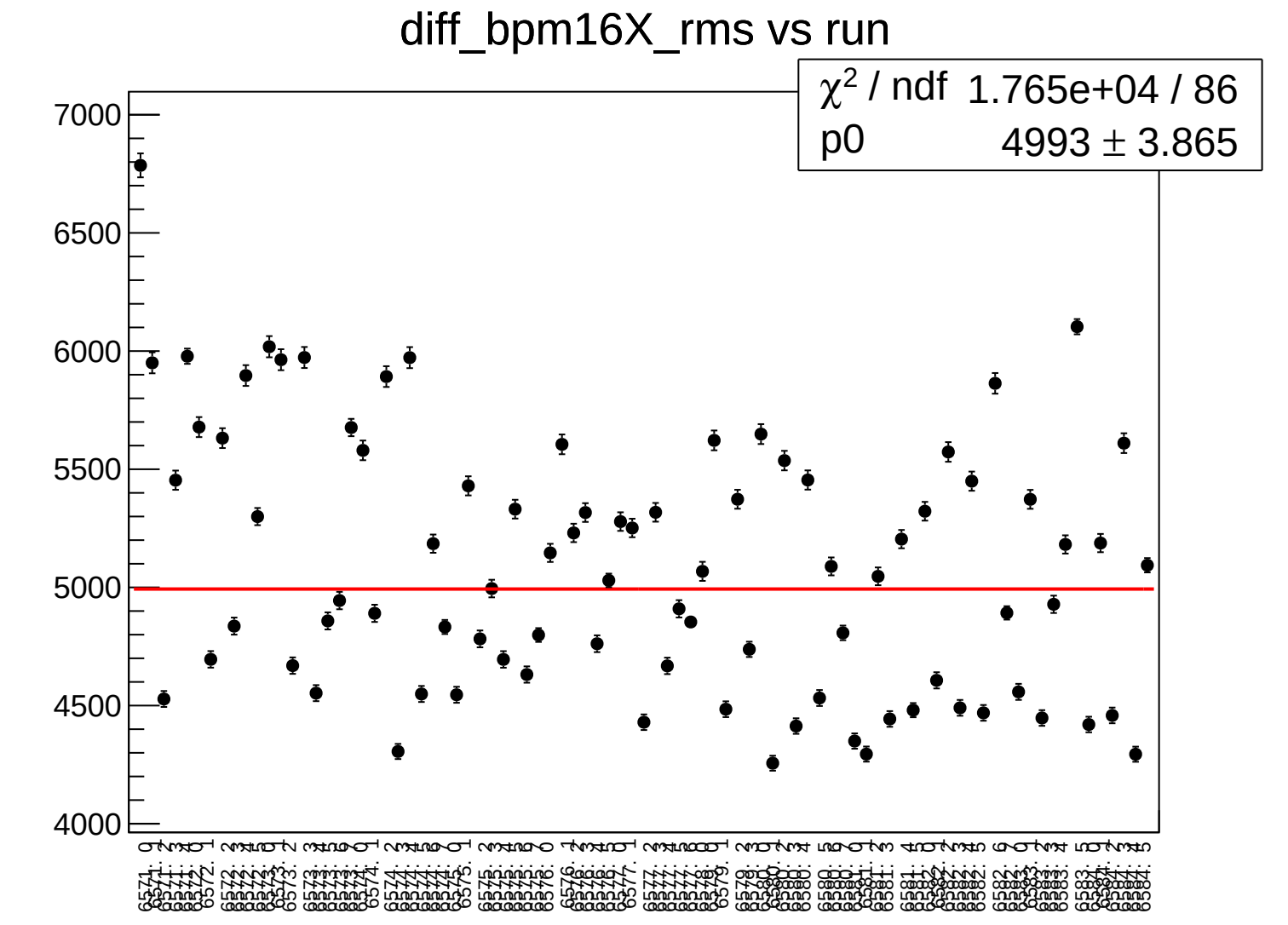

diff_bpm12Y_mean vs run
χ² / ndf 125 / 86
p0 7.465 ± 5.782
200
100
0
−100
−200
−300
pull
Entries 87
Mean 172.3
Std Dev 0
2
1
0
−1
−2
−3

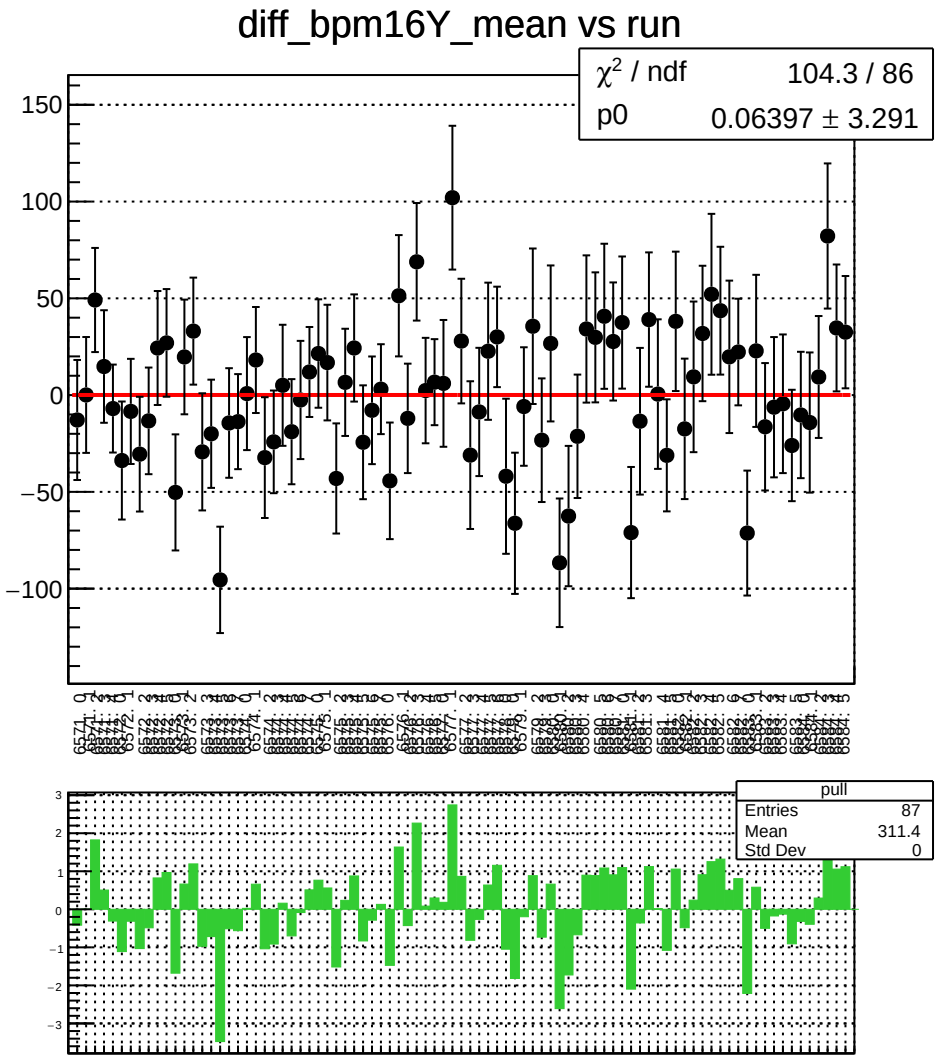

pull1D
Entries 87
Mean 0.01042
Std Dev 1.199
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

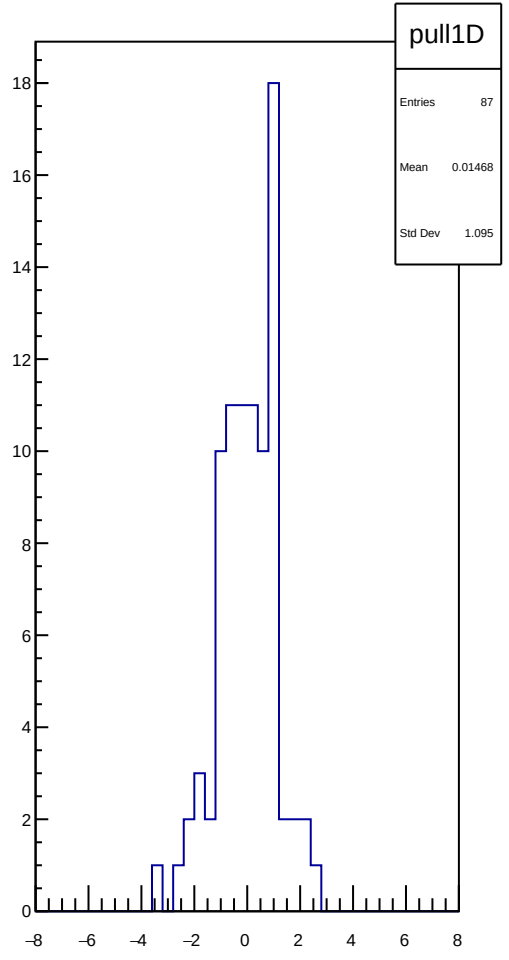

diff_bpm12Y_rms vs run
χ² / ndf 3.467e+04 / 86
p0 5255 ± 4.089
6500
6000
5500
5000
4500
4000
3500
3000

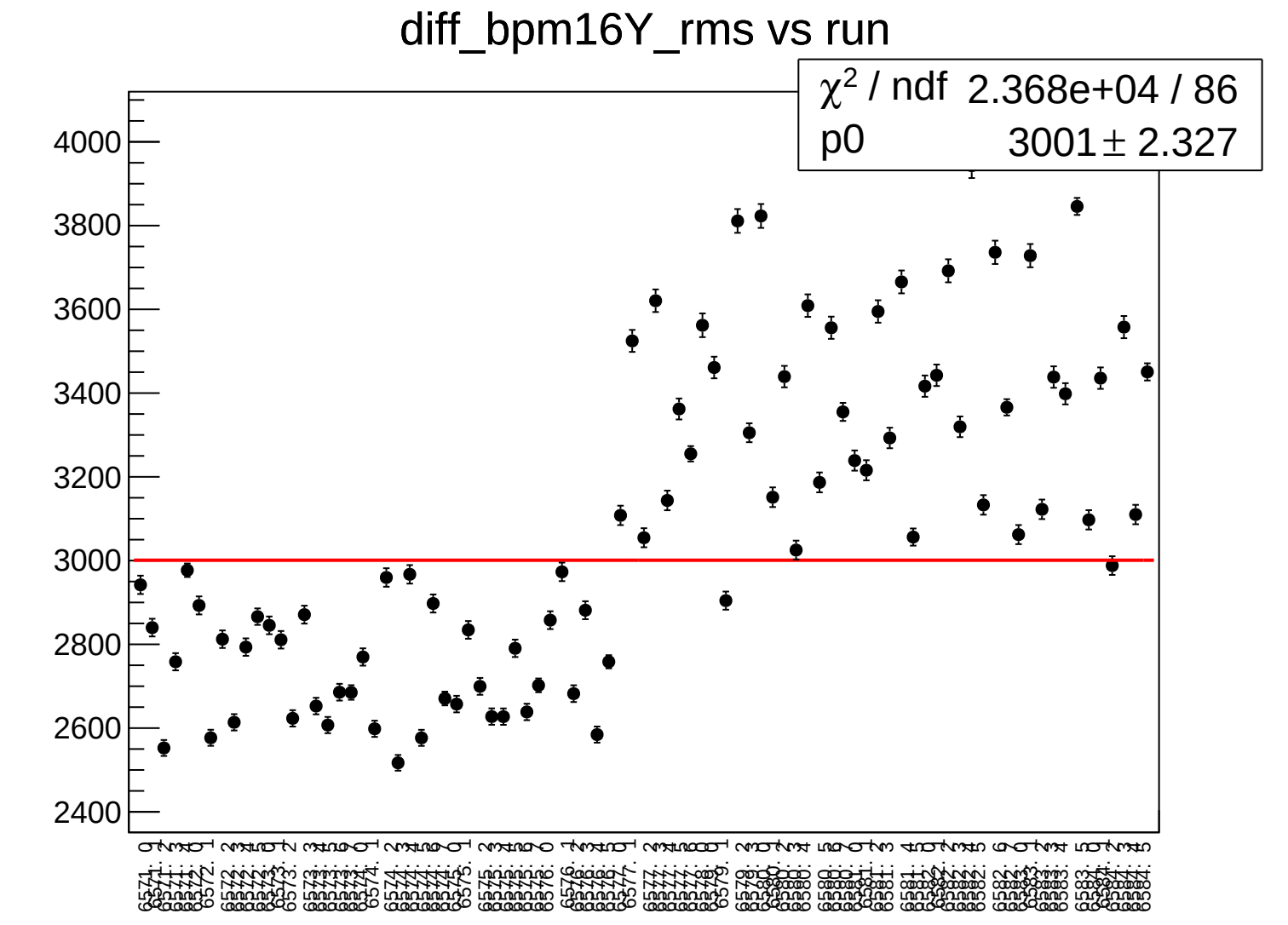

diff_bpm16X_mean vs run
χ² / ndf 109.2 / 86
p0 10.12 ± 5.466
pull
Entries 87
Mean 430.4
Std Dev 0

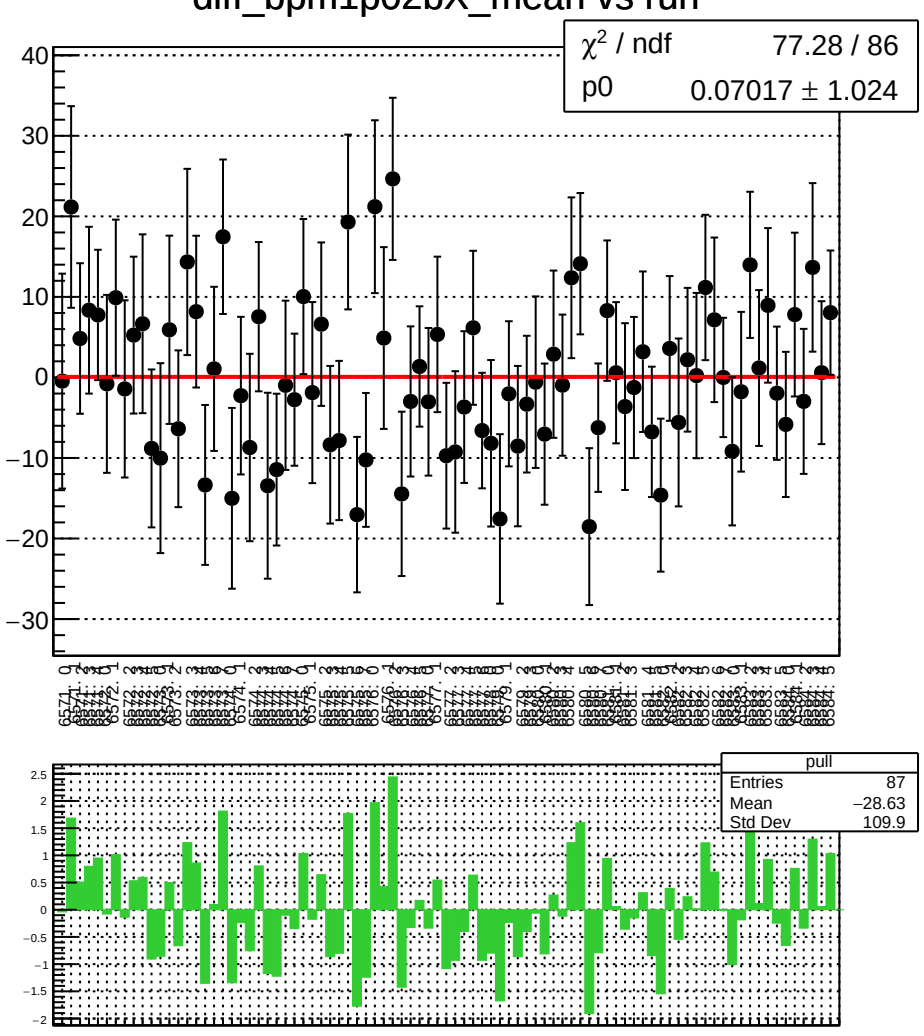

pull1D
Entries 87
Mean 0.0061
Std Dev 1.12

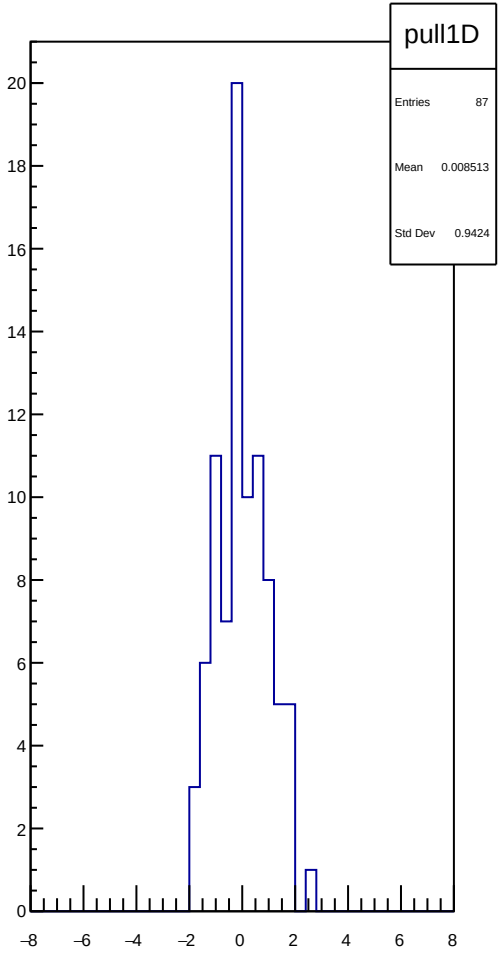

diff_bpm16X_rms vs run
χ² / ndf 1.765e+04 / 86
p0 4993 ± 3.865
7000
6500
6000
5500
5000
4500
4000

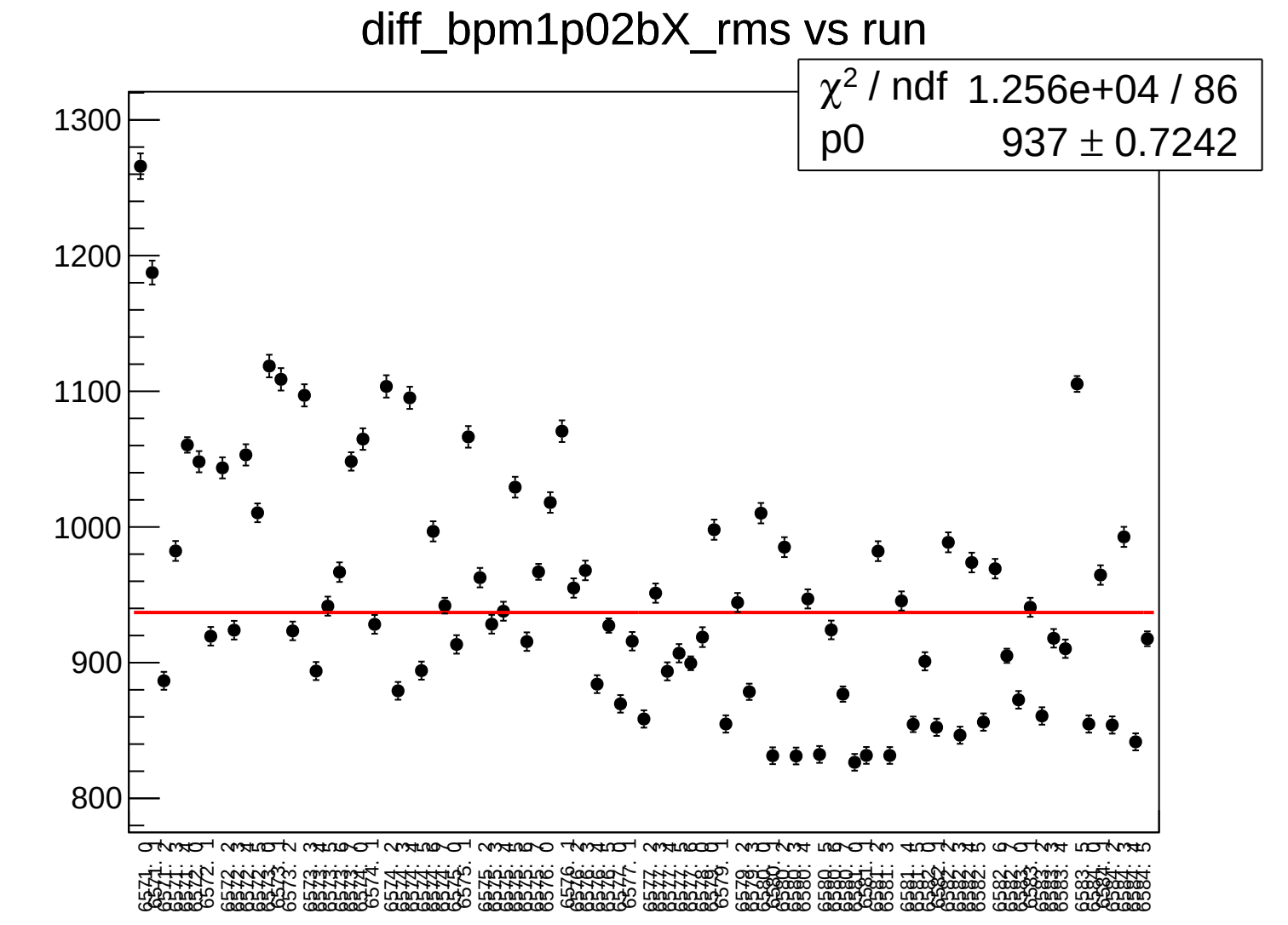

diff_bpm16Y_mean vs run
χ² / ndf 104.3 / 86
p0 0.06397 ± 3.291
150
100
50
0
−50
−100
pull
Entries 87
Mean 311.4
Std Dev 0
3
2
1
0
−1
−2
−3

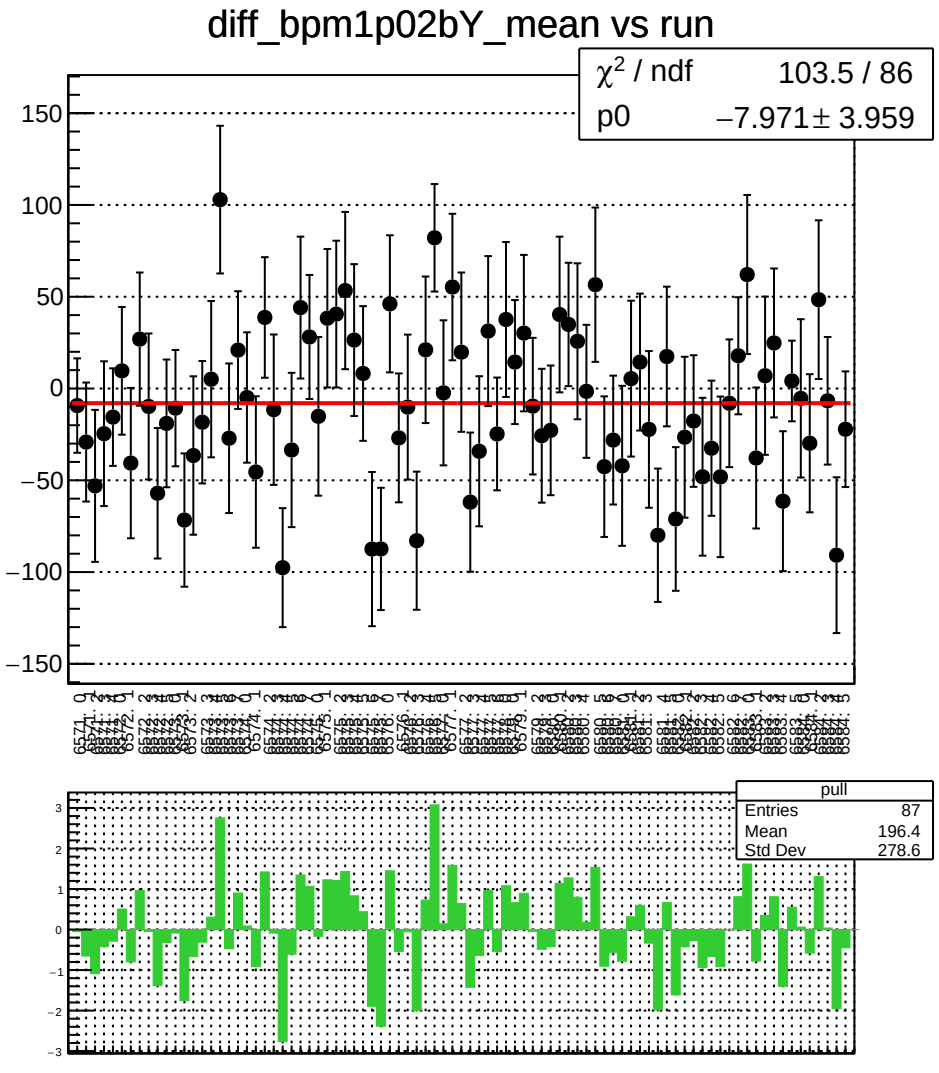

pull1D
Entries 87
Mean 0.01468
Std Dev 1.095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

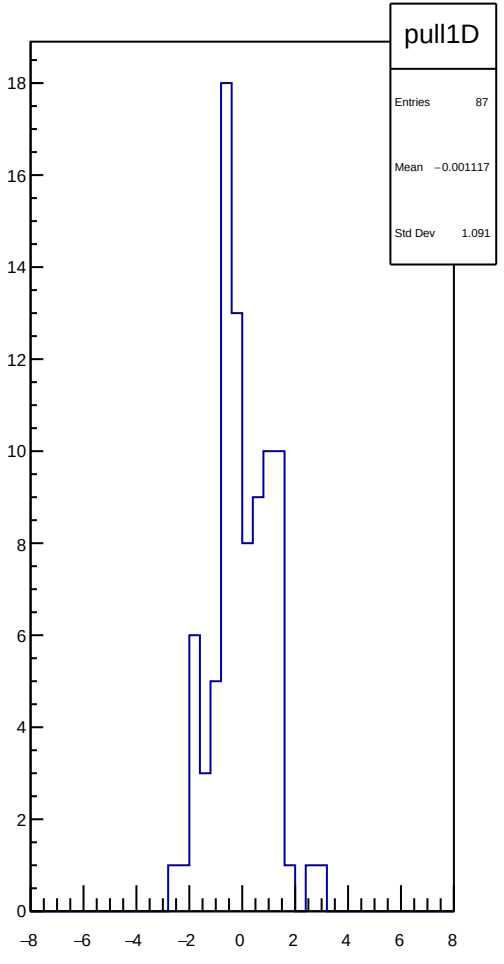

diff_bpm16Y_rms vs run
χ² / ndf 2.368e+04 / 86
p0 3001 ± 2.327
4000
3800
3600
3400
3200
3000
2800
2600
2400

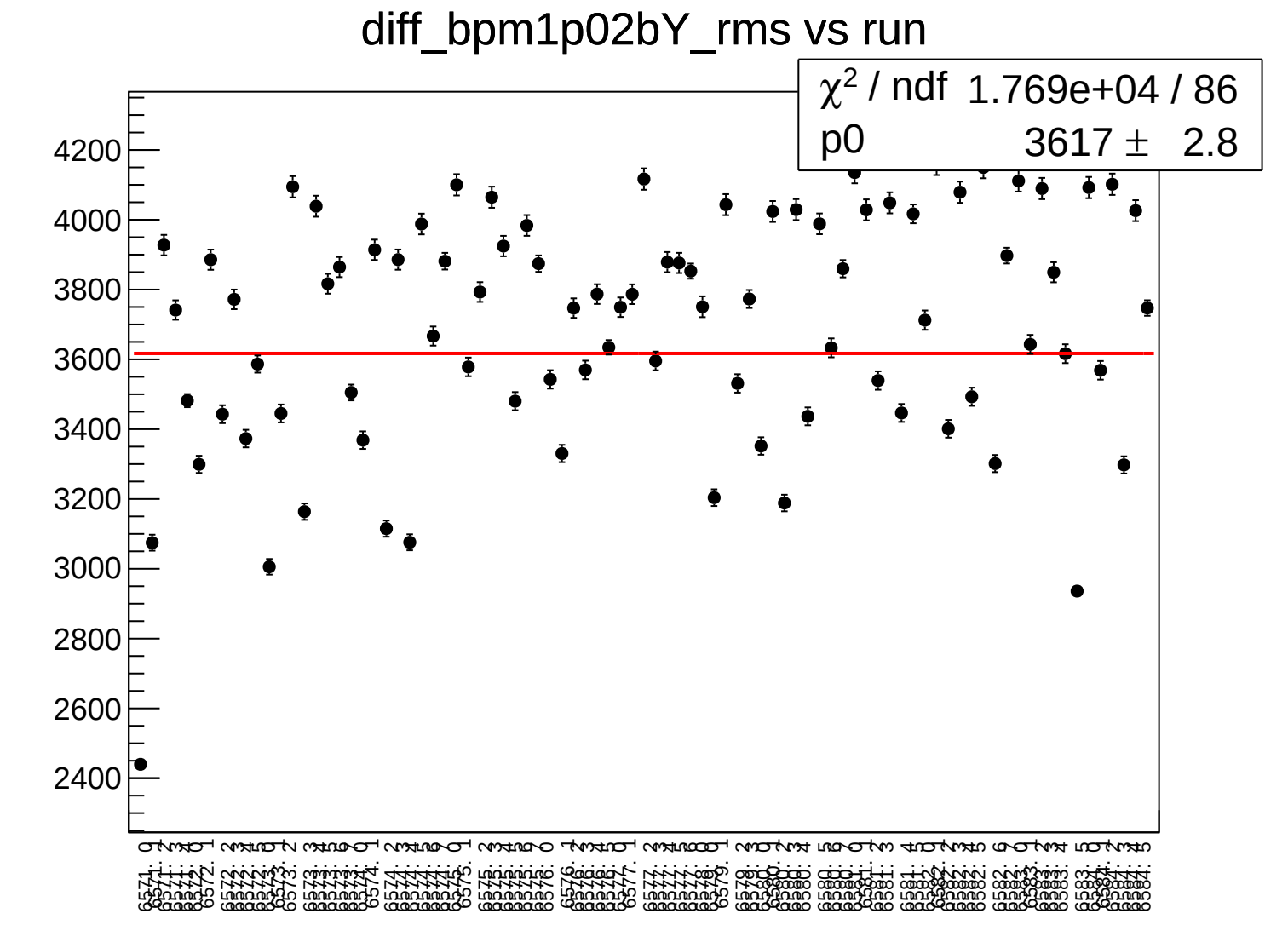

diff_bpm1p02bX_mean vs run
χ² / ndf 77.28 / 86
p0 0.07017 ± 1.024
pull
Entries 87
Mean −28.63
Std Dev 109.9

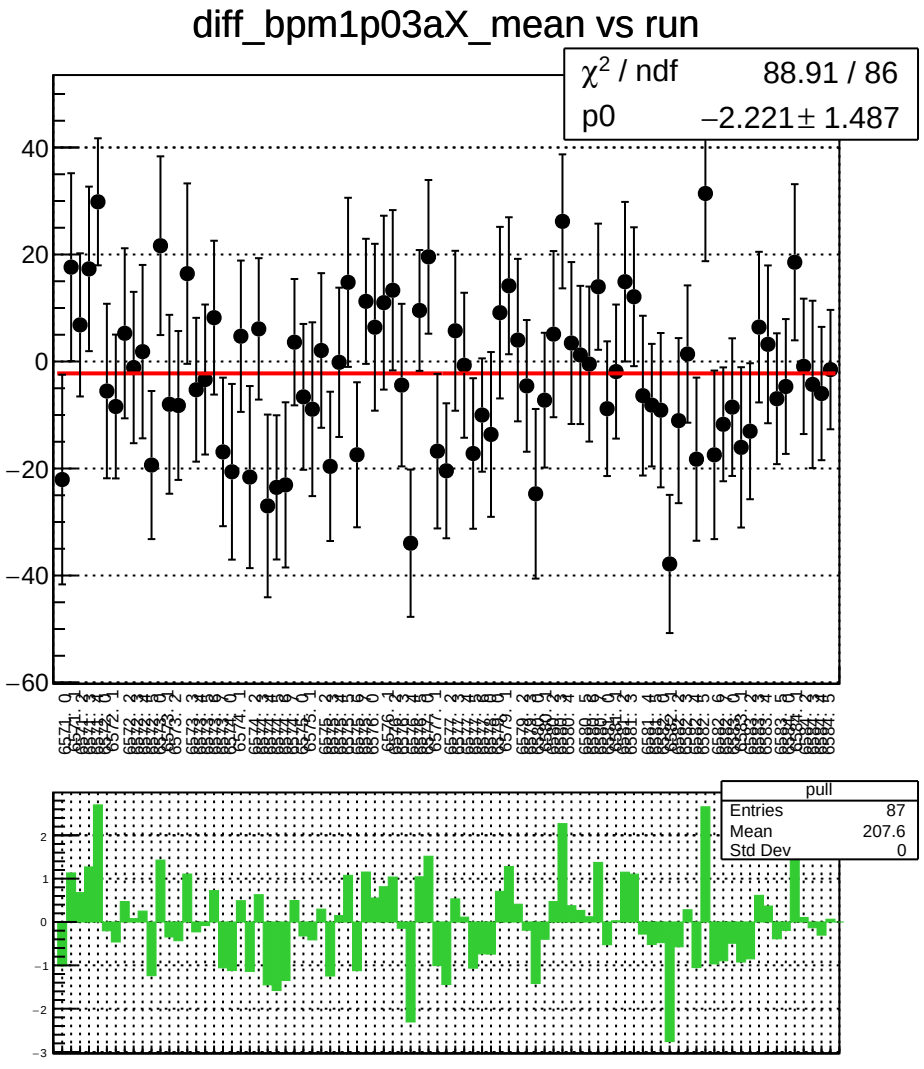

pull1D
Entries 87
Mean 0.008513
Std Dev 0.9424

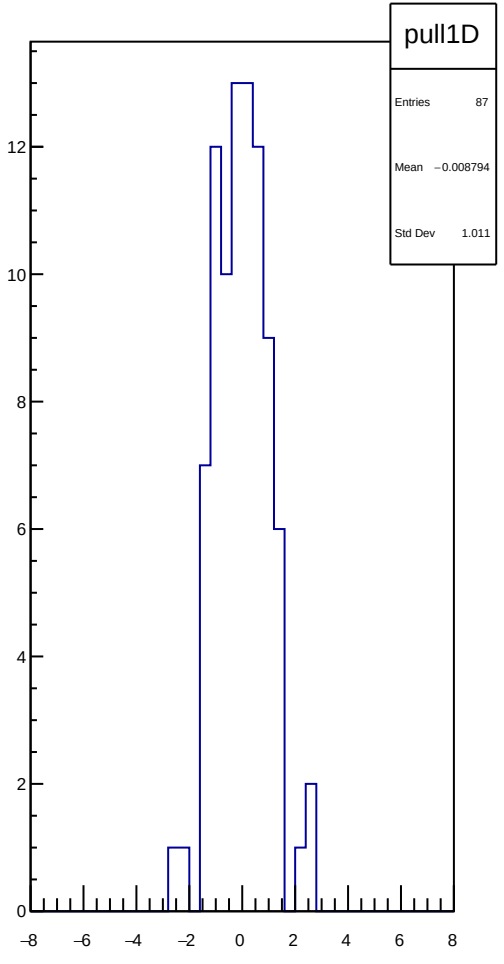

diff_bpm1p02bX_rms vs run
χ² / ndf 1.256e+04 / 86
p0 937 ± 0.7242
1300
1200
1100
1000
900
800

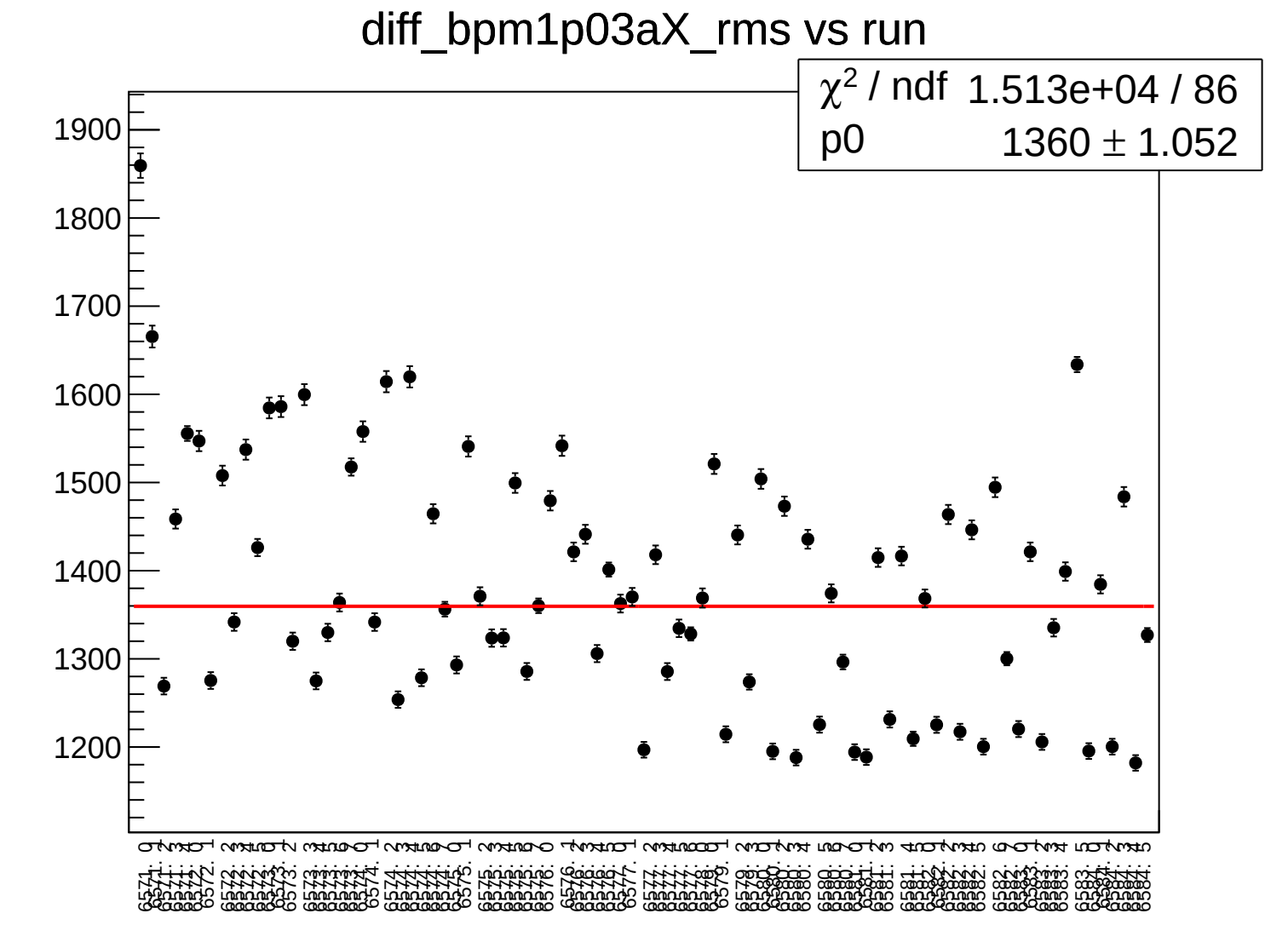

diff_bpm1p02bY_mean vs run
χ² / ndf 103.5 / 86
p0 −7.971 ± 3.959
pull
Entries 87
Mean 196.4
Std Dev 278.6

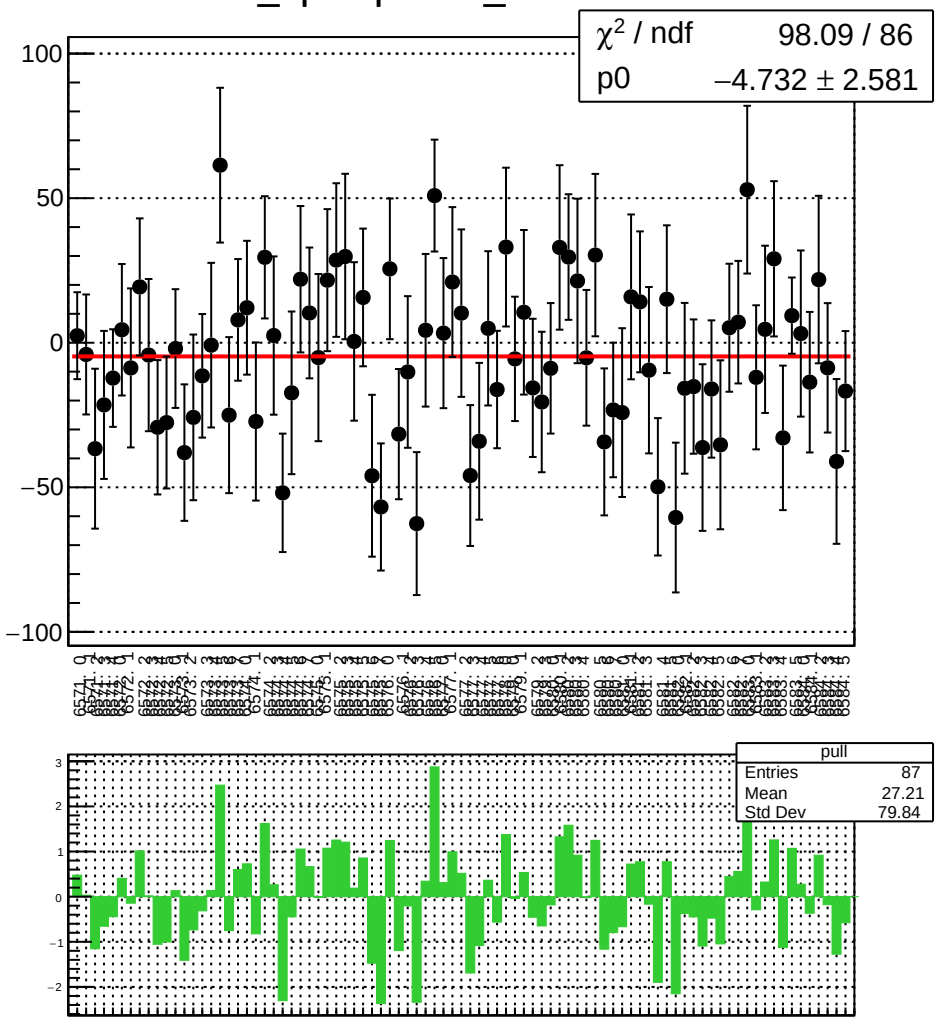

pull1D
Entries 87
Mean −0.001117
Std Dev 1.091

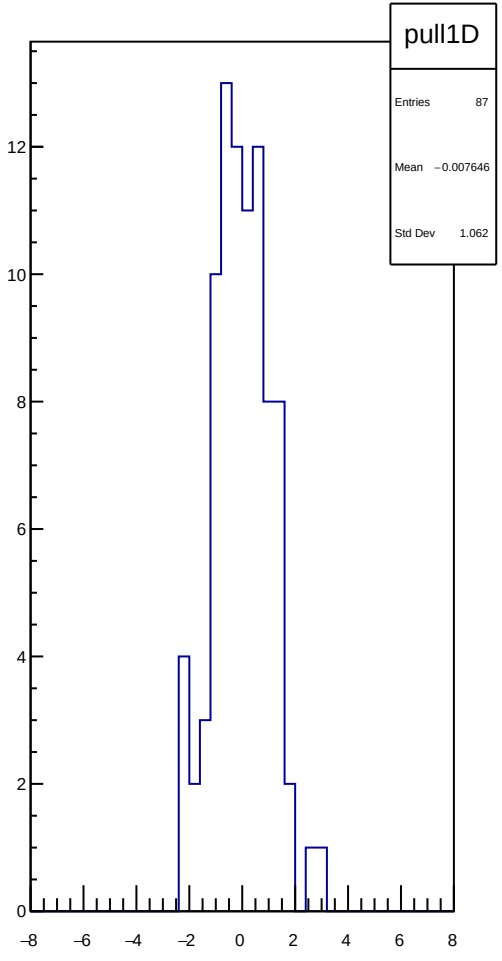

diff_bpm1p02bY_rms vs run
χ² / ndf 1.769e+04 / 86
p0 3617 ± 2.8
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

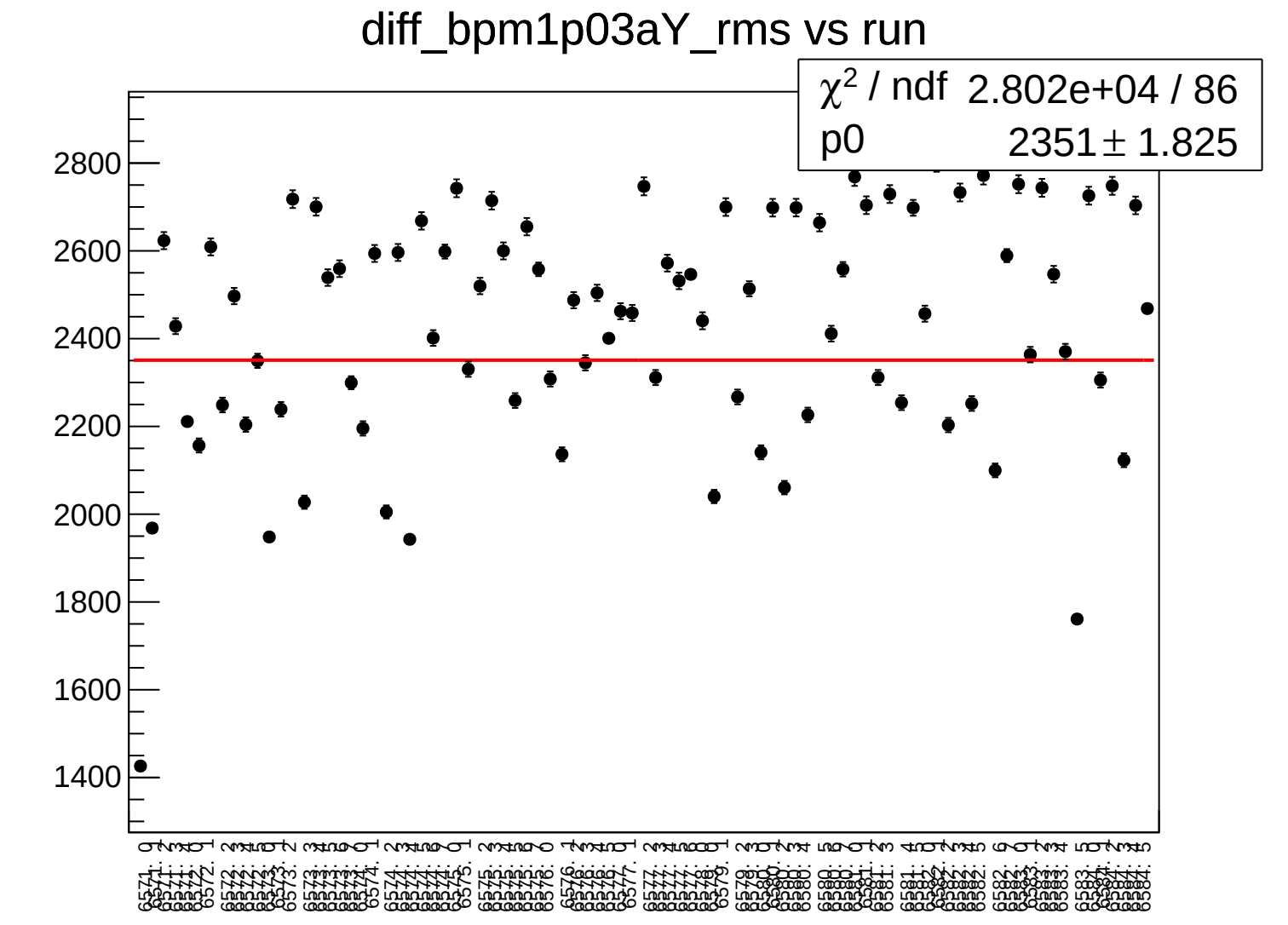

diff_bpm1p03aX_mean vs run
χ² / ndf 88.91 / 86
p0 −2.221± 1.487
pull
Entries 87
Mean 207.6
Std Dev 0

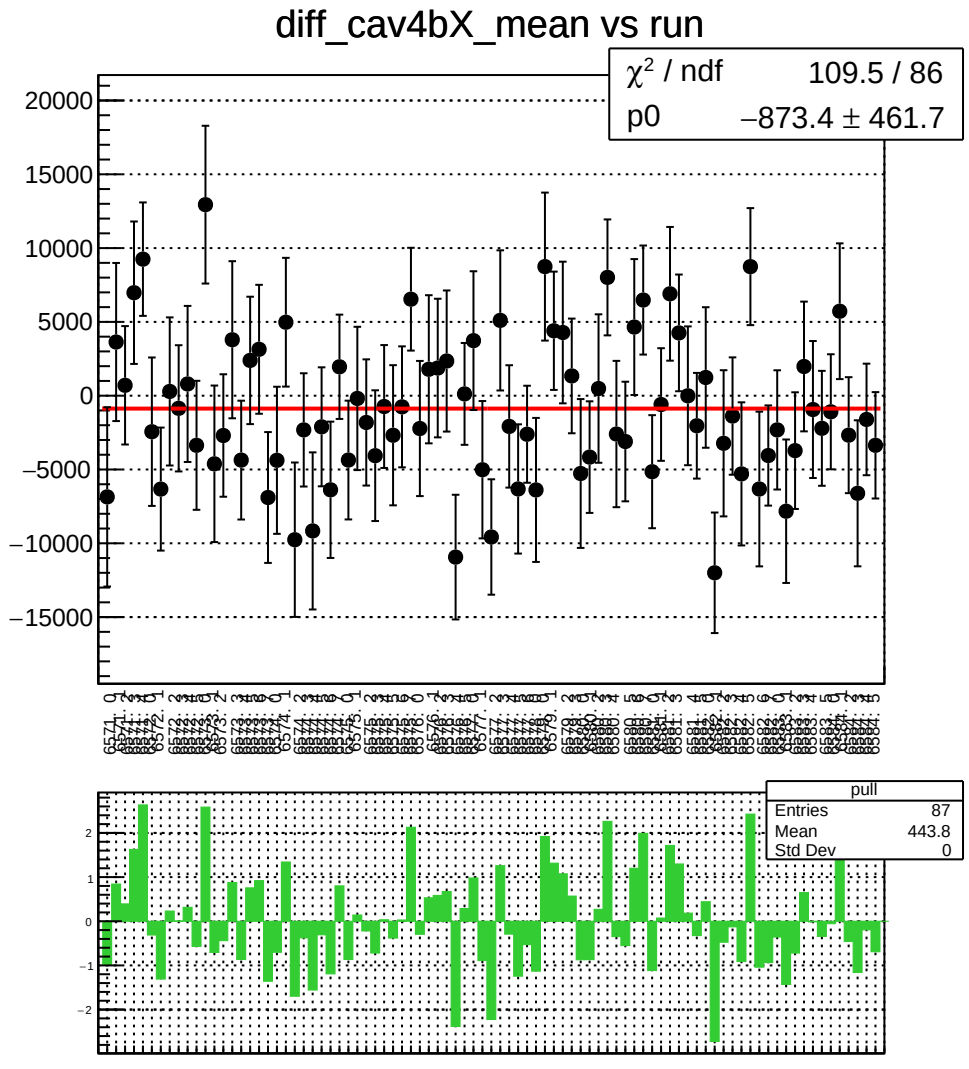

pull1D
Entries 87
Mean −0.008794
Std Dev 1.011

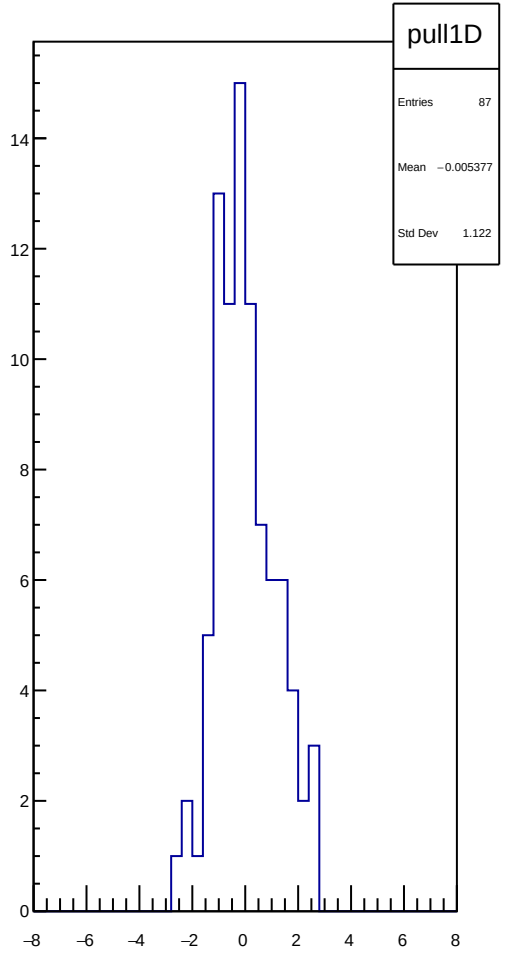

diff_bpm1p03aX_rms vs run
χ² / ndf 1.513e+04 / 86
p0 1360 ± 1.052
1900
1800
1700
1600
1500
1400
1300
1200

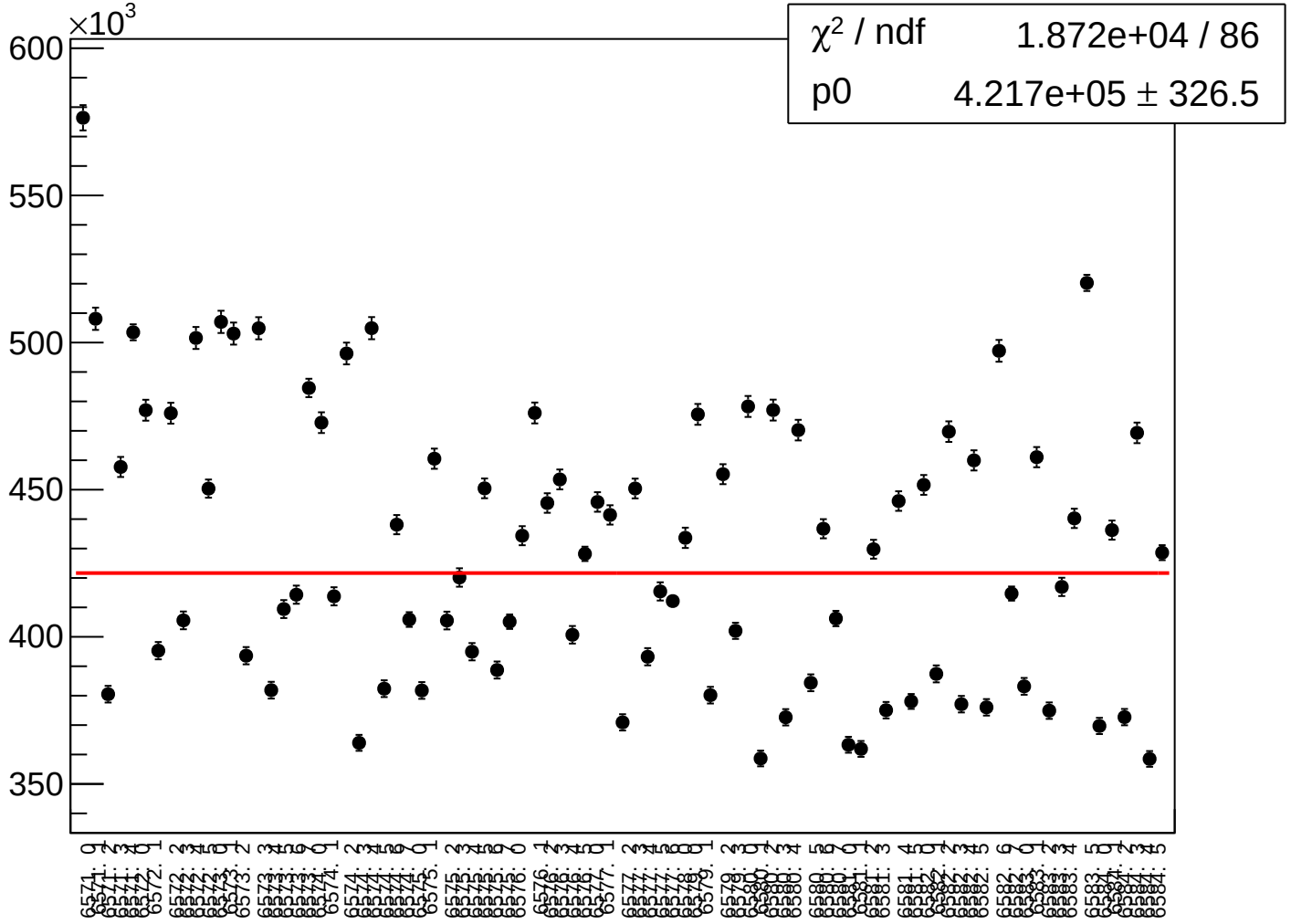

diff_bpm1p03aY_mean vs run
χ² / ndf 98.09 / 86
p0 −4.732 ± 2.581
100
50
0
−50
−100
pull
Entries 87
Mean 27.21
Std Dev 79.84
3
2
1
0
−1
−2

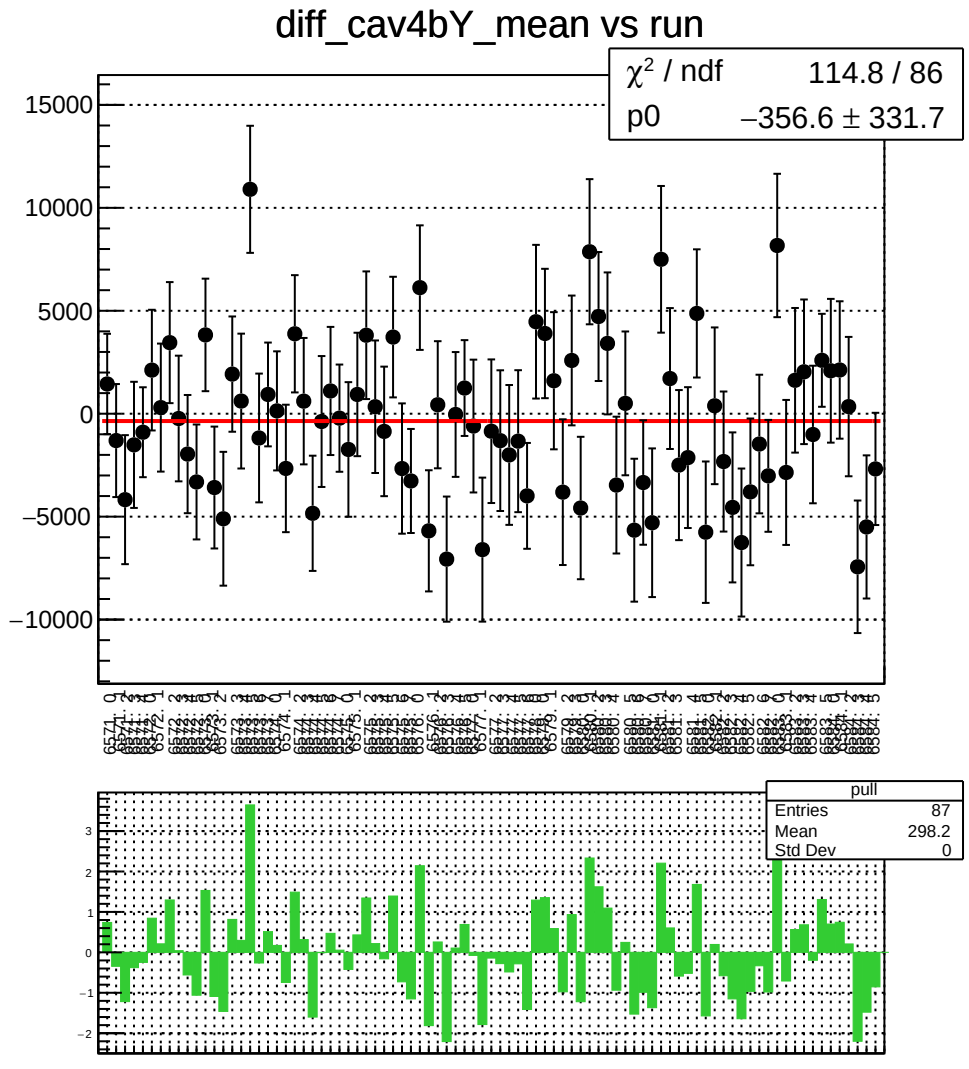

pull1D
Entries 87
Mean −0.007646
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

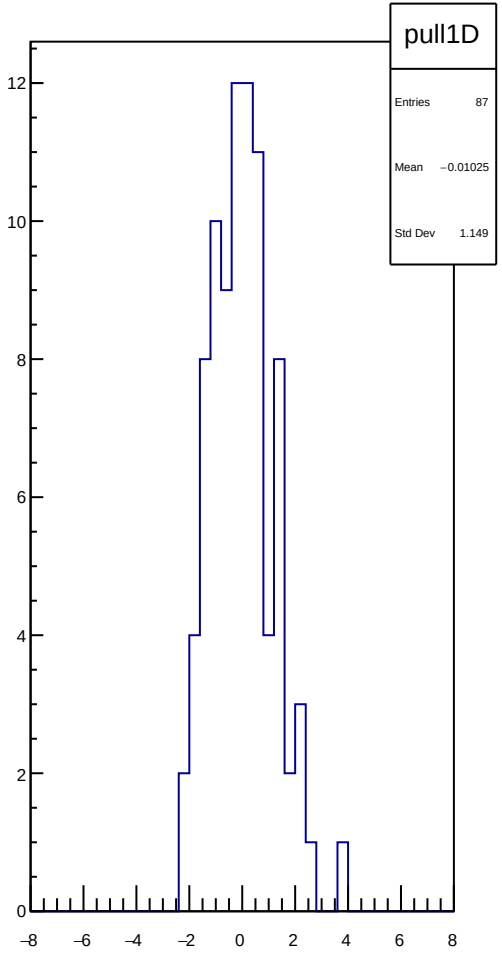

diff_bpm1p03aY_rms vs run
χ² / ndf 2.802e+04 / 86
p0 2351 ± 1.825
2800
2600
2400
2200
2000
1800
1600
1400

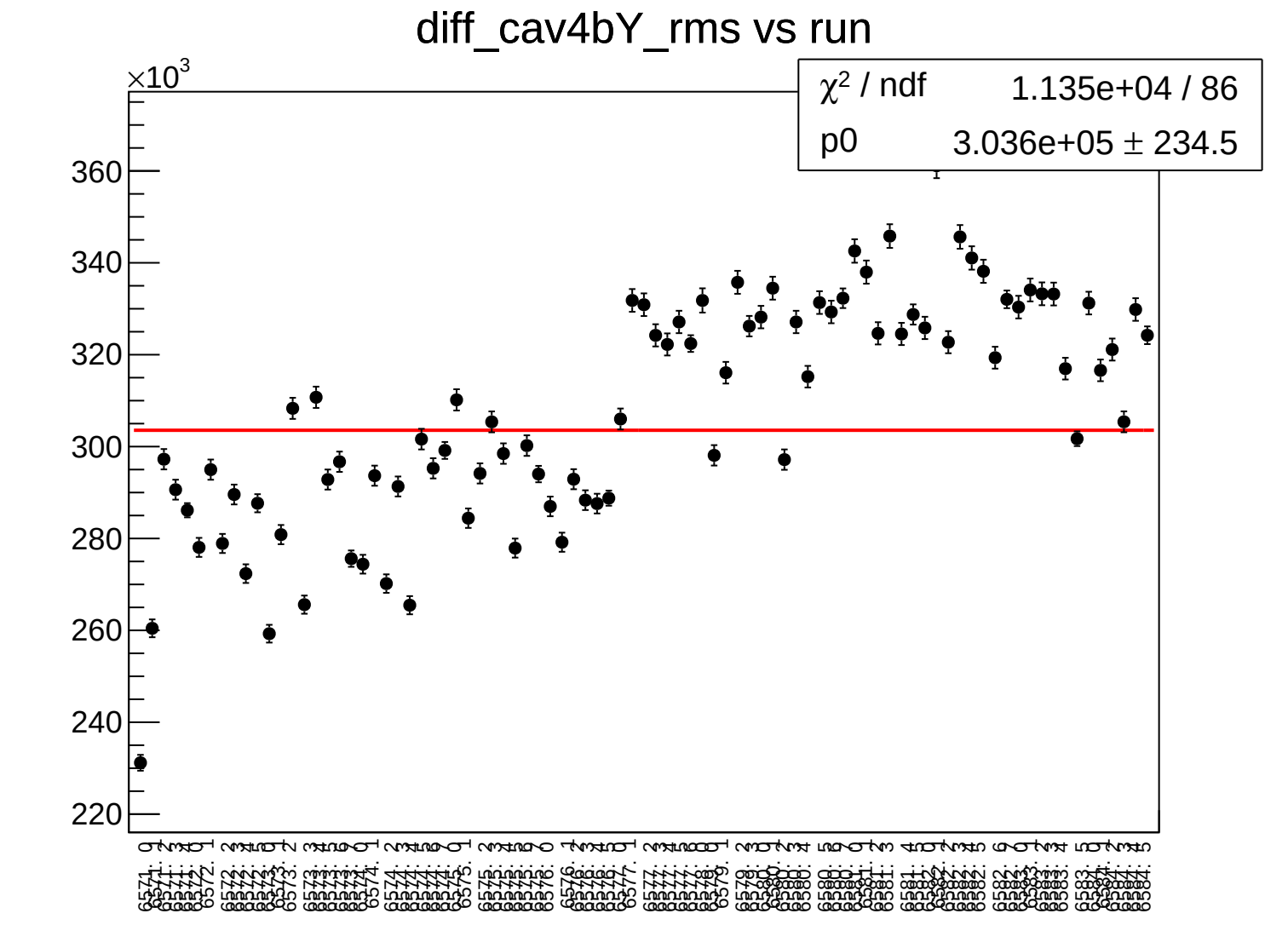

diff_cav4bX_mean vs run
χ² / ndf 109.5 / 86
p0 −873.4 ± 461.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 443.8
Std Dev 0
2
1
0
−1
−2

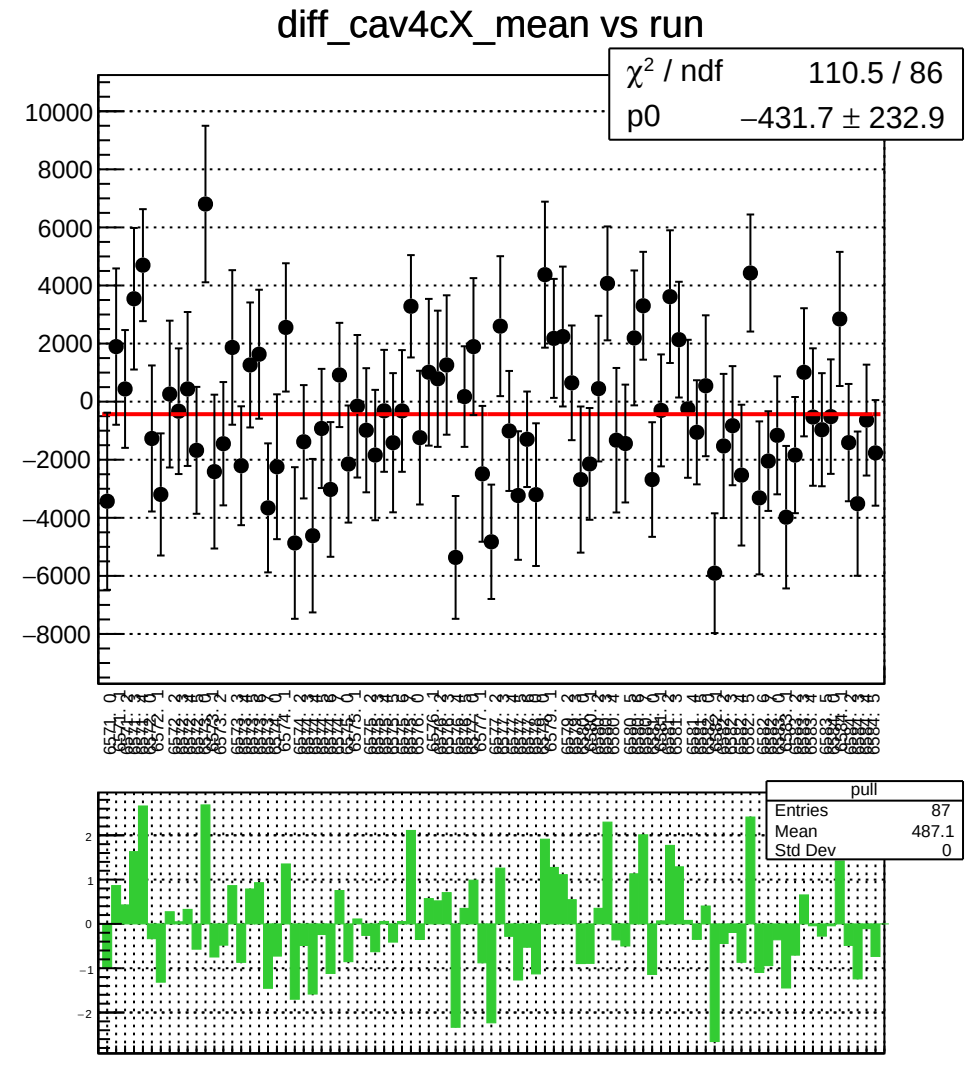

pull1D
Entries 87
Mean −0.005377
Std Dev 1.122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

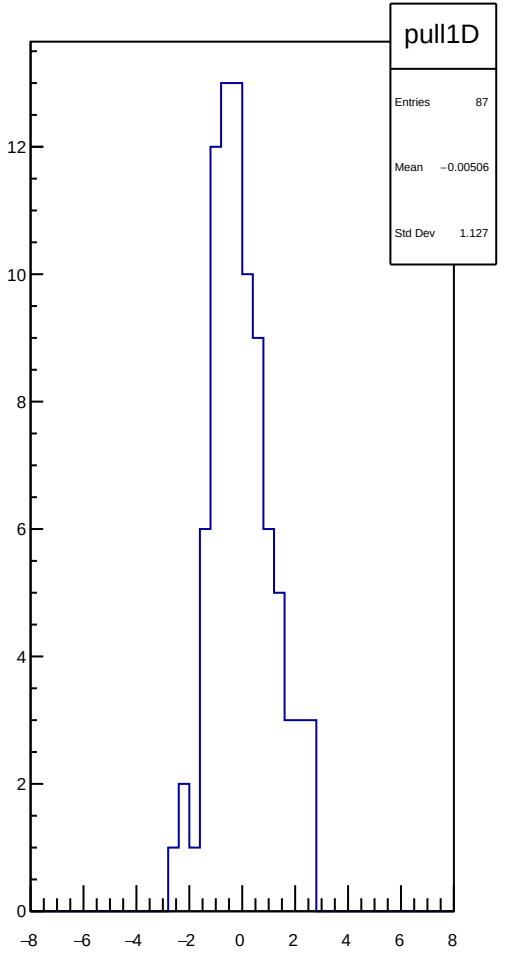

diff_cav4bX_rms vs run
×10^3
600
550
500
450
400
350
χ² / ndf 1.872e+04 / 86
p0 4.217e+05 ± 326.5

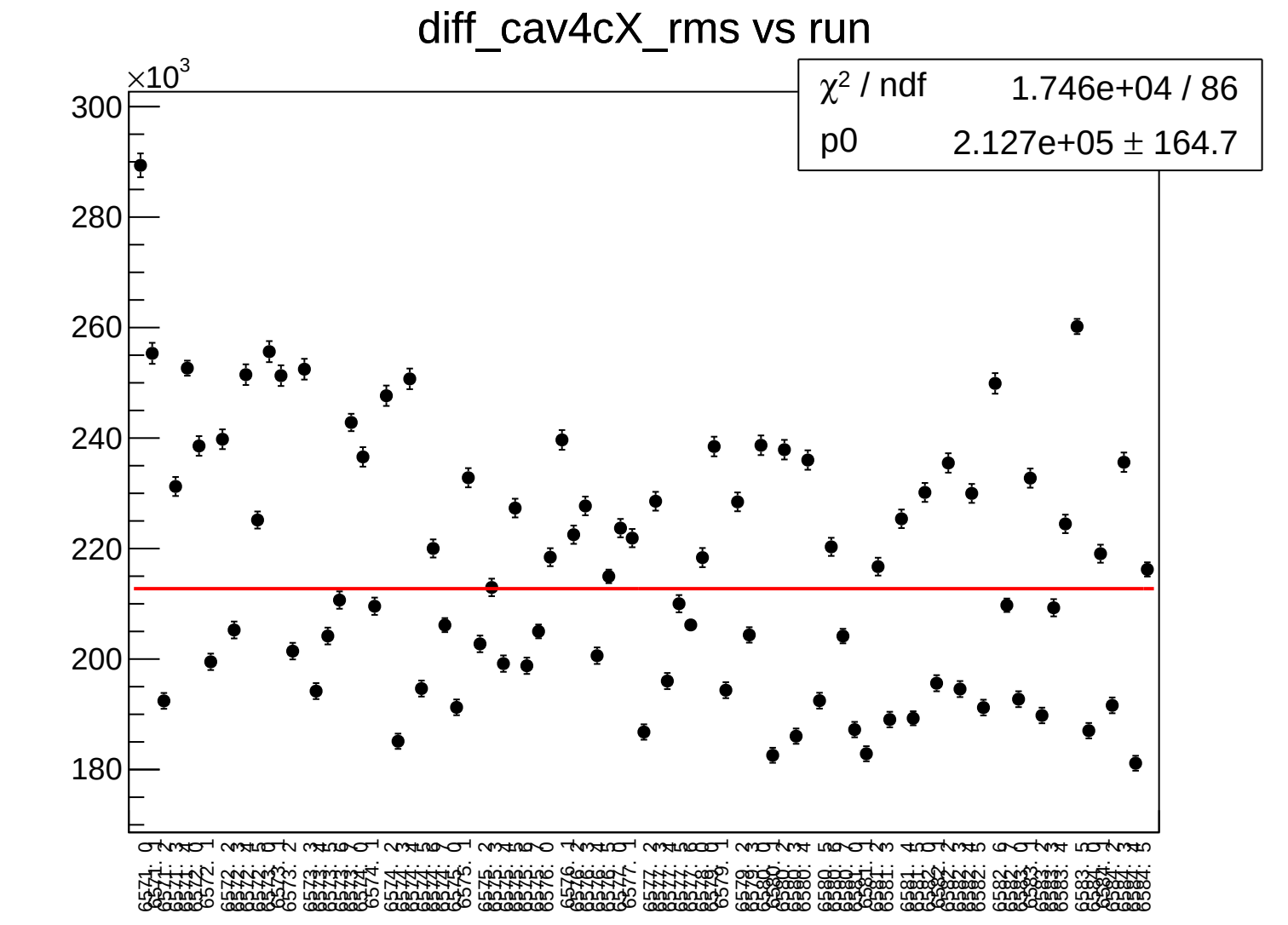

diff_cav4bY_mean vs run
χ² / ndf 114.8 / 86
p0 −356.6 ± 331.7
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 298.2
Std Dev 0
3
2
1
0
−1
−2

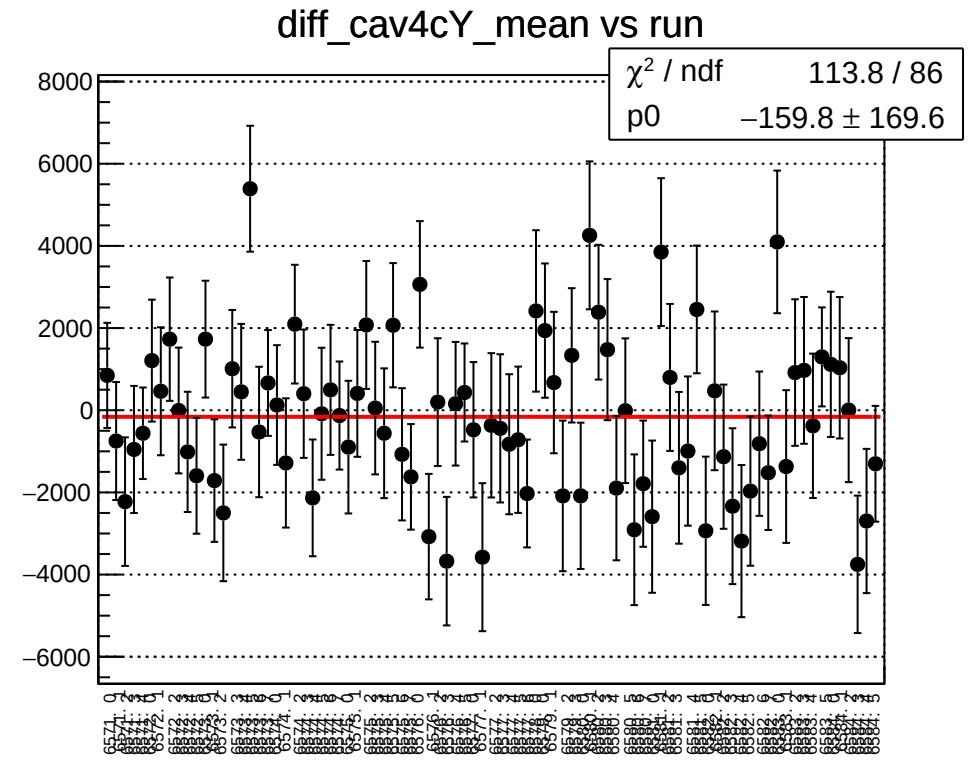

pull1D
Entries 87
Mean −0.01025
Std Dev 1.149
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

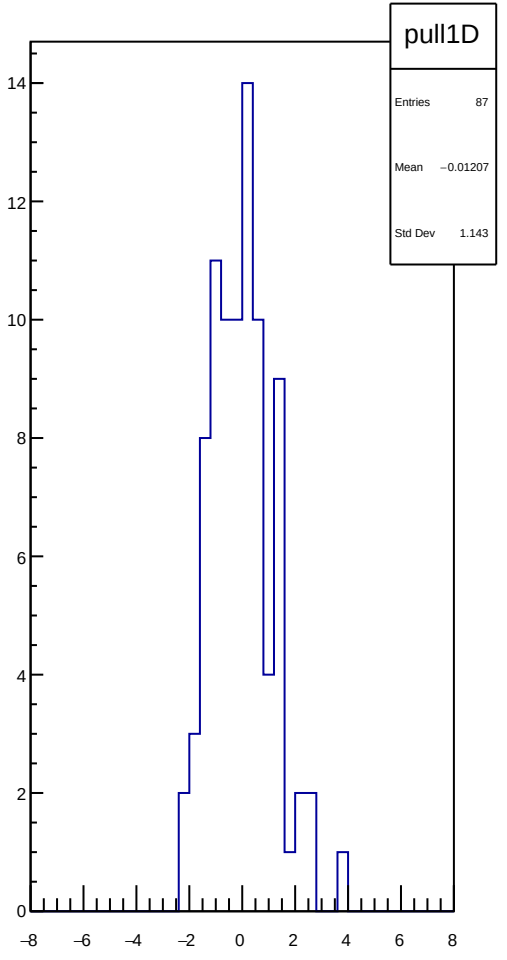

diff_cav4bY_rms vs run
×10^3
χ² / ndf 1.135e+04 / 86
p0 3.036e+05 ± 234.5
360
340
320
300
280
260
240
220

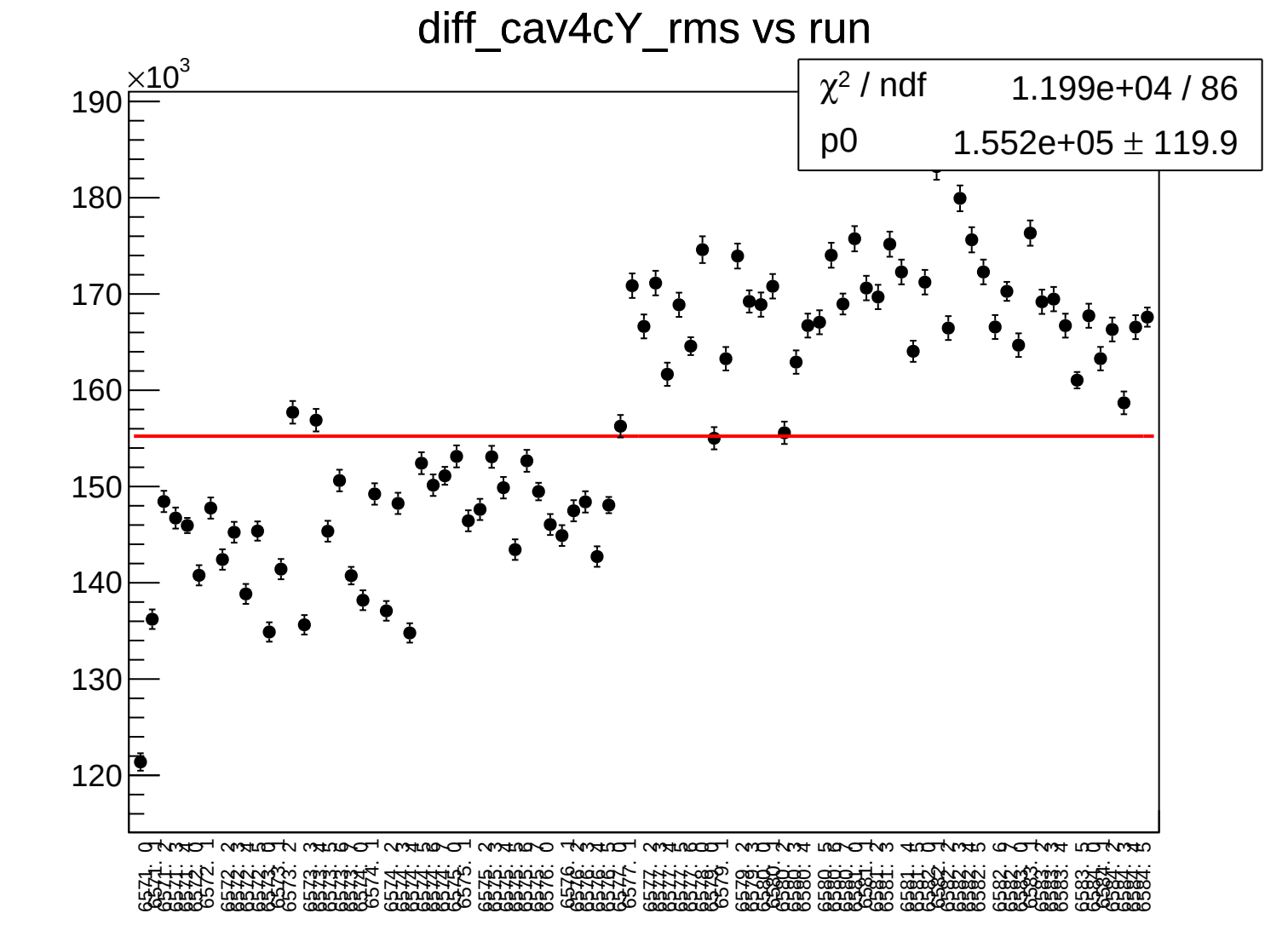

diff_cav4cX_mean vs run
χ² / ndf 110.5 / 86
p0 −431.7 ± 232.9
pull
Entries 87
Mean 487.1
Std Dev 0

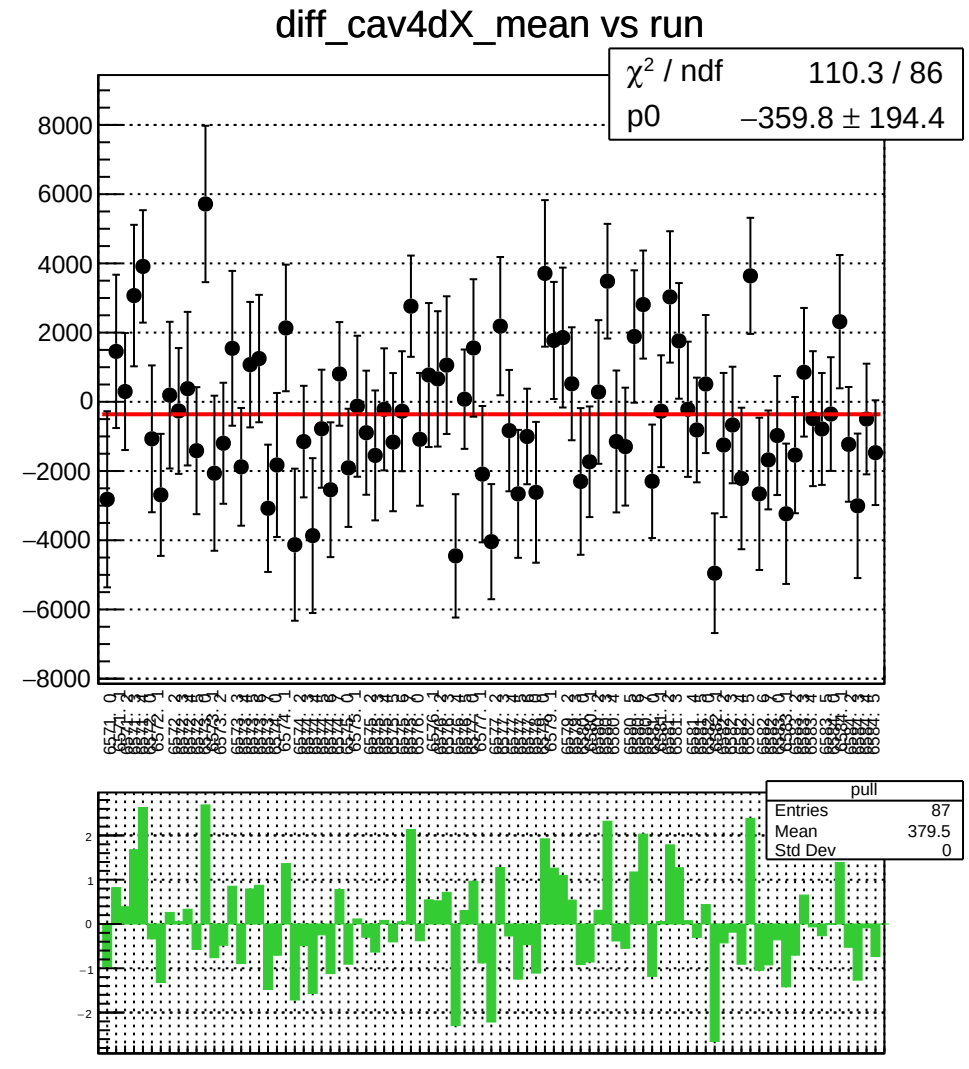

pull1D
Entries 87
Mean −0.00506
Std Dev 1.127

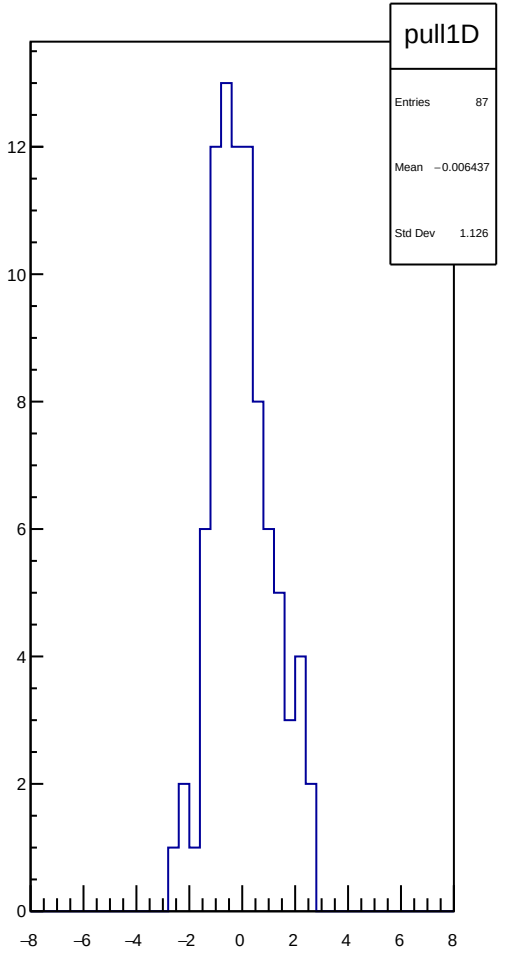

diff_cav4cX_rms vs run
×10^3
300
280
260
240
220
200
180
χ² / ndf 1.746e+04 / 86
p0 2.127e+05 ± 164.7

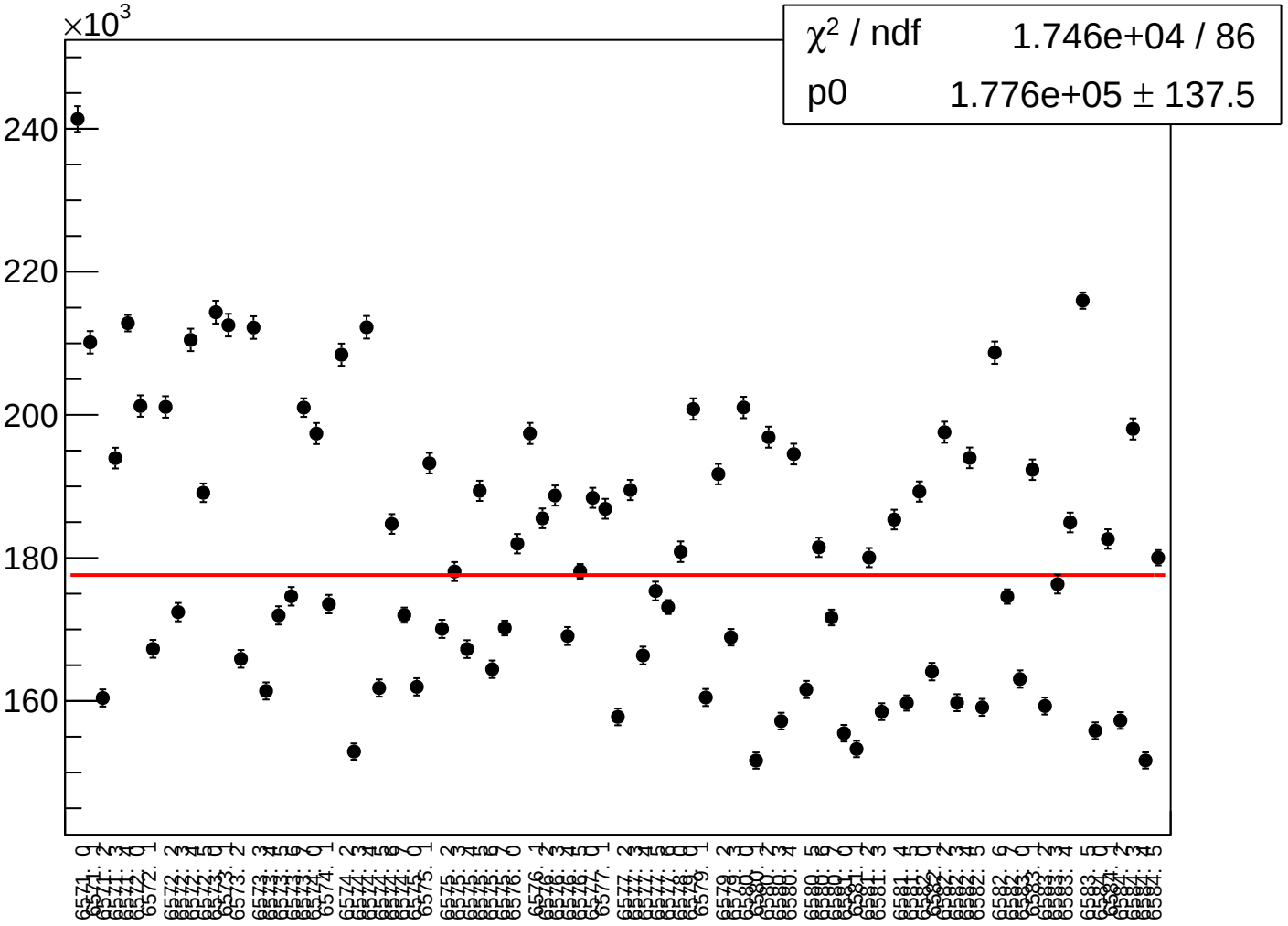

diff_cav4cY_mean vs run
χ² / ndf 113.8 / 86
p0 −159.8 ± 169.6
pull
Entries 87
Mean 266.6
Std Dev 0

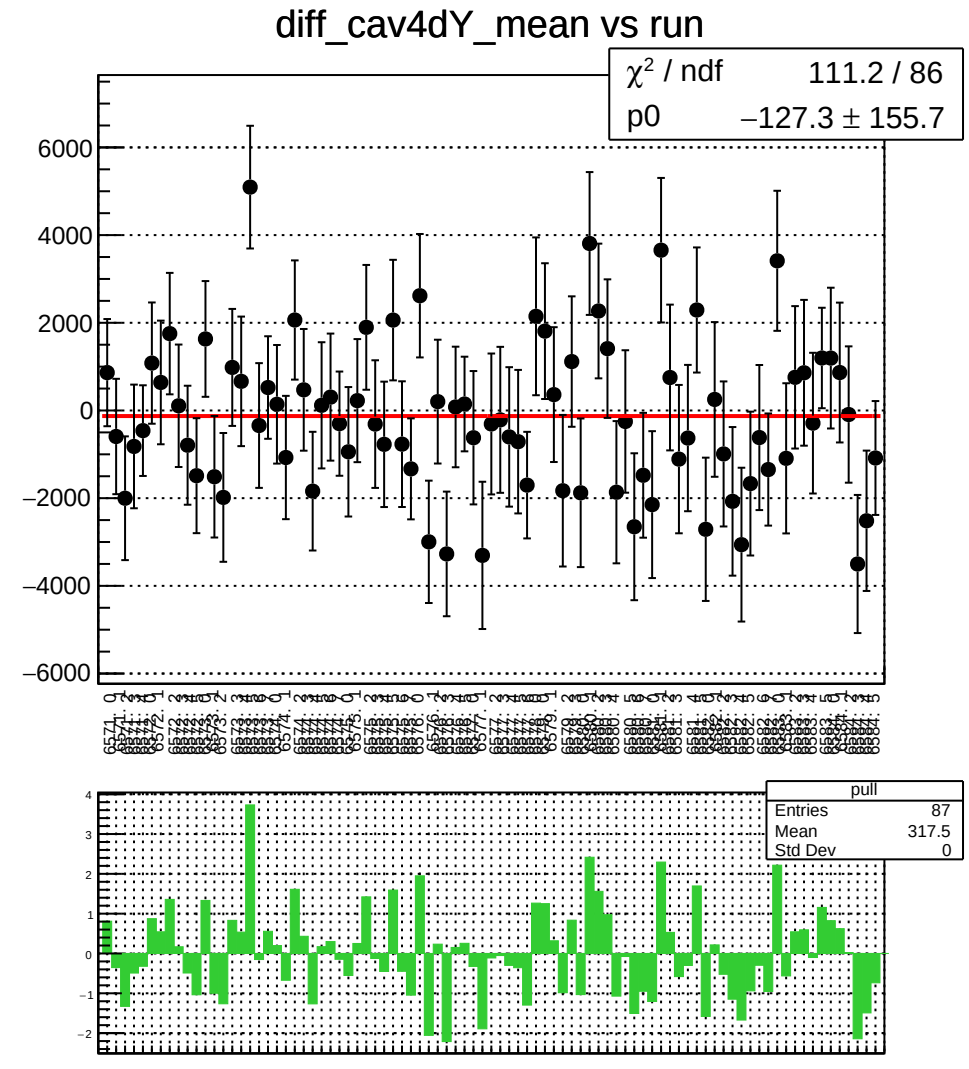

pull1D
Entries 87
Mean −0.01207
Std Dev 1.143

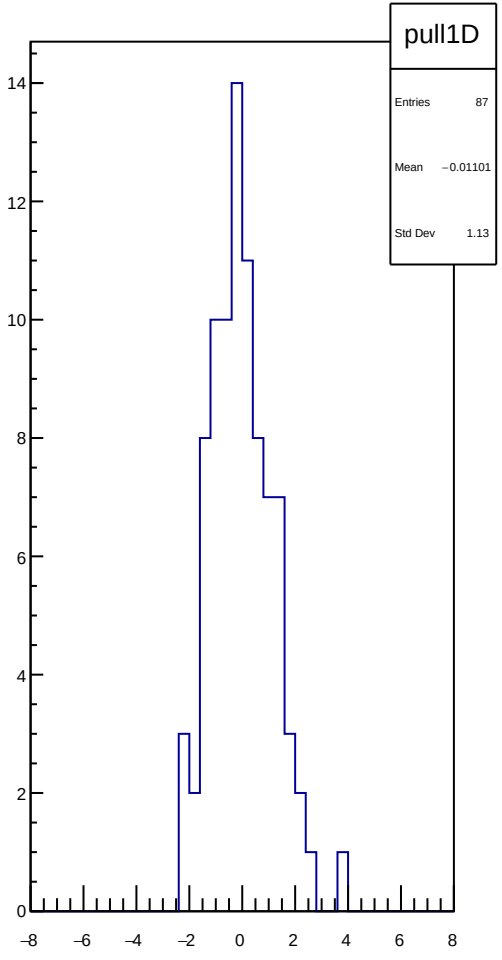

diff_cav4cY_rms vs run
×10^3
χ² / ndf 1.199e+04 / 86
p0 1.552e+05 ± 119.9
190
180
170
160
150
140
130
120

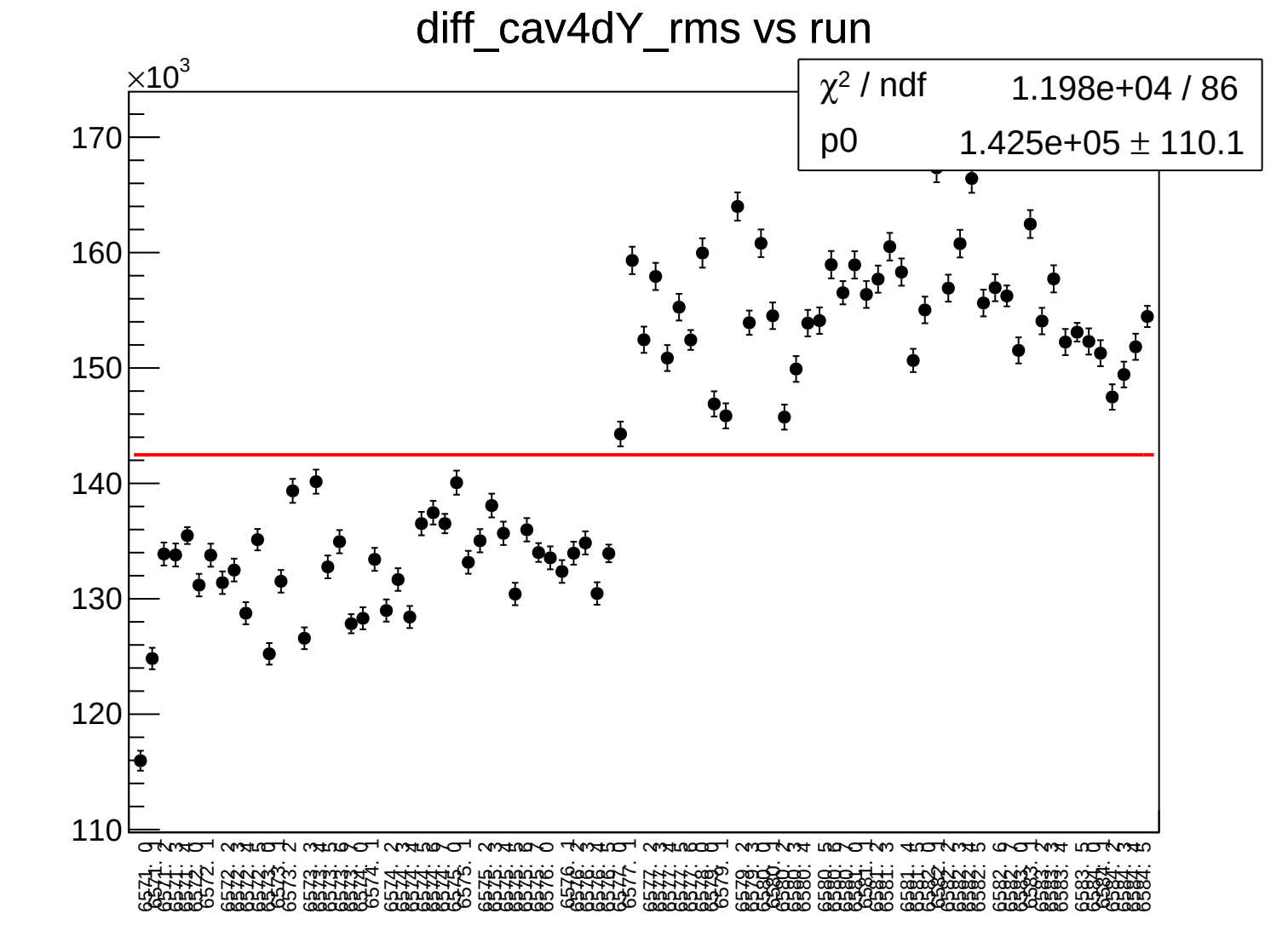

diff_cav4dX_mean vs run
χ² / ndf 110.3 / 86
p0 −359.8 ± 194.4
pull
Entries 87
Mean 379.5
Std Dev 0

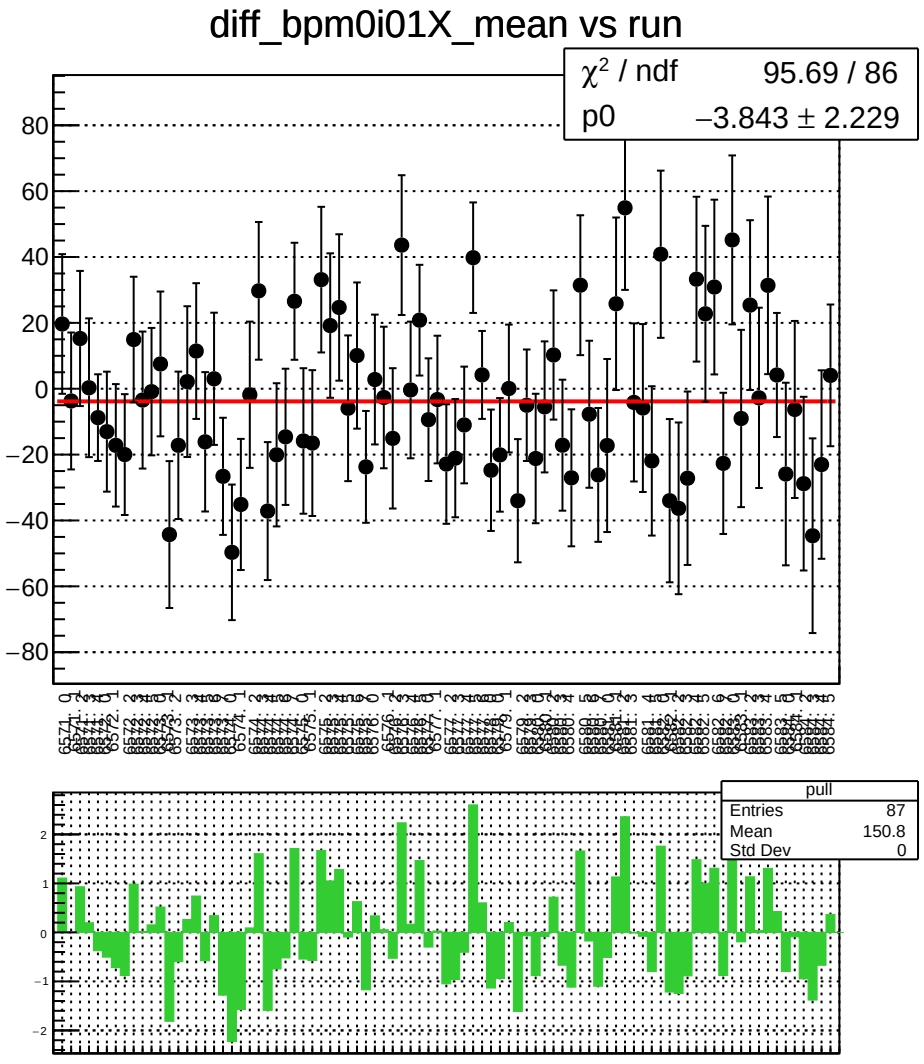

pull1D
Entries 87
Mean −0.006437
Std Dev 1.126

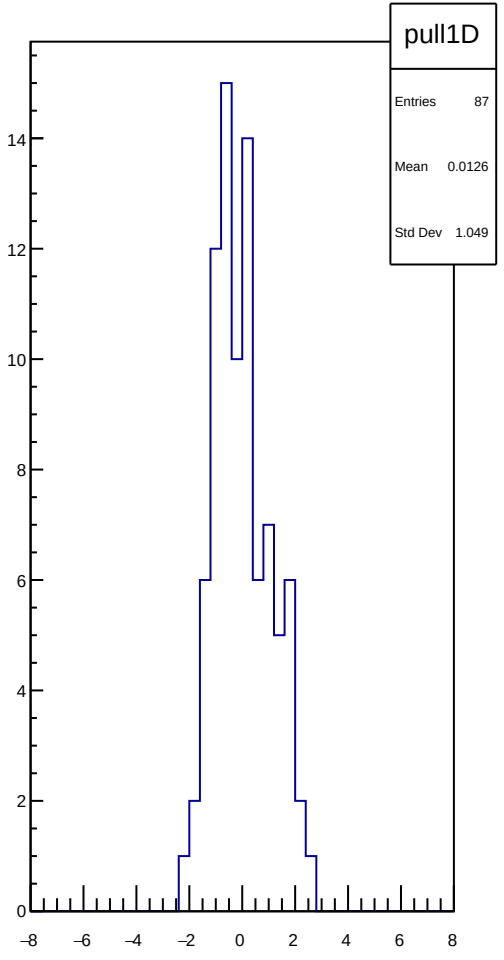

diff_cav4dX_rms vs run
×10^3
χ² / ndf 1.746e+04 / 86
p0 1.776e+05 ± 137.5
240
220
200
180
160

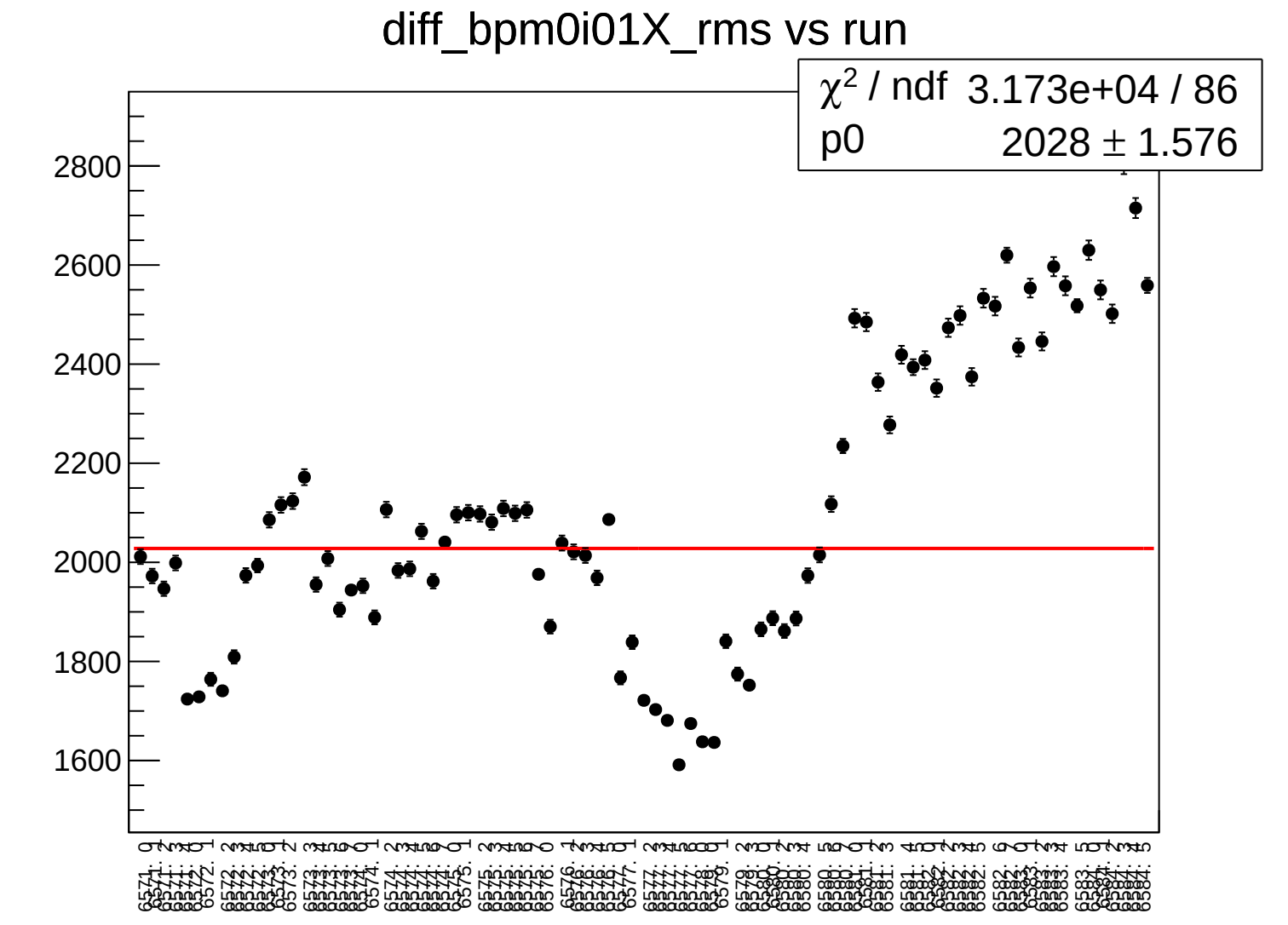

diff_cav4dY_mean vs run
χ² / ndf 111.2 / 86
p0 −127.3 ± 155.7
pull
Entries 87
Mean 317.5
Std Dev 0

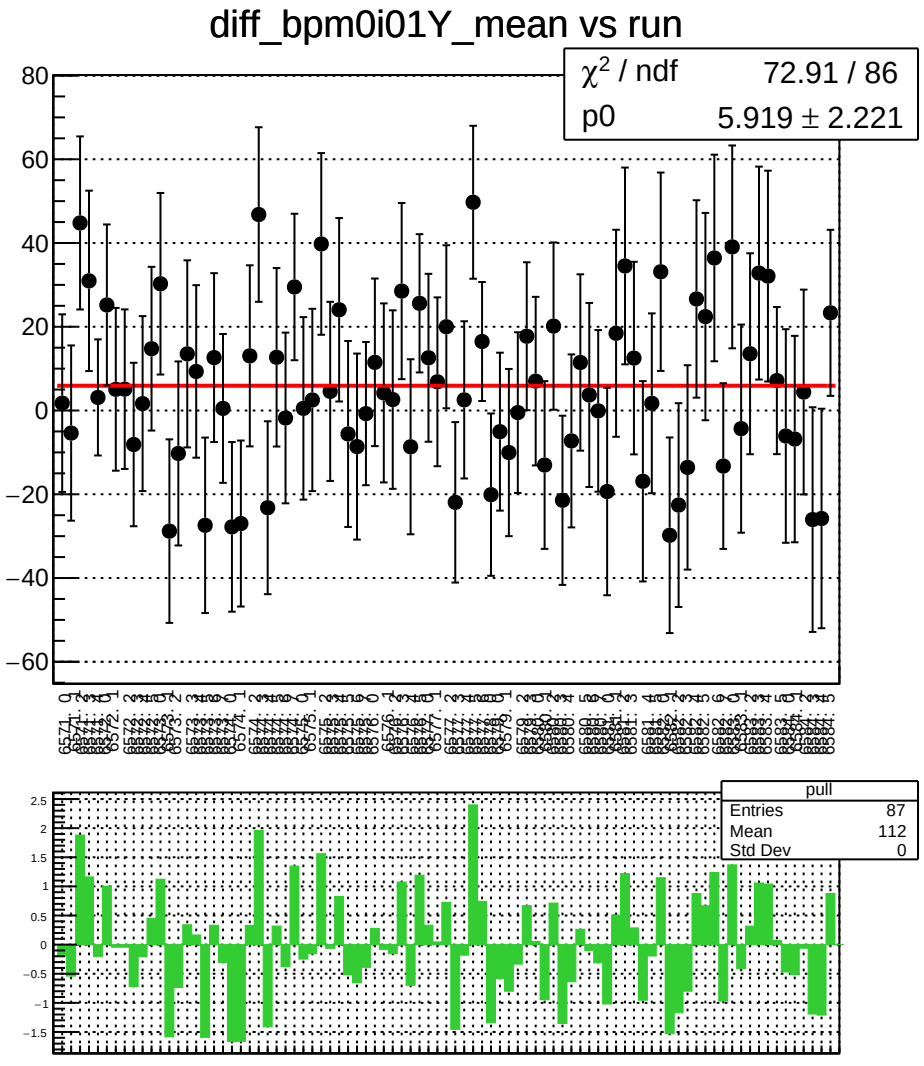

pull1D
Entries 87
Mean −0.01101
Std Dev 1.13

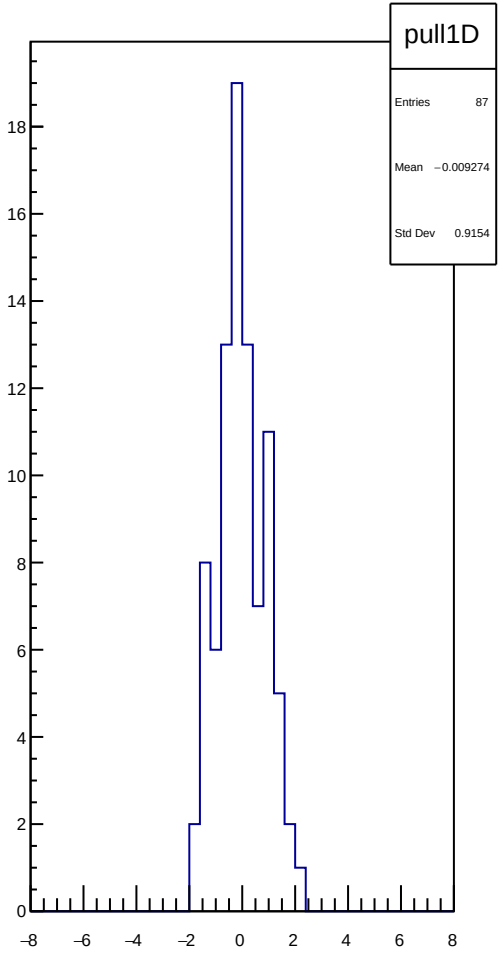

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1.198e+04 / 86
p0 1.425e+05 ± 110.1
170
160
150
140
130
120
110

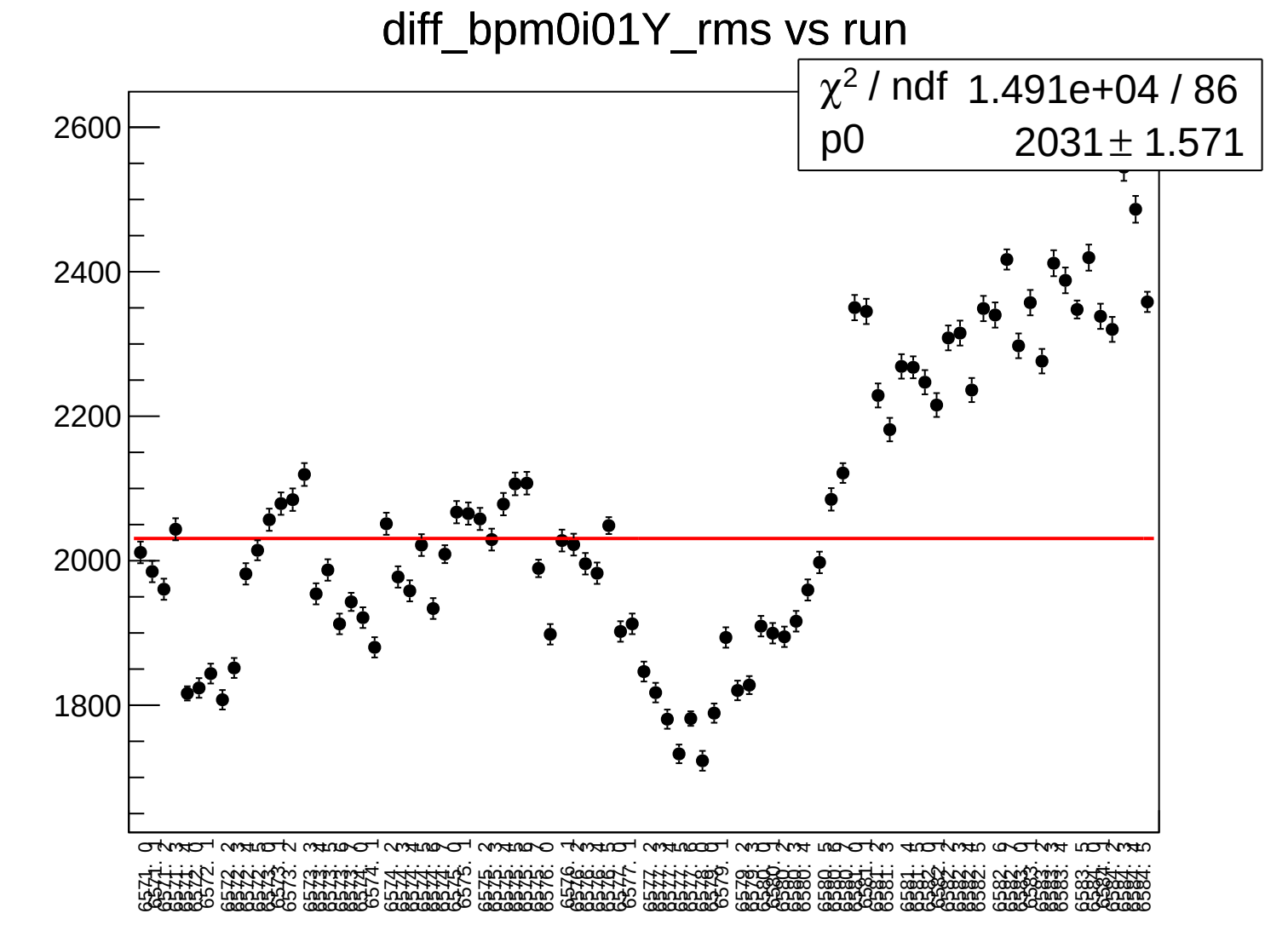

diff_bpm0i01X_mean vs run
χ² / ndf 95.69 / 86
p0 −3.843 ± 2.229
pull
Entries 87
Mean 150.8
Std Dev 0

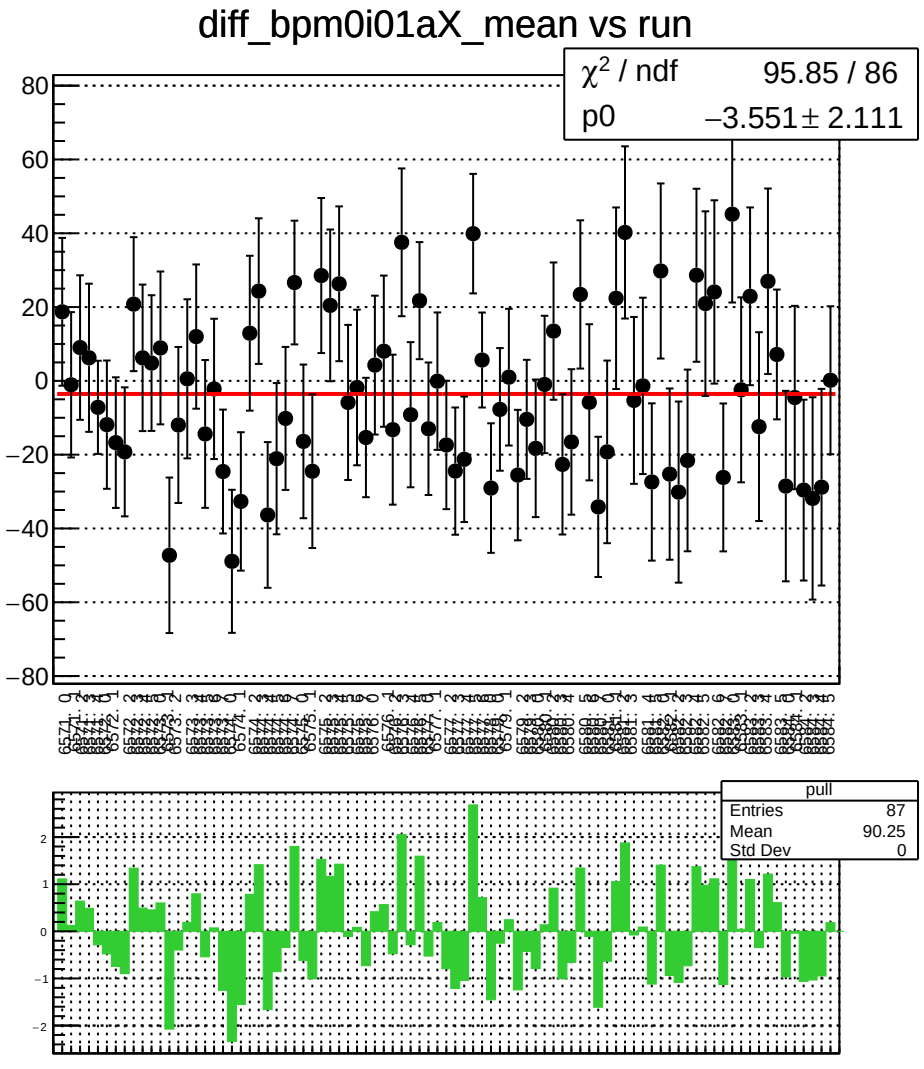

pull1D
Entries 87
Mean 0.0126
Std Dev 1.049

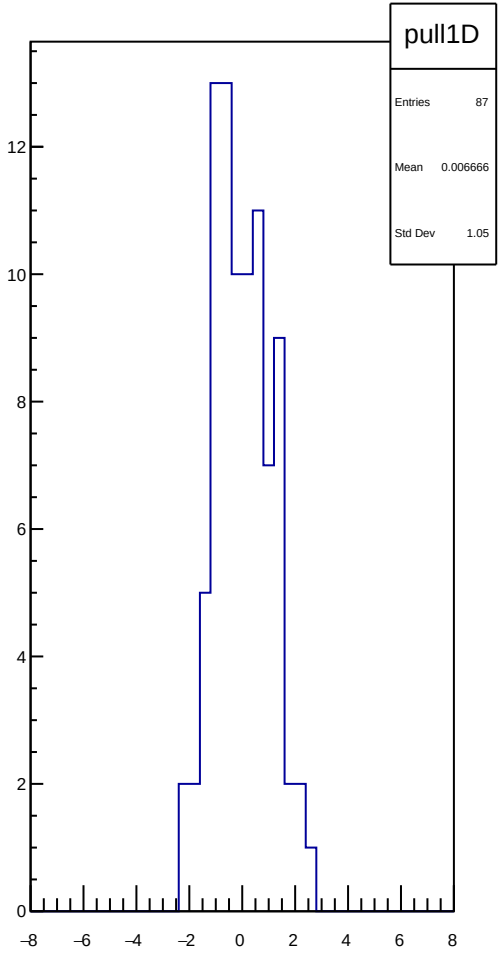

diff_bpm0i01X_rms vs run
χ² / ndf 3.173e+04 / 86
p0 2028 ± 1.576
2800
2600
2400
2200
2000
1800
1600

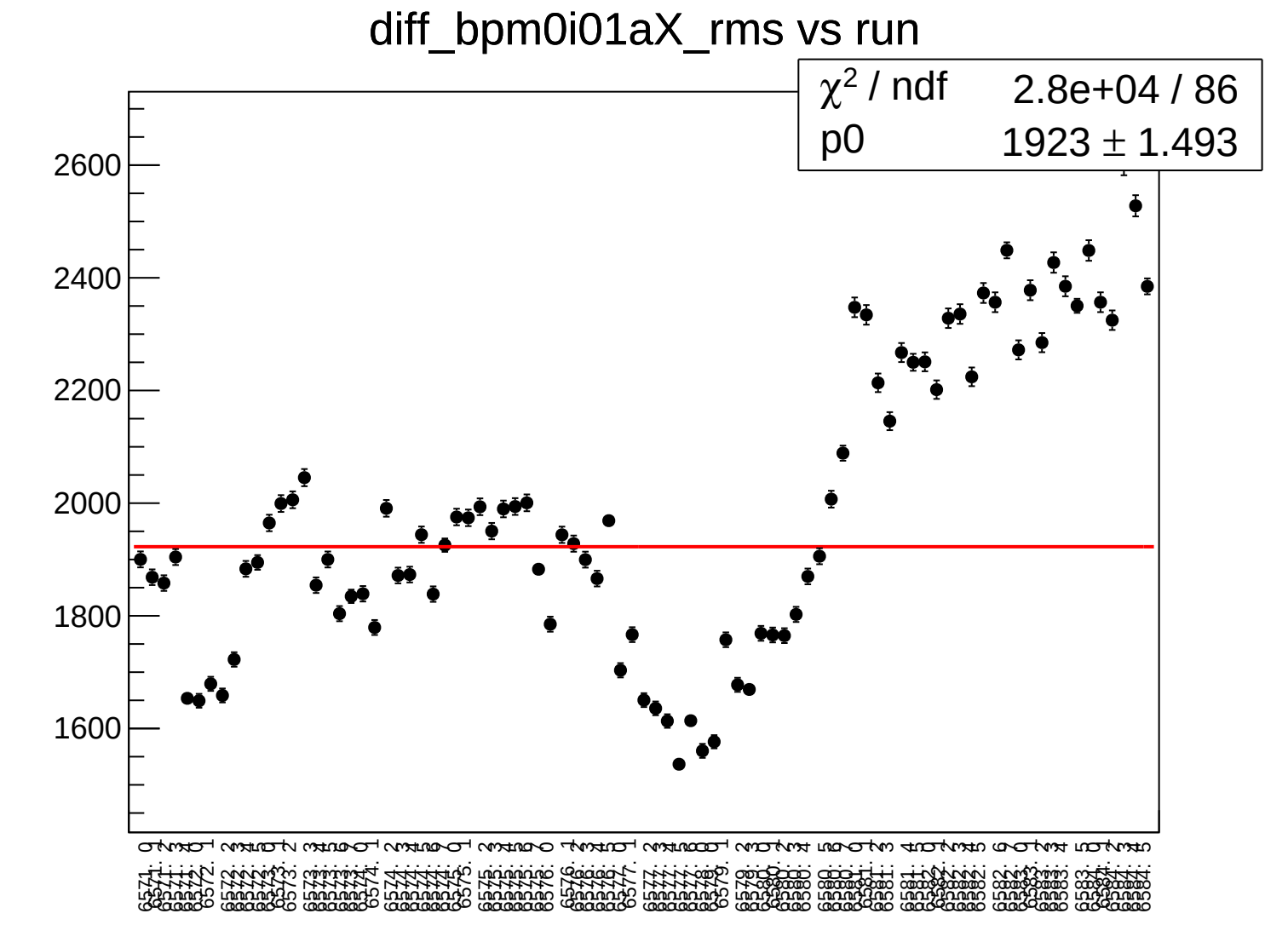

diff_bpm0i01Y_mean vs run
χ² / ndf 72.91 / 86
p0 5.919 ± 2.221
pull
Entries 87
Mean 112
Std Dev 0

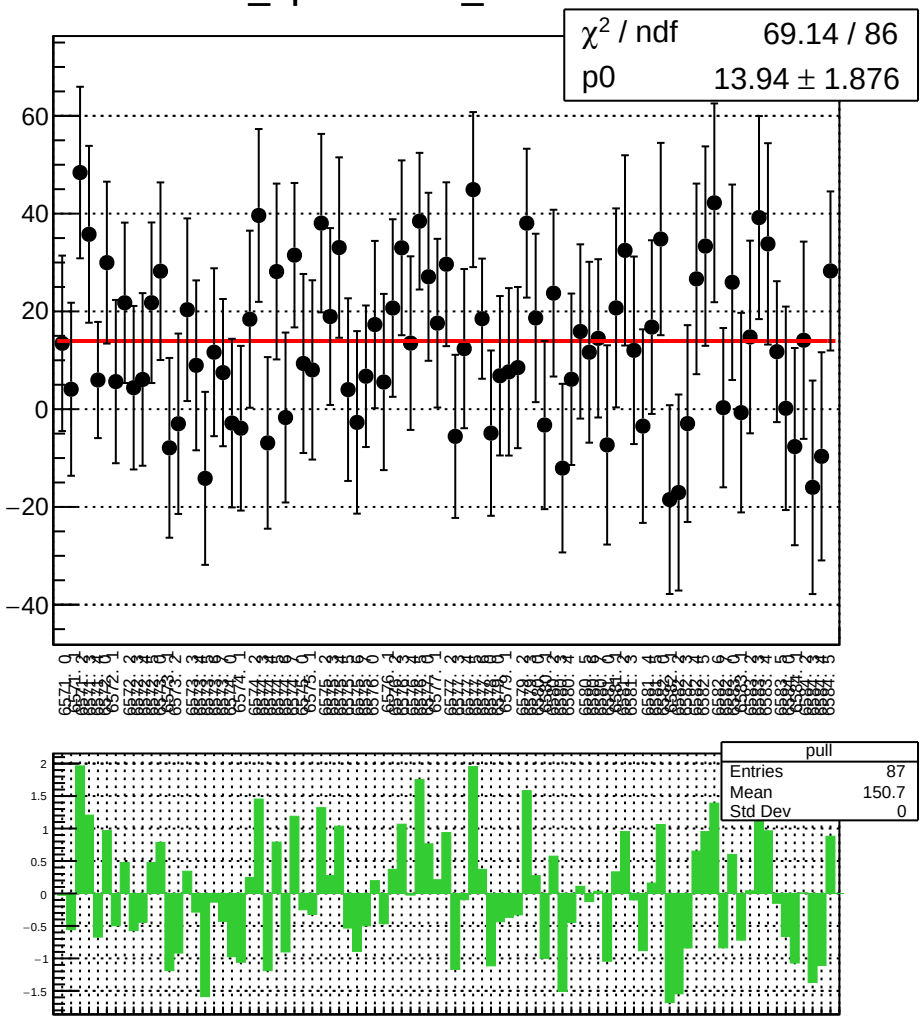

pull1D
Entries 87
Mean −0.009274
Std Dev 0.9154

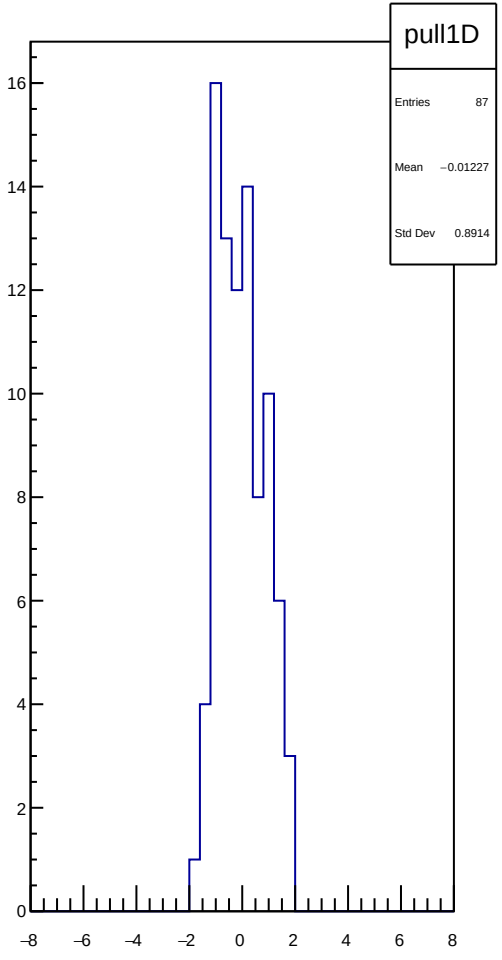

diff_bpm0i01Y_rms vs run
χ² / ndf 1.491e+04 / 86
p0 2031 ± 1.571
2600
2400
2200
2000
1800

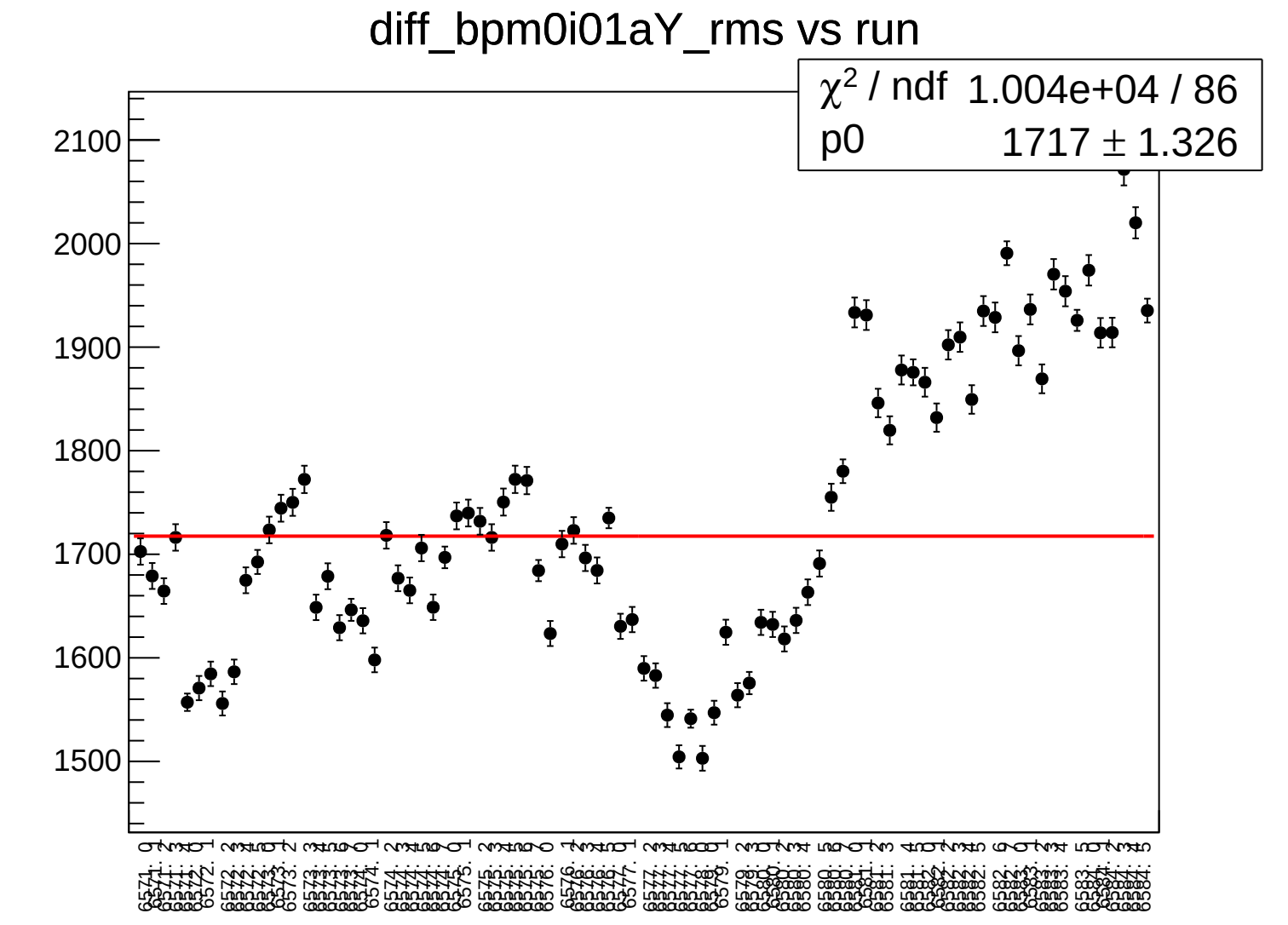

diff_bpm0i01aX_mean vs run
χ² / ndf 95.85 / 86
p0 −3.551 ± 2.111
pull
Entries 87
Mean 90.25
Std Dev 0

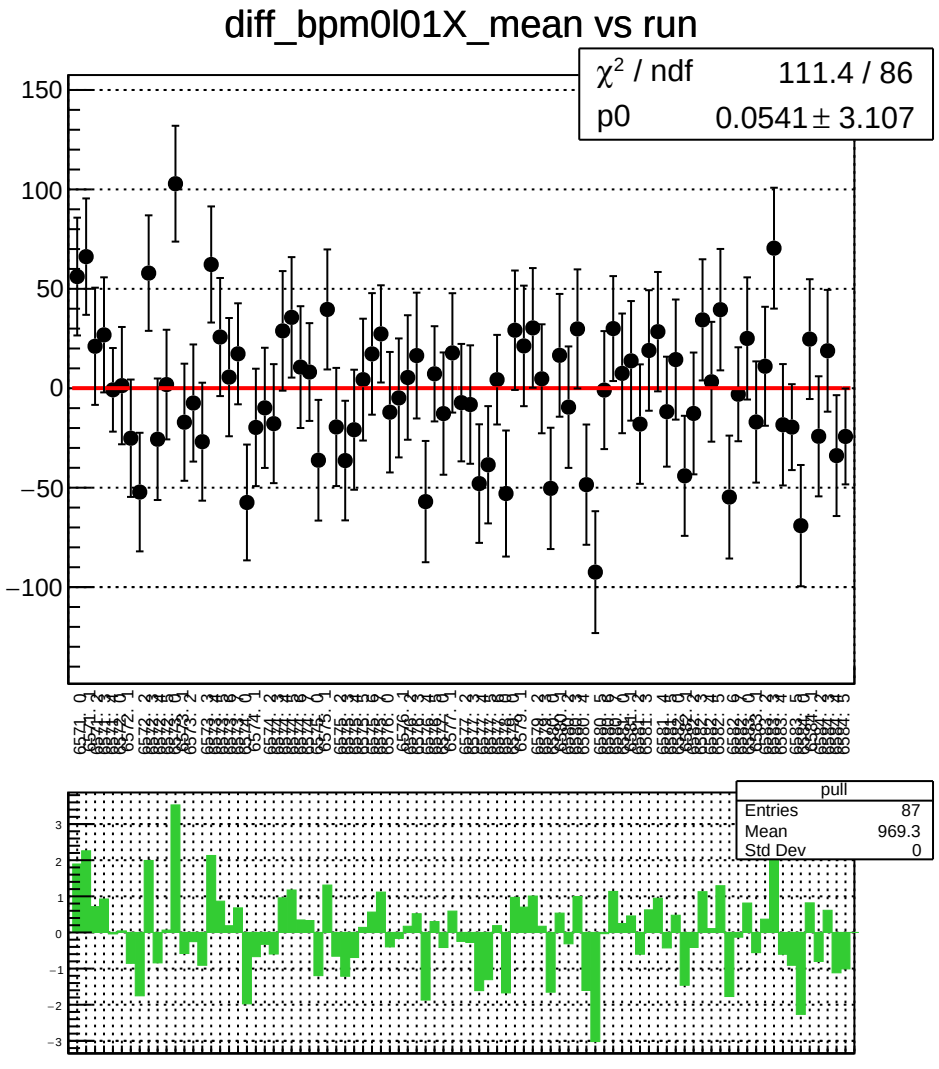

pull1D
Entries 87
Mean 0.006666
Std Dev 1.05

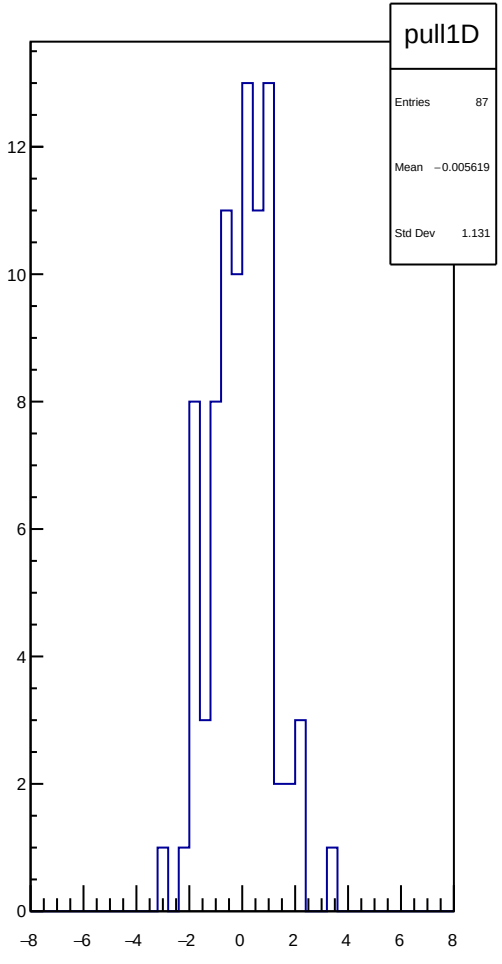

diff_bpm0i01aX_rms vs run
χ² / ndf 2.8e+04 / 86
p0 1923 ± 1.493
2600
2400
2200
2000
1800
1600

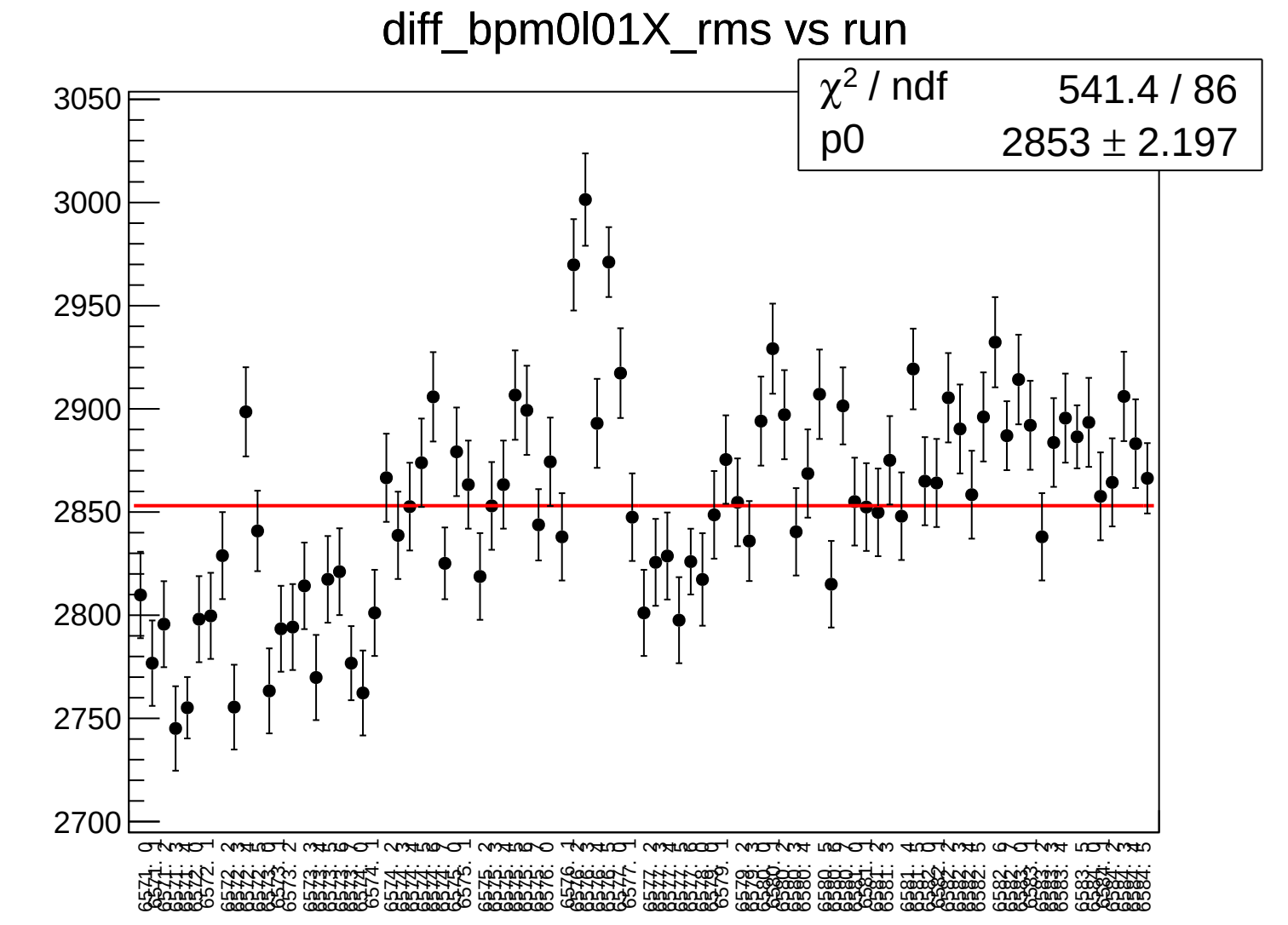

diff_bpm0i01aY_mean vs run
χ² / ndf 69.14 / 86
p0 13.94 ± 1.876
pull
Entries 87
Mean 150.7
Std Dev 0

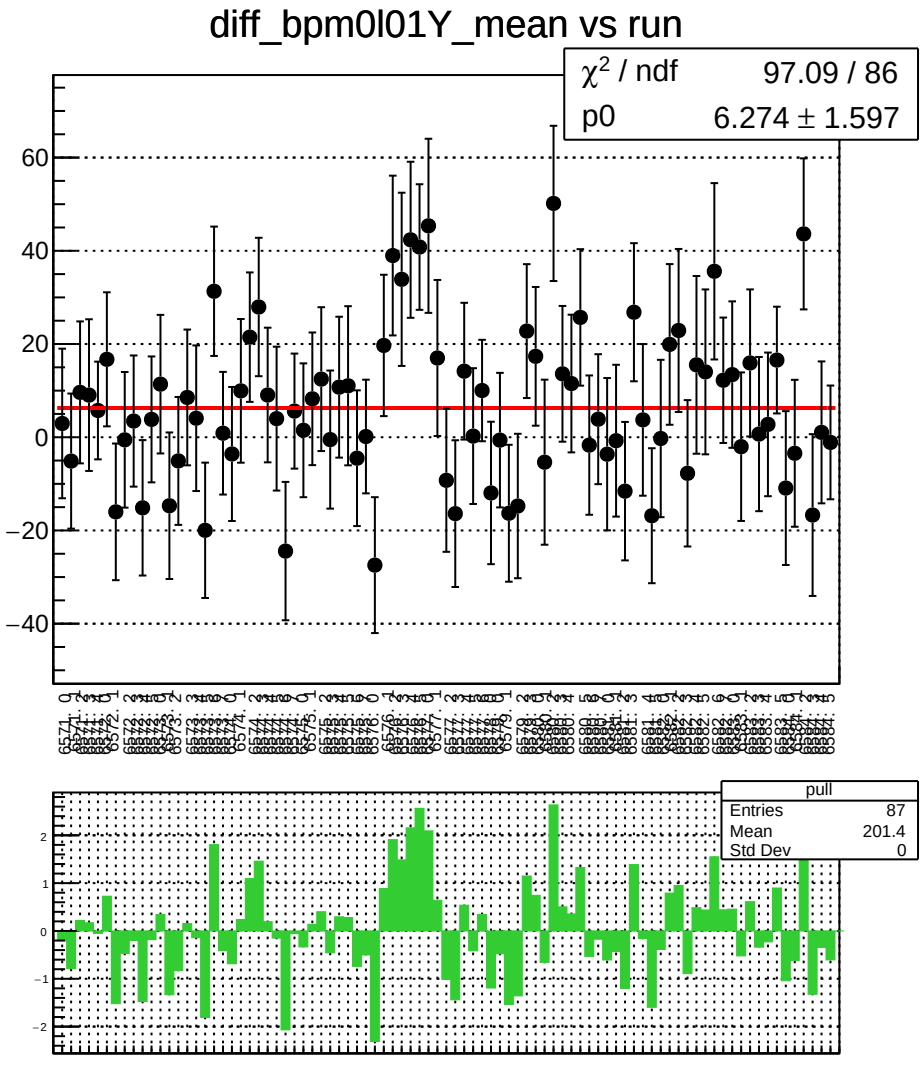

pull1D
Entries 87
Mean −0.01227
Std Dev 0.8914

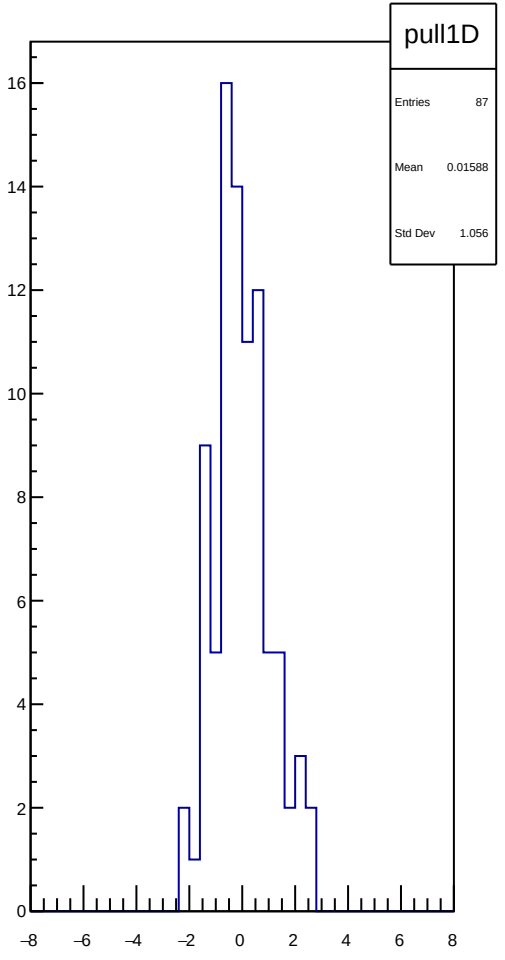

diff_bpm0i01aY_rms vs run
χ² / ndf 1.004e+04 / 86
p0 1717 ± 1.326
2100
2000
1900
1800
1700
1600
1500

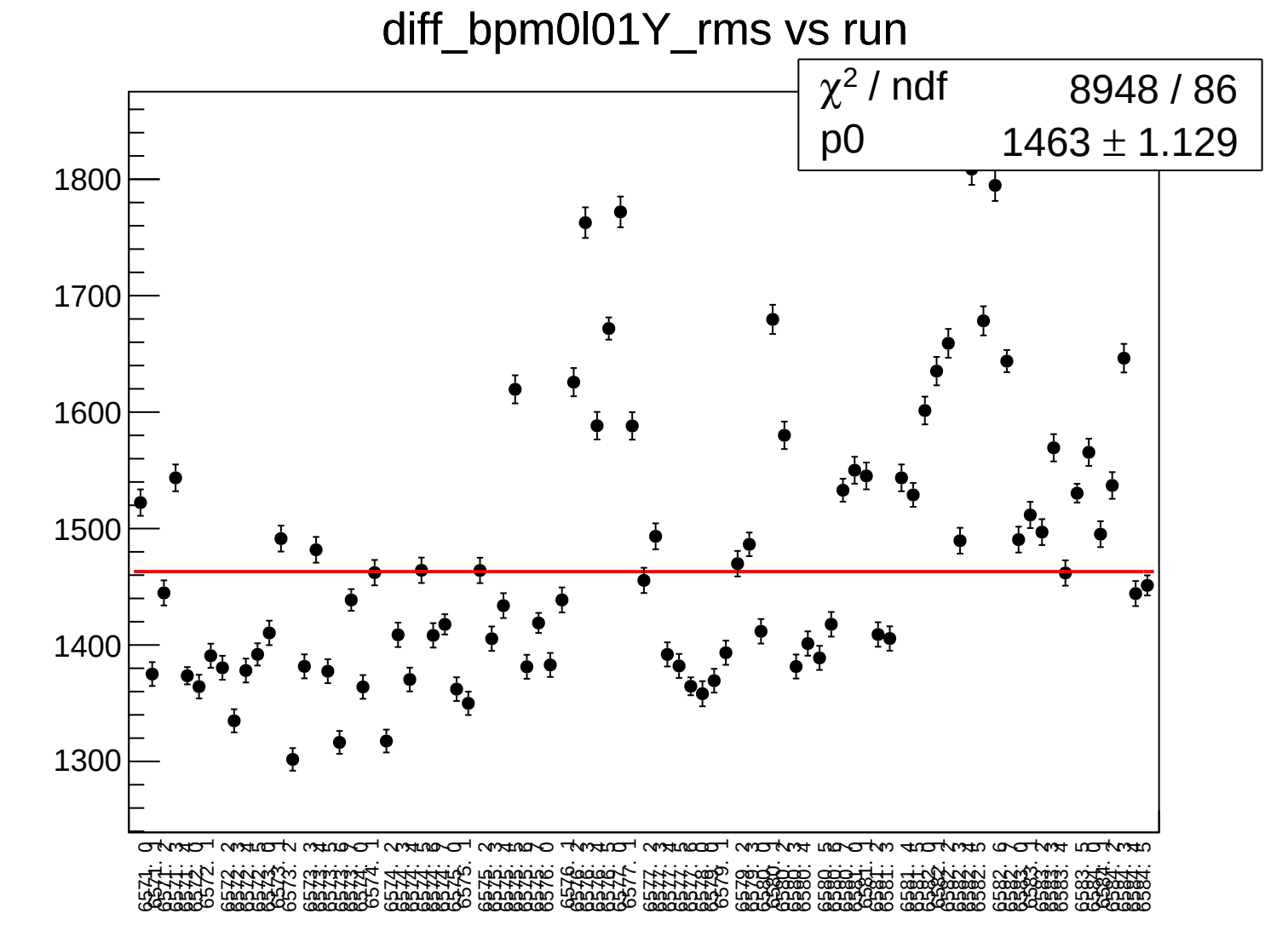

diff_bpm0l01X_mean vs run
χ² / ndf 111.4 / 86
p0 0.0541 ± 3.107
150
100
50
0
−50
−100
pull
Entries 87
Mean 969.3
Std Dev 0
3
2
1
0
−1
−2
−3

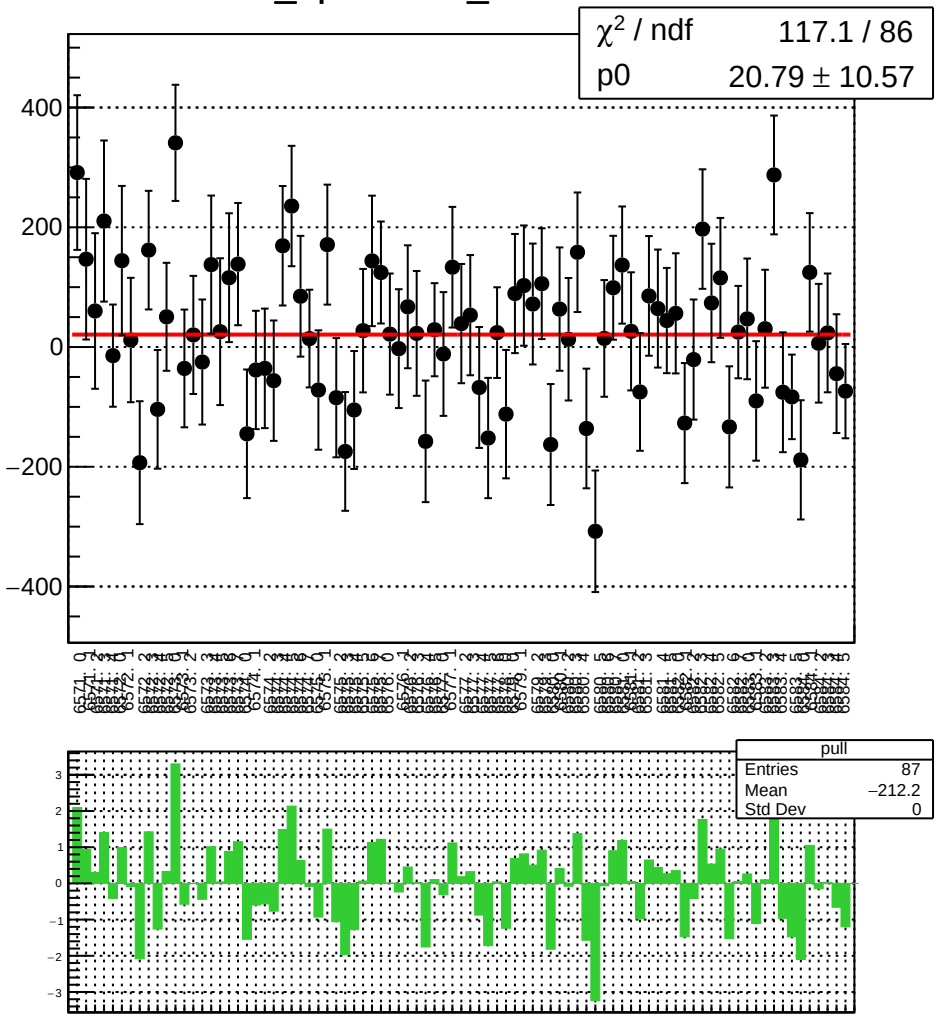

pull1D
Entries 87
Mean −0.005619
Std Dev 1.131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

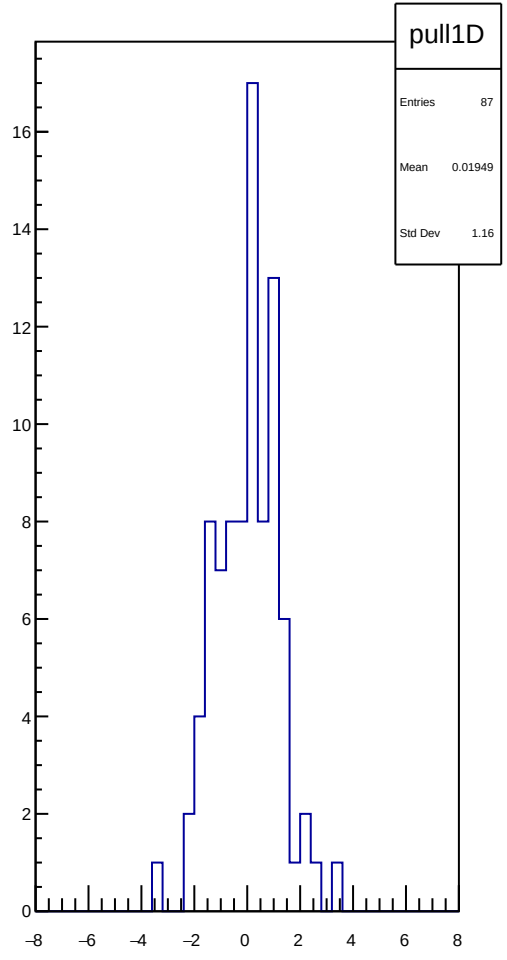

diff_bpm0l01X_rms vs run
χ² / ndf 541.4 / 86
p0 2853 ± 2.197
3050
3000
2950
2900
2850
2800
2750
2700

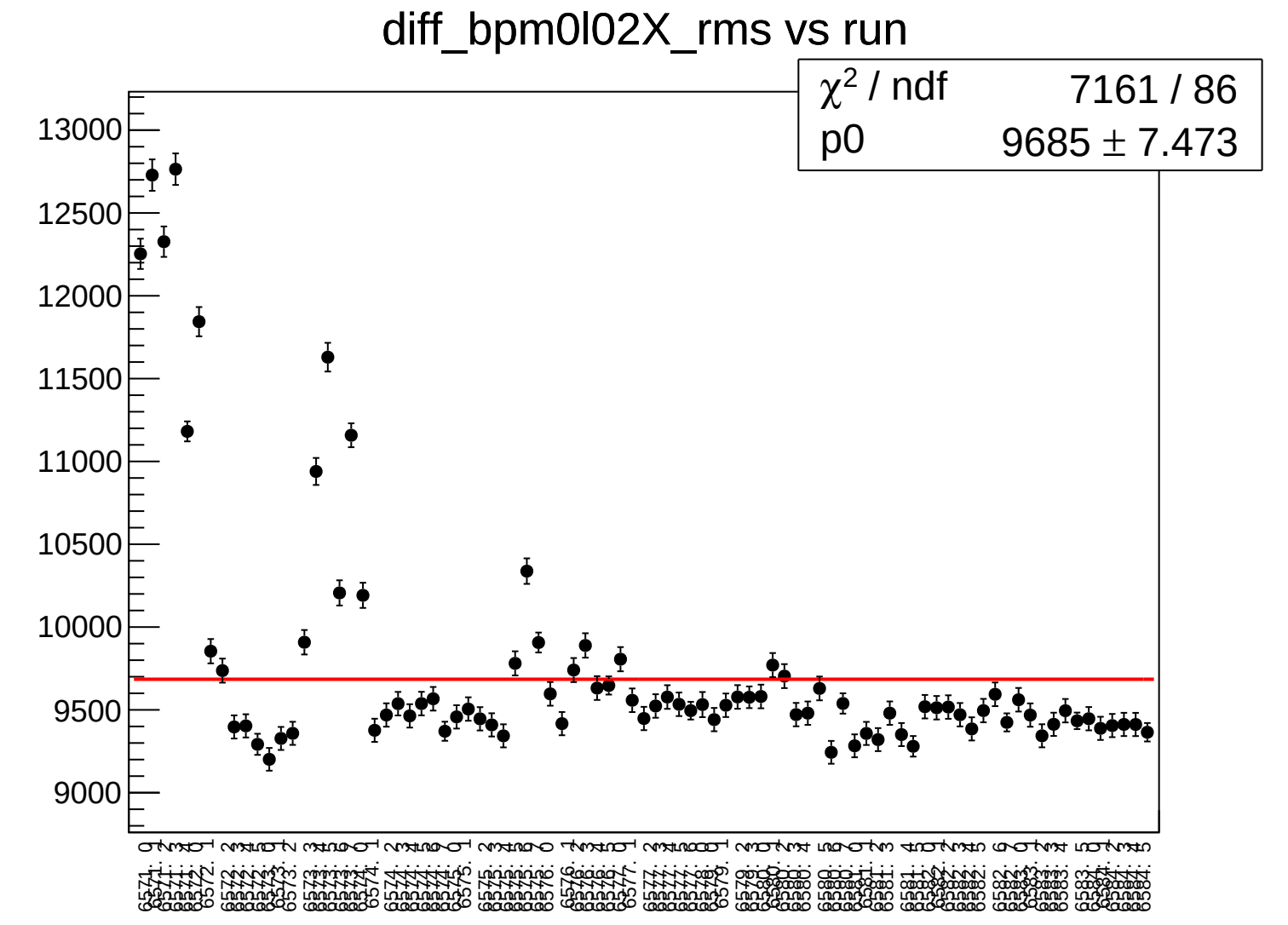

diff_bpm0l01Y_mean vs run
χ² / ndf 97.09 / 86
p0 6.274 ± 1.597
pull
Entries 87
Mean 201.4
Std Dev 0

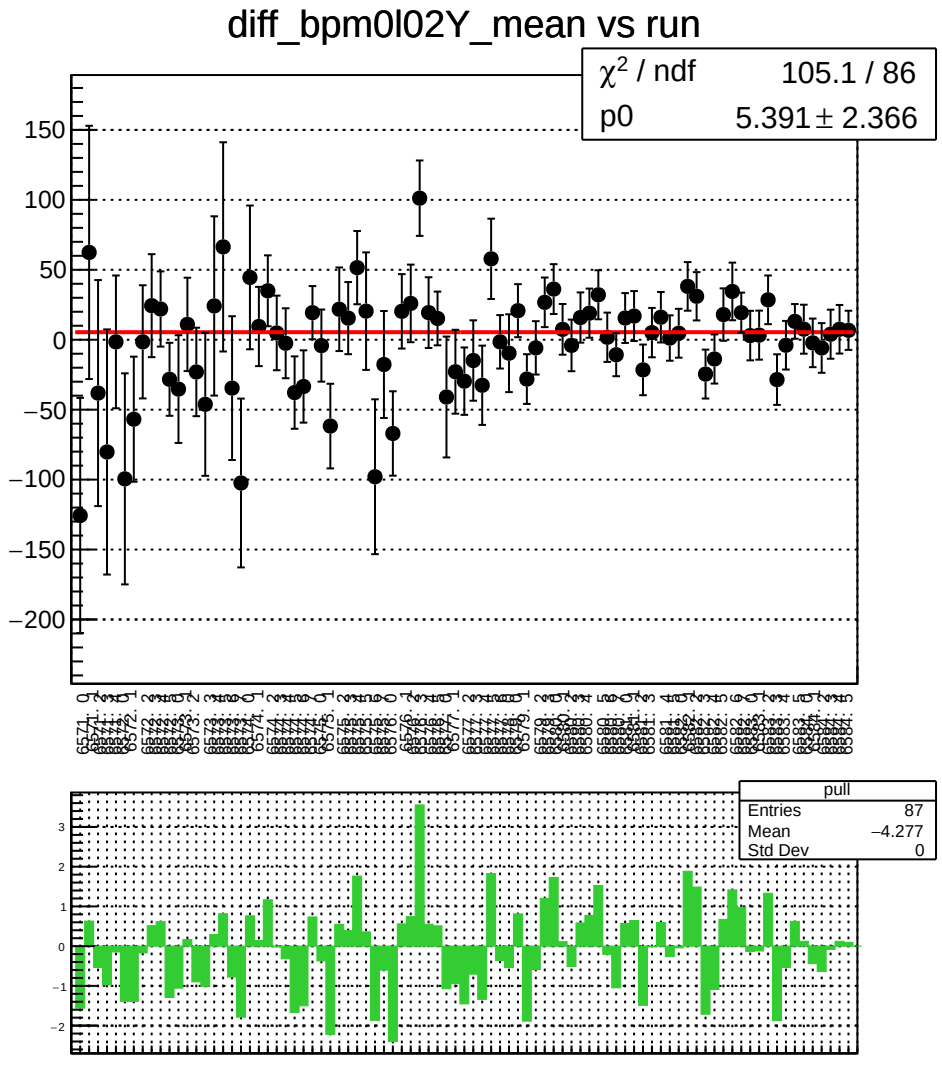

pull1D
Entries 87
Mean 0.01588
Std Dev 1.056

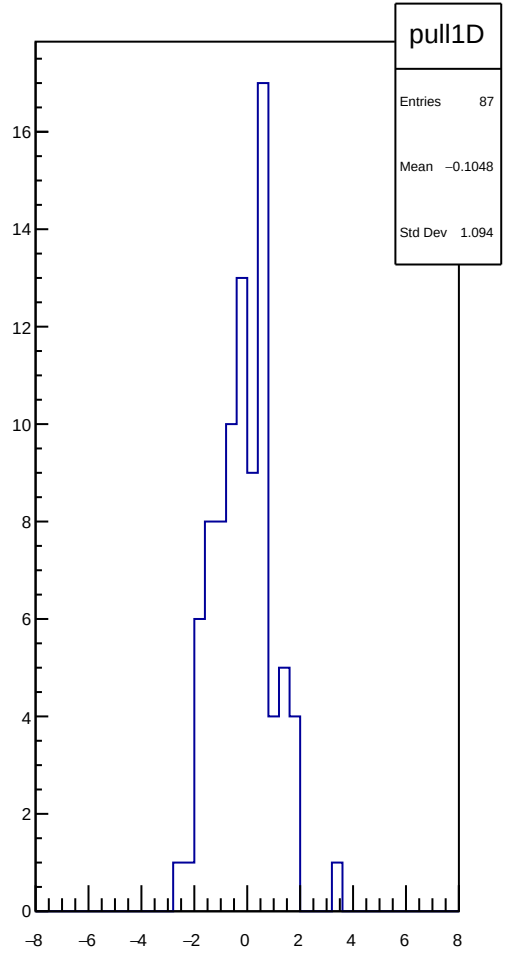

diff_bpm0l01Y_rms vs run
χ² / ndf 8948 / 86
p0 1463 ± 1.129
1800
1700
1600
1500
1400
1300

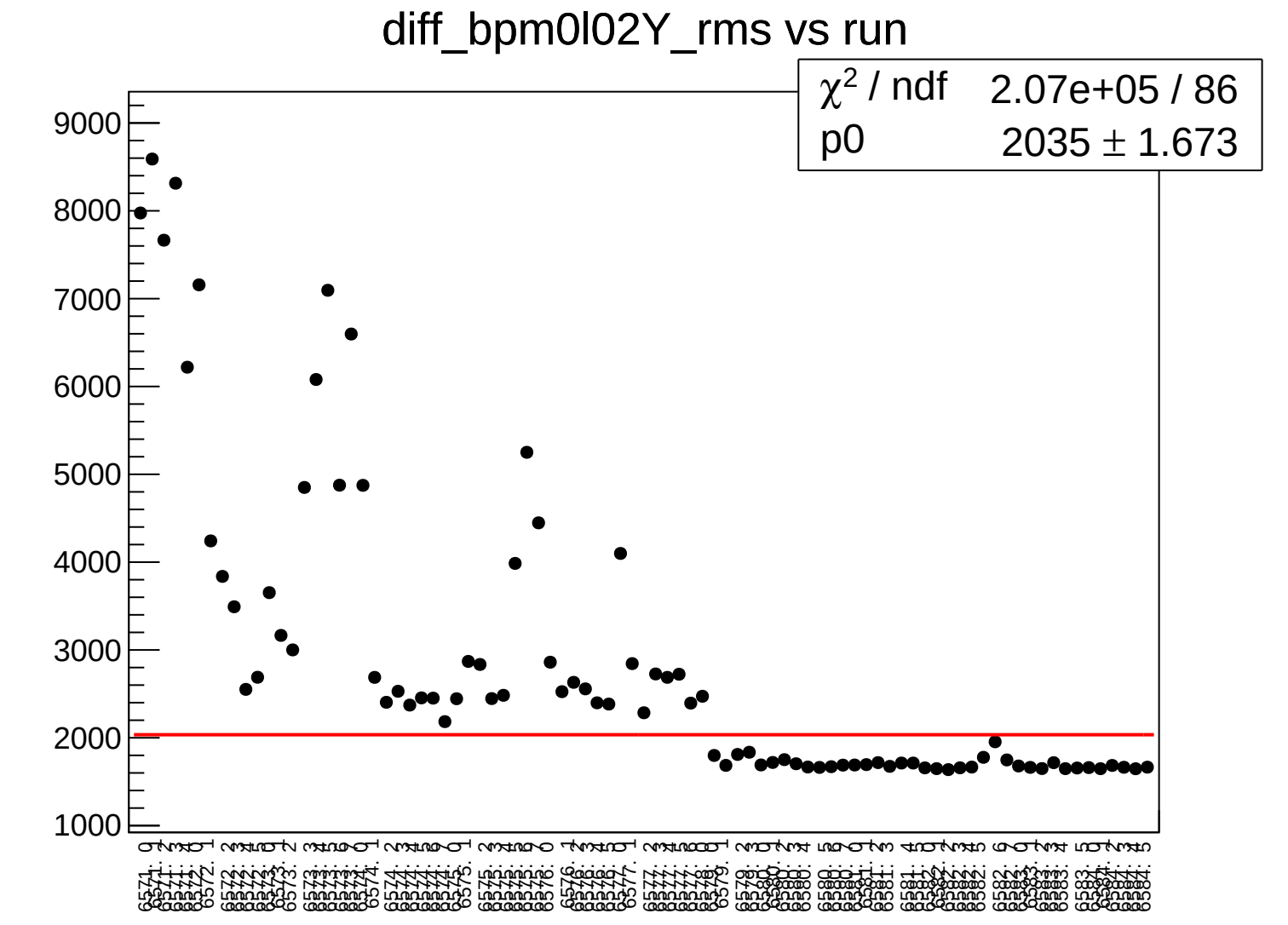

diff_bpm0l02X_mean vs run
χ^2 / ndf 117.1 / 86
p0 20.79 ± 10.57
400
200
0
−200
−400
pull
Entries 87
Mean −212.2
Std Dev 0
3
2
1
0
−1
−2
−3

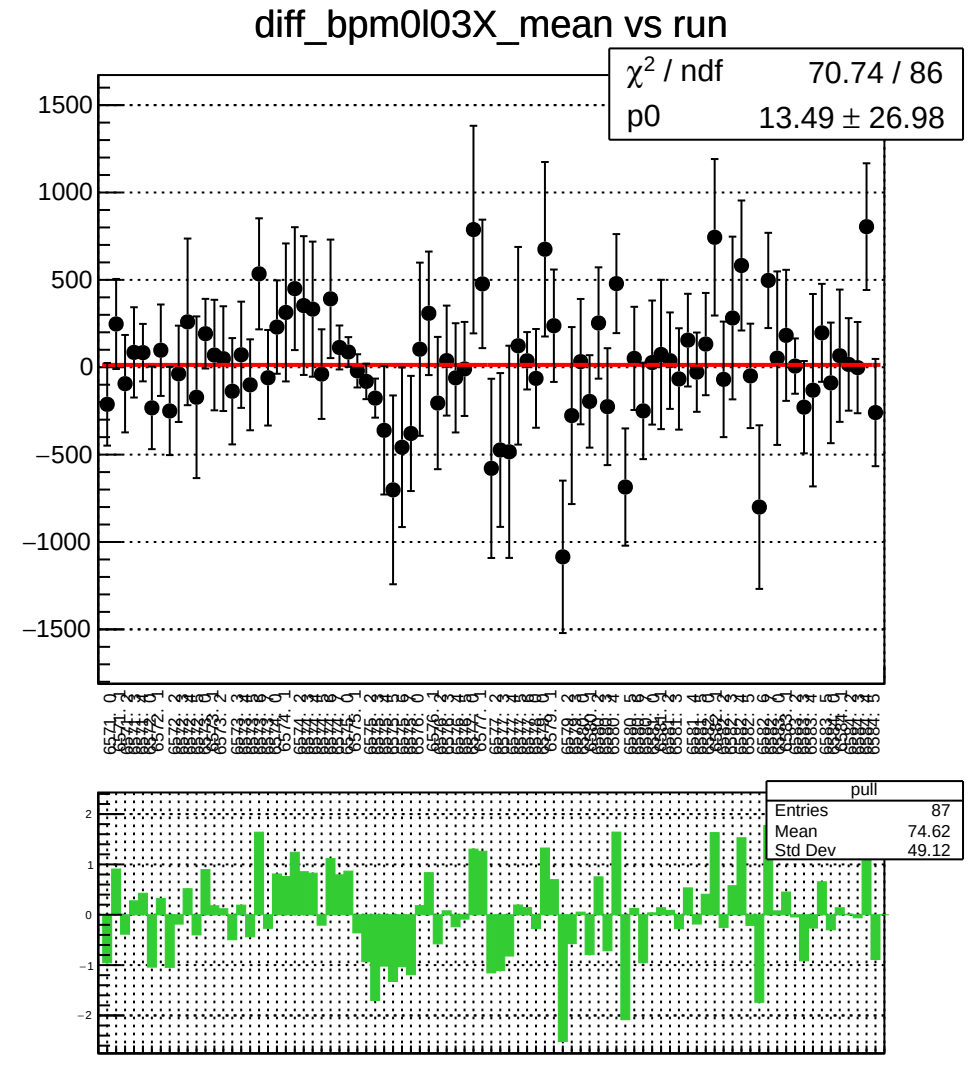

pull1D
Entries 87
Mean 0.01949
Std Dev 1.16
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

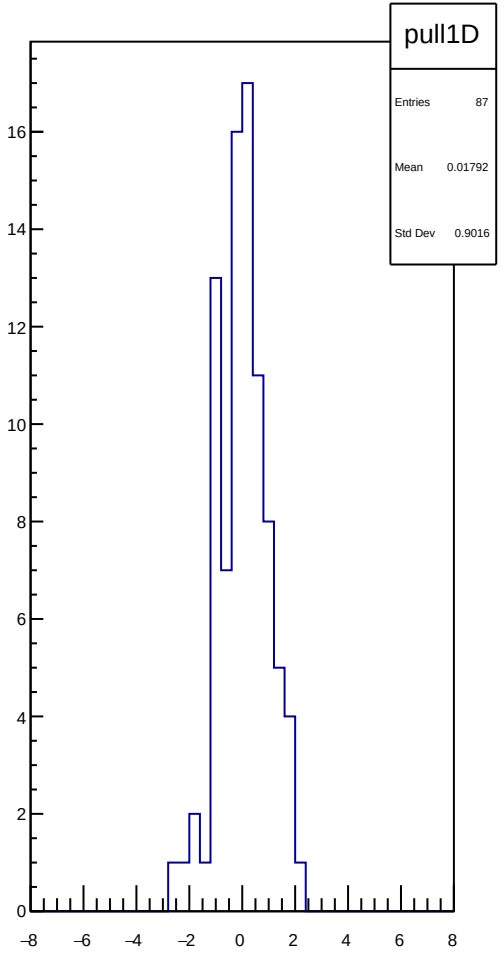

diff_bpm0l02X_rms vs run
χ² / ndf 7161 / 86
p0 9685 ± 7.473
13000
12500
12000
11500
11000
10500
10000
9500
9000

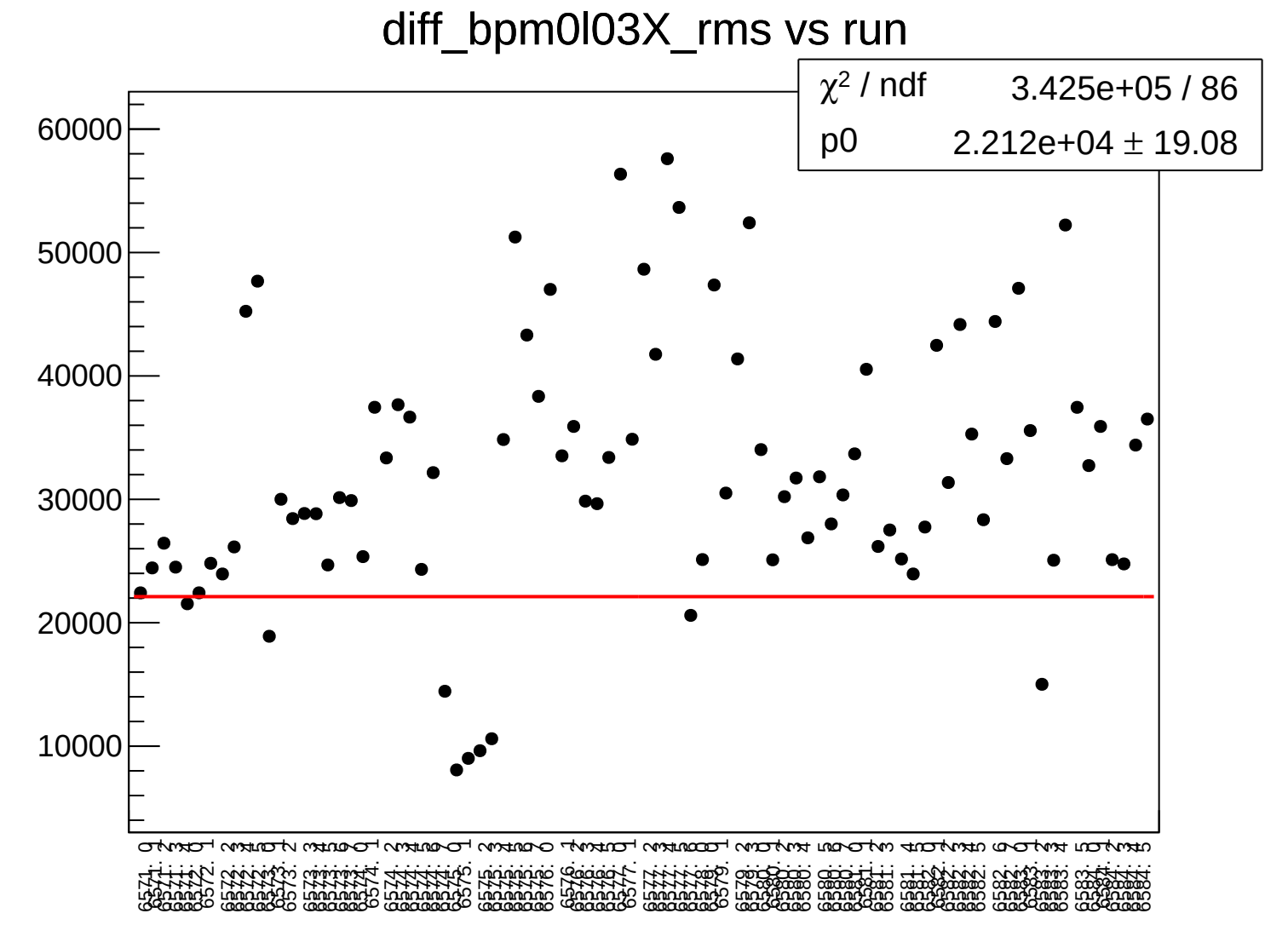

diff_bpm0l02Y_mean vs run
χ² / ndf 105.1 / 86
p0 5.391 ± 2.366
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −4.277
Std Dev 0
3
2
1
0
−1
−2

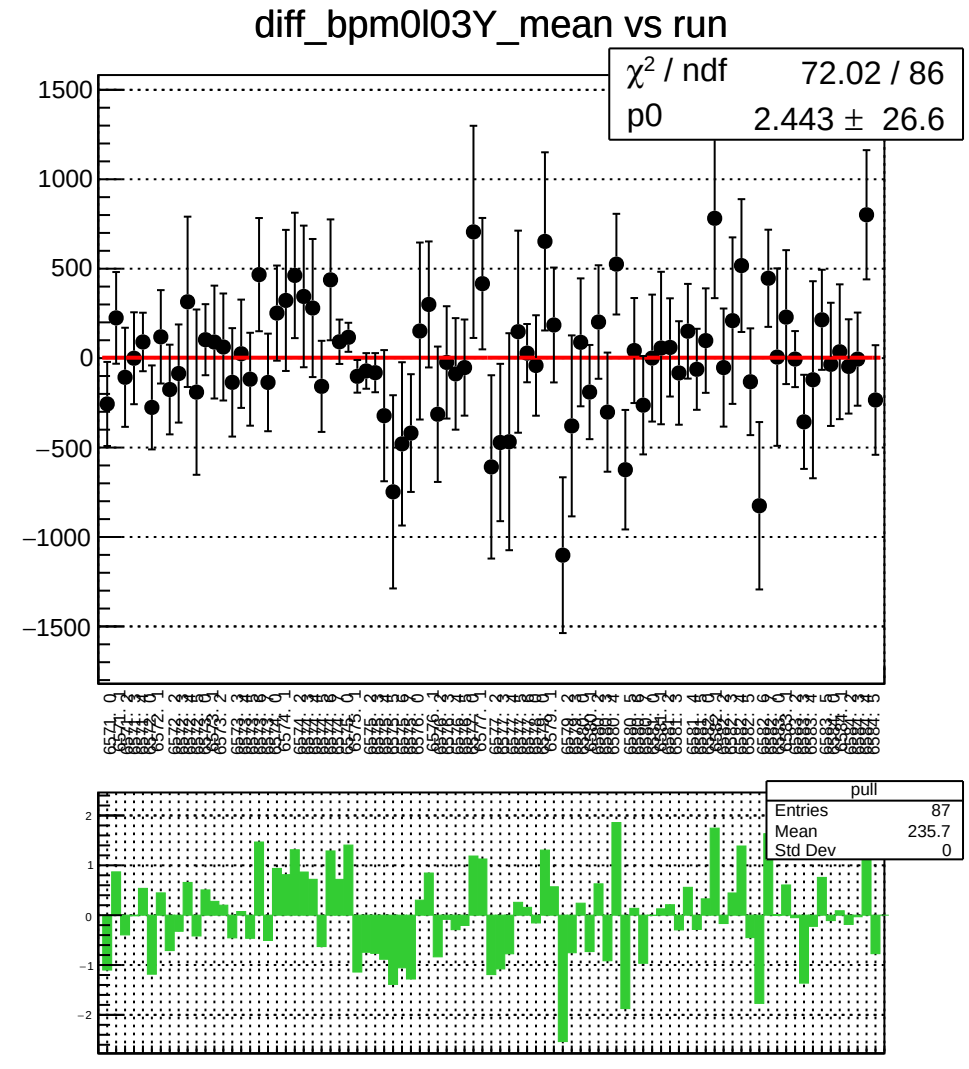

pull1D
Entries 87
Mean −0.1048
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

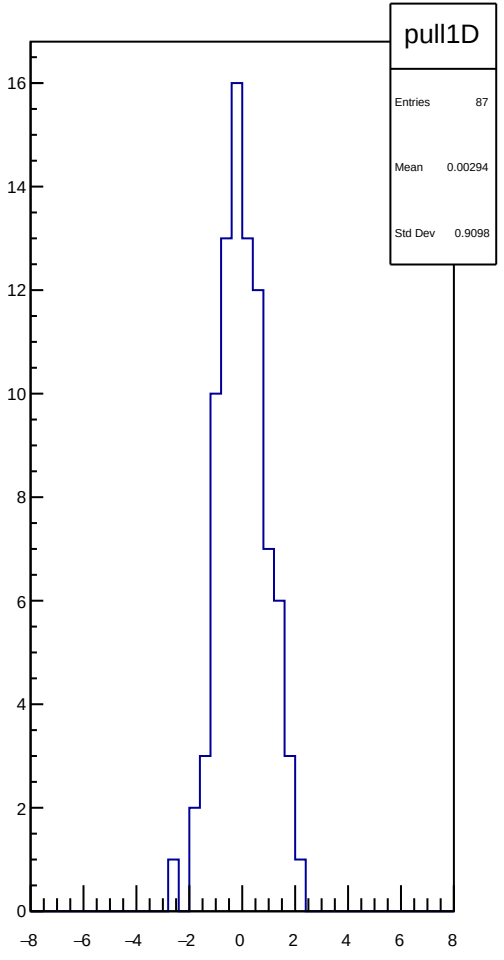

diff_bpm0l02Y_rms vs run
χ² / ndf 2.07e+05 / 86
p0 2035 ± 1.673
9000
8000
7000
6000
5000
4000
3000
2000
1000

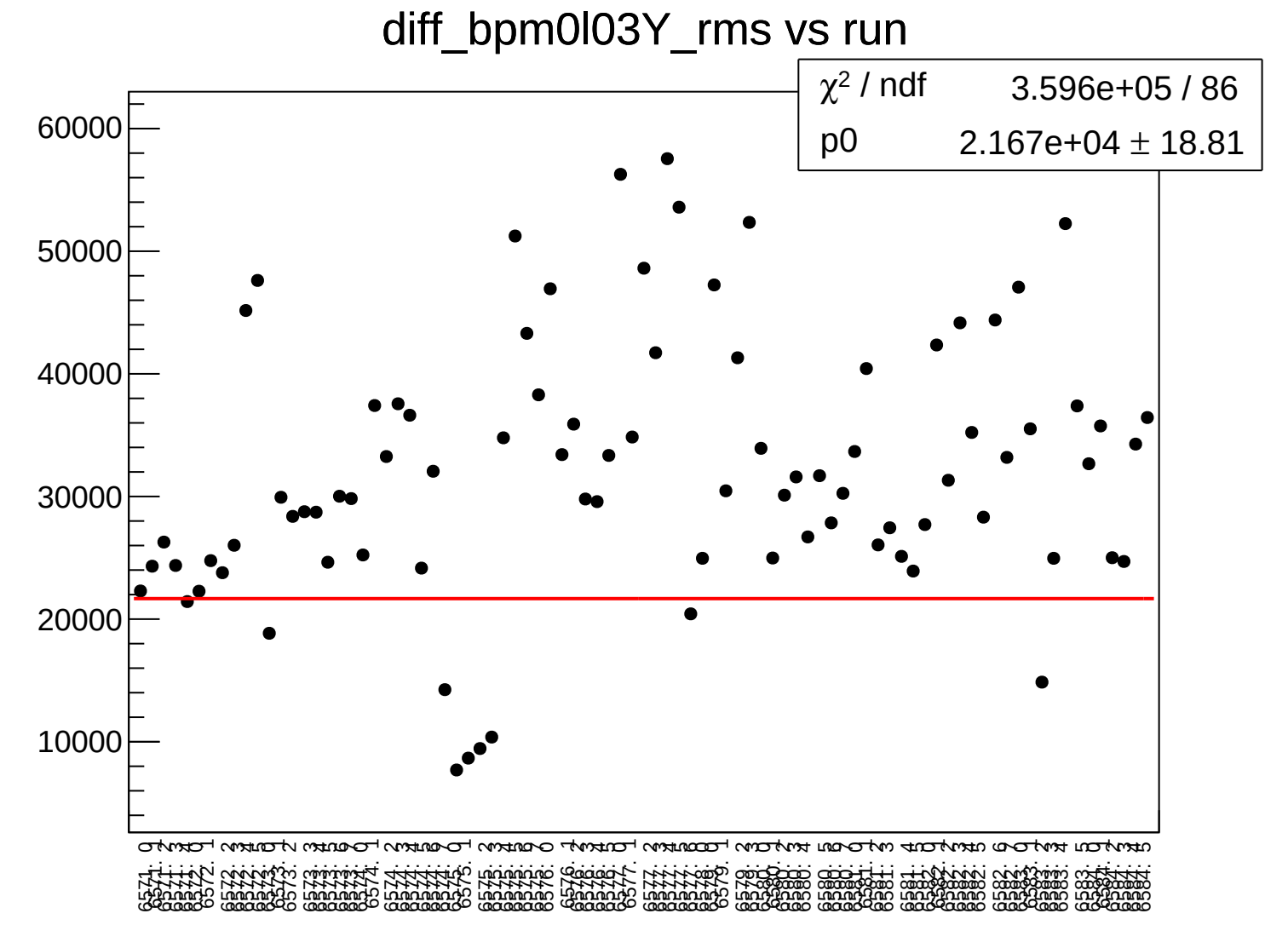

diff_bpm0l03X_mean vs run
χ² / ndf 70.74 / 86
p0 13.49 ± 26.98
pull
Entries 87
Mean 74.62
Std Dev 49.12

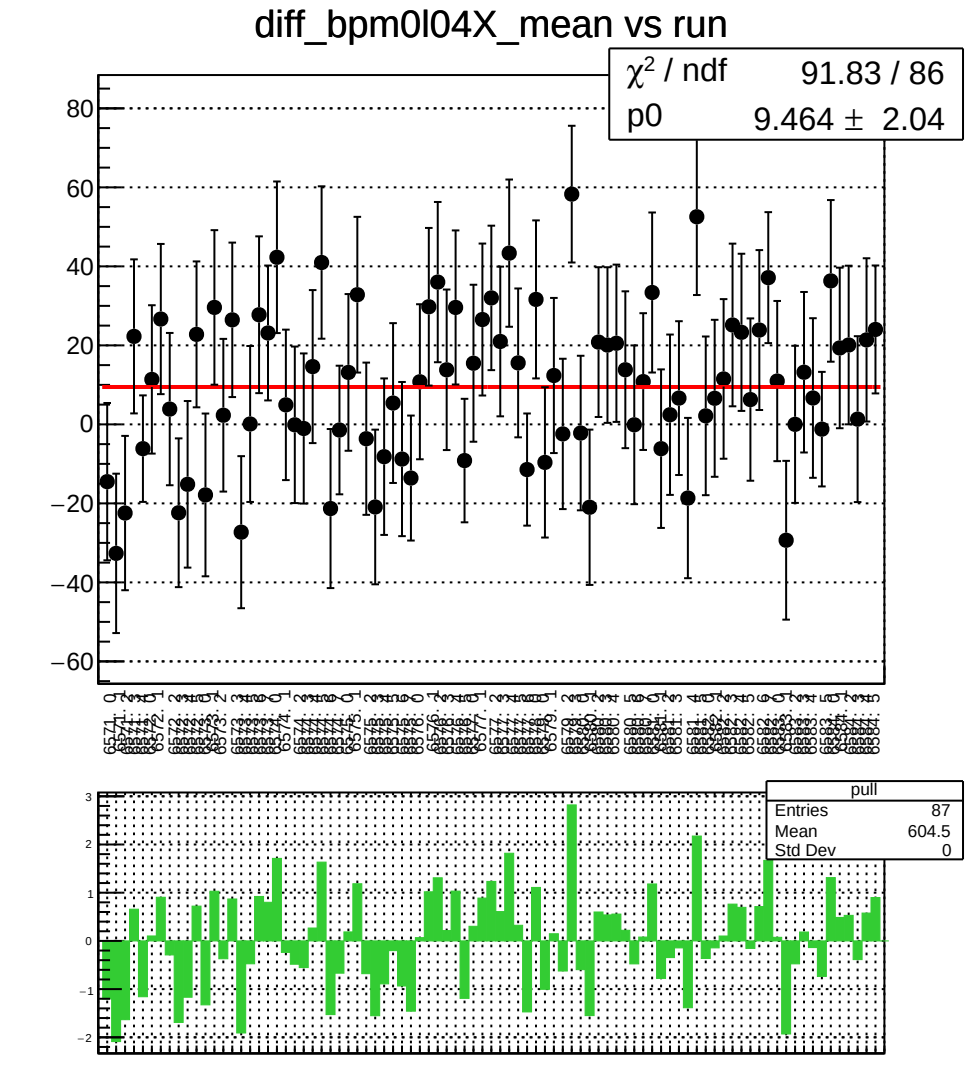

pull1D
Entries 87
Mean 0.01792
Std Dev 0.9016

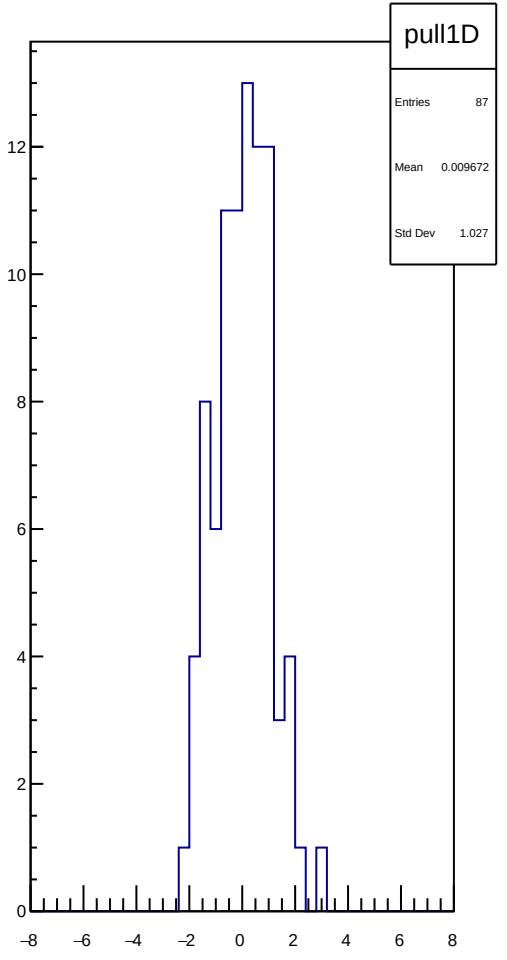

diff_bpm0l03X_rms vs run
χ² / ndf 3.425e+05 / 86
p0 2.212e+04 ± 19.08
60000
50000
40000
30000
20000
10000

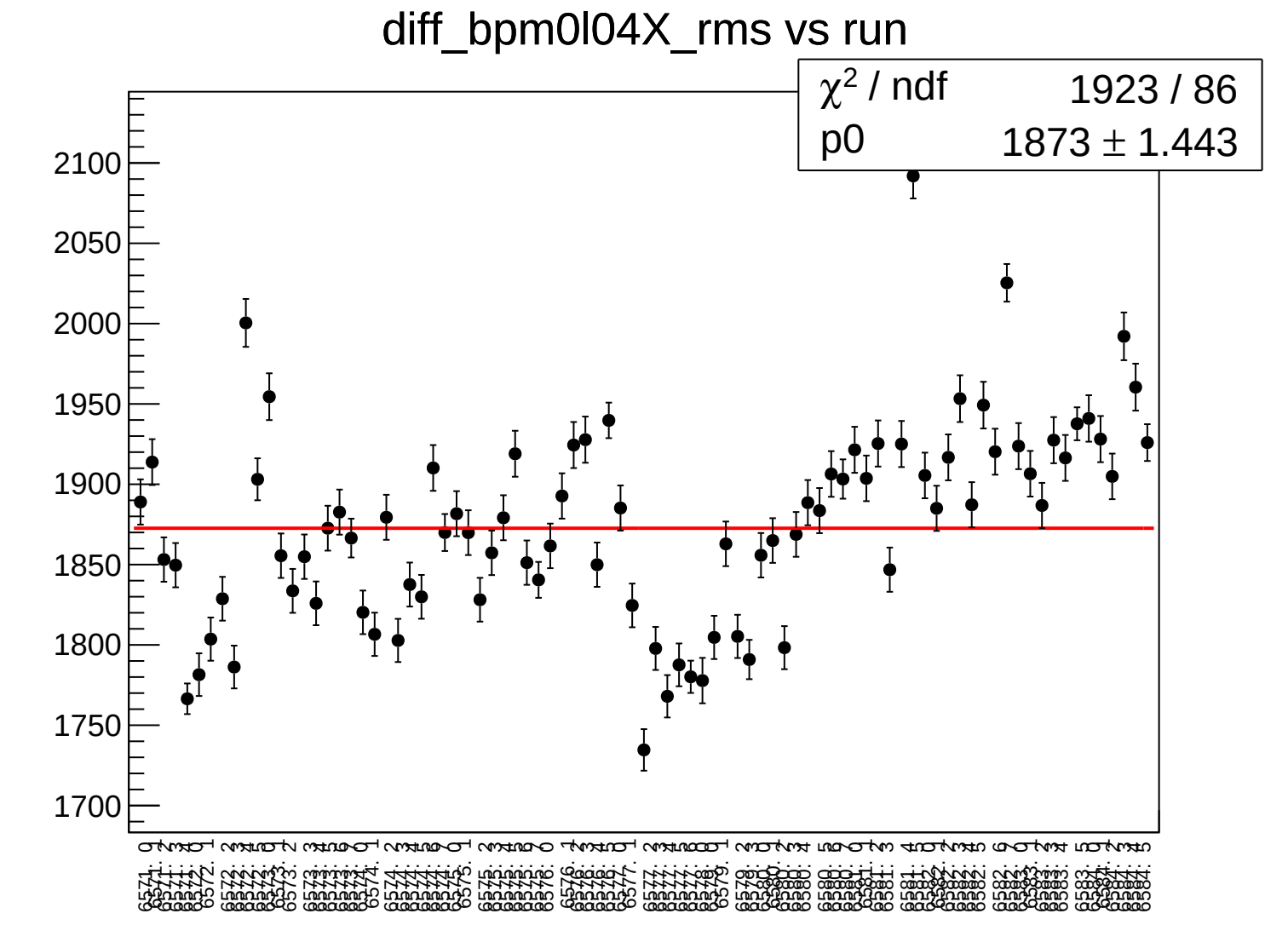

diff_bpm0l03Y_mean vs run
χ² / ndf 72.02 / 86
p0 2.443 ± 26.6
pull
Entries 87
Mean 235.7
Std Dev 0

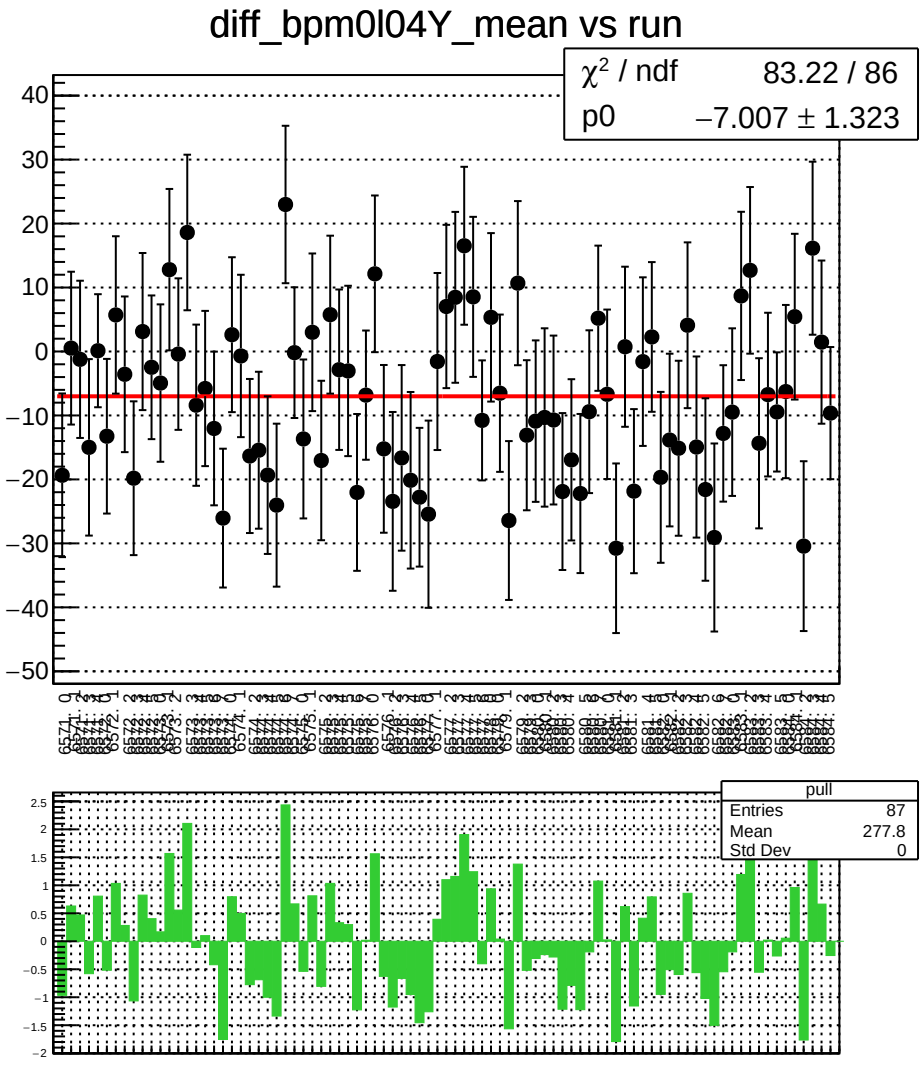

pull1D
Entries 87
Mean 0.00294
Std Dev 0.9098

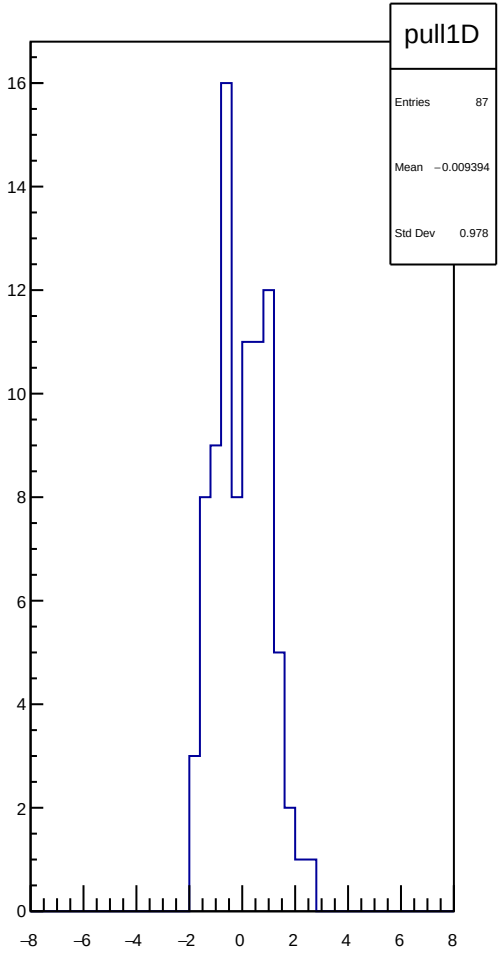

diff_bpm0l03Y_rms vs run
χ² / ndf 3.596e+05 / 86
p0 2.167e+04 ± 18.81
60000
50000
40000
30000
20000
10000

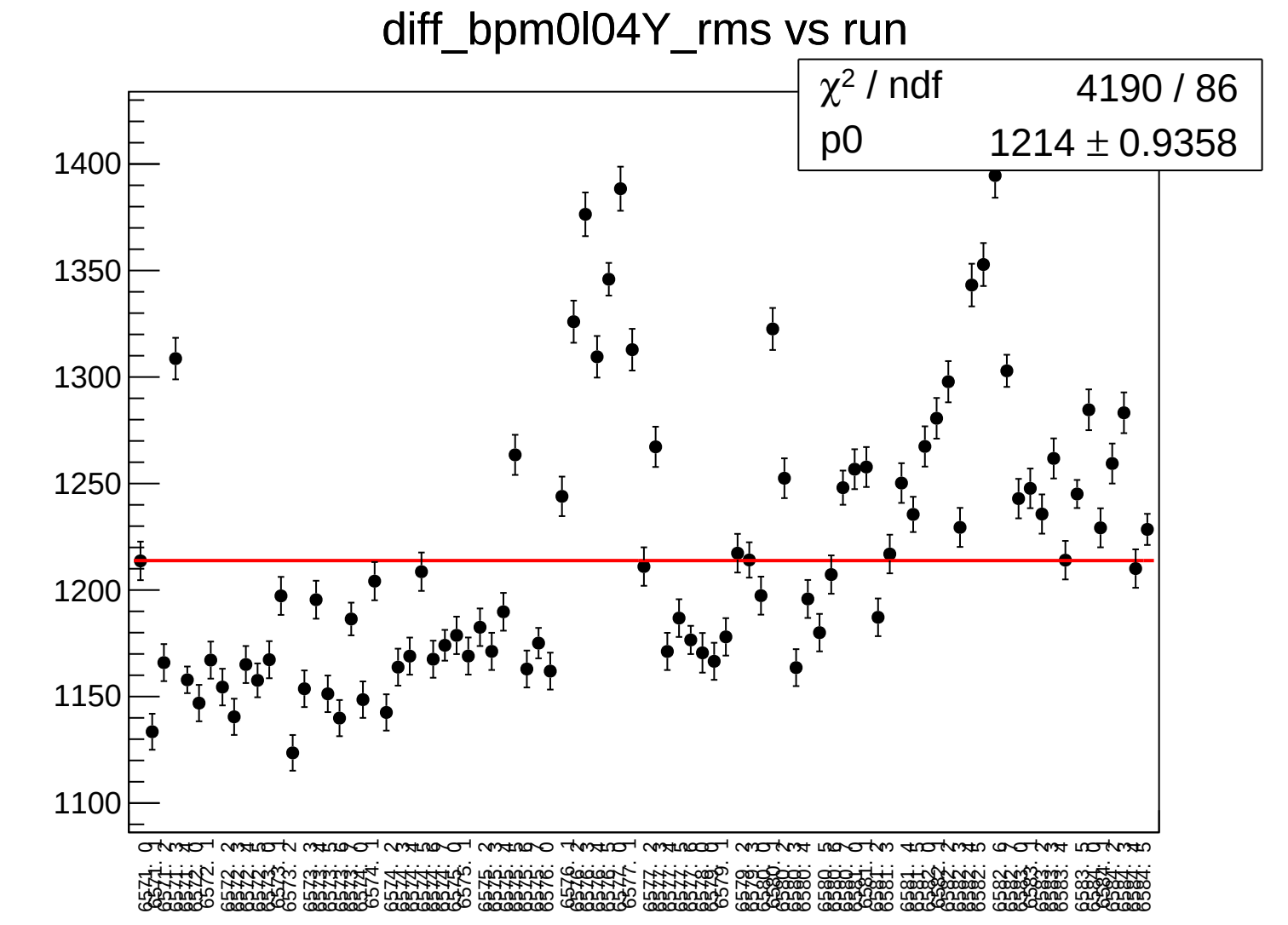

diff_bpm0l04X_mean vs run
χ² / ndf 91.83 / 86
p0 9.464 ± 2.04
pull
Entries 87
Mean 604.5
Std Dev 0

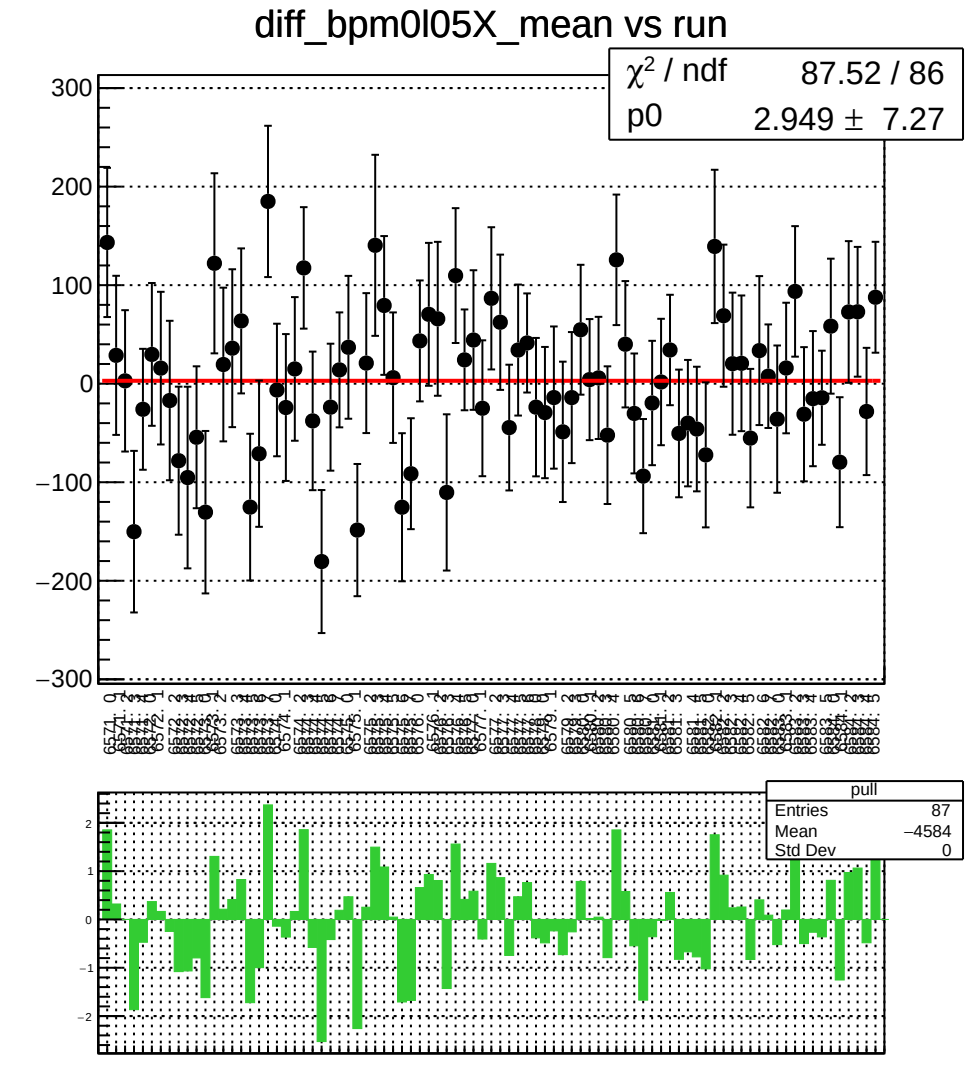

pull1D
Entries 87
Mean 0.009672
Std Dev 1.027

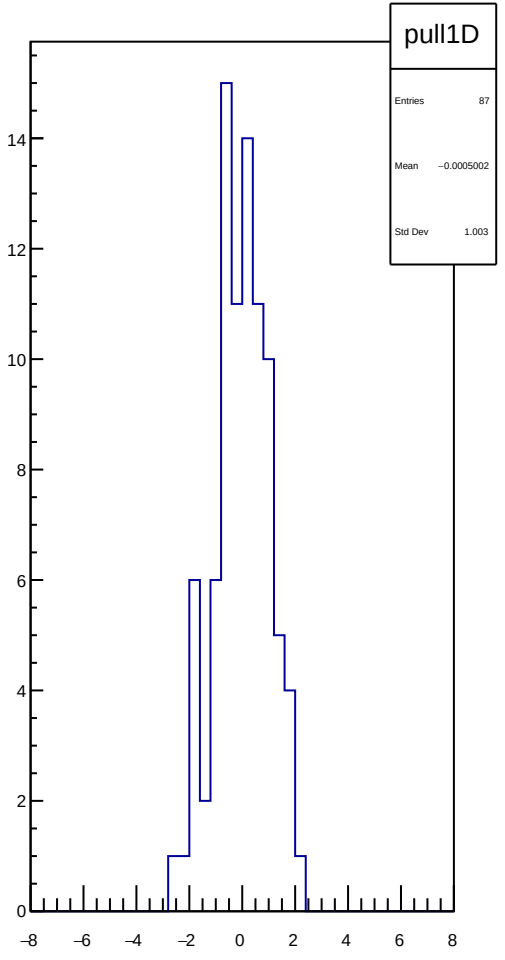

diff_bpm0l04X_rms vs run
χ² / ndf 1923 / 86
p0 1873 ± 1.443
2100
2050
2000
1950
1900
1850
1800
1750
1700

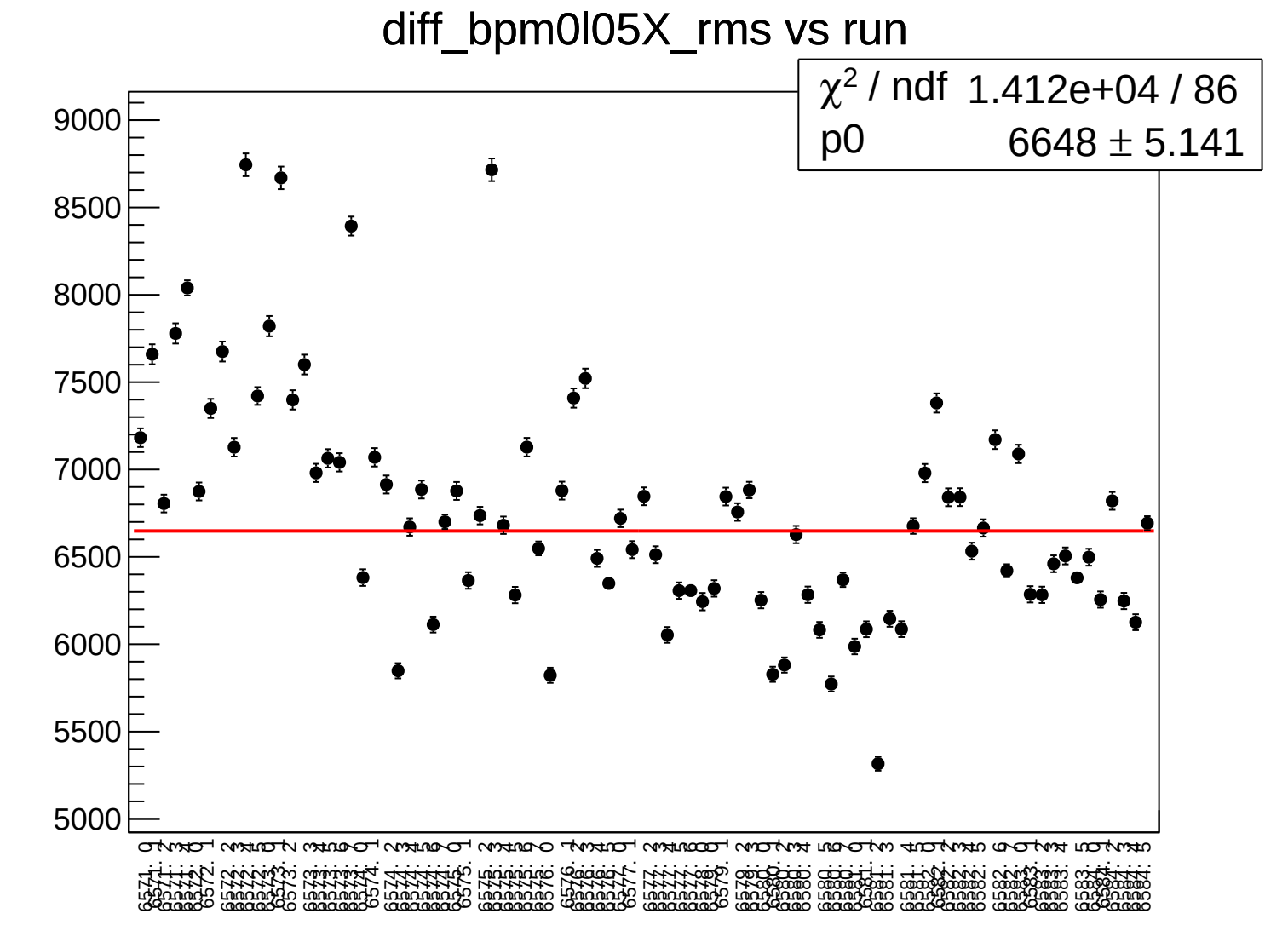

diff_bpm0l04Y_mean vs run
χ² / ndf 83.22 / 86
p0 −7.007 ± 1.323
pull
Entries 87
Mean 277.8
Std Dev 0

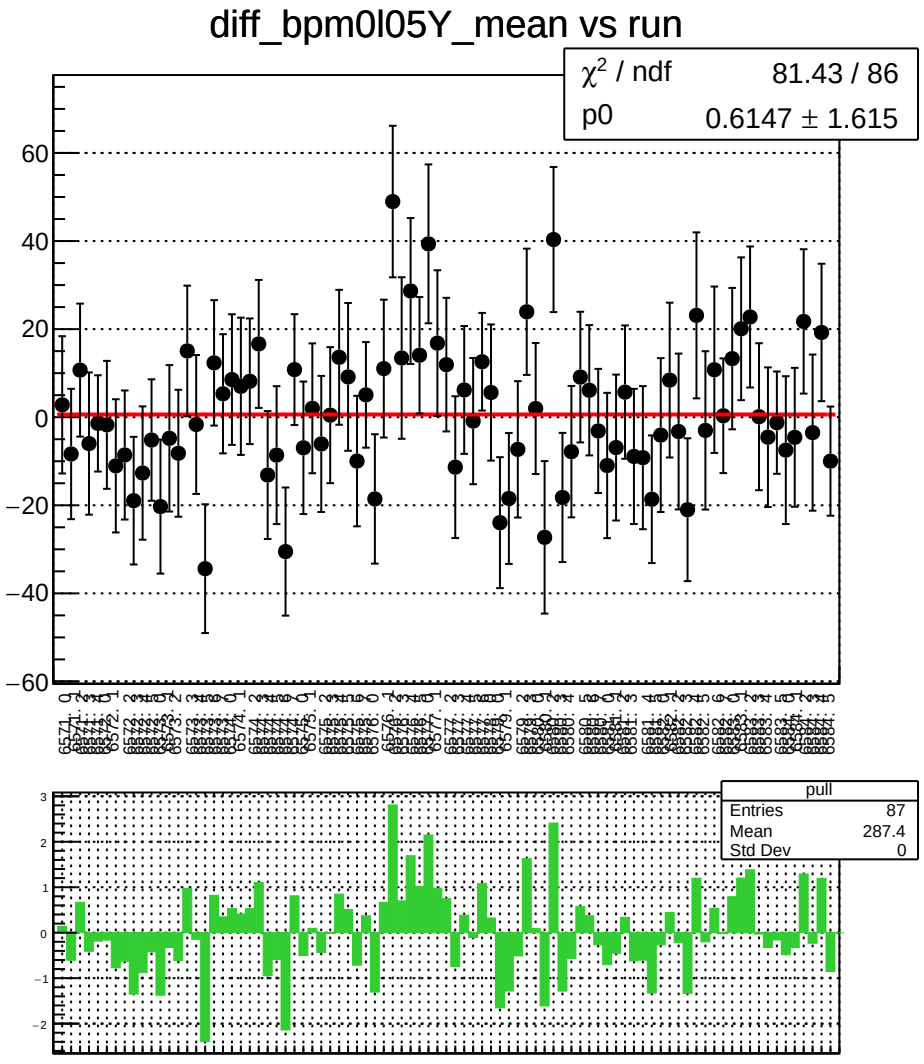

pull1D
Entries 87
Mean −0.009394
Std Dev 0.978

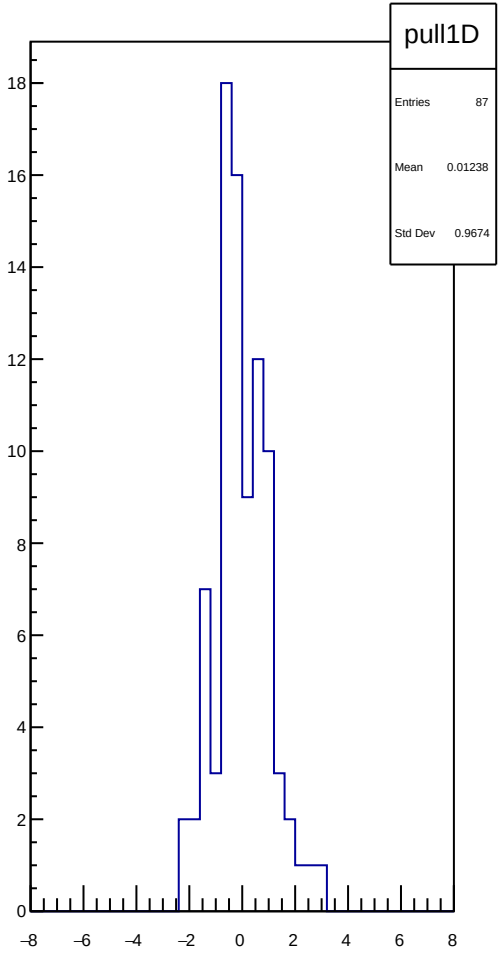

diff_bpm0l04Y_rms vs run
χ² / ndf 4190 / 86
p0 1214 ± 0.9358
1400
1350
1300
1250
1200
1150
1100

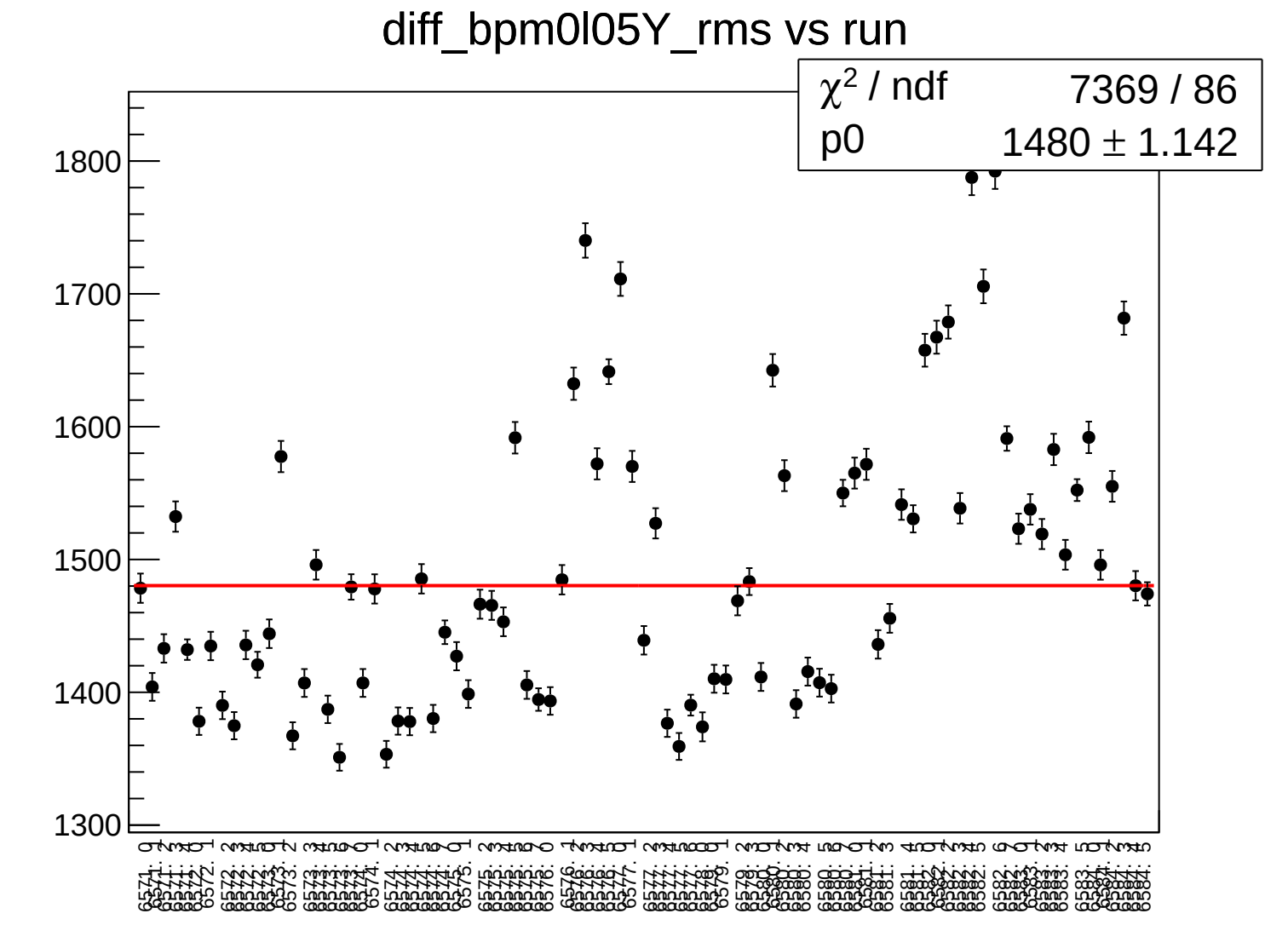

diff_bpm0l05X_mean vs run
χ² / ndf 87.52 / 86
p0 2.949 ± 7.27
pull
Entries 87
Mean −4584
Std Dev 0

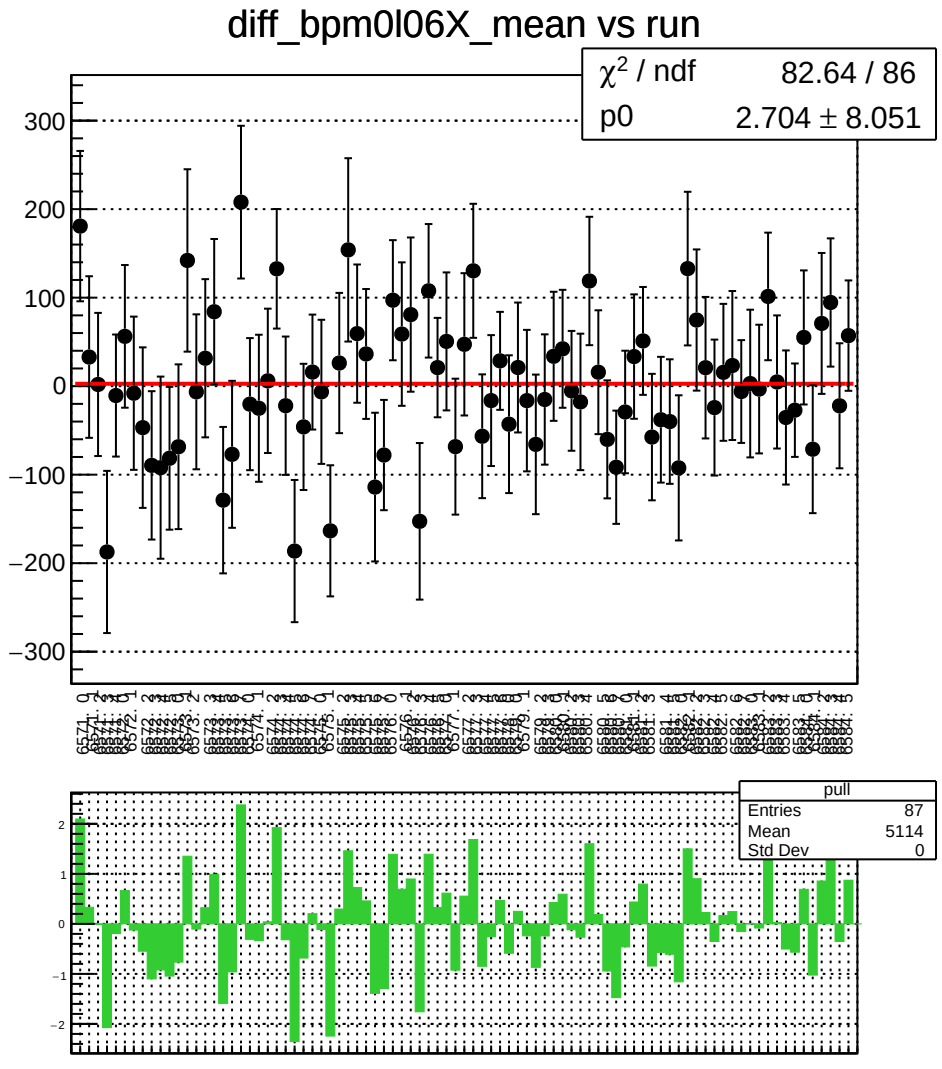

pull1D
Entries 87
Mean −0.0005002
Std Dev 1.003

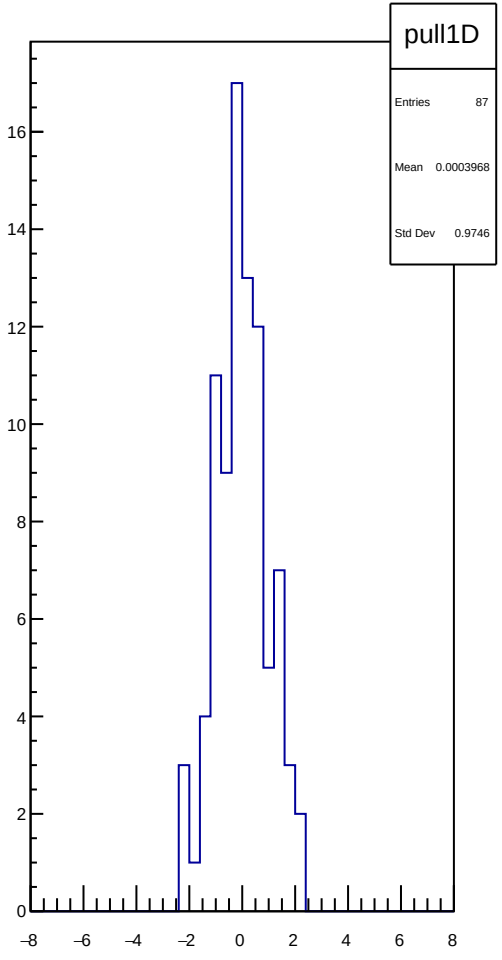

diff_bpm0l05X_rms vs run
χ² / ndf 1.412e+04 / 86
p0 6648 ± 5.141
9000
8500
8000
7500
7000
6500
6000
5500
5000

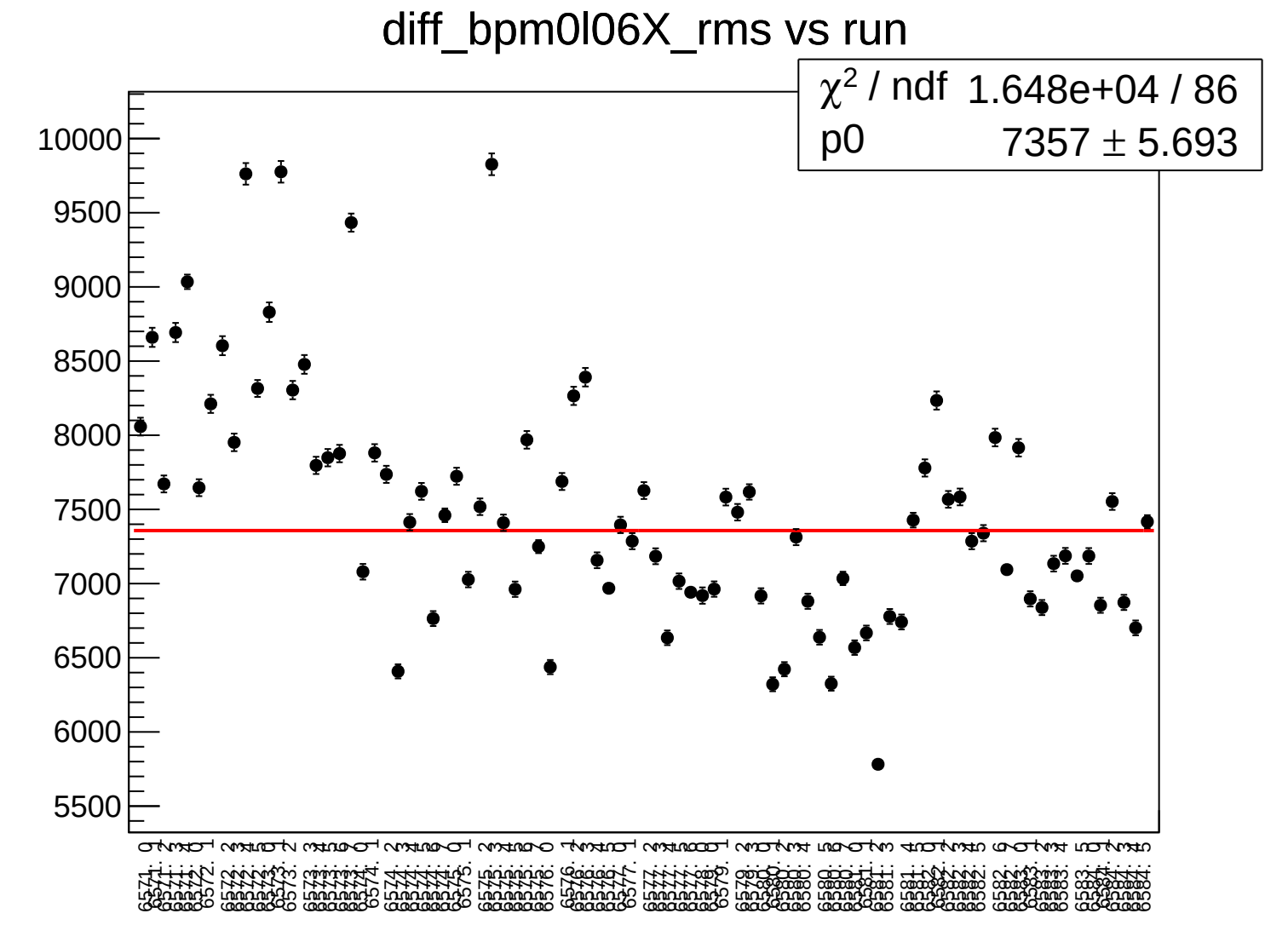

diff_bpm0l05Y_mean vs run
χ² / ndf 81.43 / 86
p0 0.6147 ± 1.615
pull
Entries 87
Mean 287.4
Std Dev 0

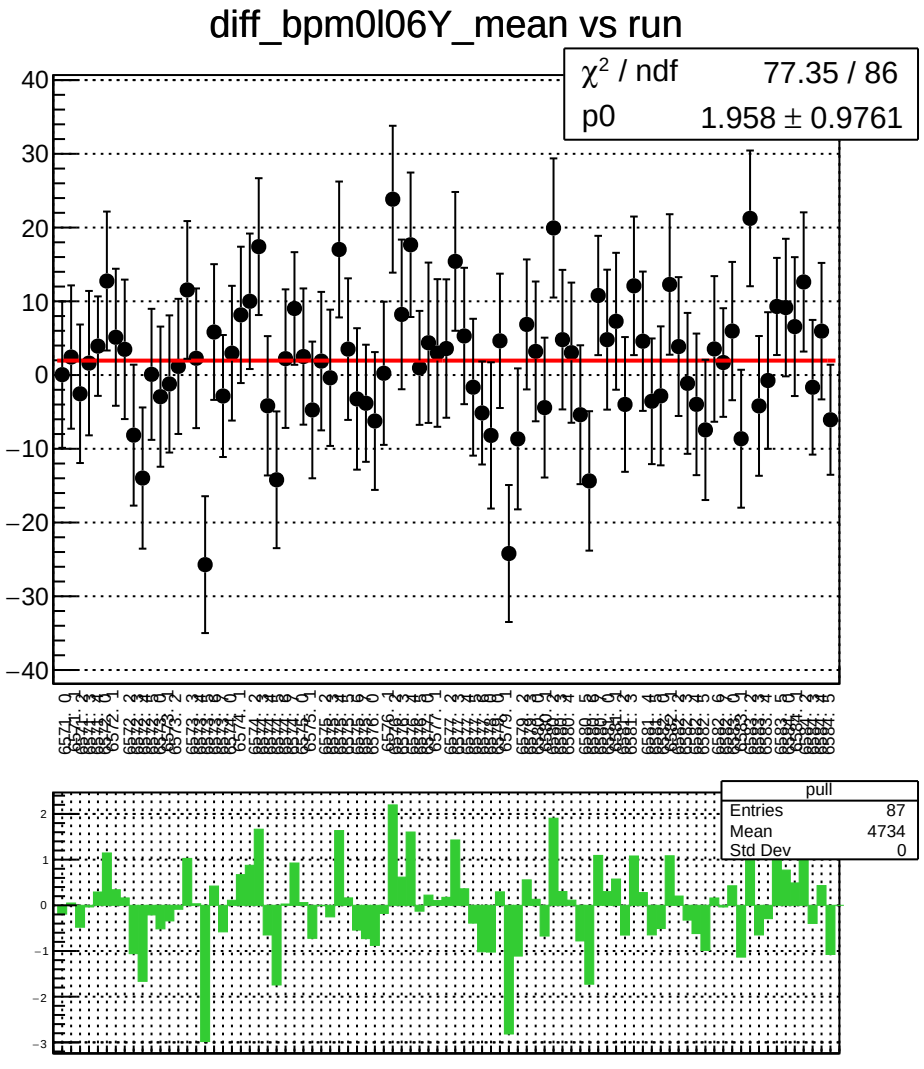

pull1D
Entries 87
Mean 0.01238
Std Dev 0.9674

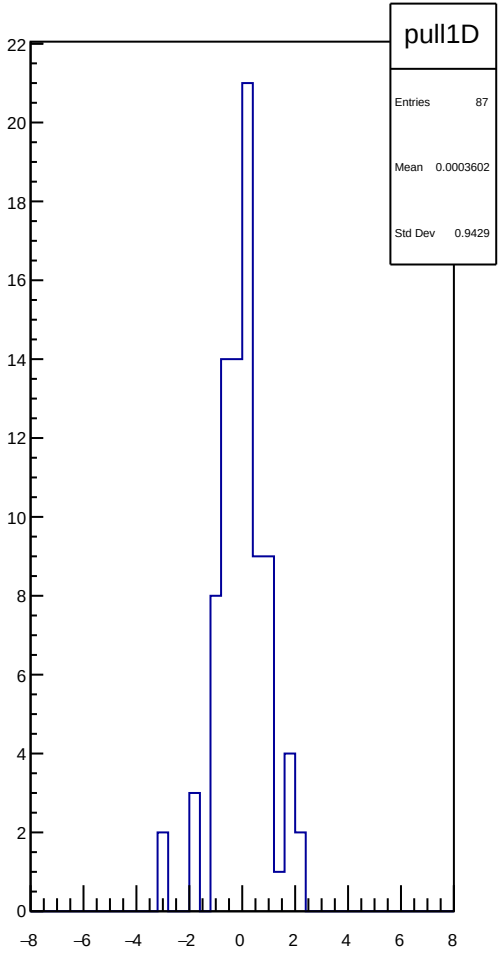

diff_bpm0l05Y_rms vs run
χ² / ndf 7369 / 86
p0 1480 ± 1.142
1800
1700
1600
1500
1400
1300

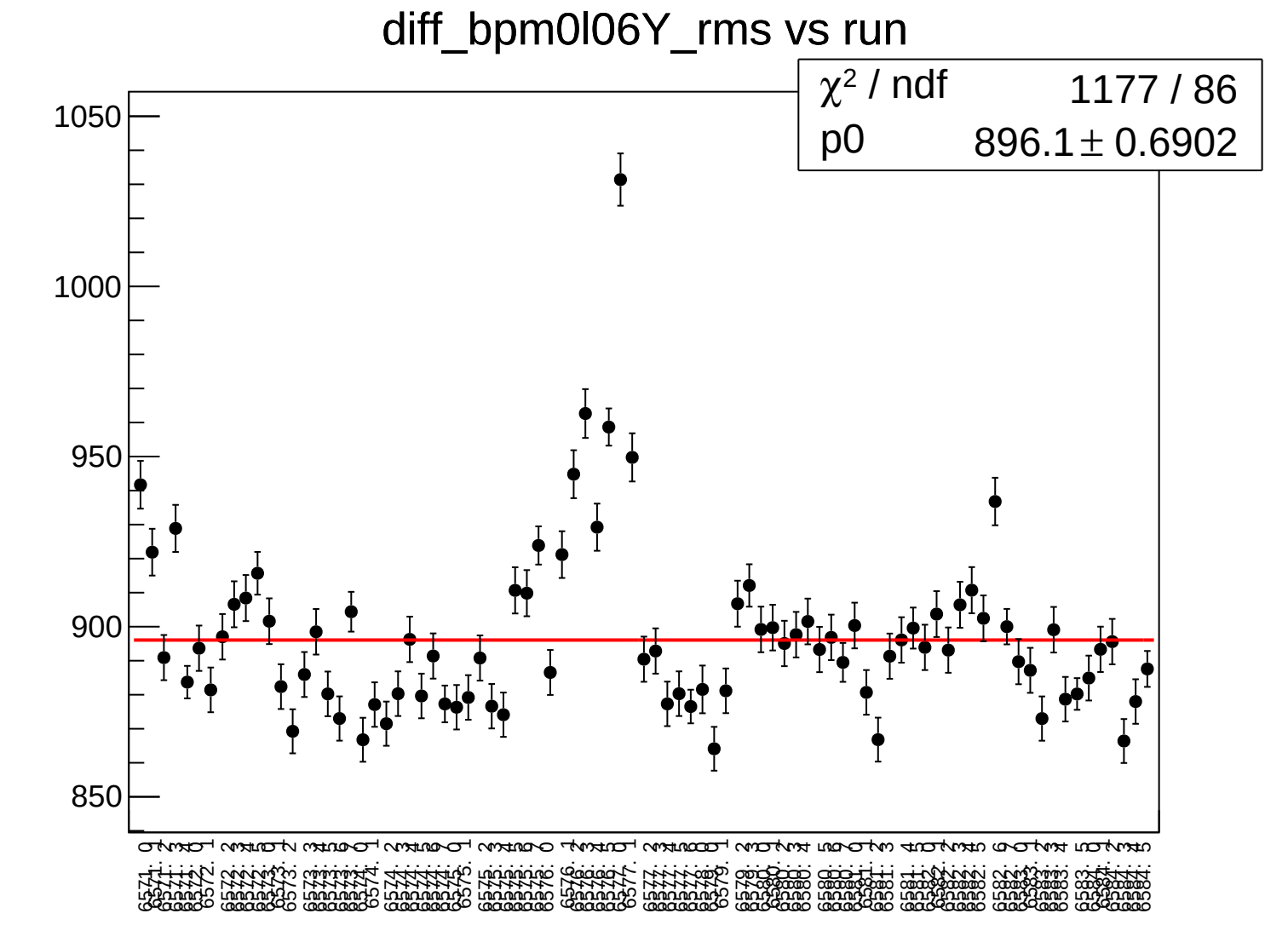

diff_bpm0l06X_mean vs run
χ^2 / ndf 82.64 / 86
p0 2.704 ± 8.051
pull
Entries 87
Mean 5114
Std Dev 0

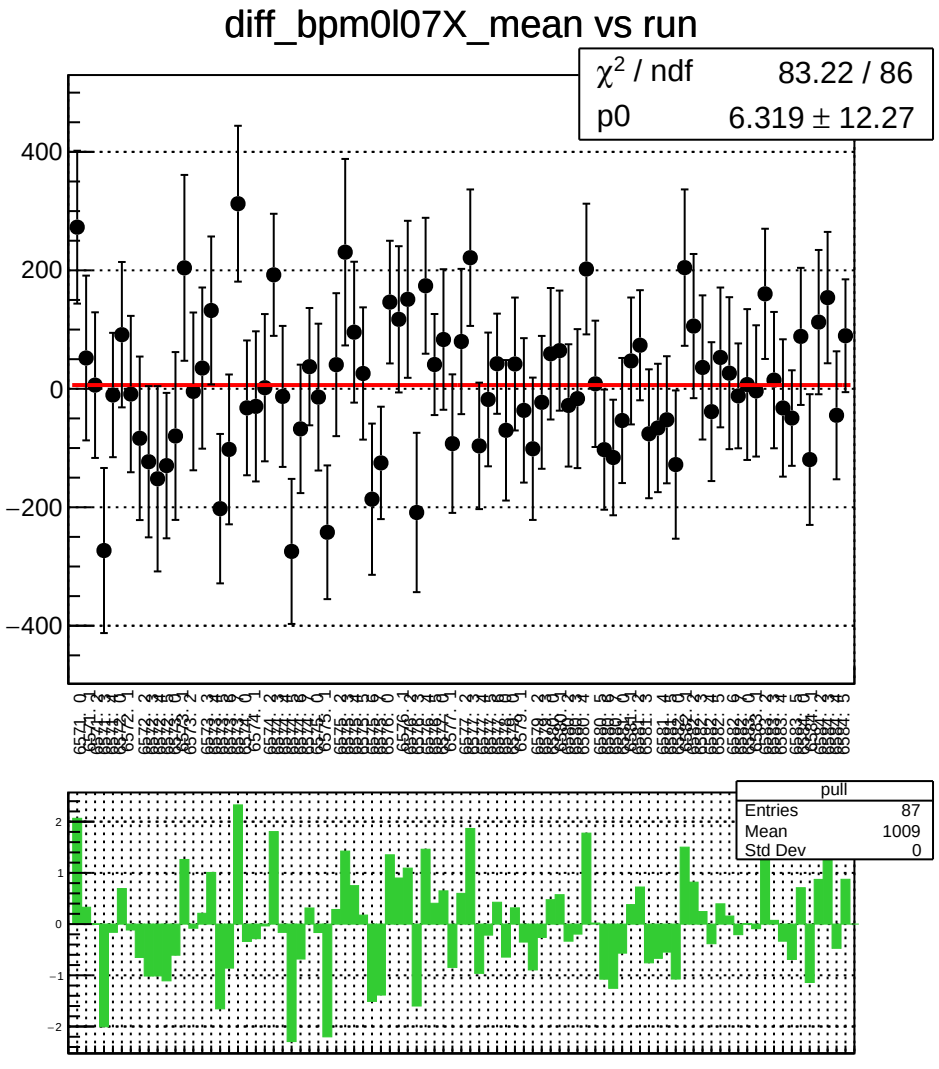

pull1D
Entries 87
Mean 0.0003968
Std Dev 0.9746

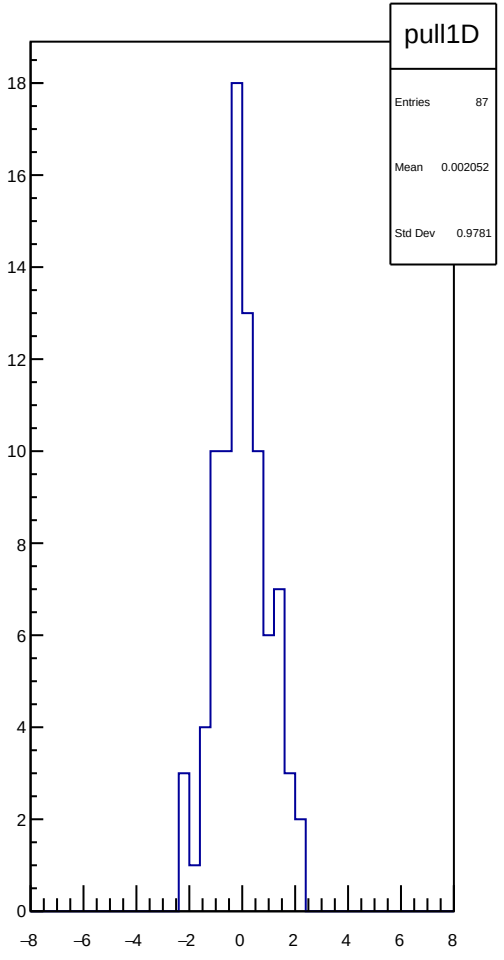

diff_bpm0l06X_rms vs run
χ² / ndf 1.648e+04 / 86
p0 7357 ± 5.693
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500


diff_bpm0l06Y_mean vs run
χ² / ndf 77.35 / 86
p0 1.958 ± 0.9761
pull
Entries 87
Mean 4734
Std Dev 0

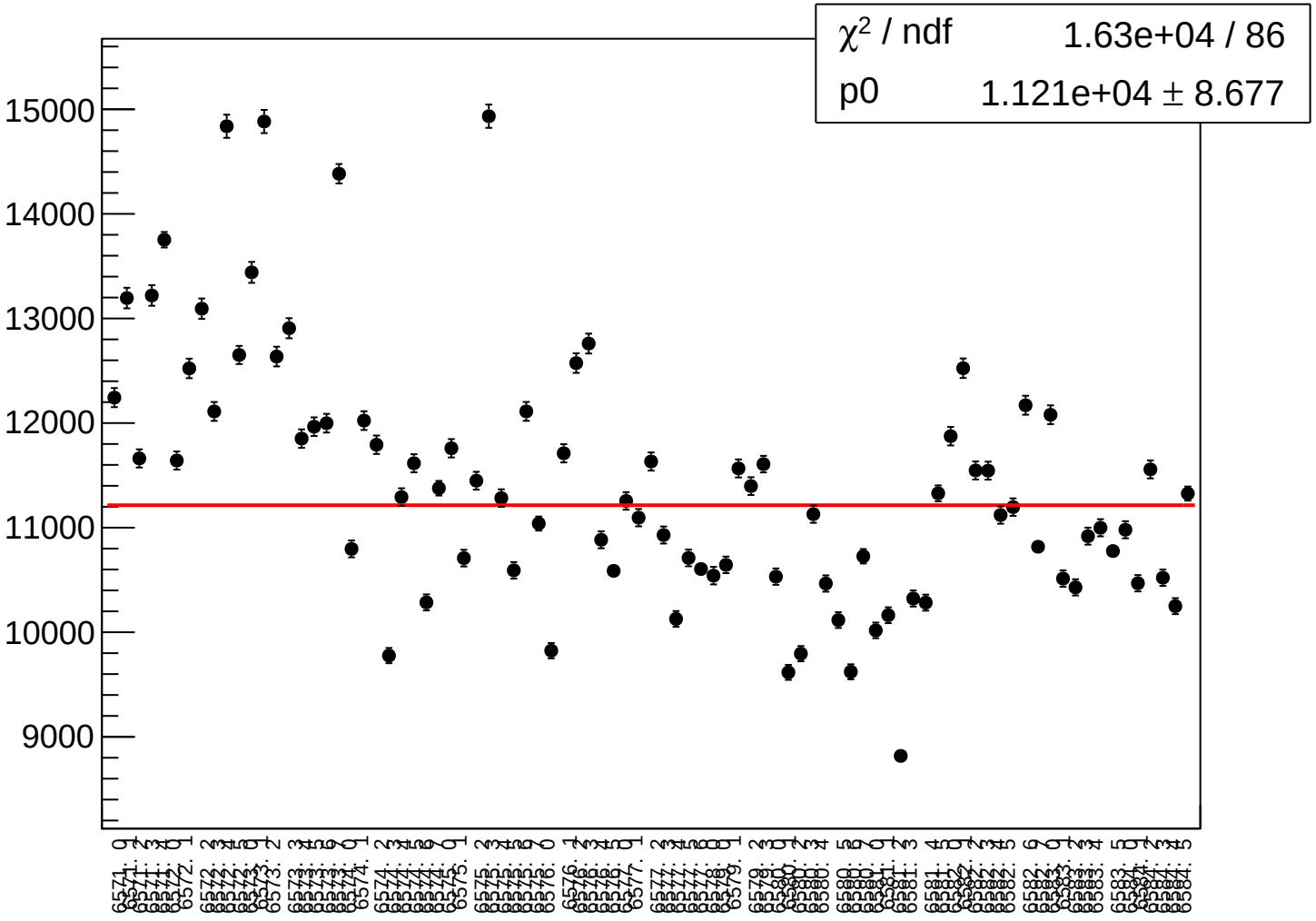

pull1D
Entries 87
Mean 0.0003602
Std Dev 0.9429

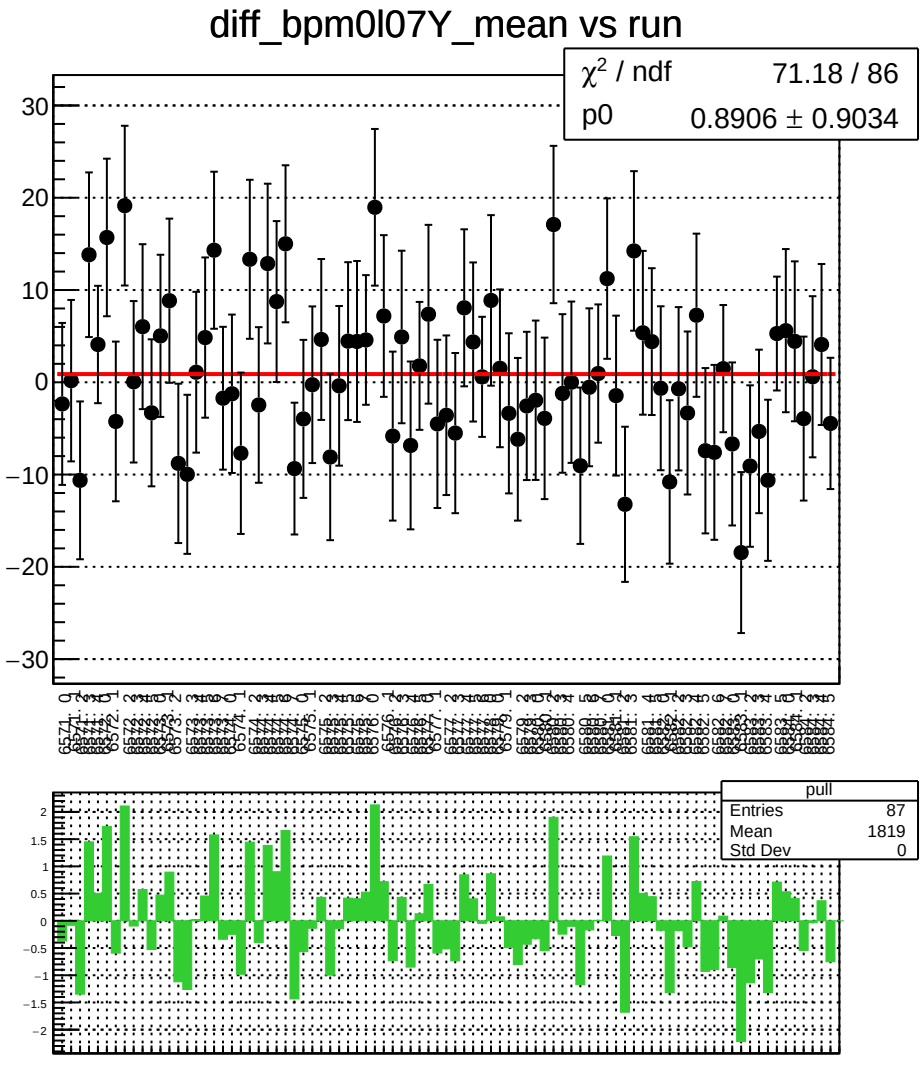

diff_bpm0l06Y_rms vs run
χ² / ndf 1177 / 86
p0 896.1 ± 0.6902
1050
1000
950
900
850

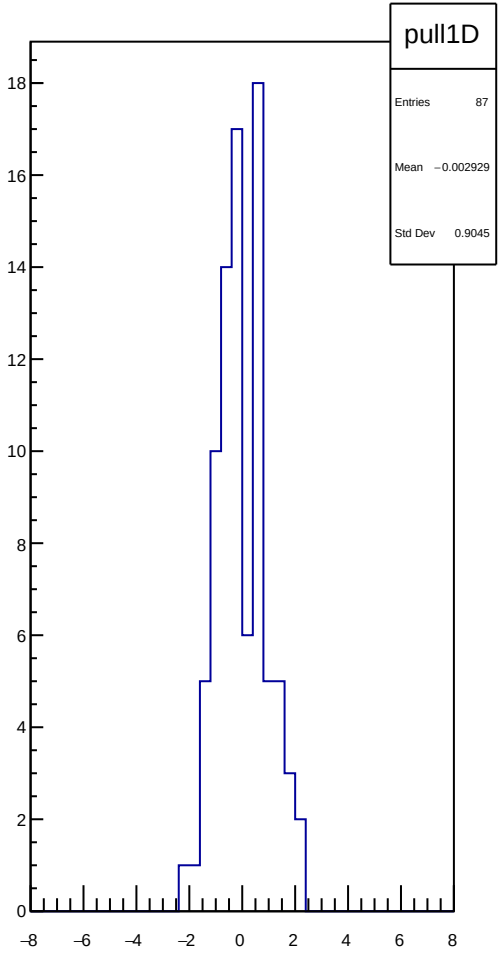

diff_bpm0l07X_mean vs run
χ² / ndf 83.22 / 86
p0 6.319 ± 12.27
400
200
0
−200
−400
pull
Entries 87
Mean 1009
Std Dev 0
2
1
0
−1
−2

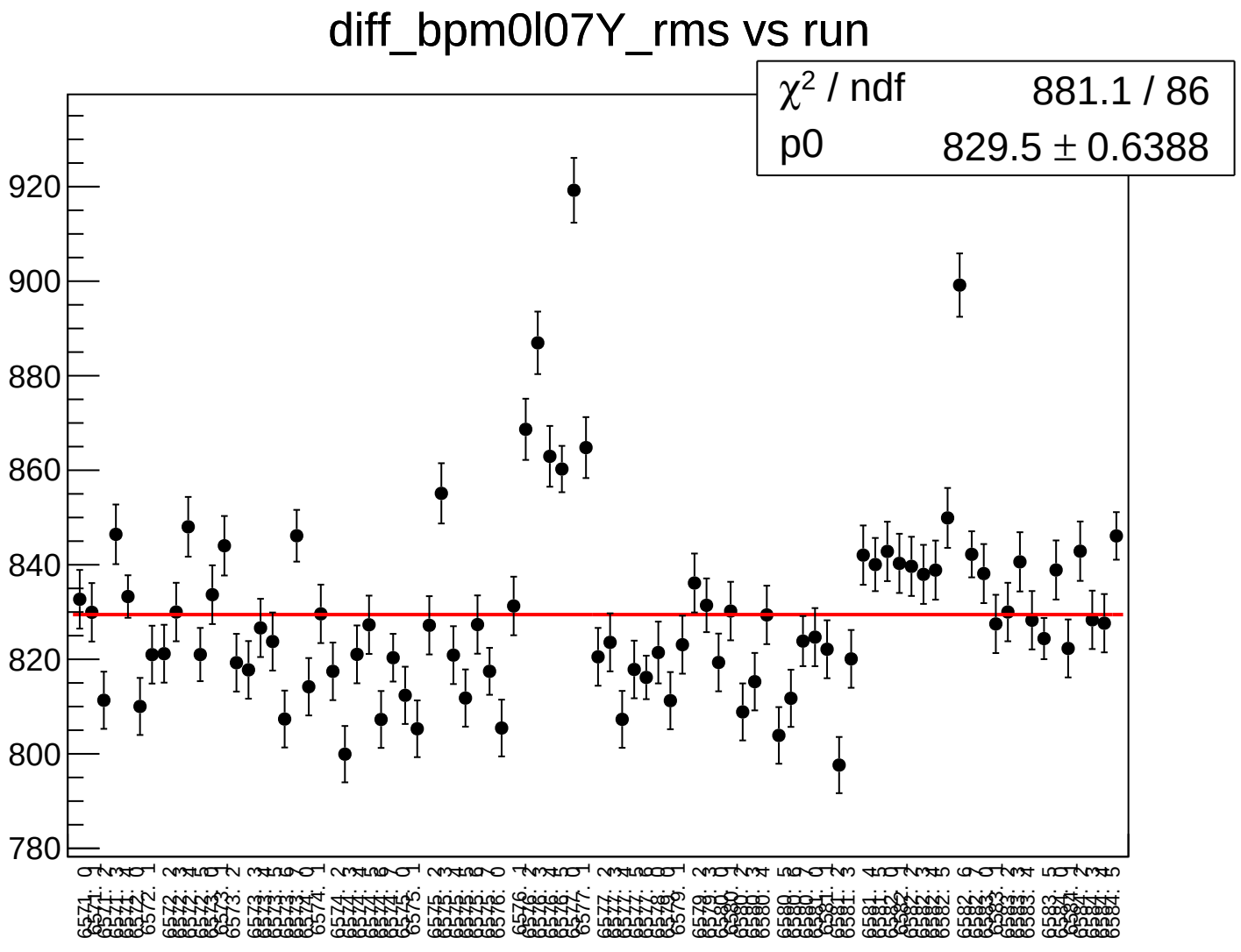

pull1D
Entries 87
Mean 0.002052
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

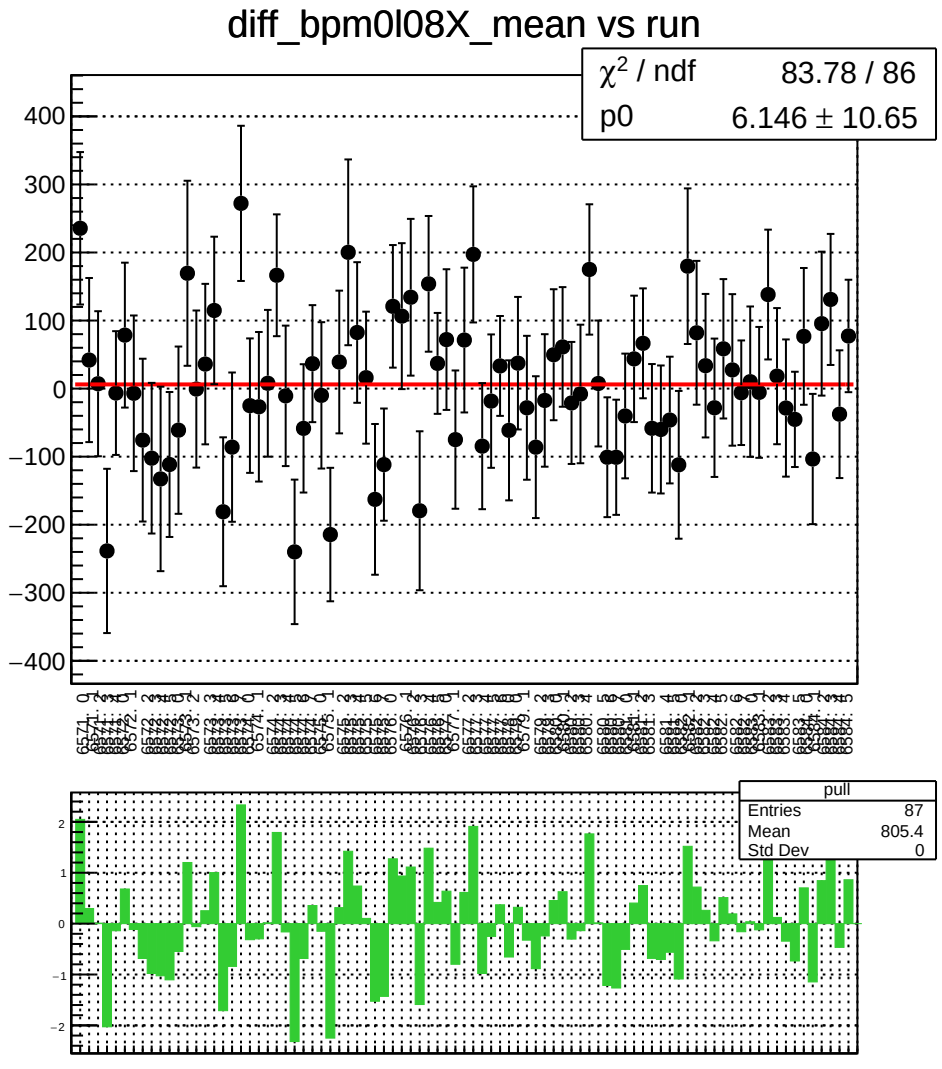
diff_bpm0l07X_rms vs run

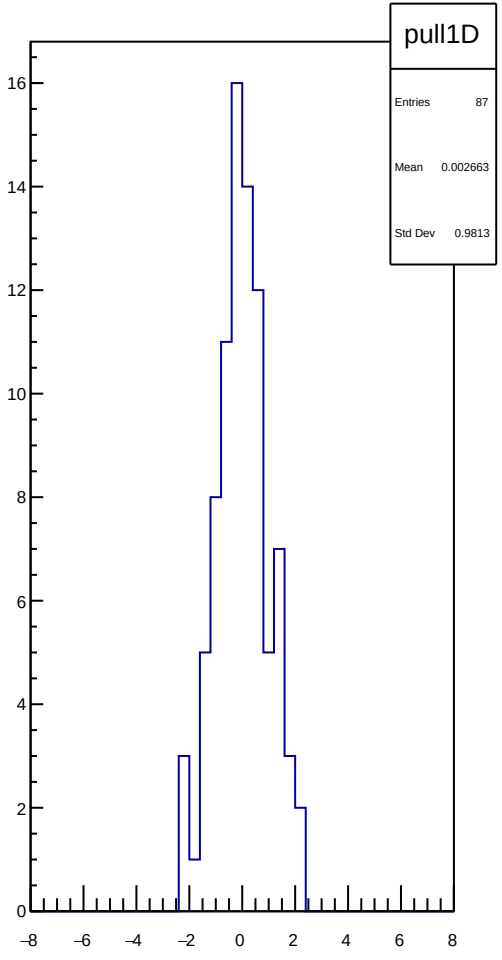


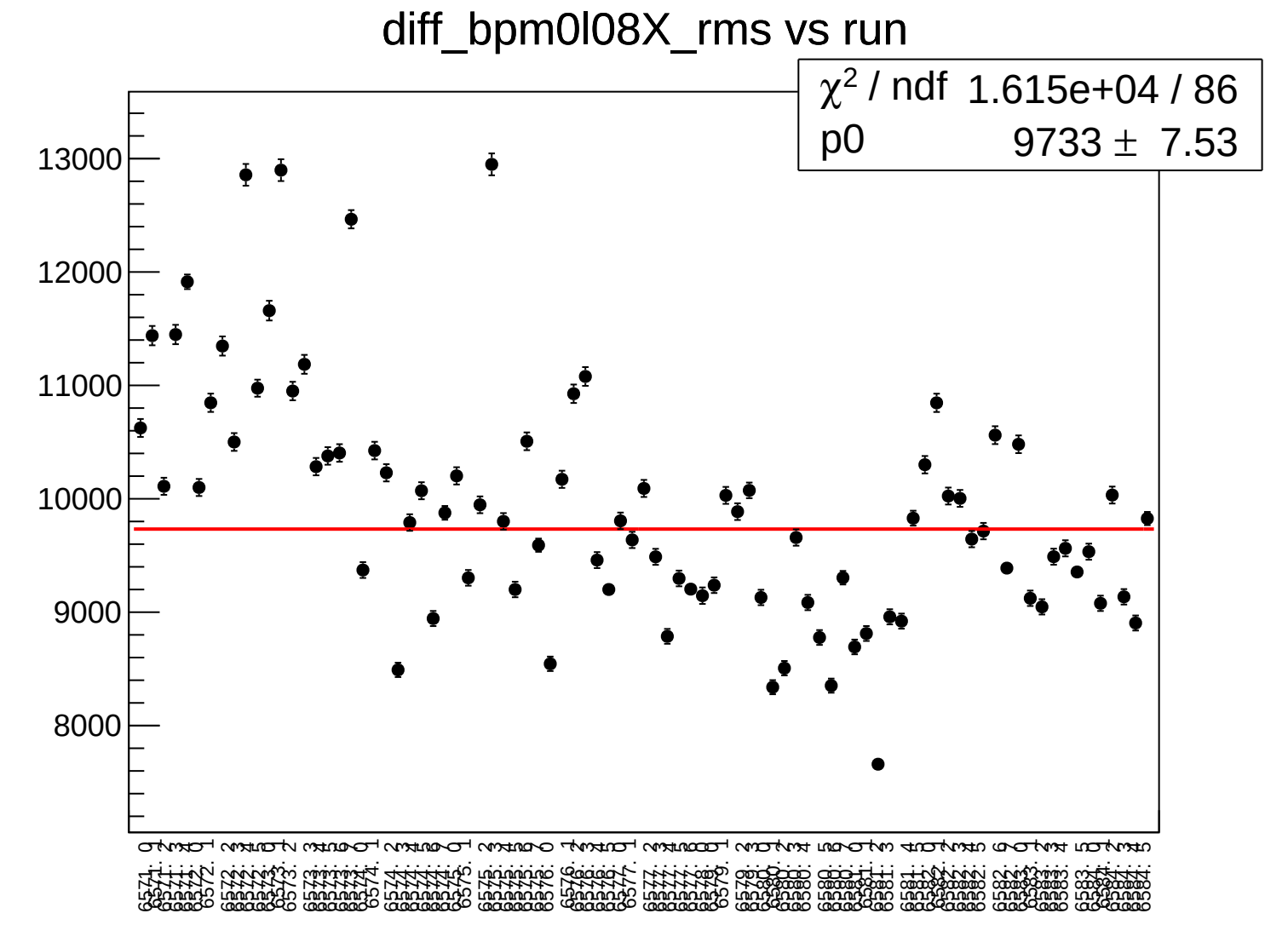

diff_bpm0l07Y_mean vs run
χ^2 / ndf 71.18 / 86
p0 0.8906 ± 0.9034
pull
Entries 87
Mean 1819
Std Dev 0

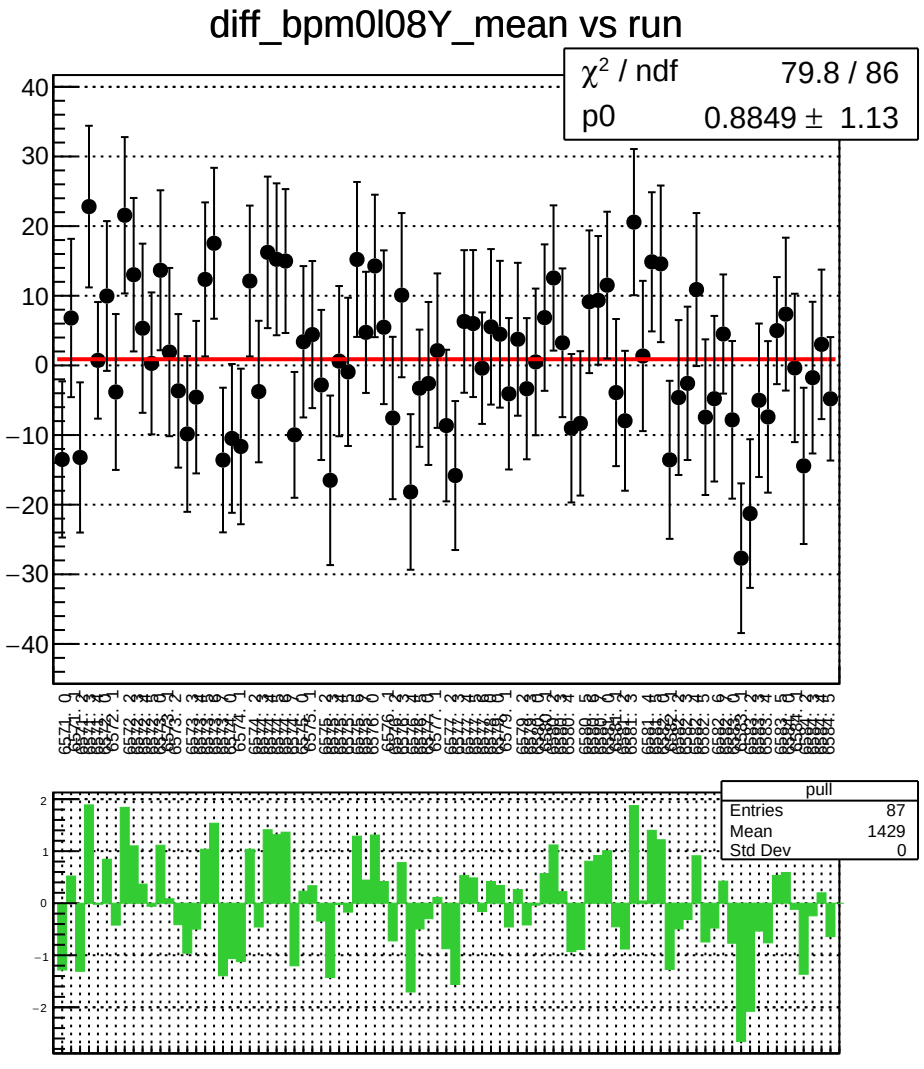

pull1D
Entries 87
Mean −0.002929
Std Dev 0.9045

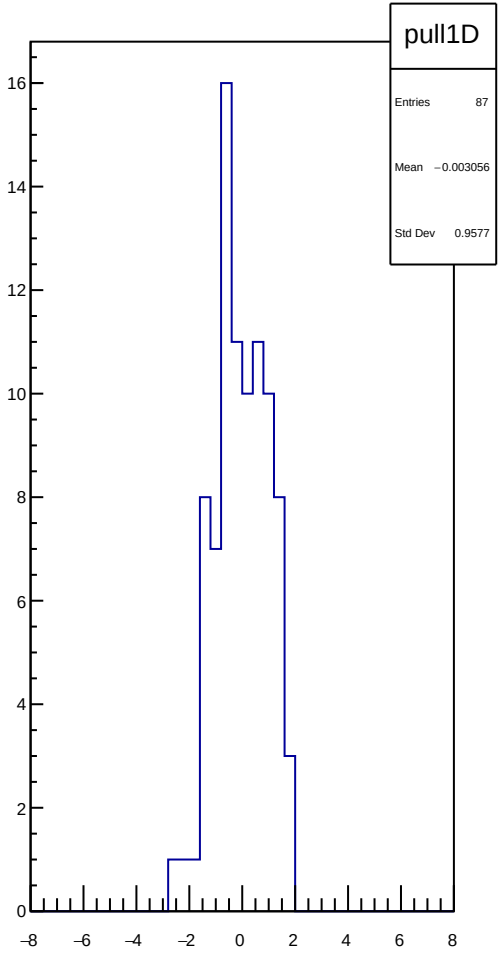

diff_bpm0l07Y_rms vs run
χ^2 / ndf 881.1 / 86
p0 829.5 ± 0.6388
920
900
880
860
840
820
800
780

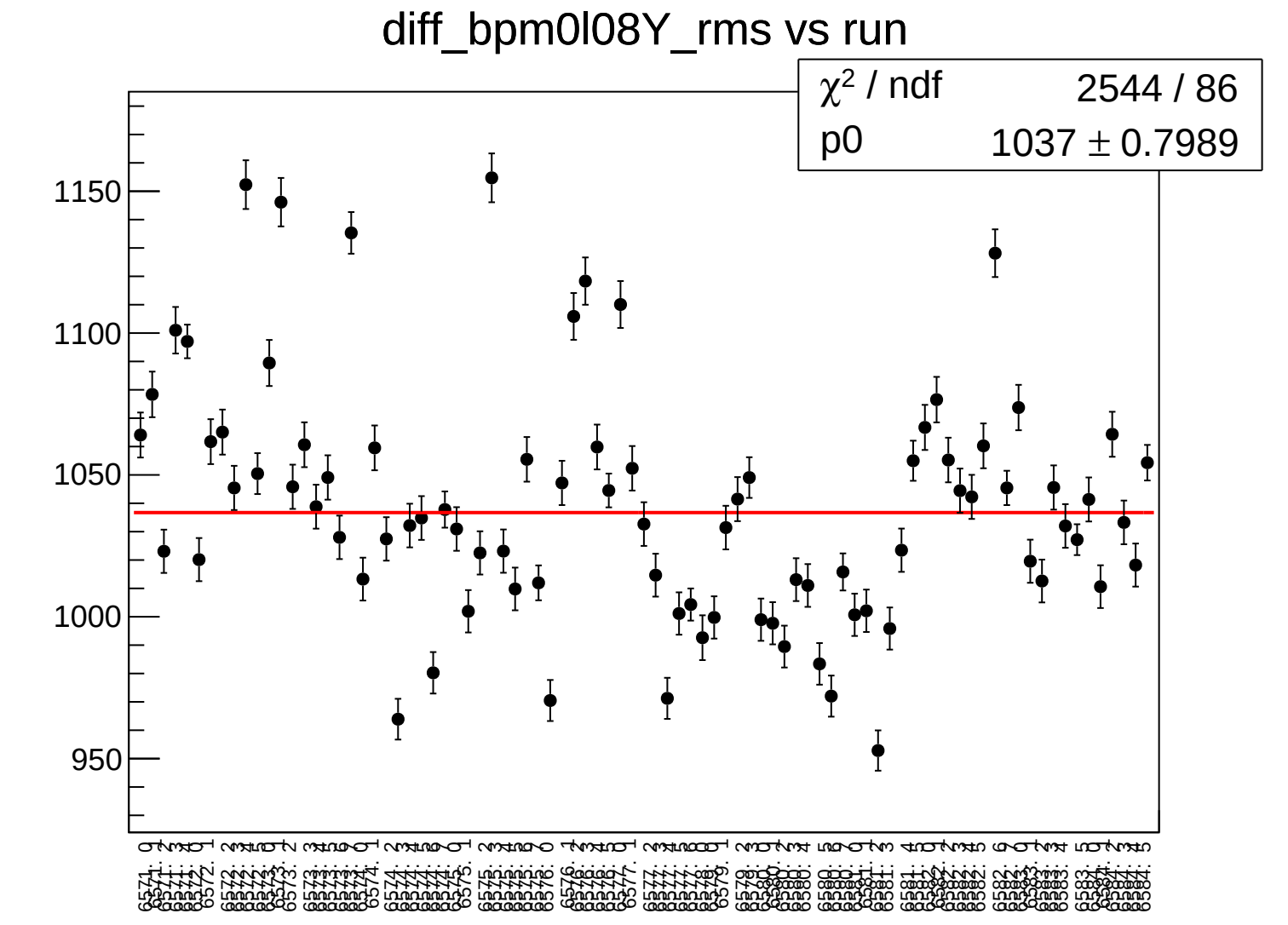

diff_bpm0l08X_mean vs run
χ^2 / ndf 83.78 / 86
p0 6.146 ± 10.65
pull
Entries 87
Mean 805.4
Std Dev 0

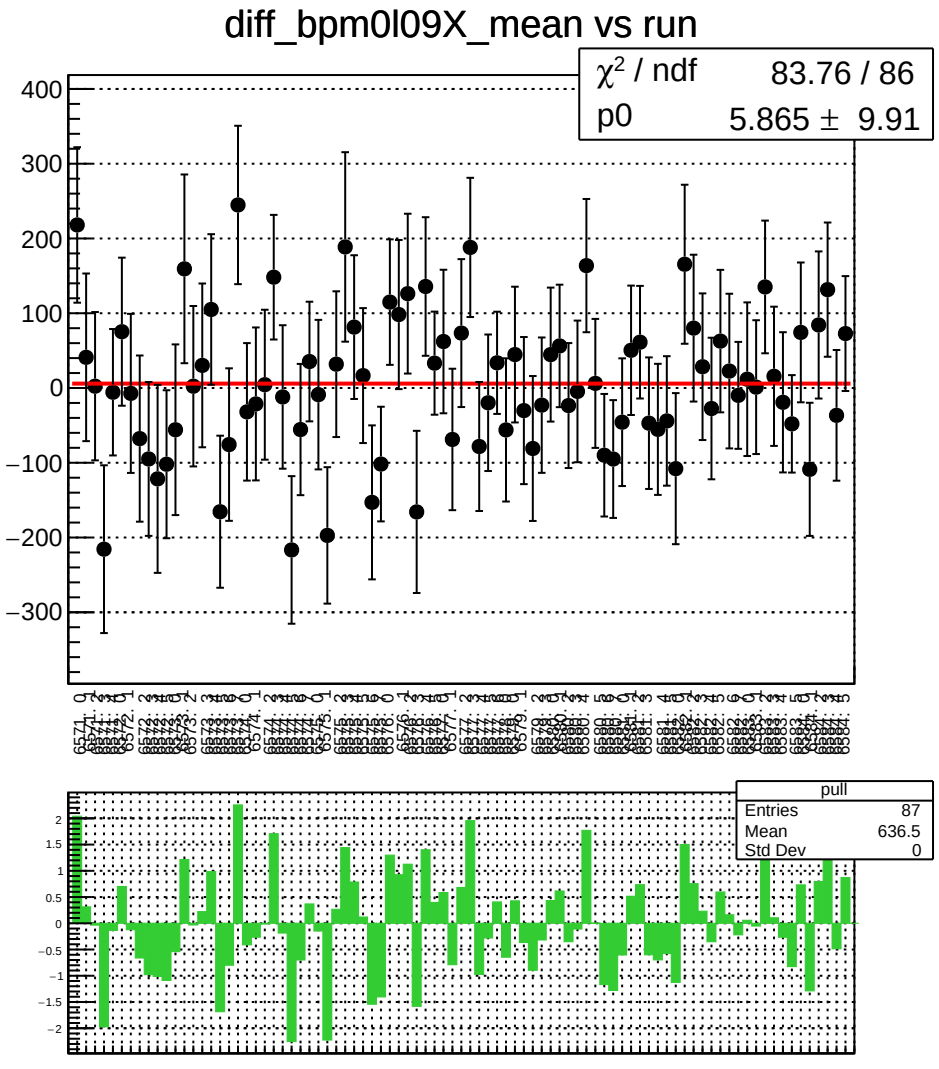

pull1D
Entries 87
Mean 0.002663
Std Dev 0.9813

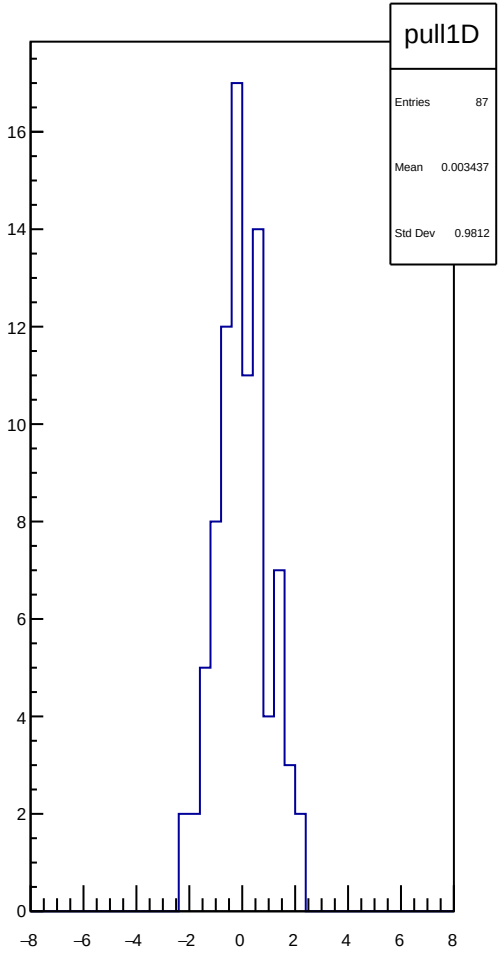

diff_bpm0l08X_rms vs run
χ² / ndf 1.615e+04 / 86
p0 9733 ± 7.53
13000
12000
11000
10000
9000
8000

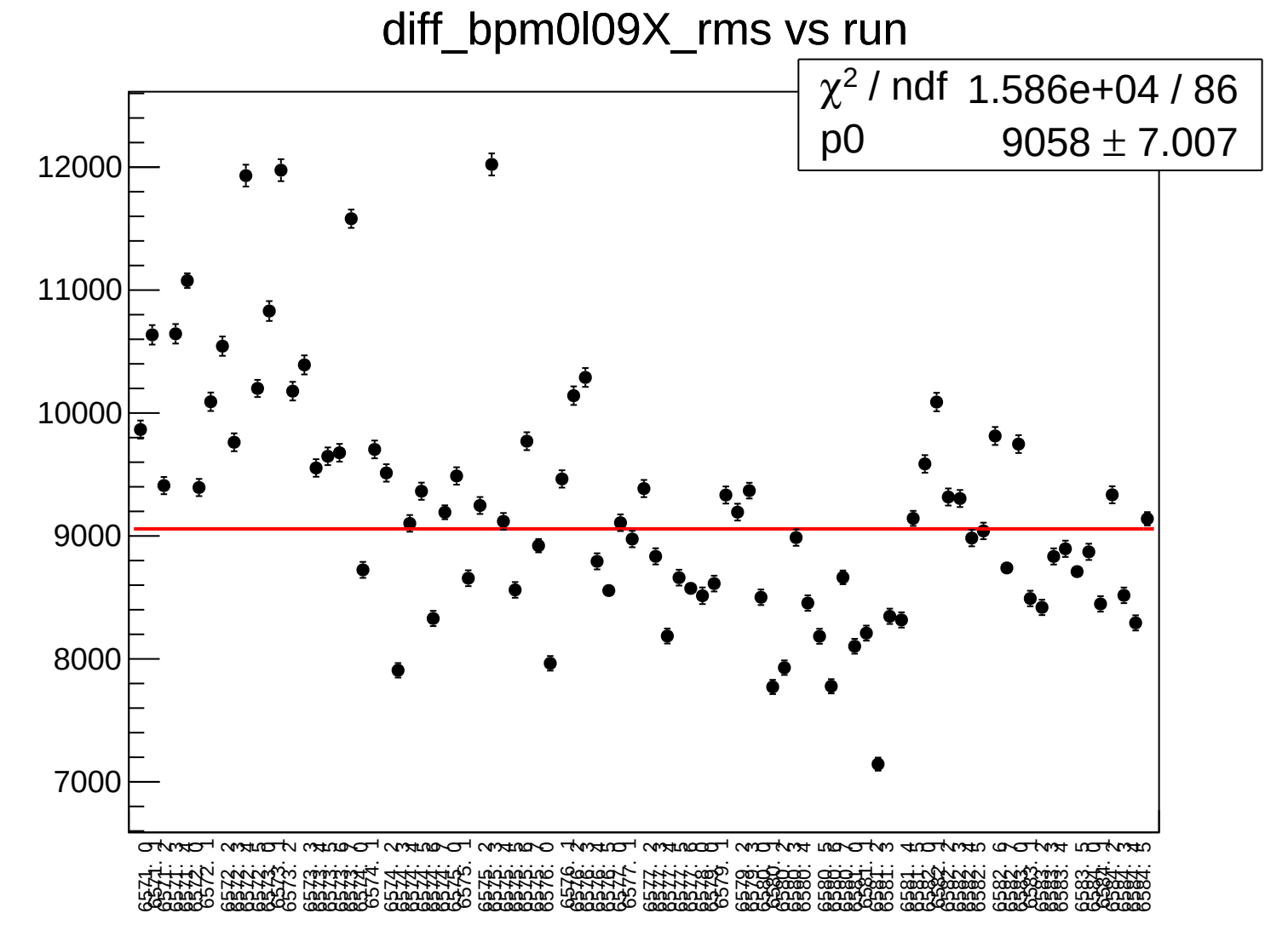

diff_bpm0l08Y_mean vs run
χ² / ndf 79.8 / 86
p0 0.8849 ± 1.13
pull
Entries 87
Mean 1429
Std Dev 0

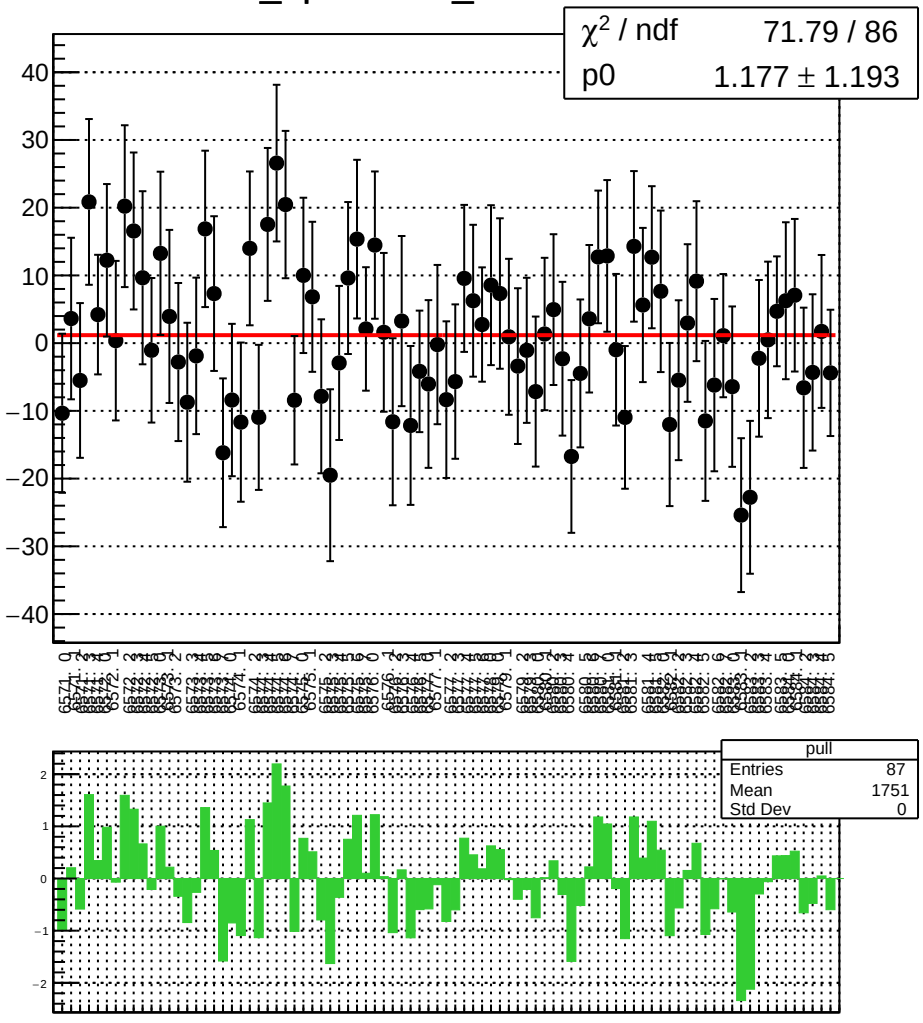

pull1D
Entries 87
Mean −0.003056
Std Dev 0.9577

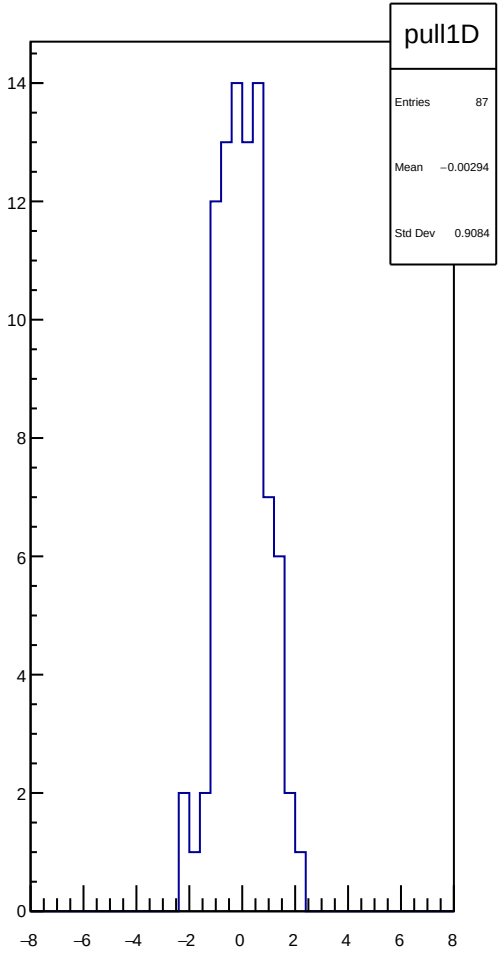

diff_bpm0l08Y_rms vs run
χ² / ndf 2544 / 86
p0 1037 ± 0.7989
1150
1100
1050
1000
950

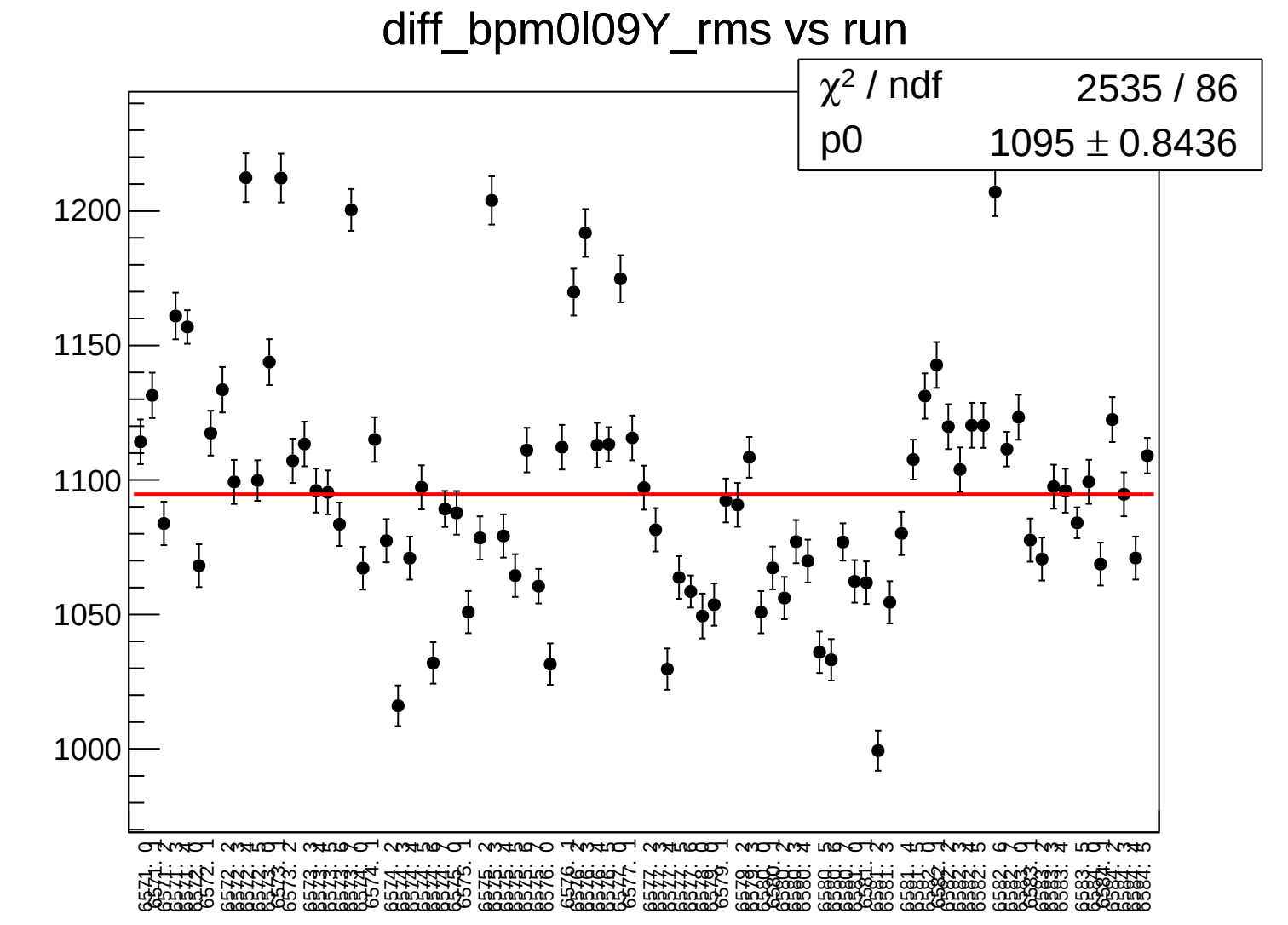

diff_bpm0l09X_mean vs run
χ² / ndf 83.76 / 86
p0 5.865 ± 9.91
pull
Entries 87
Mean 636.5
Std Dev 0

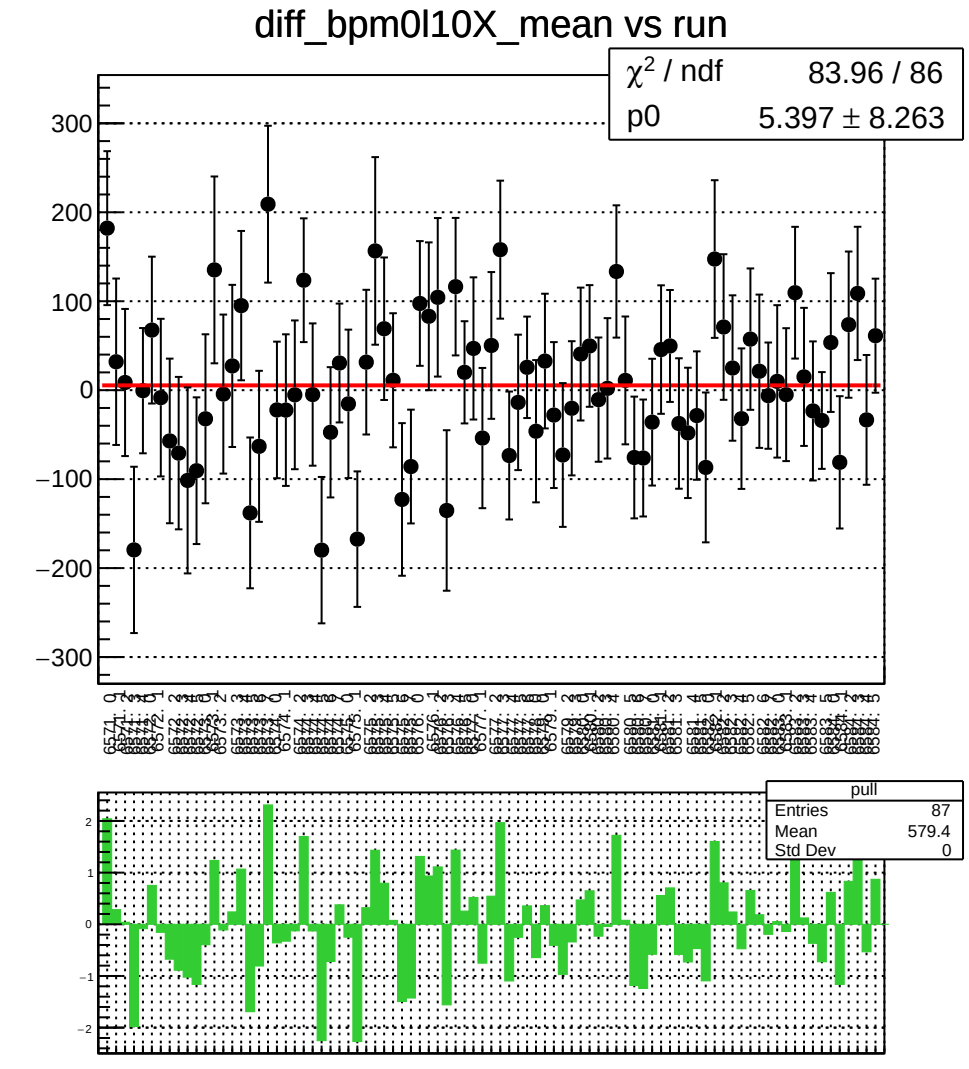

pull1D
Entries 87
Mean 0.003437
Std Dev 0.9812

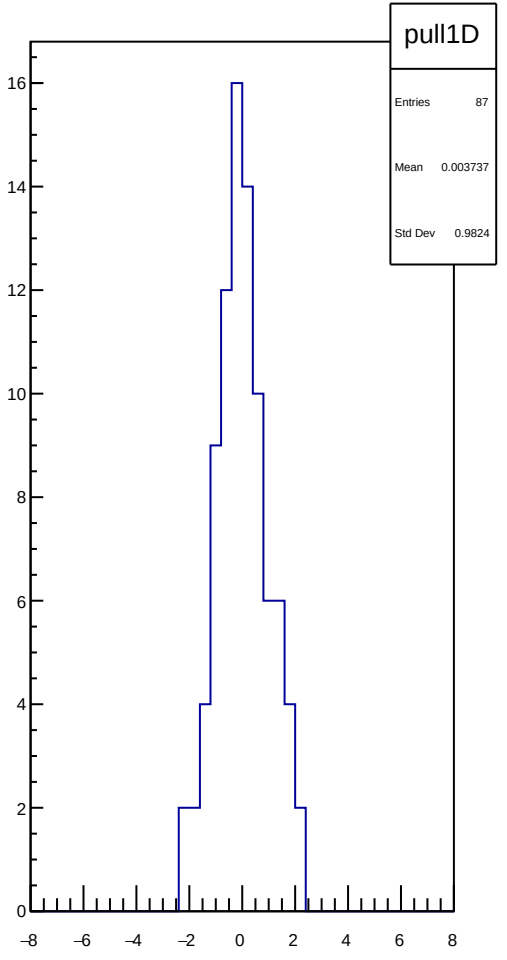

diff_bpm0l09X_rms vs run
χ² / ndf 1.586e+04 / 86
p0 9058 ± 7.007
12000
11000
10000
9000
8000
7000

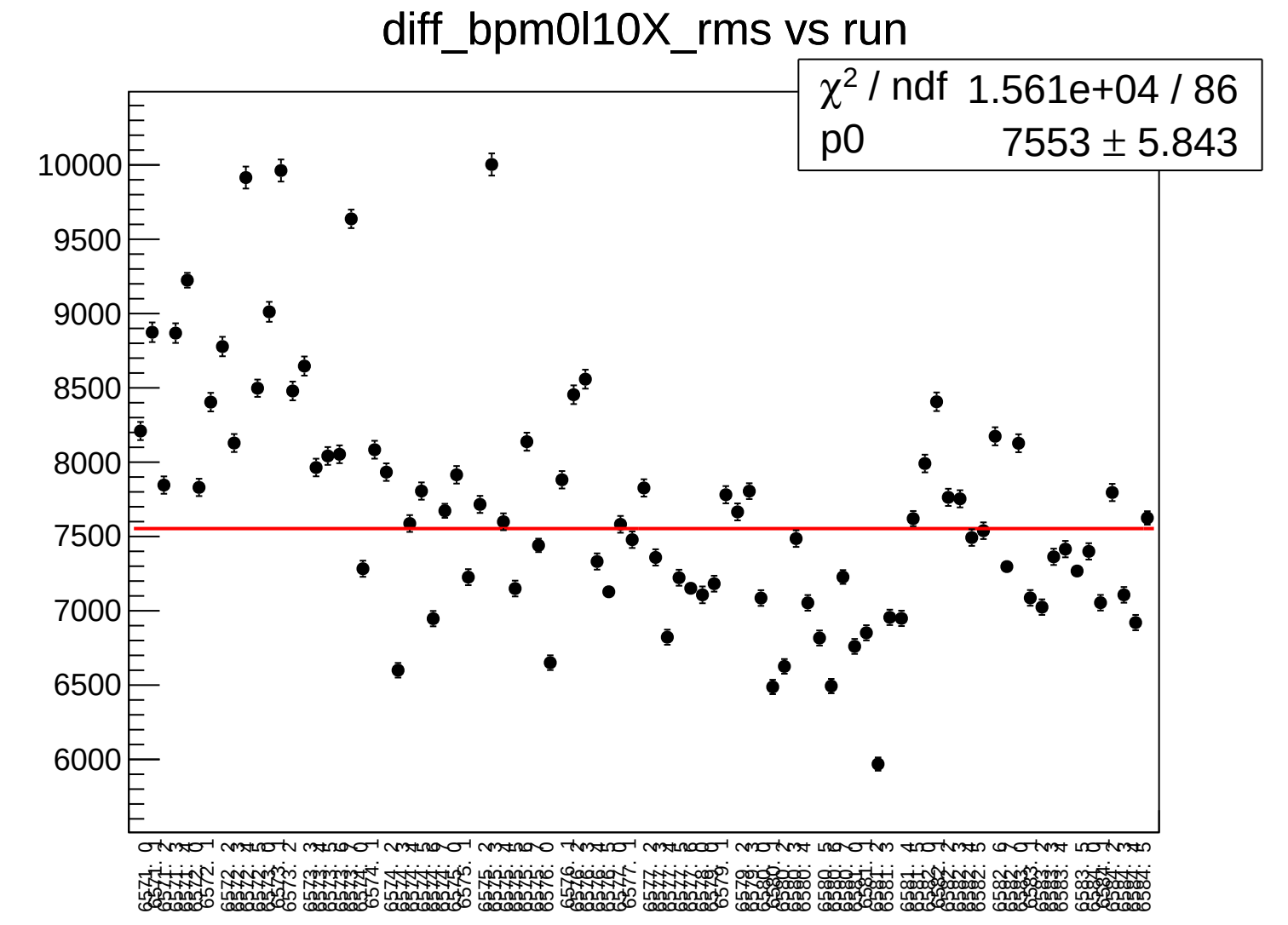

diff_bpm0l09Y_mean vs run
χ² / ndf 71.79 / 86
p0 1.177 ± 1.193
pull
Entries 87
Mean 1751
Std Dev 0

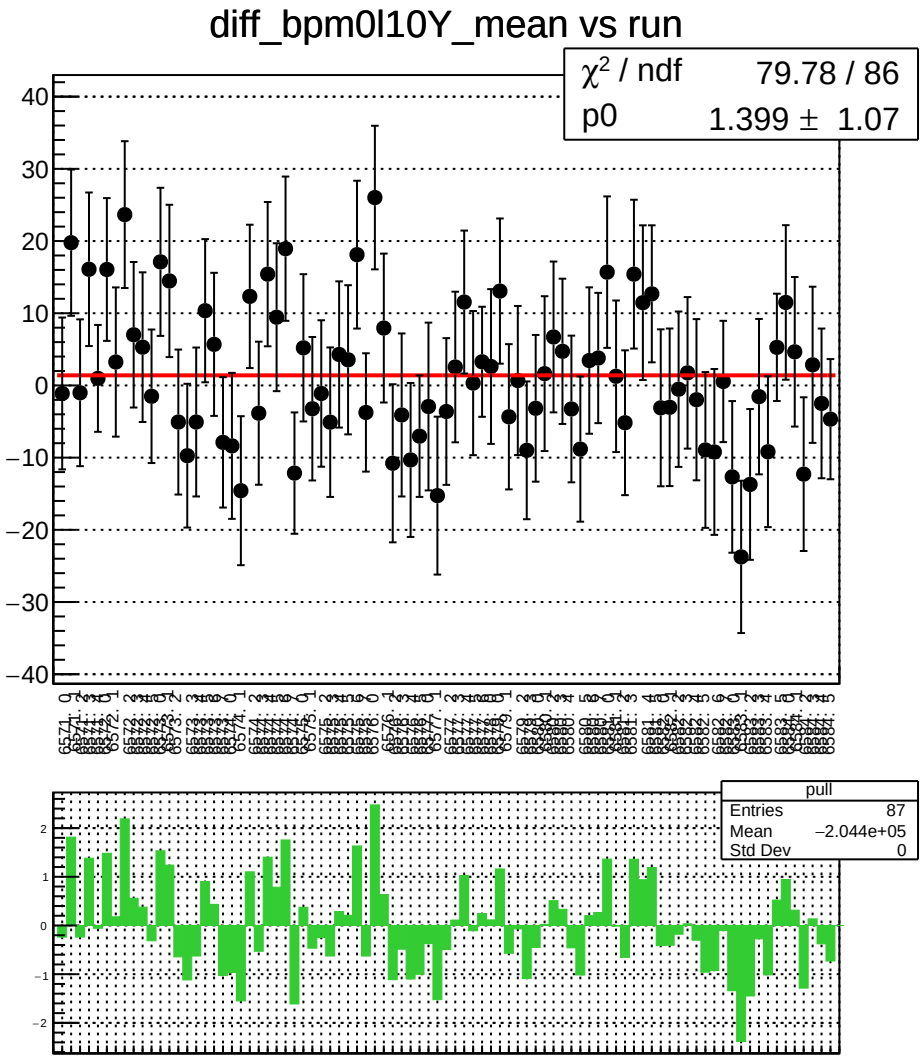

pull1D
Entries 87
Mean −0.00294
Std Dev 0.9084

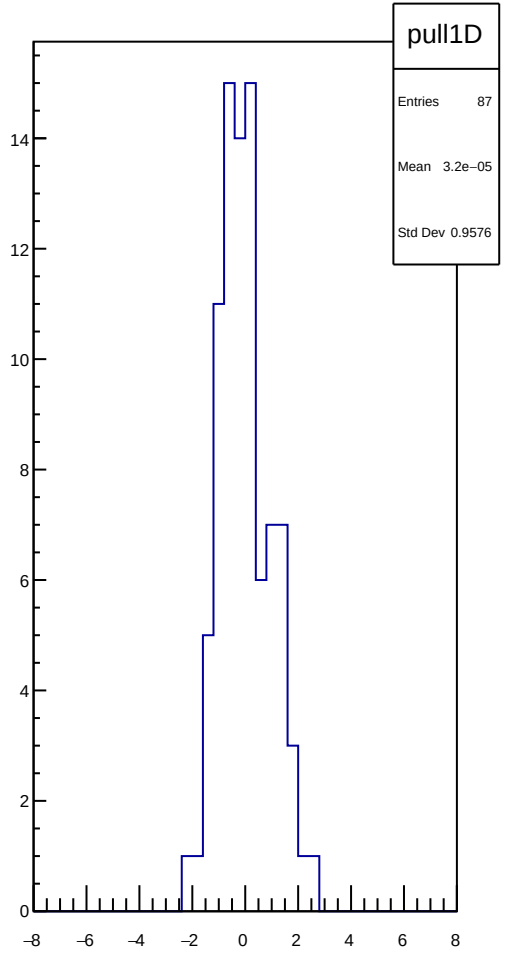

diff_bpm0l09Y_rms vs run
χ² / ndf 2535 / 86
p0 1095 ± 0.8436
1200
1150
1100
1050
1000

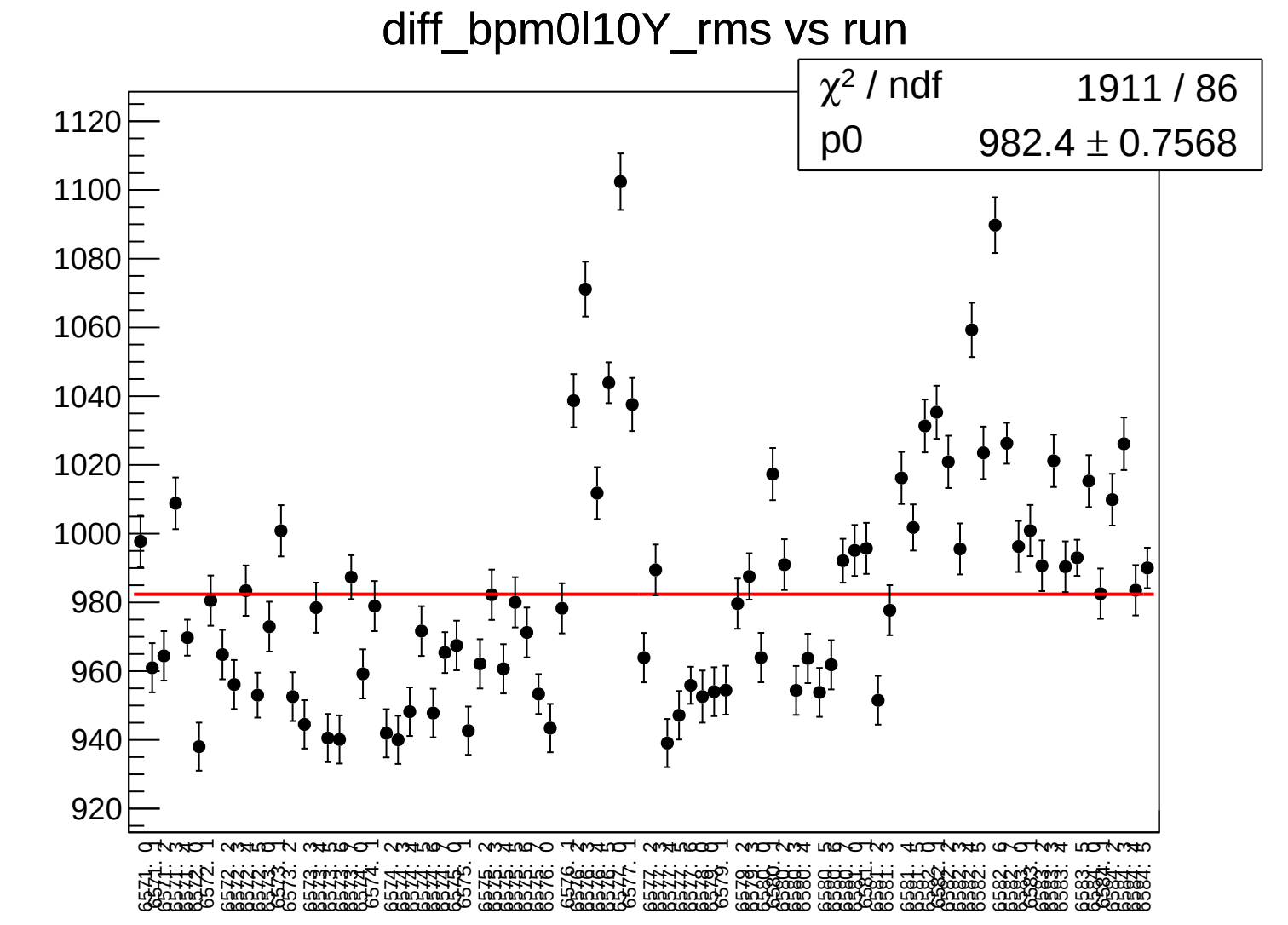

diff_bpm0l10X_mean vs run
χ² / ndf 83.96 / 86
p0 5.397 ± 8.263
pull
Entries 87
Mean 579.4
Std Dev 0

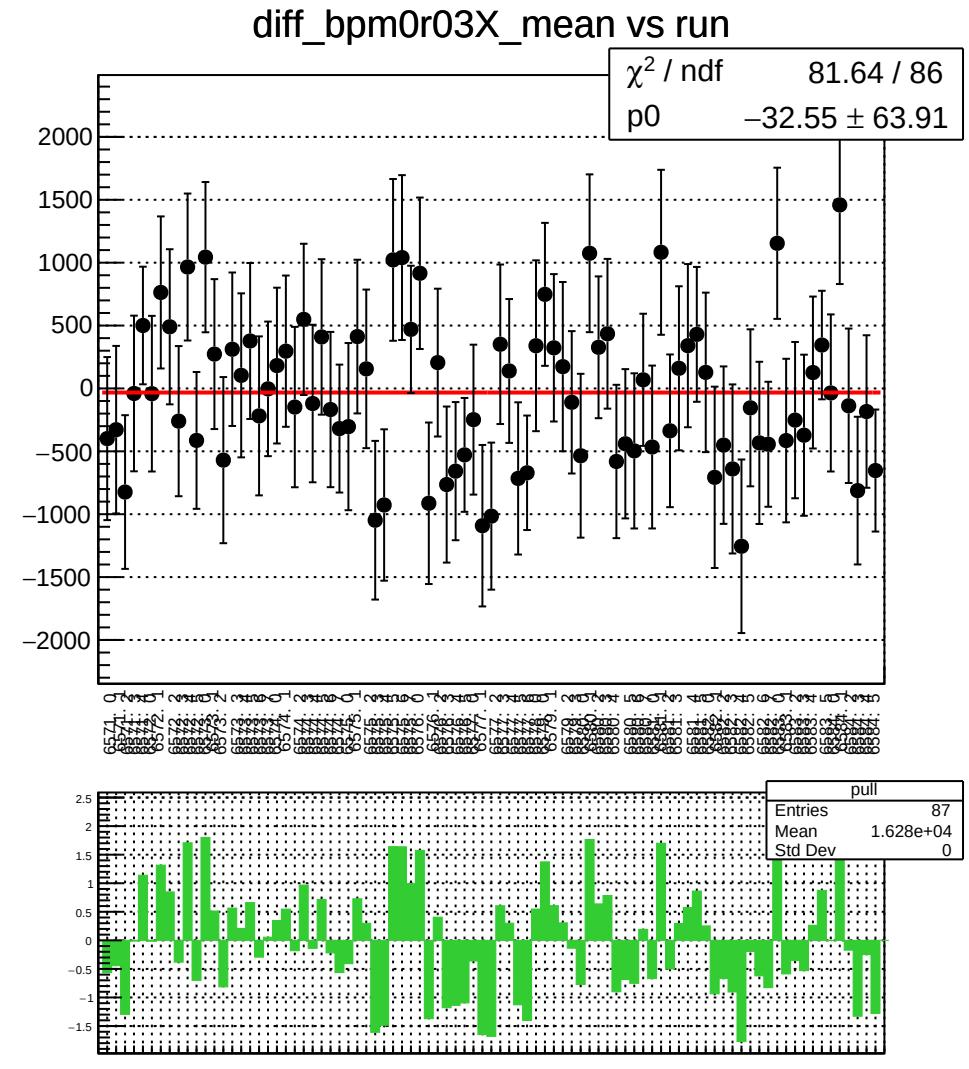

pull1D
Entries 87
Mean 0.003737
Std Dev 0.9824

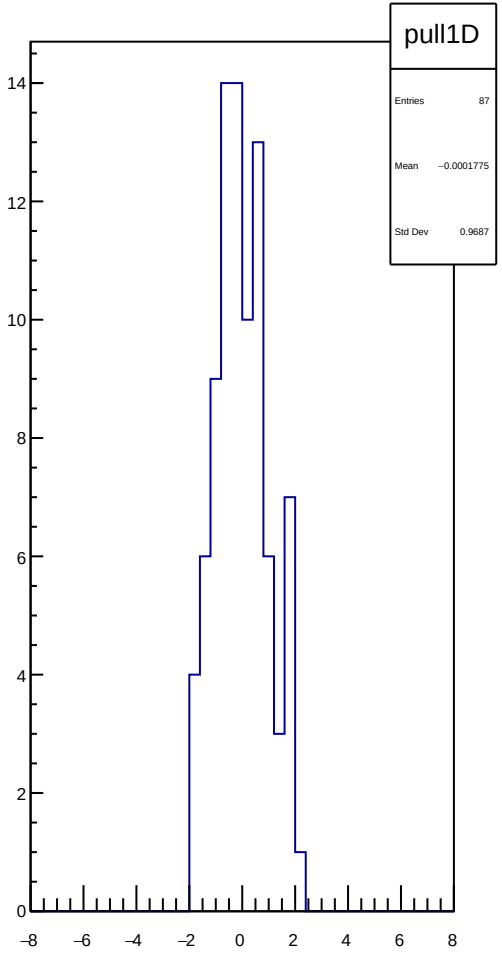

diff_bpm0l10X_rms vs run
χ² / ndf 1.561e+04 / 86
p0 7553 ± 5.843
10000
9500
9000
8500
8000
7500
7000
6500
6000

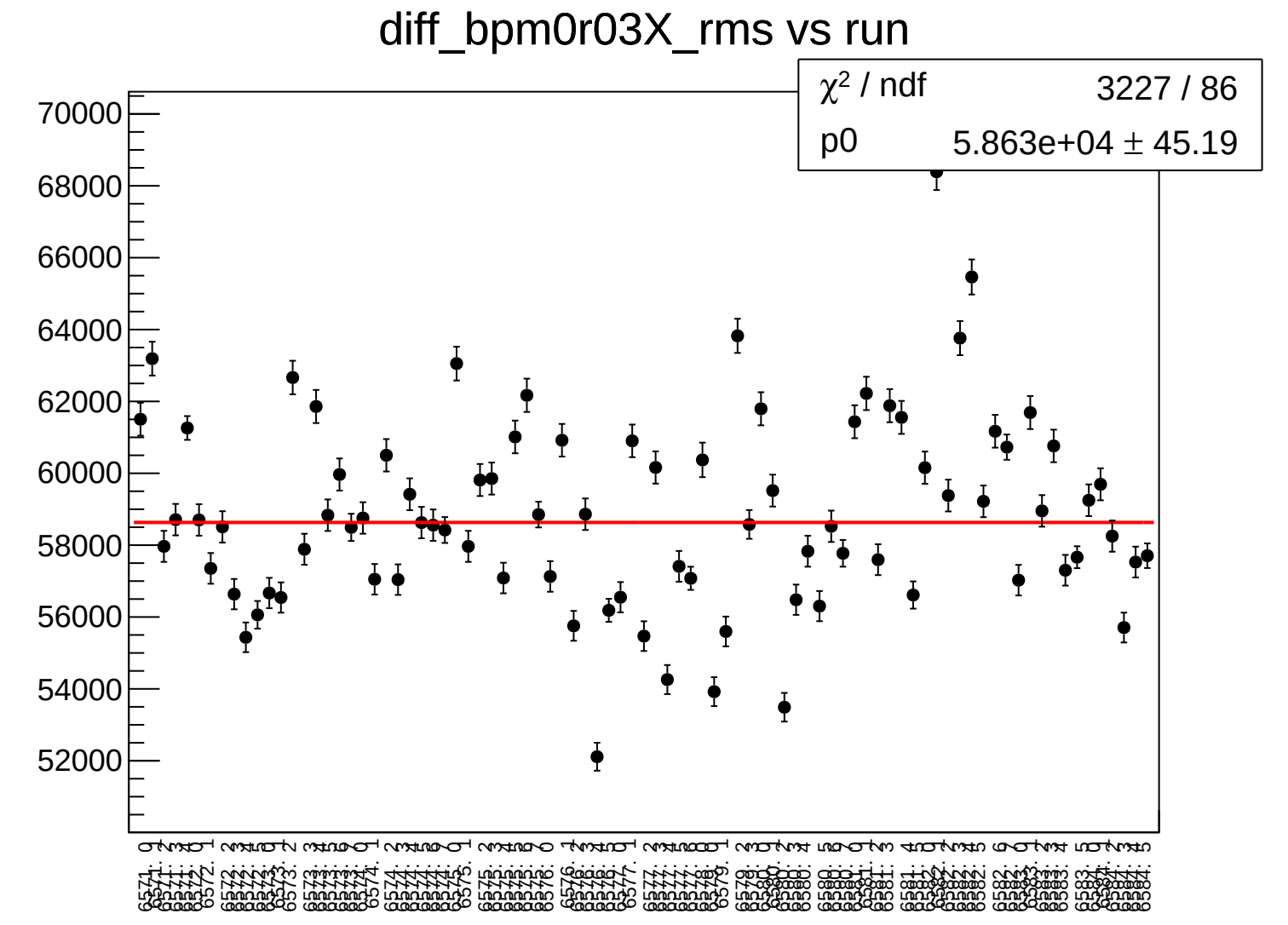

diff_bpm0l10Y_mean vs run
χ² / ndf 79.78 / 86
p0 1.399 ± 1.07
pull
Entries 87
Mean −2.044e+05
Std Dev 0

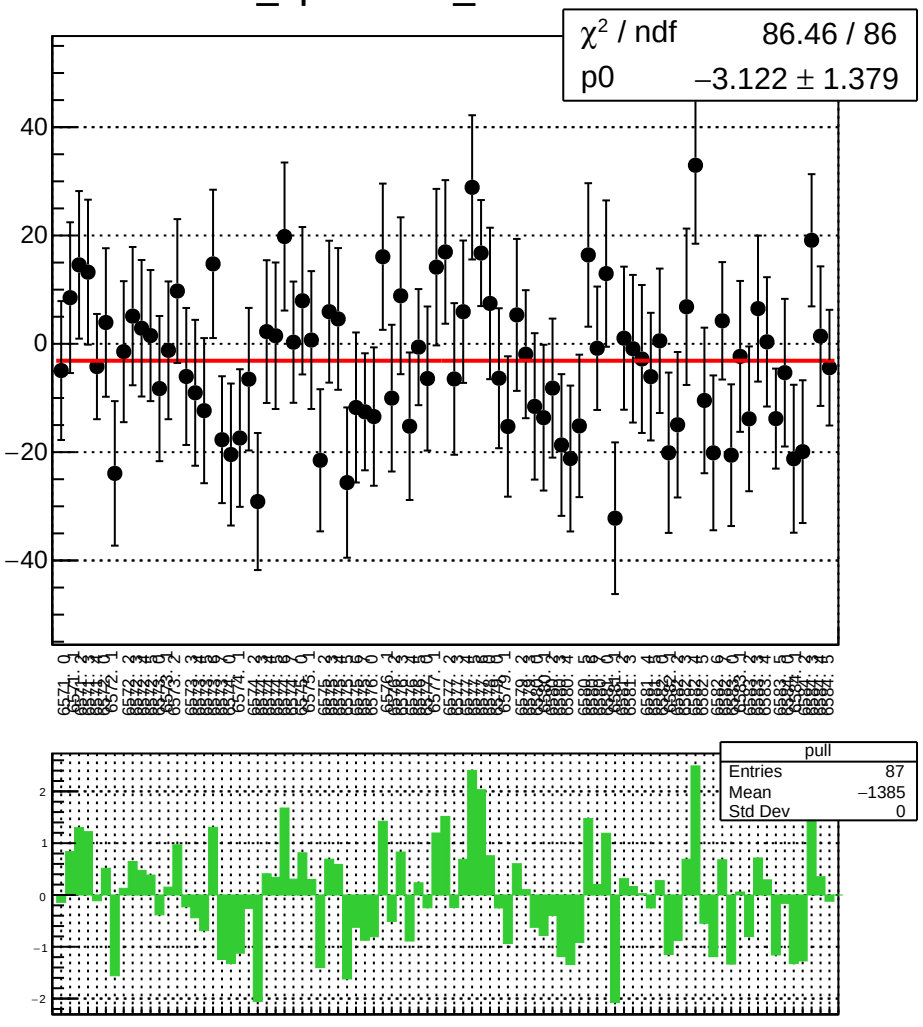

pull1D
Entries 87
Mean 3.2e−05
Std Dev 0.9576

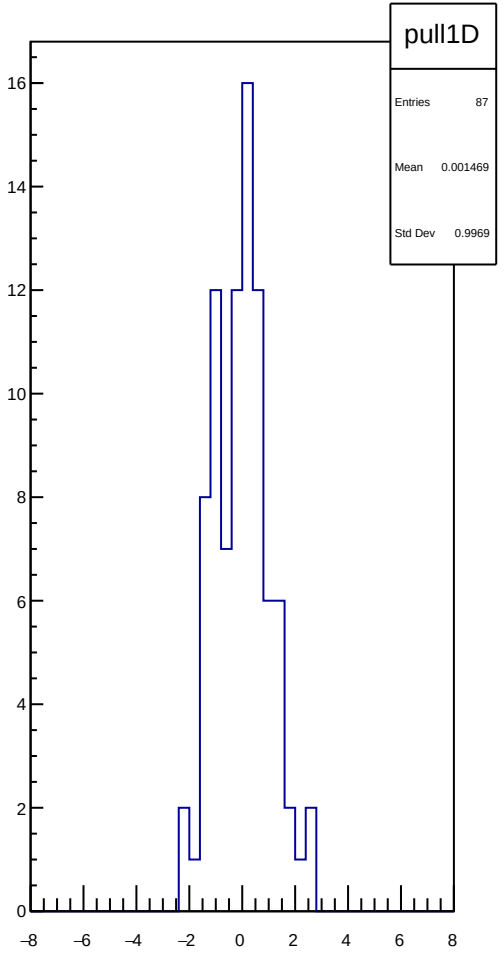

diff_bpm0l10Y_rms vs run
χ² / ndf 1911 / 86
p0 982.4 ± 0.7568
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

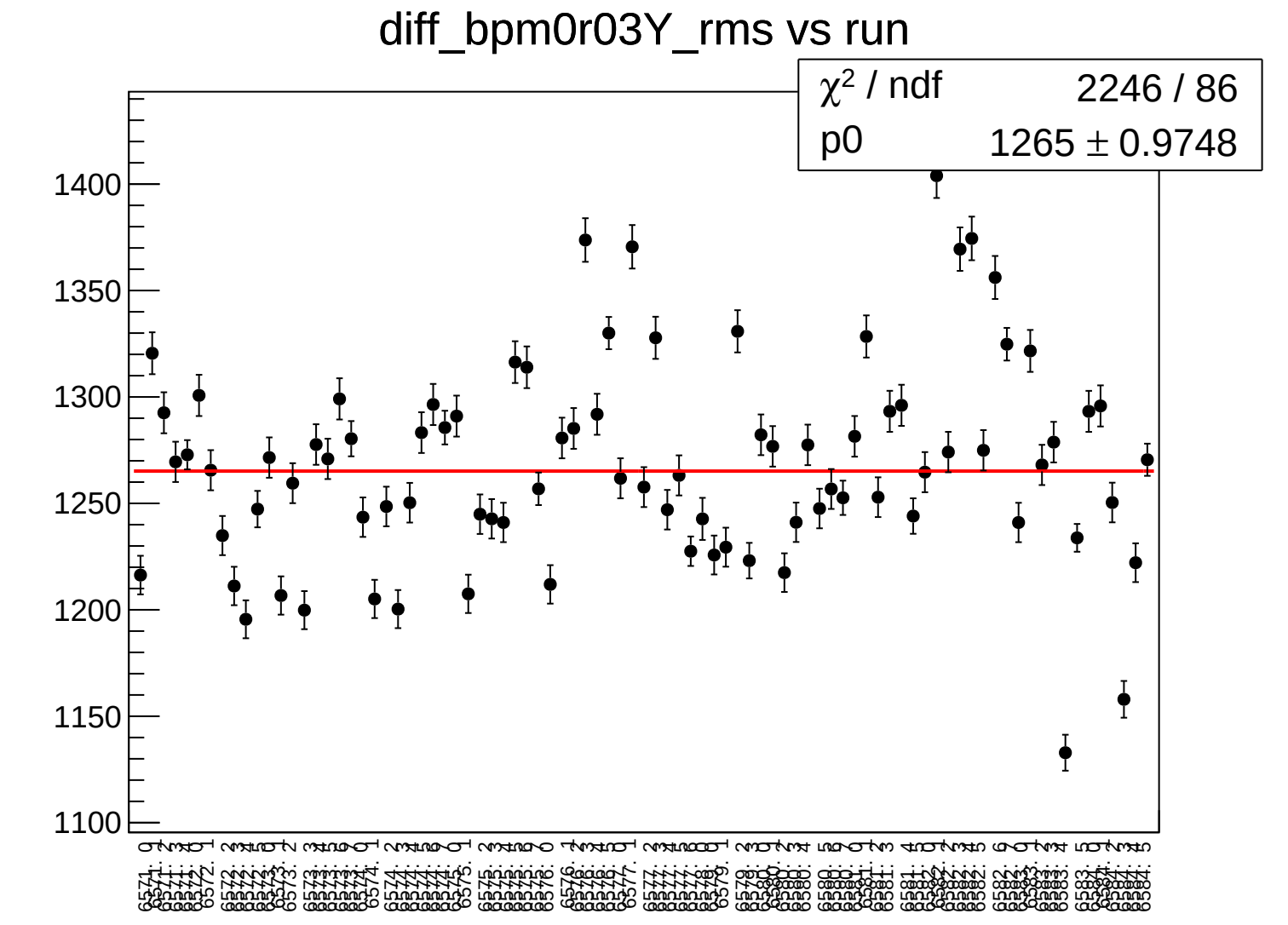

diff_bpm0r03X_mean vs run
χ² / ndf 81.64 / 86
p0 −32.55 ± 63.91
pull
Entries 87
Mean 1.628e+04
Std Dev 0

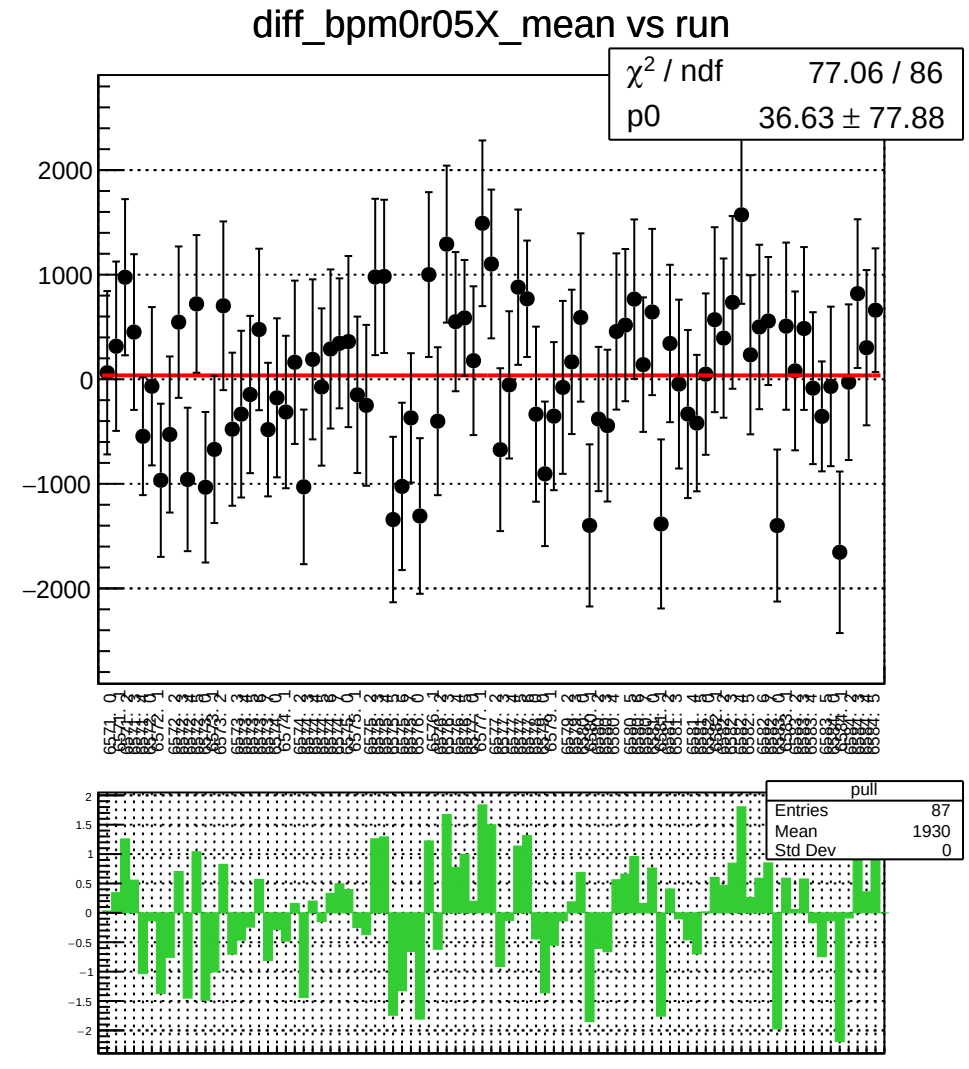

pull1D
Entries 87
Mean −0.0001775
Std Dev 0.9687

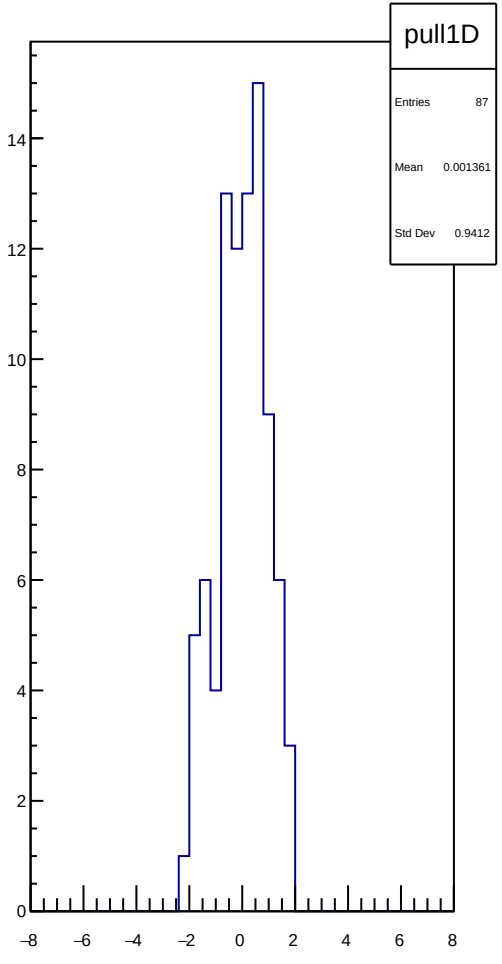

diff_bpm0r03X_rms vs run
χ² / ndf 3227 / 86
p0 5.863e+04 ± 45.19
70000
68000
66000
64000
62000
60000
58000
56000
54000
52000

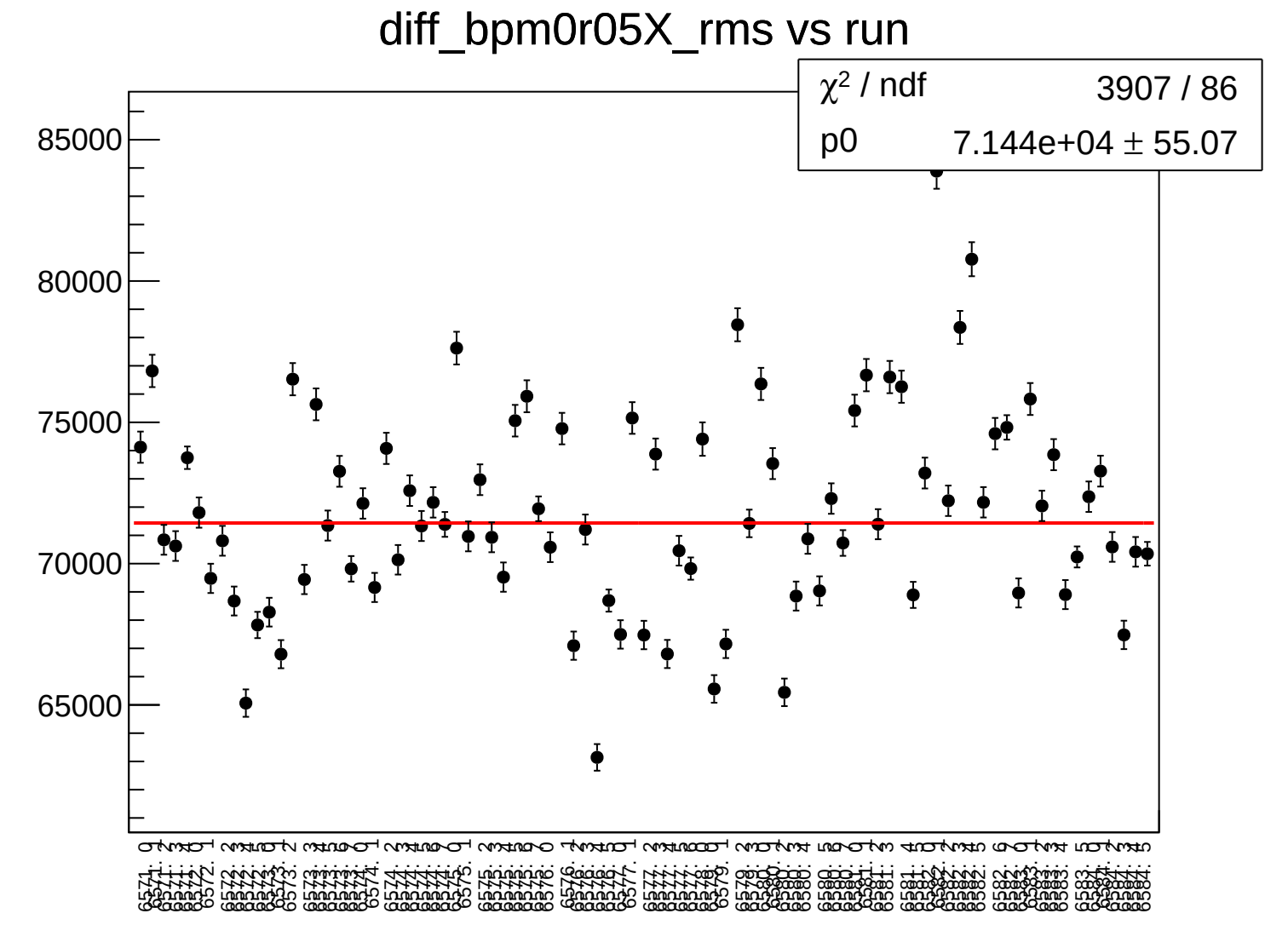

diff_bpm0r03Y_mean vs run
χ² / ndf 86.46 / 86
p0 −3.122 ± 1.379
40
20
0
−20
−40
pull
Entries 87
Mean −1385
Std Dev 0
2
1
0
−1
−2

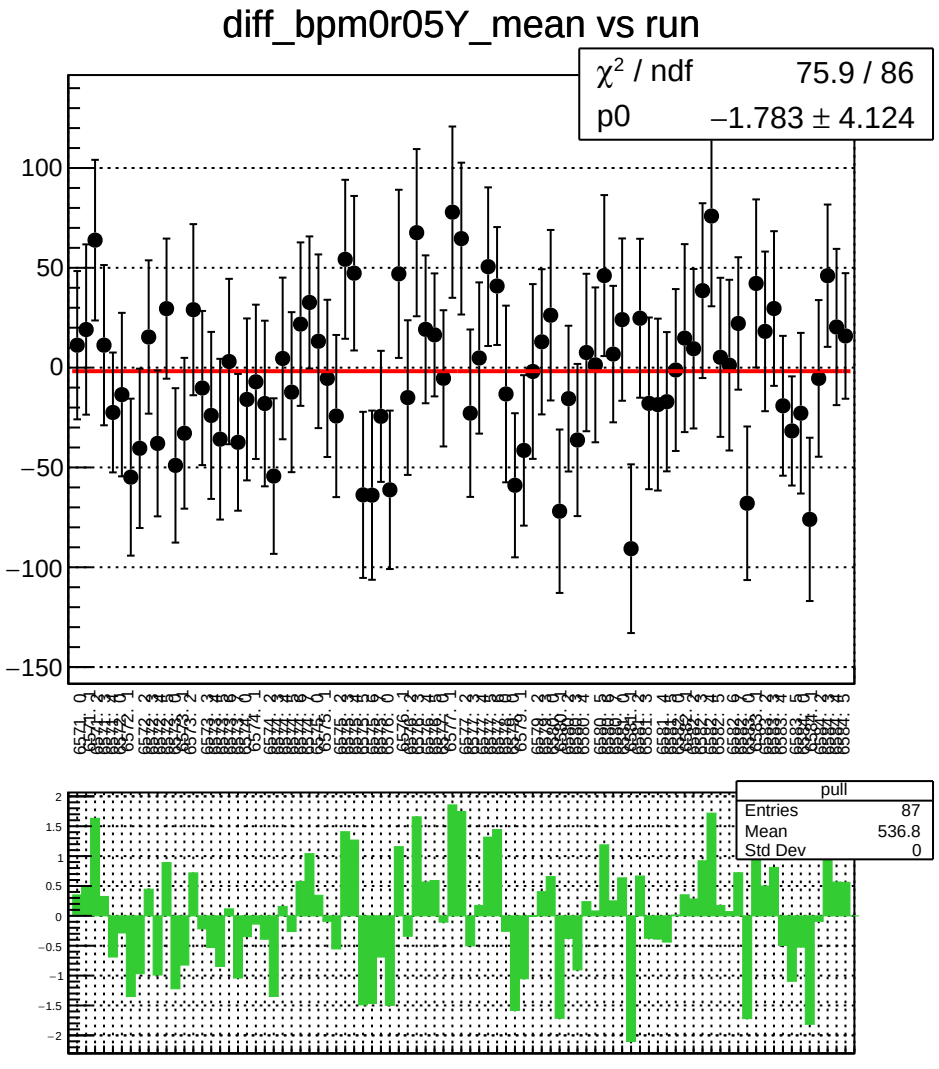

pull1D
Entries 87
Mean 0.001469
Std Dev 0.9969
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

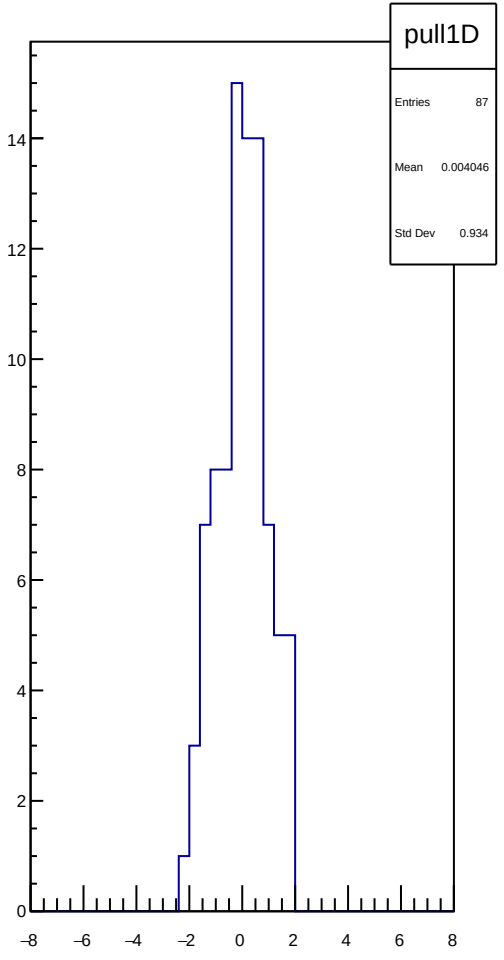

diff_bpm0r03Y_rms vs run
χ² / ndf 2246 / 86
p0 1265 ± 0.9748
1400
1350
1300
1250
1200
1150
1100

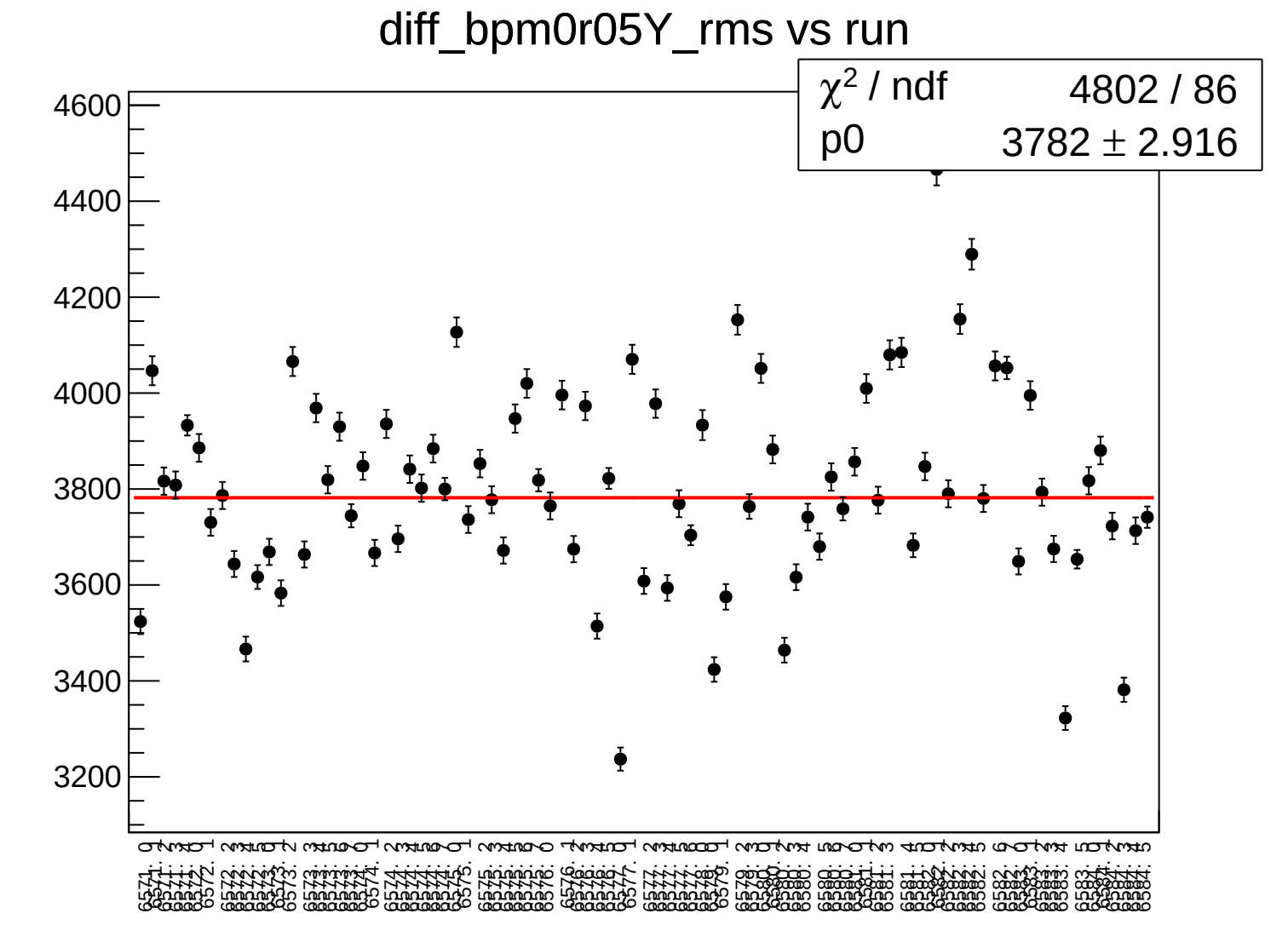

diff_bpm0r05X_mean vs run
χ² / ndf 77.06 / 86
p0 36.63 ± 77.88
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 1930
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

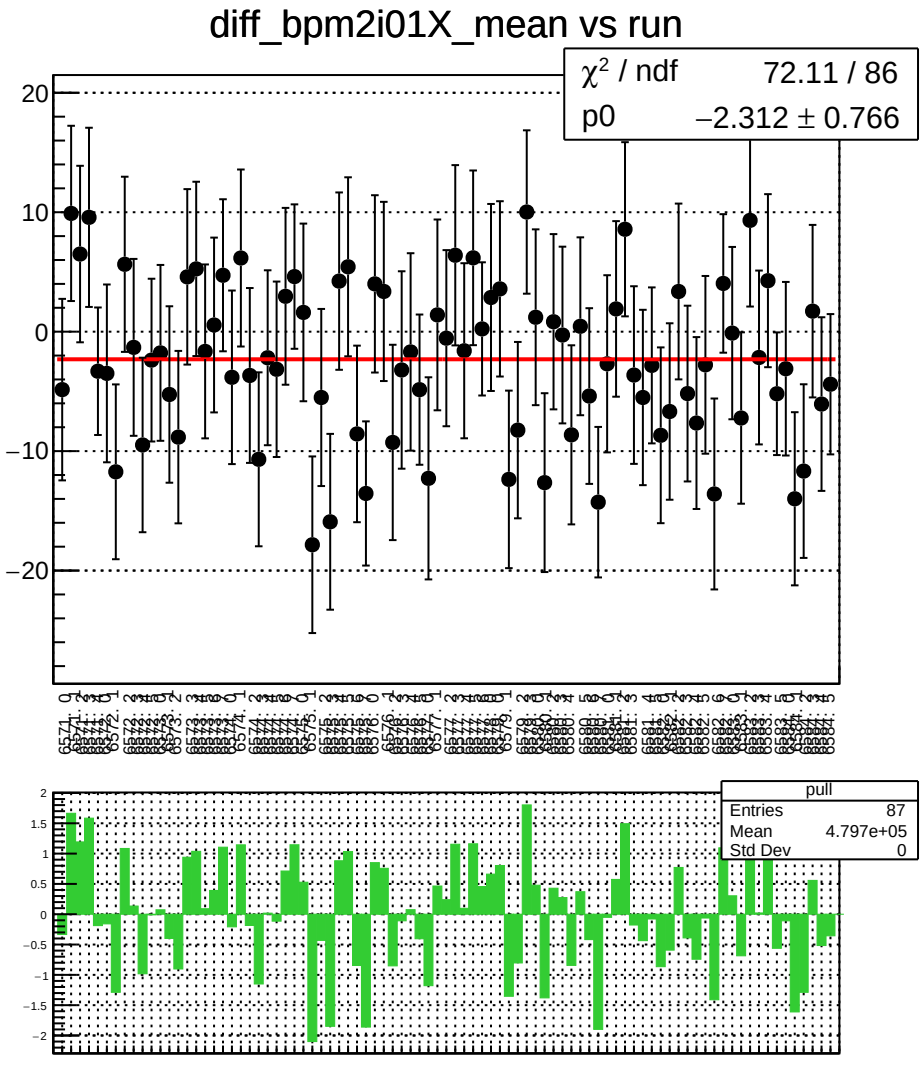

pull1D
Entries 87
Mean 0.001361
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

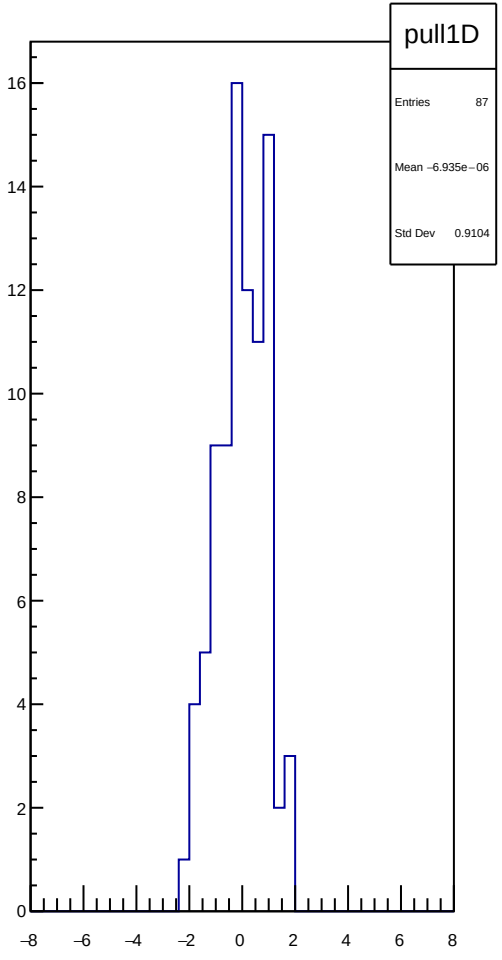

diff_bpm0r05X_rms vs run
χ² / ndf 3907 / 86
p0 7.144e+04 ± 55.07
85000
80000
75000
70000
65000

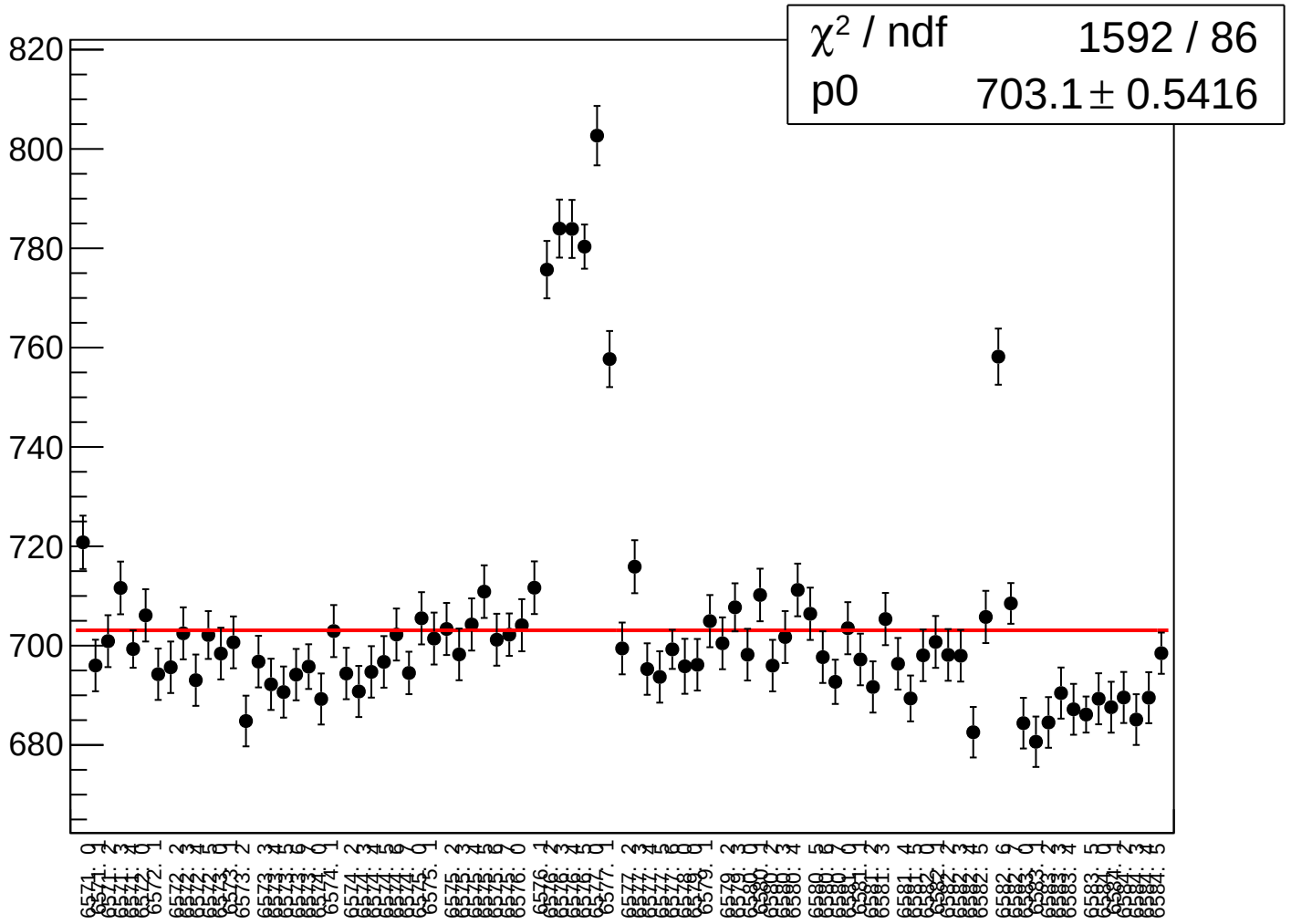

diff_bpm0r05Y_mean vs run
χ² / ndf 75.9 / 86
p0 −1.783 ± 4.124
pull
Entries 87
Mean 536.8
Std Dev 0

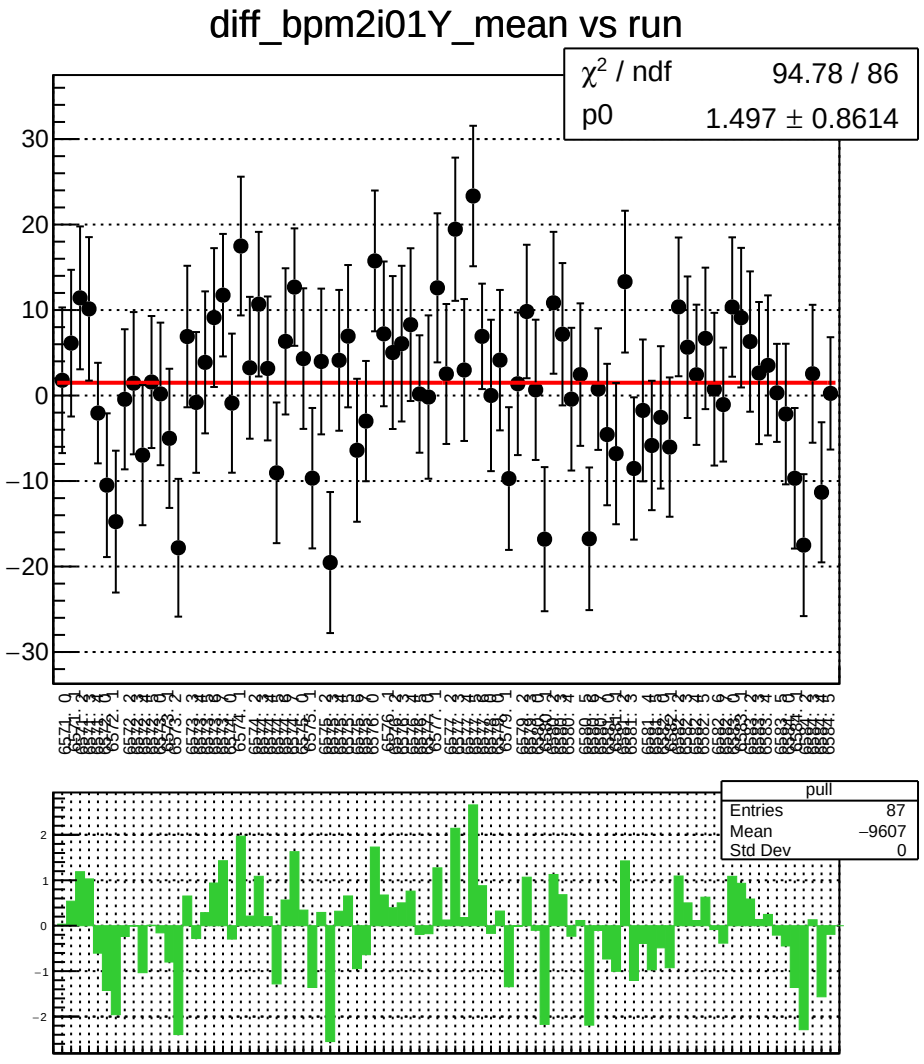

pull1D
Entries 87
Mean 0.004046
Std Dev 0.934

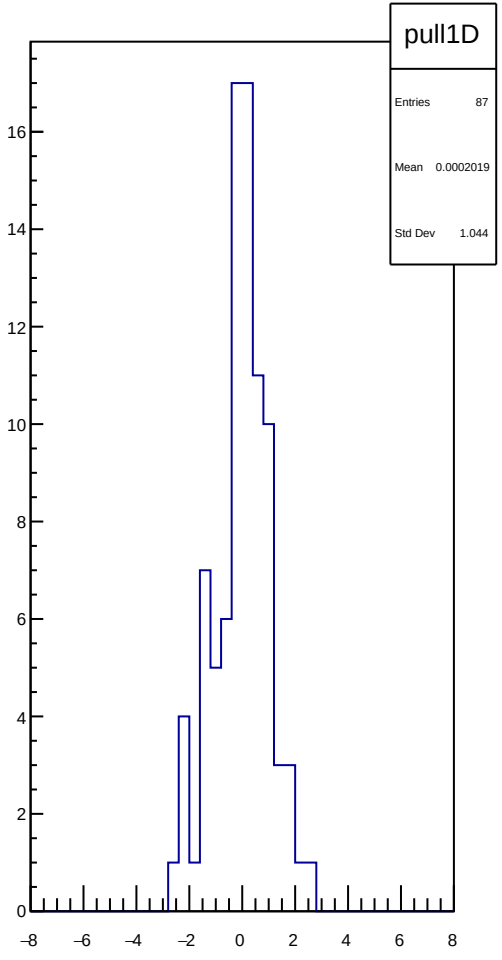

diff_bpm0r05Y_rms vs run
χ² / ndf 4802 / 86
p0 3782 ± 2.916
4600
4400
4200
4000
3800
3600
3400
3200

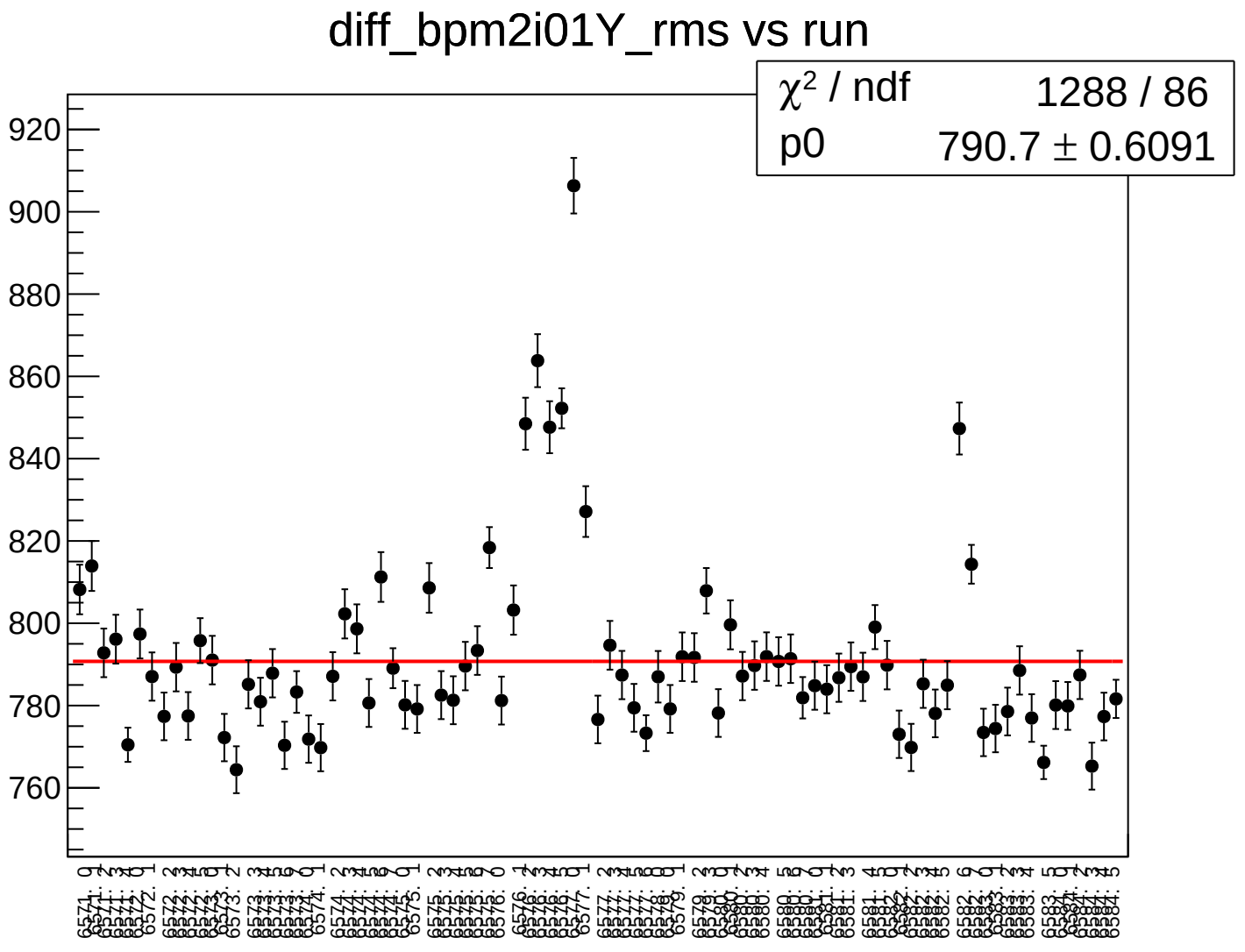

diff_bpm2i01X_mean vs run
χ² / ndf 72.11 / 86
p0 −2.312 ± 0.766
pull
Entries 87
Mean 4.797e+05
Std Dev 0

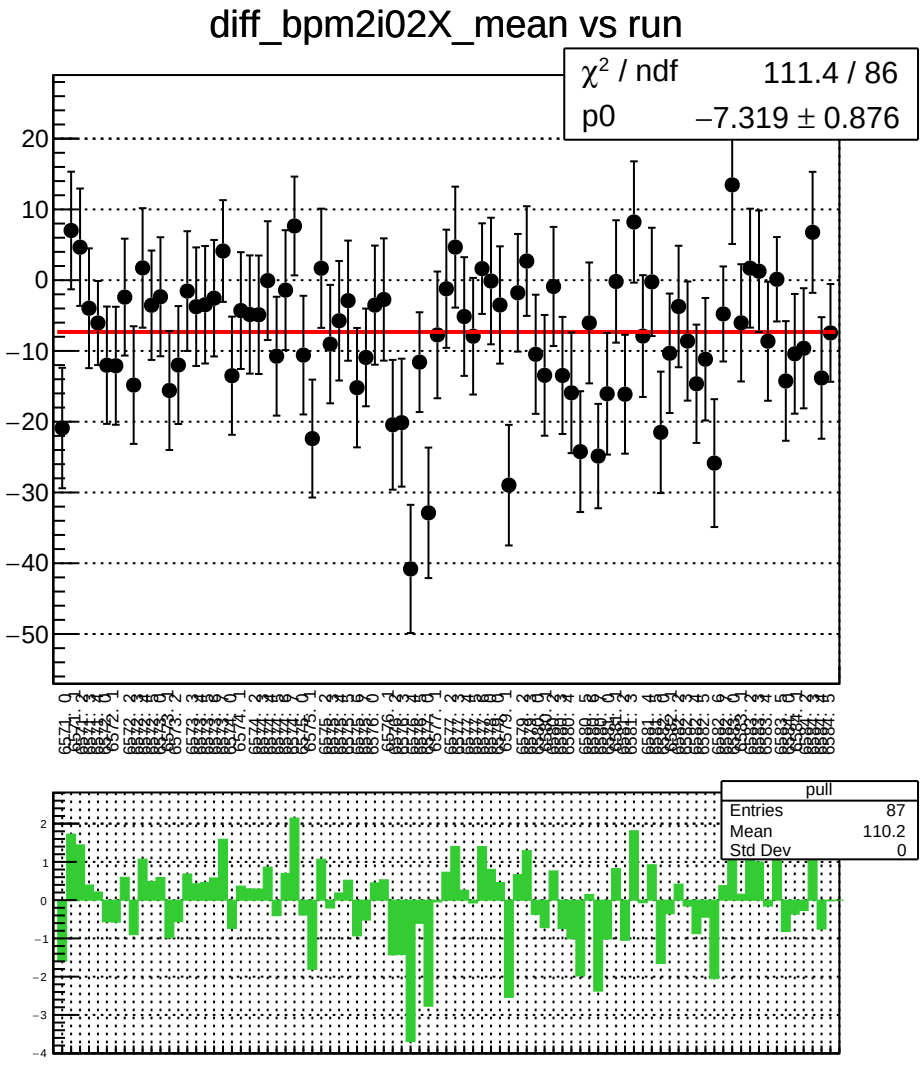

pull1D
Entries 87
Mean −6.935e−06
Std Dev 0.9104

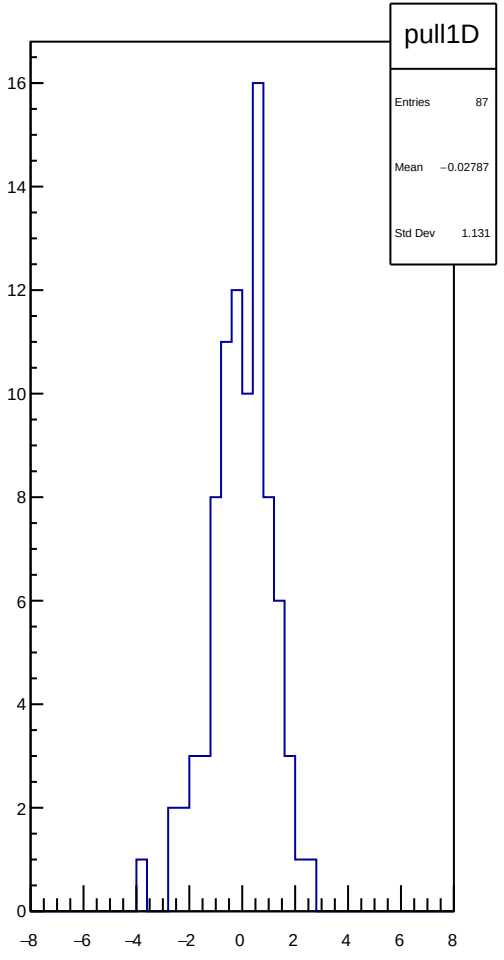

diff_bpm2i01X_rms vs run
χ² / ndf 1592 / 86
p0 703.1 ± 0.5416
820
800
780
760
740
720
700
680

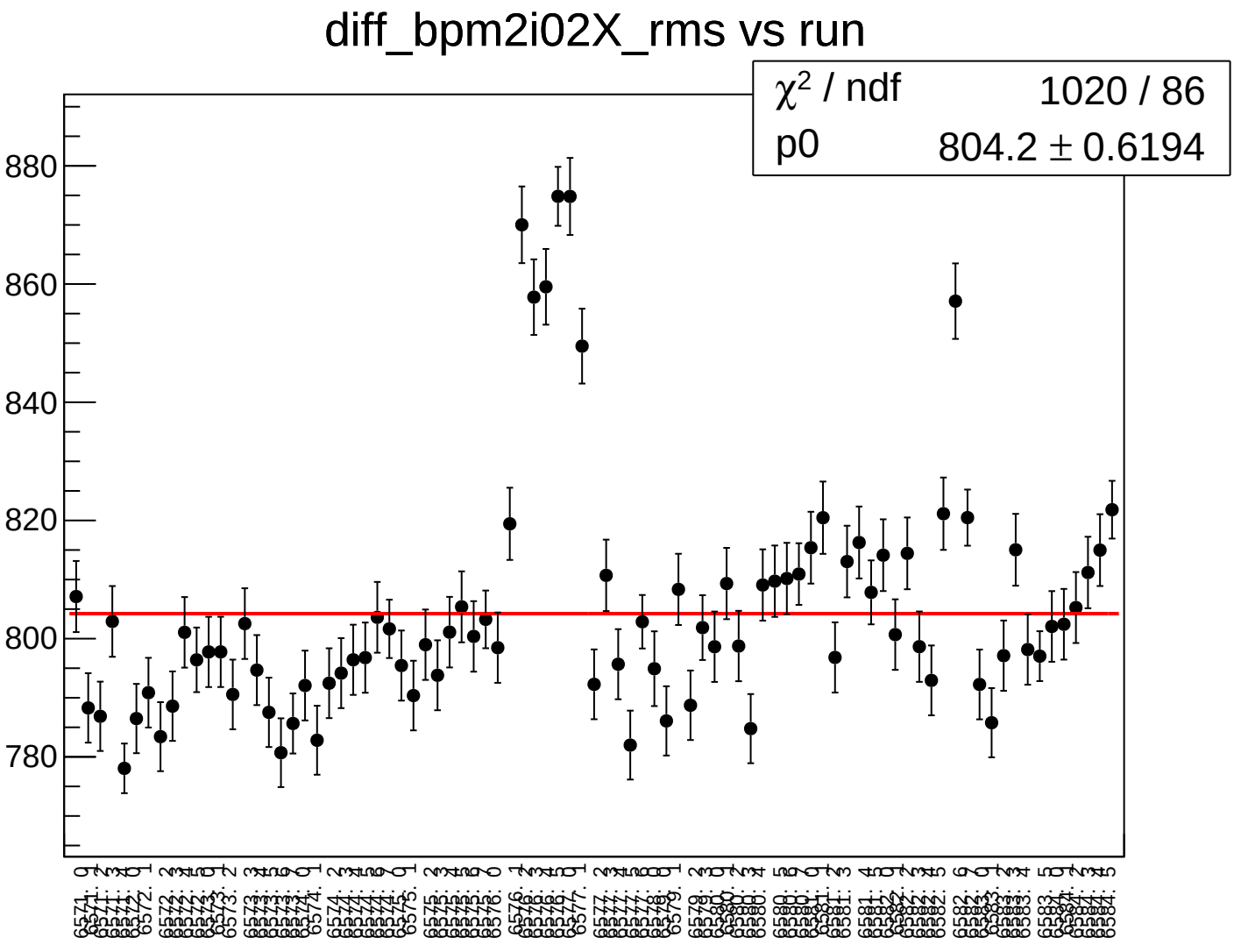

diff_bpm2i01Y_mean vs run
χ² / ndf 94.78 / 86
p0 1.497 ± 0.8614
pull
Entries 87
Mean −9607
Std Dev 0

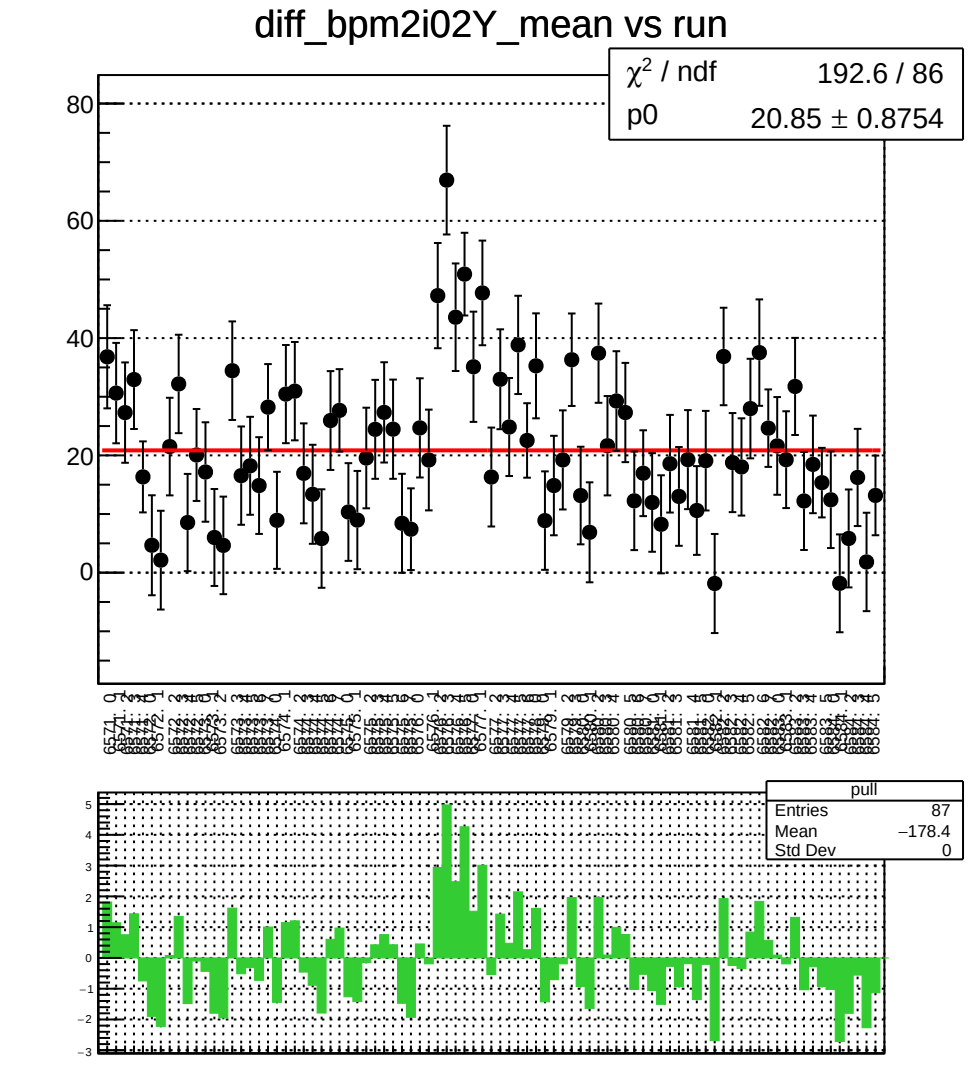

pull1D
Entries 87
Mean 0.0002019
Std Dev 1.044

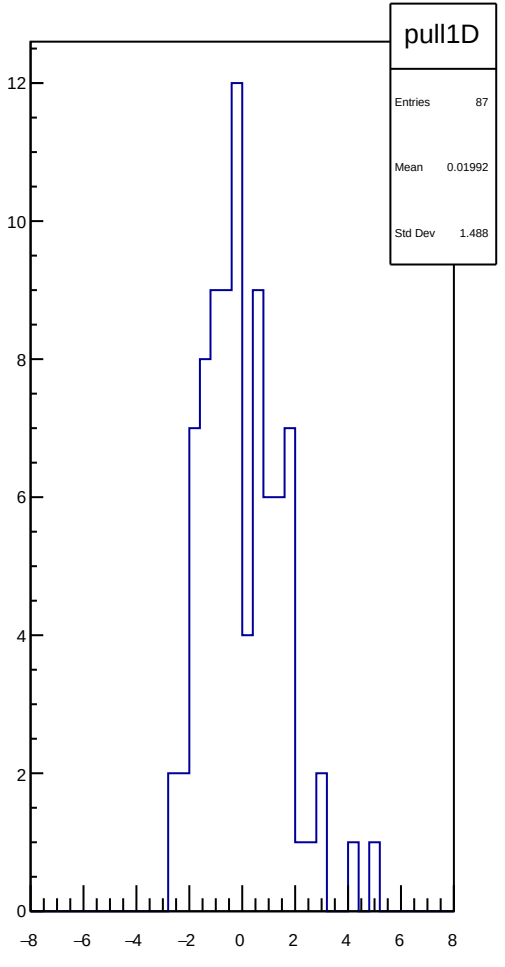

diff_bpm2i01Y_rms vs run
χ² / ndf 1288 / 86
p0 790.7 ± 0.6091
920
900
880
860
840
820
800
780
760

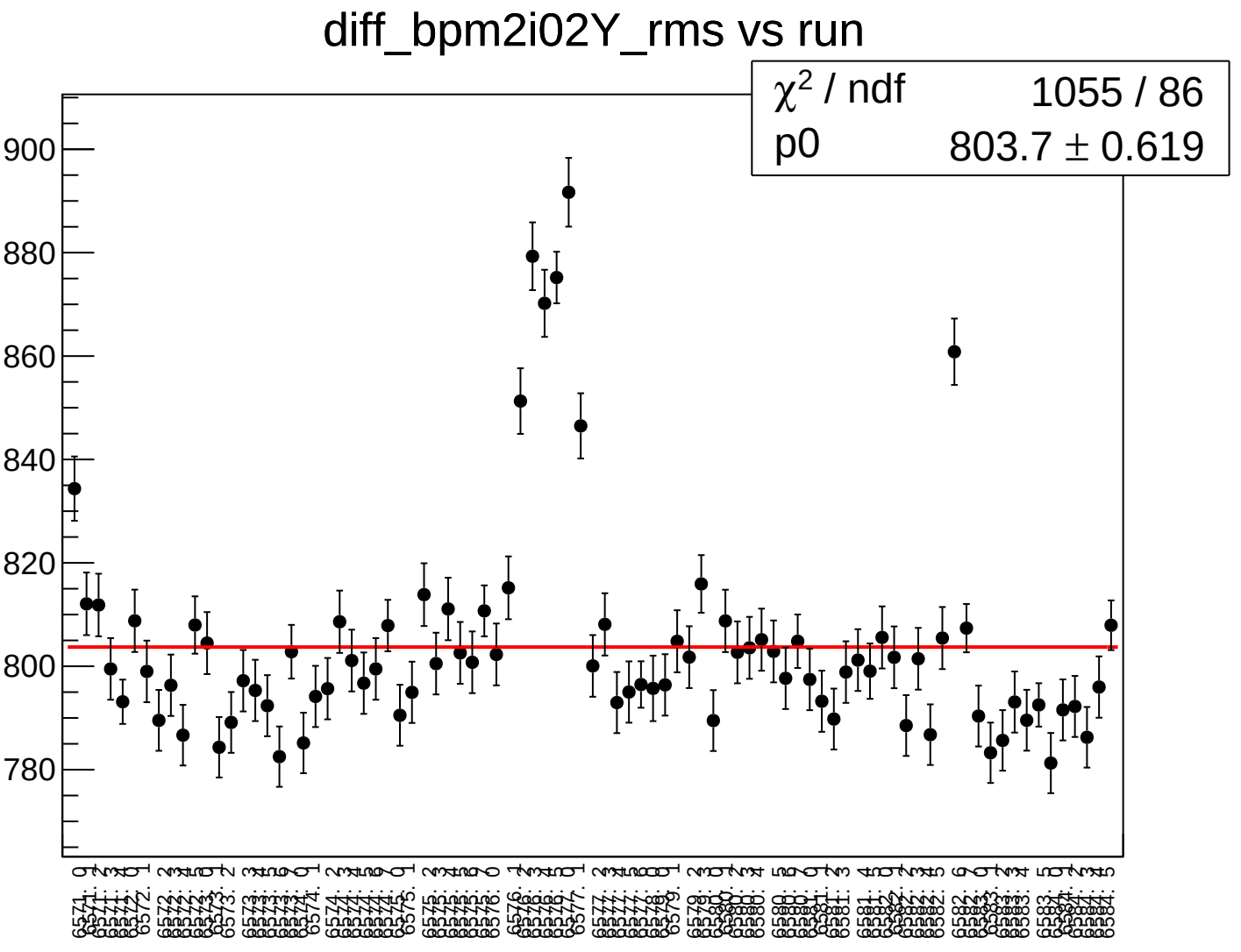

diff_bpm2i02X_mean vs run
χ² / ndf 111.4 / 86
p0 −7.319 ± 0.876
pull
Entries 87
Mean 110.2
Std Dev 0

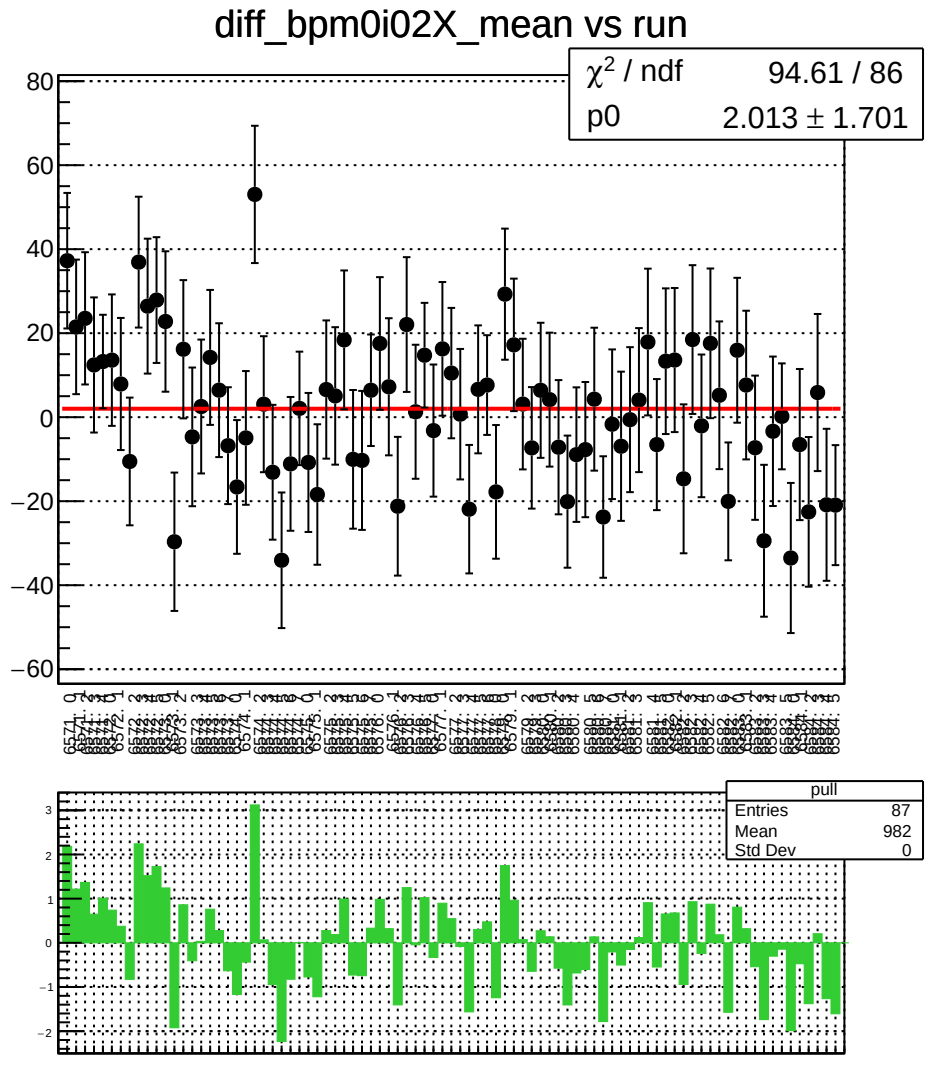

pull1D
Entries 87
Mean −0.02787
Std Dev 1.131

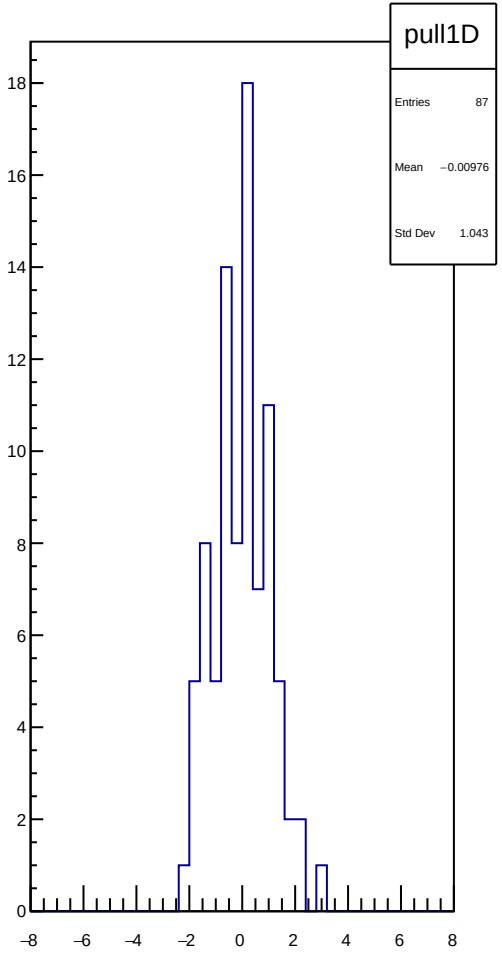

diff_bpm2i02X_rms vs run
χ² / ndf 1020 / 86
p0 804.2 ± 0.6194
880
860
840
820
800
780

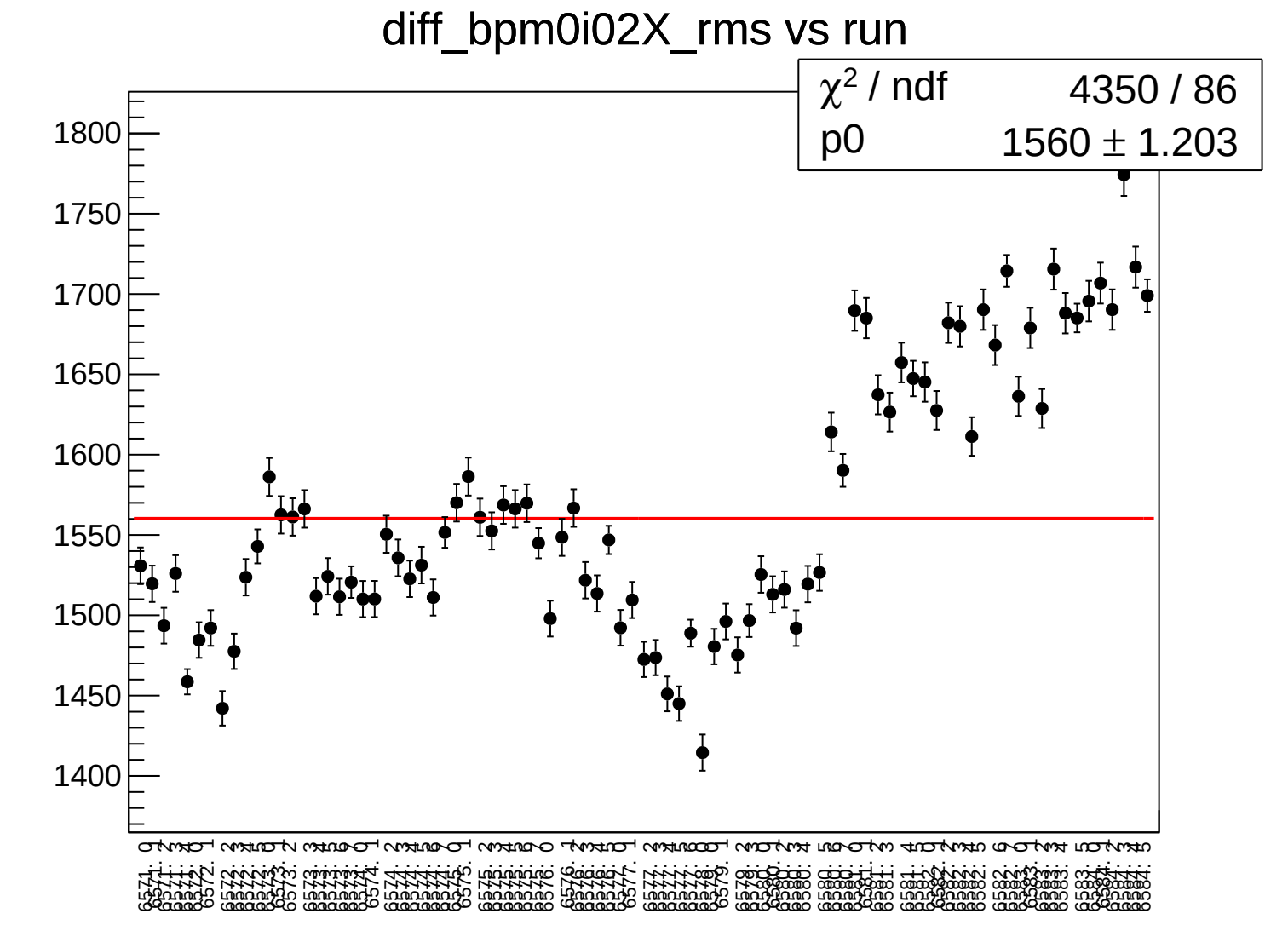

diff_bpm2i02Y_mean vs run
χ² / ndf 192.6 / 86
p0 20.85 ± 0.8754
pull
Entries 87
Mean −178.4
Std Dev 0

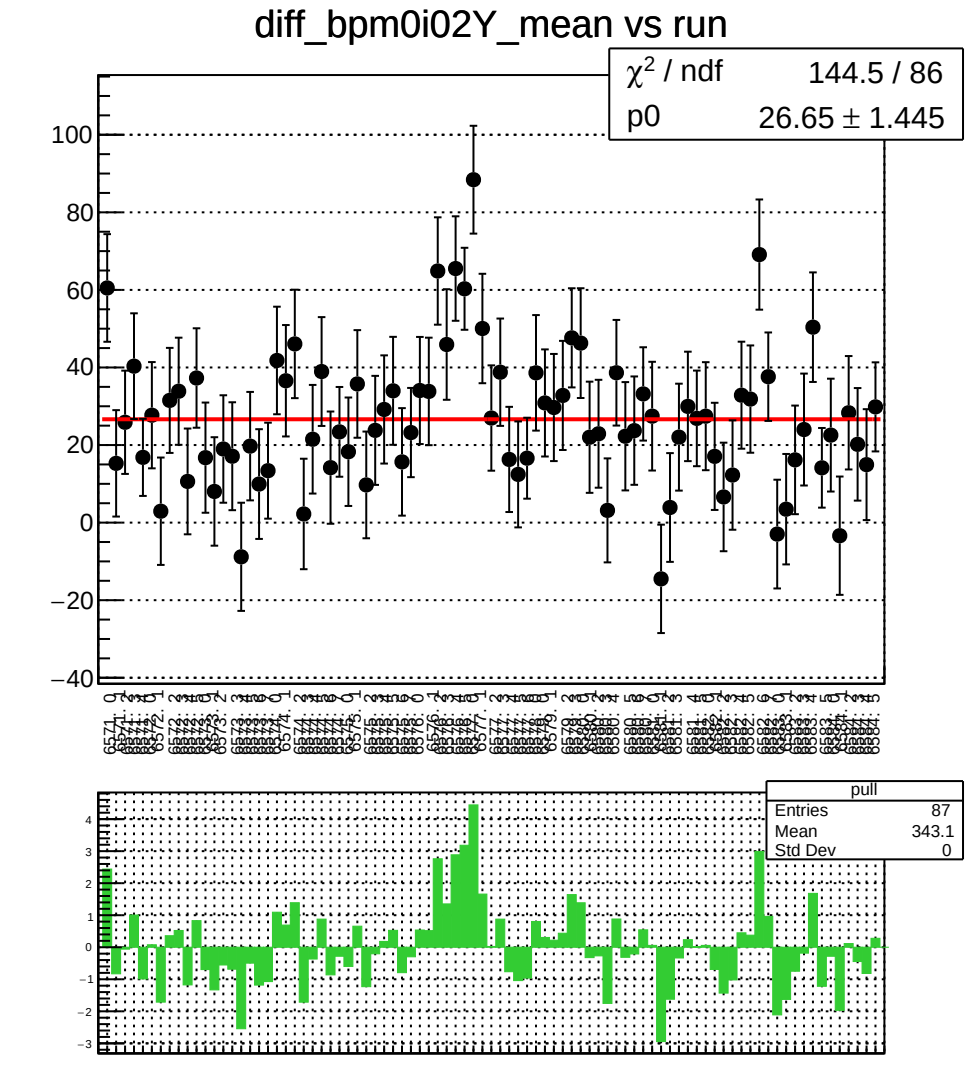

pull1D
Entries 87
Mean 0.01992
Std Dev 1.488

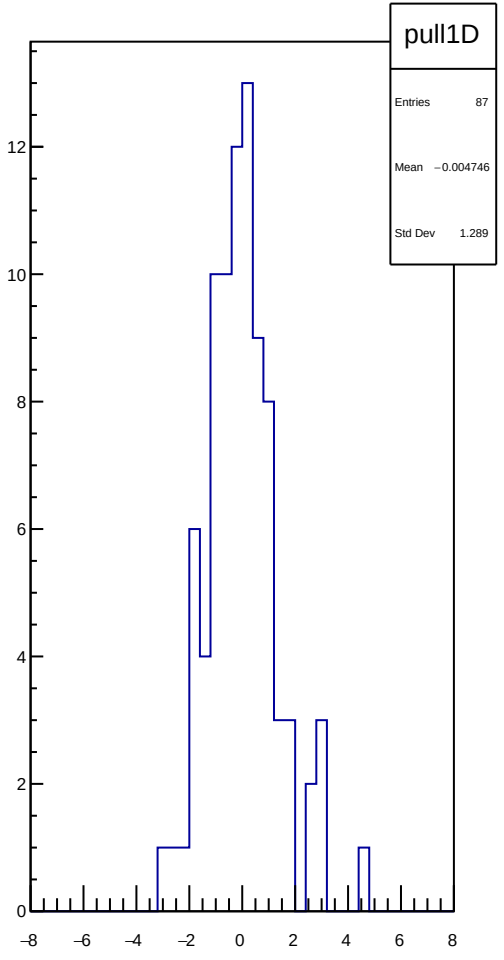

diff_bpm2i02Y_rms vs run
χ^2 / ndf 1055 / 86
p0 803.7 ± 0.619
900
880
860
840
820
800
780

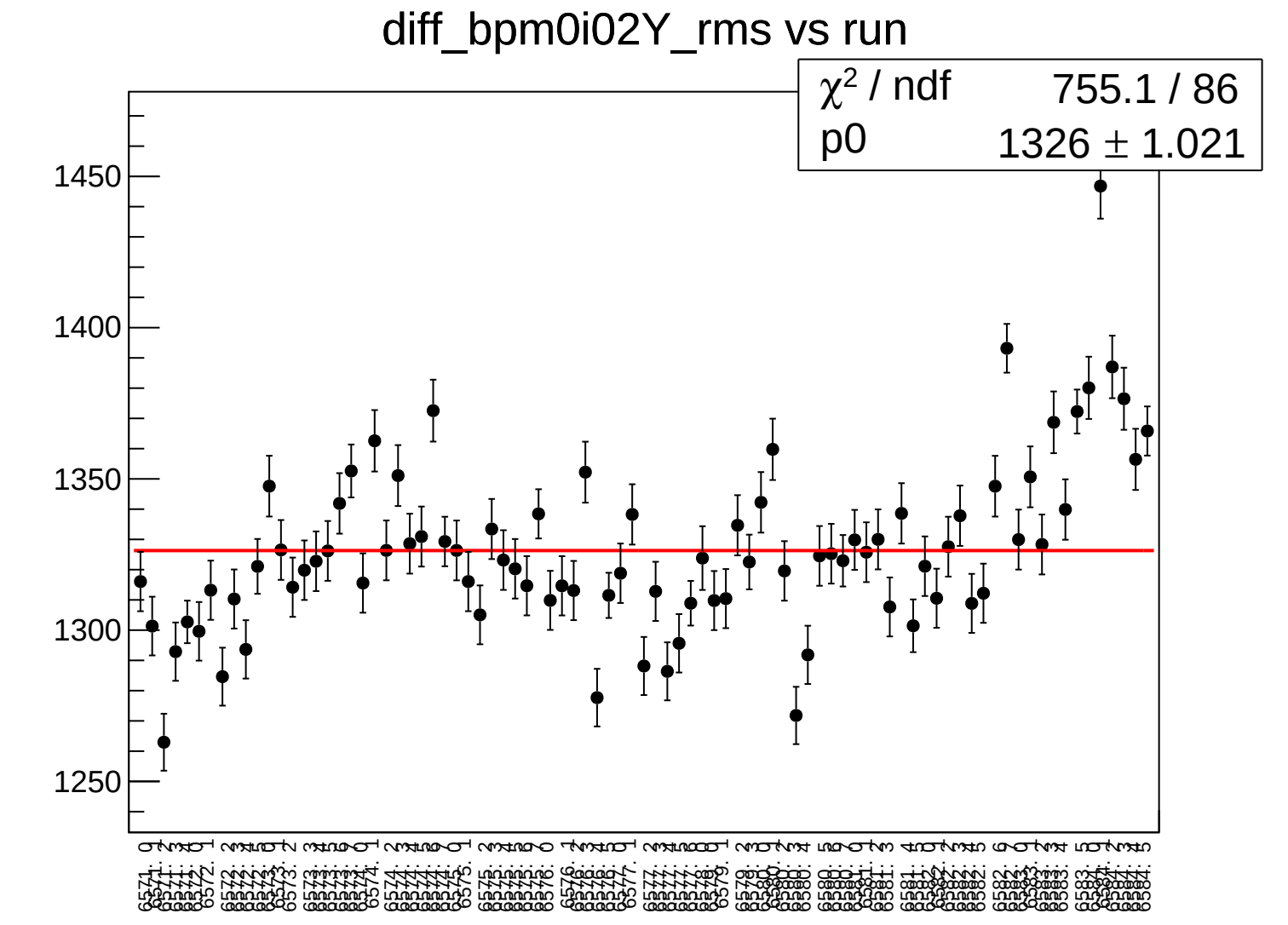

diff_bpm0i02X_mean vs run
χ^2 / ndf 94.61 / 86
p0 2.013 ± 1.701
pull
Entries 87
Mean 982
Std Dev 0

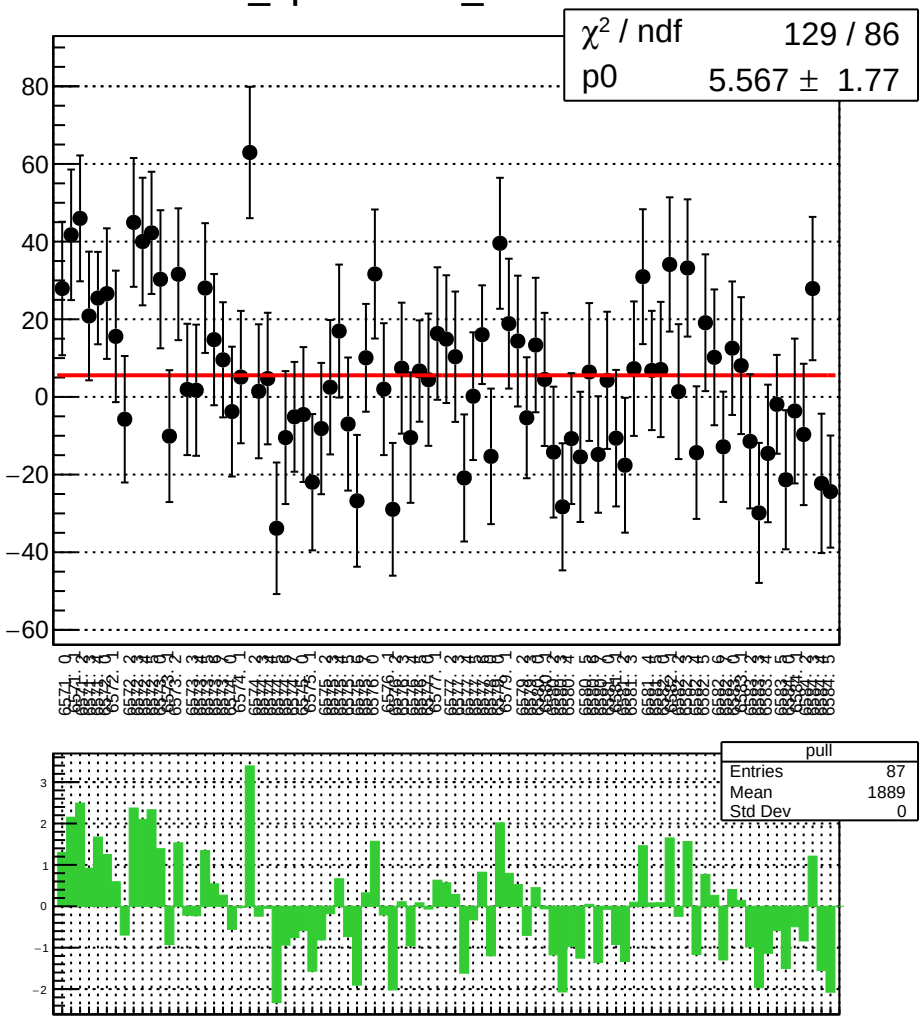

pull1D
Entries 87
Mean −0.00976
Std Dev 1.043

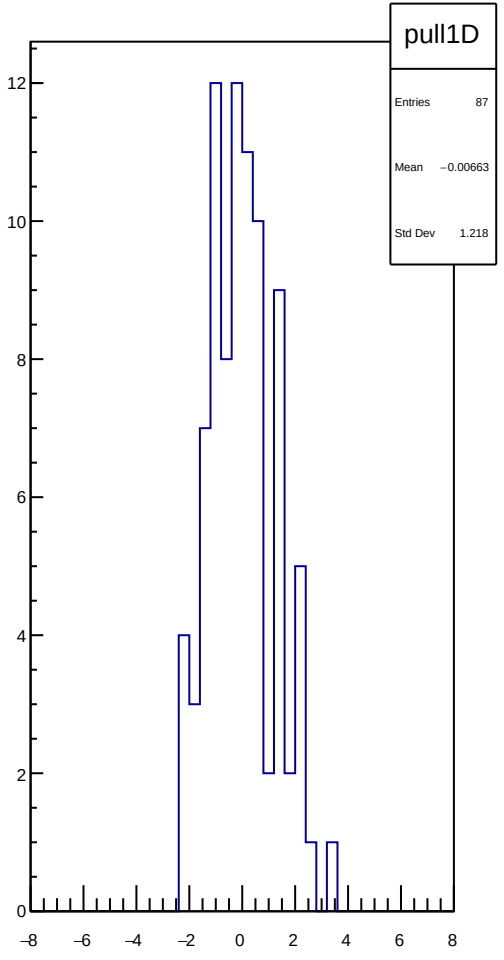

diff_bpm0i02X_rms vs run
χ² / ndf 4350 / 86
p0 1560 ± 1.203
1800
1750
1700
1650
1600
1550
1500
1450
1400

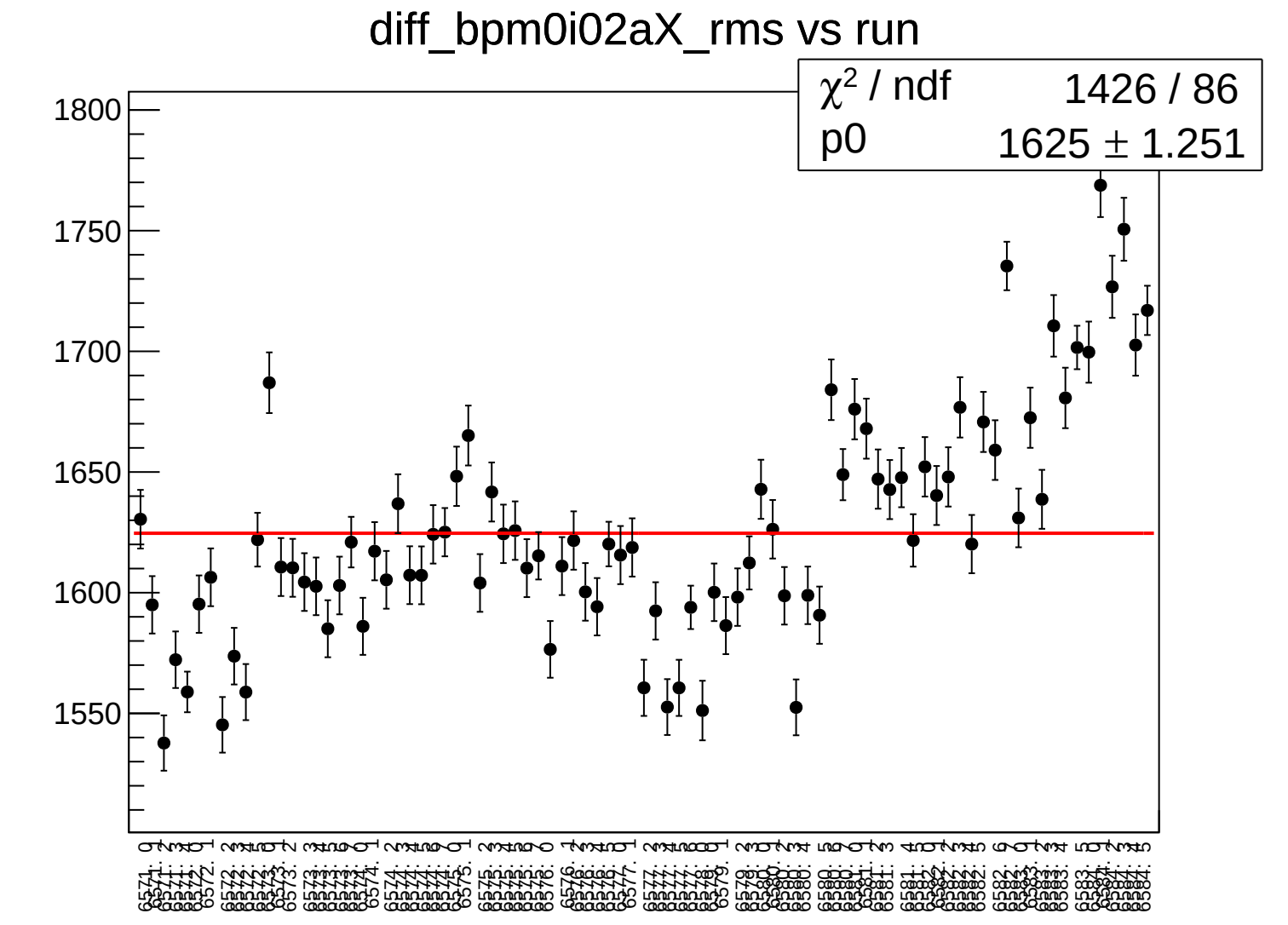

diff_bpm0i02Y_mean vs run
χ^2 / ndf 144.5 / 86
p0 26.65 ± 1.445
pull
Entries 87
Mean 343.1
Std Dev 0

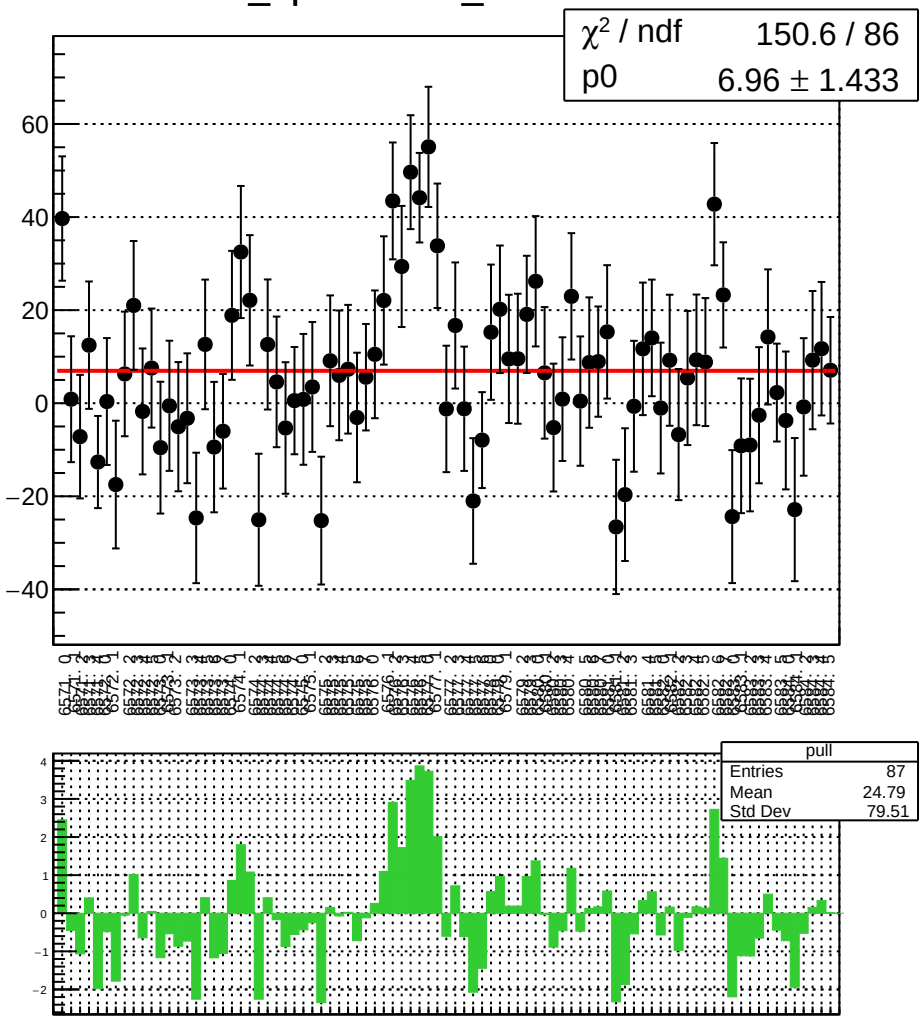

pull1D
Entries 87
Mean −0.004746
Std Dev 1.289

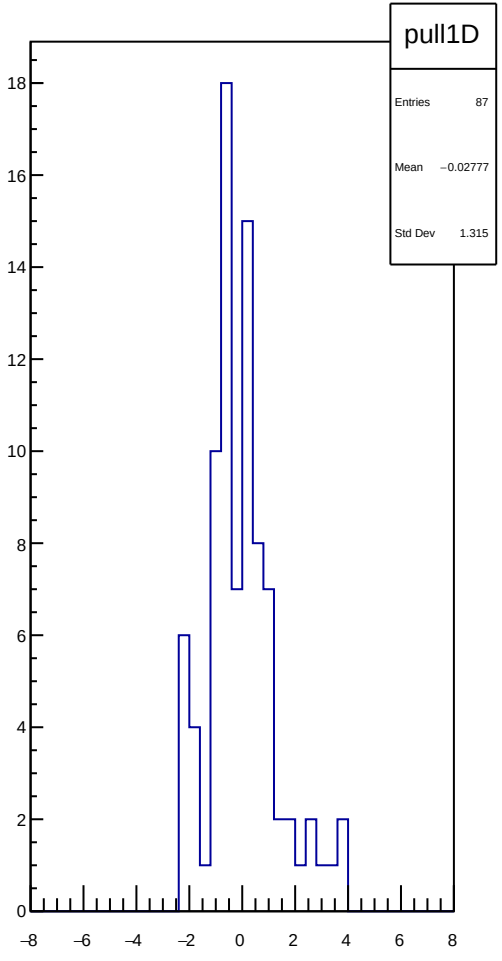

diff_bpm0i02Y_rms vs run
χ² / ndf 755.1 / 86
p0 1326 ± 1.021
1450
1400
1350
1300
1250

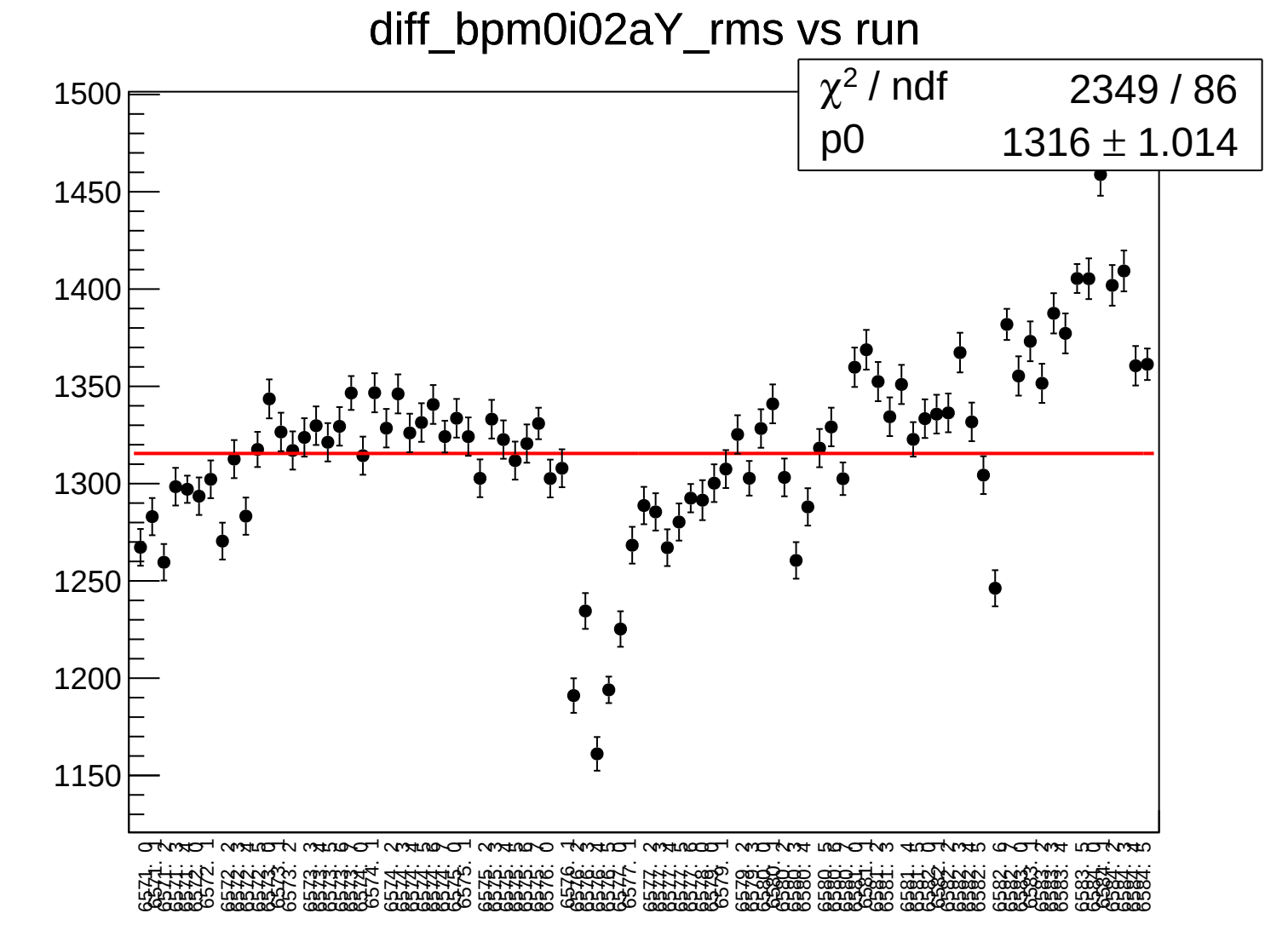

diff_bpm0i02aX_mean vs run
χ² / ndf 129 / 86
p0 5.567 ± 1.77
pull
Entries 87
Mean 1889
Std Dev 0

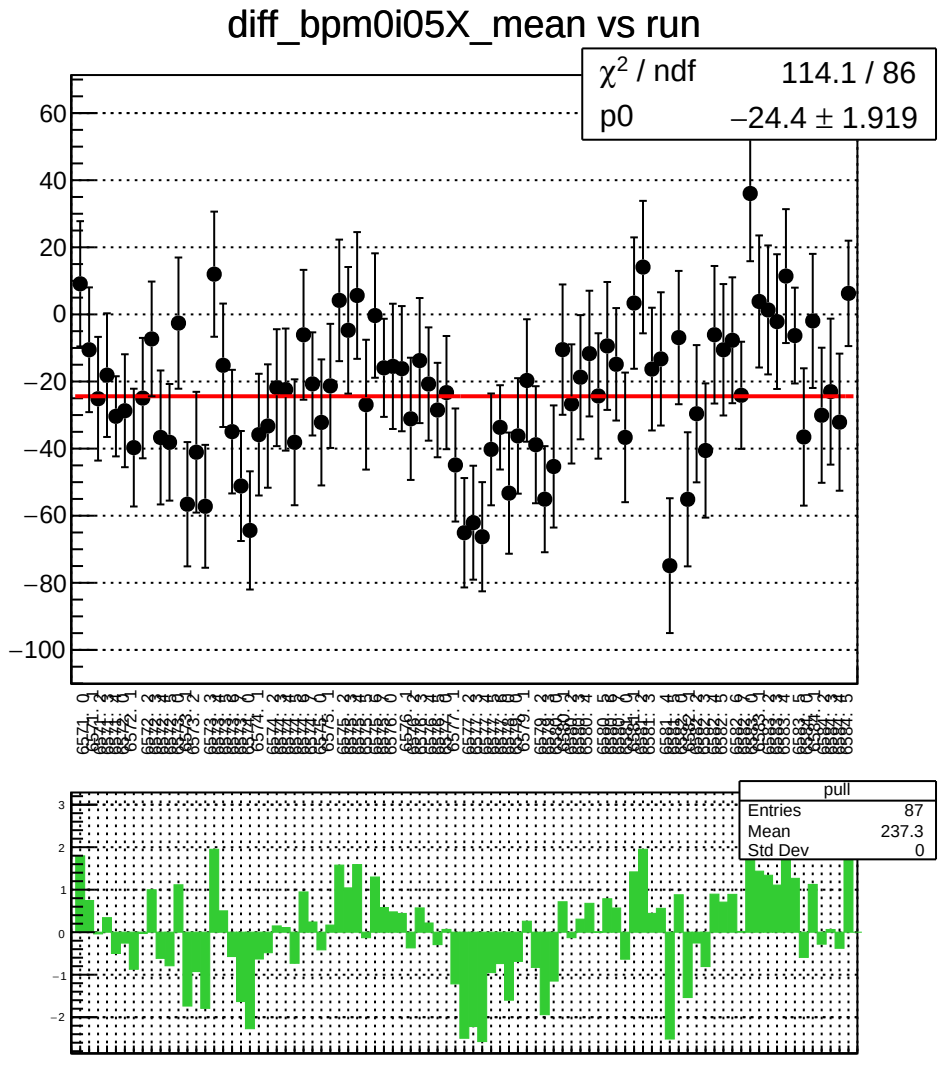

pull1D
Entries 87
Mean −0.00663
Std Dev 1.218

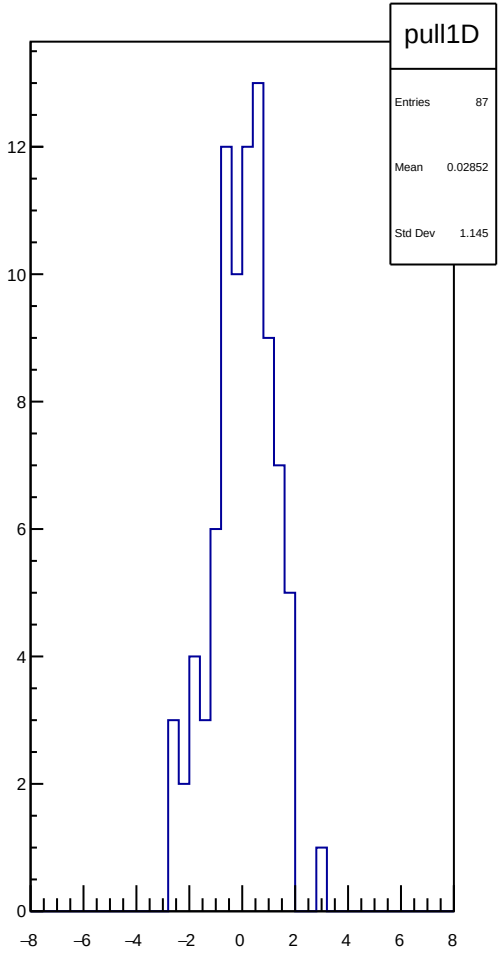

diff_bpm0i02aX_rms vs run
χ² / ndf 1426 / 86
p0 1625 ± 1.251
1800
1750
1700
1650
1600
1550

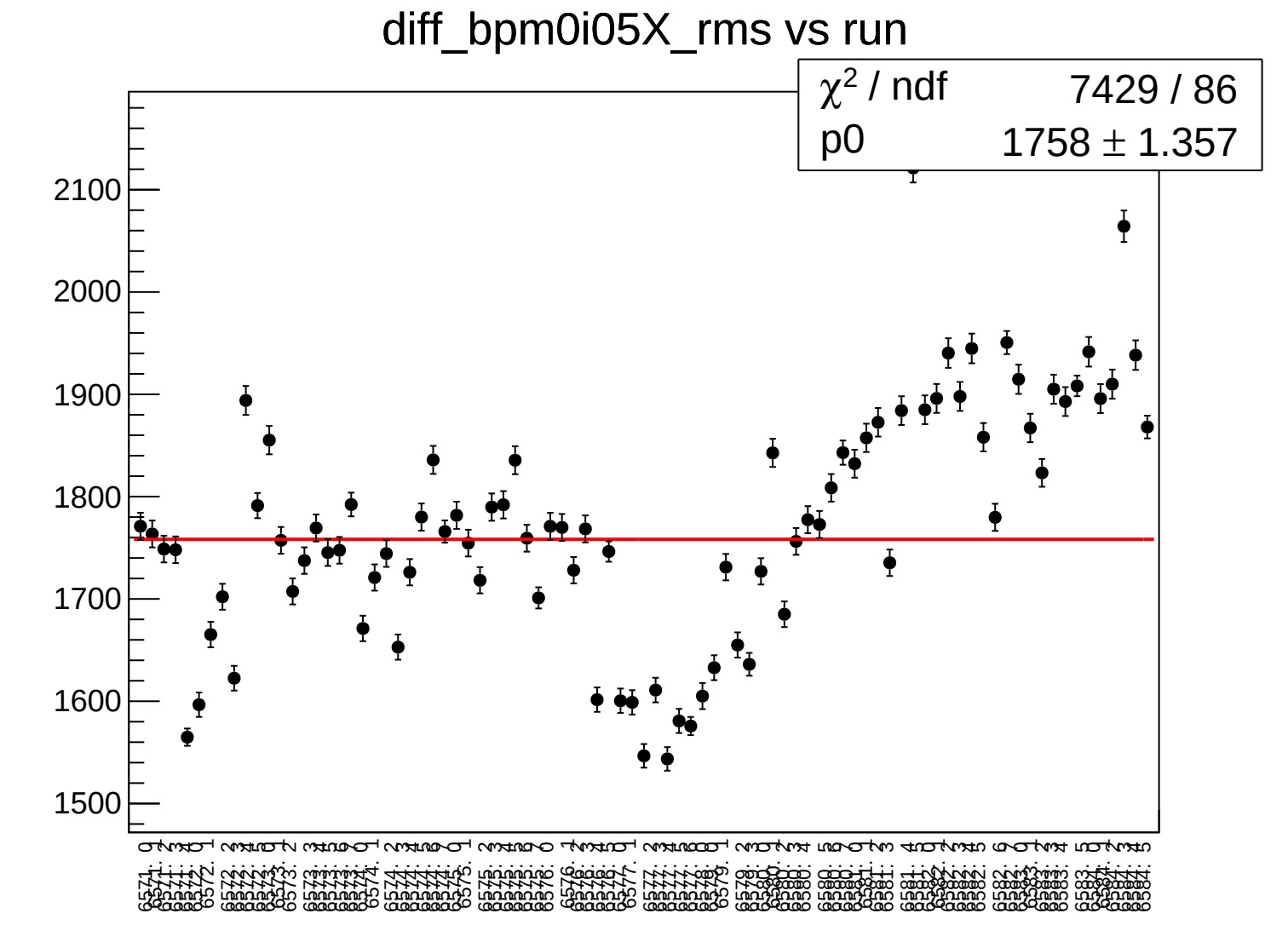

diff_bpm0i02aY_mean vs run
χ² / ndf 150.6 / 86
p0 6.96 ± 1.433
pull
Entries 87
Mean 24.79
Std Dev 79.51

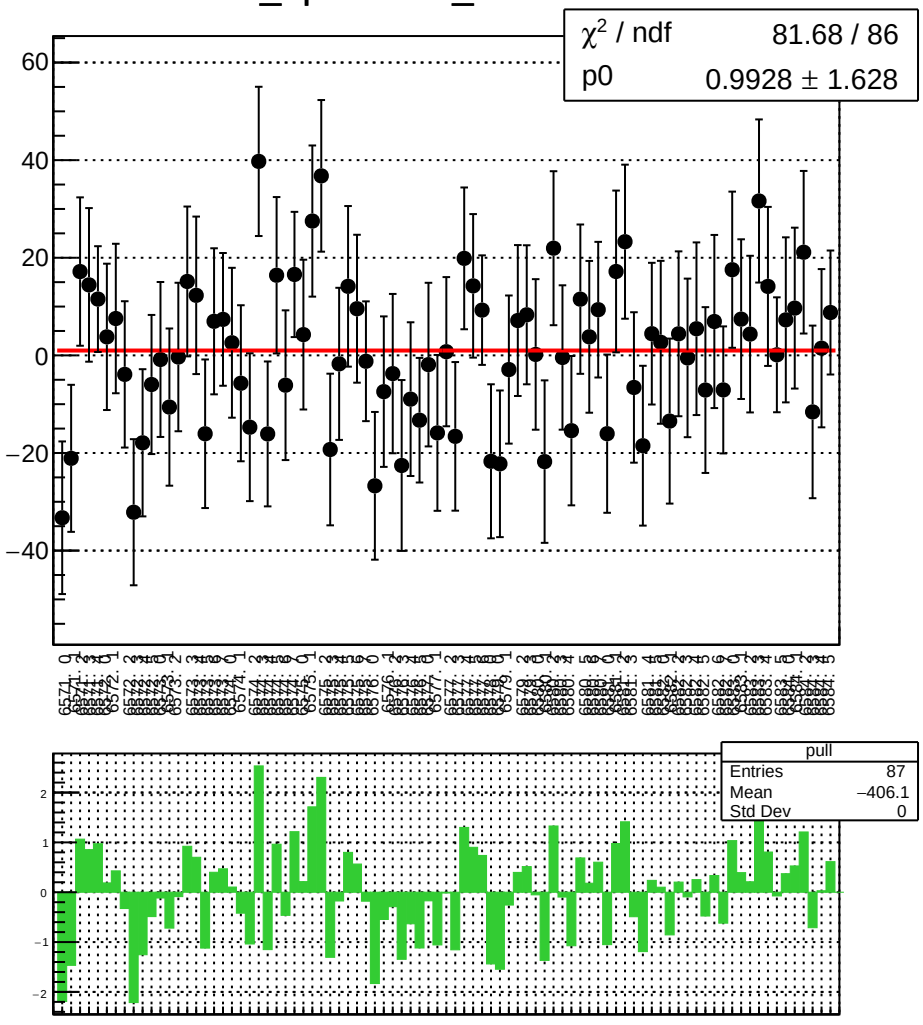

pull1D
Entries 87
Mean −0.02777
Std Dev 1.315

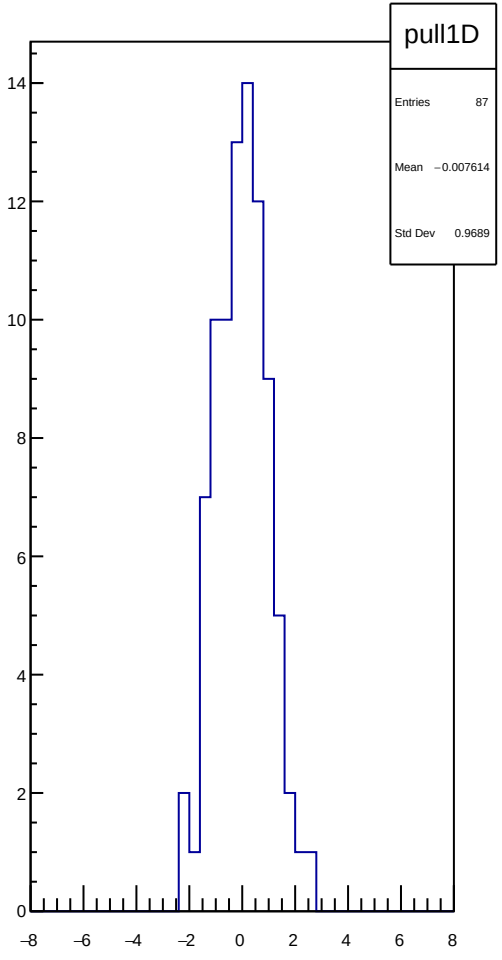

diff_bpm0i02aY_rms vs run
χ² / ndf 2349 / 86
p0 1316 ± 1.014
1500
1450
1400
1350
1300
1250
1200
1150

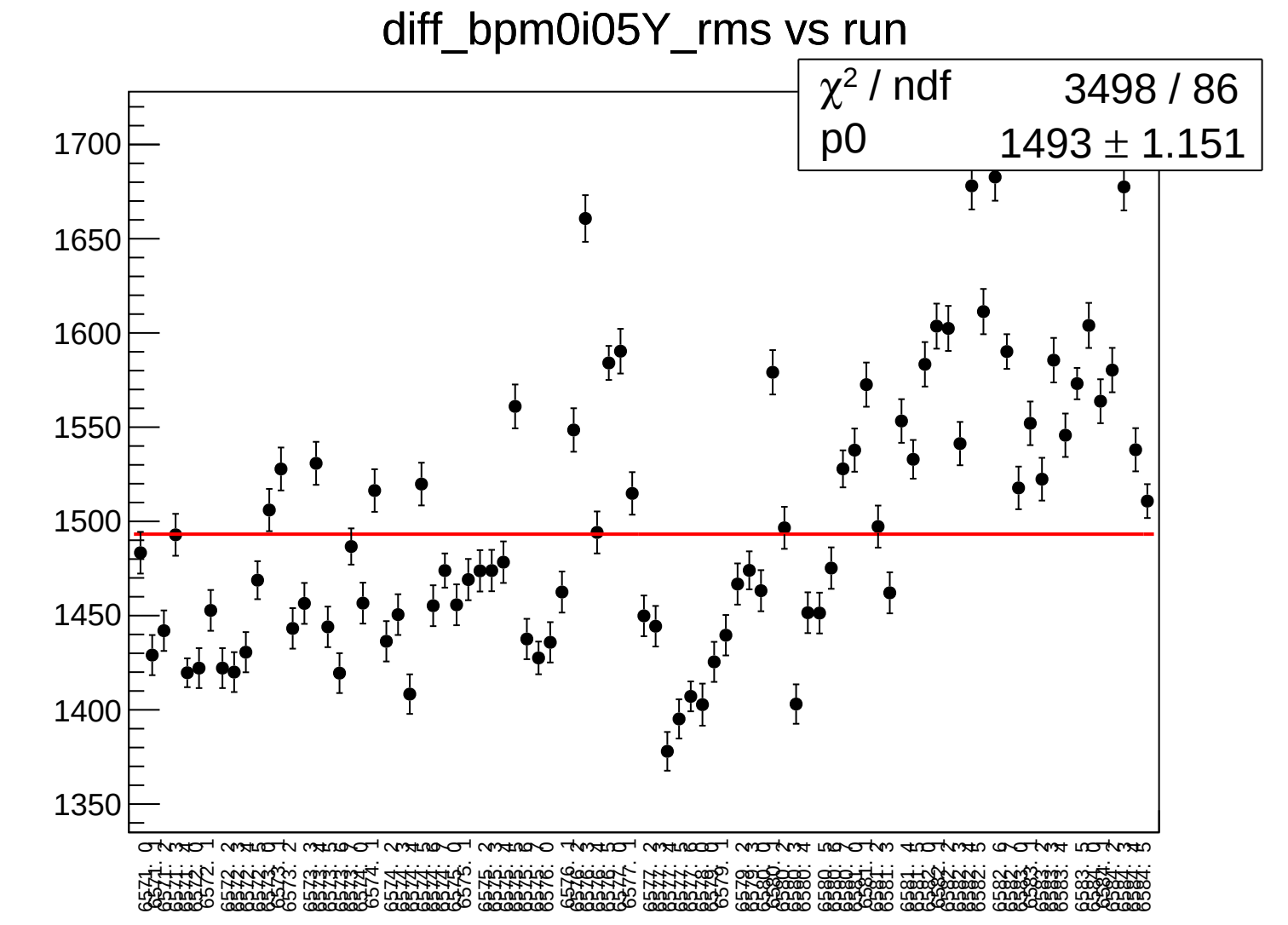

diff_bpm0i05X_mean vs run
χ^2 / ndf 114.1 / 86
p0 −24.4 ± 1.919
pull
Entries 87
Mean 237.3
Std Dev 0

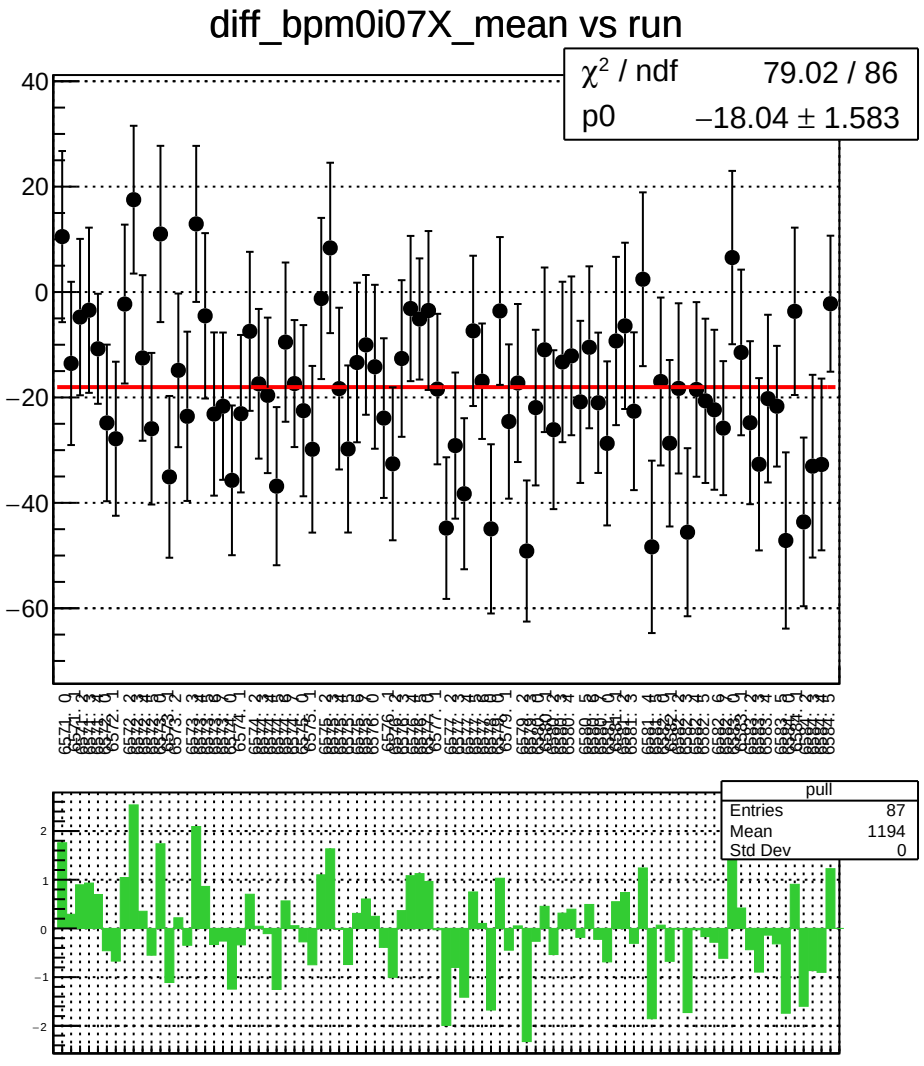

pull1D
Entries 87
Mean 0.02852
Std Dev 1.145

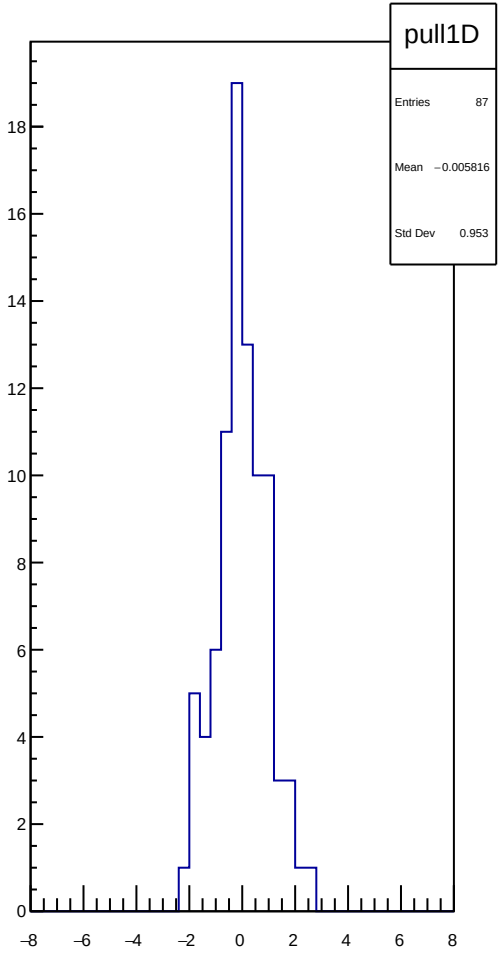

diff_bpm0i05X_rms vs run
χ² / ndf 7429 / 86
p0 1758 ± 1.357
2100
2000
1900
1800
1700
1600
1500

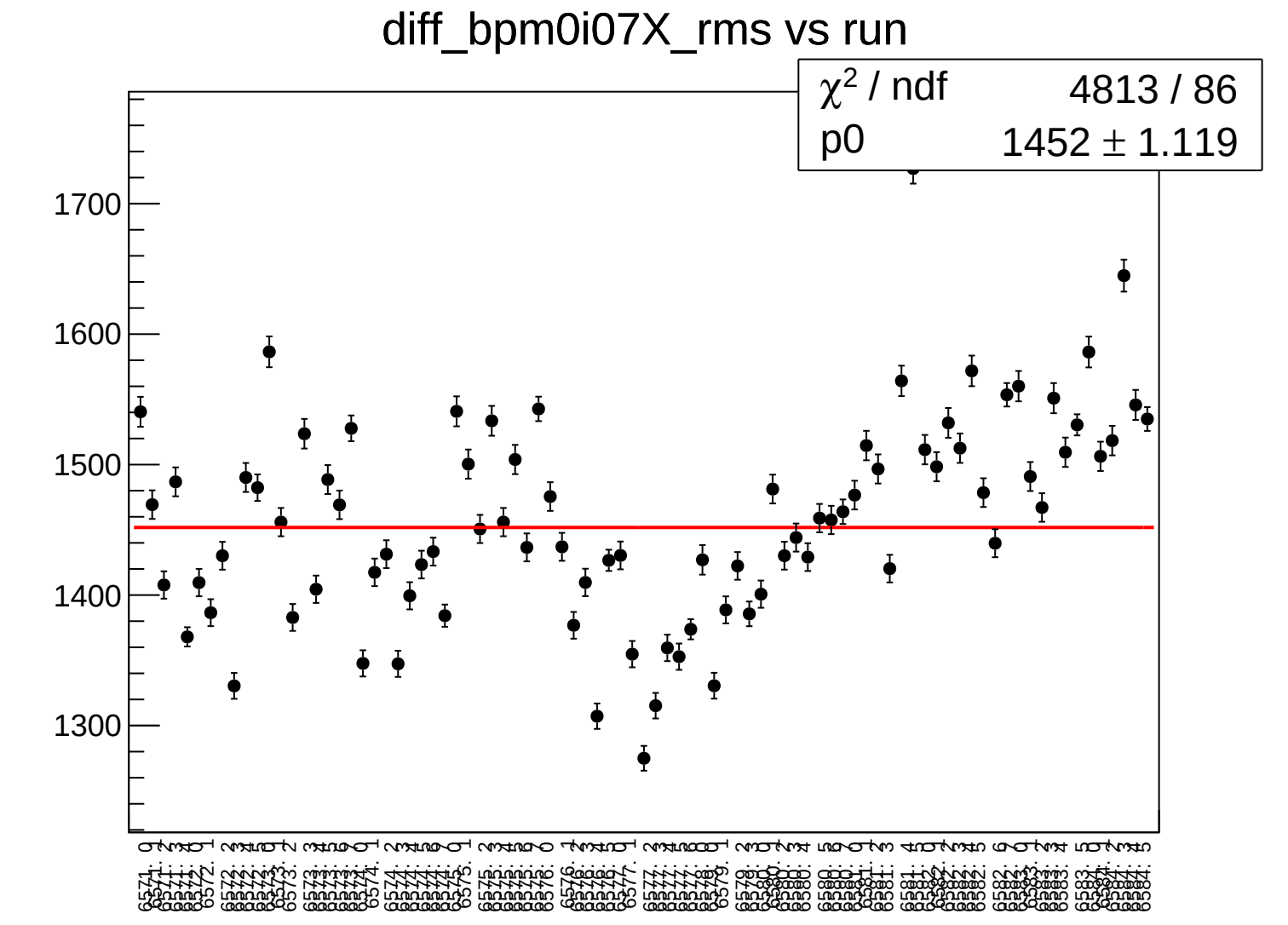

diff_bpm0i05Y_mean vs run
χ² / ndf 81.68 / 86
p0 0.9928 ± 1.628
pull
Entries 87
Mean −406.1
Std Dev 0

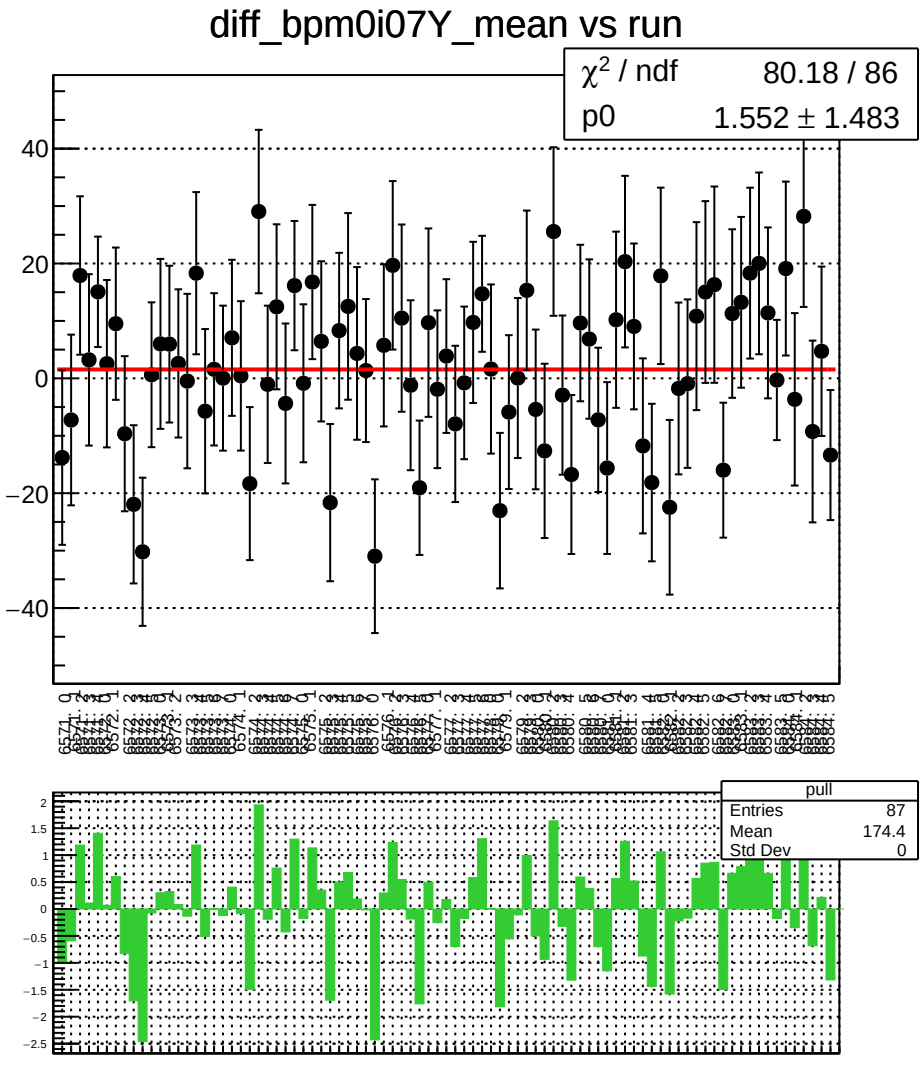

pull1D
Entries 87
Mean −0.007614
Std Dev 0.9689

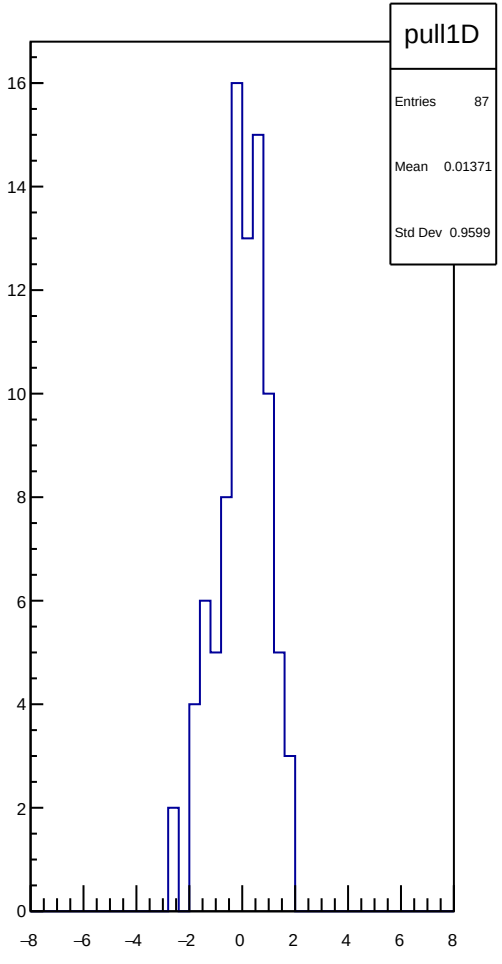

diff_bpm0i05Y_rms vs run
χ² / ndf 3498 / 86
p0 1493 ± 1.151
1700
1650
1600
1550
1500
1450
1400
1350

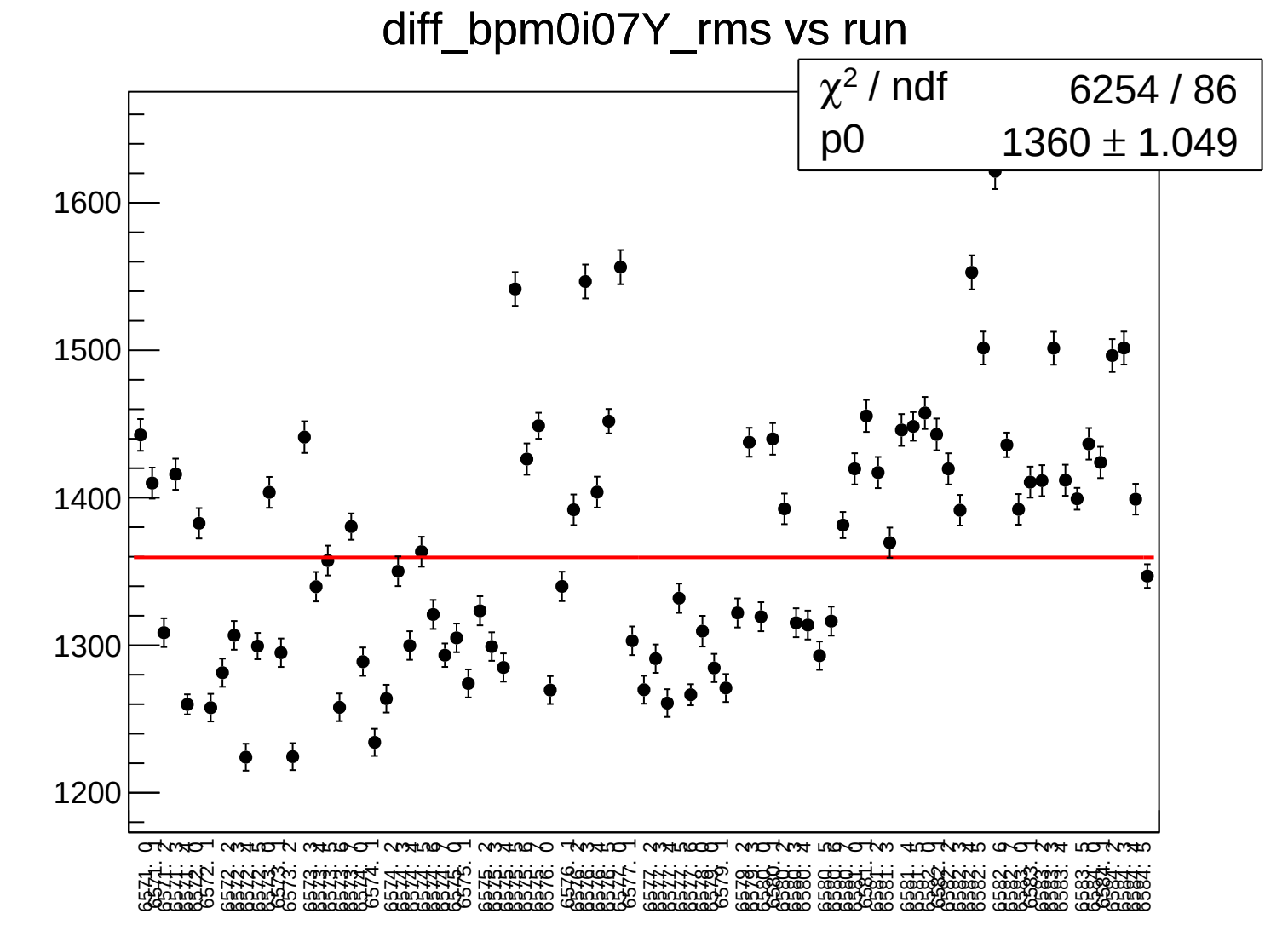

diff_bpm0i07X_mean vs run
χ² / ndf 79.02 / 86
p0 −18.04 ± 1.583
pull
Entries 87
Mean 1194
Std Dev 0

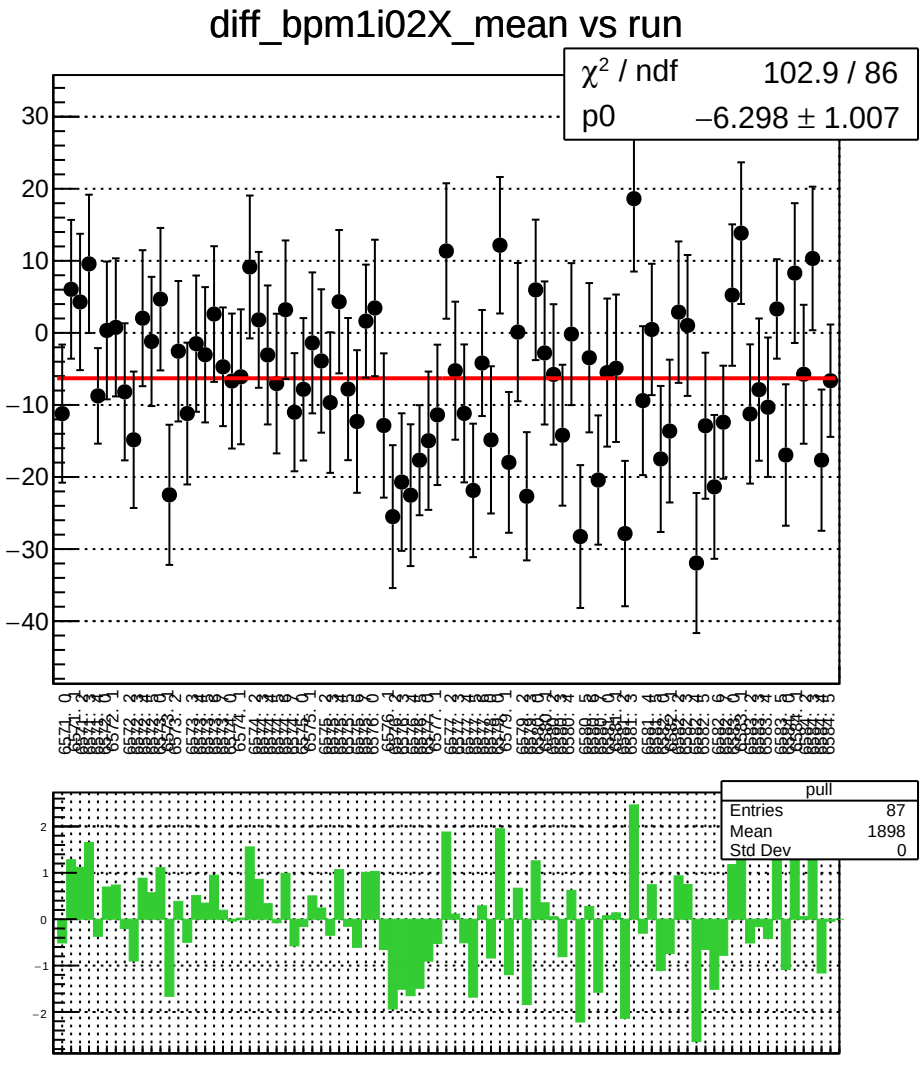

pull1D
Entries 87
Mean −0.005816
Std Dev 0.953

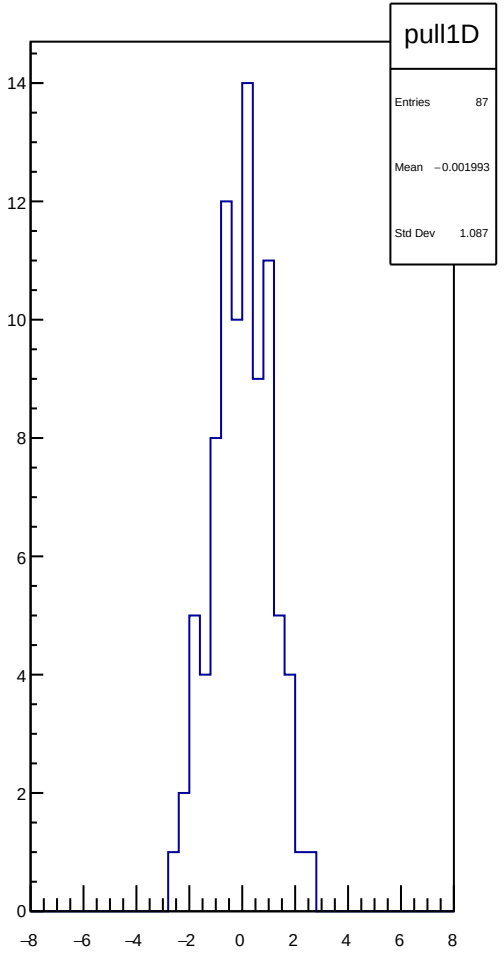

diff_bpm0i07X_rms vs run
χ² / ndf 4813 / 86
p0 1452 ± 1.119
1700
1600
1500
1400
1300

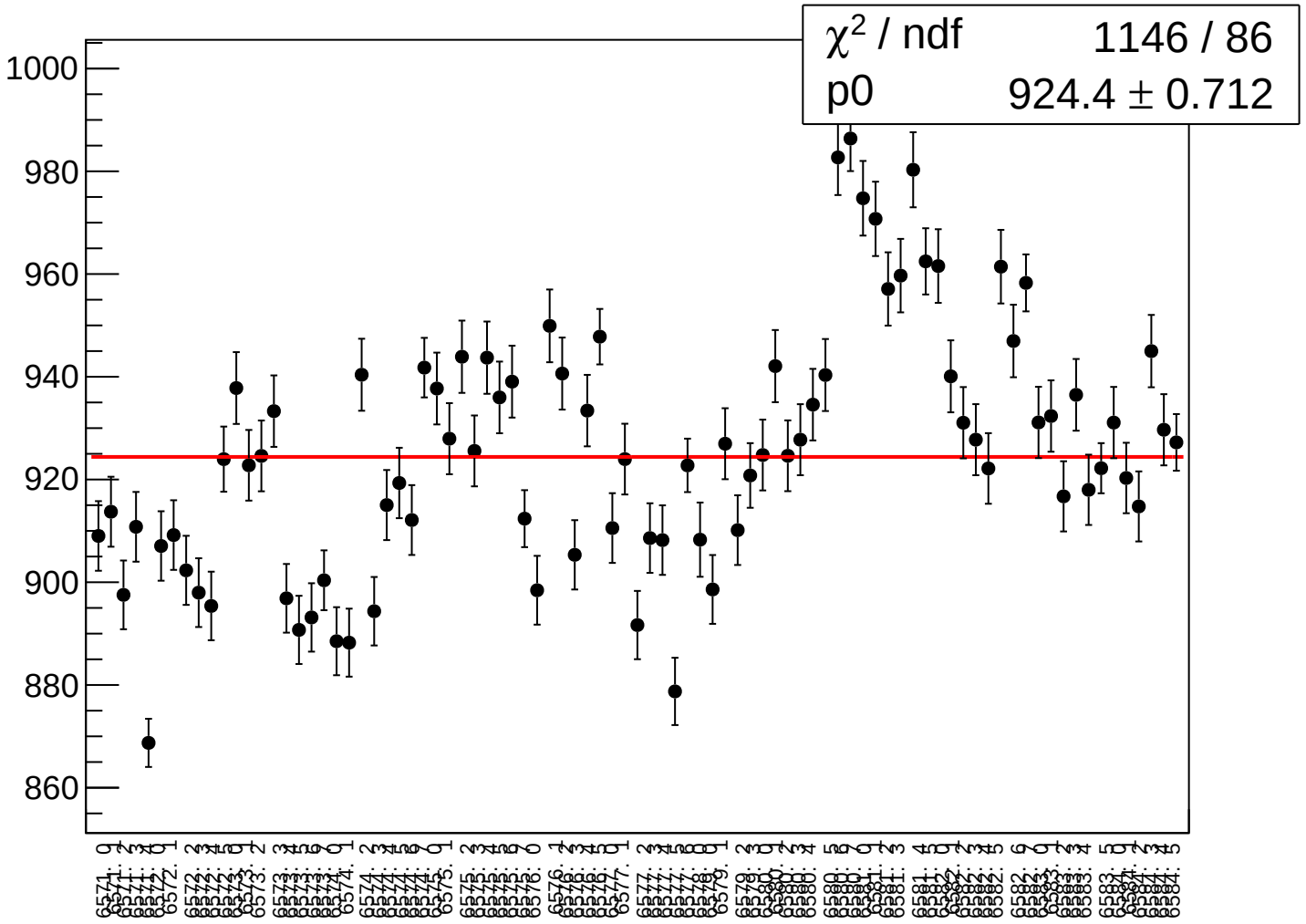

diff_bpm0i07Y_mean vs run
χ² / ndf 80.18 / 86
p0 1.552 ± 1.483
pull
Entries 87
Mean 174.4
Std Dev 0

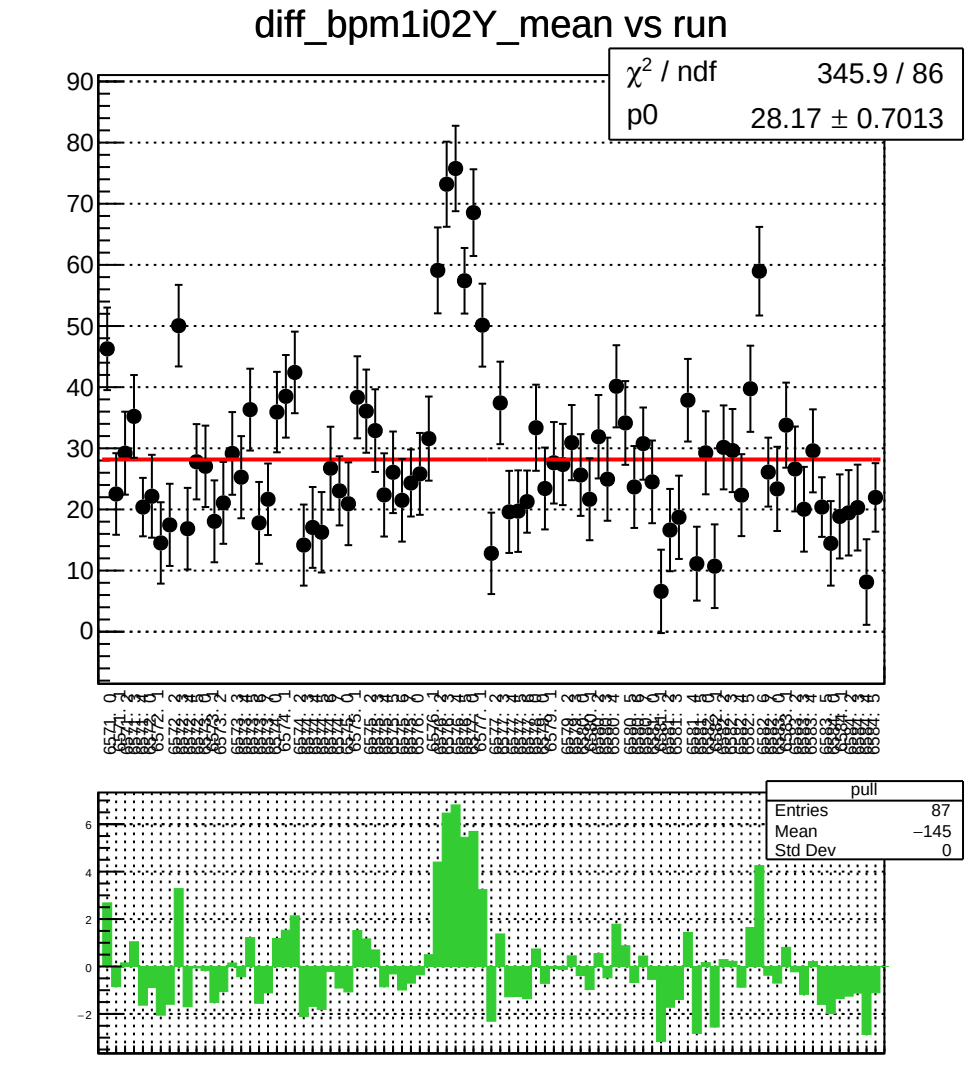

pull1D
Entries 87
Mean 0.01371
Std Dev 0.9599

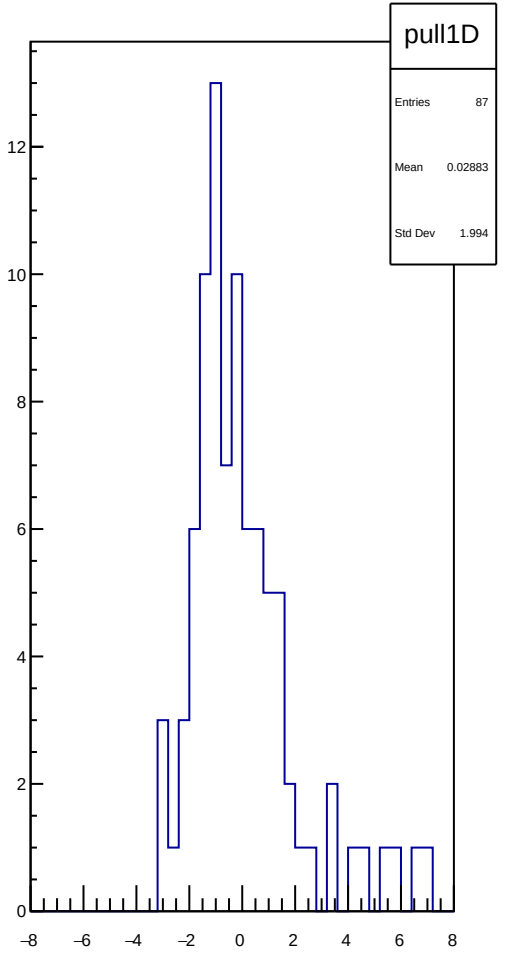

diff_bpm0i07Y_rms vs run
χ² / ndf 6254 / 86
p0 1360 ± 1.049
1600
1500
1400
1300
1200

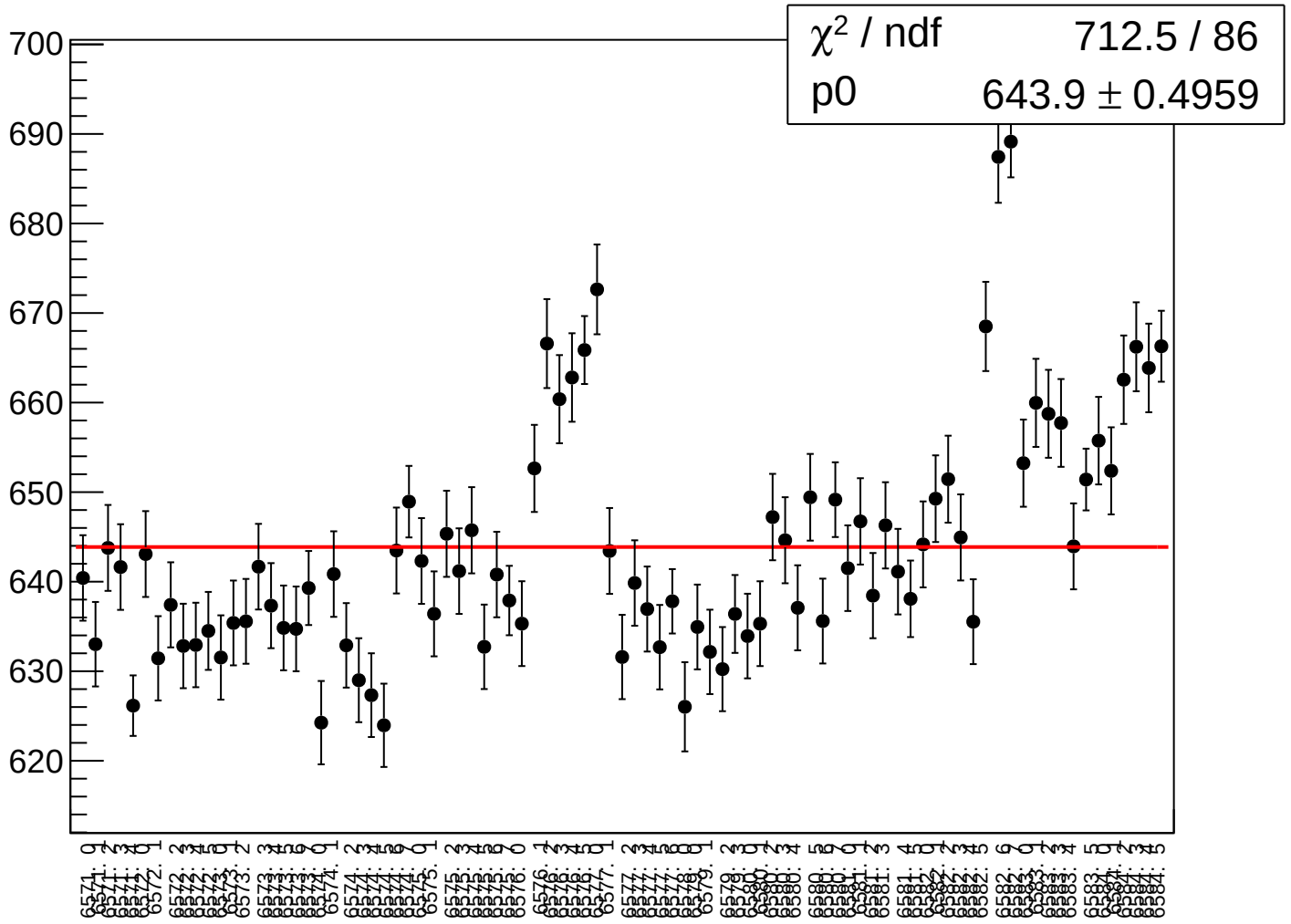

diff_bpm1i02X_mean vs run
χ² / ndf 102.9 / 86
p0 −6.298 ± 1.007
pull
Entries 87
Mean 1898
Std Dev 0

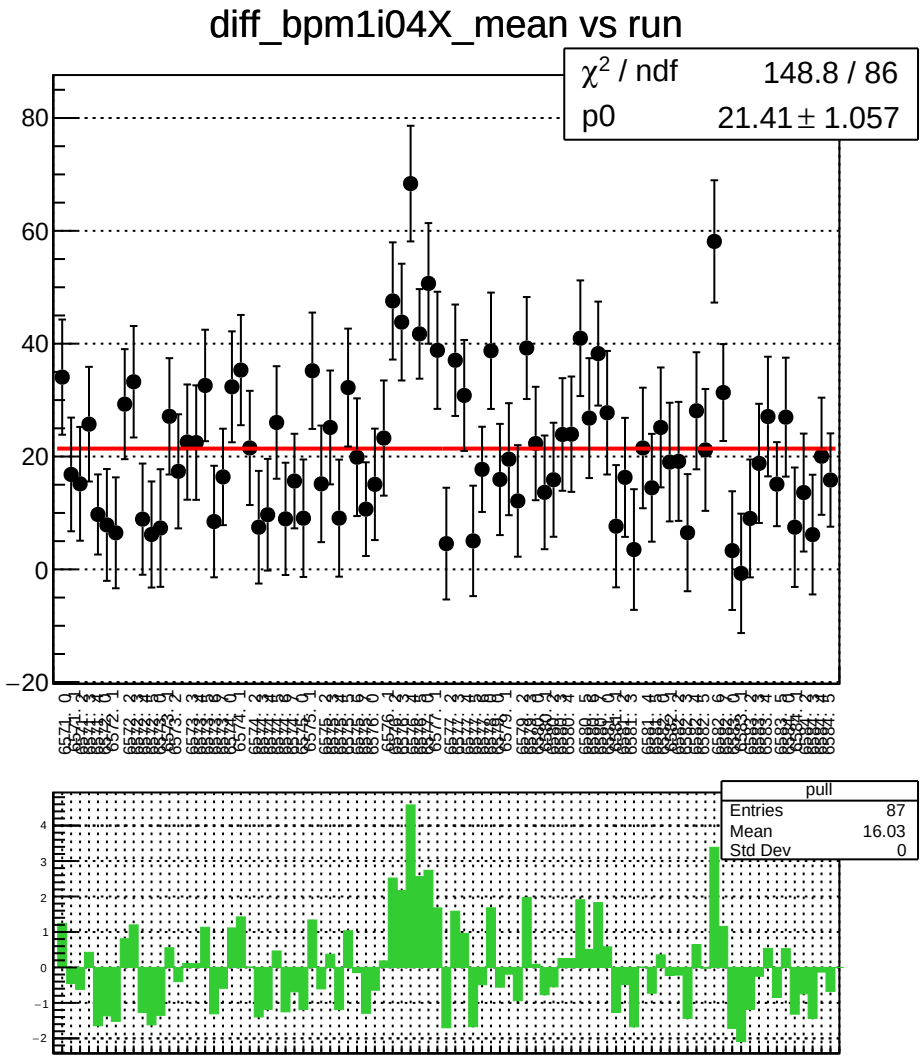

pull1D
Entries 87
Mean −0.001993
Std Dev 1.087

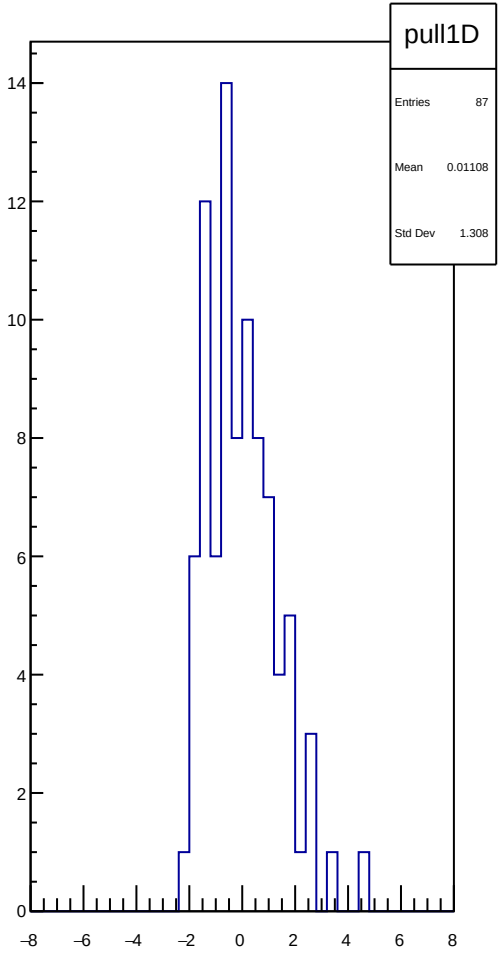

diff_bpm1i02X_rms vs run
χ² / ndf 1146 / 86
p0 924.4 ± 0.712
1000
980
960
940
920
900
880
860

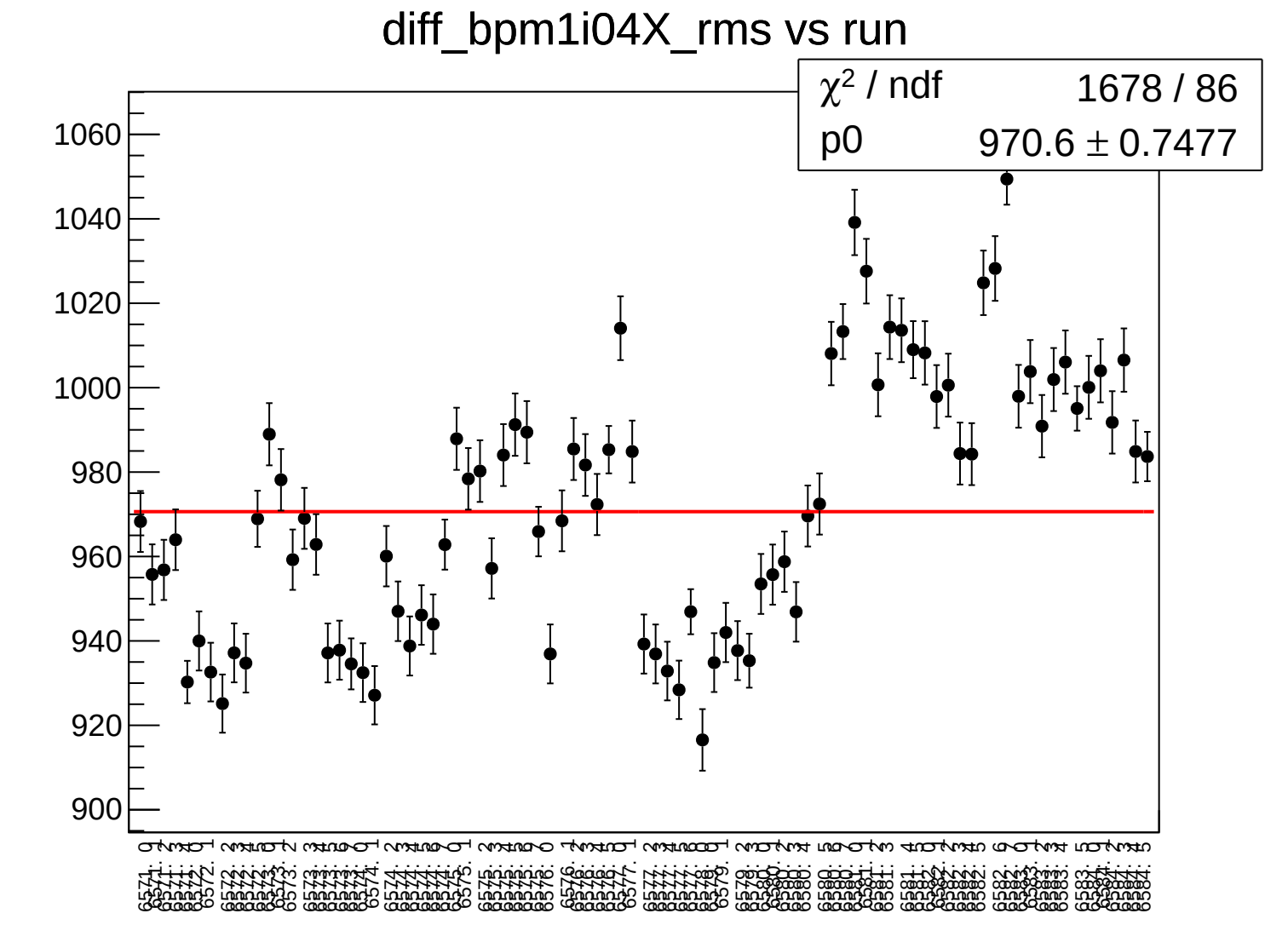

diff_bpm1i02Y_mean vs run
χ² / ndf 345.9 / 86
p0 28.17 ± 0.7013
pull
Entries 87
Mean −145
Std Dev 0

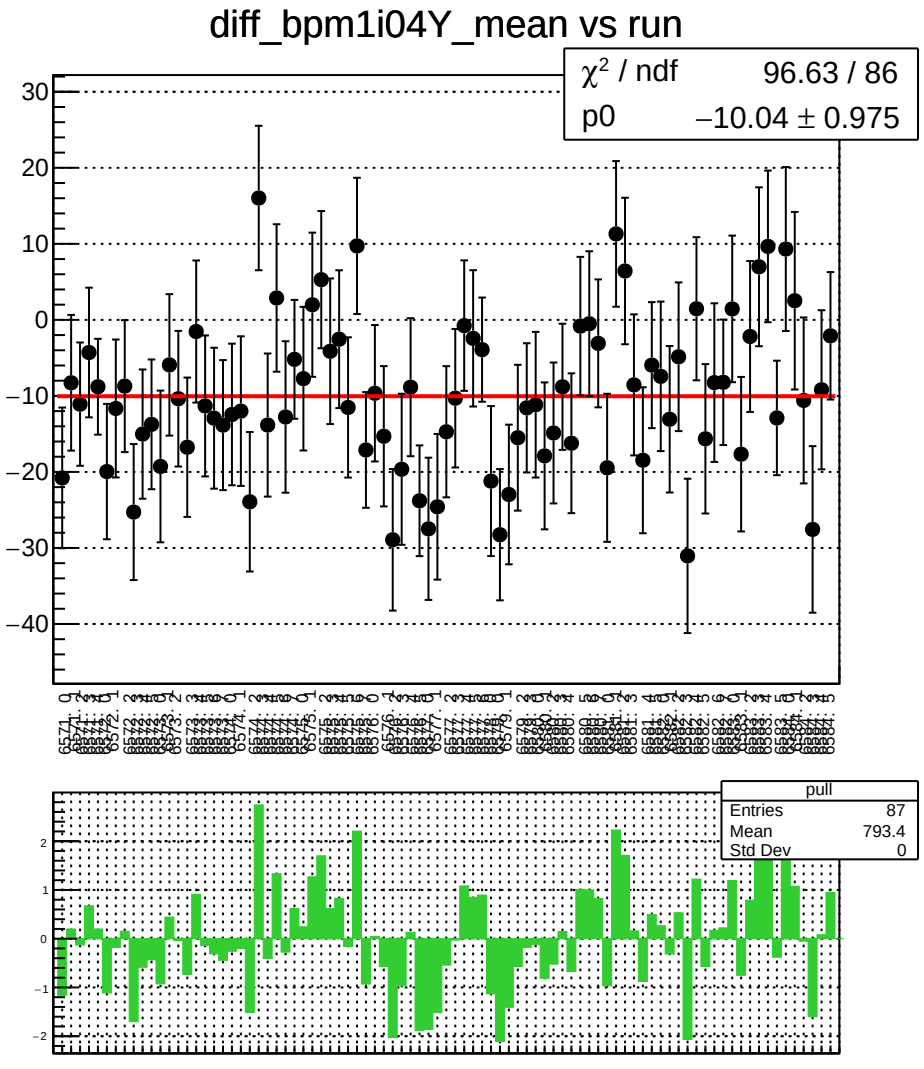

pull1D
Entries 87
Mean 0.02883
Std Dev 1.994

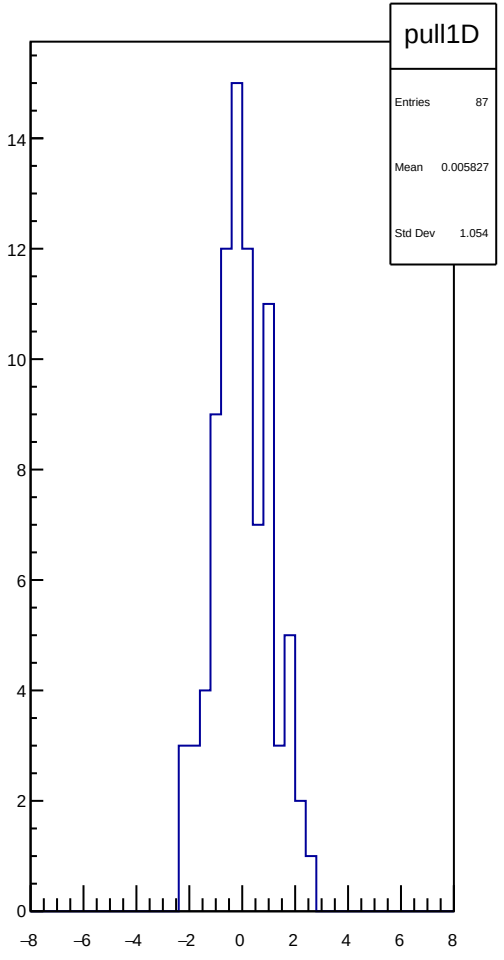

diff_bpm1i02Y_rms vs run
χ² / ndf 712.5 / 86
p0 643.9 ± 0.4959
700
690
680
670
660
650
640
630
620

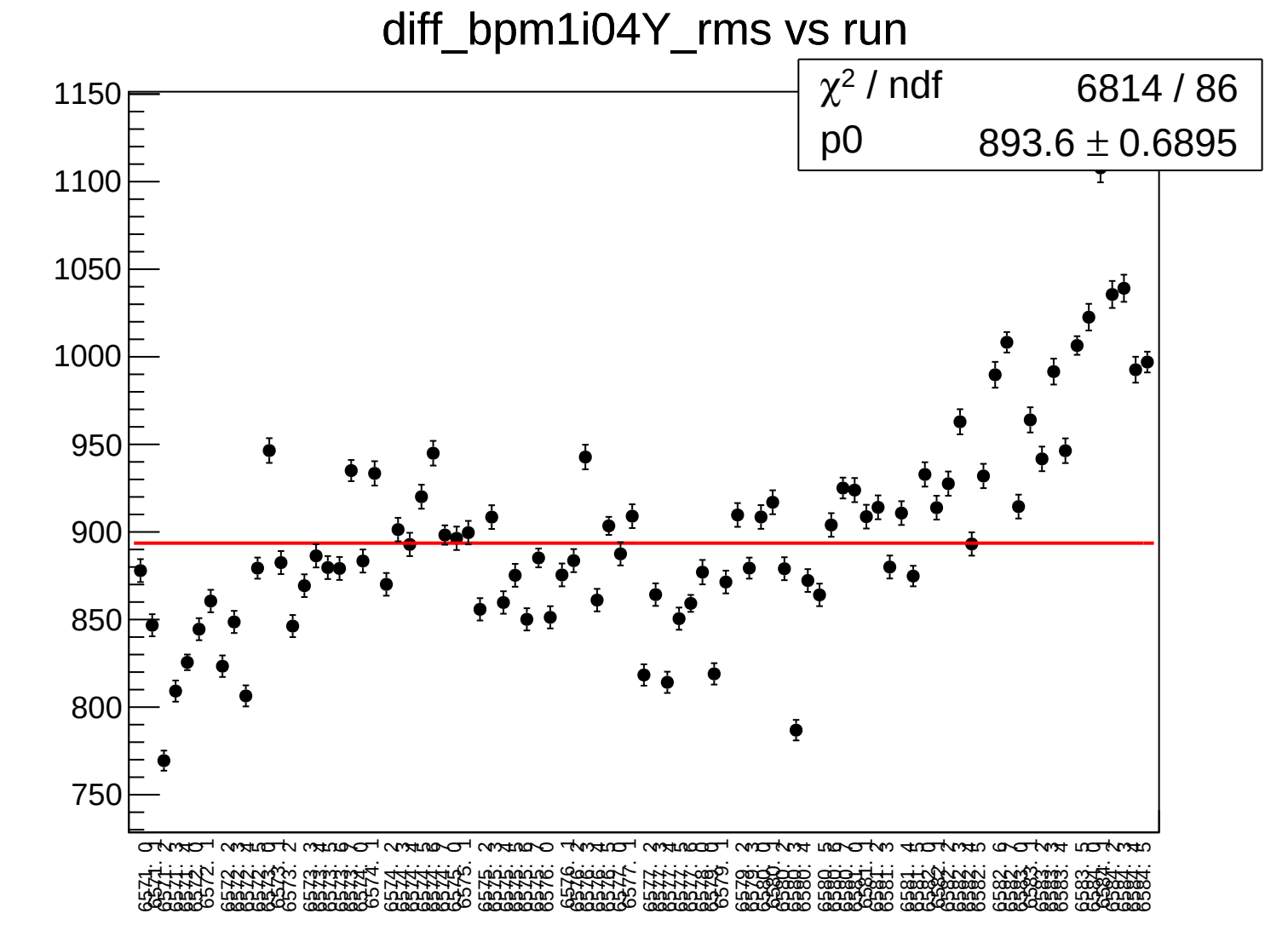

diff_bpm1i04X_mean vs run
χ² / ndf 148.8 / 86
p0 21.41 ± 1.057
pull
Entries 87
Mean 16.03
Std Dev 0

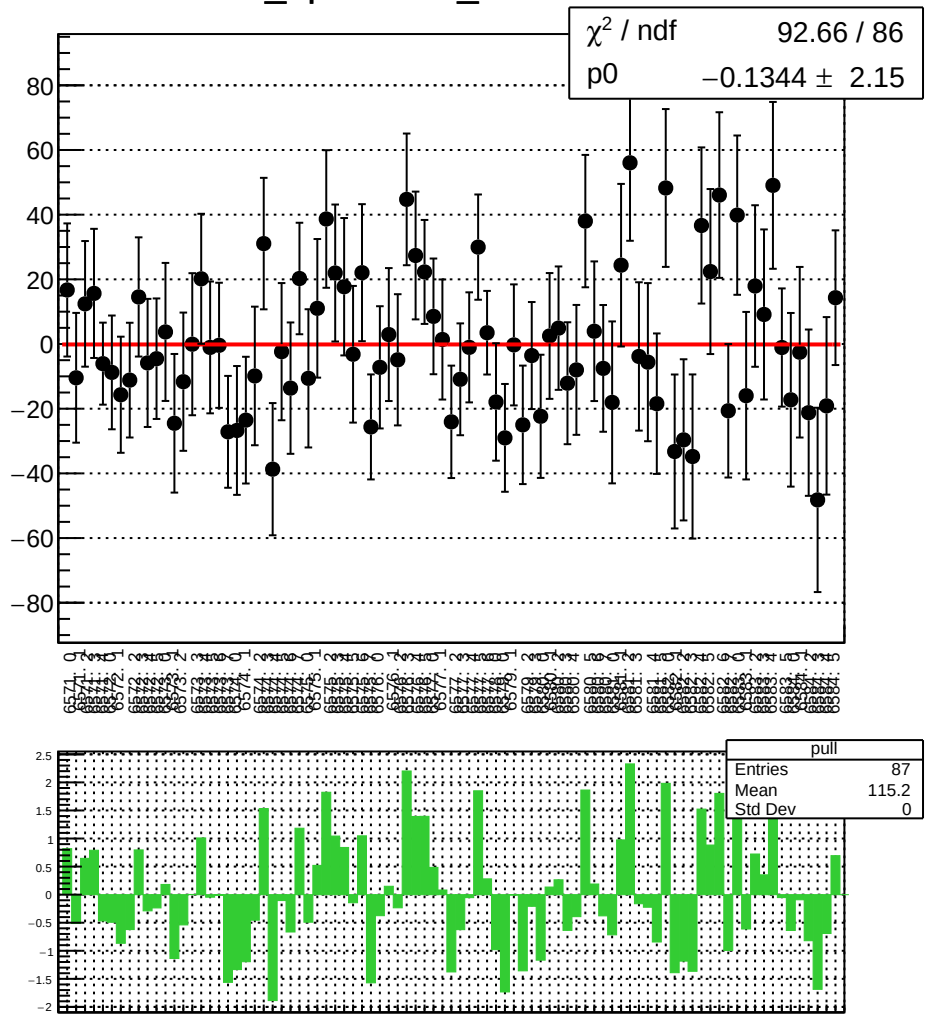

pull1D
Entries 87
Mean 0.01108
Std Dev 1.308

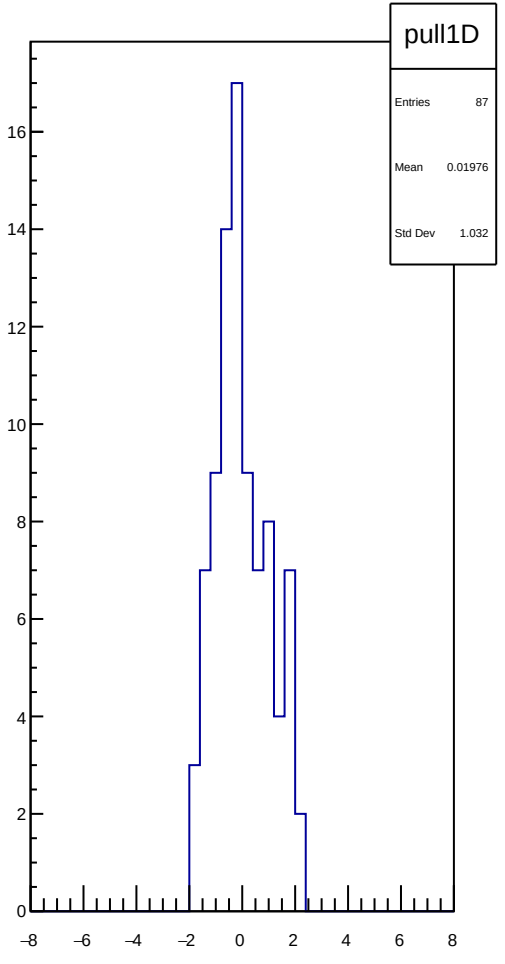

diff_bpm1i04X_rms vs run
χ² / ndf 1678 / 86
p0 970.6 ± 0.7477
1060
1040
1020
1000
980
960
940
920
900

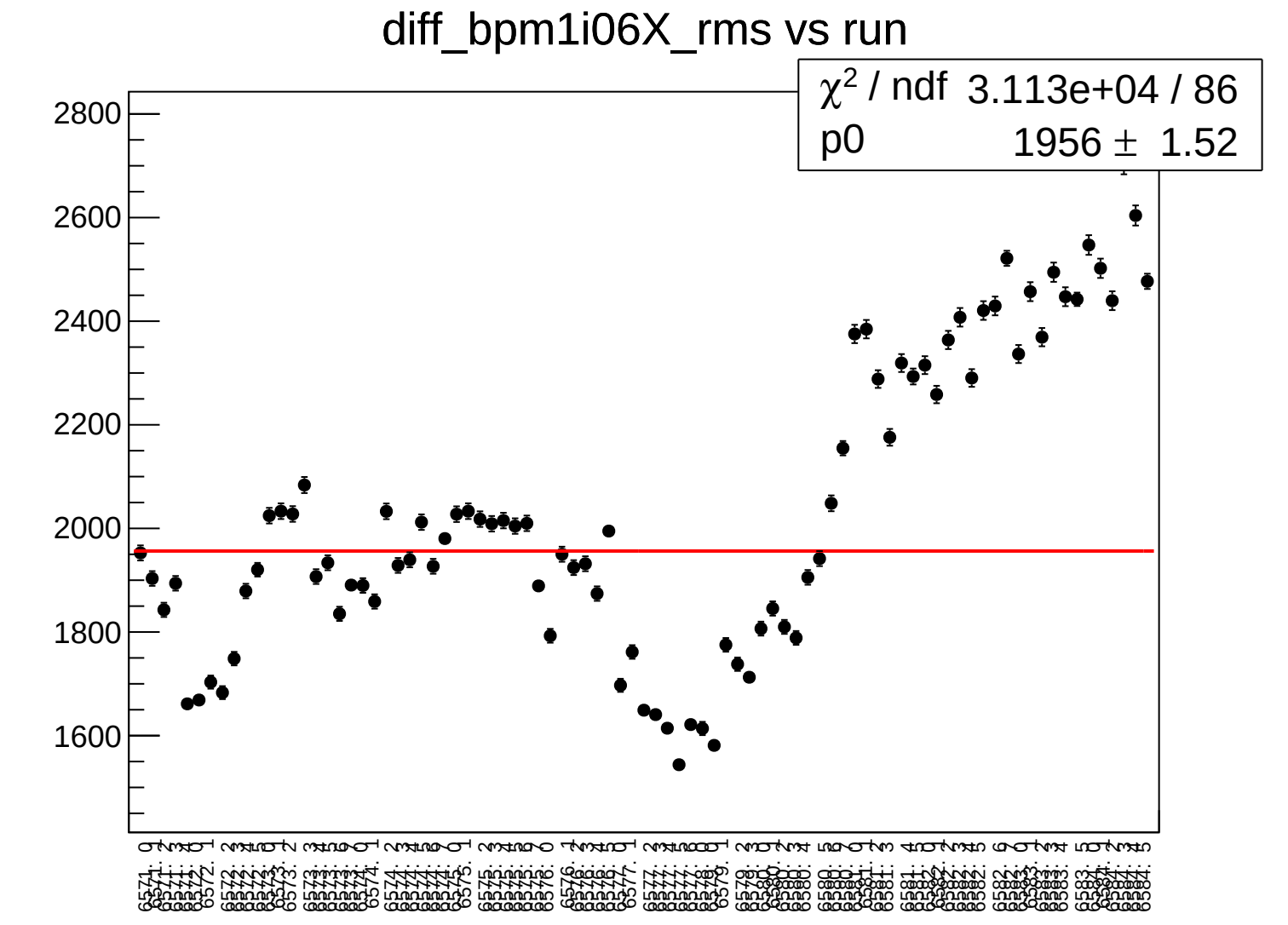

diff_bpm1i04Y_mean vs run
χ² / ndf 96.63 / 86
p0 −10.04 ± 0.975
pull
Entries 87
Mean 793.4
Std Dev 0

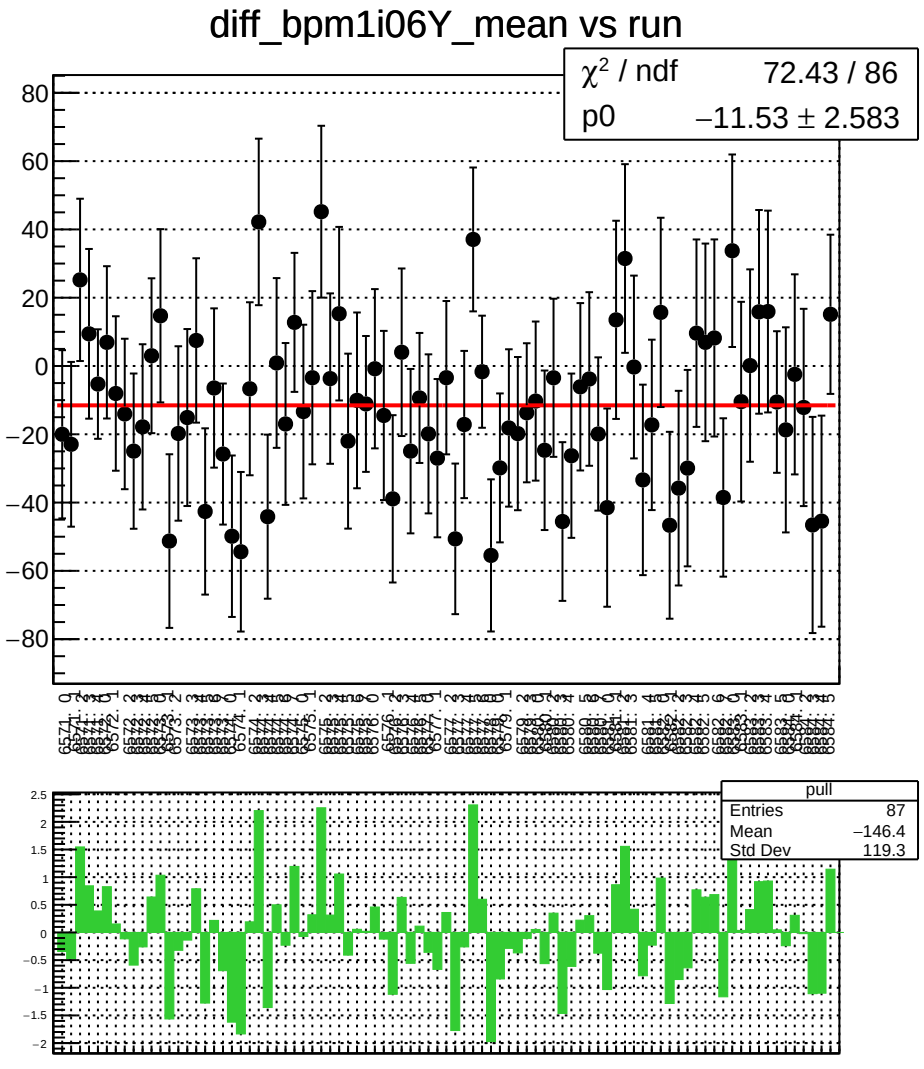

pull1D
Entries 87
Mean 0.005827
Std Dev 1.054

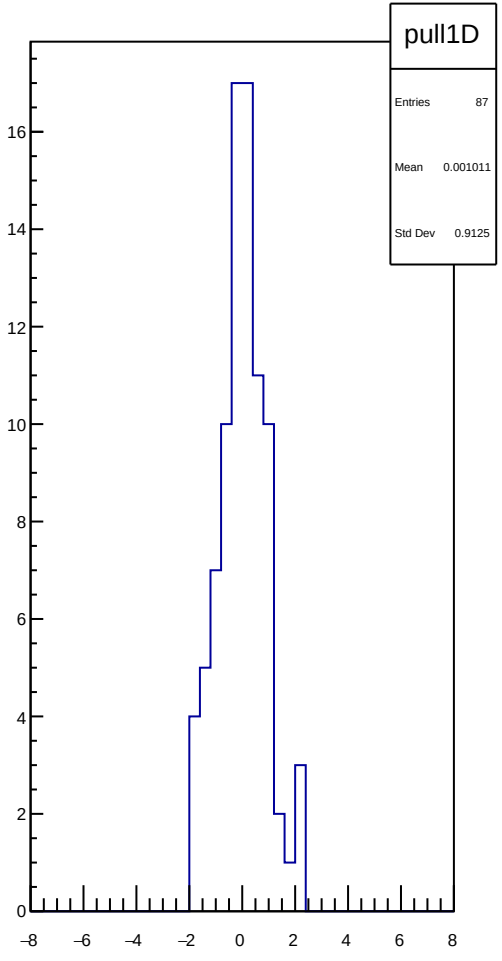

diff_bpm1i04Y_rms vs run
χ² / ndf 6814 / 86
p0 893.6 ± 0.6895
1150
1100
1050
1000
950
900
850
800
750

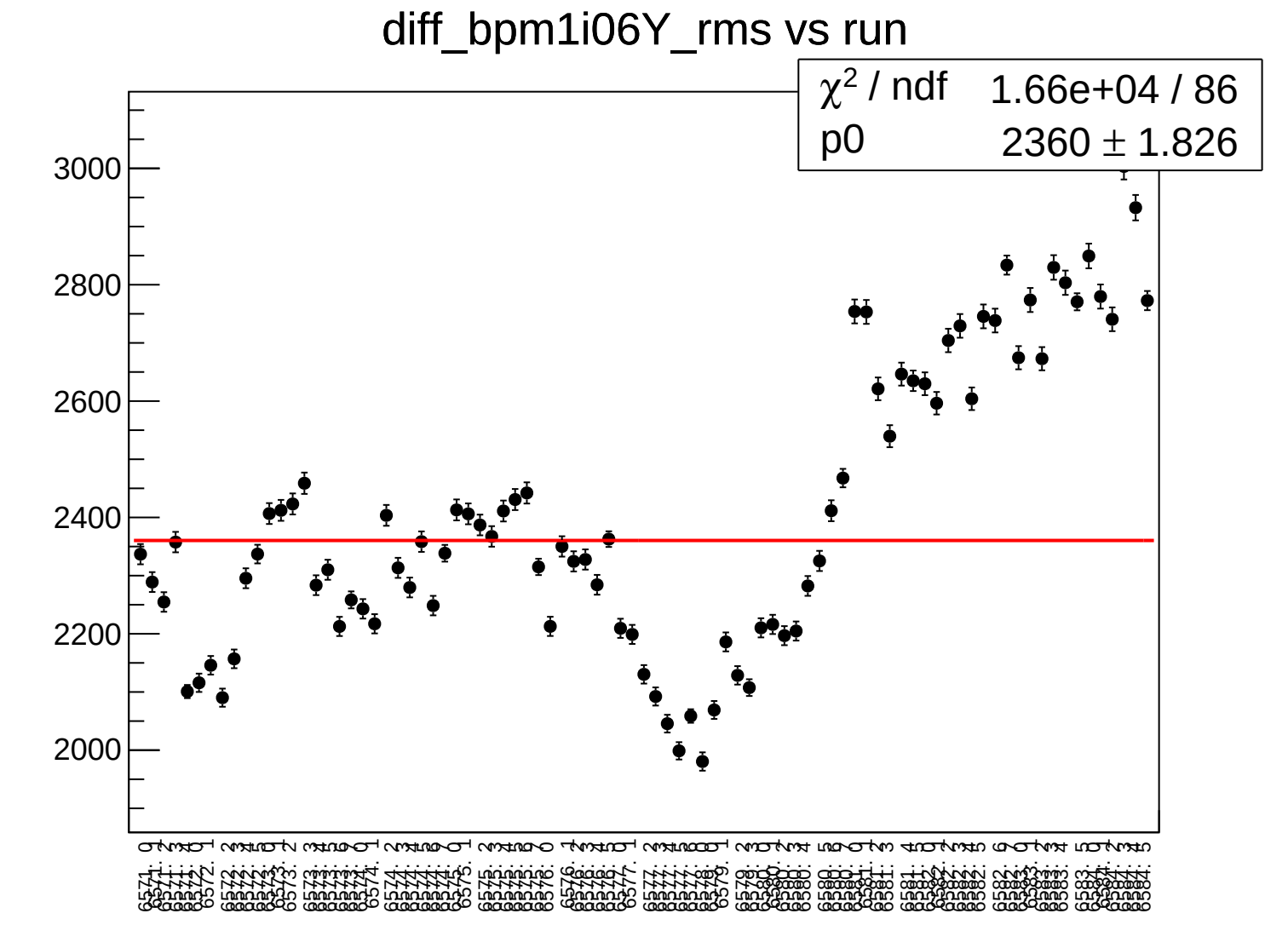

diff_bpm1i06X_mean vs run
χ² / ndf 92.66 / 86
p0 −0.1344 ± 2.15
pull
Entries 87
Mean 115.2
Std Dev 0

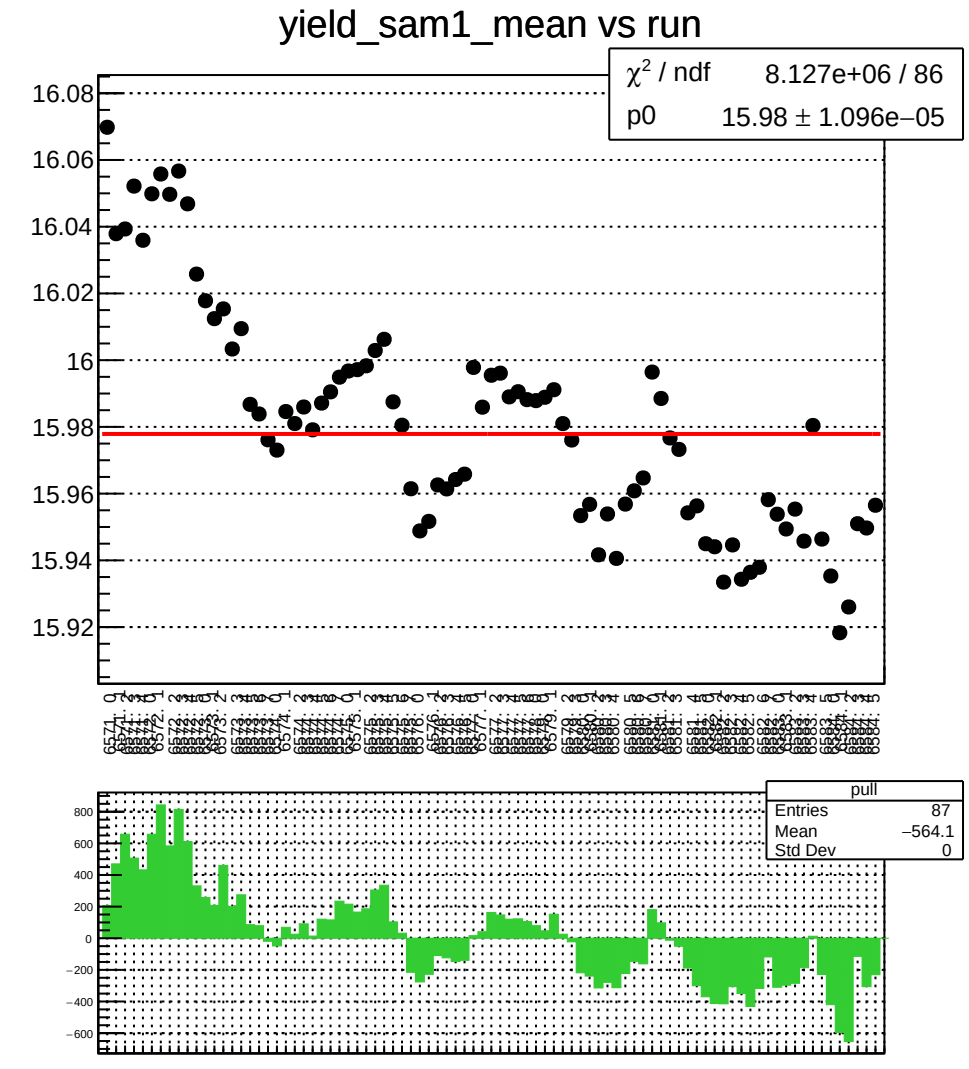

pull1D
Entries 87
Mean 0.01976
Std Dev 1.032

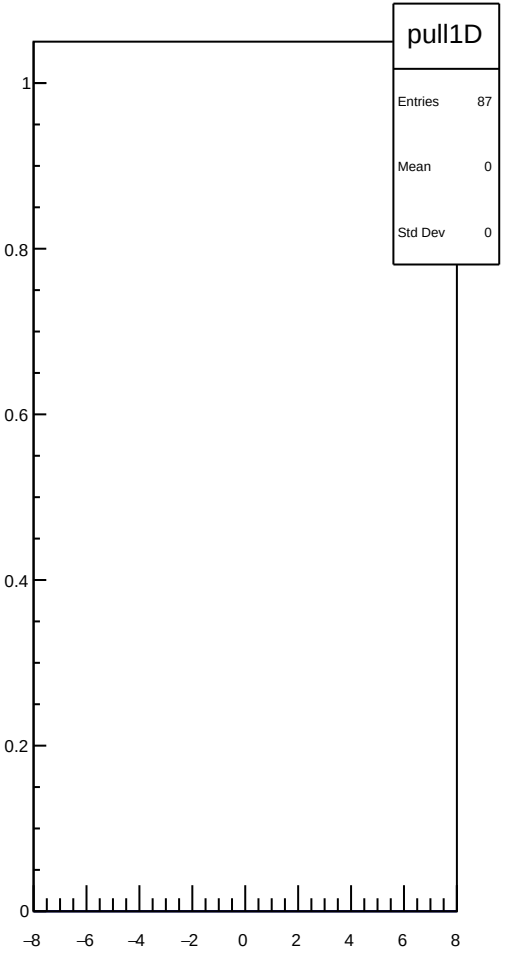

diff_bpm1i06X_rms vs run
χ² / ndf 3.113e+04 / 86
p0 1956 ± 1.52
2800
2600
2400
2200
2000
1800
1600

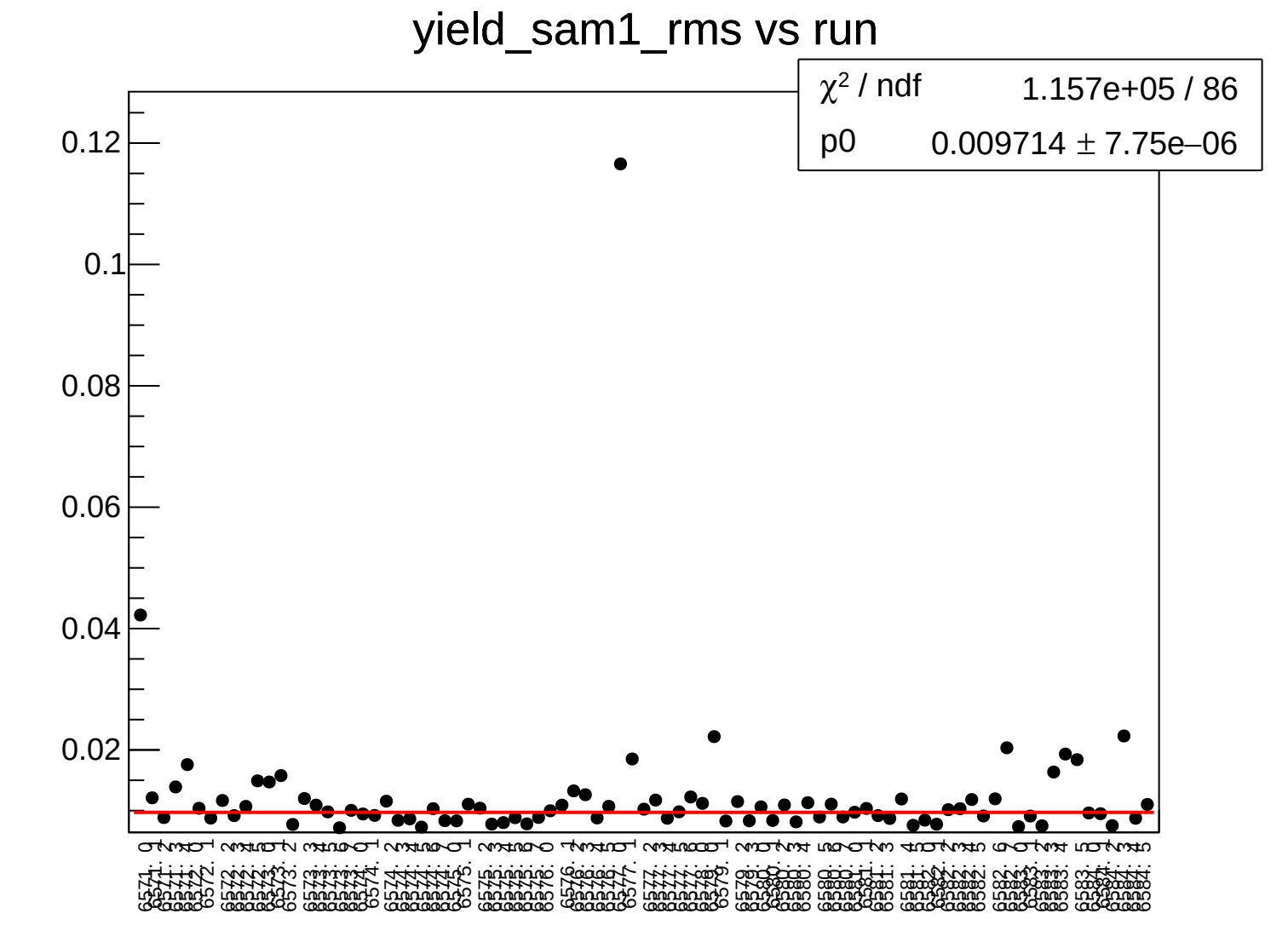

diff_bpm1i06Y_mean vs run
χ² / ndf 72.43 / 86
p0 −11.53 ± 2.583
pull
Entries 87
Mean −146.4
Std Dev 119.3

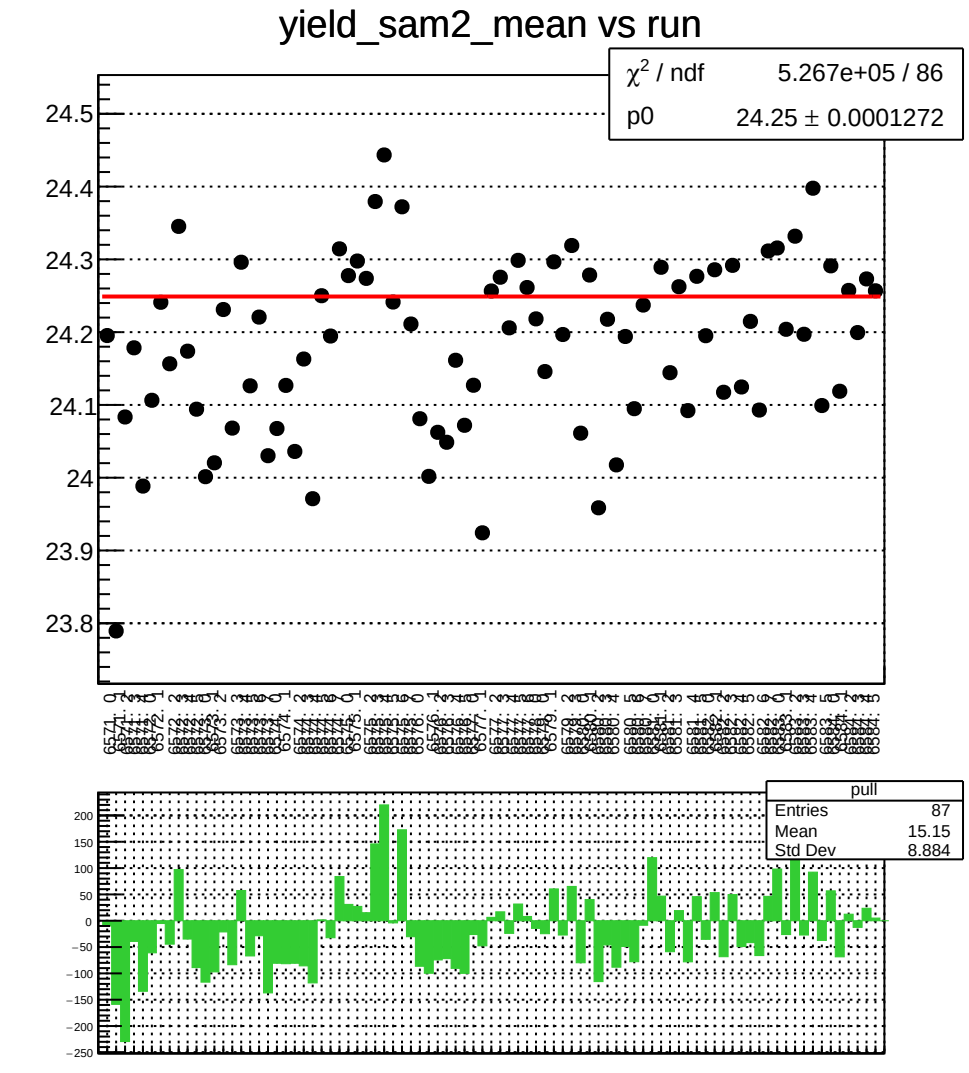

pull1D
Entries 87
Mean 0.001011
Std Dev 0.9125

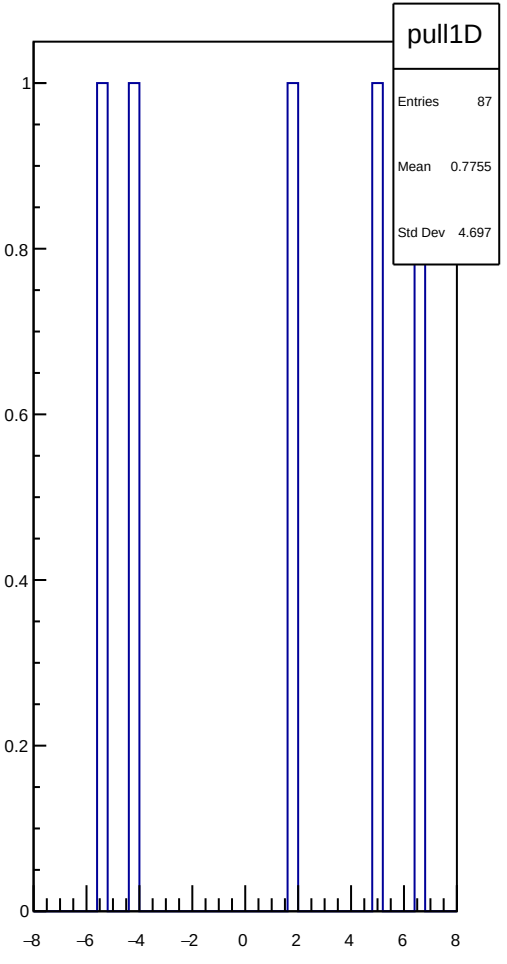

diff_bpm1i06Y_rms vs run
χ² / ndf 1.66e+04 / 86
p0 2360 ± 1.826
3000
2800
2600
2400
2200
2000

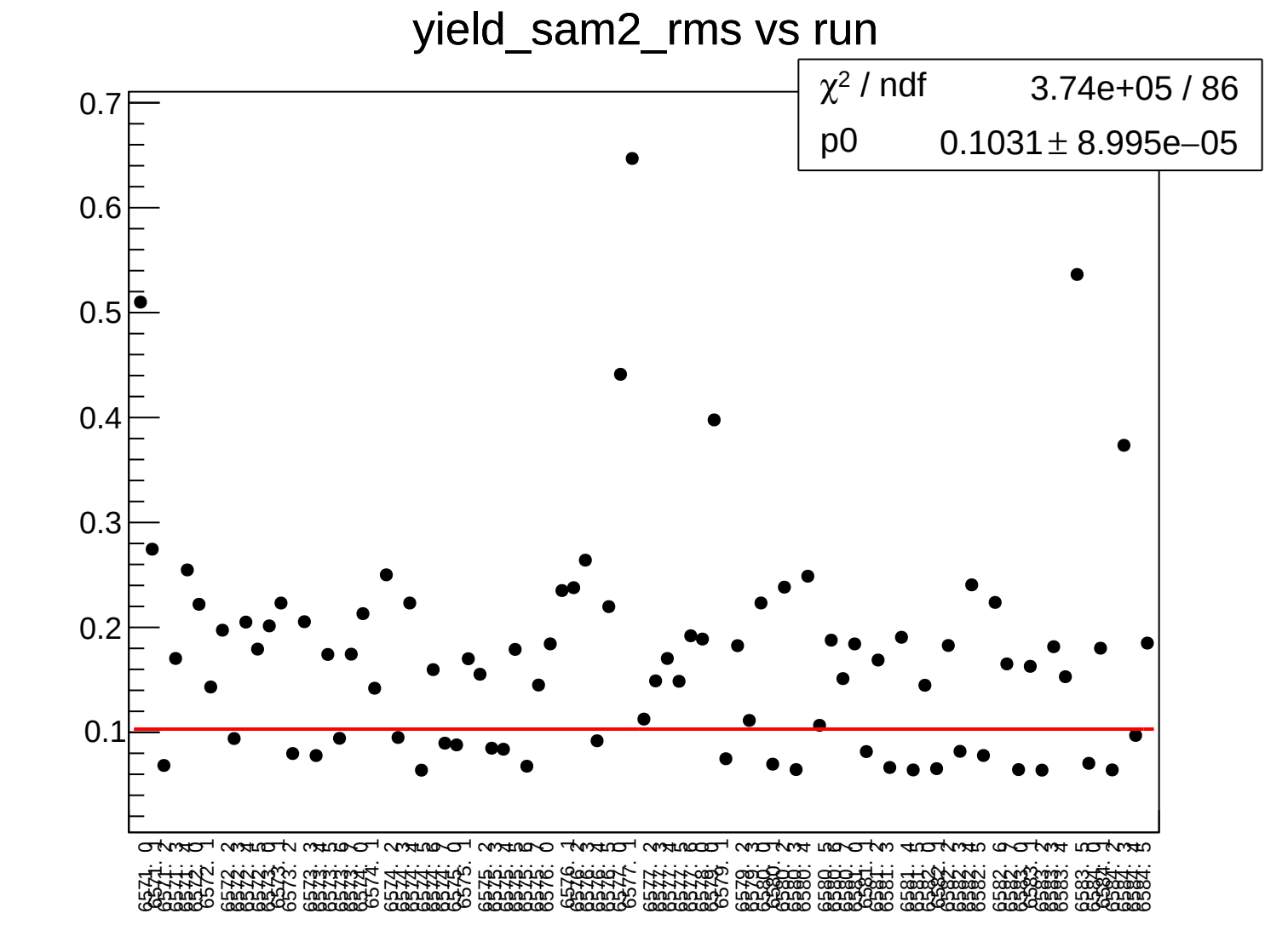

yield_sam1_mean vs run
χ² / ndf 8.127e+06 / 86
p0 15.98 ± 1.096e−05
16.08
16.06
16.04
16.02
16
15.98
15.96
15.94
15.92
pull
Entries 87
Mean −564.1
Std Dev 0
800
600
400
200
0
−200
−400
−600

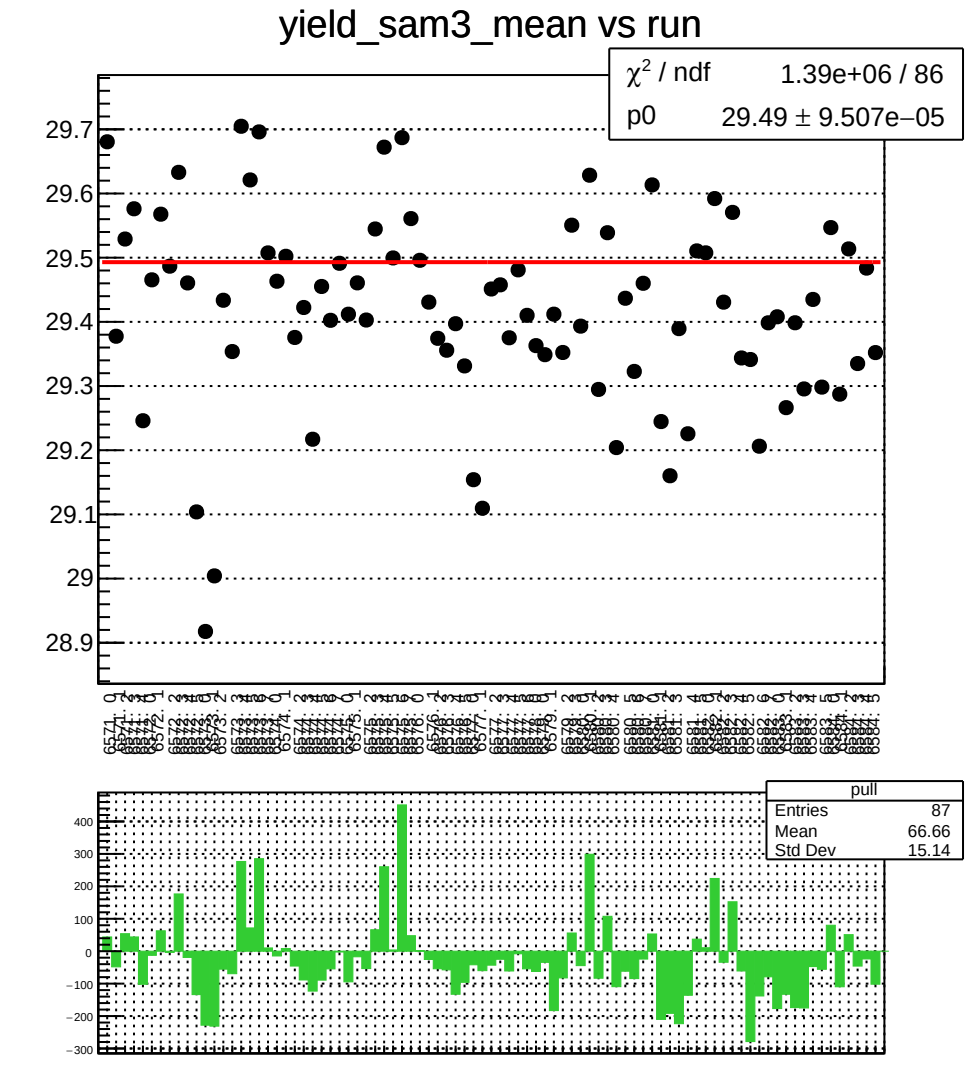

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

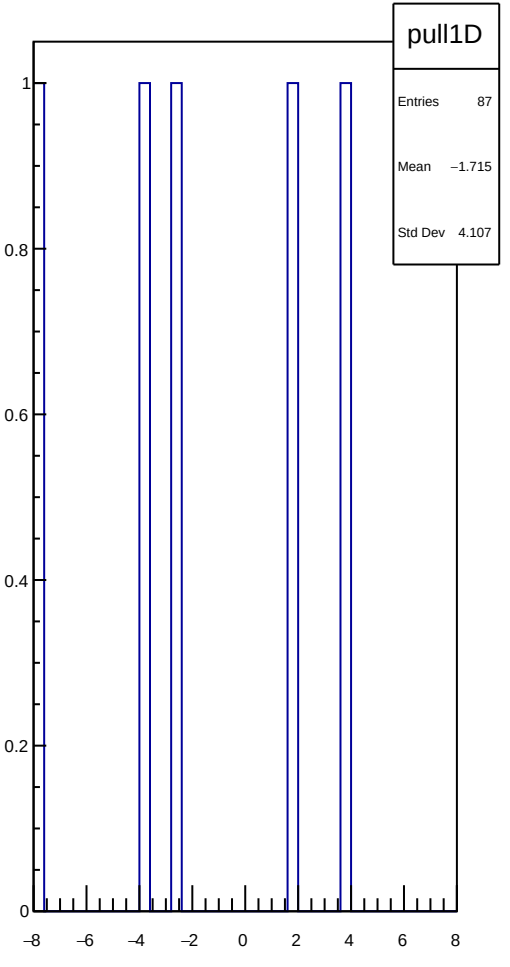

yield_sam1_rms vs run
χ² / ndf 1.157e+05 / 86
p0 0.009714 ± 7.75e−06
0.12
0.1
0.08
0.06
0.04
0.02

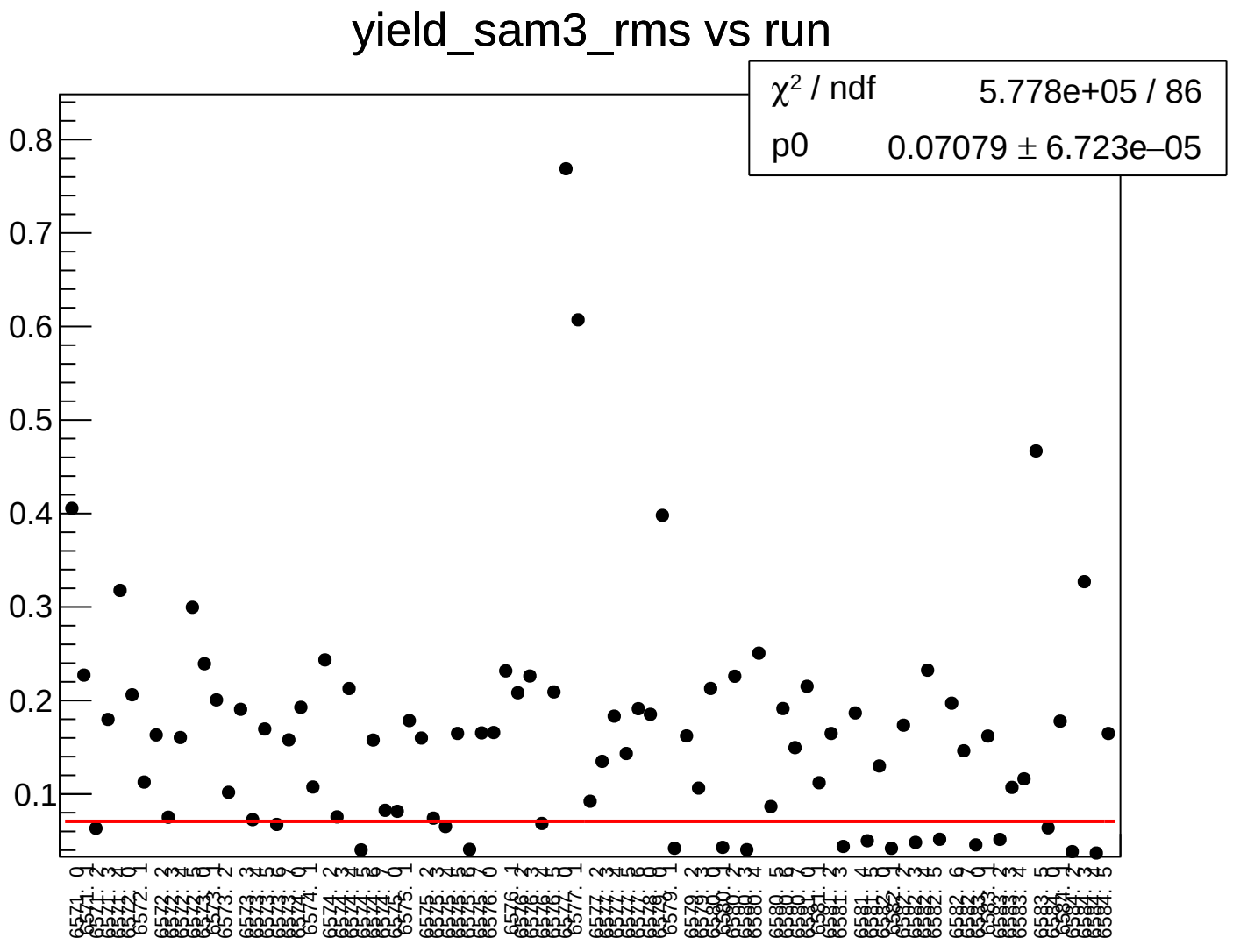

yield_sam2_mean vs run
χ² / ndf 5.267e+05 / 86
p0 24.25 ± 0.0001272
24.5
24.4
24.3
24.2
24.1
24
23.9
23.8
pull
Entries 87
Mean 15.15
Std Dev 8.884
200
150
100
50
0
−50
−100
−150
−200
−250

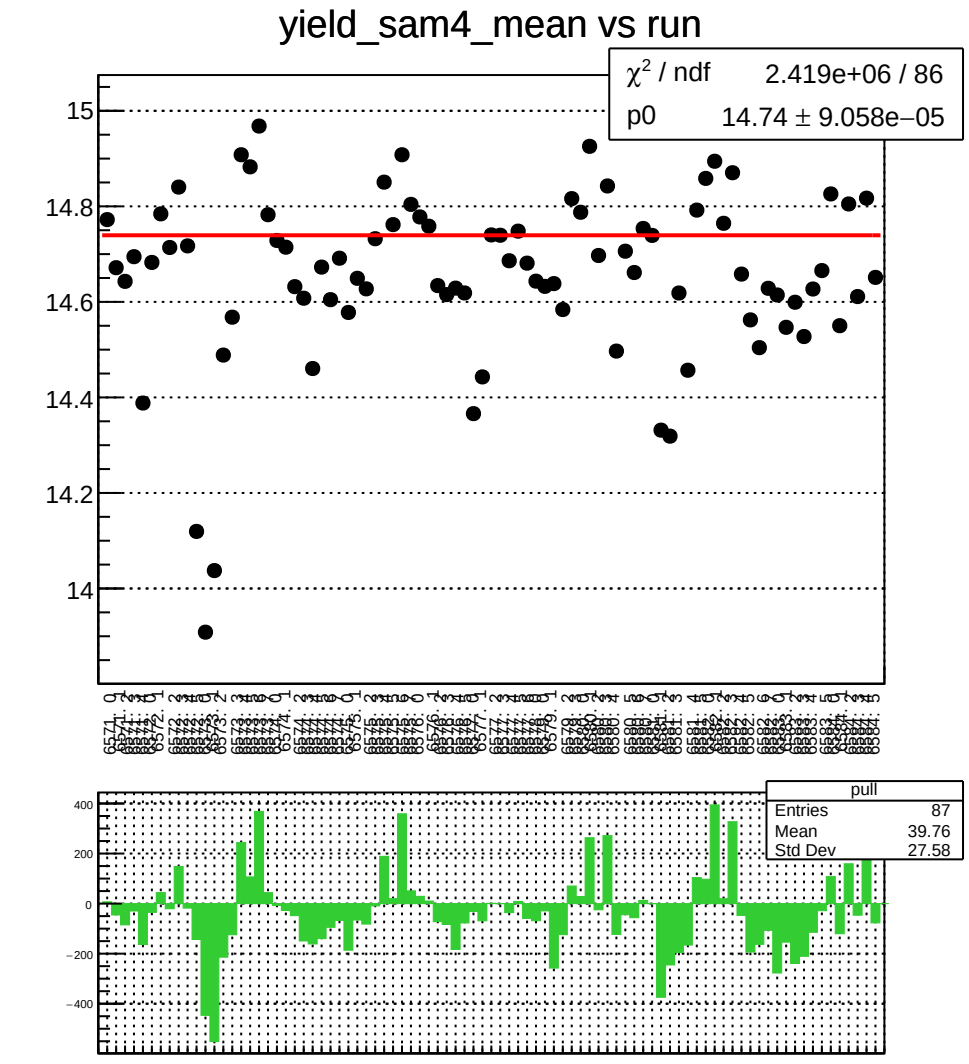

pull1D
Entries 87
Mean 0.7755
Std Dev 4.697
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

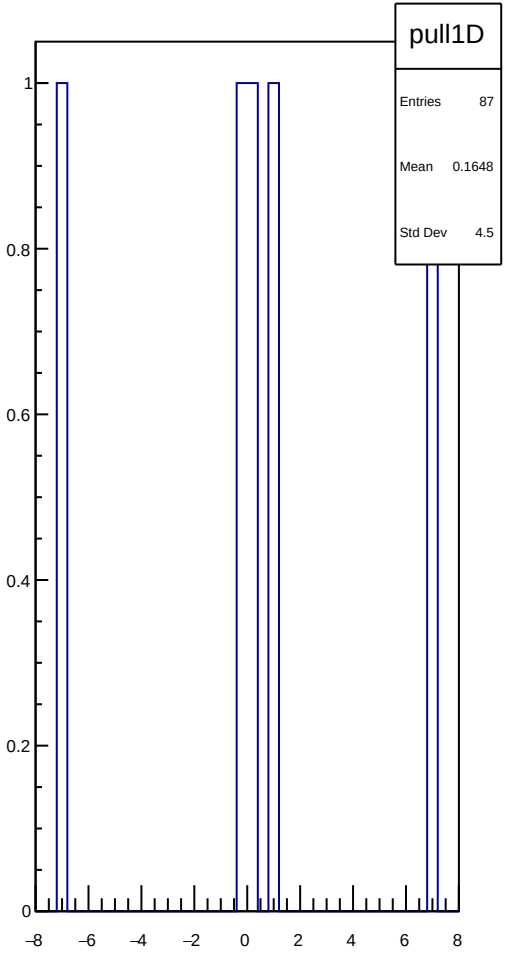

yield_sam2_rms vs run
χ^2 / ndf 3.74e+05 / 86
p0 0.1031 ± 8.995e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

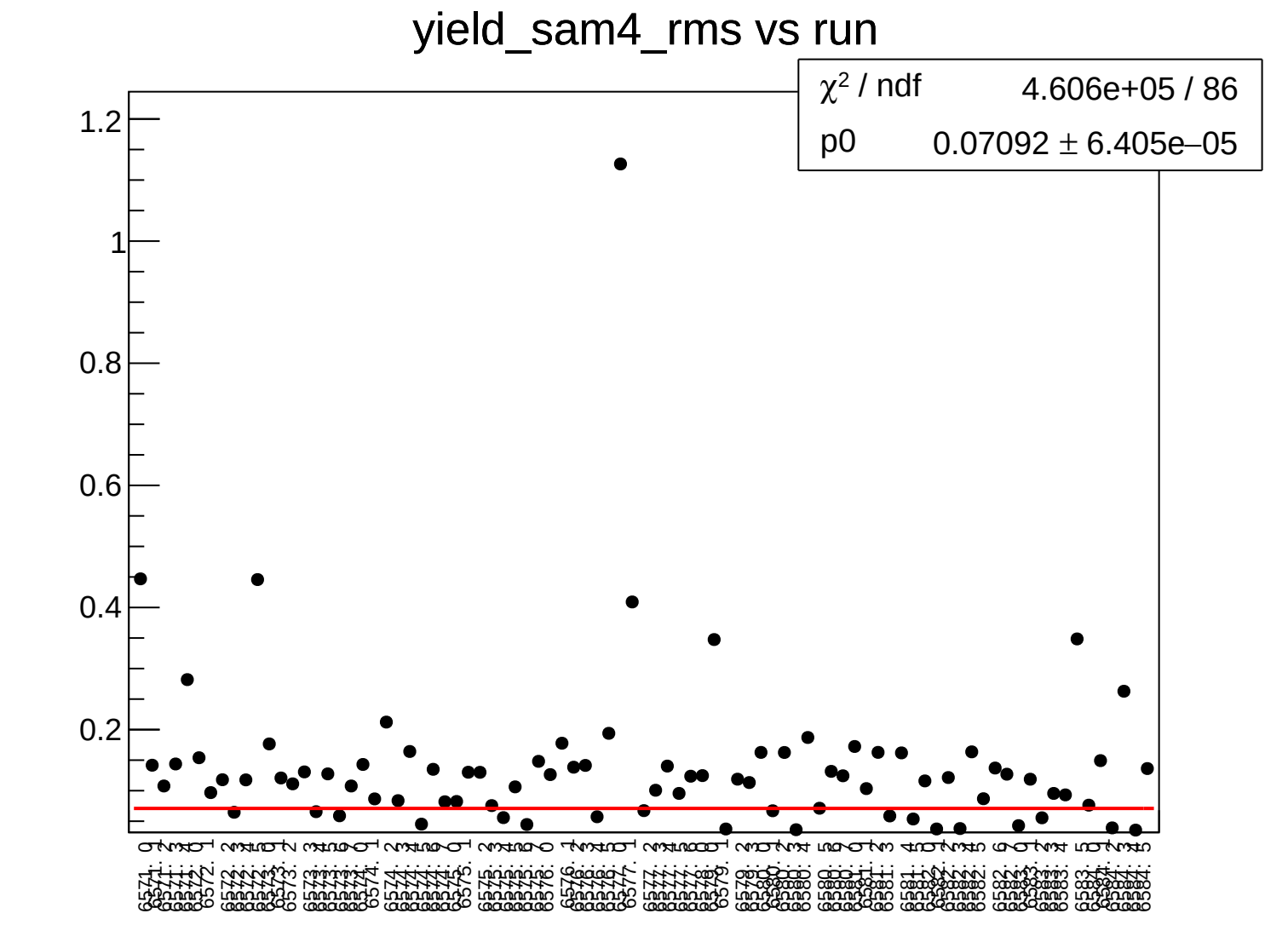

yield_sam3_mean vs run
χ² / ndf 1.39e+06 / 86
p0 29.49 ± 9.507e−05
29.7
29.6
29.5
29.4
29.3
29.2
29.1
29
28.9
pull
Entries 87
Mean 66.66
Std Dev 15.14
400
300
200
100
0
−100
−200
−300

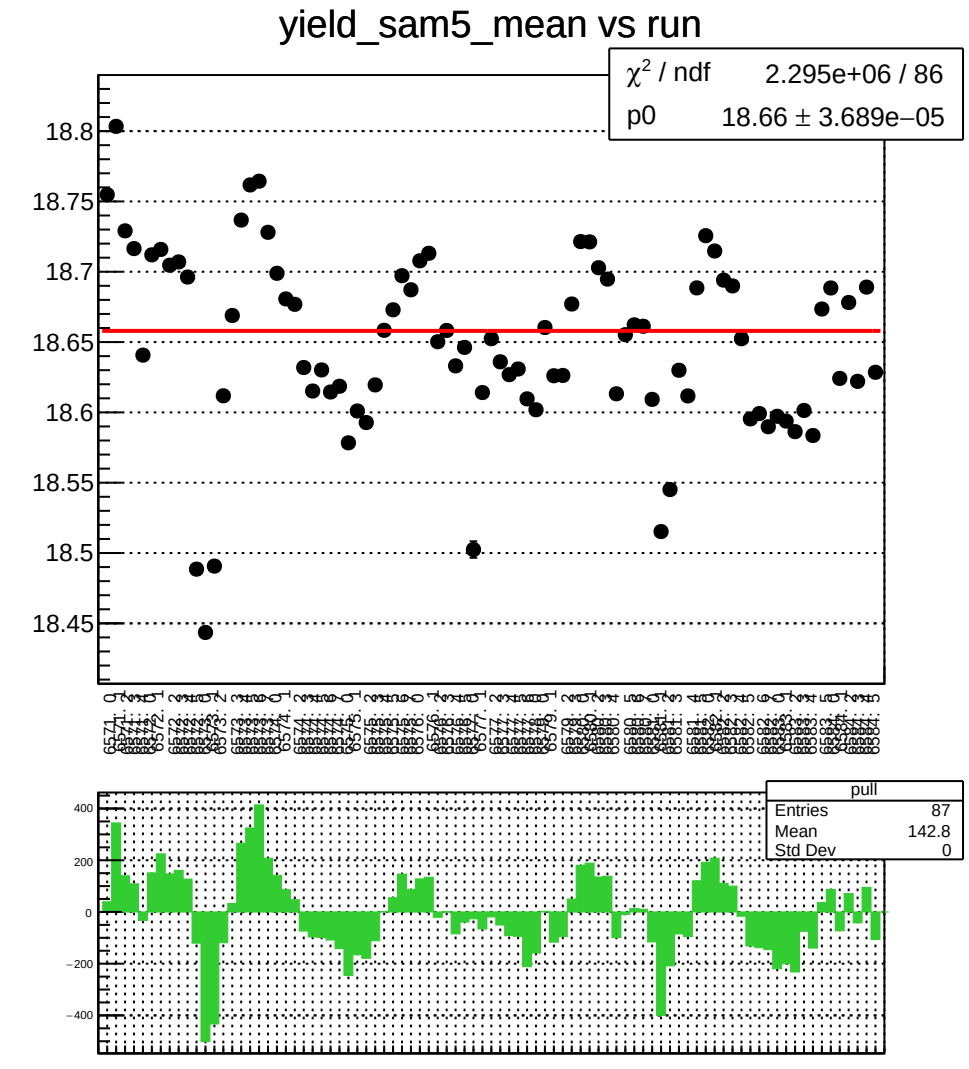

pull1D
Entries 87
Mean −1.715
Std Dev 4.107
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

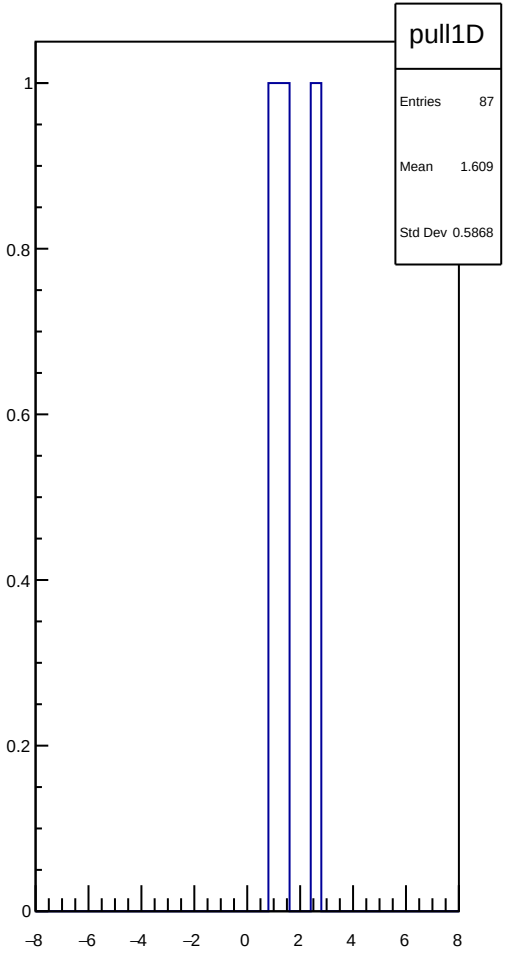

yield_sam3_rms vs run
χ² / ndf 5.778e+05 / 86
p0 0.07079 ± 6.723e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

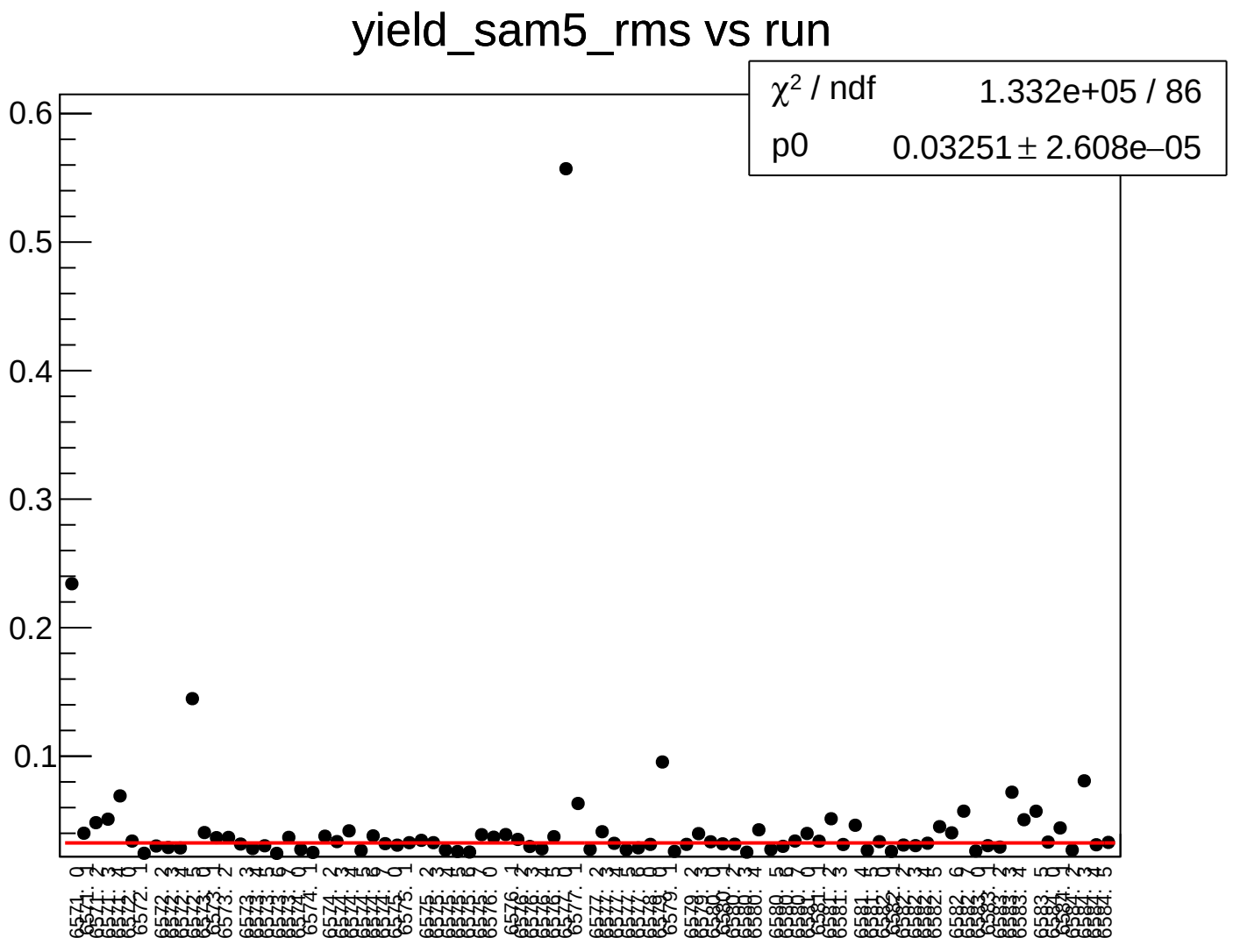

yield_sam4_mean vs run
χ² / ndf 2.419e+06 / 86
p0 14.74 ± 9.058e−05
15
14.8
14.6
14.4
14.2
14
pull
Entries 87
Mean 39.76
Std Dev 27.58
400
200
0
−200
−400

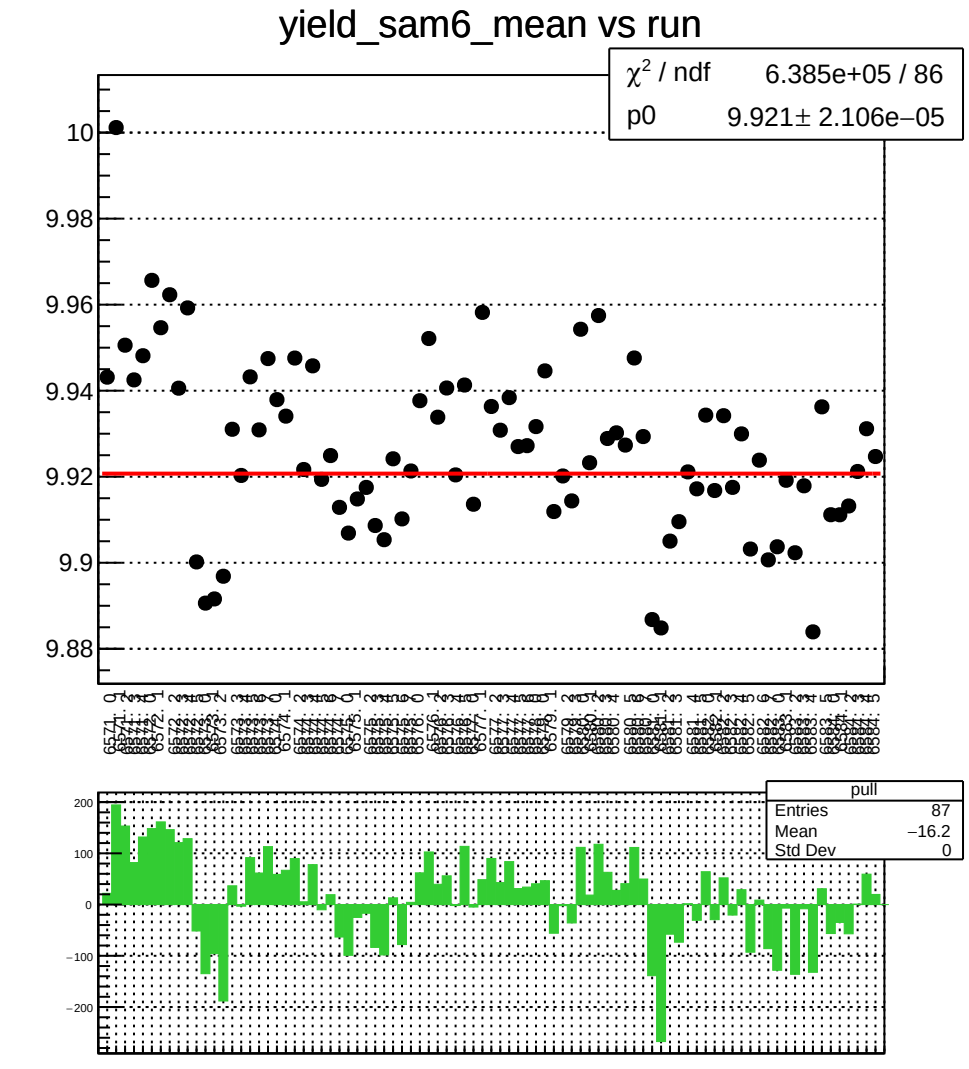

pull1D
Entries 87
Mean 0.1648
Std Dev 4.5
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

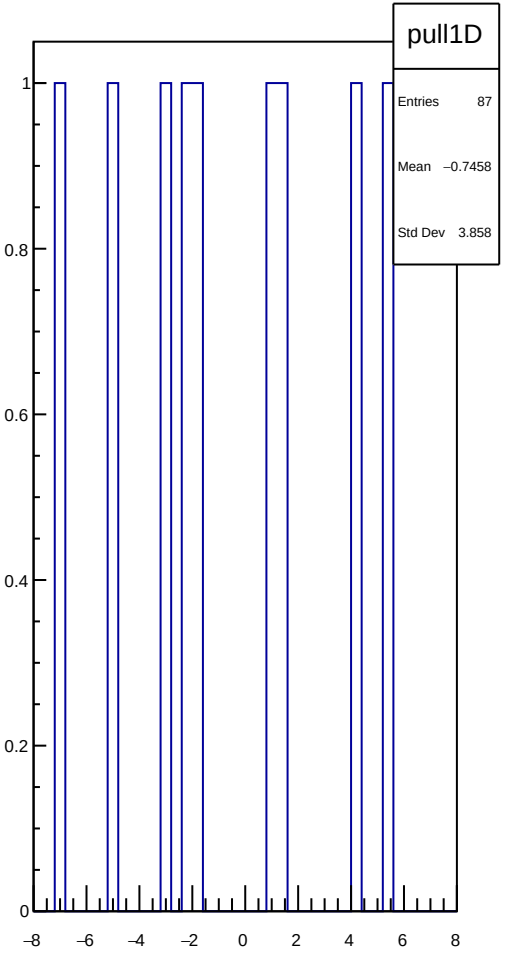

yield_sam4_rms vs run
χ² / ndf 4.606e+05 / 86
p0 0.07092 ± 6.405e−05
1.2
1
0.8
0.6
0.4
0.2

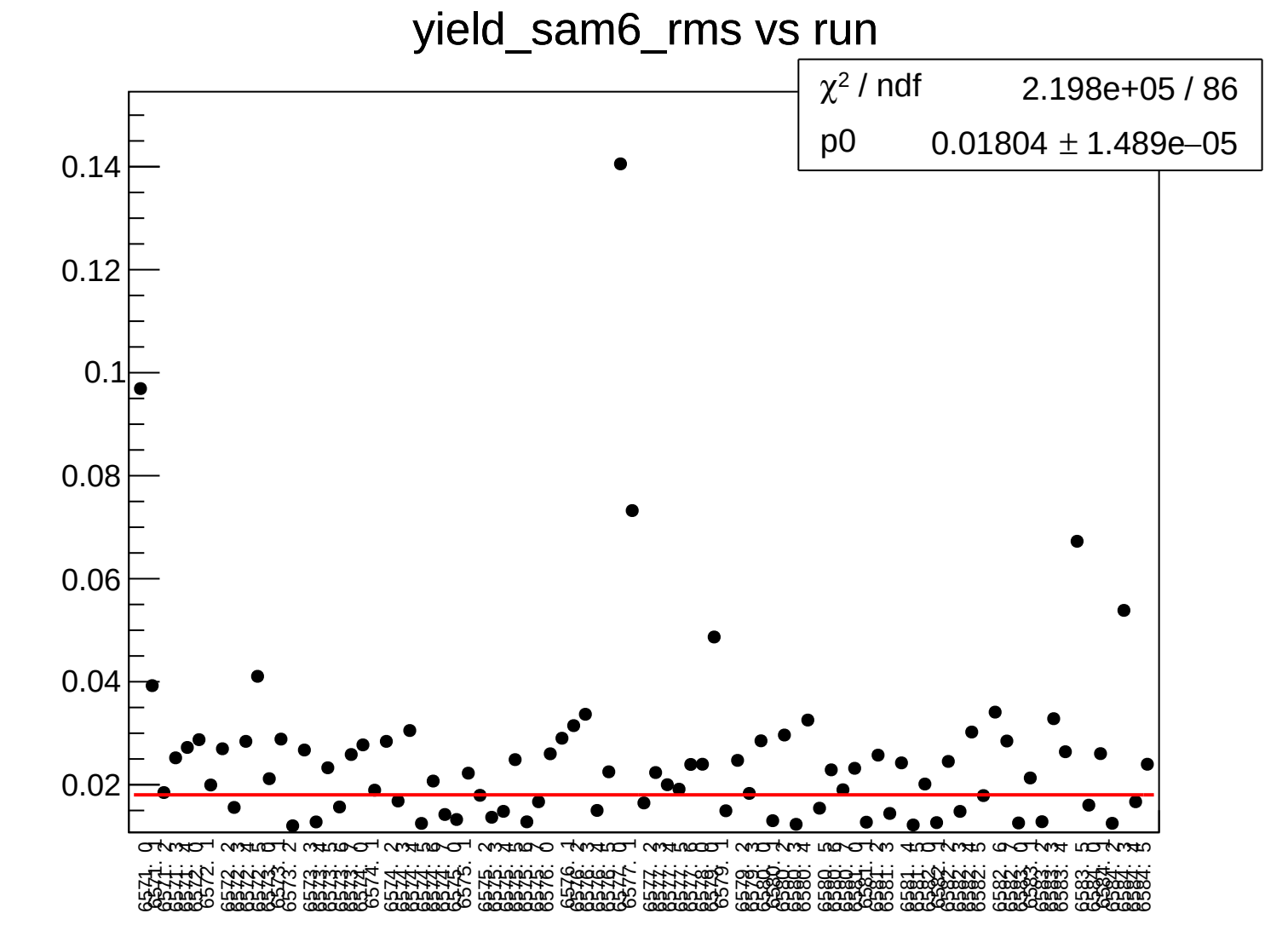

yield_sam5_mean vs run
χ² / ndf 2.295e+06 / 86
p0 18.66 ± 3.689e−05
18.8
18.75
18.7
18.65
18.6
18.55
18.5
18.45
pull
Entries 87
Mean 142.8
Std Dev 0
400
200
0
−200
−400

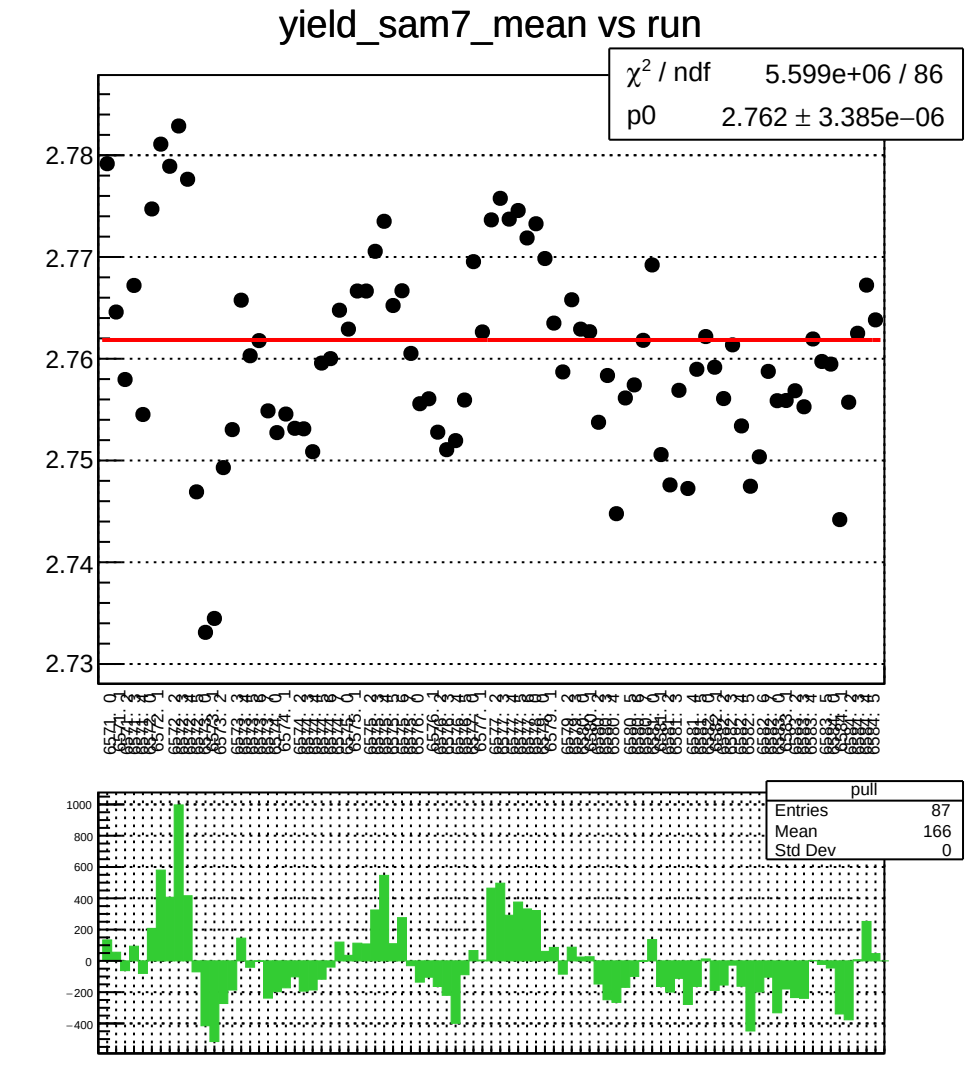

pull1D
Entries 87
Mean 1.609
Std Dev 0.5868
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

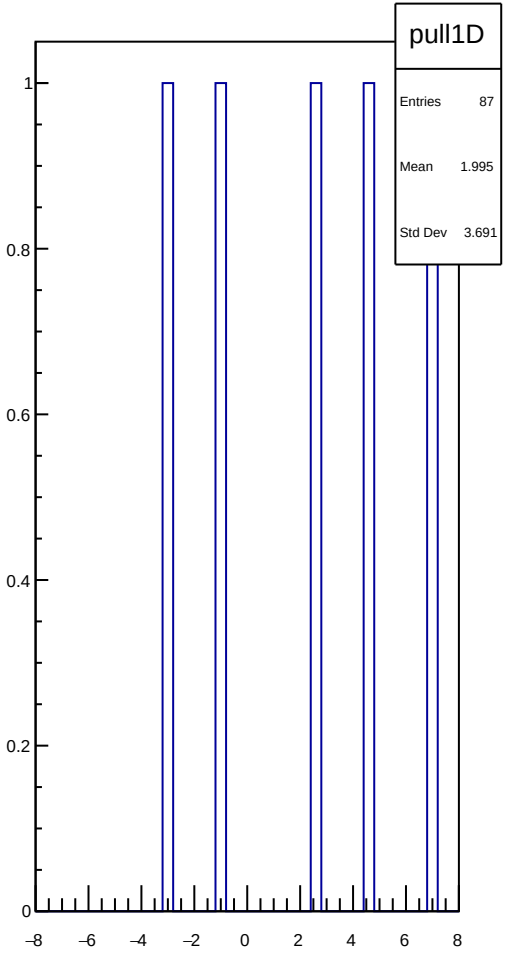

yield_sam5_rms vs run
χ² / ndf 1.332e+05 / 86
p0 0.03251 ± 2.608e–05
0.6
0.5
0.4
0.3
0.2
0.1

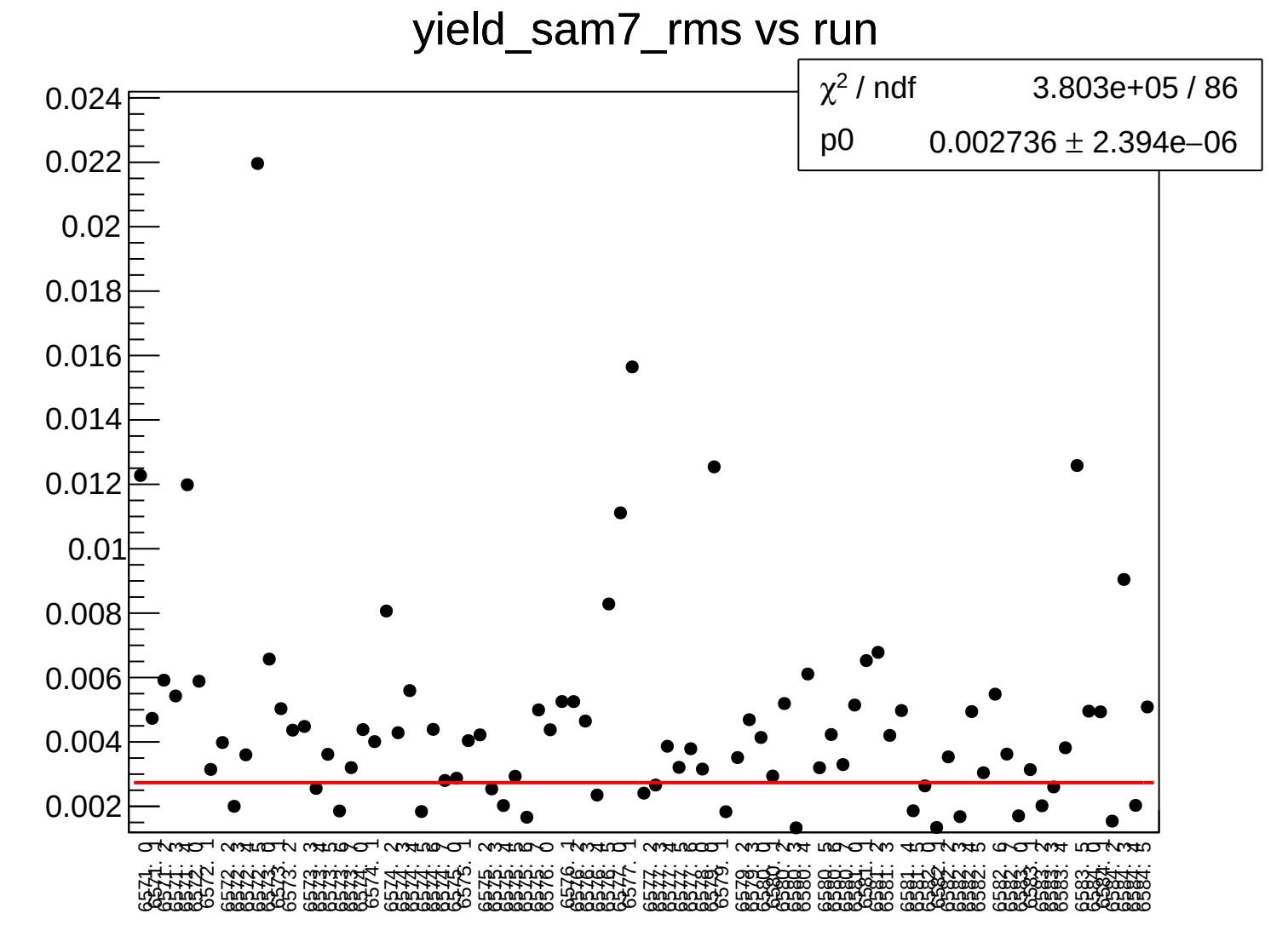

yield_sam6_mean vs run
χ² / ndf 6.385e+05 / 86
p0 9.921± 2.106e−05
10
9.98
9.96
9.94
9.92
9.9
9.88
pull
Entries 87
Mean −16.2
Std Dev 0
200
100
0
−100
−200

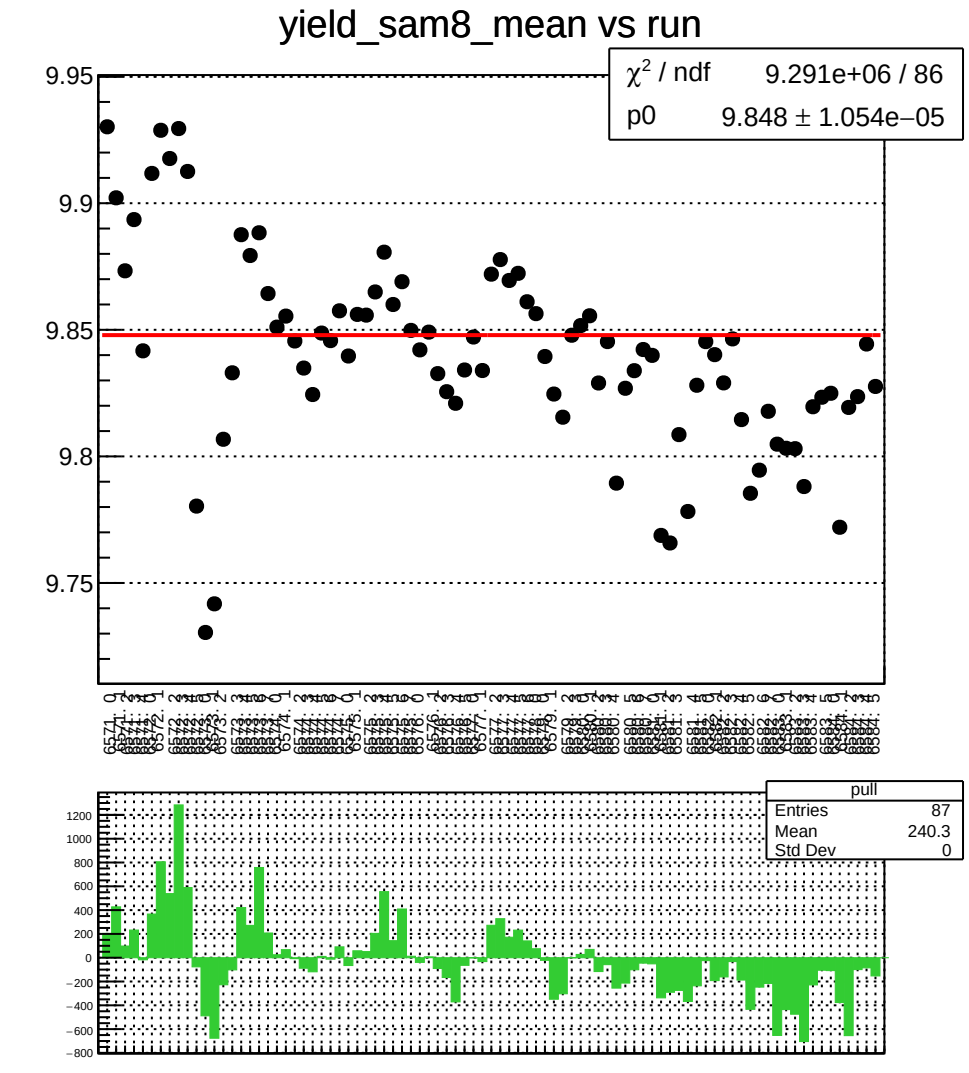

pull1D
Entries 87
Mean −0.7458
Std Dev 3.858
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

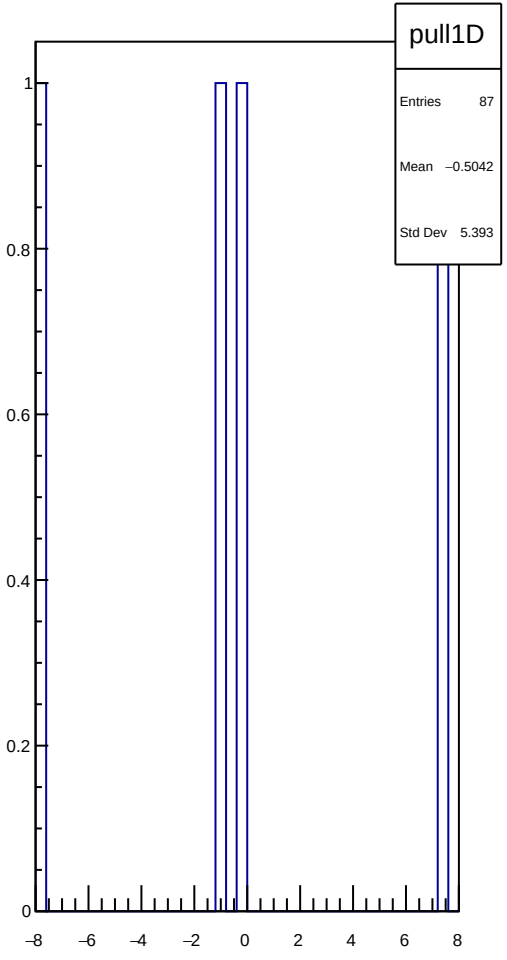

yield_sam6_rms vs run
χ² / ndf 2.198e+05 / 86
p0 0.01804 ± 1.489e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

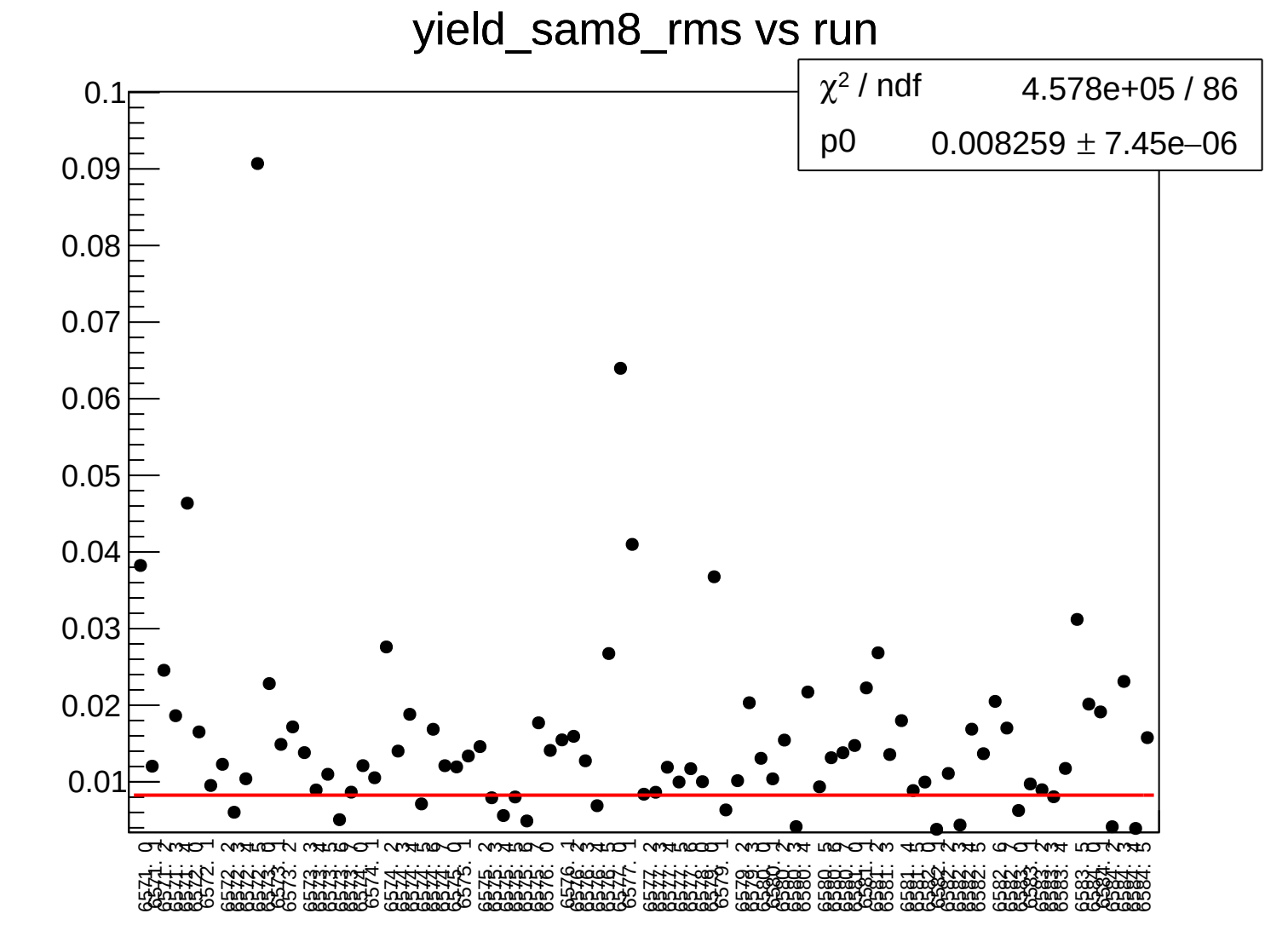

yield_sam7_mean vs run
χ² / ndf 5.599e+06 / 86
p0 2.762 ± 3.385e−06
2.78
2.77
2.76
2.75
2.74
2.73
pull
Entries 87
Mean 166
Std Dev 0
1000
800
600
400
200
0
−200
−400

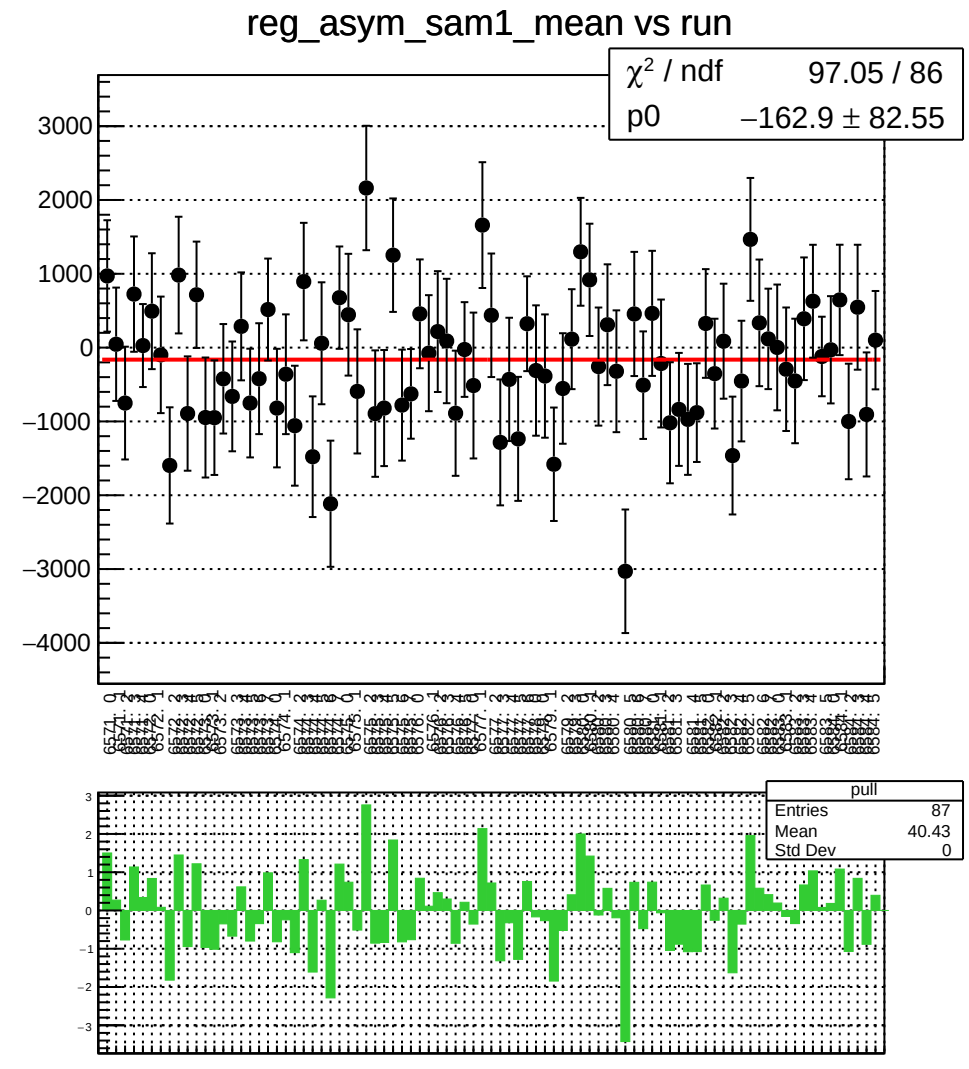

pull1D
Entries 87
Mean 1.995
Std Dev 3.691
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

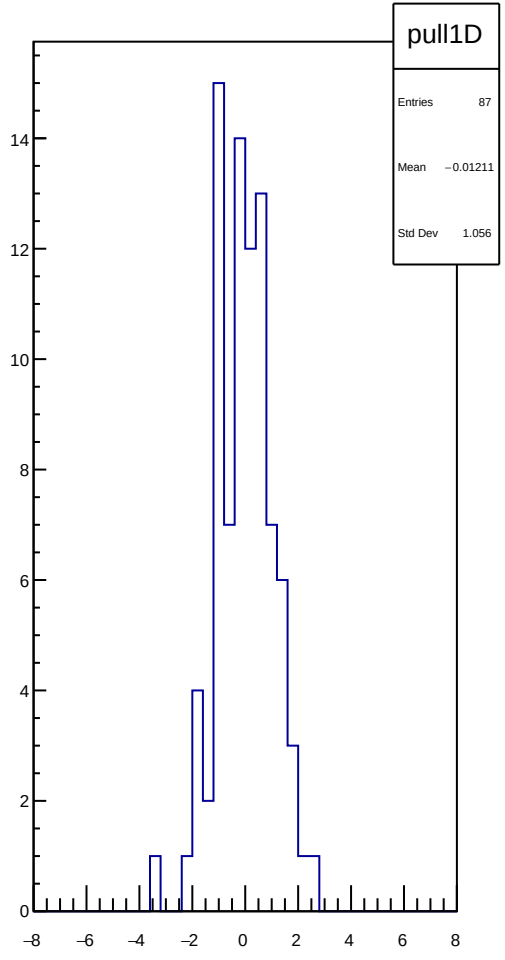

yield_sam7_rms vs run
χ² / ndf 3.803e+05 / 86
p0 0.002736 ± 2.394e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

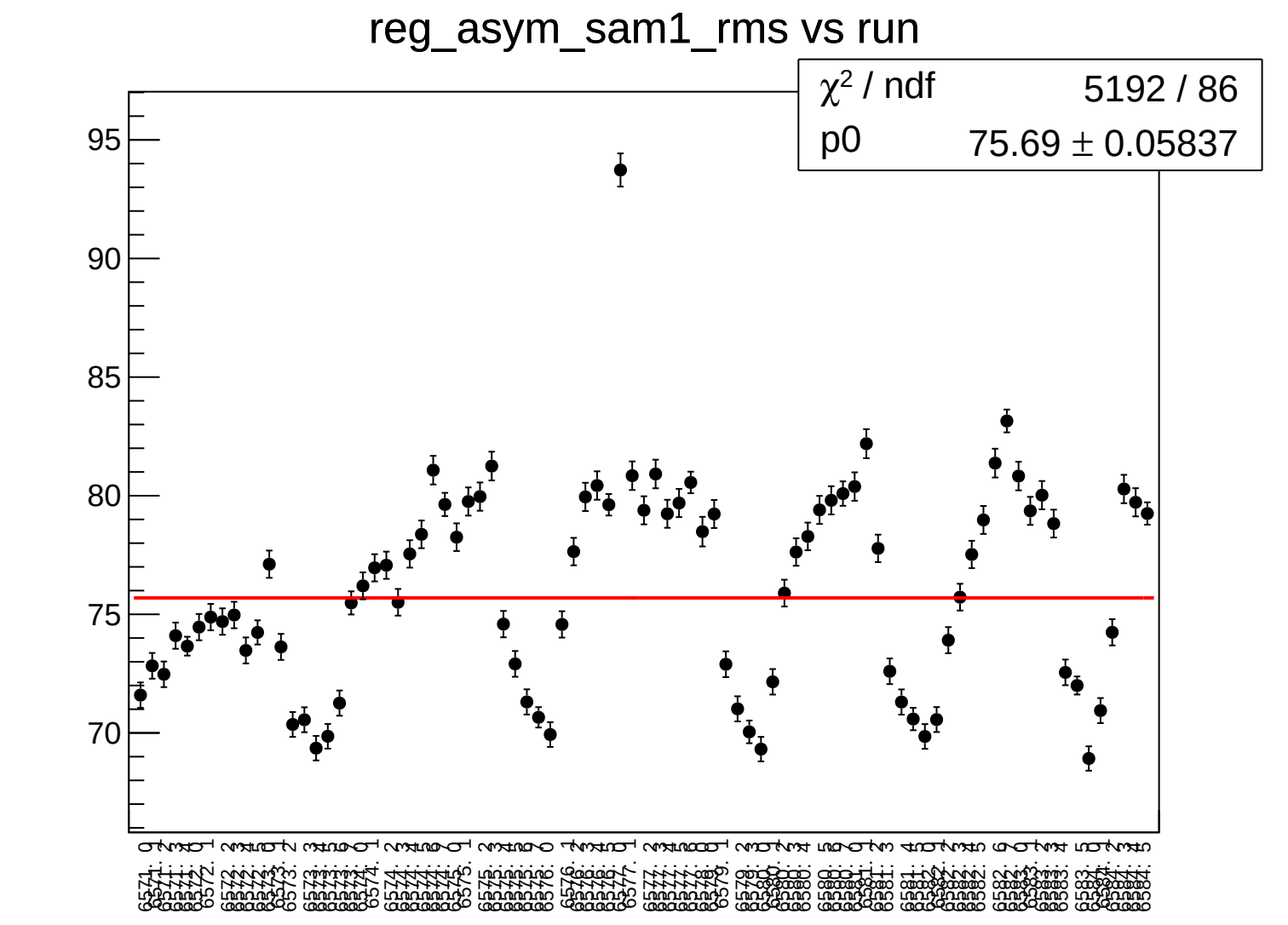

yield_sam8_mean vs run
χ² / ndf 9.291e+06 / 86
p0 9.848 ± 1.054e−05
9.95
9.9
9.85
9.8
9.75
pull
Entries 87
Mean 240.3
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

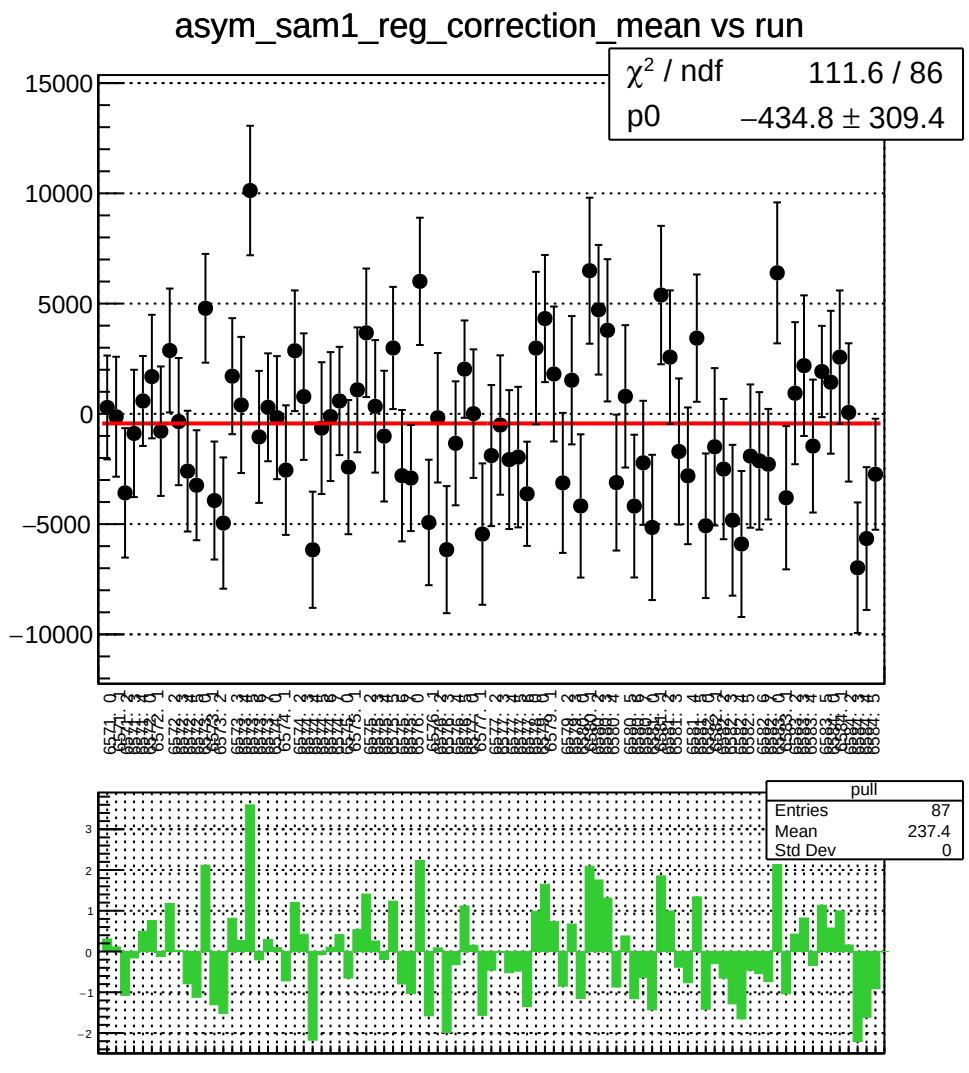

pull1D
Entries 87
Mean −0.5042
Std Dev 5.393
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

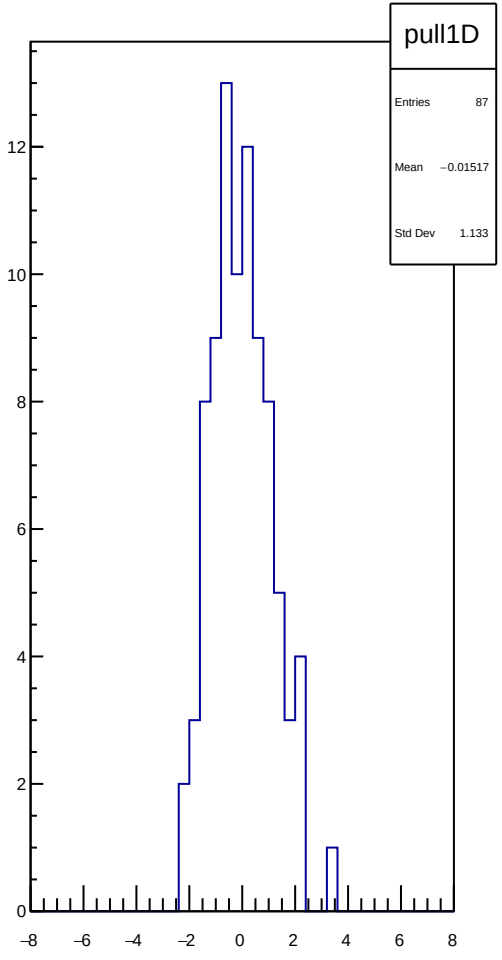

yield_sam8_rms vs run
χ² / ndf 4.578e+05 / 86
p0 0.008259 ± 7.45e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

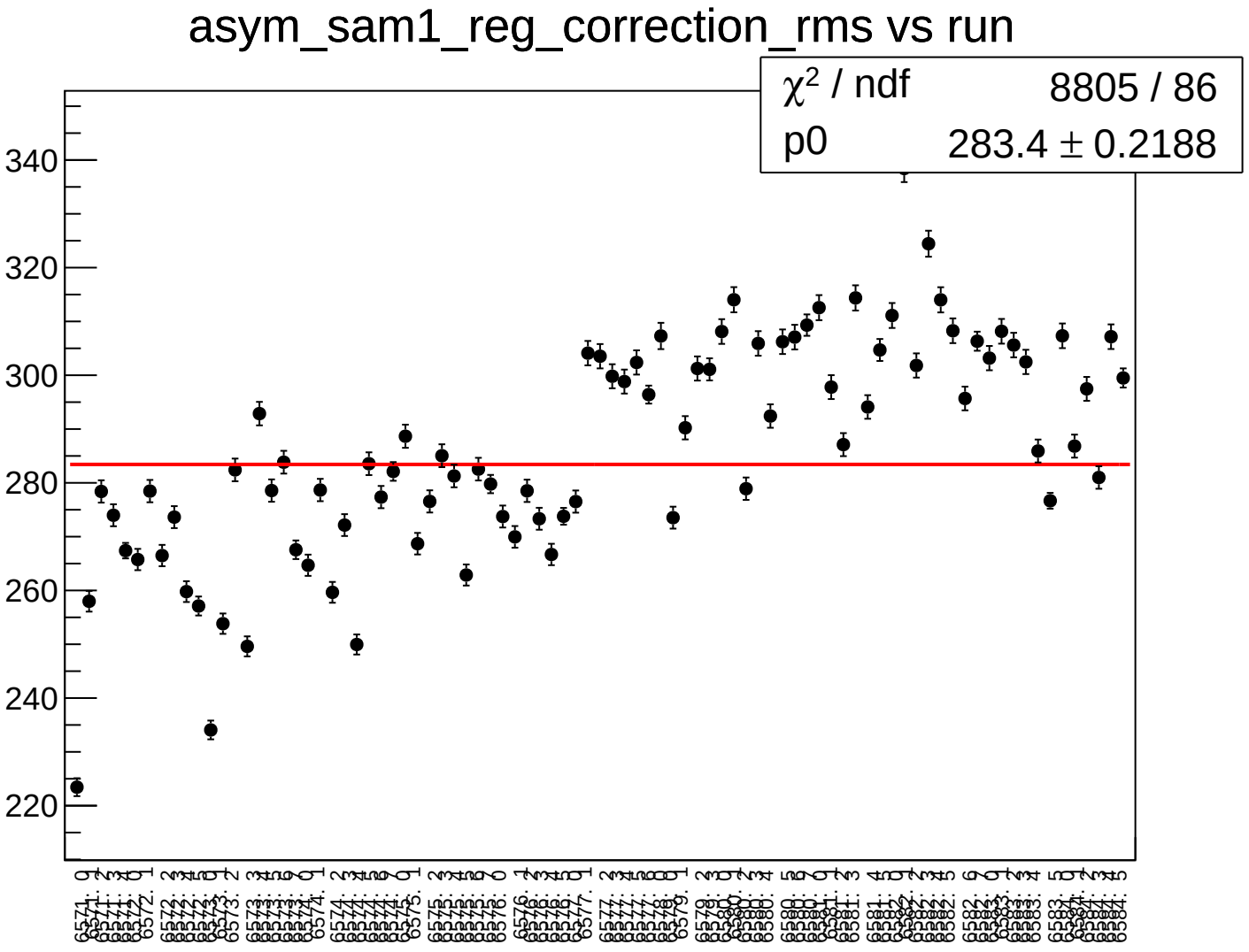

reg_asym_sam1_mean vs run
χ² / ndf 97.05 / 86
p0 −162.9 ± 82.55
pull
Entries 87
Mean 40.43
Std Dev 0

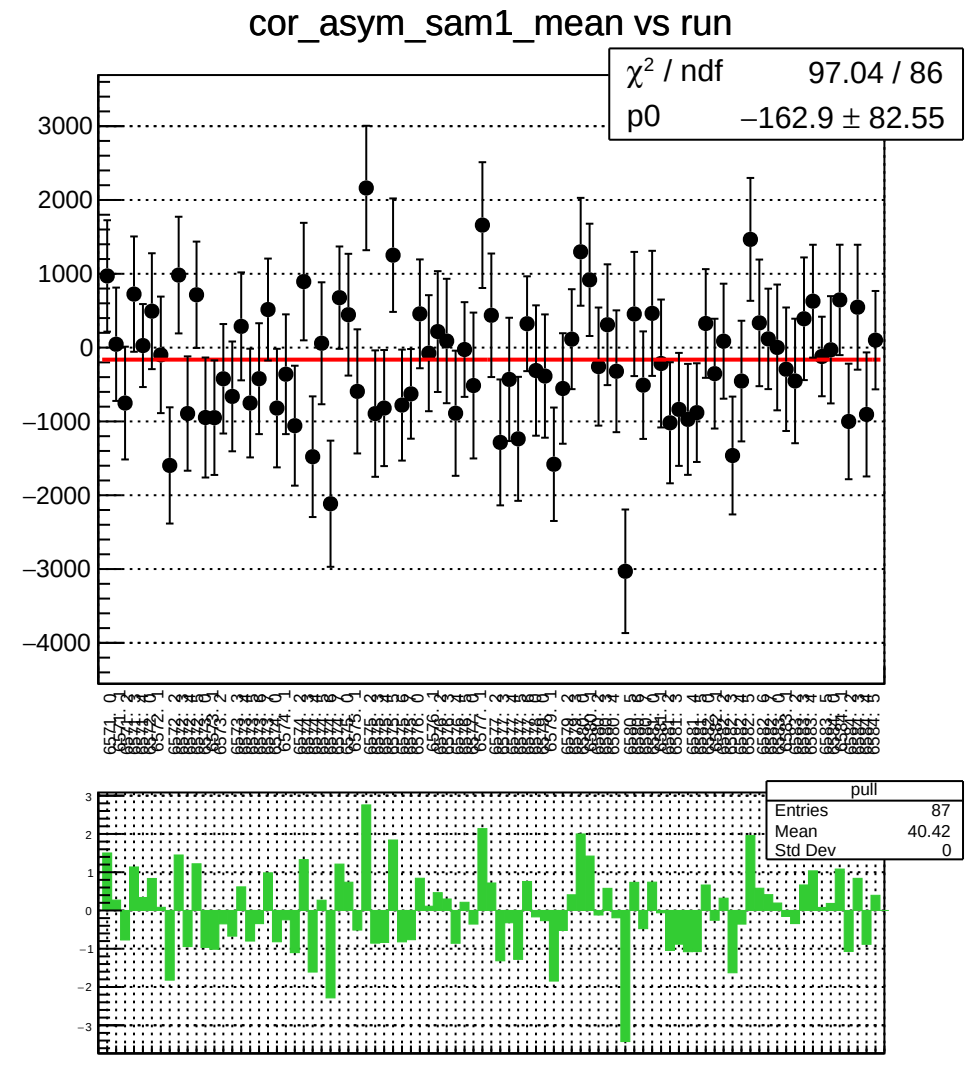

pull1D
Entries 87
Mean −0.01211
Std Dev 1.056

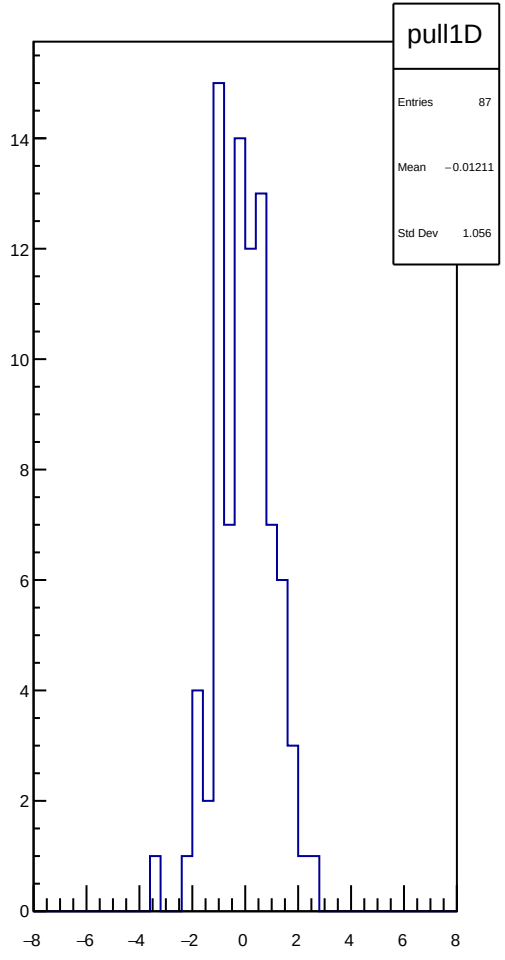

reg_asym_sam1_rms vs run
χ^2 / ndf 5192 / 86
p0 75.69 ± 0.05837
95
90
85
80
75
70

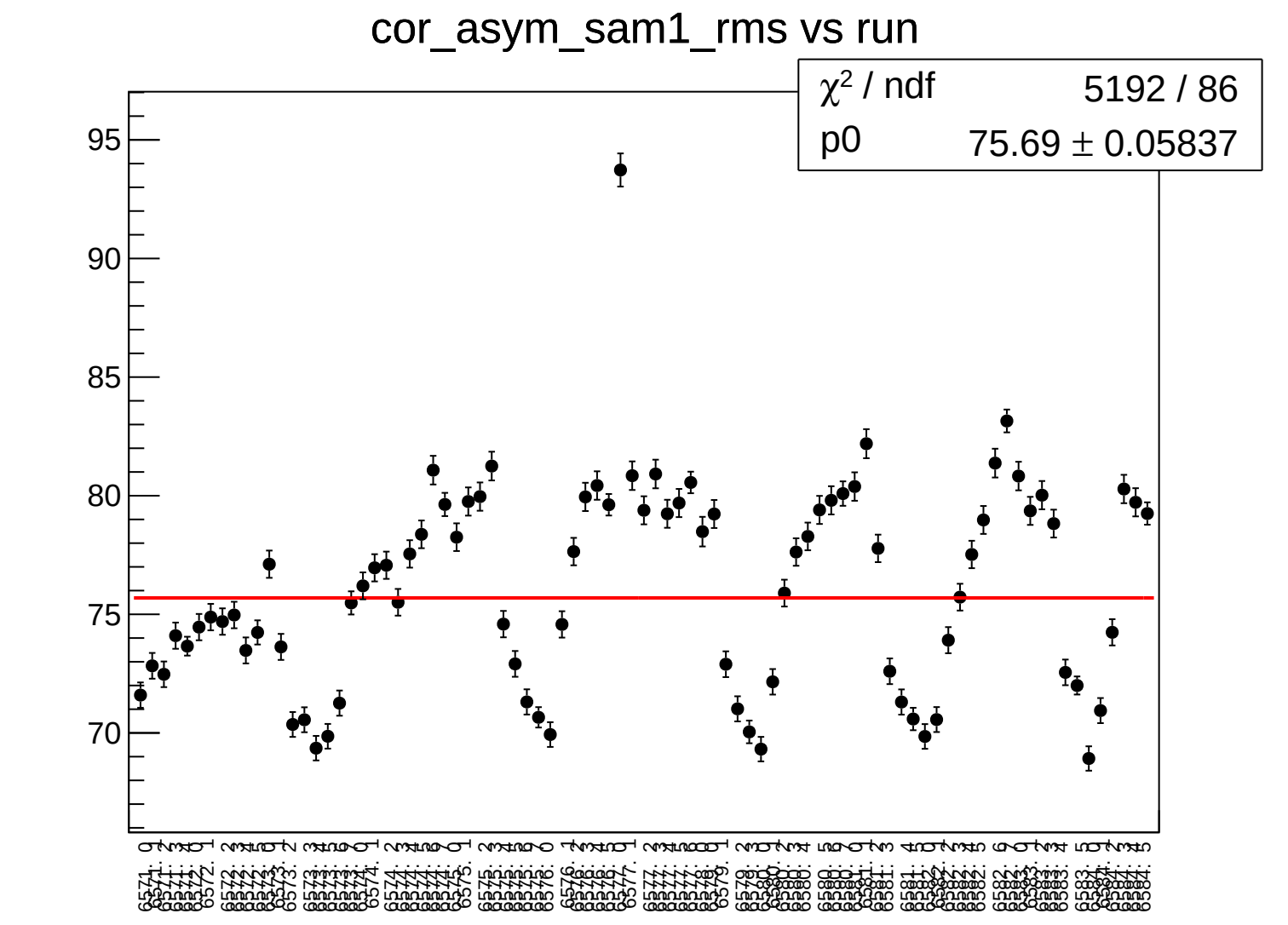

asym_sam1_reg_correction_mean vs run
χ² / ndf 111.6 / 86
p0 −434.8 ± 309.4
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 237.4
Std Dev 0
3
2
1
0
−1
−2

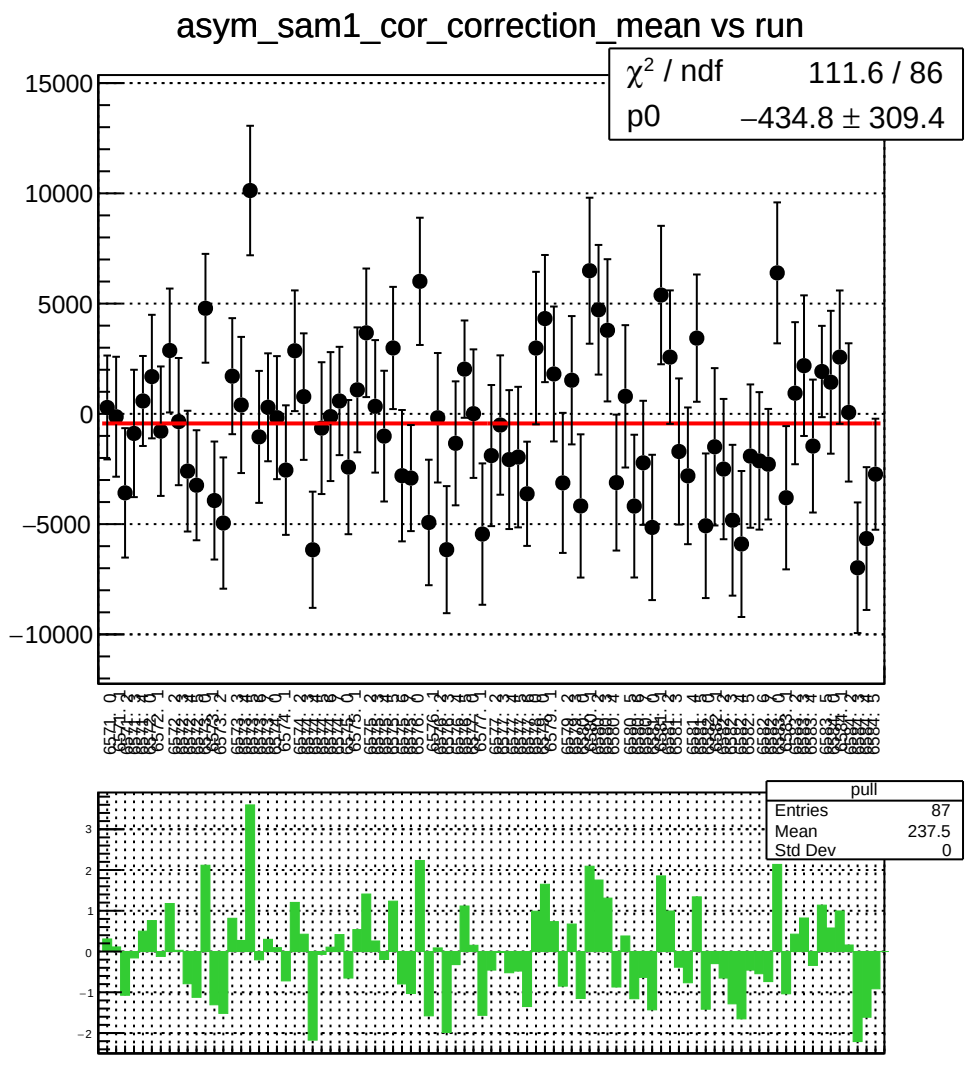

pull1D
Entries 87
Mean −0.01517
Std Dev 1.133
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

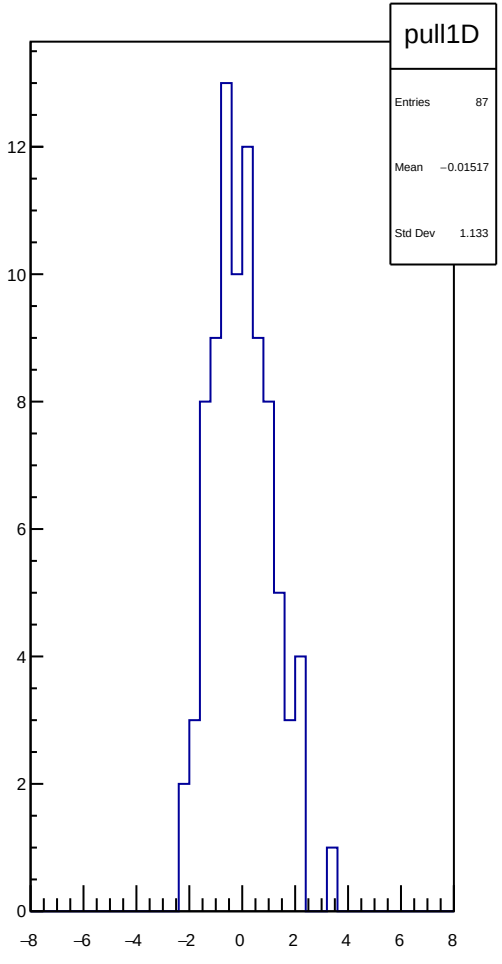

asym_sam1_reg_correction_rms vs run
χ² / ndf 8805 / 86
p0 283.4 ± 0.2188
340
320
300
280
260
240
220

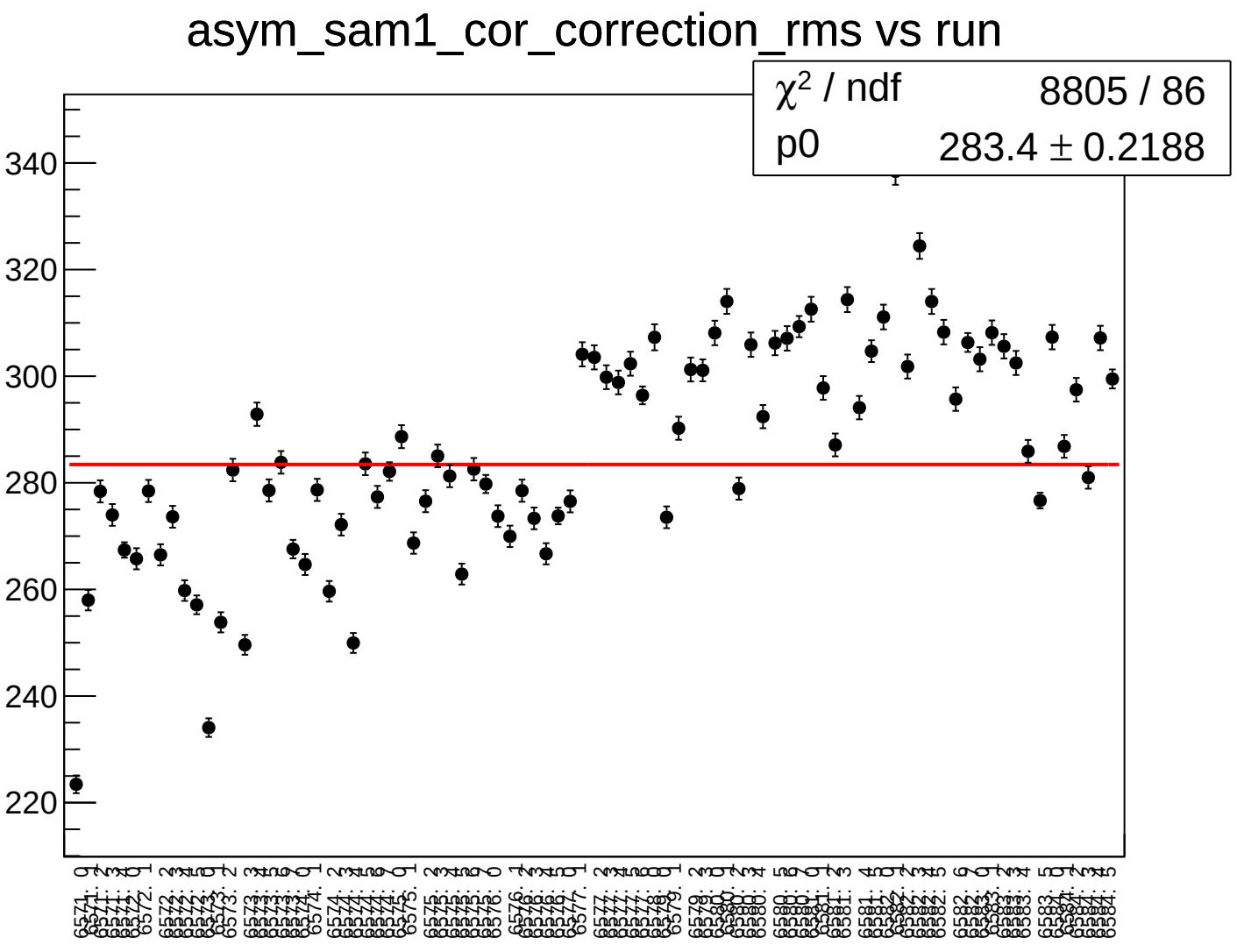

cor_asym_sam1_mean vs run
χ² / ndf 97.04 / 86
p0 −162.9 ± 82.55
pull
Entries 87
Mean 40.42
Std Dev 0

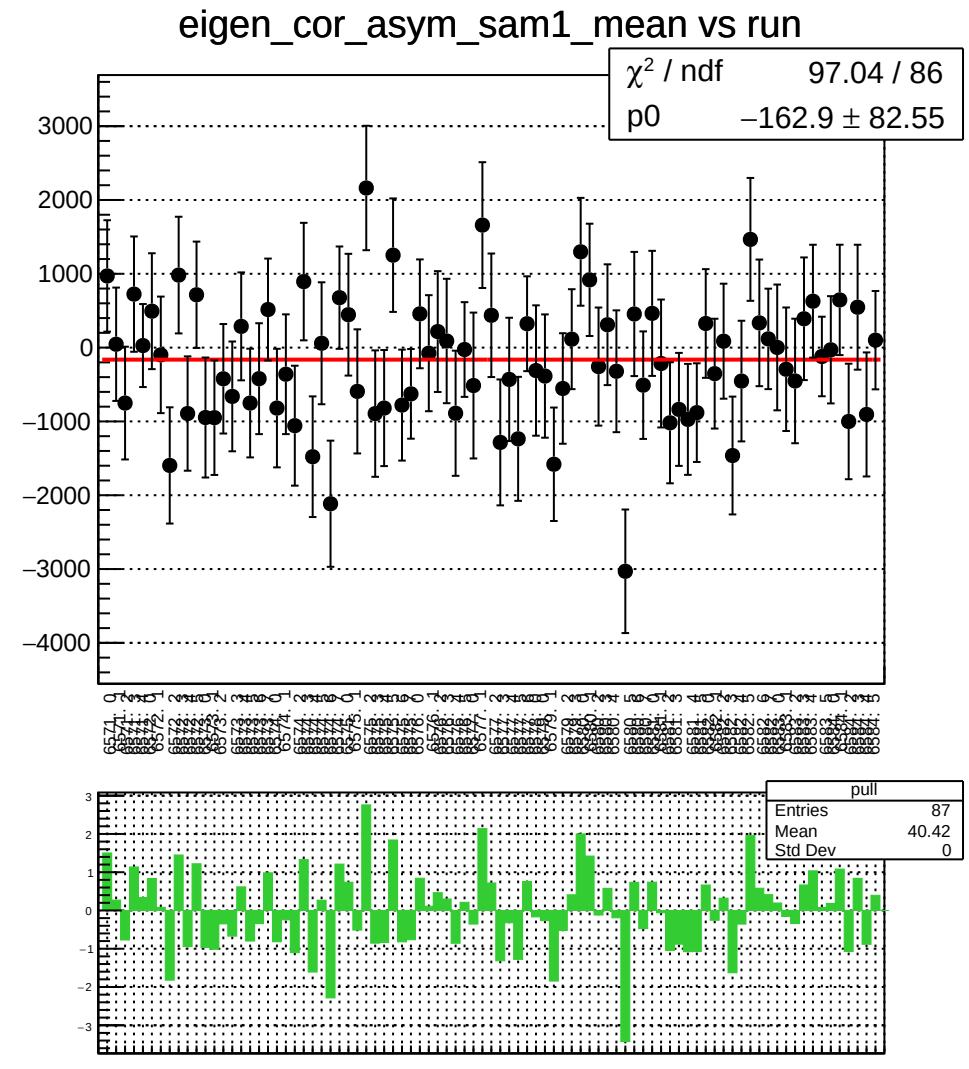

pull1D
Entries 87
Mean −0.01211
Std Dev 1.056

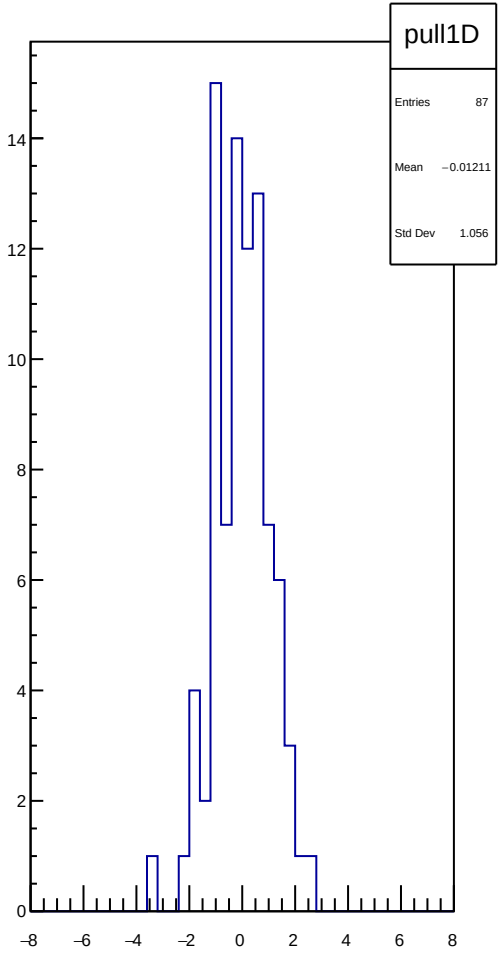

cor_asym_sam1_rms vs run
χ^2 / ndf 5192 / 86
p0 75.69 ± 0.05837
95
90
85
80
75
70

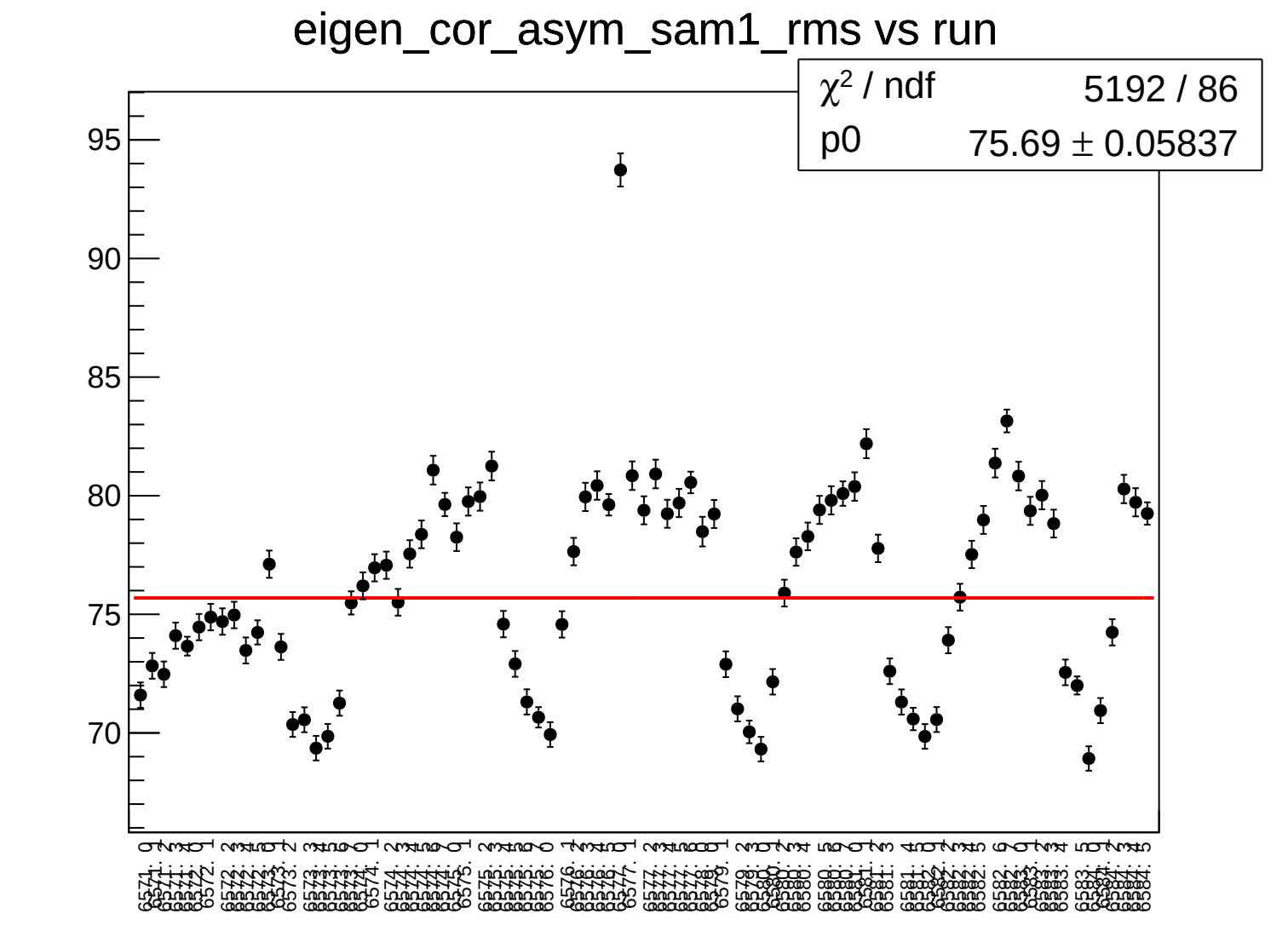

asym_sam1_cor_correction_mean vs run
χ² / ndf 111.6 / 86
p0 −434.8 ± 309.4
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 237.5
Std Dev 0
3
2
1
0
−1
−2

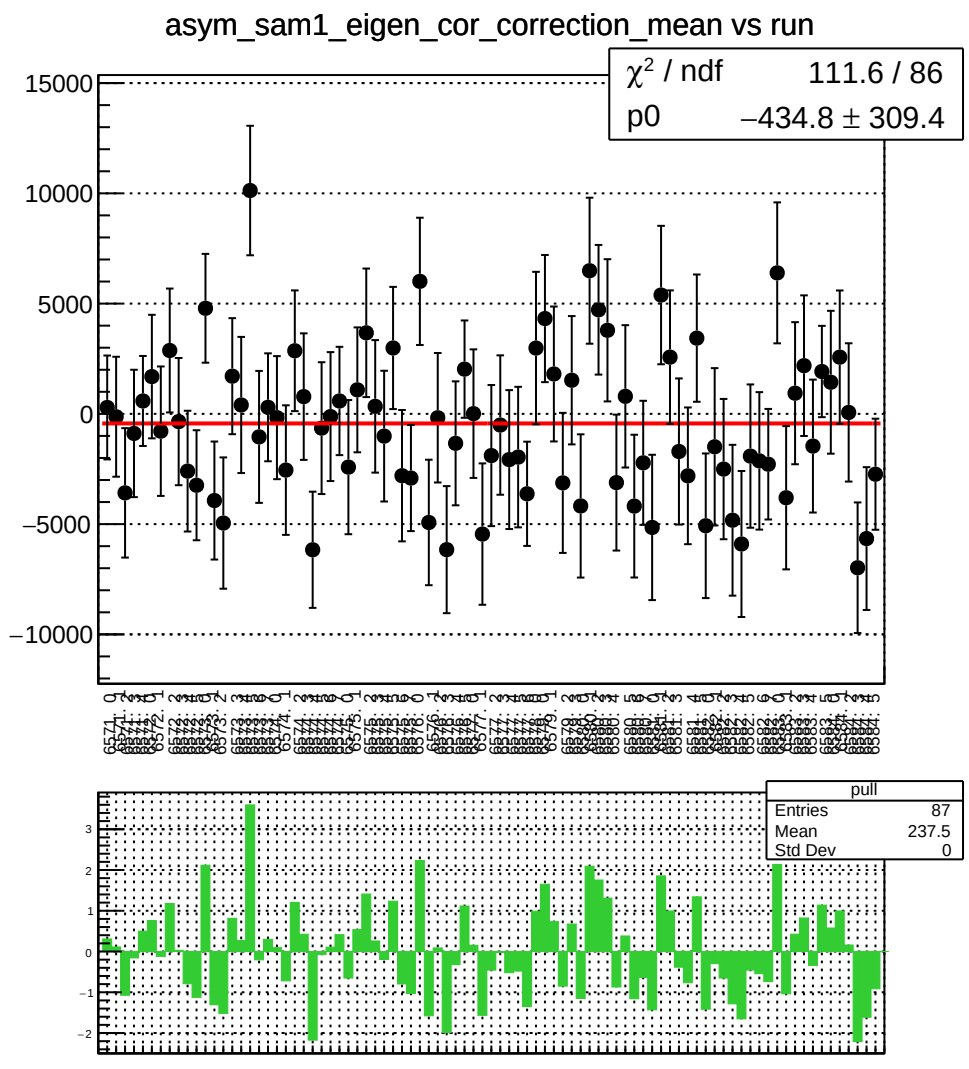

pull1D
Entries 87
Mean −0.01517
Std Dev 1.133
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

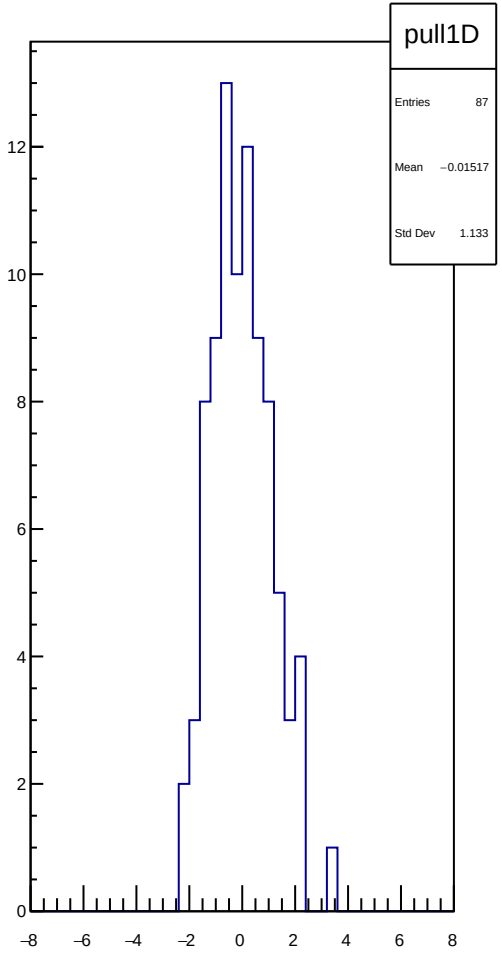

asym_sam1_cor_correction_rms vs run
χ² / ndf 8805 / 86
p0 283.4 ± 0.2188
340
320
300
280
260
240
220

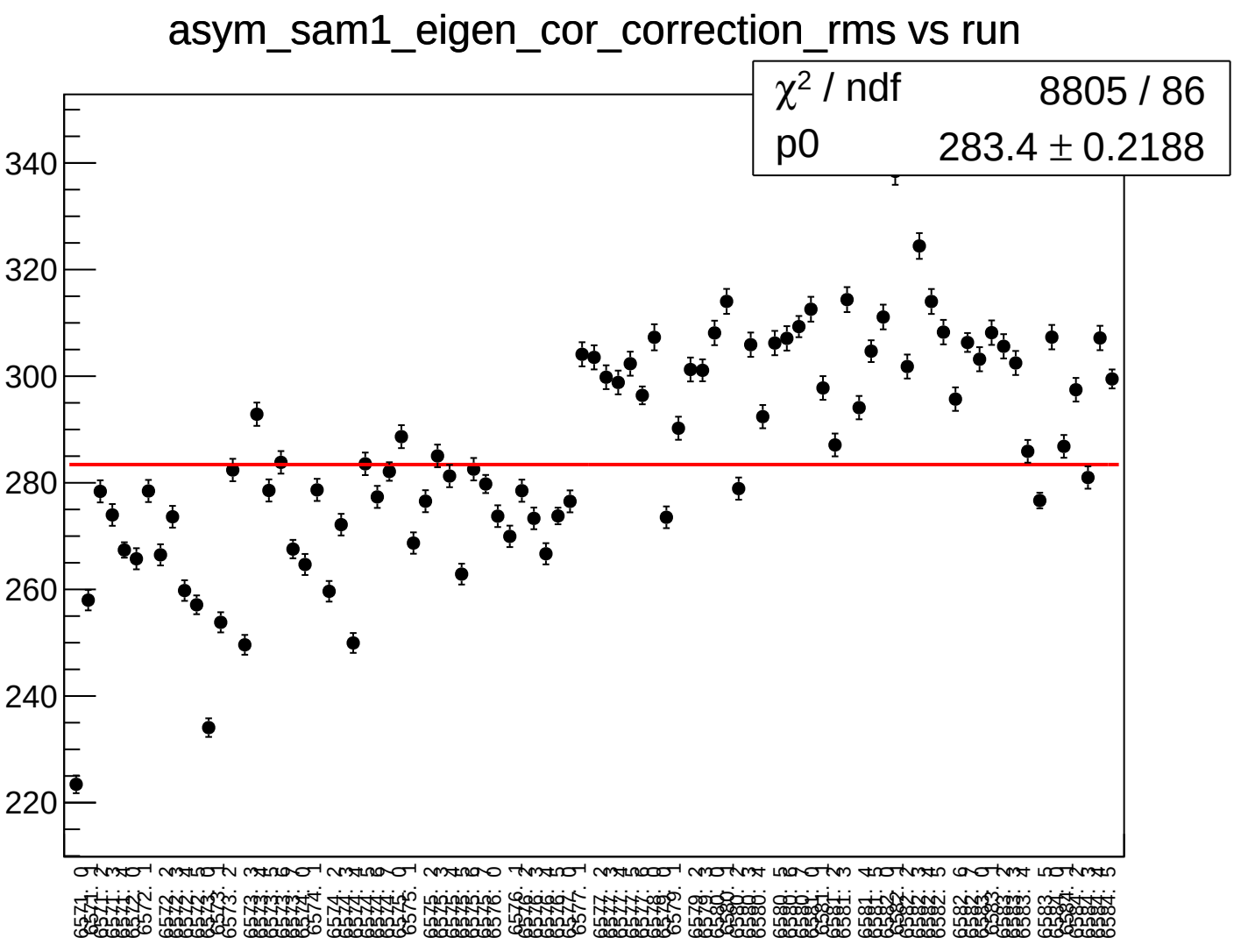

eigen_cor_asym_sam1_mean vs run
χ² / ndf 97.04 / 86
p0 −162.9 ± 82.55
pull
Entries 87
Mean 40.42
Std Dev 0

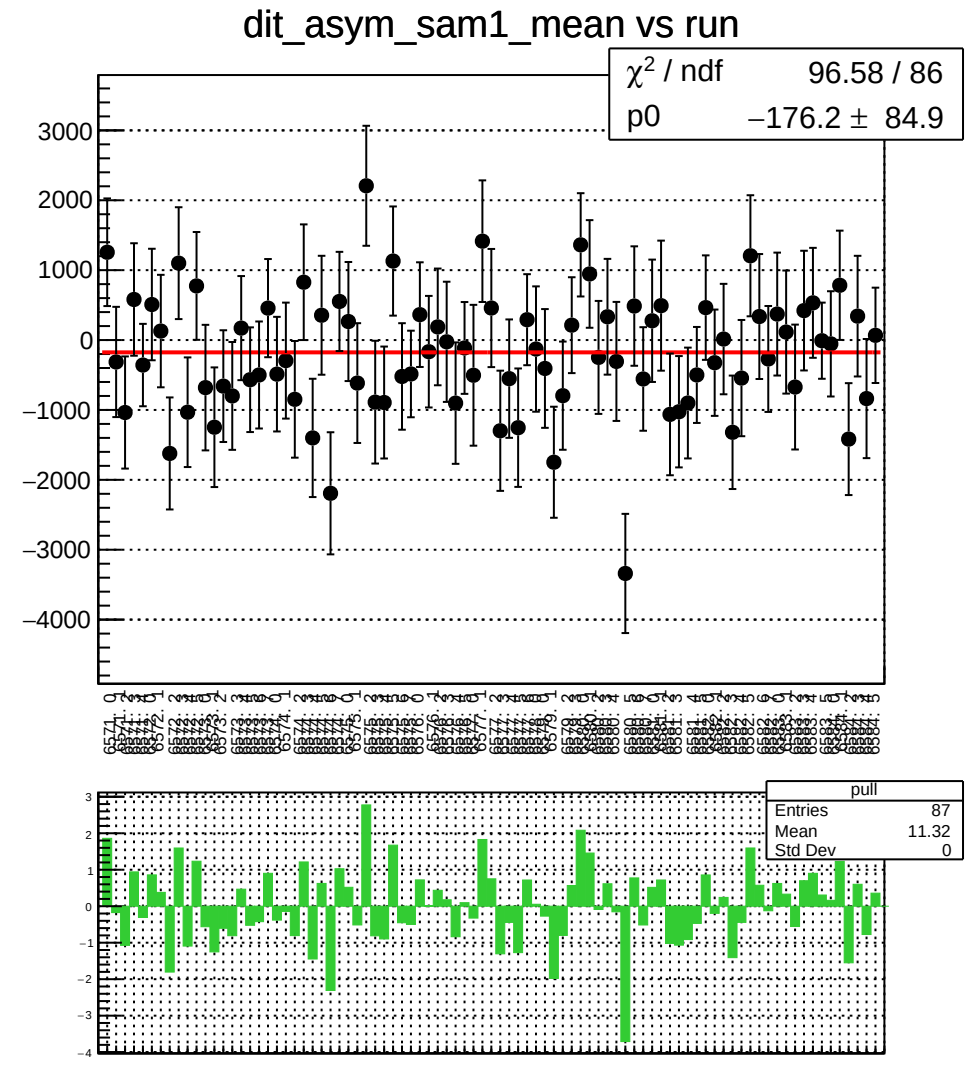

pull1D
Entries 87
Mean −0.01211
Std Dev 1.056

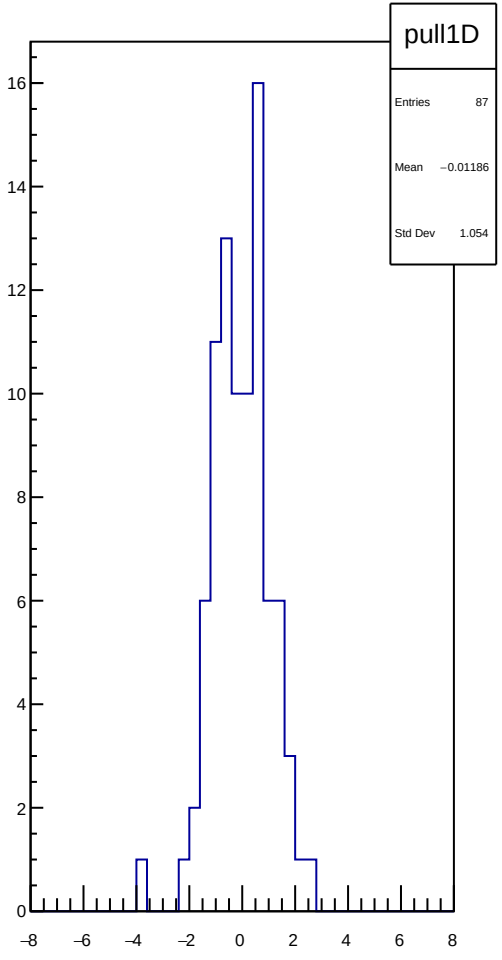

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 5192 / 86
p0 75.69 ± 0.05837
95
90
85
80
75
70

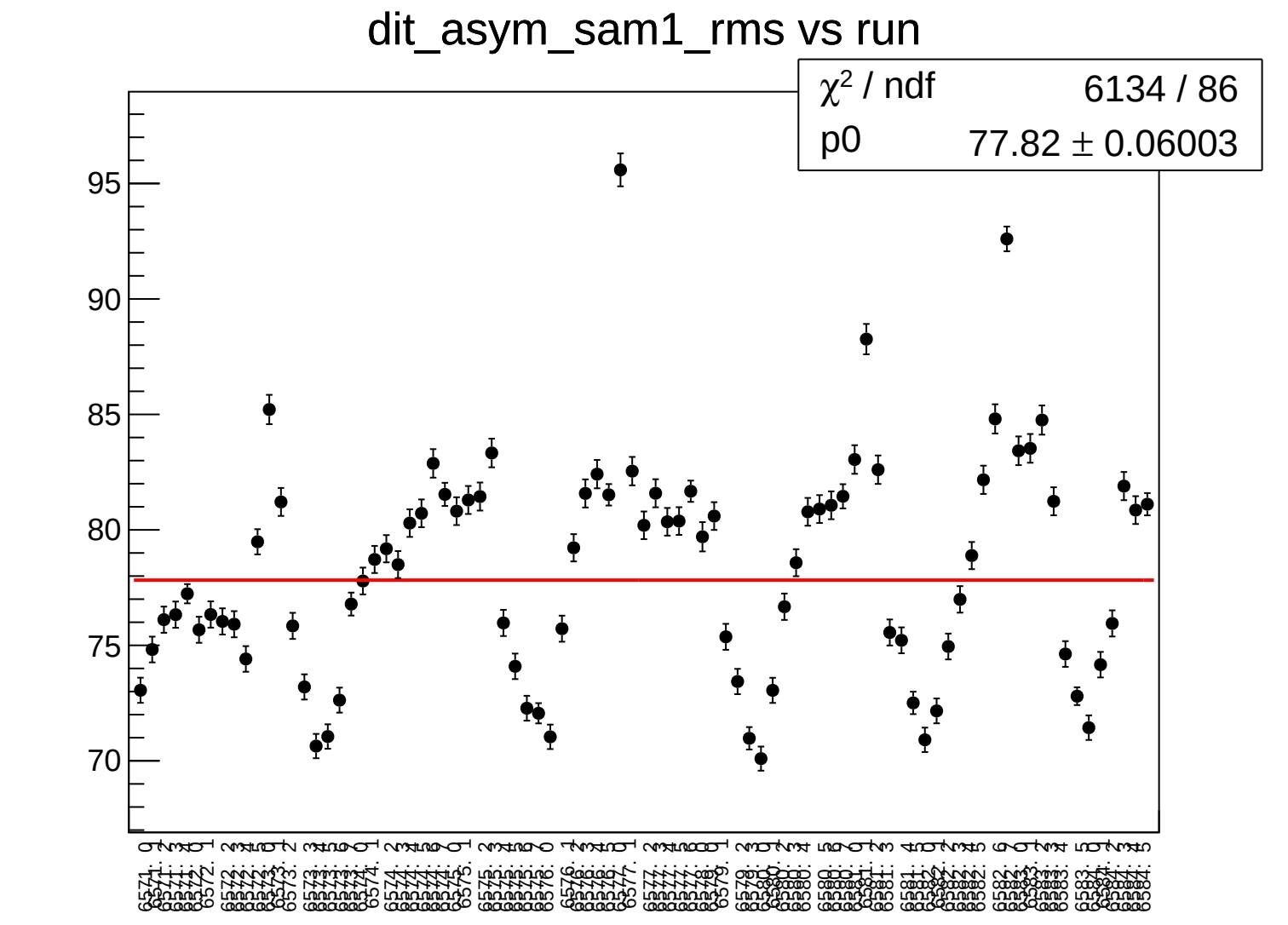

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 111.6 / 86
p0 −434.8 ± 309.4
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 237.5
Std Dev 0
3
2
1
0
−1
−2

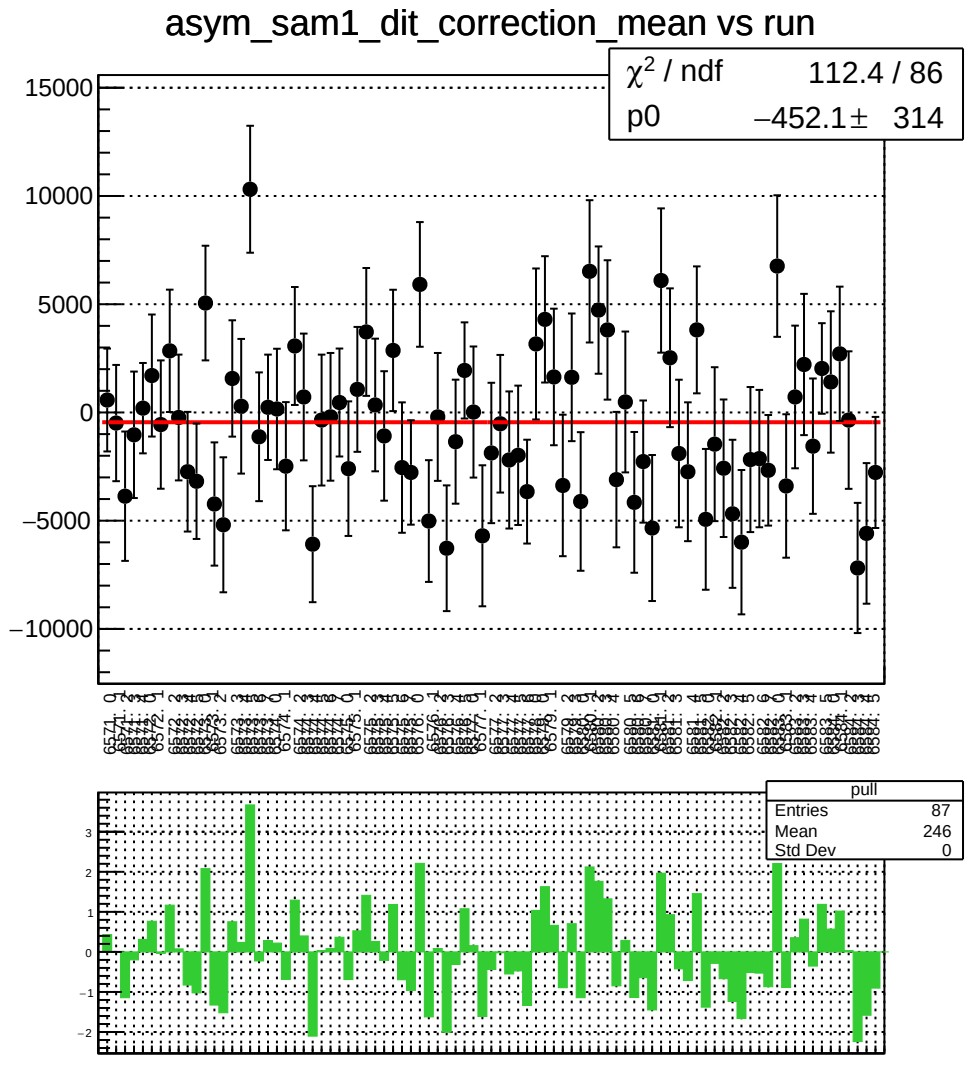

pull1D
Entries 87
Mean −0.01517
Std Dev 1.133
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

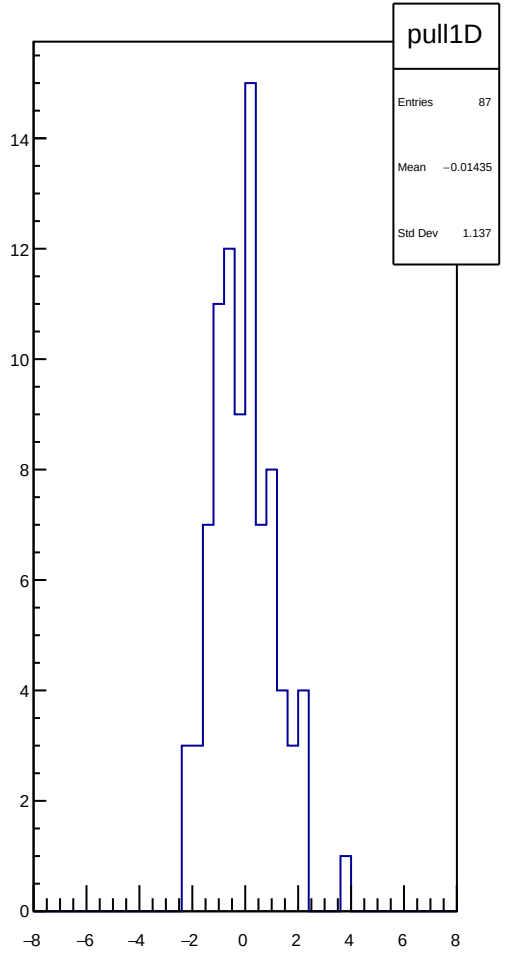

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 8805 / 86
p0 283.4 ± 0.2188
340
320
300
280
260
240
220

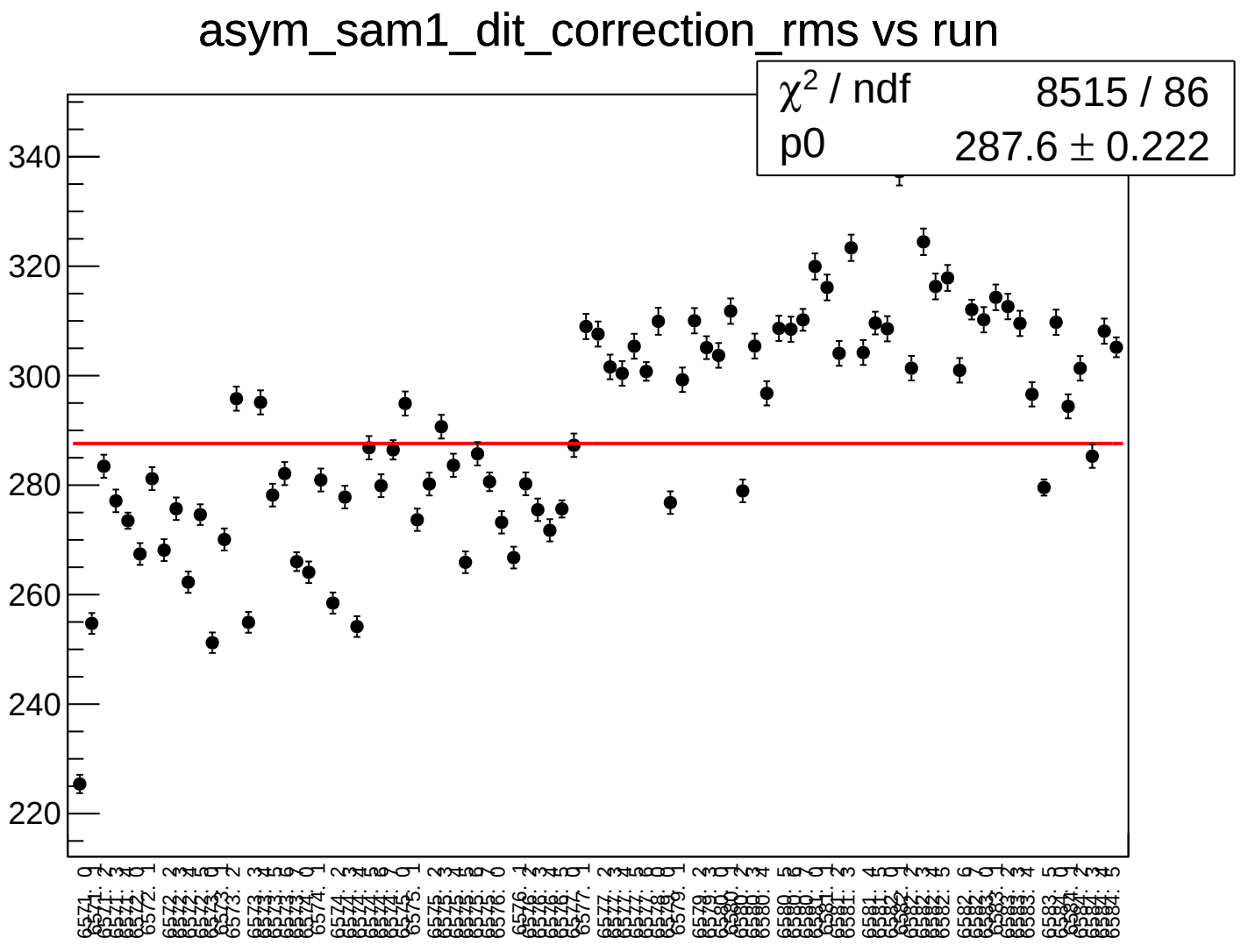

dit_asym_sam1_mean vs run
χ² / ndf 96.58 / 86
p0 −176.2 ± 84.9
pull
Entries 87
Mean 11.32
Std Dev 0

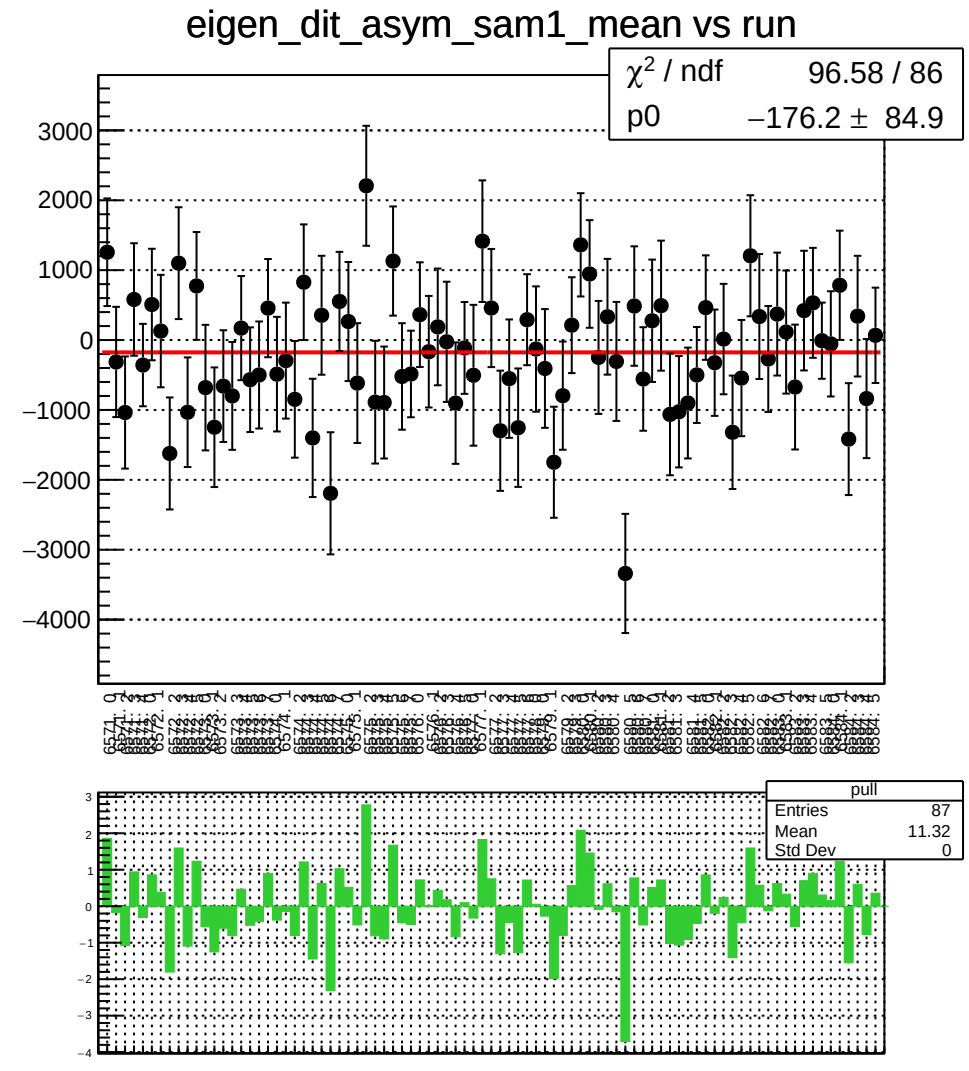

pull1D
Entries 87
Mean −0.01186
Std Dev 1.054

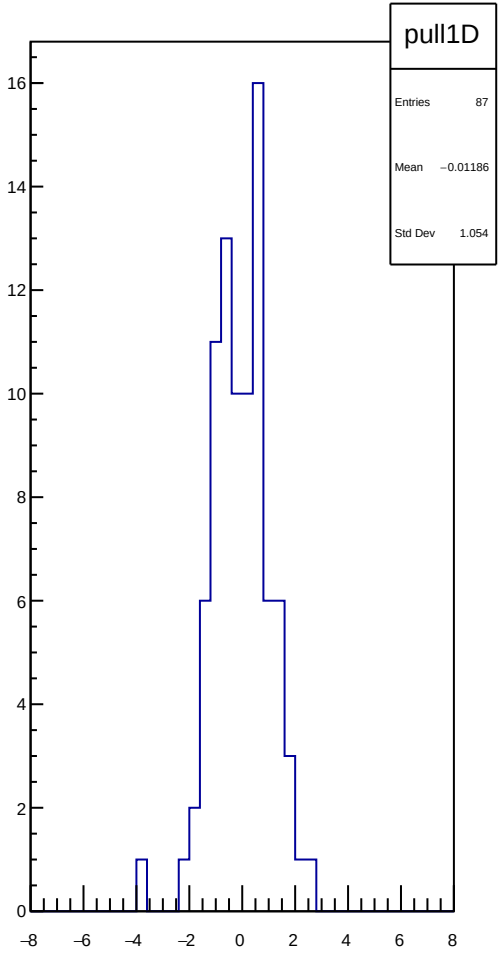

dit_asym_sam1_rms vs run
χ^2 / ndf 6134 / 86
p0 77.82 ± 0.06003
95
90
85
80
75
70

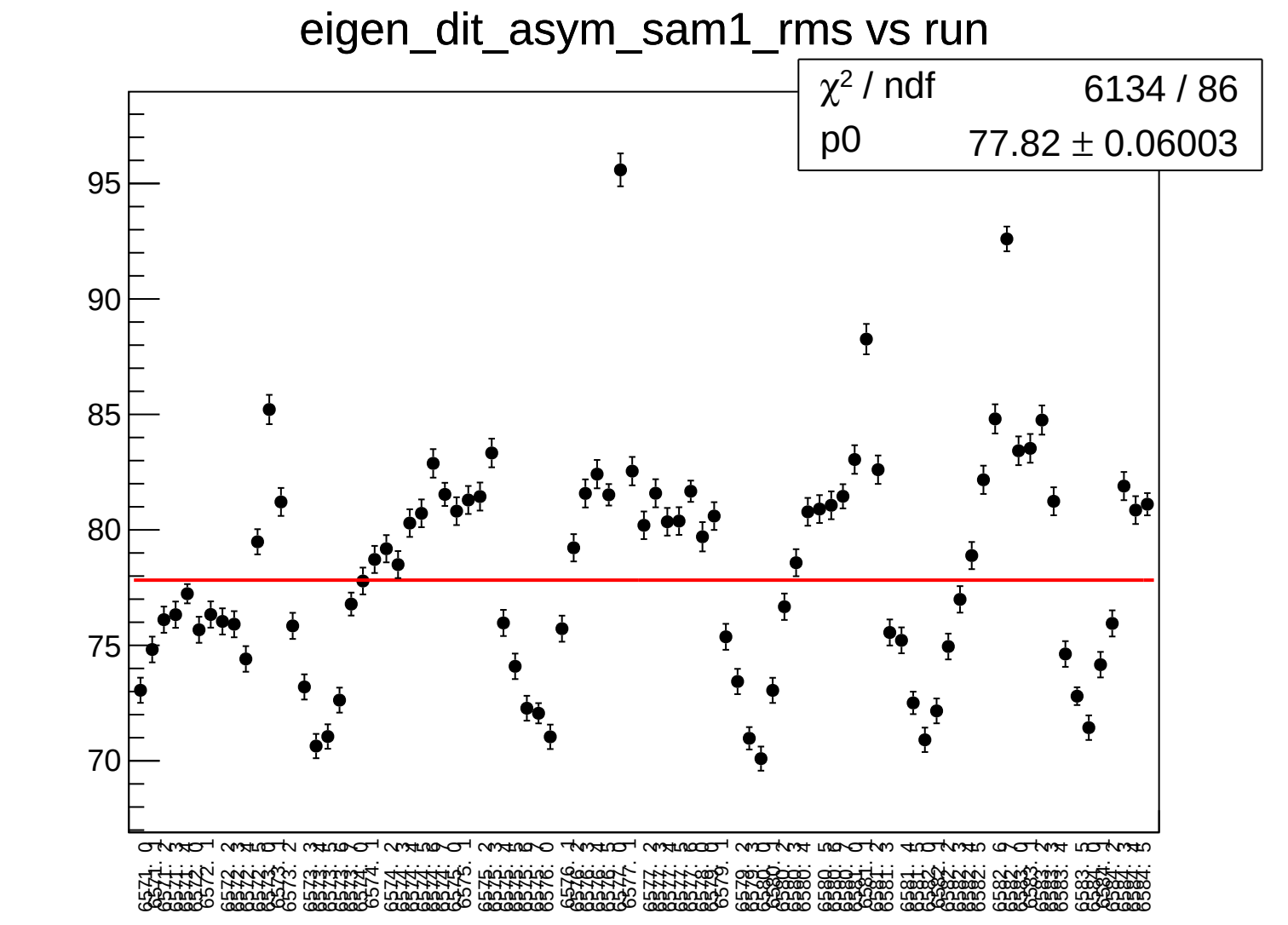

asym_sam1_dit_correction_mean vs run
χ² / ndf 112.4 / 86
p0 −452.1± 314
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 246
Std Dev 0
3
2
1
0
−1
−2

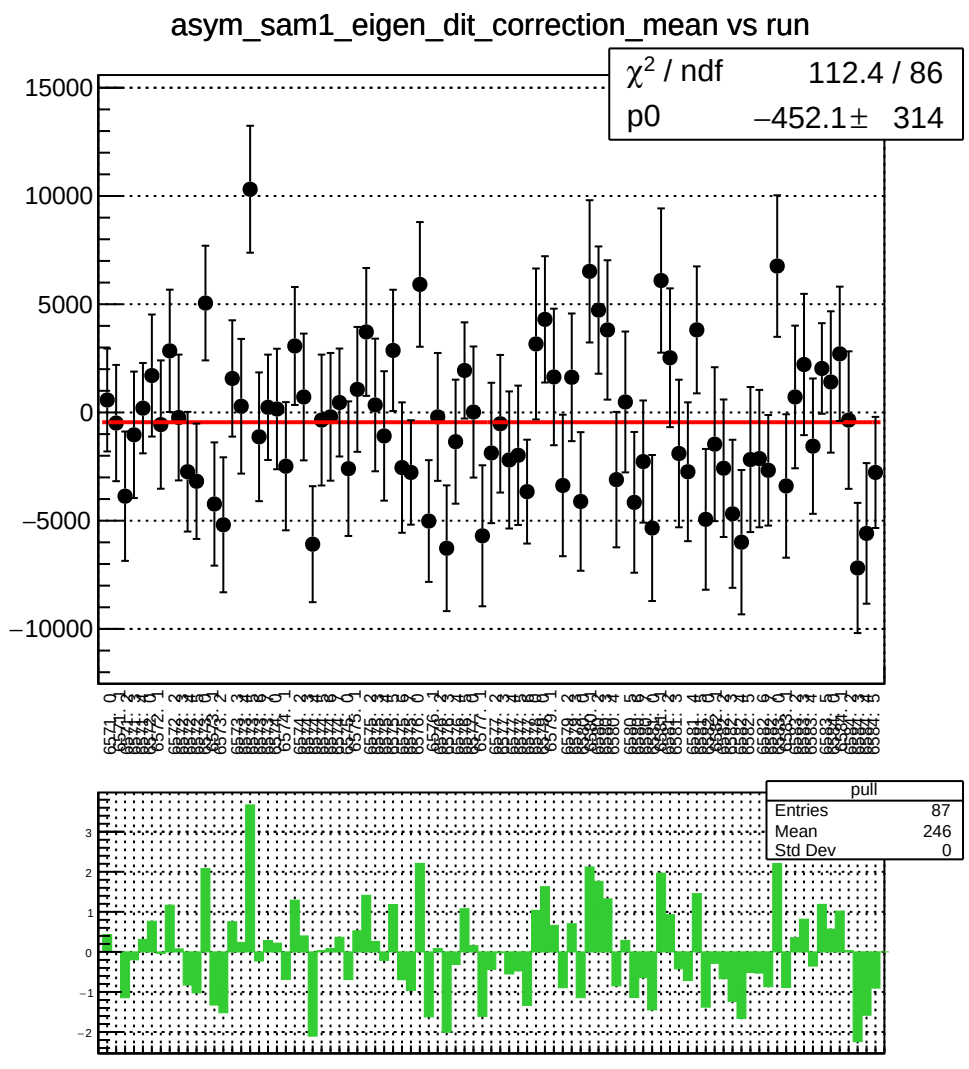

pull1D
Entries 87
Mean −0.01435
Std Dev 1.137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

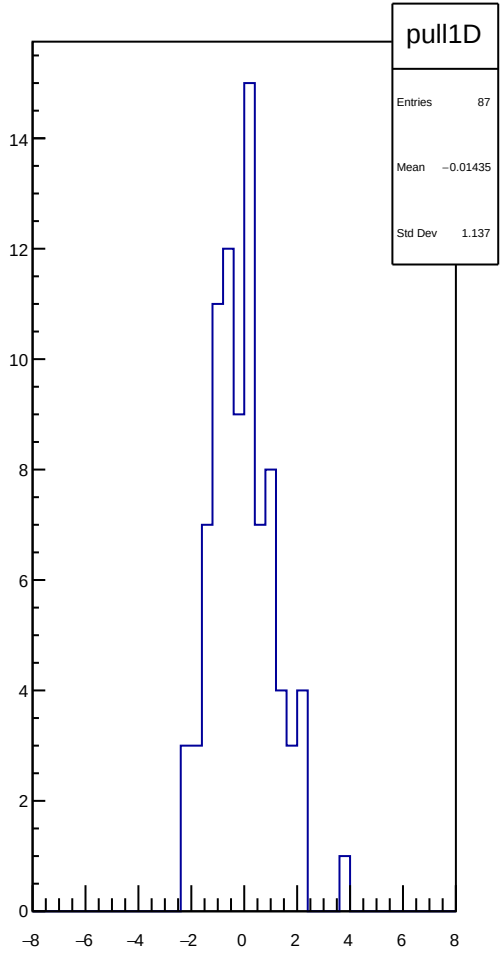

asym_sam1_dit_correction_rms vs run
χ² / ndf 8515 / 86
p0 287.6 ± 0.222
340
320
300
280
260
240
220

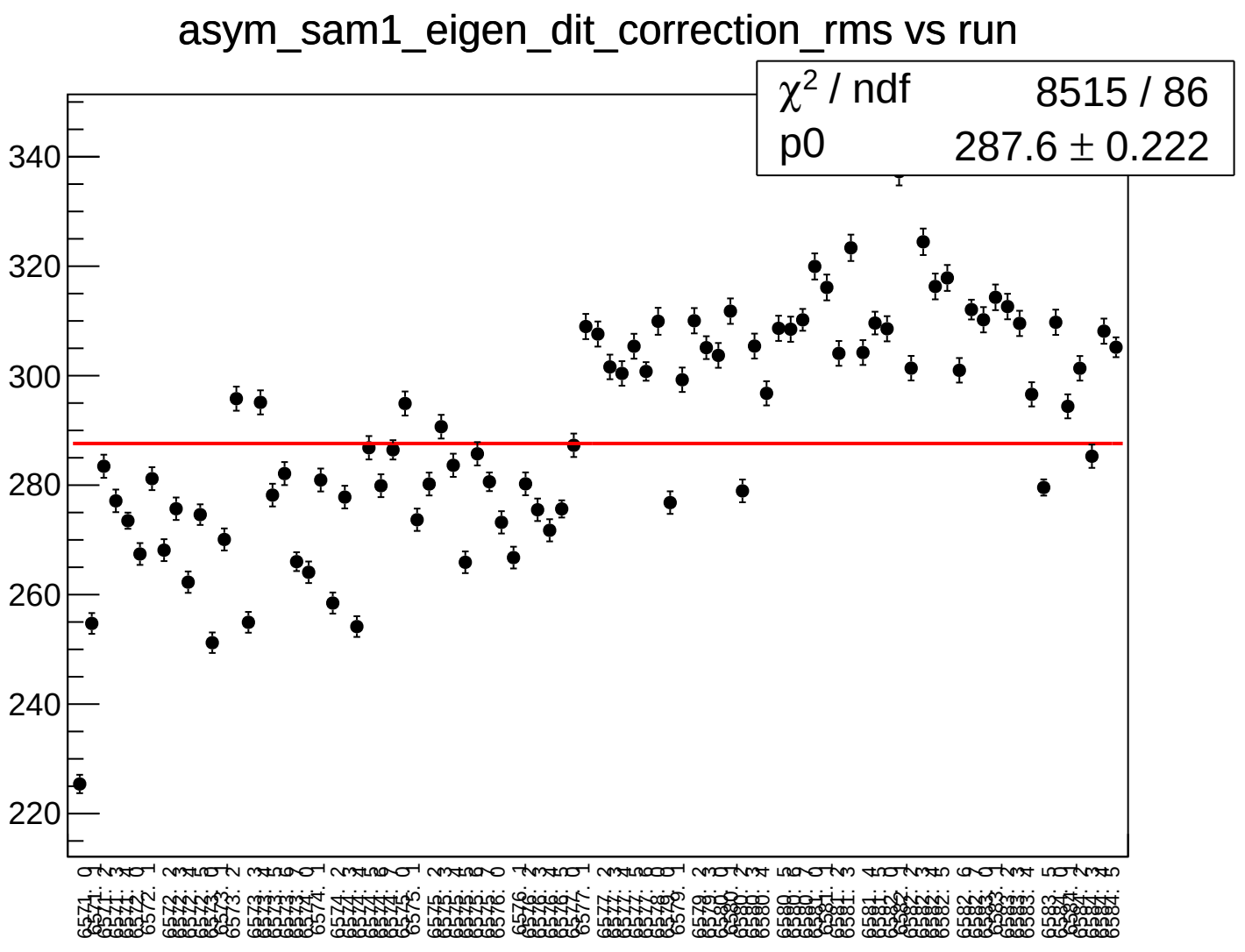

eigen_dit_asym_sam1_mean vs run
χ² / ndf 96.58 / 86
p0 −176.2 ± 84.9
pull
Entries 87
Mean 11.32
Std Dev 0

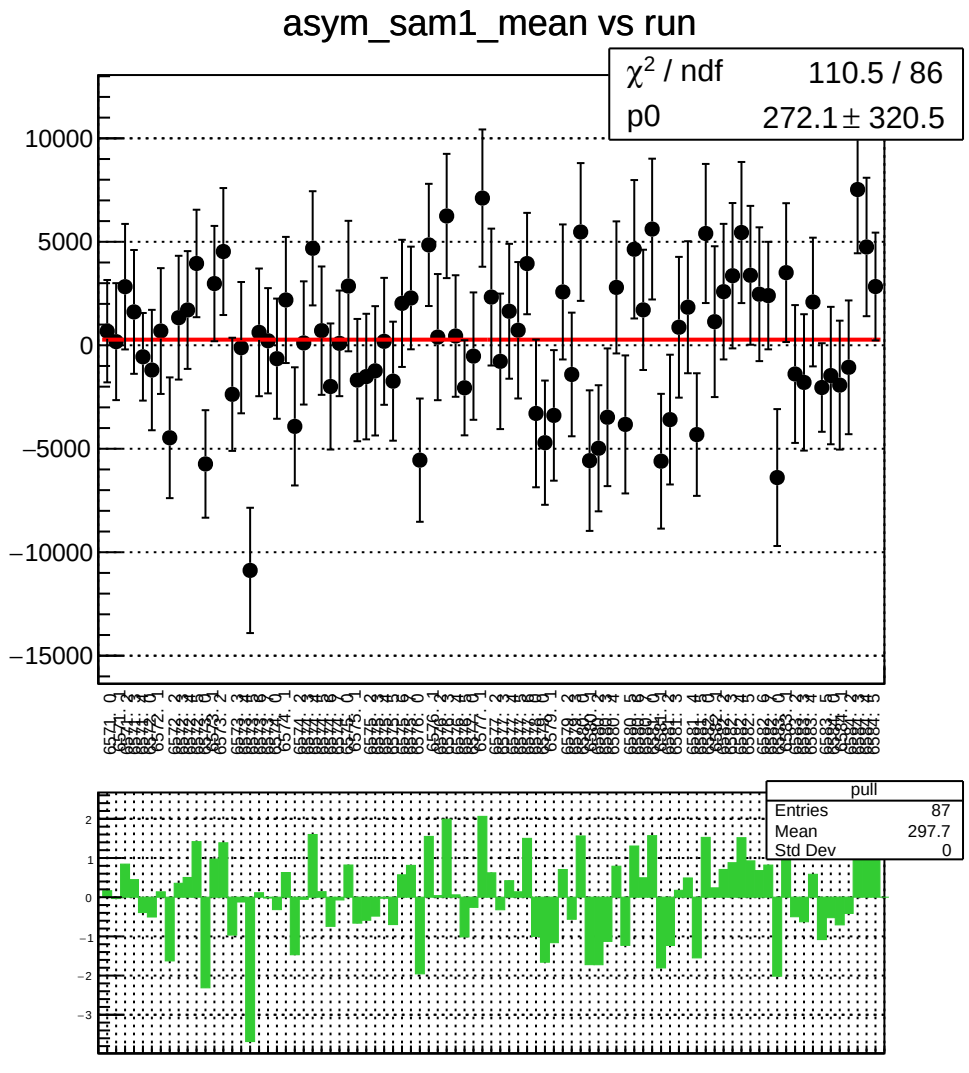

pull1D
Entries 87
Mean −0.01186
Std Dev 1.054

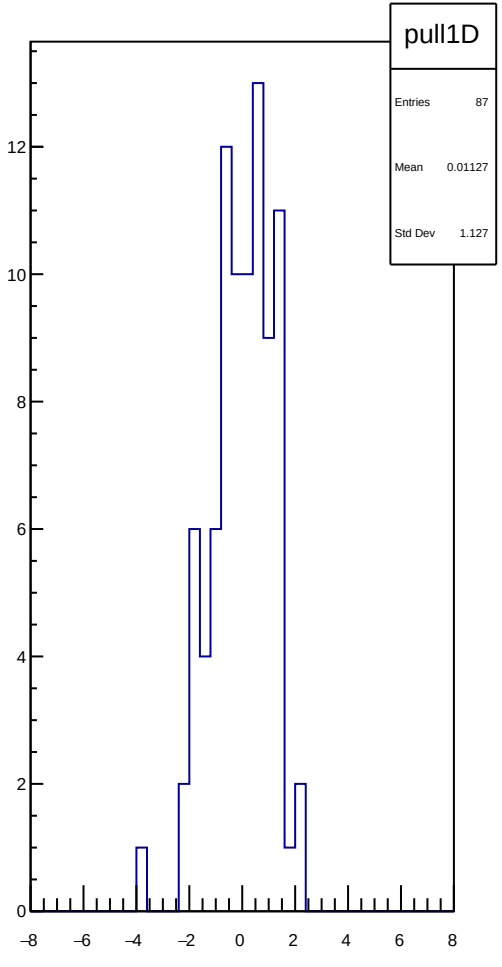

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 6134 / 86
p0 77.82 ± 0.06003
95
90
85
80
75
70

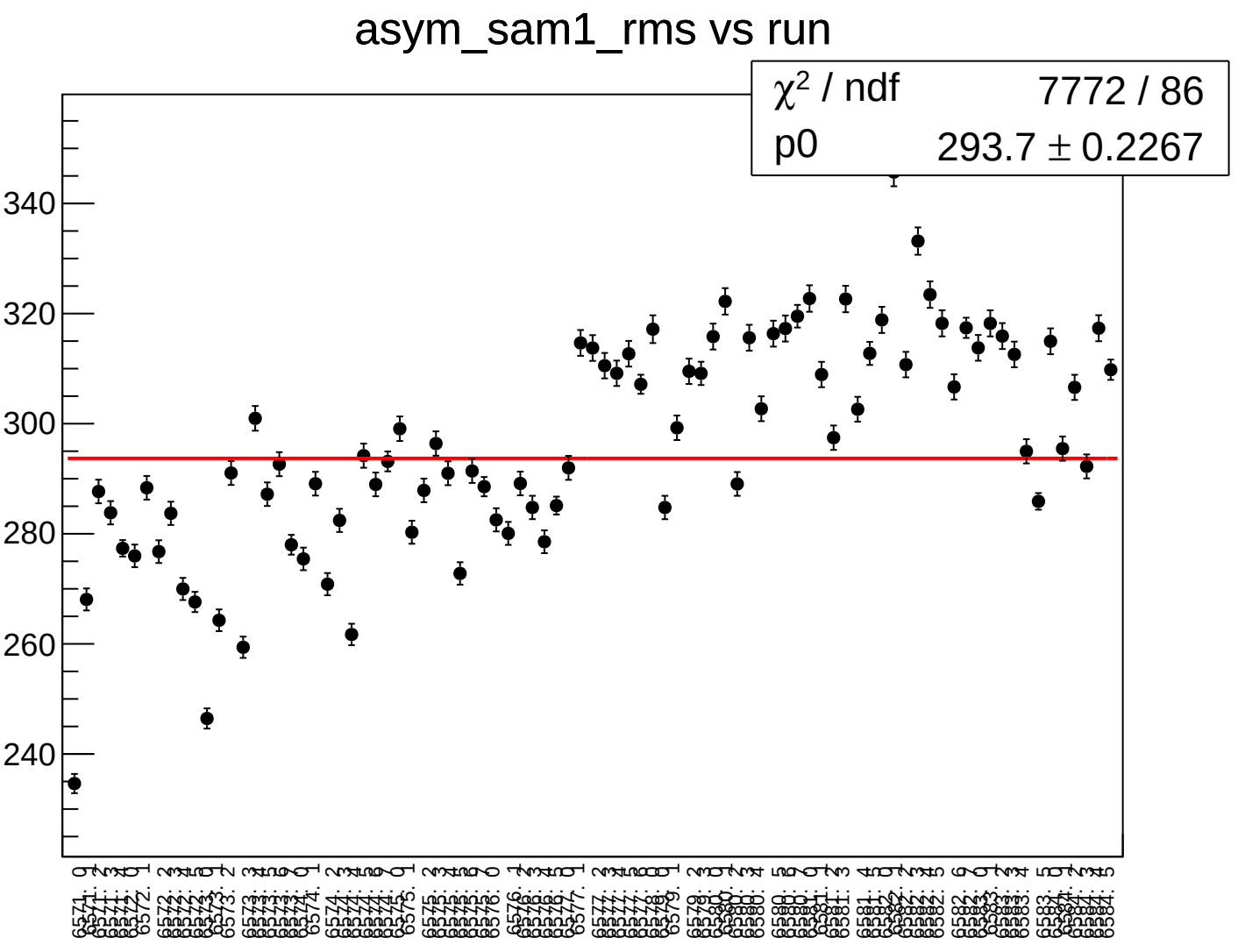

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 112.4 / 86
p0 −452.1± 314
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 246
Std Dev 0
3
2
1
0
−1
−2

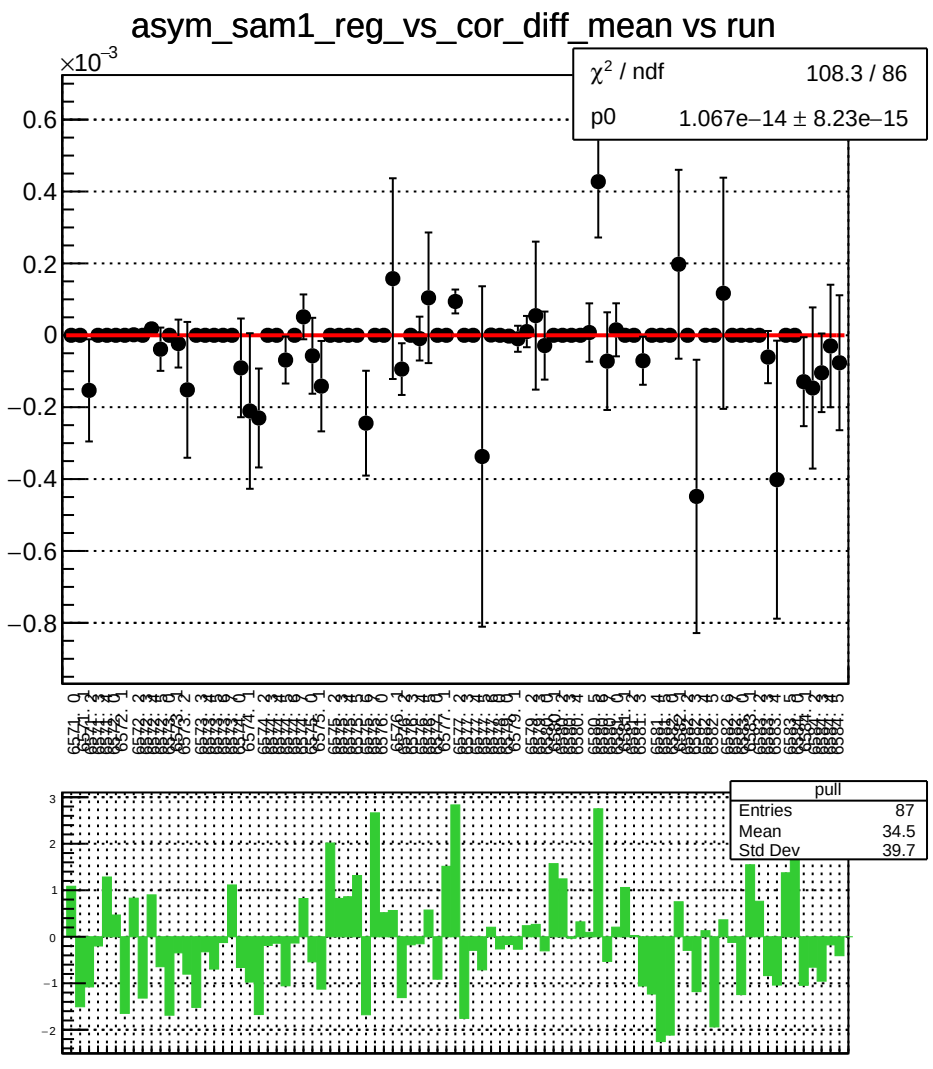

pull1D
Entries 87
Mean −0.01435
Std Dev 1.137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

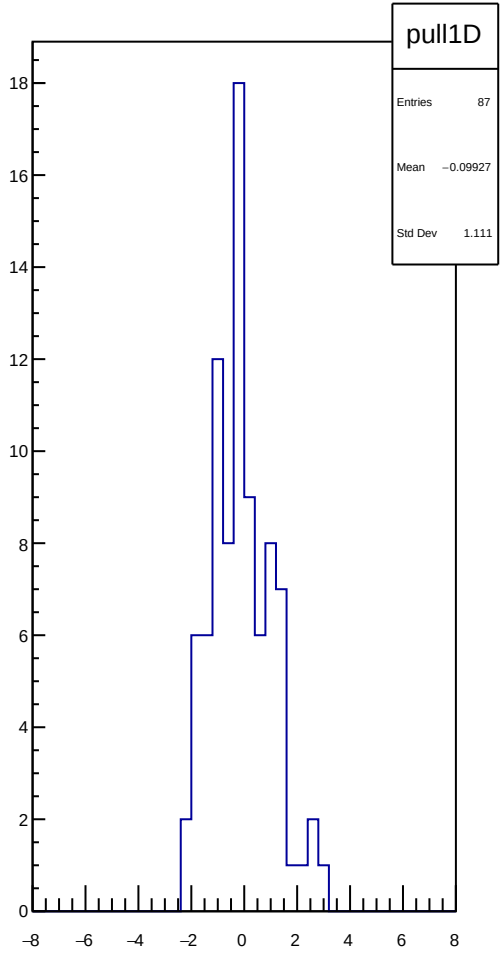

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 8515 / 86
p0 287.6 ± 0.222
340
320
300
280
260
240
220

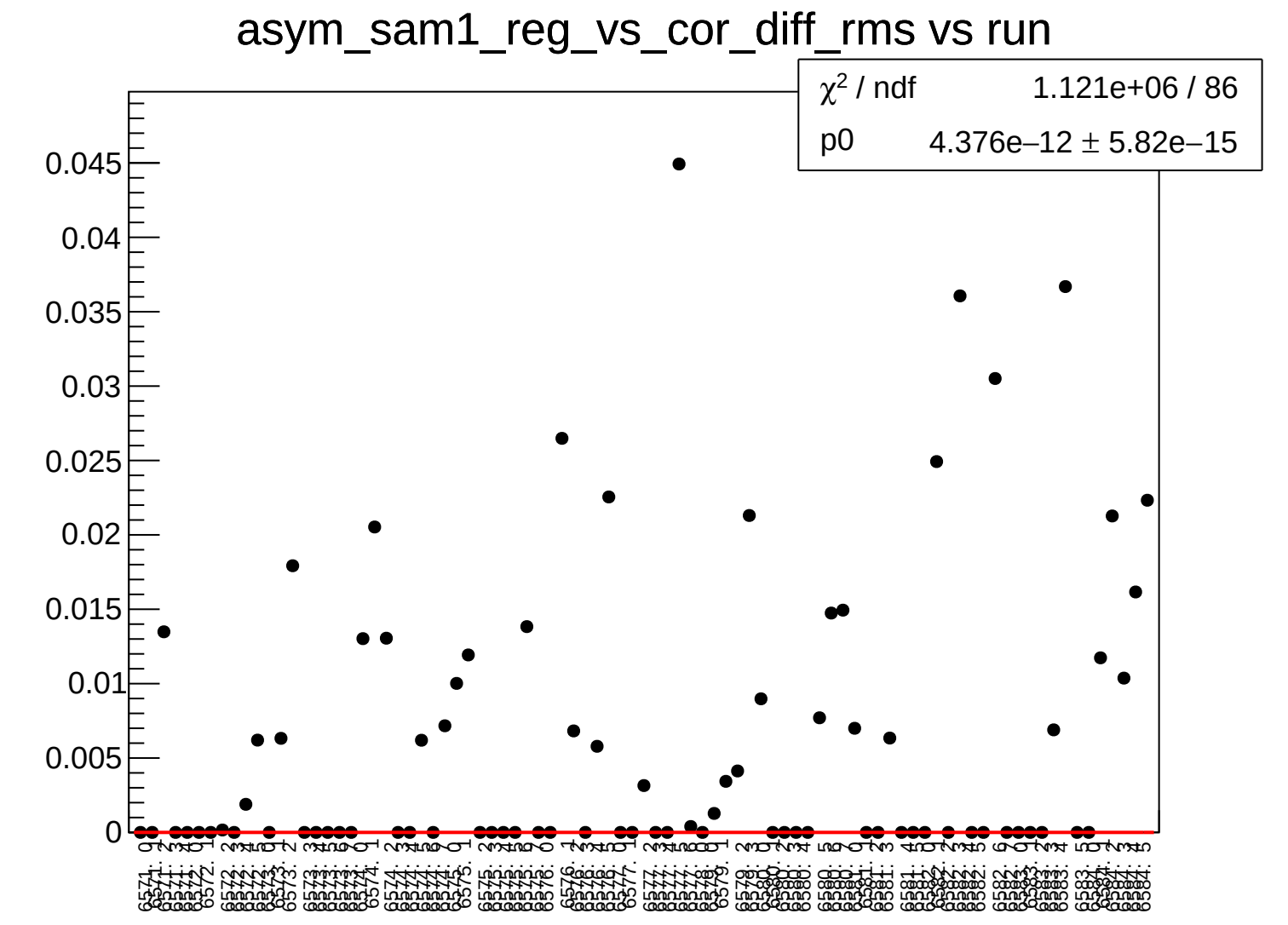

asym_sam1_mean vs run
χ² / ndf 110.5 / 86
p0 272.1 ± 320.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 297.7
Std Dev 0
2
1
0
−1
−2
−3

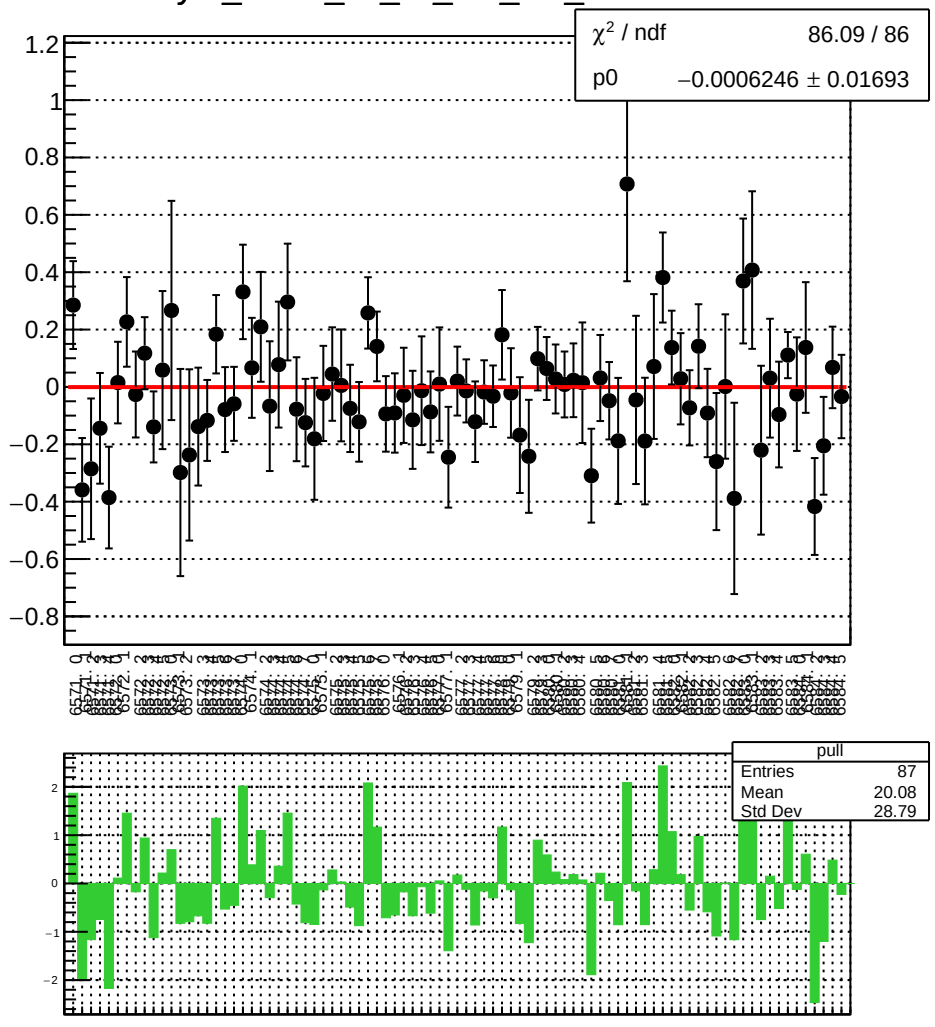

pull1D
Entries 87
Mean 0.01127
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

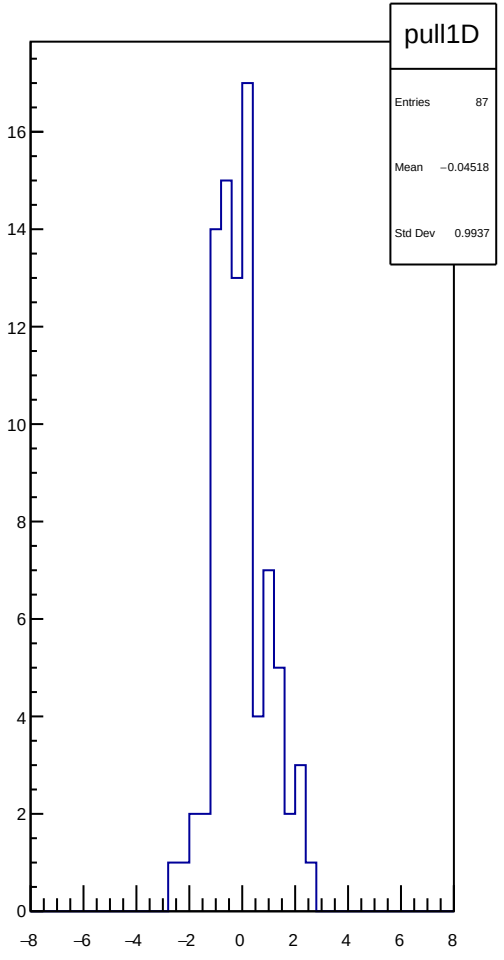

asym_sam1_rms vs run
χ² / ndf 7772 / 86
p0 293.7 ± 0.2267
340
320
300
280
260
240

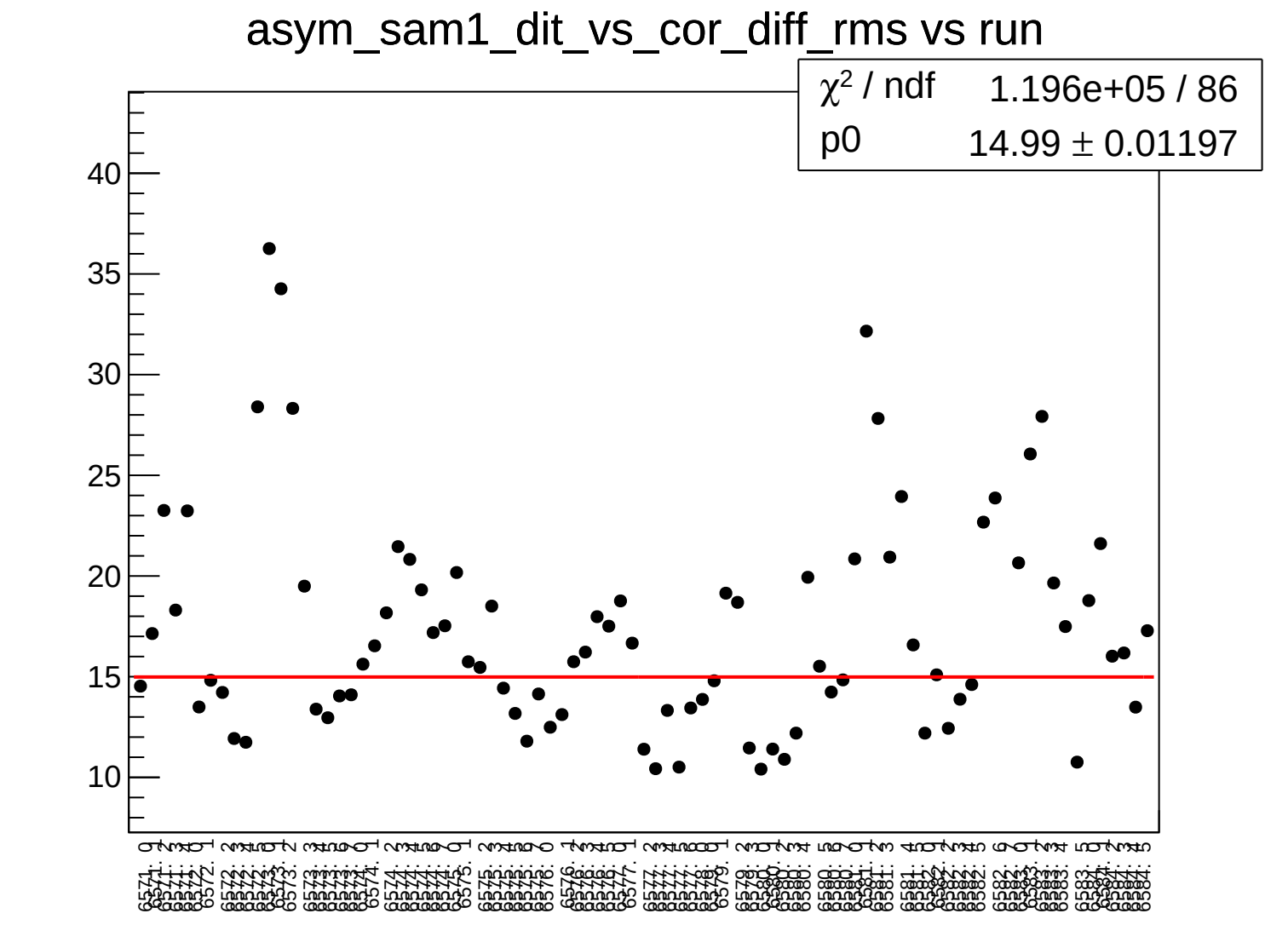

asym_sam1_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 108.3 / 86
p0 1.067e−14 ± 8.23e−15
pull
Entries 87
Mean 34.5
Std Dev 39.7

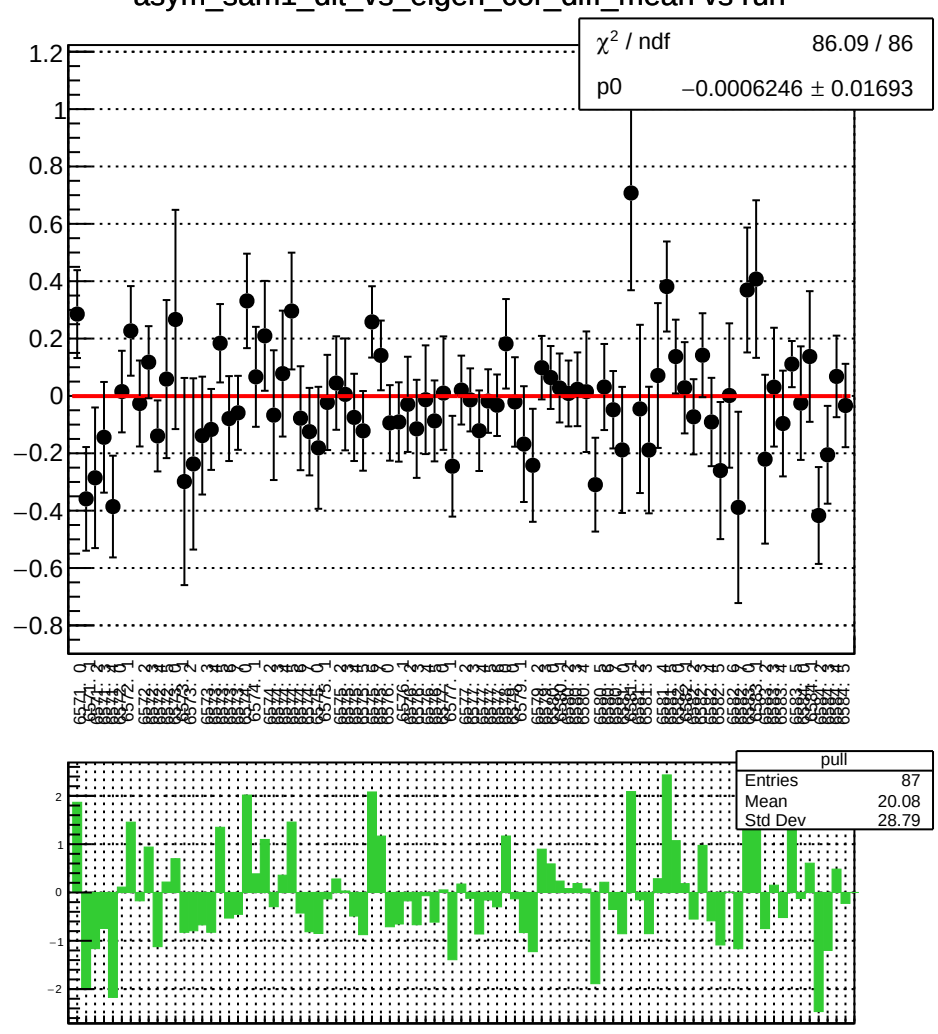

pull1D
Entries 87
Mean −0.09927
Std Dev 1.111

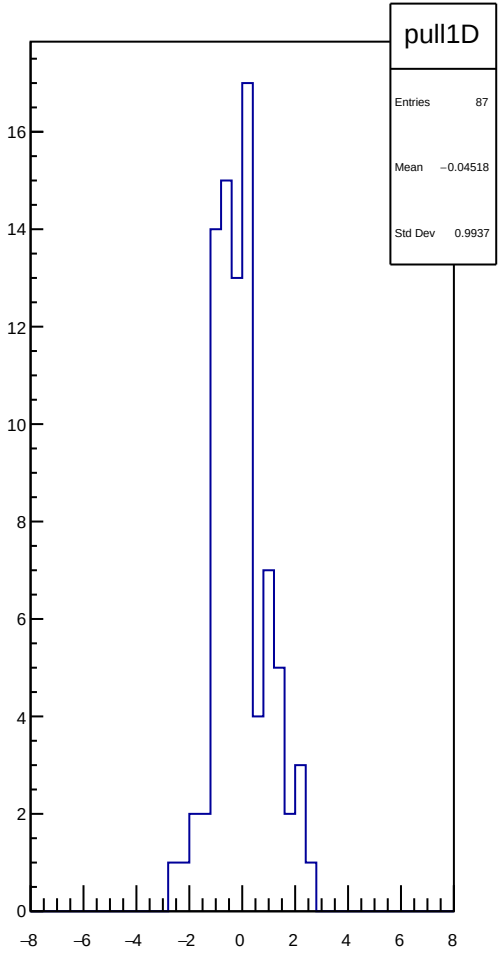

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.121e+06 / 86
p0 4.376e−12 ± 5.82e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

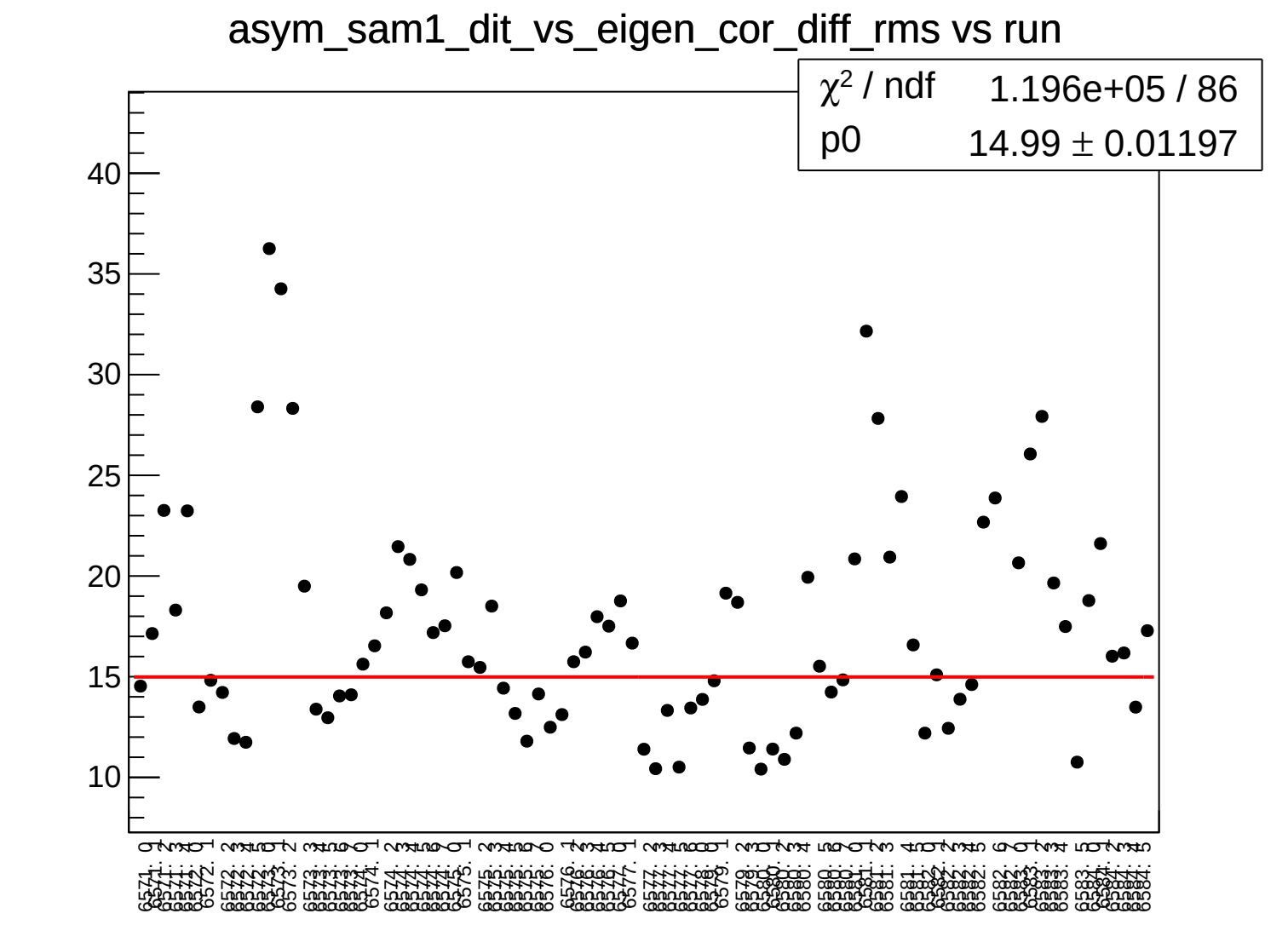

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 86.09 / 86
p0 −0.0006246 ± 0.01693
pull
Entries 87
Mean 20.08
Std Dev 28.79

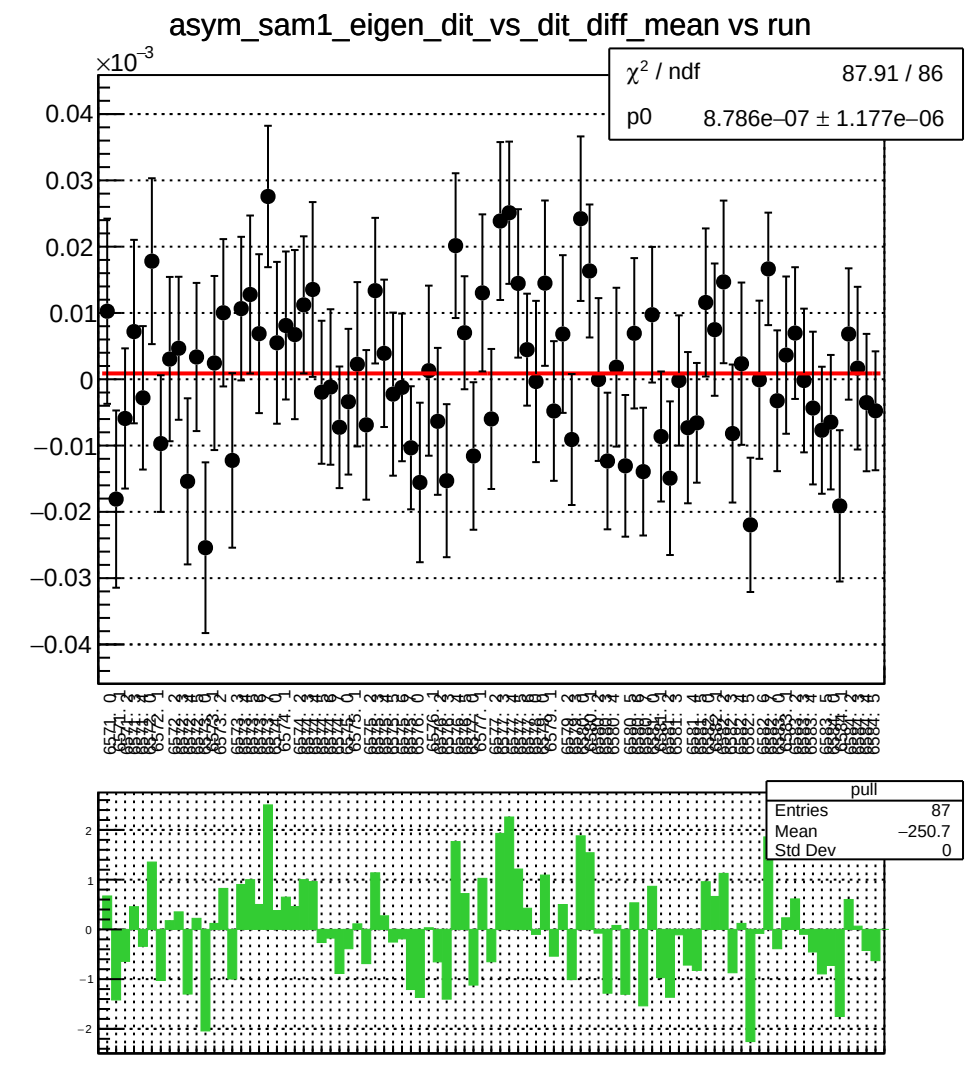

pull1D
Entries 87
Mean −0.04518
Std Dev 0.9937

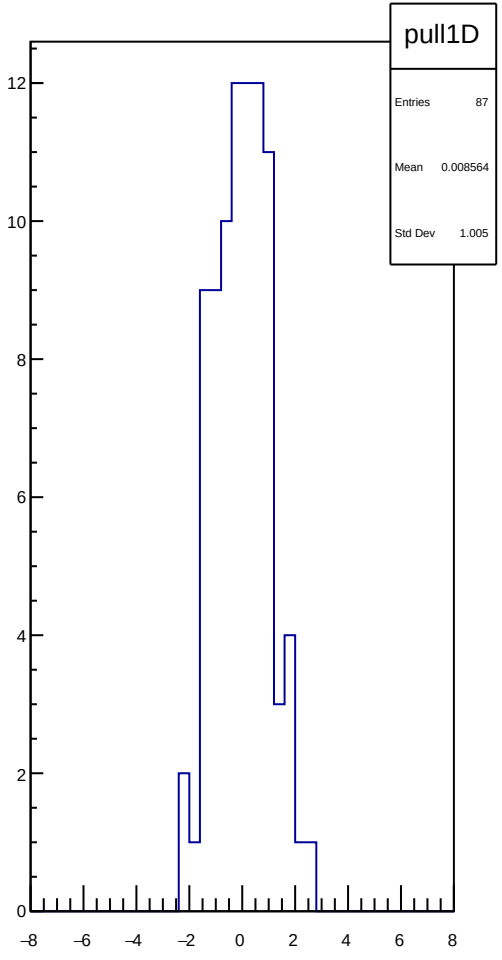

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.196e+05 / 86
p0 14.99 ± 0.01197
40
35
30
25
20
15
10

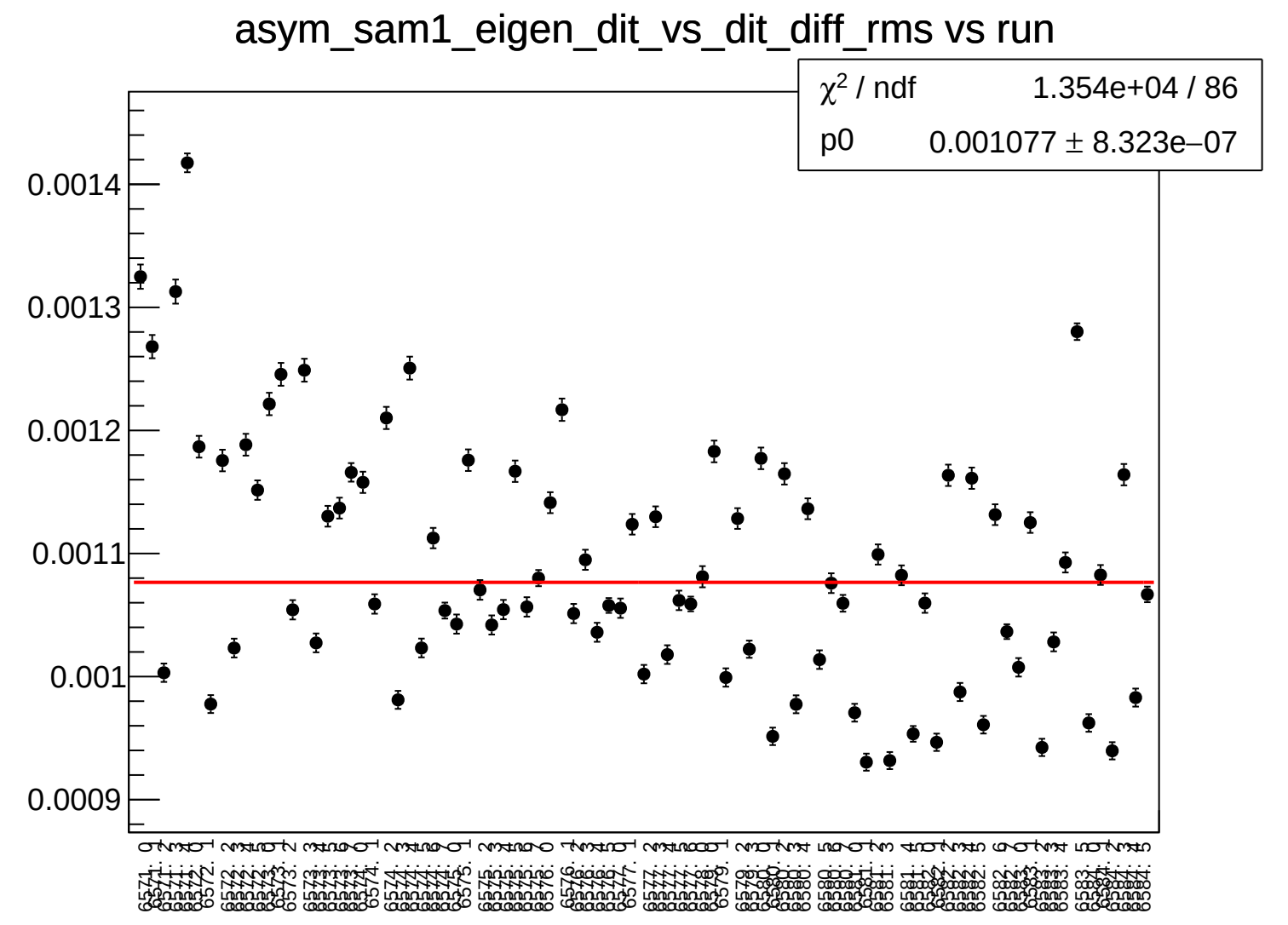

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.09 / 86
p0 −0.0006246 ± 0.01693
pull
Entries 87
Mean 20.08
Std Dev 28.79

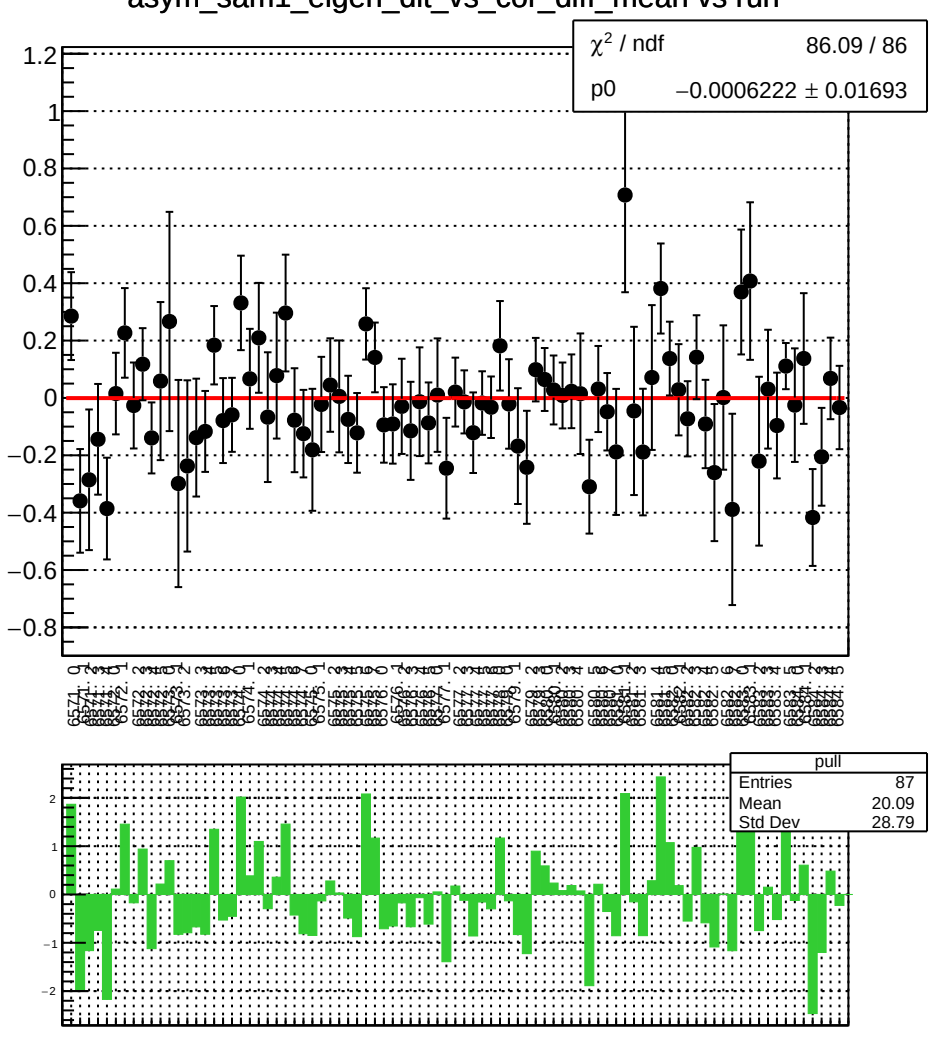

pull1D
Entries 87
Mean −0.04518
Std Dev 0.9937

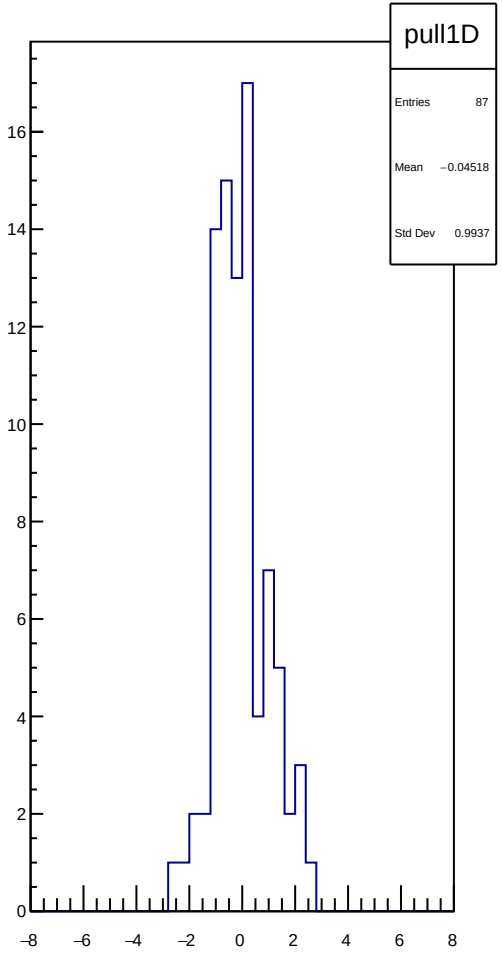

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.196e+05 / 86
p0 14.99 ± 0.01197
40
35
30
25
20
15
10

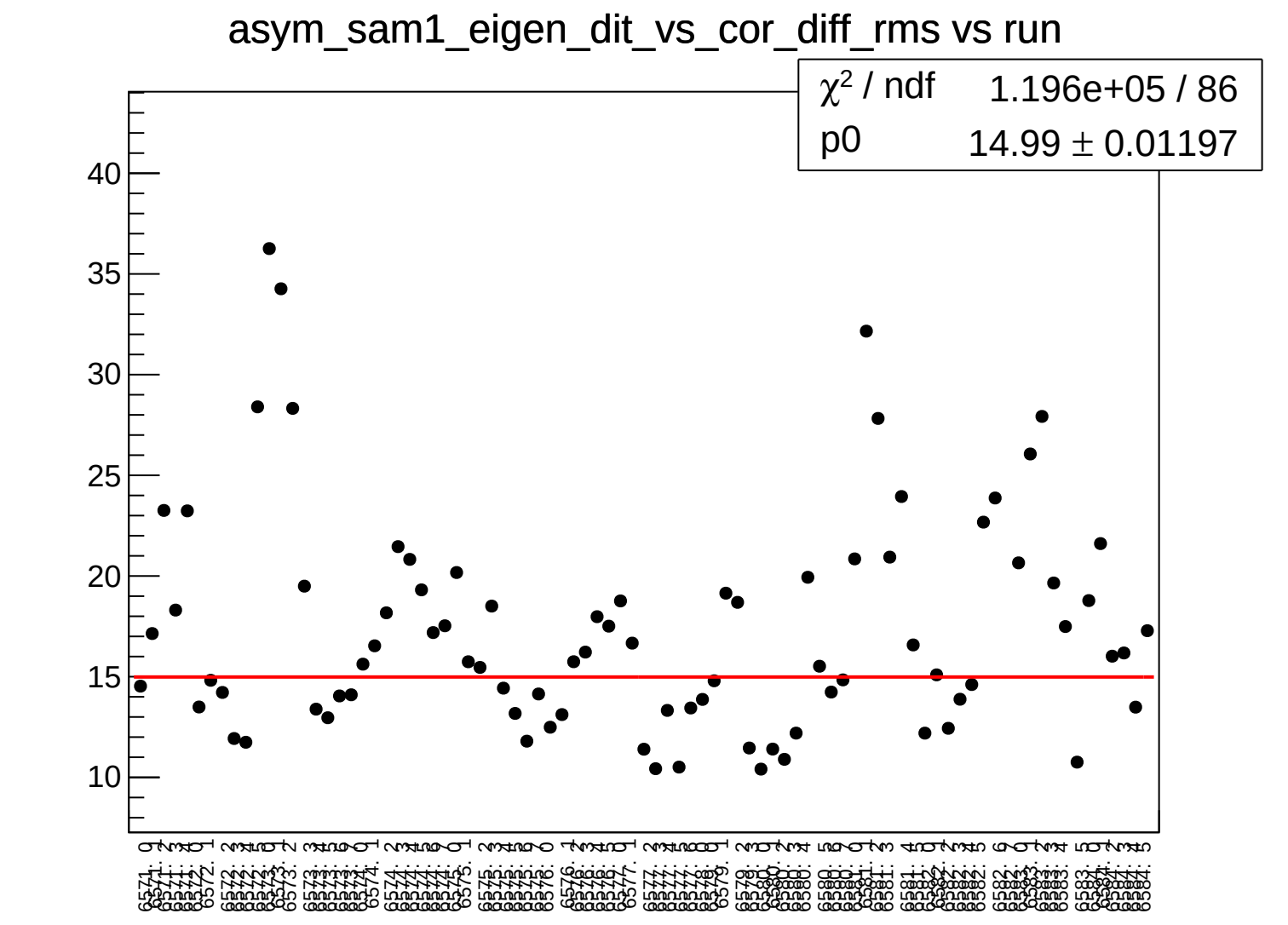

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.91 / 86
p0 8.786e−07 ± 1.177e−06
pull
Entries 87
Mean −250.7
Std Dev 0

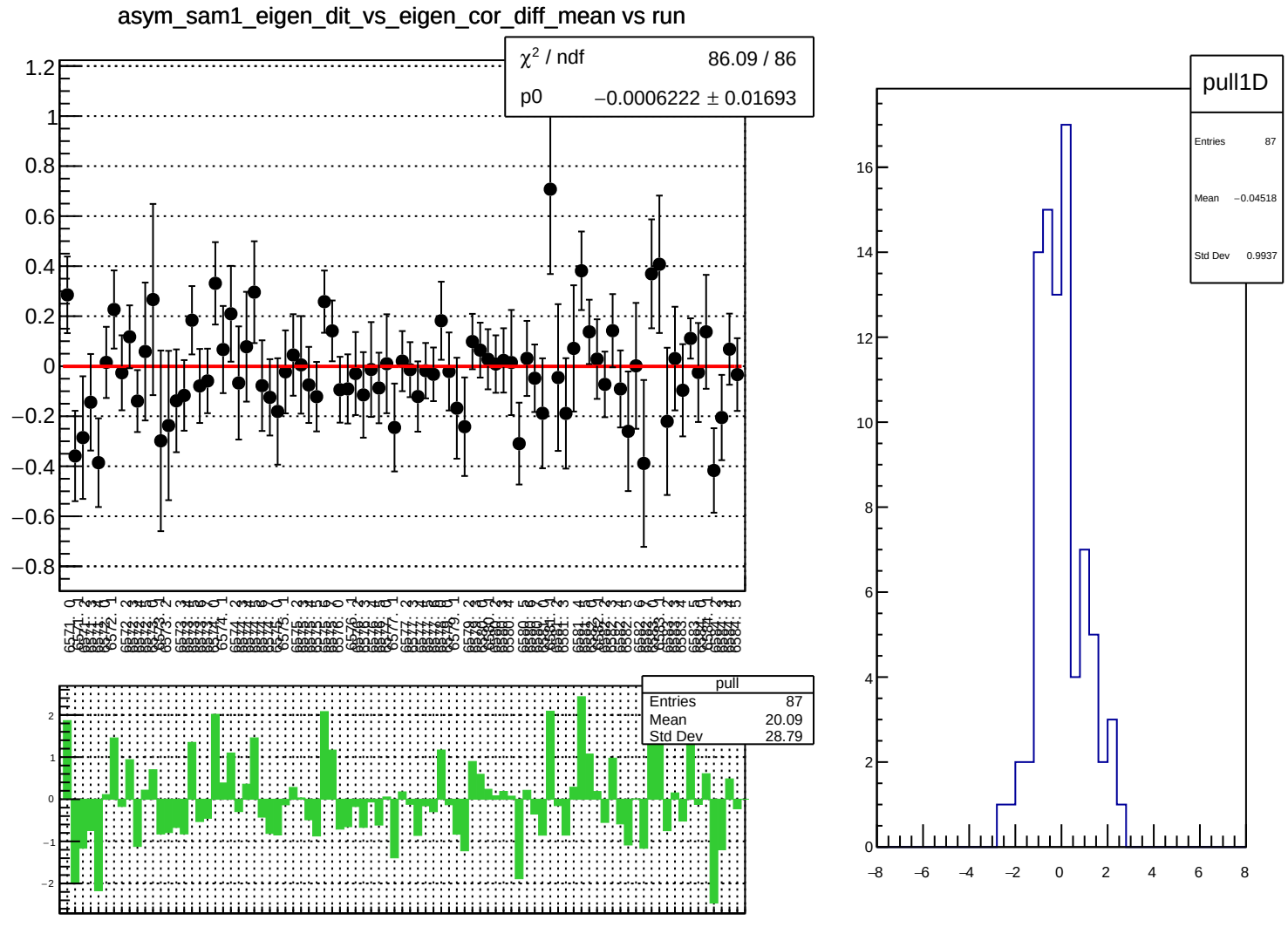

pull1D
Entries 87
Mean 0.008564
Std Dev 1.005

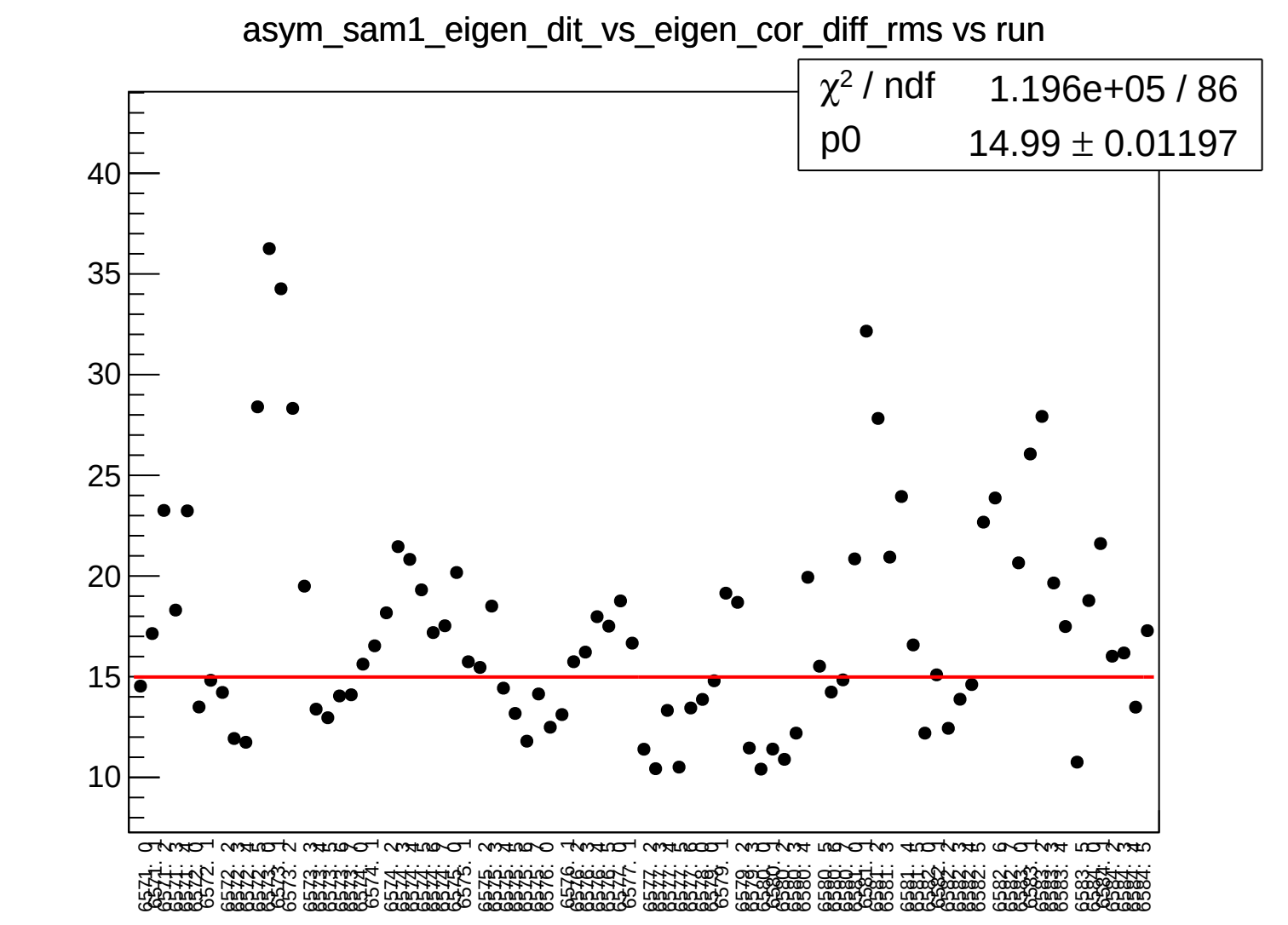

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.354e+04 / 86
p0 0.001077 ± 8.323e−07
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

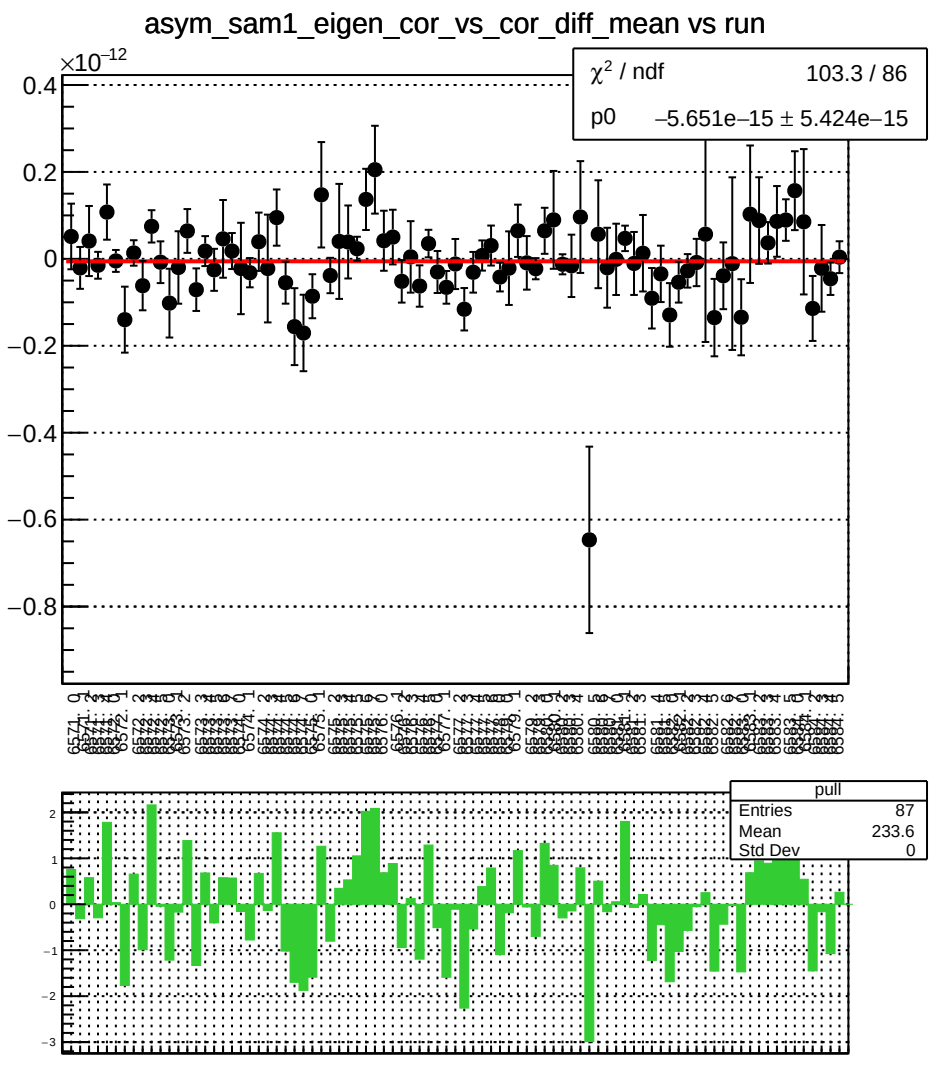

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.09 / 86
p0 −0.0006222 ± 0.01693
pull
Entries 87
Mean 20.09
Std Dev 28.79

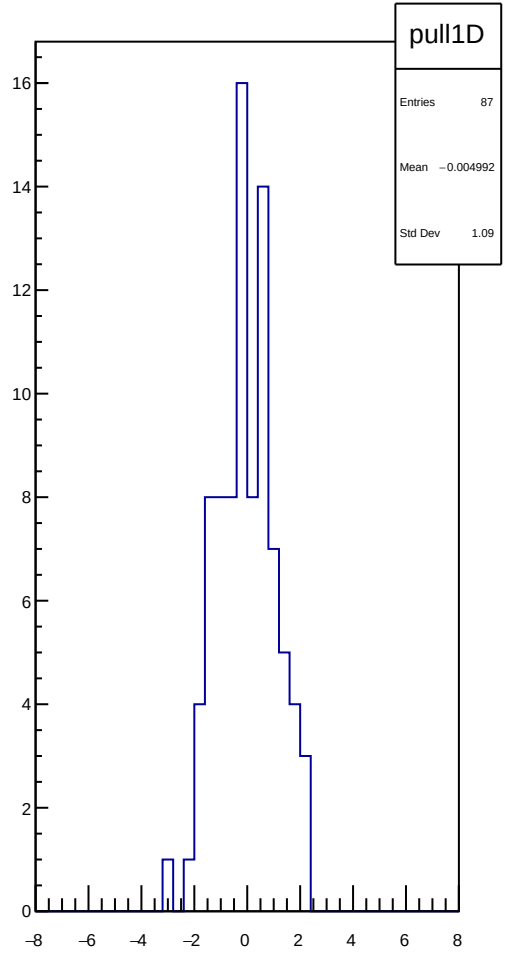

pull1D
Entries 87
Mean −0.04518
Std Dev 0.9937

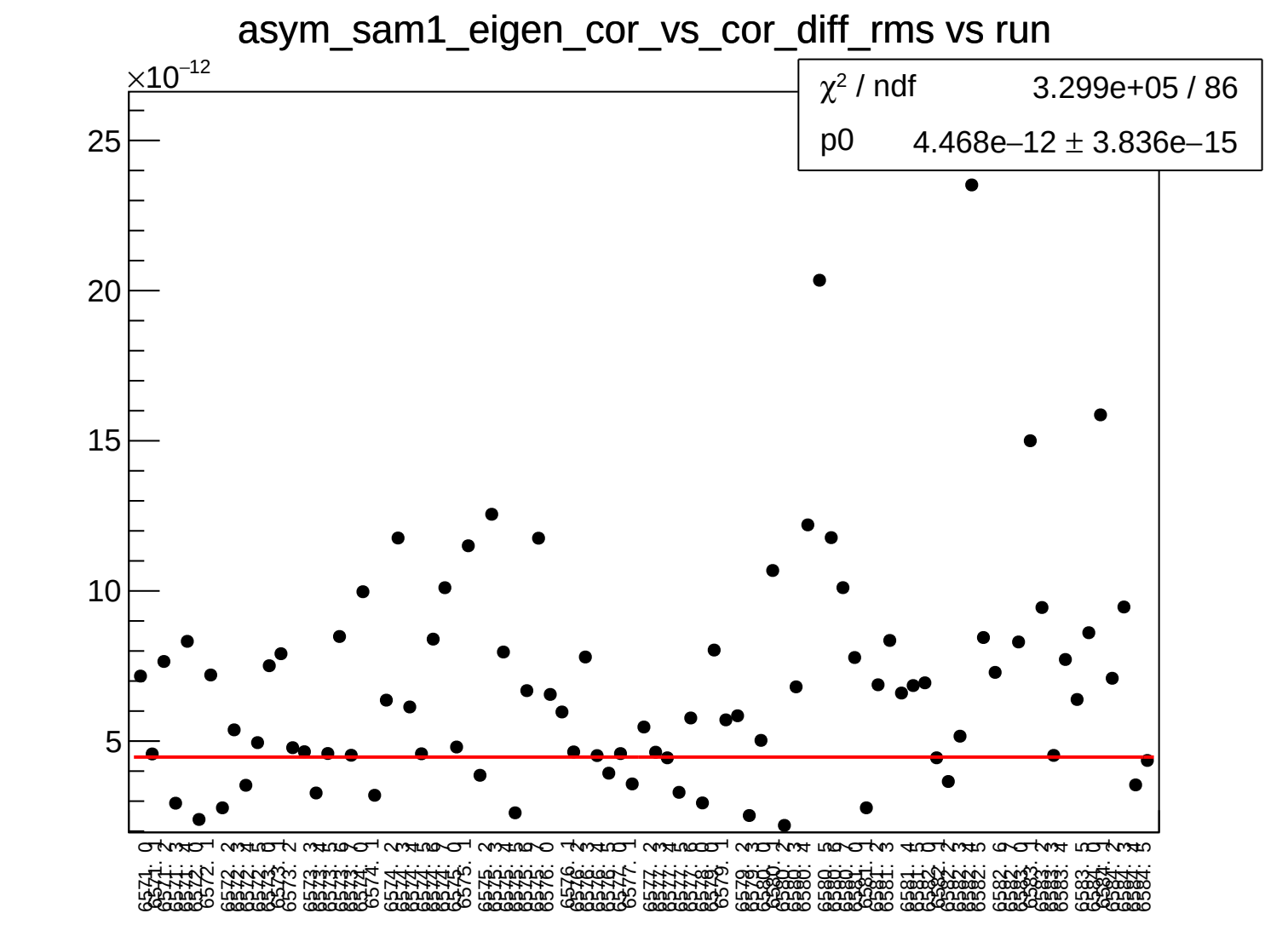

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.196e+05 / 86
p0 14.99 ± 0.01197
40
35
30
25
20
15
10

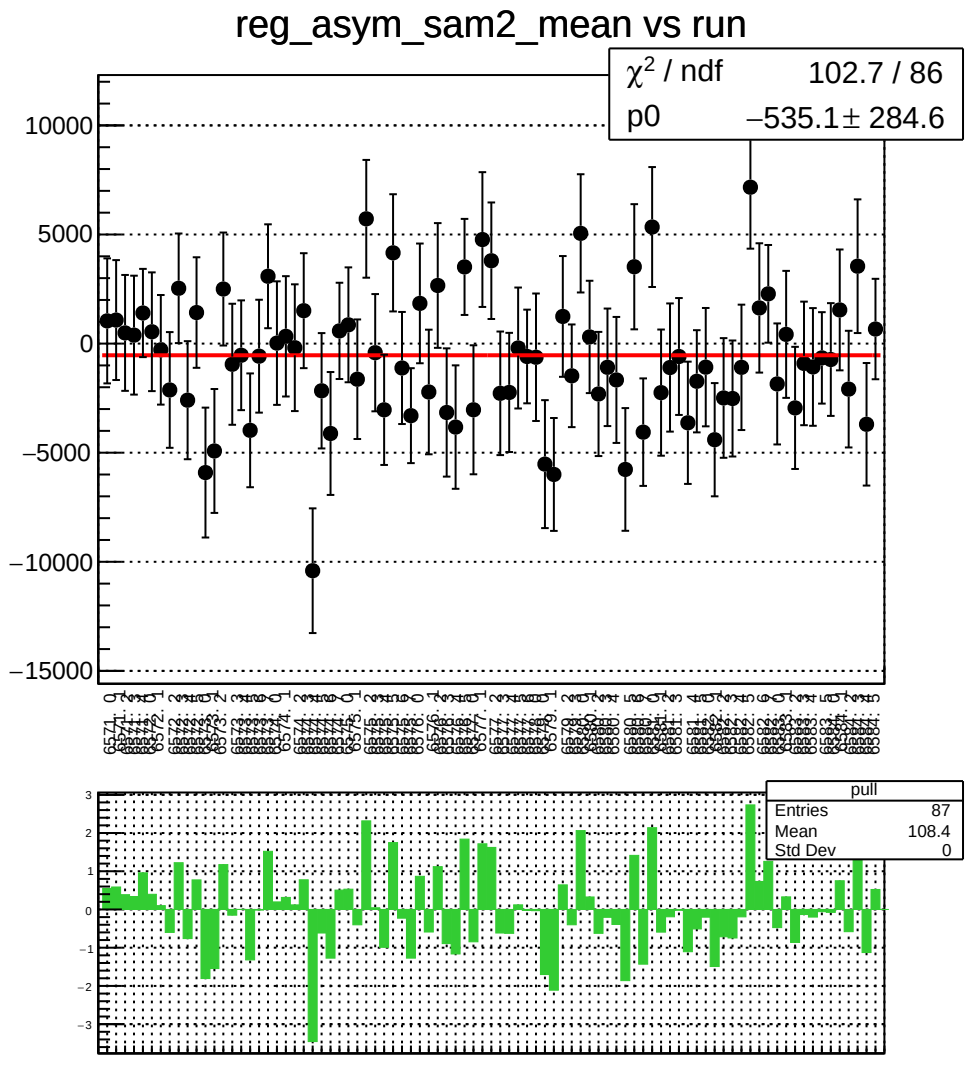

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.09 / 86
p0 −0.0006222 ± 0.01693
pull
Entries 87
Mean 20.09
Std Dev 28.79
pull1D
Entries 87
Mean −0.04518
Std Dev 0.9937

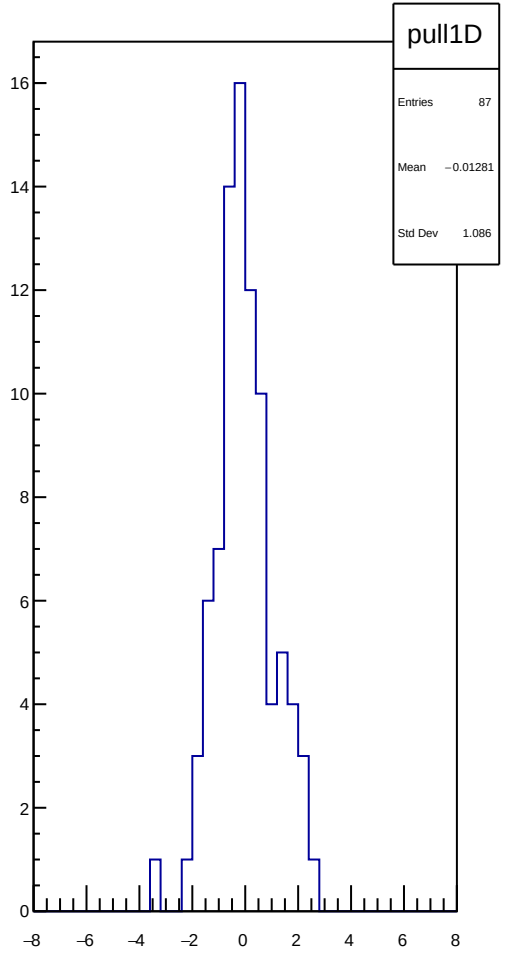

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.196e+05 / 86
p0 14.99 ± 0.01197
40
35
30
25
20
15
10

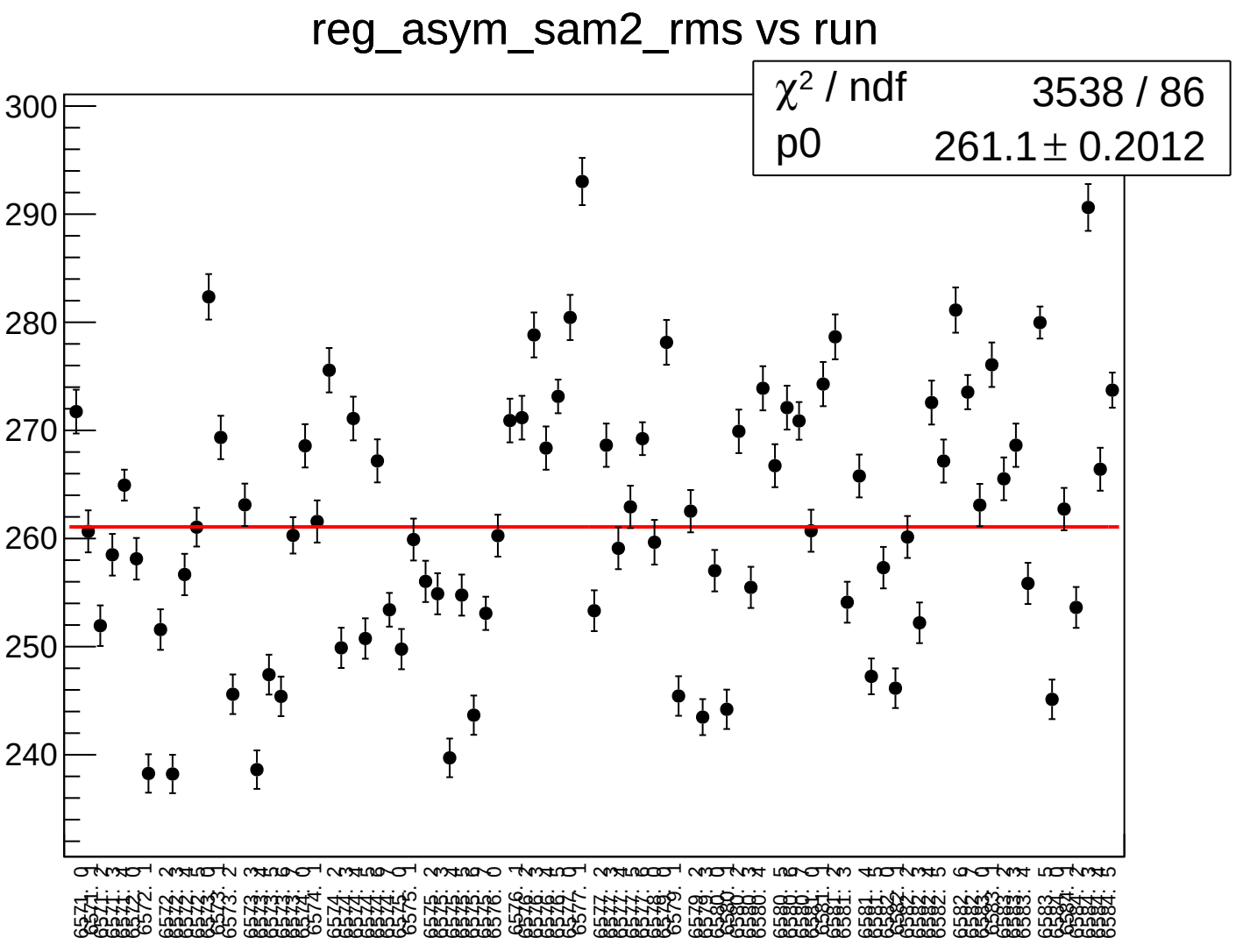

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 103.3 / 86
p0 −5.651e−15 ± 5.424e−15
pull
Entries 87
Mean 233.6
Std Dev 0

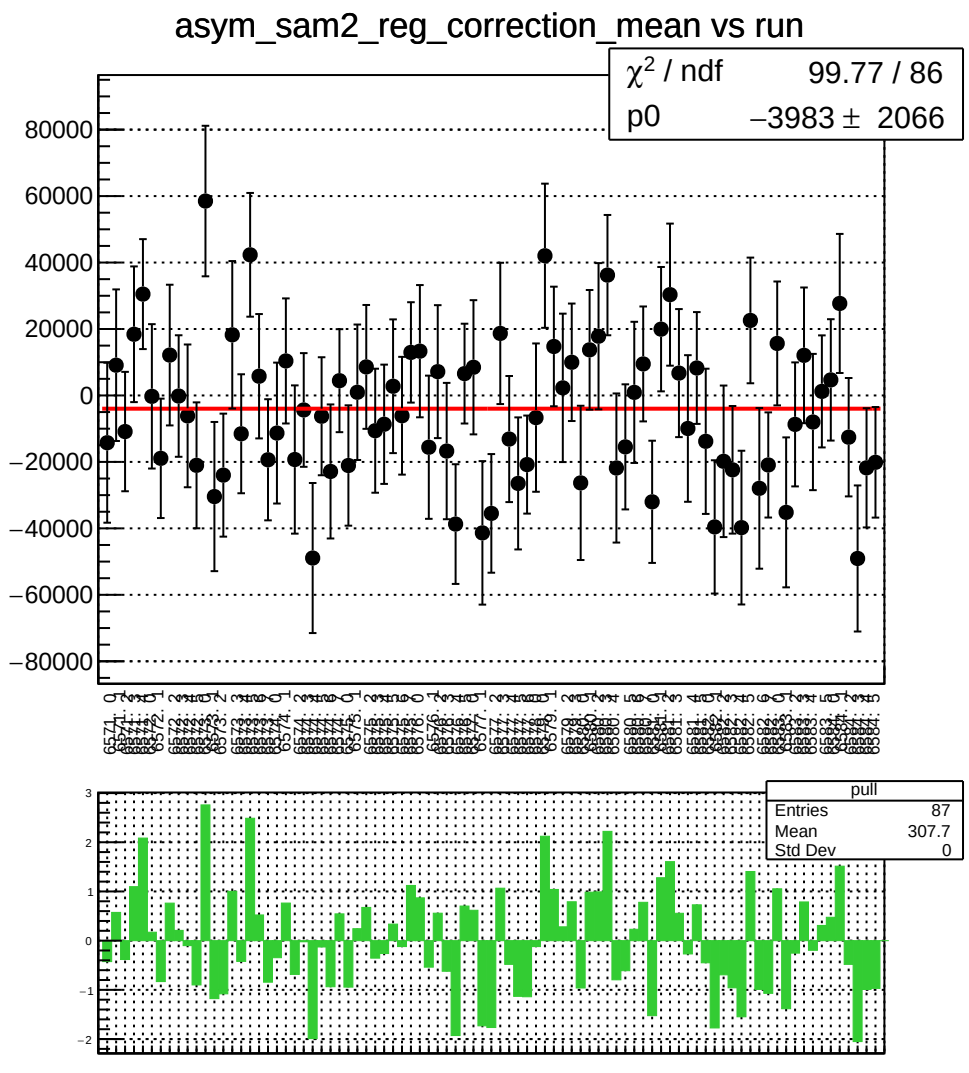

pull1D
Entries 87
Mean −0.004992
Std Dev 1.09

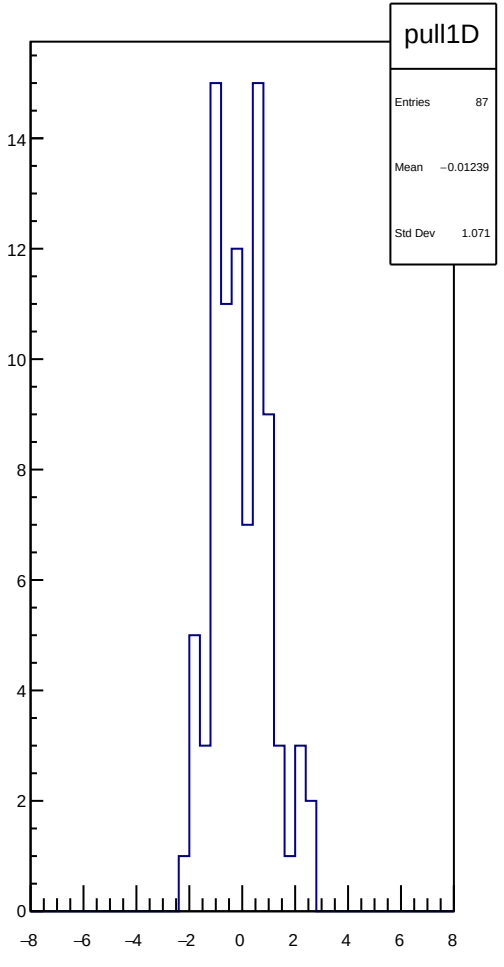

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.299e+05 / 86
p0 4.468e−12 ± 3.836e−15
25
20
15
10
5

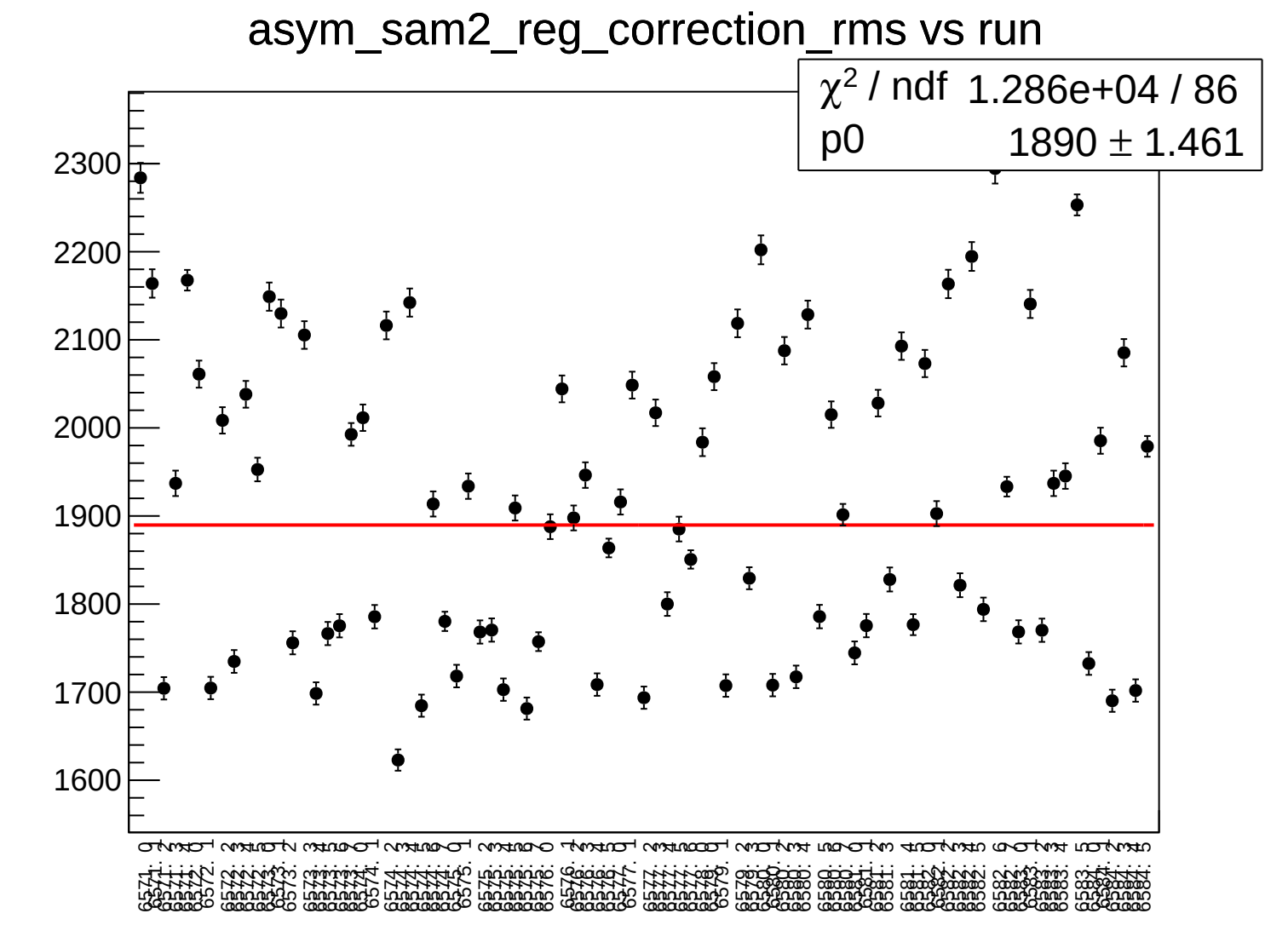

reg_asym_sam2_mean vs run
χ² / ndf 102.7 / 86
p0 −535.1 ± 284.6
pull
Entries 87
Mean 108.4
Std Dev 0

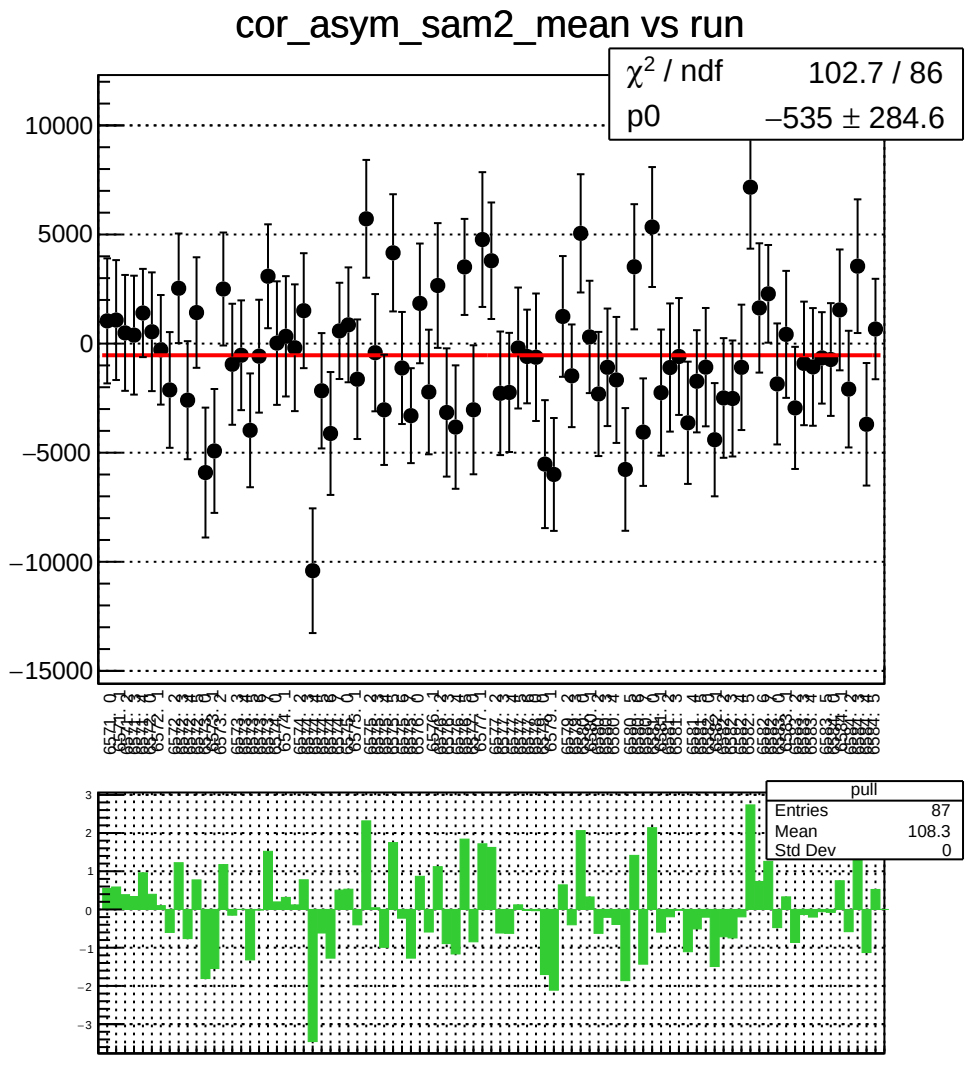

pull1D
Entries 87
Mean −0.01281
Std Dev 1.086

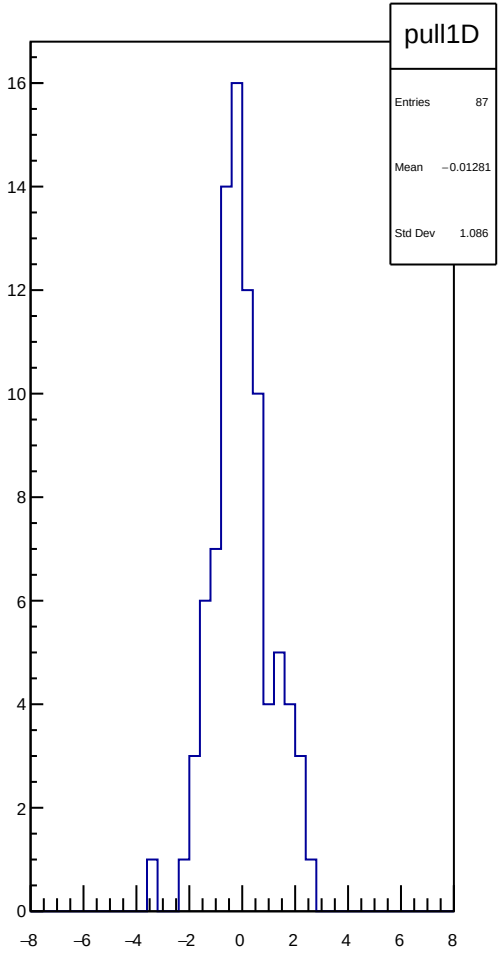

reg_asym_sam2_rms vs run
χ² / ndf 3538 / 86
p0 261.1 ± 0.2012
300
290
280
270
260
250
240

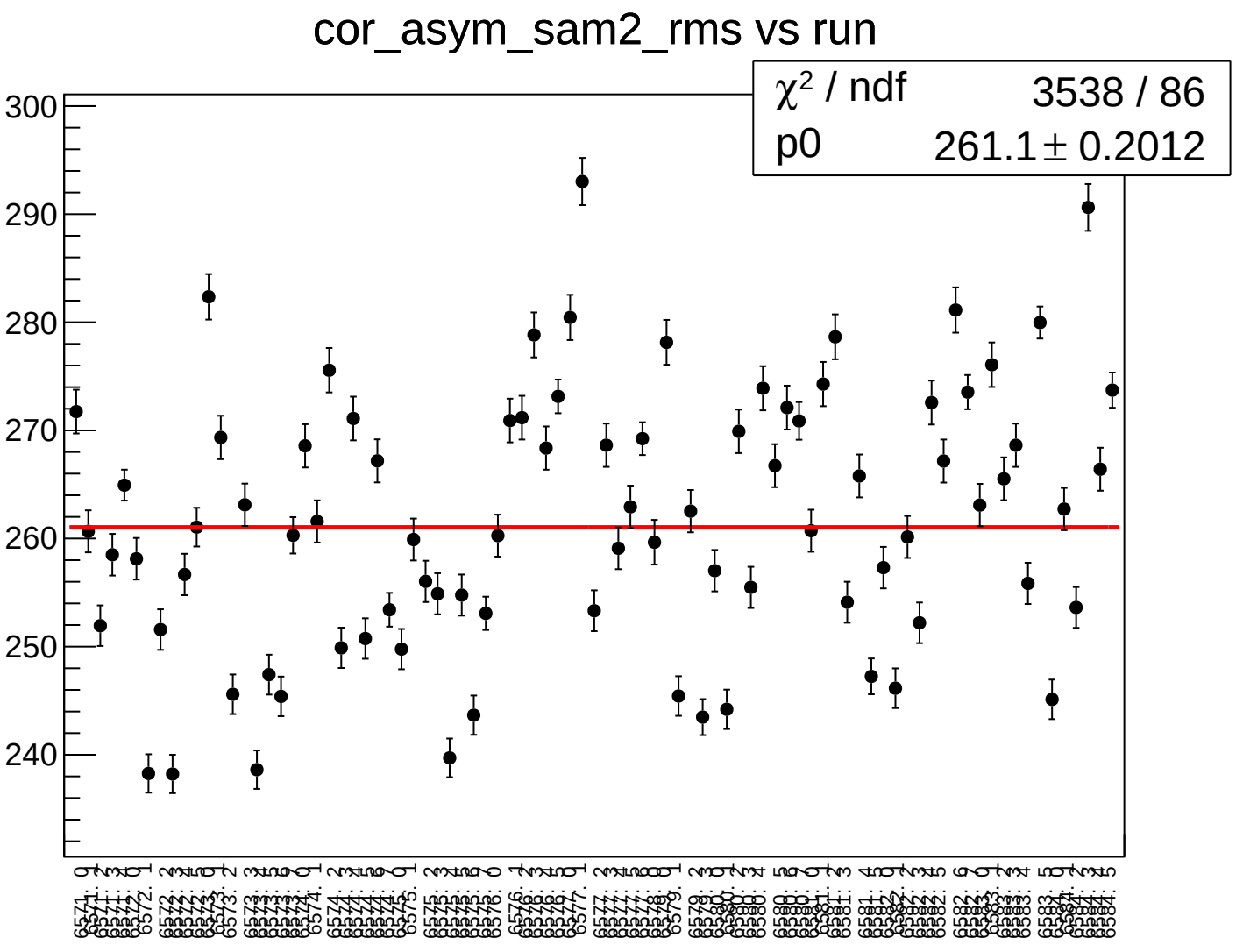

asym_sam2_reg_correction_mean vs run
χ² / ndf 99.77 / 86
p0 −3983 ± 2066
pull
Entries 87
Mean 307.7
Std Dev 0

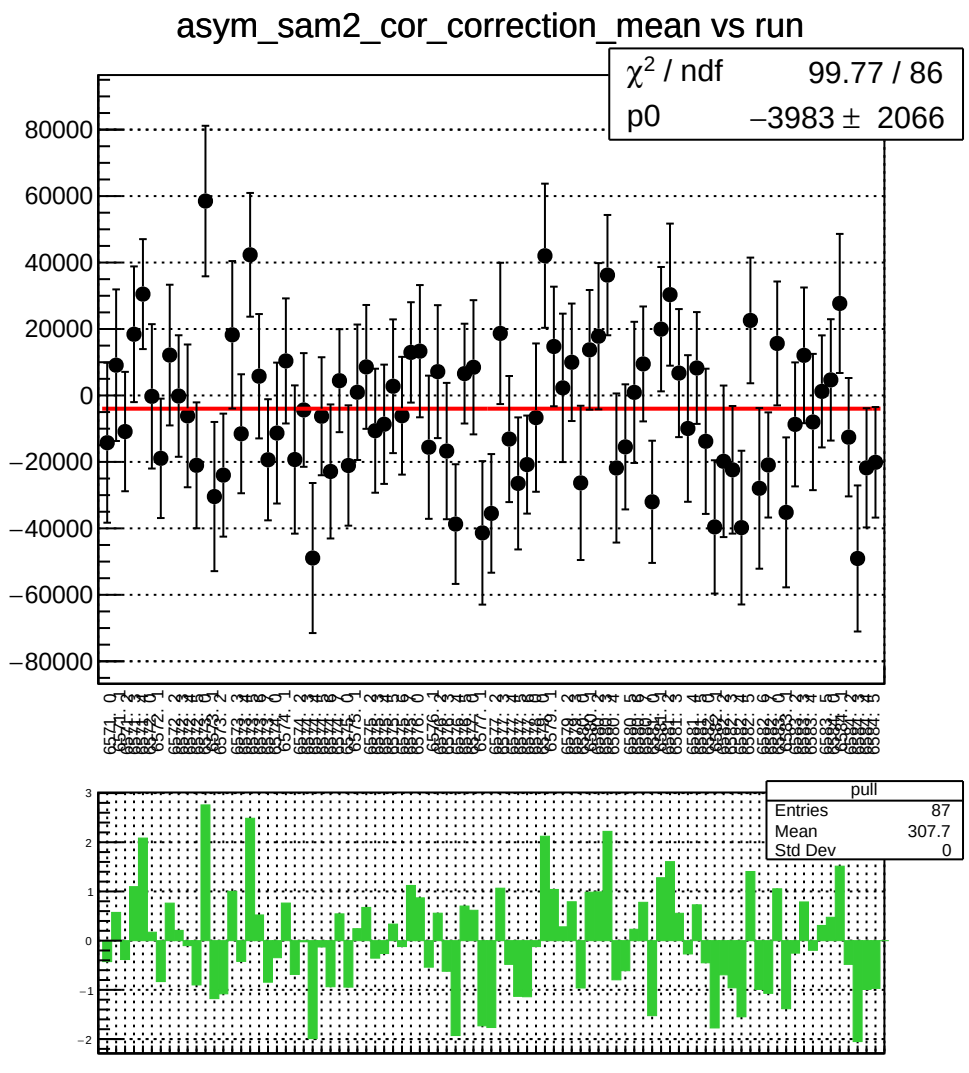

pull1D
Entries 87
Mean −0.01239
Std Dev 1.071

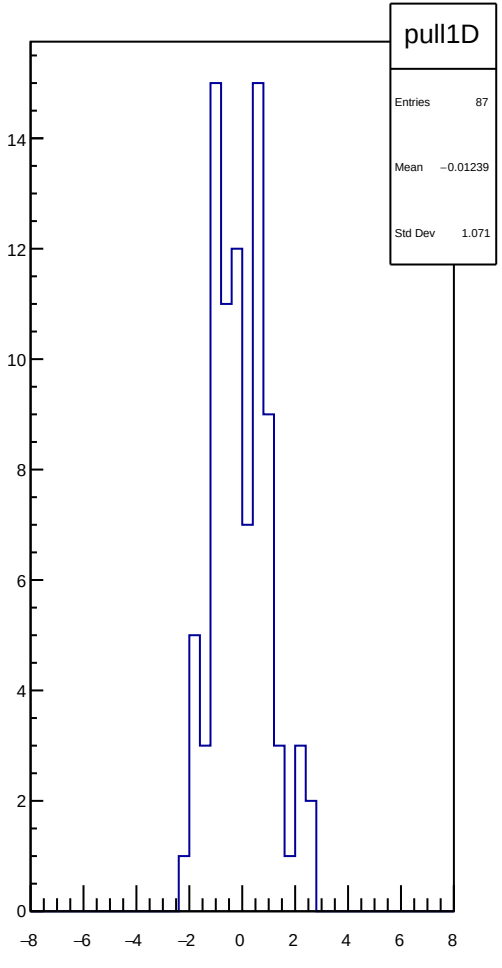

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.286e+04 / 86
p0 1890 ± 1.461
2300
2200
2100
2000
1900
1800
1700
1600

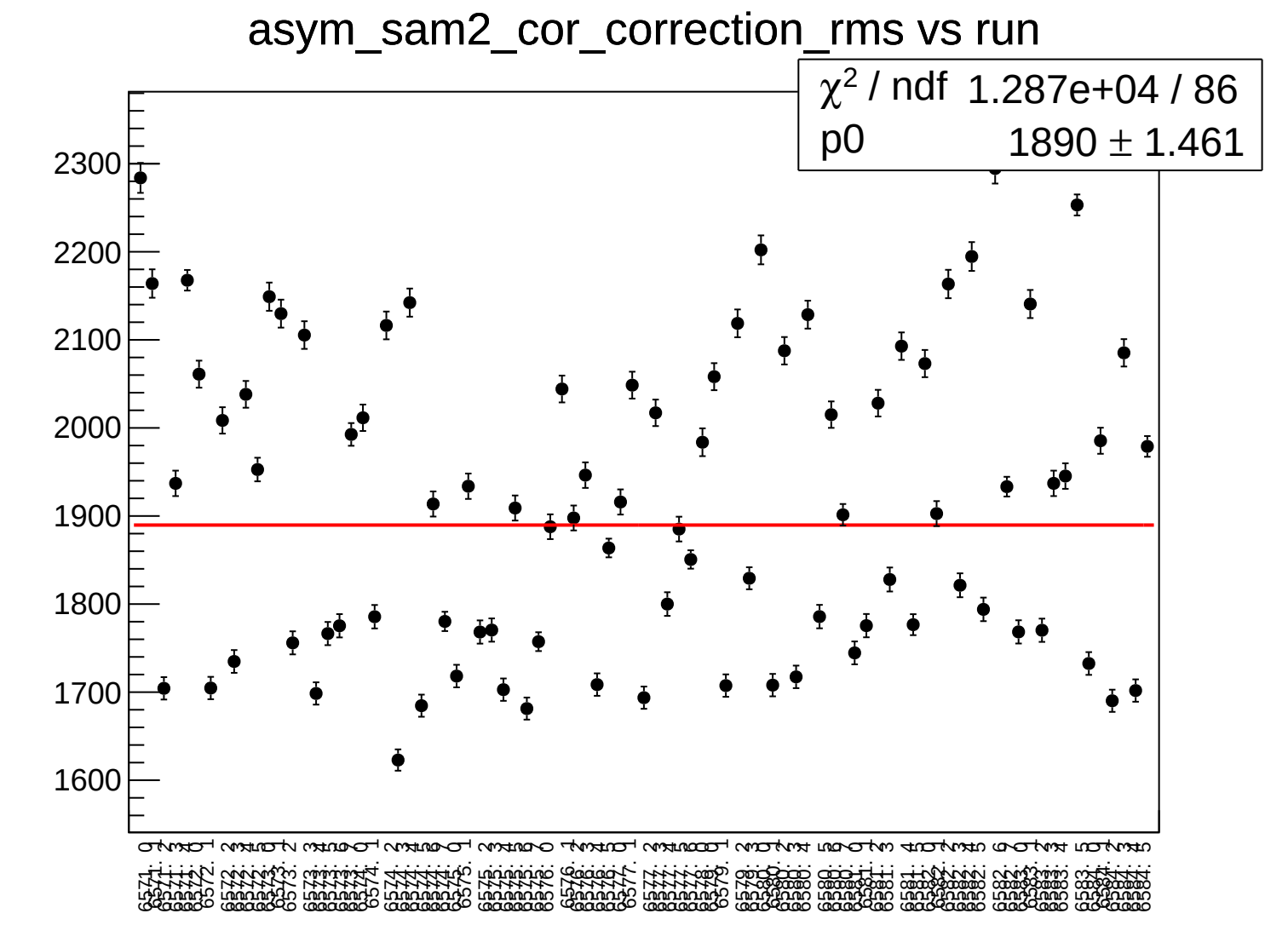

cor_asym_sam2_mean vs run
χ² / ndf 102.7 / 86
p0 −535 ± 284.6
pull
Entries 87
Mean 108.3
Std Dev 0

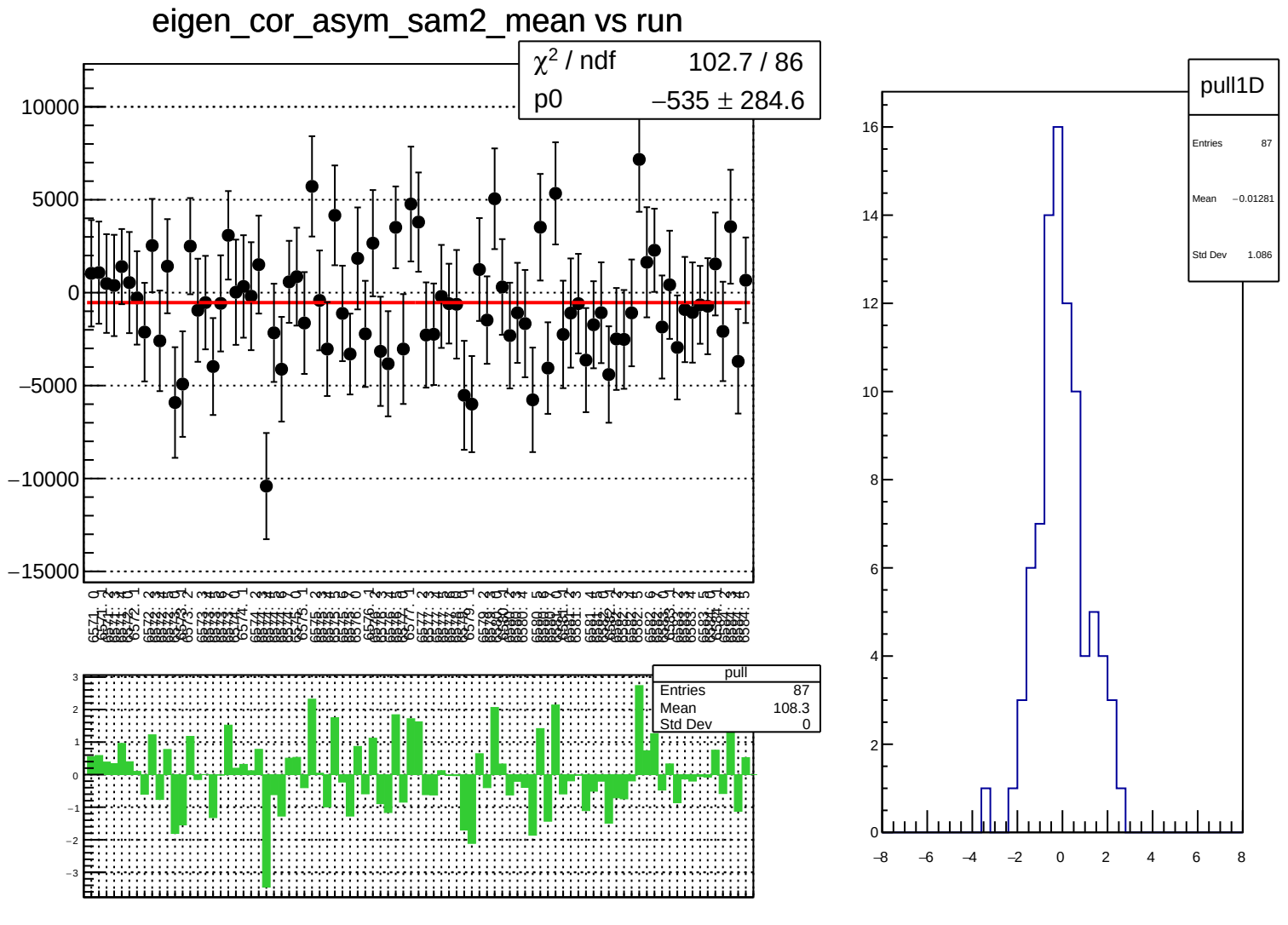

pull1D
Entries 87
Mean −0.01281
Std Dev 1.086

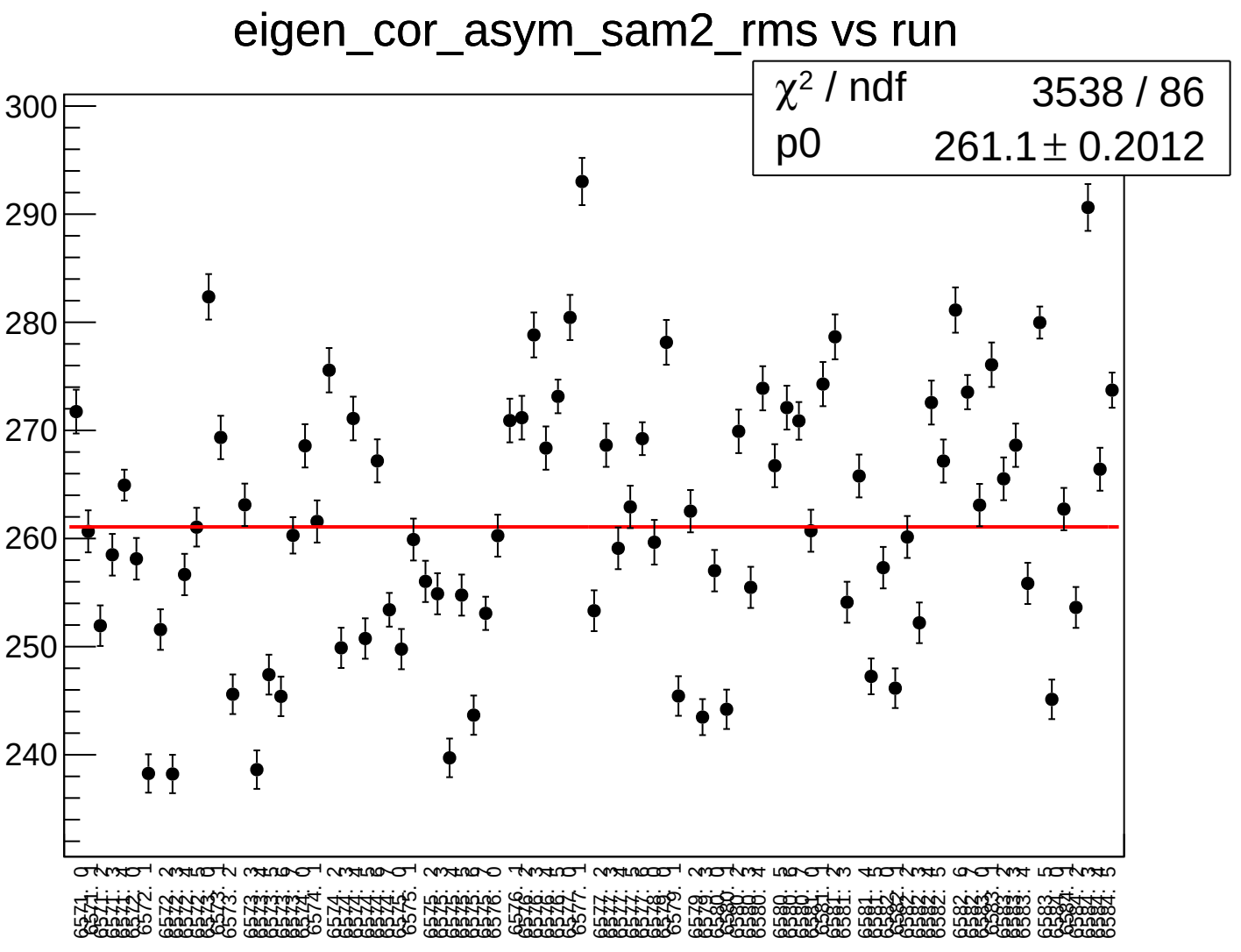

cor_asym_sam2_rms vs run
χ² / ndf 3538 / 86
p0 261.1 ± 0.2012
300
290
280
270
260
250
240

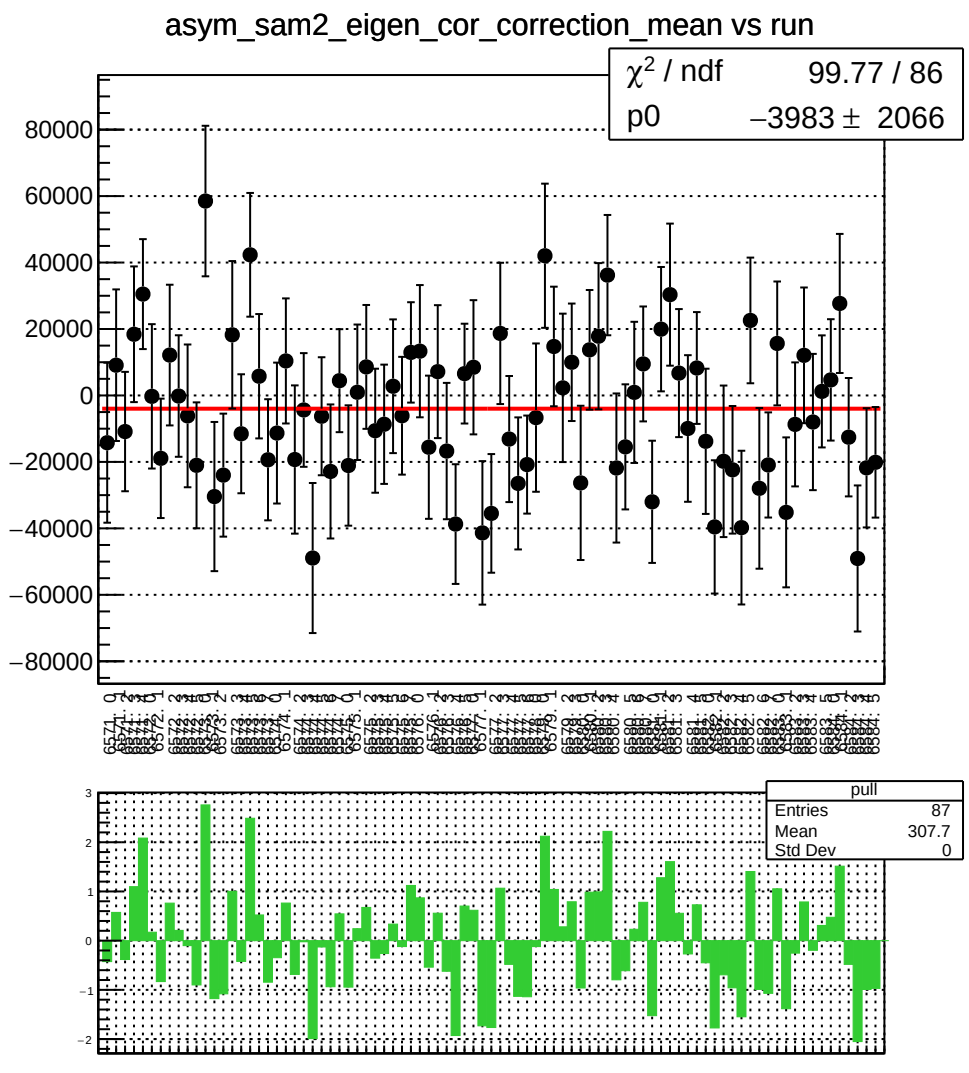

asym_sam2_cor_correction_mean vs run
χ² / ndf 99.77 / 86
p0 −3983 ± 2066
pull
Entries 87
Mean 307.7
Std Dev 0

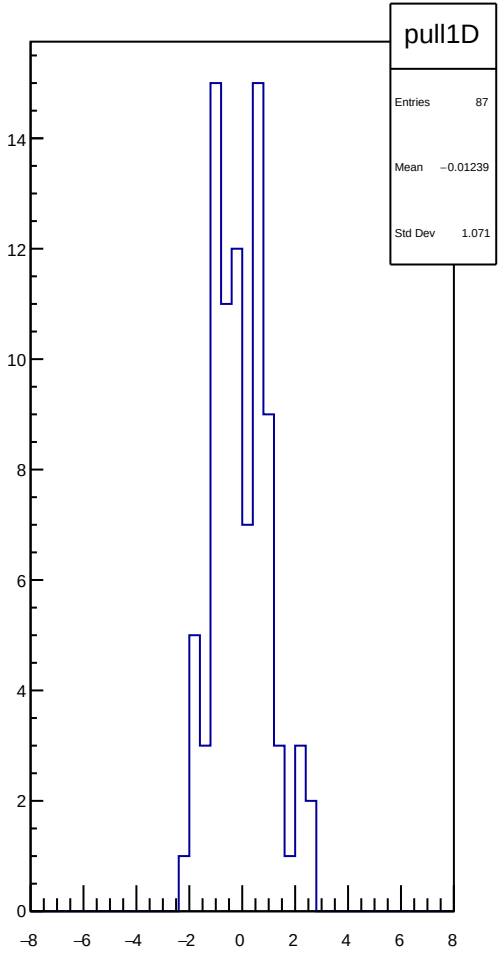

pull1D
Entries 87
Mean −0.01239
Std Dev 1.071

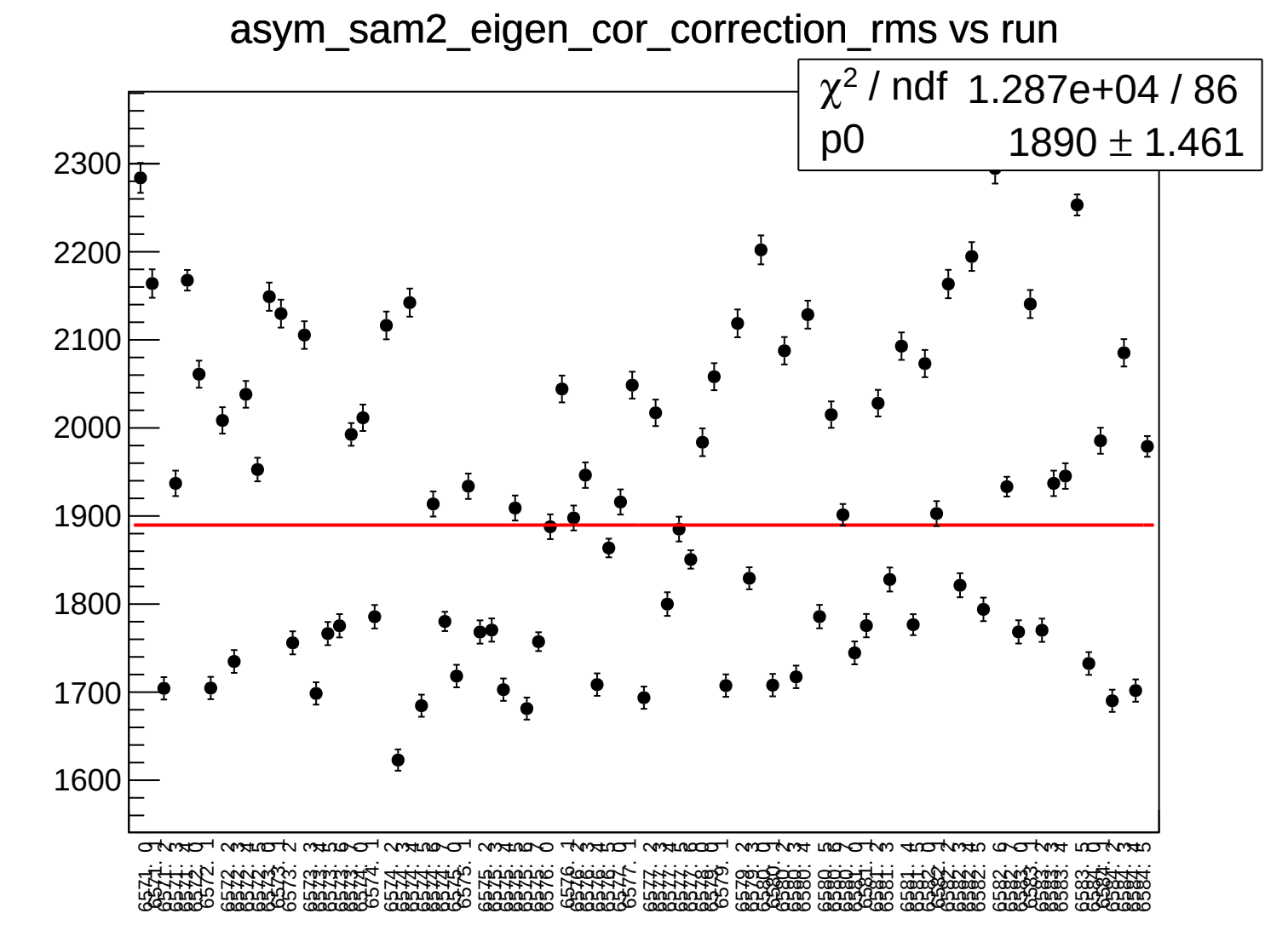

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.287e+04 / 86
p0 1890 ± 1.461
2300
2200
2100
2000
1900
1800
1700
1600

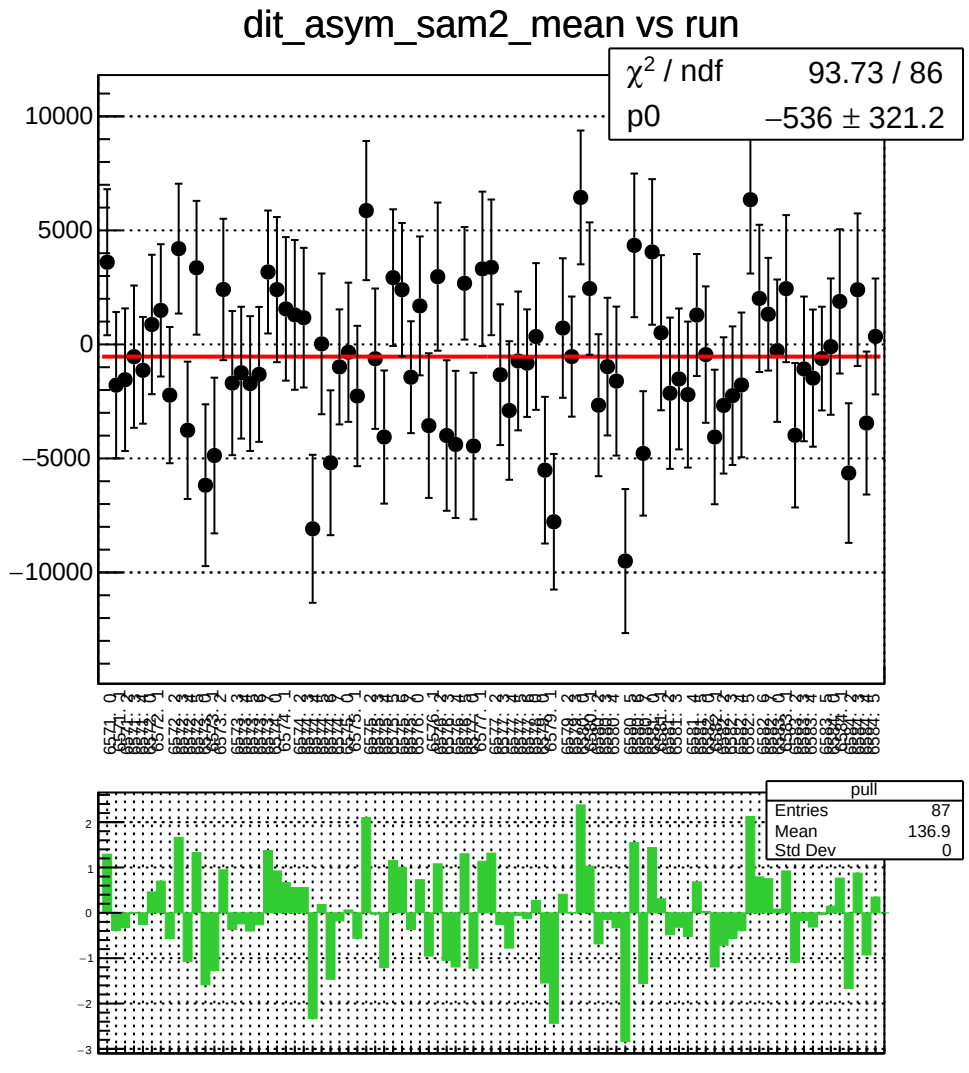

eigen_cor_asym_sam2_mean vs run
χ² / ndf 102.7 / 86
p0 −535 ± 284.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 108.3
Std Dev 0
pull1D
Entries 87
Mean −0.01281
Std Dev 1.086

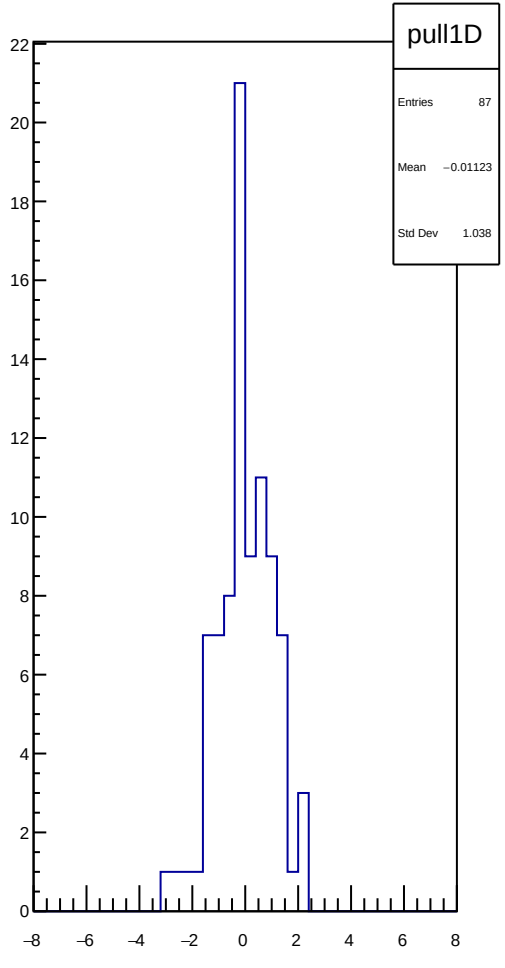

eigen_cor_asym_sam2_rms vs run
χ² / ndf 3538 / 86
p0 261.1 ± 0.2012
300
290
280
270
260
250
240

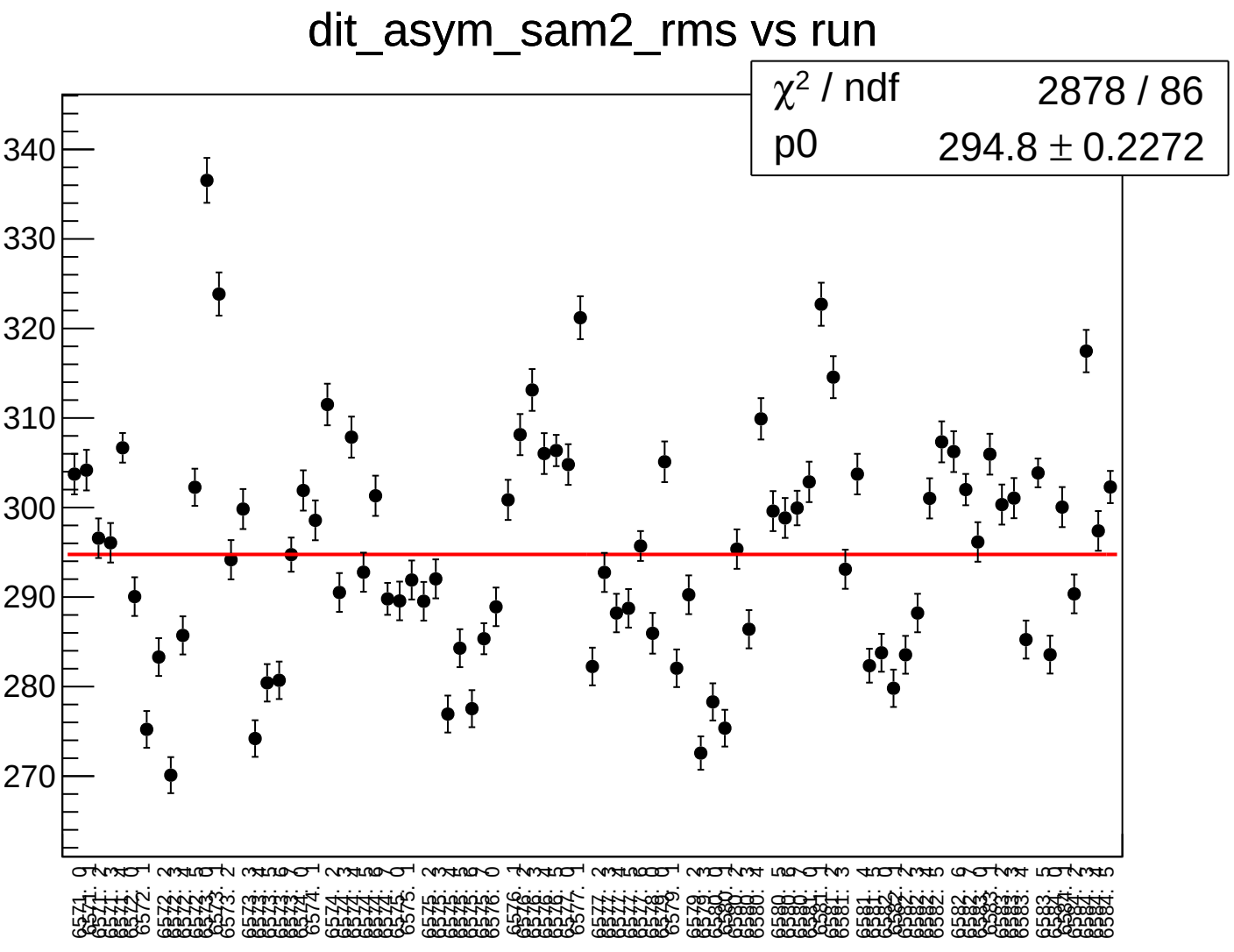

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 99.77 / 86
p0 −3983 ± 2066
pull
Entries 87
Mean 307.7
Std Dev 0

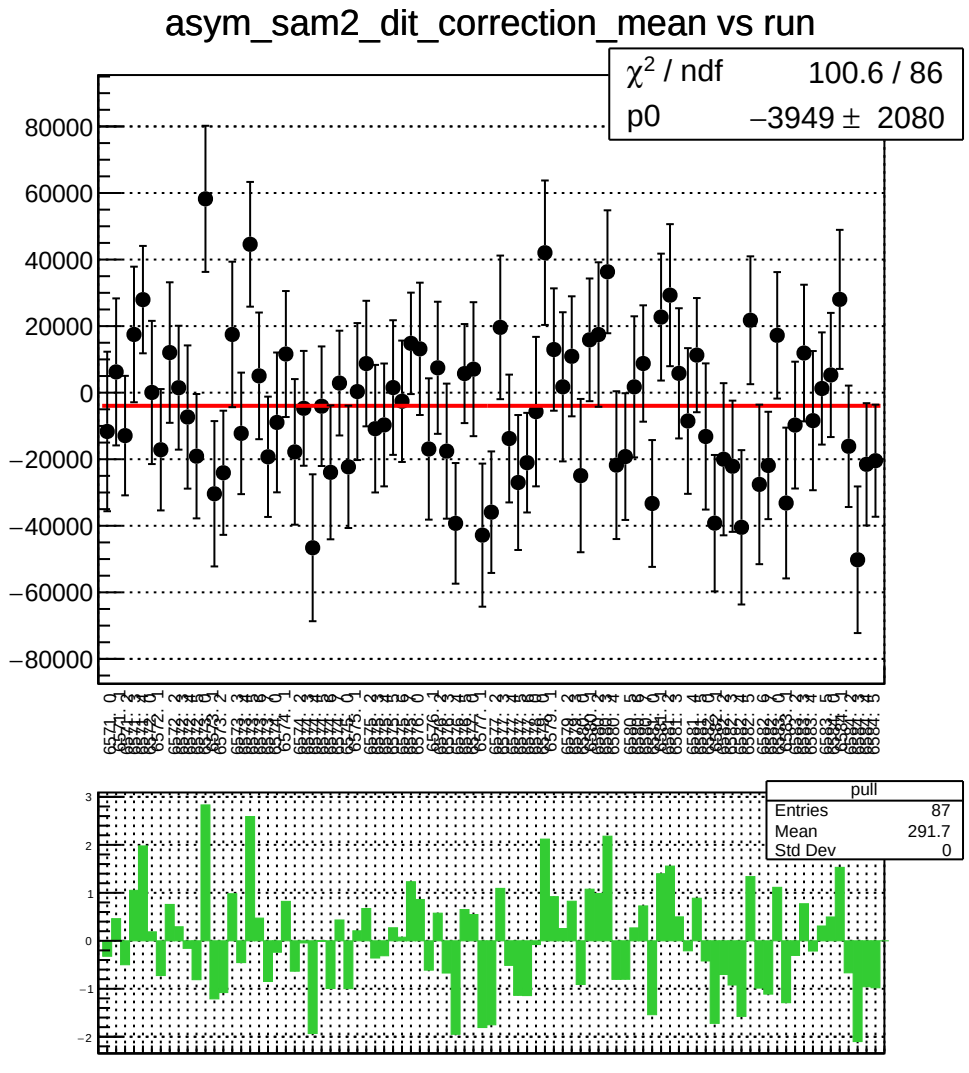

pull1D
Entries 87
Mean −0.01239
Std Dev 1.071

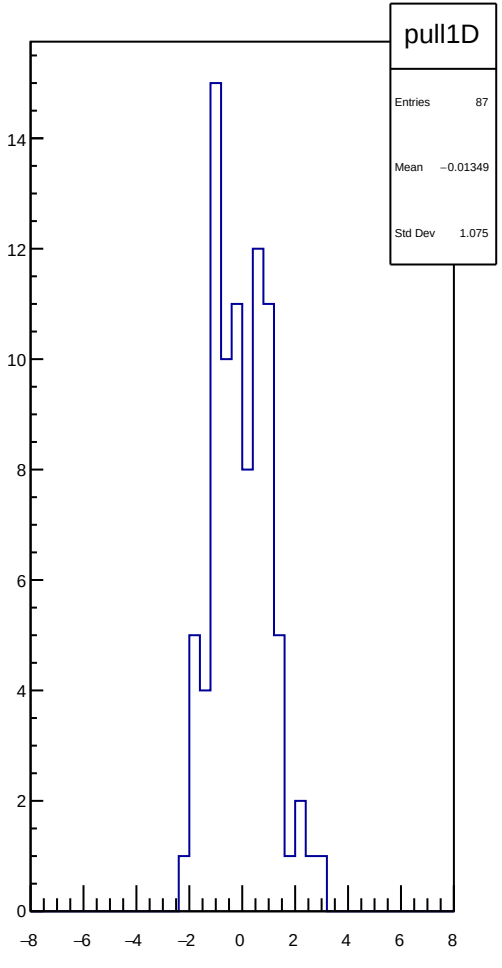

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.287e+04 / 86
p0 1890 ± 1.461
2300
2200
2100
2000
1900
1800
1700
1600


dit_asym_sam2_mean vs run
χ² / ndf 93.73 / 86
p0 −536 ± 321.2
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 136.9
Std Dev 0
2
1
0
−1
−2
−3

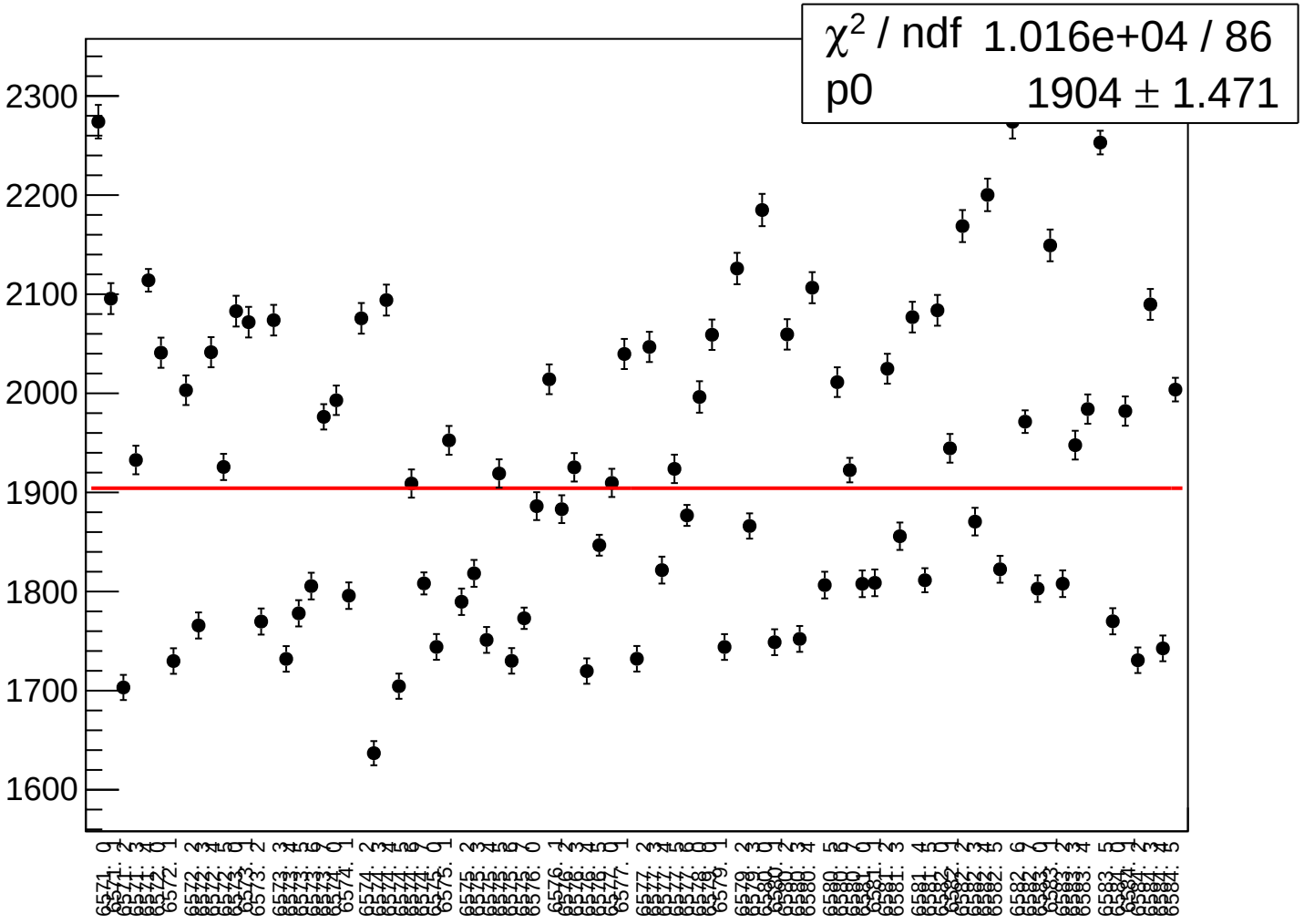

pull1D
Entries 87
Mean −0.01123
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

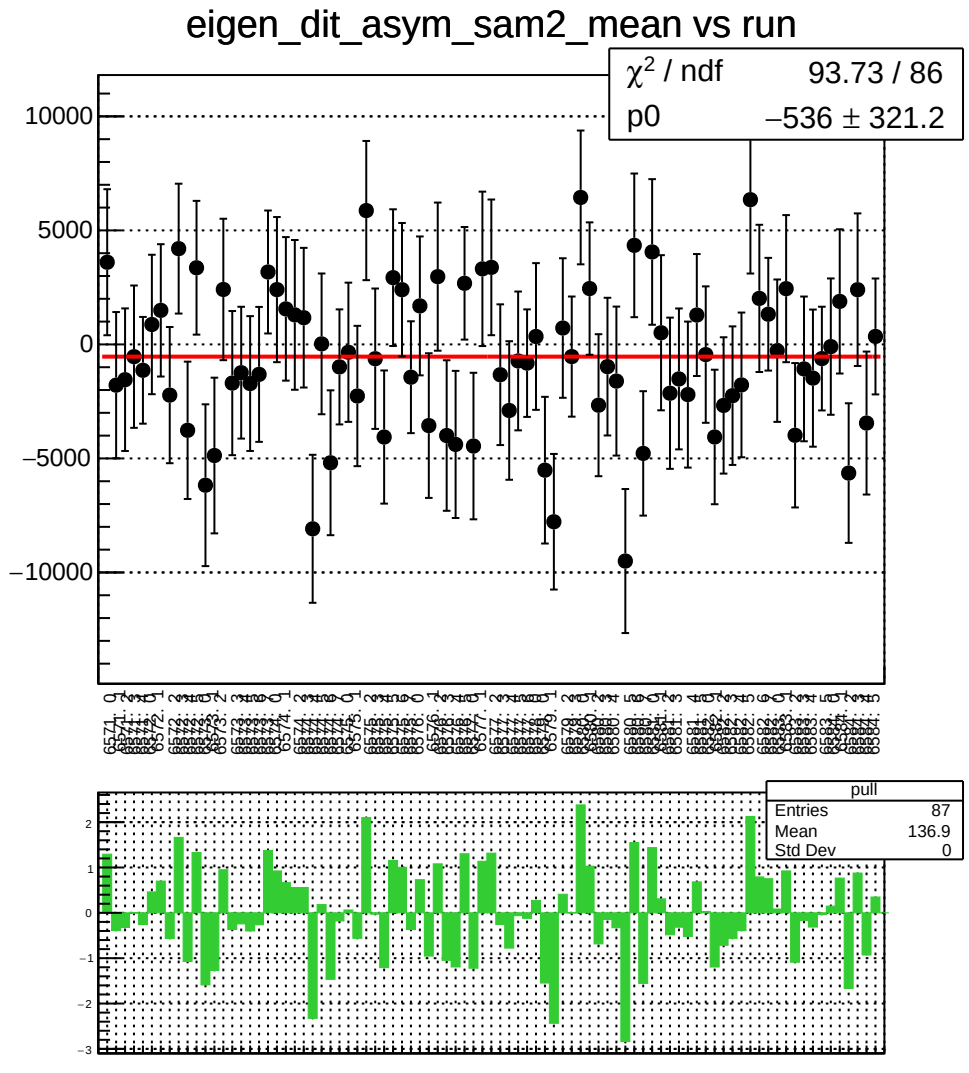

dit_asym_sam2_rms vs run
χ² / ndf 2878 / 86
p0 294.8 ± 0.2272
340
330
320
310
300
290
280
270

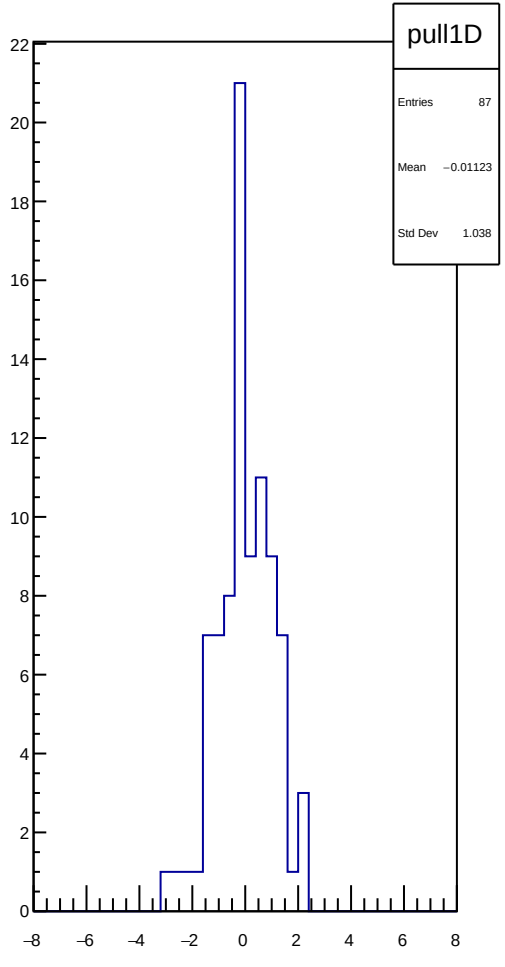

asym_sam2_dit_correction_mean vs run
χ² / ndf 100.6 / 86
p0 −3949 ± 2080
pull
Entries 87
Mean 291.7
Std Dev 0

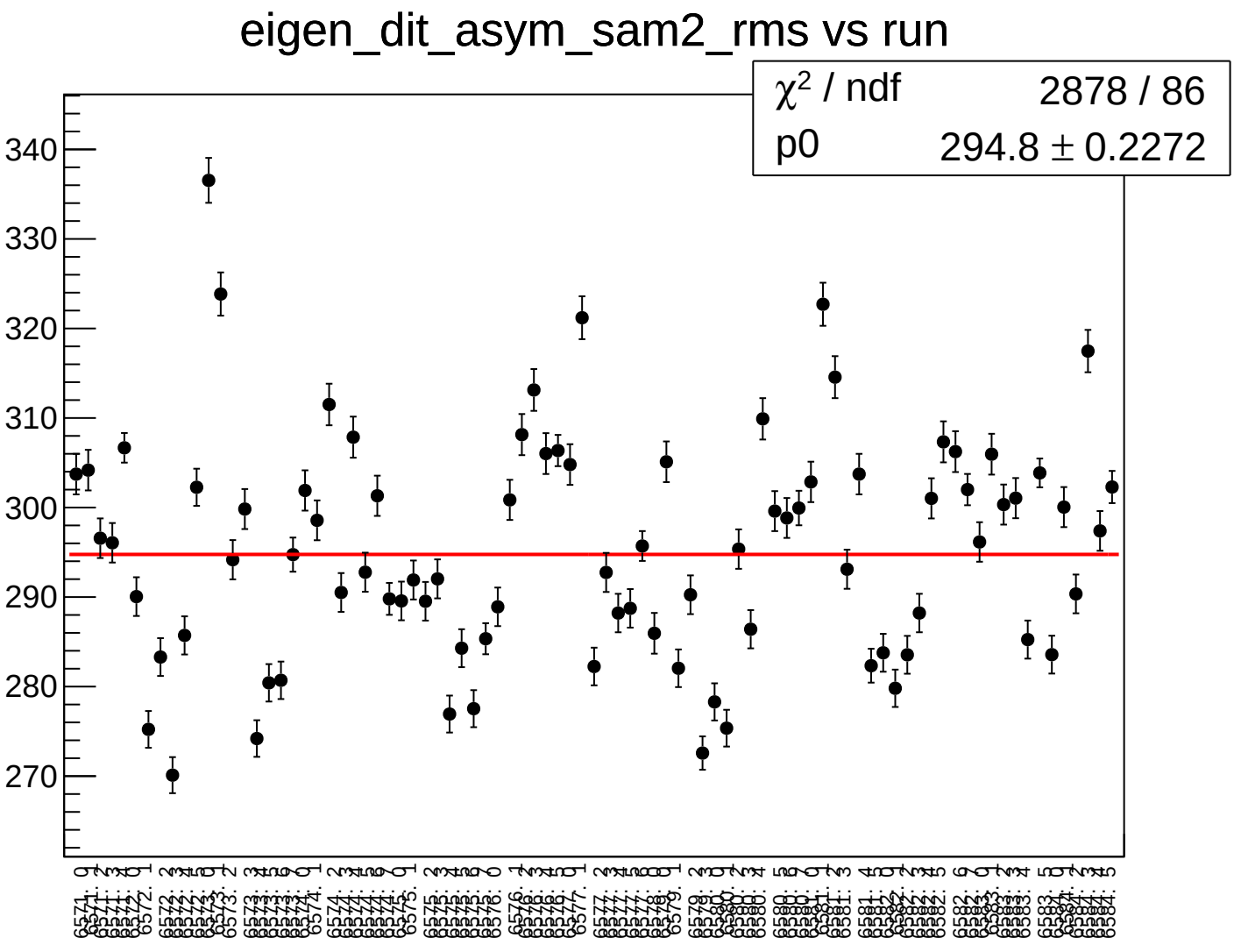

pull1D
Entries 87
Mean −0.01349
Std Dev 1.075

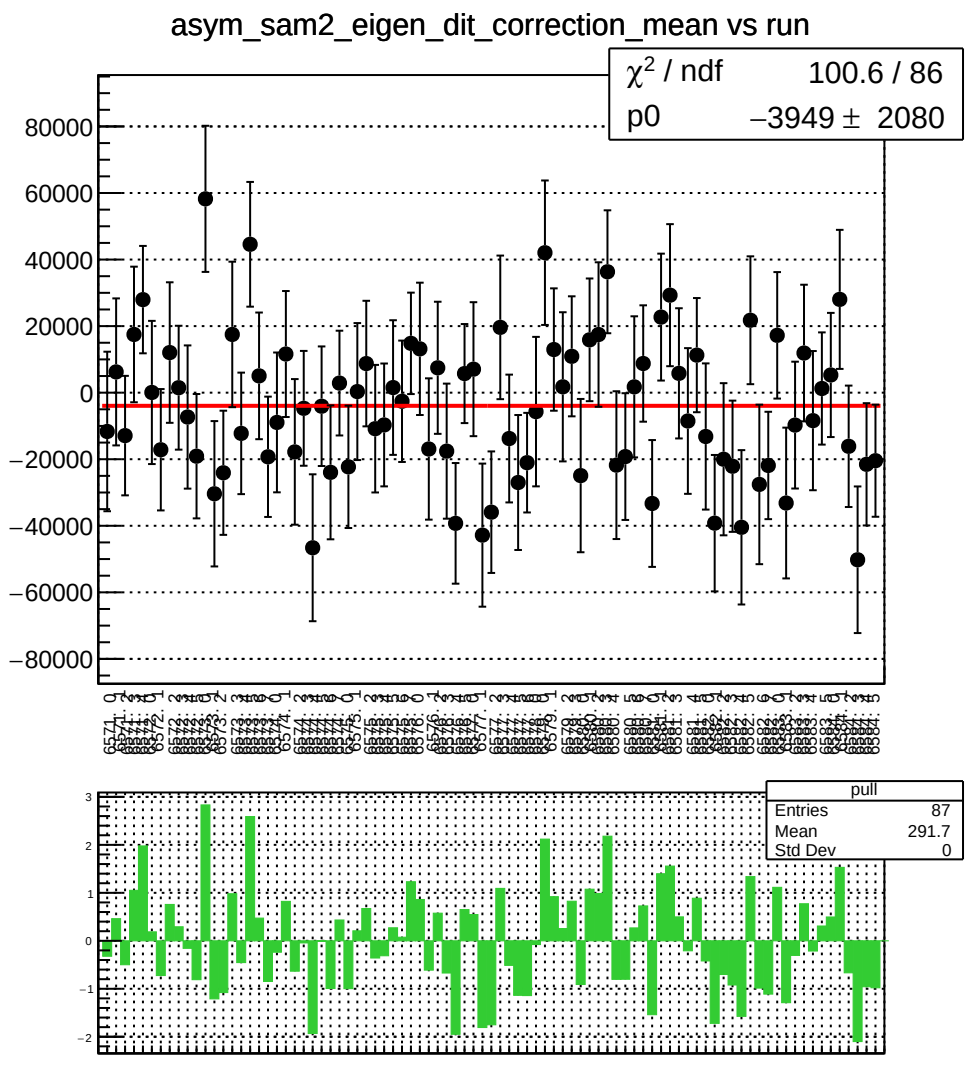
asym_sam2_dit_correction_rms vs run

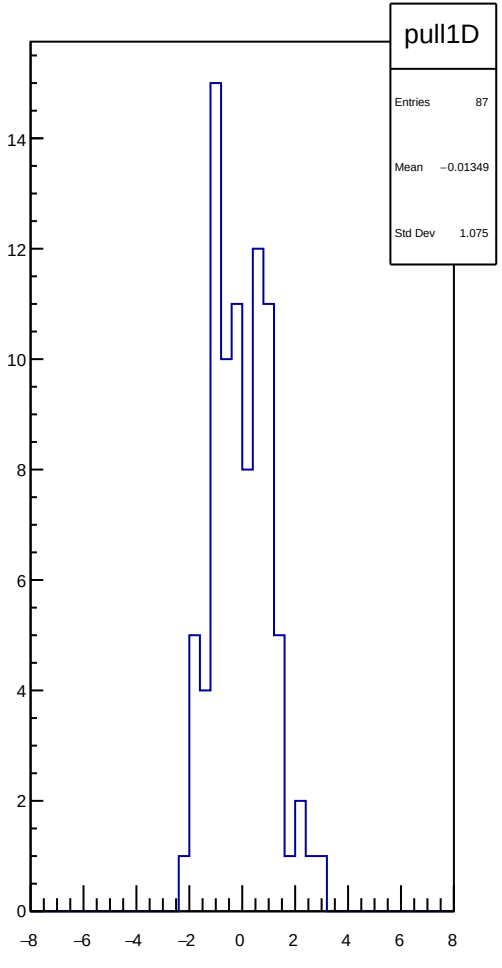


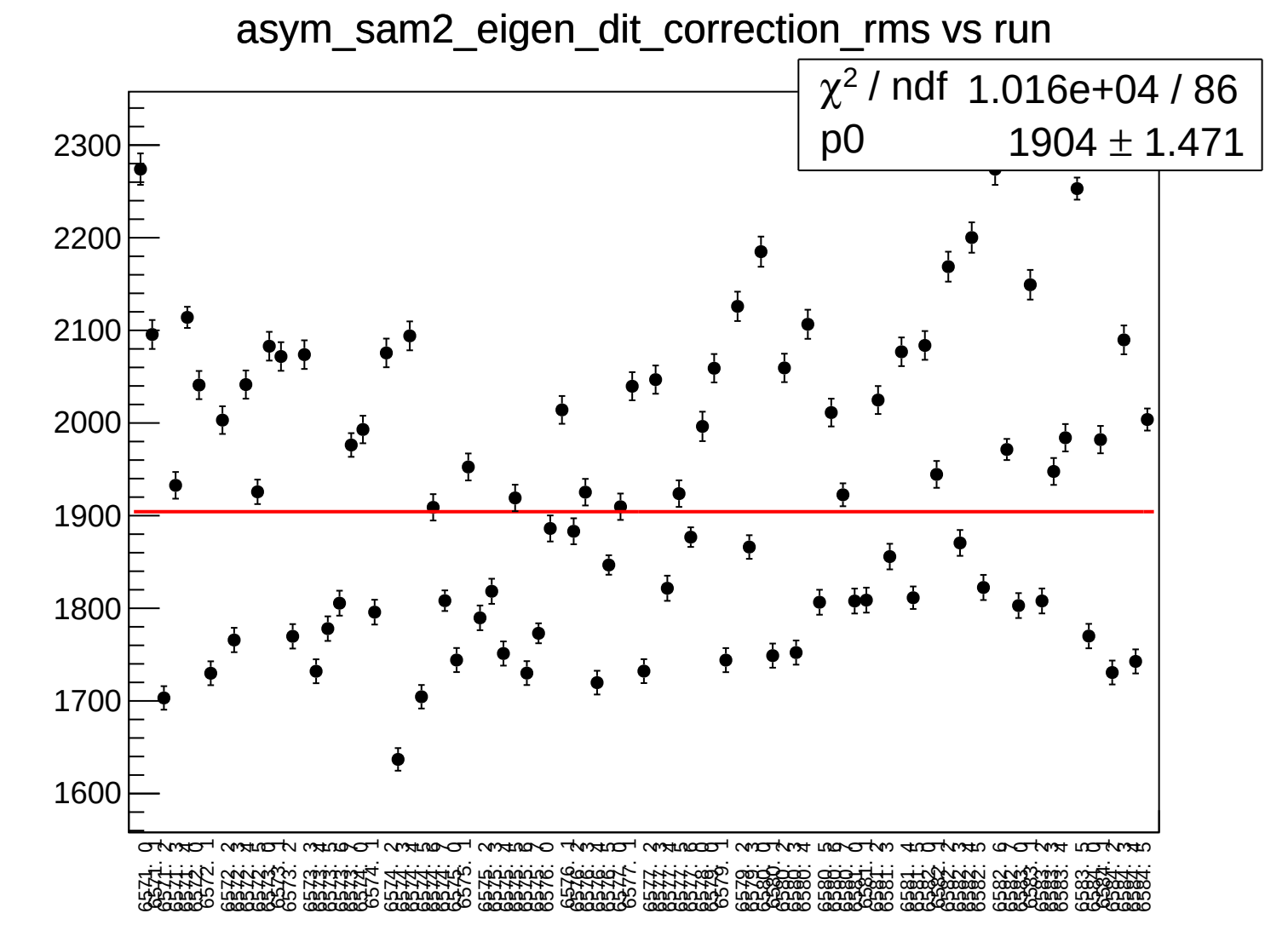

eigen_dit_asym_sam2_mean vs run
χ² / ndf 93.73 / 86
p0 −536 ± 321.2
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 136.9
Std Dev 0
2
1
0
−1
−2
−3

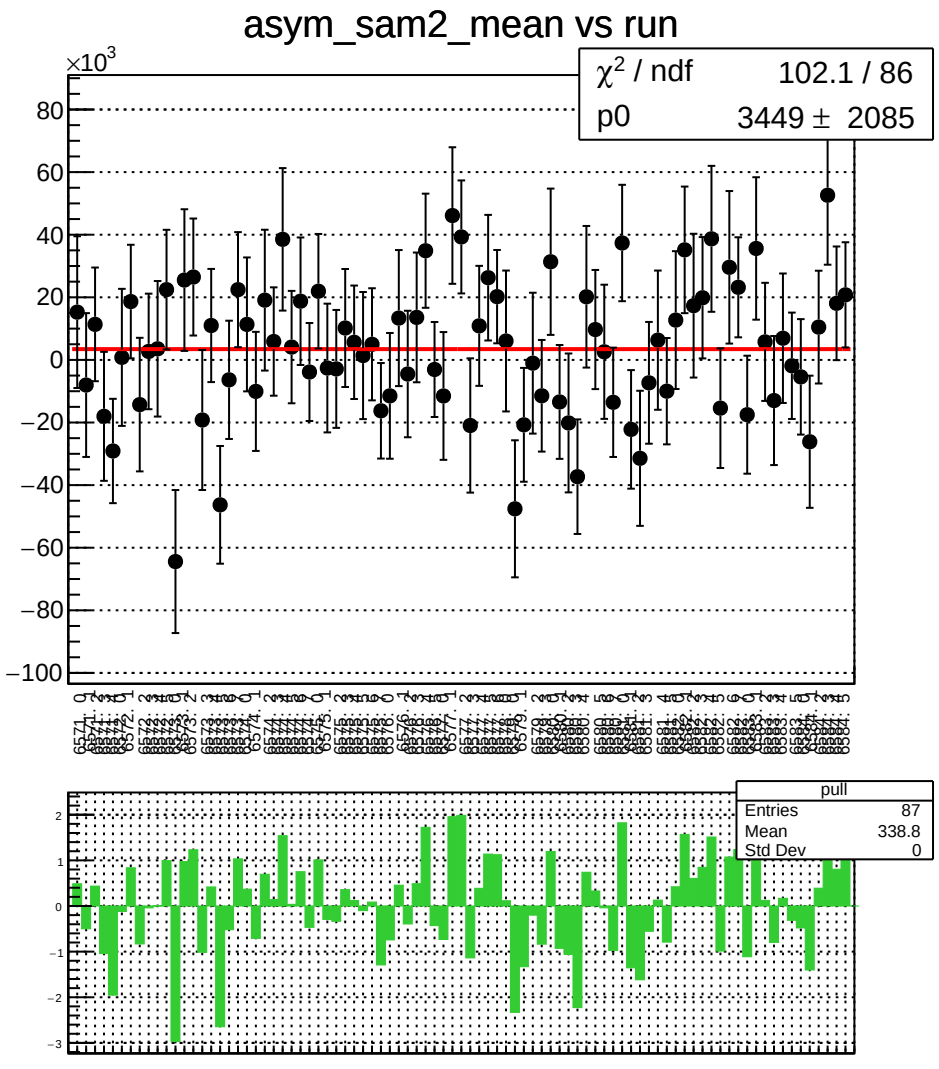

pull1D
Entries 87
Mean −0.01123
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

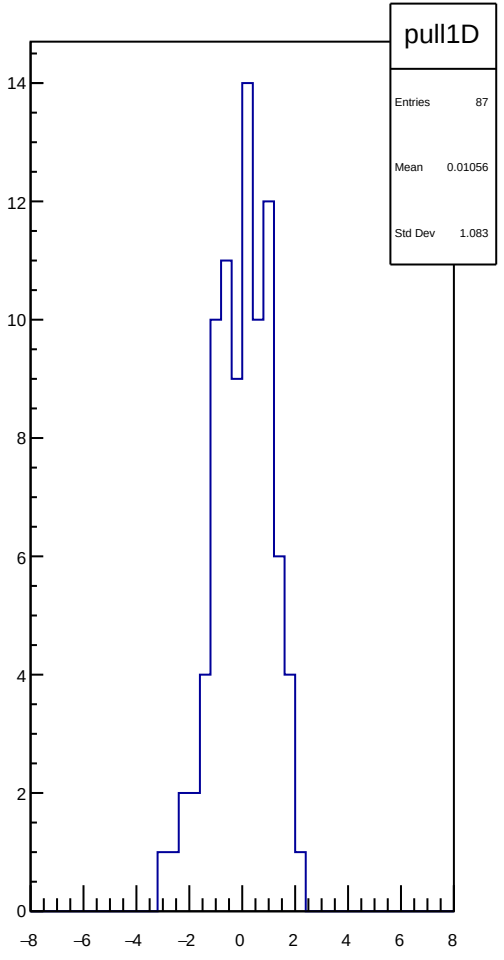

eigen_dit_asym_sam2_rms vs run
χ² / ndf 2878 / 86
p0 294.8 ± 0.2272
340
330
320
310
300
290
280
270

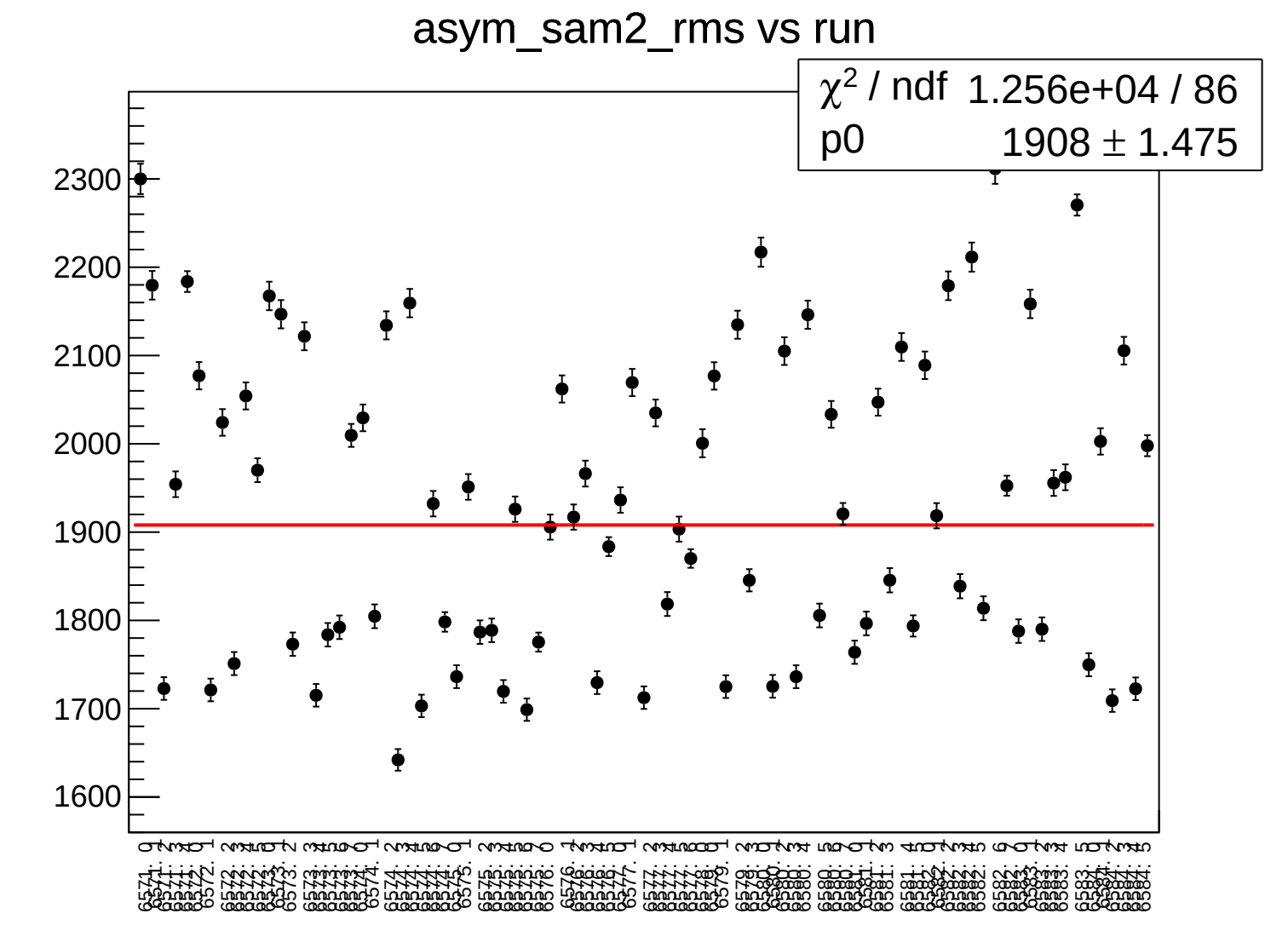

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 100.6 / 86
p0 −3949 ± 2080
pull
Entries 87
Mean 291.7
Std Dev 0

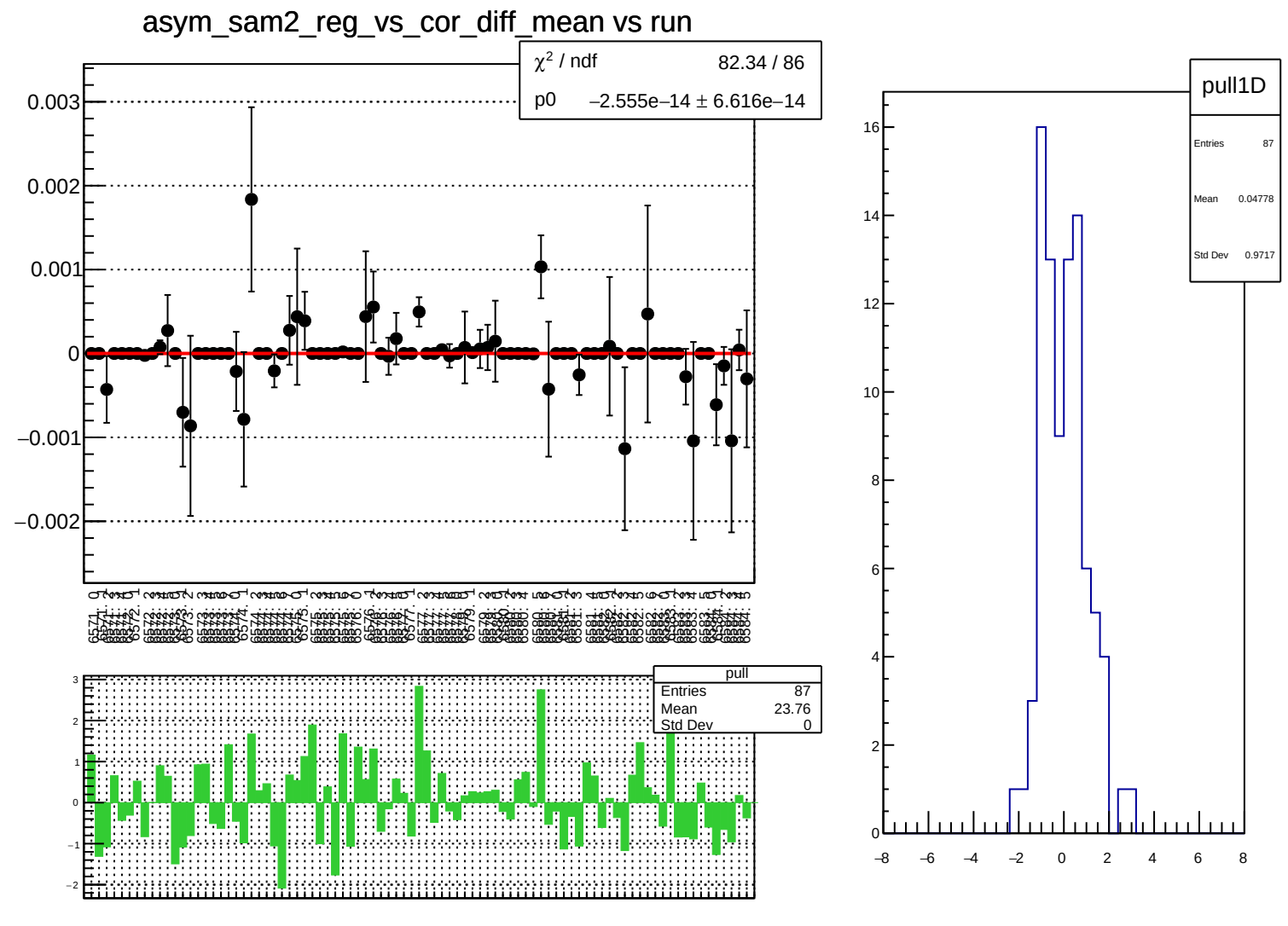

pull1D
Entries 87
Mean −0.01349
Std Dev 1.075

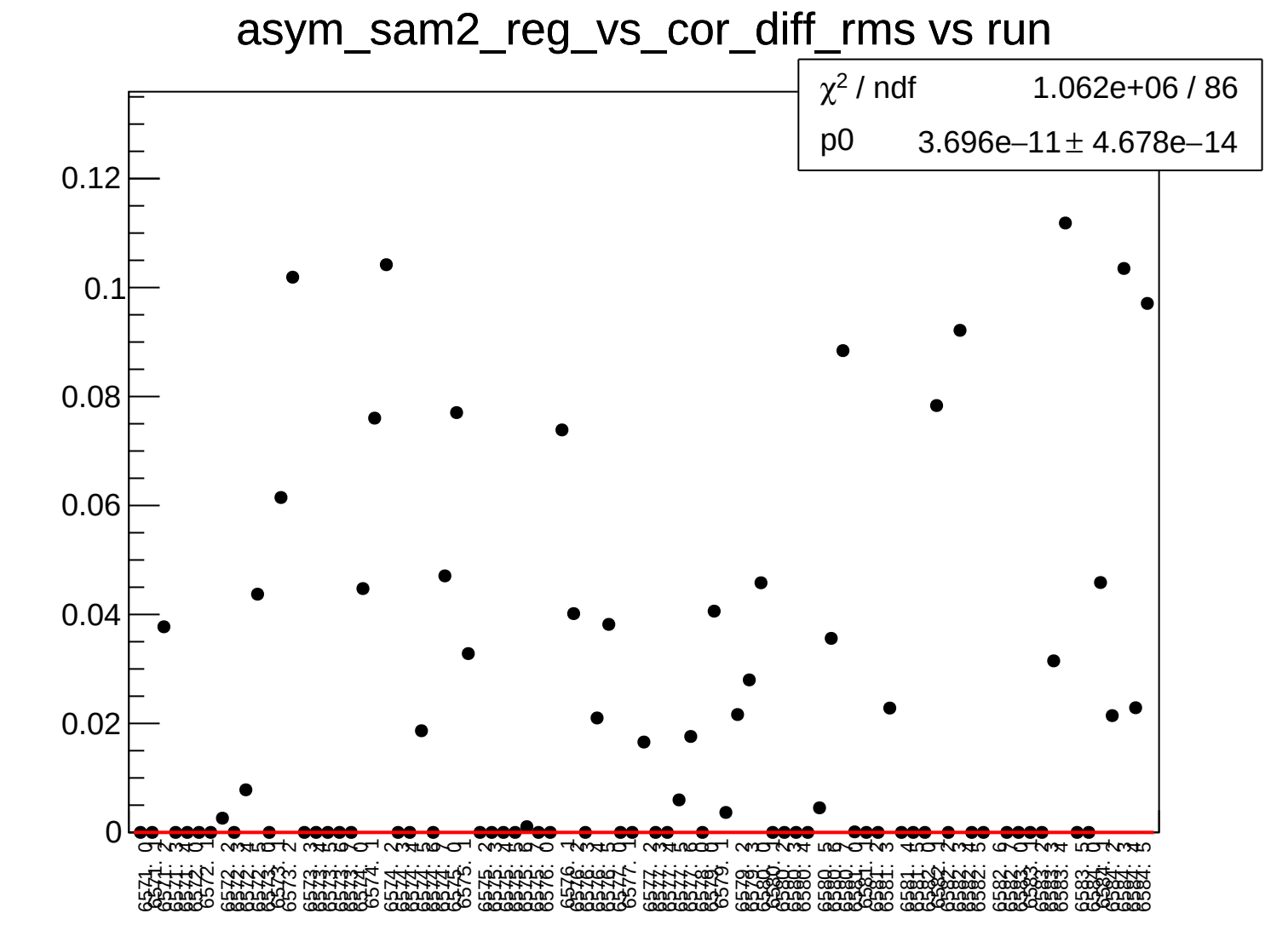

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 1.016e+04 / 86
p0 1904 ± 1.471
2300
2200
2100
2000
1900
1800
1700
1600

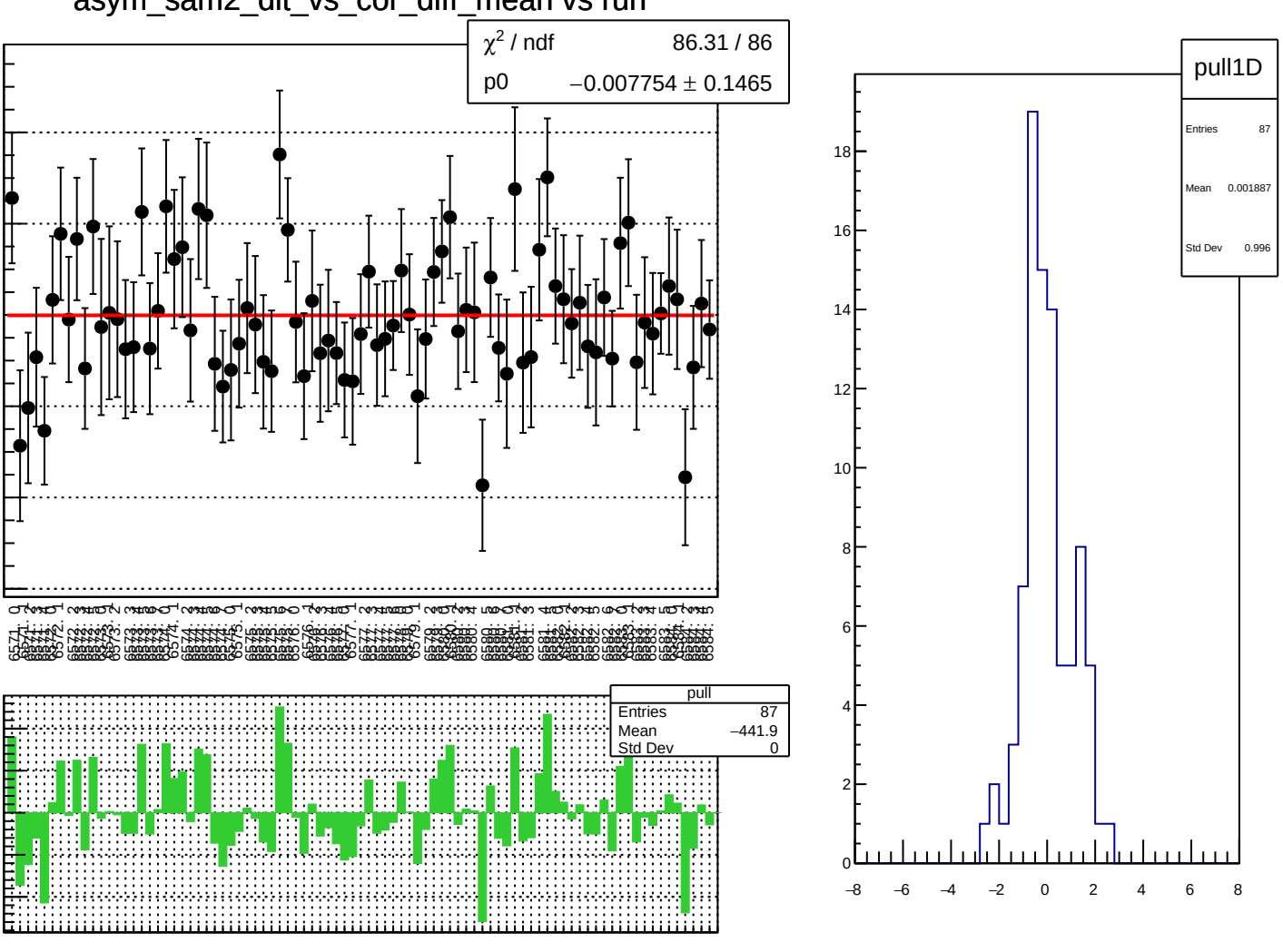

asym_sam2_mean vs run
χ² / ndf 102.1 / 86
p0 3449 ± 2085
×10³
pull
Entries 87
Mean 338.8
Std Dev 0

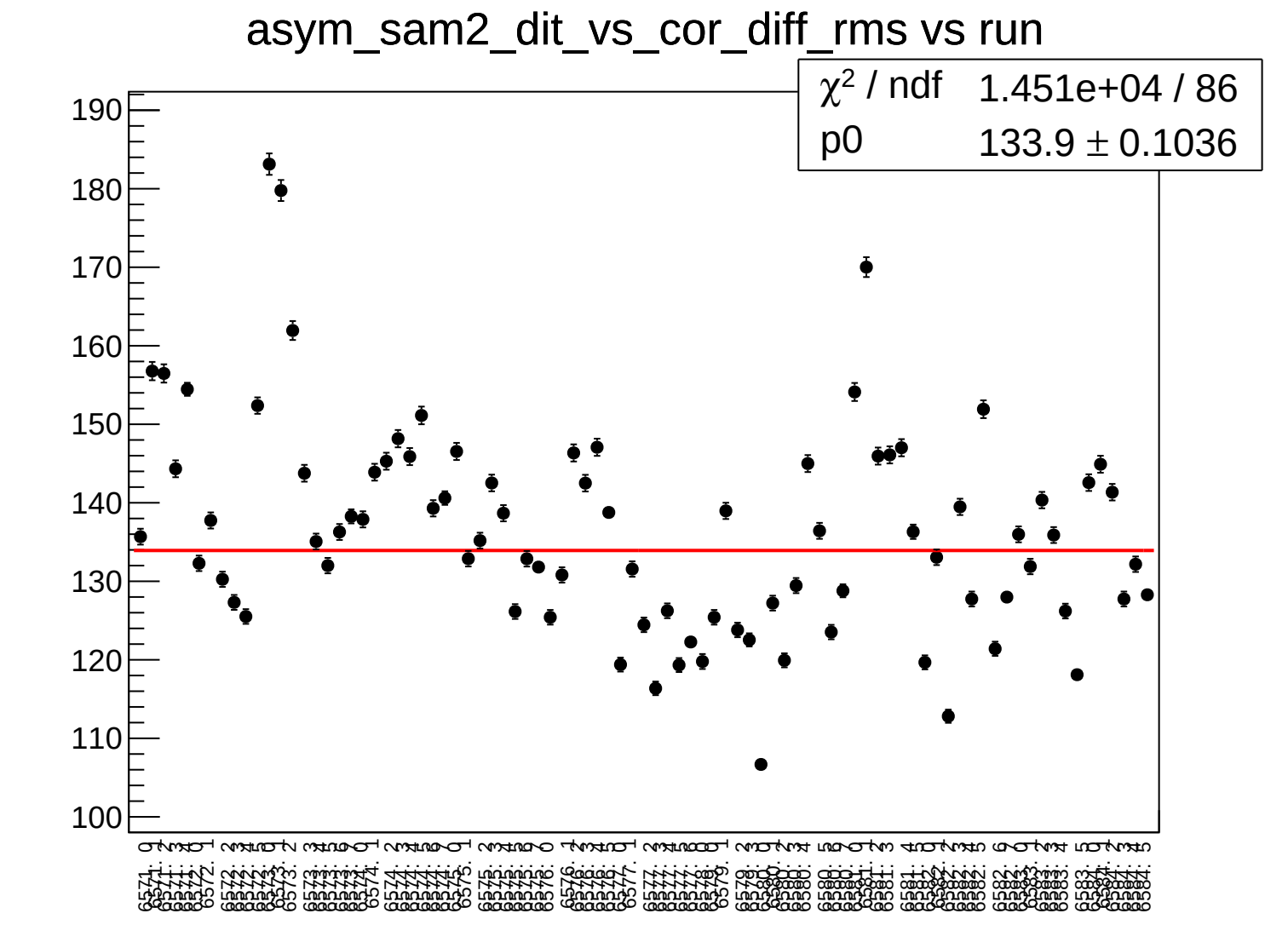

pull1D
Entries 87
Mean 0.01056
Std Dev 1.083

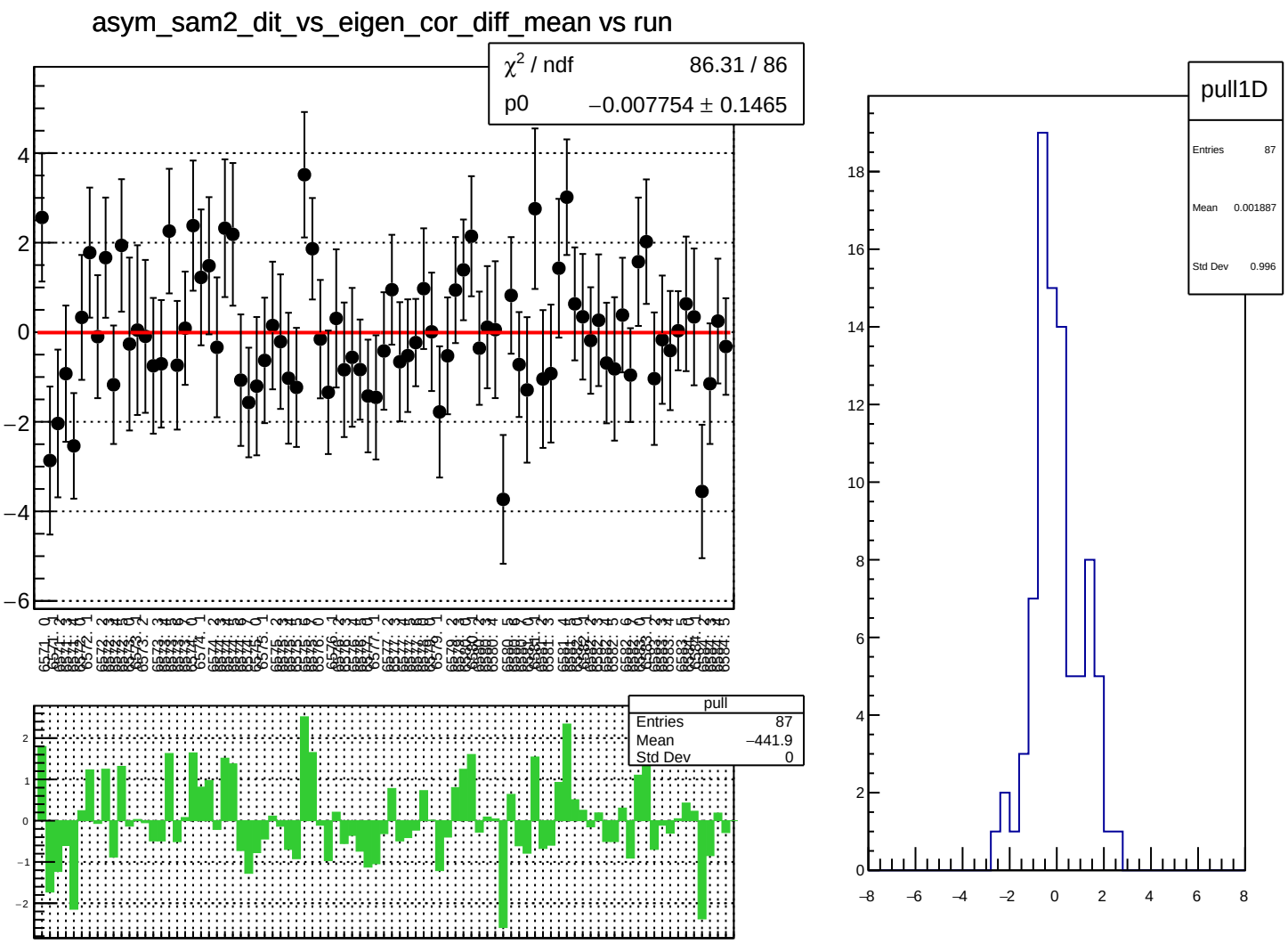

asym_sam2_rms vs run
χ^2 / ndf 1.256e+04 / 86
p0 1908 ± 1.475
2300
2200
2100
2000
1900
1800
1700
1600

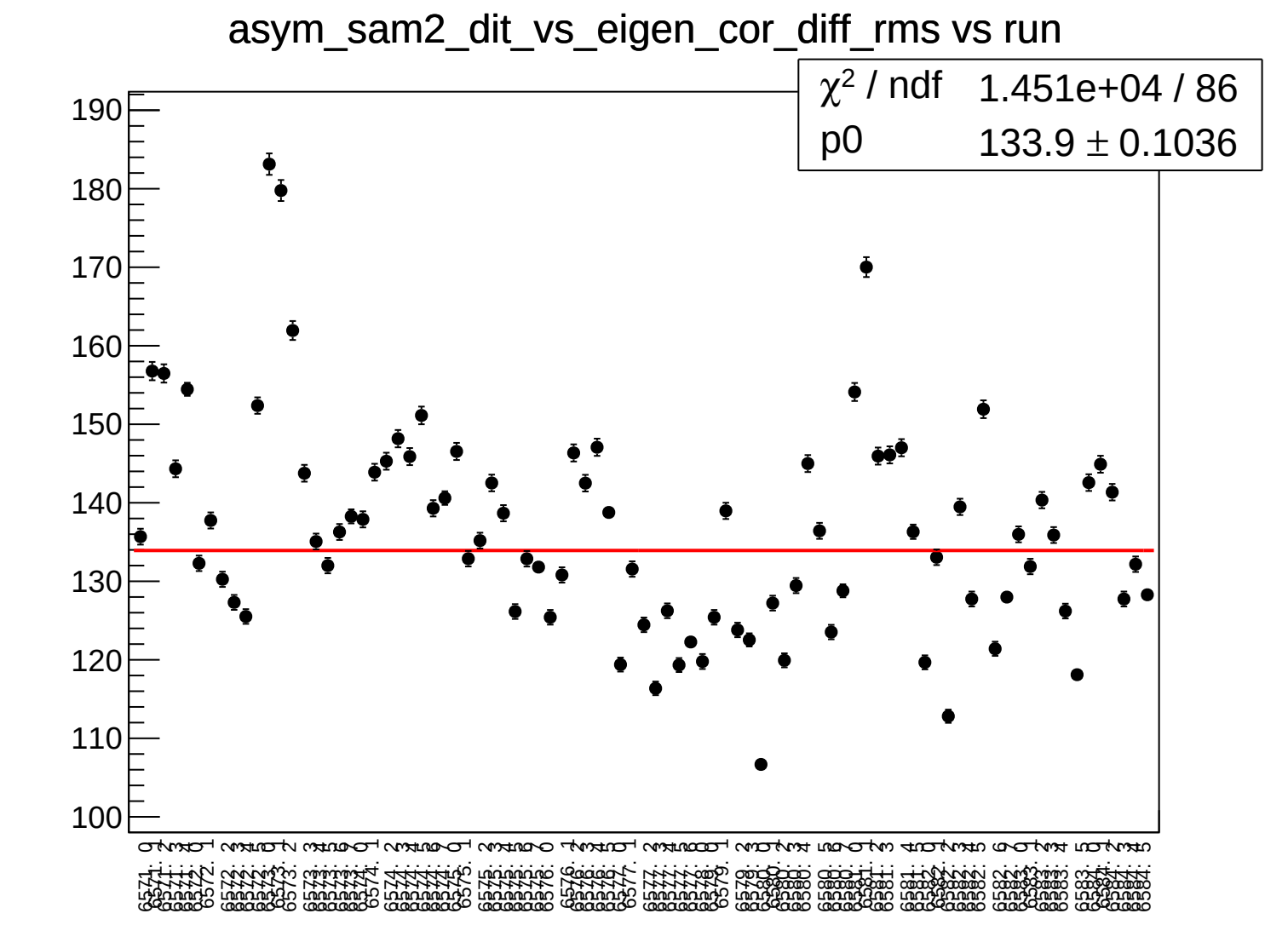

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 82.34 / 86
p0 −2.555e−14 ± 6.616e−14
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 87
Mean 23.76
Std Dev 0
pull1D
Entries 87
Mean 0.04778
Std Dev 0.9717

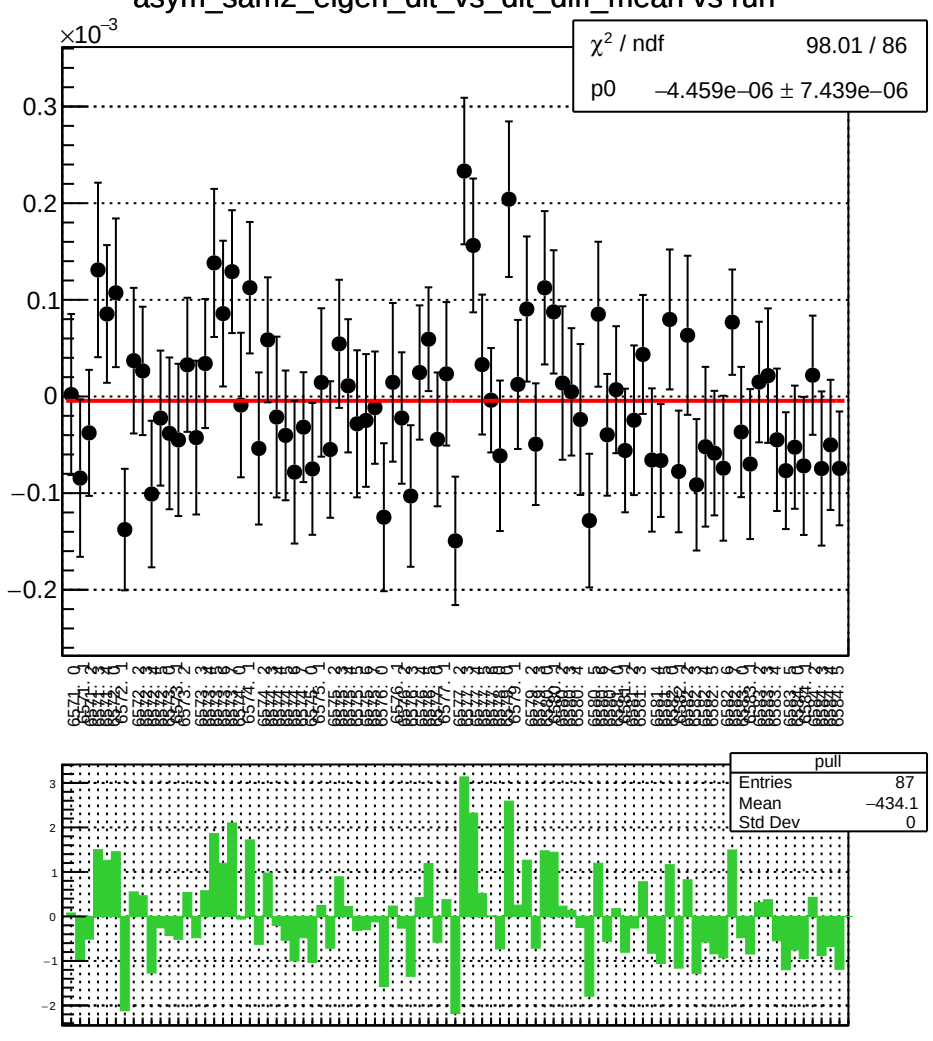

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 86
p0 3.696e−11 ± 4.678e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

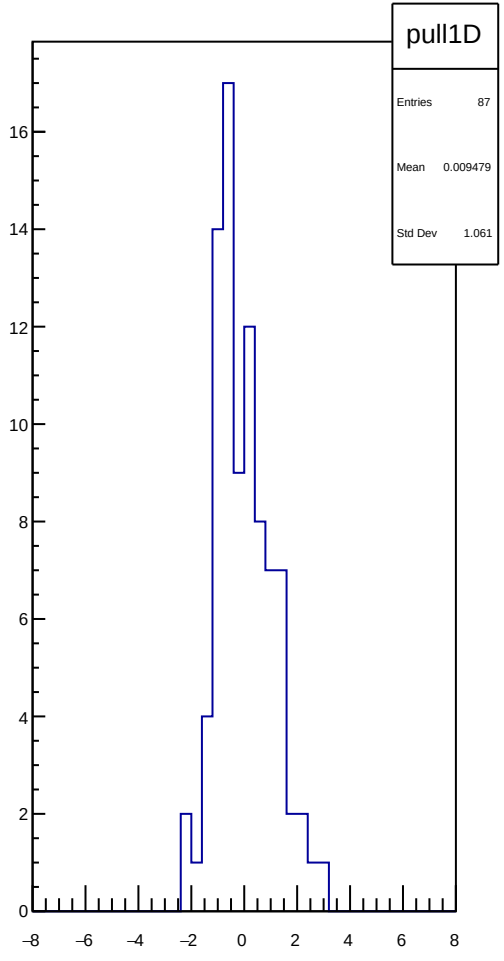

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 86.31 / 86
p0 −0.007754 ± 0.1465
pull
Entries 87
Mean −441.9
Std Dev 0
pull1D
Entries 87
Mean 0.001887
Std Dev 0.996

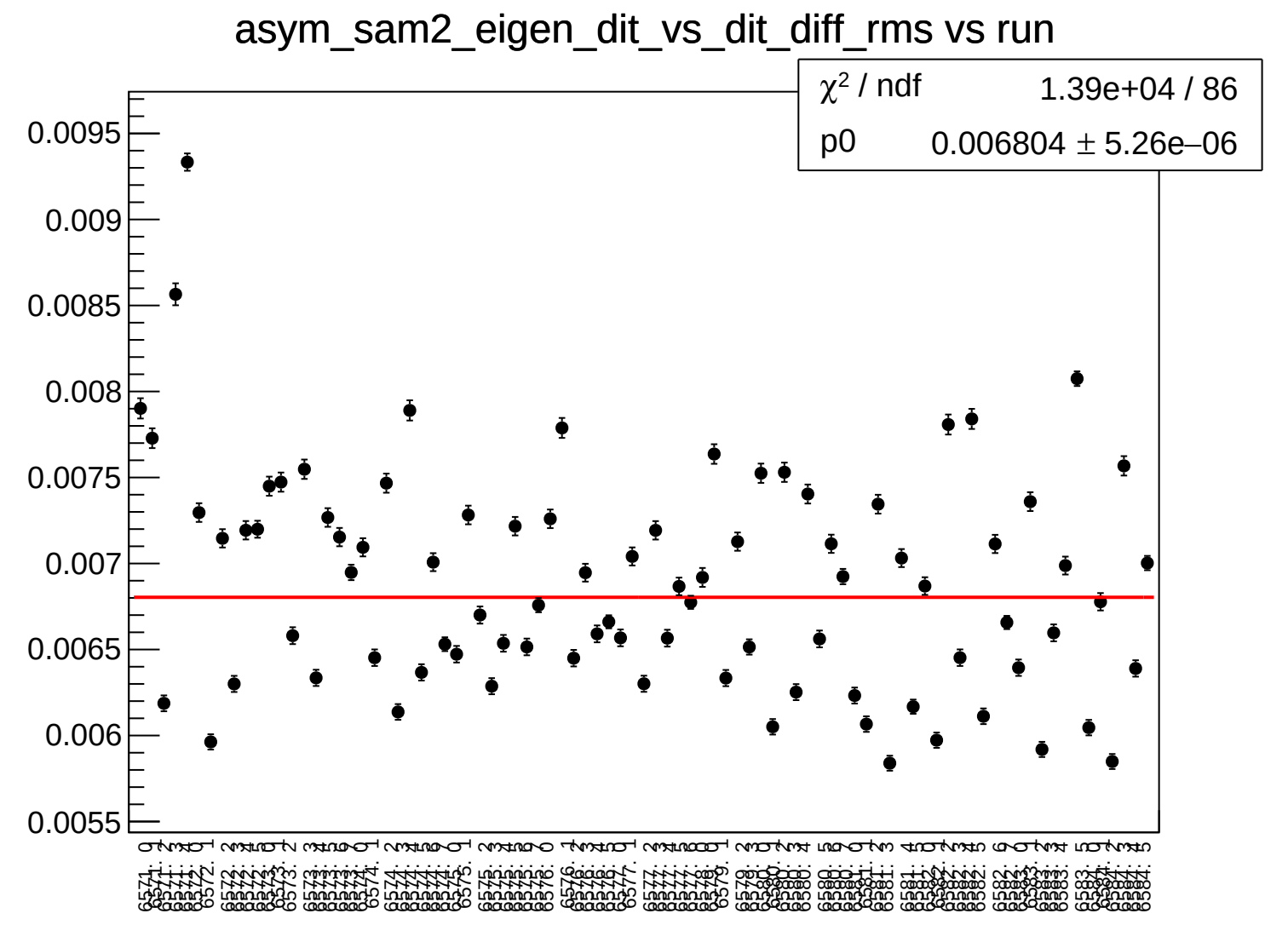

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 86
p0 133.9 ± 0.1036
190
180
170
160
150
140
130
120
110
100

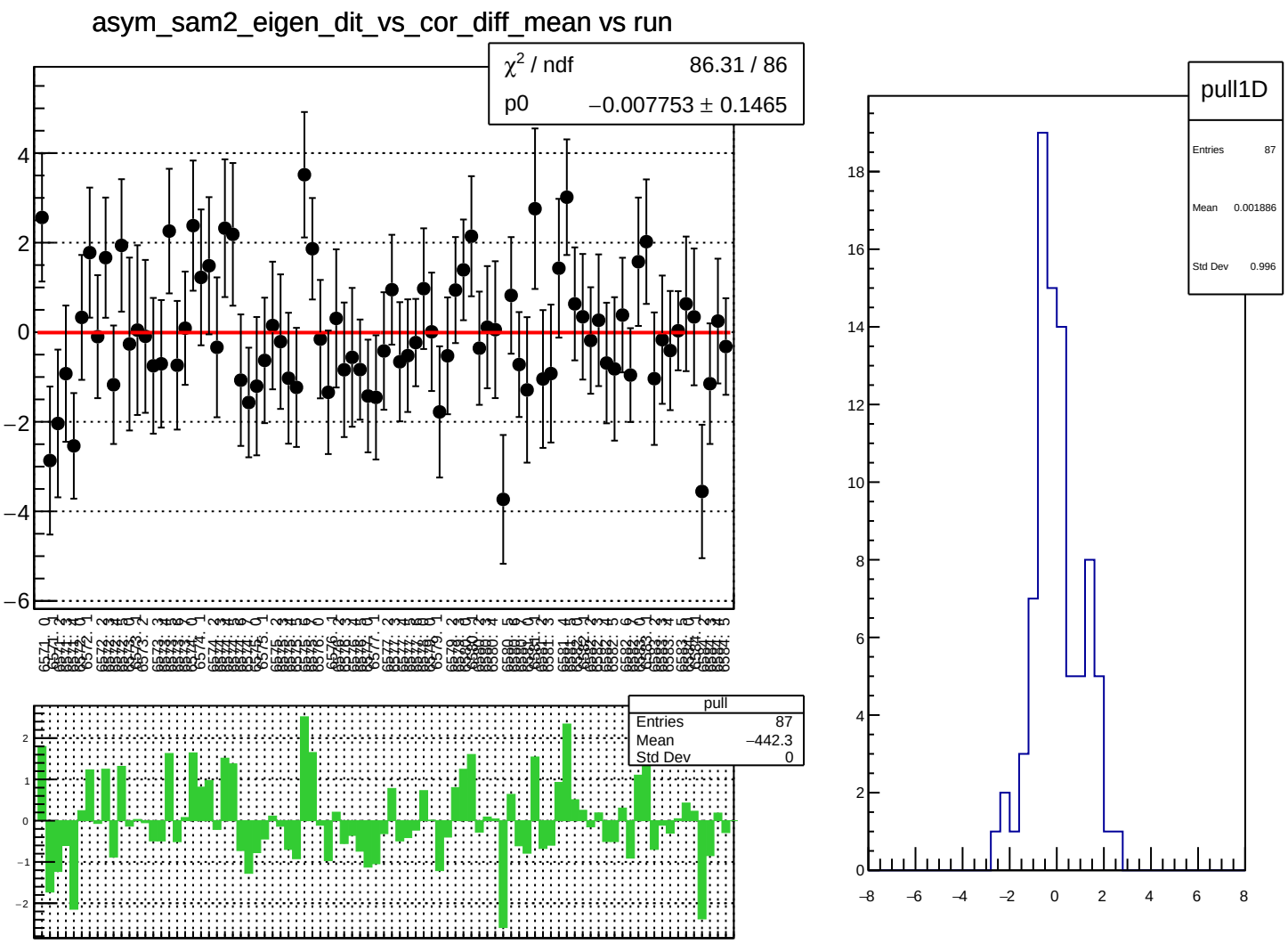

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.31 / 86
p0 −0.007754 ± 0.1465
pull
Entries 87
Mean −441.9
Std Dev 0
pull1D
Entries 87
Mean 0.001887
Std Dev 0.996

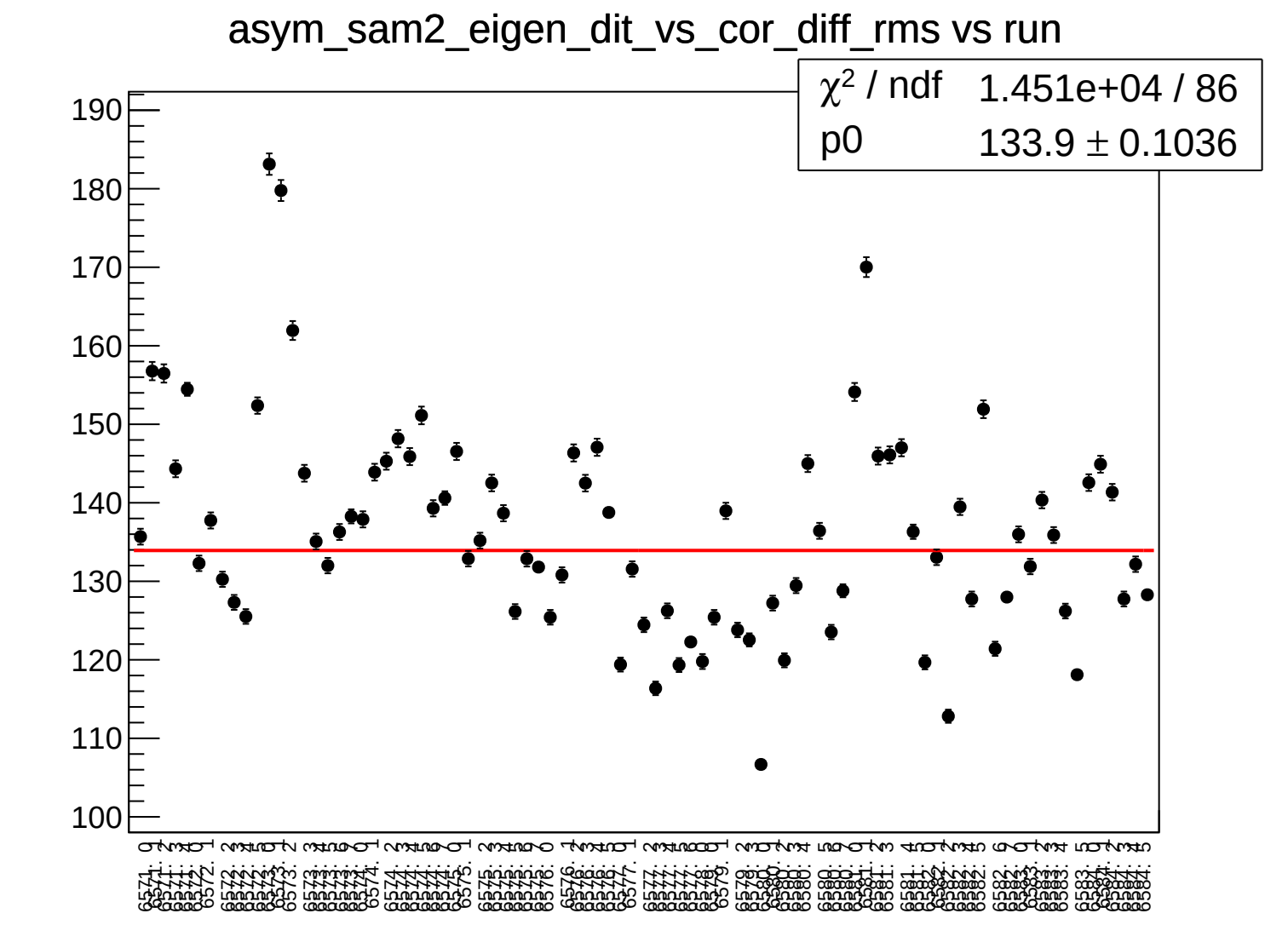

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 86
p0 133.9 ± 0.1036
190
180
170
160
150
140
130
120
110
100

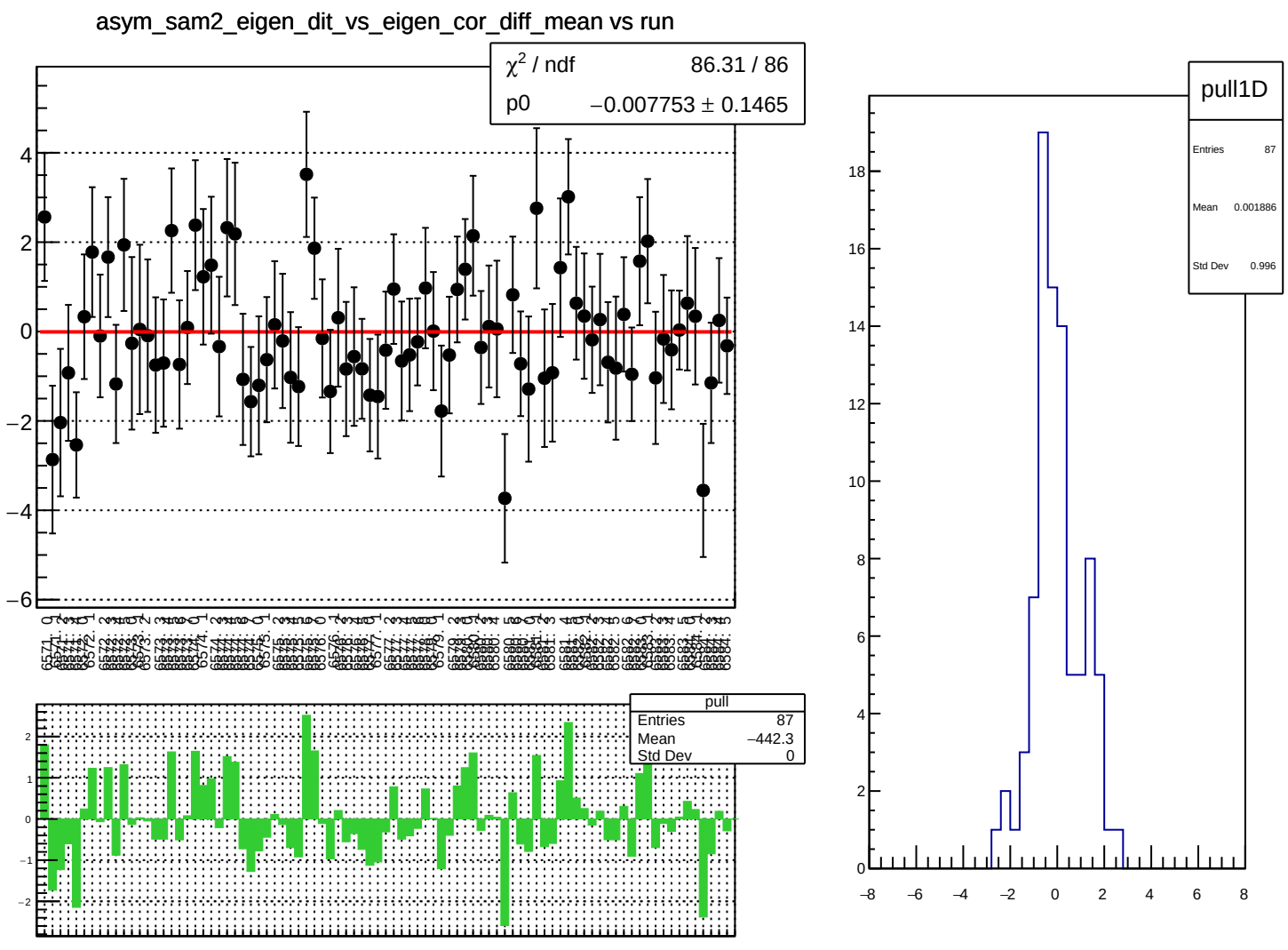

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 98.01 / 86
p0 −4.459e−06 ± 7.439e−06
pull
Entries 87
Mean −434.1
Std Dev 0

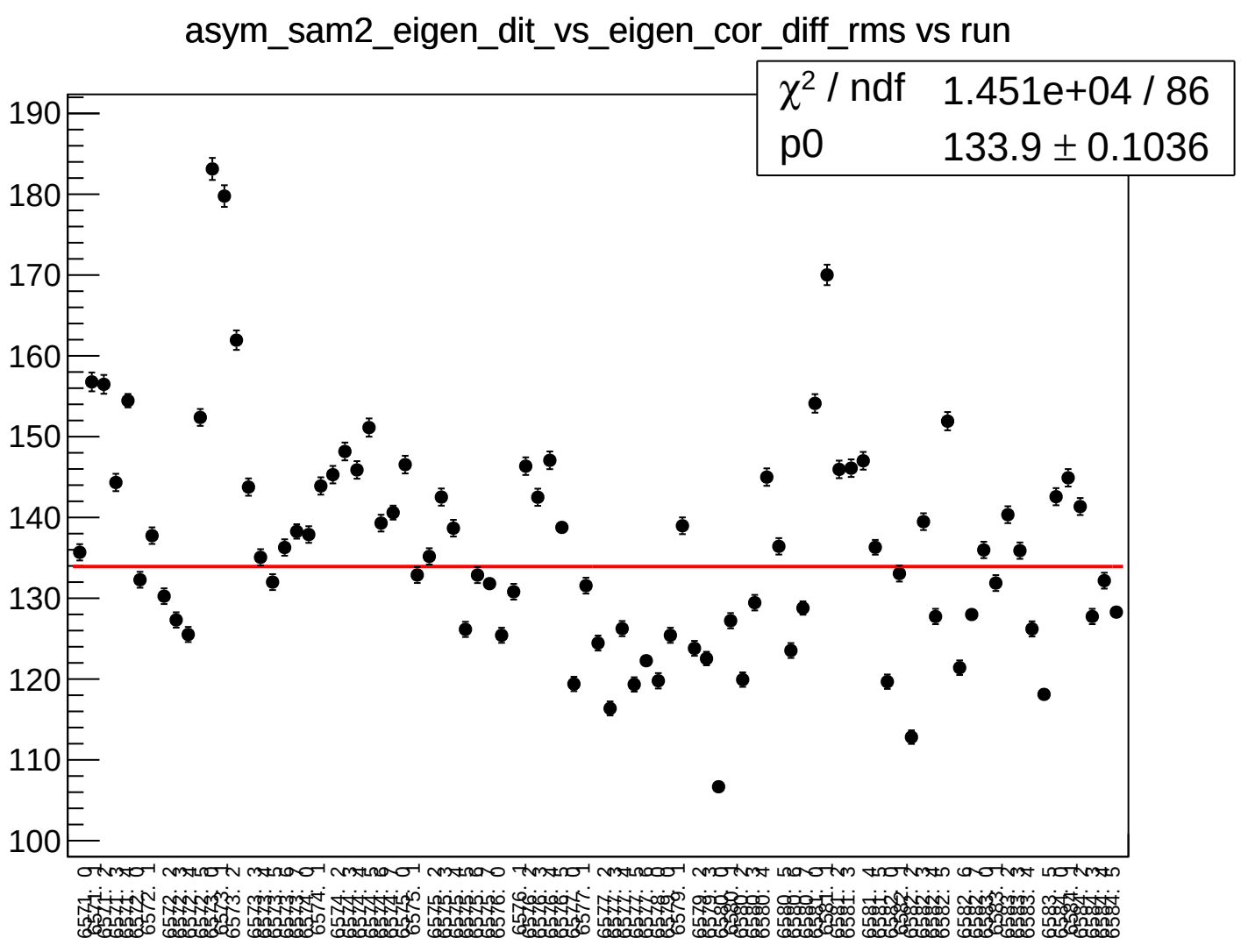

pull1D
Entries 87
Mean 0.009479
Std Dev 1.061

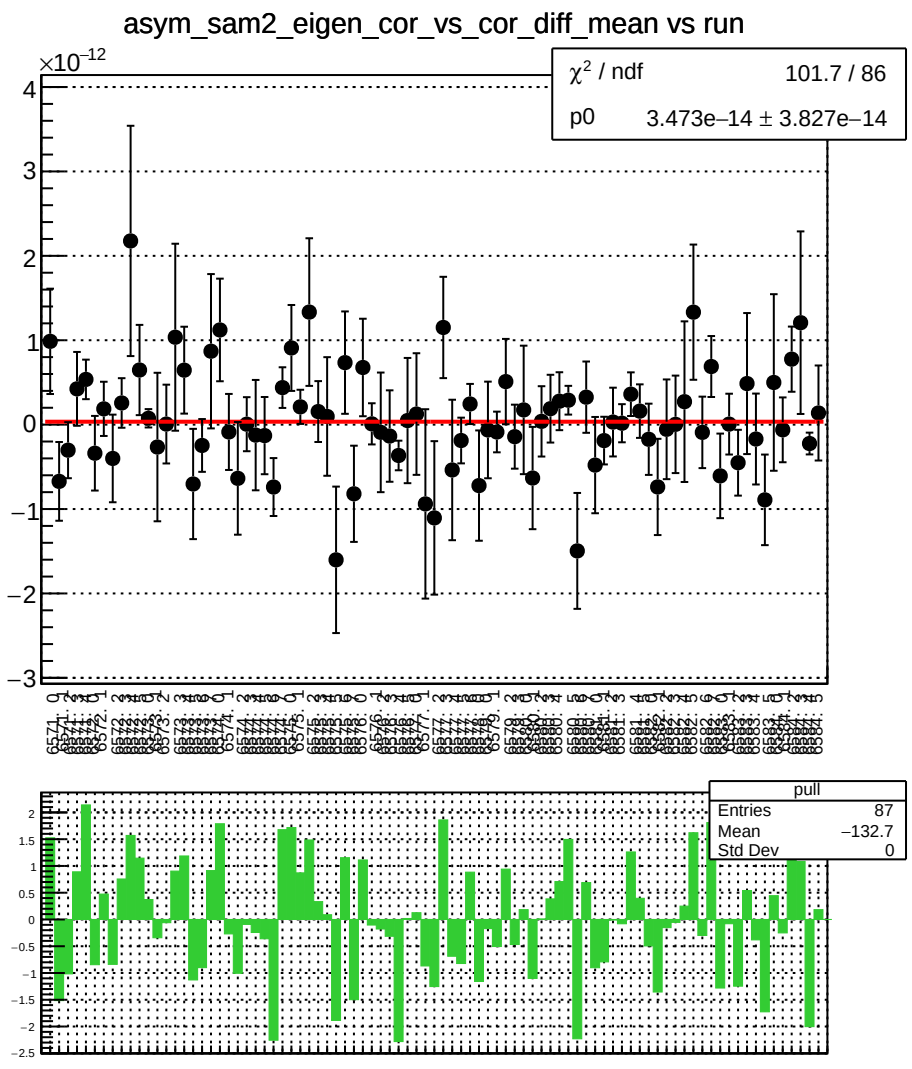

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.39e+04 / 86
p0 0.006804 ± 5.26e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

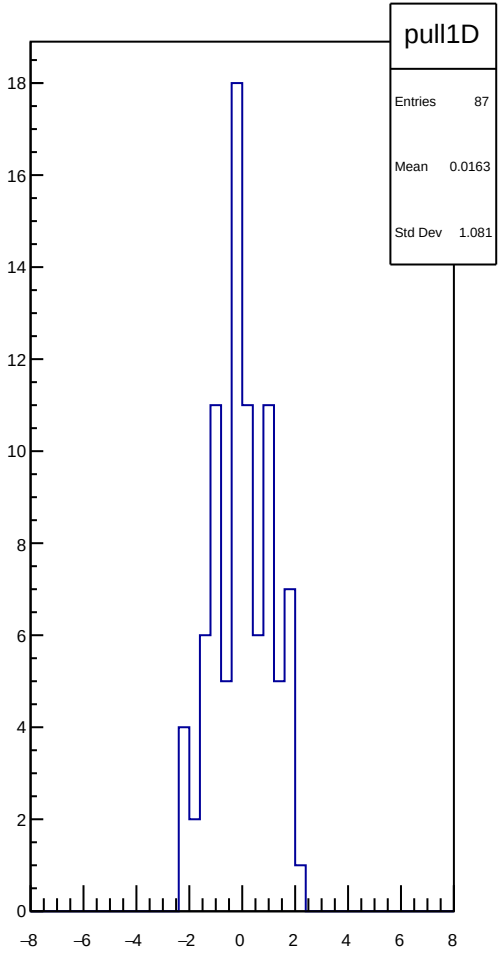

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.31 / 86
p0 −0.007753 ± 0.1465
pull
Entries 87
Mean −442.3
Std Dev 0
pull1D
Entries 87
Mean 0.001886
Std Dev 0.996

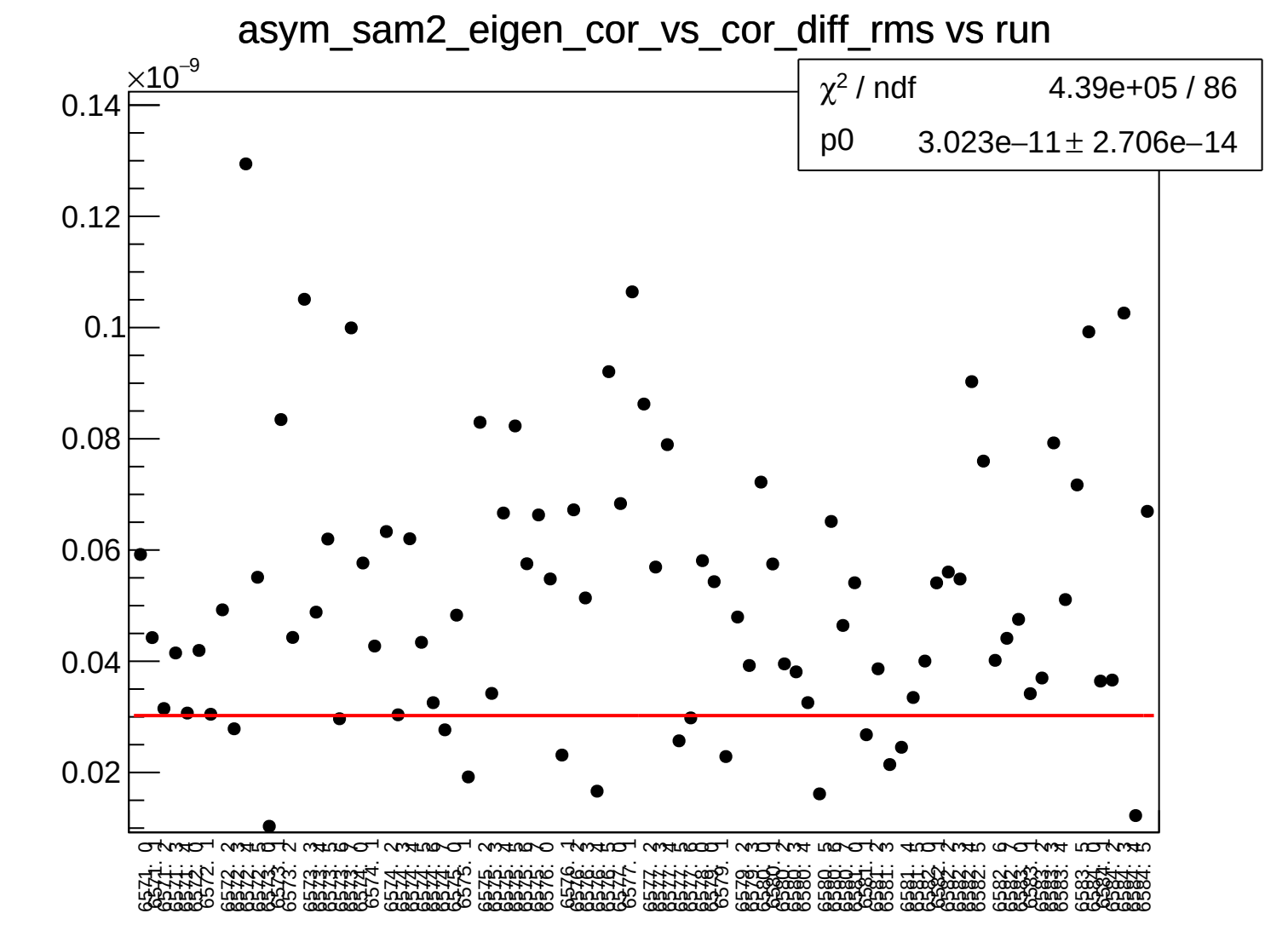

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 86
p0 133.9 ± 0.1036
190
180
170
160
150
140
130
120
110
100

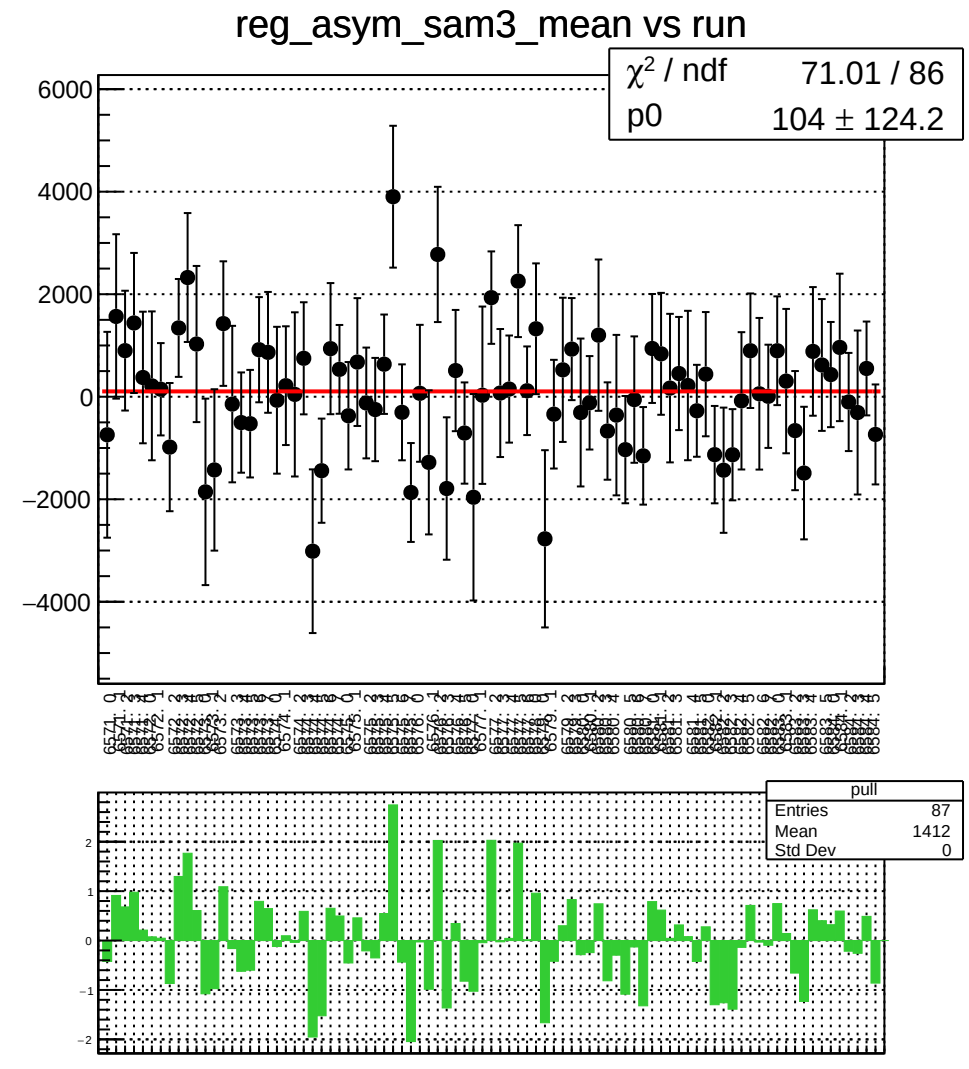

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.31 / 86
p0 −0.007753 ± 0.1465
pull
Entries 87
Mean −442.3
Std Dev 0
pull1D
Entries 87
Mean 0.001886
Std Dev 0.996

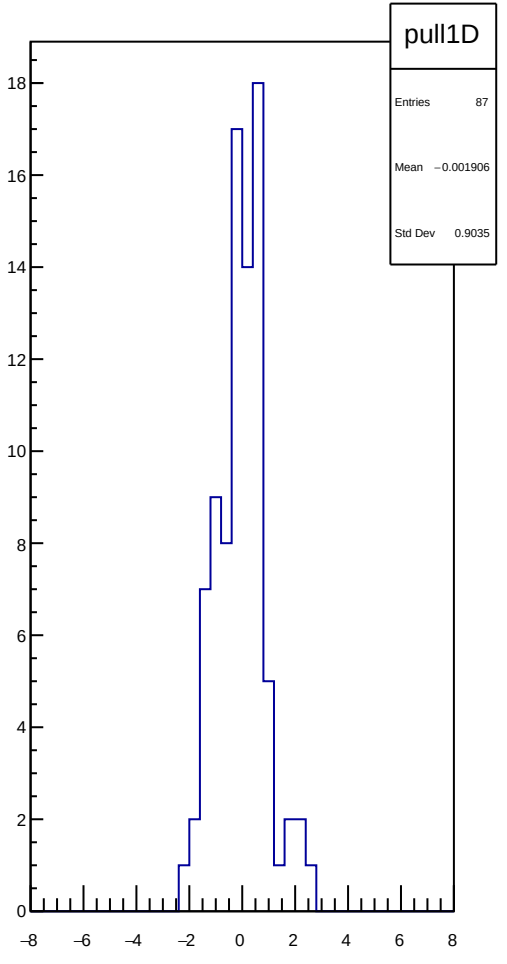

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 86
p0 133.9 ± 0.1036
190
180
170
160
150
140
130
120
110
100

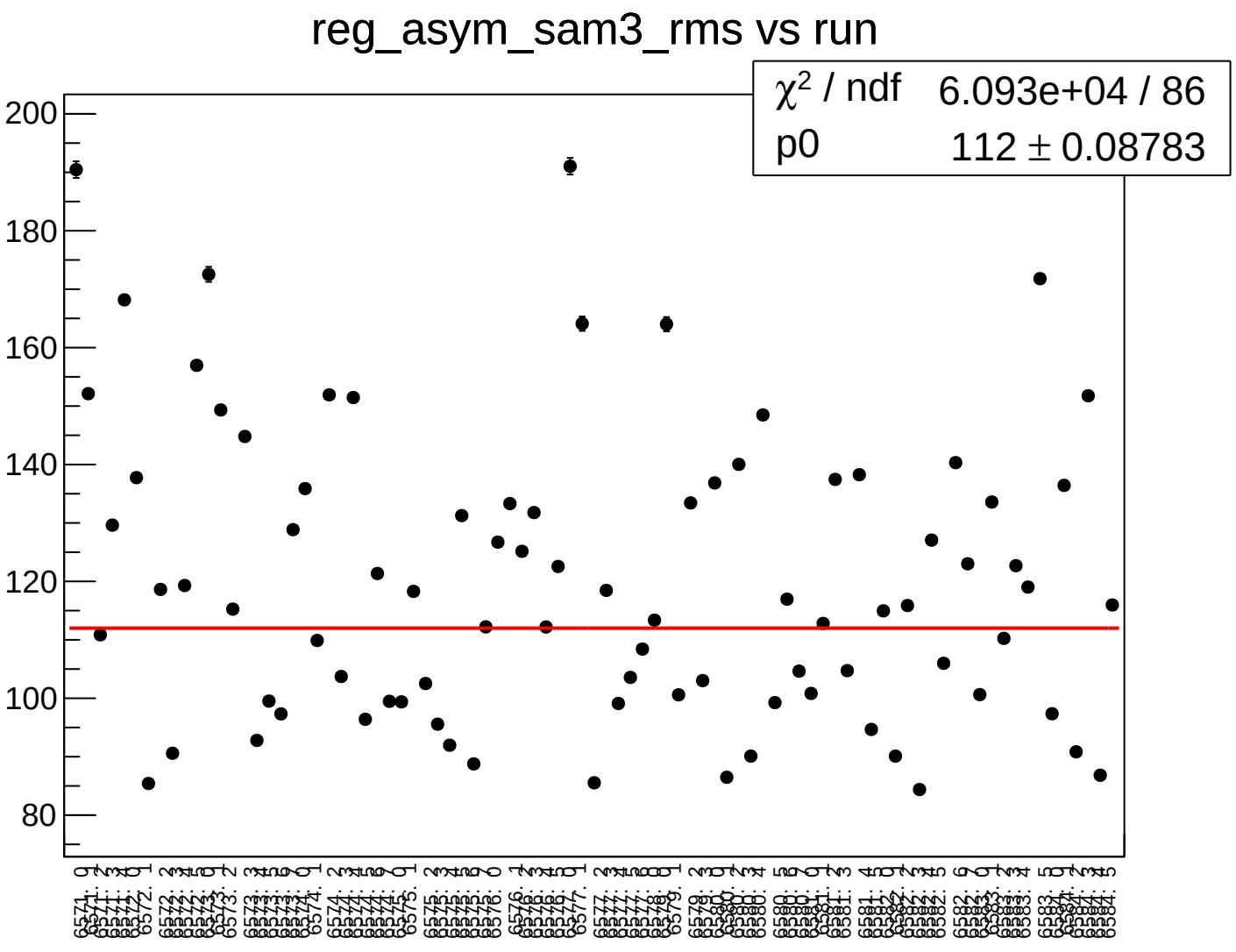

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.7 / 86
p0 3.473e−14 ± 3.827e−14
pull
Entries 87
Mean −132.7
Std Dev 0

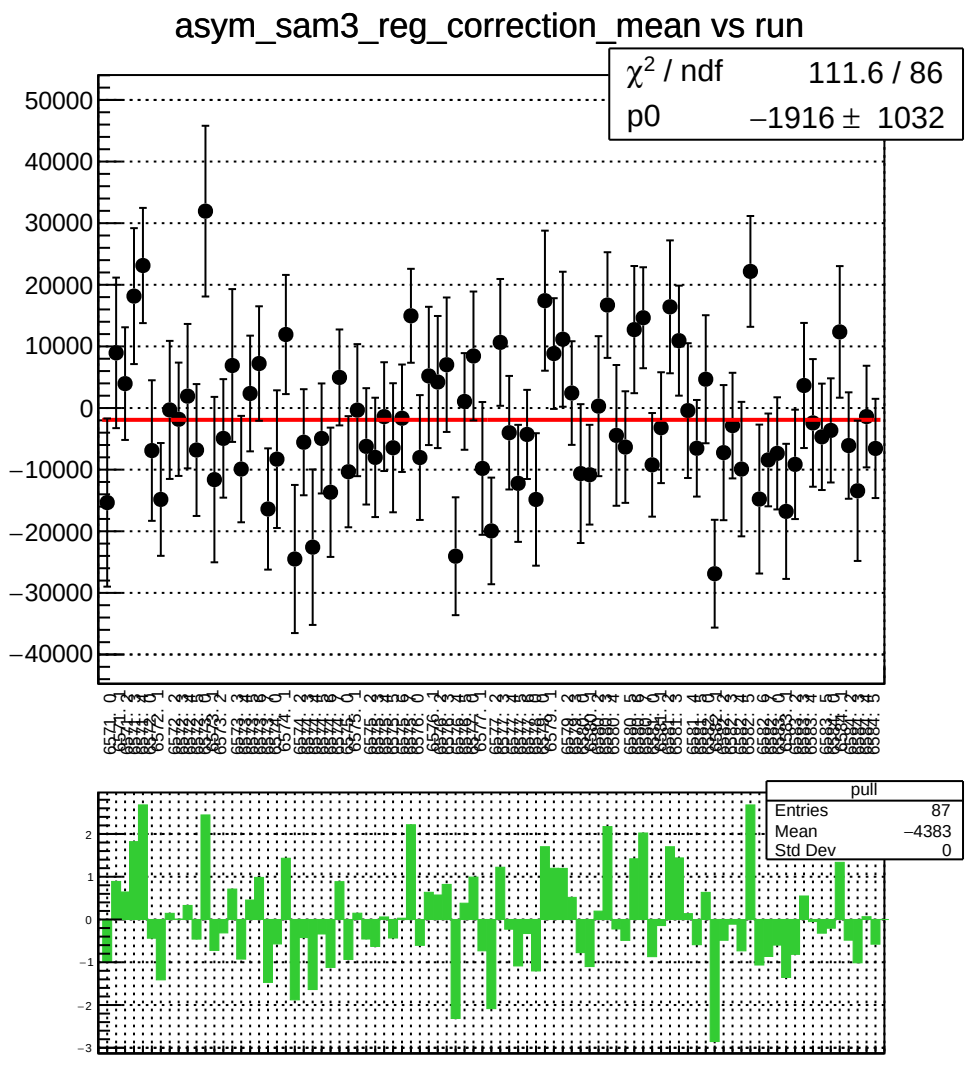

pull1D
Entries 87
Mean 0.0163
Std Dev 1.081

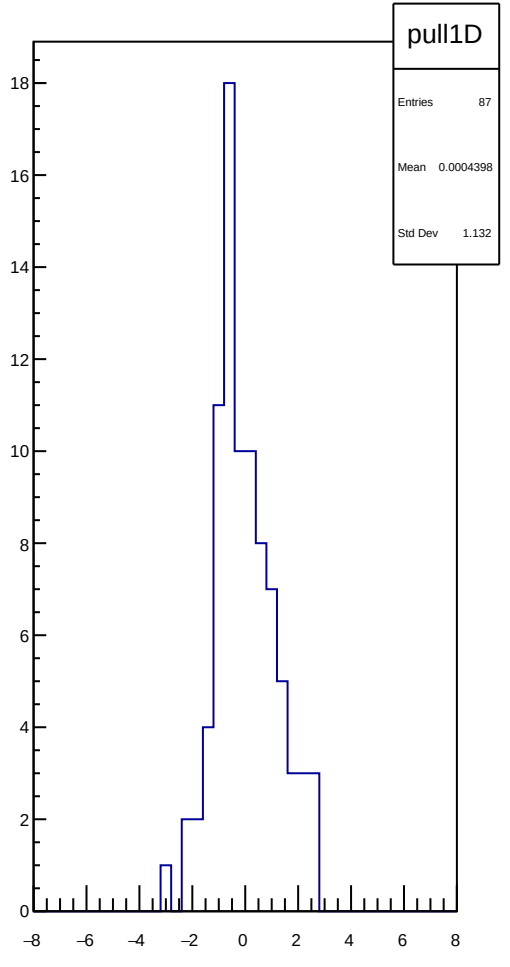

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.39e+05 / 86
p0 3.023e−11 ± 2.706e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02


reg_asym_sam3_mean vs run
χ² / ndf 71.01 / 86
p0 104 ± 124.2
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 1412
Std Dev 0
2
1
0
−1
−2

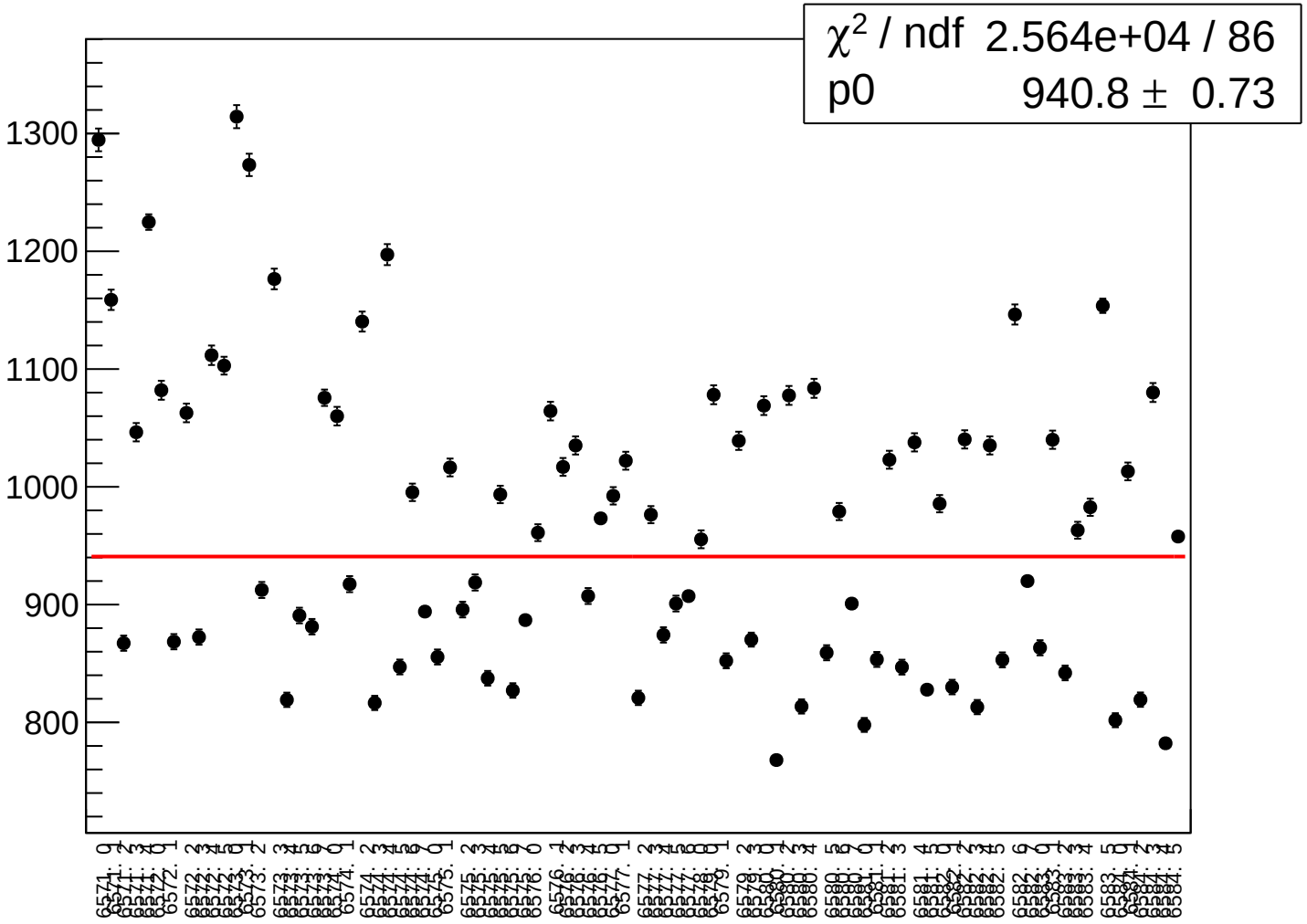

pull1D
Entries 87
Mean −0.001906
Std Dev 0.9035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

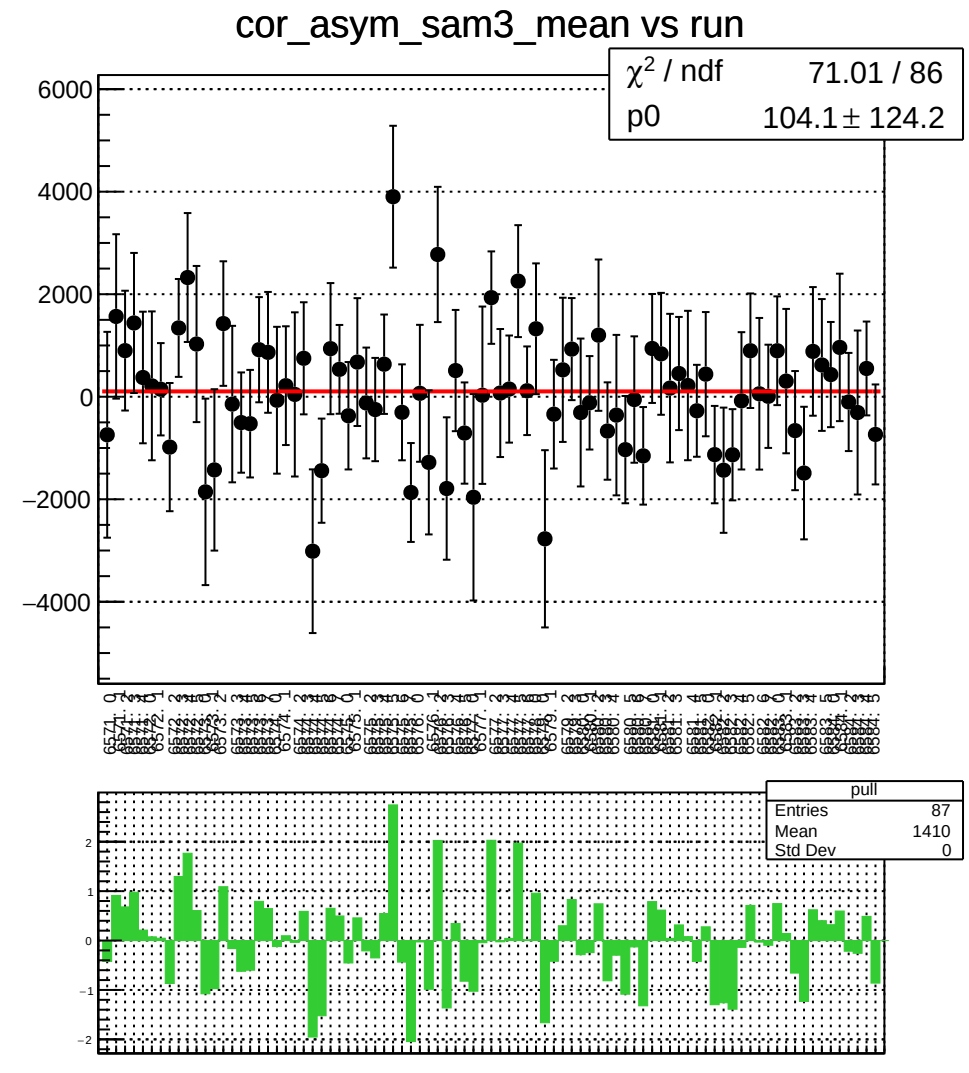

reg_asym_sam3_rms vs run
χ² / ndf 6.093e+04 / 86
p0 112 ± 0.08783
200
180
160
140
120
100
80

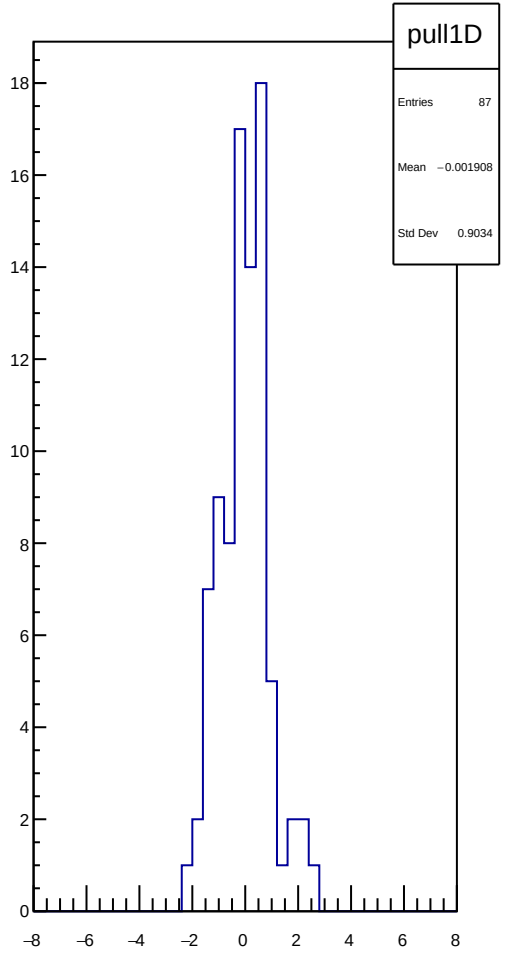

asym_sam3_reg_correction_mean vs run
χ² / ndf 111.6 / 86
p0 −1916 ± 1032
pull
Entries 87
Mean −4383
Std Dev 0

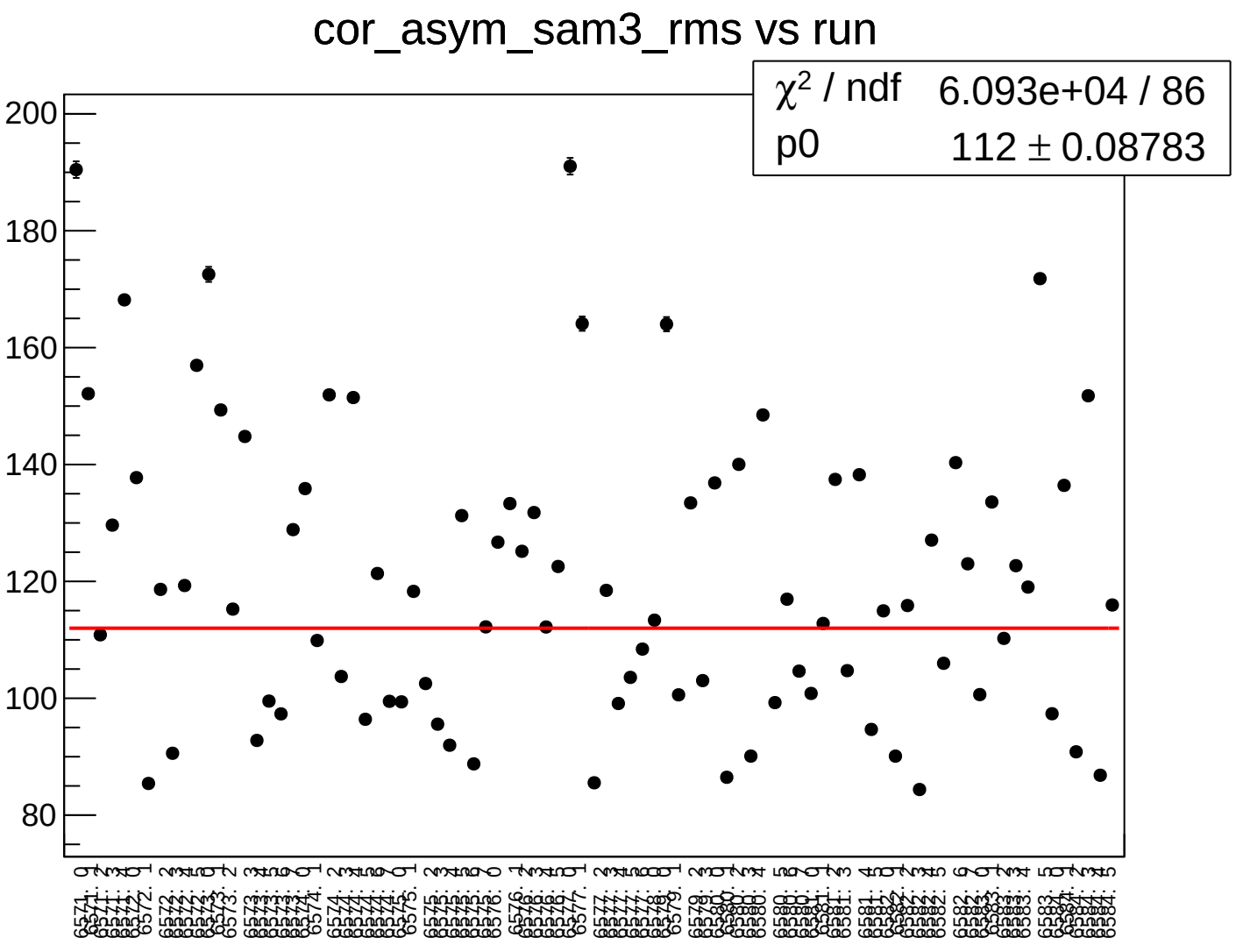

pull1D
Entries 87
Mean 0.0004398
Std Dev 1.132

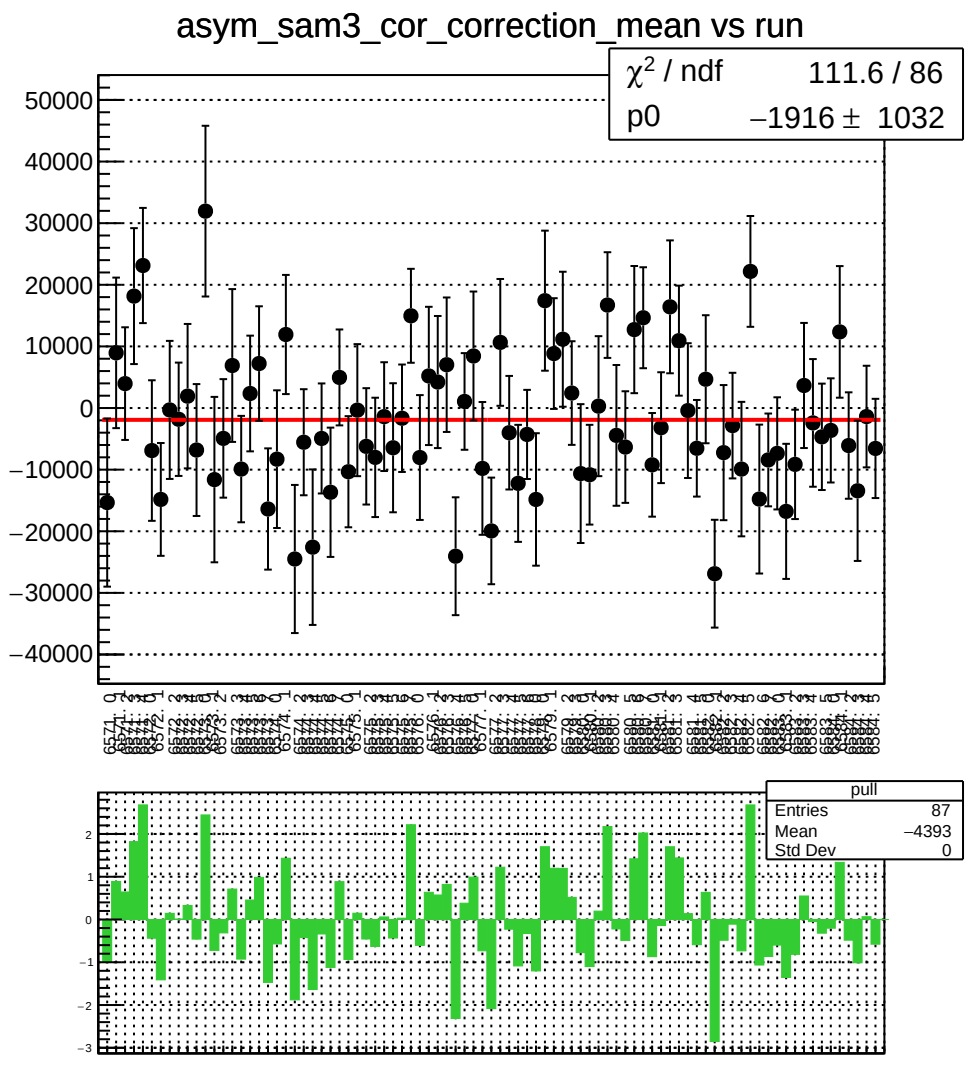
asym_sam3_reg_correction_rms vs run

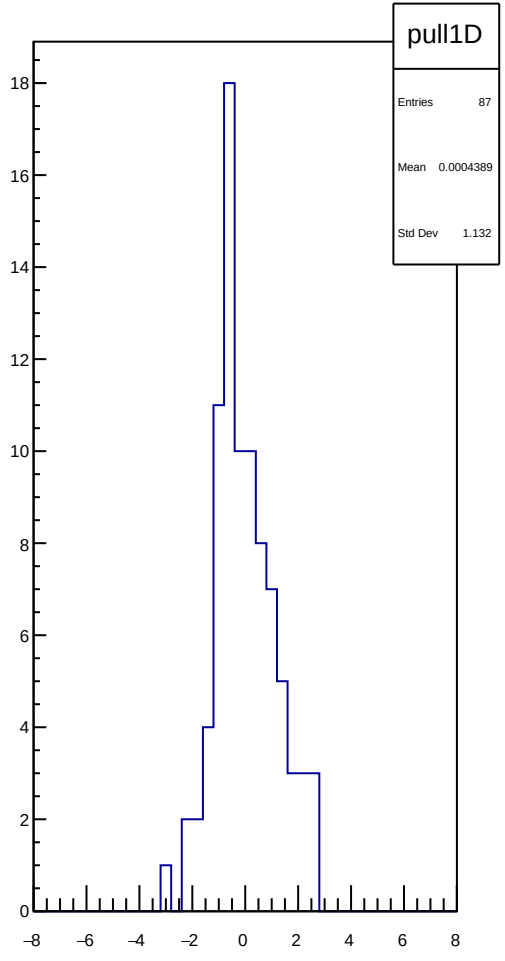


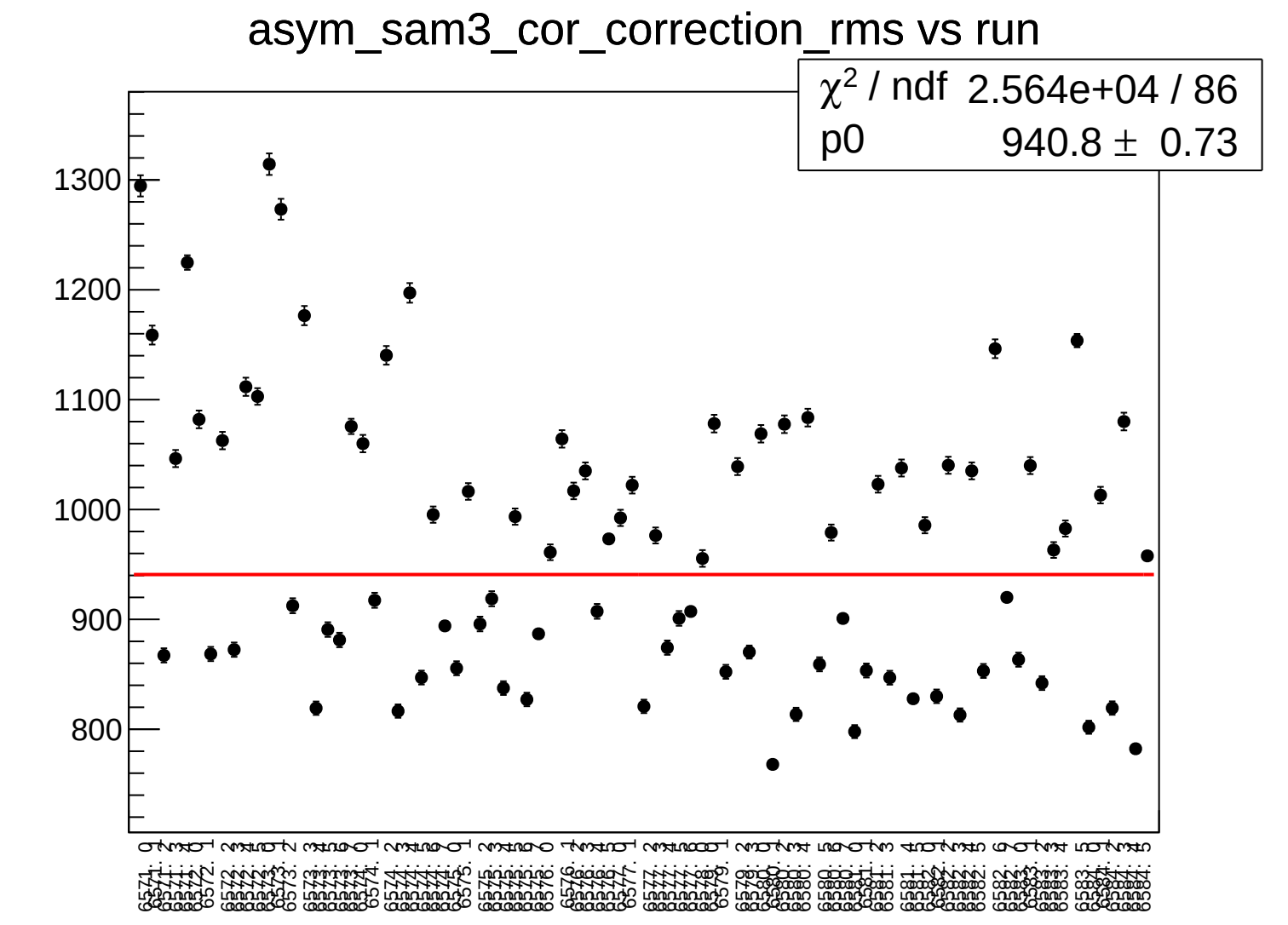

cor_asym_sam3_mean vs run
χ² / ndf 71.01 / 86
p0 104.1 ± 124.2
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 1410
Std Dev 0
2
1
0
−1
−2

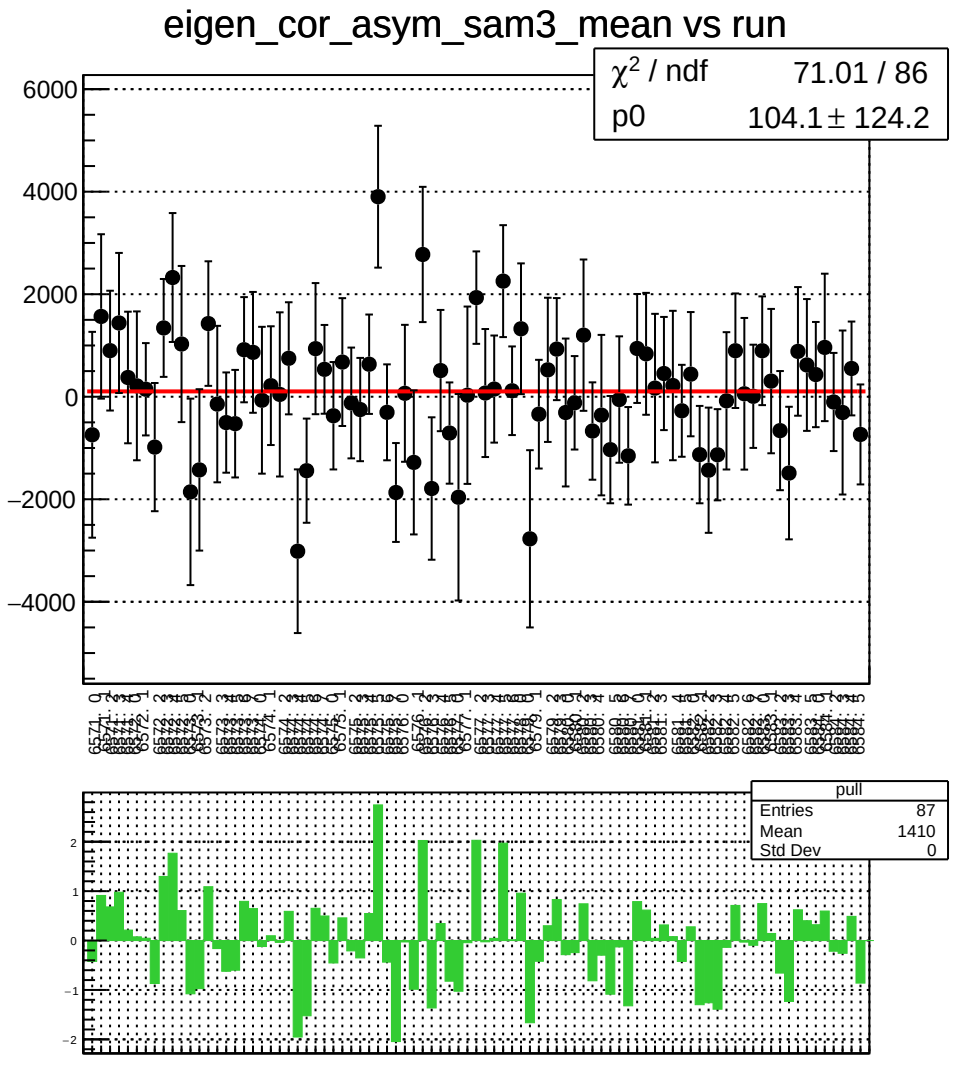

pull1D
Entries 87
Mean −0.001908
Std Dev 0.9034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

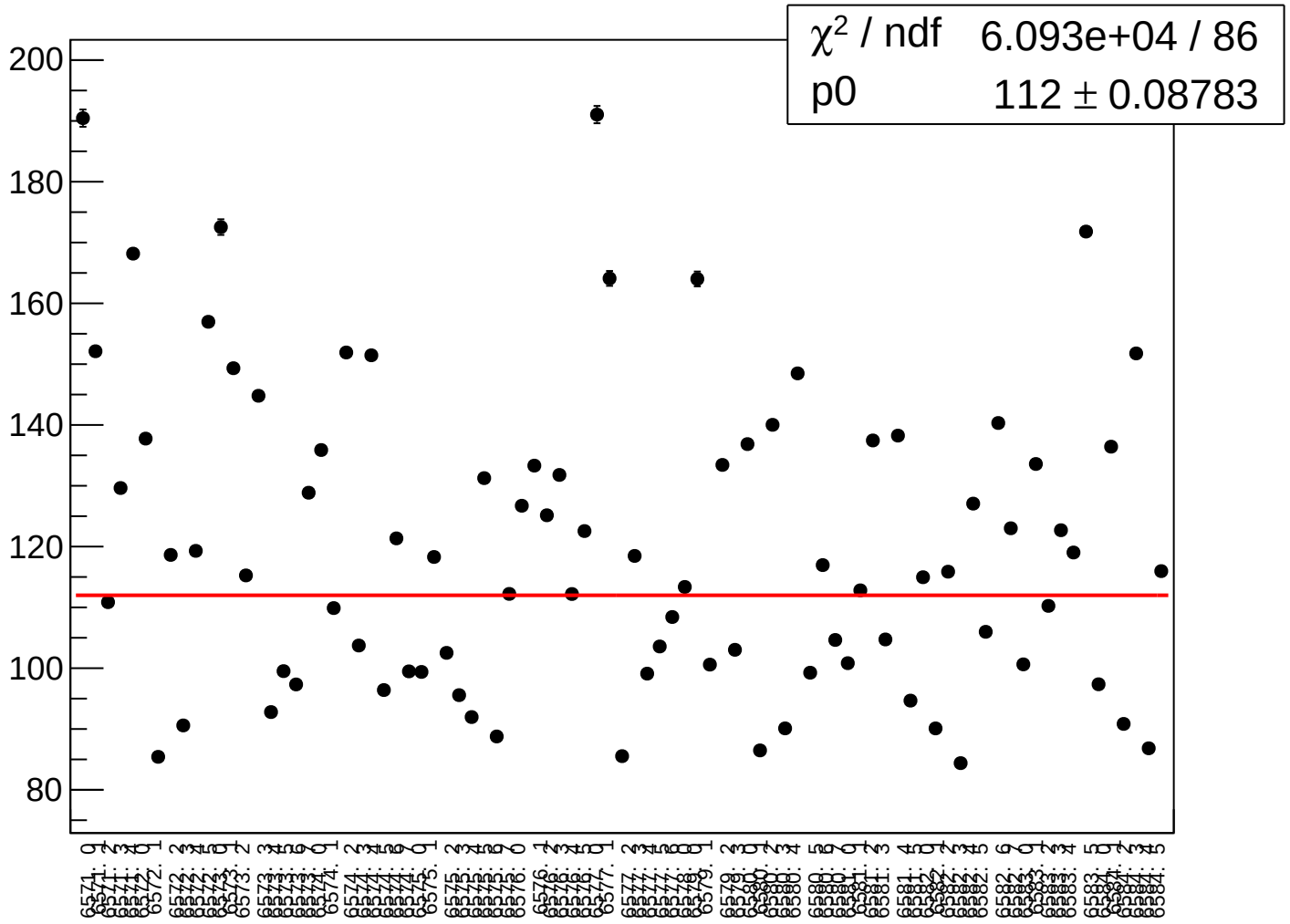

cor_asym_sam3_rms vs run
χ² / ndf 6.093e+04 / 86
p0 112 ± 0.08783
200
180
160
140
120
100
80

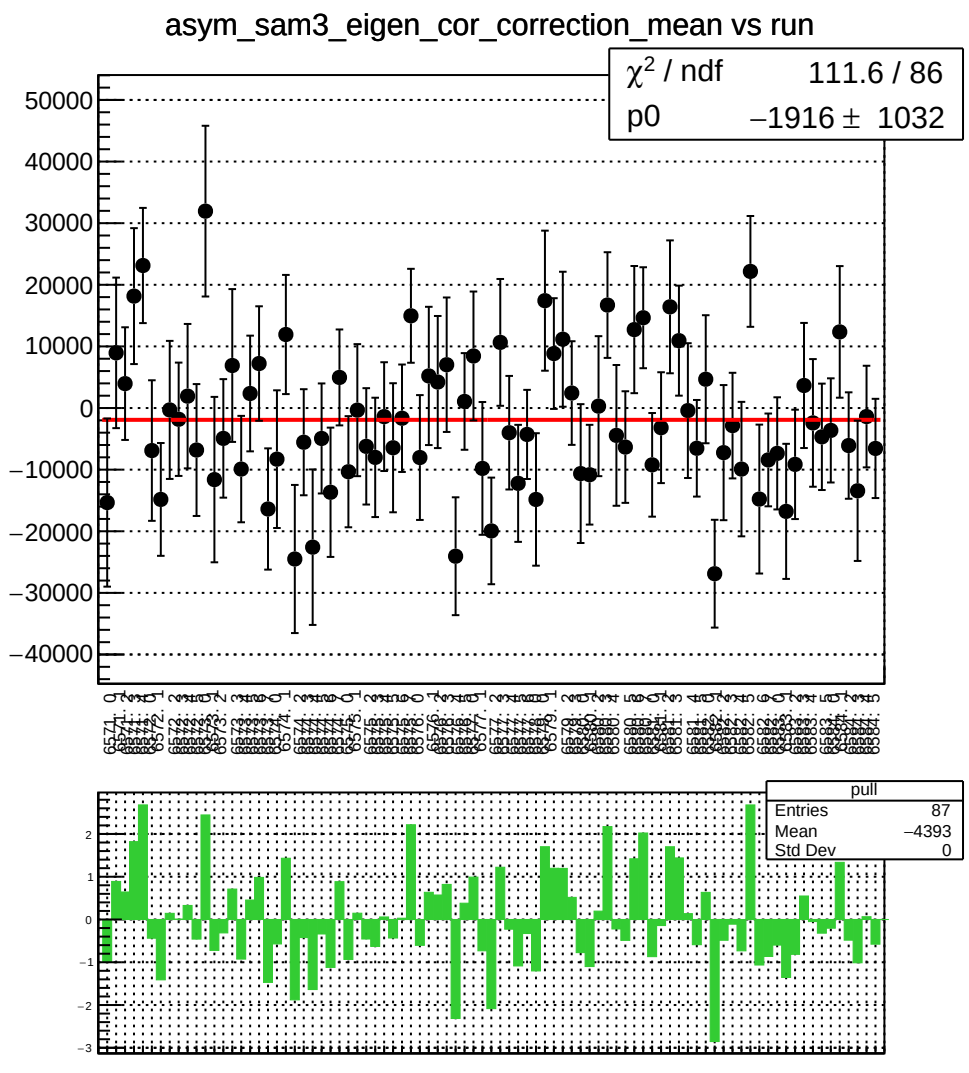

asym_sam3_cor_correction_mean vs run
χ² / ndf 111.6 / 86
p0 −1916 ± 1032
pull
Entries 87
Mean −4393
Std Dev 0

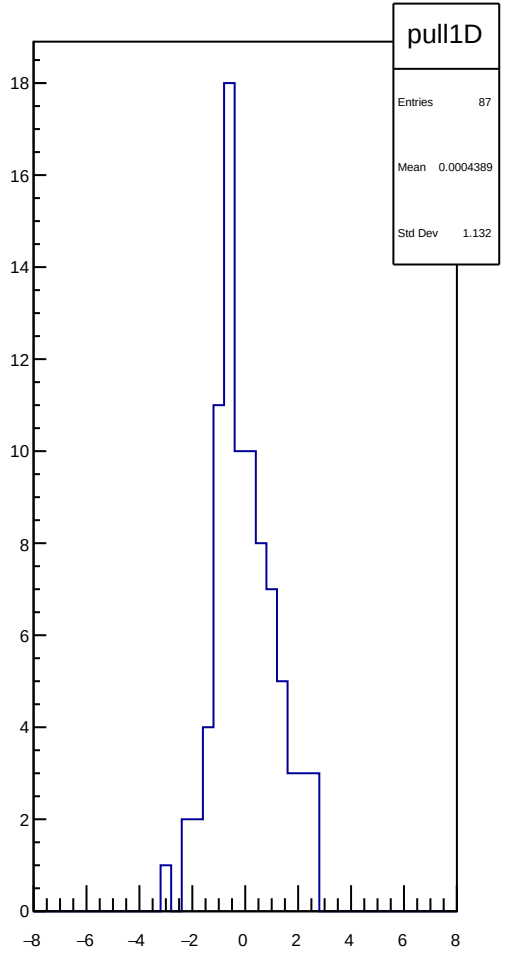

pull1D
Entries 87
Mean 0.0004389
Std Dev 1.132

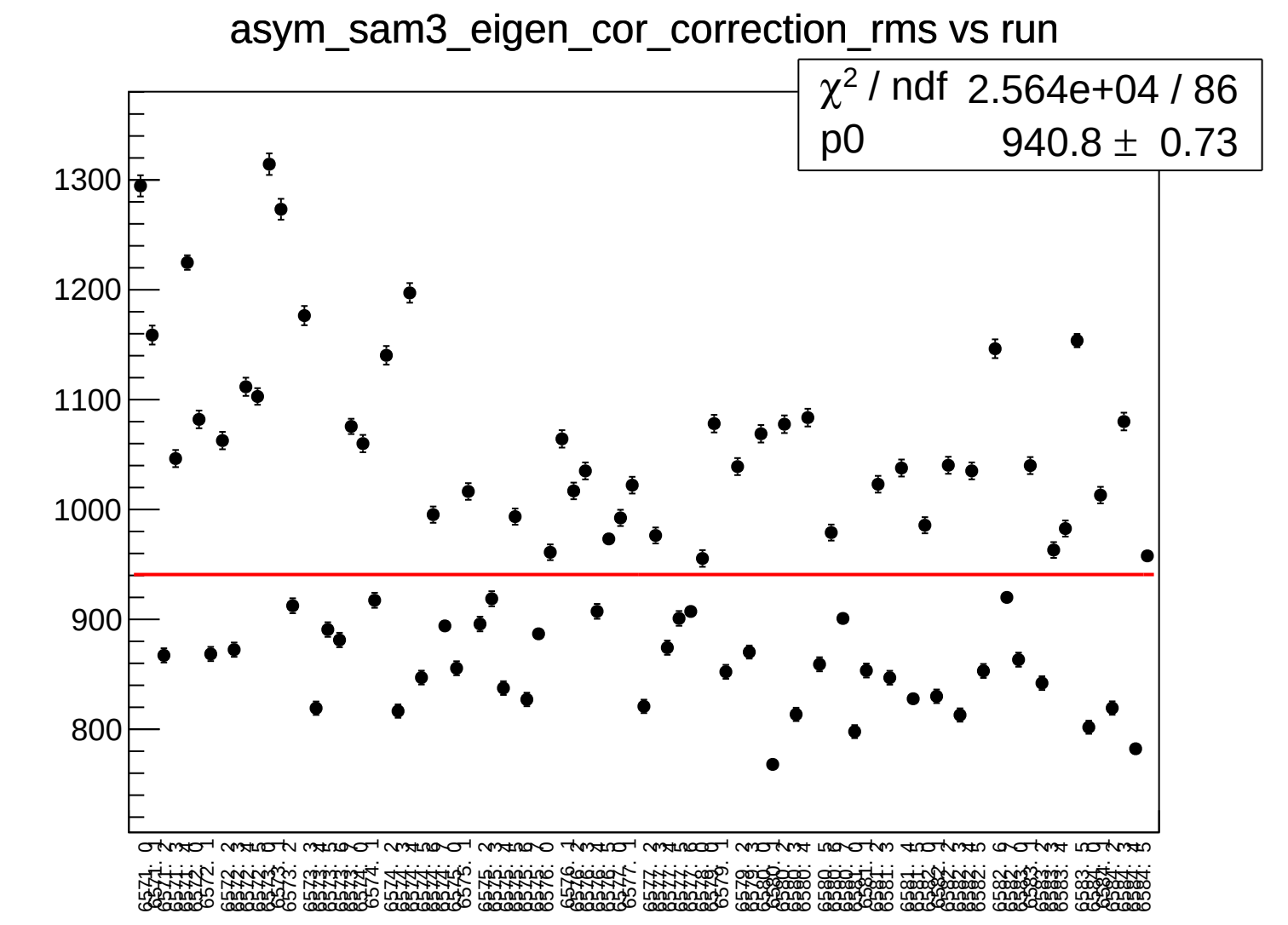

asym_sam3_cor_correction_rms vs run
χ² / ndf 2.564e+04 / 86
p0 940.8 ± 0.73
1300
1200
1100
1000
900
800

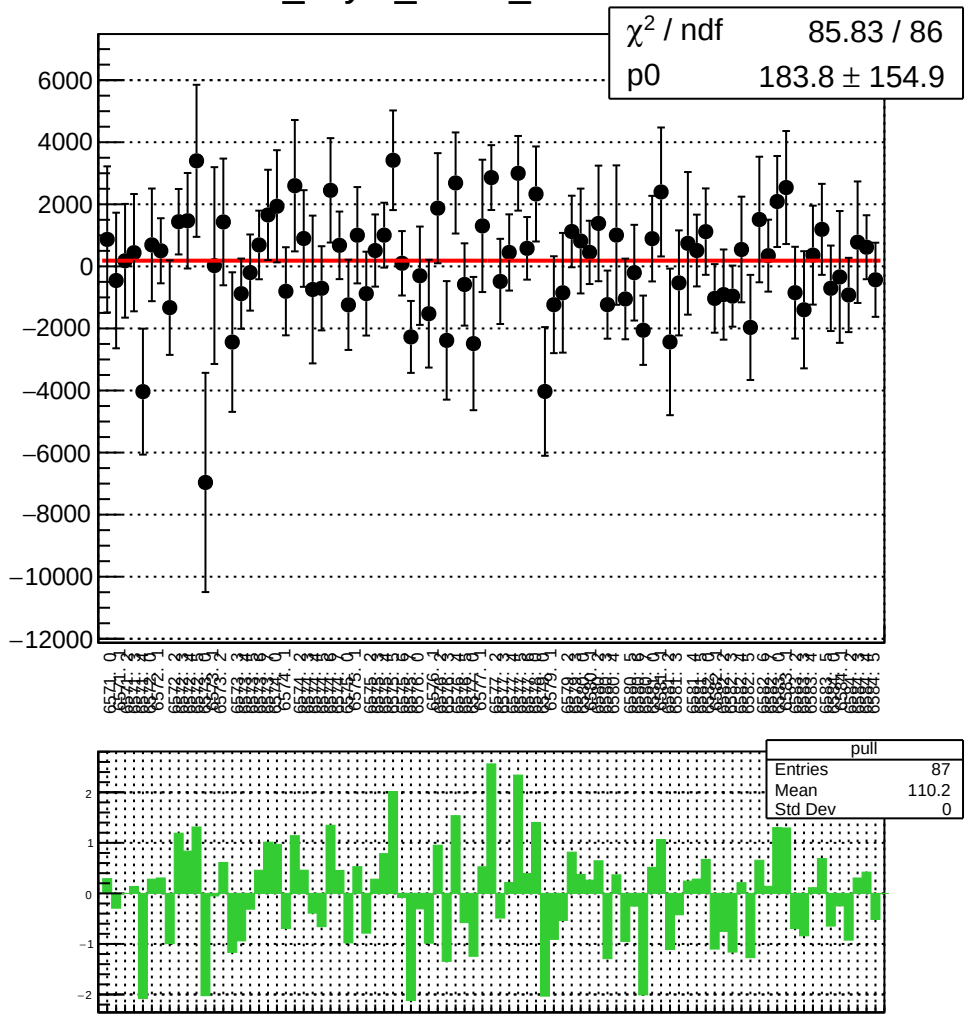

eigen_cor_asym_sam3_mean vs run
χ² / ndf 71.01 / 86
p0 104.1 ± 124.2
pull
Entries 87
Mean 1410
Std Dev 0
pull1D
Entries 87
Mean −0.001908
Std Dev 0.9034

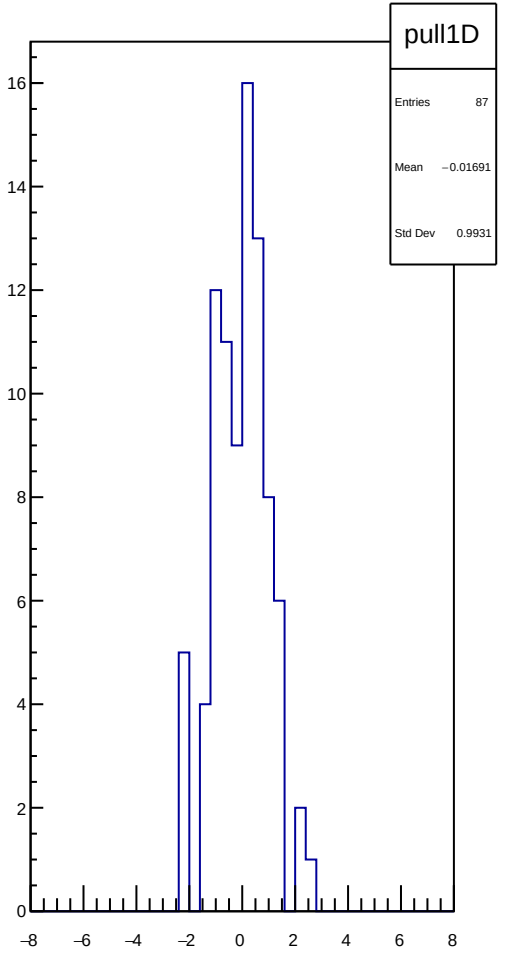

eigen_cor_asym_sam3_rms vs run
χ² / ndf 6.093e+04 / 86
p0 112 ± 0.08783
200
180
160
140
120
100
80

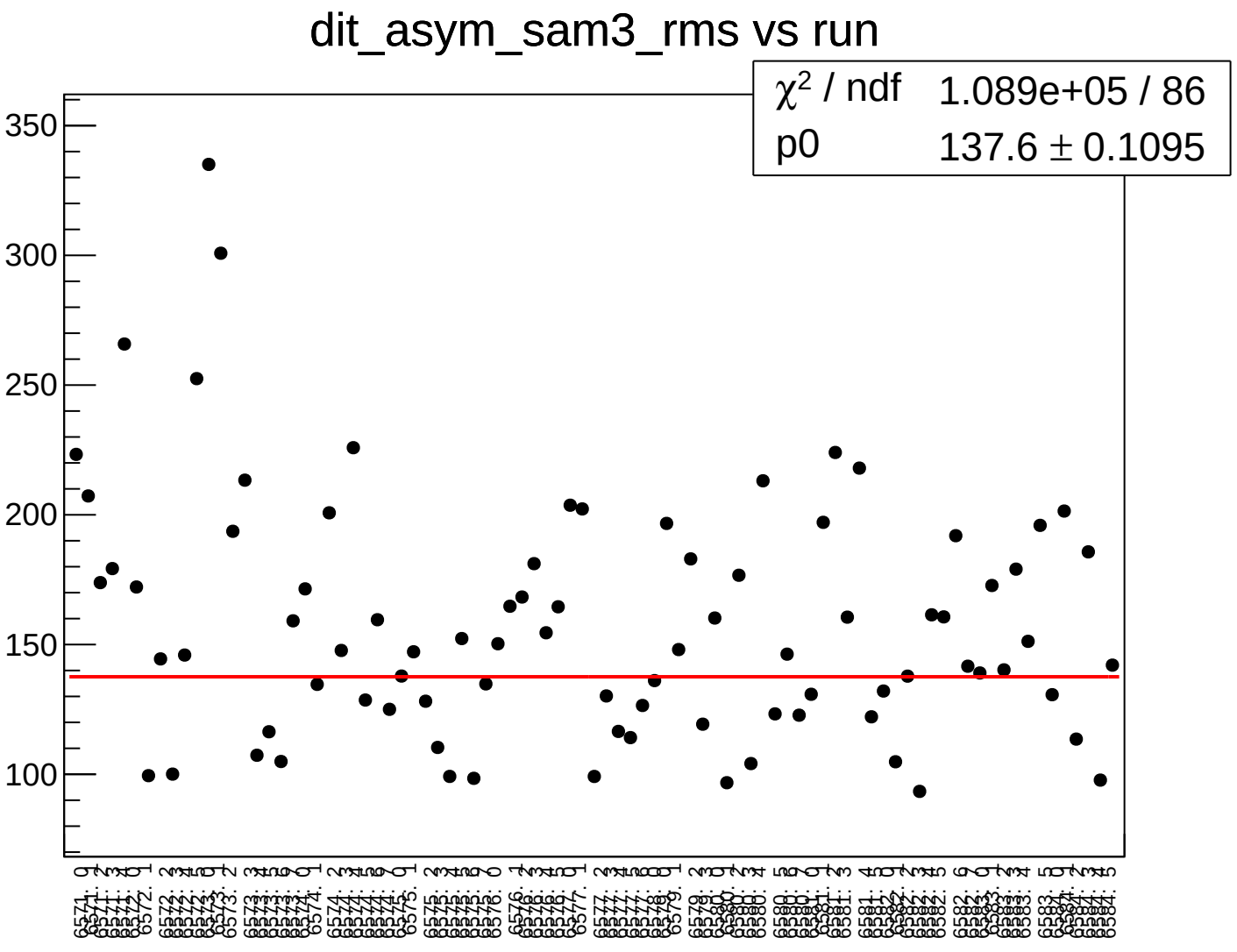

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 111.6 / 86
p0 −1916 ± 1032
pull
Entries 87
Mean −4393
Std Dev 0

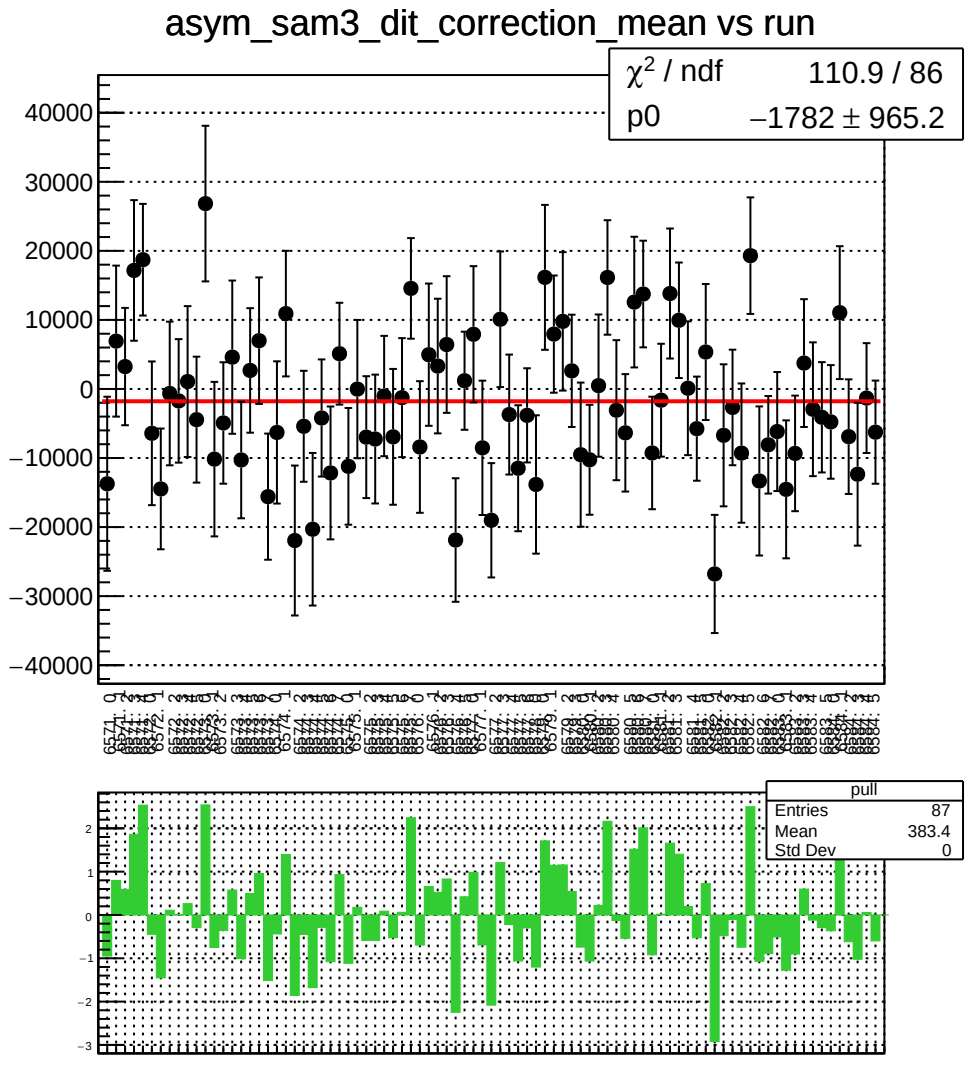

pull1D
Entries 87
Mean 0.0004389
Std Dev 1.132

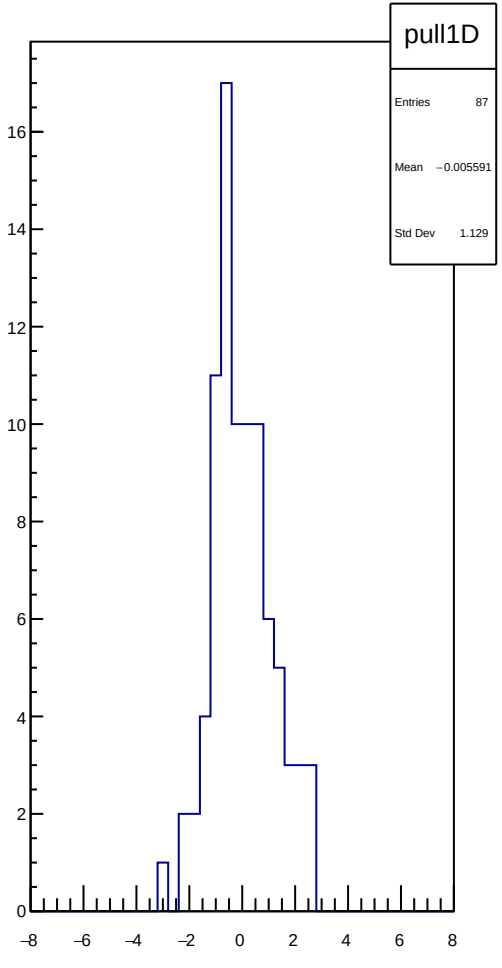

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 2.564e+04 / 86
p0 940.8 ± 0.73
1300
1200
1100
1000
900
800


dit_asym_sam3_mean vs run
χ^2 / ndf 85.83 / 86
p0 183.8 ± 154.9
pull
Entries 87
Mean 110.2
Std Dev 0

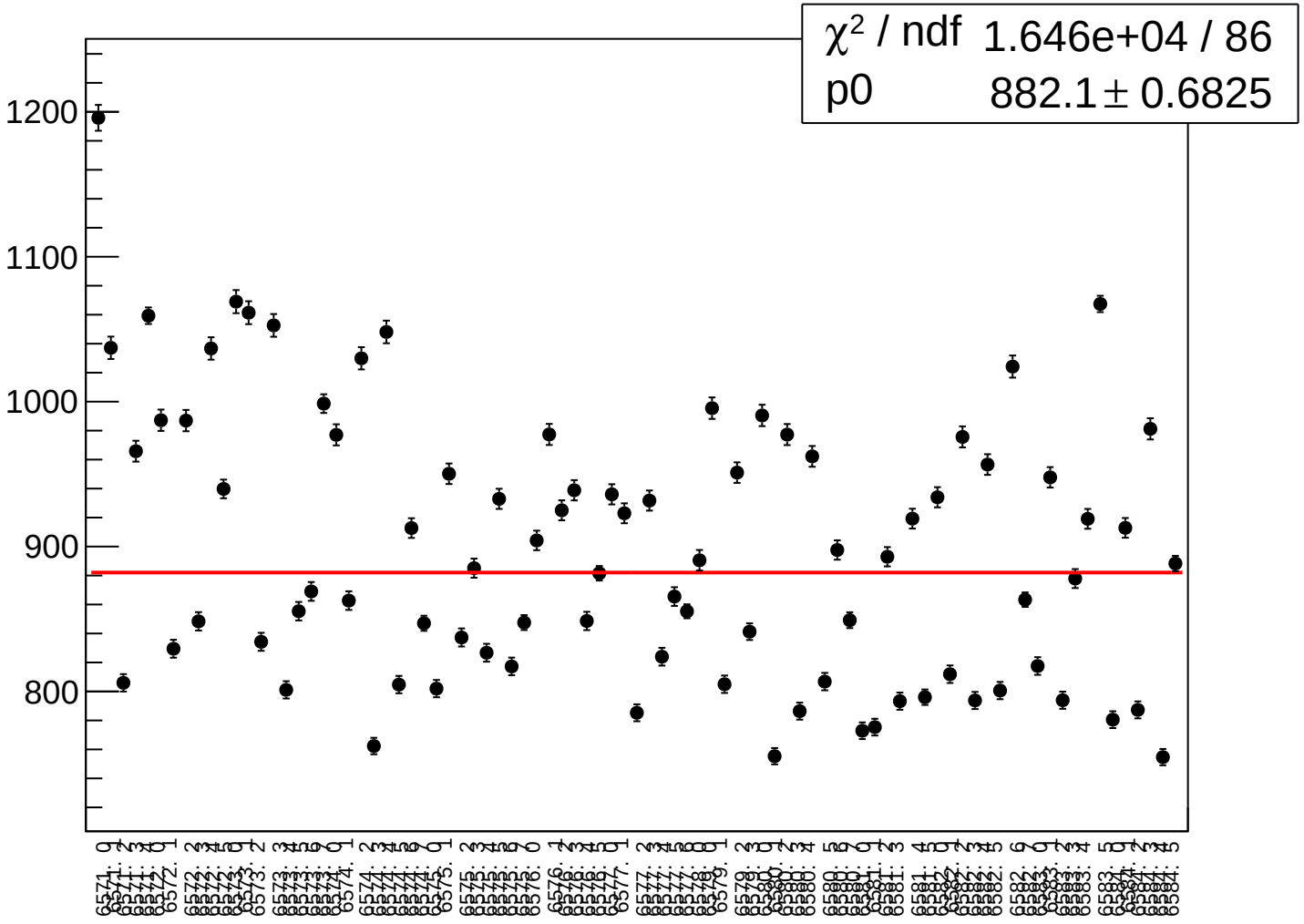

pull1D
Entries 87
Mean −0.01691
Std Dev 0.9931

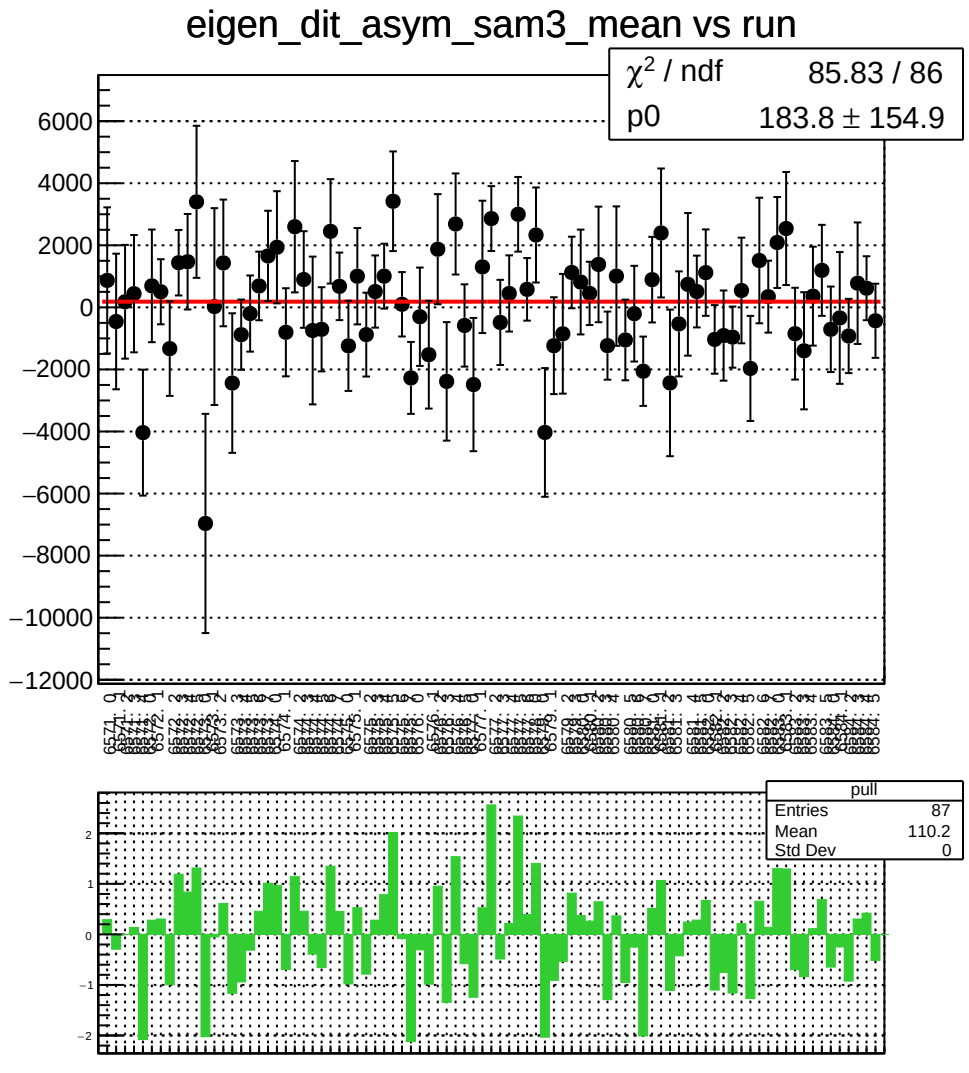

dit_asym_sam3_rms vs run
χ² / ndf 1.089e+05 / 86
p0 137.6 ± 0.1095
350
300
250
200
150
100

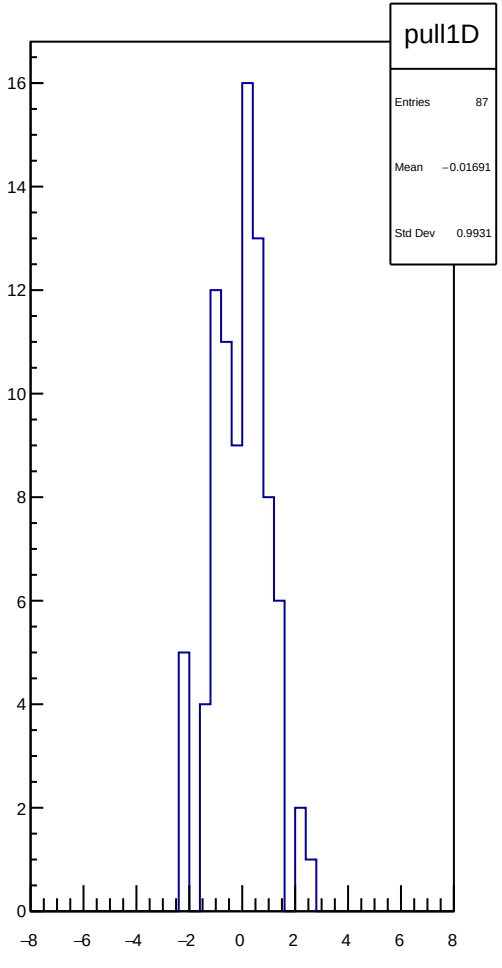

asym_sam3_dit_correction_mean vs run
χ² / ndf 110.9 / 86
p0 −1782 ± 965.2
pull
Entries 87
Mean 383.4
Std Dev 0

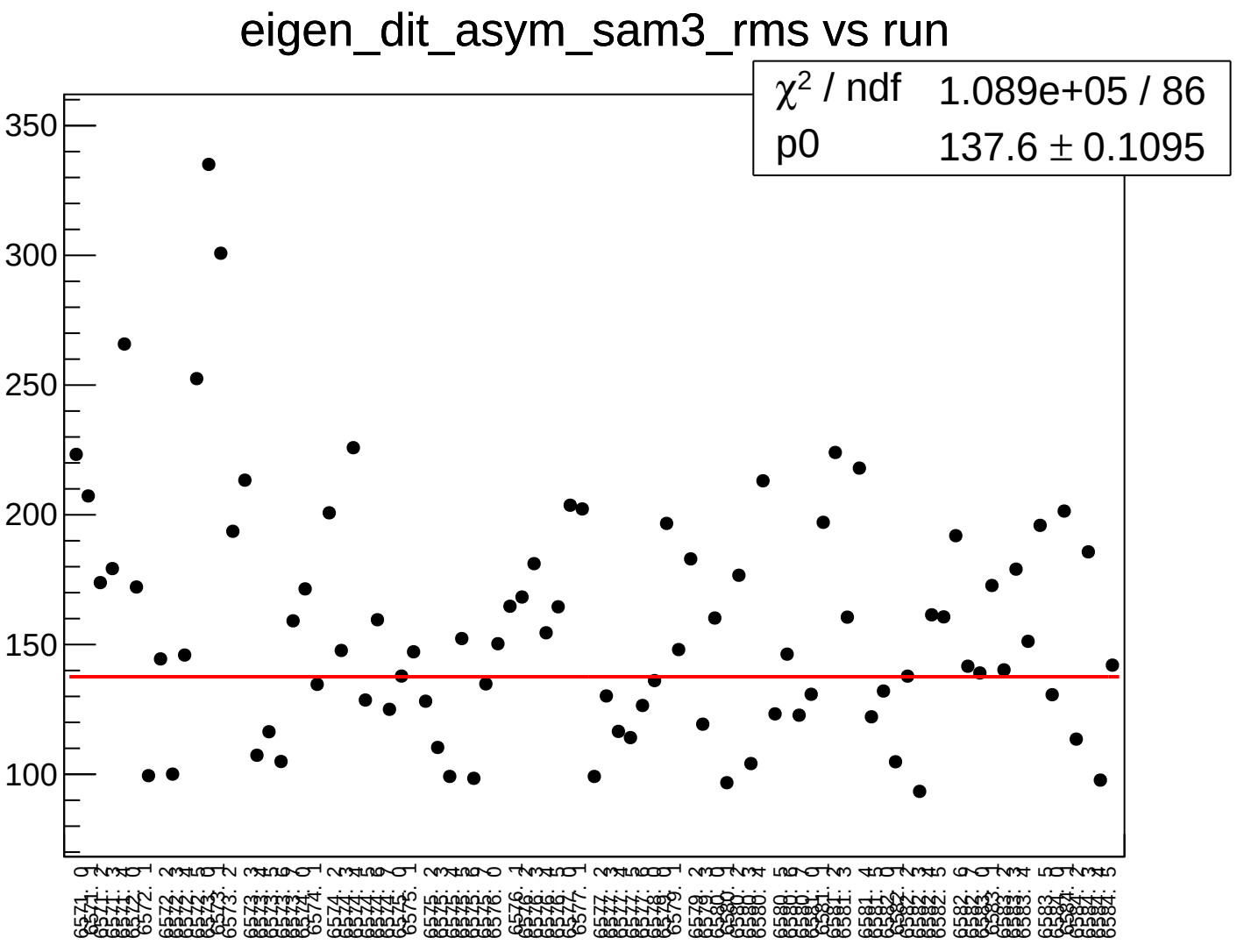

pull1D
Entries 87
Mean −0.005591
Std Dev 1.129

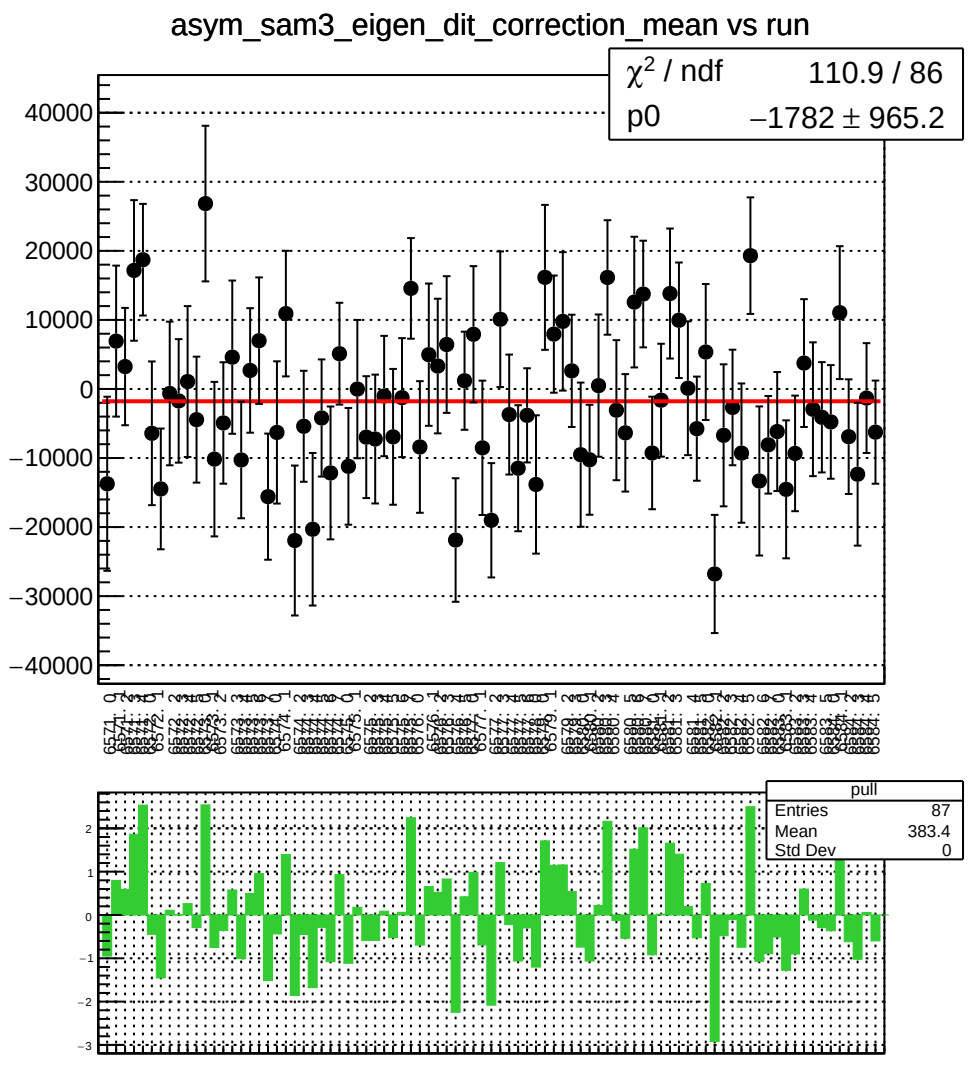
asym_sam3_dit_correction_rms vs run

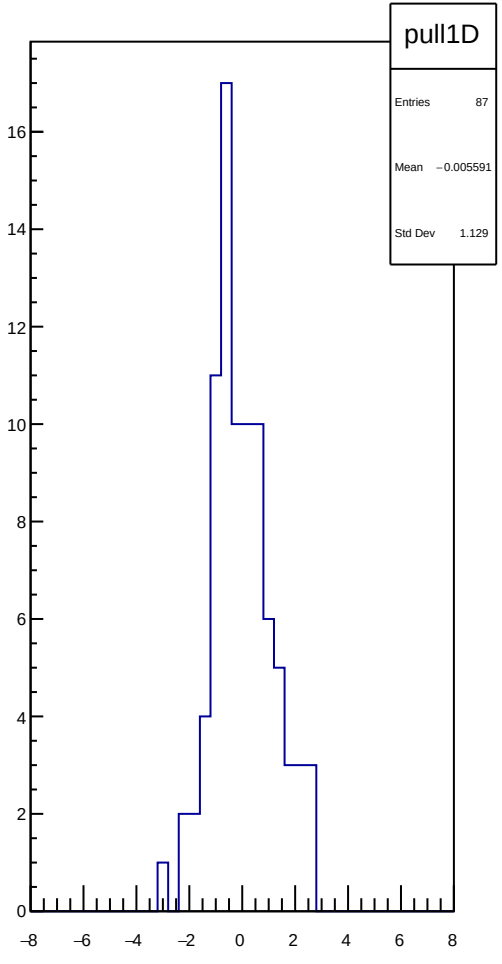


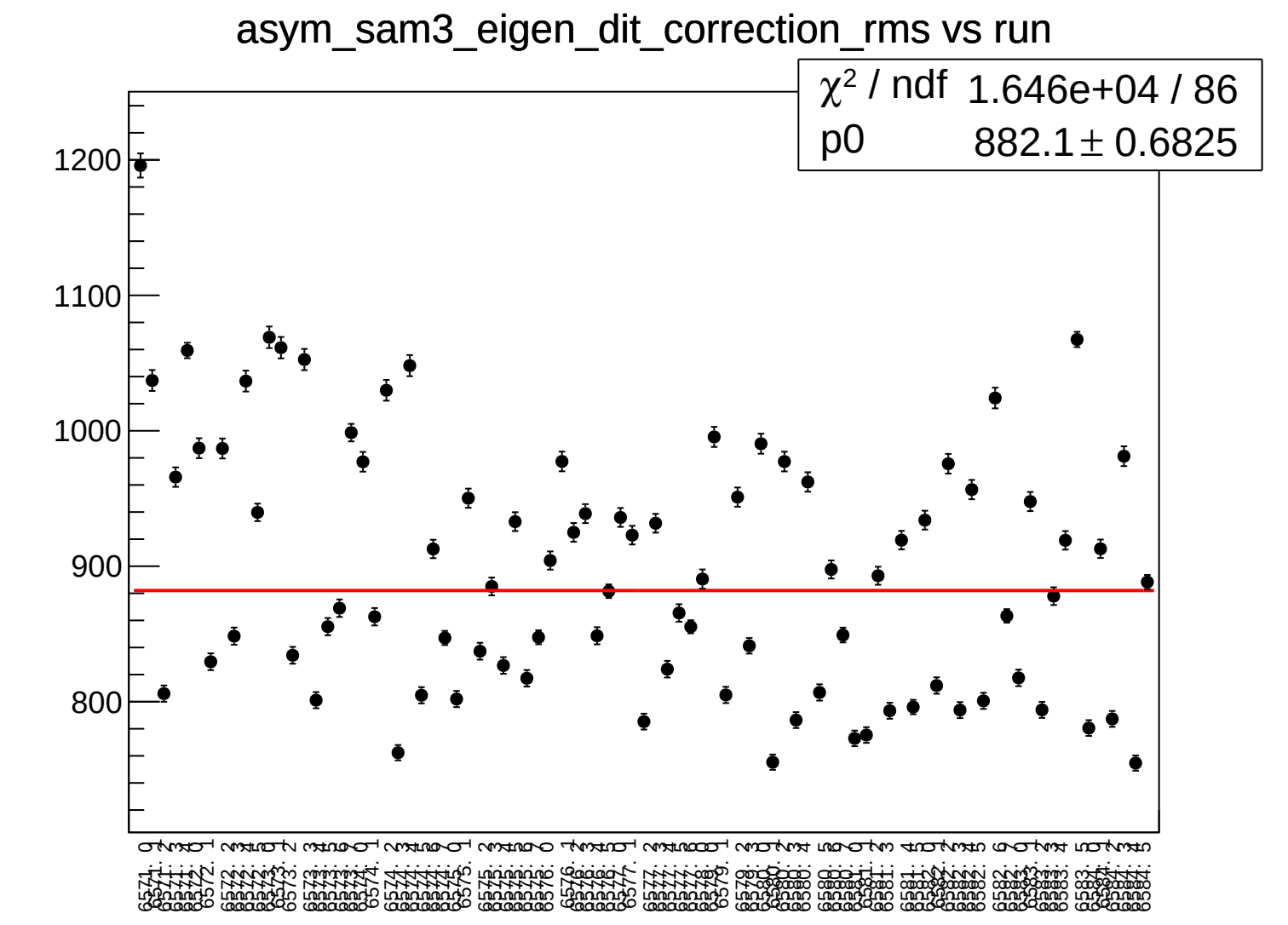

eigen_dit_asym_sam3_mean vs run
χ² / ndf 85.83 / 86
p0 183.8 ± 154.9
pull
Entries 87
Mean 110.2
Std Dev 0

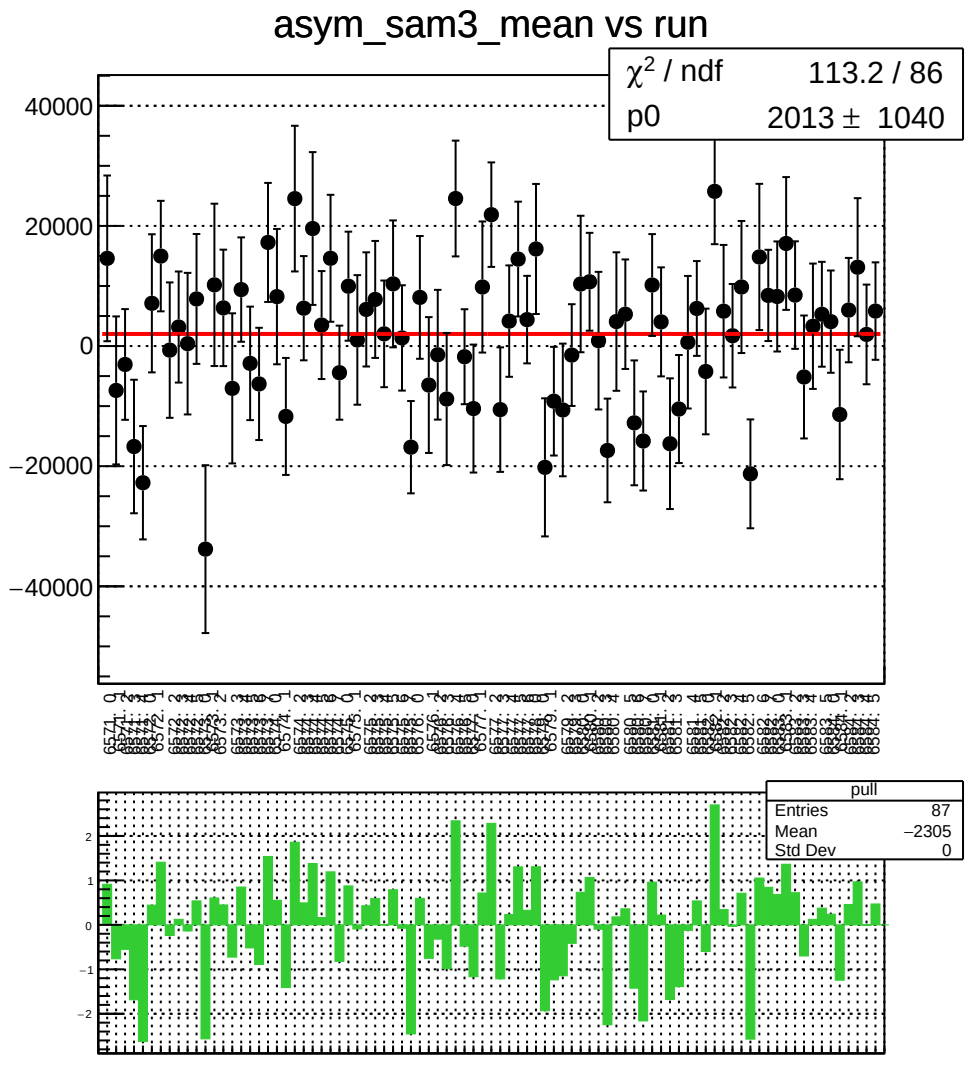

pull1D
Entries 87
Mean −0.01691
Std Dev 0.9931

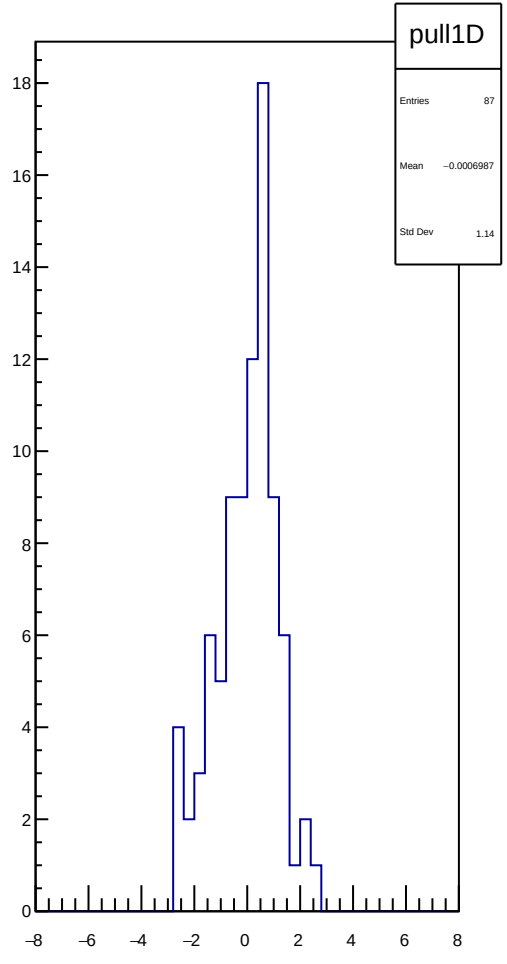

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.089e+05 / 86
p0 137.6 ± 0.1095
350
300
250
200
150
100

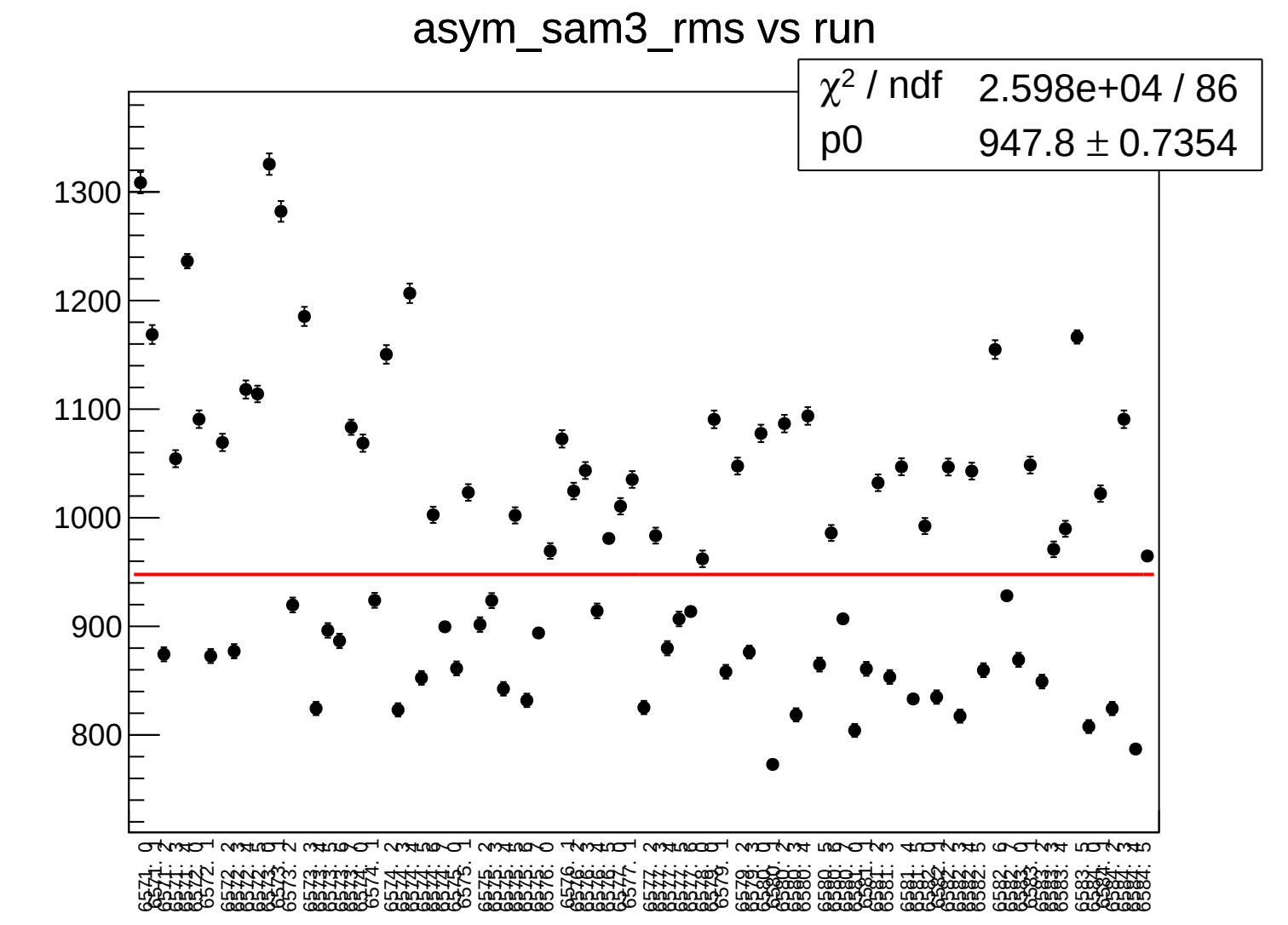

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 110.9 / 86
p0 −1782 ± 965.2
pull
Entries 87
Mean 383.4
Std Dev 0

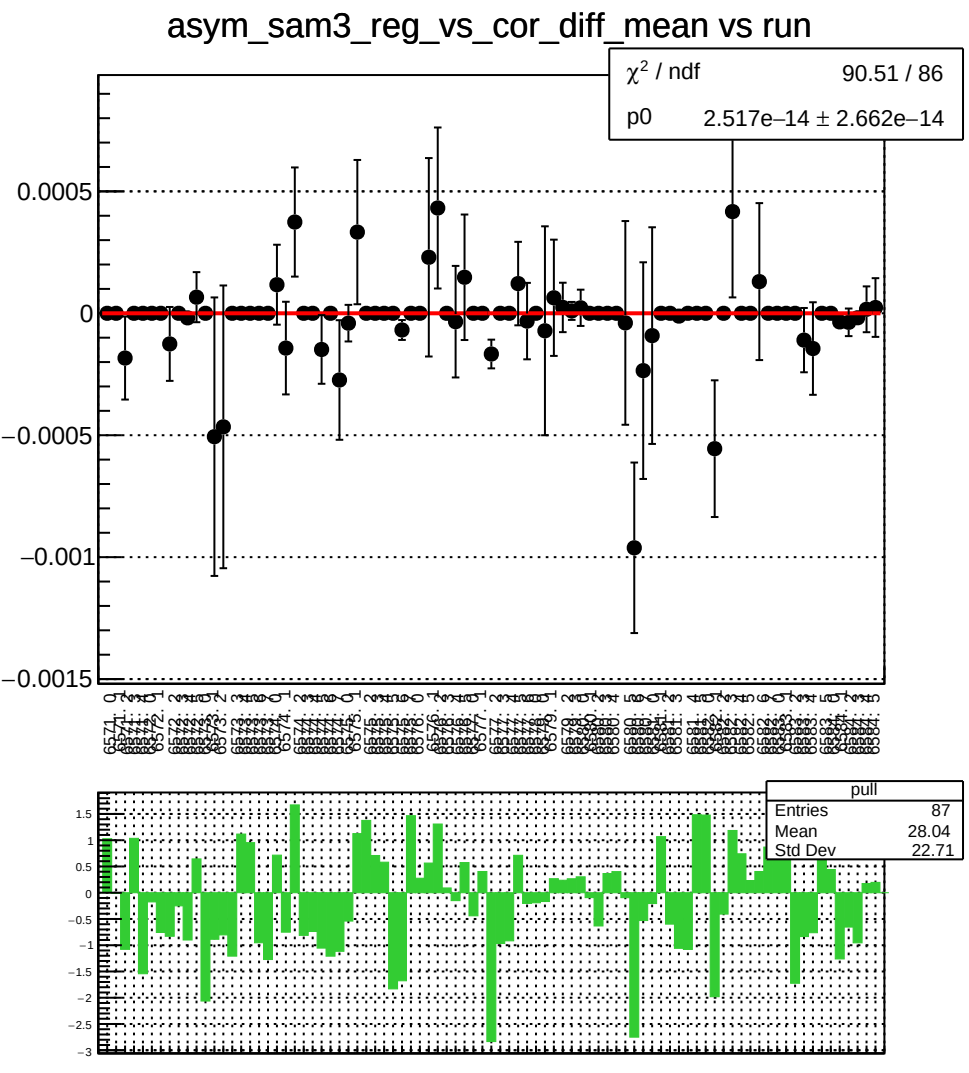

pull1D
Entries 87
Mean −0.005591
Std Dev 1.129

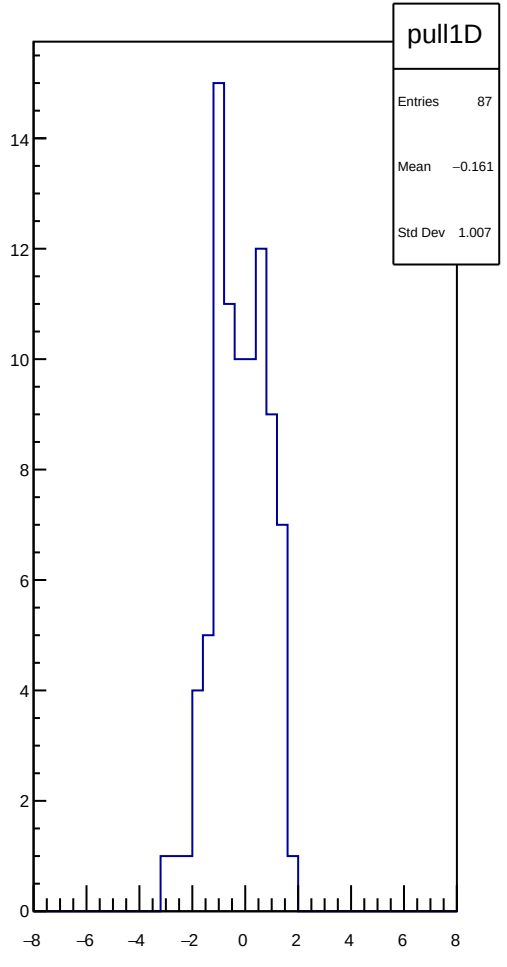

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.646e+04 / 86
p0 882.1 ± 0.6825
1200
1100
1000
900
800

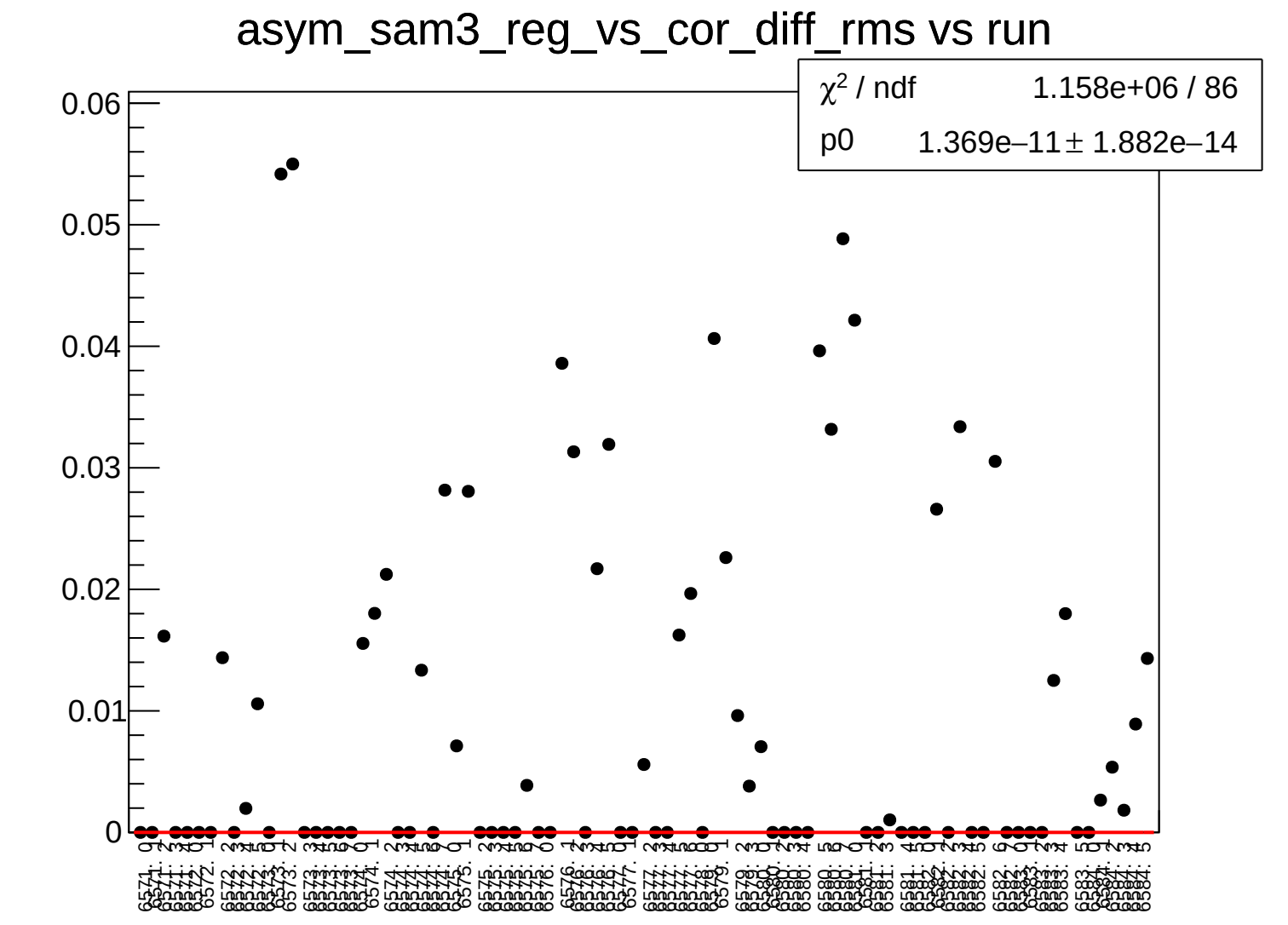

asym_sam3_mean vs run
χ² / ndf 113.2 / 86
p0 2013 ± 1040
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −2305
Std Dev 0
2
1
0
−1
−2

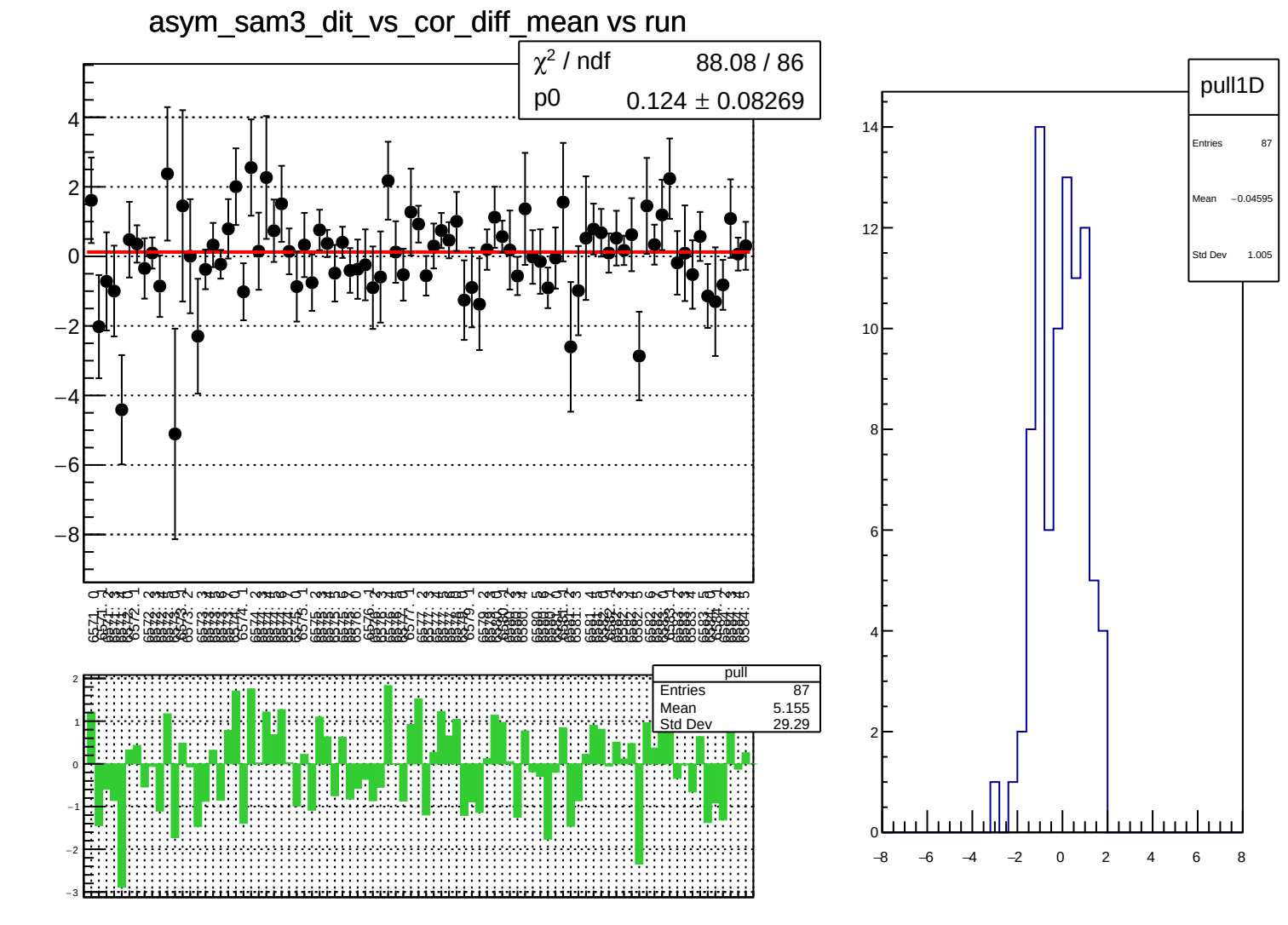

pull1D
Entries 87
Mean −0.0006987
Std Dev 1.14
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

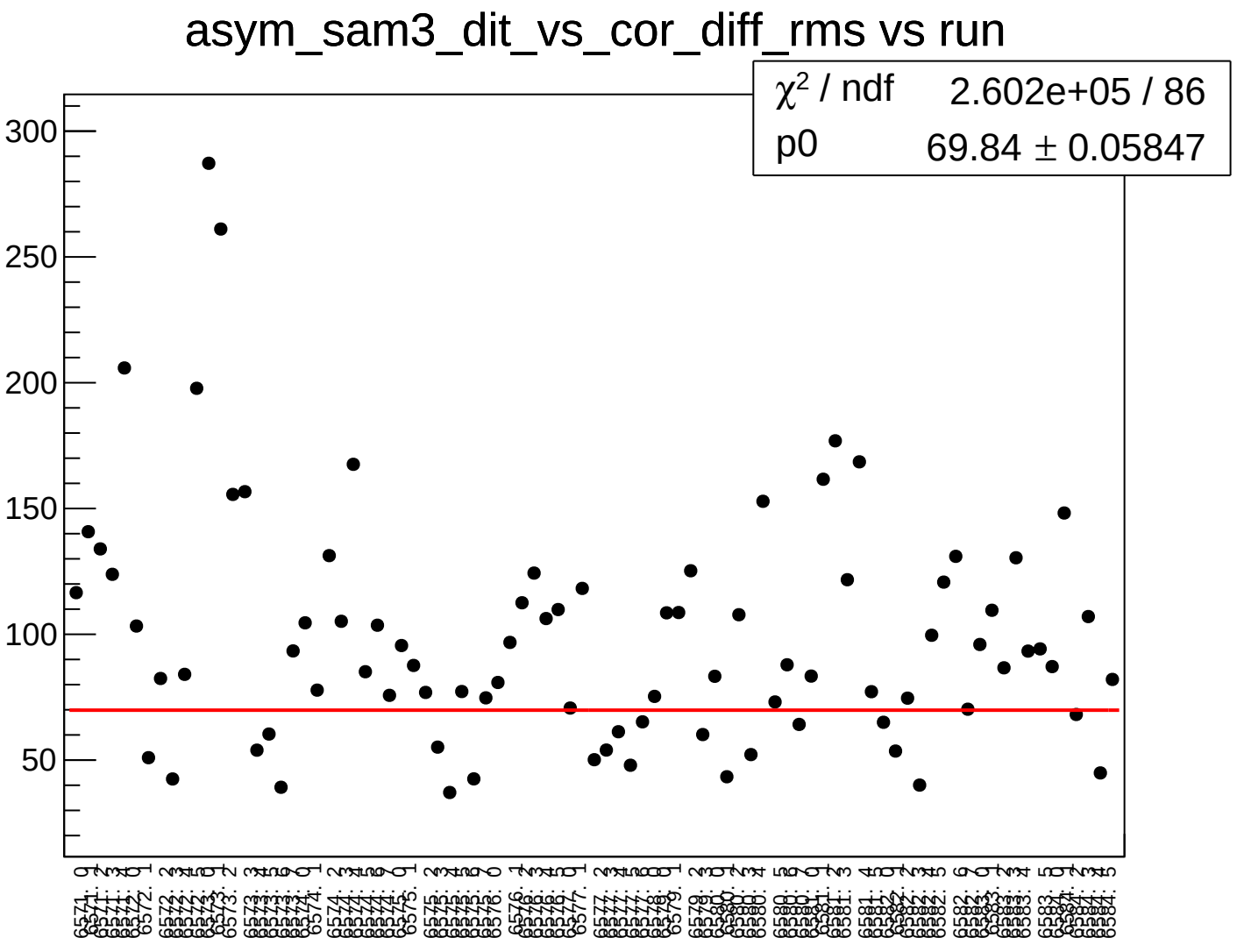

asym_sam3_rms vs run
χ² / ndf 2.598e+04 / 86
p0 947.8 ± 0.7354
1300
1200
1100
1000
900
800

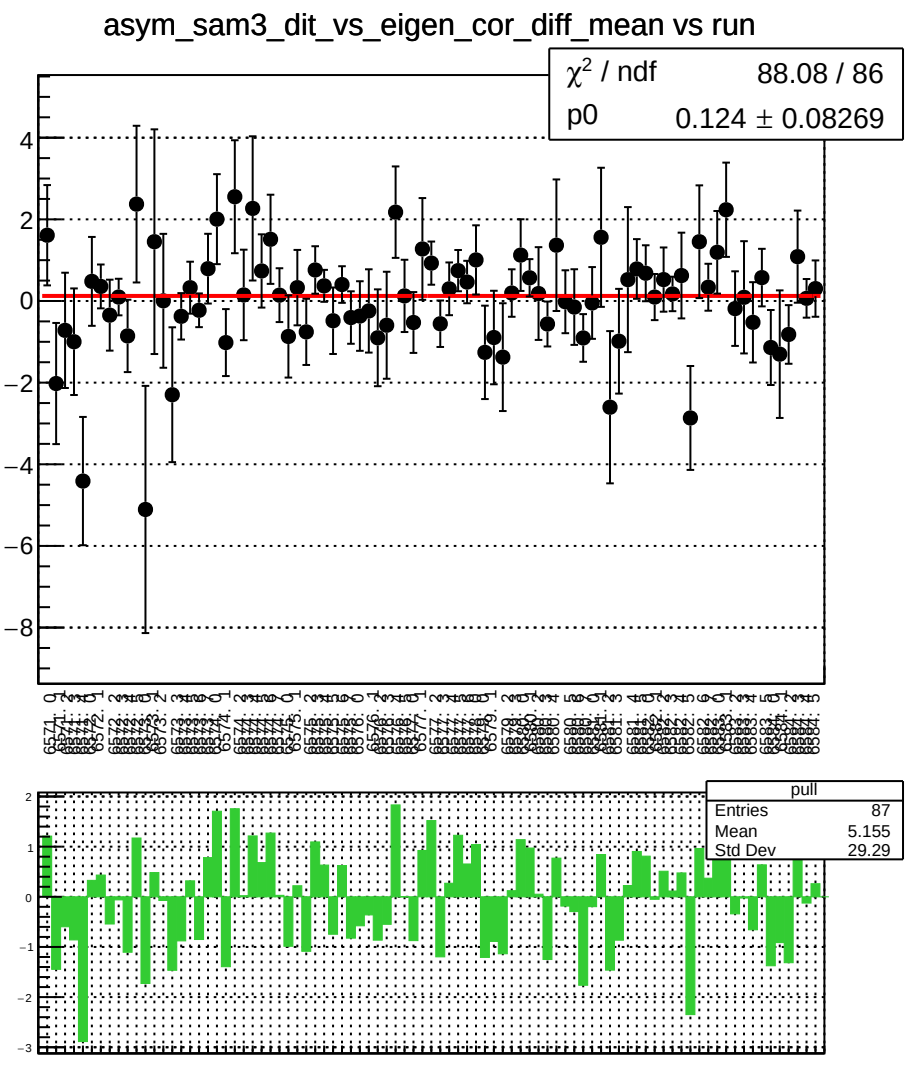

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 90.51 / 86
p0 2.517e−14 ± 2.662e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean 28.04
Std Dev 22.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

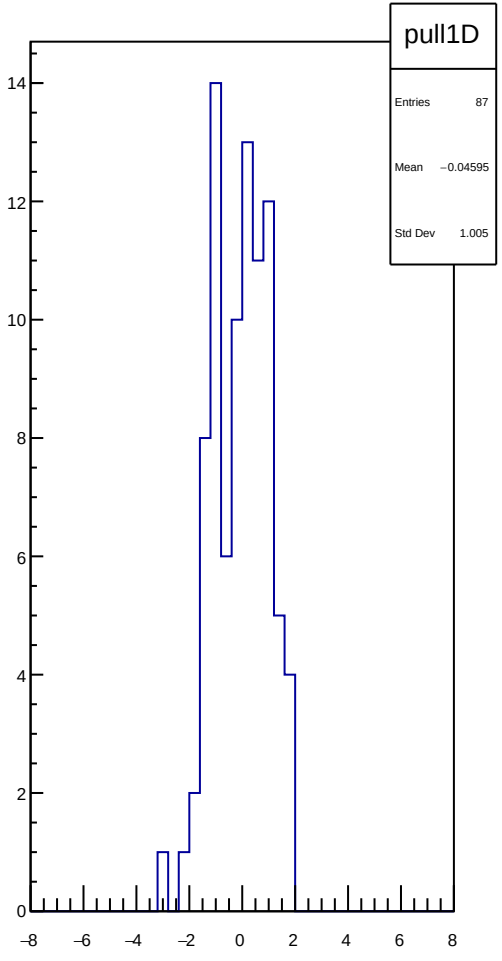

pull1D
Entries 87
Mean −0.161
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

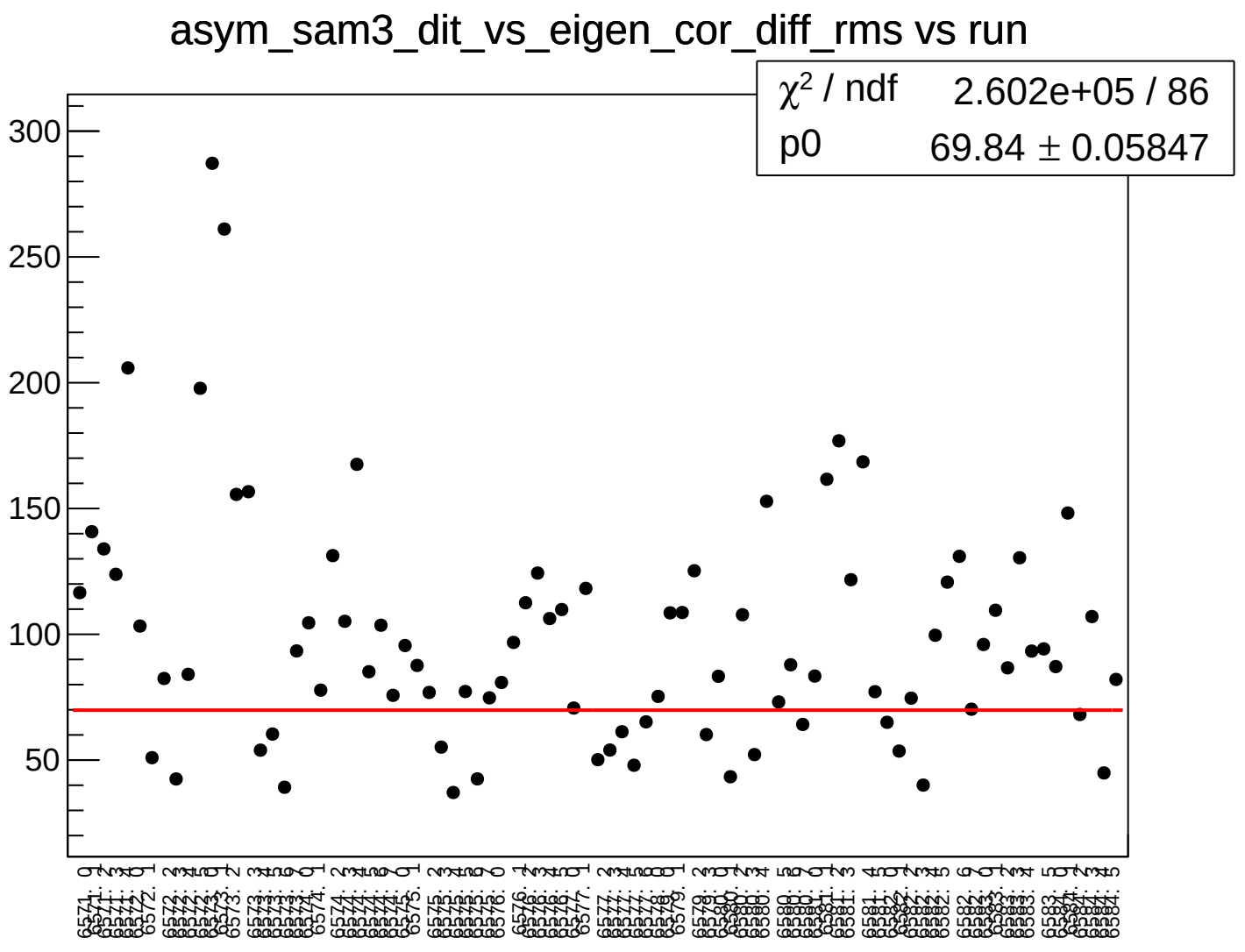

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.158e+06 / 86
p0 1.369e−11 ± 1.882e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

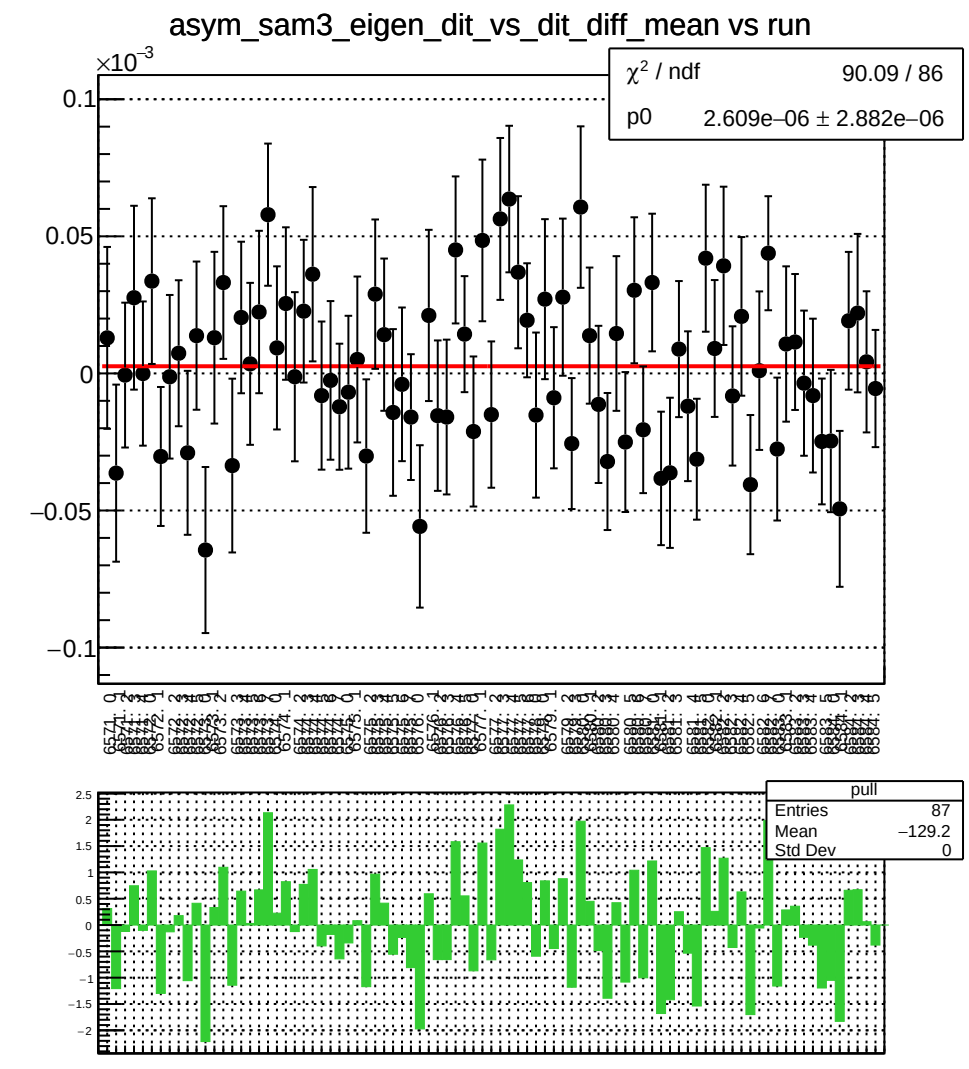

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 88.08 / 86
p0 0.124 ± 0.08269
pull
Entries 87
Mean 5.155
Std Dev 29.29
pull1D
Entries 87
Mean −0.04595
Std Dev 1.005

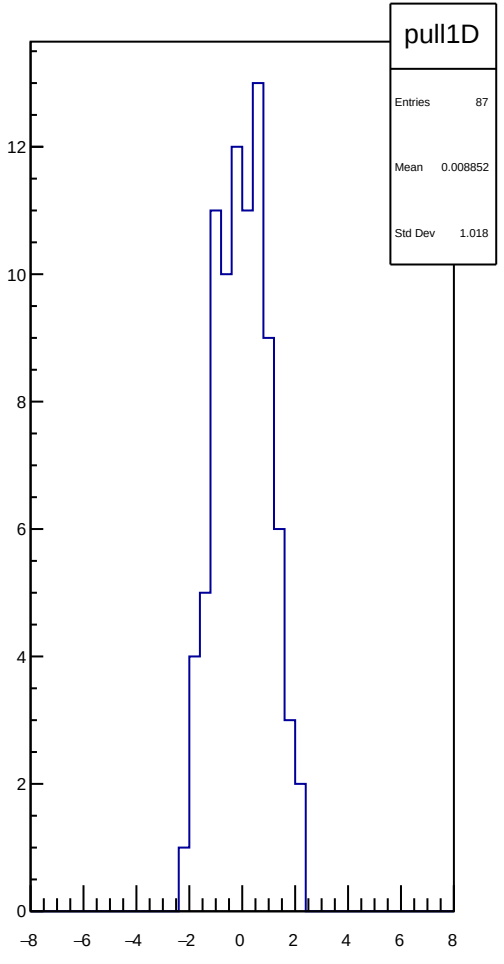

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 86
p0 69.84 ± 0.05847
300
250
200
150
100
50

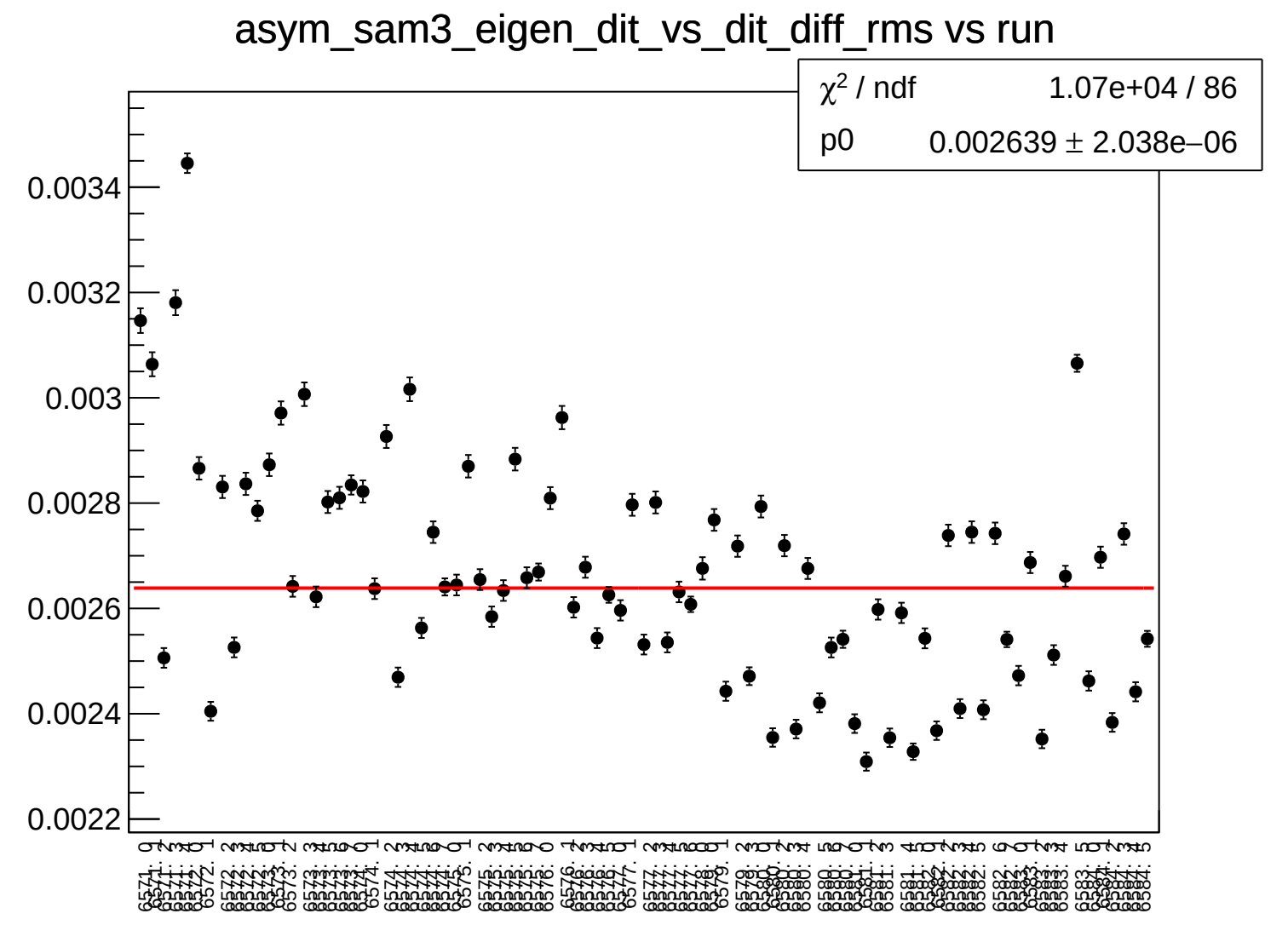

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.08 / 86
p0 0.124 ± 0.08269
pull
Entries 87
Mean 5.155
Std Dev 29.29

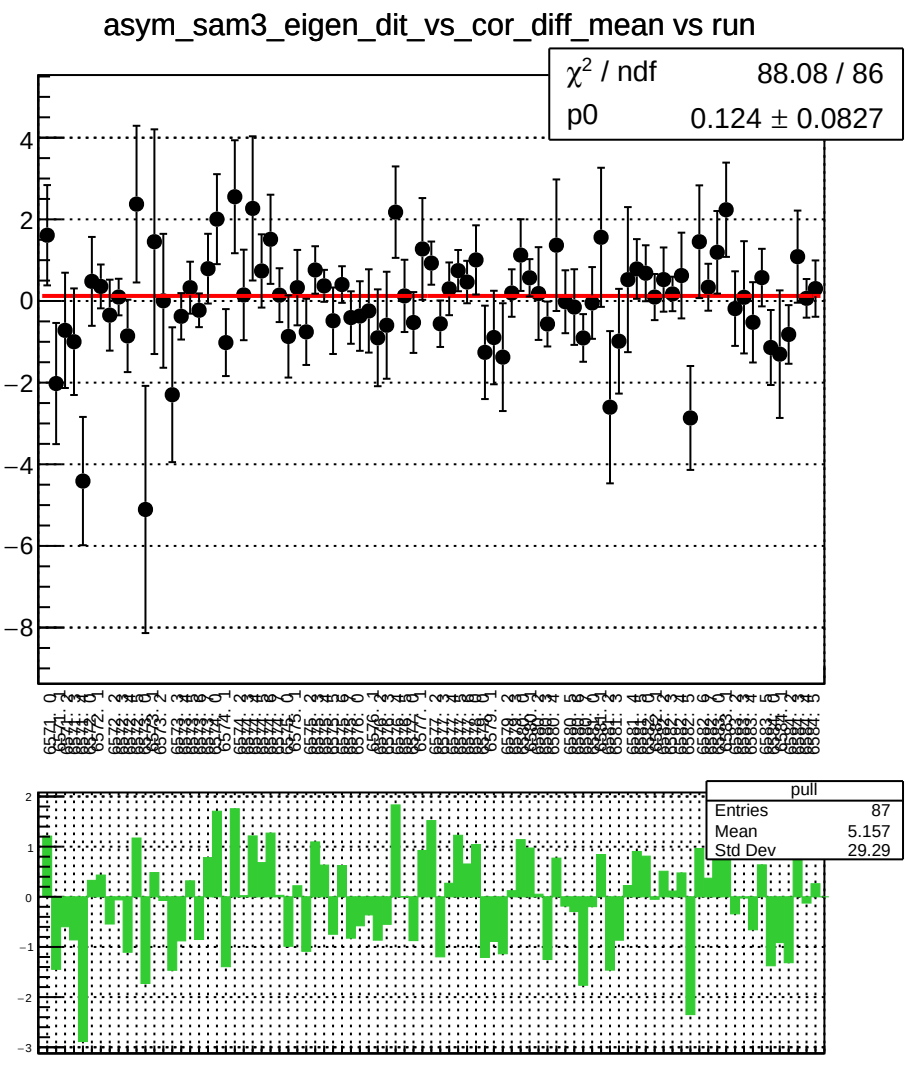

pull1D
Entries 87
Mean −0.04595
Std Dev 1.005

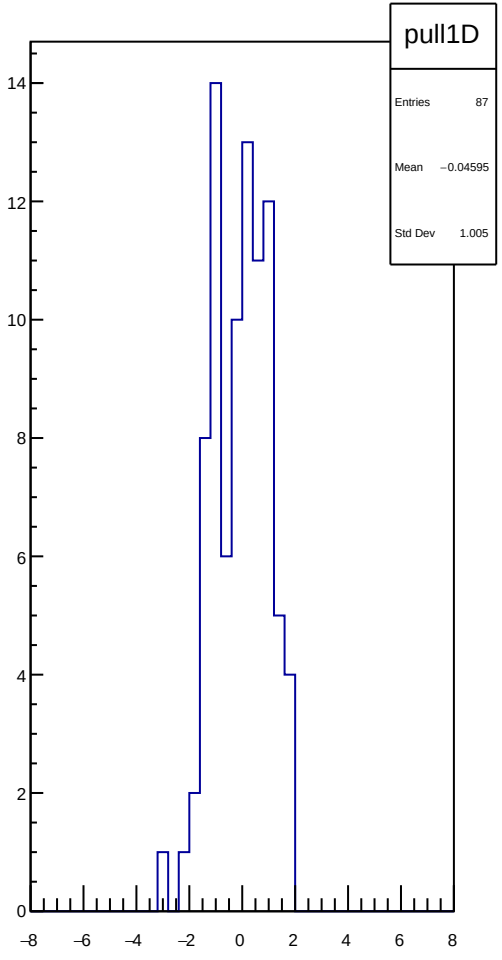

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 86
p0 69.84 ± 0.05847
300
250
200
150
100
50

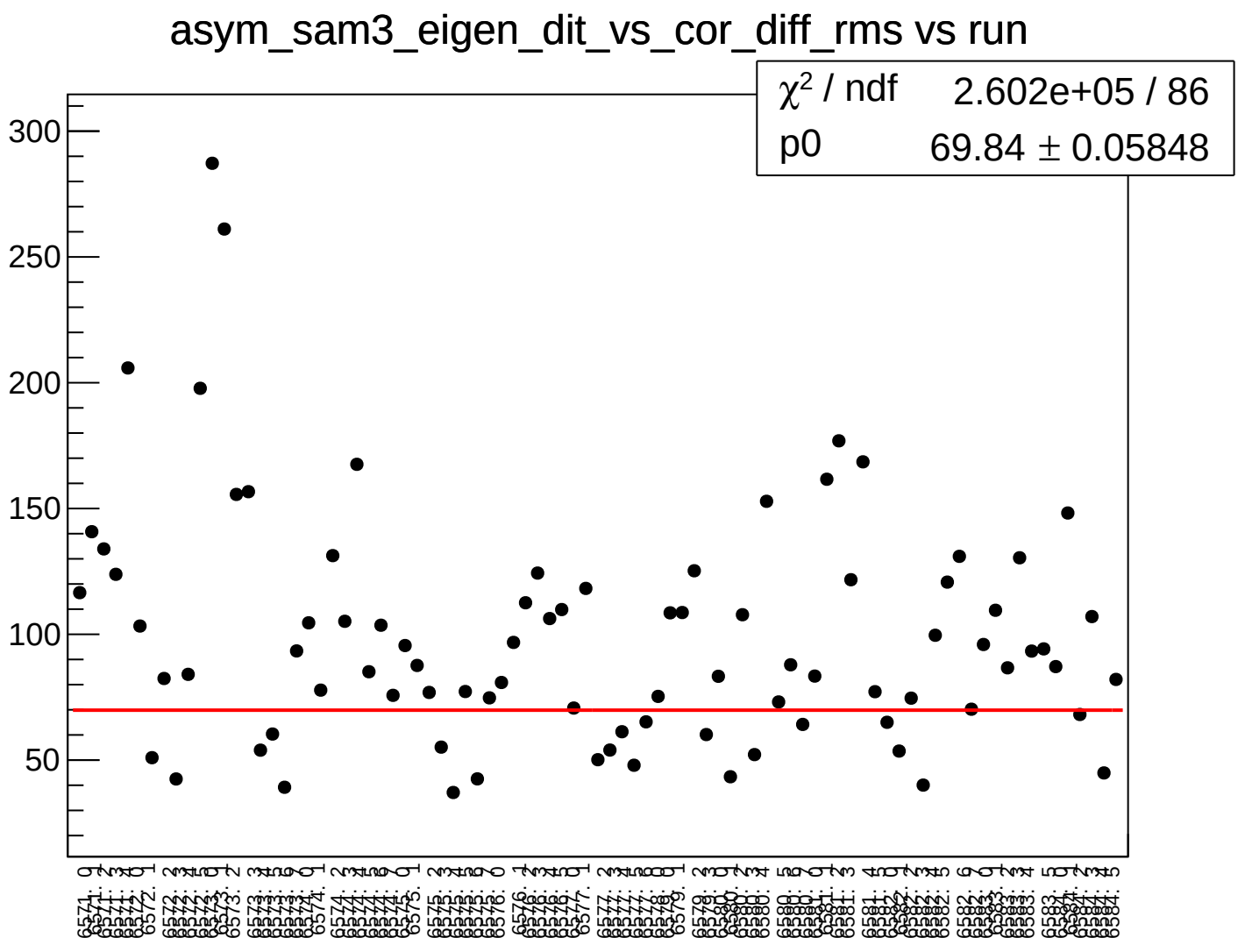

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.09 / 86
p0 2.609e−06 ± 2.882e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −129.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

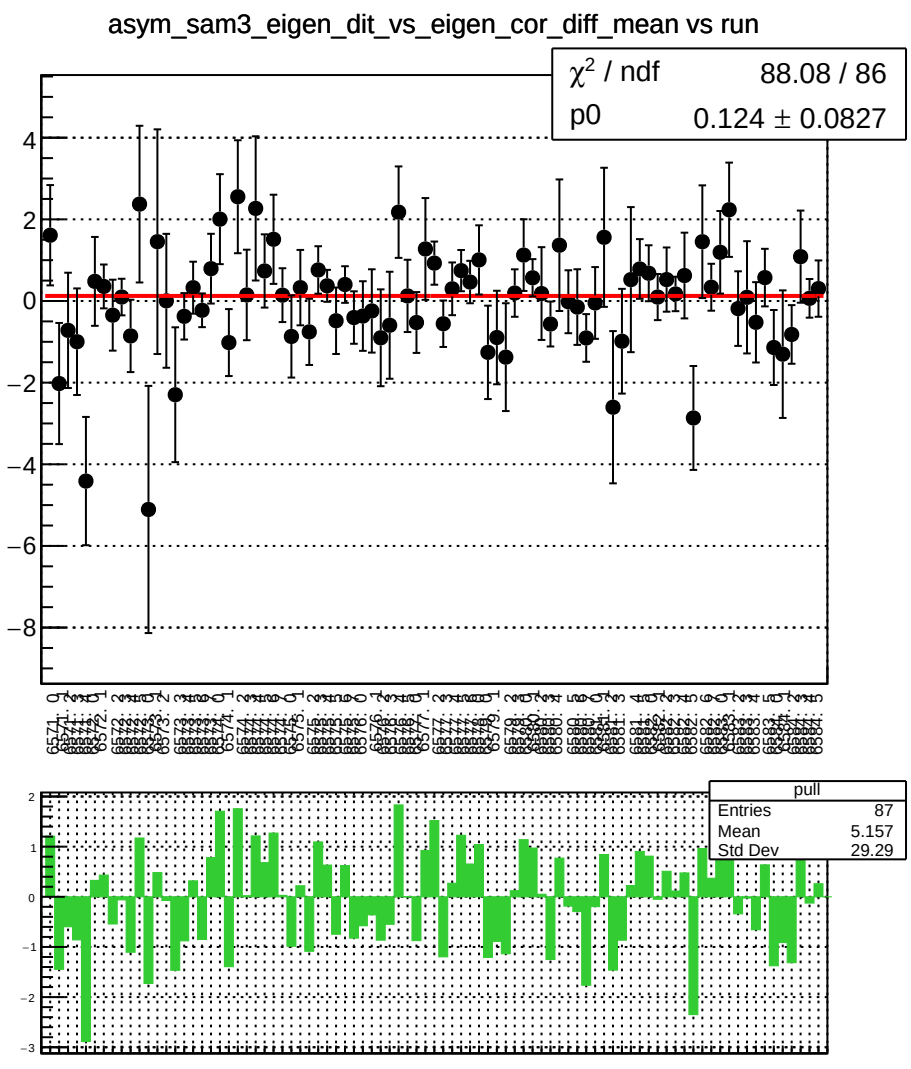

pull1D
Entries 87
Mean 0.008852
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

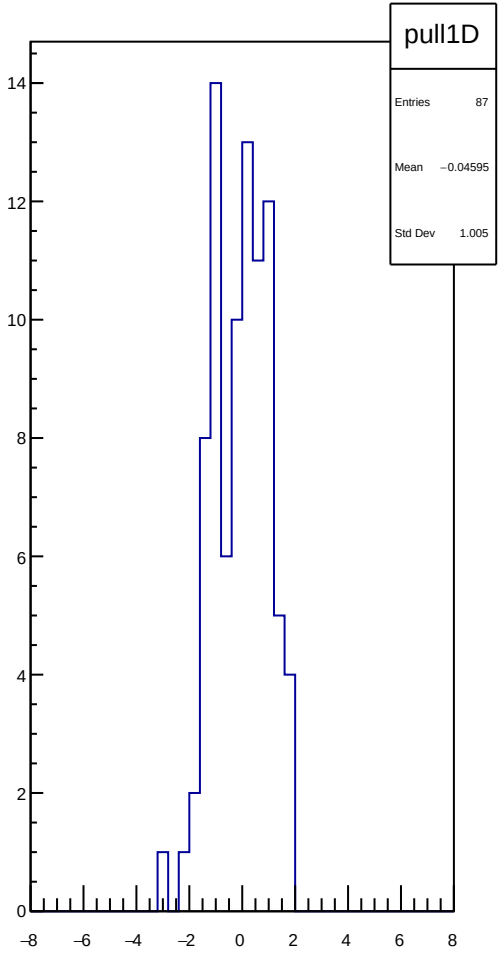

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.07e+04 / 86
p0 0.002639 ± 2.038e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

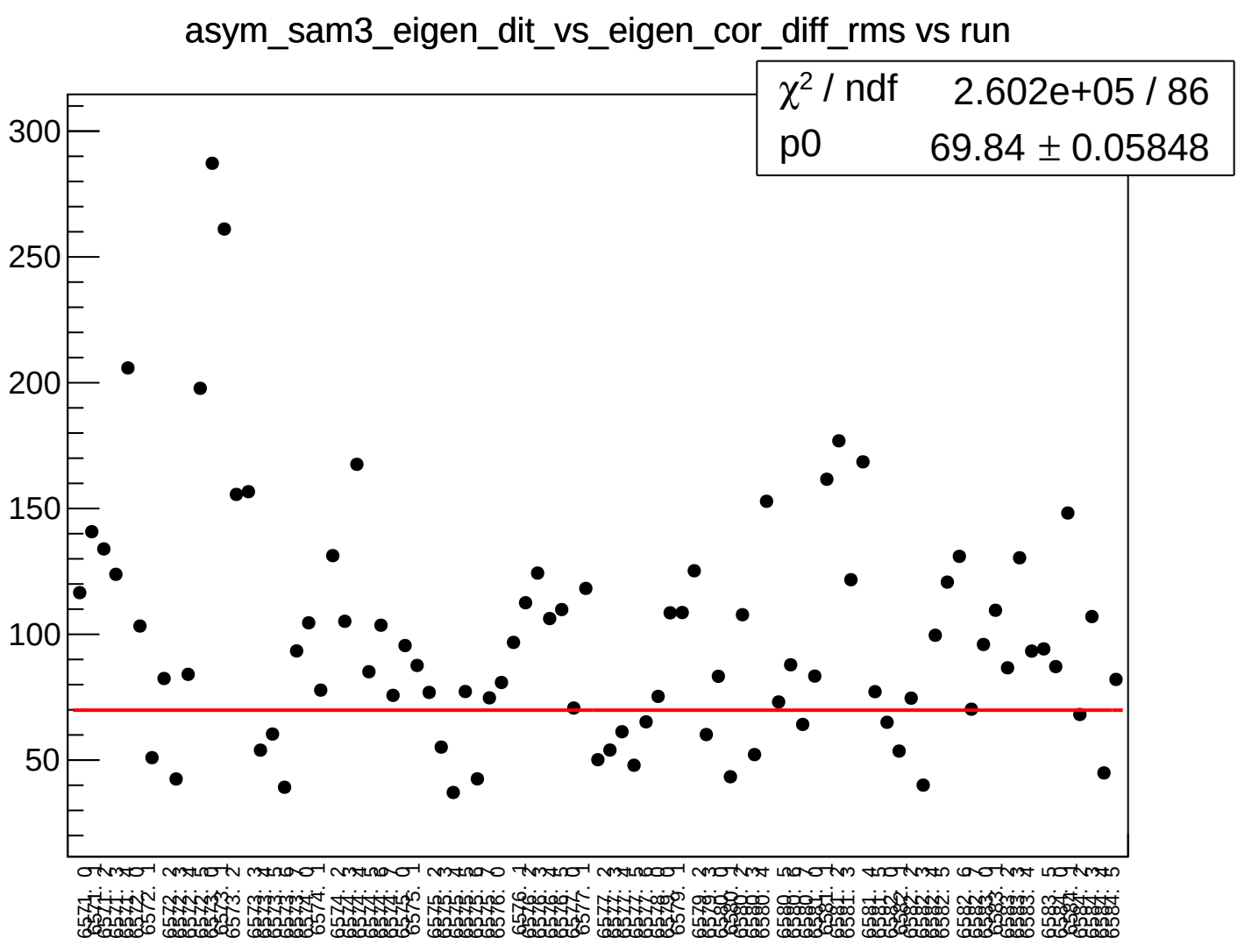

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.08 / 86
p0 0.124 ± 0.0827
pull
Entries 87
Mean 5.157
Std Dev 29.29

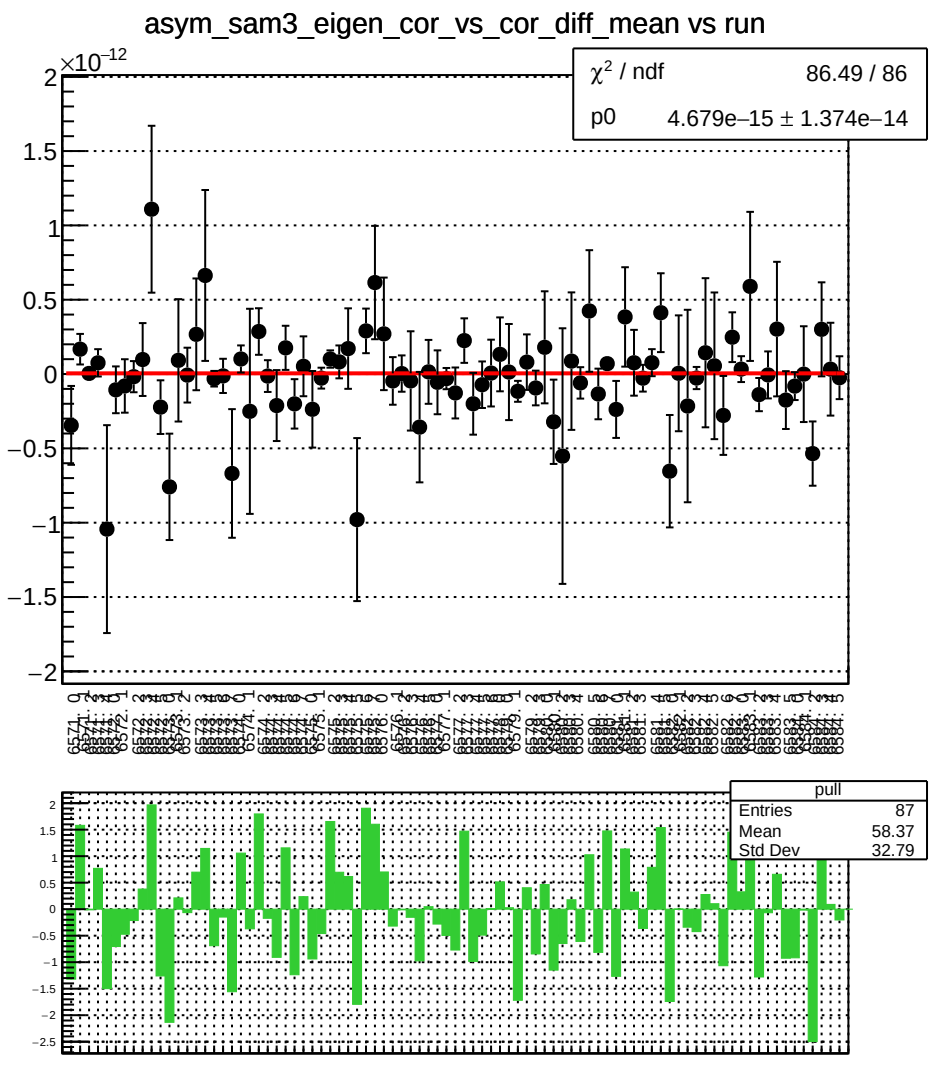

pull1D
Entries 87
Mean −0.04595
Std Dev 1.005

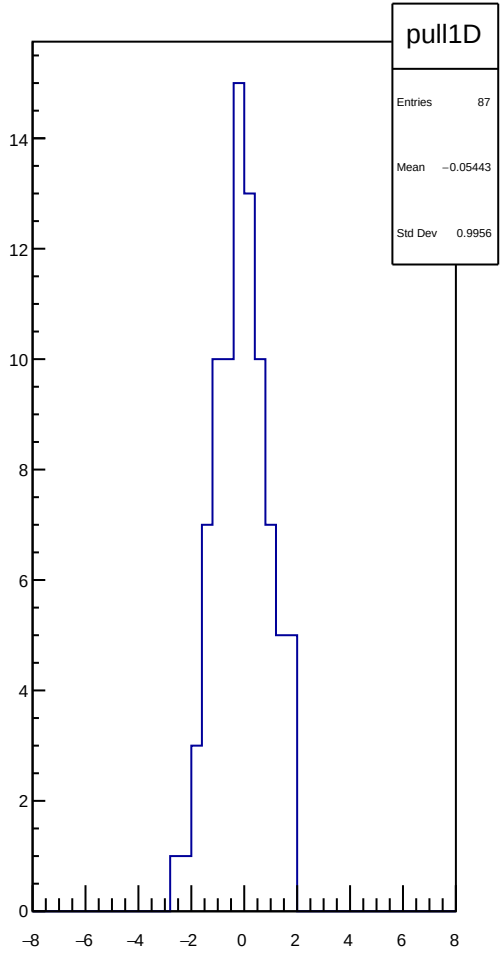

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 86
p0 69.84 ± 0.05848
300
250
200
150
100
50

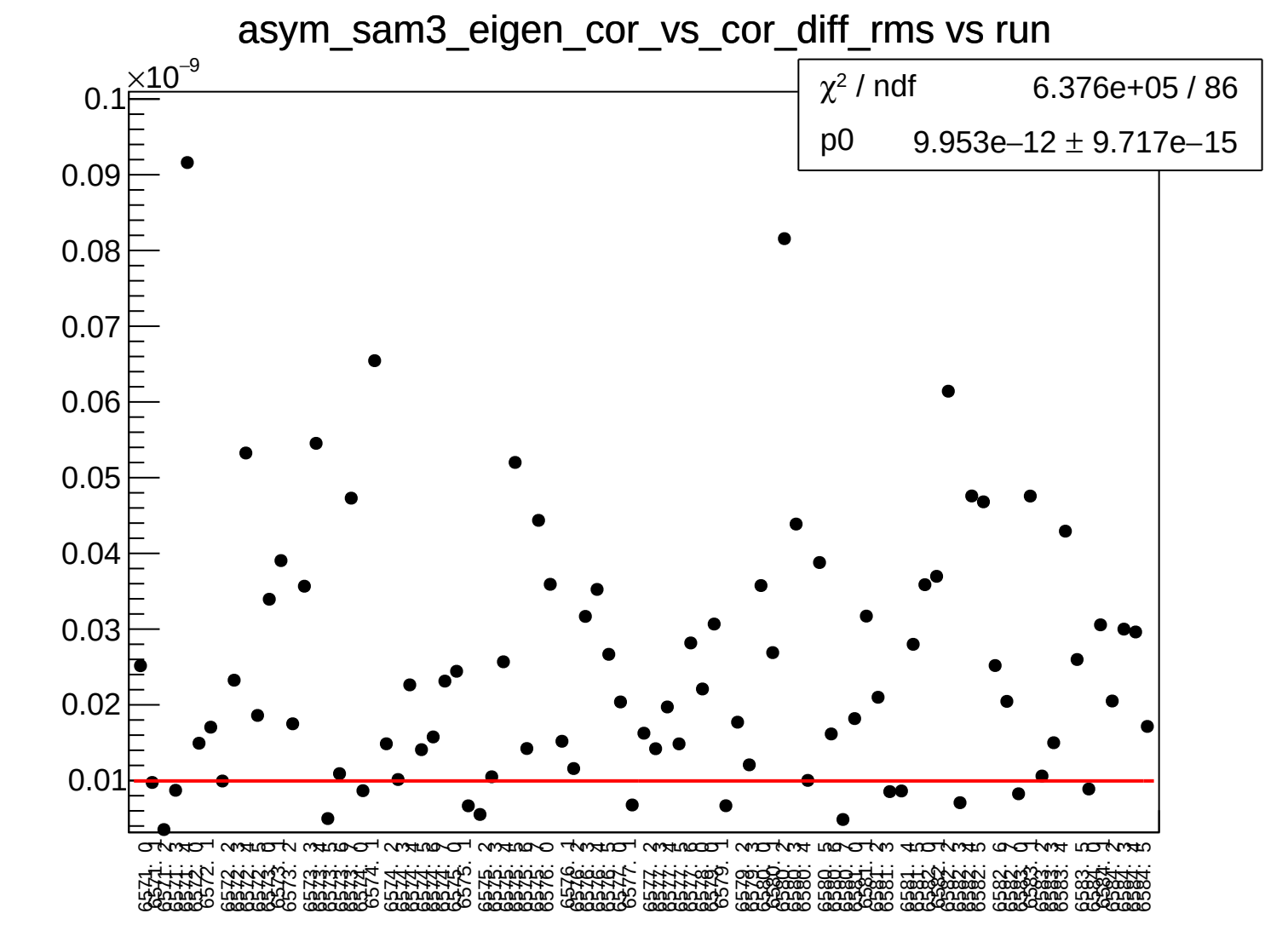

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.08 / 86
p0 0.124 ± 0.0827
pull
Entries 87
Mean 5.157
Std Dev 29.29

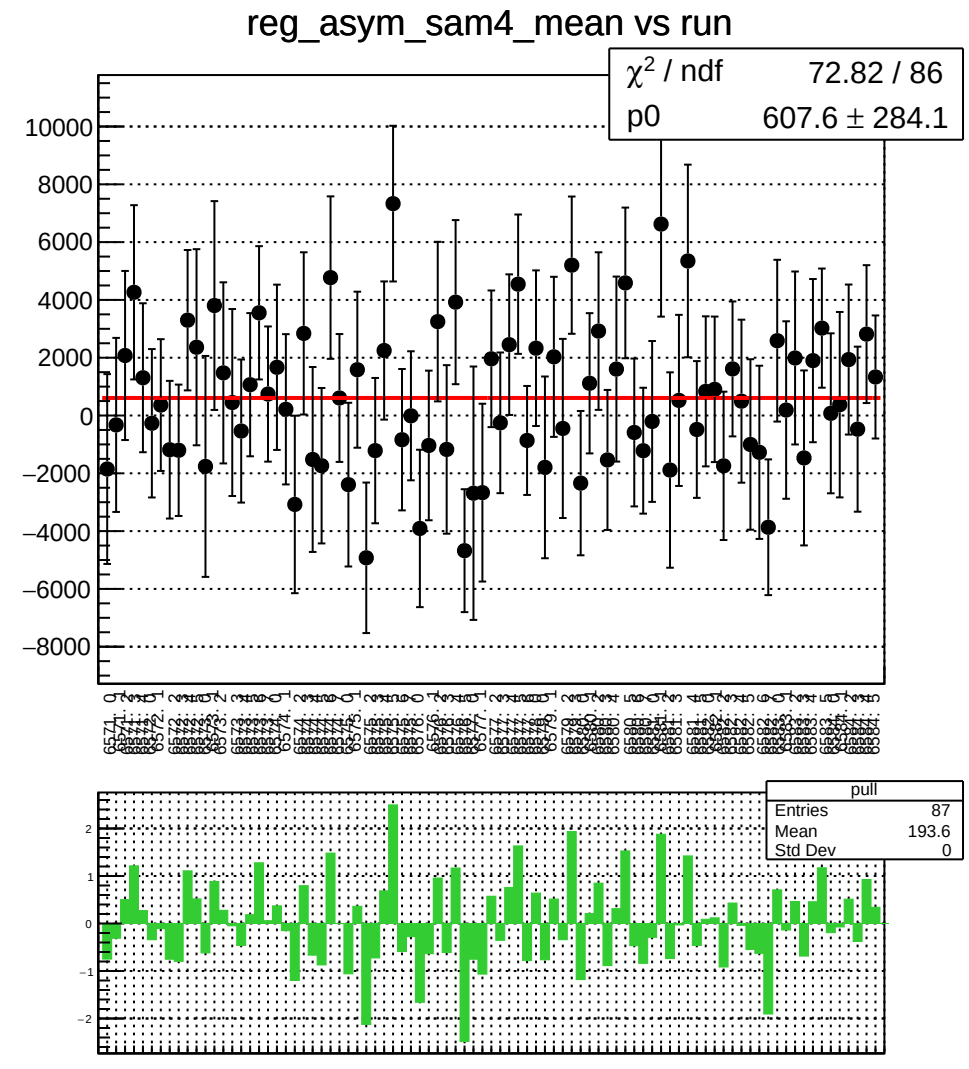

pull1D
Entries 87
Mean −0.04595
Std Dev 1.005

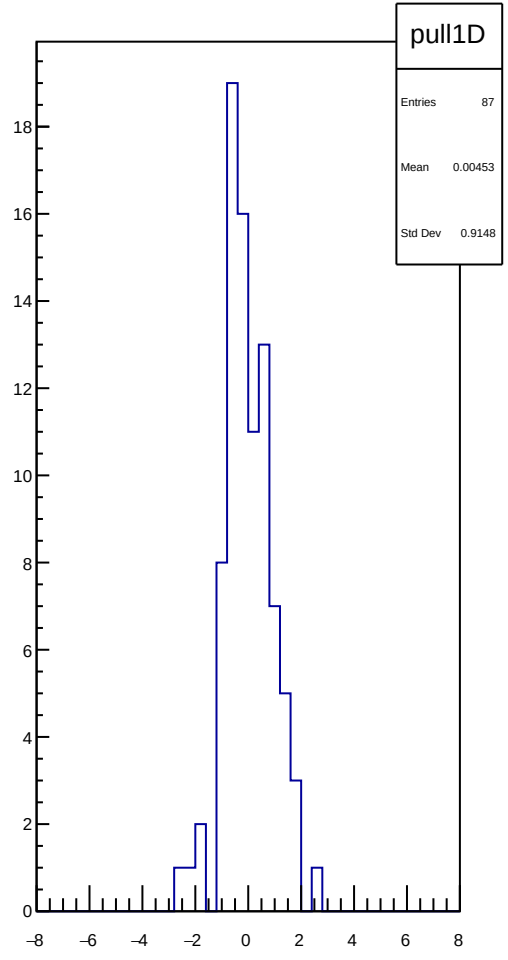

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 86
p0 69.84 ± 0.05848
300
250
200
150
100
50

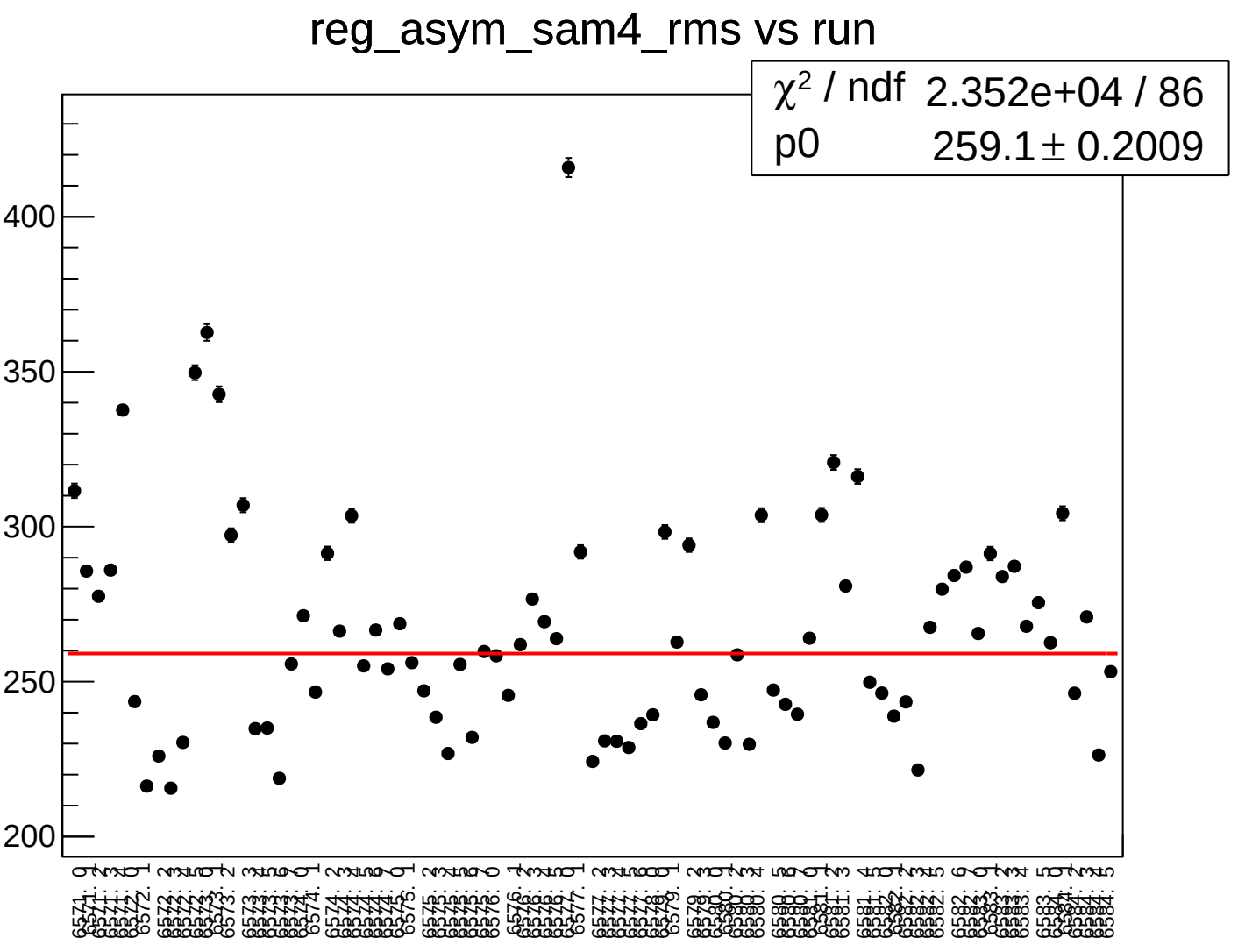

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.49 / 86
p0 4.679e−15 ± 1.374e−14
pull
Entries 87
Mean 58.37
Std Dev 32.79

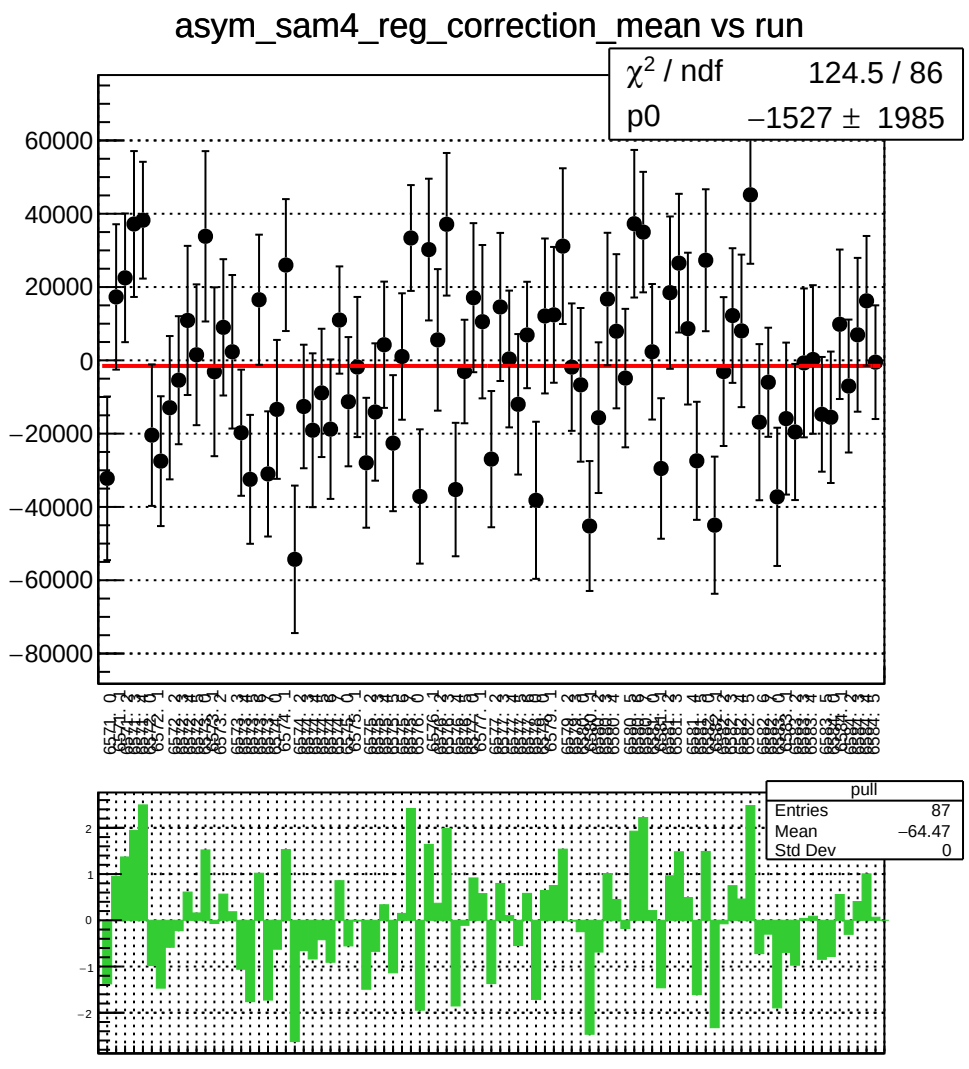

pull1D
Entries 87
Mean −0.05443
Std Dev 0.9956

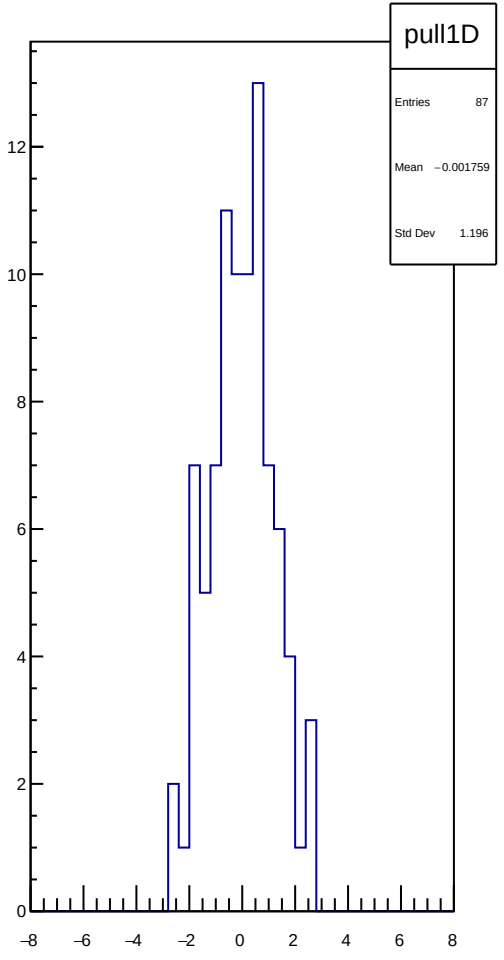

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.376e+05 / 86
p0 9.953e−12 ± 9.717e−15
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01


reg_asym_sam4_mean vs run
χ² / ndf 72.82 / 86
p0 607.6 ± 284.1
pull
Entries 87
Mean 193.6
Std Dev 0

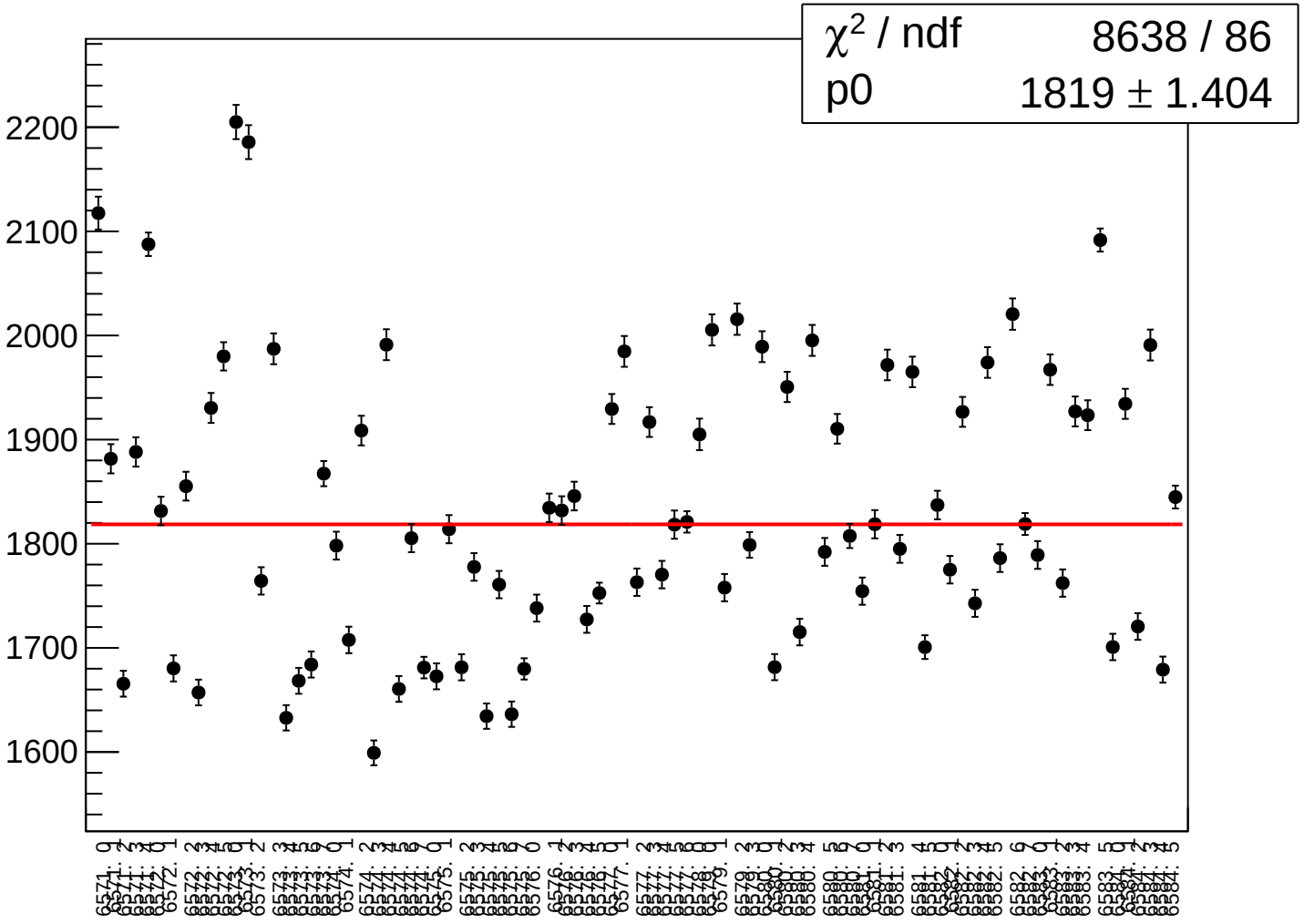

pull1D
Entries 87
Mean 0.00453
Std Dev 0.9148

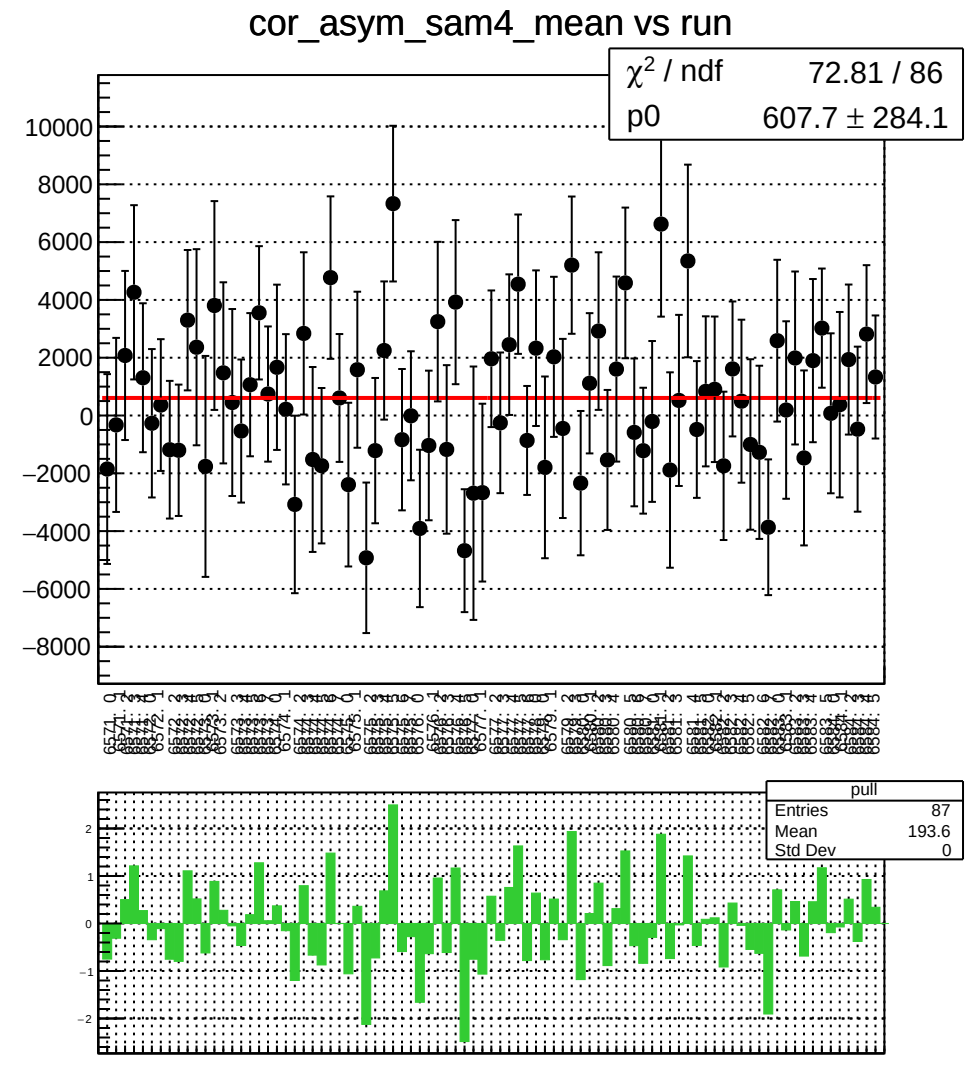

reg_asym_sam4_rms vs run
χ² / ndf 2.352e+04 / 86
p0 259.1 ± 0.2009
400
350
300
250
200

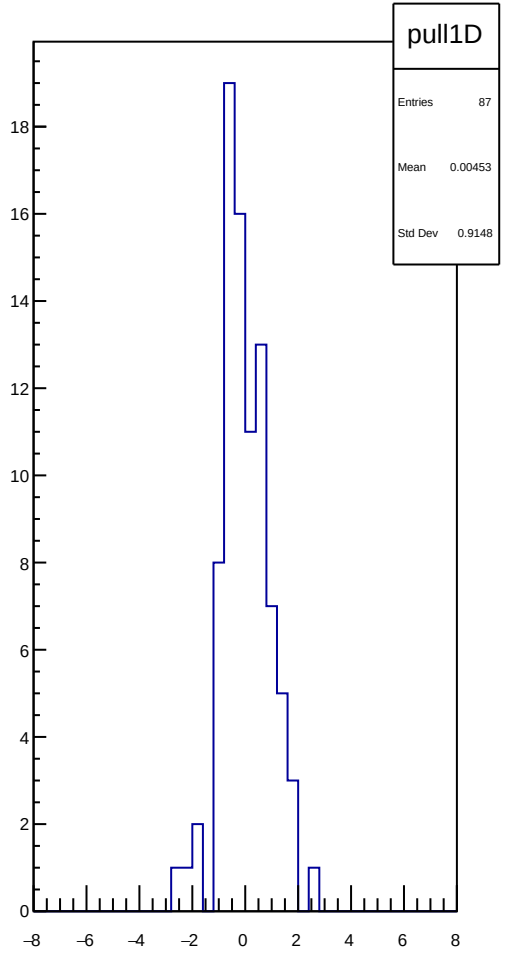

asym_sam4_reg_correction_mean vs run
χ² / ndf 124.5 / 86
p0 −1527 ± 1985
pull
Entries 87
Mean −64.47
Std Dev 0

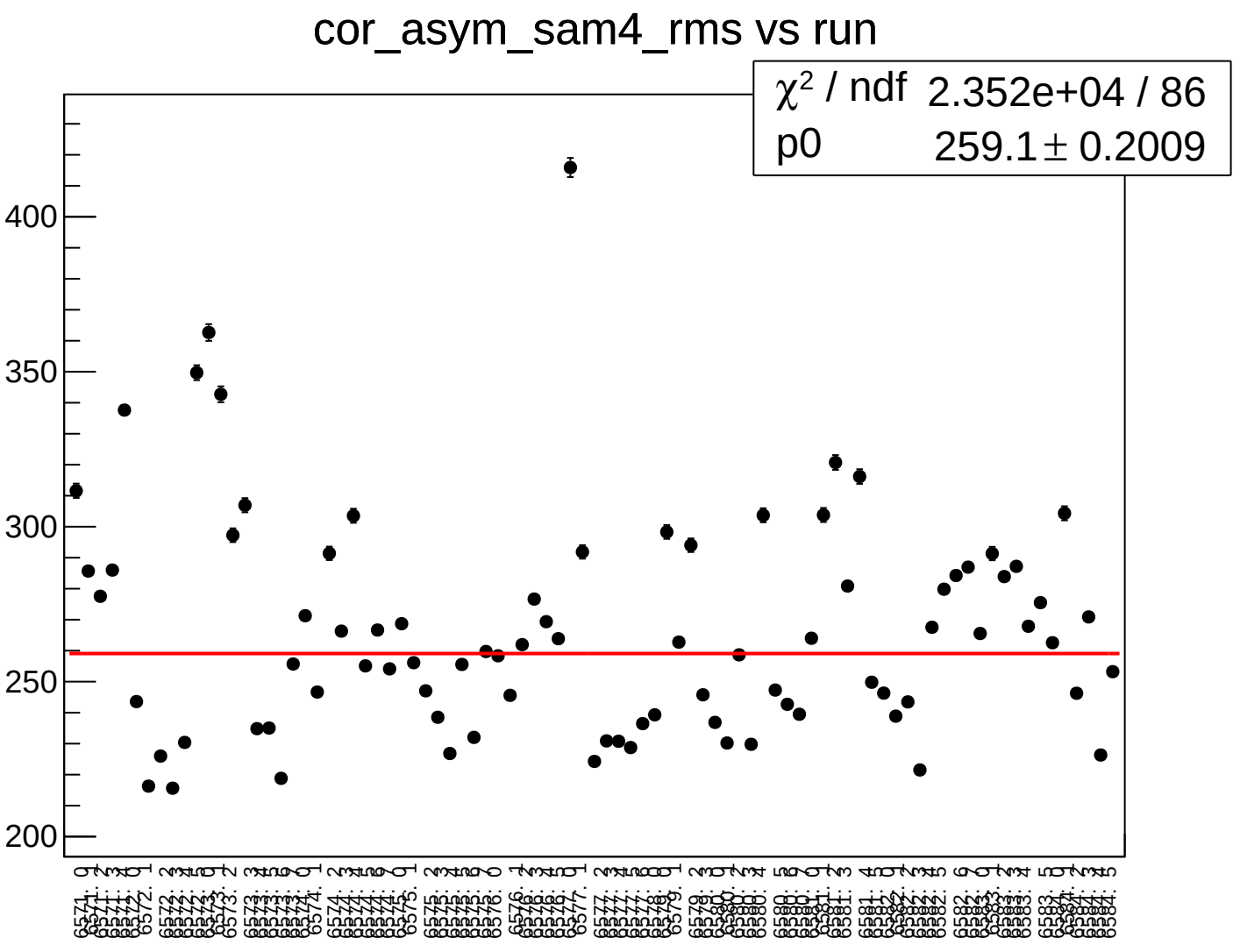

pull1D
Entries 87
Mean −0.001759
Std Dev 1.196

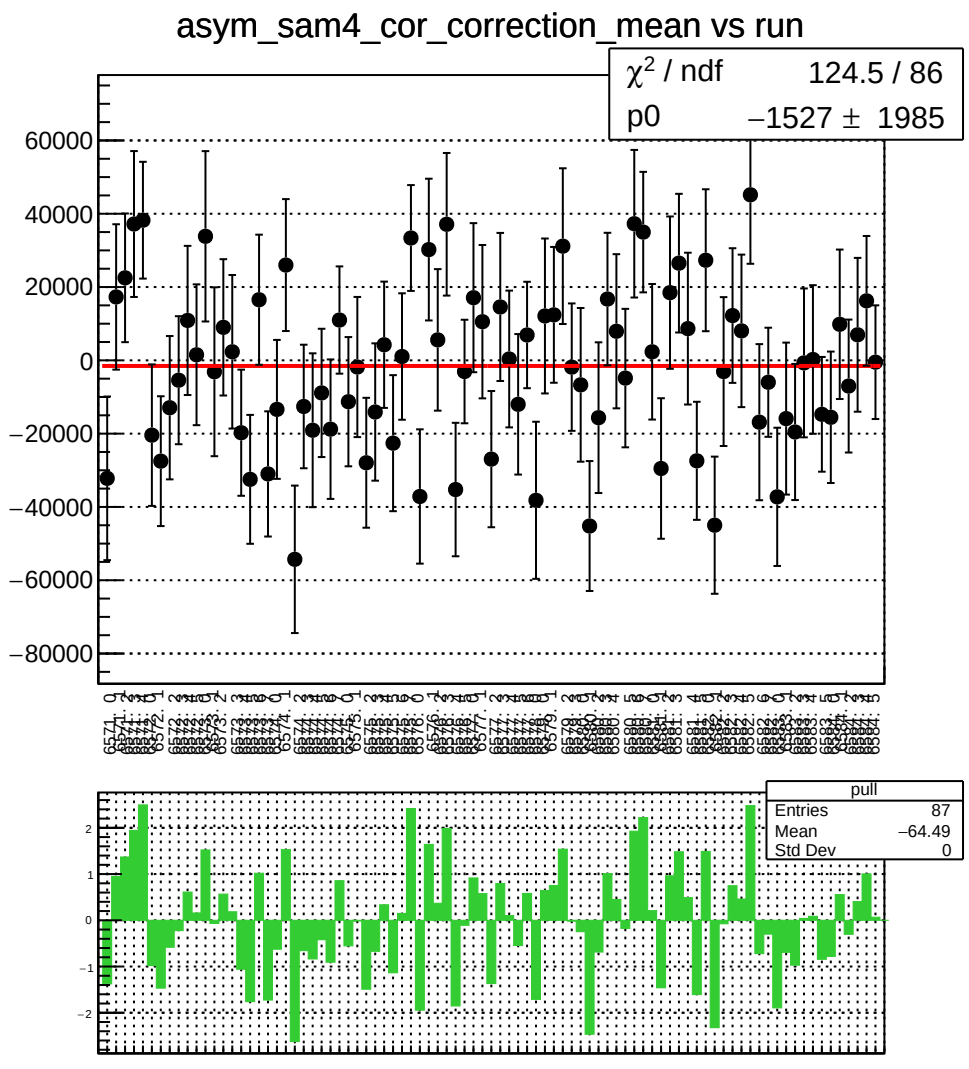
asym_sam4_reg_correction_rms vs run

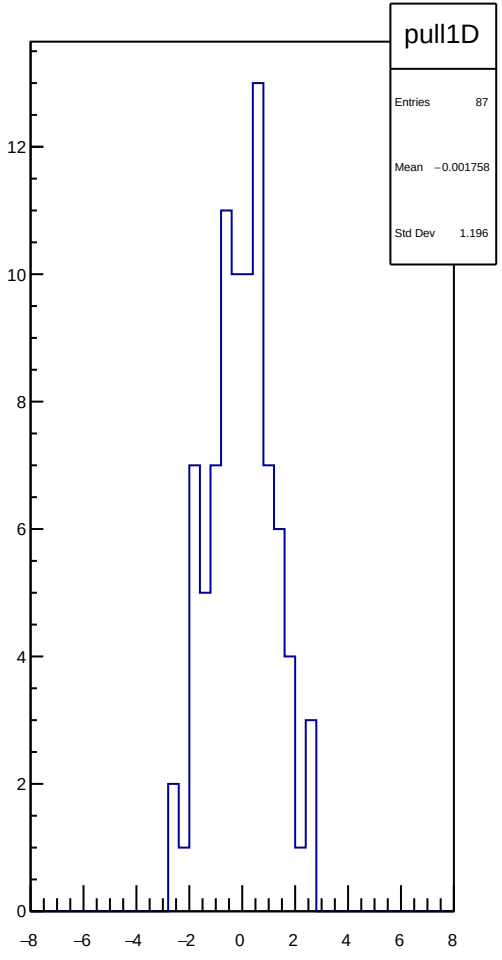


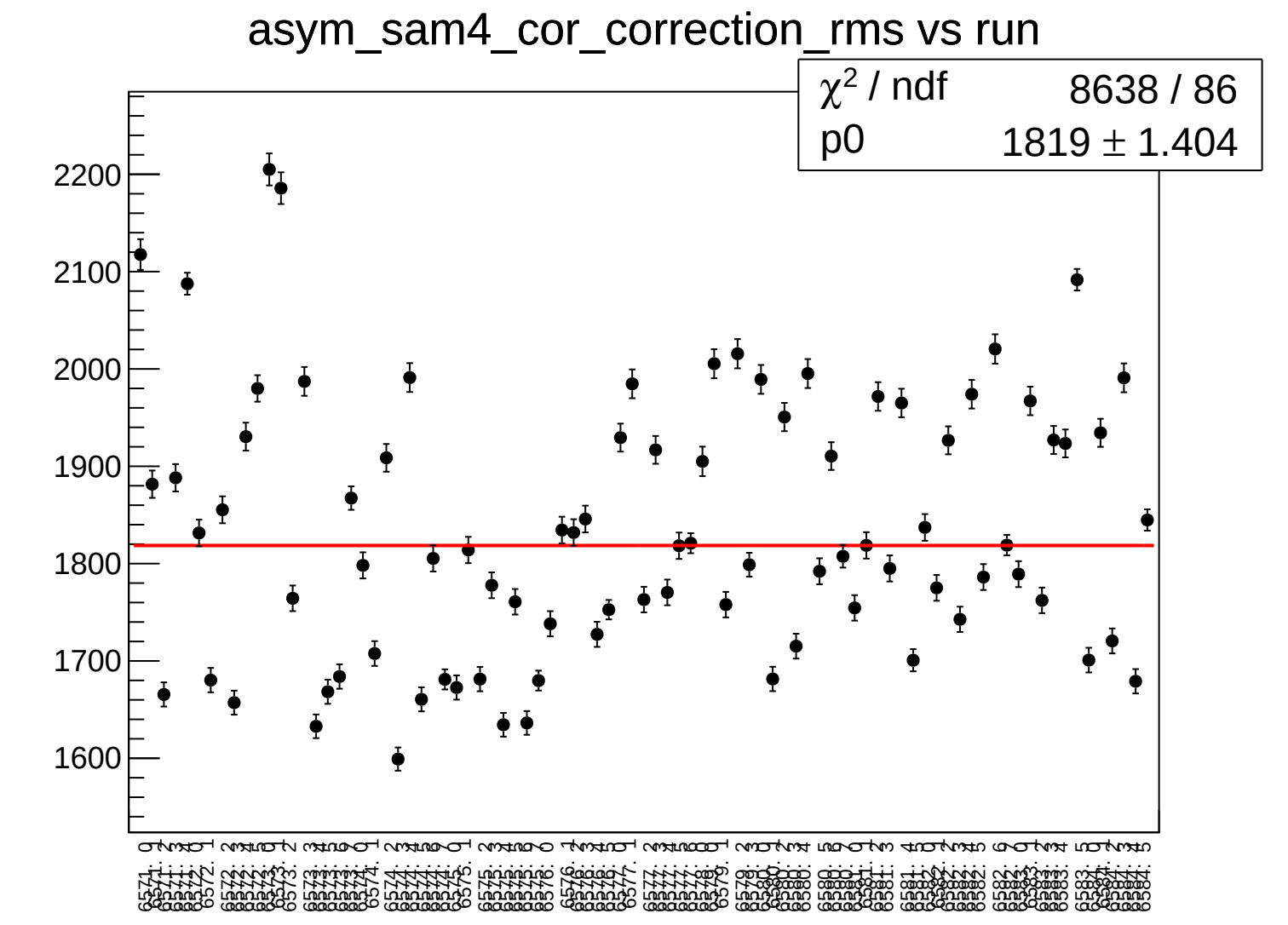

cor_asym_sam4_mean vs run
χ² / ndf 72.81 / 86
p0 607.7 ± 284.1
pull
Entries 87
Mean 193.6
Std Dev 0

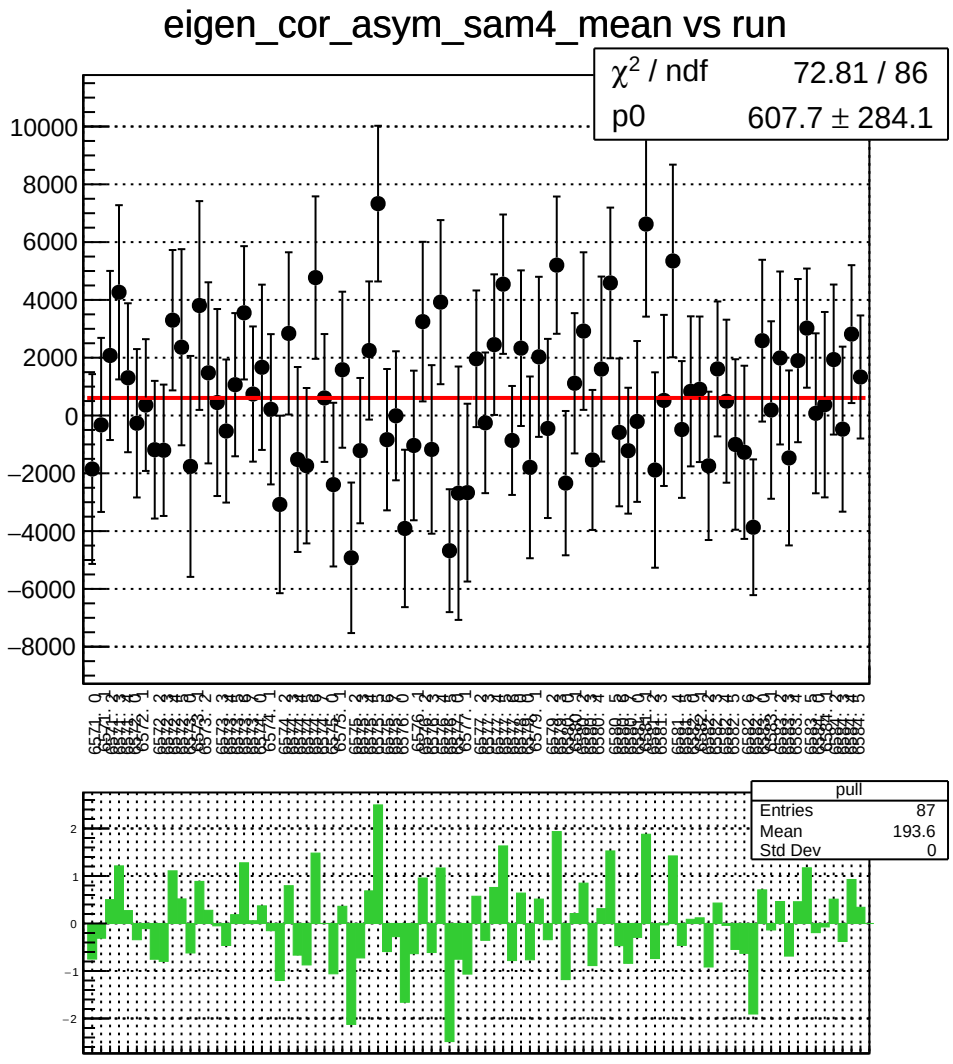

pull1D
Entries 87
Mean 0.00453
Std Dev 0.9148

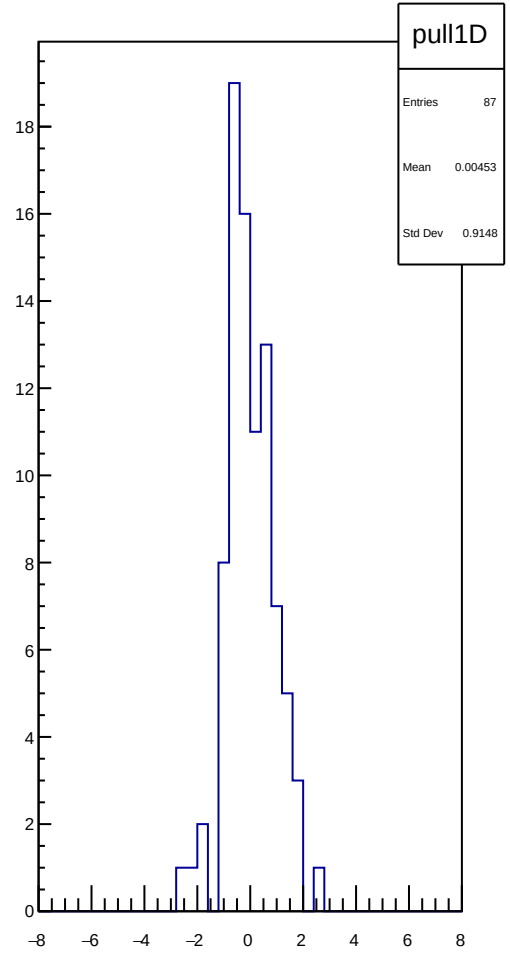

cor_asym_sam4_rms vs run
χ² / ndf 2.352e+04 / 86
p0 259.1 ± 0.2009
400
350
300
250
200

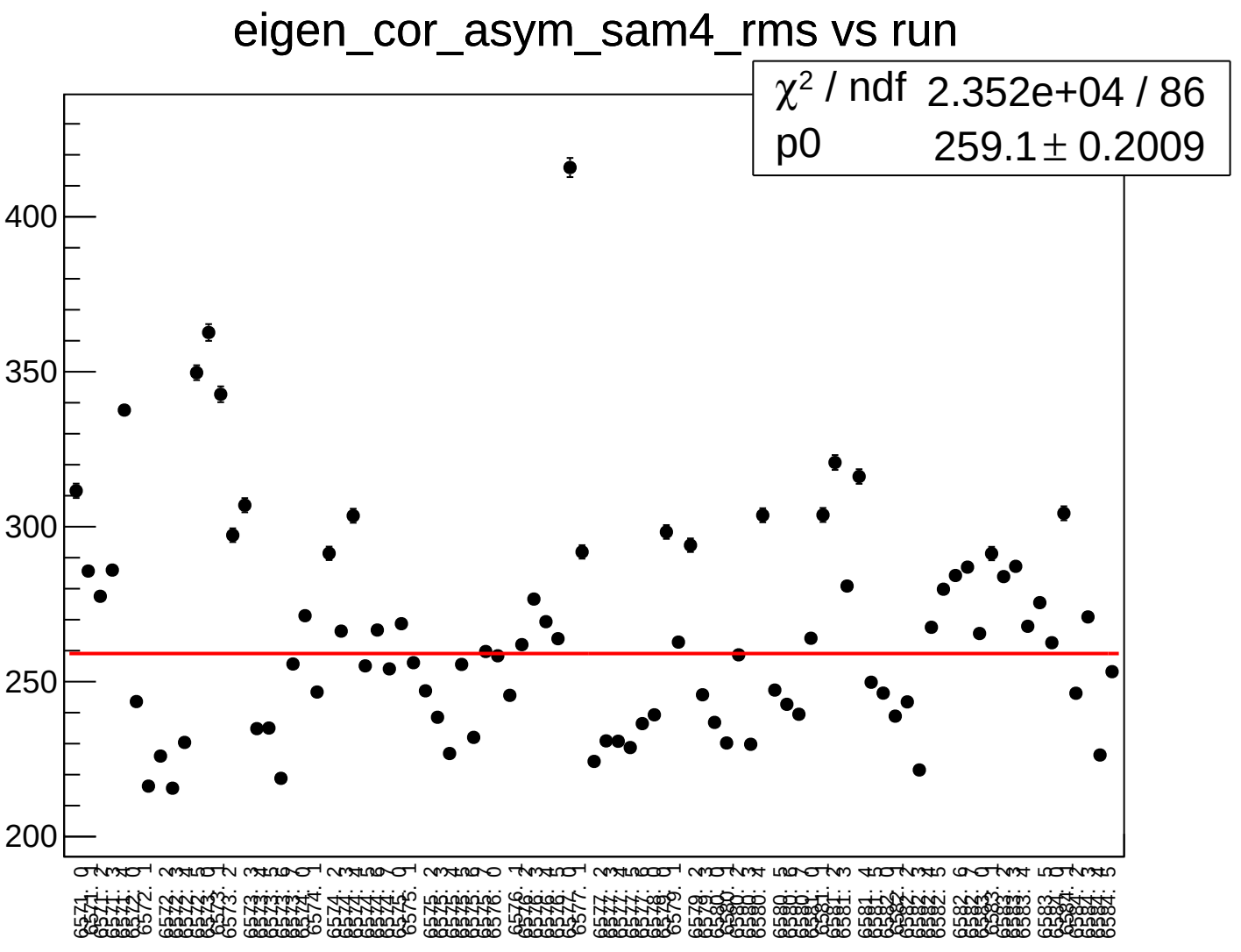

asym_sam4_cor_correction_mean vs run
χ² / ndf 124.5 / 86
p0 −1527 ± 1985
pull
Entries 87
Mean −64.49
Std Dev 0

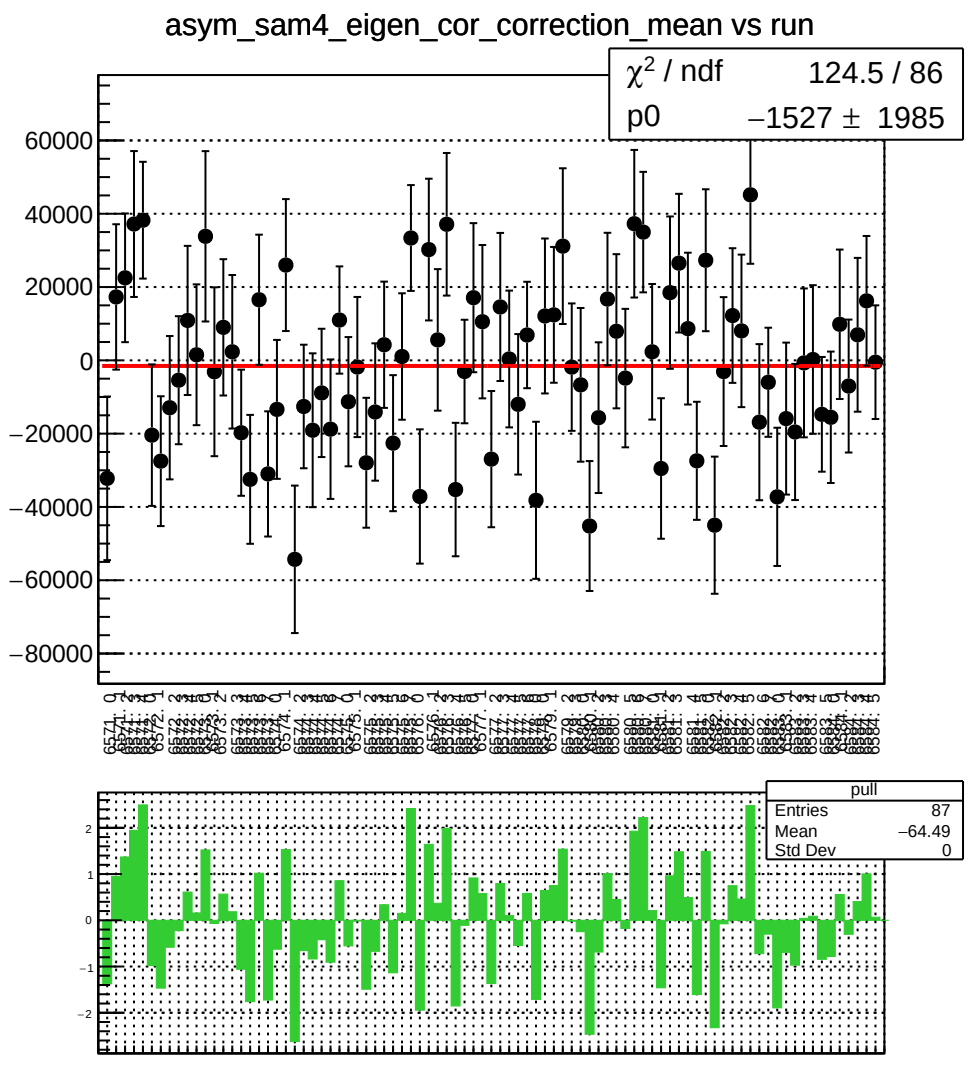

pull1D
Entries 87
Mean −0.001758
Std Dev 1.196

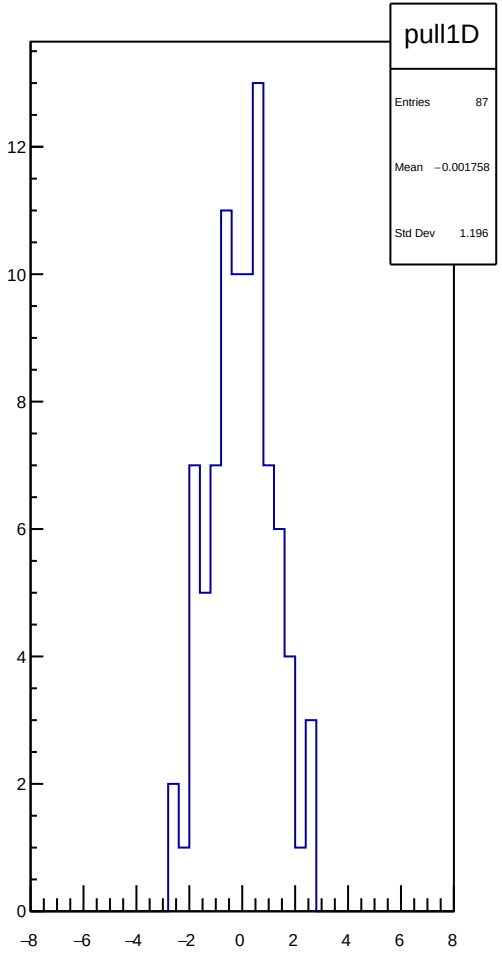

asym_sam4_cor_correction_rms vs run
χ² / ndf 8638 / 86
p0 1819 ± 1.404
2200
2100
2000
1900
1800
1700
1600

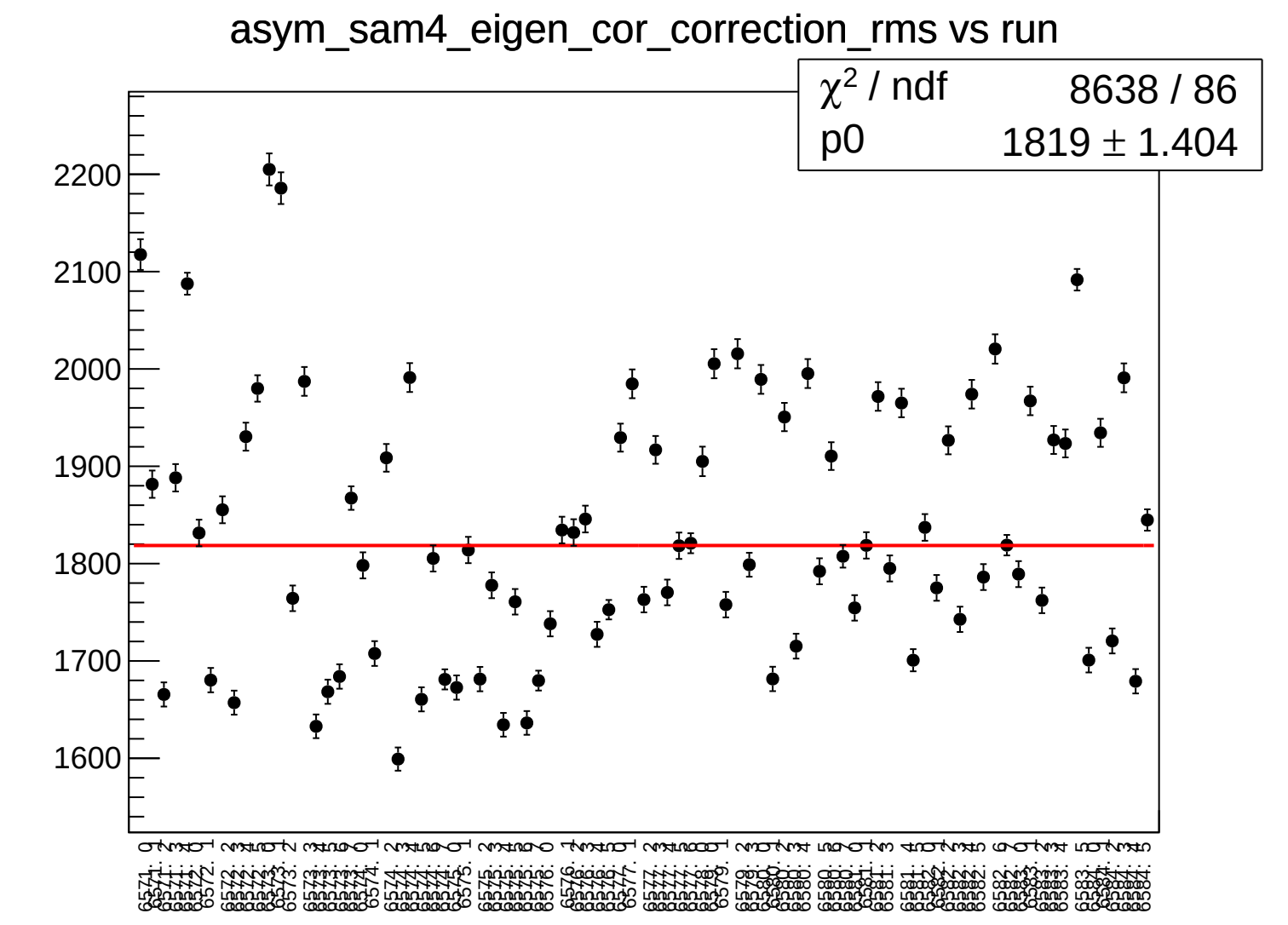

eigen_cor_asym_sam4_mean vs run
χ^2 / ndf 72.81 / 86
p0 607.7 ± 284.1
pull
Entries 87
Mean 193.6
Std Dev 0

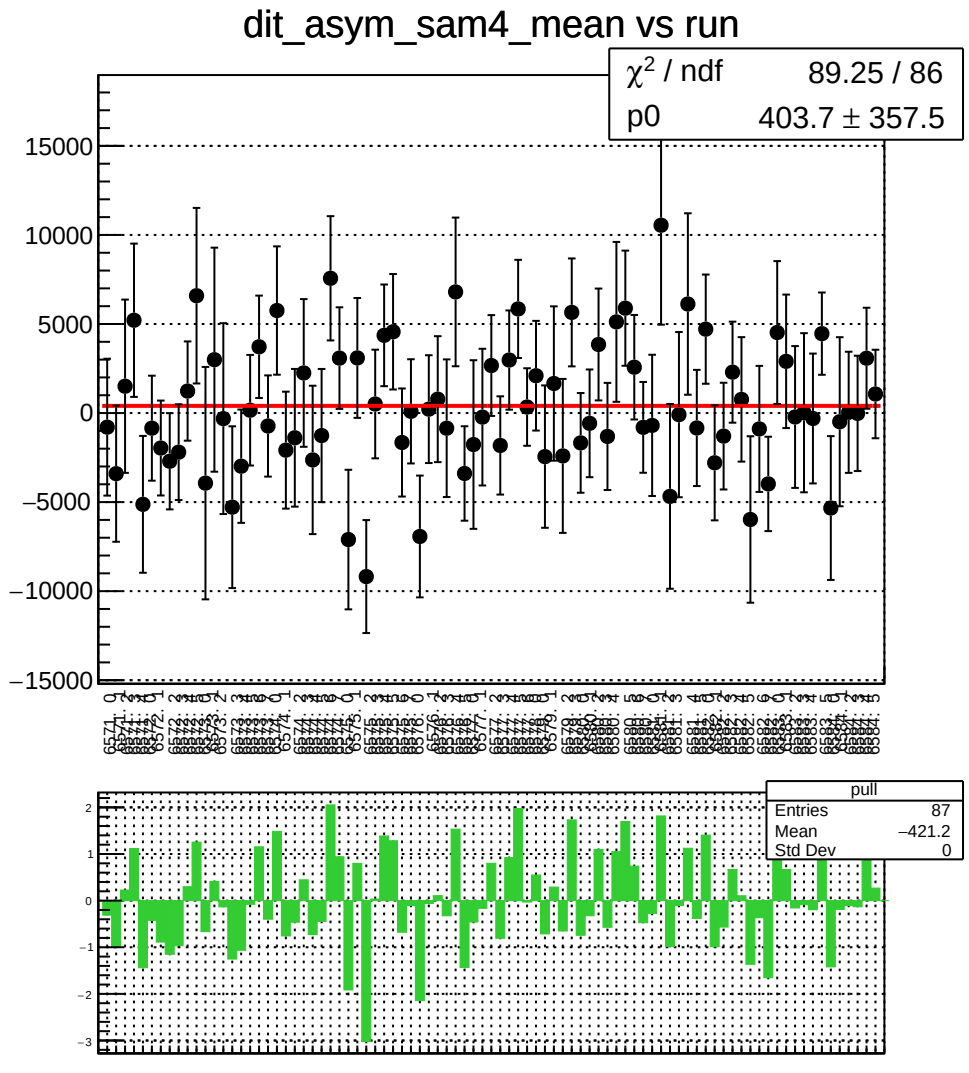

pull1D
Entries 87
Mean 0.00453
Std Dev 0.9148

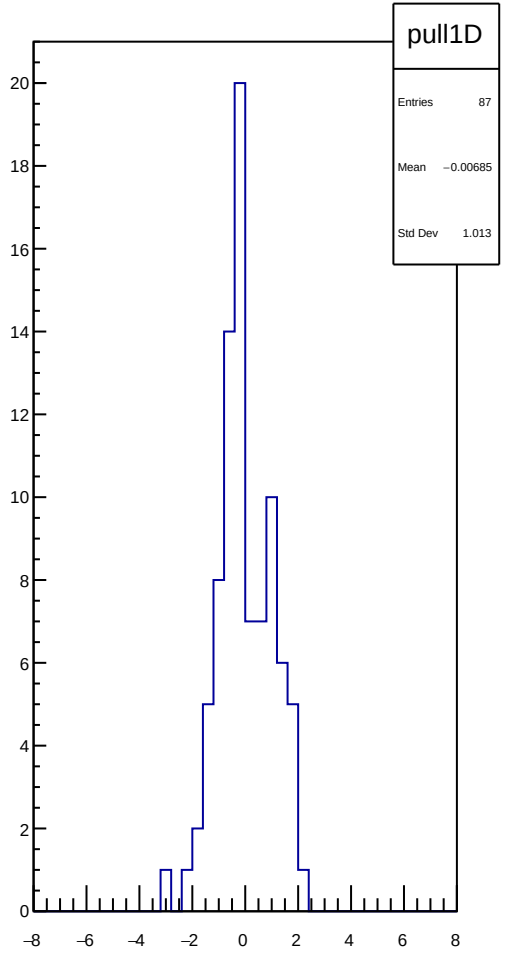

eigen_cor_asym_sam4_rms vs run
χ² / ndf 2.352e+04 / 86
p0 259.1 ± 0.2009
400
350
300
250
200

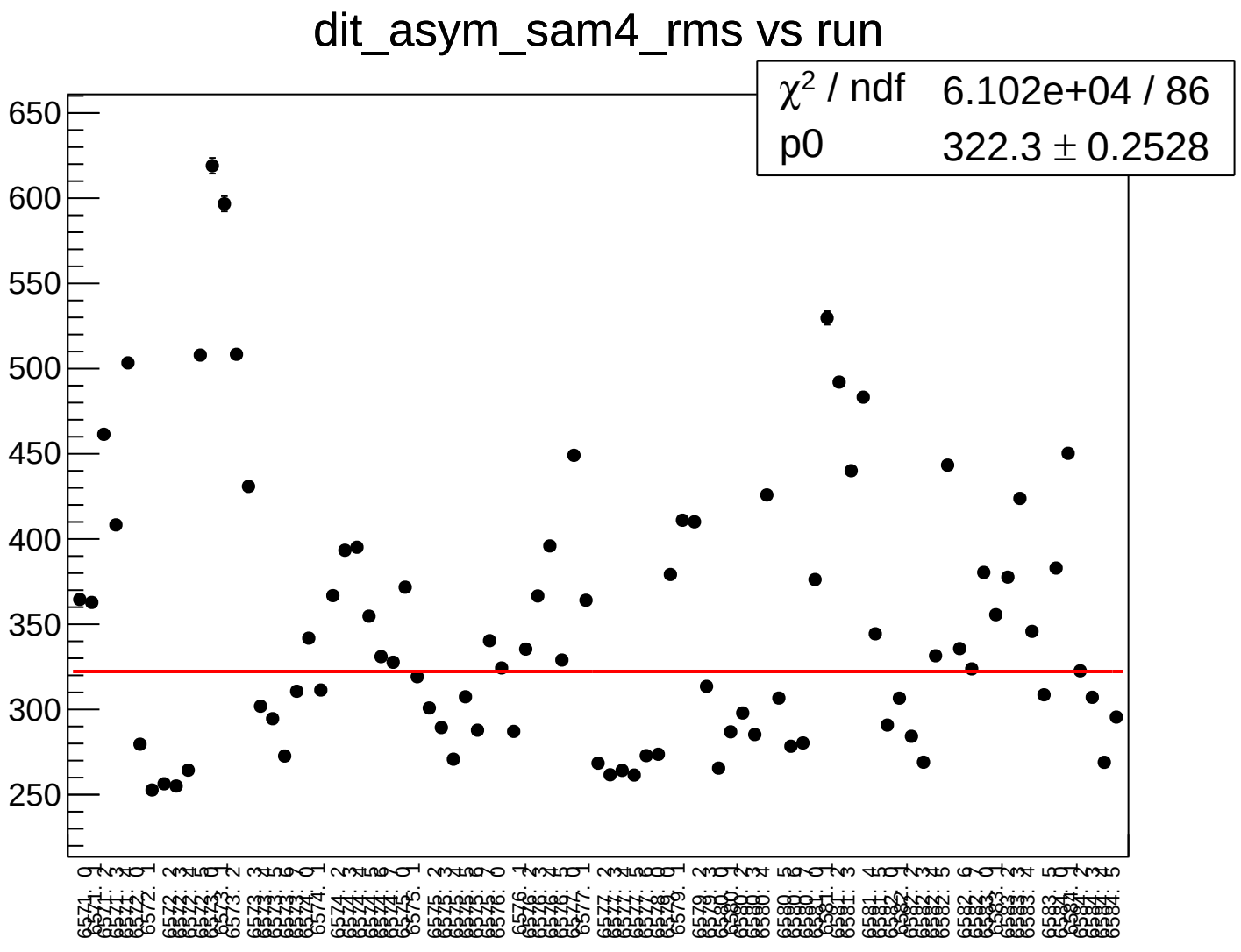

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 124.5 / 86
p0 −1527 ± 1985
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −64.49
Std Dev 0
2
1
0
−1
−2

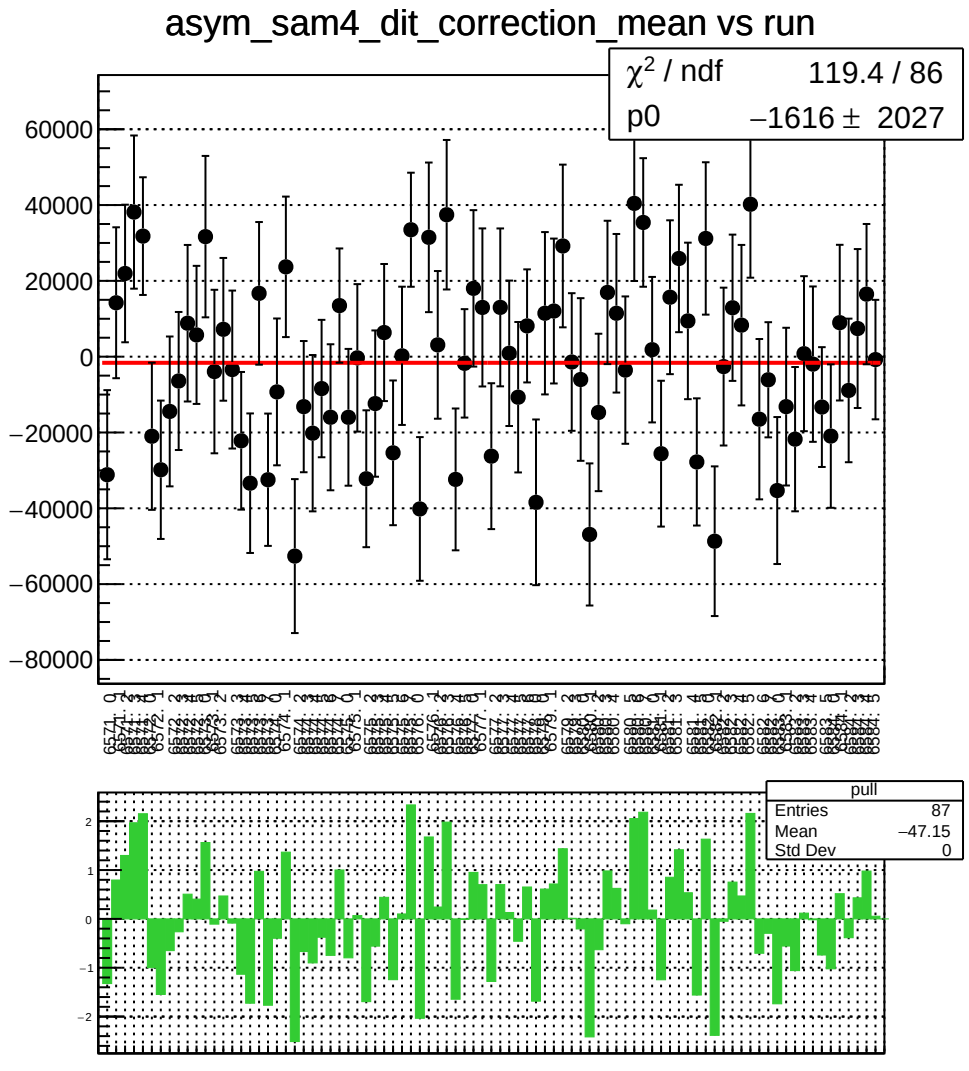

pull1D
Entries 87
Mean −0.001758
Std Dev 1.196
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

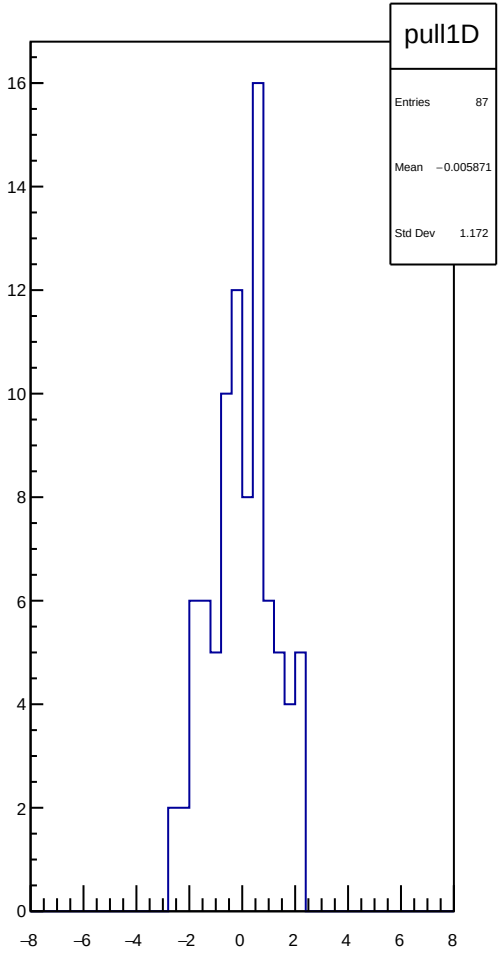

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 8638 / 86
p0 1819 ± 1.404
2200
2100
2000
1900
1800
1700
1600

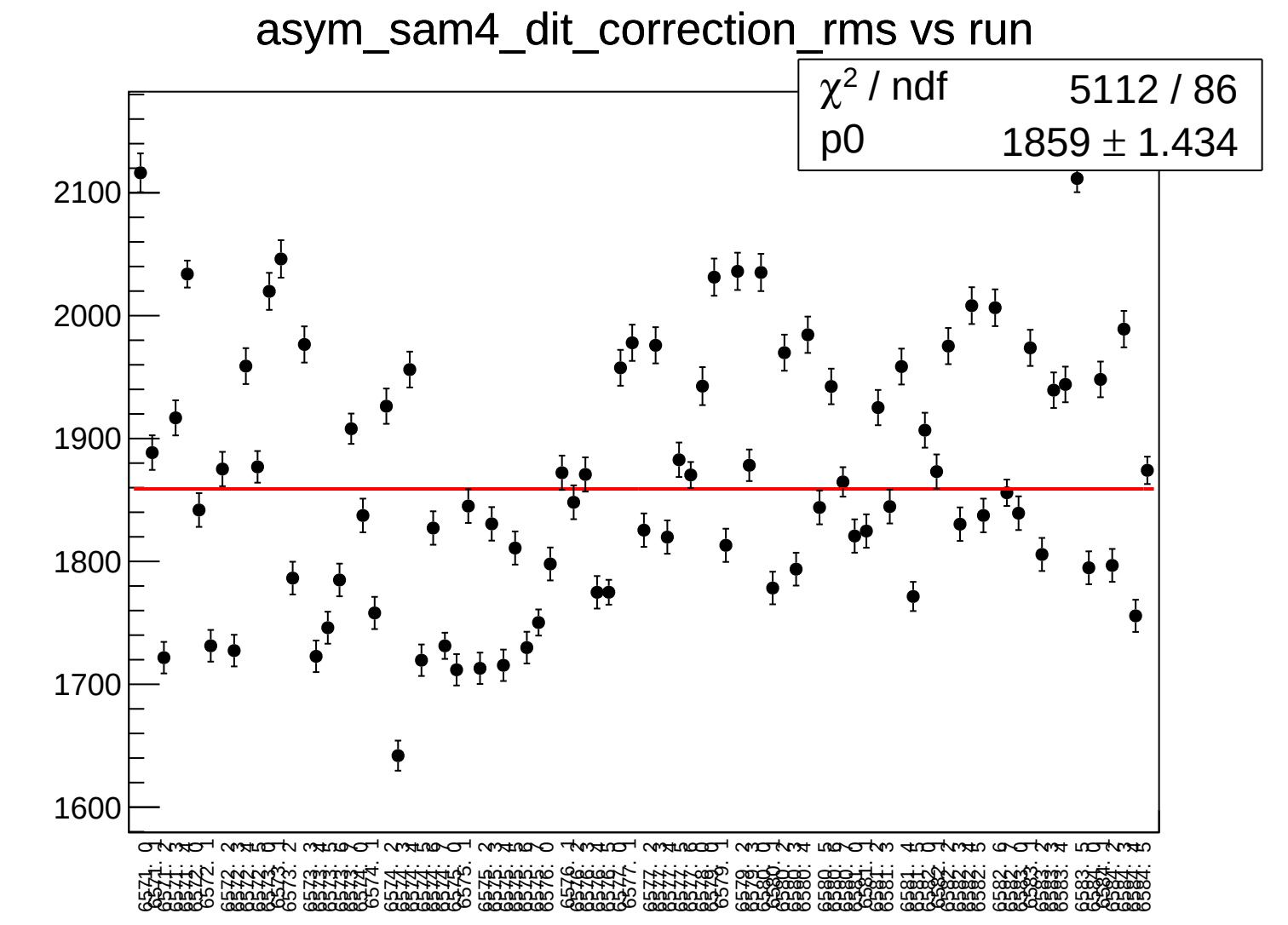

dit_asym_sam4_mean vs run
χ² / ndf 89.25 / 86
p0 403.7 ± 357.5
pull
Entries 87
Mean −421.2
Std Dev 0

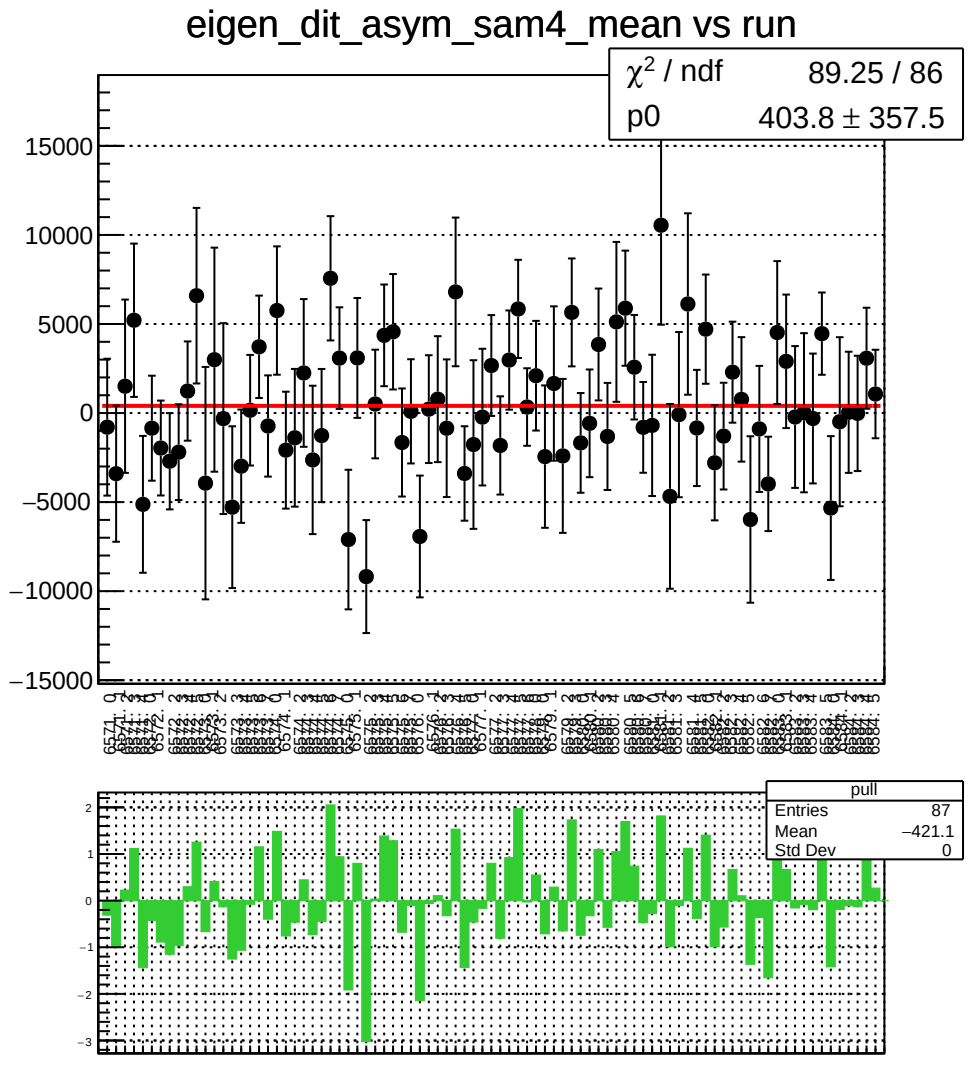

pull1D
Entries 87
Mean −0.00685
Std Dev 1.013

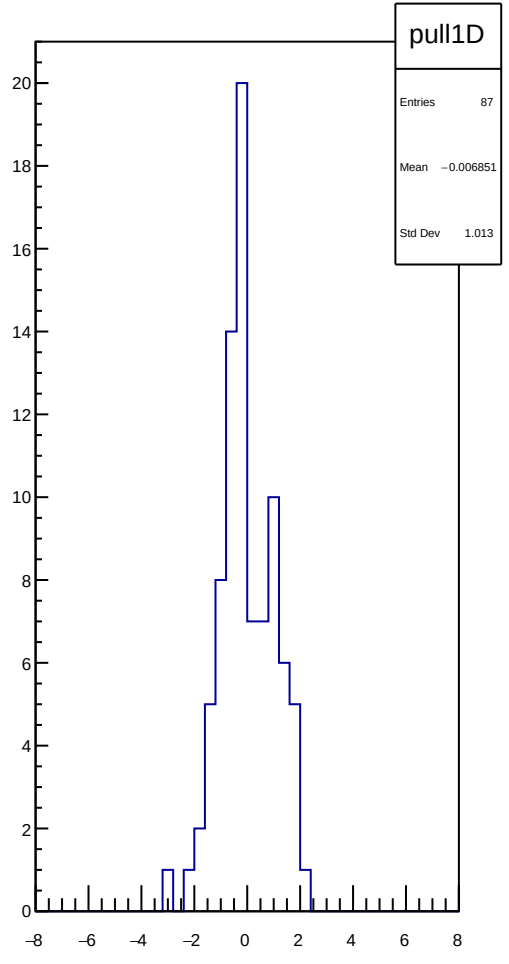

dit_asym_sam4_rms vs run
χ² / ndf 6.102e+04 / 86
p0 322.3 ± 0.2528
650
600
550
500
450
400
350
300
250

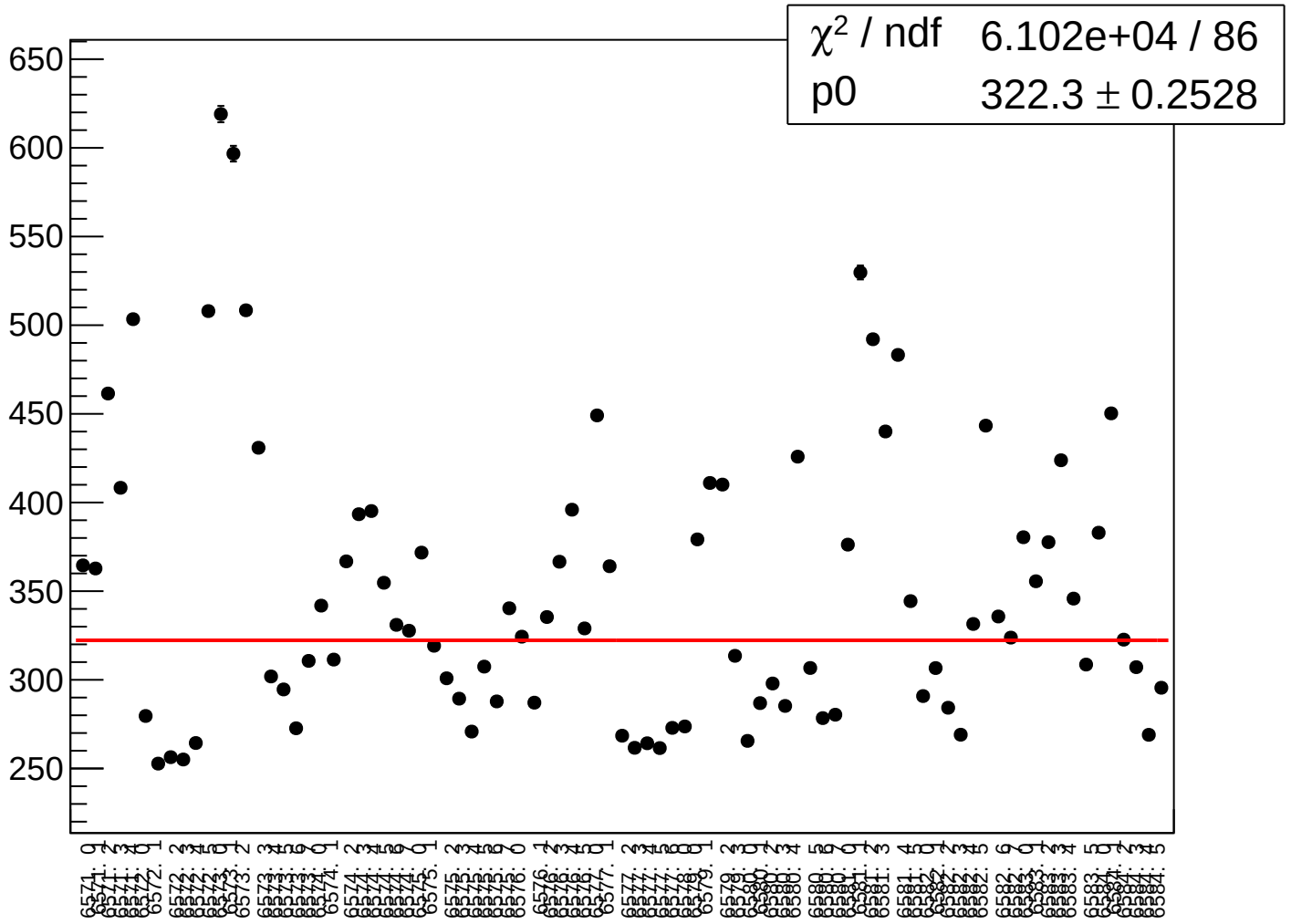

asym_sam4_dit_correction_mean vs run
χ² / ndf 119.4 / 86
p0 −1616 ± 2027
pull
Entries 87
Mean −47.15
Std Dev 0

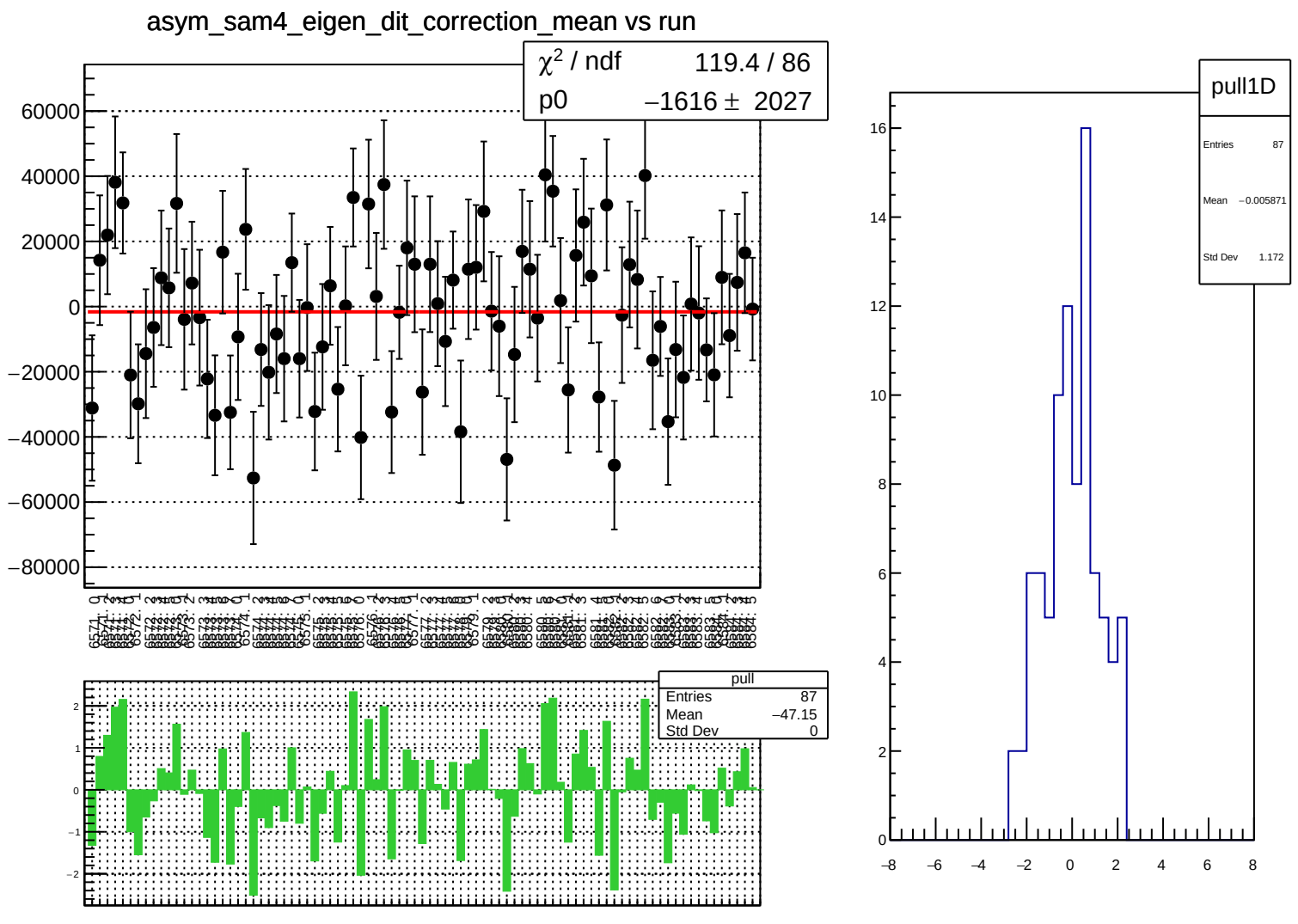

pull1D
Entries 87
Mean −0.005871
Std Dev 1.172

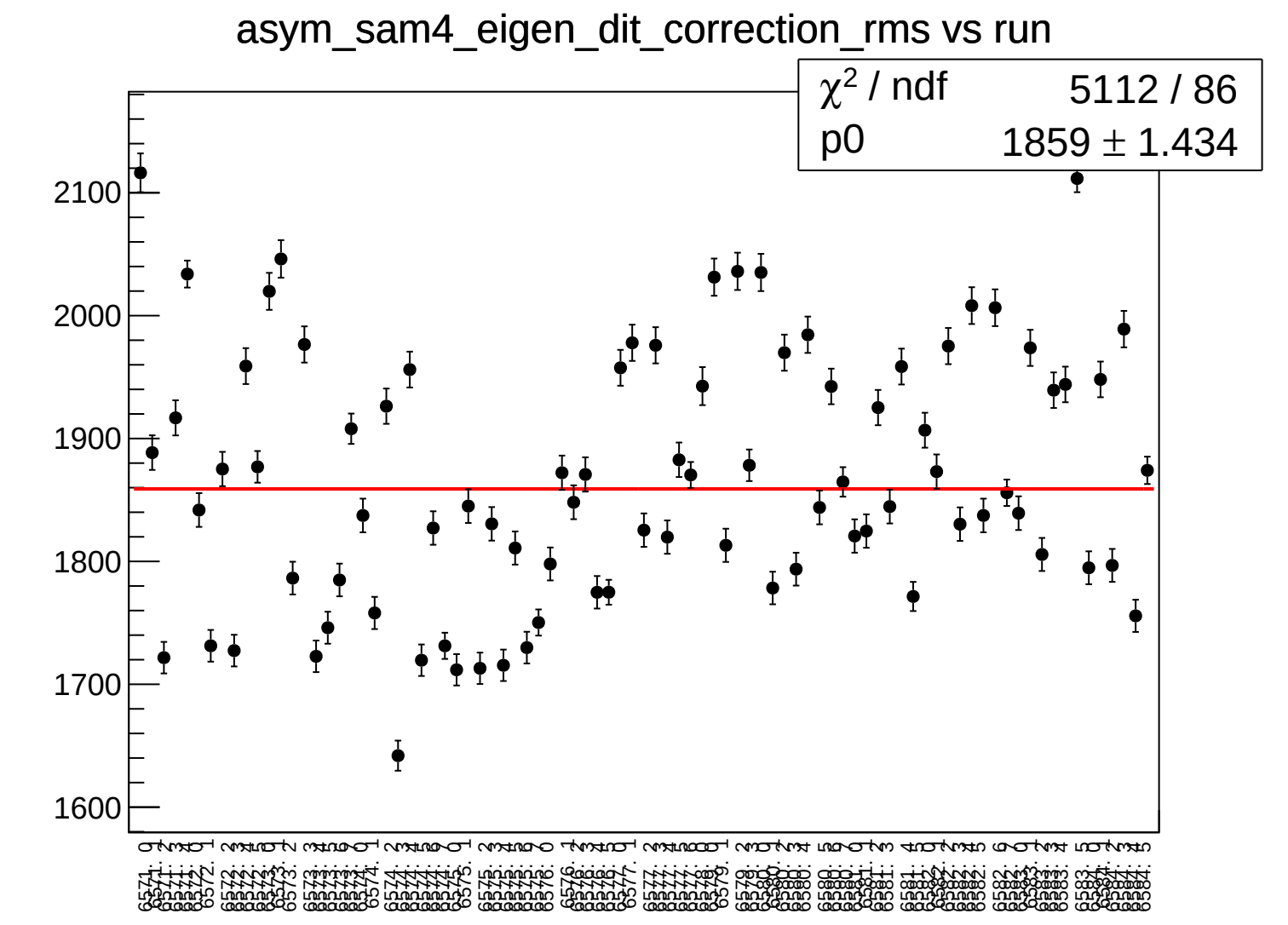

asym_sam4_dit_correction_rms vs run
χ² / ndf 5112 / 86
p0 1859 ± 1.434
2100
2000
1900
1800
1700
1600

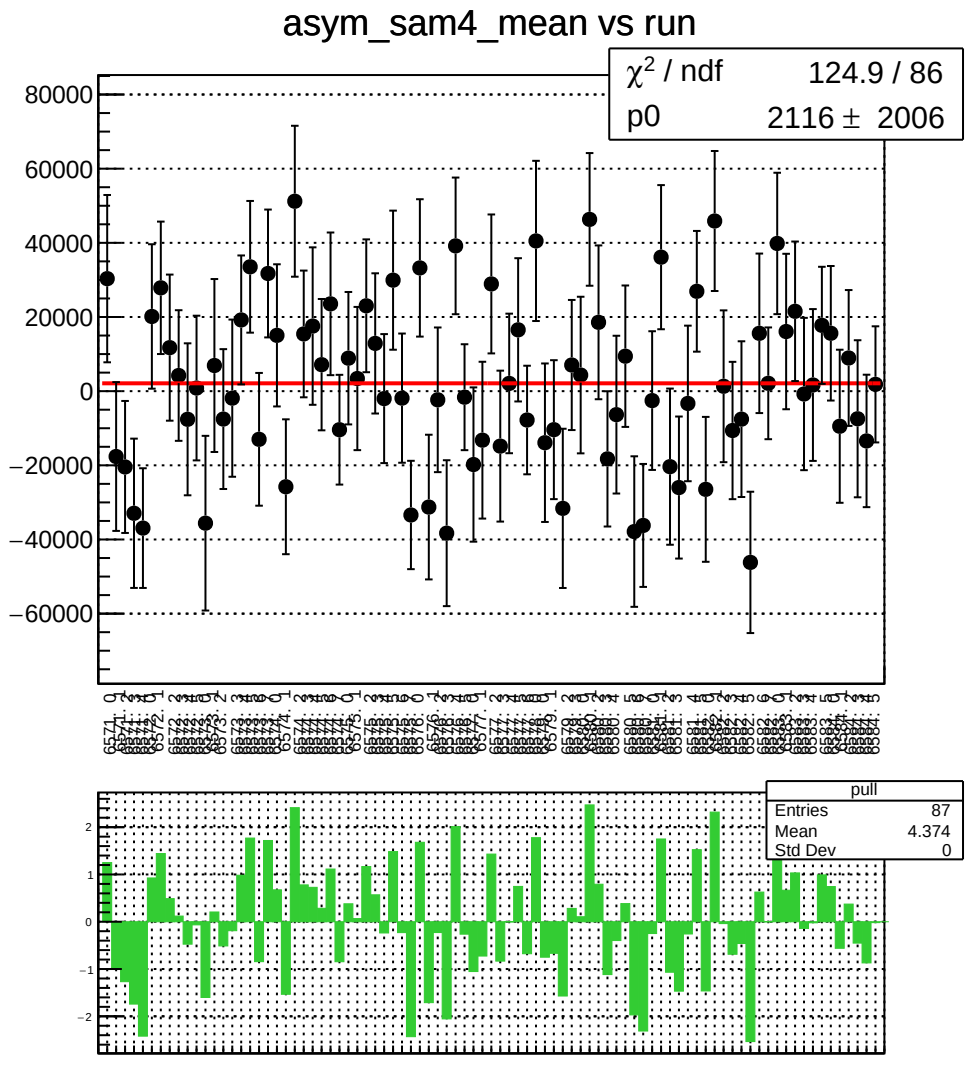

eigen_dit_asym_sam4_mean vs run
χ² / ndf 89.25 / 86
p0 403.8 ± 357.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −421.1
Std Dev 0
2
1
0
−1
−2
−3

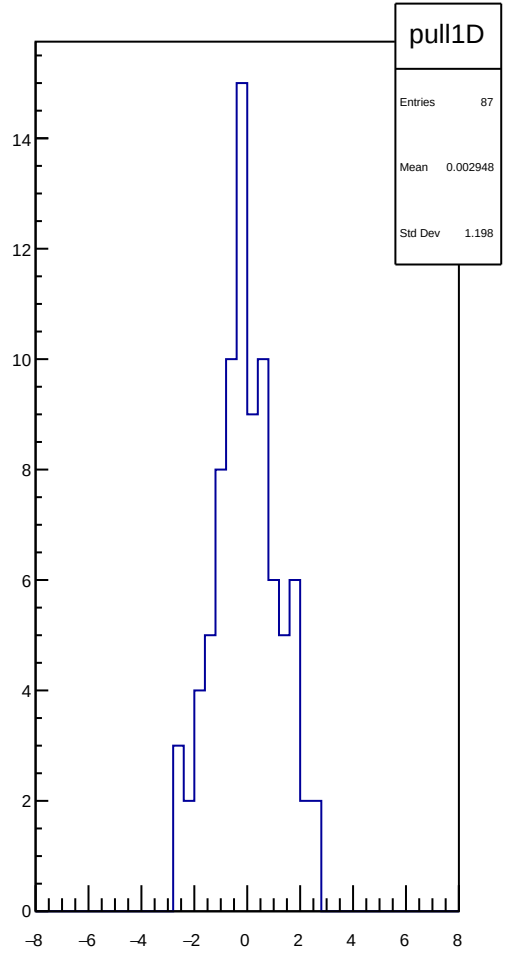

pull1D
Entries 87
Mean −0.006851
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

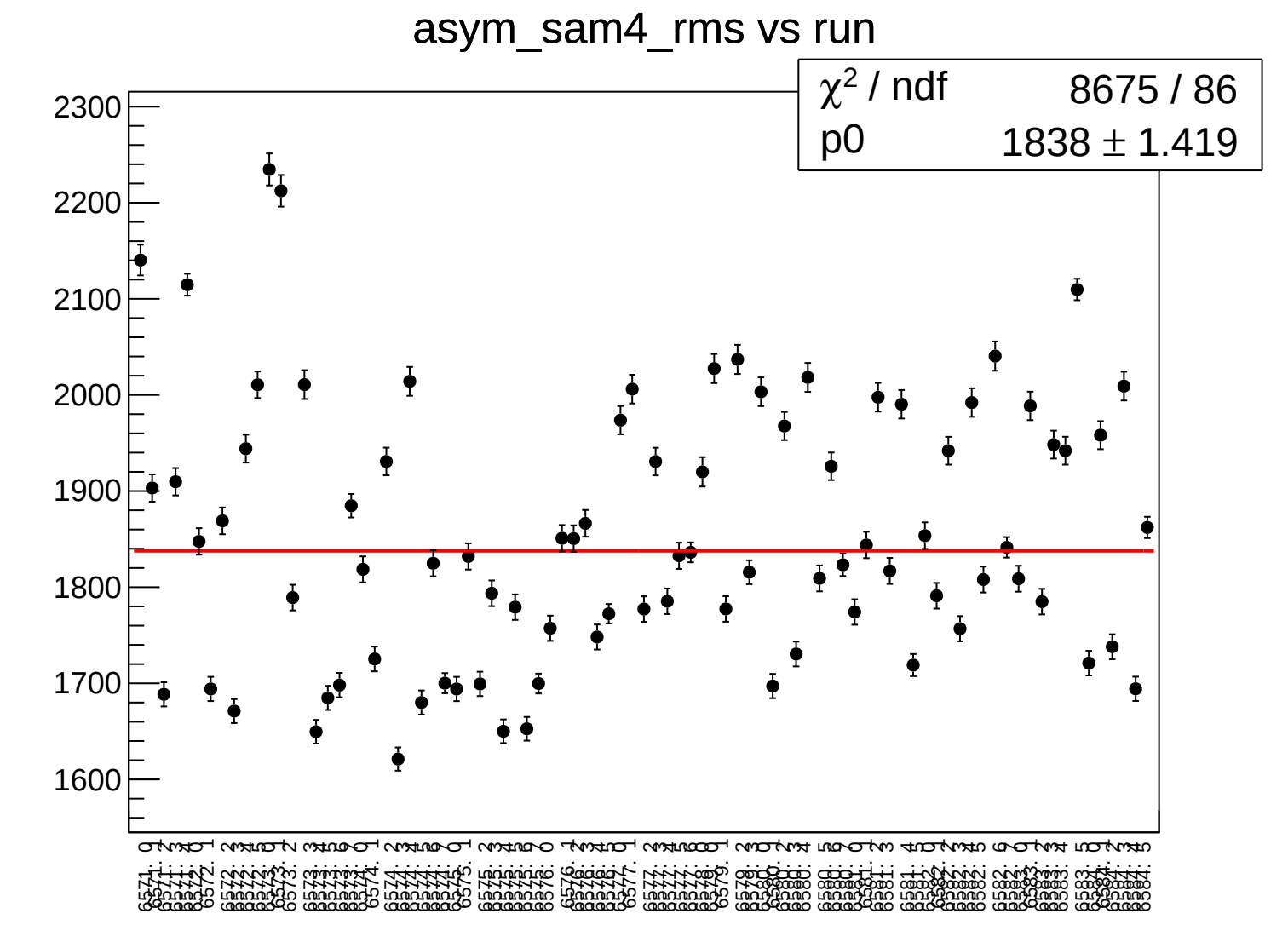

eigen_dit_asym_sam4_rms vs run
χ² / ndf 6.102e+04 / 86
p0 322.3 ± 0.2528
650
600
550
500
450
400
350
300
250

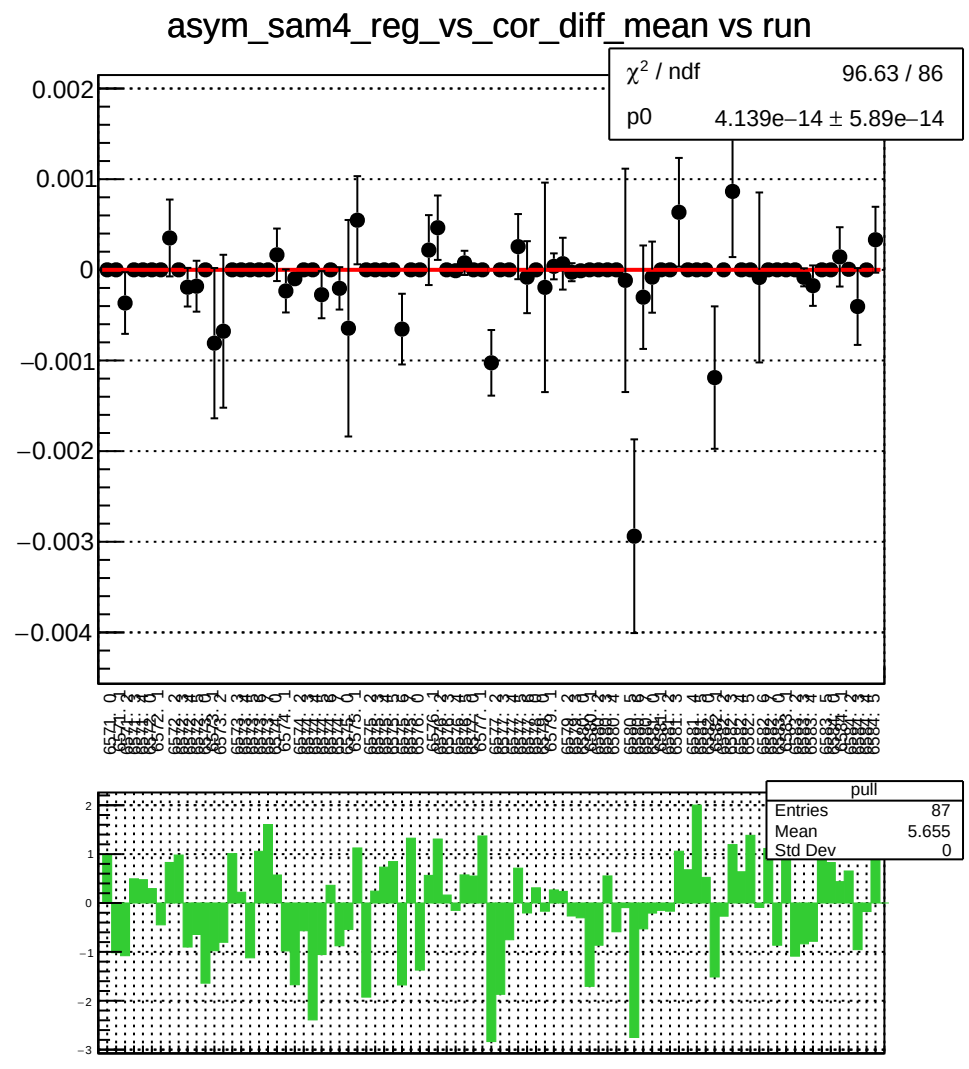

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 119.4 / 86
p0 −1616 ± 2027
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −47.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.005871
Std Dev 1.172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

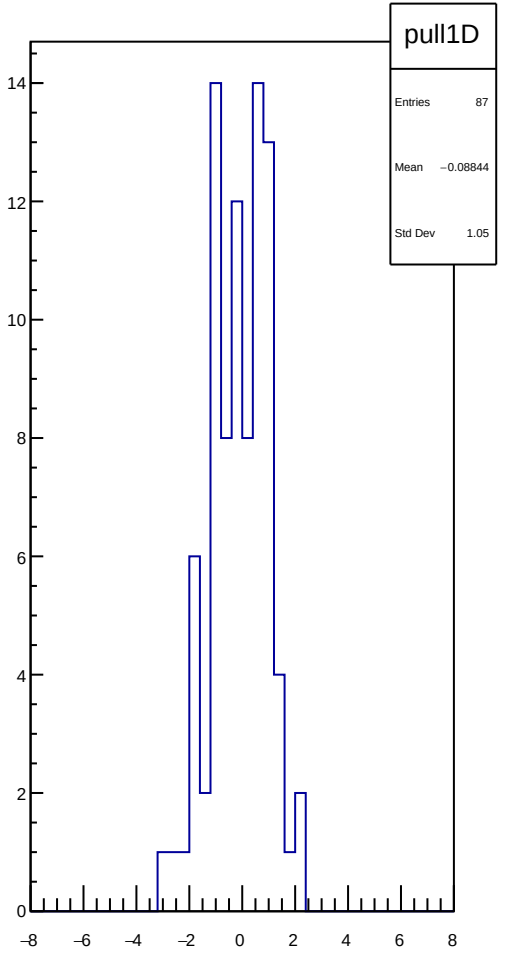

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 5112 / 86
p0 1859 ± 1.434
2100
2000
1900
1800
1700
1600

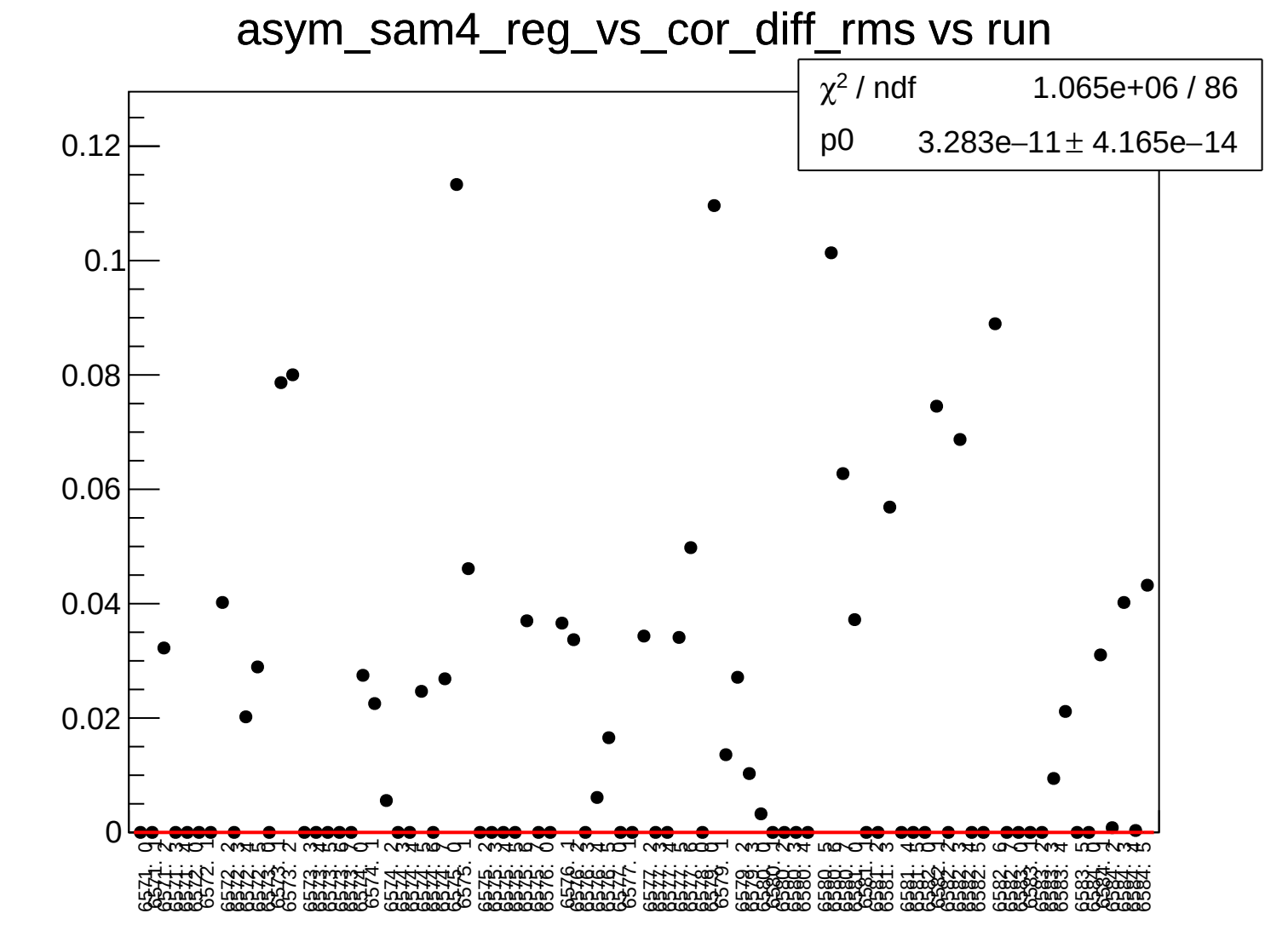

asym_sam4_mean vs run
χ² / ndf 124.9 / 86
p0 2116 ± 2006
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 4.374
Std Dev 0
2
1
0
−1
−2

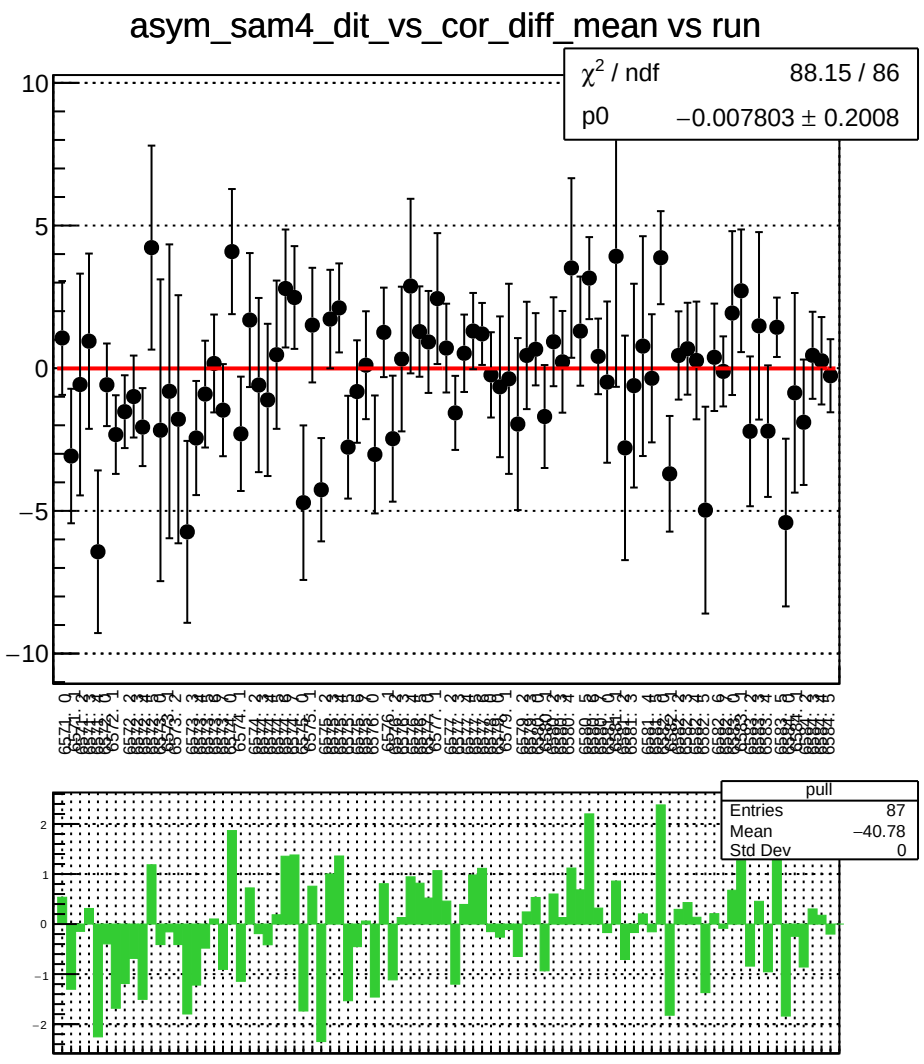

pull1D
Entries 87
Mean 0.002948
Std Dev 1.198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

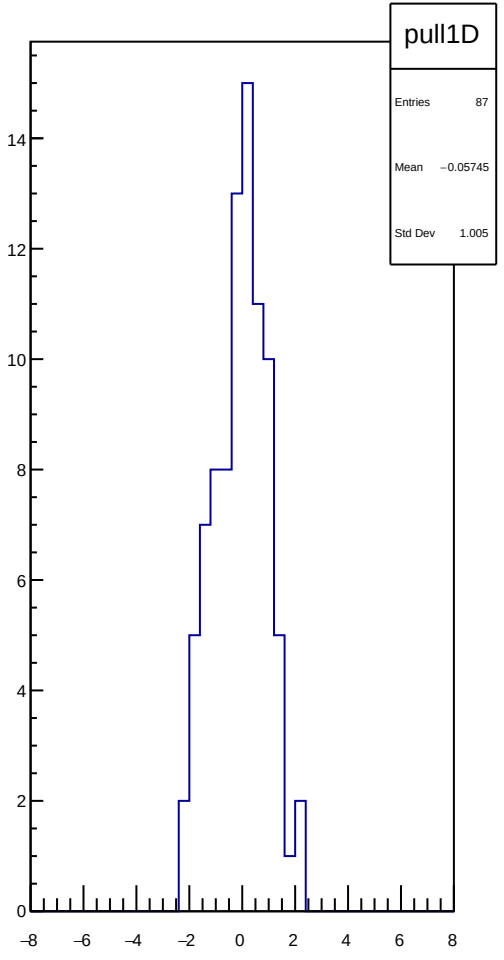

asym_sam4_rms vs run
χ² / ndf 8675 / 86
p0 1838 ± 1.419
2300
2200
2100
2000
1900
1800
1700
1600

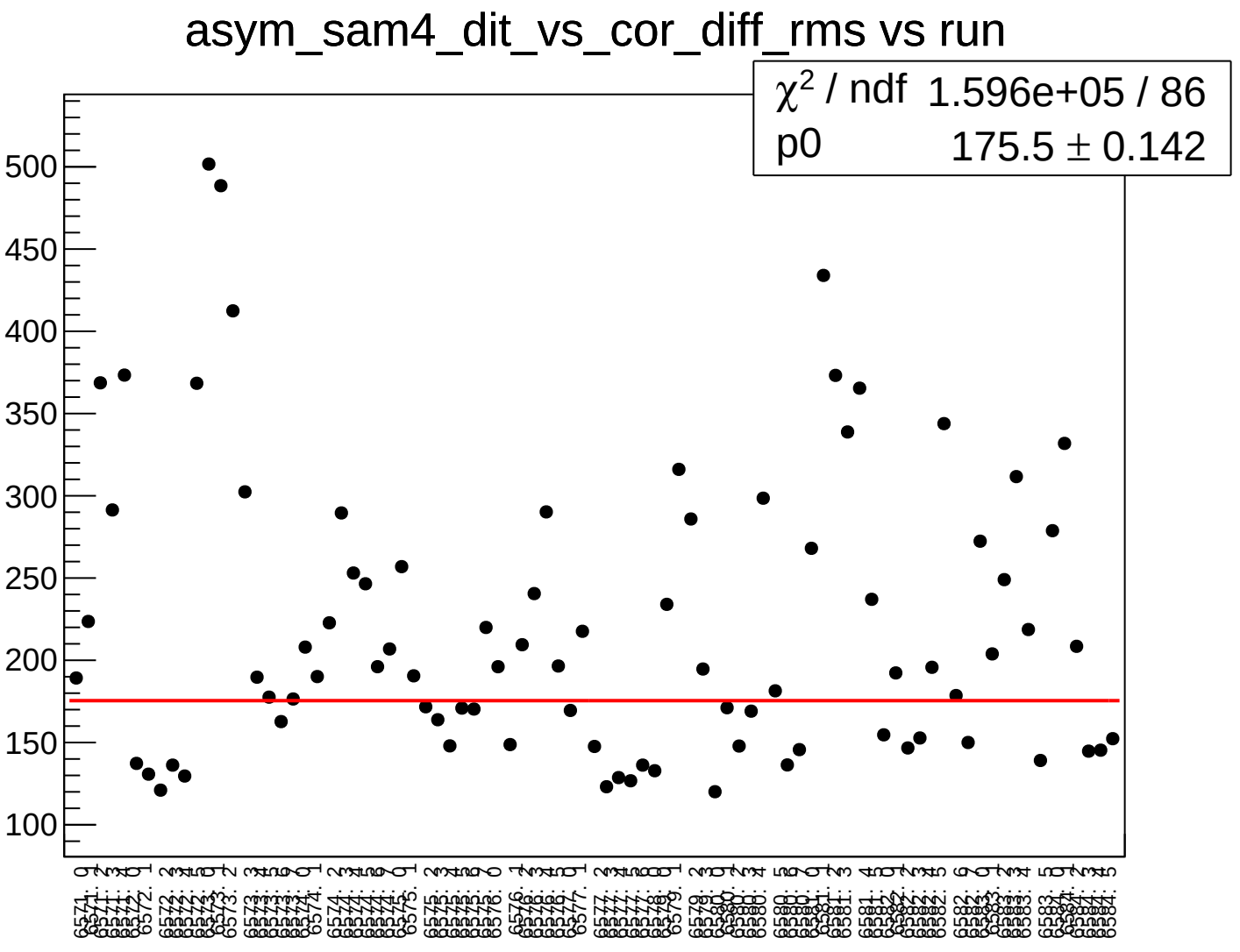

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 96.63 / 86
p0 4.139e−14 ± 5.89e−14
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 87
Mean 5.655
Std Dev 0
2
1
0
−1
−2
−3

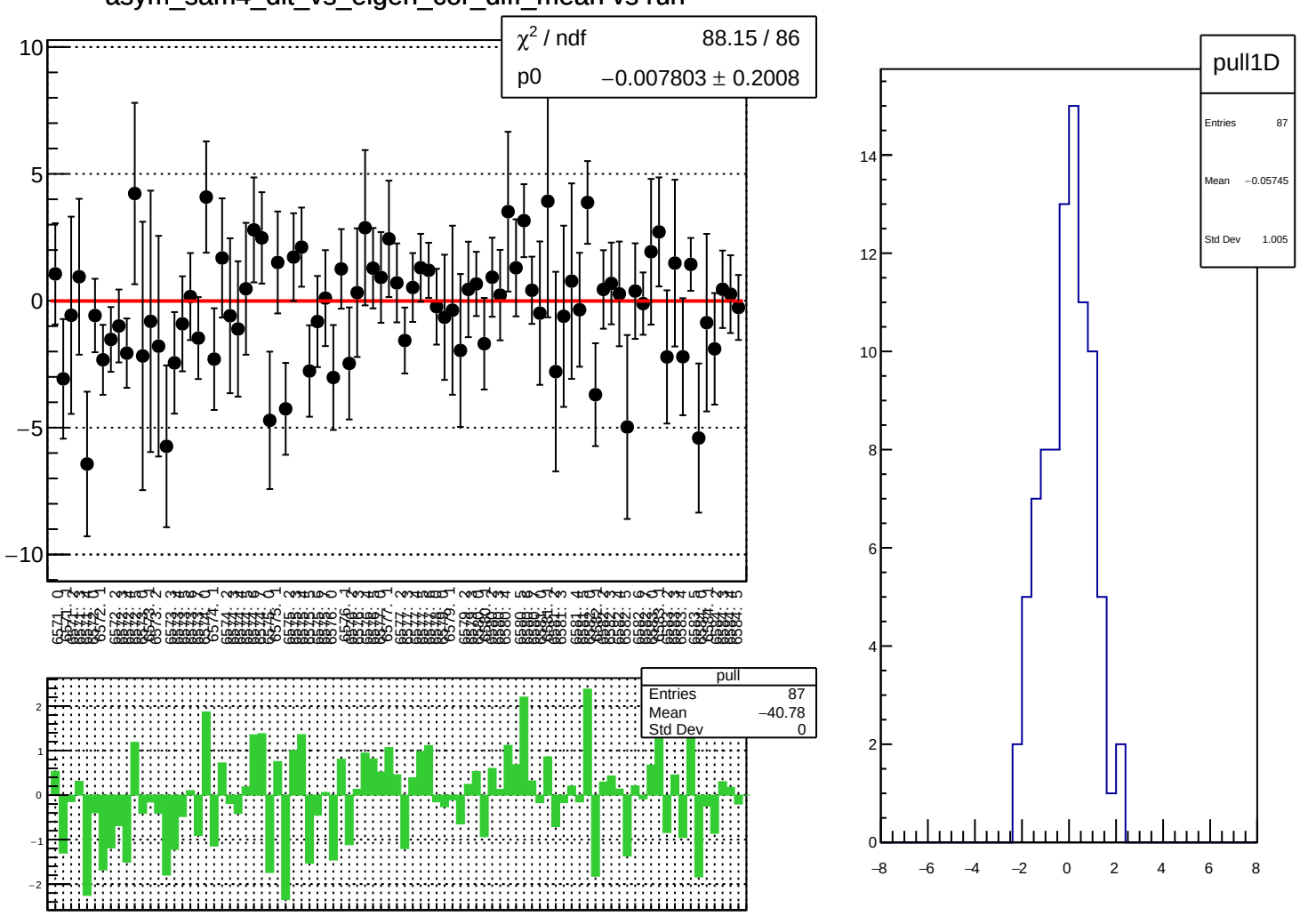

pull1D
Entries 87
Mean −0.08844
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

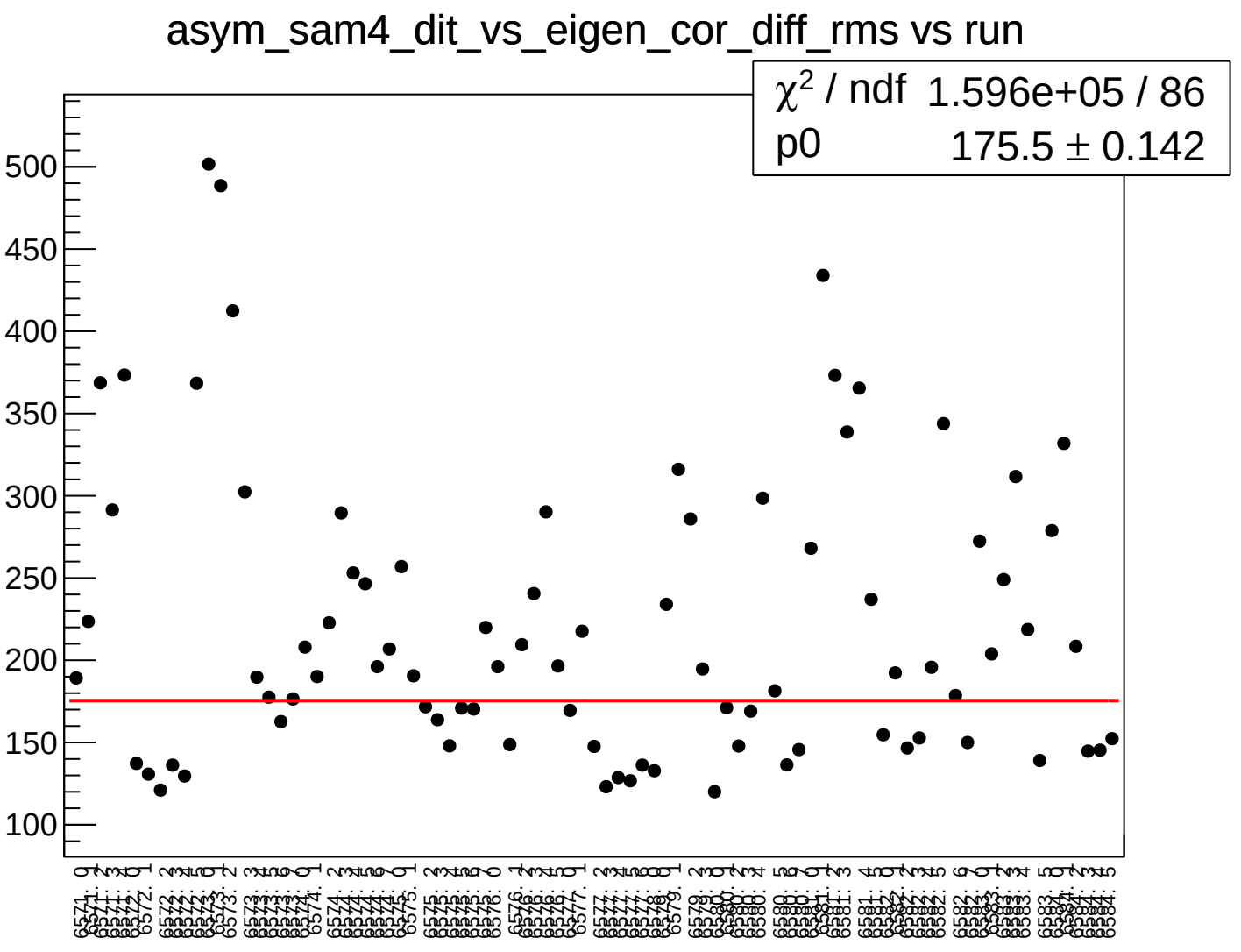

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 86
p0 3.283e−11 ± 4.165e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

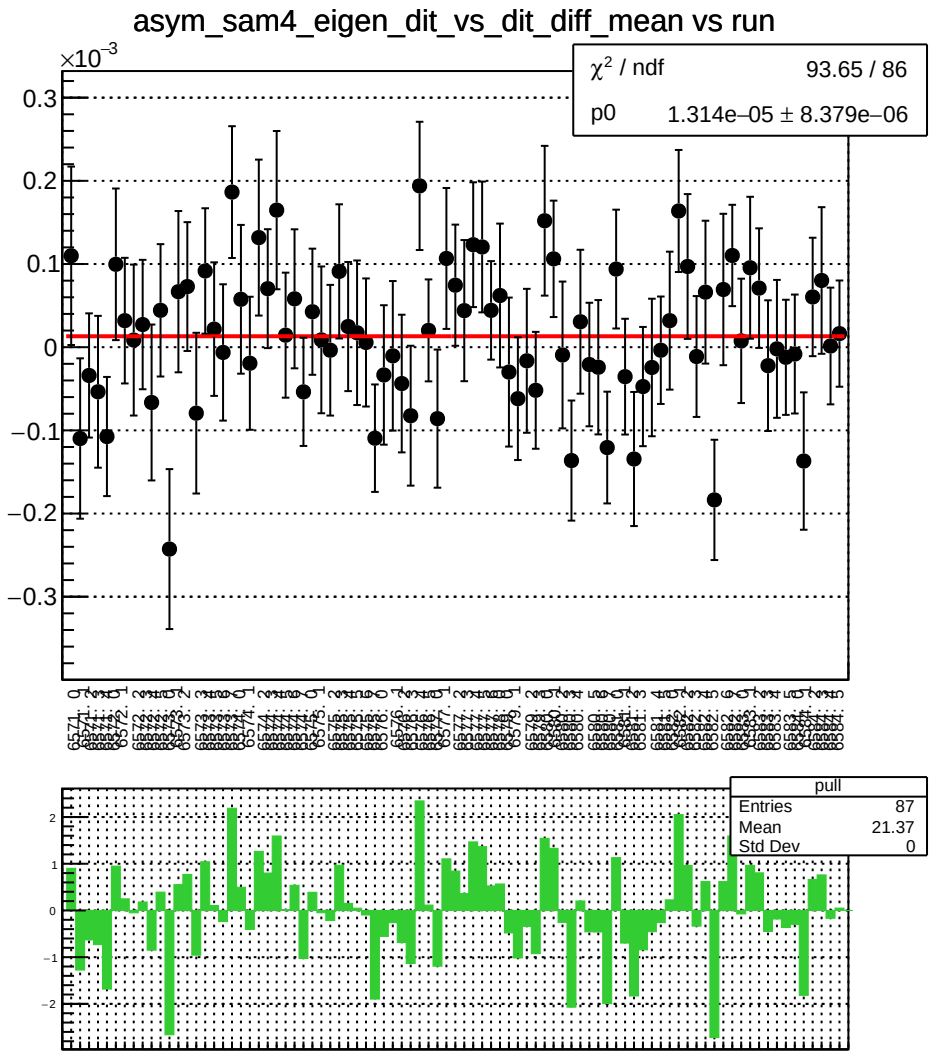

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 88.15 / 86
p0 −0.007803 ± 0.2008
pull
Entries 87
Mean −40.78
Std Dev 0

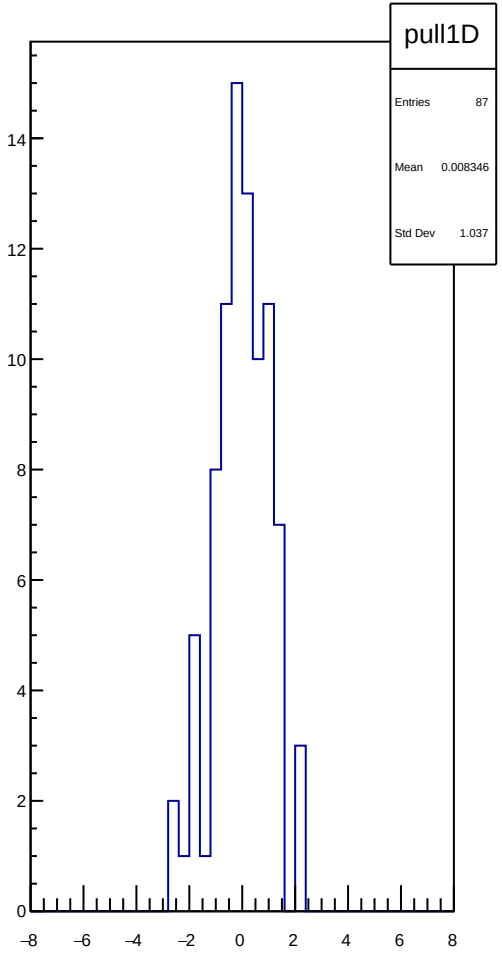

pull1D
Entries 87
Mean −0.05745
Std Dev 1.005

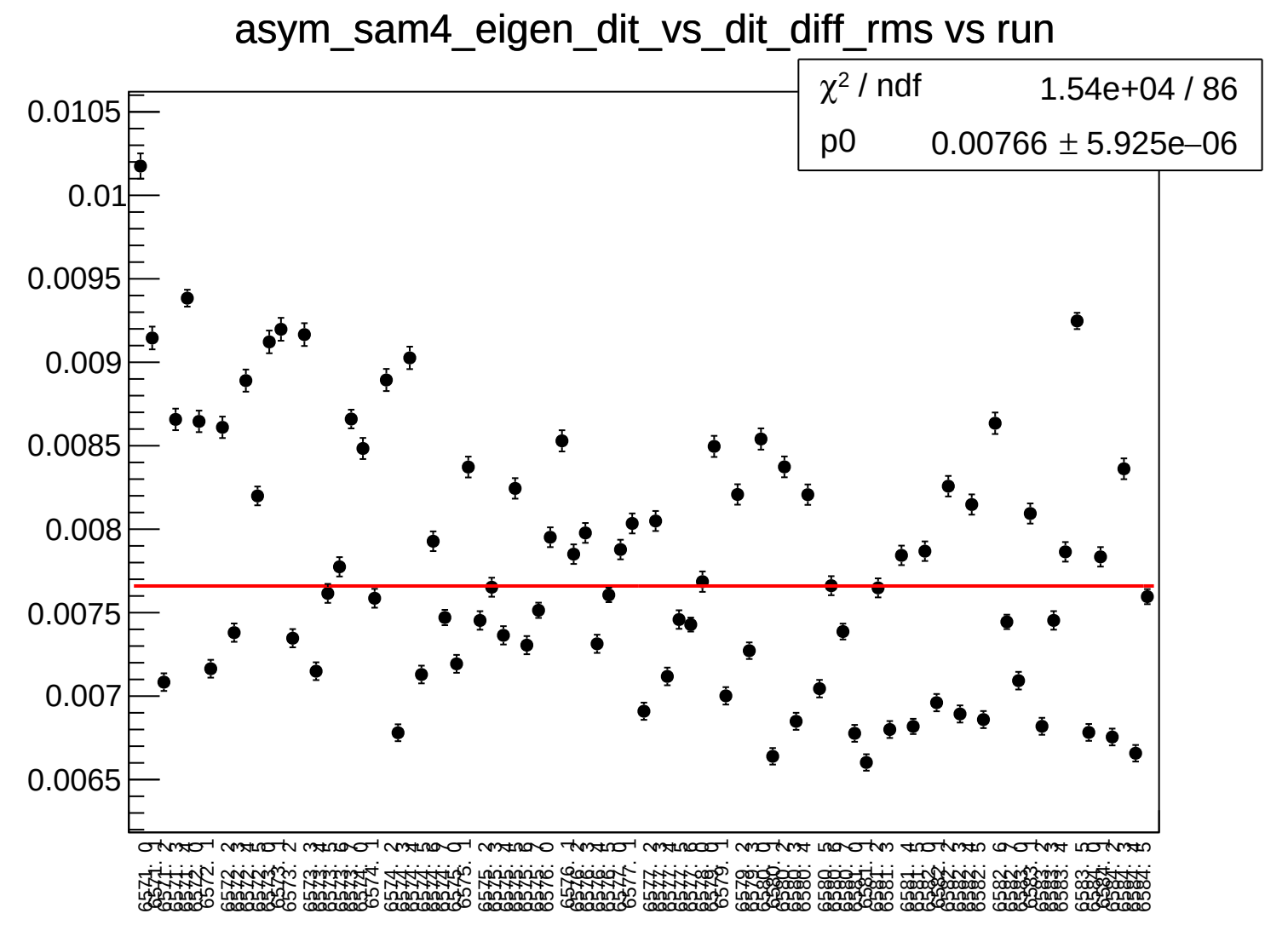

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.596e+05 / 86
p0 175.5 ± 0.142
500
450
400
350
300
250
200
150
100

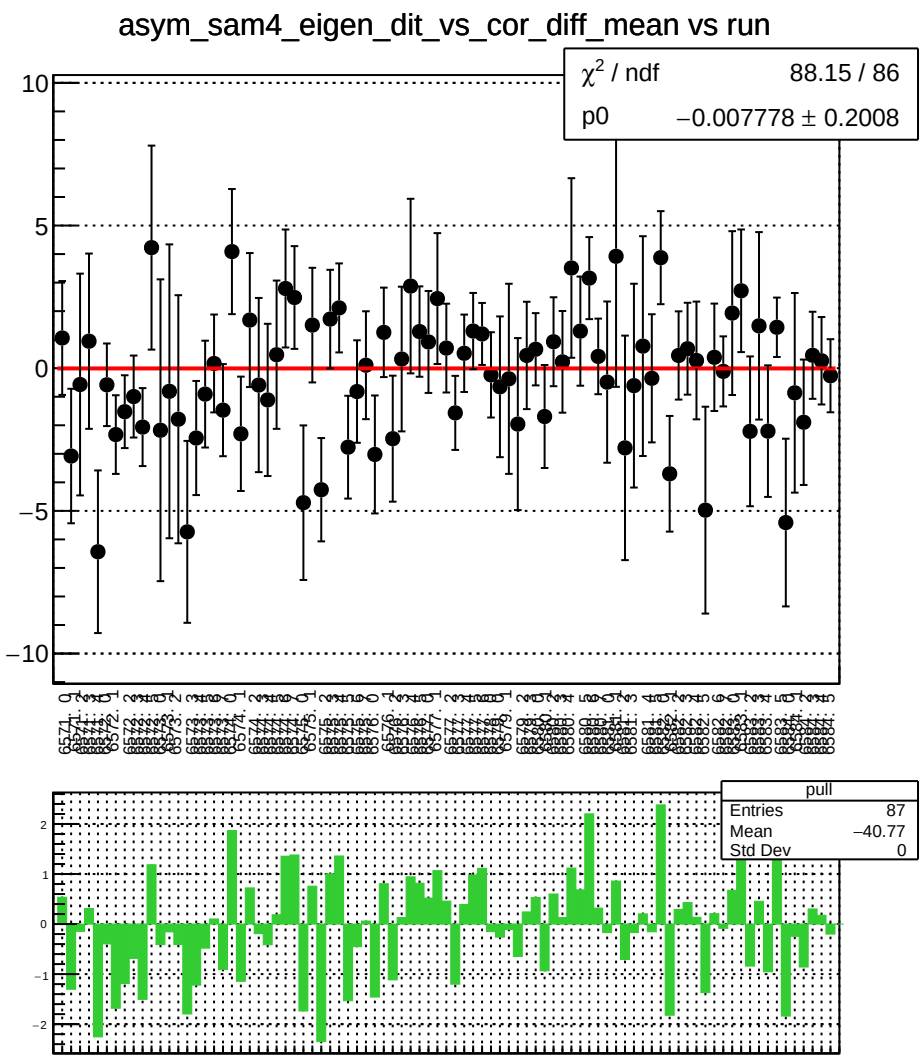

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.15 / 86
p0 −0.007803 ± 0.2008
pull
Entries 87
Mean −40.78
Std Dev 0
pull1D
Entries 87
Mean −0.05745
Std Dev 1.005

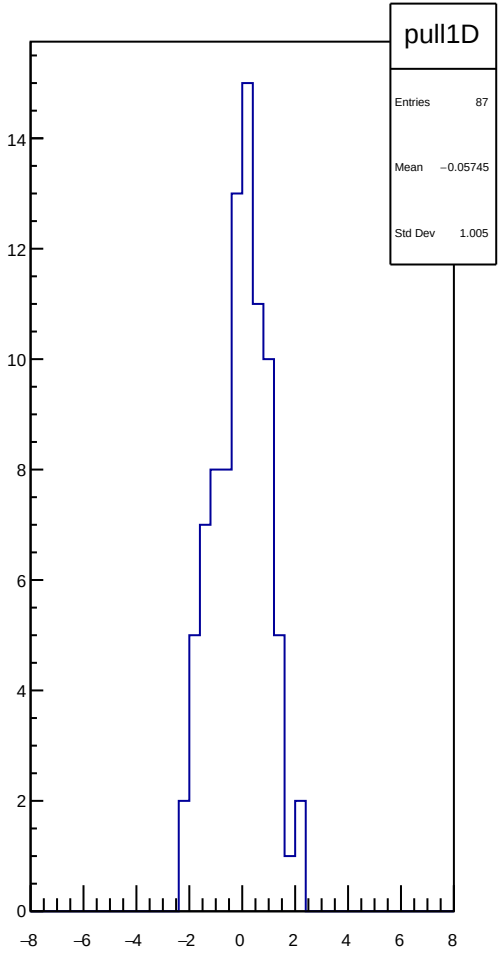

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 86
p0 175.5 ± 0.142
500
450
400
350
300
250
200
150
100

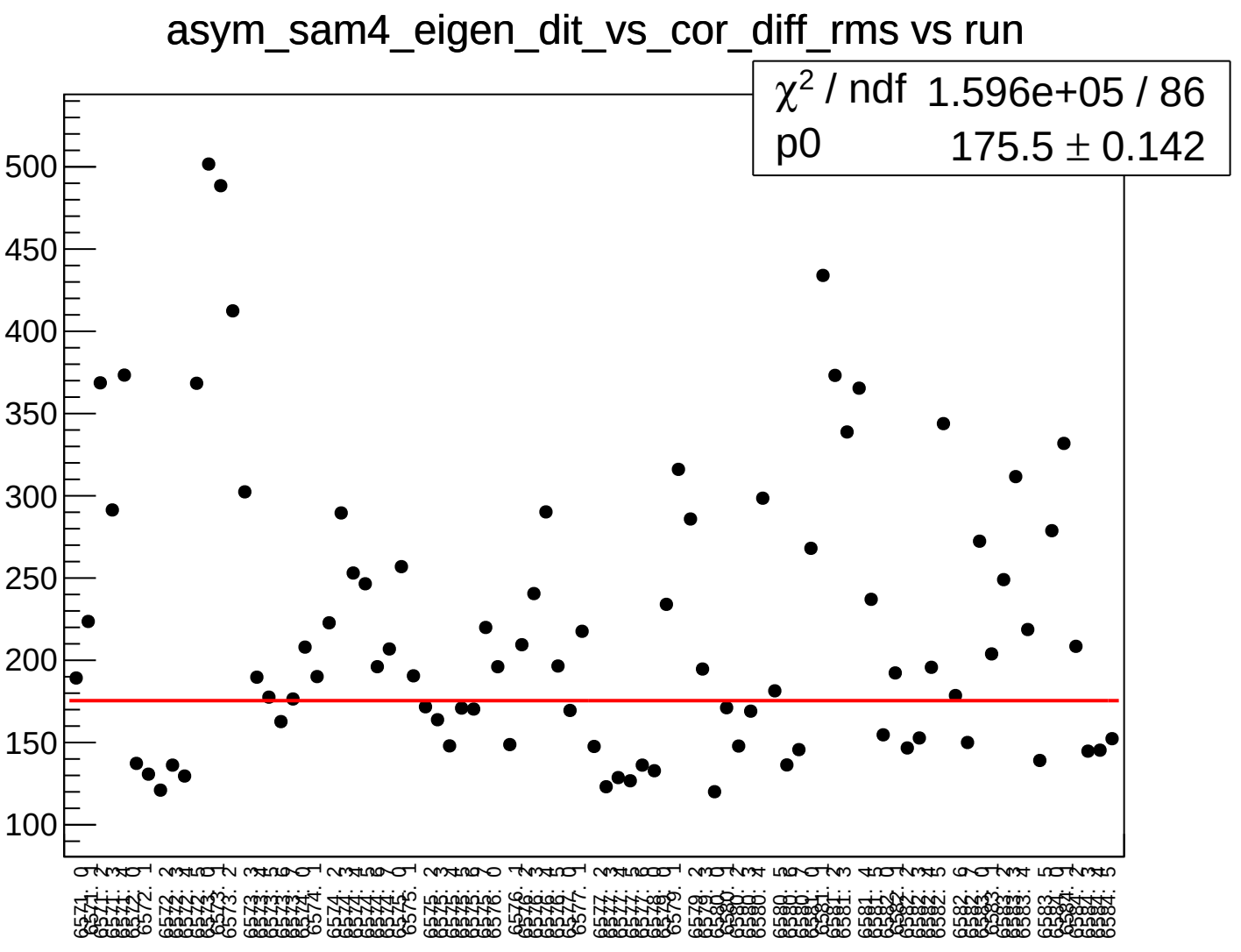

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.65 / 86
p0 1.314e−05 ± 8.379e−06
pull
Entries 87
Mean 21.37
Std Dev 0

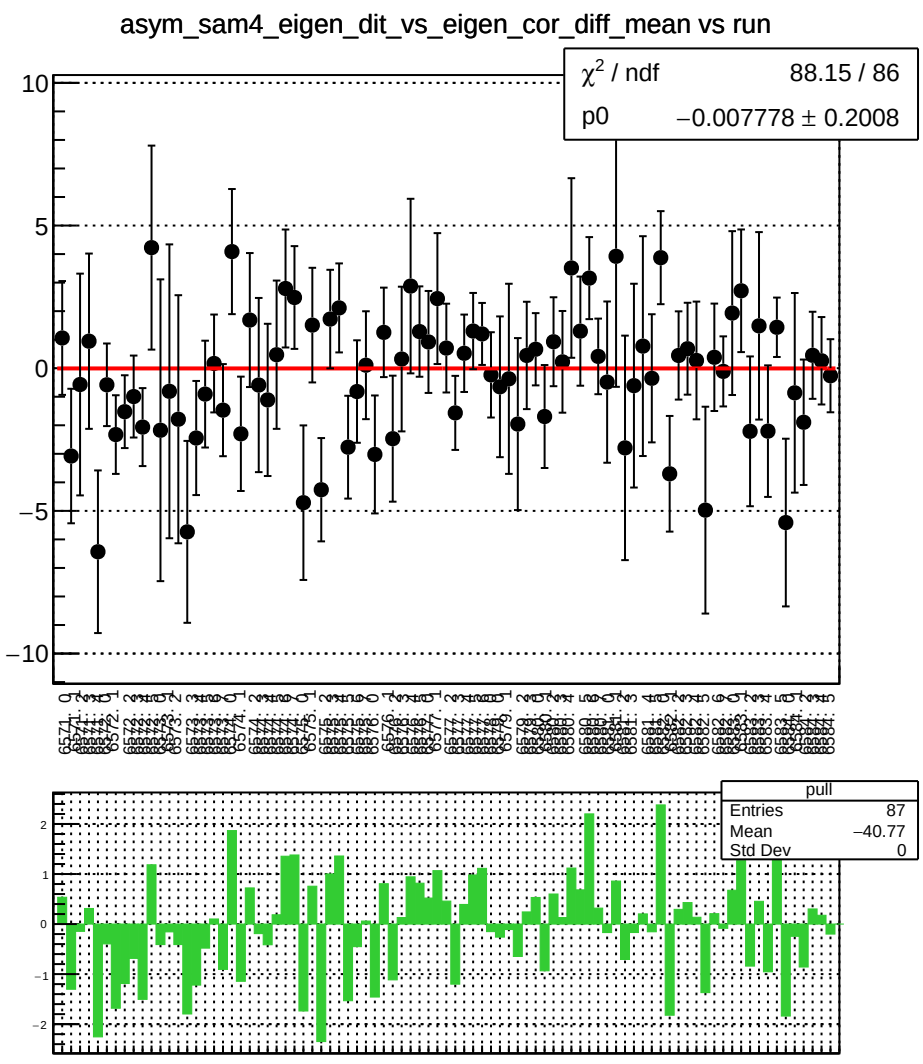

pull1D
Entries 87
Mean 0.008346
Std Dev 1.037

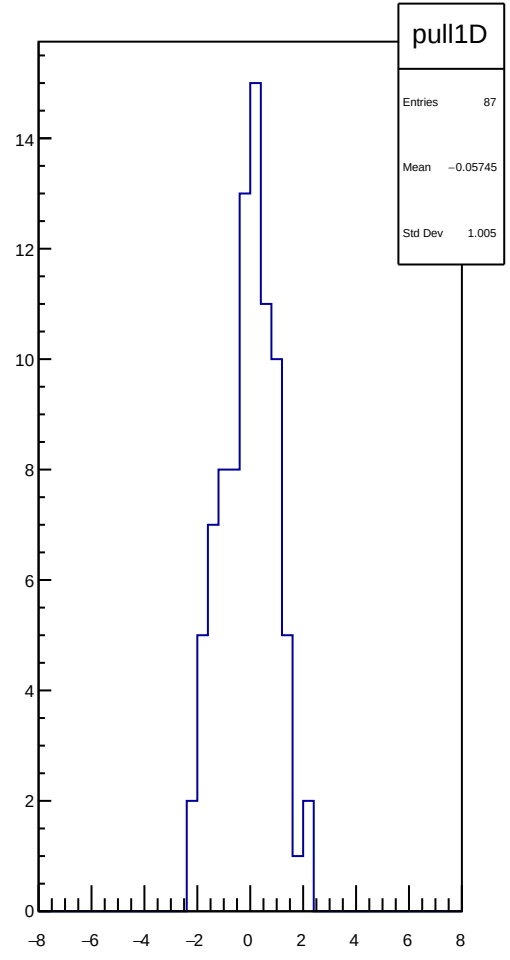

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.54e+04 / 86
p0 0.00766 ± 5.925e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

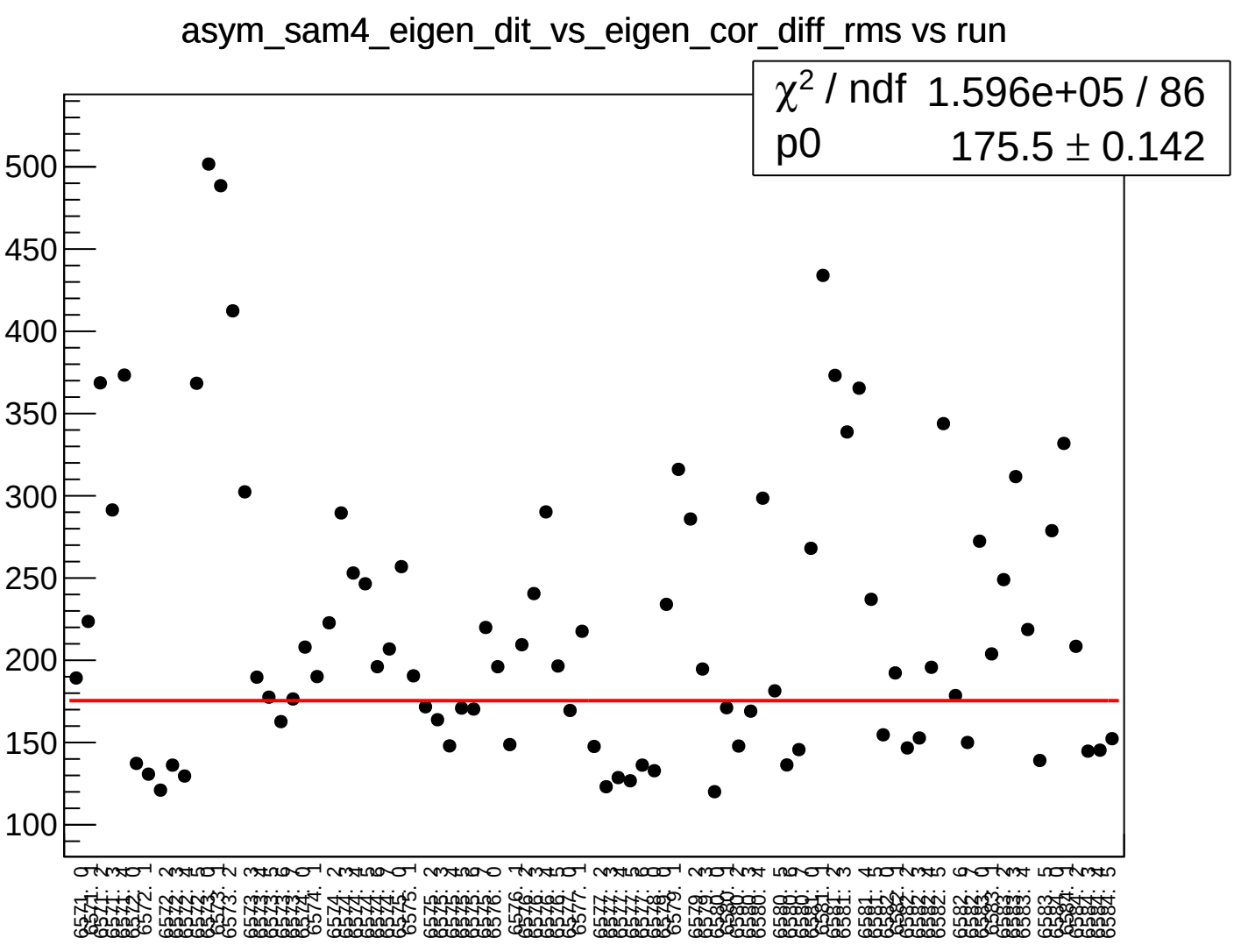

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.15 / 86
p0 −0.007778 ± 0.2008
pull
Entries 87
Mean −40.77
Std Dev 0

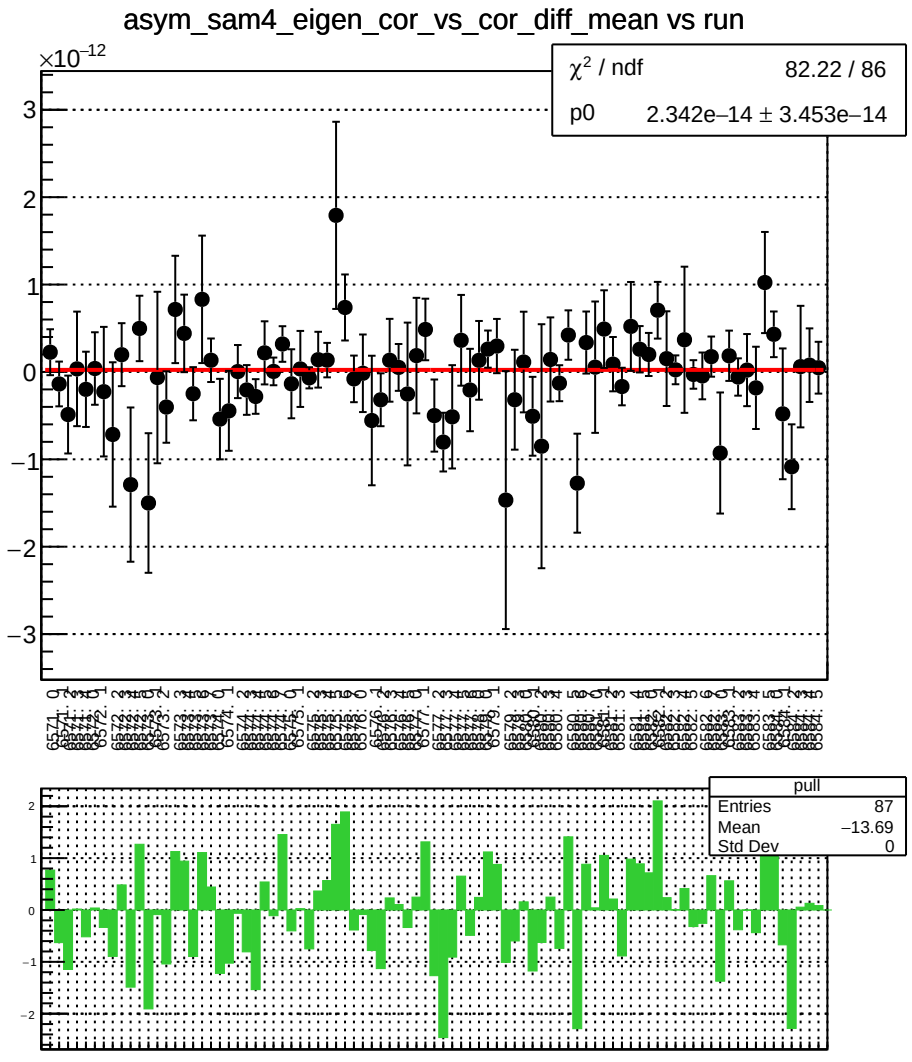

pull1D
Entries 87
Mean −0.05745
Std Dev 1.005

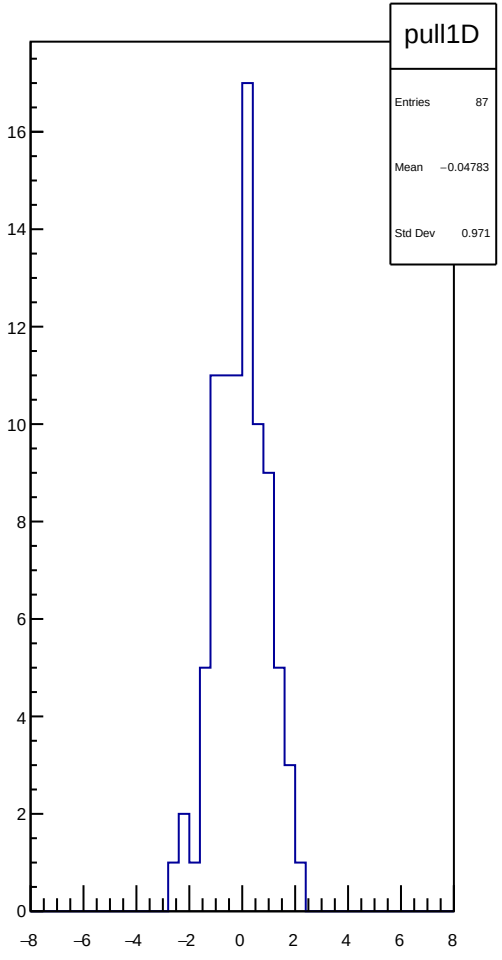

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 86
p0 175.5 ± 0.142
500
450
400
350
300
250
200
150
100

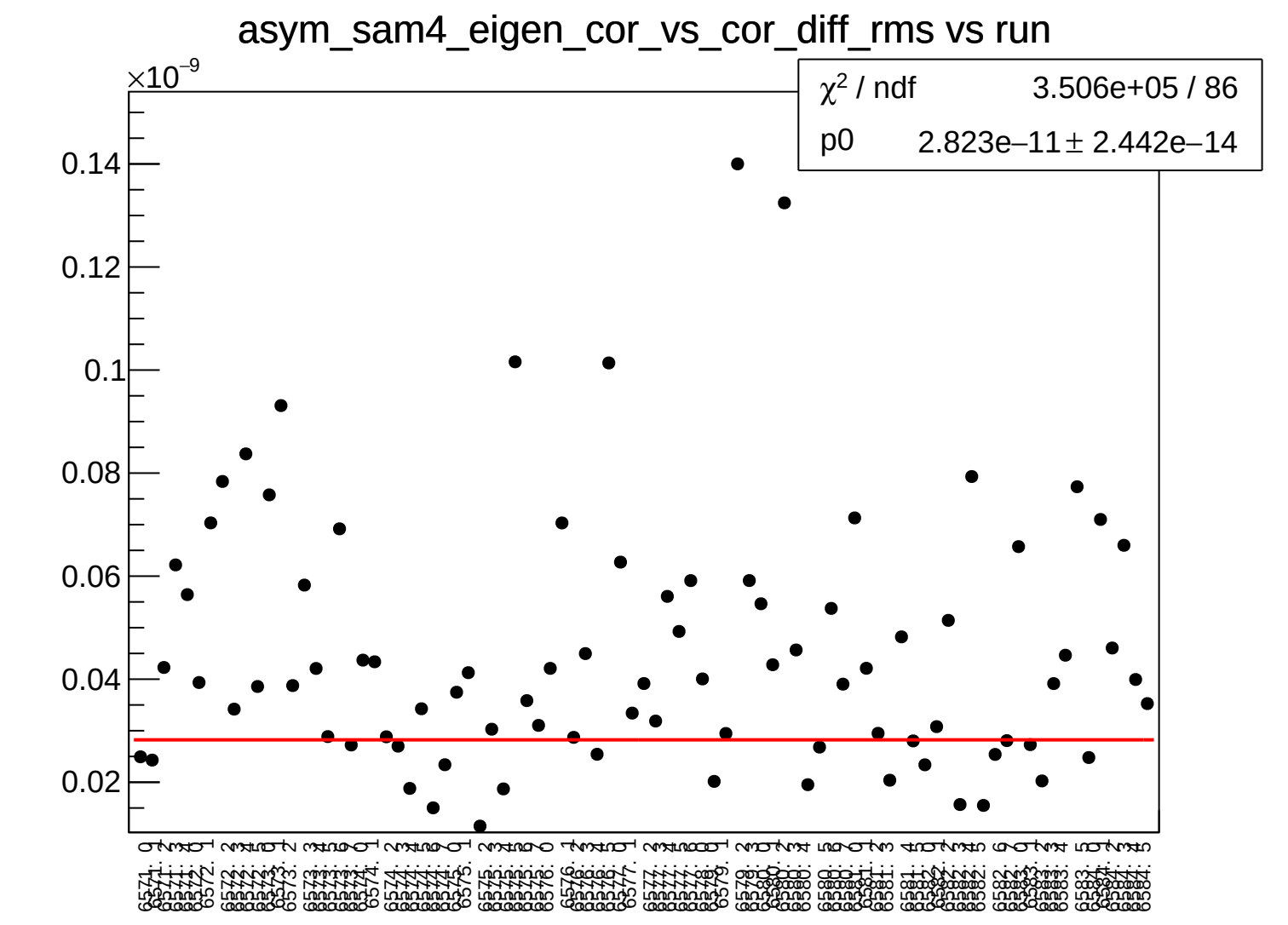

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.15 / 86
p0 −0.007778 ± 0.2008
pull
Entries 87
Mean −40.77
Std Dev 0

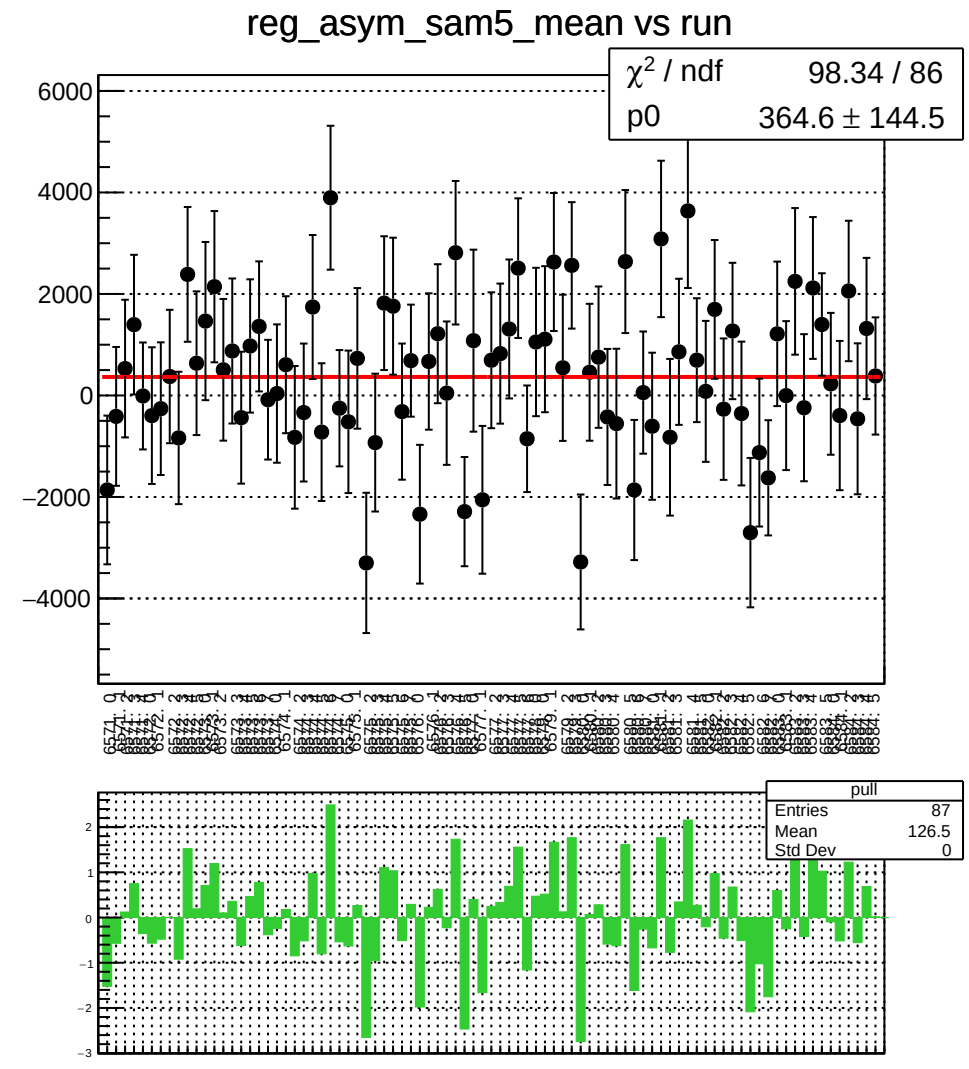

pull1D
Entries 87
Mean −0.05745
Std Dev 1.005

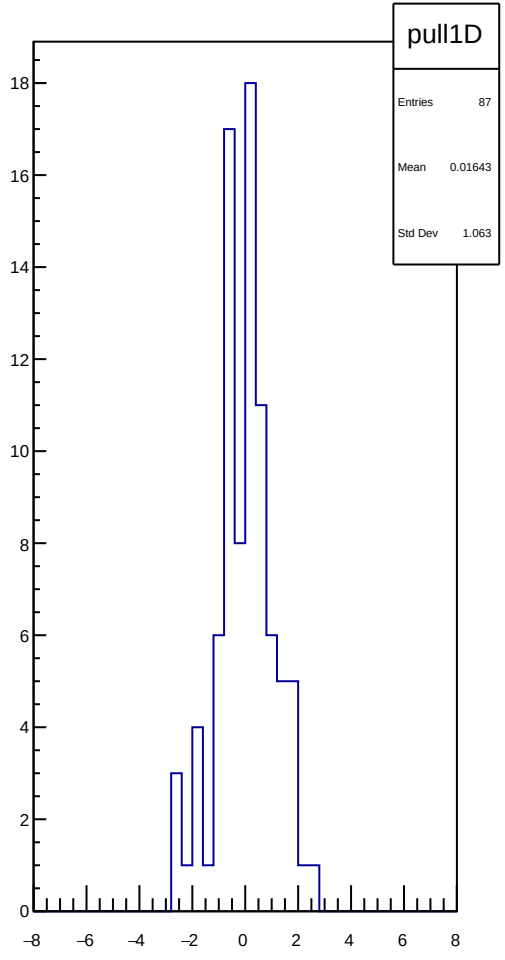

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 86
p0 175.5 ± 0.142
500
450
400
350
300
250
200
150
100

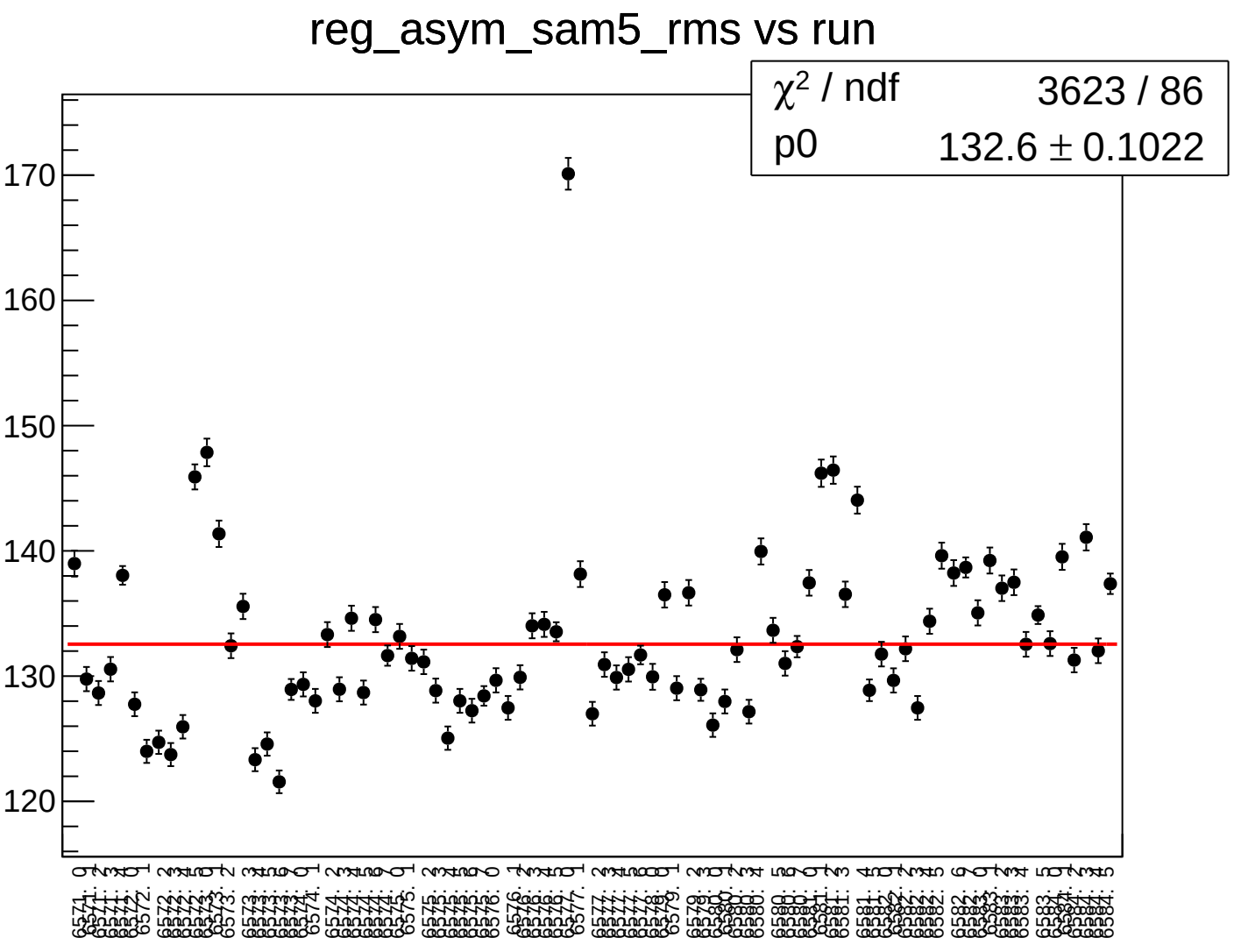

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
χ² / ndf 82.22 / 86
p0 2.342e−14 ± 3.453e−14
pull
Entries 87
Mean −13.69
Std Dev 0

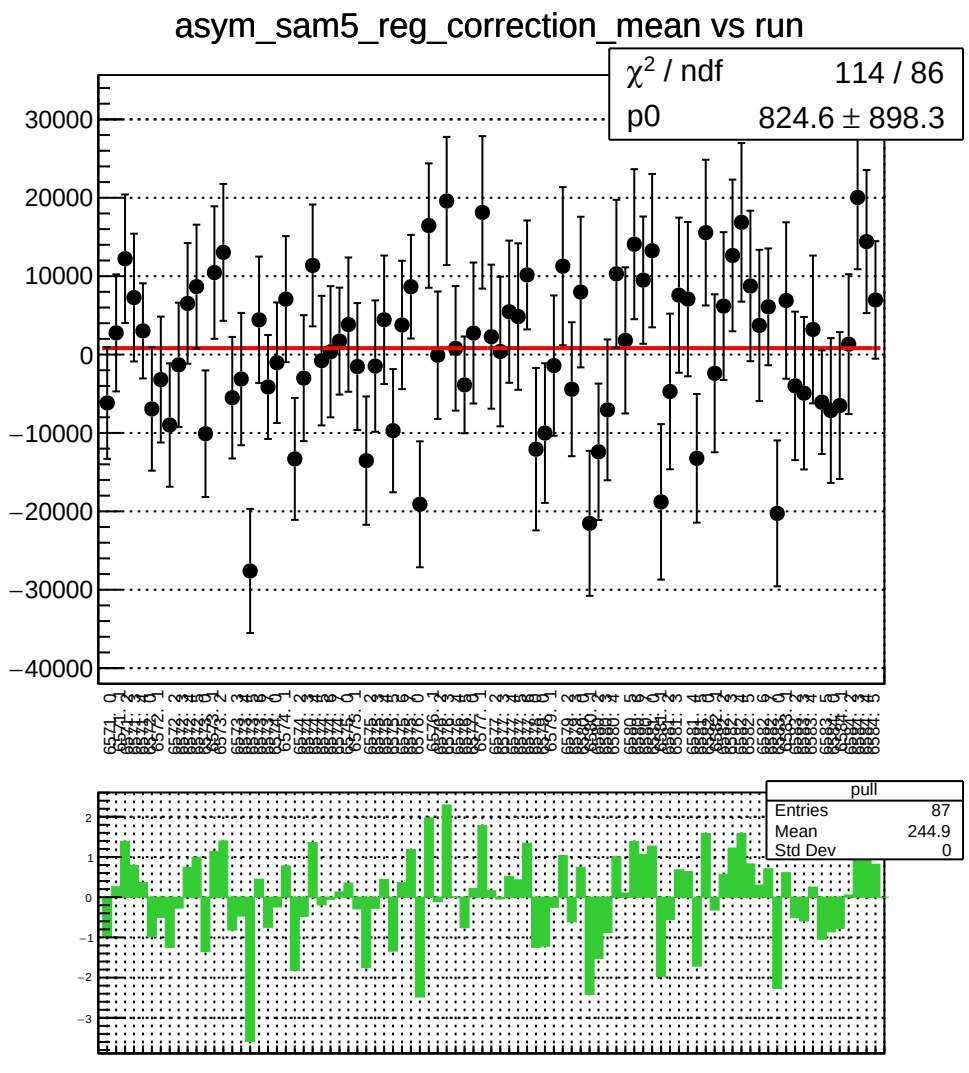

pull1D
Entries 87
Mean −0.04783
Std Dev 0.971

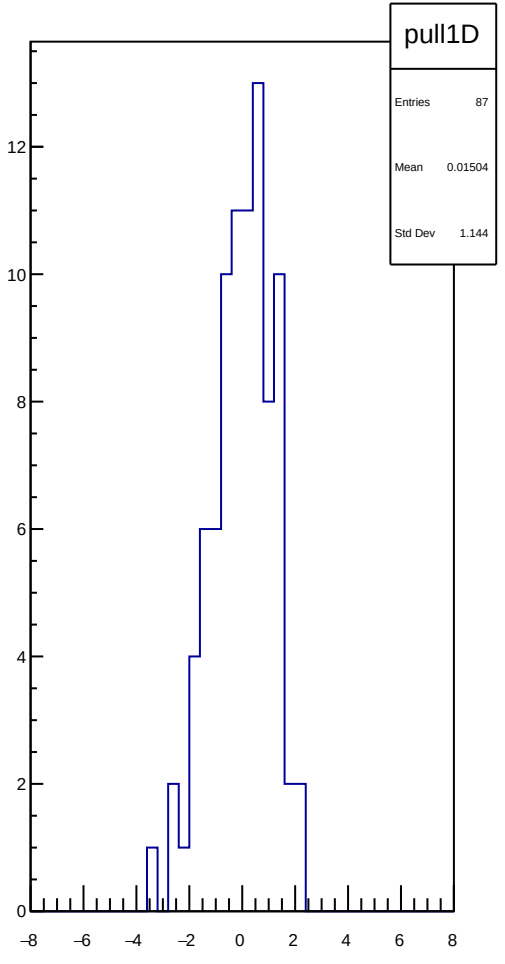

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.506e+05 / 86
p0 2.823e−11 ± 2.442e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

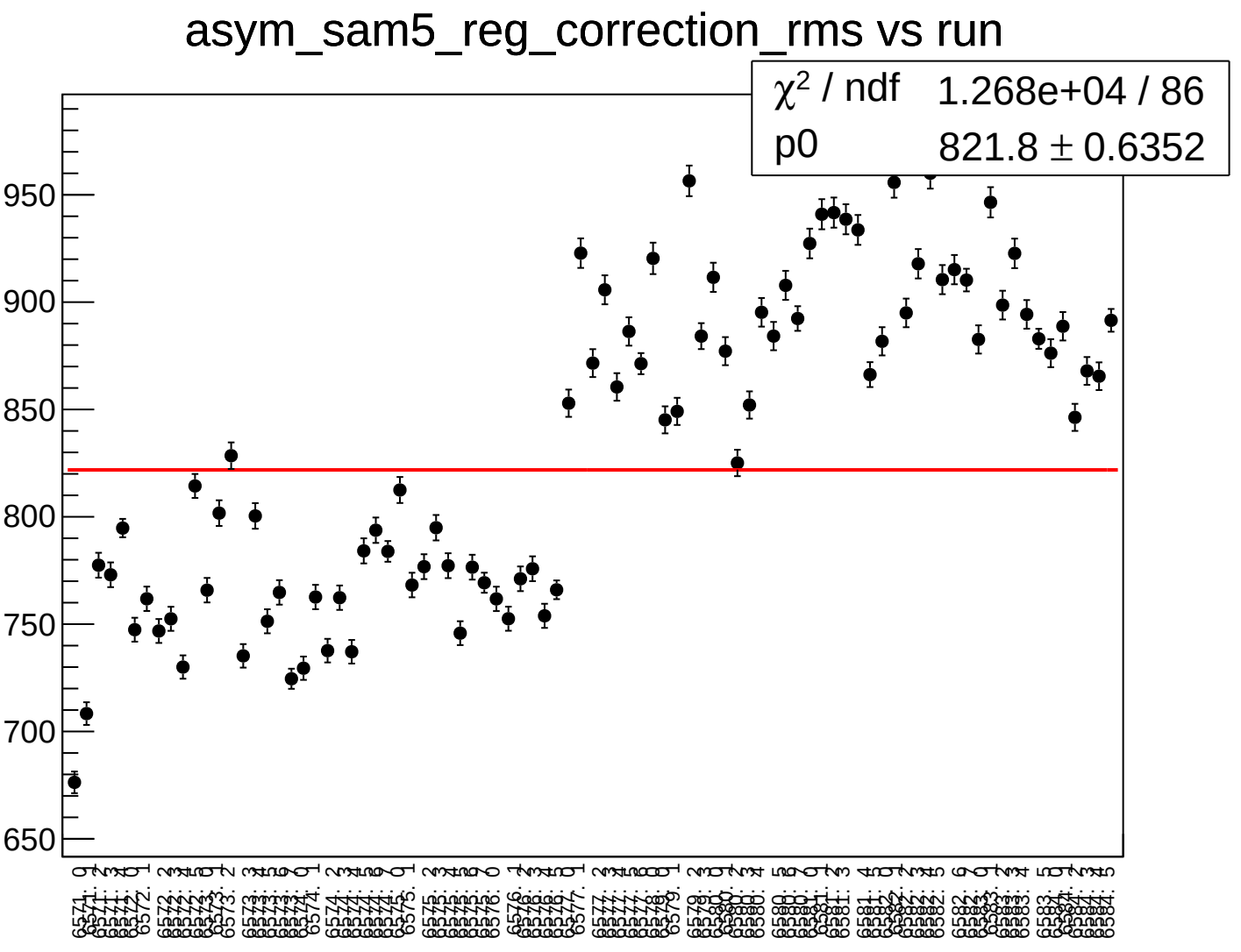

reg_asym_sam5_mean vs run
χ² / ndf 98.34 / 86
p0 364.6 ± 144.5
pull
Entries 87
Mean 126.5
Std Dev 0

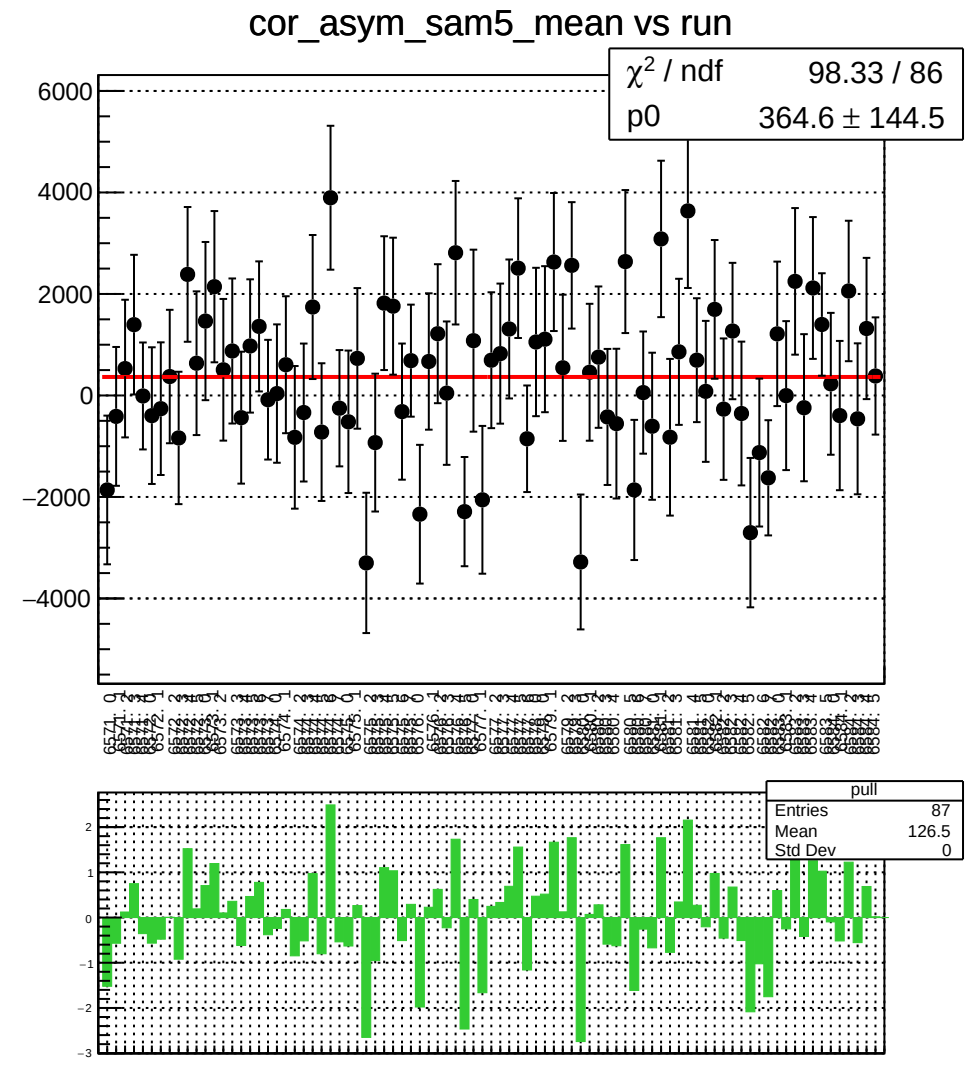

pull1D
Entries 87
Mean 0.01643
Std Dev 1.063

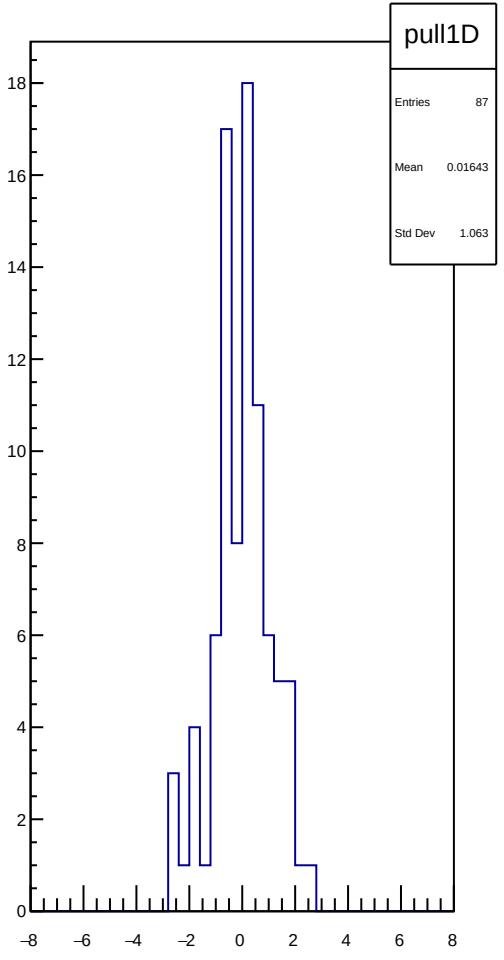

reg_asym_sam5_rms vs run
χ² / ndf 3623 / 86
p0 132.6 ± 0.1022
170
160
150
140
130
120

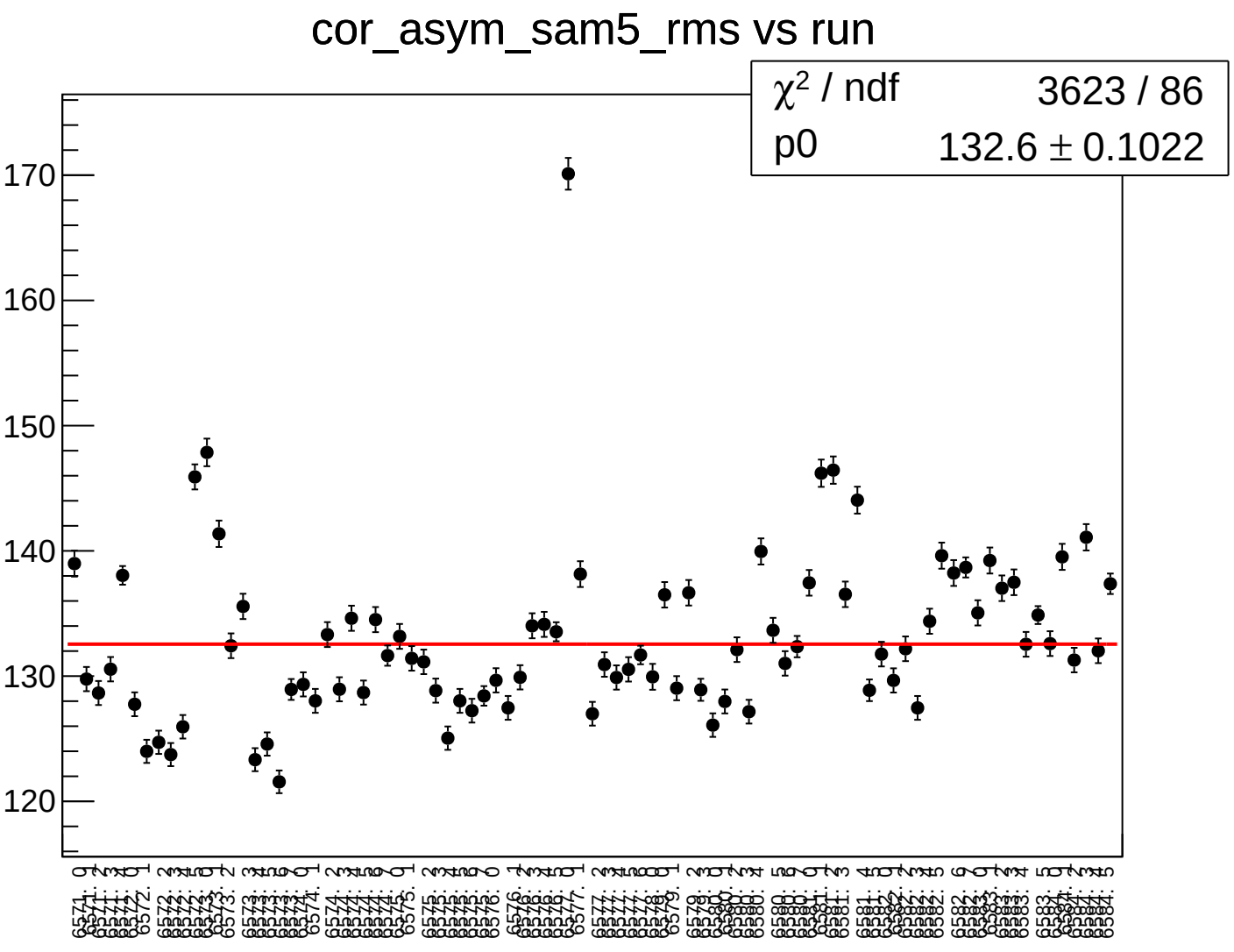

asym_sam5_reg_correction_mean vs run
χ² / ndf 114 / 86
p0 824.6 ± 898.3
pull
Entries 87
Mean 244.9
Std Dev 0

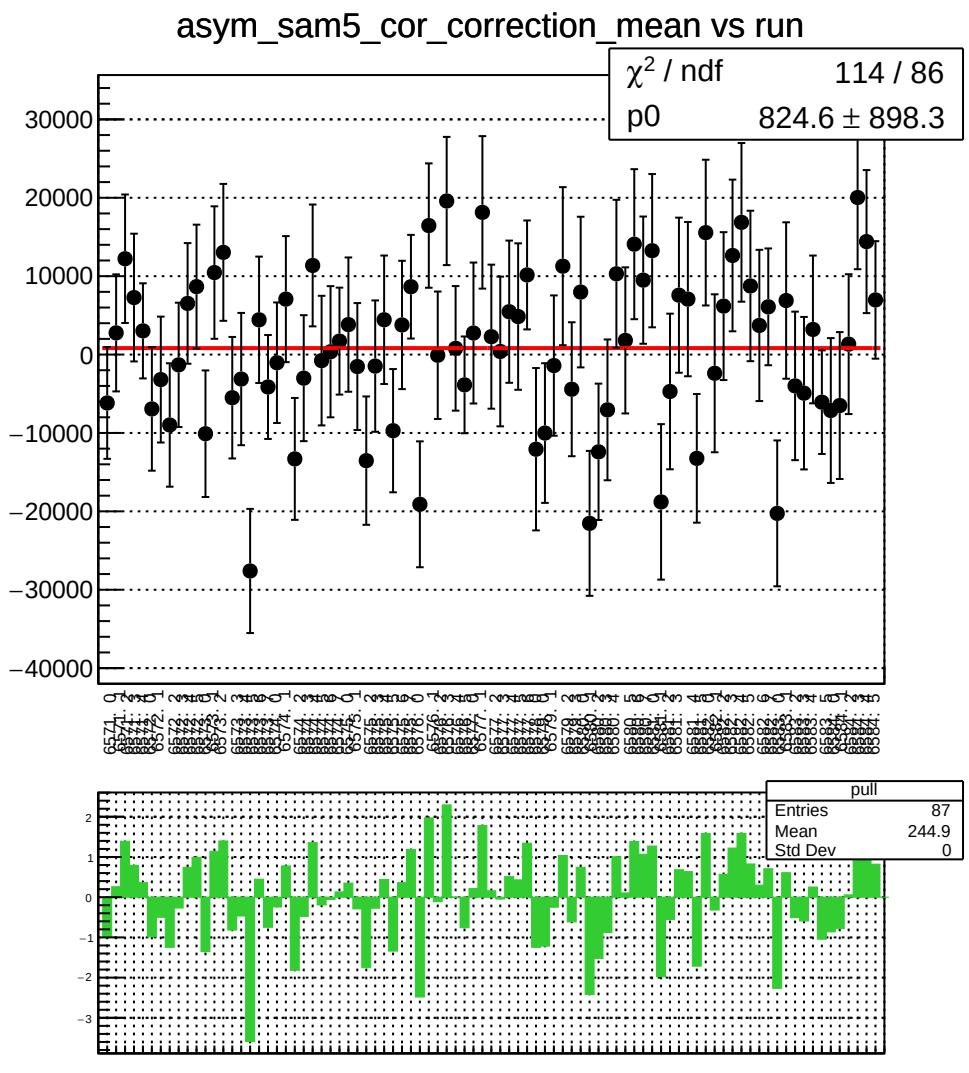

pull1D
Entries 87
Mean 0.01504
Std Dev 1.144

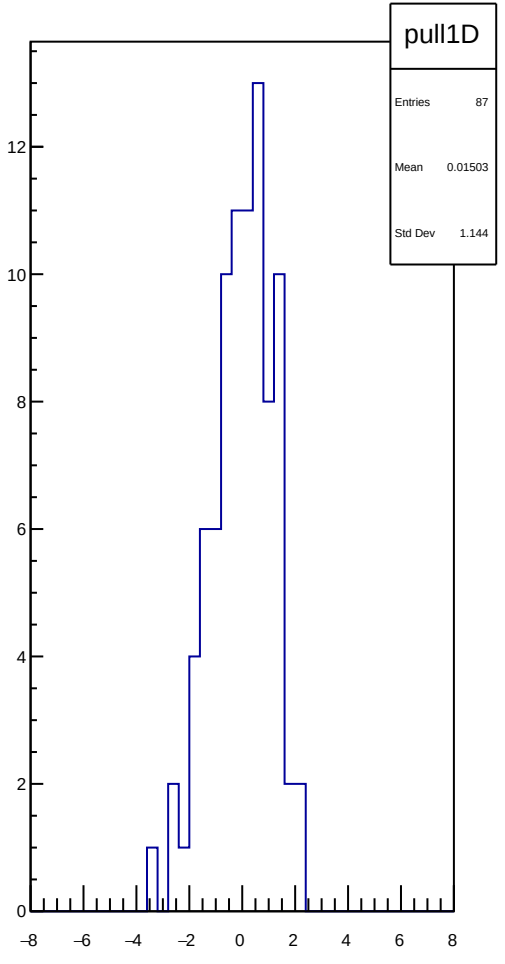

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.268e+04 / 86
p0 821.8 ± 0.6352
950
900
850
800
750
700
650

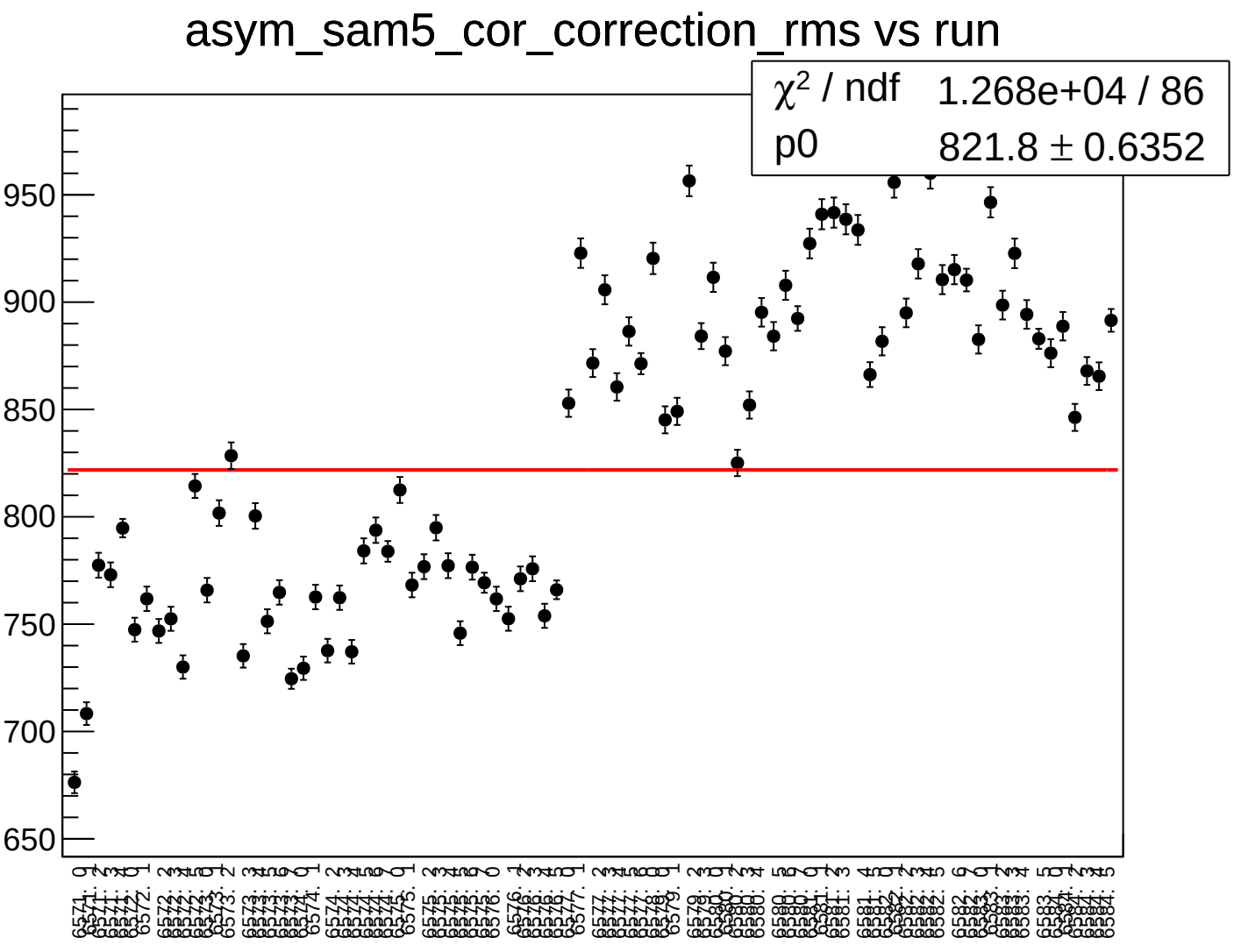

cor_asym_sam5_mean vs run
χ² / ndf 98.33 / 86
p0 364.6 ± 144.5
pull
Entries 87
Mean 126.5
Std Dev 0

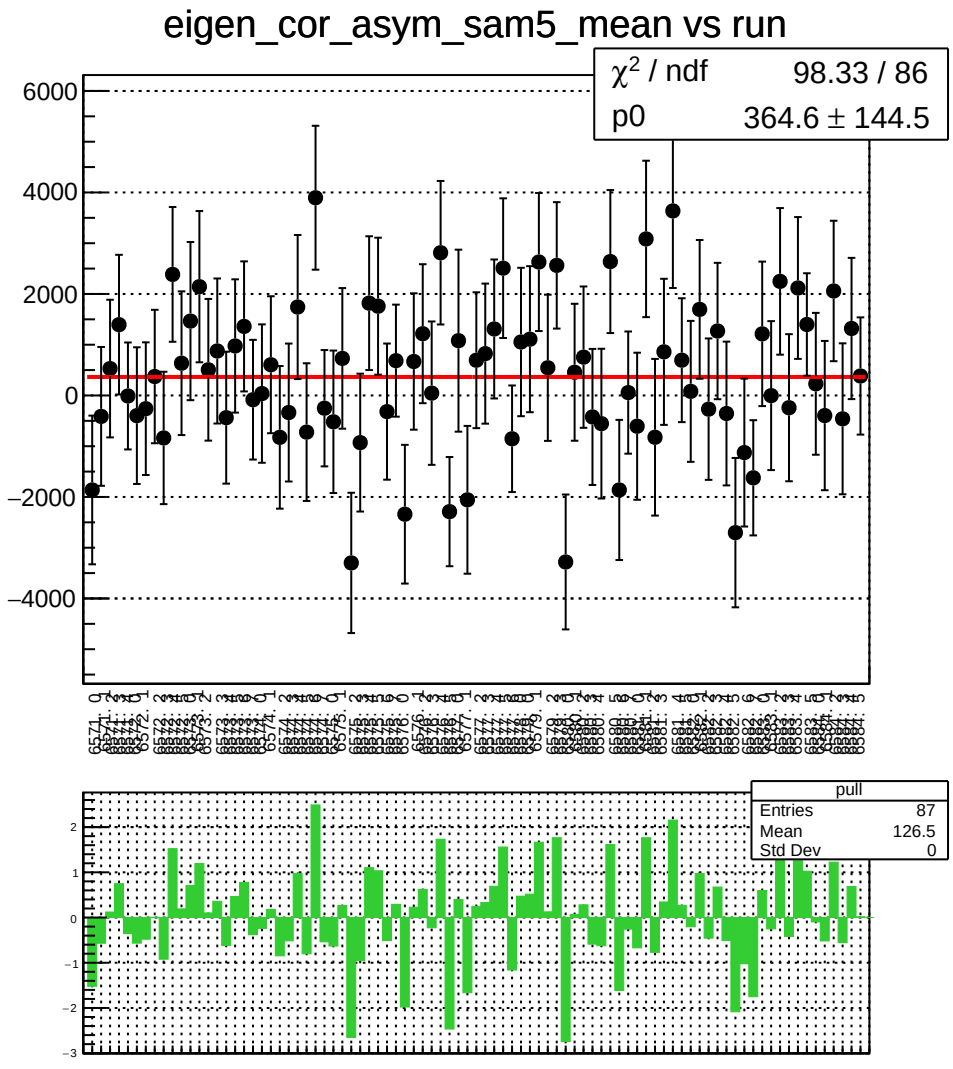

pull1D
Entries 87
Mean 0.01643
Std Dev 1.063

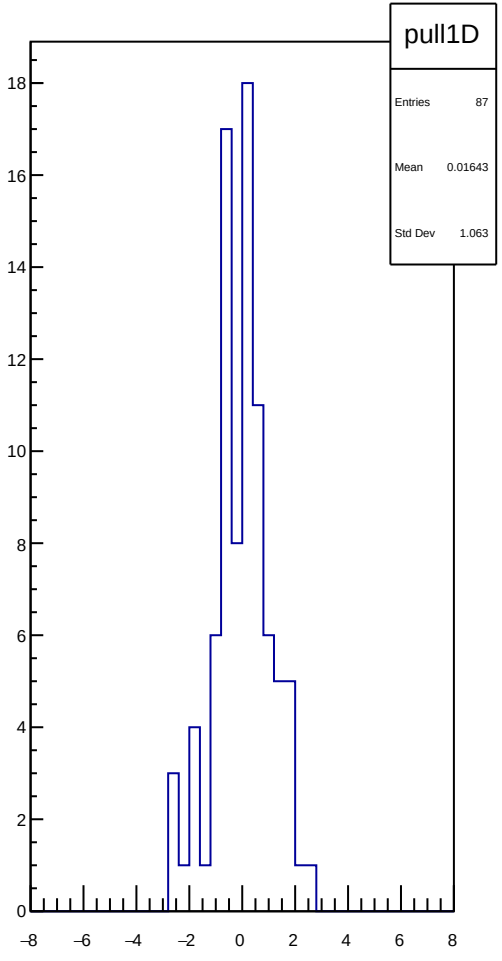

cor_asym_sam5_rms vs run
χ² / ndf 3623 / 86
p0 132.6 ± 0.1022
170
160
150
140
130
120

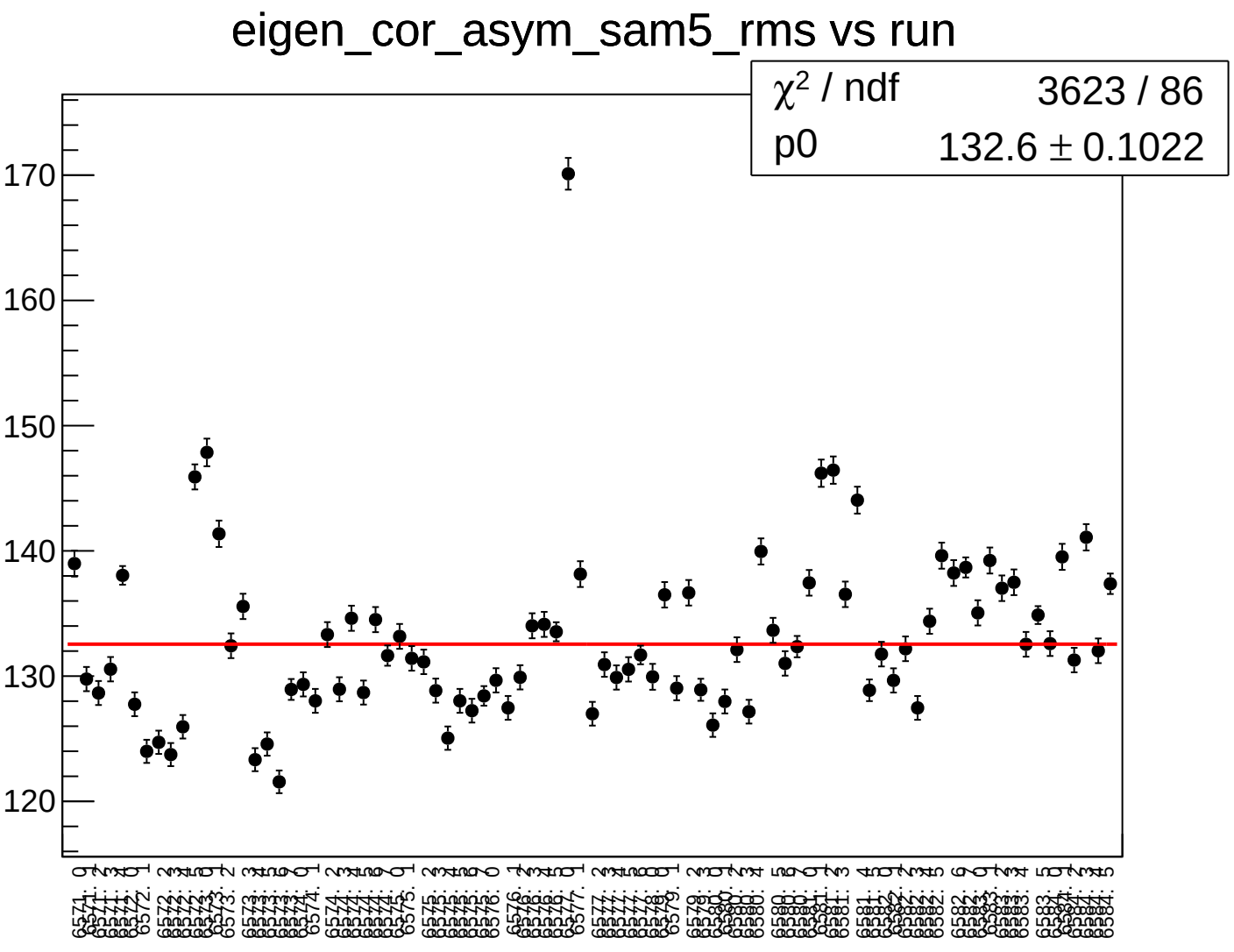

asym_sam5_cor_correction_mean vs run
χ² / ndf 114 / 86
p0 824.6 ± 898.3
pull
Entries 87
Mean 244.9
Std Dev 0

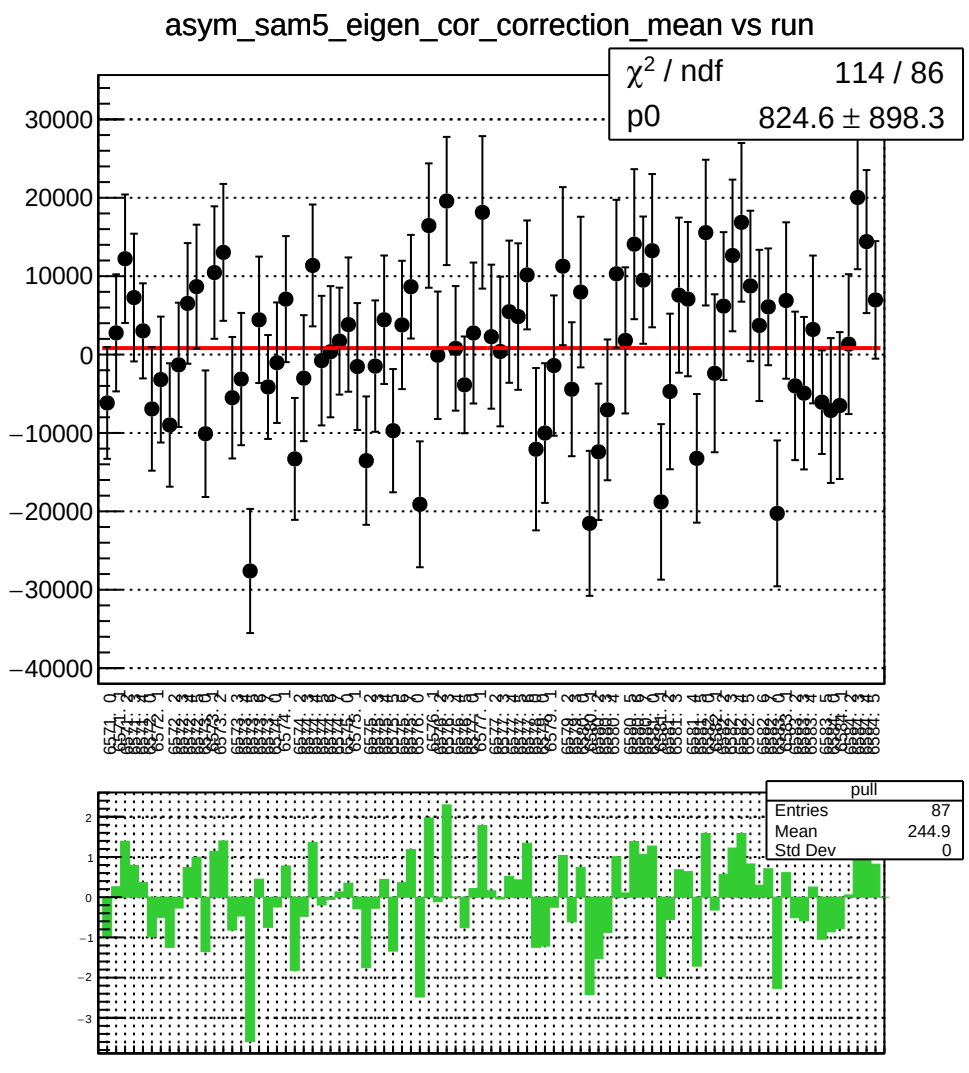

pull1D
Entries 87
Mean 0.01503
Std Dev 1.144

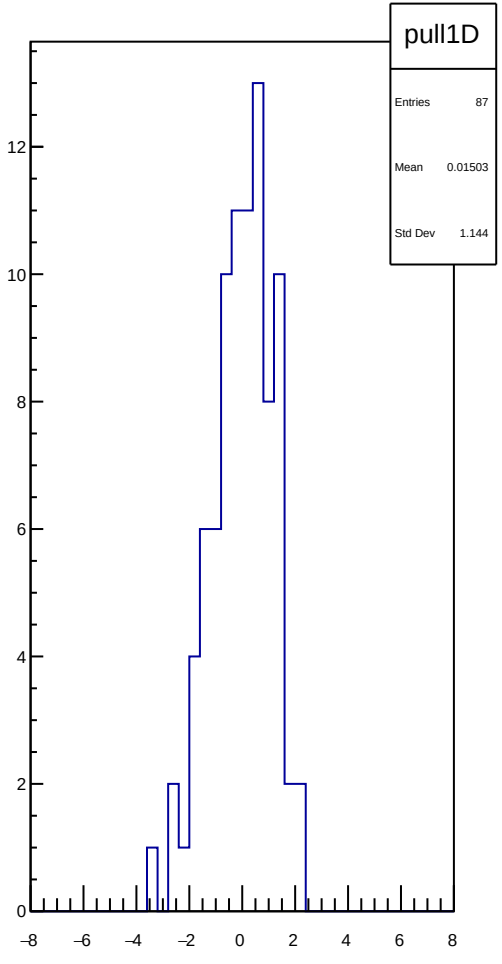

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.268e+04 / 86
p0 821.8 ± 0.6352
950
900
850
800
750
700
650

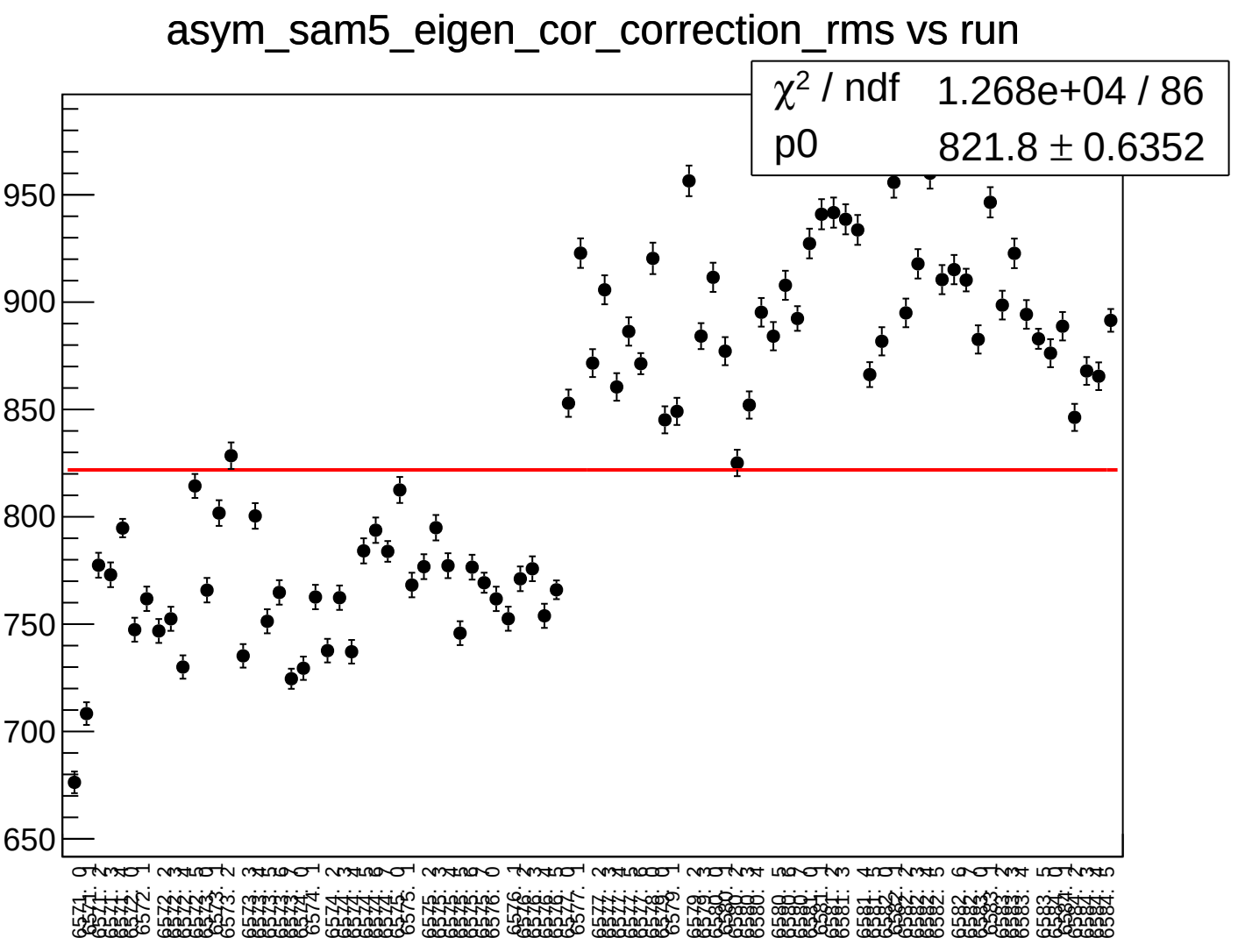

eigen_cor_asym_sam5_mean vs run
χ² / ndf 98.33 / 86
p0 364.6 ± 144.5
pull
Entries 87
Mean 126.5
Std Dev 0

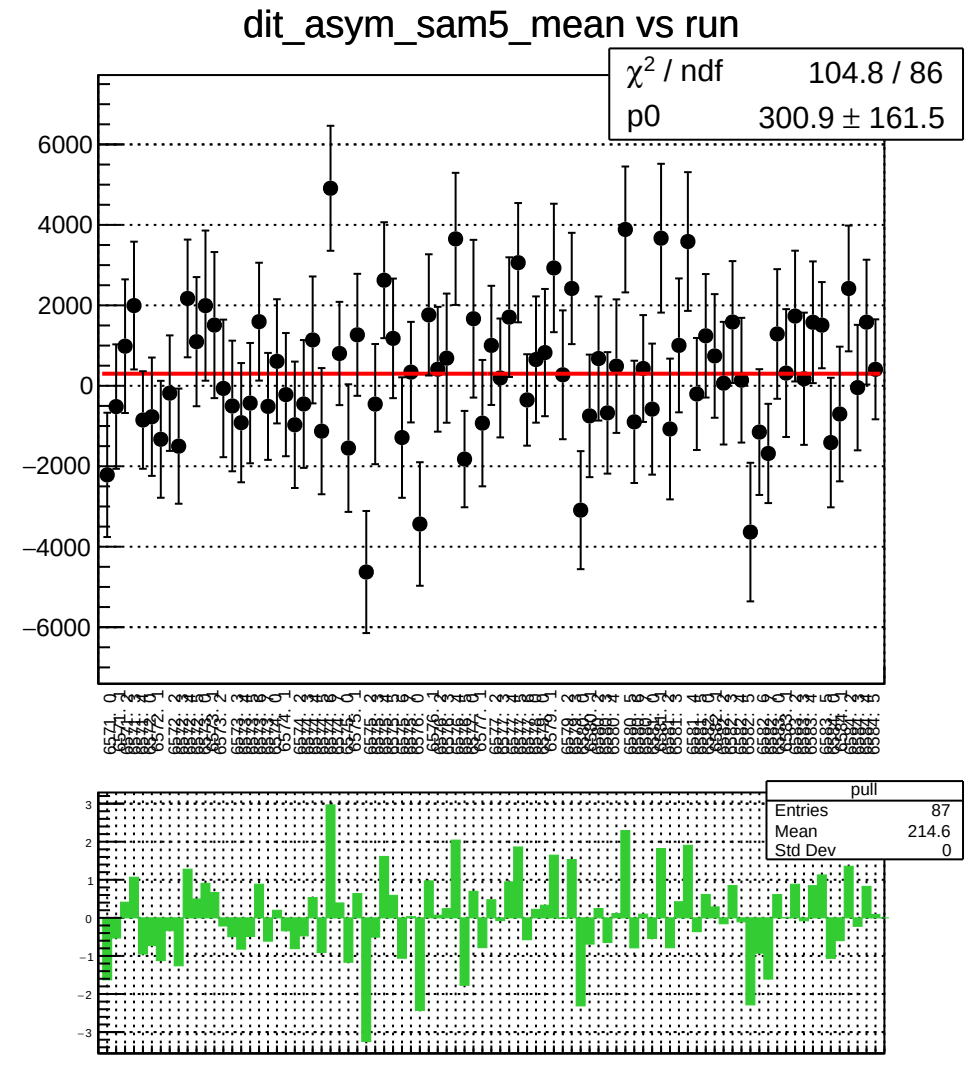

pull1D
Entries 87
Mean 0.01643
Std Dev 1.063

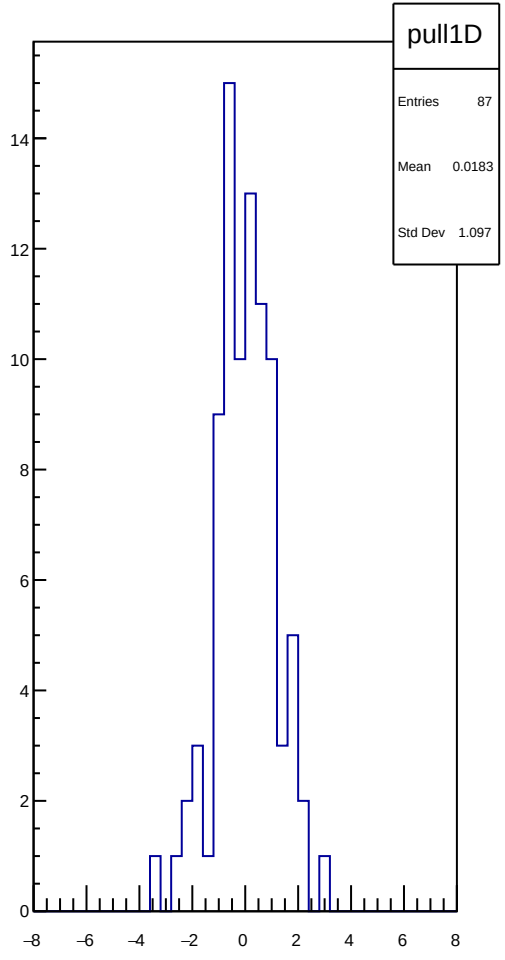

eigen_cor_asym_sam5_rms vs run
χ² / ndf 3623 / 86
p0 132.6 ± 0.1022
170
160
150
140
130
120

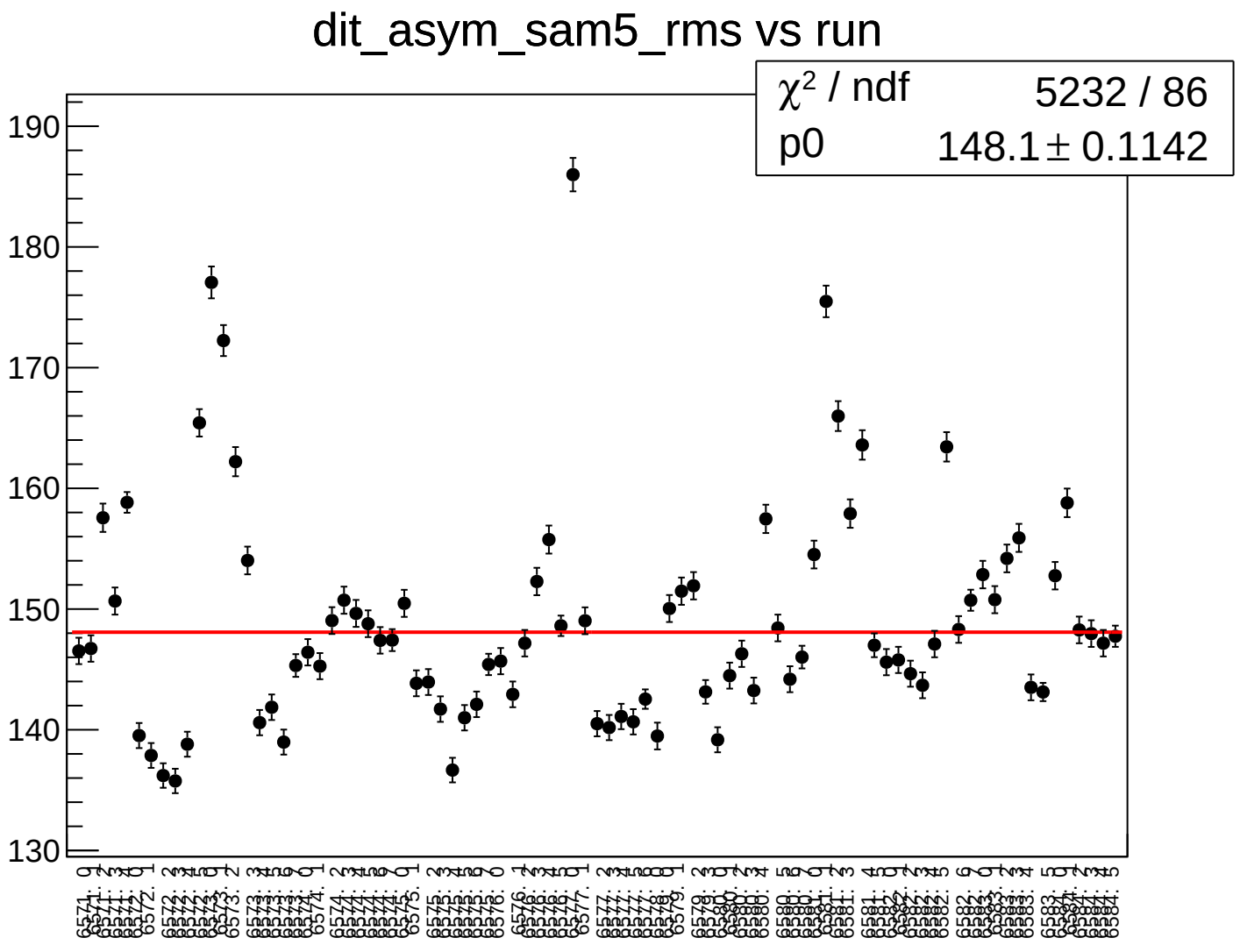

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 114 / 86
p0 824.6 ± 898.3
pull
Entries 87
Mean 244.9
Std Dev 0

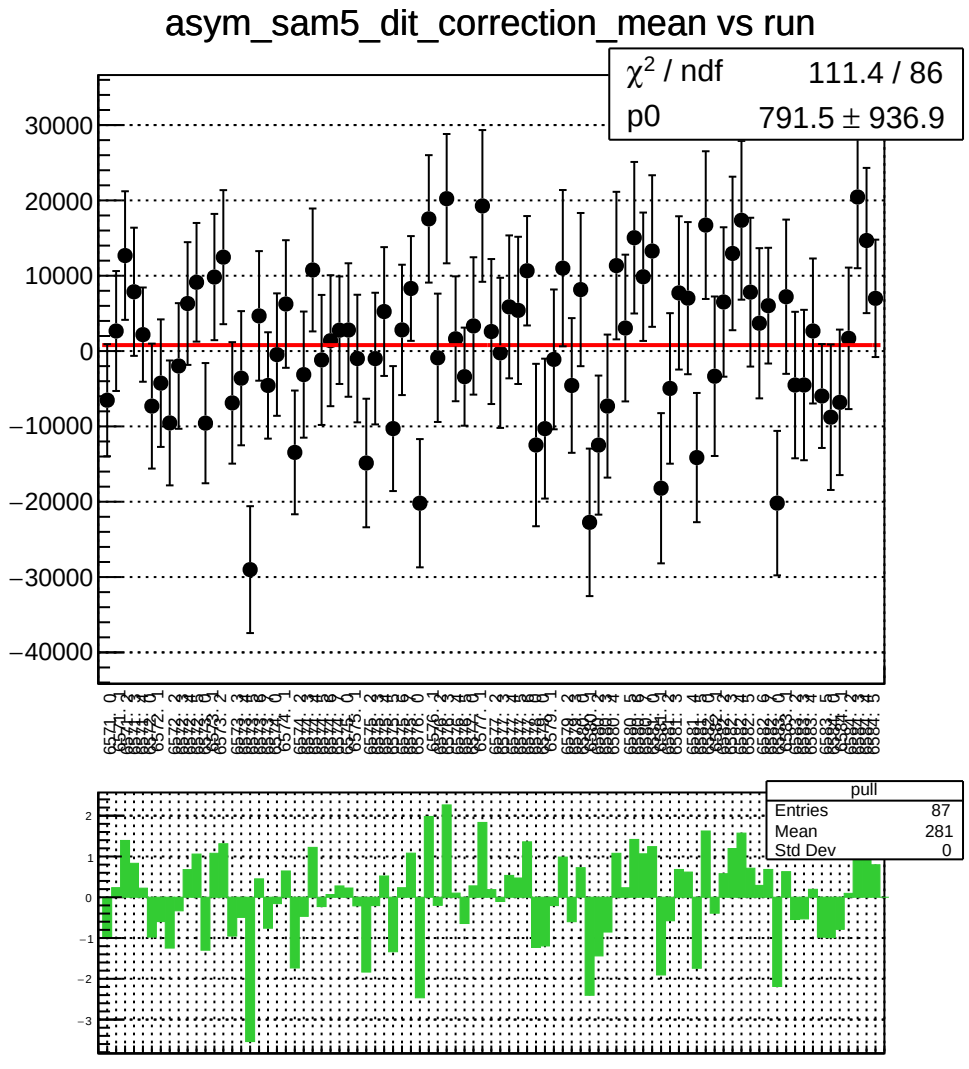

pull1D
Entries 87
Mean 0.01503
Std Dev 1.144

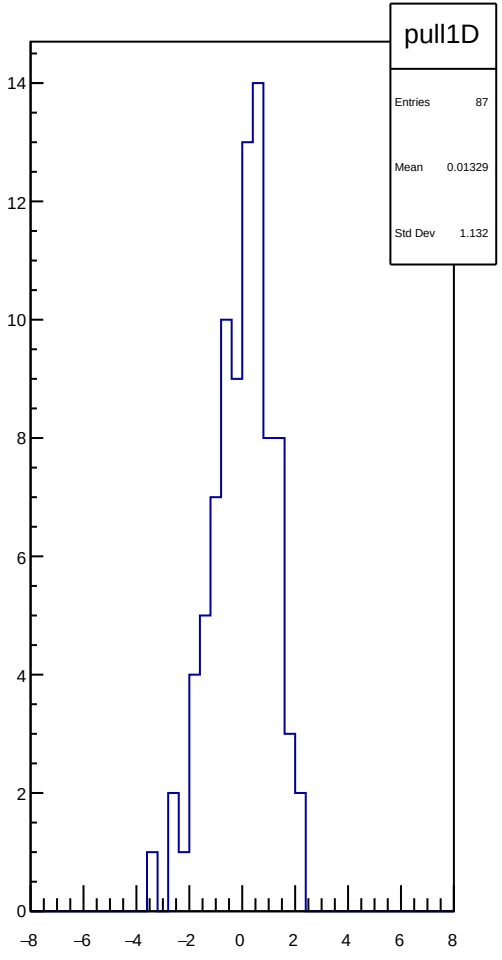

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1.268e+04 / 86
p0 821.8 ± 0.6352
950
900
850
800
750
700
650

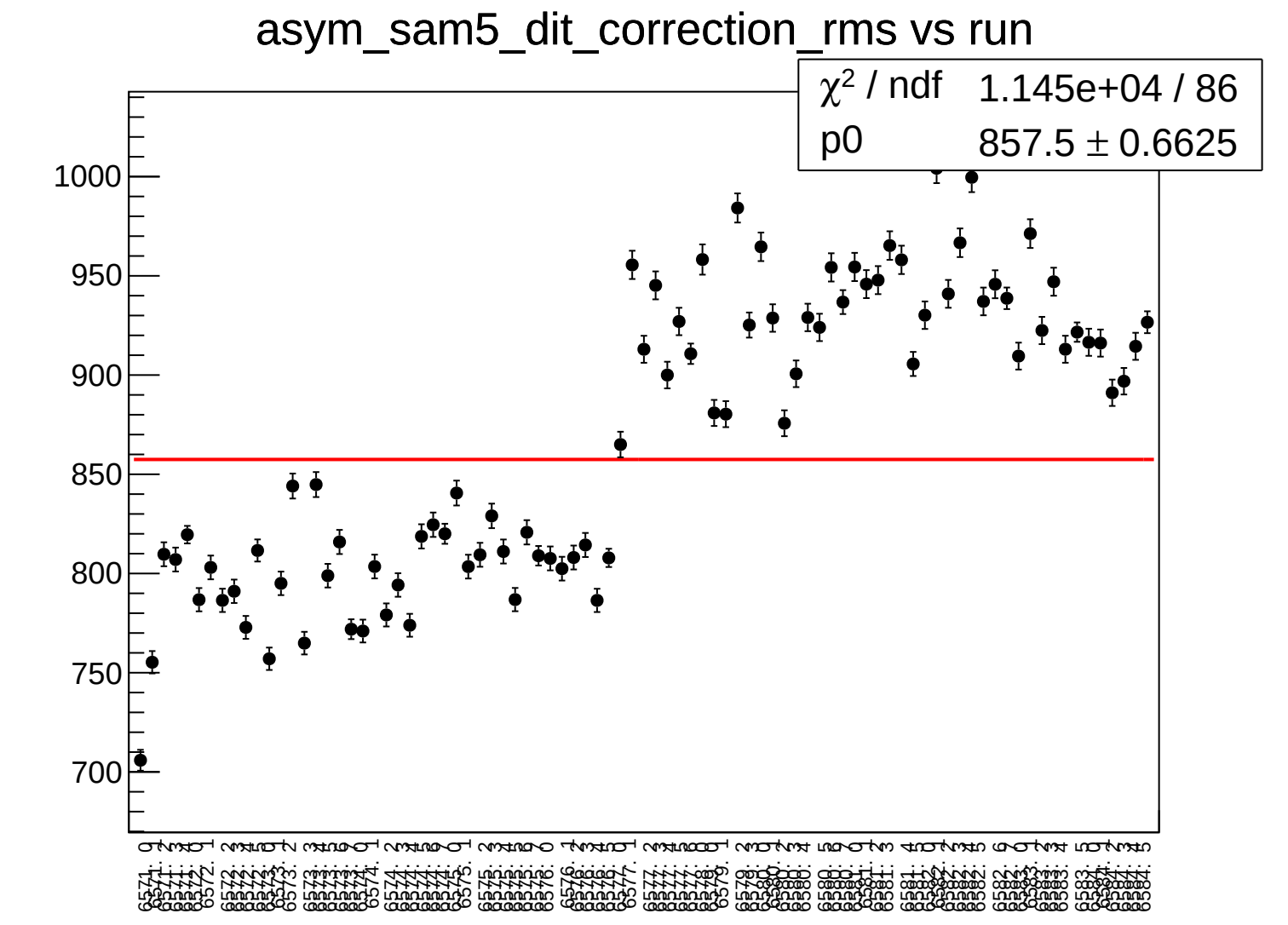

dit_asym_sam5_mean vs run
χ² / ndf 104.8 / 86
p0 300.9 ± 161.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 214.6
Std Dev 0
3
2
1
0
−1
−2
−3

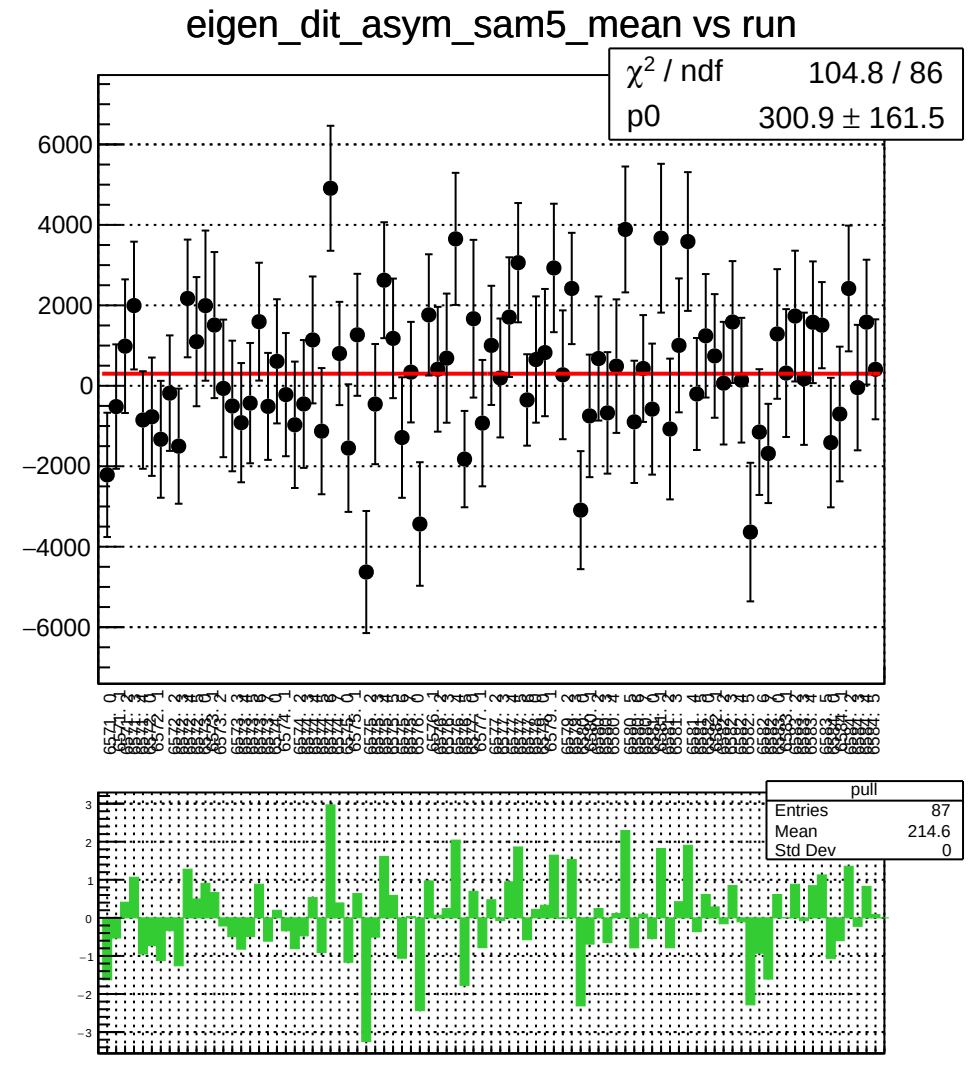

pull1D
Entries 87
Mean 0.0183
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

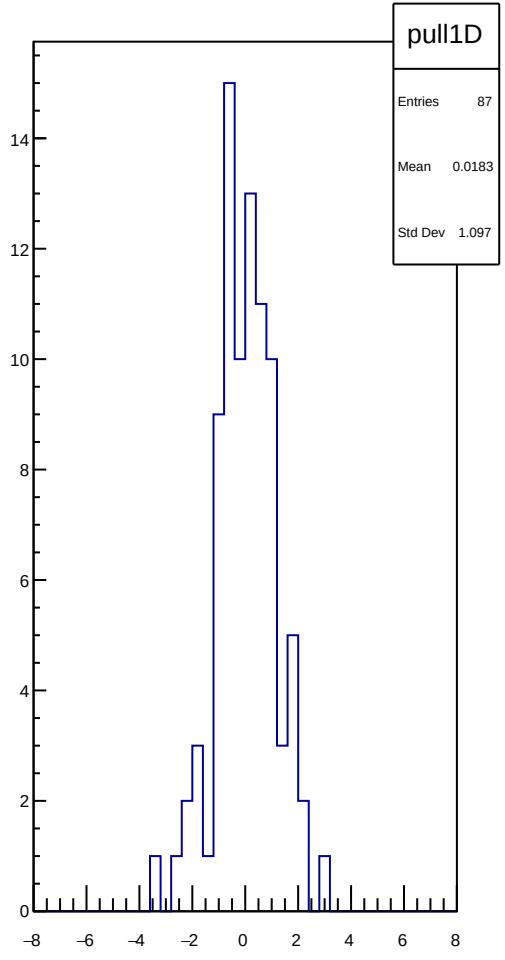

dit_asym_sam5_rms vs run
χ² / ndf 5232 / 86
p0 148.1 ± 0.1142
190
180
170
160
150
140
130

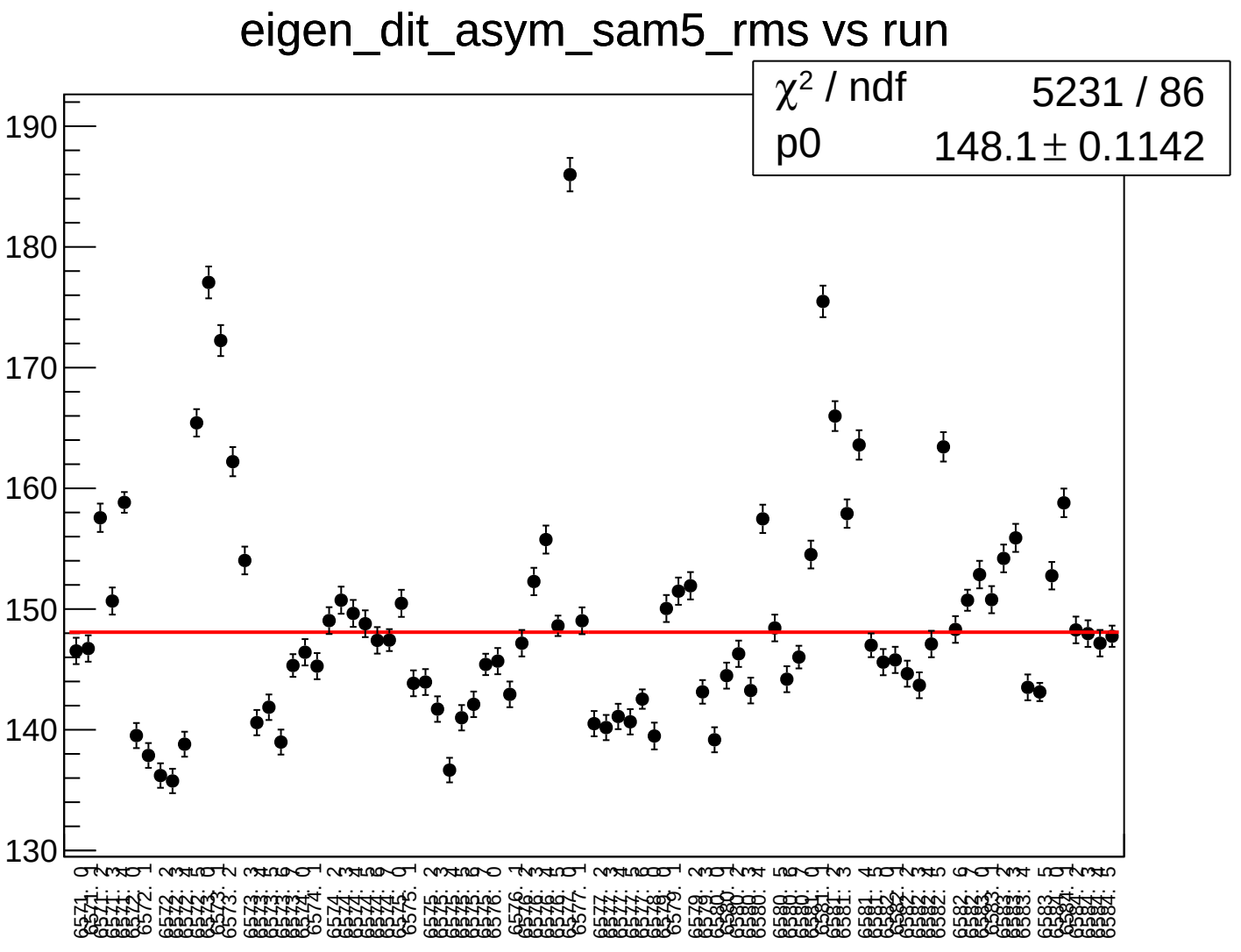

asym_sam5_dit_correction_mean vs run
χ² / ndf 111.4 / 86
p0 791.5 ± 936.9
pull
Entries 87
Mean 281
Std Dev 0

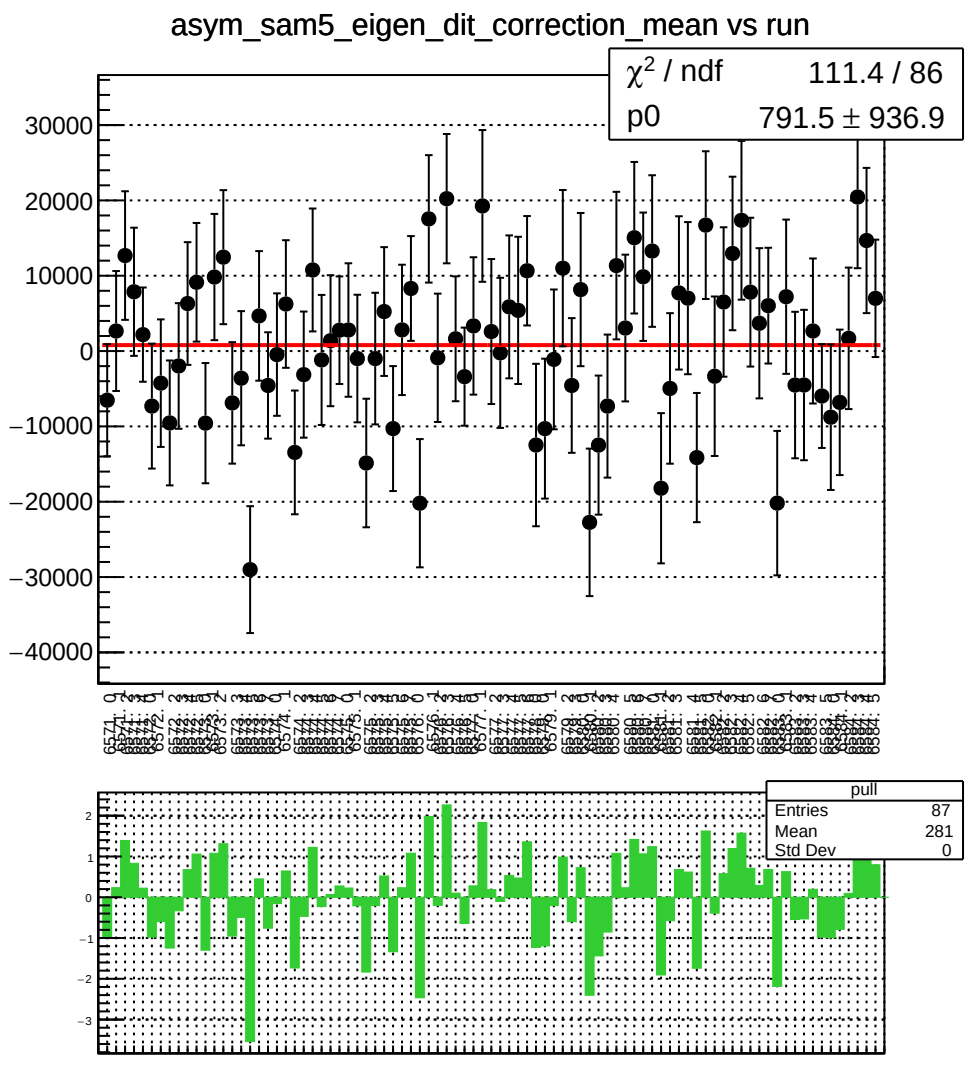

pull1D
Entries 87
Mean 0.01329
Std Dev 1.132

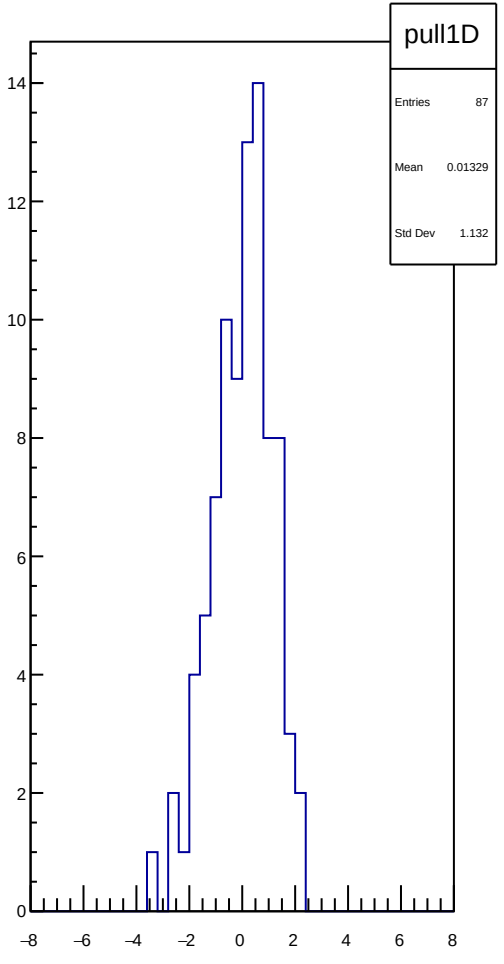

asym_sam5_dit_correction_rms vs run
χ² / ndf 1.145e+04 / 86
p0 857.5 ± 0.6625
1000
950
900
850
800
750
700

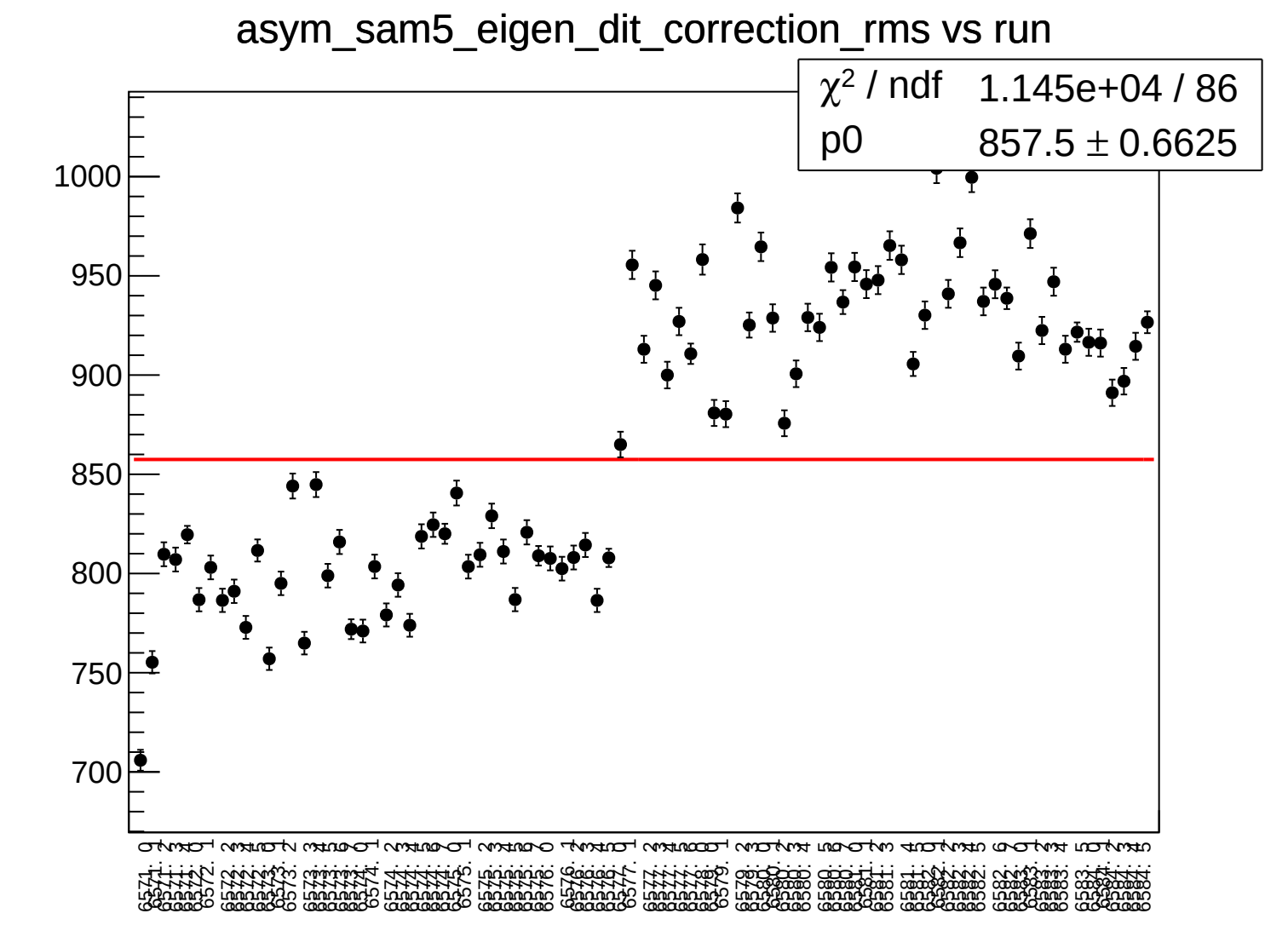

eigen_dit_asym_sam5_mean vs run
χ² / ndf 104.8 / 86
p0 300.9 ± 161.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 214.6
Std Dev 0
3
2
1
0
−1
−2
−3

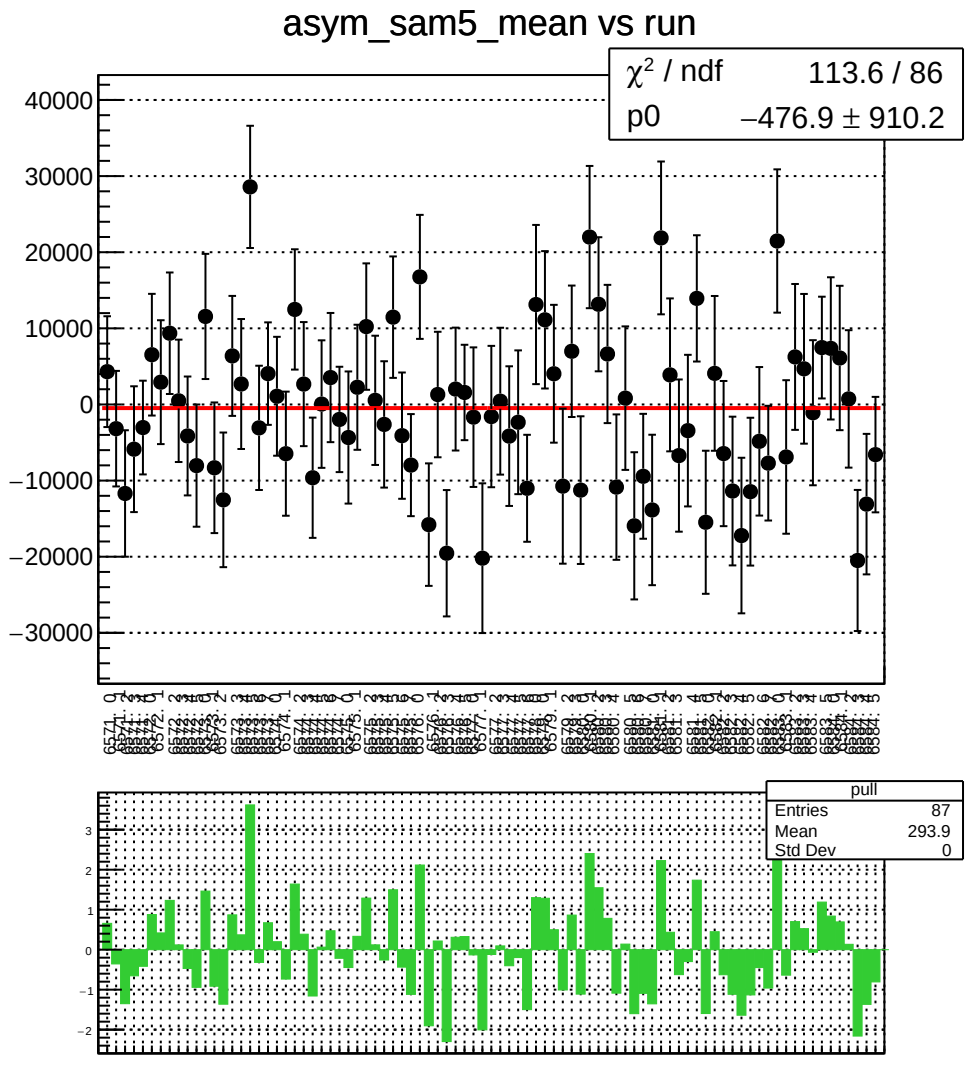

pull1D
Entries 87
Mean 0.0183
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

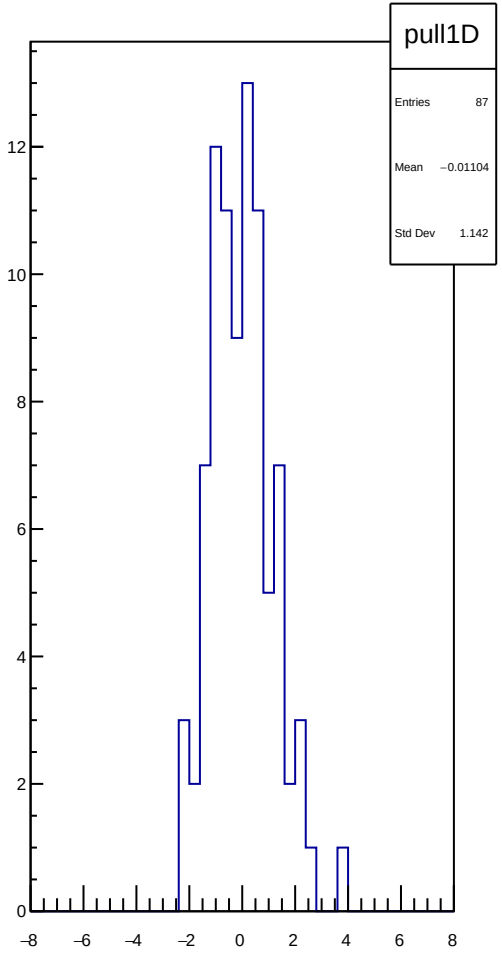

eigen_dit_asym_sam5_rms vs run
χ² / ndf 5231 / 86
p0 148.1 ± 0.1142
190
180
170
160
150
140
130

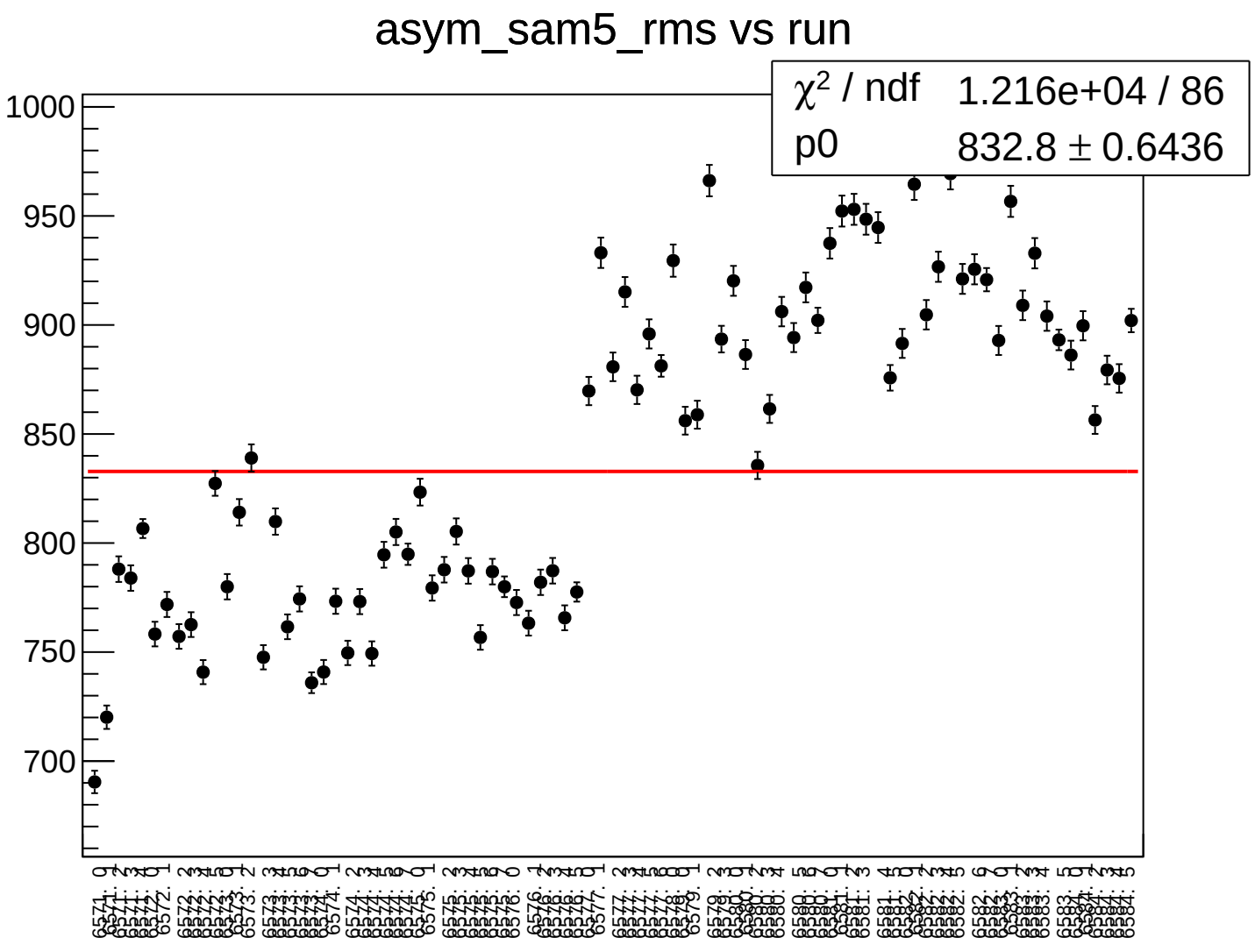

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 111.4 / 86
p0 791.5 ± 936.9
pull
Entries 87
Mean 281
Std Dev 0

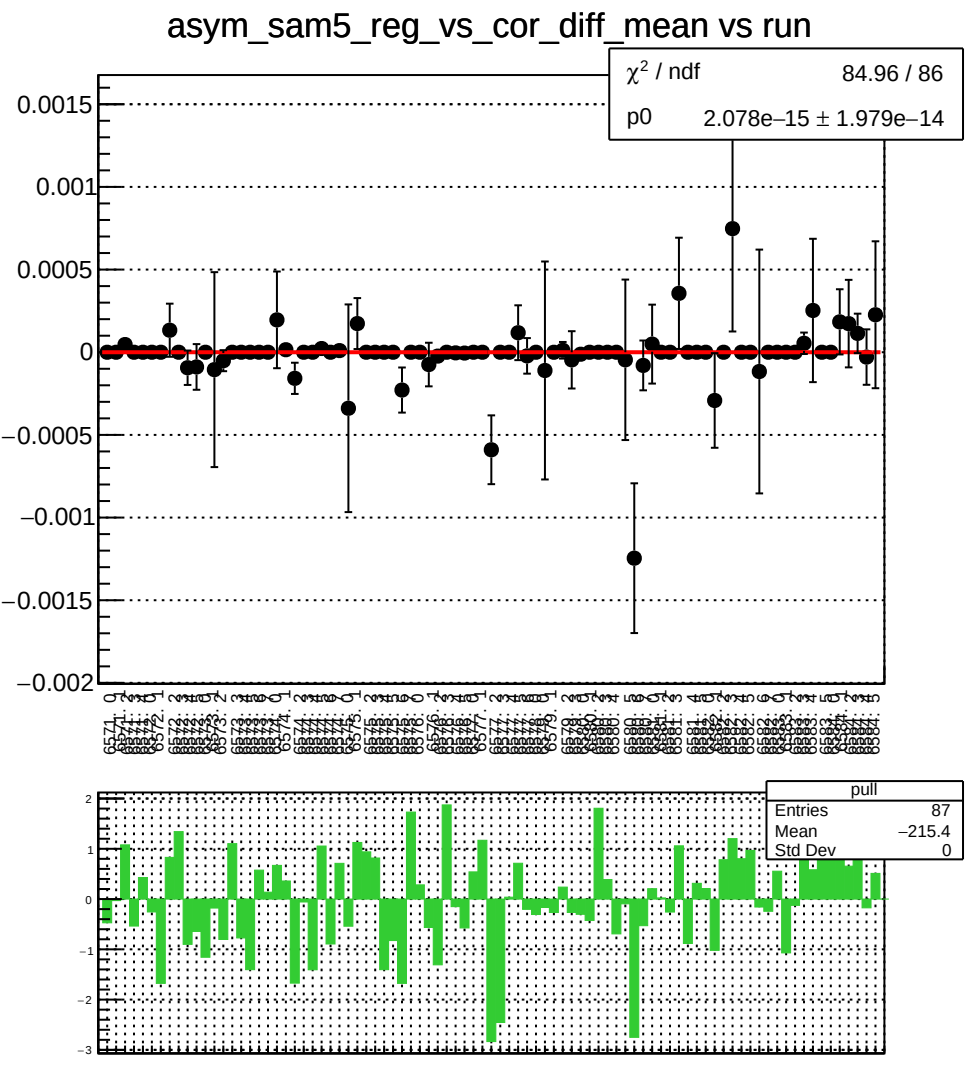

pull1D
Entries 87
Mean 0.01329
Std Dev 1.132

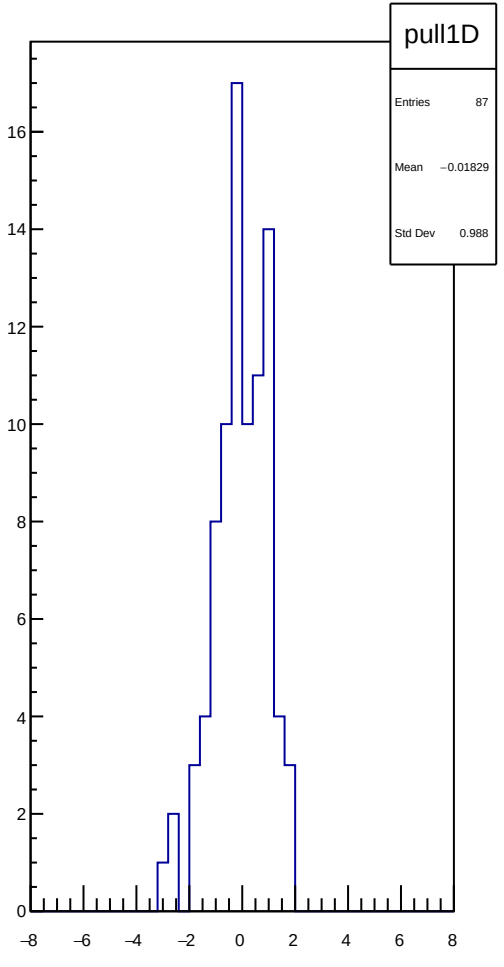

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.145e+04 / 86
p0 857.5 ± 0.6625
1000
950
900
850
800
750
700

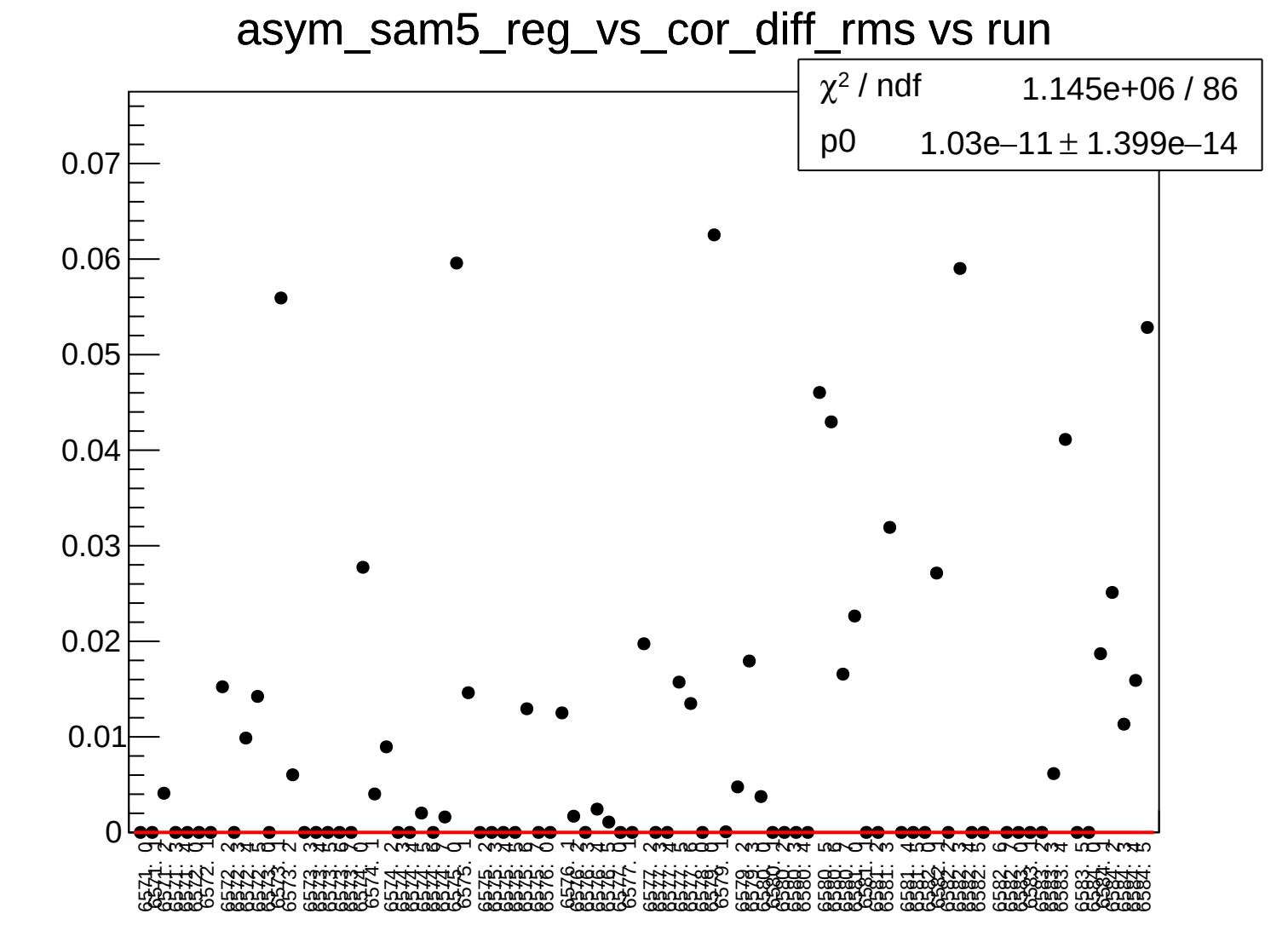

asym_sam5_mean vs run
χ² / ndf 113.6 / 86
p0 −476.9 ± 910.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 293.9
Std Dev 0
3
2
1
0
−1
−2

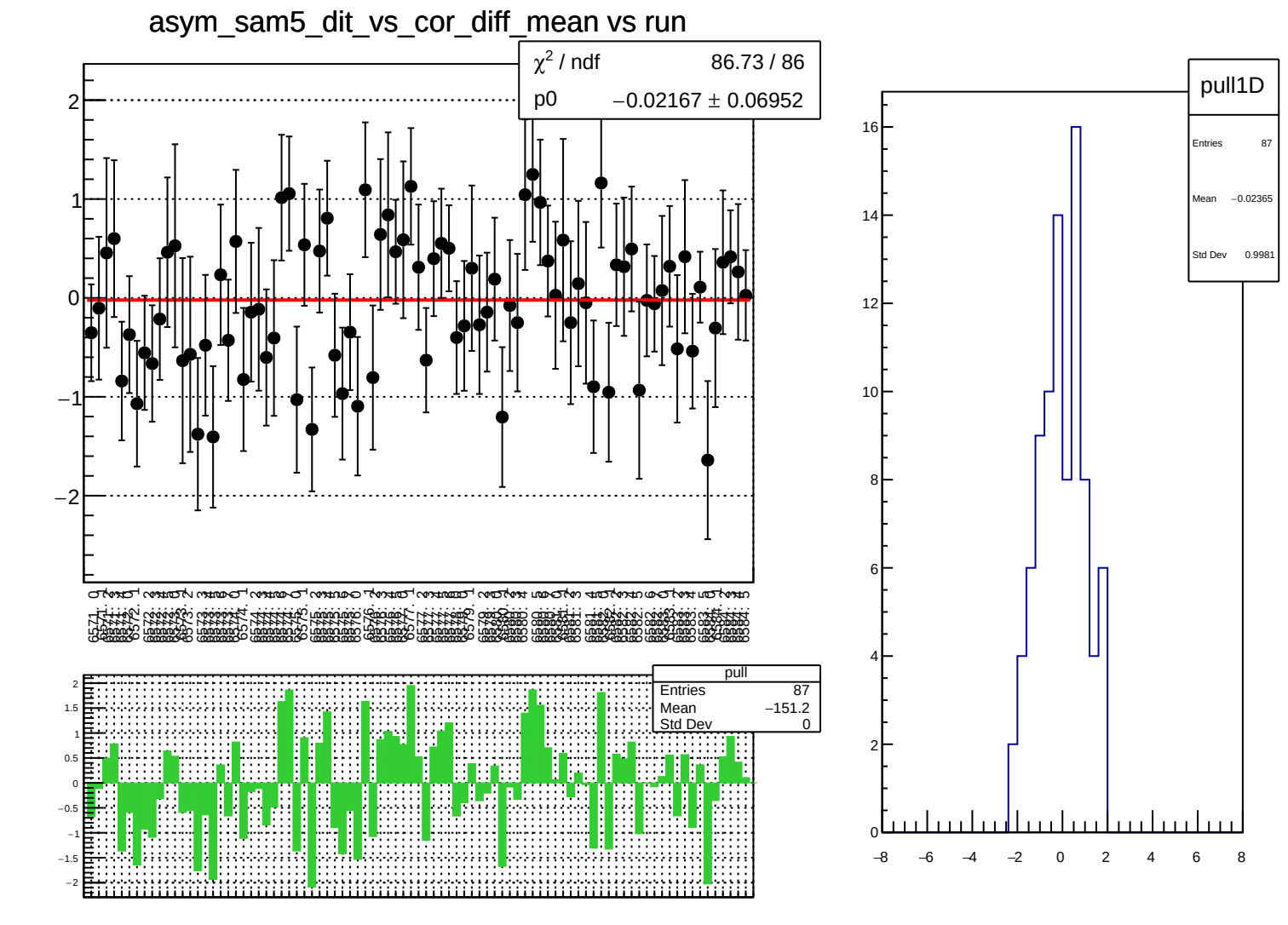

pull1D
Entries 87
Mean −0.01104
Std Dev 1.142
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

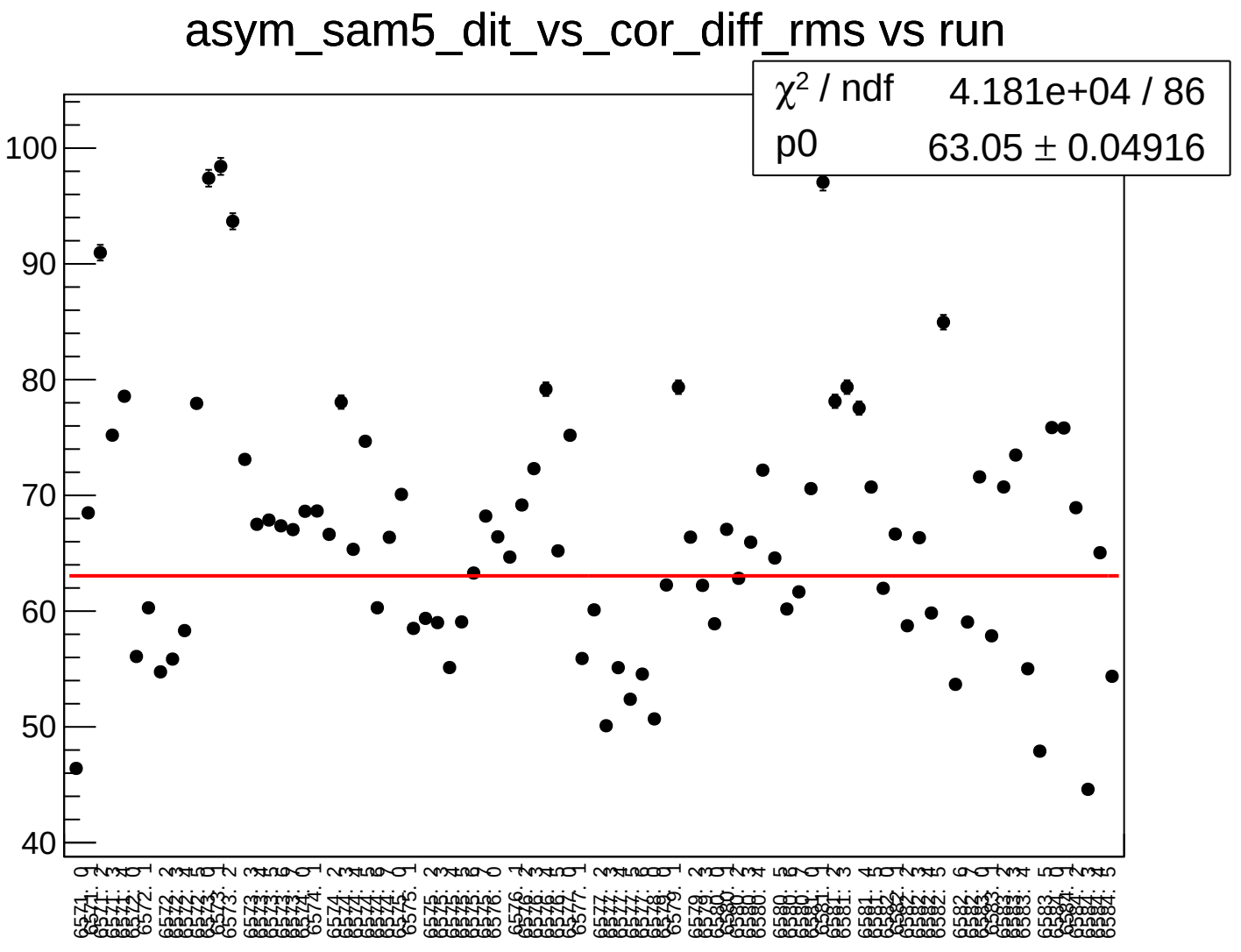

asym_sam5_rms vs run
χ² / ndf 1.216e+04 / 86
p0 832.8 ± 0.6436
1000
950
900
850
800
750
700

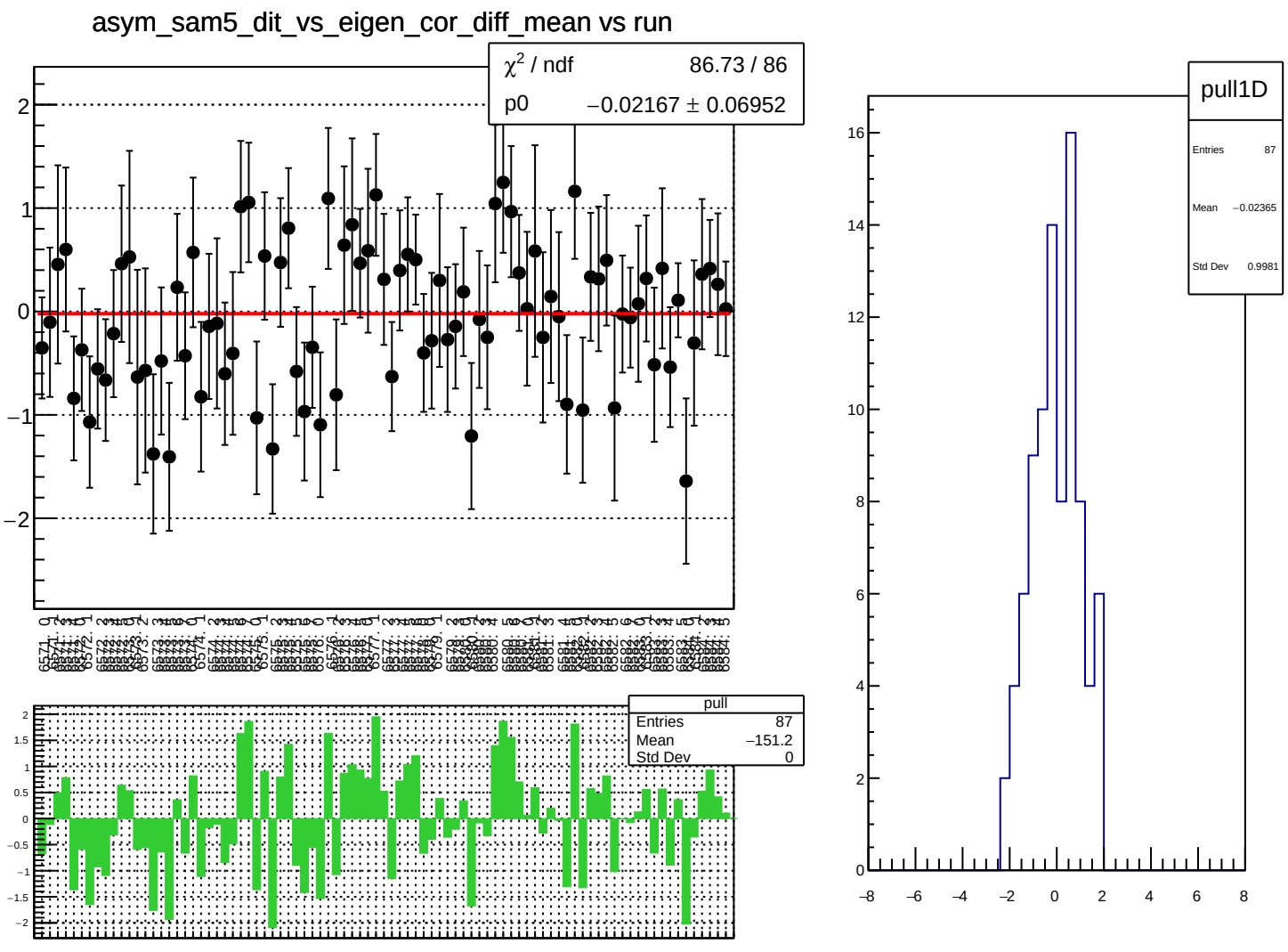

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 84.96 / 86
p0 2.078e−15 ± 1.979e−14
pull
Entries 87
Mean −215.4
Std Dev 0

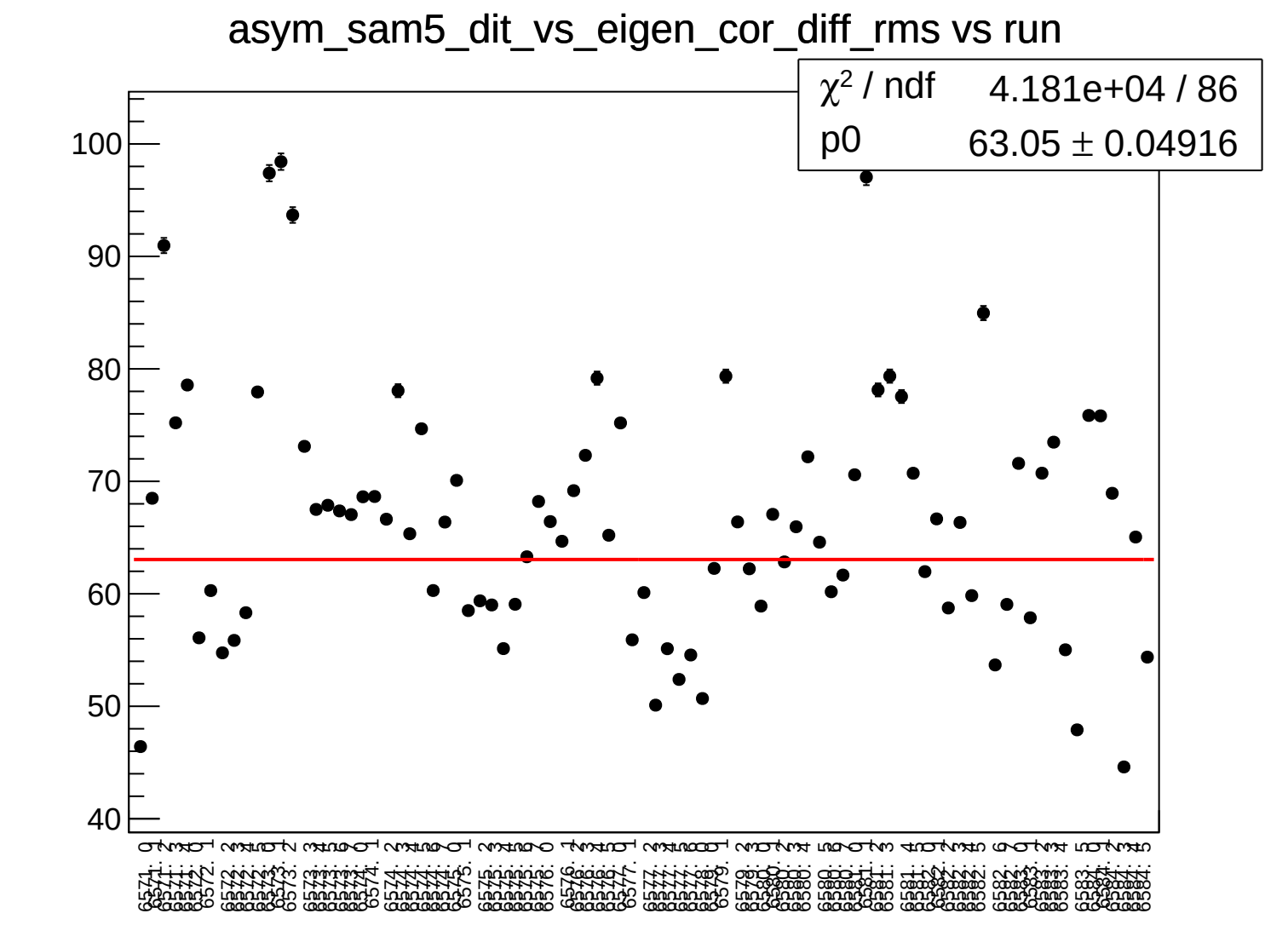

pull1D
Entries 87
Mean −0.01829
Std Dev 0.988

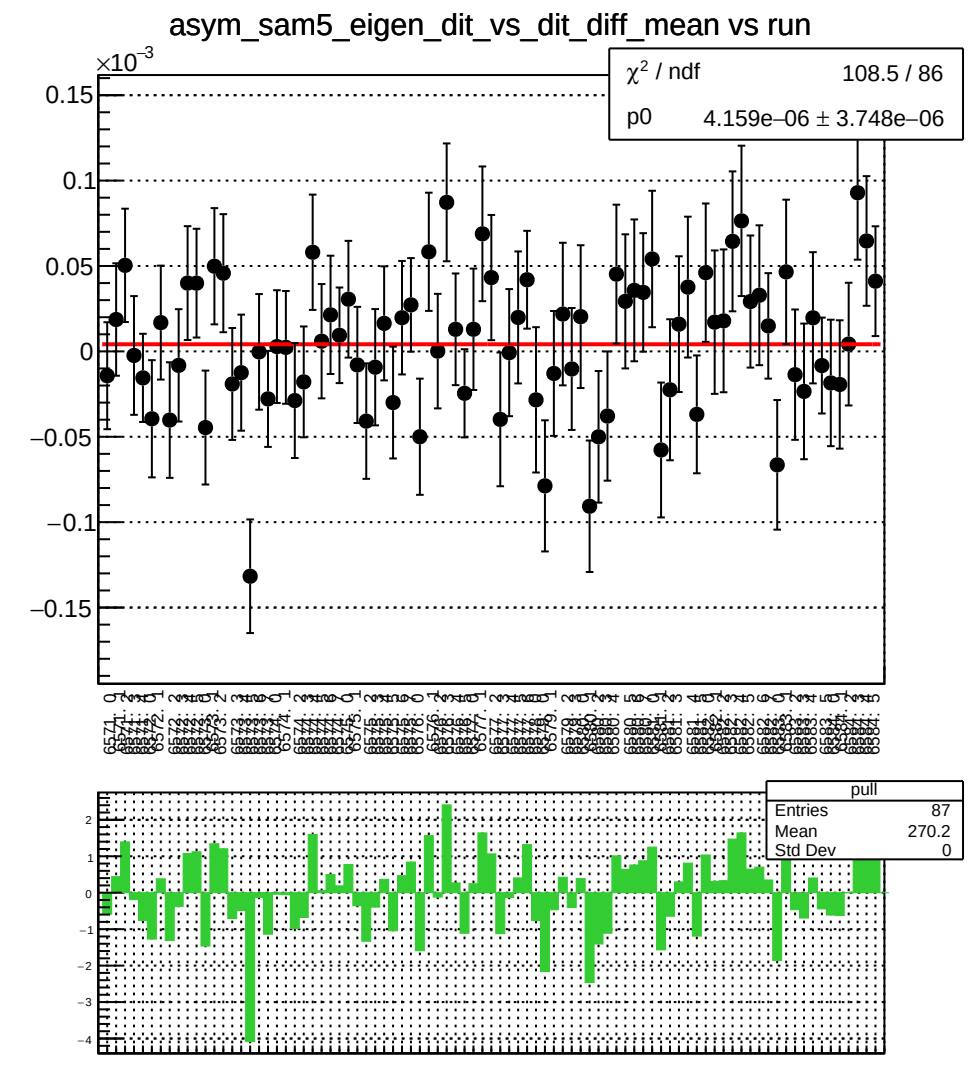

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 86
p0 1.03e−11 ± 1.399e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

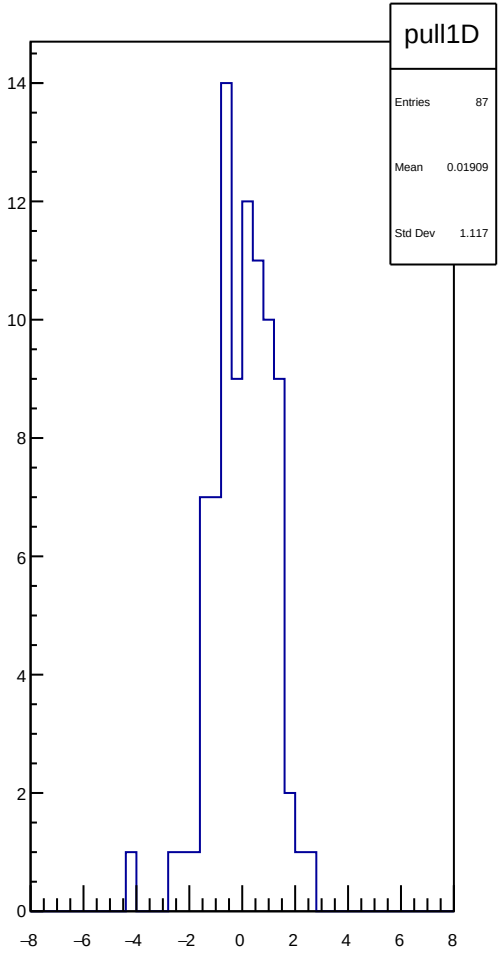

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 86.73 / 86
p0 −0.02167 ± 0.06952
pull
Entries 87
Mean −151.2
Std Dev 0
pull1D
Entries 87
Mean −0.02365
Std Dev 0.9981

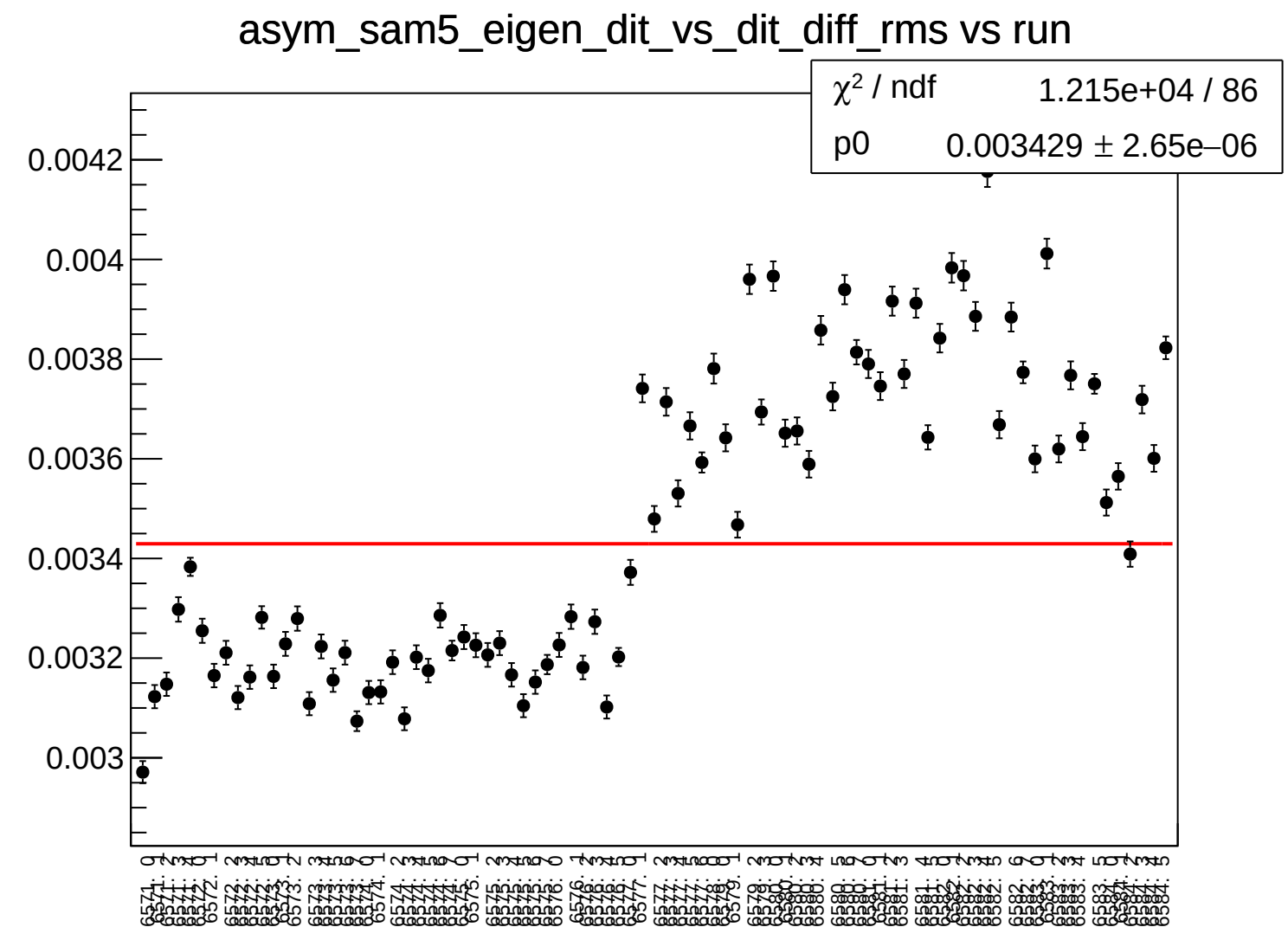

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 4.181e+04 / 86
p0 63.05 ± 0.04916
100
90
80
70
60
50
40

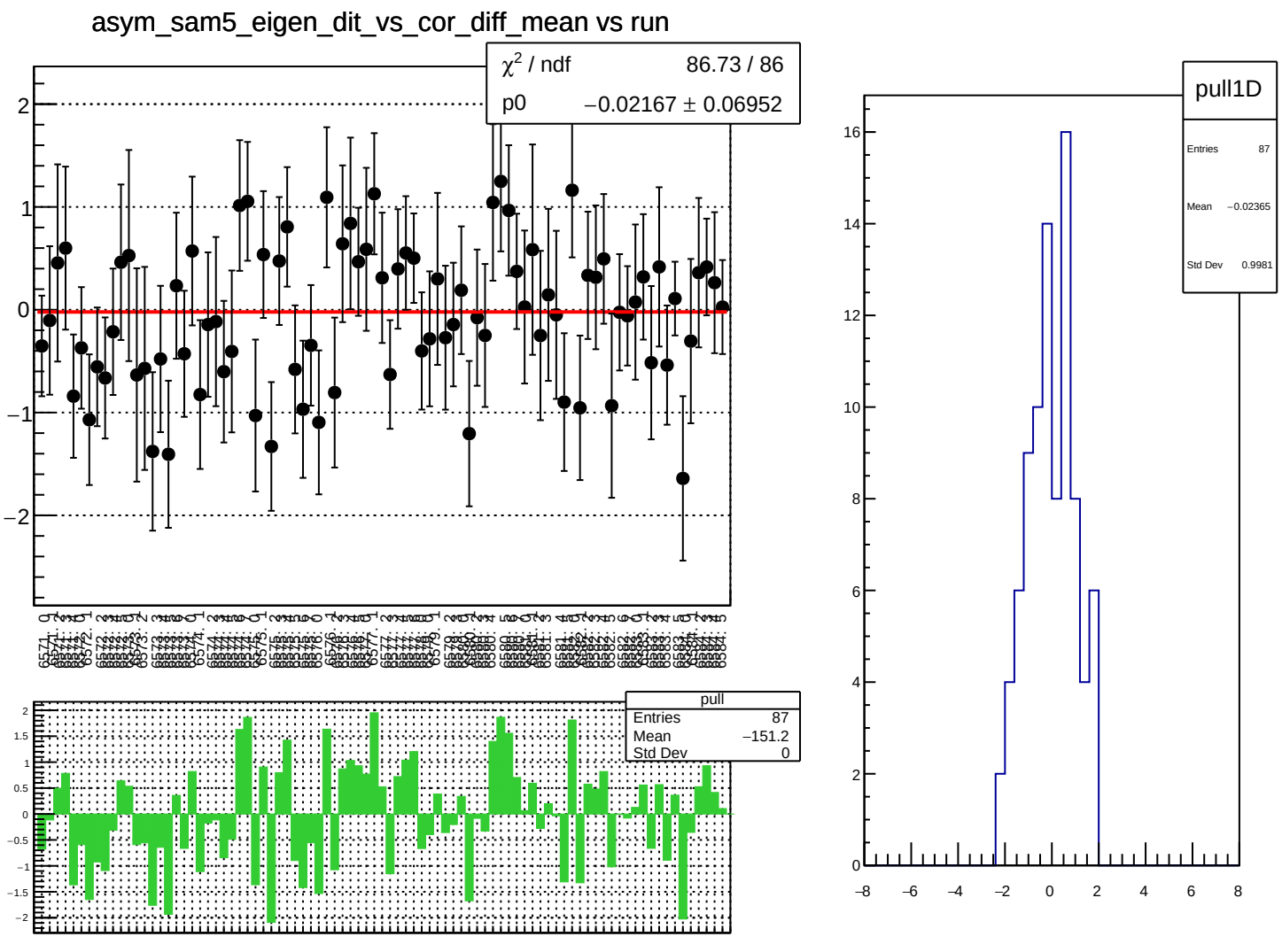

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.73 / 86
p0 −0.02167 ± 0.06952
pull
Entries 87
Mean −151.2
Std Dev 0
pull1D
Entries 87
Mean −0.02365
Std Dev 0.9981

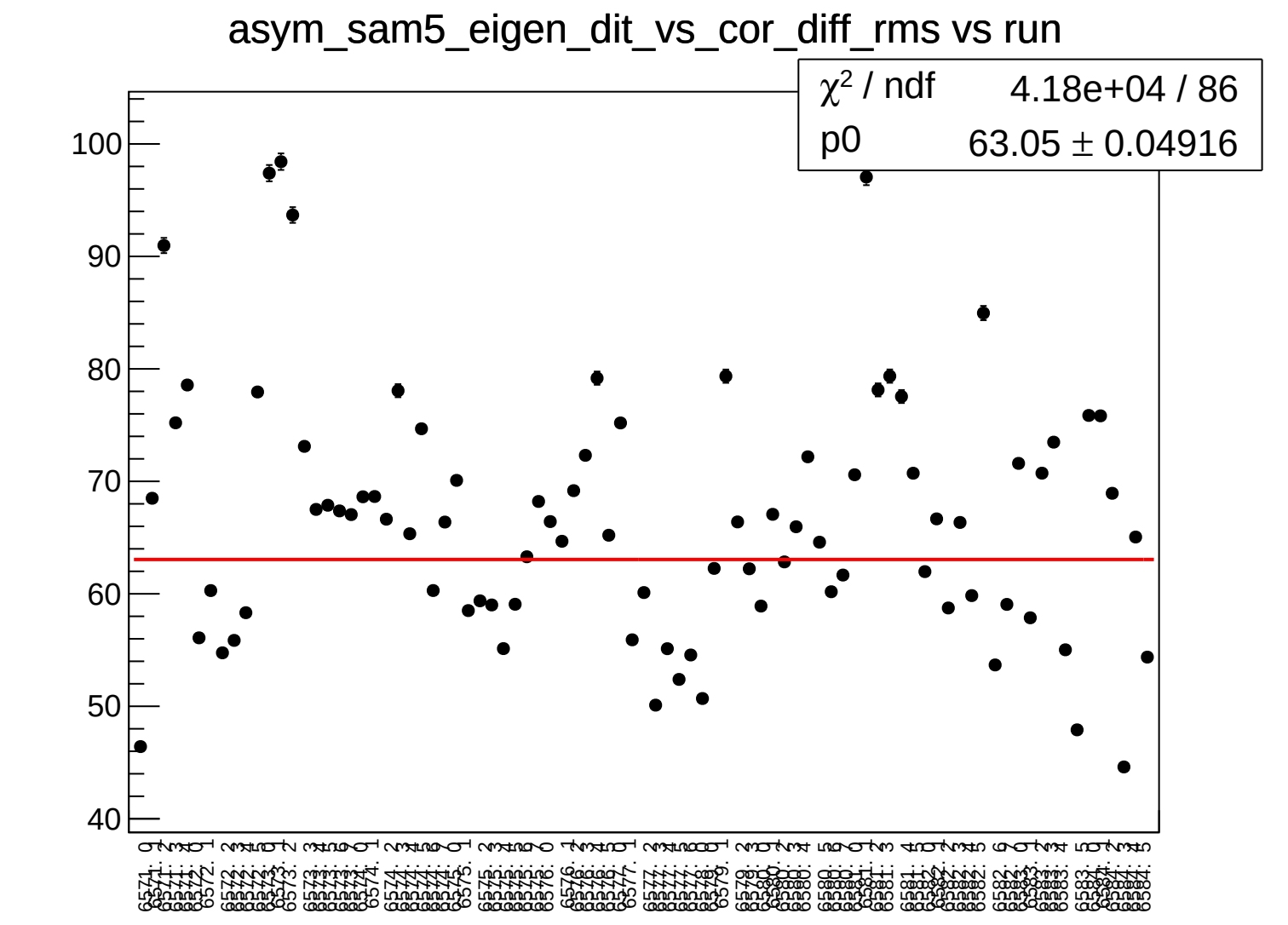

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.181e+04 / 86
p0 63.05 ± 0.04916
100
90
80
70
60
50
40

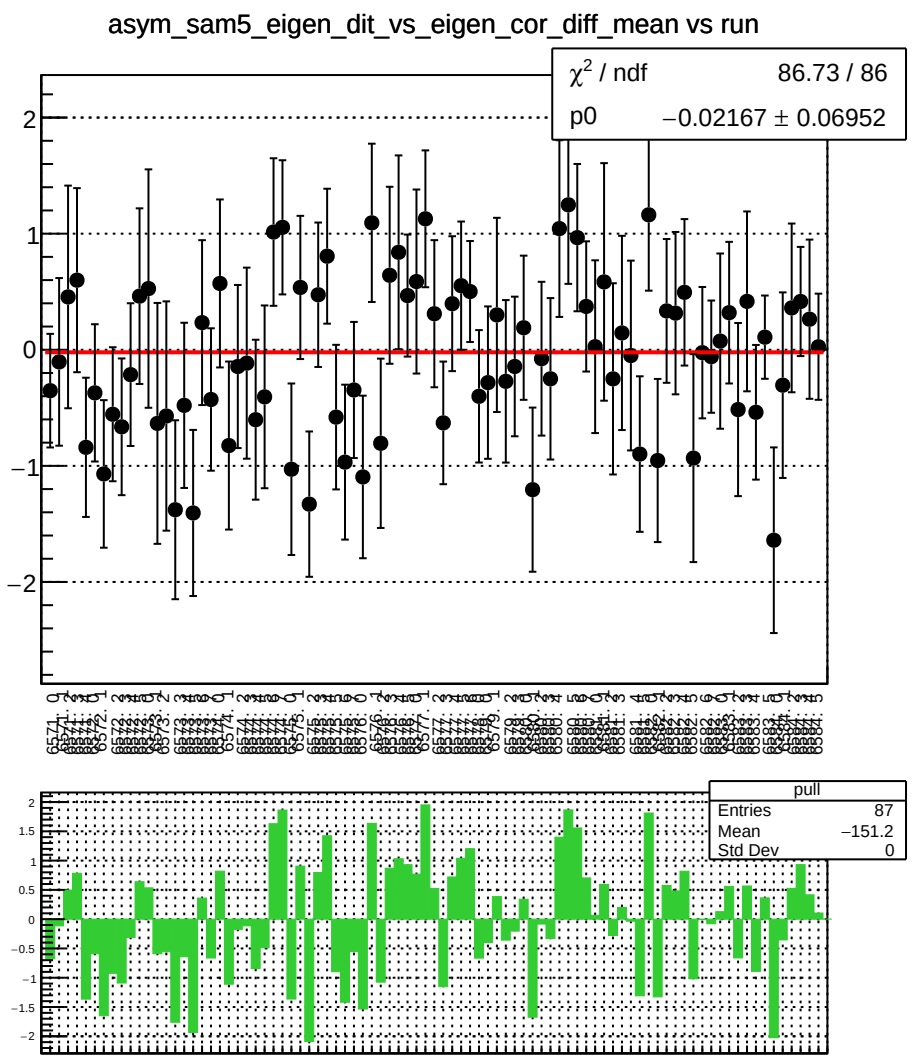

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.5 / 86
p0 4.159e−06 ± 3.748e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean 270.2
Std Dev 0
2
1
0
−1
−2
−3
−4

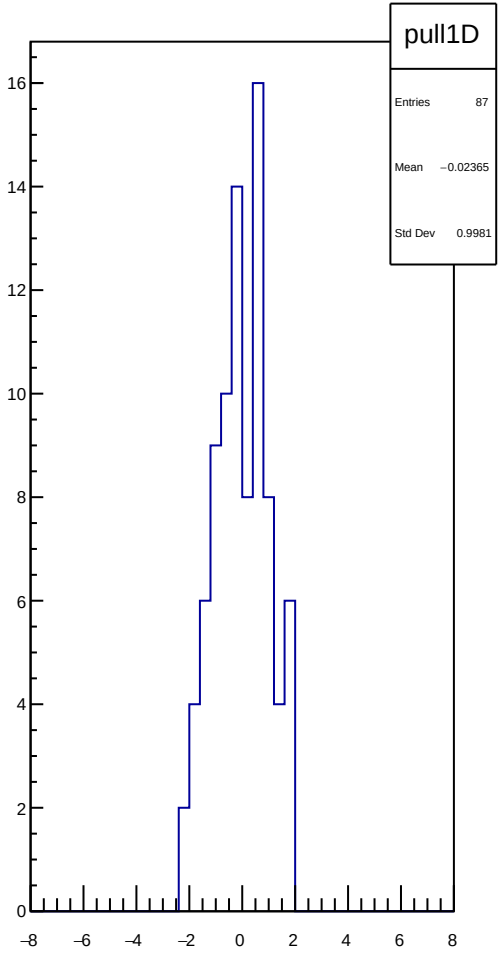

pull1D
Entries 87
Mean 0.01909
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

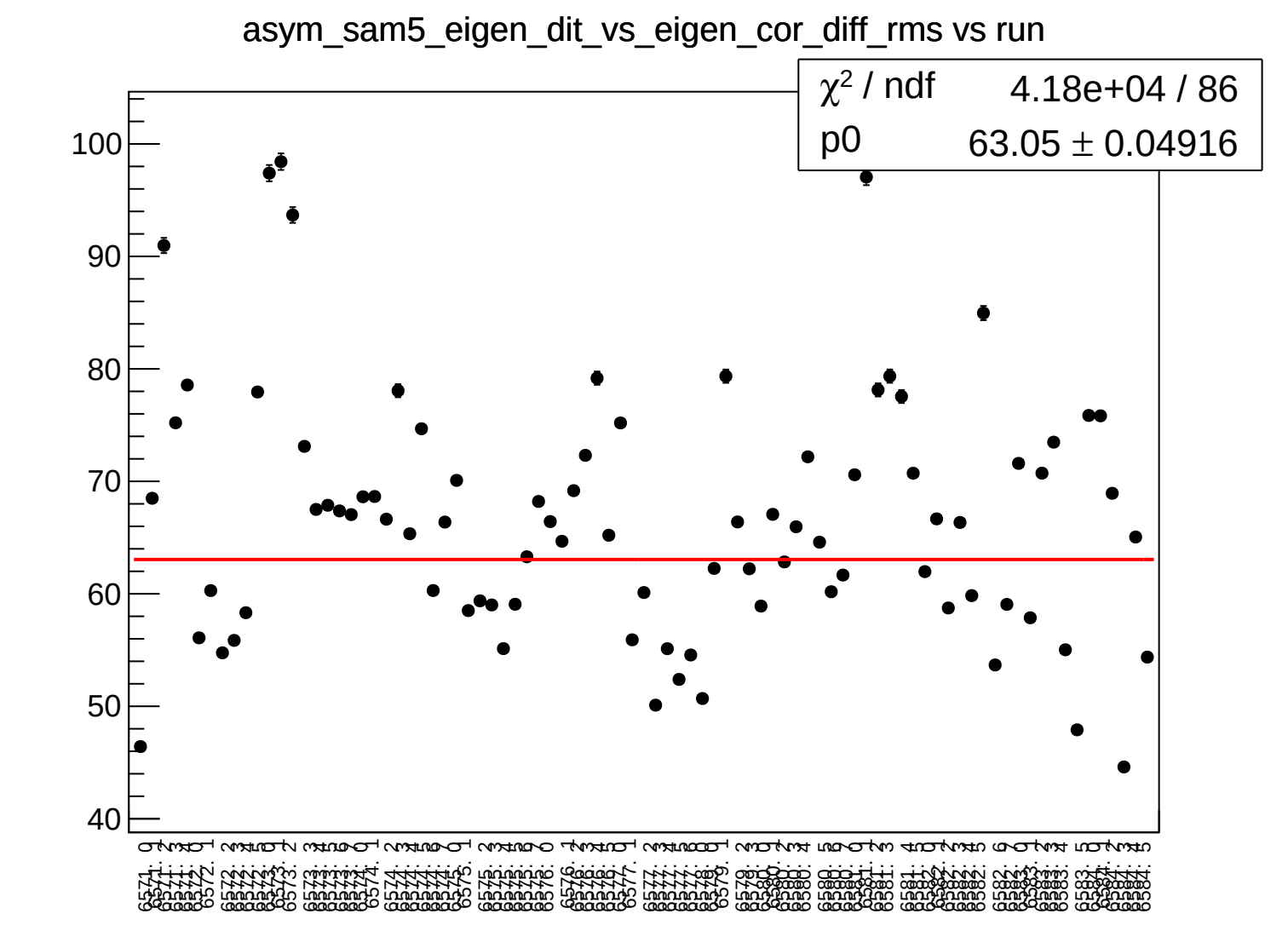

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.215e+04 / 86
p0 0.003429 ± 2.65e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

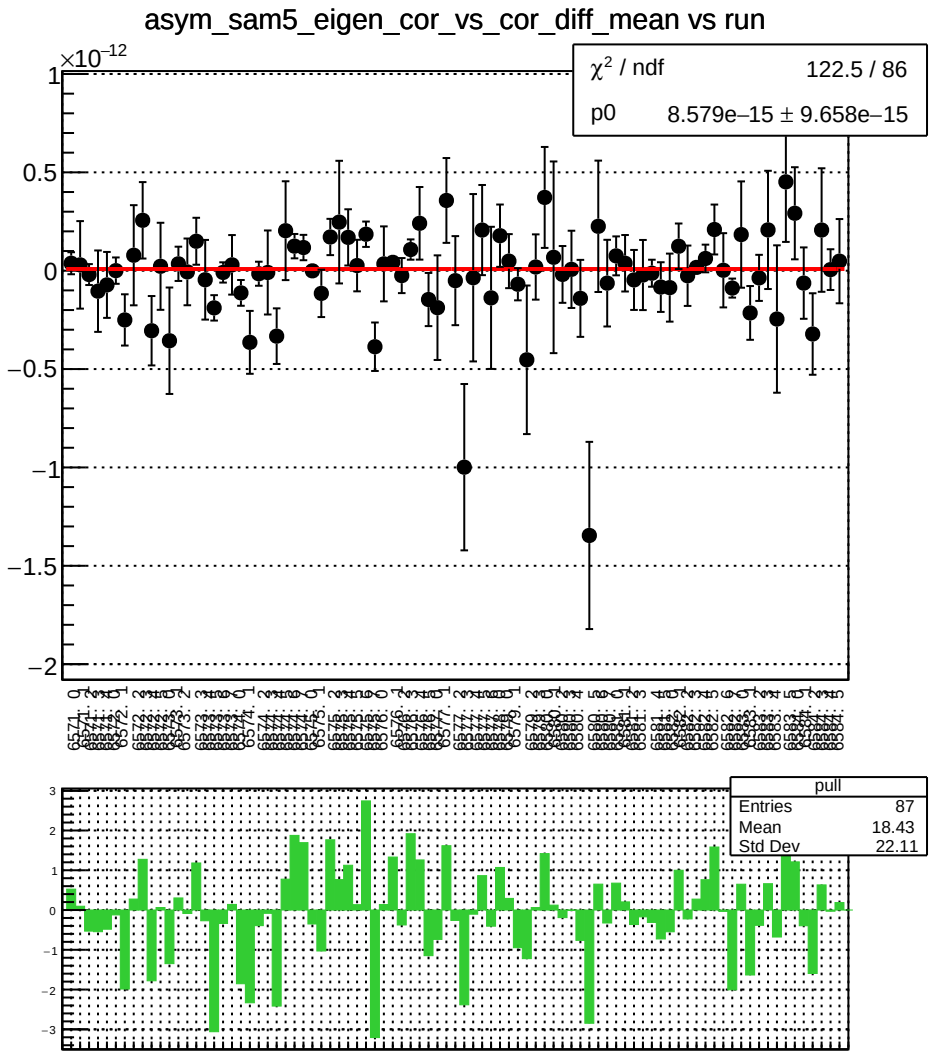

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.73 / 86
p0 −0.02167 ± 0.06952
pull
Entries 87
Mean −151.2
Std Dev 0
pull1D
Entries 87
Mean −0.02365
Std Dev 0.9981

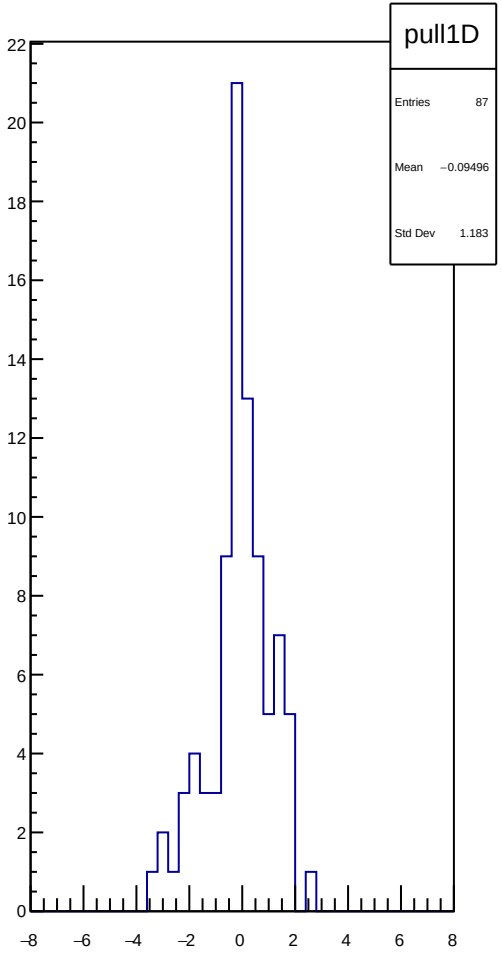

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.18e+04 / 86
p0 63.05 ± 0.04916
100
90
80
70
60
50
40

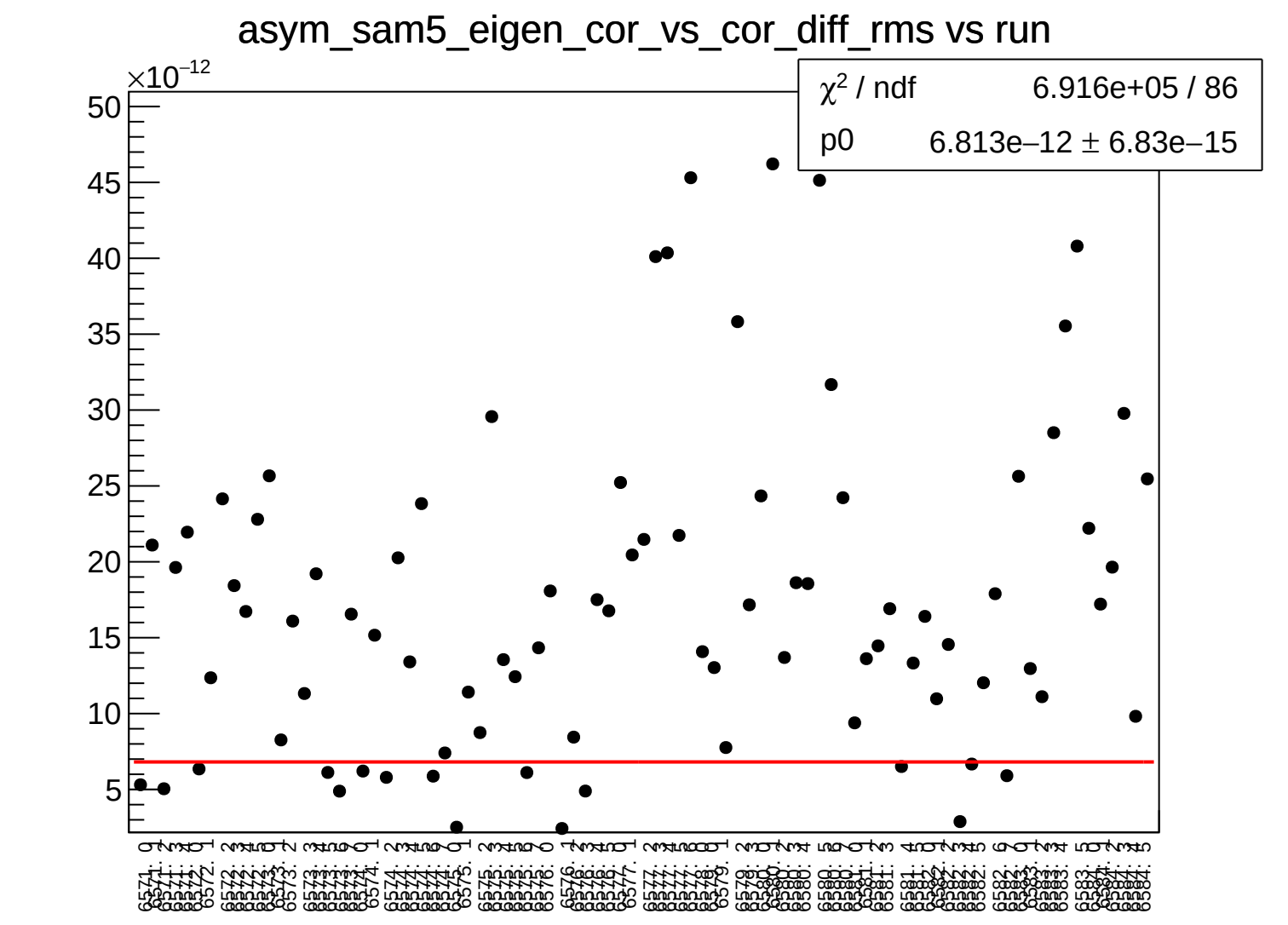

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.73 / 86
p0 −0.02167 ± 0.06952
pull
Entries 87
Mean −151.2
Std Dev 0

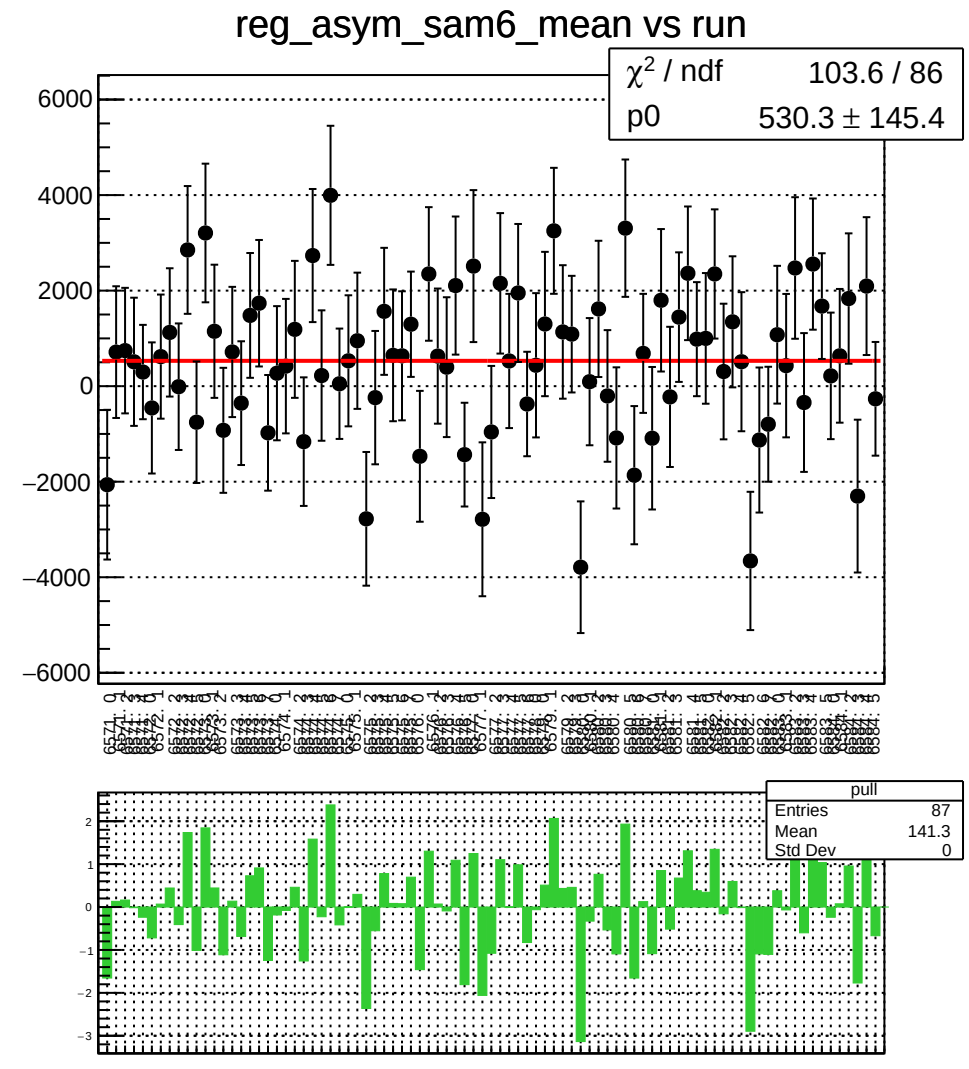

pull1D
Entries 87
Mean −0.02365
Std Dev 0.9981

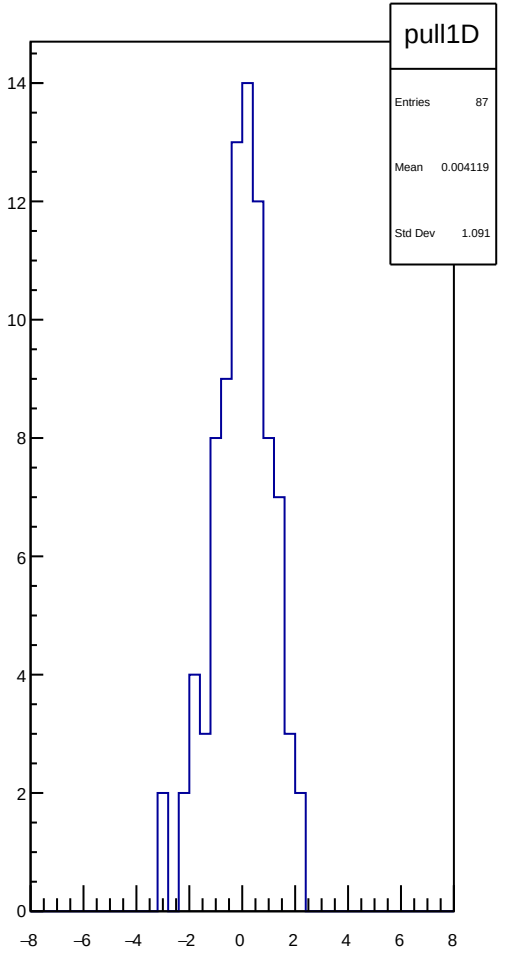

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.18e+04 / 86
p0 63.05 ± 0.04916
100
90
80
70
60
50
40

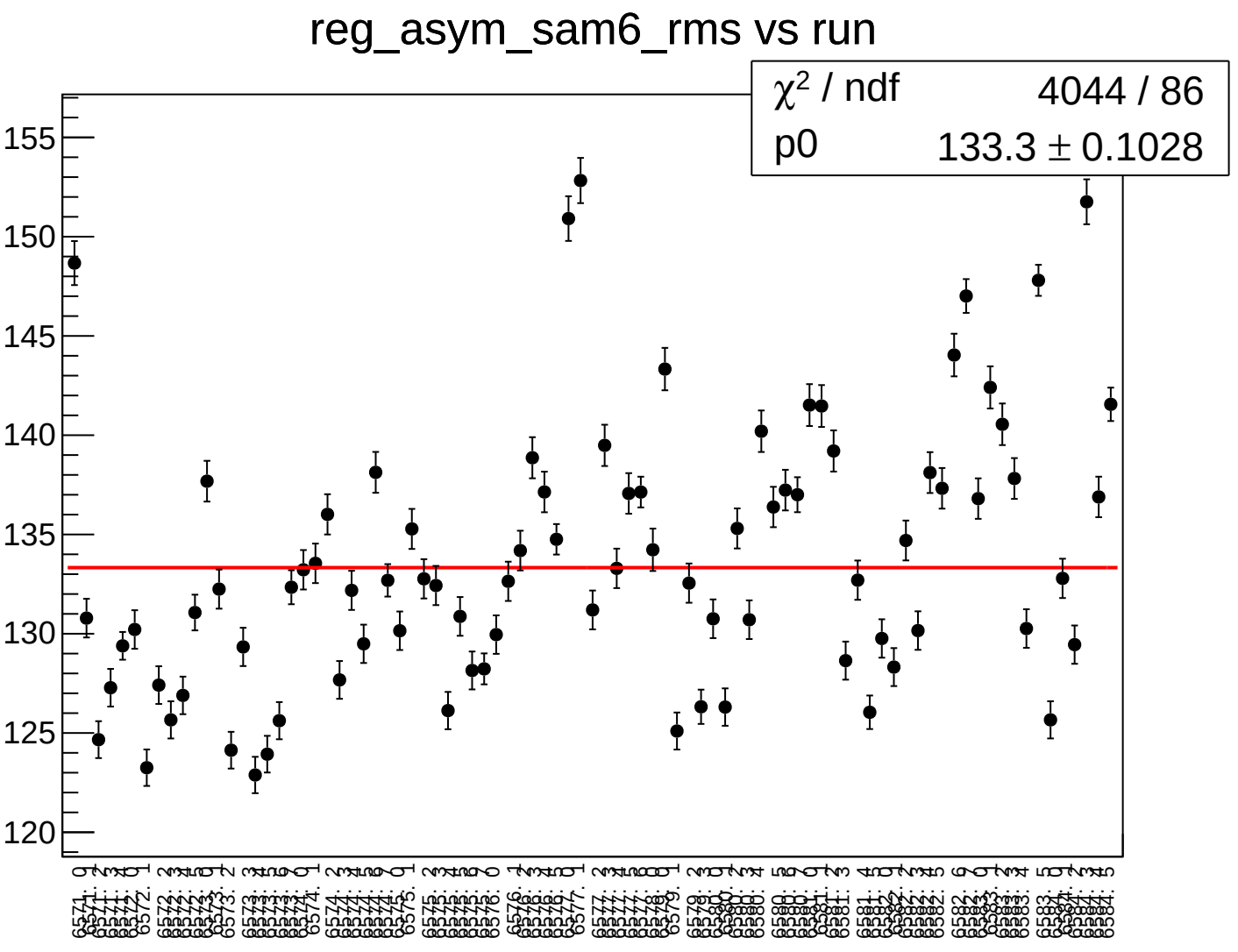

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 122.5 / 86
p0 8.579e−15 ± 9.658e−15
pull
Entries 87
Mean 18.43
Std Dev 22.11

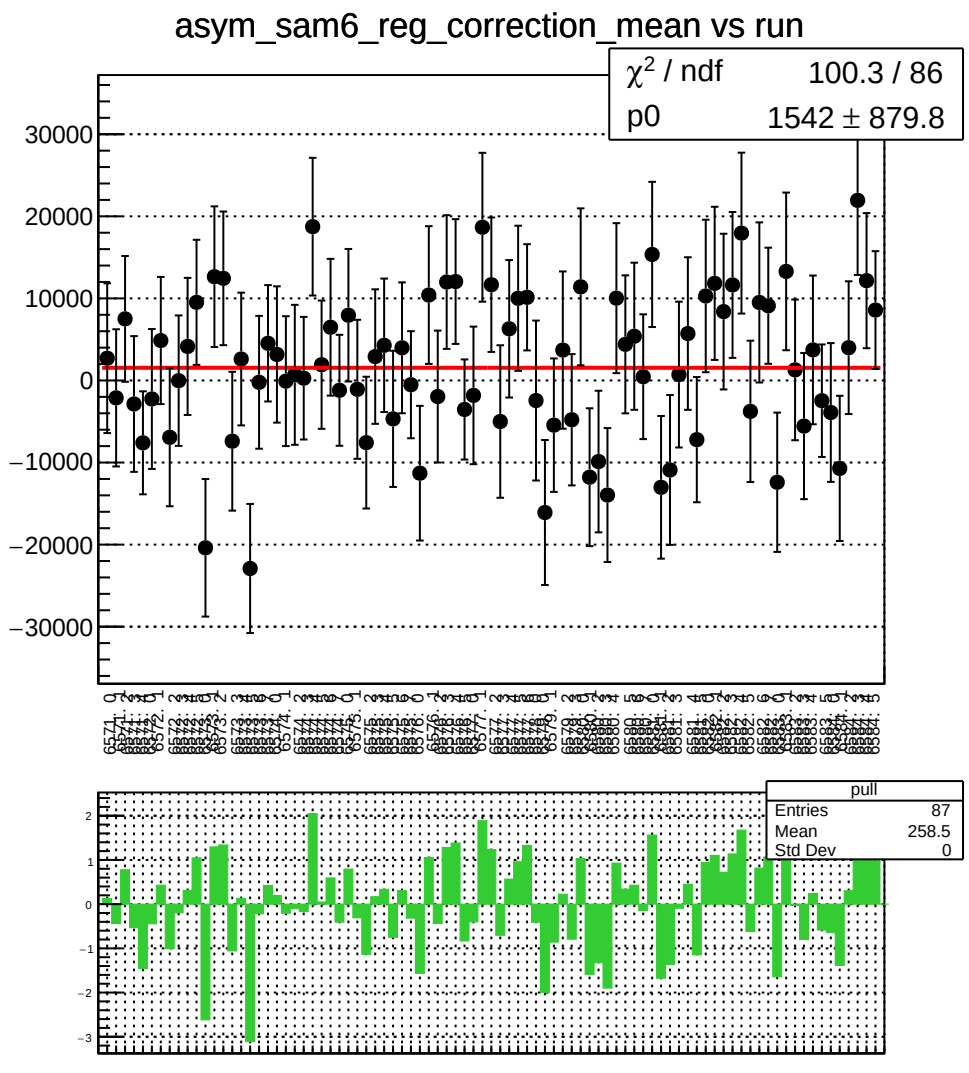

pull1D
Entries 87
Mean −0.09496
Std Dev 1.183

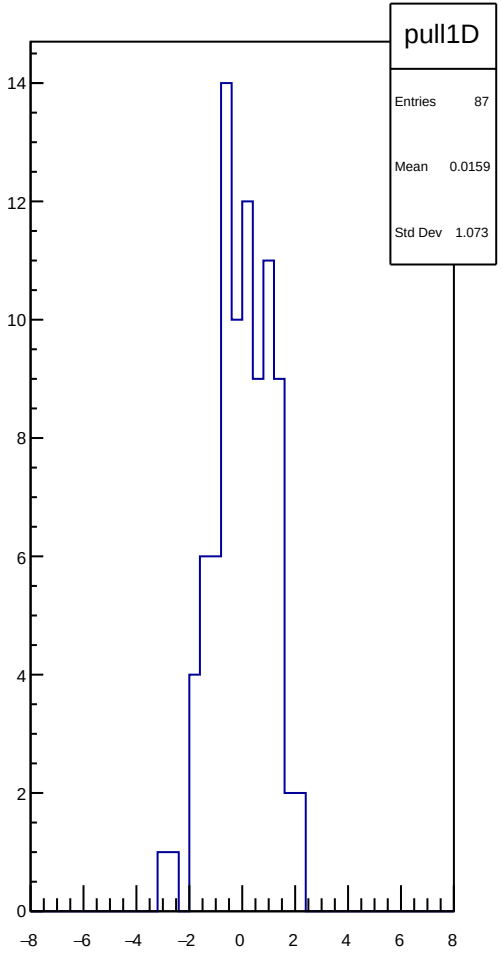

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.916e+05 / 86
p0 6.813e−12 ± 6.83e−15
50
45
40
35
30
25
20
15
10
5

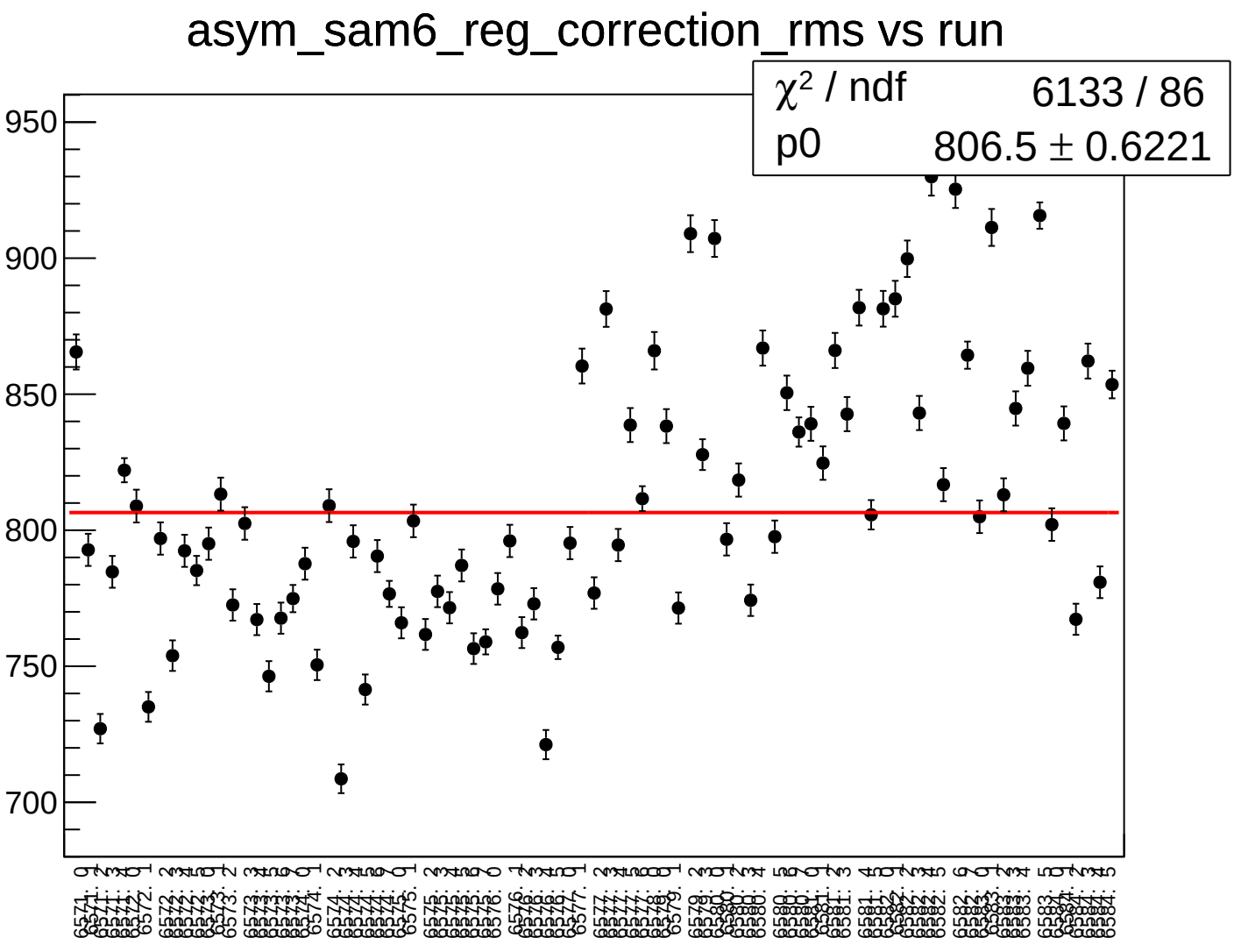

reg_asym_sam6_mean vs run
χ^2 / ndf 103.6 / 86
p0 530.3 ± 145.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 141.3
Std Dev 0
2
1
0
−1
−2
−3

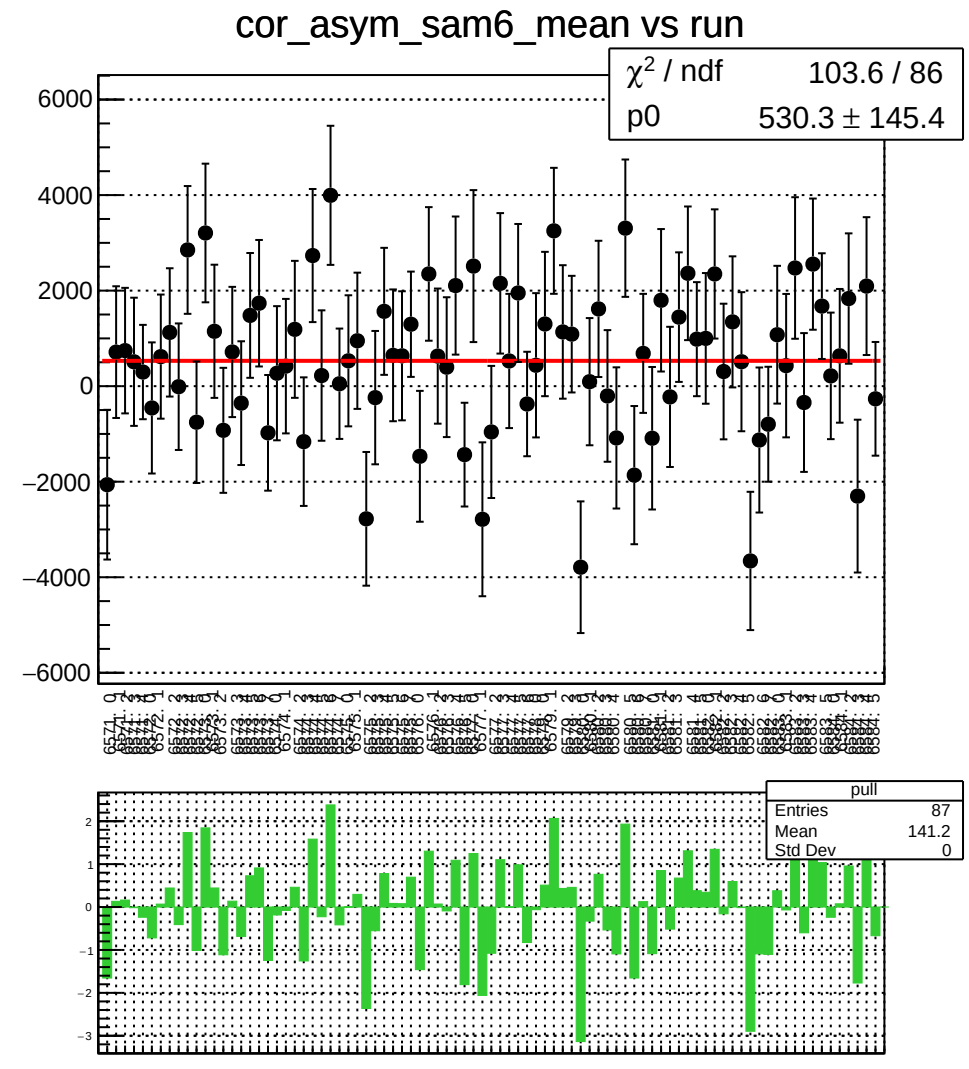

pull1D
Entries 87
Mean 0.004119
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

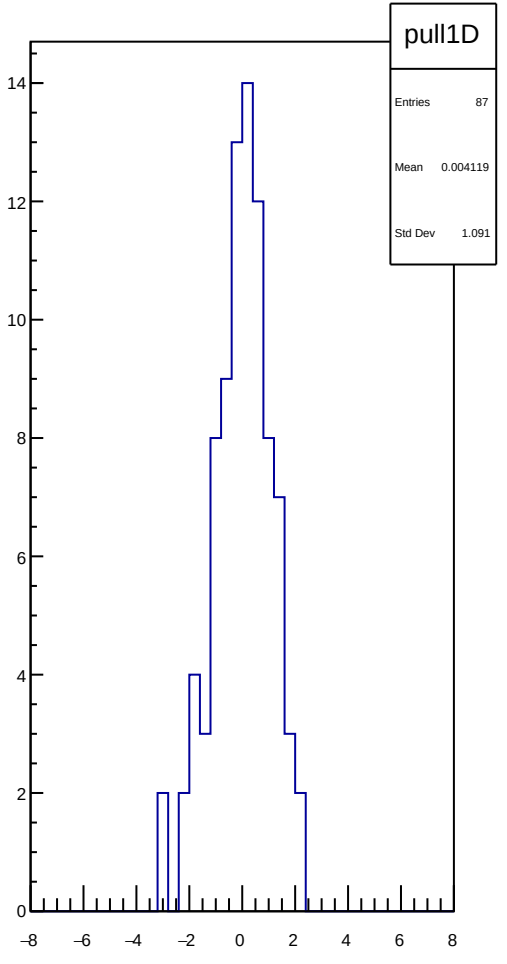

reg_asym_sam6_rms vs run
χ² / ndf 4044 / 86
p0 133.3 ± 0.1028
155
150
145
140
135
130
125
120

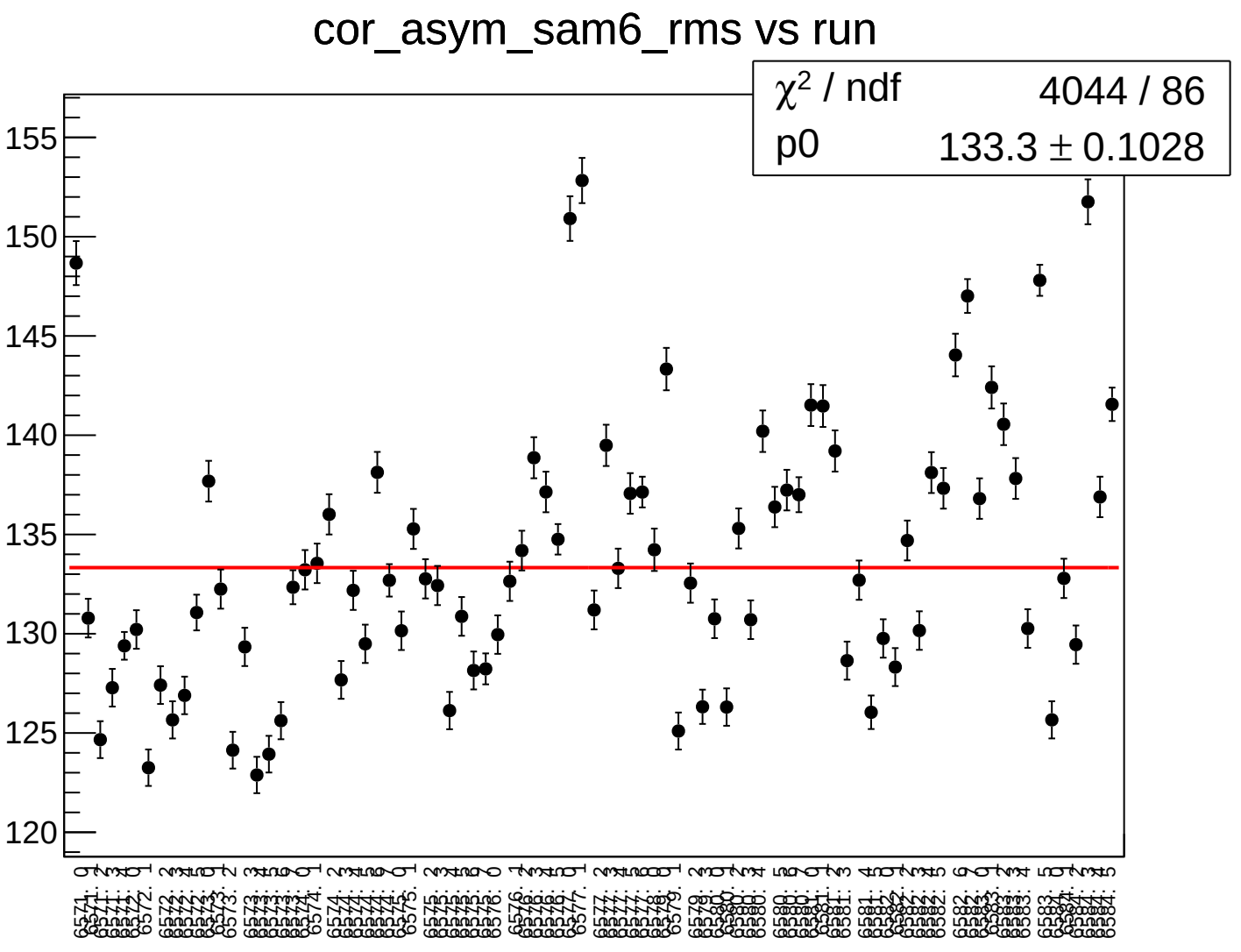

asym_sam6_reg_correction_mean vs run
χ² / ndf 100.3 / 86
p0 1542 ± 879.8
pull
Entries 87
Mean 258.5
Std Dev 0

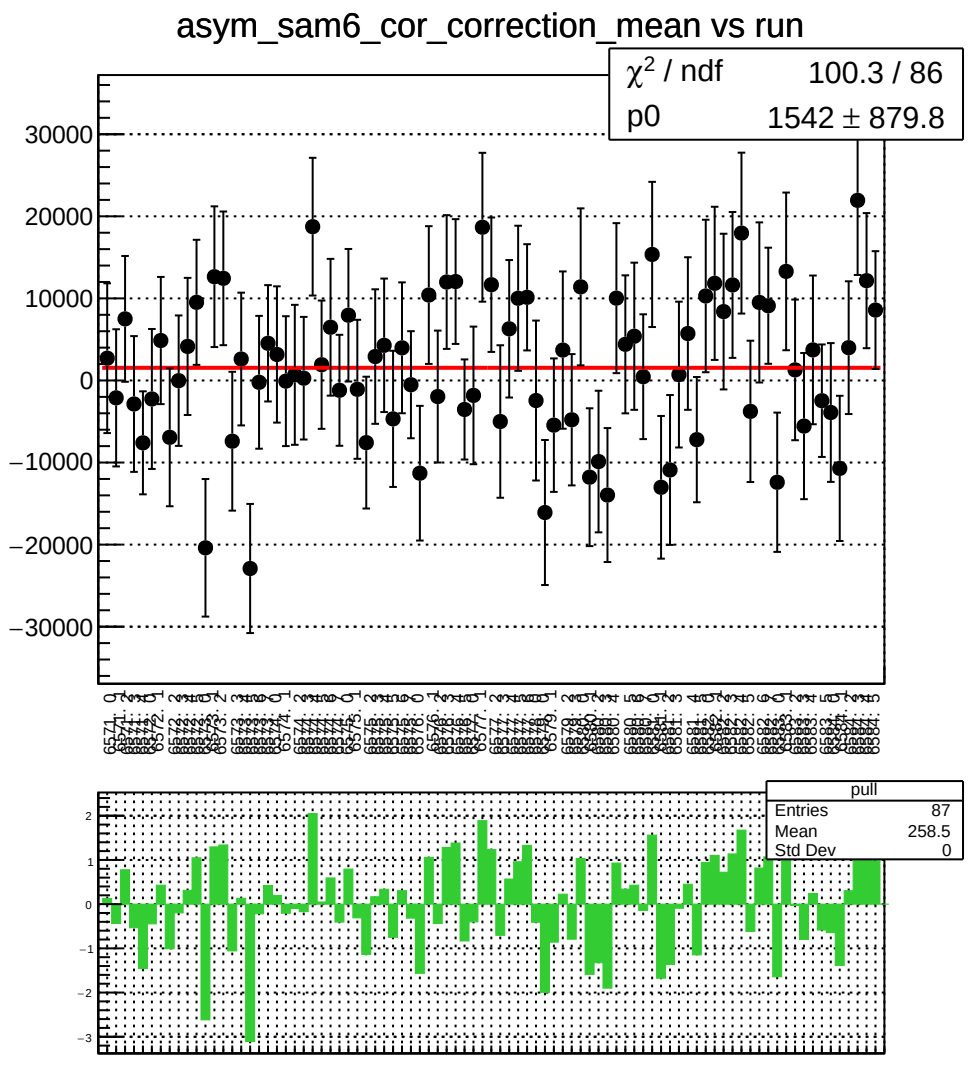

pull1D
Entries 87
Mean 0.0159
Std Dev 1.073

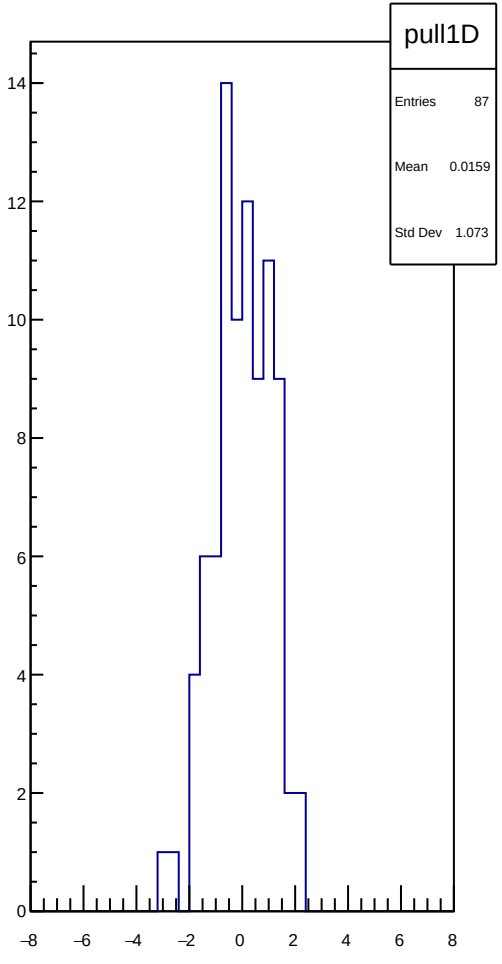

asym_sam6_reg_correction_rms vs run
χ² / ndf 6133 / 86
p0 806.5 ± 0.6221
950
900
850
800
750
700

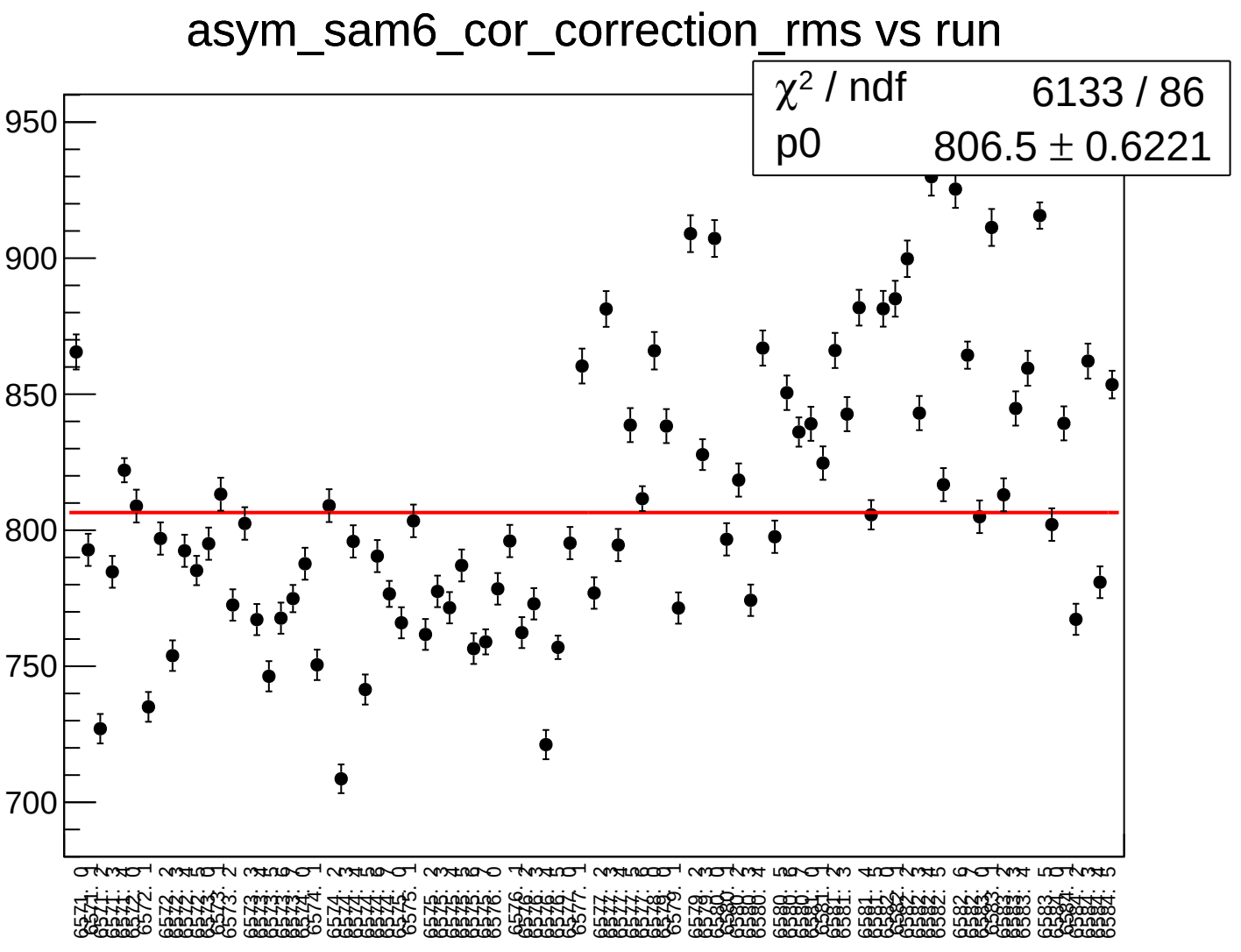

cor_asym_sam6_mean vs run
χ² / ndf 103.6 / 86
p0 530.3 ± 145.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 141.2
Std Dev 0
2
1
0
−1
−2
−3

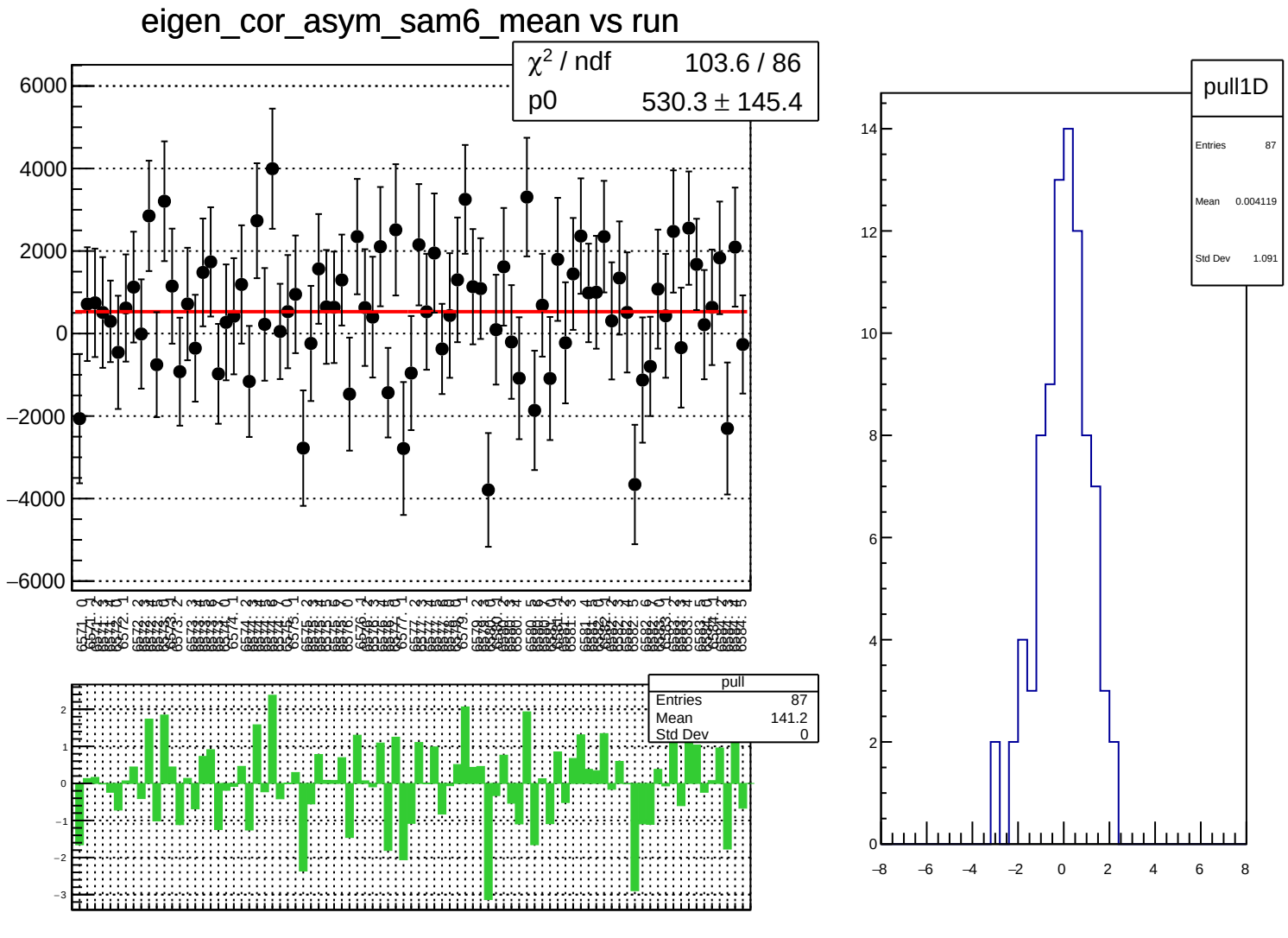

pull1D
Entries 87
Mean 0.004119
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

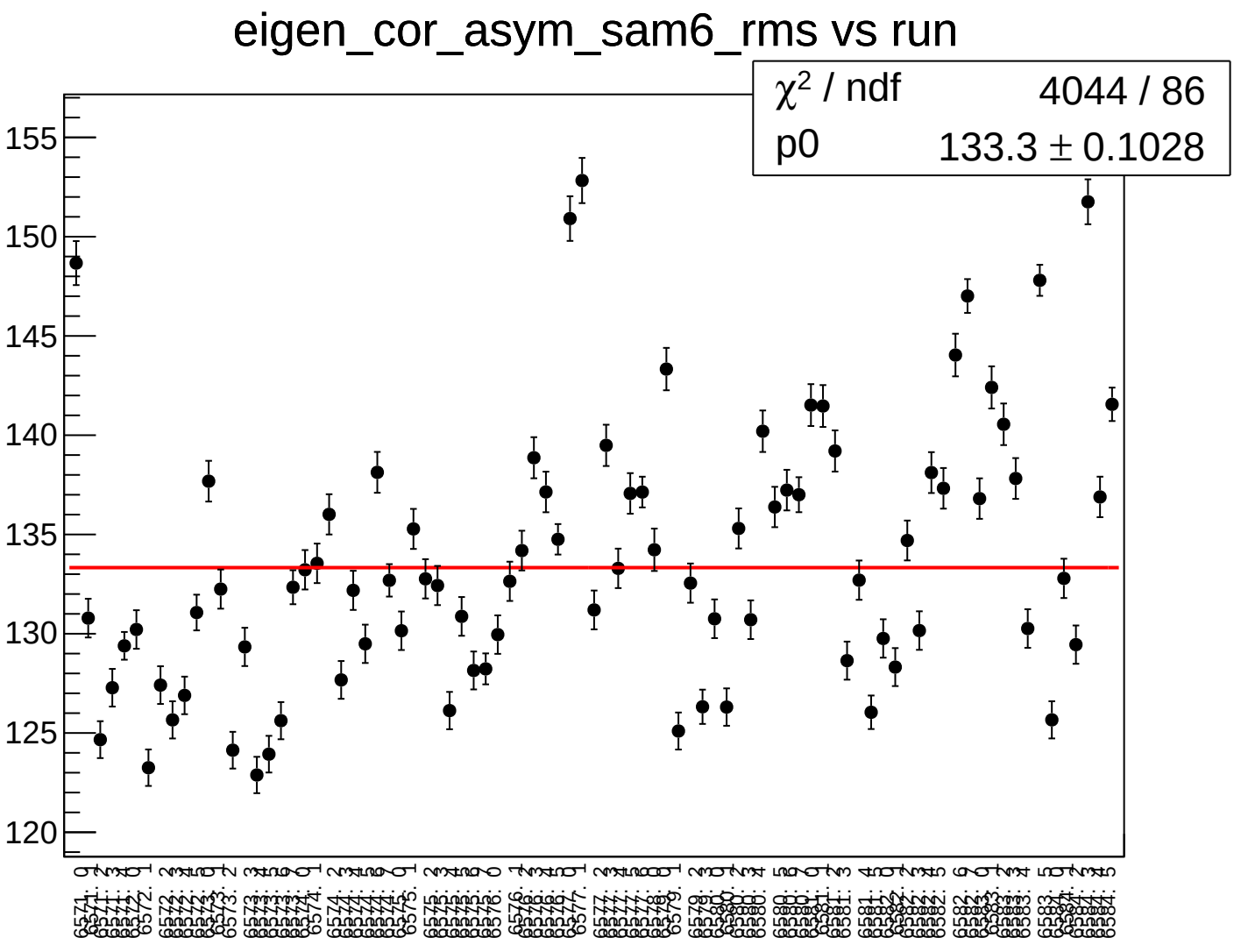

cor_asym_sam6_rms vs run
χ² / ndf 4044 / 86
p0 133.3 ± 0.1028
155
150
145
140
135
130
125
120

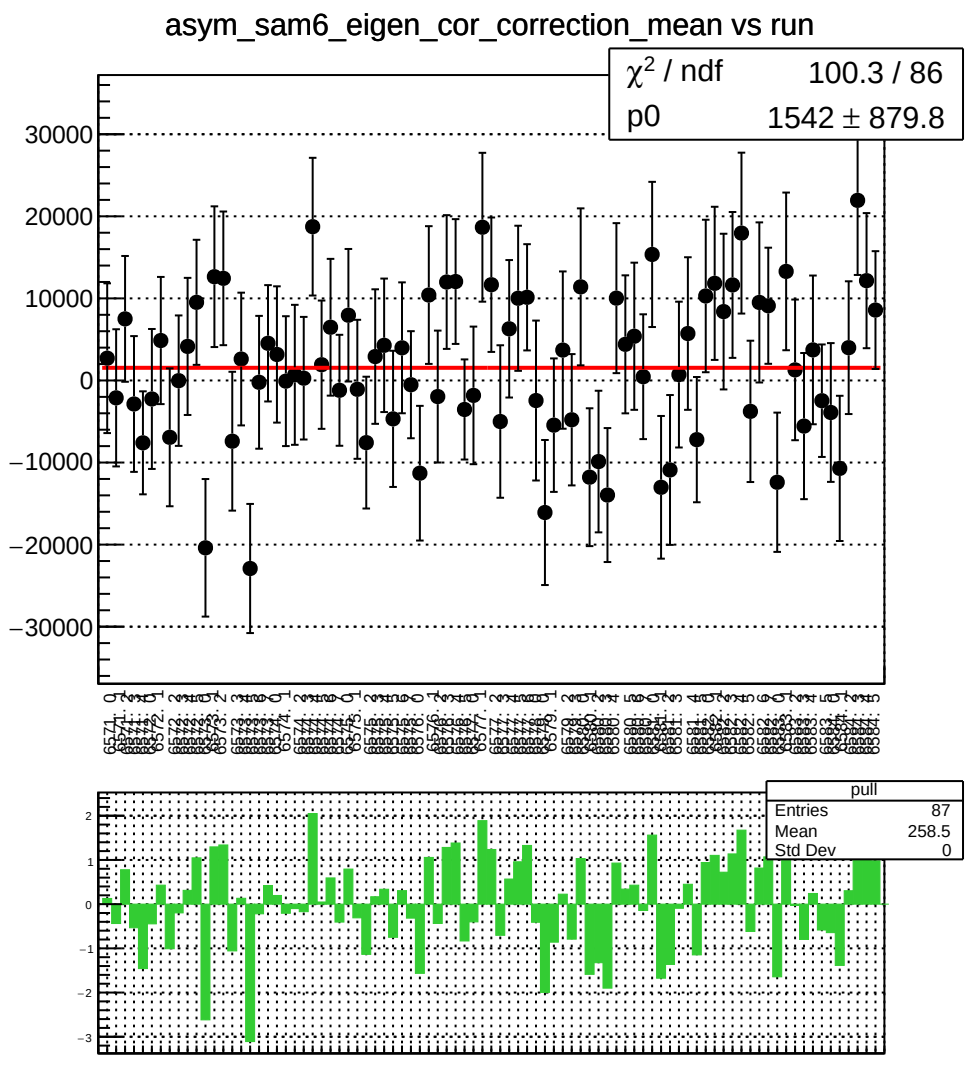

asym_sam6_cor_correction_mean vs run
χ² / ndf 100.3 / 86
p0 1542 ± 879.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 258.5
Std Dev 0
2
1
0
−1
−2
−3

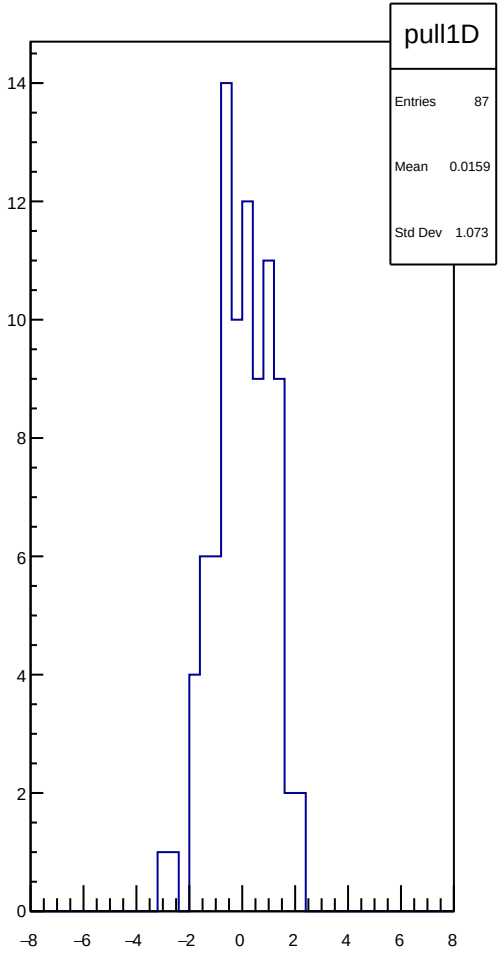

pull1D
Entries 87
Mean 0.0159
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

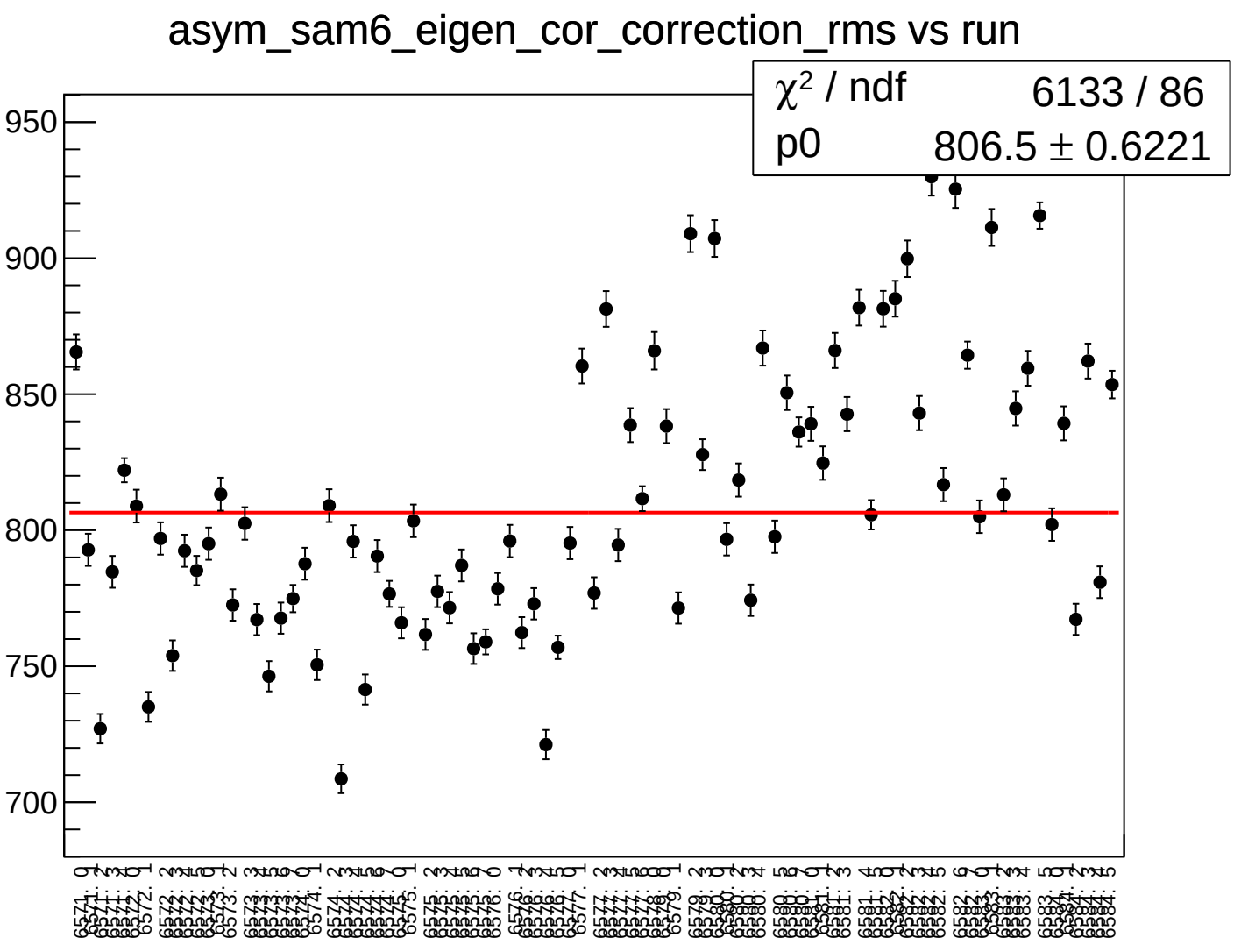

asym_sam6_cor_correction_rms vs run
χ² / ndf 6133 / 86
p0 806.5 ± 0.6221
950
900
850
800
750
700

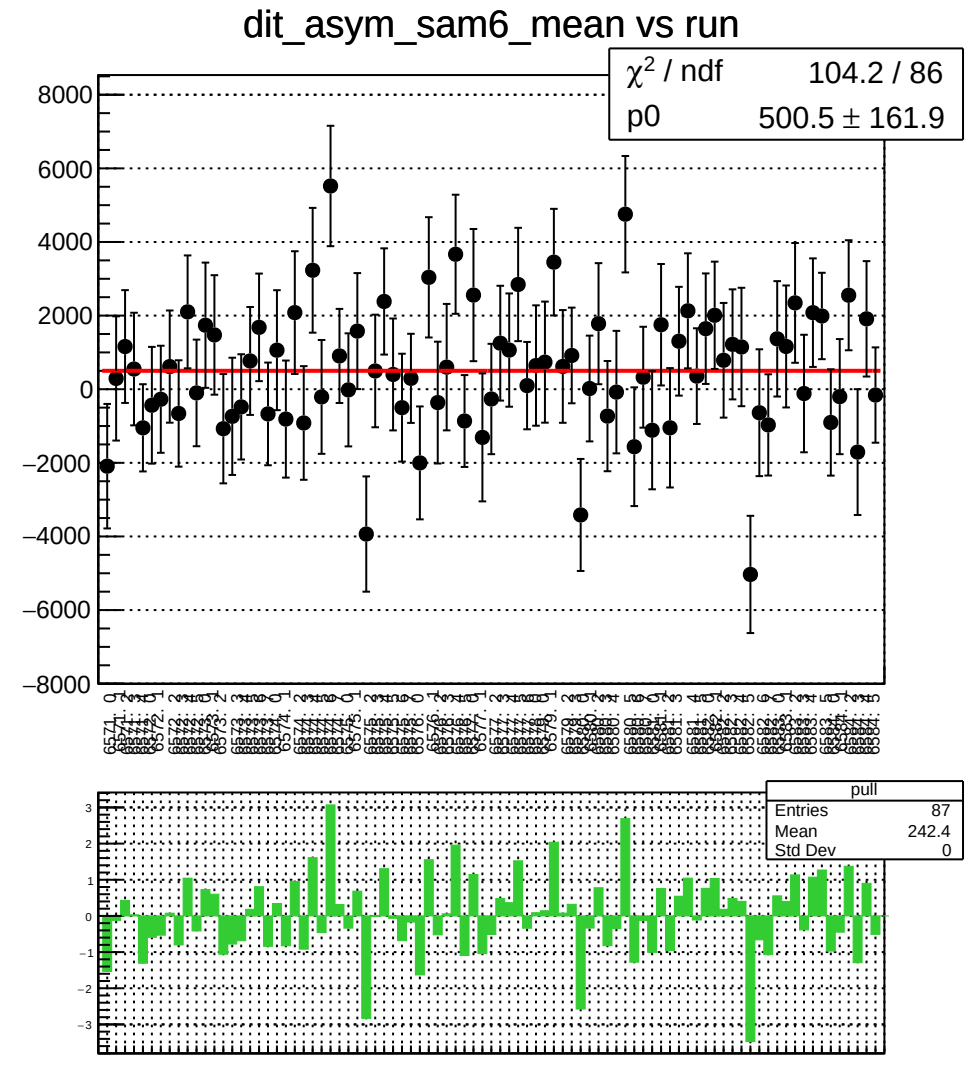

eigen_cor_asym_sam6_mean vs run
χ² / ndf 103.6 / 86
p0 530.3 ± 145.4
pull
Entries 87
Mean 141.2
Std Dev 0
pull1D
Entries 87
Mean 0.004119
Std Dev 1.091

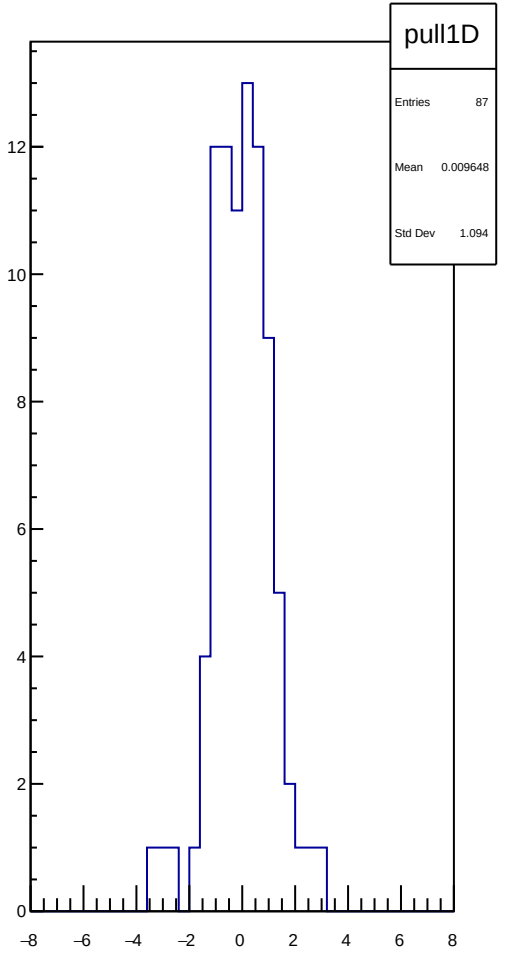

eigen_cor_asym_sam6_rms vs run
χ^2 / ndf 4044 / 86
p0 133.3 ± 0.1028
155
150
145
140
135
130
125
120


asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 100.3 / 86
p0 1542 ± 879.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 258.5
Std Dev 0
2
1
0
−1
−2
−3

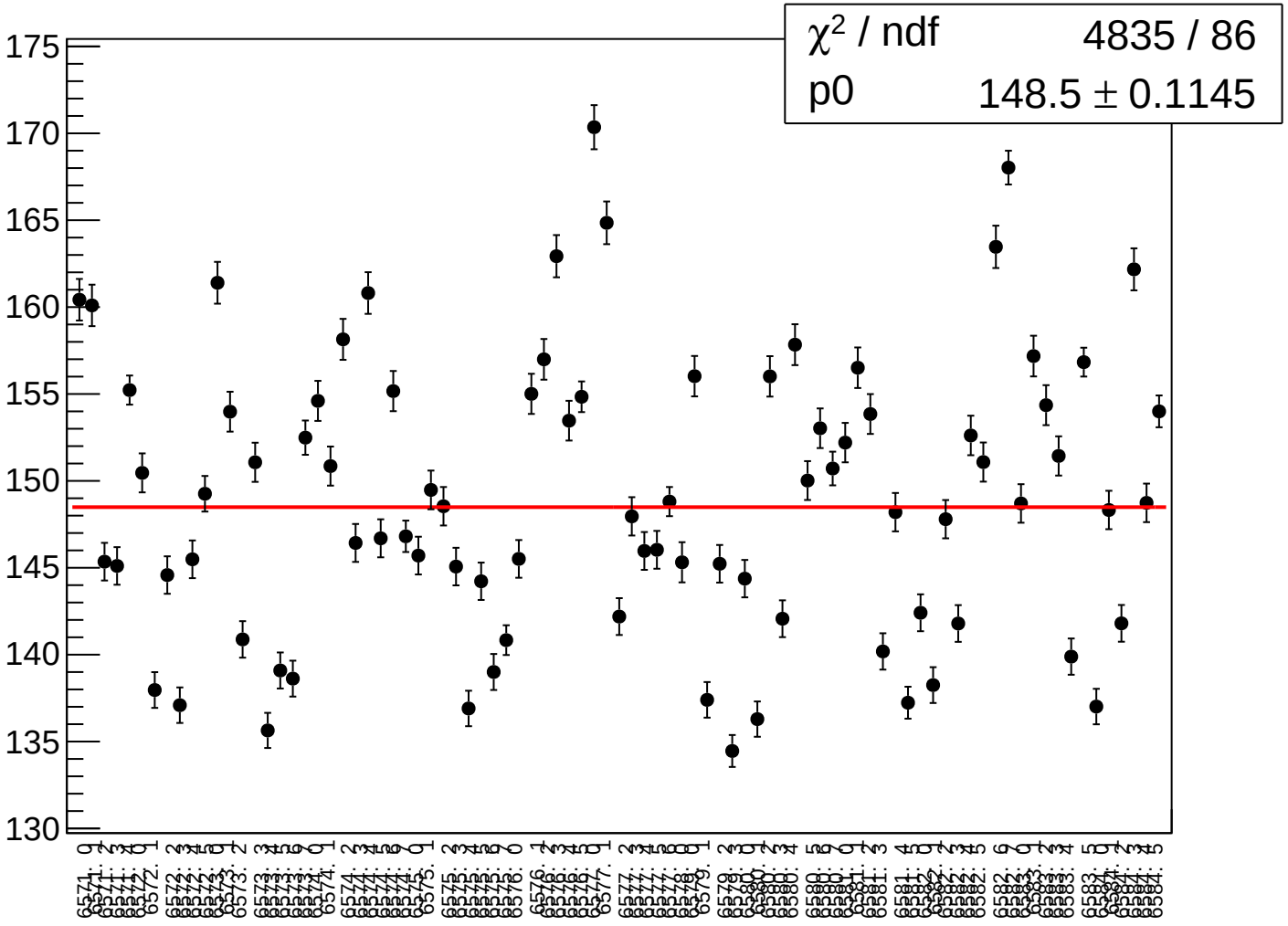

pull1D
Entries 87
Mean 0.0159
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

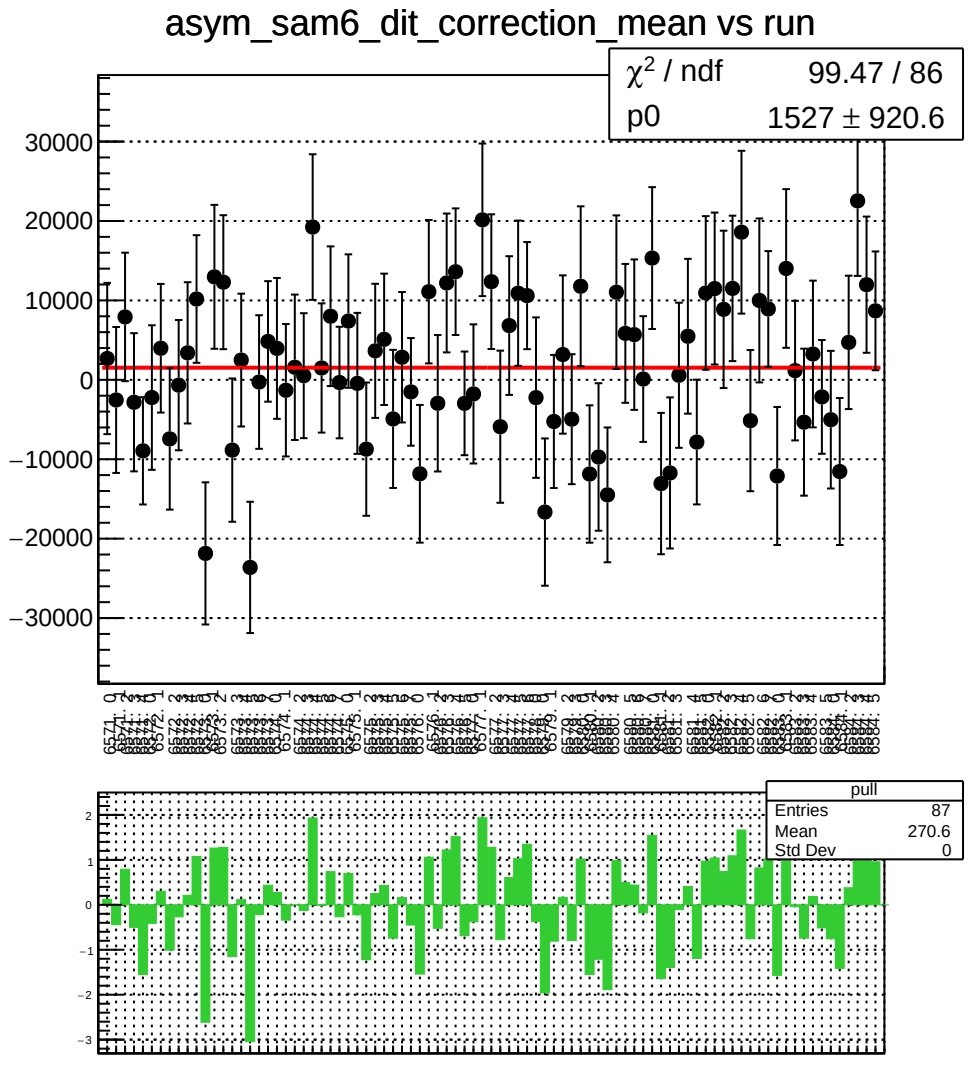

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 6133 / 86
p0 806.5 ± 0.6221
950
900
850
800
750
700

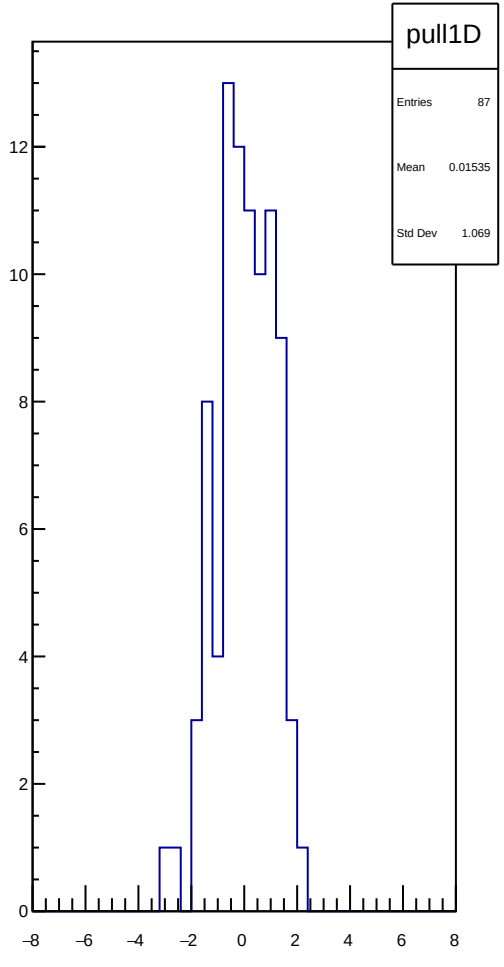

dit_asym_sam6_mean vs run
χ² / ndf 104.2 / 86
p0 500.5 ± 161.9
pull
Entries 87
Mean 242.4
Std Dev 0

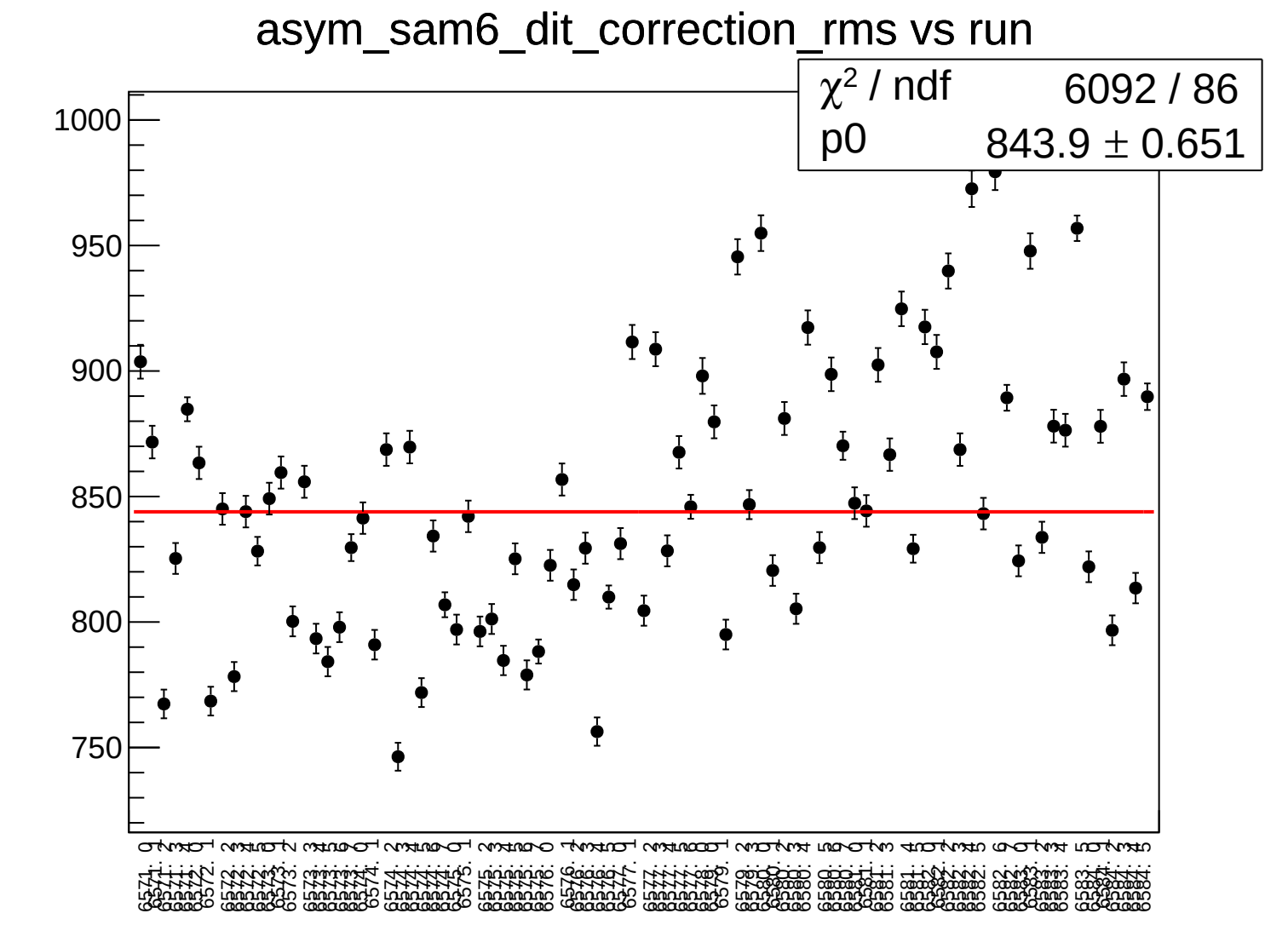

pull1D
Entries 87
Mean 0.009648
Std Dev 1.094

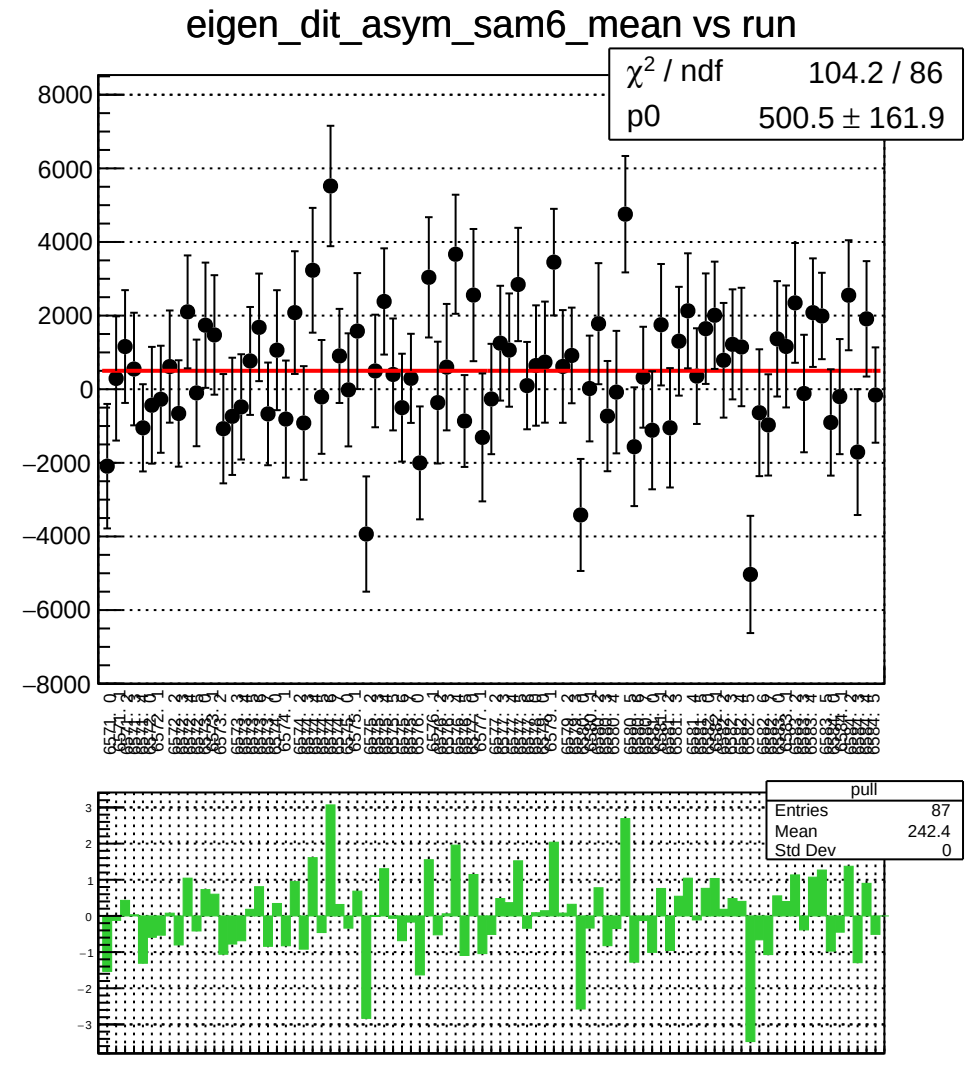
dit_asym_sam6_rms vs run

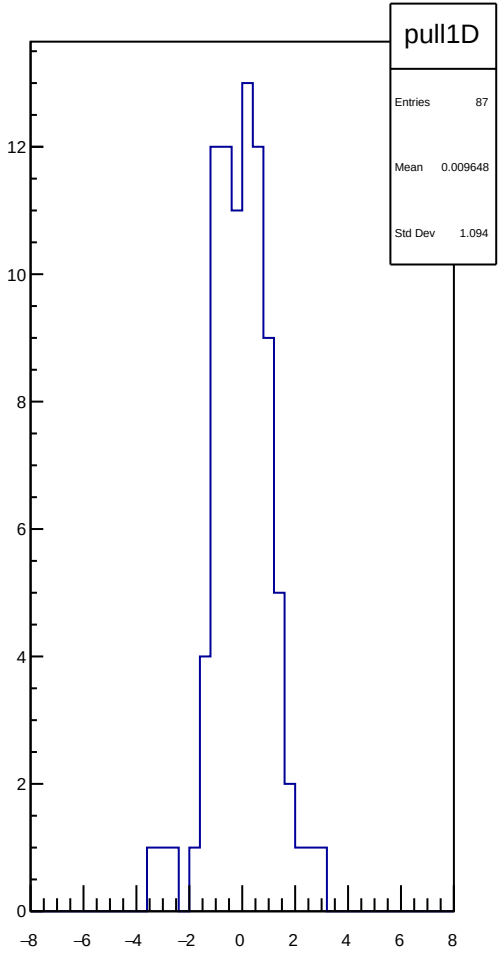


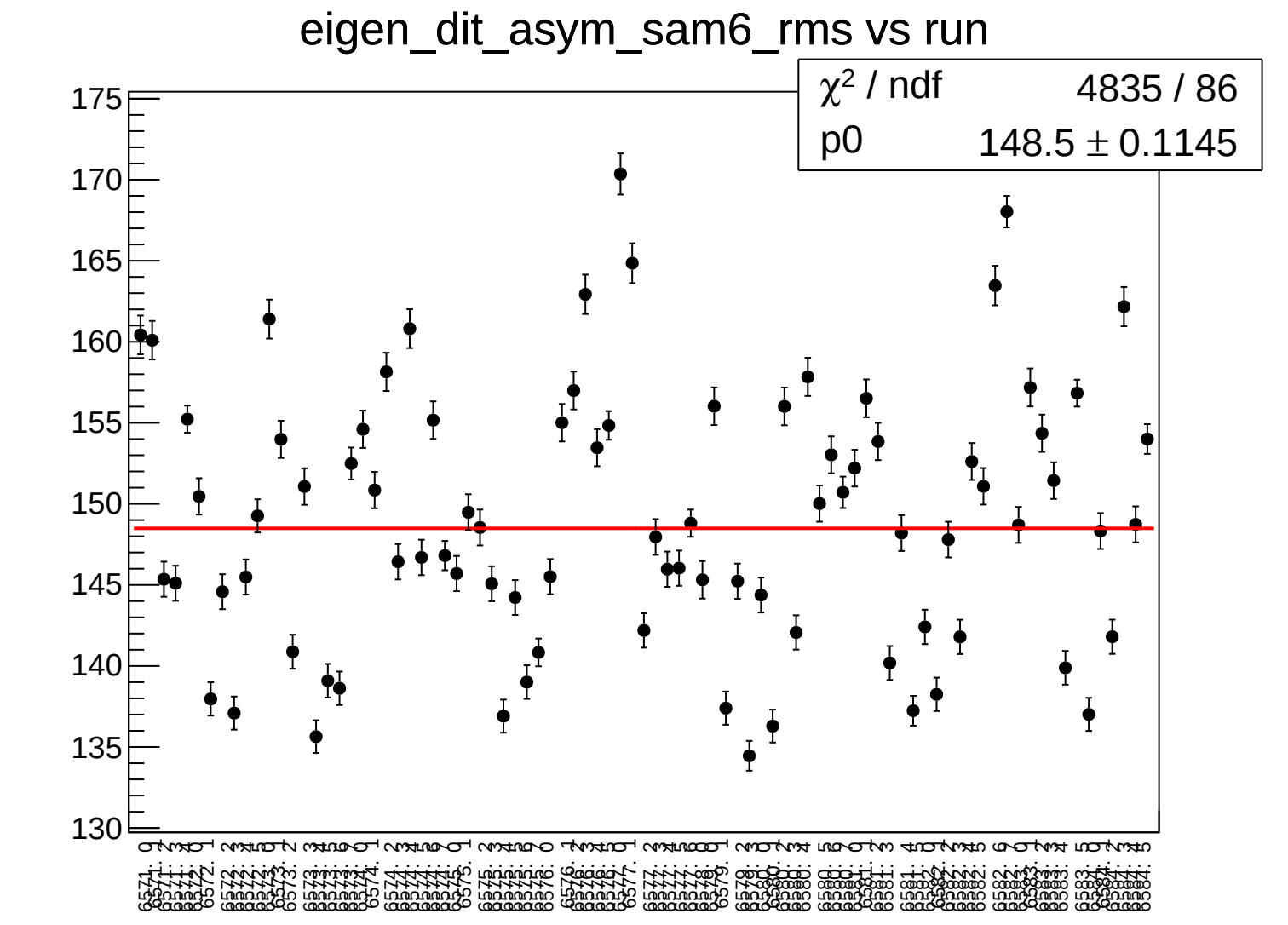

asym_sam6_dit_correction_mean vs run
χ² / ndf 99.47 / 86
p0 1527 ± 920.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 270.6
Std Dev 0
2
1
0
−1
−2
−3

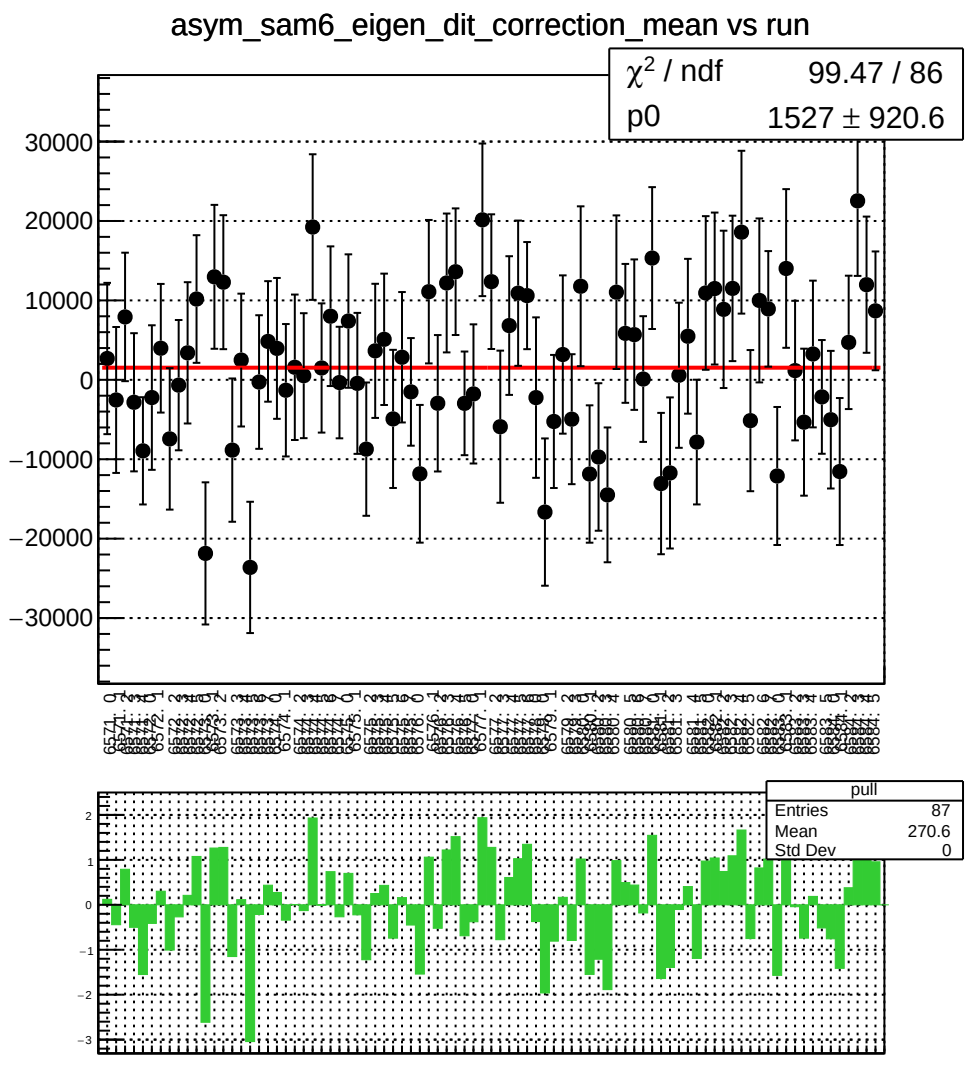

pull1D
Entries 87
Mean 0.01535
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

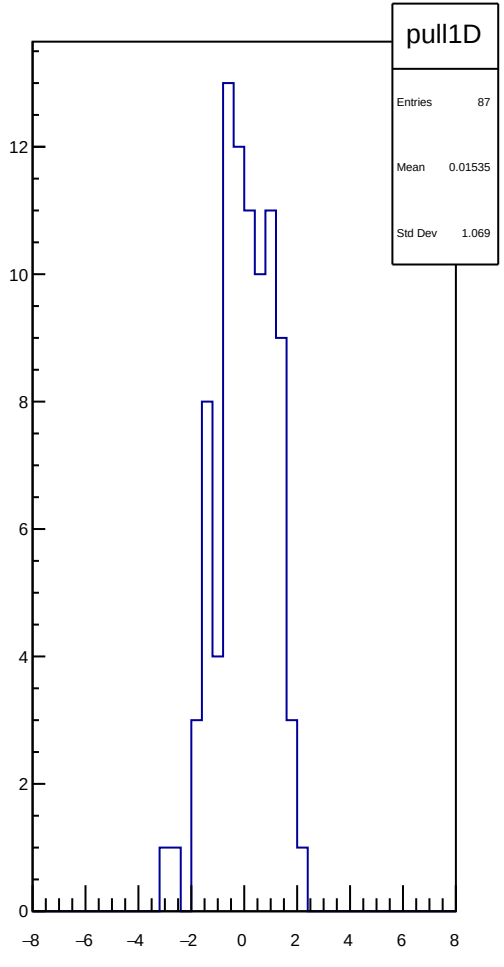

asym_sam6_dit_correction_rms vs run
χ² / ndf 6092 / 86
p0 843.9 ± 0.651
1000
950
900
850
800
750

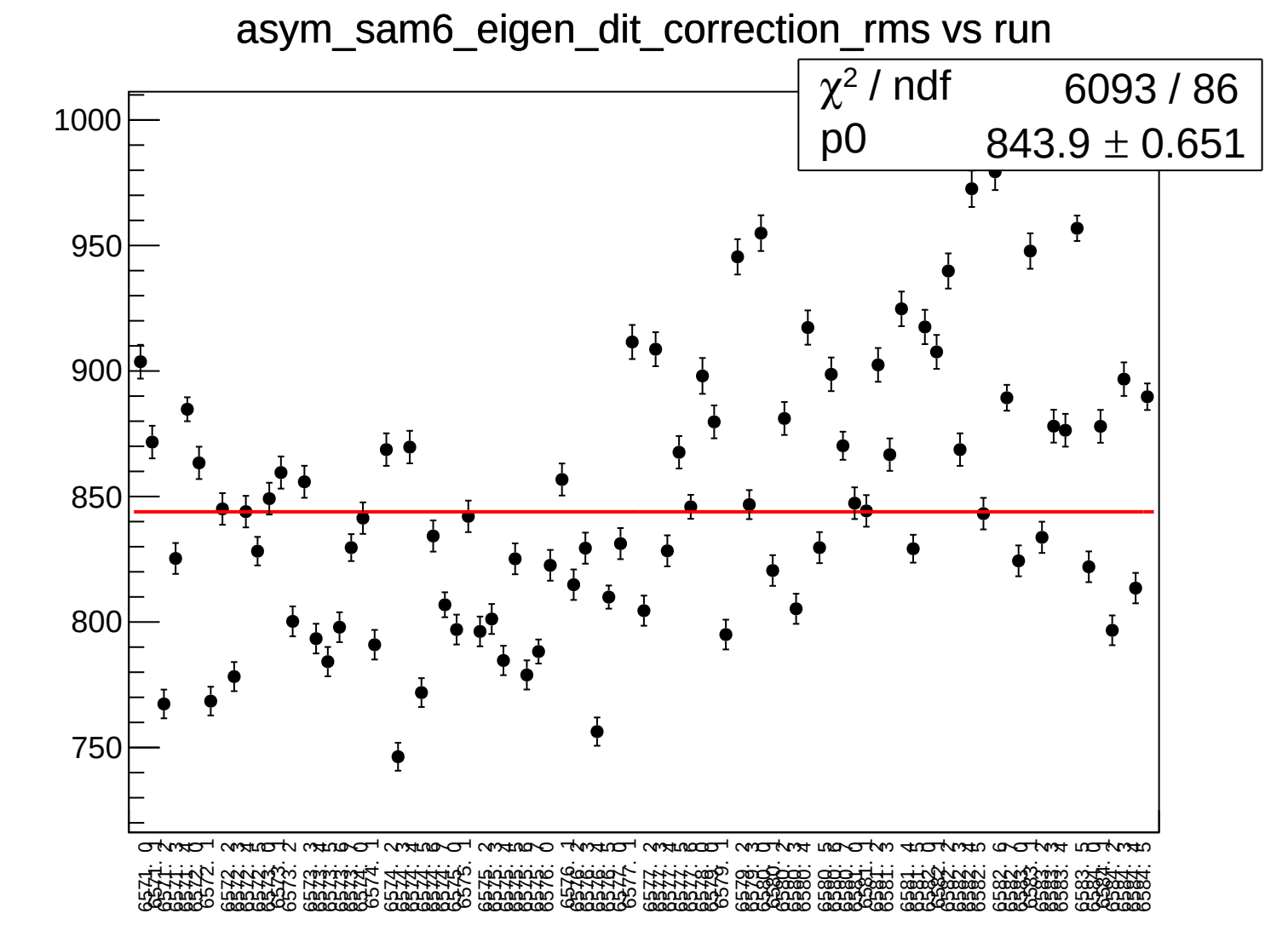

eigen_dit_asym_sam6_mean vs run
χ² / ndf 104.2 / 86
p0 500.5 ± 161.9
pull
Entries 87
Mean 242.4
Std Dev 0

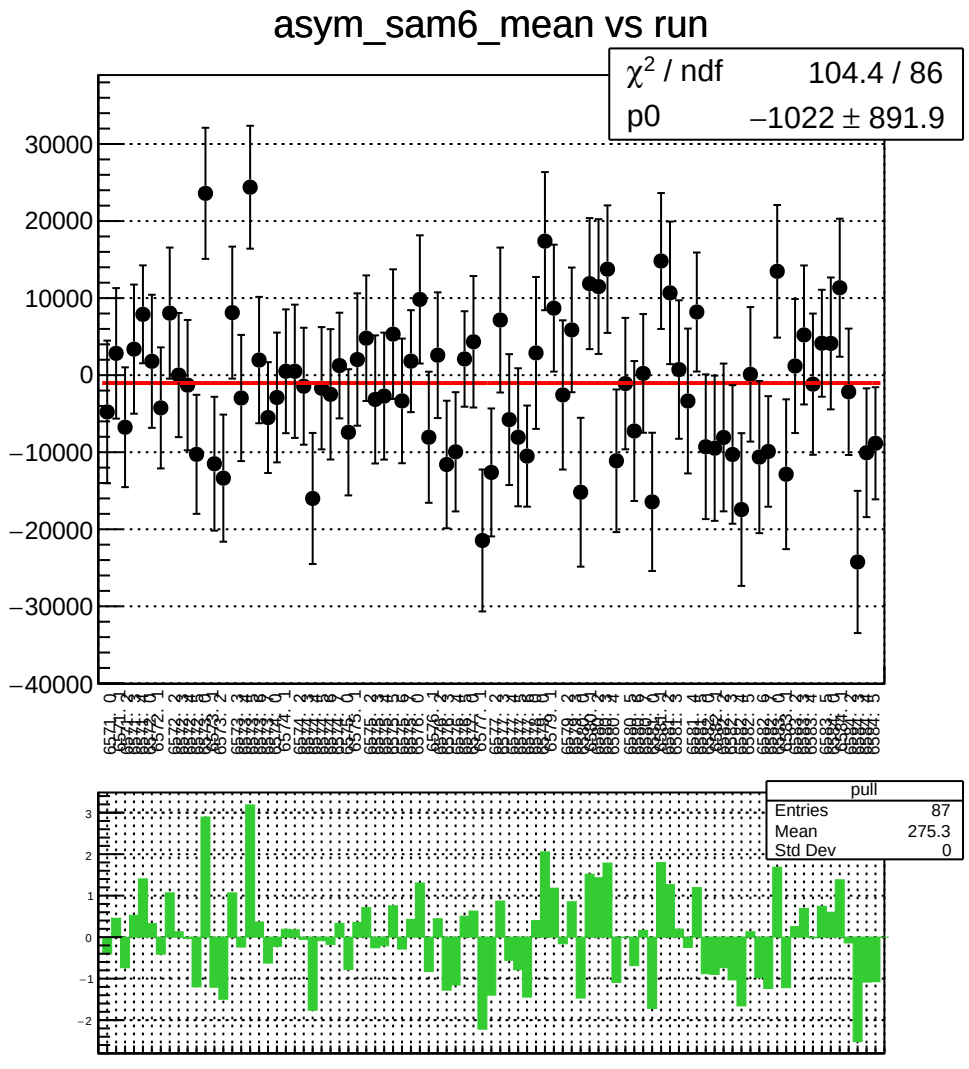

pull1D
Entries 87
Mean 0.009648
Std Dev 1.094

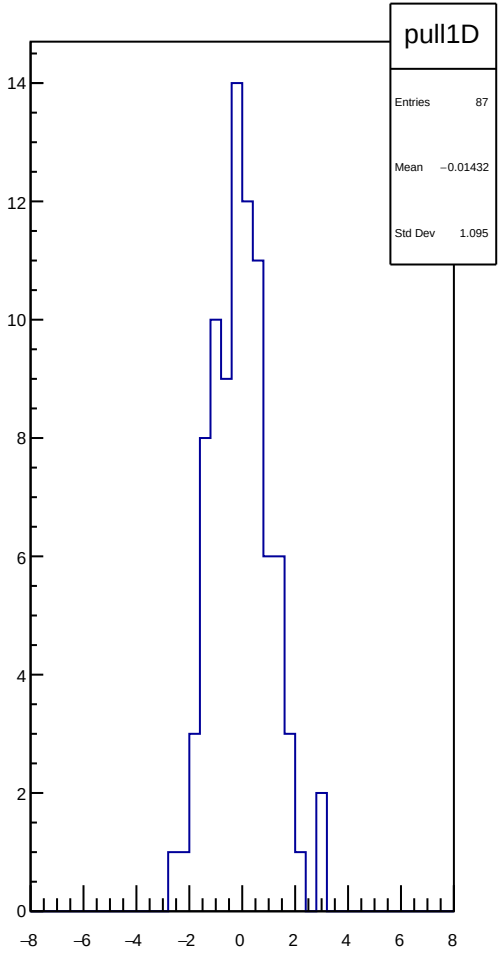

eigen_dit_asym_sam6_rms vs run
χ² / ndf 4835 / 86
p0 148.5 ± 0.1145
175
170
165
160
155
150
145
140
135
130

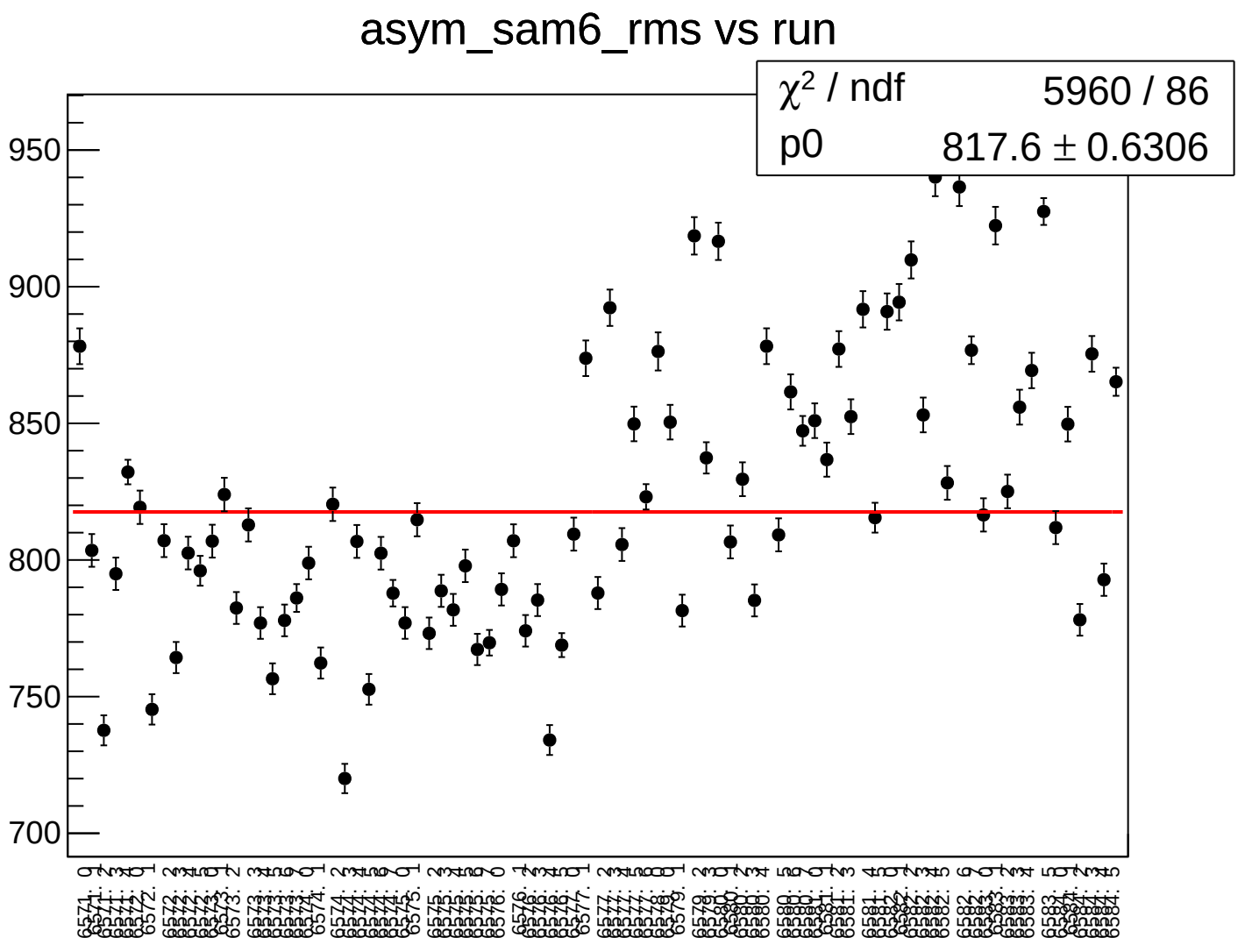

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 99.47 / 86
p0 1527 ± 920.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 270.6
Std Dev 0
2
1
0
−1
−2
−3

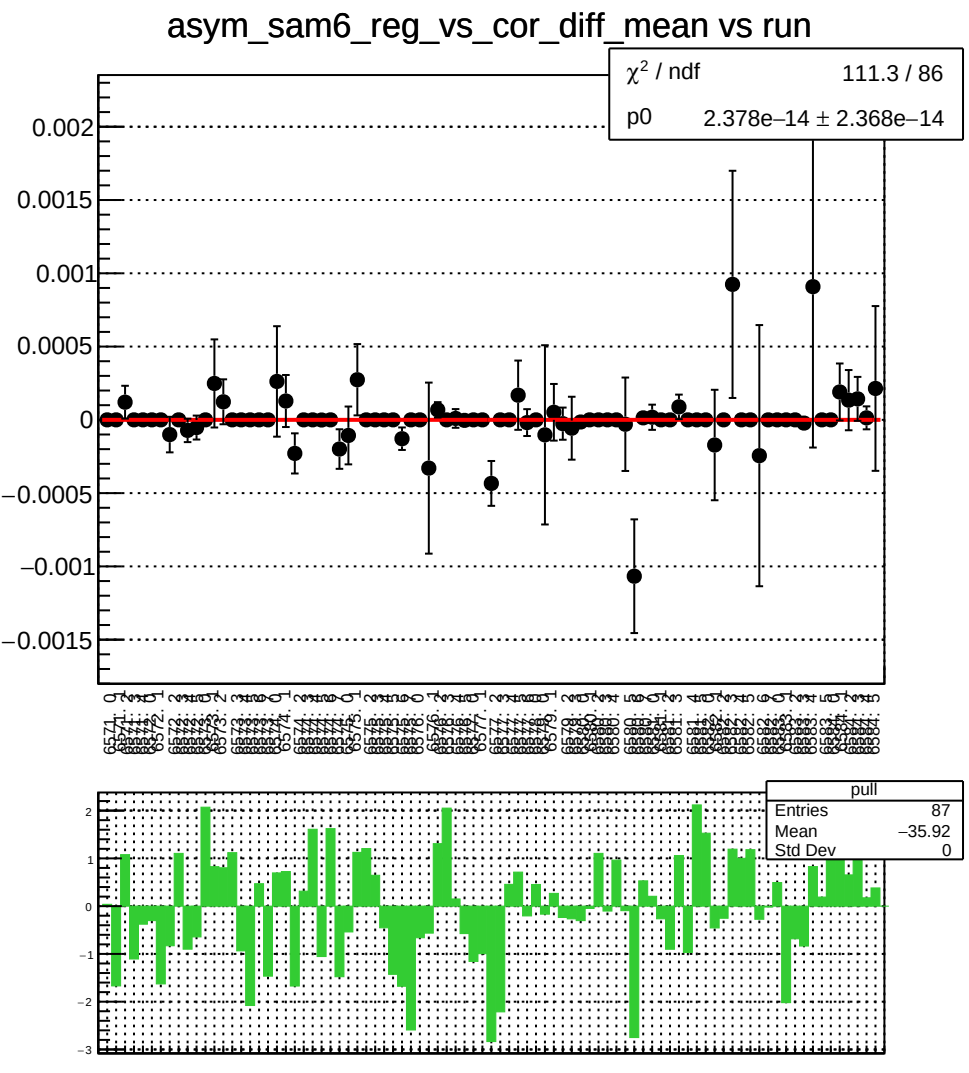

pull1D
Entries 87
Mean 0.01535
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

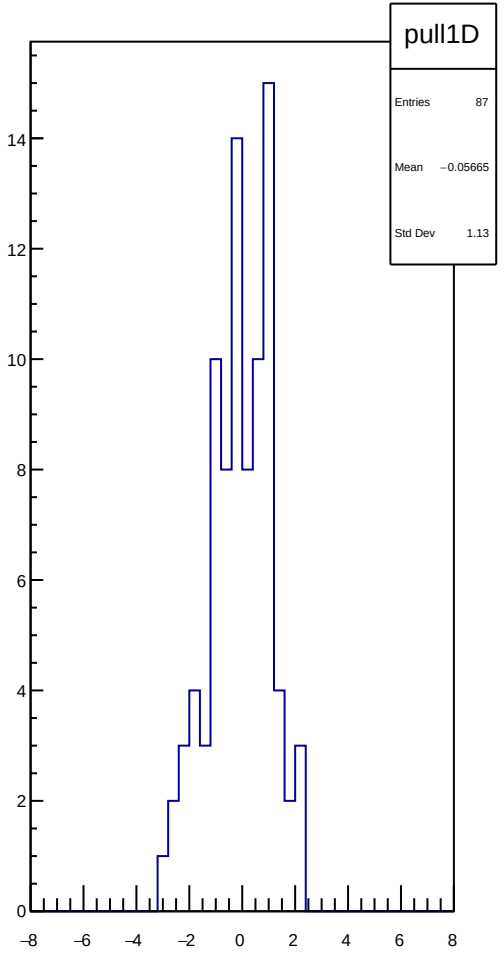

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 6093 / 86
p0 843.9 ± 0.651
1000
950
900
850
800
750

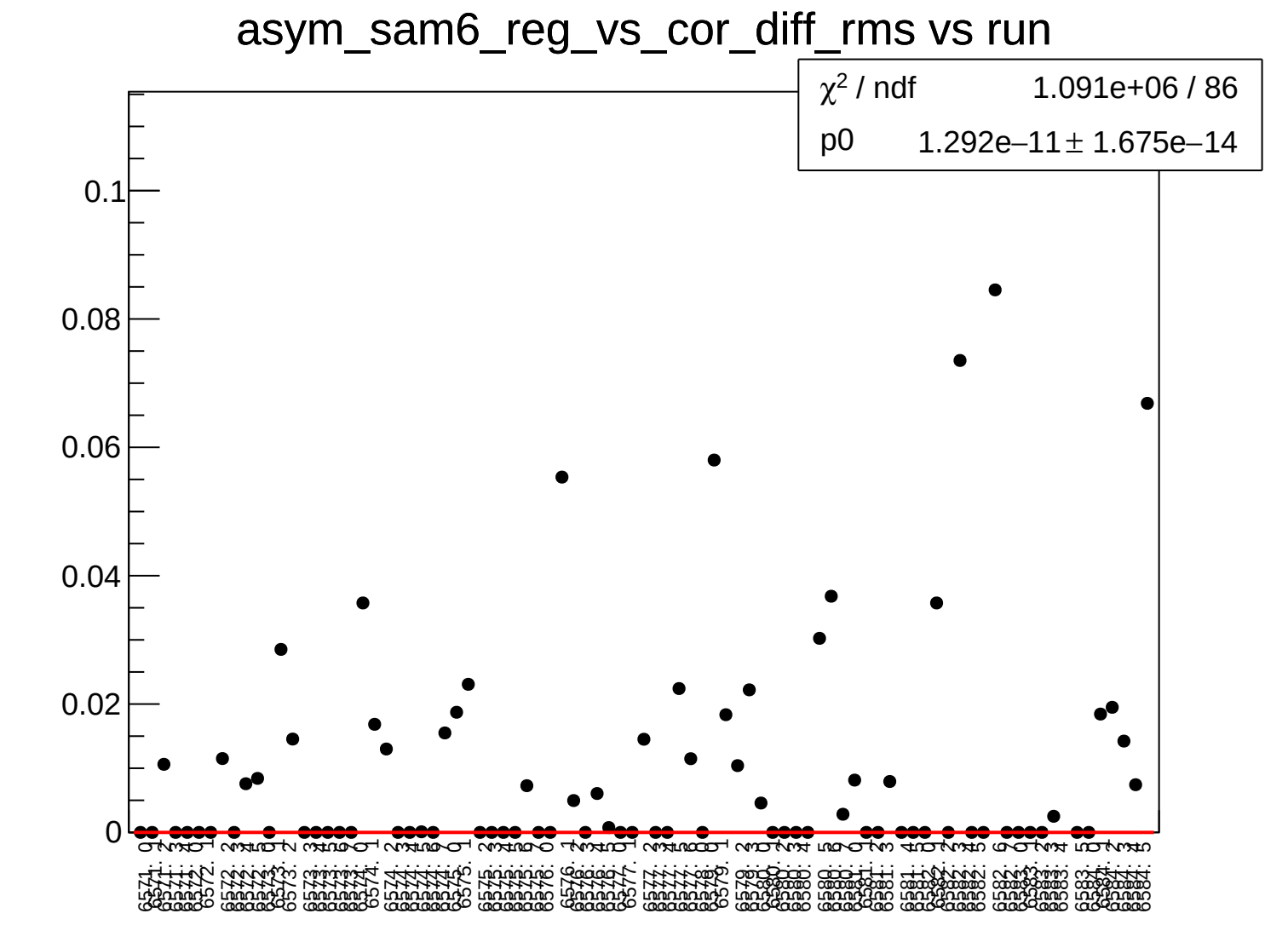

asym_sam6_mean vs run
χ² / ndf 104.4 / 86
p0 −1022 ± 891.9
pull
Entries 87
Mean 275.3
Std Dev 0

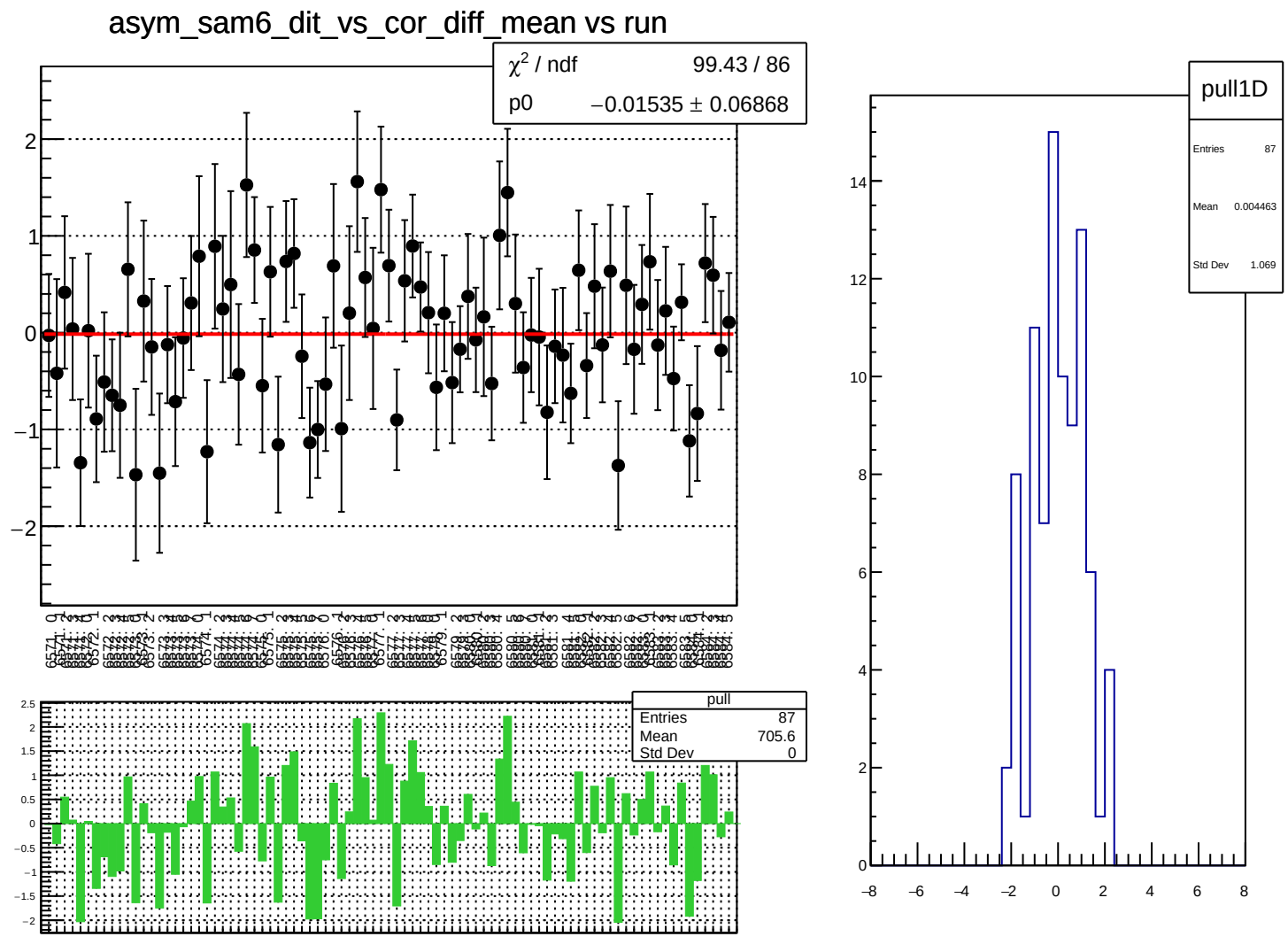

pull1D
Entries 87
Mean −0.01432
Std Dev 1.095

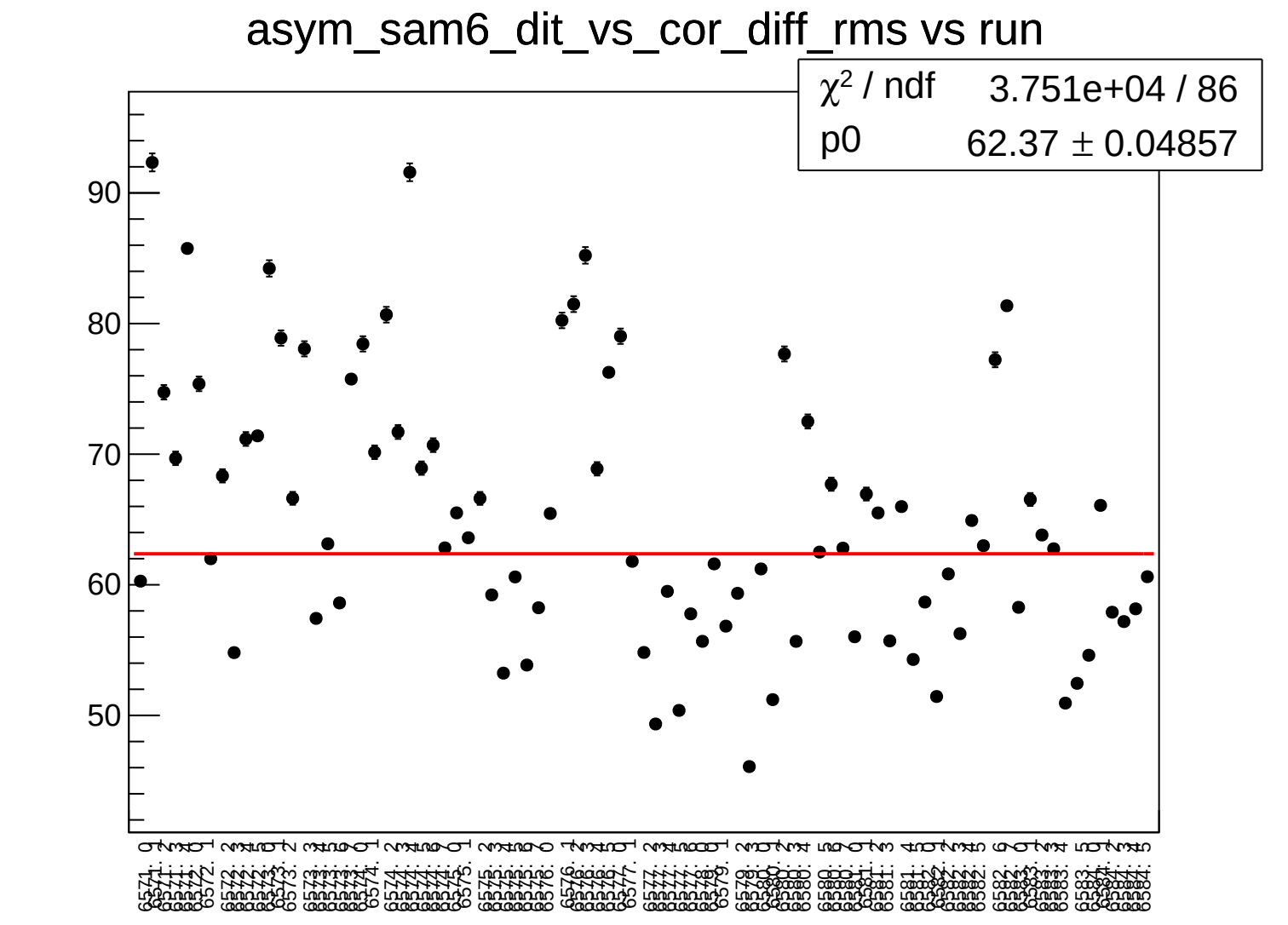

asym_sam6_rms vs run
χ² / ndf 5960 / 86
p0 817.6 ± 0.6306
950
900
850
800
750
700

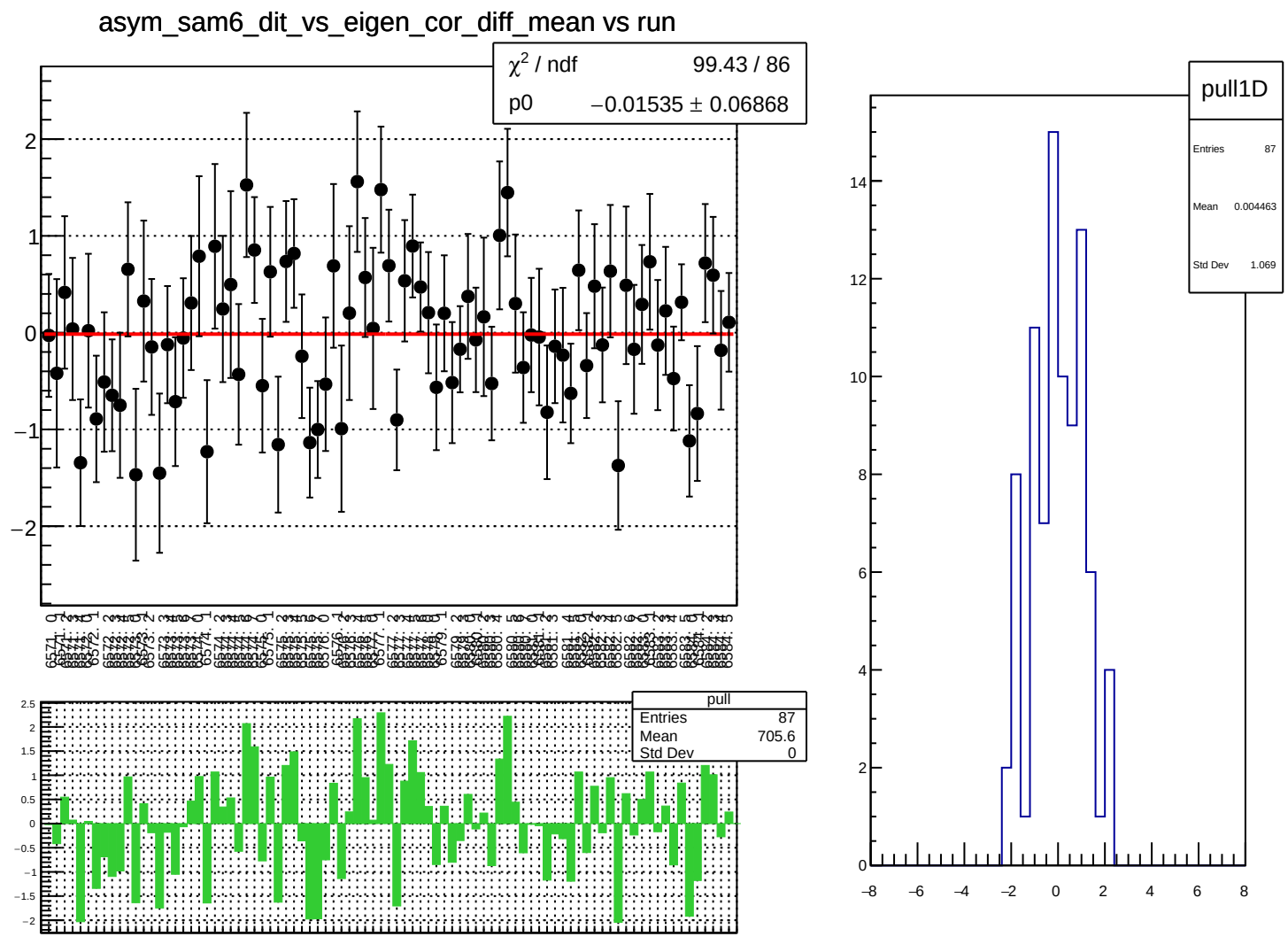

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 86
p0 2.378e−14 ± 2.368e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean −35.92
Std Dev 0
2
1
0
−1
−2
−3

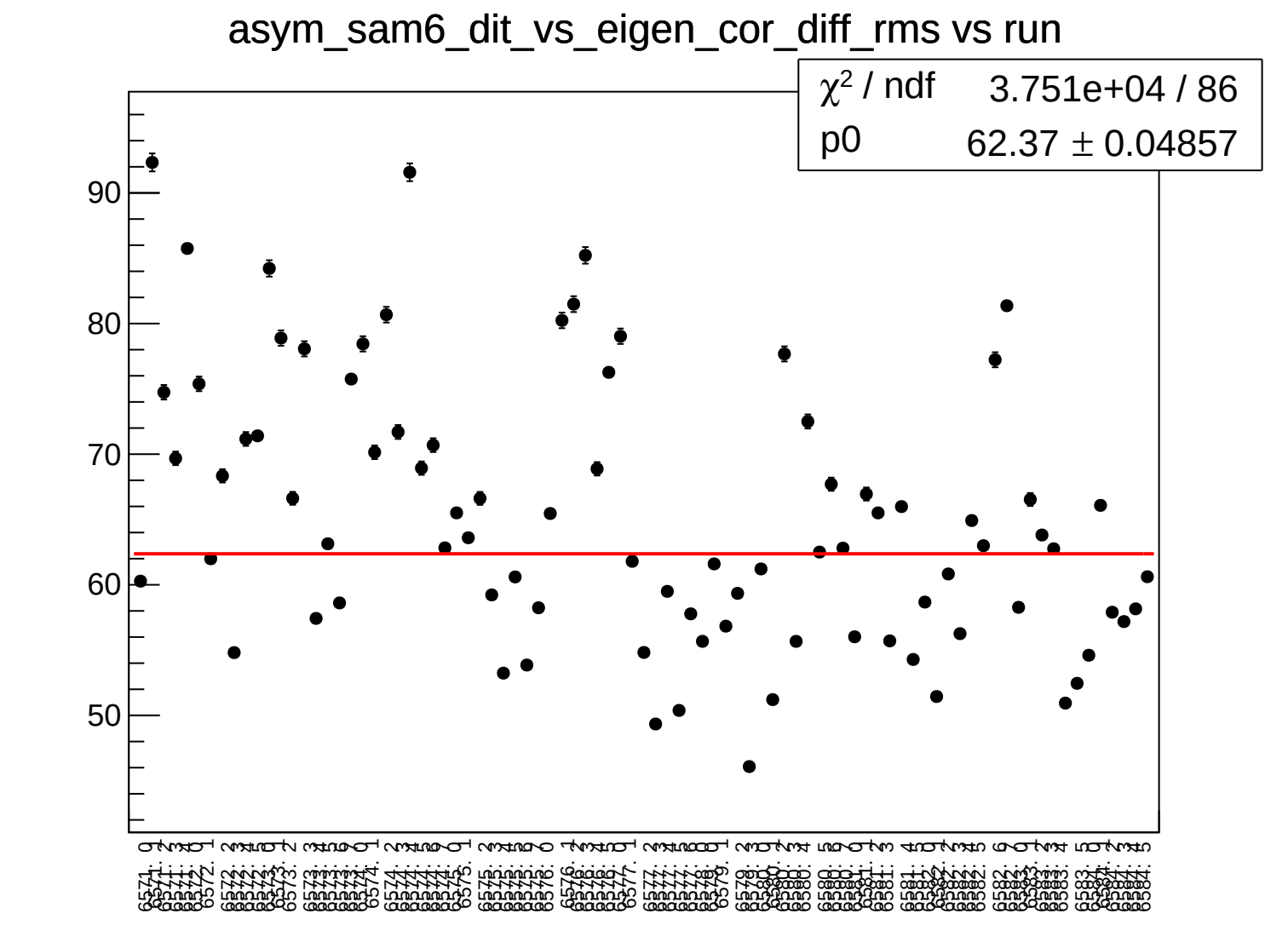

pull1D
Entries 87
Mean −0.05665
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

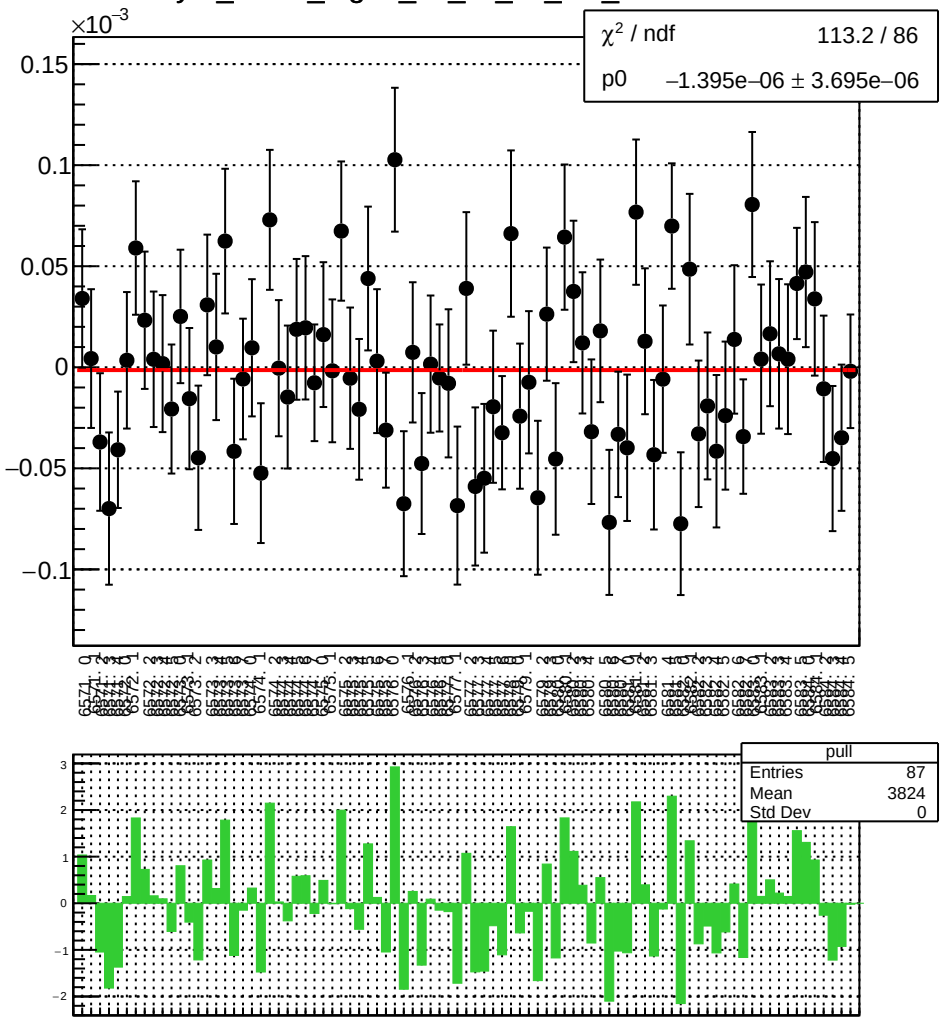

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 86
p0 1.292e−11 ± 1.675e−14
0.1
0.08
0.06
0.04
0.02
0

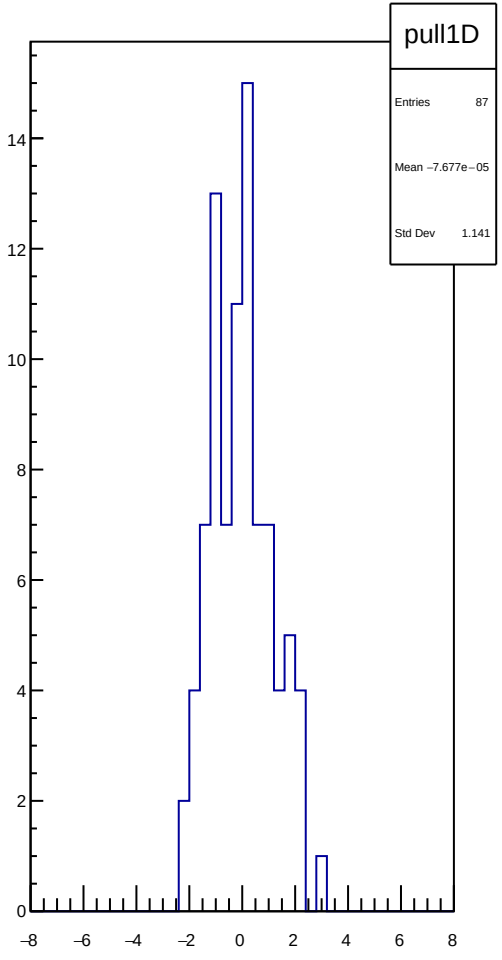

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 99.43 / 86
p0 −0.01535 ± 0.06868
pull
Entries 87
Mean 705.6
Std Dev 0
pull1D
Entries 87
Mean 0.004463
Std Dev 1.069

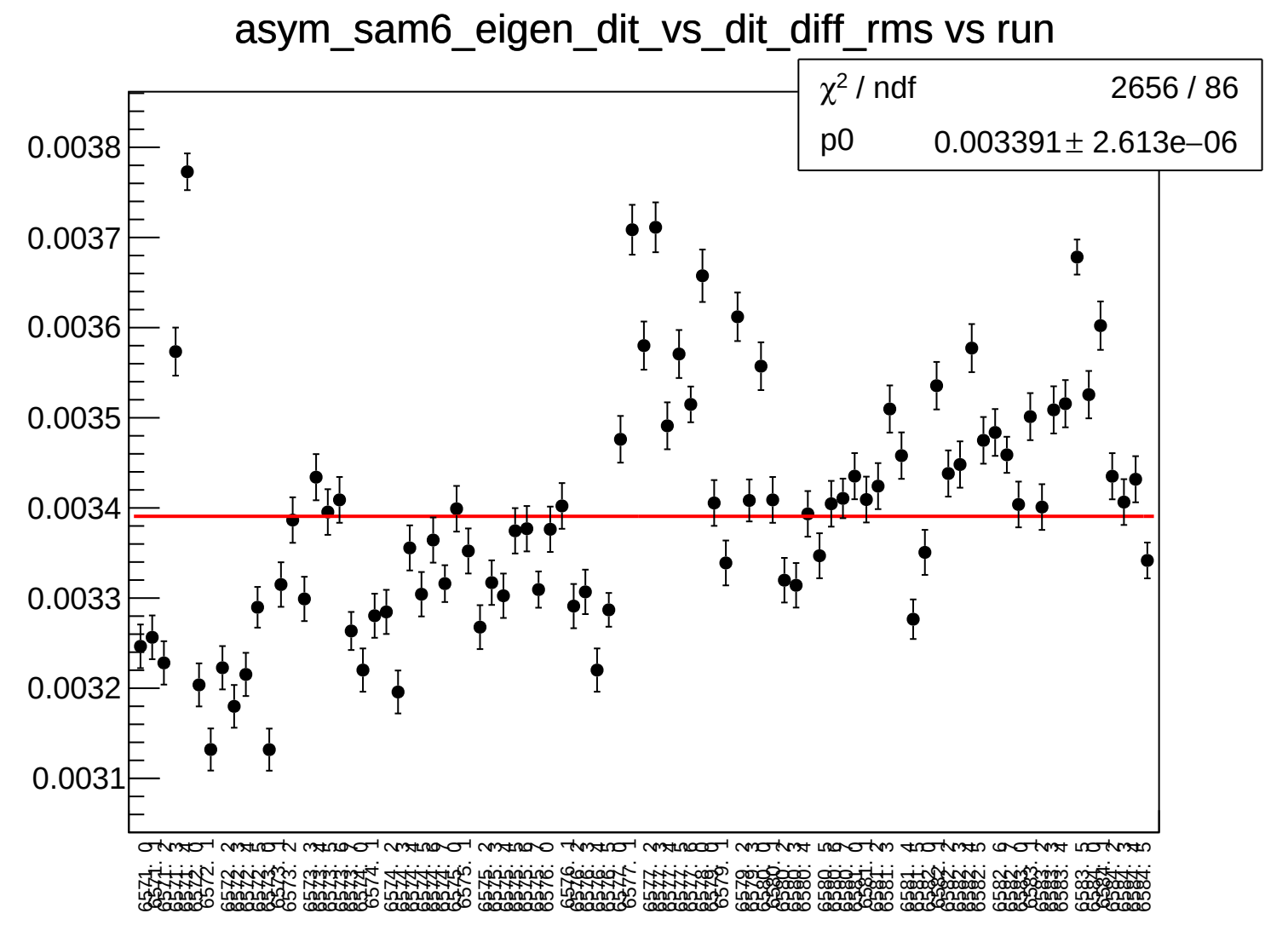

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 3.751e+04 / 86
p0 62.37 ± 0.04857
90
80
70
60
50

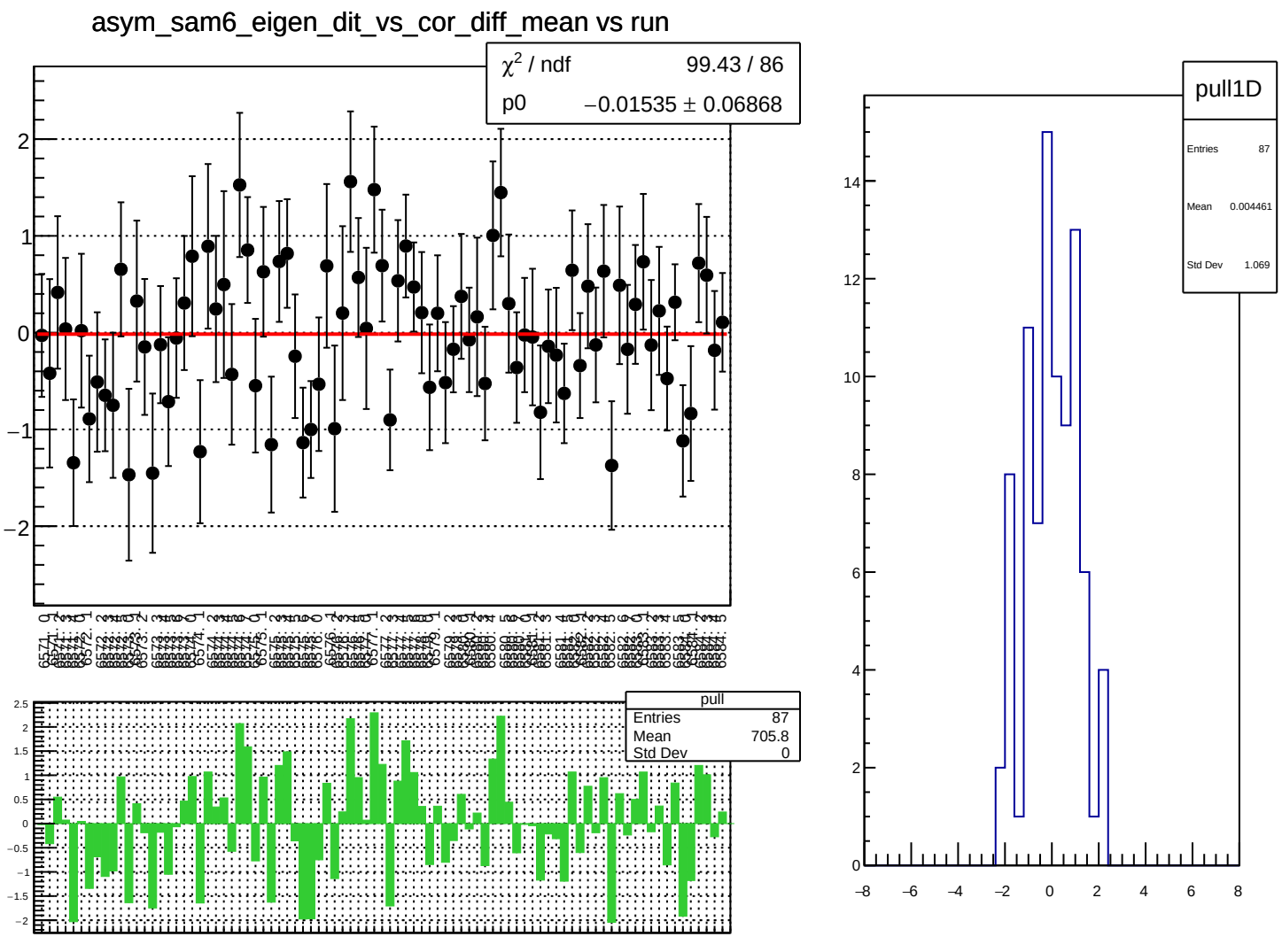

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.43 / 86
p0 −0.01535 ± 0.06868
pull
Entries 87
Mean 705.6
Std Dev 0
pull1D
Entries 87
Mean 0.004463
Std Dev 1.069

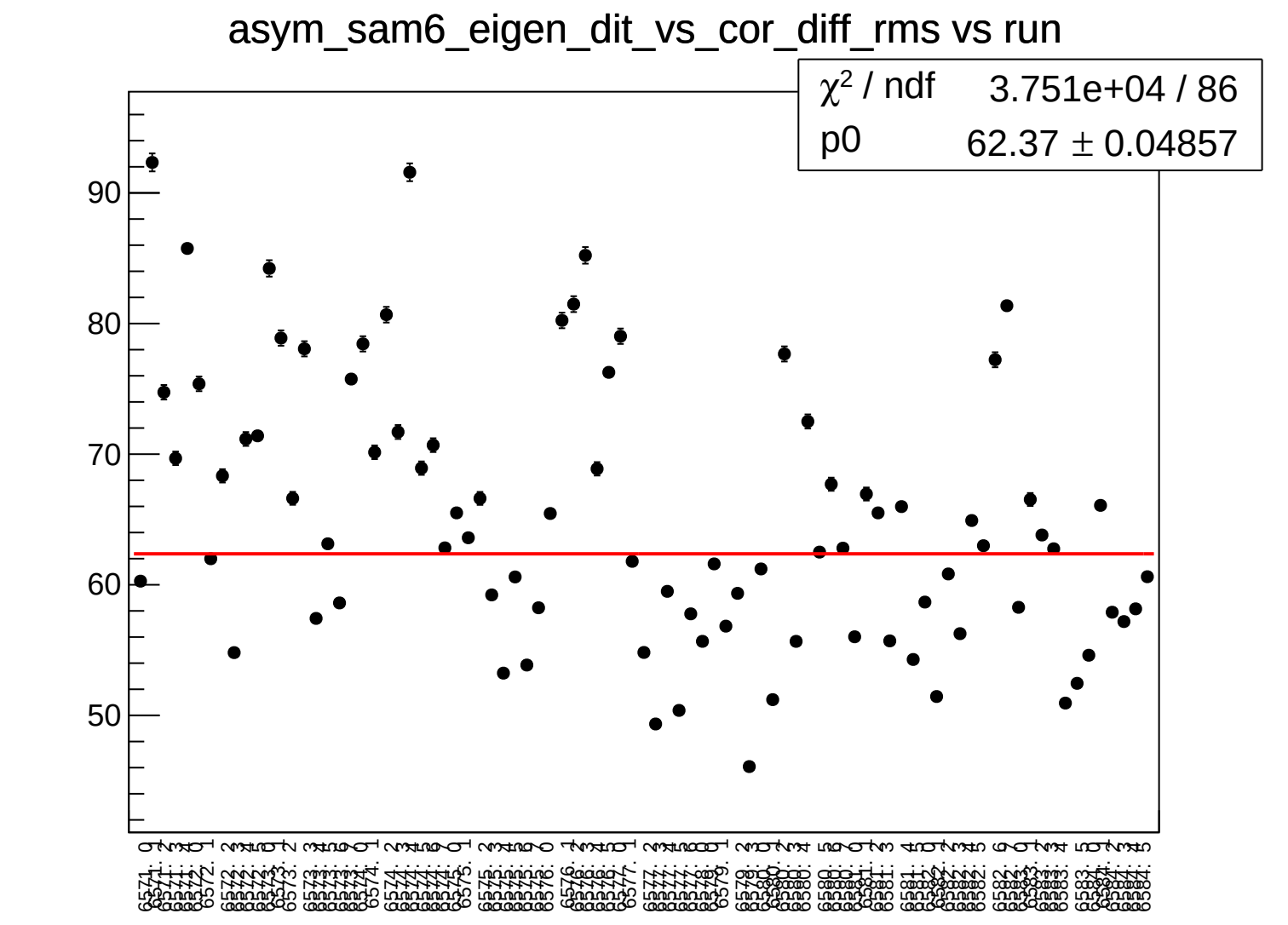

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.751e+04 / 86
p0 62.37 ± 0.04857
90
80
70
60
50

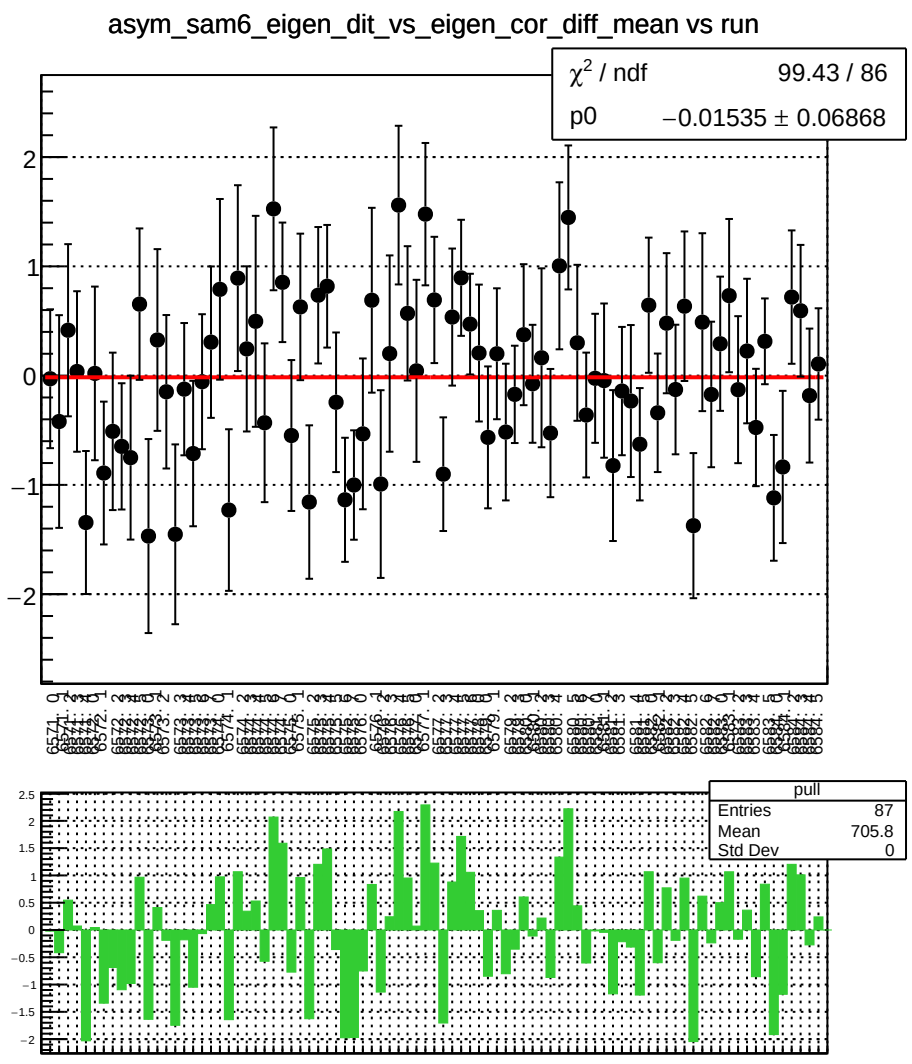

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.2 / 86
p0 −1.395e−06 ± 3.695e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 3824
Std Dev 0
3
2
1
0
−1
−2

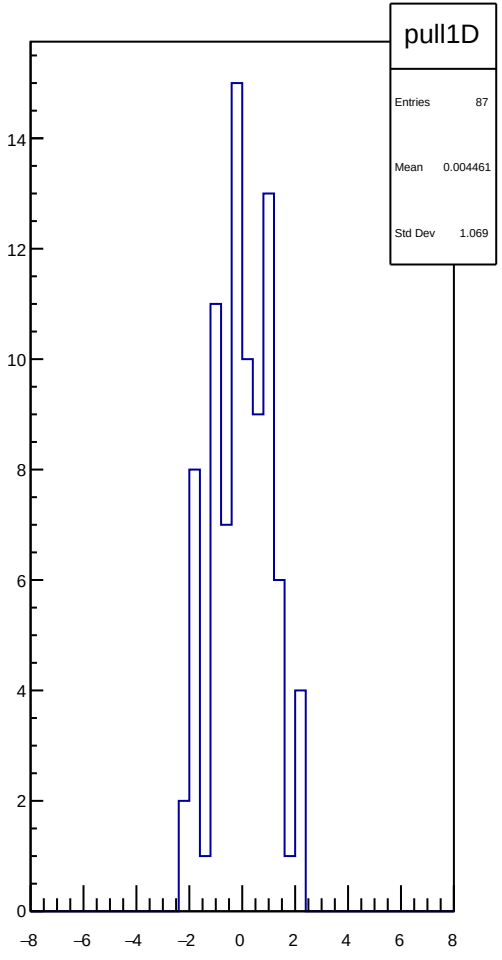

pull1D
Entries 87
Mean −7.677e−05
Std Dev 1.141
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

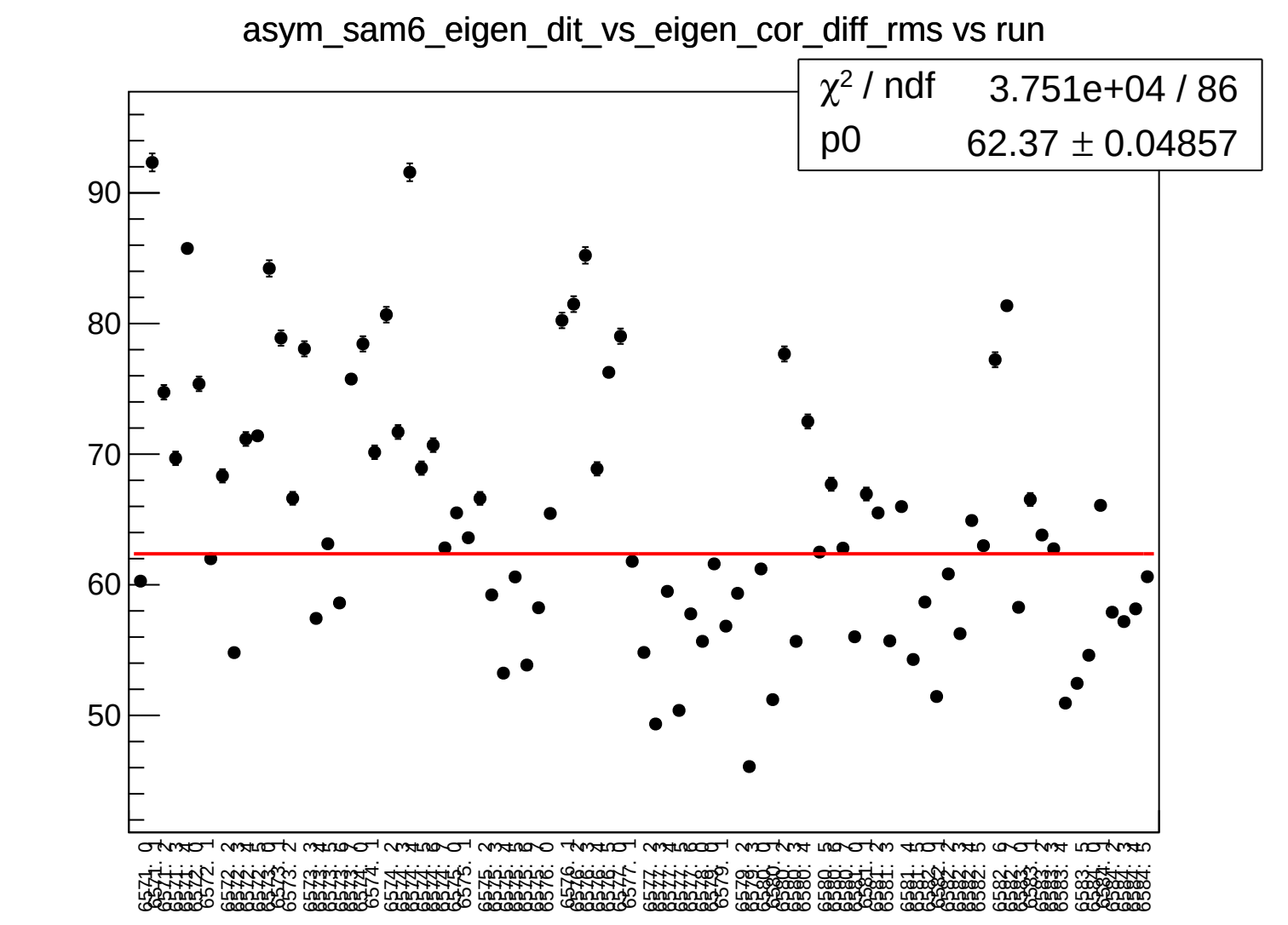

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2656 / 86
p0 0.003391 ± 2.613e−06
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031

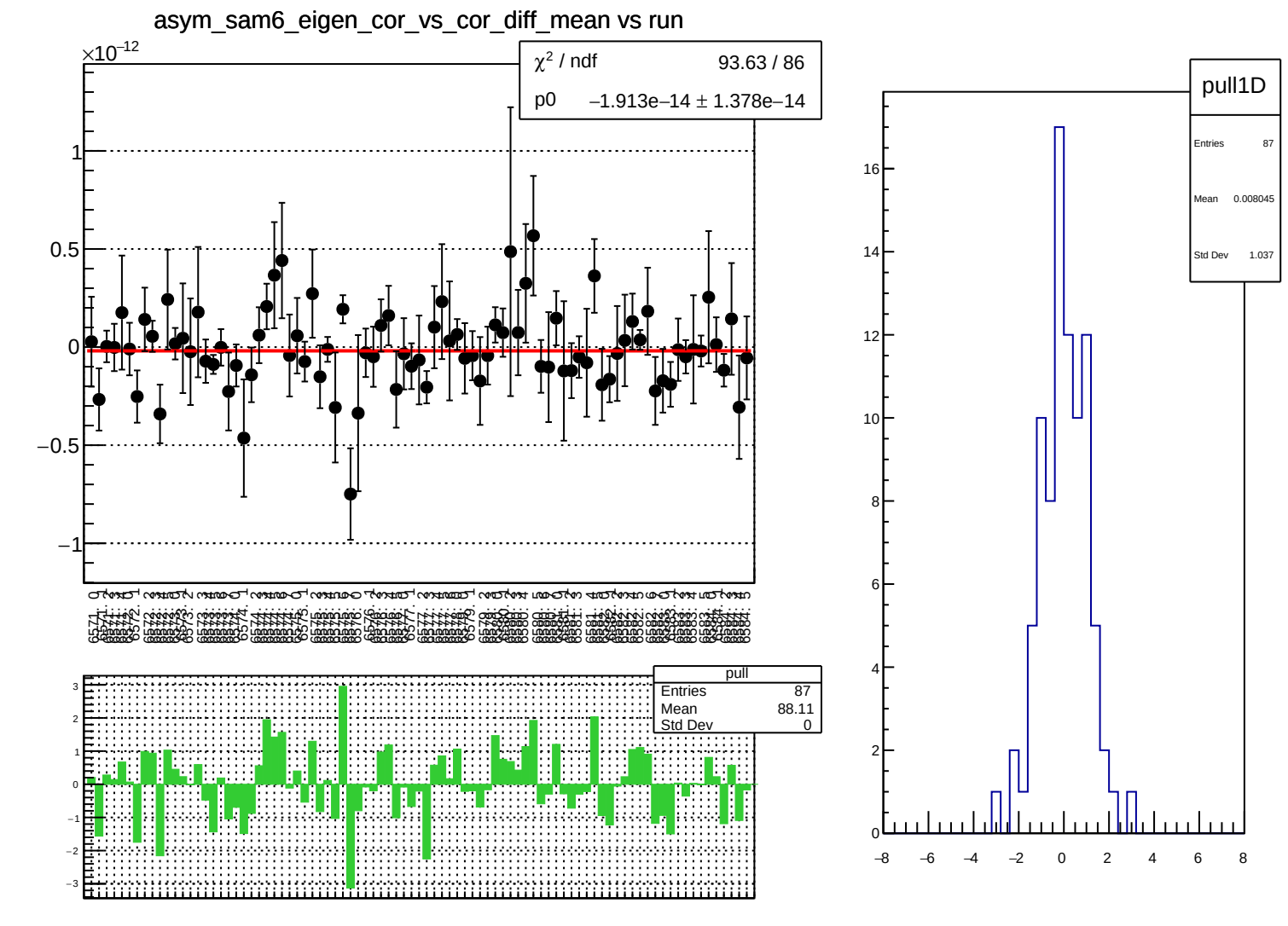

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.43 / 86
p0 −0.01535 ± 0.06868
pull
Entries 87
Mean 705.8
Std Dev 0
pull1D
Entries 87
Mean 0.004461
Std Dev 1.069

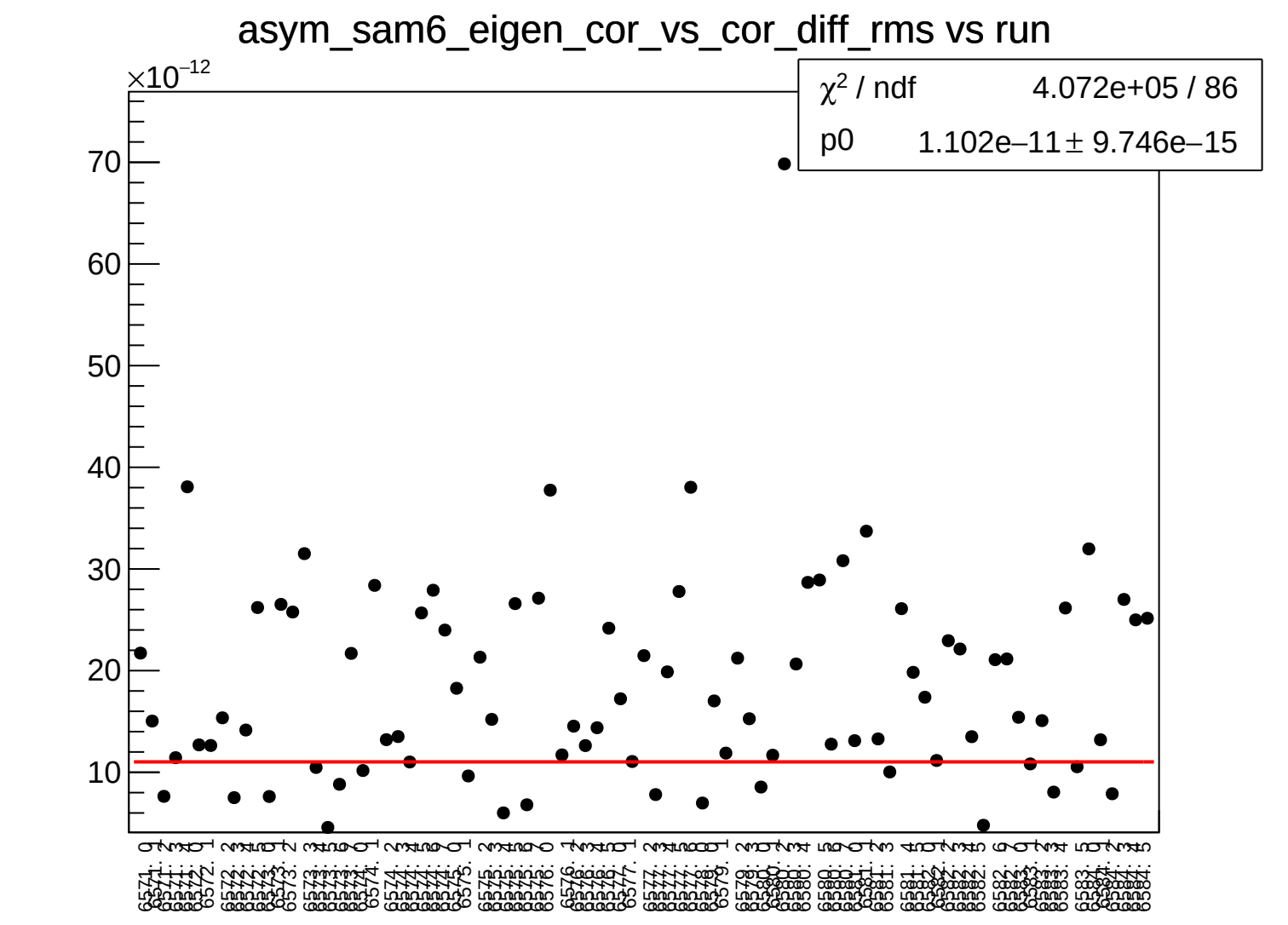

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.751e+04 / 86
p0 62.37 ± 0.04857
90
80
70
60
50

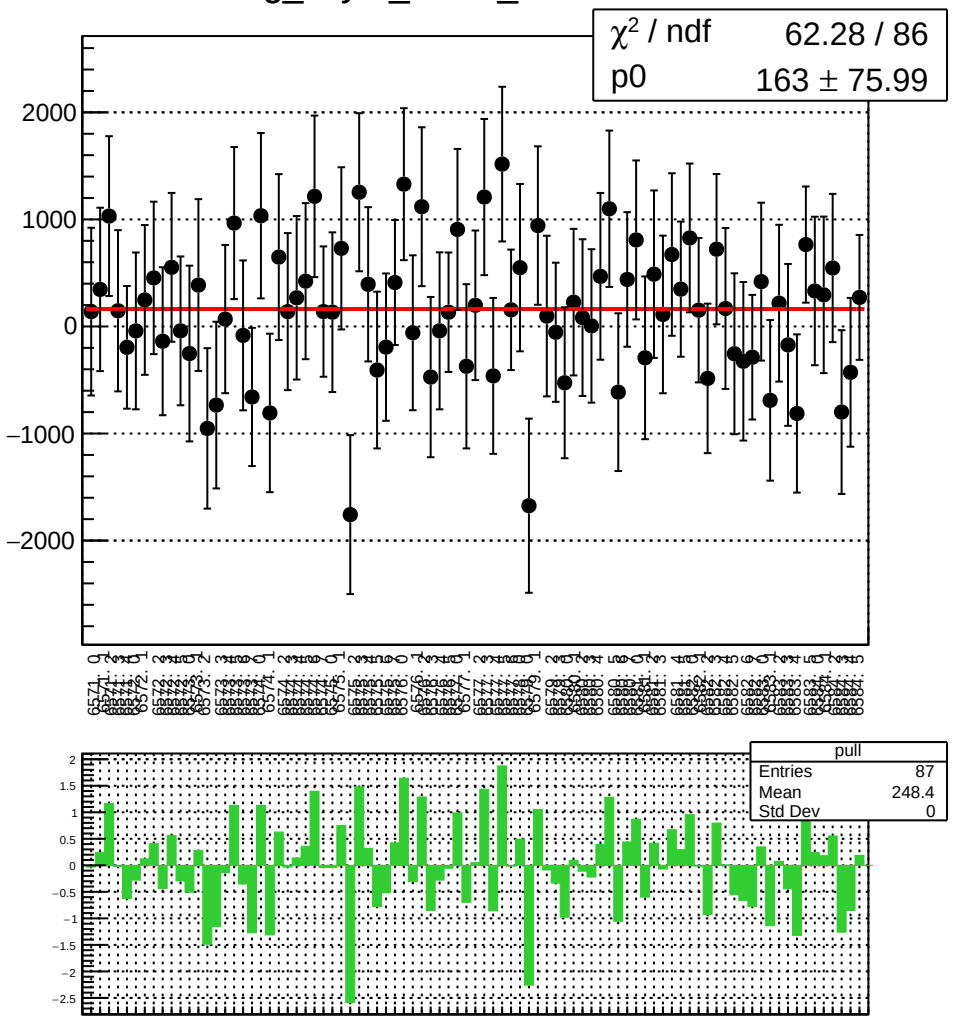

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.43 / 86
p0 −0.01535 ± 0.06868
pull
Entries 87
Mean 705.8
Std Dev 0

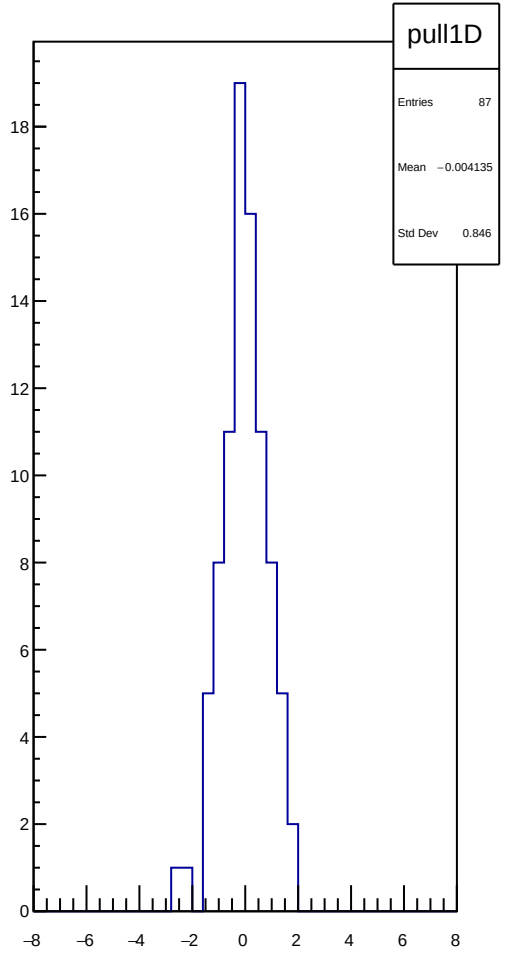

pull1D
Entries 87
Mean 0.004461
Std Dev 1.069

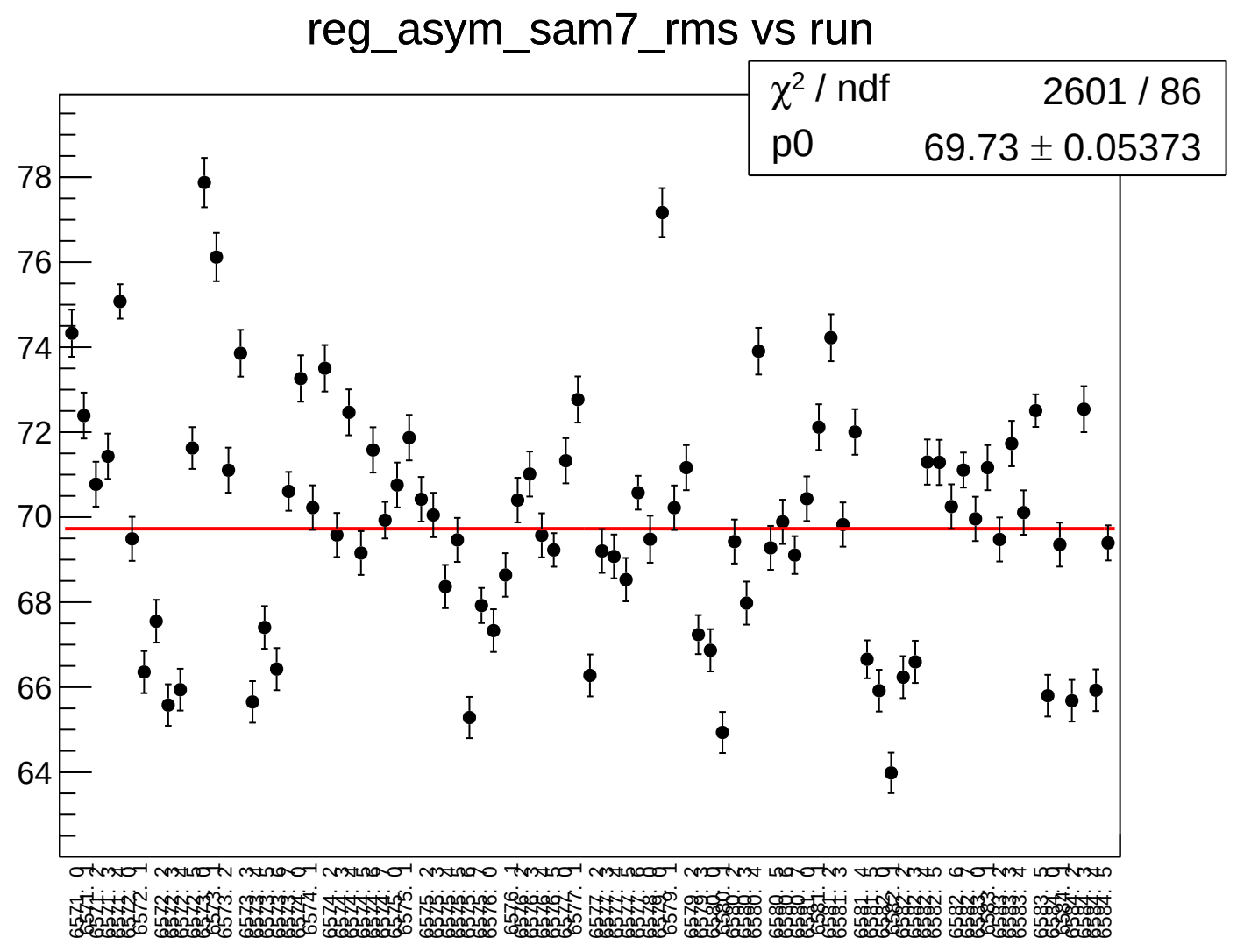

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.751e+04 / 86
p0 62.37 ± 0.04857
90
80
70
60
50

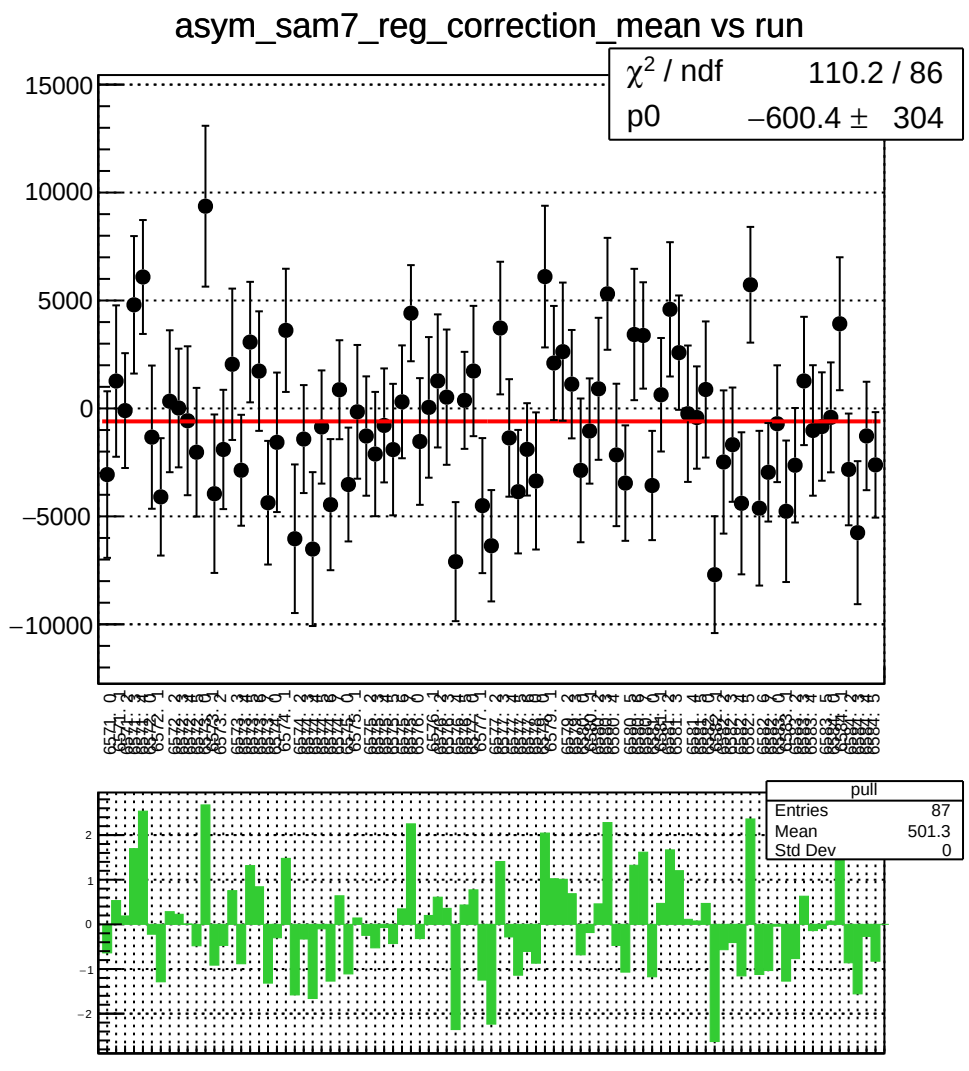

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.63 / 86
p0 −1.913e−14 ± 1.378e−14
pull
Entries 87
Mean 88.11
Std Dev 0
pull1D
Entries 87
Mean 0.008045
Std Dev 1.037

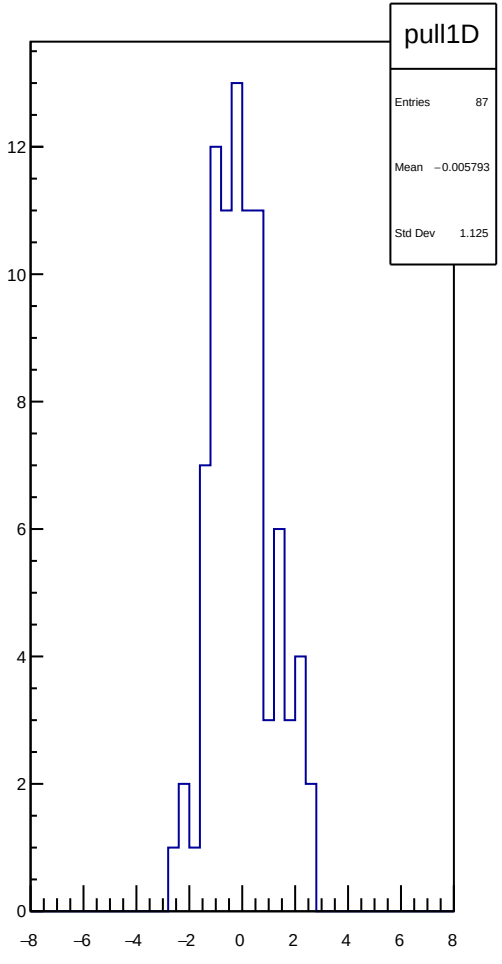

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.072e+05 / 86
p0 1.102e−11 ± 9.746e−15
70
60
50
40
30
20
10


reg_asym_sam7_mean vs run
χ² / ndf 62.28 / 86
p0 163 ± 75.99
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 248.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

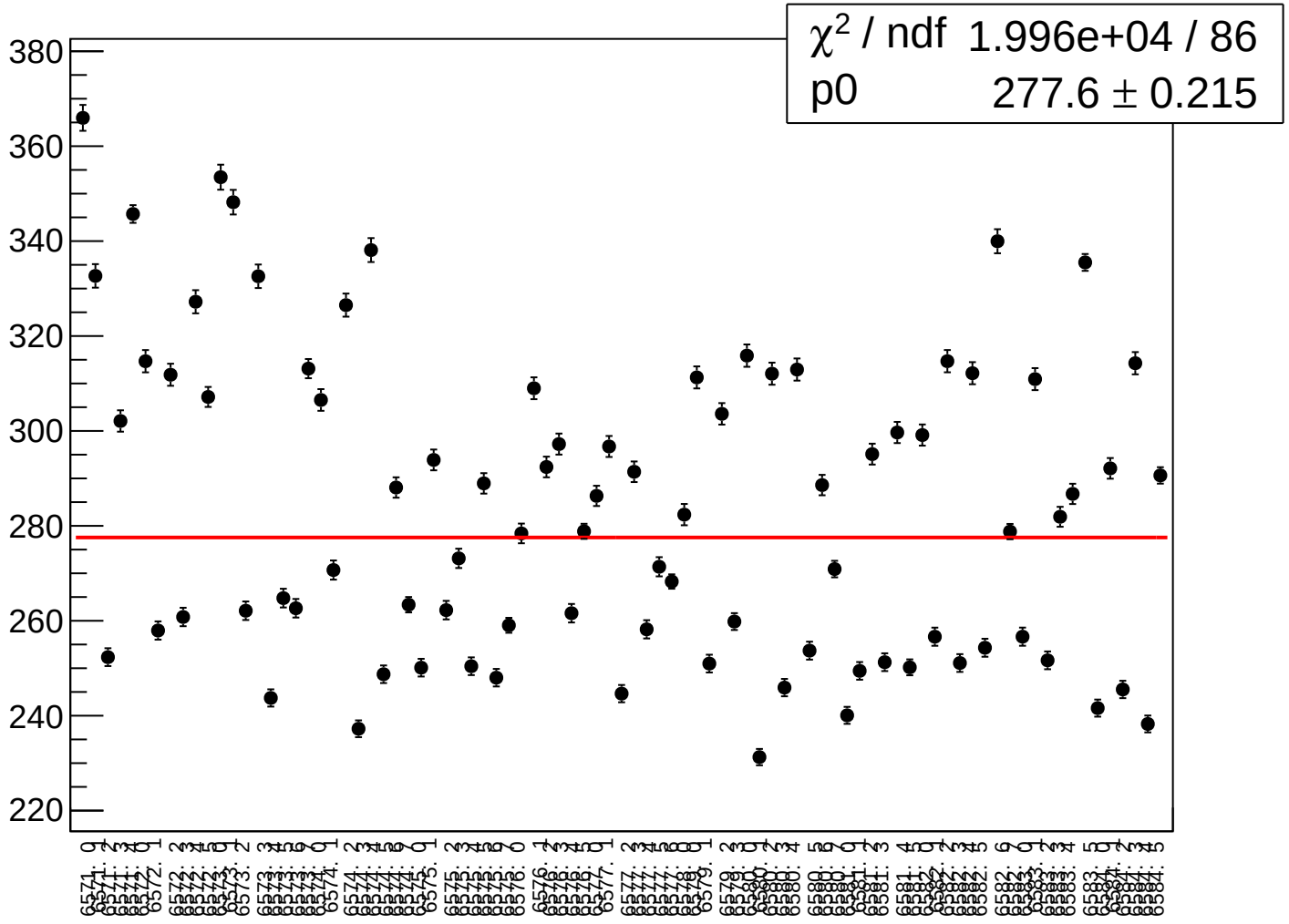

pull1D
Entries 87
Mean −0.004135
Std Dev 0.846
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

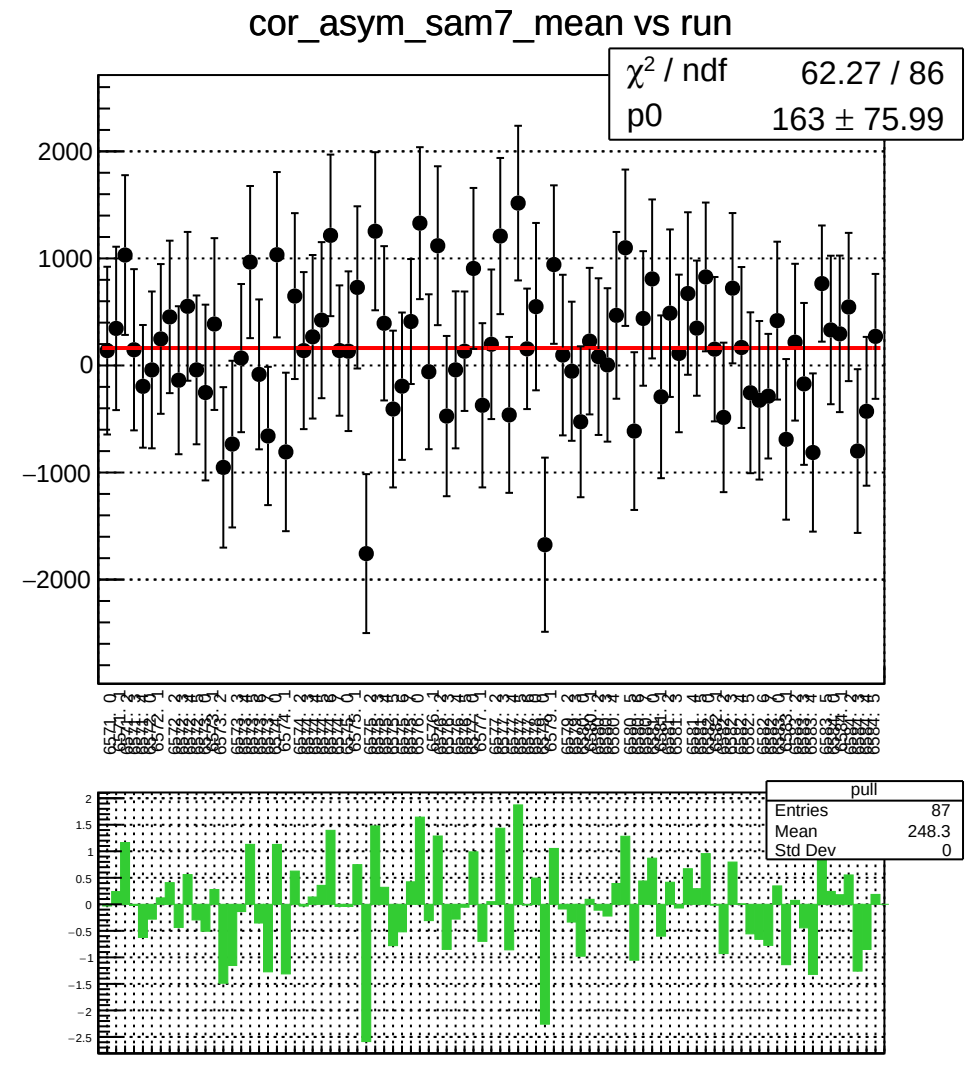

reg_asym_sam7_rms vs run
χ² / ndf 2601 / 86
p0 69.73 ± 0.05373
78
76
74
72
70
68
66
64

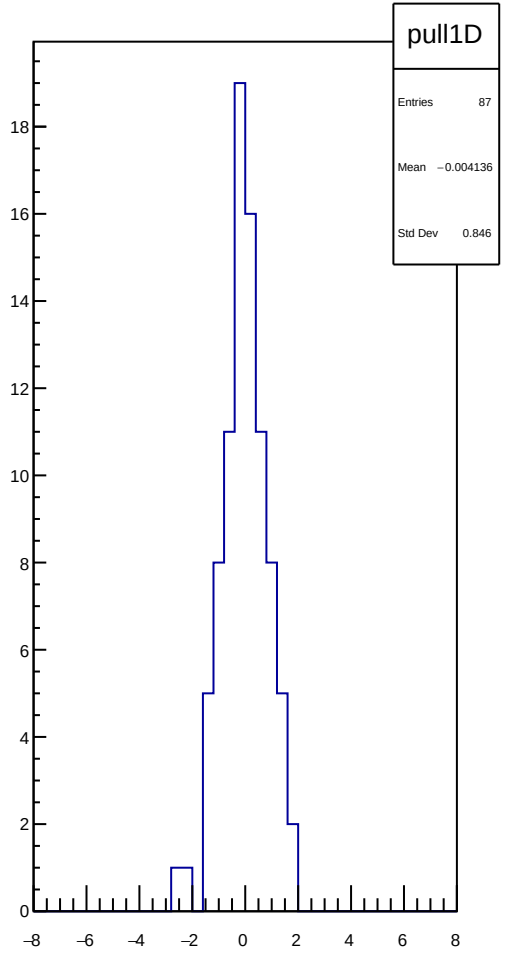

asym_sam7_reg_correction_mean vs run
χ² / ndf 110.2 / 86
p0 −600.4 ± 304
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 501.3
Std Dev 0
2
1
0
−1
−2

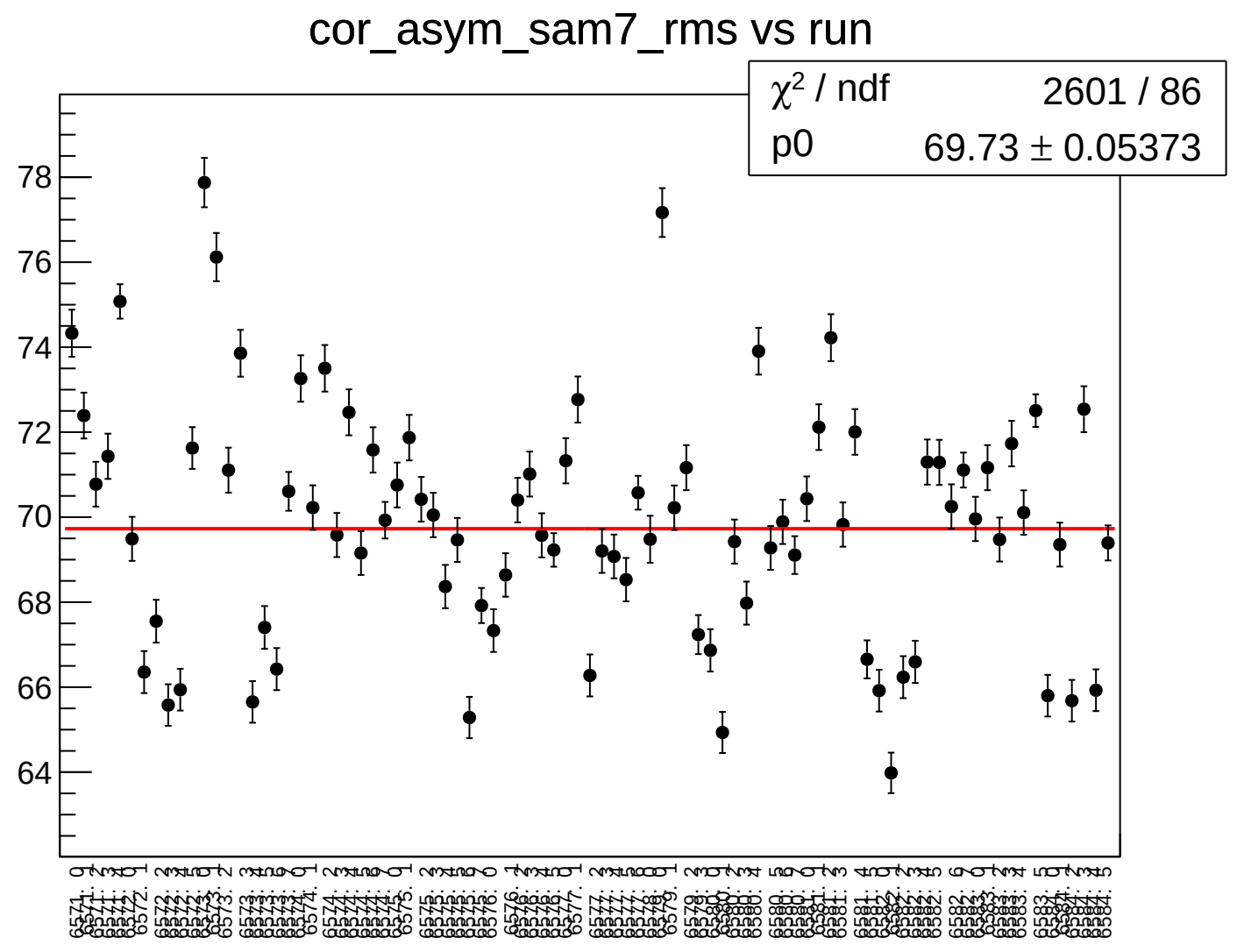

pull1D
Entries 87
Mean −0.005793
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

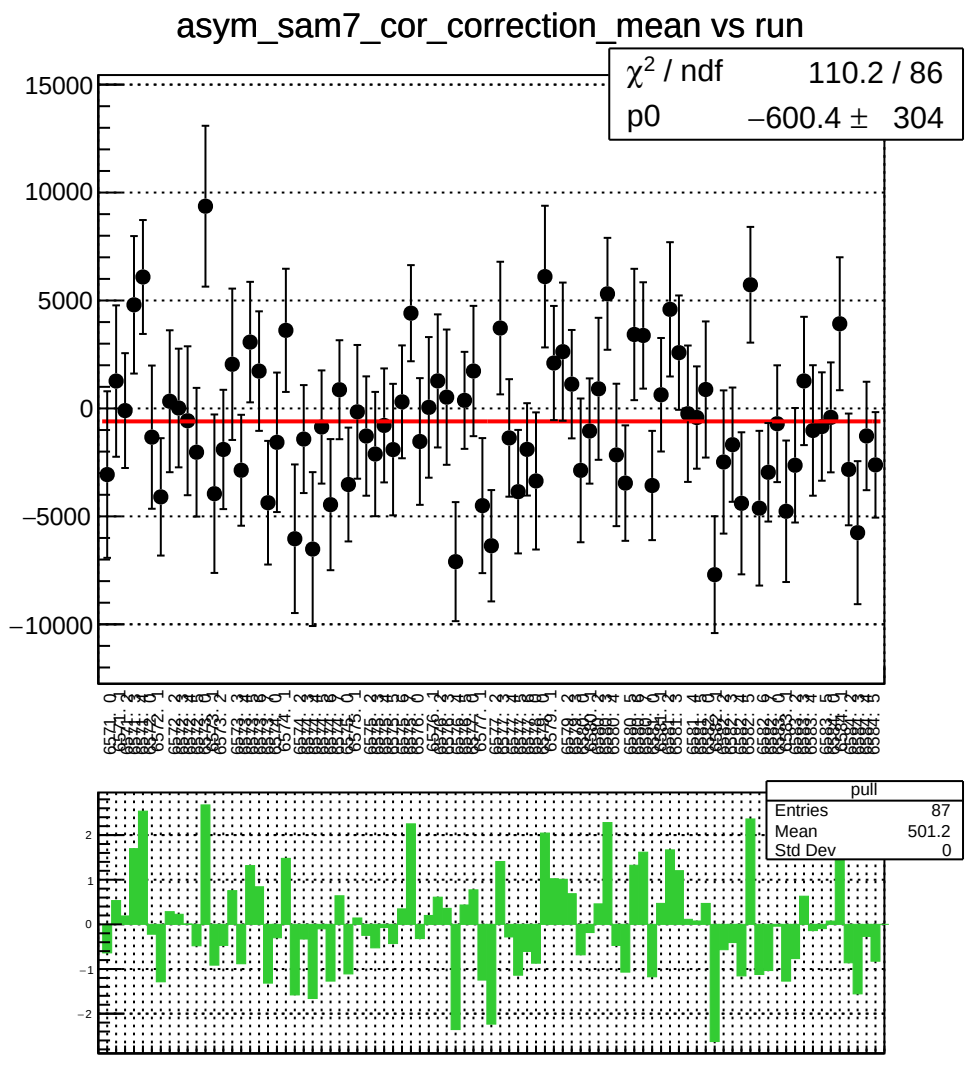
asym_sam7_reg_correction_rms vs run

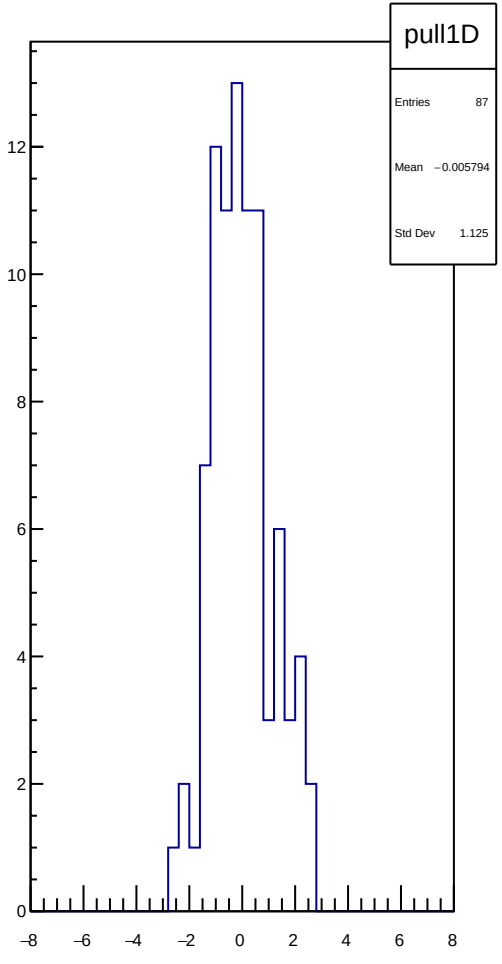



cor_asym_sam7_mean vs run
χ² / ndf 62.27 / 86
p0 163 ± 75.99
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 248.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

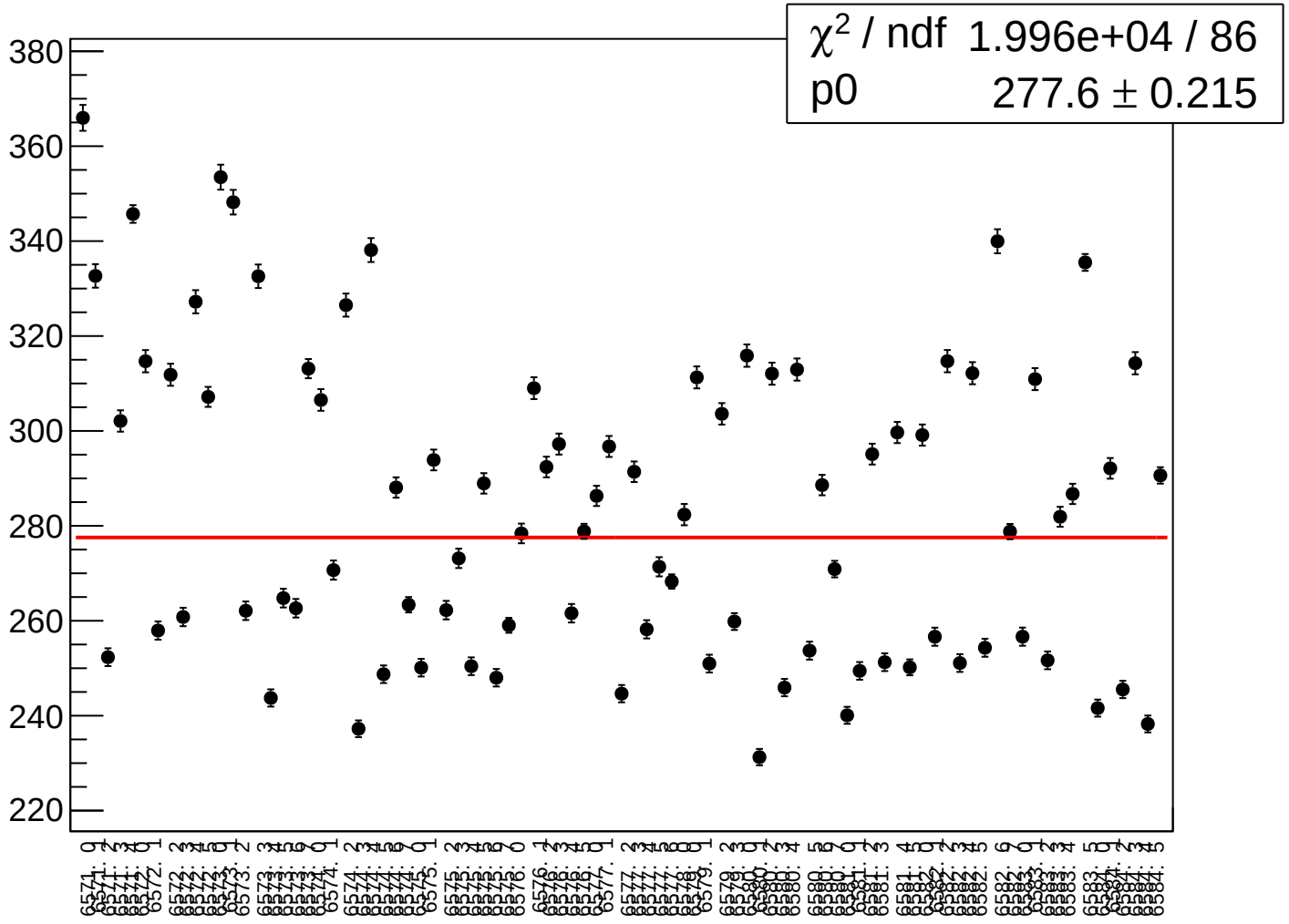

pull1D
Entries 87
Mean −0.004136
Std Dev 0.846
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

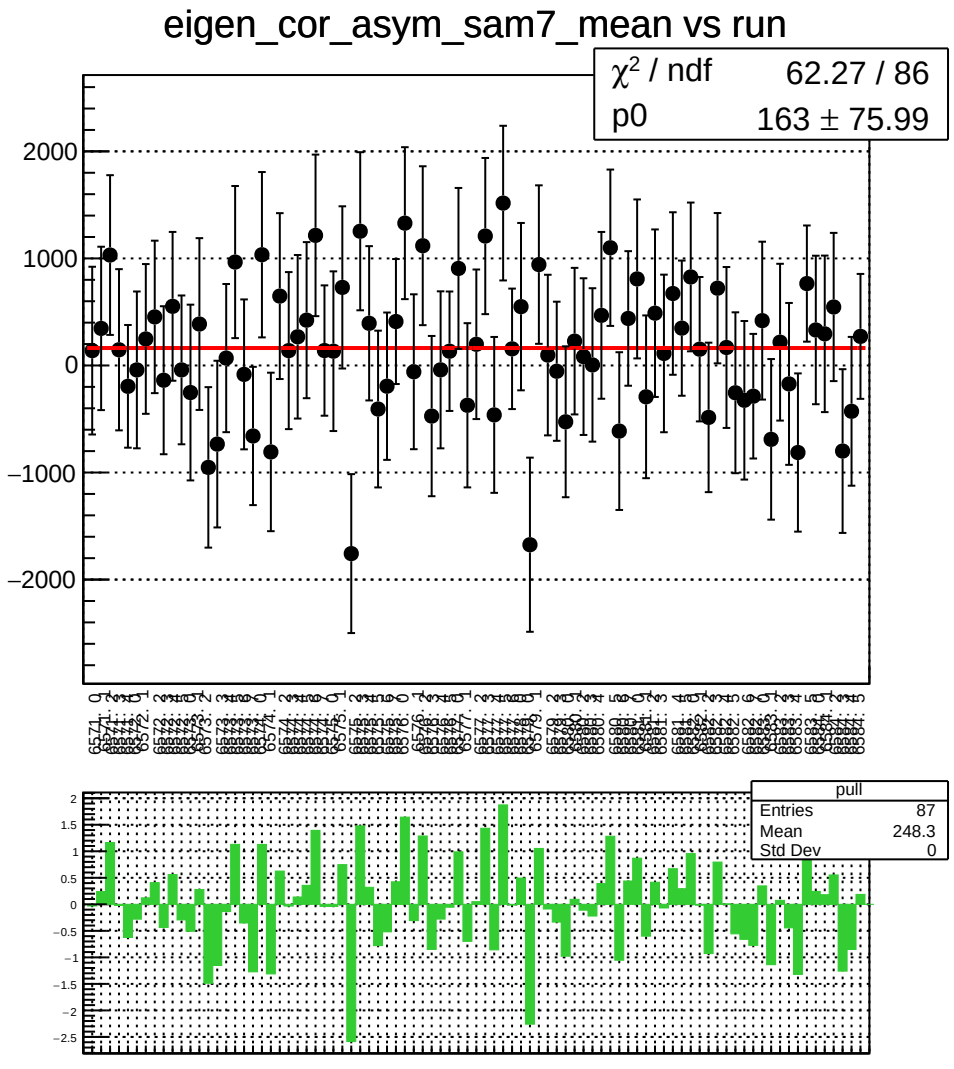

cor_asym_sam7_rms vs run
χ² / ndf 2601 / 86
p0 69.73 ± 0.05373
78
76
74
72
70
68
66
64

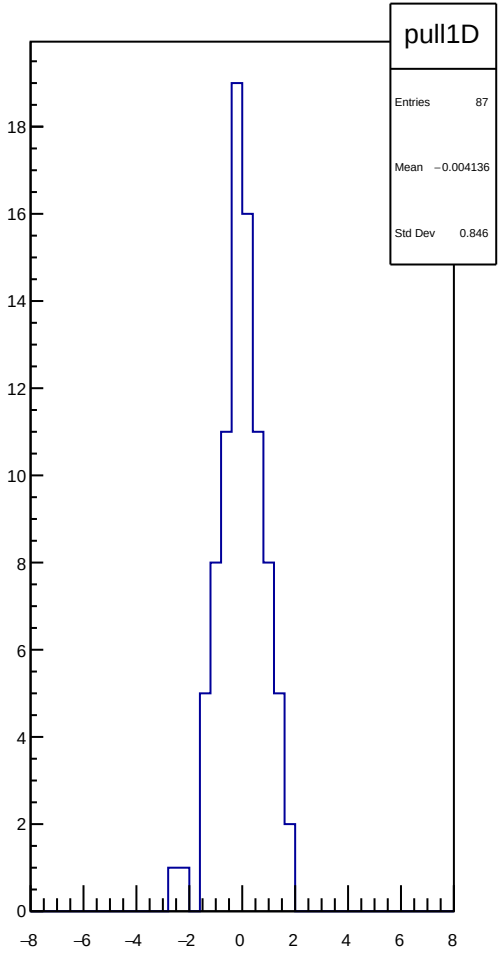

asym_sam7_cor_correction_mean vs run
χ² / ndf 110.2 / 86
p0 −600.4 ± 304
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 501.2
Std Dev 0
2
1
0
−1
−2

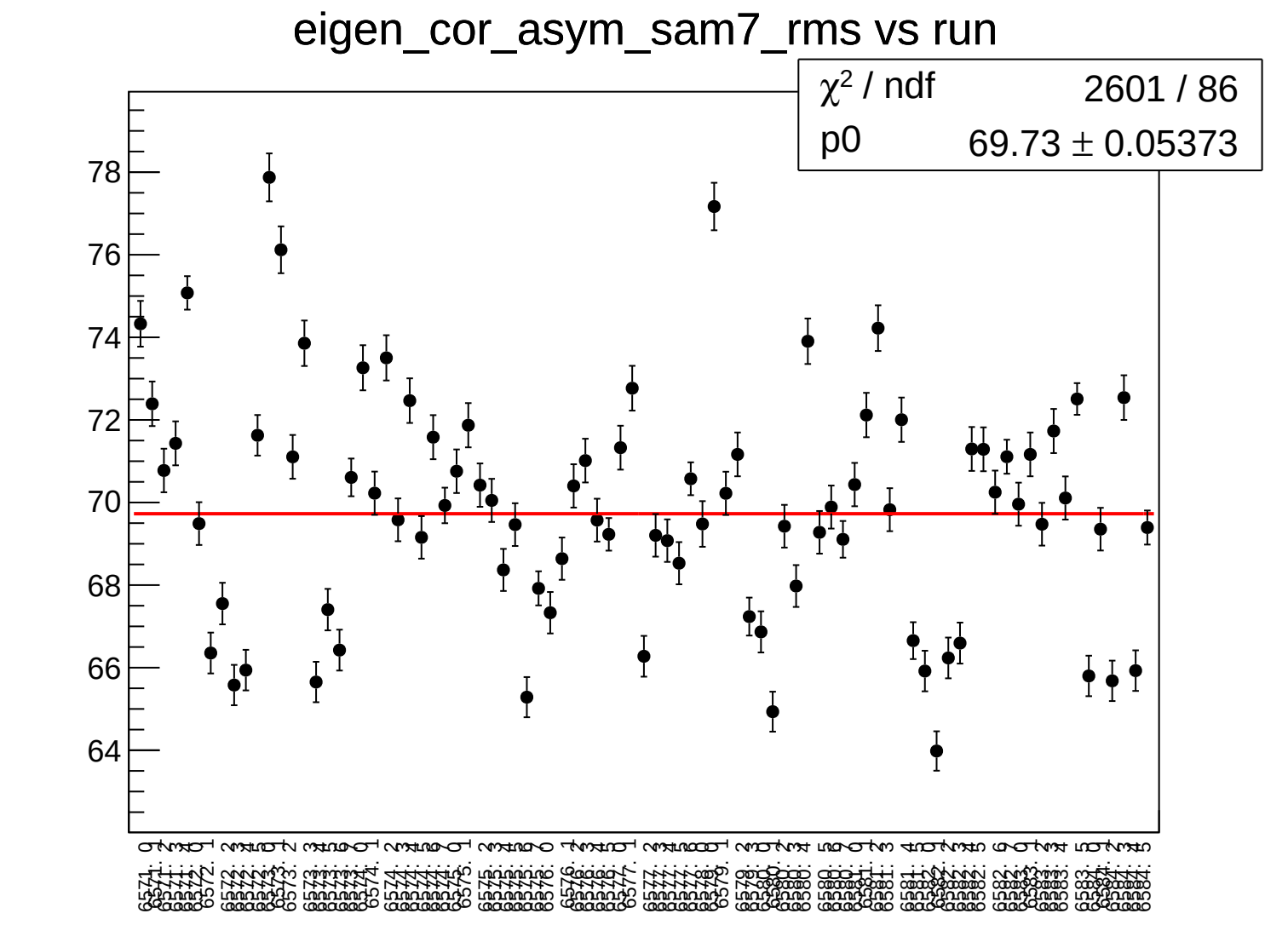

pull1D
Entries 87
Mean −0.005794
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

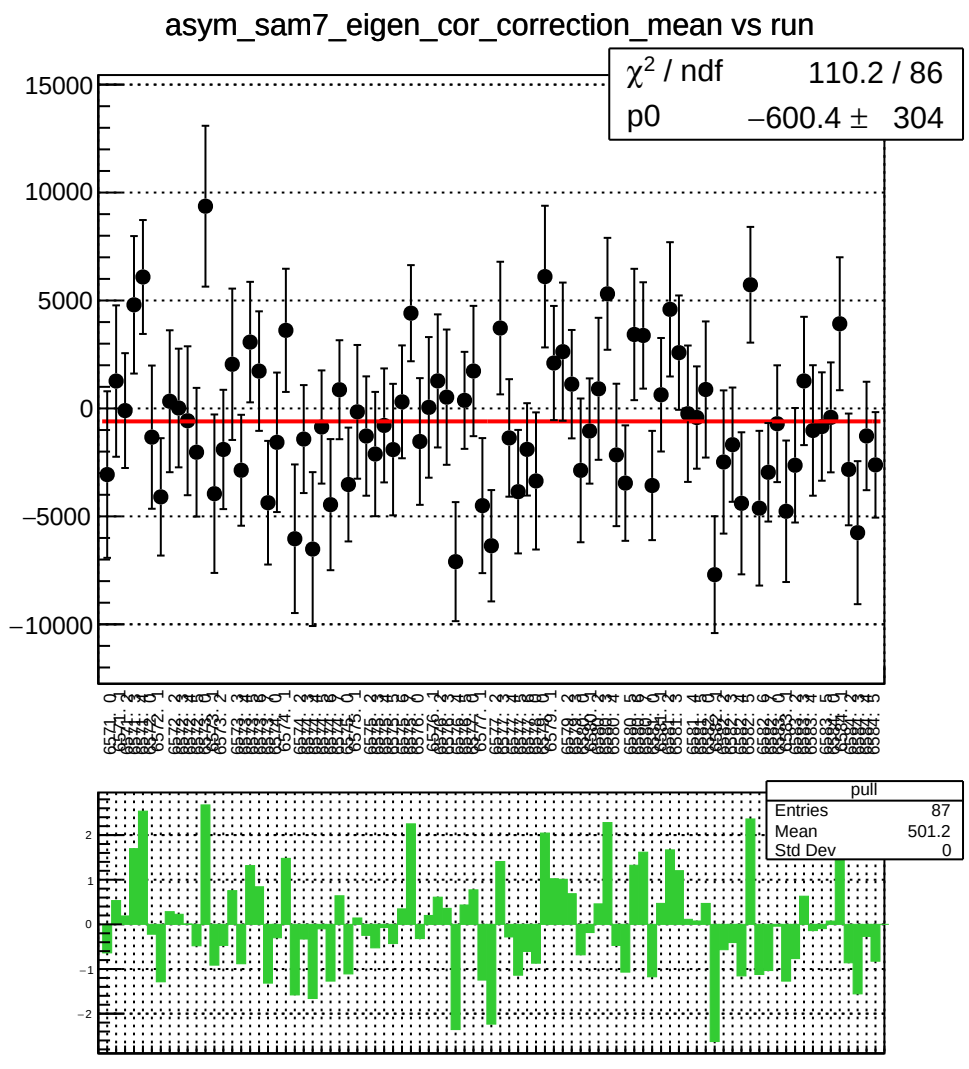
asym_sam7_cor_correction_rms vs run

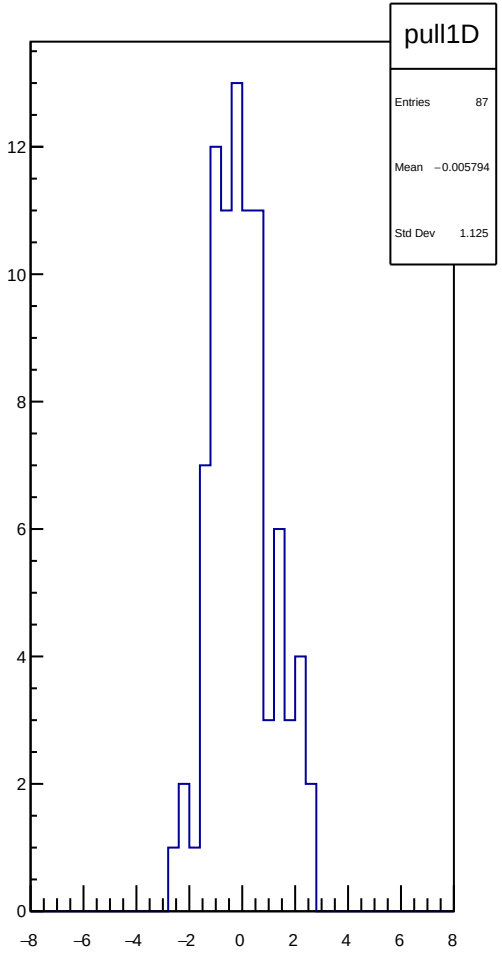


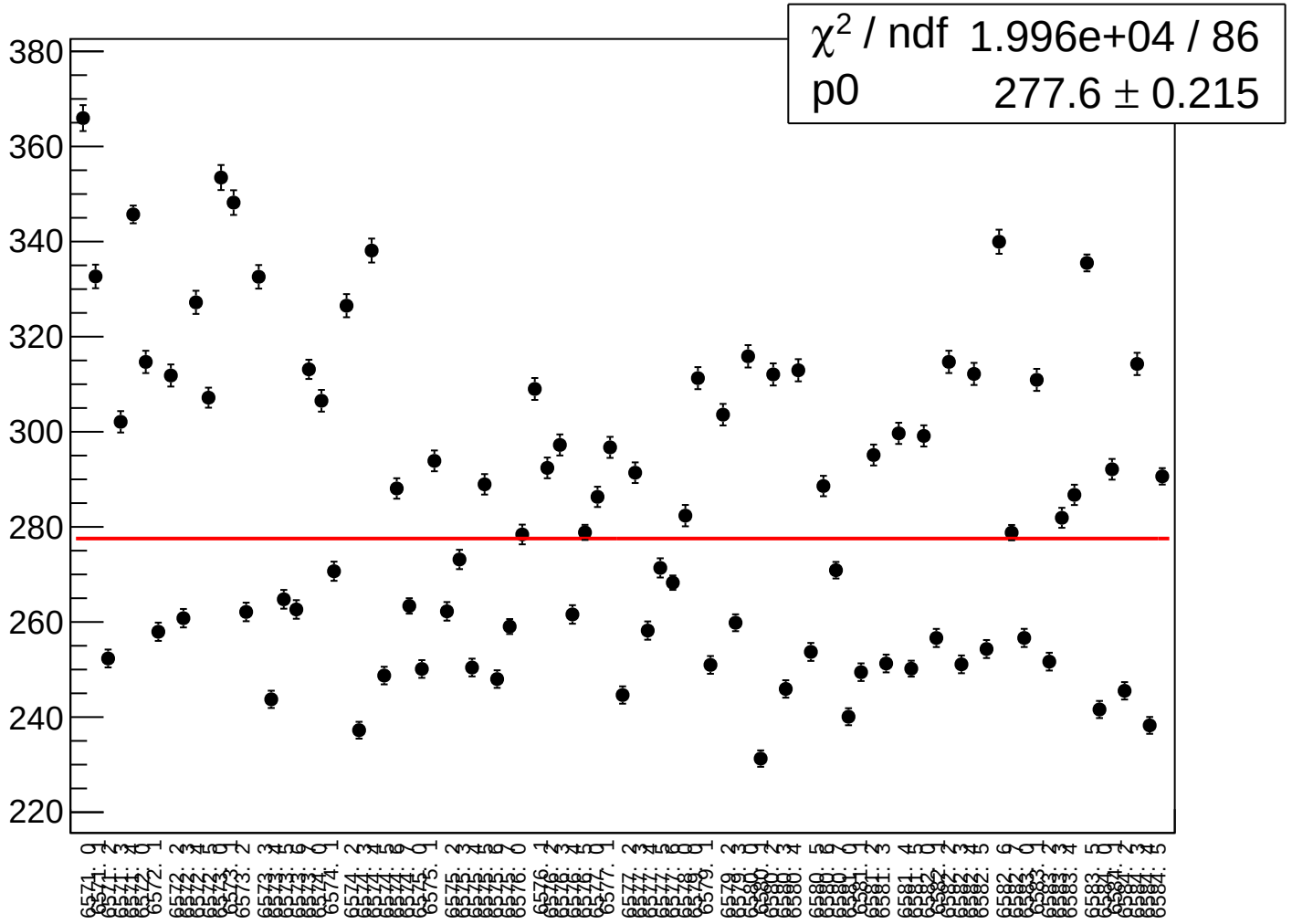

eigen_cor_asym_sam7_mean vs run
χ² / ndf 62.27 / 86
p0 163 ± 75.99
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 248.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

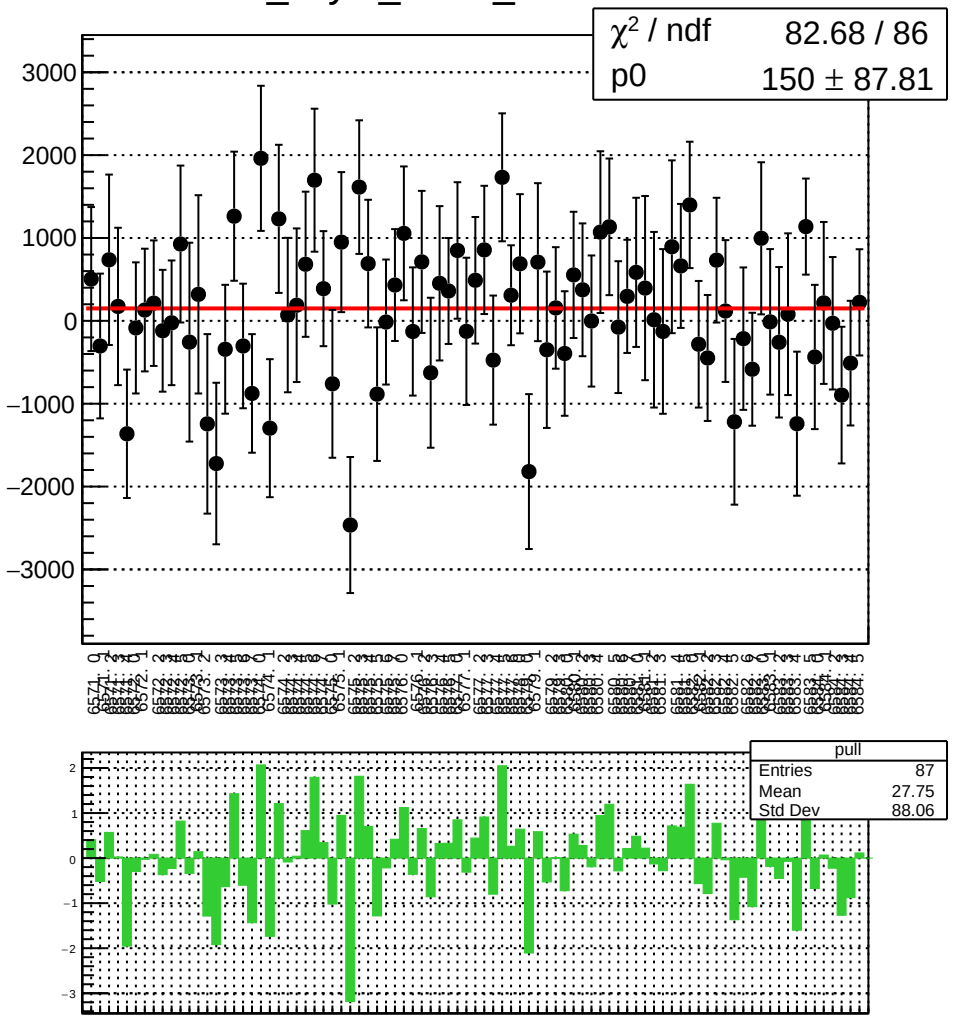

pull1D
Entries 87
Mean −0.004136
Std Dev 0.846
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

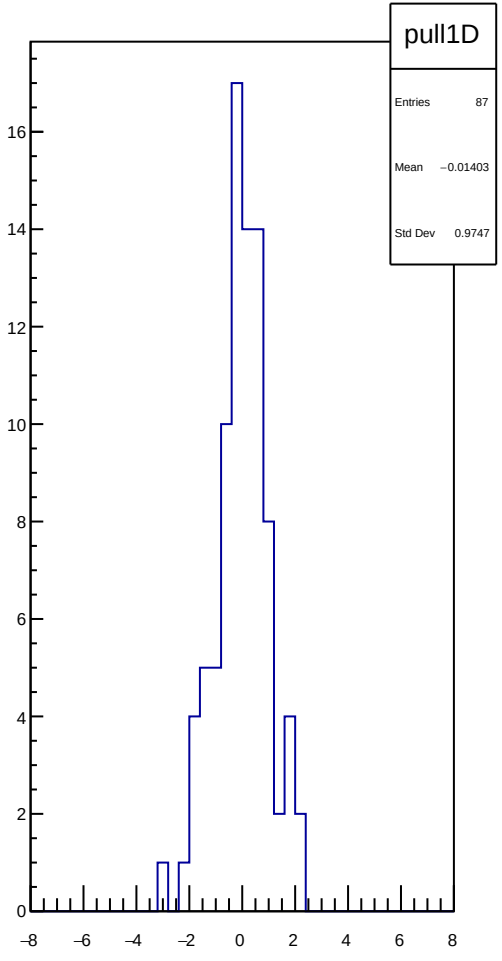

eigen_cor_asym_sam7_rms vs run
χ² / ndf 2601 / 86
p0 69.73 ± 0.05373
78
76
74
72
70
68
66
64

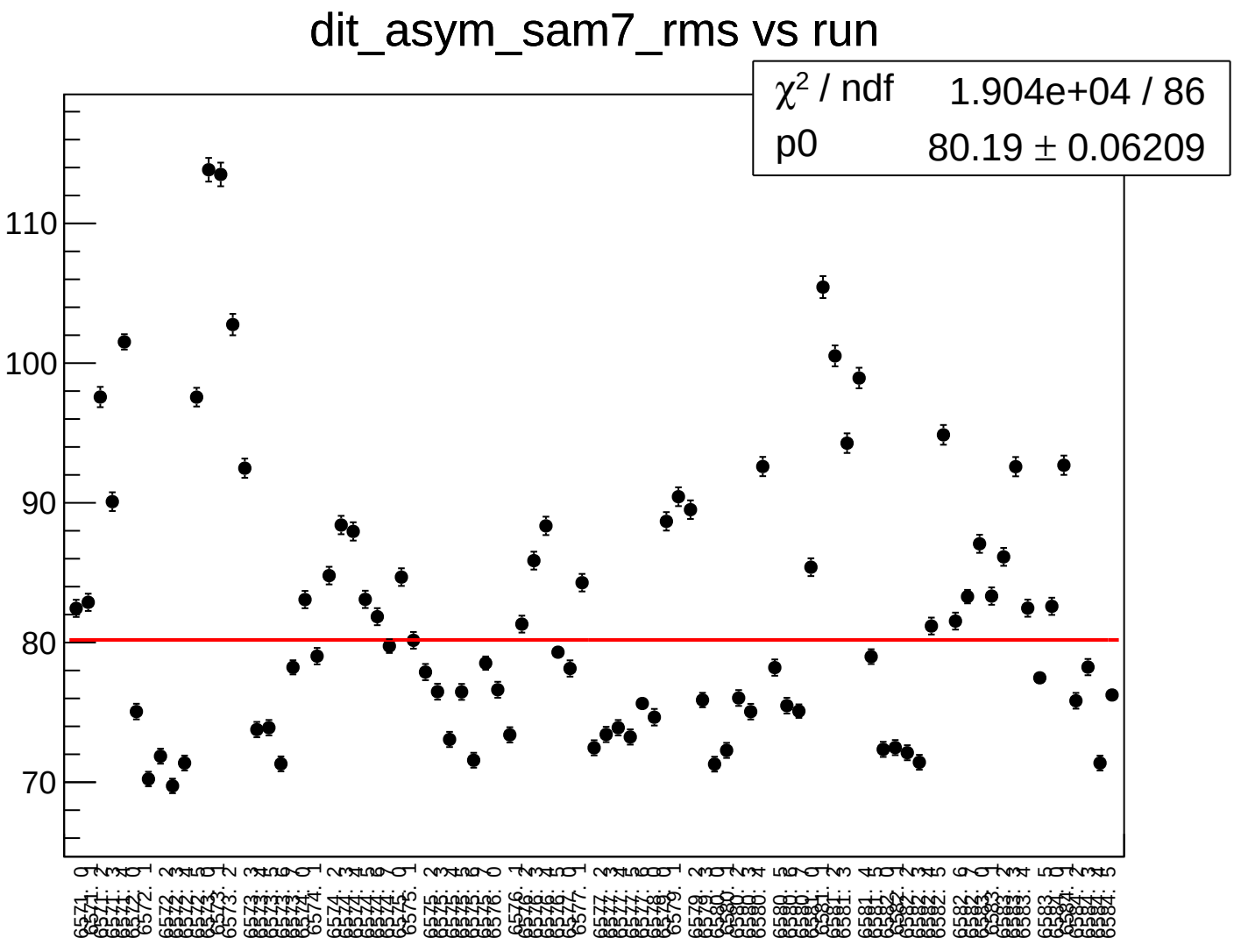

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 110.2 / 86
p0 −600.4 ± 304
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 501.2
Std Dev 0
2
1
0
−1
−2

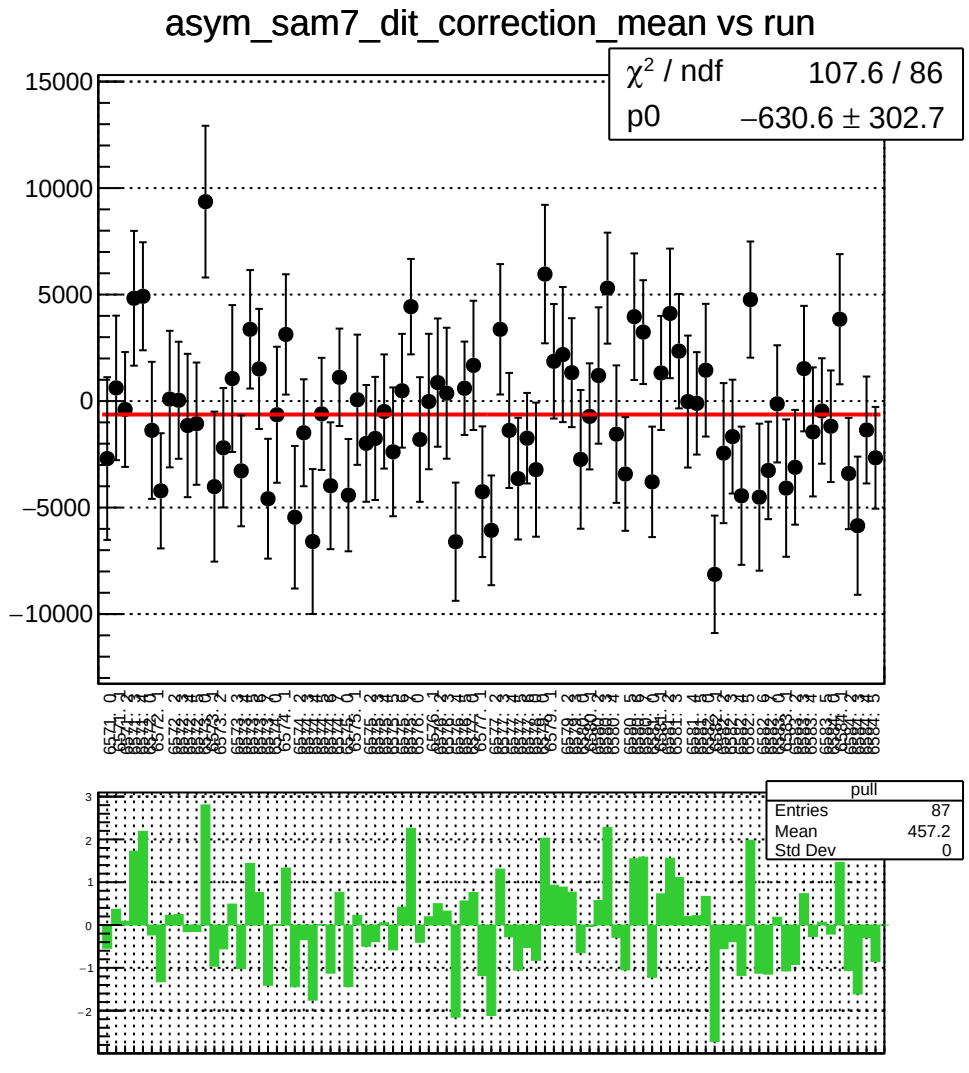

pull1D
Entries 87
Mean −0.005794
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

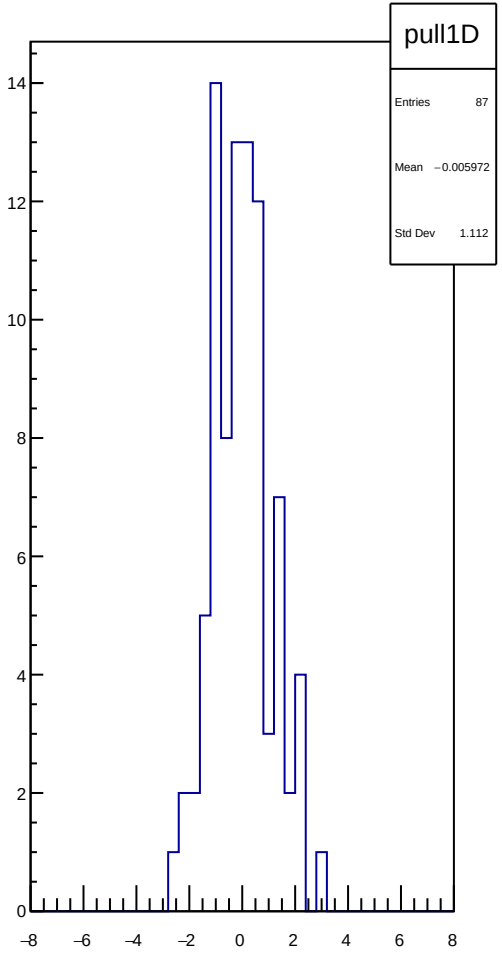

asym_sam7_eigen_cor_correction_rms vs run
χ^2 / ndf 1.996e+04 / 86
p0 277.6 ± 0.215
380
360
340
320
300
280
260
240
220

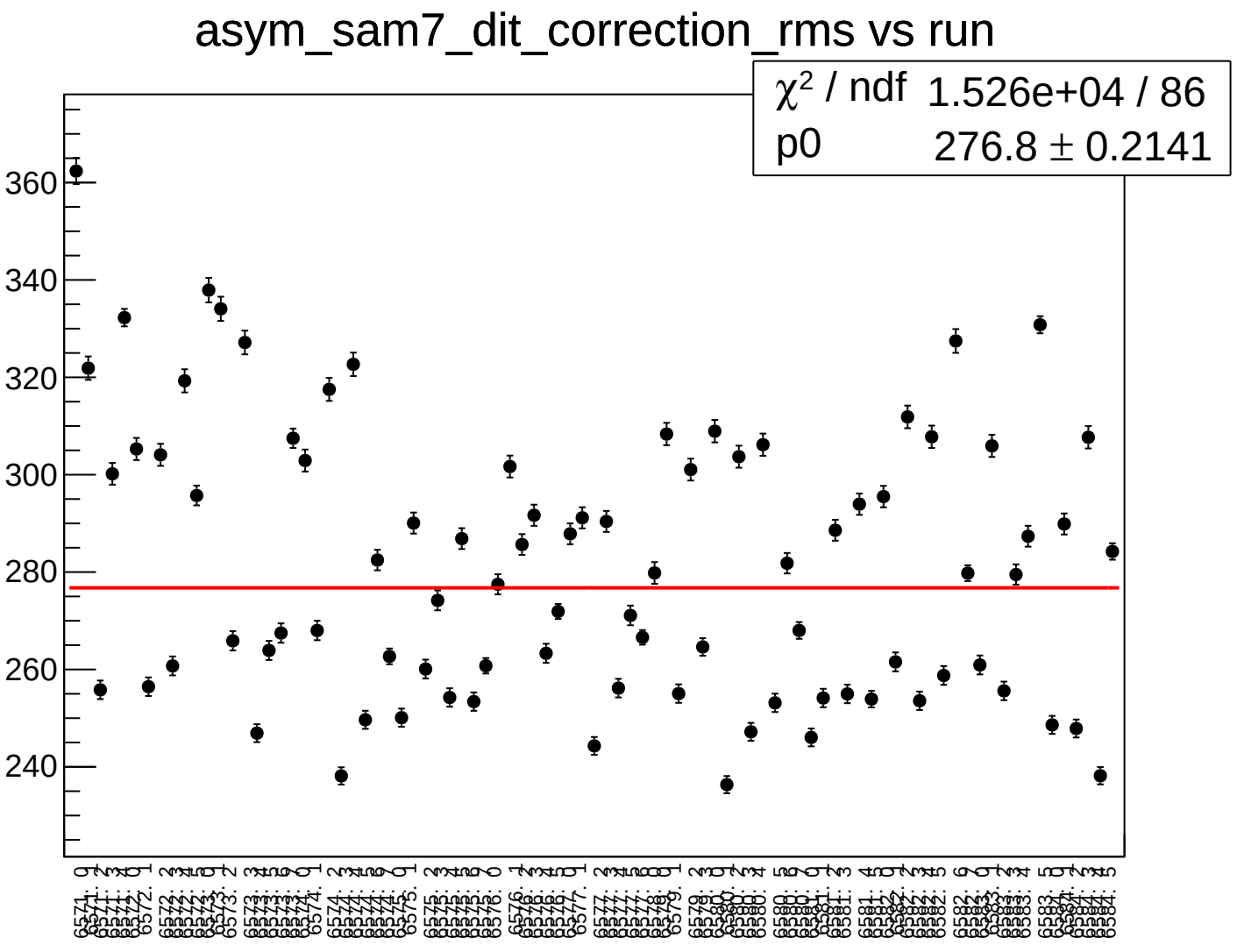

dit_asym_sam7_mean vs run
χ² / ndf 82.68 / 86
p0 150 ± 87.81
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 27.75
Std Dev 88.06
2
1
0
−1
−2
−3

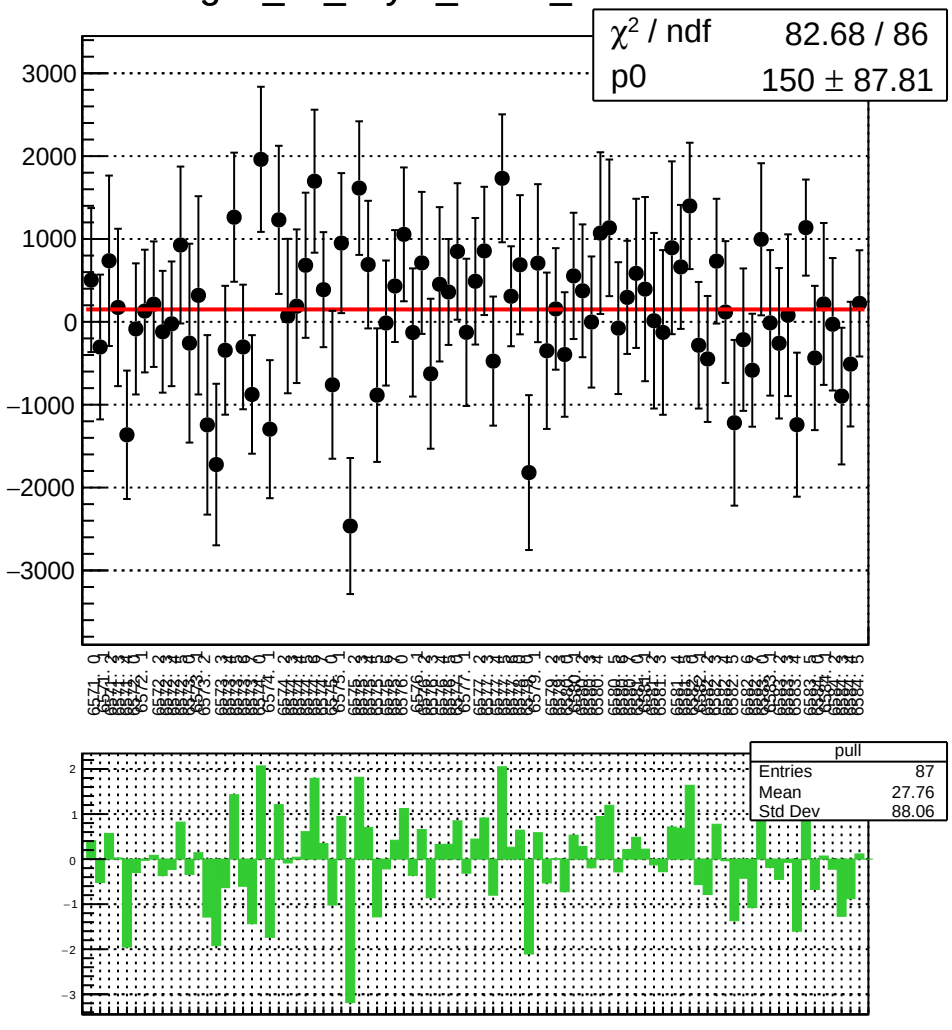

pull1D
Entries 87
Mean −0.01403
Std Dev 0.9747
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

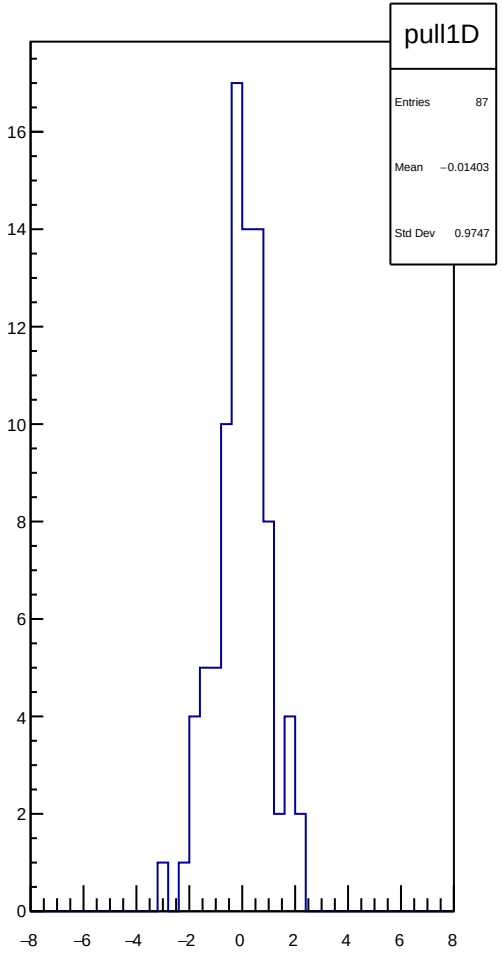

dit_asym_sam7_rms vs run
χ^2 / ndf 1.904e+04 / 86
p0 80.19 ± 0.06209
110
100
90
80
70

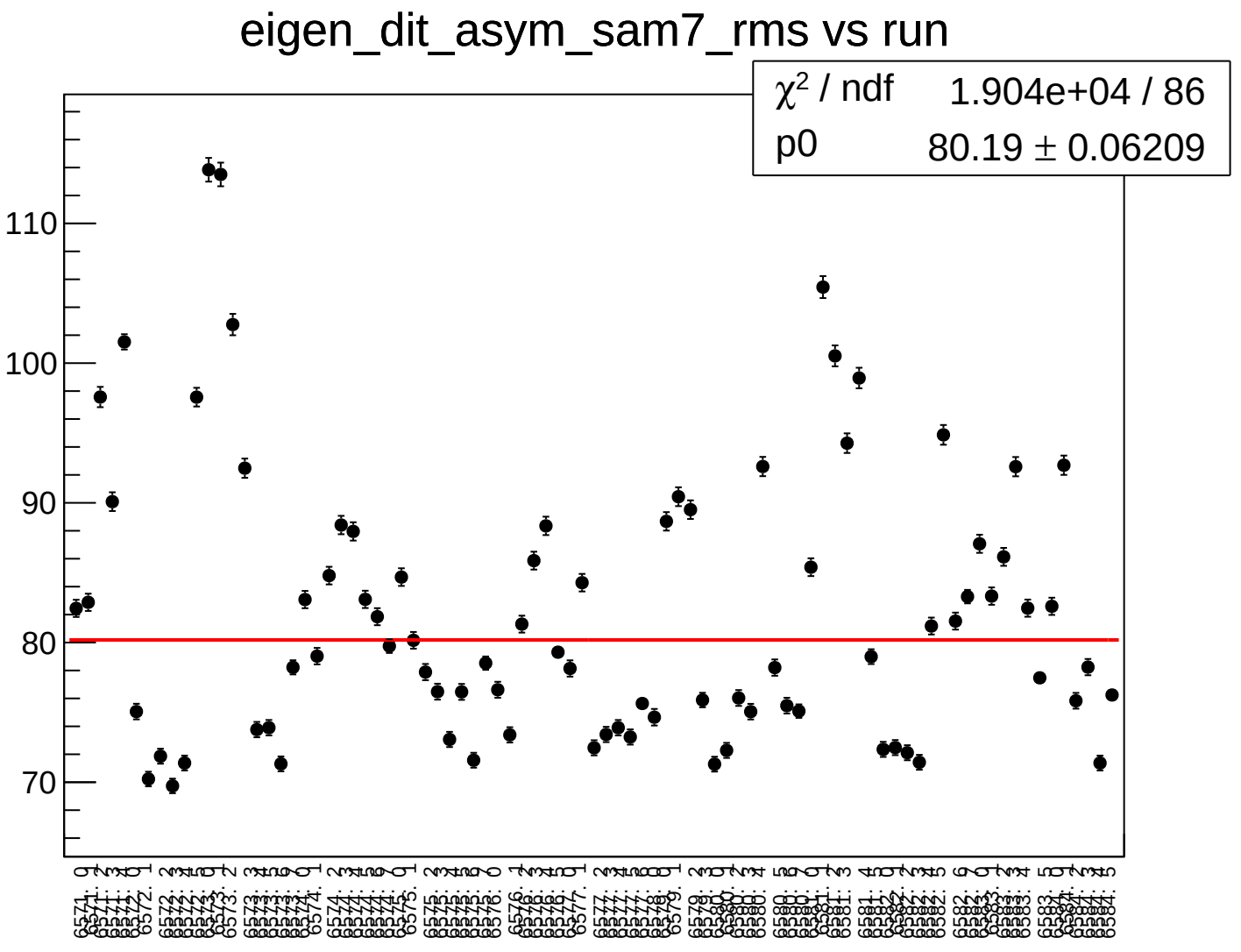

asym_sam7_dit_correction_mean vs run
χ² / ndf 107.6 / 86
p0 −630.6 ± 302.7
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 457.2
Std Dev 0
3
2
1
0
−1
−2

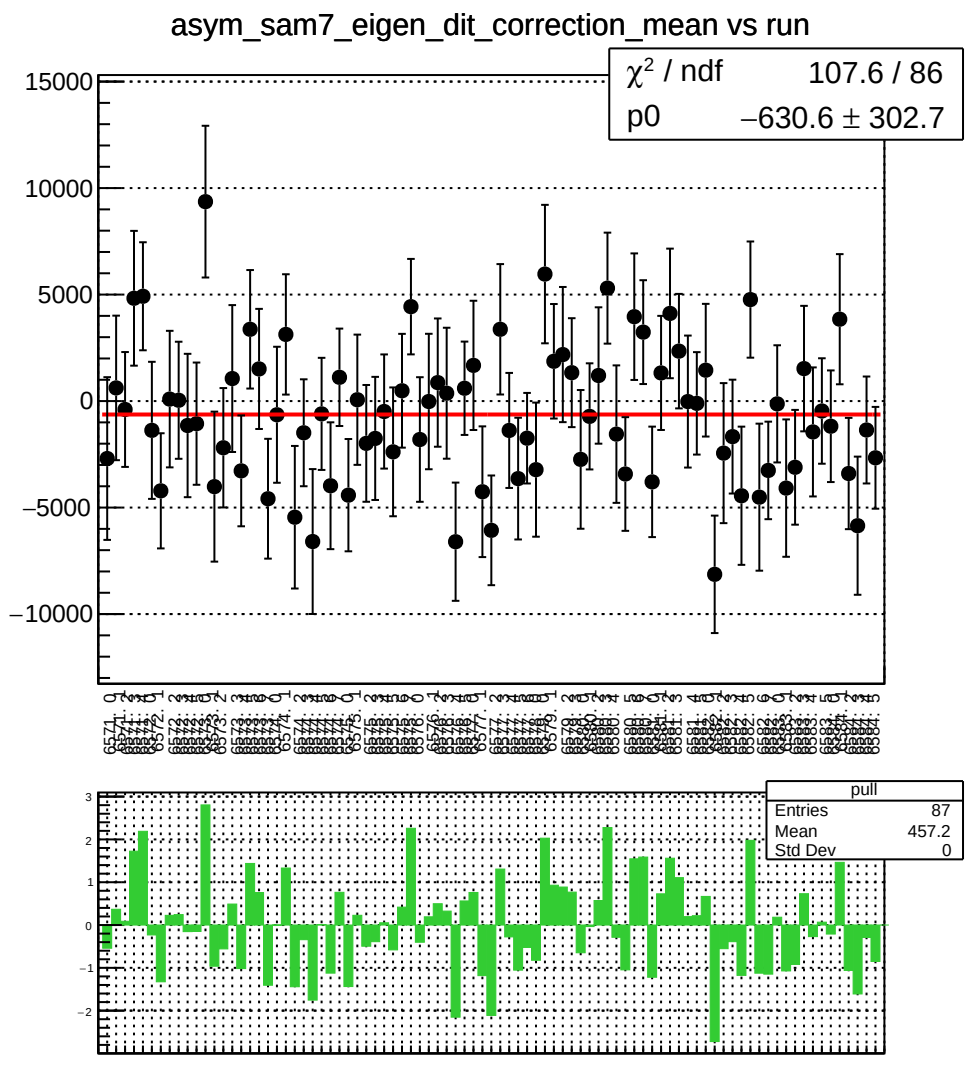

pull1D
Entries 87
Mean −0.005972
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

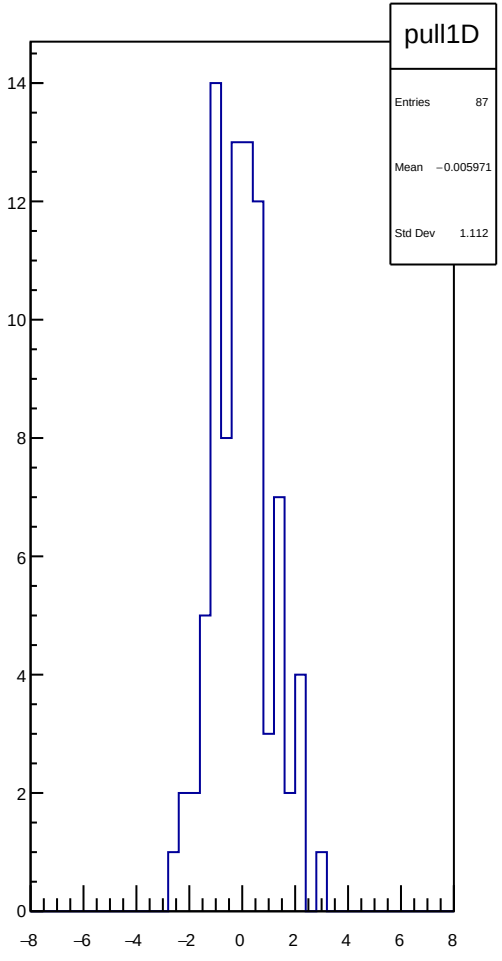

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.526e+04 / 86
p0 276.8 ± 0.2141
360
340
320
300
280
260
240

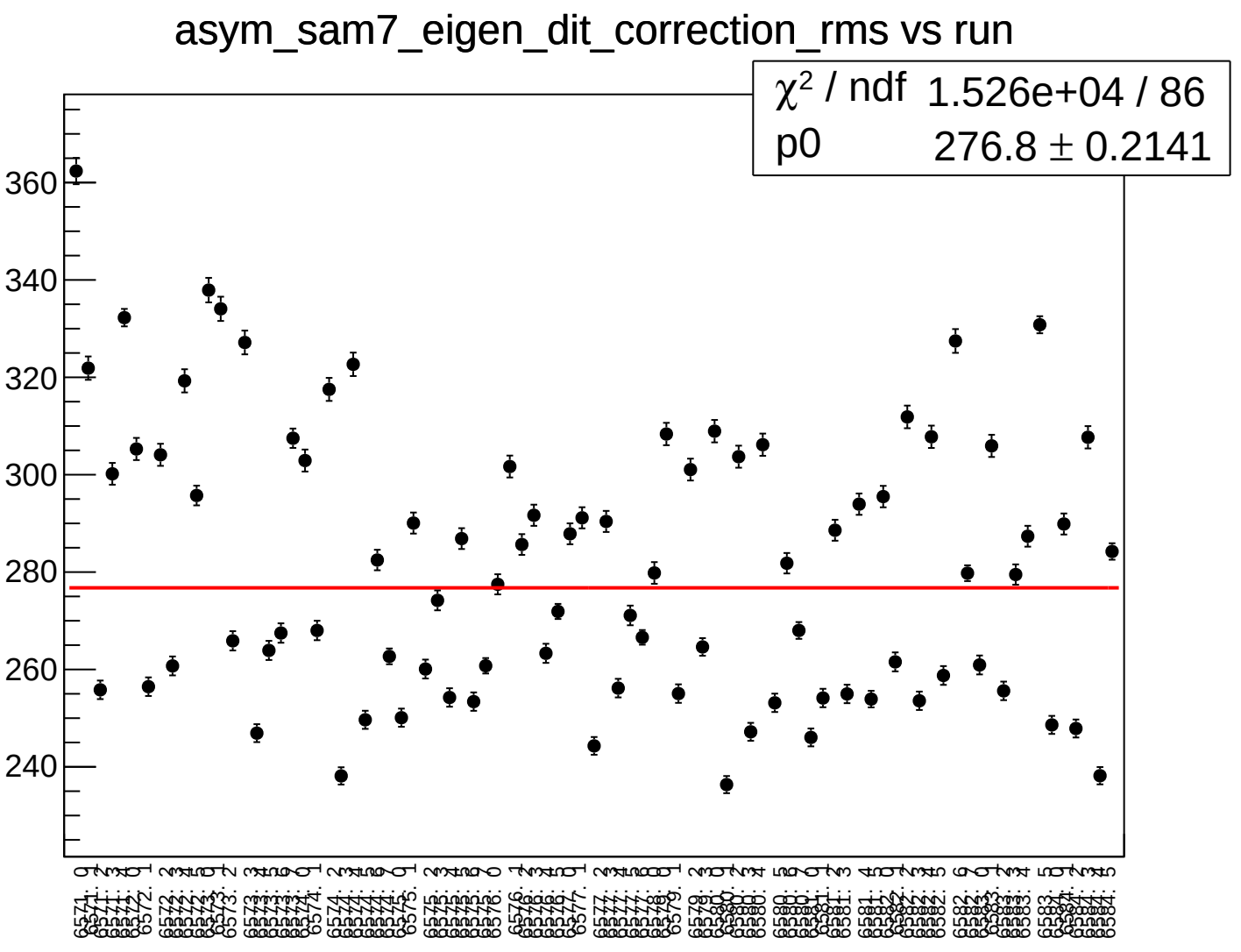

eigen_dit_asym_sam7_mean vs run
χ² / ndf 82.68 / 86
p0 150 ± 87.81
pull
Entries 87
Mean 27.76
Std Dev 88.06

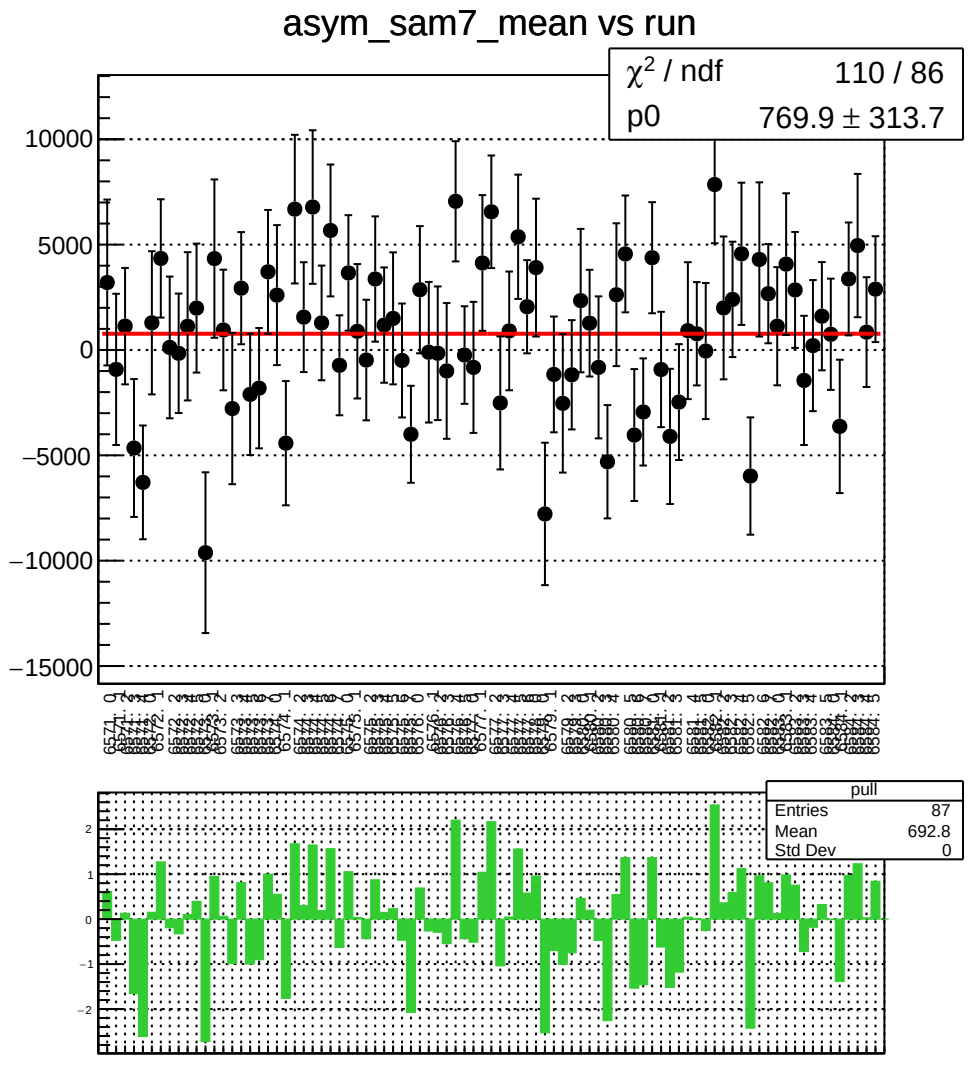

pull1D
Entries 87
Mean −0.01403
Std Dev 0.9747

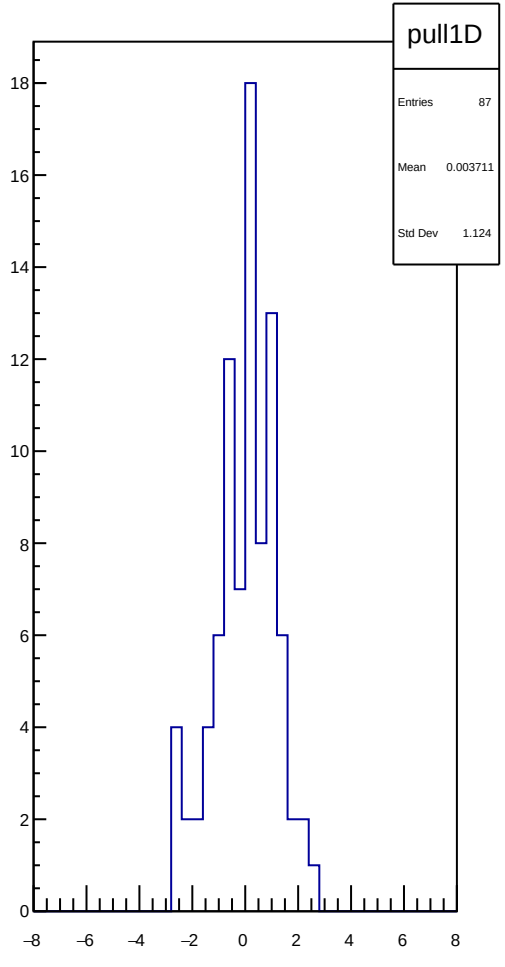

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 1.904e+04 / 86
p0 80.19 ± 0.06209
110
100
90
80
70

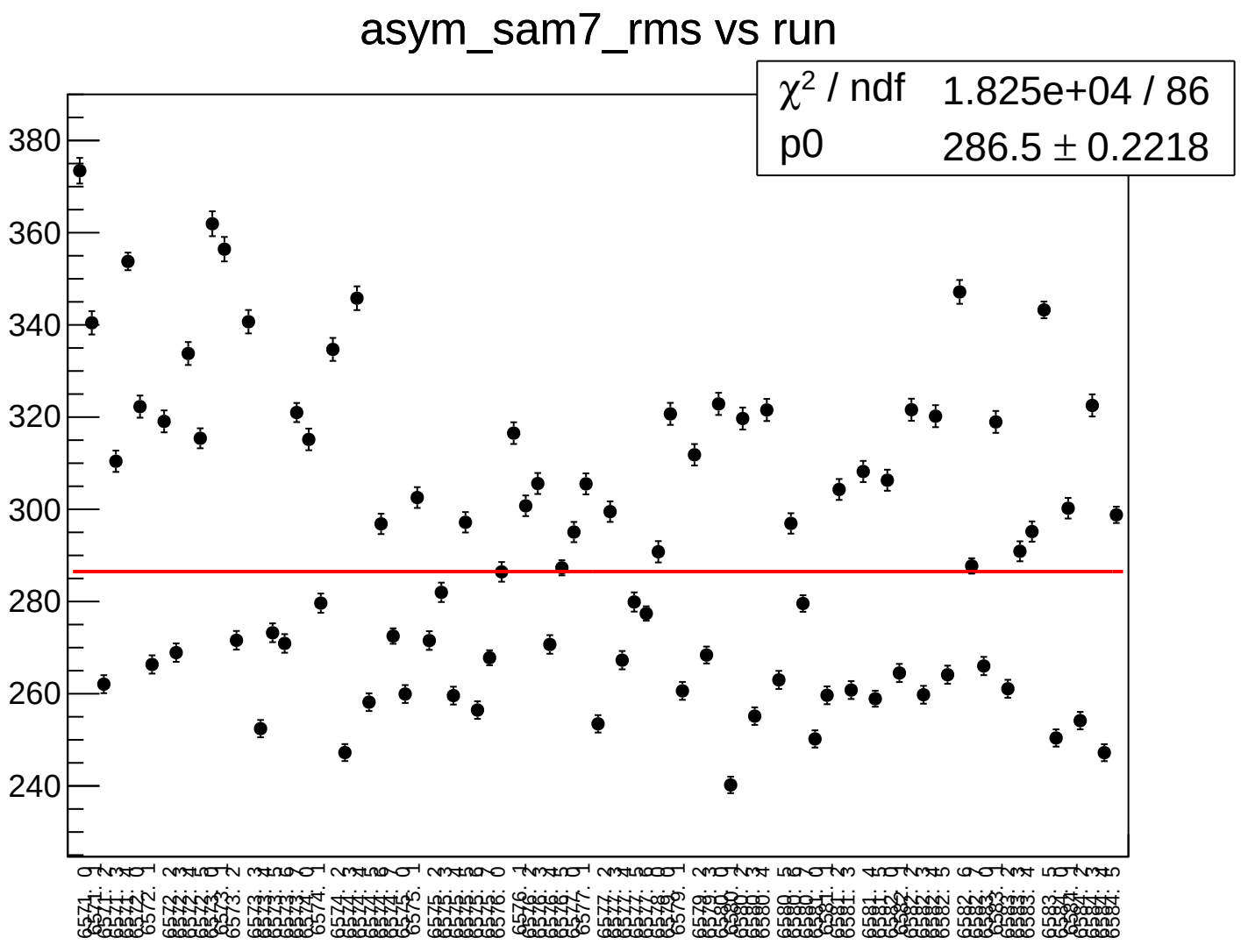

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 107.6 / 86
p0 −630.6 ± 302.7
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 457.2
Std Dev 0
3
2
1
0
−1
−2

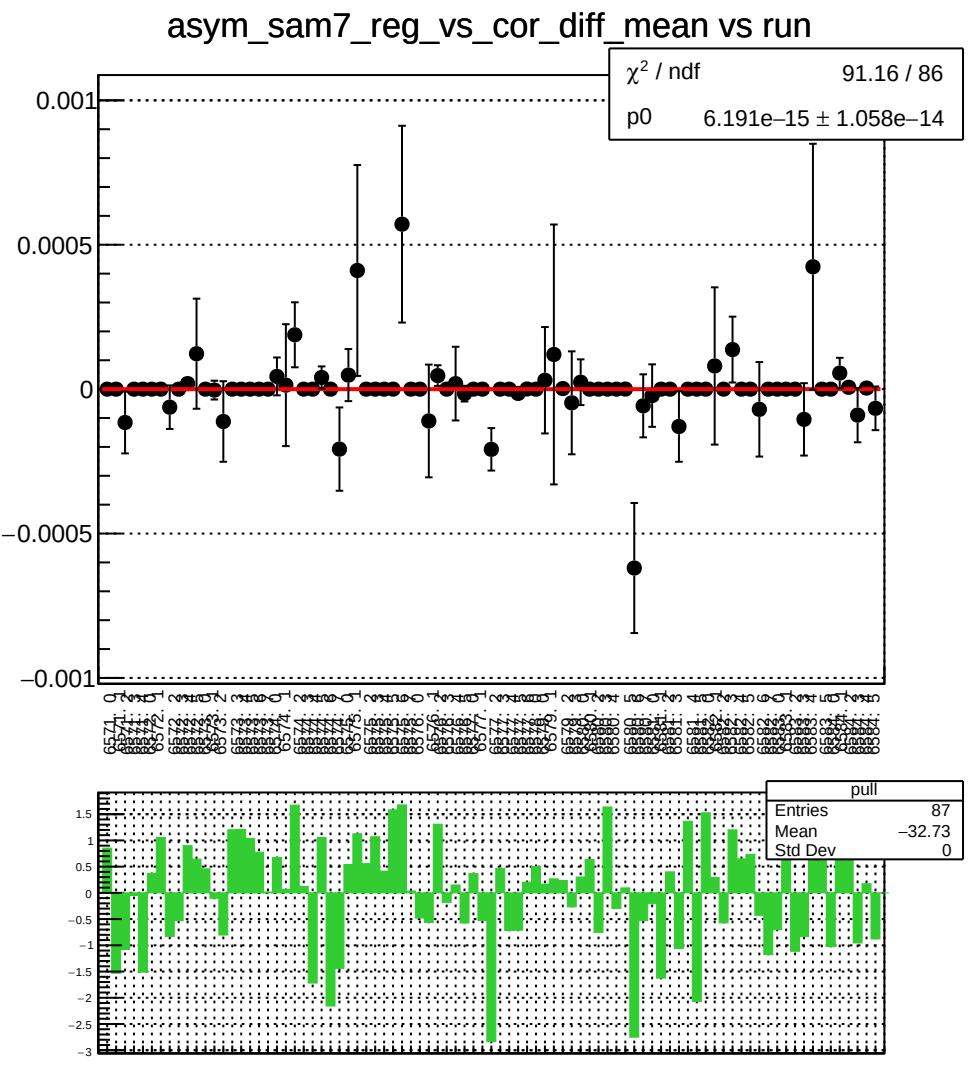

pull1D
Entries 87
Mean −0.005971
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

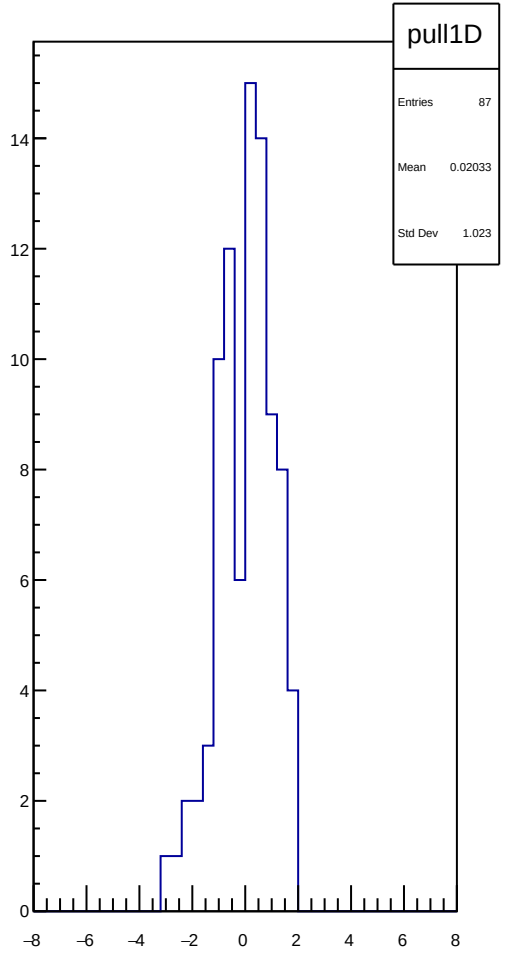

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.526e+04 / 86
p0 276.8 ± 0.2141
360
340
320
300
280
260
240

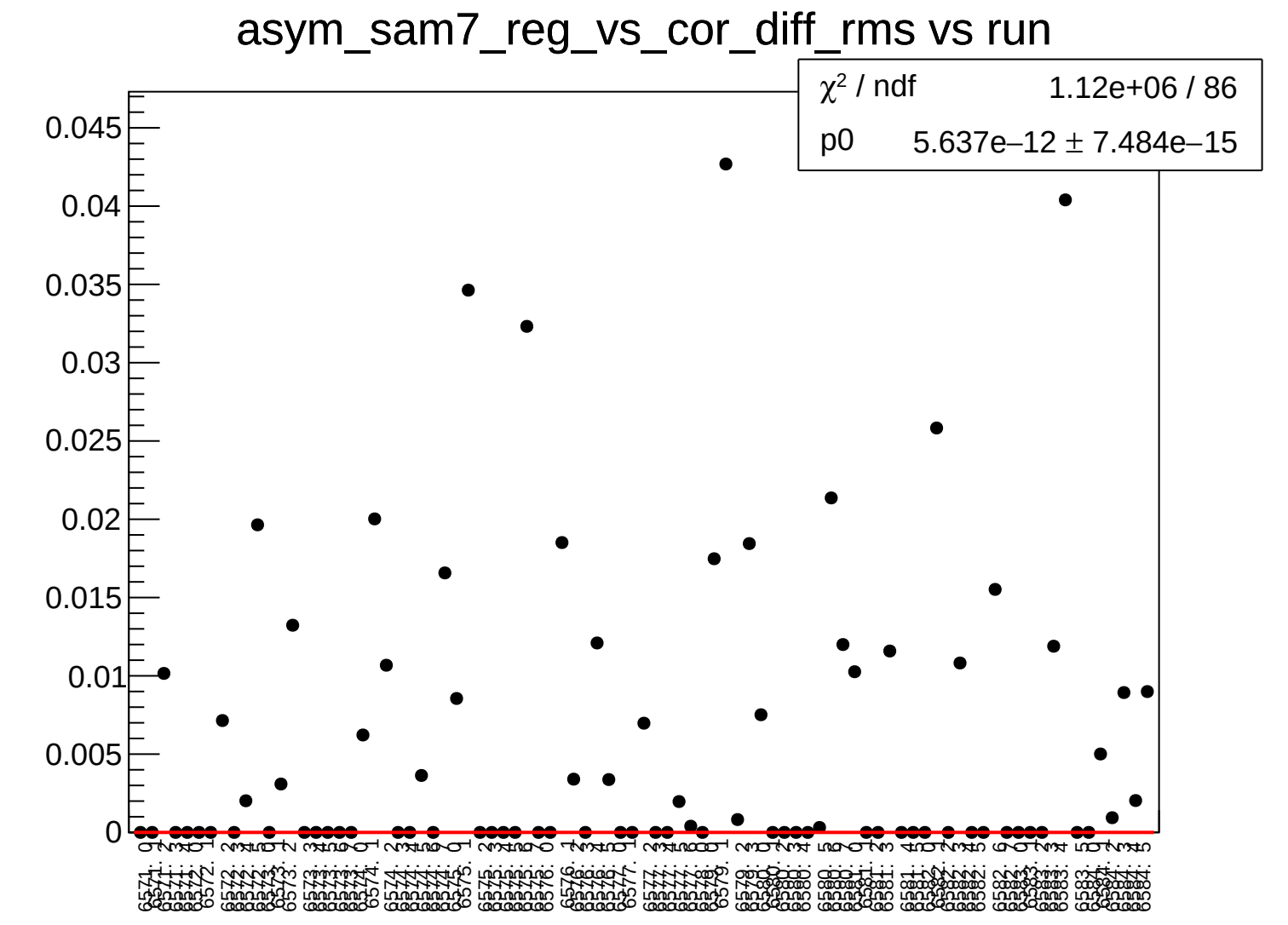

asym_sam7_mean vs run
χ² / ndf 110 / 86
p0 769.9 ± 313.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 692.8
Std Dev 0
2
1
0
−1
−2

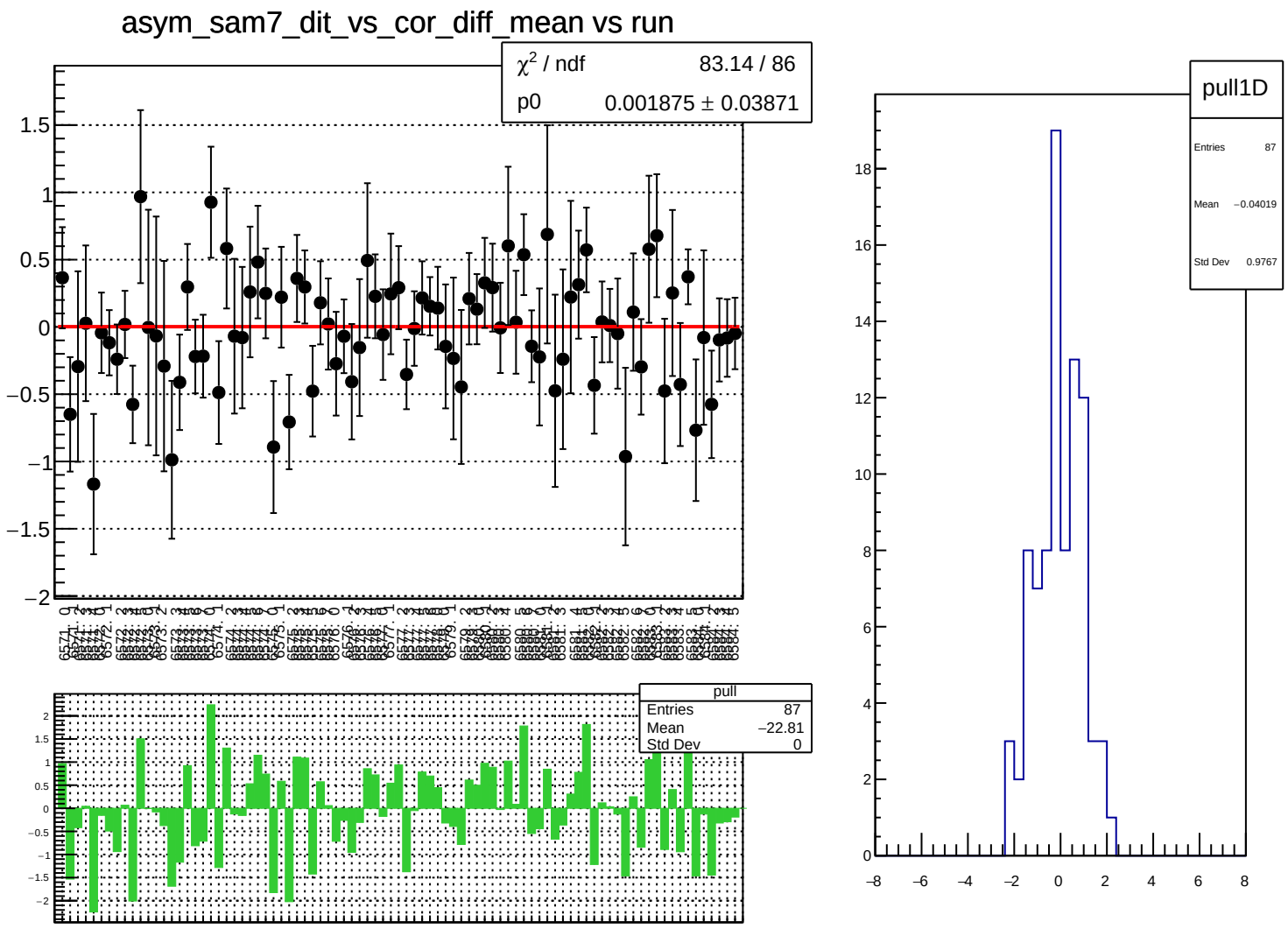

pull1D
Entries 87
Mean 0.003711
Std Dev 1.124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

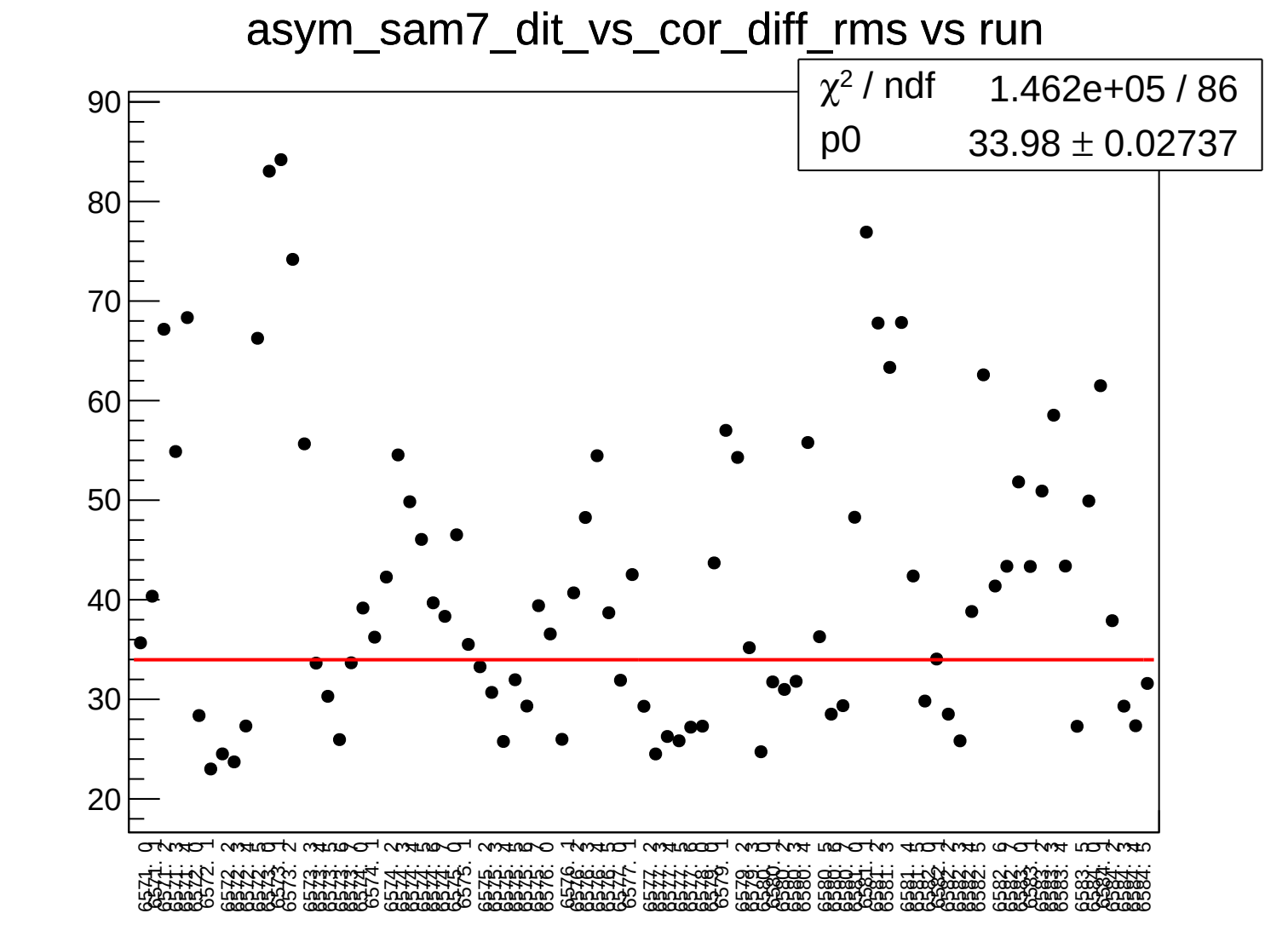

asym_sam7_rms vs run
χ² / ndf 1.825e+04 / 86
p0 286.5 ± 0.2218
380
360
340
320
300
280
260
240

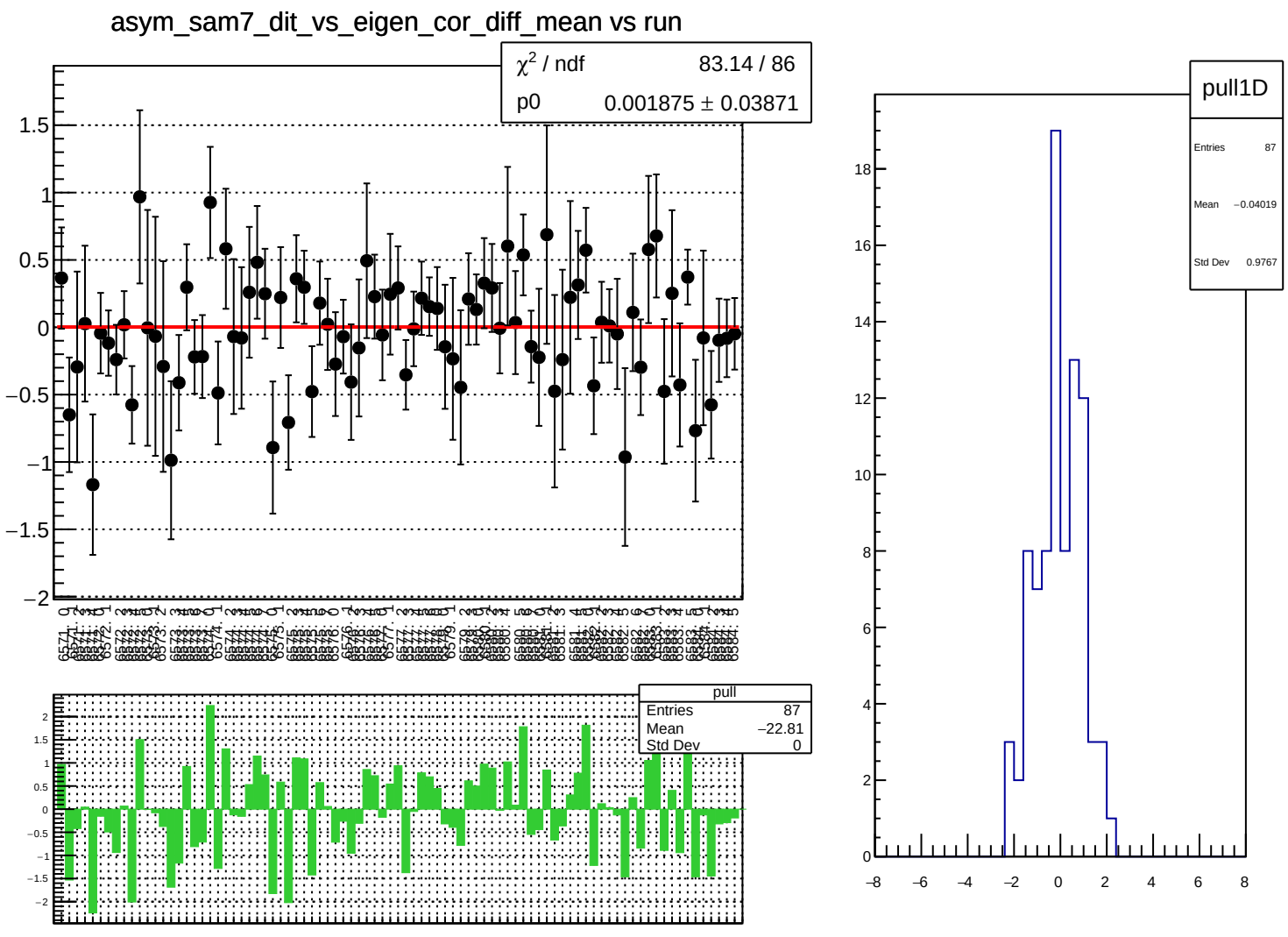

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 91.16 / 86
p0 6.191e−15 ± 1.058e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean −32.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

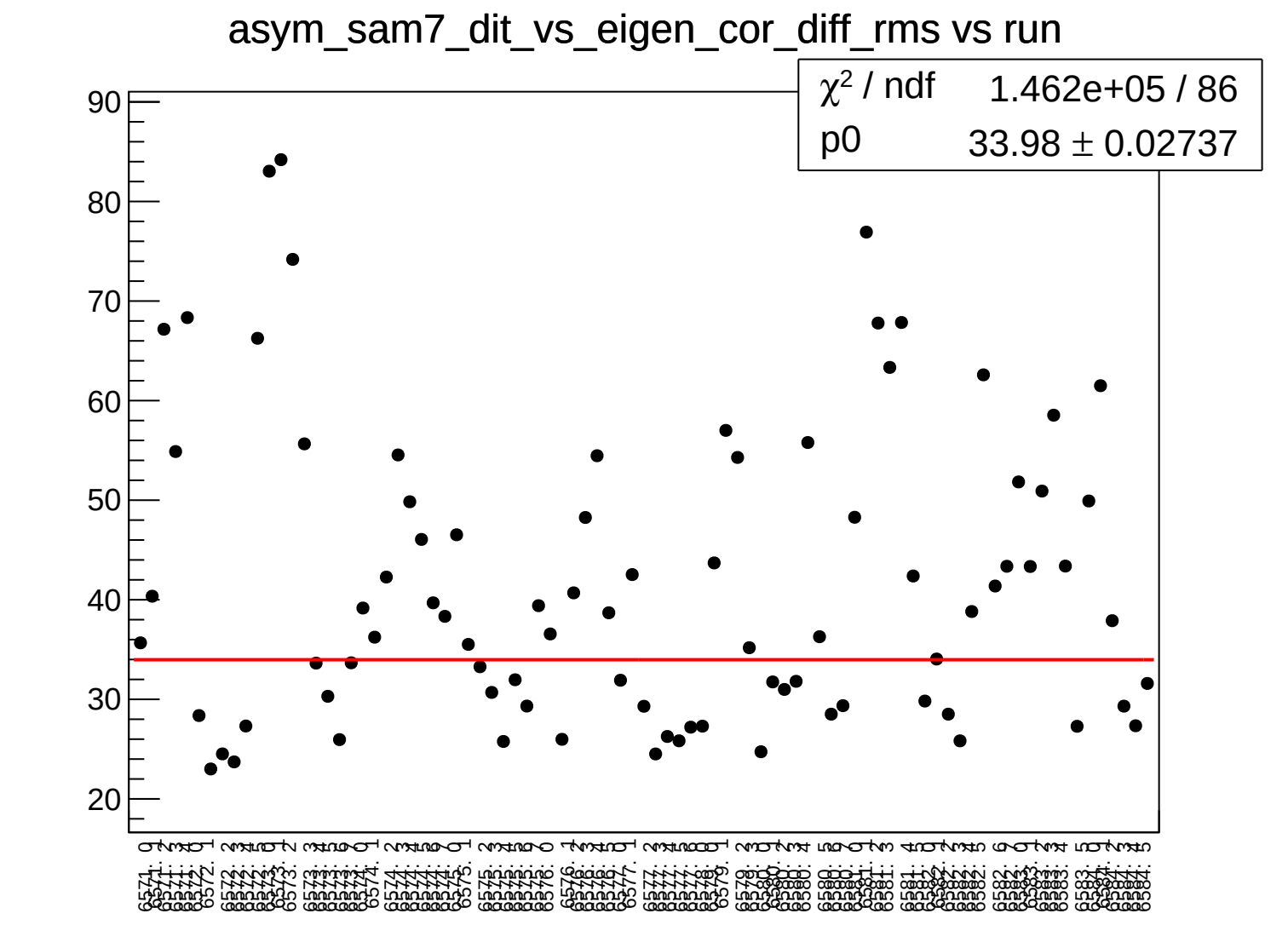

pull1D
Entries 87
Mean 0.02033
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

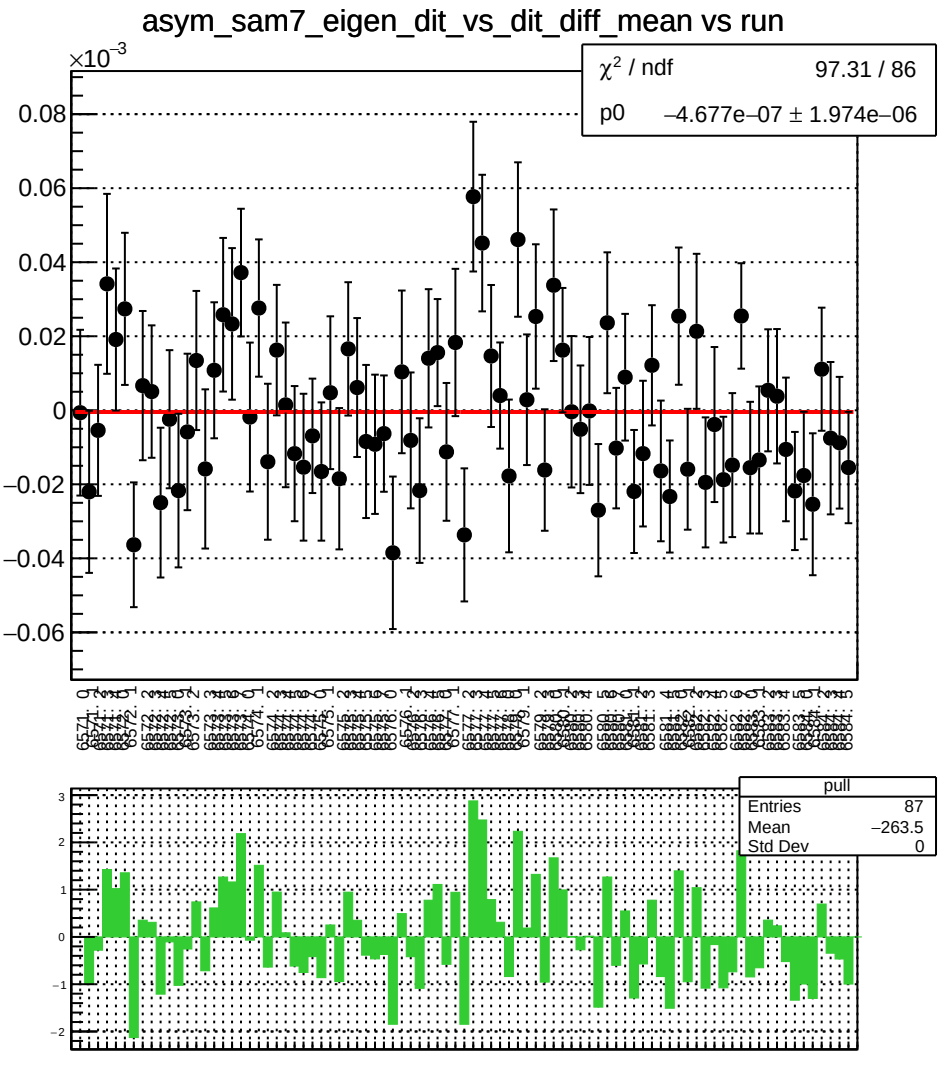

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.12e+06 / 86
p0 5.637e−12 ± 7.484e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

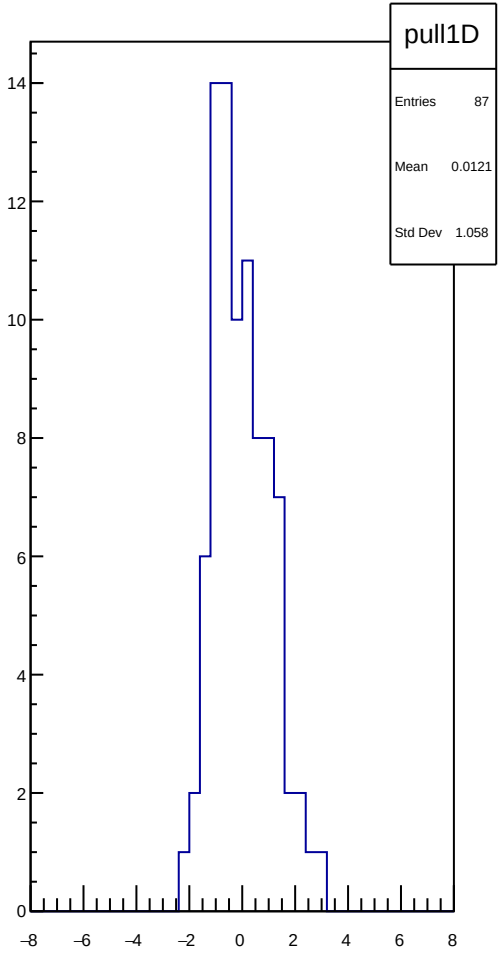

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 83.14 / 86
p0 0.001875 ± 0.03871
pull
Entries 87
Mean −22.81
Std Dev 0
pull1D
Entries 87
Mean −0.04019
Std Dev 0.9767

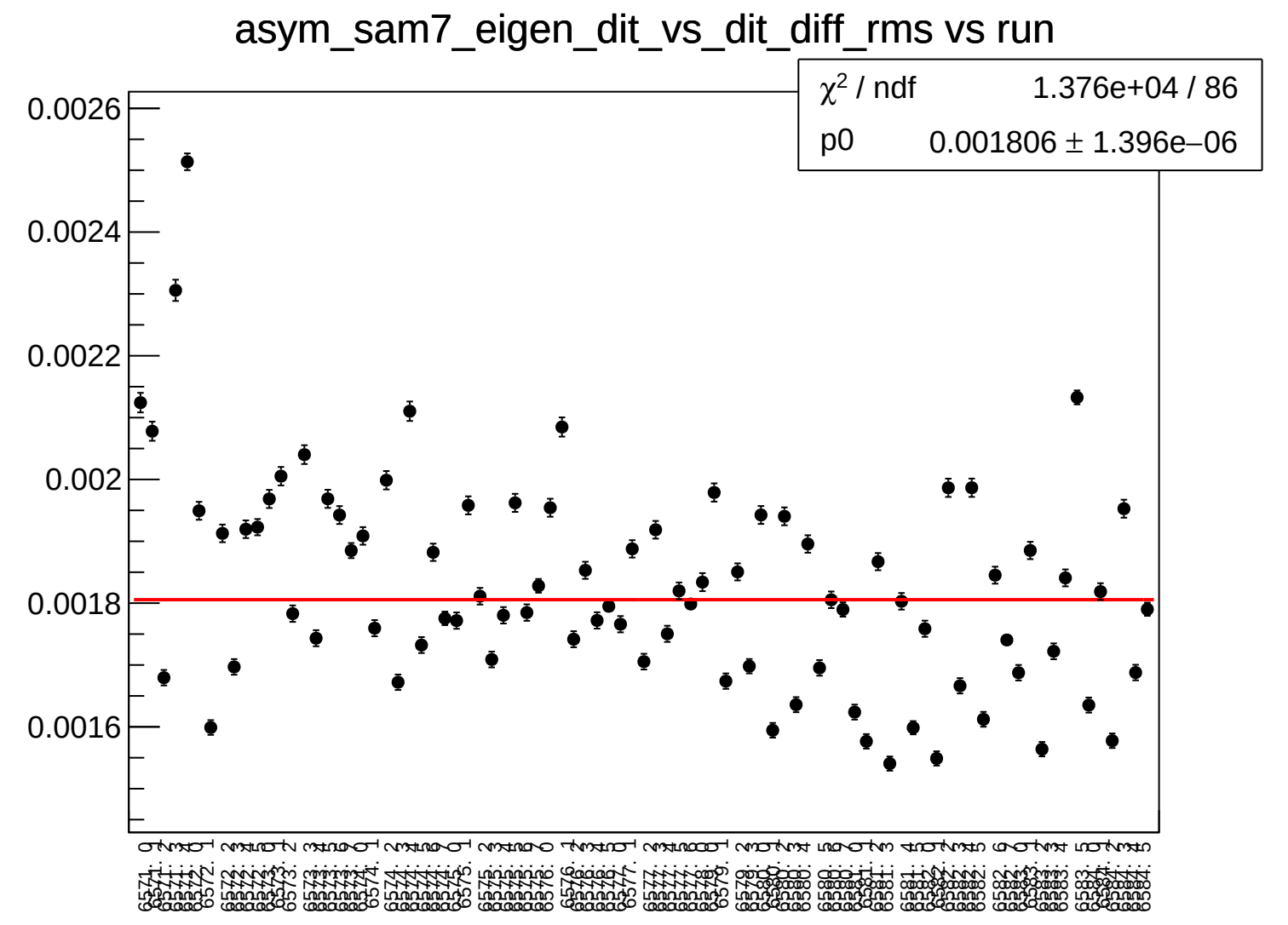

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.462e+05 / 86
p0 33.98 ± 0.02737
90
80
70
60
50
40
30
20

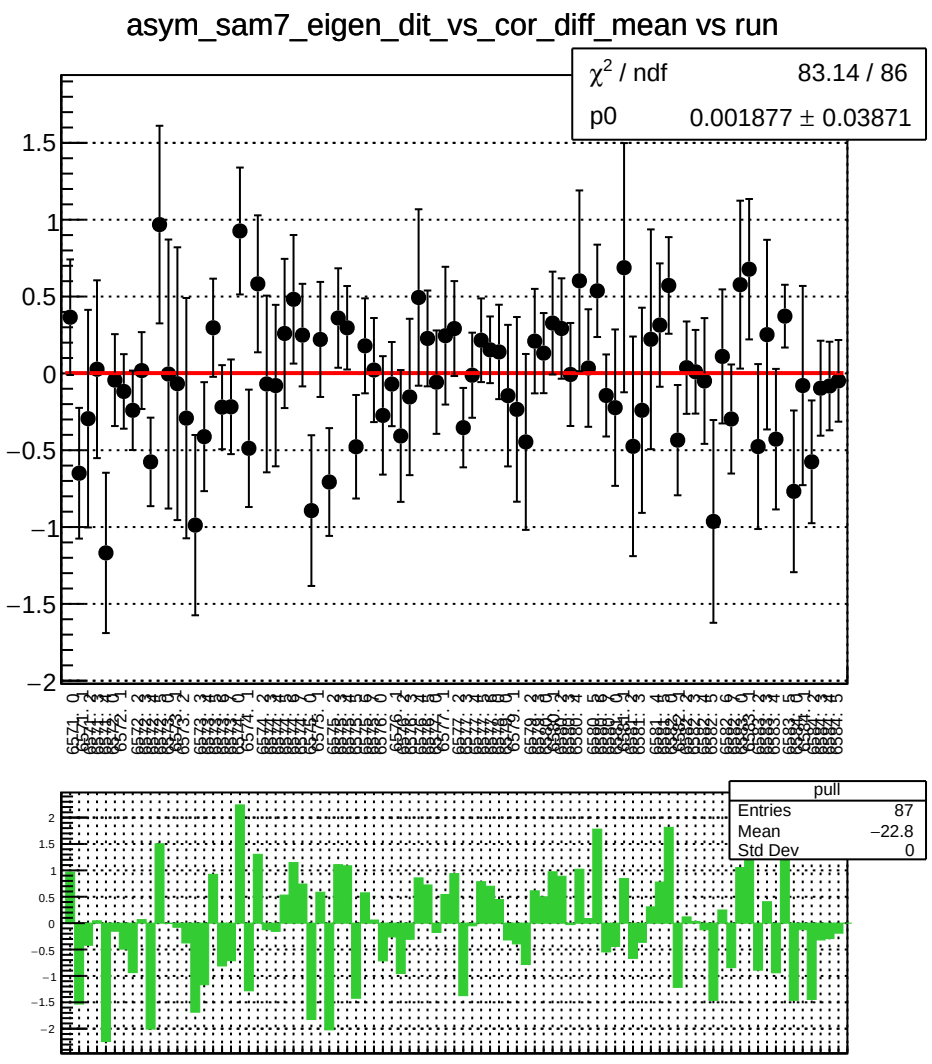

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.14 / 86
p0 0.001875 ± 0.03871
pull
Entries 87
Mean −22.81
Std Dev 0
pull1D
Entries 87
Mean −0.04019
Std Dev 0.9767

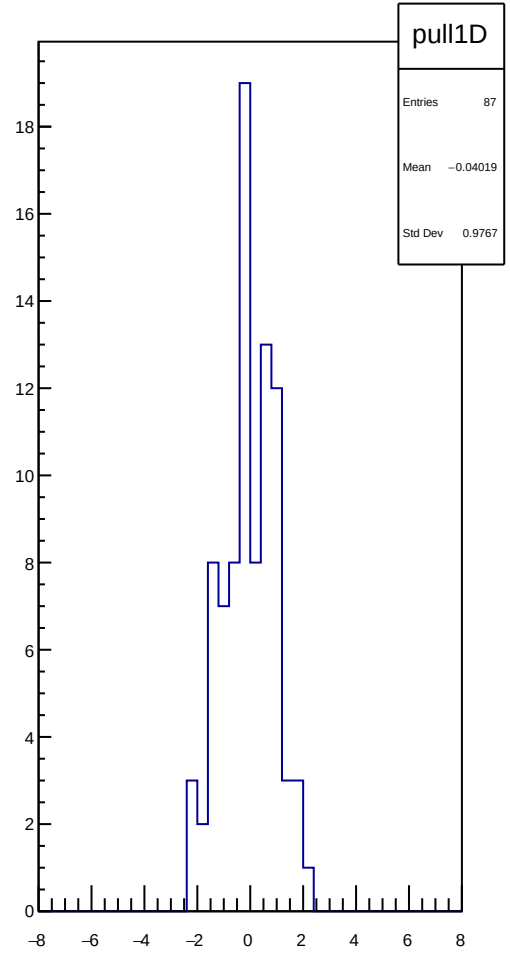

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.462e+05 / 86
p0 33.98 ± 0.02737
90
80
70
60
50
40
30
20

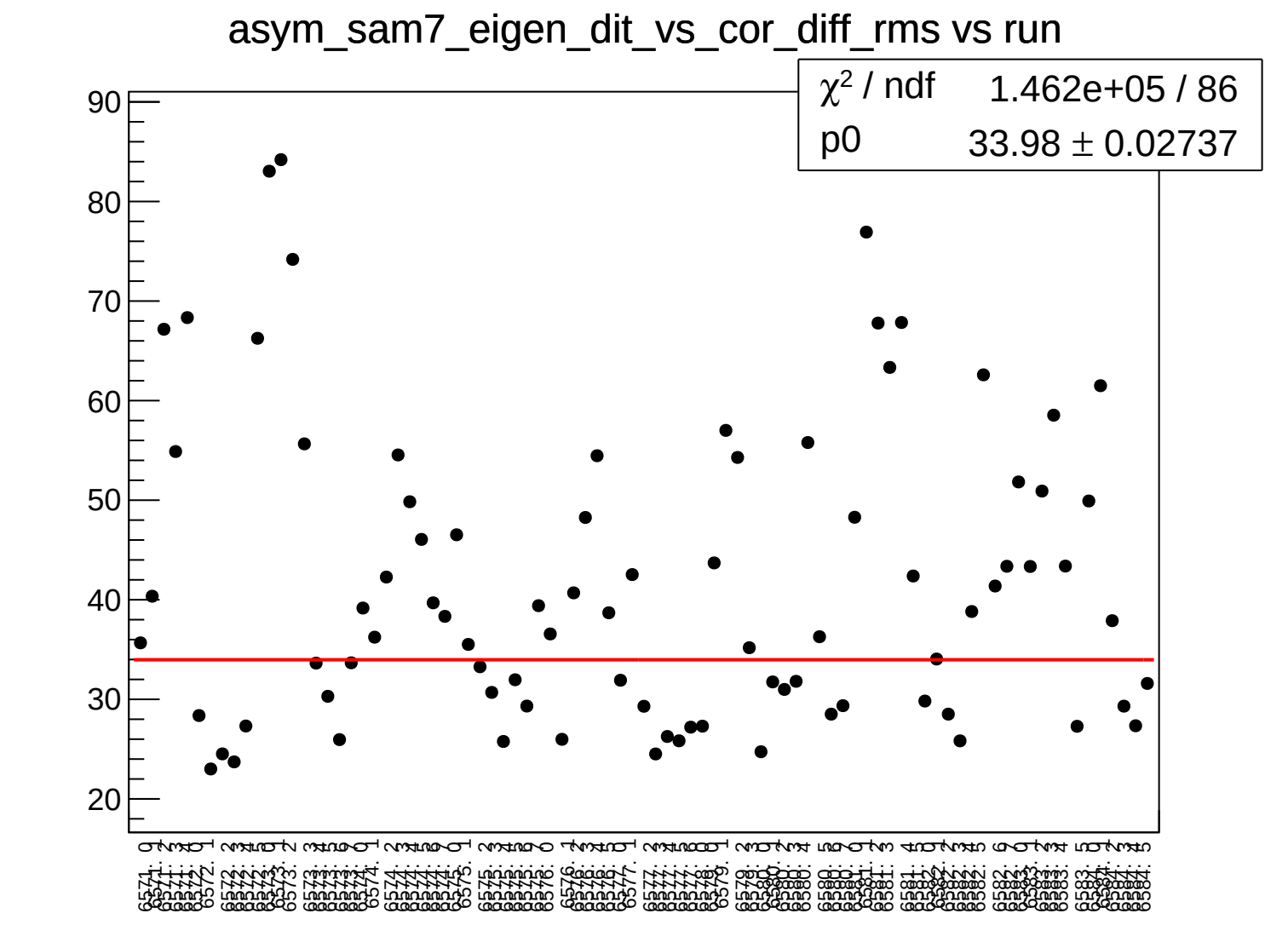

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.31 / 86
p0 −4.677e−07 ± 1.974e−06
pull
Entries 87
Mean −263.5
Std Dev 0

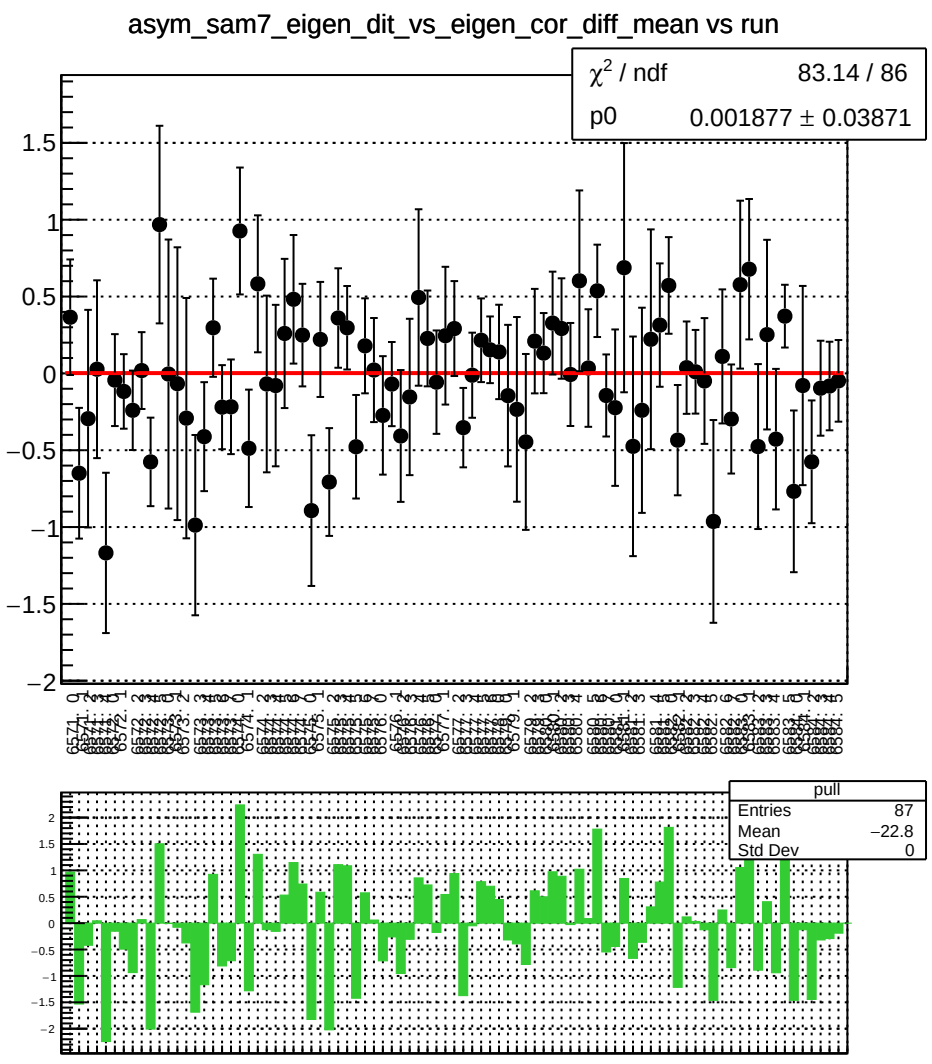

pull1D
Entries 87
Mean 0.0121
Std Dev 1.058

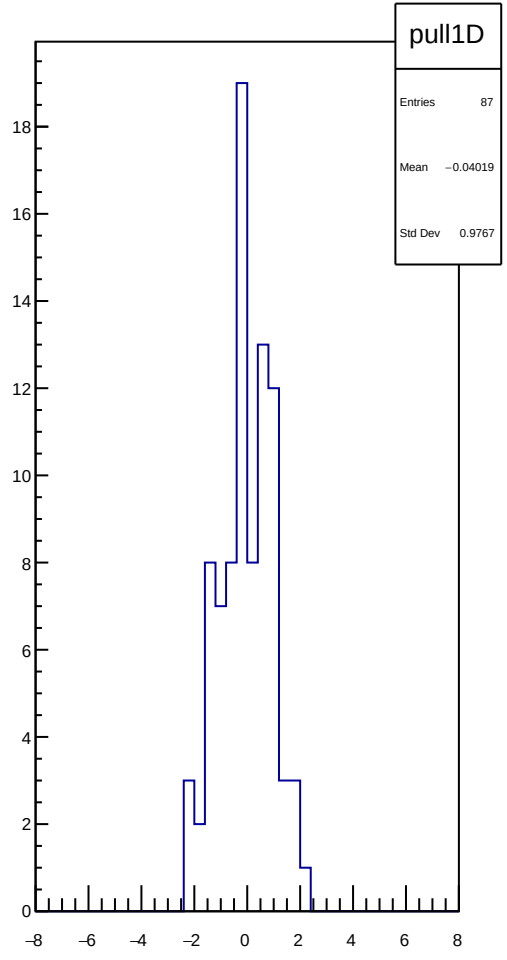

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.376e+04 / 86
p0 0.001806 ± 1.396e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

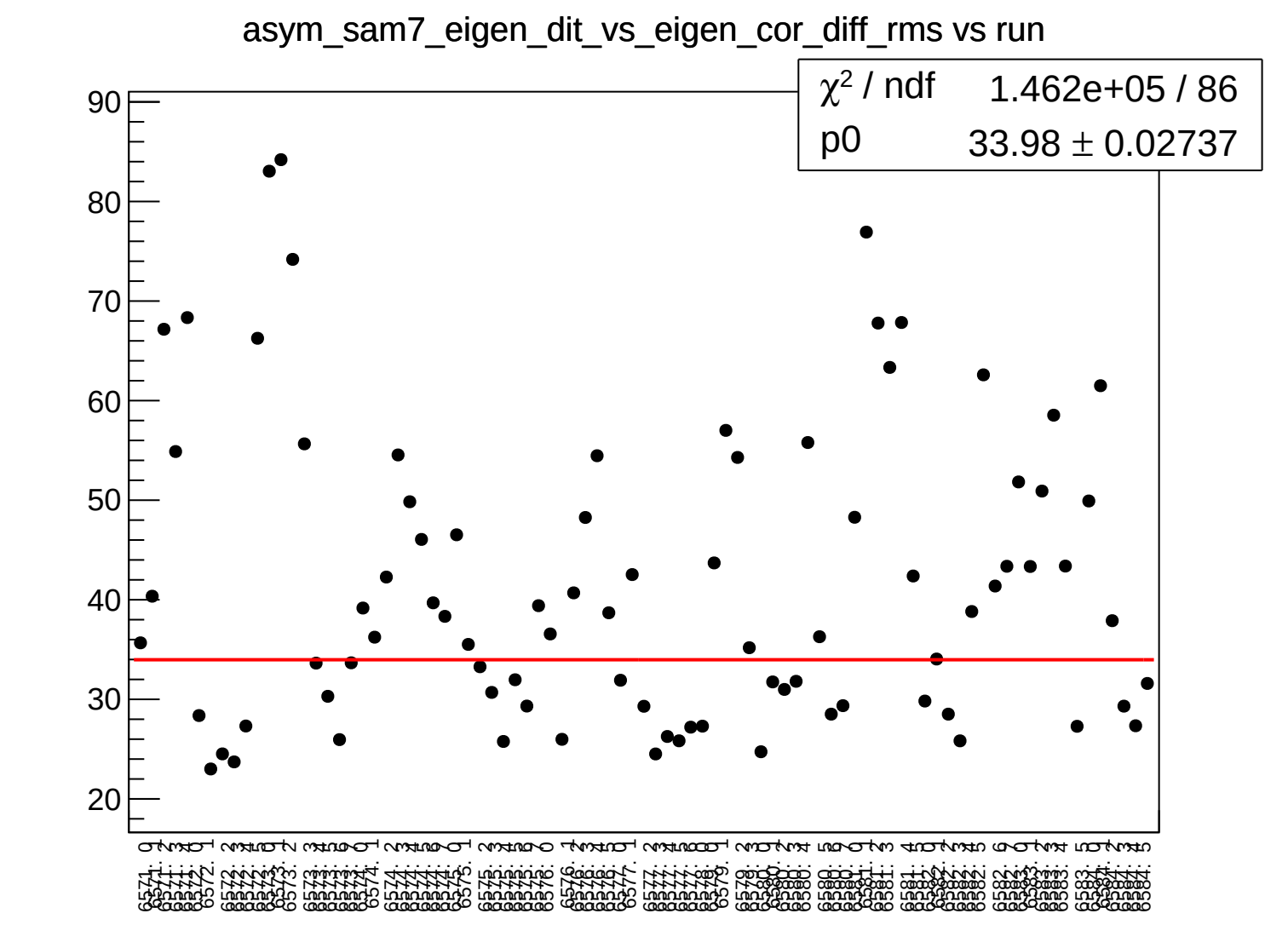

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.14 / 86
p0 0.001877 ± 0.03871
pull
Entries 87
Mean −22.8
Std Dev 0

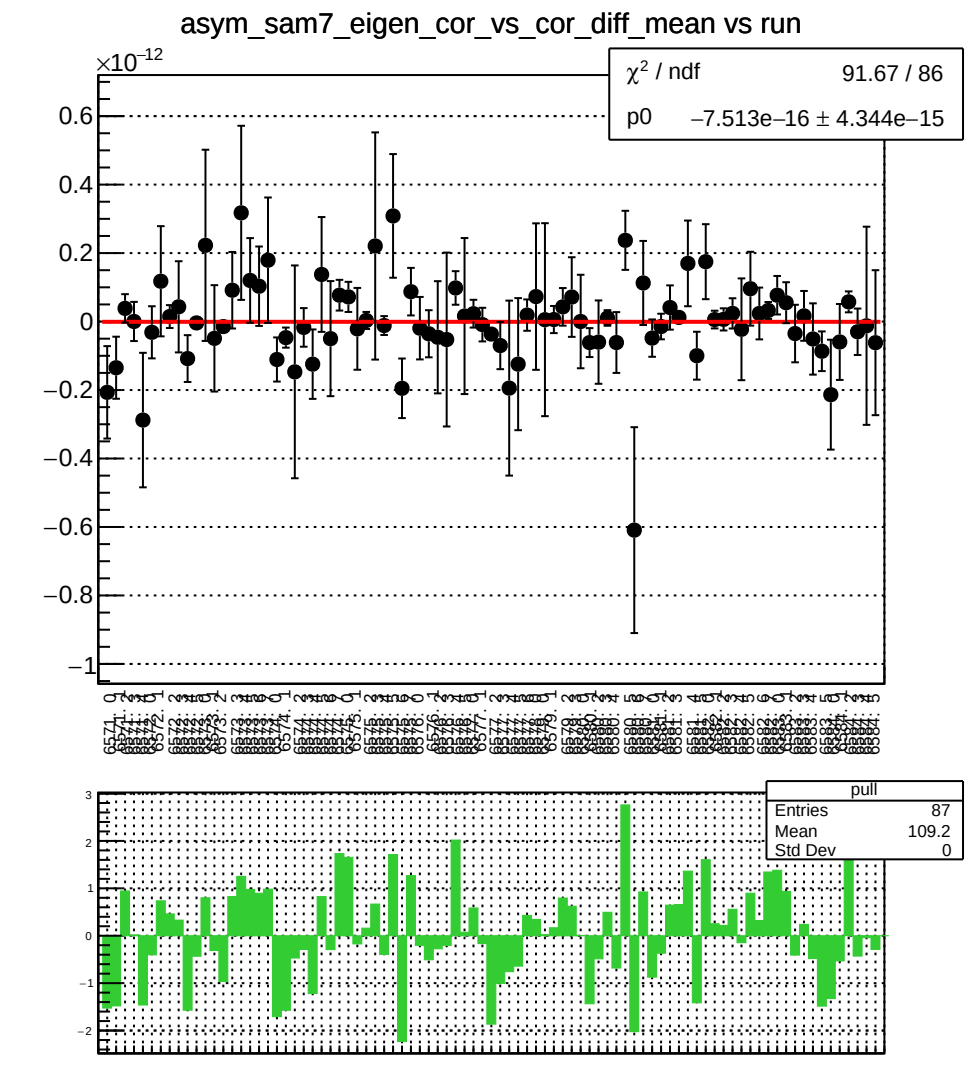

pull1D
Entries 87
Mean −0.04019
Std Dev 0.9767

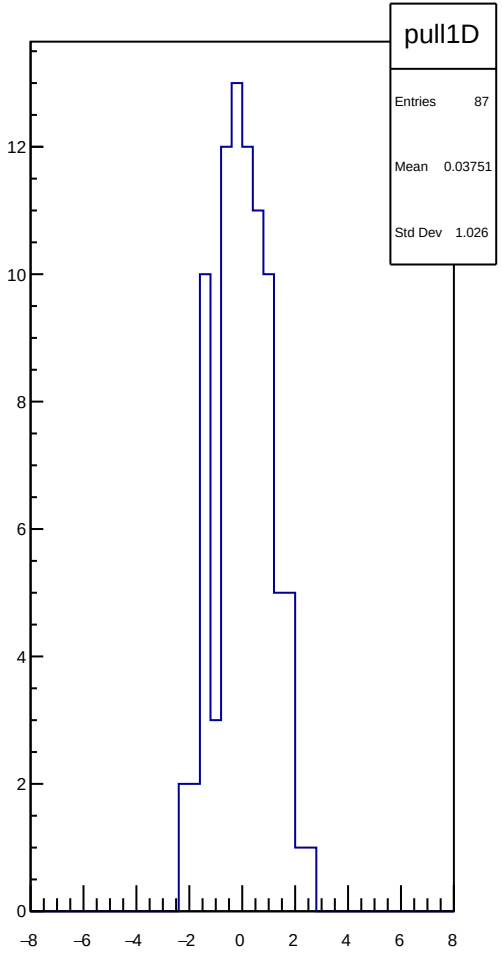

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.462e+05 / 86
p0 33.98 ± 0.02737
90
80
70
60
50
40
30
20

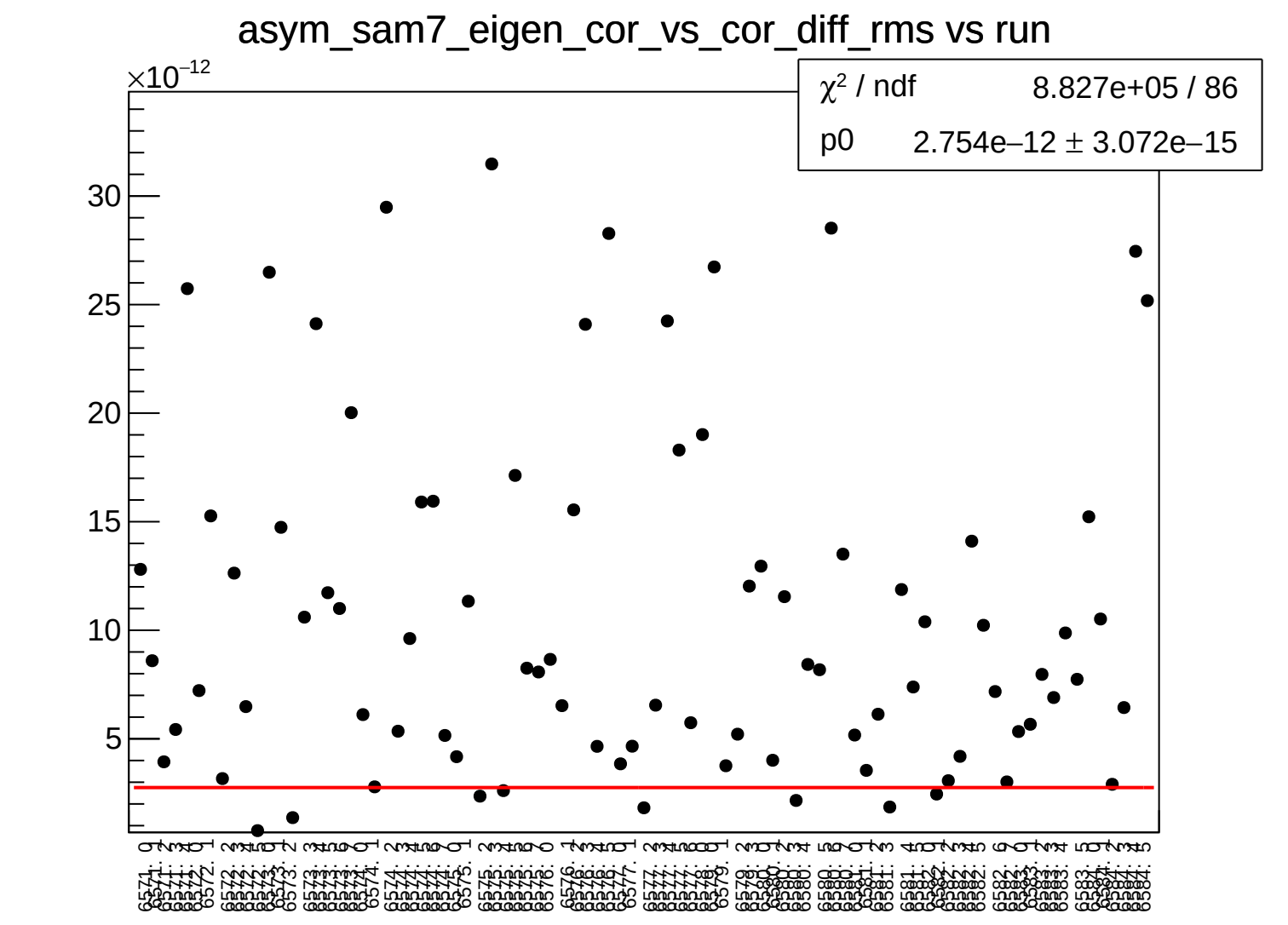

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.14 / 86
p0 0.001877 ± 0.03871
pull
Entries 87
Mean −22.8
Std Dev 0

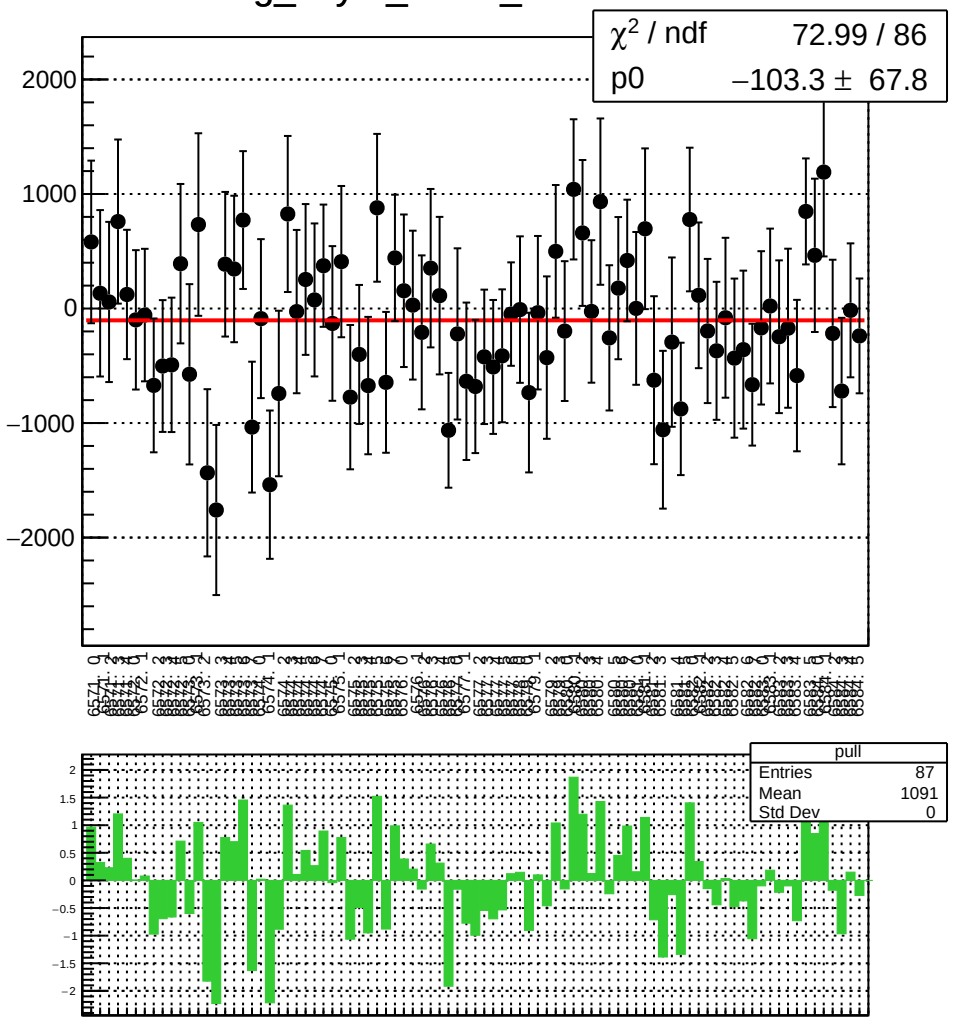

pull1D
Entries 87
Mean −0.04019
Std Dev 0.9767

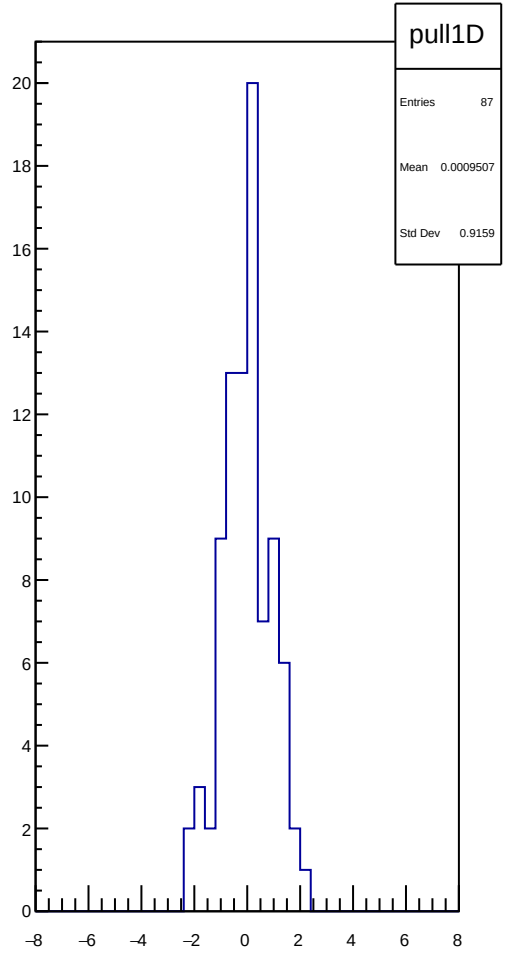

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.462e+05 / 86
p0 33.98 ± 0.02737
90
80
70
60
50
40
30
20

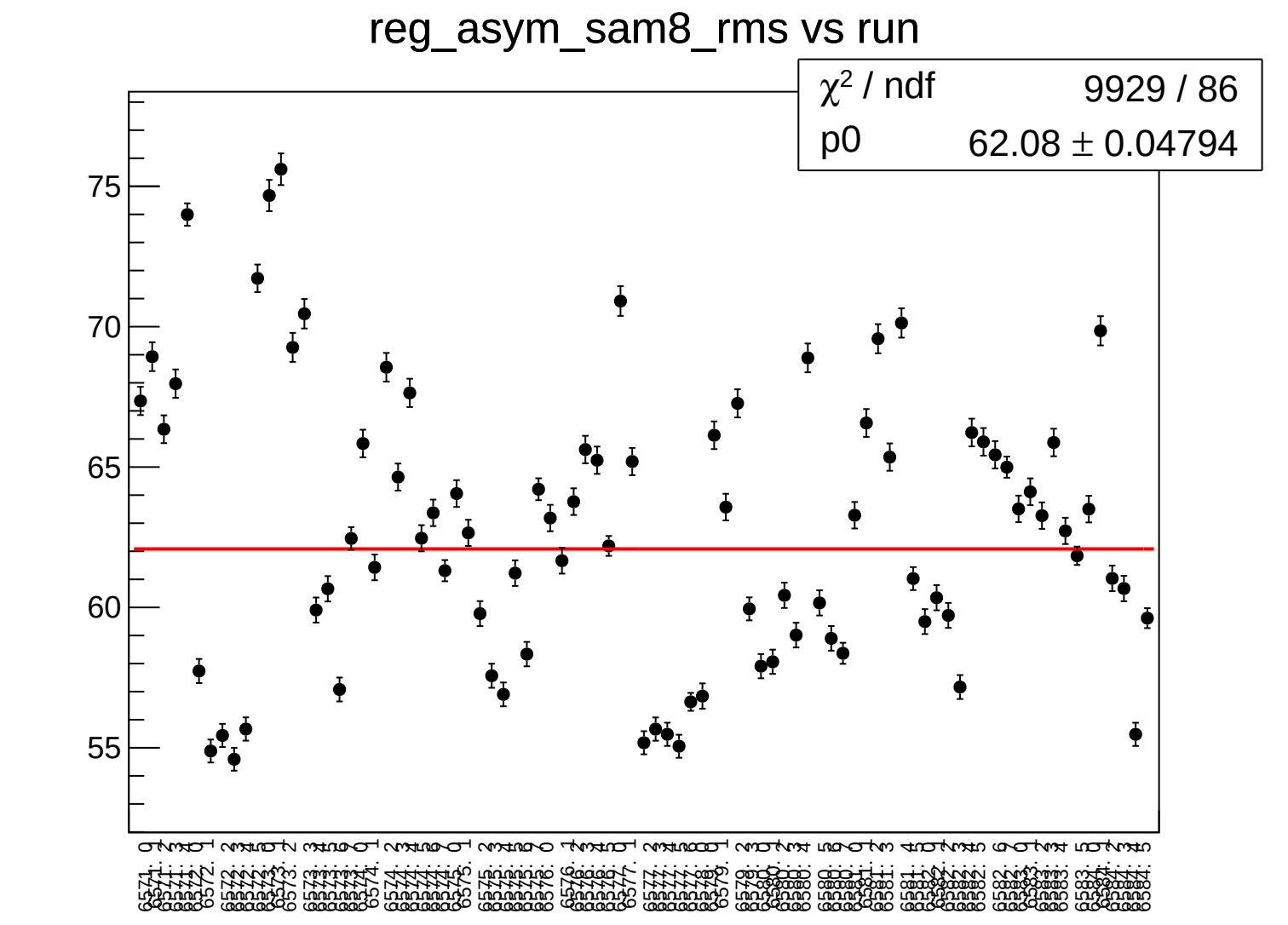

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.67 / 86
p0 −7.513e−16 ± 4.344e−15
pull
Entries 87
Mean 109.2
Std Dev 0

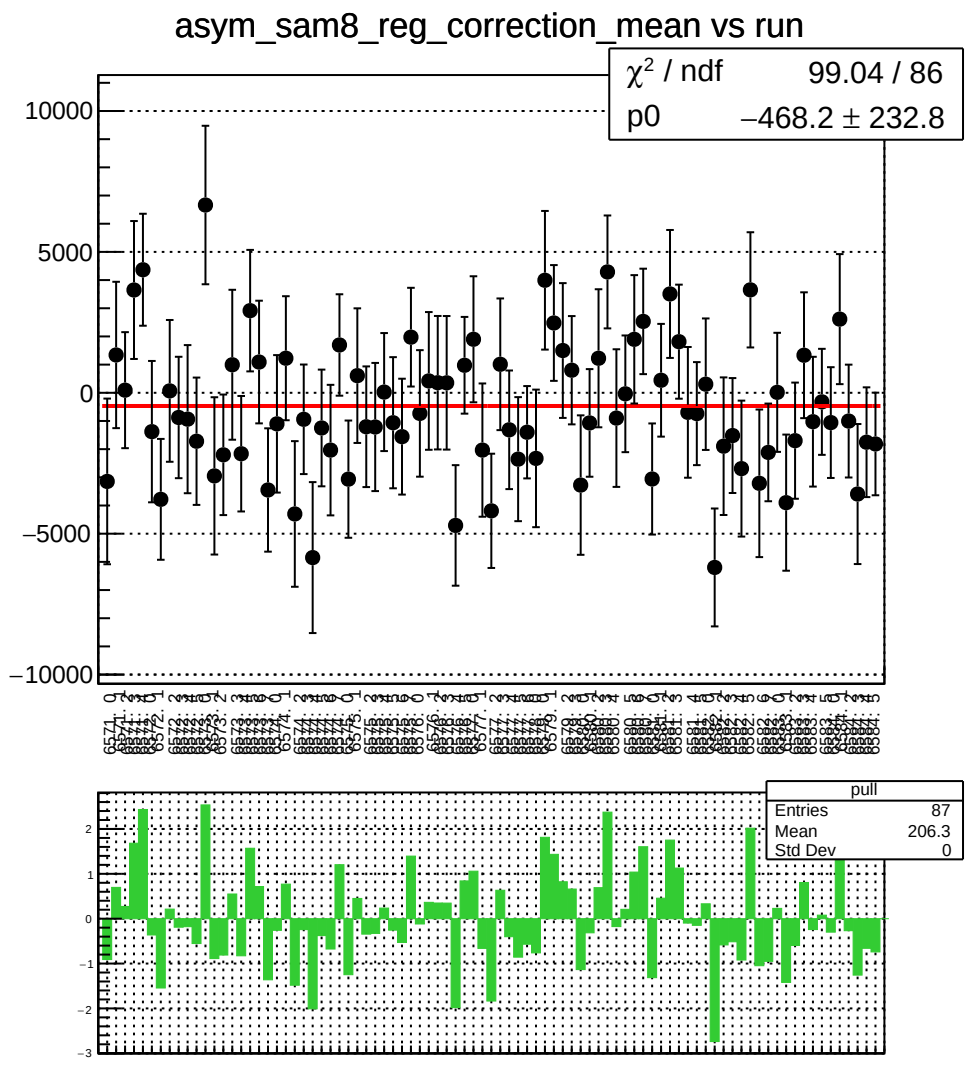

pull1D
Entries 87
Mean 0.03751
Std Dev 1.026

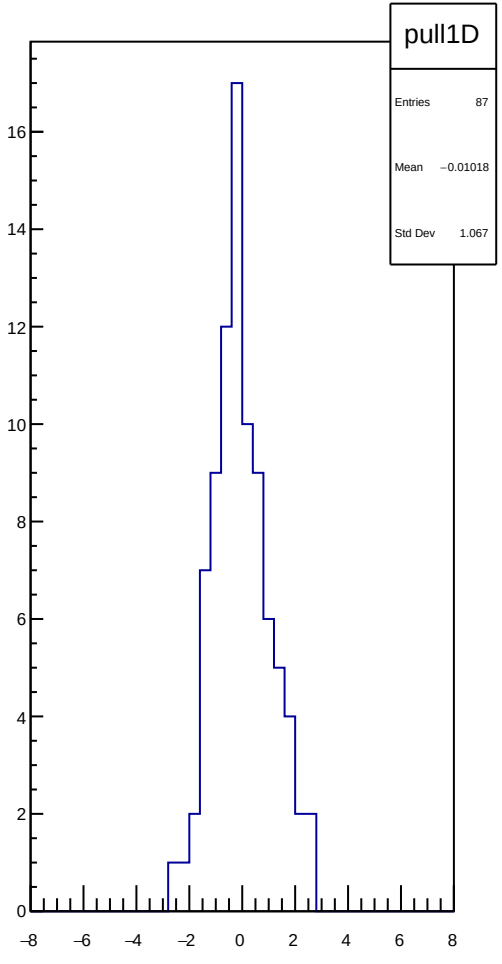

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.827e+05 / 86
p0 2.754e−12 ± 3.072e−15
30
25
20
15
10
5

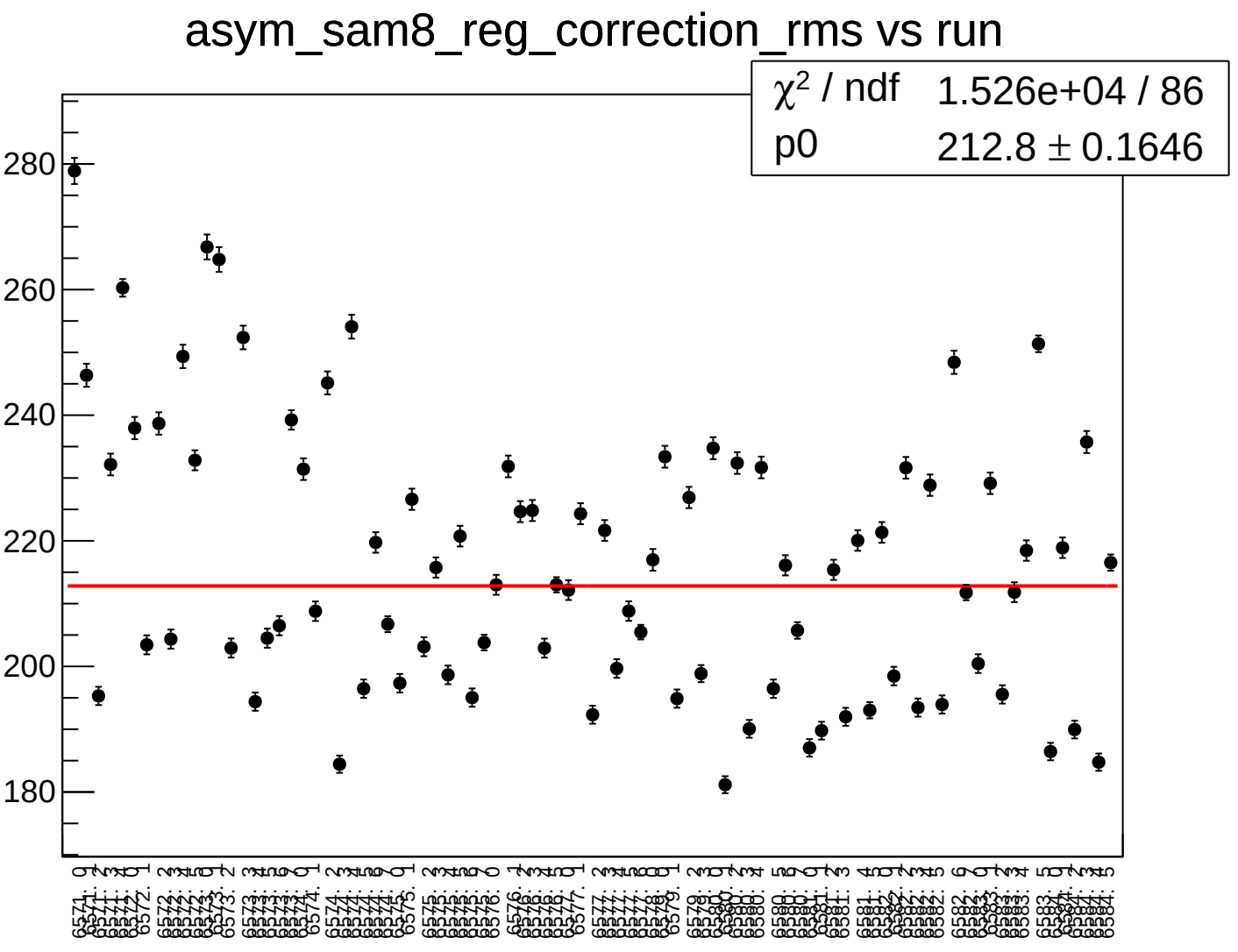

reg_asym_sam8_mean vs run
χ² / ndf 72.99 / 86
p0 −103.3 ± 67.8
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 1091
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

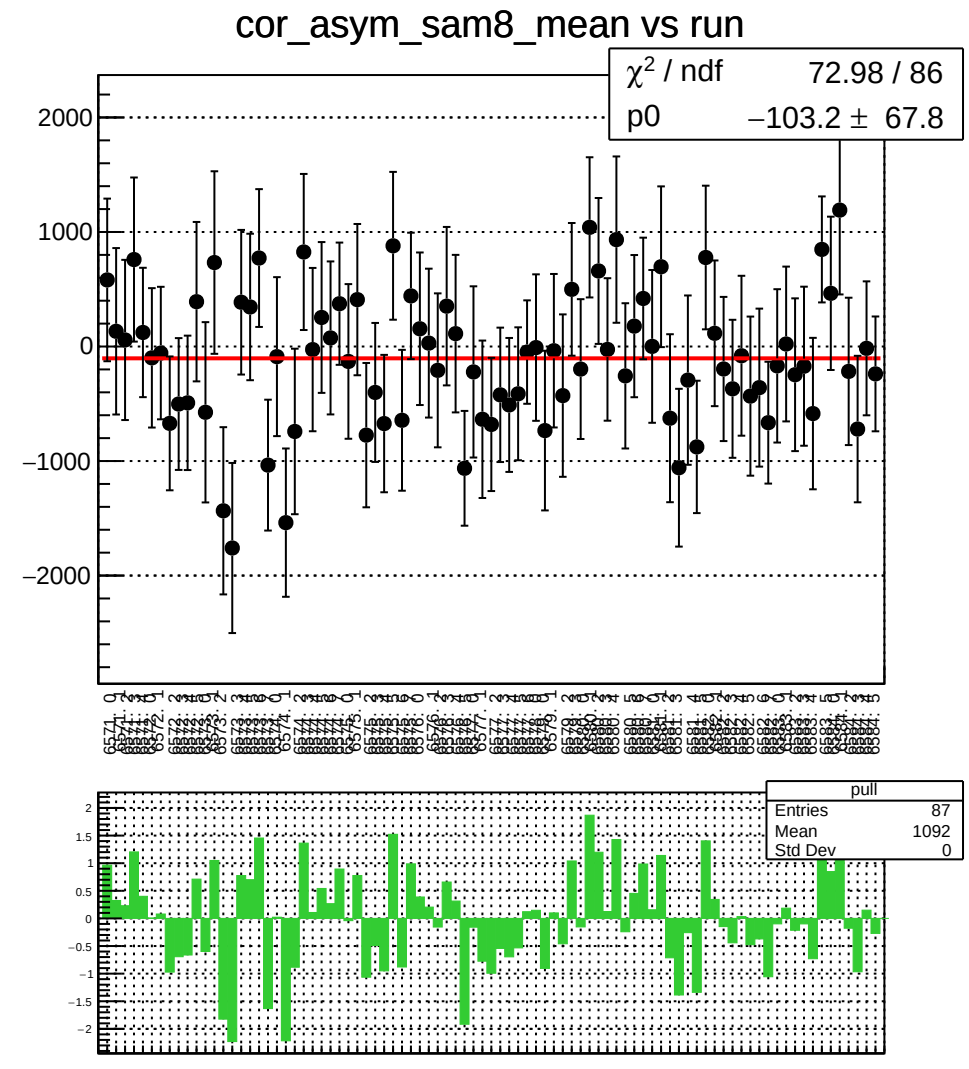

pull1D
Entries 87
Mean 0.0009507
Std Dev 0.9159
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

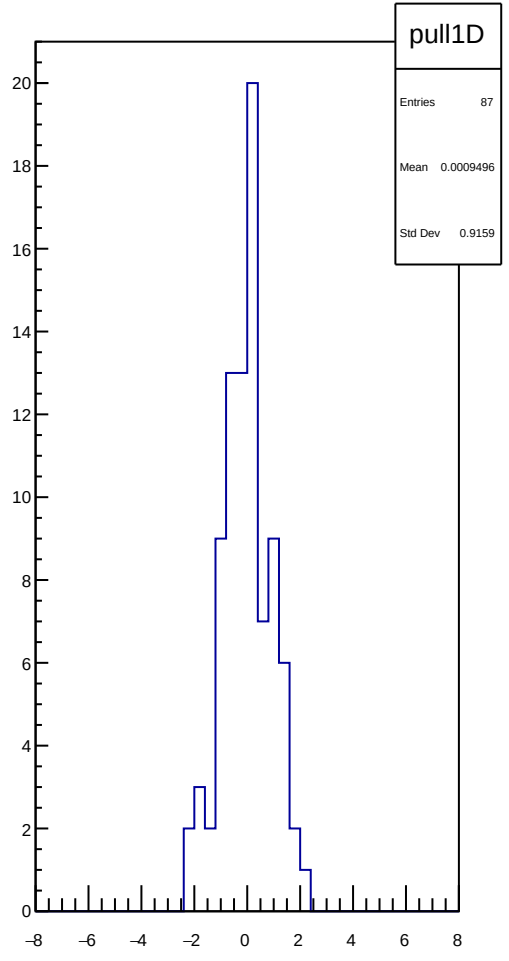

reg_asym_sam8_rms vs run
χ² / ndf 9929 / 86
p0 62.08 ± 0.04794
75
70
65
60
55

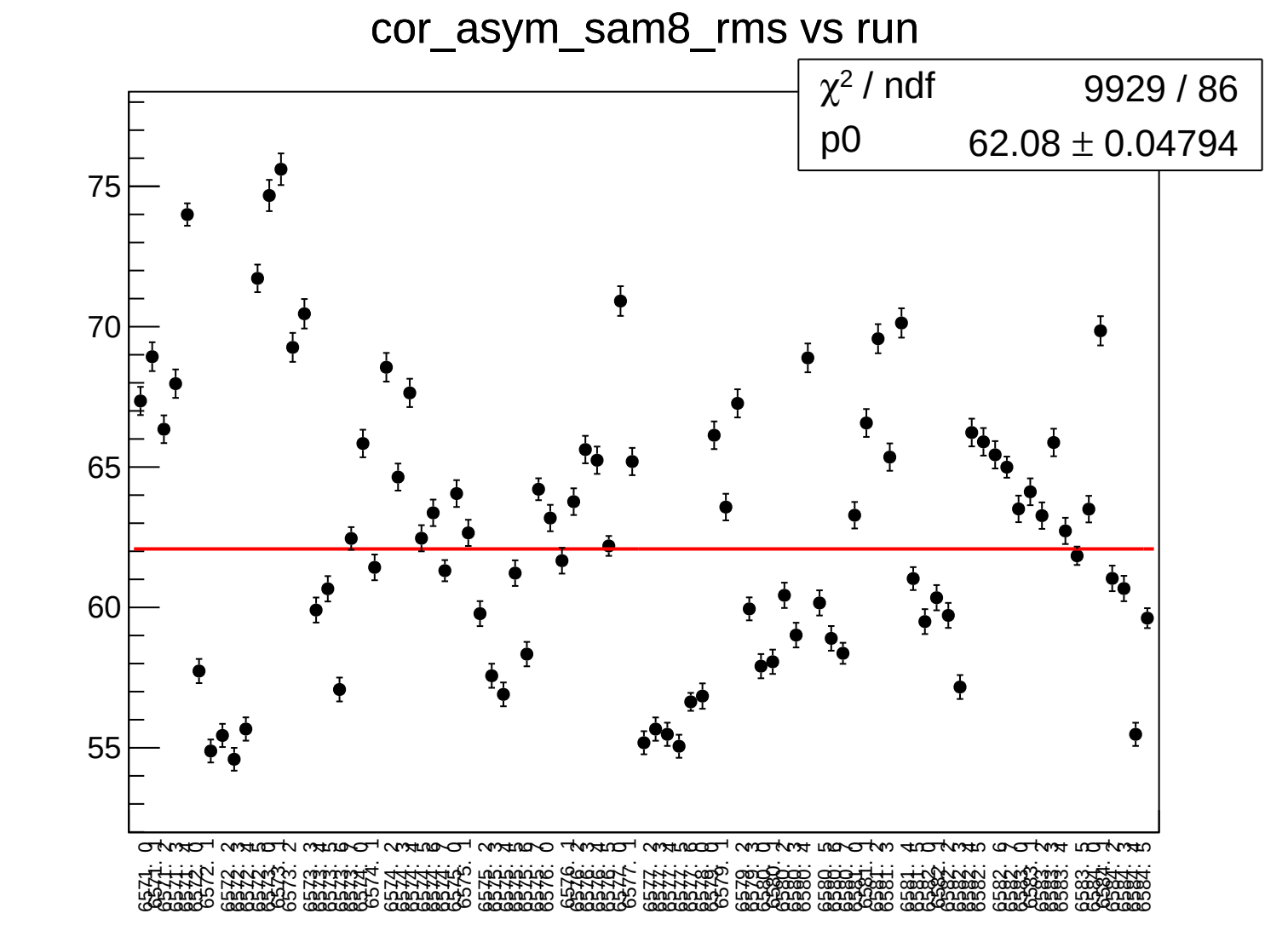

asym_sam8_reg_correction_mean vs run
χ² / ndf 99.04 / 86
p0 −468.2 ± 232.8
pull
Entries 87
Mean 206.3
Std Dev 0

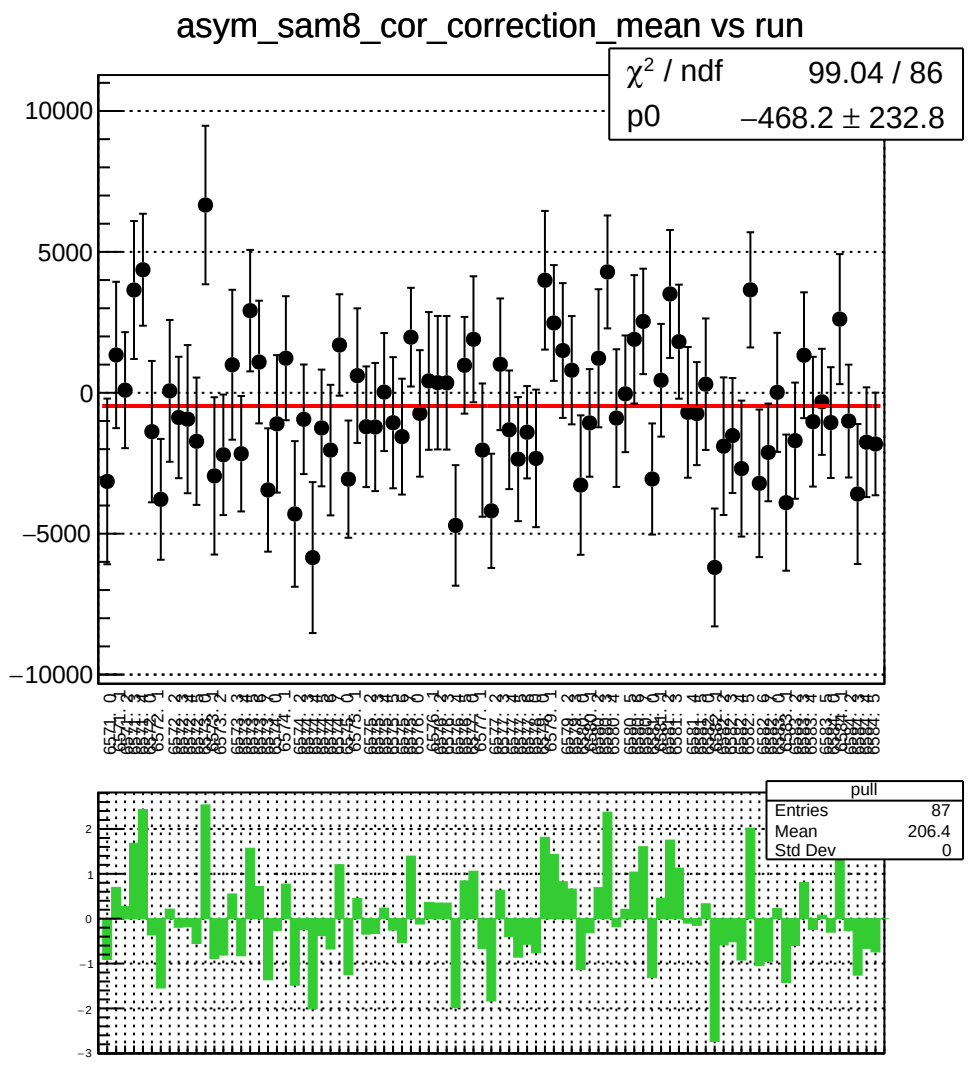

pull1D
Entries 87
Mean −0.01018
Std Dev 1.067

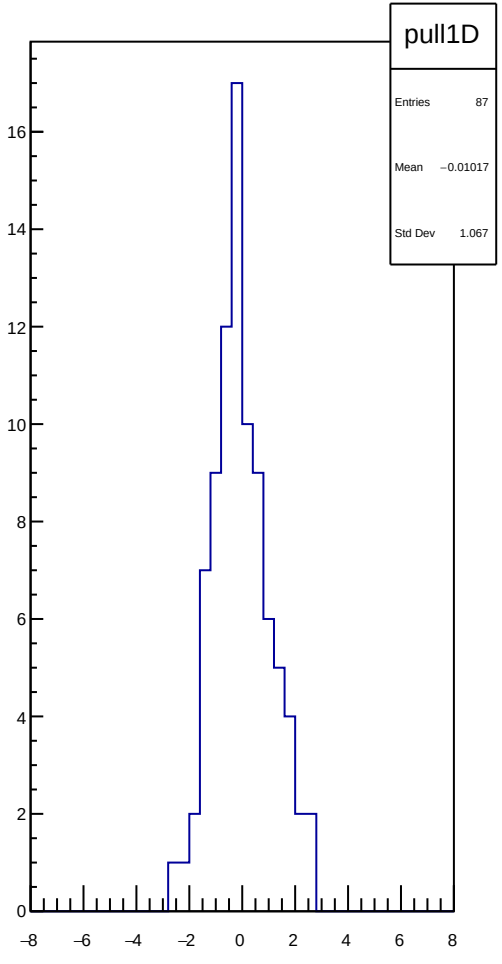

asym_sam8_reg_correction_rms vs run
χ² / ndf 1.526e+04 / 86
p0 212.8 ± 0.1646
280
260
240
220
200
180


cor_asym_sam8_mean vs run
χ² / ndf 72.98 / 86
p0 −103.2 ± 67.8
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 1092
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

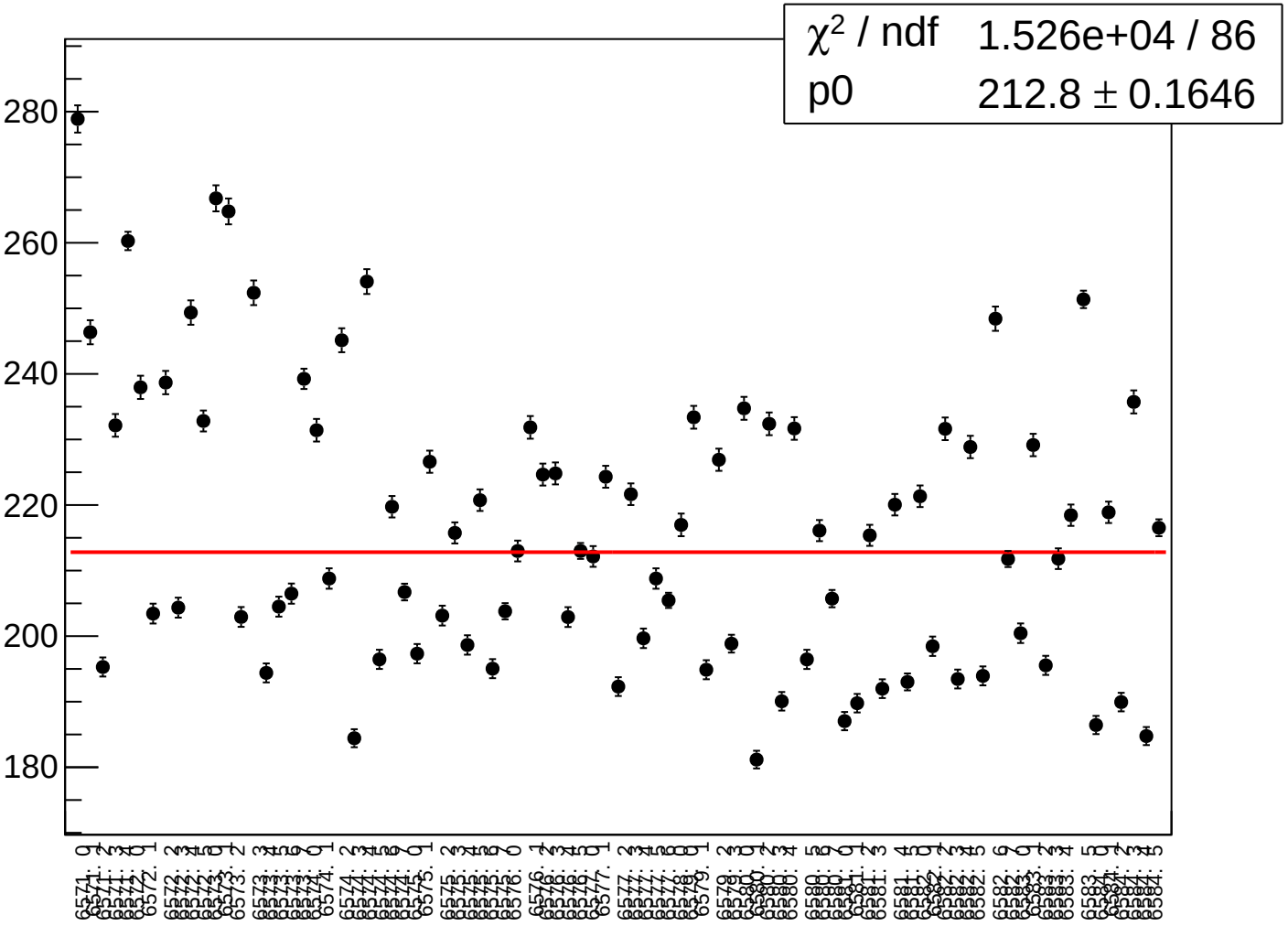

pull1D
Entries 87
Mean 0.0009496
Std Dev 0.9159
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

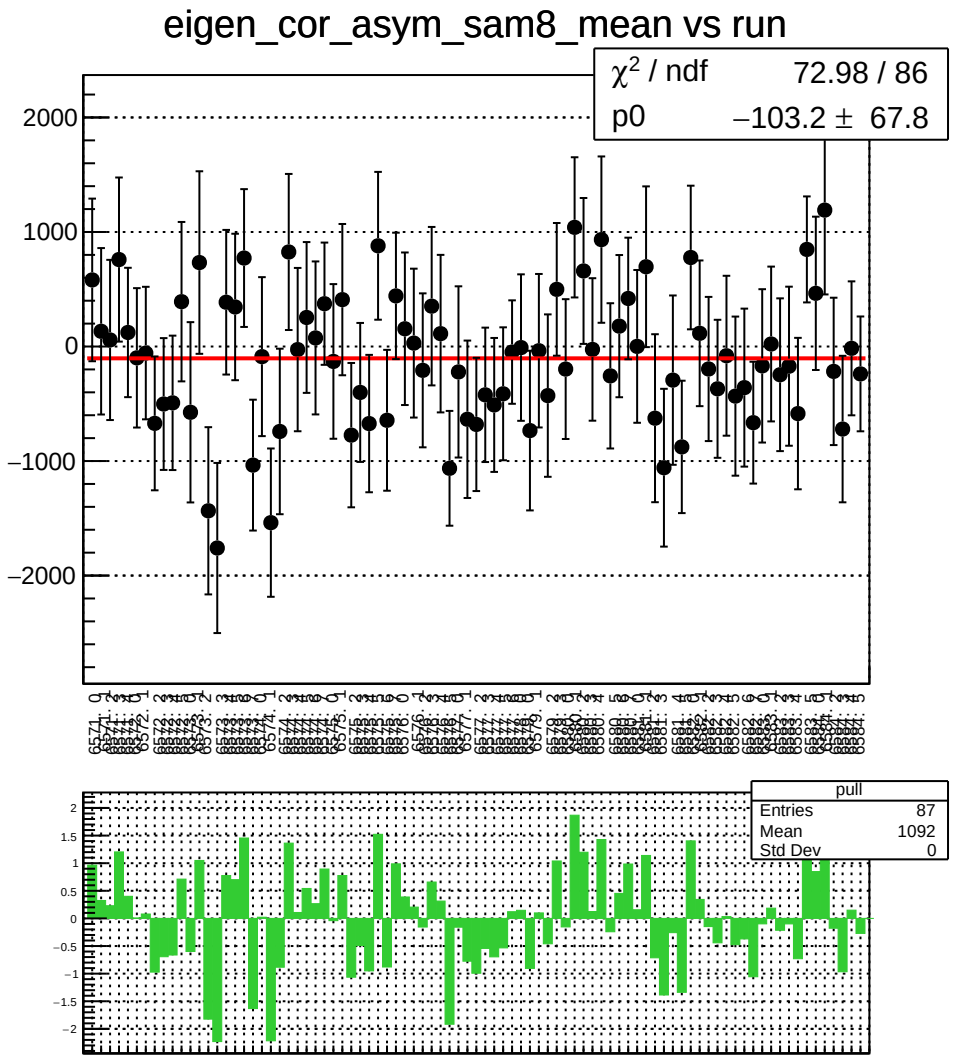

cor_asym_sam8_rms vs run
χ^2 / ndf 9929 / 86
p0 62.08 ± 0.04794
75
70
65
60
55

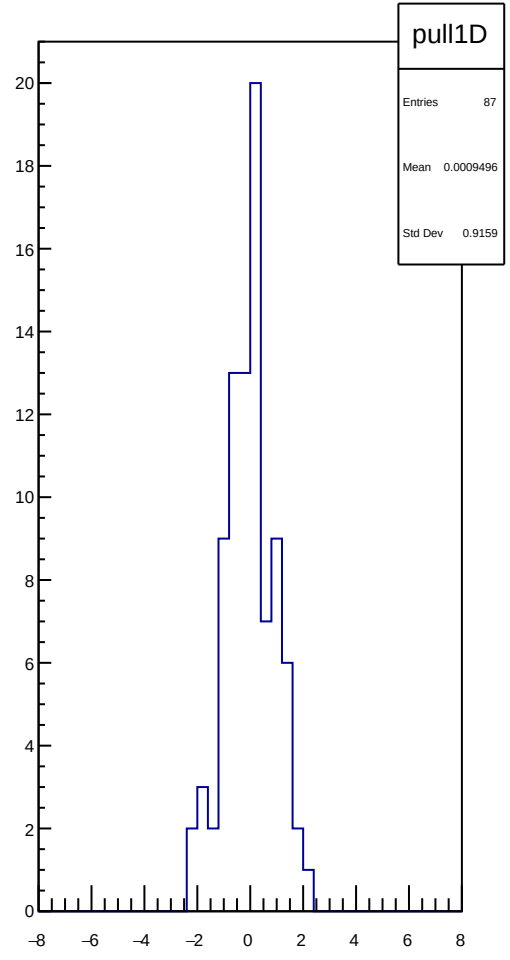

asym_sam8_cor_correction_mean vs run
χ² / ndf 99.04 / 86
p0 −468.2 ± 232.8
pull
Entries 87
Mean 206.4
Std Dev 0

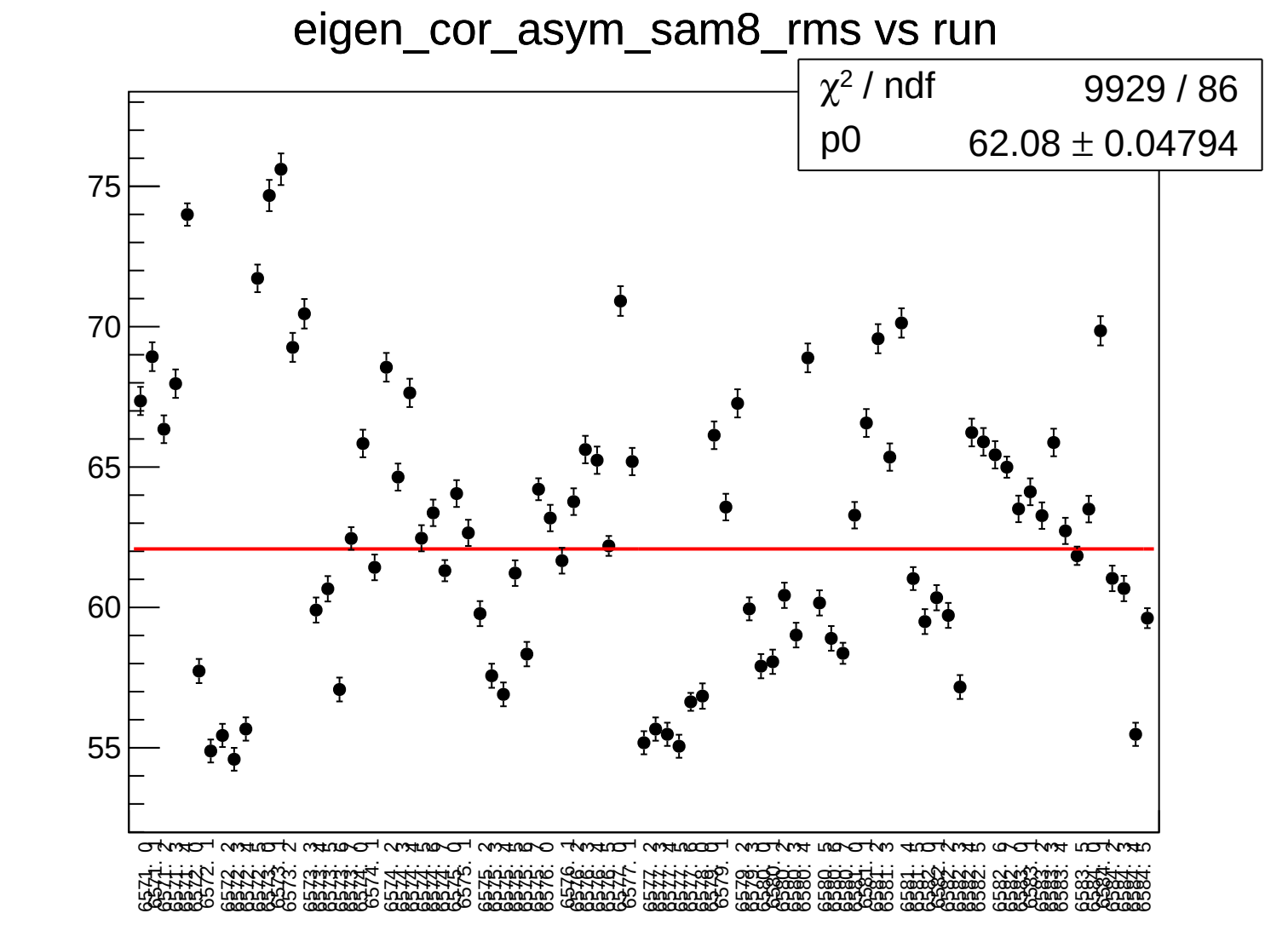

pull1D
Entries 87
Mean −0.01017
Std Dev 1.067

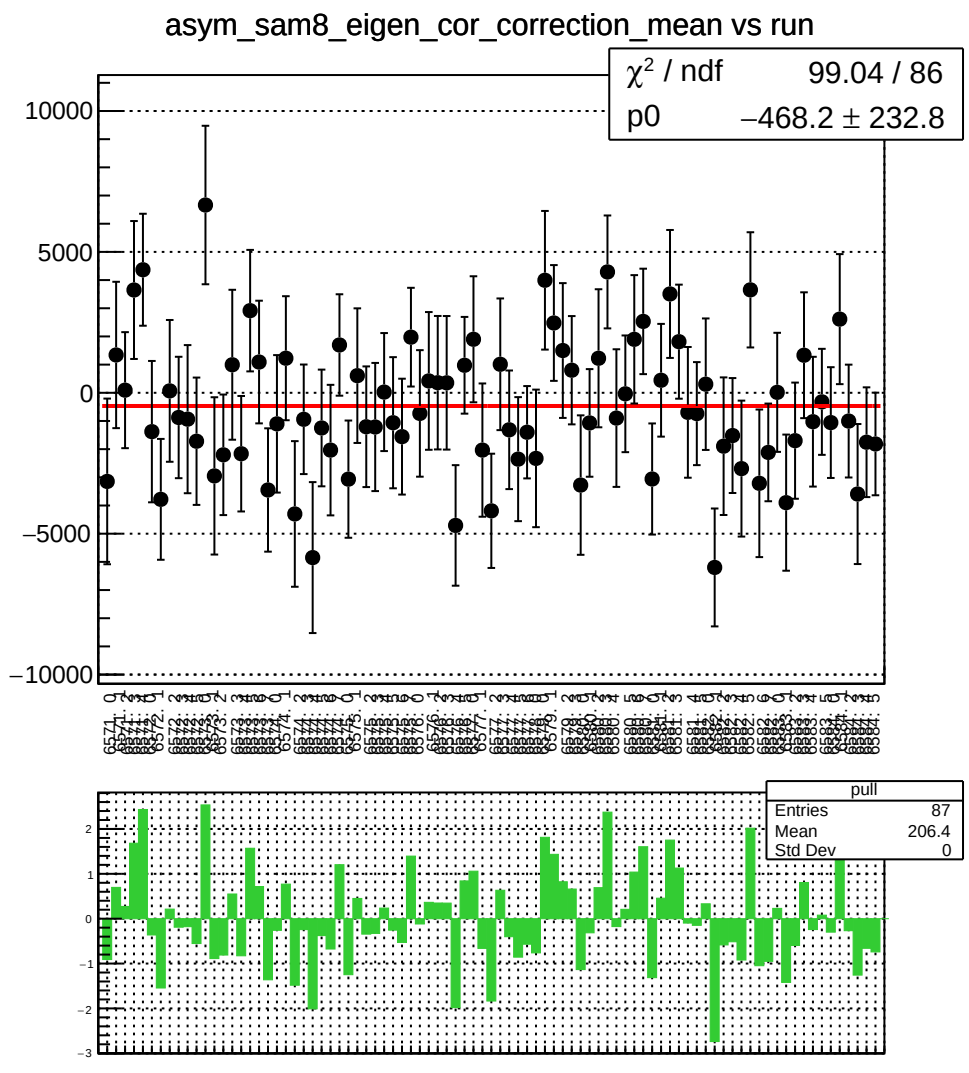
asym_sam8_cor_correction_rms vs run

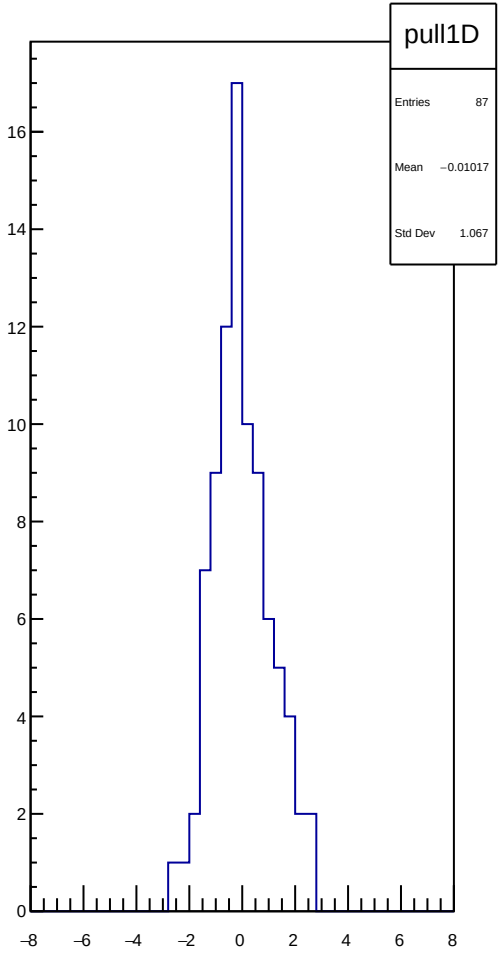


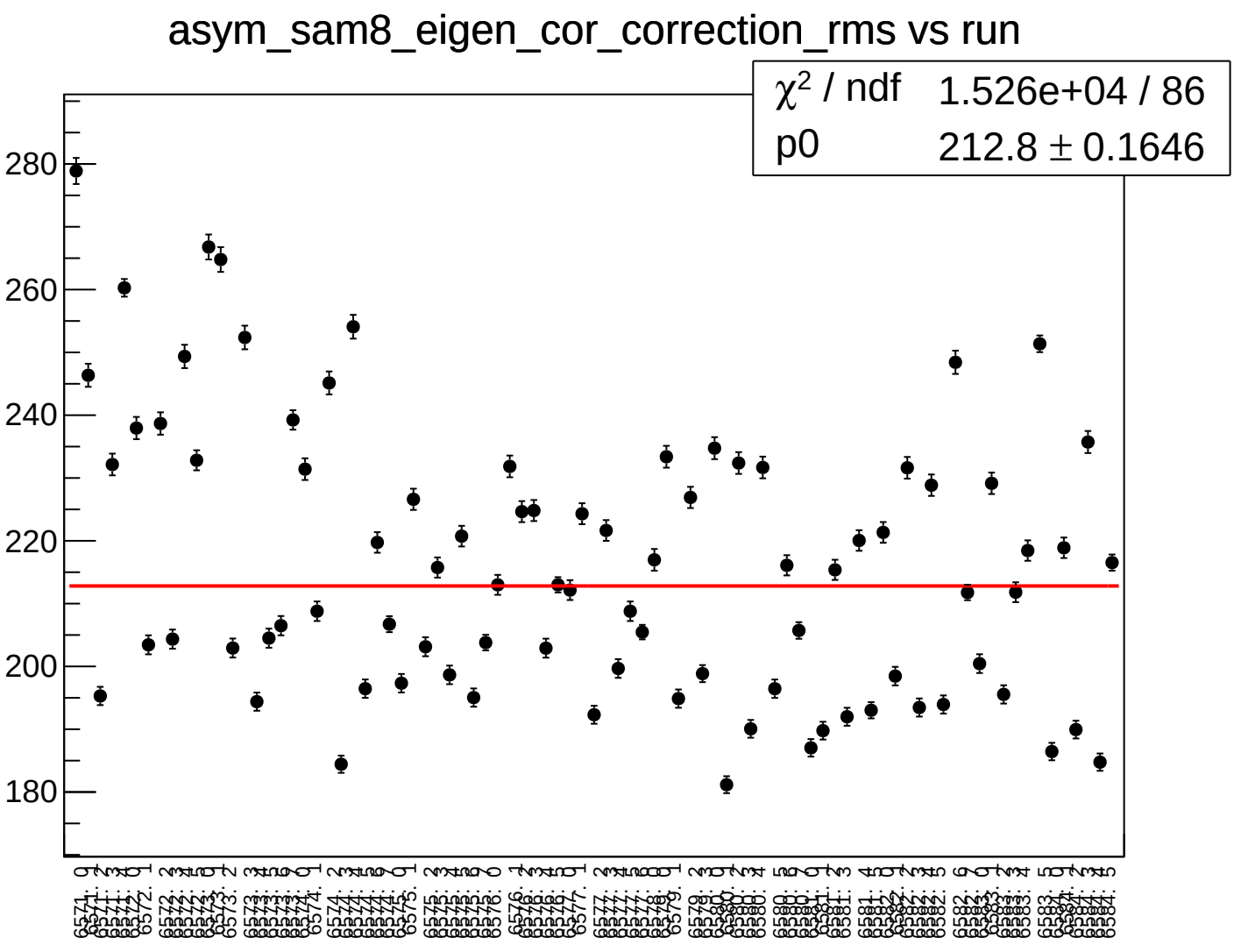

eigen_cor_asym_sam8_mean vs run
χ² / ndf 72.98 / 86
p0 −103.2 ± 67.8
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 1092
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

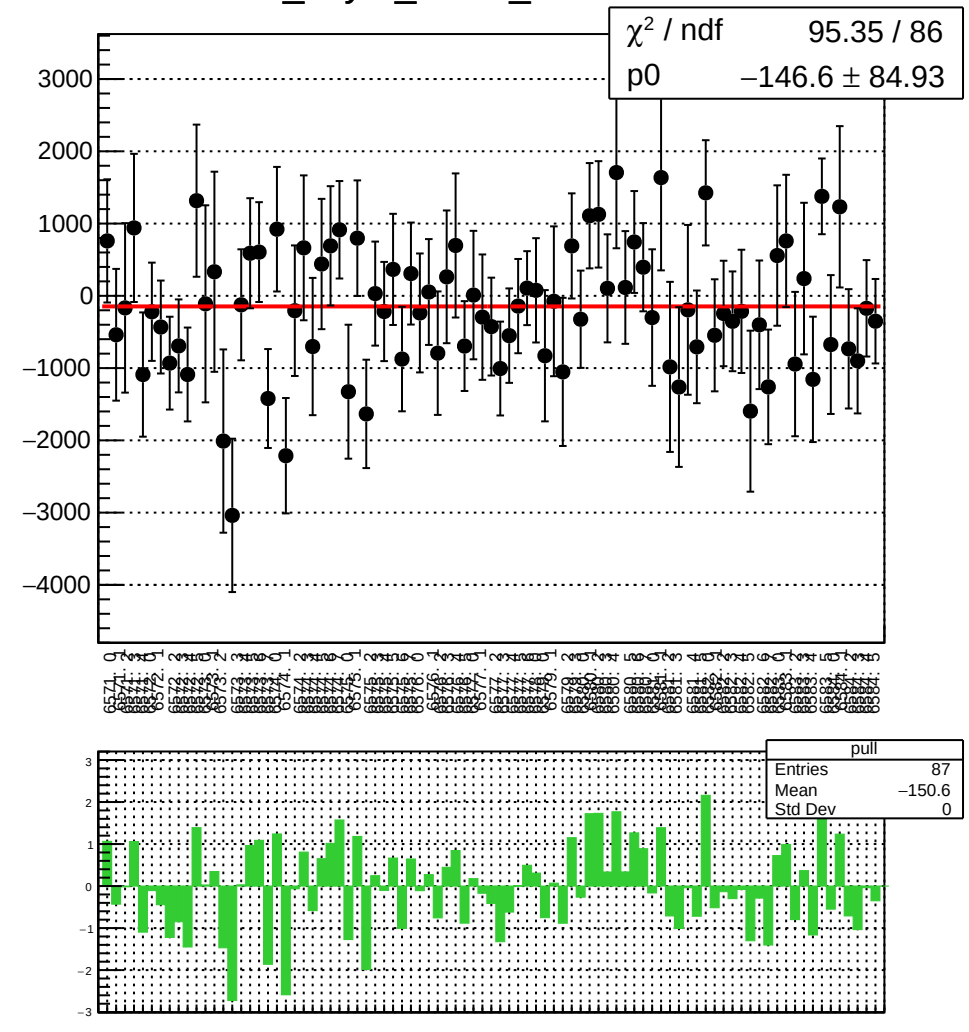

pull1D
Entries 87
Mean 0.0009496
Std Dev 0.9159
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

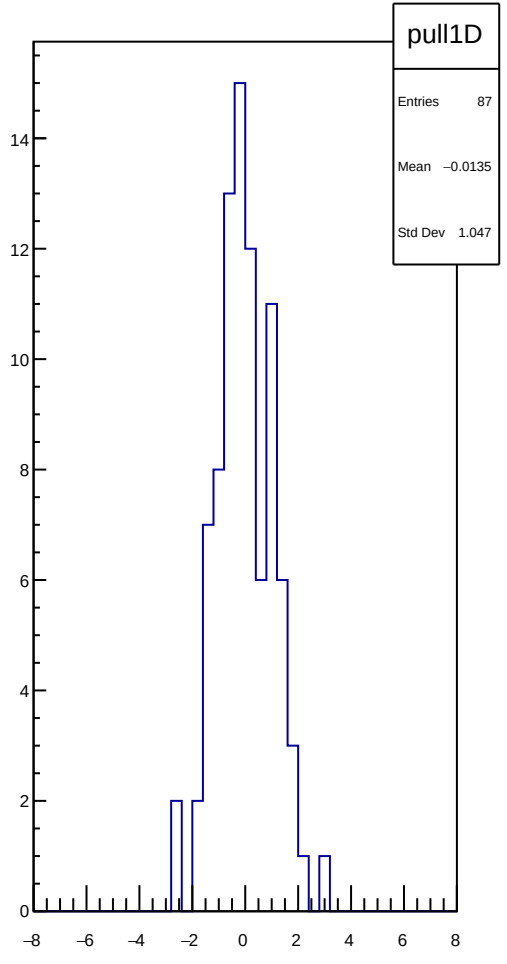

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 9929 / 86
p0 62.08 ± 0.04794
75
70
65
60
55

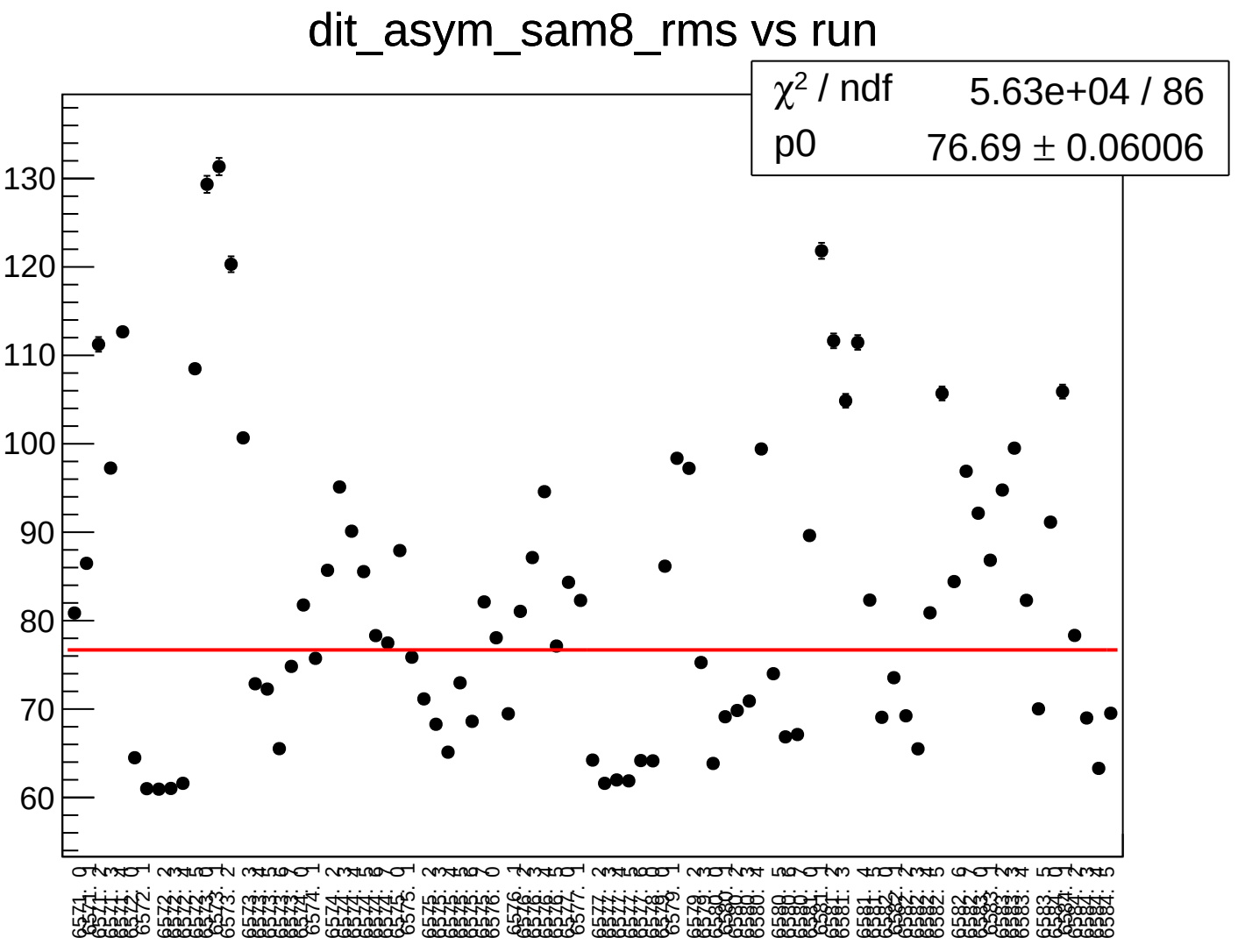

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 99.04 / 86
p0 −468.2 ± 232.8
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 206.4
Std Dev 0
2
1
0
−1
−2
−3

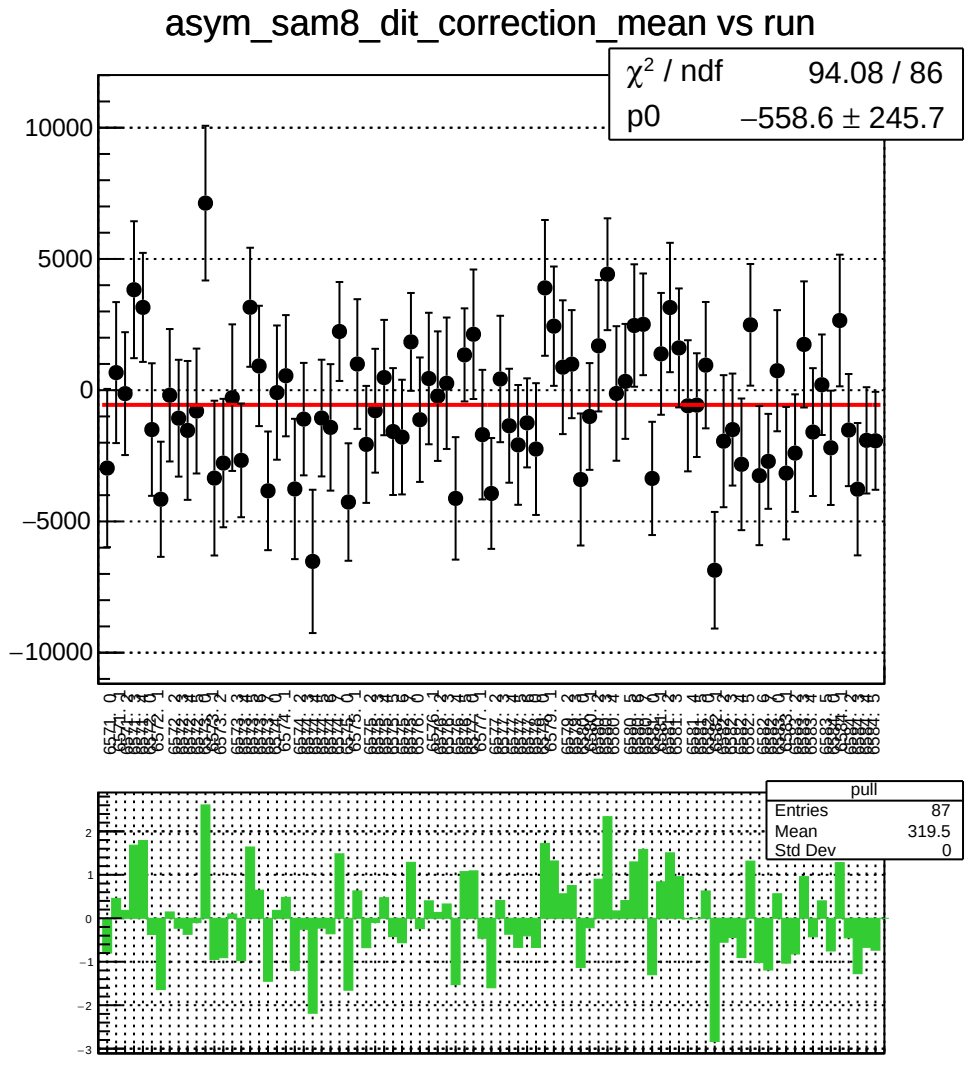

pull1D
Entries 87
Mean −0.01017
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

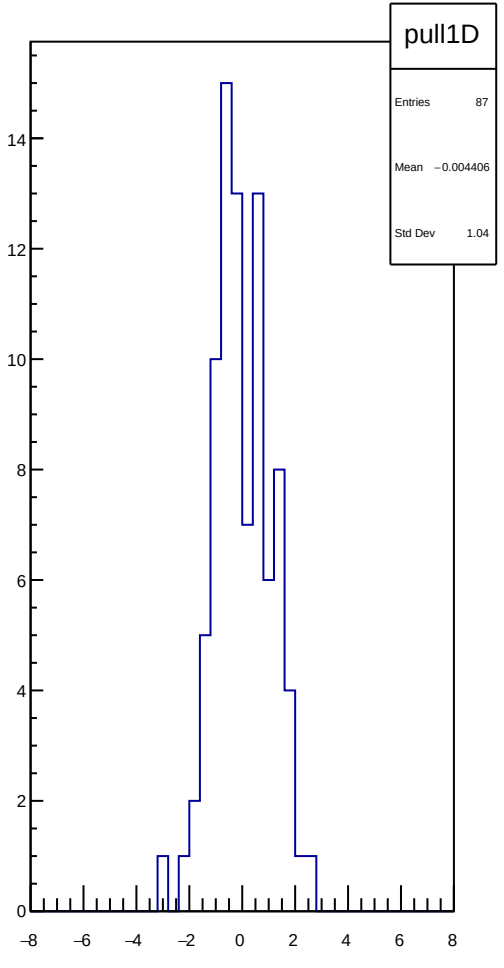

asym_sam8_eigen_cor_correction_rms vs run
χ^2 / ndf 1.526e+04 / 86
p0 212.8 ± 0.1646
280
260
240
220
200
180

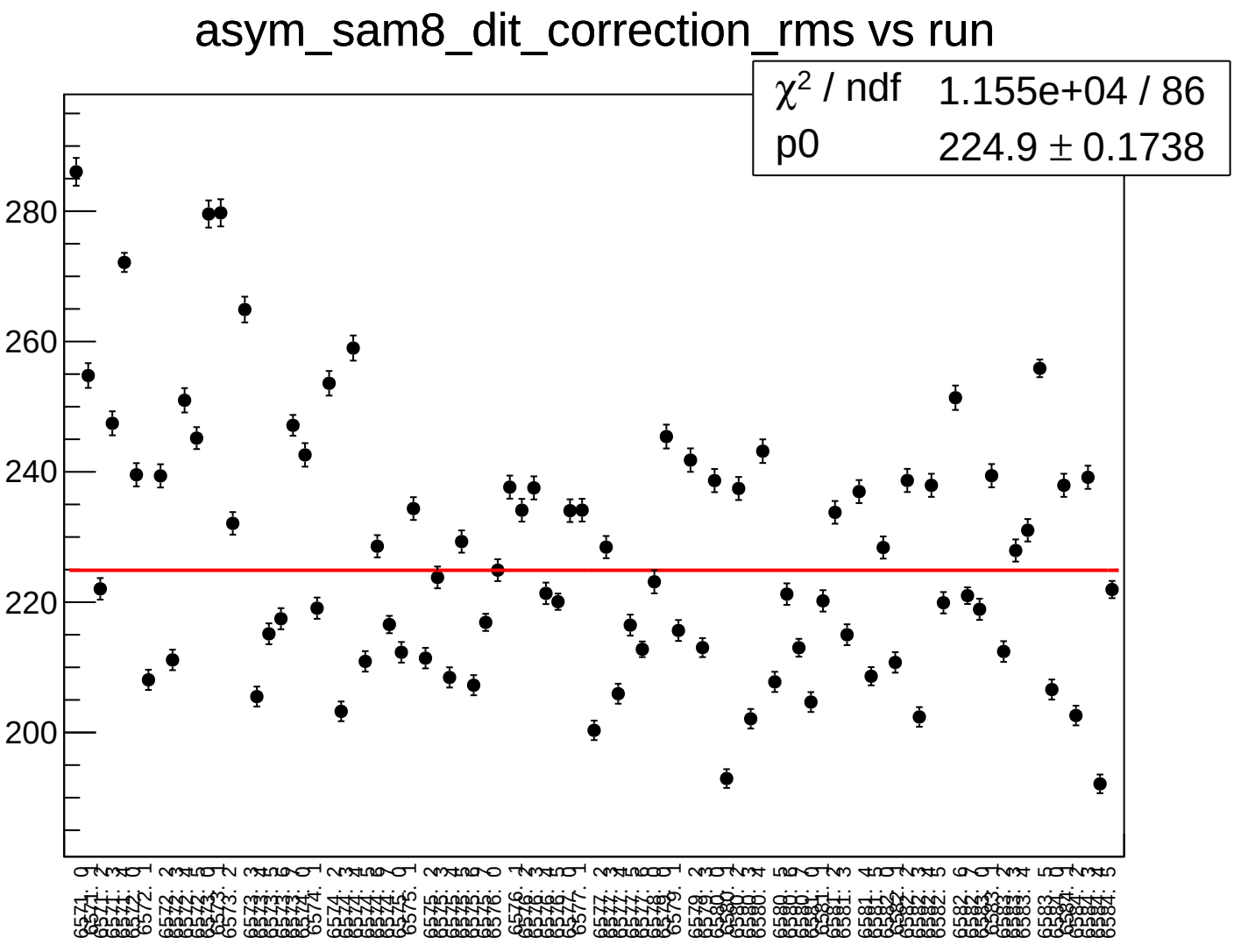

dit_asym_sam8_mean vs run
χ² / ndf 95.35 / 86
p0 −146.6 ± 84.93
pull
Entries 87
Mean −150.6
Std Dev 0

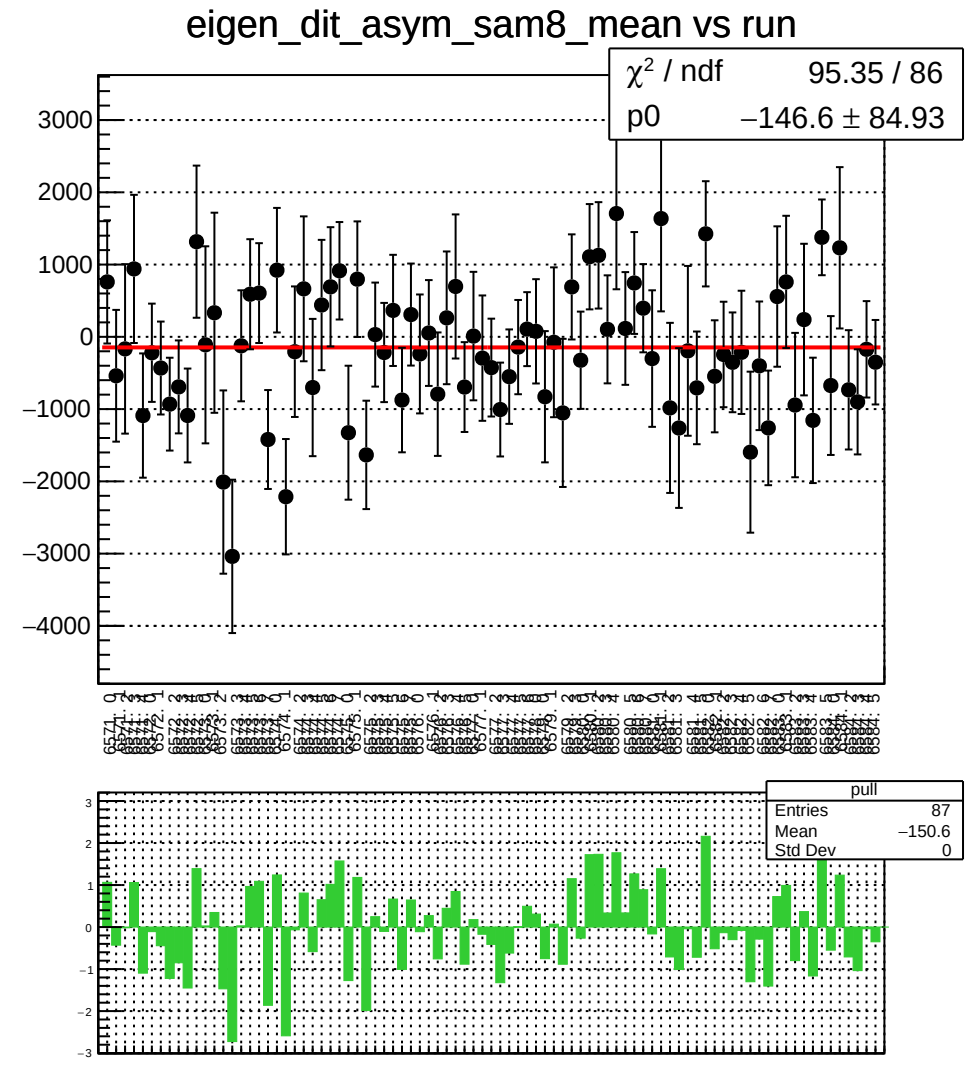

pull1D
Entries 87
Mean −0.0135
Std Dev 1.047

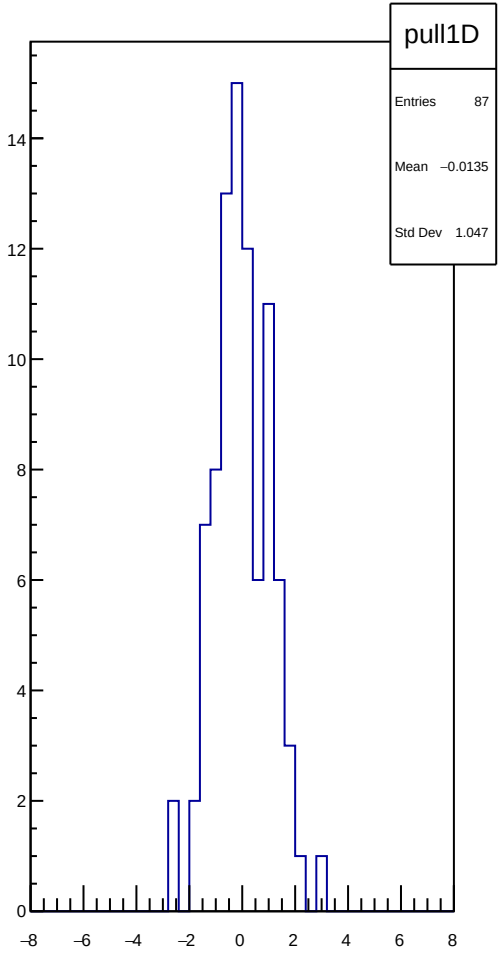

dit_asym_sam8_rms vs run
χ^2 / ndf 5.63e+04 / 86
p0 76.69 ± 0.06006
130
120
110
100
90
80
70
60

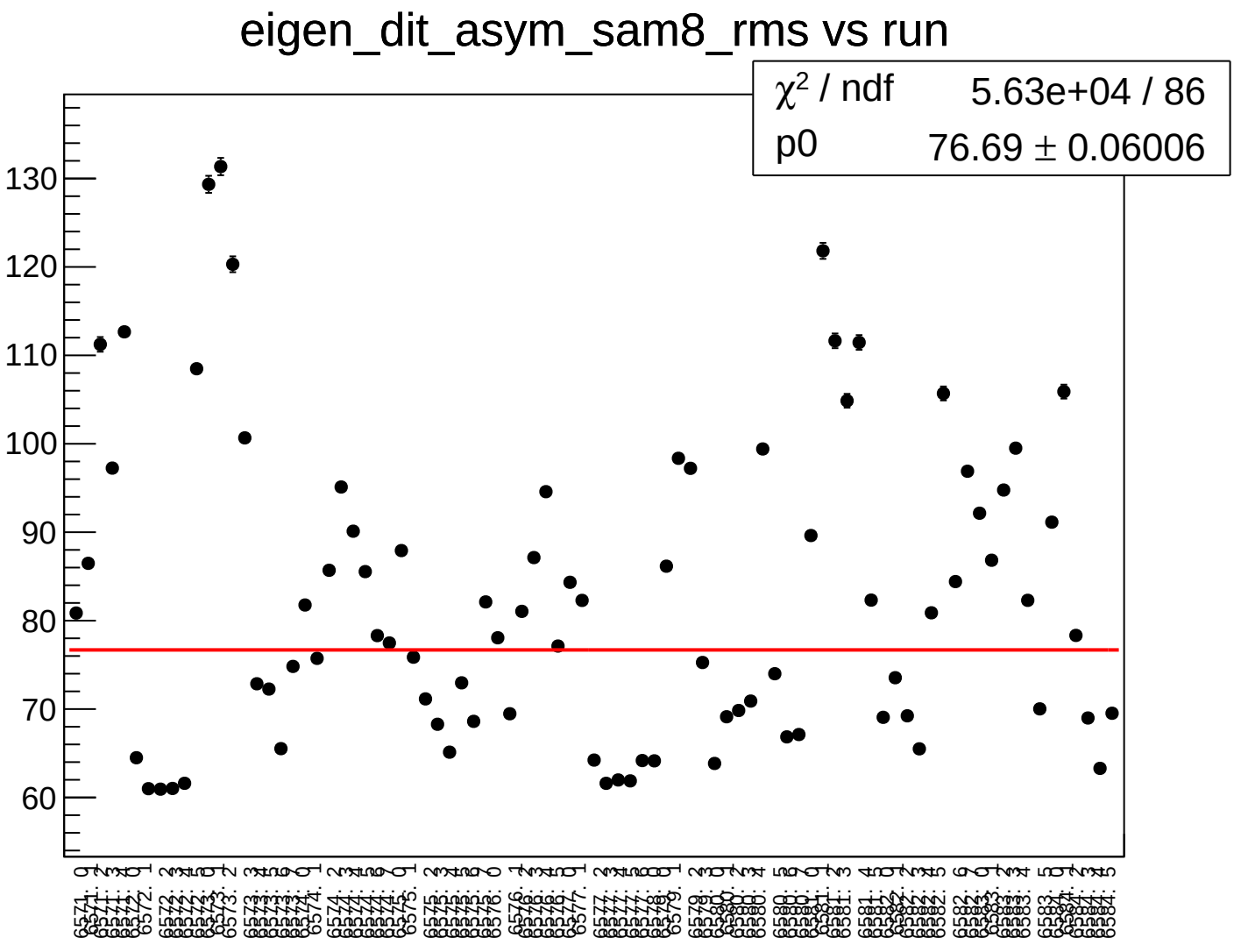

asym_sam8_dit_correction_mean vs run
χ² / ndf 94.08 / 86
p0 −558.6 ± 245.7
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 319.5
Std Dev 0
2
1
0
−1
−2
−3

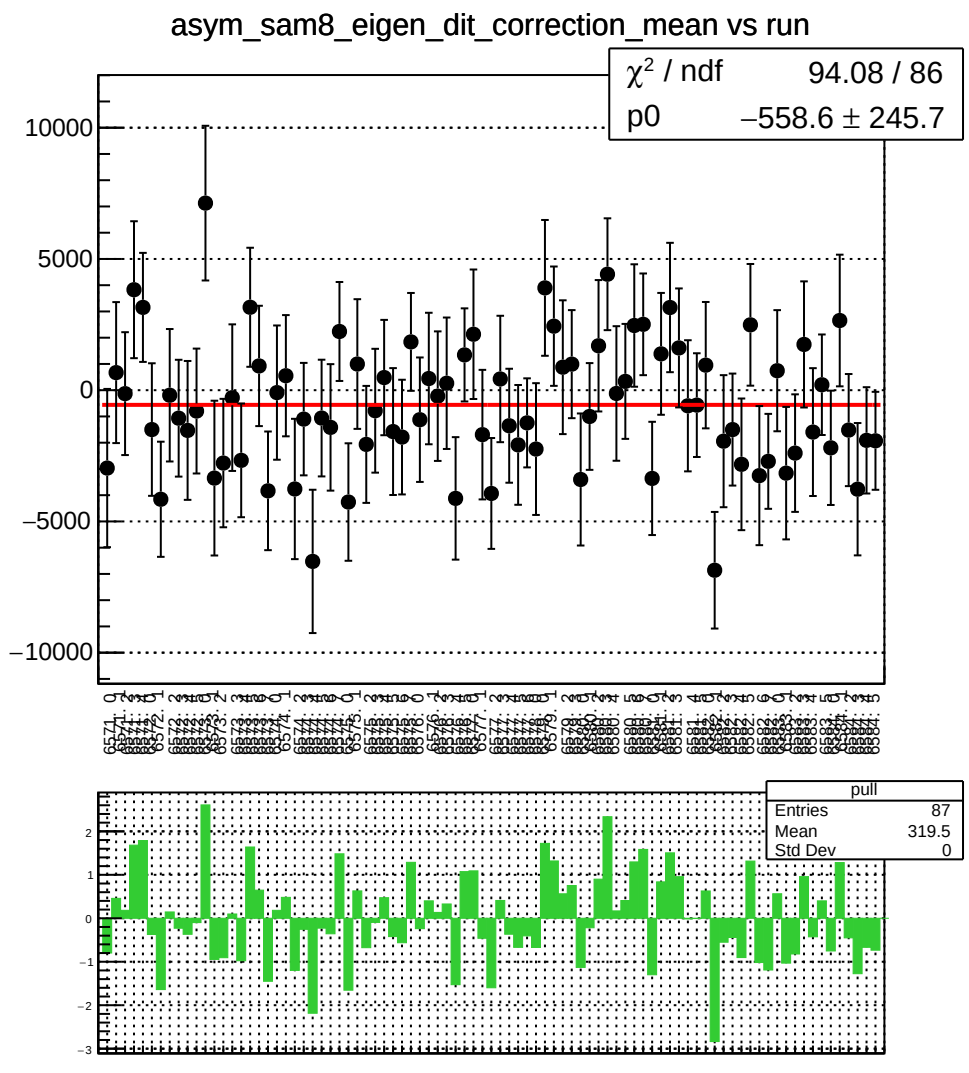

pull1D
Entries 87
Mean −0.004406
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

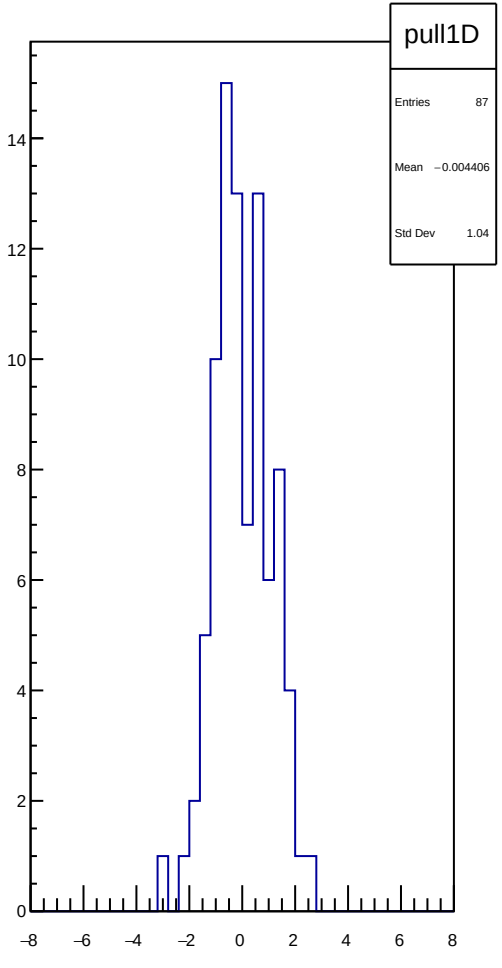

asym_sam8_dit_correction_rms vs run
χ² / ndf 1.155e+04 / 86
p0 224.9 ± 0.1738
280
260
240
220
200

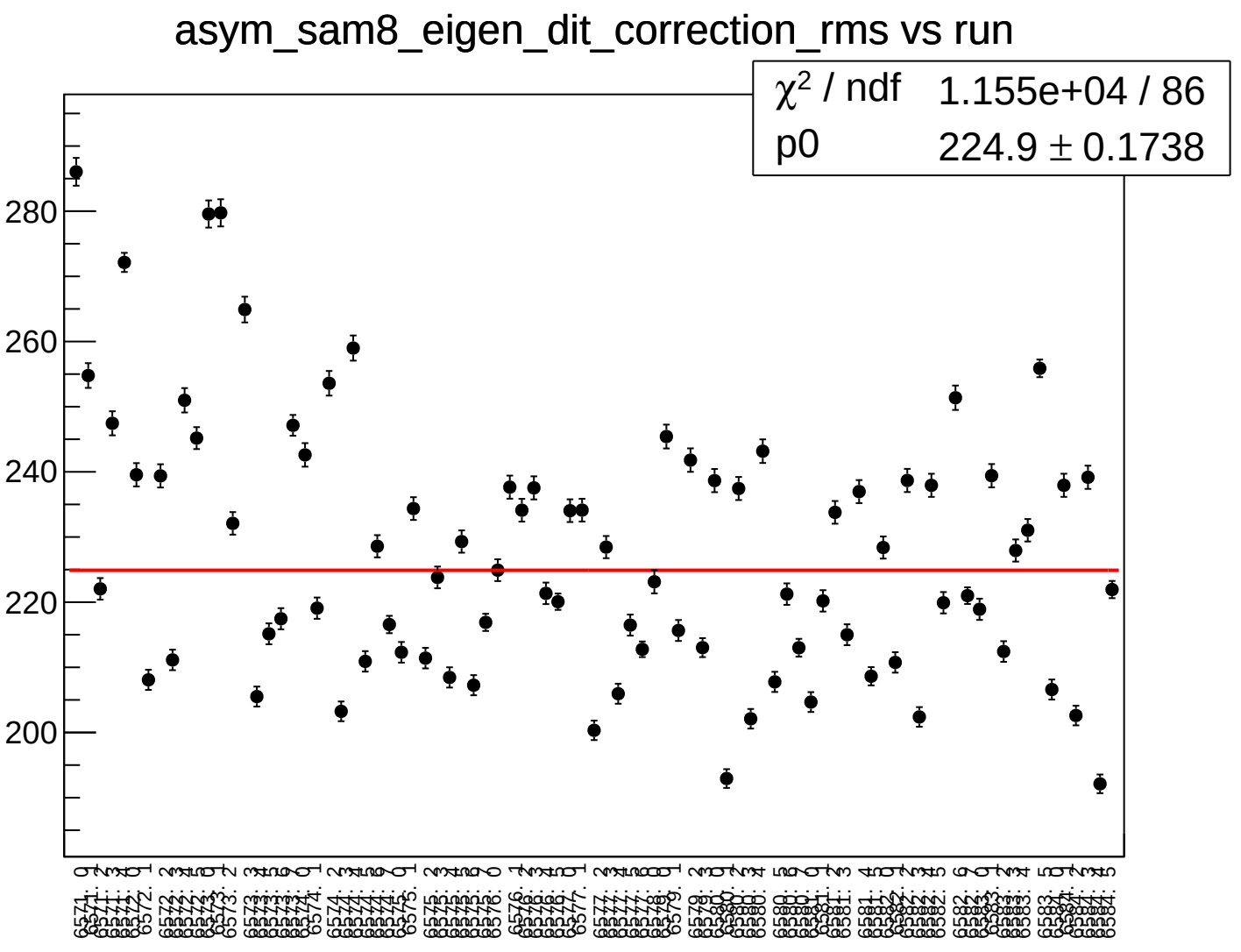

eigen_dit_asym_sam8_mean vs run
χ² / ndf 95.35 / 86
p0 −146.6 ± 84.93
pull
Entries 87
Mean −150.6
Std Dev 0

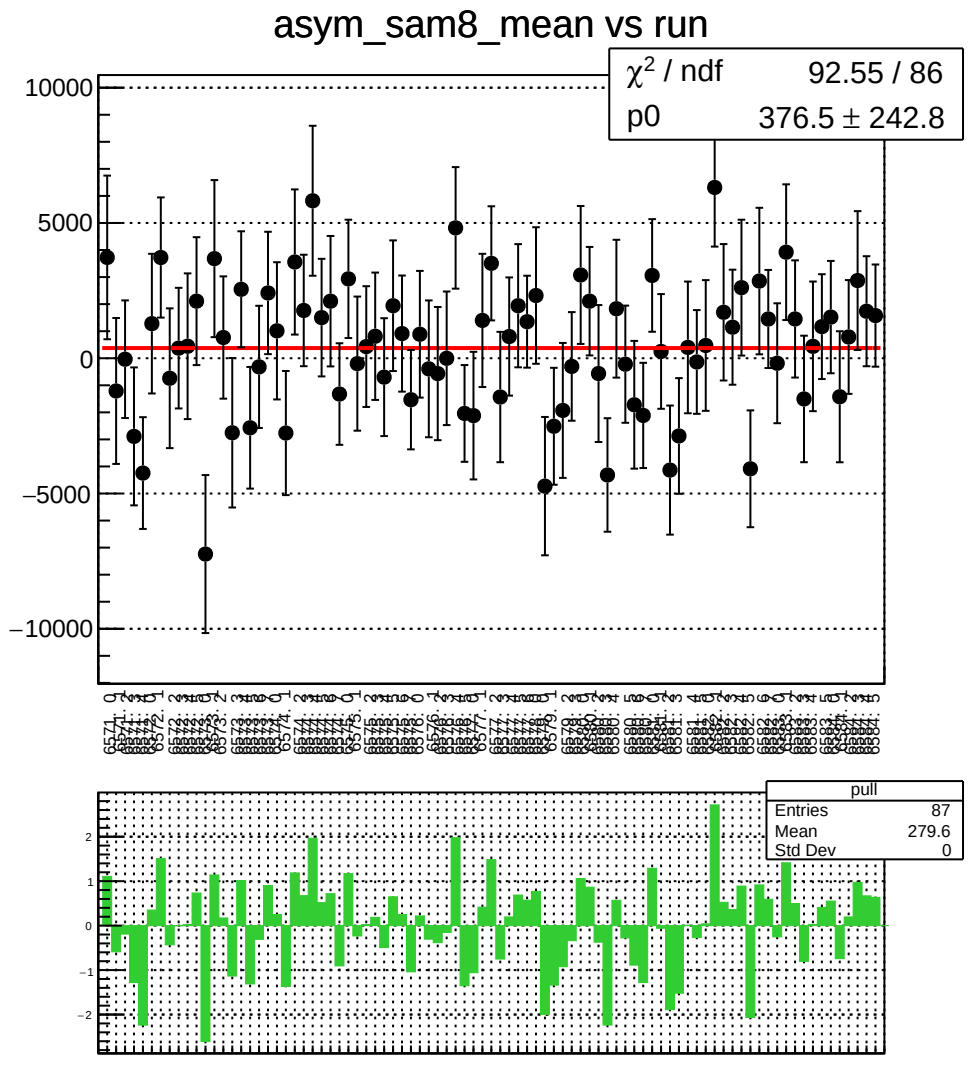

pull1D
Entries 87
Mean −0.0135
Std Dev 1.047

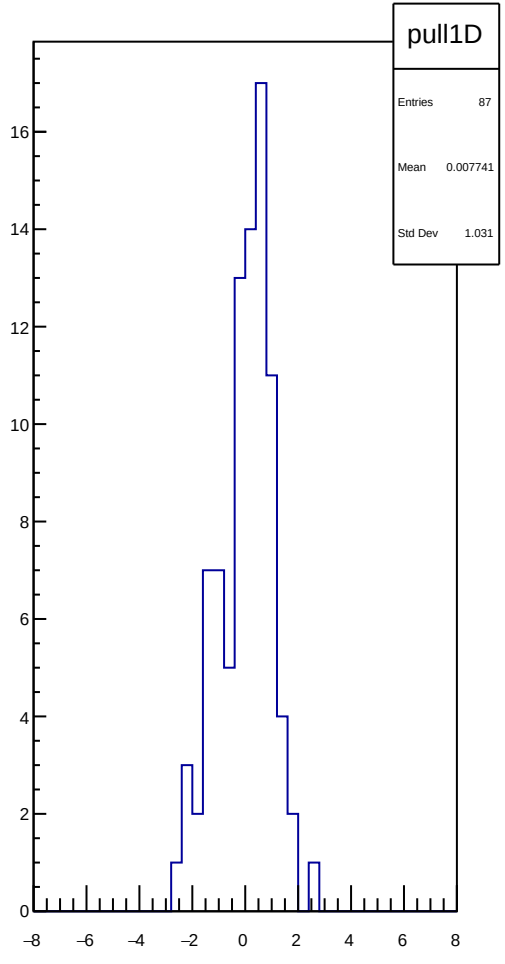

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 5.63e+04 / 86
p0 76.69 ± 0.06006
130
120
110
100
90
80
70
60

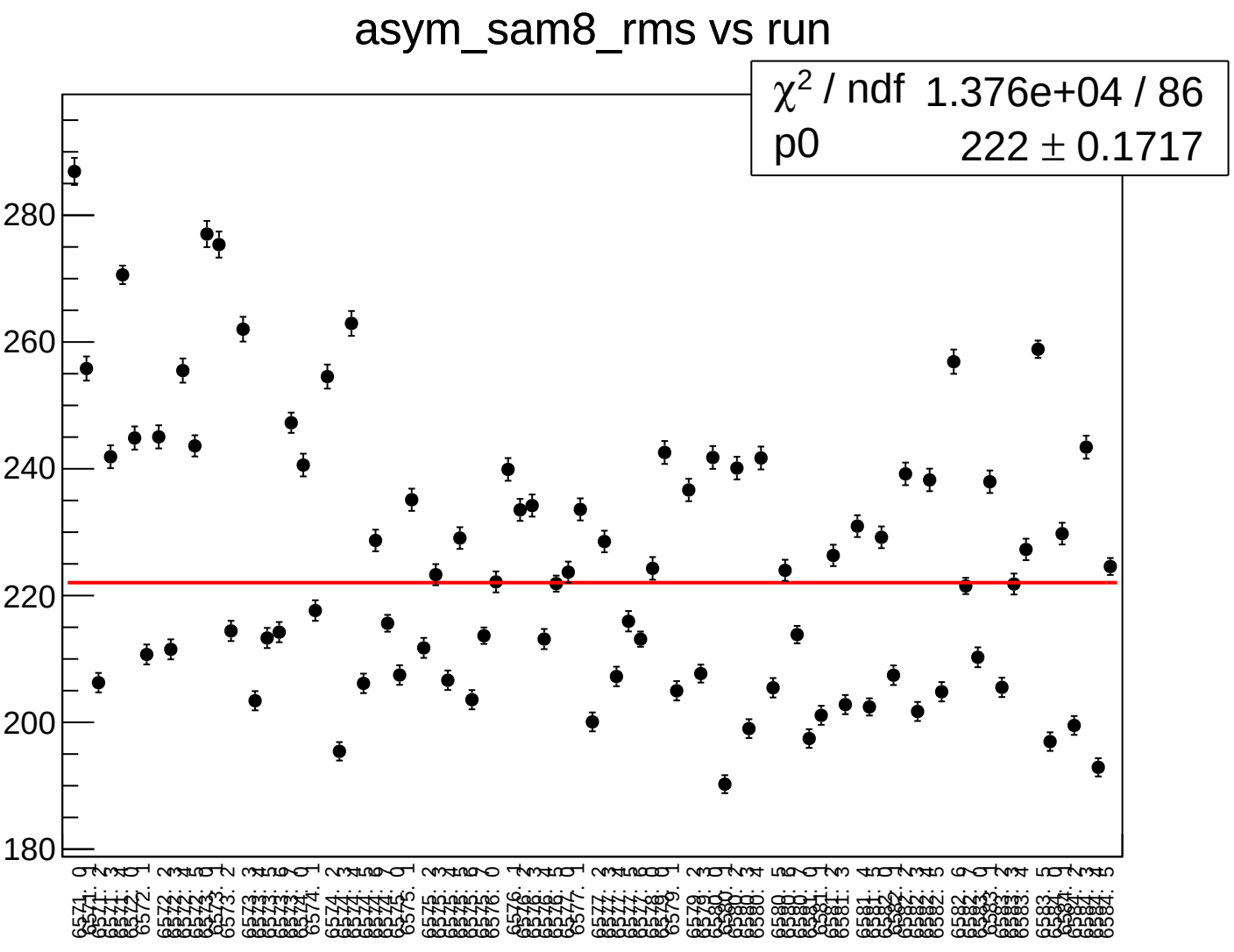

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 94.08 / 86
p0 −558.6 ± 245.7
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 319.5
Std Dev 0
2
1
0
−1
−2
−3

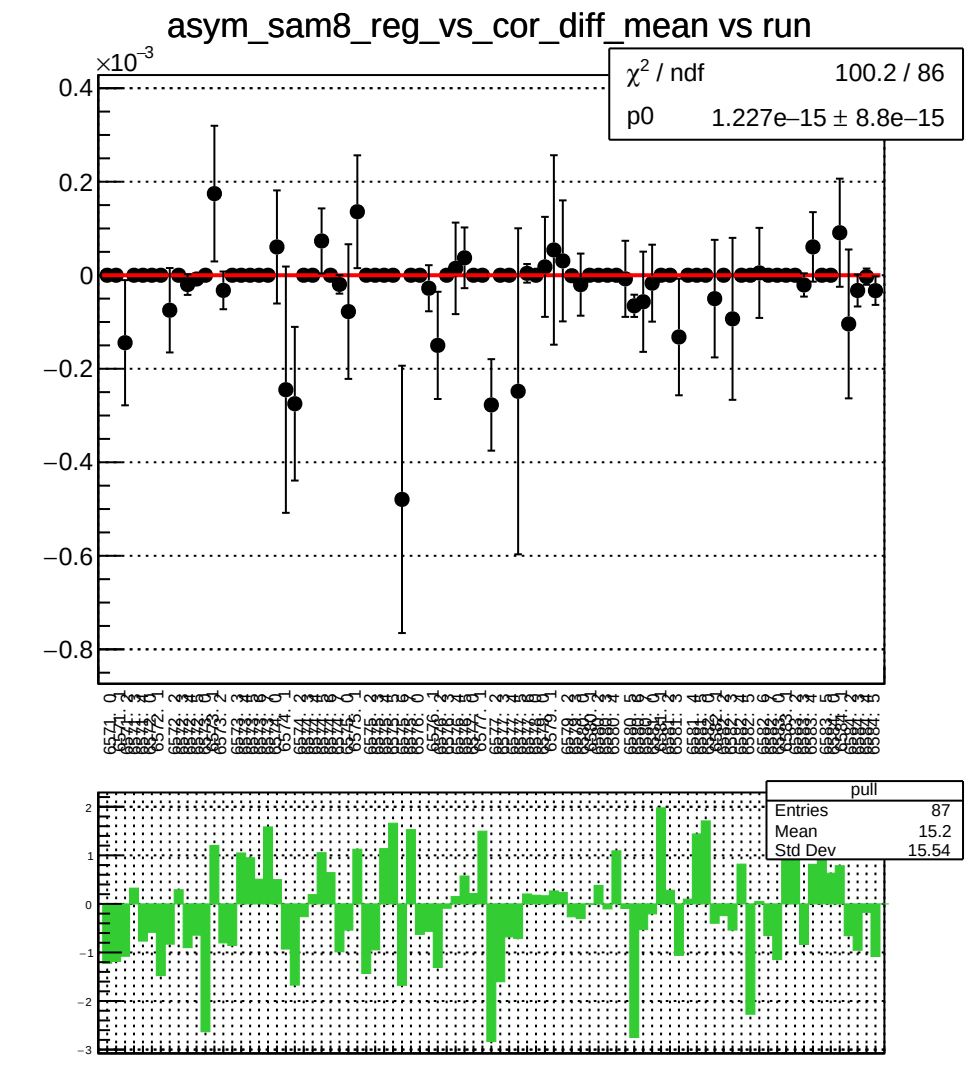

pull1D
Entries 87
Mean −0.004406
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

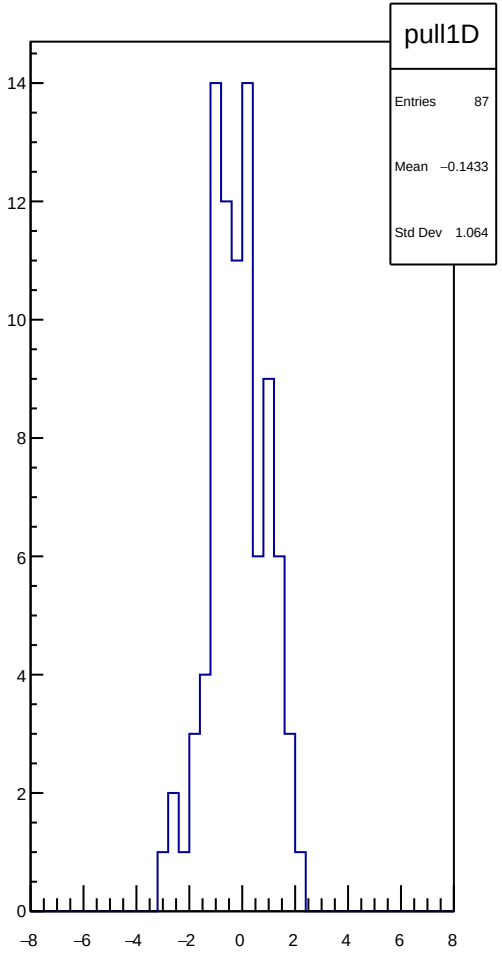

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1.155e+04 / 86
p0 224.9 ± 0.1738
280
260
240
220
200

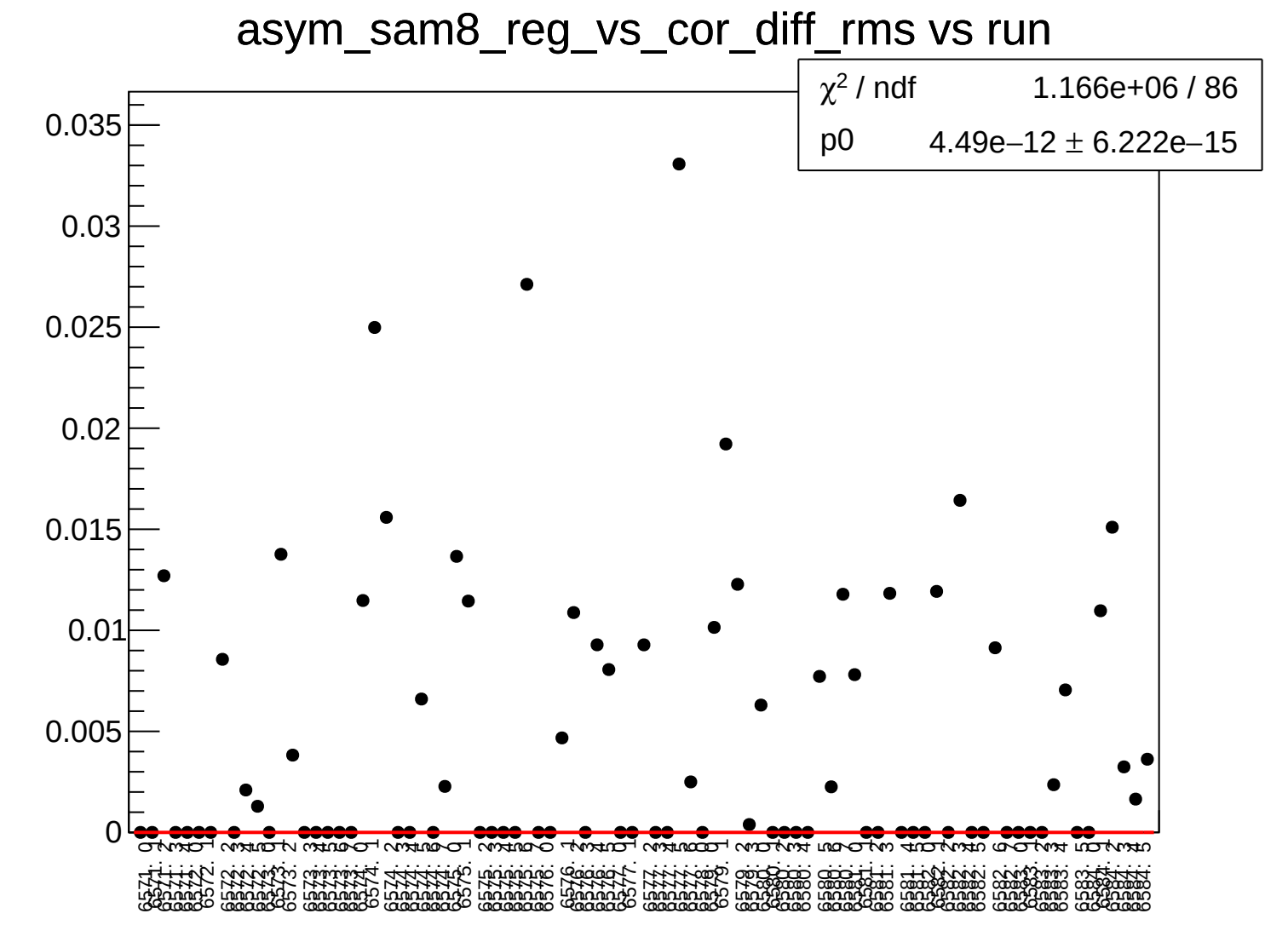

asym_sam8_mean vs run
χ² / ndf 92.55 / 86
p0 376.5 ± 242.8
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 279.6
Std Dev 0
2
1
0
−1
−2

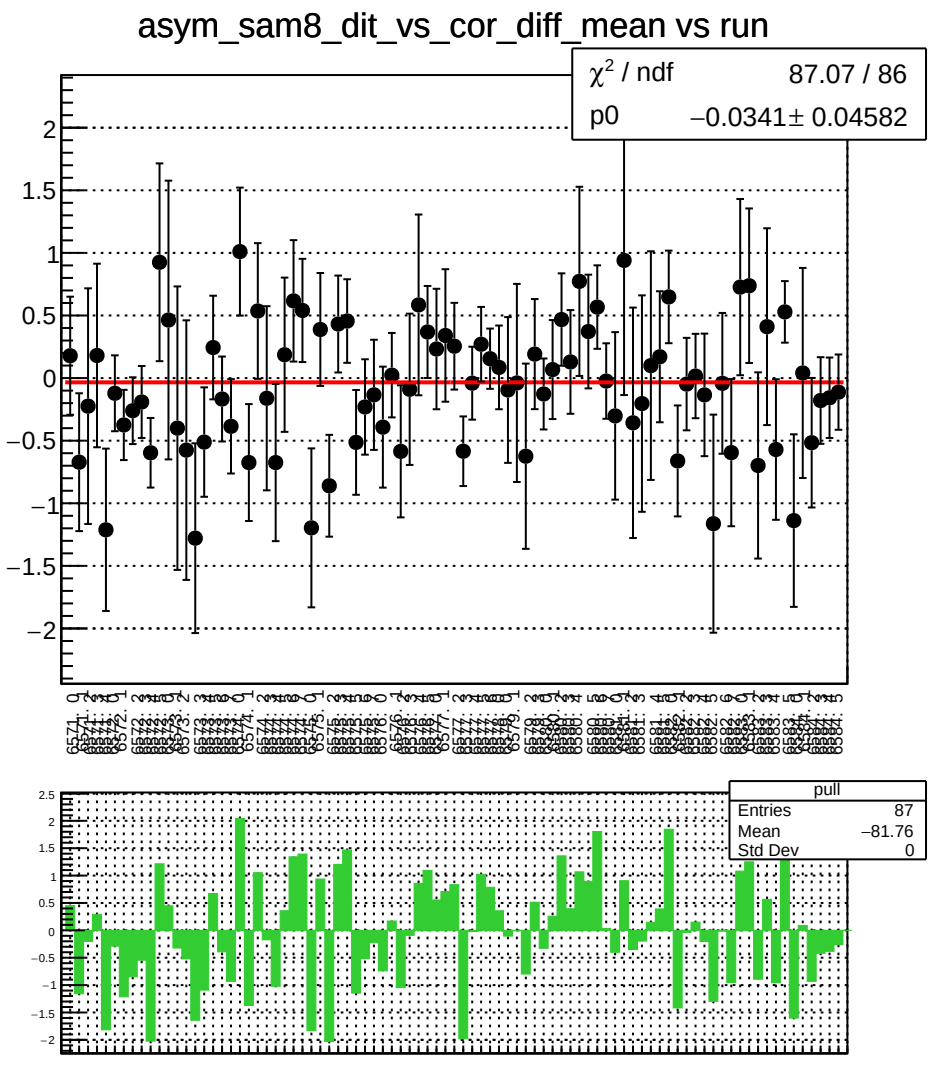

pull1D
Entries 87
Mean 0.007741
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

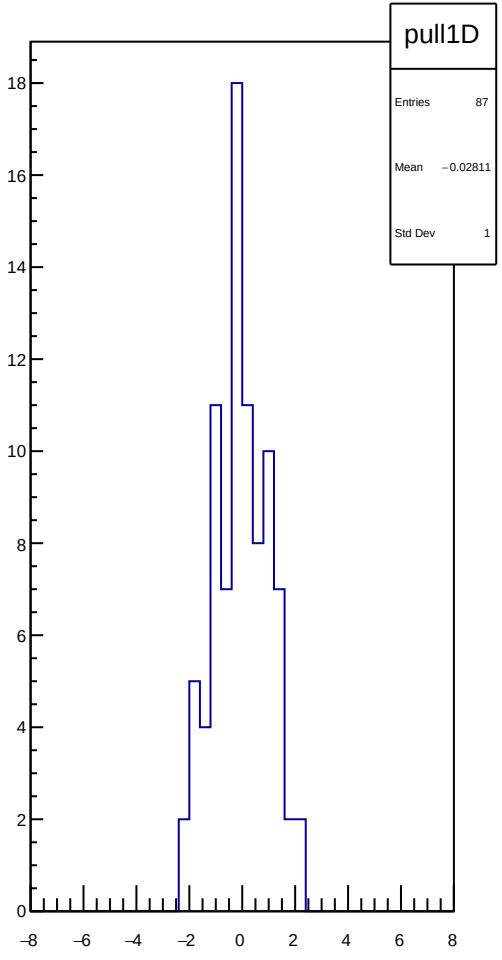

asym_sam8_rms vs run
χ² / ndf 1.376e+04 / 86
p0 222 ± 0.1717
280
260
240
220
200
180

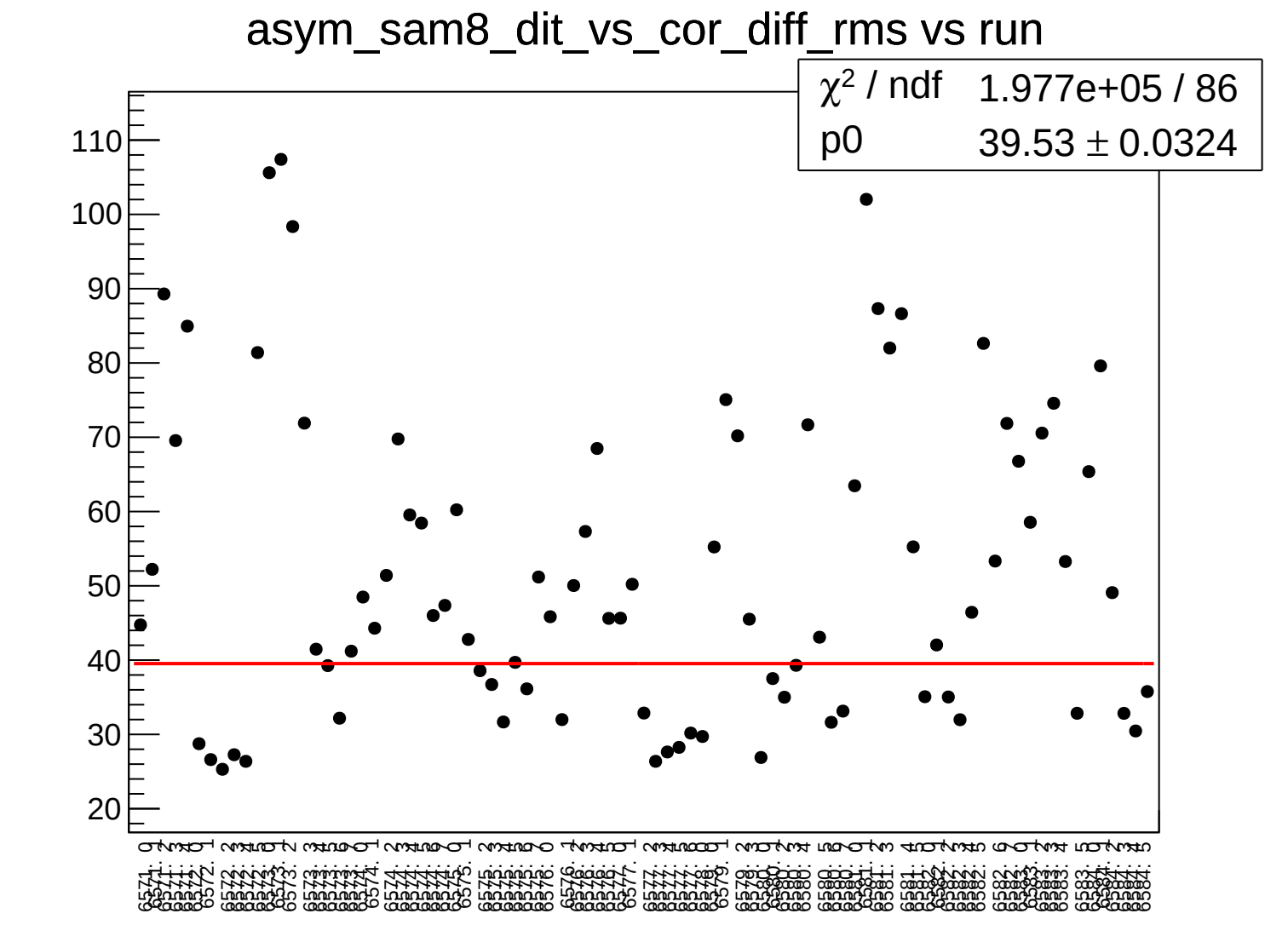

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 100.2 / 86
p0 1.227e−15 ± 8.8e−15
pull
Entries 87
Mean 15.2
Std Dev 15.54

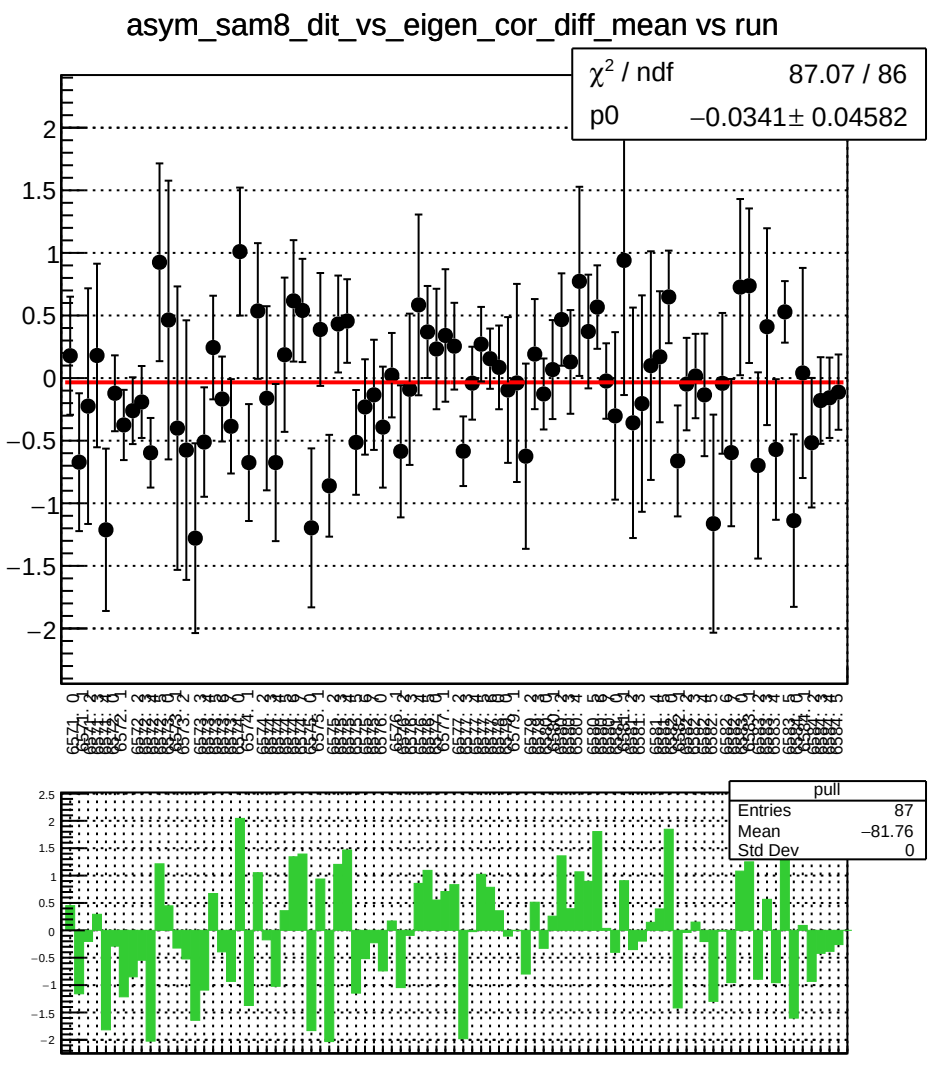

pull1D
Entries 87
Mean −0.1433
Std Dev 1.064

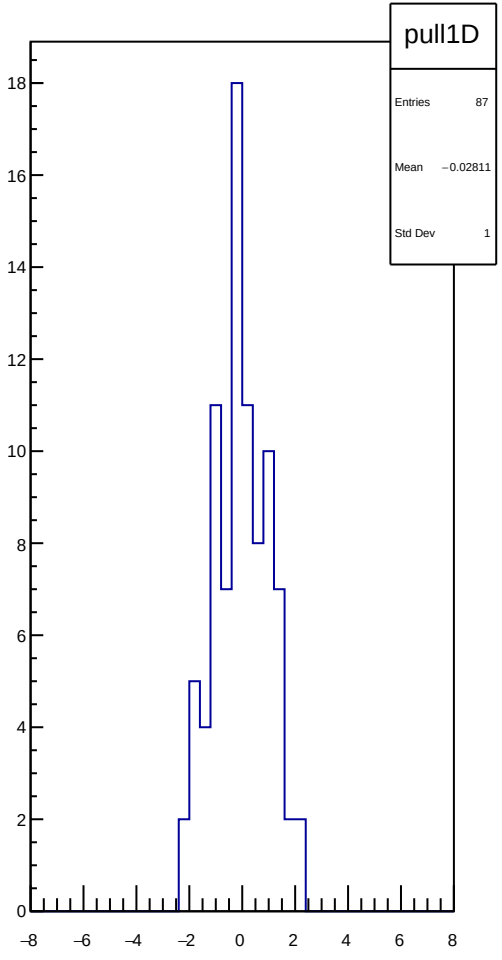

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.166e+06 / 86
p0 4.49e−12 ± 6.222e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

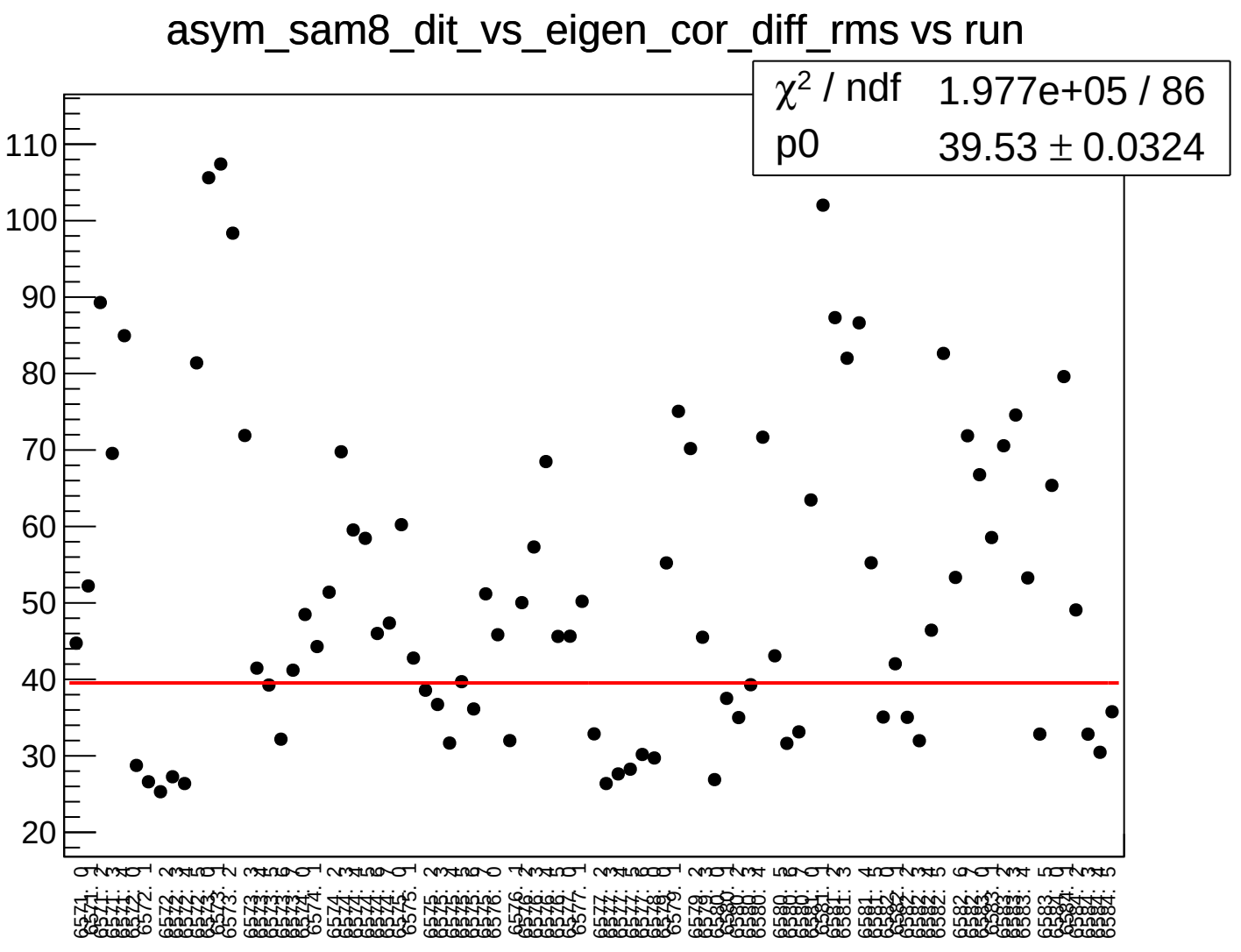

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 87.07 / 86
p0 −0.0341± 0.04582
pull
Entries 87
Mean −81.76
Std Dev 0

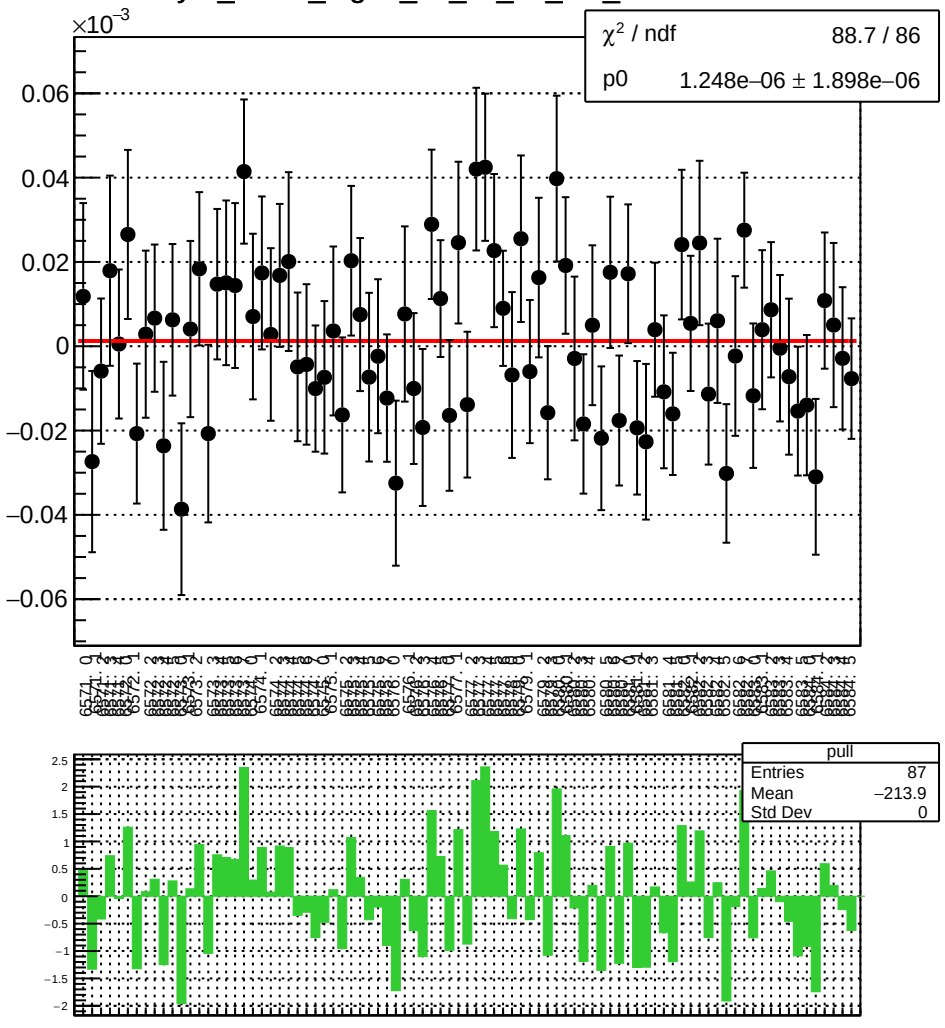

pull1D
Entries 87
Mean −0.02811
Std Dev 1

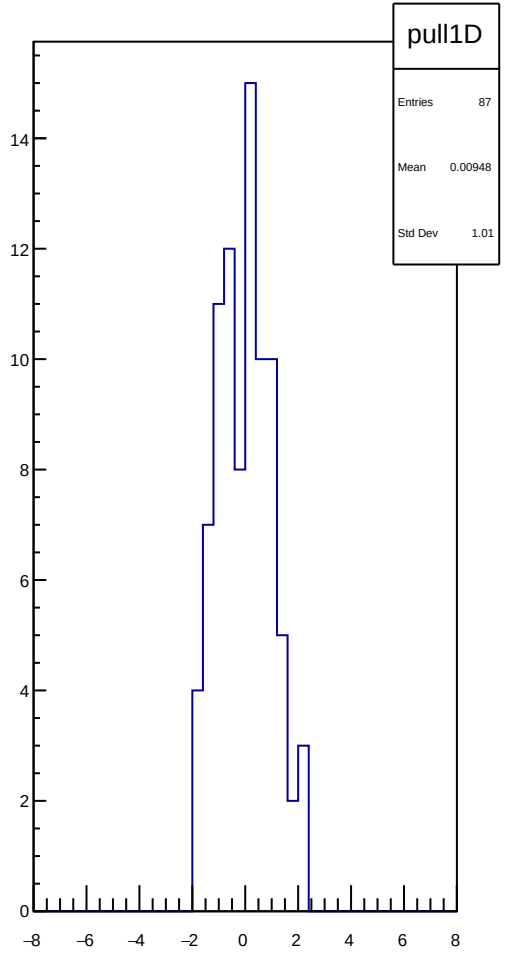

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.977e+05 / 86
p0 39.53 ± 0.0324
110
100
90
80
70
60
50
40
30
20

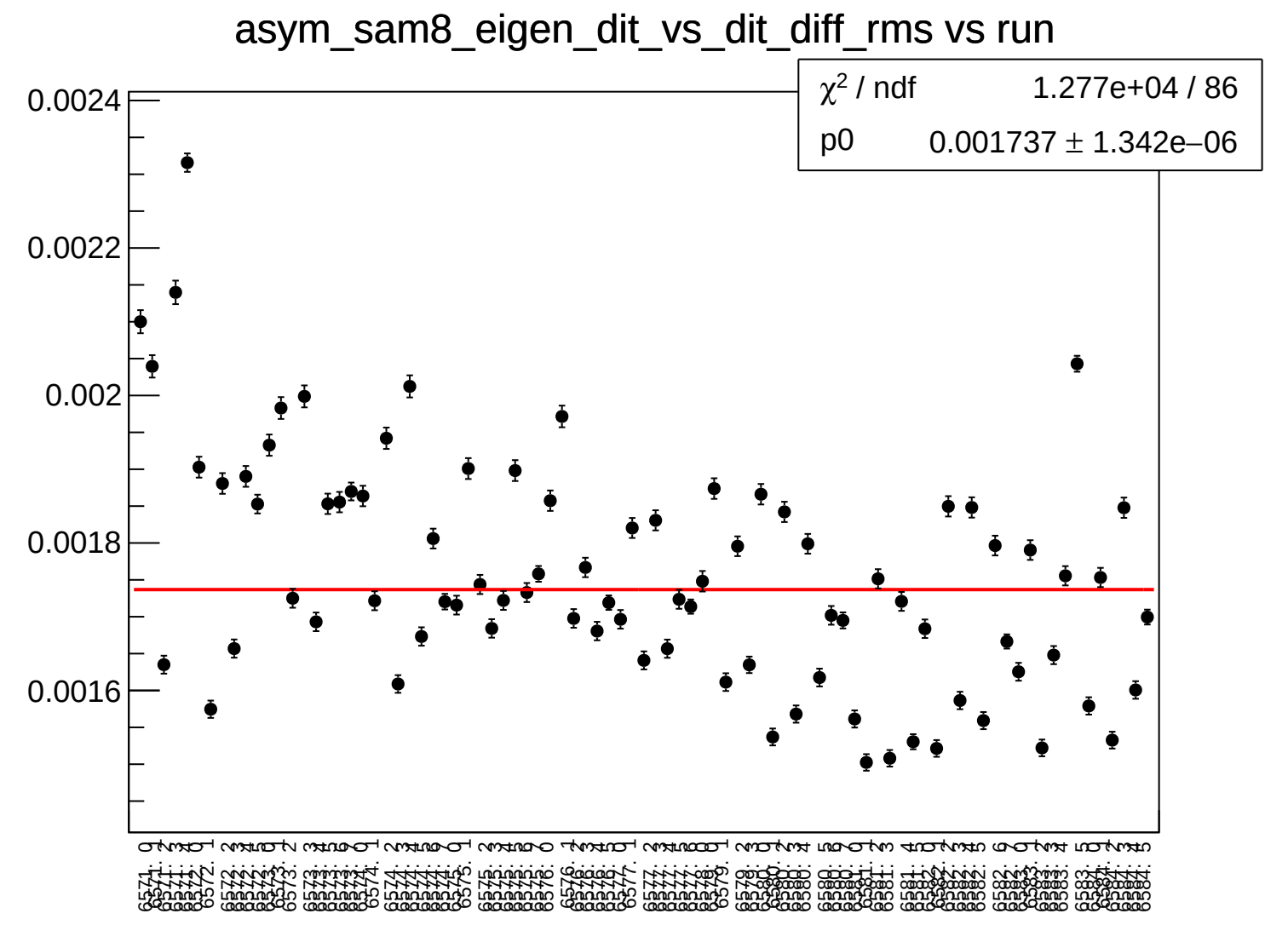

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.07 / 86
p0 −0.0341± 0.04582
pull
Entries 87
Mean −81.76
Std Dev 0

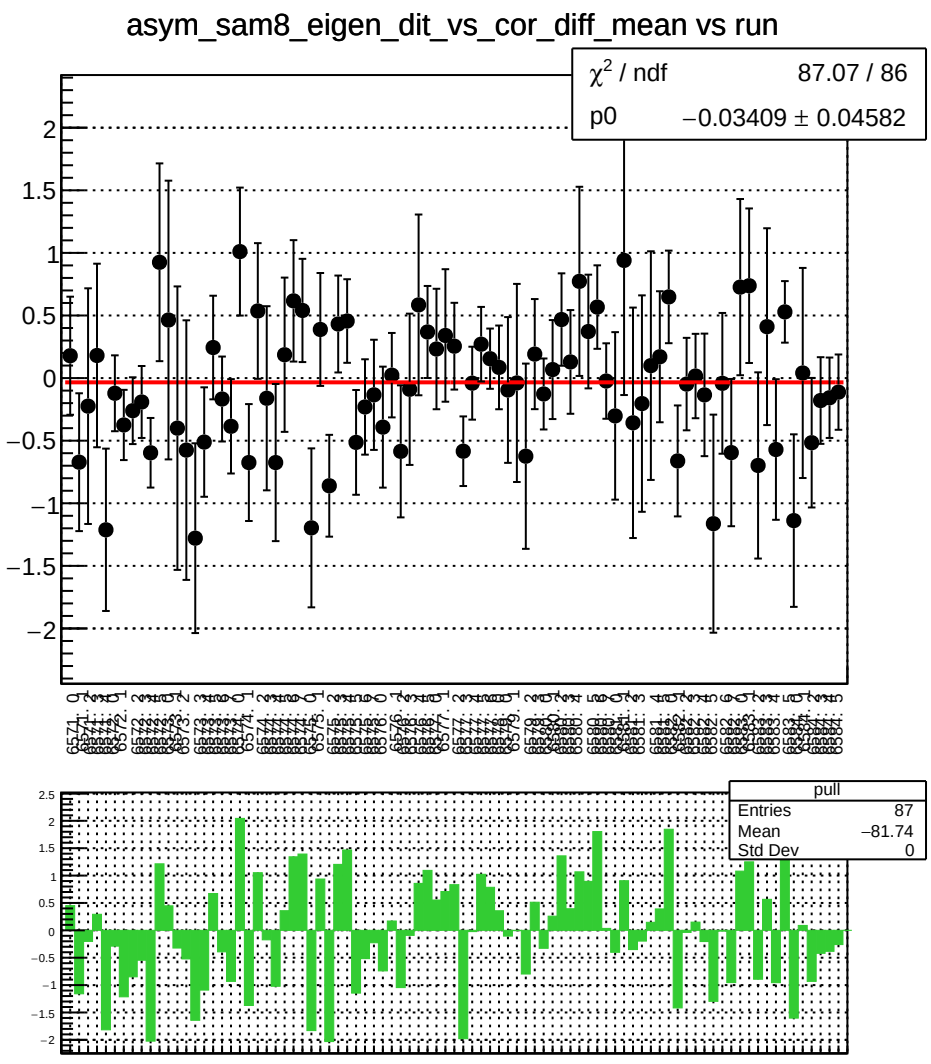

pull1D
Entries 87
Mean −0.02811
Std Dev 1

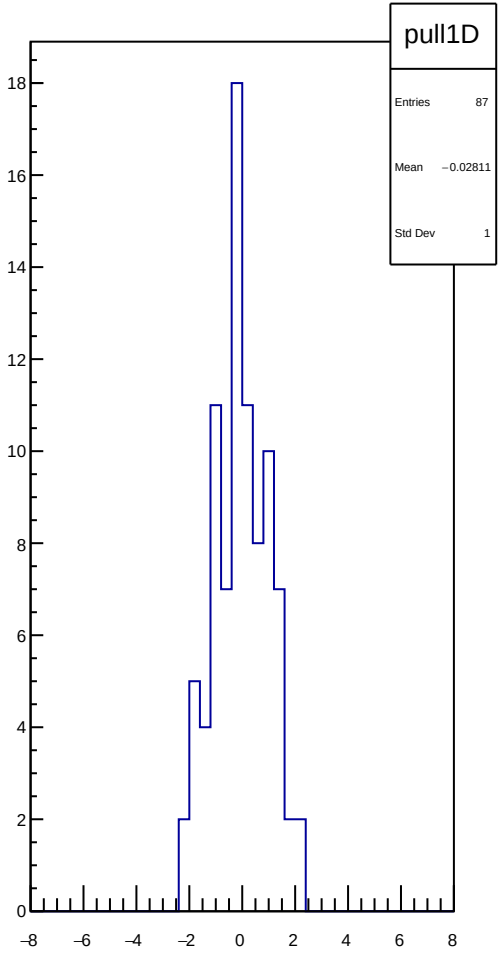

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.977e+05 / 86
p0 39.53 ± 0.0324
110
100
90
80
70
60
50
40
30
20

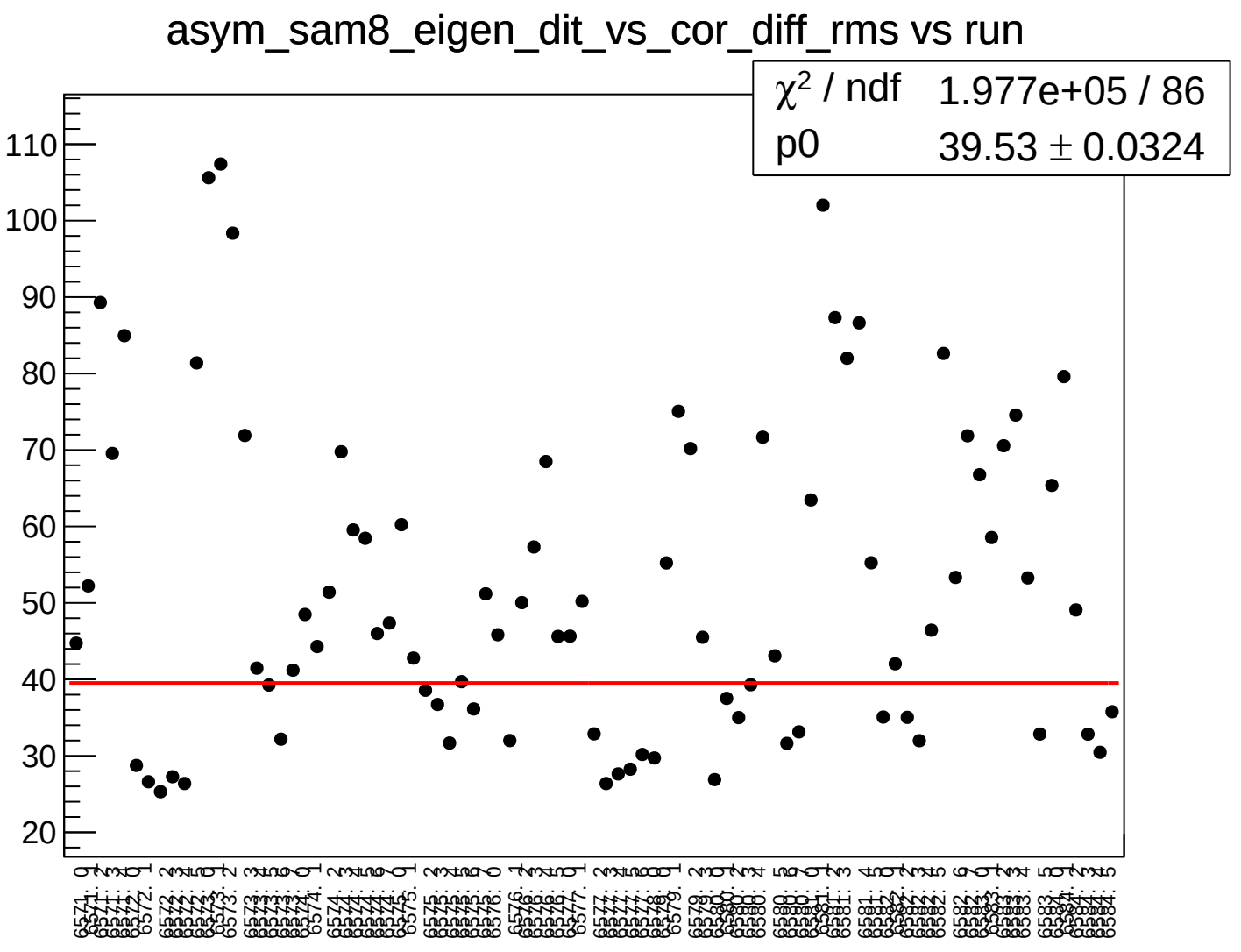

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.7 / 86
p0 1.248e−06 ± 1.898e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean −213.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

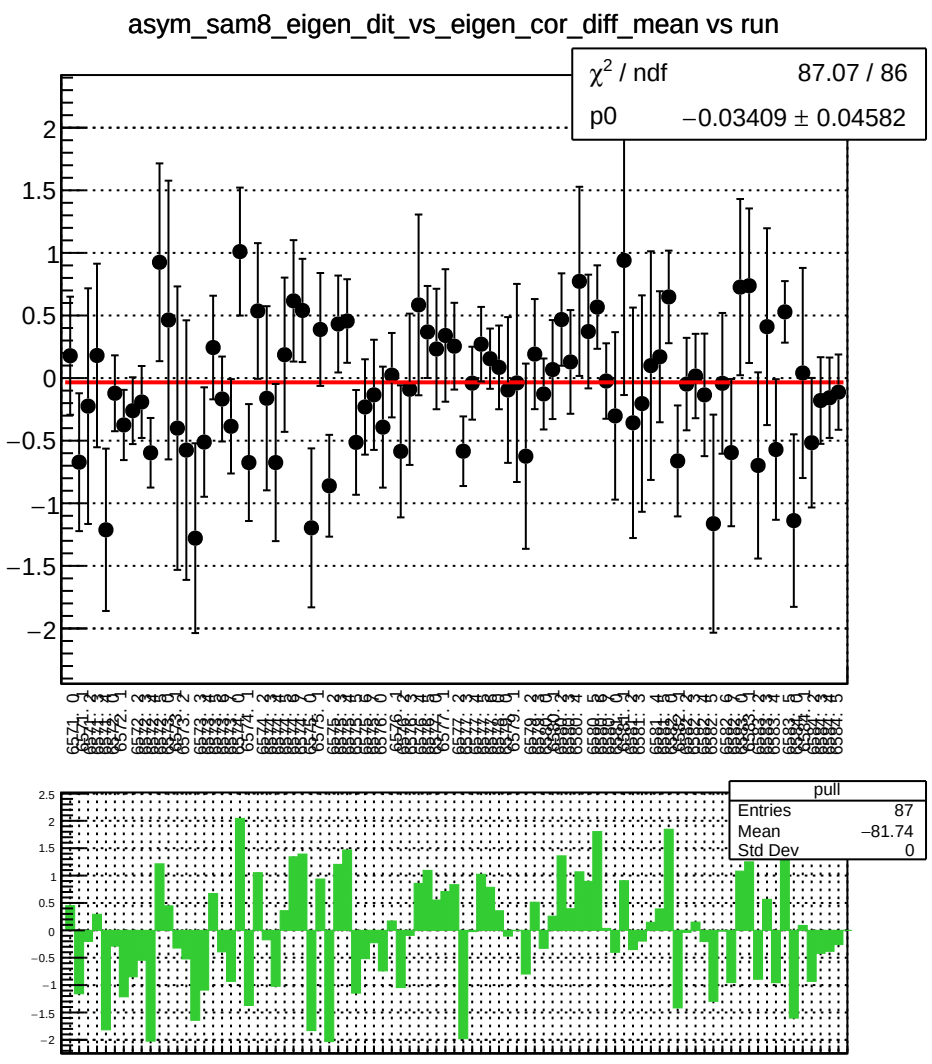

pull1D
Entries 87
Mean 0.00948
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

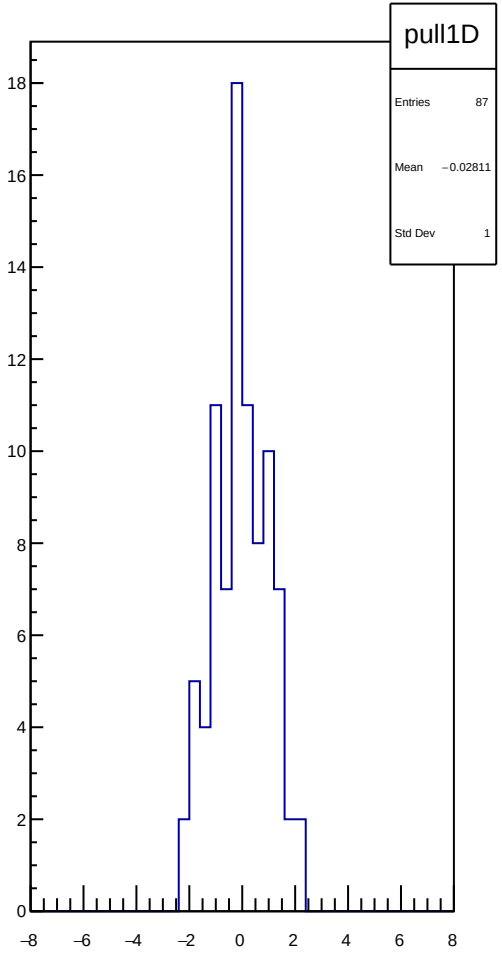

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.277e+04 / 86
p0 0.001737 ± 1.342e−06
0.0024
0.0022
0.002
0.0018
0.0016

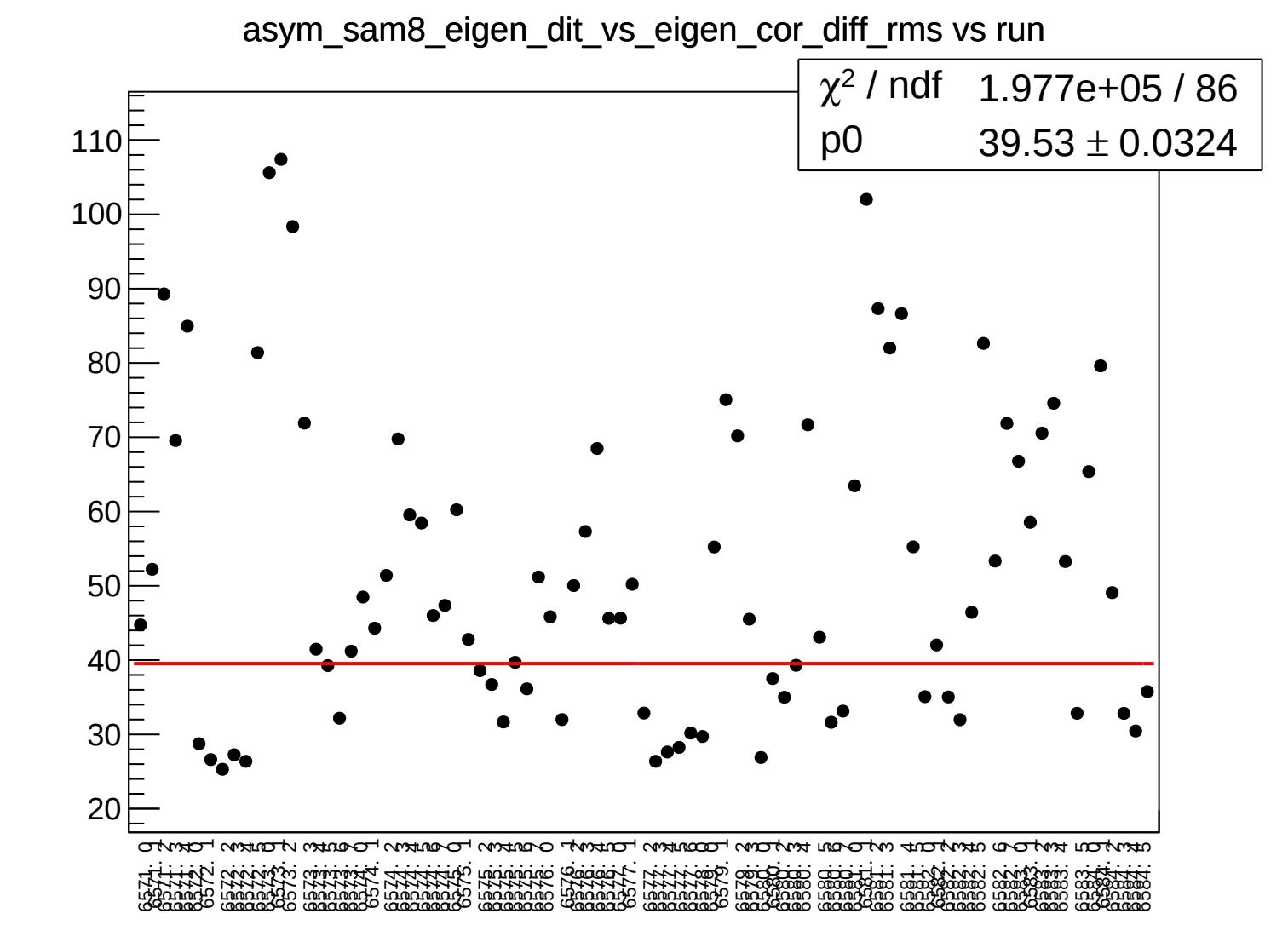

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.07 / 86
p0 −0.03409 ± 0.04582
pull
Entries 87
Mean −81.74
Std Dev 0

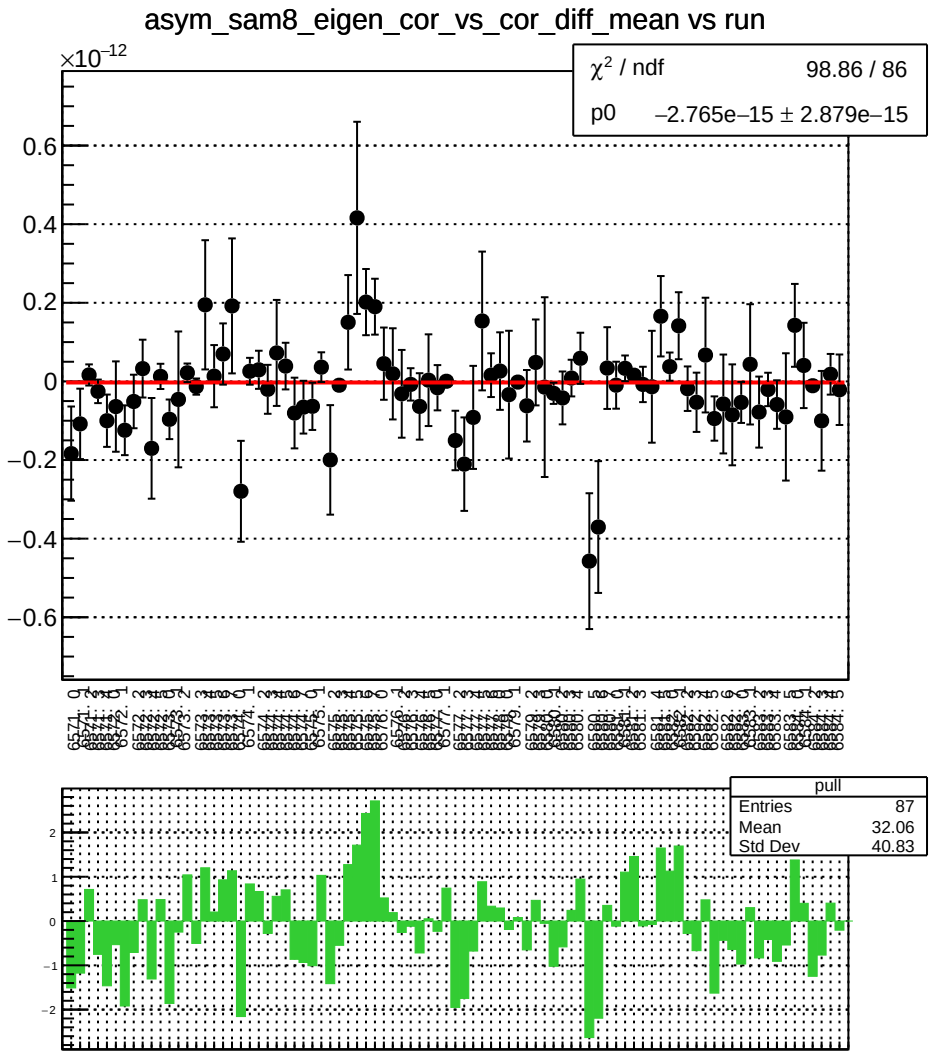

pull1D
Entries 87
Mean −0.02811
Std Dev 1

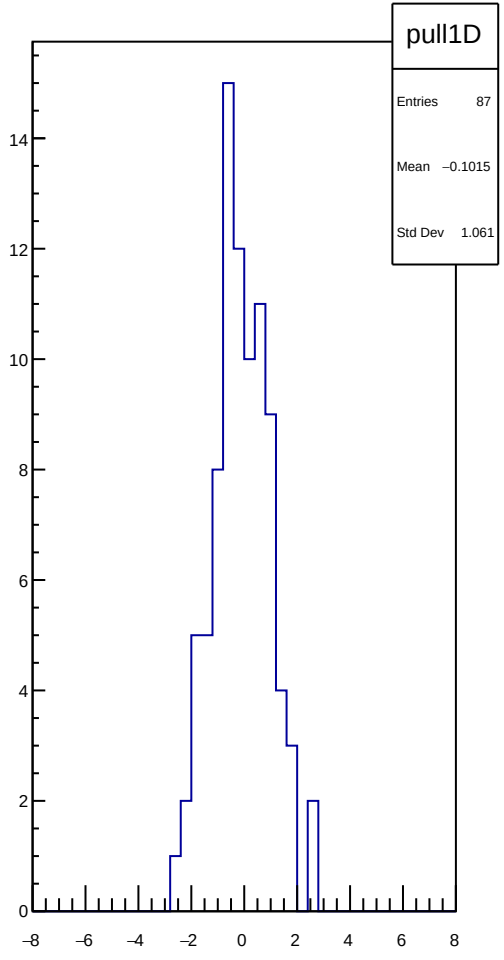

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.977e+05 / 86
p0 39.53 ± 0.0324
110
100
90
80
70
60
50
40
30
20

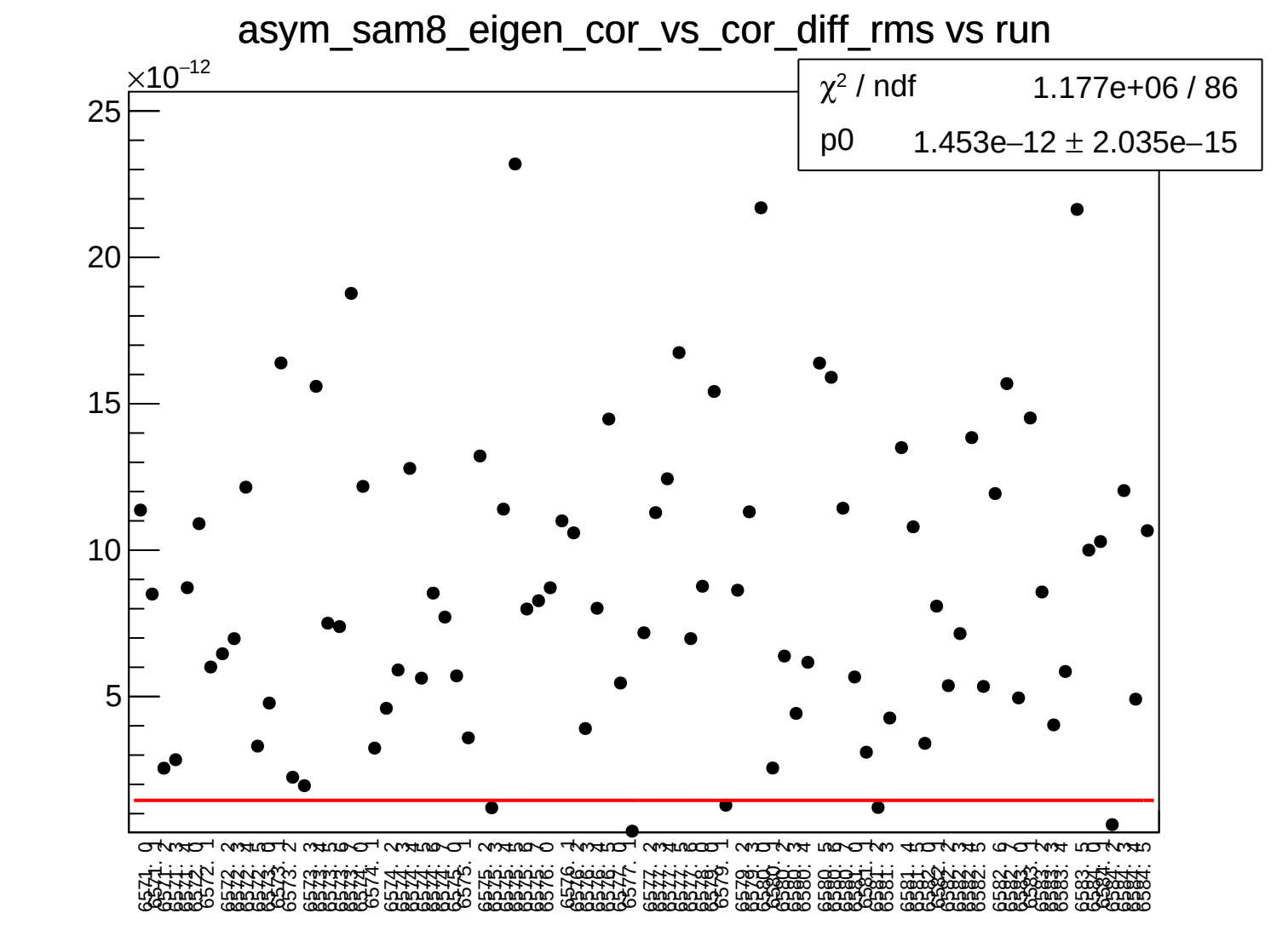

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.07 / 86
p0 −0.03409 ± 0.04582
pull
Entries 87
Mean −81.74
Std Dev 0

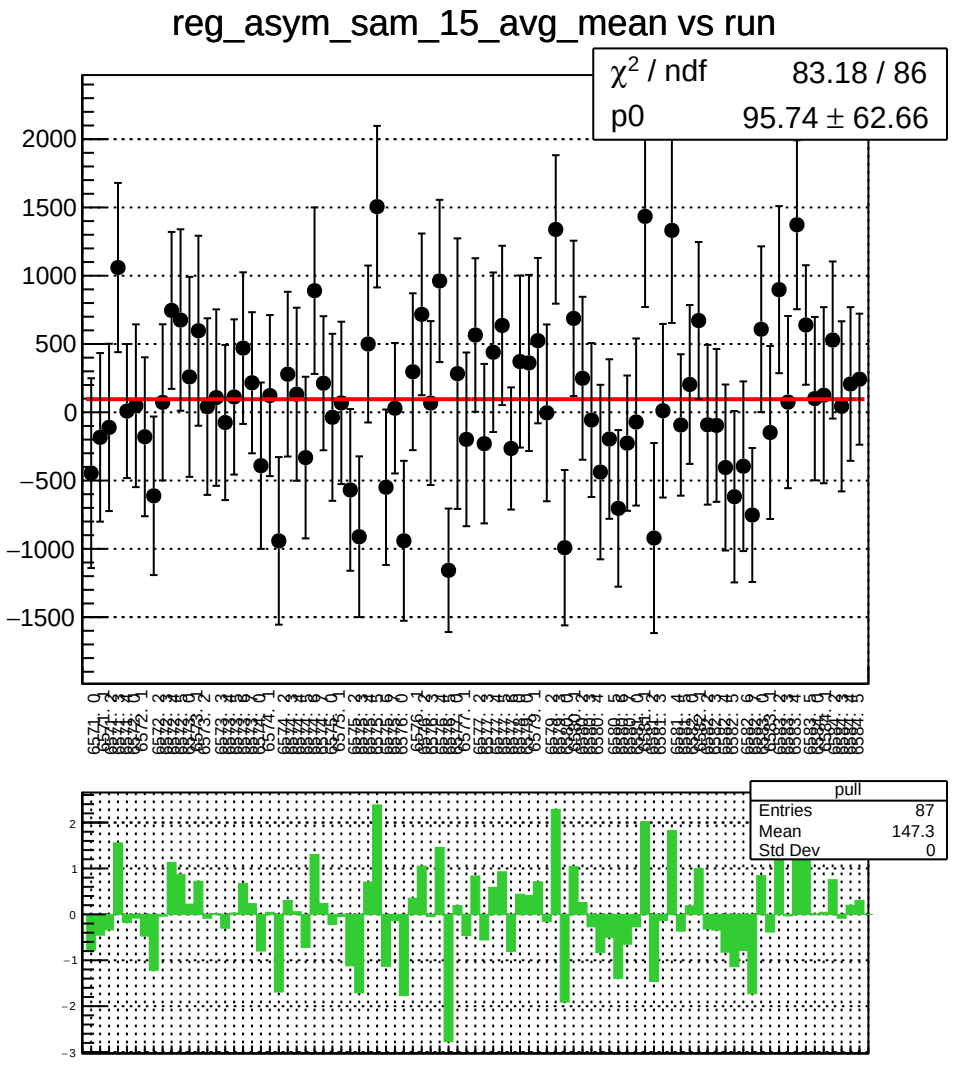

pull1D
Entries 87
Mean −0.02811
Std Dev 1

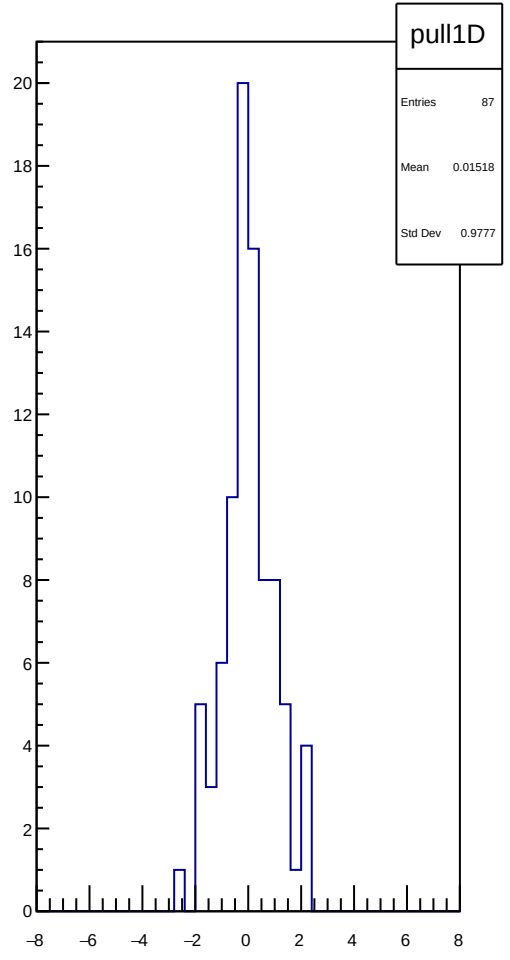

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.977e+05 / 86
p0 39.53 ± 0.0324
110
100
90
80
70
60
50
40
30
20

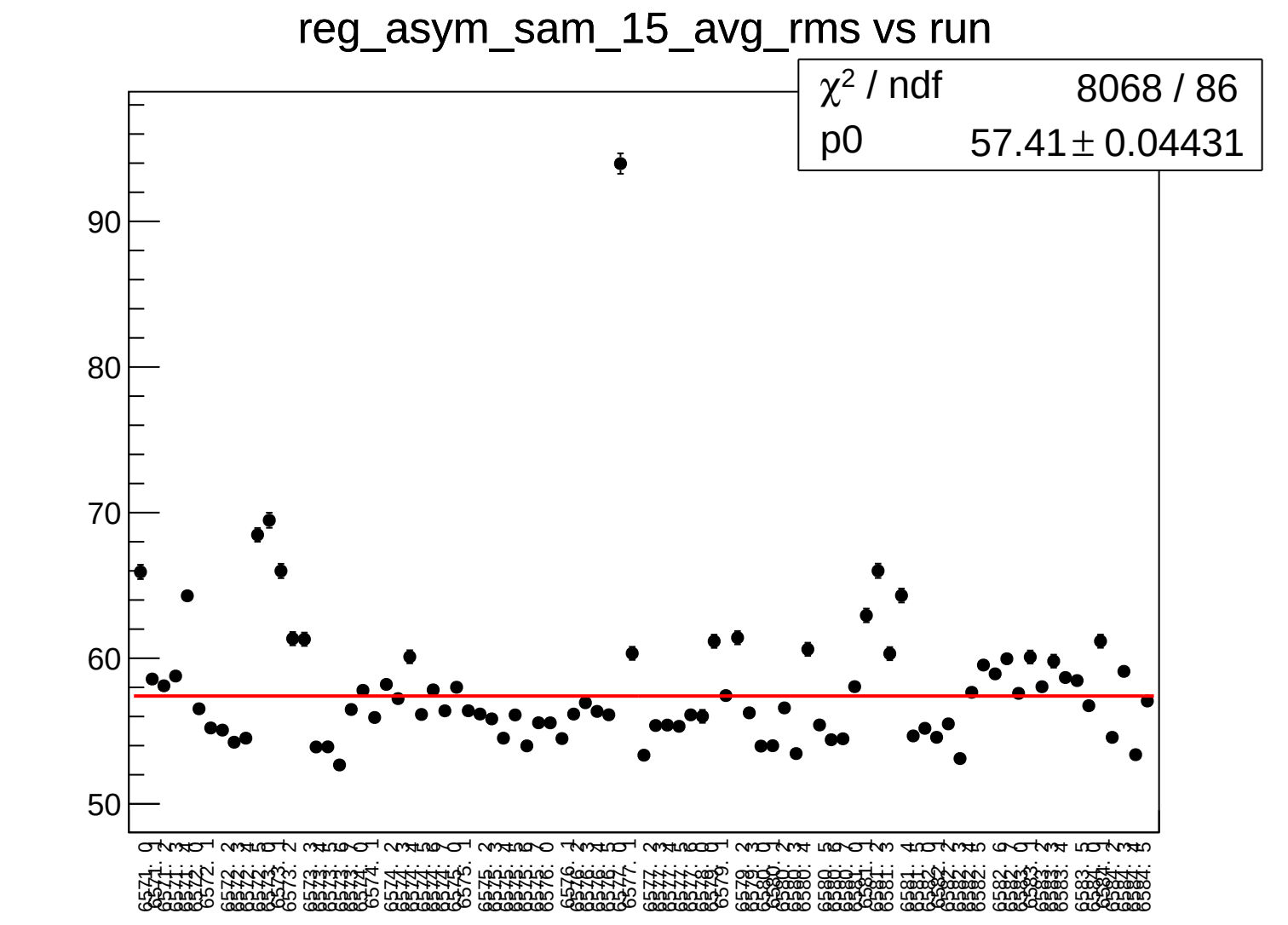

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.86 / 86
p0 −2.765e−15 ± 2.879e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 87
Mean 32.06
Std Dev 40.83
2
1
0
−1
−2

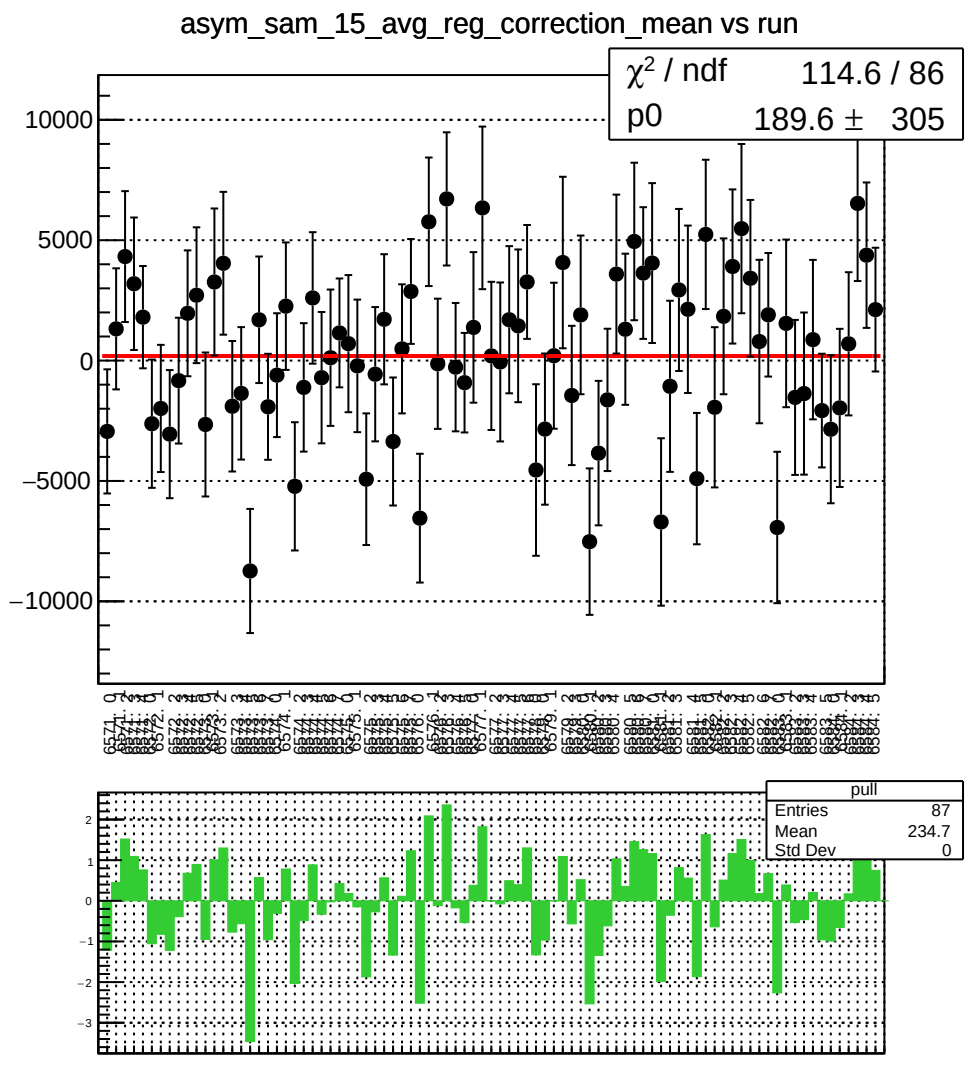

pull1D
Entries 87
Mean −0.1015
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

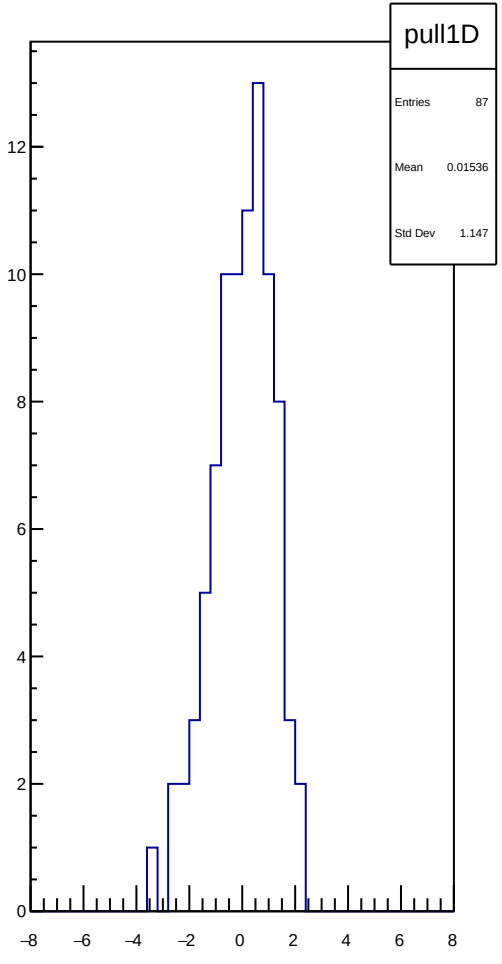

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.177e+06 / 86
p0 1.453e−12 ± 2.035e−15
25
20
15
10
5

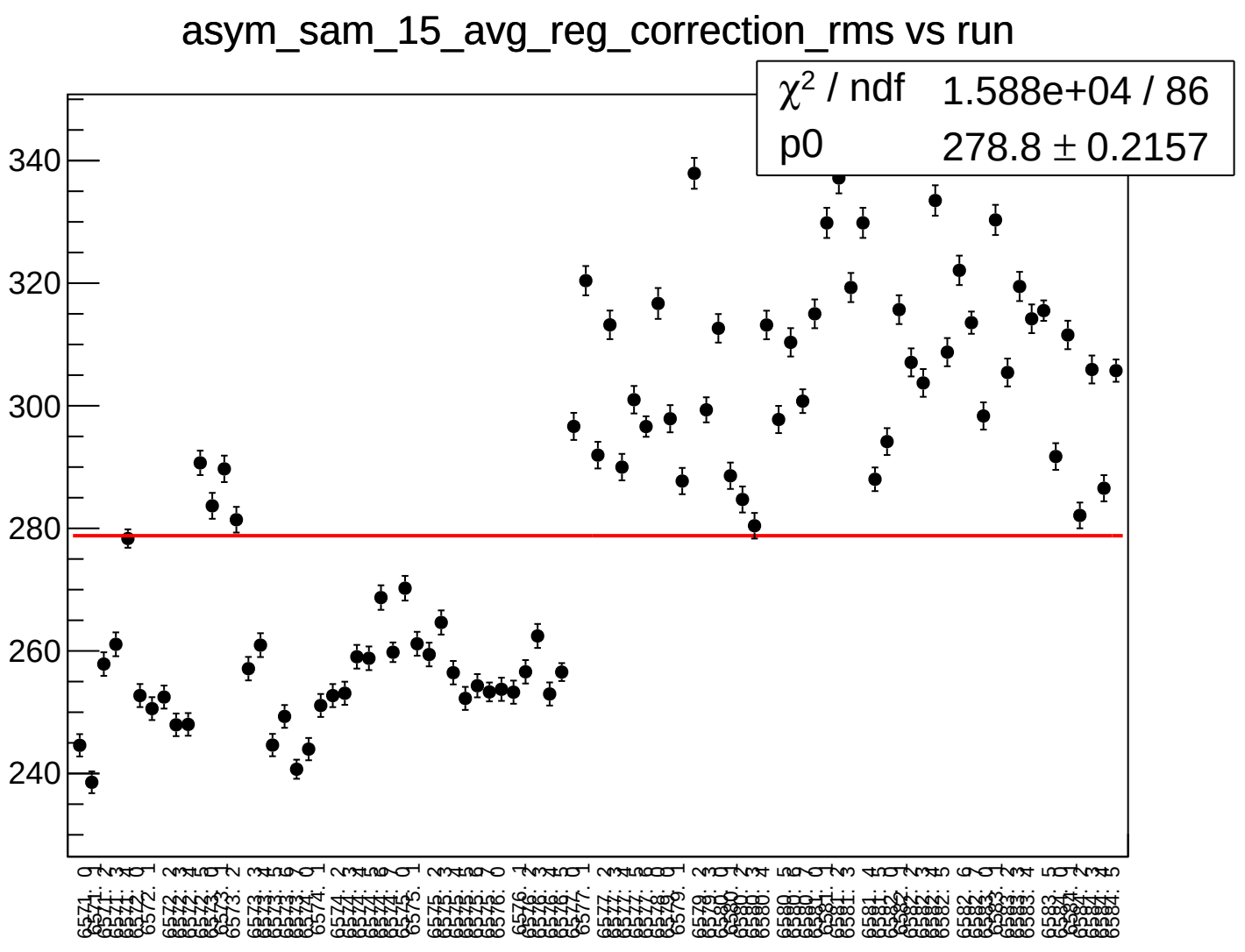

reg_asym_sam_15_avg_mean vs run
χ² / ndf 83.18 / 86
p0 95.74 ± 62.66
pull
Entries 87
Mean 147.3
Std Dev 0

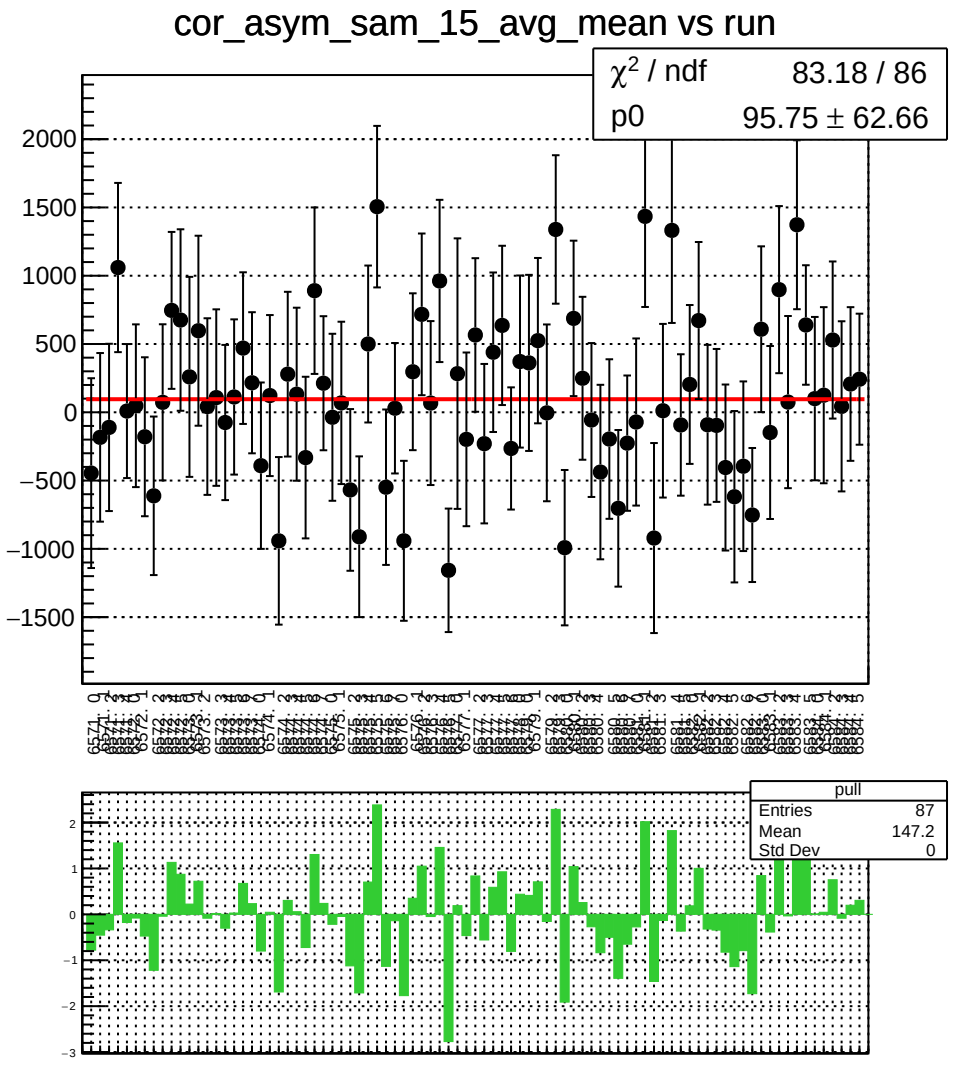

pull1D
Entries 87
Mean 0.01518
Std Dev 0.9777

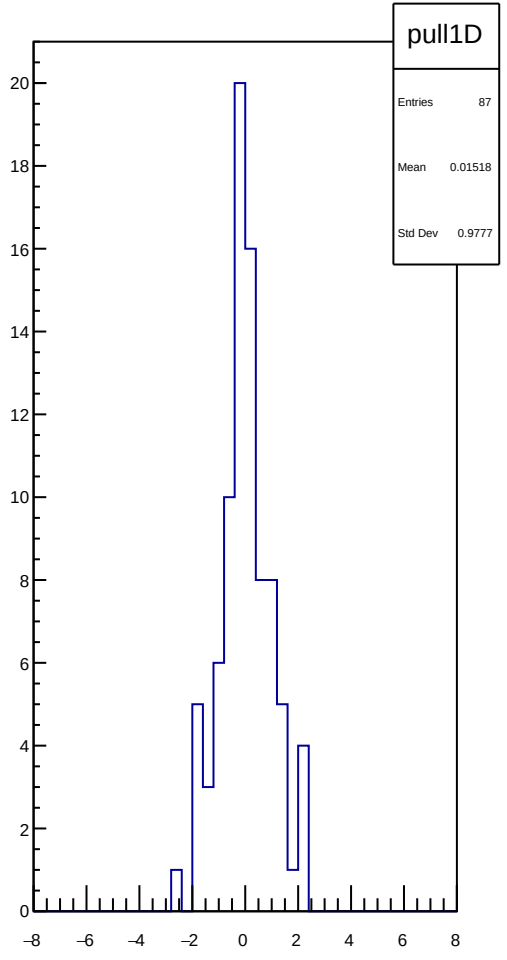

reg_asym_sam_15_avg_rms vs run
χ² / ndf 8068 / 86
p0 57.41 ± 0.04431
90
80
70
60
50

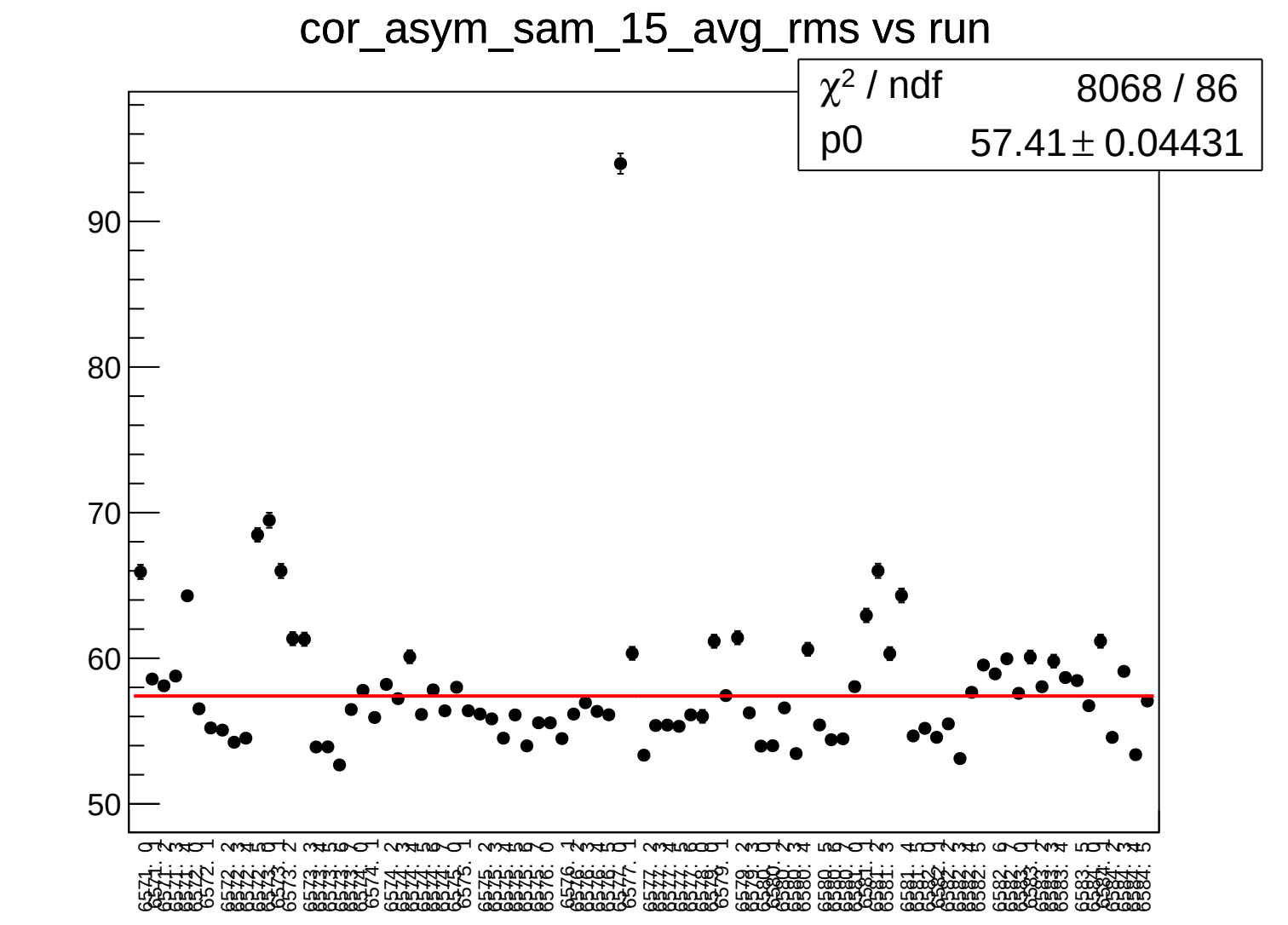

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 114.6 / 86
p0 189.6 ± 305
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 234.7
Std Dev 0
2
1
0
−1
−2
−3

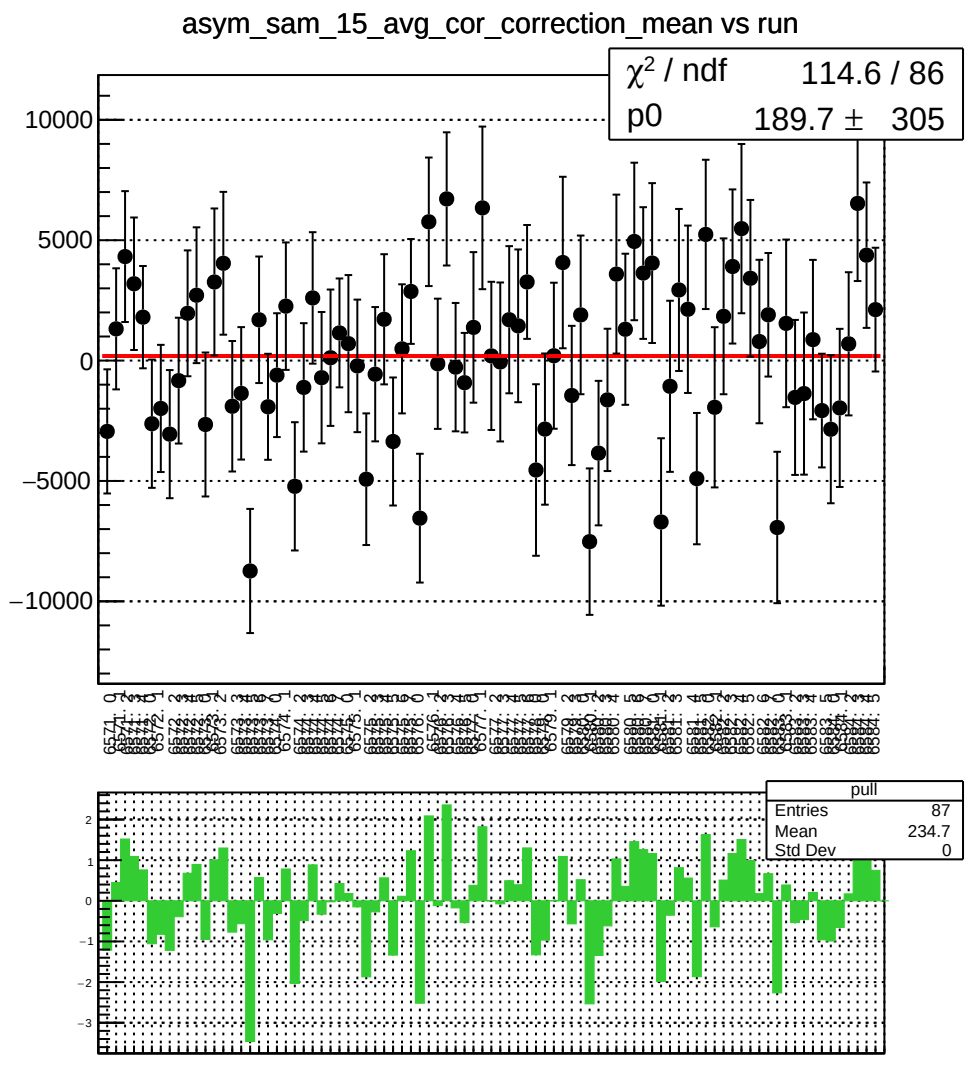

pull1D
Entries 87
Mean 0.01536
Std Dev 1.147
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

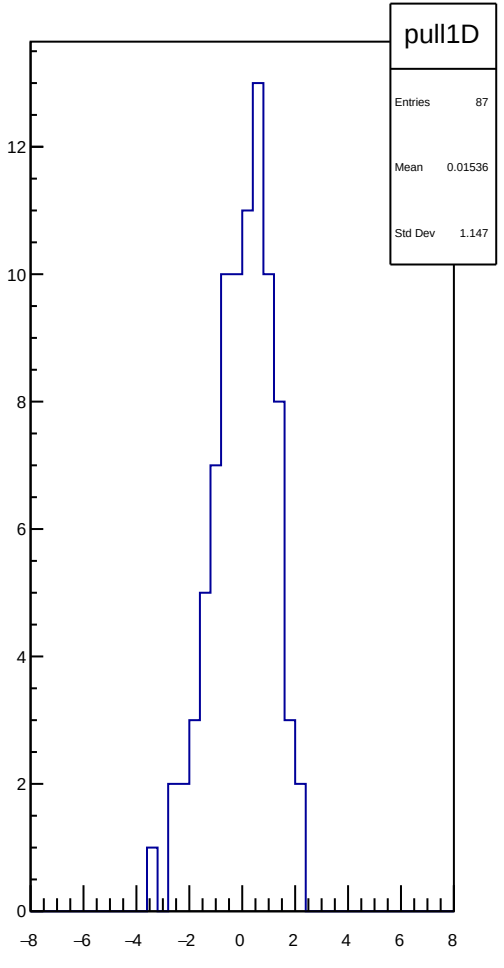

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.588e+04 / 86
p0 278.8 ± 0.2157
340
320
300
280
260
240

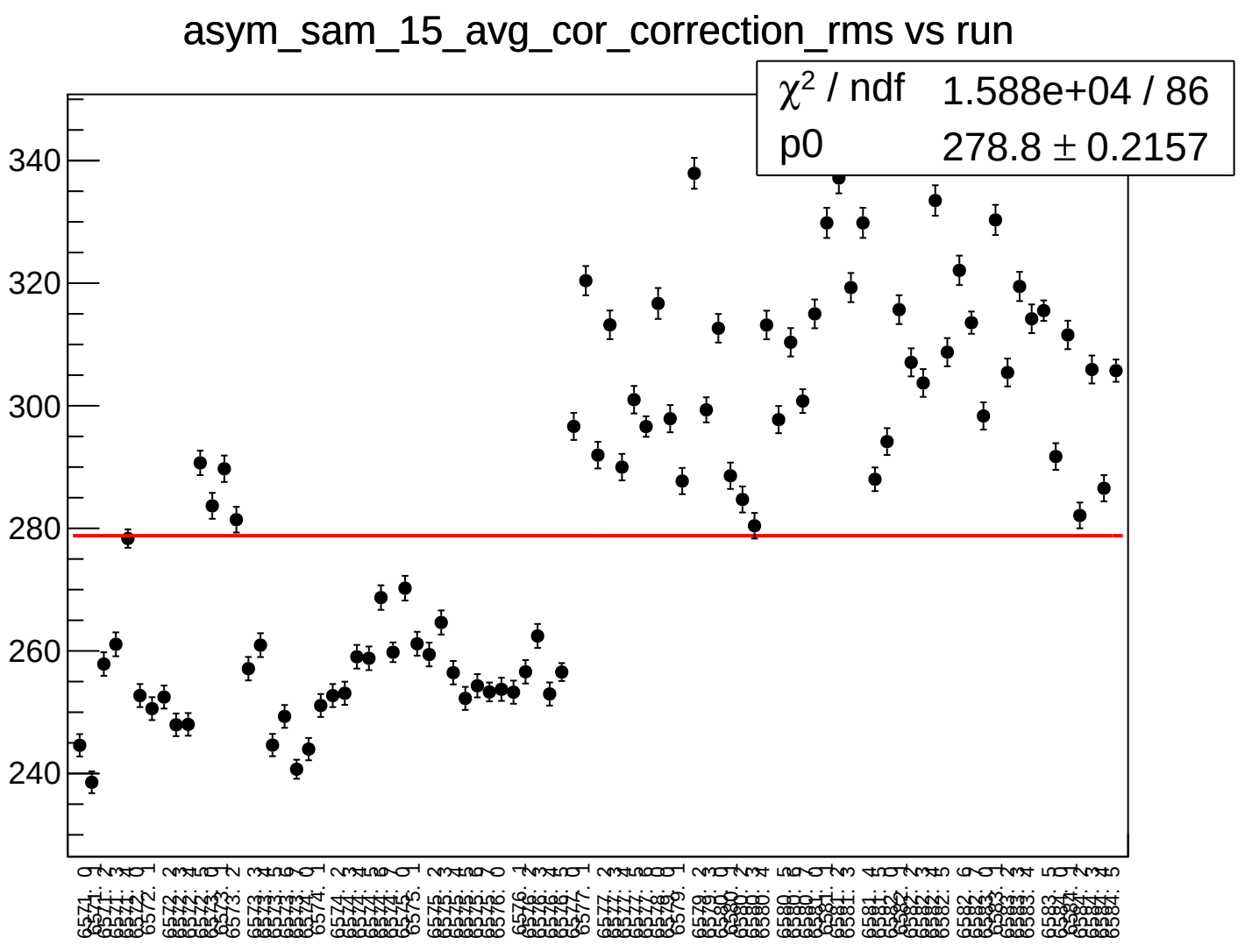

cor_asym_sam_15_avg_mean vs run
χ² / ndf 83.18 / 86
p0 95.75 ± 62.66
pull
Entries 87
Mean 147.2
Std Dev 0

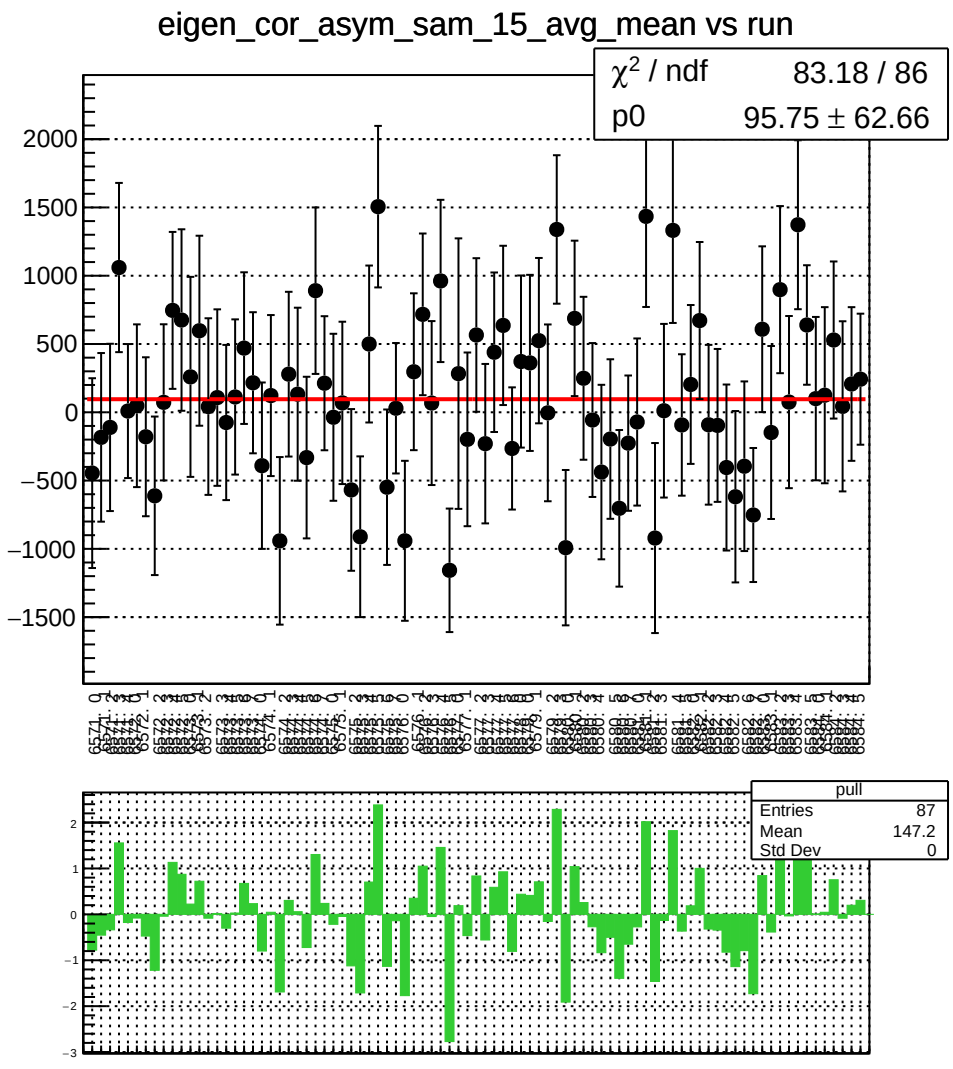

pull1D
Entries 87
Mean 0.01518
Std Dev 0.9777

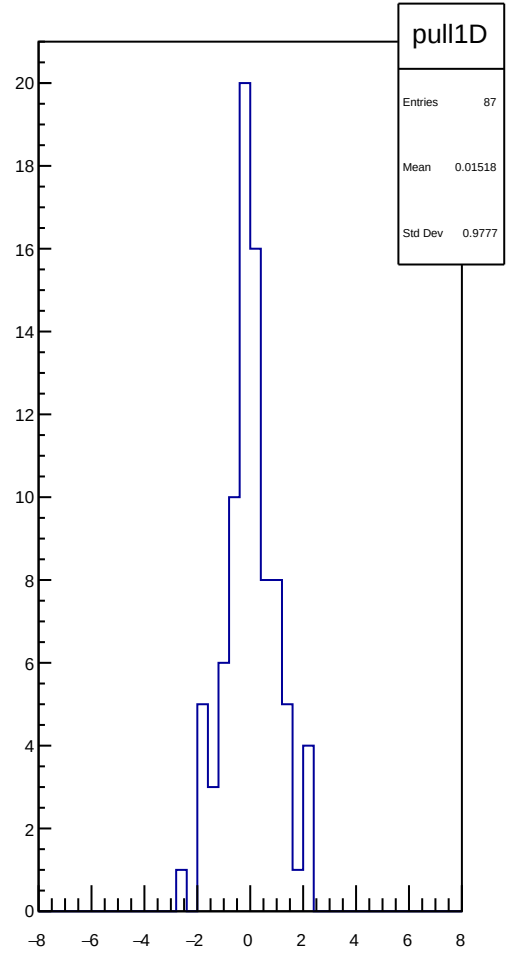

cor_asym_sam_15_avg_rms vs run
χ² / ndf 8068 / 86
p0 57.41 ± 0.04431
90
80
70
60
50

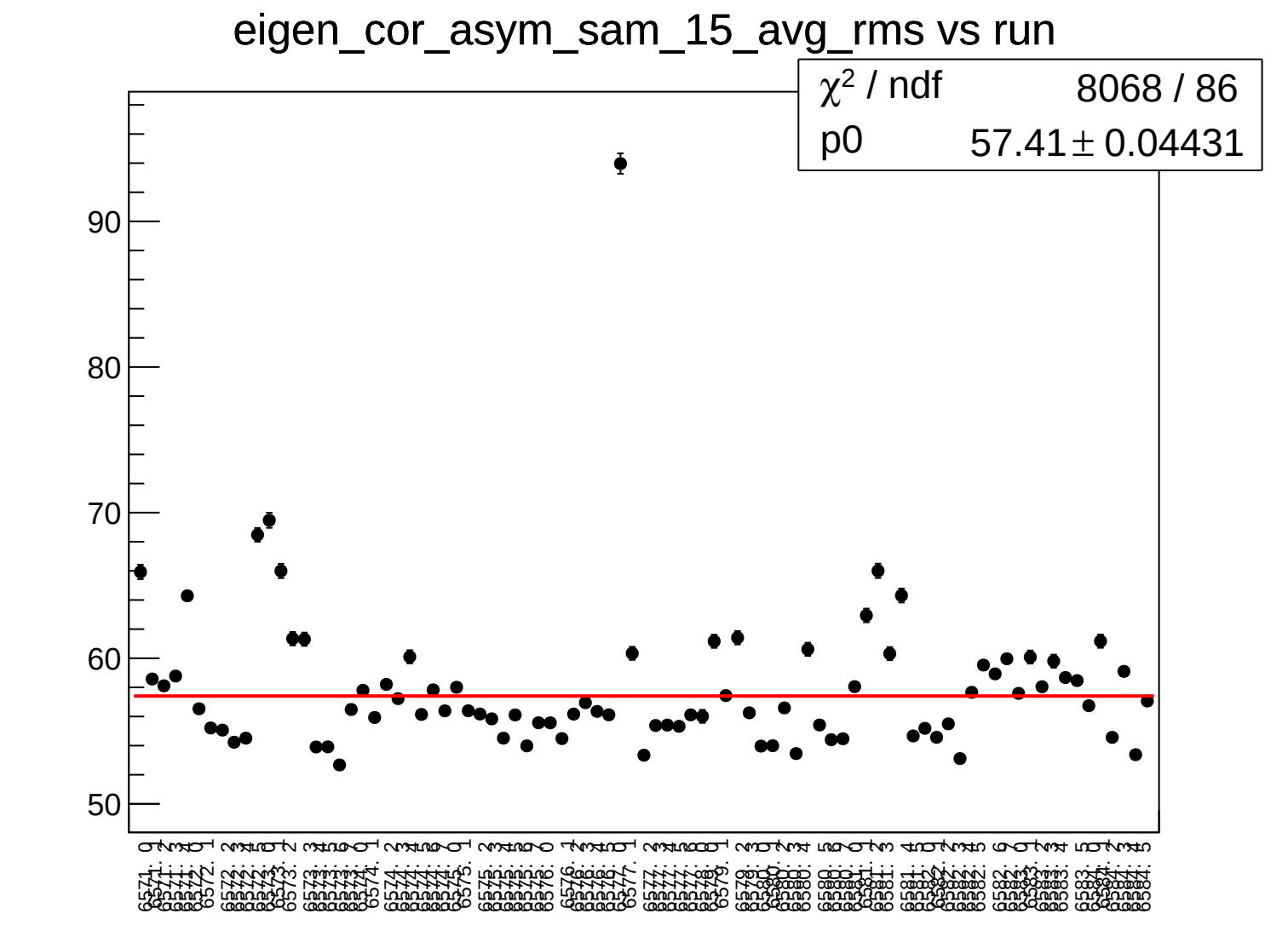

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 114.6 / 86
p0 189.7 ± 305
pull
Entries 87
Mean 234.7
Std Dev 0

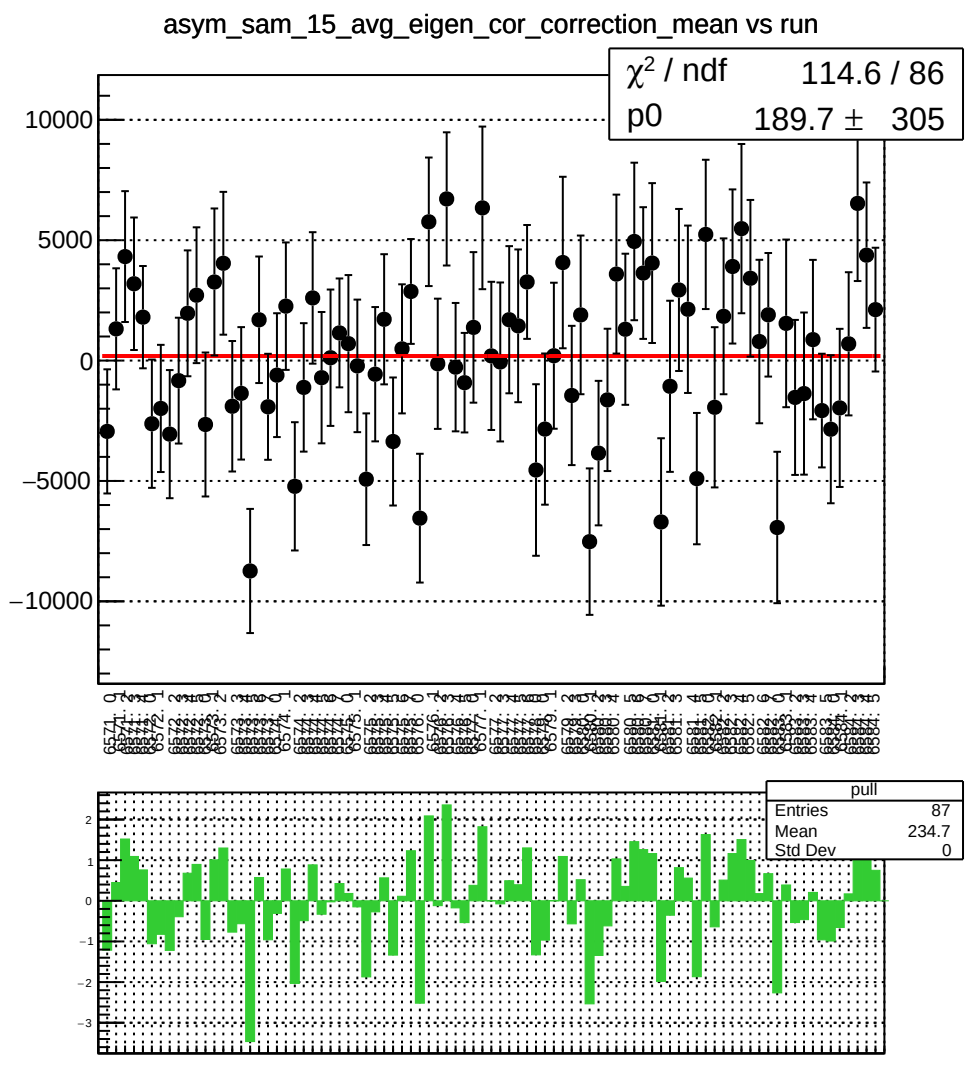

pull1D
Entries 87
Mean 0.01536
Std Dev 1.147

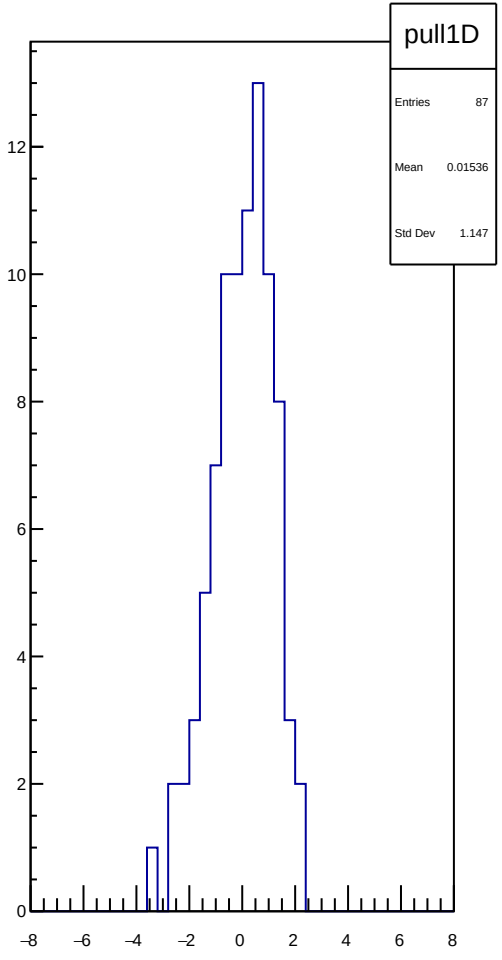

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.588e+04 / 86
p0 278.8 ± 0.2157
340
320
300
280
260
240

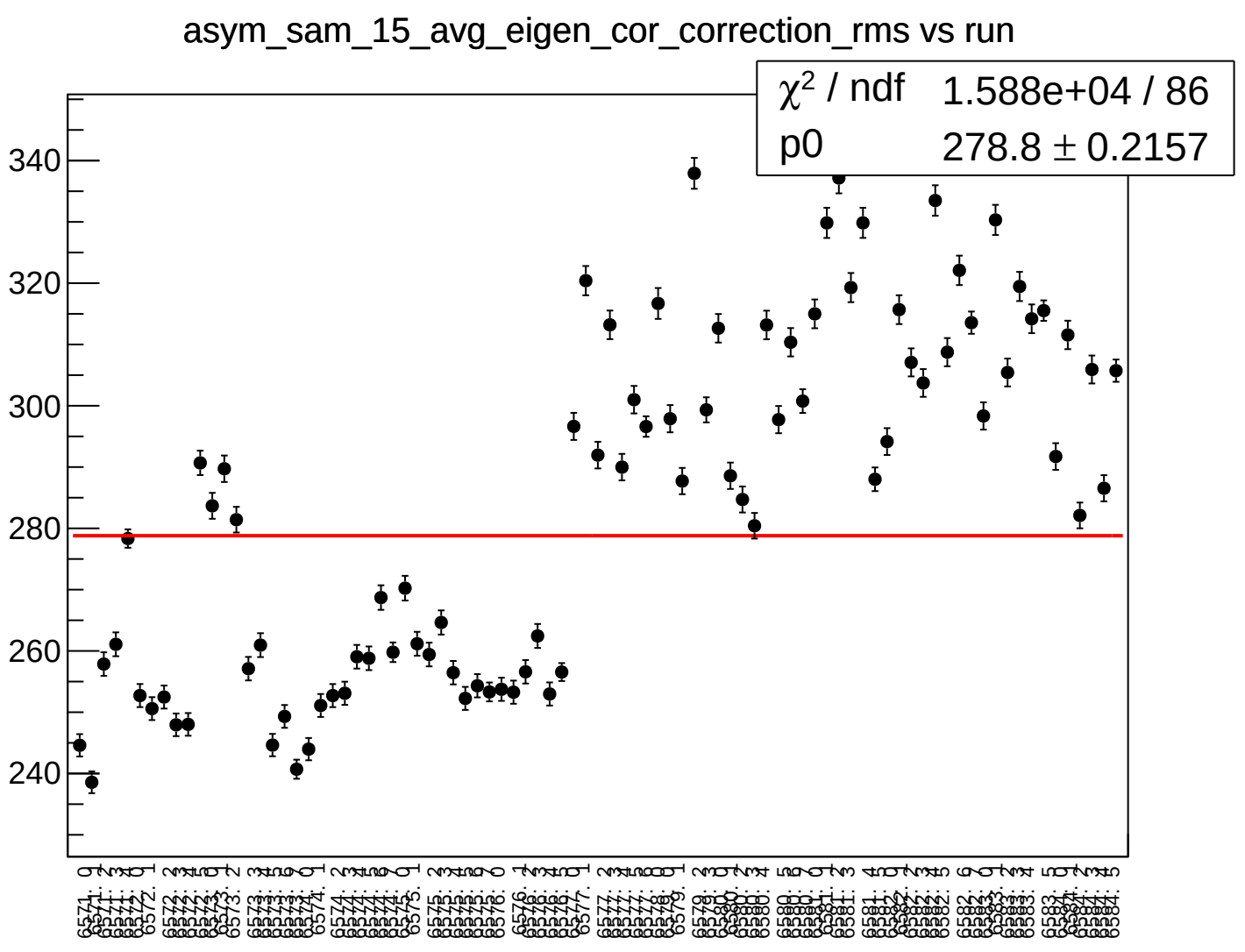

eigen_cor_asym_sam_15_avg_mean vs run
χ^2 / ndf 83.18 / 86
p0 95.75 ± 62.66
pull
Entries 87
Mean 147.2
Std Dev 0

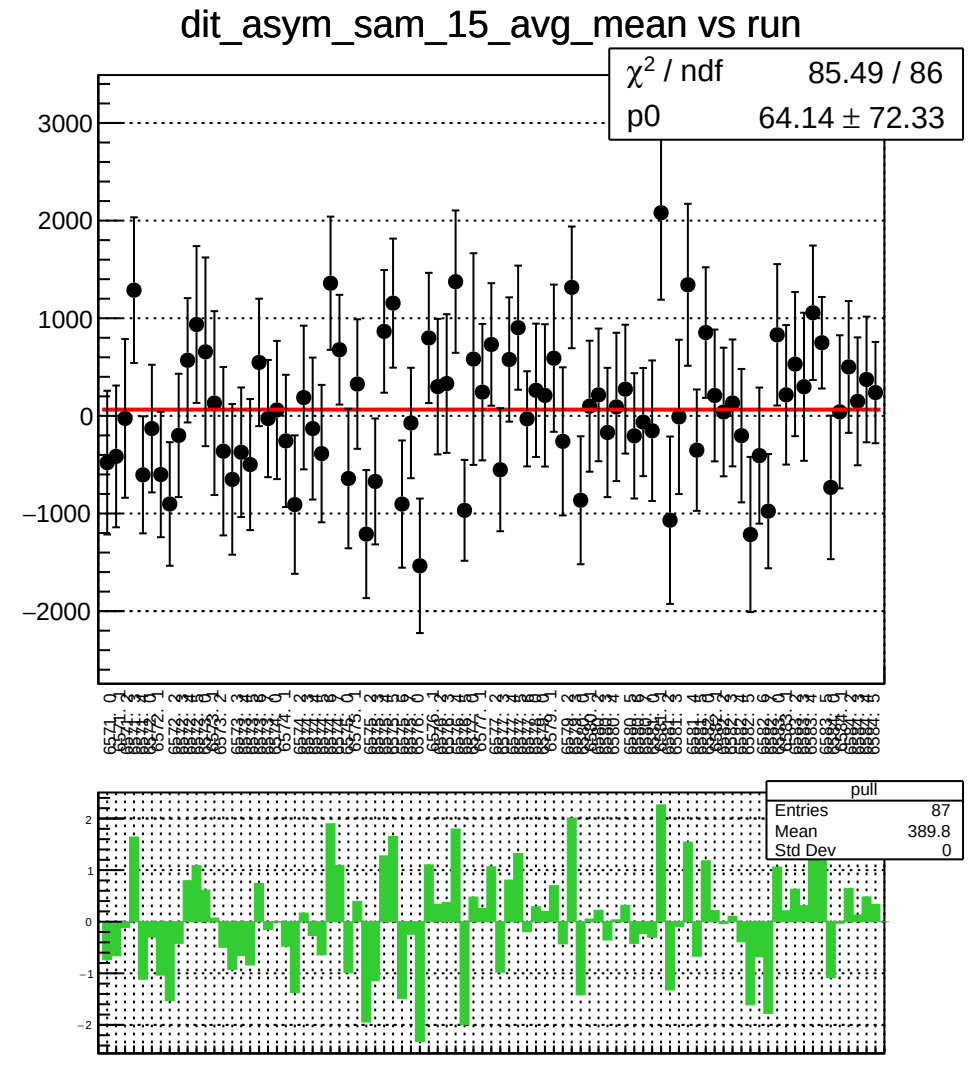

pull1D
Entries 87
Mean 0.01518
Std Dev 0.9777

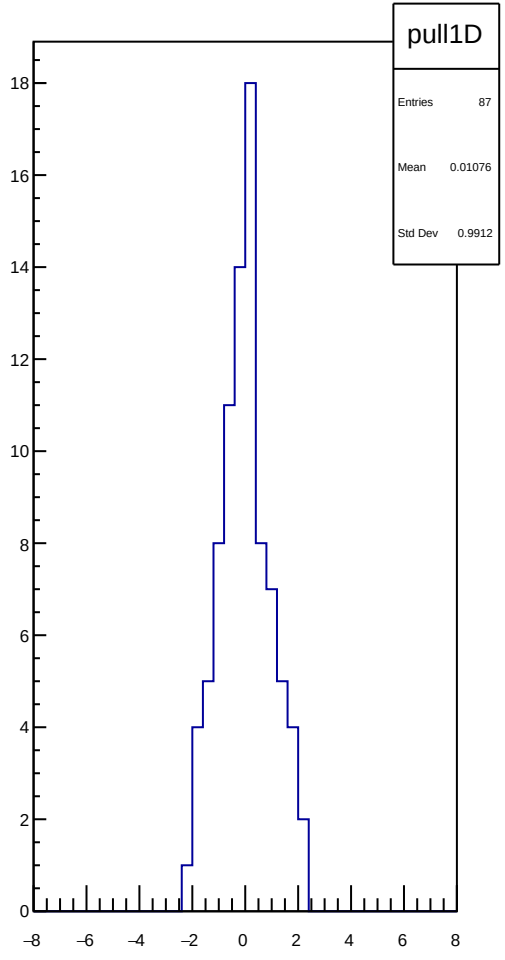

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 8068 / 86
p0 57.41 ± 0.04431
90
80
70
60
50

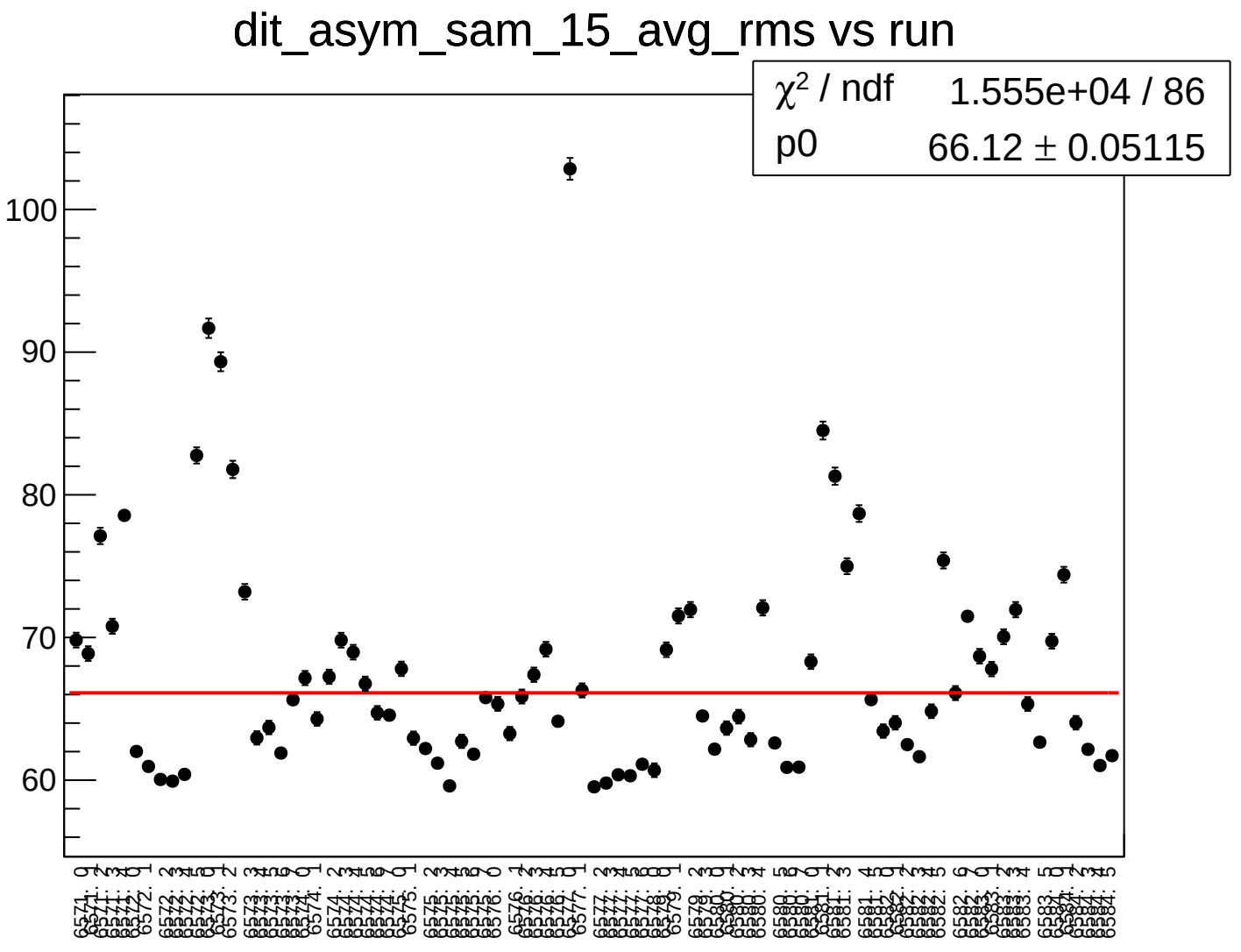

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 114.6 / 86
p0 189.7 ± 305
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 234.7
Std Dev 0
2
1
0
−1
−2
−3

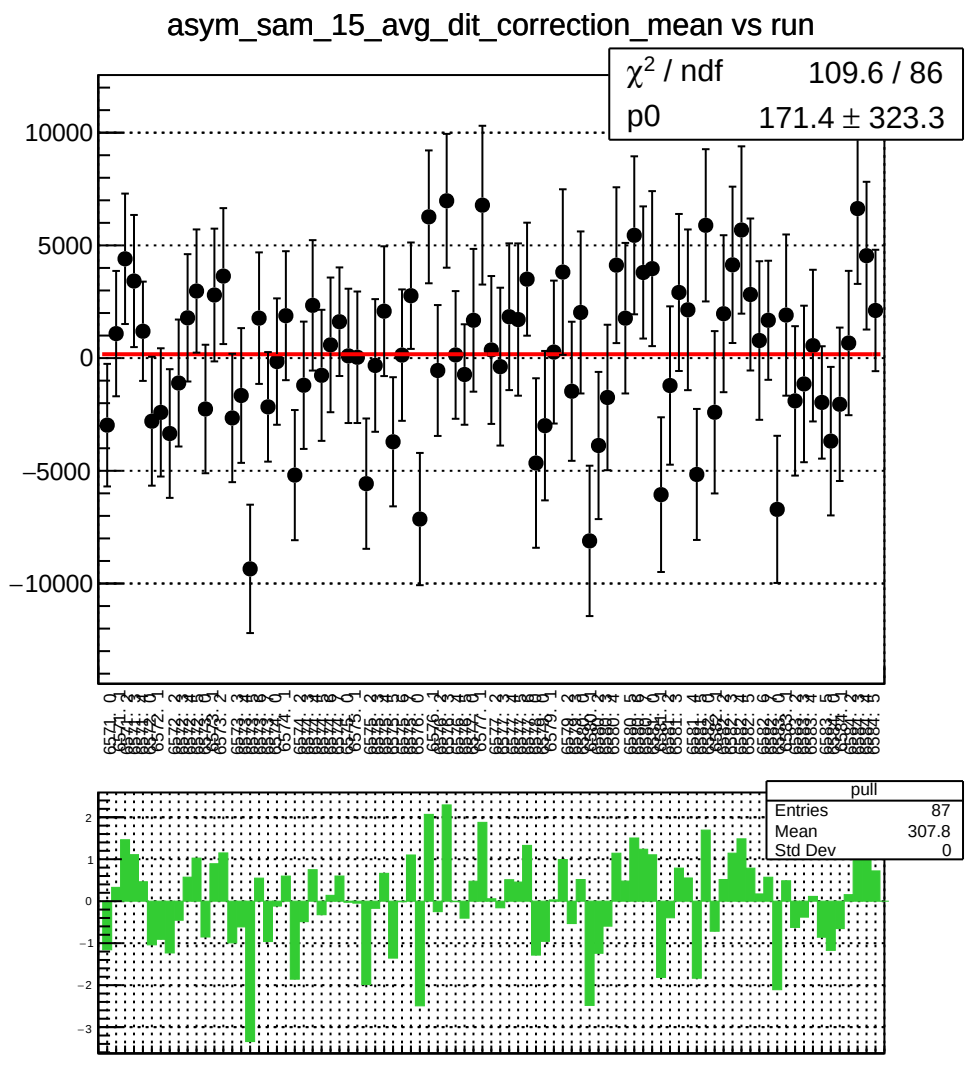

pull1D
Entries 87
Mean 0.01536
Std Dev 1.147
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

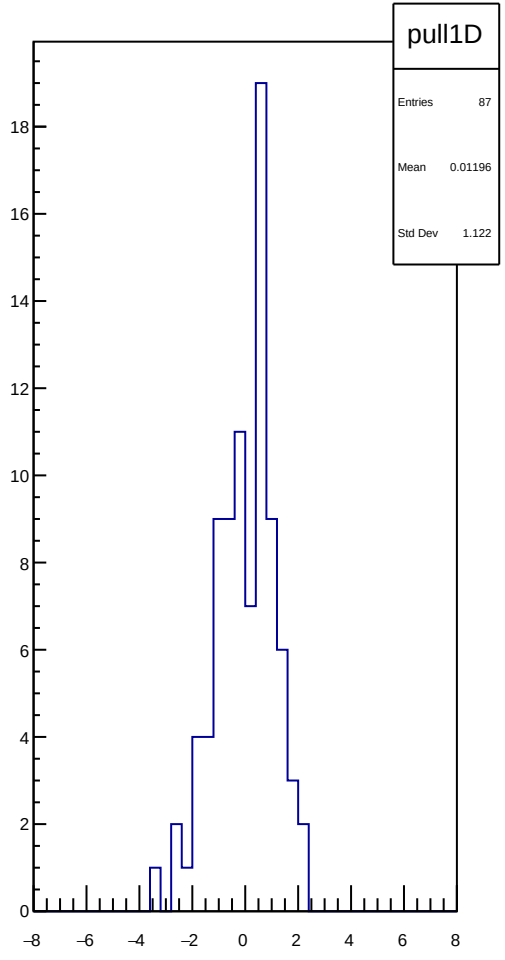

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.588e+04 / 86
p0 278.8 ± 0.2157
340
320
300
280
260
240

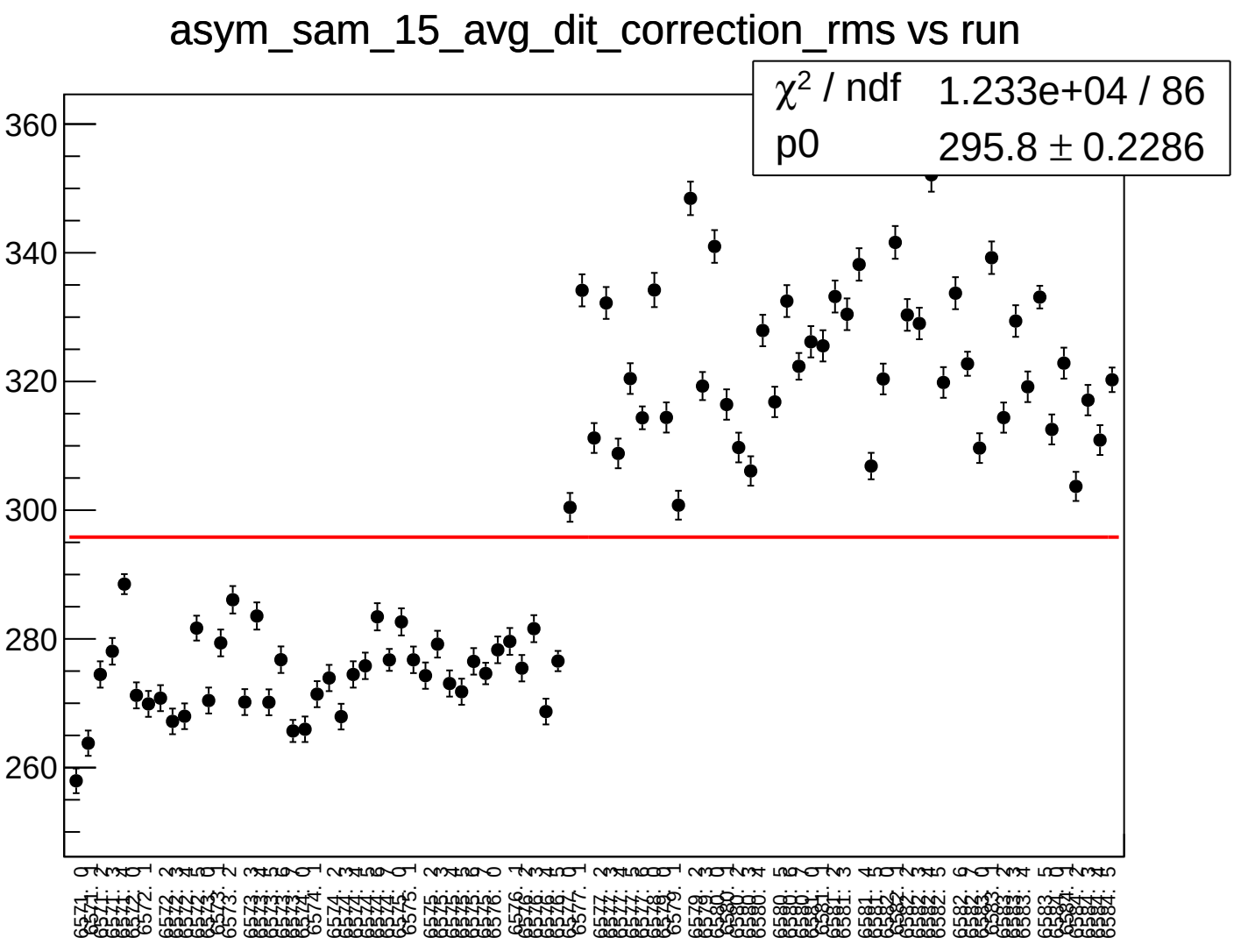

dit_asym_sam_15_avg_mean vs run
χ² / ndf 85.49 / 86
p0 64.14 ± 72.33
pull
Entries 87
Mean 389.8
Std Dev 0

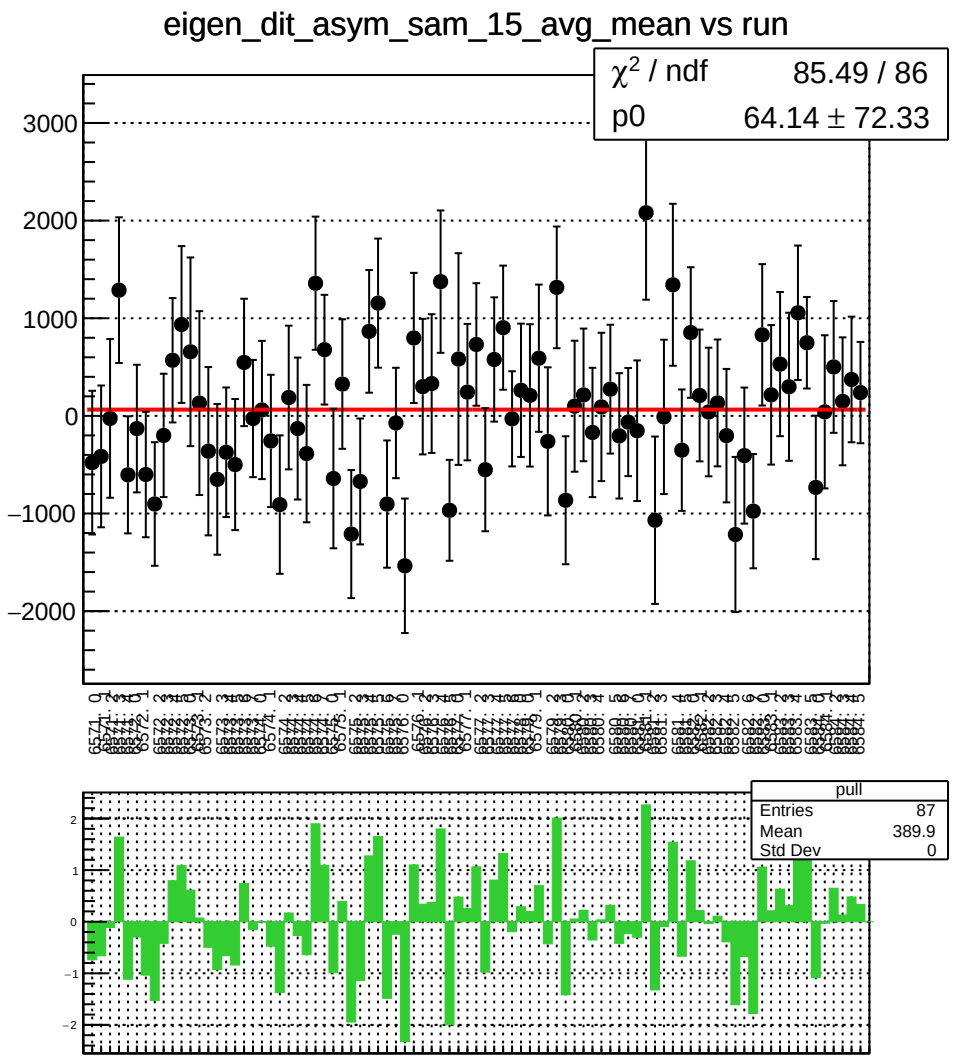

pull1D
Entries 87
Mean 0.01076
Std Dev 0.9912

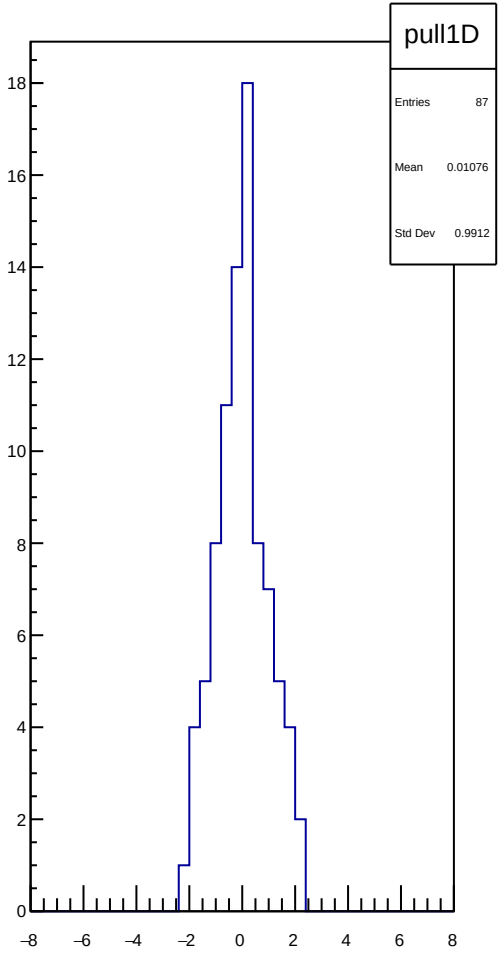

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.555e+04 / 86
p0 66.12 ± 0.05115
100
90
80
70
60

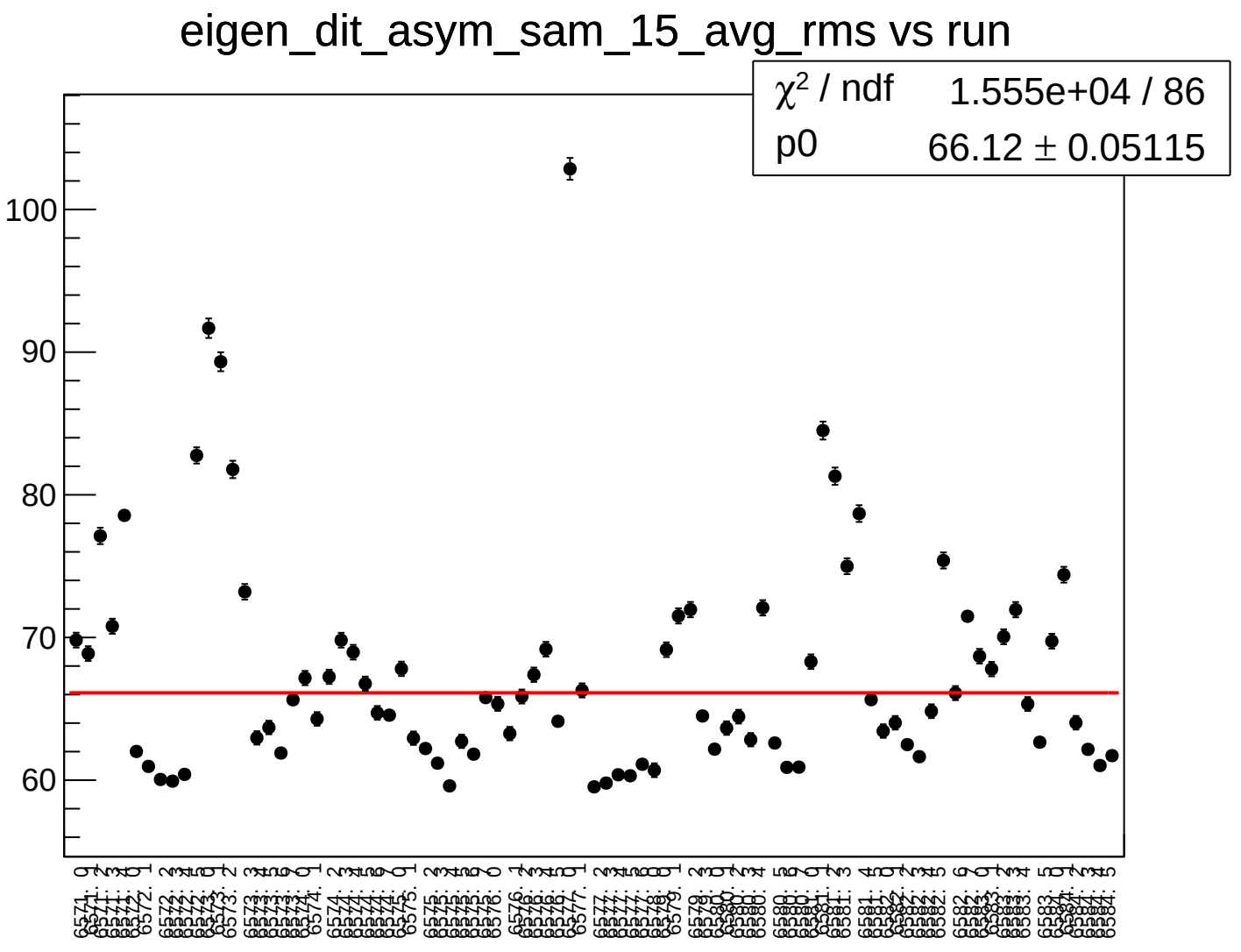

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 109.6 / 86
p0 171.4 ± 323.3
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 307.8
Std Dev 0
2
1
0
−1
−2
−3

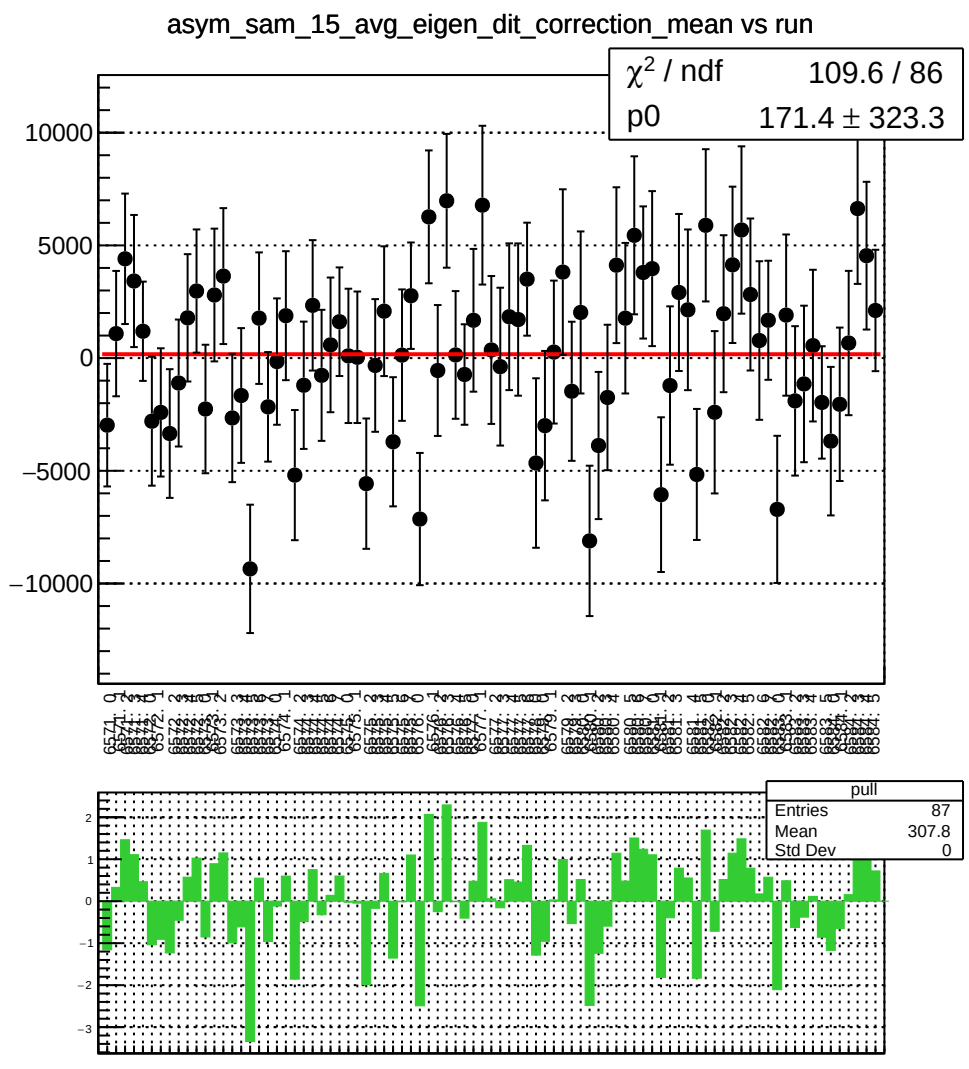

pull1D
Entries 87
Mean 0.01196
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

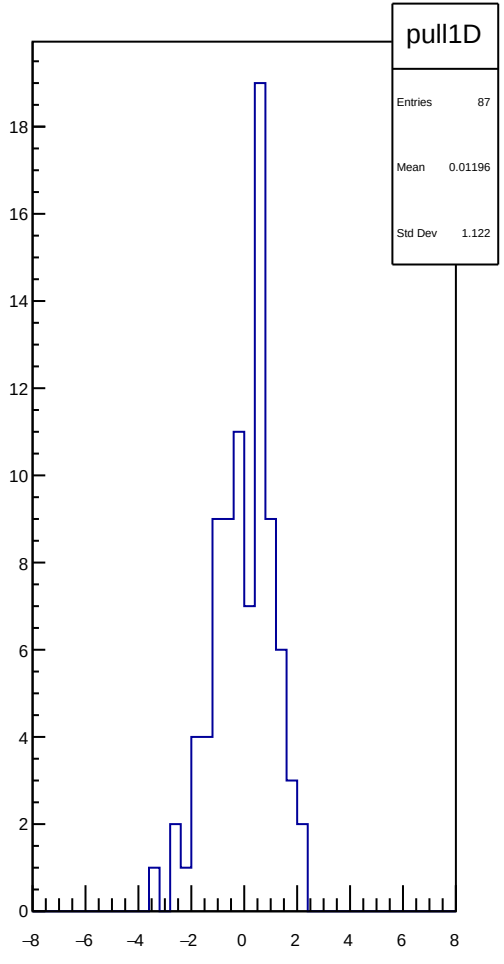

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.233e+04 / 86
p0 295.8 ± 0.2286
360
340
320
300
280
260

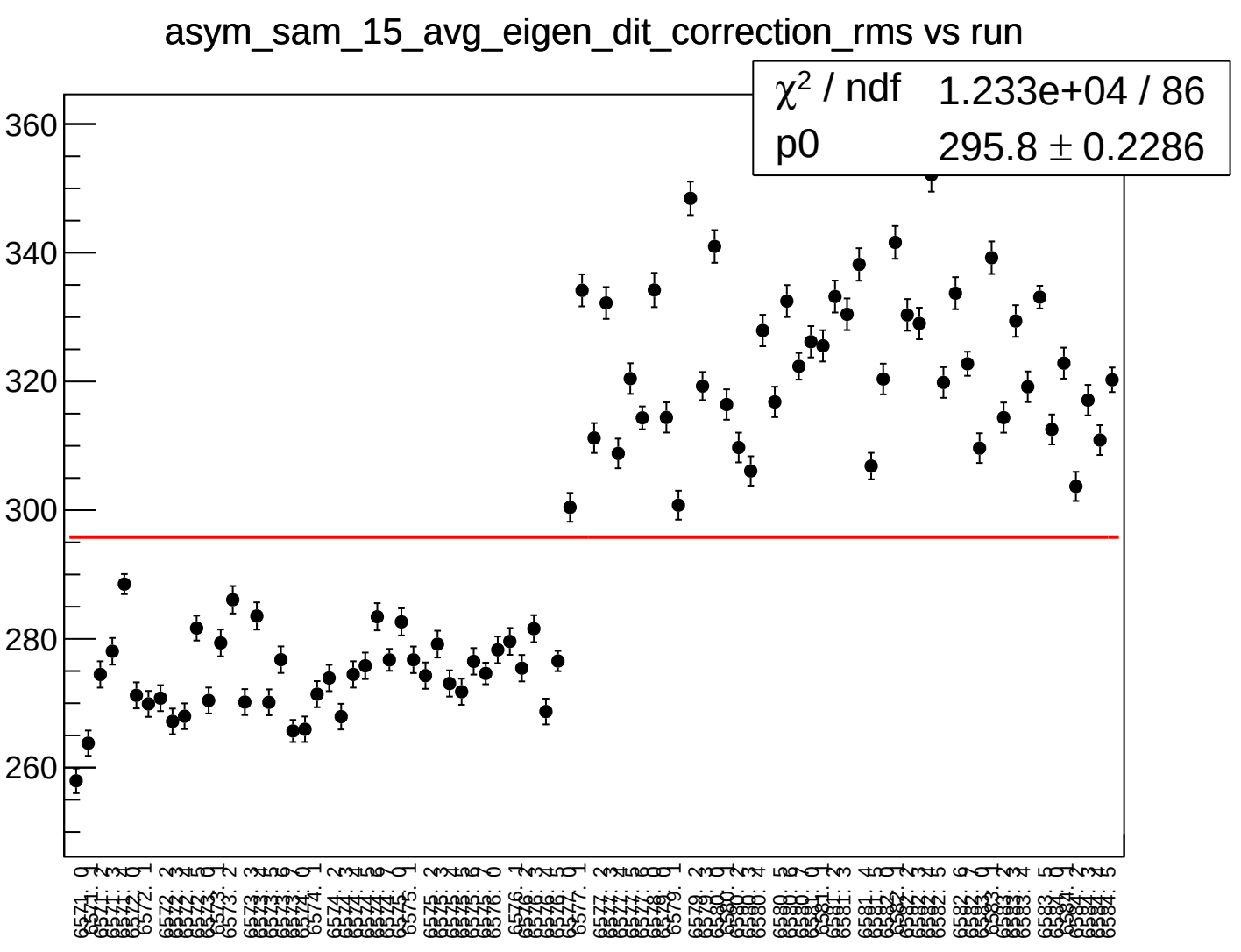

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 85.49 / 86
p0 64.14 ± 72.33
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 389.9
Std Dev 0
2
1
0
−1
−2

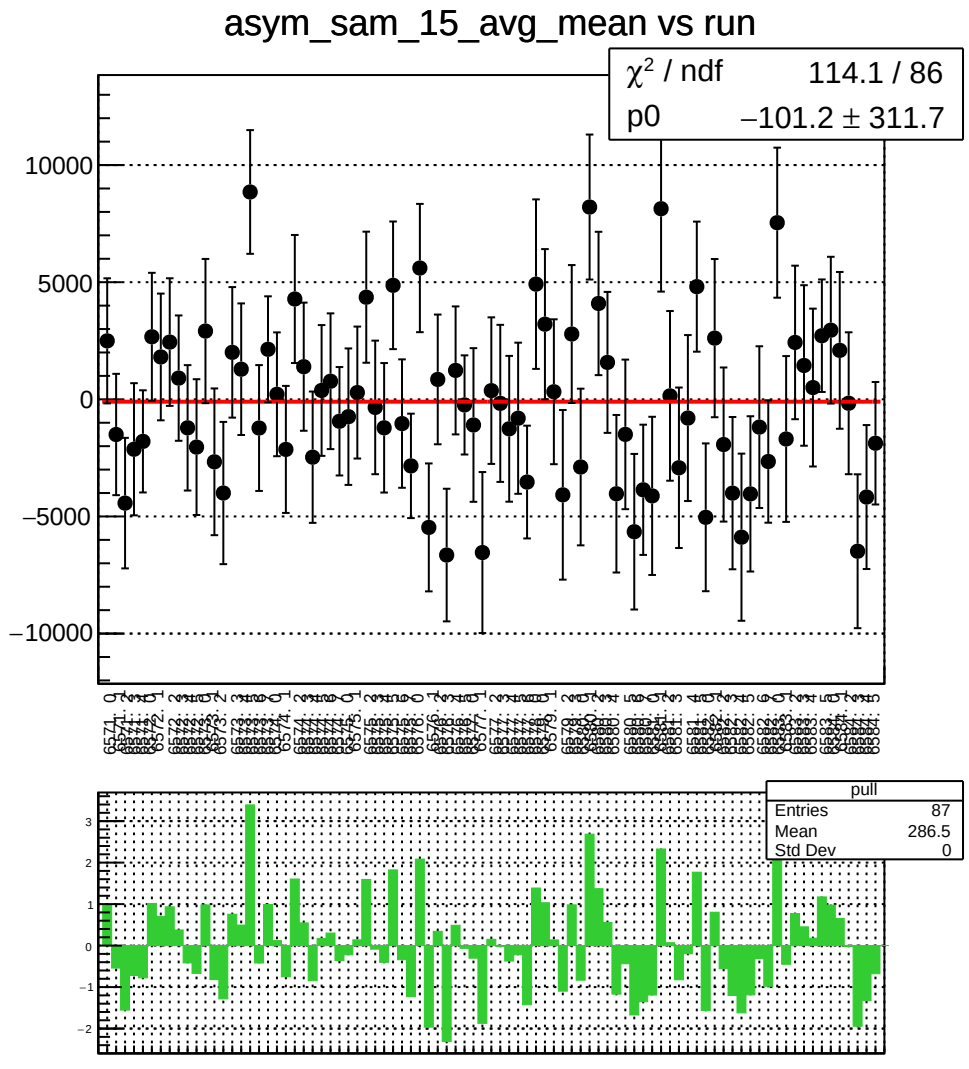

pull1D
Entries 87
Mean 0.01076
Std Dev 0.9912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

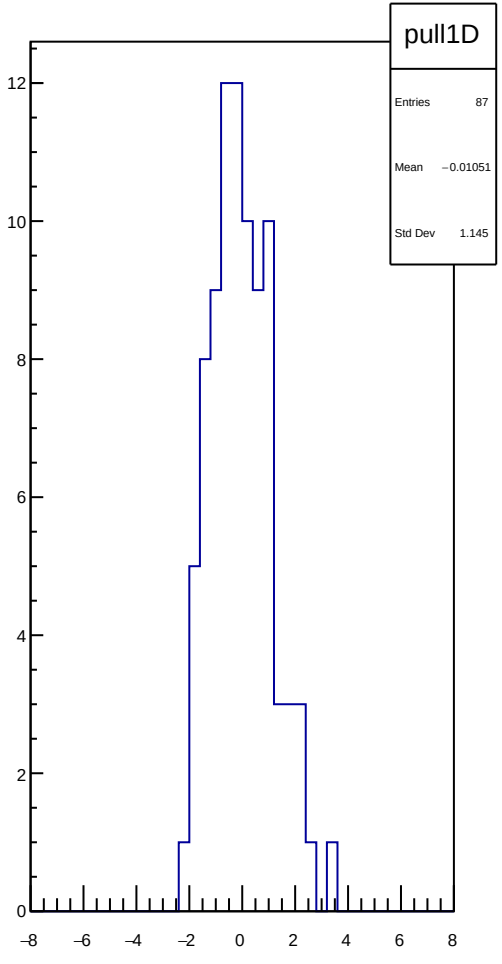

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1.555e+04 / 86
p0 66.12 ± 0.05115
100
90
80
70
60

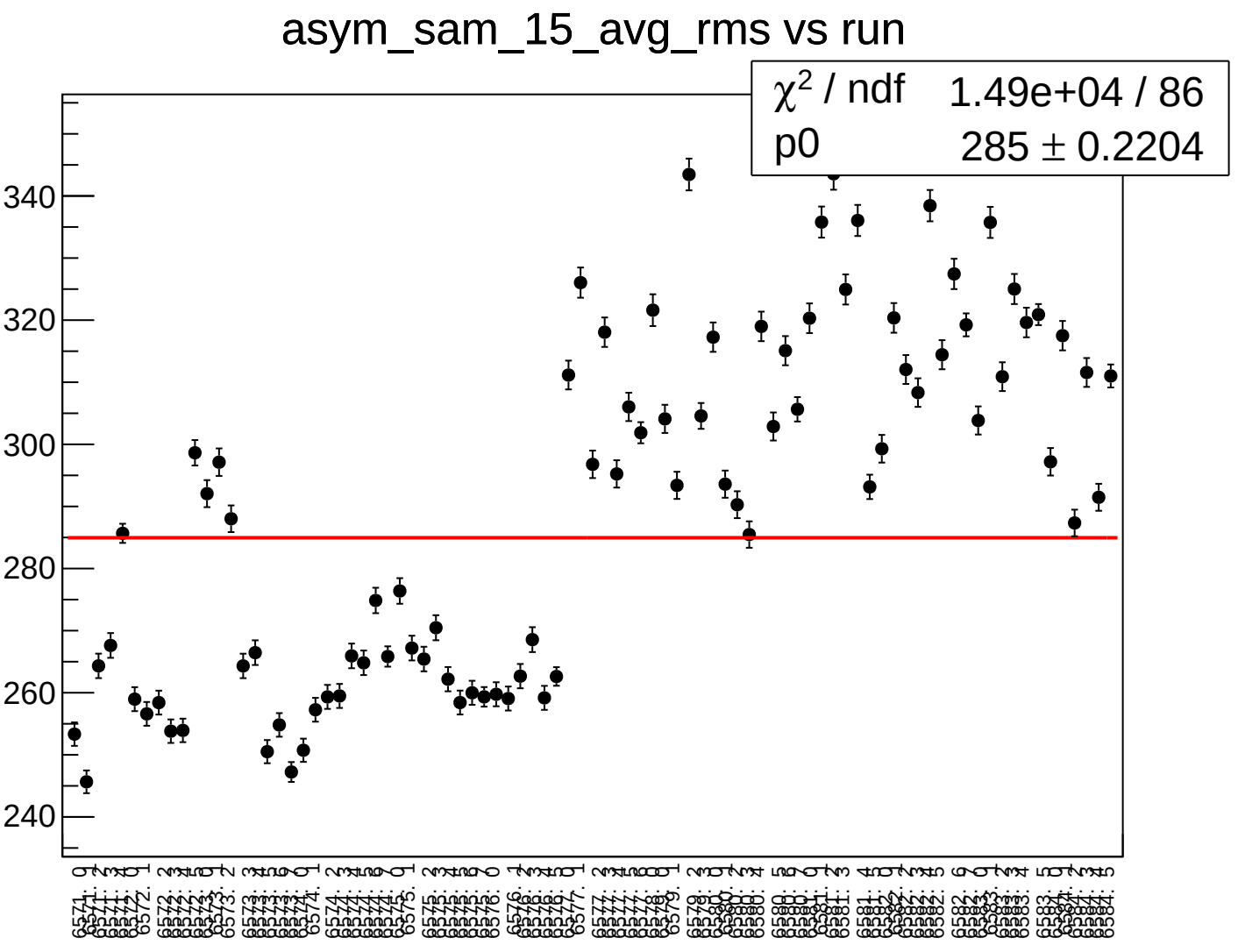

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 109.6 / 86
p0 171.4 ± 323.3
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 307.8
Std Dev 0
2
1
0
−1
−2
−3

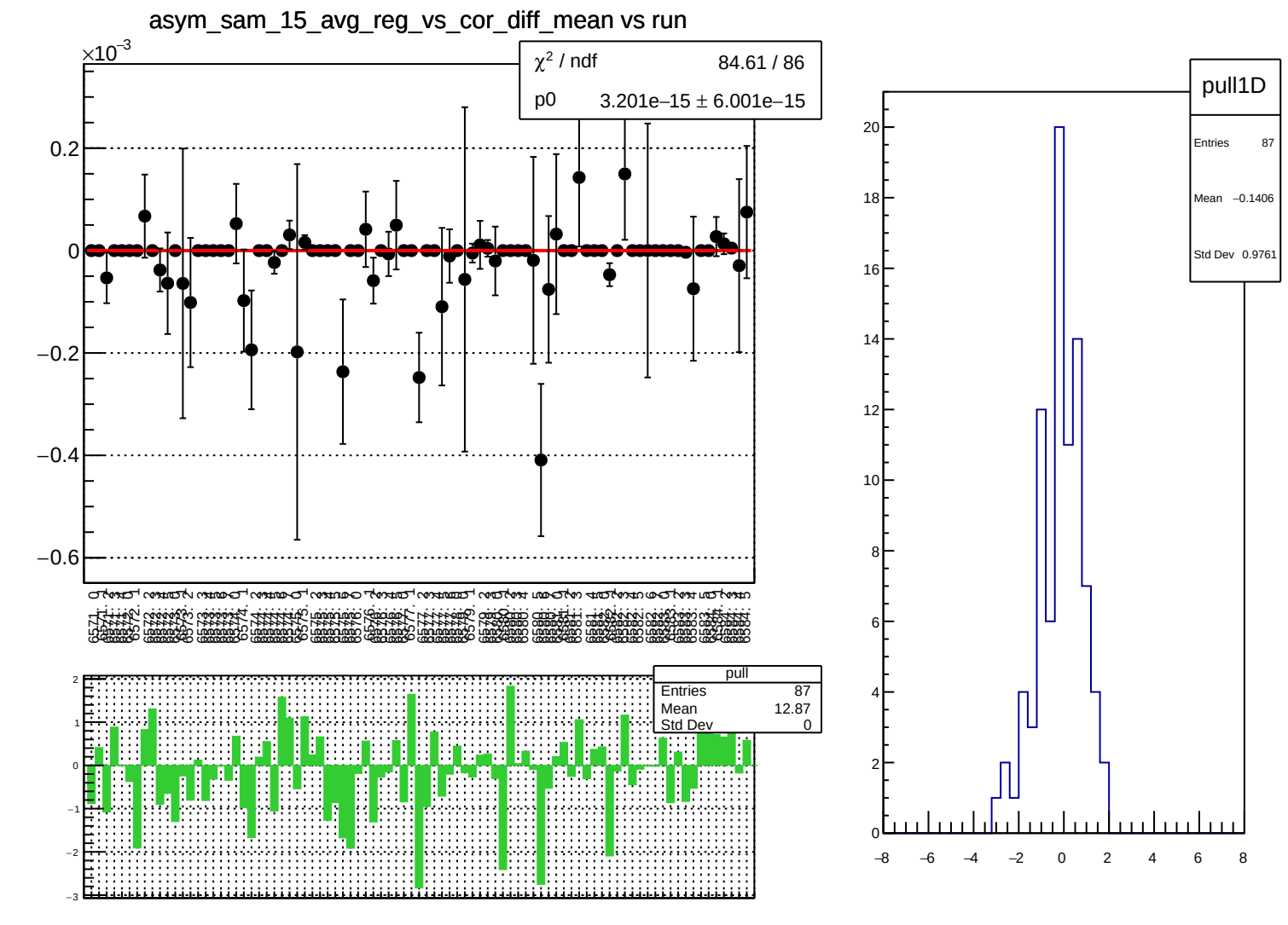

pull1D
Entries 87
Mean 0.01196
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

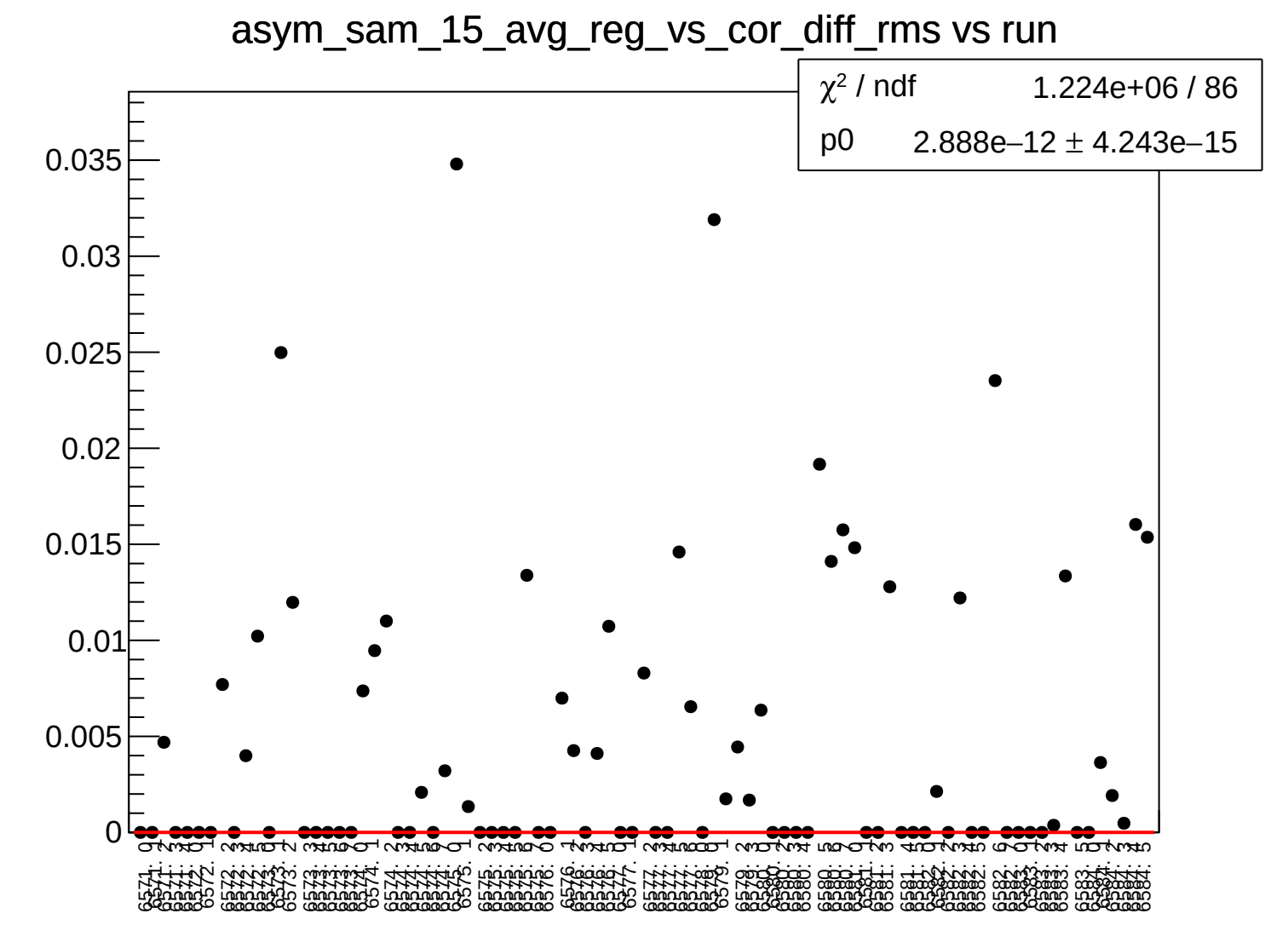

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.233e+04 / 86
p0 295.8 ± 0.2286
360
340
320
300
280
260

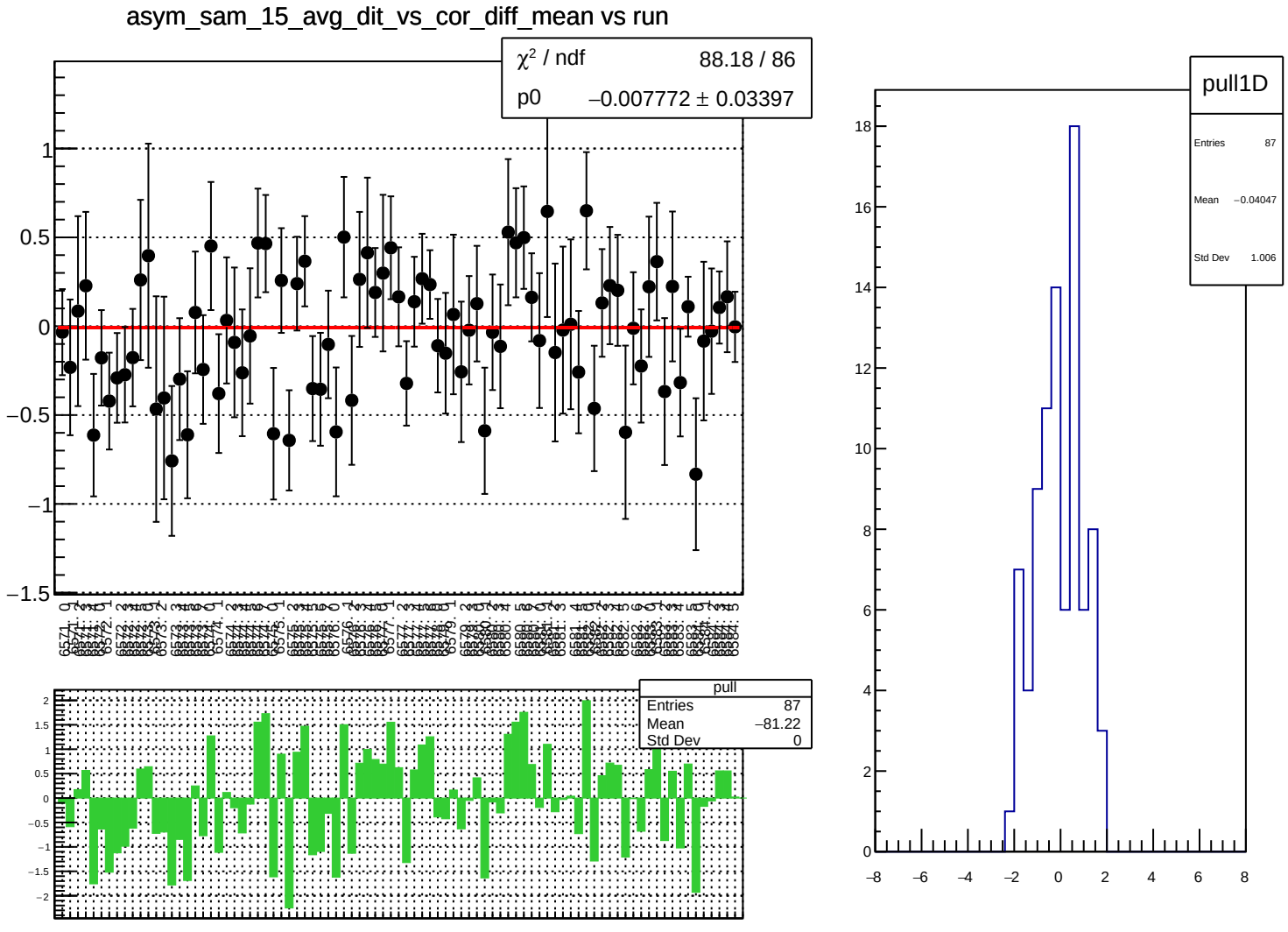

asym_sam_15_avg_mean vs run
χ² / ndf 114.1 / 86
p0 −101.2 ± 311.7
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 286.5
Std Dev 0
3
2
1
0
−1
−2

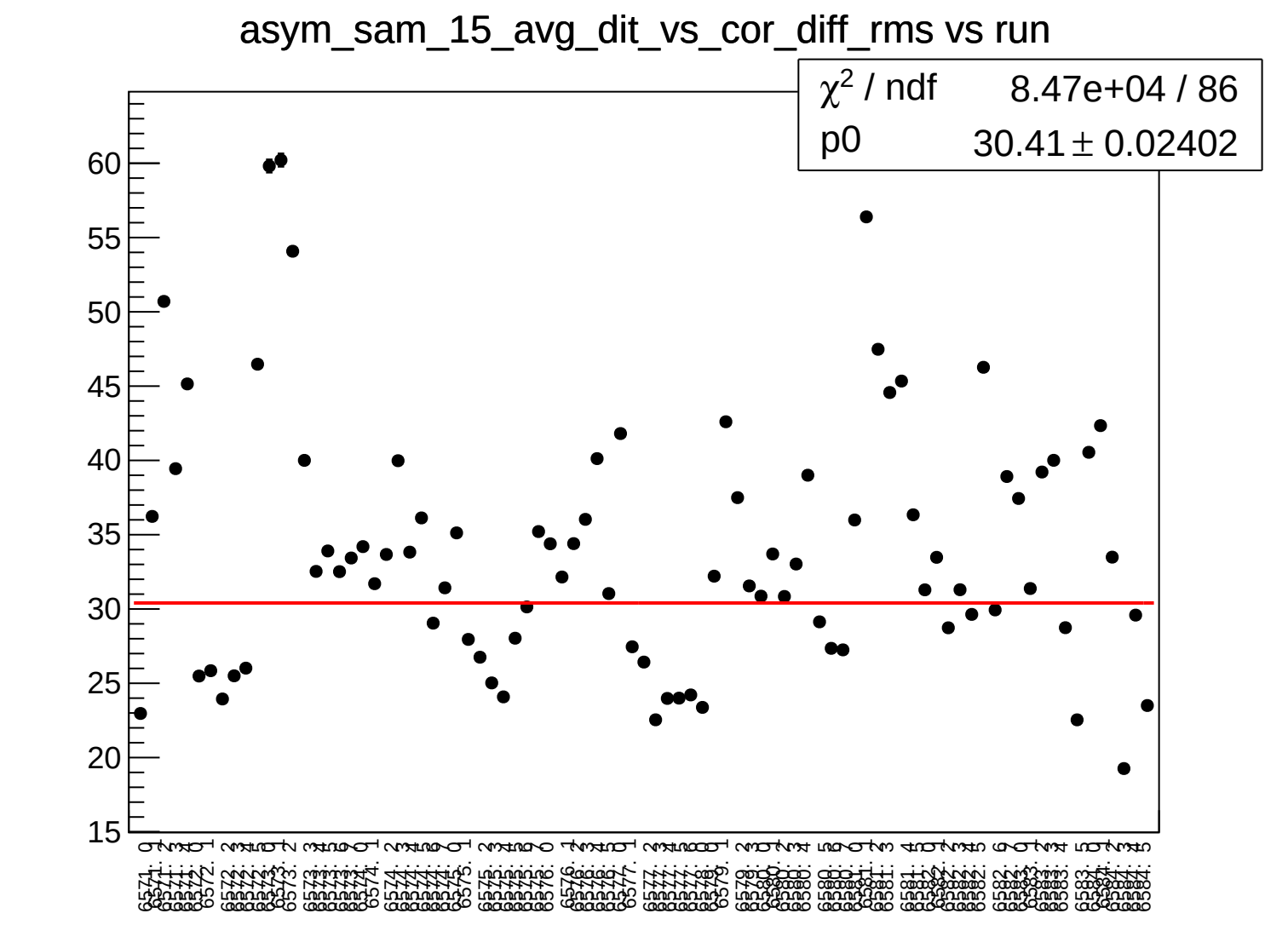

pull1D
Entries 87
Mean −0.01051
Std Dev 1.145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

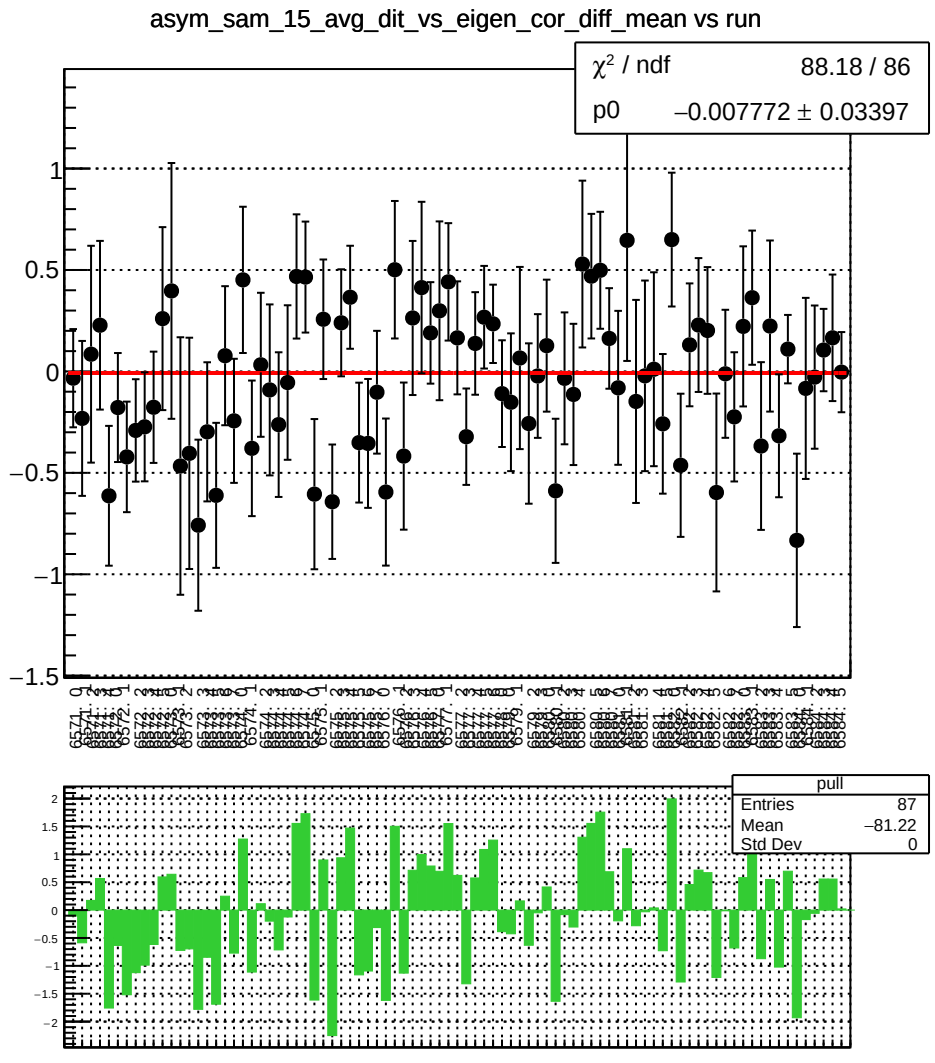

asym_sam_15_avg_rms vs run
χ^2 / ndf 1.49e+04 / 86
p0 285 ± 0.2204
340
320
300
280
260
240

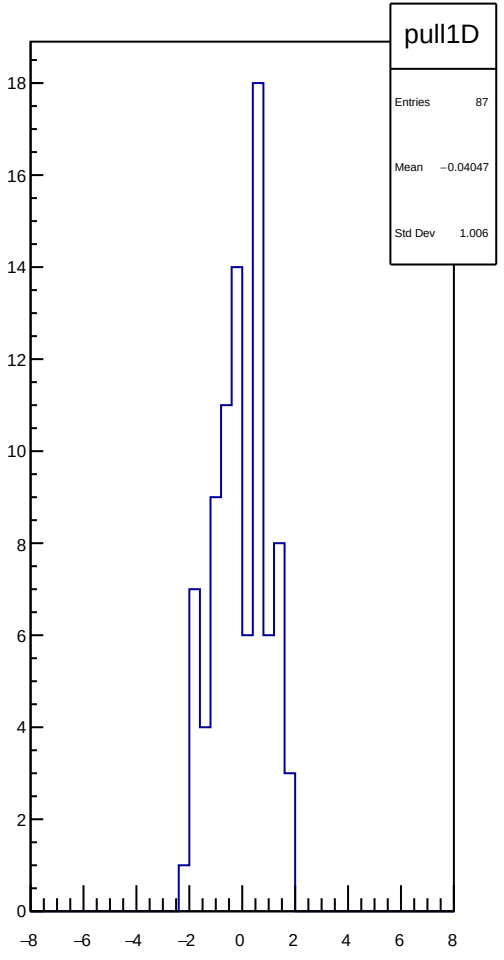

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 84.61 / 86
p0 3.201e−15 ± 6.001e−15
0.2
0
−0.2
−0.4
−0.6
pull
Entries 87
Mean 12.87
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.1406
Std Dev 0.9761
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

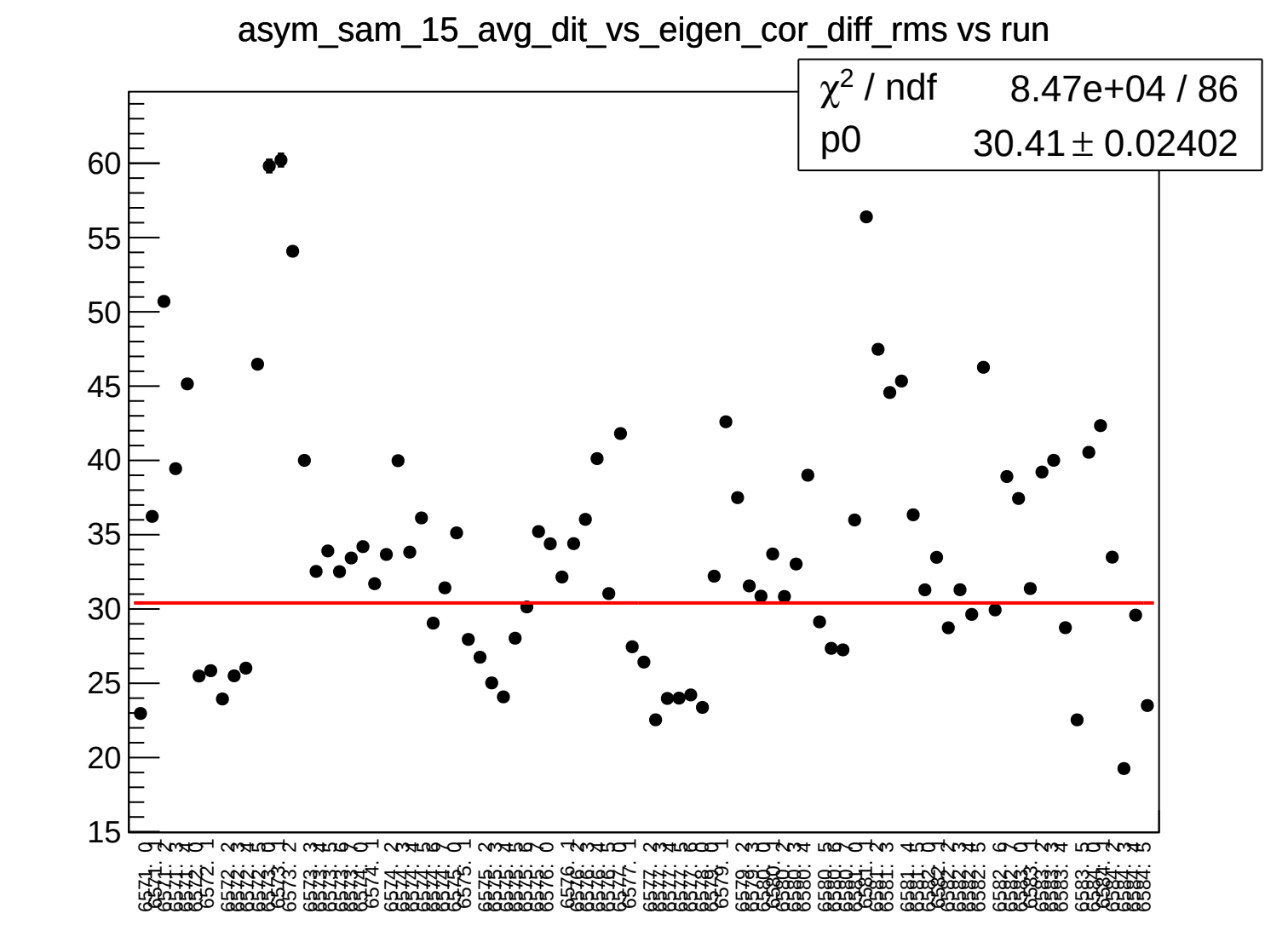

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.224e+06 / 86
p0 2.888e−12 ± 4.243e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

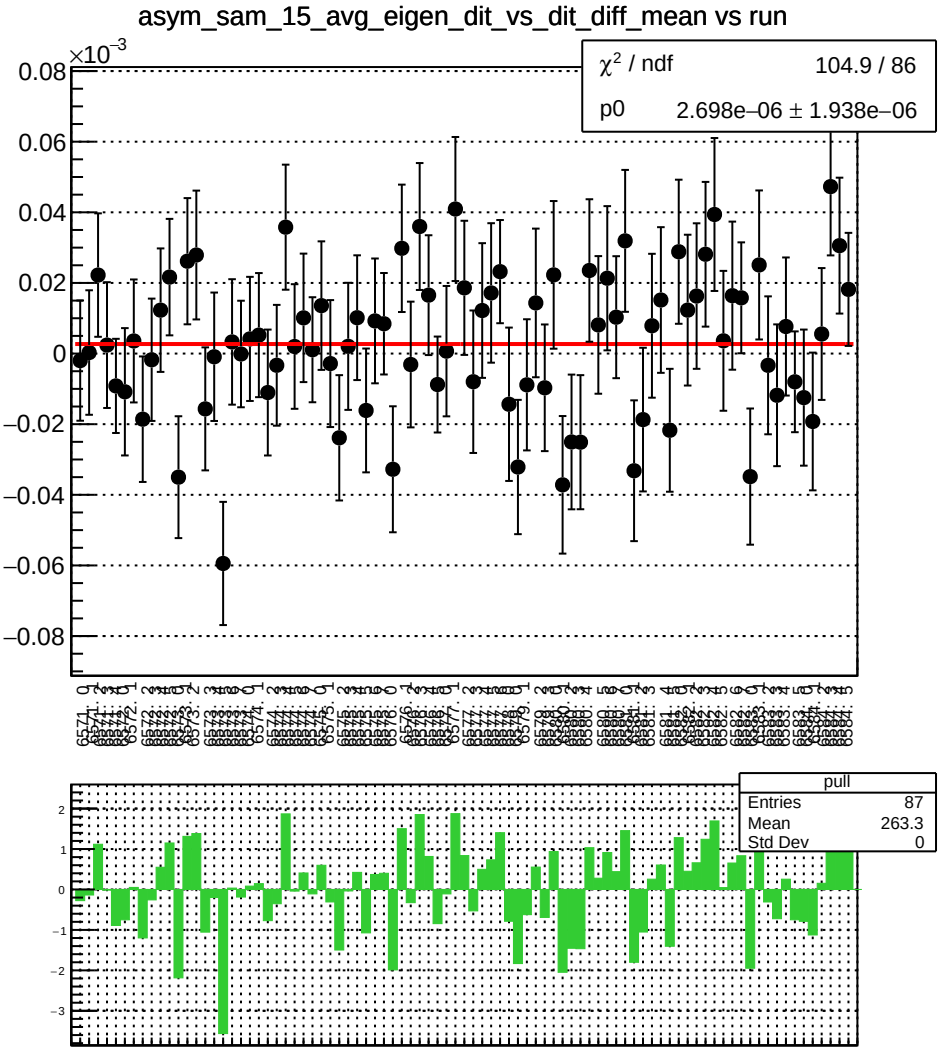

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.18 / 86
p0 −0.007772 ± 0.03397
pull
Entries 87
Mean −81.22
Std Dev 0
pull1D
Entries 87
Mean −0.04047
Std Dev 1.006

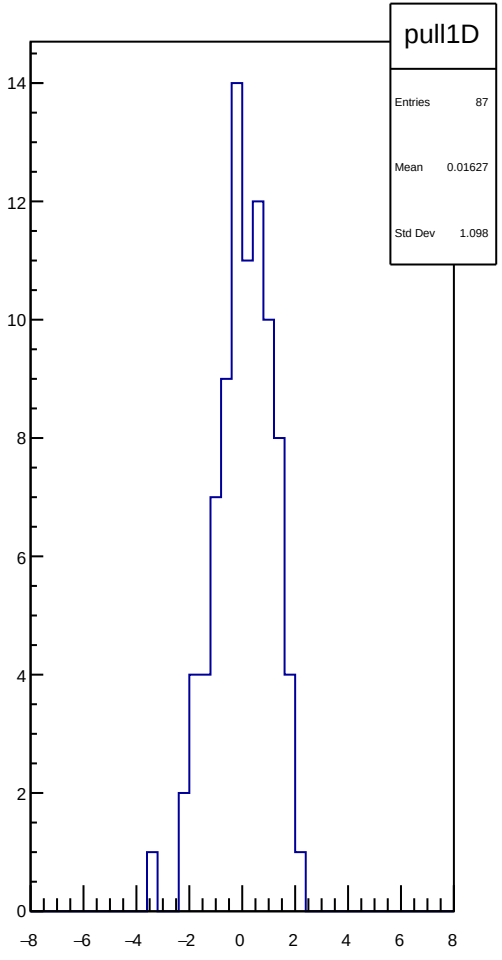

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.47e+04 / 86
p0 30.41 ± 0.02402
60
55
50
45
40
35
30
25
20
15

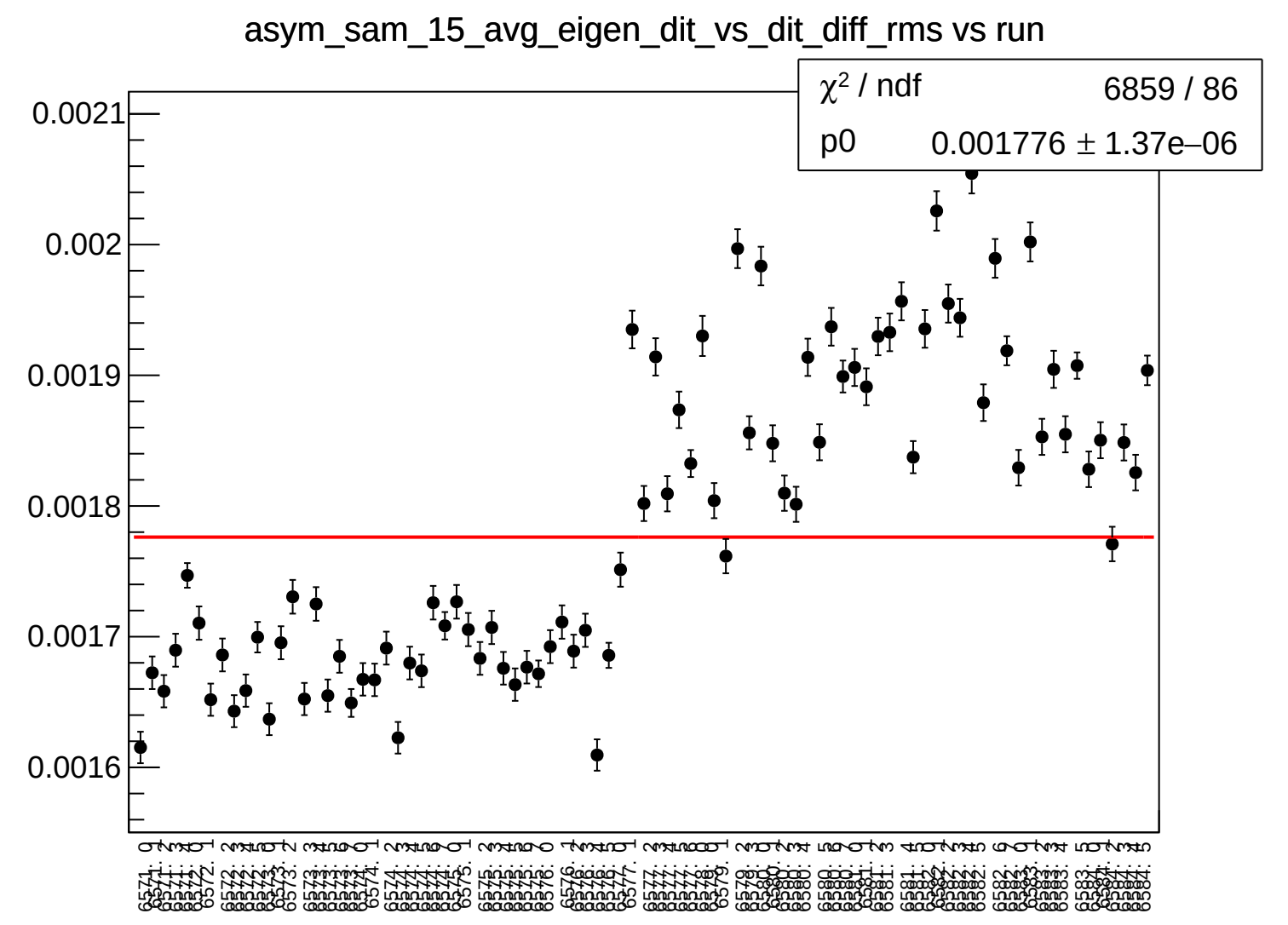

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.18 / 86
p0 −0.007772 ± 0.03397
pull
Entries 87
Mean −81.22
Std Dev 0

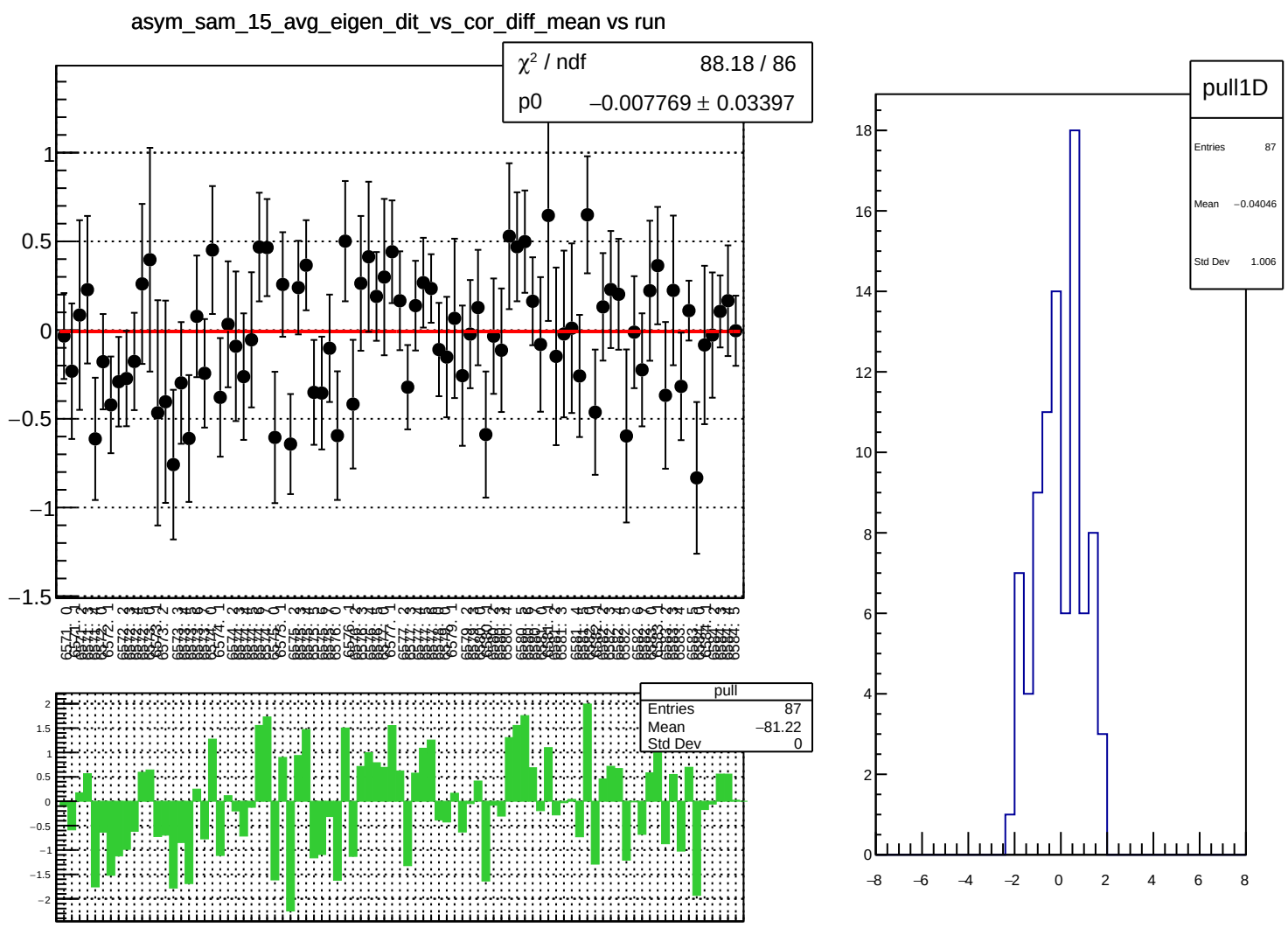

pull1D
Entries 87
Mean −0.04047
Std Dev 1.006

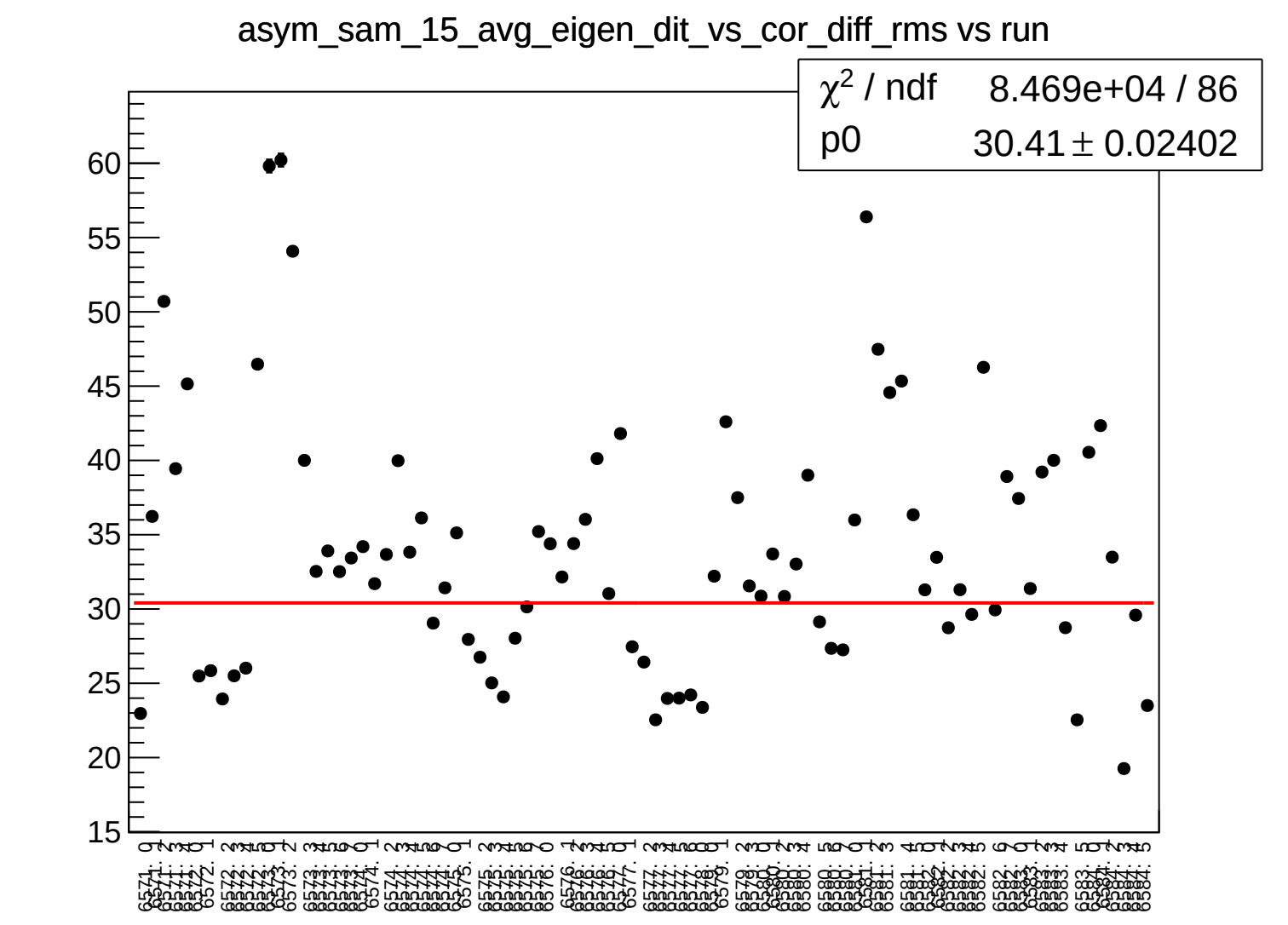

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.47e+04 / 86
p0 30.41 ± 0.02402
60
55
50
45
40
35
30
25
20
15

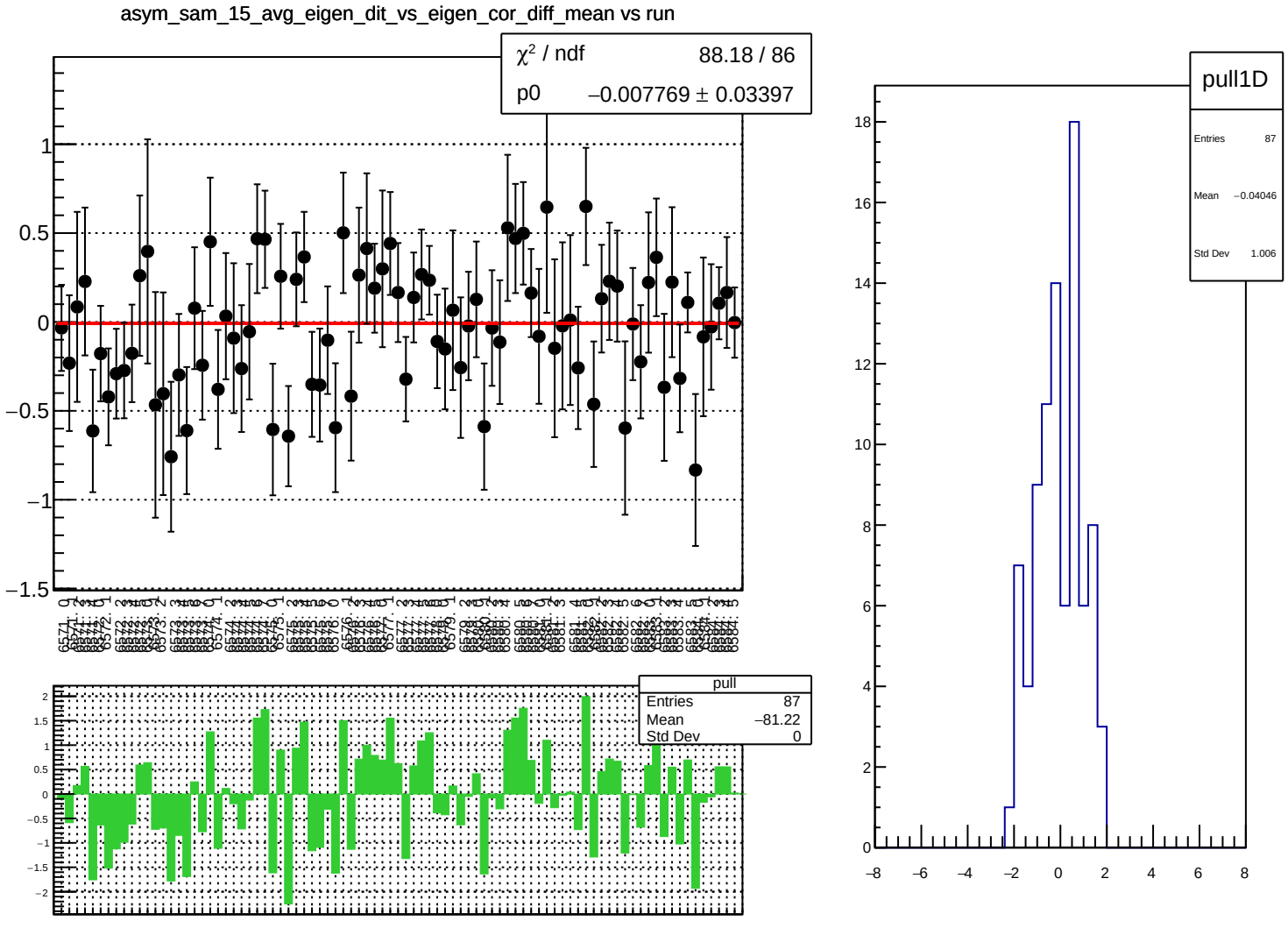

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.9 / 86
p0 2.698e−06 ± 1.938e−06
pull
Entries 87
Mean 263.3
Std Dev 0

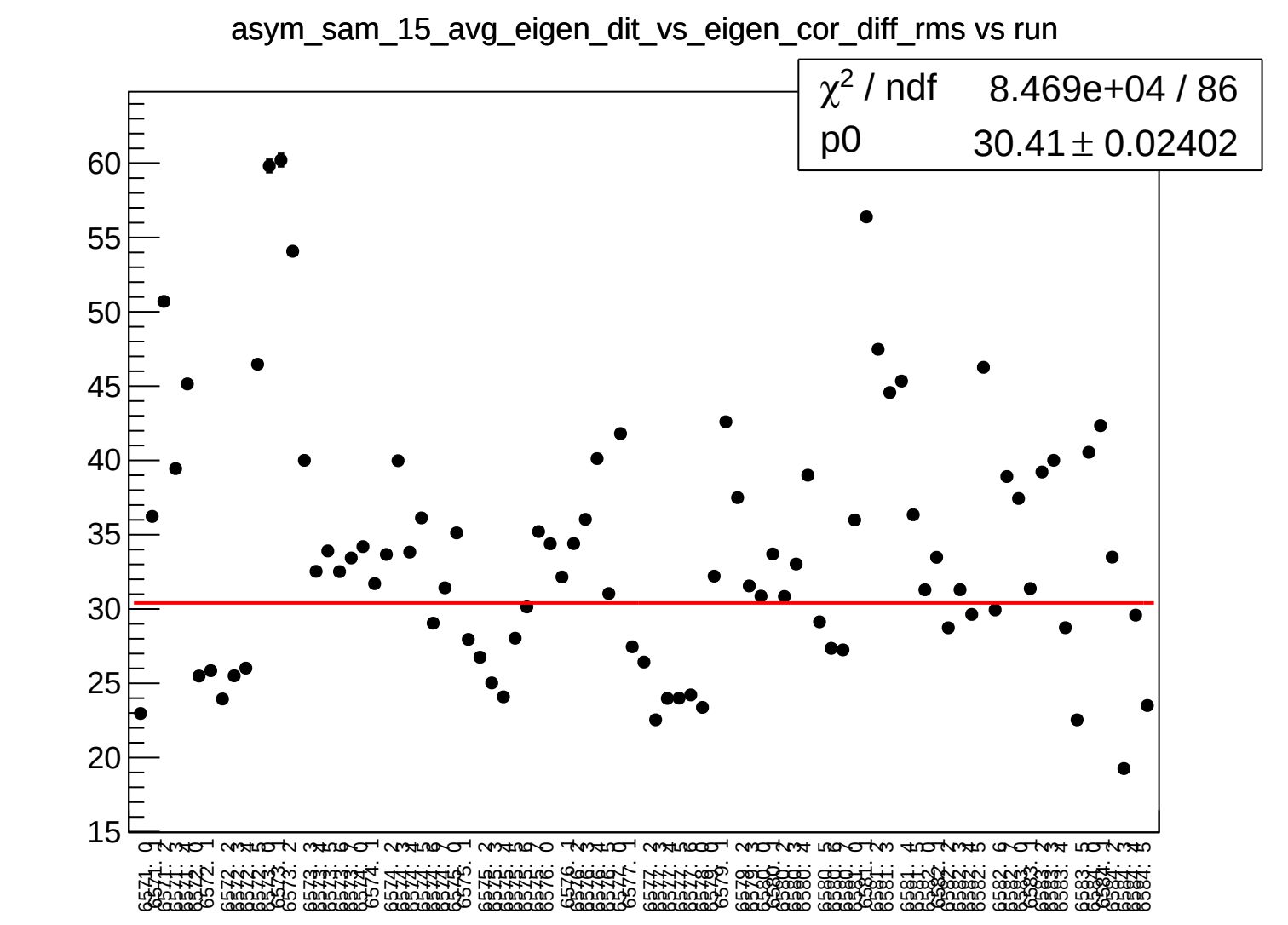

pull1D
Entries 87
Mean 0.01627
Std Dev 1.098

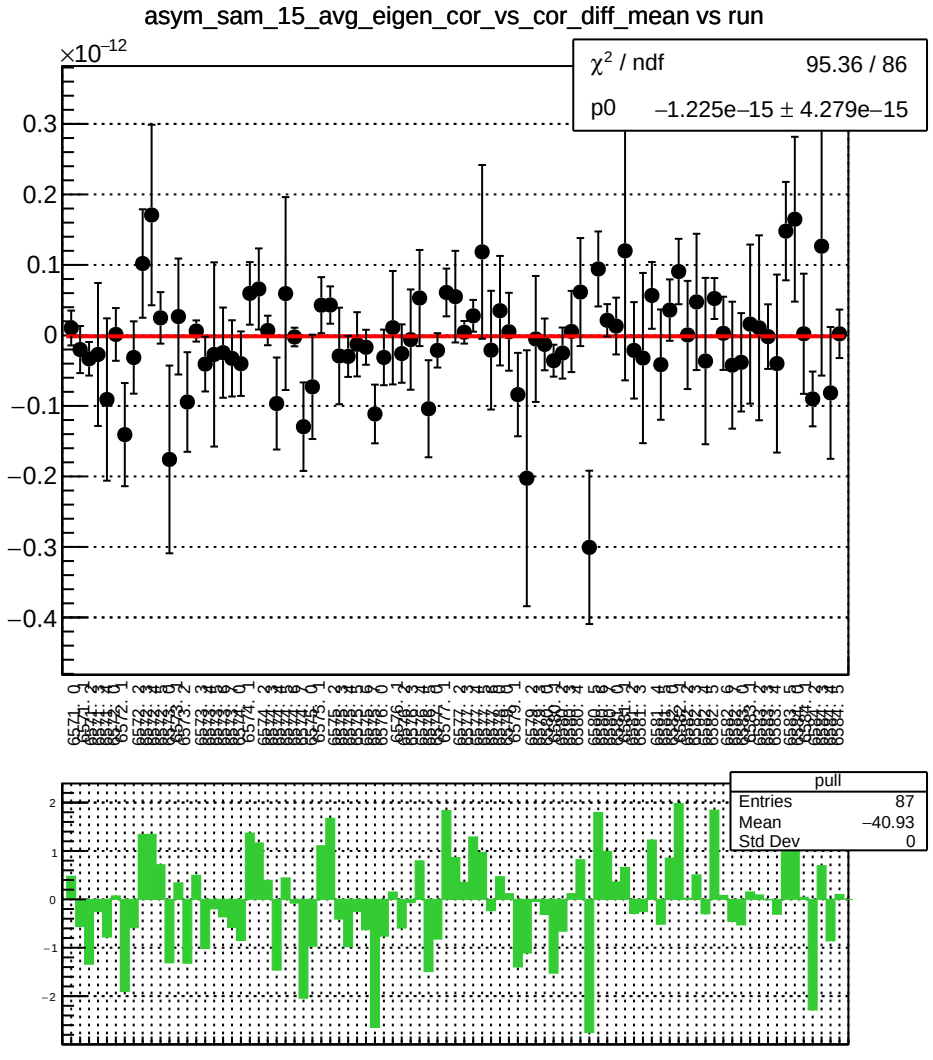

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6859 / 86
p0 0.001776 ± 1.37e–06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

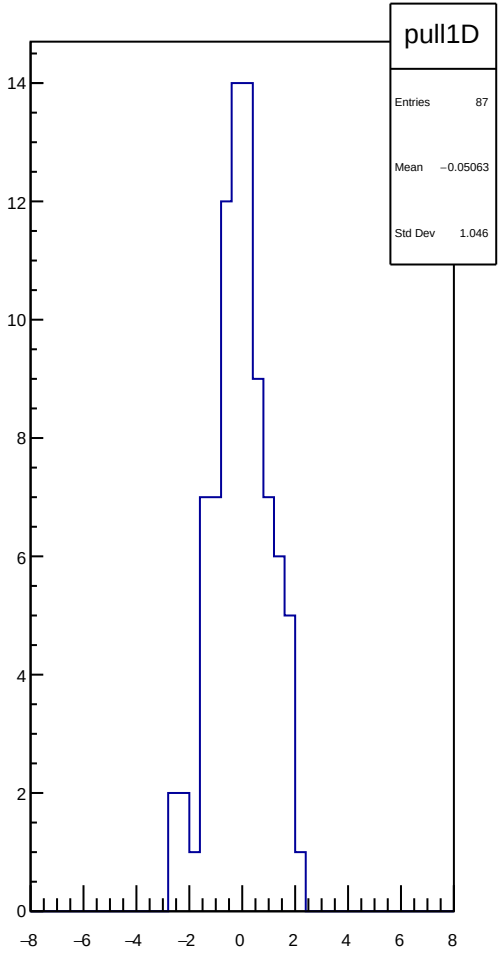

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.18 / 86
p0 −0.007769 ± 0.03397
pull
Entries 87
Mean −81.22
Std Dev 0
pull1D
Entries 87
Mean −0.04046
Std Dev 1.006

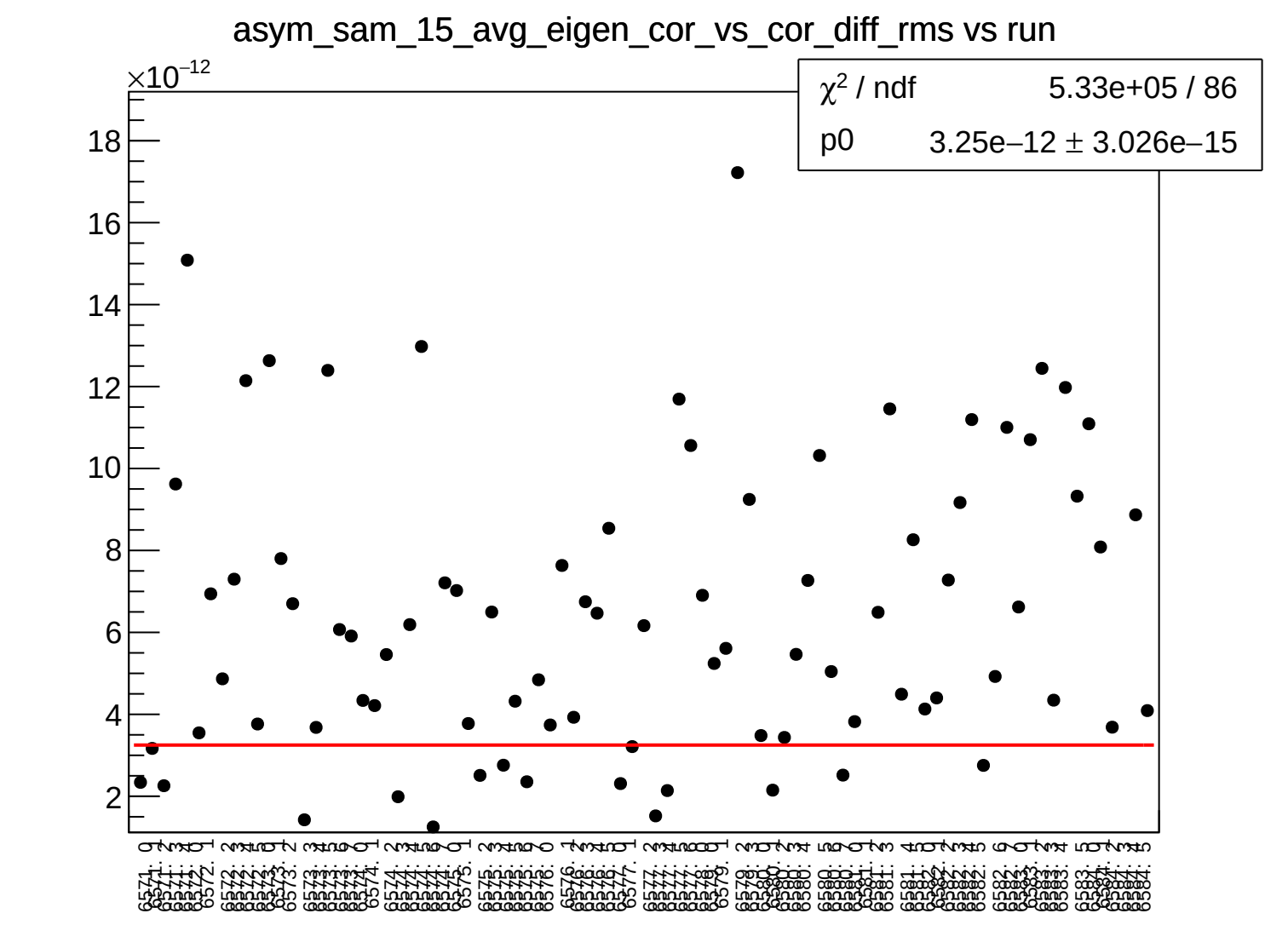

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.469e+04 / 86
p0 30.41 ± 0.02402
60
55
50
45
40
35
30
25
20
15

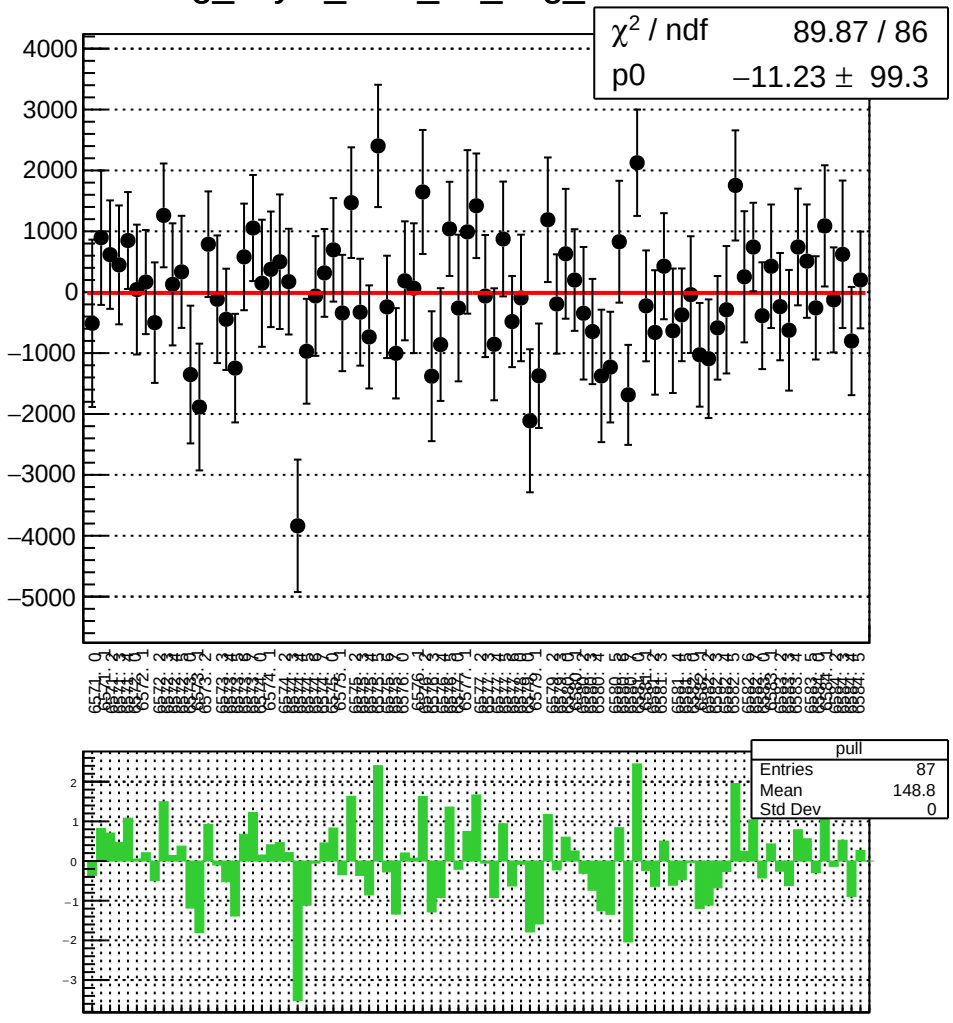

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.18 / 86
p0 −0.007769 ± 0.03397
pull
Entries 87
Mean −81.22
Std Dev 0
pull1D
Entries 87
Mean −0.04046
Std Dev 1.006

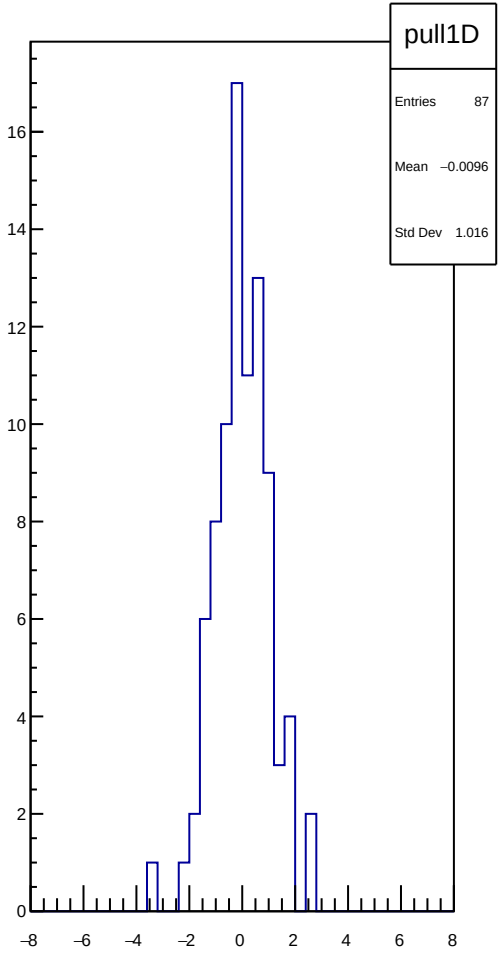

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.469e+04 / 86
p0 30.41 ± 0.02402
60
55
50
45
40
35
30
25
20
15

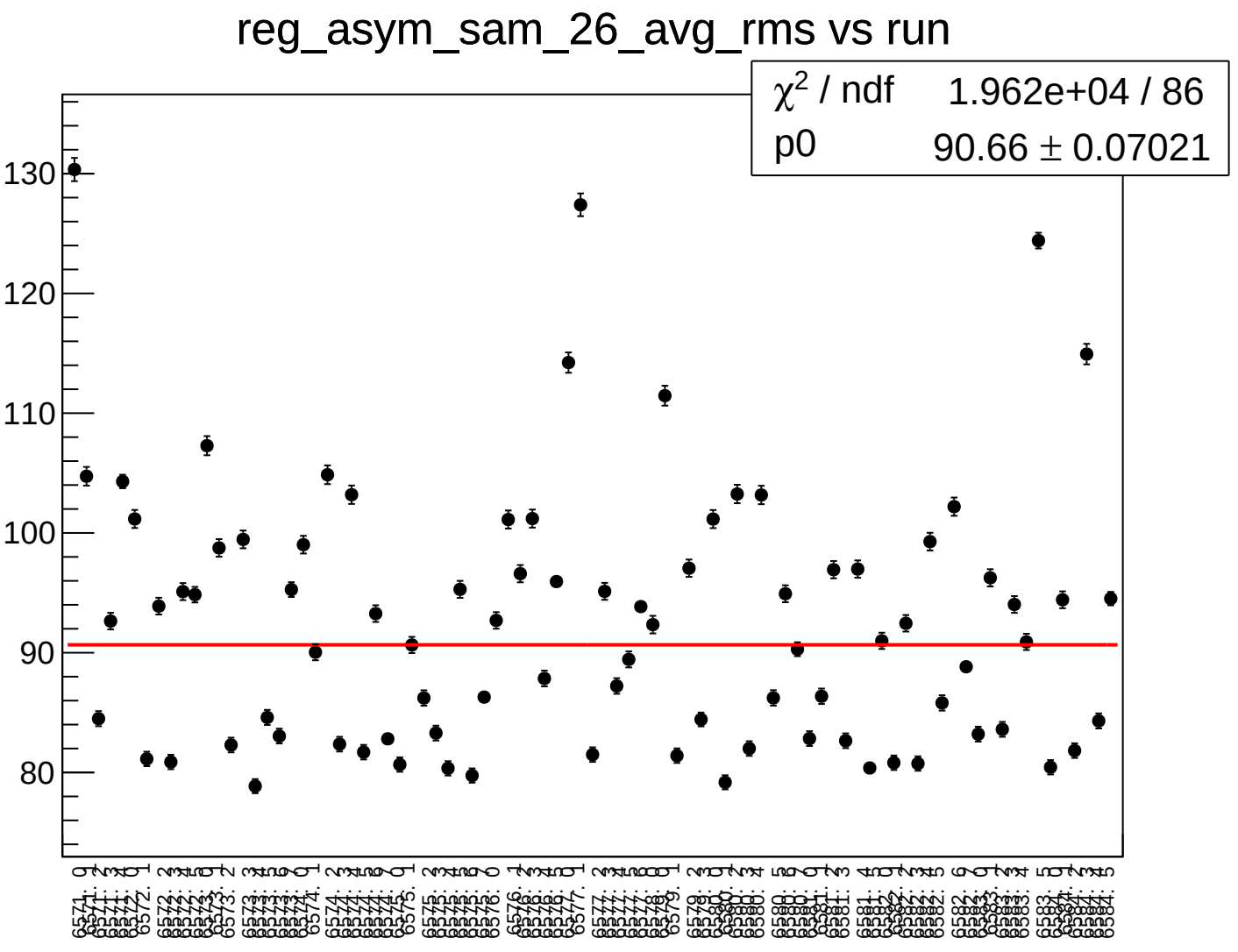

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.36 / 86
p0 −1.225e−15 ± 4.279e−15
pull
Entries 87
Mean −40.93
Std Dev 0

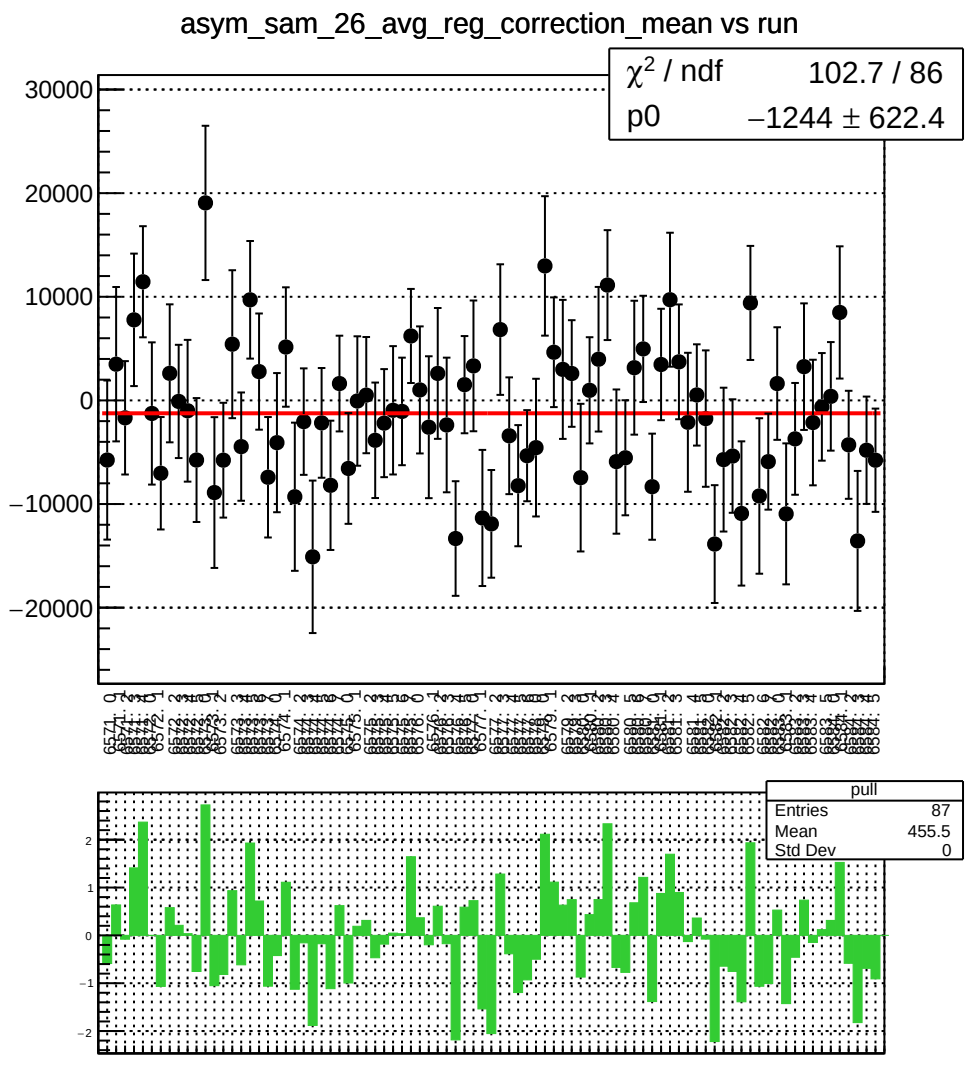

pull1D
Entries 87
Mean −0.05063
Std Dev 1.046

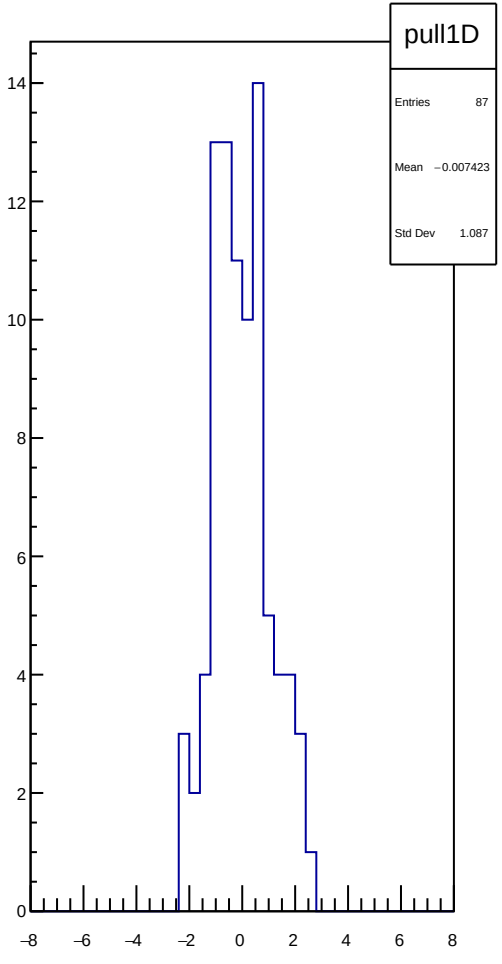

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.33e+05 / 86
p0 3.25e−12 ± 3.026e−15
18
16
14
12
10
8
6
4
2

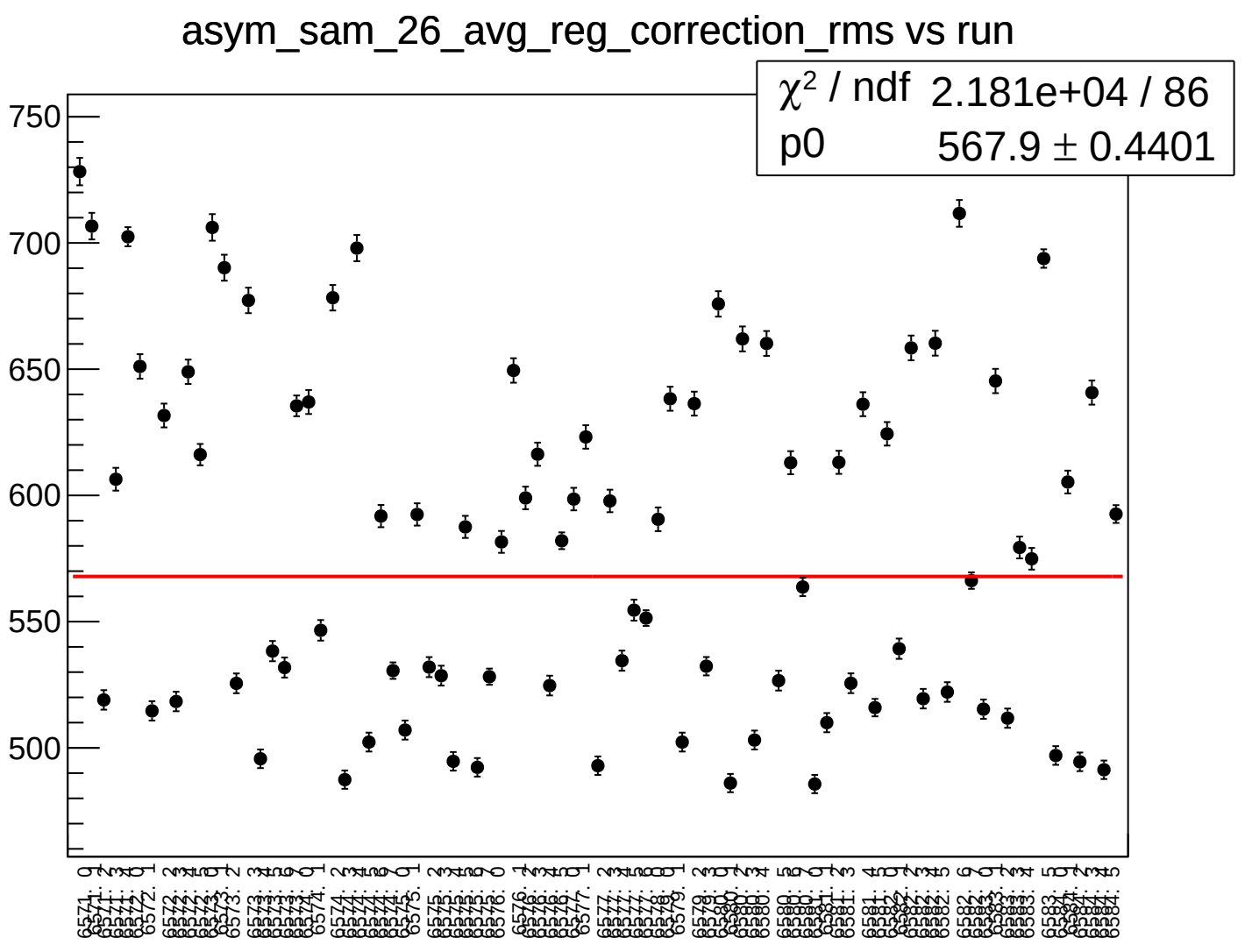

reg_asym_sam_26_avg_mean vs run
χ² / ndf 89.87 / 86
p0 −11.23 ± 99.3
pull
Entries 87
Mean 148.8
Std Dev 0

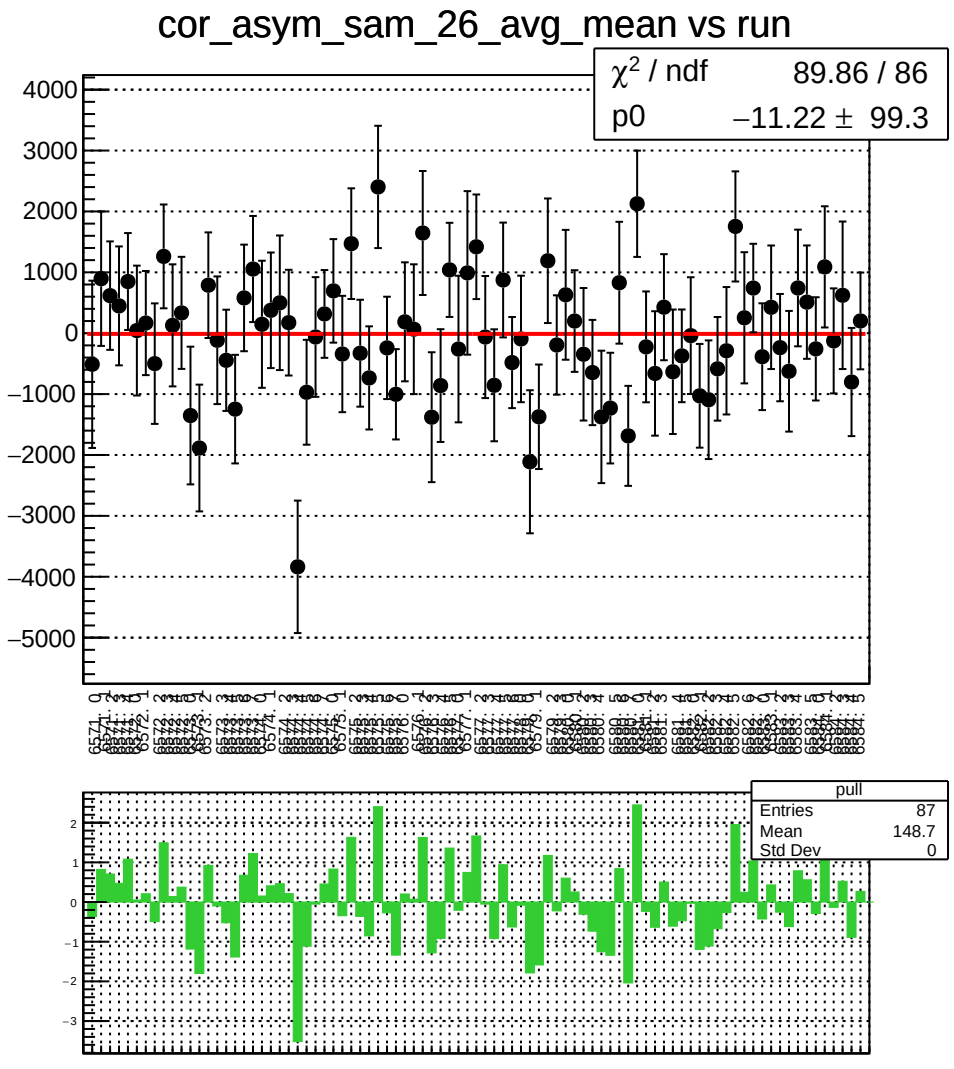

pull1D
Entries 87
Mean −0.0096
Std Dev 1.016

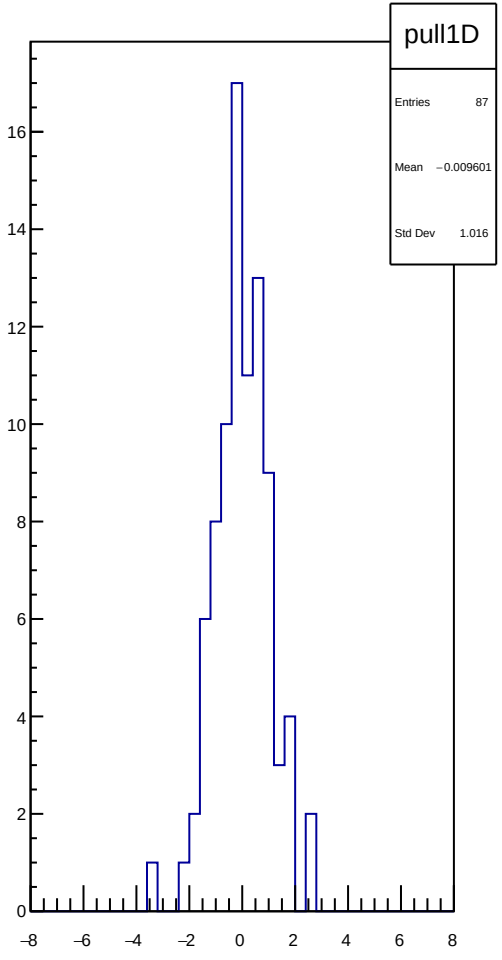

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.962e+04 / 86
p0 90.66 ± 0.07021
130
120
110
100
90
80

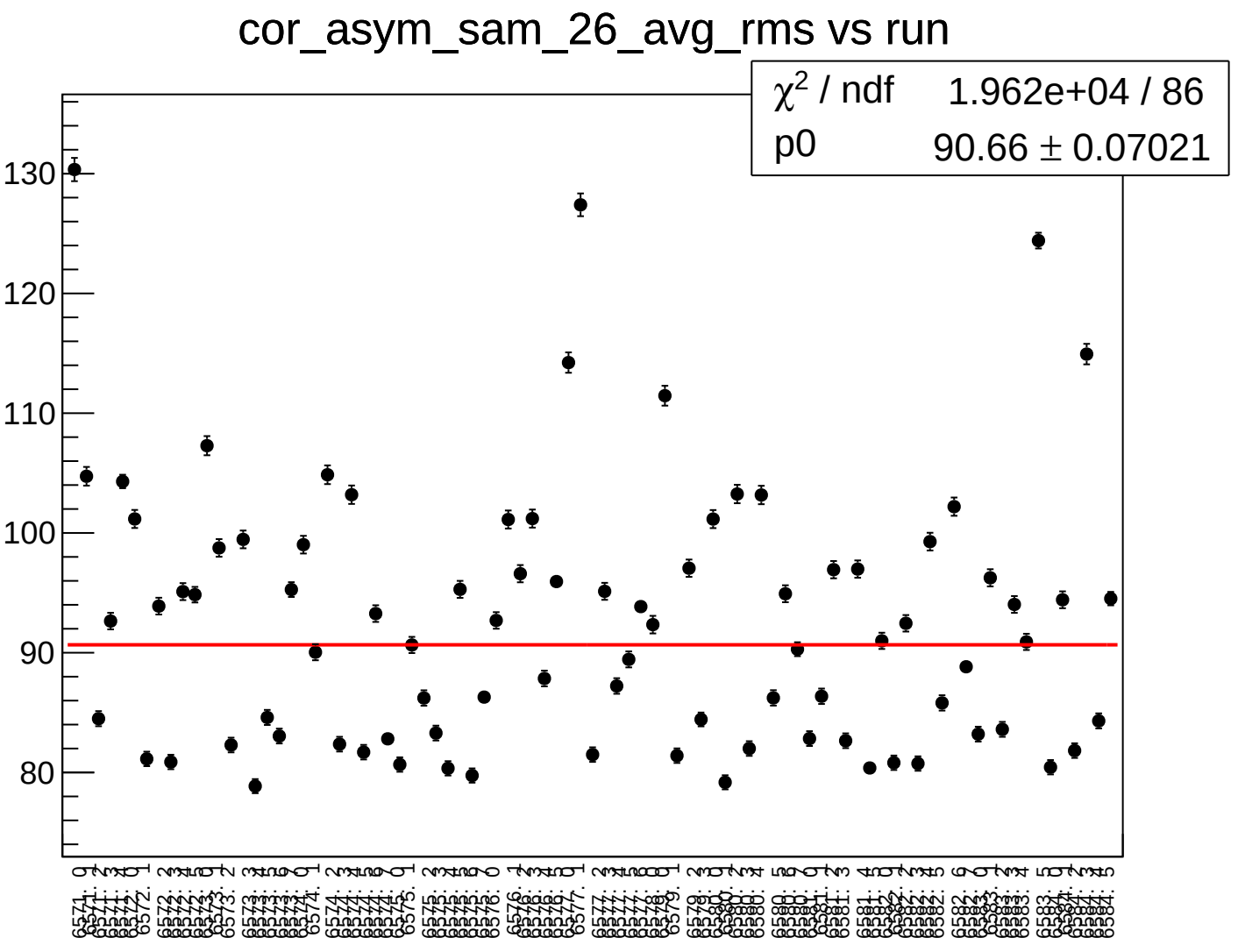

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 102.7 / 86
p0 −1244 ± 622.4
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 455.5
Std Dev 0
2
1
0
−1
−2

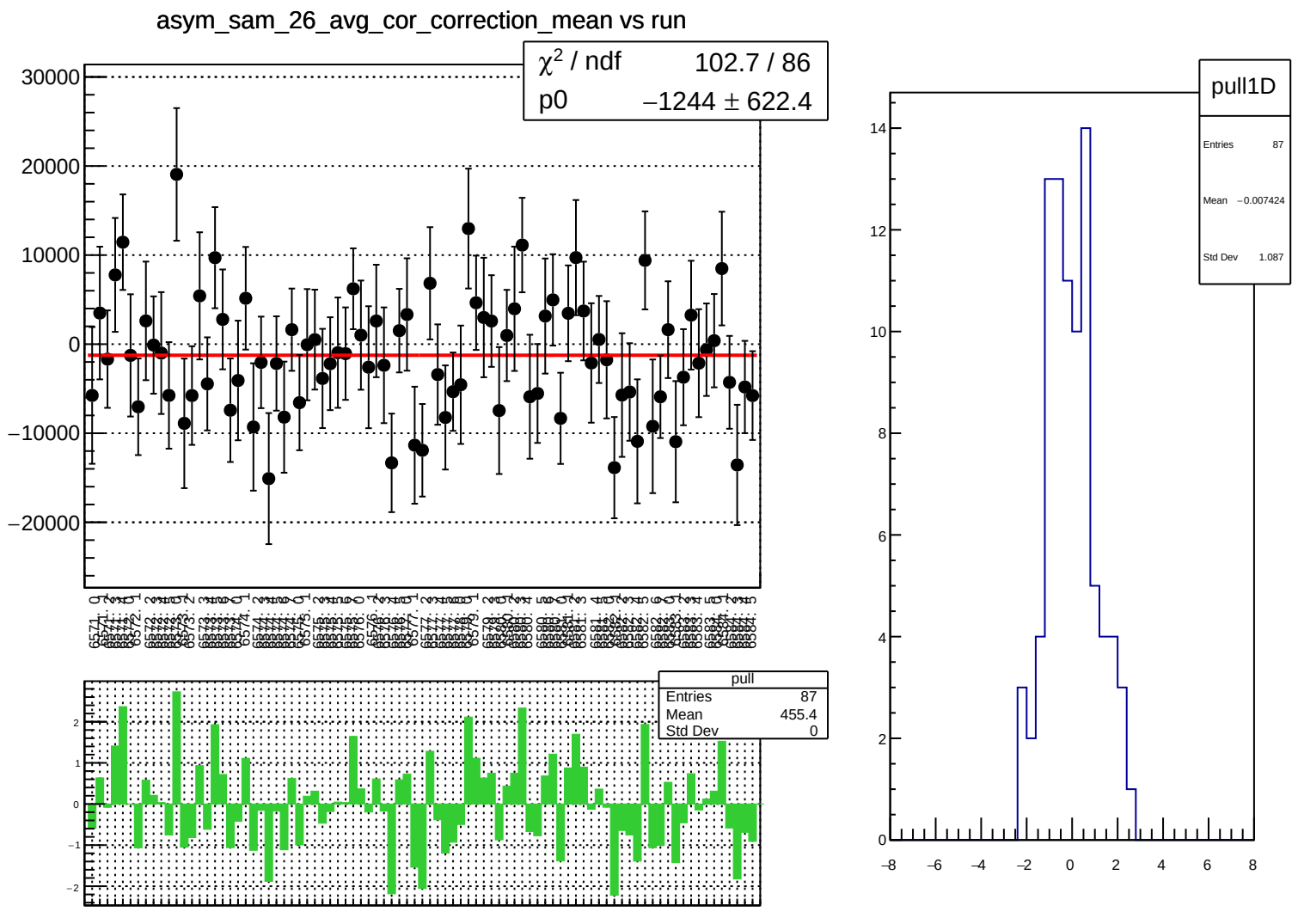

pull1D
Entries 87
Mean −0.007423
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

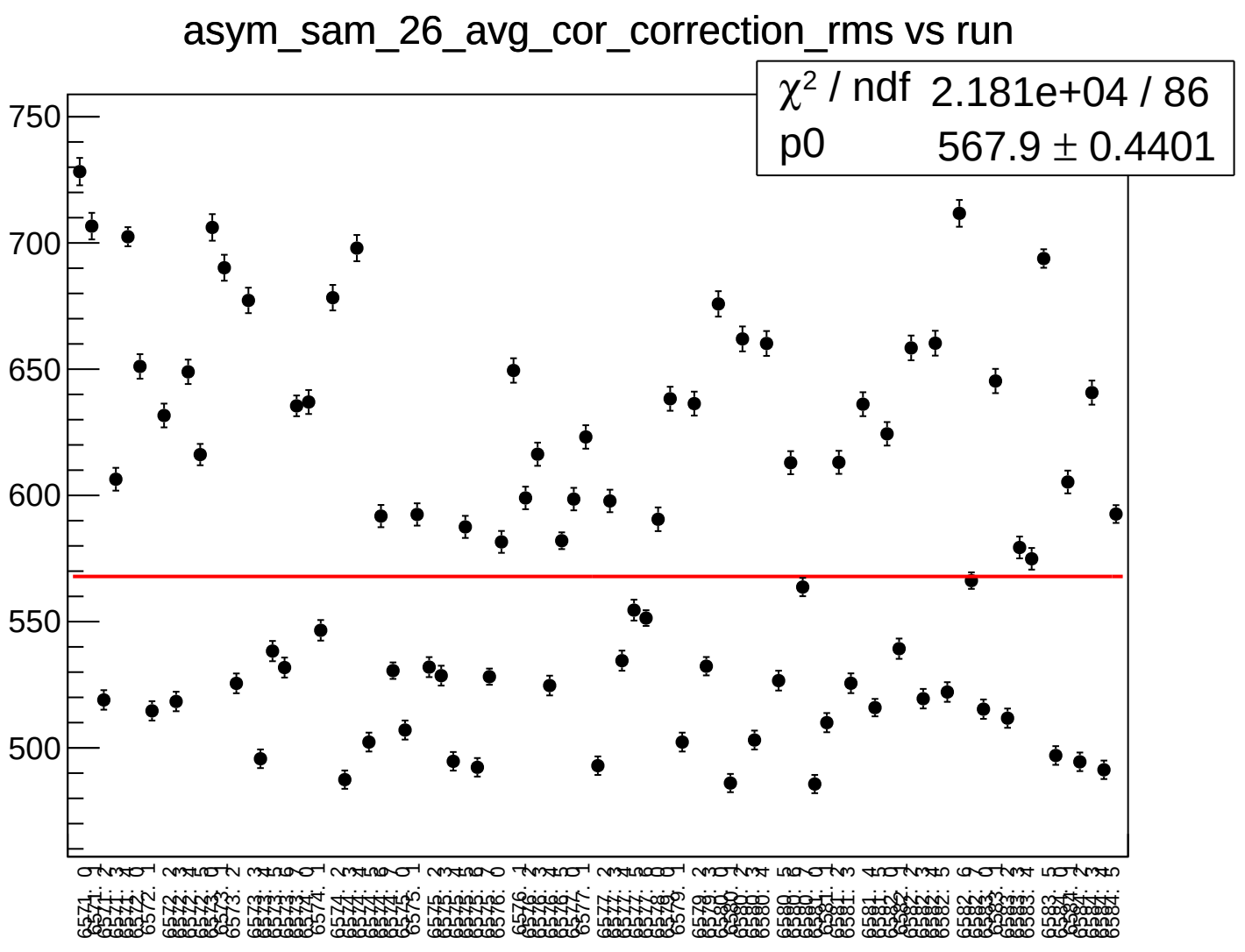

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 2.181e+04 / 86
p0 567.9 ± 0.4401
750
700
650
600
550
500

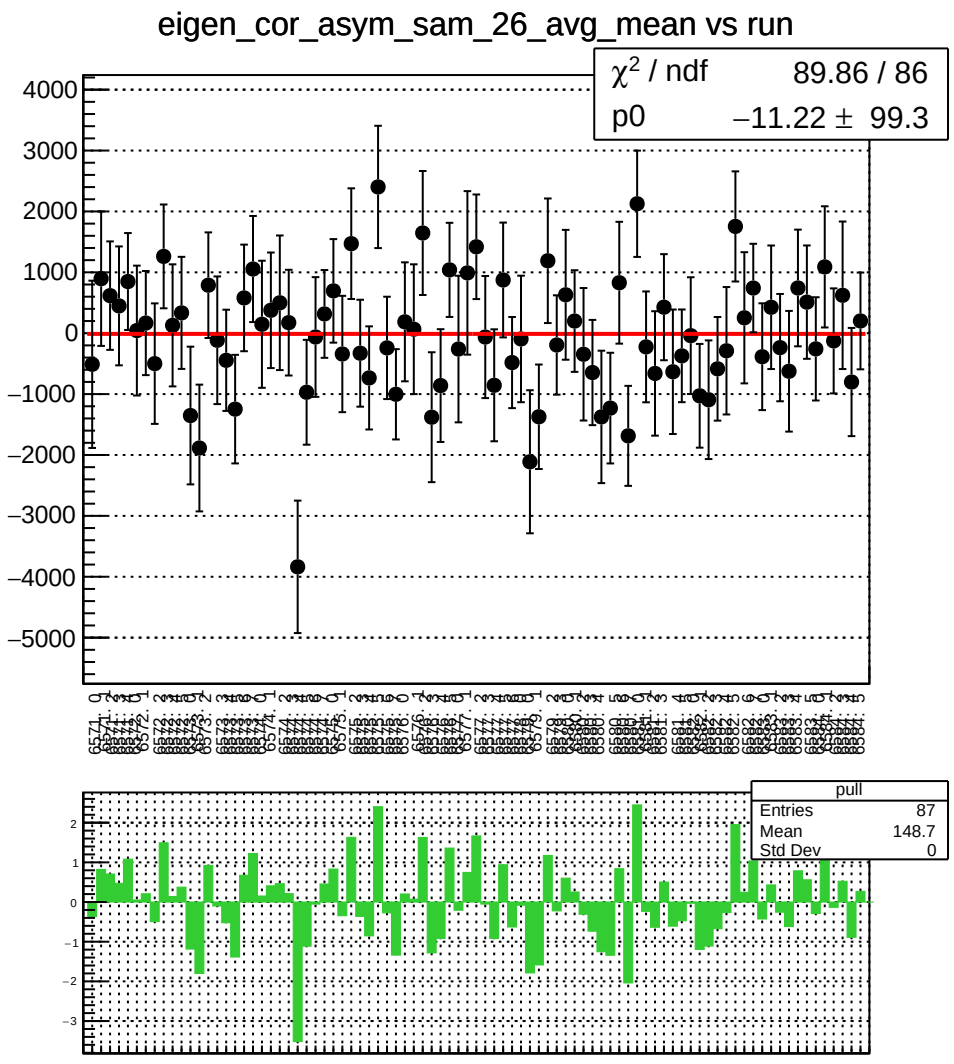

cor_asym_sam_26_avg_mean vs run
χ² / ndf 89.86 / 86
p0 −11.22 ± 99.3
pull
Entries 87
Mean 148.7
Std Dev 0

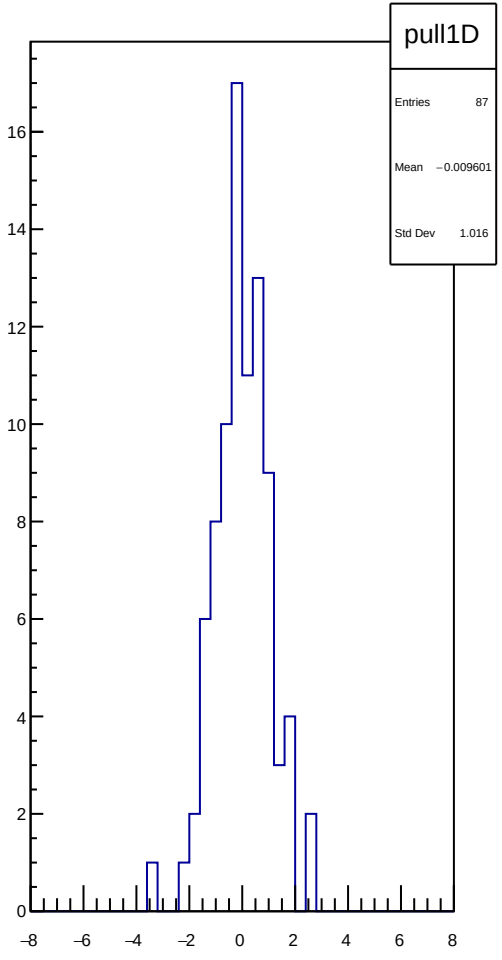

pull1D
Entries 87
Mean −0.009601
Std Dev 1.016

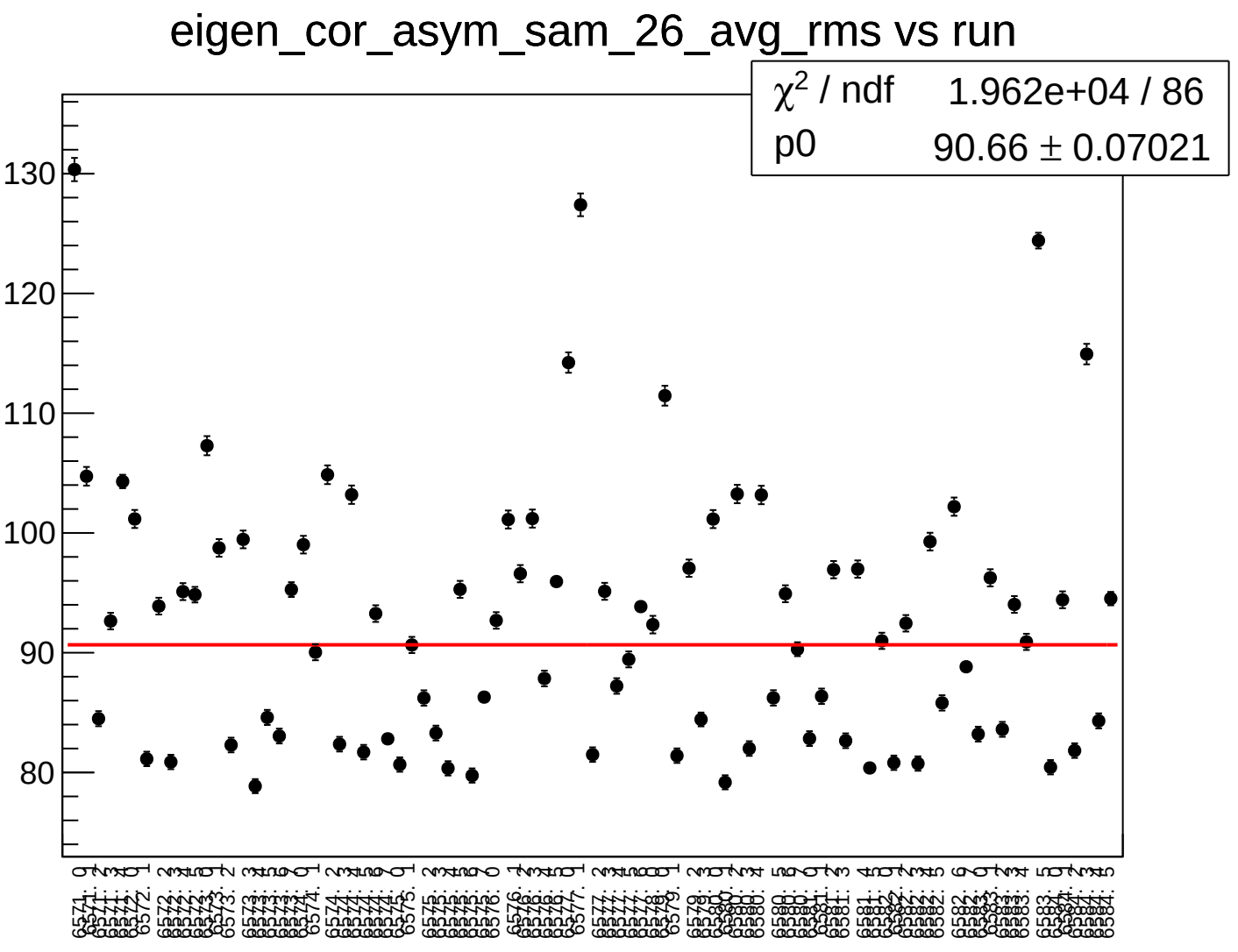

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.962e+04 / 86
p0 90.66 ± 0.07021
130
120
110
100
90
80

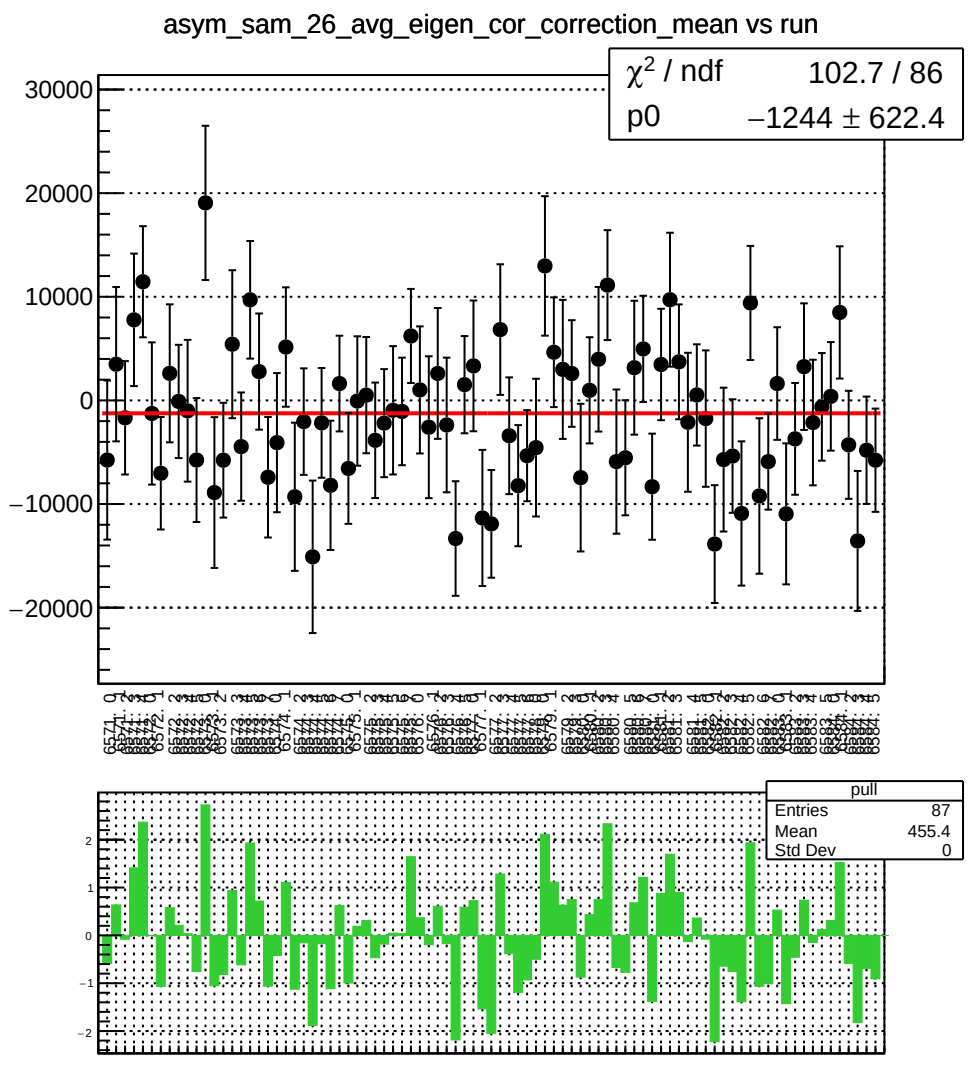

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 102.7 / 86
p0 −1244 ± 622.4
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 455.4
Std Dev 0
pull1D
Entries 87
Mean −0.007424
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

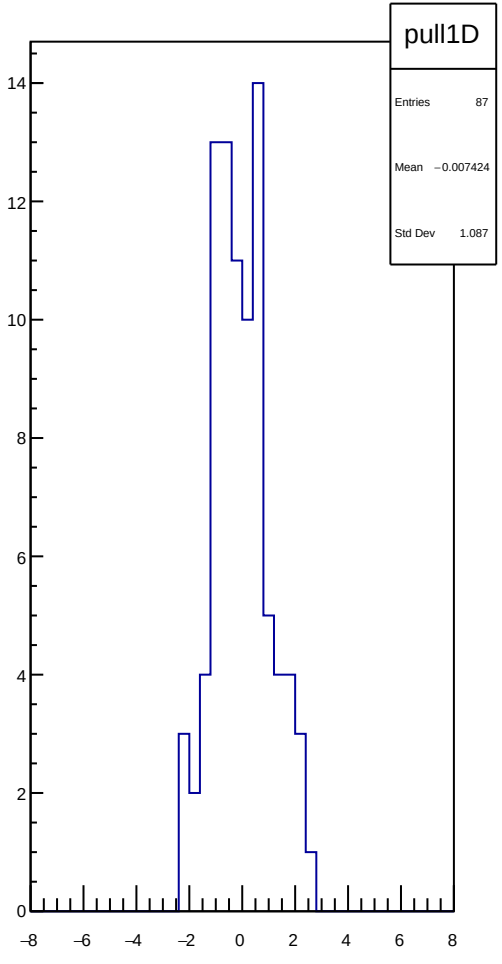

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 2.181e+04 / 86
p0 567.9 ± 0.4401
750
700
650
600
550
500

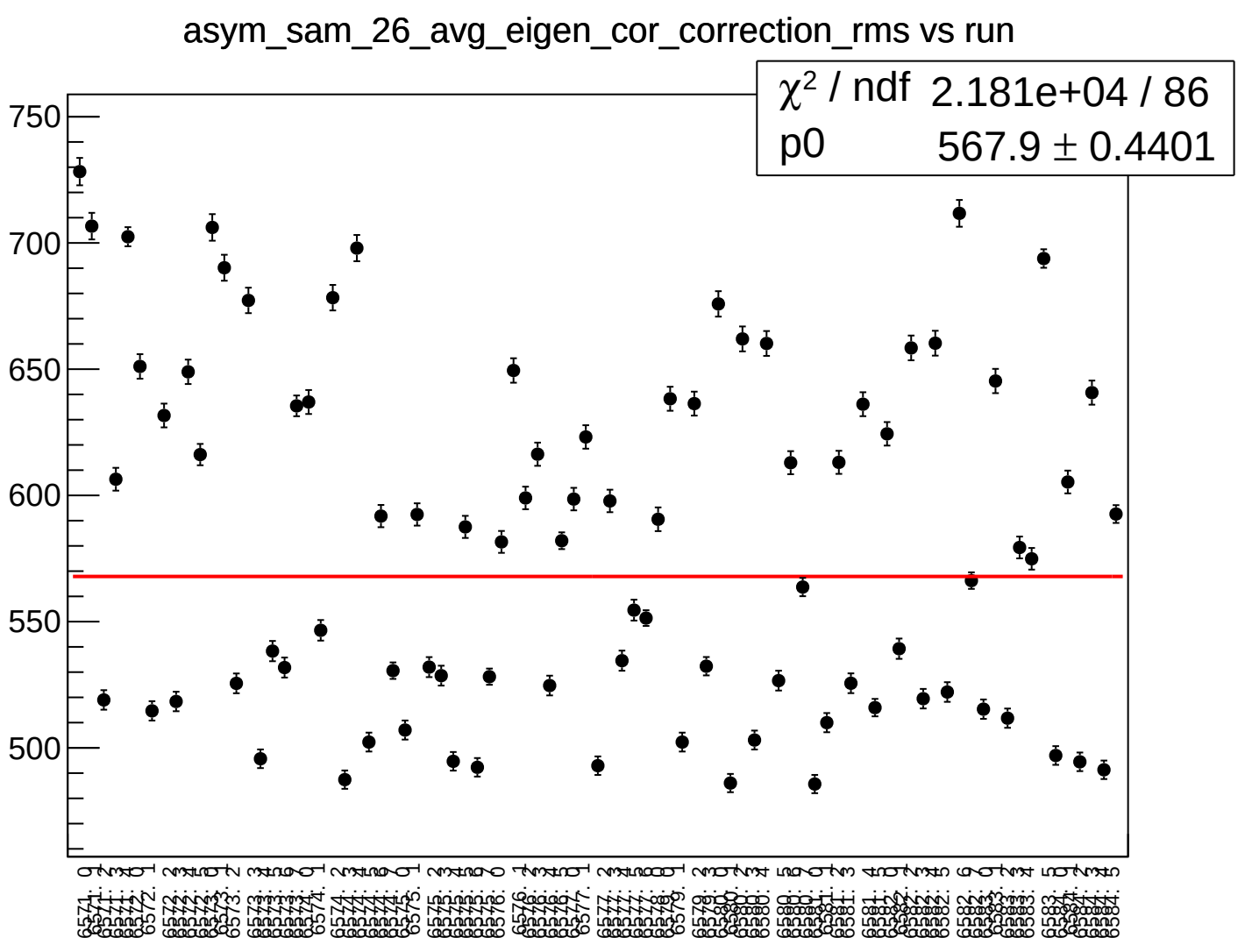

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 89.86 / 86
p0 −11.22 ± 99.3
pull
Entries 87
Mean 148.7
Std Dev 0

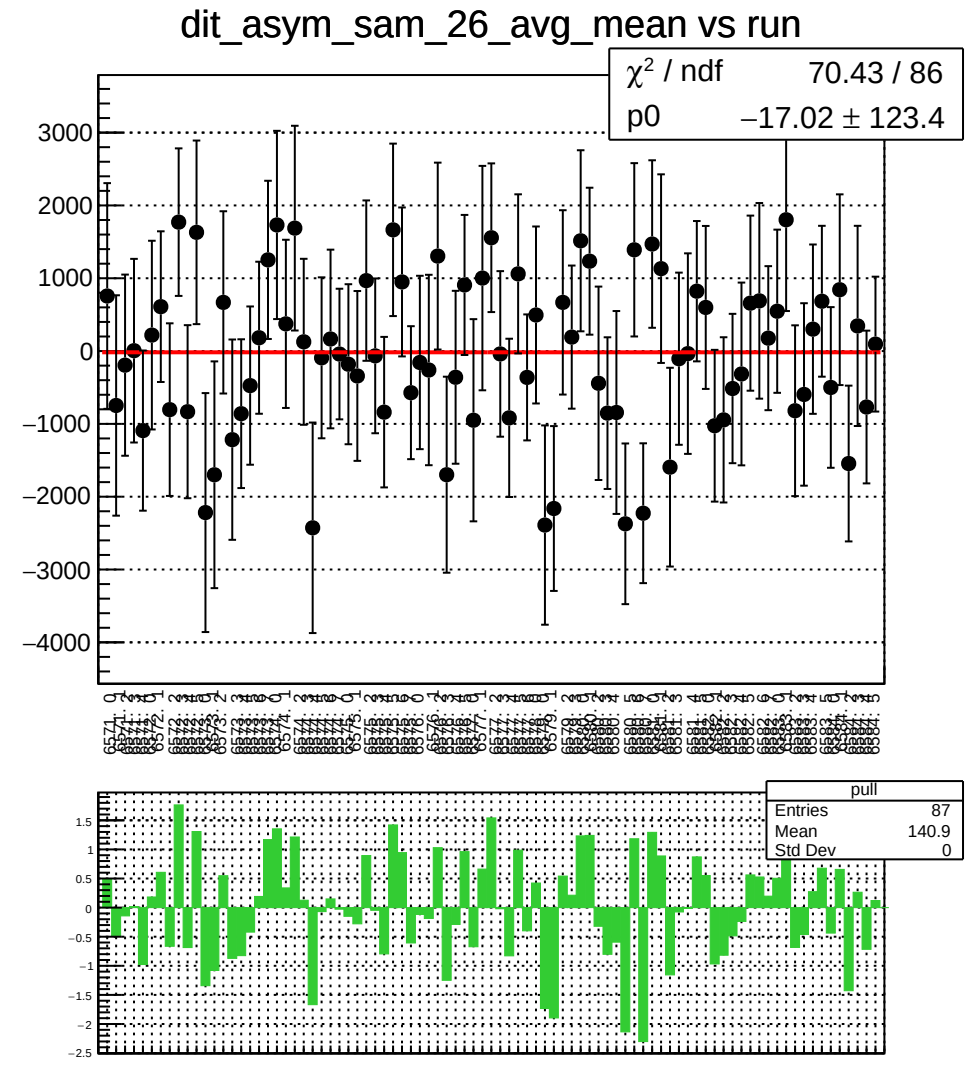

pull1D
Entries 87
Mean −0.009601
Std Dev 1.016

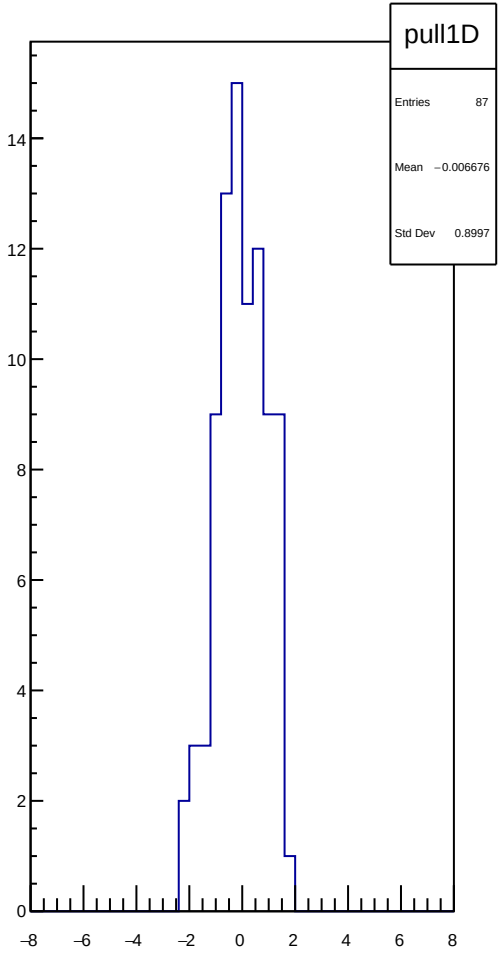

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.962e+04 / 86
p0 90.66 ± 0.07021
130
120
110
100
90
80

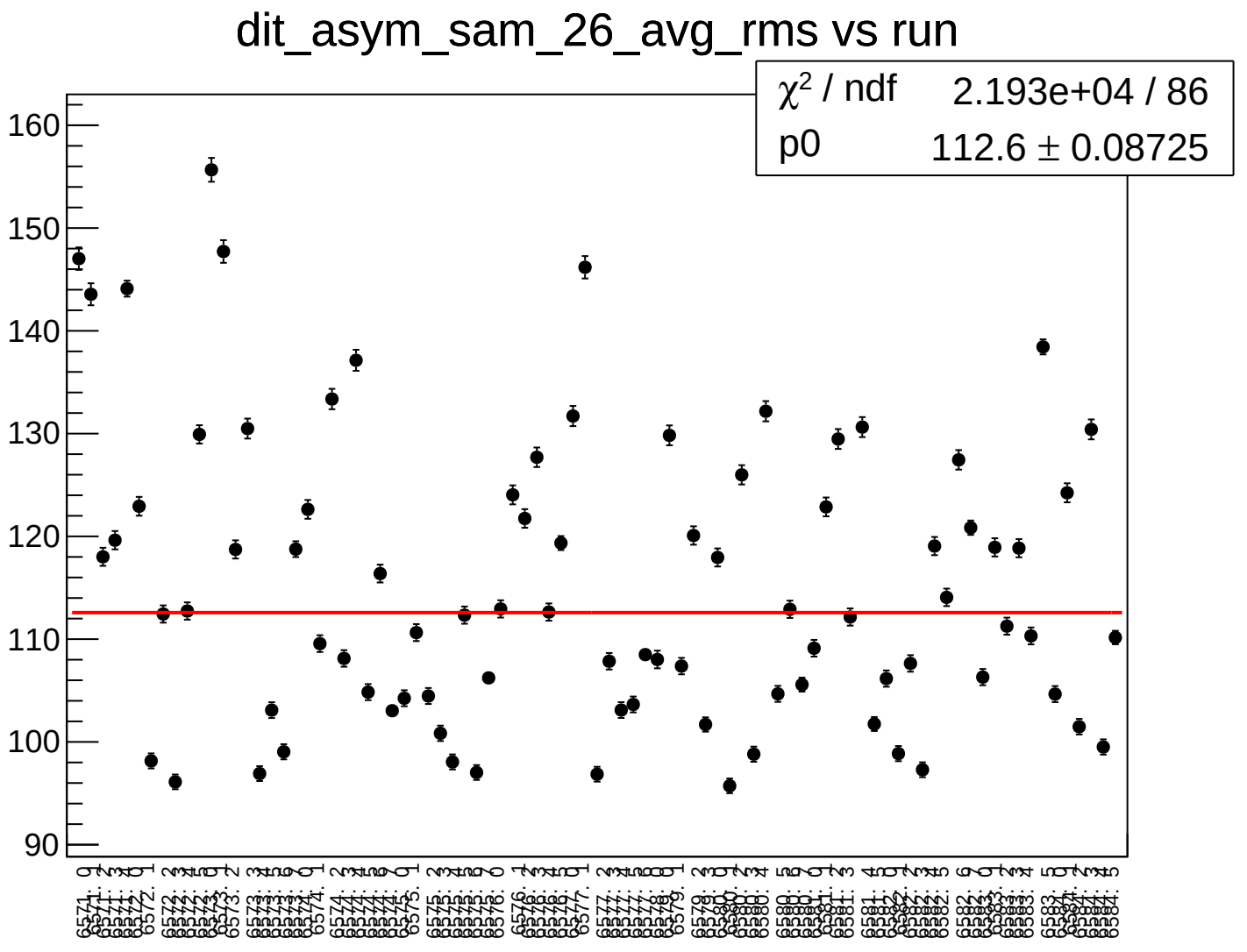

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.7 / 86
p0 −1244 ± 622.4
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 455.4
Std Dev 0
2
1
0
−1
−2

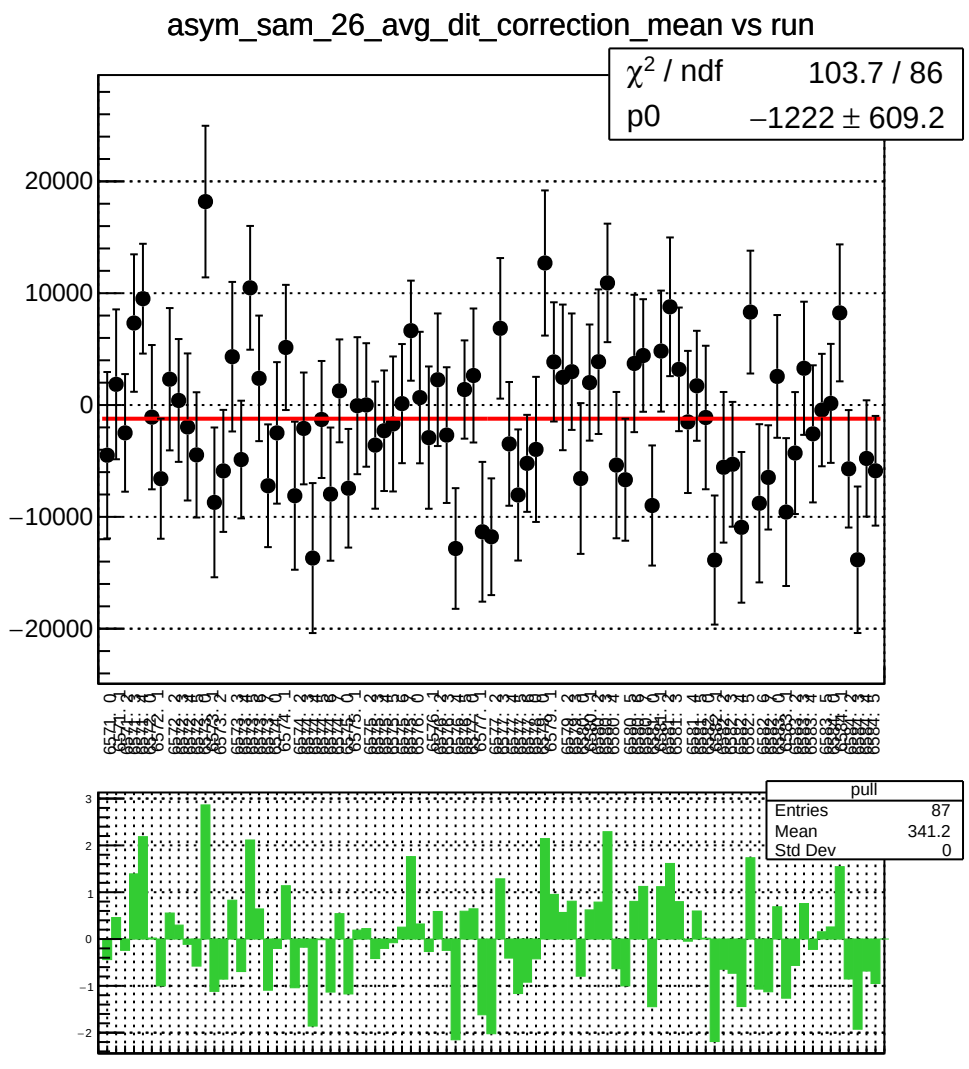

pull1D
Entries 87
Mean −0.007424
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

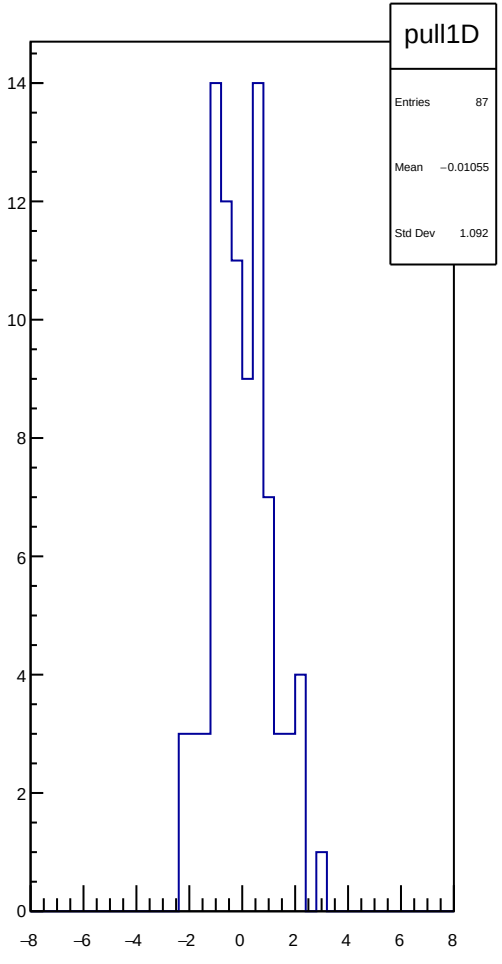

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.181e+04 / 86
p0 567.9 ± 0.4401
750
700
650
600
550
500

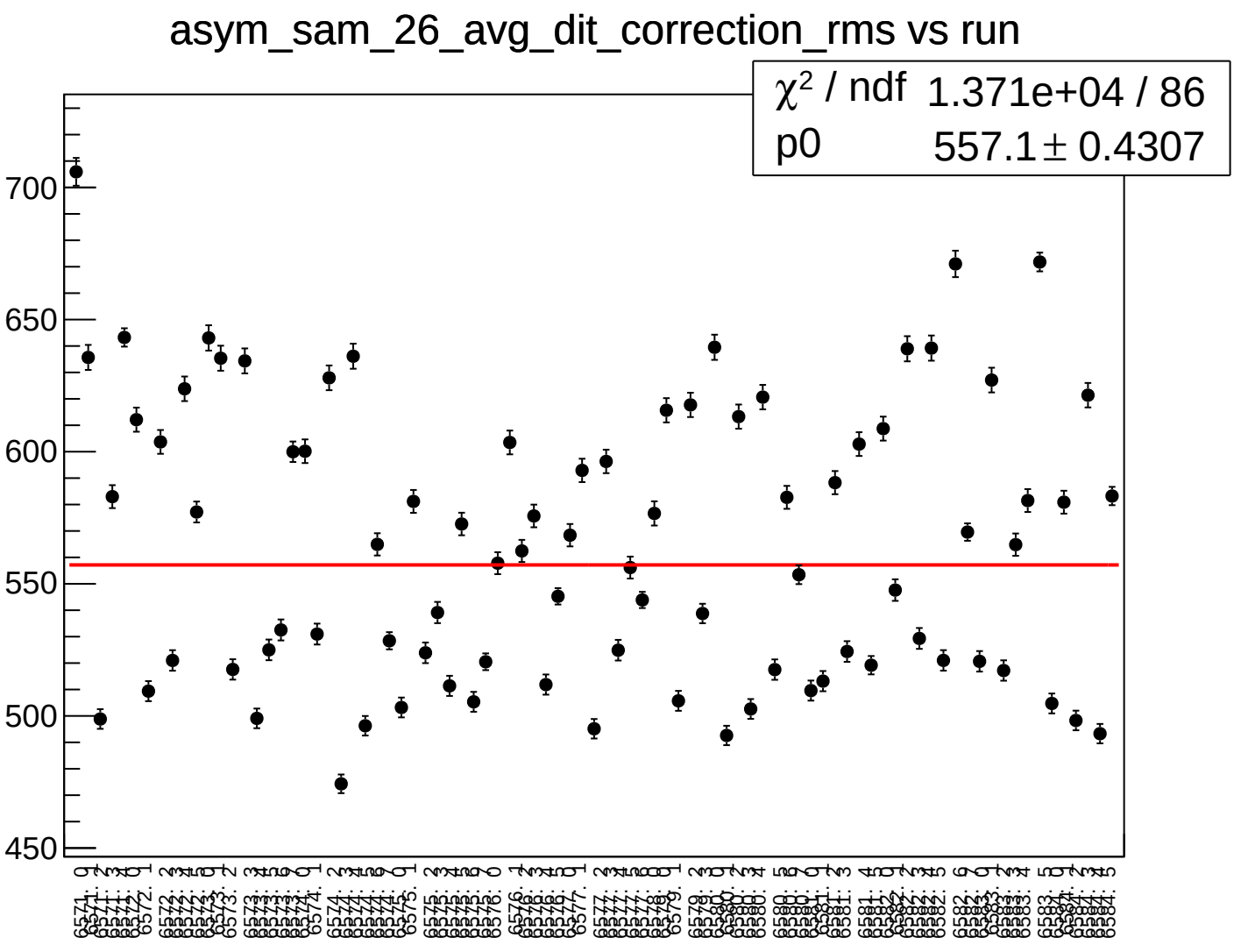

dit_asym_sam_26_avg_mean vs run
χ² / ndf 70.43 / 86
p0 −17.02 ± 123.4
pull
Entries 87
Mean 140.9
Std Dev 0

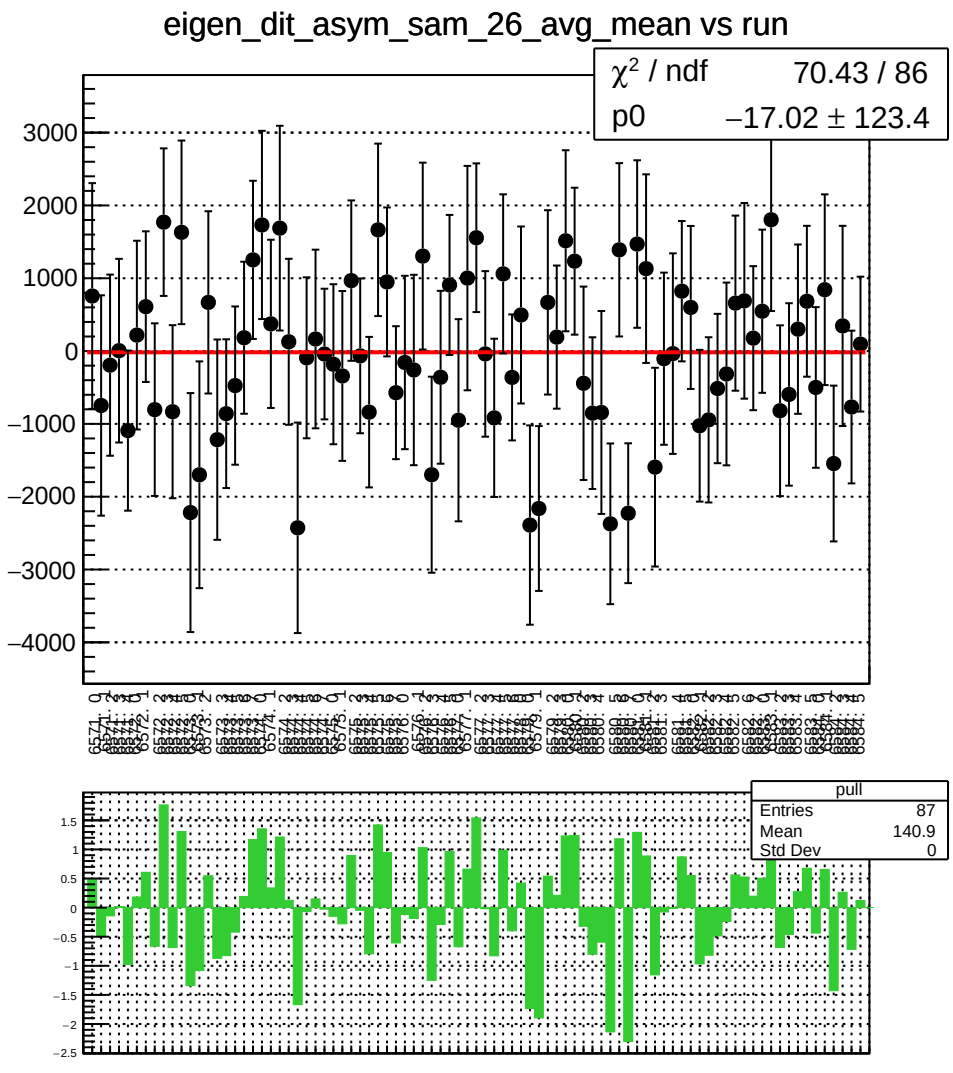

pull1D
Entries 87
Mean −0.006676
Std Dev 0.8997

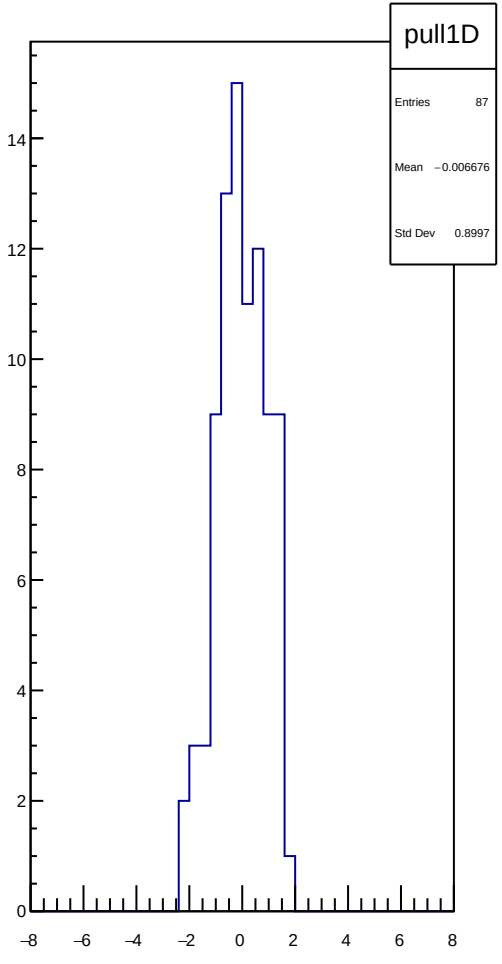

dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.193e+04 / 86
p0 112.6 ± 0.08725
160
150
140
130
120
110
100
90

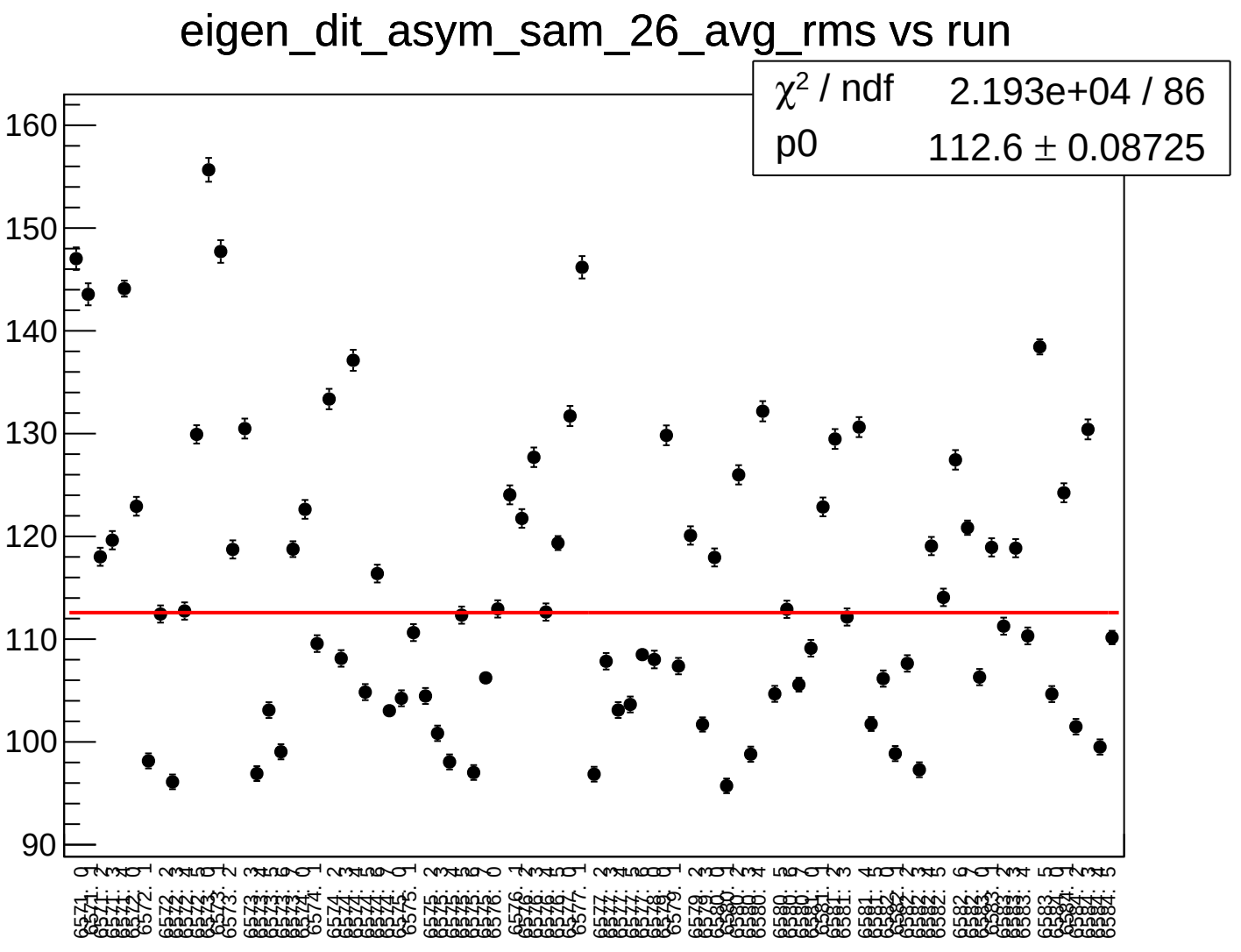

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 103.7 / 86
p0 −1222 ± 609.2
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 341.2
Std Dev 0
3
2
1
0
−1
−2

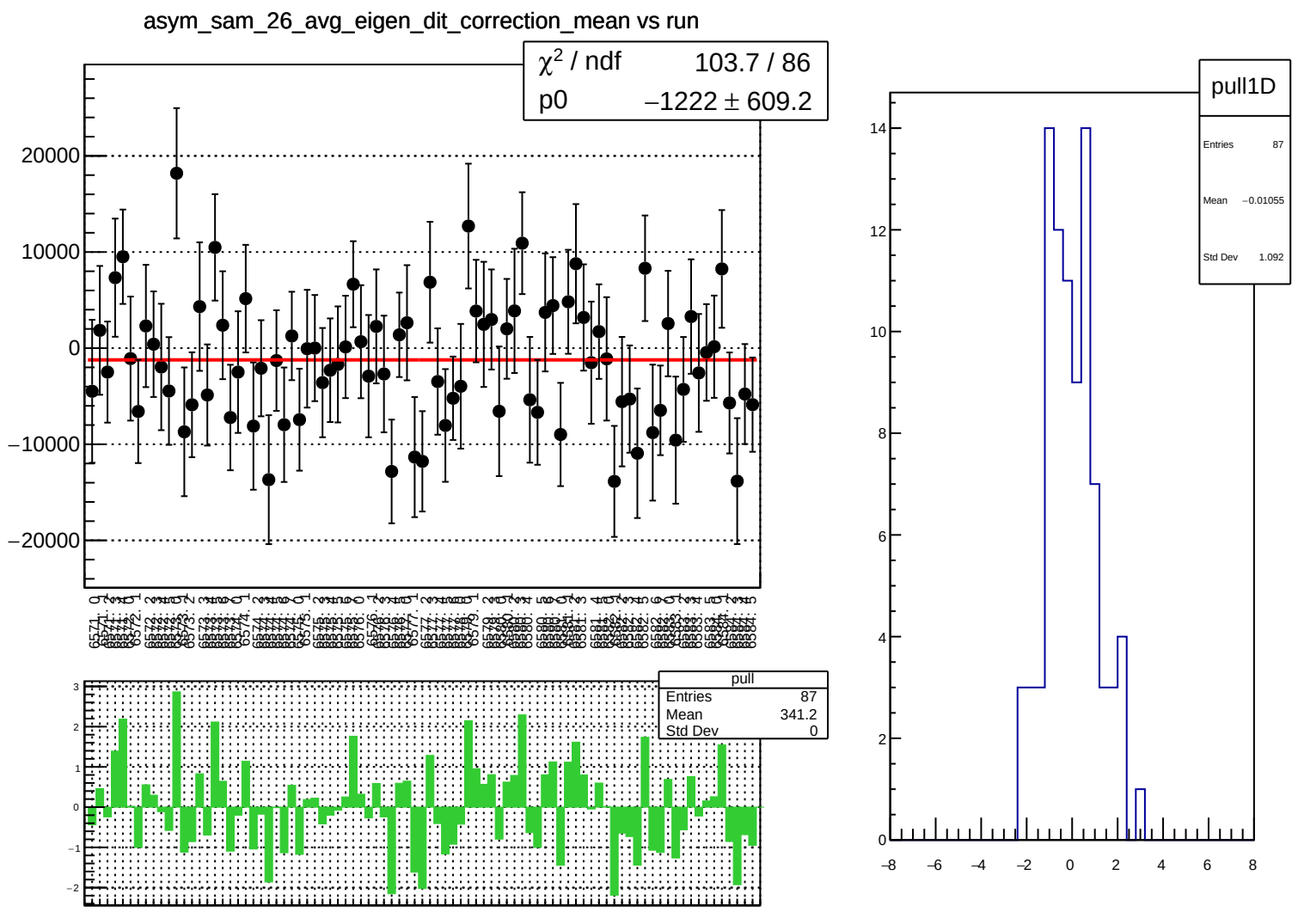

pull1D
Entries 87
Mean −0.01055
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

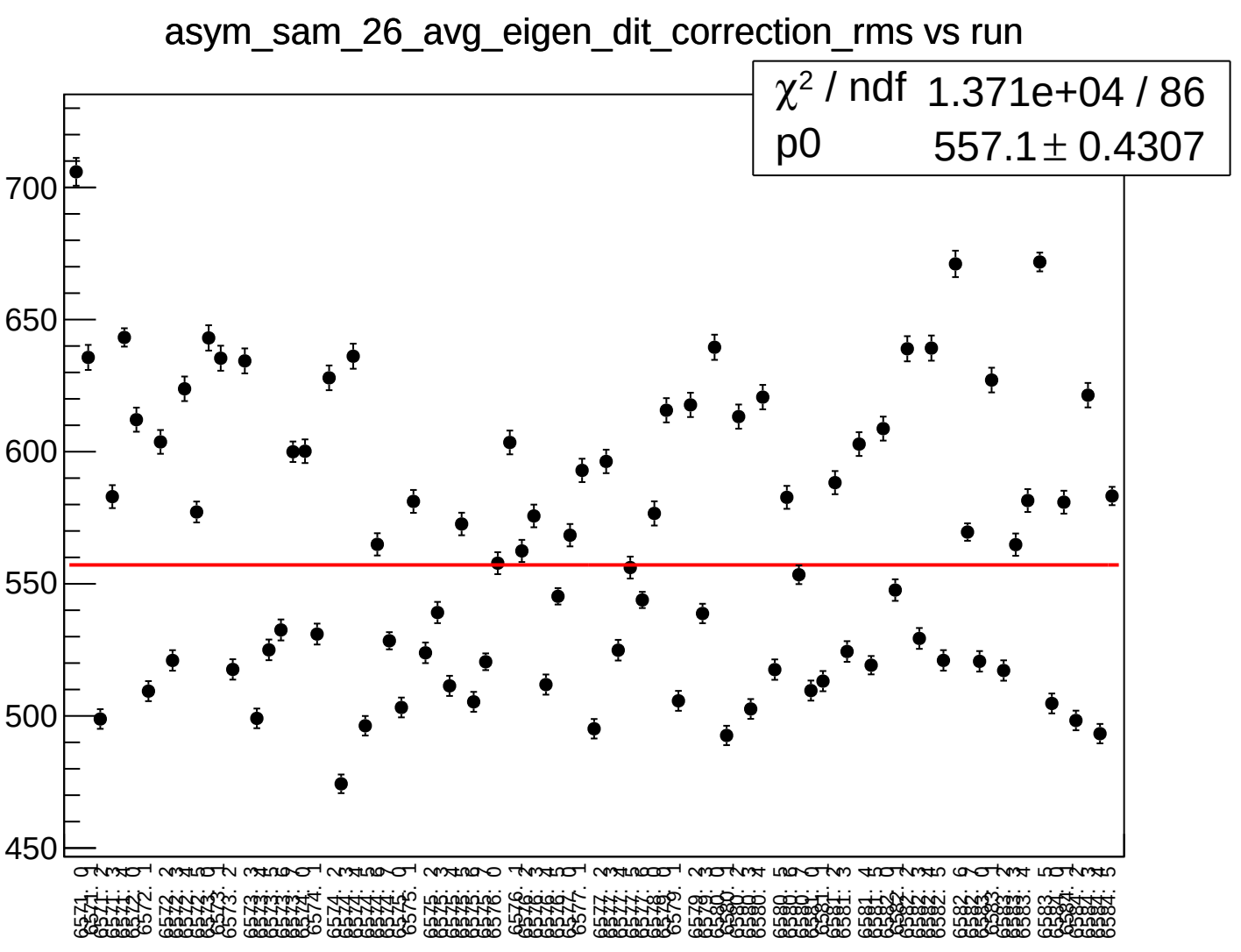

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.371e+04 / 86
p0 557.1 ± 0.4307
700
650
600
550
500
450

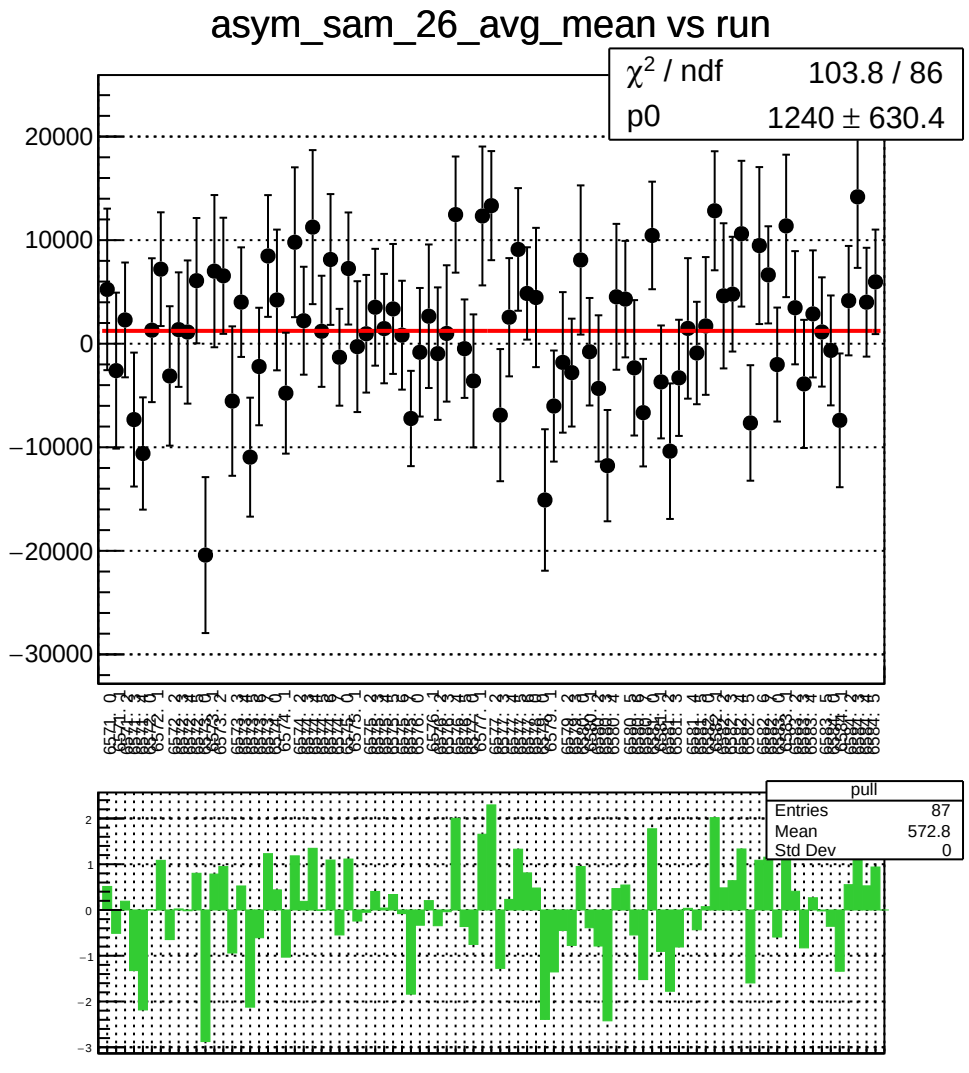

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 70.43 / 86
p0 −17.02 ± 123.4
pull
Entries 87
Mean 140.9
Std Dev 0

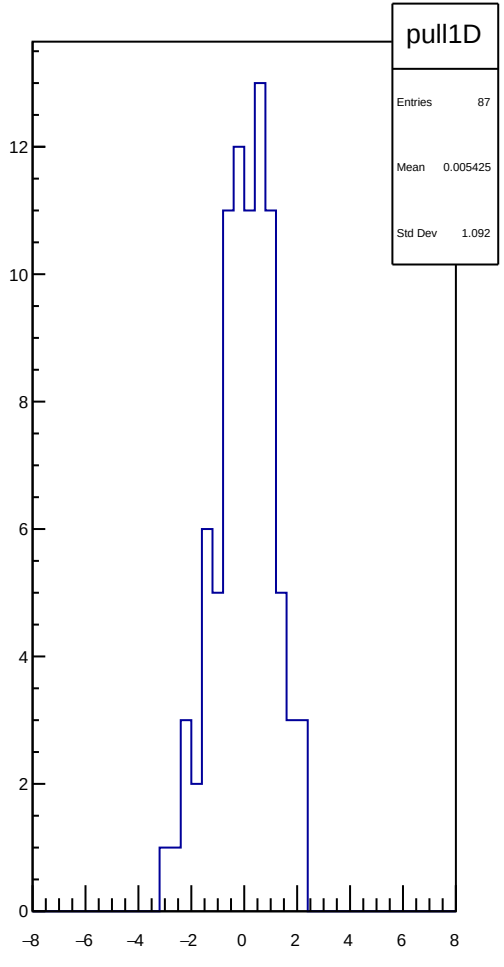

pull1D
Entries 87
Mean −0.006676
Std Dev 0.8997

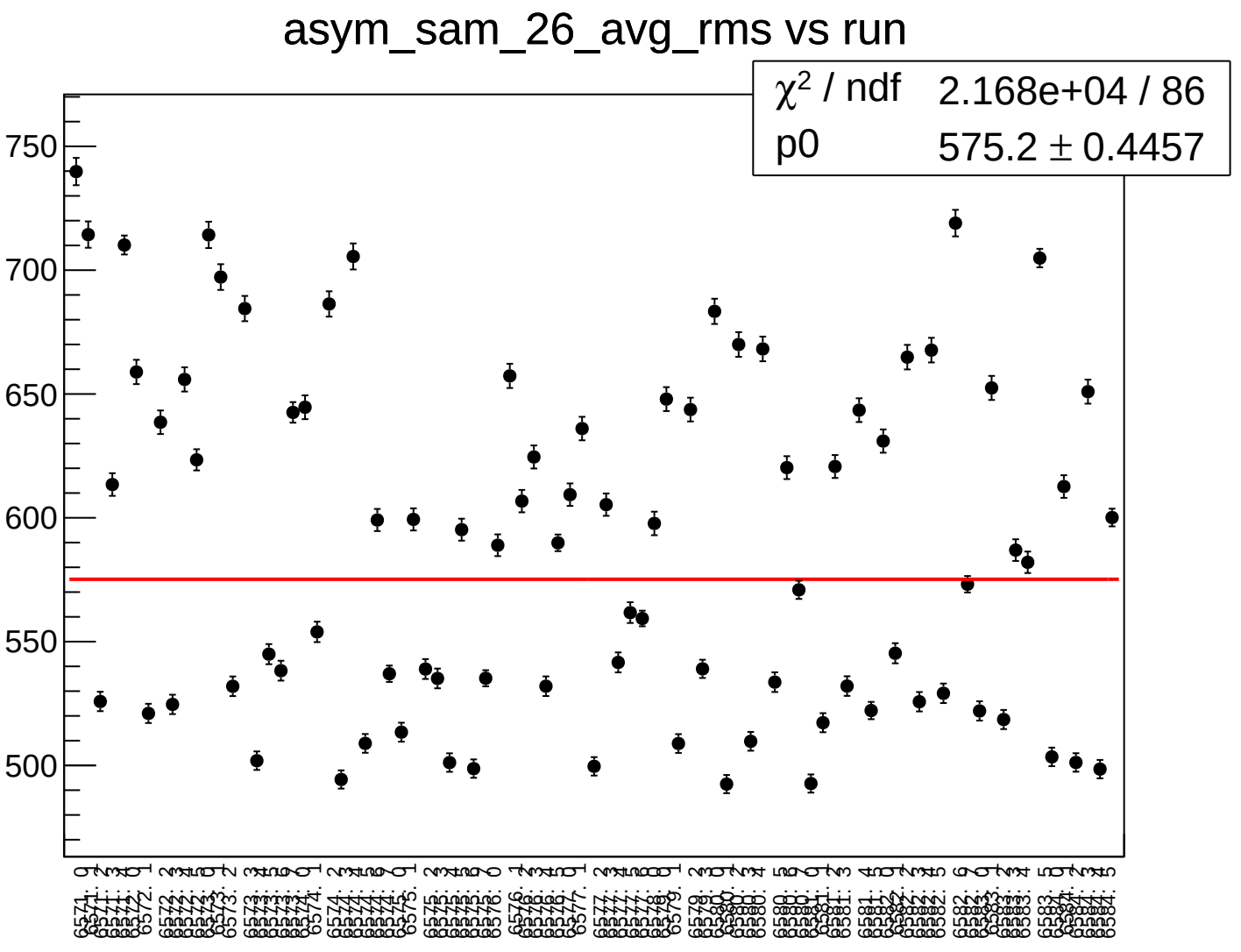

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.193e+04 / 86
p0 112.6 ± 0.08725
160
150
140
130
120
110
100
90

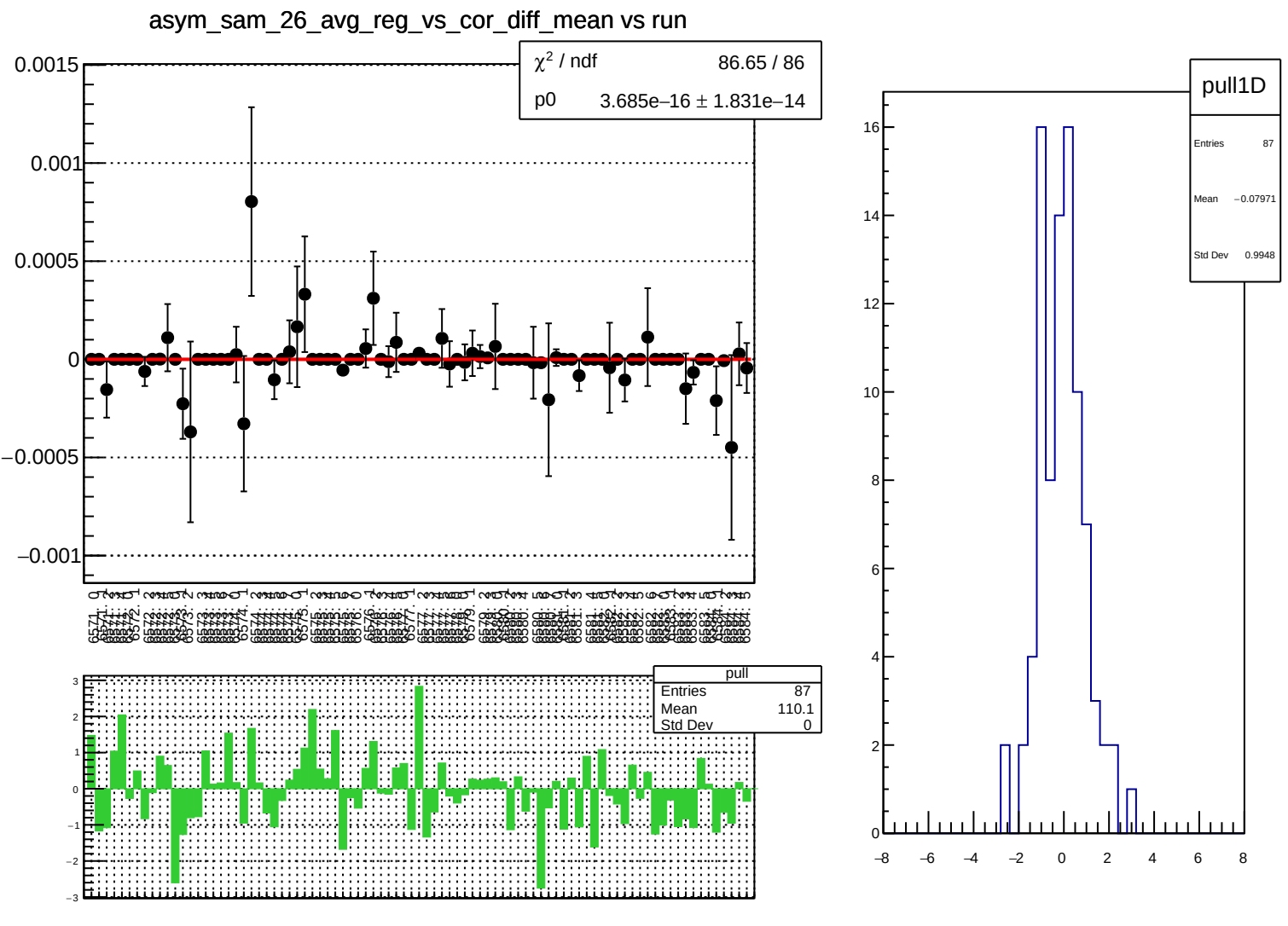

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 103.7 / 86
p0 −1222 ± 609.2
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 341.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01055
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

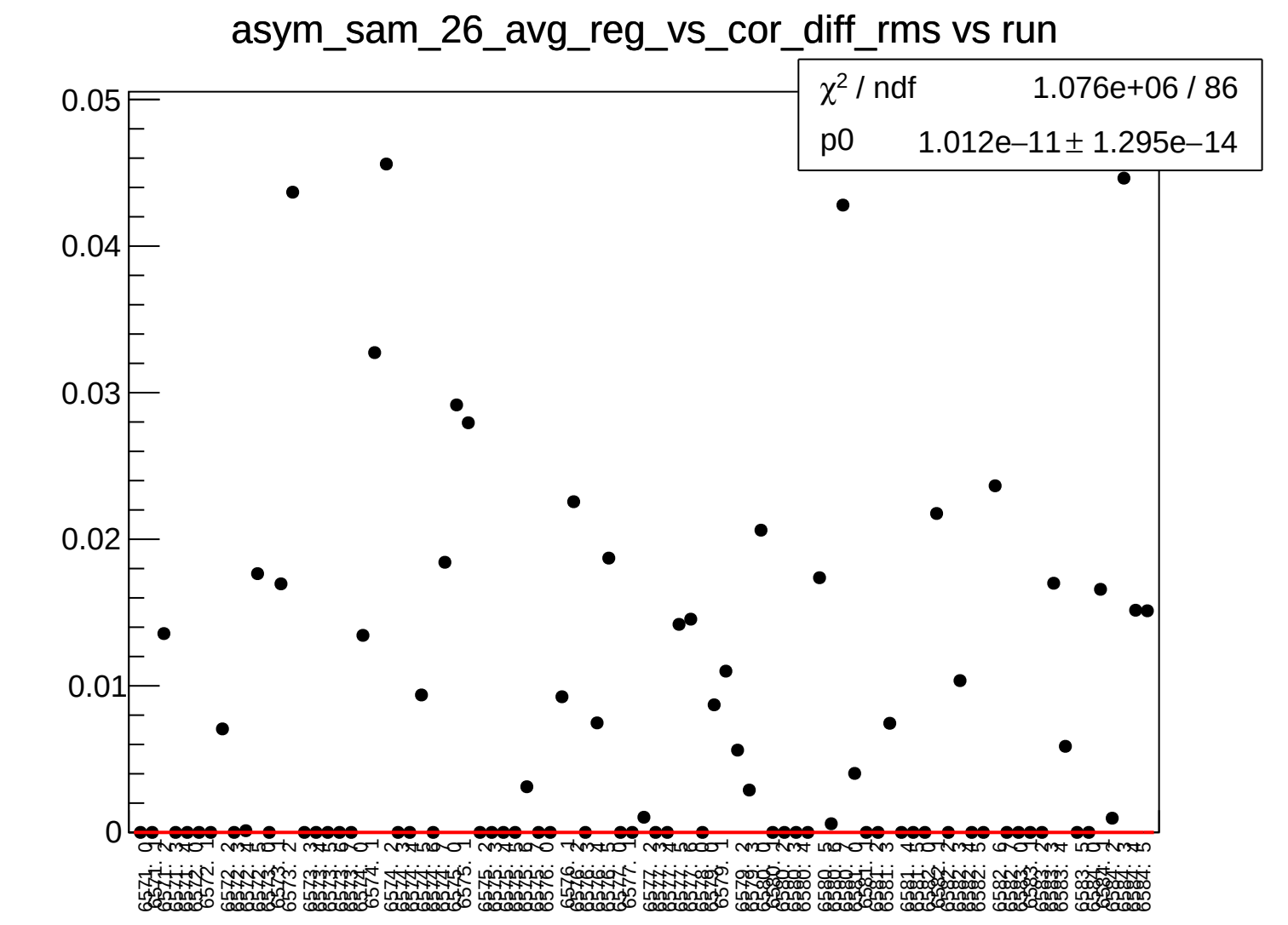

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.371e+04 / 86
p0 557.1 ± 0.4307
700
650
600
550
500
450

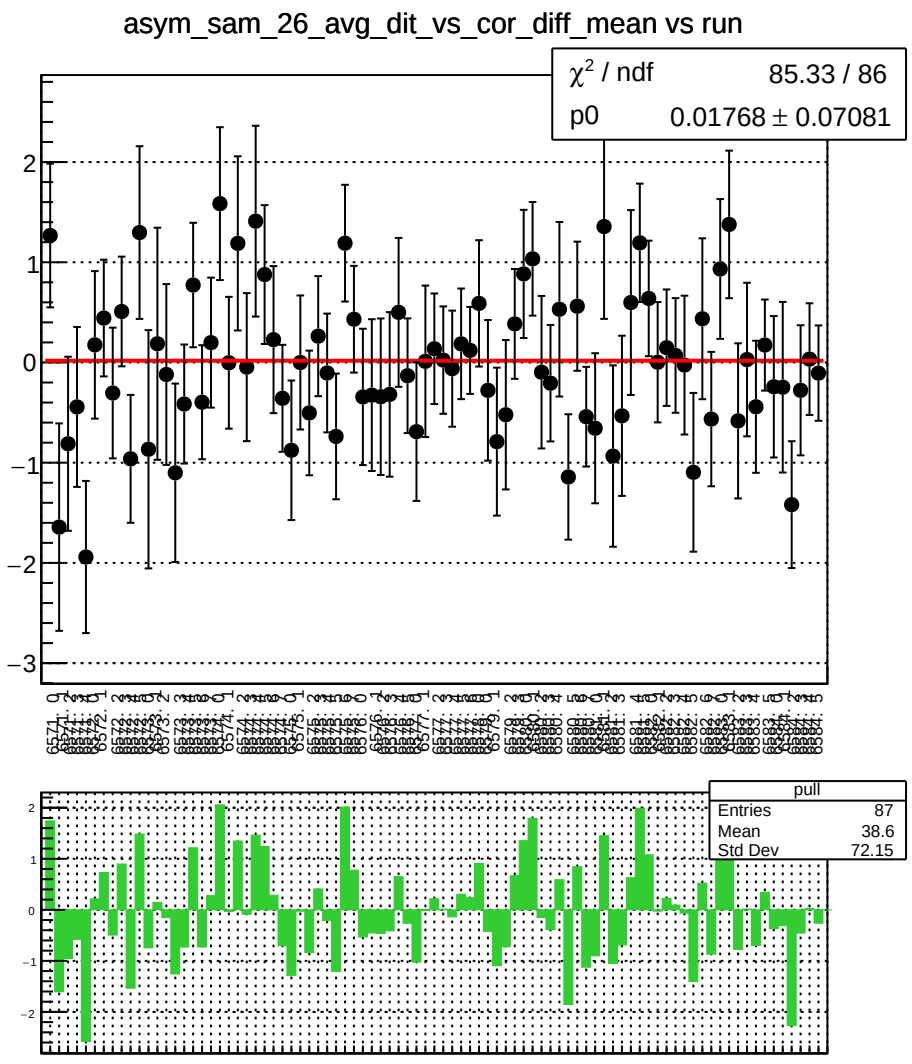

asym_sam_26_avg_mean vs run
χ² / ndf 103.8 / 86
p0 1240 ± 630.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 572.8
Std Dev 0
2
1
0
−1
−2
−3

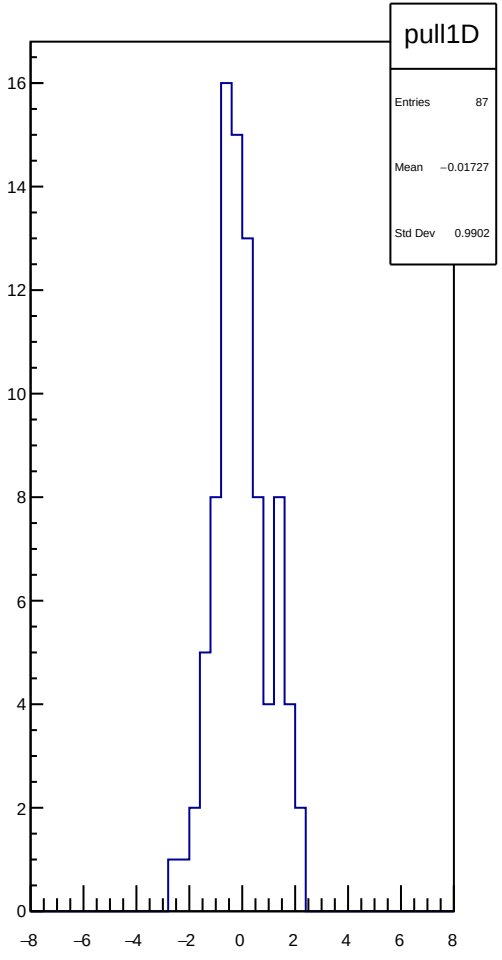

pull1D
Entries 87
Mean 0.005425
Std Dev 1.092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

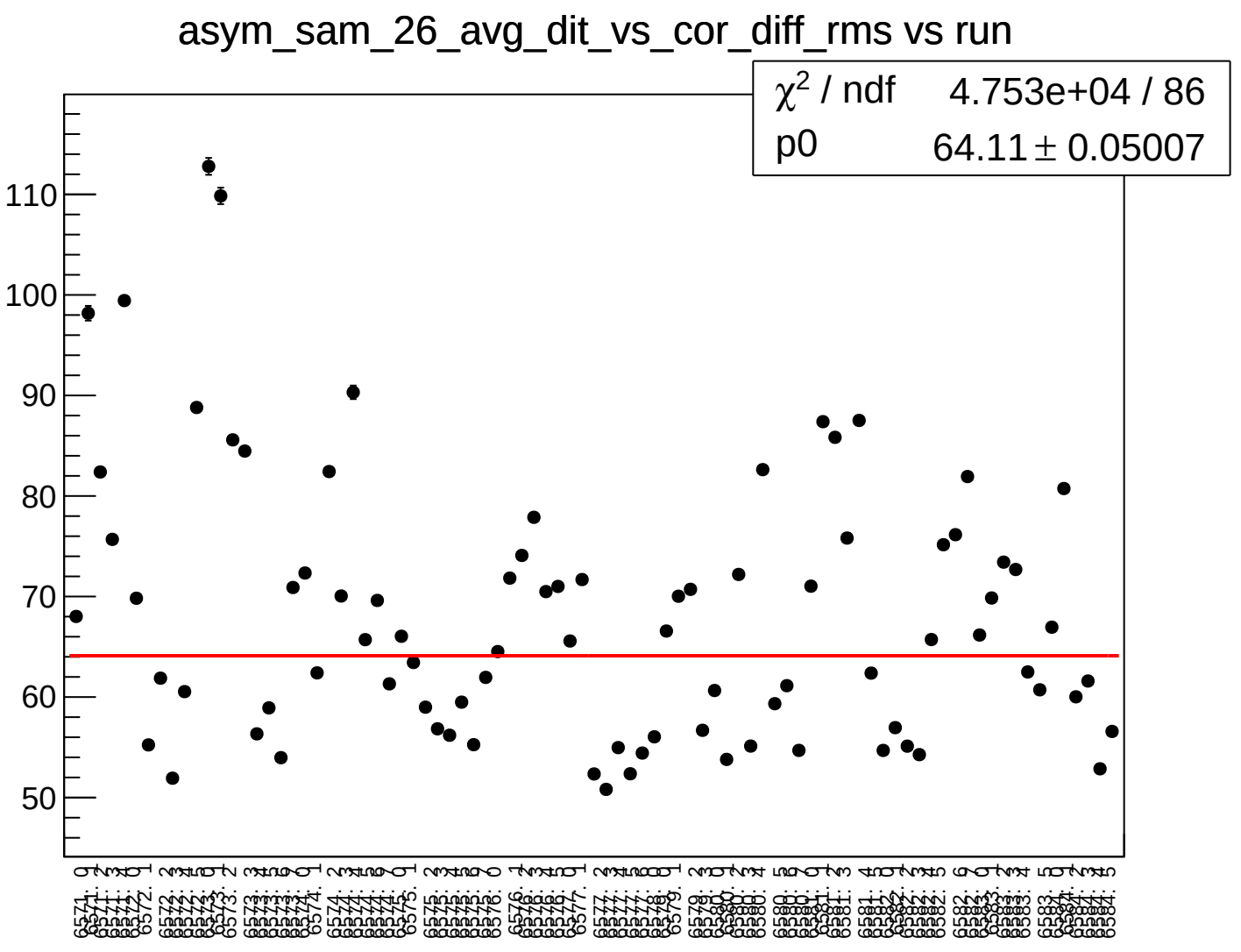

asym_sam_26_avg_rms vs run
χ² / ndf 2.168e+04 / 86
p0 575.2 ± 0.4457
750
700
650
600
550
500

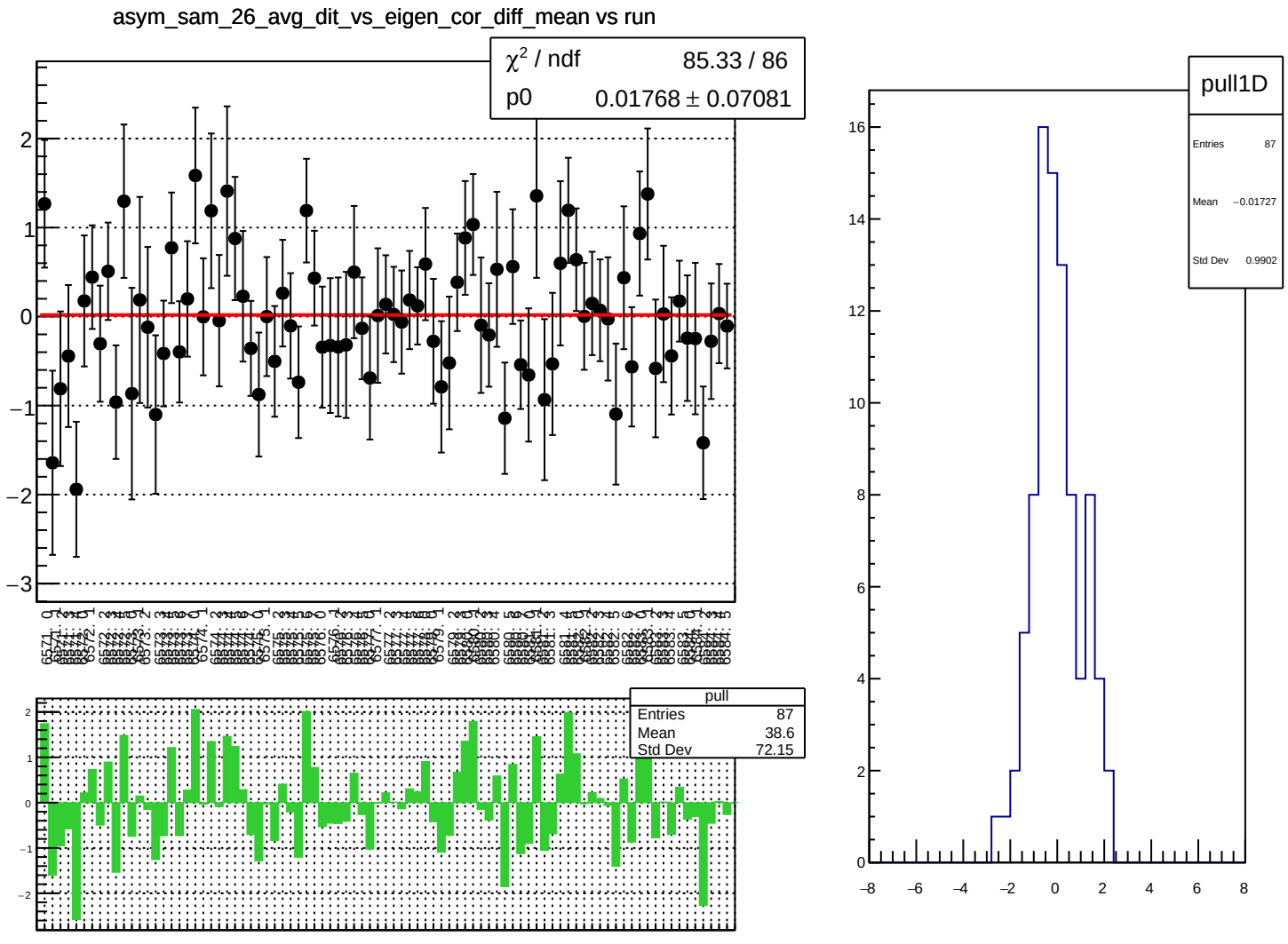

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 86
p0 3.685e−16 ± 1.831e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 110.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.07971
Std Dev 0.9948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

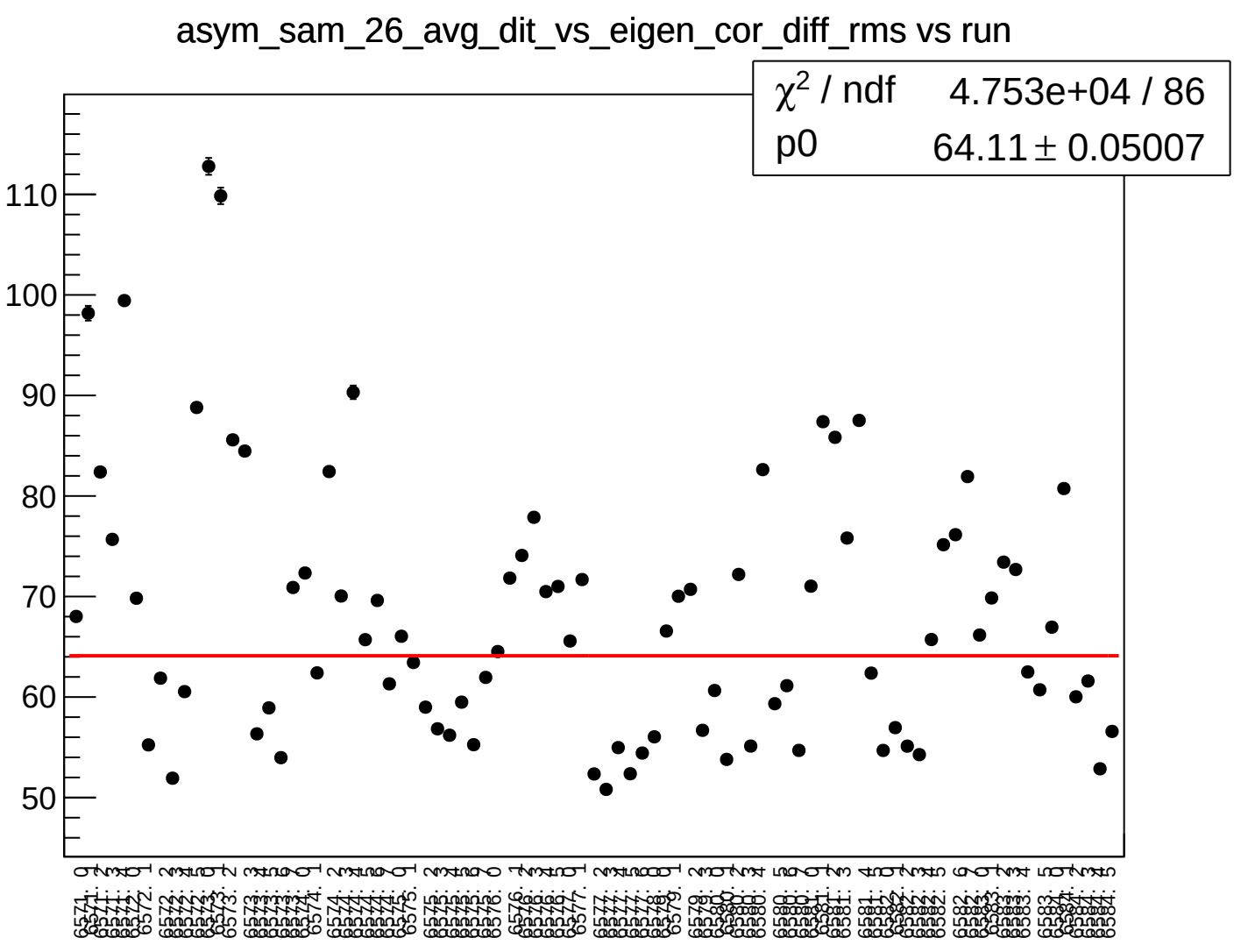

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.076e+06 / 86
p0 1.012e−11 ± 1.295e−14
0.05
0.04
0.03
0.02
0.01
0

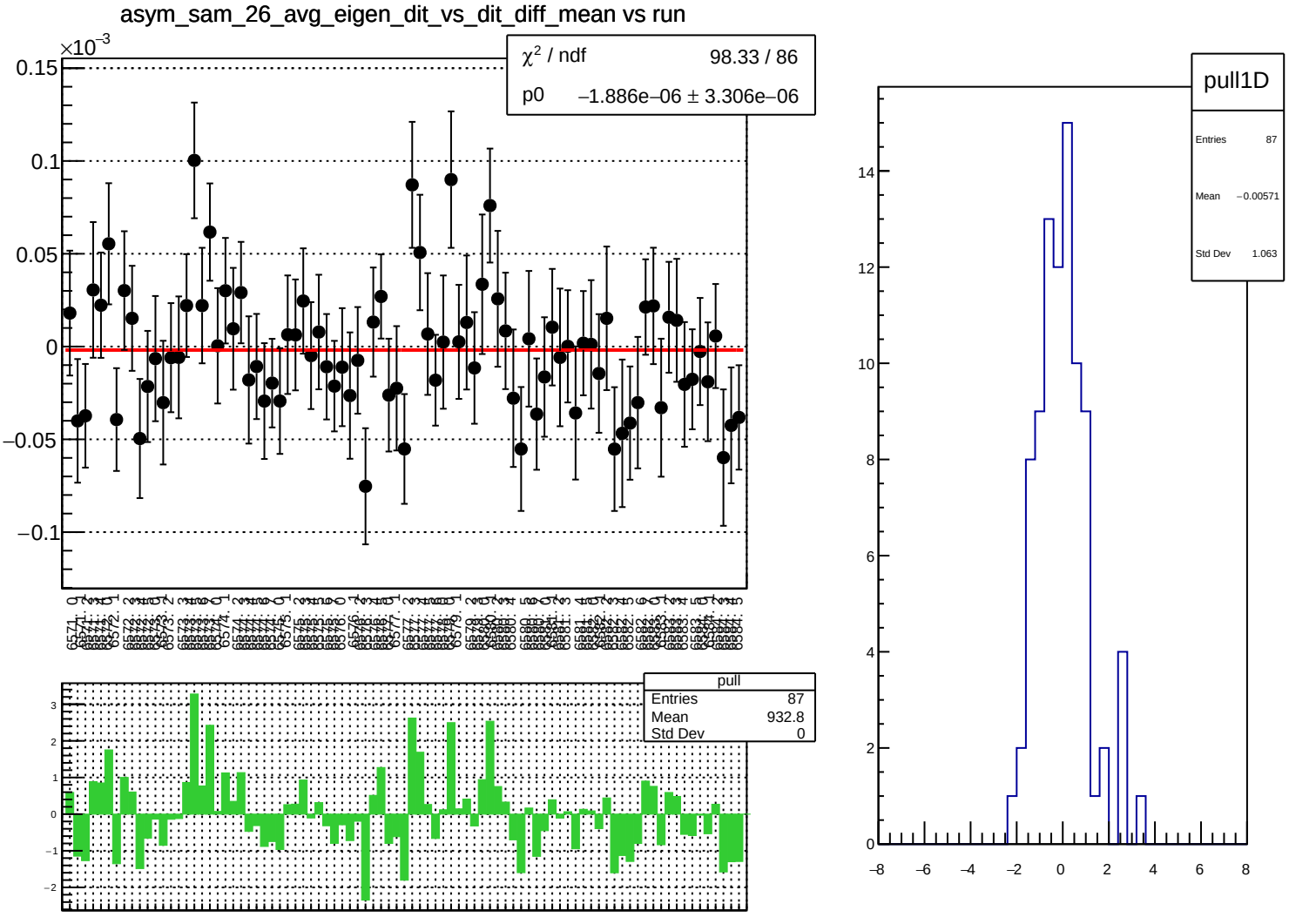

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.33 / 86
p0 0.01768 ± 0.07081
pull
Entries 87
Mean 38.6
Std Dev 72.15

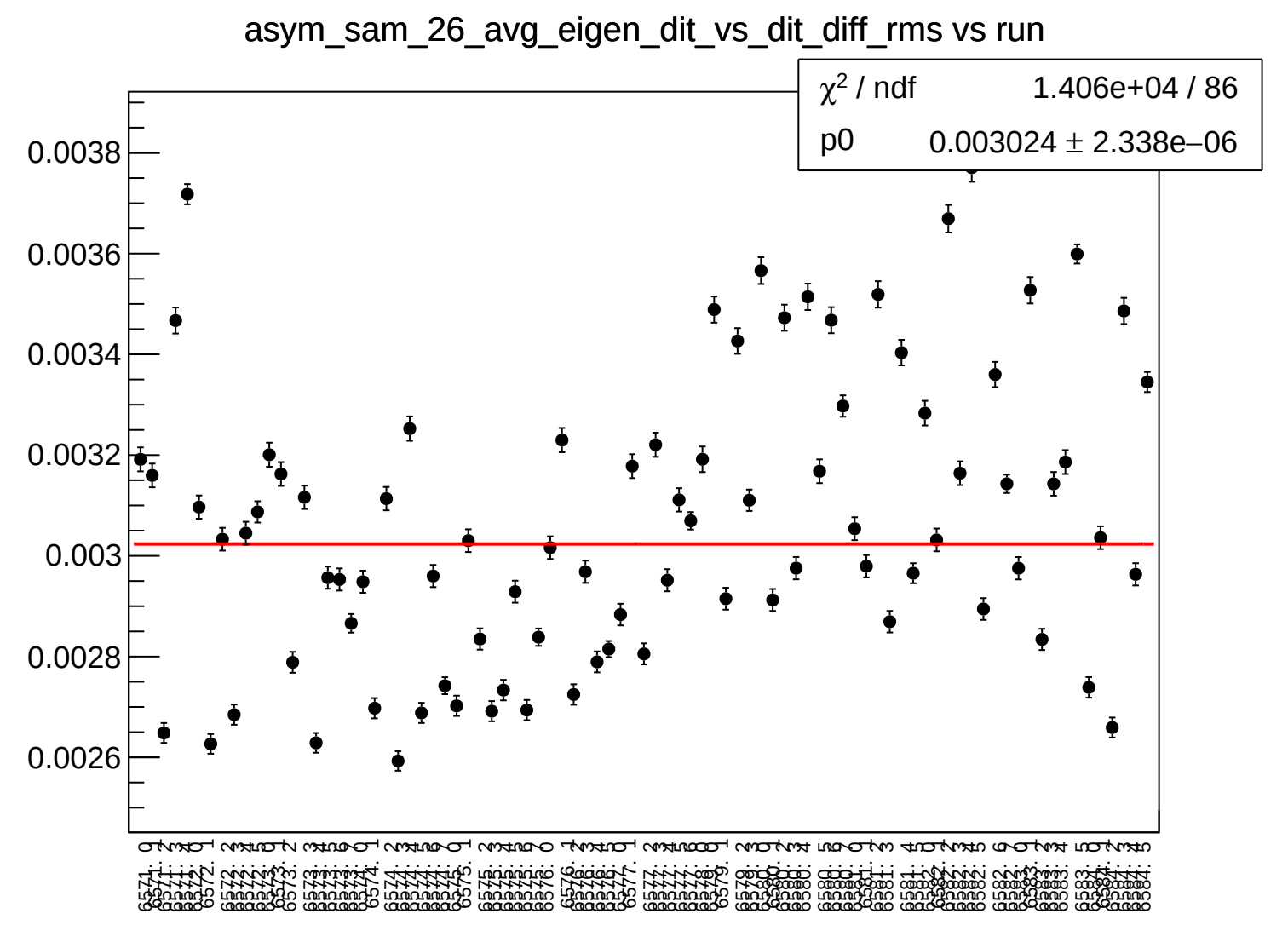

pull1D
Entries 87
Mean −0.01727
Std Dev 0.9902

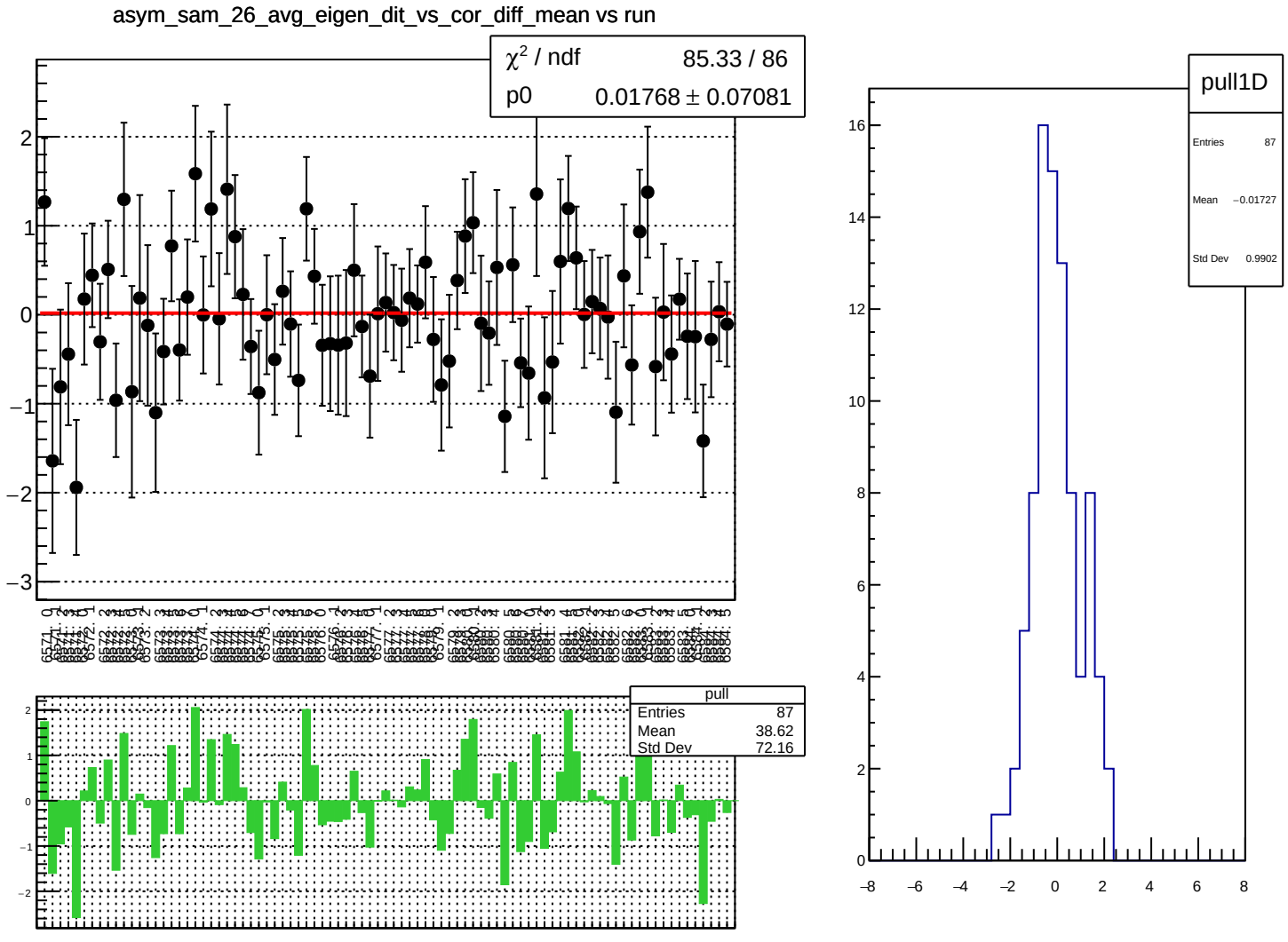

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.753e+04 / 86
p0 64.11 ± 0.05007
110
100
90
80
70
60
50

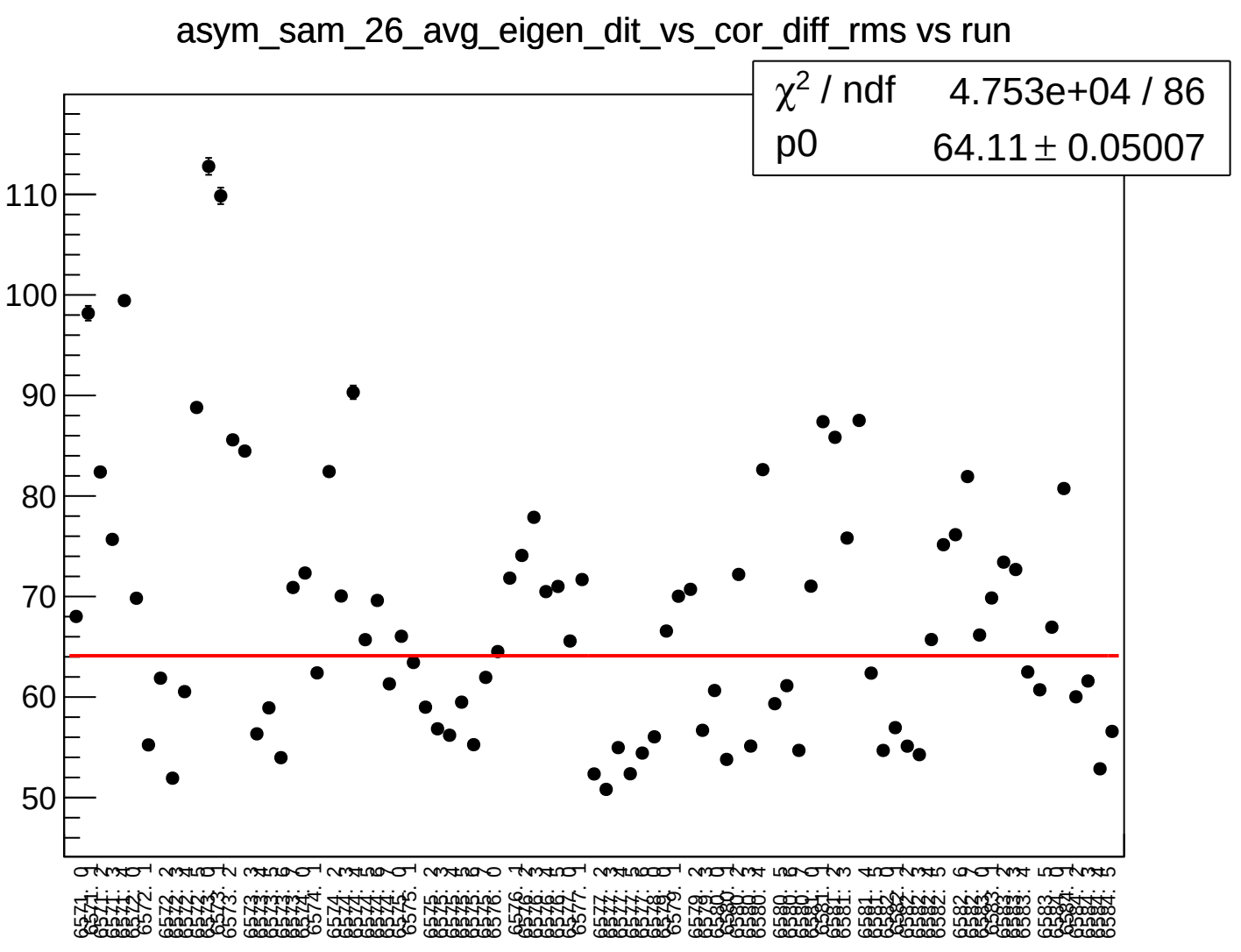

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.33 / 86
p0 0.01768 ± 0.07081
pull
Entries 87
Mean 38.6
Std Dev 72.15
pull1D
Entries 87
Mean −0.01727
Std Dev 0.9902

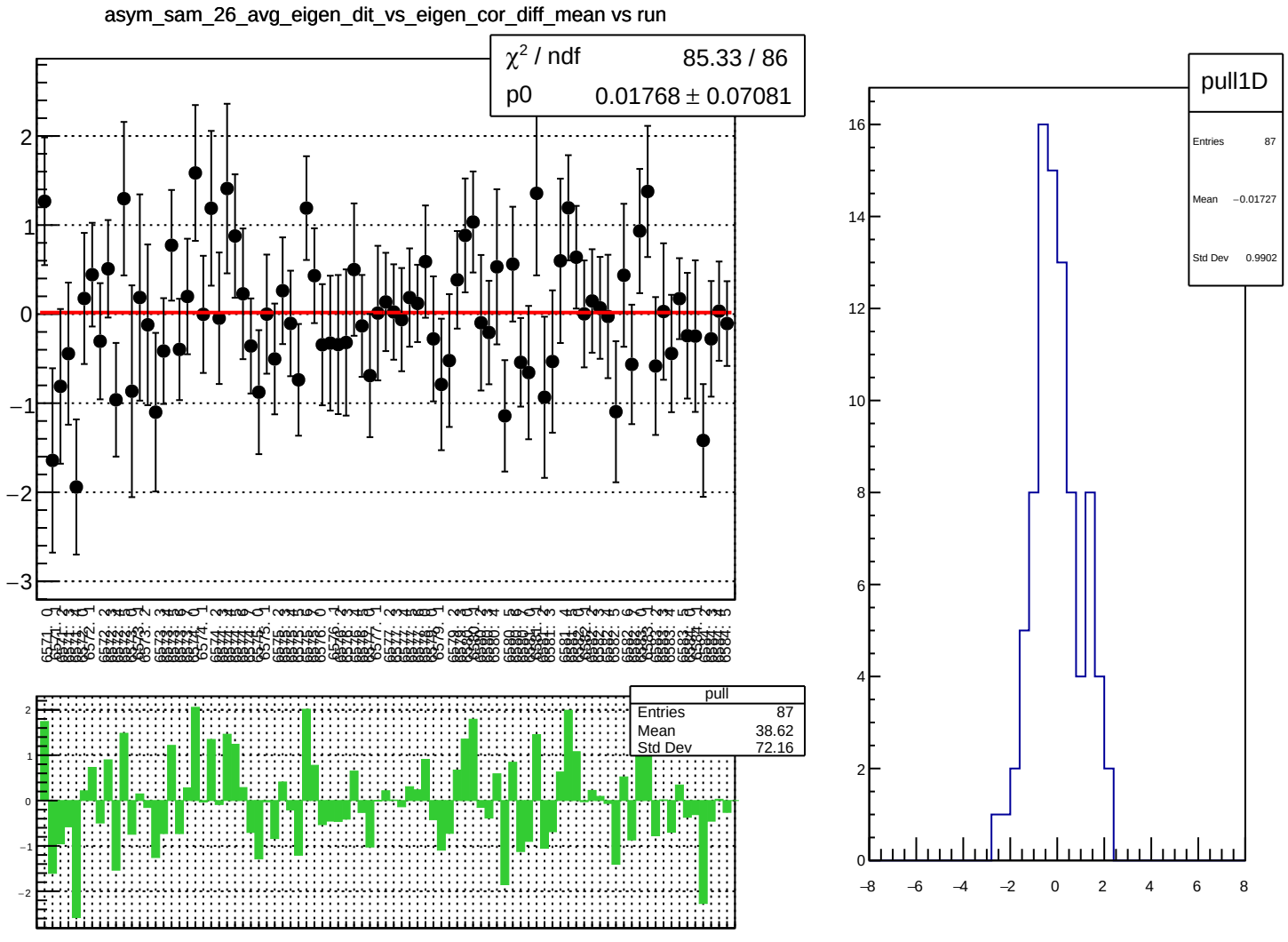

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.753e+04 / 86
p0 64.11 ± 0.05007
110
100
90
80
70
60
50

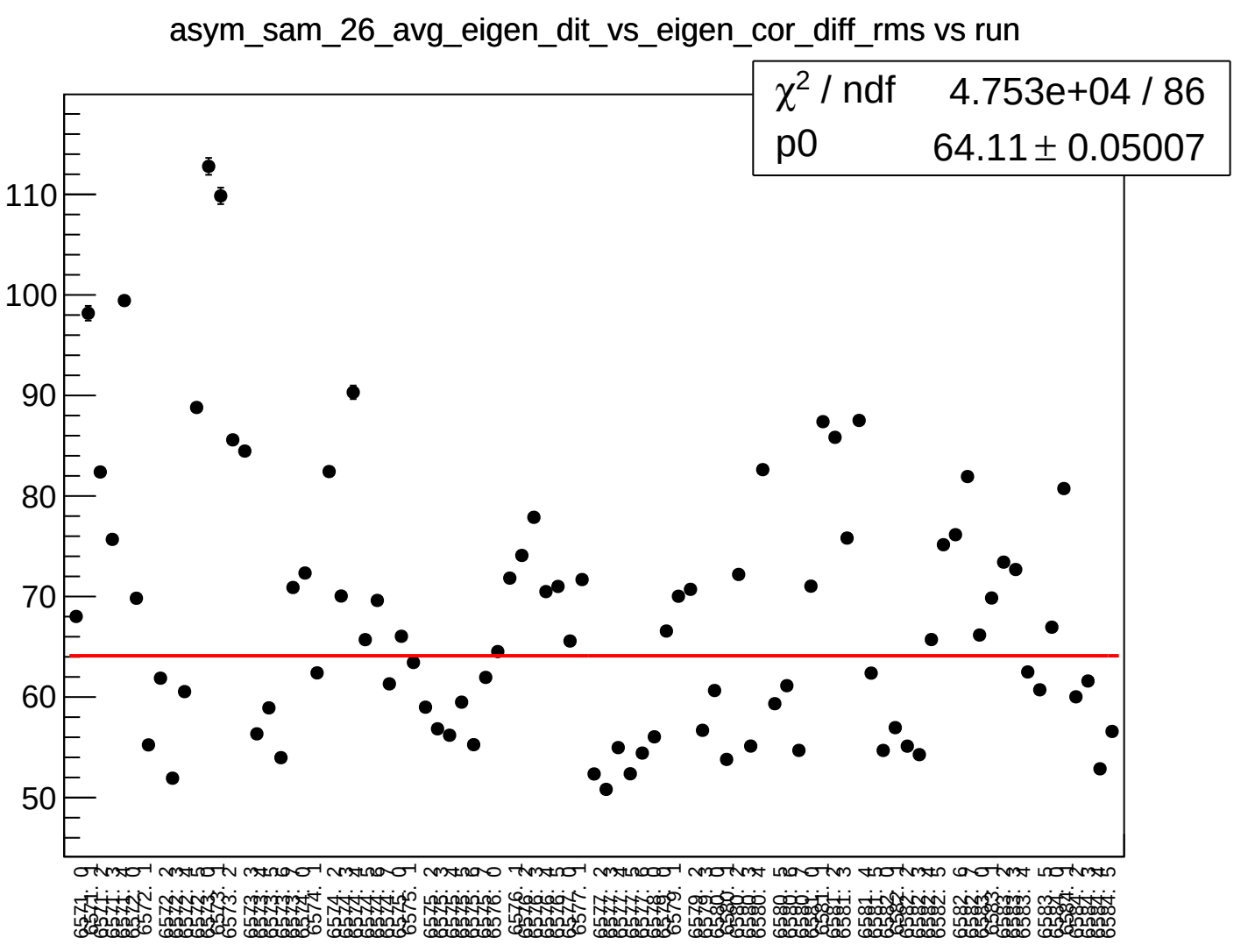

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.33 / 86
p0 −1.886e−06 ± 3.306e−06
pull
Entries 87
Mean 932.8
Std Dev 0
pull1D
Entries 87
Mean −0.00571
Std Dev 1.063

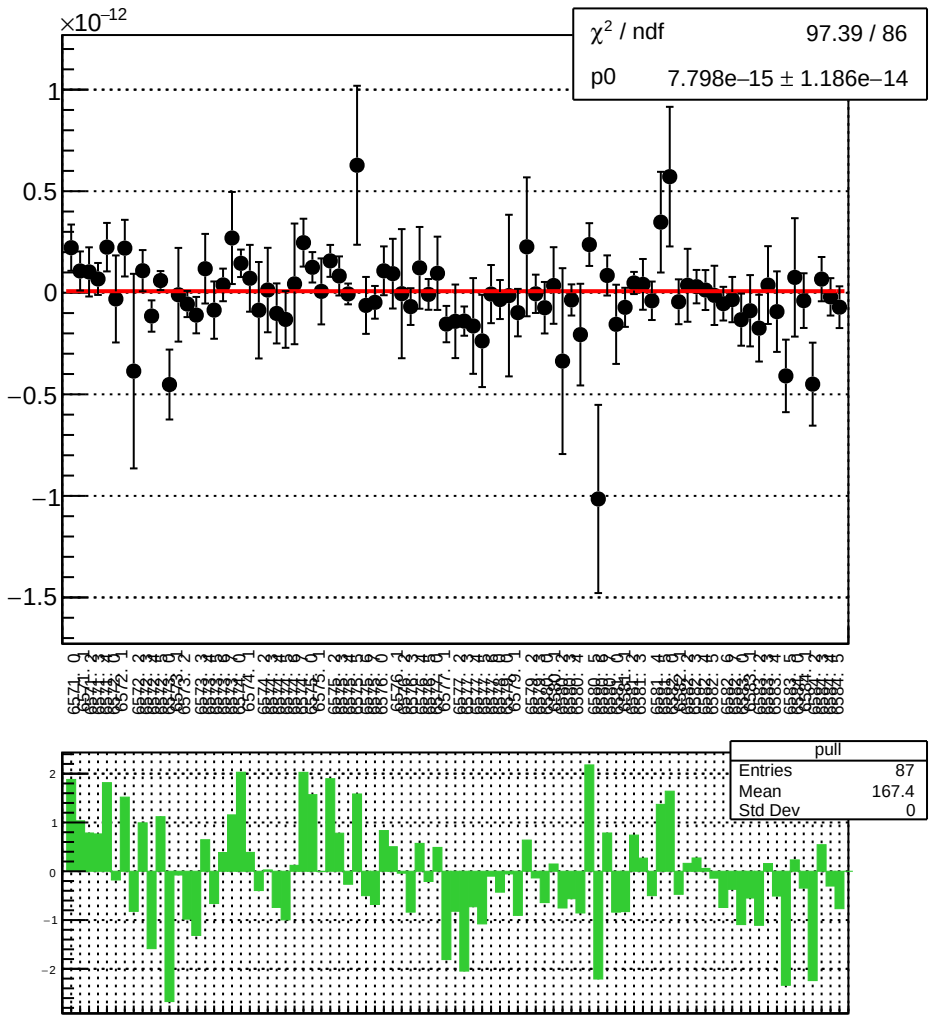

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.406e+04 / 86
p0 0.003024 ± 2.338e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

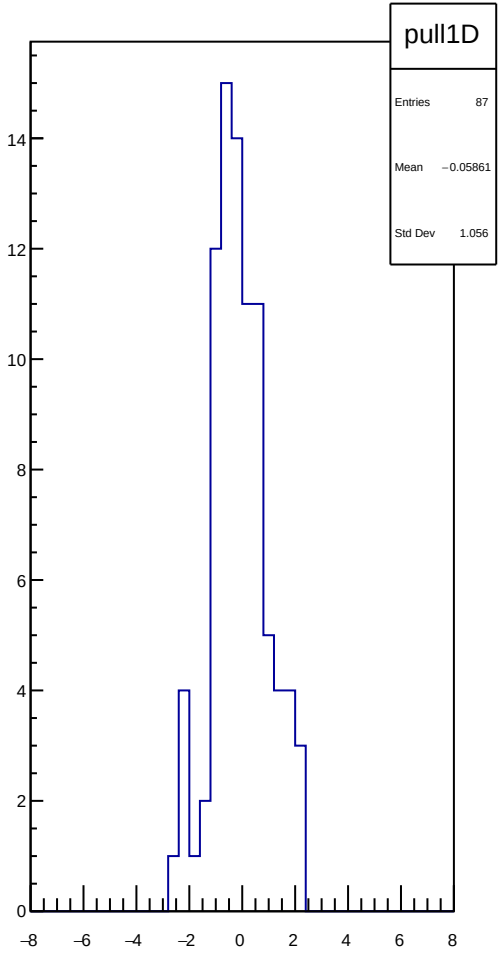

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.33 / 86
p0 0.01768 ± 0.07081
pull
Entries 87
Mean 38.62
Std Dev 72.16
pull1D
Entries 87
Mean −0.01727
Std Dev 0.9902

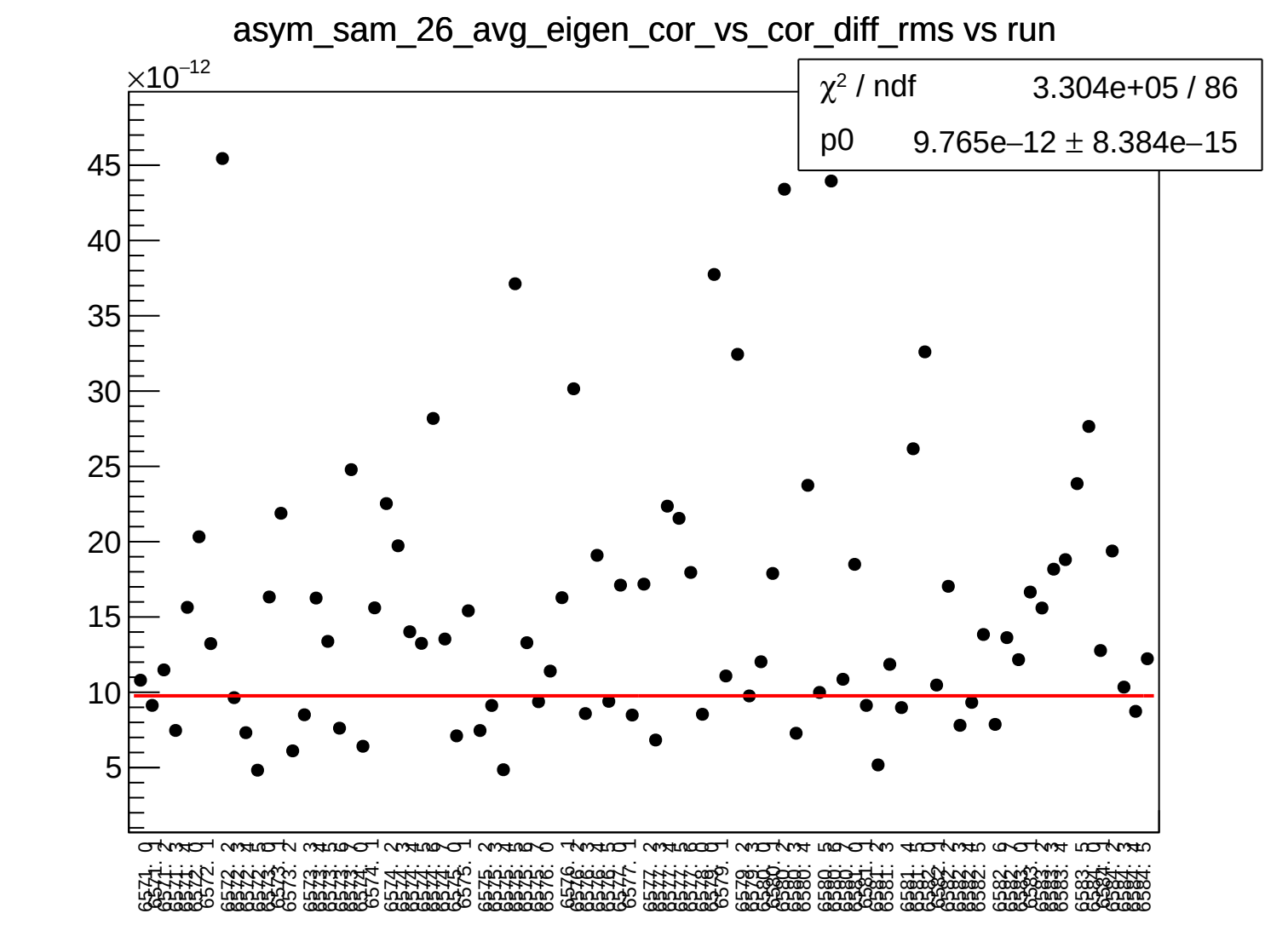

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.753e+04 / 86
p0 64.11 ± 0.05007
110
100
90
80
70
60
50

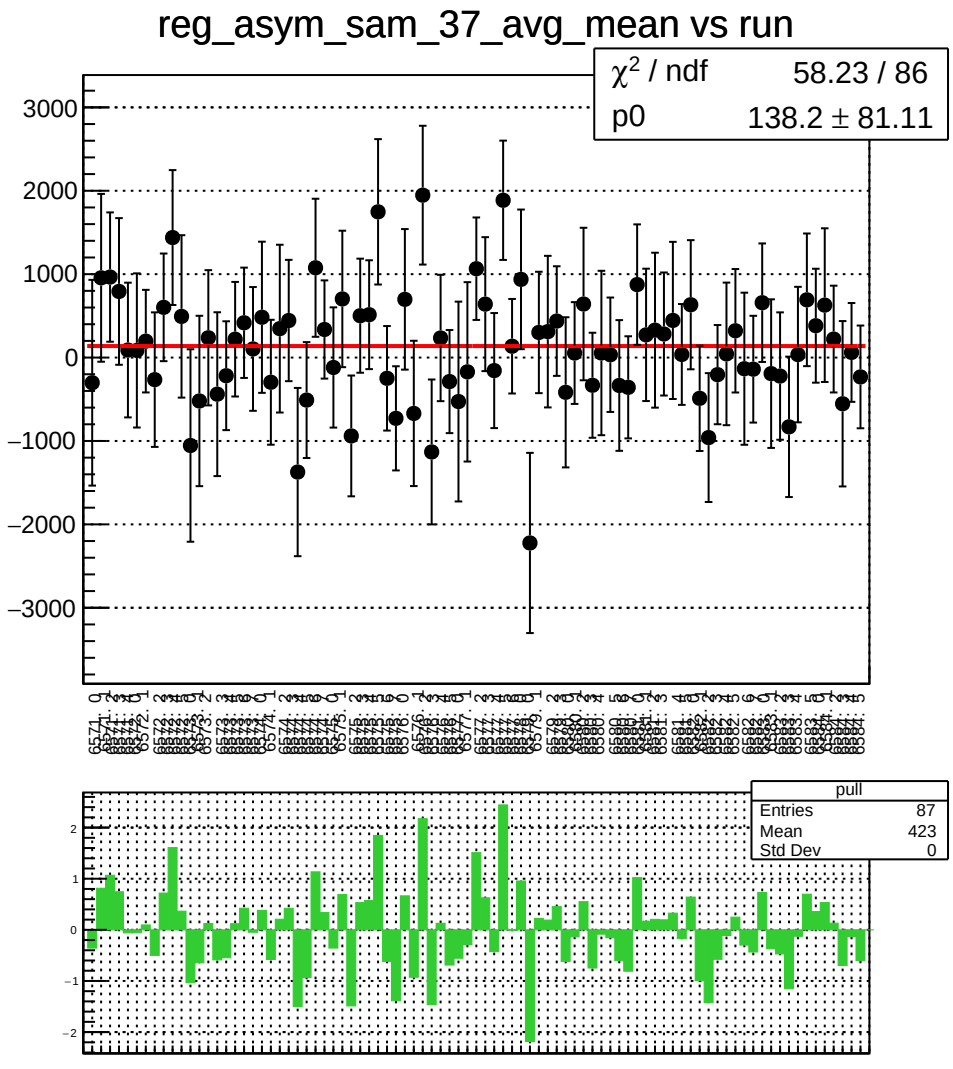

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.33 / 86
p0 0.01768 ± 0.07081
pull
Entries 87
Mean 38.62
Std Dev 72.16
pull1D
Entries 87
Mean −0.01727
Std Dev 0.9902

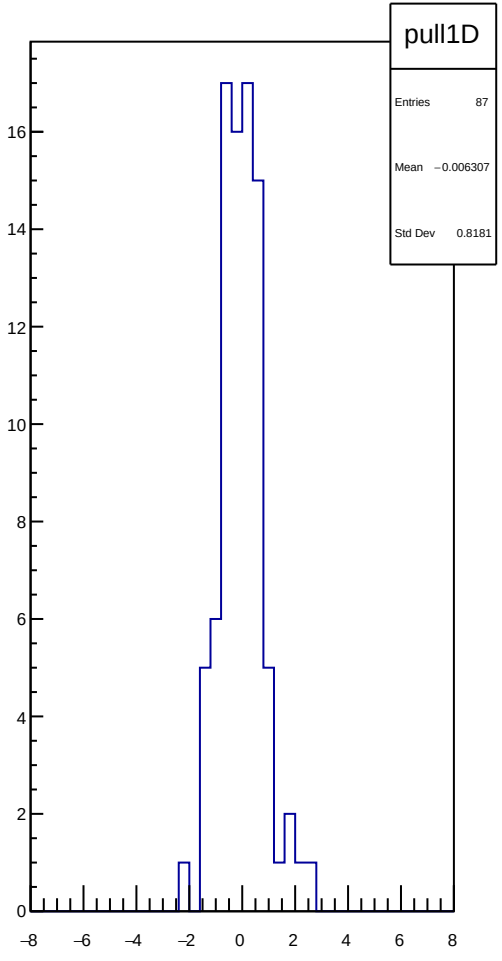

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.753e+04 / 86
p0 64.11 ± 0.05007
110
100
90
80
70
60
50

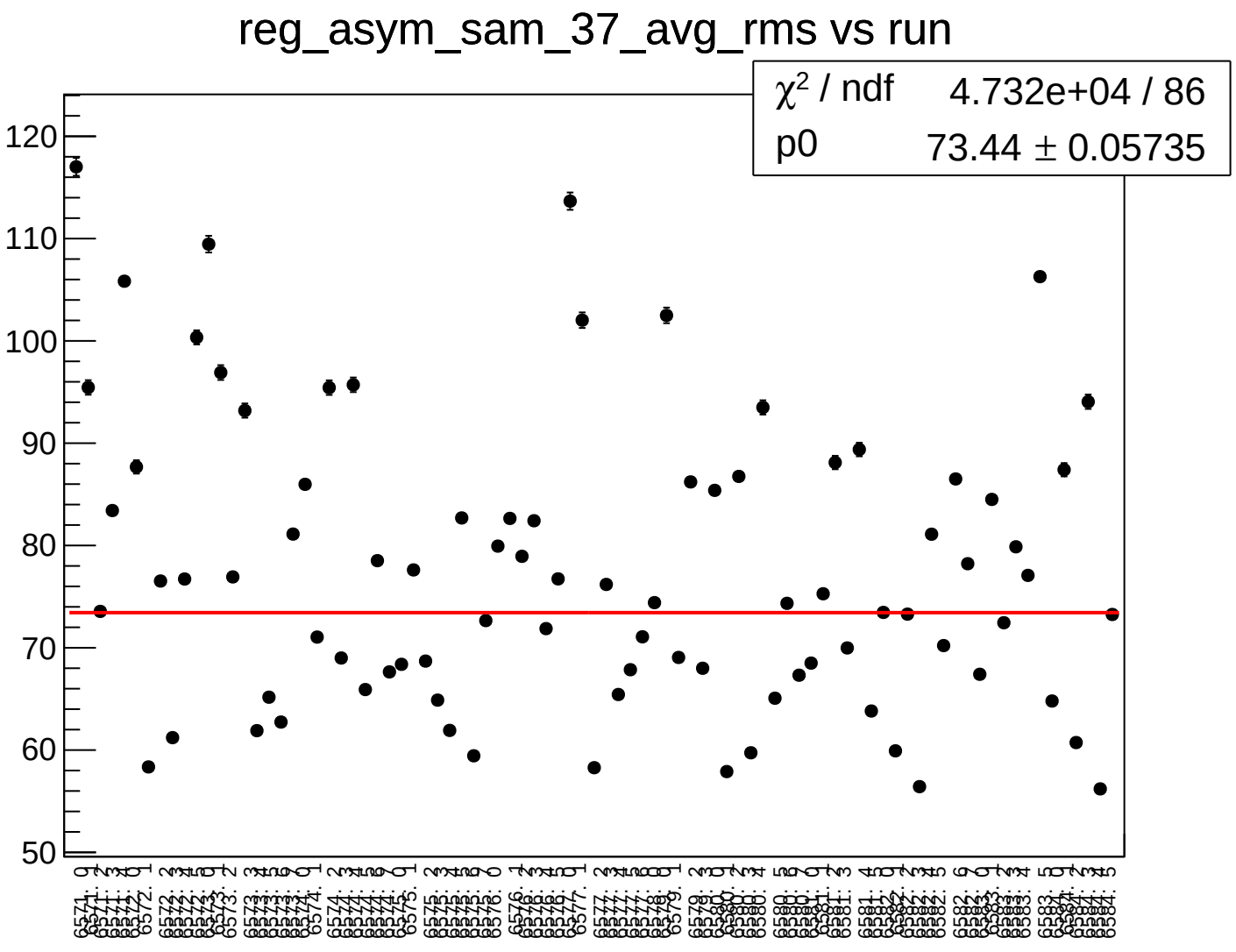

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.39 / 86
p0 7.798e−15 ± 1.186e−14
pull
Entries 87
Mean 167.4
Std Dev 0

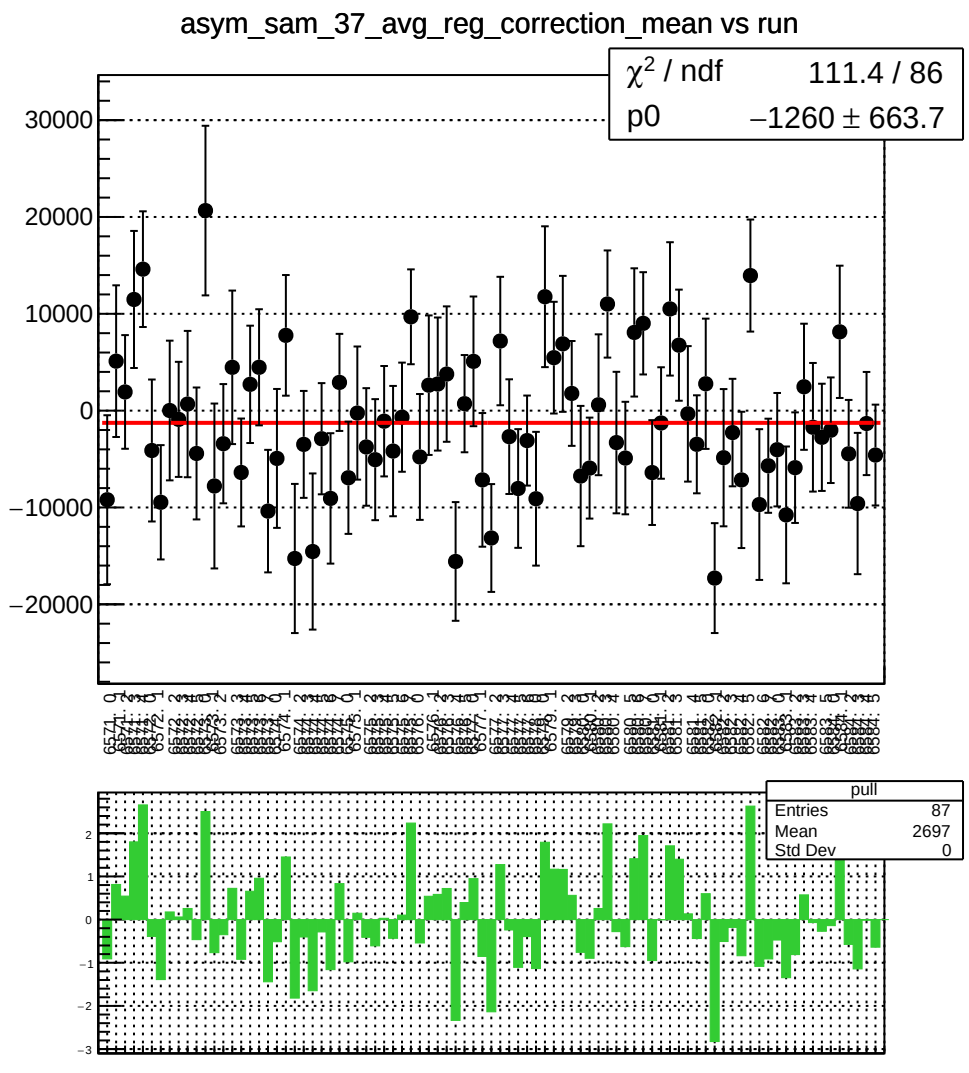

pull1D
Entries 87
Mean −0.05861
Std Dev 1.056

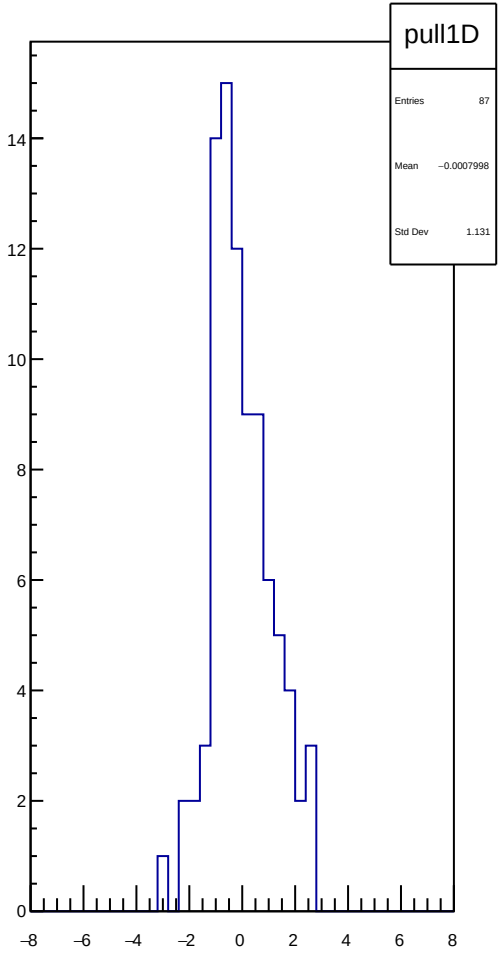

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.304e+05 / 86
p0 9.765e−12 ± 8.384e−15
45
40
35
30
25
20
15
10
5

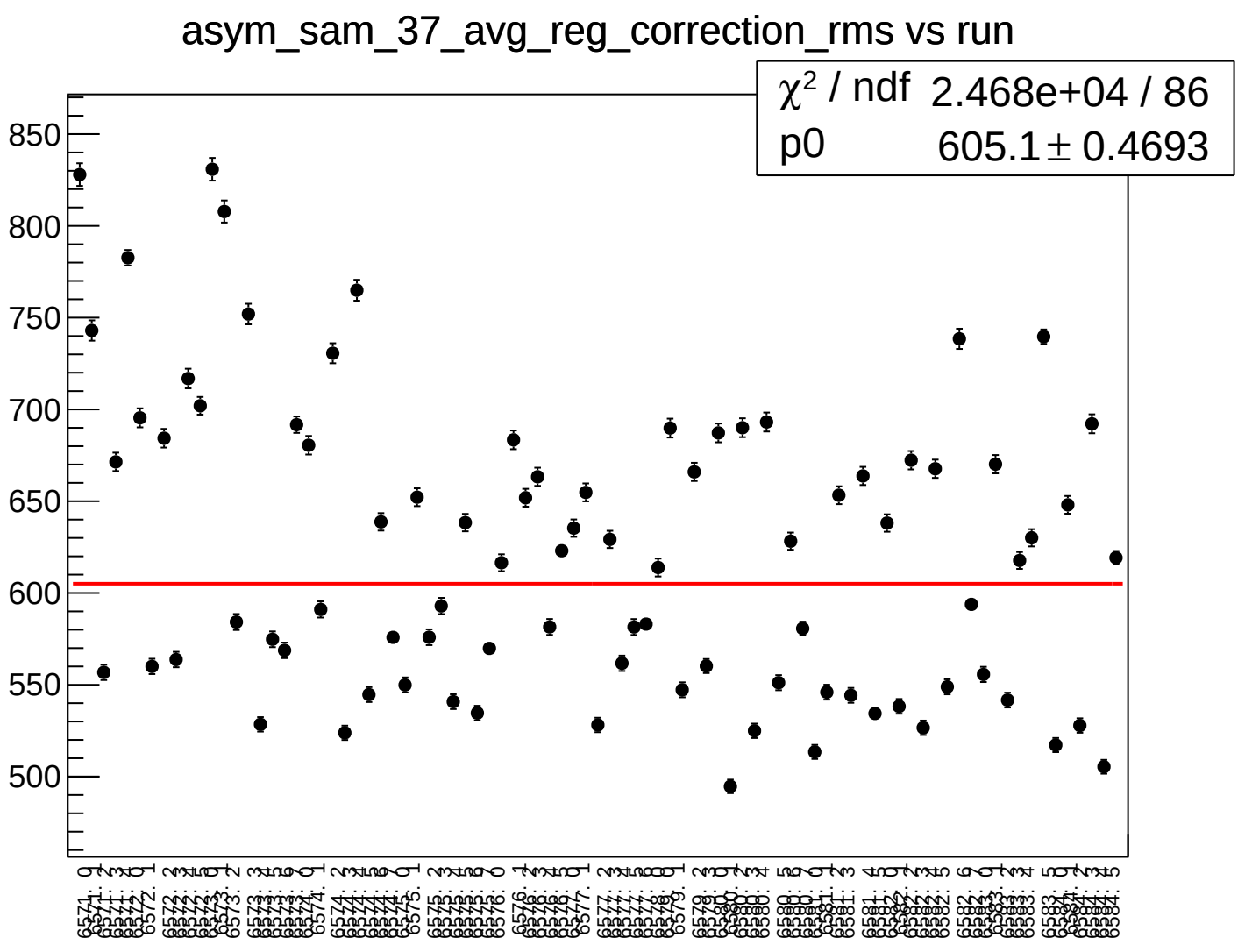

reg_asym_sam_37_avg_mean vs run
χ² / ndf 58.23 / 86
p0 138.2 ± 81.11
pull
Entries 87
Mean 423
Std Dev 0

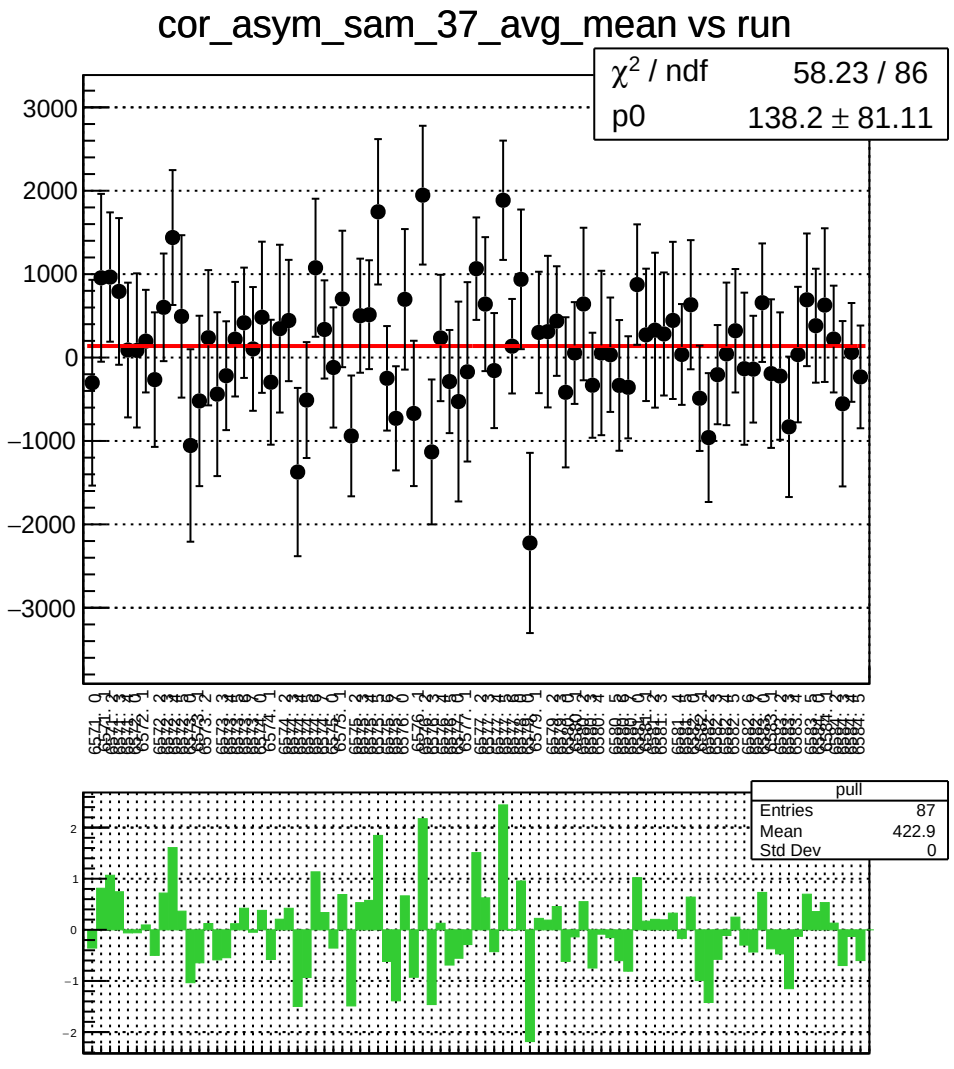

pull1D
Entries 87
Mean −0.006307
Std Dev 0.8181

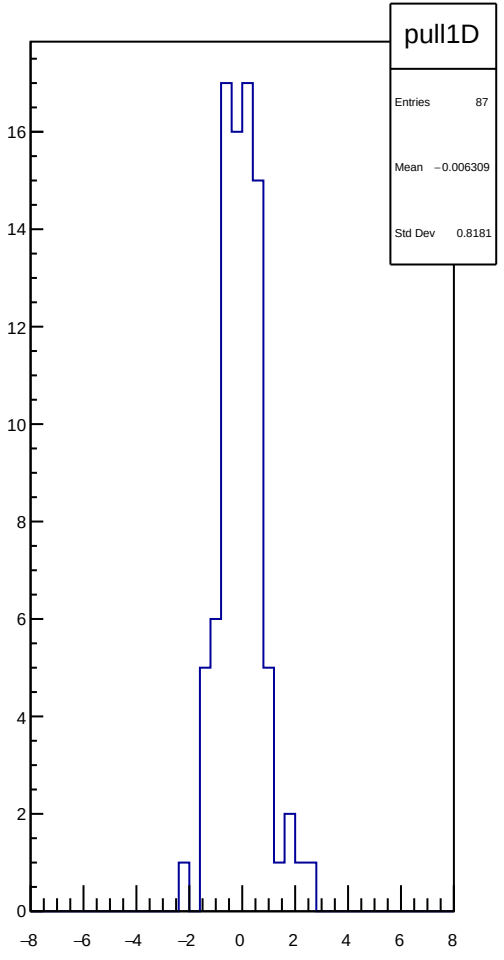

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.732e+04 / 86
p0 73.44 ± 0.05735
120
110
100
90
80
70
60
50

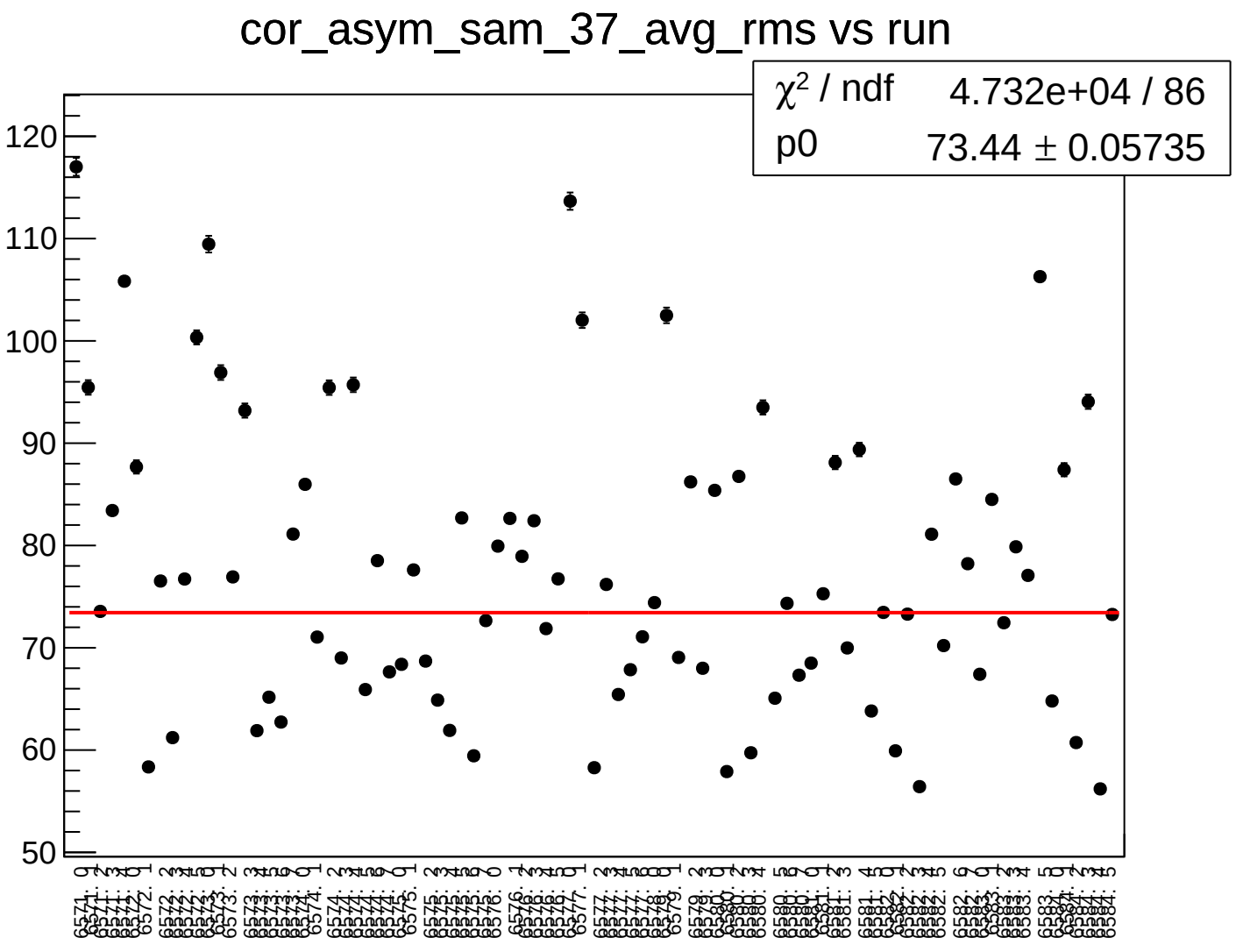

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 111.4 / 86
p0 −1260 ± 663.7
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 2697
Std Dev 0
2
1
0
−1
−2
−3

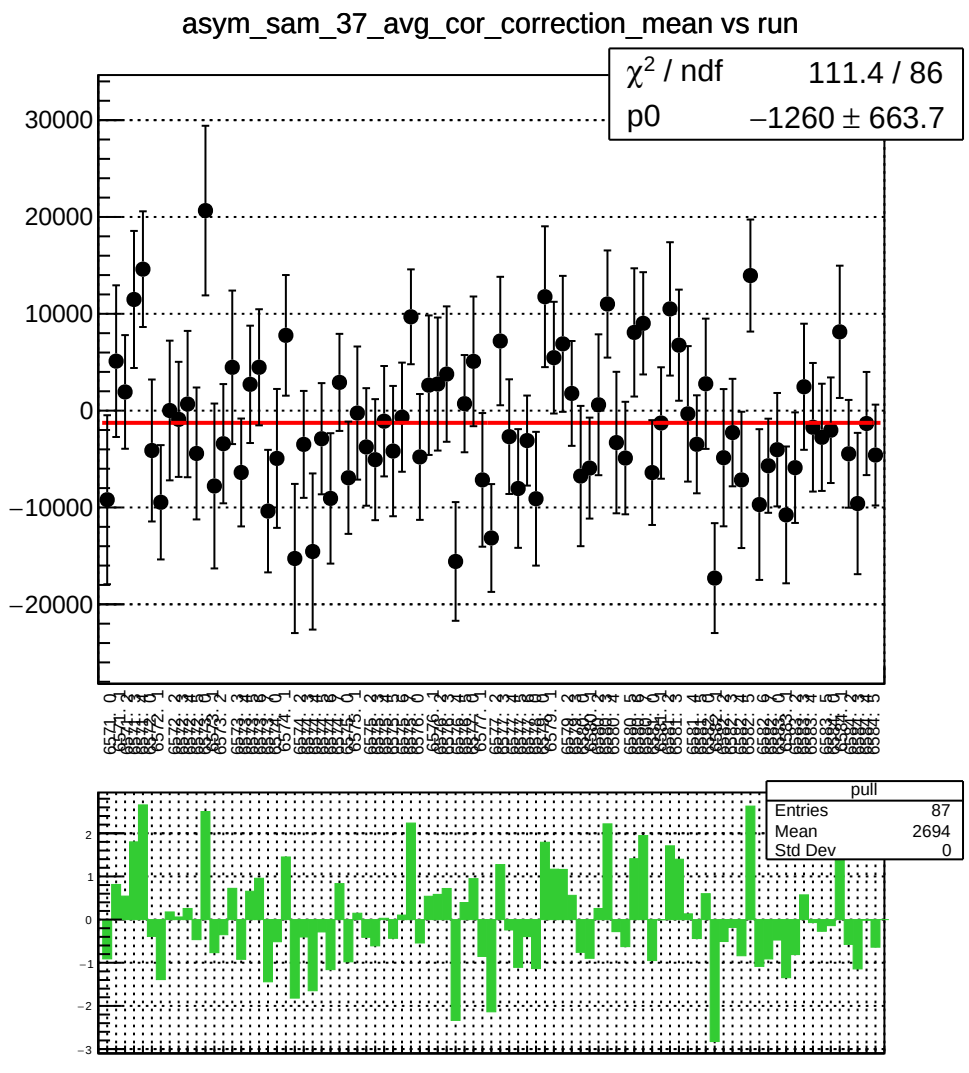

pull1D
Entries 87
Mean −0.0007998
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

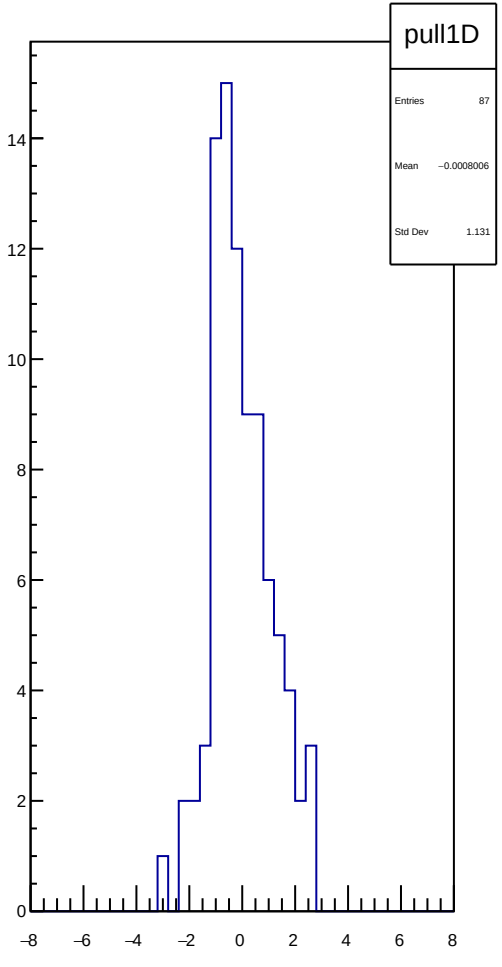

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 2.468e+04 / 86
p0 605.1 ± 0.4693
850
800
750
700
650
600
550
500

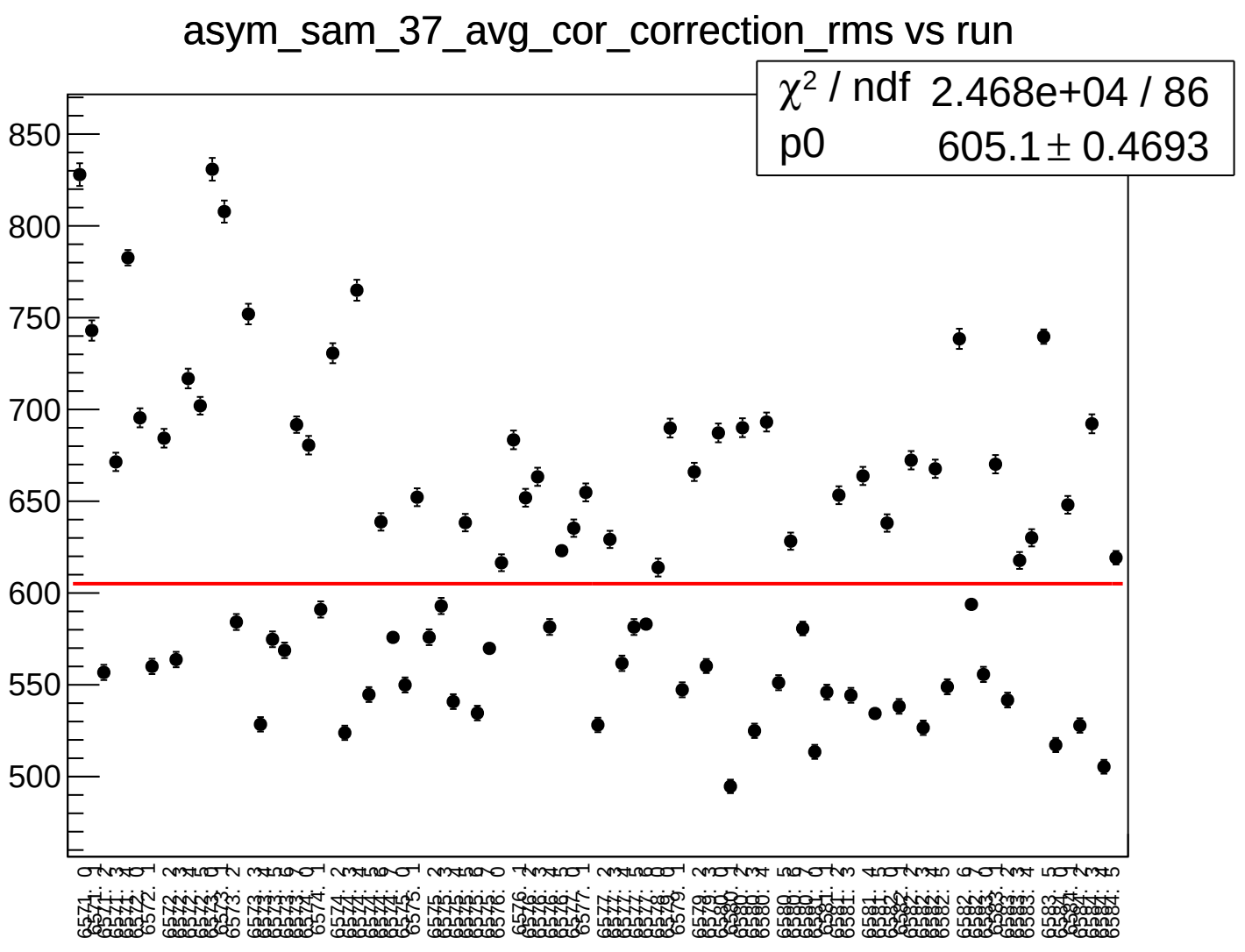

cor_asym_sam_37_avg_mean vs run
χ² / ndf 58.23 / 86
p0 138.2 ± 81.11
pull
Entries 87
Mean 422.9
Std Dev 0

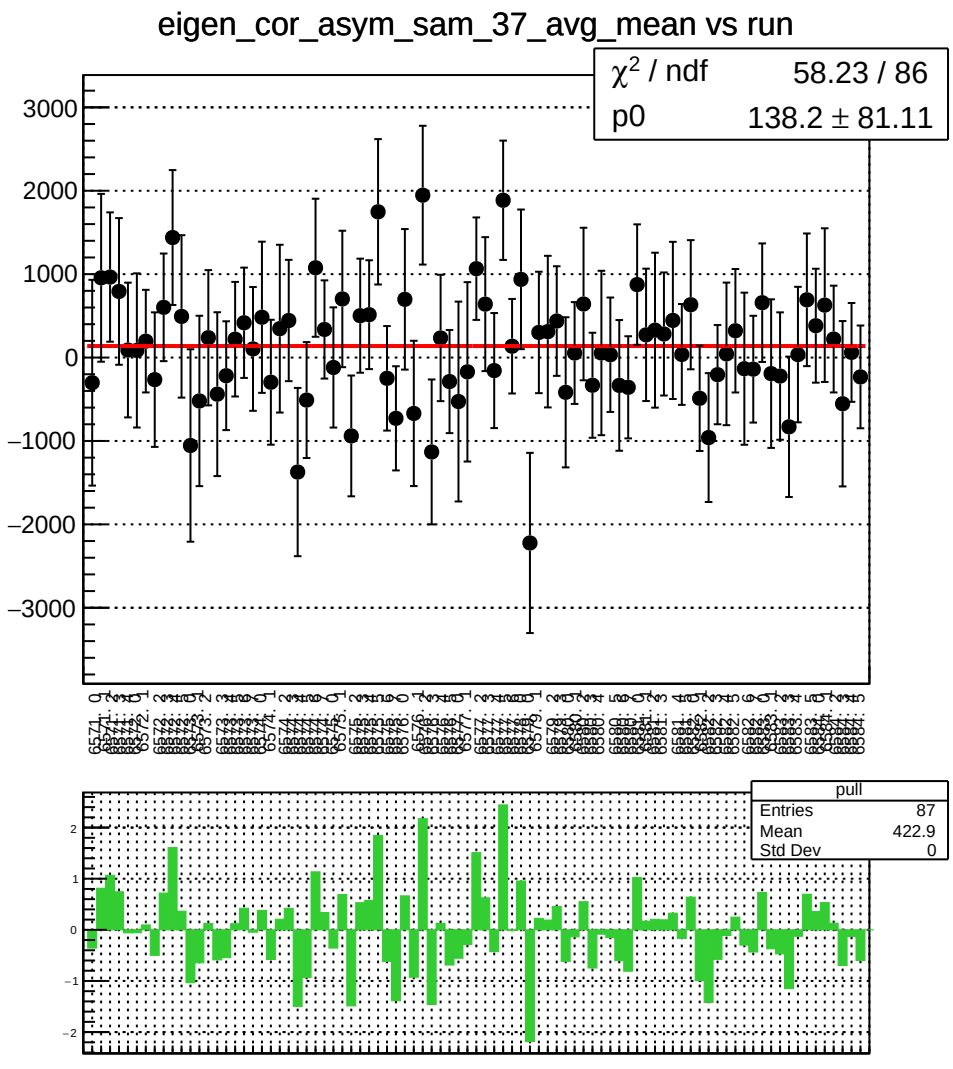

pull1D
Entries 87
Mean −0.006309
Std Dev 0.8181

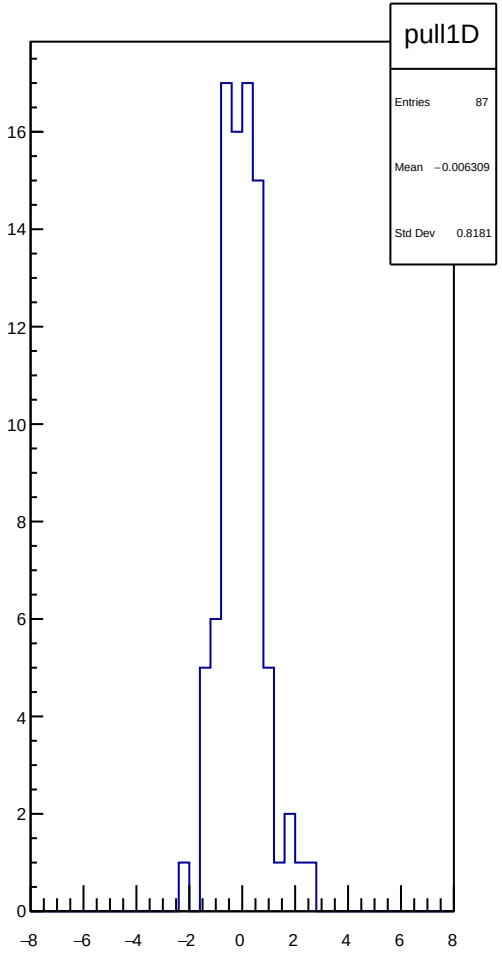

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.732e+04 / 86
p0 73.44 ± 0.05735
120
110
100
90
80
70
60
50

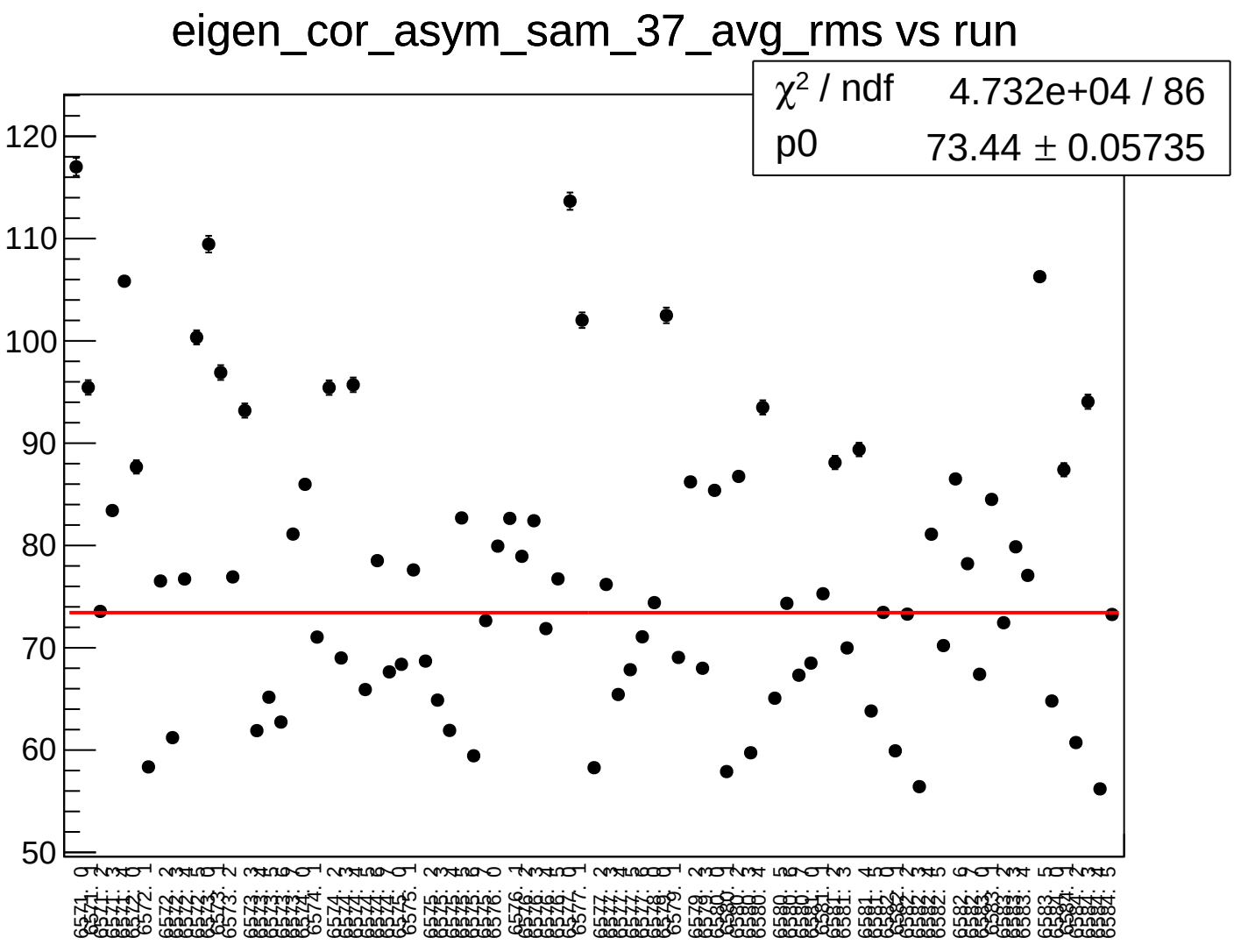

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 111.4 / 86
p0 −1260 ± 663.7
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 2694
Std Dev 0
2
1
0
−1
−2
−3

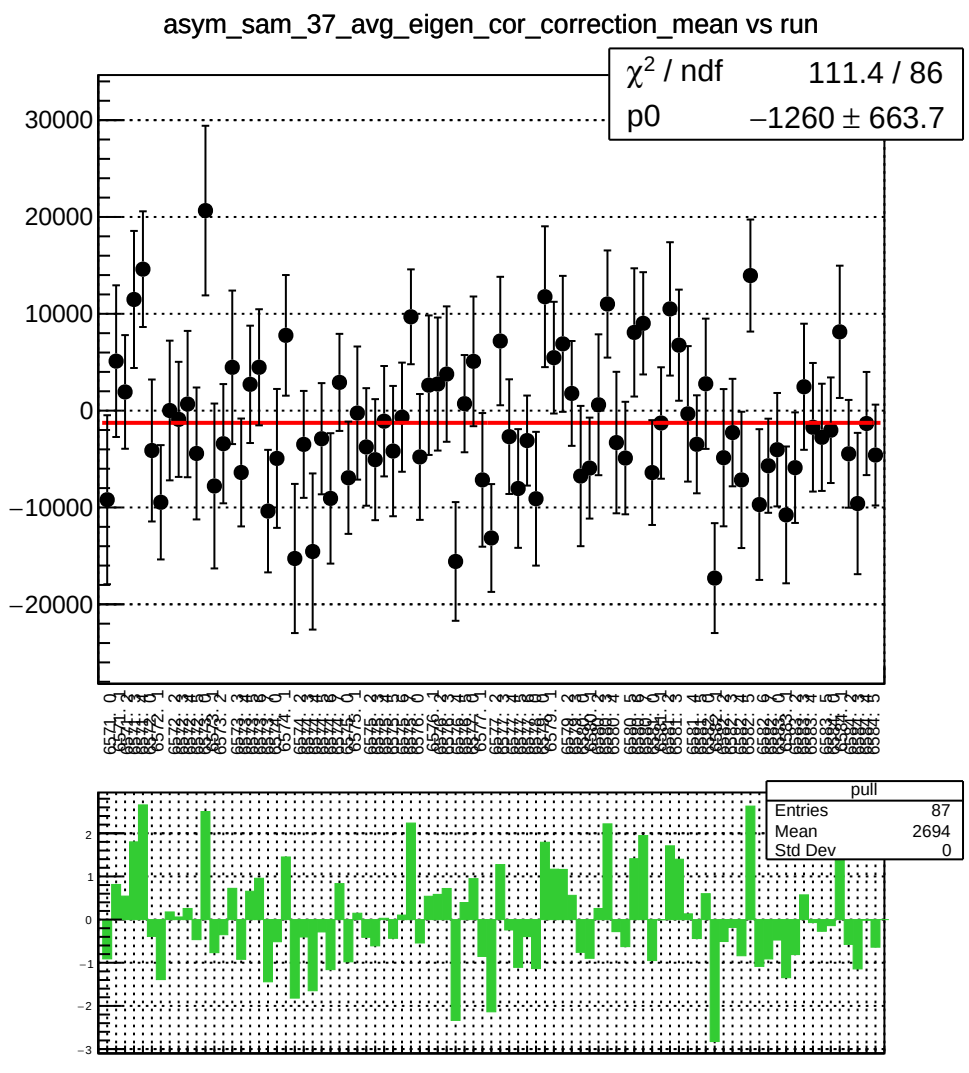

pull1D
Entries 87
Mean −0.0008006
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

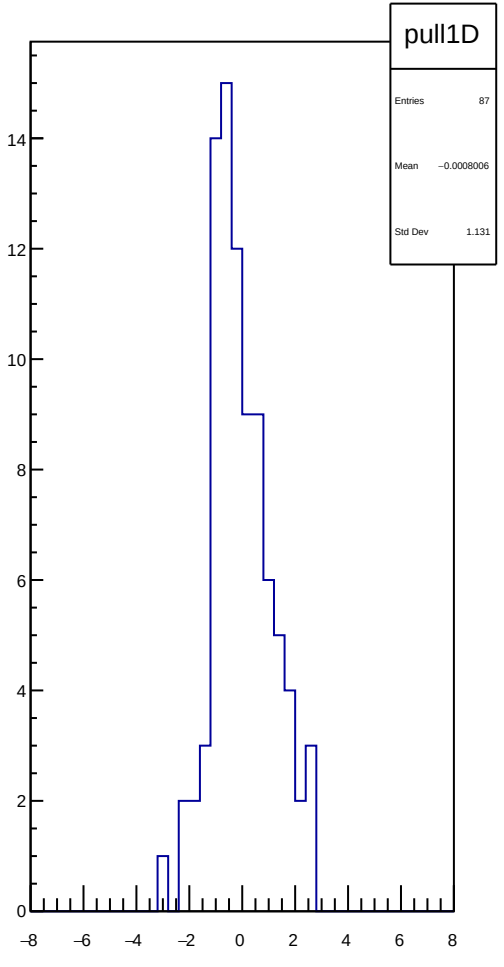

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2.468e+04 / 86
p0 605.1 ± 0.4693
850
800
750
700
650
600
550
500

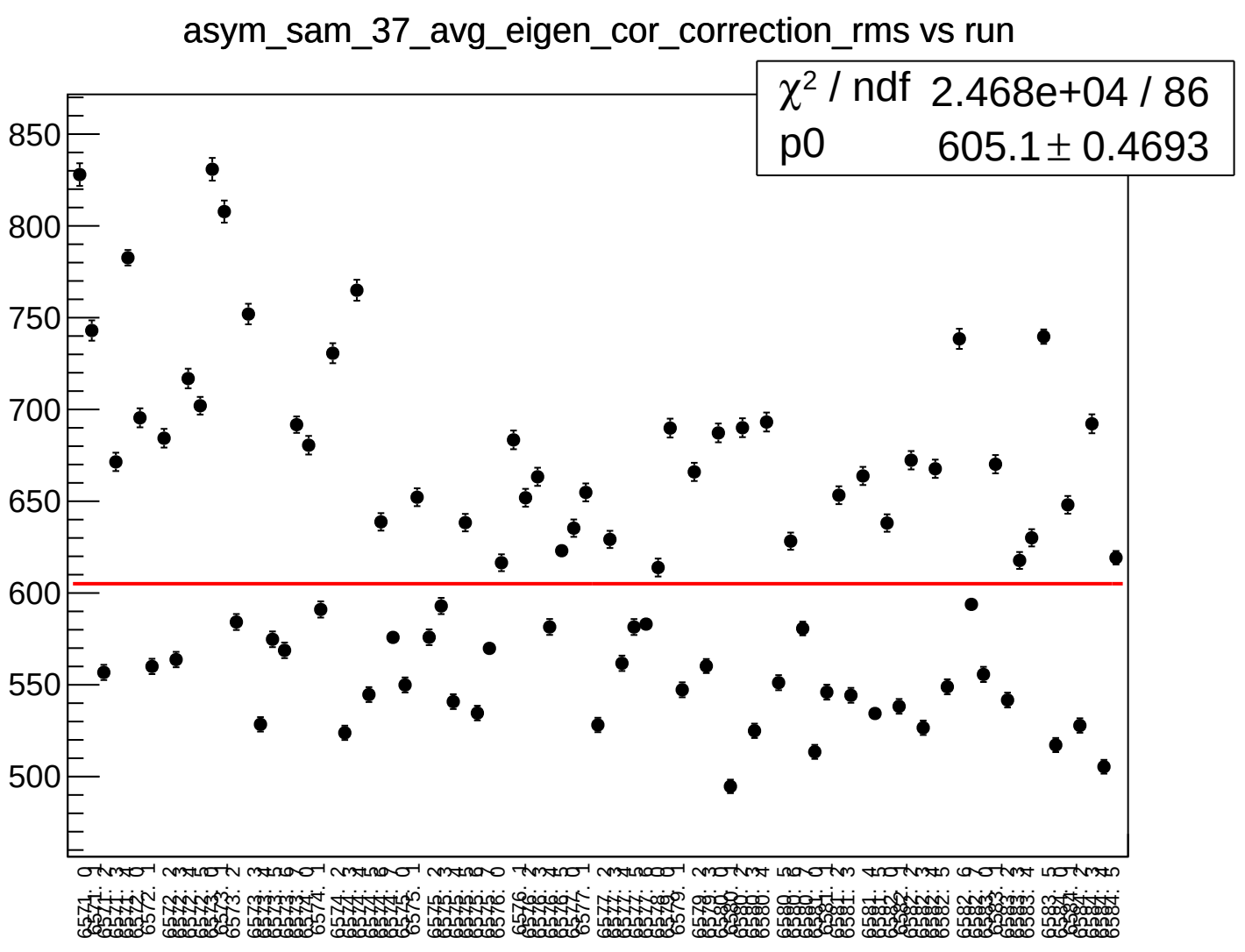

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 58.23 / 86
p0 138.2 ± 81.11
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 422.9
Std Dev 0
2
1
0
−1
−2

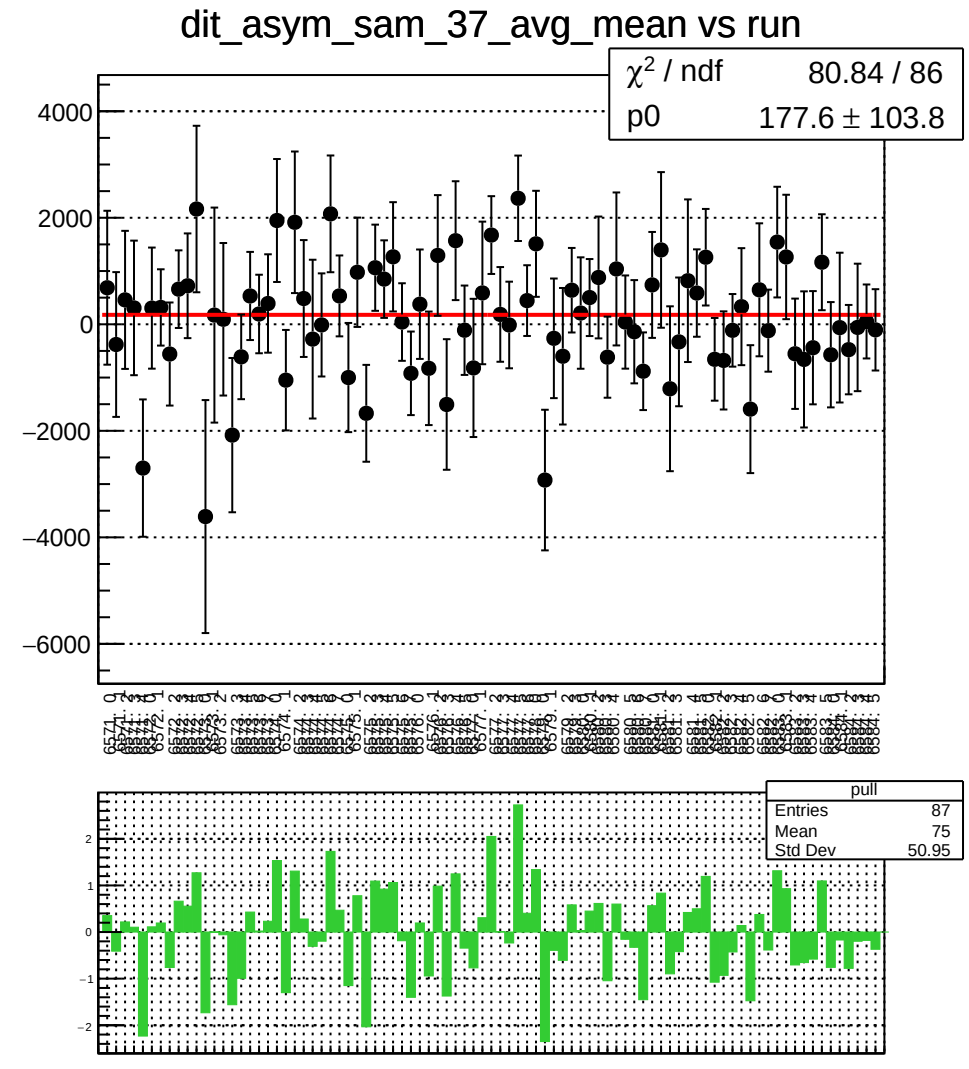

pull1D
Entries 87
Mean −0.006309
Std Dev 0.8181
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

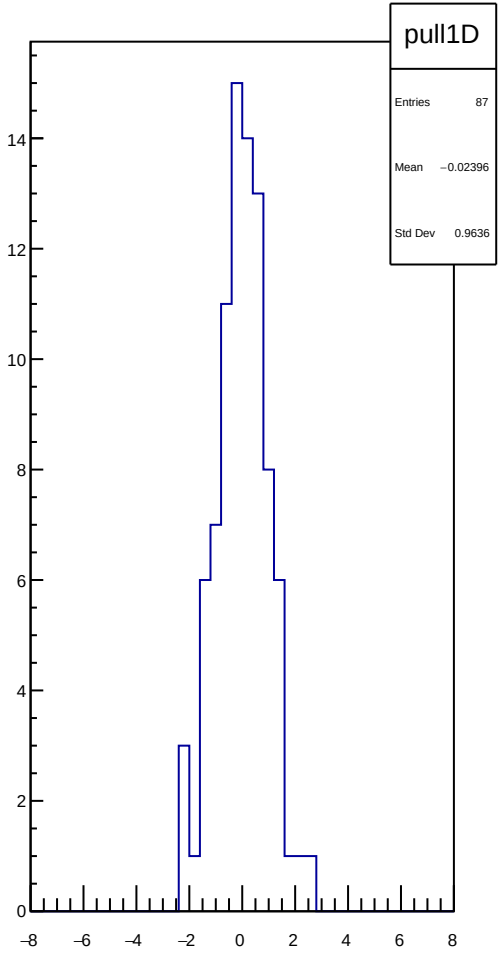

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 4.732e+04 / 86
p0 73.44 ± 0.05735
120
110
100
90
80
70
60
50

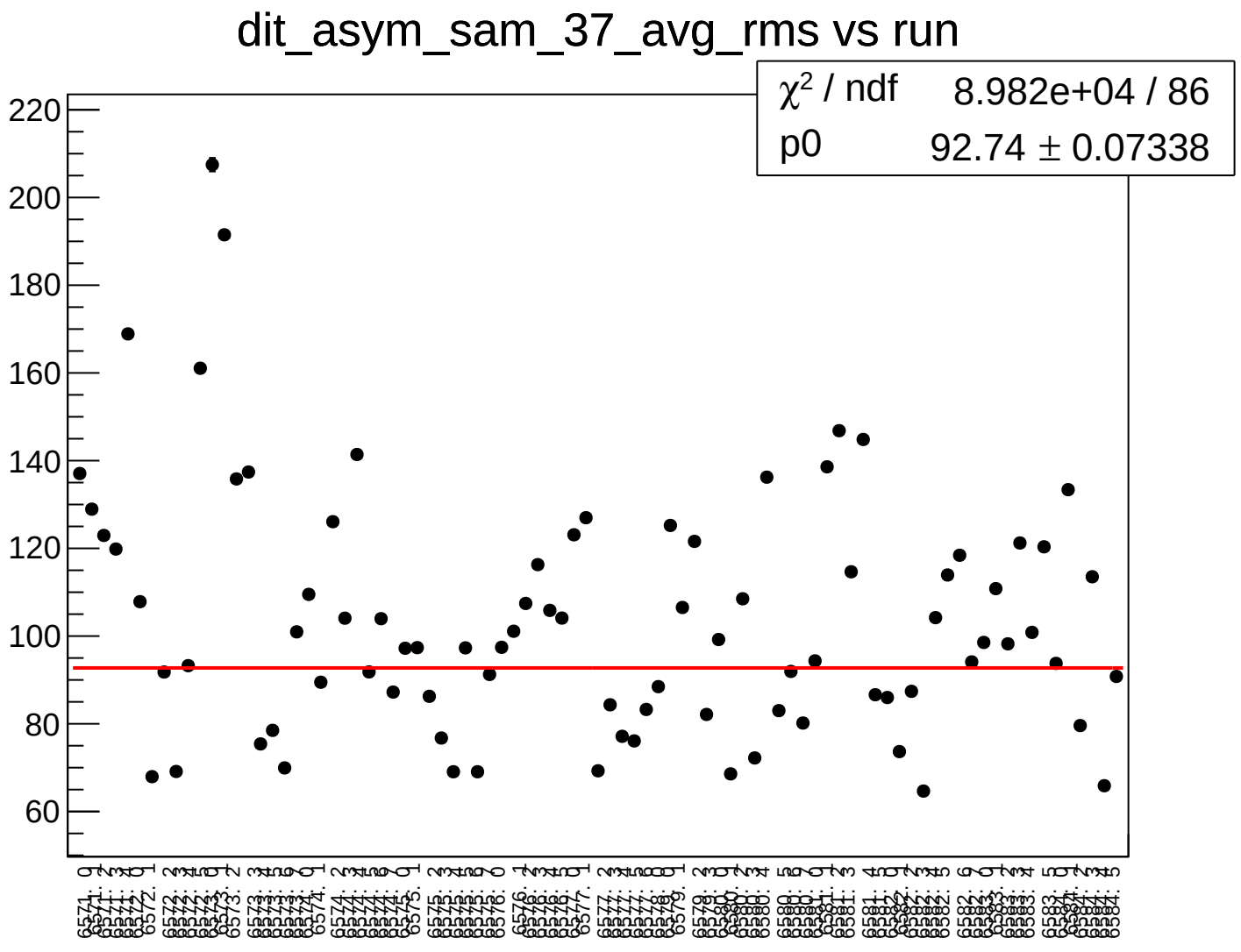

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 111.4 / 86
p0 −1260 ± 663.7
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 2694
Std Dev 0
2
1
0
−1
−2
−3

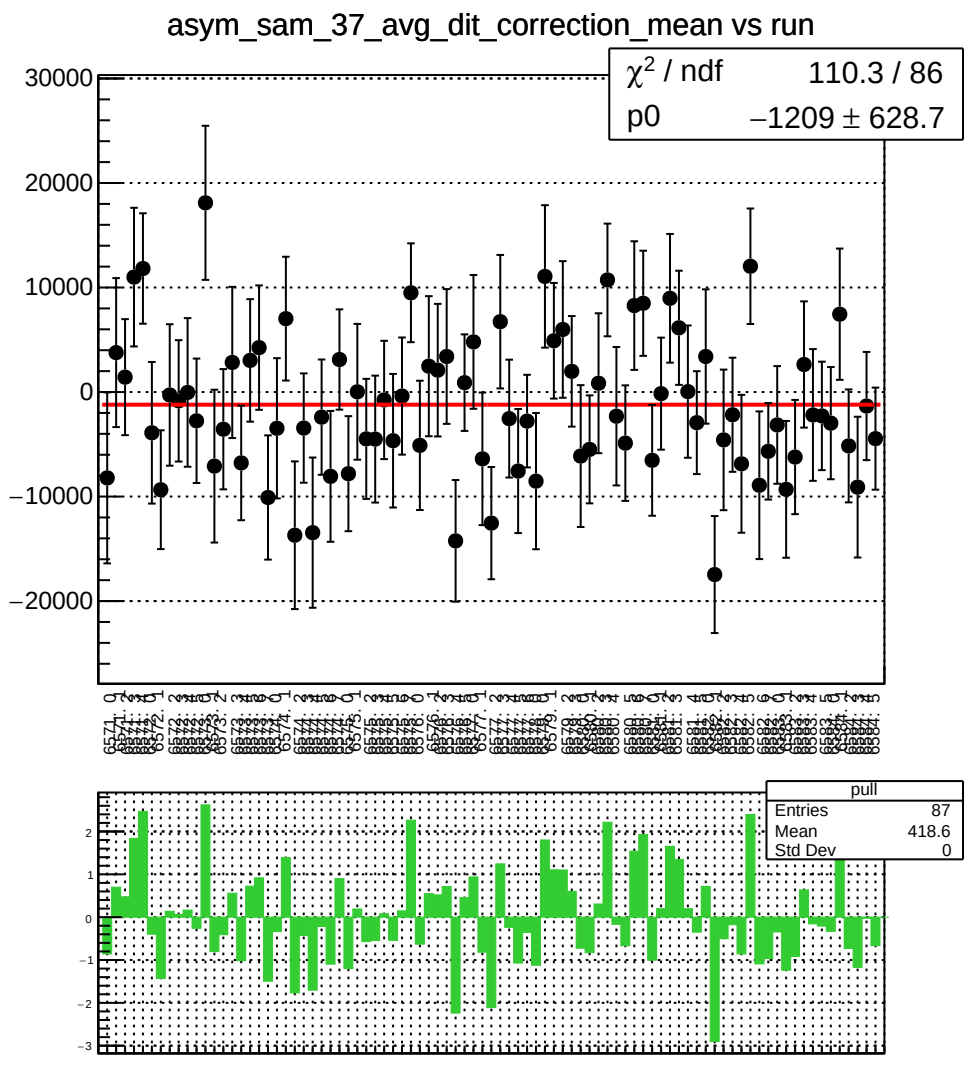

pull1D
Entries 87
Mean −0.0008006
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

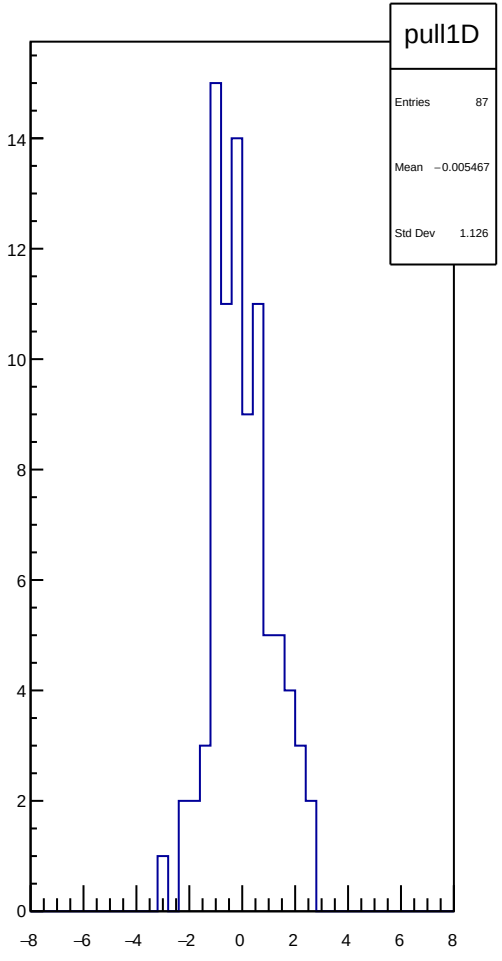

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.468e+04 / 86
p0 605.1 ± 0.4693
850
800
750
700
650
600
550
500

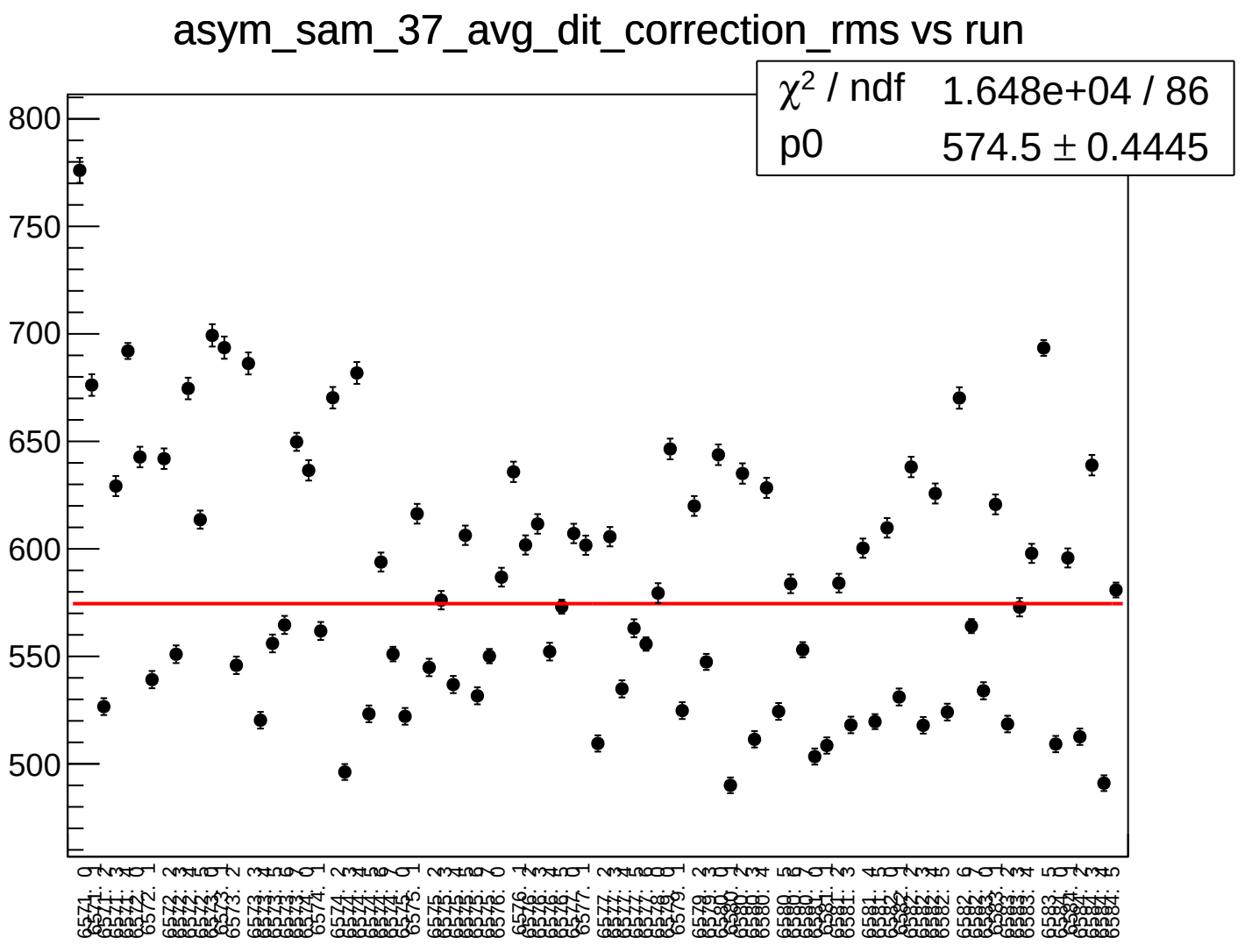

dit_asym_sam_37_avg_mean vs run
χ^2 / ndf 80.84 / 86
p0 177.6 ± 103.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 75
Std Dev 50.95
2
1
0
−1
−2

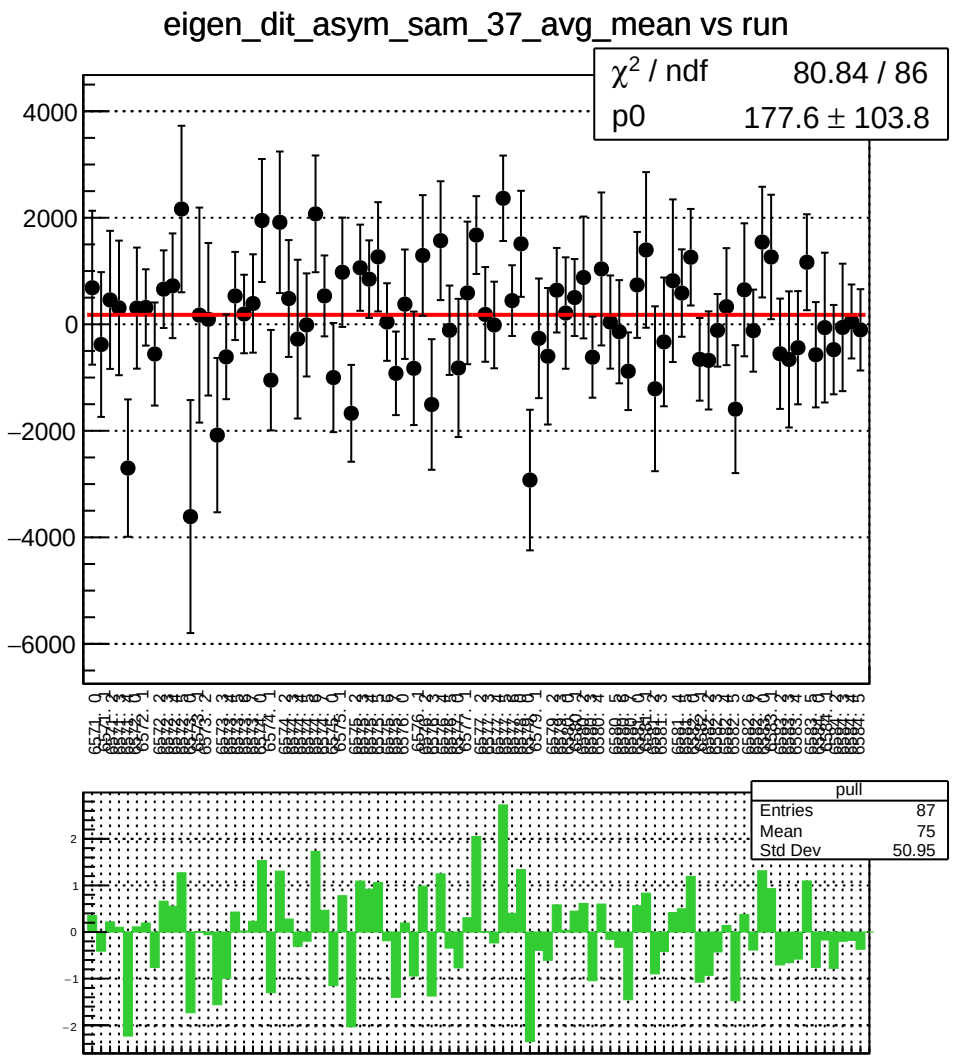

pull1D
Entries 87
Mean −0.02396
Std Dev 0.9636
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

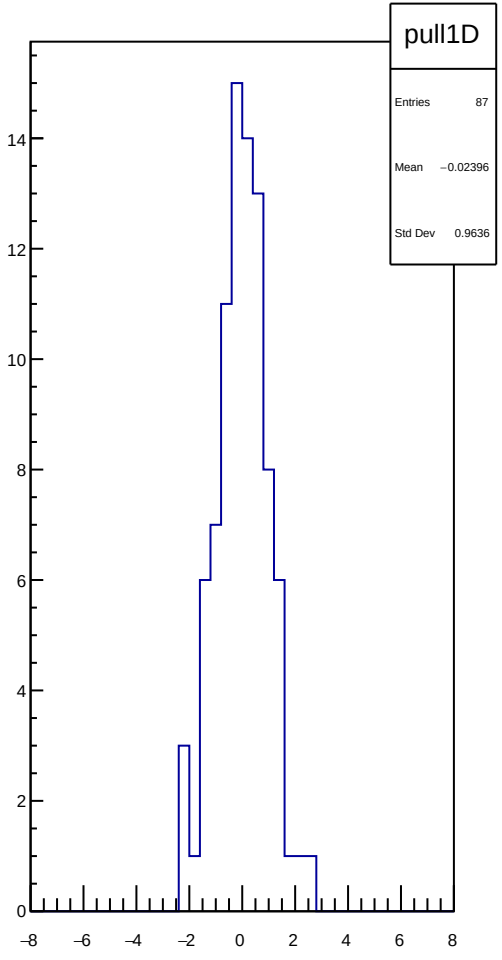

dit_asym_sam_37_avg_rms vs run
χ² / ndf 8.982e+04 / 86
p0 92.74 ± 0.07338
220
200
180
160
140
120
100
80
60

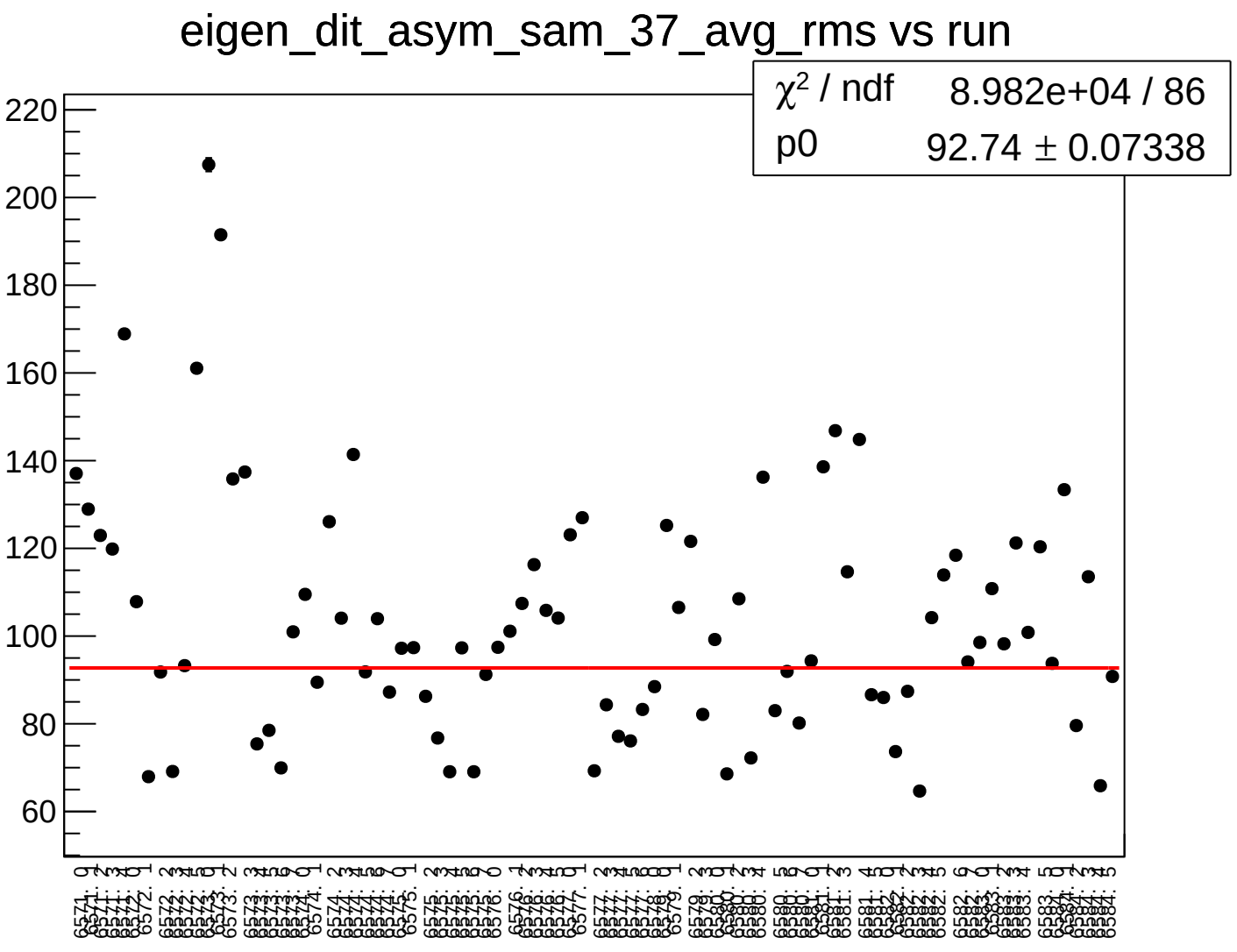

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 110.3 / 86
p0 −1209 ± 628.7
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 418.6
Std Dev 0
2
1
0
−1
−2
−3

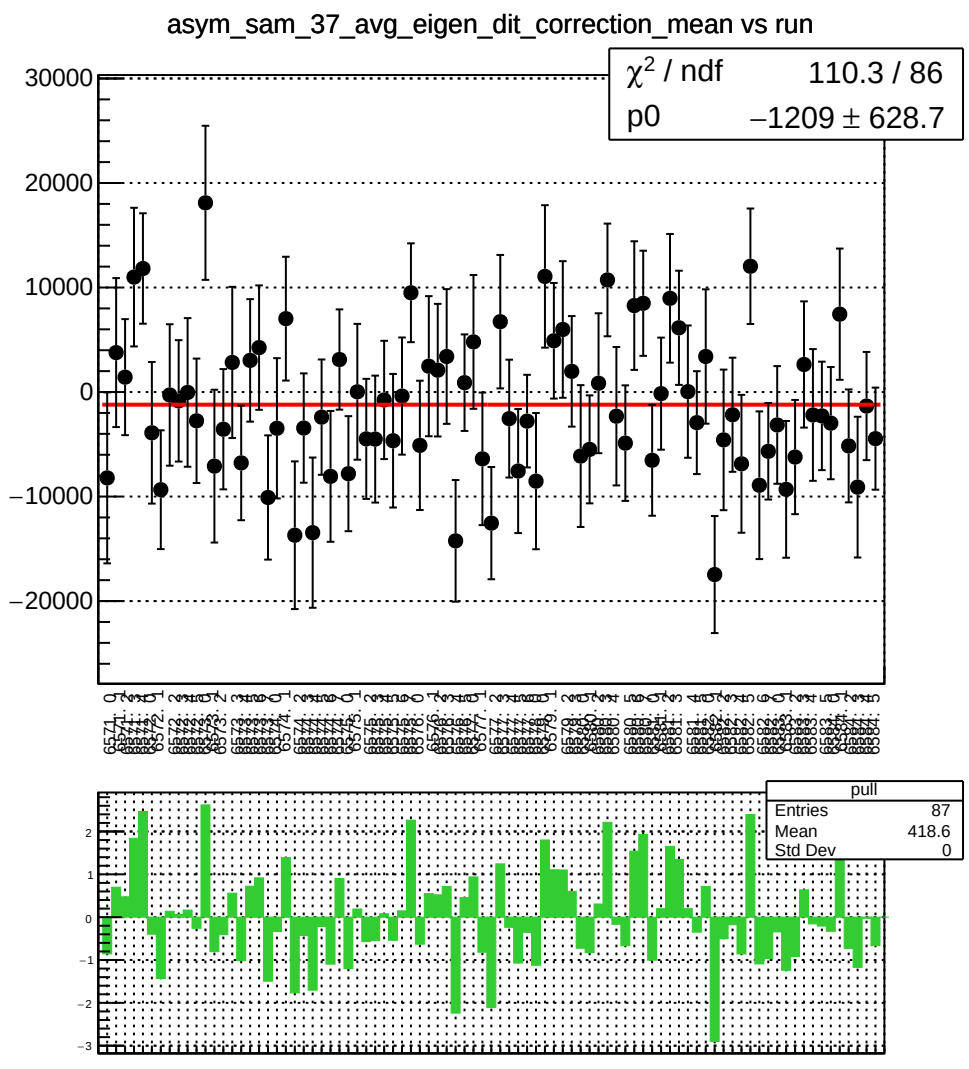

pull1D
Entries 87
Mean −0.005467
Std Dev 1.126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

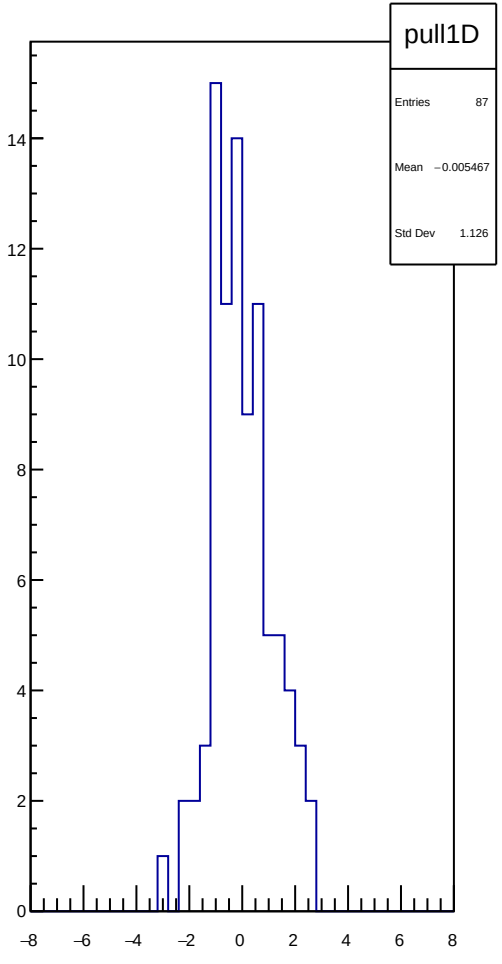

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.648e+04 / 86
p0 574.5 ± 0.4445
800
750
700
650
600
550
500

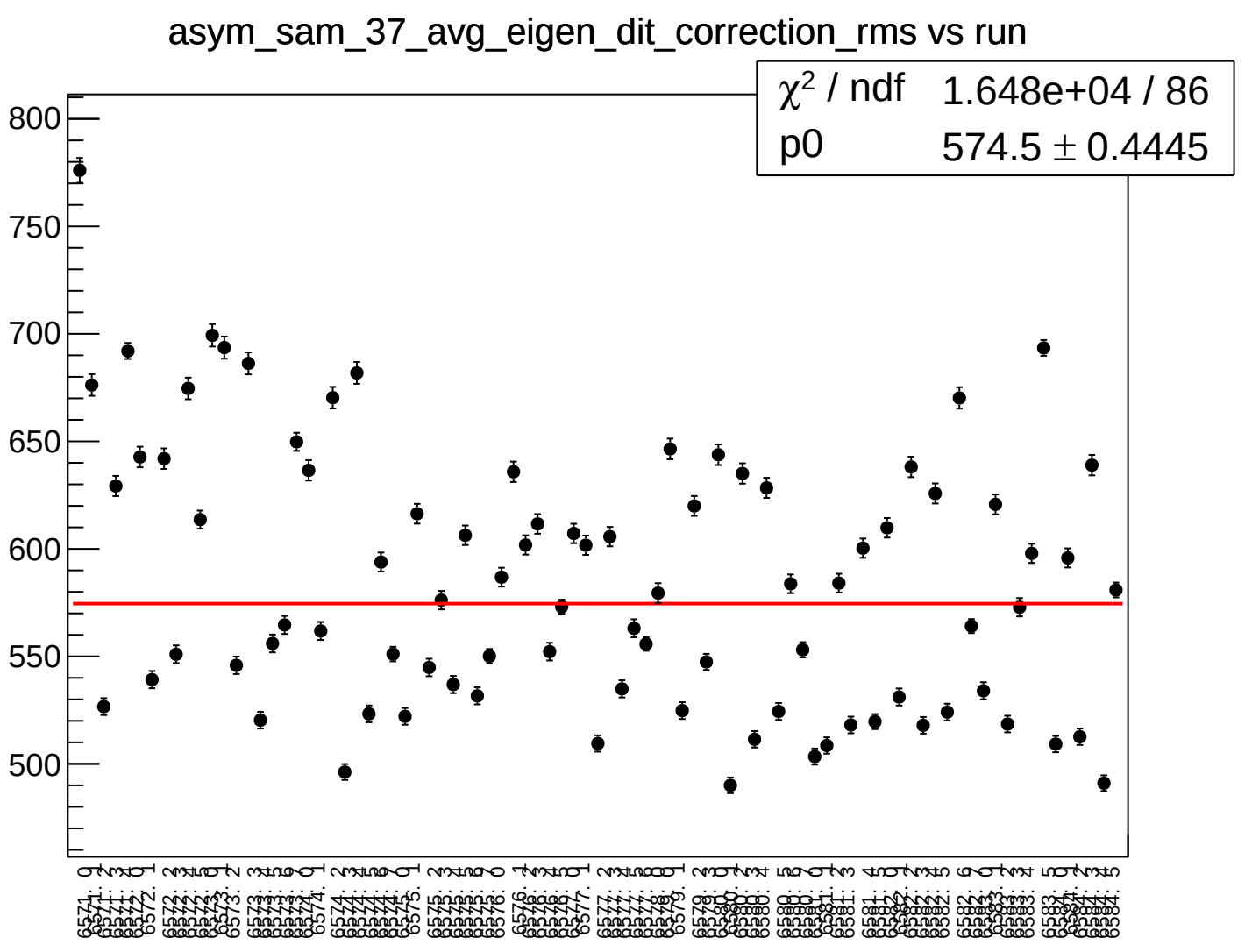

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 80.84 / 86
p0 177.6 ± 103.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 75
Std Dev 50.95
2
1
0
−1
−2

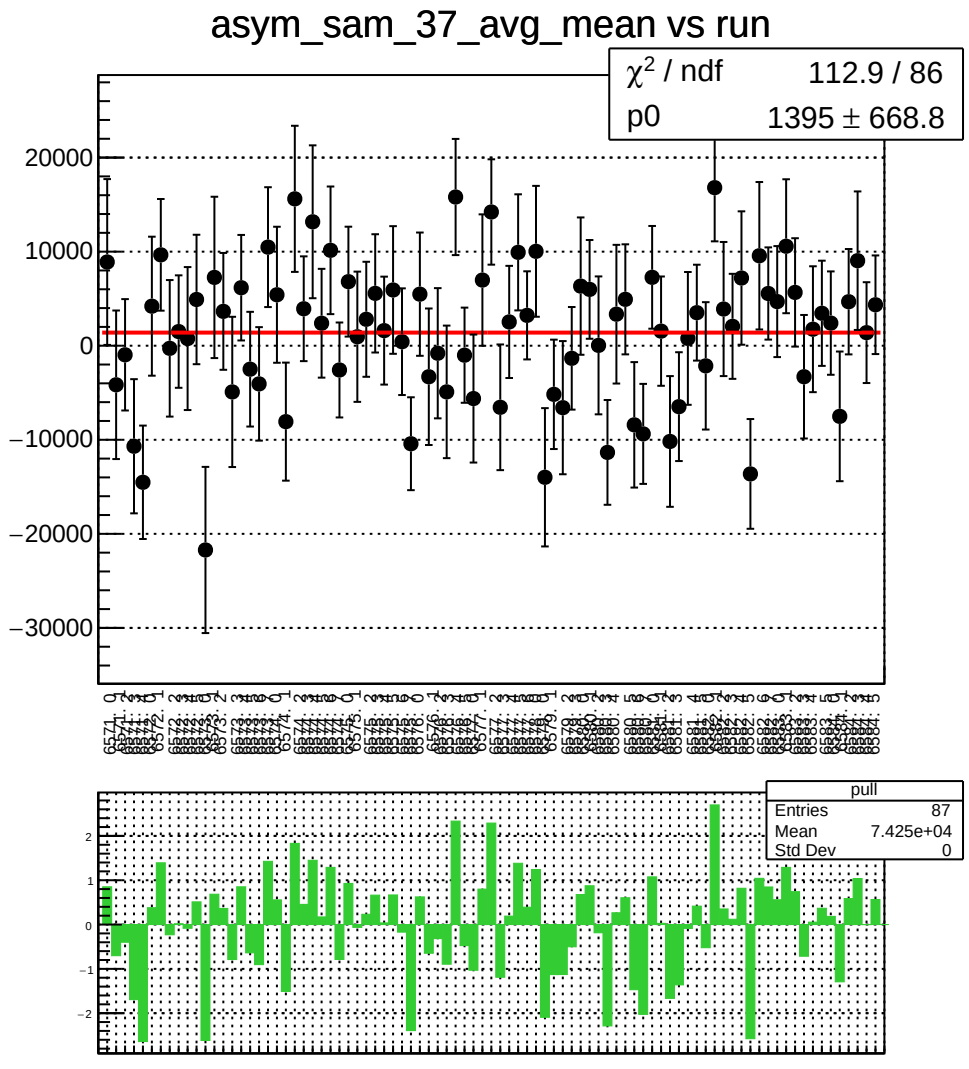

pull1D
Entries 87
Mean −0.02396
Std Dev 0.9636
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

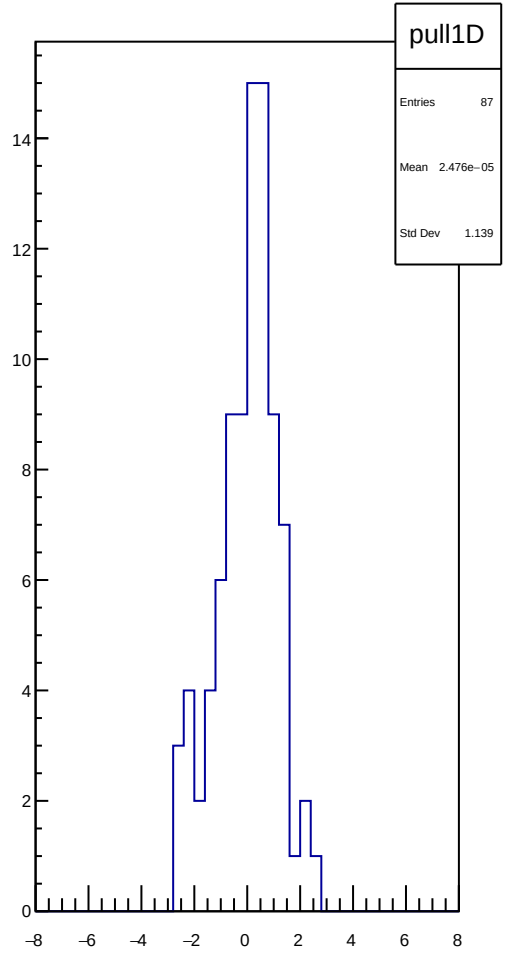

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 8.982e+04 / 86
p0 92.74 ± 0.07338
220
200
180
160
140
120
100
80
60

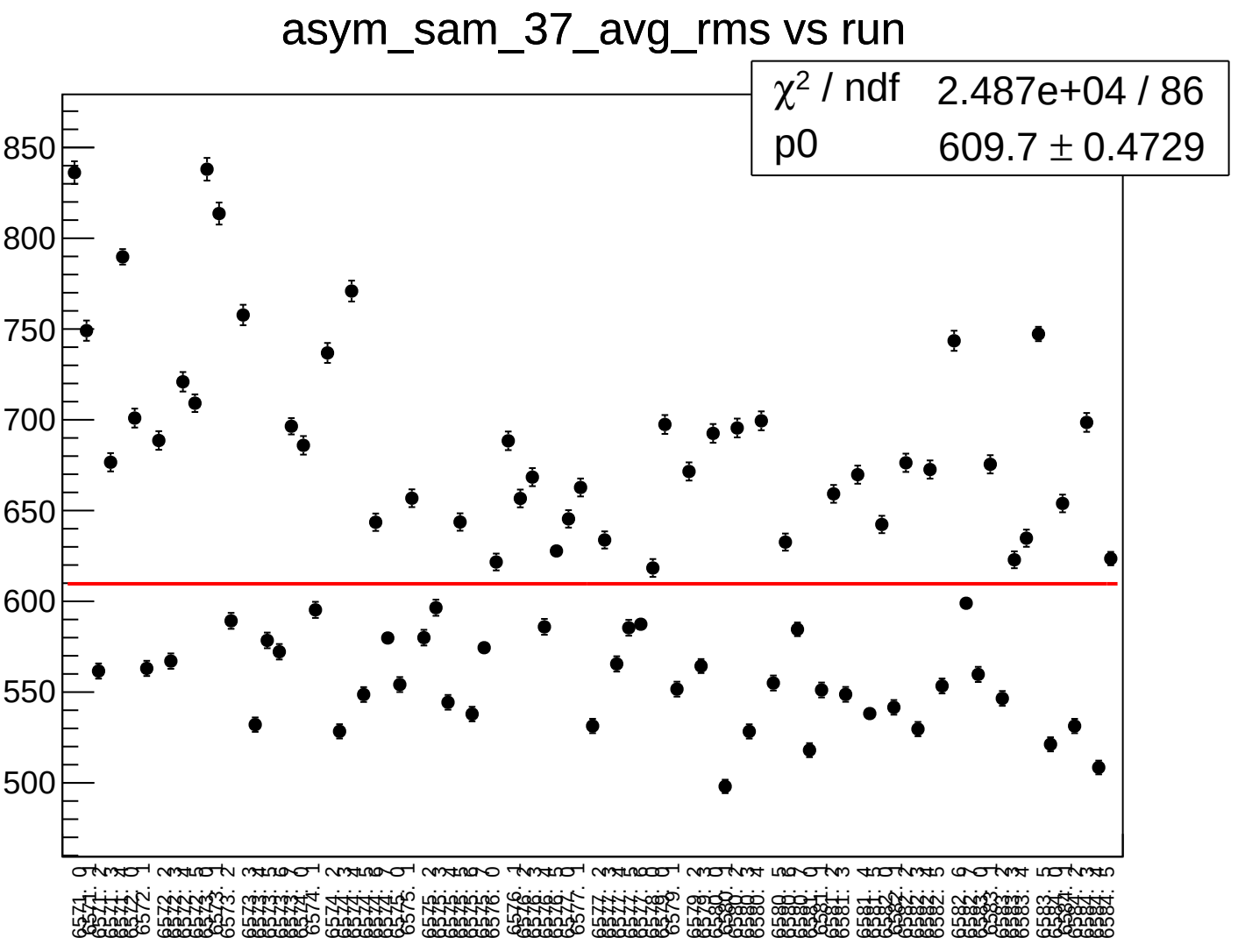

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 110.3 / 86
p0 −1209 ± 628.7
pull
Entries 87
Mean 418.6
Std Dev 0

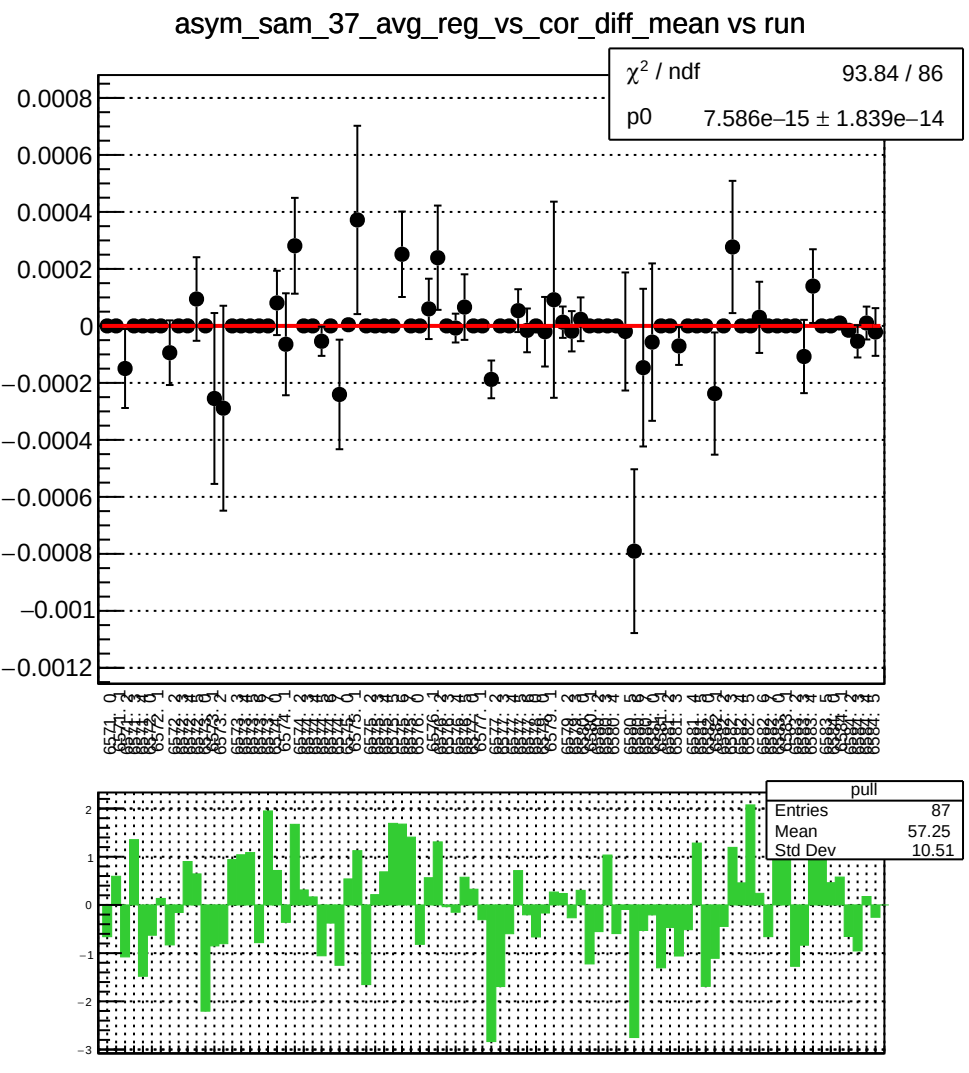

pull1D
Entries 87
Mean −0.005467
Std Dev 1.126

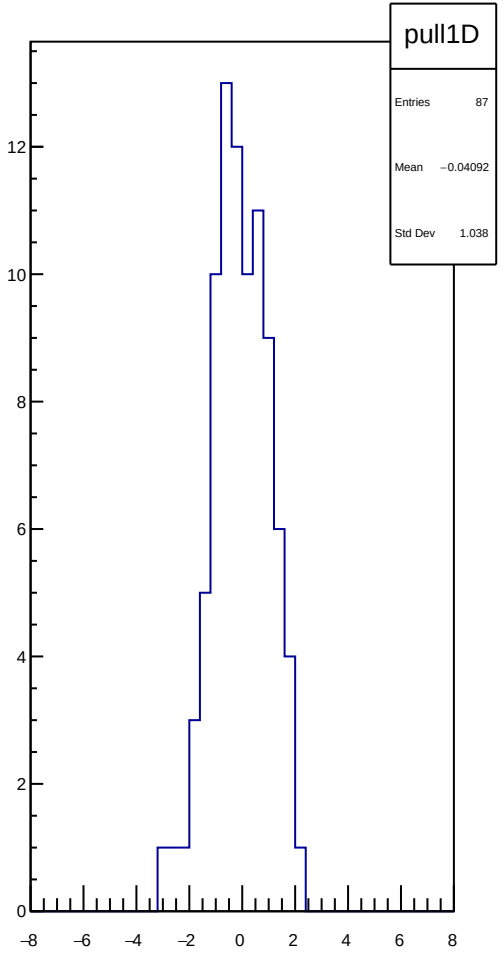

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.648e+04 / 86
p0 574.5 ± 0.4445
800
750
700
650
600
550
500

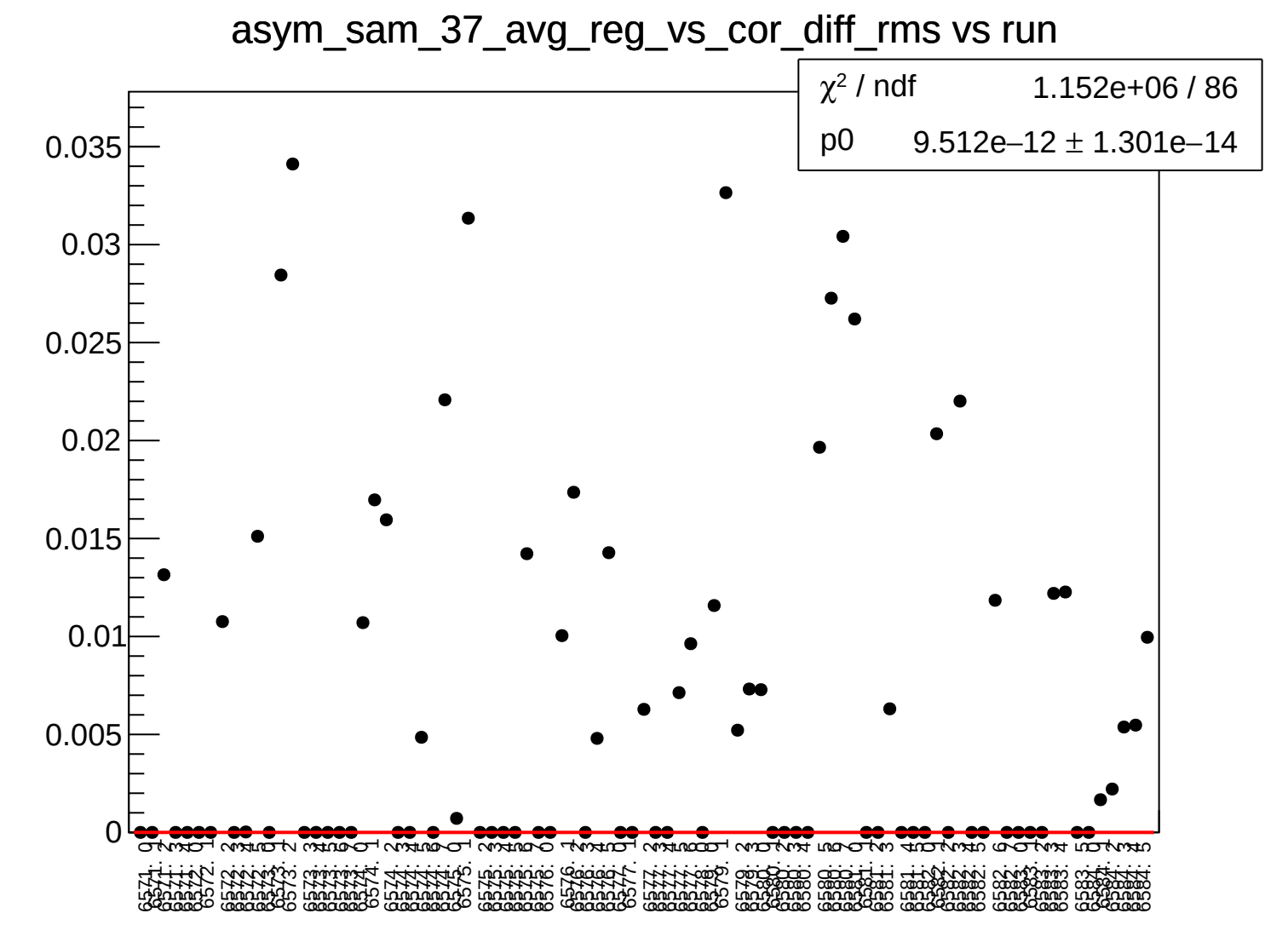

asym_sam_37_avg_mean vs run
χ² / ndf 112.9 / 86
p0 1395 ± 668.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 7.425e+04
Std Dev 0
2
1
0
−1
−2

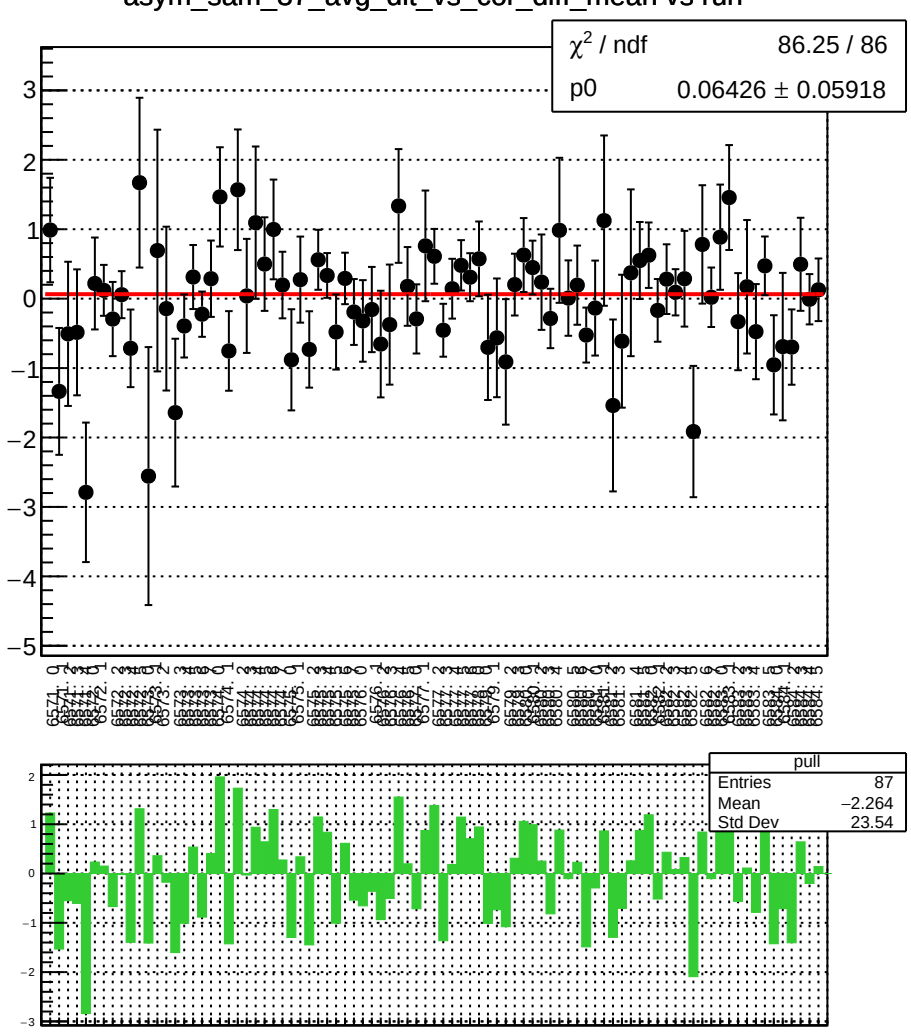

pull1D
Entries 87
Mean 2.476e−05
Std Dev 1.139
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

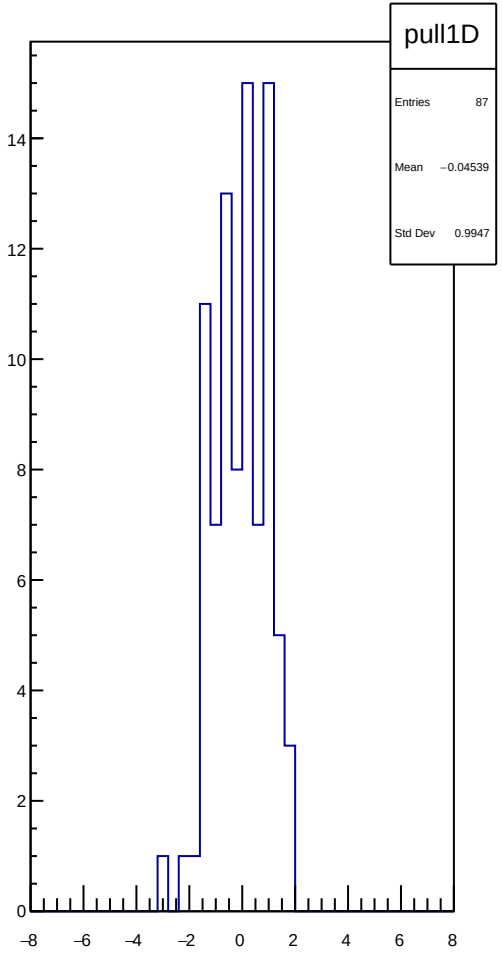

asym_sam_37_avg_rms vs run
χ² / ndf 2.487e+04 / 86
p0 609.7 ± 0.4729
850
800
750
700
650
600
550
500

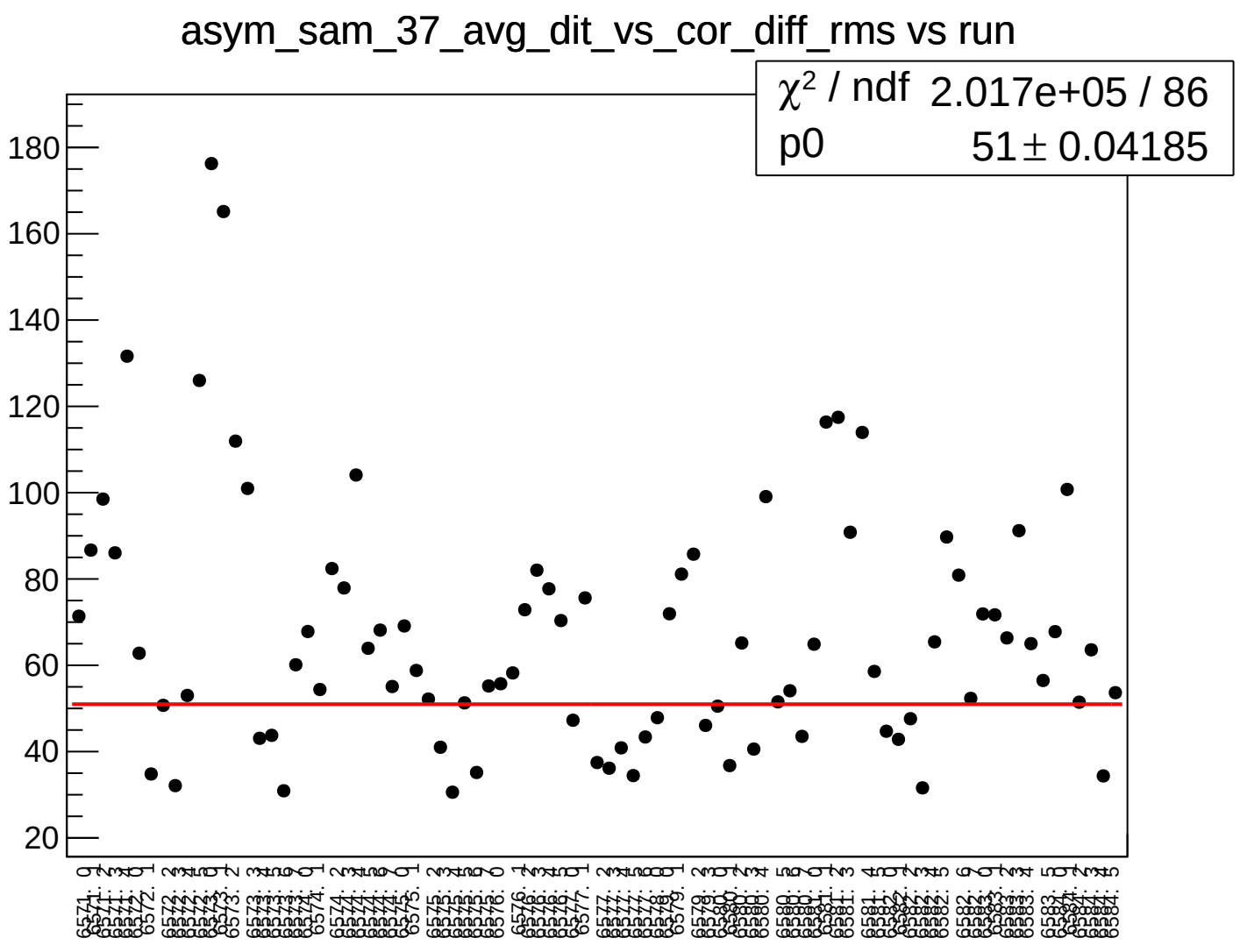

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.84 / 86
p0 7.586e−15 ± 1.839e−14
pull
Entries 87
Mean 57.25
Std Dev 10.51

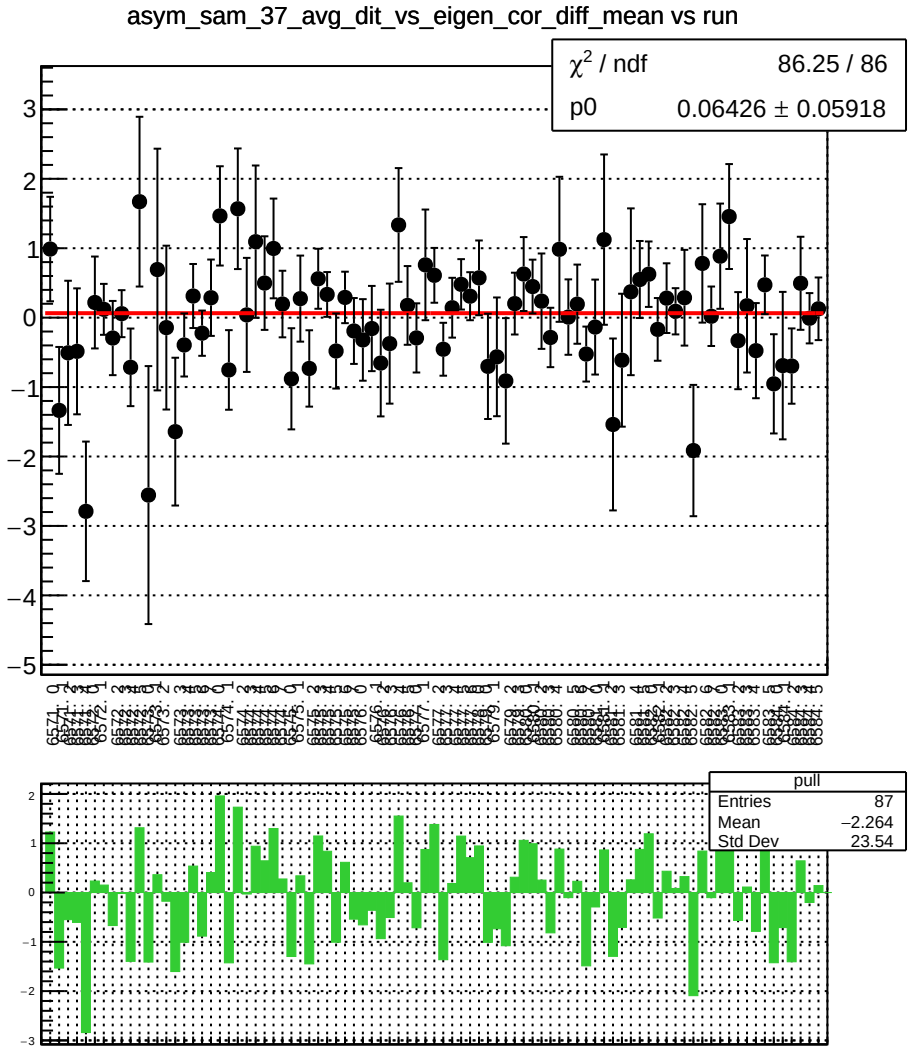

pull1D
Entries 87
Mean −0.04092
Std Dev 1.038

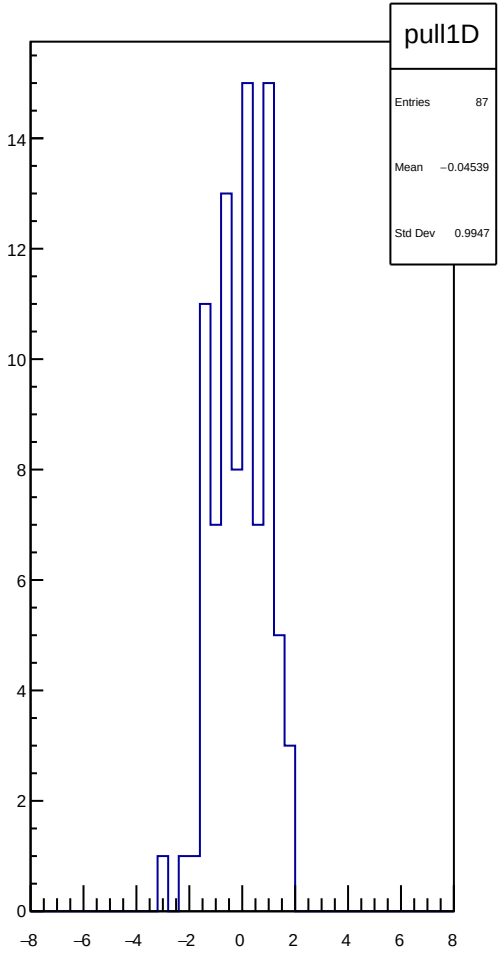

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.152e+06 / 86
p0 9.512e−12 ± 1.301e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

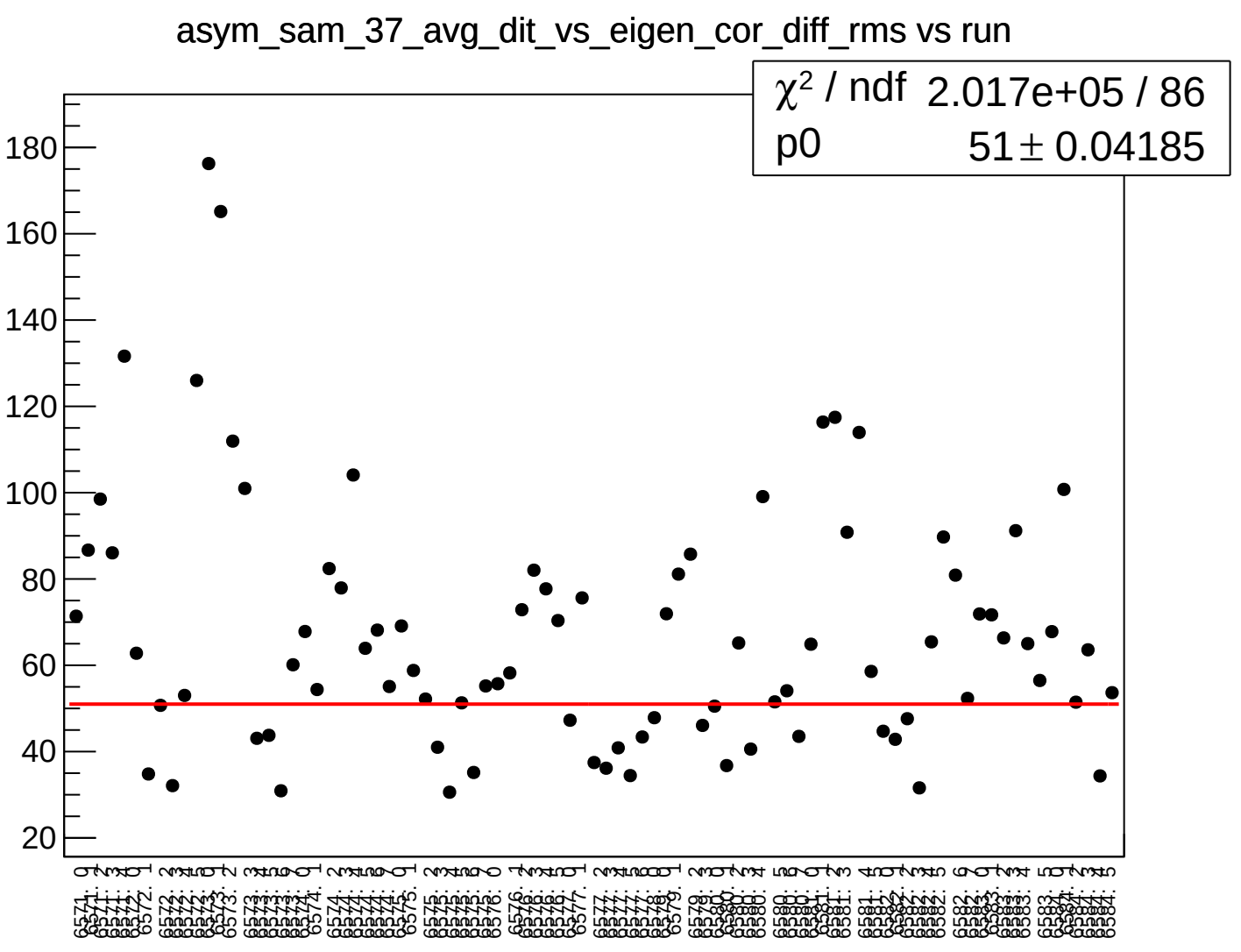

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.25 / 86
p0 0.06426 ± 0.05918
pull
Entries 87
Mean −2.264
Std Dev 23.54

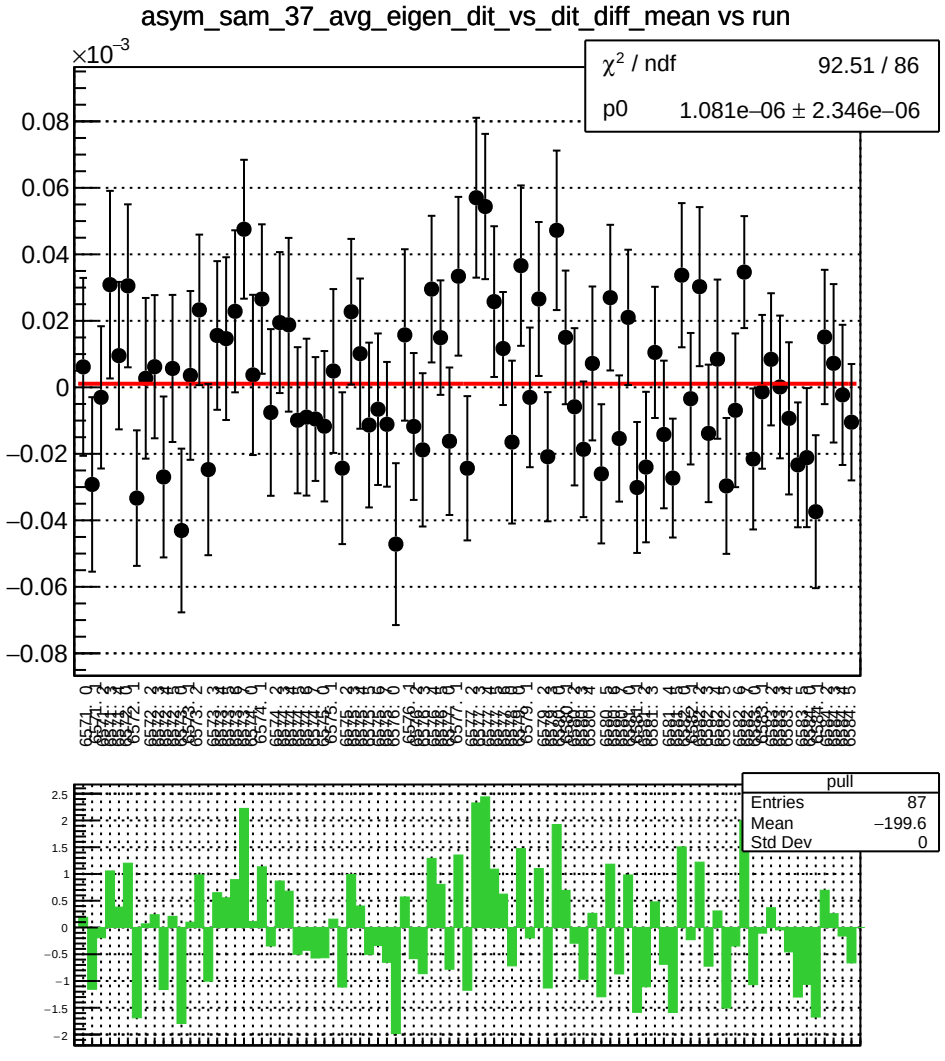

pull1D
Entries 87
Mean −0.04539
Std Dev 0.9947

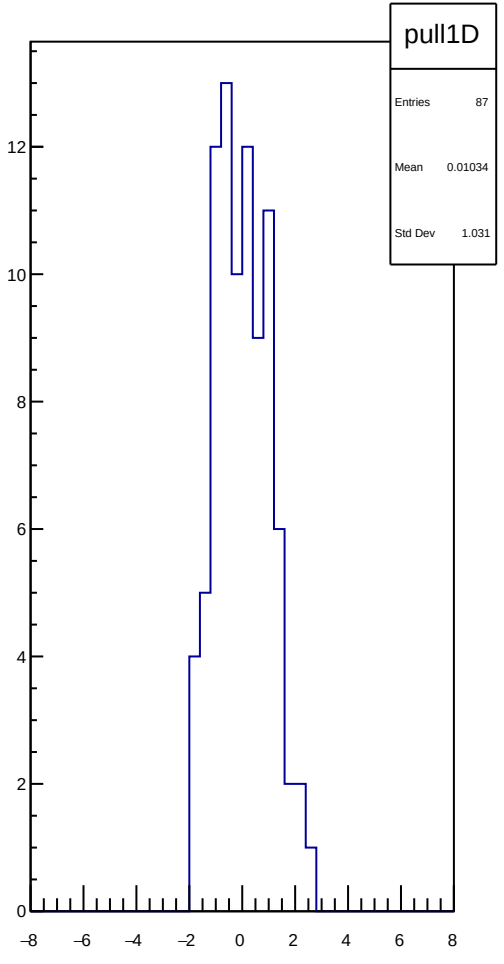

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.017e+05 / 86
p0 51 ± 0.04185
180
160
140
120
100
80
60
40
20

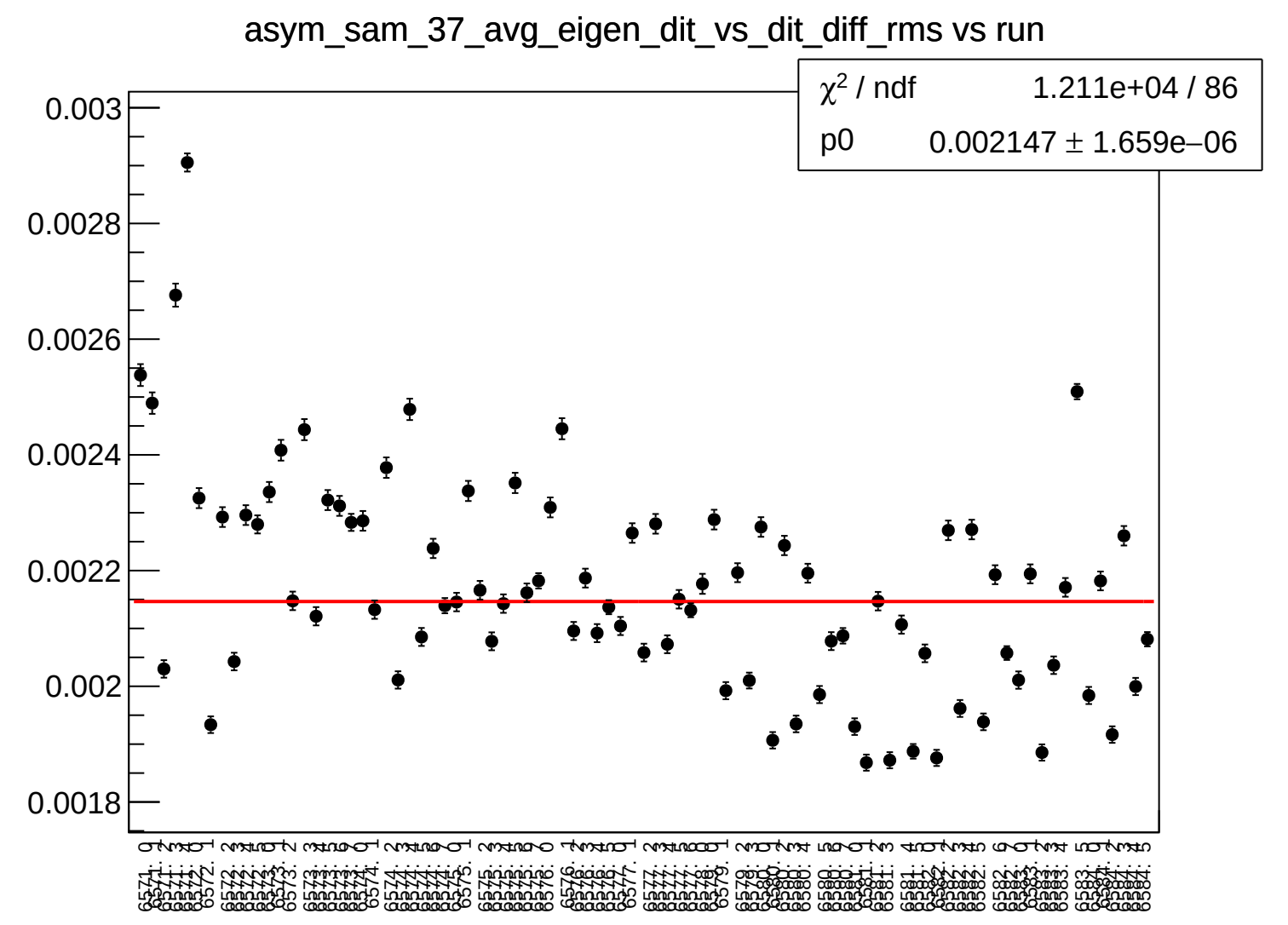

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.25 / 86
p0 0.06426 ± 0.05918
pull
Entries 87
Mean −2.264
Std Dev 23.54

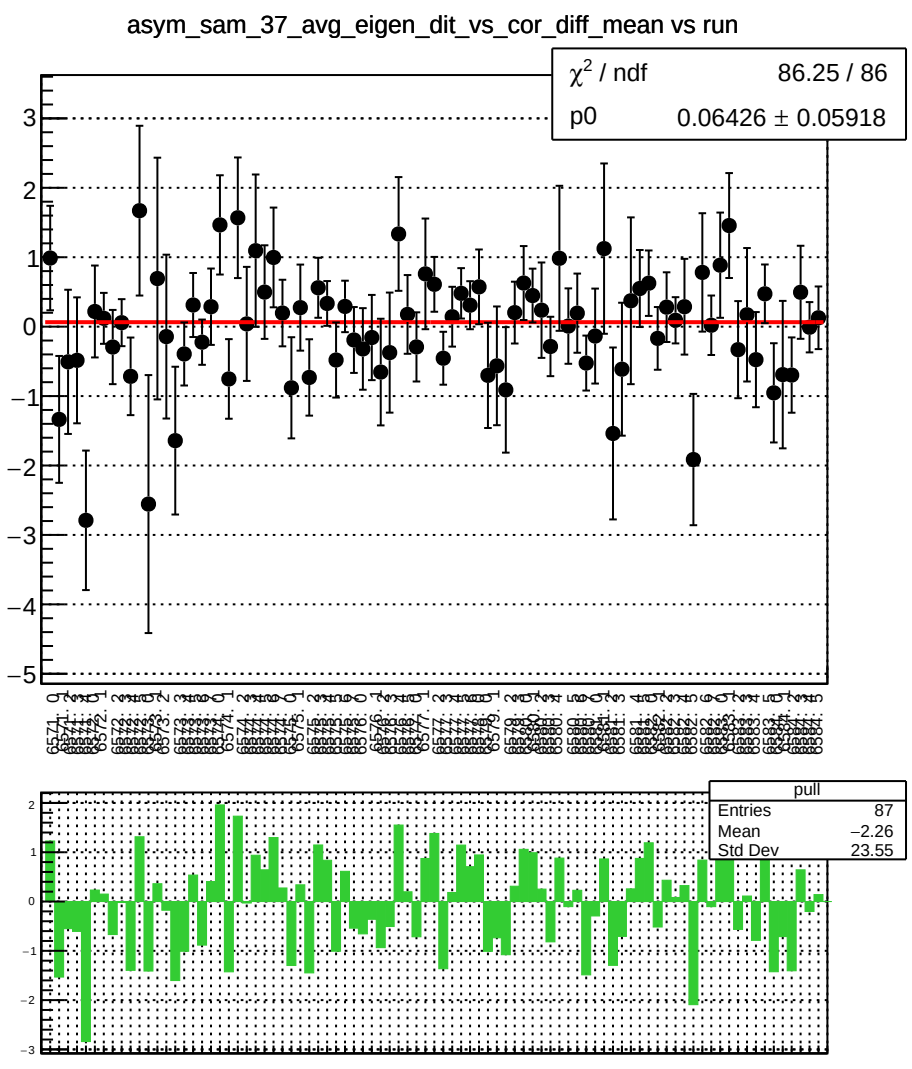

pull1D
Entries 87
Mean −0.04539
Std Dev 0.9947

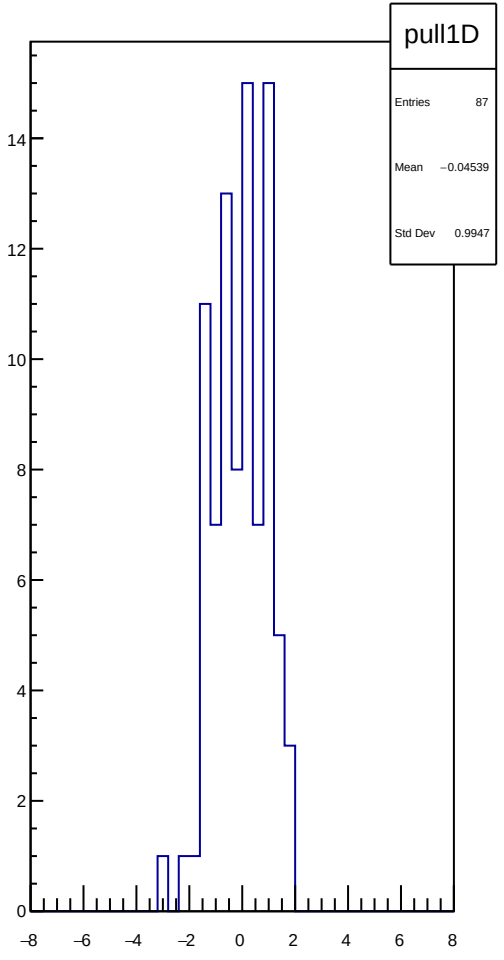

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.017e+05 / 86
p0 51 ± 0.04185
180
160
140
120
100
80
60
40
20

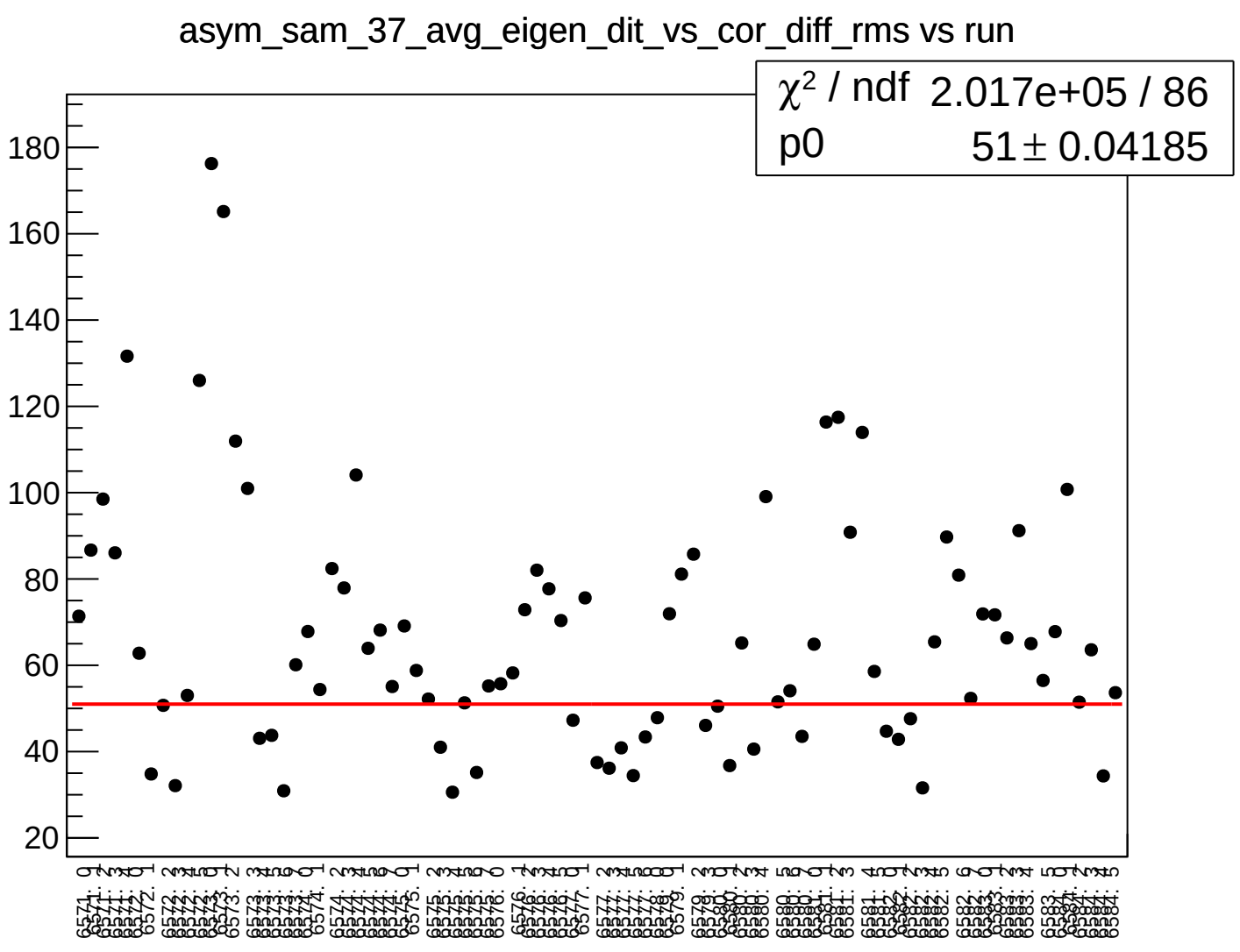

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.51 / 86
p0 1.081e−06 ± 2.346e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 87
Mean −199.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

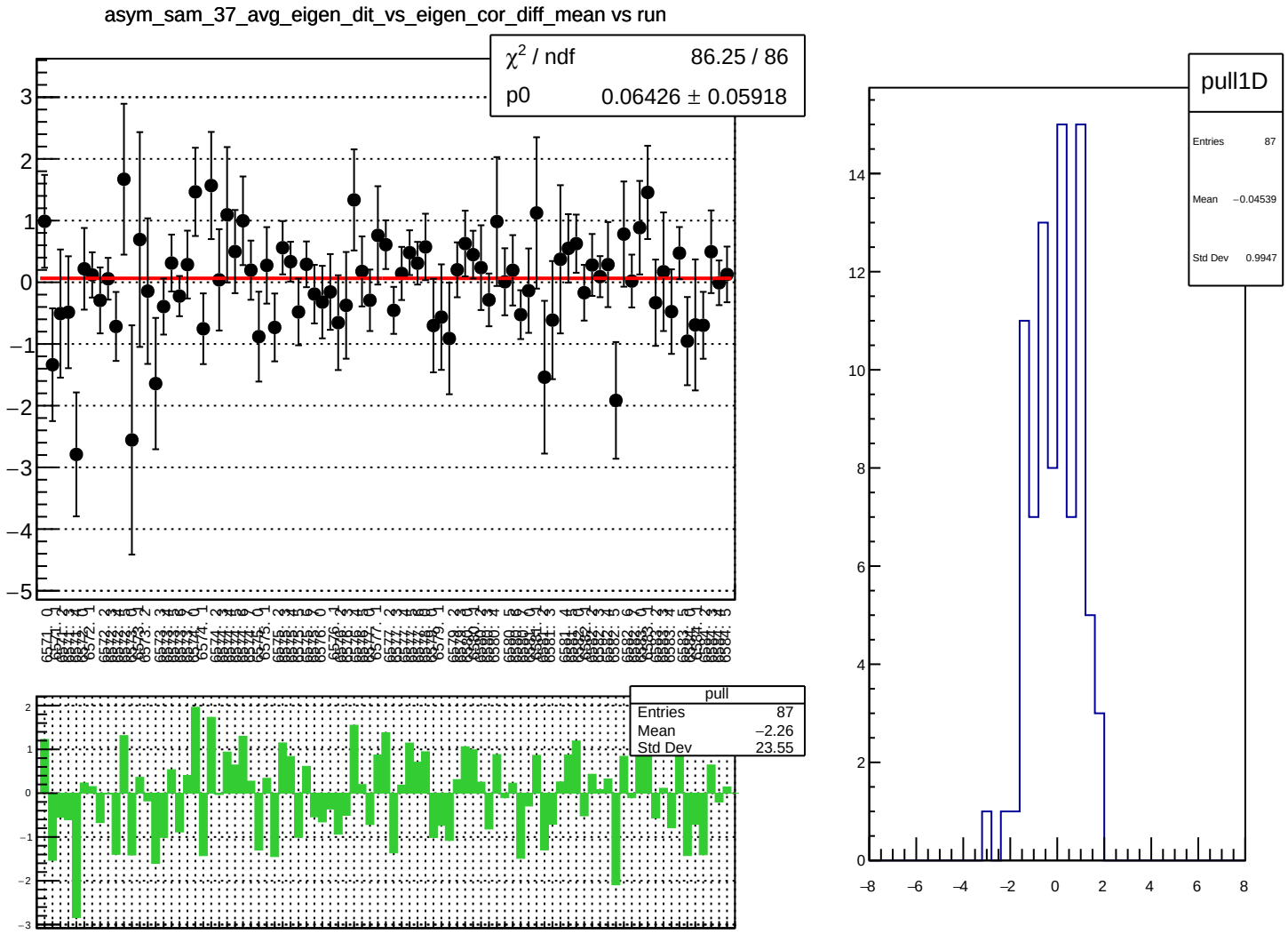

pull1D
Entries 87
Mean 0.01034
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

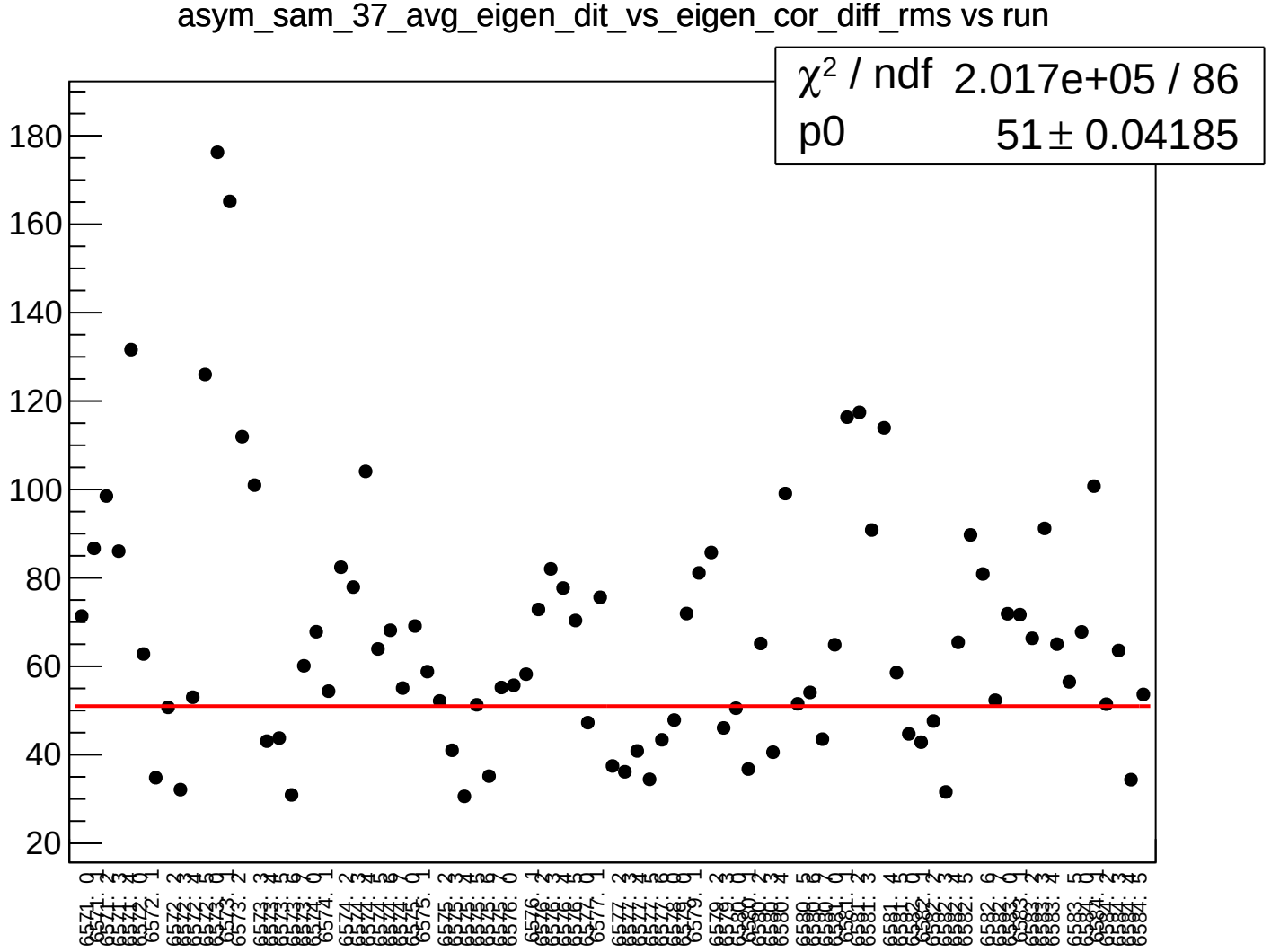

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.211e+04 / 86
p0 0.002147 ± 1.659e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

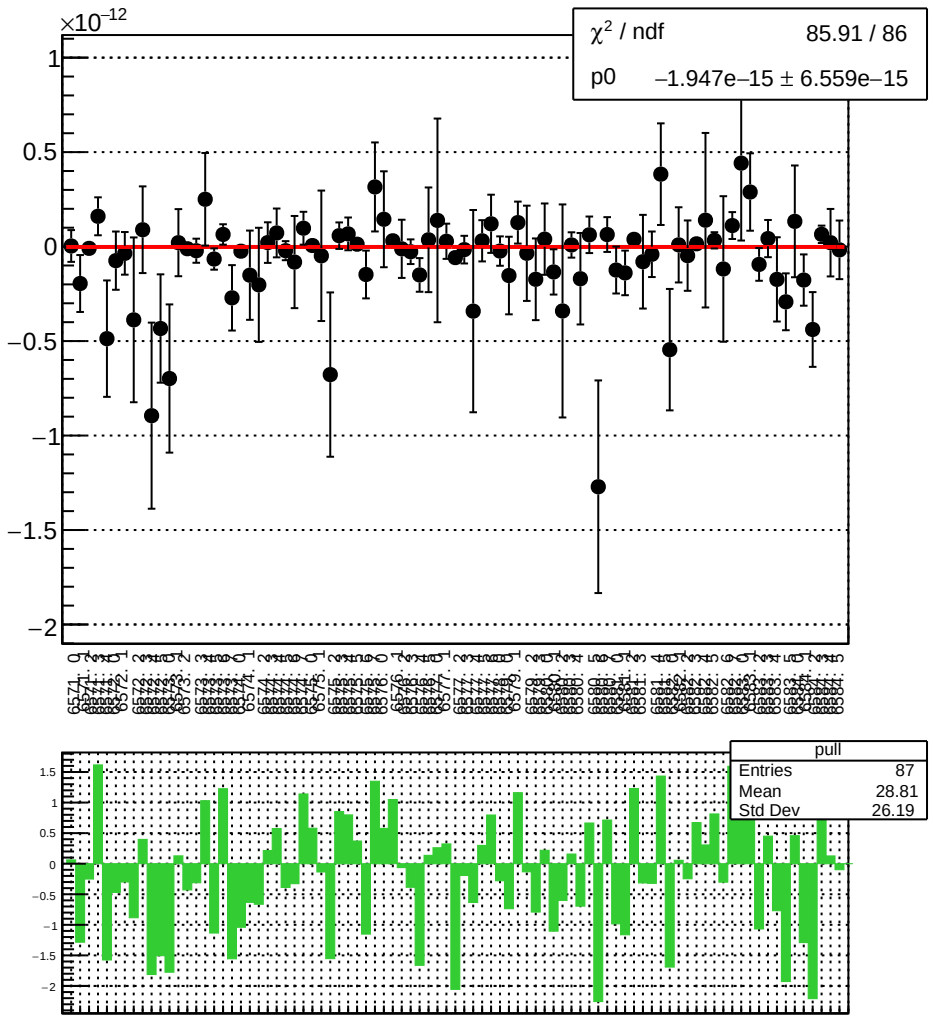

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.25 / 86
p0 0.06426 ± 0.05918
pull
Entries 87
Mean −2.26
Std Dev 23.55

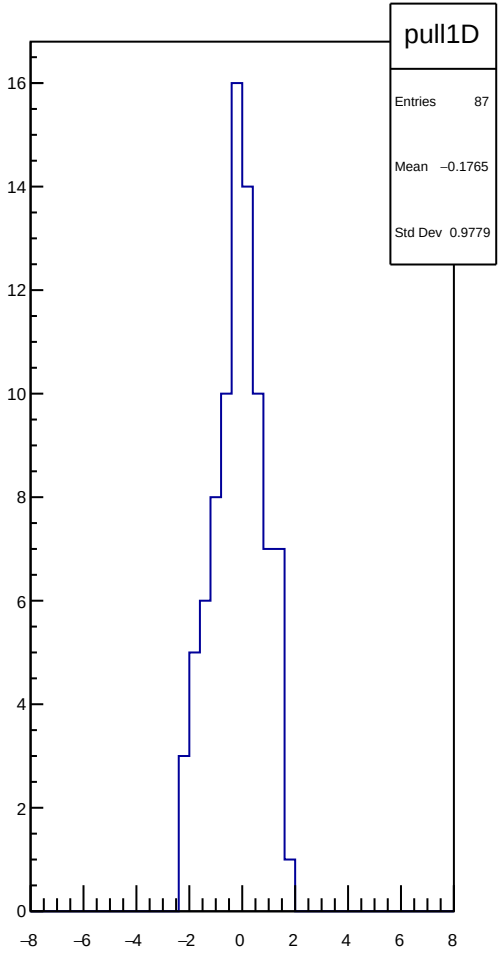

pull1D
Entries 87
Mean −0.04539
Std Dev 0.9947

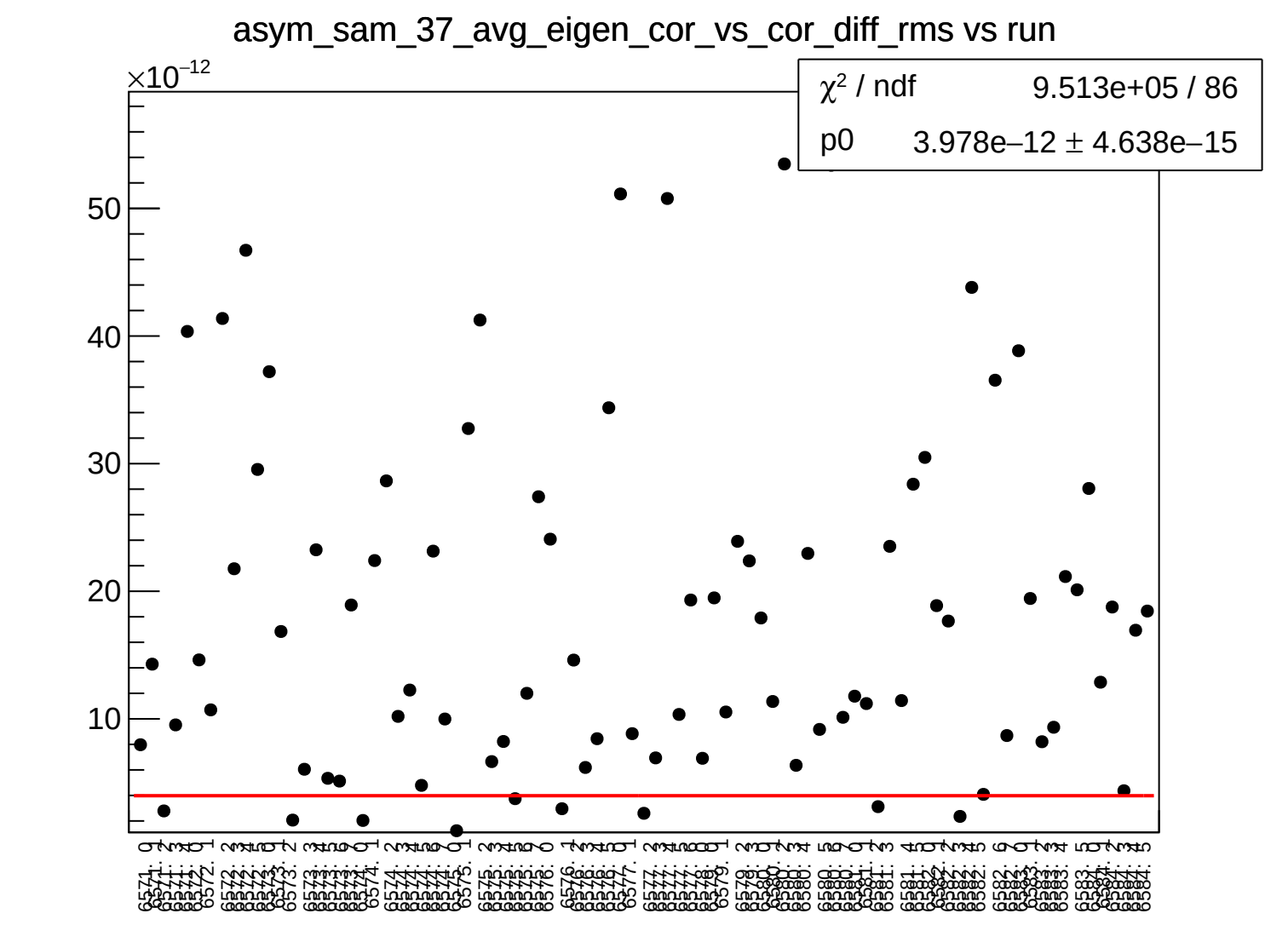

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.017e+05 / 86
p0 51 ± 0.04185
180
160
140
120
100
80
60
40
20

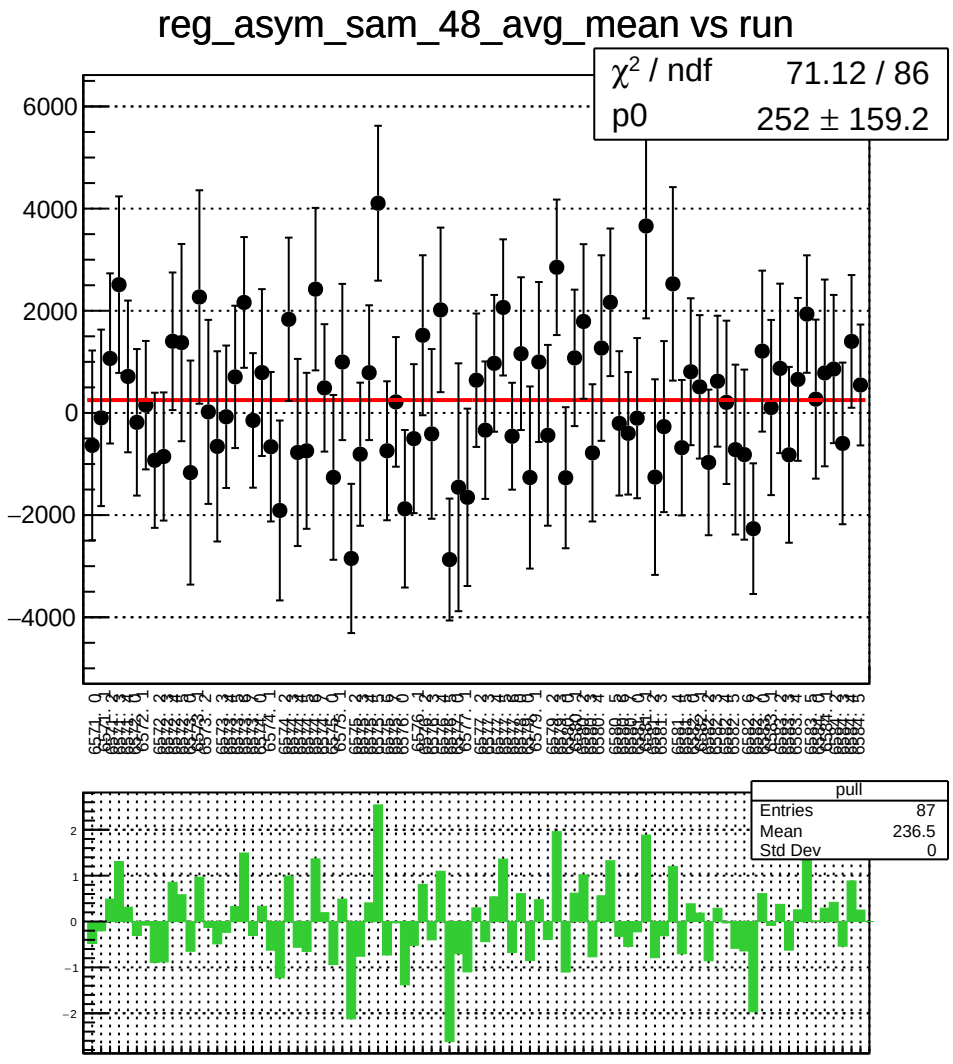

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.25 / 86
p0 0.06426 ± 0.05918
pull
Entries 87
Mean −2.26
Std Dev 23.55
pull1D
Entries 87
Mean −0.04539
Std Dev 0.9947

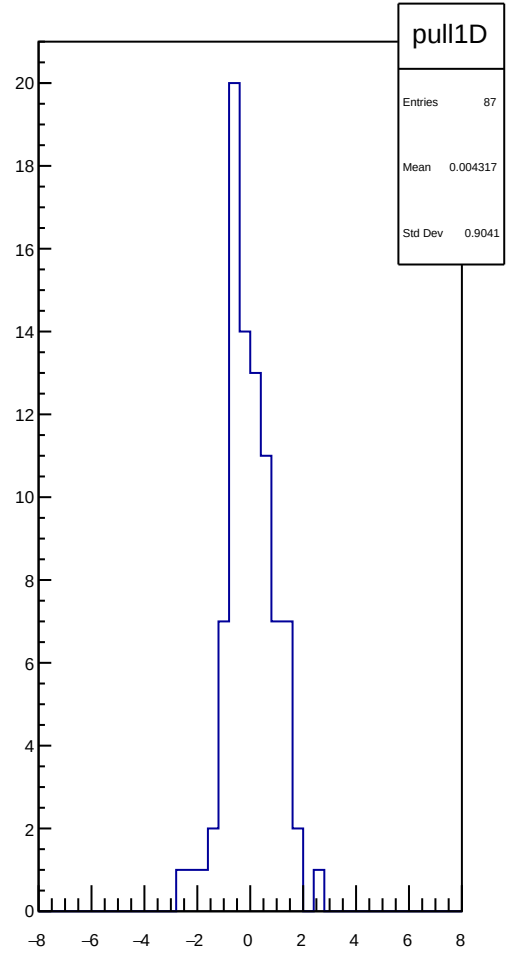

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.017e+05 / 86
p0 51 ± 0.04185
180
160
140
120
100
80
60
40
20

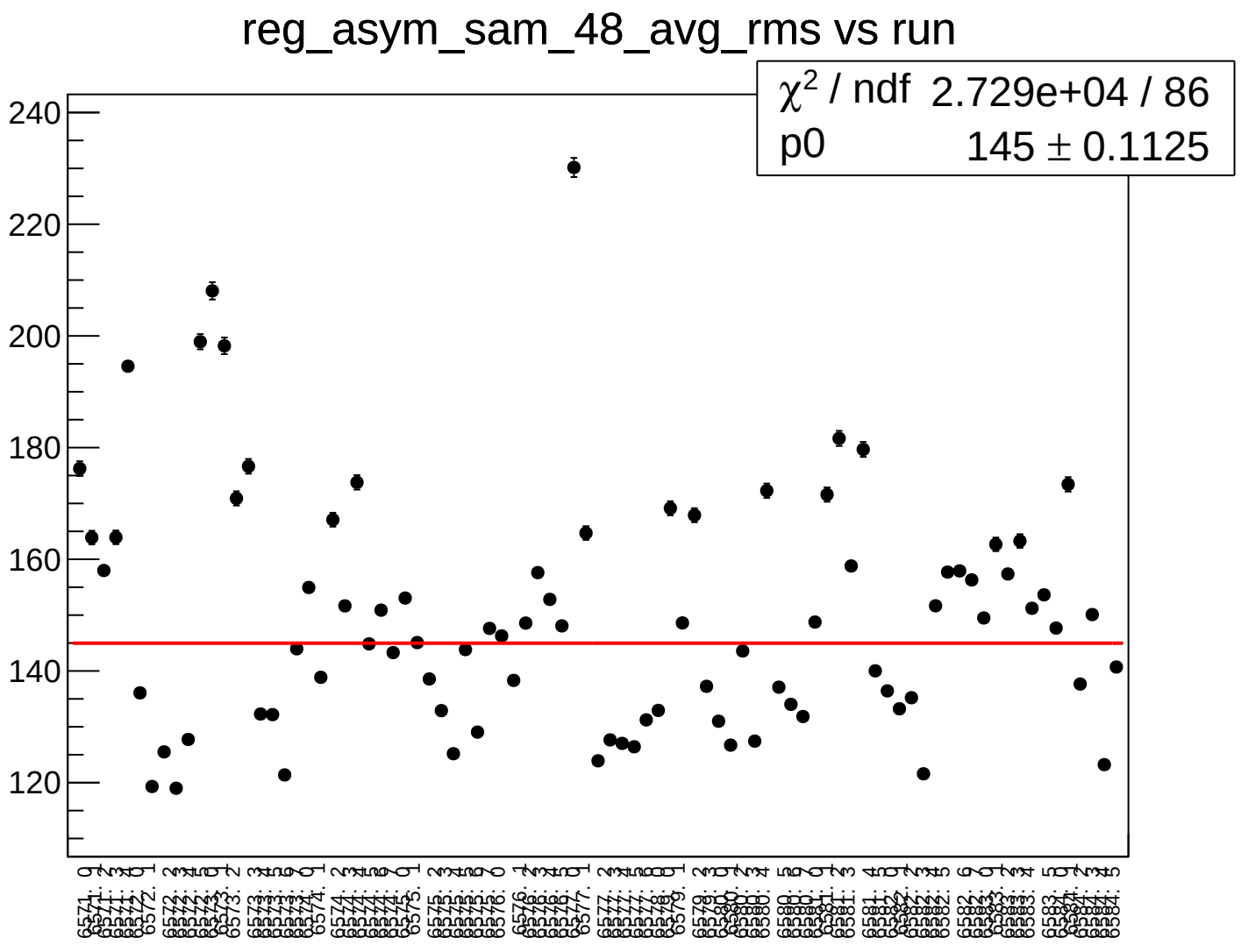

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.91 / 86
p0 −1.947e−15 ± 6.559e−15
pull
Entries 87
Mean 28.81
Std Dev 26.19

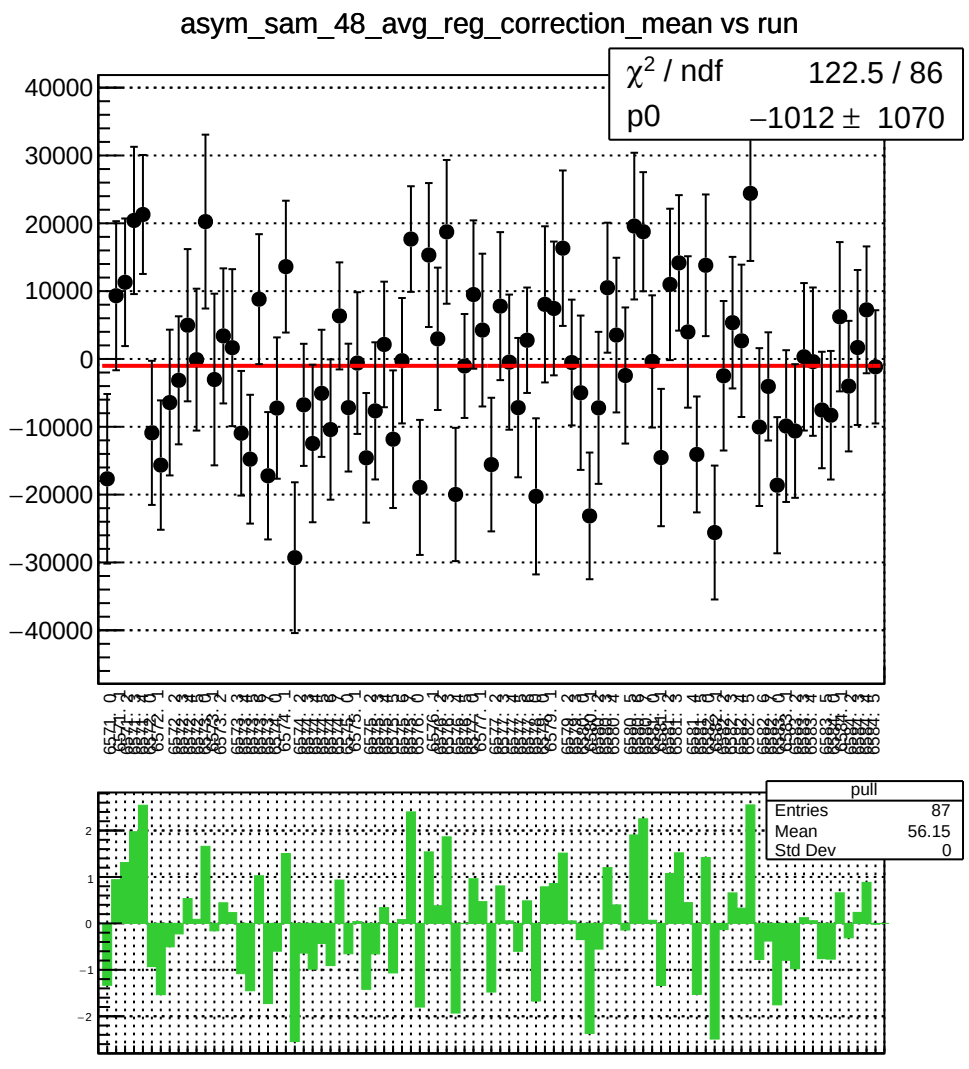

pull1D
Entries 87
Mean −0.1765
Std Dev 0.9779

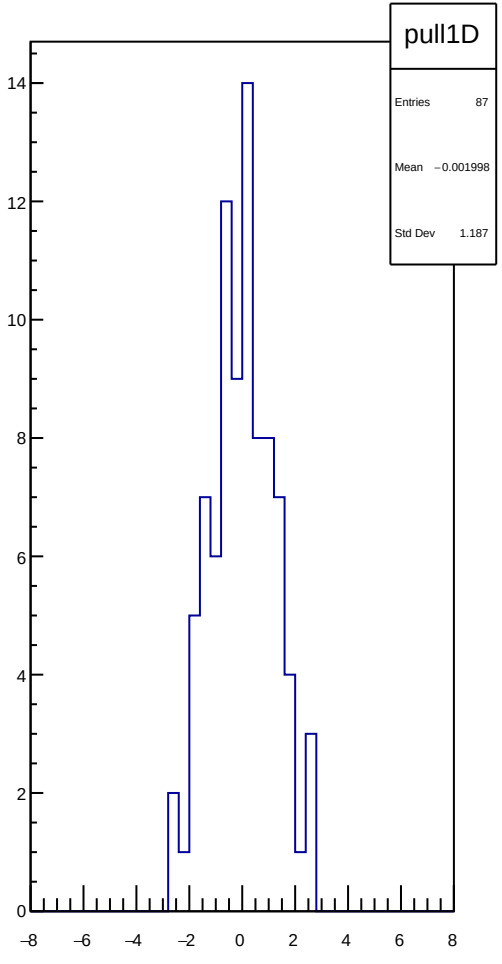

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.513e+05 / 86
p0 3.978e−12 ± 4.638e−15
50
40
30
20
10


reg_asym_sam_48_avg_mean vs run
χ² / ndf 71.12 / 86
p0 252 ± 159.2
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 236.5
Std Dev 0
2
1
0
−1
−2

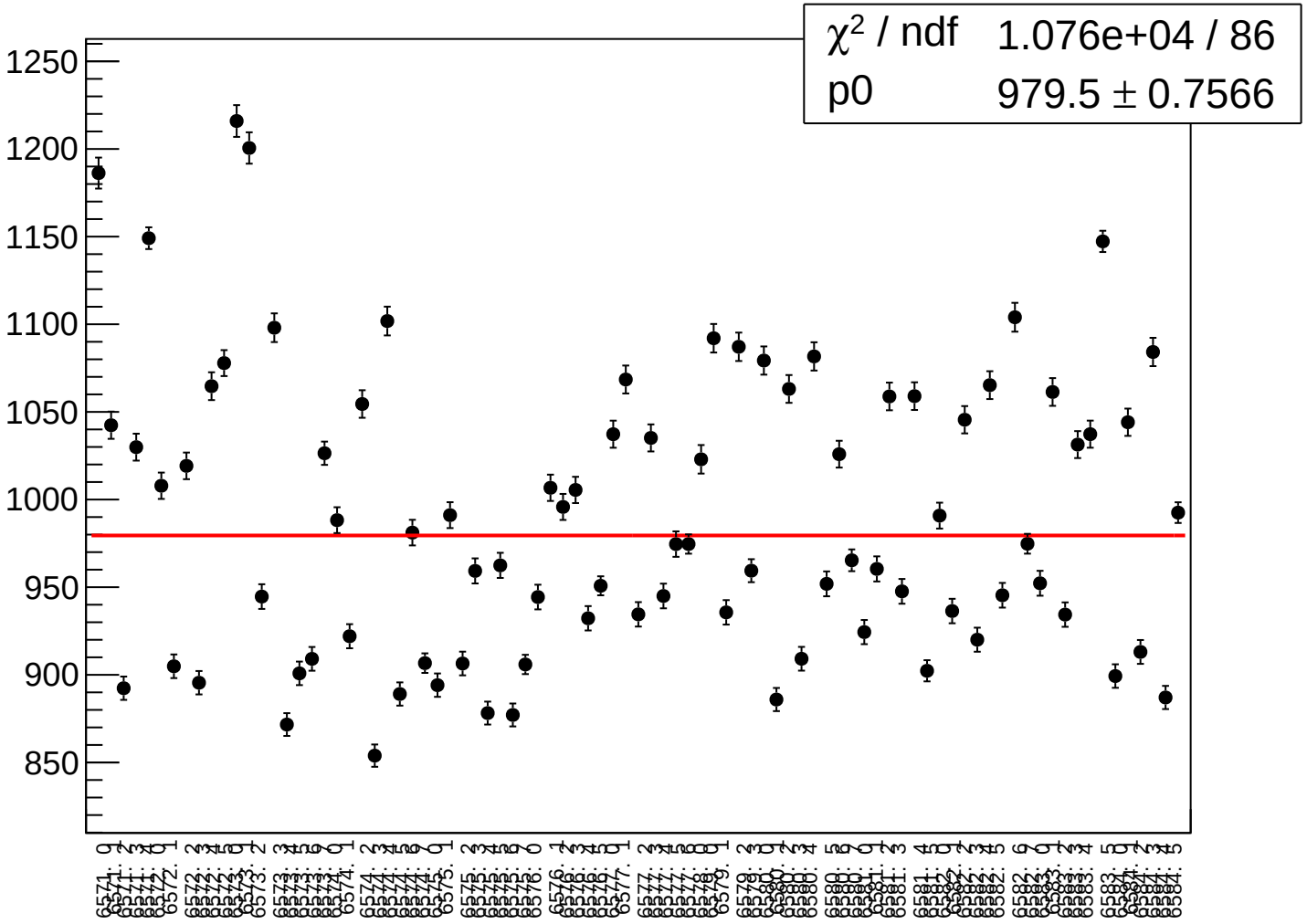

pull1D
Entries 87
Mean 0.004317
Std Dev 0.9041
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

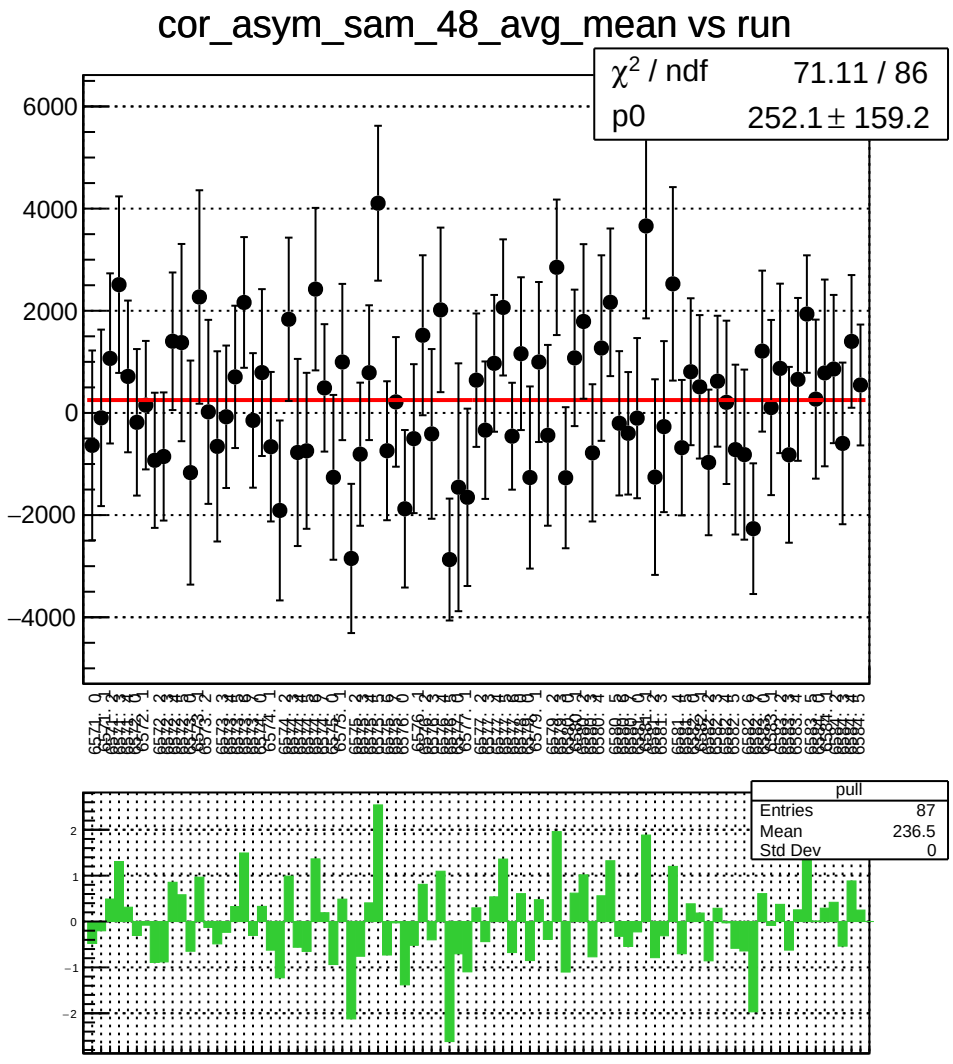

reg_asym_sam_48_avg_rms vs run
χ² / ndf 2.729e+04 / 86
p0 145 ± 0.1125
240
220
200
180
160
140
120

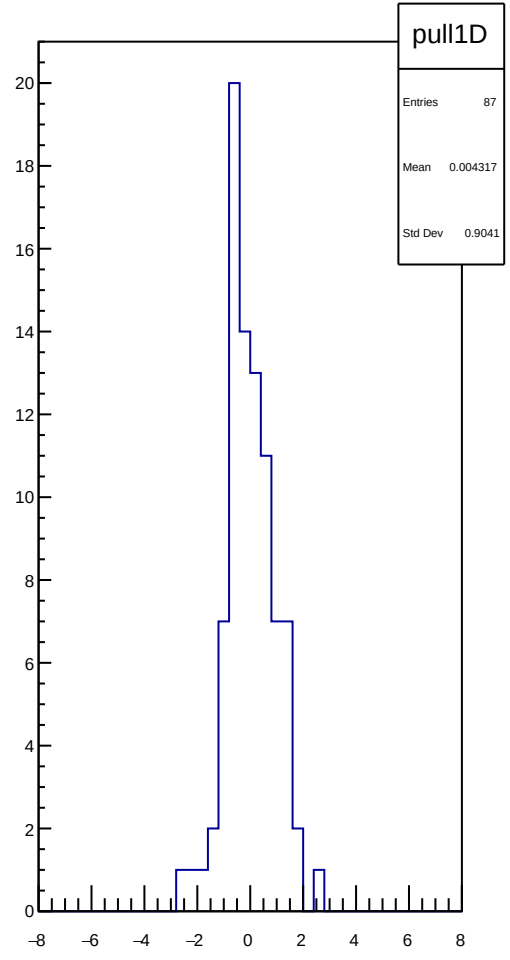

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 122.5 / 86
p0 −1012 ± 1070
pull
Entries 87
Mean 56.15
Std Dev 0

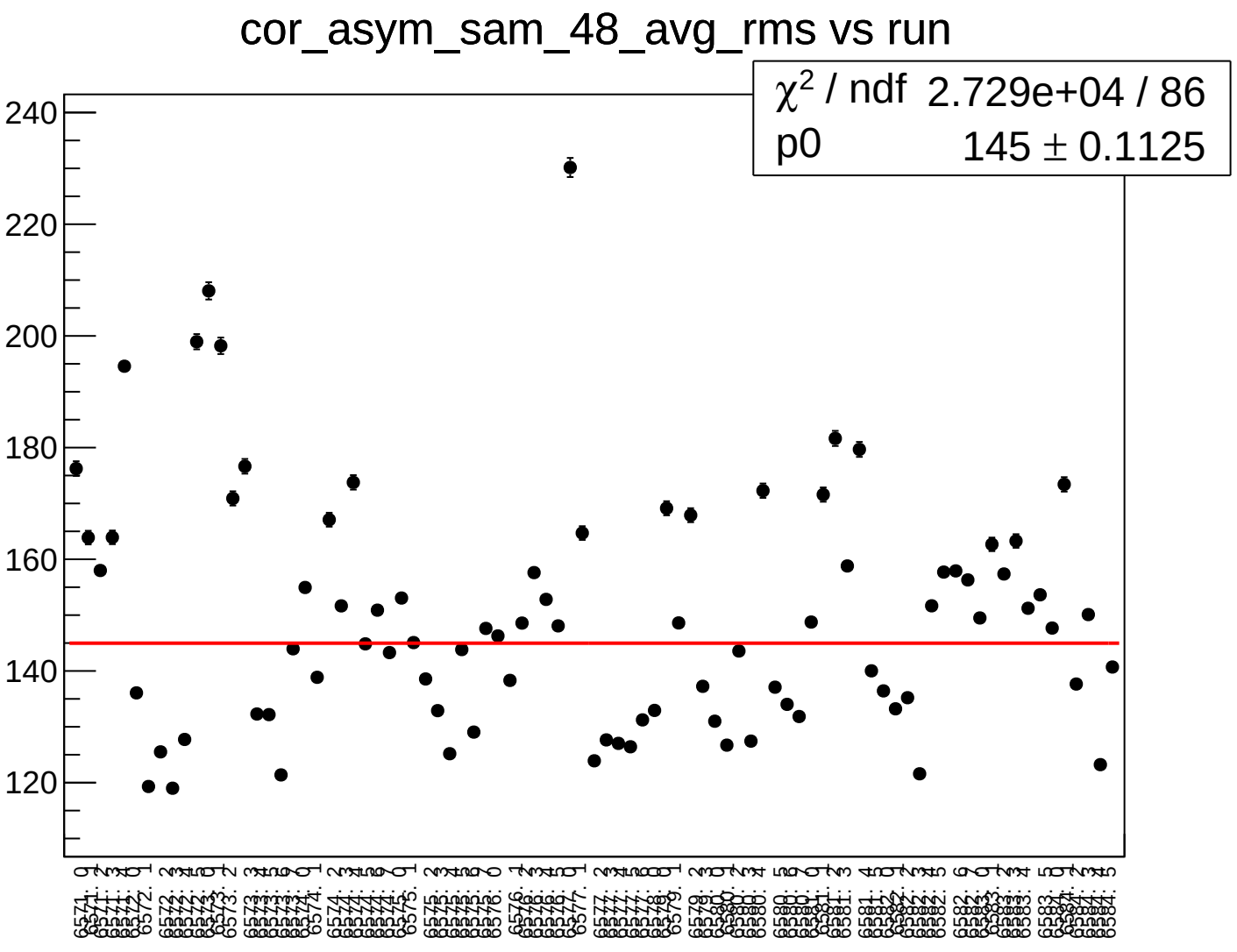

pull1D
Entries 87
Mean −0.001998
Std Dev 1.187

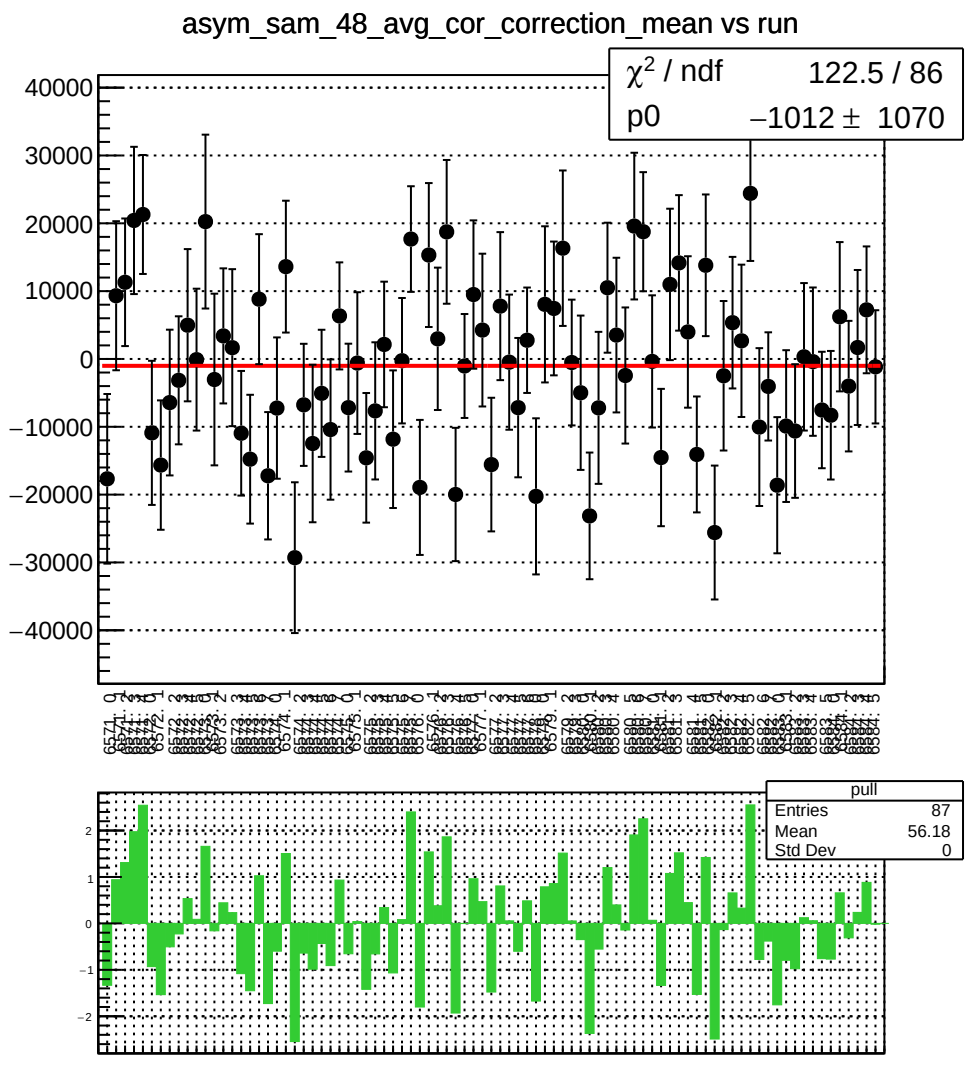
asym_sam_48_avg_reg_correction_rms vs run

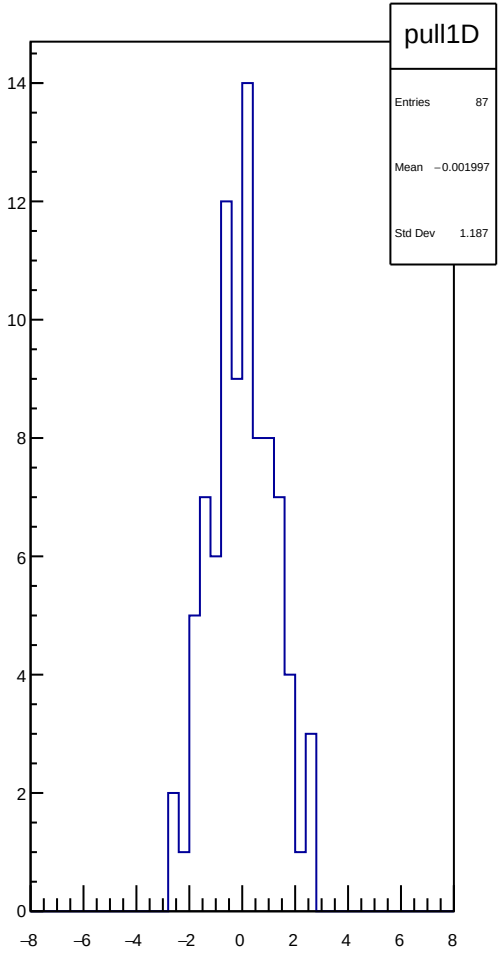


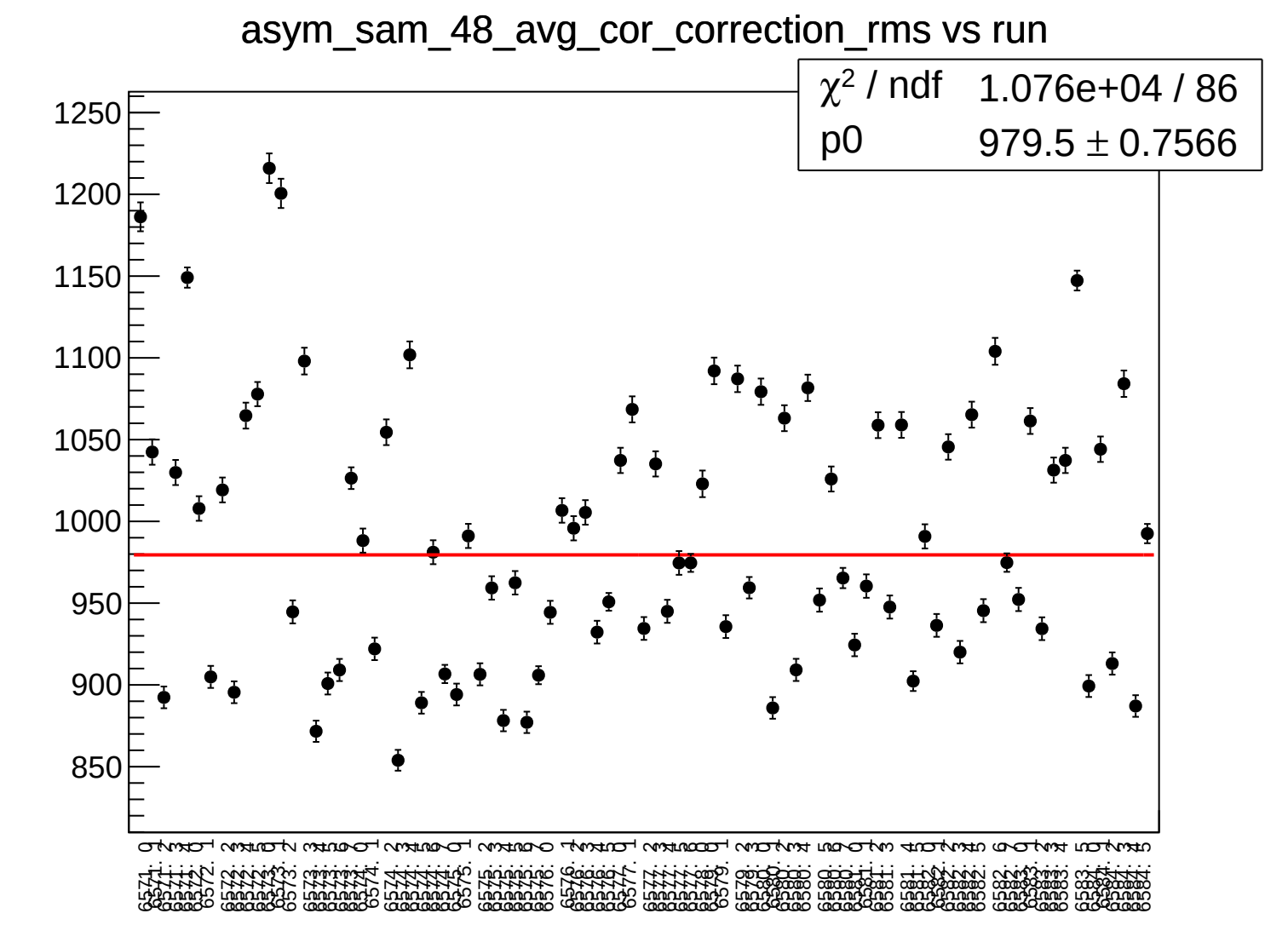

cor_asym_sam_48_avg_mean vs run
χ² / ndf 71.11 / 86
p0 252.1 ± 159.2
pull
Entries 87
Mean 236.5
Std Dev 0

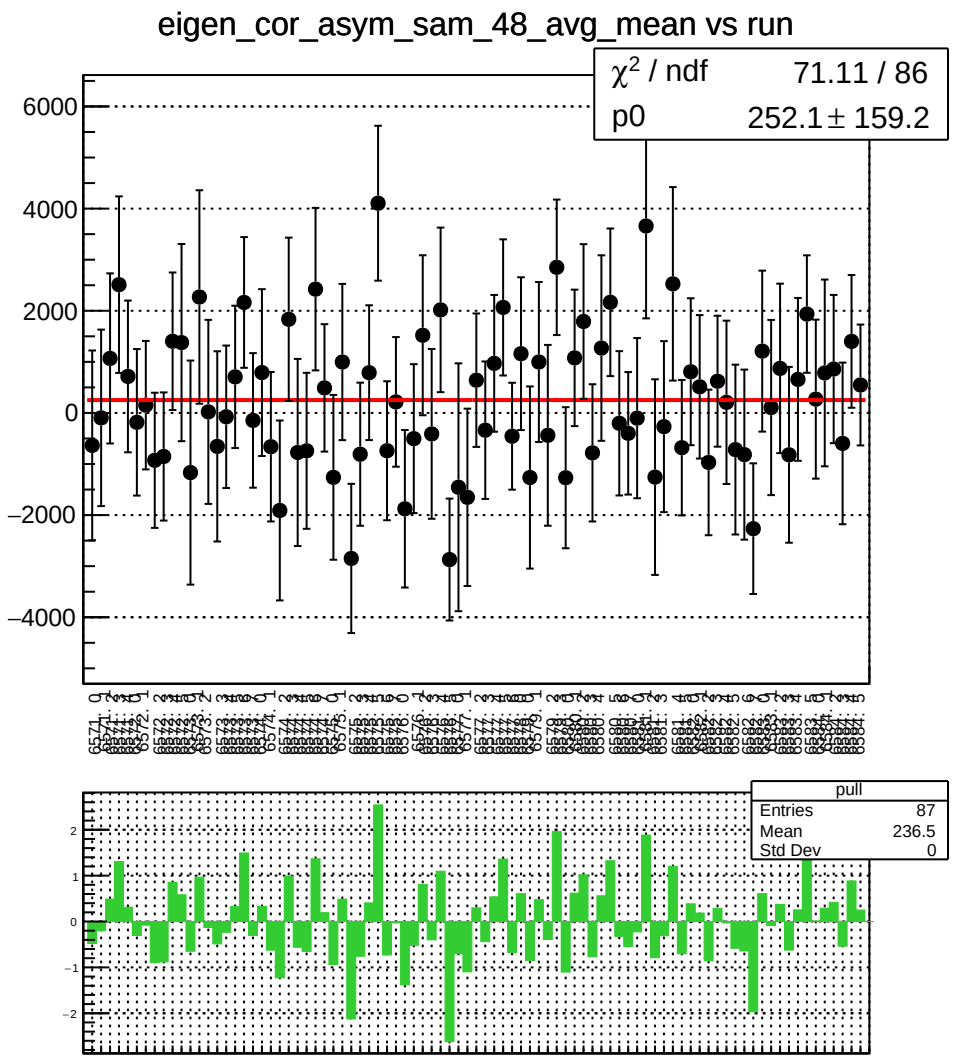

pull1D
Entries 87
Mean 0.004317
Std Dev 0.9041

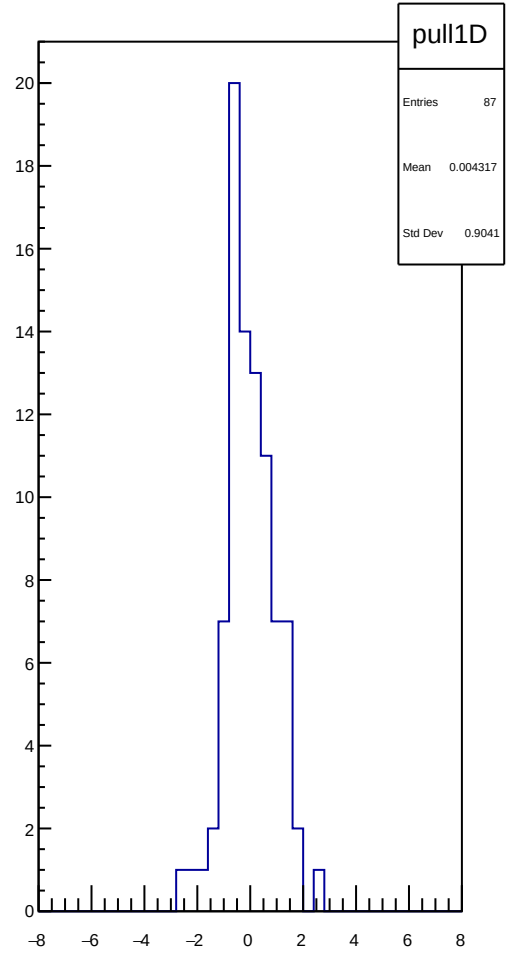

cor_asym_sam_48_avg_rms vs run
χ² / ndf 2.729e+04 / 86
p0 145 ± 0.1125
240
220
200
180
160
140
120

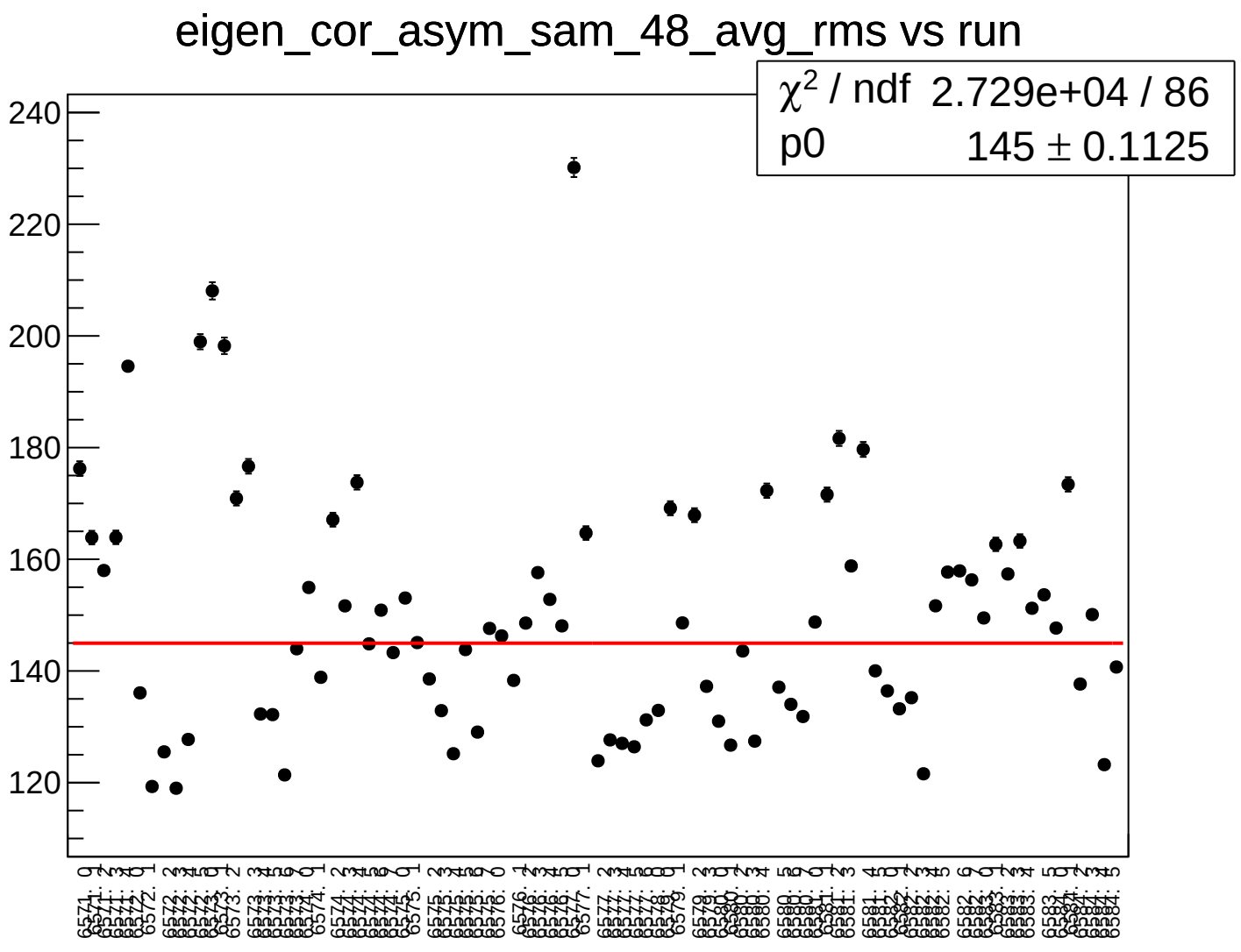

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 122.5 / 86
p0 −1012 ± 1070
pull
Entries 87
Mean 56.18
Std Dev 0

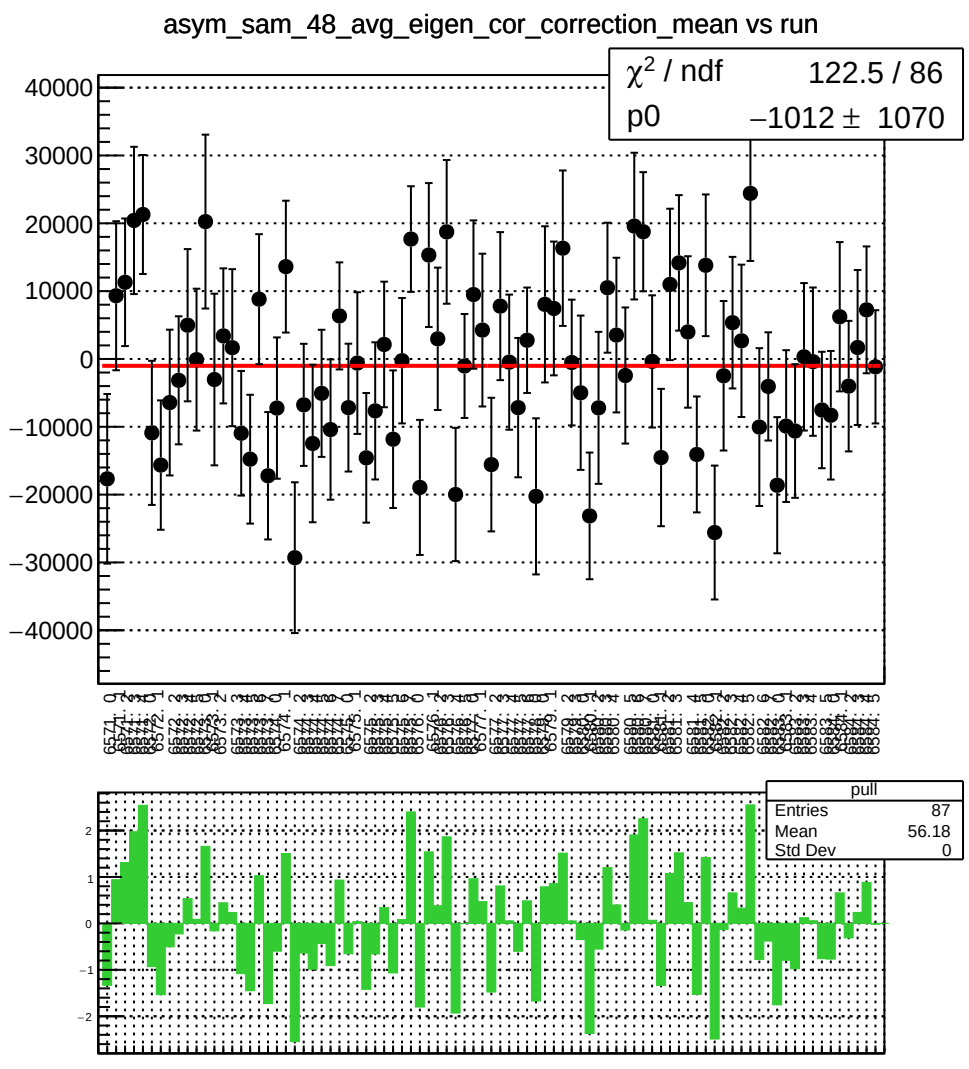

pull1D
Entries 87
Mean −0.001997
Std Dev 1.187

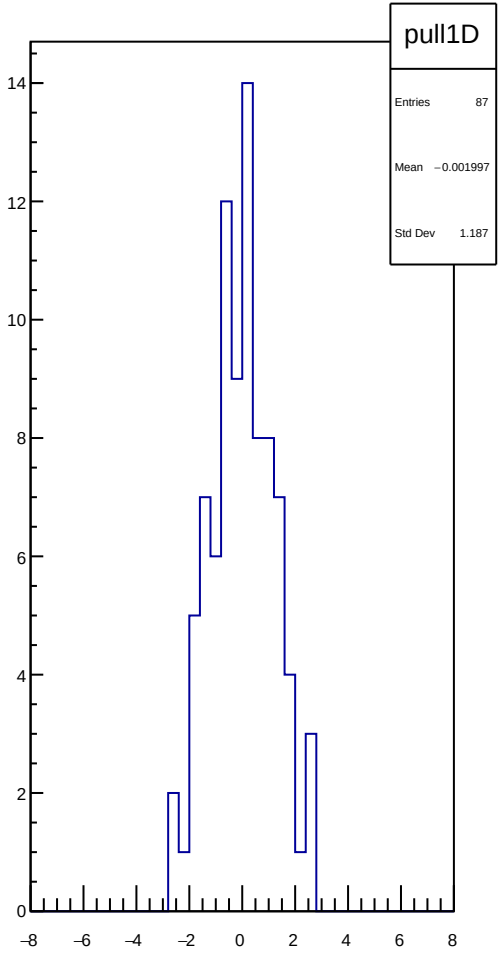

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1.076e+04 / 86
p0 979.5 ± 0.7566
1250
1200
1150
1100
1050
1000
950
900
850

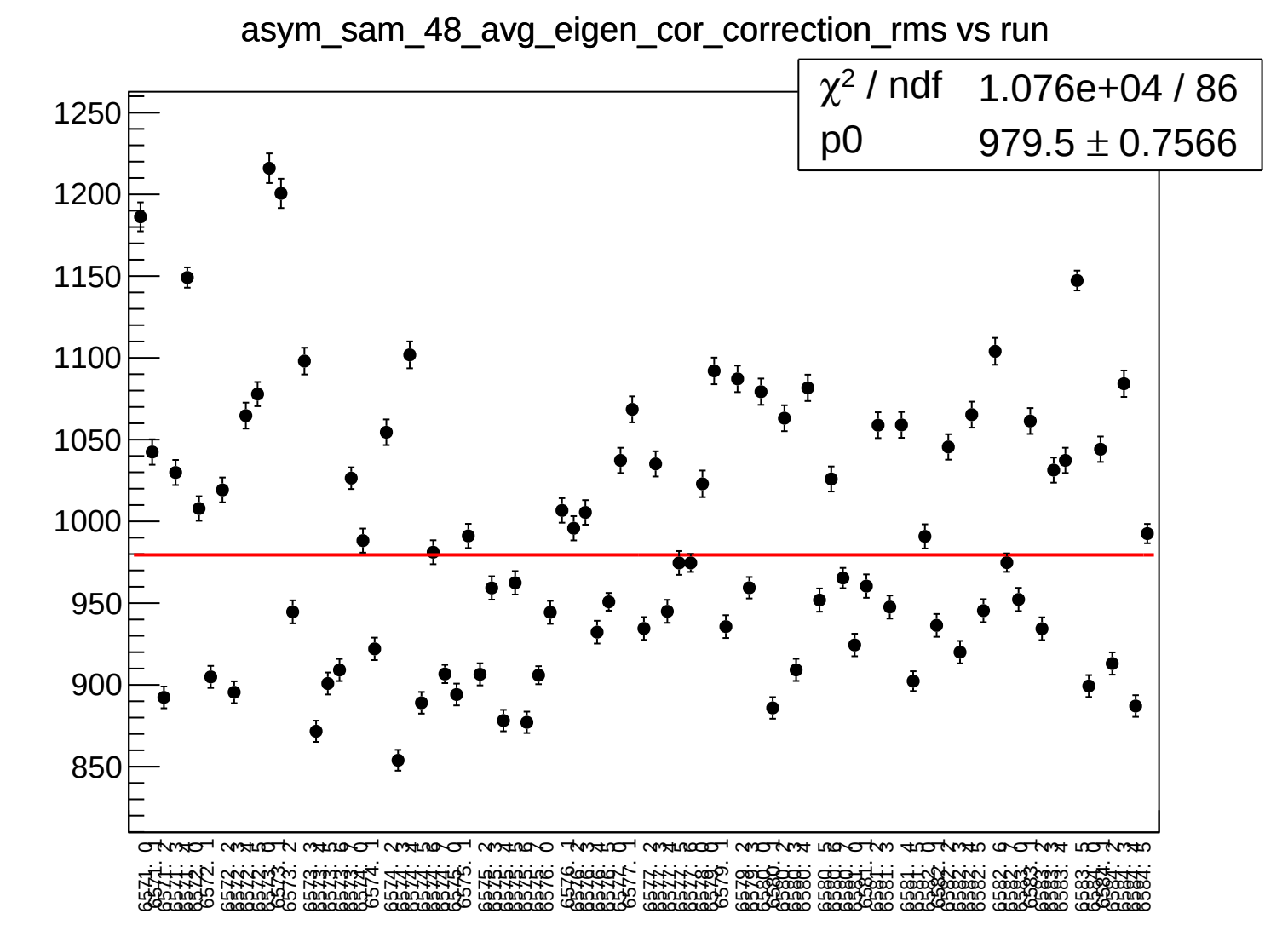

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 71.11 / 86
p0 252.1 ± 159.2
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 236.5
Std Dev 0
2
1
0
−1
−2

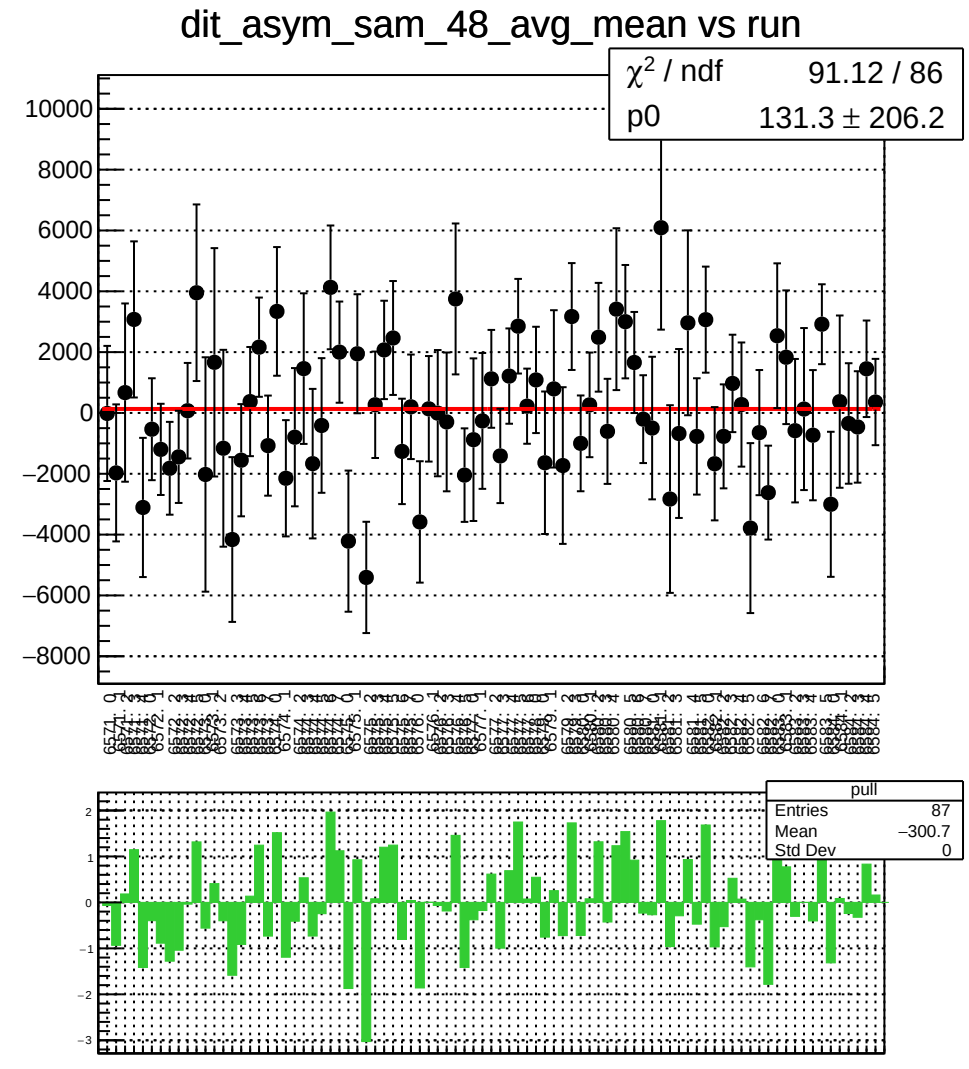

pull1D
Entries 87
Mean 0.004317
Std Dev 0.9041
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

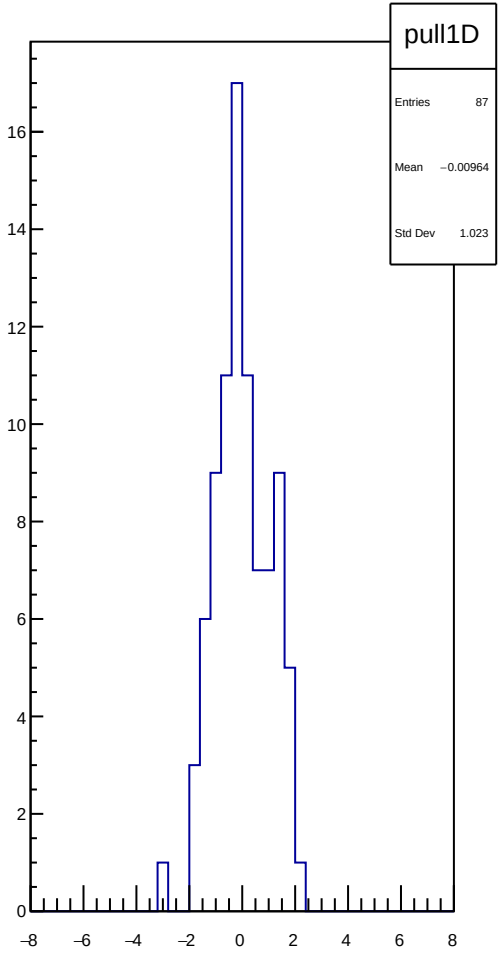

eigen_cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 2.729e+04 / 86
p0 145 ± 0.1125
240
220
200
180
160
140
120

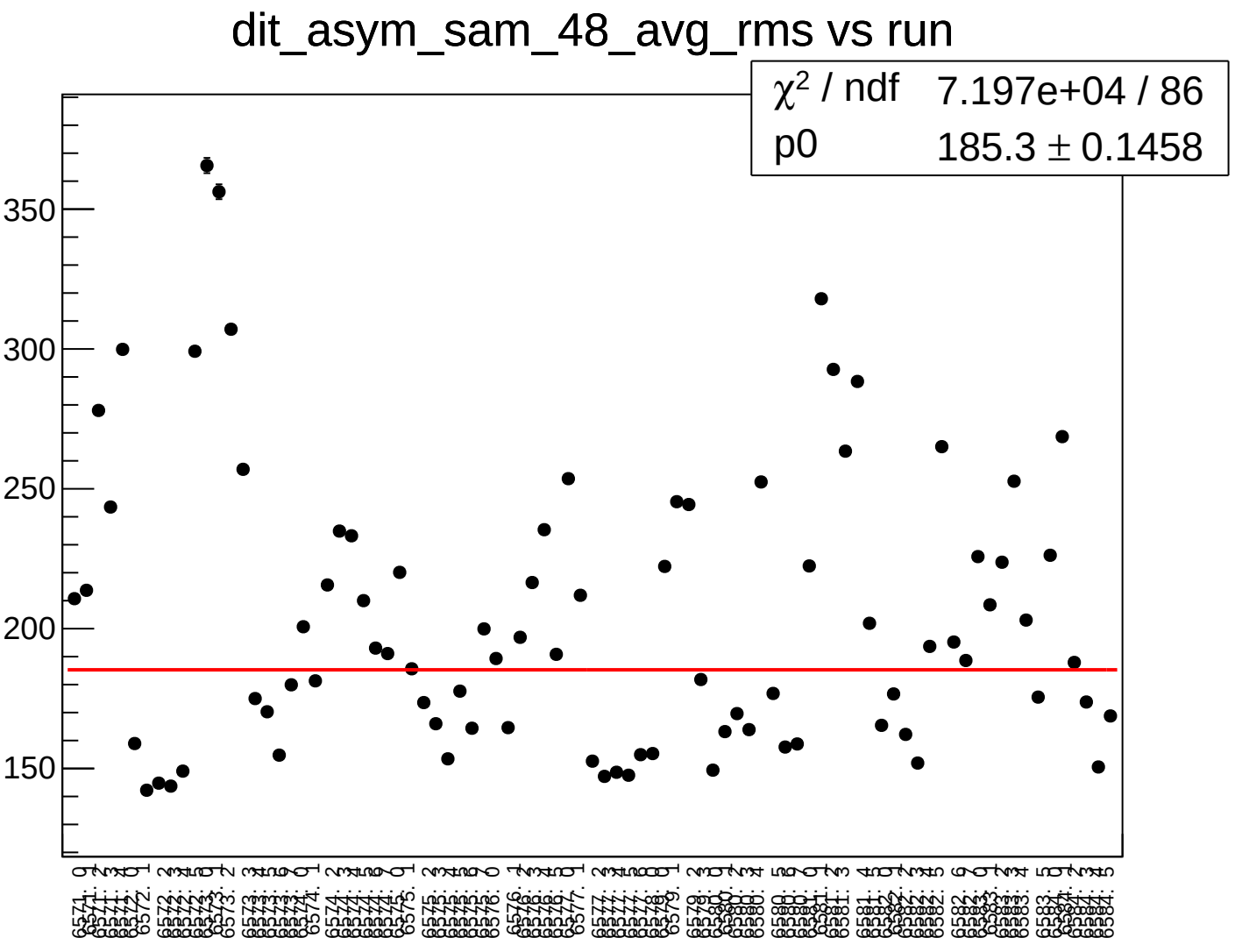

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 122.5 / 86
p0 −1012 ± 1070
pull
Entries 87
Mean 56.18
Std Dev 0

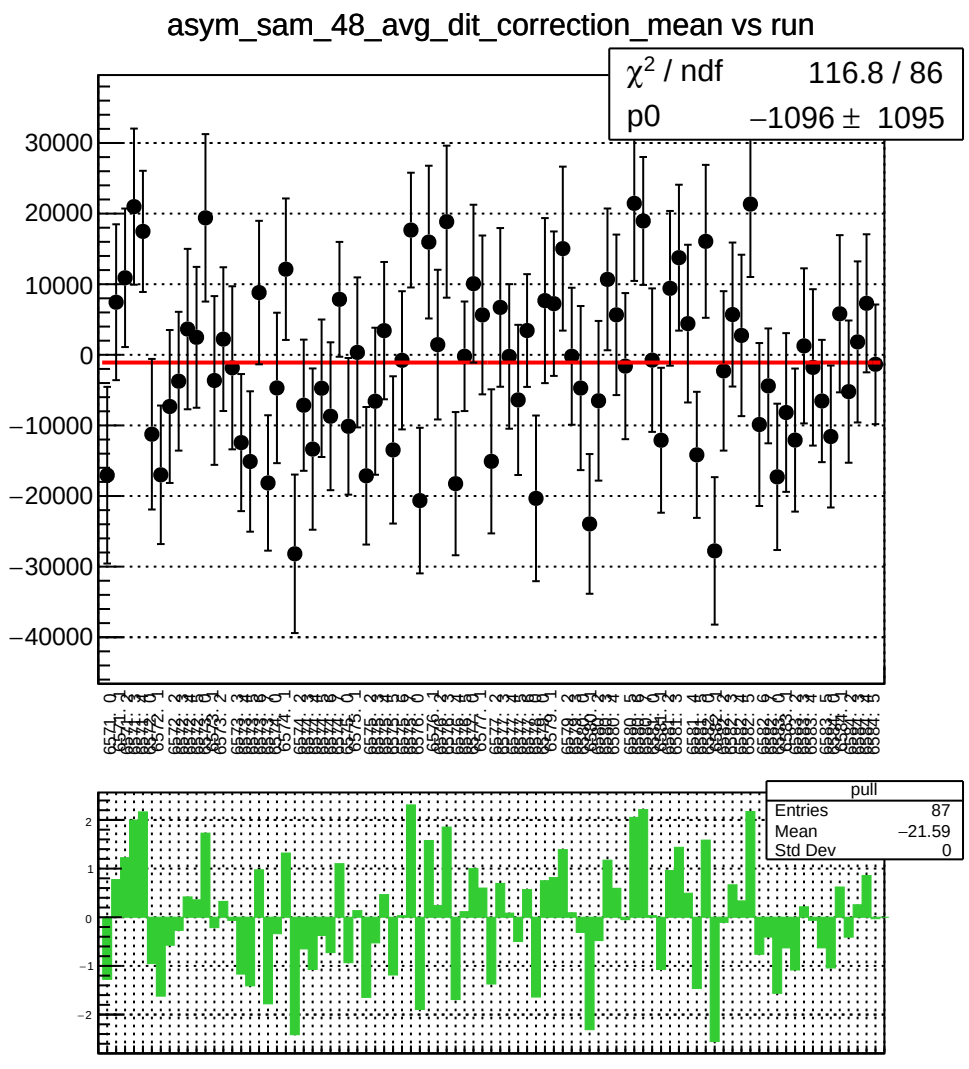

pull1D
Entries 87
Mean −0.001997
Std Dev 1.187

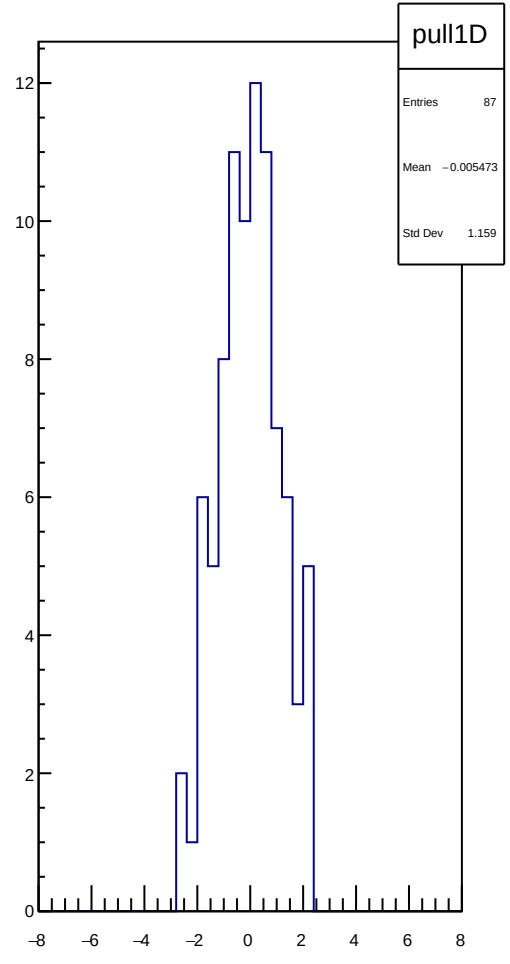

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.076e+04 / 86
p0 979.5 ± 0.7566
1250
1200
1150
1100
1050
1000
950
900
850

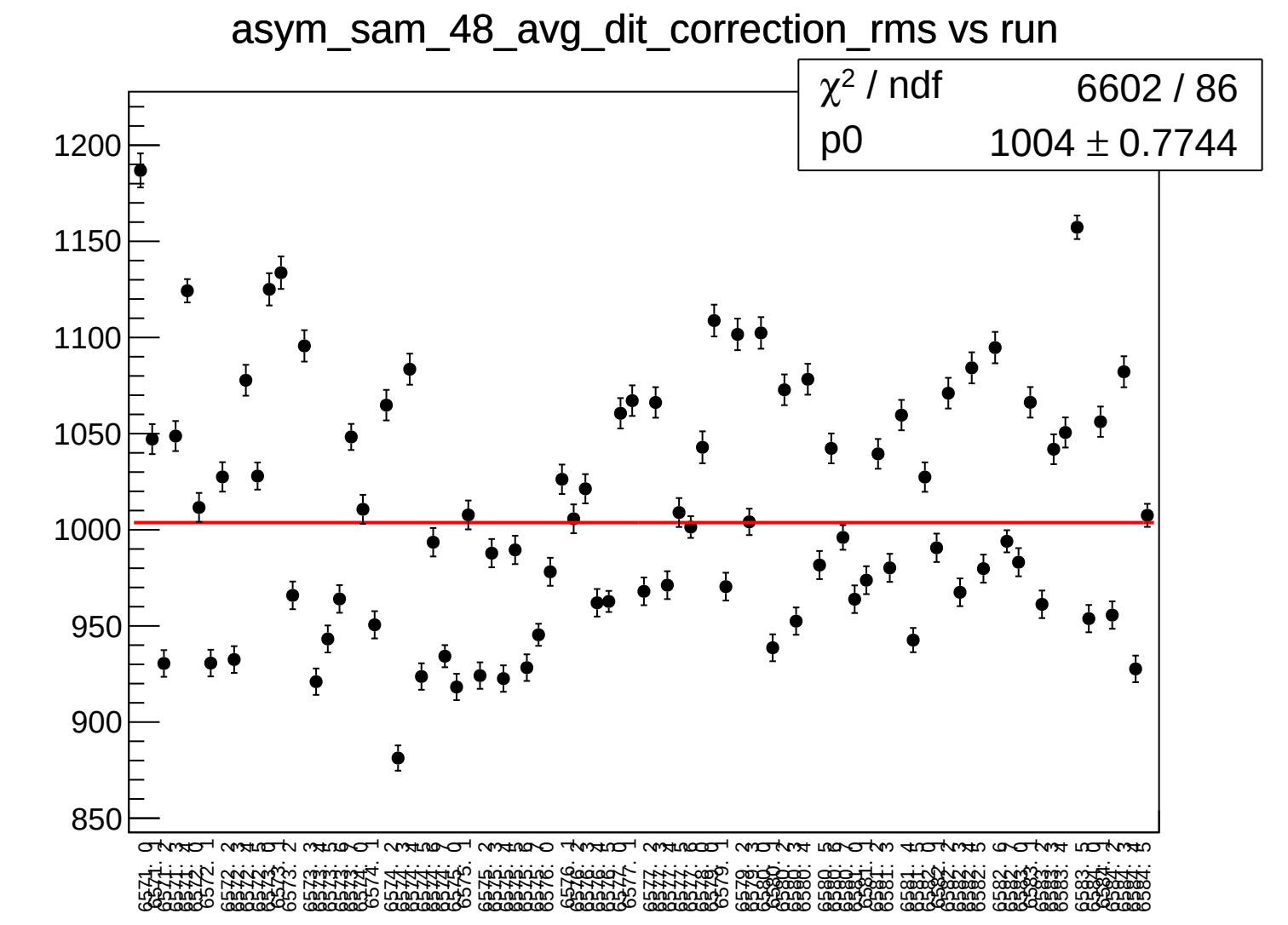

dit_asym_sam_48_avg_mean vs run
χ^2 / ndf 91.12 / 86
p0 131.3 ± 206.2
pull
Entries 87
Mean −300.7
Std Dev 0

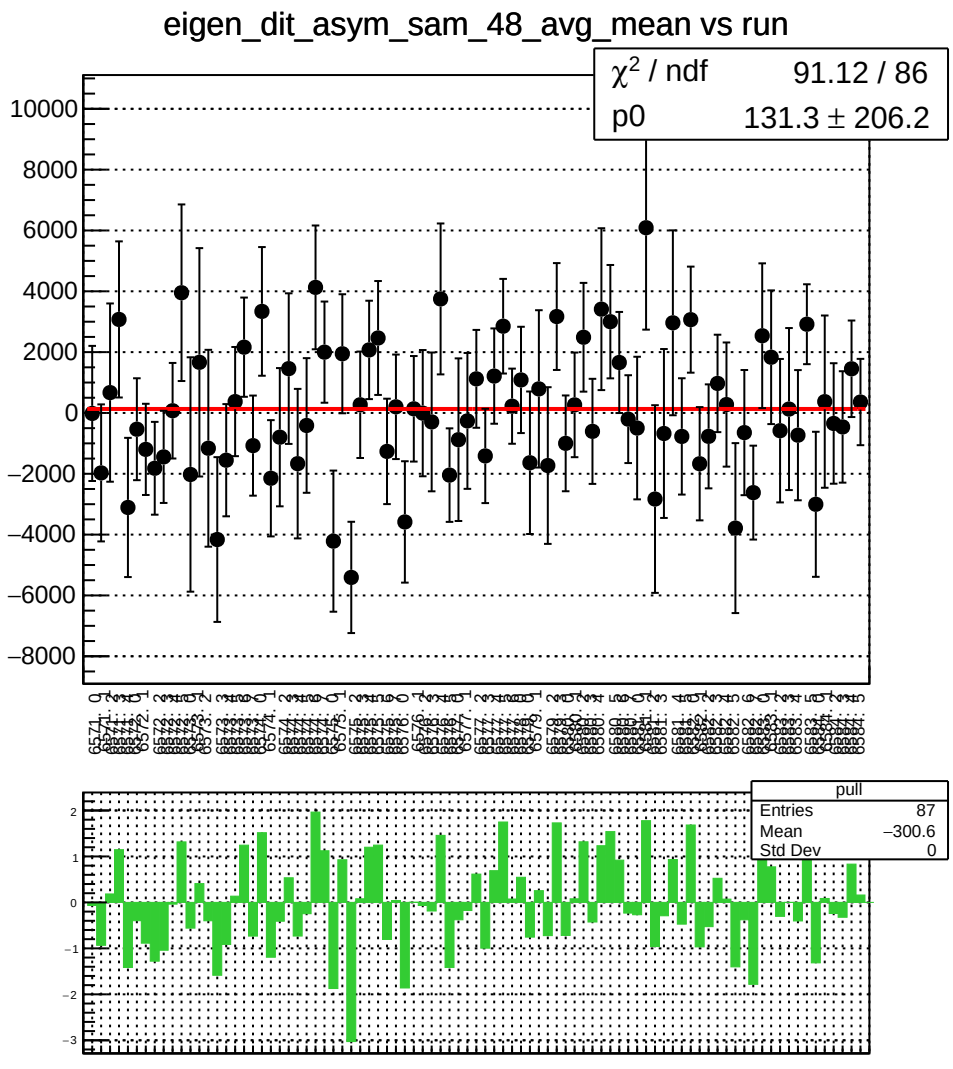

pull1D
Entries 87
Mean −0.00964
Std Dev 1.023

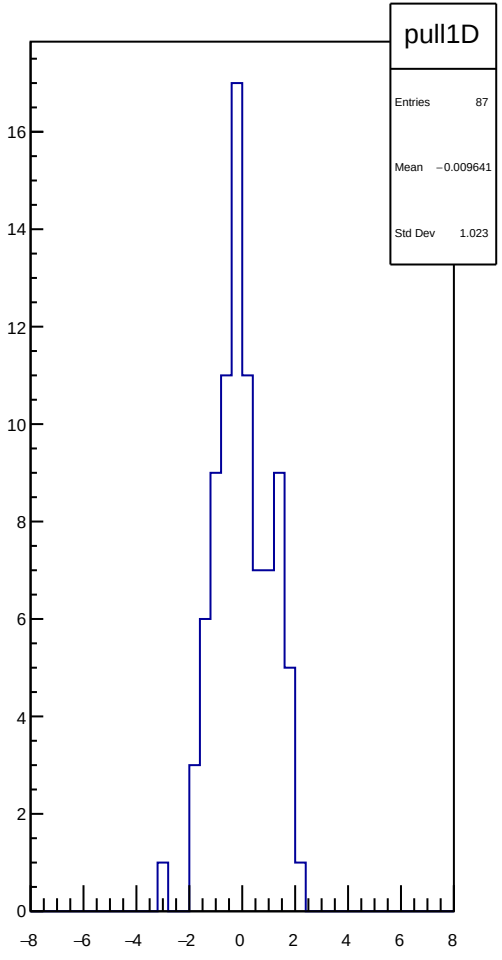

dit_asym_sam_48_avg_rms vs run
χ² / ndf 7.197e+04 / 86
p0 185.3 ± 0.1458
350
300
250
200
150

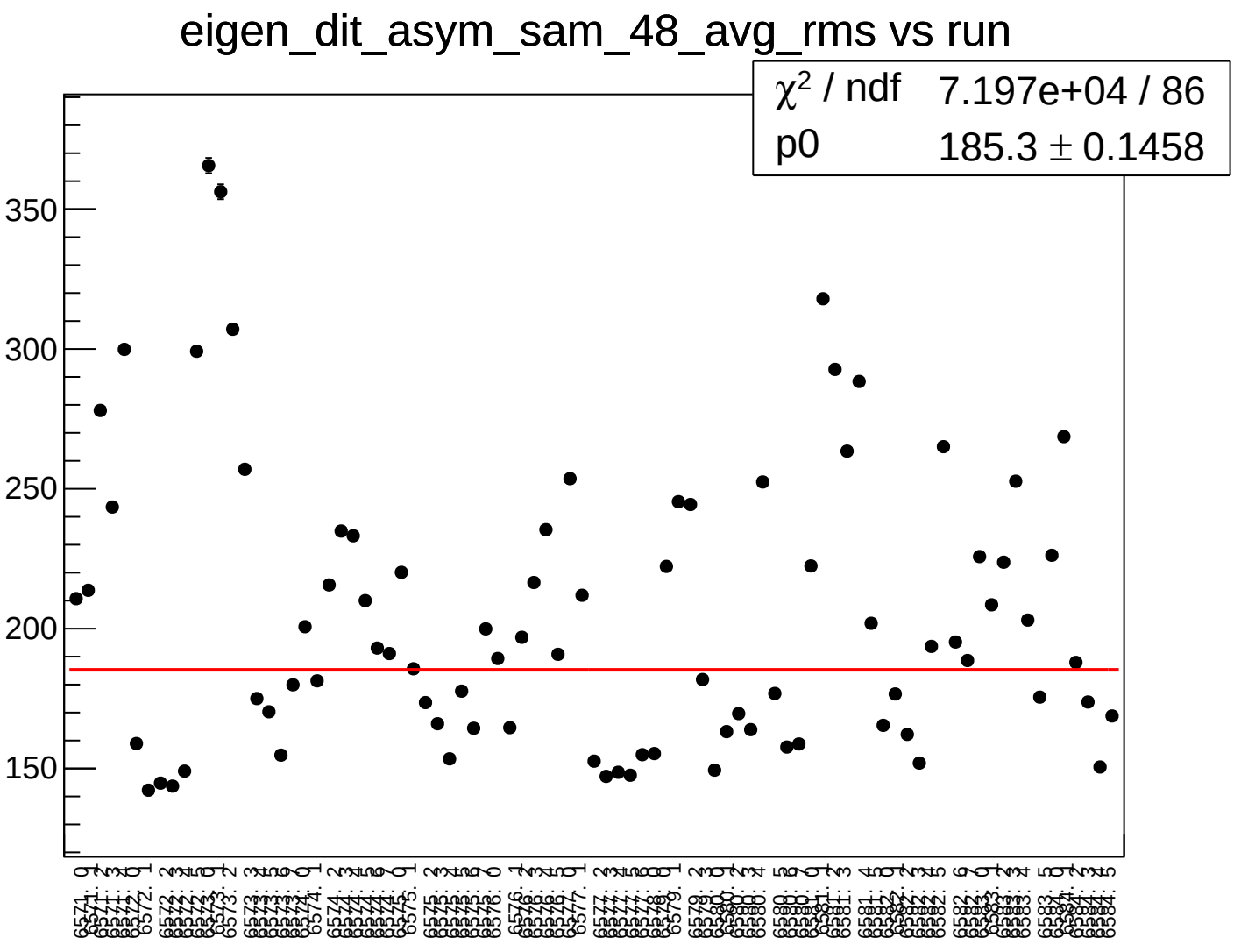

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 116.8 / 86
p0 −1096 ± 1095
pull
Entries 87
Mean −21.59
Std Dev 0

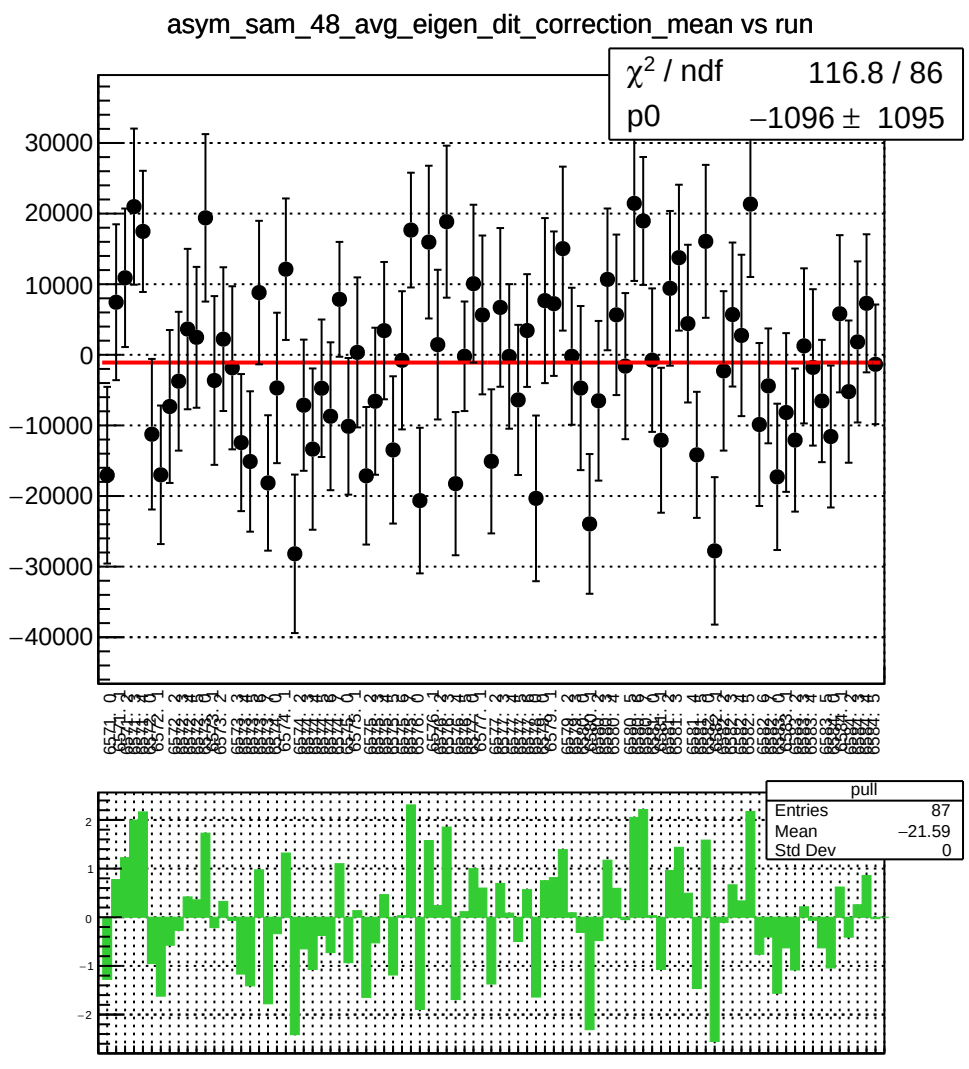

pull1D
Entries 87
Mean −0.005473
Std Dev 1.159

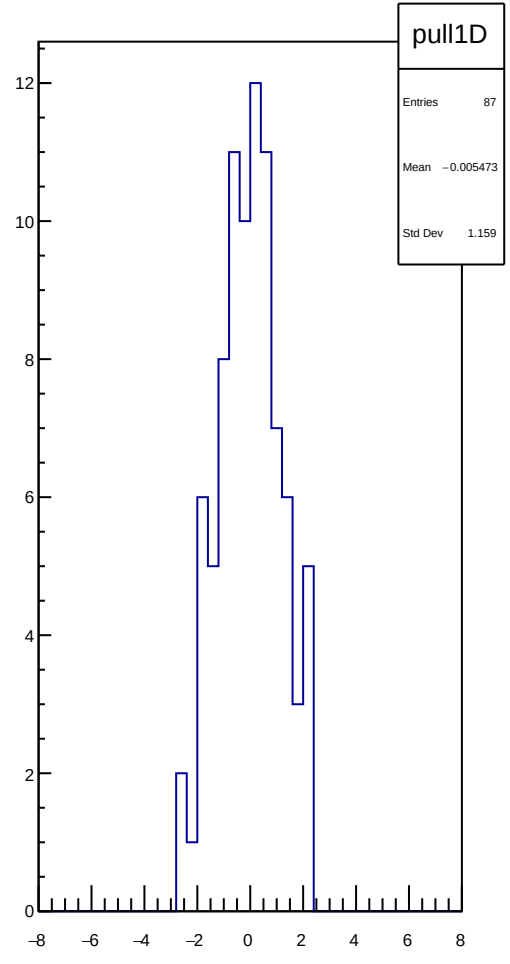

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 6602 / 86
p0 1004 ± 0.7744
1200
1150
1100
1050
1000
950
900
850

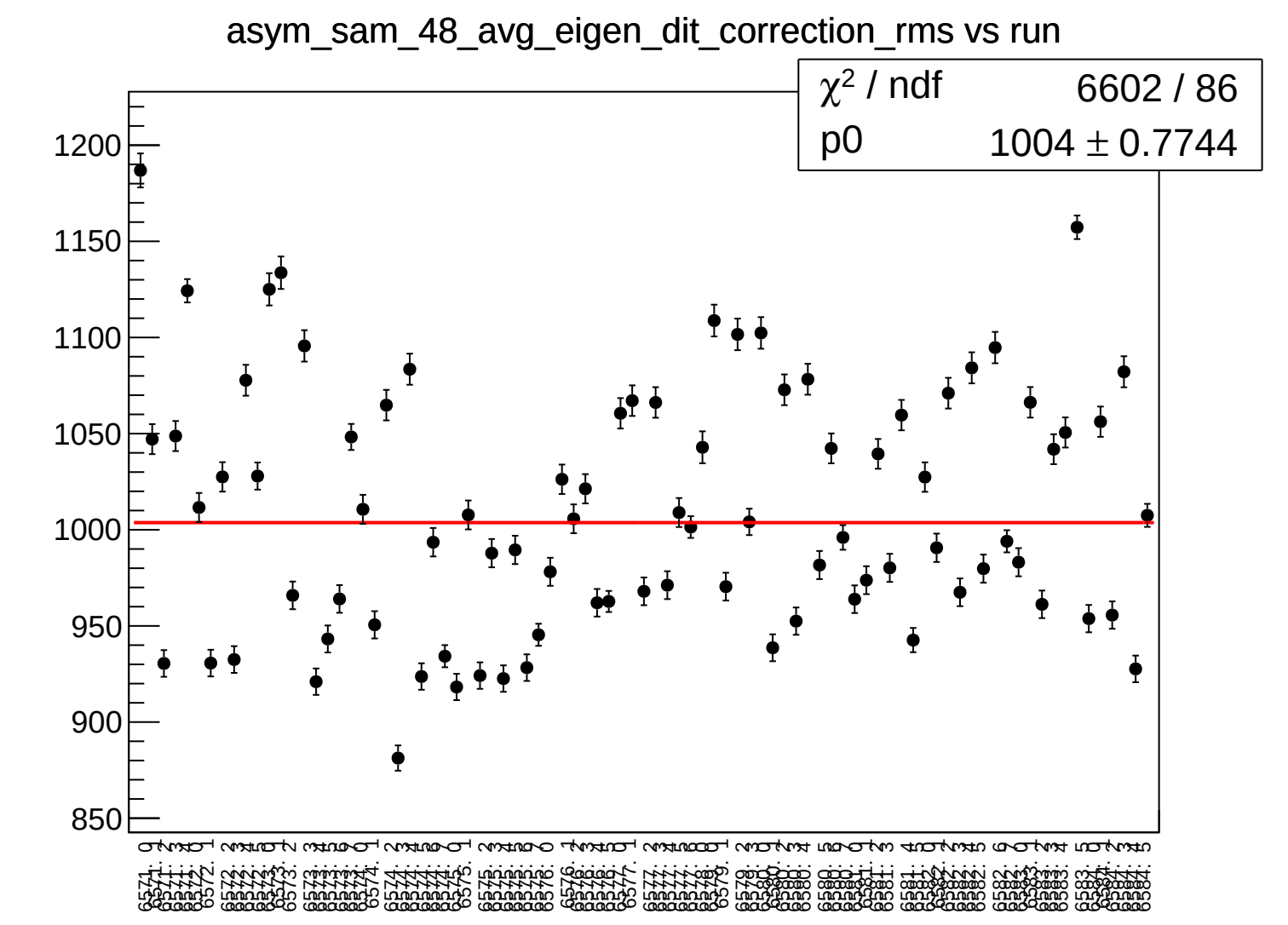

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 91.12 / 86
p0 131.3 ± 206.2
pull
Entries 87
Mean −300.6
Std Dev 0

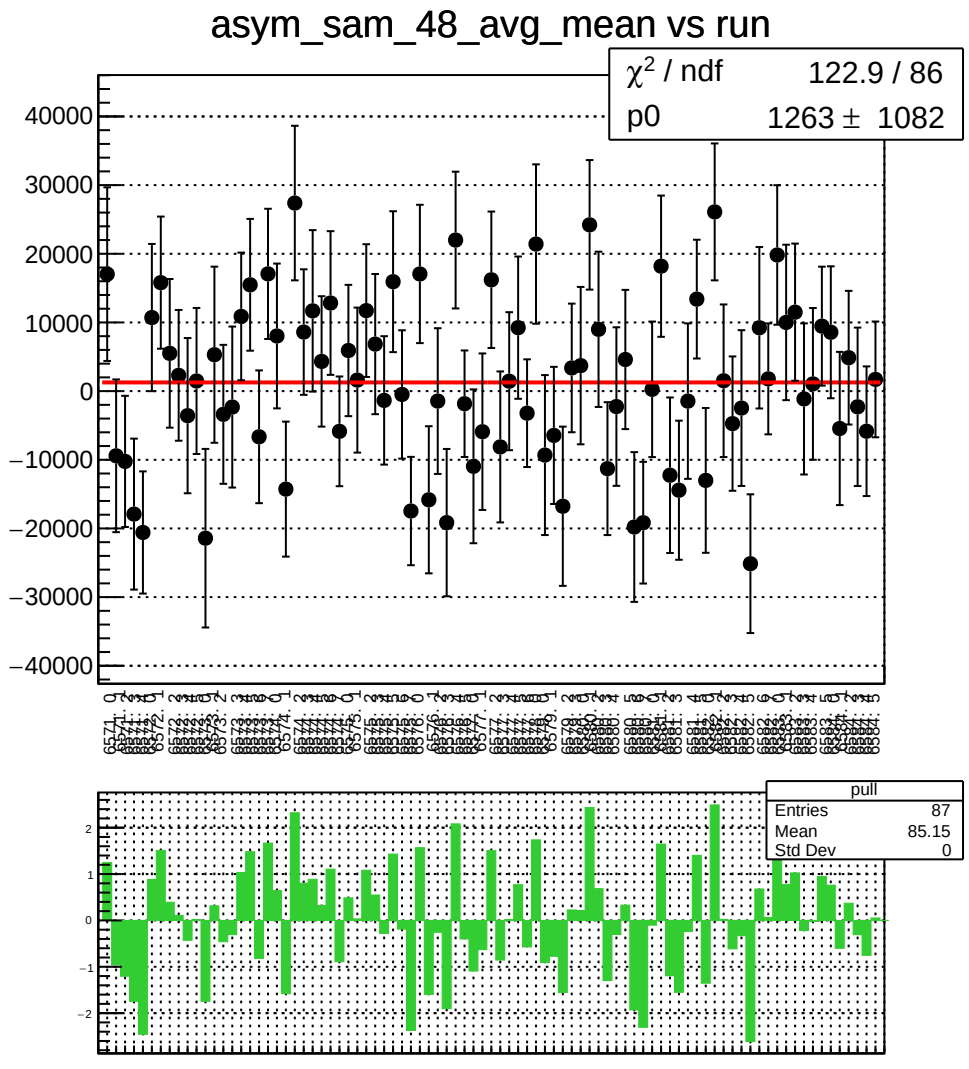

pull1D
Entries 87
Mean −0.009641
Std Dev 1.023

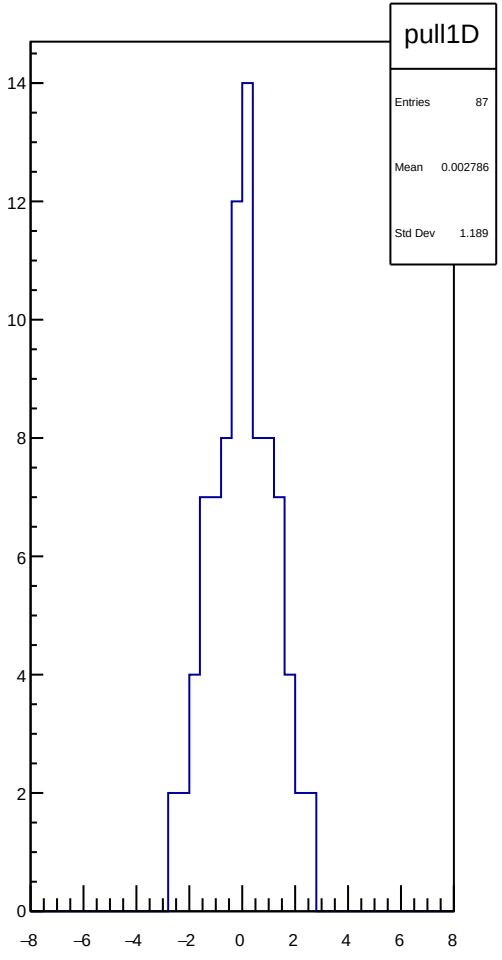

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 7.197e+04 / 86
p0 185.3 ± 0.1458
350
300
250
200
150

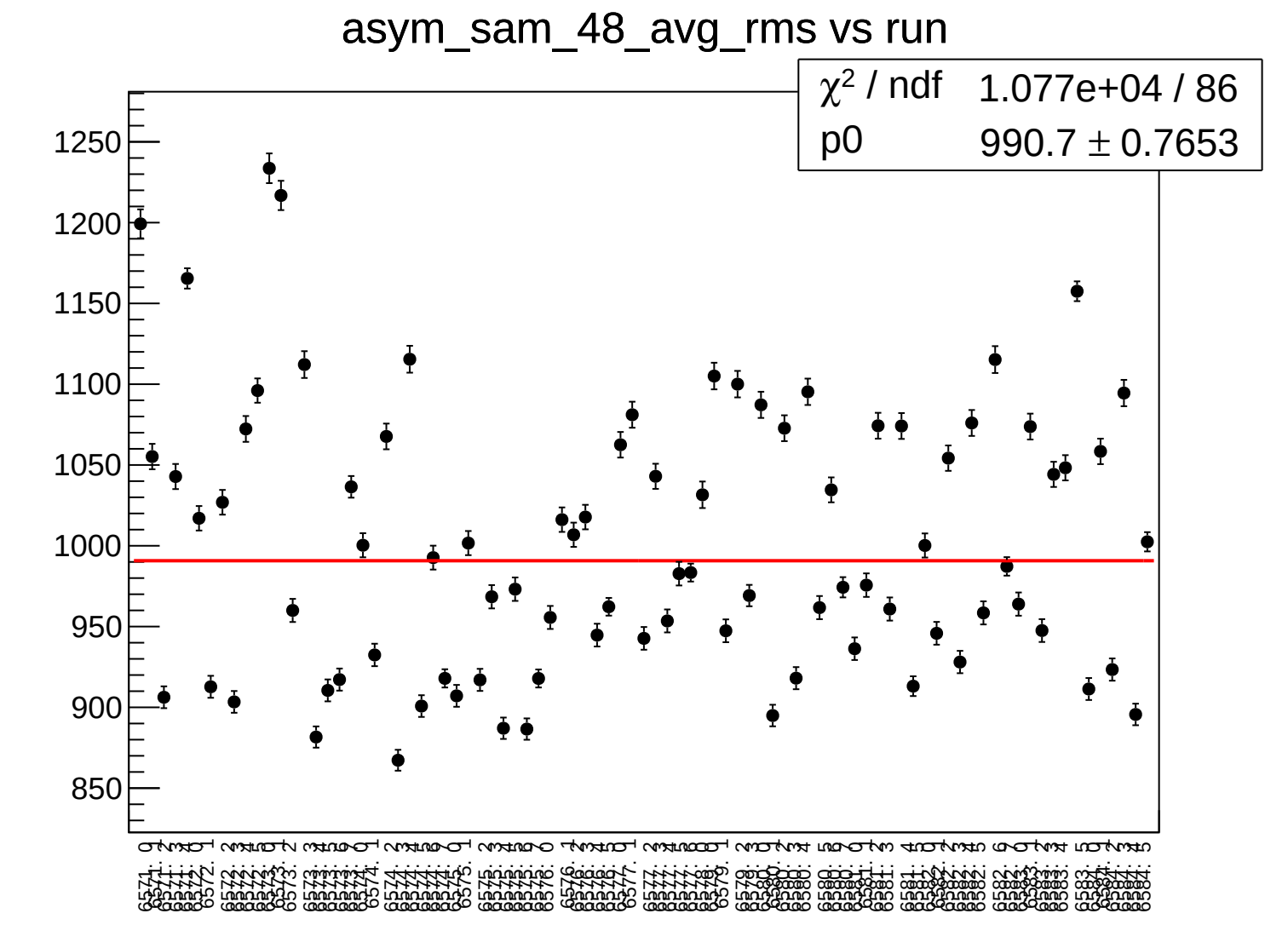

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 116.8 / 86
p0 −1096 ± 1095
pull
Entries 87
Mean −21.59
Std Dev 0

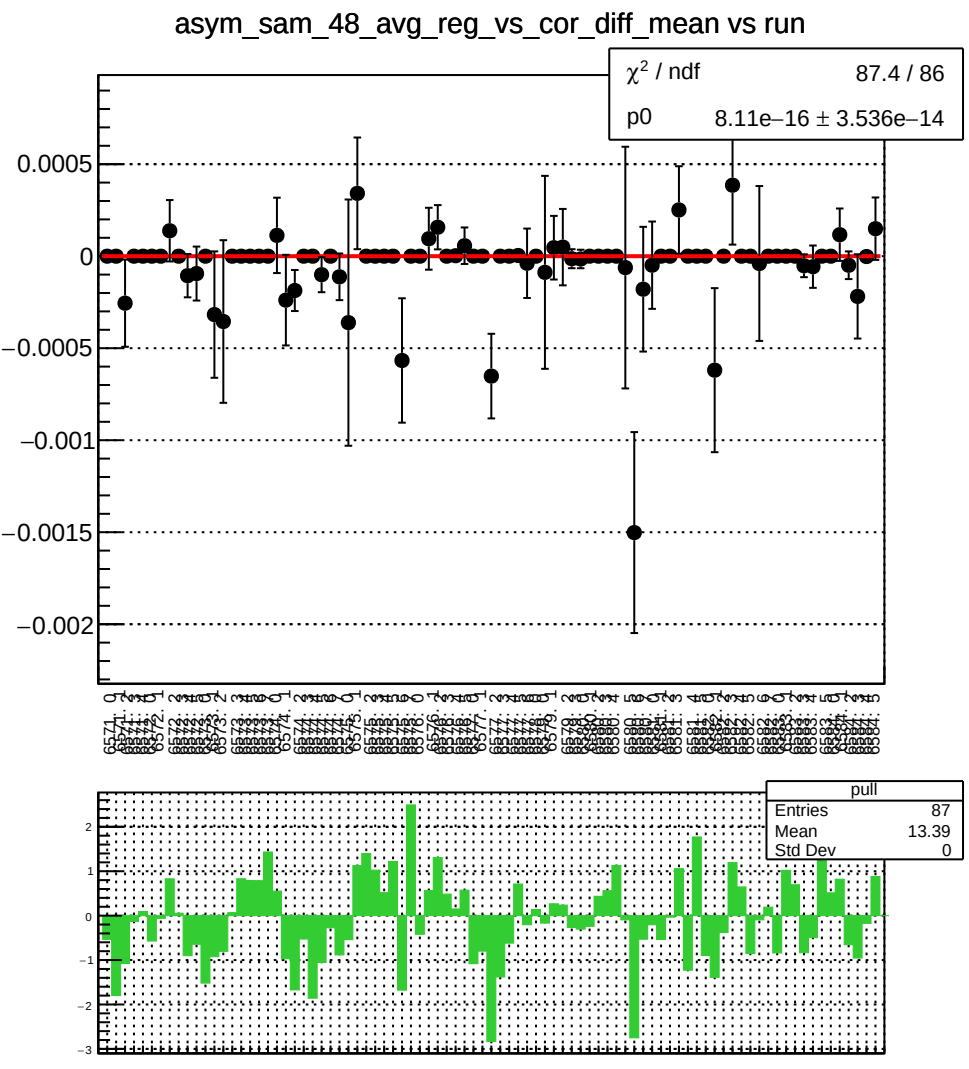

pull1D
Entries 87
Mean −0.005473
Std Dev 1.159

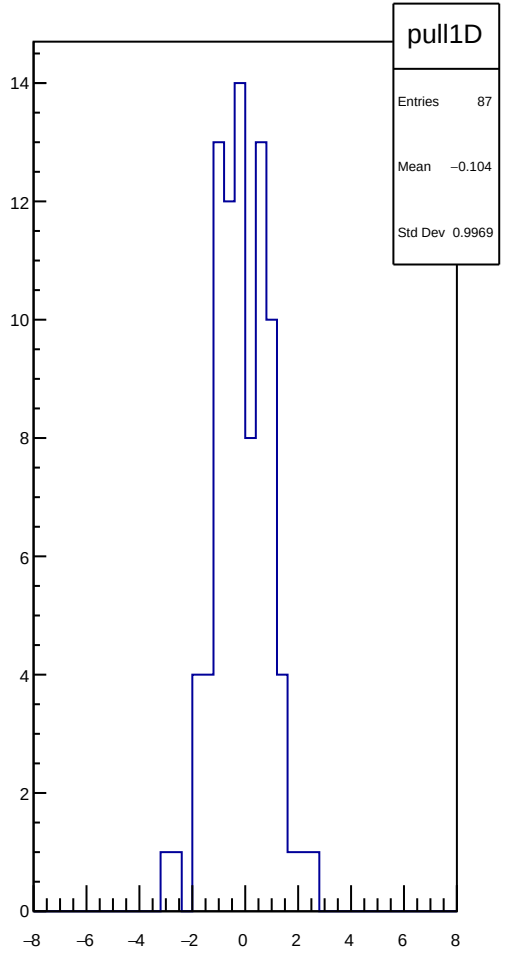

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 6602 / 86
p0 1004 ± 0.7744
1200
1150
1100
1050
1000
950
900
850

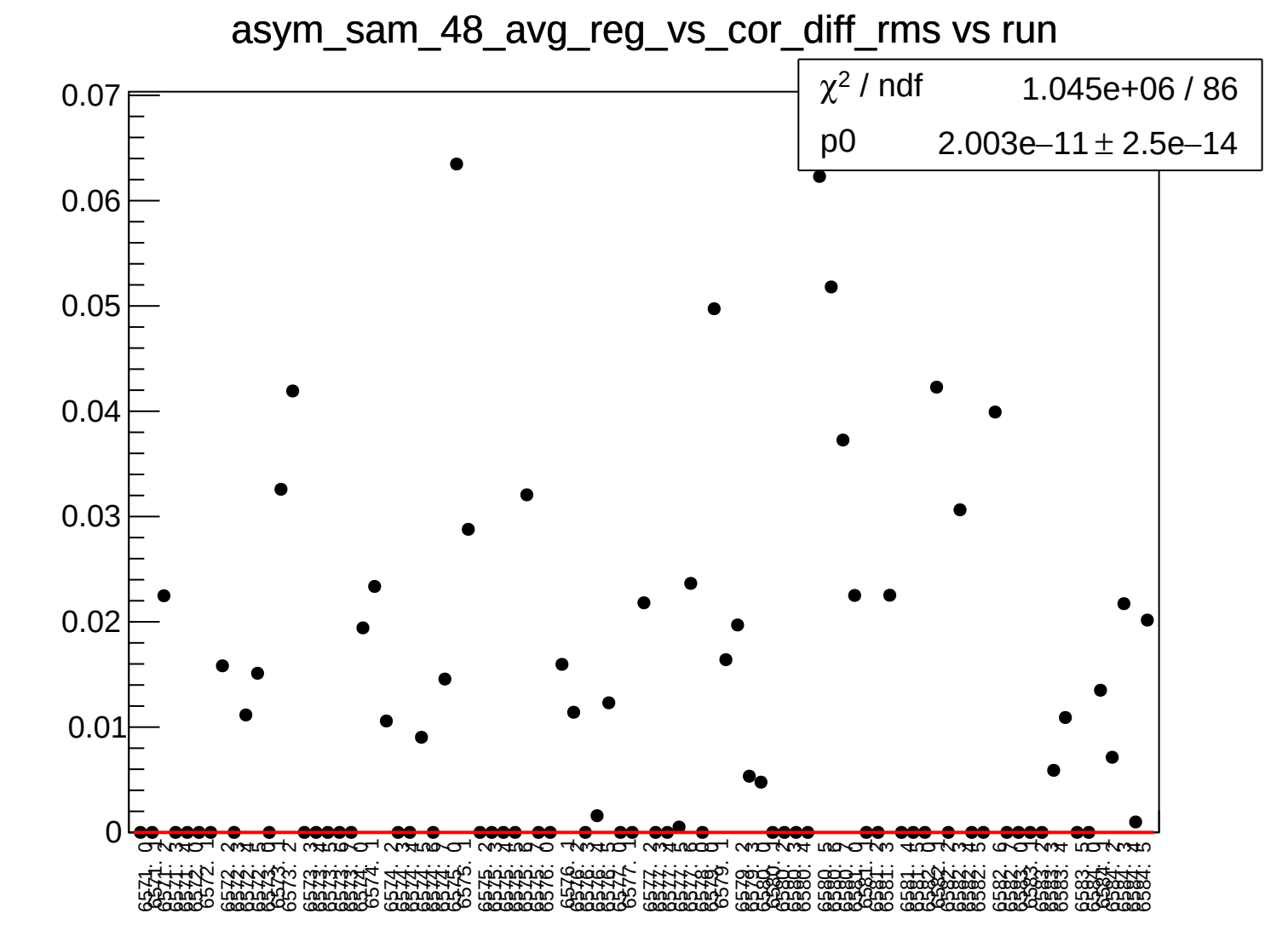

asym_sam_48_avg_mean vs run
χ² / ndf 122.9 / 86
p0 1263 ± 1082
pull
Entries 87
Mean 85.15
Std Dev 0

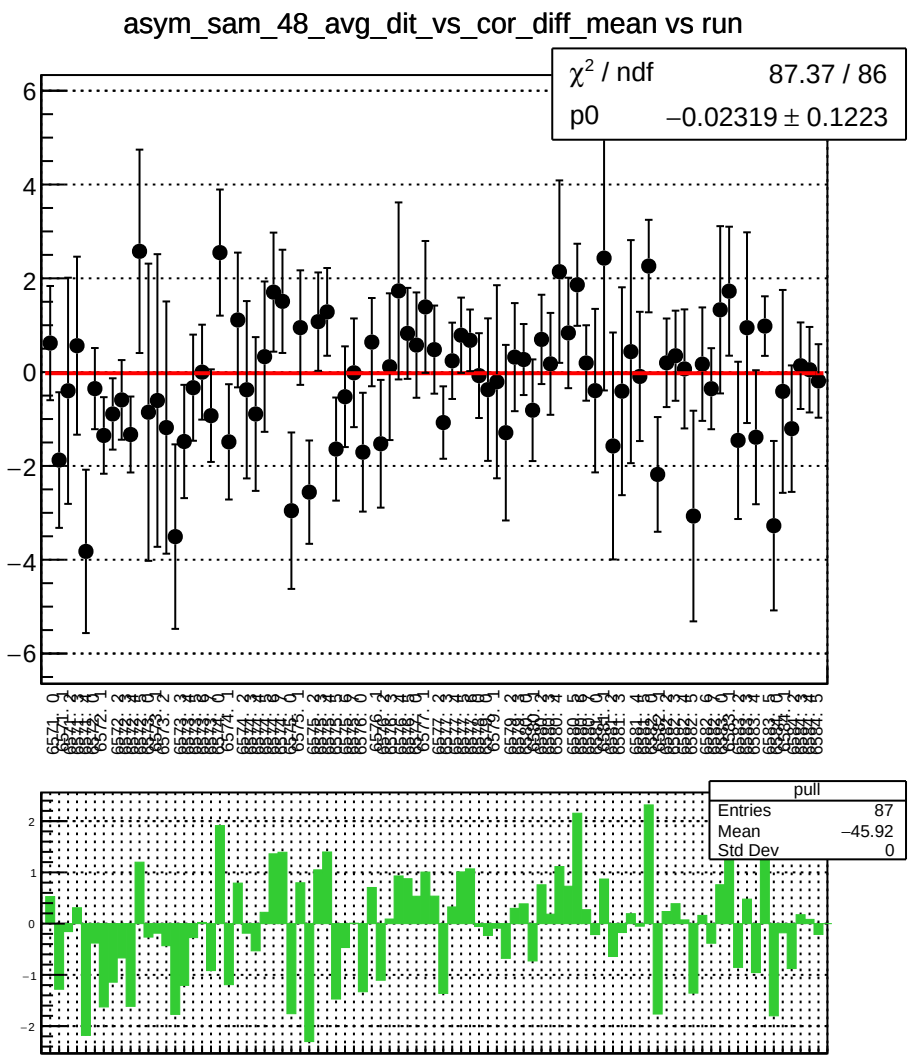

pull1D
Entries 87
Mean 0.002786
Std Dev 1.189

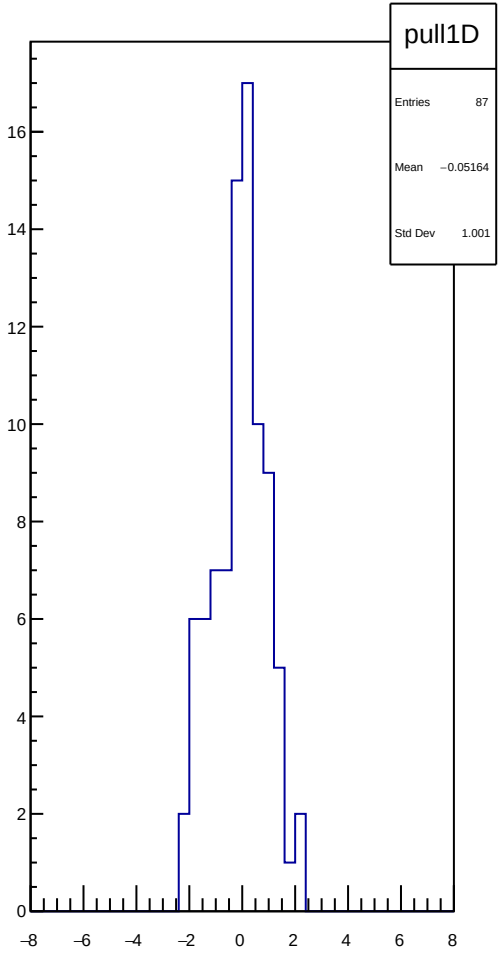

asym_sam_48_avg_rms vs run
χ² / ndf 1.077e+04 / 86
p0 990.7 ± 0.7653
1250
1200
1150
1100
1050
1000
950
900
850

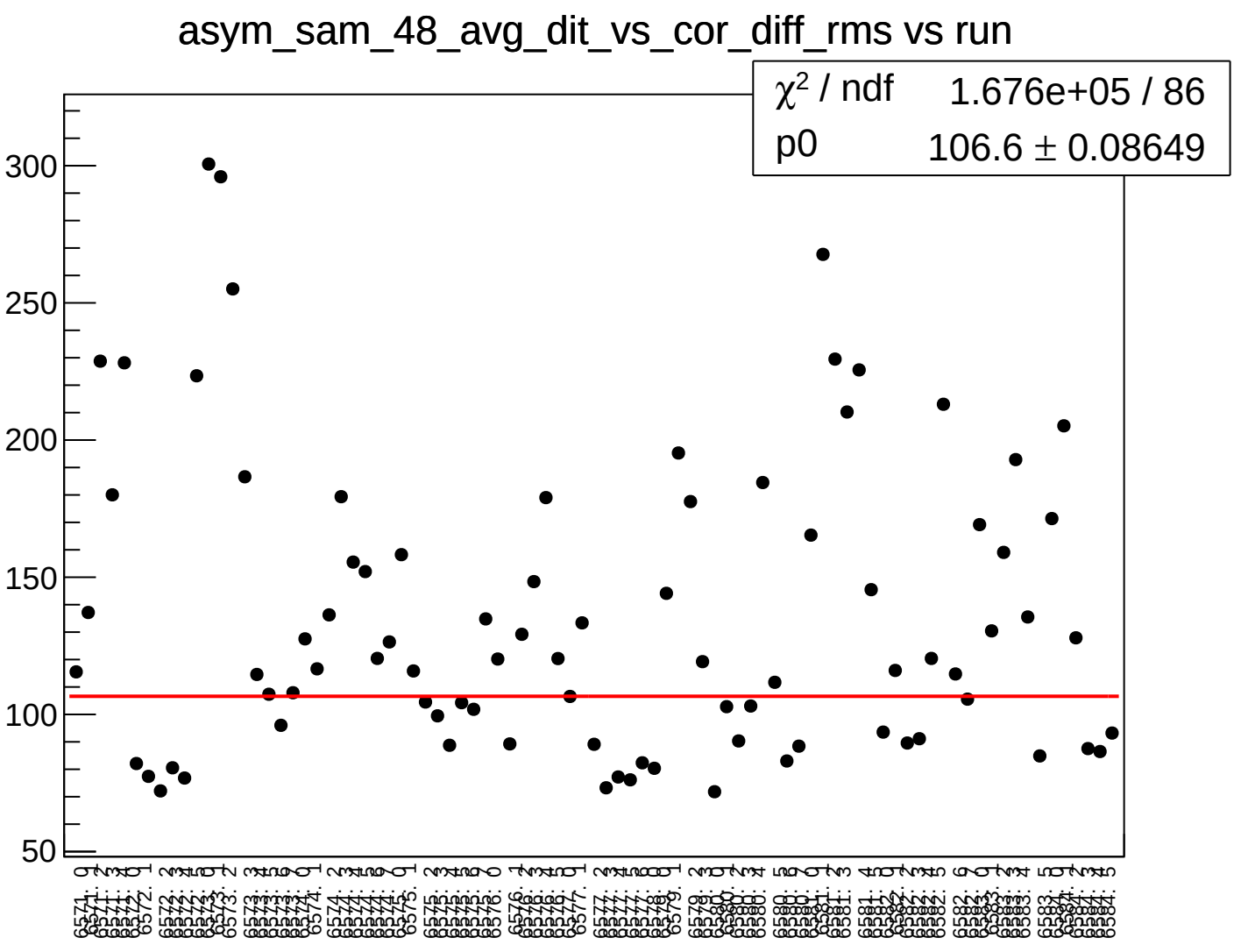

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.4 / 86
p0 8.11e−16 ± 3.536e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 87
Mean 13.39
Std Dev 0
2
1
0
−1
−2
−3

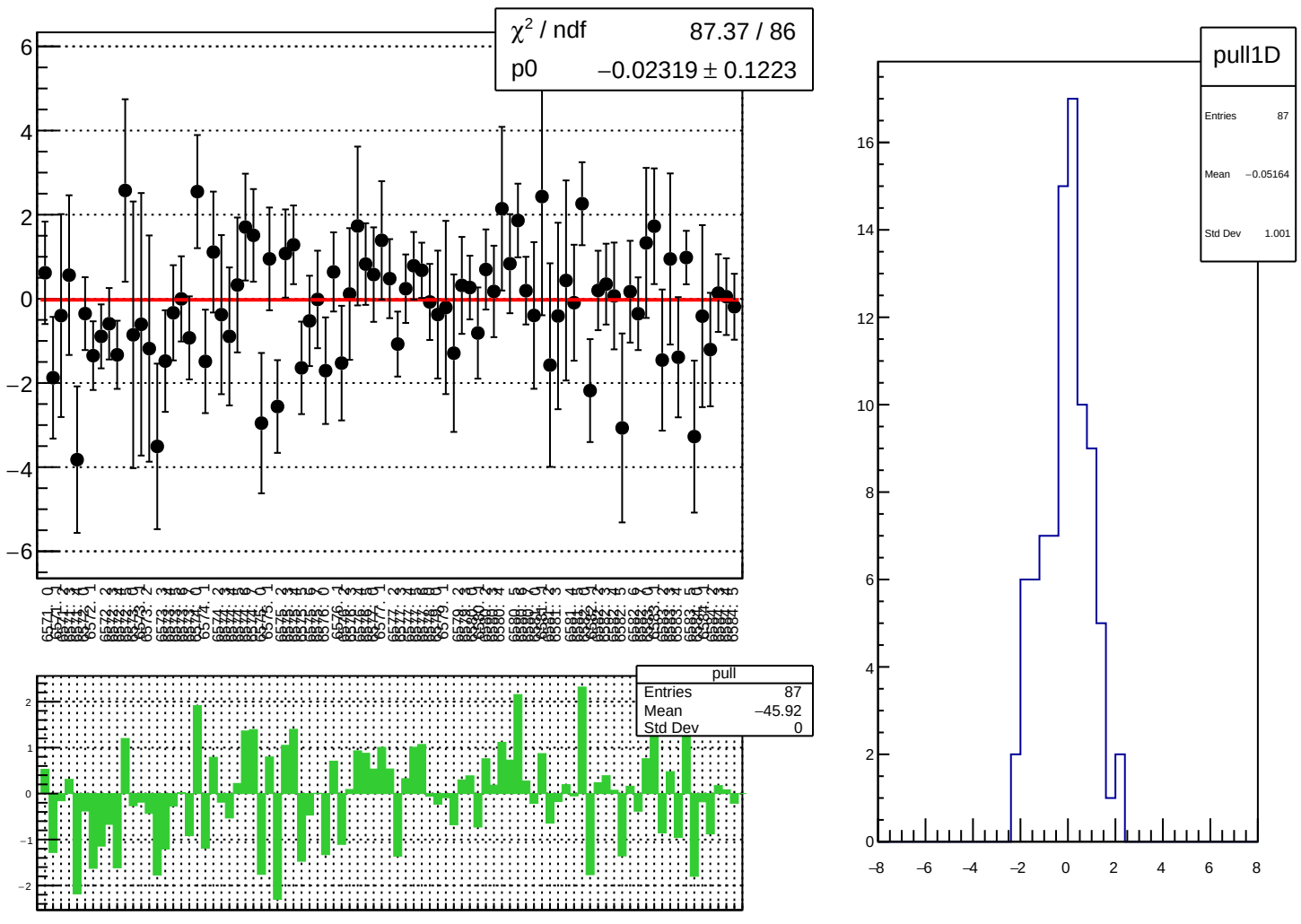

pull1D
Entries 87
Mean −0.104
Std Dev 0.9969
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

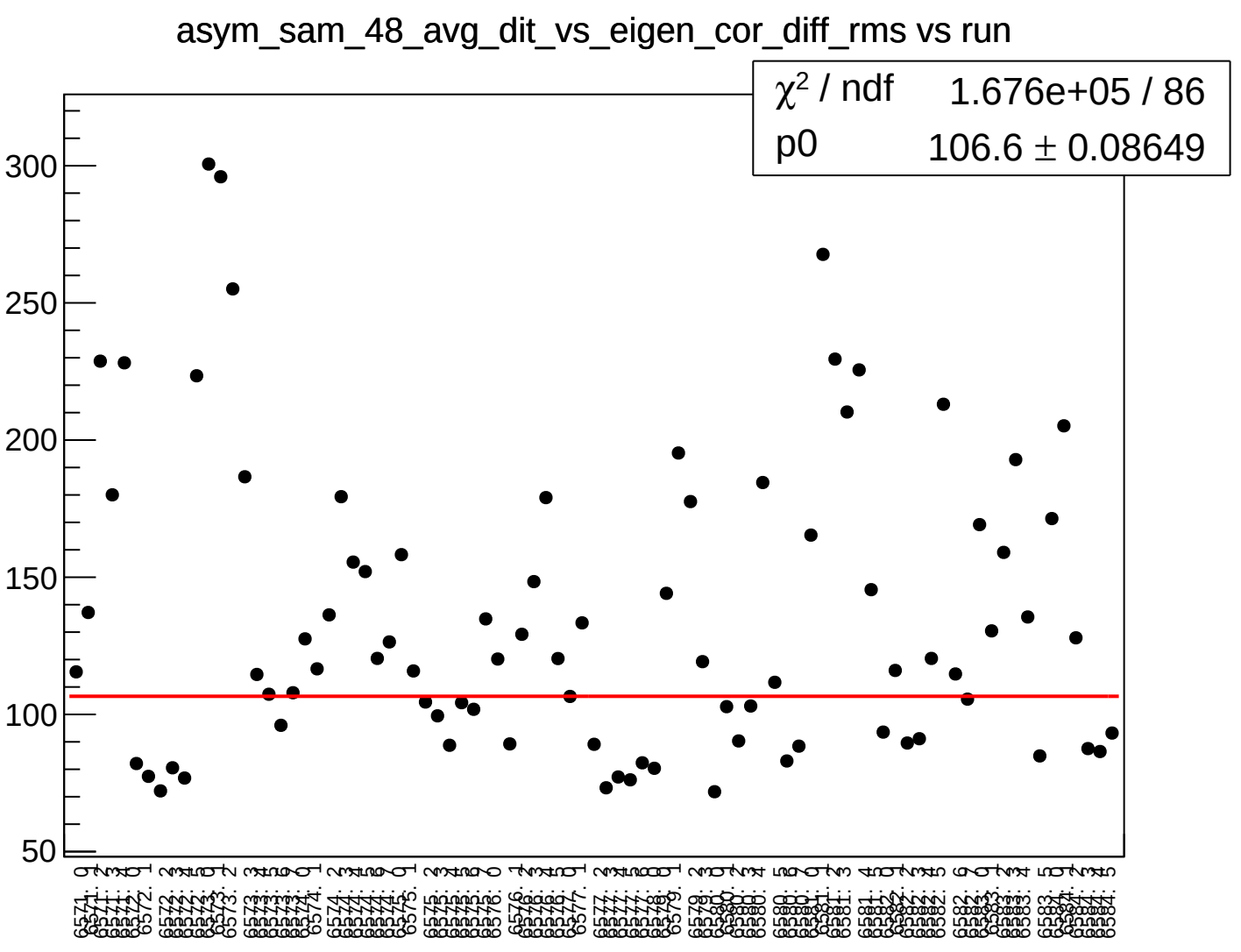

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 86
p0 2.003e−11 ± 2.5e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

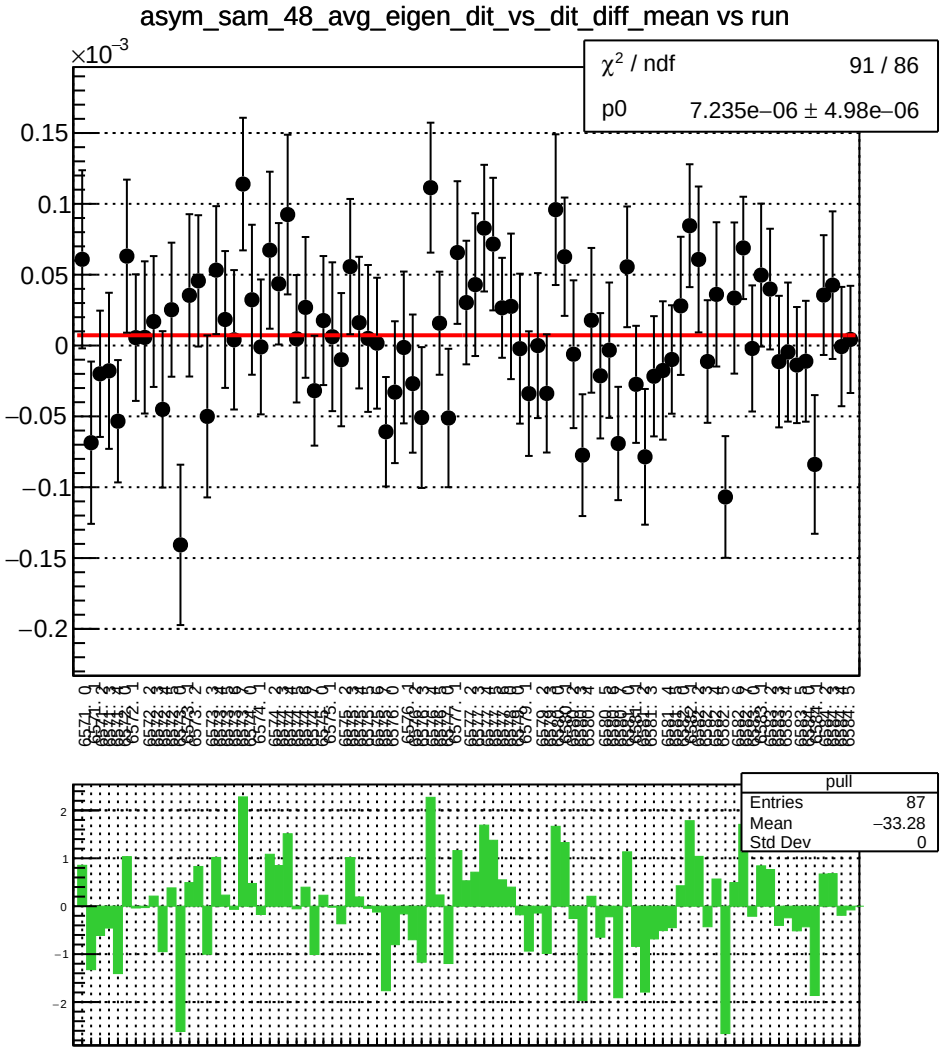

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.37 / 86
p0 −0.02319 ± 0.1223
pull
Entries 87
Mean −45.92
Std Dev 0

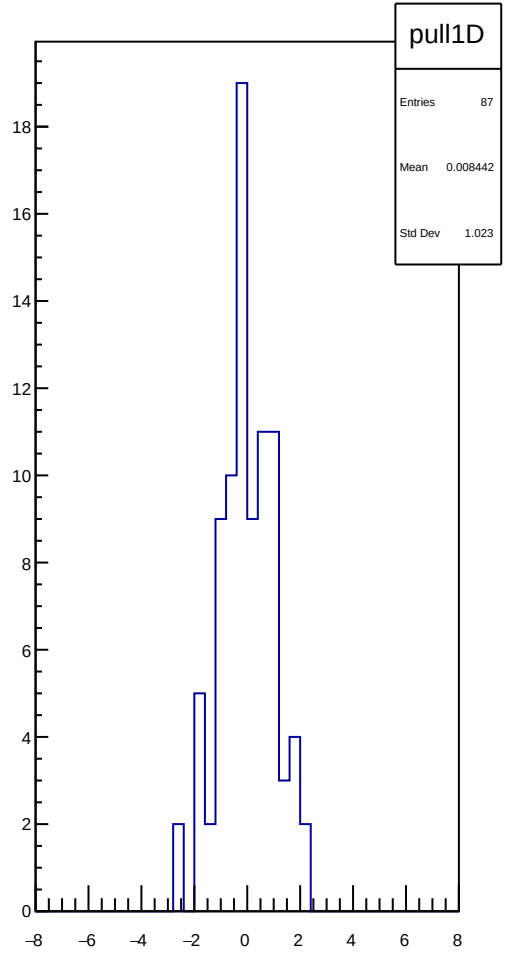

pull1D
Entries 87
Mean −0.05164
Std Dev 1.001

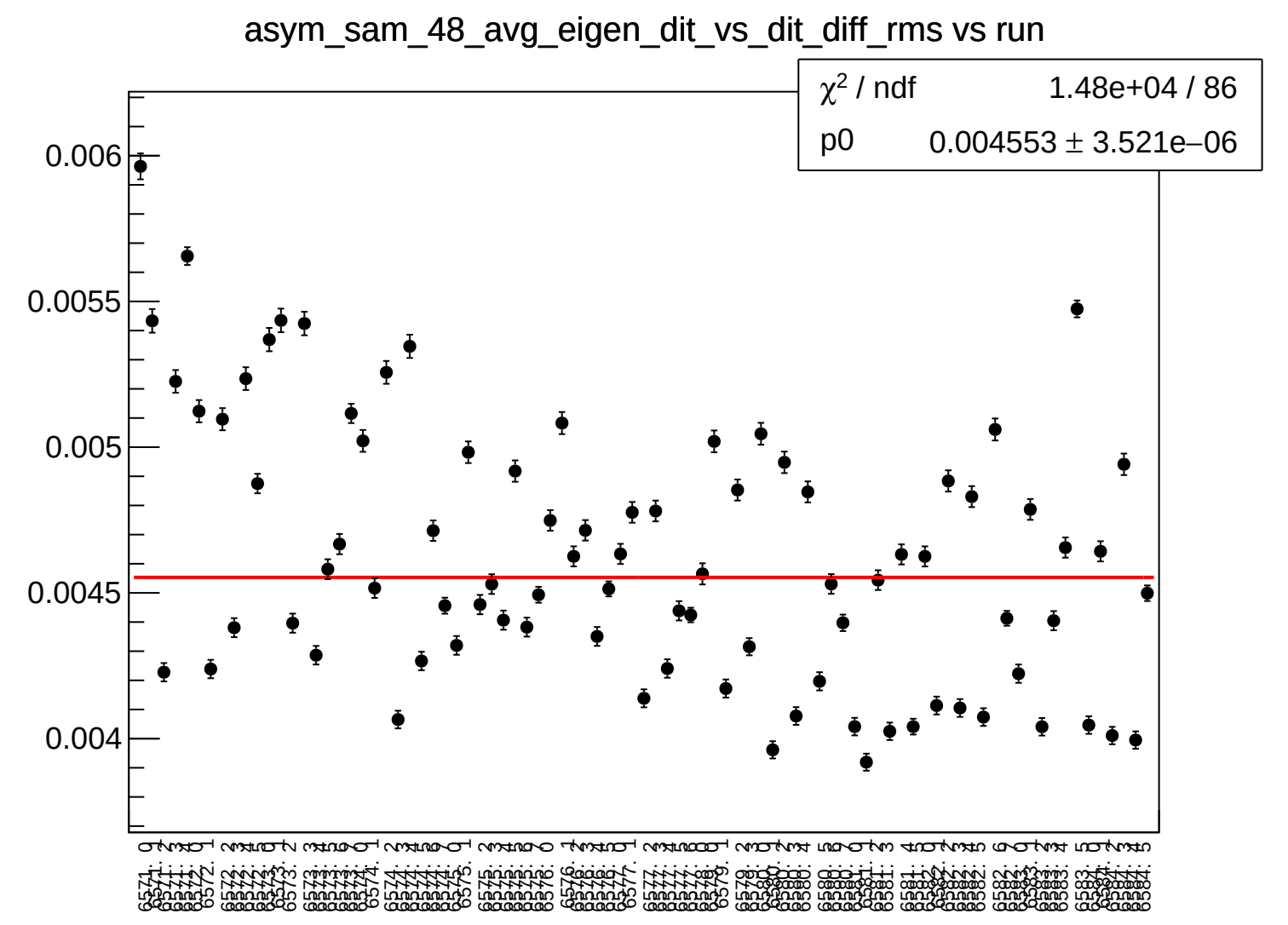

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.676e+05 / 86
p0 106.6 ± 0.08649
300
250
200
150
100
50

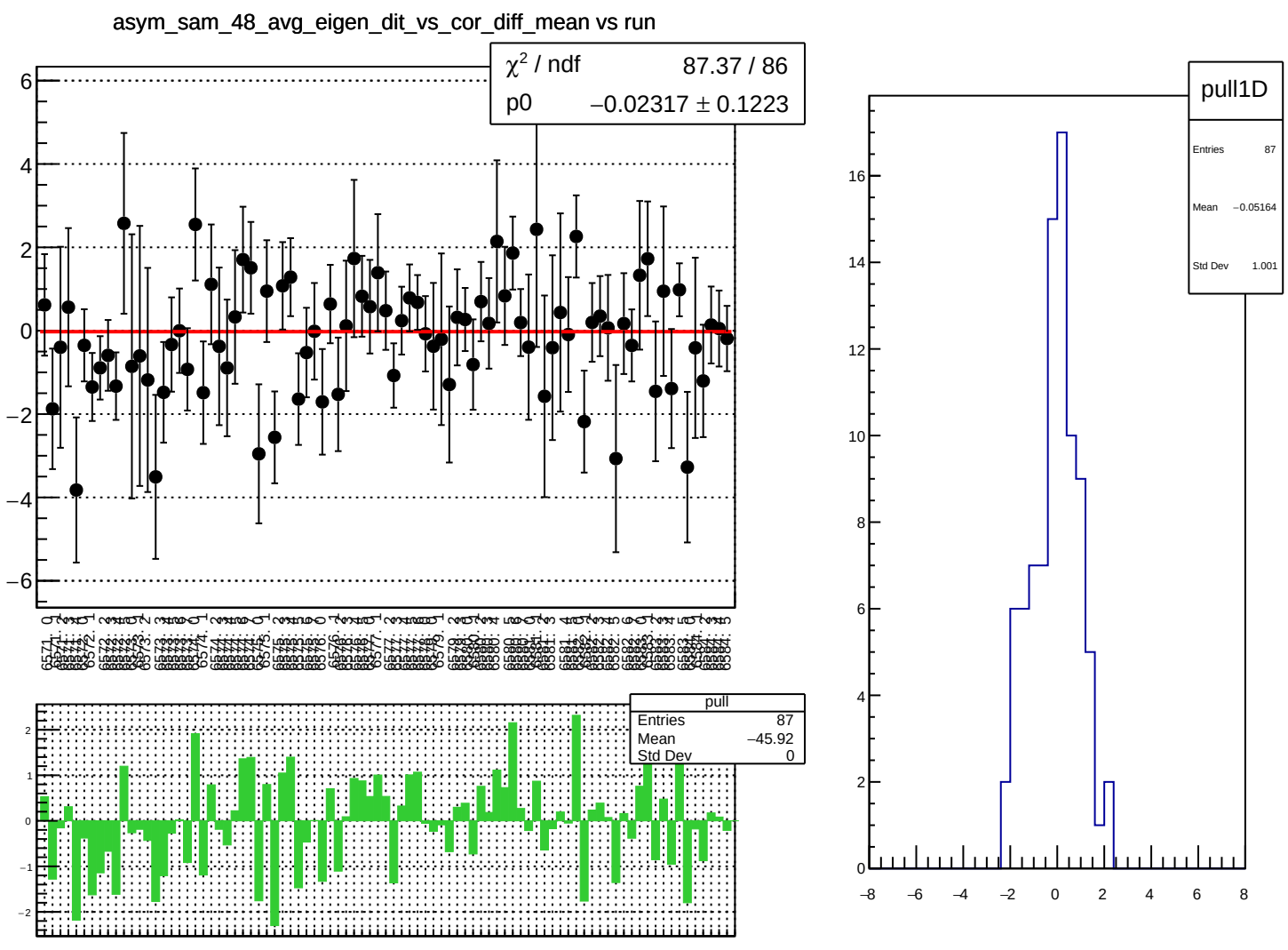

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.37 / 86
p0 −0.02319 ± 0.1223
pull
Entries 87
Mean −45.92
Std Dev 0
pull1D
Entries 87
Mean −0.05164
Std Dev 1.001

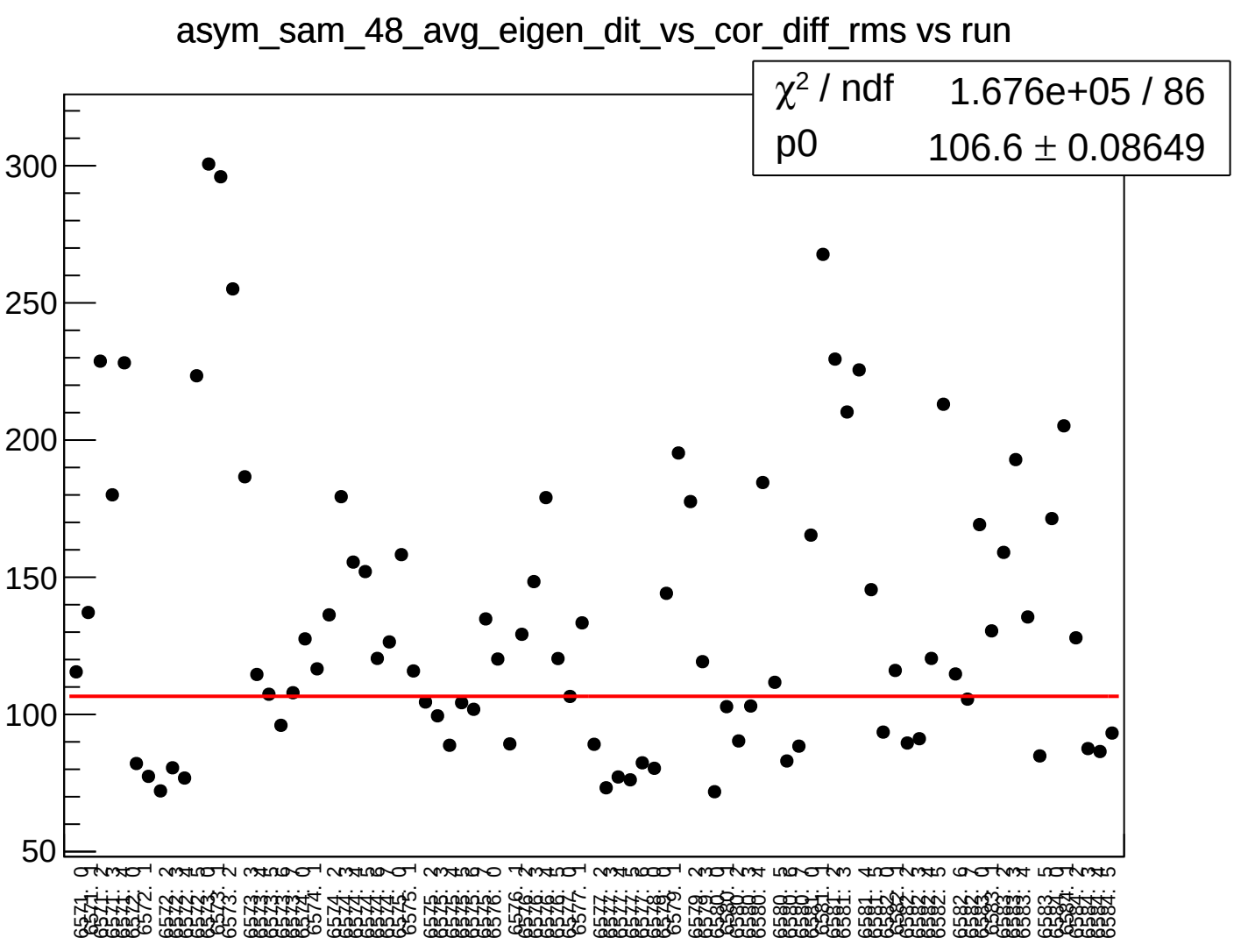

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.676e+05 / 86
p0 106.6 ± 0.08649
300
250
200
150
100
50

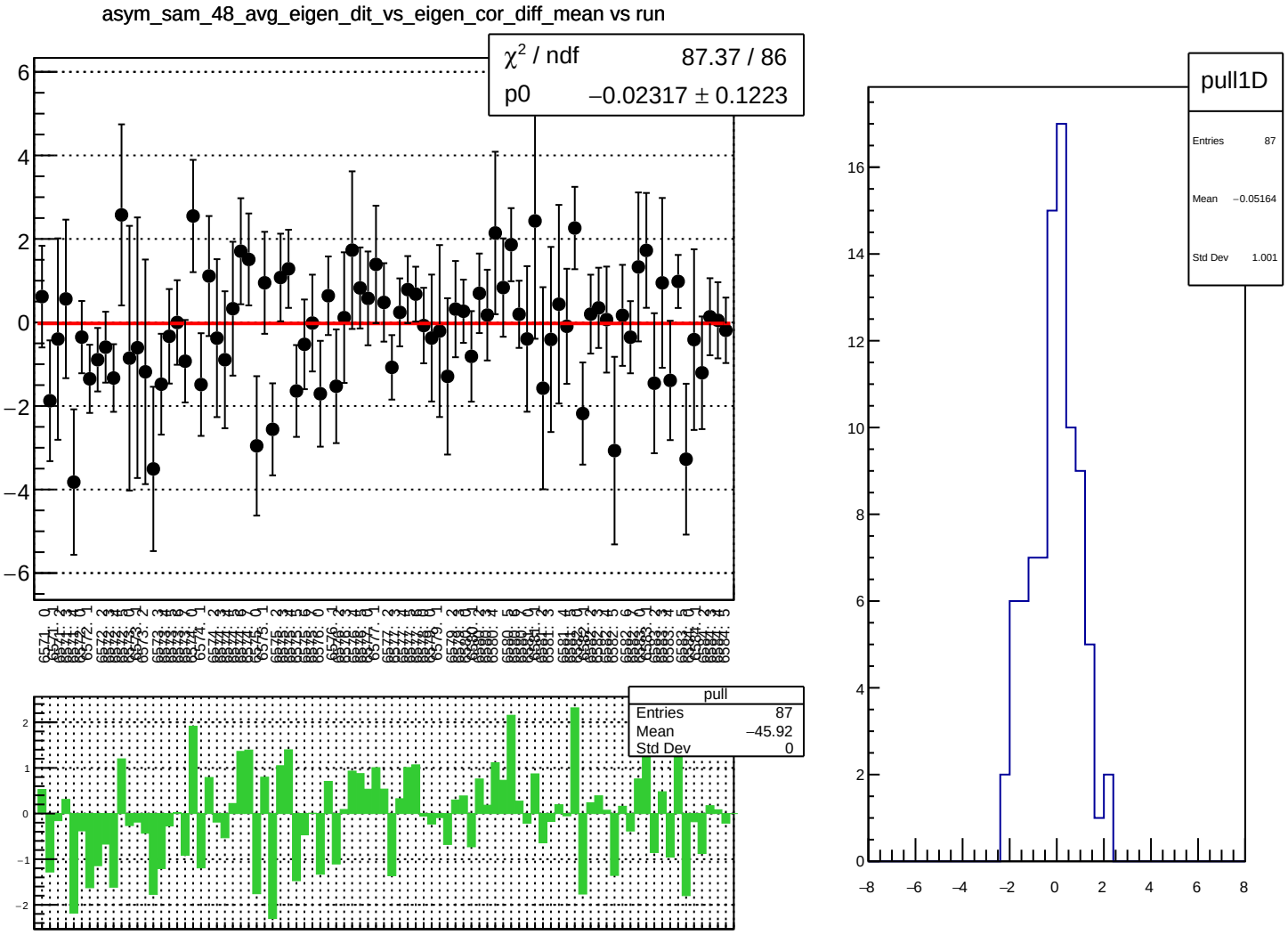

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91 / 86
p0 7.235e−06 ± 4.98e−06
pull
Entries 87
Mean −33.28
Std Dev 0

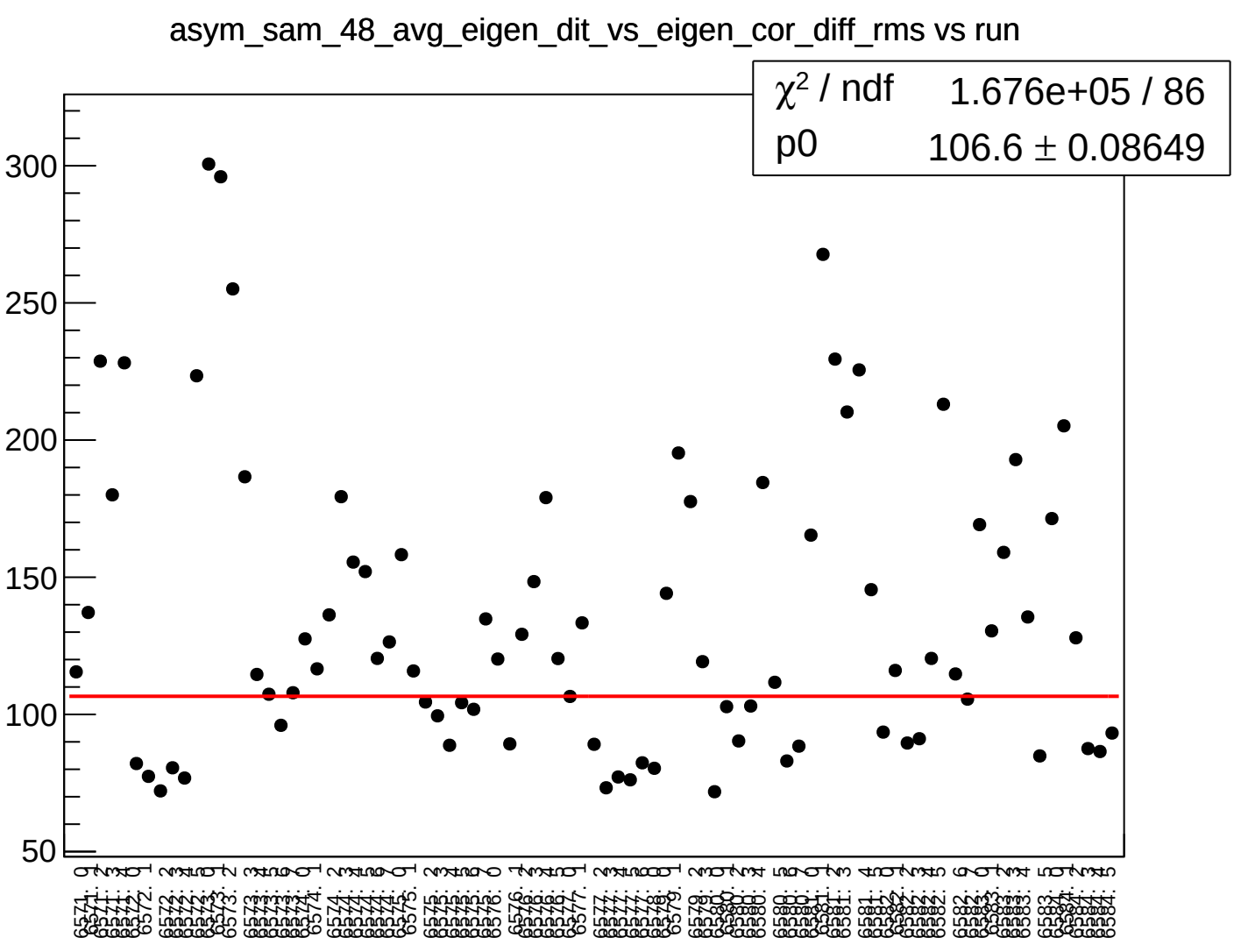

pull1D
Entries 87
Mean 0.008442
Std Dev 1.023

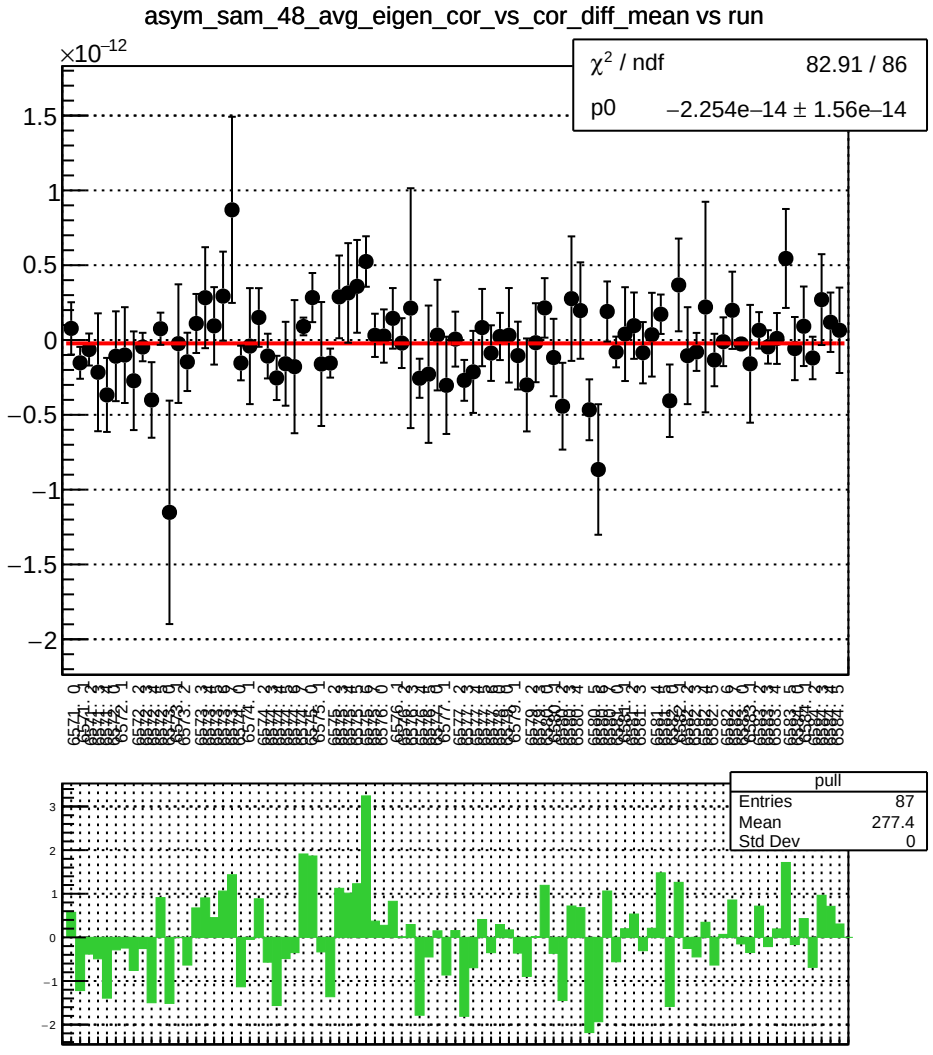

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.48e+04 / 86
p0 0.004553 ± 3.521e−06
0.006
0.0055
0.005
0.0045
0.004

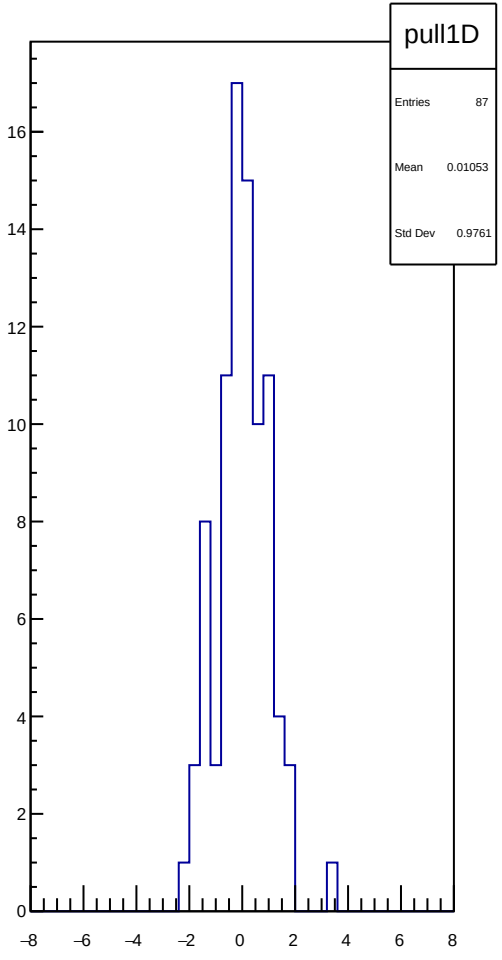

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.37 / 86
p0 −0.02317 ± 0.1223
pull
Entries 87
Mean −45.92
Std Dev 0
pull1D
Entries 87
Mean −0.05164
Std Dev 1.001

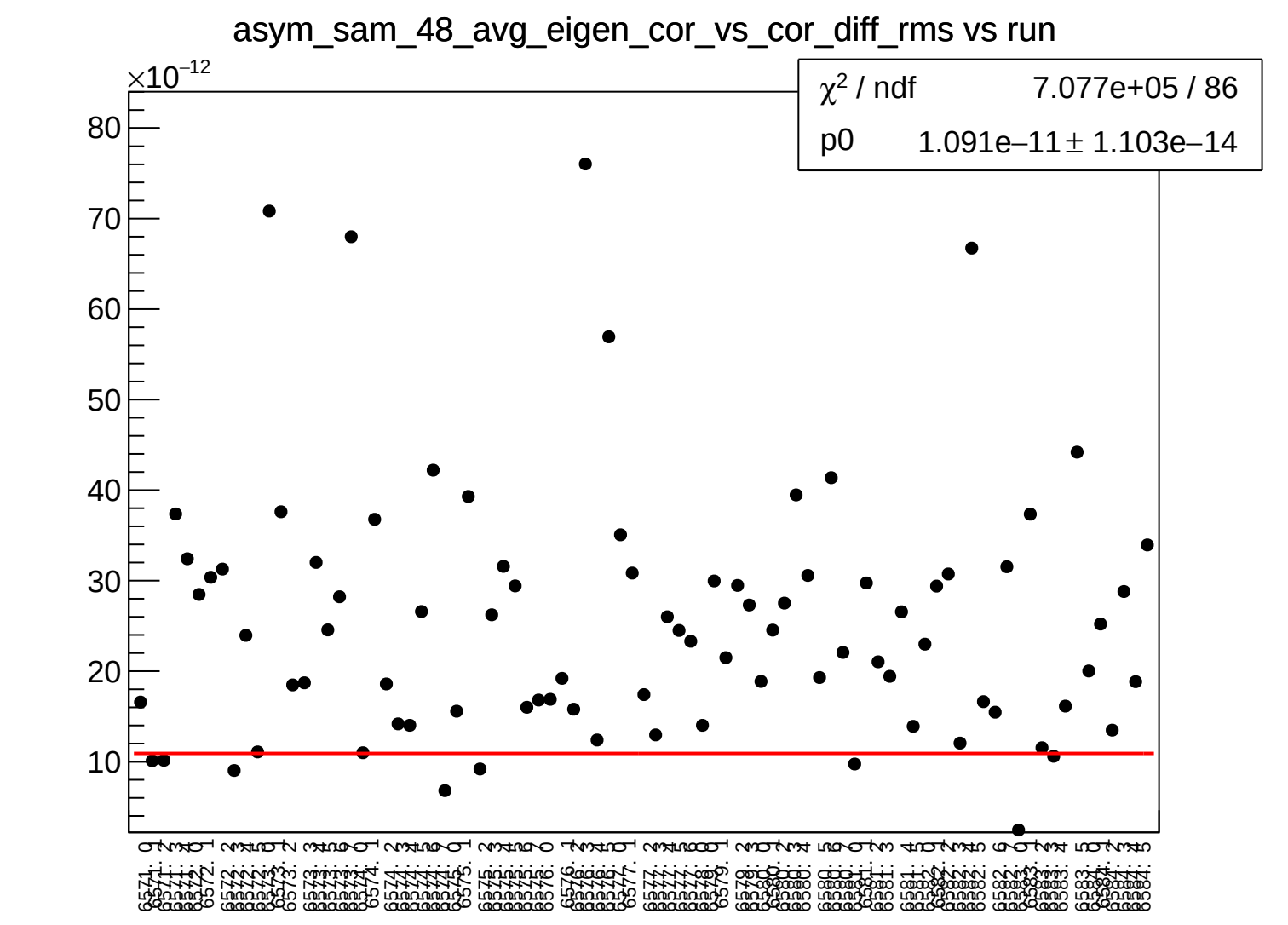

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.676e+05 / 86
p0 106.6 ± 0.08649
300
250
200
150
100
50

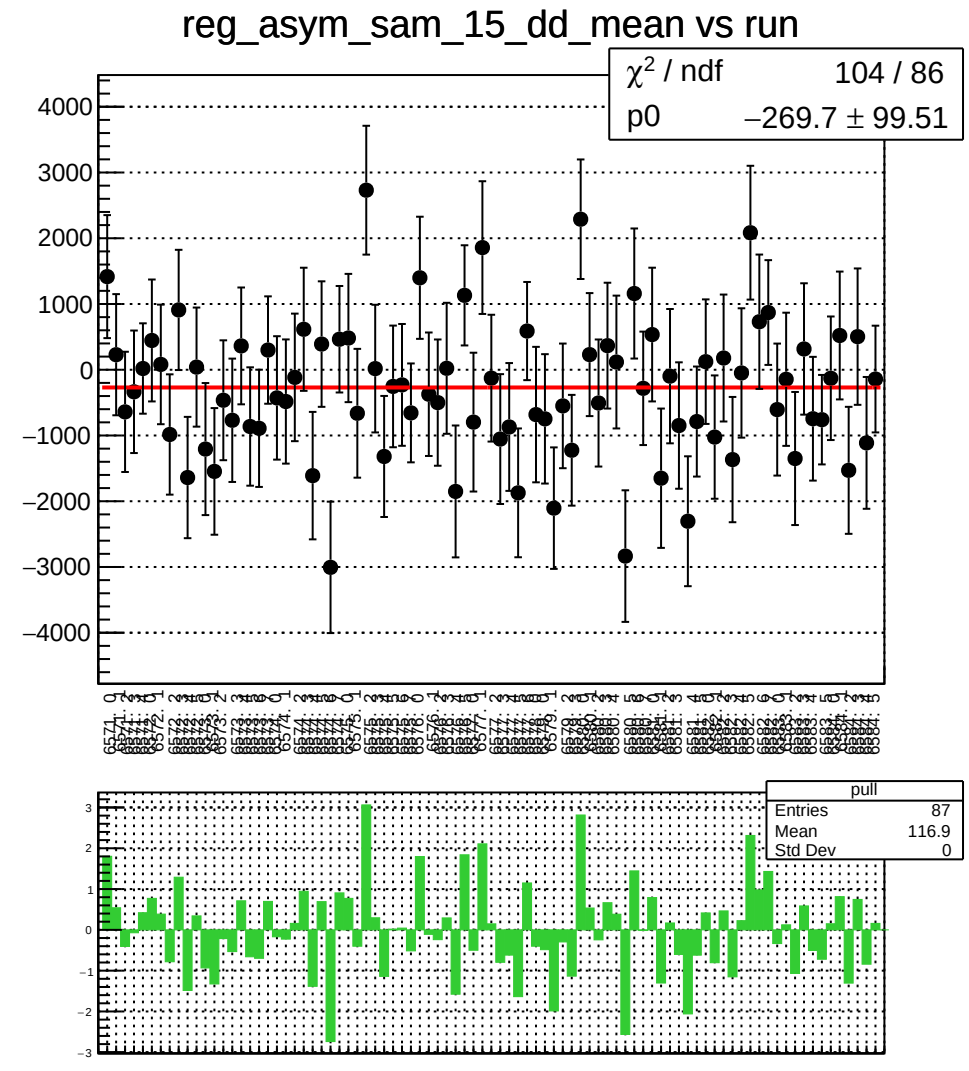

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.37 / 86
p0 −0.02317 ± 0.1223
pull
Entries 87
Mean −45.92
Std Dev 0
pull1D
Entries 87
Mean −0.05164
Std Dev 1.001

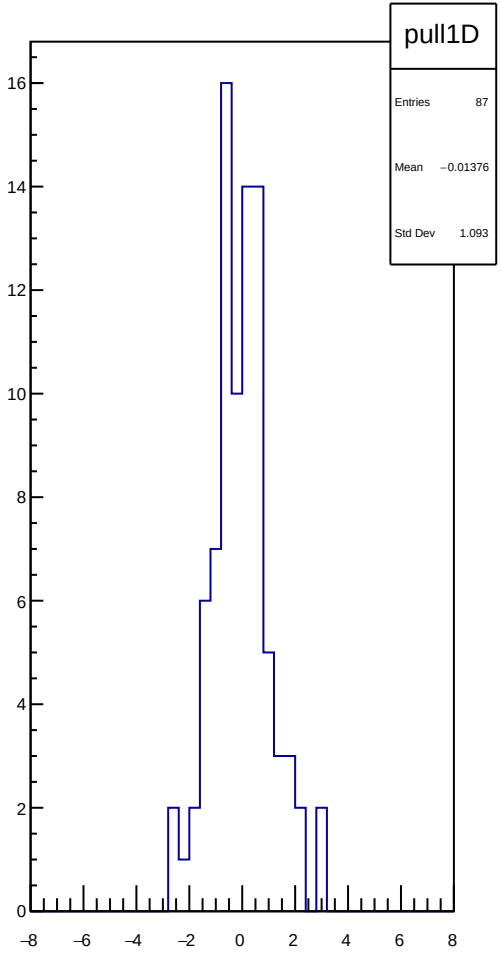

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.676e+05 / 86
p0 106.6 ± 0.08649
300
250
200
150
100
50

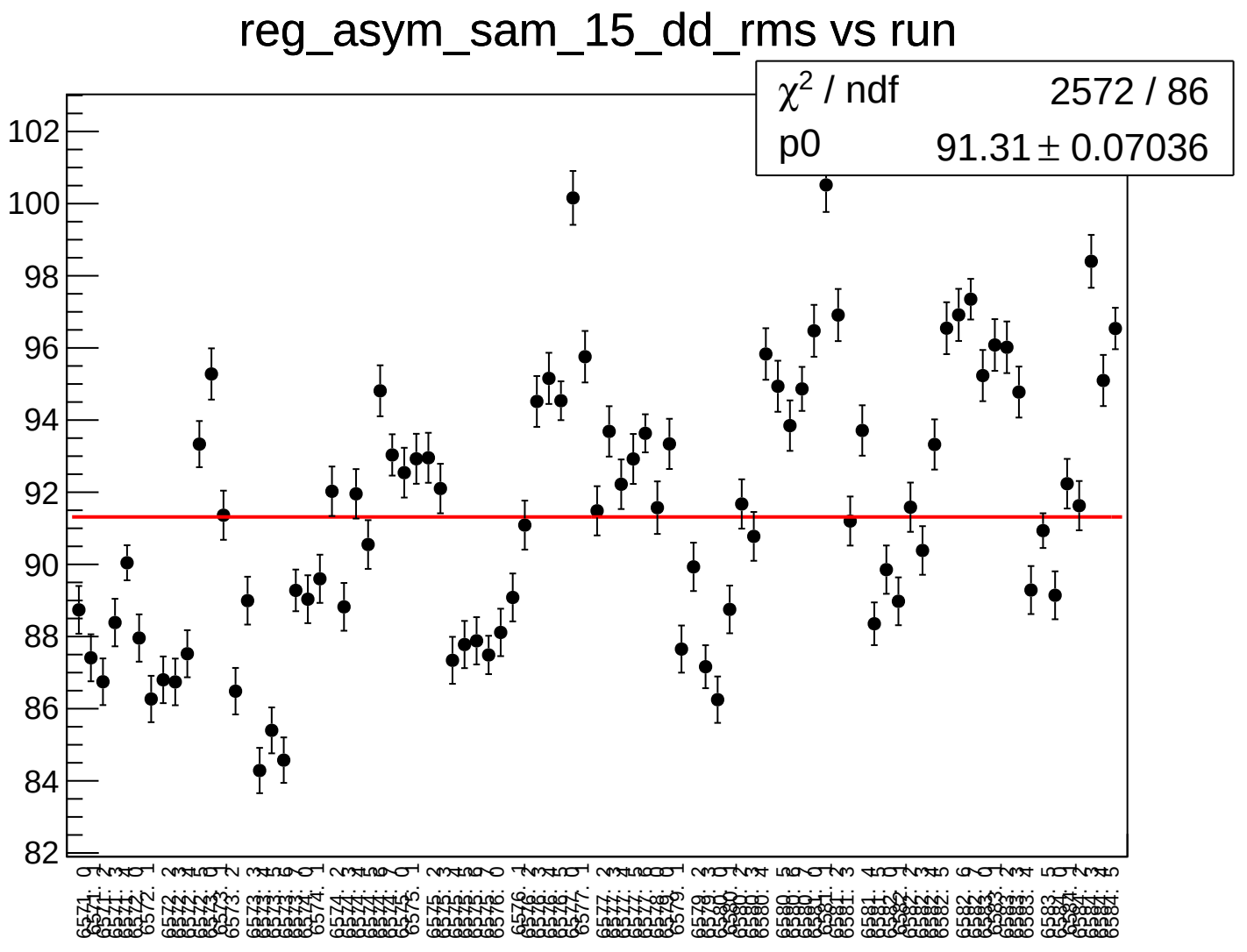

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.91 / 86
p0 −2.254e−14 ± 1.56e−14
pull
Entries 87
Mean 277.4
Std Dev 0

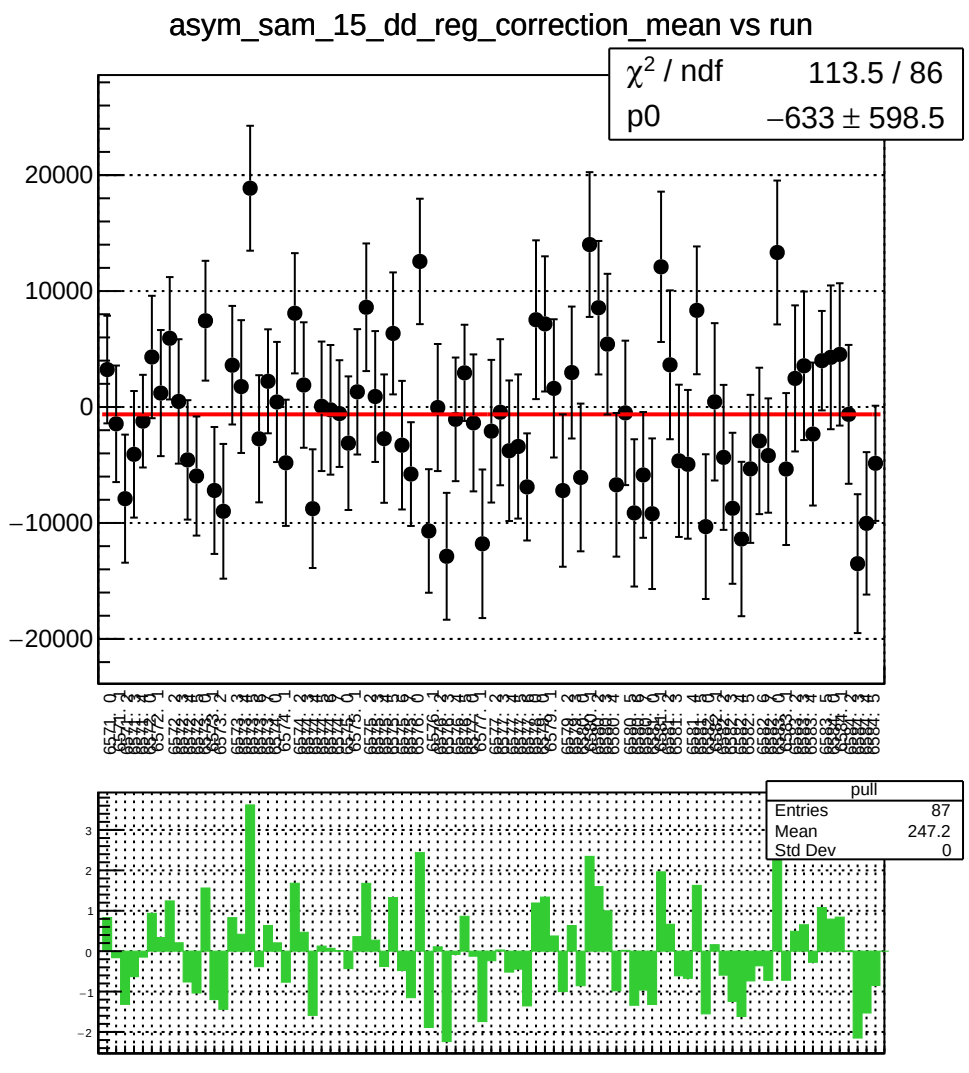

pull1D
Entries 87
Mean 0.01053
Std Dev 0.9761

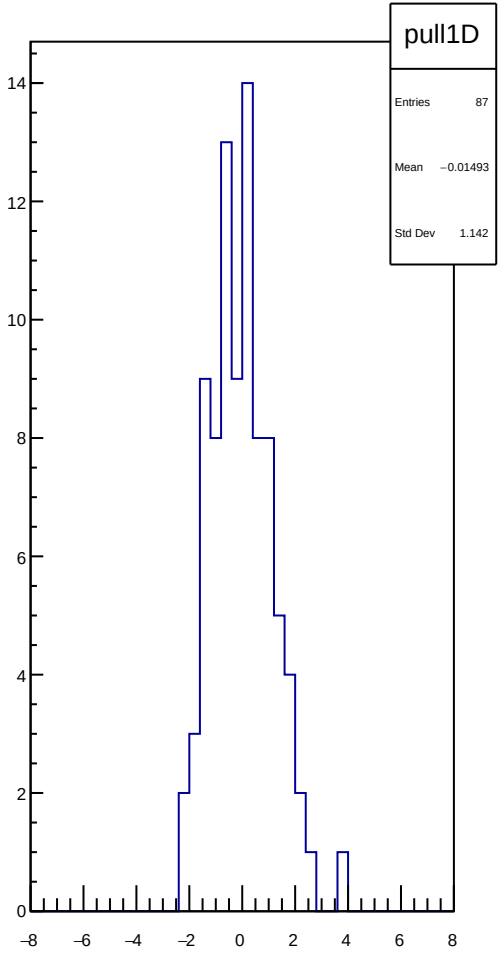

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.077e+05 / 86
p0 1.091e−11 ± 1.103e−14
80
70
60
50
40
30
20
10

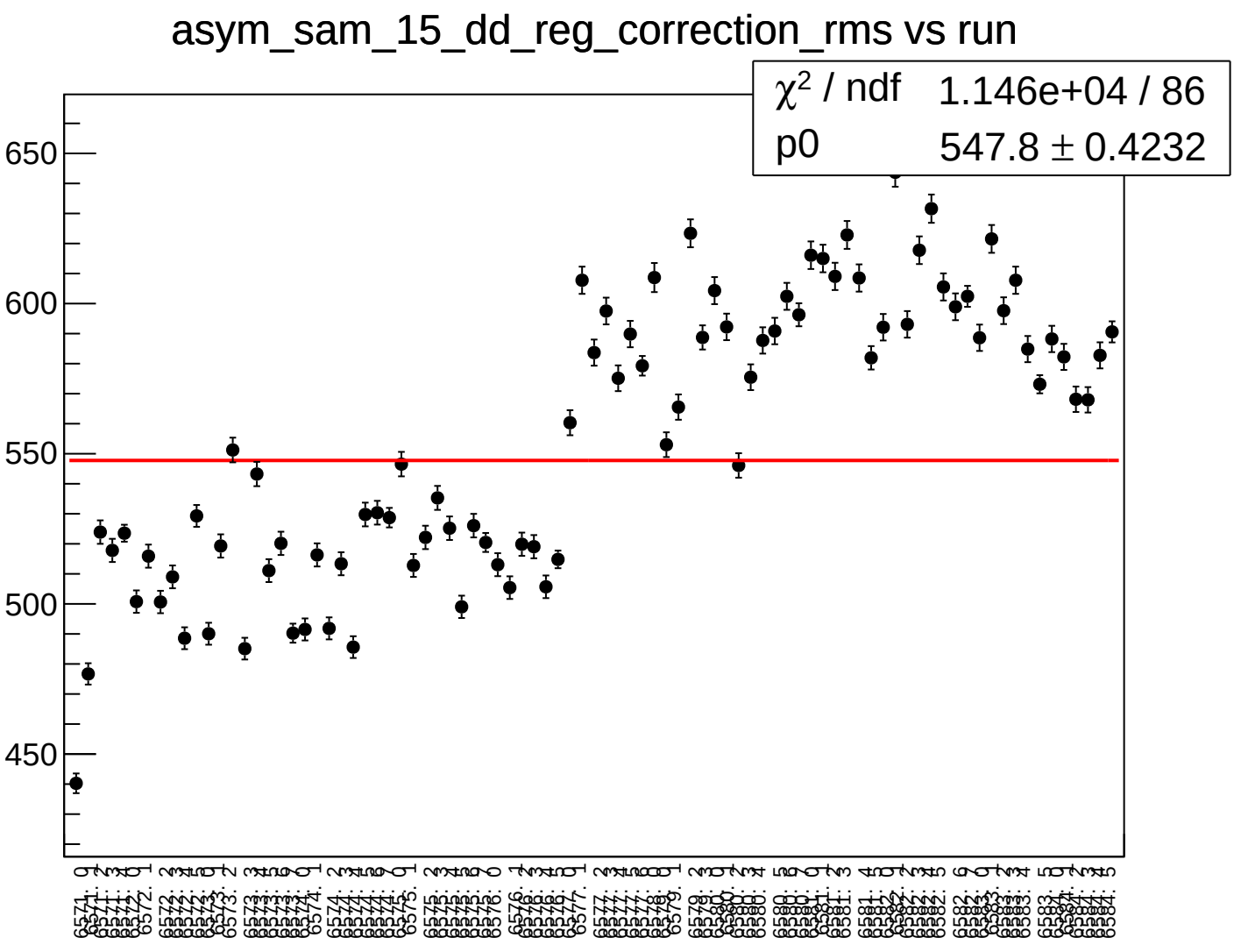

reg_asym_sam_15_dd_mean vs run
χ² / ndf 104 / 86
p0 −269.7 ± 99.51
pull
Entries 87
Mean 116.9
Std Dev 0

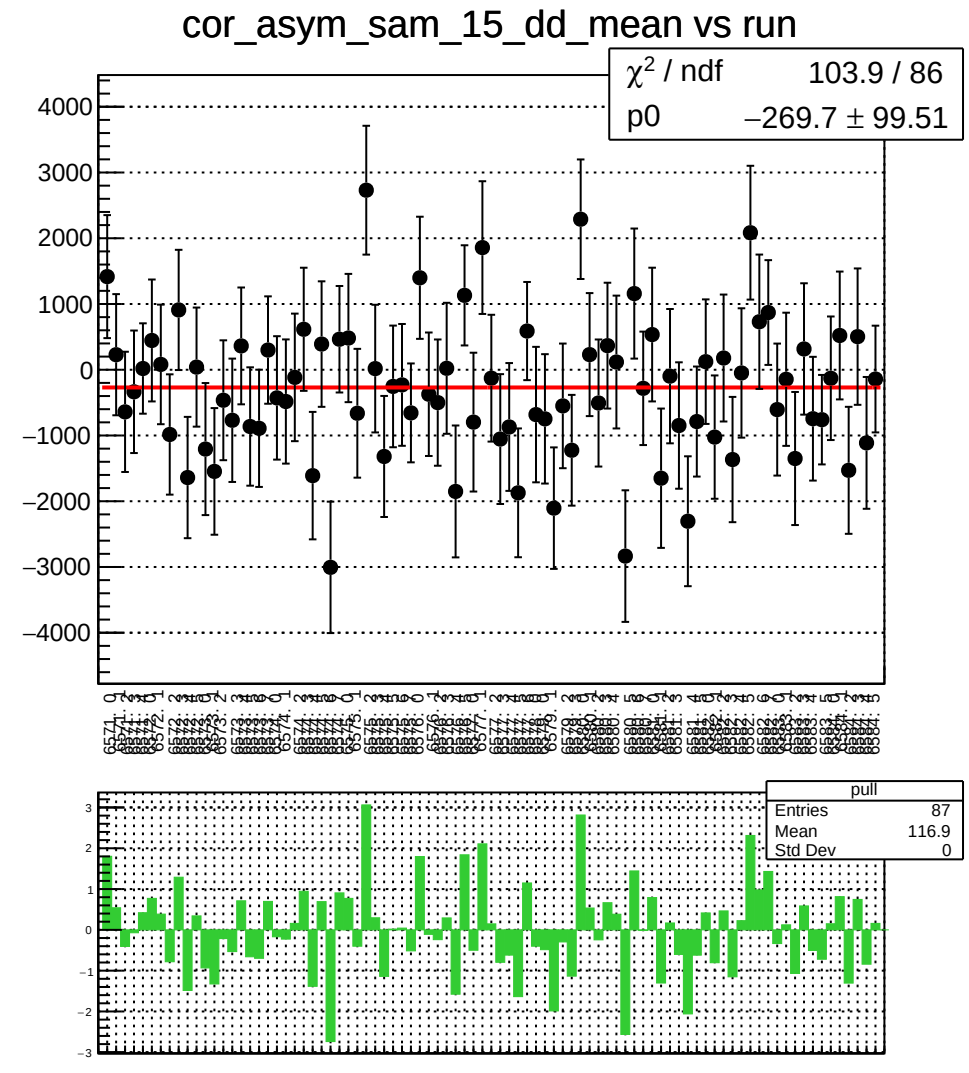

pull1D
Entries 87
Mean −0.01376
Std Dev 1.093

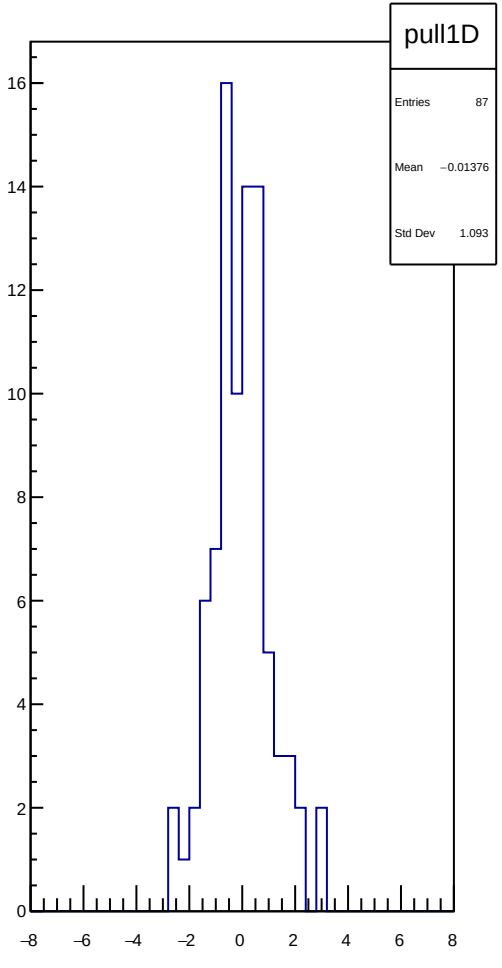

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 2572 / 86
p0 91.31 ± 0.07036
102
100
98
96
94
92
90
88
86
84
82

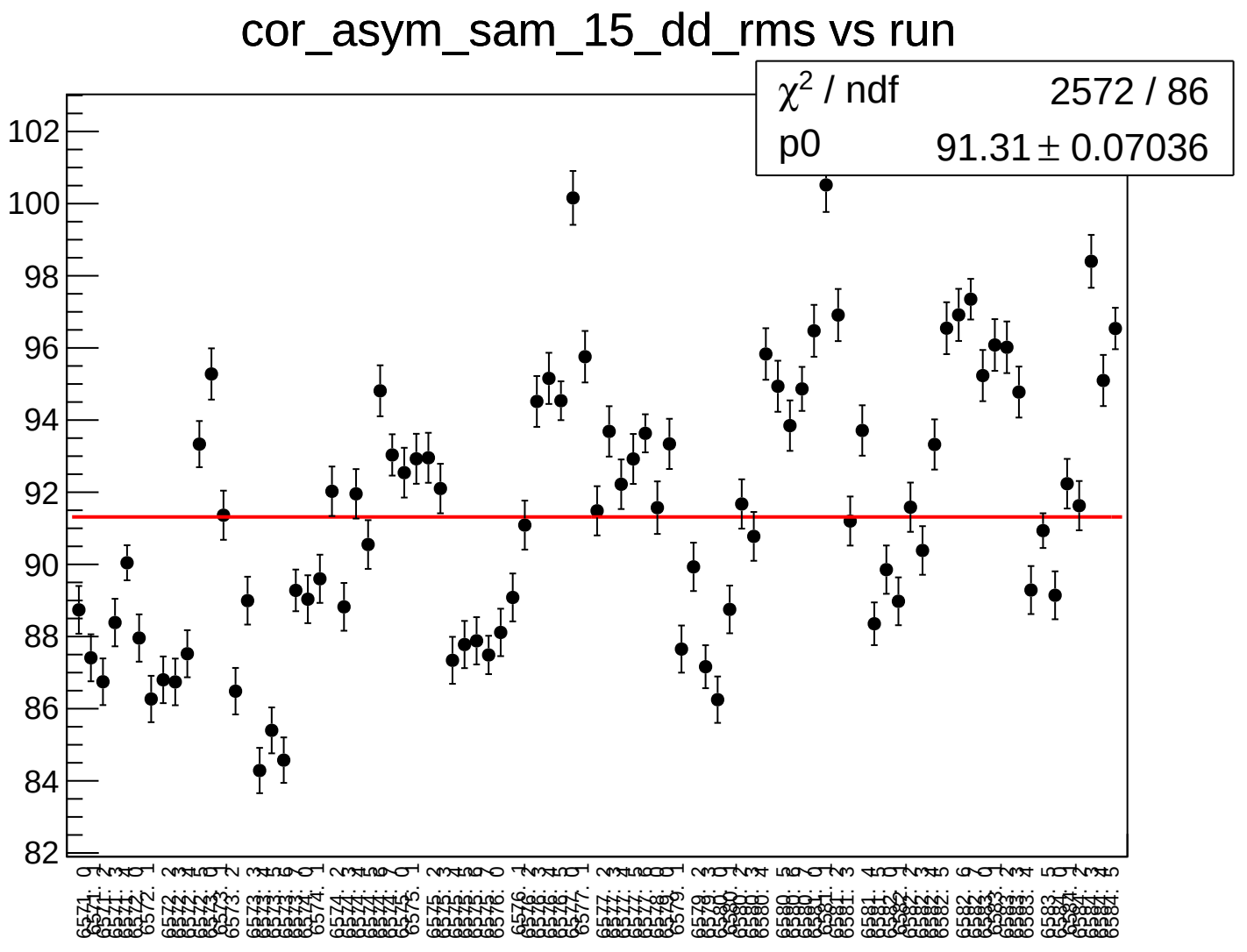

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 113.5 / 86
p0 −633 ± 598.5
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 247.2
Std Dev 0
3
2
1
0
−1
−2

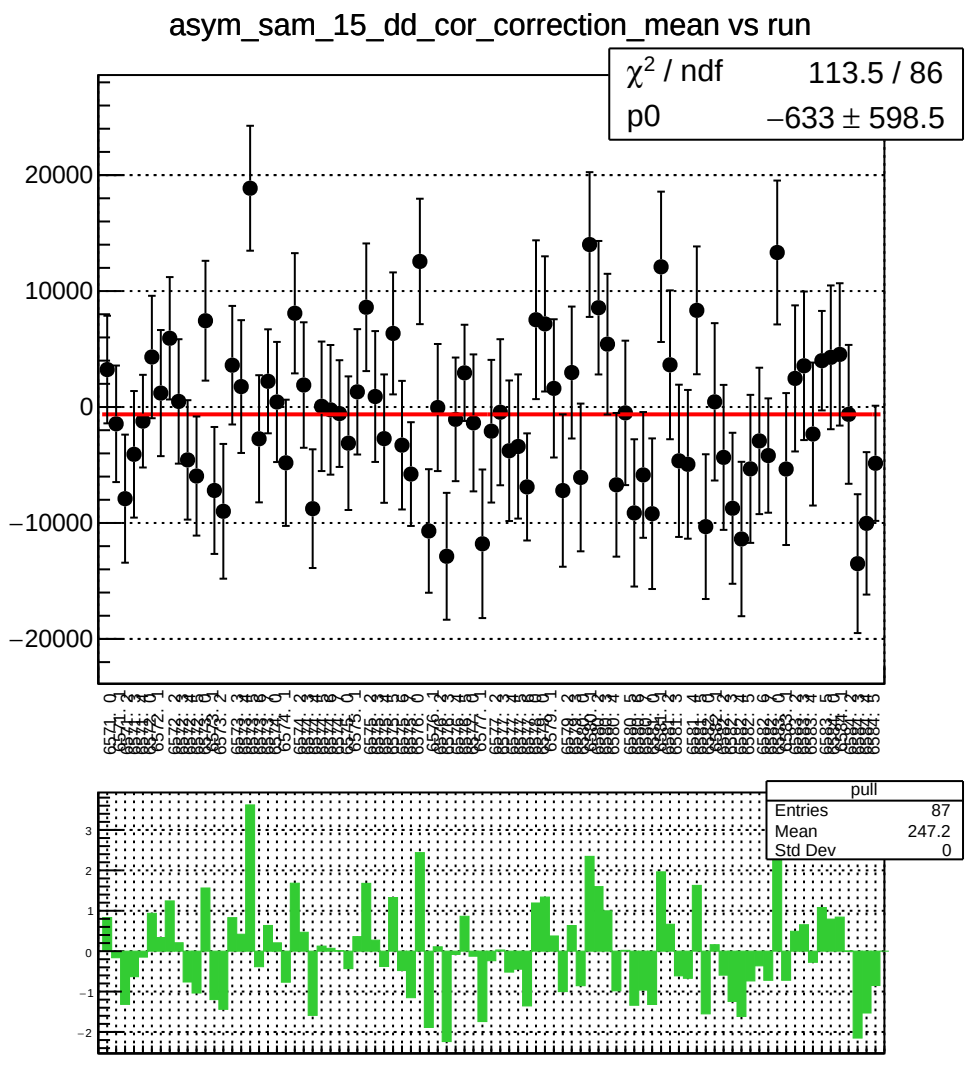

pull1D
Entries 87
Mean −0.01493
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

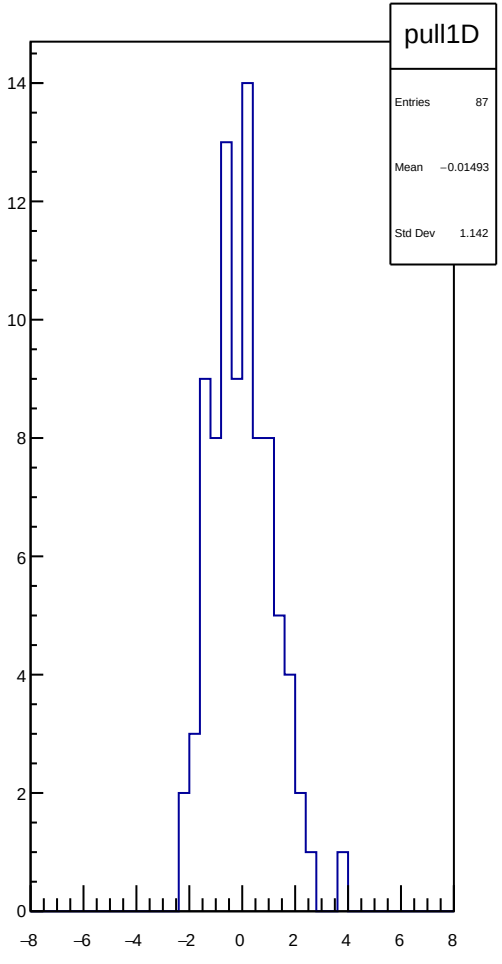

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1.146e+04 / 86
p0 547.8 ± 0.4232
650
600
550
500
450

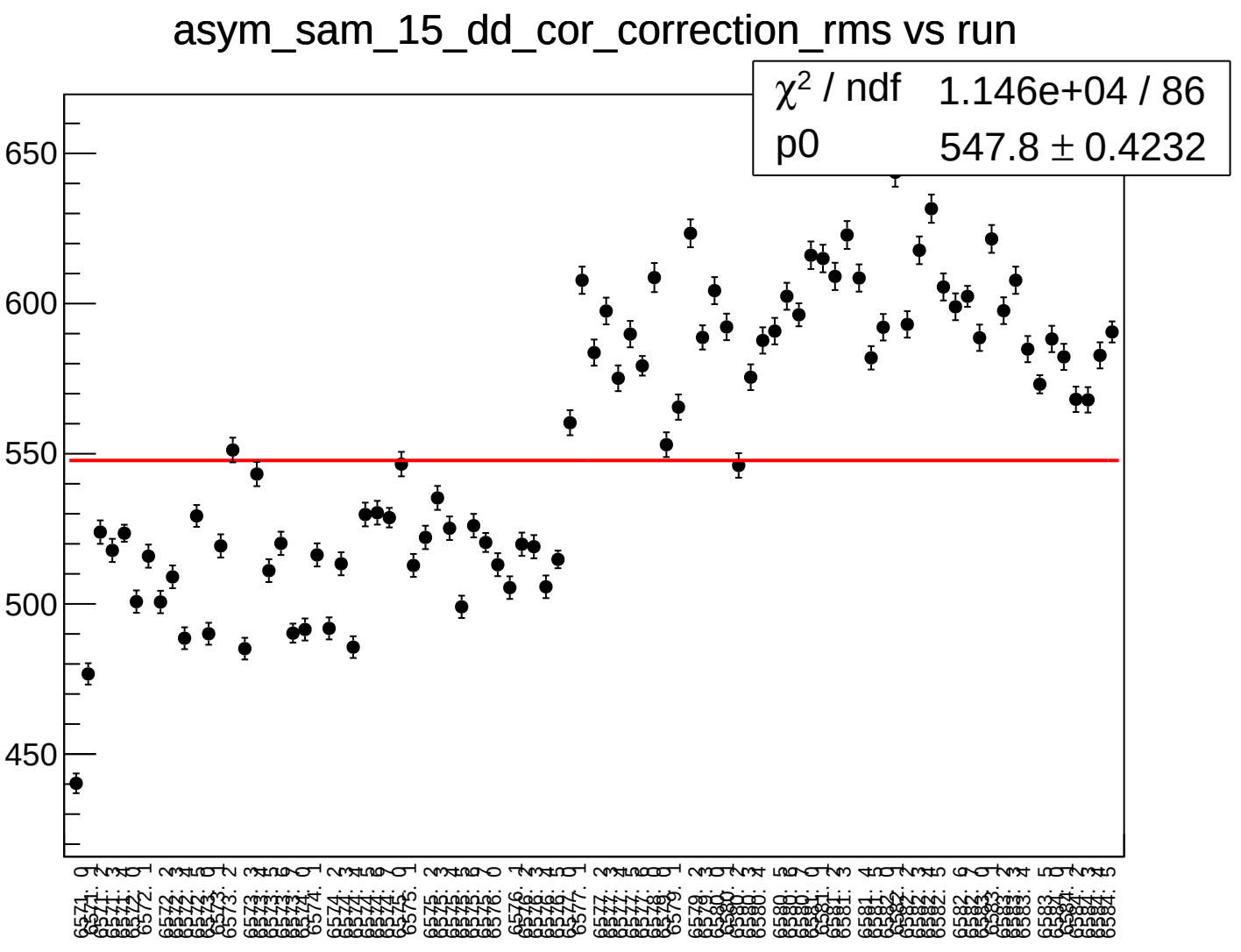

cor_asym_sam_15_dd_mean vs run
χ² / ndf 103.9 / 86
p0 −269.7 ± 99.51
pull
Entries 87
Mean 116.9
Std Dev 0

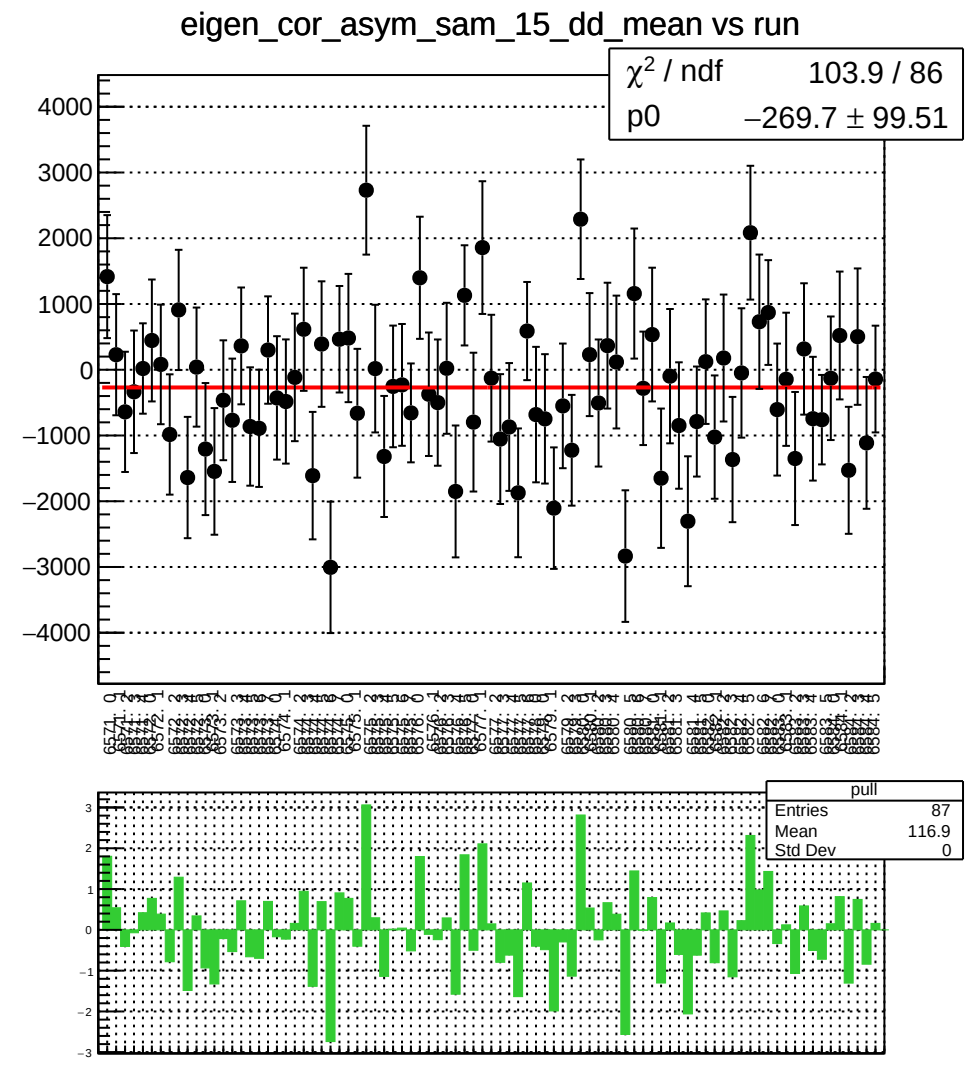

pull1D
Entries 87
Mean −0.01376
Std Dev 1.093

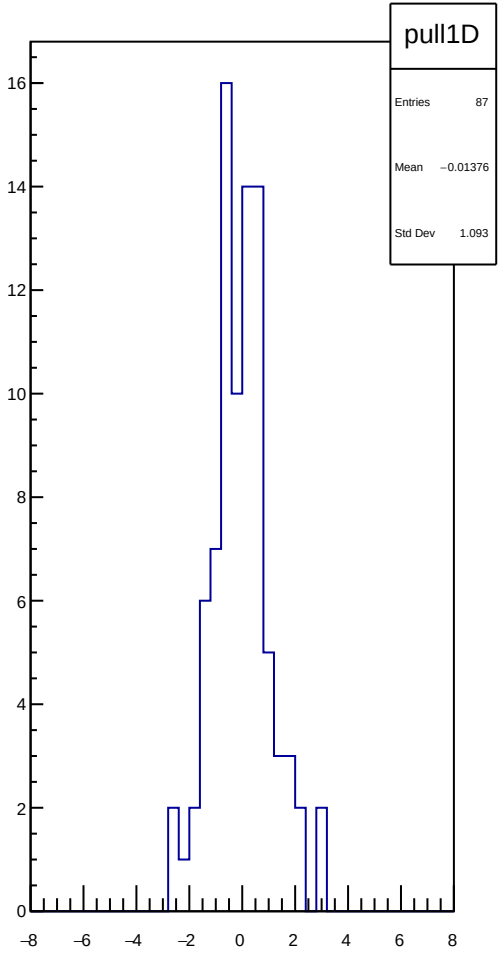

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 2572 / 86
p0 91.31 ± 0.07036
102
100
98
96
94
92
90
88
86
84
82

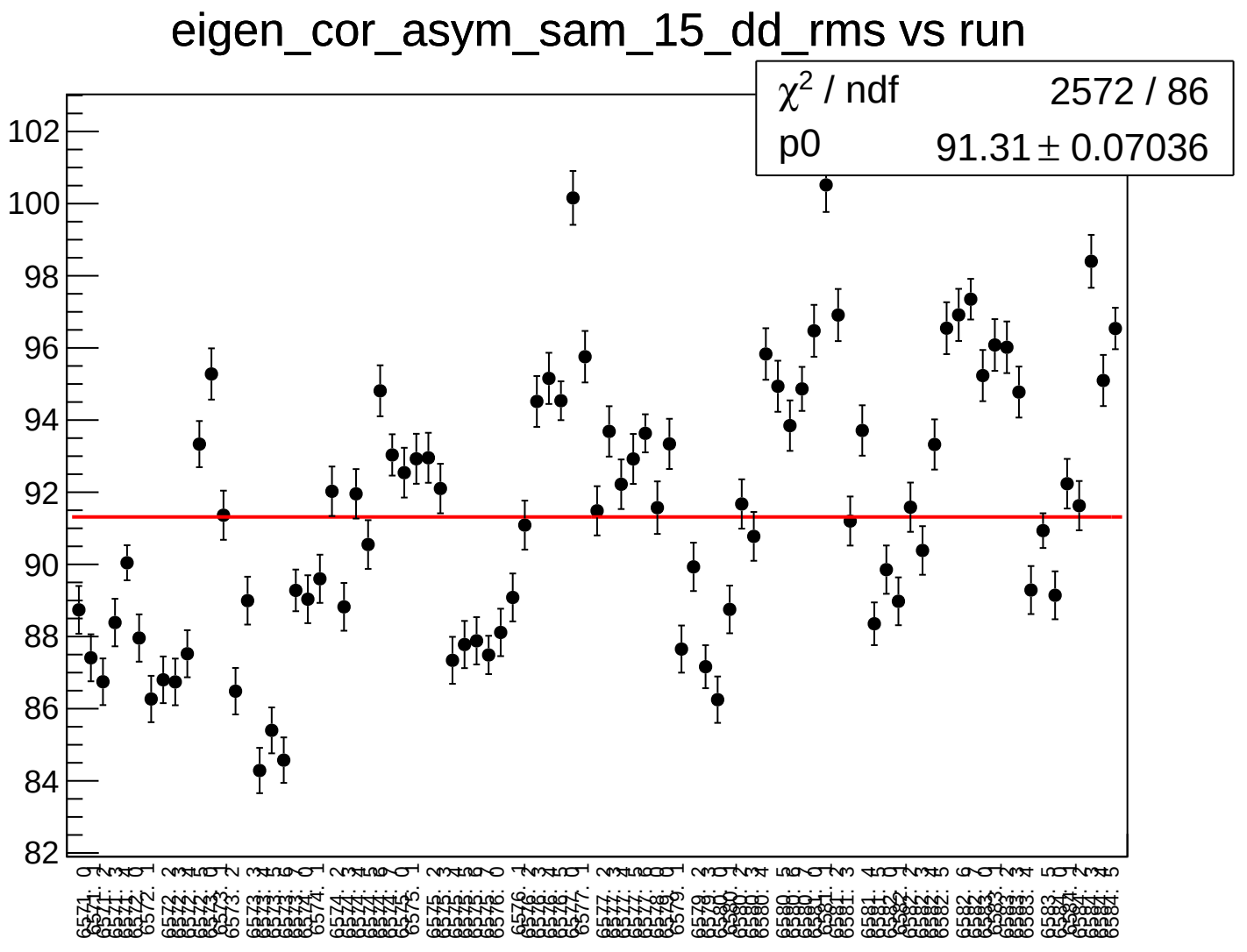

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 113.5 / 86
p0 −633 ± 598.5
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 247.2
Std Dev 0
3
2
1
0
−1
−2

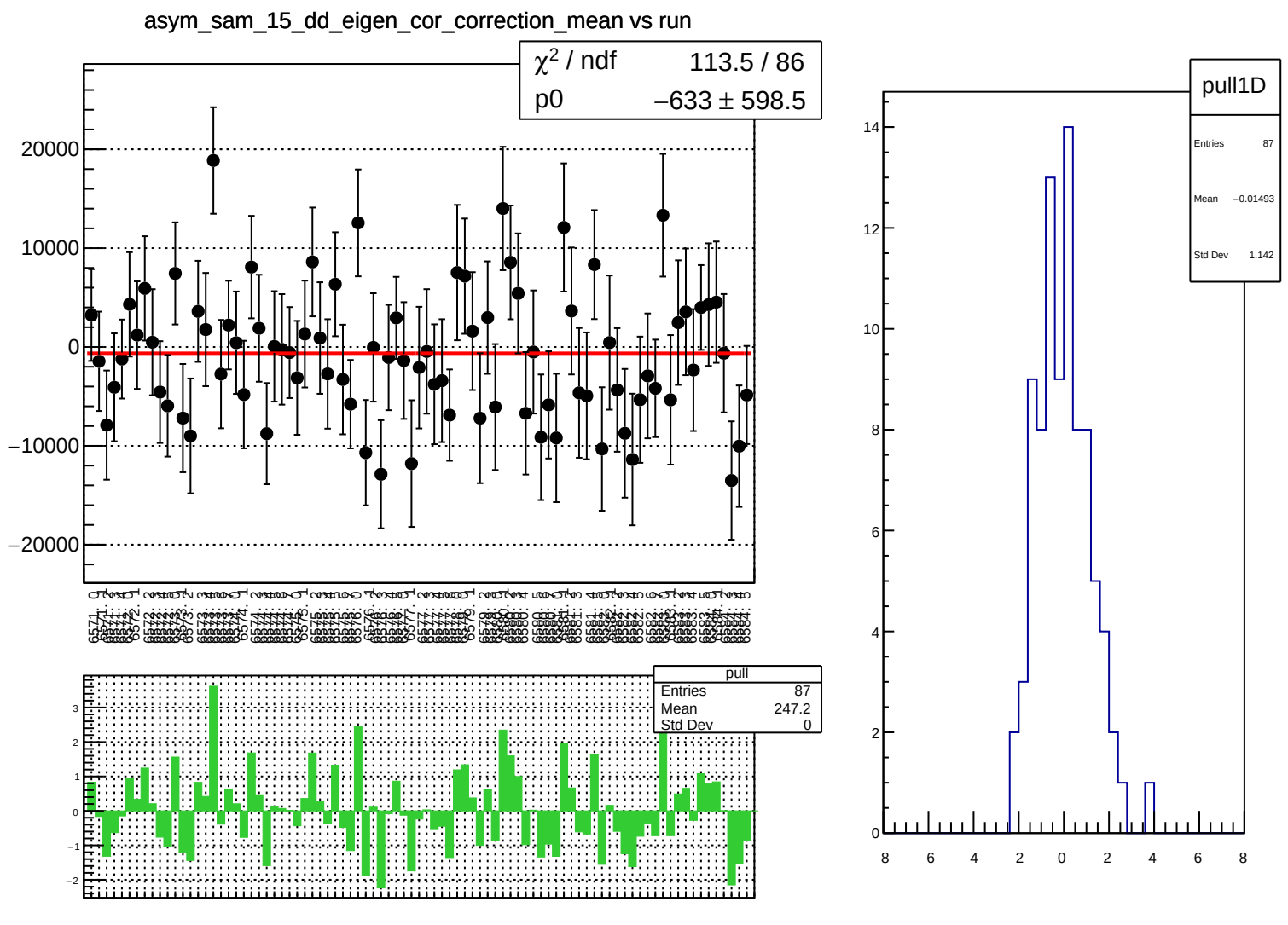

pull1D
Entries 87
Mean −0.01493
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

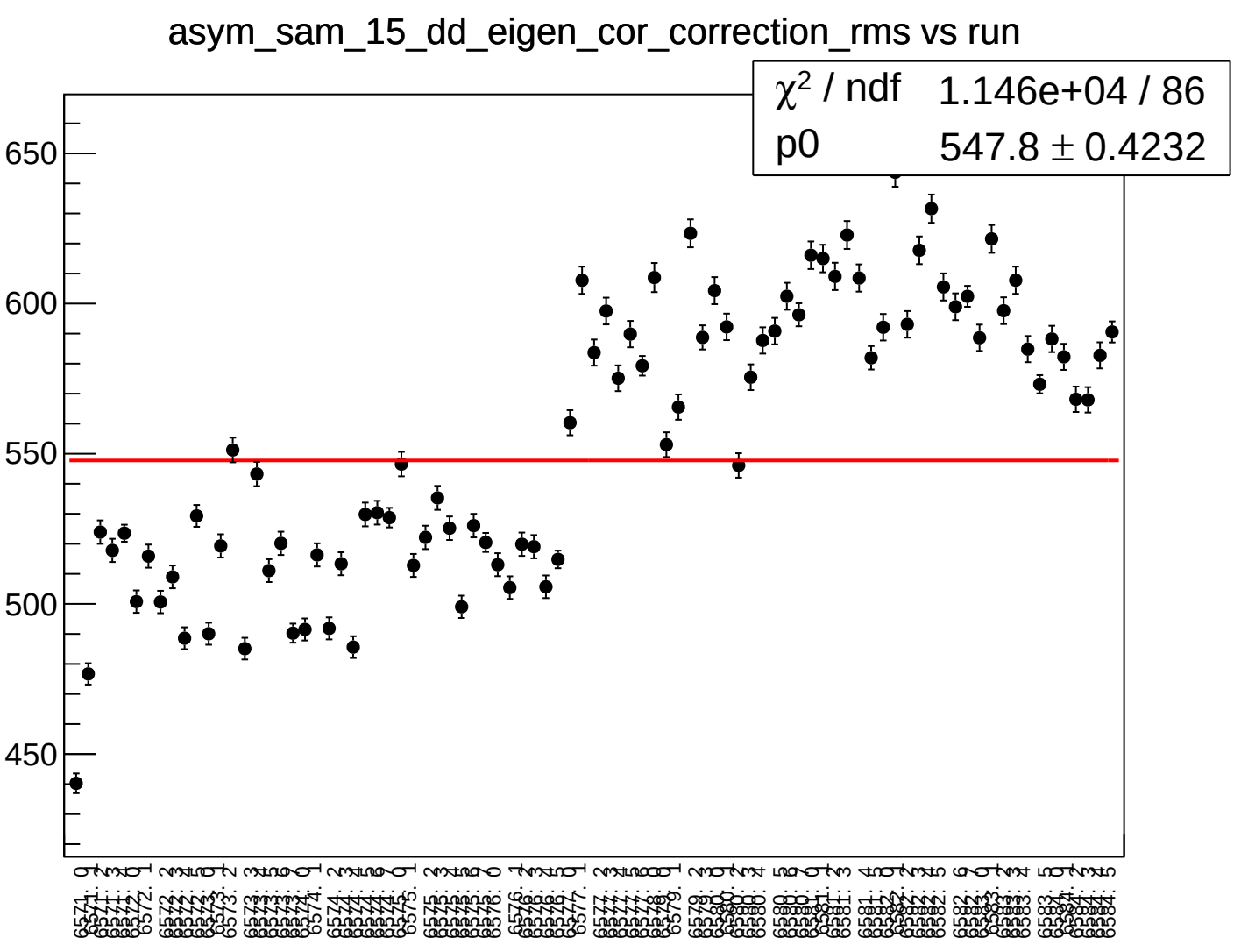

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1.146e+04 / 86
p0 547.8 ± 0.4232
650
600
550
500
450

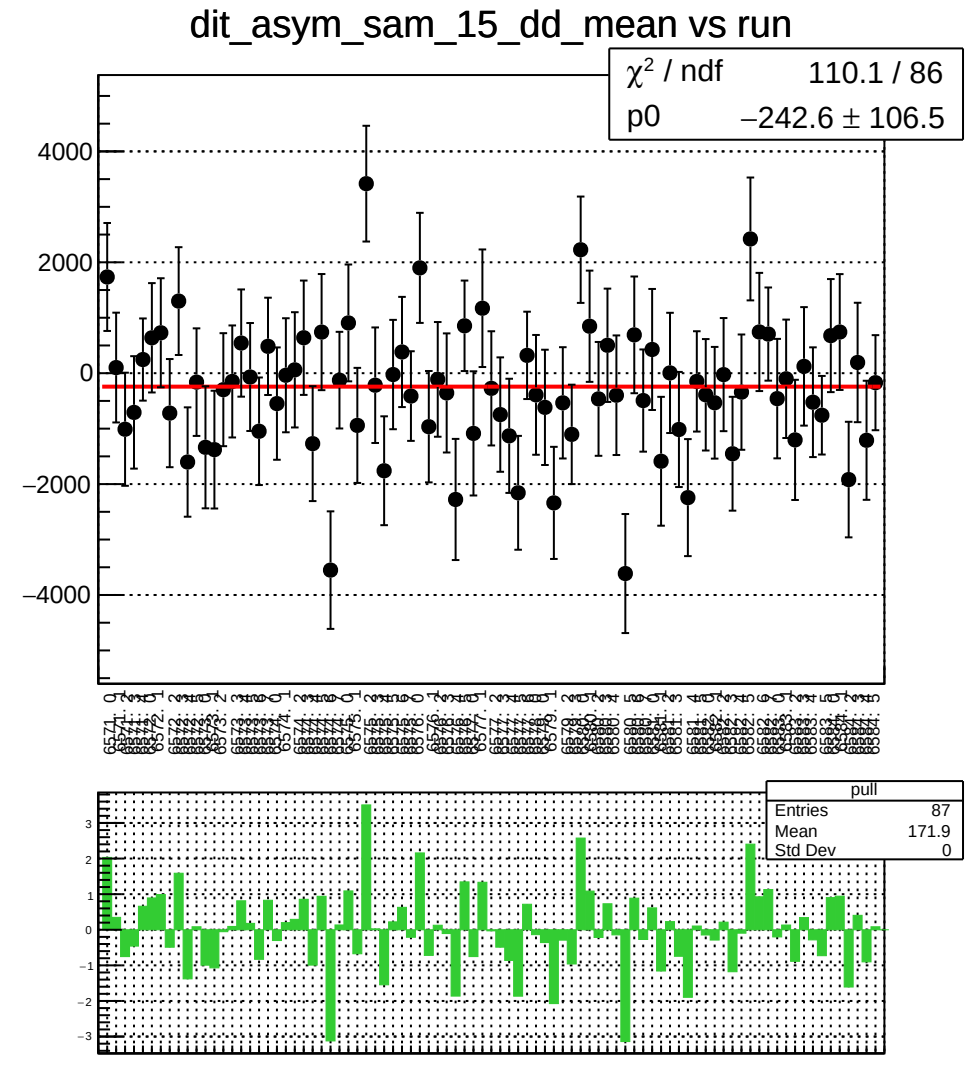

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 103.9 / 86
p0 −269.7 ± 99.51
pull
Entries 87
Mean 116.9
Std Dev 0

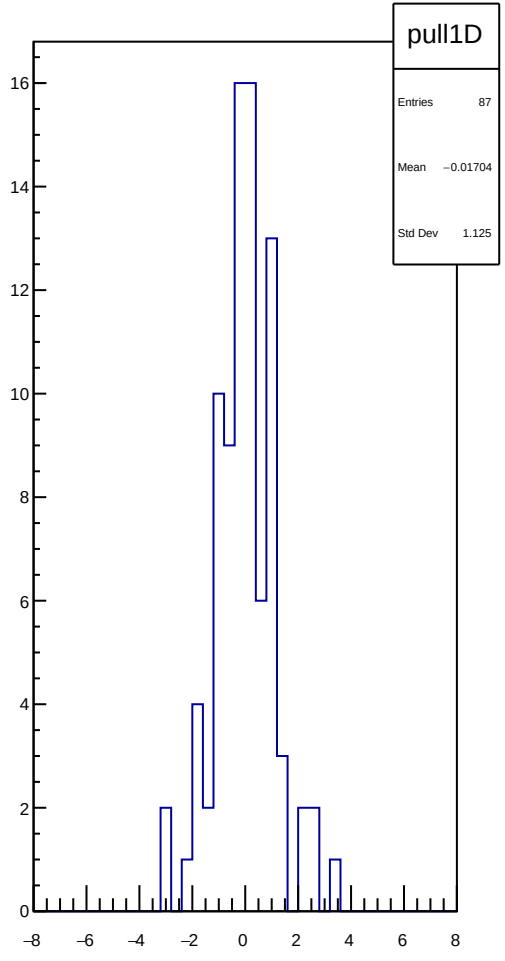

pull1D
Entries 87
Mean −0.01376
Std Dev 1.093

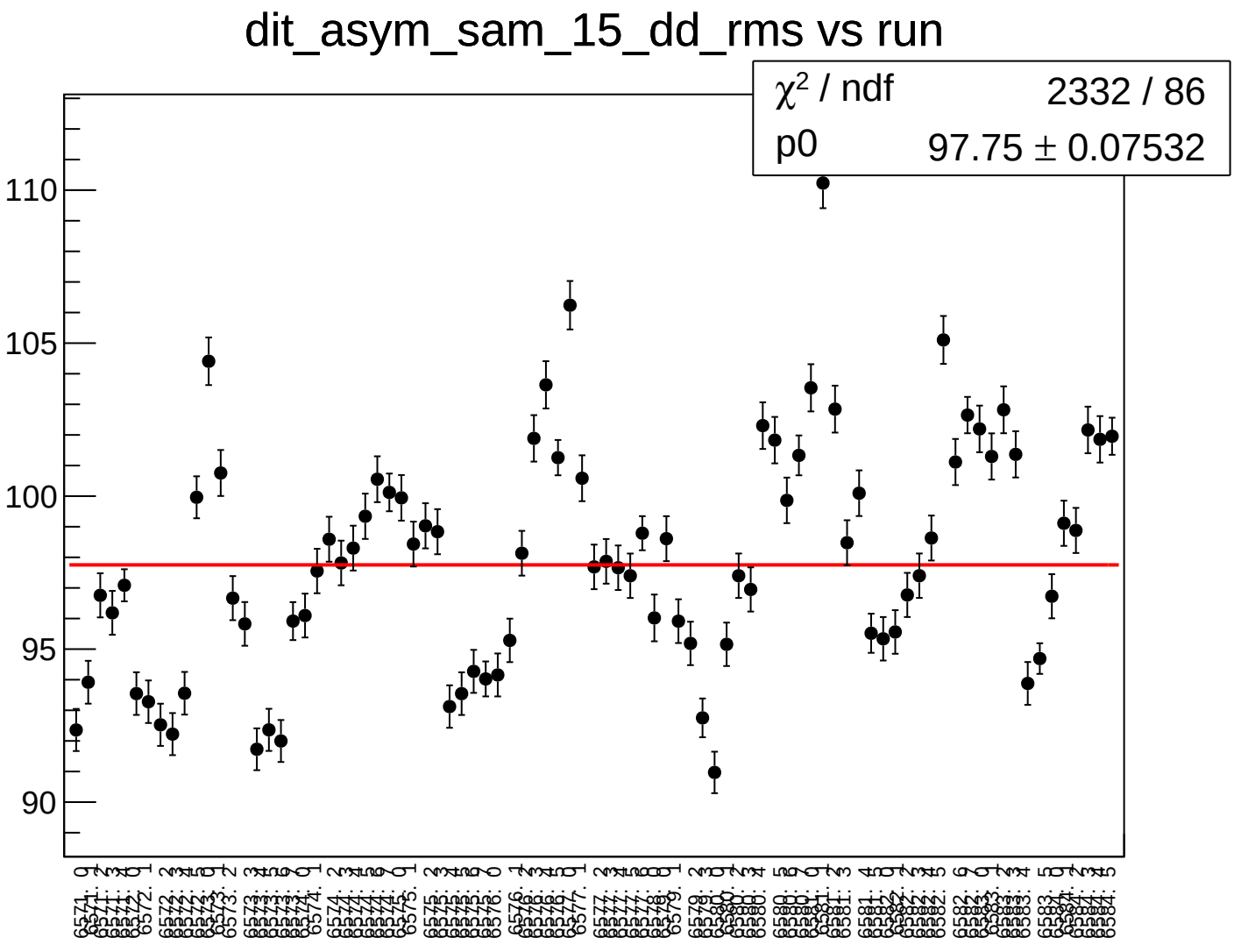

eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 2572 / 86
p0 91.31 ± 0.07036
102
100
98
96
94
92
90
88
86
84
82

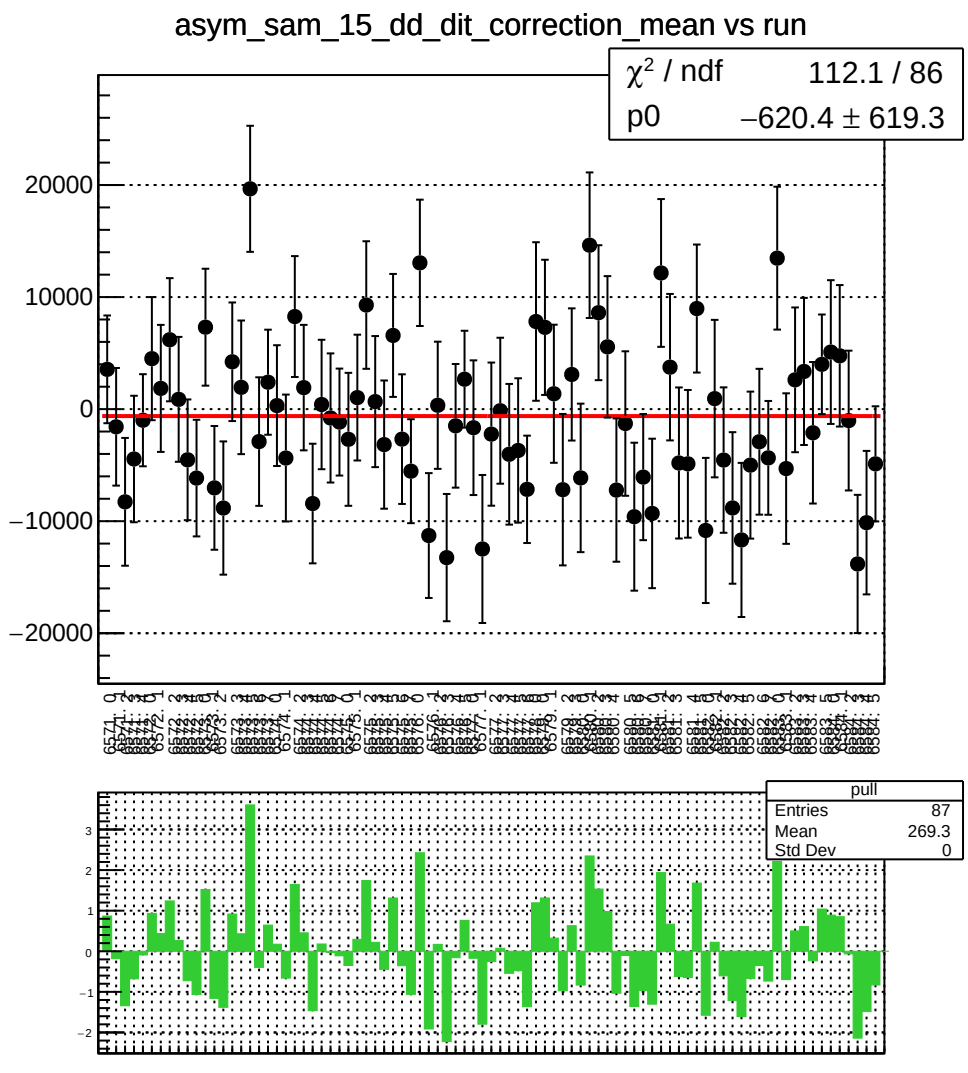

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 113.5 / 86
p0 −633 ± 598.5
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 247.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01493
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

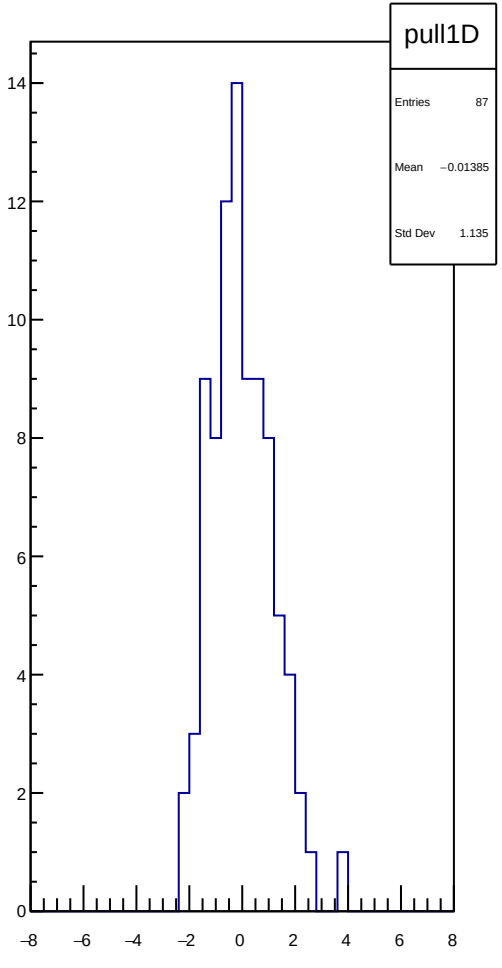

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.146e+04 / 86
p0 547.8 ± 0.4232
650
600
550
500
450

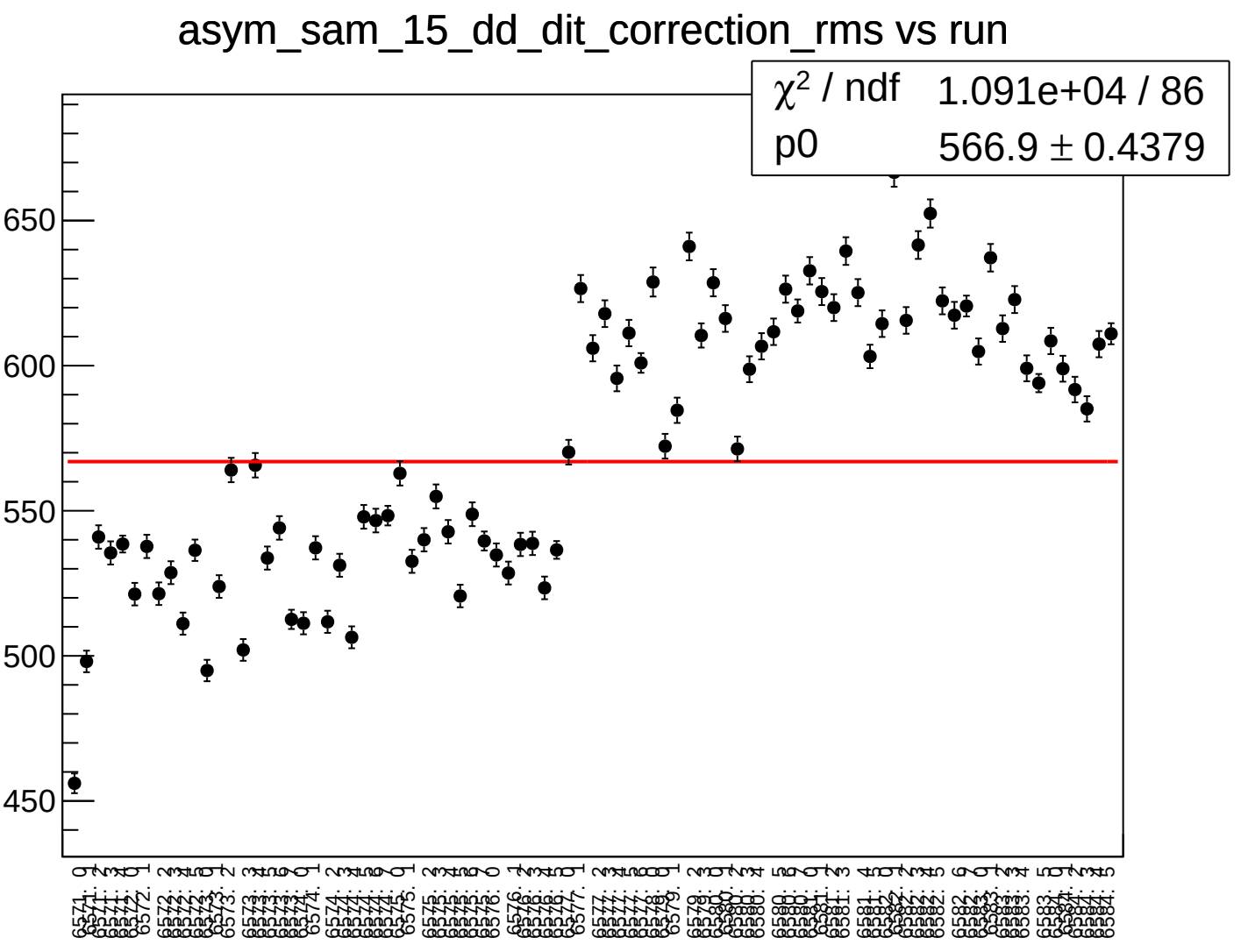

dit_asym_sam_15_dd_mean vs run
χ² / ndf 110.1 / 86
p0 −242.6 ± 106.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 171.9
Std Dev 0
3
2
1
0
−1
−2
−3

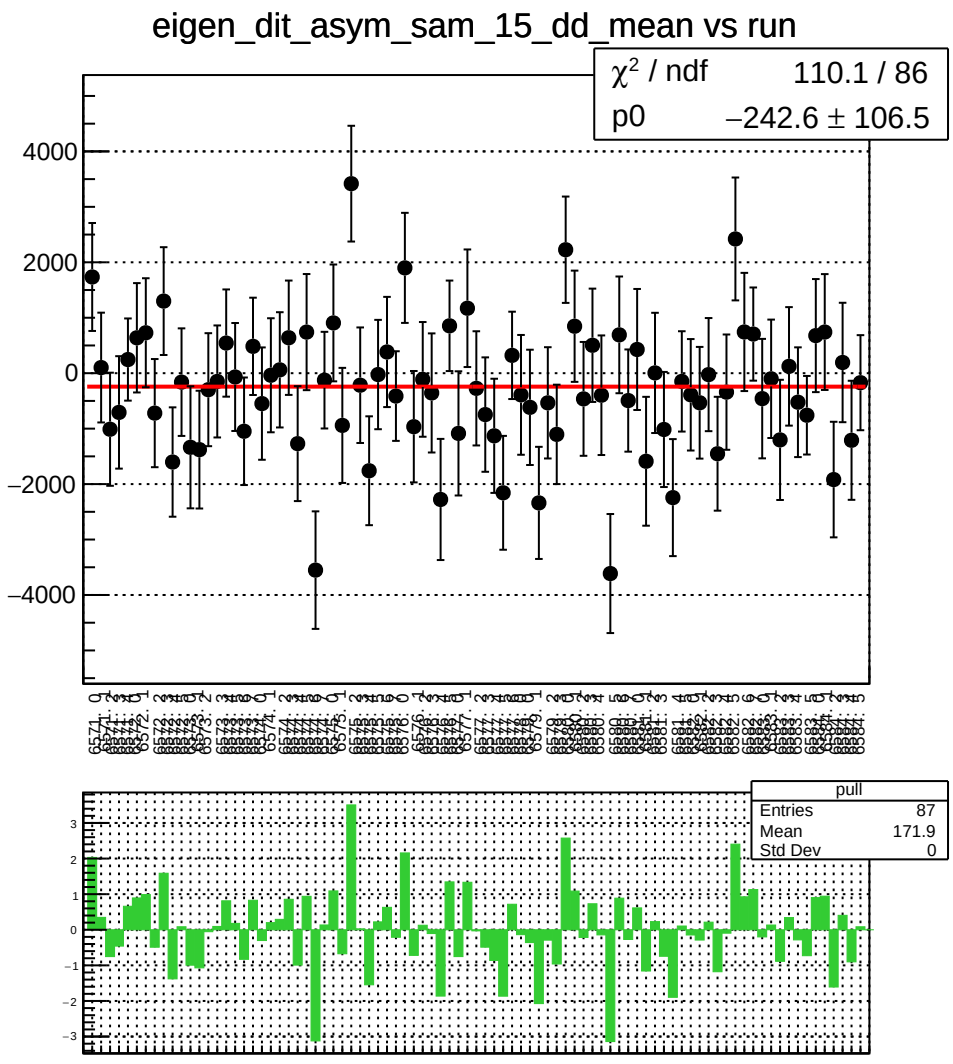

pull1D
Entries 87
Mean −0.01704
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

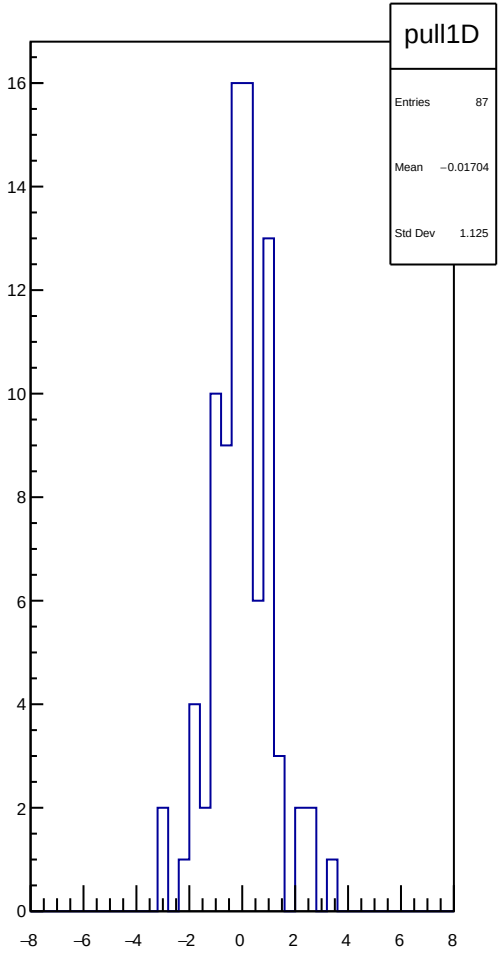

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 2332 / 86
p0 97.75 ± 0.07532
110
105
100
95
90

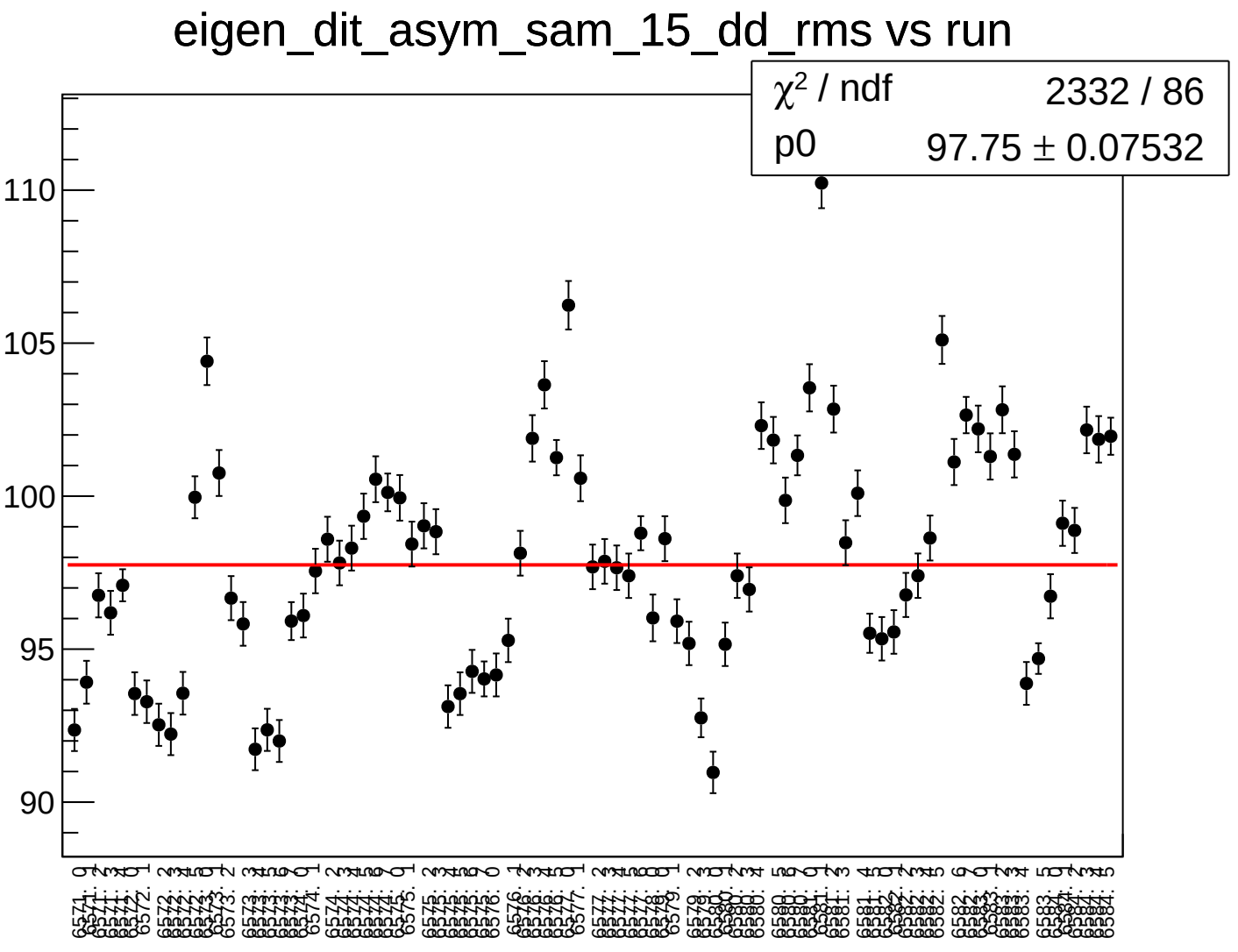

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 112.1 / 86
p0 −620.4 ± 619.3
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 269.3
Std Dev 0
3
2
1
0
−1
−2

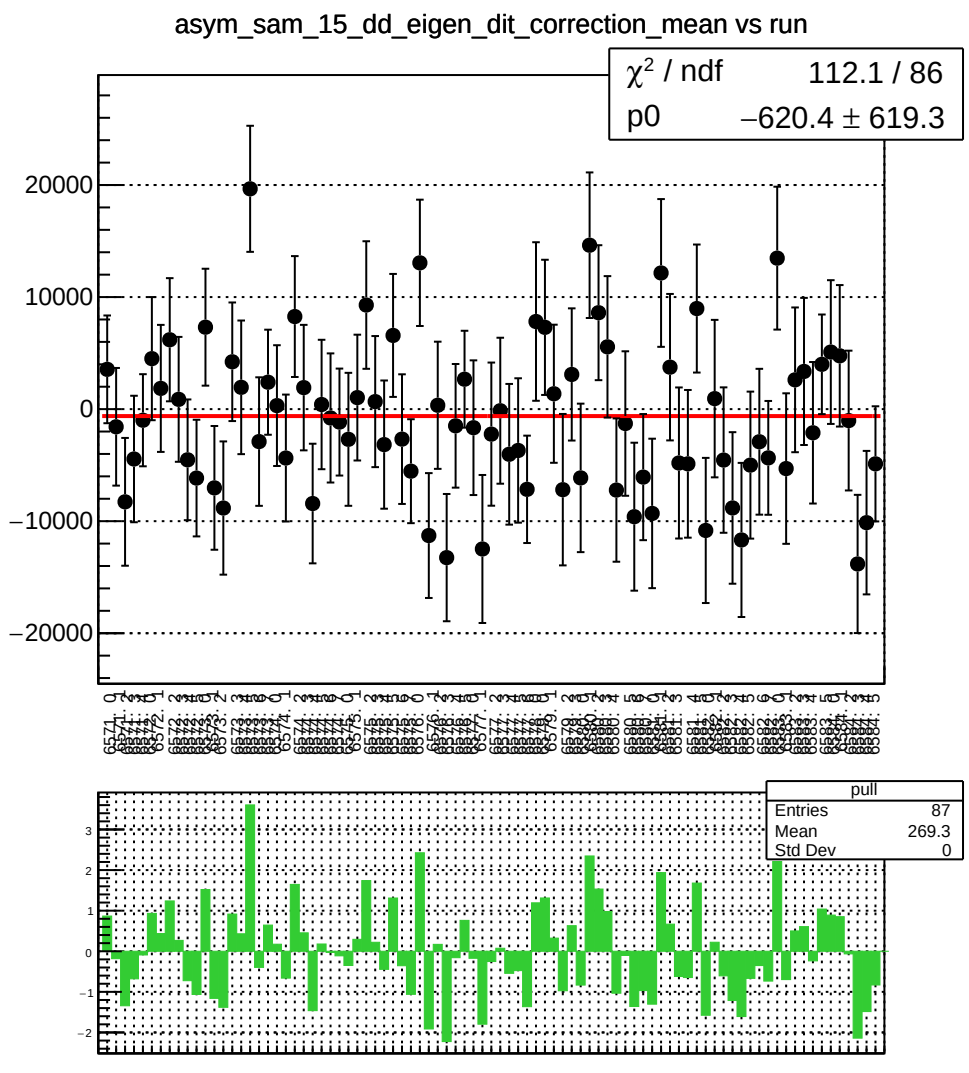

pull1D
Entries 87
Mean −0.01385
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

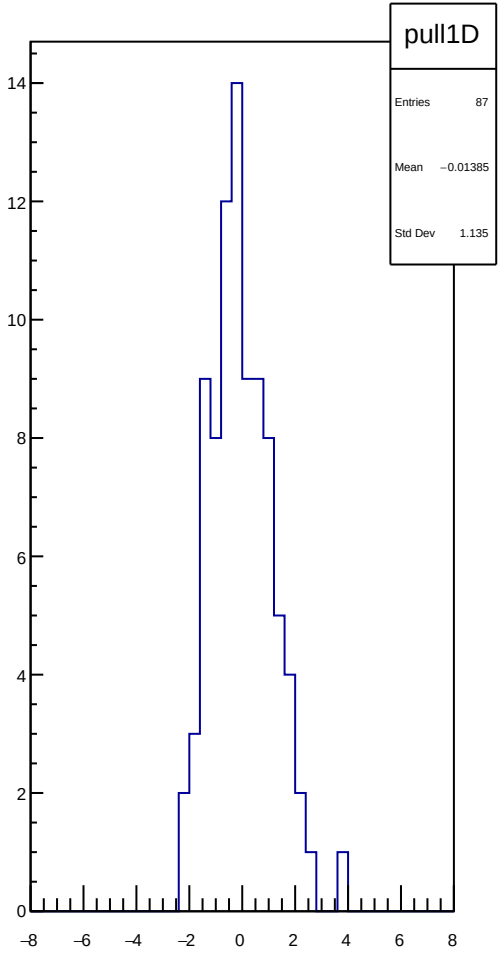

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1.091e+04 / 86
p0 566.9 ± 0.4379
650
600
550
500
450

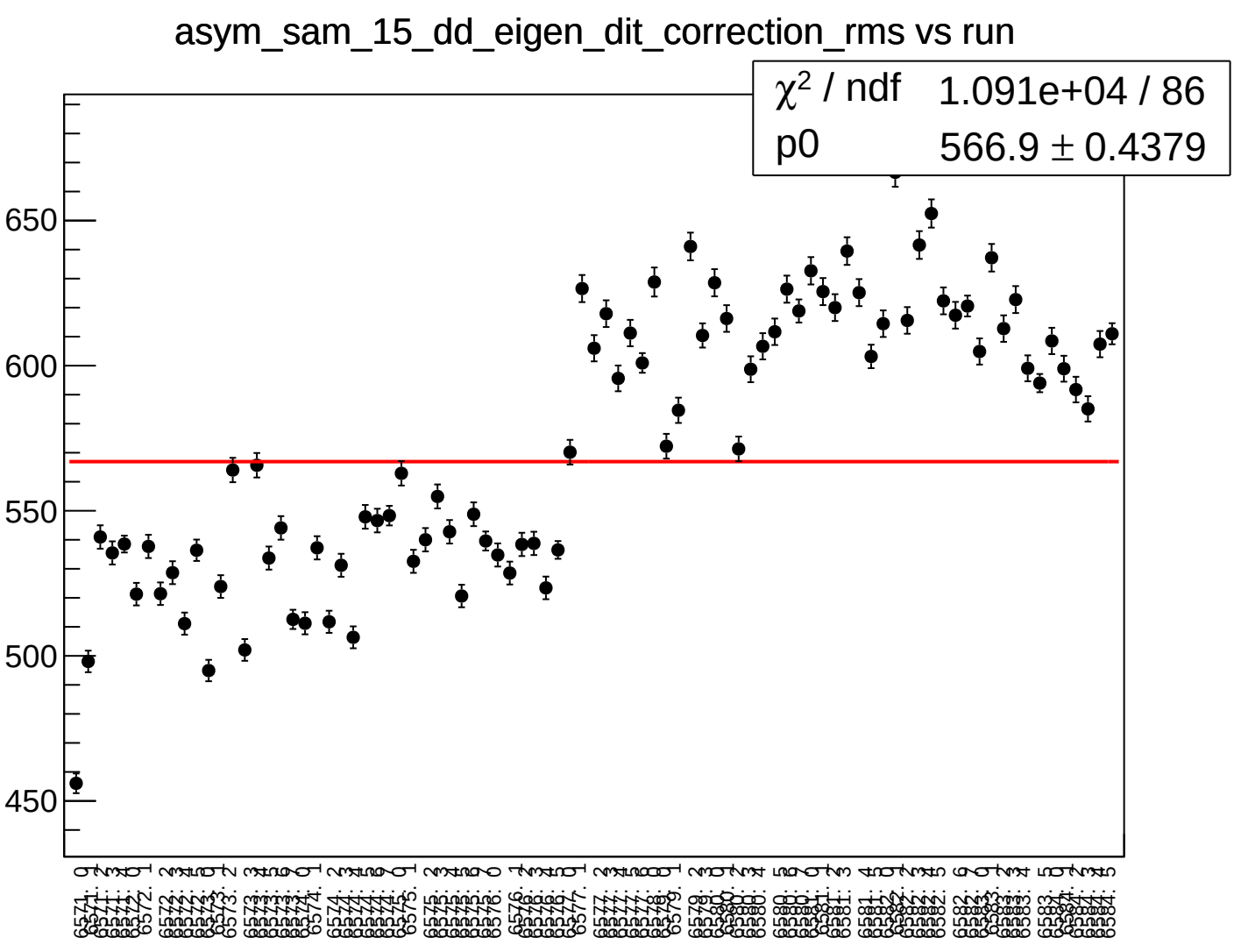

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 110.1 / 86
p0 −242.6 ± 106.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 171.9
Std Dev 0
3
2
1
0
−1
−2
−3

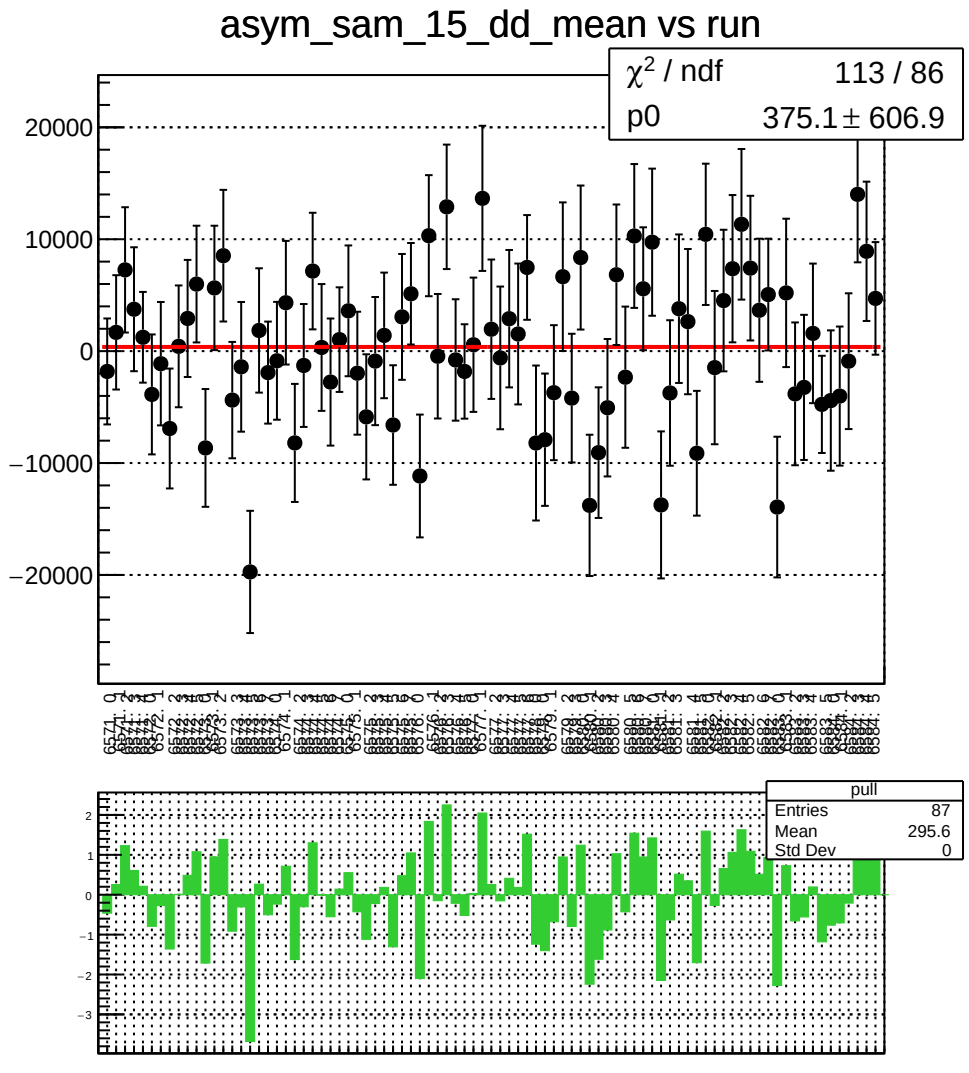

pull1D
Entries 87
Mean −0.01704
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

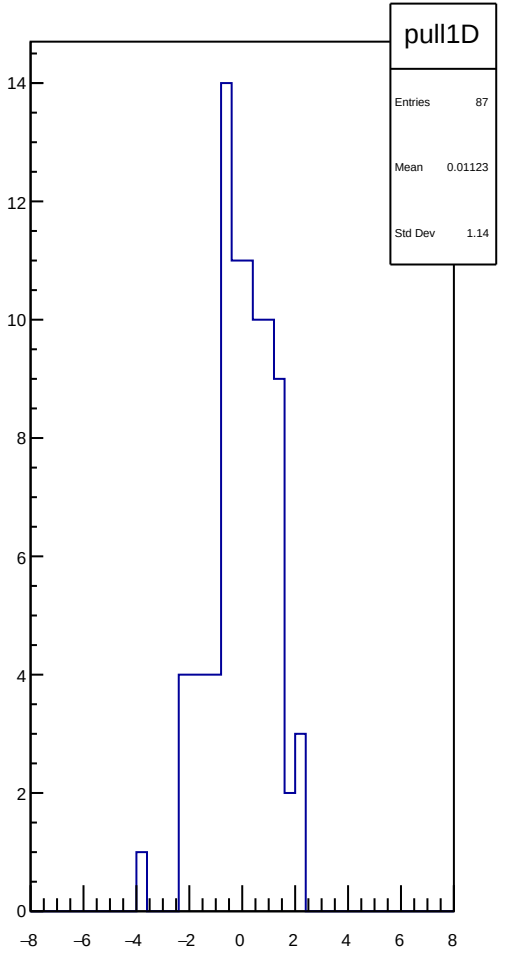

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 2332 / 86
p0 97.75 ± 0.07532
110
105
100
95
90

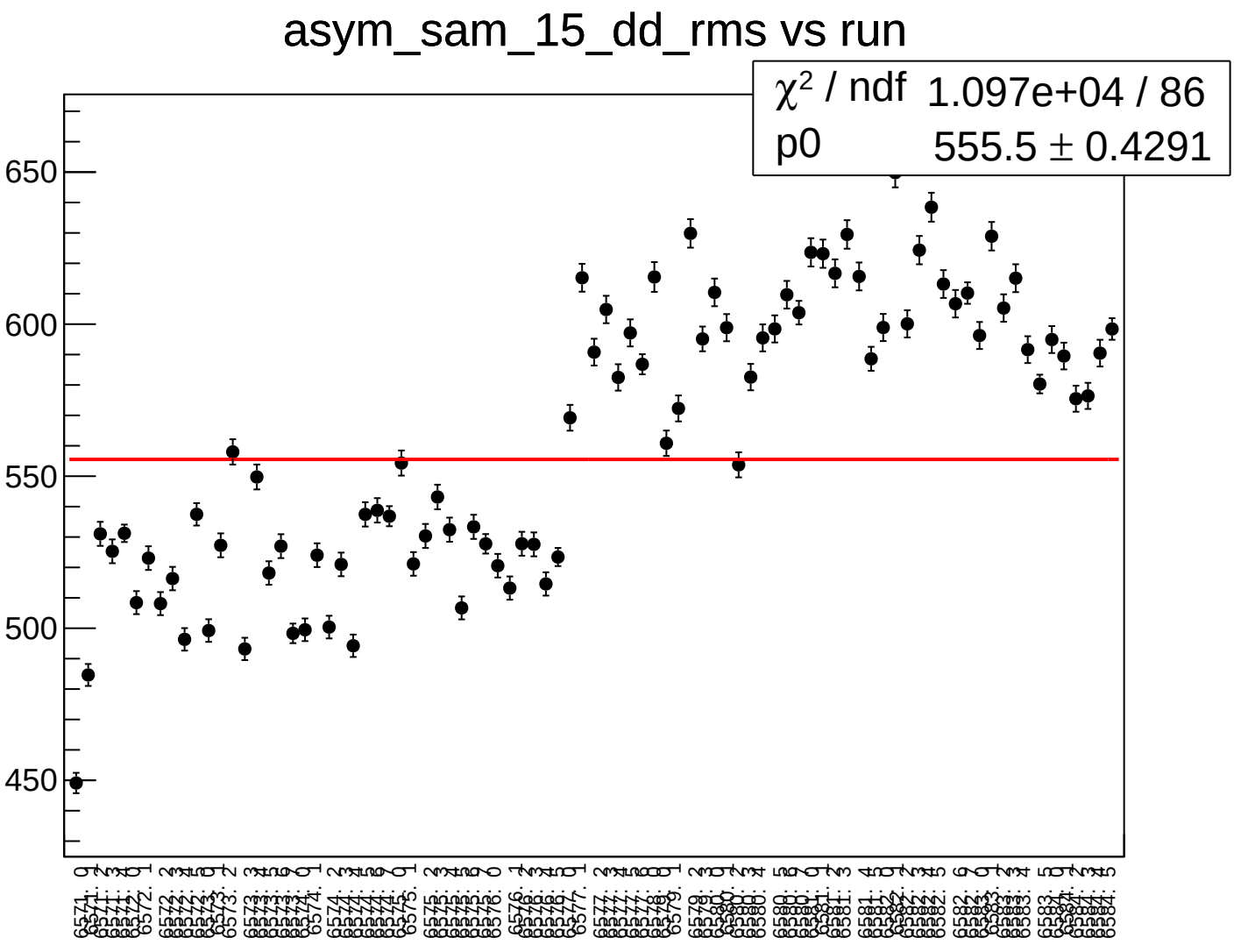

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.1 / 86
p0 −620.4 ± 619.3
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 269.3
Std Dev 0
3
2
1
0
−1
−2

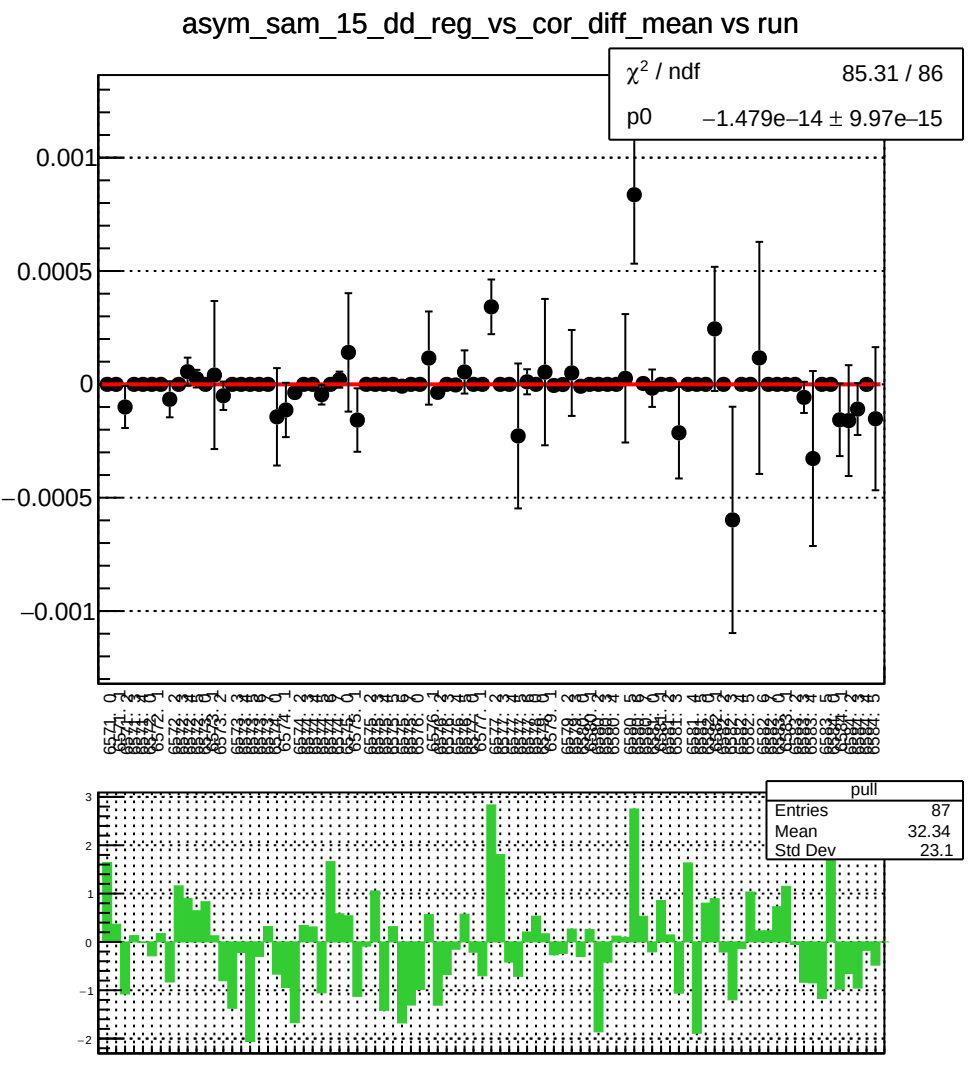

pull1D
Entries 87
Mean −0.01385
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

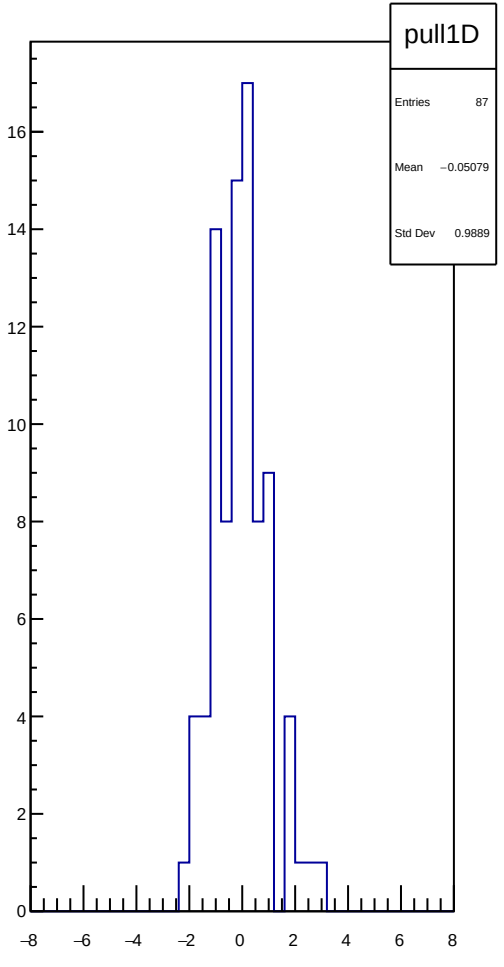

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.091e+04 / 86
p0 566.9 ± 0.4379
650
600
550
500
450

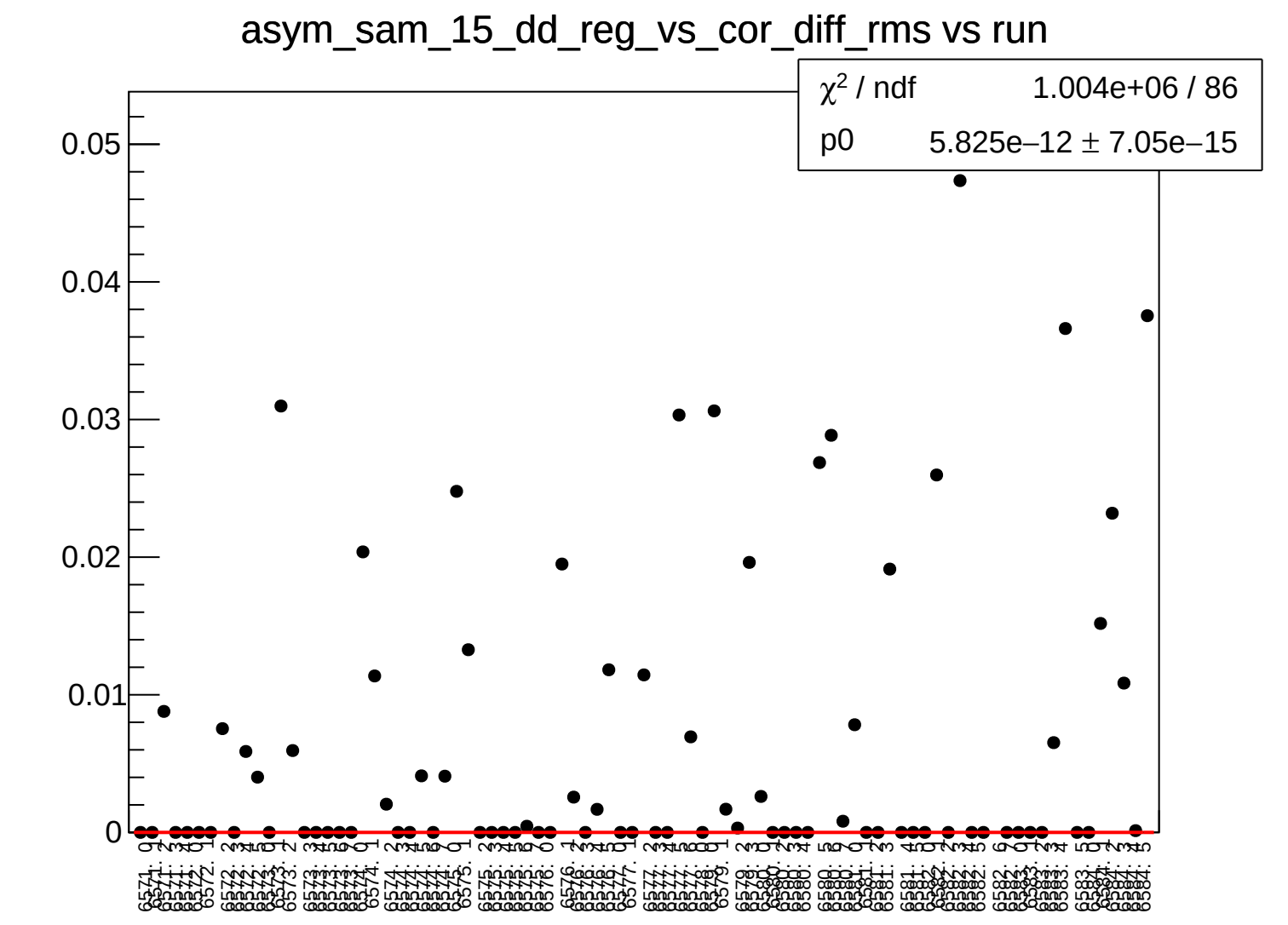

asym_sam_15_dd_mean vs run
χ² / ndf 113 / 86
p0 375.1 ± 606.9
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 295.6
Std Dev 0
2
1
0
−1
−2
−3

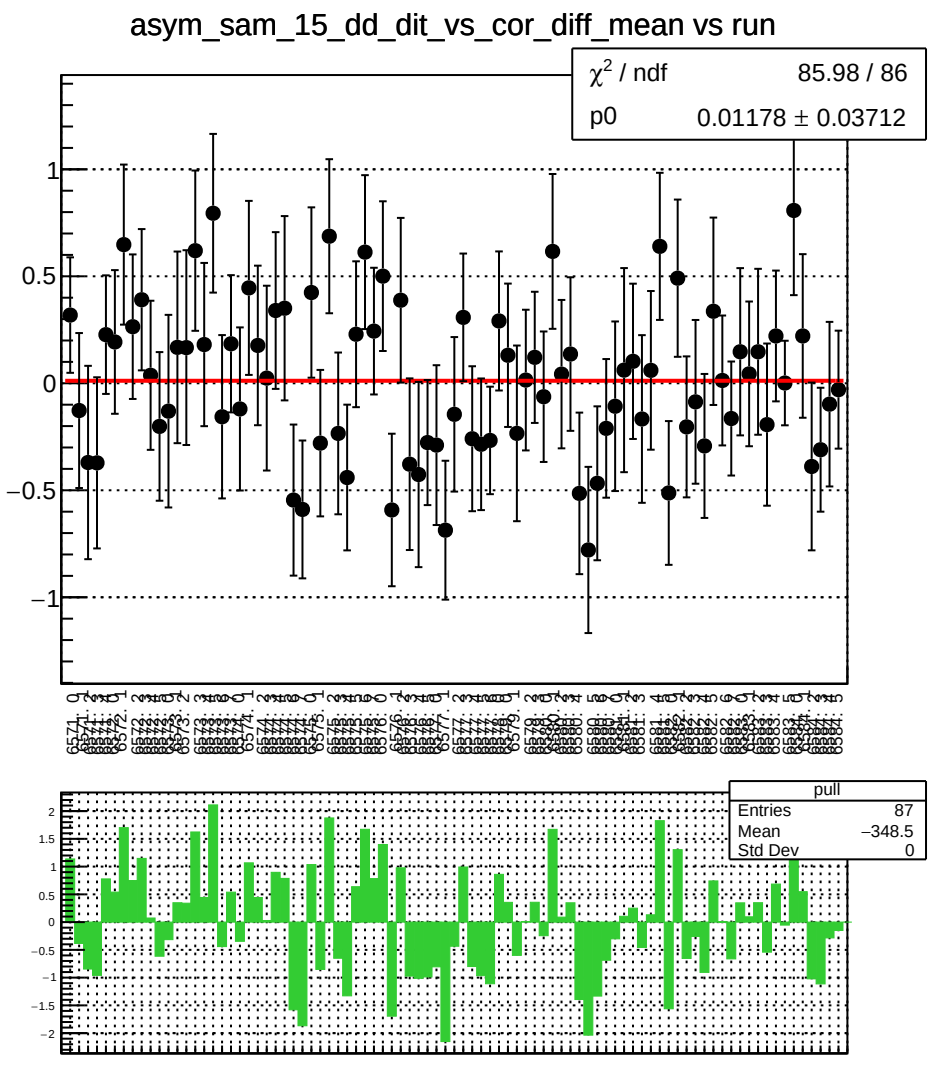

pull1D
Entries 87
Mean 0.01123
Std Dev 1.14
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

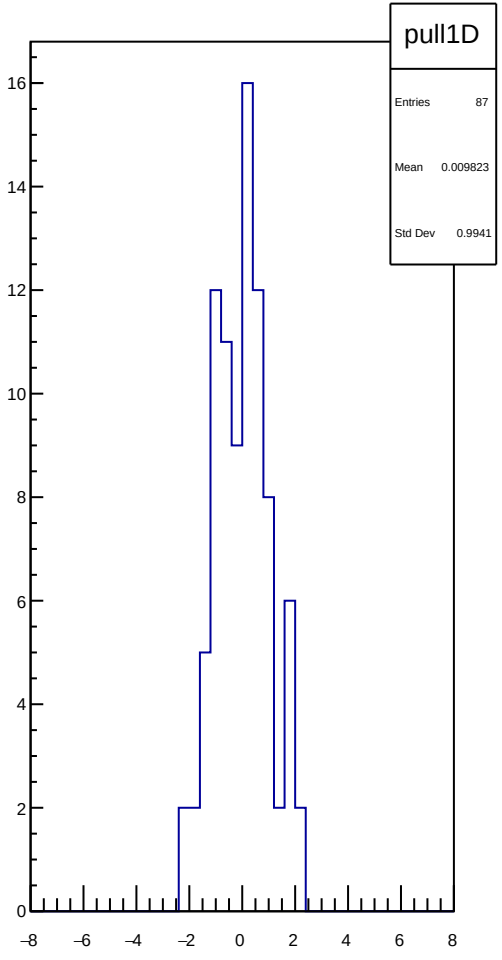

asym_sam_15_dd_rms vs run
χ² / ndf 1.097e+04 / 86
p0 555.5 ± 0.4291
650
600
550
500
450

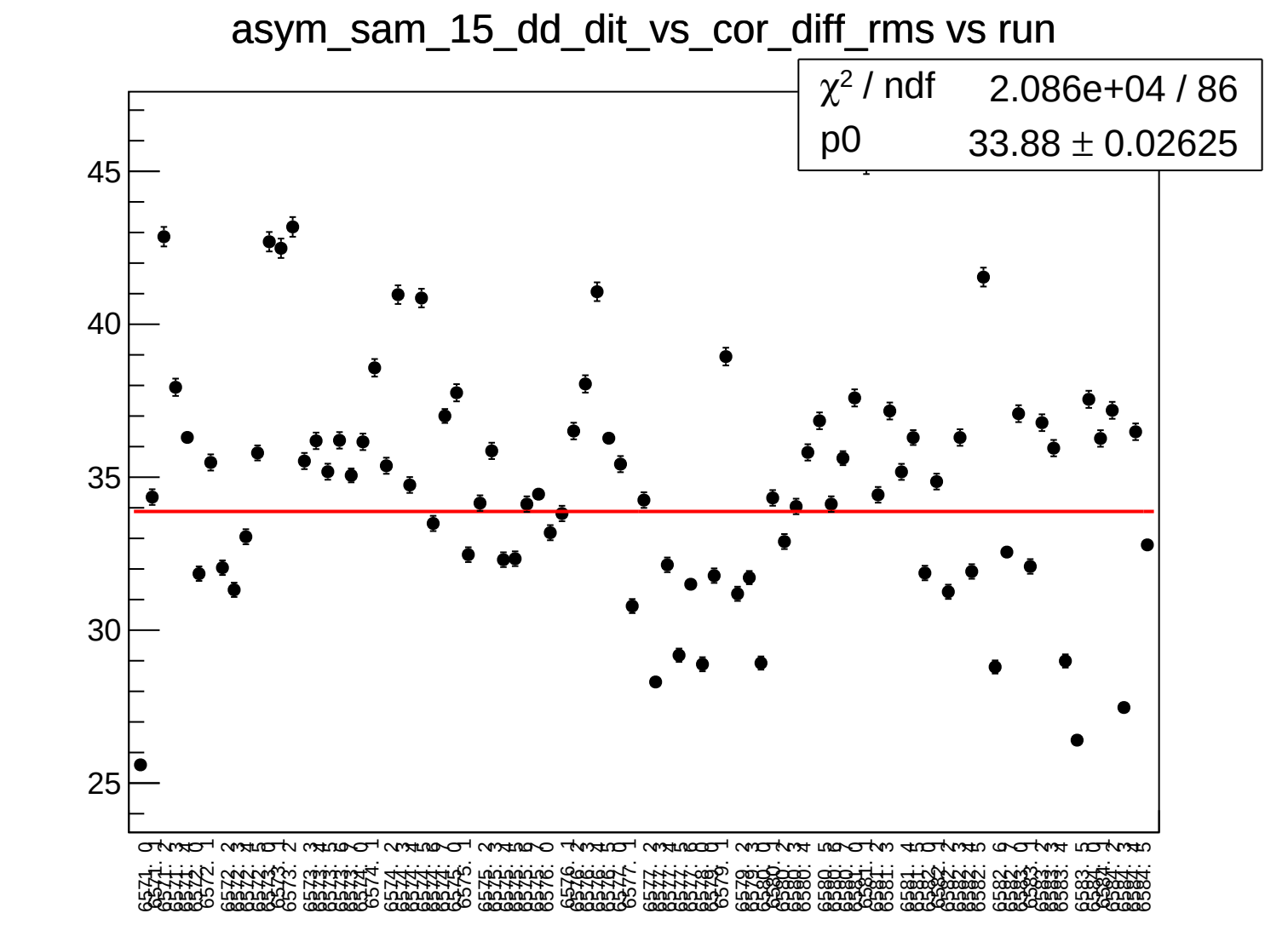

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.31 / 86
p0 −1.479e−14 ± 9.97e−15
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 32.34
Std Dev 23.1
3
2
1
0
−1
−2

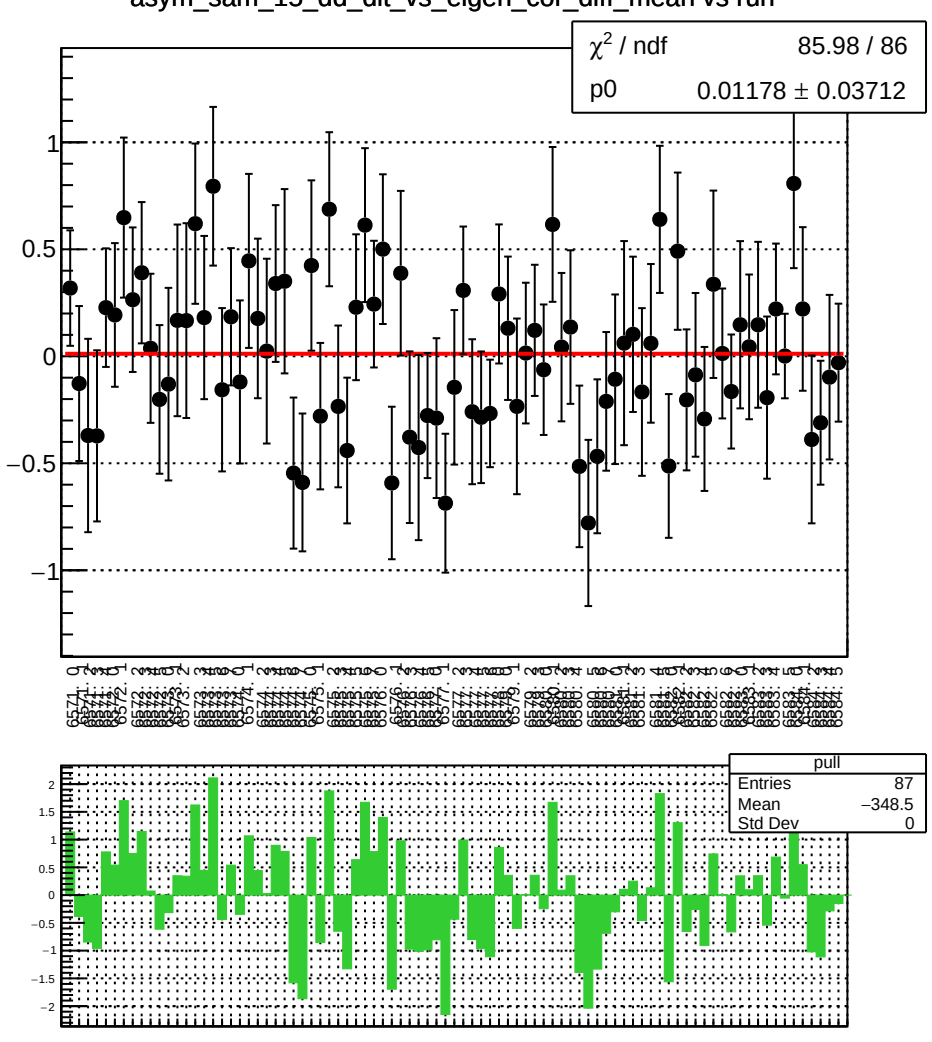

pull1D
Entries 87
Mean −0.05079
Std Dev 0.9889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

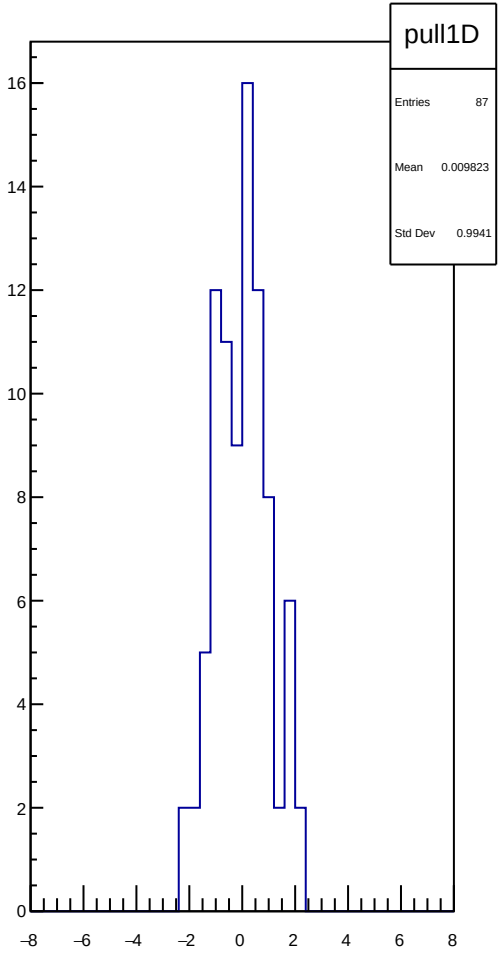

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.004e+06 / 86
p0 5.825e−12 ± 7.05e−15
0.05
0.04
0.03
0.02
0.01
0

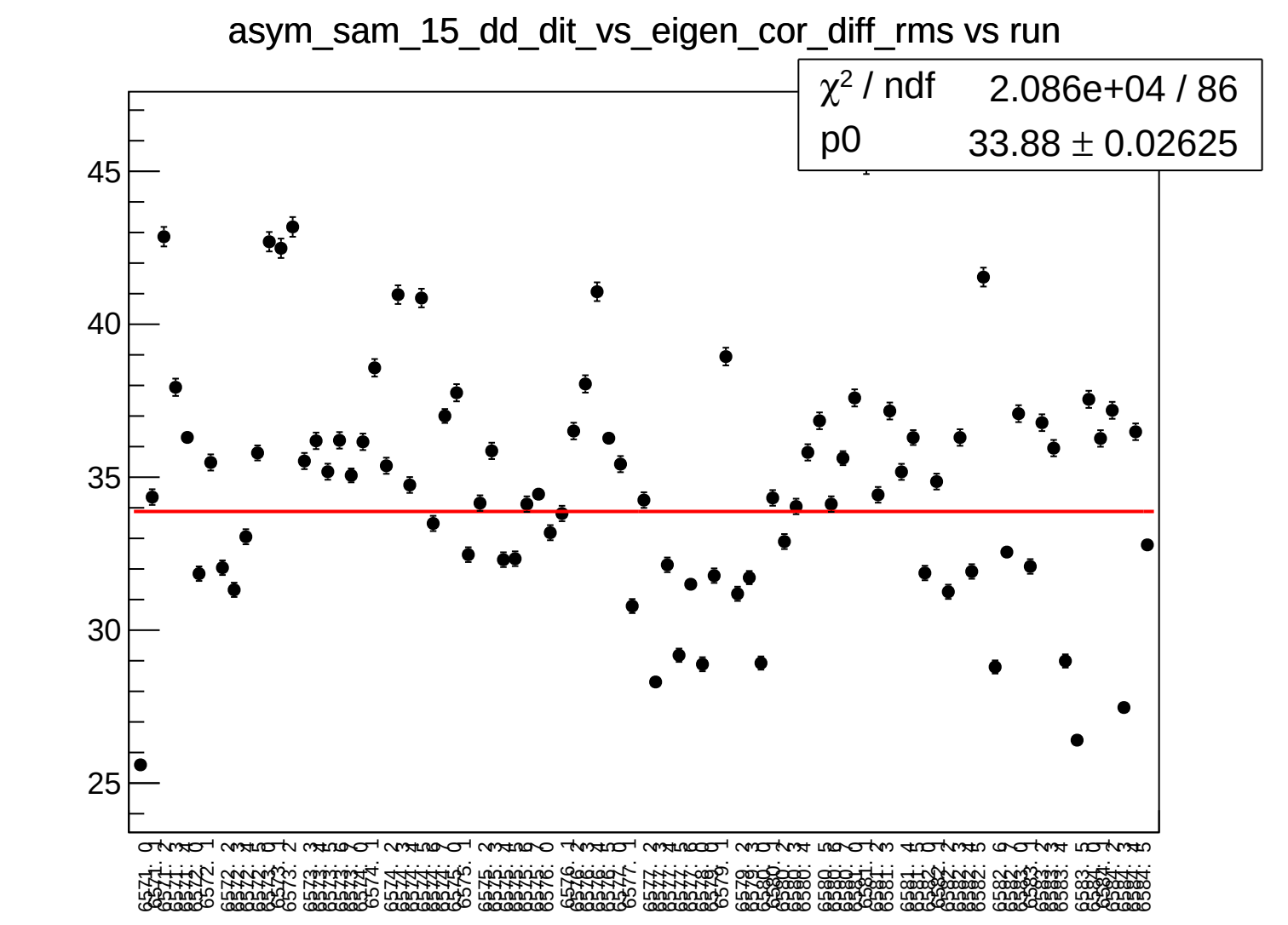

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.98 / 86
p0 0.01178 ± 0.03712
pull
Entries 87
Mean −348.5
Std Dev 0

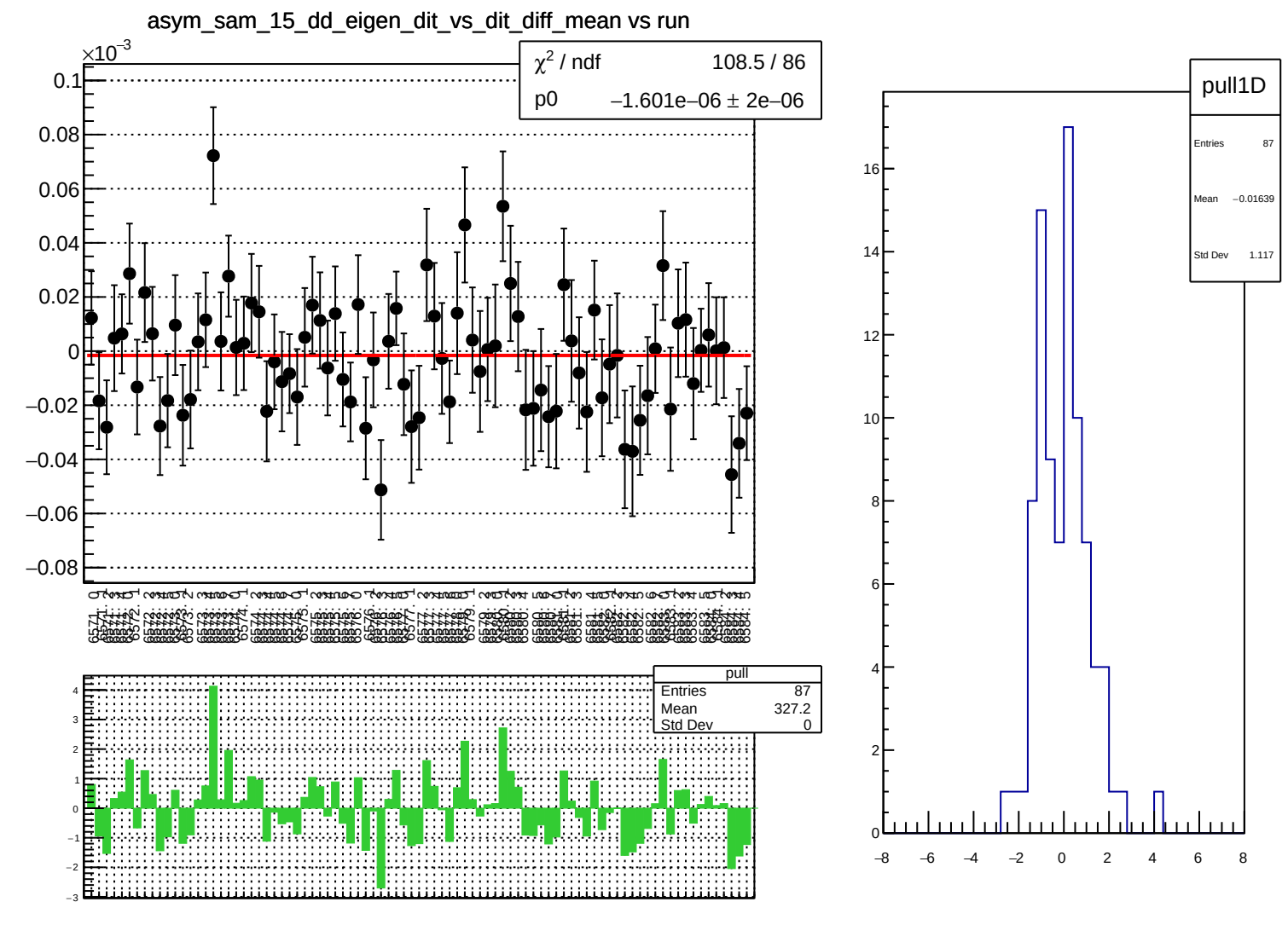

pull1D
Entries 87
Mean 0.009823
Std Dev 0.9941

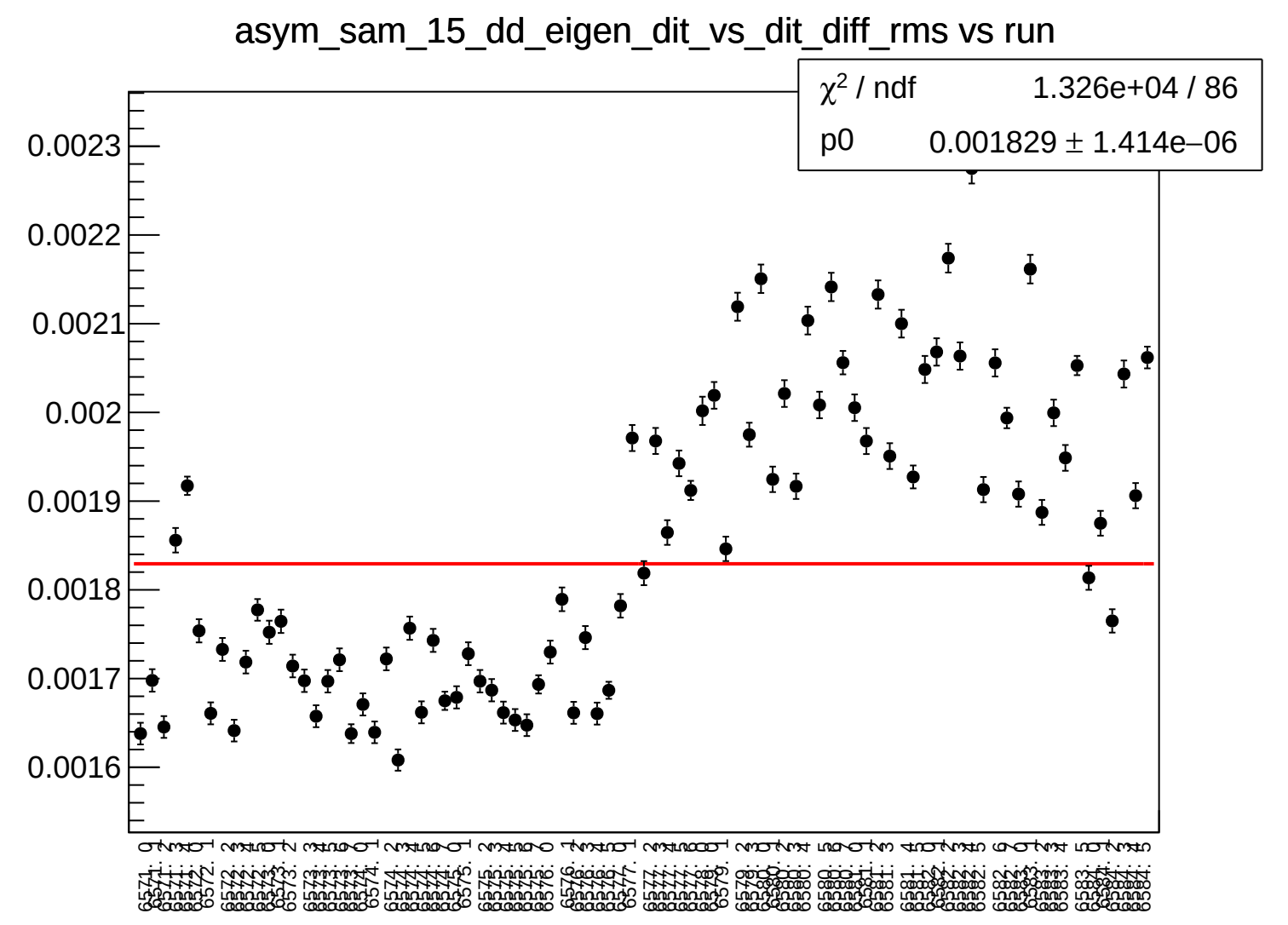

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.086e+04 / 86
p0 33.88 ± 0.02625
45
40
35
30
25

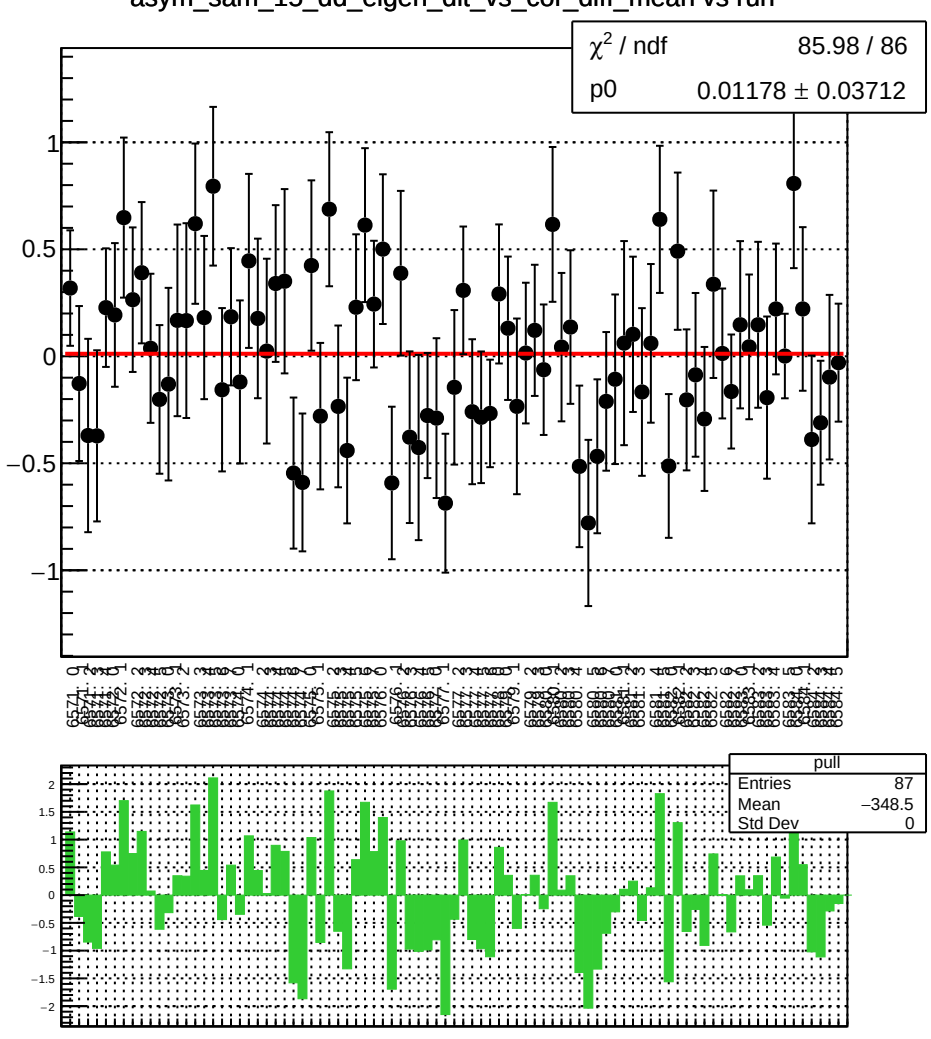

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.98 / 86
p0 0.01178 ± 0.03712
pull
Entries 87
Mean −348.5
Std Dev 0

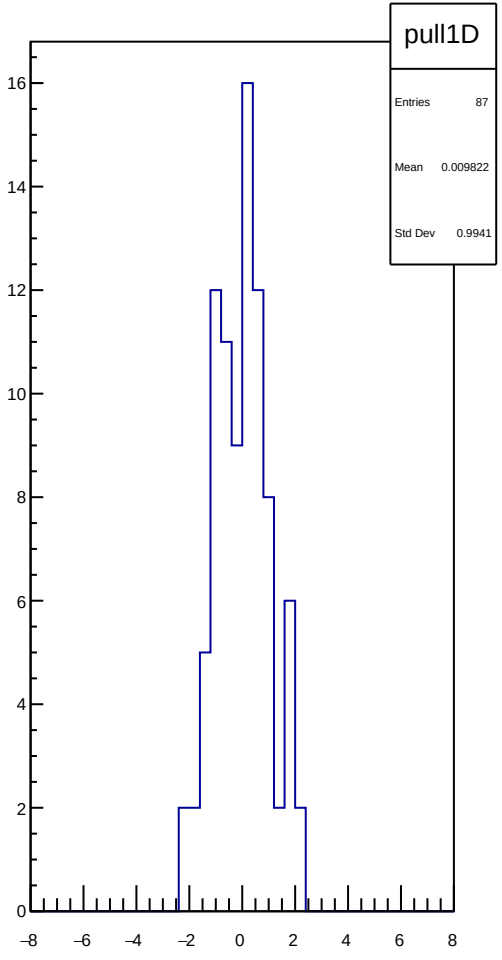

pull1D
Entries 87
Mean 0.009823
Std Dev 0.9941

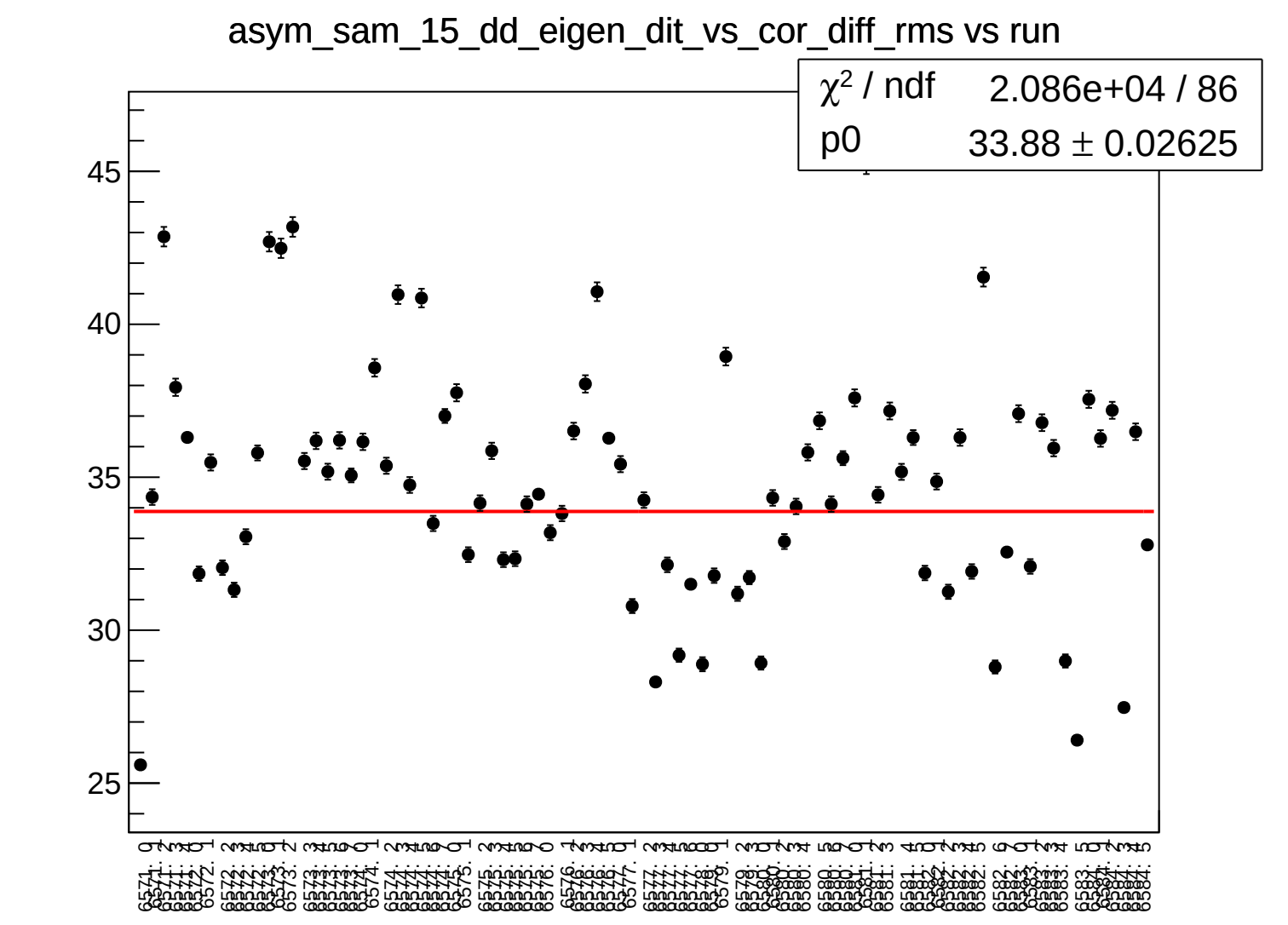

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.086e+04 / 86
p0 33.88 ± 0.02625
45
40
35
30
25

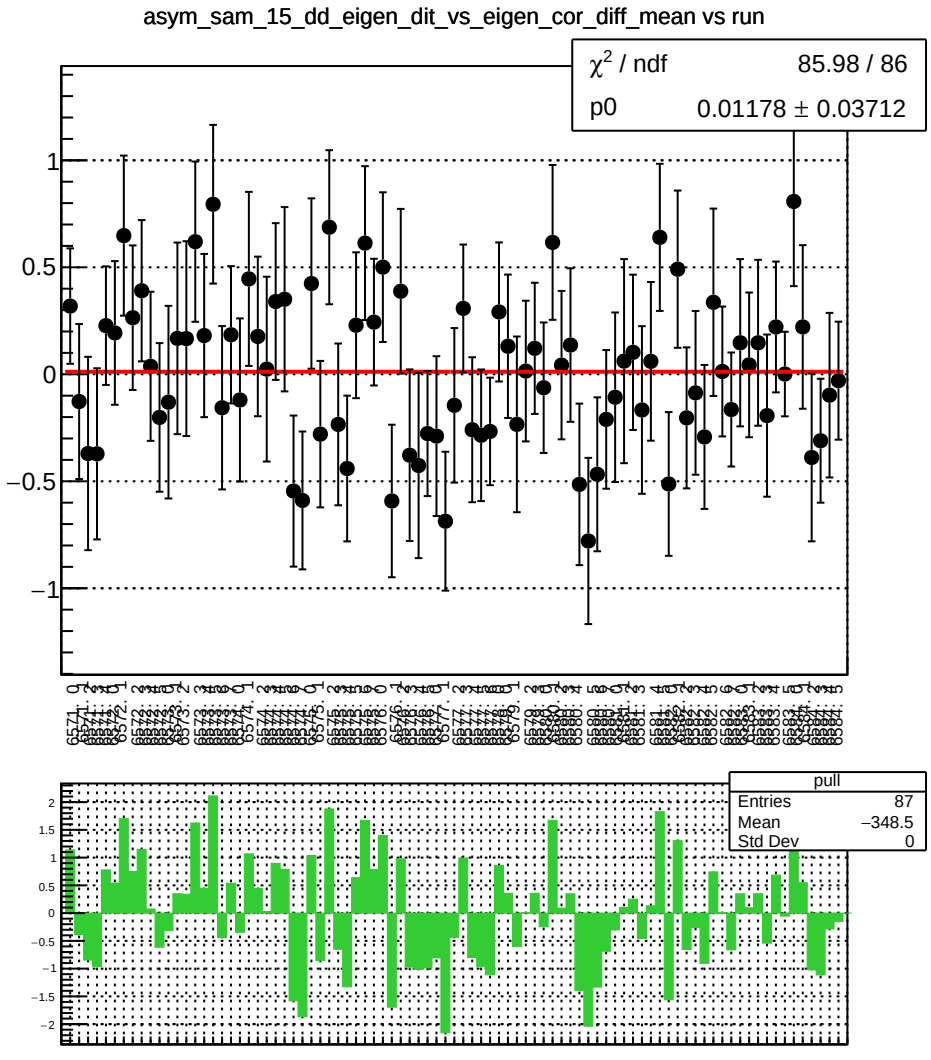

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 108.5 / 86
p0 −1.601e−06 ± 2e−06
pull
Entries 87
Mean 327.2
Std Dev 0
pull1D
Entries 87
Mean −0.01639
Std Dev 1.117

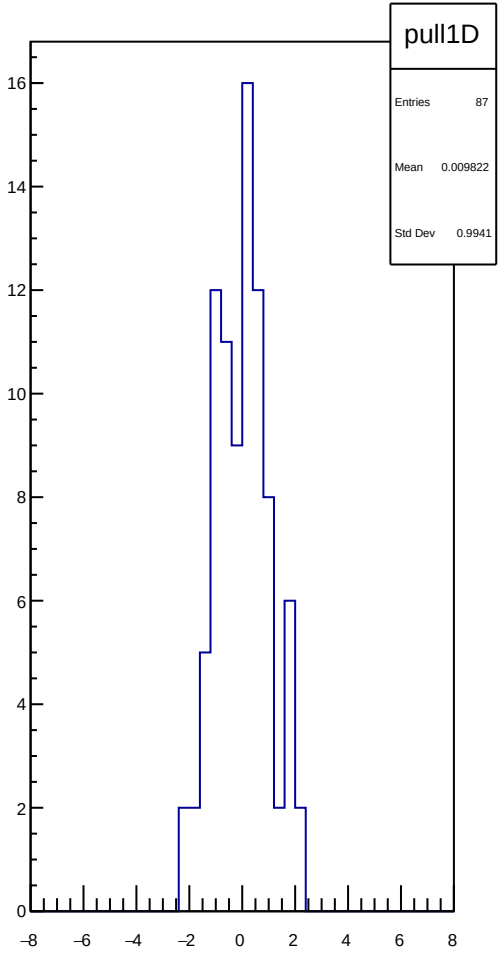

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.326e+04 / 86
p0 0.001829 ± 1.414e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

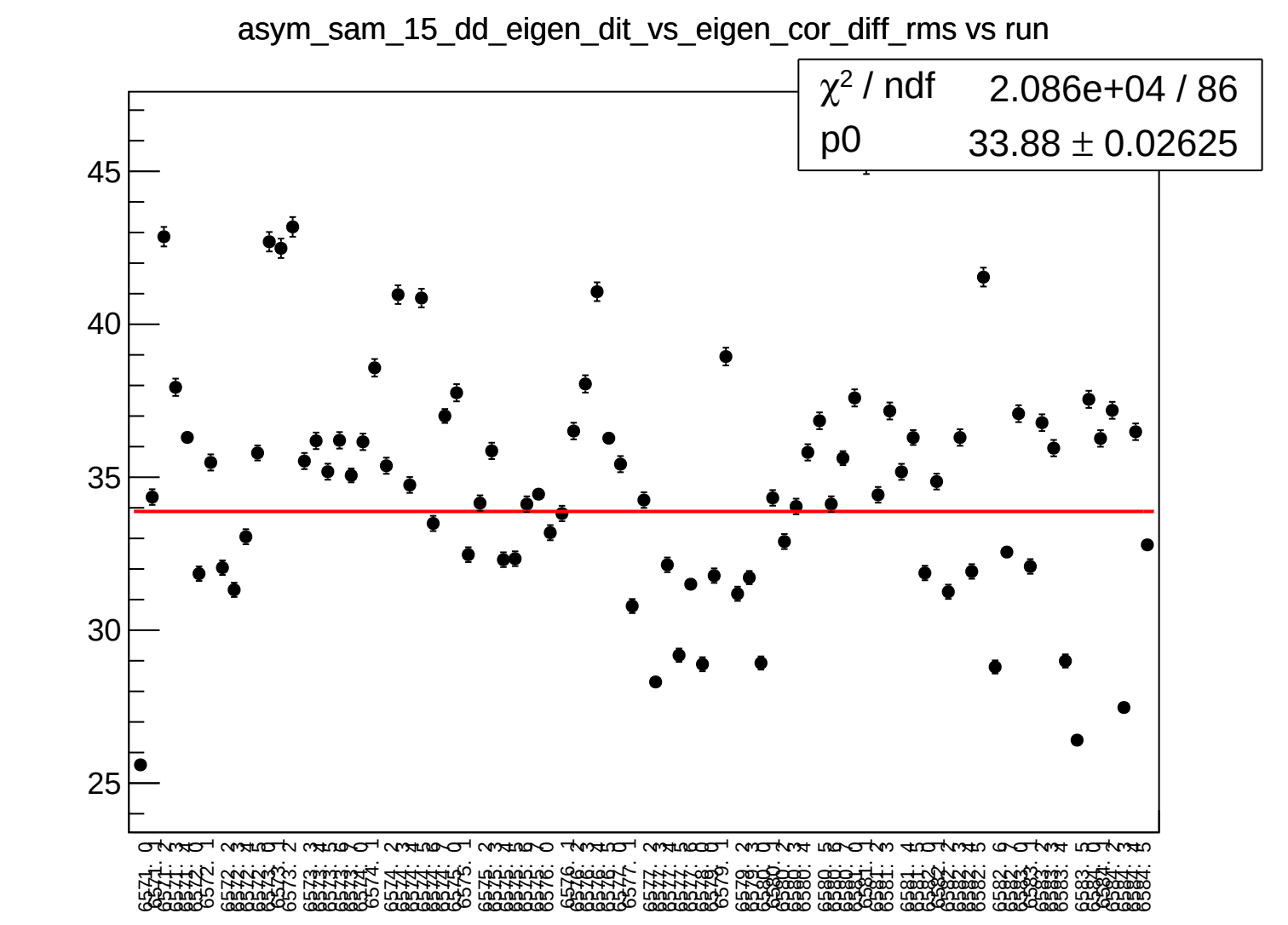

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.98 / 86
p0 0.01178 ± 0.03712
pull
Entries 87
Mean −348.5
Std Dev 0

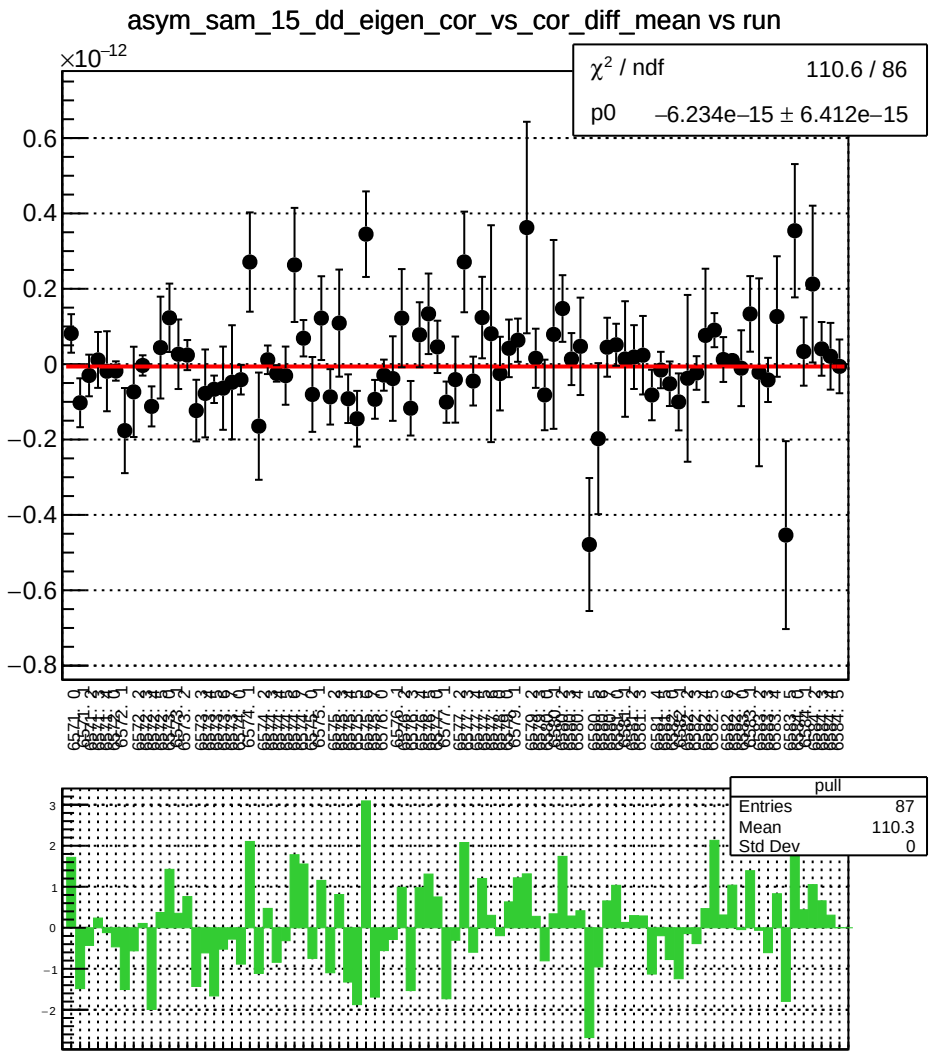

pull1D
Entries 87
Mean 0.009822
Std Dev 0.9941

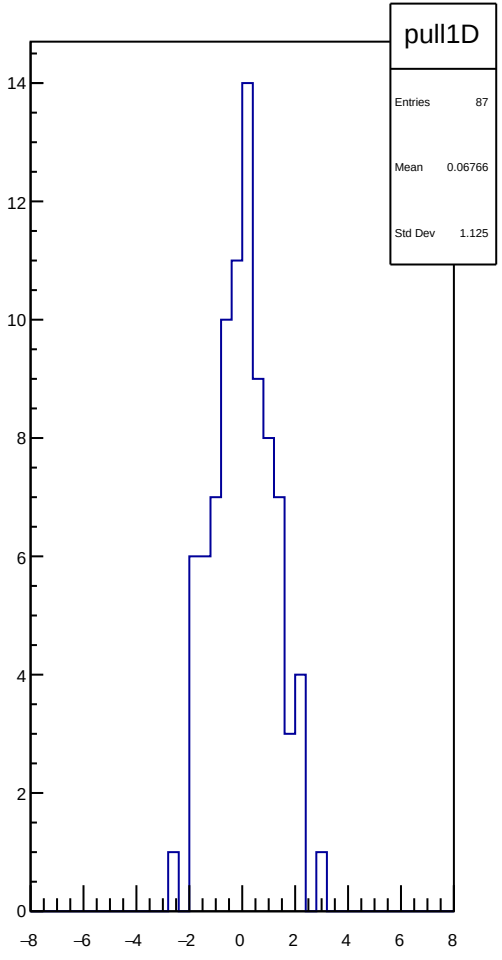

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.086e+04 / 86
p0 33.88 ± 0.02625
45
40
35
30
25

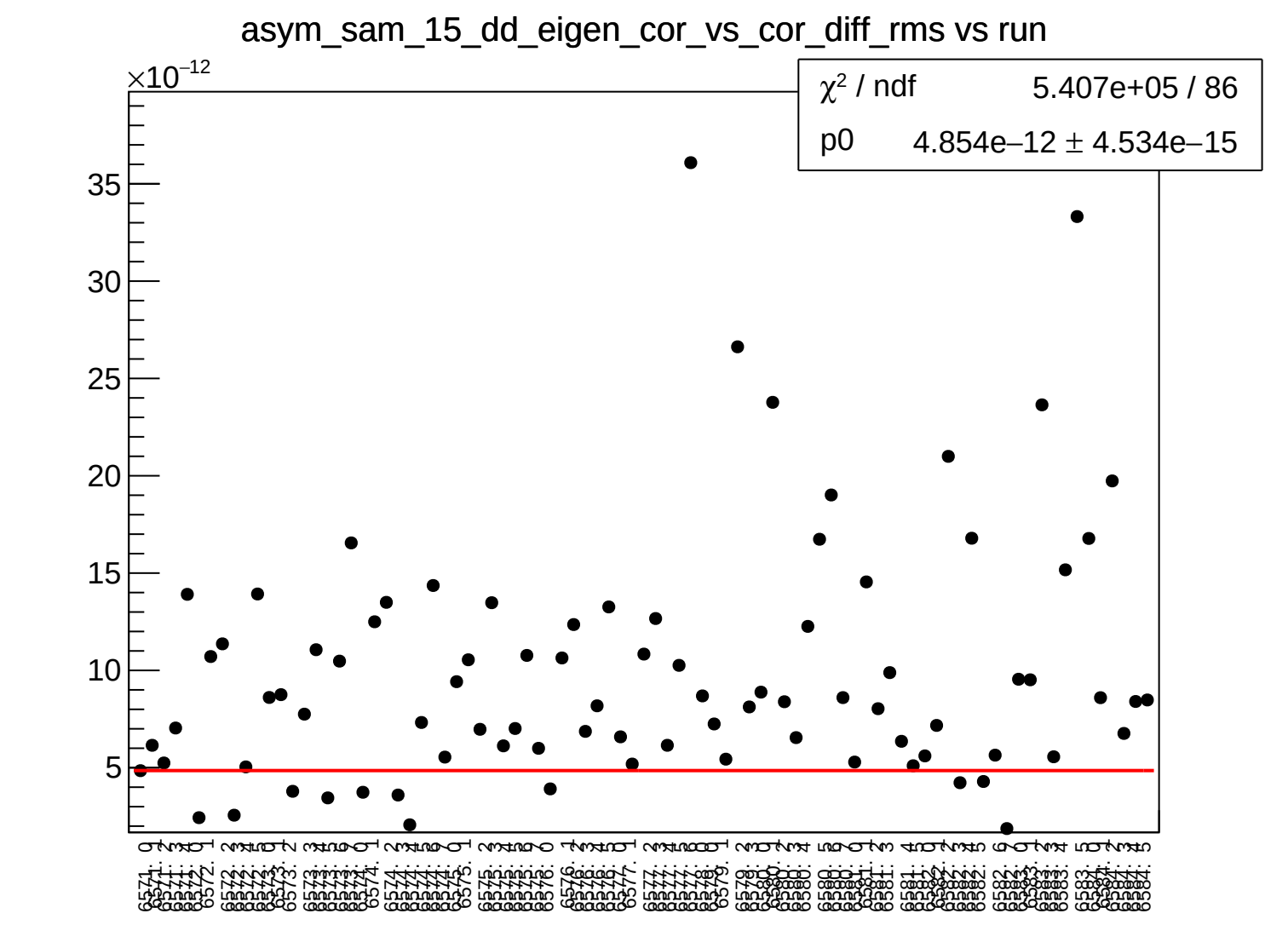

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.98 / 86
p0 0.01178 ± 0.03712
pull
Entries 87
Mean −348.5
Std Dev 0

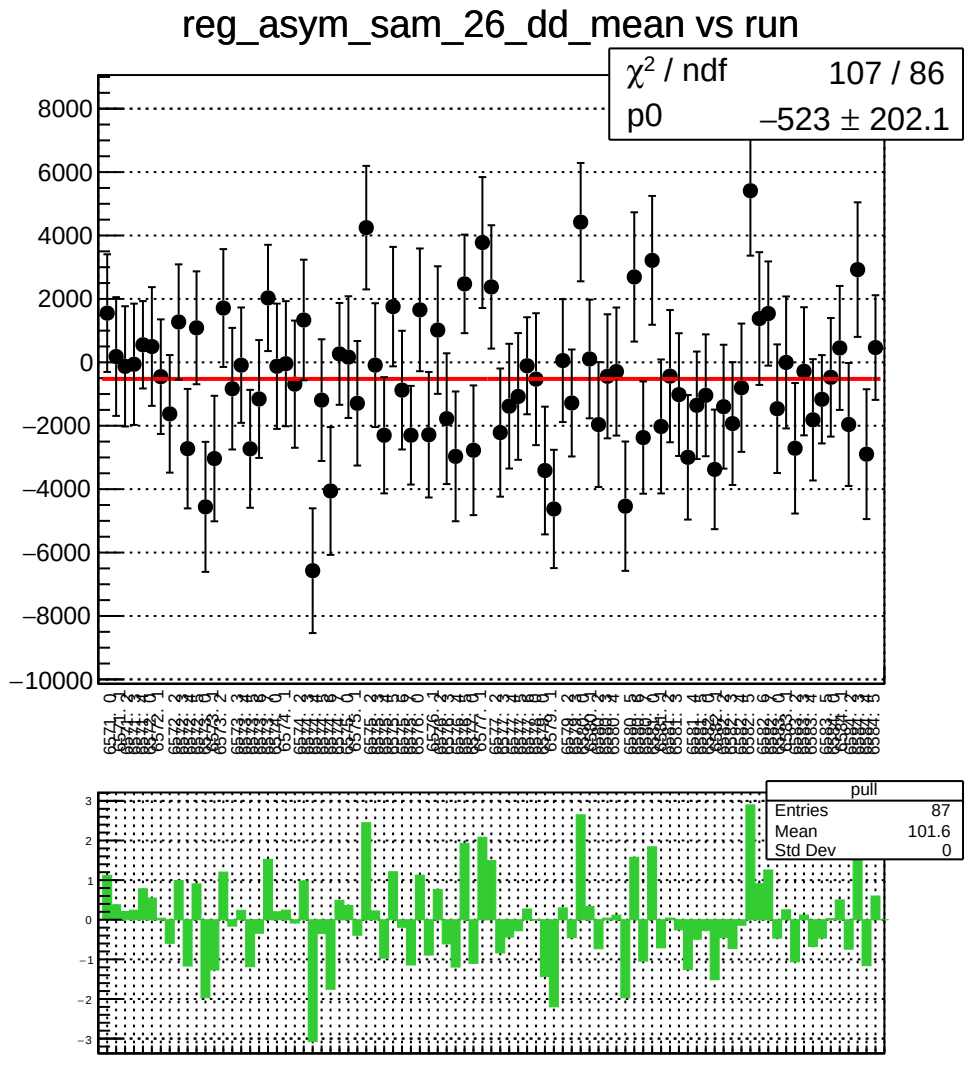

pull1D
Entries 87
Mean 0.009822
Std Dev 0.9941

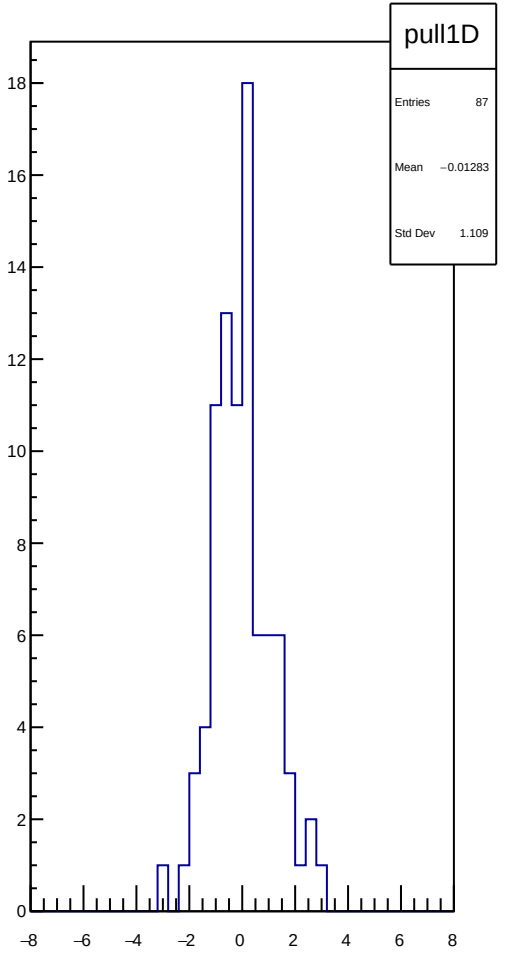

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.086e+04 / 86
p0 33.88 ± 0.02625
45
40
35
30
25

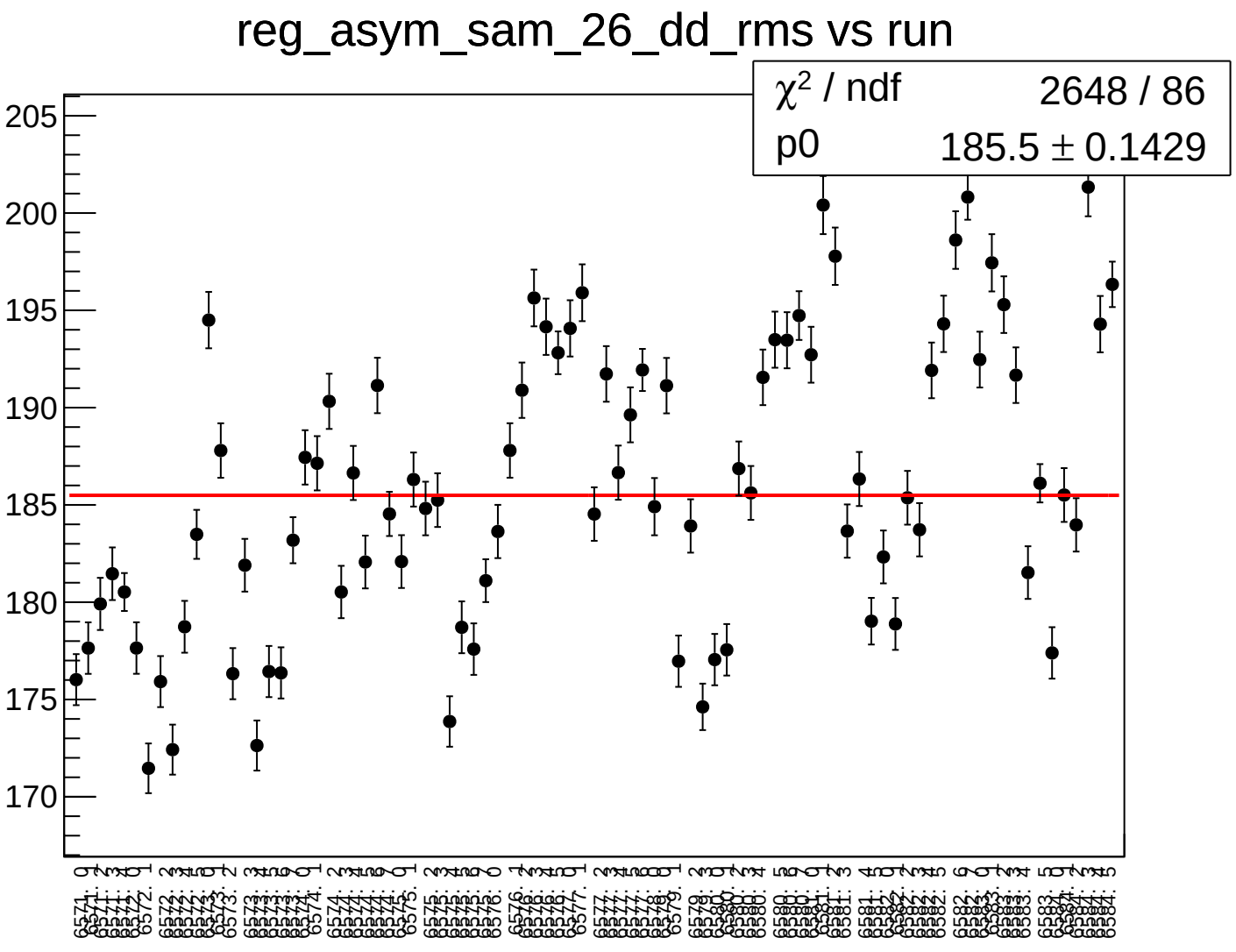

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 110.6 / 86
p0 −6.234e−15 ± 6.412e−15
pull
Entries 87
Mean 110.3
Std Dev 0

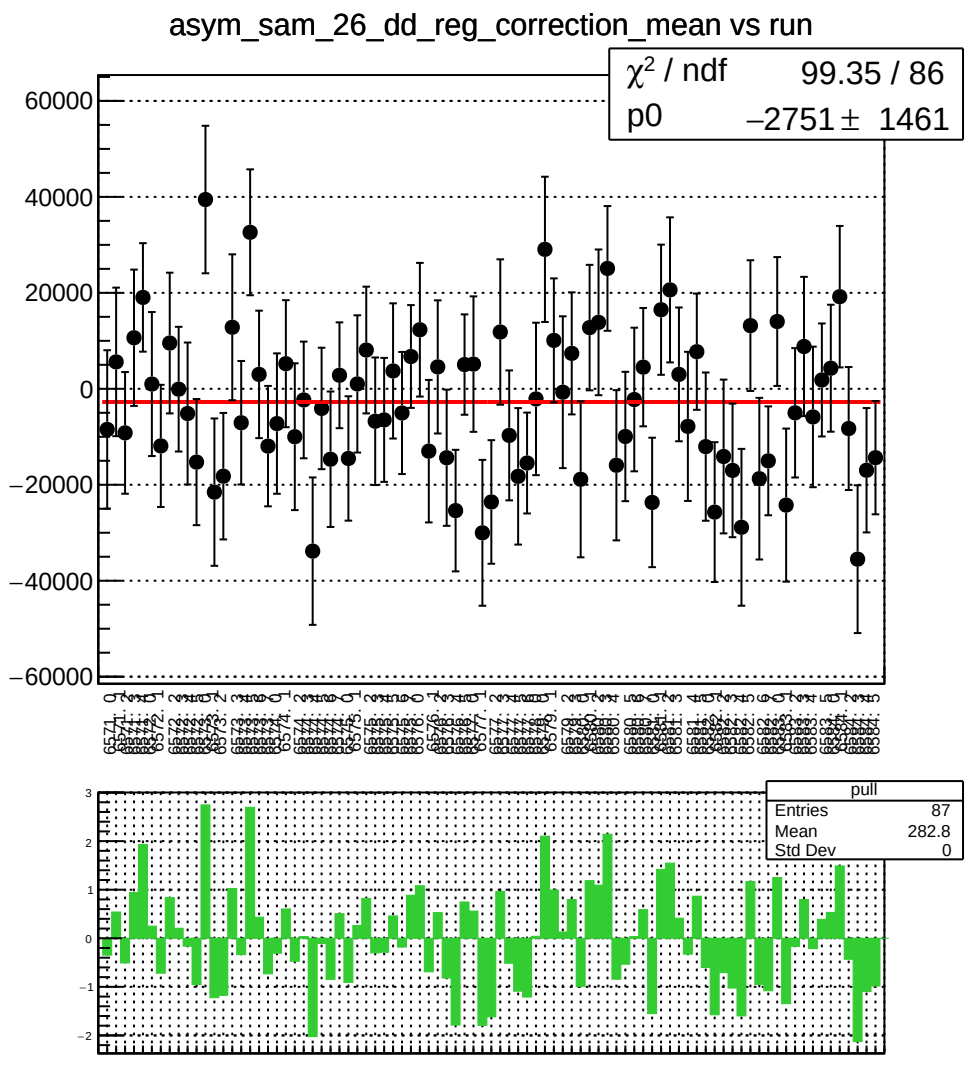

pull1D
Entries 87
Mean 0.06766
Std Dev 1.125

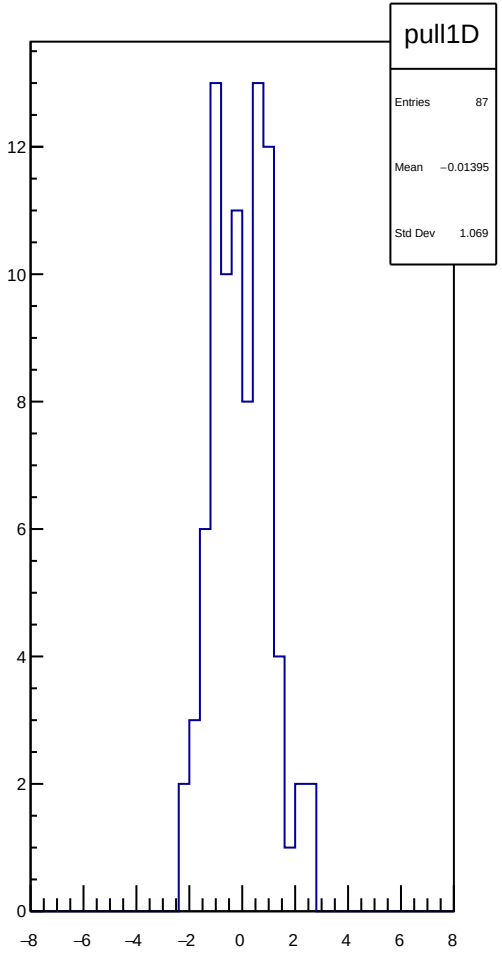

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.407e+05 / 86
p0 4.854e−12 ± 4.534e−15
35
30
25
20
15
10
5

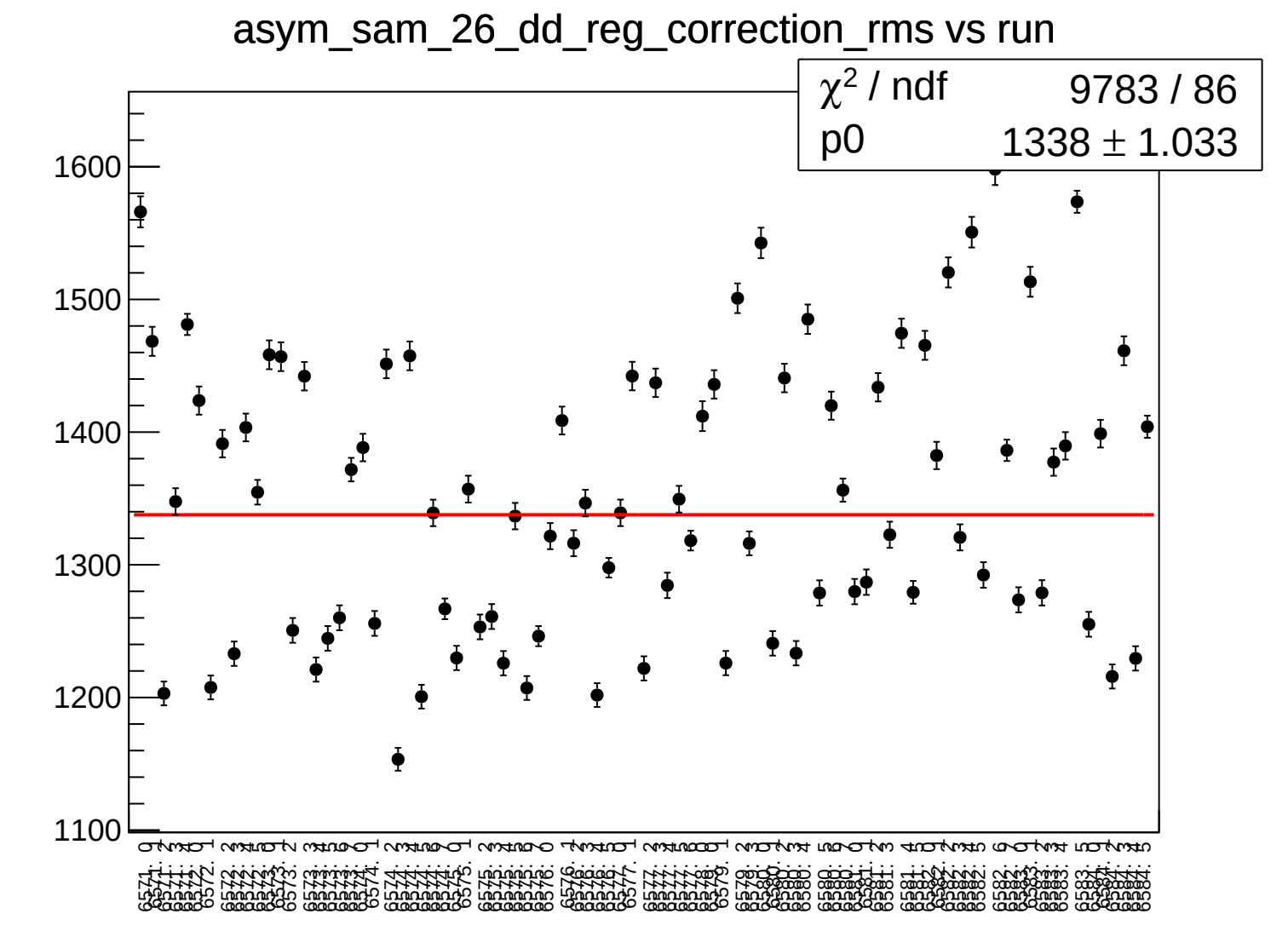

reg_asym_sam_26_dd_mean vs run
χ² / ndf 107 / 86
p0 −523 ± 202.1
pull
Entries 87
Mean 101.6
Std Dev 0

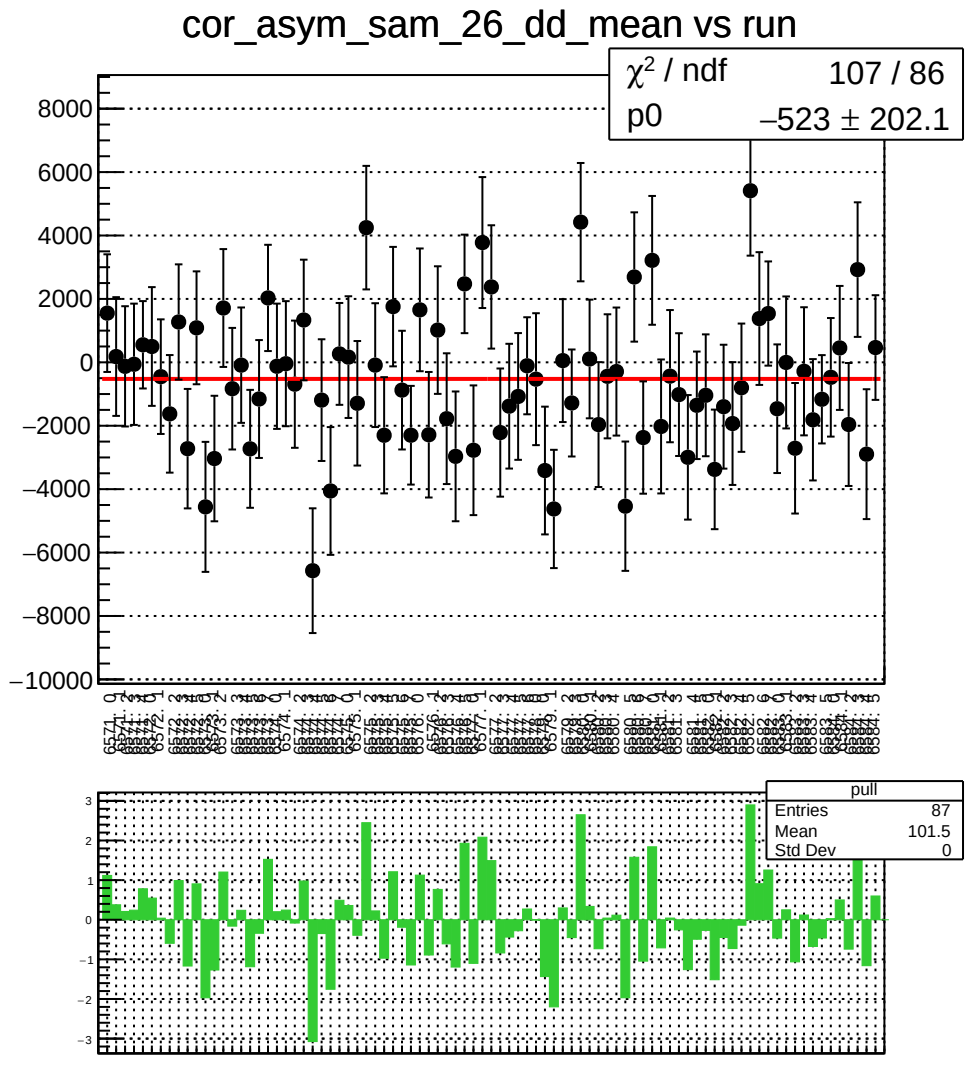

pull1D
Entries 87
Mean −0.01283
Std Dev 1.109

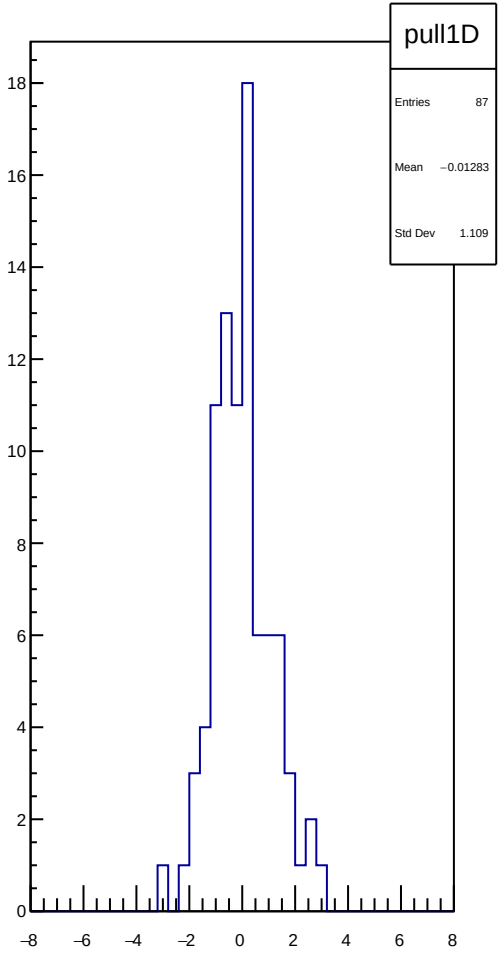

reg_asym_sam_26_dd_rms vs run
χ² / ndf 2648 / 86
p0 185.5 ± 0.1429
205
200
195
190
185
180
175
170

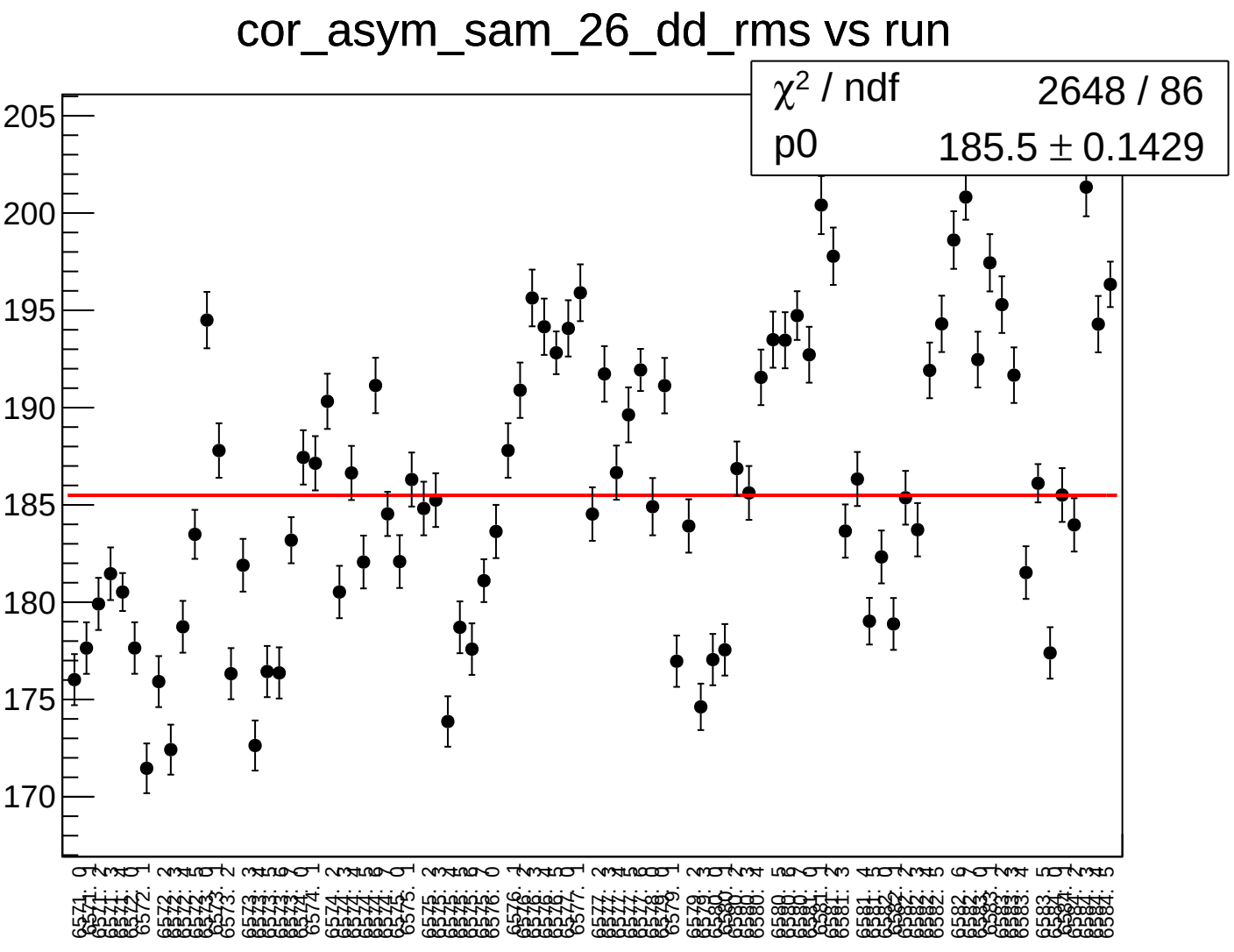

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 99.35 / 86
p0 −2751 ± 1461
pull
Entries 87
Mean 282.8
Std Dev 0

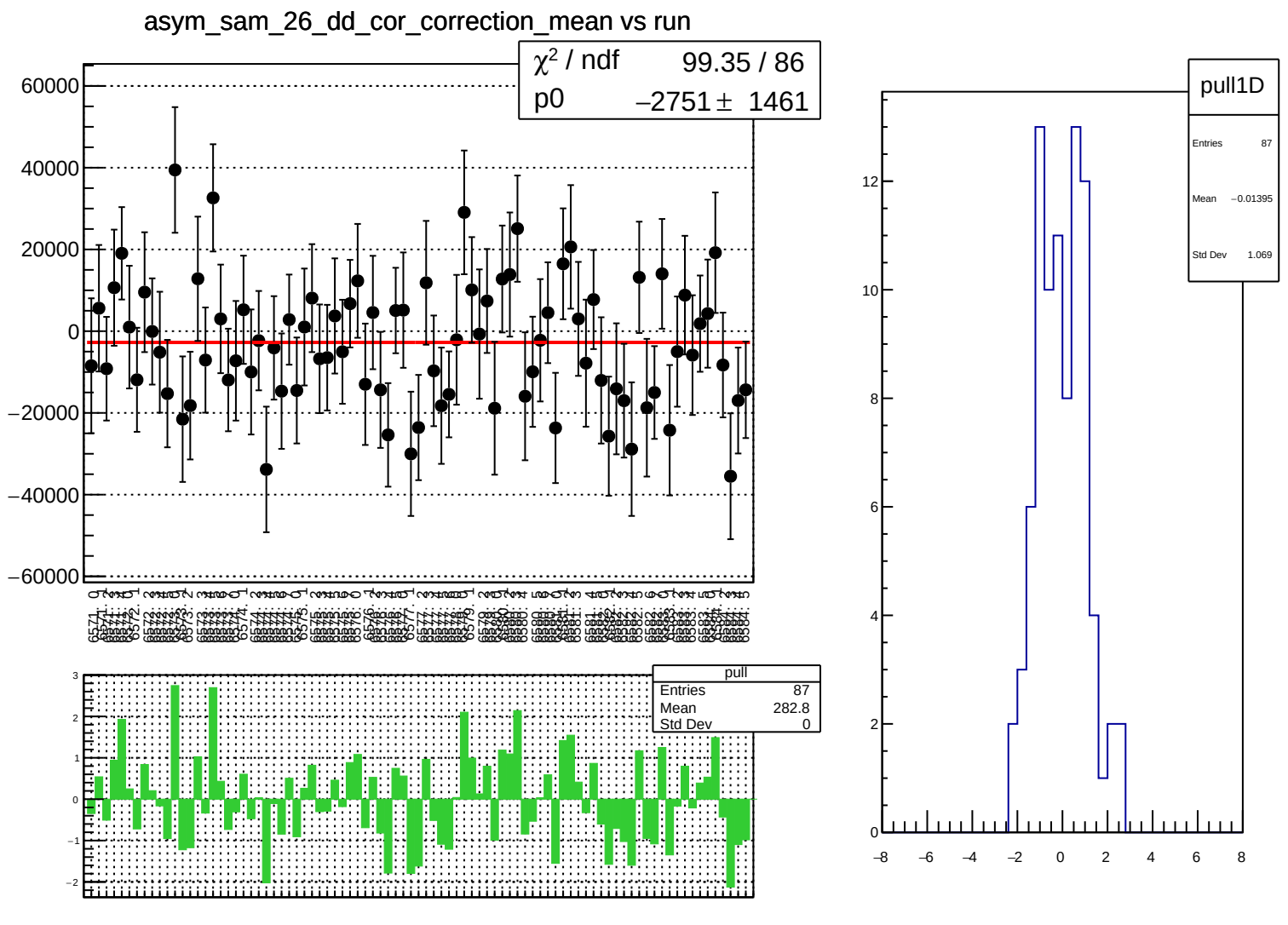

pull1D
Entries 87
Mean −0.01395
Std Dev 1.069

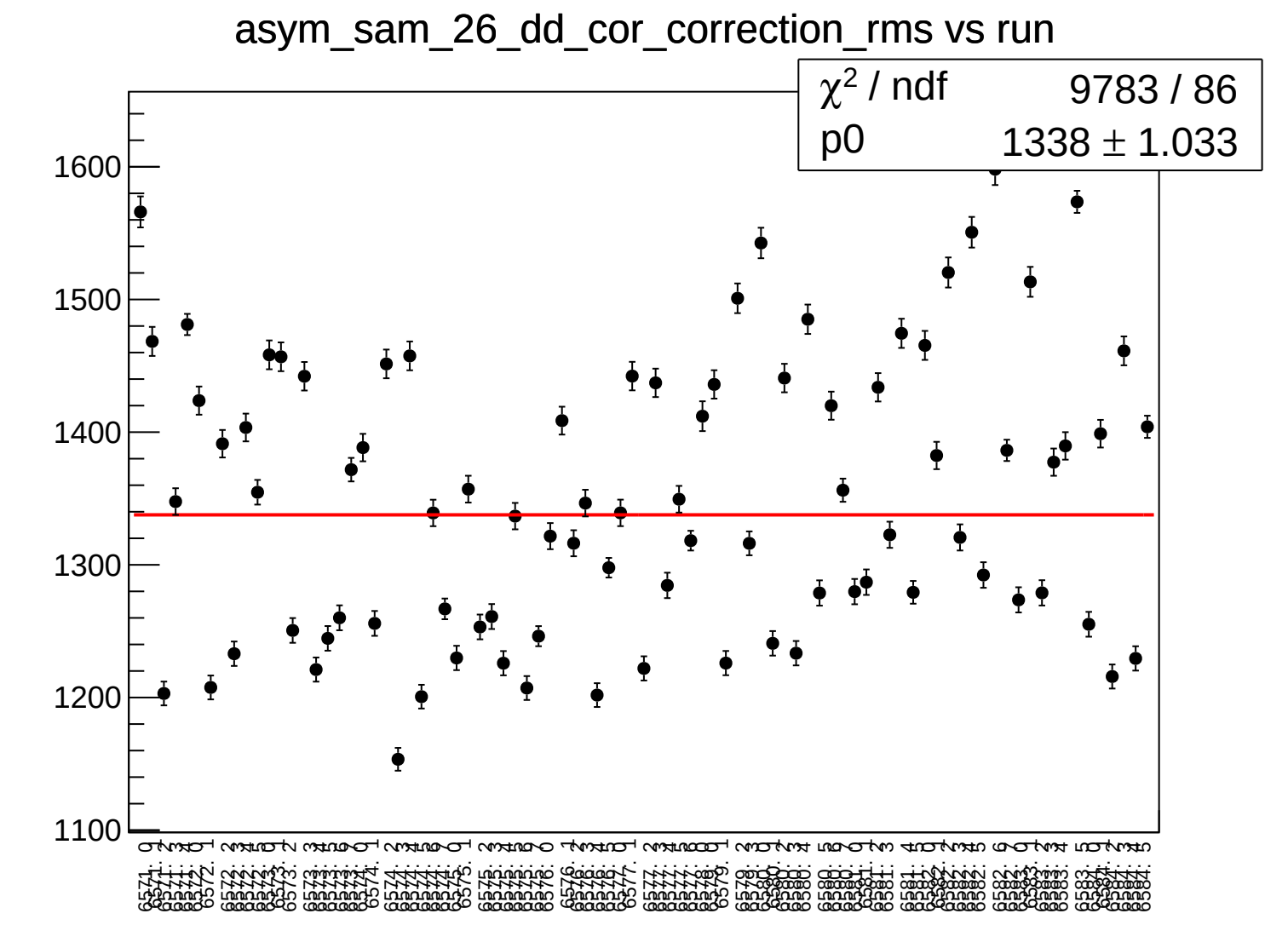

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 9783 / 86
p0 1338 ± 1.033
1600
1500
1400
1300
1200
1100

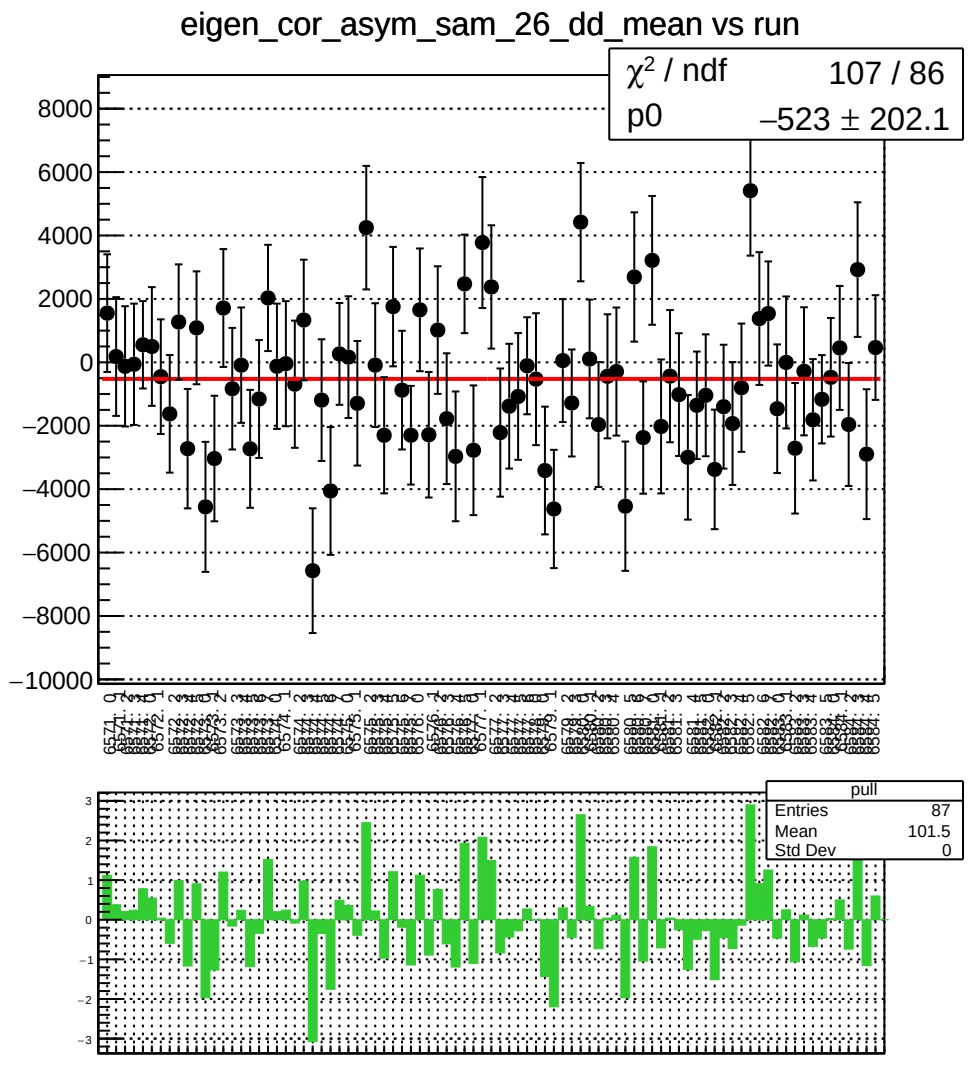

cor_asym_sam_26_dd_mean vs run
χ² / ndf 107 / 86
p0 −523 ± 202.1
pull
Entries 87
Mean 101.5
Std Dev 0

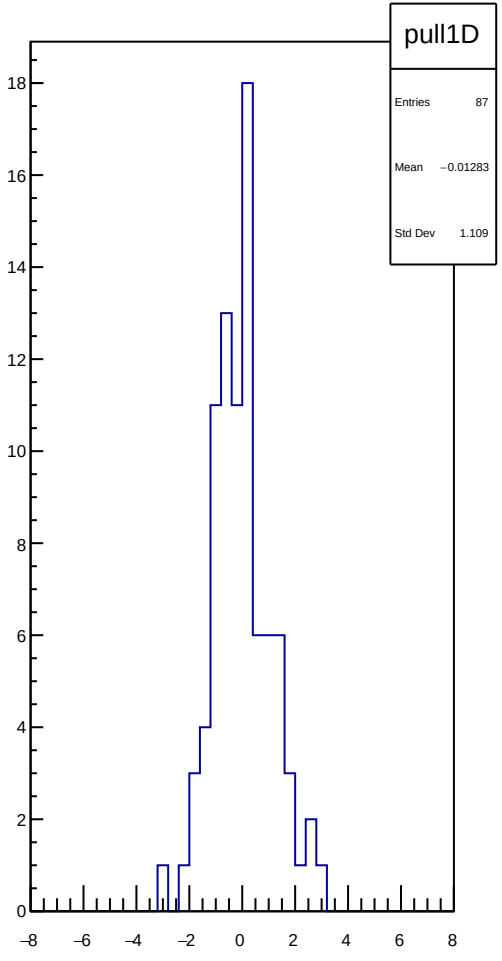

pull1D
Entries 87
Mean −0.01283
Std Dev 1.109

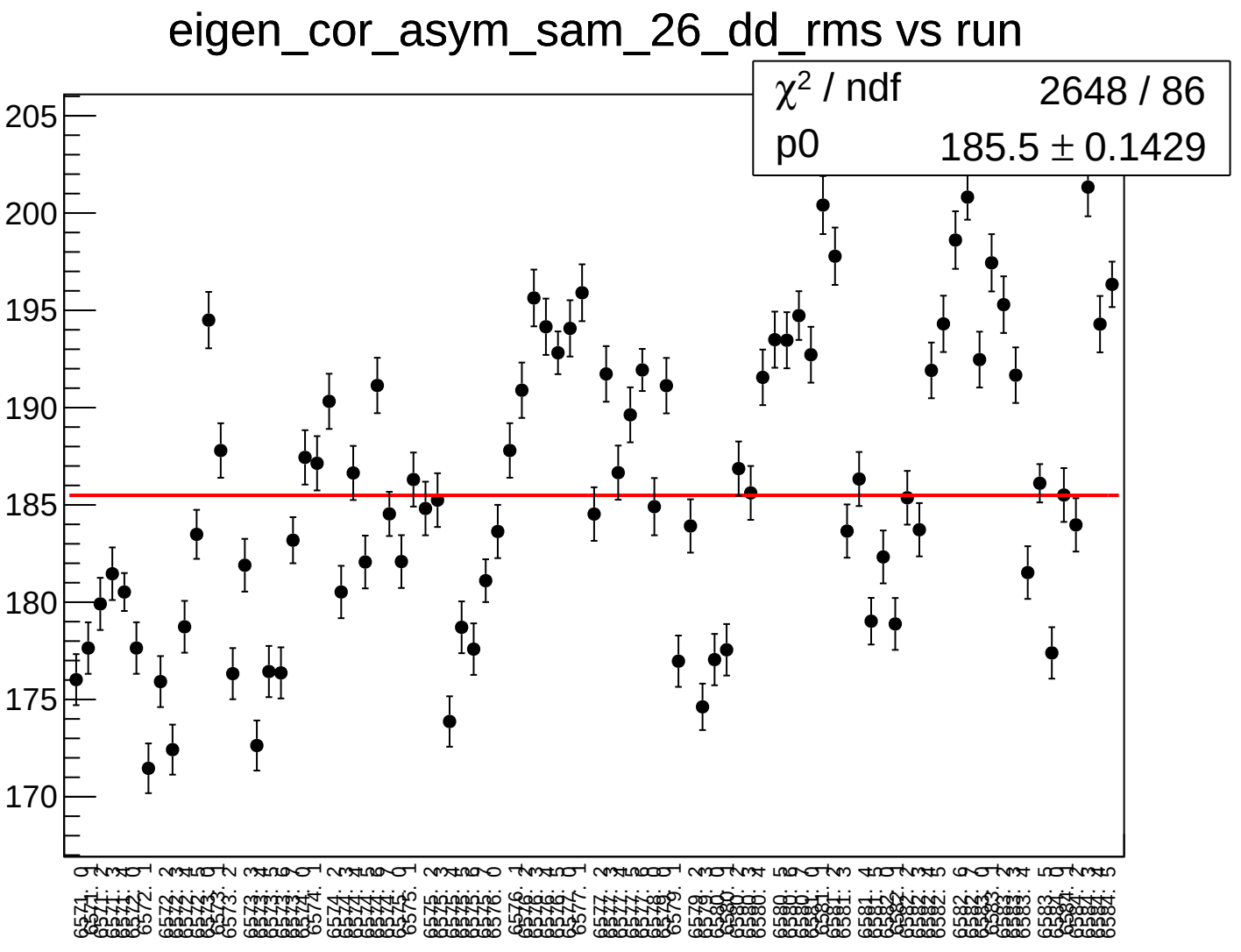

cor_asym_sam_26_dd_rms vs run
χ² / ndf 2648 / 86
p0 185.5 ± 0.1429
205
200
195
190
185
180
175
170

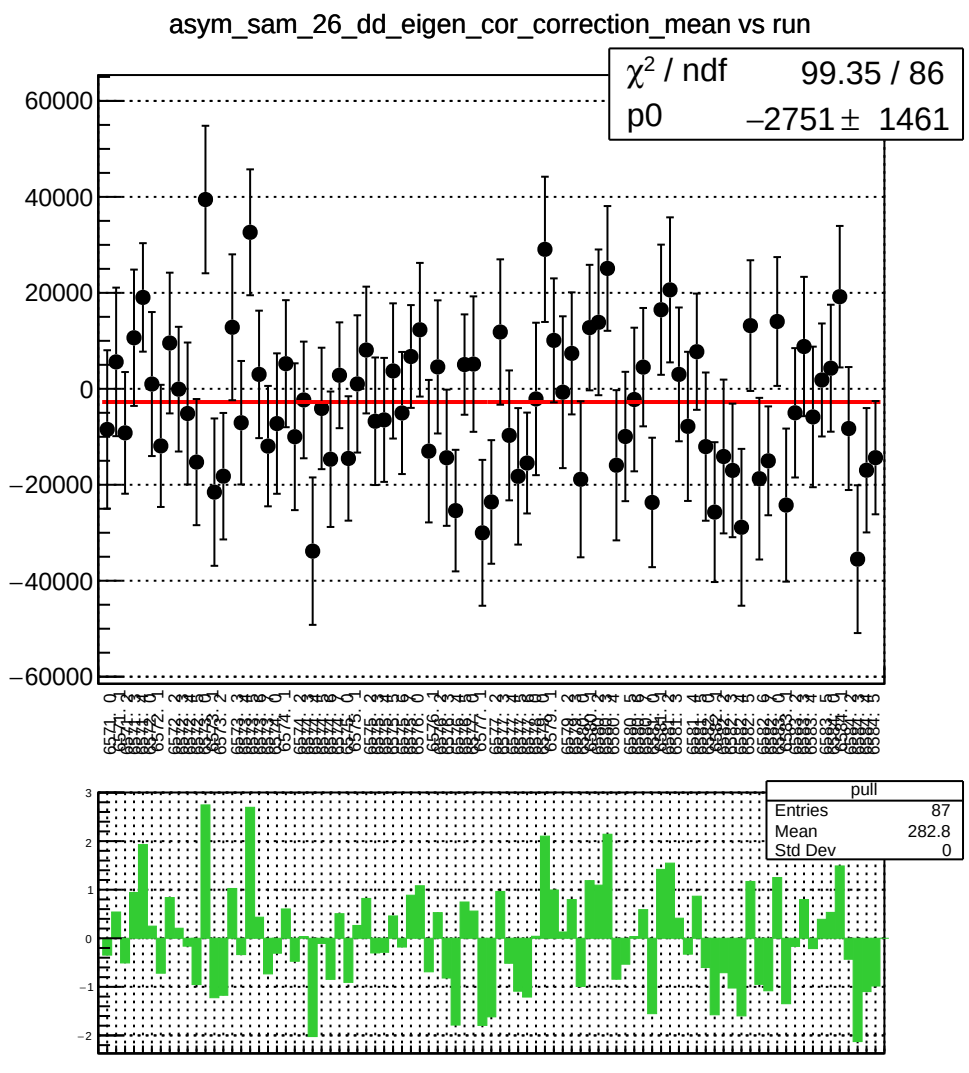

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 99.35 / 86
p0 −2751 ± 1461
pull
Entries 87
Mean 282.8
Std Dev 0
pull1D
Entries 87
Mean −0.01395
Std Dev 1.069

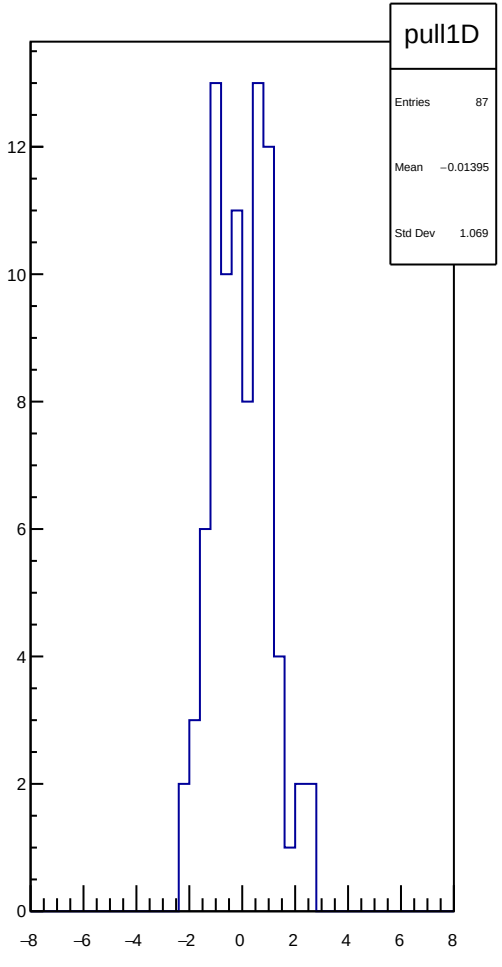

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 9783 / 86
p0 1338 ± 1.033
1600
1500
1400
1300
1200
1100

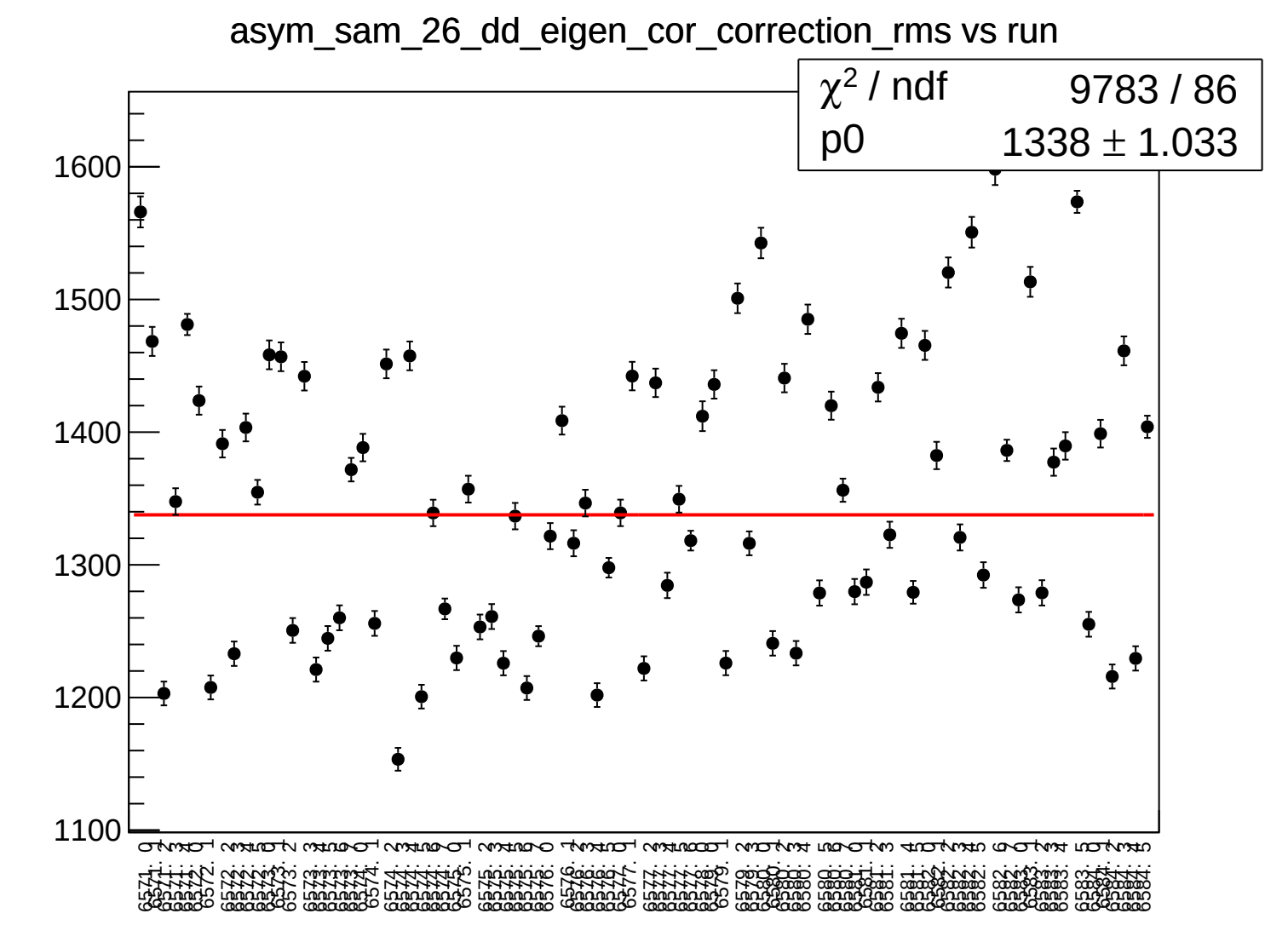

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 107 / 86
p0 −523 ± 202.1
pull
Entries 87
Mean 101.5
Std Dev 0

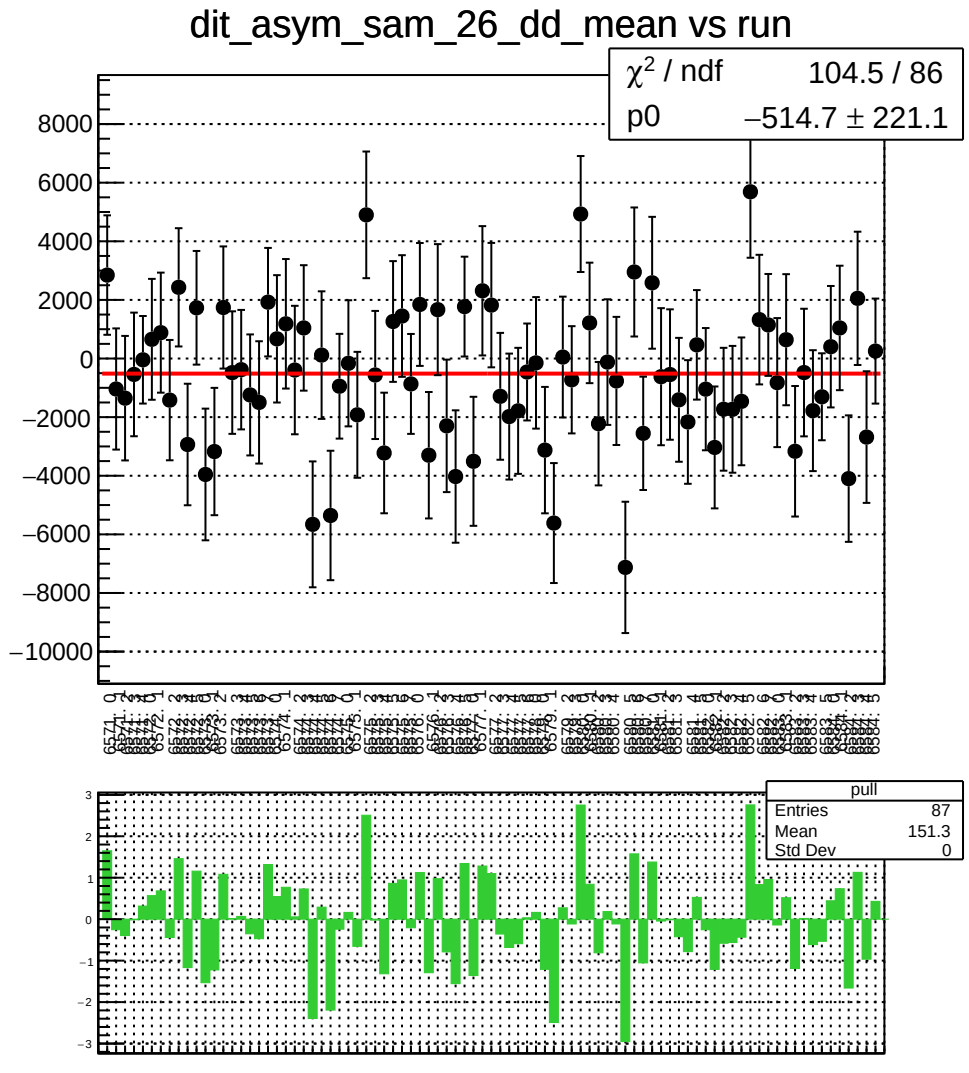

pull1D
Entries 87
Mean −0.01283
Std Dev 1.109

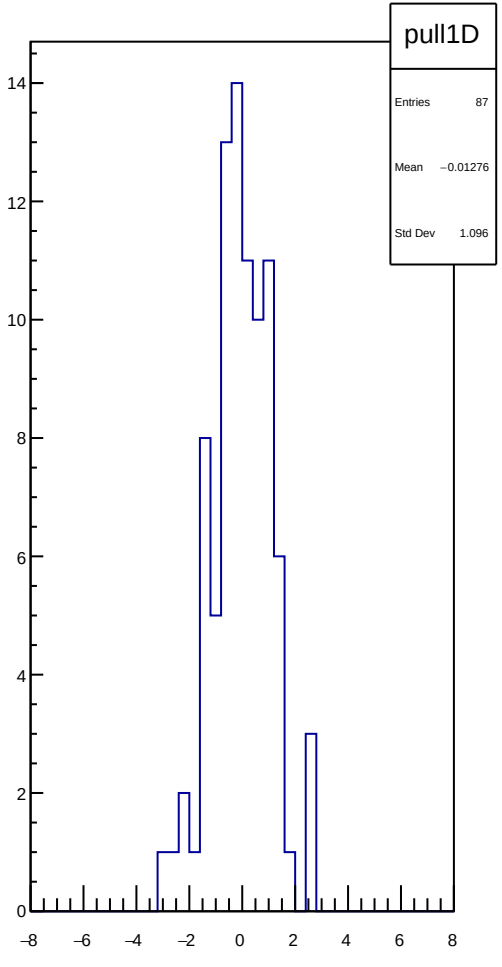

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 2648 / 86
p0 185.5 ± 0.1429
205
200
195
190
185
180
175
170

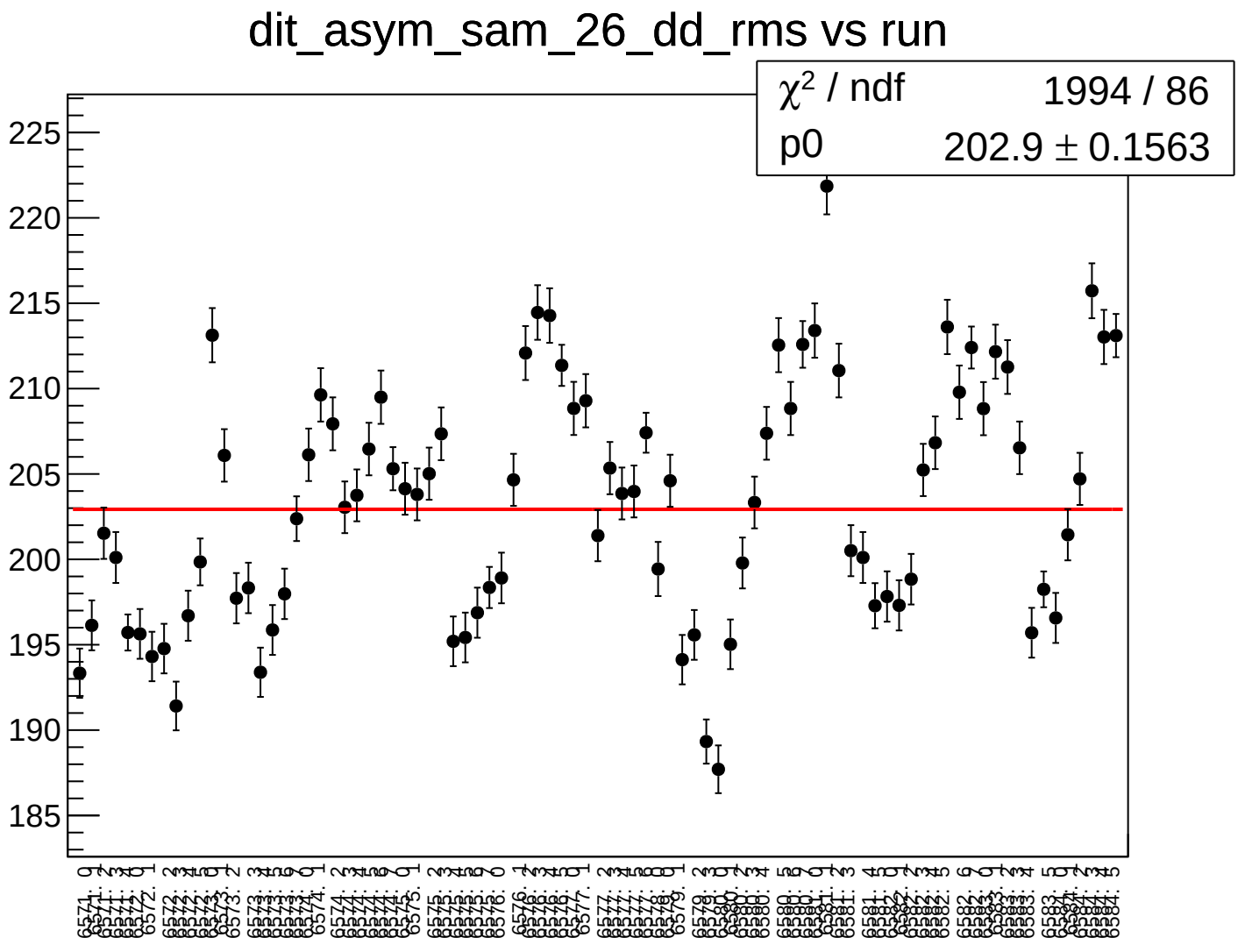

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.35 / 86
p0 −2751 ± 1461
pull
Entries 87
Mean 282.8
Std Dev 0

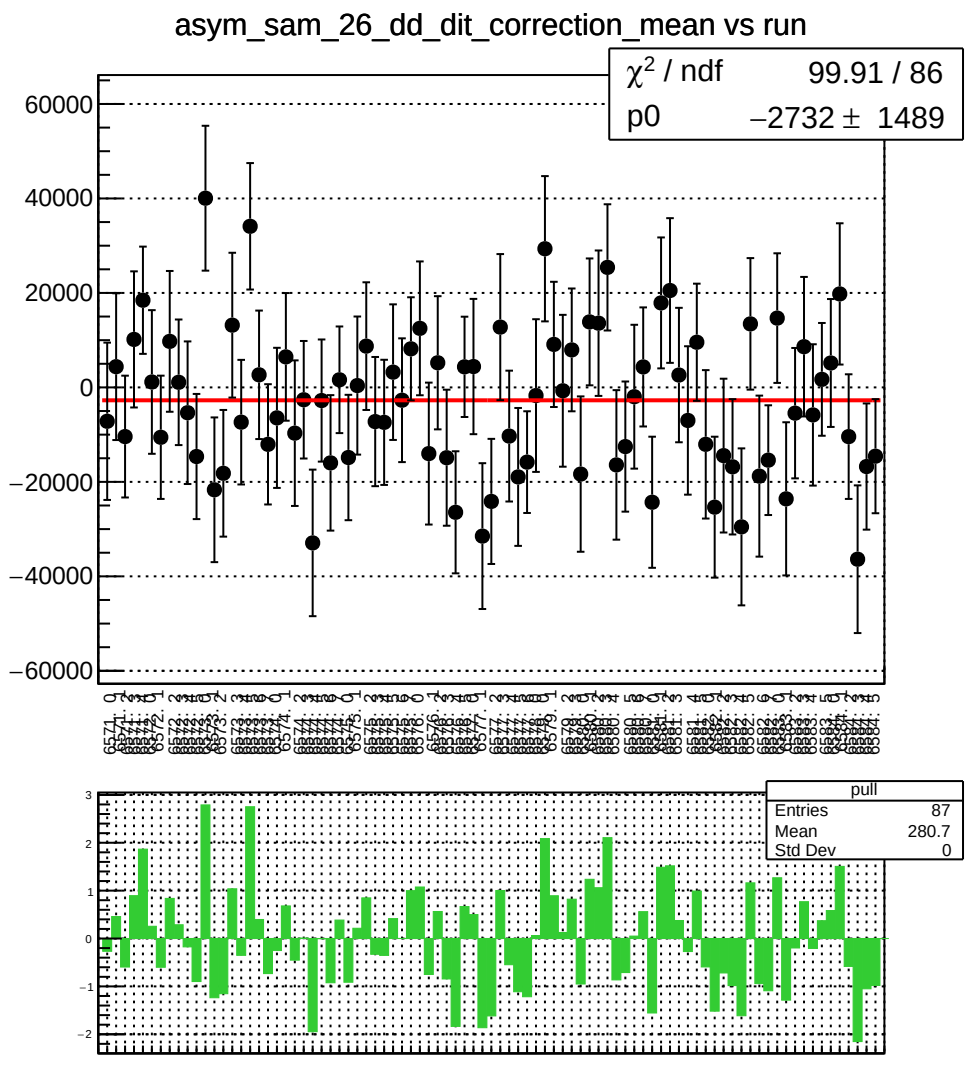

pull1D
Entries 87
Mean −0.01395
Std Dev 1.069

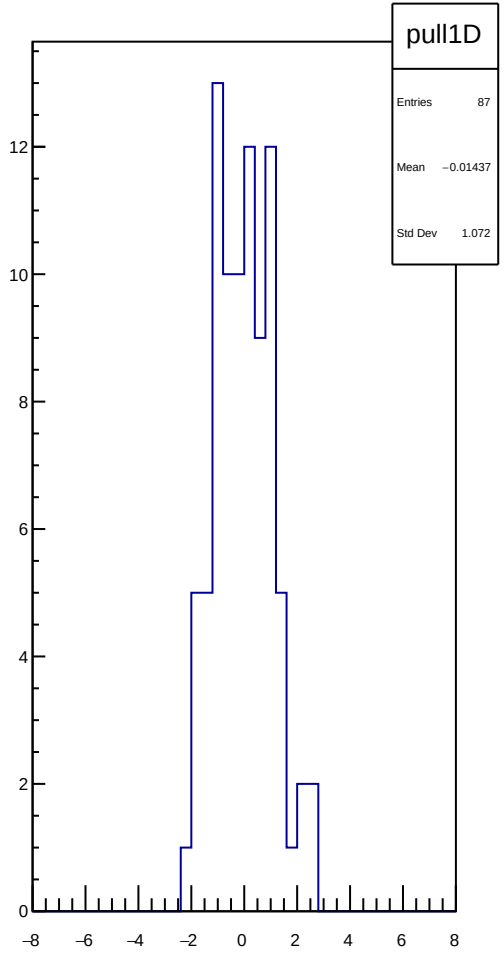

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 9783 / 86
p0 1338 ± 1.033
1600
1500
1400
1300
1200
1100

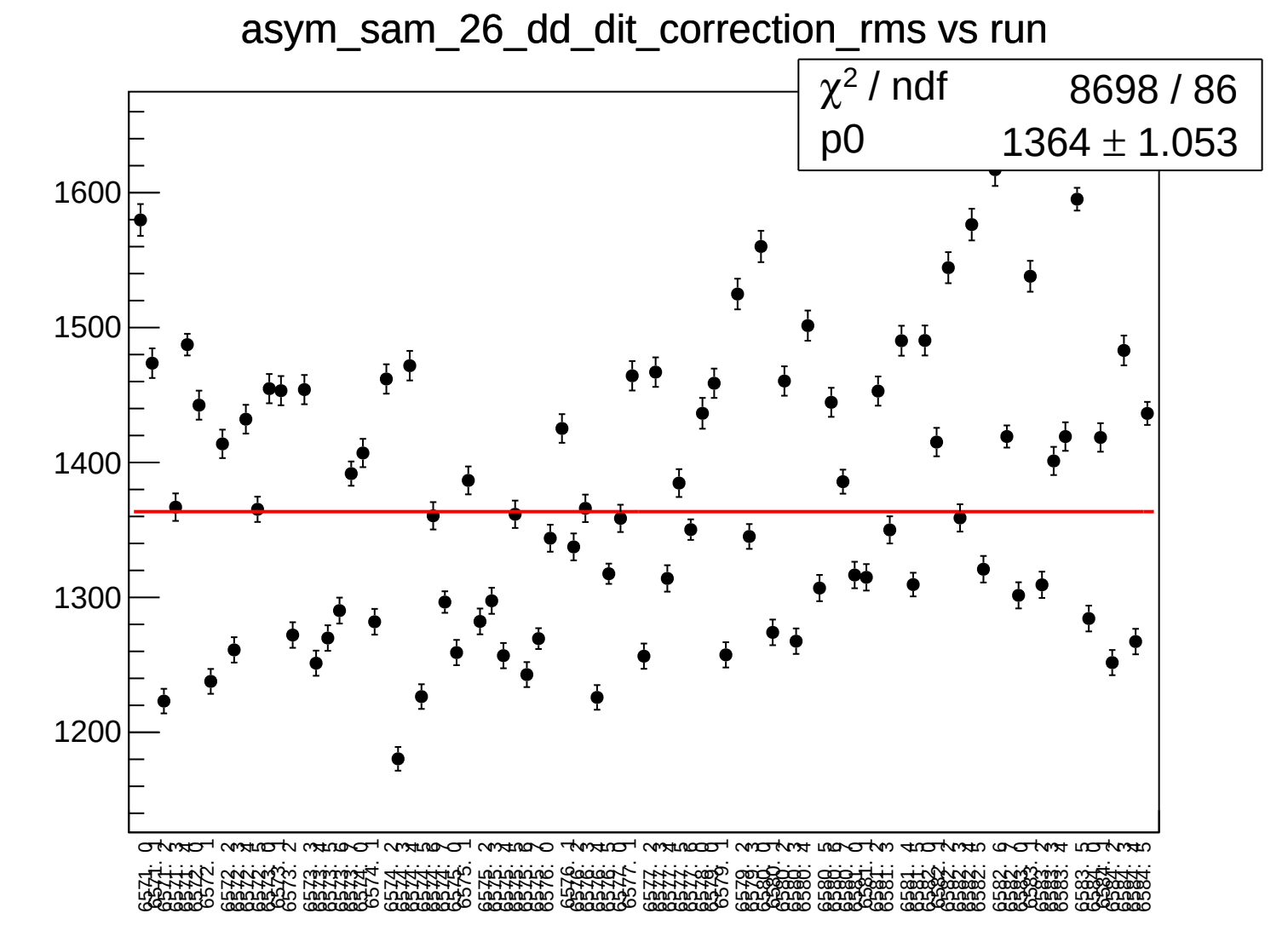

dit_asym_sam_26_dd_mean vs run
χ² / ndf 104.5 / 86
p0 −514.7 ± 221.1
pull
Entries 87
Mean 151.3
Std Dev 0

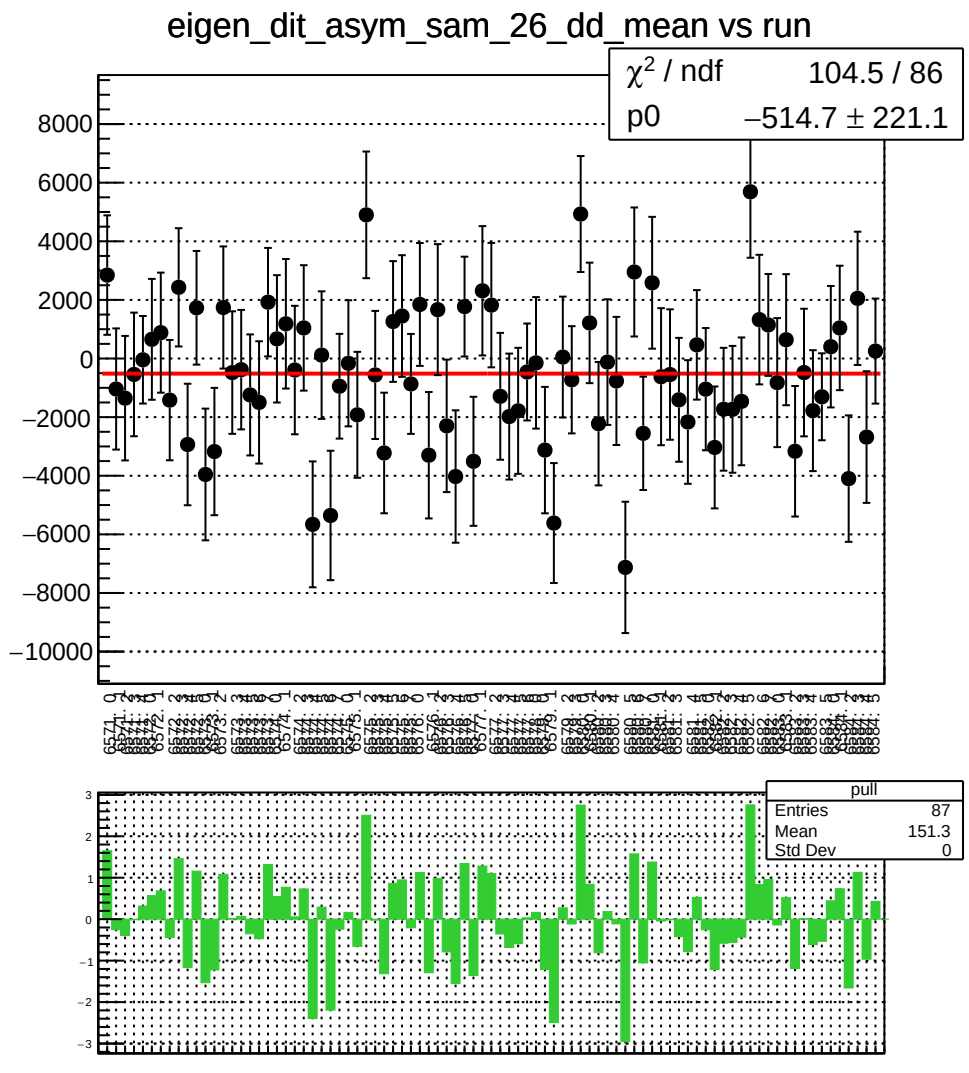

pull1D
Entries 87
Mean −0.01276
Std Dev 1.096

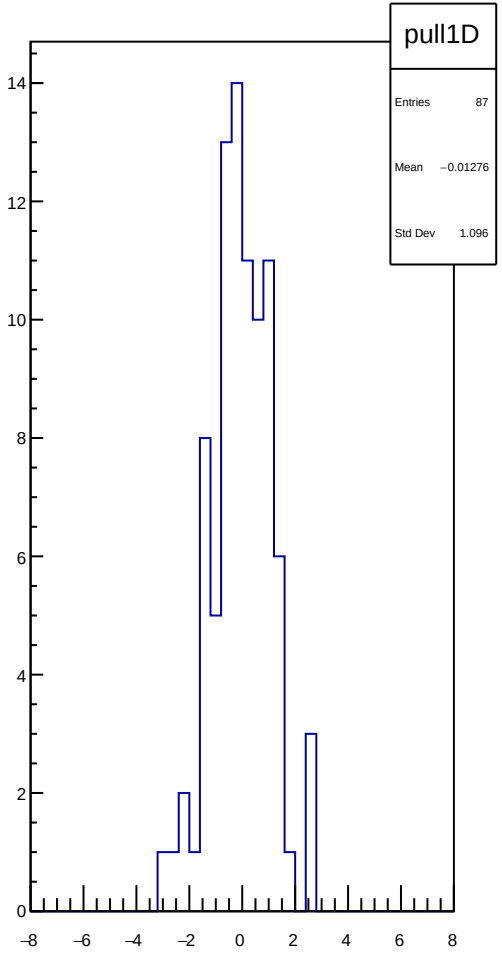

dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 1994 / 86
p0 202.9 ± 0.1563
225
220
215
210
205
200
195
190
185

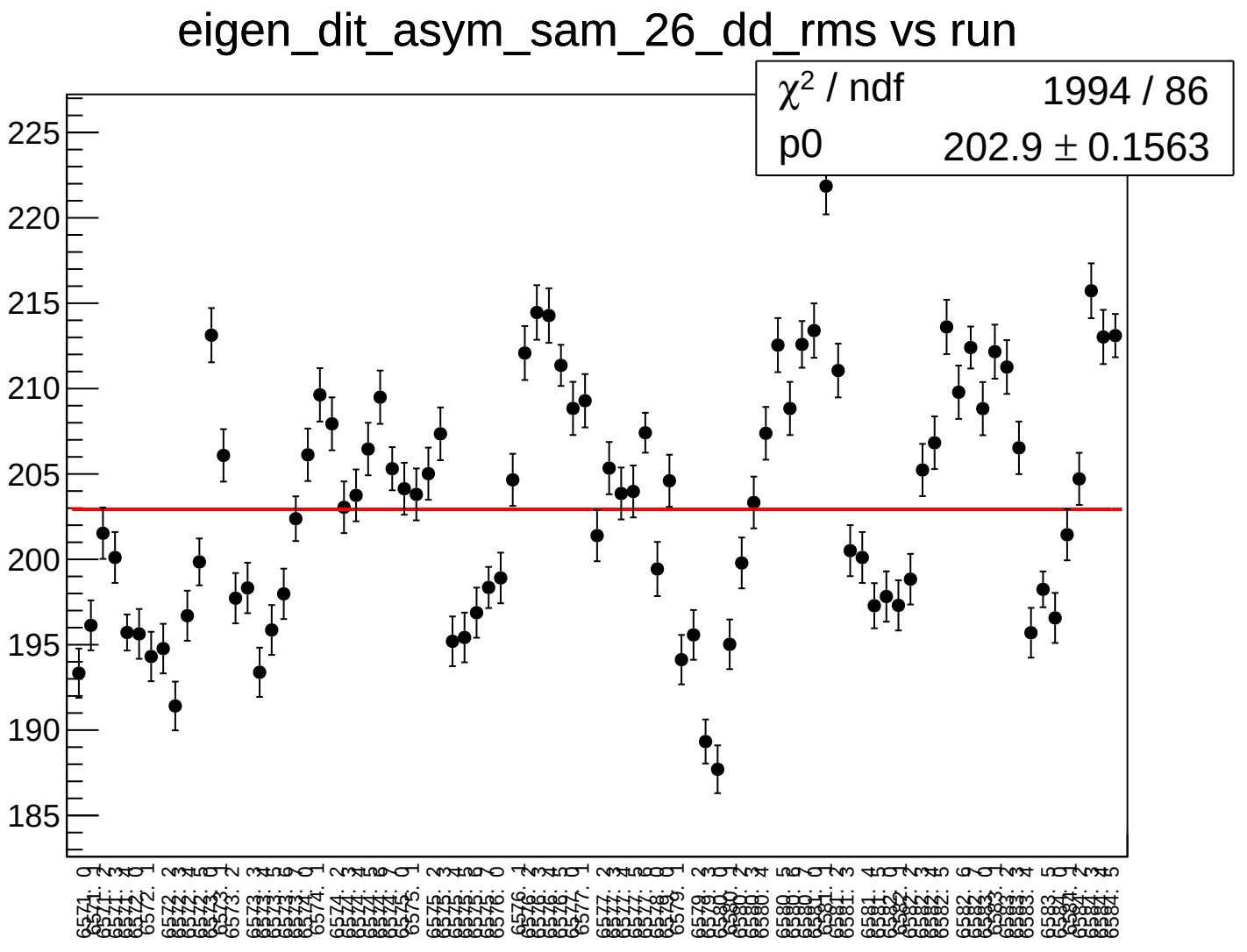

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 99.91 / 86
p0 −2732 ± 1489
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 280.7
Std Dev 0
3
2
1
0
−1
−2

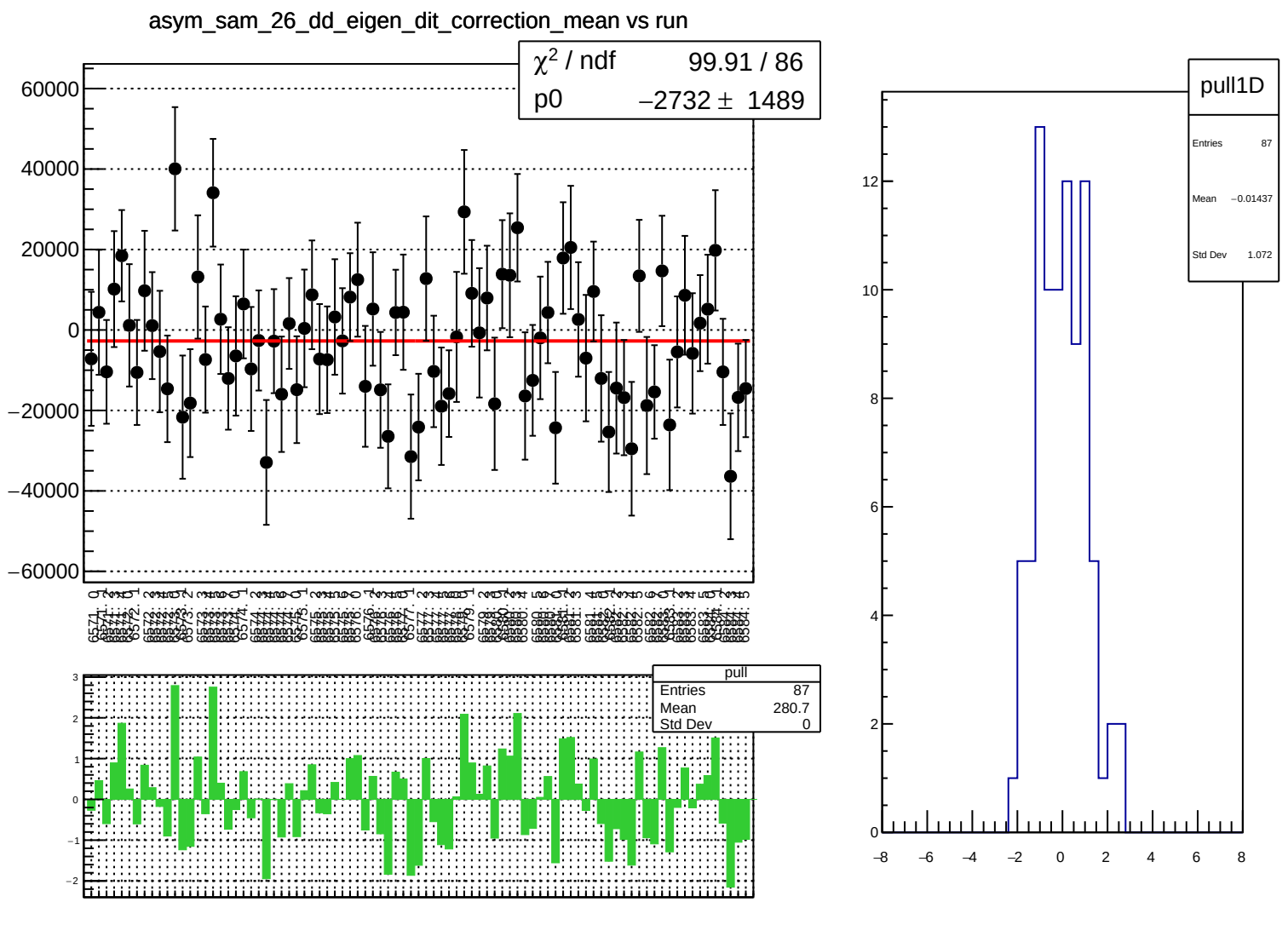

pull1D
Entries 87
Mean −0.01437
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

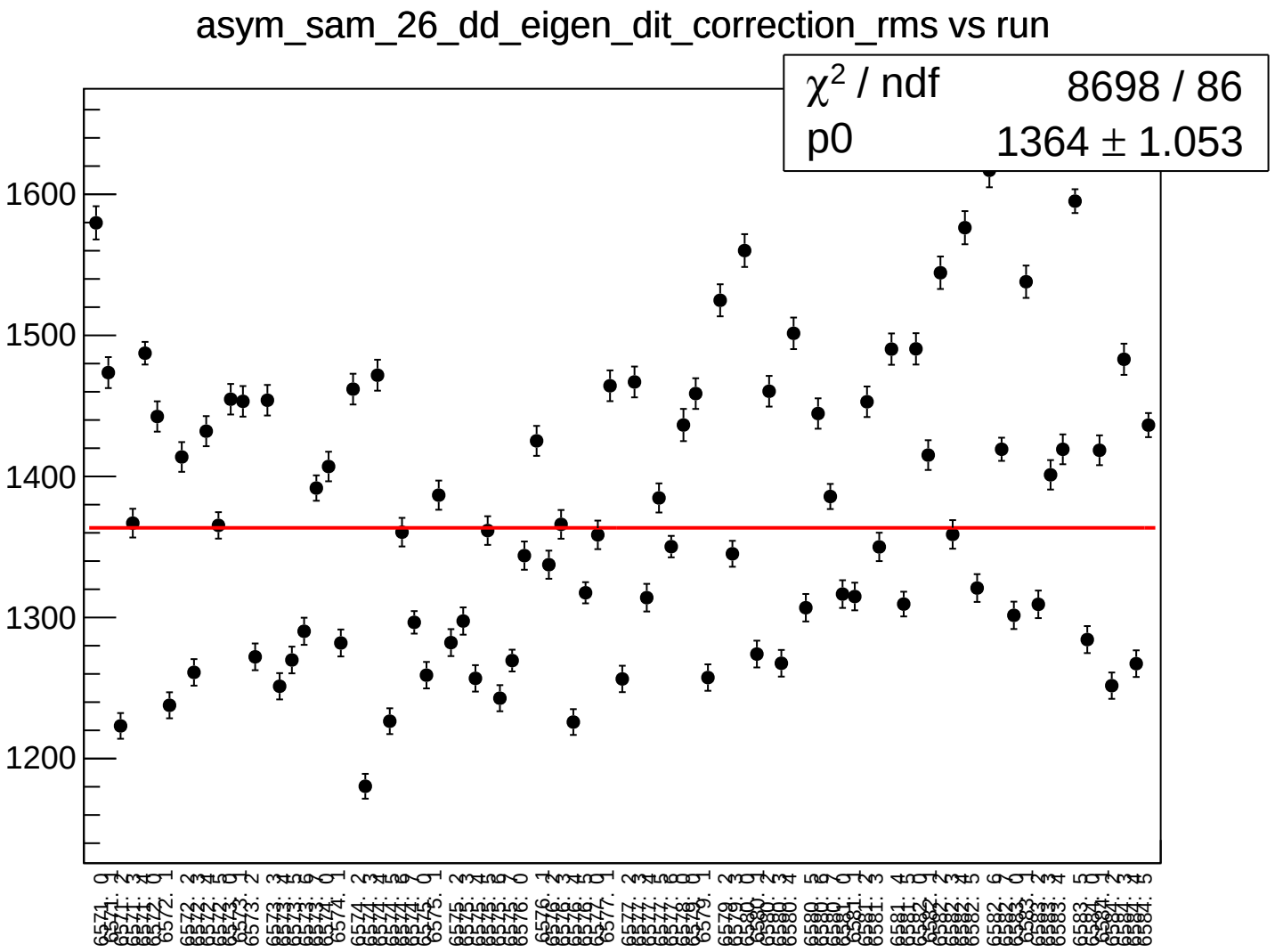

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 8698 / 86
p0 1364 ± 1.053
1600
1500
1400
1300
1200

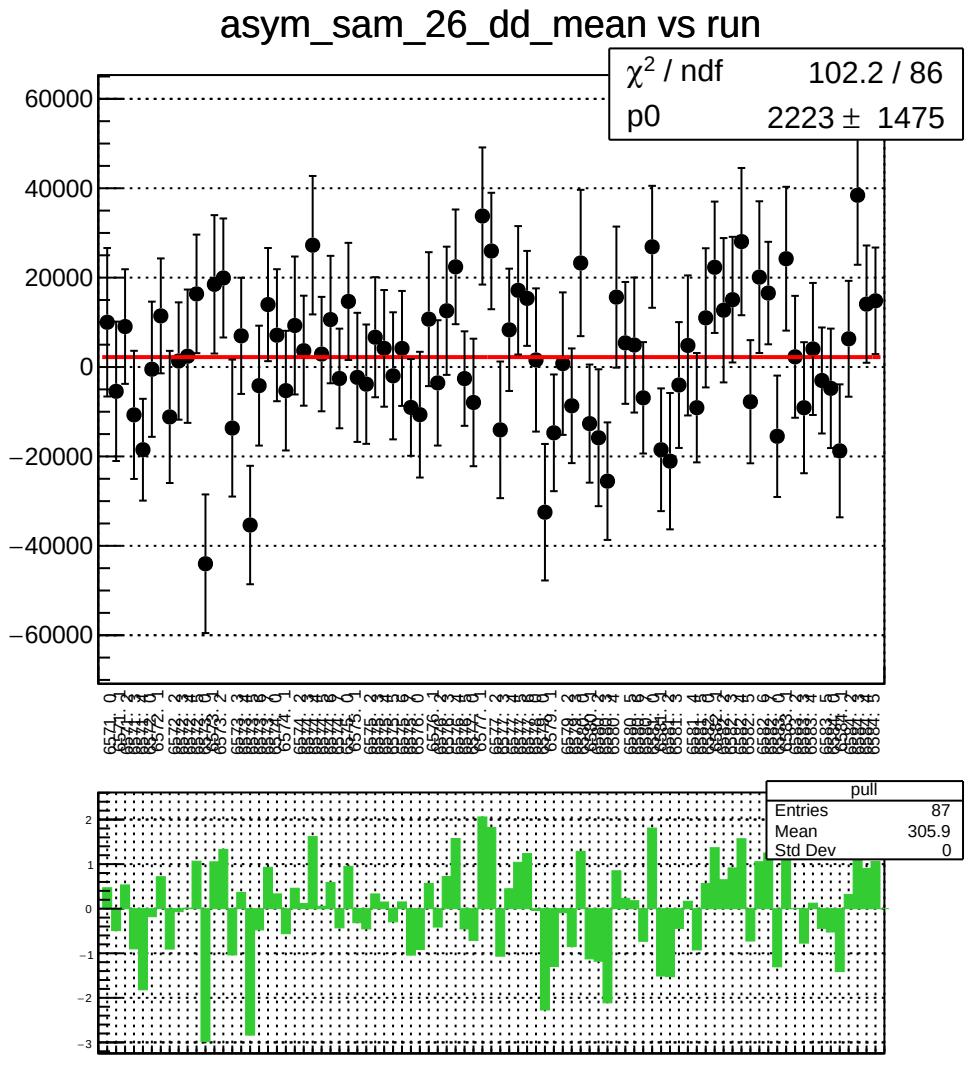

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 104.5 / 86
p0 −514.7 ± 221.1
pull
Entries 87
Mean 151.3
Std Dev 0

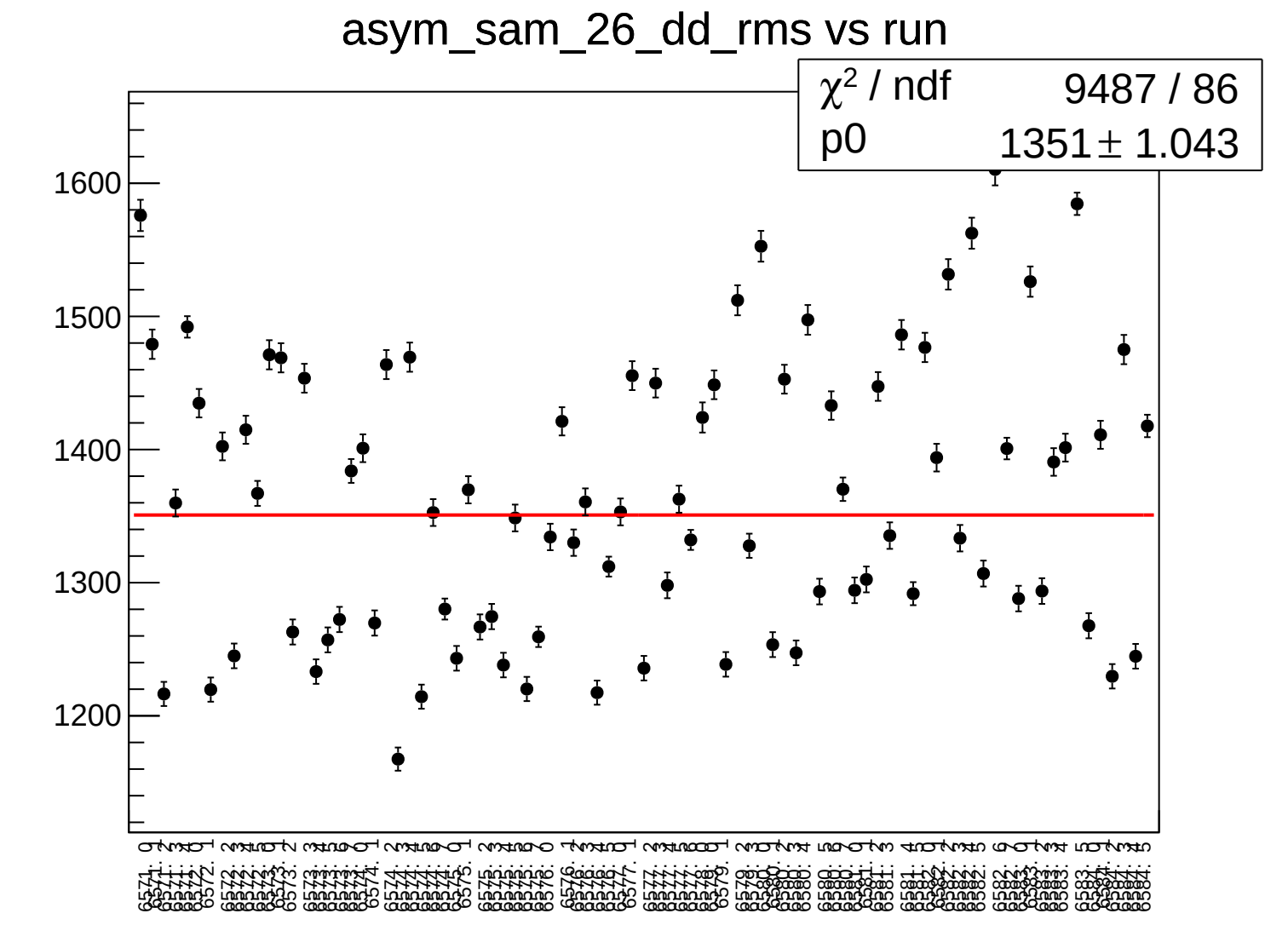

pull1D
Entries 87
Mean −0.01276
Std Dev 1.096

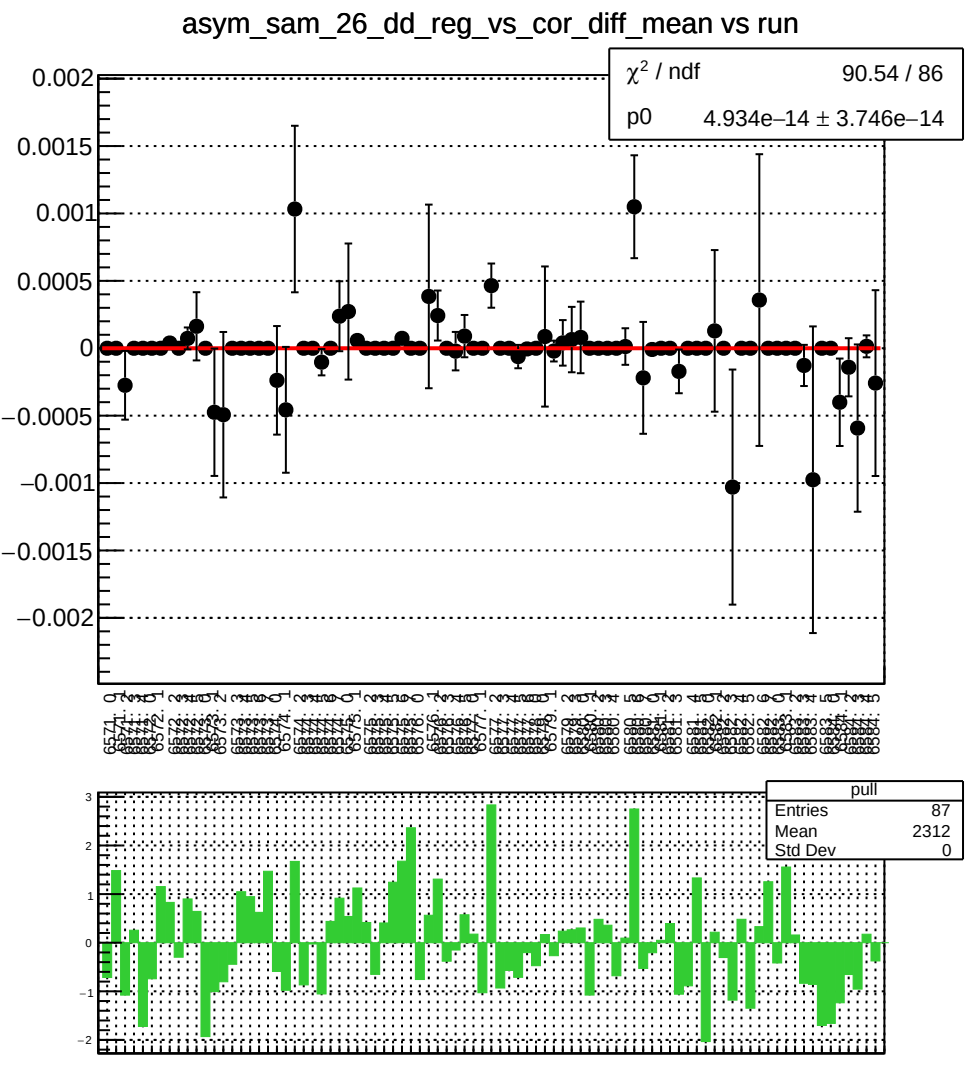

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1994 / 86
p0 202.9 ± 0.1563
225
220
215
210
205
200
195
190
185

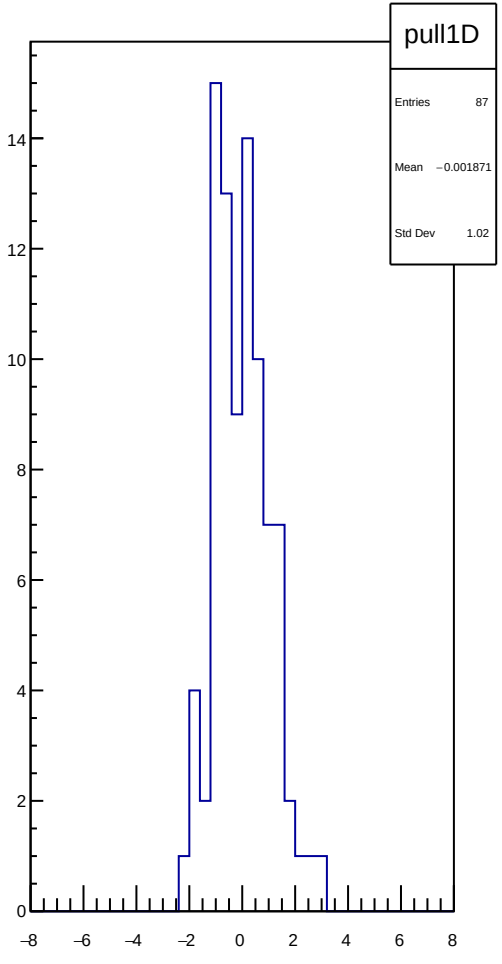

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.91 / 86
p0 −2732 ± 1489
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 280.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01437
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

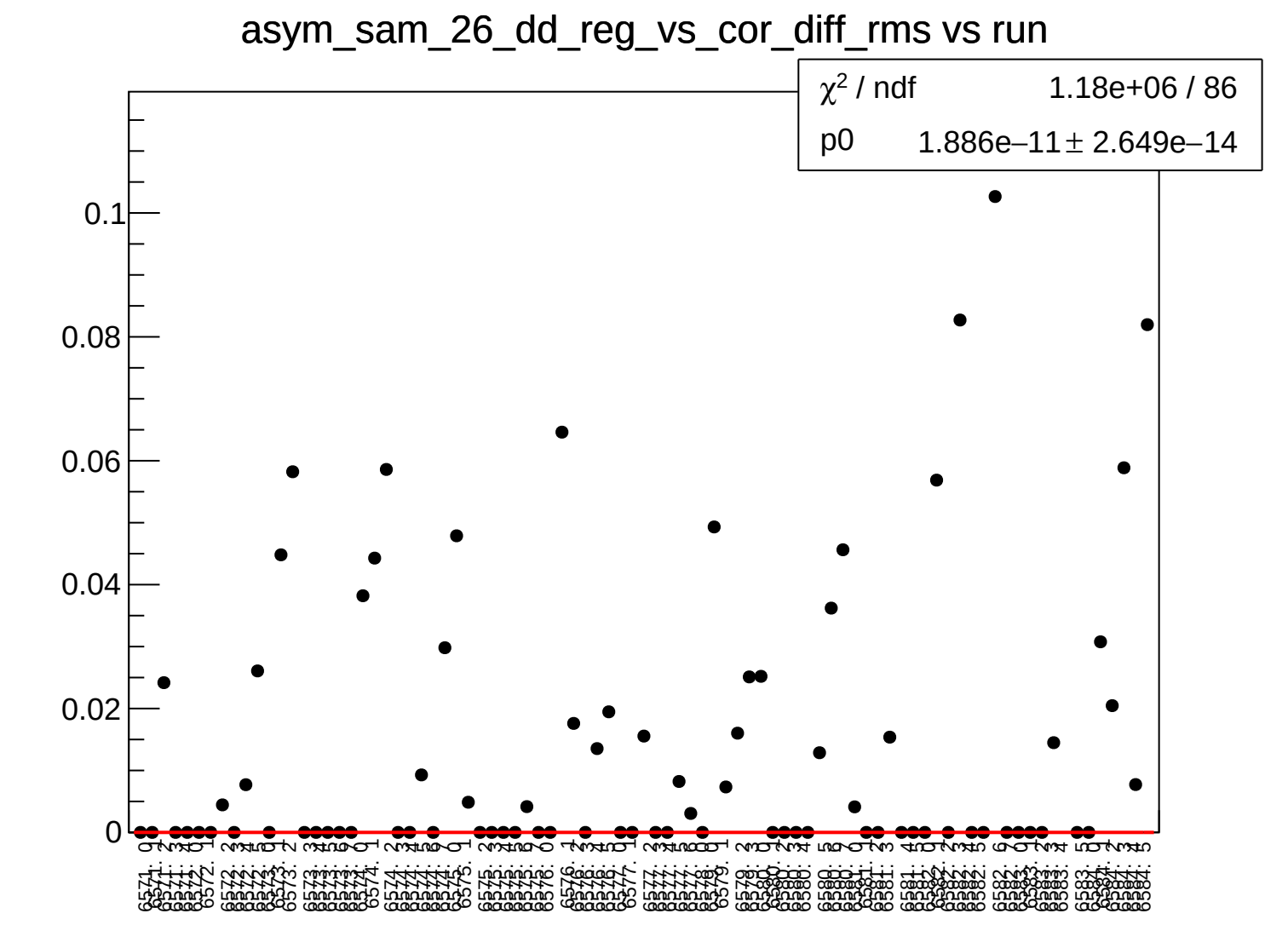

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8698 / 86
p0 1364 ± 1.053
1600
1500
1400
1300
1200

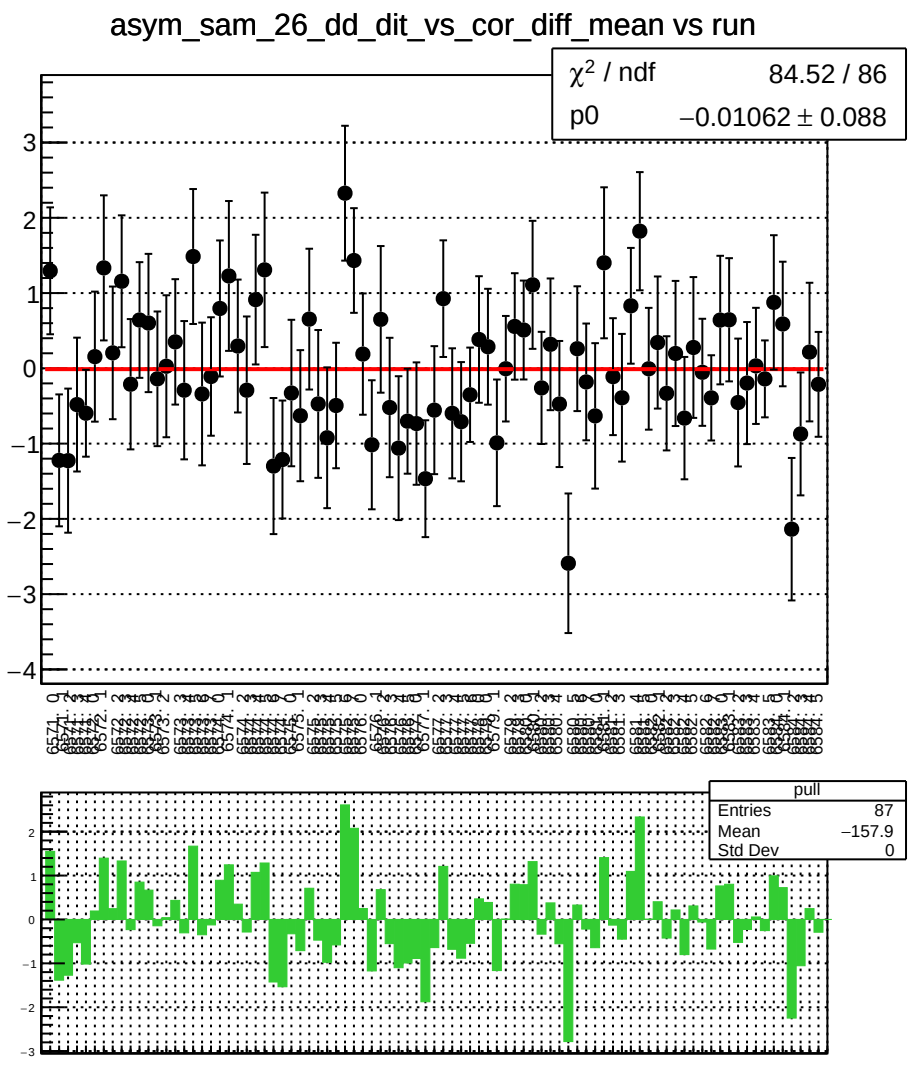

asym_sam_26_dd_mean vs run
χ² / ndf 102.2 / 86
p0 2223 ± 1475
pull
Entries 87
Mean 305.9
Std Dev 0
pull1D
Entries 87
Mean 0.0122
Std Dev 1.084

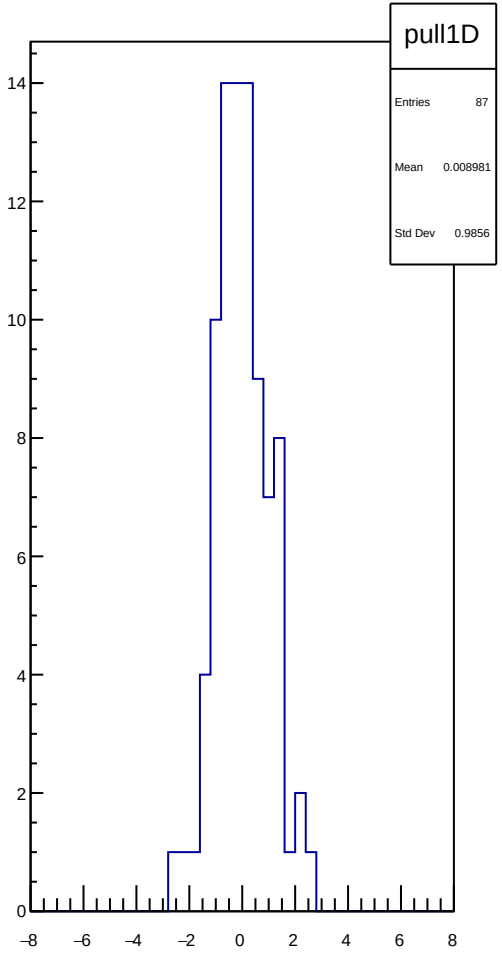

asym_sam_26_dd_rms vs run
χ² / ndf 9487 / 86
p0 1351 ± 1.043
1600
1500
1400
1300
1200

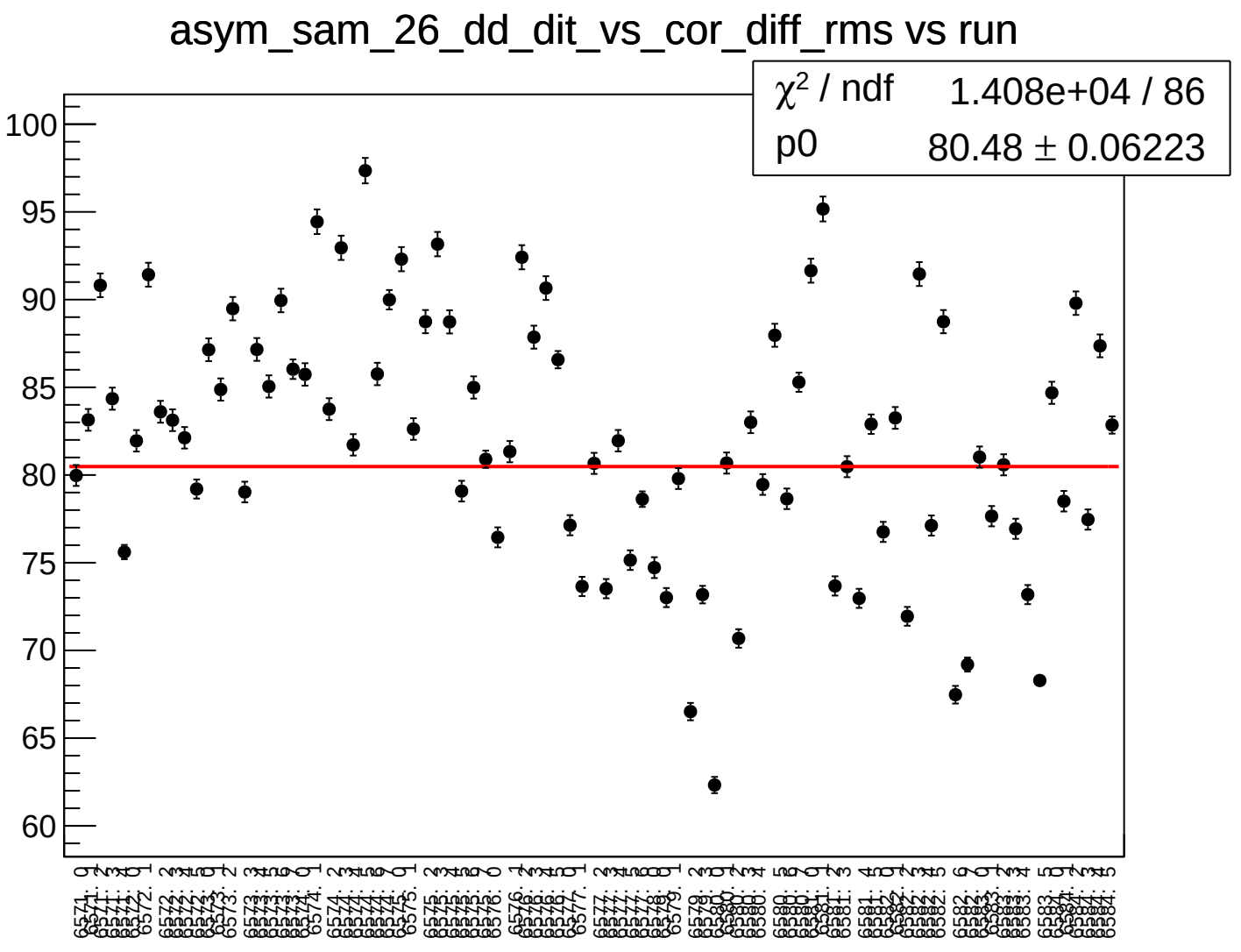

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.54 / 86
p0 4.934e−14 ± 3.746e−14
pull
Entries 87
Mean 2312
Std Dev 0

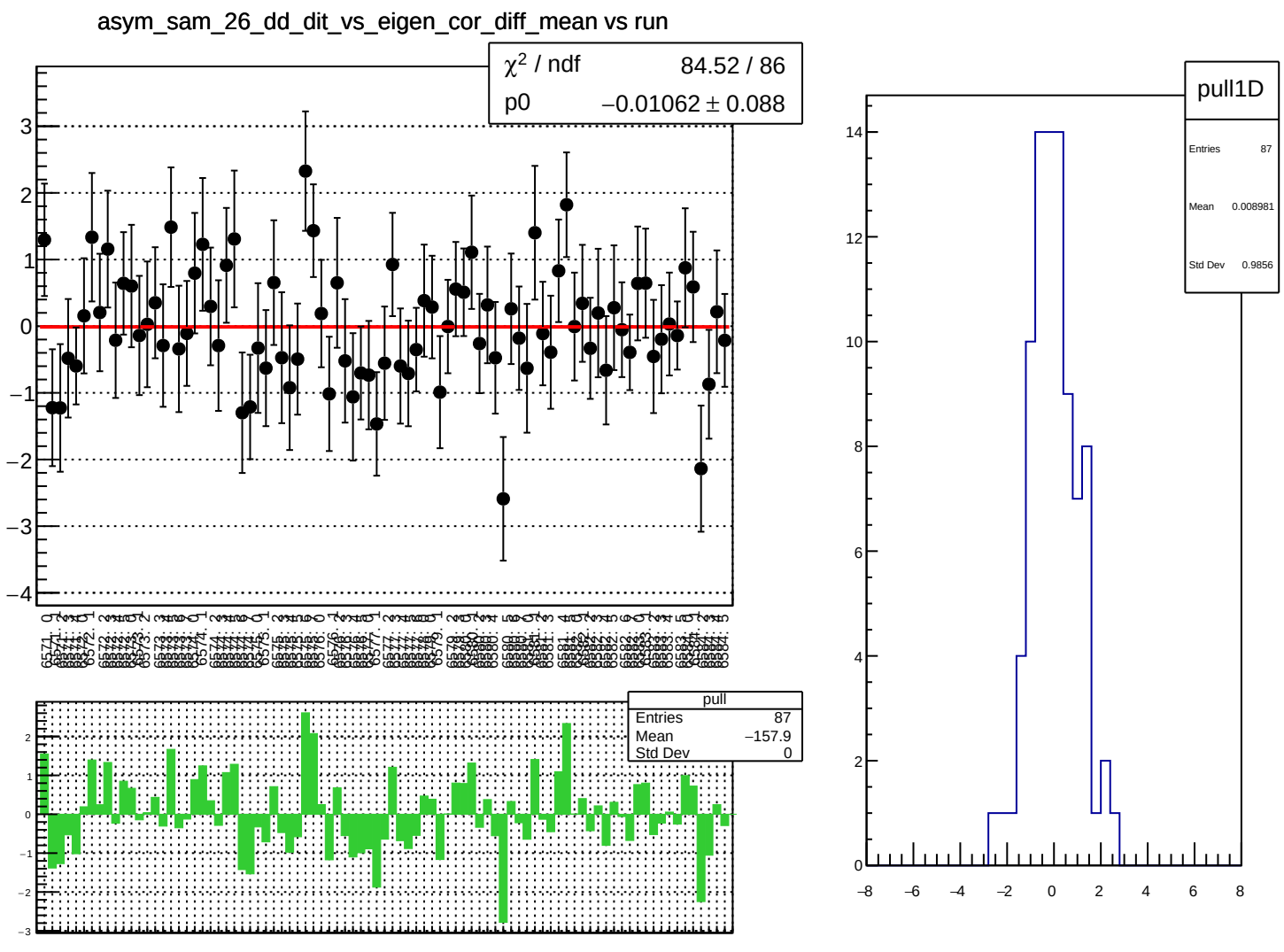

pull1D
Entries 87
Mean −0.001871
Std Dev 1.02

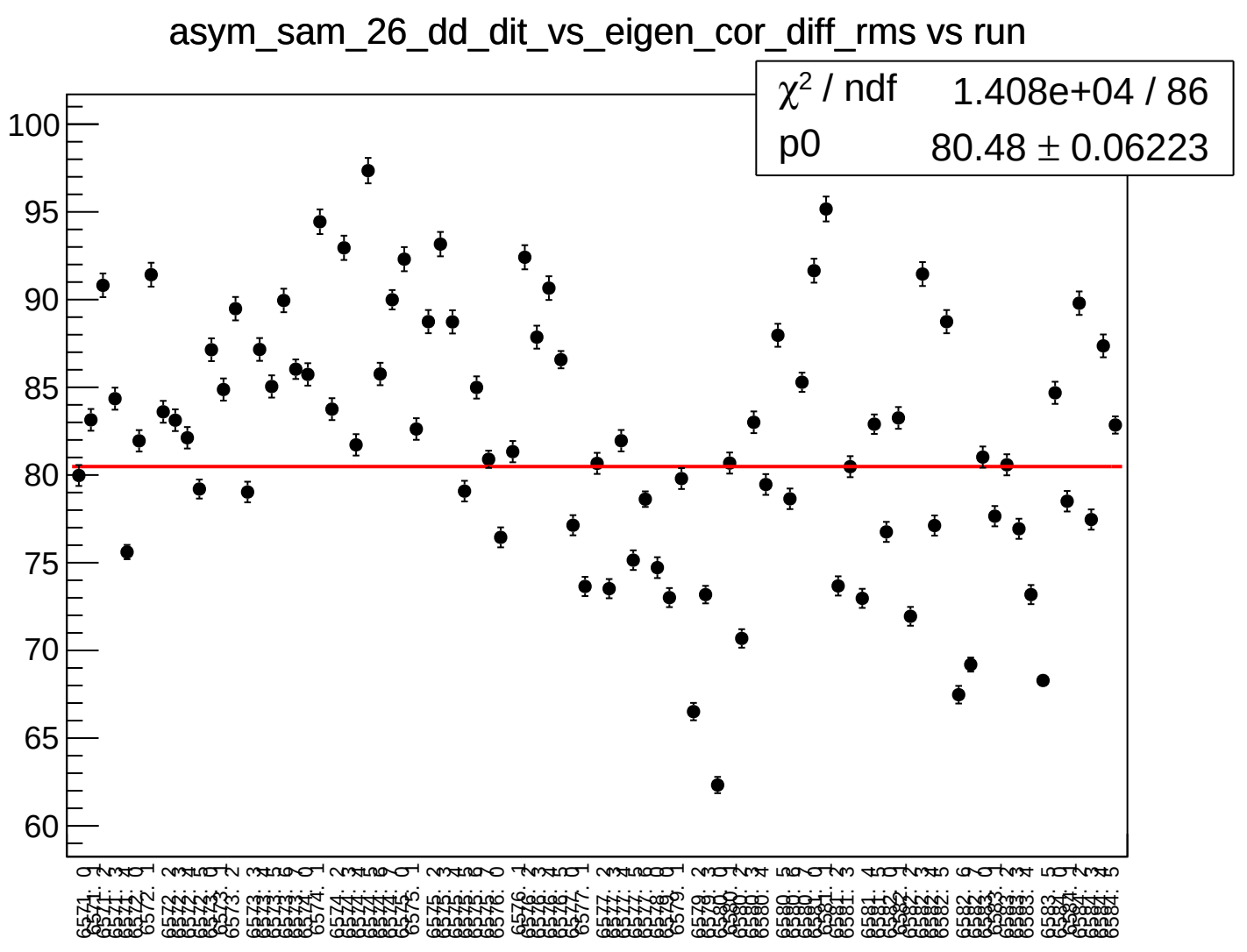

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.18e+06 / 86
p0 1.886e−11 ± 2.649e−14
0.1
0.08
0.06
0.04
0.02
0

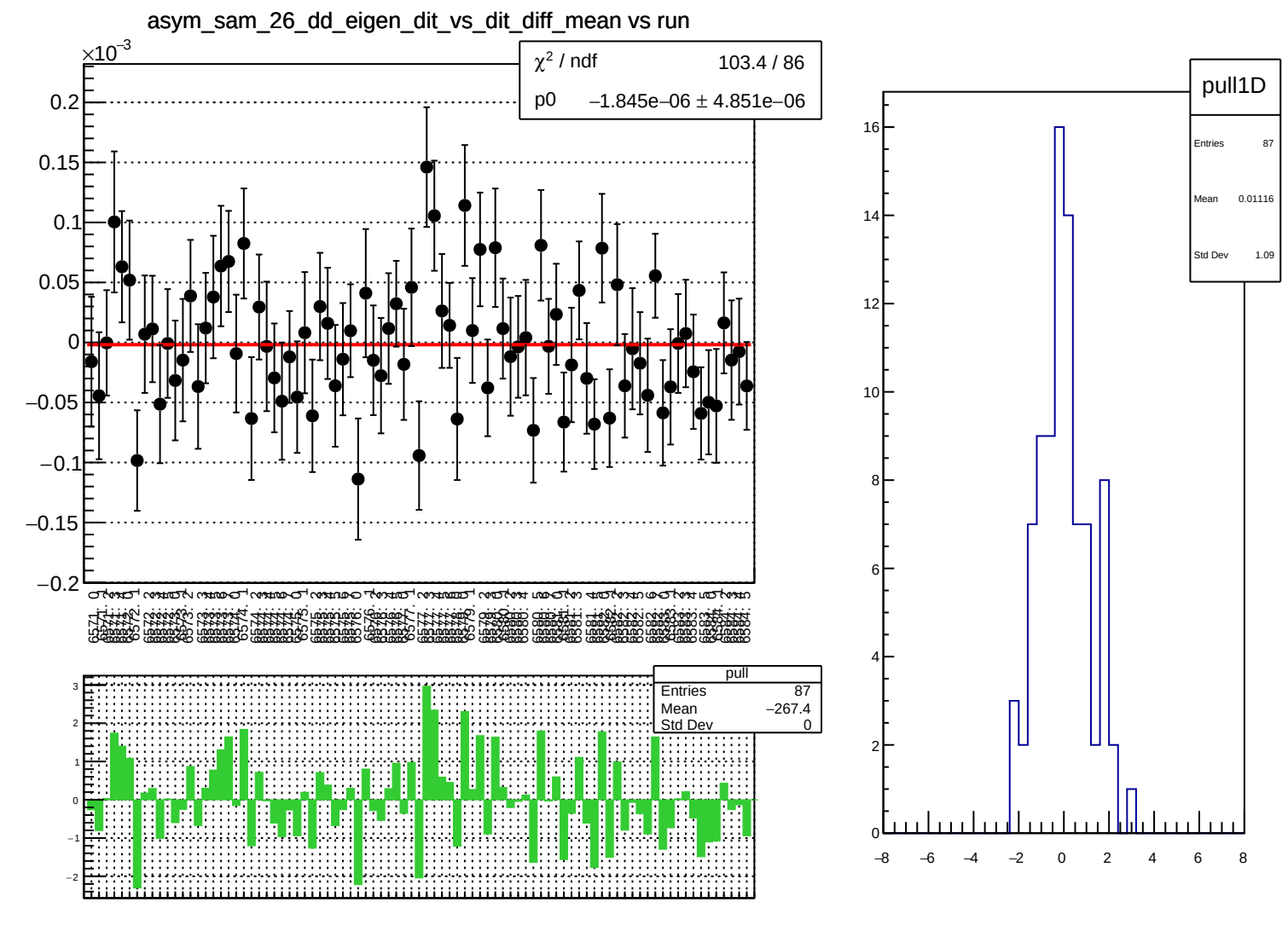

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.52 / 86
p0 −0.01062 ± 0.088
pull
Entries 87
Mean −157.9
Std Dev 0

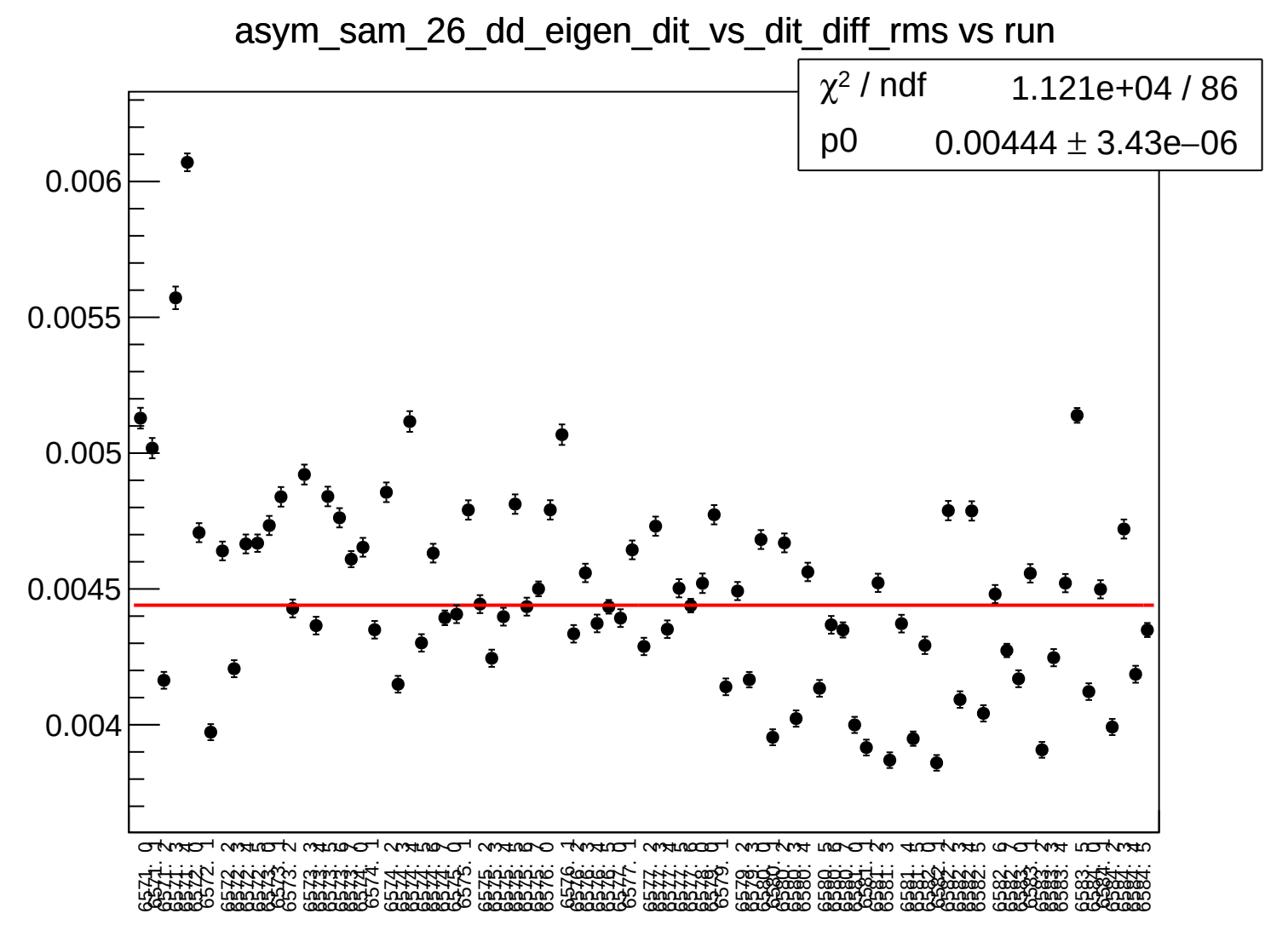

pull1D
Entries 87
Mean 0.008981
Std Dev 0.9856

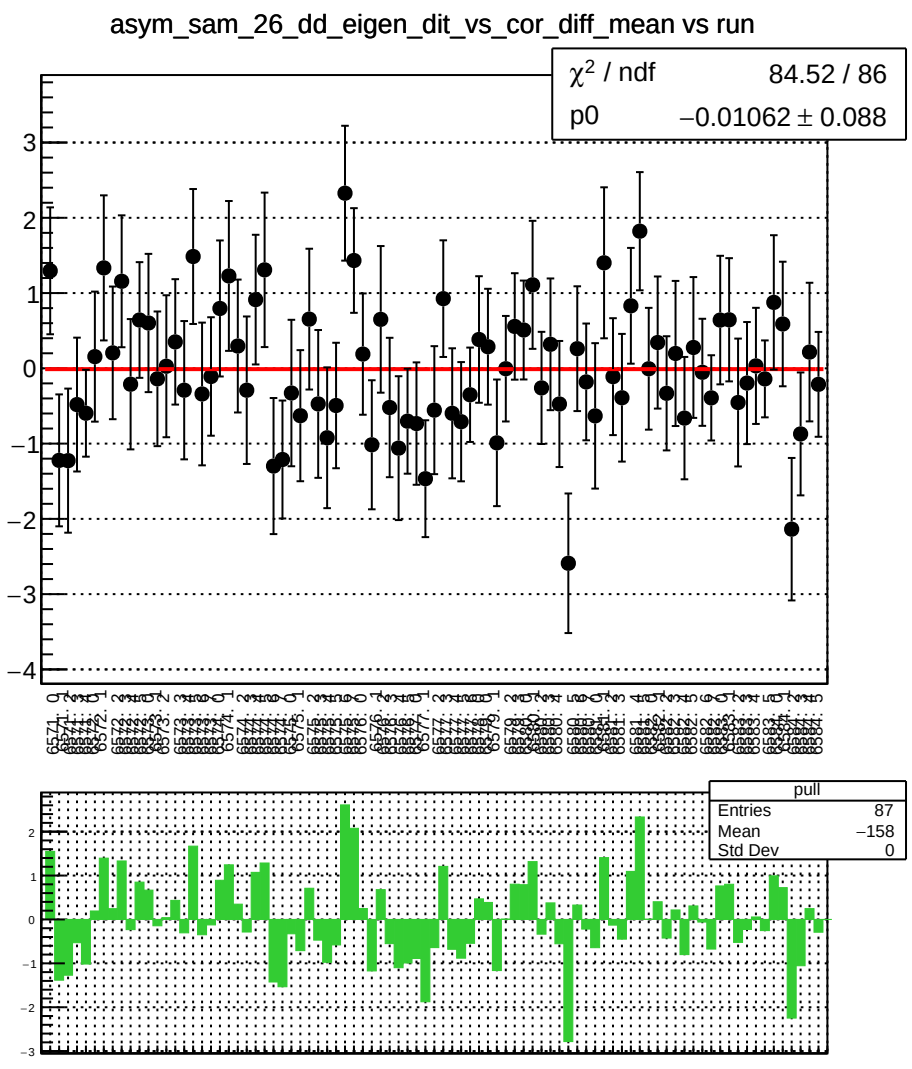

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 86
p0 80.48 ± 0.06223
100
95
90
85
80
75
70
65
60

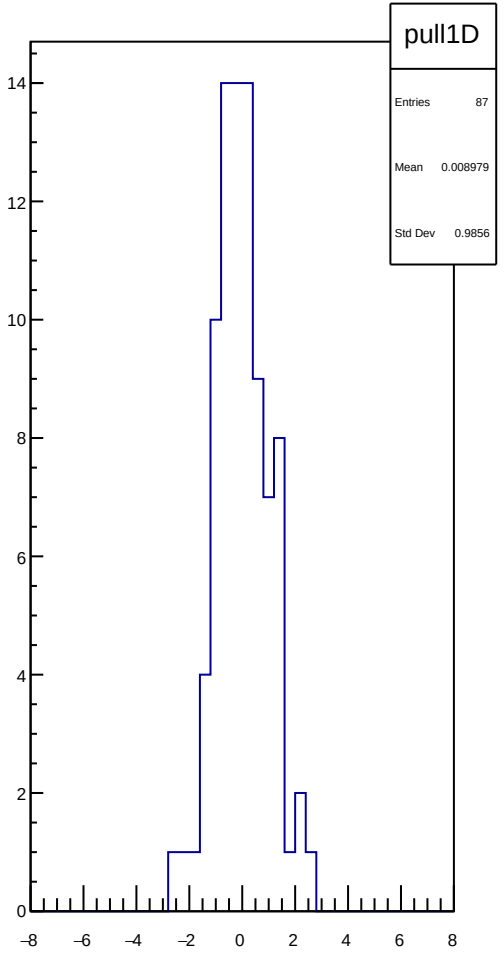

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.52 / 86
p0 −0.01062 ± 0.088
pull
Entries 87
Mean −157.9
Std Dev 0
pull1D
Entries 87
Mean 0.008981
Std Dev 0.9856

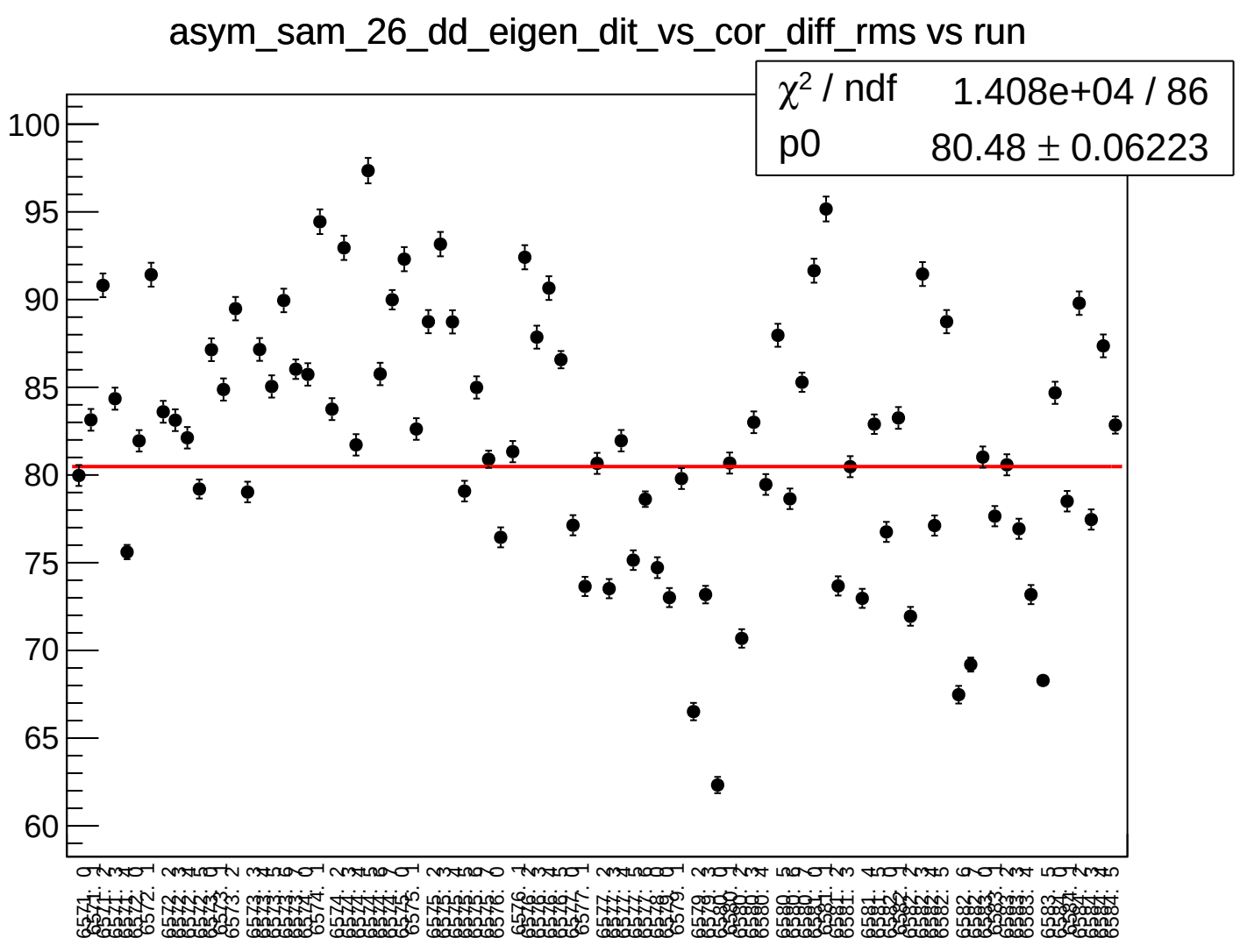

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 86
p0 80.48 ± 0.06223
100
95
90
85
80
75
70
65
60

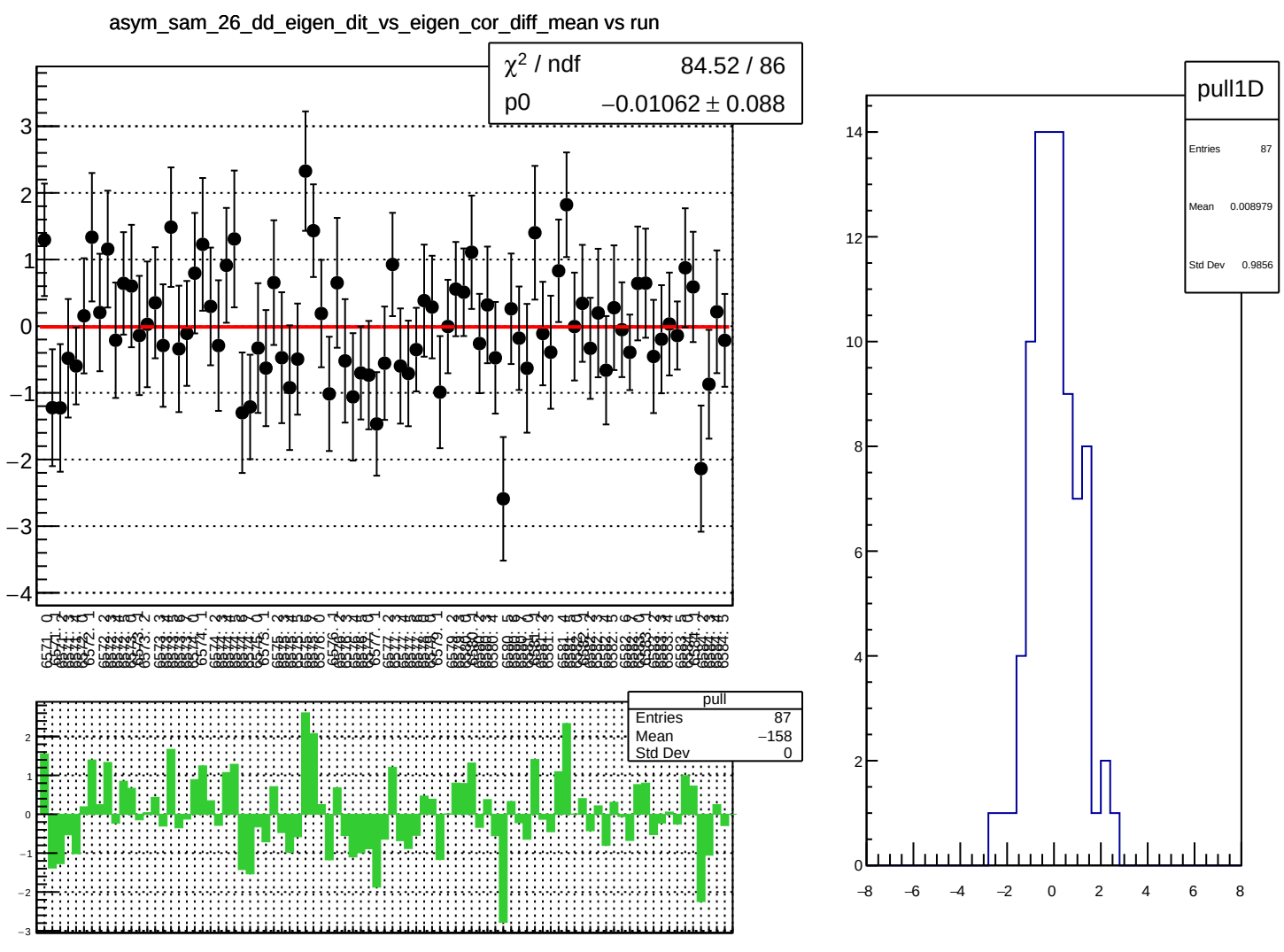

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103.4 / 86
p0 −1.845e−06 ± 4.851e−06
pull
Entries 87
Mean −267.4
Std Dev 0
pull1D
Entries 87
Mean 0.01116
Std Dev 1.09

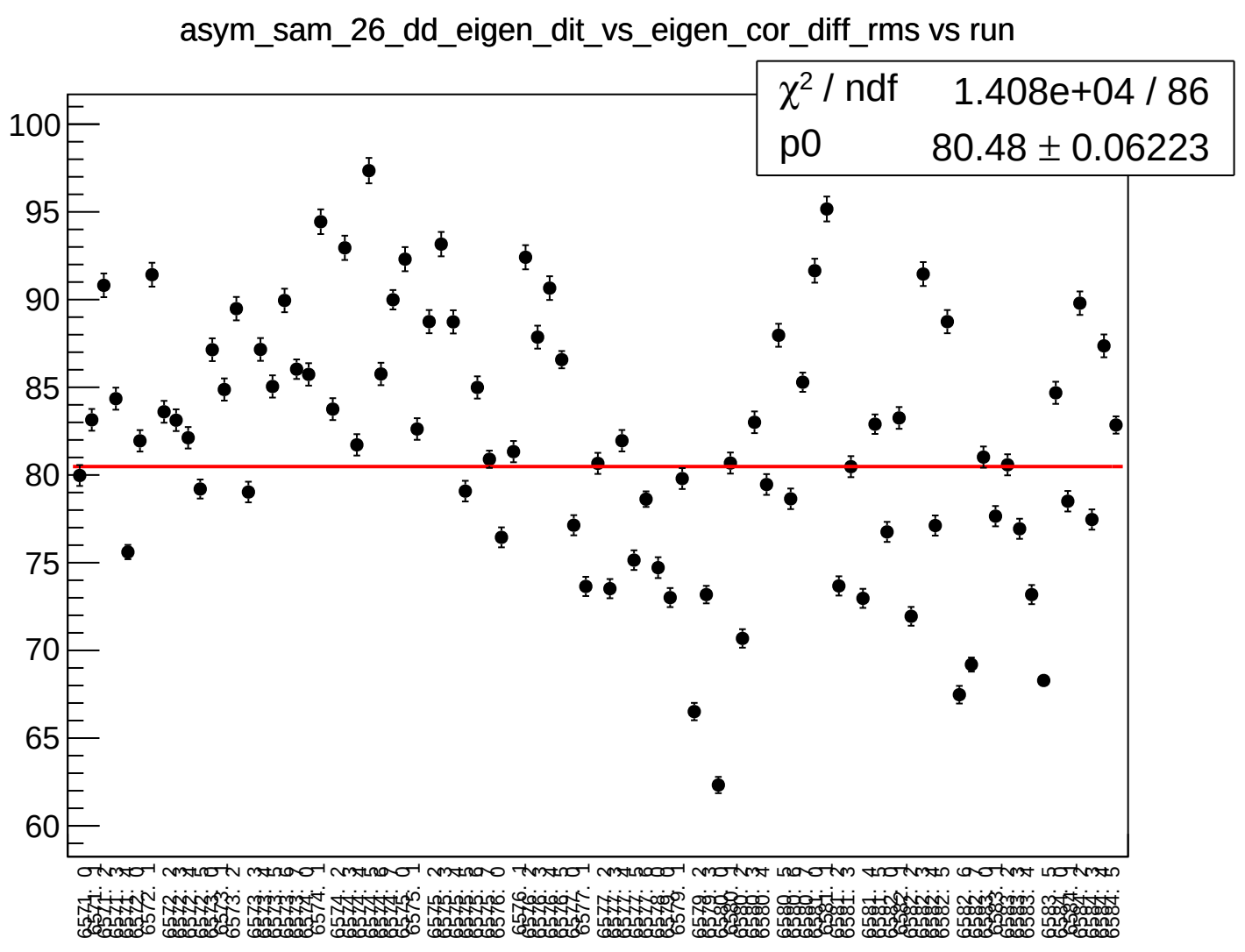

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.121e+04 / 86
p0 0.00444 ± 3.43e−06
0.006
0.0055
0.005
0.0045
0.004

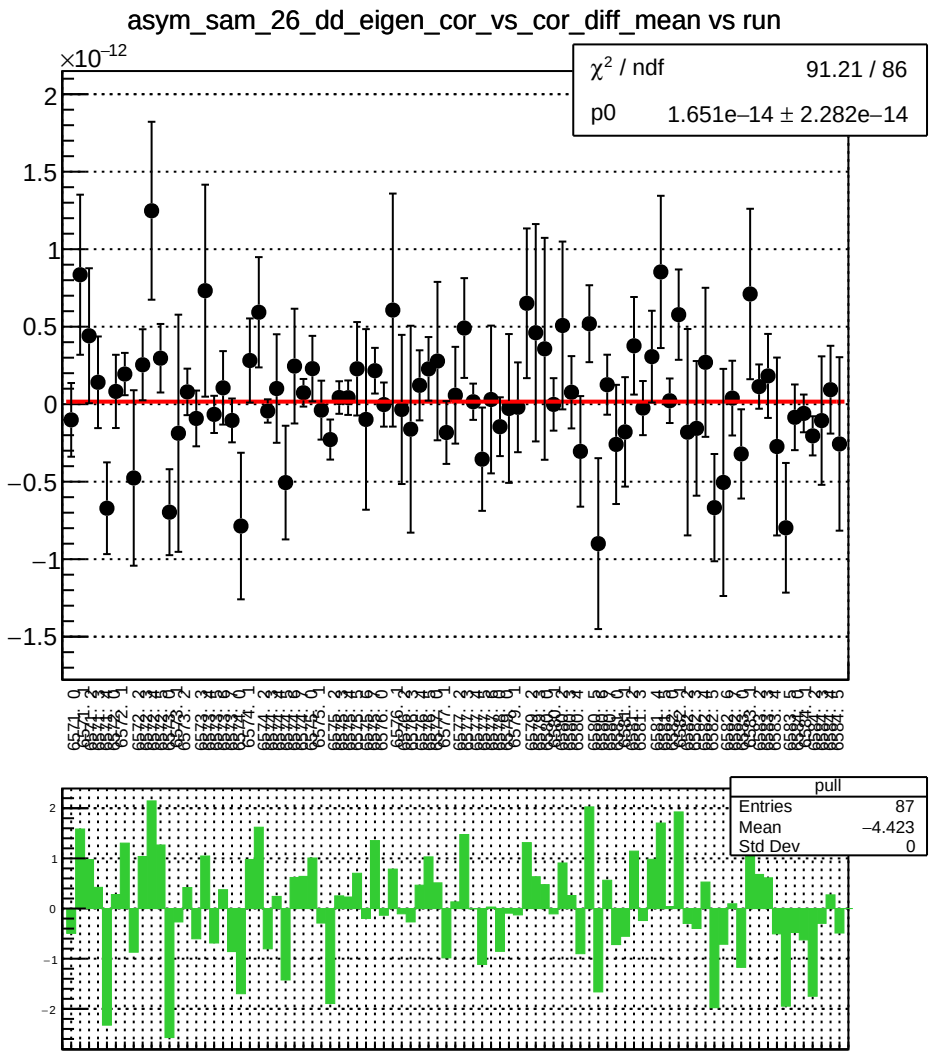

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.52 / 86
p0 −0.01062 ± 0.088
pull
Entries 87
Mean −158
Std Dev 0

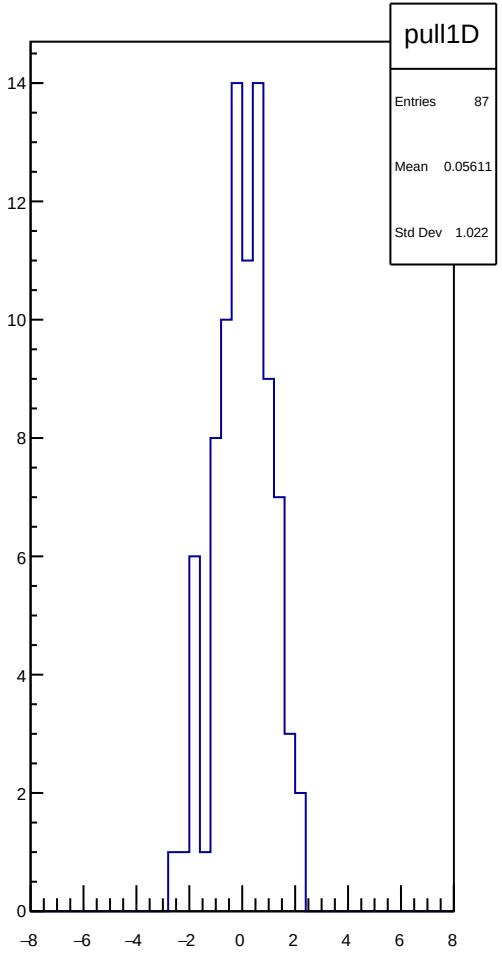

pull1D
Entries 87
Mean 0.008979
Std Dev 0.9856

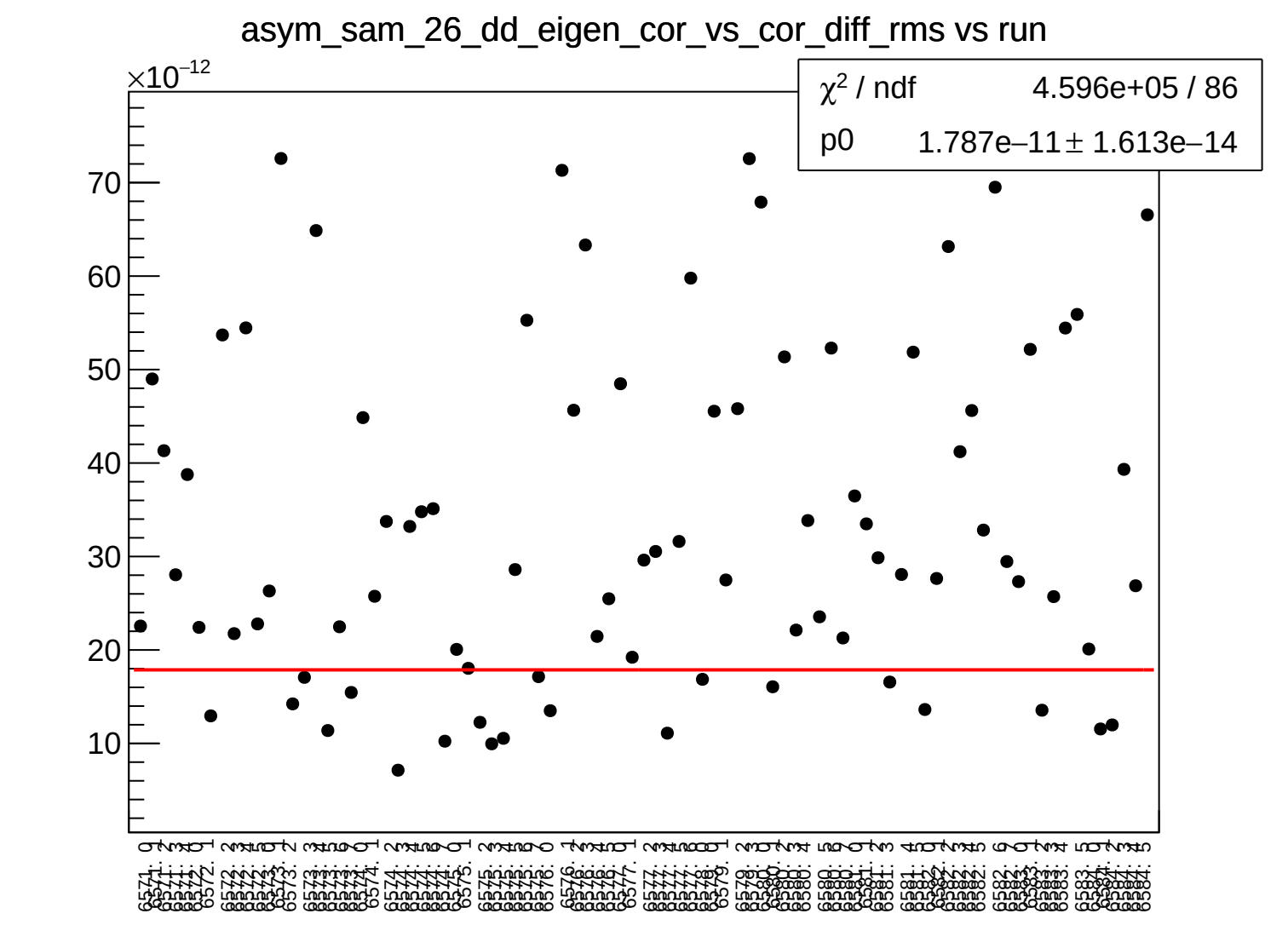

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 86
p0 80.48 ± 0.06223
100
95
90
85
80
75
70
65
60

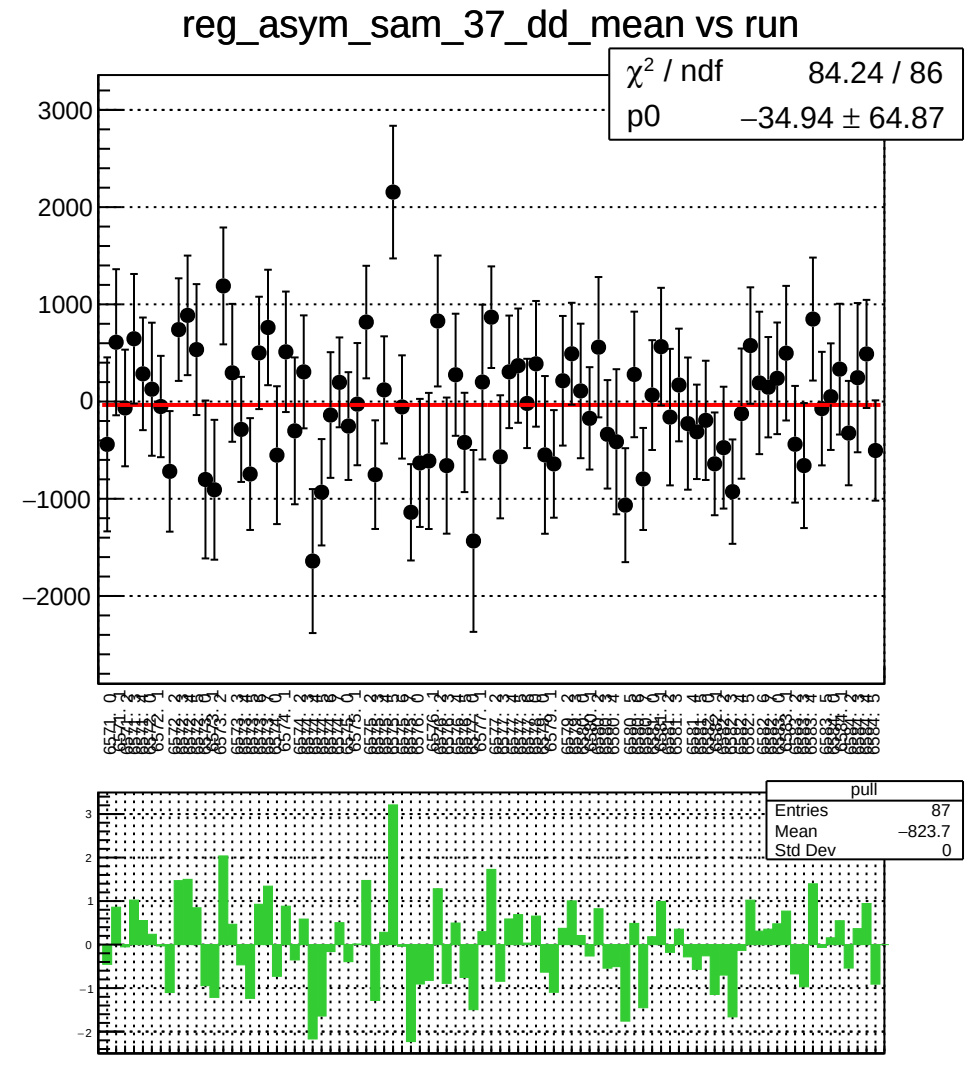

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.52 / 86
p0 −0.01062 ± 0.088
pull
Entries 87
Mean −158
Std Dev 0
pull1D
Entries 87
Mean 0.008979
Std Dev 0.9856

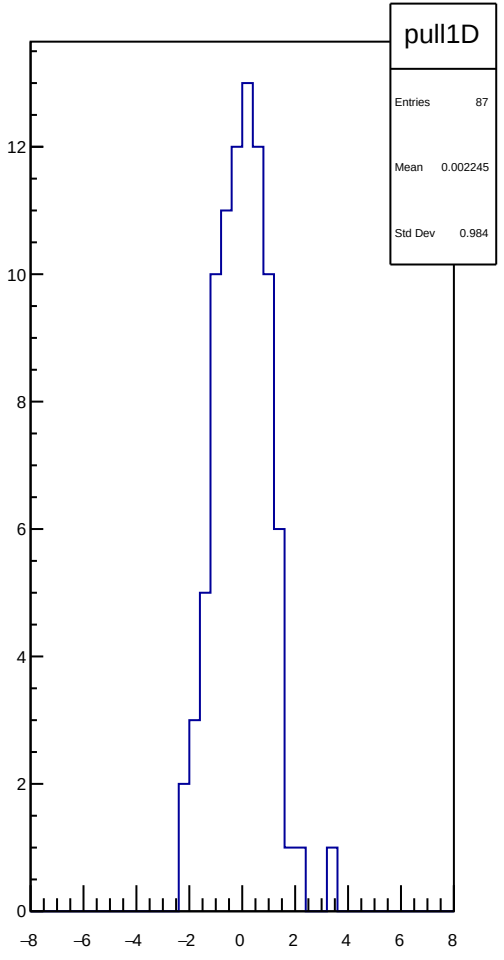

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 86
p0 80.48 ± 0.06223
100
95
90
85
80
75
70
65
60

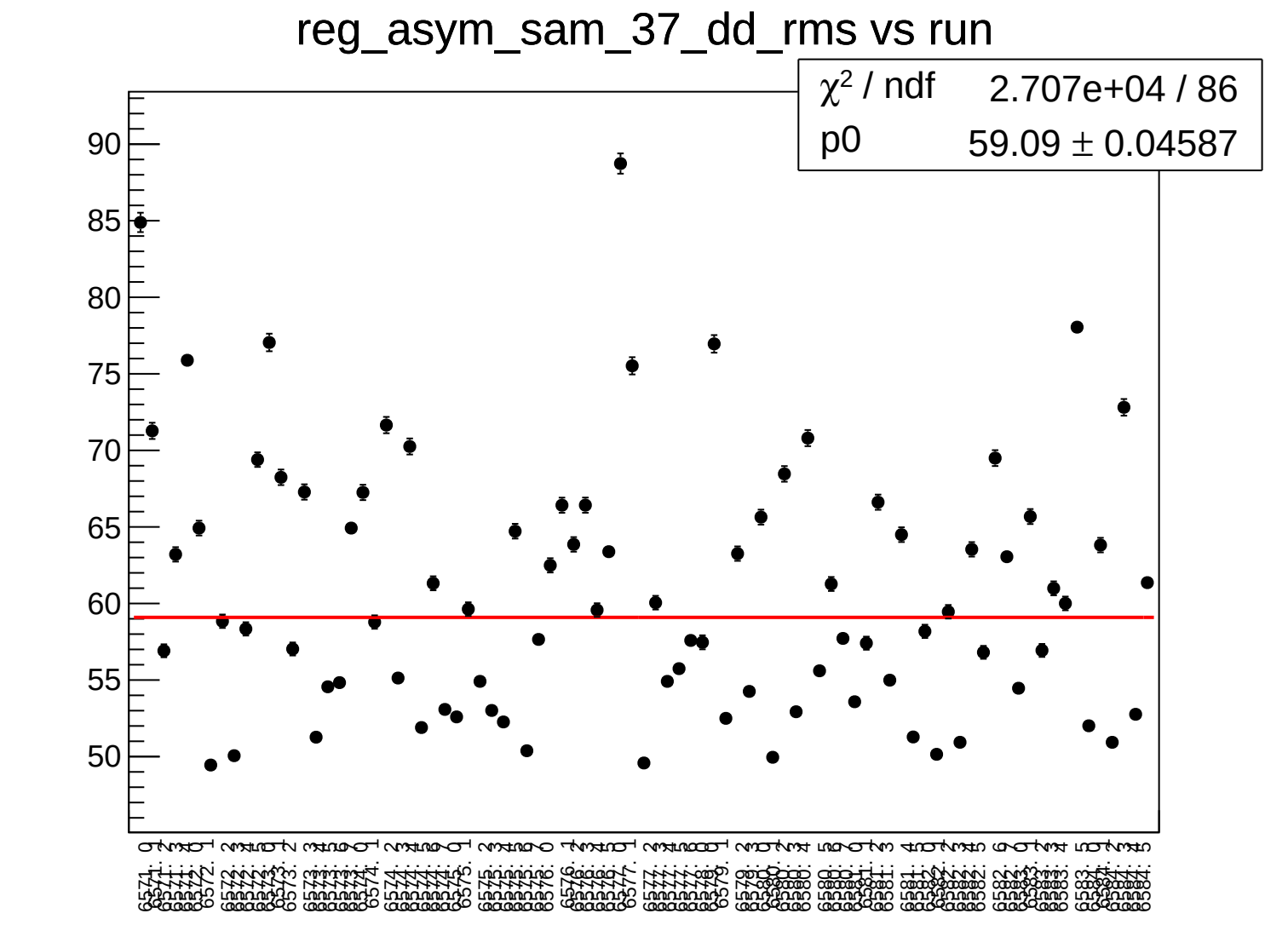

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.21 / 86
p0 1.651e−14 ± 2.282e−14
pull
Entries 87
Mean −4.423
Std Dev 0

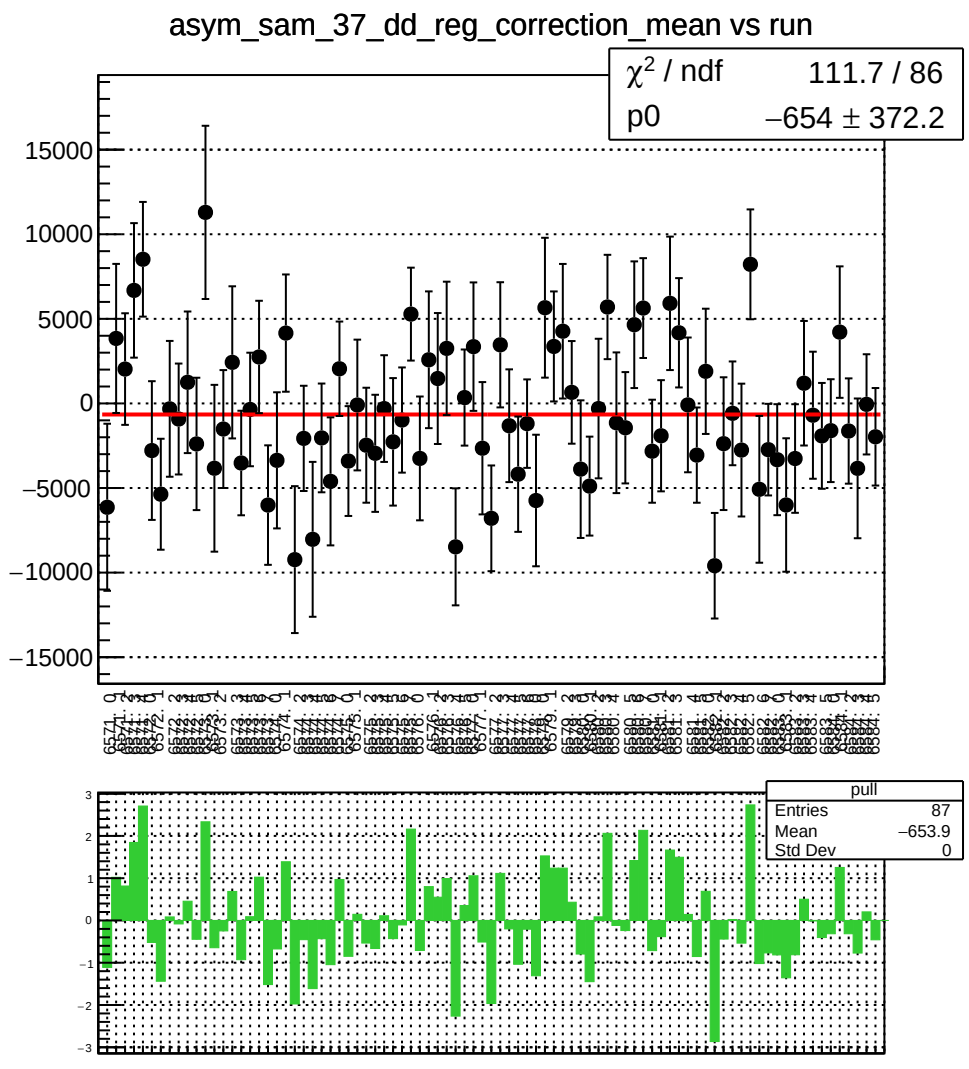

pull1D
Entries 87
Mean 0.05611
Std Dev 1.022

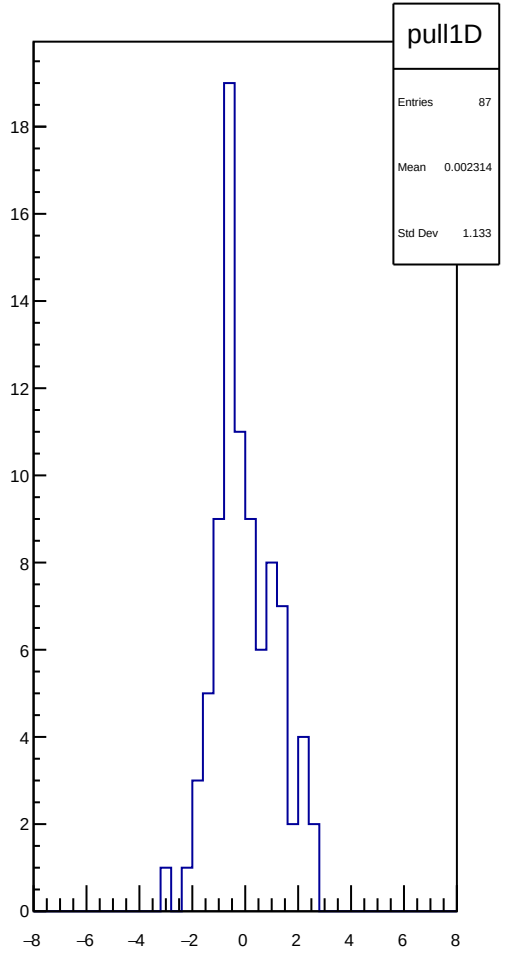

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.596e+05 / 86
p0 1.787e−11 ± 1.613e−14
70
60
50
40
30
20
10

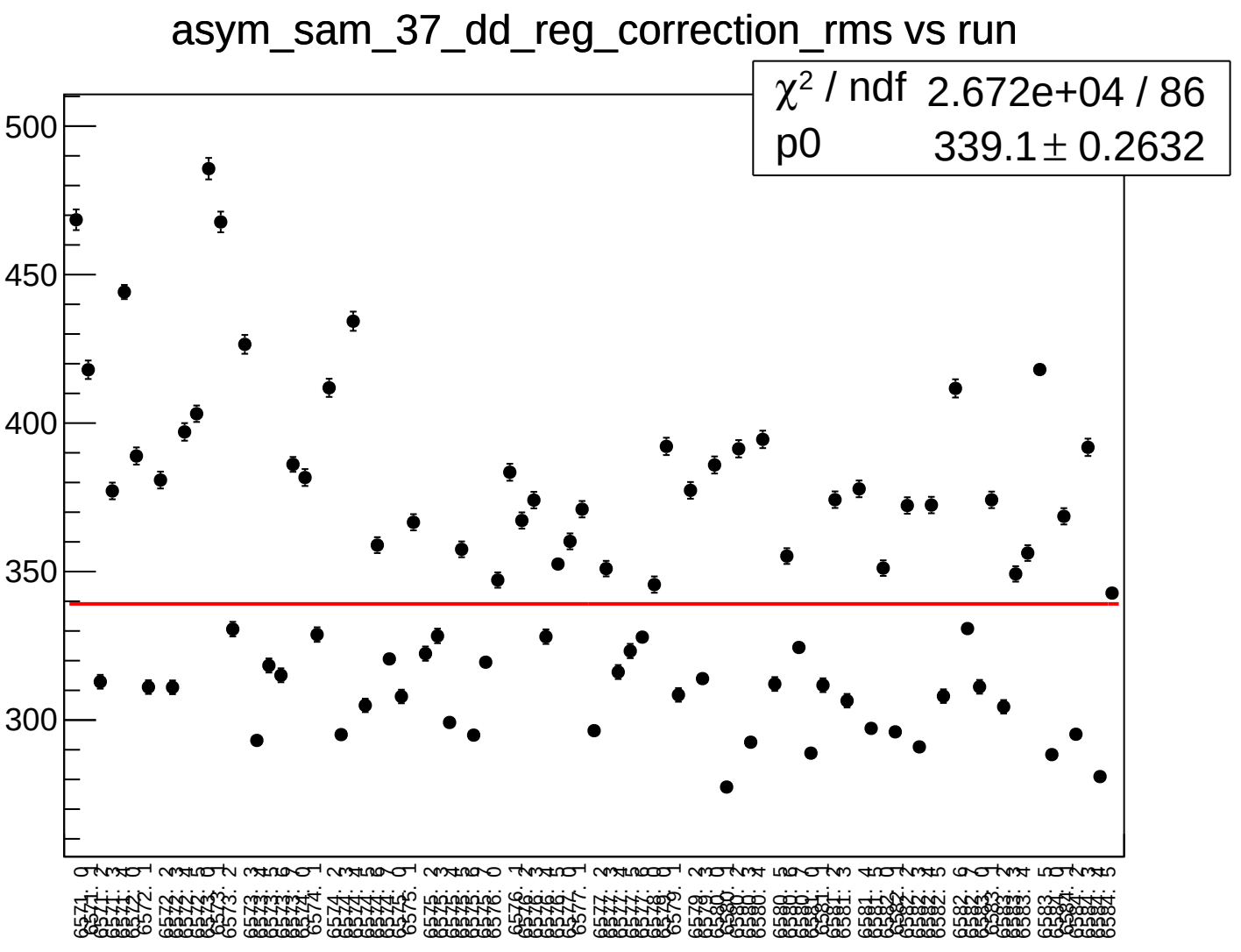

reg_asym_sam_37_dd_mean vs run
χ² / ndf 84.24 / 86
p0 −34.94 ± 64.87
pull
Entries 87
Mean −823.7
Std Dev 0

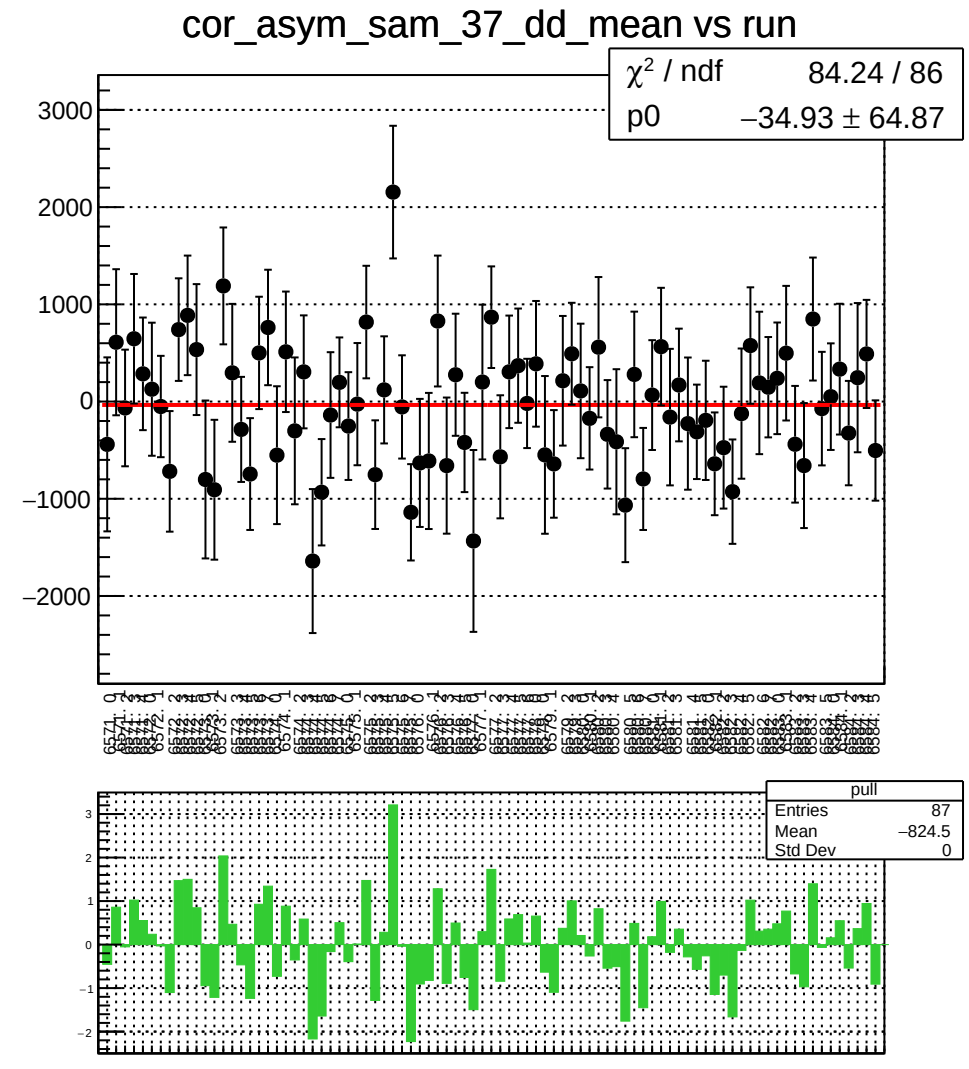

pull1D
Entries 87
Mean 0.002245
Std Dev 0.984

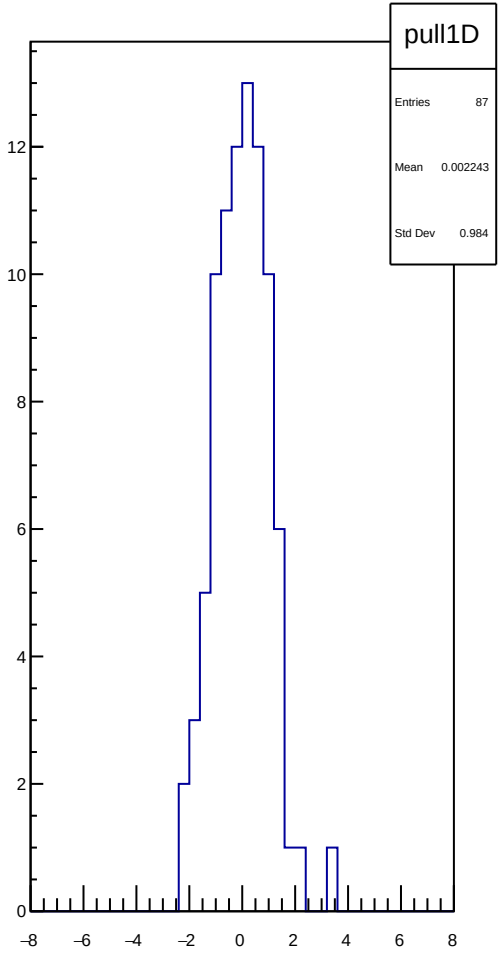

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.707e+04 / 86
p0 59.09 ± 0.04587
90
85
80
75
70
65
60
55
50


asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 111.7 / 86
p0 −654 ± 372.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −653.9
Std Dev 0
3
2
1
0
−1
−2
−3

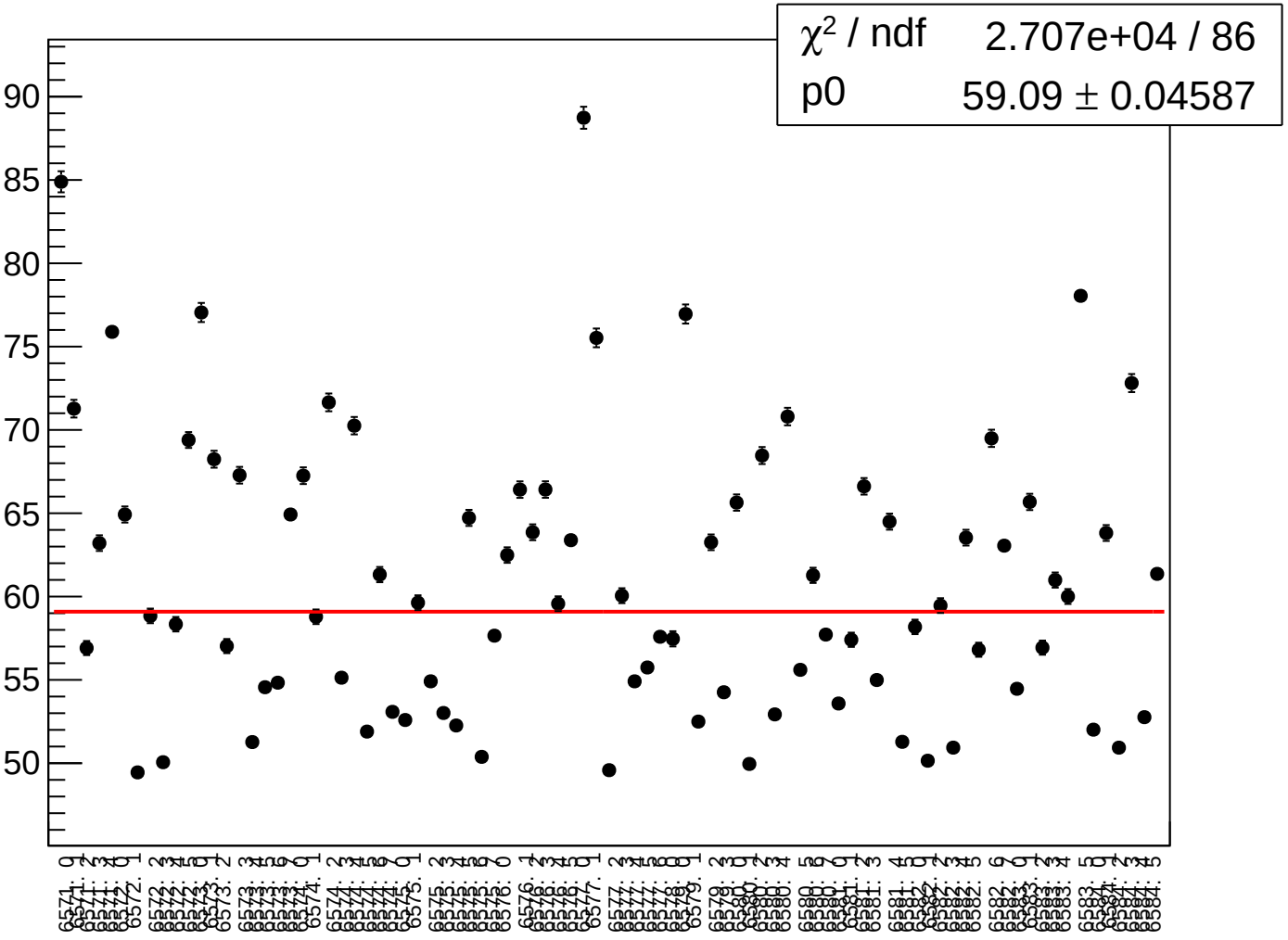

pull1D
Entries 87
Mean 0.002314
Std Dev 1.133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

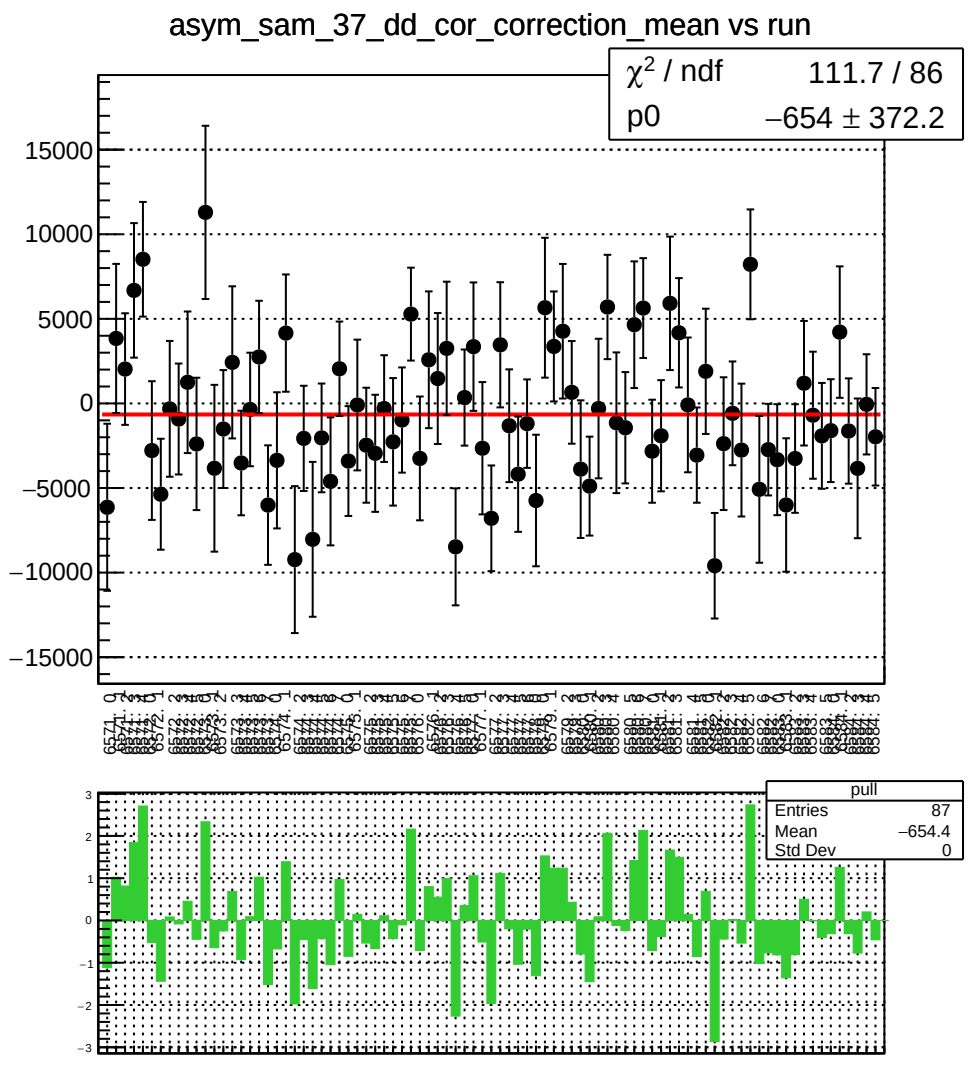

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2.672e+04 / 86
p0 339.1 ± 0.2632
500
450
400
350
300

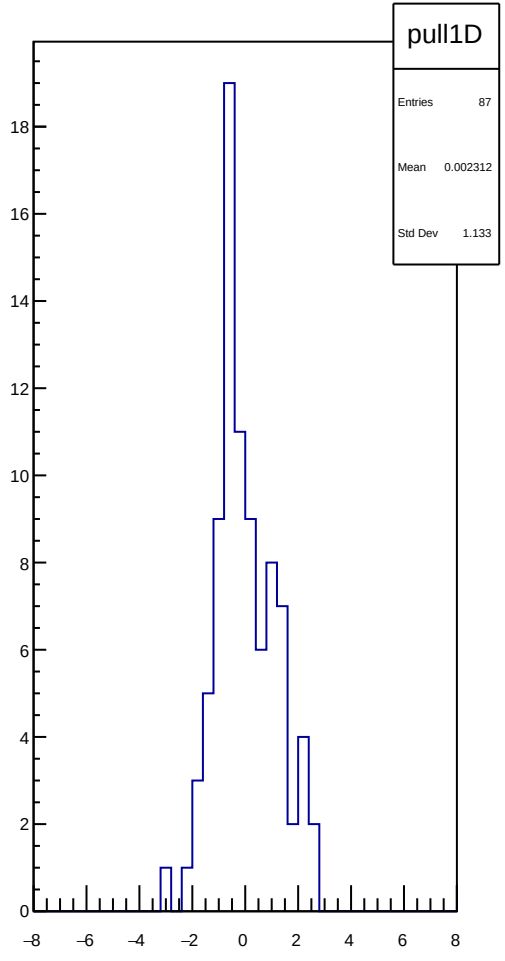

cor_asym_sam_37_dd_mean vs run
χ² / ndf 84.24 / 86
p0 −34.93 ± 64.87
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −824.5
Std Dev 0
3
2
1
0
−1
−2

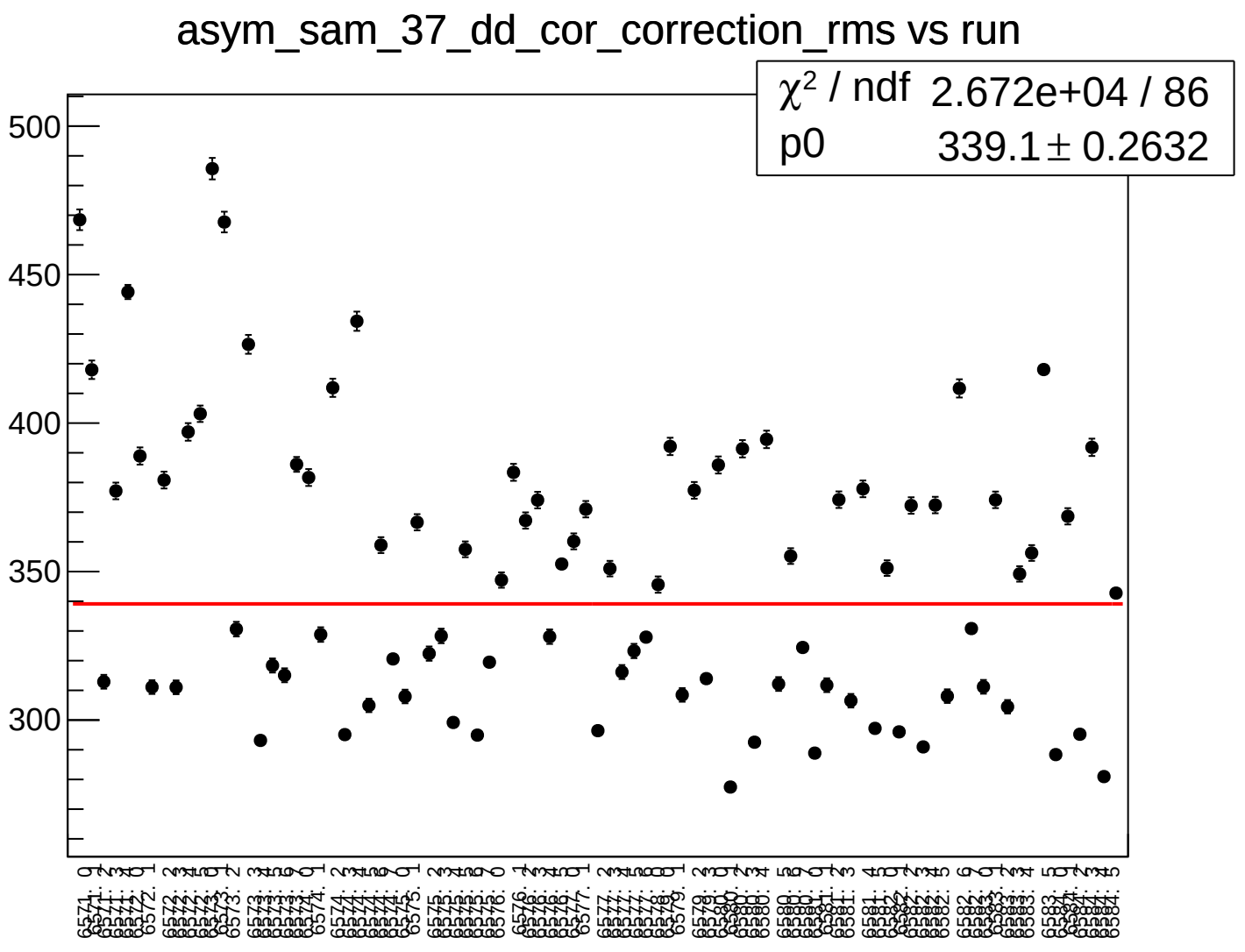

pull1D
Entries 87
Mean 0.002243
Std Dev 0.984
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

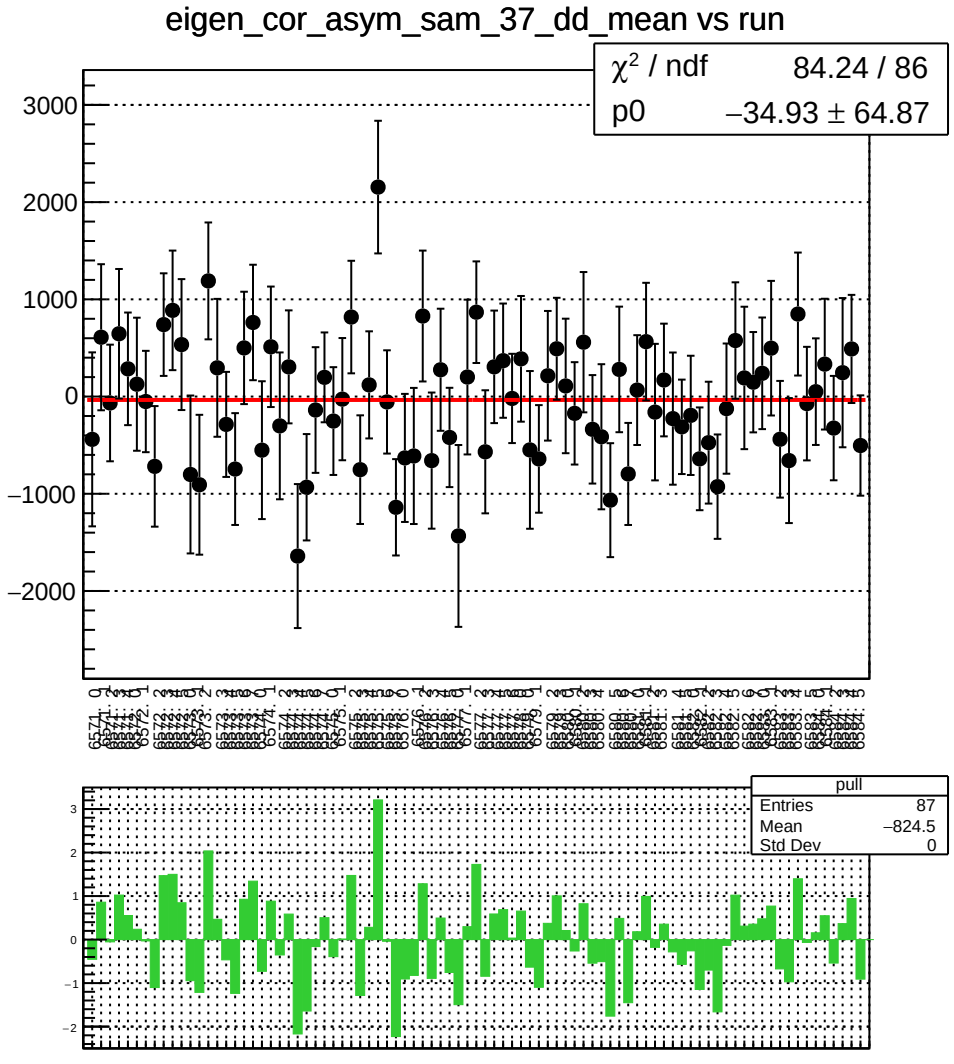
cor_asym_sam_37_dd_rms vs run

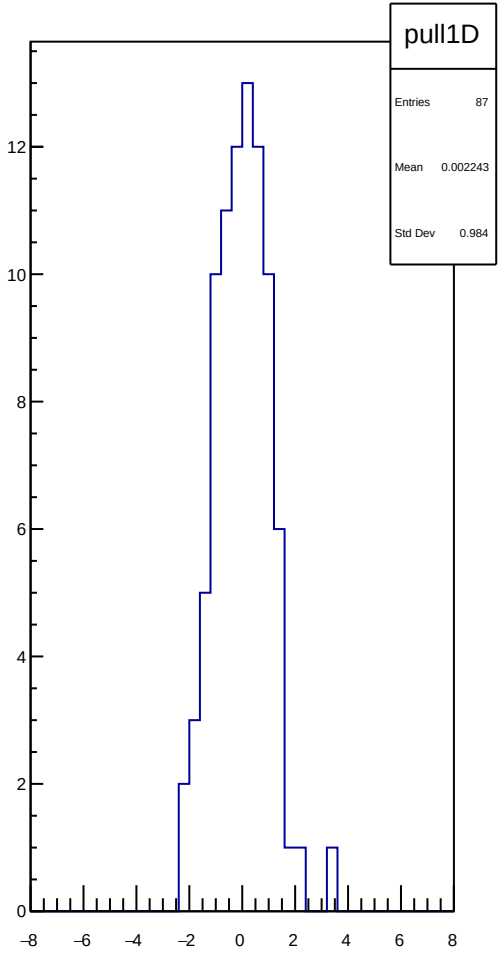


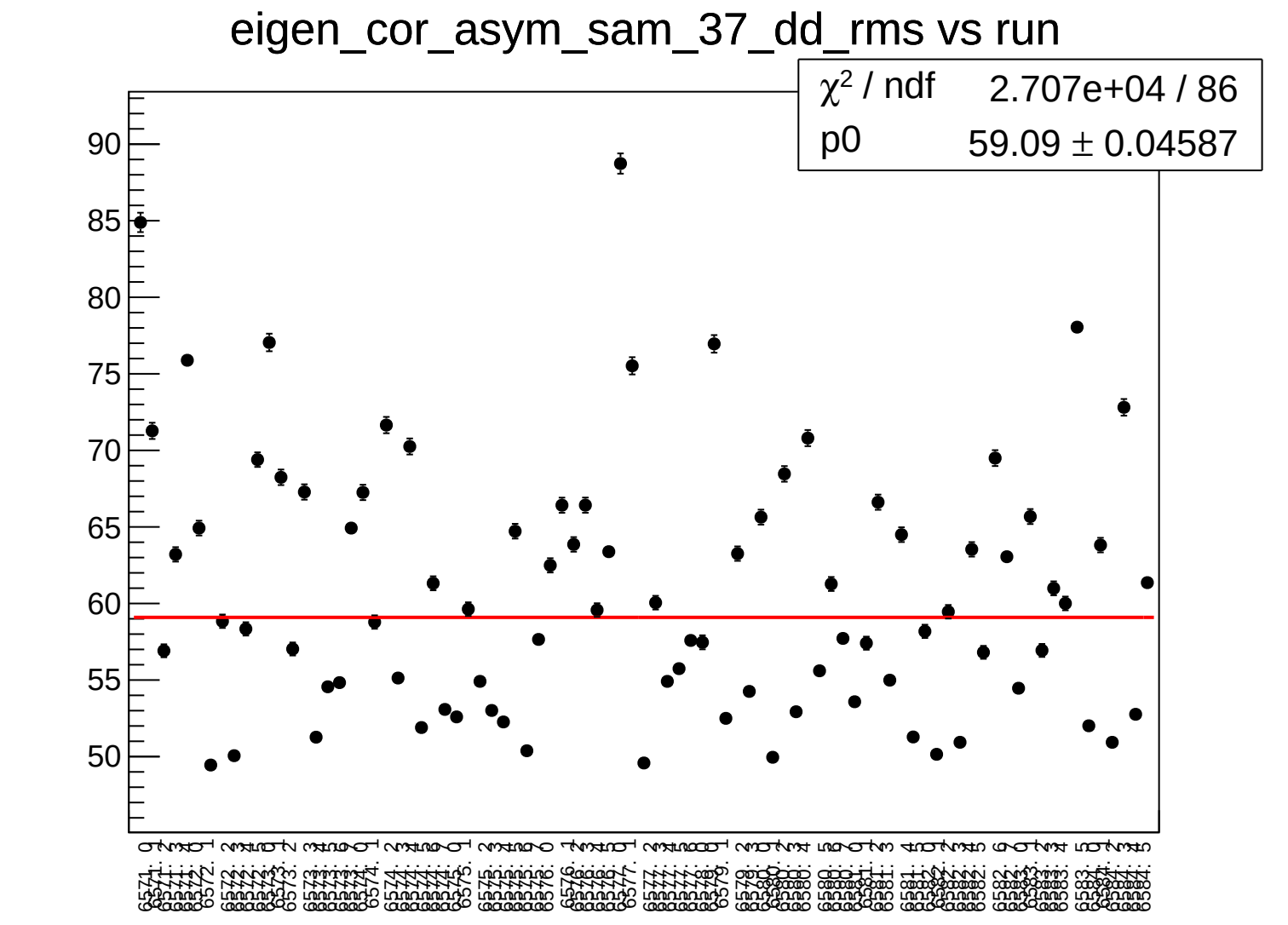

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 111.7 / 86
p0 −654 ± 372.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −654.4
Std Dev 0
3
2
1
0
−1
−2
−3

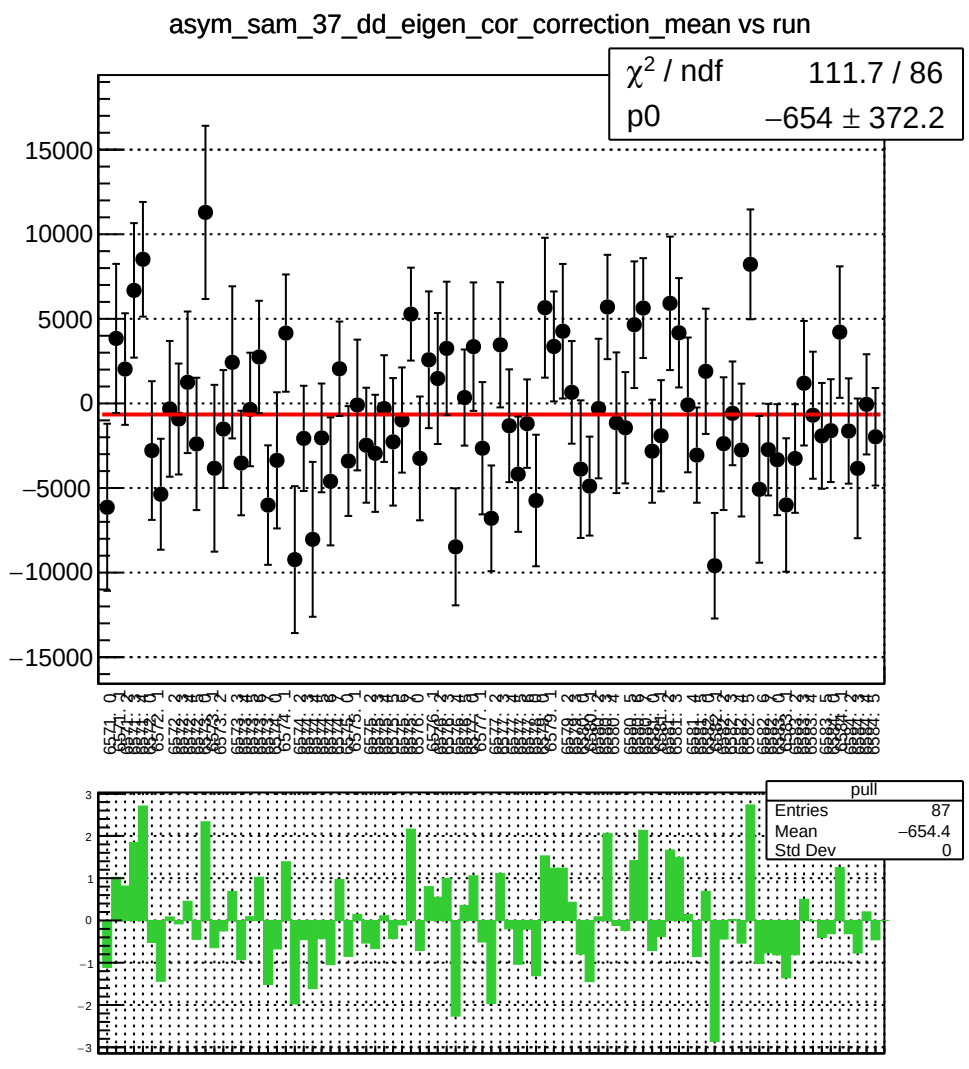

pull1D
Entries 87
Mean 0.002312
Std Dev 1.133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

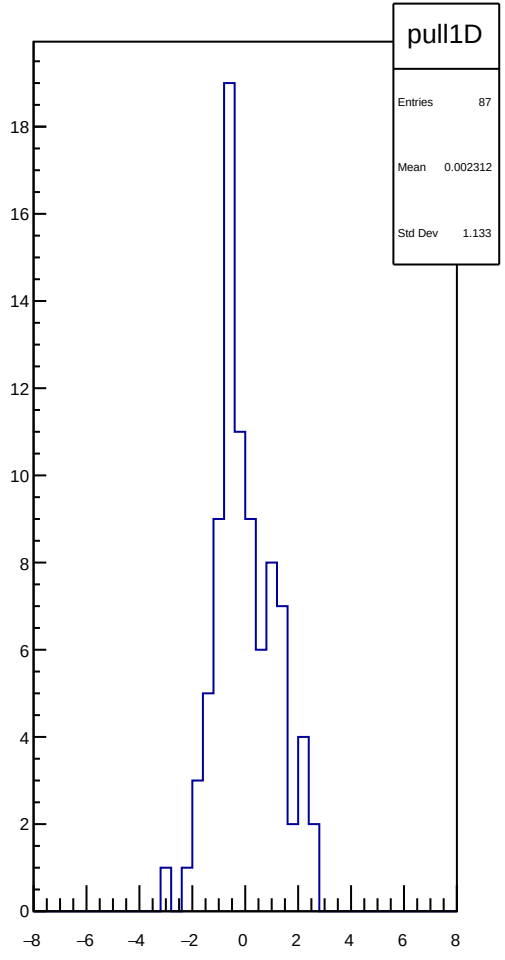

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2.672e+04 / 86
p0 339.1 ± 0.2632
500
450
400
350
300

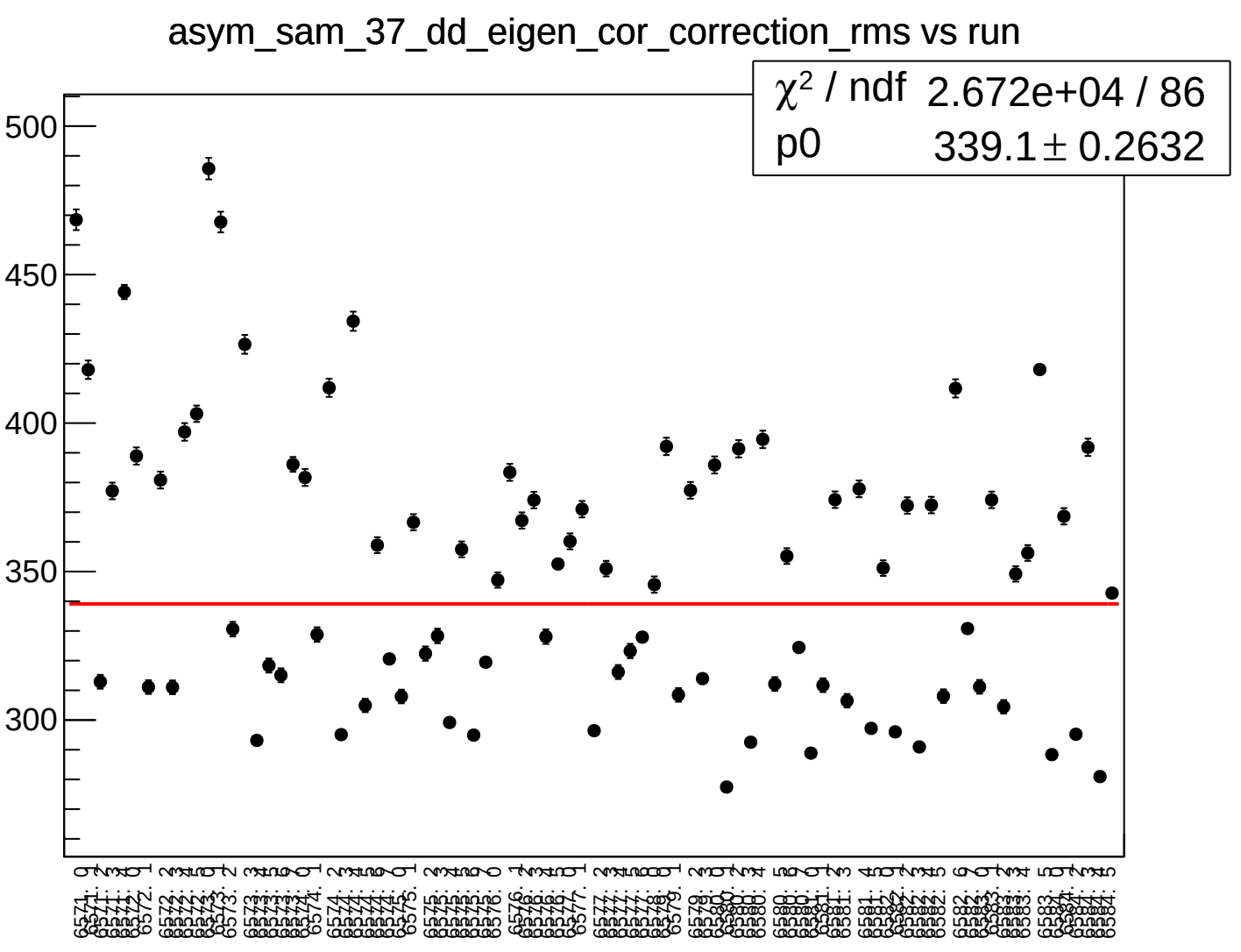

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 84.24 / 86
p0 −34.93 ± 64.87
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −824.5
Std Dev 0
3
2
1
0
−1
−2

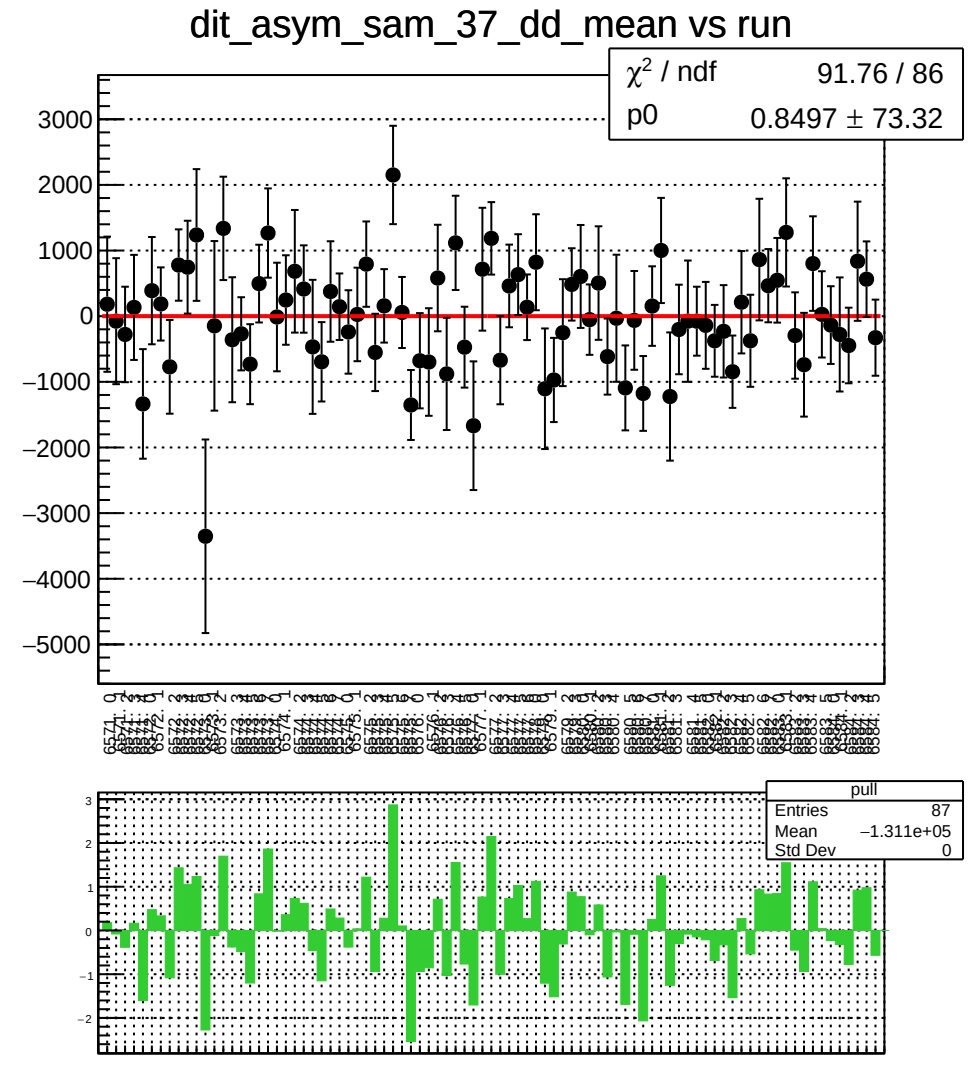

pull1D
Entries 87
Mean 0.002243
Std Dev 0.984
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

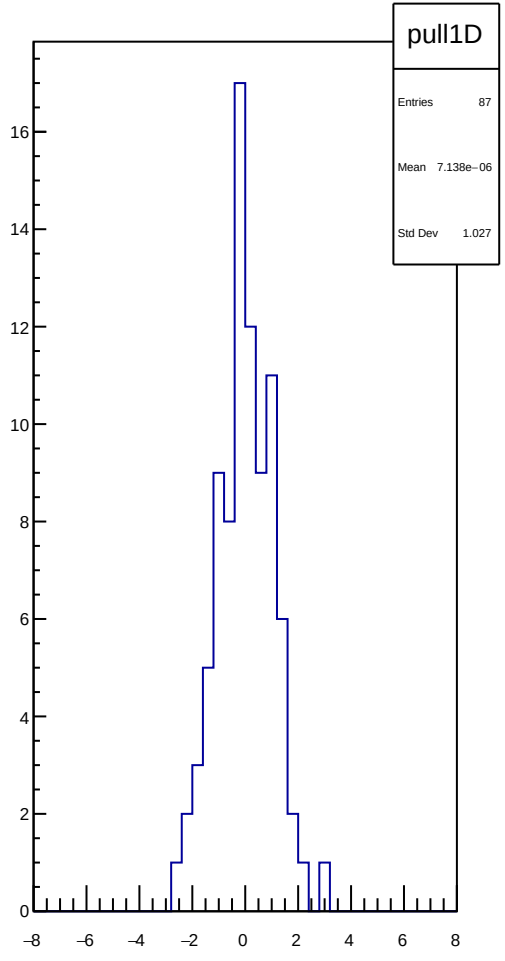

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.707e+04 / 86
p0 59.09 ± 0.04587
90
85
80
75
70
65
60
55
50

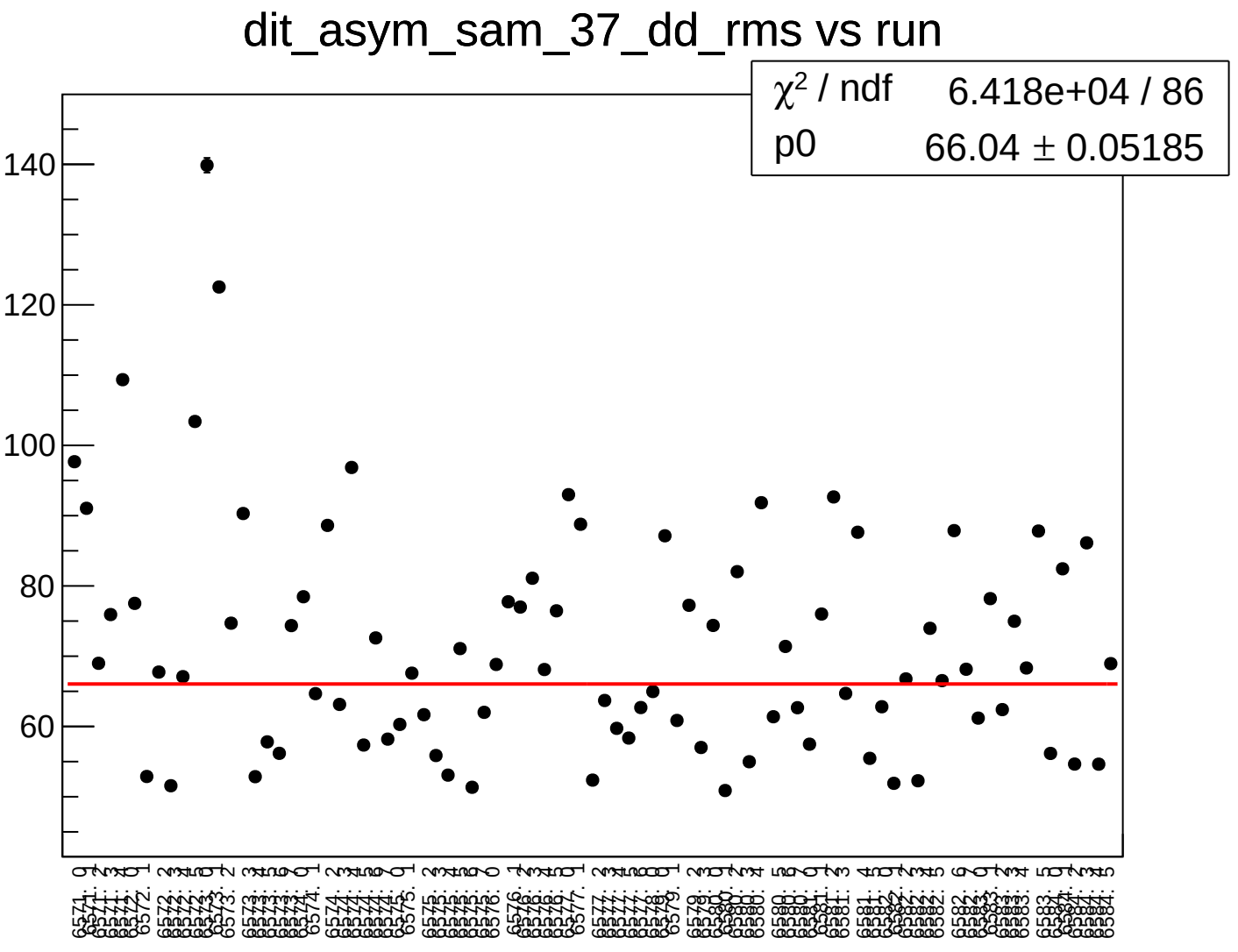

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 111.7 / 86
p0 −654 ± 372.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −654.4
Std Dev 0
3
2
1
0
−1
−2
−3

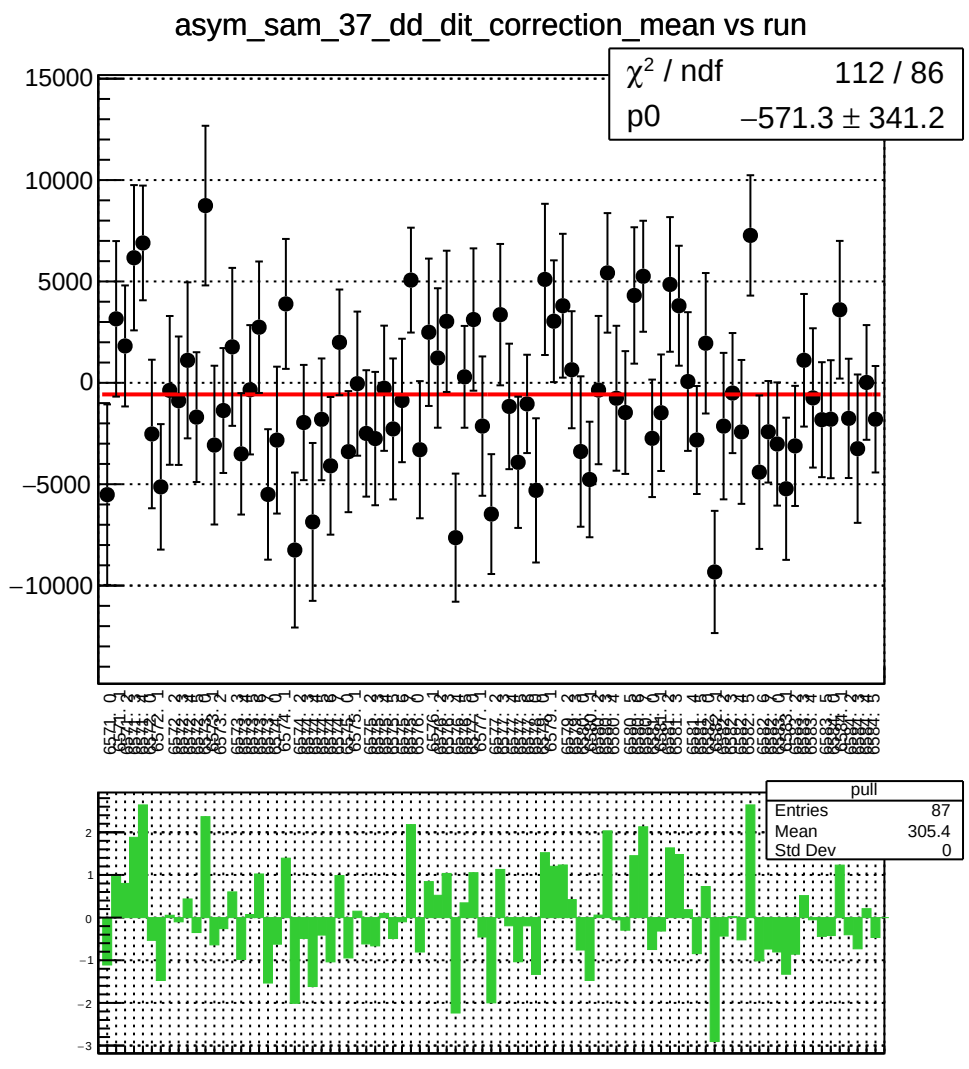

pull1D
Entries 87
Mean 0.002312
Std Dev 1.133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

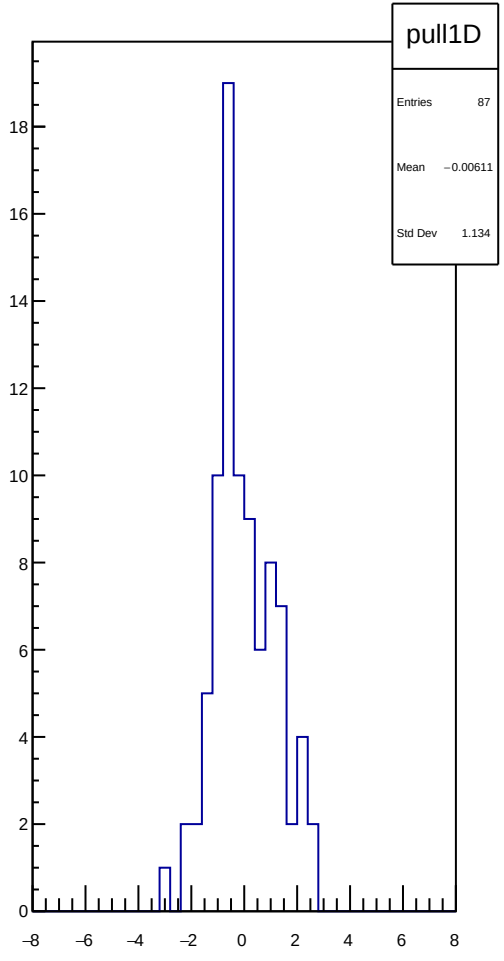

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.672e+04 / 86
p0 339.1 ± 0.2632
500
450
400
350
300

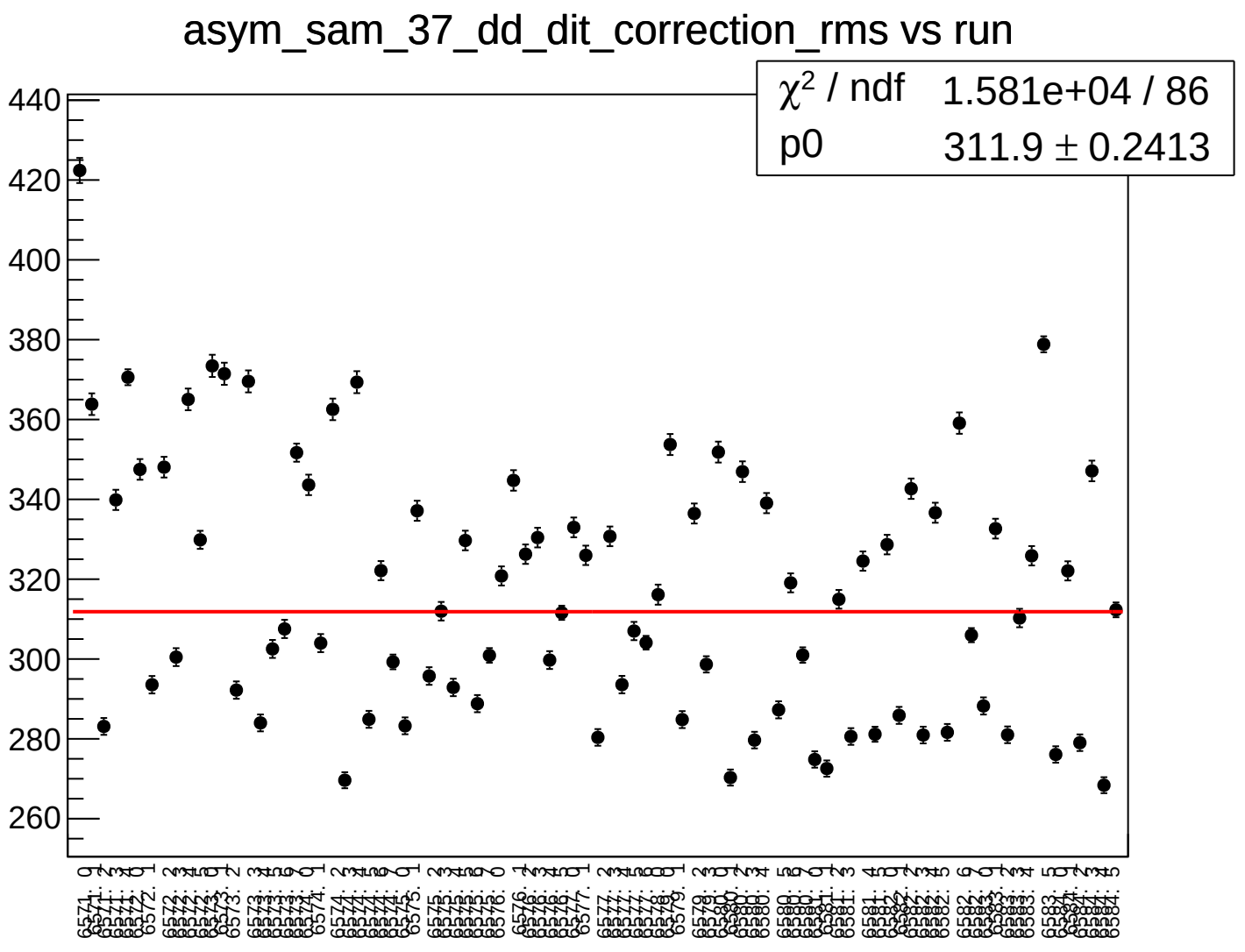

dit_asym_sam_37_dd_mean vs run
χ² / ndf 91.76 / 86
p0 0.8497 ± 73.32
pull
Entries 87
Mean −1.311e+05
Std Dev 0

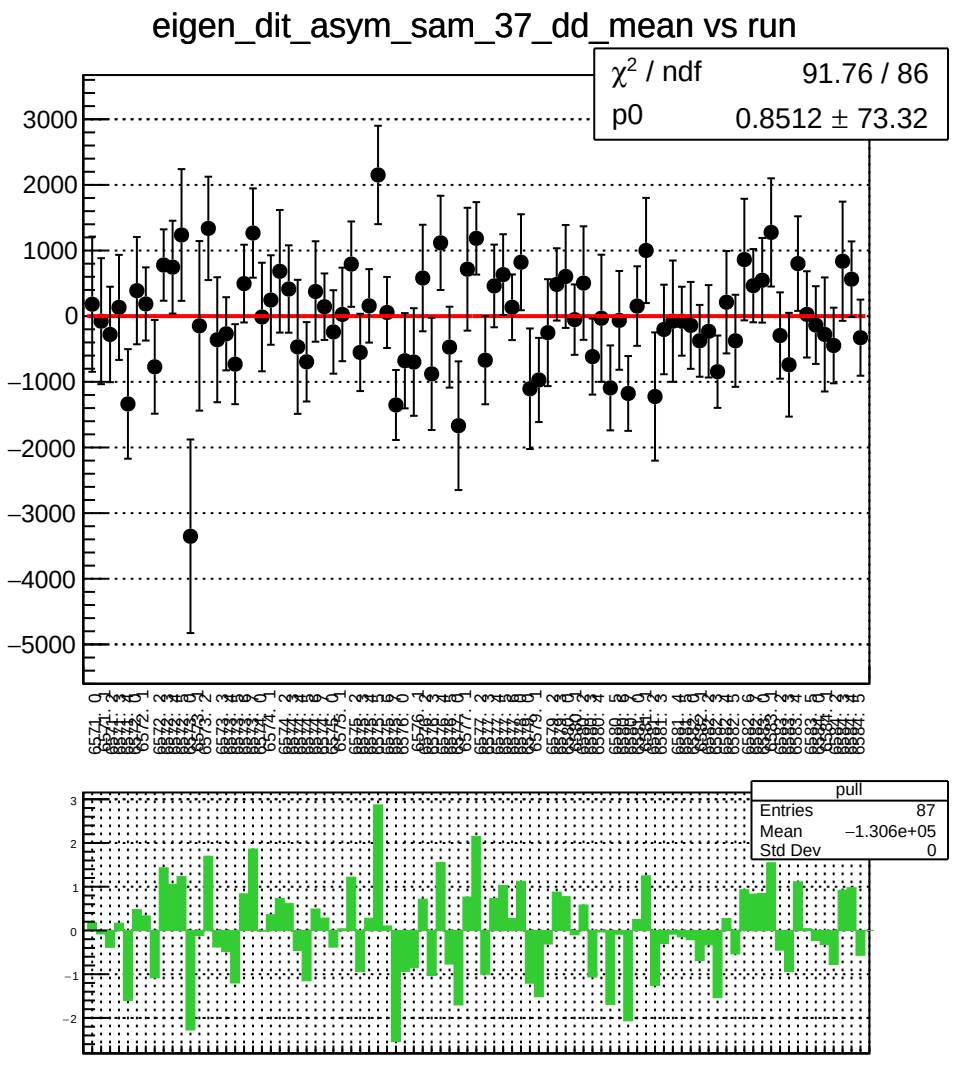

pull1D
Entries 87
Mean 7.138e−06
Std Dev 1.027

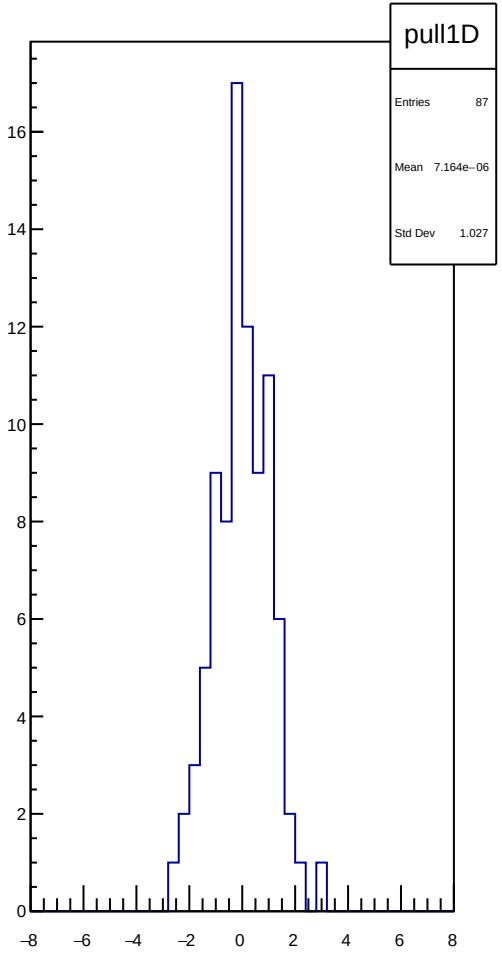

dit_asym_sam_37_dd_rms vs run
χ² / ndf 6.418e+04 / 86
p0 66.04 ± 0.05185
140
120
100
80
60

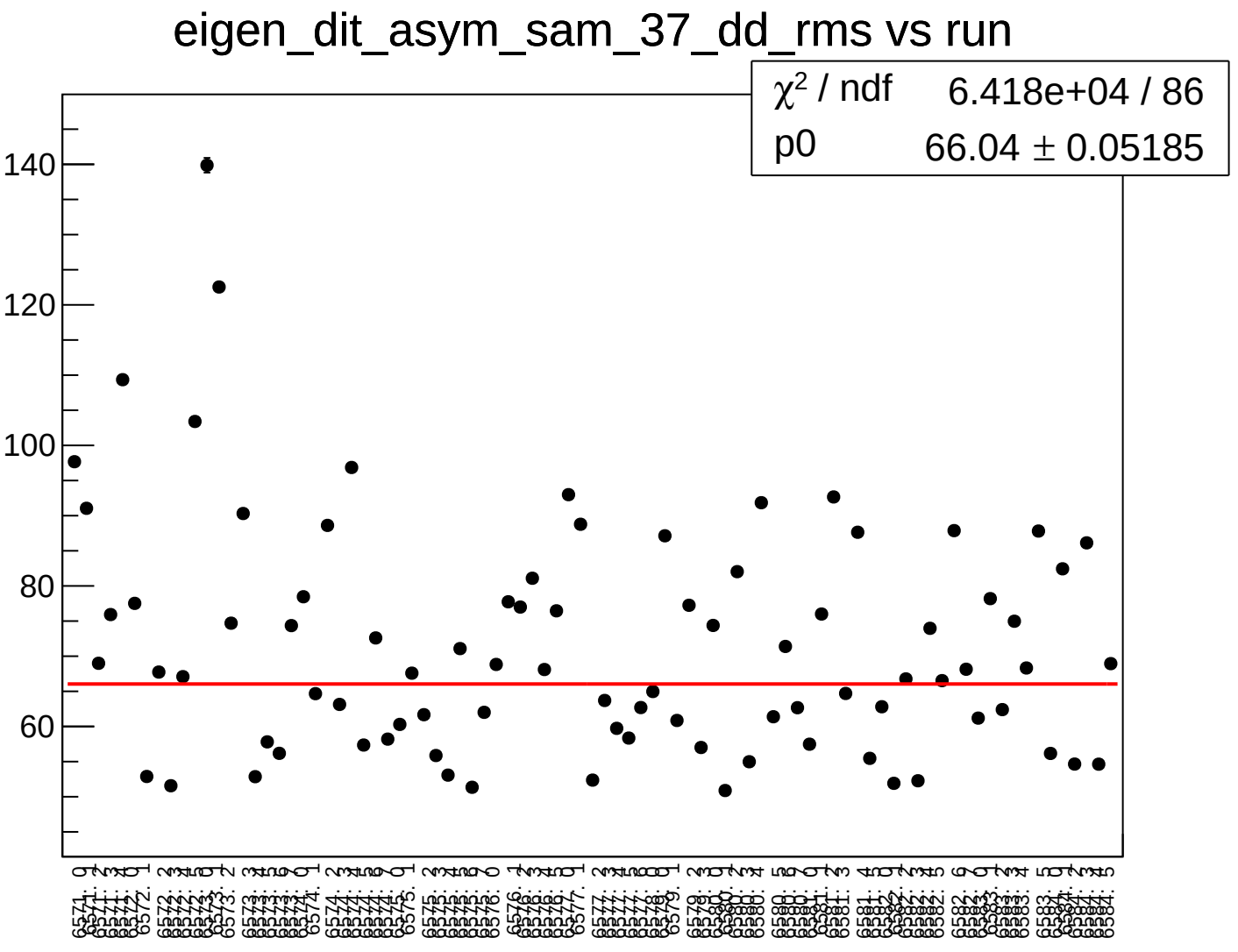

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 112 / 86
p0 −571.3 ± 341.2
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 305.4
Std Dev 0
2
1
0
−1
−2
−3

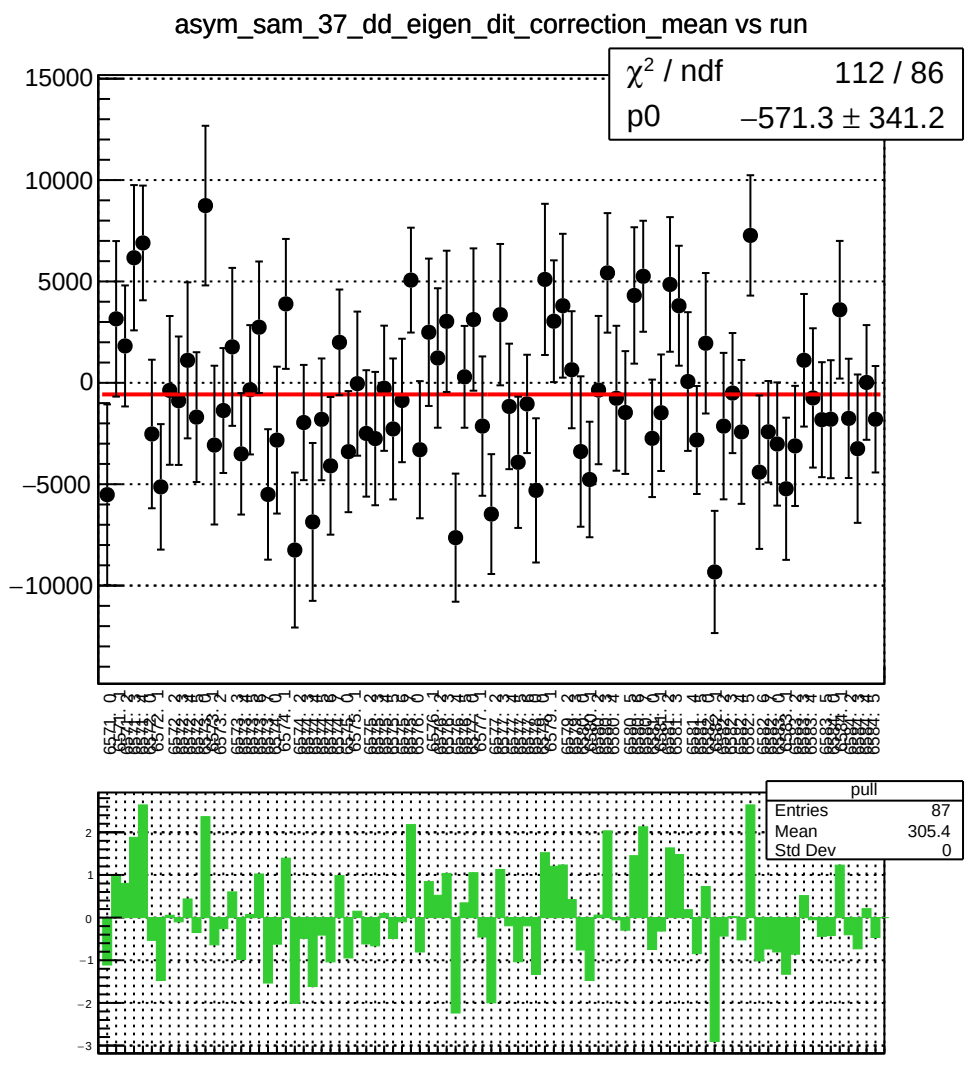

pull1D
Entries 87
Mean −0.00611
Std Dev 1.134
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

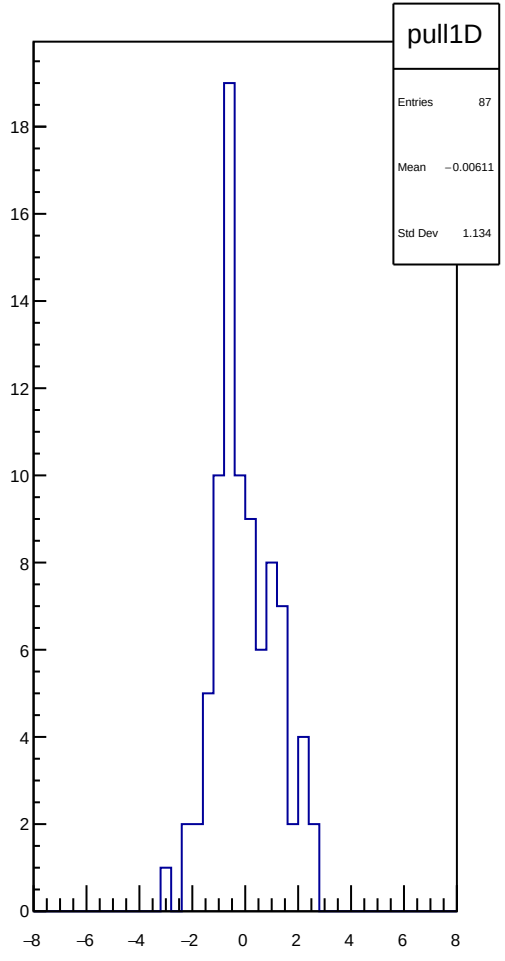

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.581e+04 / 86
p0 311.9 ± 0.2413
440
420
400
380
360
340
320
300
280
260

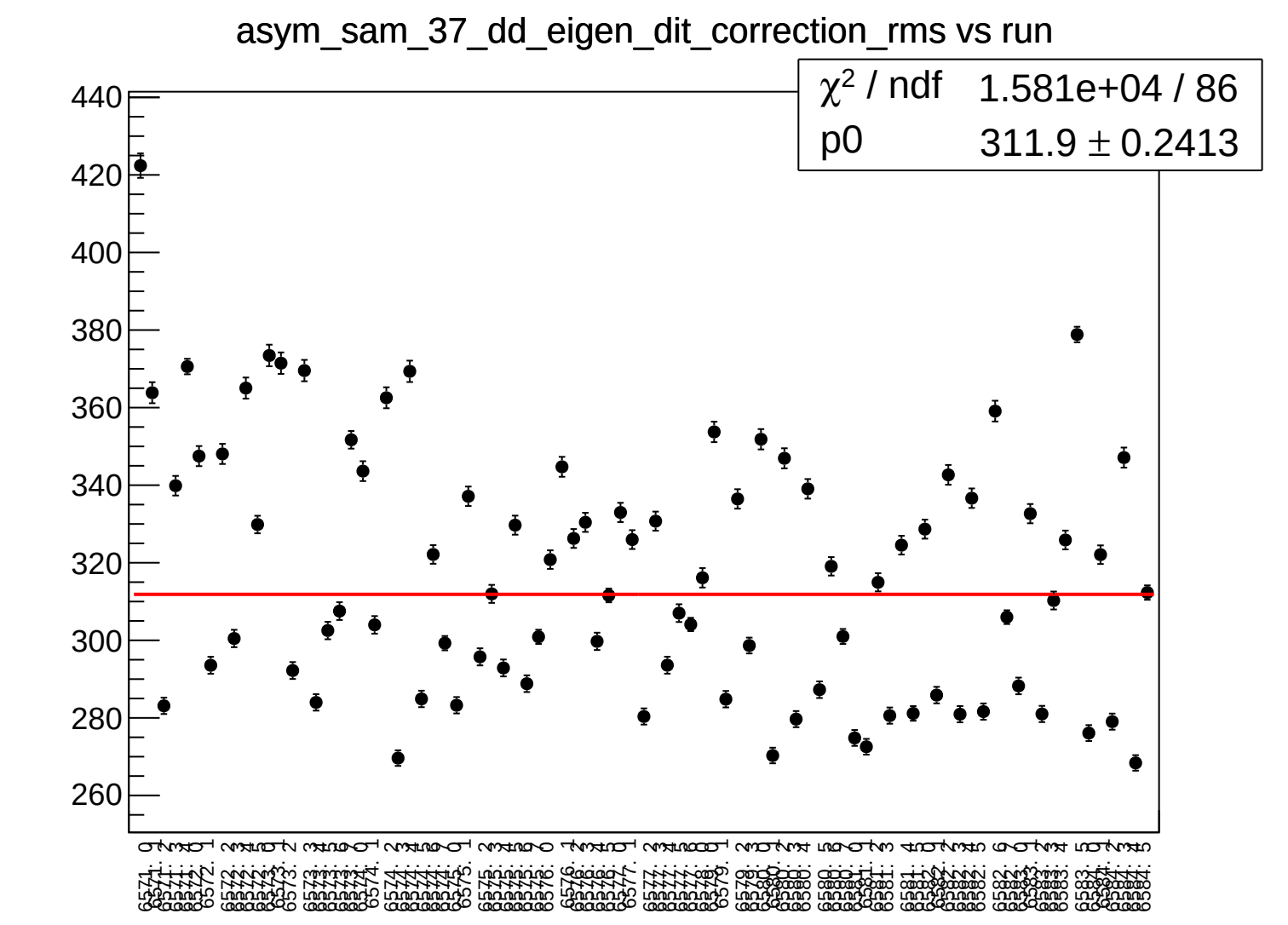

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 91.76 / 86
p0 0.8512 ± 73.32
pull
Entries 87
Mean −1.306e+05
Std Dev 0

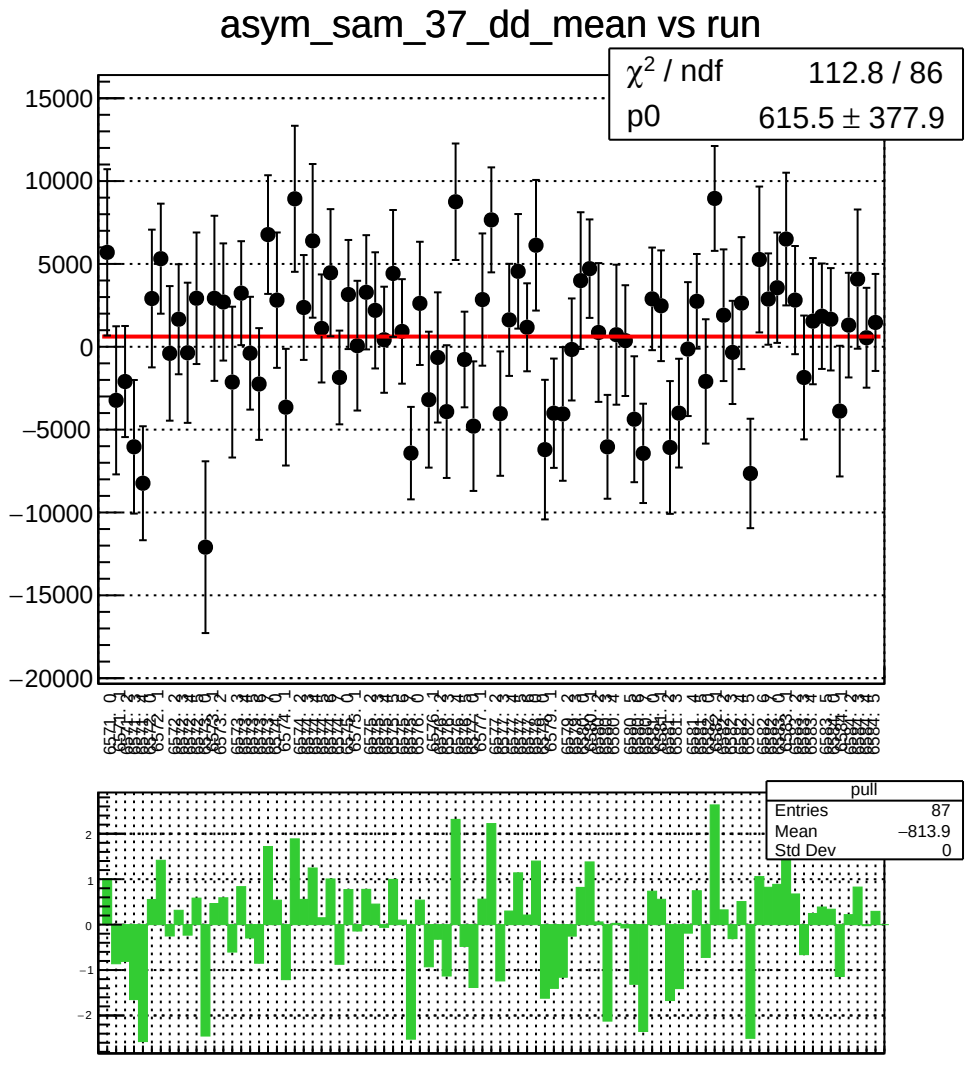

pull1D
Entries 87
Mean 7.164e−06
Std Dev 1.027

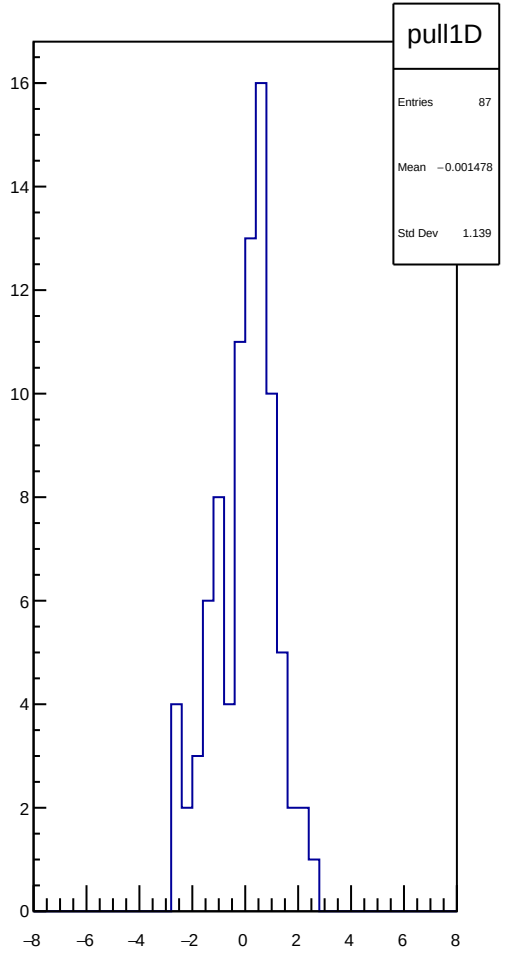

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 6.418e+04 / 86
p0 66.04 ± 0.05185
140
120
100
80
60

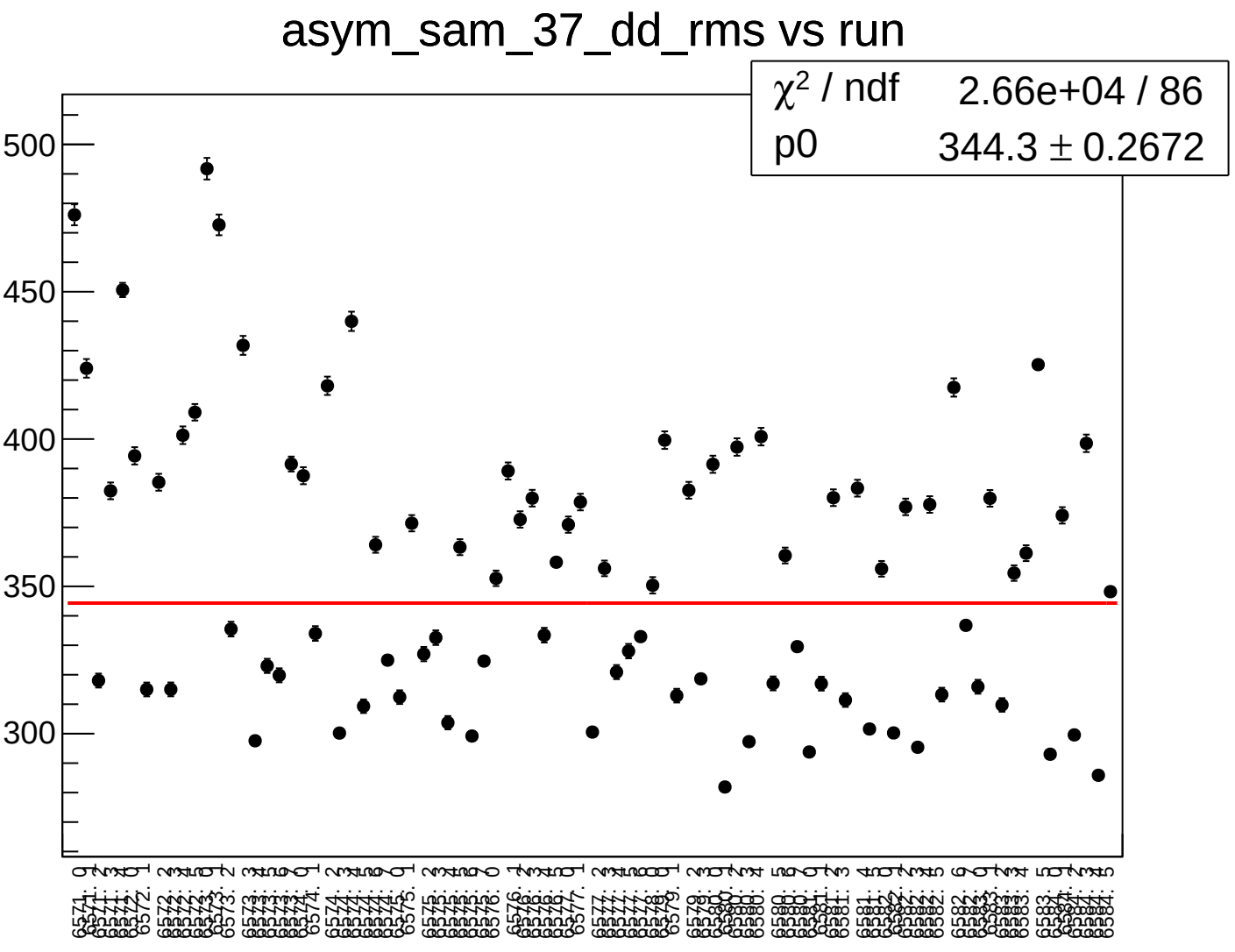

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 112 / 86
p0 −571.3 ± 341.2
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 305.4
Std Dev 0
2
1
0
−1
−2
−3

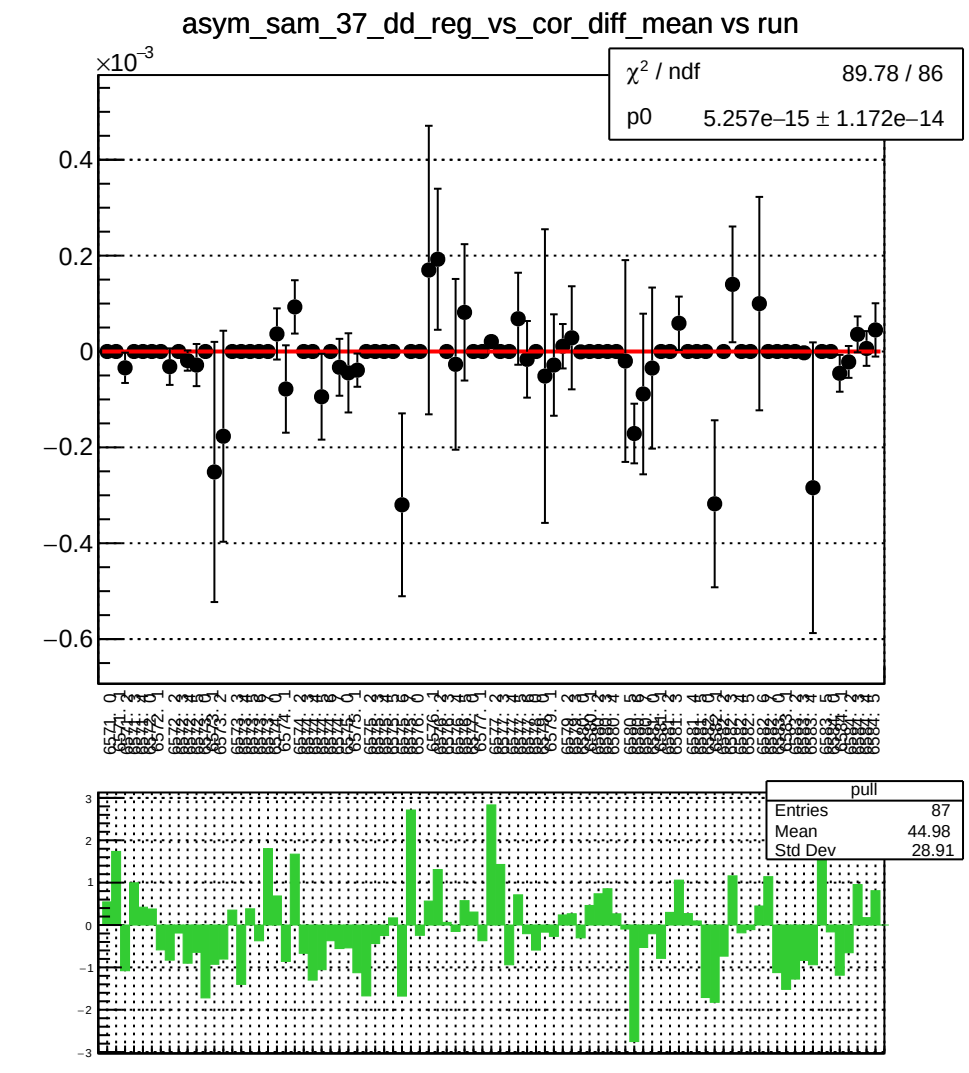

pull1D
Entries 87
Mean −0.00611
Std Dev 1.134
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

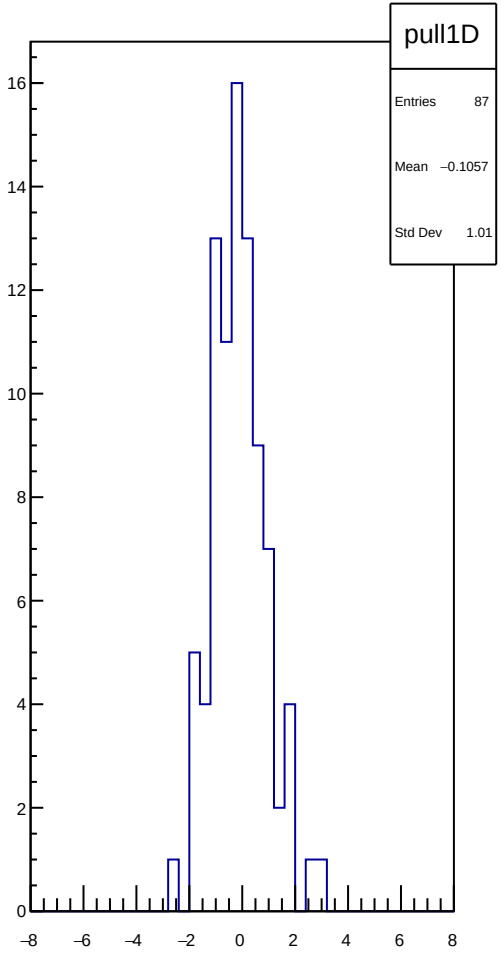

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.581e+04 / 86
p0 311.9 ± 0.2413
440
420
400
380
360
340
320
300
280
260

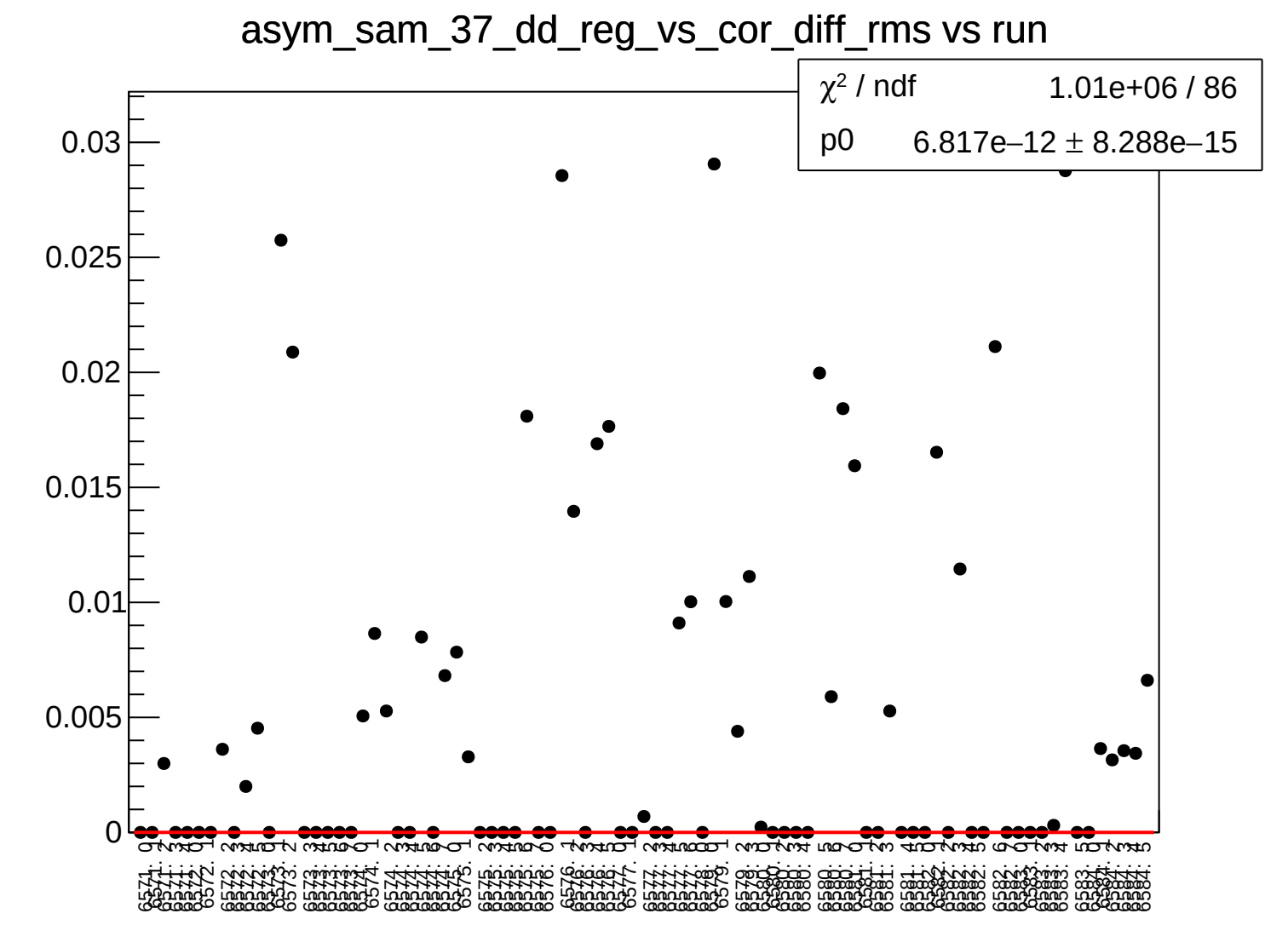

asym_sam_37_dd_mean vs run
χ² / ndf 112.8 / 86
p0 615.5 ± 377.9
pull
Entries 87
Mean −813.9
Std Dev 0

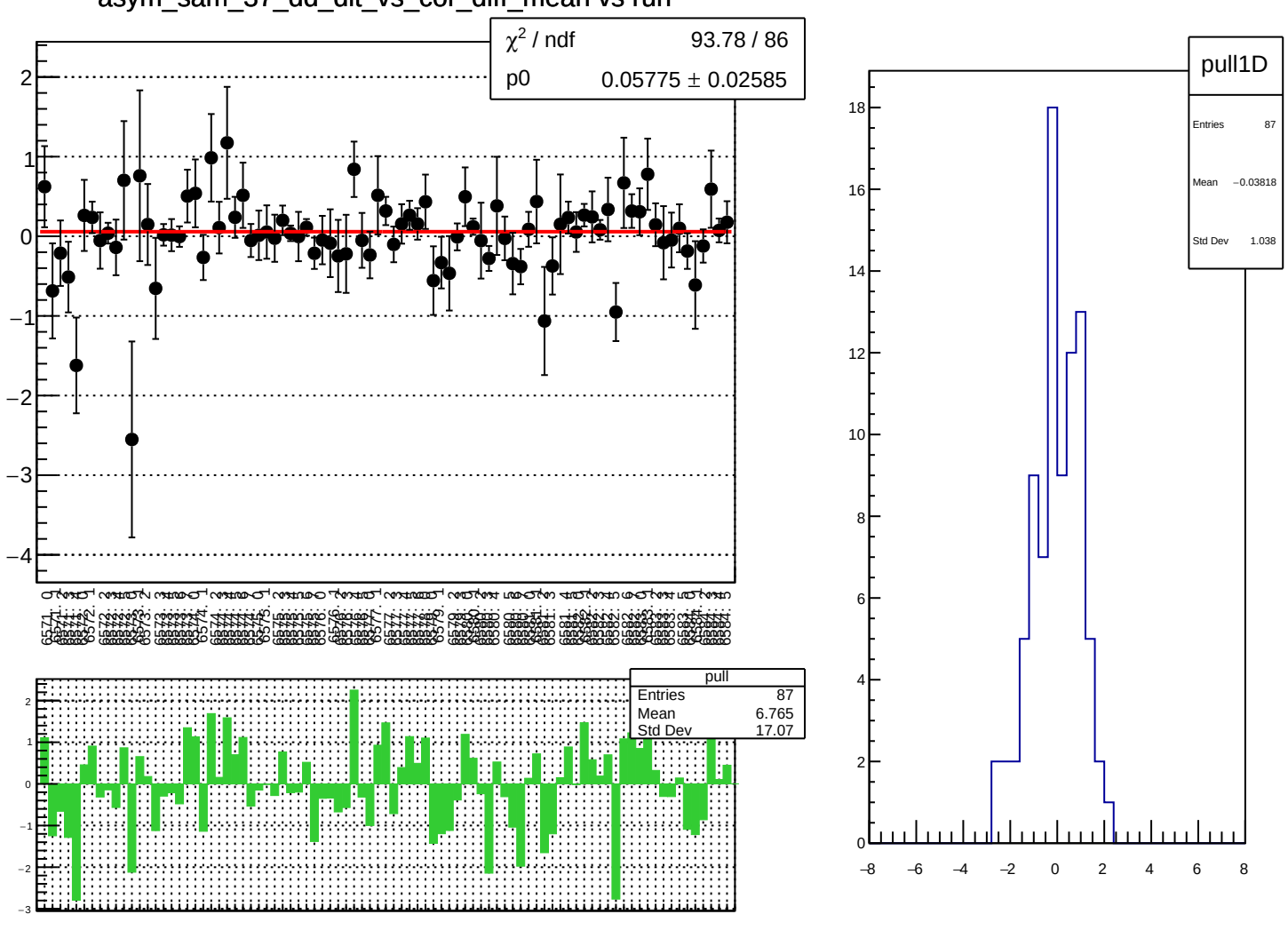

pull1D
Entries 87
Mean −0.001478
Std Dev 1.139

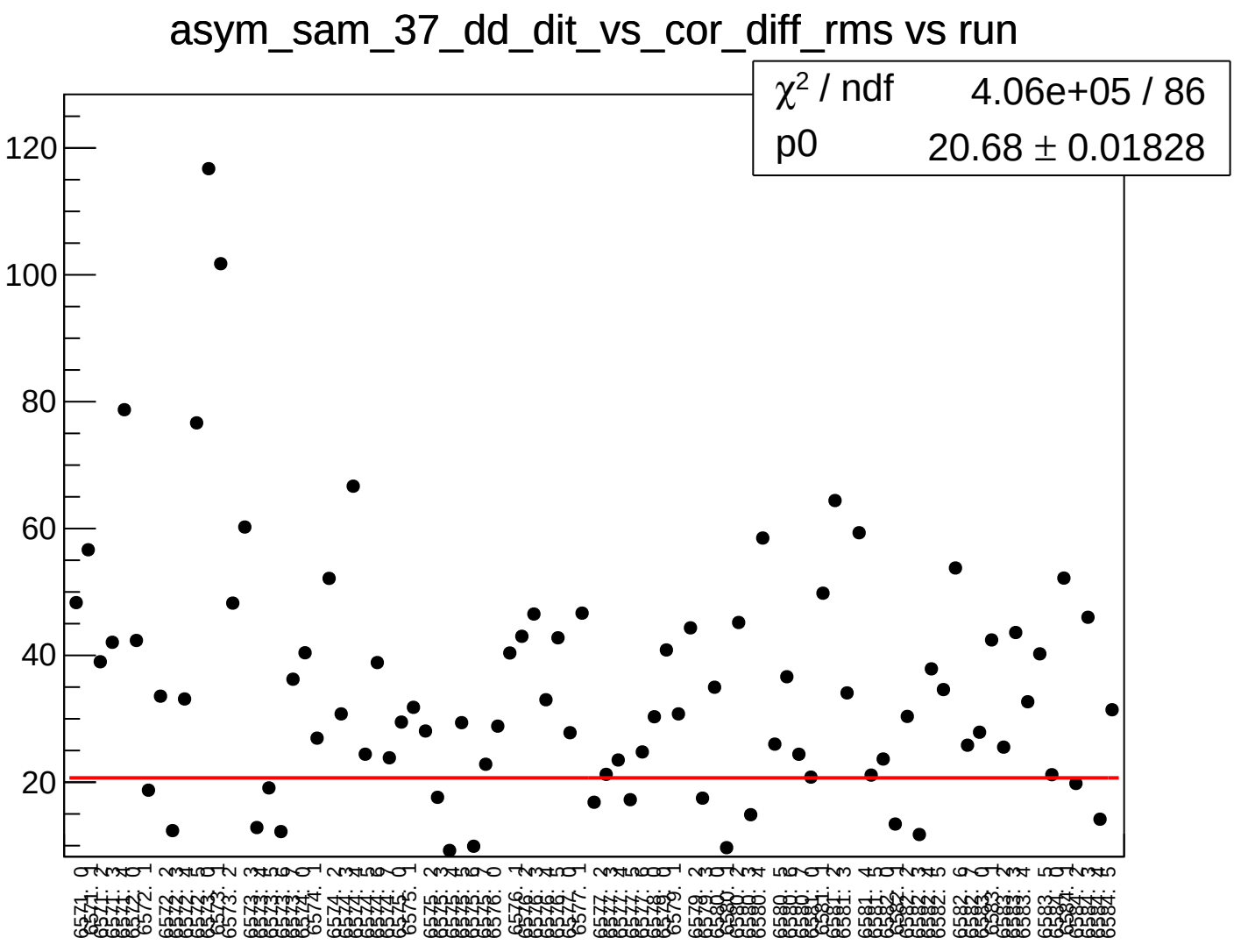

asym_sam_37_dd_rms vs run
χ² / ndf 2.66e+04 / 86
p0 344.3 ± 0.2672
500
450
400
350
300

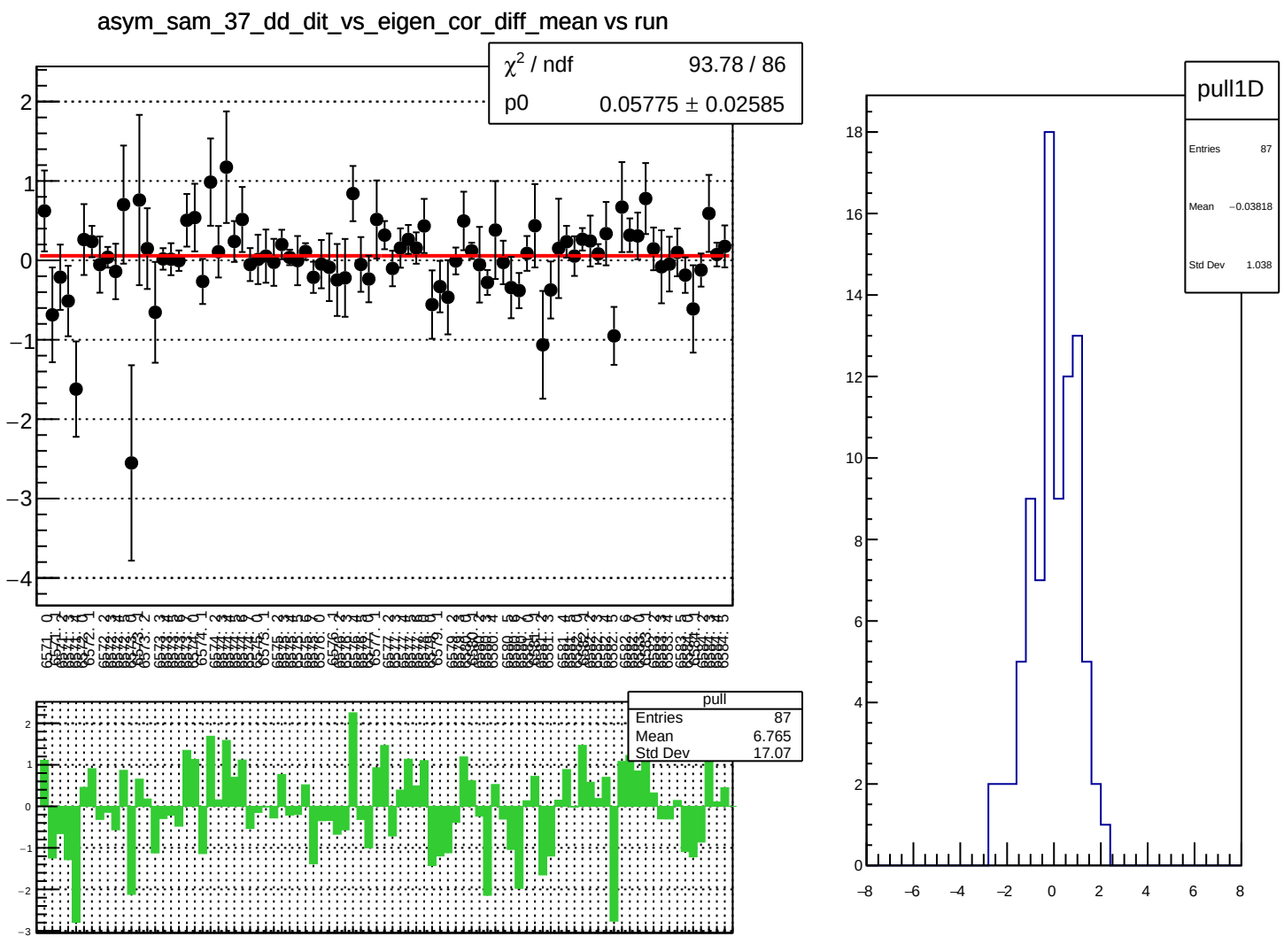

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 89.78 / 86
p0 5.257e−15 ± 1.172e−14
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 87
Mean 44.98
Std Dev 28.91
3
2
1
0
−1
−2
−3

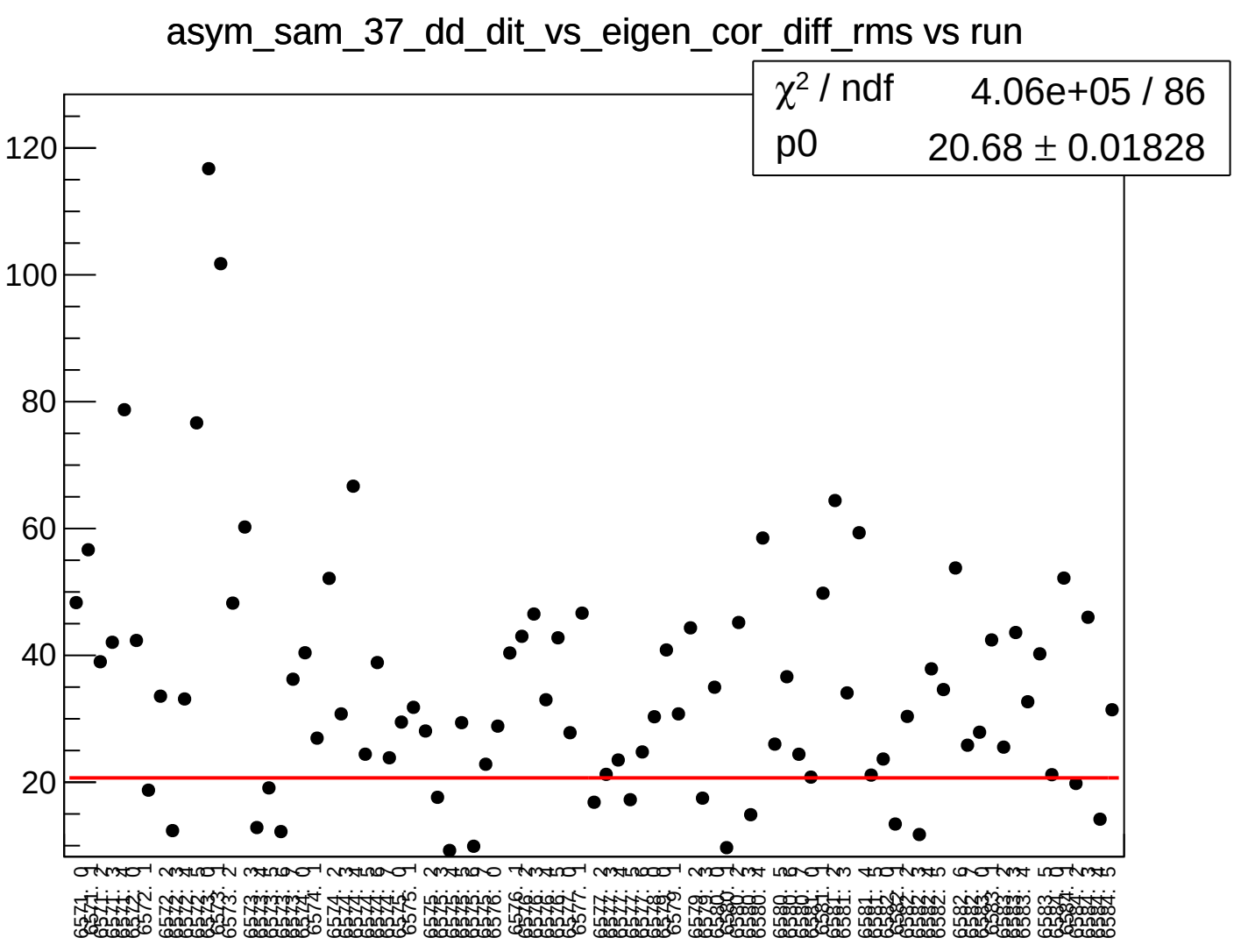

pull1D
Entries 87
Mean −0.1057
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

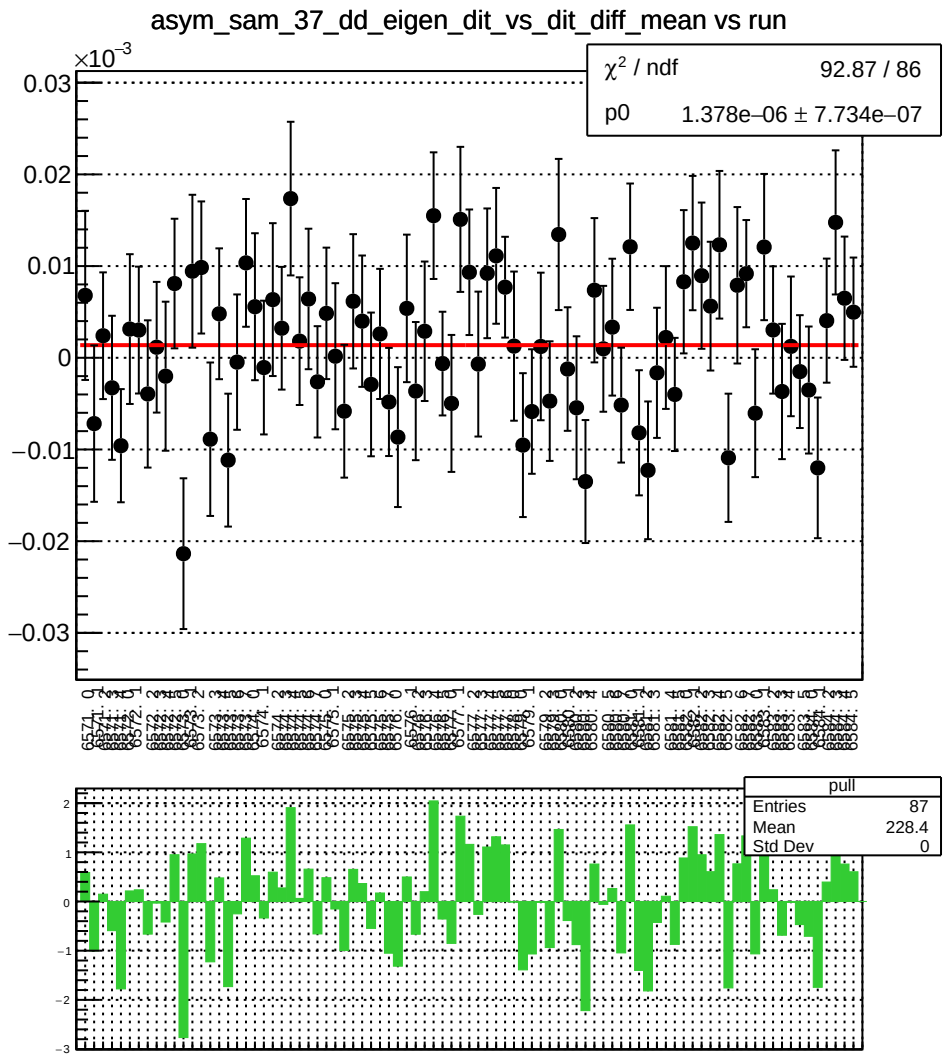

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.01e+06 / 86
p0 6.817e−12 ± 8.288e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

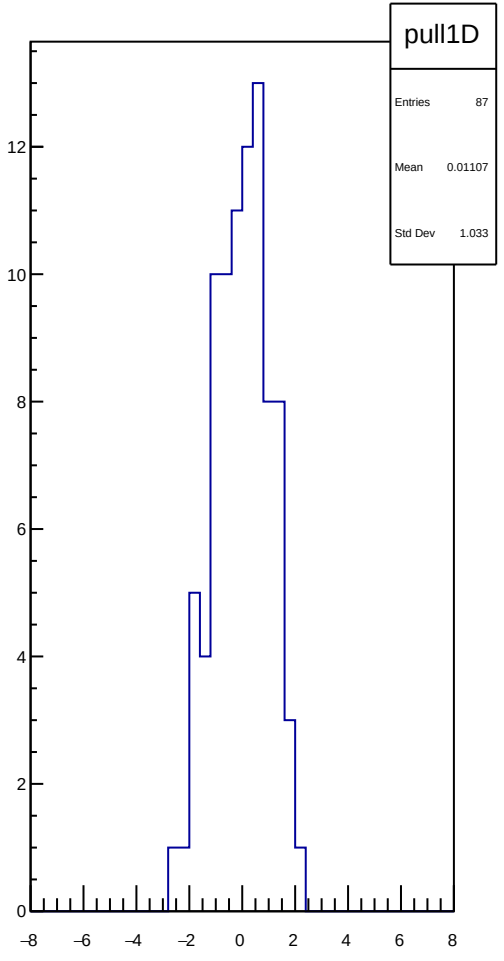

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.78 / 86
p0 0.05775 ± 0.02585
pull
Entries 87
Mean 6.765
Std Dev 17.07
pull1D
Entries 87
Mean −0.03818
Std Dev 1.038

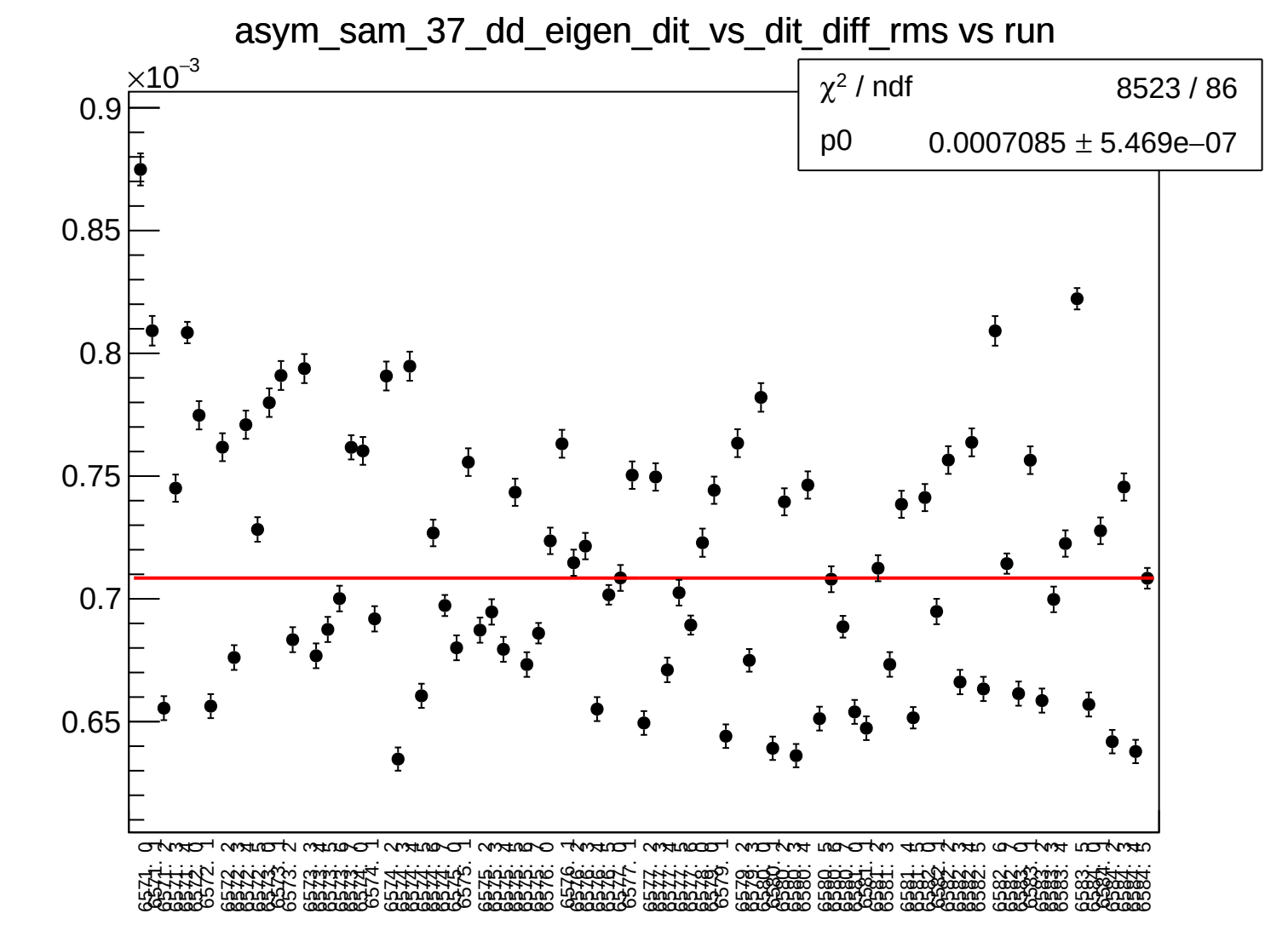

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.06e+05 / 86
p0 20.68 ± 0.01828
120
100
80
60
40
20

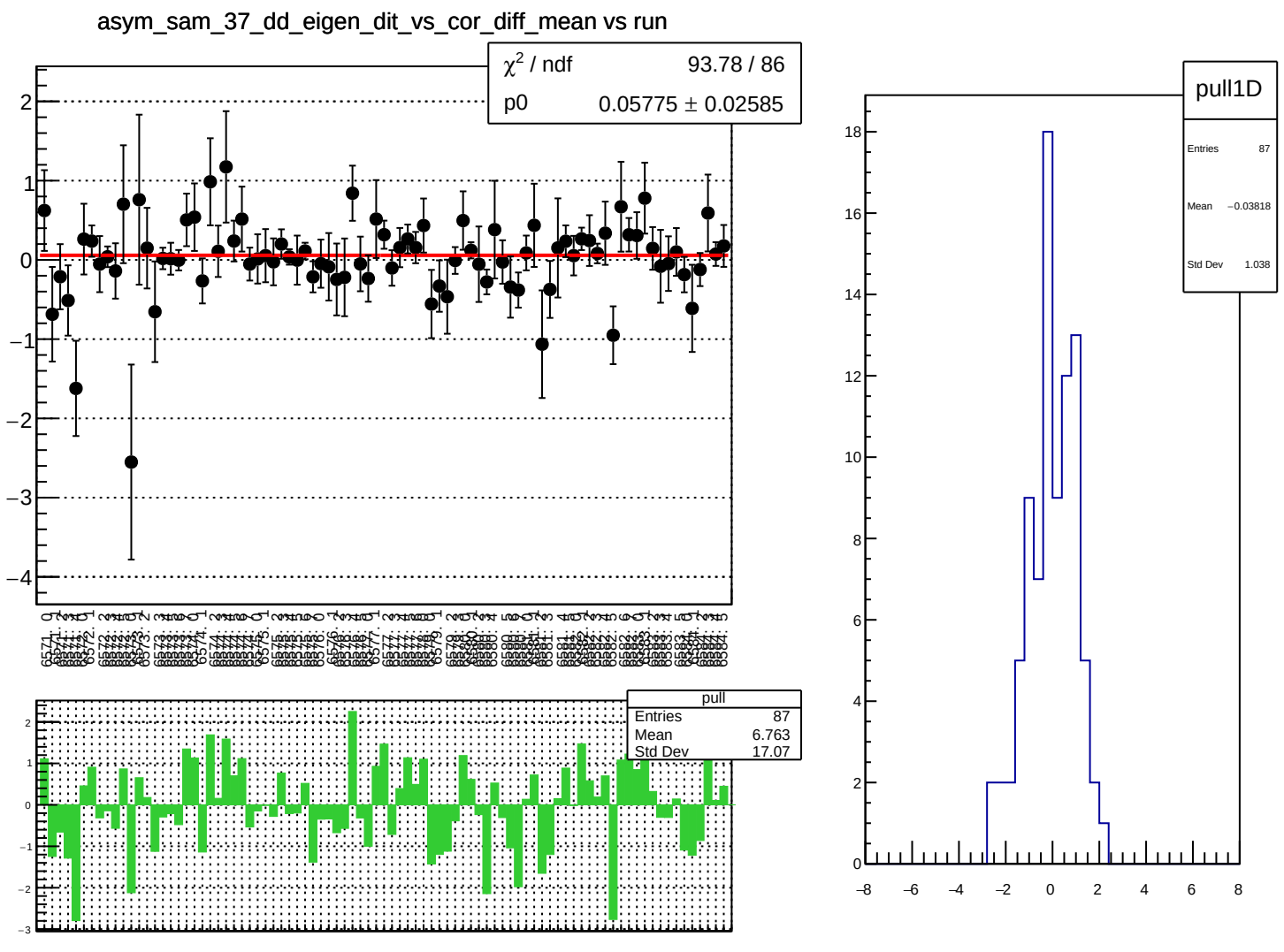

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.78 / 86
p0 0.05775 ± 0.02585
pull
Entries 87
Mean 6.765
Std Dev 17.07
pull1D
Entries 87
Mean −0.03818
Std Dev 1.038

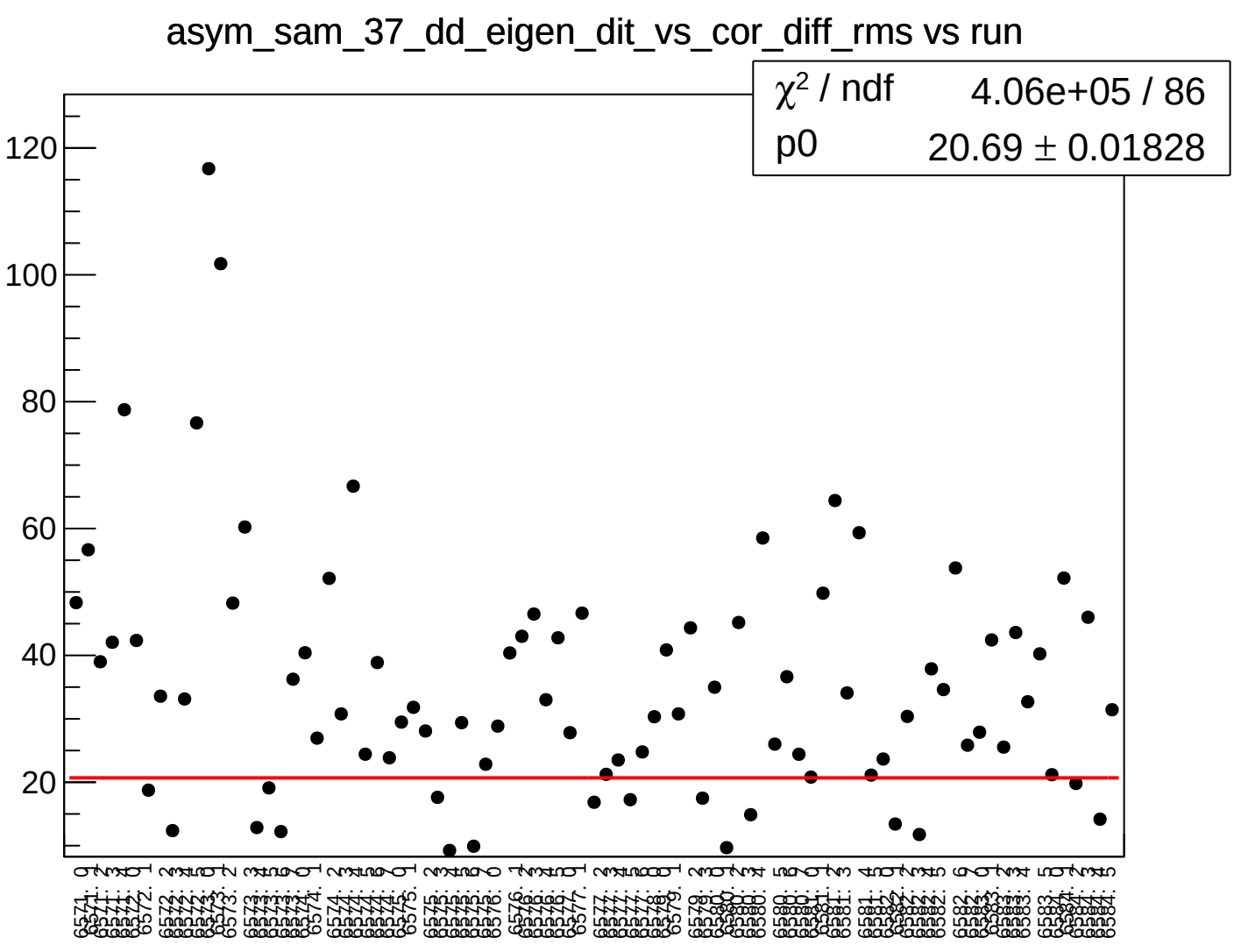

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.06e+05 / 86
p0 20.68 ± 0.01828
120
100
80
60
40
20

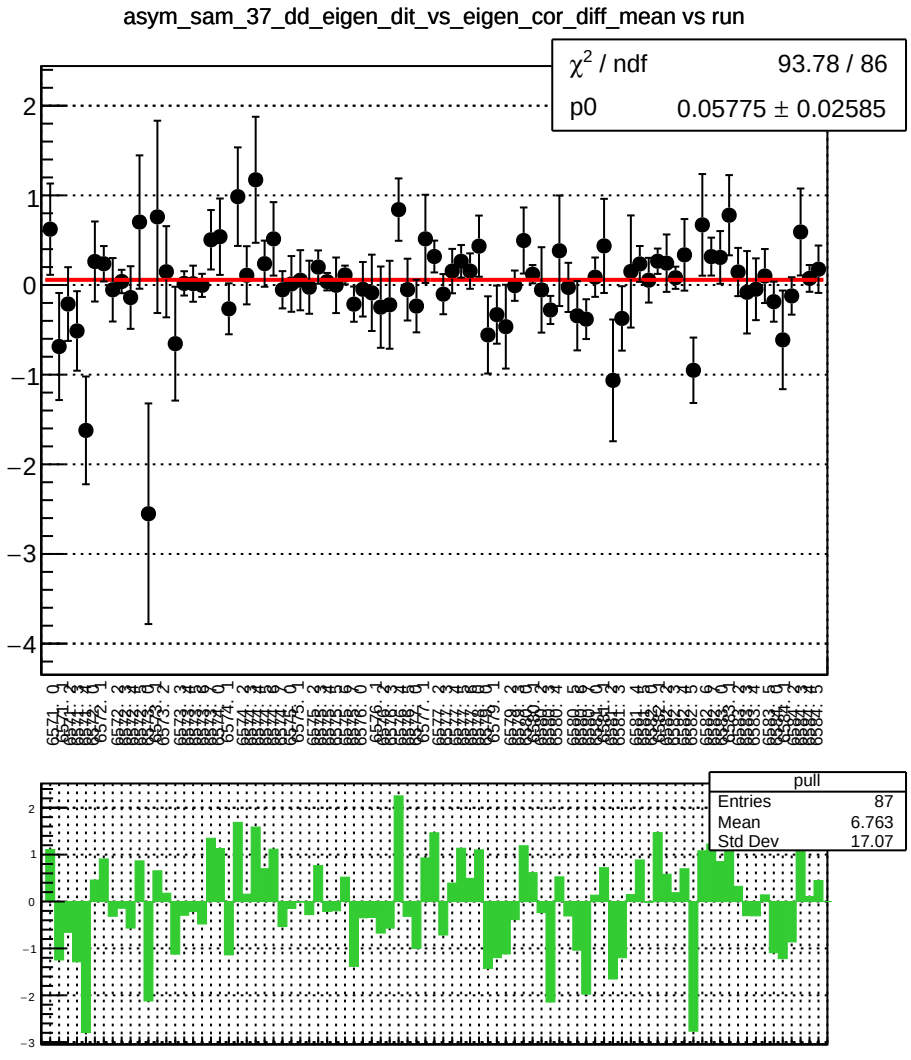

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.87 / 86
p0 1.378e−06 ± 7.734e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 228.4
Std Dev 0
2
1
0
−1
−2
−3

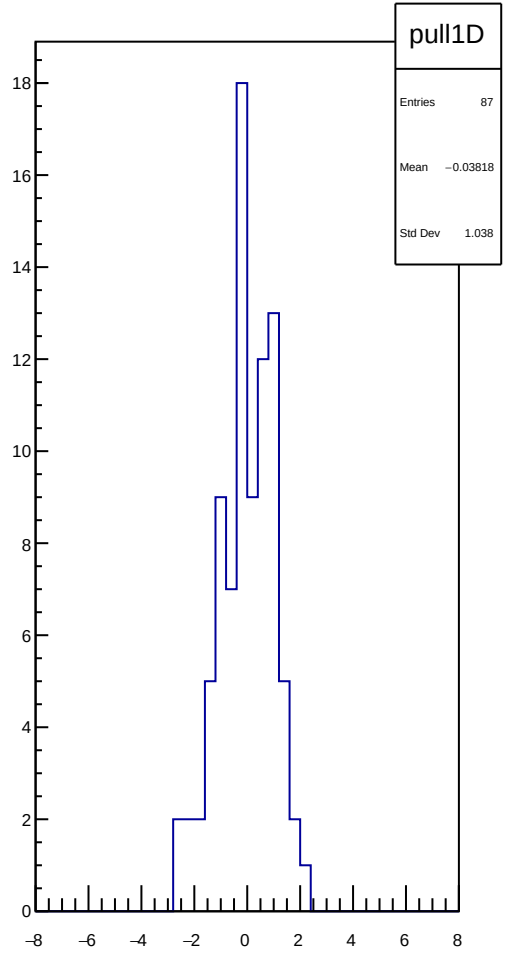

pull1D
Entries 87
Mean 0.01107
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

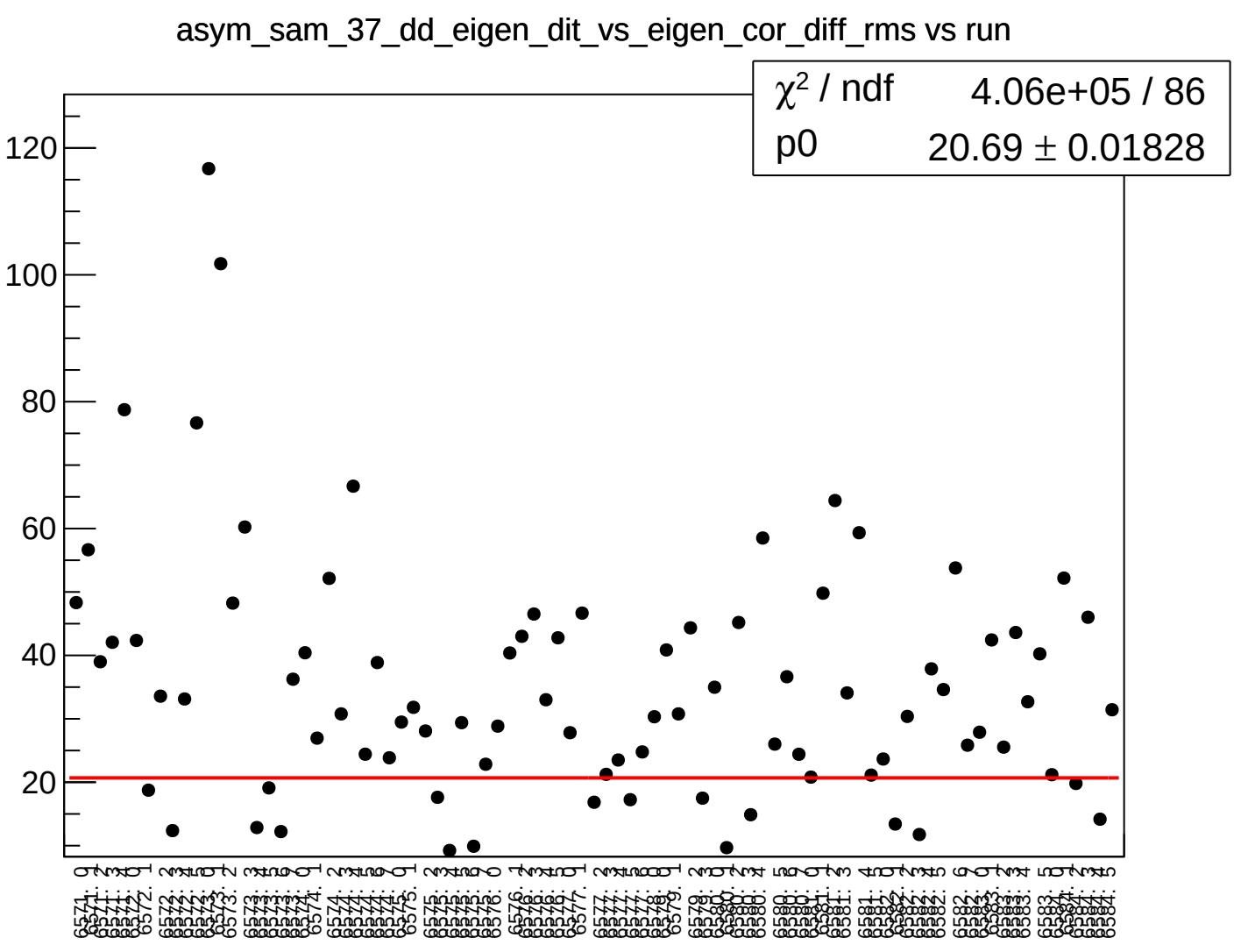

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 8523 / 86
p0 0.0007085 ± 5.469e−07
0.9
0.85
0.8
0.75
0.7
0.65

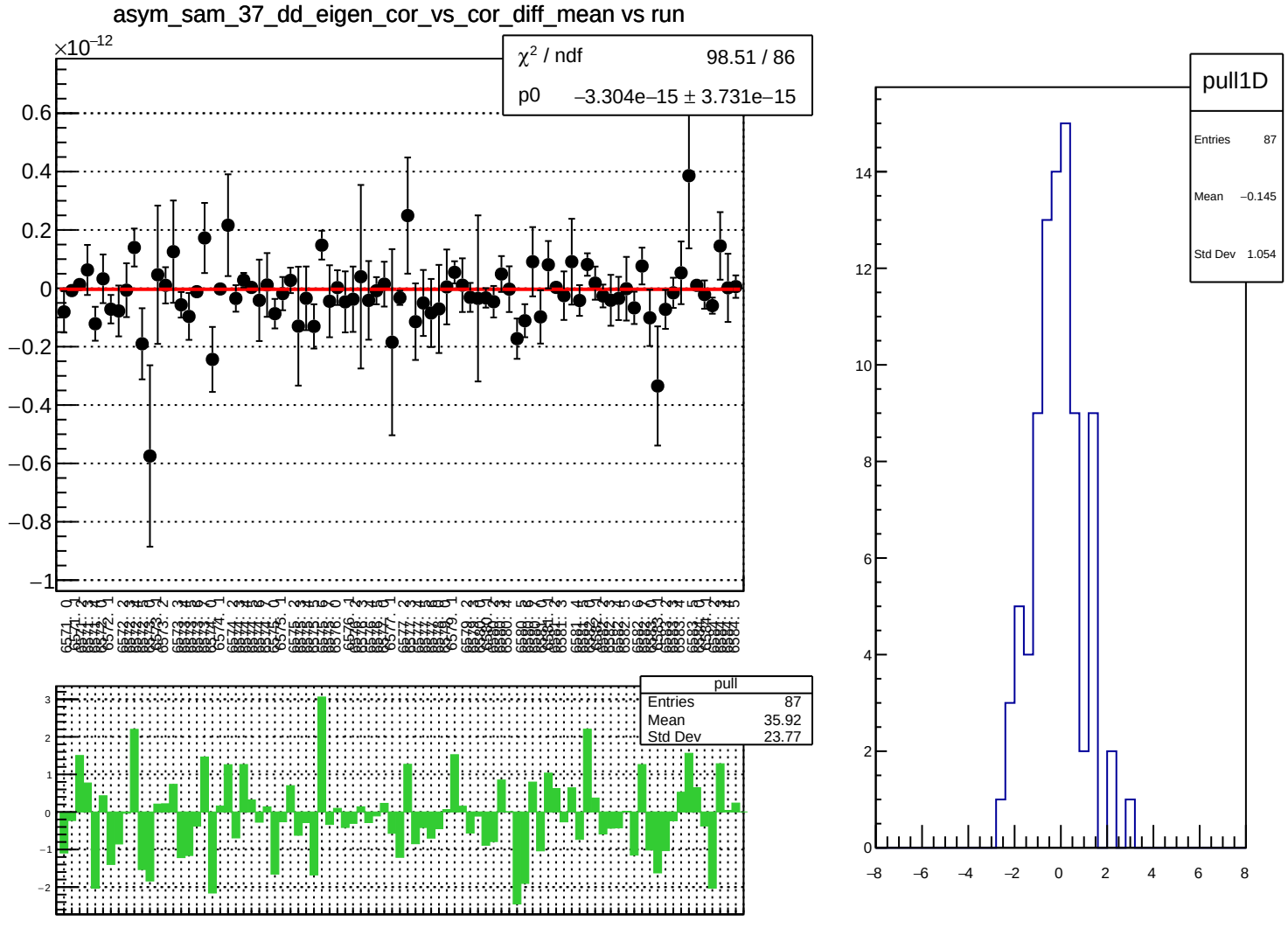

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.78 / 86
p0 0.05775 ± 0.02585
pull
Entries 87
Mean 6.763
Std Dev 17.07
pull1D
Entries 87
Mean −0.03818
Std Dev 1.038

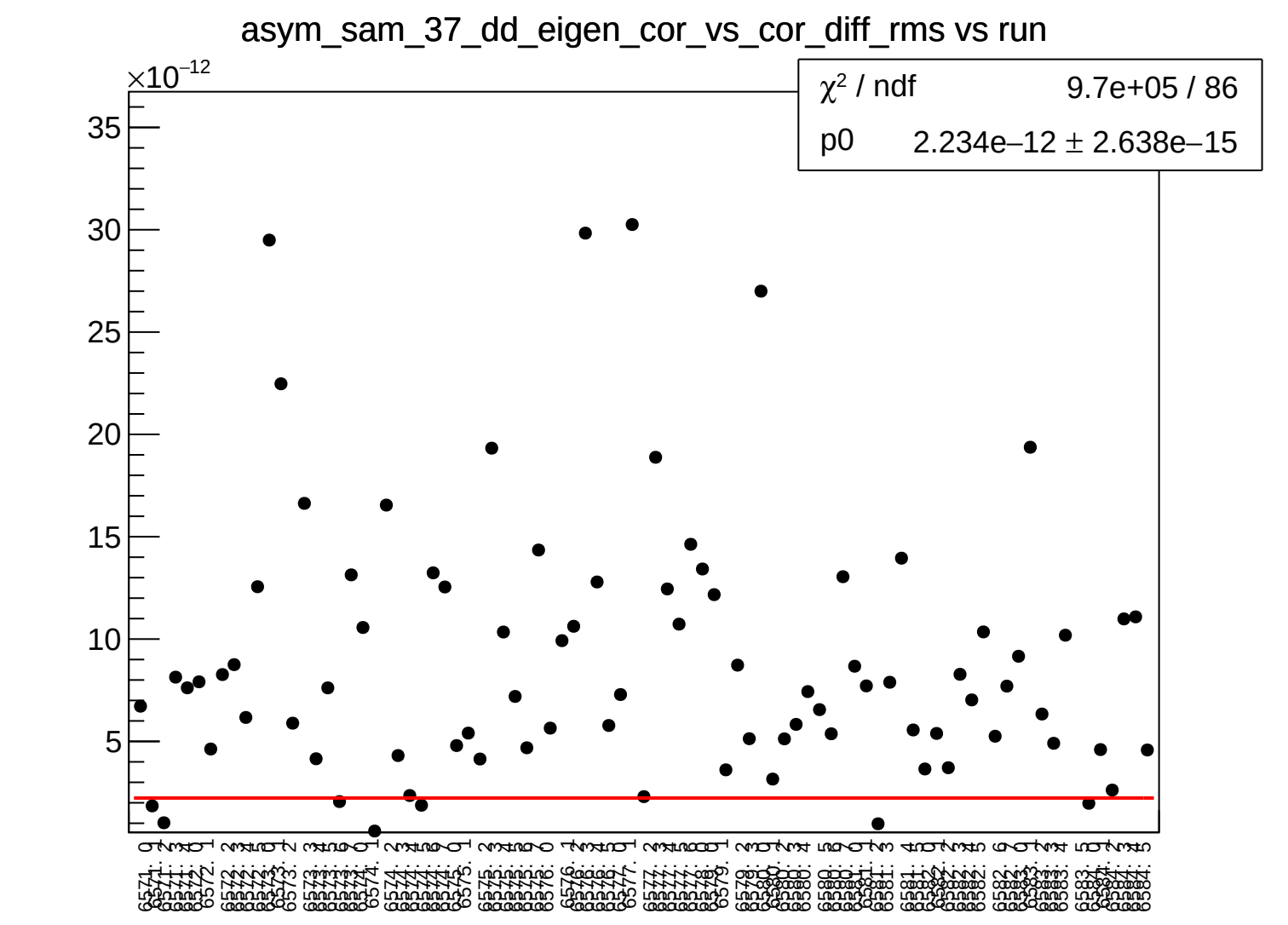

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.06e+05 / 86
p0 20.69 ± 0.01828
120
100
80
60
40
20

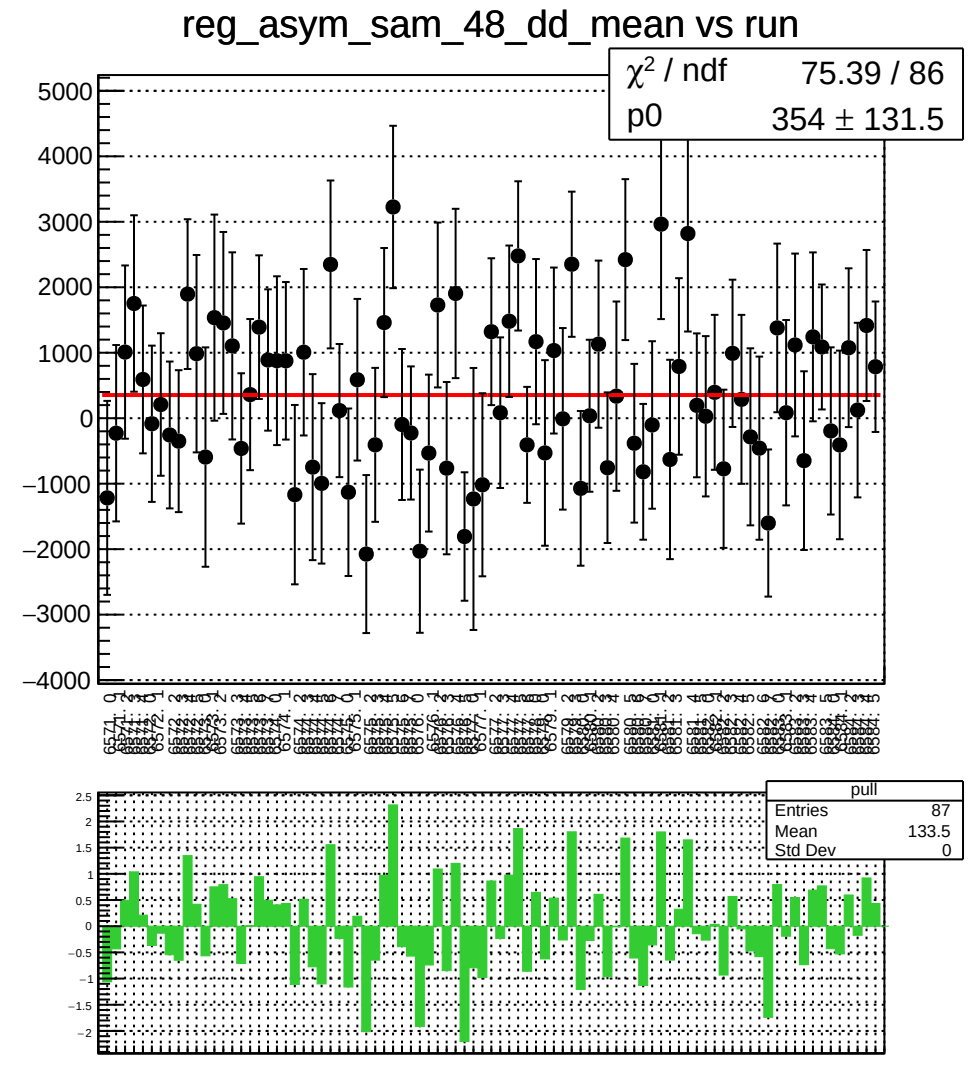

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.78 / 86
p0 0.05775 ± 0.02585
pull
Entries 87
Mean 6.763
Std Dev 17.07

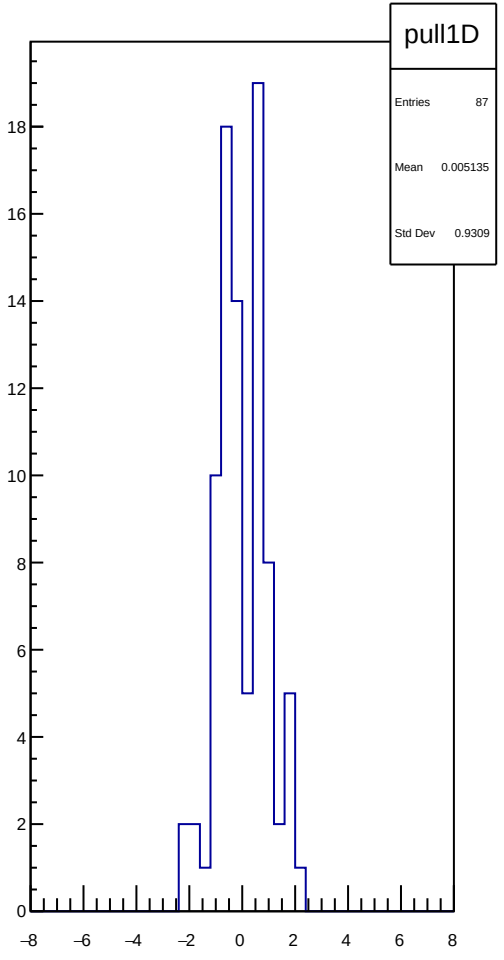

pull1D
Entries 87
Mean −0.03818
Std Dev 1.038

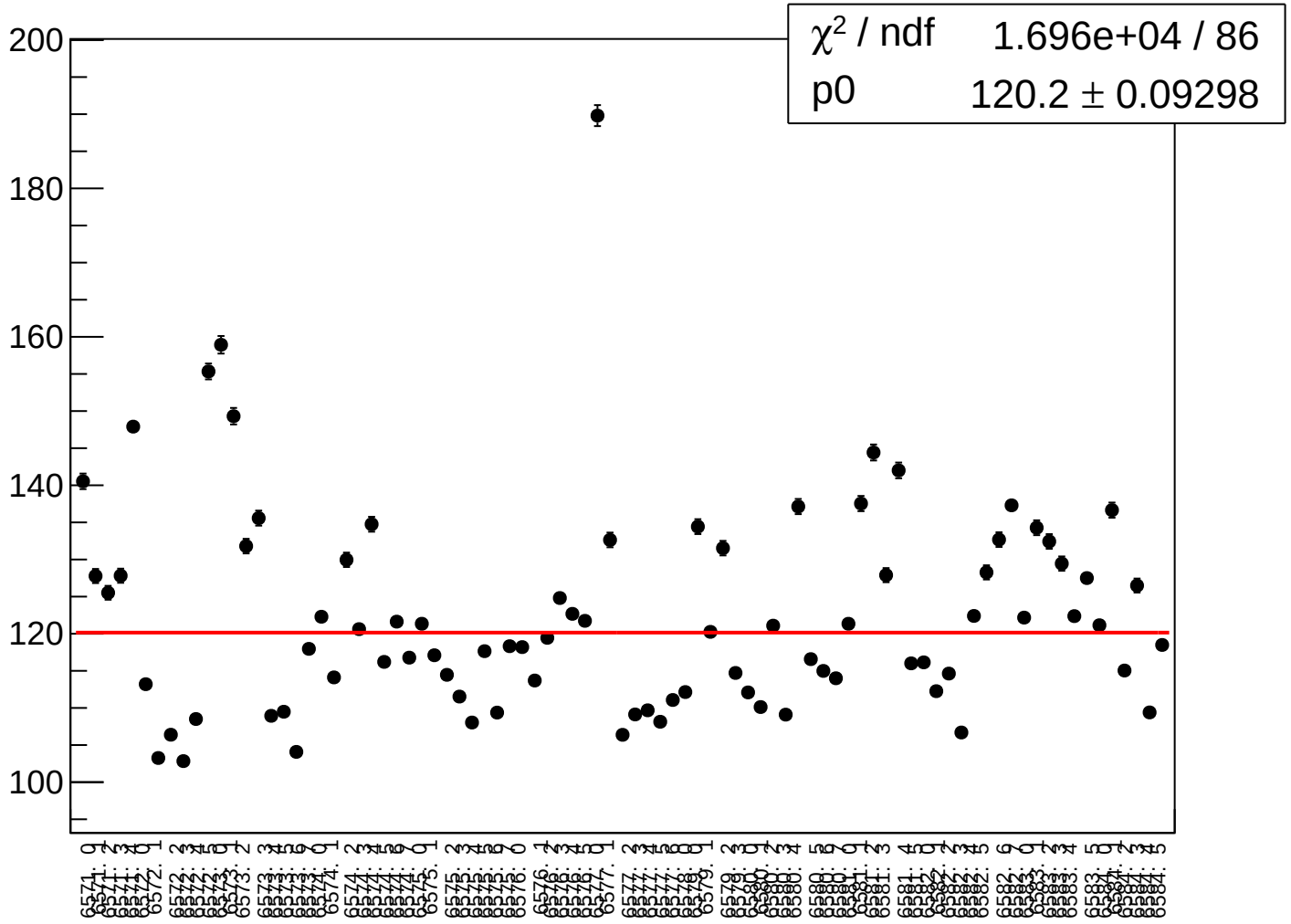

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.06e+05 / 86
p0 20.69 ± 0.01828
120
100
80
60
40
20

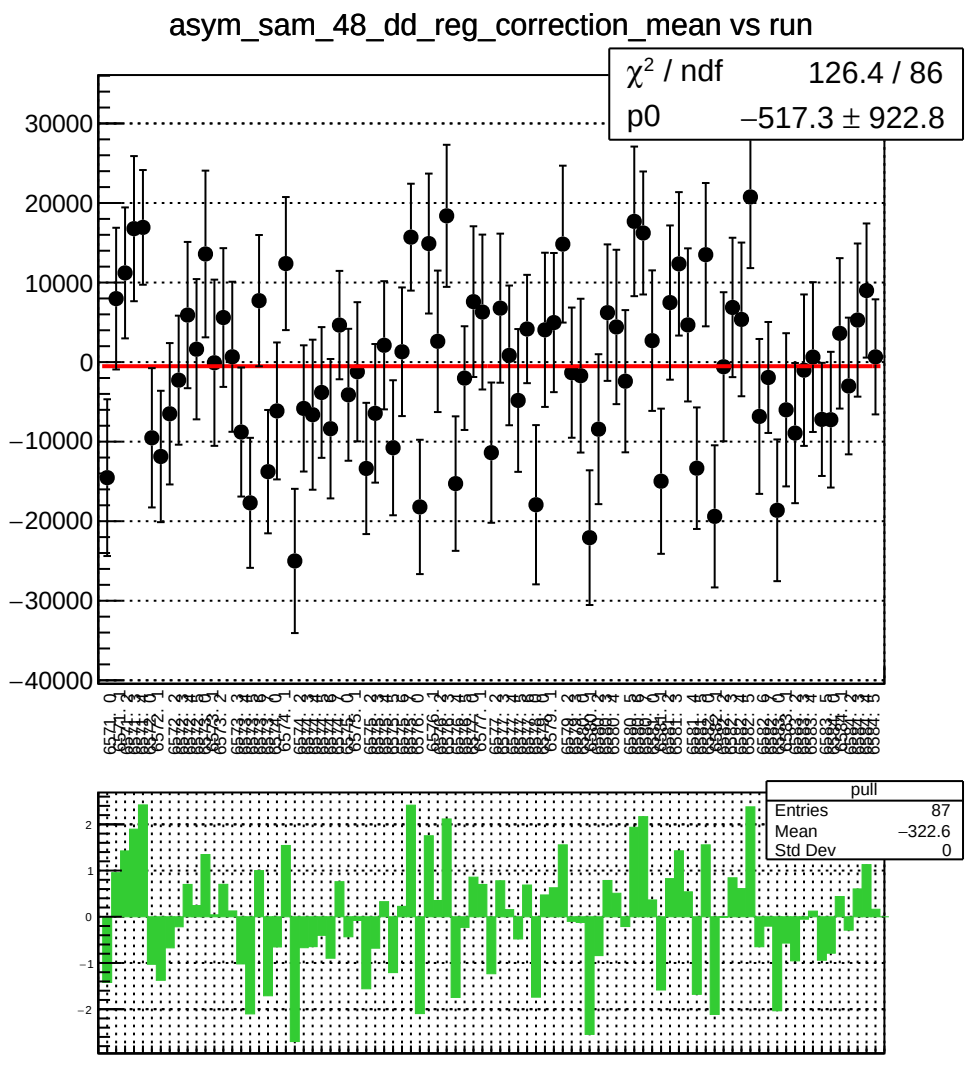

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.51 / 86
p0 −3.304e−15 ± 3.731e−15
pull
Entries 87
Mean 35.92
Std Dev 23.77
pull1D
Entries 87
Mean −0.145
Std Dev 1.054

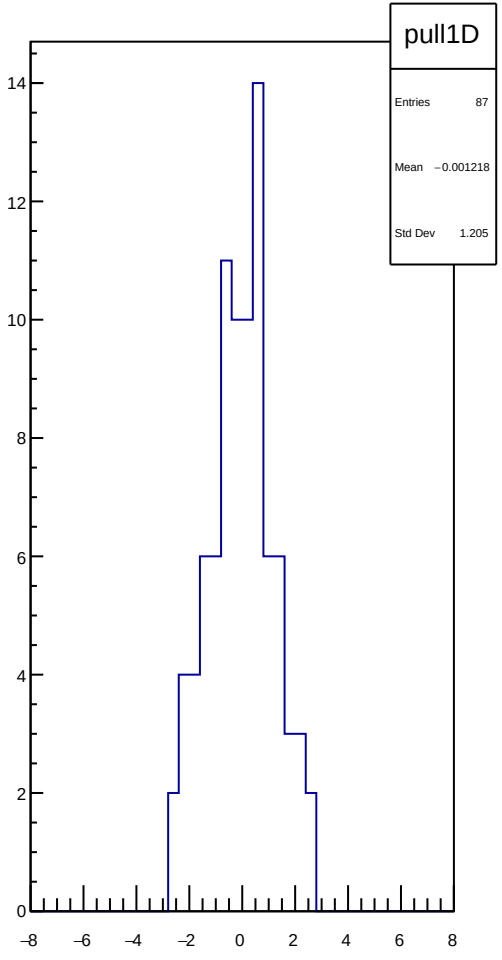

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.7e+05 / 86
p0 2.234e−12 ± 2.638e−15
35
30
25
20
15
10
5

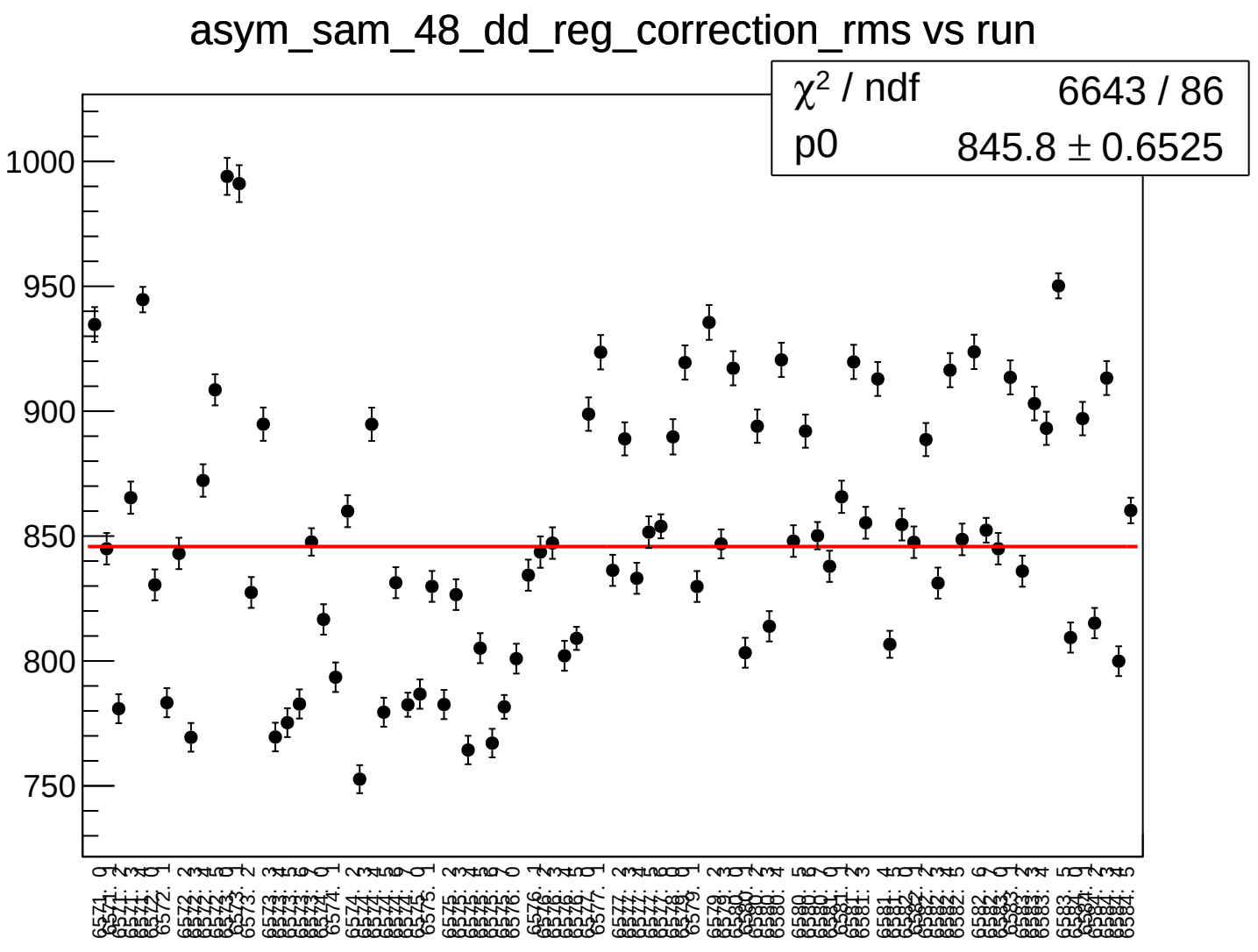

reg_asym_sam_48_dd_mean vs run
χ² / ndf 75.39 / 86
p0 354 ± 131.5
pull
Entries 87
Mean 133.5
Std Dev 0

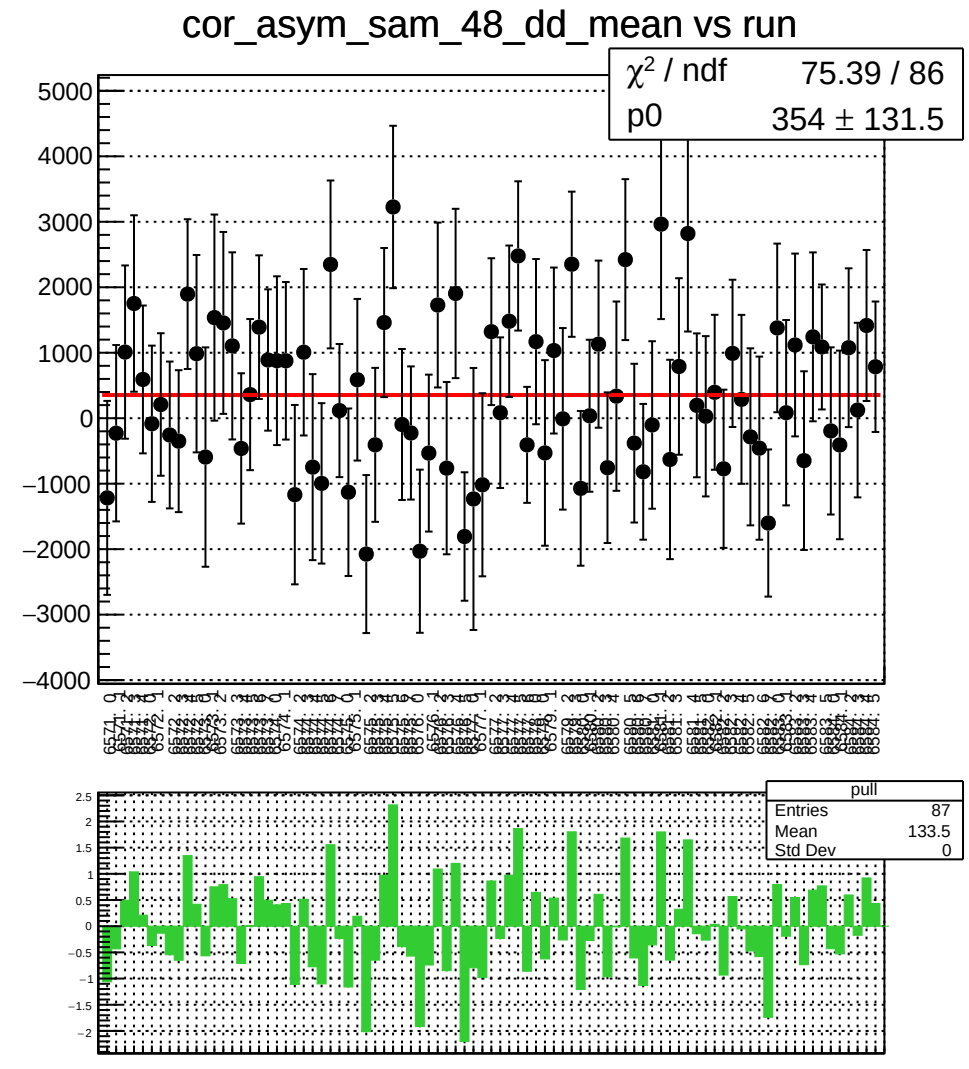

pull1D
Entries 87
Mean 0.005135
Std Dev 0.9309

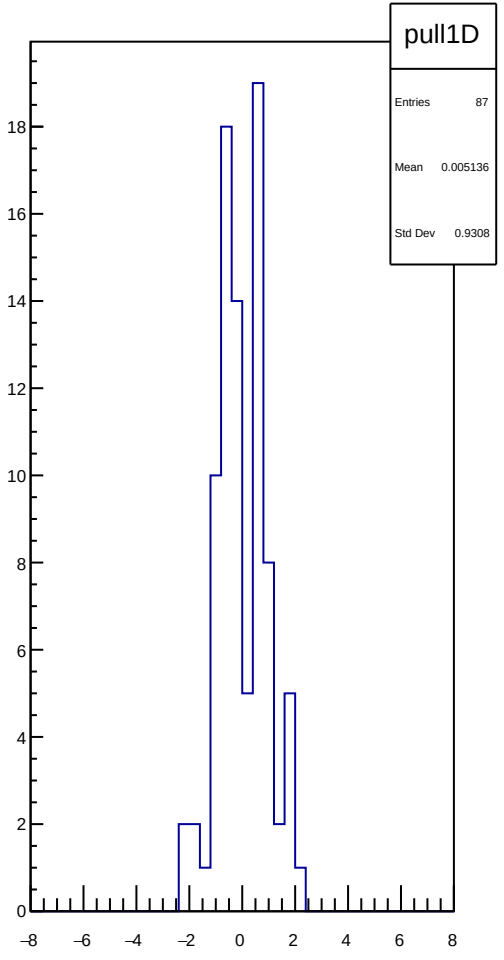

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.696e+04 / 86
p0 120.2 ± 0.09298
200
180
160
140
120
100

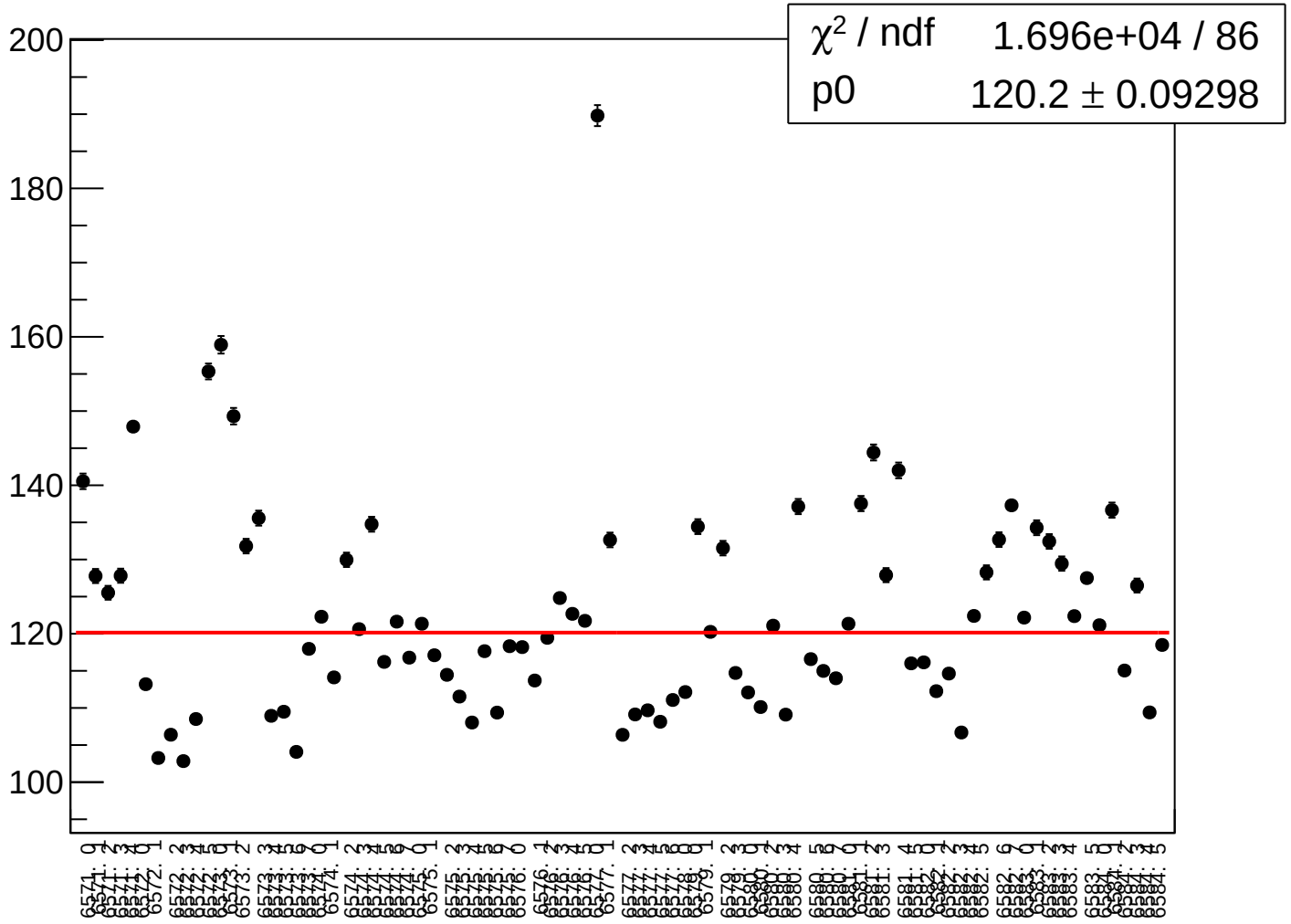

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 126.4 / 86
p0 −517.3 ± 922.8
pull
Entries 87
Mean −322.6
Std Dev 0

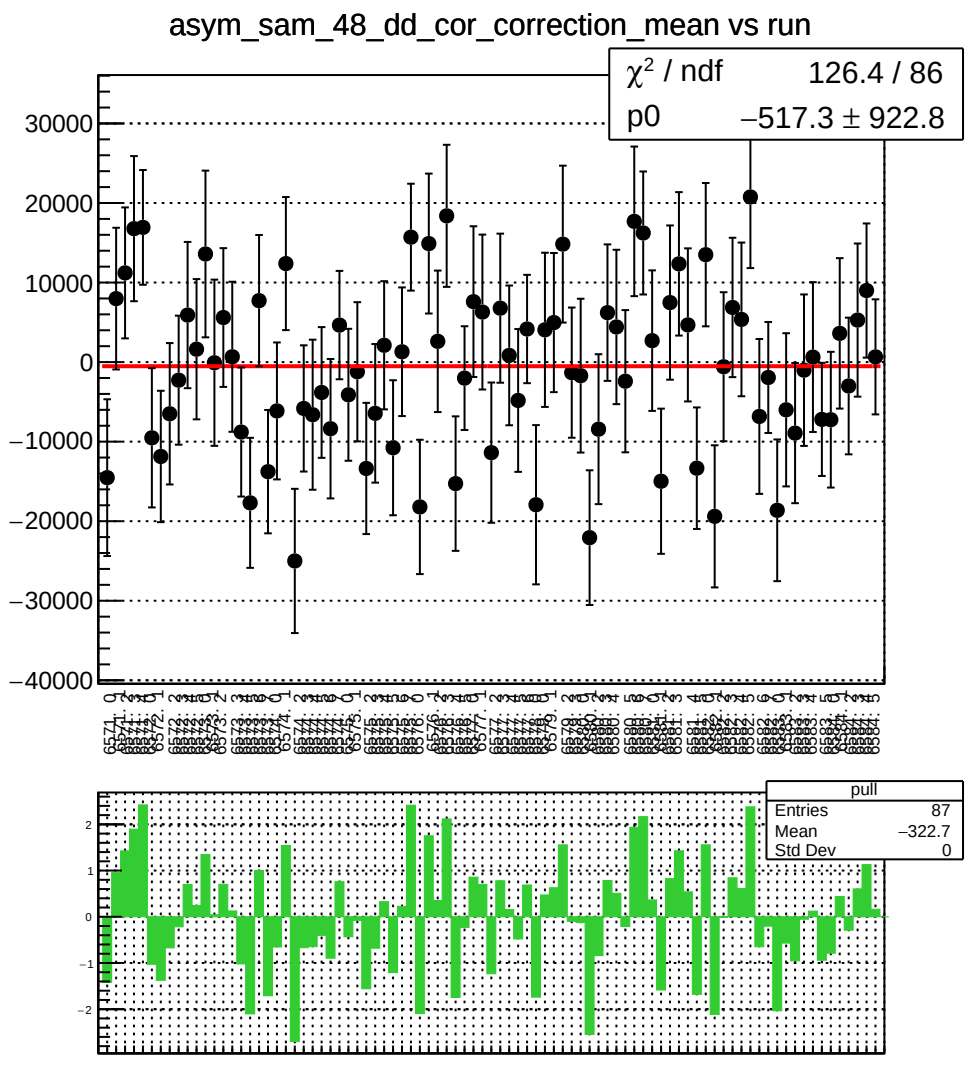

pull1D
Entries 87
Mean −0.001218
Std Dev 1.205

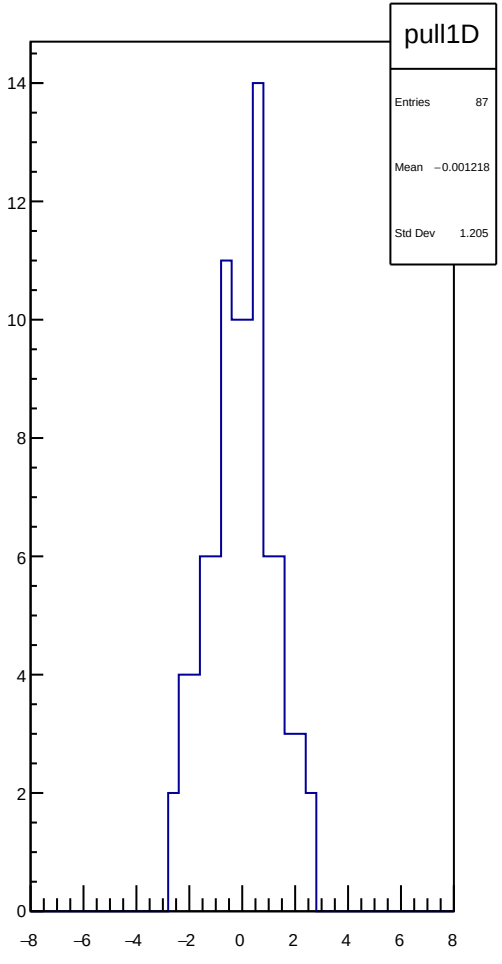

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 6643 / 86
p0 845.8 ± 0.6525
1000
950
900
850
800
750

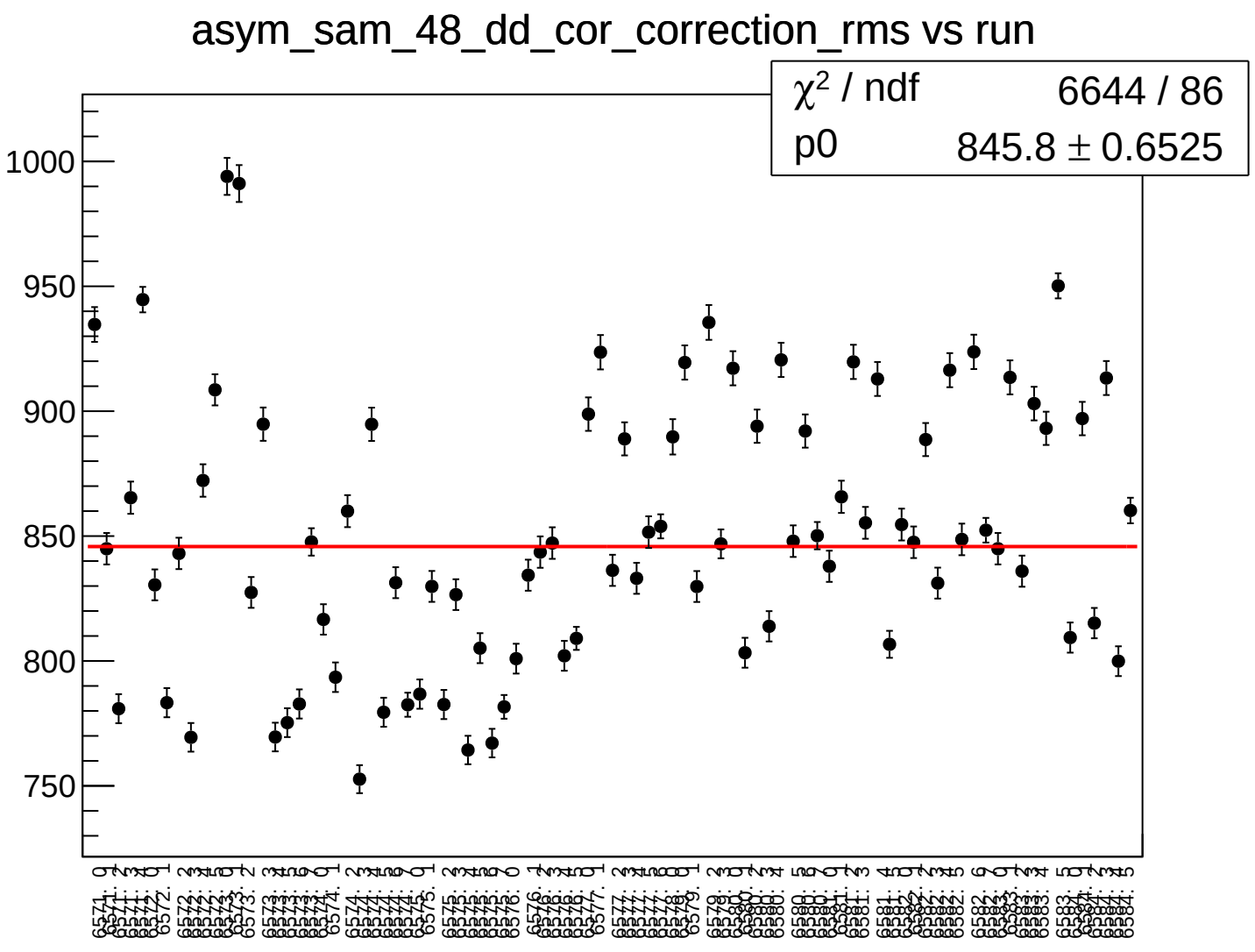

cor_asym_sam_48_dd_mean vs run
χ² / ndf 75.39 / 86
p0 354 ± 131.5
pull
Entries 87
Mean 133.5
Std Dev 0

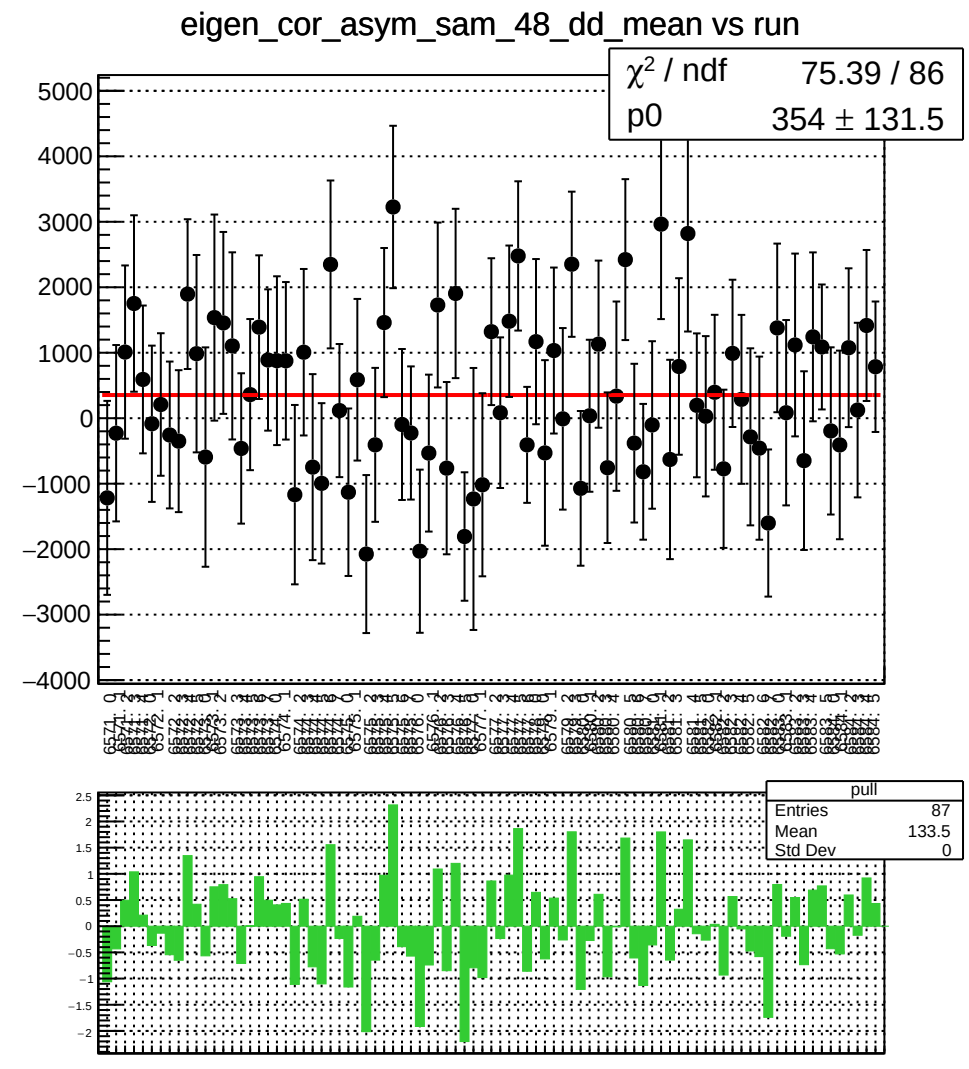

pull1D
Entries 87
Mean 0.005136
Std Dev 0.9308

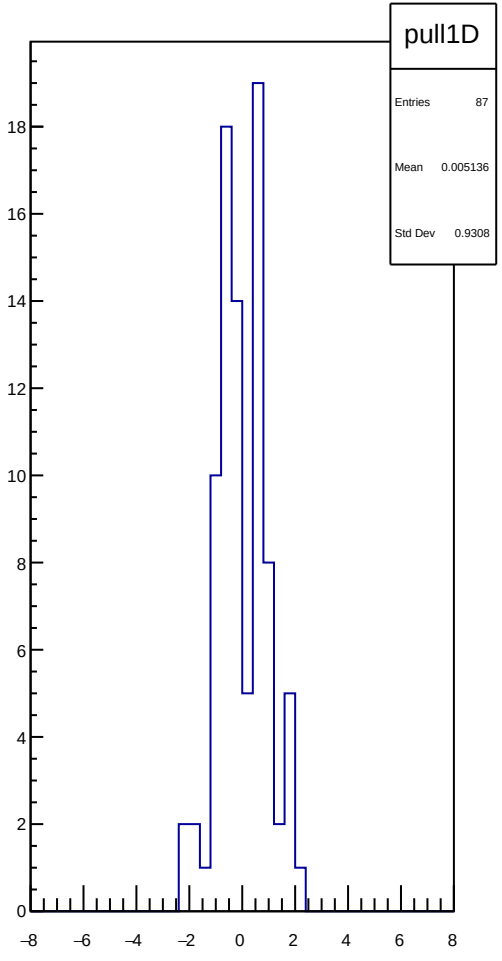

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.696e+04 / 86
p0 120.2 ± 0.09298
200
180
160
140
120
100

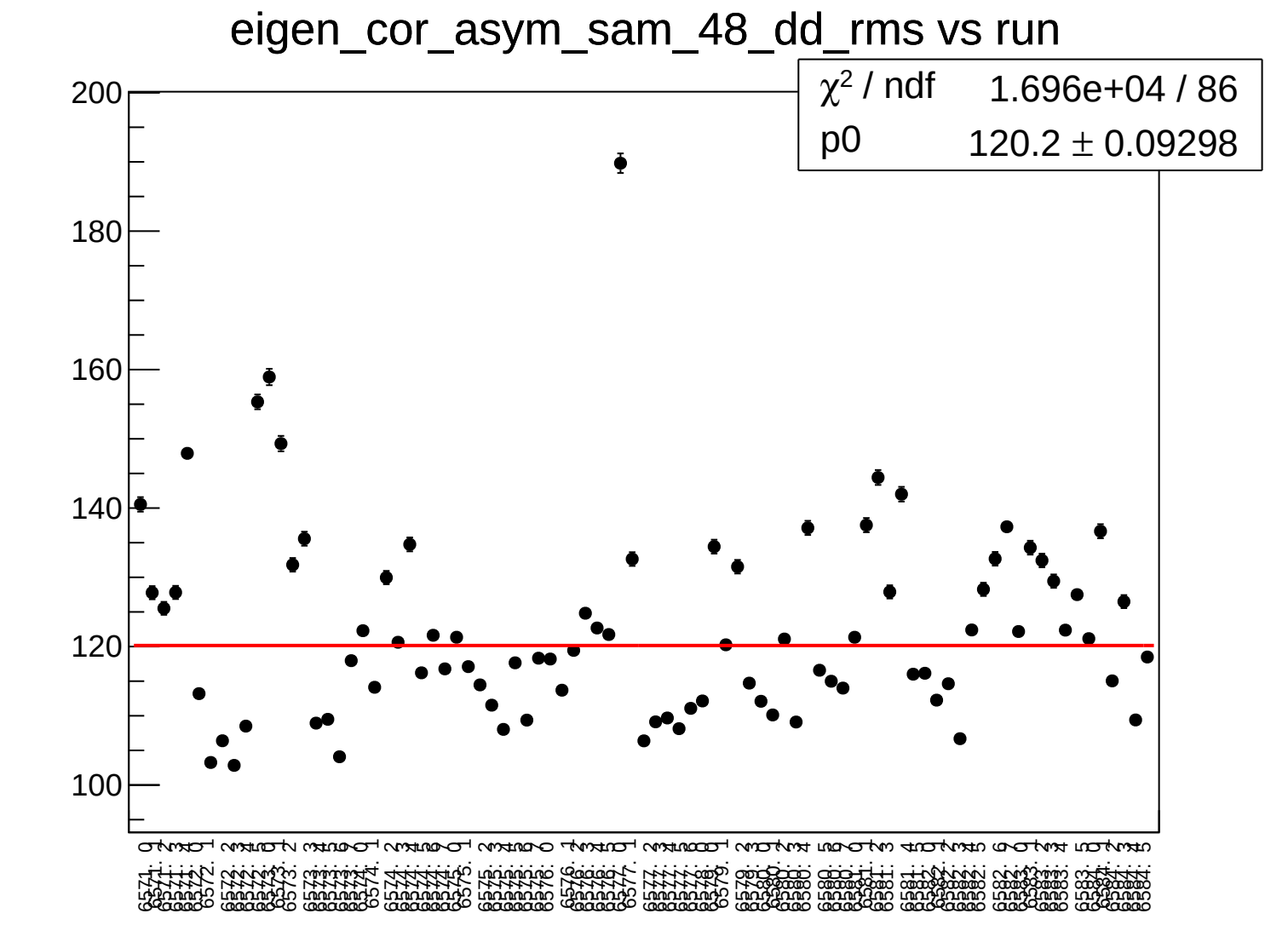

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 126.4 / 86
p0 −517.3 ± 922.8
pull
Entries 87
Mean −322.7
Std Dev 0

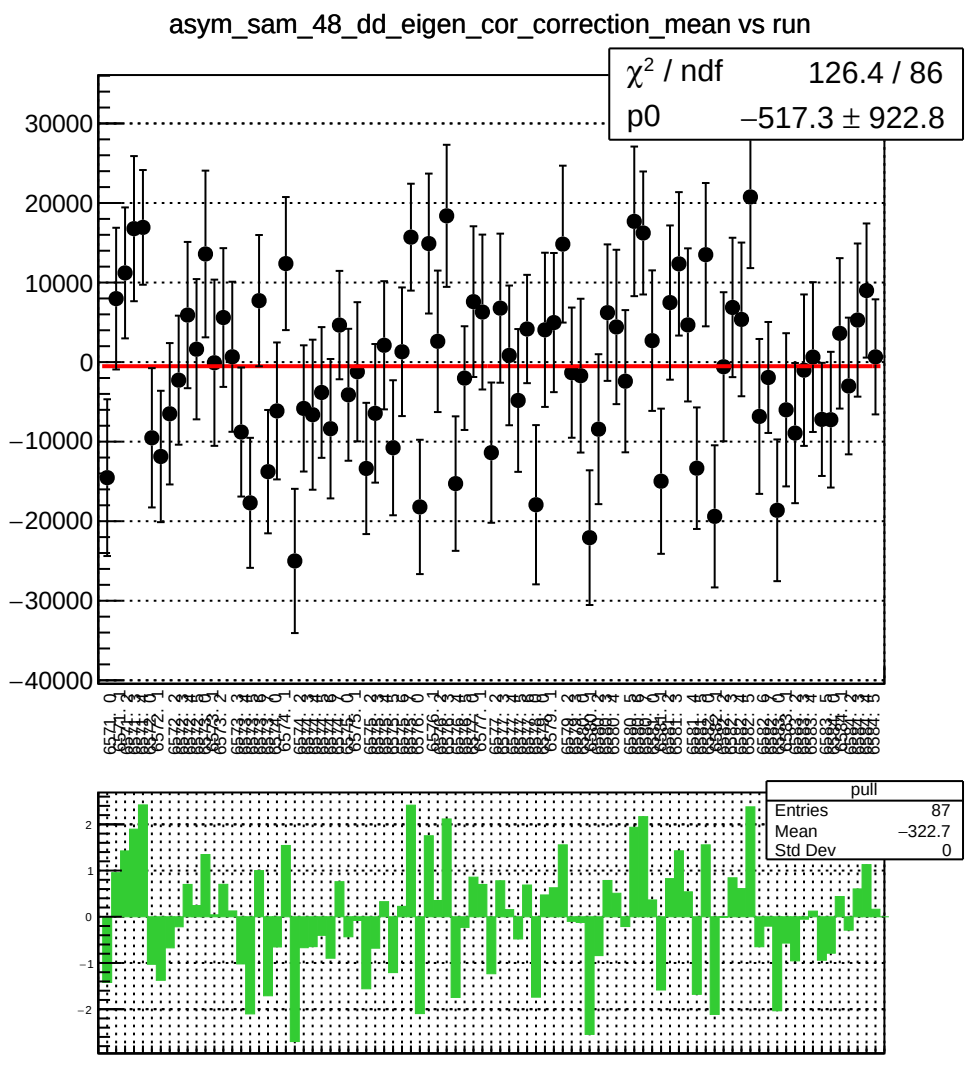

pull1D
Entries 87
Mean −0.001218
Std Dev 1.205

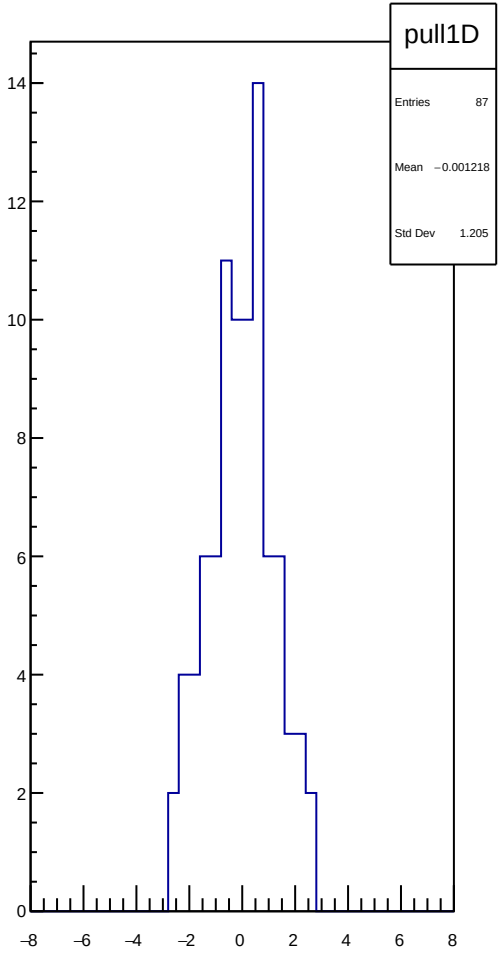

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 6644 / 86
p0 845.8 ± 0.6525
1000
950
900
850
800
750

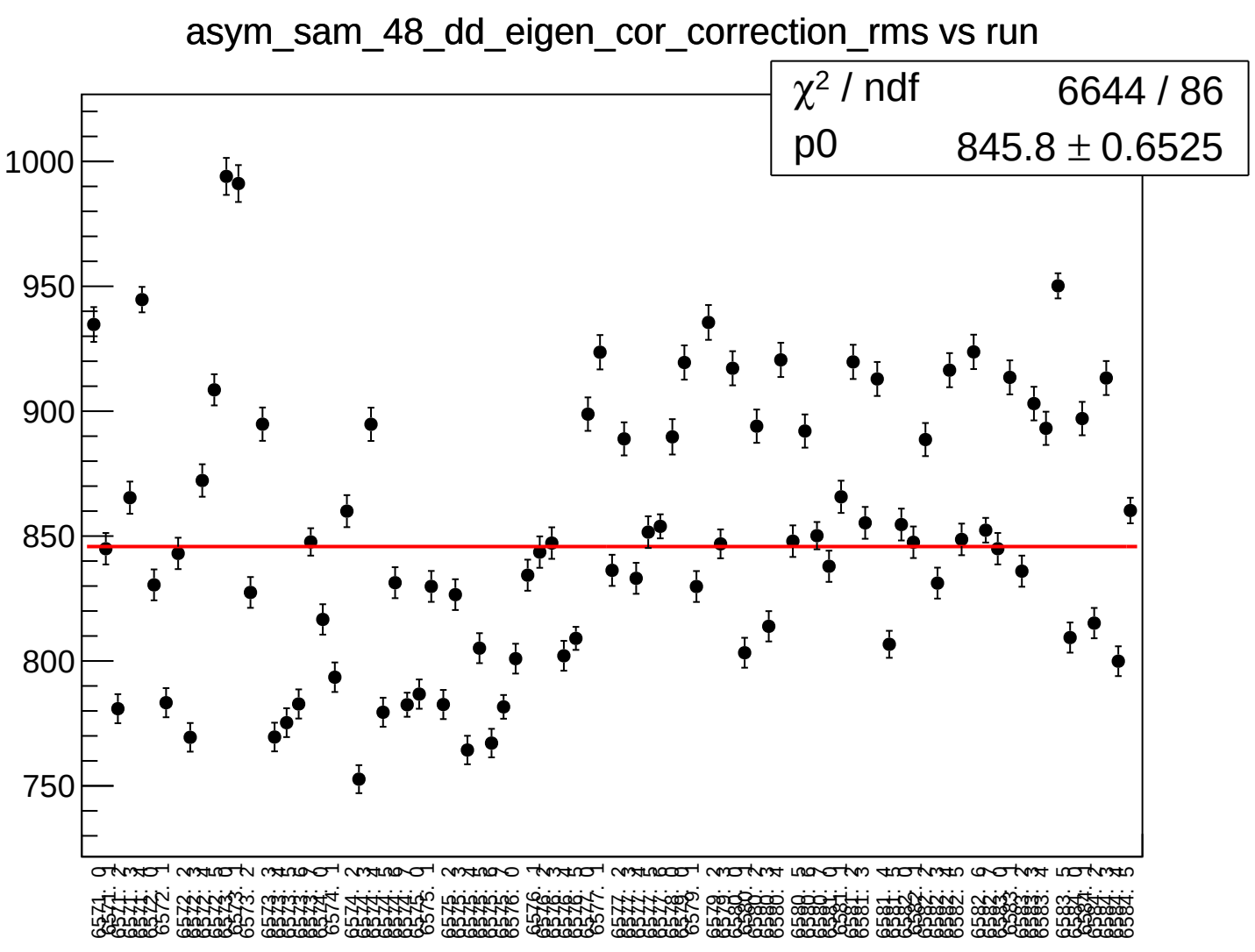

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 75.39 / 86
p0 354 ± 131.5
pull
Entries 87
Mean 133.5
Std Dev 0

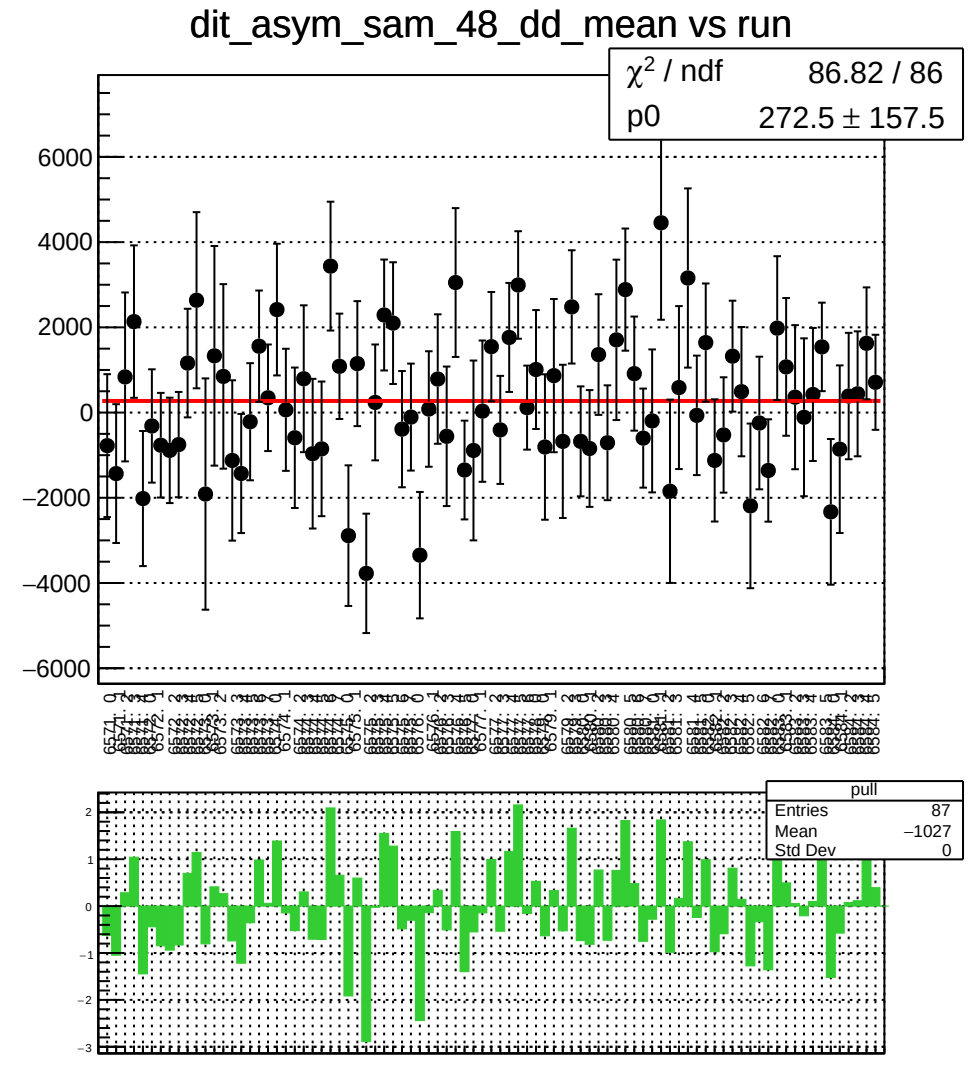

pull1D
Entries 87
Mean 0.005136
Std Dev 0.9308

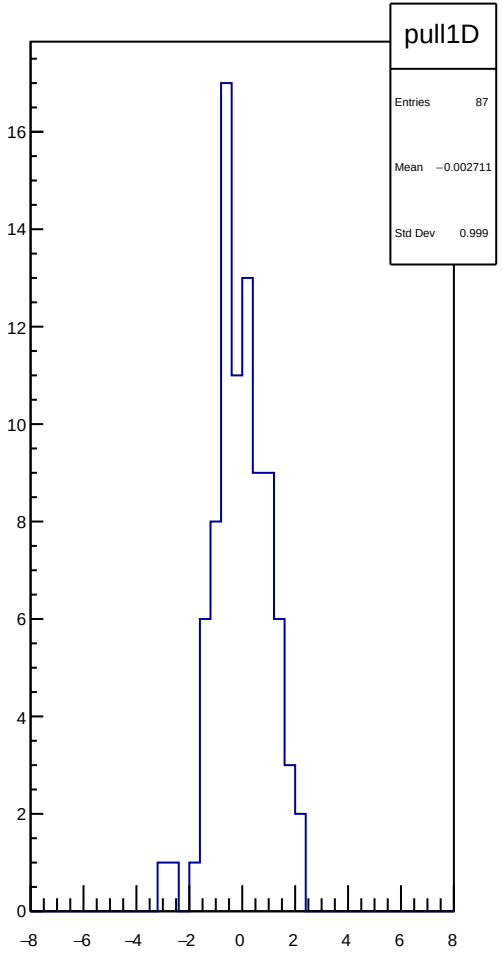

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.696e+04 / 86
p0 120.2 ± 0.09298
200
180
160
140
120
100

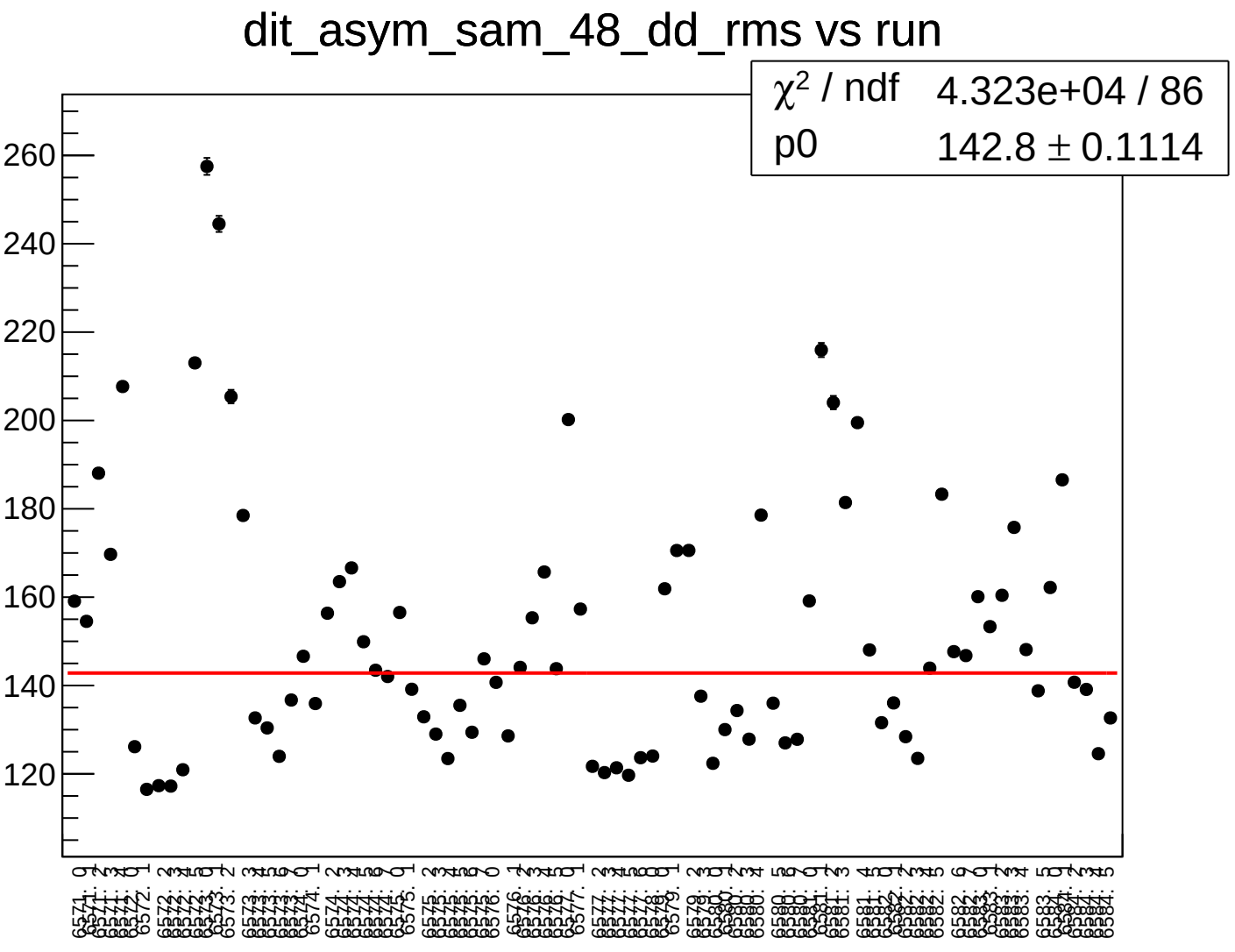

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 126.4 / 86
p0 −517.3 ± 922.8
pull
Entries 87
Mean −322.7
Std Dev 0

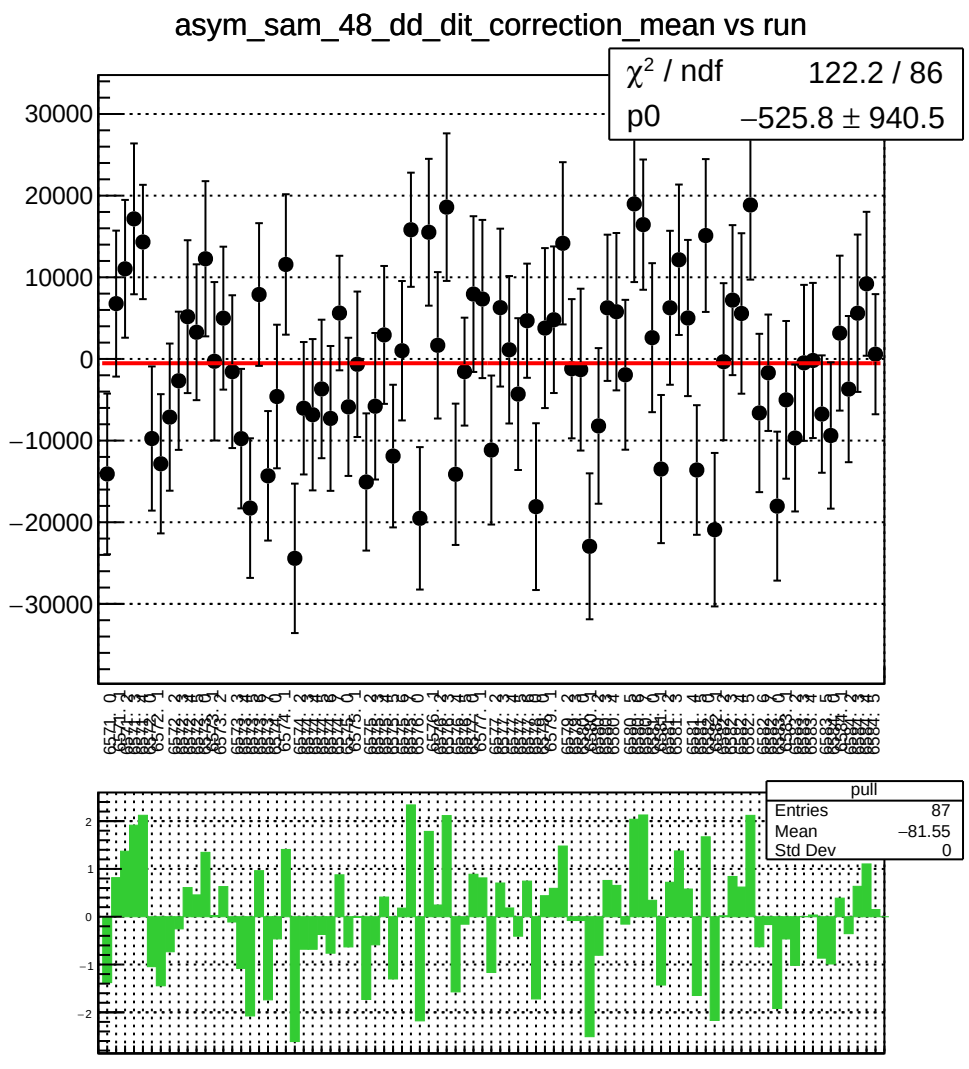

pull1D
Entries 87
Mean −0.001218
Std Dev 1.205

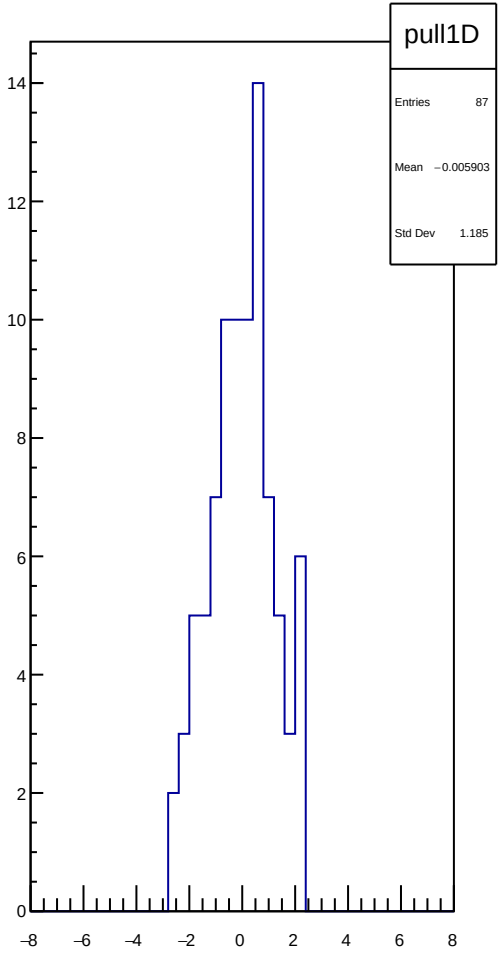

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6644 / 86
p0 845.8 ± 0.6525
1000
950
900
850
800
750

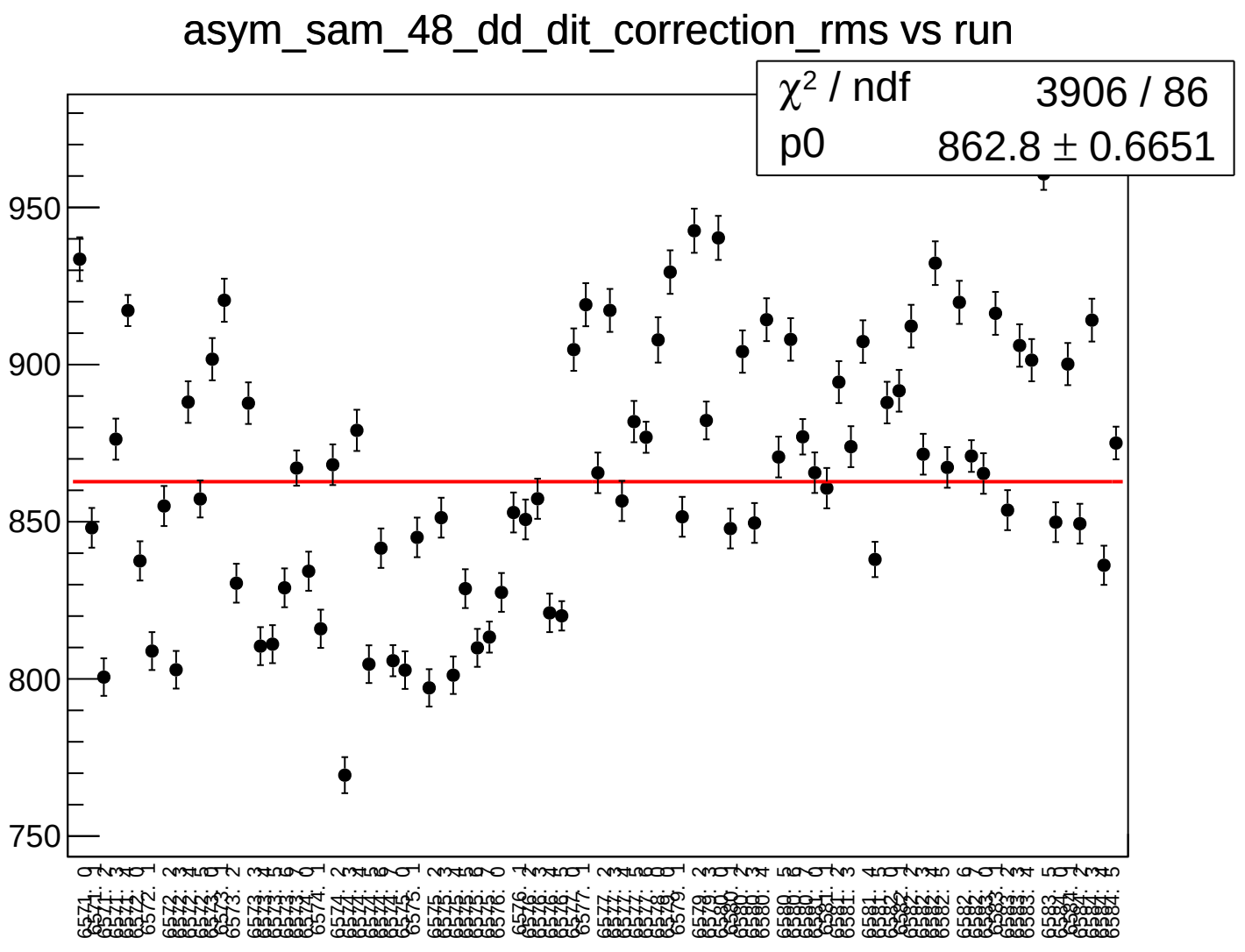

dit_asym_sam_48_dd_mean vs run
χ² / ndf 86.82 / 86
p0 272.5 ± 157.5
pull
Entries 87
Mean −1027
Std Dev 0

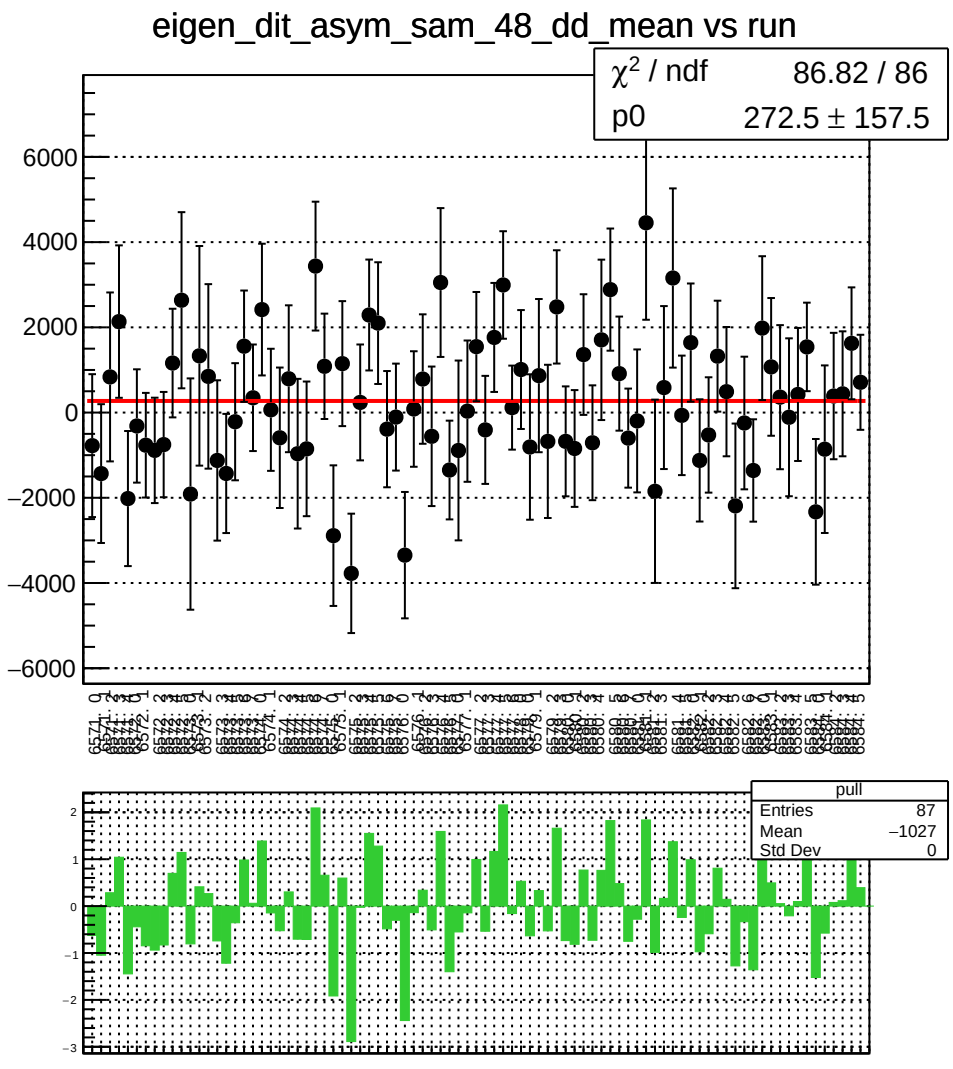

pull1D
Entries 87
Mean −0.002711
Std Dev 0.999

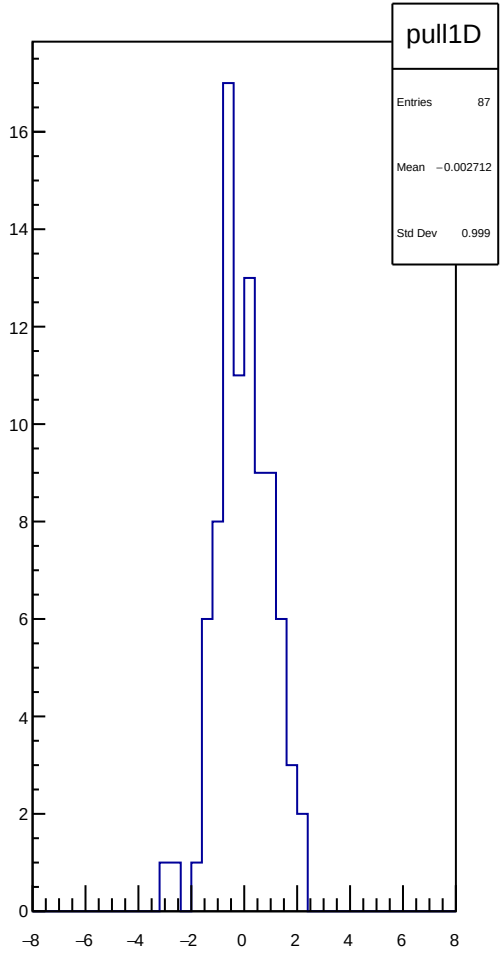

dit_asym_sam_48_dd_rms vs run
χ² / ndf 4.323e+04 / 86
p0 142.8 ± 0.1114
260
240
220
200
180
160
140
120

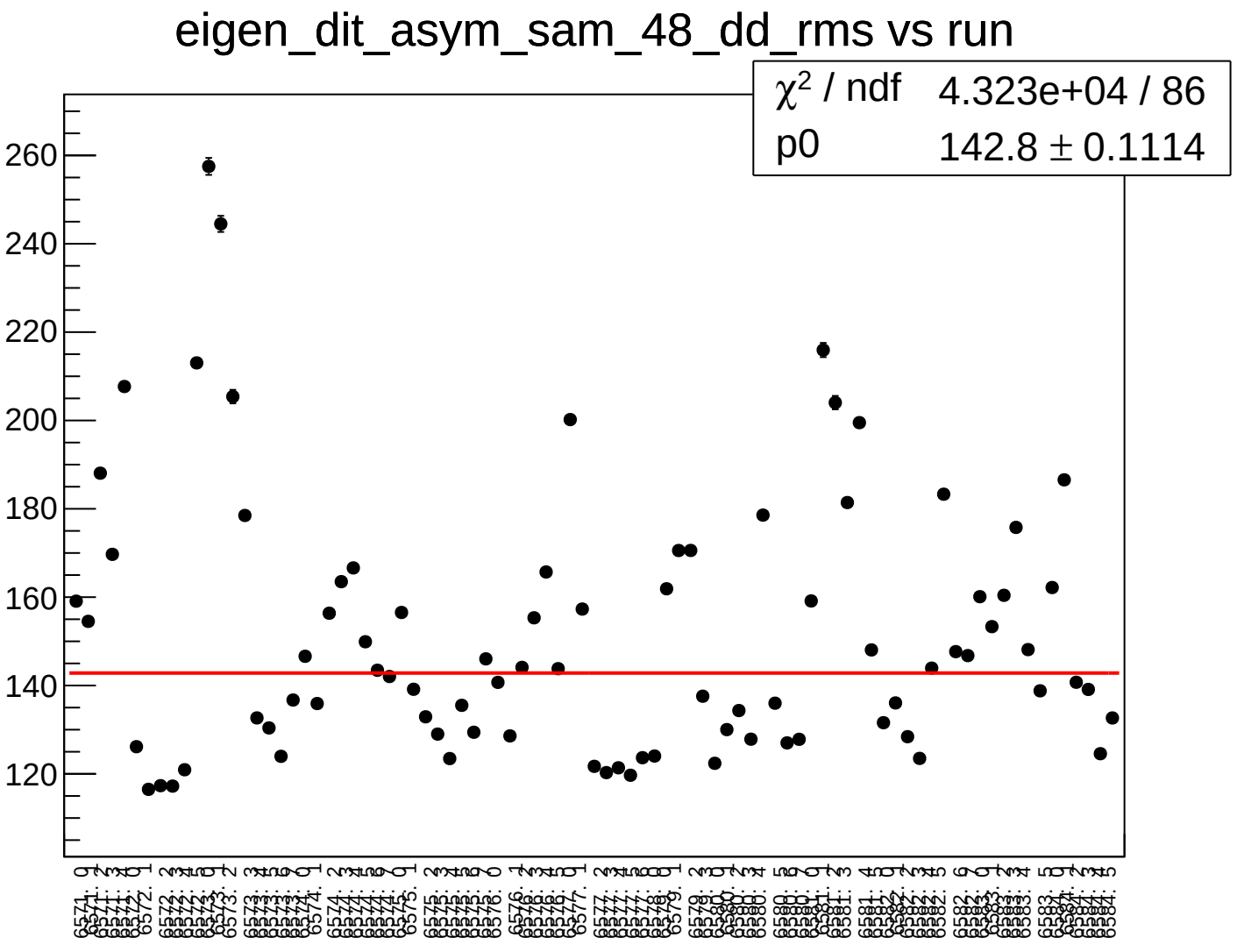

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 122.2 / 86
p0 −525.8 ± 940.5
pull
Entries 87
Mean −81.55
Std Dev 0

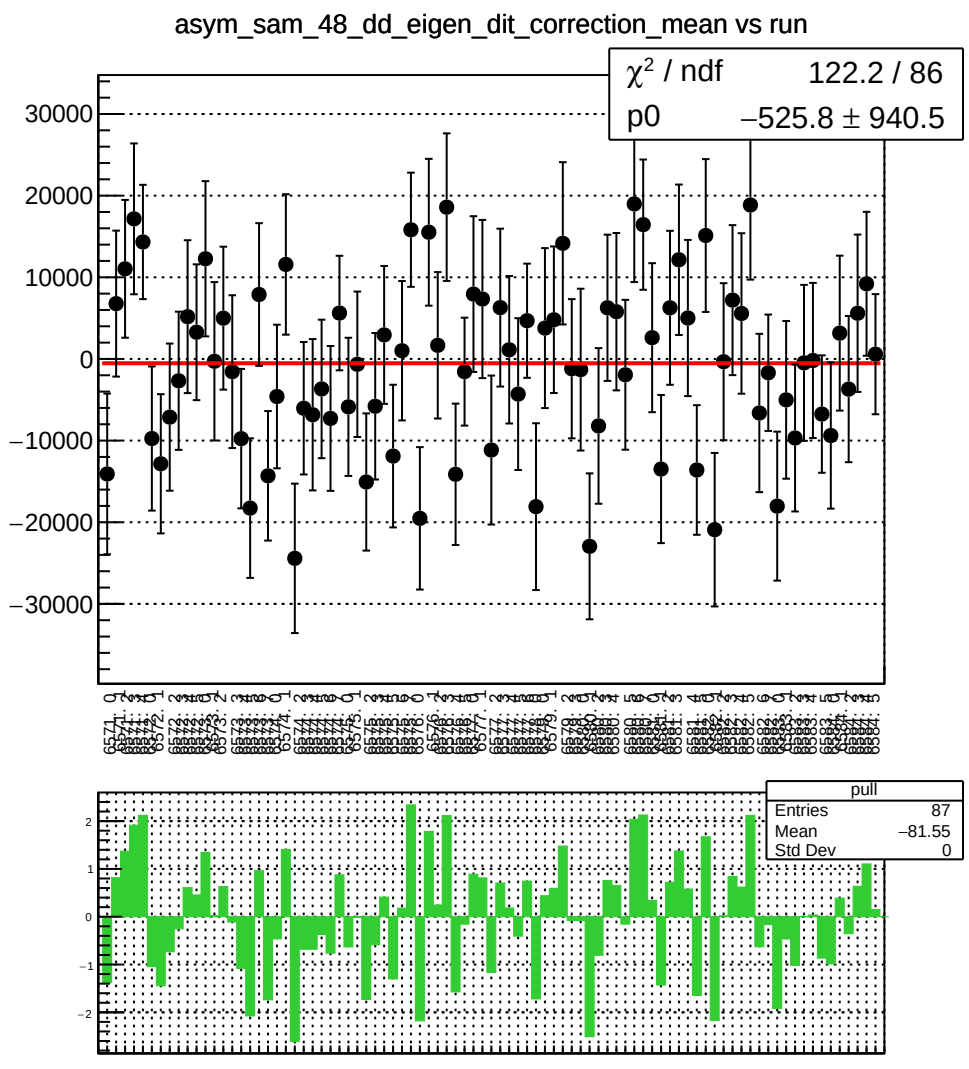

pull1D
Entries 87
Mean −0.005903
Std Dev 1.185

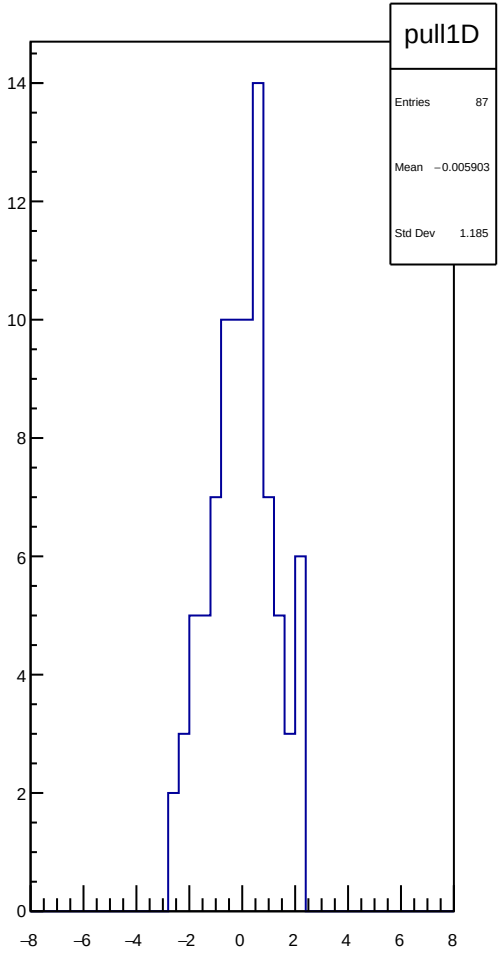

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 3906 / 86
p0 862.8 ± 0.6651
950
900
850
800
750

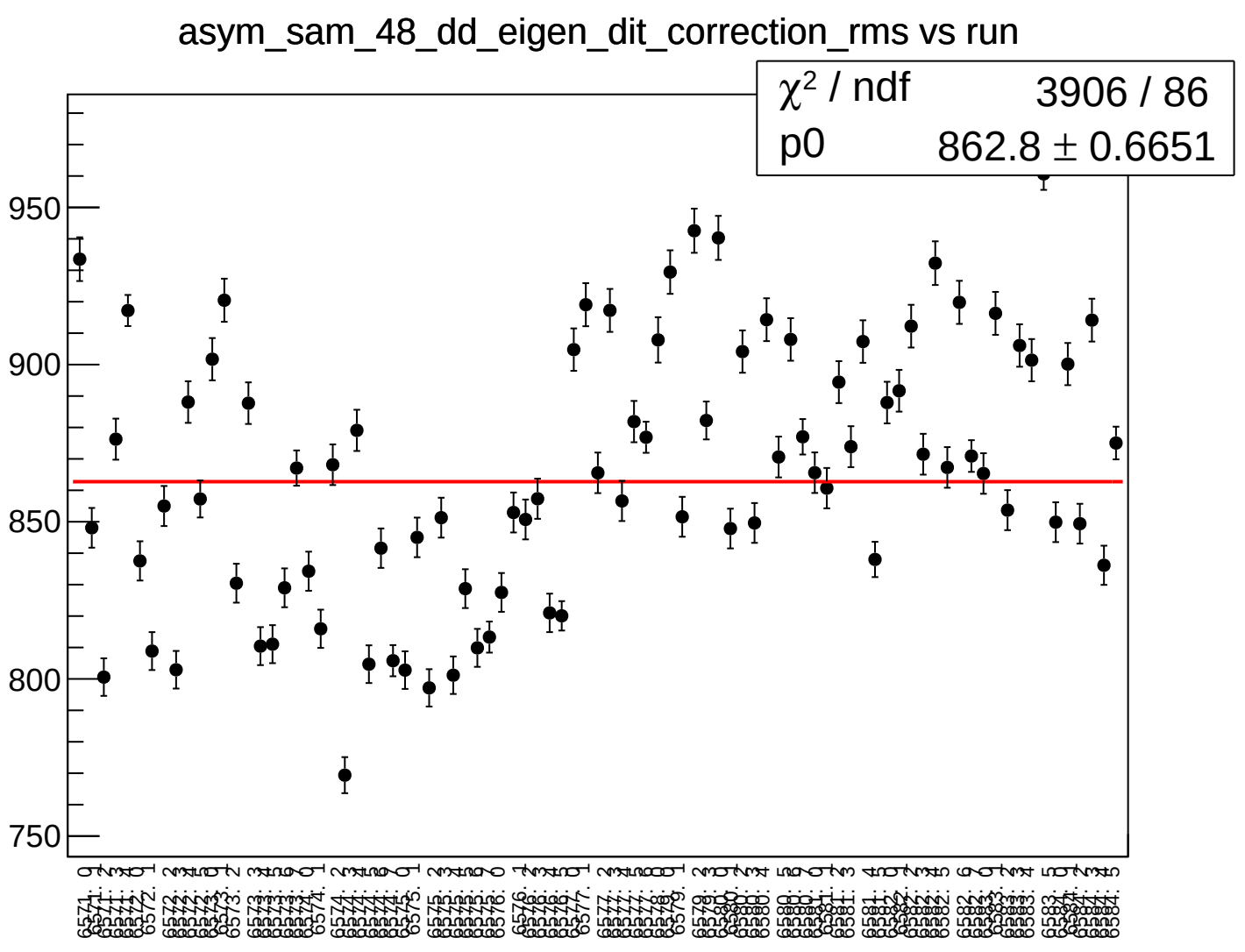

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 86.82 / 86
p0 272.5 ± 157.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −1027
Std Dev 0
2
1
0
−1
−2
−3

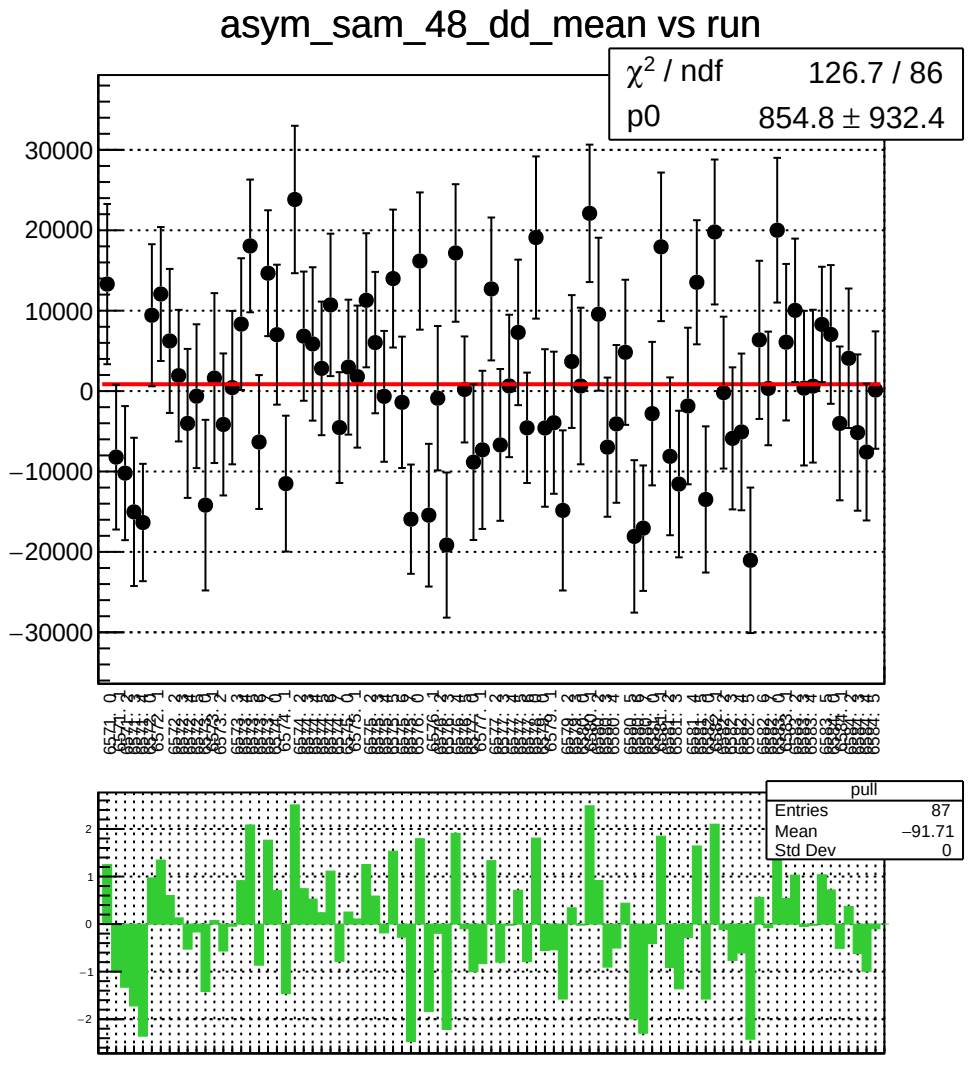

pull1D
Entries 87
Mean −0.002712
Std Dev 0.999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

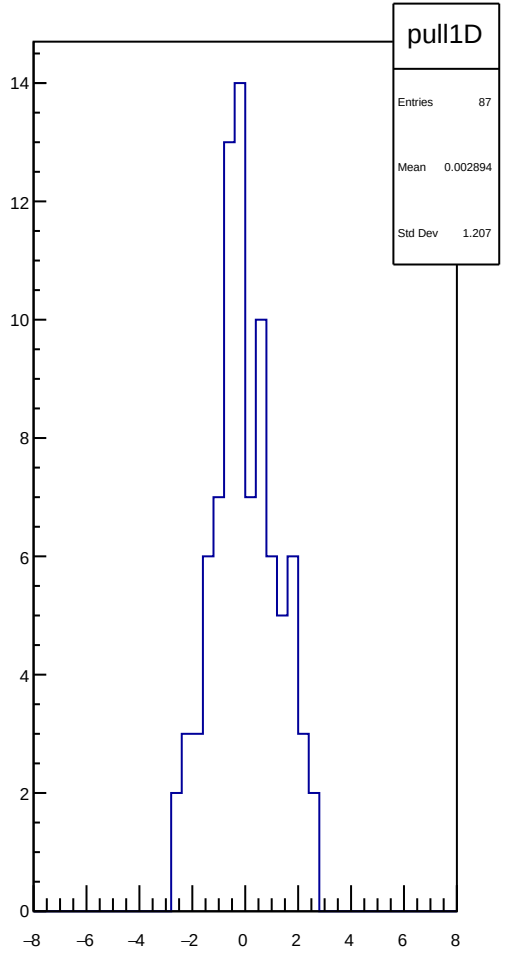

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 4.323e+04 / 86
p0 142.8 ± 0.1114
260
240
220
200
180
160
140
120

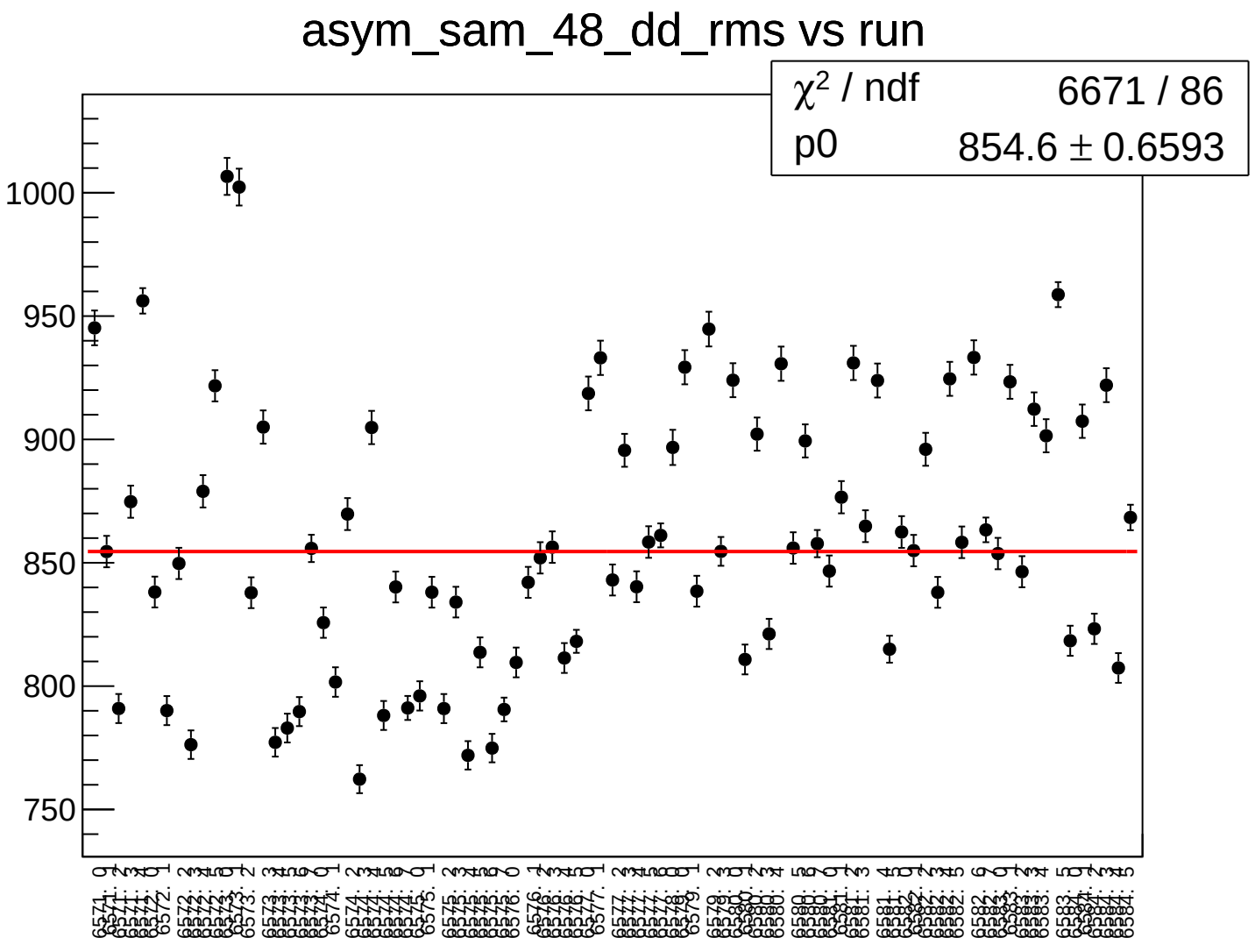

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 122.2 / 86
p0 −525.8 ± 940.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −81.55
Std Dev 0
2
1
0
−1
−2

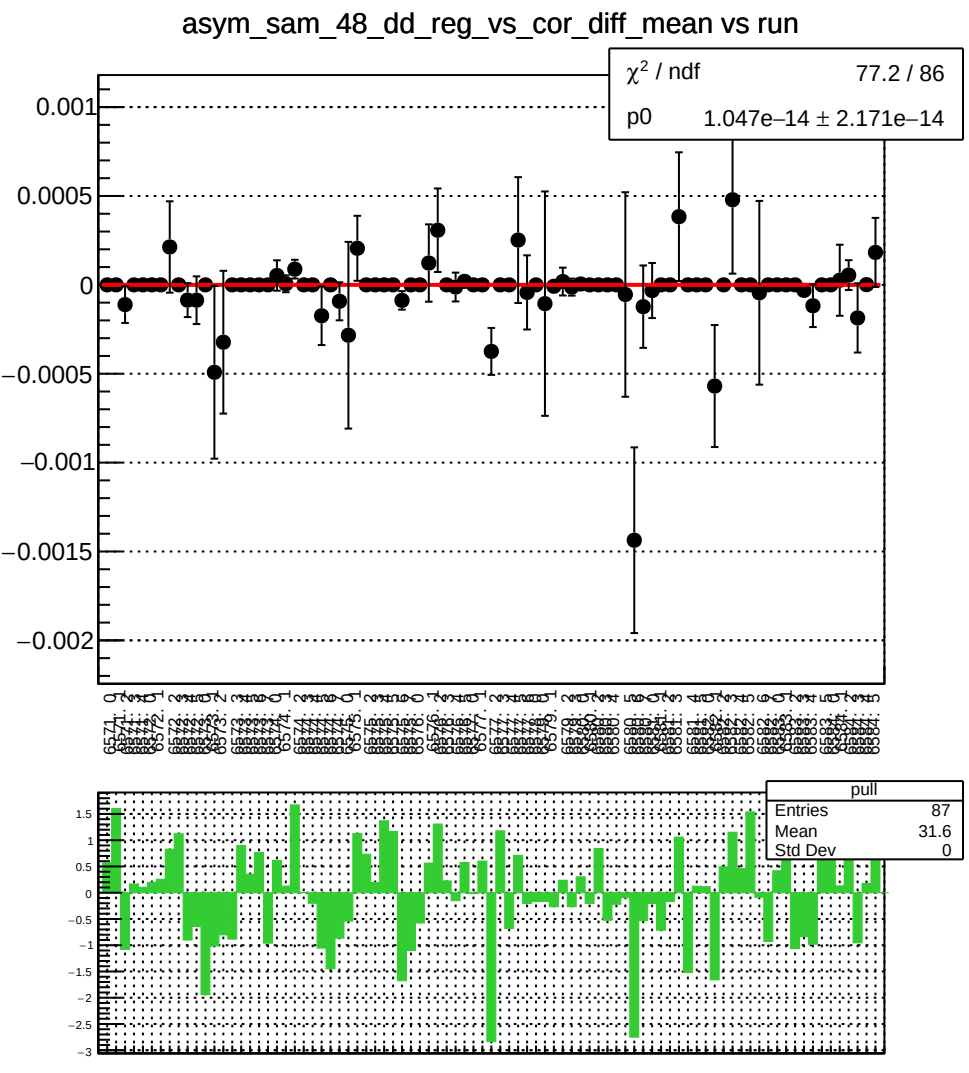

pull1D
Entries 87
Mean −0.005903
Std Dev 1.185
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

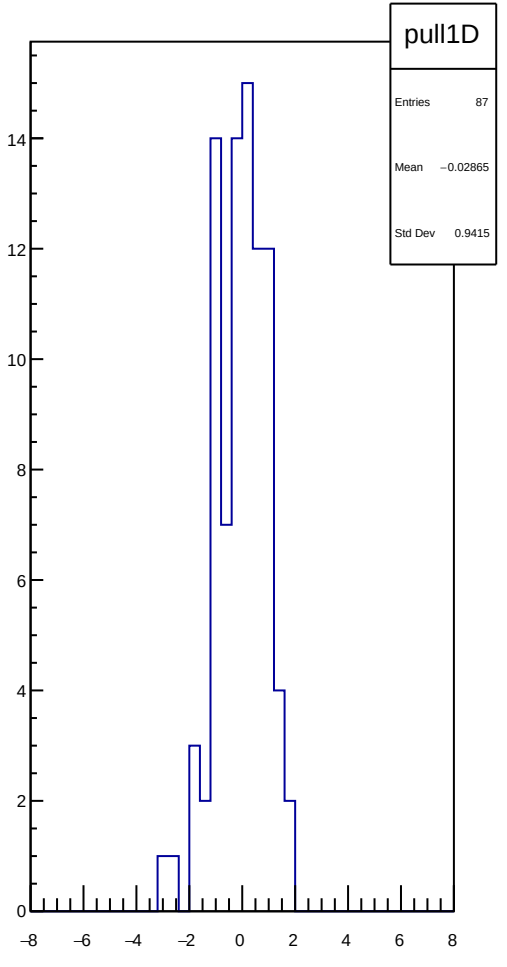

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3906 / 86
p0 862.8 ± 0.6651
950
900
850
800
750

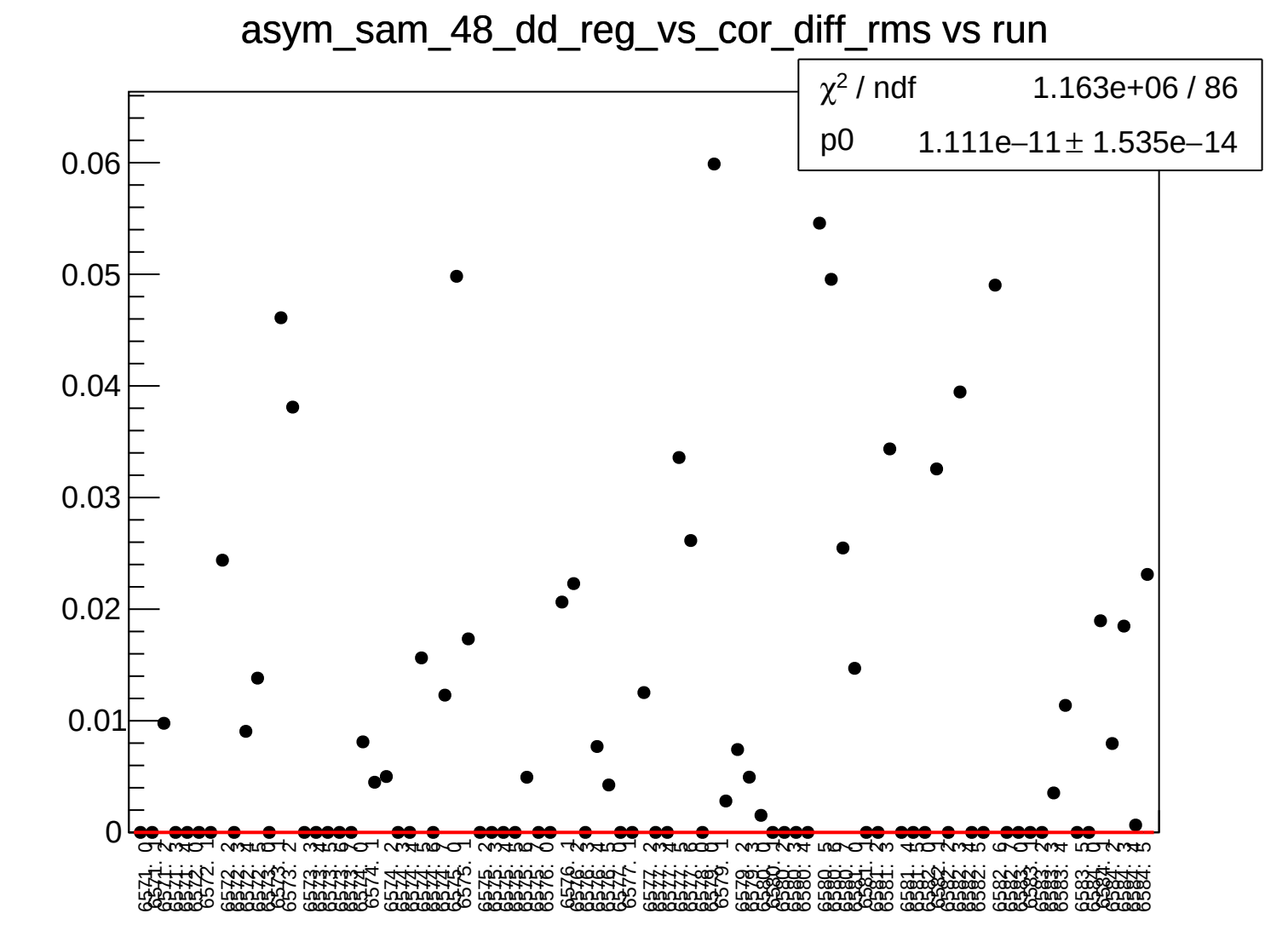

asym_sam_48_dd_mean vs run
χ² / ndf 126.7 / 86
p0 854.8 ± 932.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −91.71
Std Dev 0
2
1
0
−1
−2

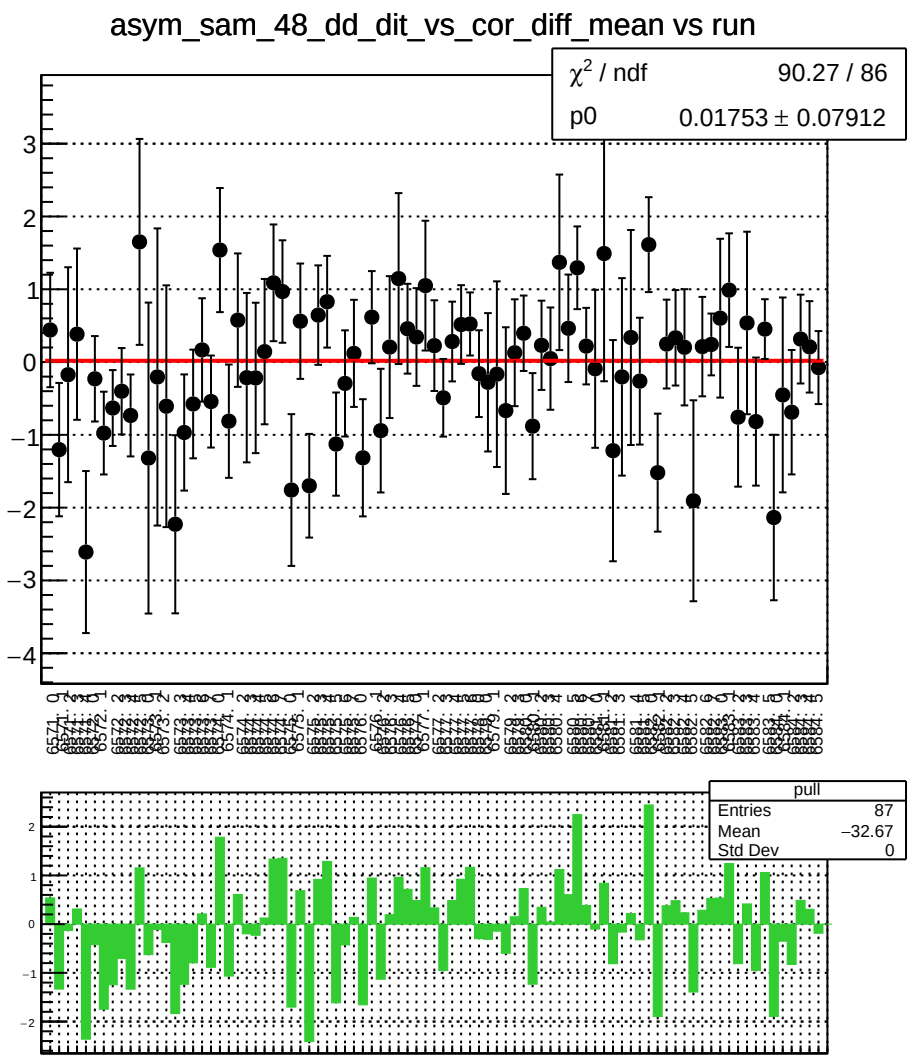

pull1D
Entries 87
Mean 0.002894
Std Dev 1.207
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

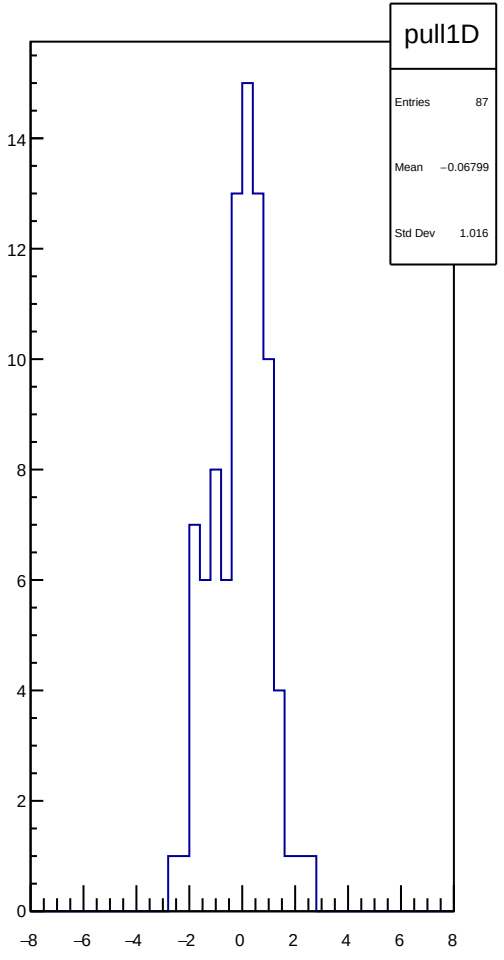

asym_sam_48_dd_rms vs run
χ² / ndf 6671 / 86
p0 854.6 ± 0.6593
1000
950
900
850
800
750

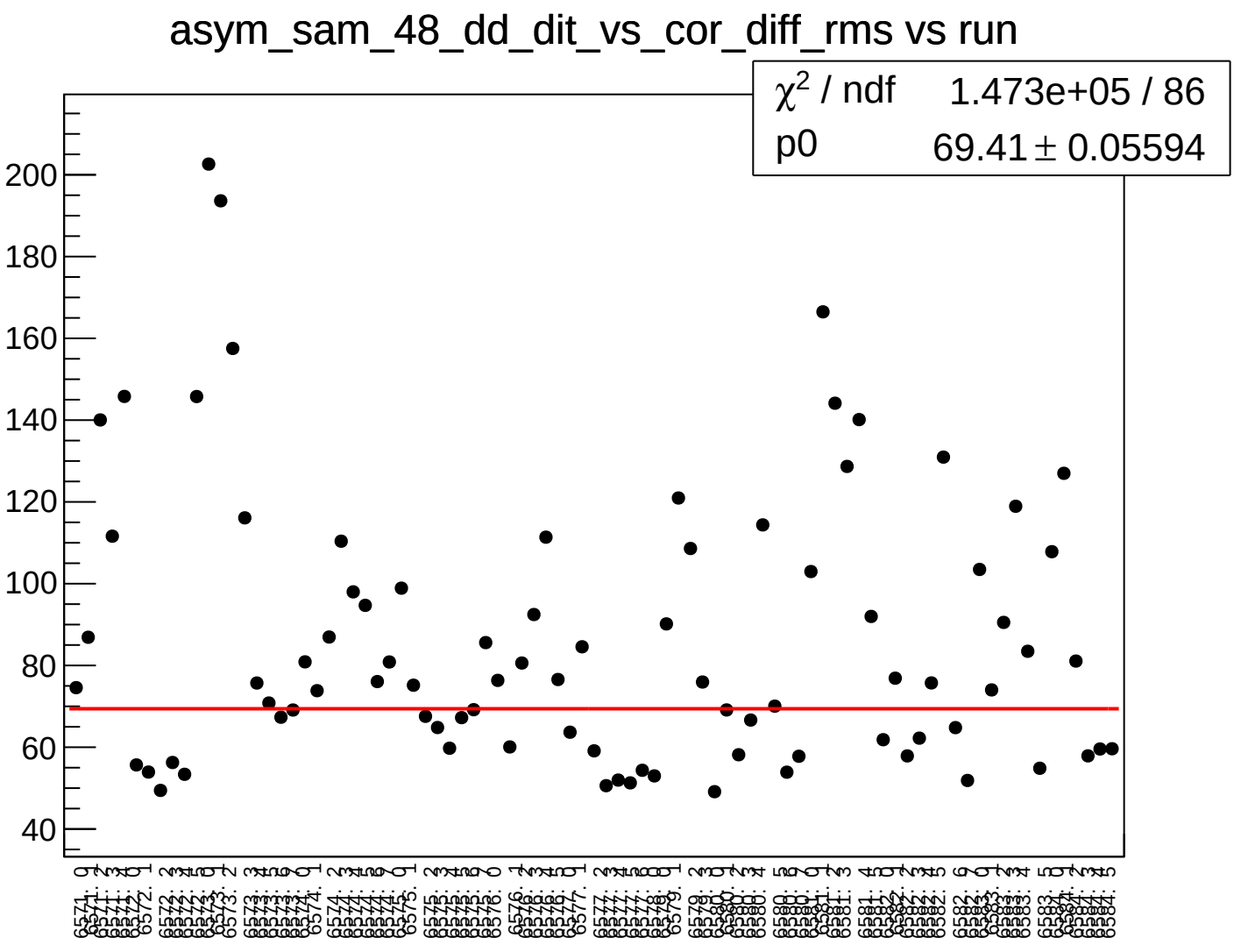

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.2 / 86
p0 1.047e−14 ± 2.171e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 87
Mean 31.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

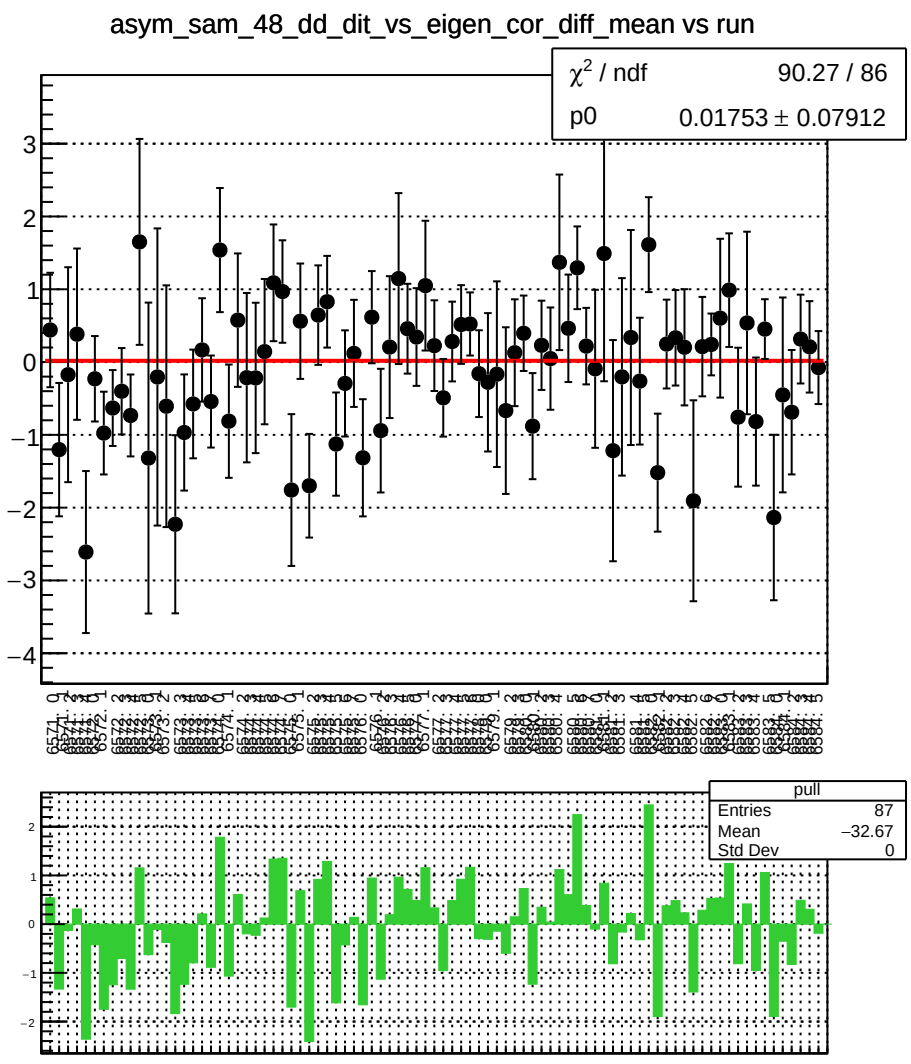

pull1D
Entries 87
Mean −0.02865
Std Dev 0.9415
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

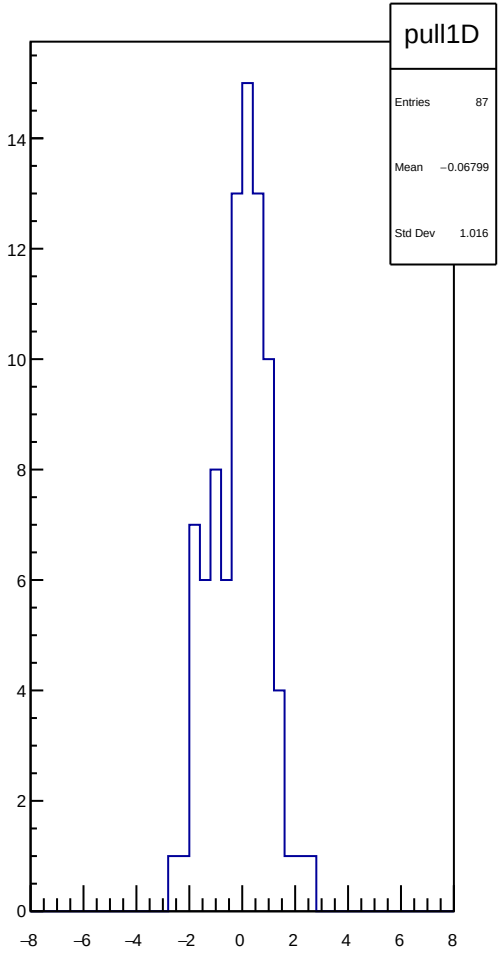

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 86
p0 1.111e−11 ± 1.535e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

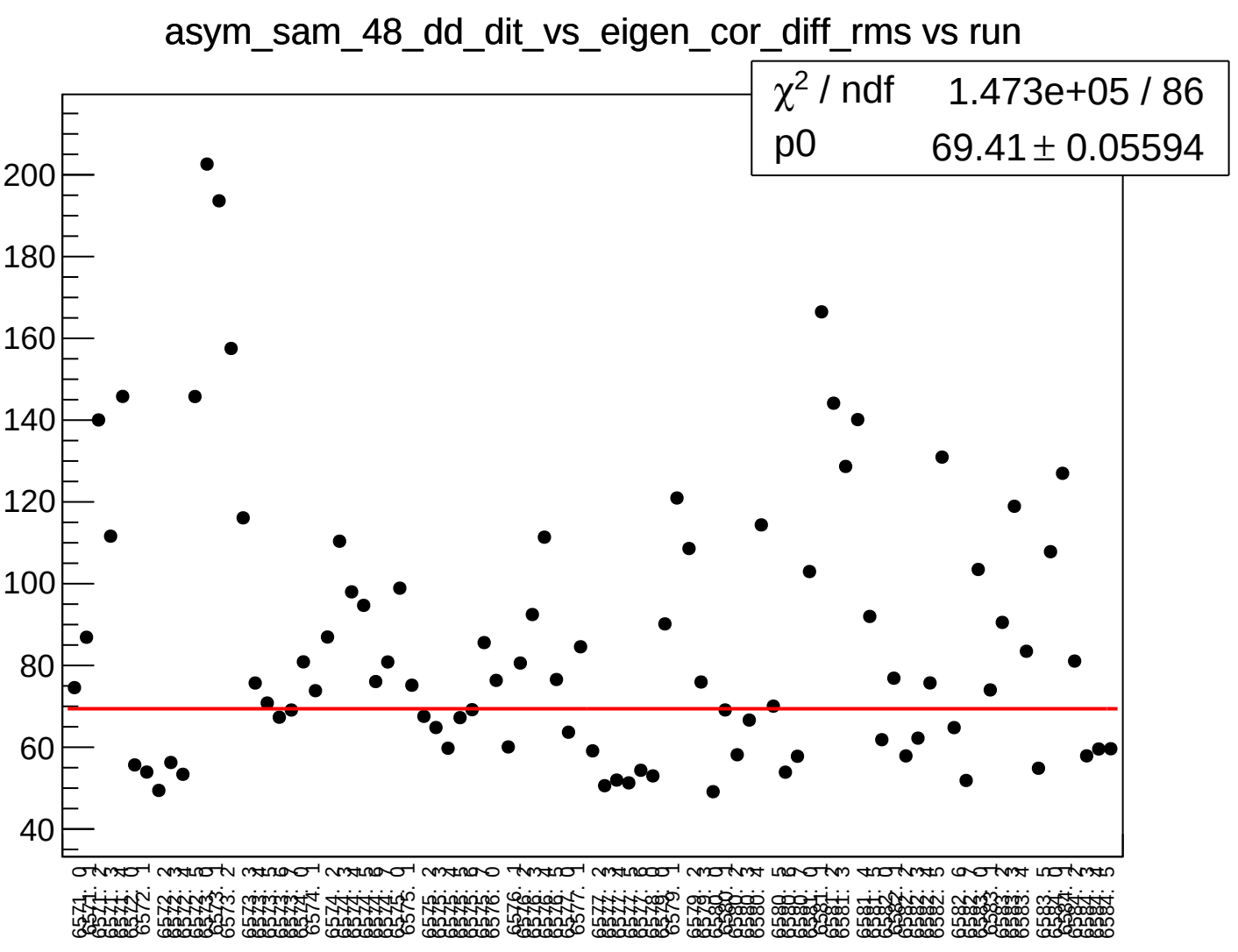

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.27 / 86
p0 0.01753 ± 0.07912
pull
Entries 87
Mean −32.67
Std Dev 0

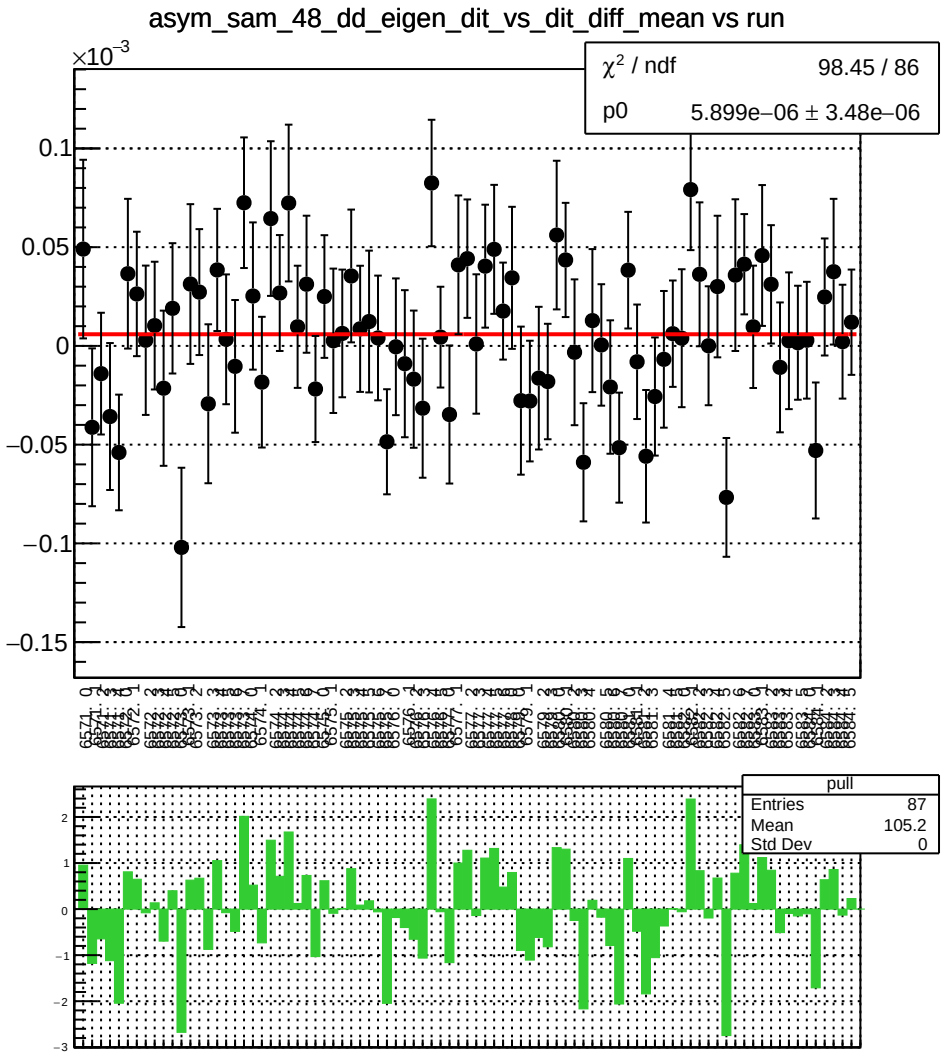

pull1D
Entries 87
Mean −0.06799
Std Dev 1.016

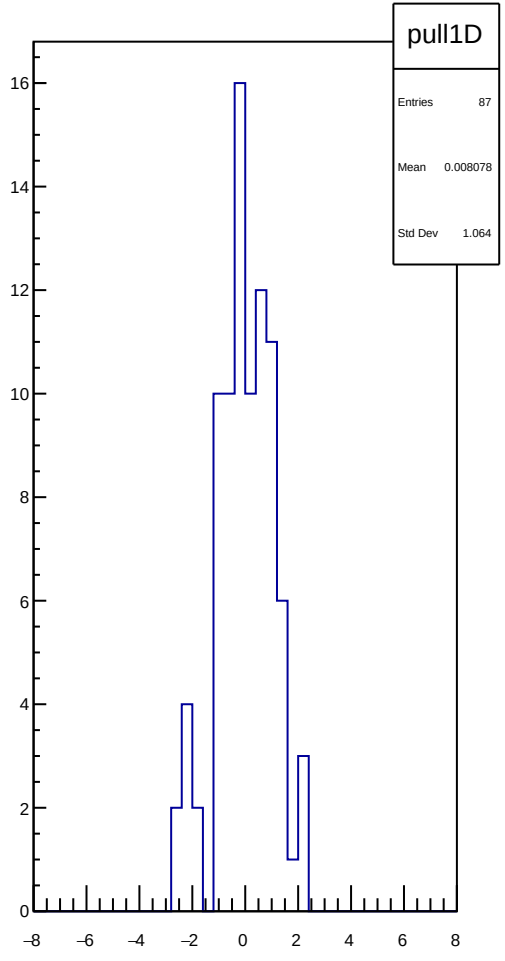

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.473e+05 / 86
p0 69.41 ± 0.05594
200
180
160
140
120
100
80
60
40

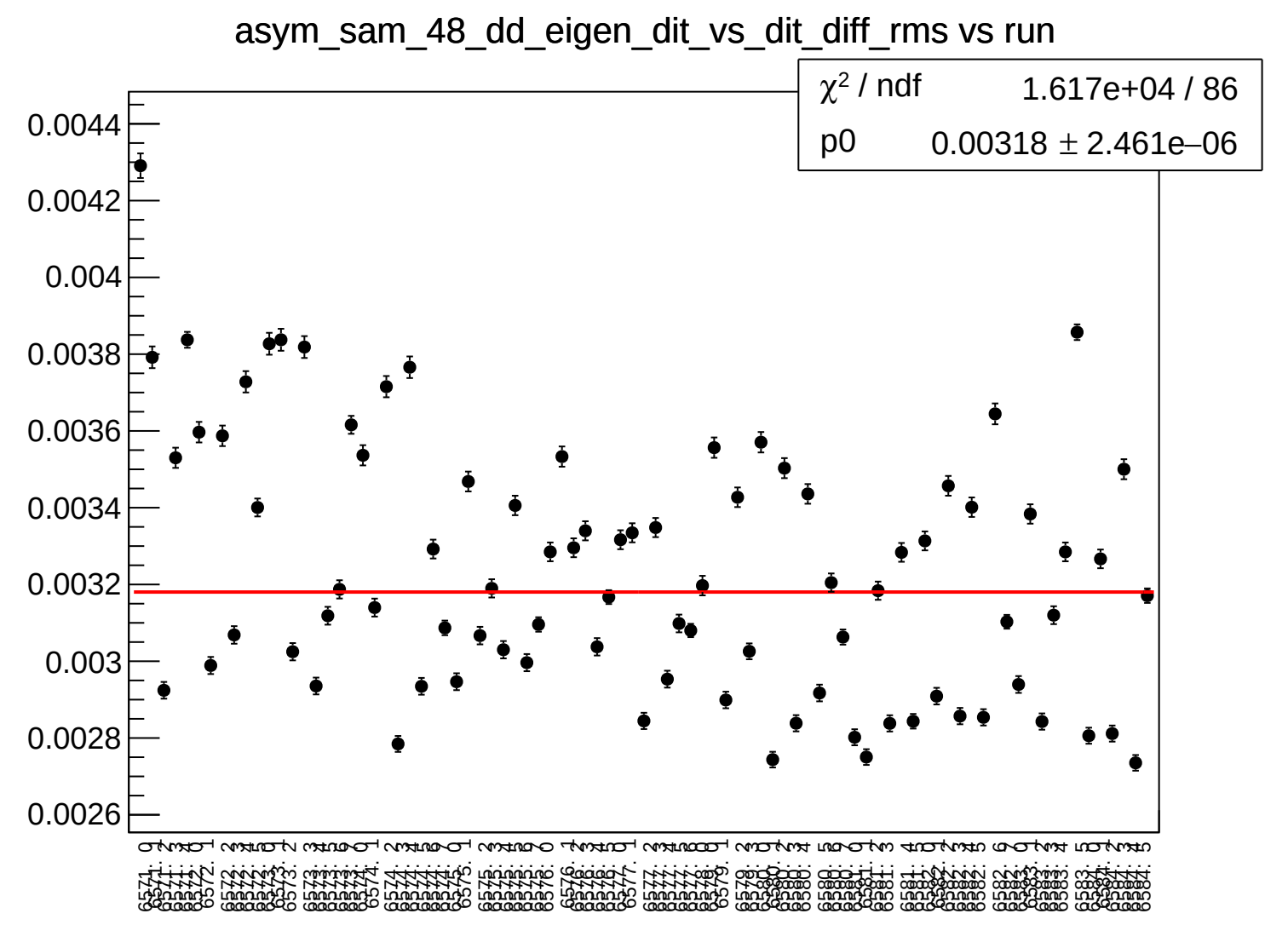

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.27 / 86
p0 0.01753 ± 0.07912
pull
Entries 87
Mean −32.67
Std Dev 0

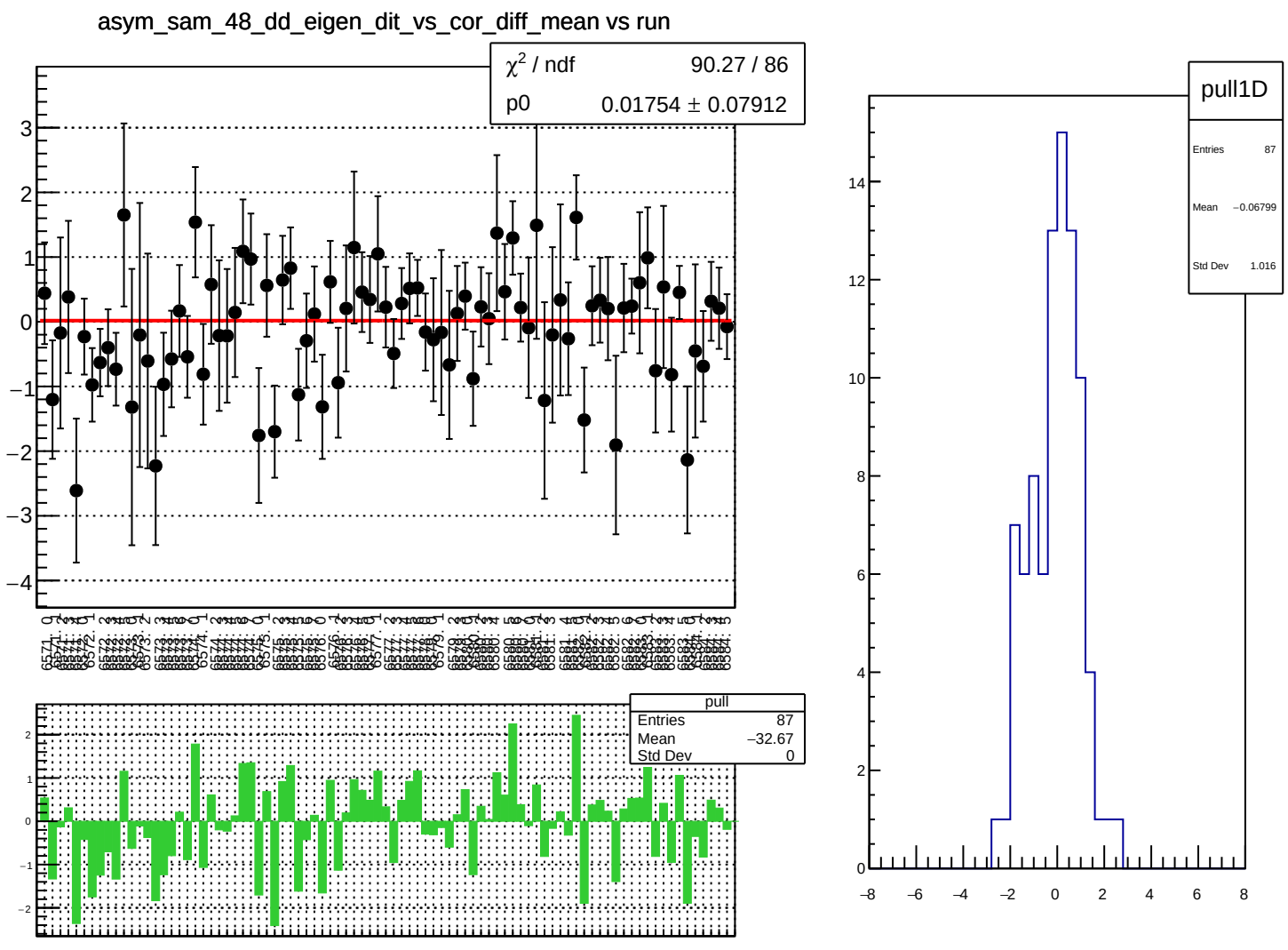

pull1D
Entries 87
Mean −0.06799
Std Dev 1.016

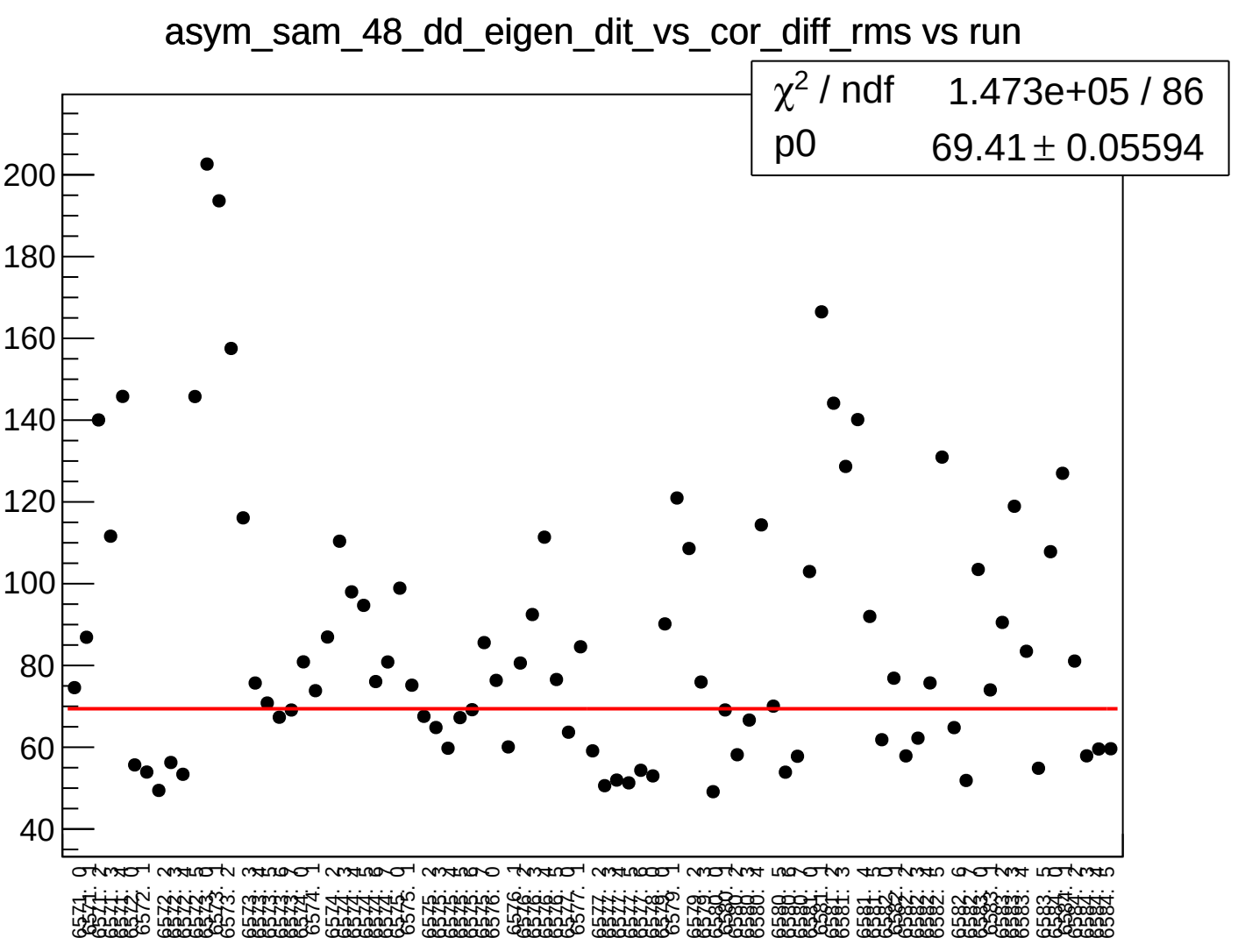

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.473e+05 / 86
p0 69.41 ± 0.05594
200
180
160
140
120
100
80
60
40

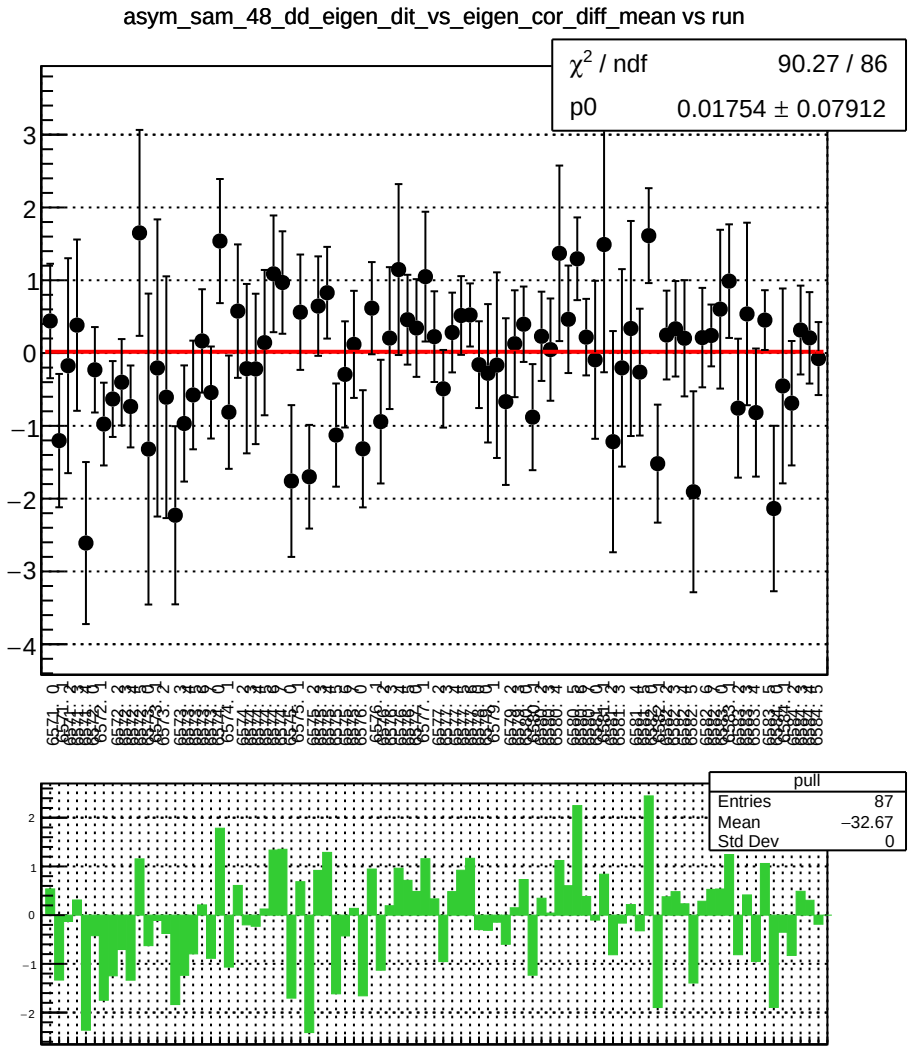

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.45 / 86
p0 5.899e−06 ± 3.48e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean 105.2
Std Dev 0
2
1
0
−1
−2
−3

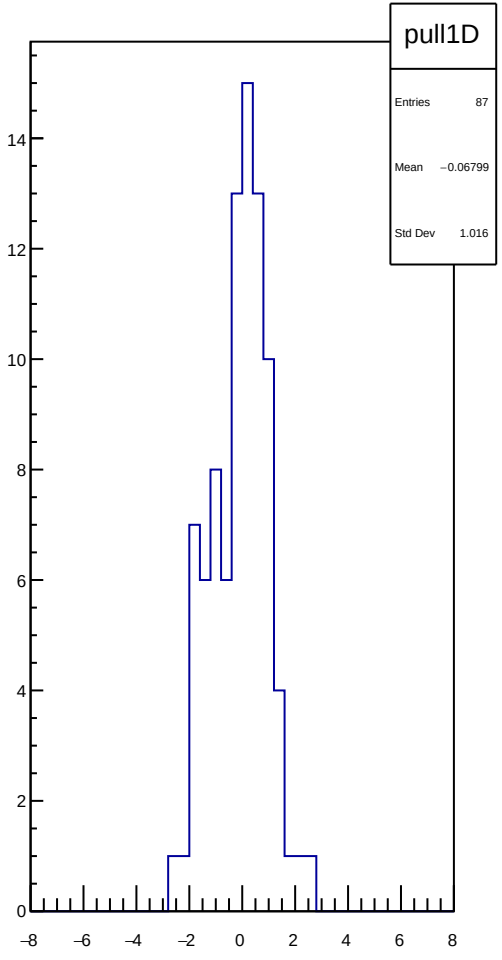

pull1D
Entries 87
Mean 0.008078
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

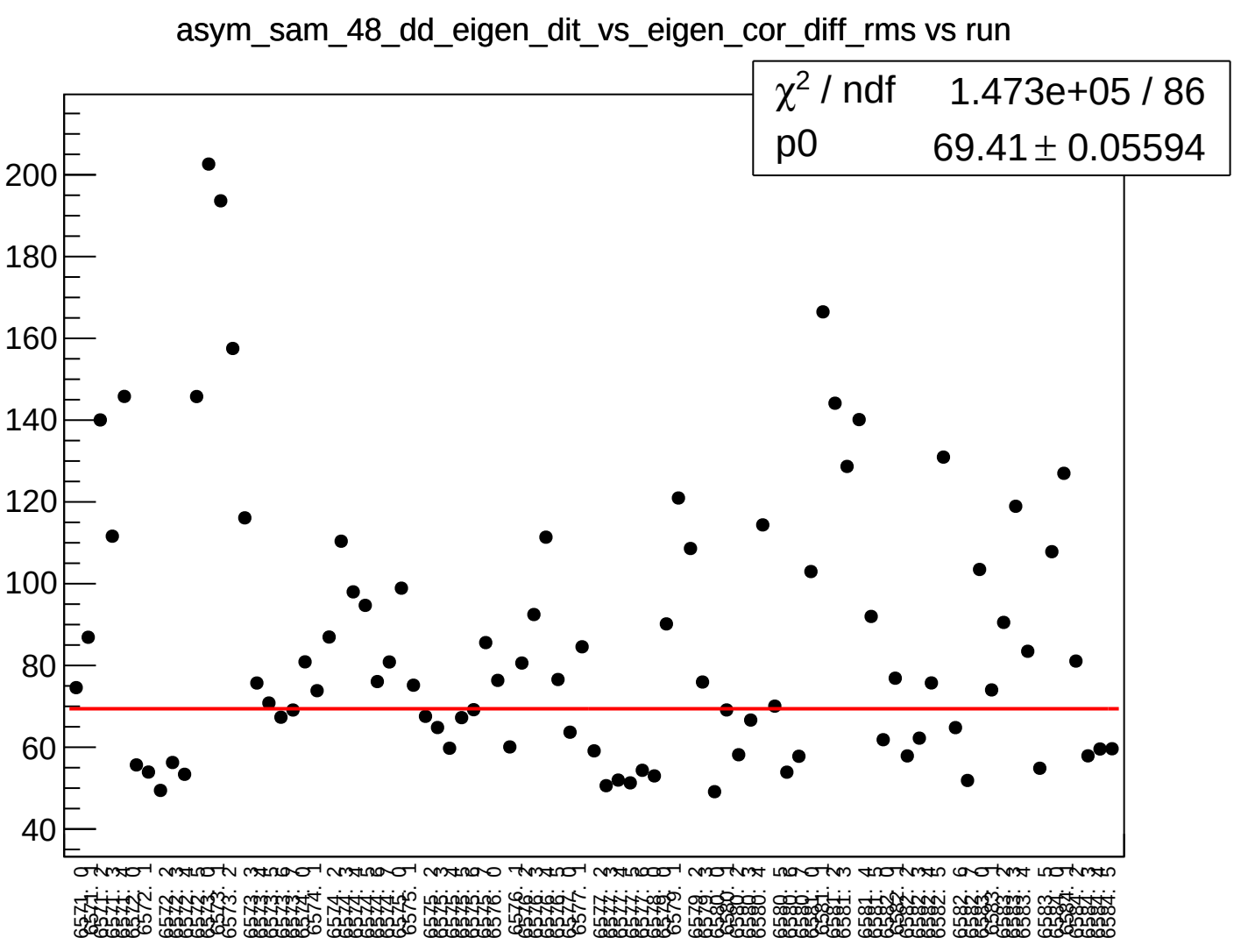

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.617e+04 / 86
p0 0.00318 ± 2.461e–06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

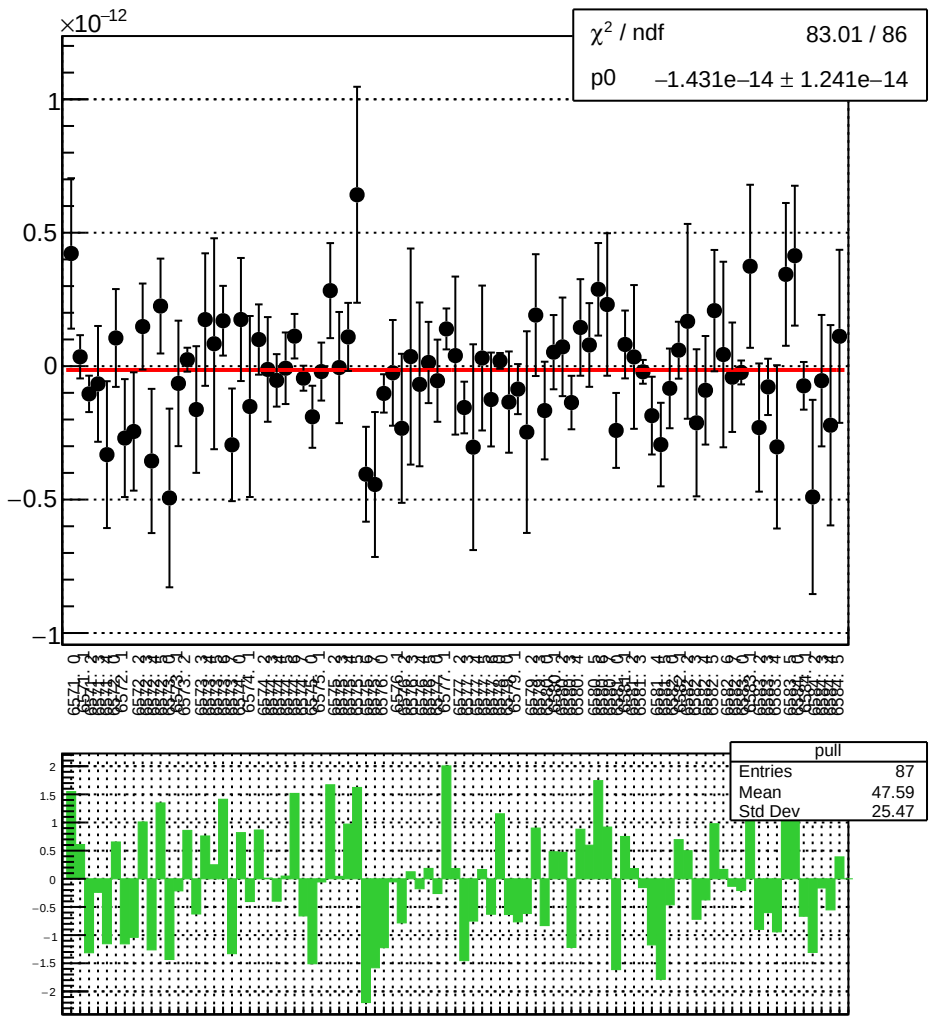

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.27 / 86
p0 0.01754 ± 0.07912
pull
Entries 87
Mean −32.67
Std Dev 0
pull1D
Entries 87
Mean −0.06799
Std Dev 1.016

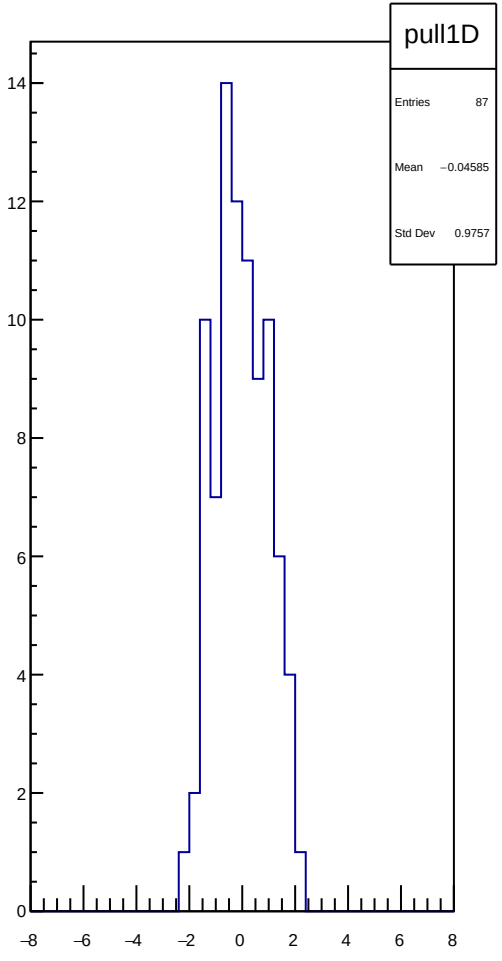

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.473e+05 / 86
p0 69.41 ± 0.05594
200
180
160
140
120
100
80
60
40

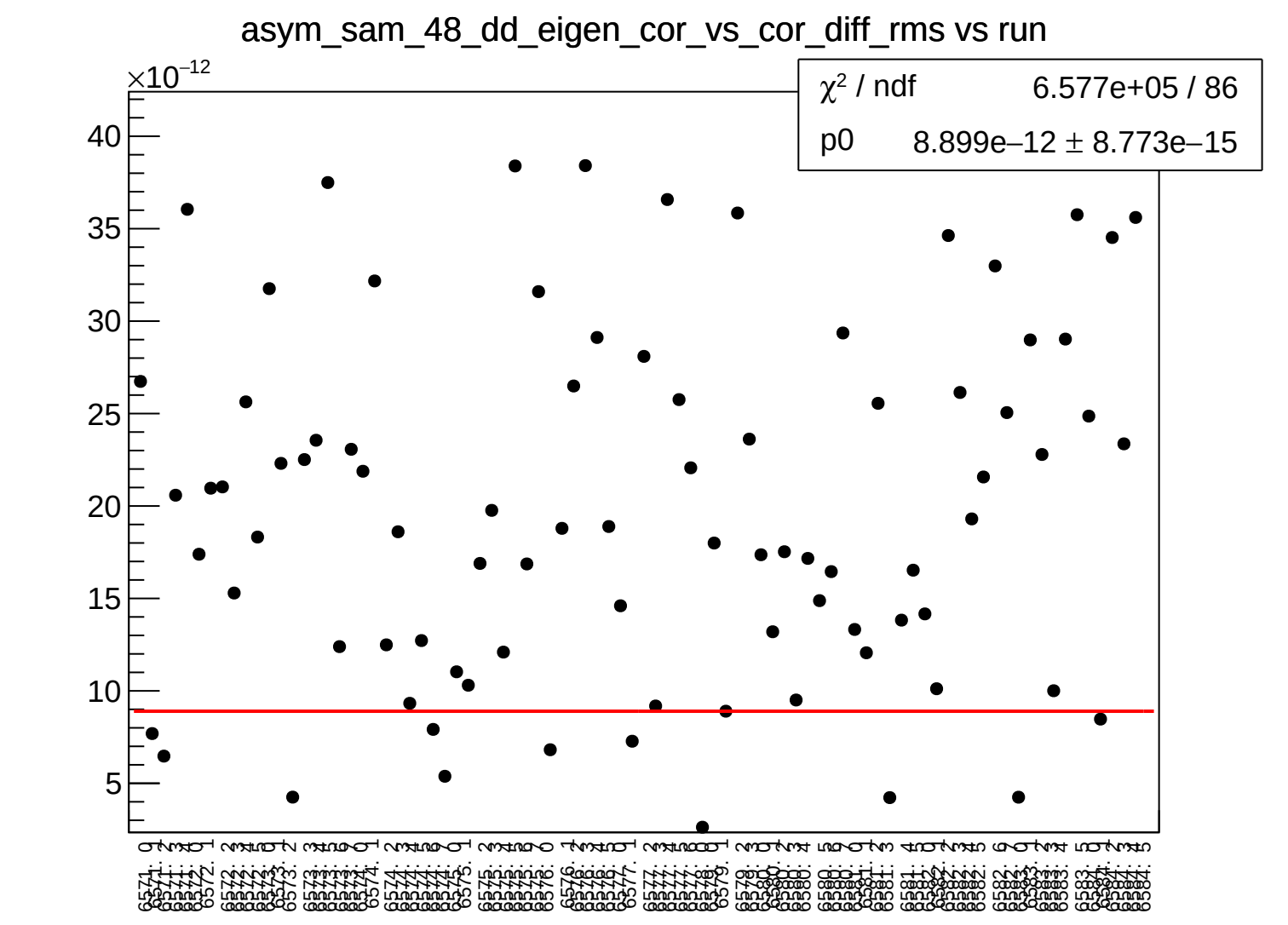

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.27 / 86
p0 0.01754 ± 0.07912
pull
Entries 87
Mean −32.67
Std Dev 0

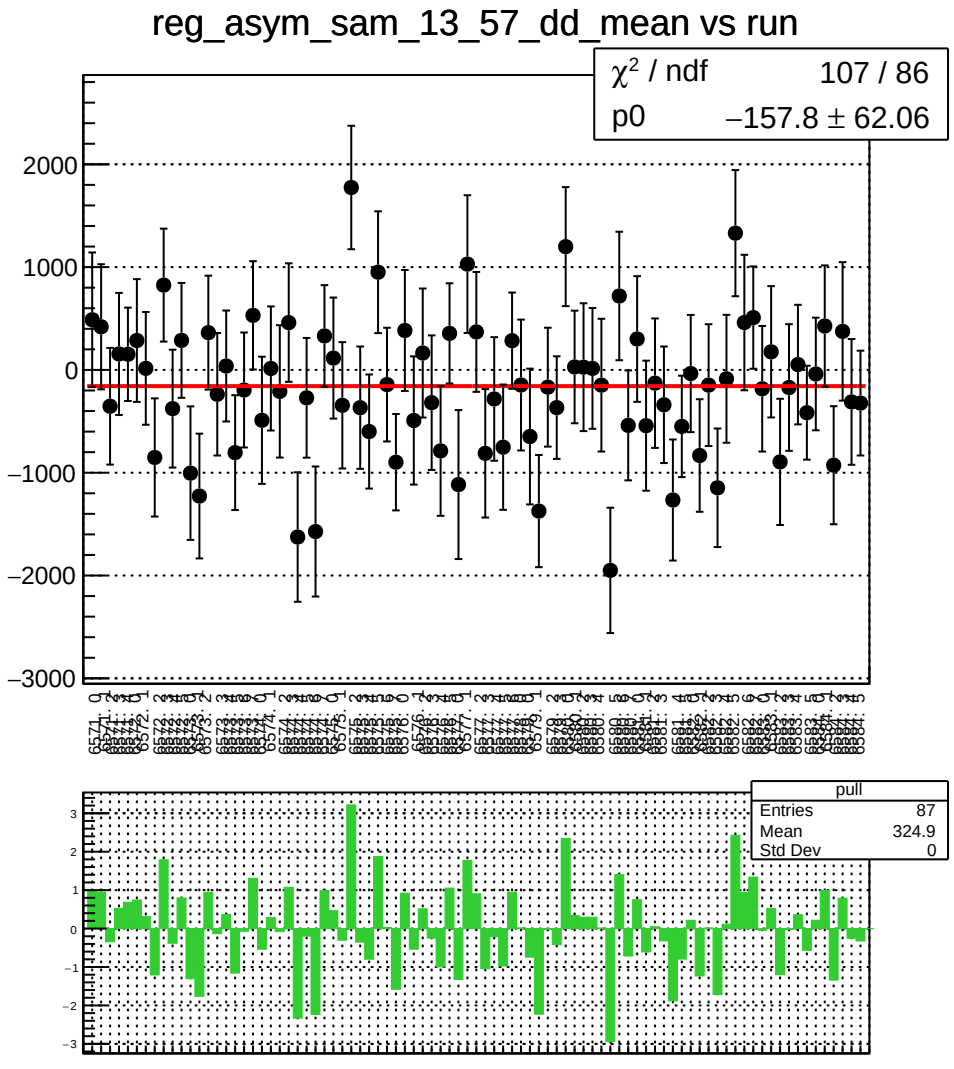

pull1D
Entries 87
Mean −0.06799
Std Dev 1.016

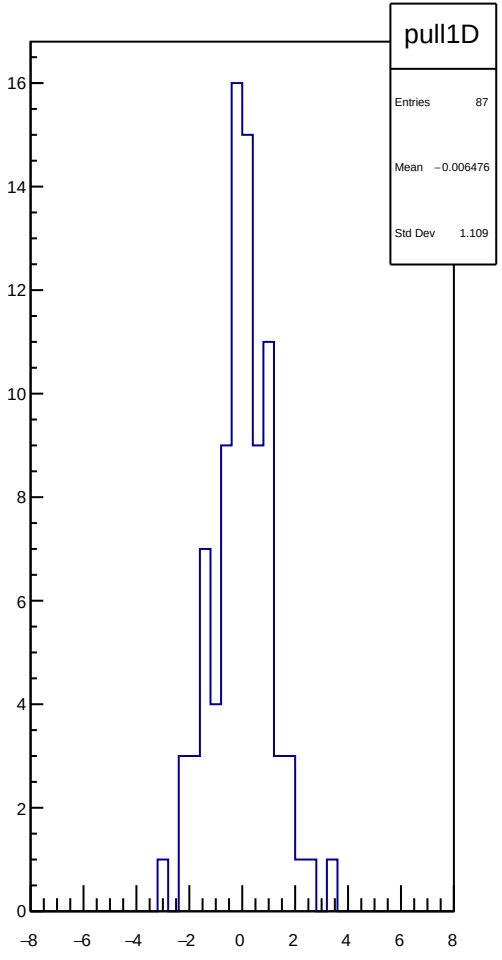

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.473e+05 / 86
p0 69.41 ± 0.05594
200
180
160
140
120
100
80
60
40

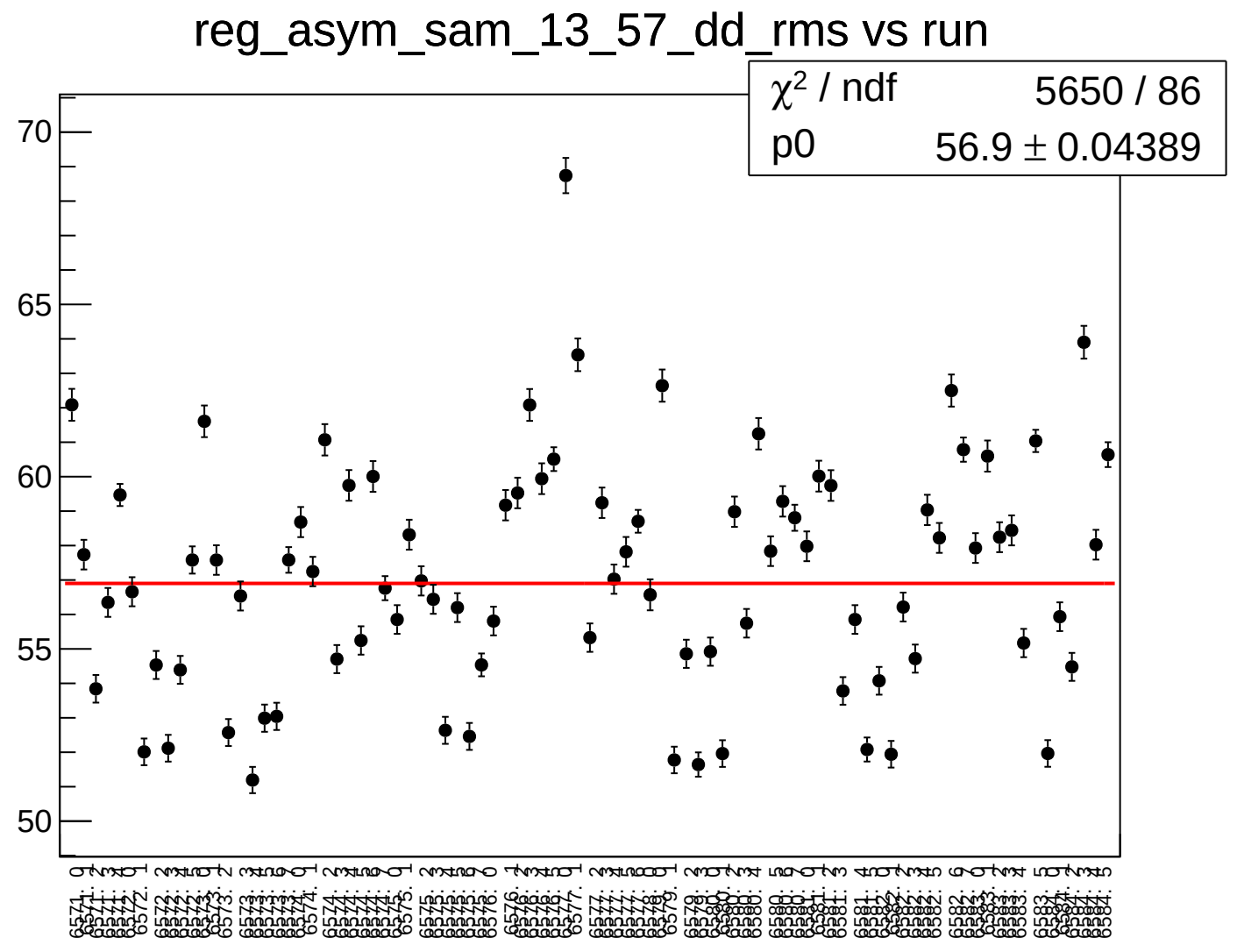

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.01 / 86
p0 −1.431e−14 ± 1.241e−14
pull
Entries 87
Mean 47.59
Std Dev 25.47

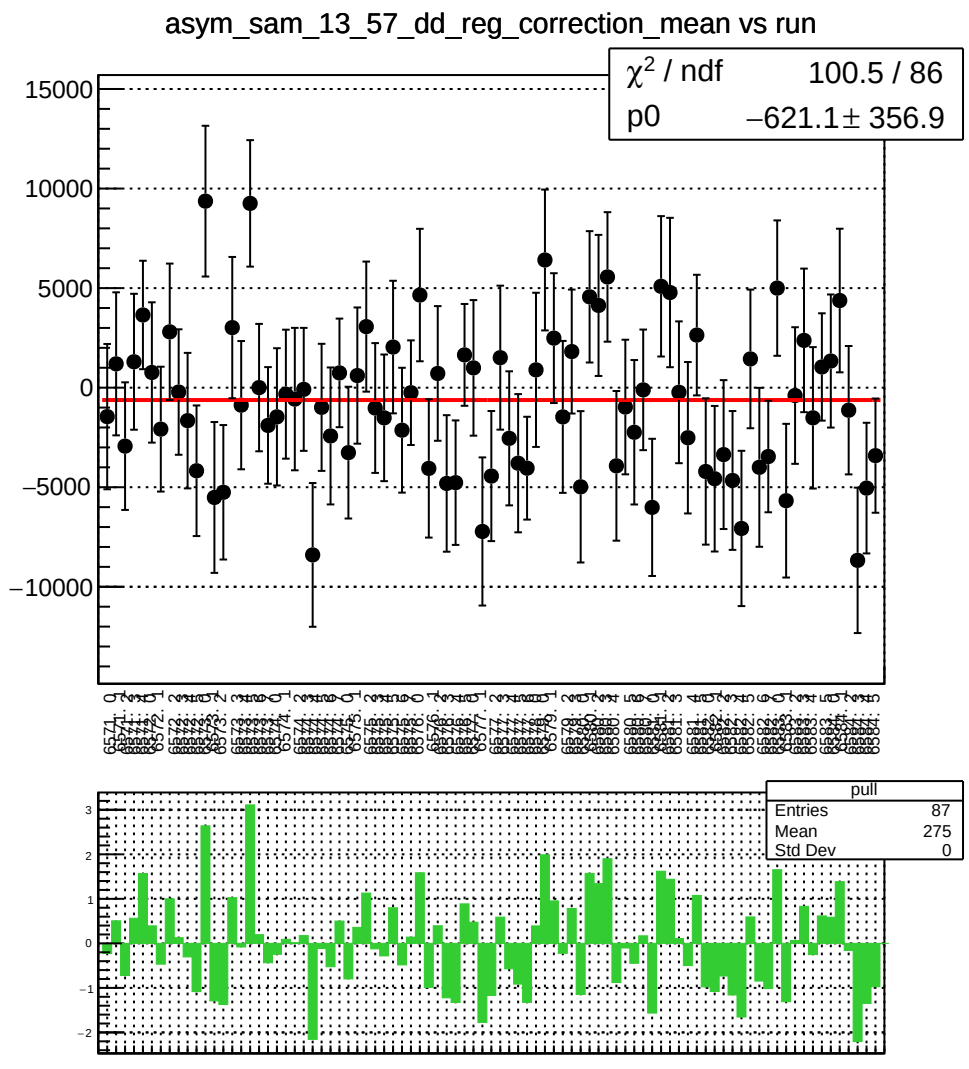

pull1D
Entries 87
Mean −0.04585
Std Dev 0.9757

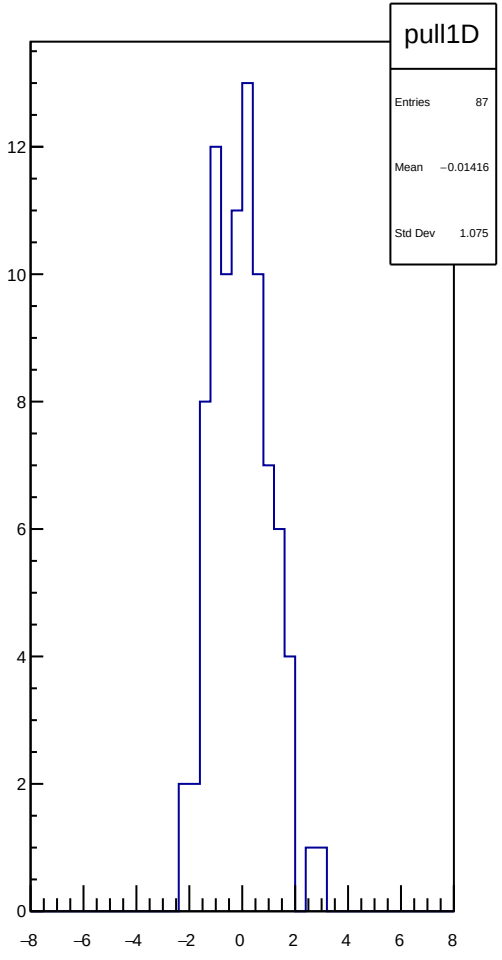

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.577e+05 / 86
p0 8.899e−12 ± 8.773e−15
40
35
30
25
20
15
10
5

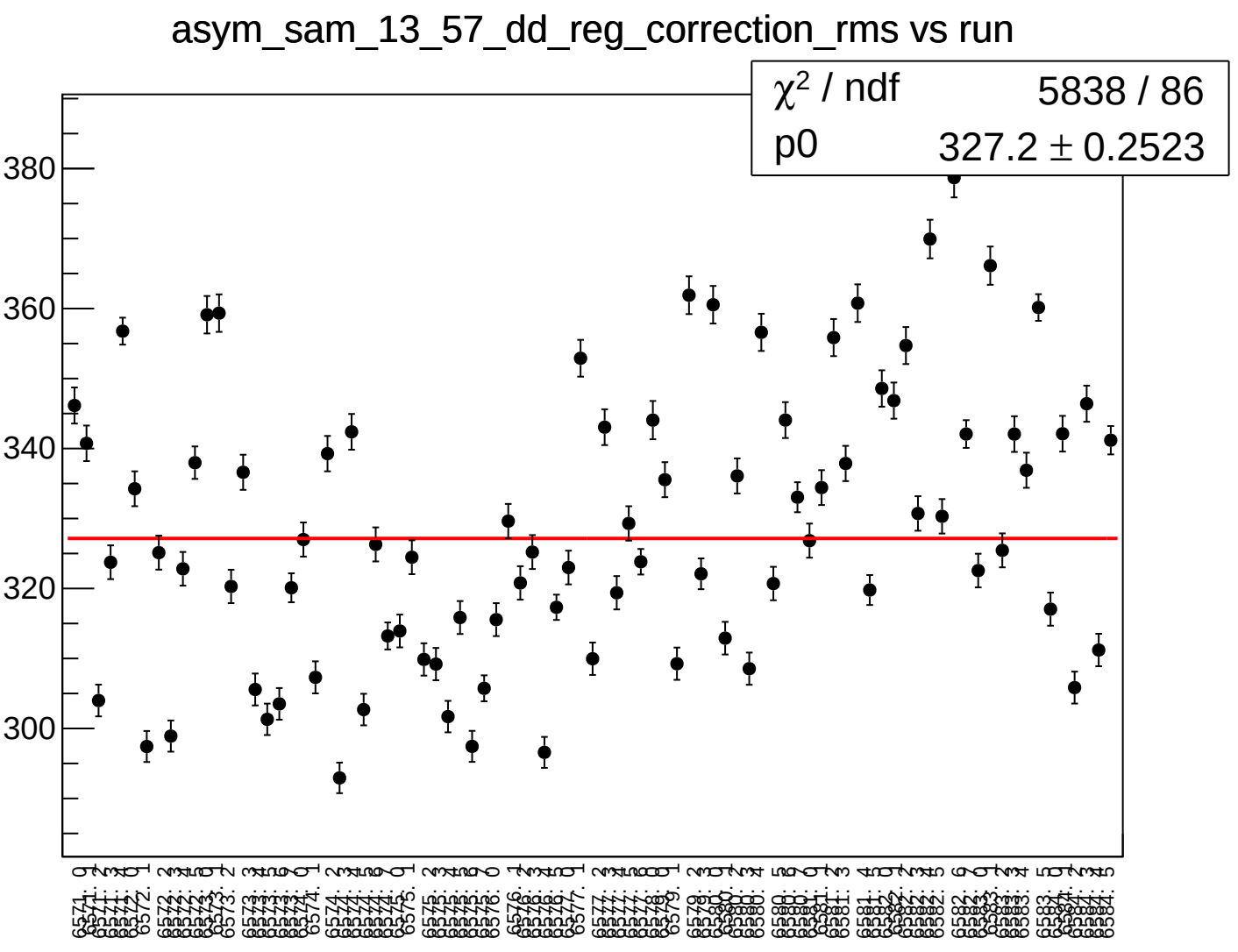

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 107 / 86
p0 −157.8 ± 62.06
pull
Entries 87
Mean 324.9
Std Dev 0

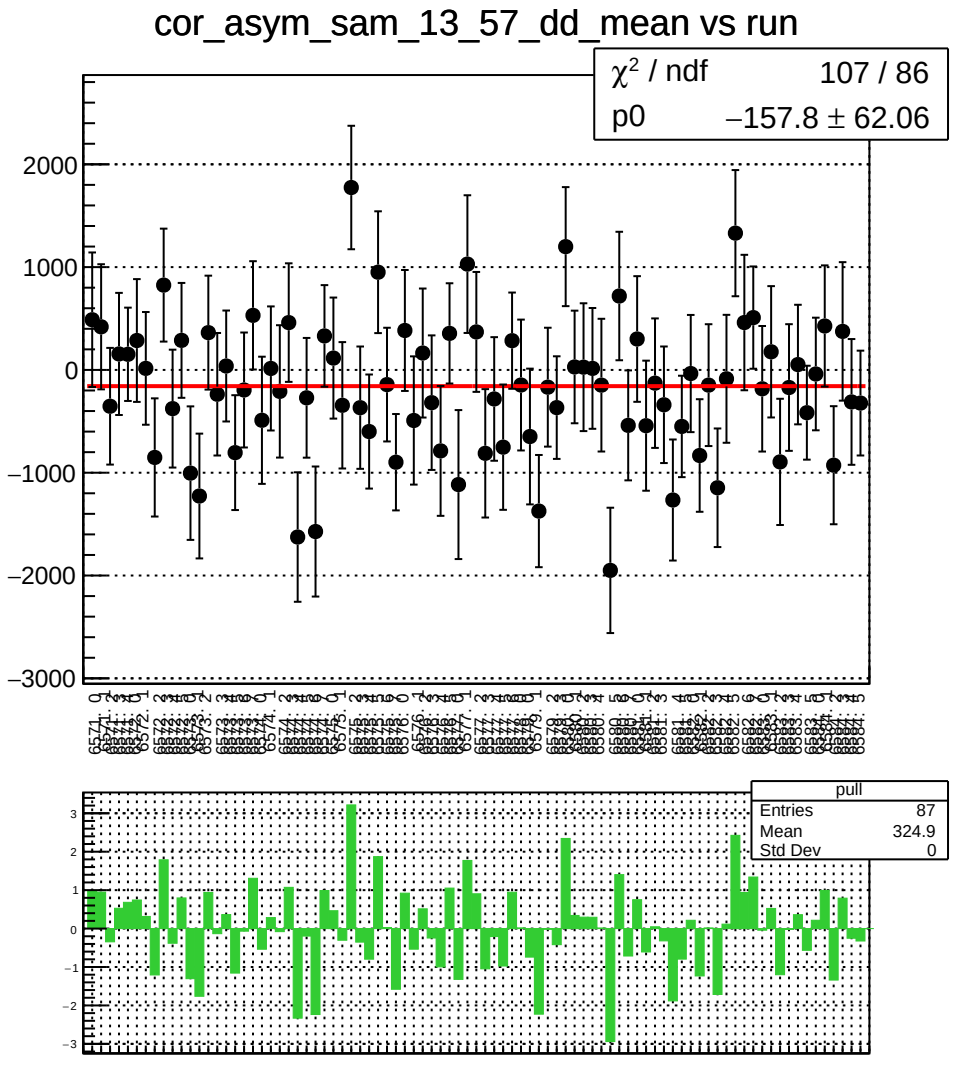

pull1D
Entries 87
Mean −0.006476
Std Dev 1.109

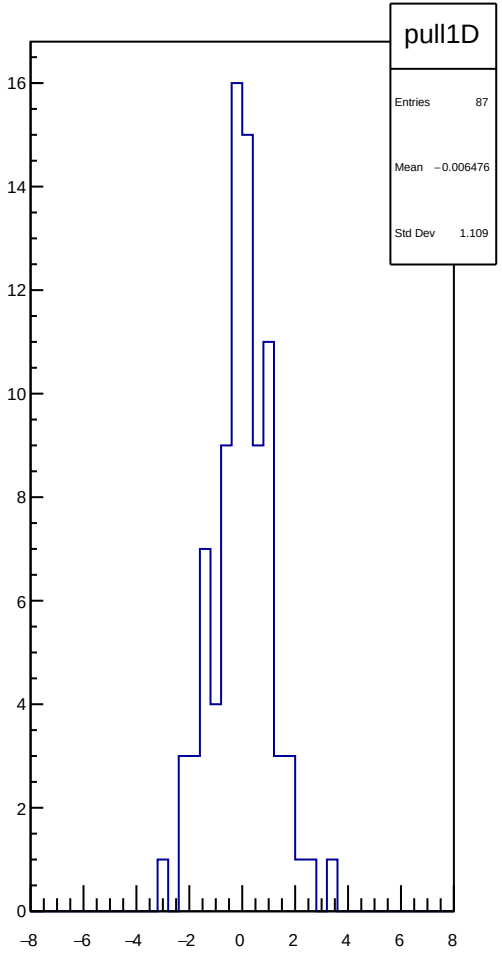

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 5650 / 86
p0 56.9 ± 0.04389
70
65
60
55
50

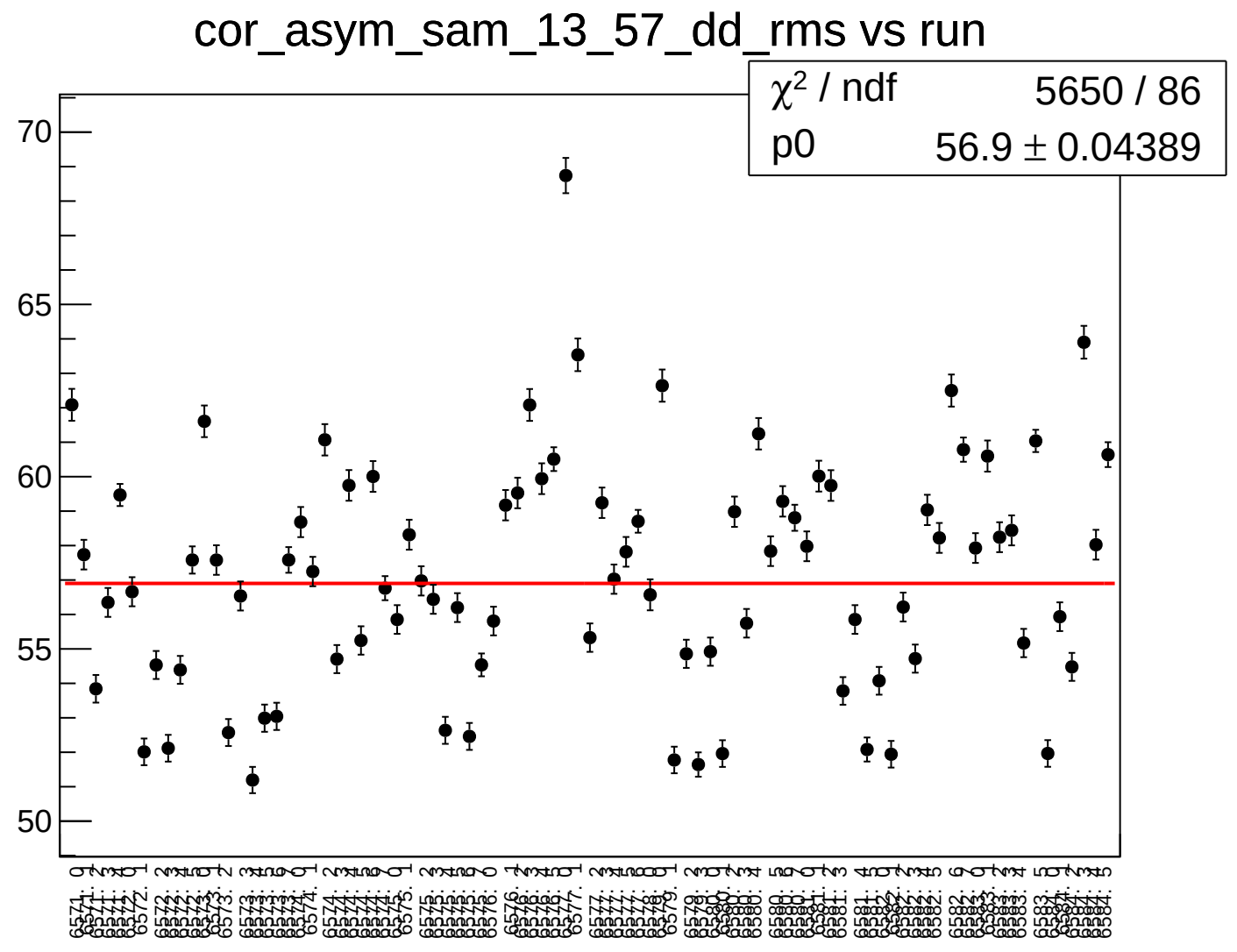

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 100.5 / 86
p0 −621.1± 356.9
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 275
Std Dev 0
3
2
1
0
−1
−2

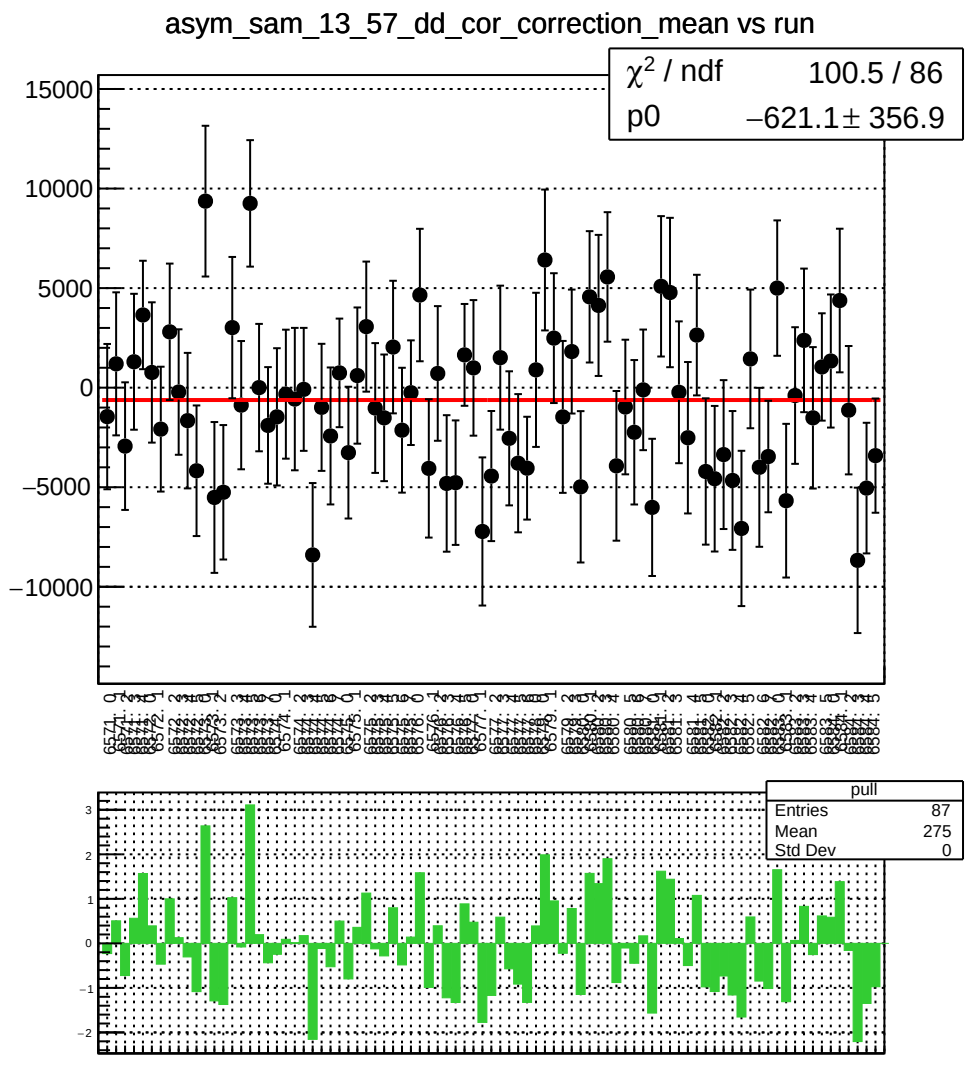

pull1D
Entries 87
Mean −0.01416
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

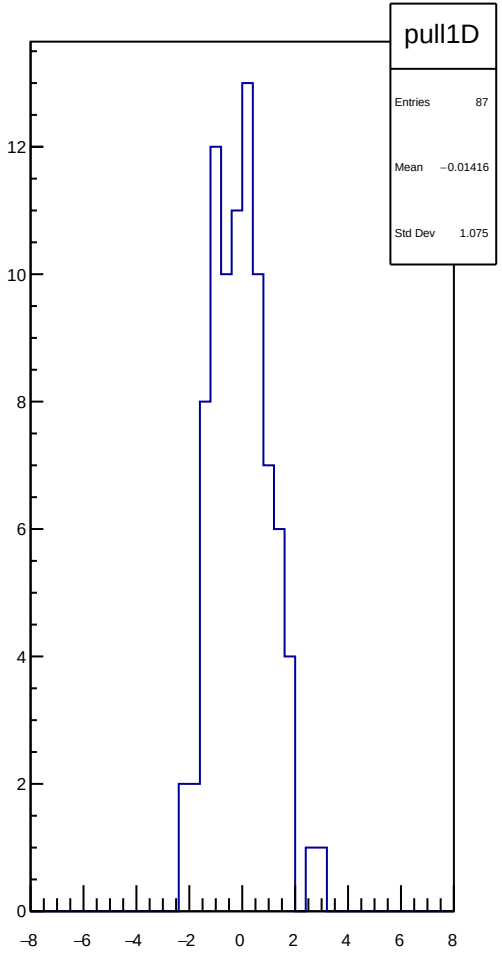

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 5838 / 86
p0 327.2 ± 0.2523
380
360
340
320
300

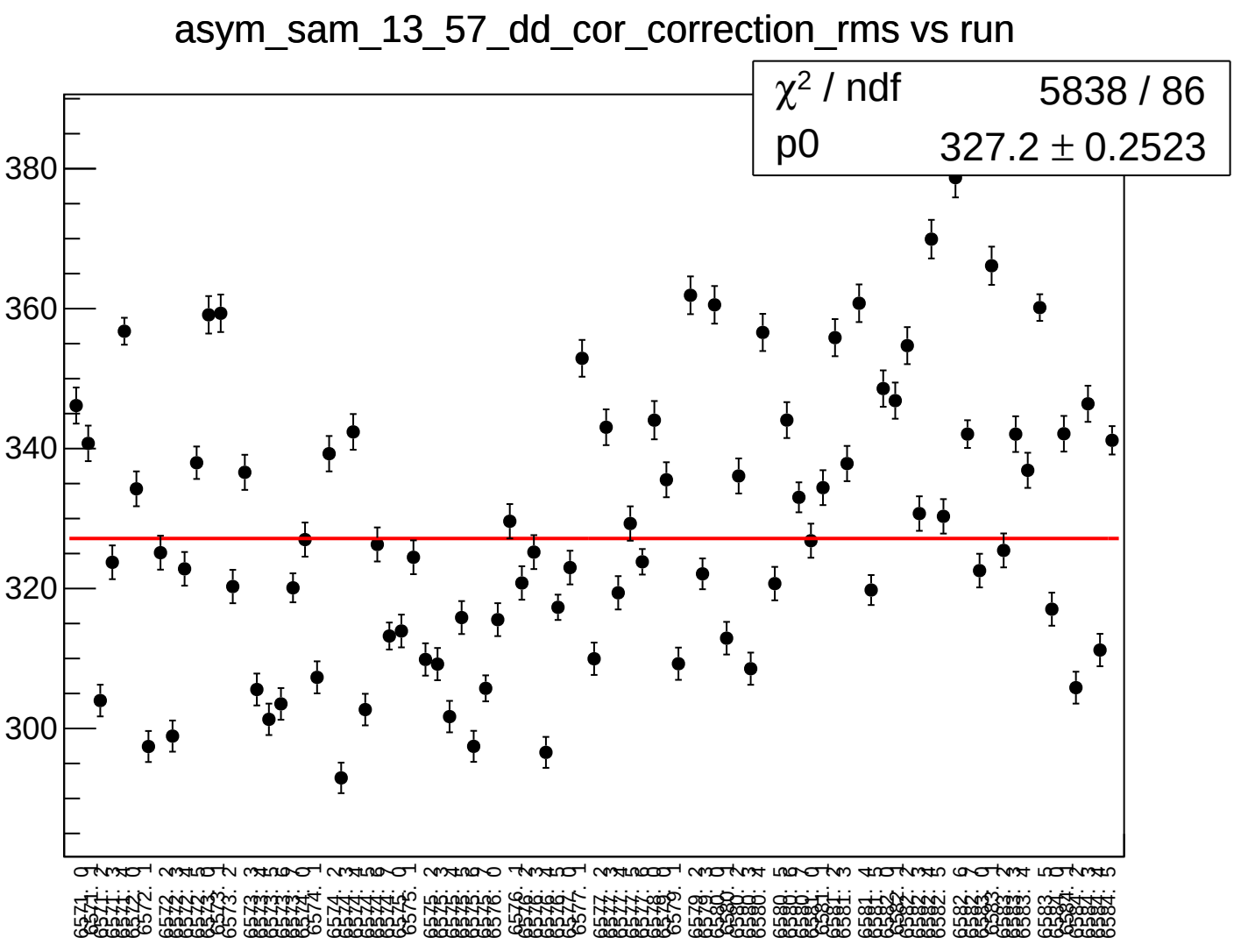

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 107 / 86
p0 −157.8 ± 62.06
pull
Entries 87
Mean 324.9
Std Dev 0

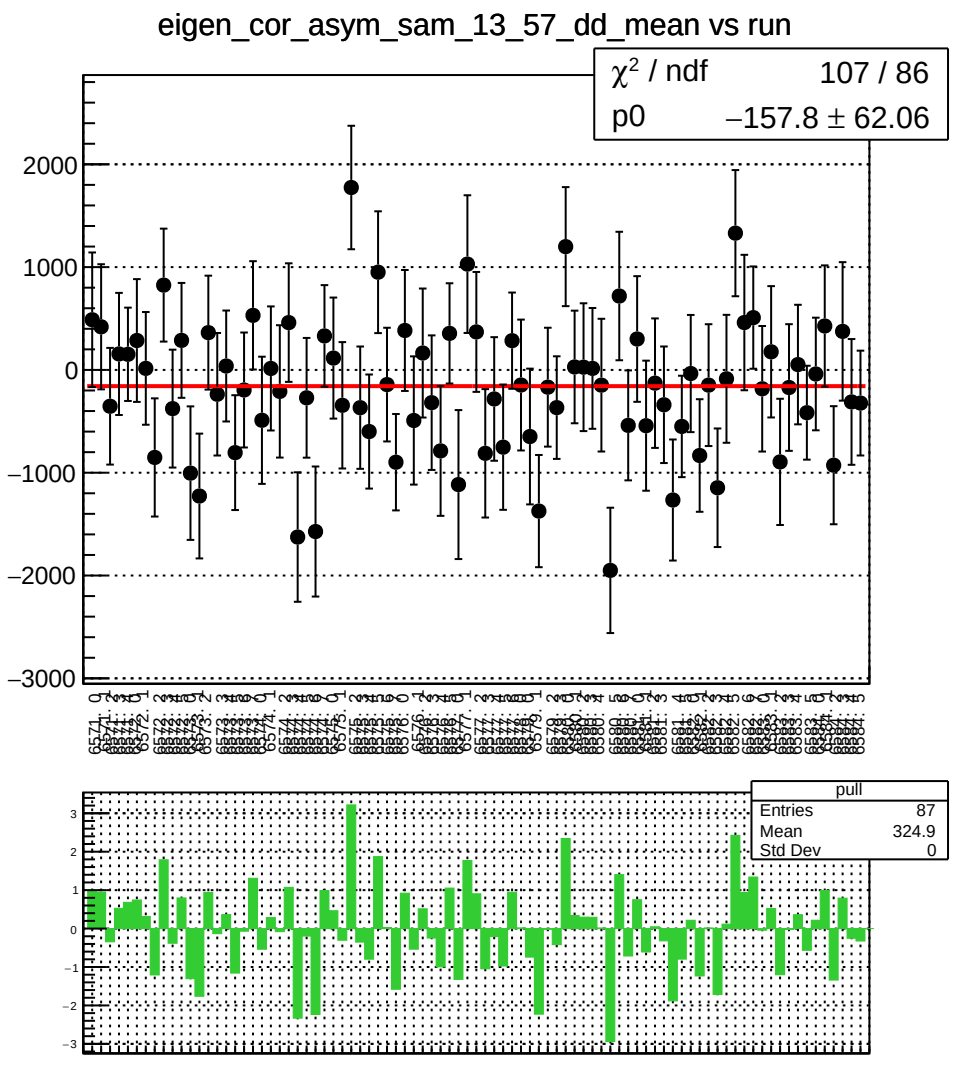

pull1D
Entries 87
Mean −0.006476
Std Dev 1.109

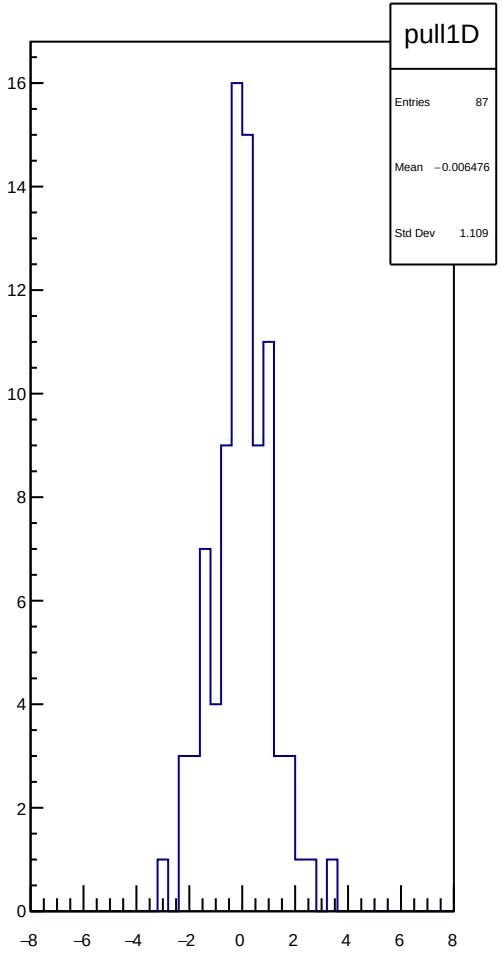

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 5650 / 86
p0 56.9 ± 0.04389
70
65
60
55
50

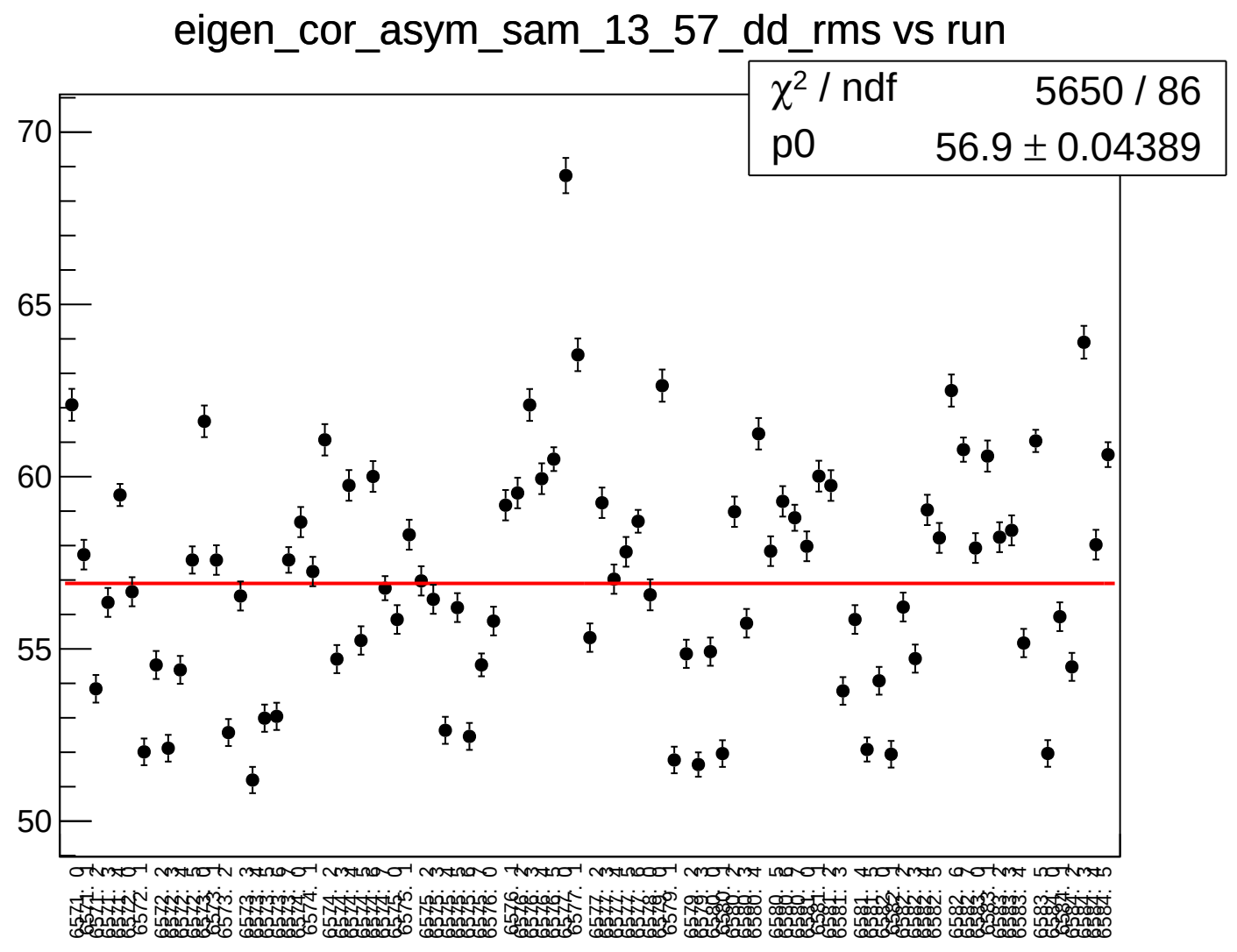

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 100.5 / 86
p0 −621.1± 356.9
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 275
Std Dev 0
3
2
1
0
−1
−2

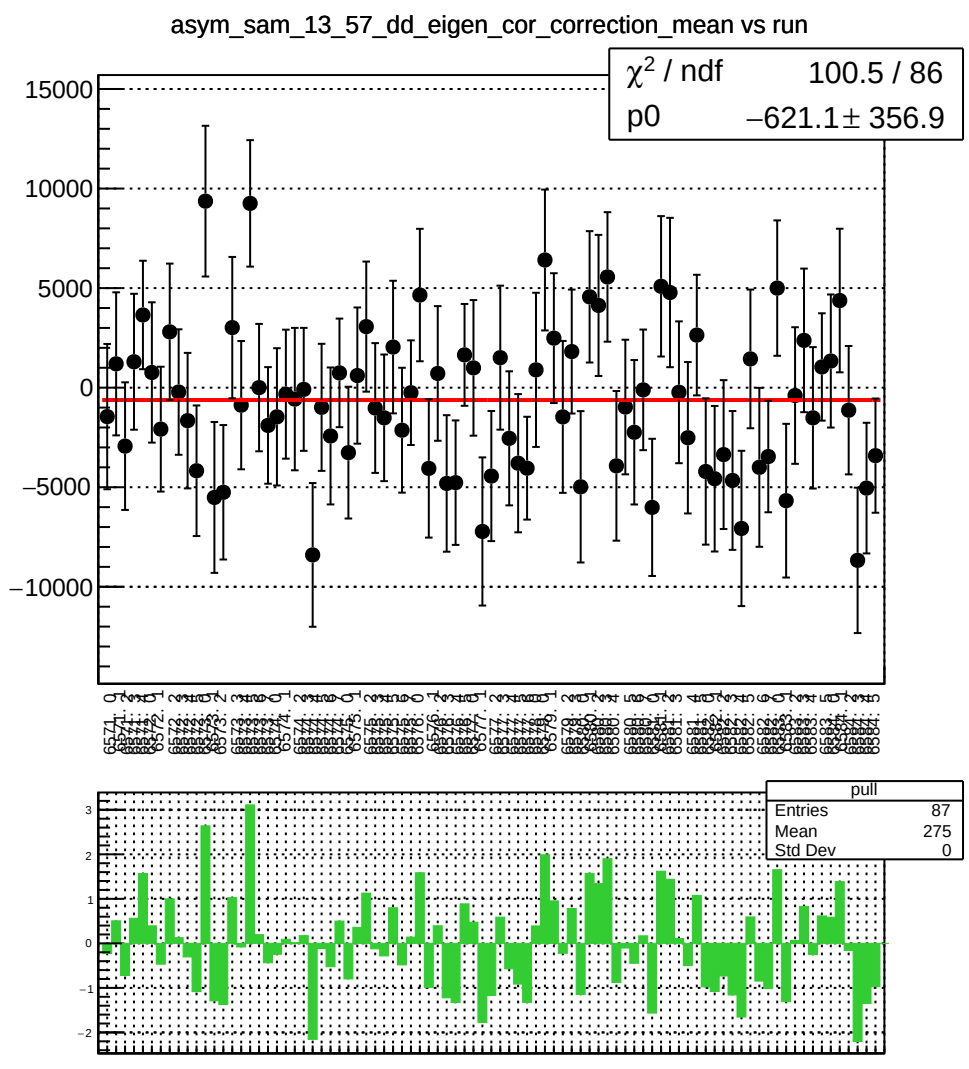

pull1D
Entries 87
Mean −0.01416
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

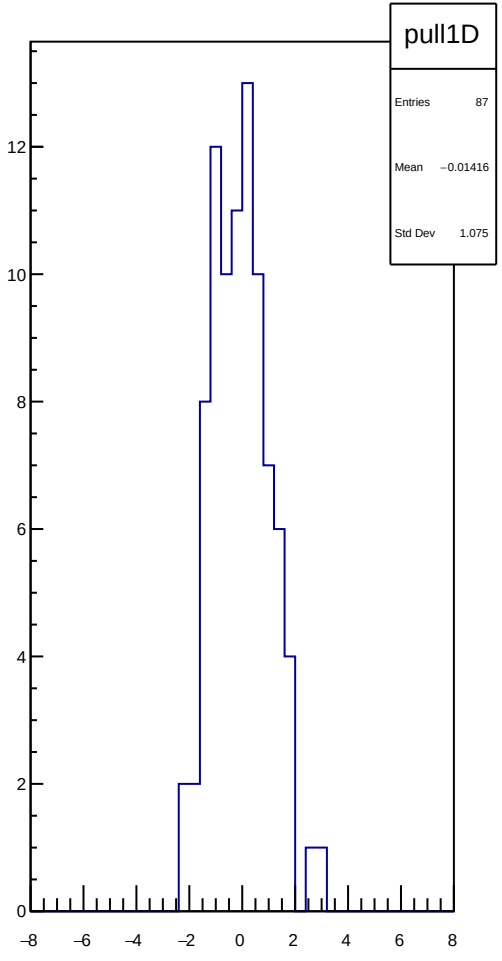

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 5838 / 86
p0 327.2 ± 0.2523
380
360
340
320
300

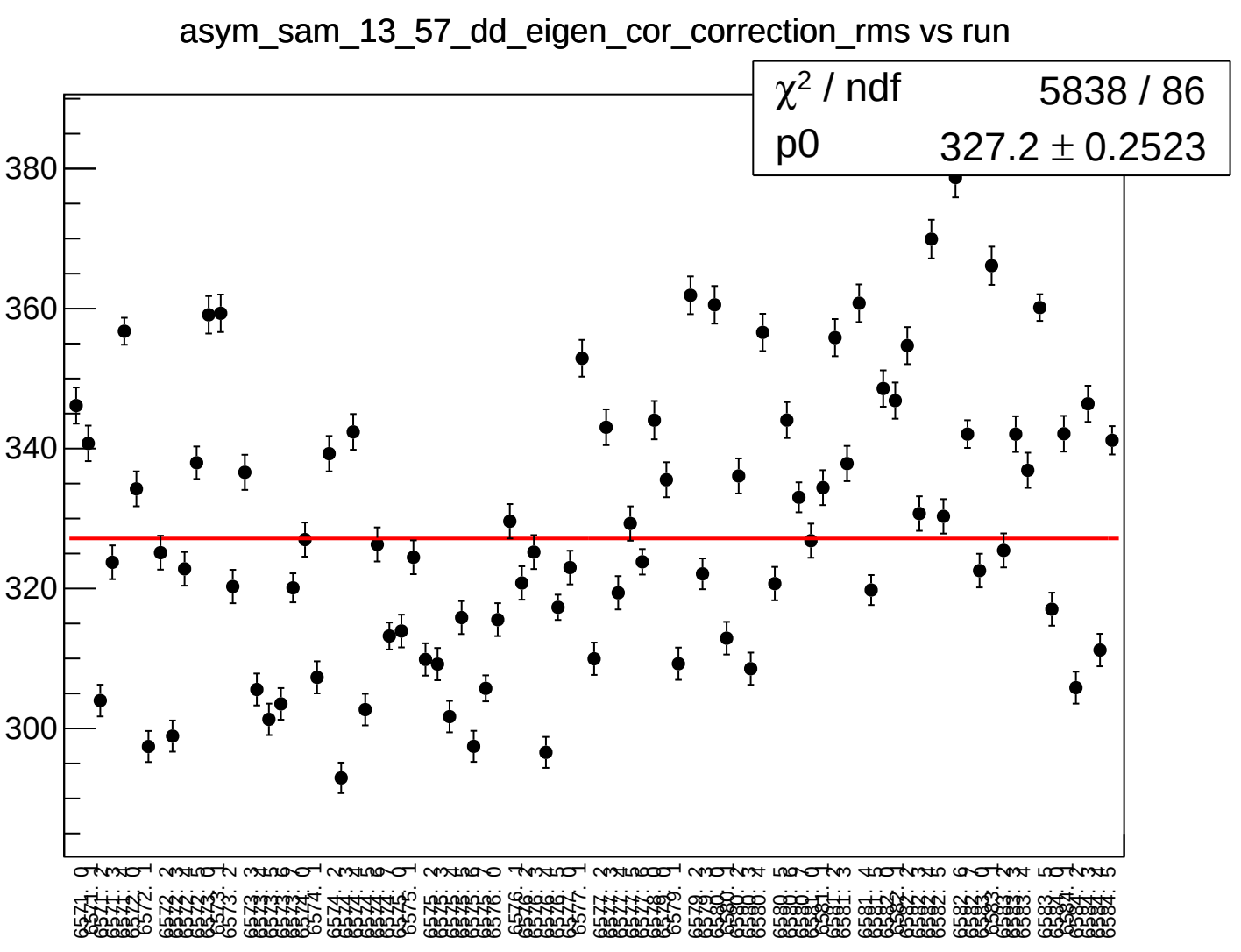

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 107 / 86
p0 −157.8 ± 62.06
pull
Entries 87
Mean 324.9
Std Dev 0

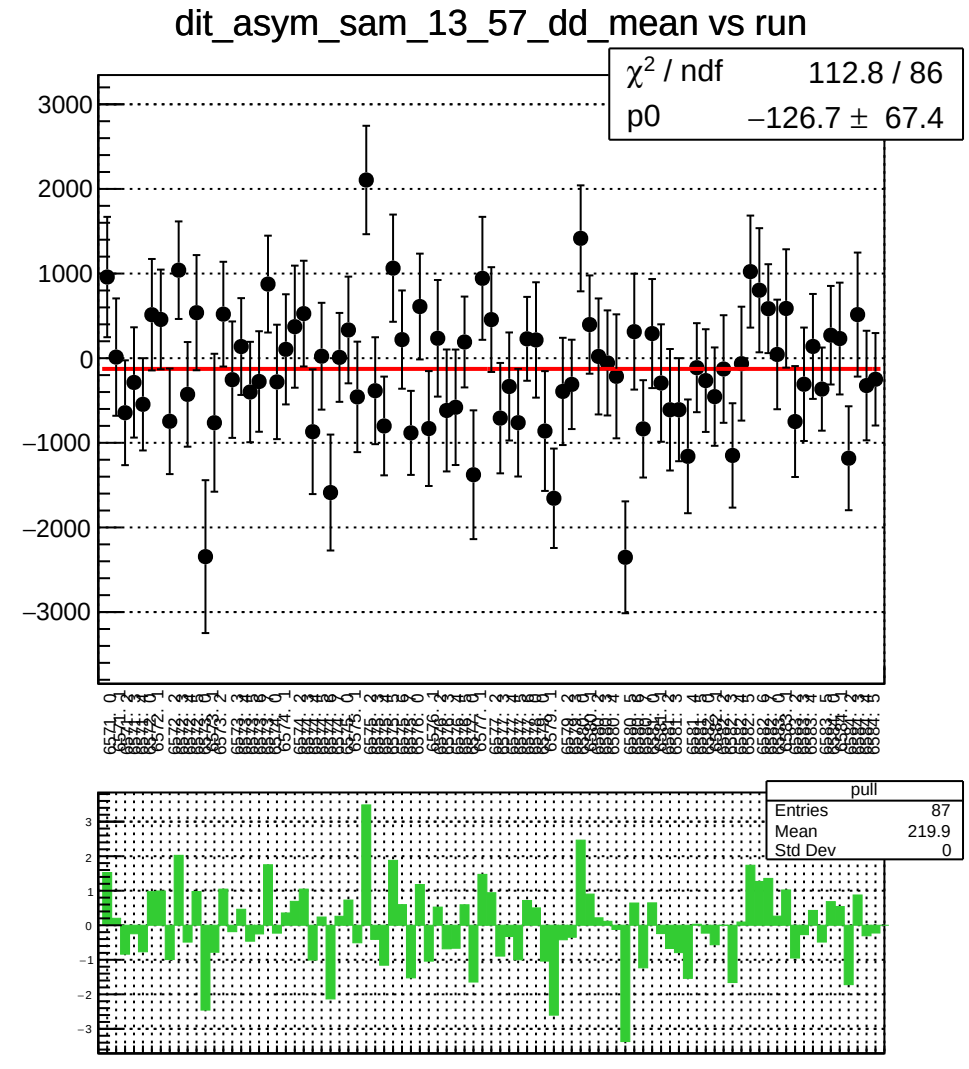

pull1D
Entries 87
Mean −0.006476
Std Dev 1.109

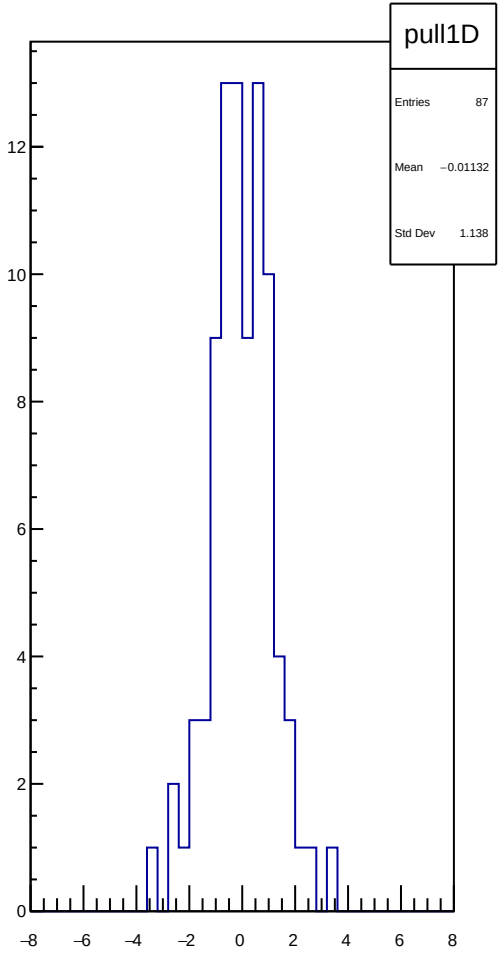

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 5650 / 86
p0 56.9 ± 0.04389
70
65
60
55
50

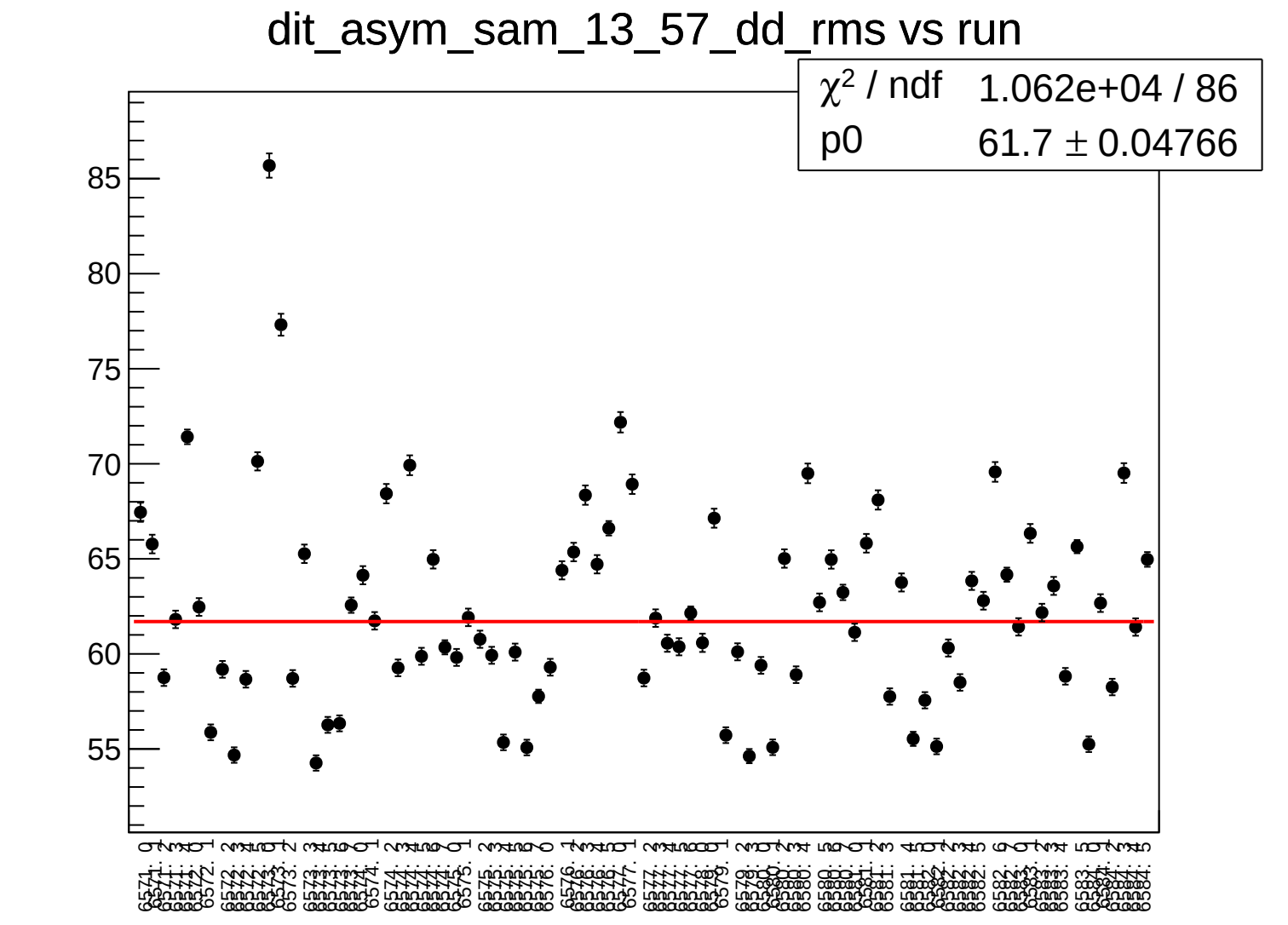

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.5 / 86
p0 −621.1± 356.9
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 275
Std Dev 0
3
2
1
0
−1
−2

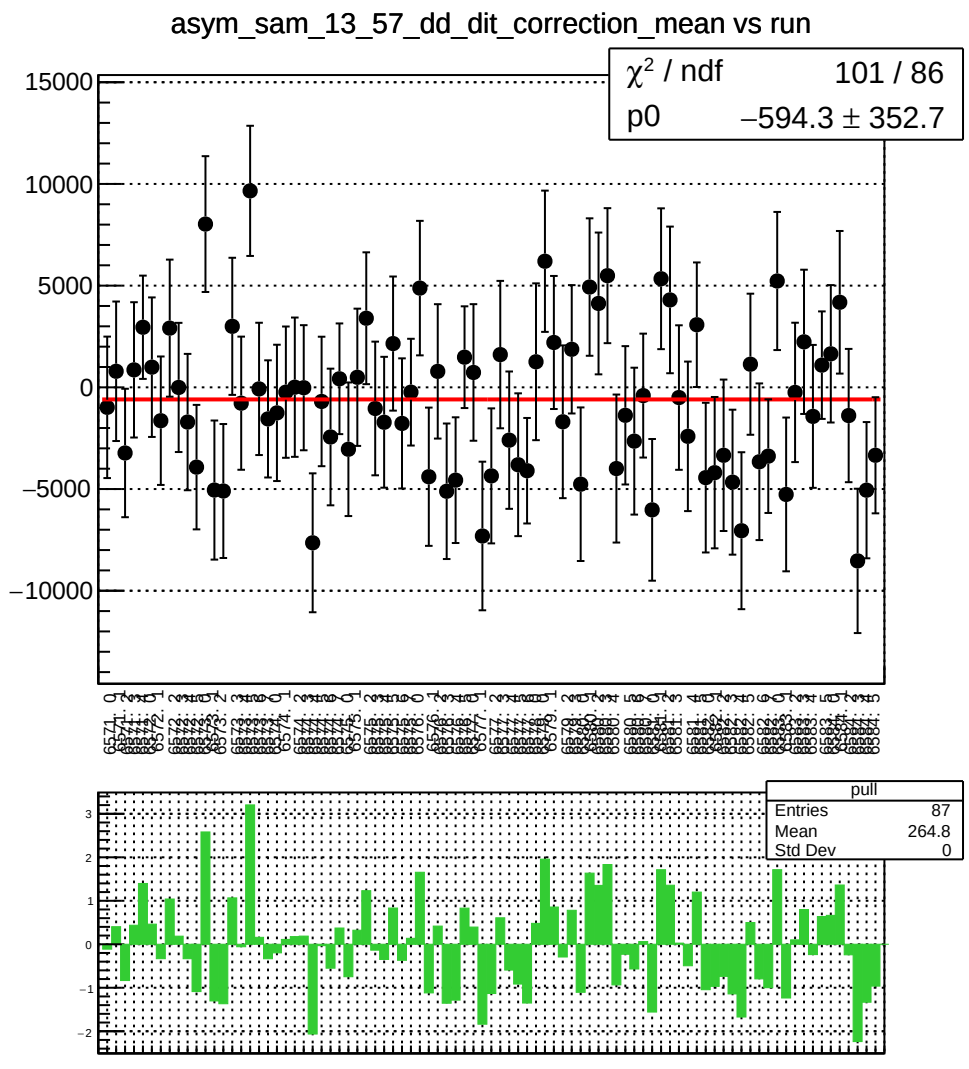

pull1D
Entries 87
Mean −0.01416
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

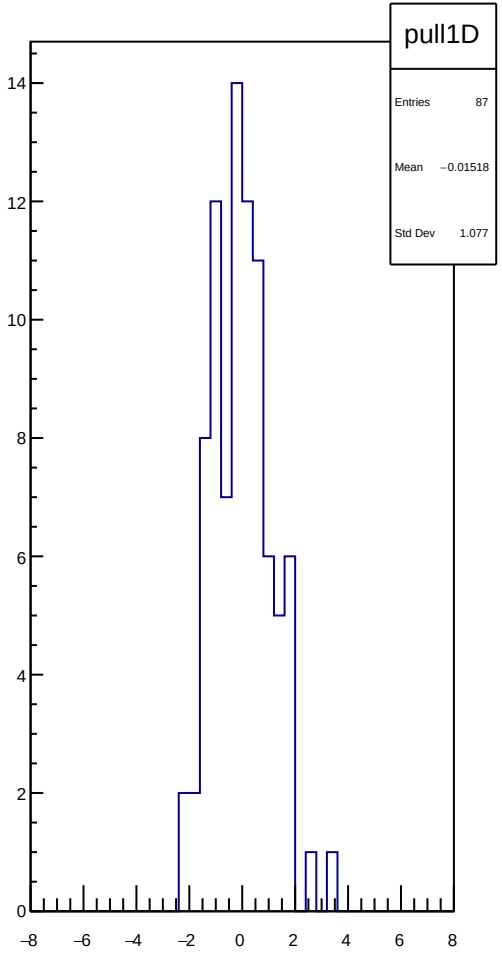

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 5838 / 86
p0 327.2 ± 0.2523
380
360
340
320
300

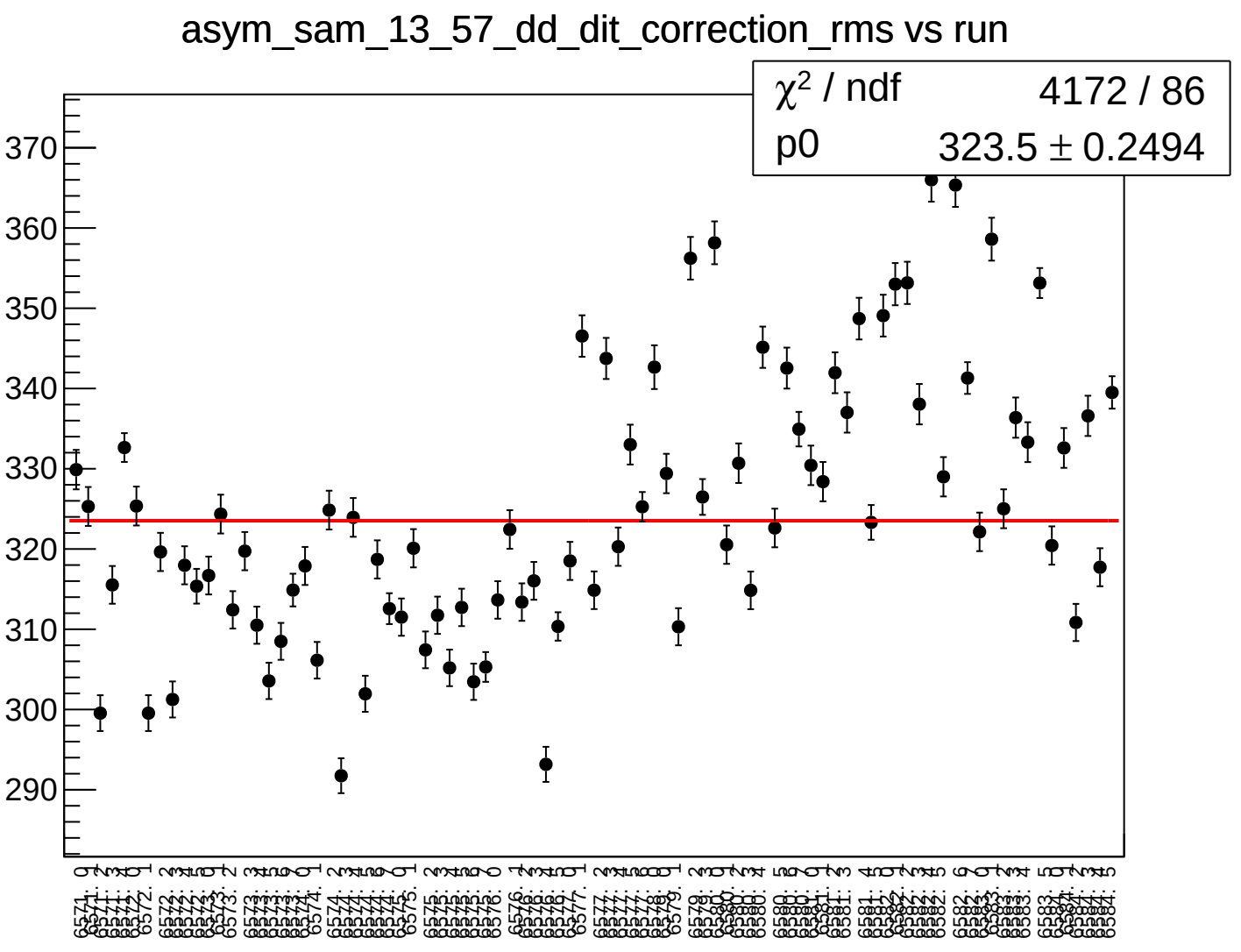

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 112.8 / 86
p0 −126.7 ± 67.4
pull
Entries 87
Mean 219.9
Std Dev 0

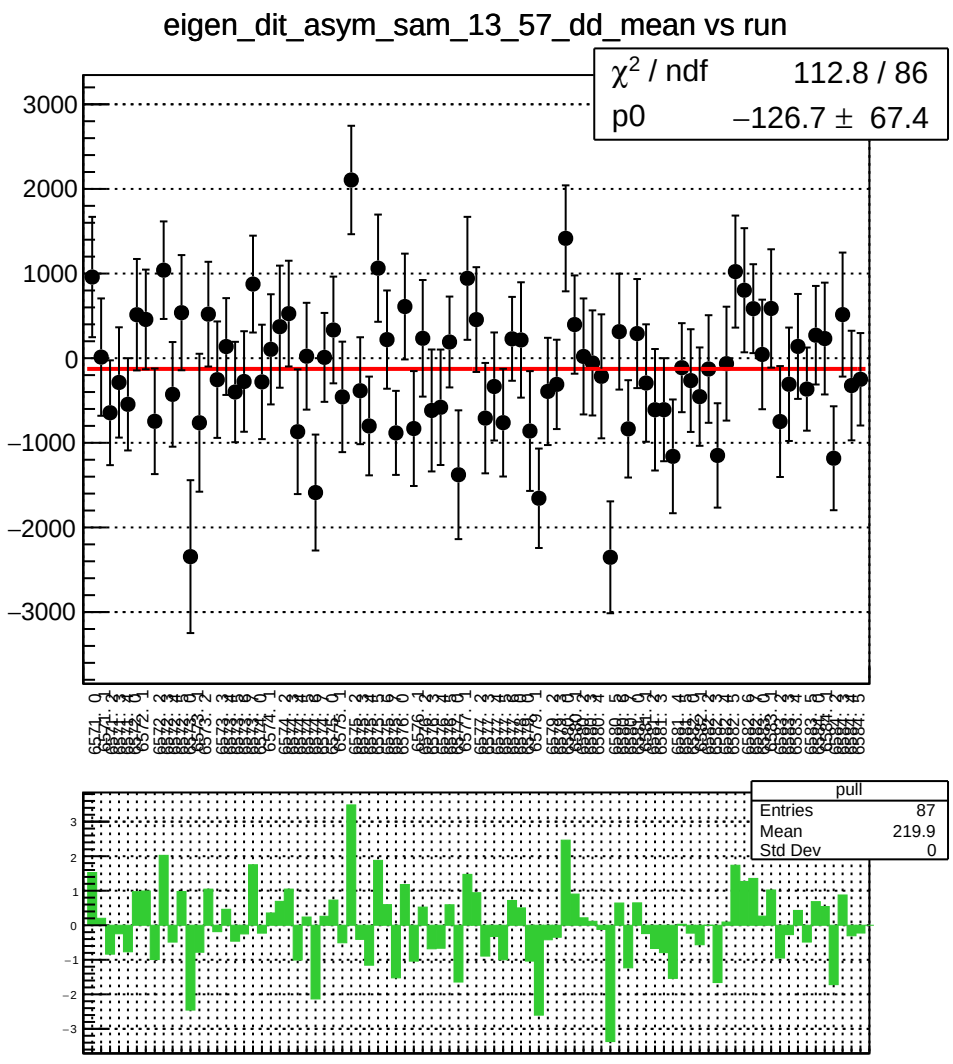

pull1D
Entries 87
Mean −0.01132
Std Dev 1.138

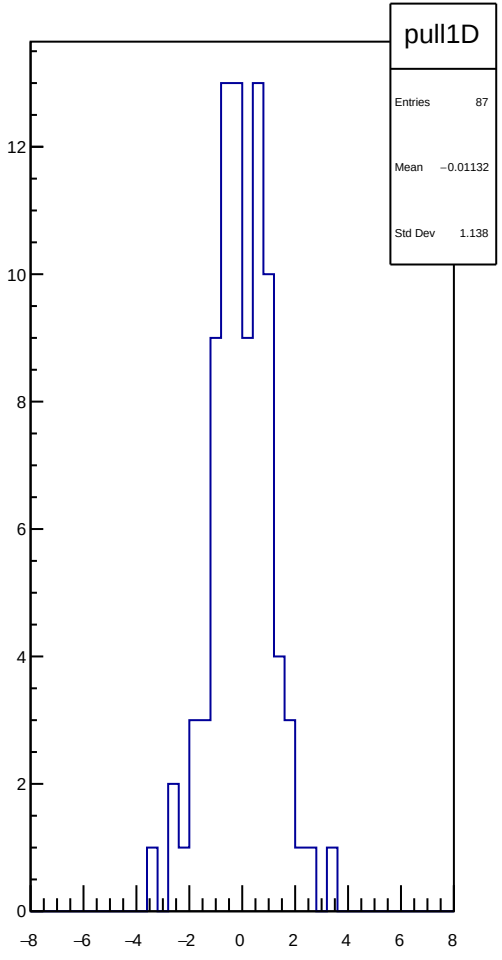

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.062e+04 / 86
p0 61.7 ± 0.04766
85
80
75
70
65
60
55


asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 101 / 86
p0 −594.3 ± 352.7
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 264.8
Std Dev 0
3
2
1
0
−1
−2

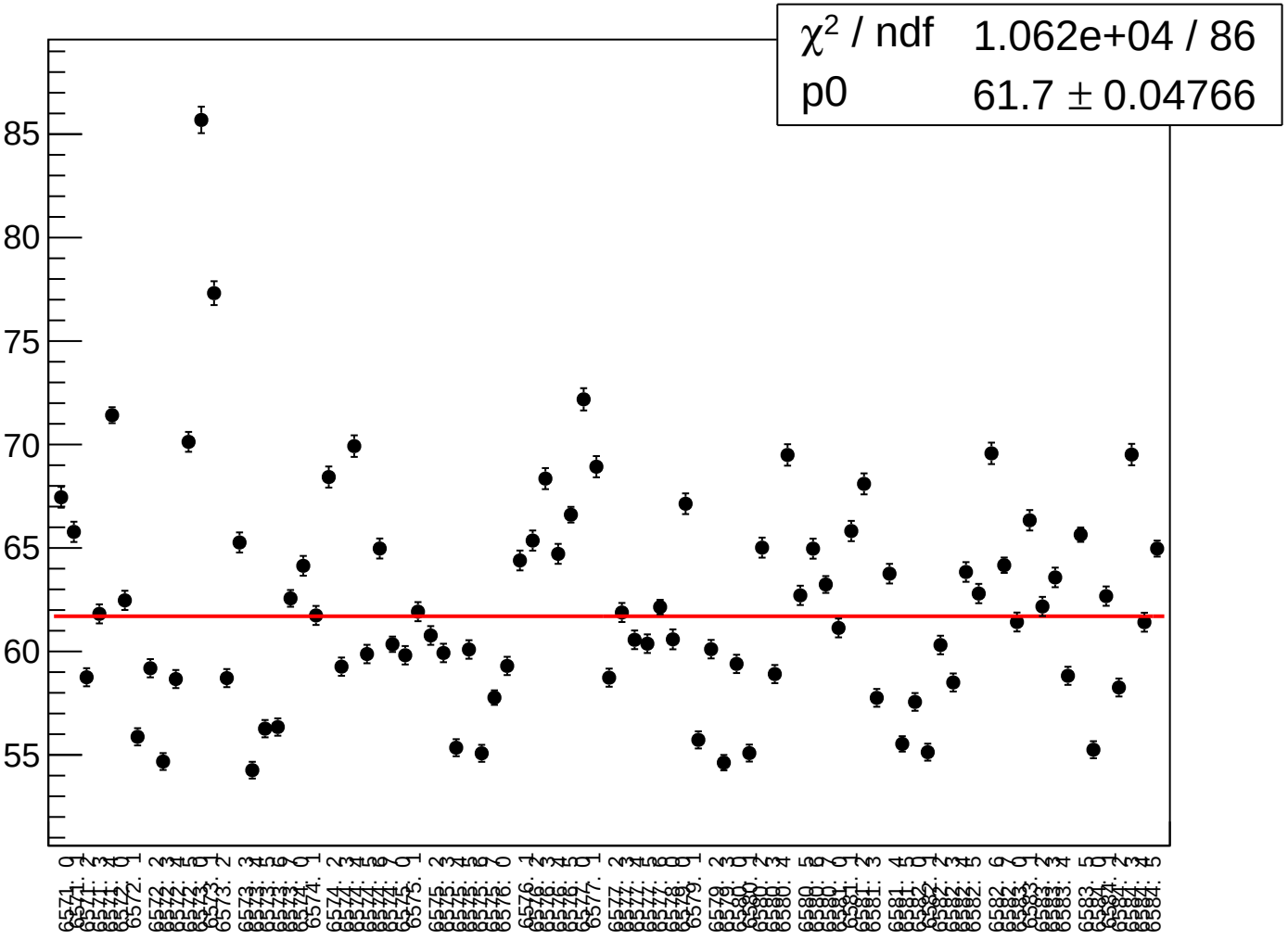

pull1D
Entries 87
Mean −0.01518
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

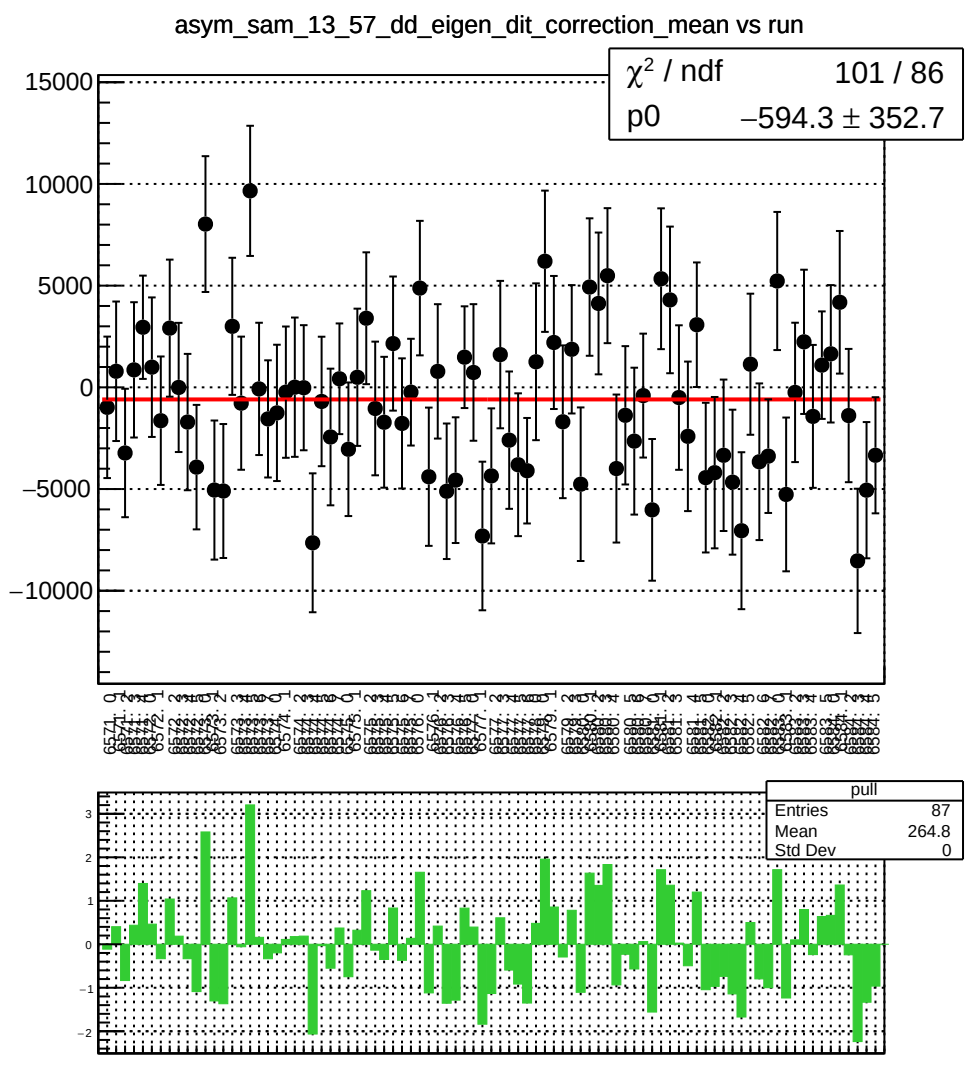

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 4172 / 86
p0 323.5 ± 0.2494
370
360
350
340
330
320
310
300
290

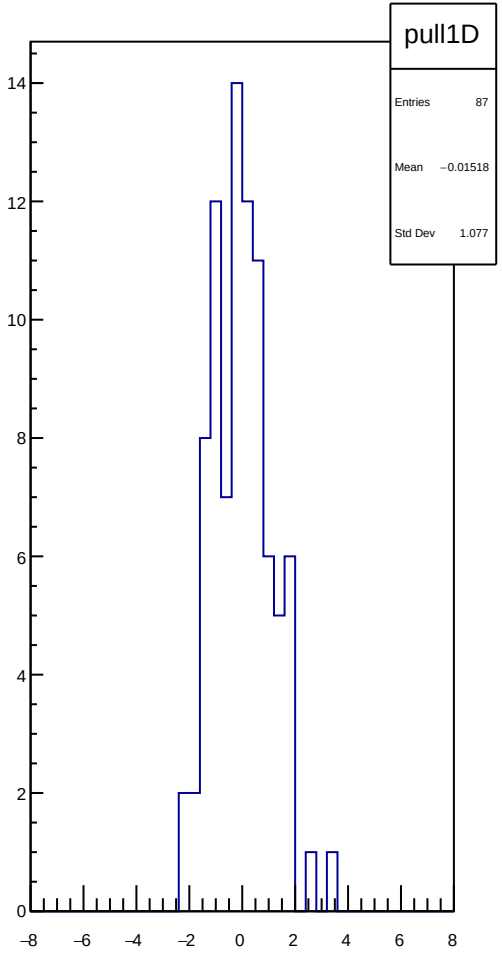

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 112.8 / 86
p0 −126.7 ± 67.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 219.9
Std Dev 0
3
2
1
0
−1
−2
−3

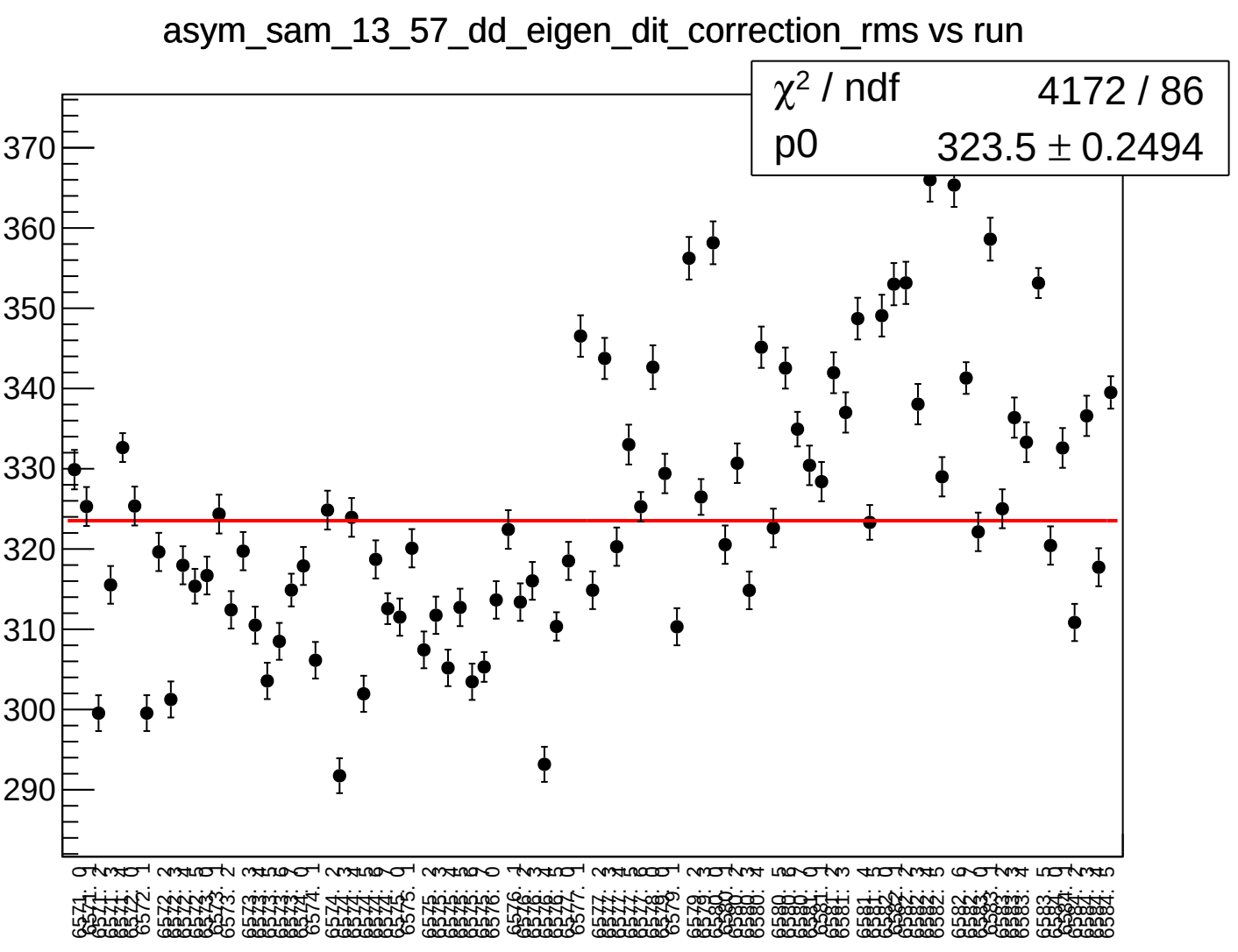

pull1D
Entries 87
Mean −0.01132
Std Dev 1.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

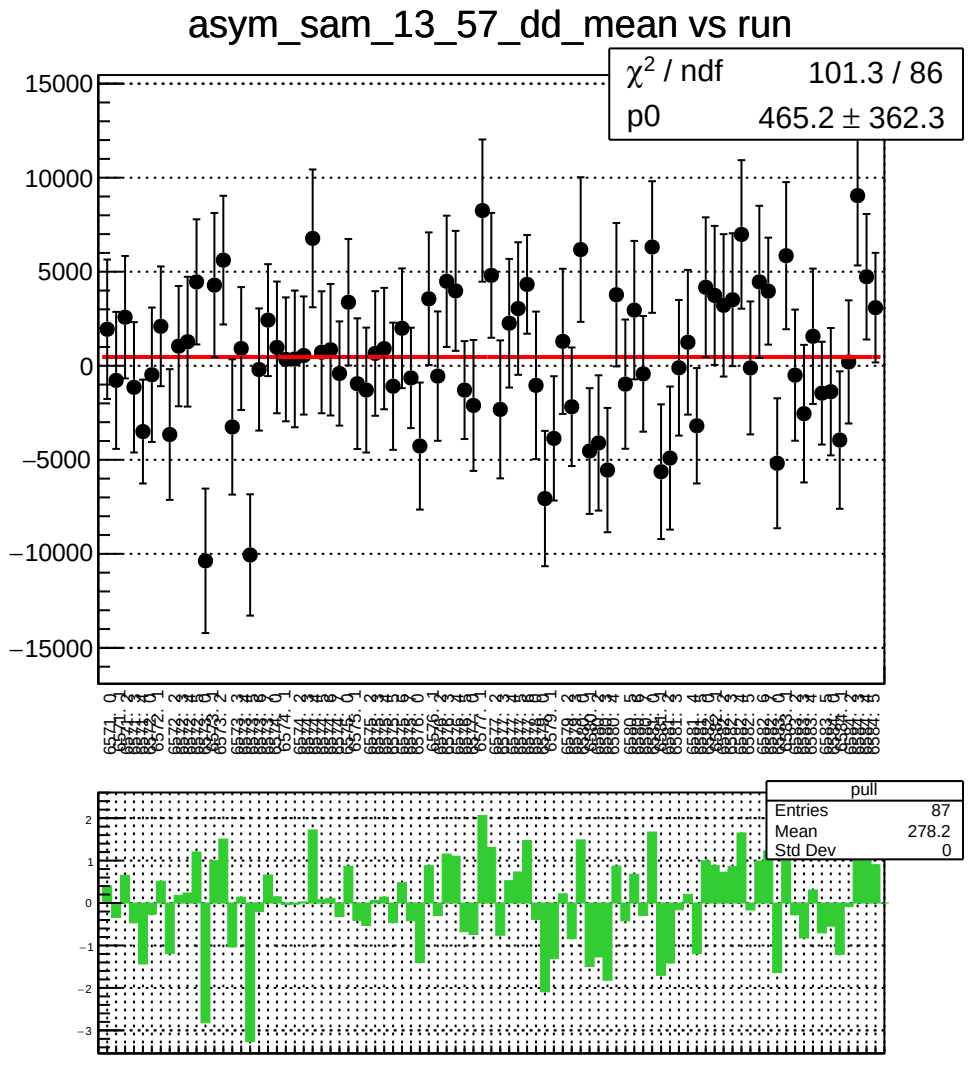
eigen_dit_asym_sam_13_57_dd_rms vs run

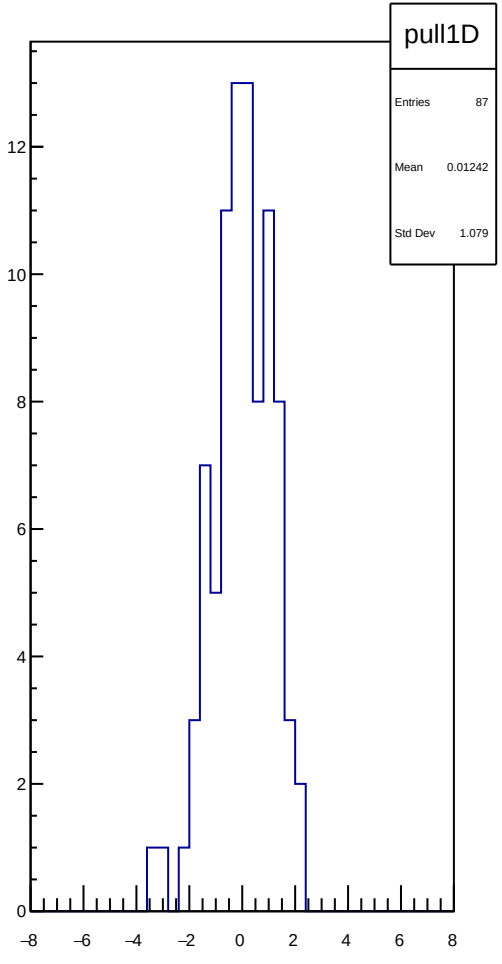


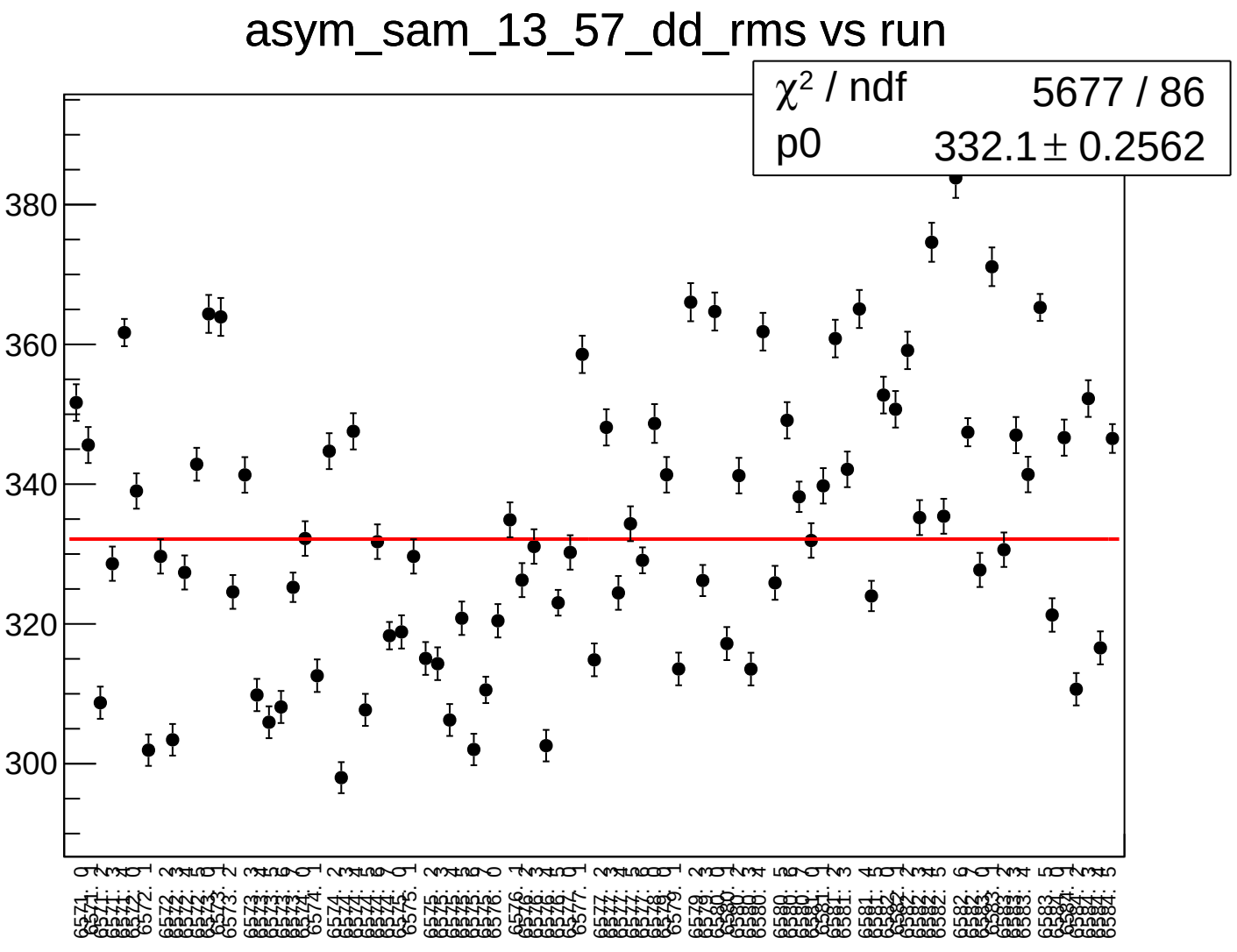

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 101 / 86
p0 −594.3 ± 352.7
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 264.8
Std Dev 0
3
2
1
0
−1
−2

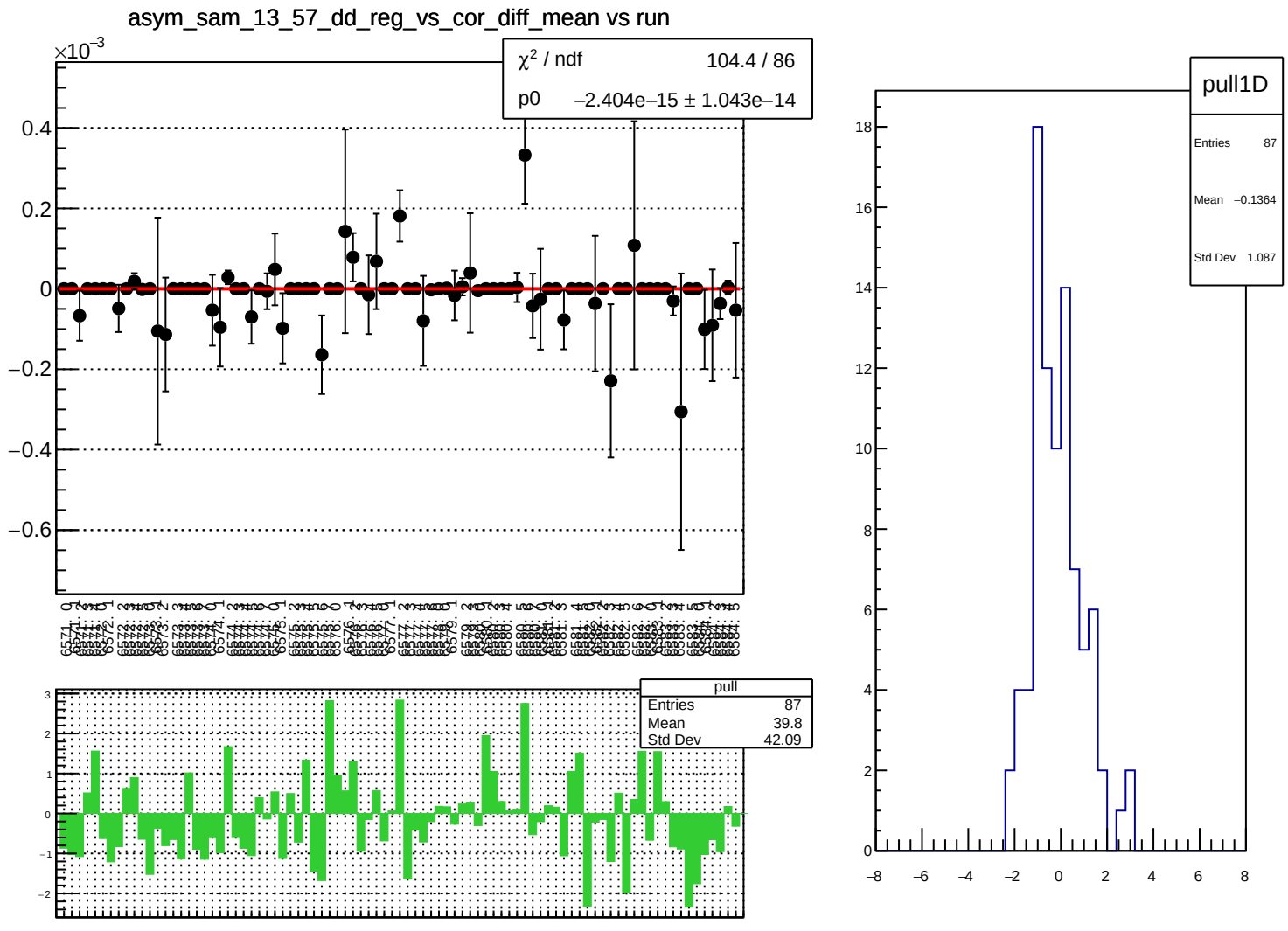

pull1D
Entries 87
Mean −0.01518
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

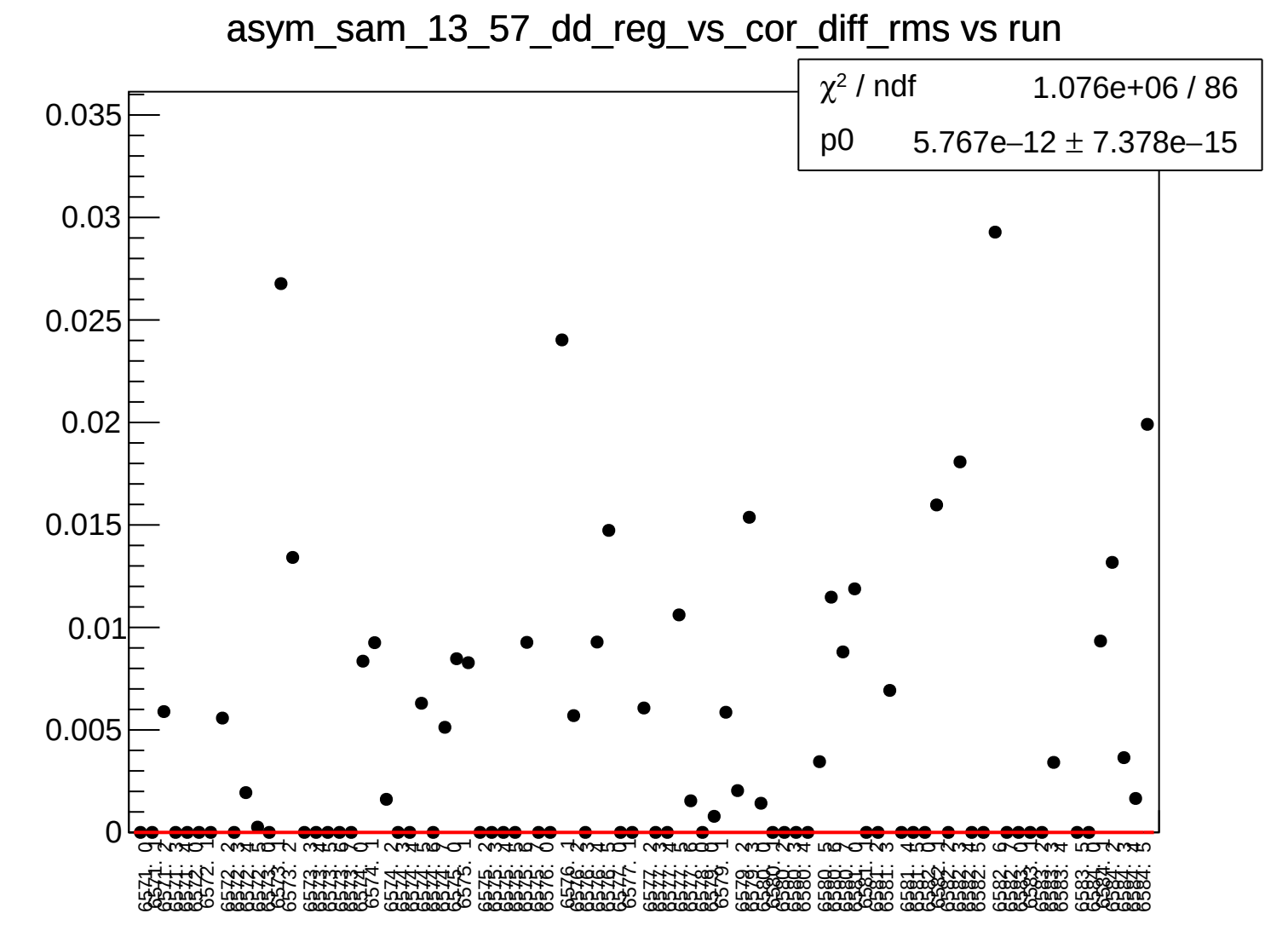

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 4172 / 86
p0 323.5 ± 0.2494
370
360
350
340
330
320
310
300
290

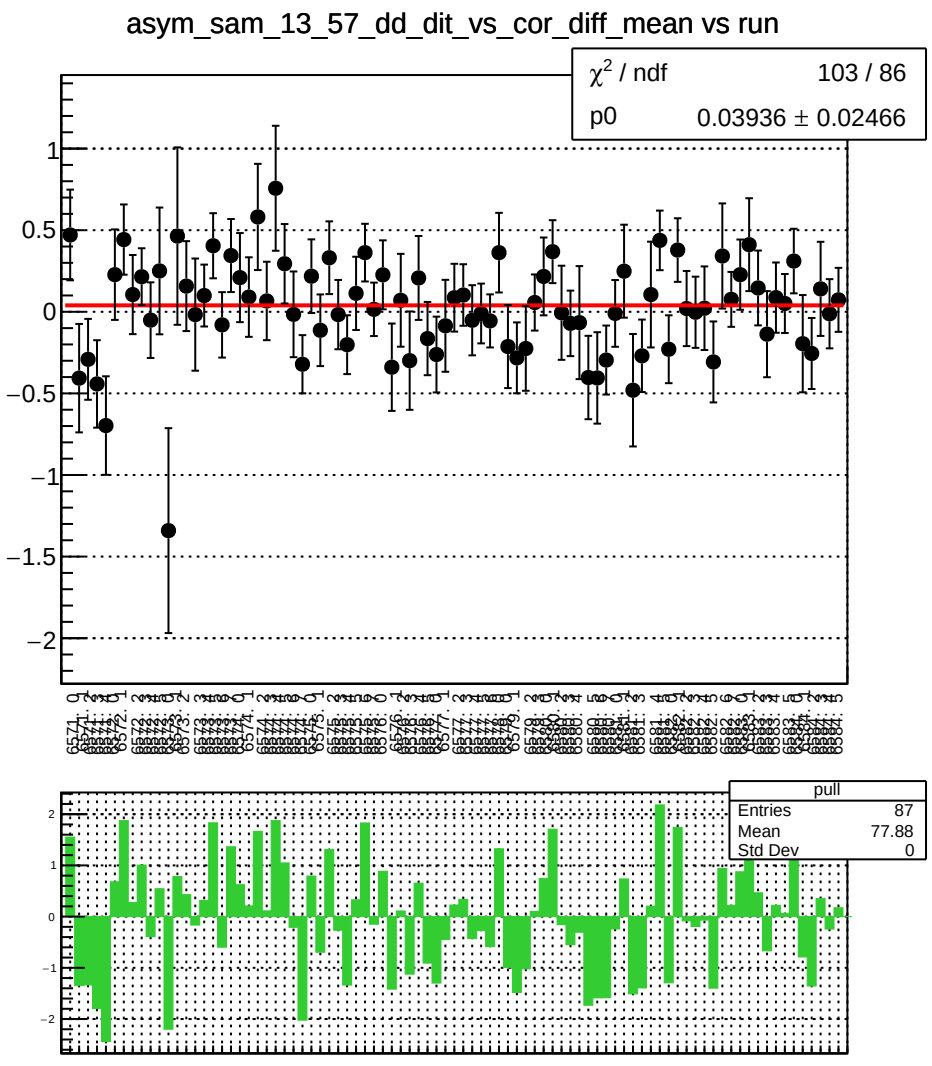

asym_sam_13_57_dd_mean vs run
χ² / ndf 101.3 / 86
p0 465.2 ± 362.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 278.2
Std Dev 0
2
1
0
−1
−2
−3

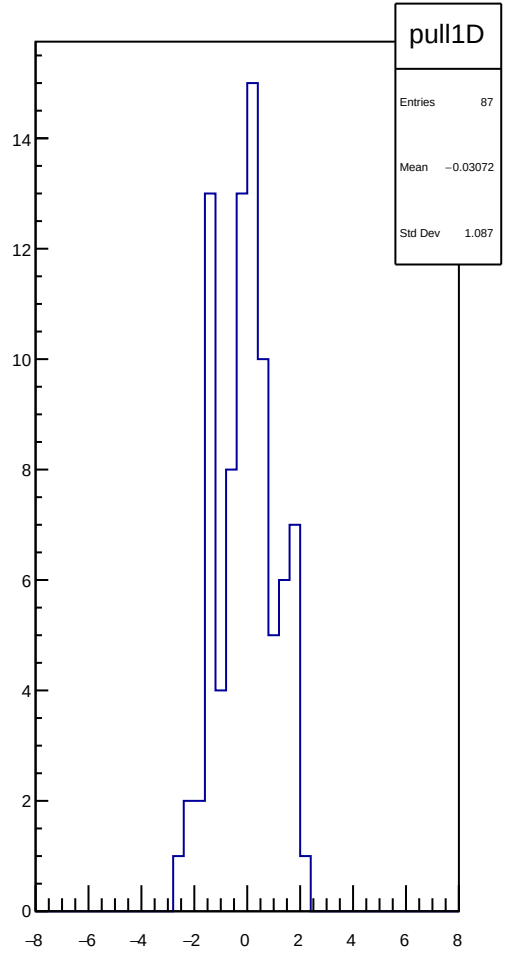

pull1D
Entries 87
Mean 0.01242
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

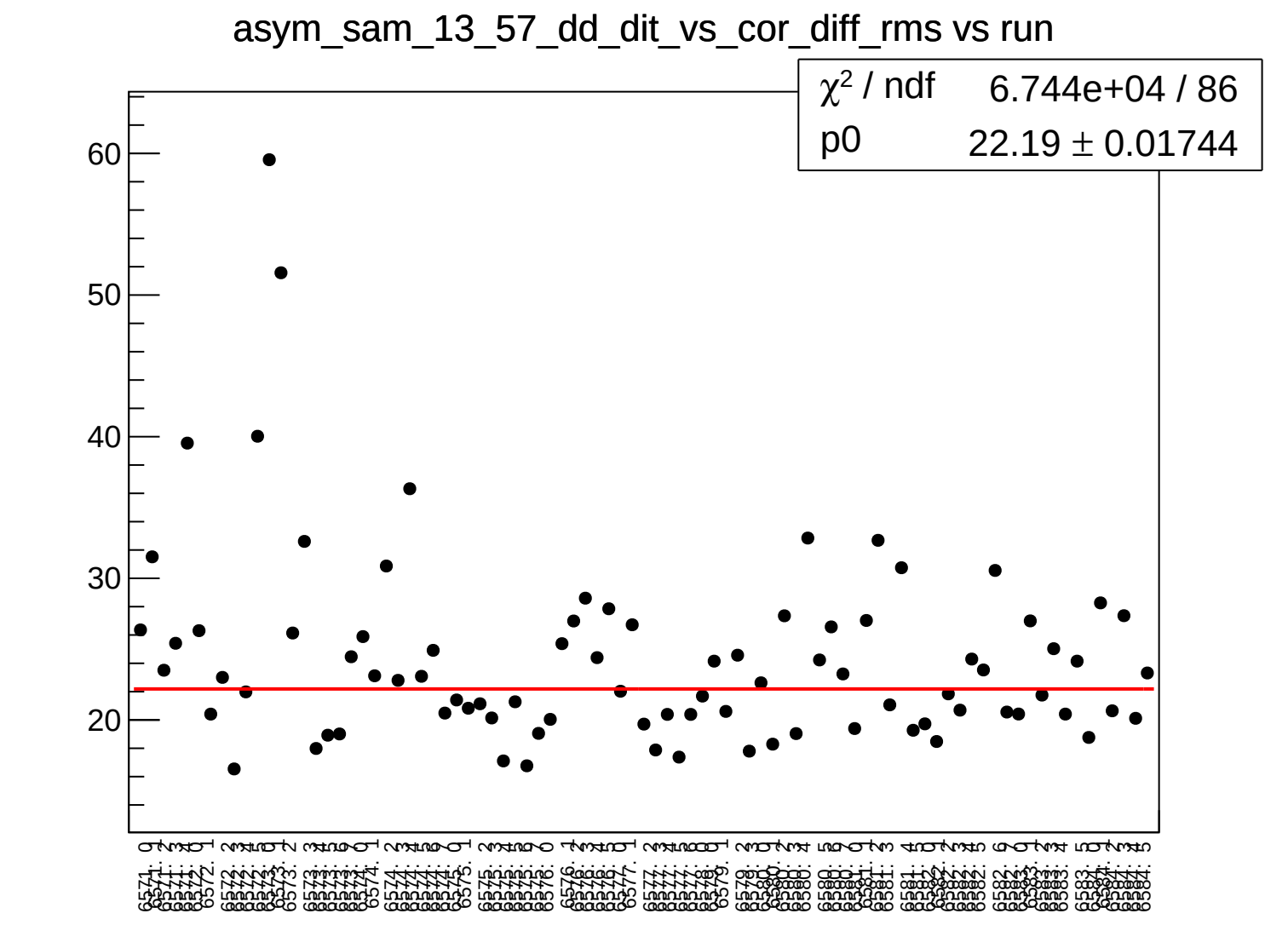

asym_sam_13_57_dd_rms vs run
χ² / ndf 5677 / 86
p0 332.1 ± 0.2562
380
360
340
320
300

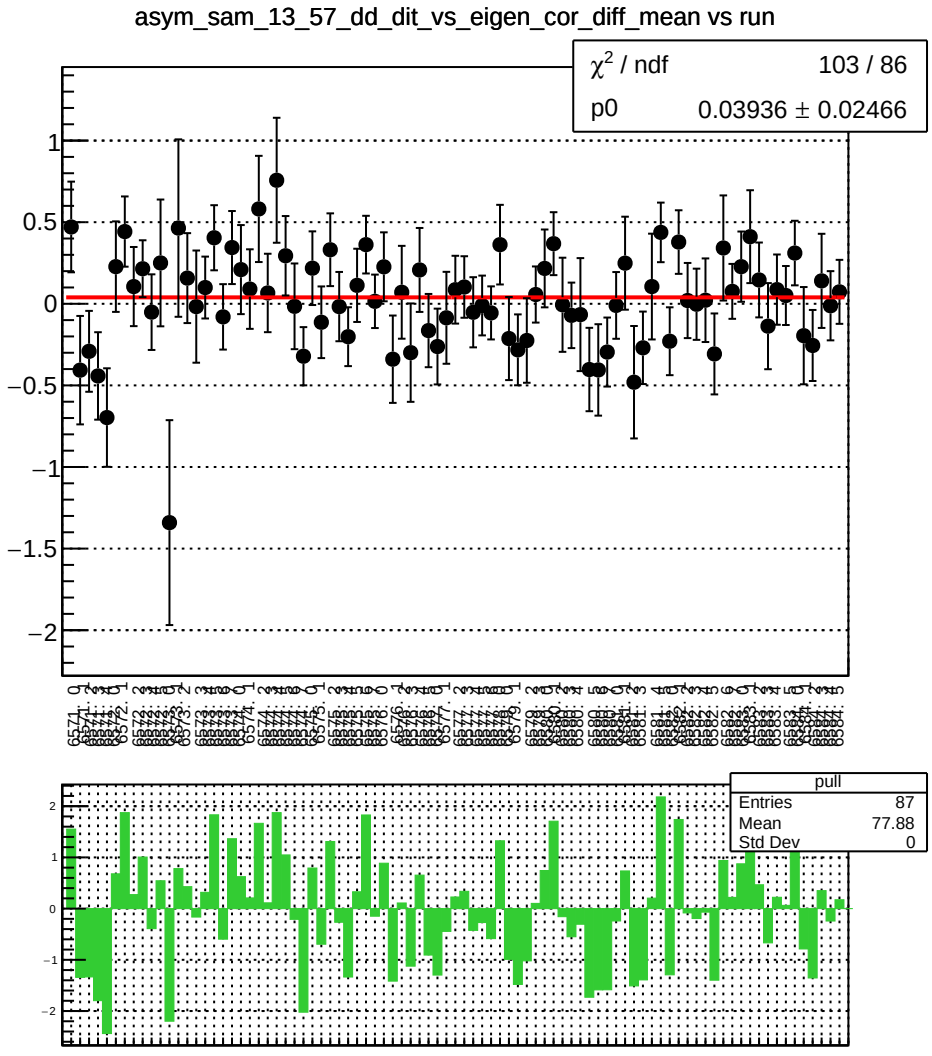

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 104.4 / 86
p0 −2.404e−15 ± 1.043e−14
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 87
Mean 39.8
Std Dev 42.09
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.1364
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

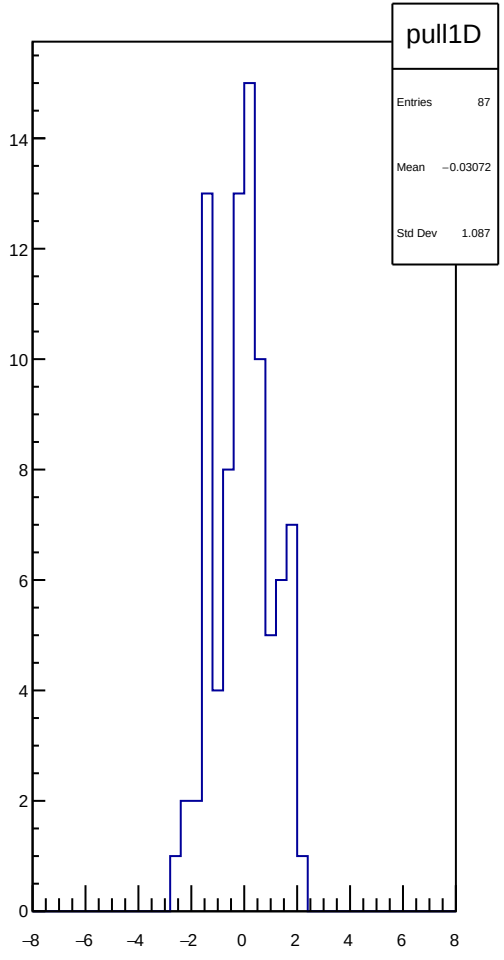

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.076e+06 / 86
p0 5.767e−12 ± 7.378e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

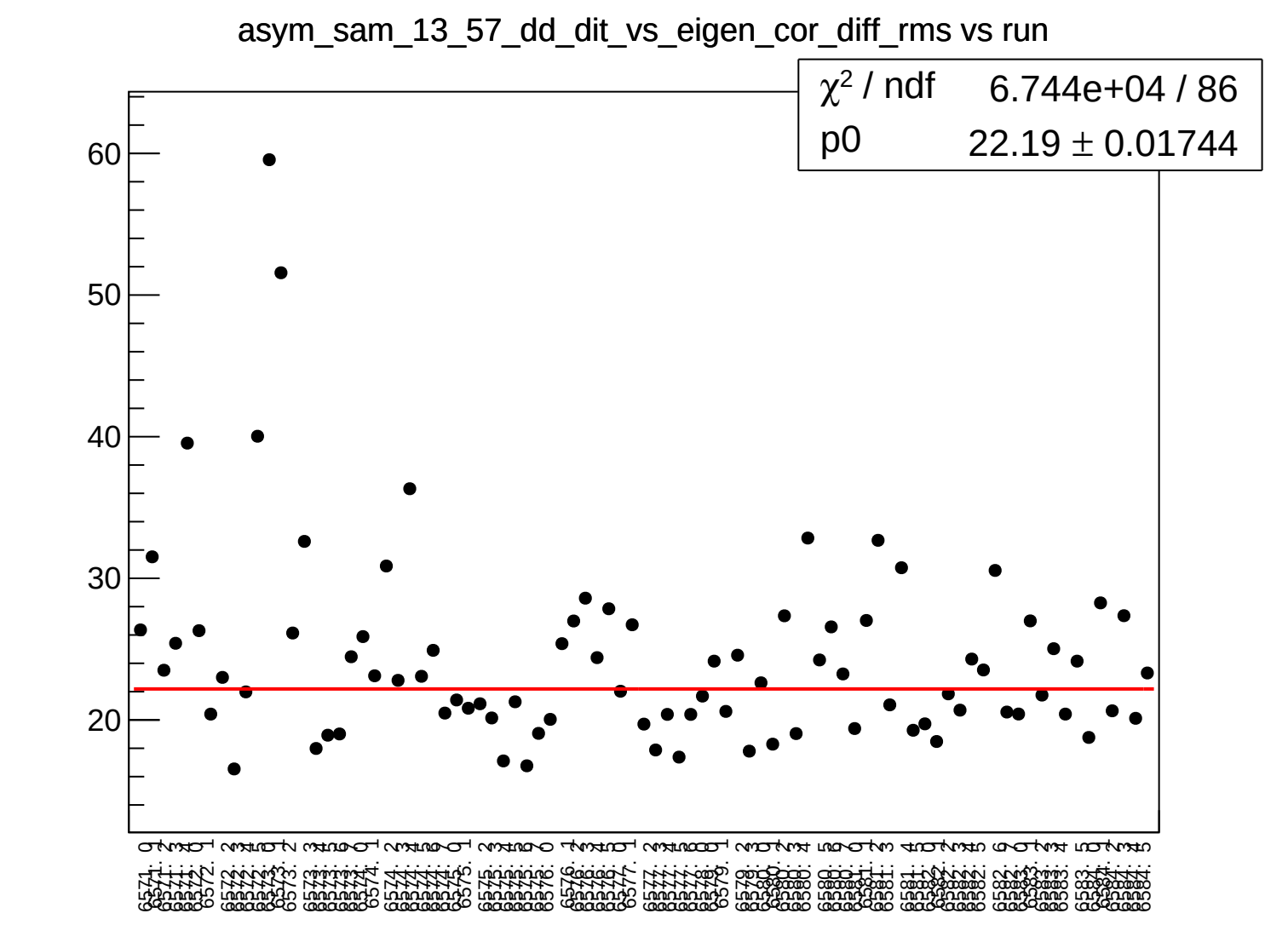

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103 / 86
p0 0.03936 ± 0.02466
pull
Entries 87
Mean 77.88
Std Dev 0

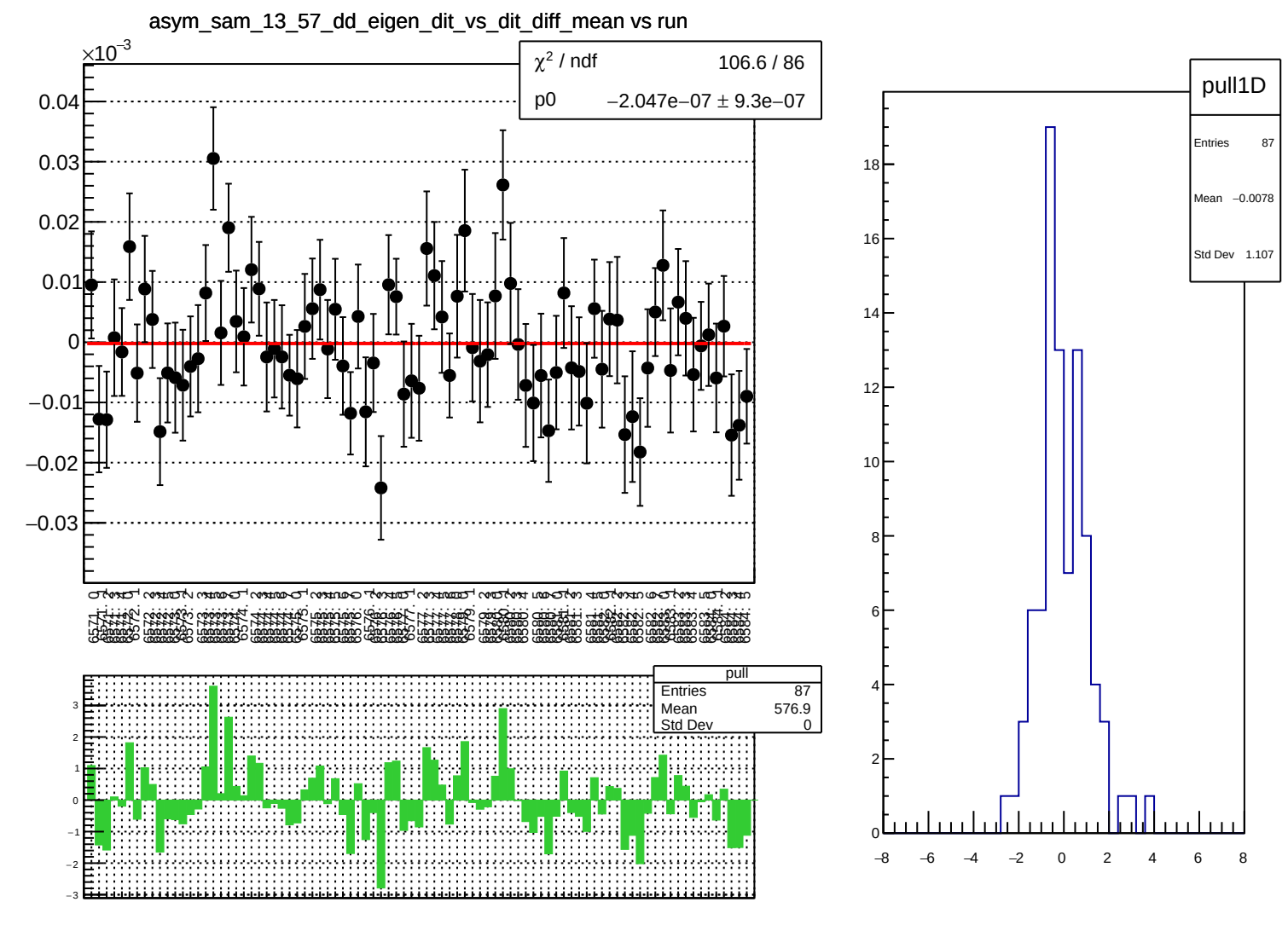

pull1D
Entries 87
Mean −0.03072
Std Dev 1.087

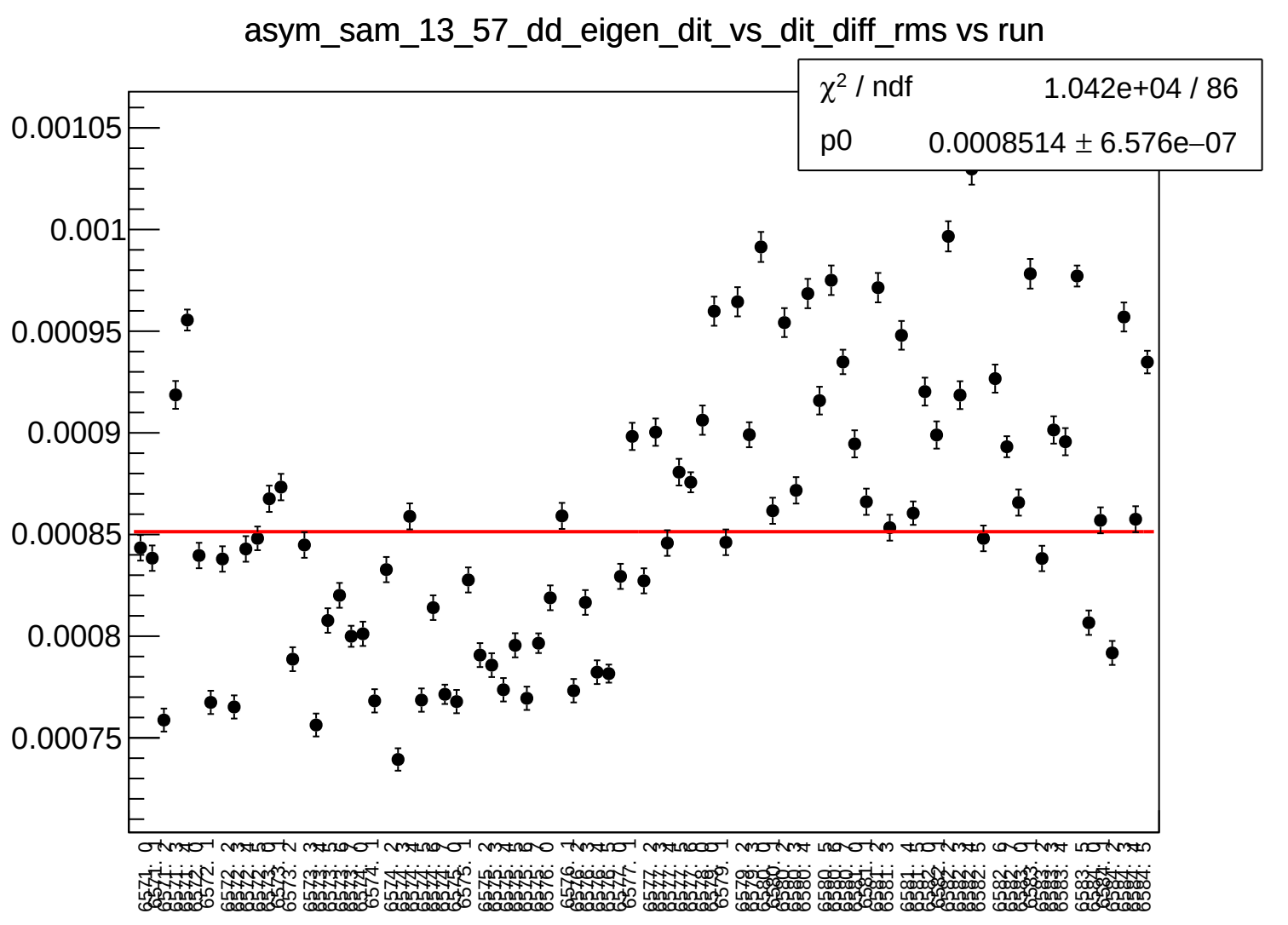

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.744e+04 / 86
p0 22.19 ± 0.01744
60
50
40
30
20

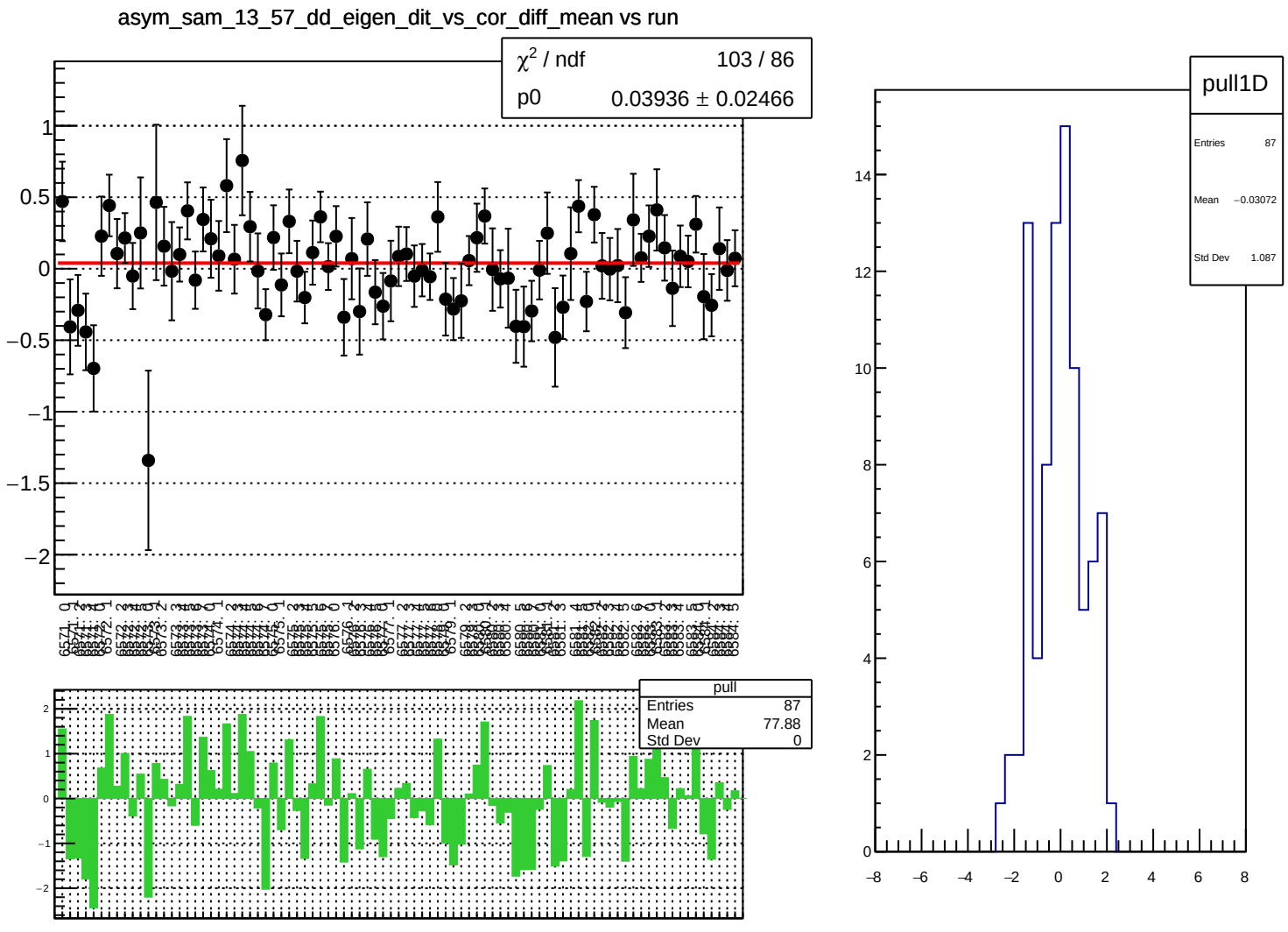

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103 / 86
p0 0.03936 ± 0.02466
pull
Entries 87
Mean 77.88
Std Dev 0

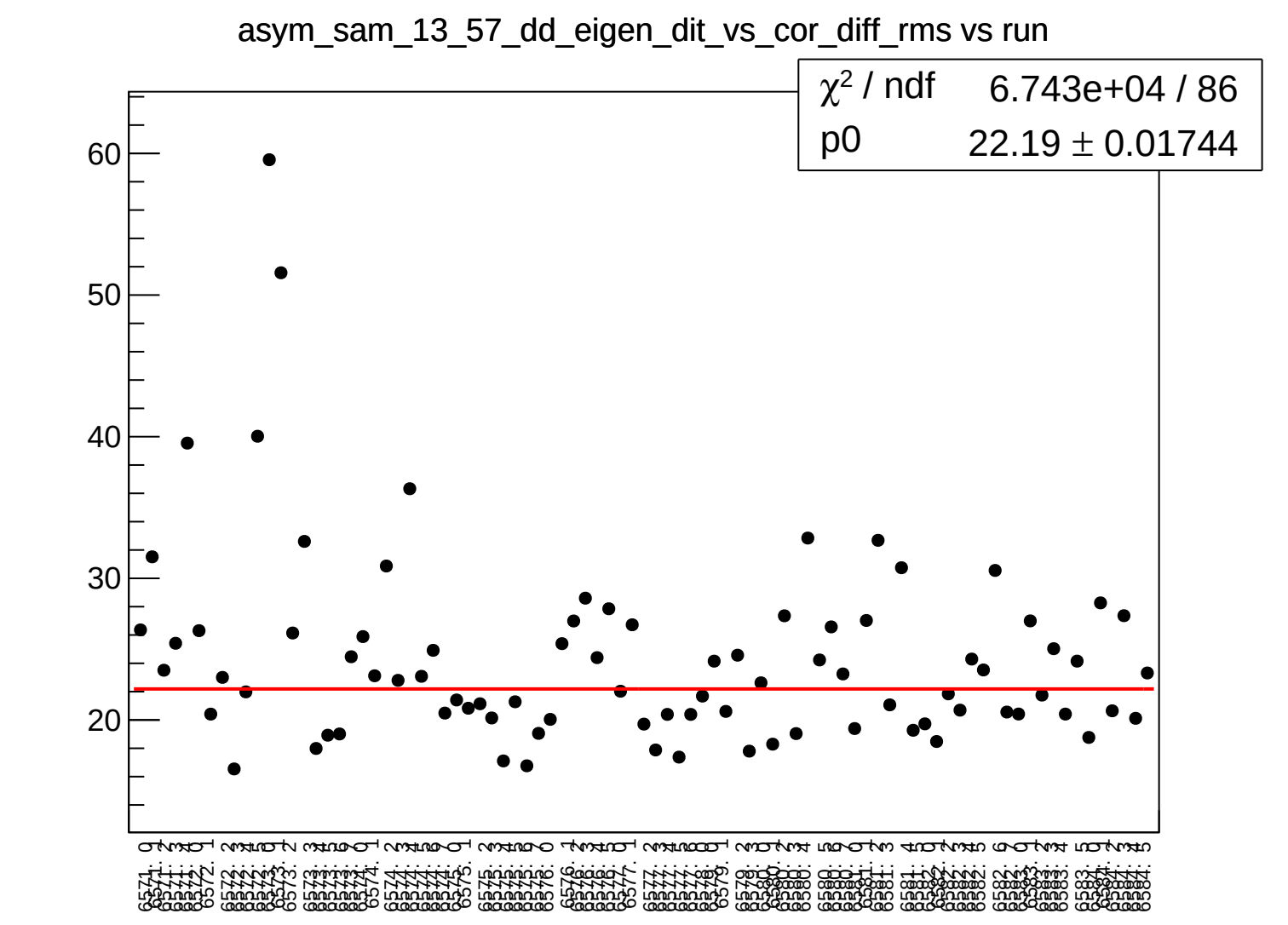

pull1D
Entries 87
Mean −0.03072
Std Dev 1.087

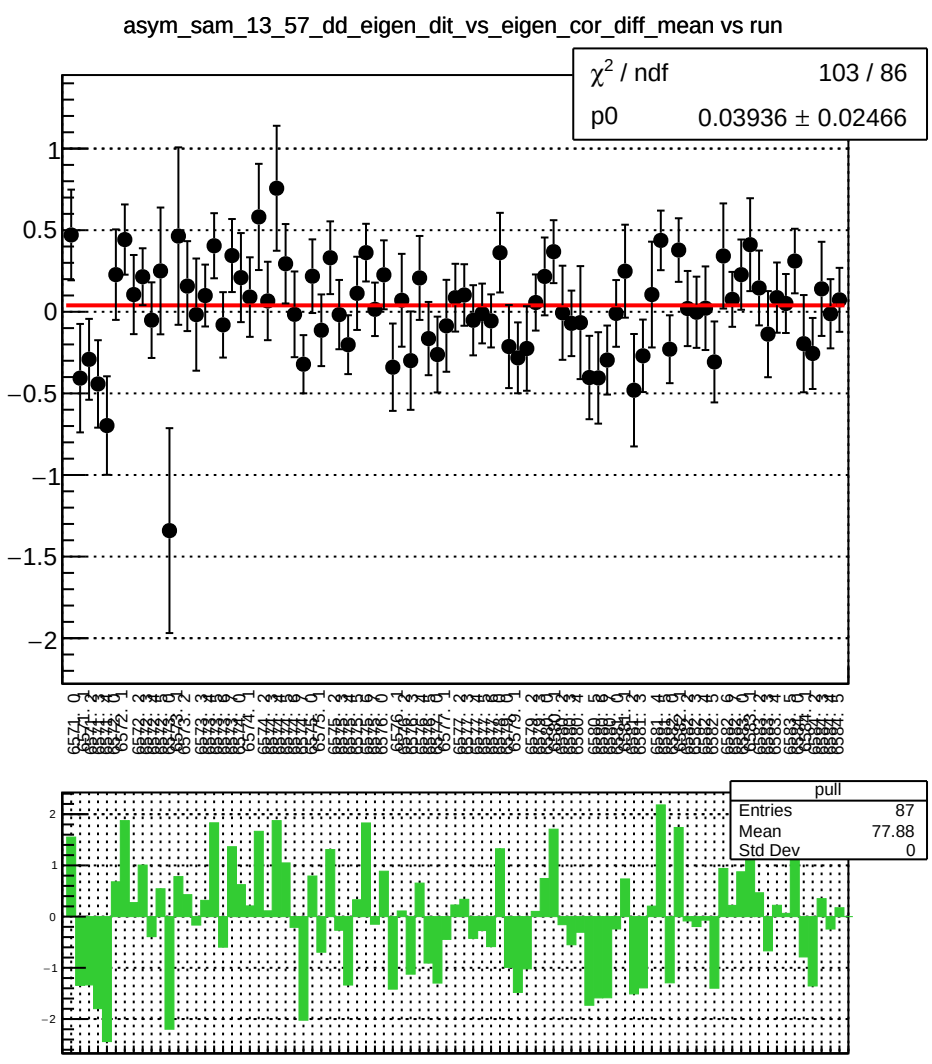

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.744e+04 / 86
p0 22.19 ± 0.01744
60
50
40
30
20

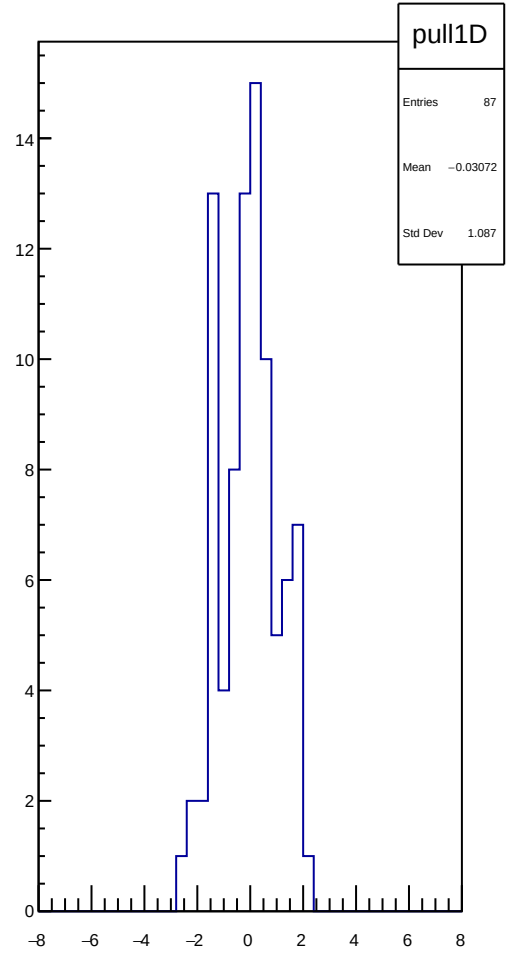

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 106.6 / 86
p0 −2.047e−07 ± 9.3e−07
pull
Entries 87
Mean 576.9
Std Dev 0
pull1D
Entries 87
Mean −0.0078
Std Dev 1.107

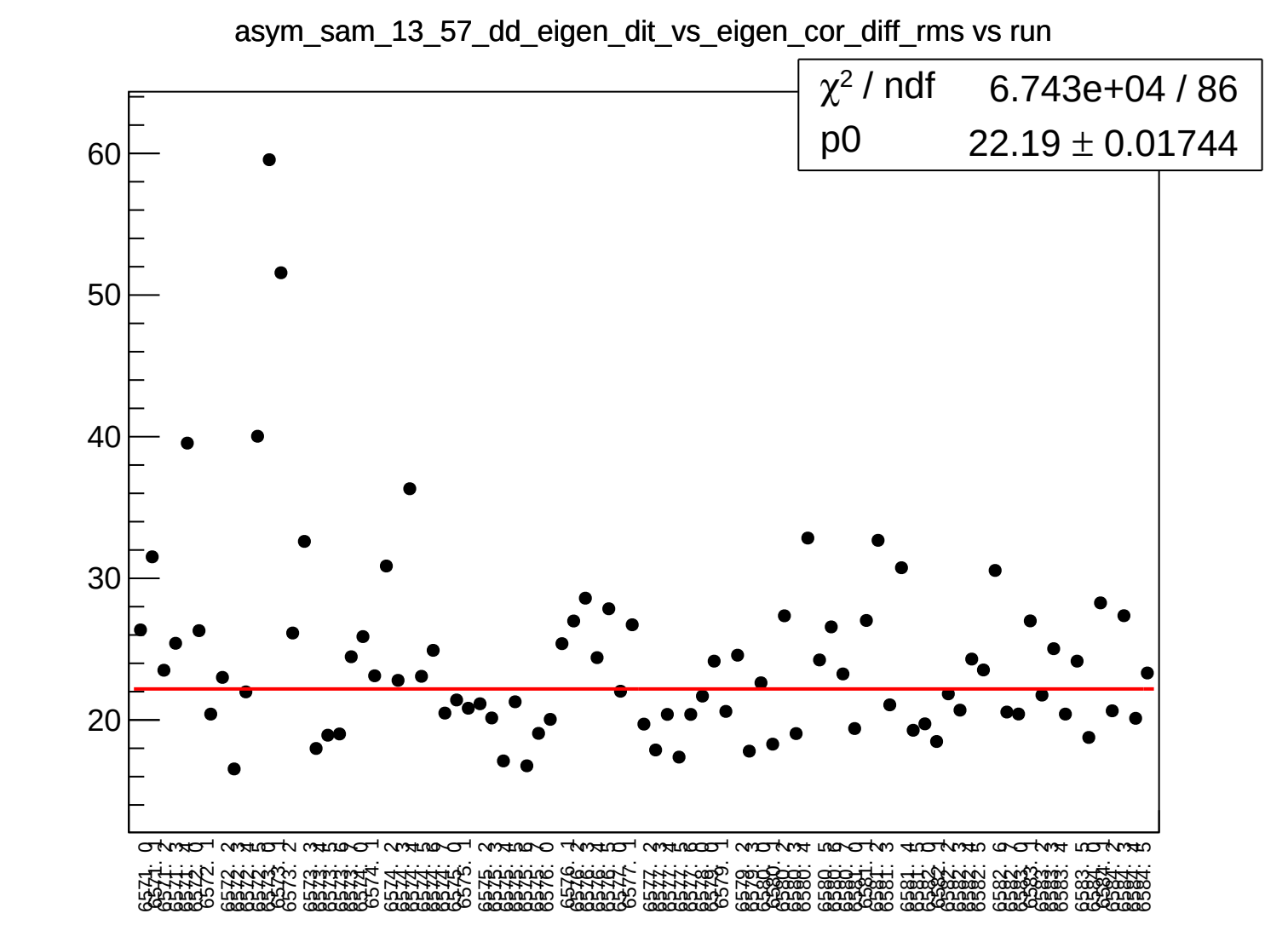

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.042e+04 / 86
p0 0.0008514 ± 6.576e−07
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075

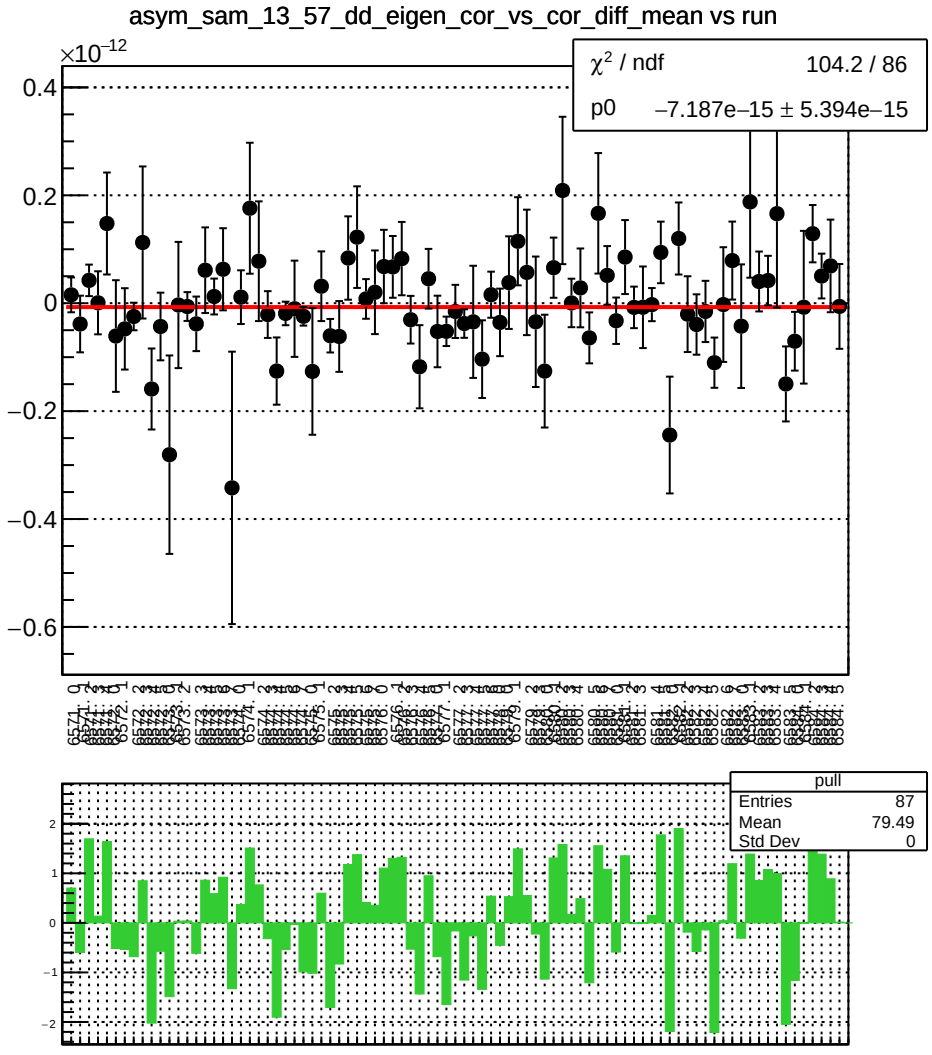

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103 / 86
p0 0.03936 ± 0.02466
pull
Entries 87
Mean 77.88
Std Dev 0
pull1D
Entries 87
Mean −0.03072
Std Dev 1.087

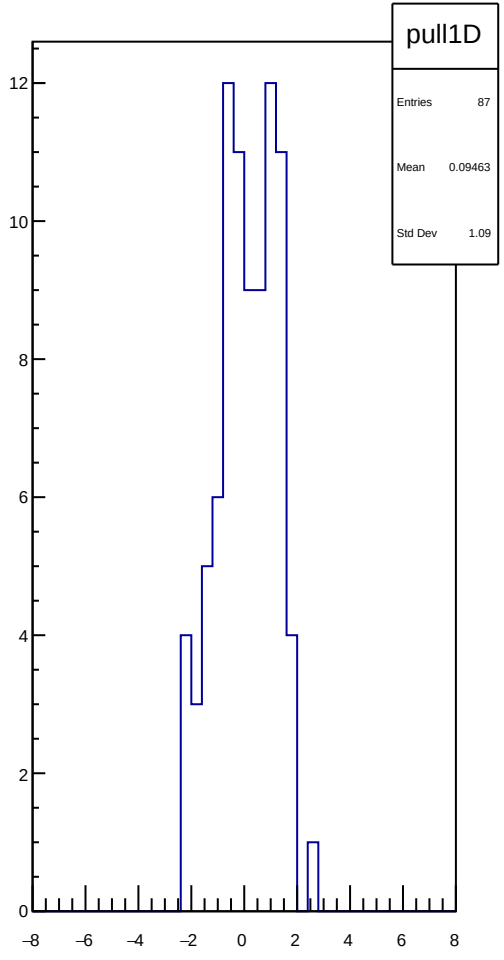

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.743e+04 / 86
p0 22.19 ± 0.01744
60
50
40
30
20

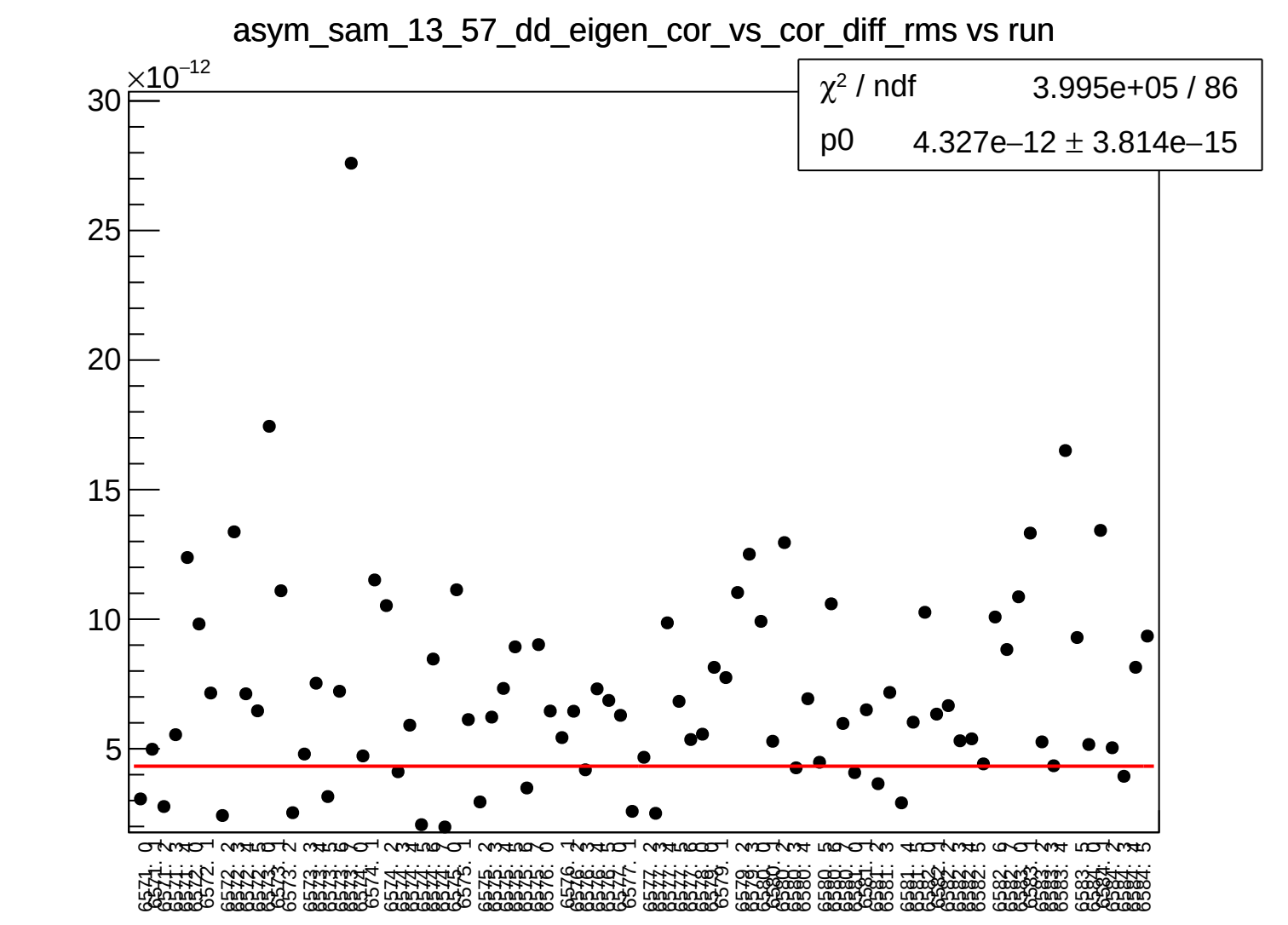

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103 / 86
p0 0.03936 ± 0.02466
pull
Entries 87
Mean 77.88
Std Dev 0

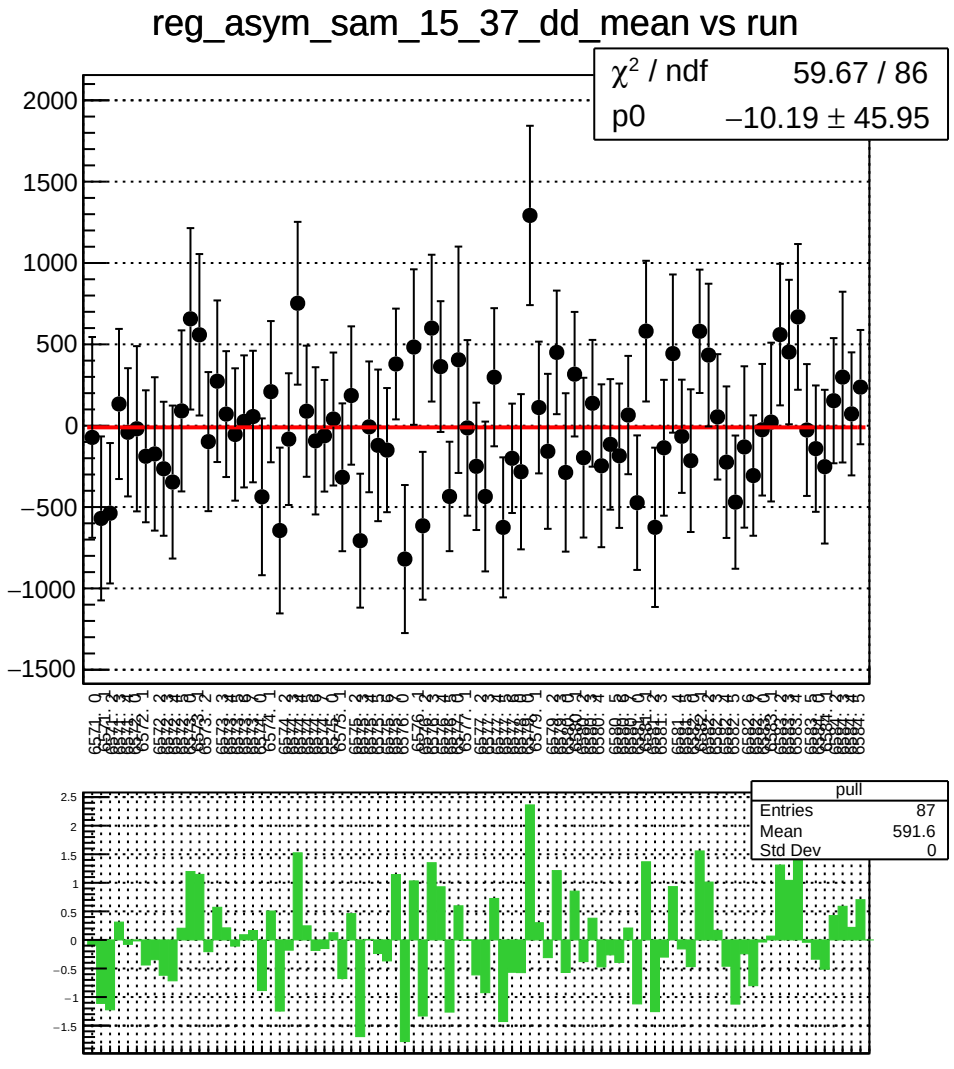

pull1D
Entries 87
Mean −0.03072
Std Dev 1.087

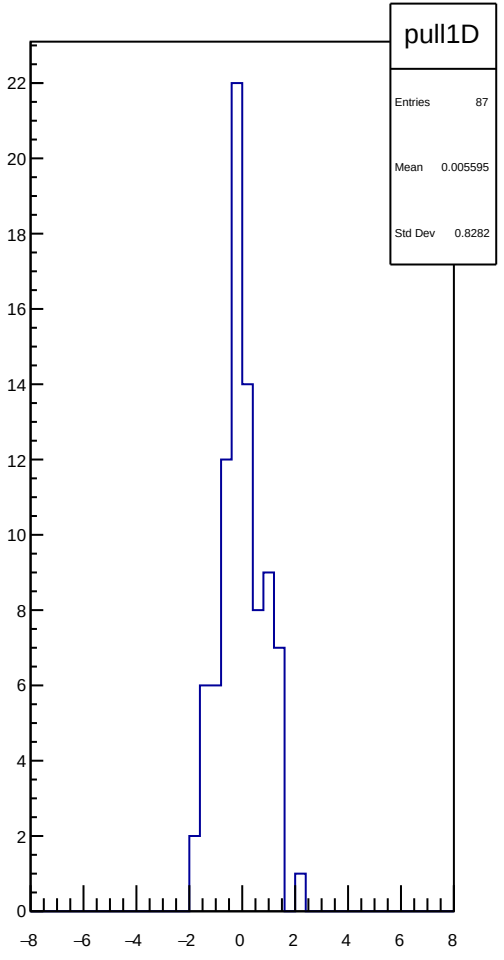

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.743e+04 / 86
p0 22.19 ± 0.01744
60
50
40
30
20

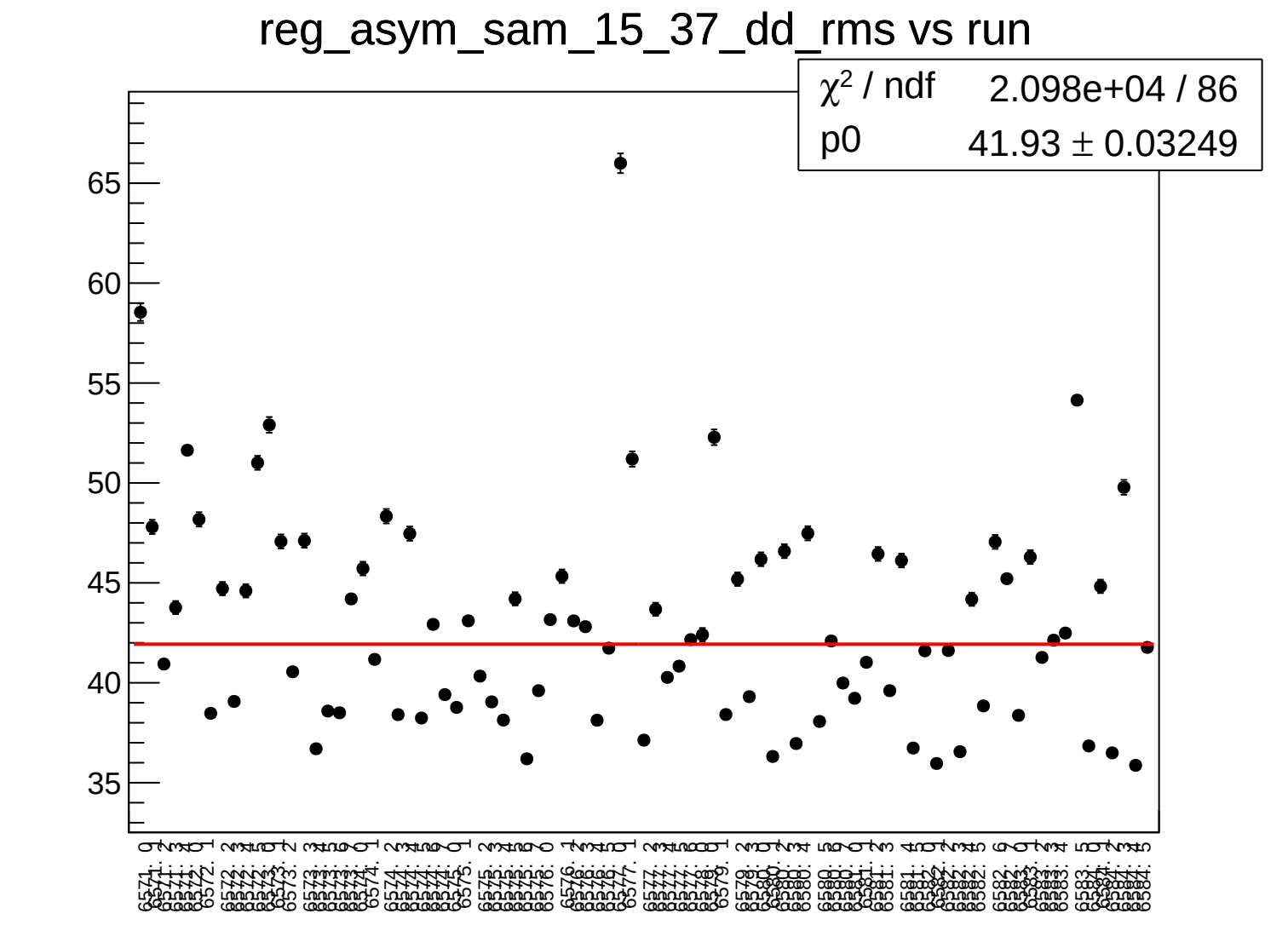

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.2 / 86
p0 −7.187e−15 ± 5.394e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 87
Mean 79.49
Std Dev 0
2
1
0
−1
−2

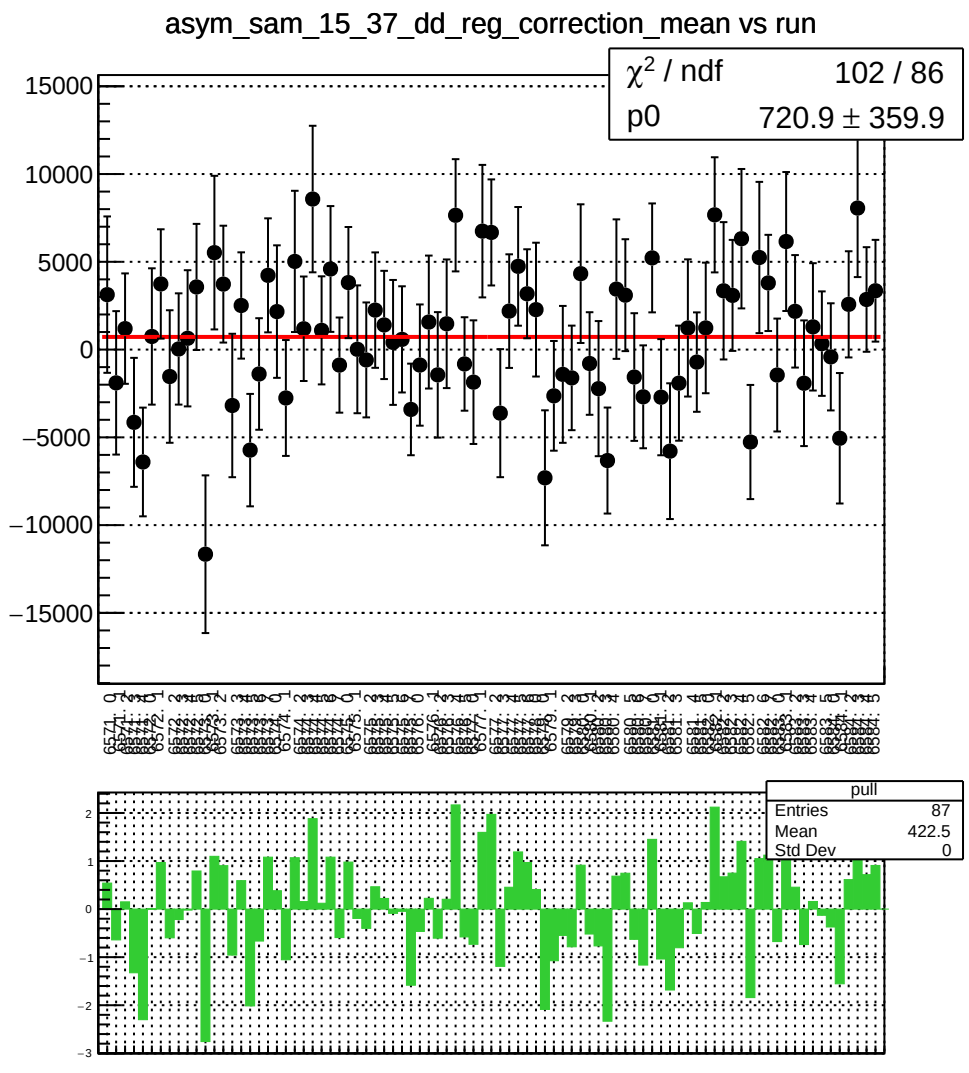

pull1D
Entries 87
Mean 0.09463
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

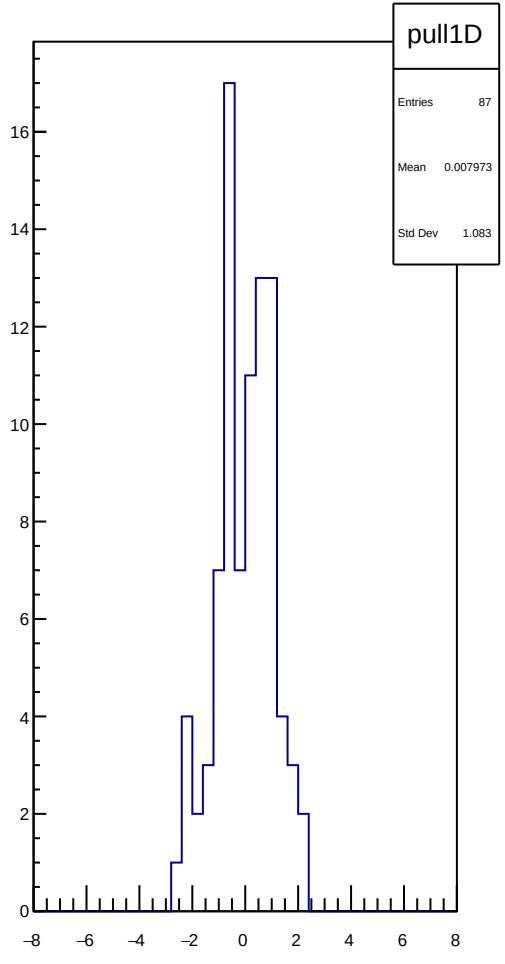

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
30
25
20
15
10
5
χ² / ndf 3.995e+05 / 86
p0 4.327e−12 ± 3.814e−15

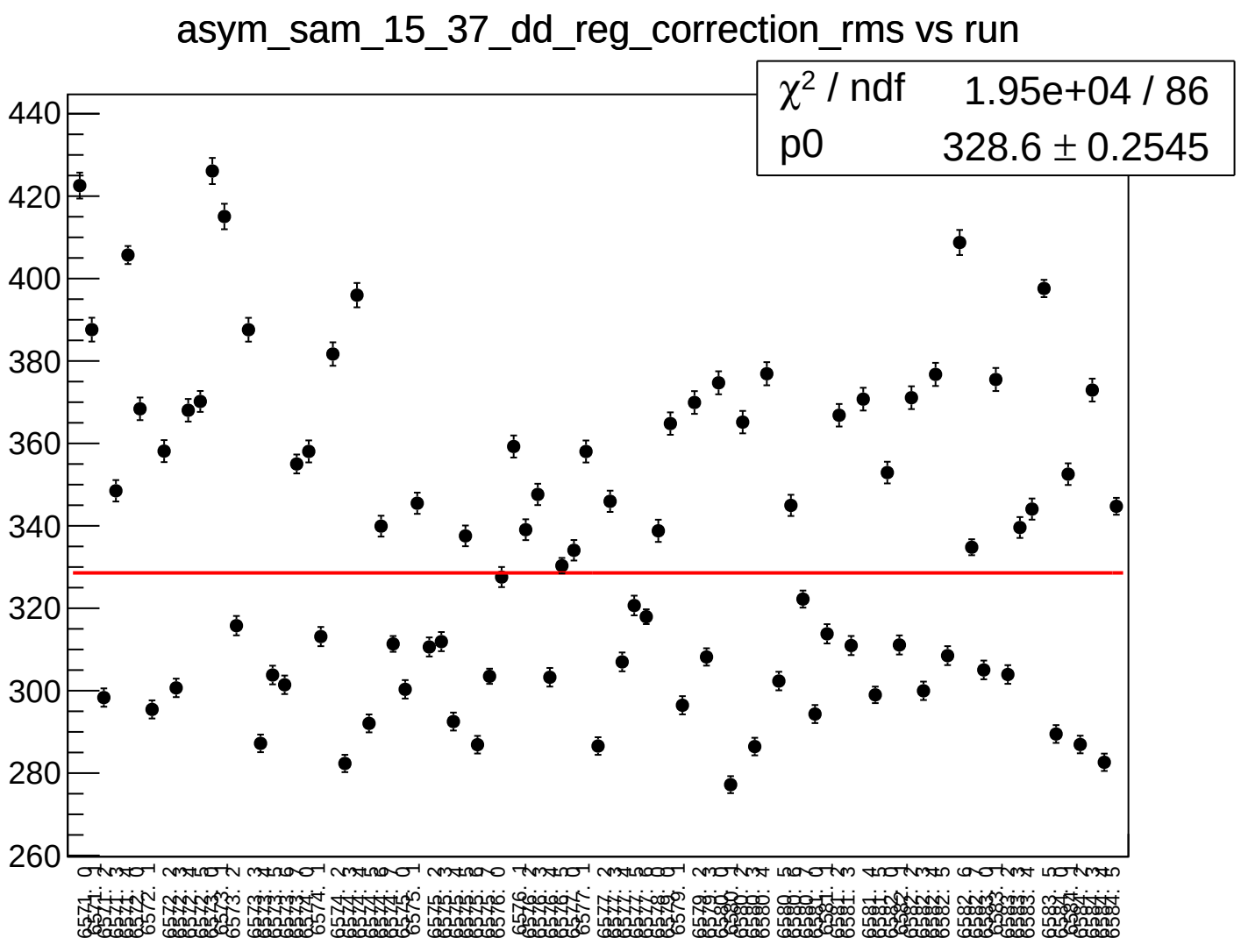

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 59.67 / 86
p0 −10.19 ± 45.95
pull
Entries 87
Mean 591.6
Std Dev 0

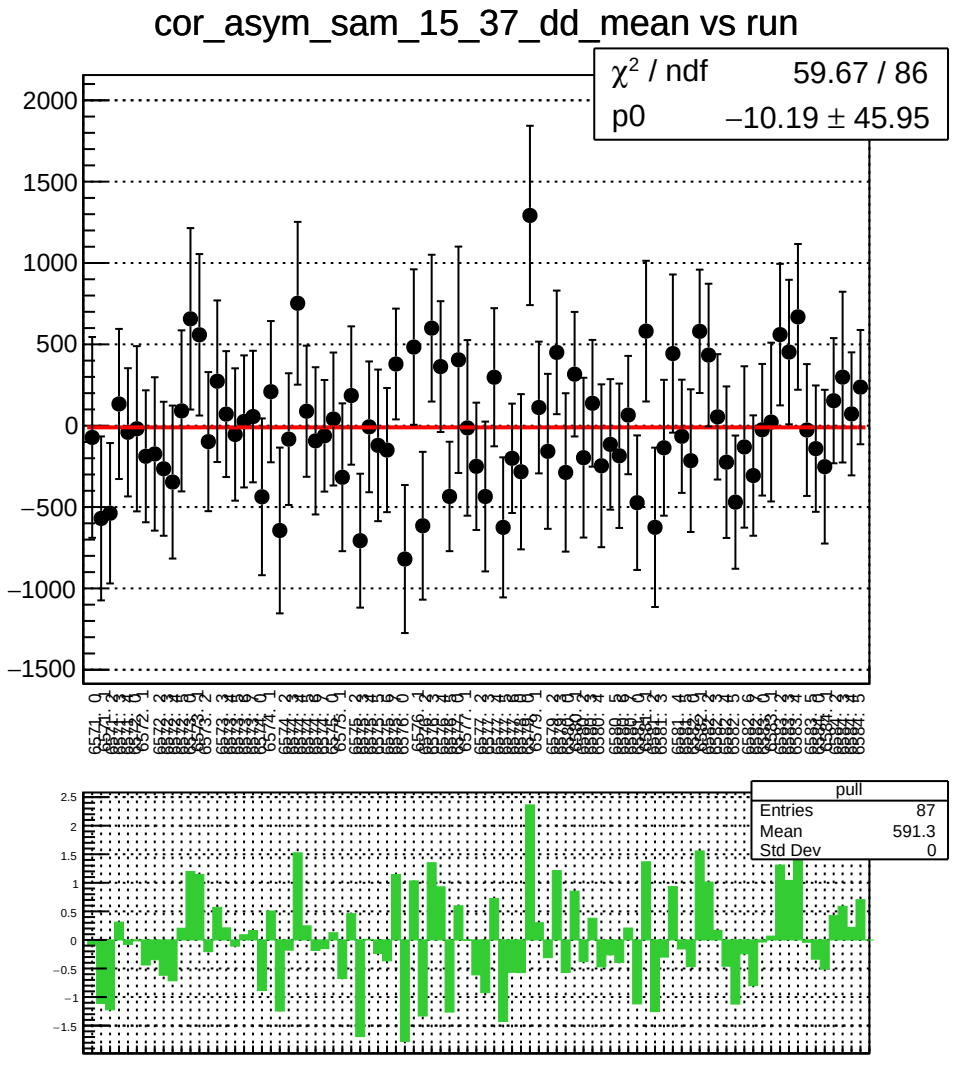

pull1D
Entries 87
Mean 0.005595
Std Dev 0.8282

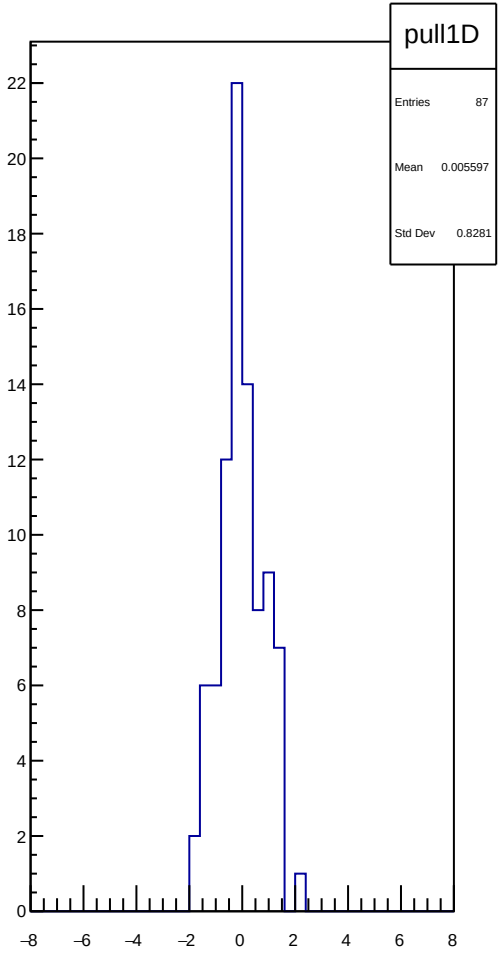

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.098e+04 / 86
p0 41.93 ± 0.03249
65
60
55
50
45
40
35

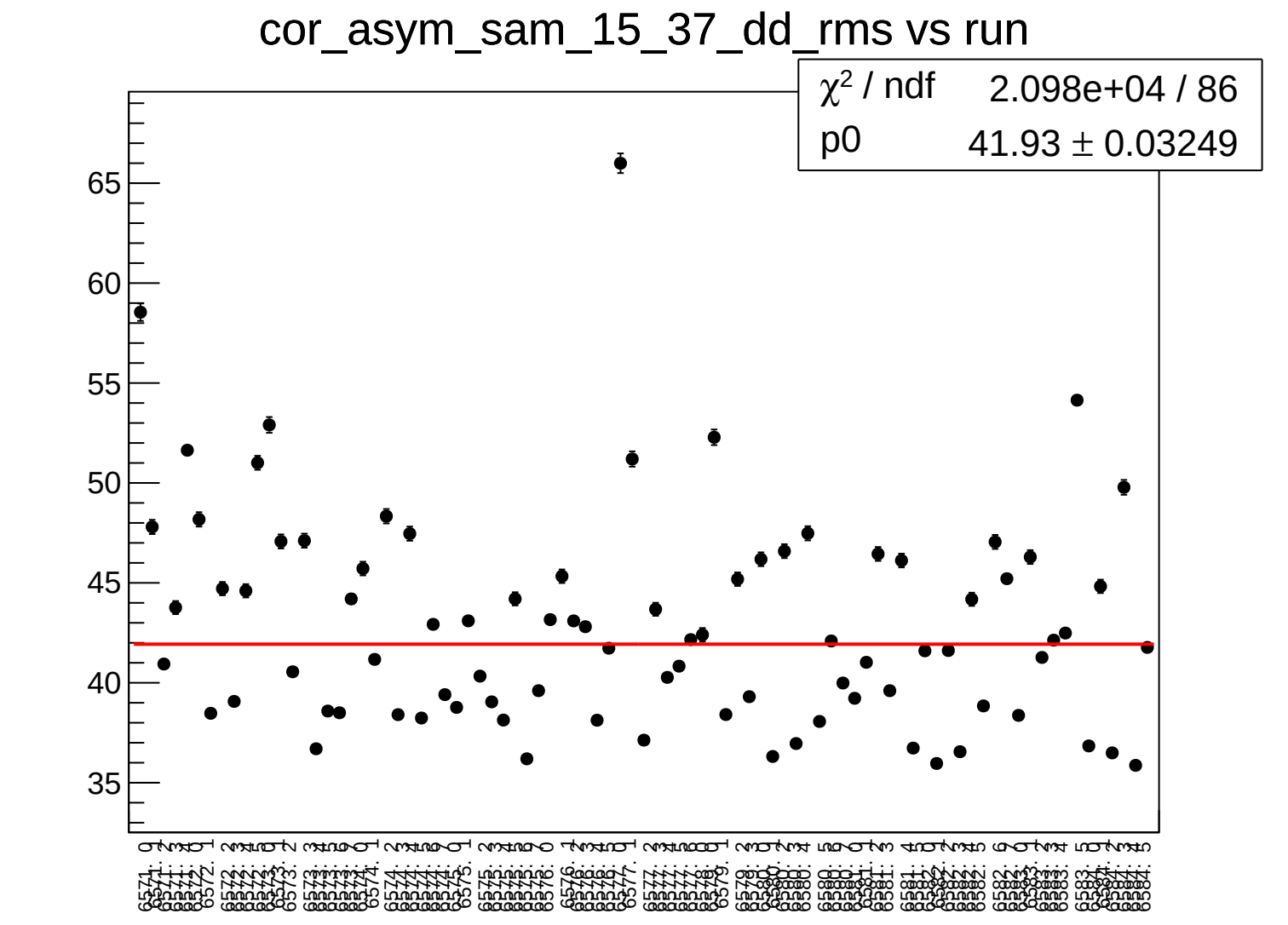

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 102 / 86
p0 720.9 ± 359.9
pull
Entries 87
Mean 422.5
Std Dev 0

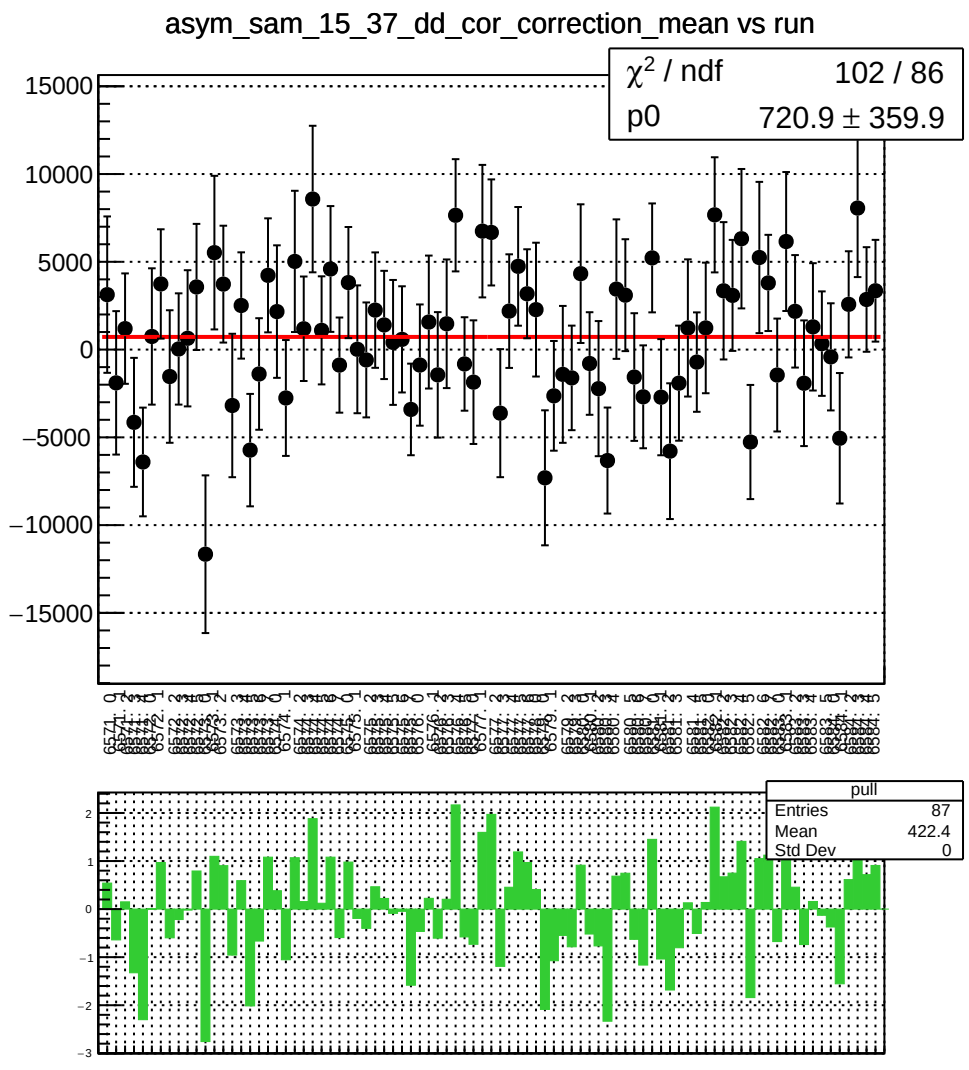

pull1D
Entries 87
Mean 0.007973
Std Dev 1.083

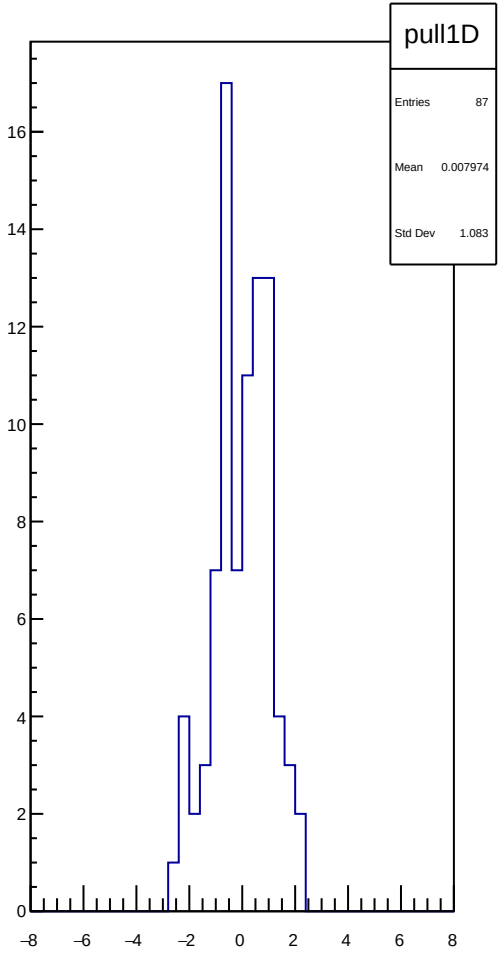

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.95e+04 / 86
p0 328.6 ± 0.2545
440
420
400
380
360
340
320
300
280
260

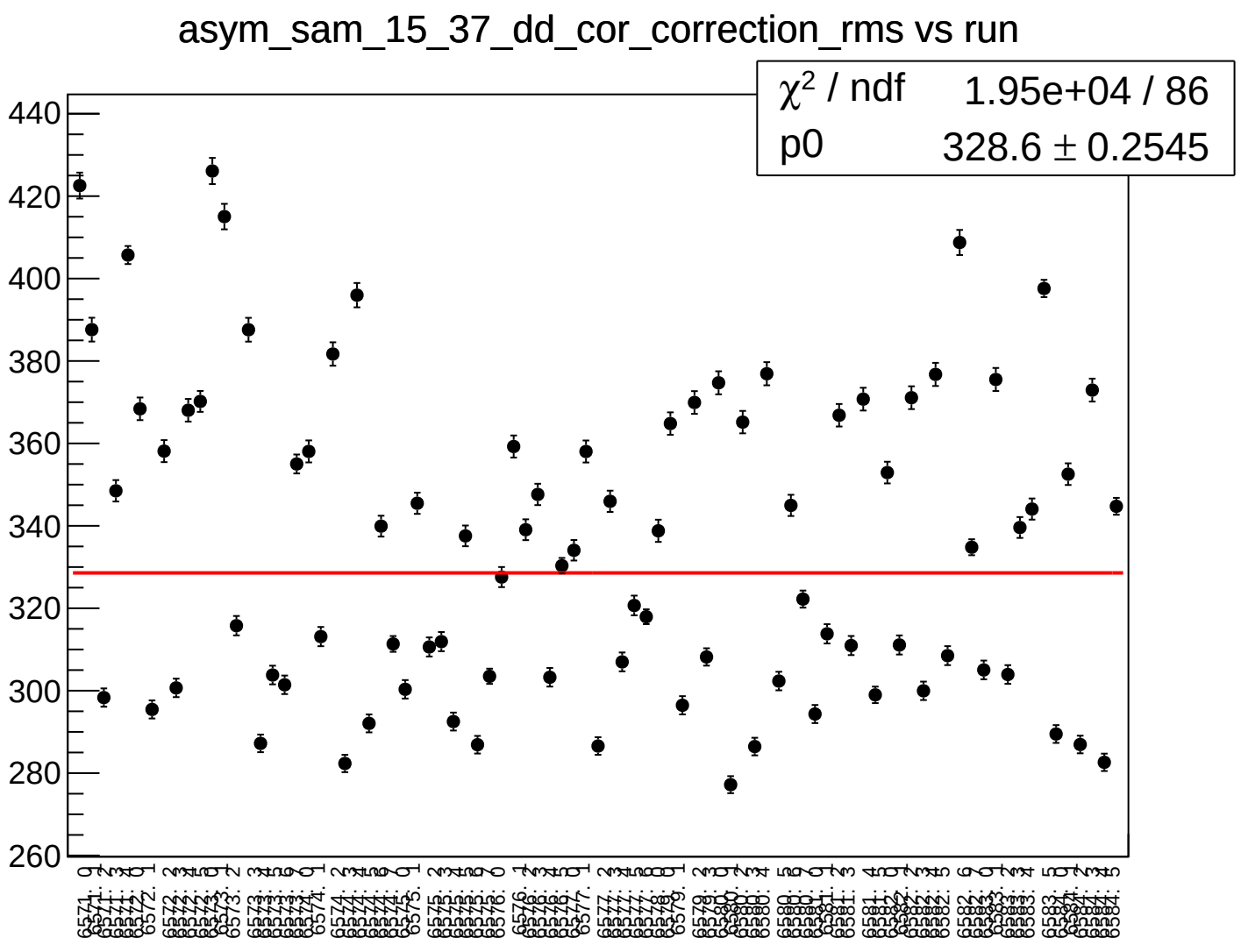

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 59.67 / 86
p0 −10.19 ± 45.95
pull
Entries 87
Mean 591.3
Std Dev 0

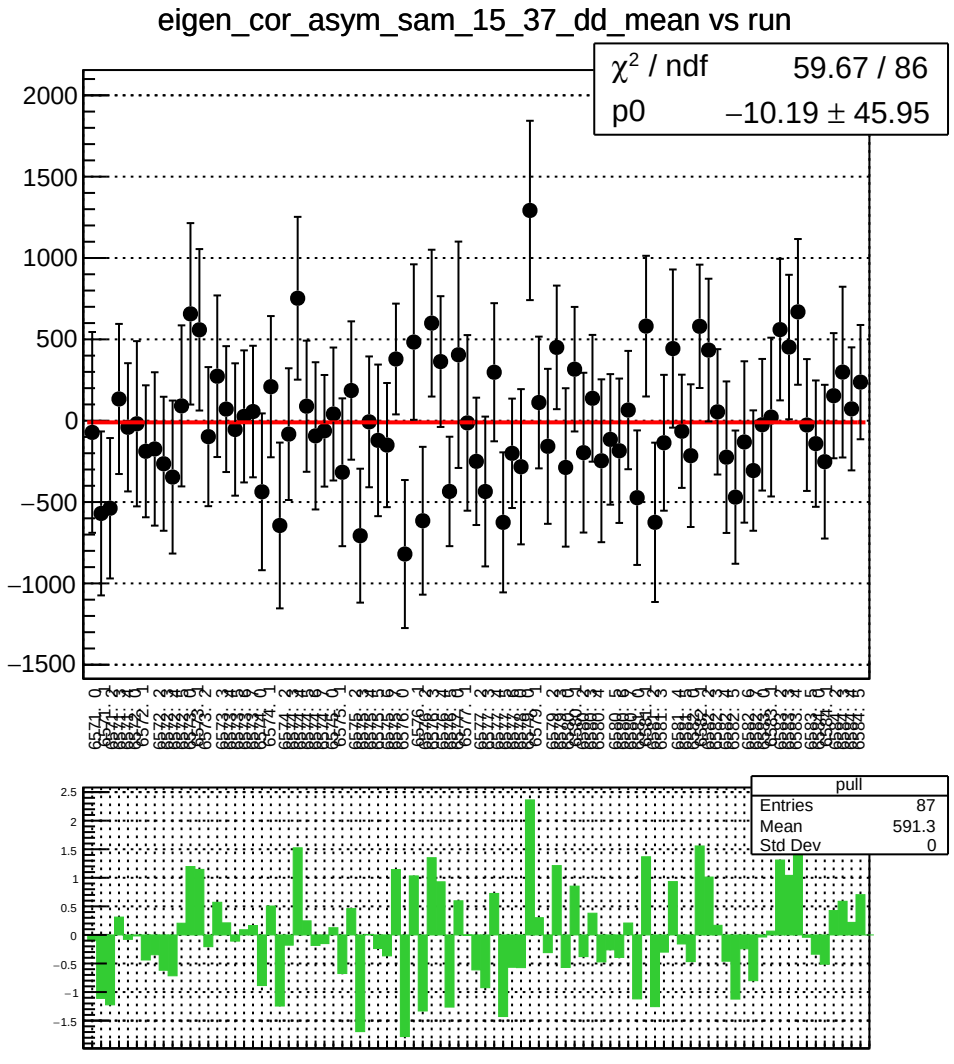

pull1D
Entries 87
Mean 0.005597
Std Dev 0.8281

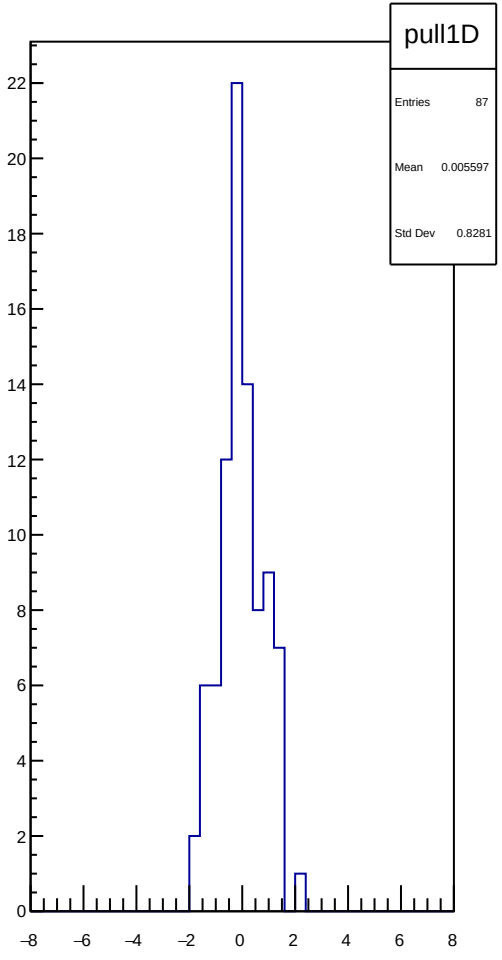

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.098e+04 / 86
p0 41.93 ± 0.03249
65
60
55
50
45
40
35

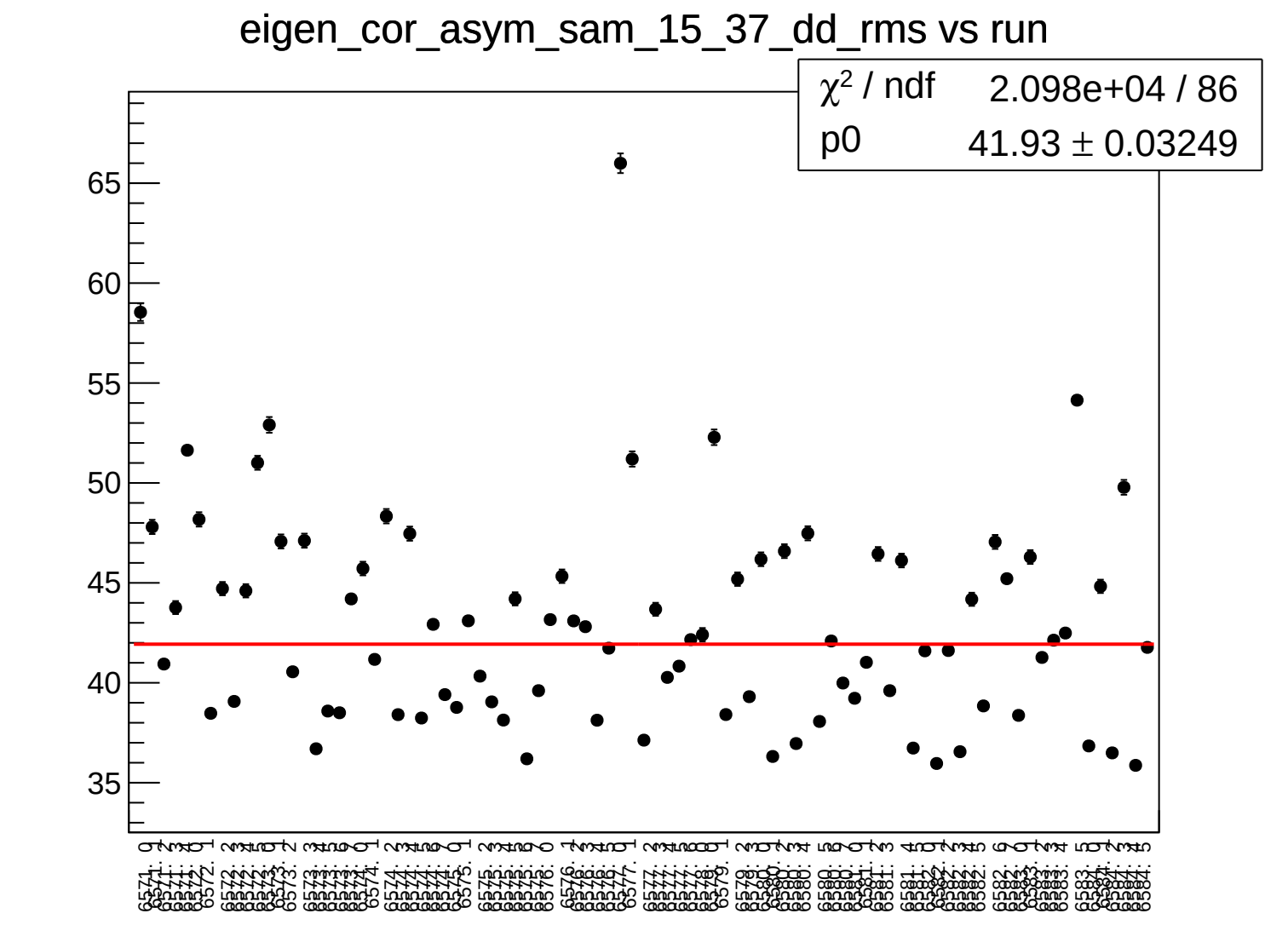

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 102 / 86
p0 720.9 ± 359.9
pull
Entries 87
Mean 422.4
Std Dev 0

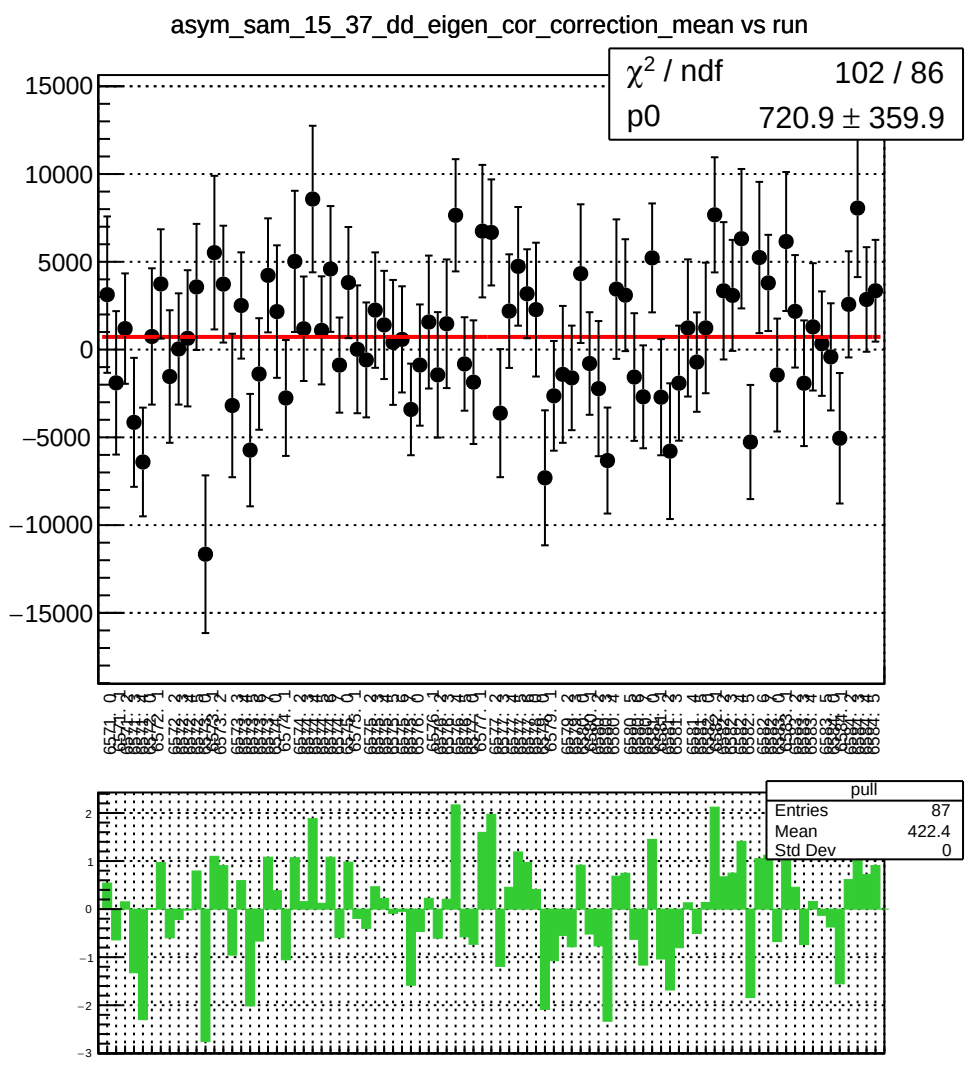

pull1D
Entries 87
Mean 0.007974
Std Dev 1.083

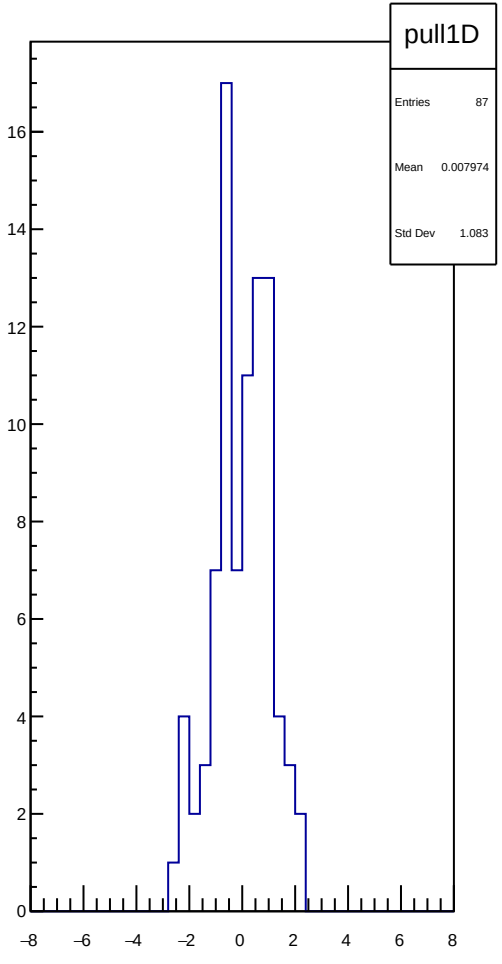

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.95e+04 / 86
p0 328.6 ± 0.2545
440
420
400
380
360
340
320
300
280
260

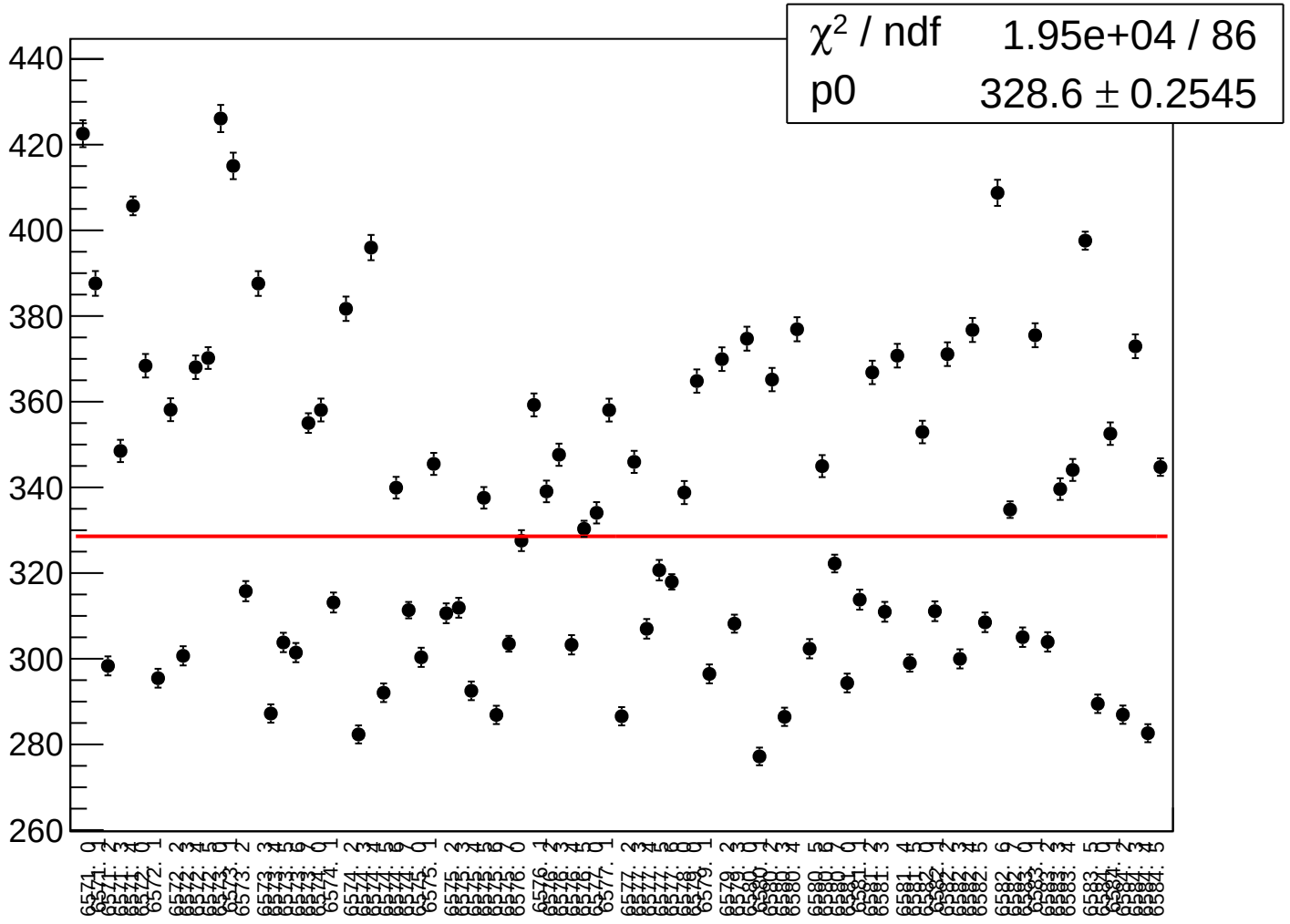

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 59.67 / 86
p0 −10.19 ± 45.95
pull
Entries 87
Mean 591.3
Std Dev 0

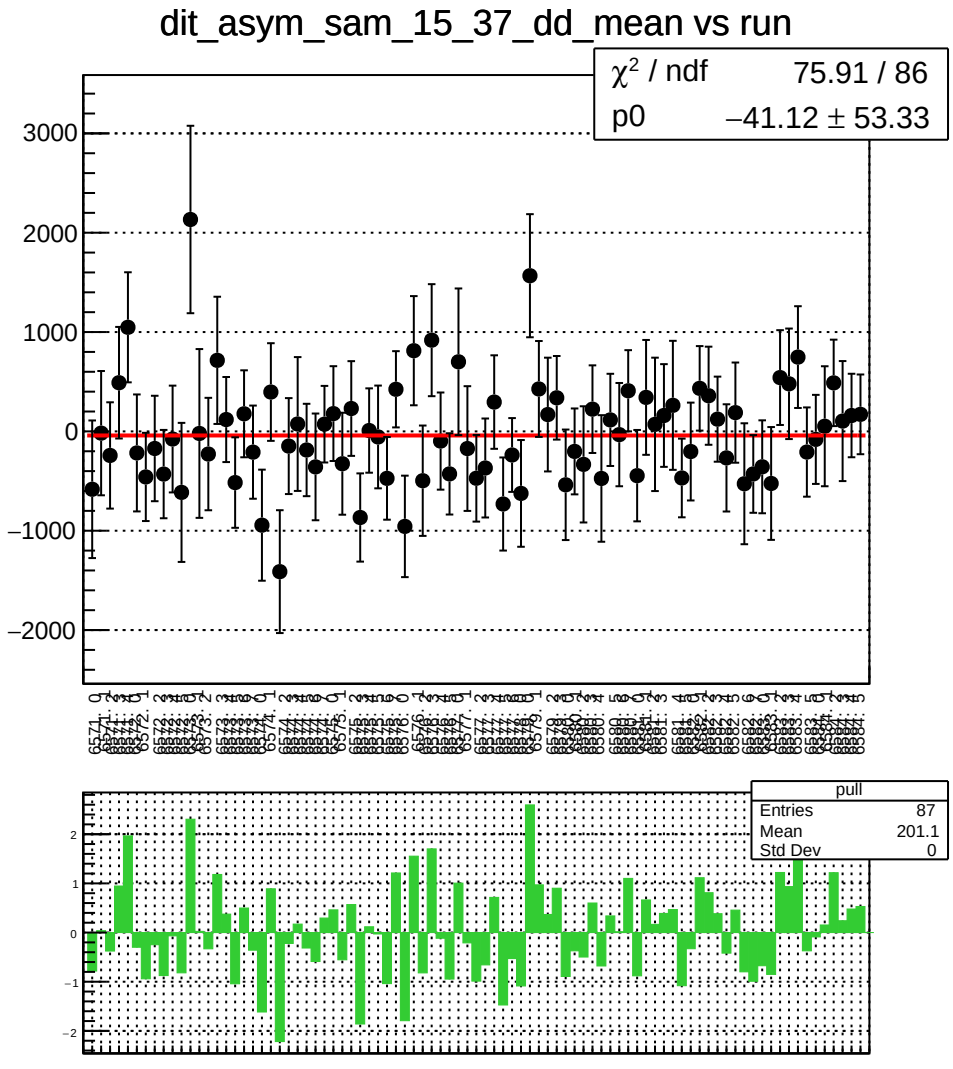

pull1D
Entries 87
Mean 0.005597
Std Dev 0.8281

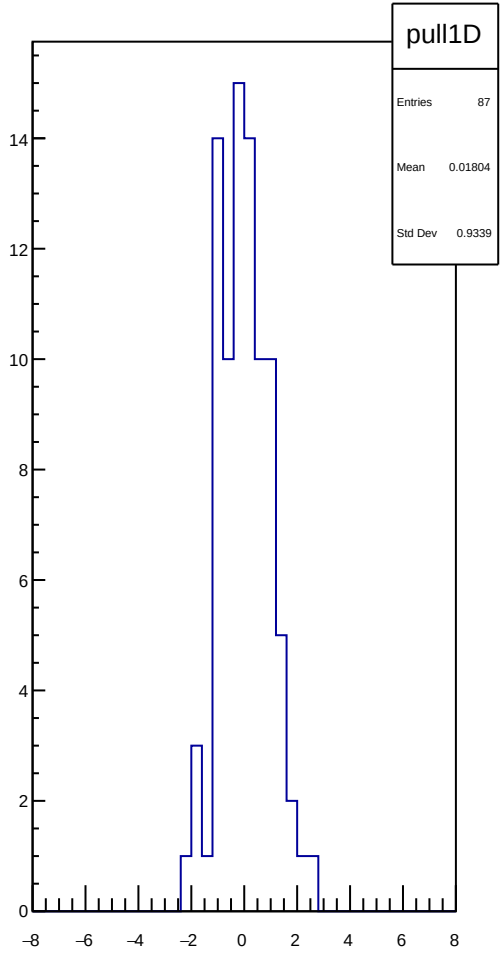

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.098e+04 / 86
p0 41.93 ± 0.03249
65
60
55
50
45
40
35

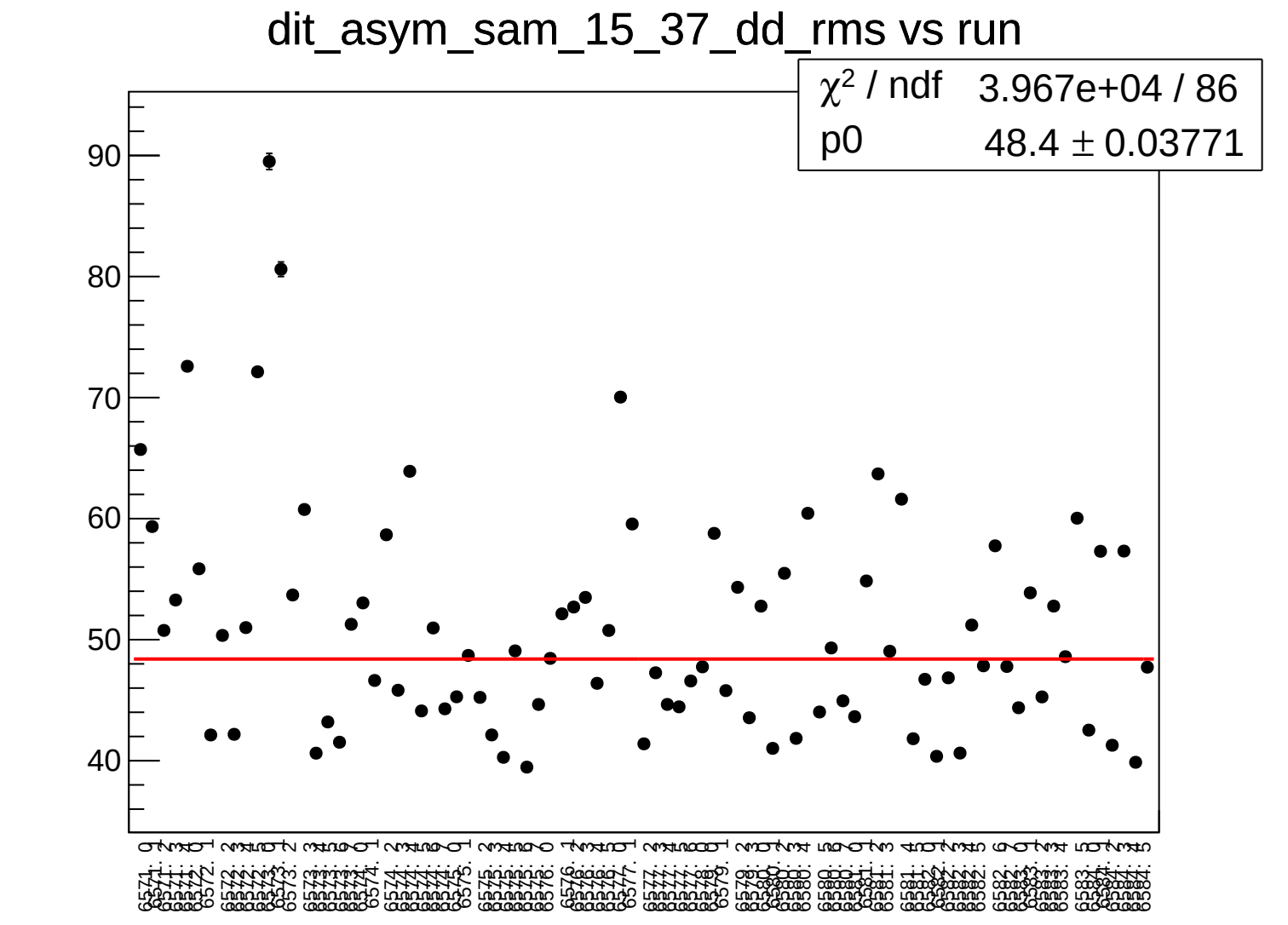

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 102 / 86
p0 720.9 ± 359.9
pull
Entries 87
Mean 422.4
Std Dev 0

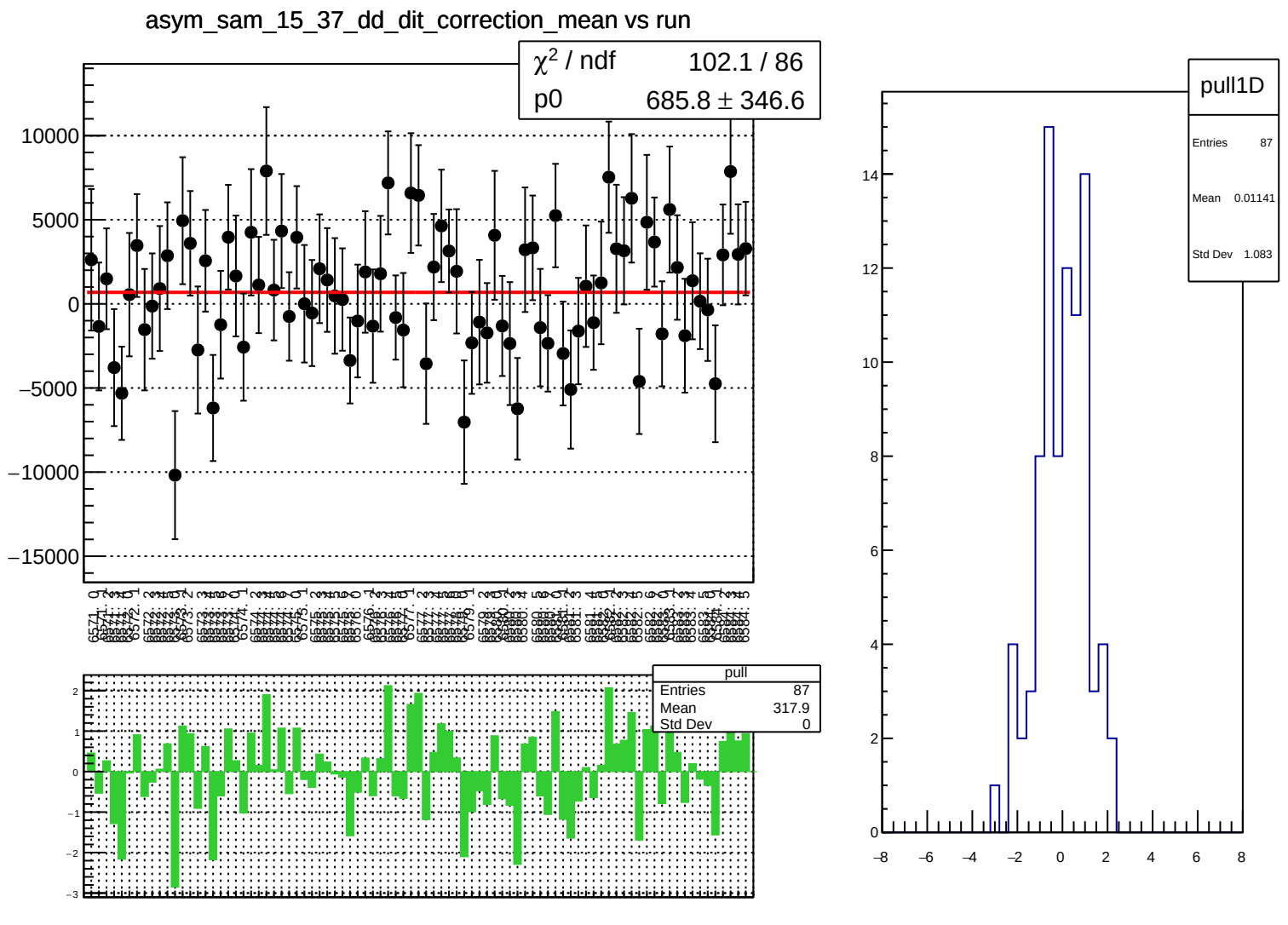

pull1D
Entries 87
Mean 0.007974
Std Dev 1.083

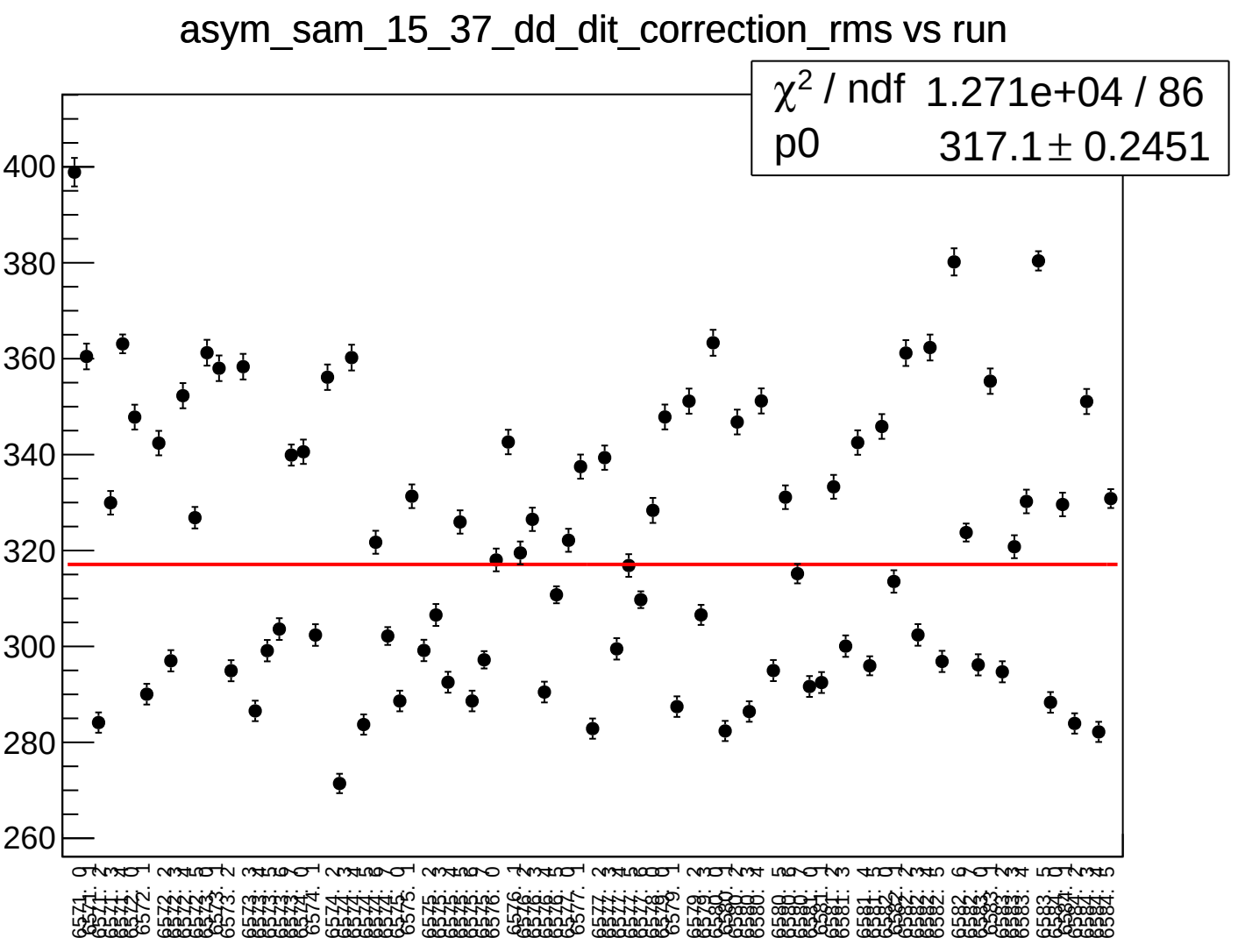

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.95e+04 / 86
p0 328.6 ± 0.2545
440
420
400
380
360
340
320
300
280
260

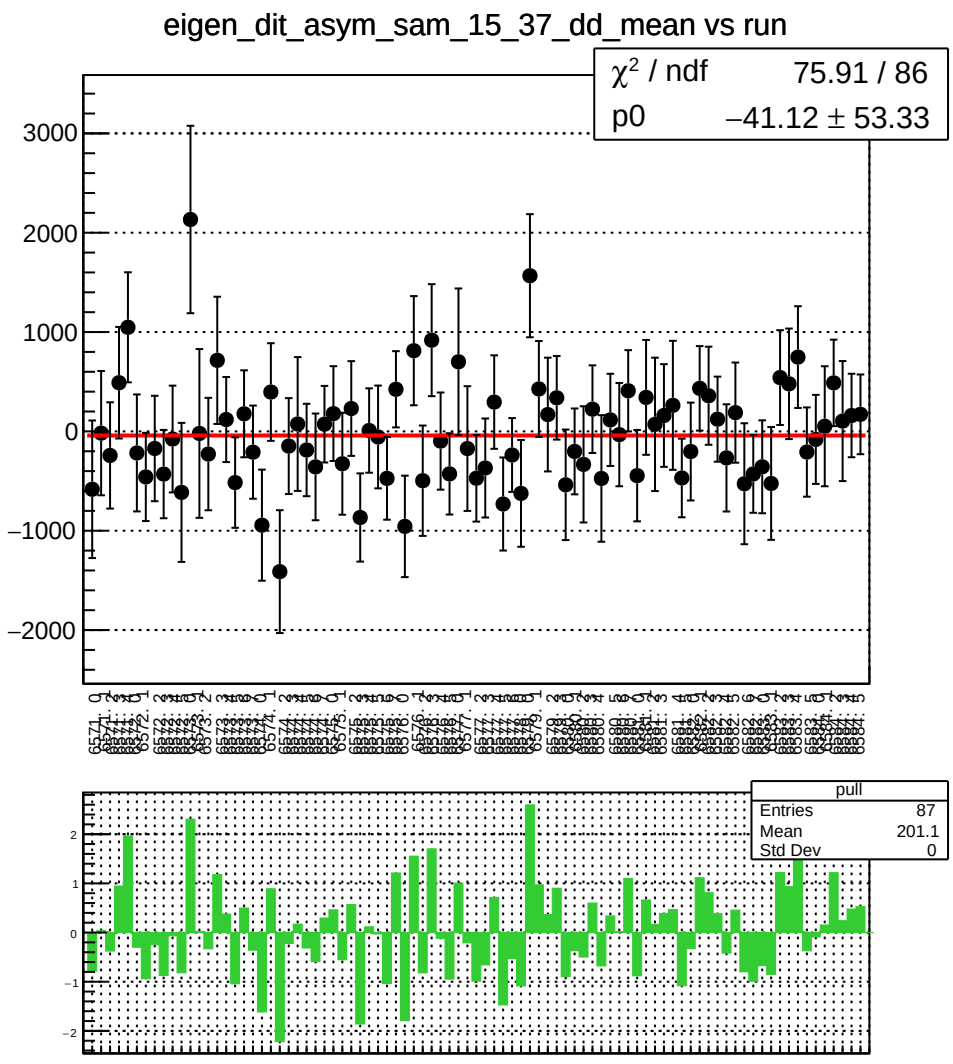

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 75.91 / 86
p0 −41.12 ± 53.33
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 201.1
Std Dev 0
2
1
0
−1
−2

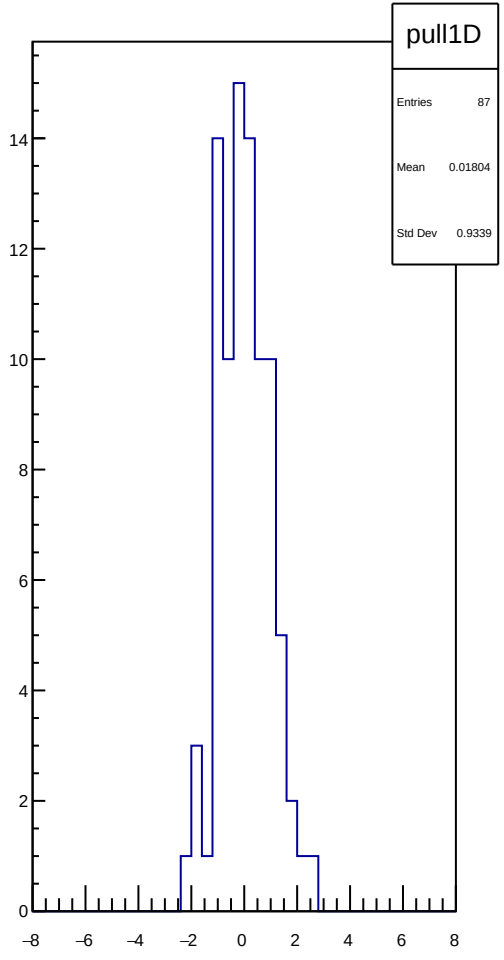

pull1D
Entries 87
Mean 0.01804
Std Dev 0.9339
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

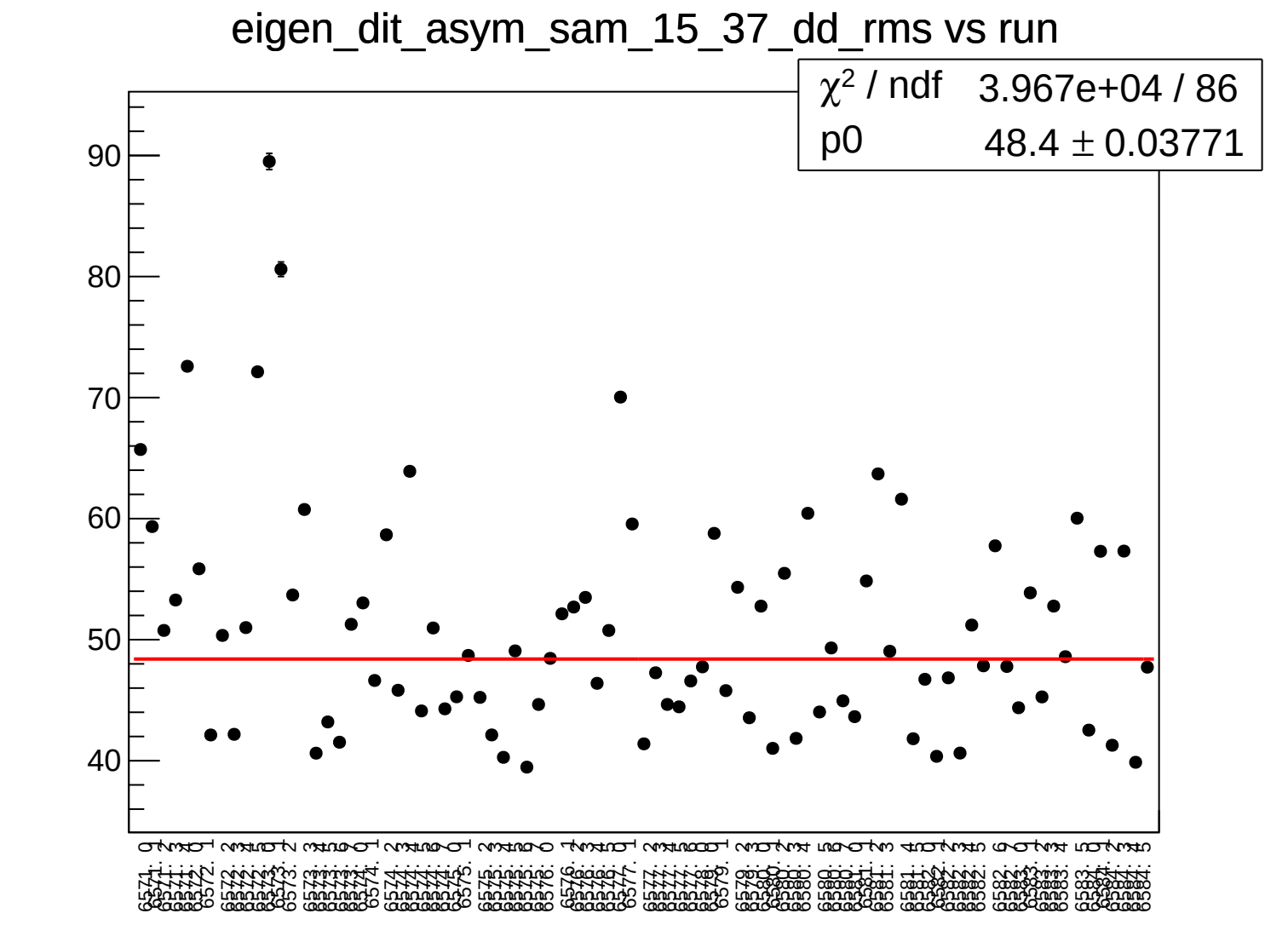

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 3.967e+04 / 86
p0 48.4 ± 0.03771
90
80
70
60
50
40

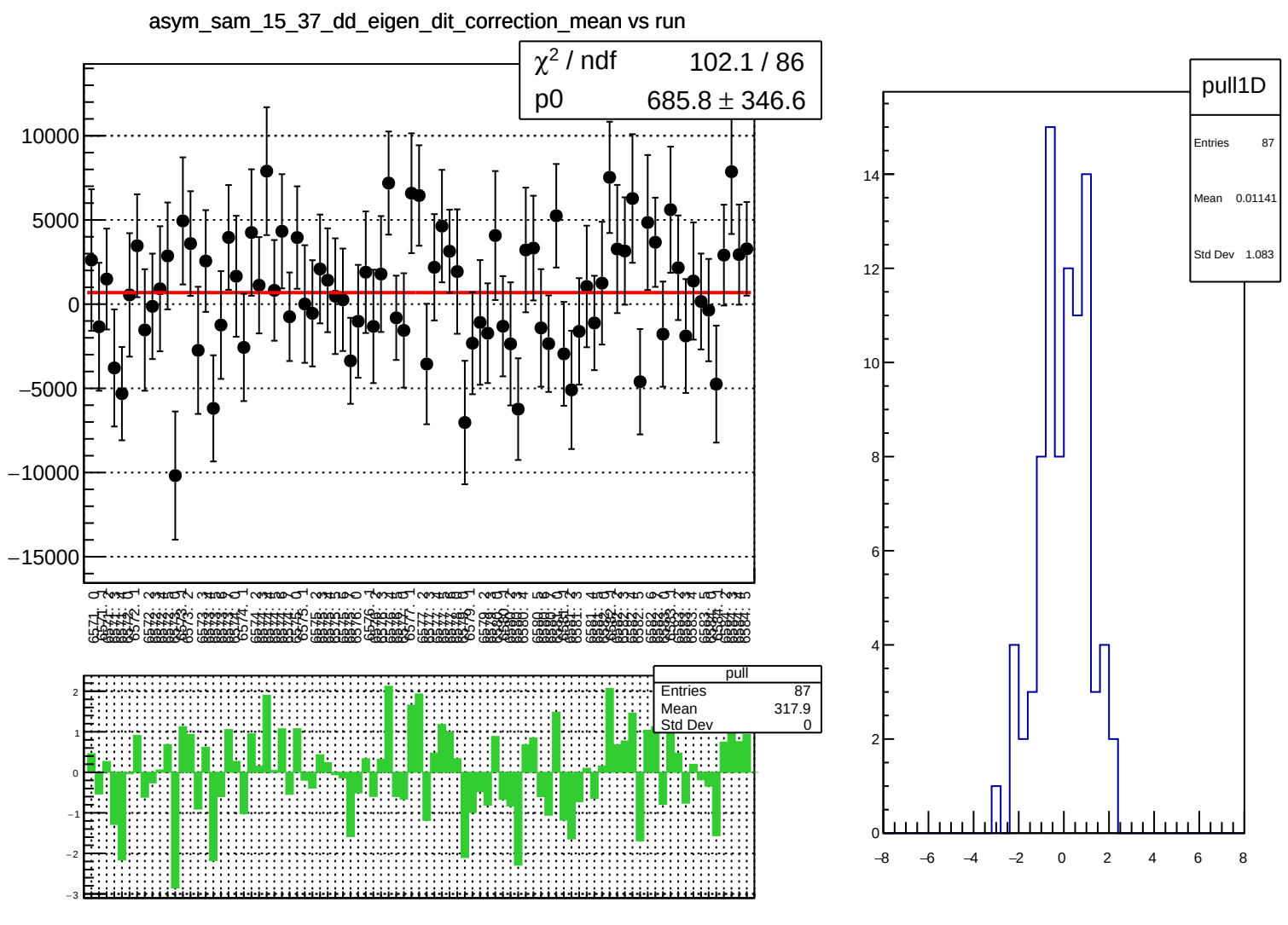

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 102.1 / 86
p0 685.8 ± 346.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 317.9
Std Dev 0
pull1D
Entries 87
Mean 0.01141
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

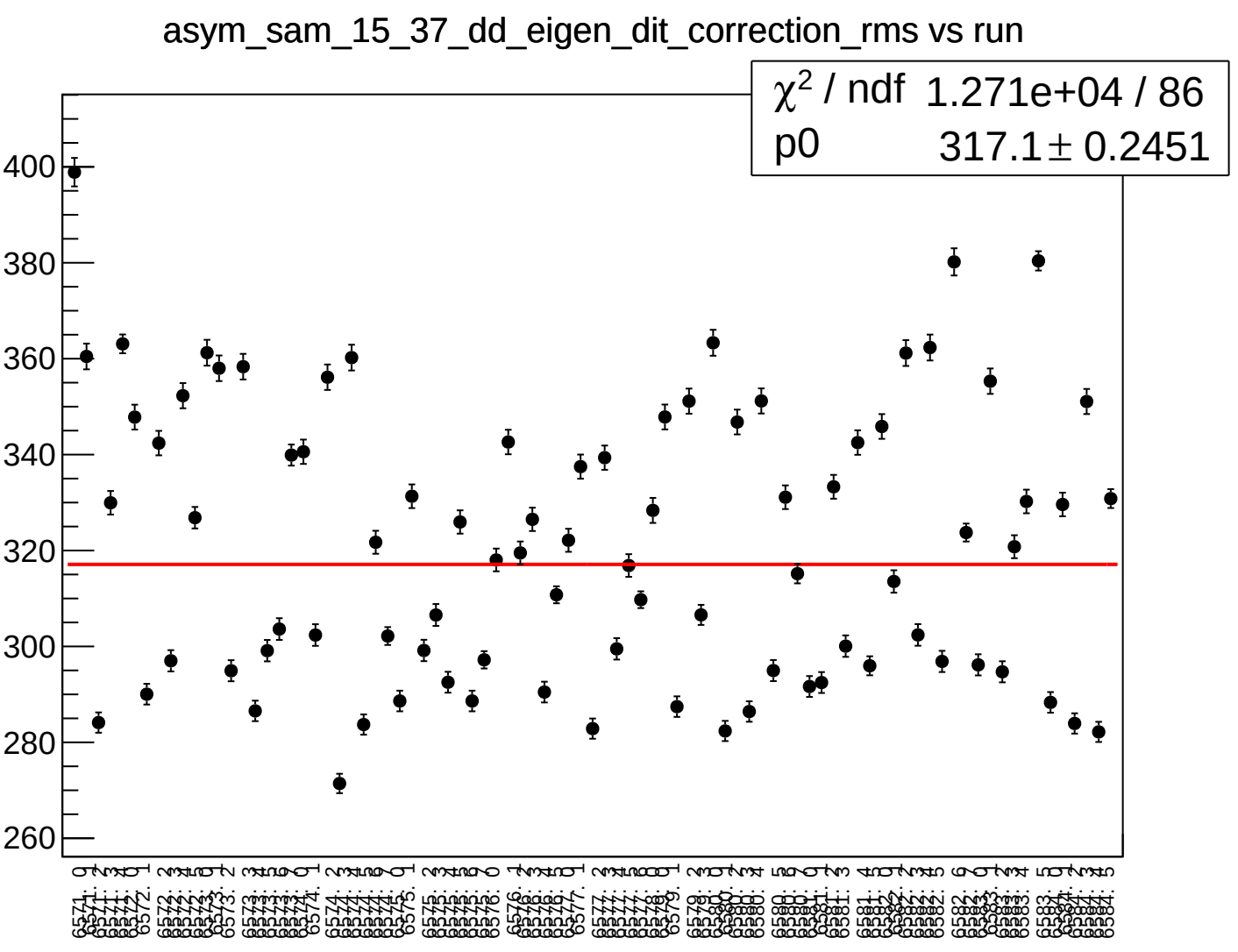

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.271e+04 / 86
p0 317.1 ± 0.2451
400
380
360
340
320
300
280
260

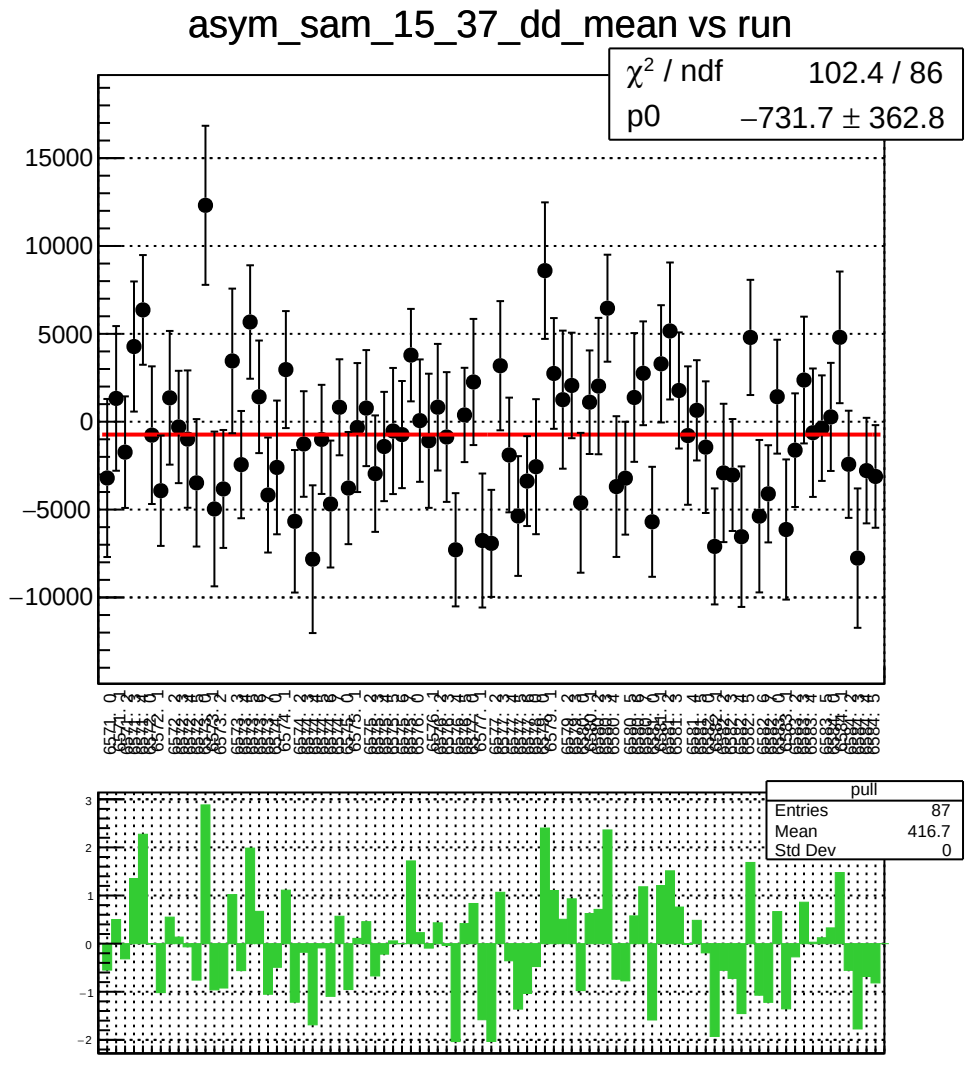

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 75.91 / 86
p0 −41.12 ± 53.33
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 201.1
Std Dev 0
2
1
0
−1
−2

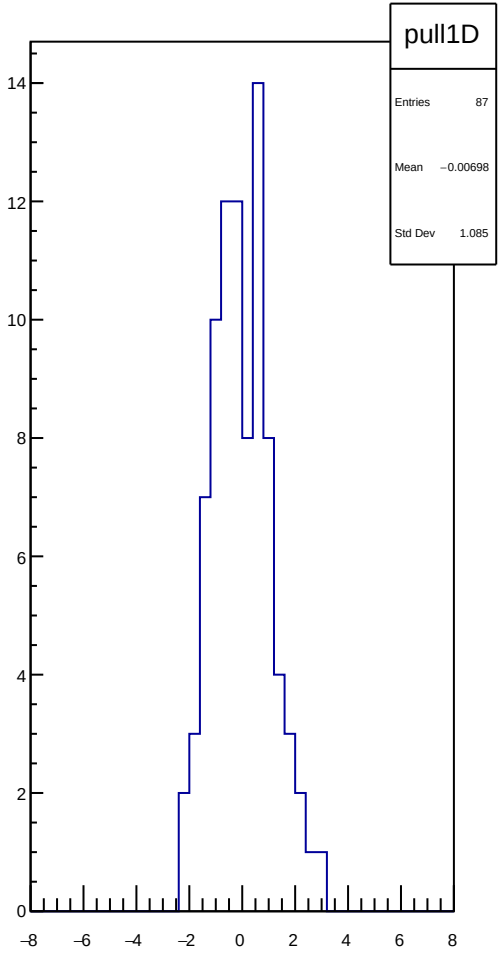

pull1D
Entries 87
Mean 0.01804
Std Dev 0.9339
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

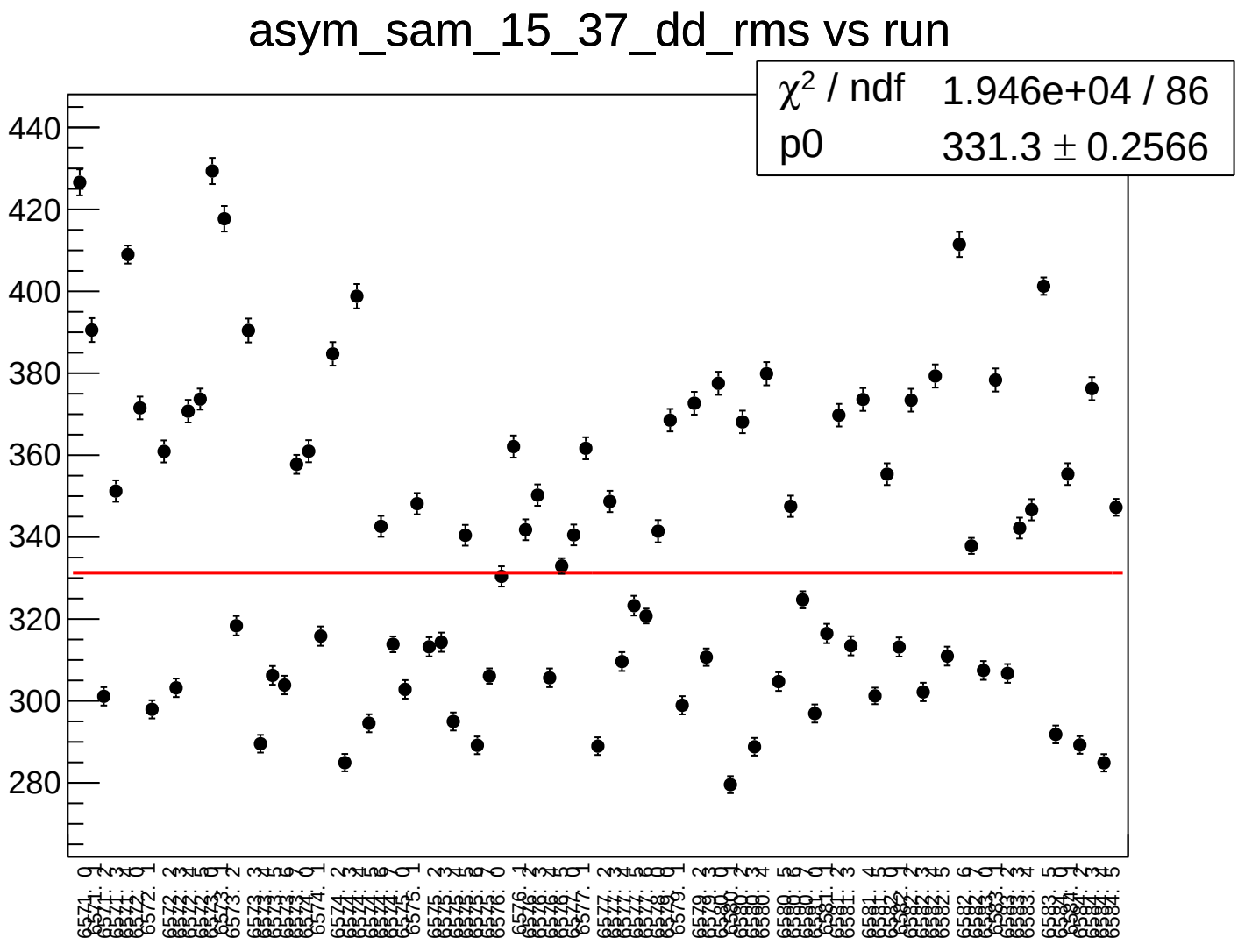

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.967e+04 / 86
p0 48.4 ± 0.03771
90
80
70
60
50
40

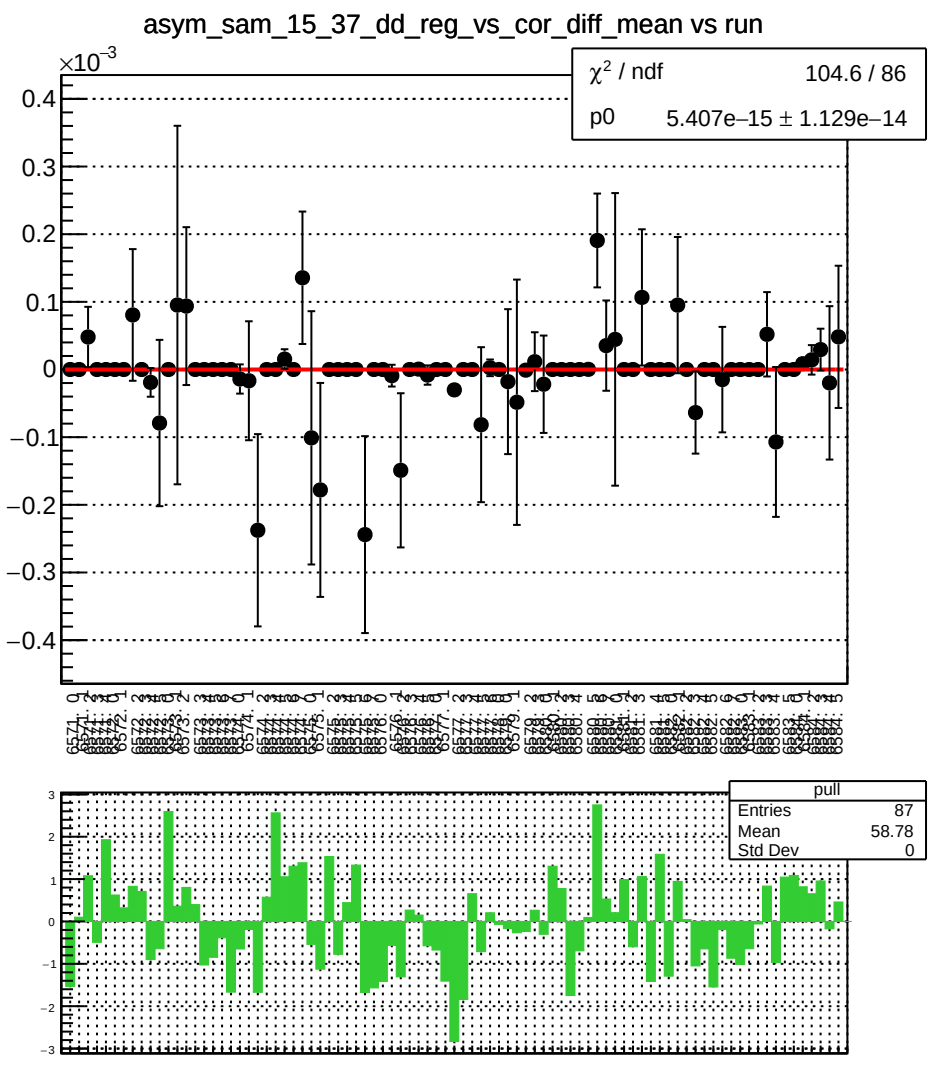

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.1 / 86
p0 685.8 ± 346.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 317.9
Std Dev 0
pull1D
Entries 87
Mean 0.01141
Std Dev 1.083

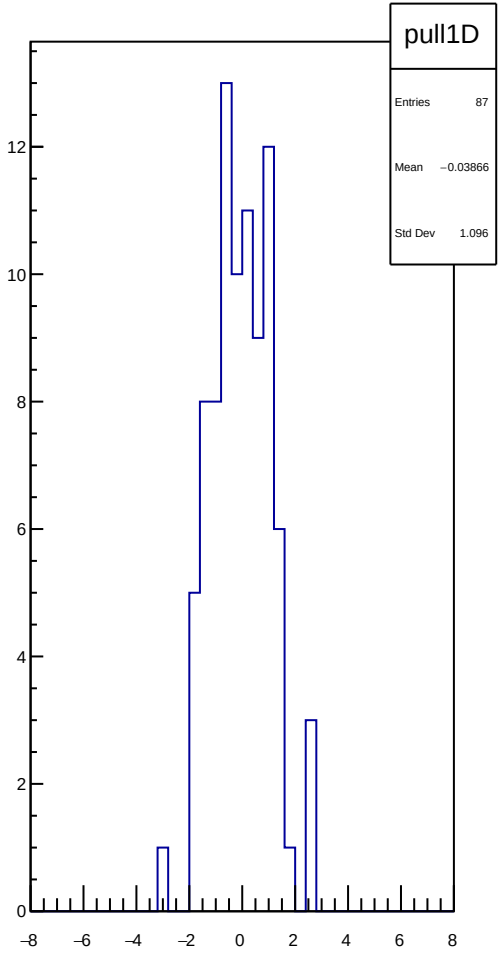

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.271e+04 / 86
p0 317.1 ± 0.2451
400
380
360
340
320
300
280
260

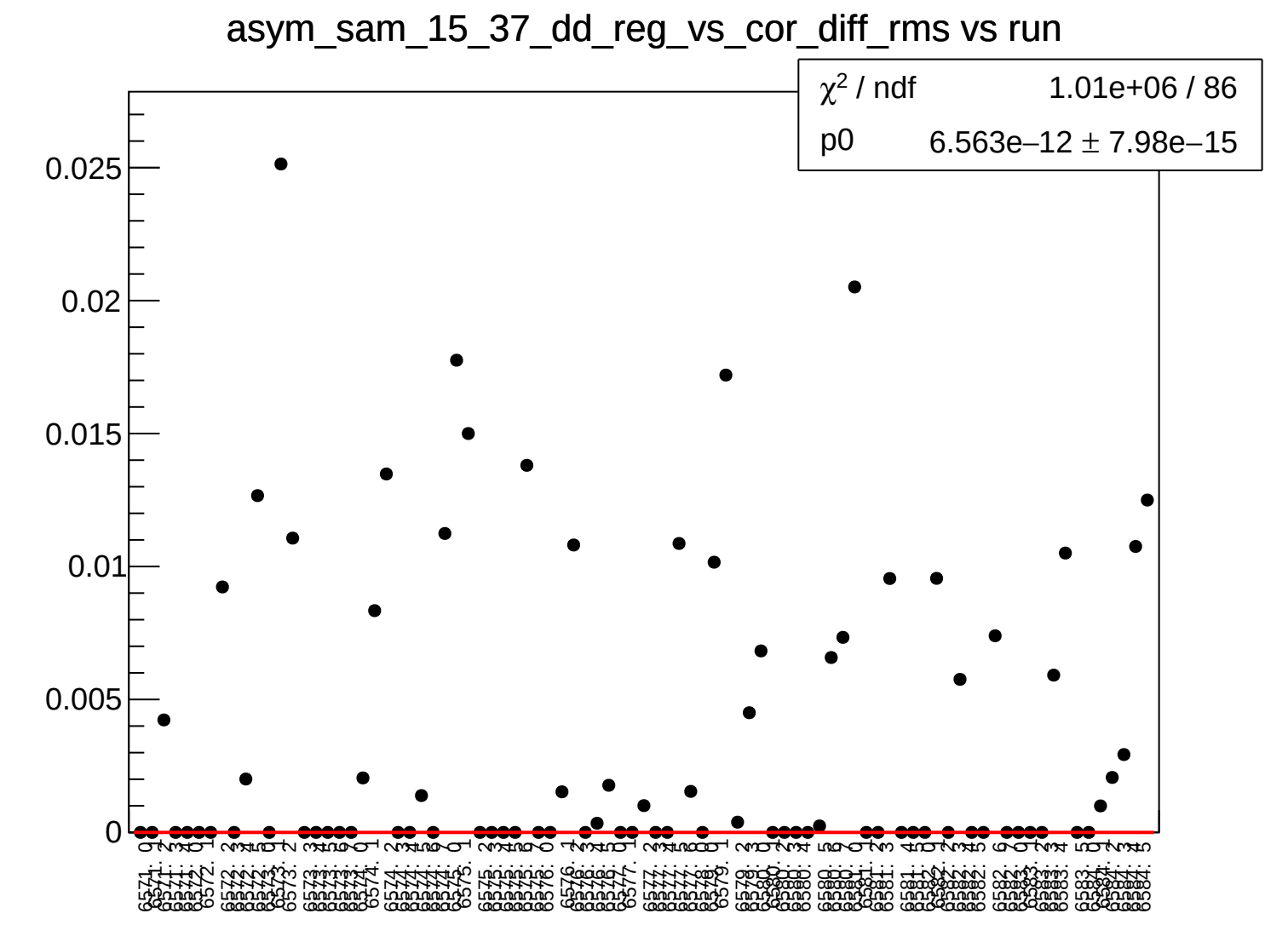

asym_sam_15_37_dd_mean vs run
χ² / ndf 102.4 / 86
p0 −731.7 ± 362.8
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 416.7
Std Dev 0
3
2
1
0
−1
−2

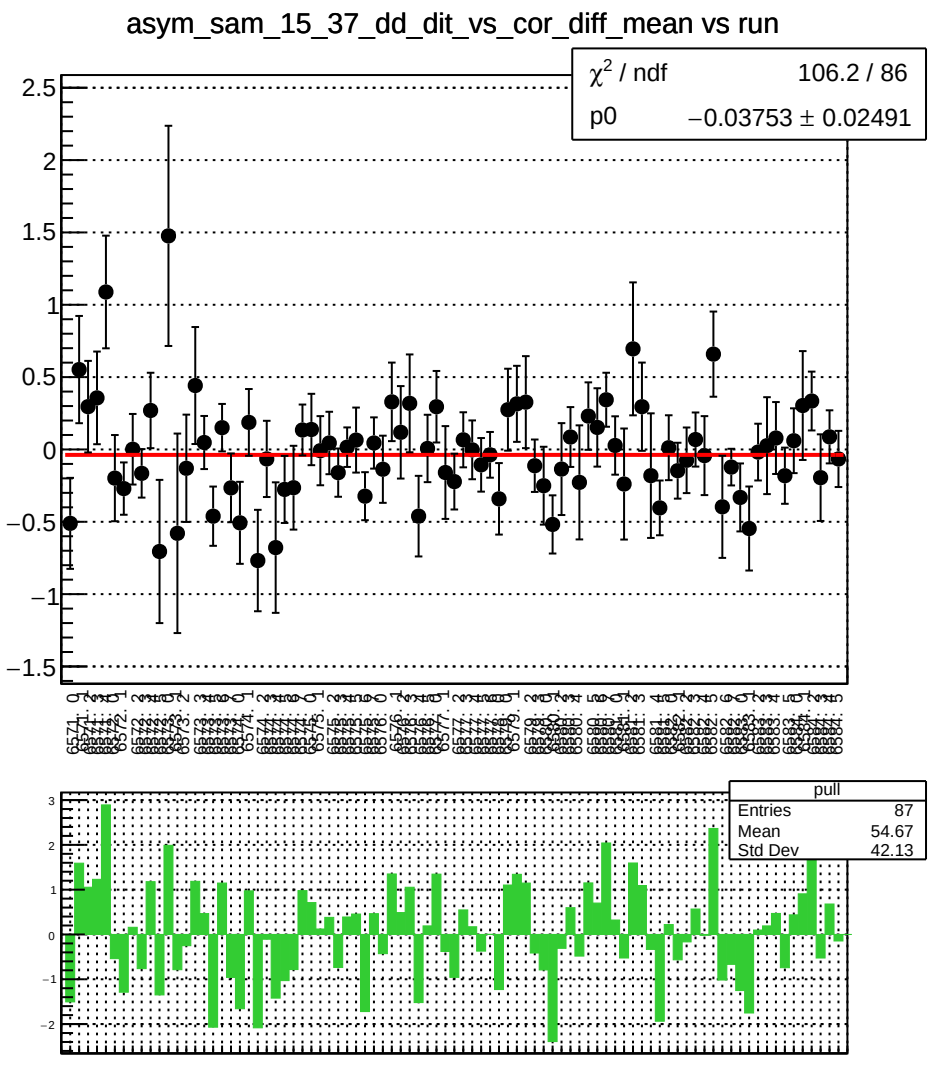

pull1D
Entries 87
Mean −0.00698
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

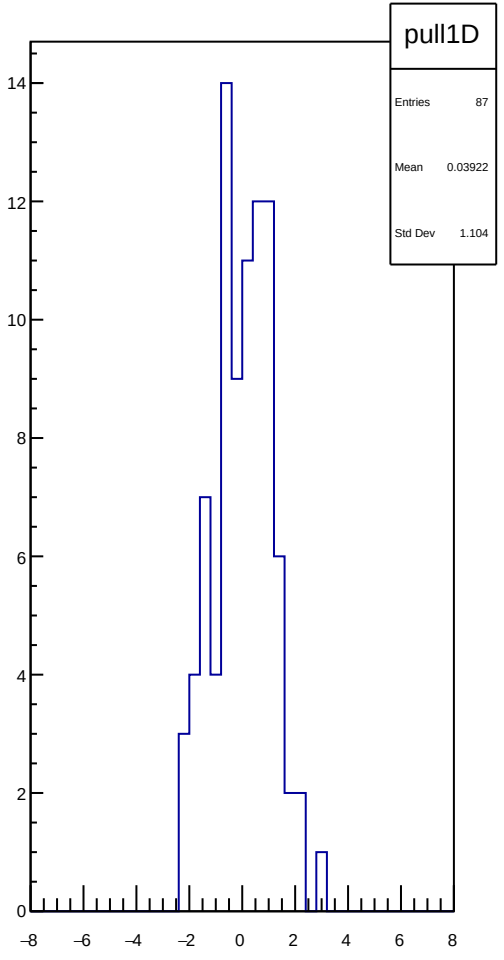

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.946e+04 / 86
p0 331.3 ± 0.2566
440
420
400
380
360
340
320
300
280

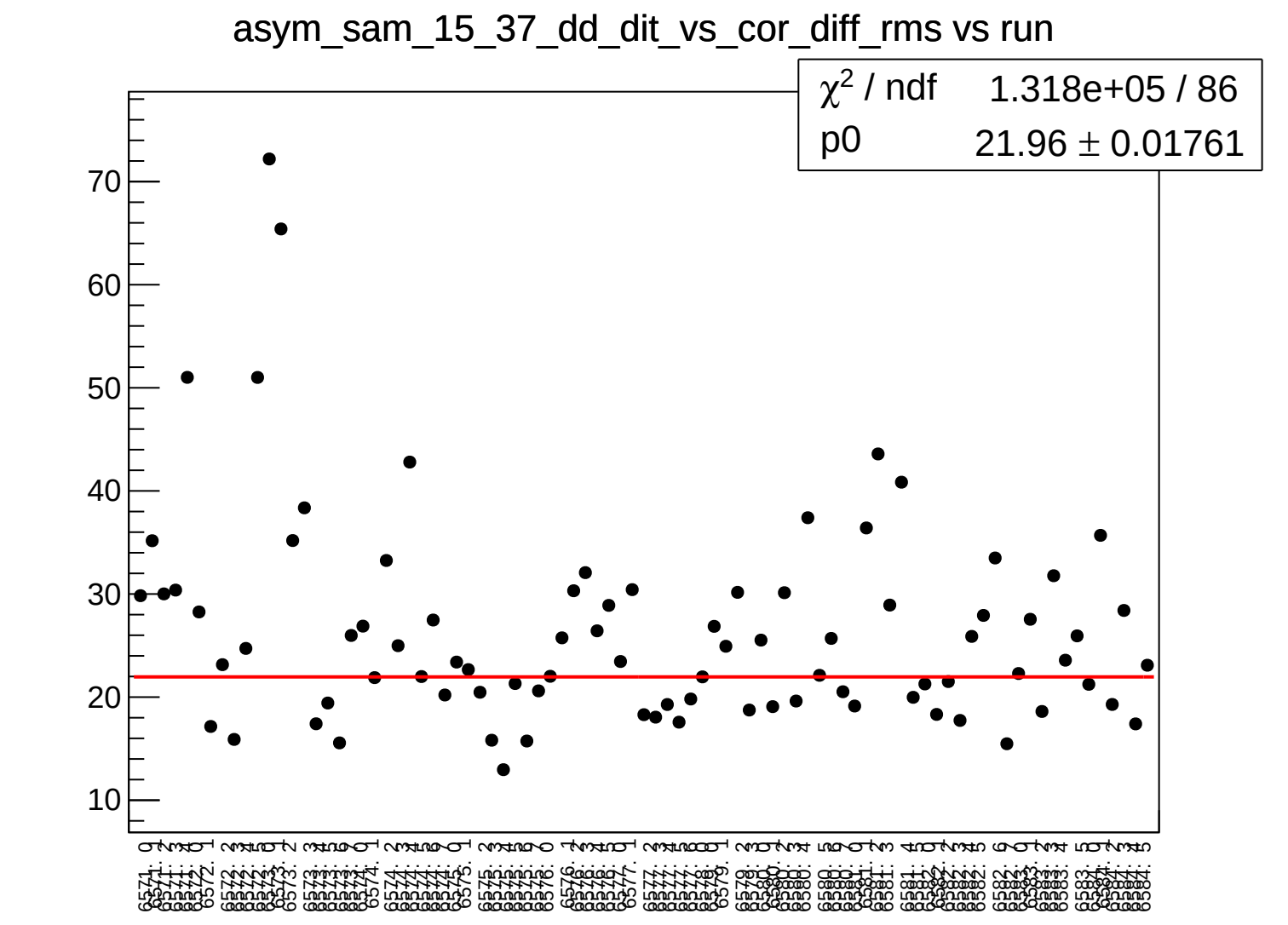

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 104.6 / 86
p0 5.407e−15 ± 1.129e−14
pull
Entries 87
Mean 58.78
Std Dev 0

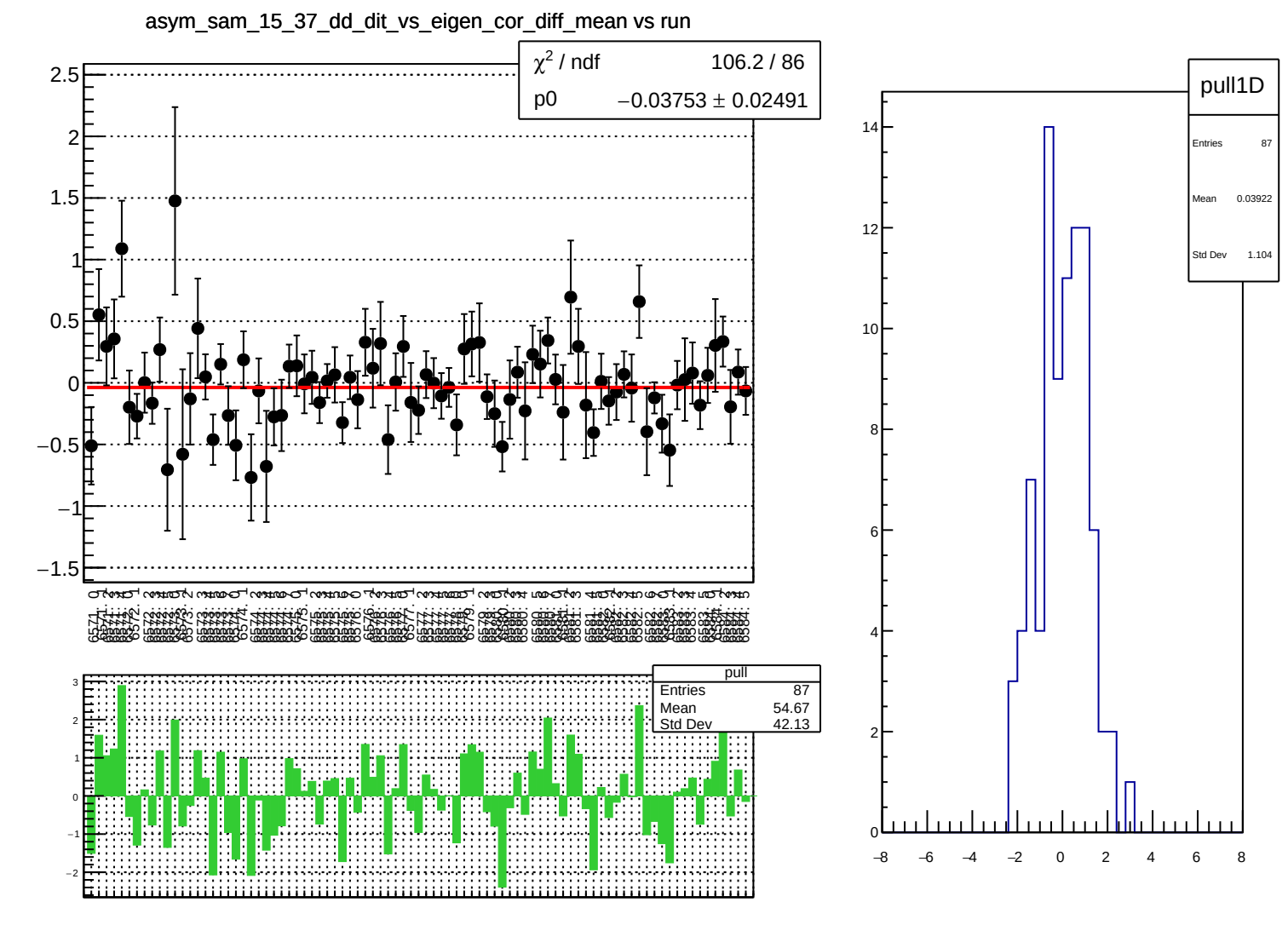

pull1D
Entries 87
Mean −0.03866
Std Dev 1.096

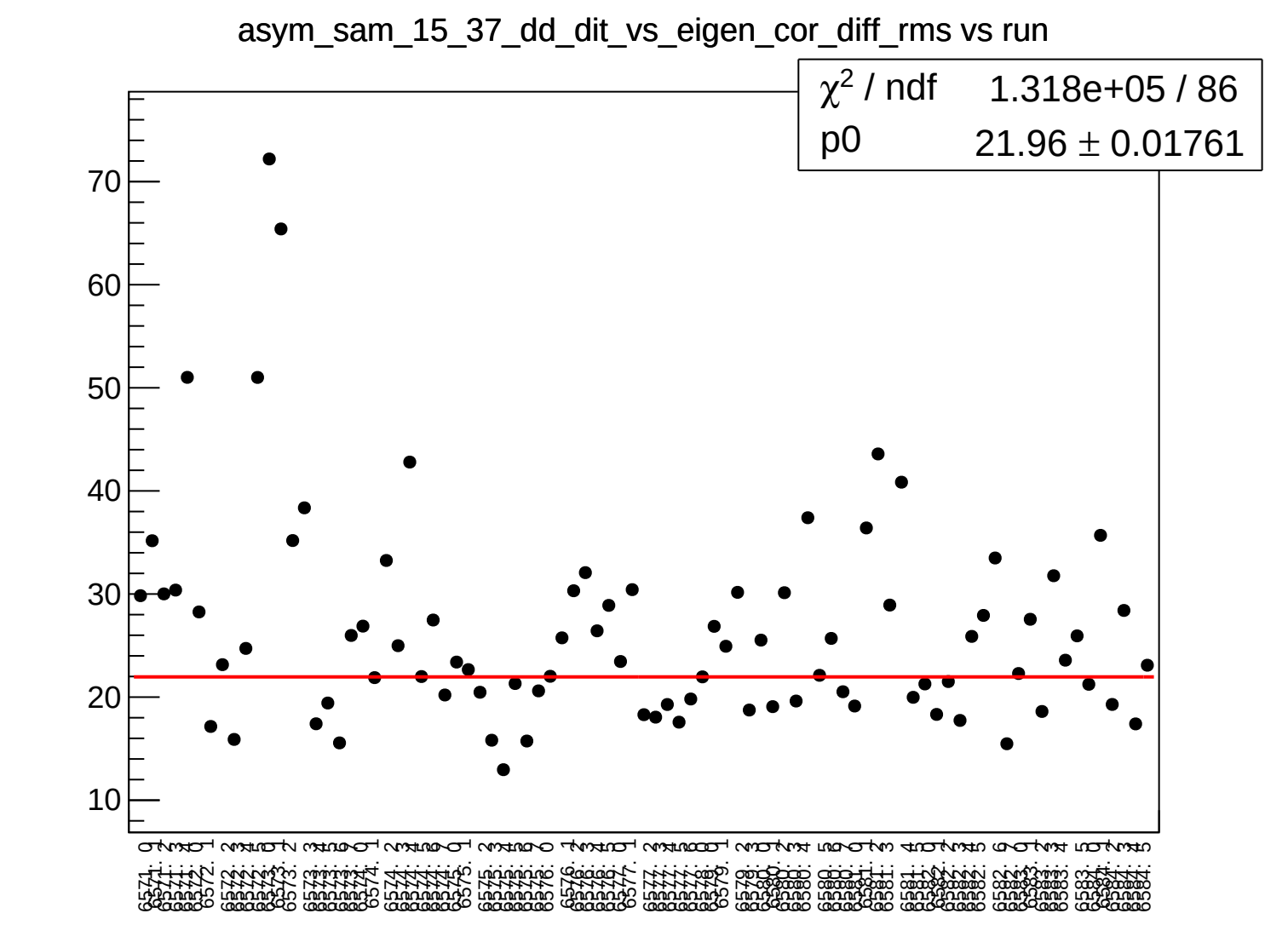

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.01e+06 / 86
p0 6.563e−12 ± 7.98e−15
0.025
0.02
0.015
0.01
0.005
0

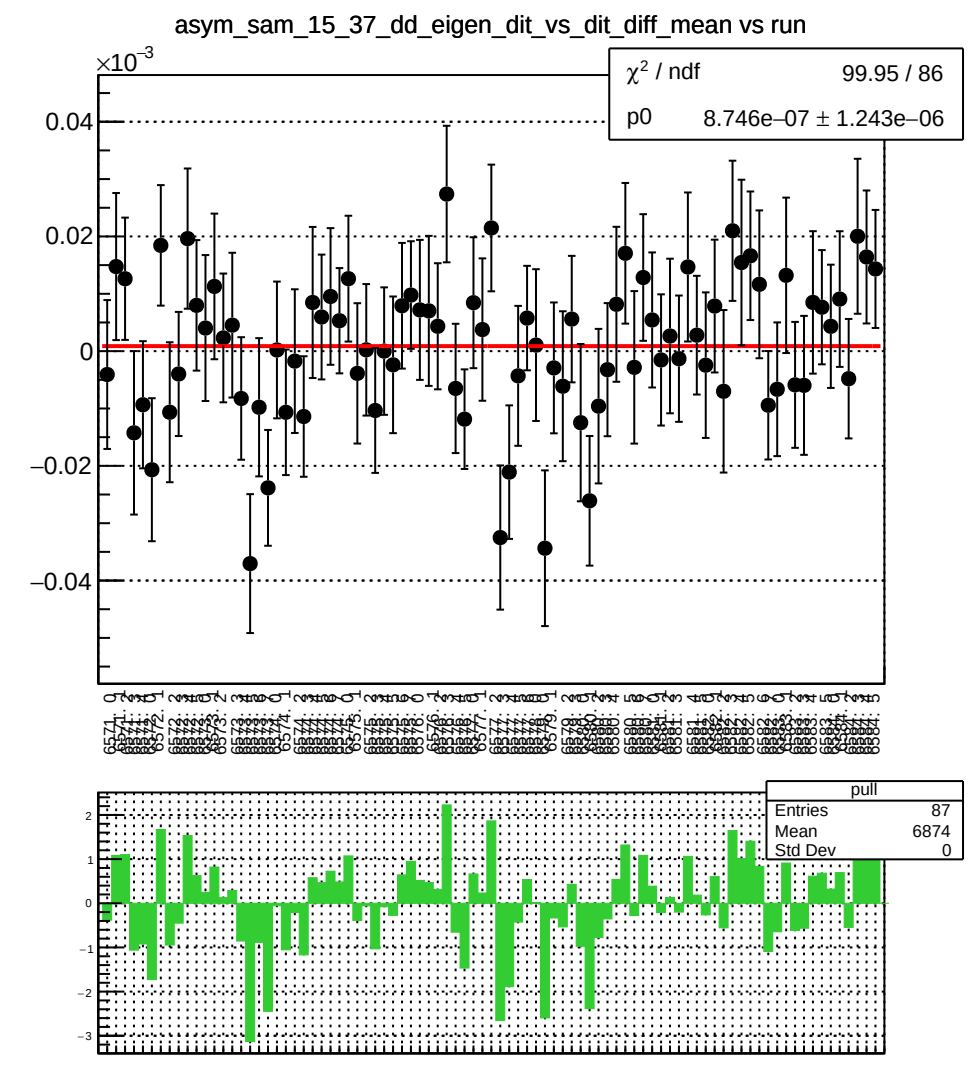

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 86
p0 −0.03753 ± 0.02491
pull
Entries 87
Mean 54.67
Std Dev 42.13

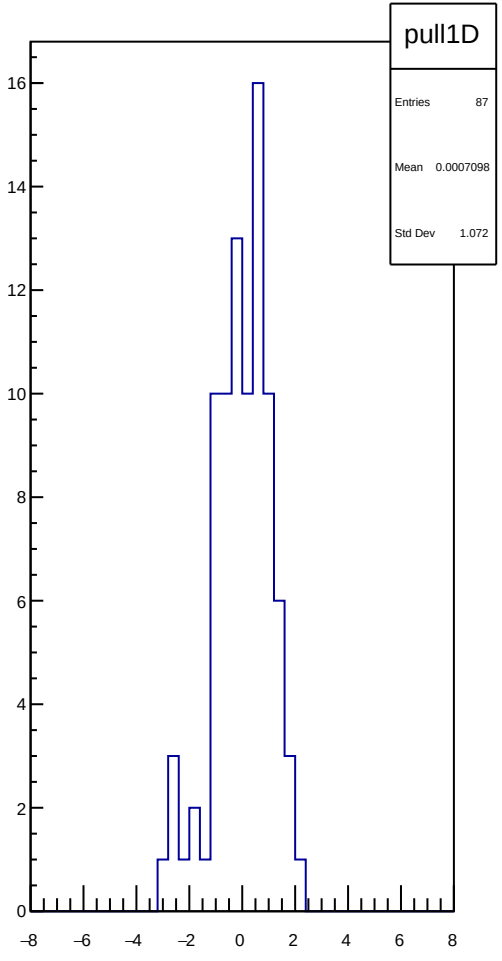

pull1D
Entries 87
Mean 0.03922
Std Dev 1.104

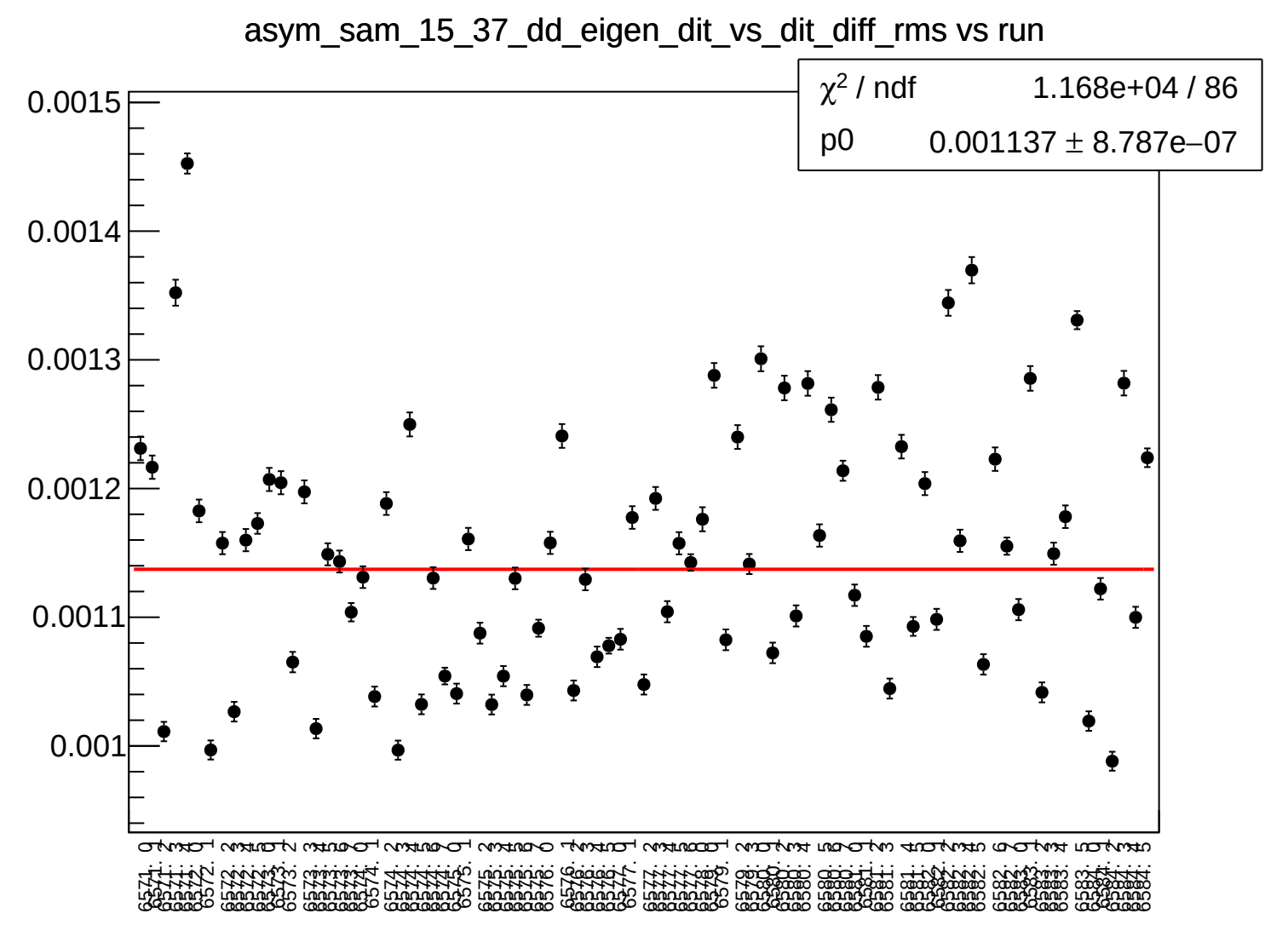

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.318e+05 / 86
p0 21.96 ± 0.01761
70
60
50
40
30
20
10

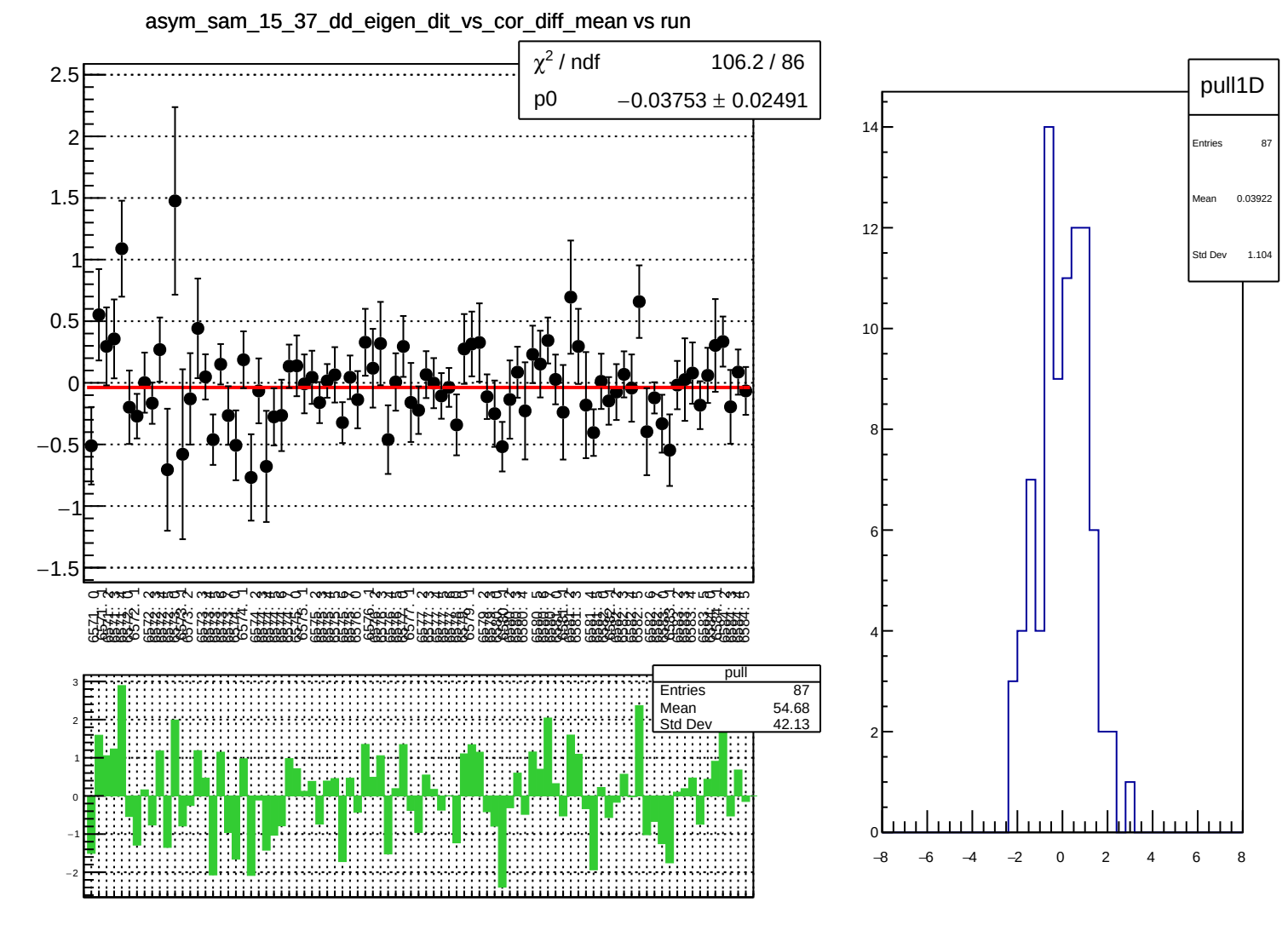

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 86
p0 −0.03753 ± 0.02491
pull
Entries 87
Mean 54.67
Std Dev 42.13
pull1D
Entries 87
Mean 0.03922
Std Dev 1.104

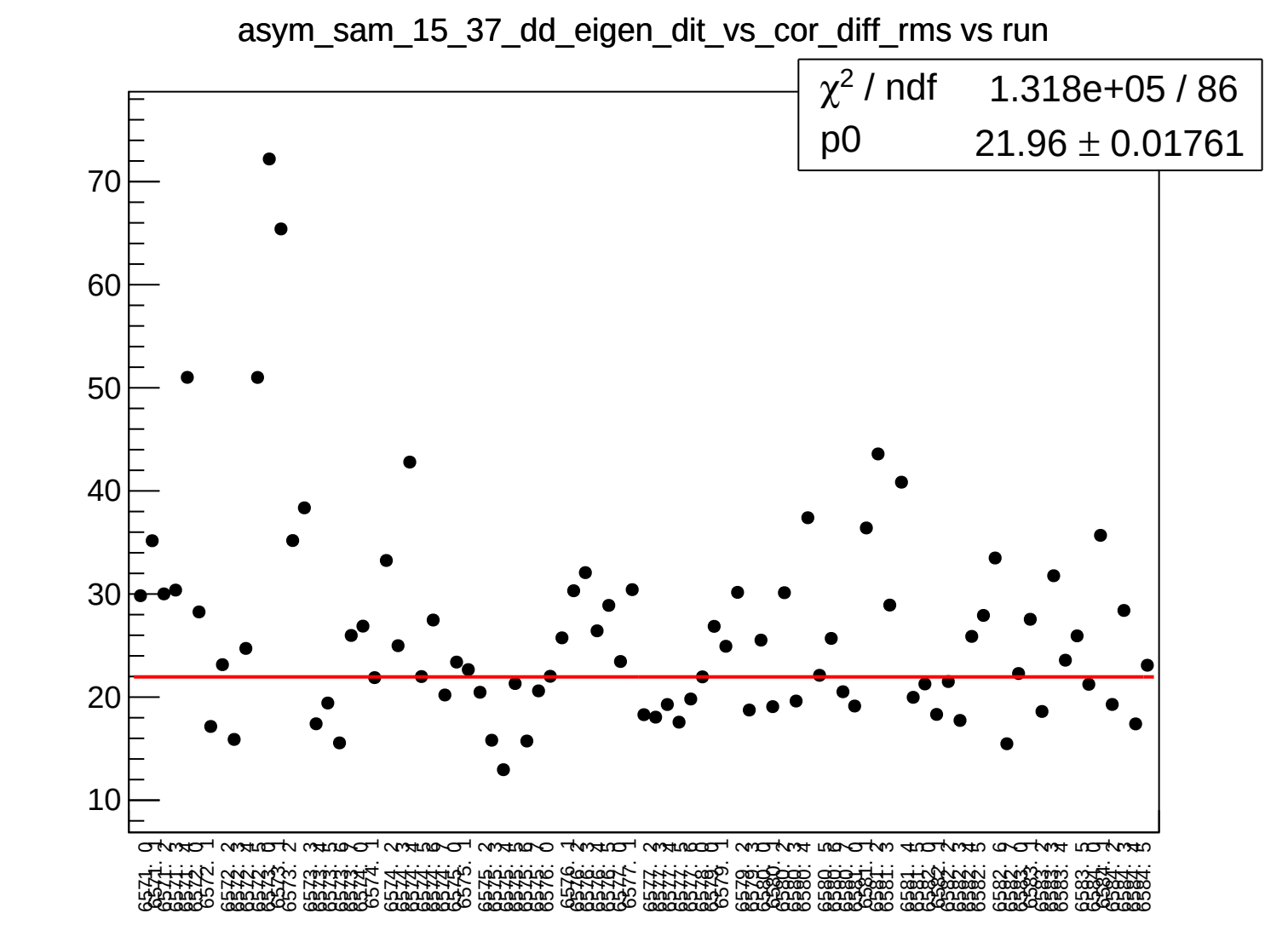

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.318e+05 / 86
p0 21.96 ± 0.01761
70
60
50
40
30
20
10

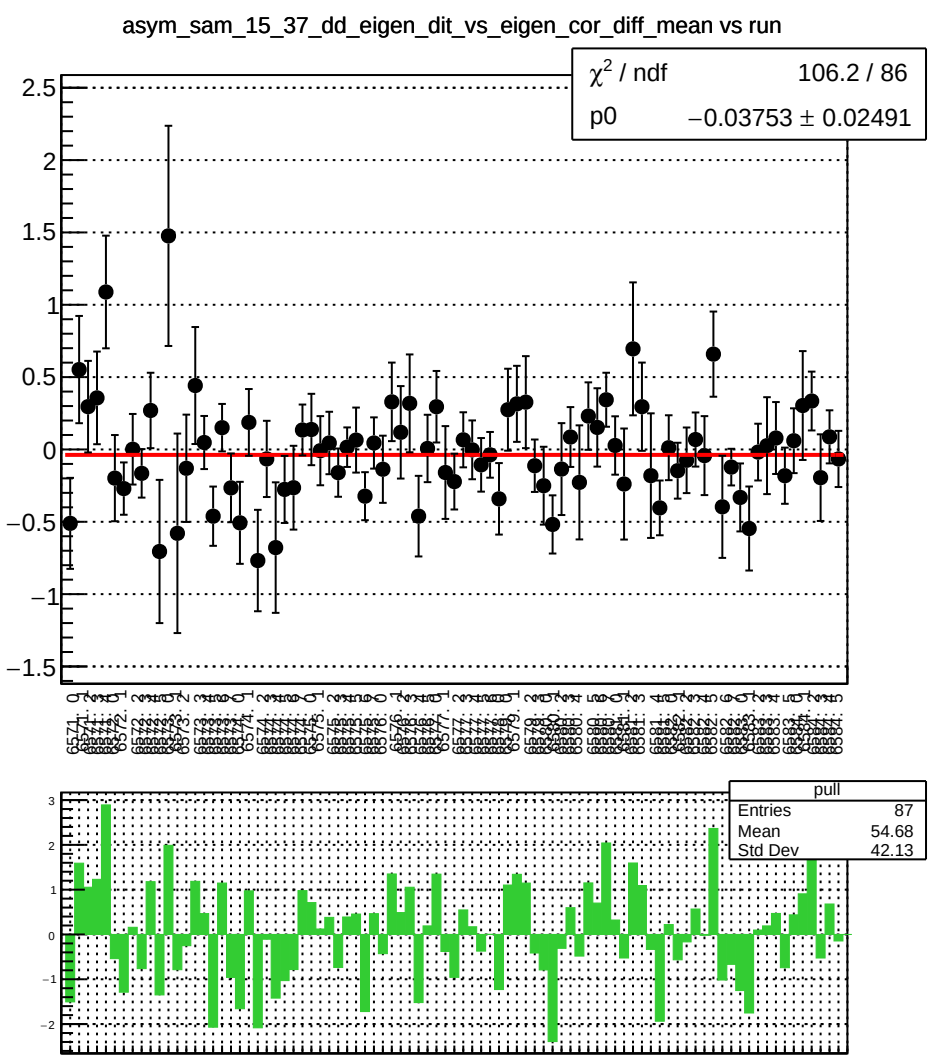

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.95 / 86
p0 8.746e−07 ± 1.243e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 87
Mean 6874
Std Dev 0
2
1
0
−1
−2
−3

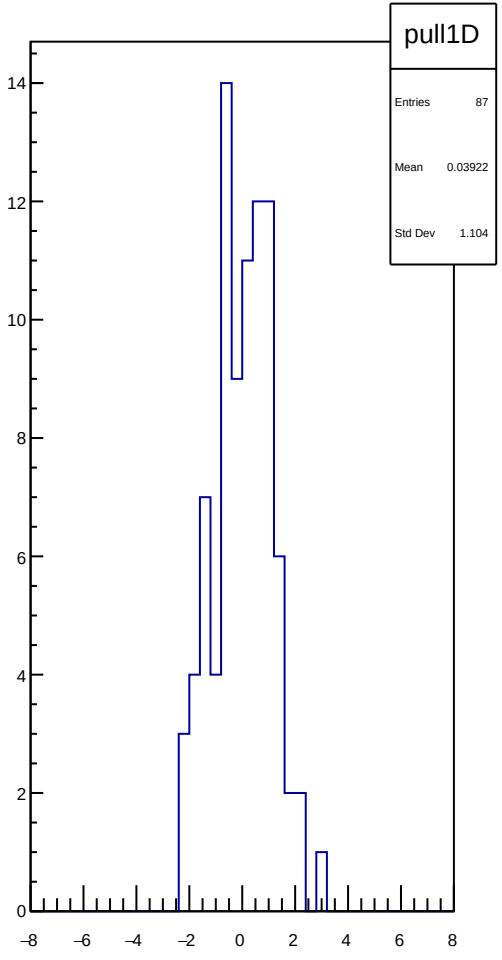

pull1D
Entries 87
Mean 0.0007098
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

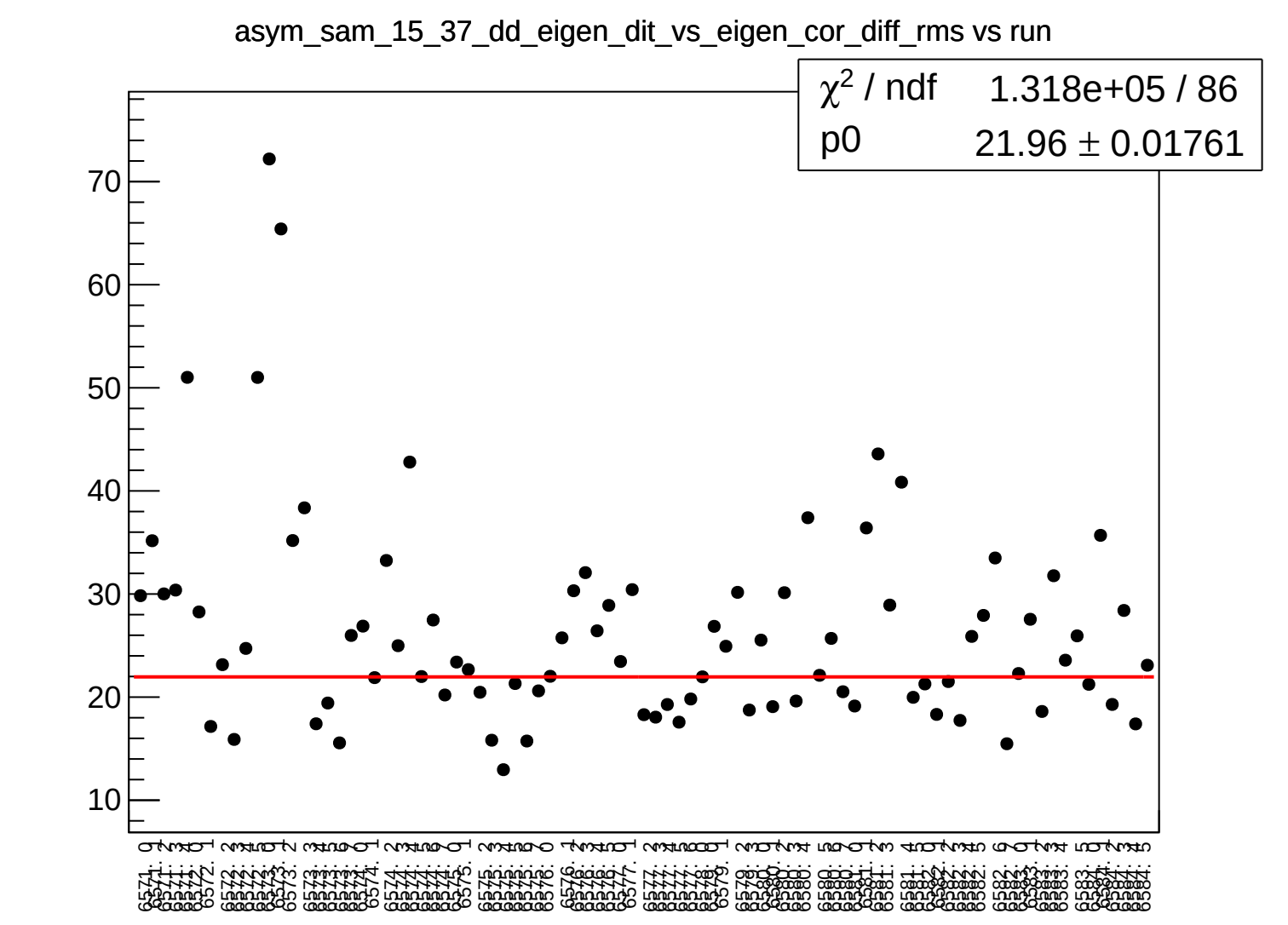

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.168e+04 / 86
p0 0.001137 ± 8.787e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001

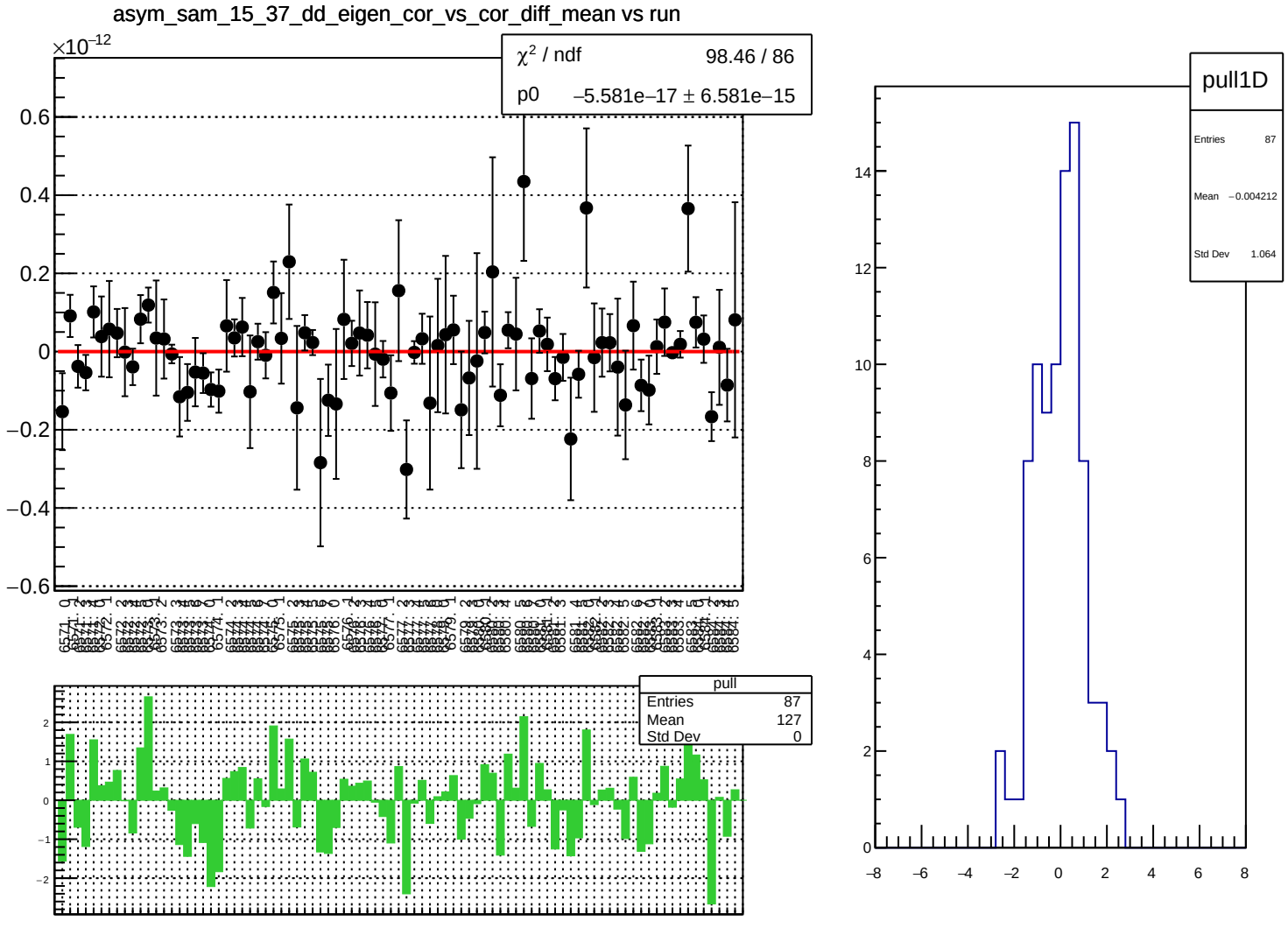

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 86
p0 −0.03753 ± 0.02491
pull
Entries 87
Mean 54.68
Std Dev 42.13
pull1D
Entries 87
Mean 0.03922
Std Dev 1.104

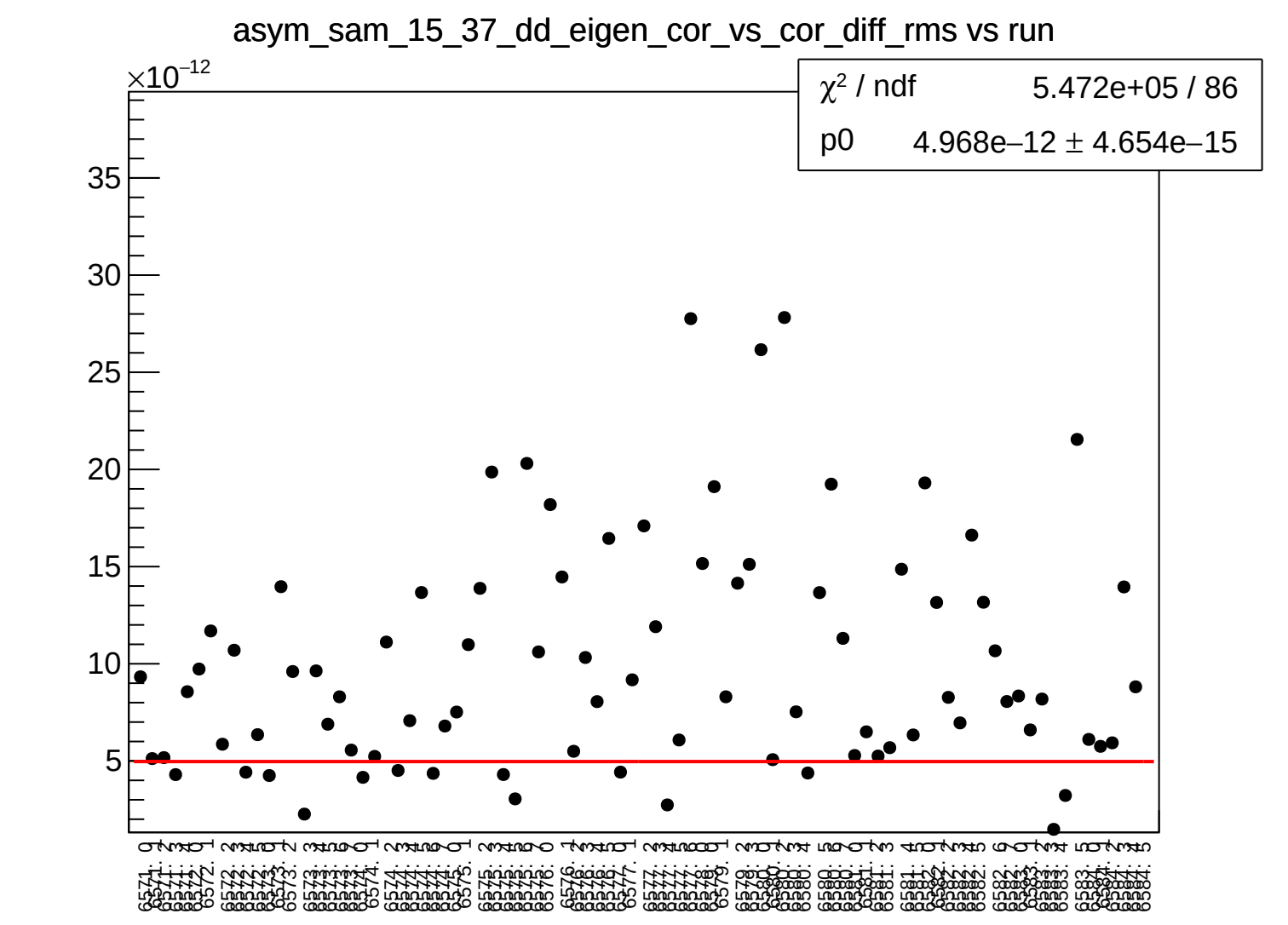

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.318e+05 / 86
p0 21.96 ± 0.01761
70
60
50
40
30
20
10

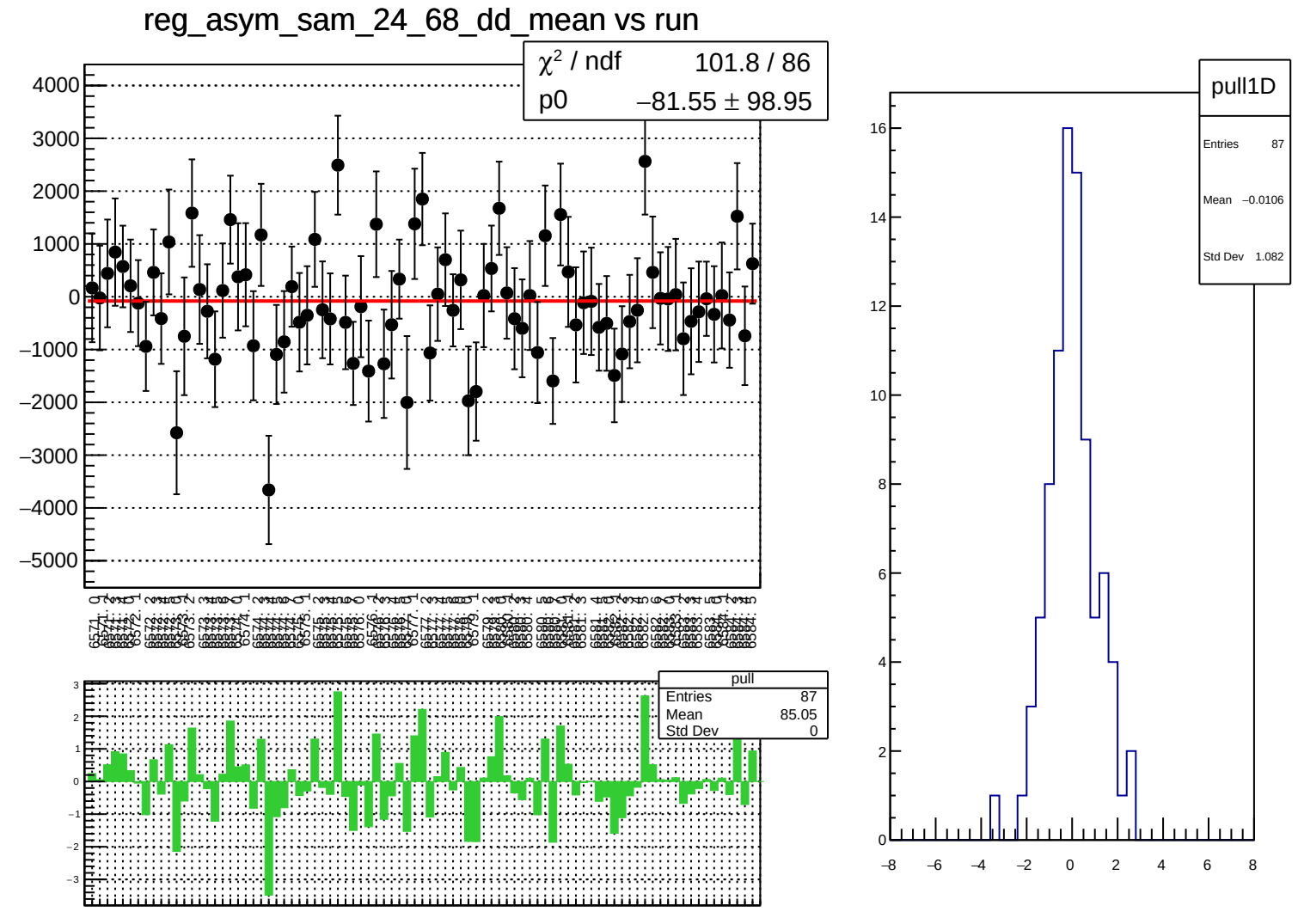

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 86
p0 −0.03753 ± 0.02491
pull
Entries 87
Mean 54.68
Std Dev 42.13

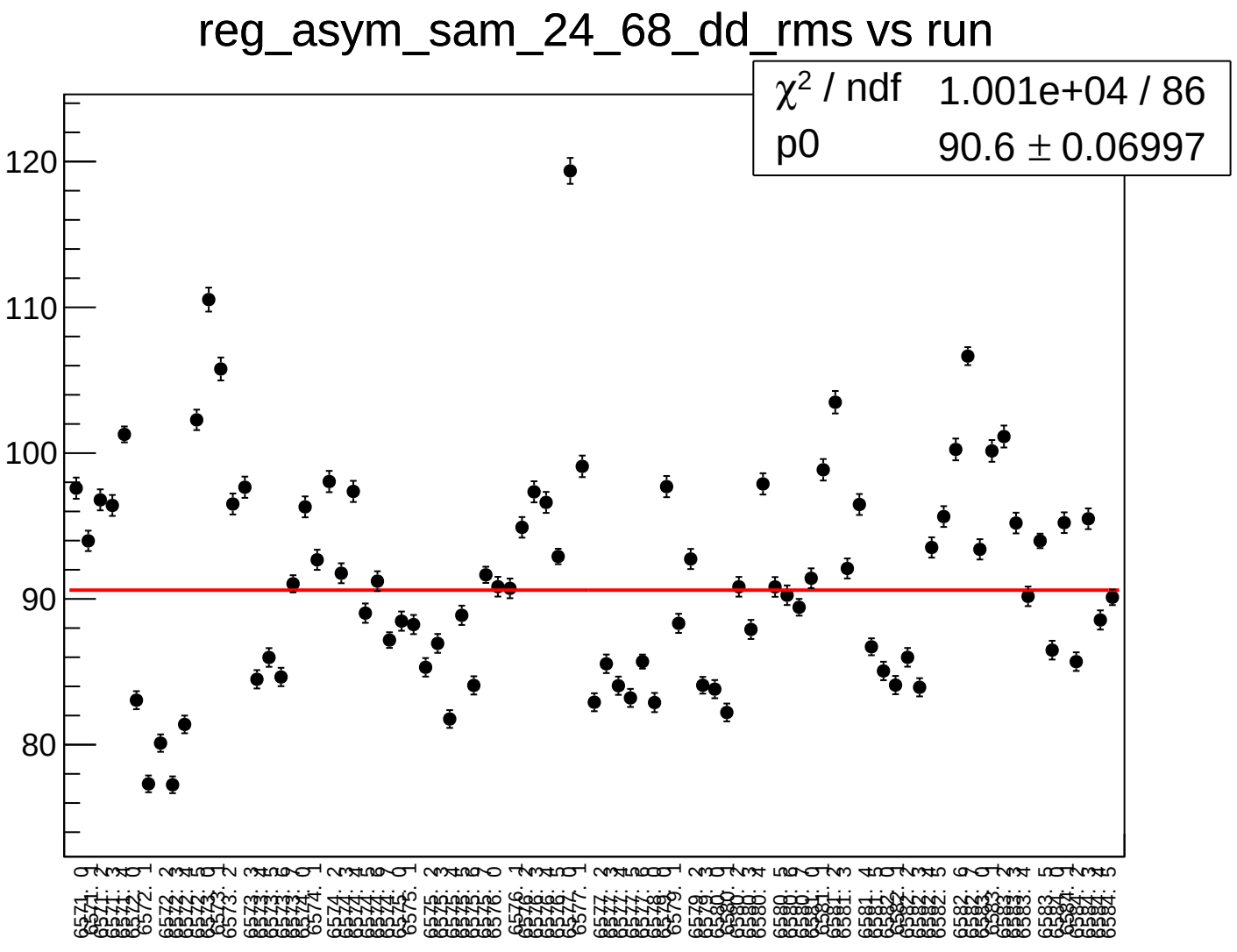

pull1D
Entries 87
Mean 0.03922
Std Dev 1.104

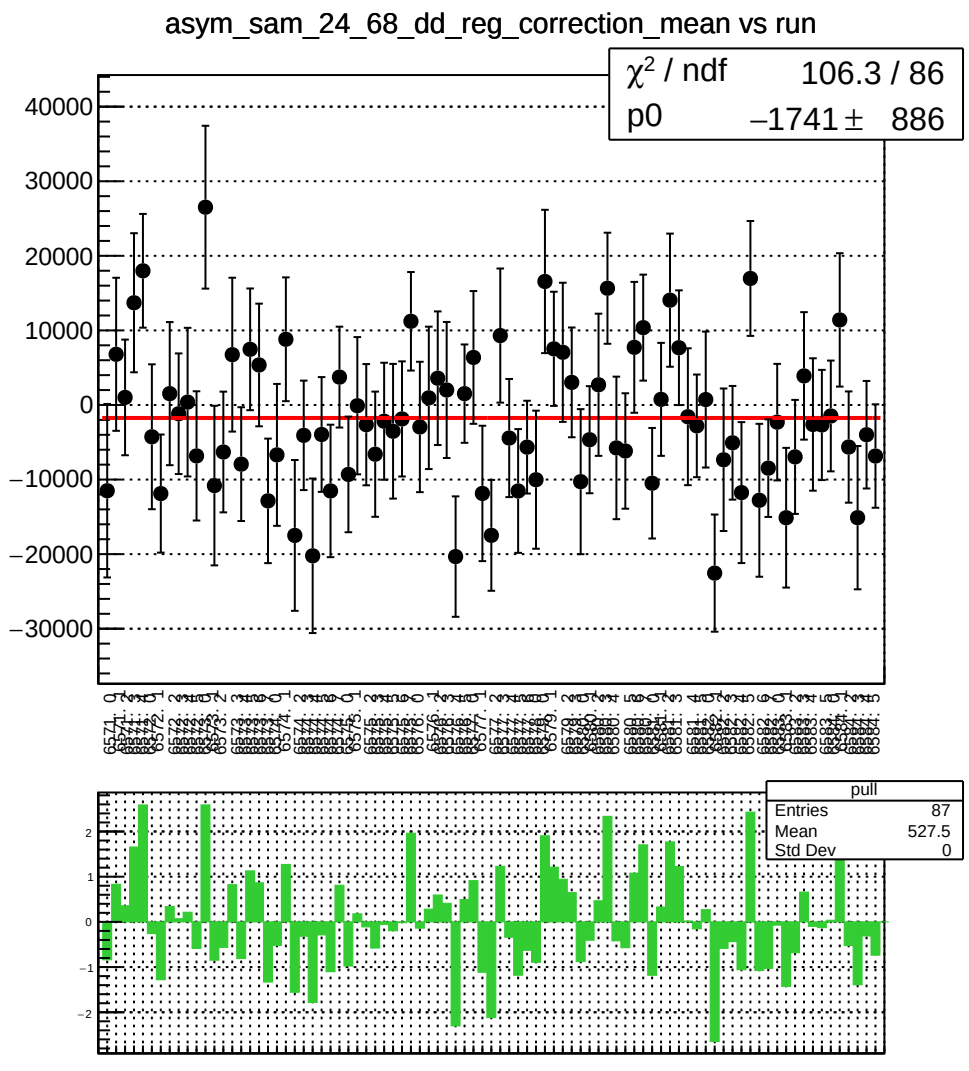

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.318e+05 / 86
p0 21.96 ± 0.01761
70
60
50
40
30
20
10

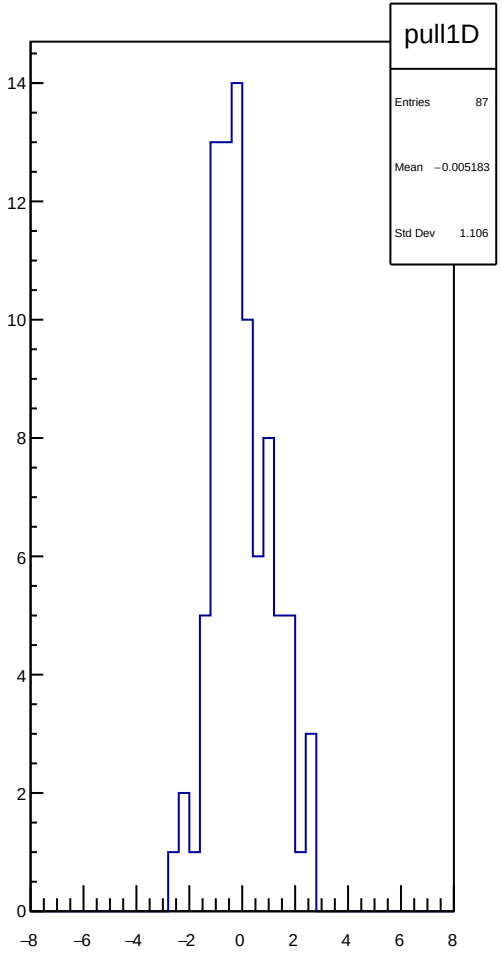

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.46 / 86
p0 −5.581e−17 ± 6.581e−15
pull
Entries 87
Mean 127
Std Dev 0
pull1D
Entries 87
Mean −0.004212
Std Dev 1.064

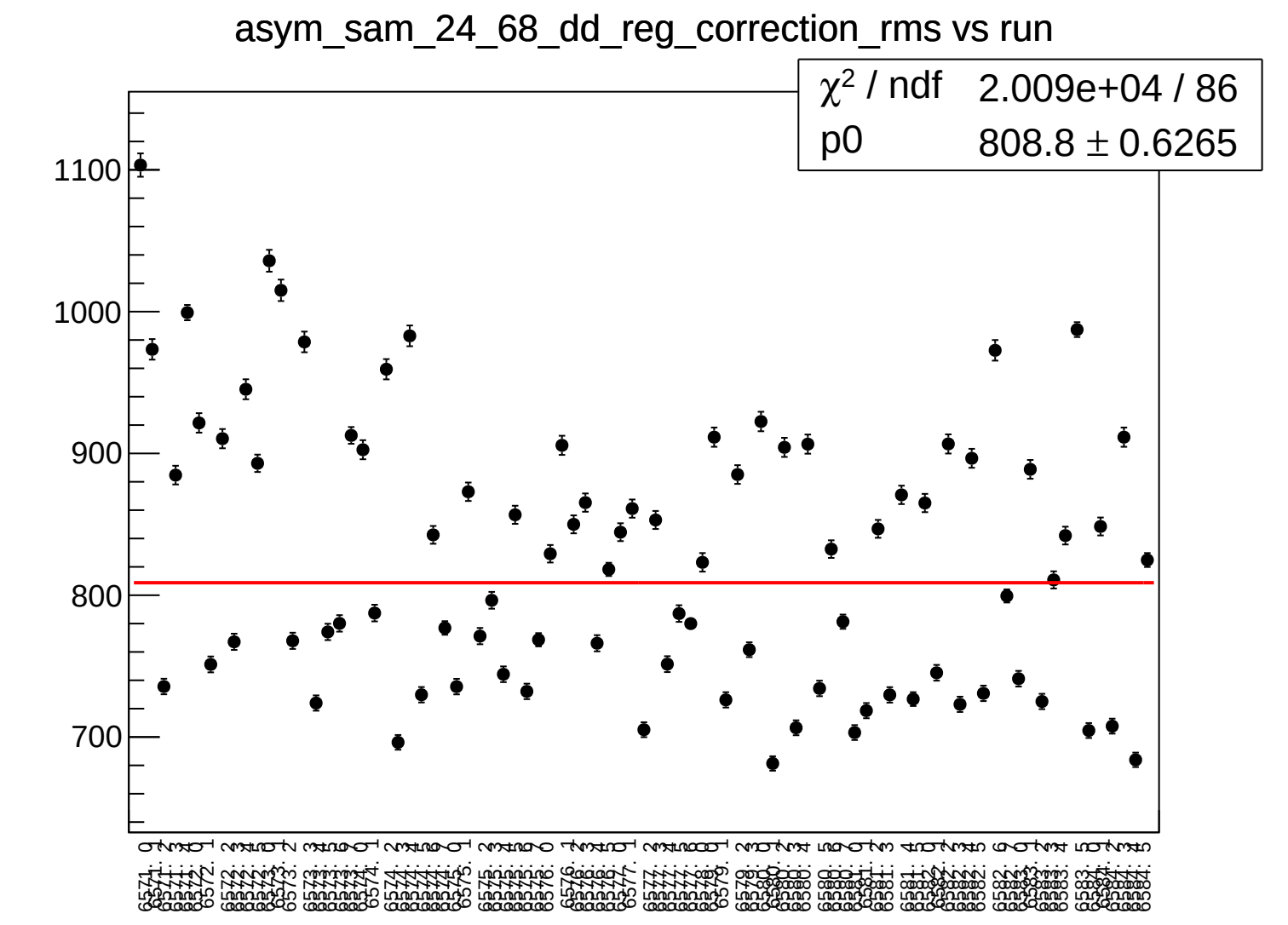

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.472e+05 / 86
p0 4.968e−12 ± 4.654e−15
35
30
25
20
15
10
5

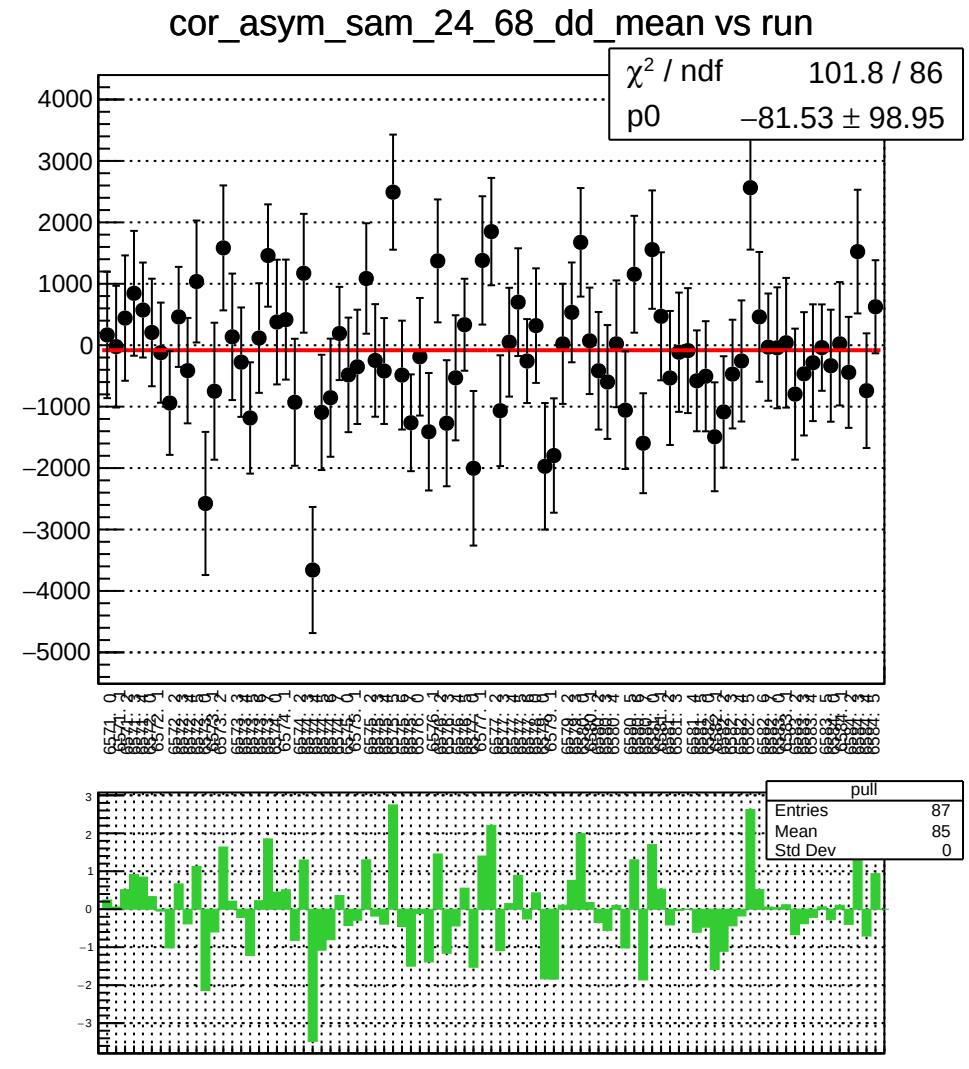

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 101.8 / 86
p0 −81.55 ± 98.95
pull
Entries 87
Mean 85.05
Std Dev 0
pull1D
Entries 87
Mean −0.0106
Std Dev 1.082

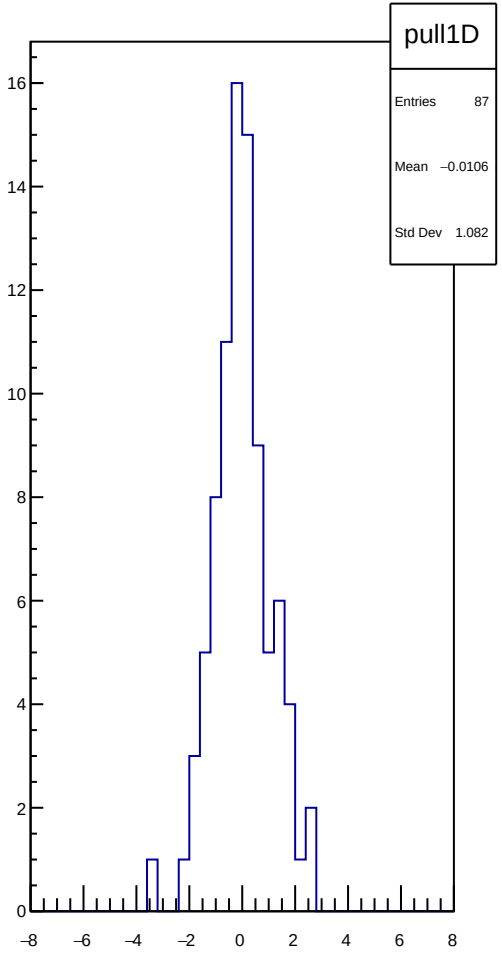

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.001e+04 / 86
p0 90.6 ± 0.06997
120
110
100
90
80

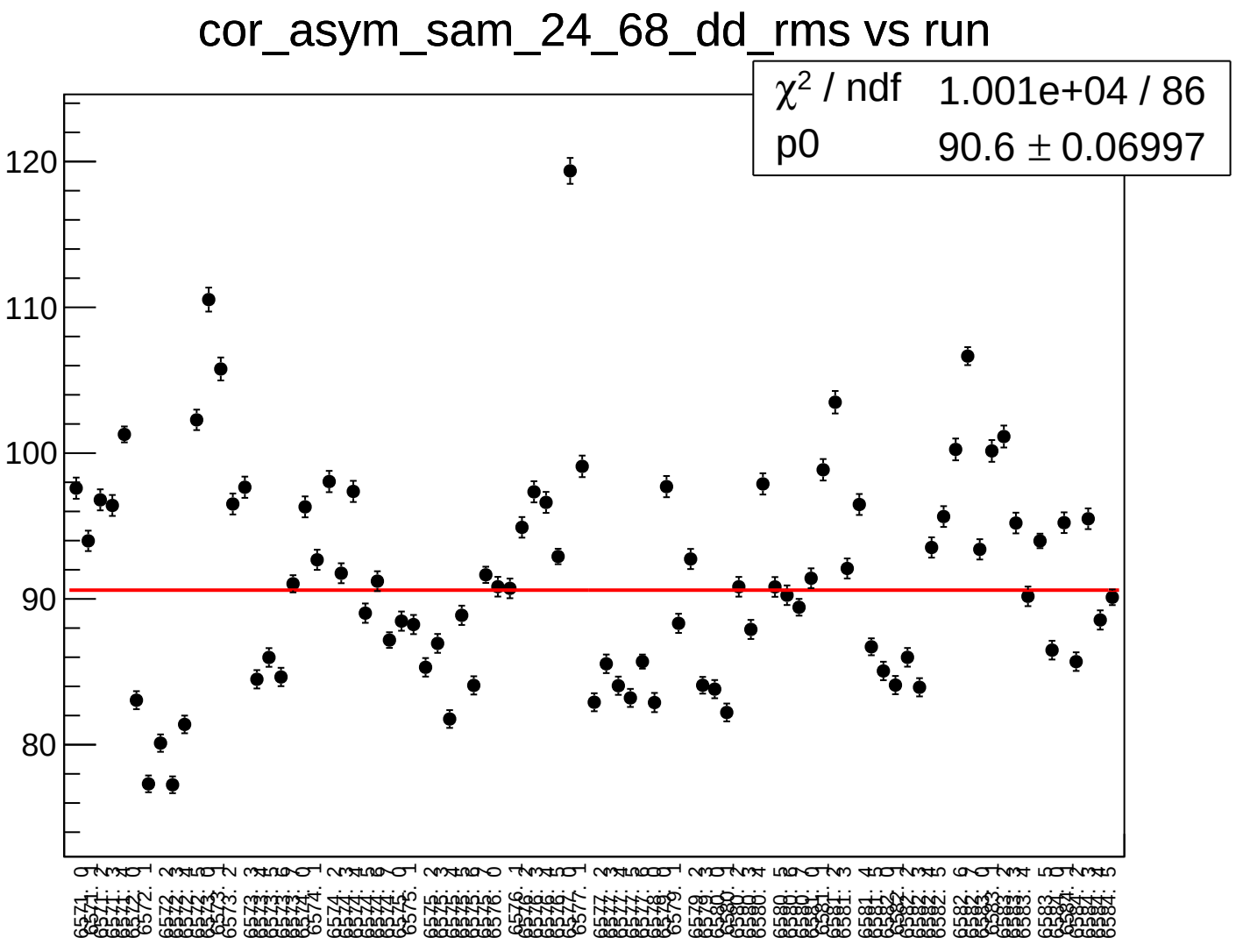

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 106.3 / 86
p0 −1741 ± 886
pull
Entries 87
Mean 527.5
Std Dev 0

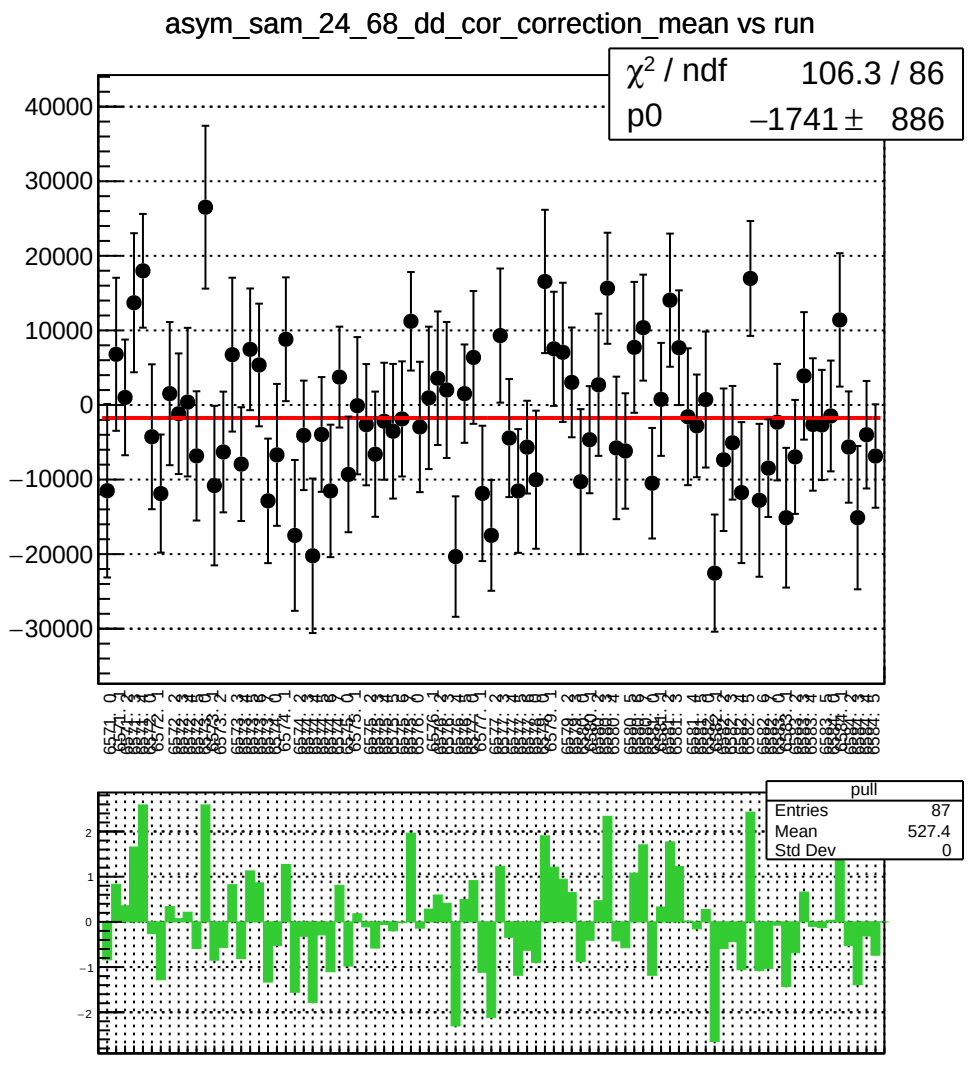

pull1D
Entries 87
Mean −0.005183
Std Dev 1.106

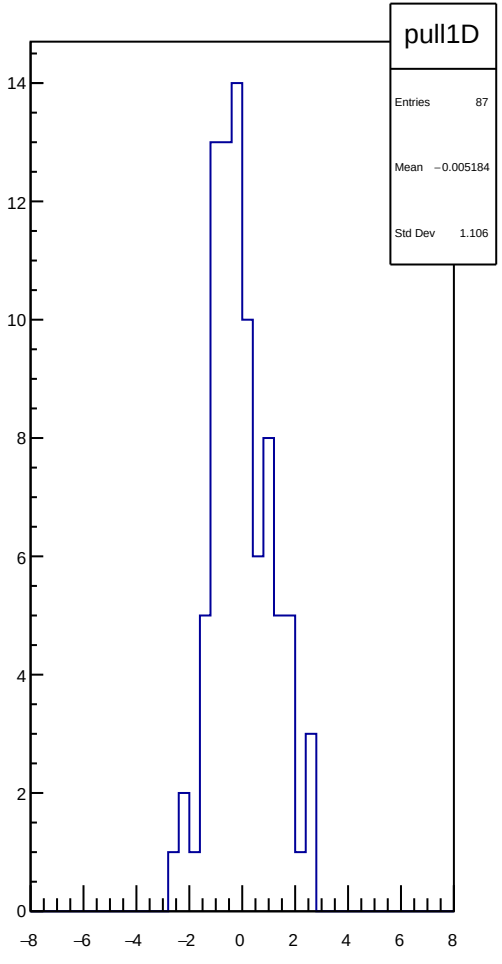

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2.009e+04 / 86
p0 808.8 ± 0.6265
1100
1000
900
800
700

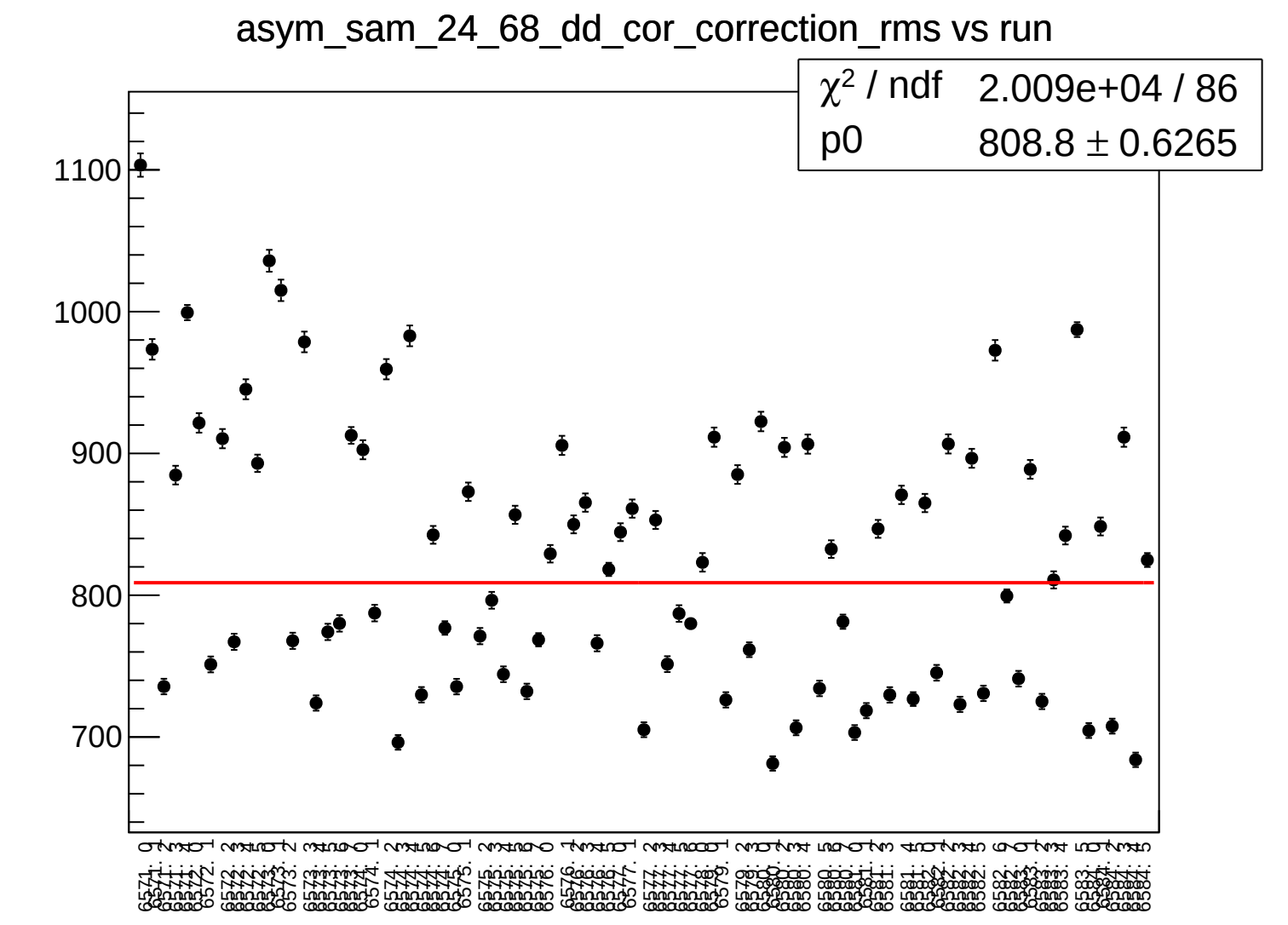

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 101.8 / 86
p0 −81.53 ± 98.95
pull
Entries 87
Mean 85
Std Dev 0

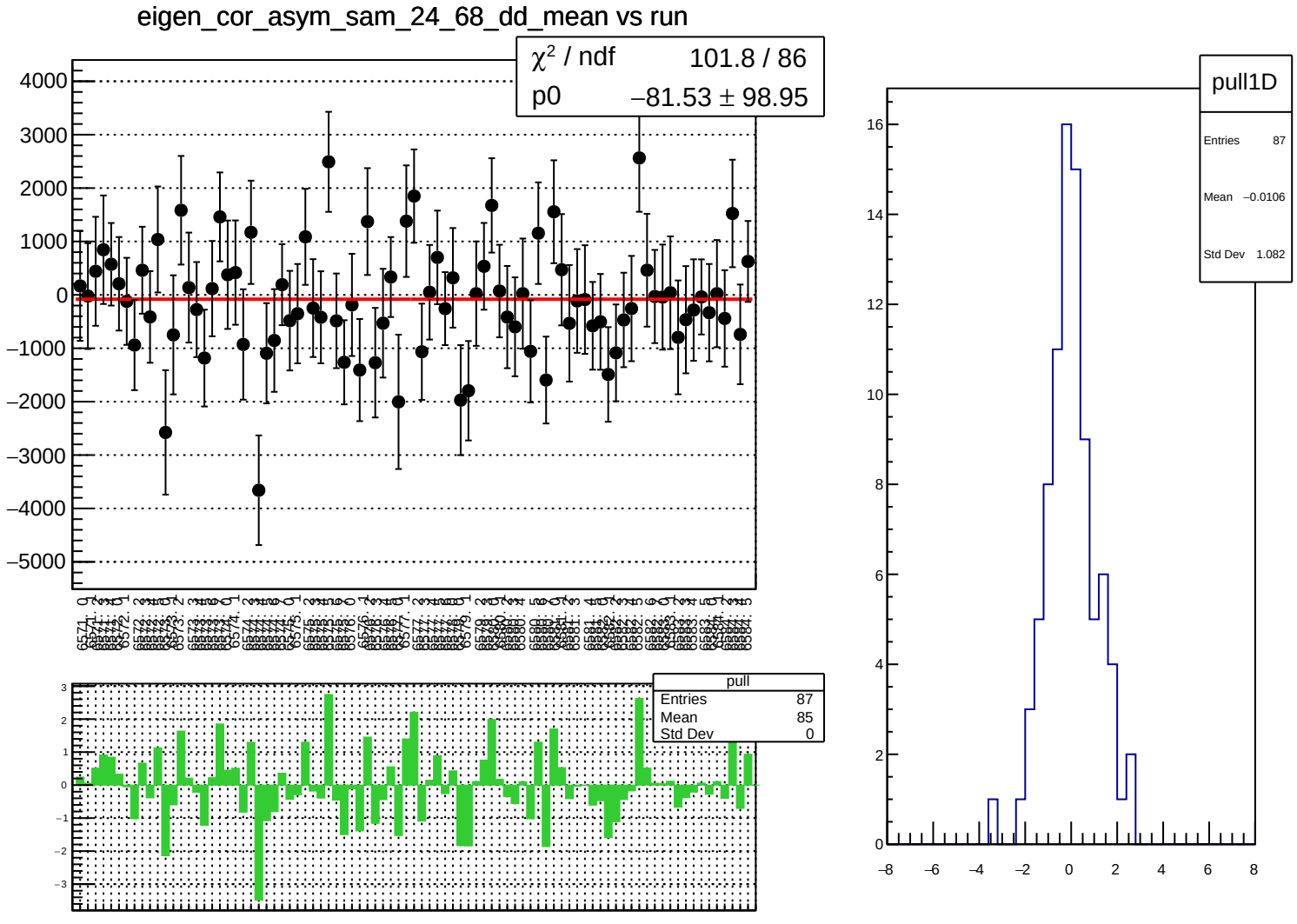

pull1D
Entries 87
Mean −0.0106
Std Dev 1.082

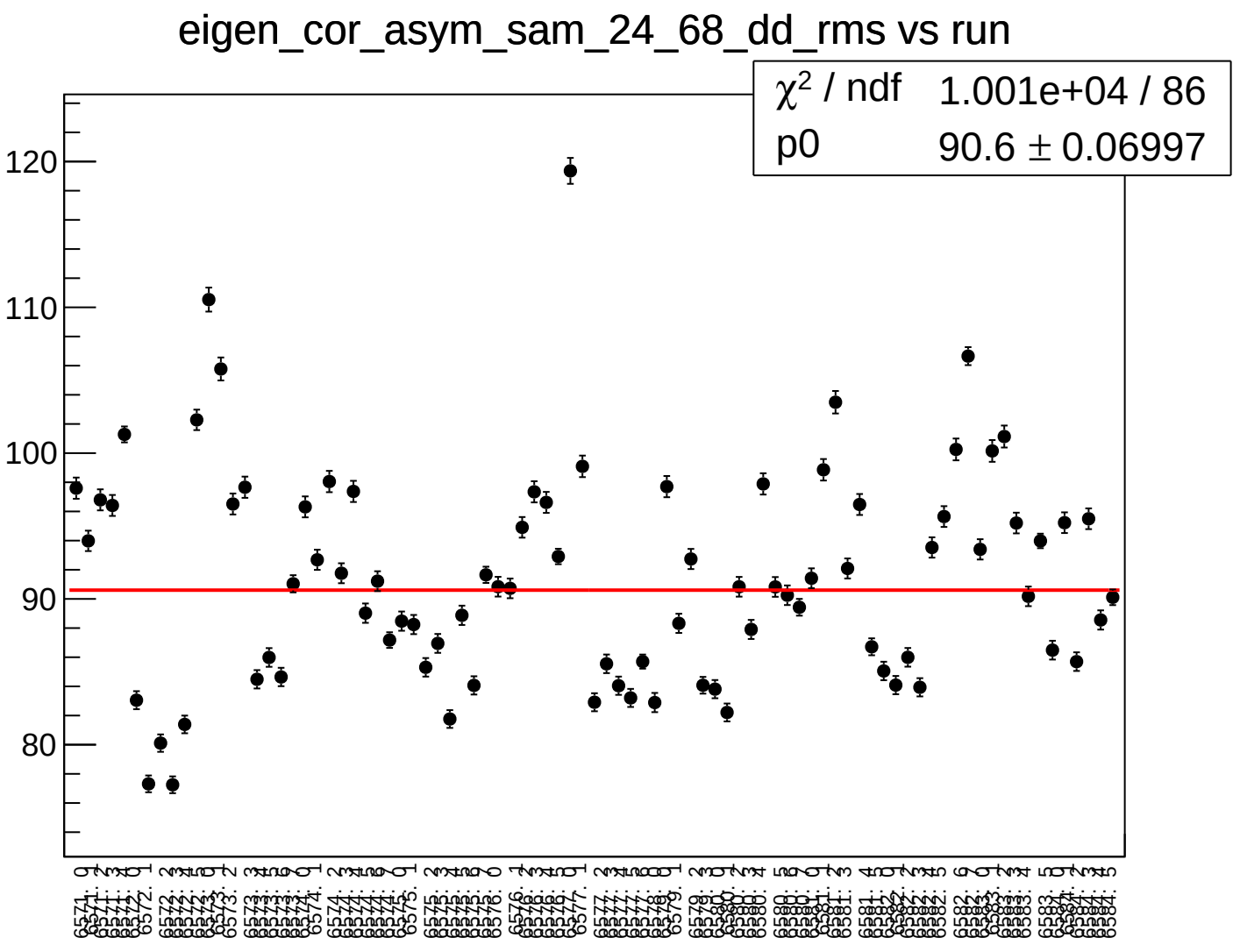

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.001e+04 / 86
p0 90.6 ± 0.06997
120
110
100
90
80

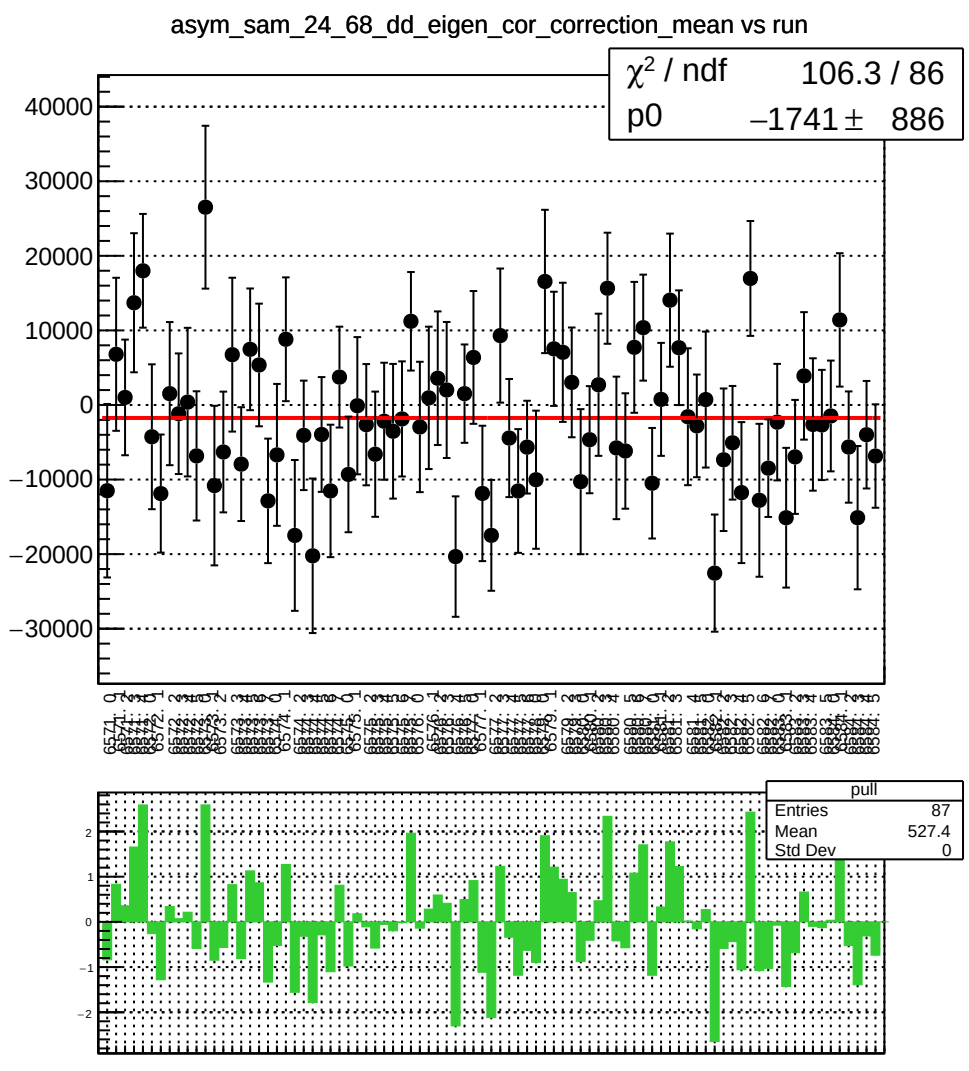

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 106.3 / 86
p0 −1741 ± 886
pull
Entries 87
Mean 527.4
Std Dev 0

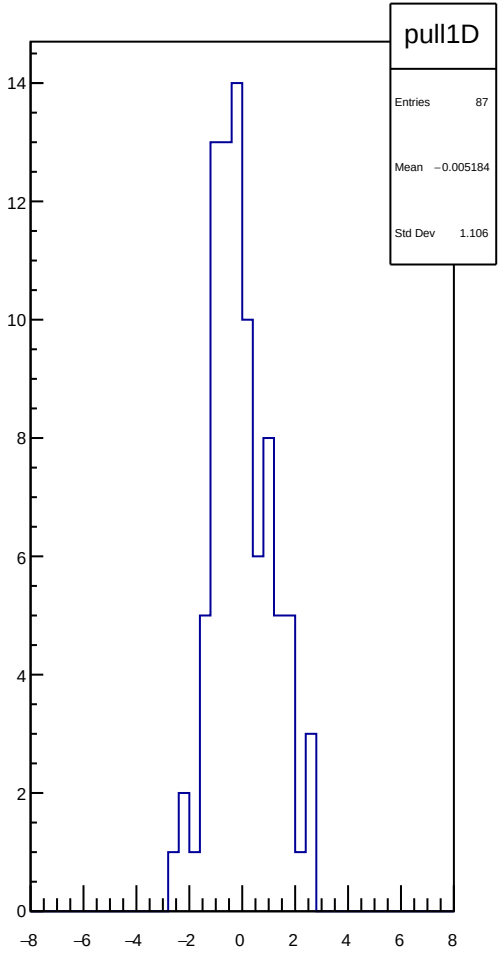

pull1D
Entries 87
Mean −0.005184
Std Dev 1.106

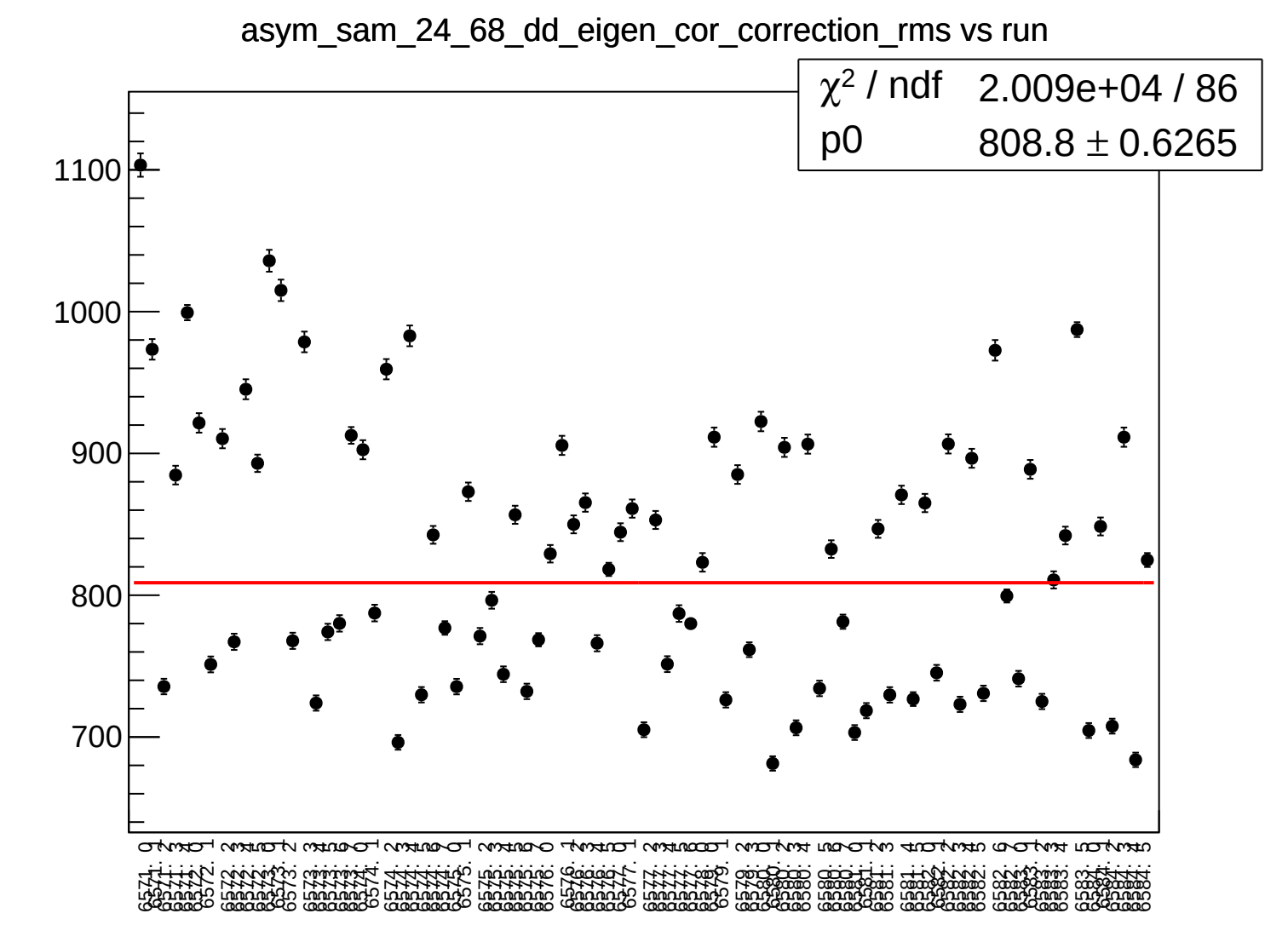

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2.009e+04 / 86
p0 808.8 ± 0.6265
1100
1000
900
800
700

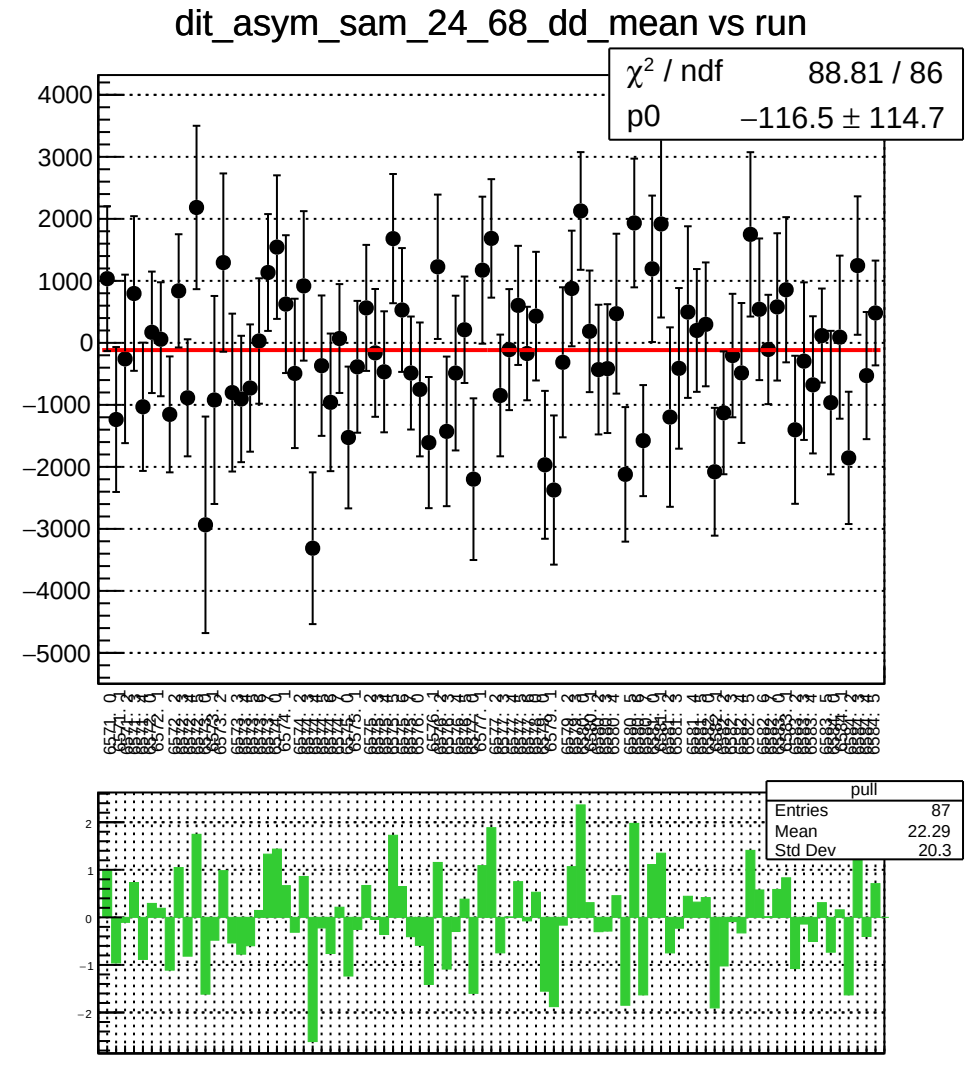

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 101.8 / 86
p0 −81.53 ± 98.95
pull
Entries 87
Mean 85
Std Dev 0
pull1D
Entries 87
Mean −0.0106
Std Dev 1.082

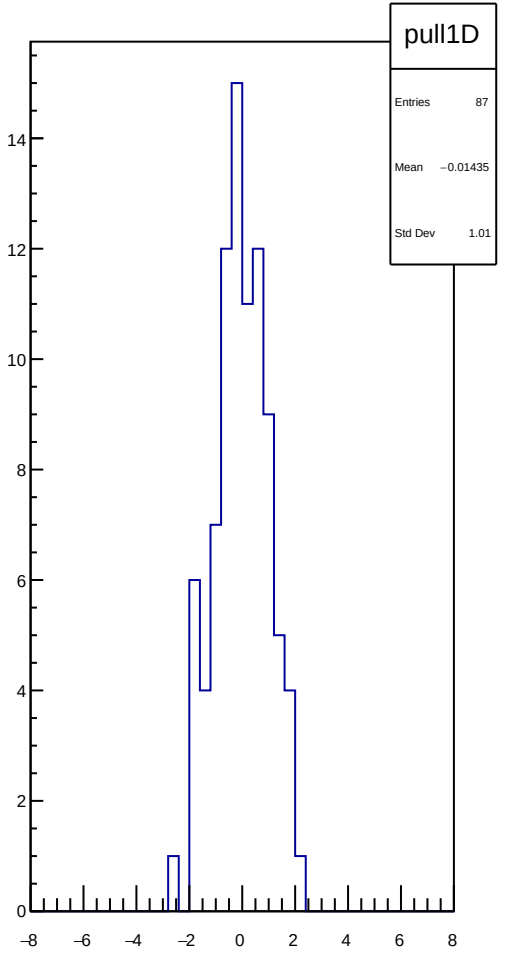

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.001e+04 / 86
p0 90.6 ± 0.06997
120
110
100
90
80

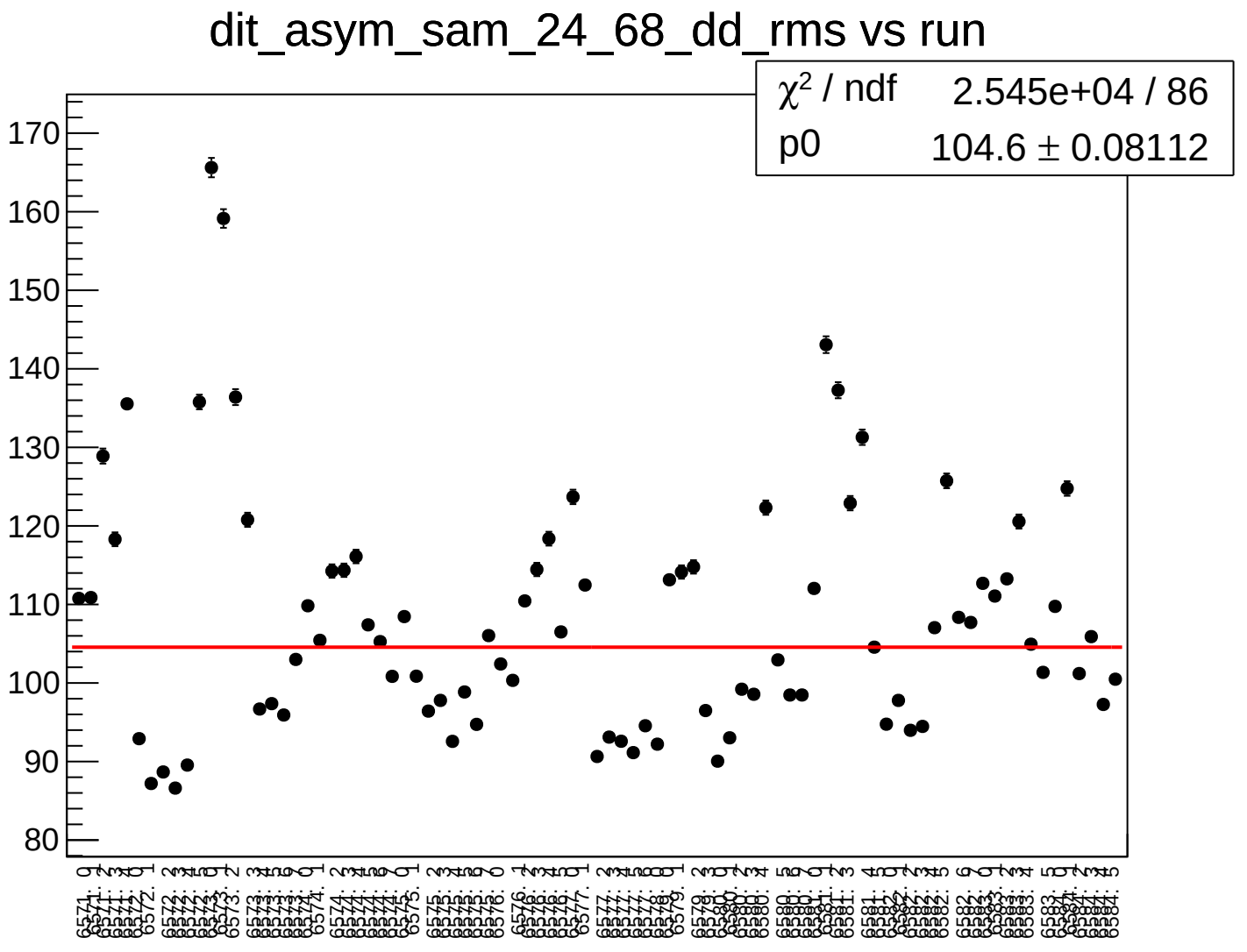

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 106.3 / 86
p0 −1741 ± 886
pull
Entries 87
Mean 527.4
Std Dev 0

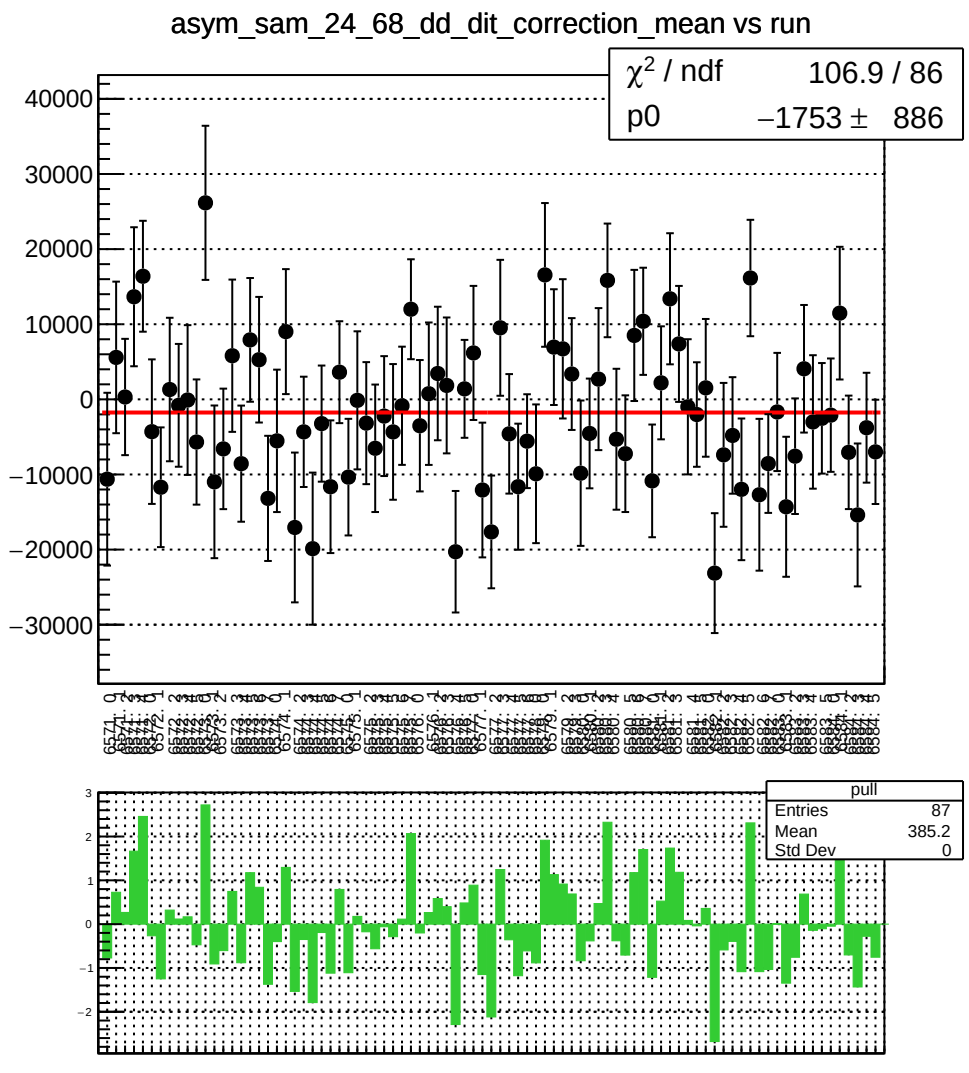

pull1D
Entries 87
Mean −0.005184
Std Dev 1.106

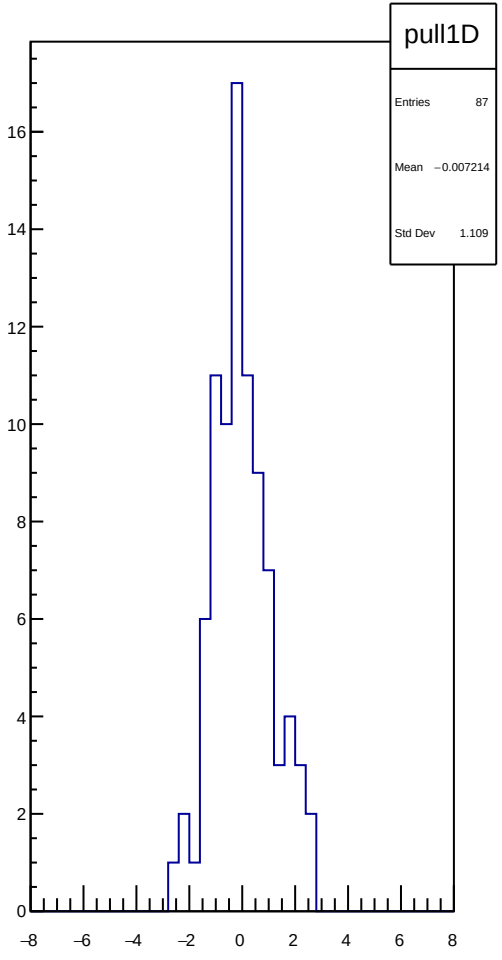

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.009e+04 / 86
p0 808.8 ± 0.6265
1100
1000
900
800
700

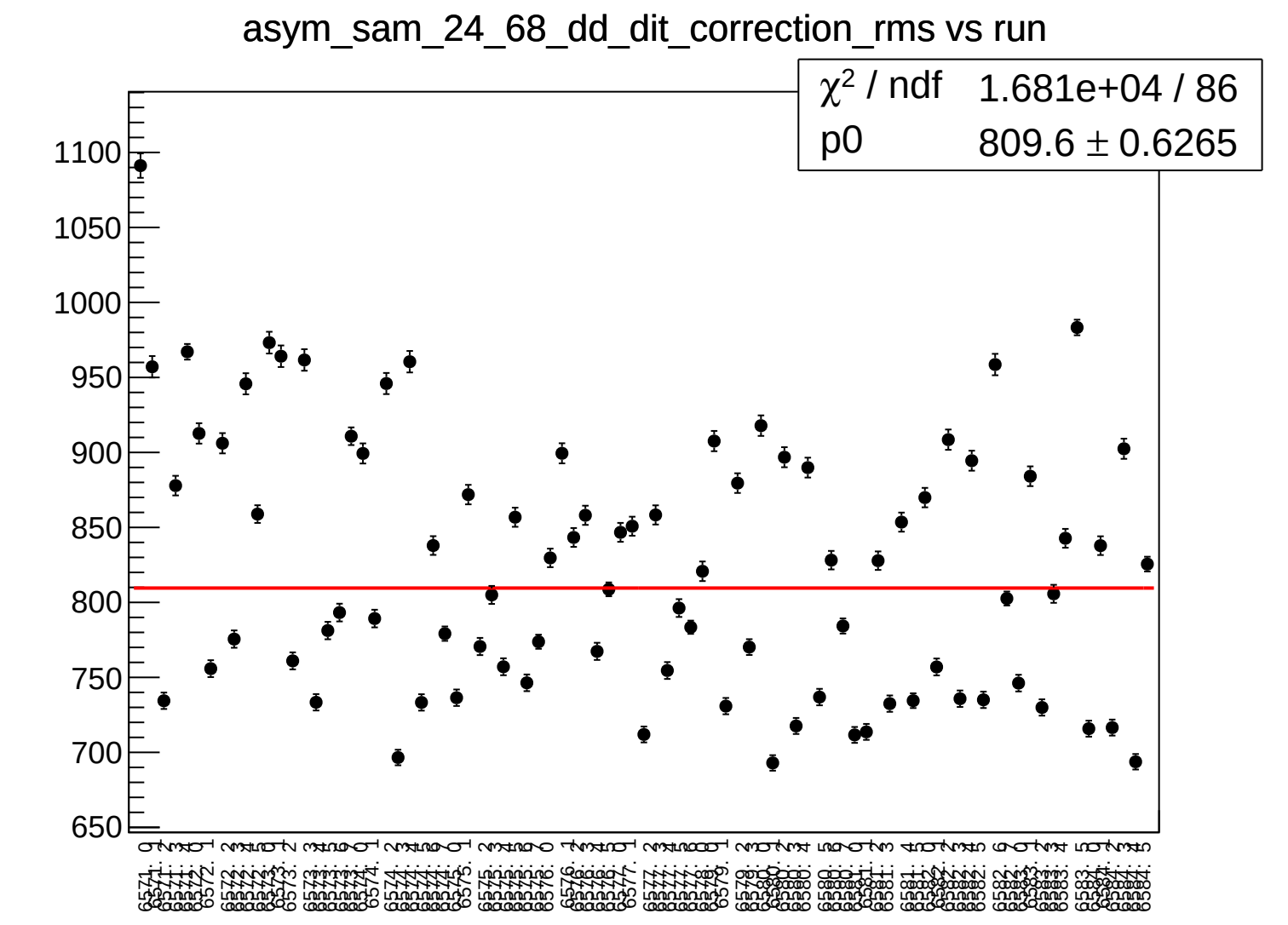

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 88.81 / 86
p0 −116.5 ± 114.7
pull
Entries 87
Mean 22.29
Std Dev 20.3

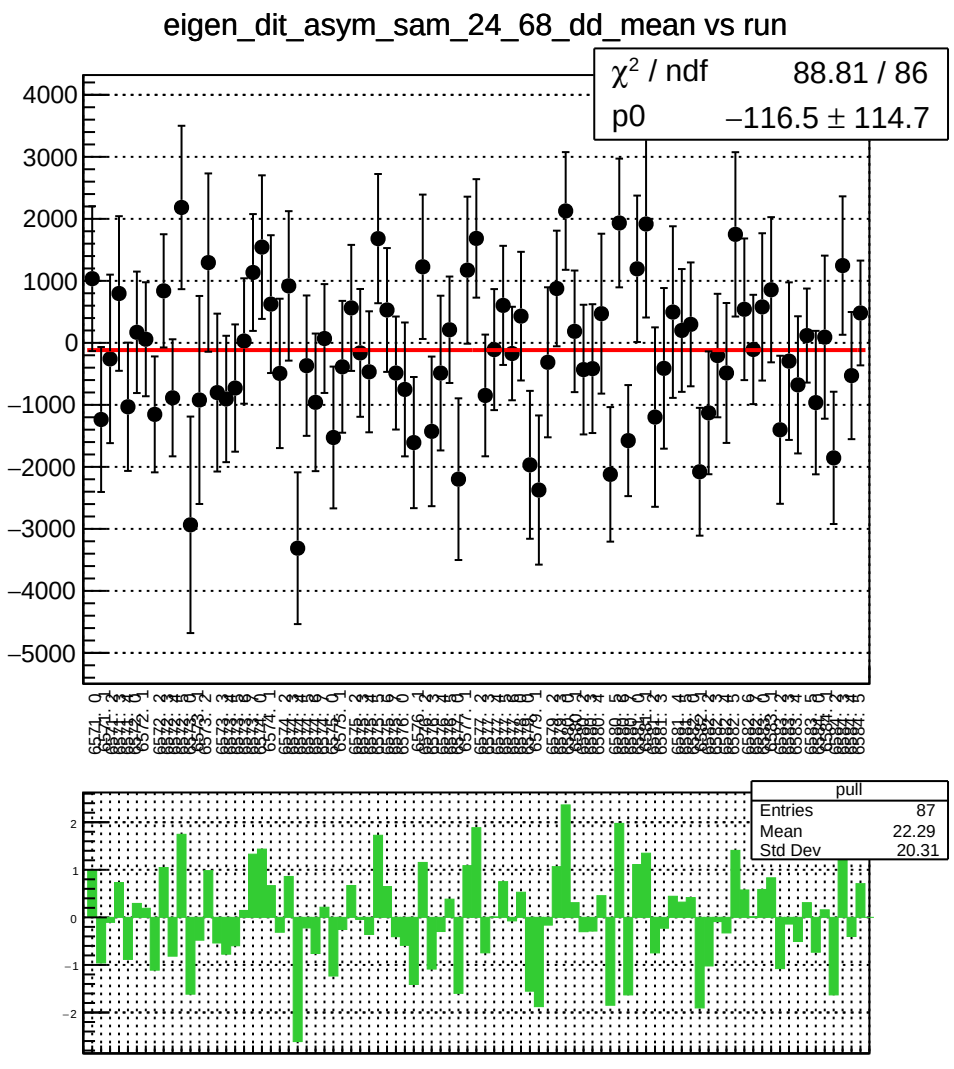

pull1D
Entries 87
Mean −0.01435
Std Dev 1.01

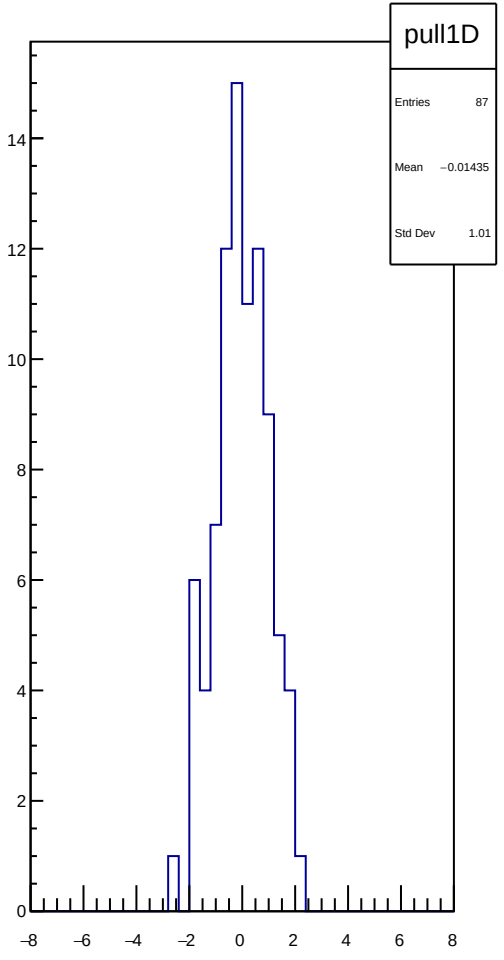

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.545e+04 / 86
p0 104.6 ± 0.08112
170
160
150
140
130
120
110
100
90
80

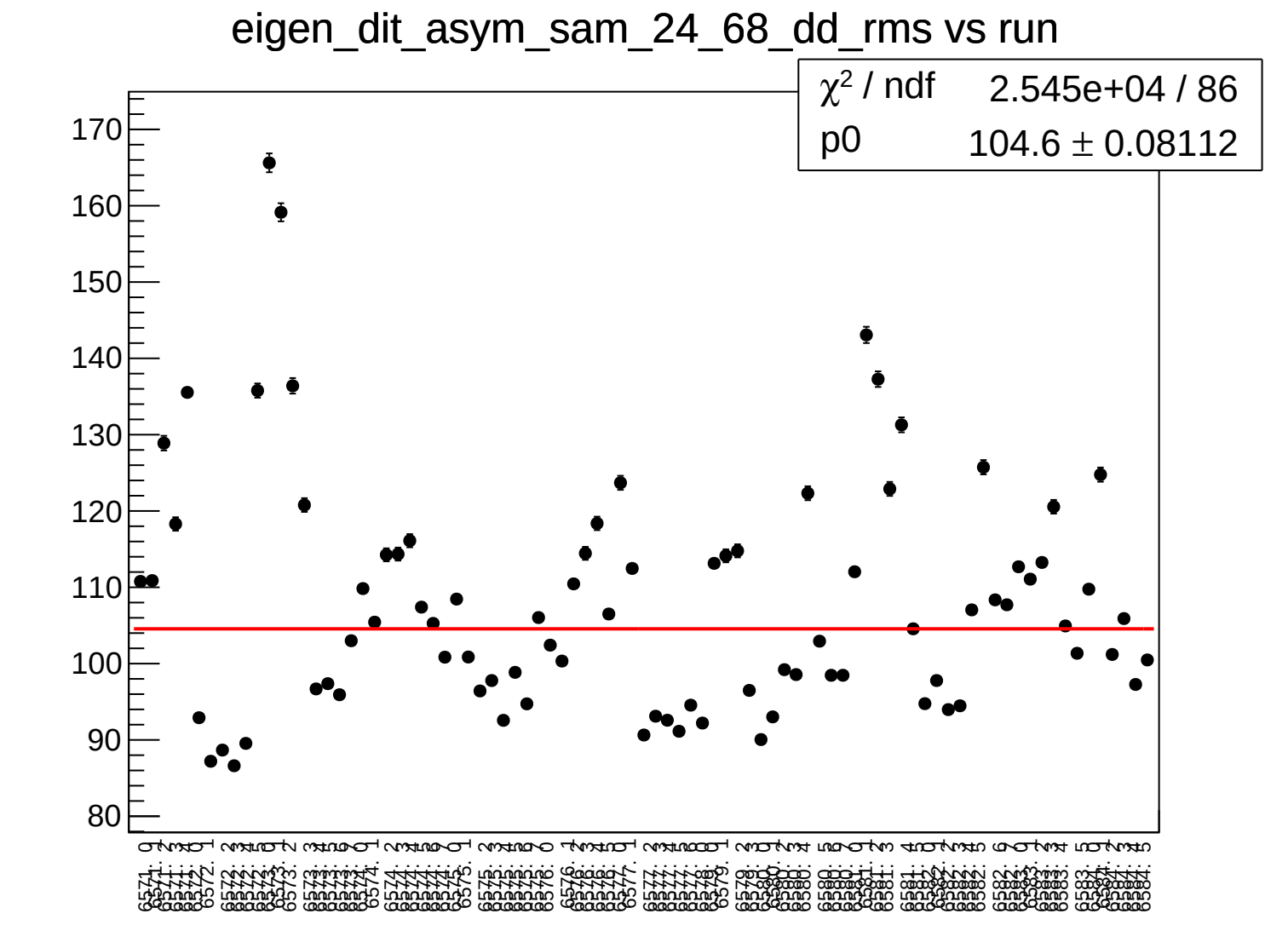

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 106.9 / 86
p0 −1753 ± 886
pull
Entries 87
Mean 385.2
Std Dev 0

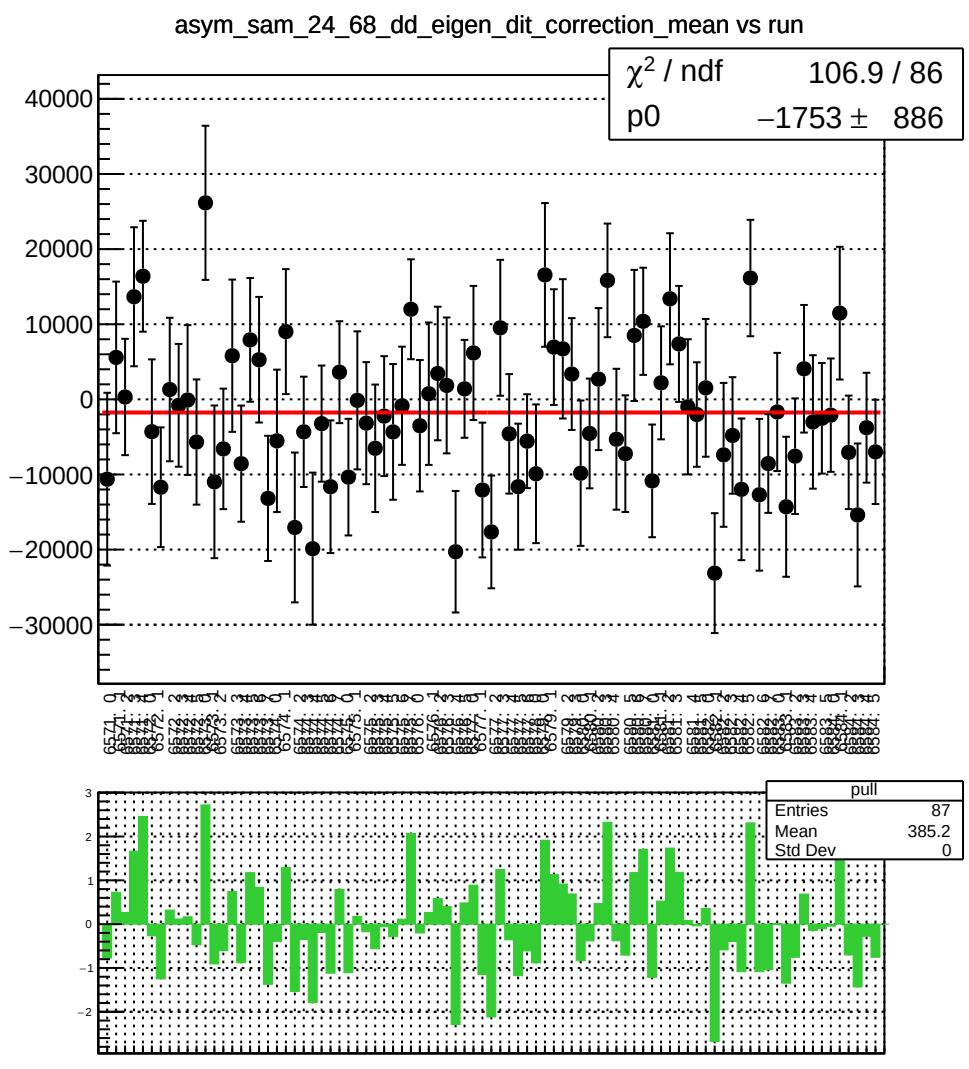

pull1D
Entries 87
Mean −0.007214
Std Dev 1.109

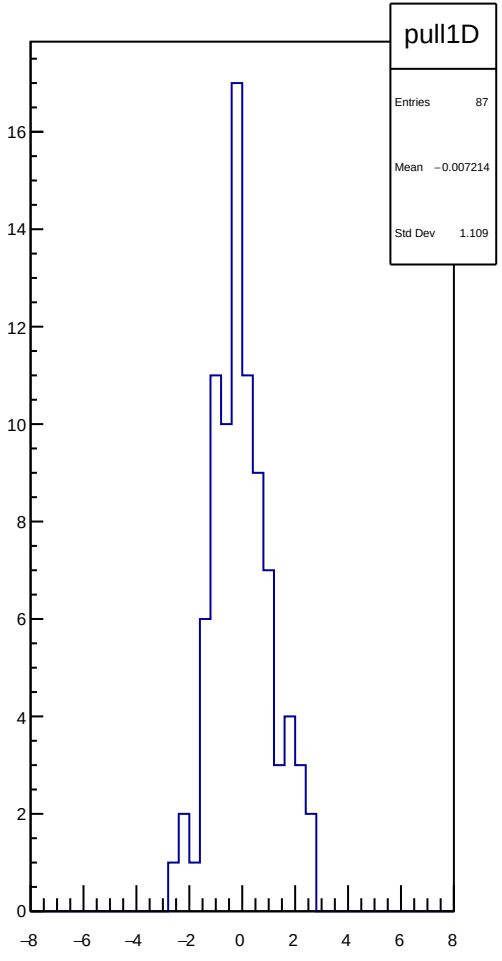

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.681e+04 / 86
p0 809.6 ± 0.6265
1100
1050
1000
950
900
850
800
750
700
650

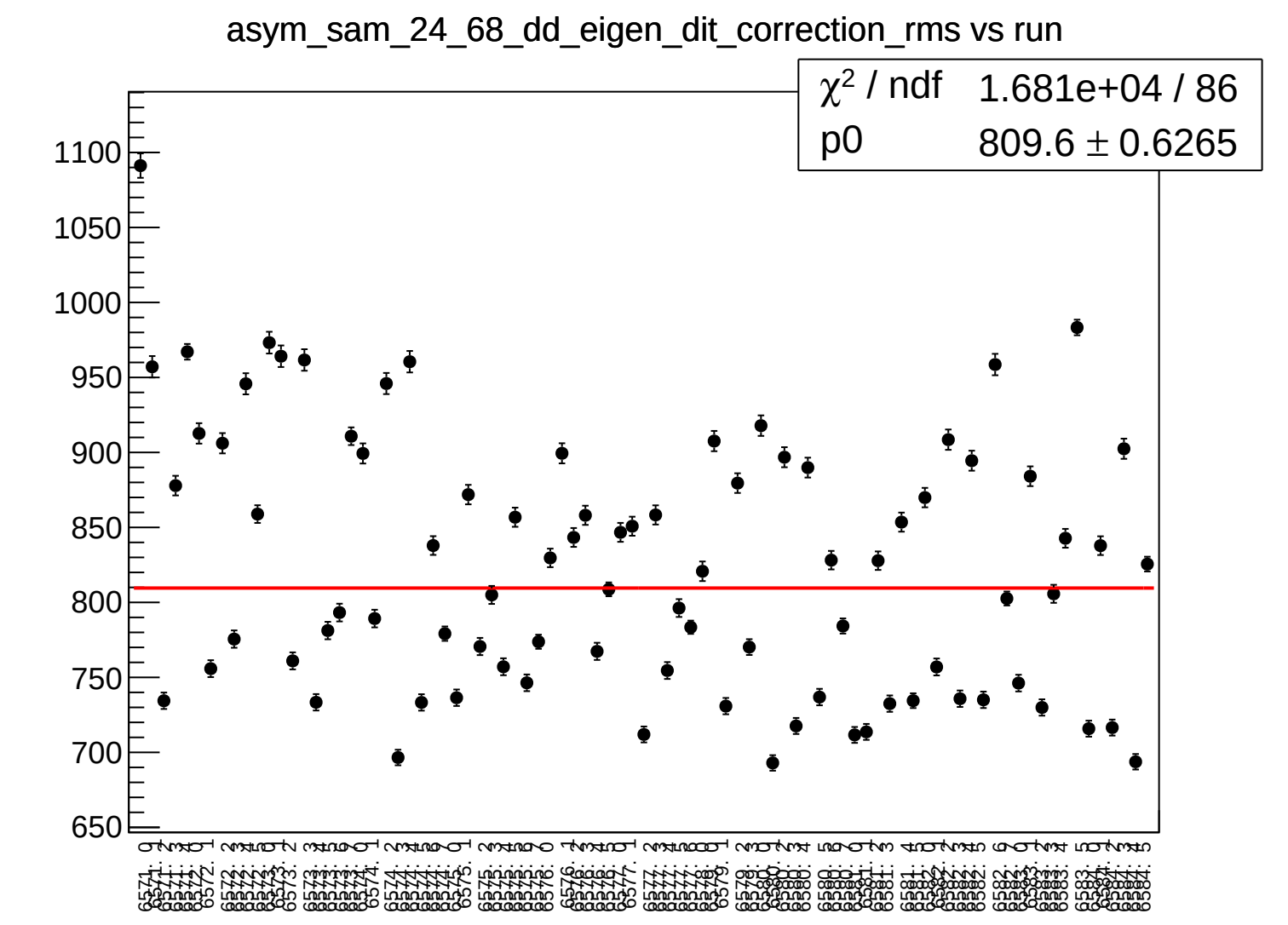

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 88.81 / 86
p0 −116.5 ± 114.7
pull
Entries 87
Mean 22.29
Std Dev 20.31

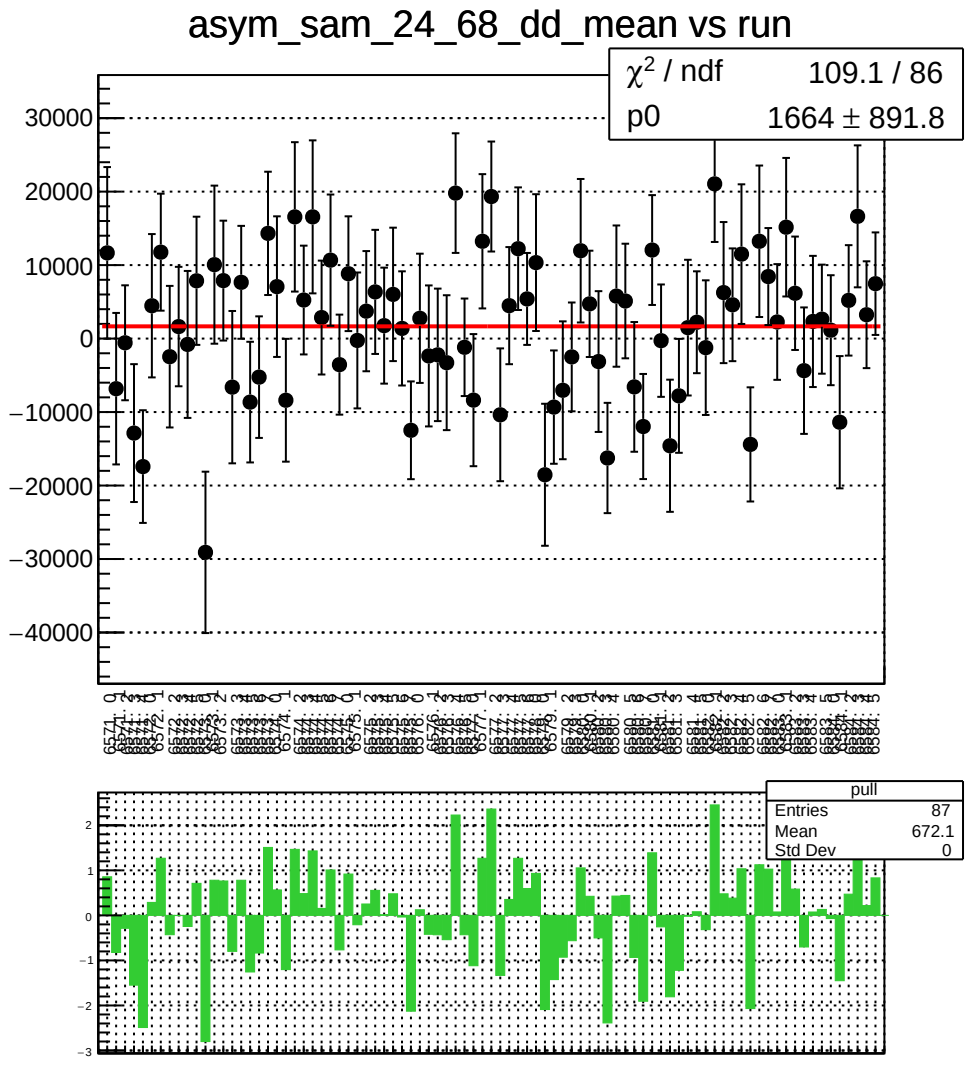

pull1D
Entries 87
Mean −0.01435
Std Dev 1.01

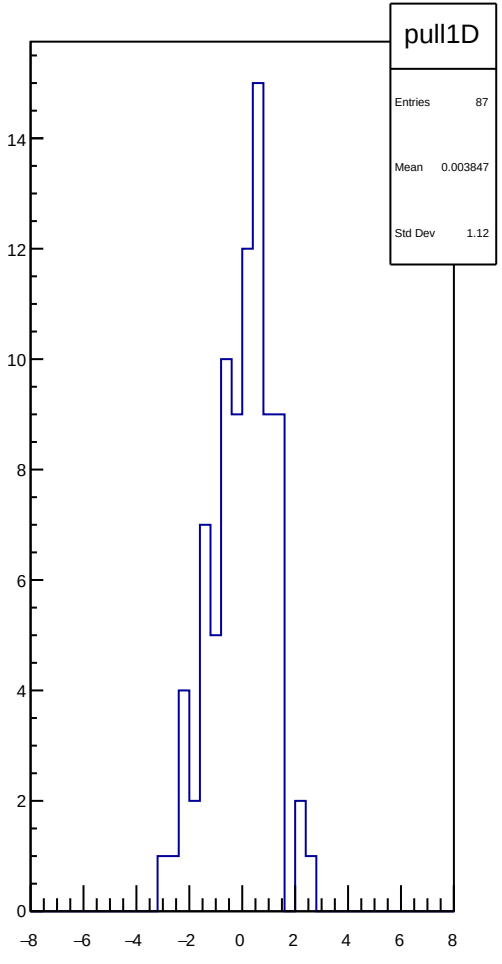

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.545e+04 / 86
p0 104.6 ± 0.08112
170
160
150
140
130
120
110
100
90
80

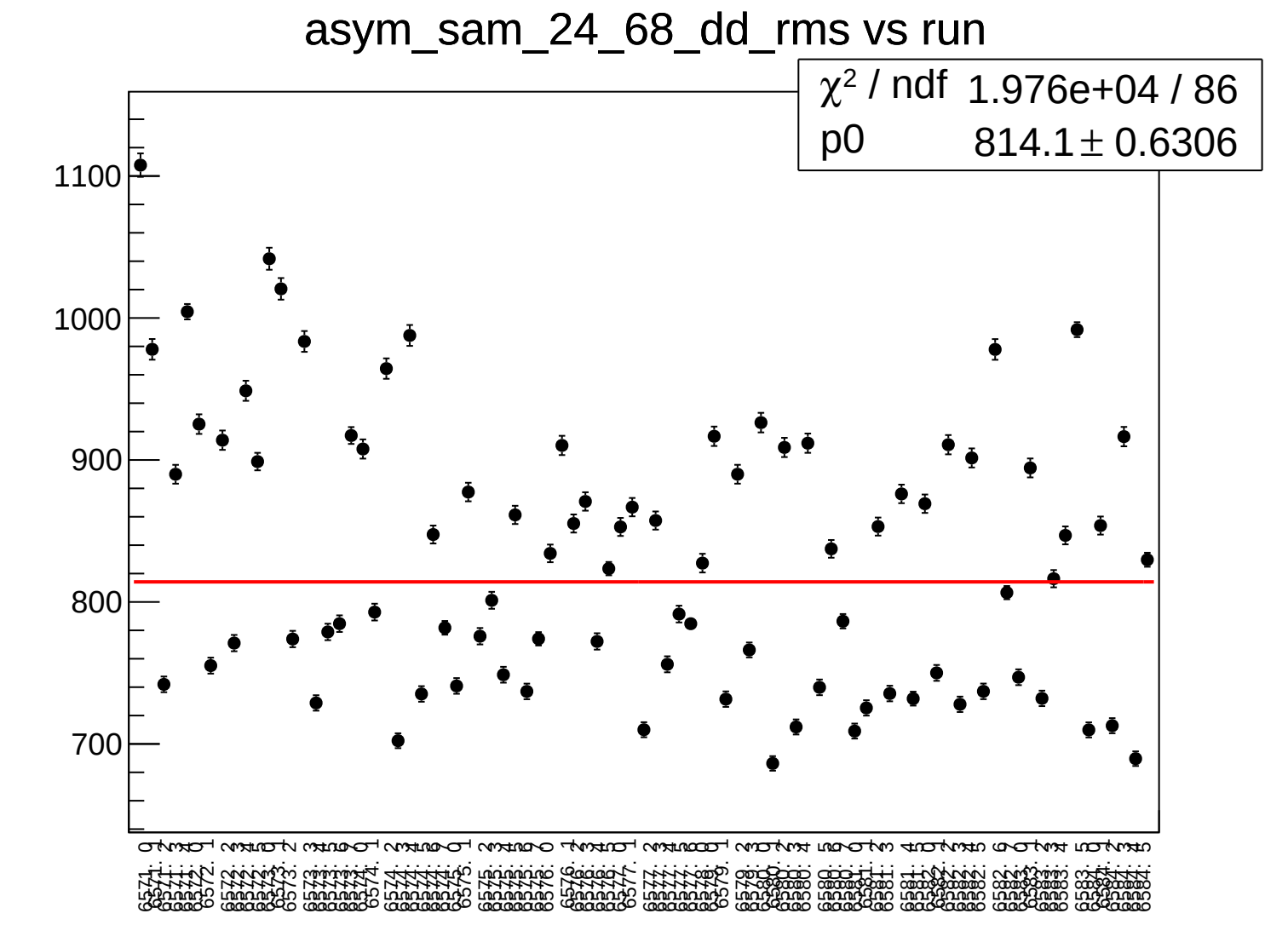

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.9 / 86
p0 −1753 ± 886
pull
Entries 87
Mean 385.2
Std Dev 0

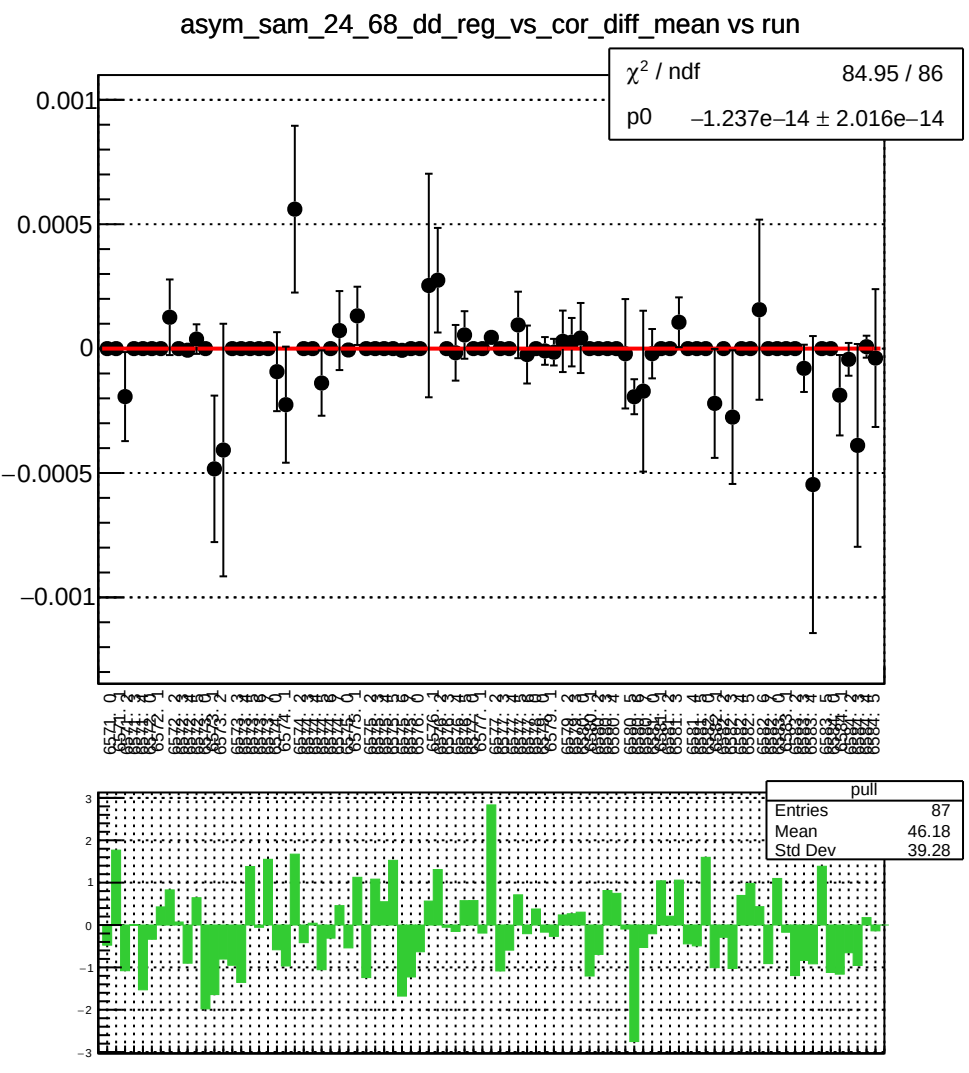

pull1D
Entries 87
Mean −0.007214
Std Dev 1.109

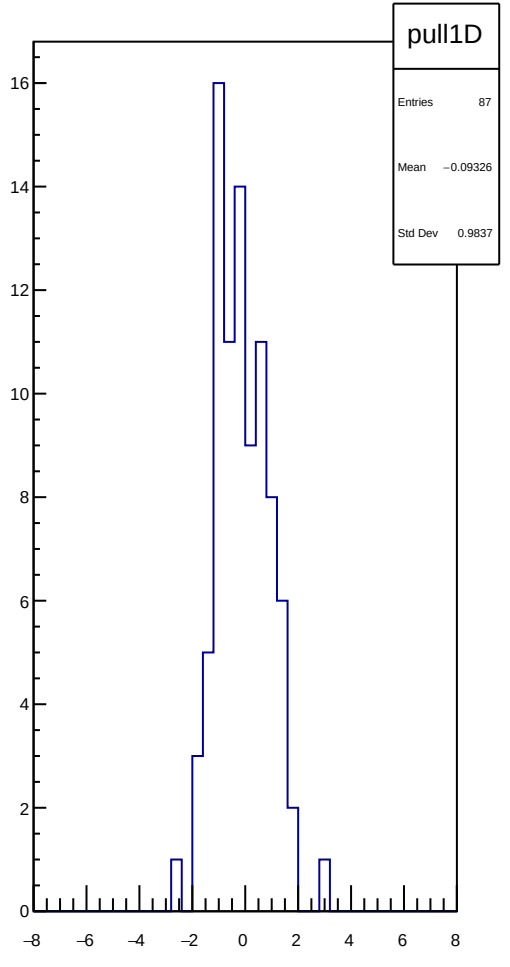

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.681e+04 / 86
p0 809.6 ± 0.6265
1100
1050
1000
950
900
850
800
750
700
650

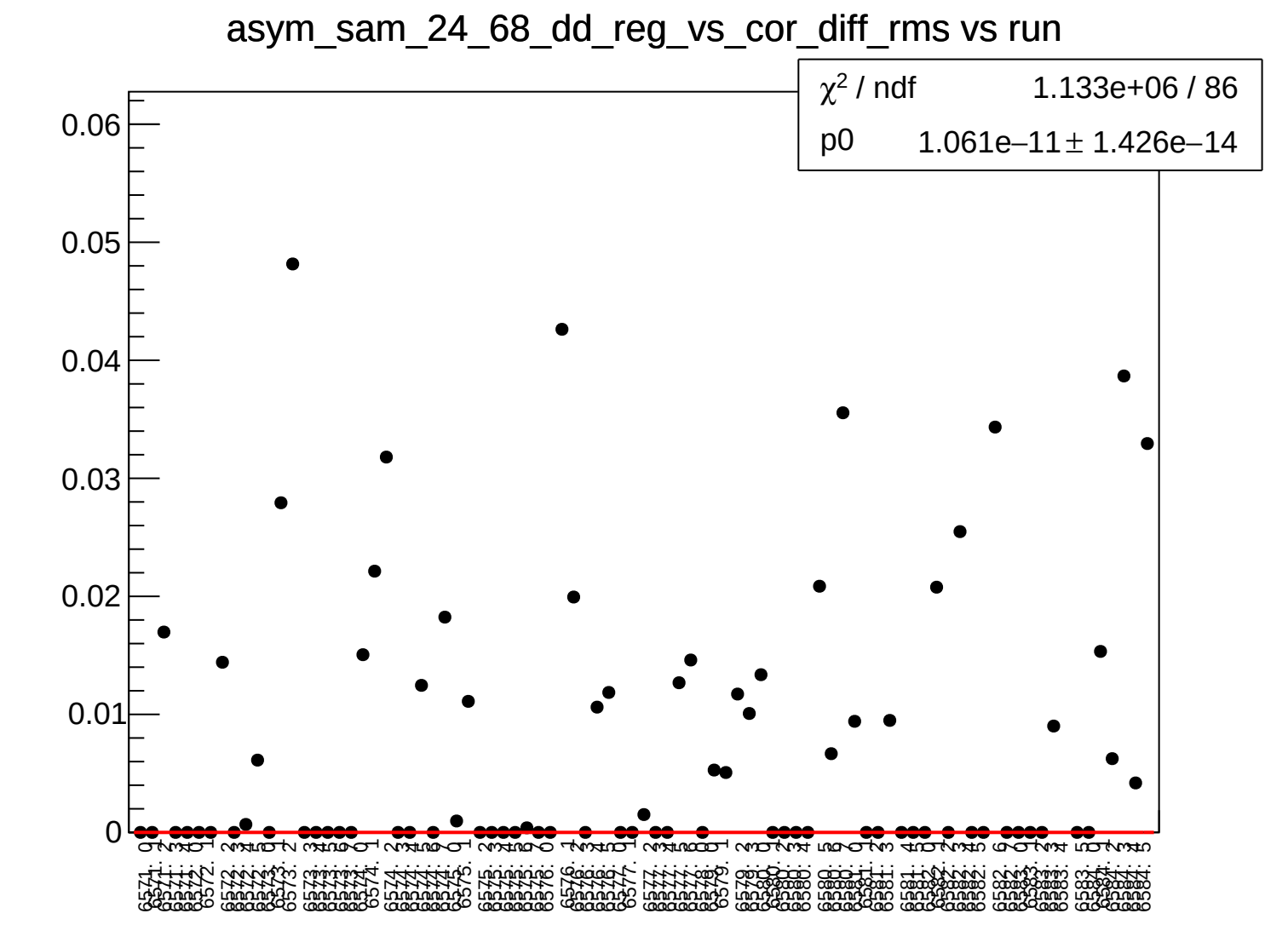

asym_sam_24_68_dd_mean vs run
χ² / ndf 109.1 / 86
p0 1664 ± 891.8
pull
Entries 87
Mean 672.1
Std Dev 0

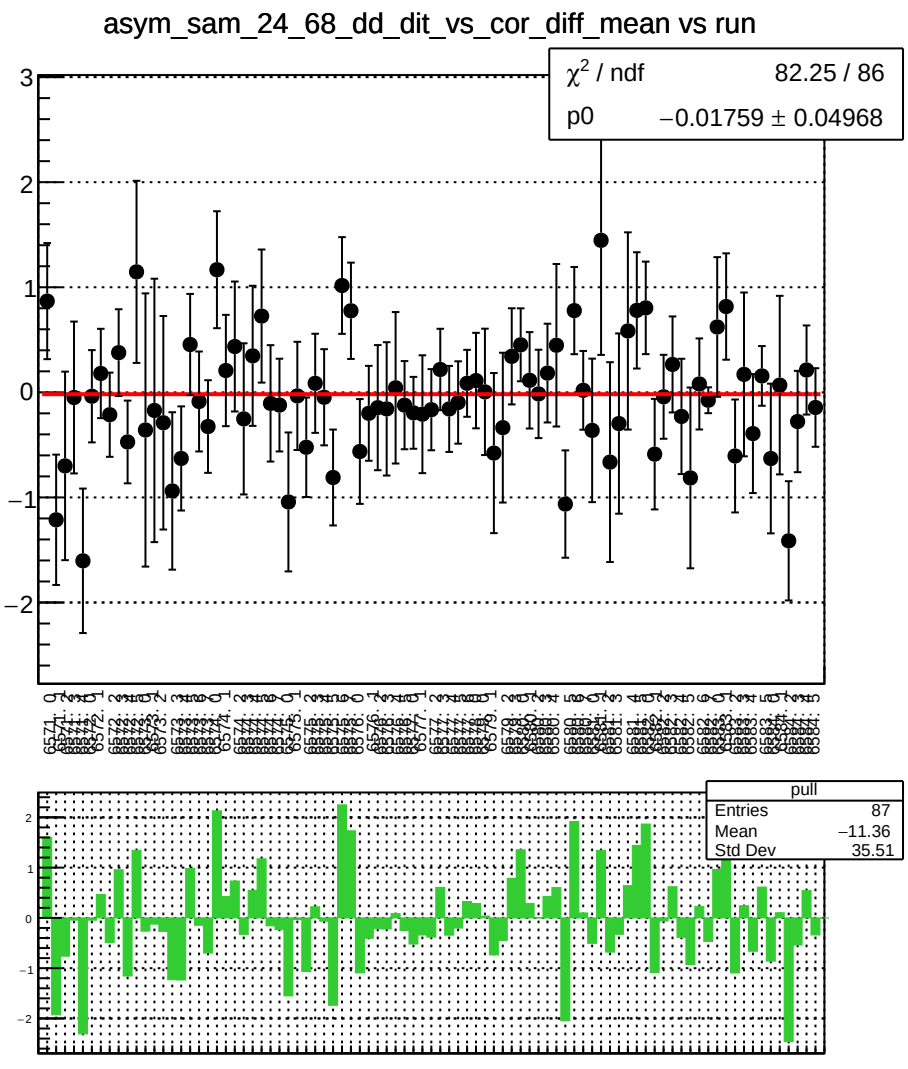

pull1D
Entries 87
Mean 0.003847
Std Dev 1.12

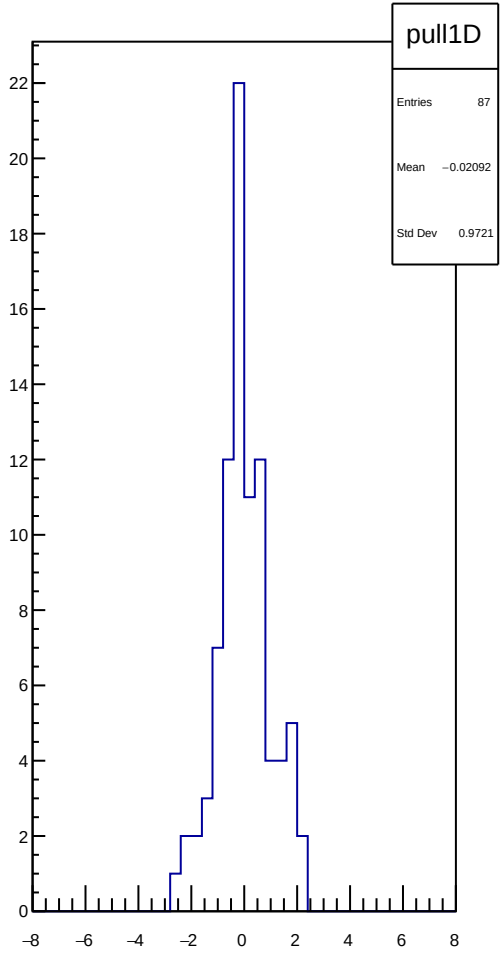

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.976e+04 / 86
p0 814.1 ± 0.6306
1100
1000
900
800
700

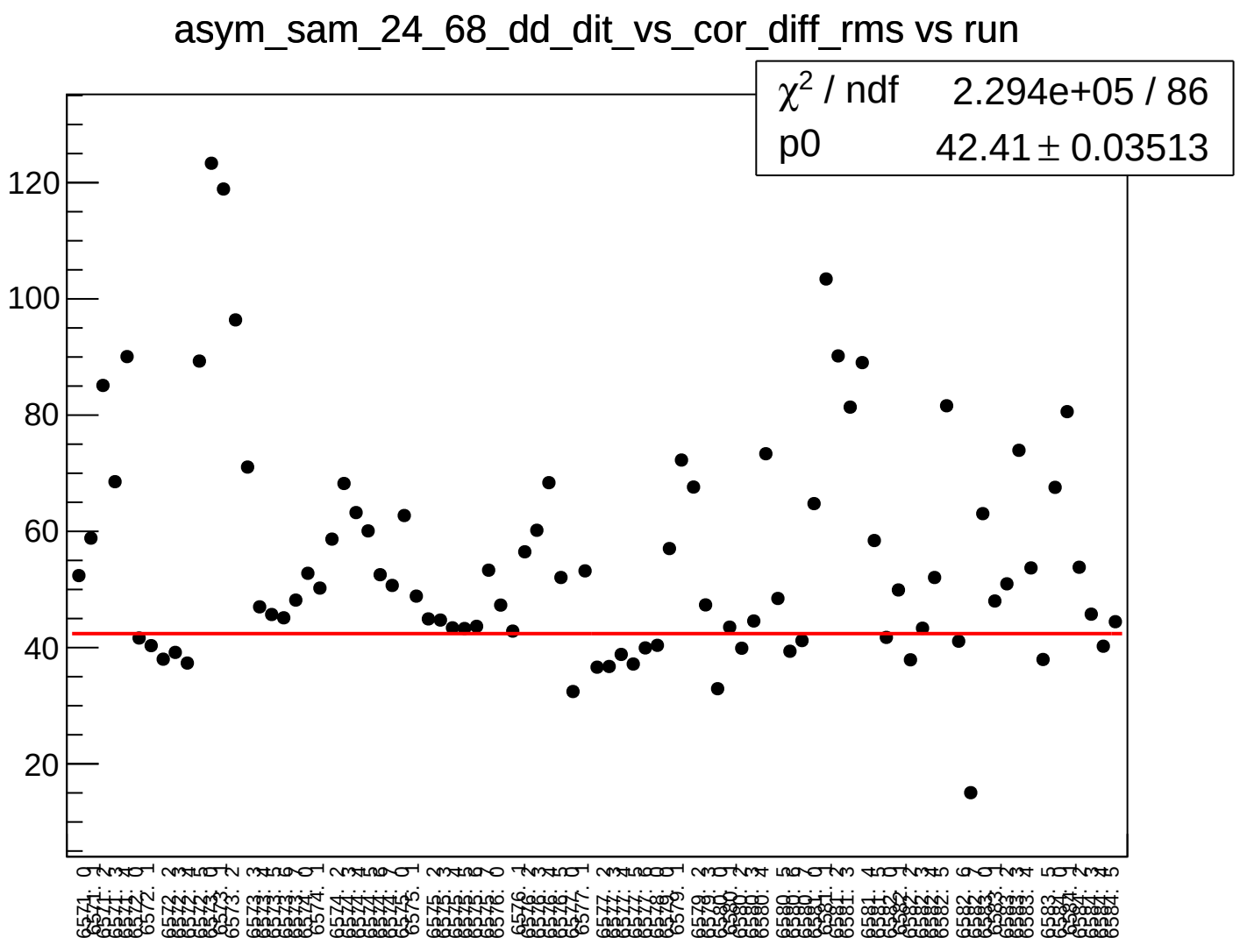

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.95 / 86
p0 −1.237e−14 ± 2.016e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 46.18
Std Dev 39.28
3
2
1
0
−1
−2
−3

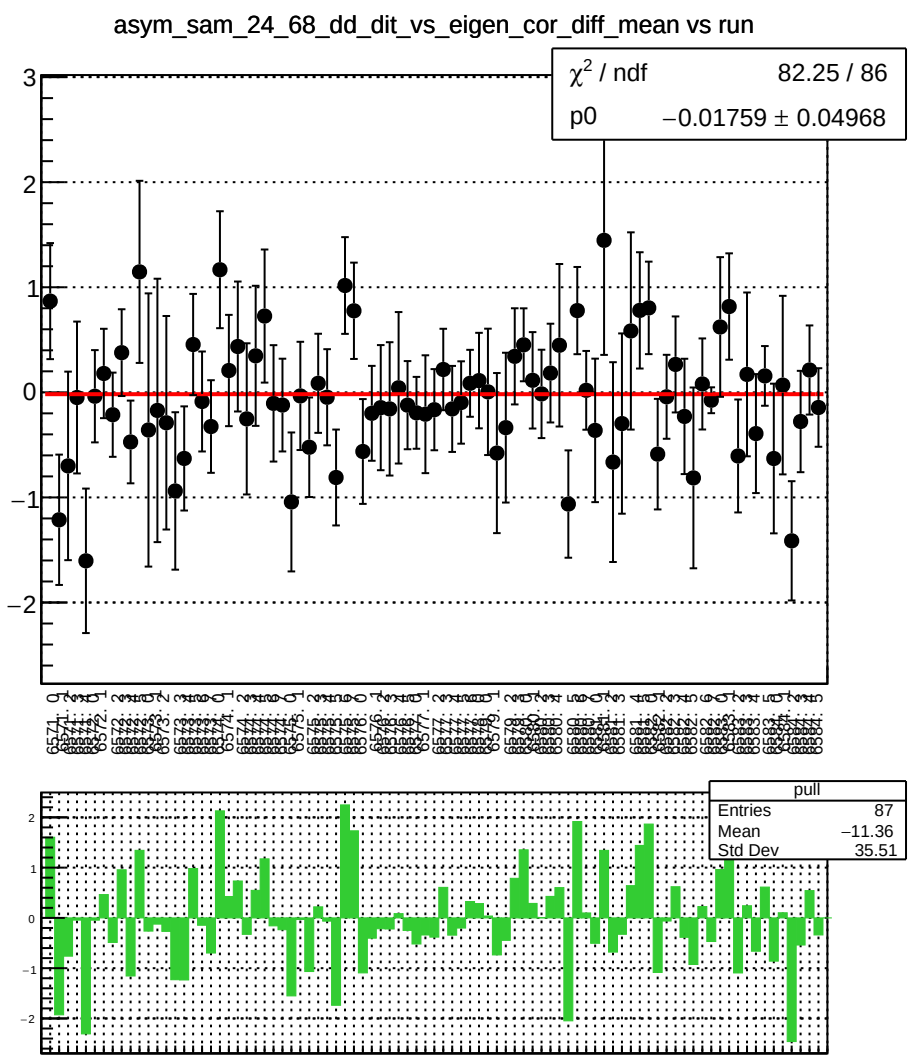

pull1D
Entries 87
Mean −0.09326
Std Dev 0.9837
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

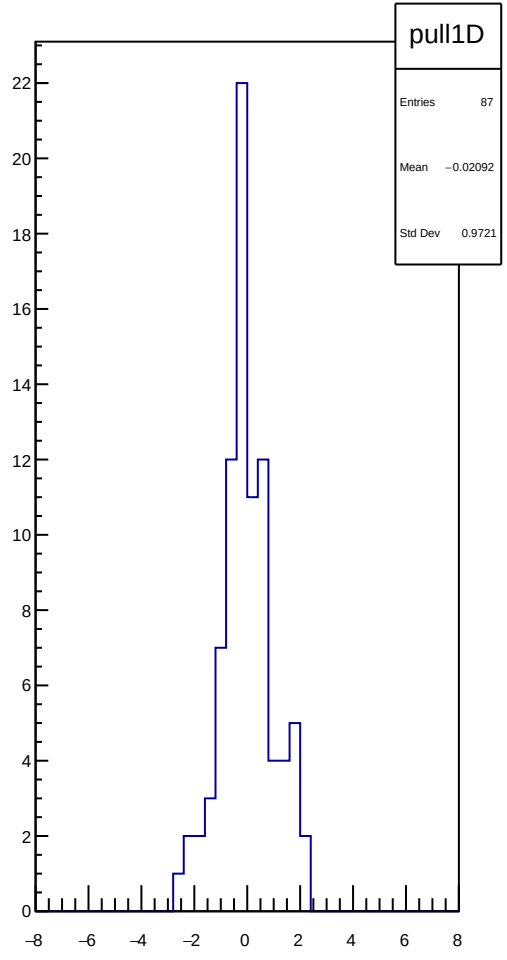

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.133e+06 / 86
p0 1.061e−11 ± 1.426e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

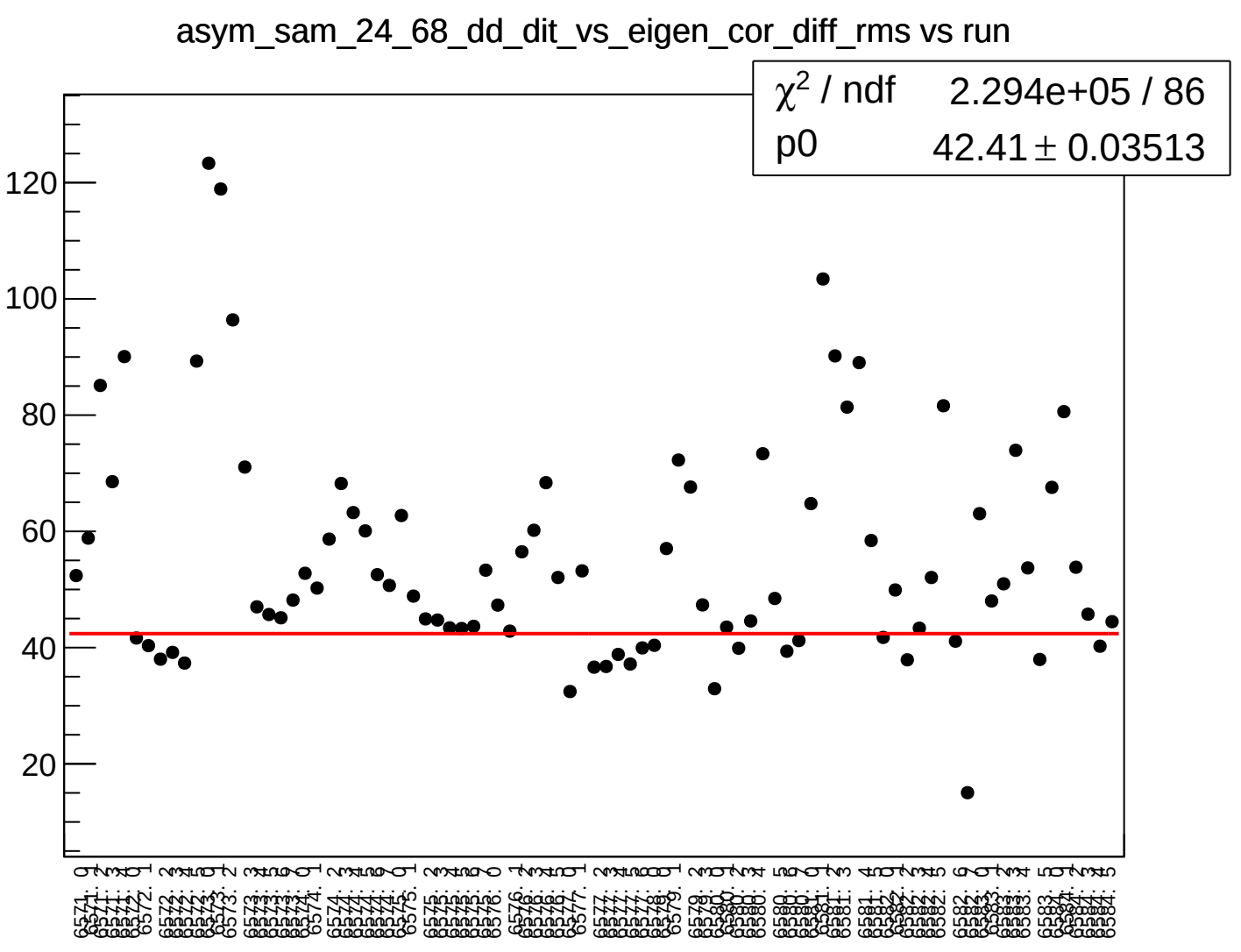

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.25 / 86
p0 −0.01759 ± 0.04968
pull
Entries 87
Mean −11.36
Std Dev 35.51

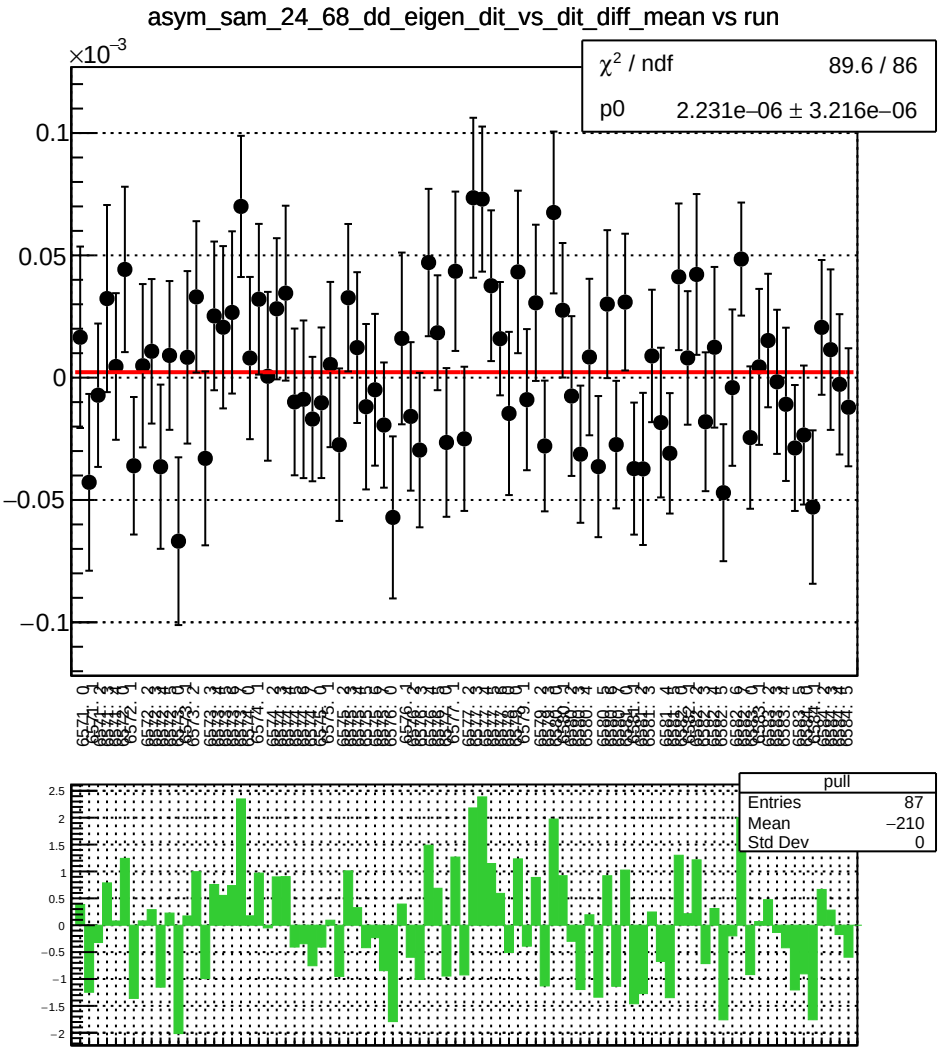

pull1D
Entries 87
Mean −0.02092
Std Dev 0.9721

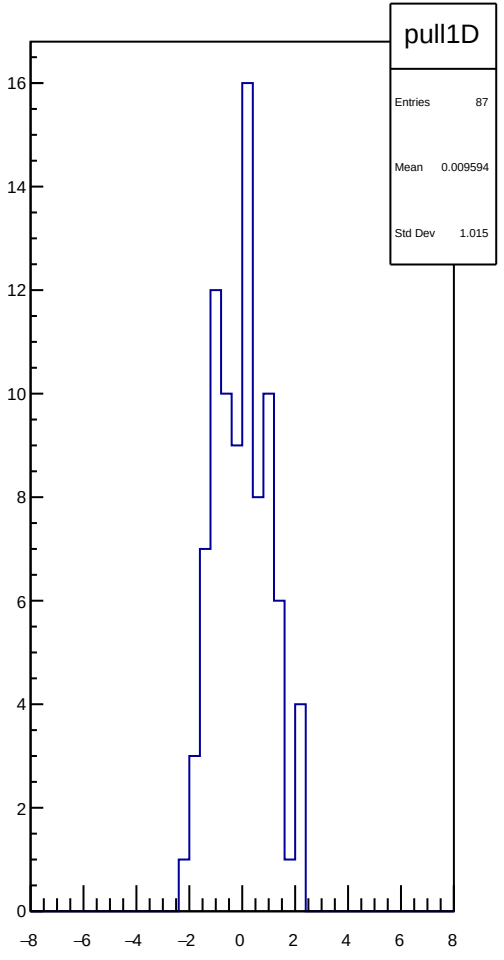

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.294e+05 / 86
p0 42.41 ± 0.03513
120
100
80
60
40
20

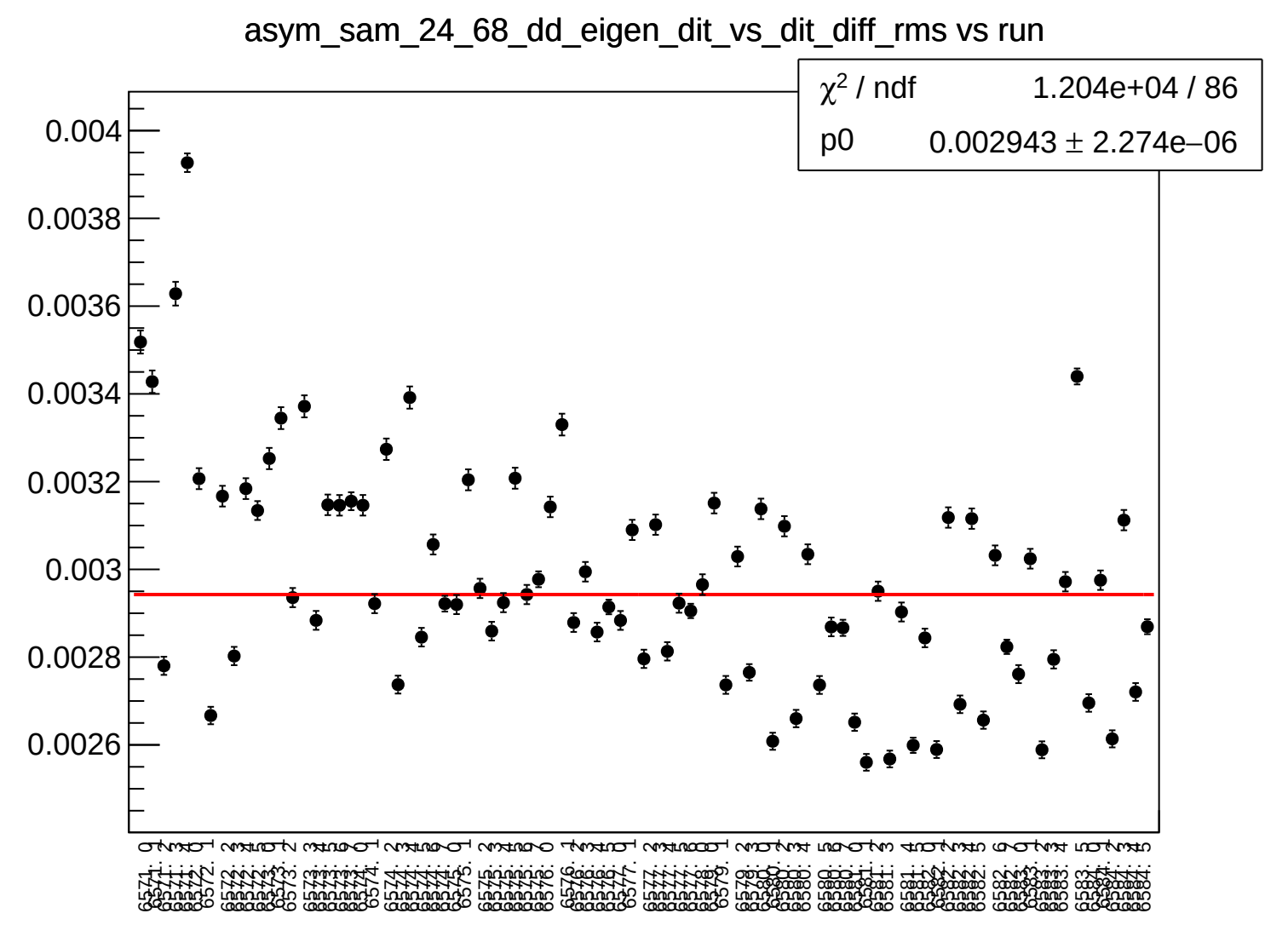

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.25 / 86
p0 −0.01759 ± 0.04968
pull
Entries 87
Mean −11.36
Std Dev 35.51

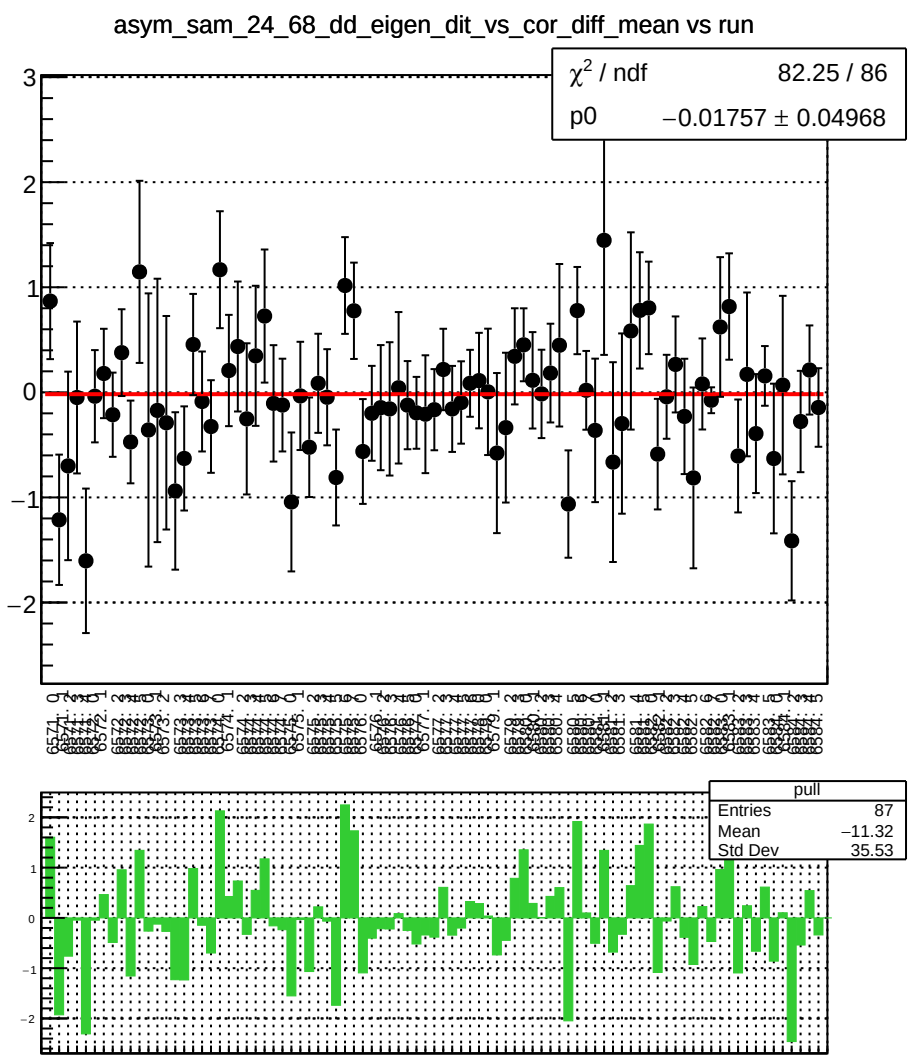

pull1D
Entries 87
Mean −0.02092
Std Dev 0.9721

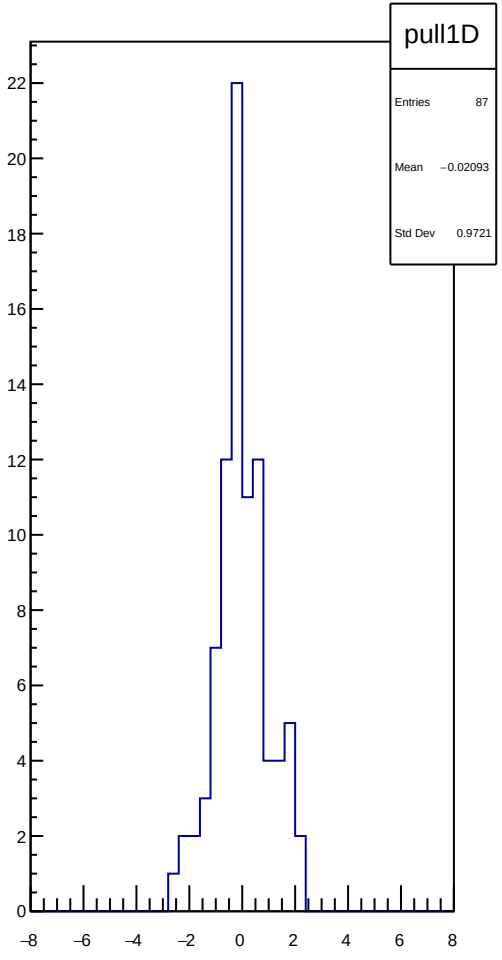

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.294e+05 / 86
p0 42.41 ± 0.03513
120
100
80
60
40
20

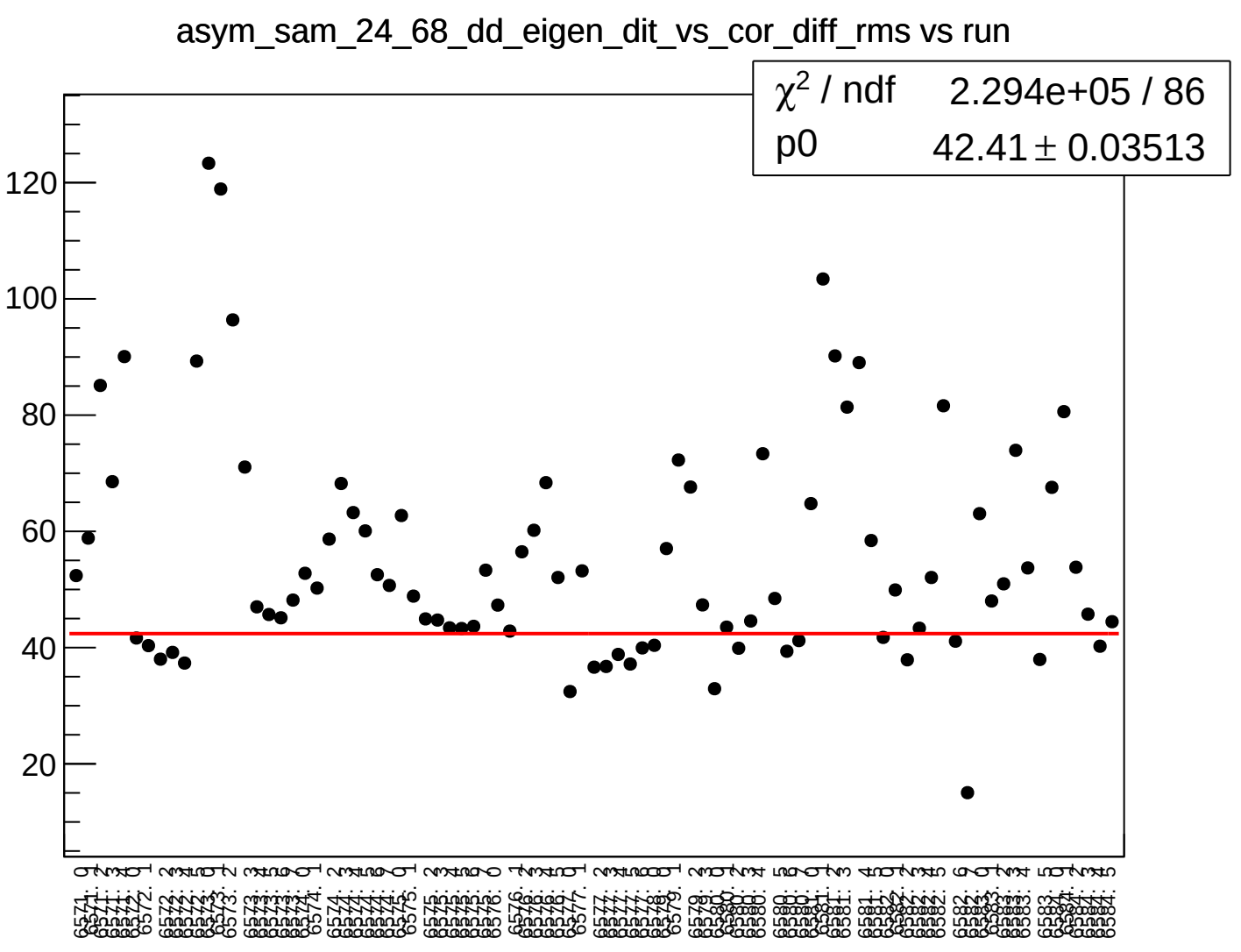

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.6 / 86
p0 2.231e−06 ± 3.216e−06
pull
Entries 87
Mean −210
Std Dev 0

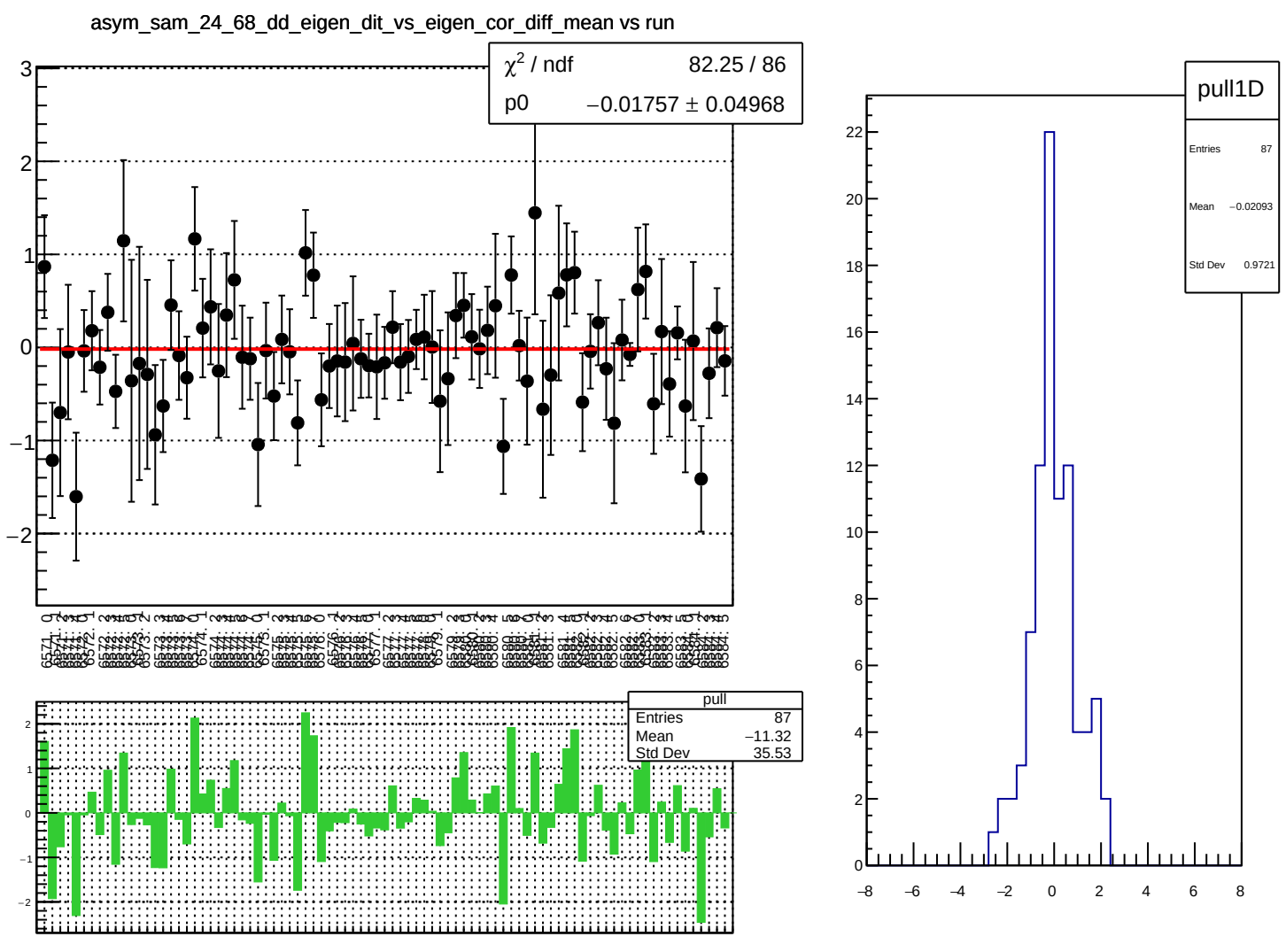

pull1D
Entries 87
Mean 0.009594
Std Dev 1.015

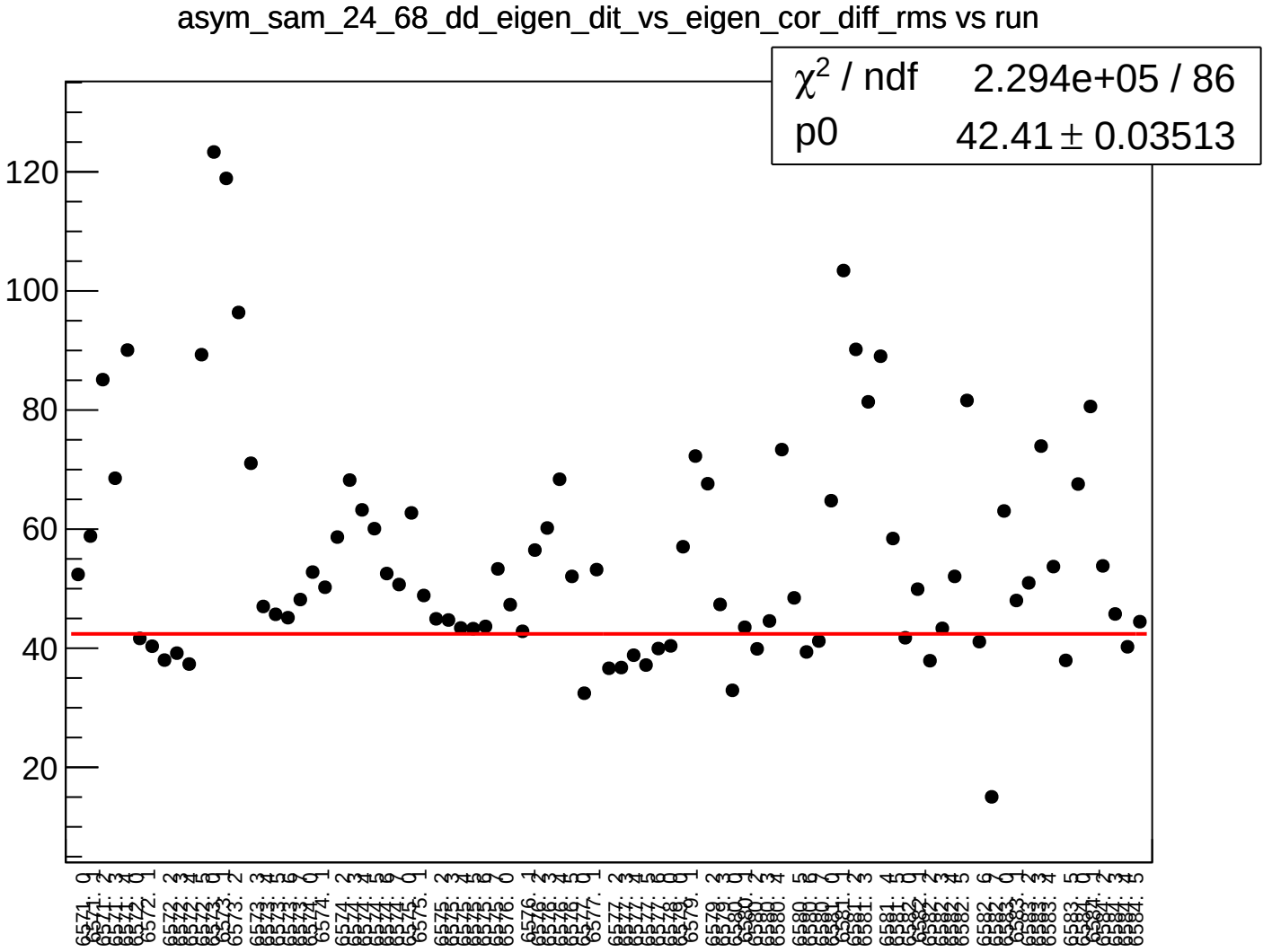

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.204e+04 / 86
p0 0.002943 ± 2.274e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

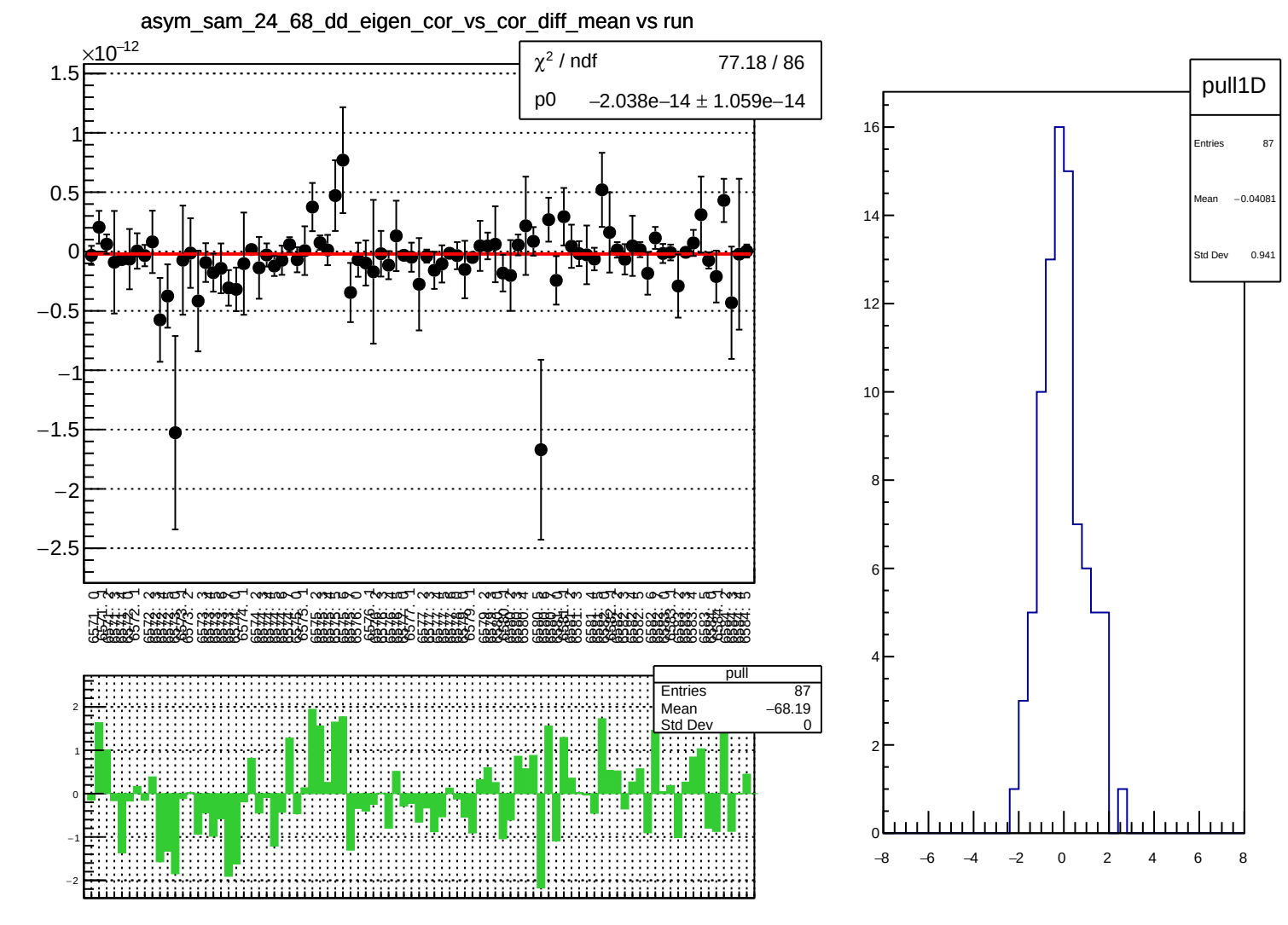

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.25 / 86
p0 −0.01757 ± 0.04968
pull
Entries 87
Mean −11.32
Std Dev 35.53

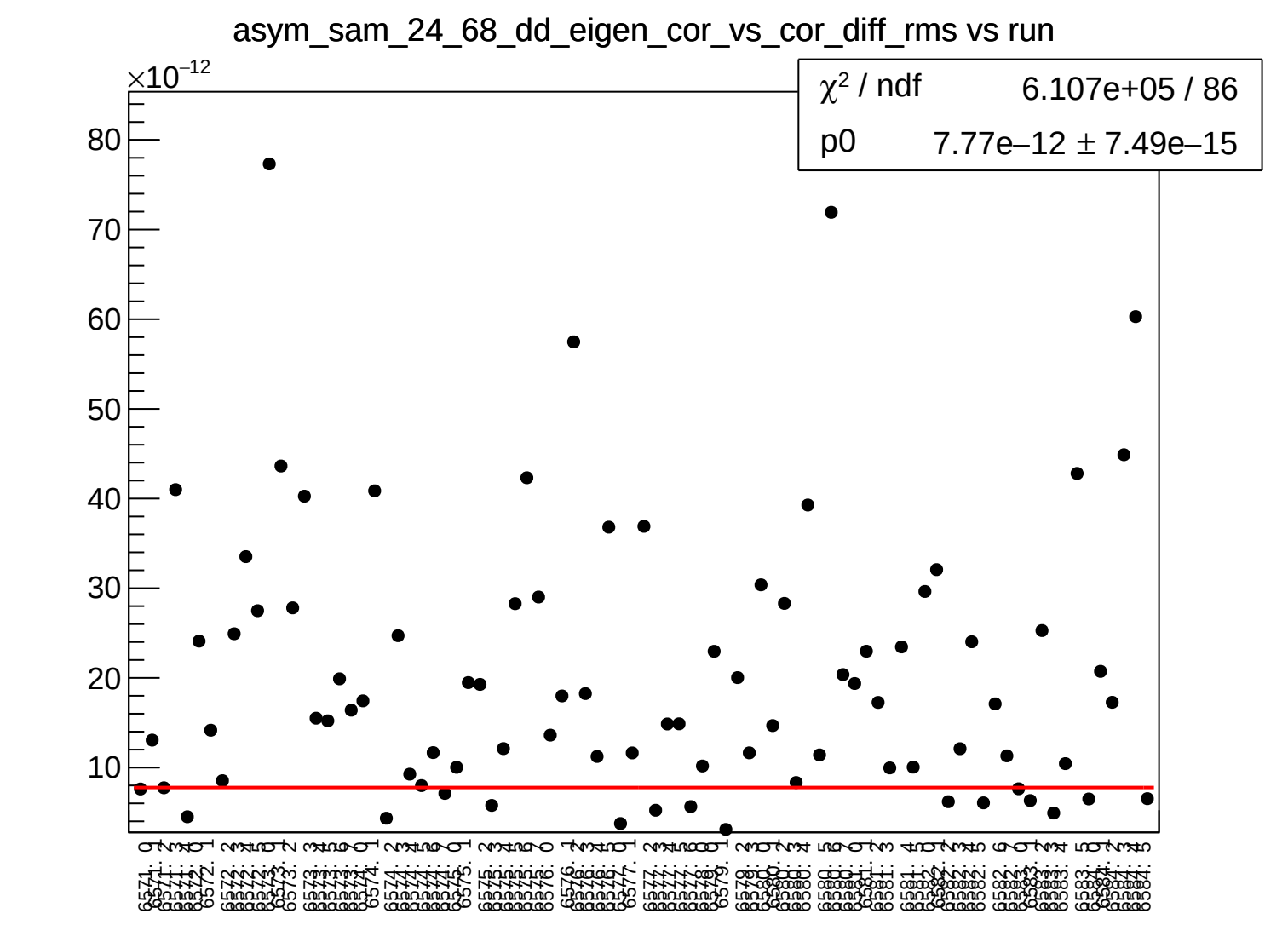

pull1D
Entries 87
Mean −0.02093
Std Dev 0.9721

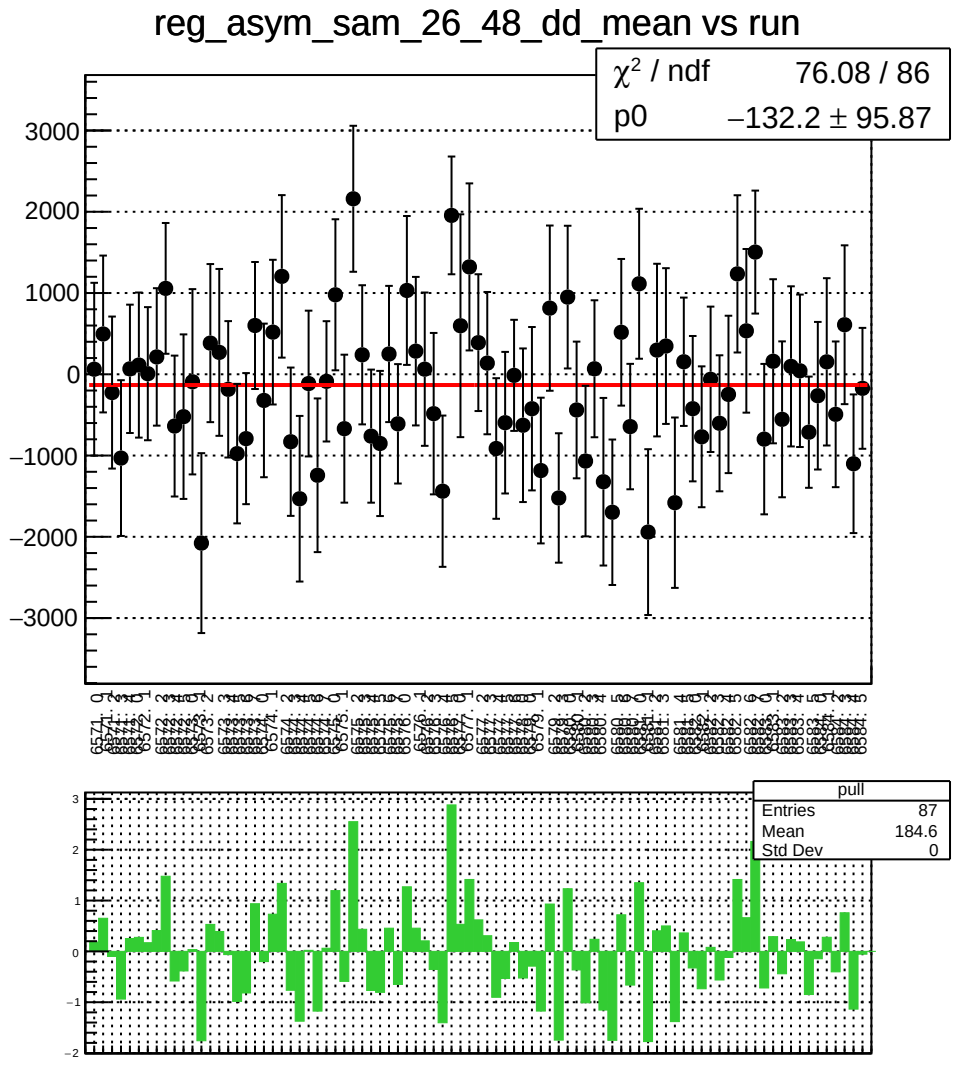

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.294e+05 / 86
p0 42.41 ± 0.03513
120
100
80
60
40
20

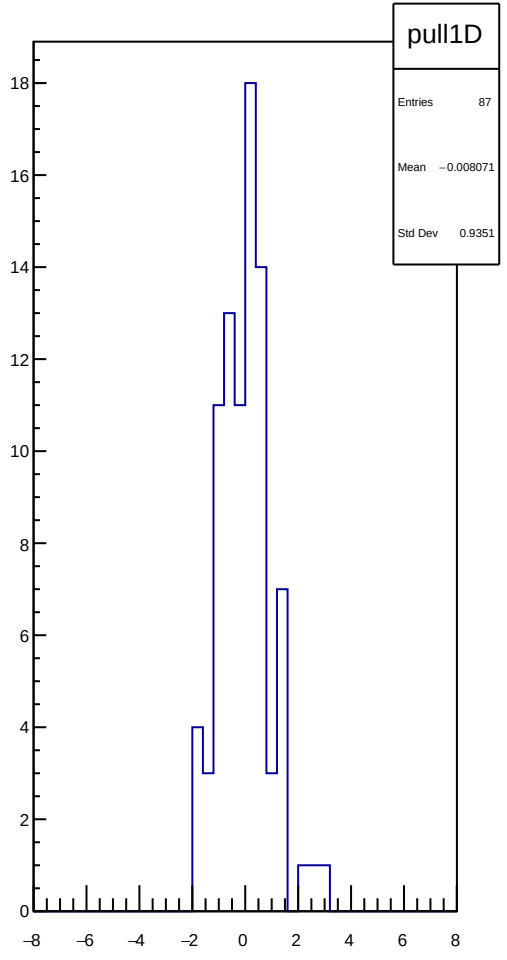

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.25 / 86
p0 −0.01757 ± 0.04968
pull
Entries 87
Mean −11.32
Std Dev 35.53
pull1D
Entries 87
Mean −0.02093
Std Dev 0.9721

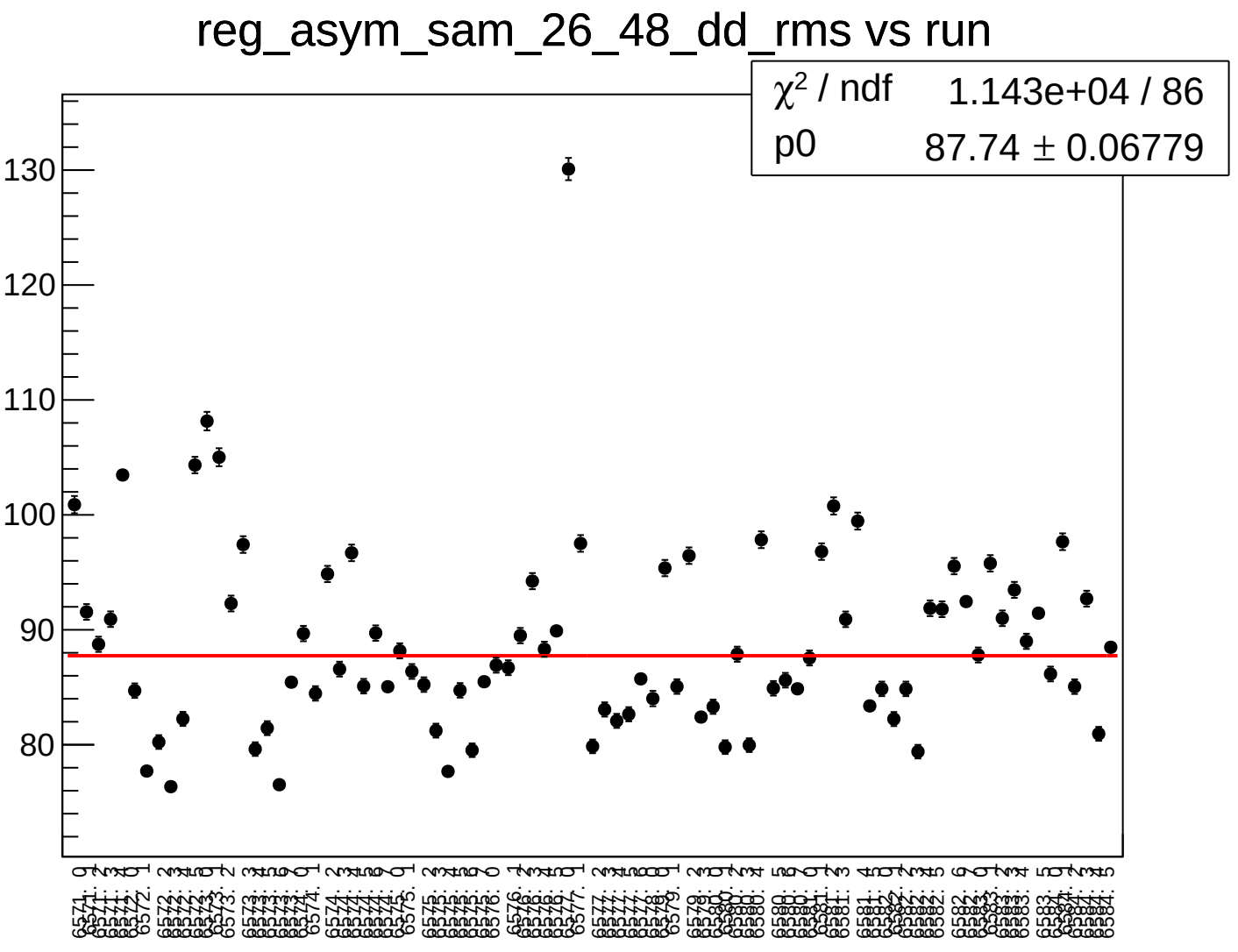

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.294e+05 / 86
p0 42.41 ± 0.03513
120
100
80
60
40
20

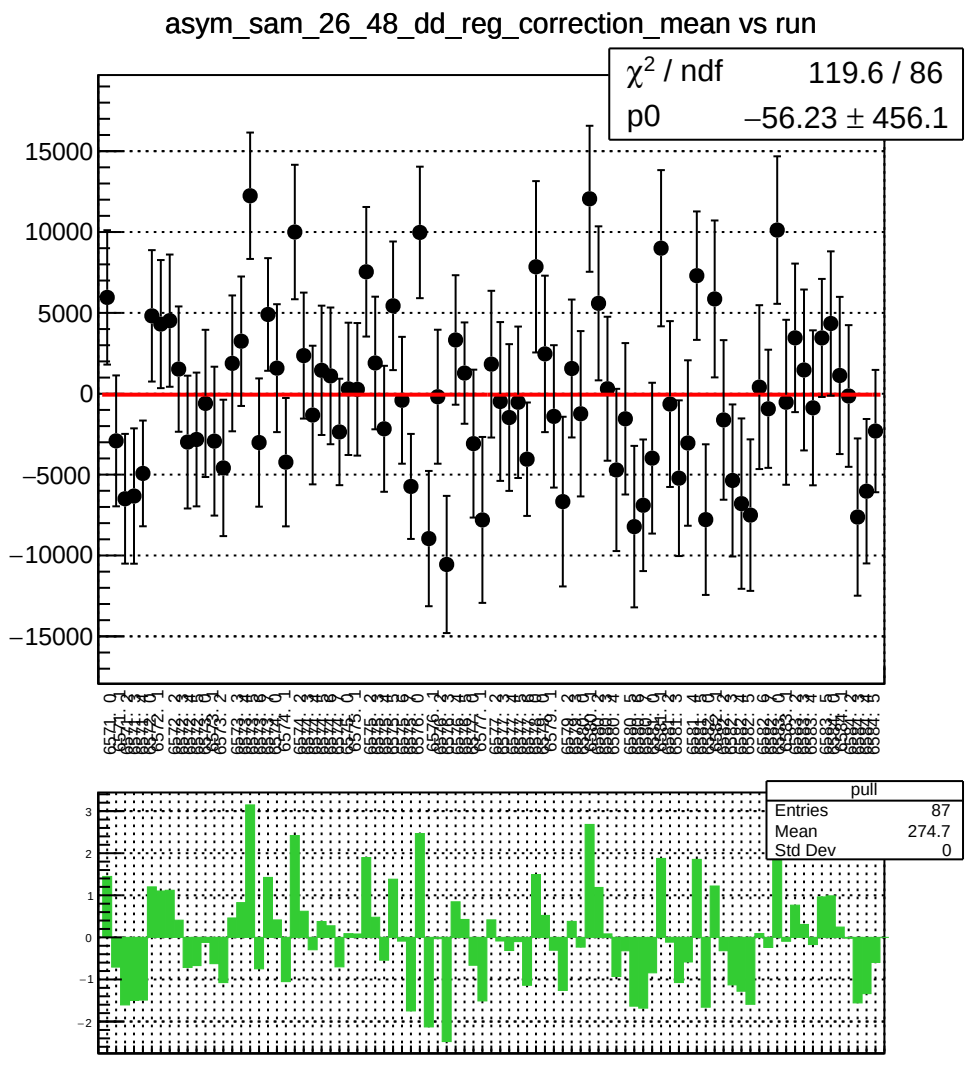

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.18 / 86
p0 −2.038e−14 ± 1.059e−14
pull
Entries 87
Mean −68.19
Std Dev 0
pull1D
Entries 87
Mean −0.04081
Std Dev 0.941

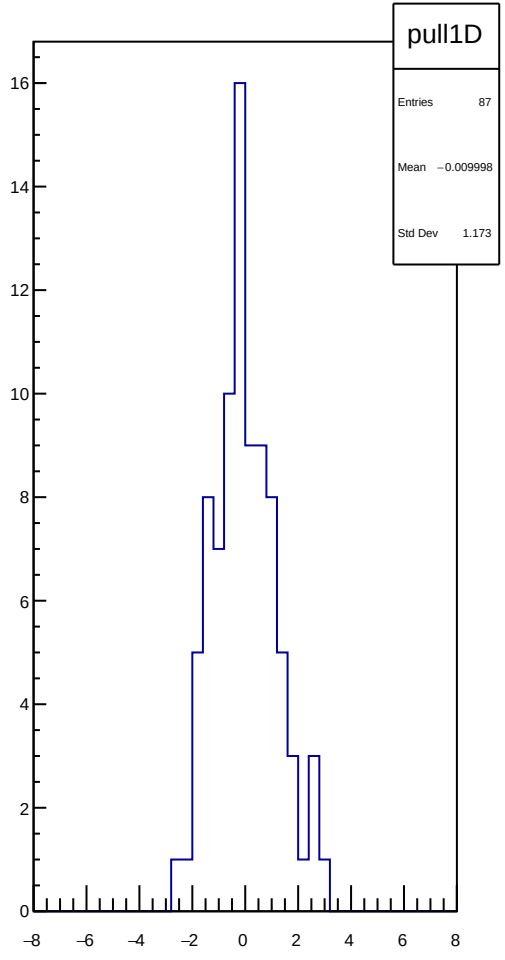

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.107e+05 / 86
p0 7.77e−12 ± 7.49e−15
80
70
60
50
40
30
20
10

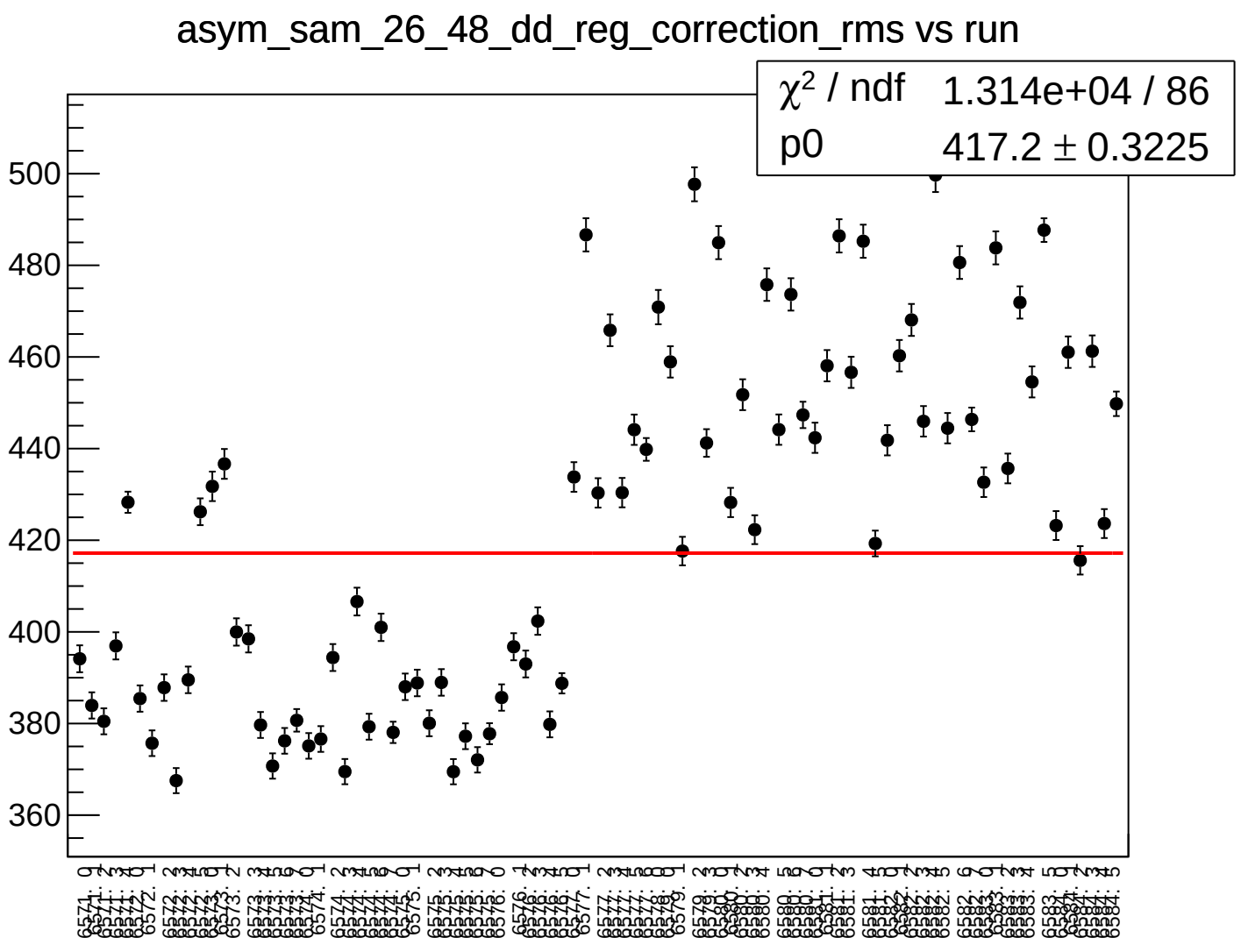

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 76.08 / 86
p0 −132.2 ± 95.87
pull
Entries 87
Mean 184.6
Std Dev 0

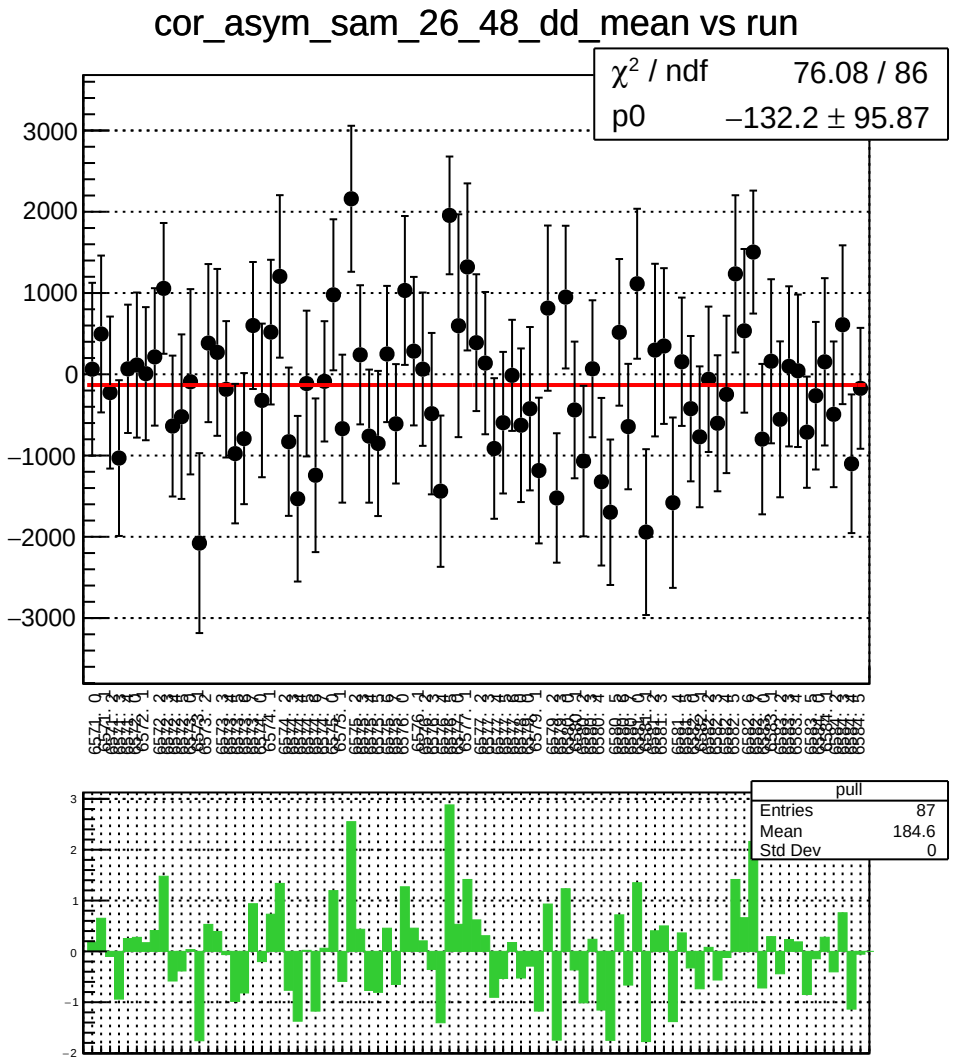

pull1D
Entries 87
Mean −0.008071
Std Dev 0.9351

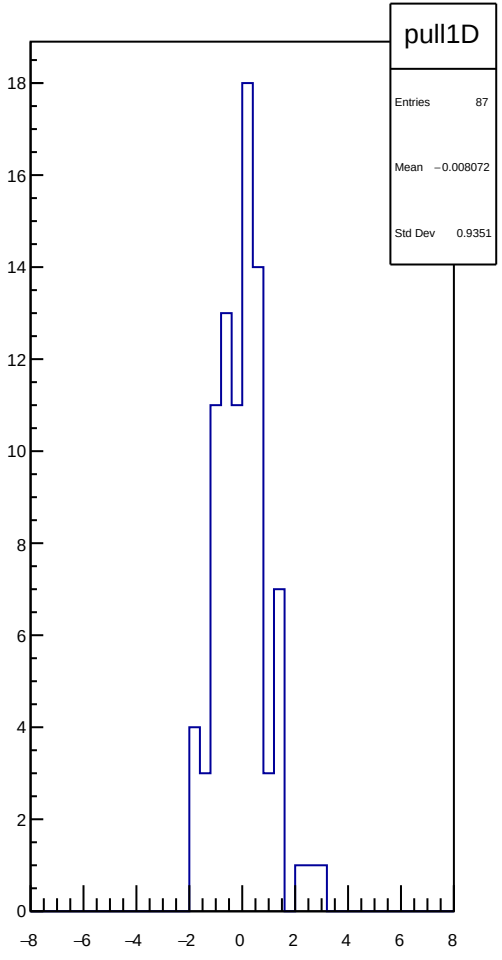

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.143e+04 / 86
p0 87.74 ± 0.06779
130
120
110
100
90
80

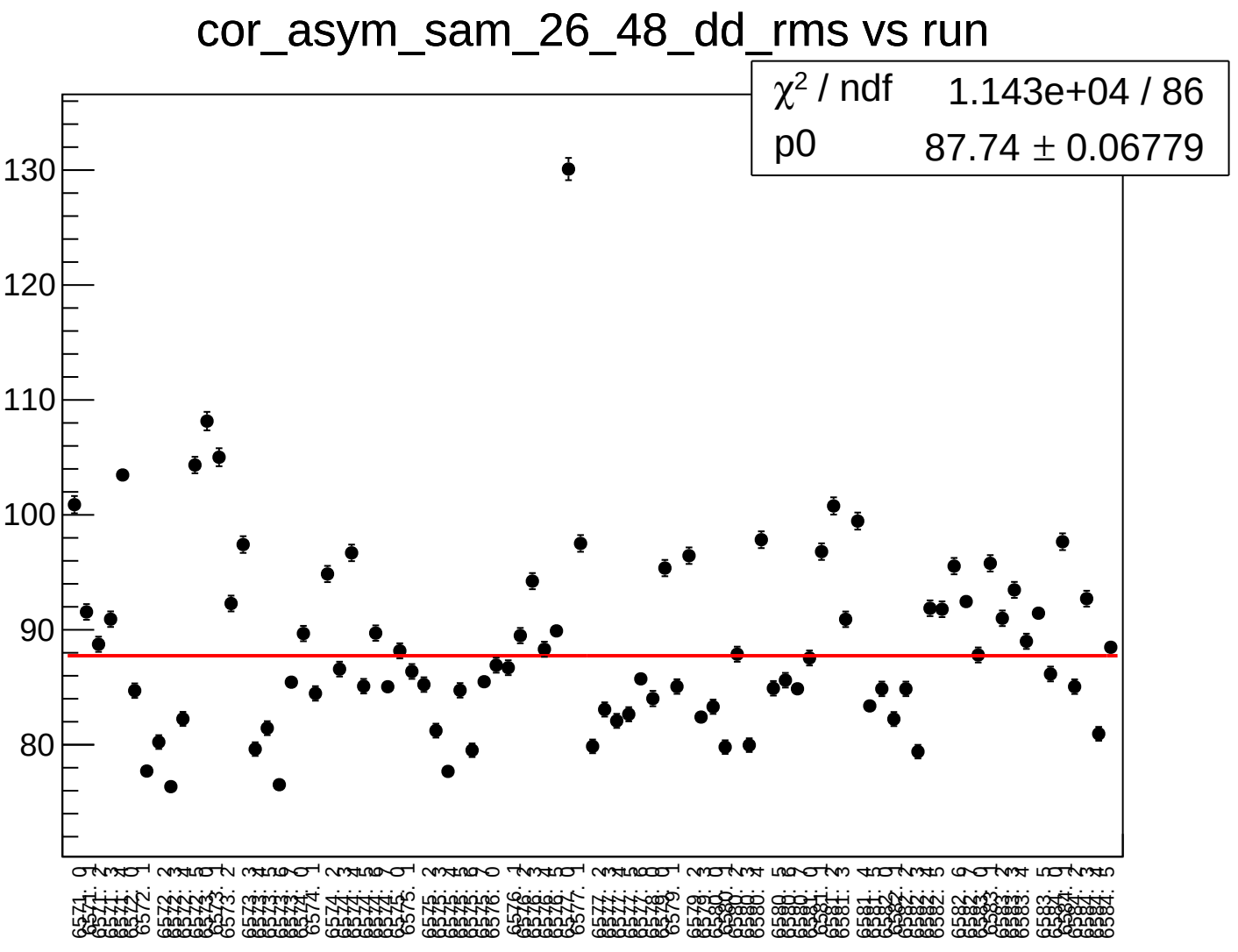

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 119.6 / 86
p0 −56.23 ± 456.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 274.7
Std Dev 0
3
2
1
0
−1
−2

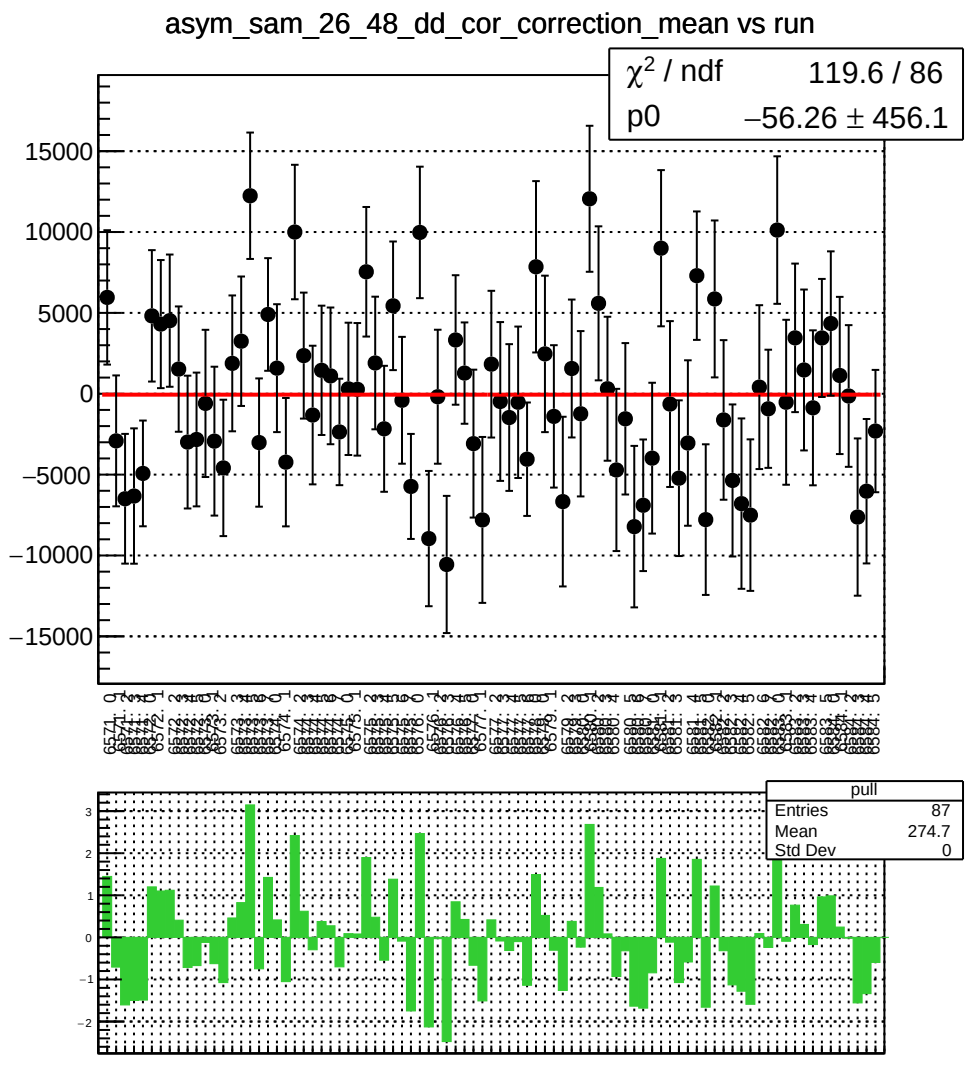

pull1D
Entries 87
Mean −0.009998
Std Dev 1.173
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

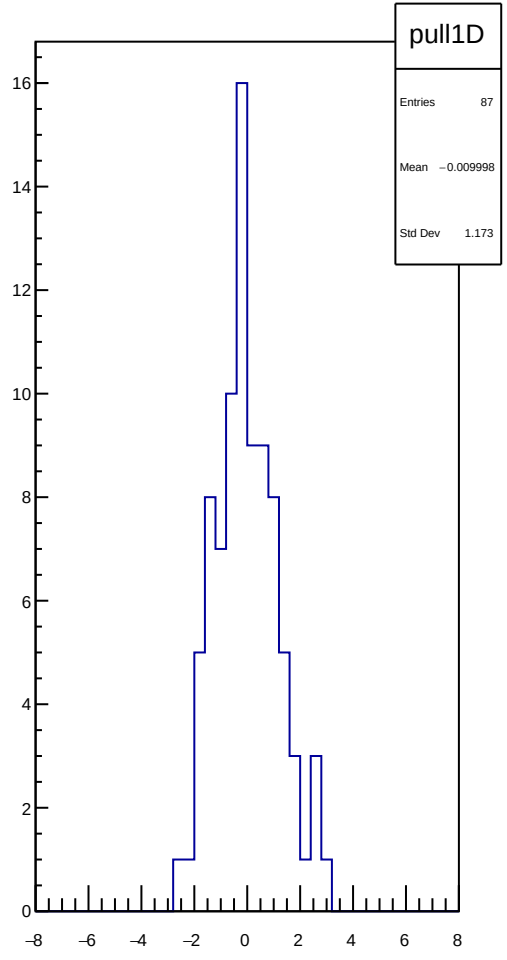

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.314e+04 / 86
p0 417.2 ± 0.3225
500
480
460
440
420
400
380
360

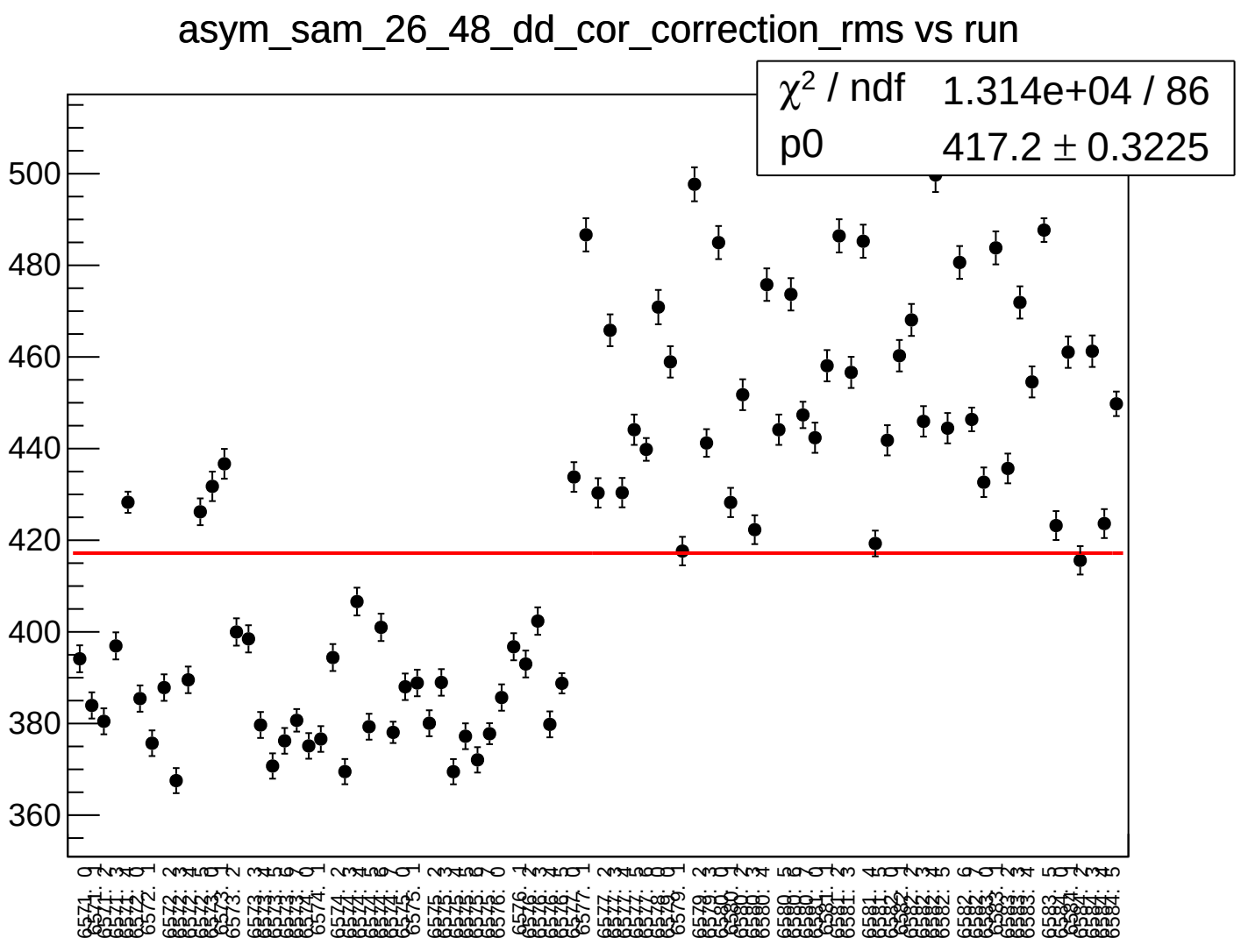

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 76.08 / 86
p0 −132.2 ± 95.87
pull
Entries 87
Mean 184.6
Std Dev 0

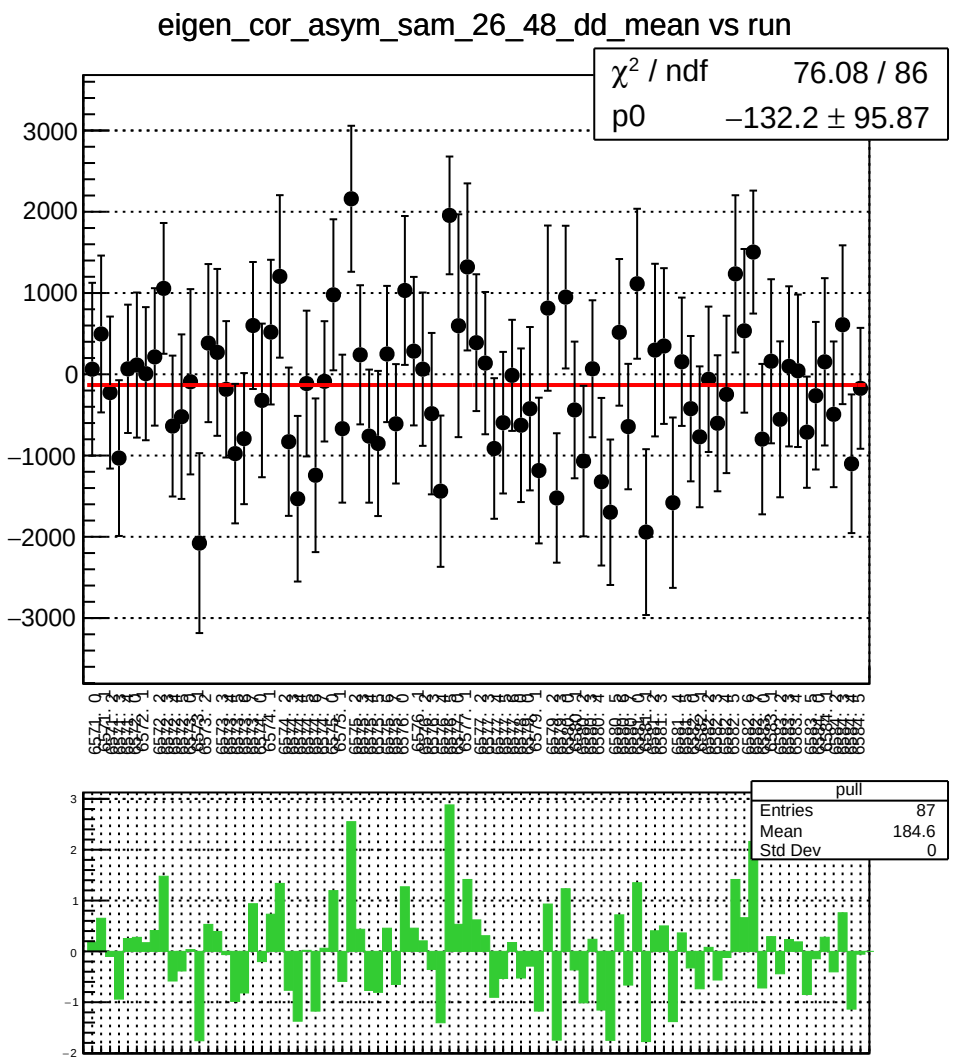

pull1D
Entries 87
Mean −0.008072
Std Dev 0.9351

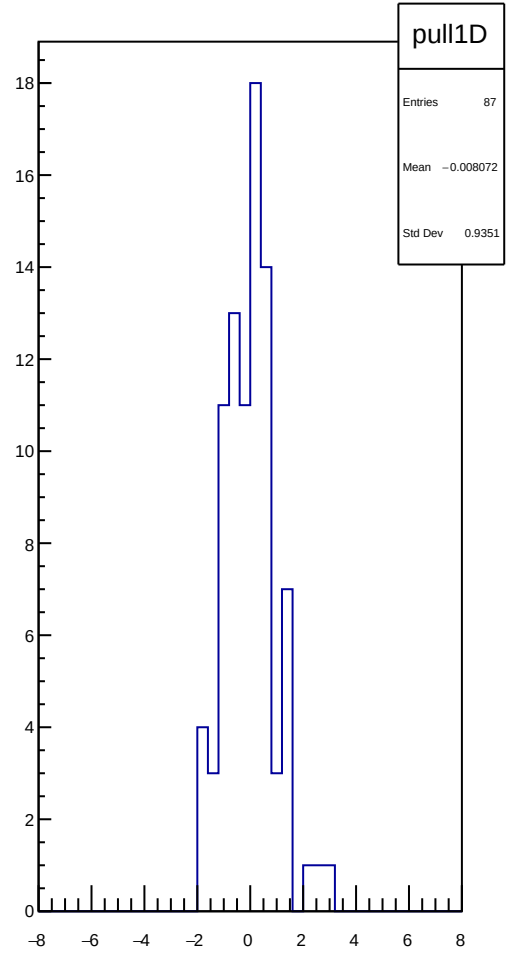

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.143e+04 / 86
p0 87.74 ± 0.06779
130
120
110
100
90
80

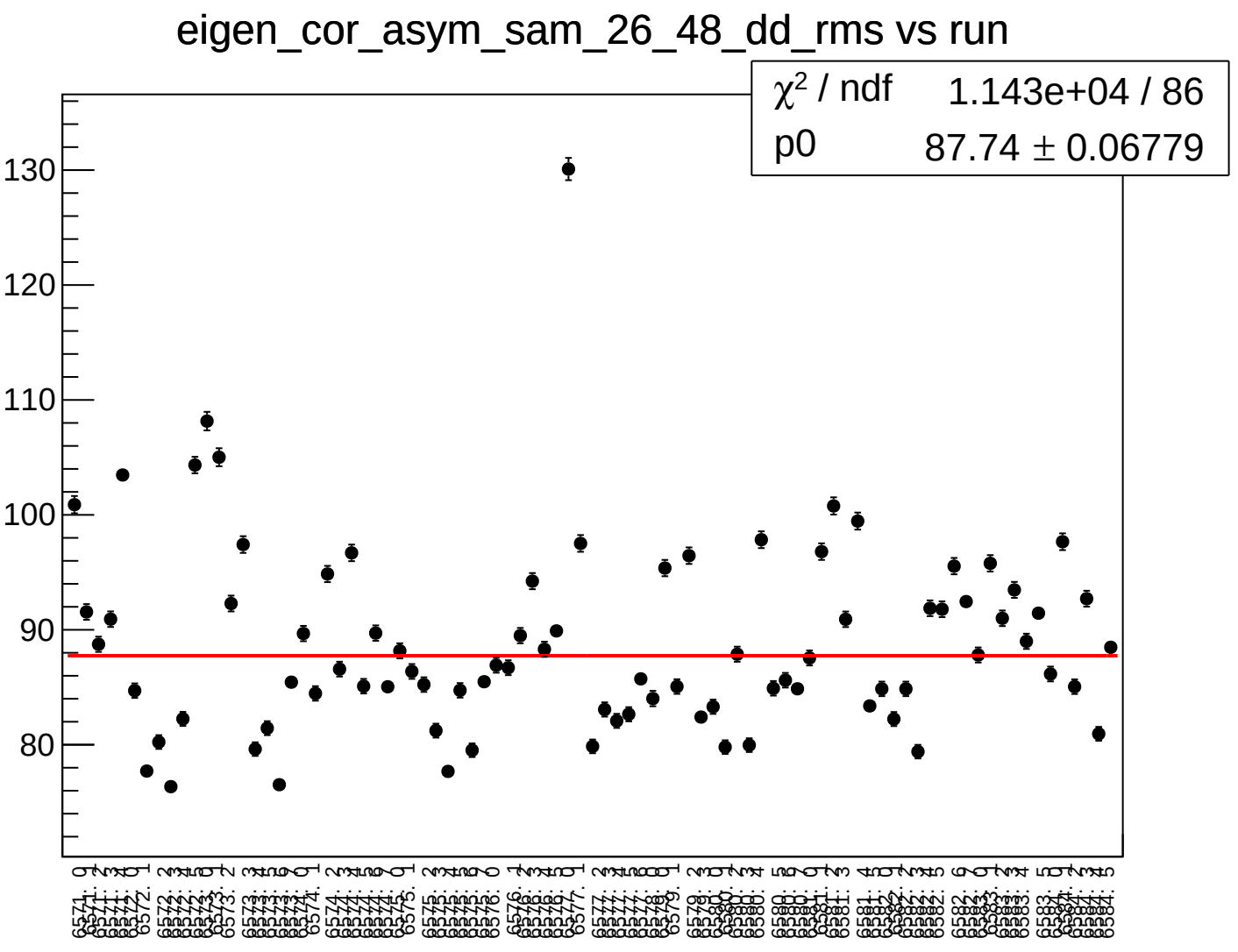

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 119.6 / 86
p0 −56.26 ± 456.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 274.7
Std Dev 0
3
2
1
0
−1
−2

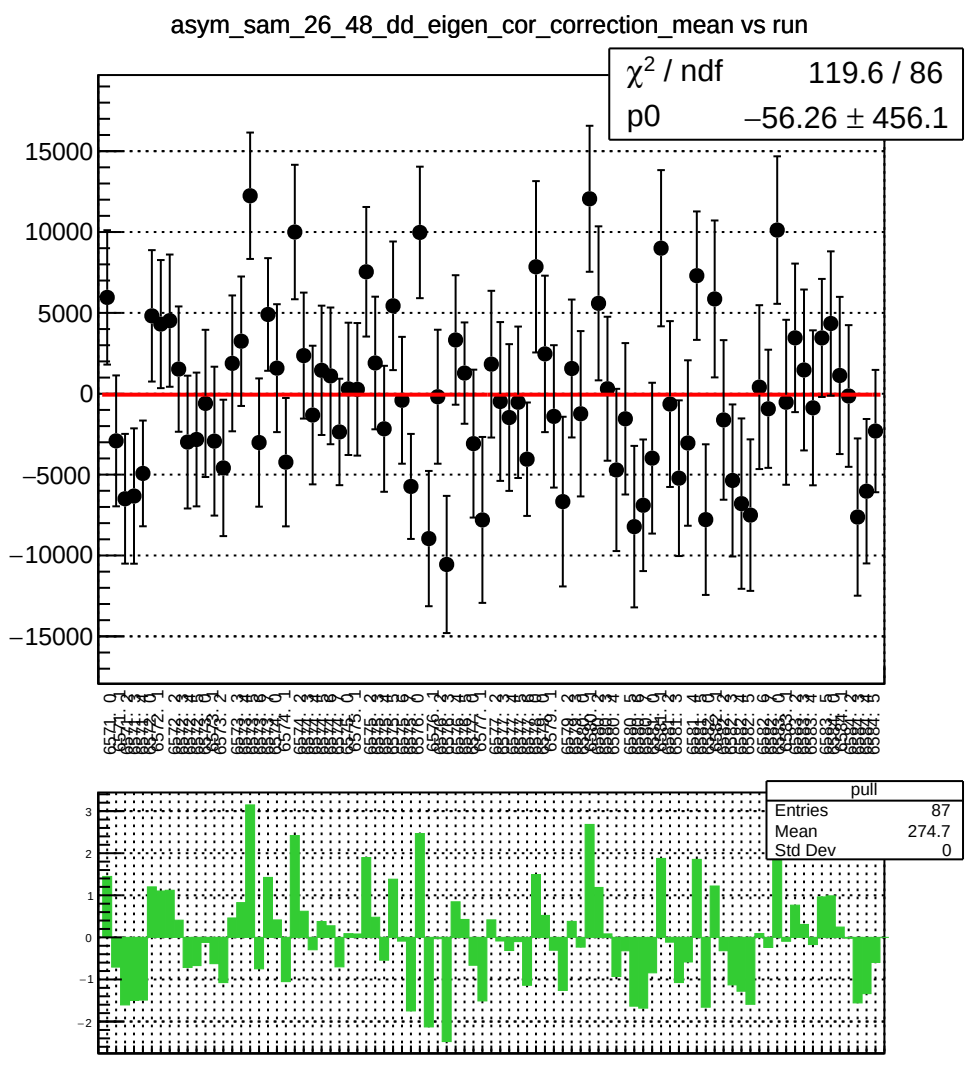

pull1D
Entries 87
Mean −0.009998
Std Dev 1.173
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

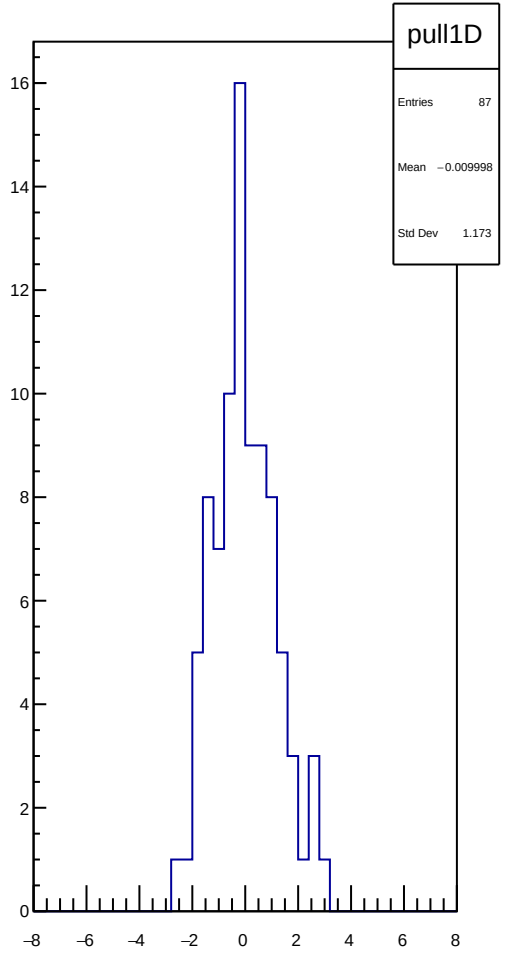

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.314e+04 / 86
p0 417.2 ± 0.3225
500
480
460
440
420
400
380
360

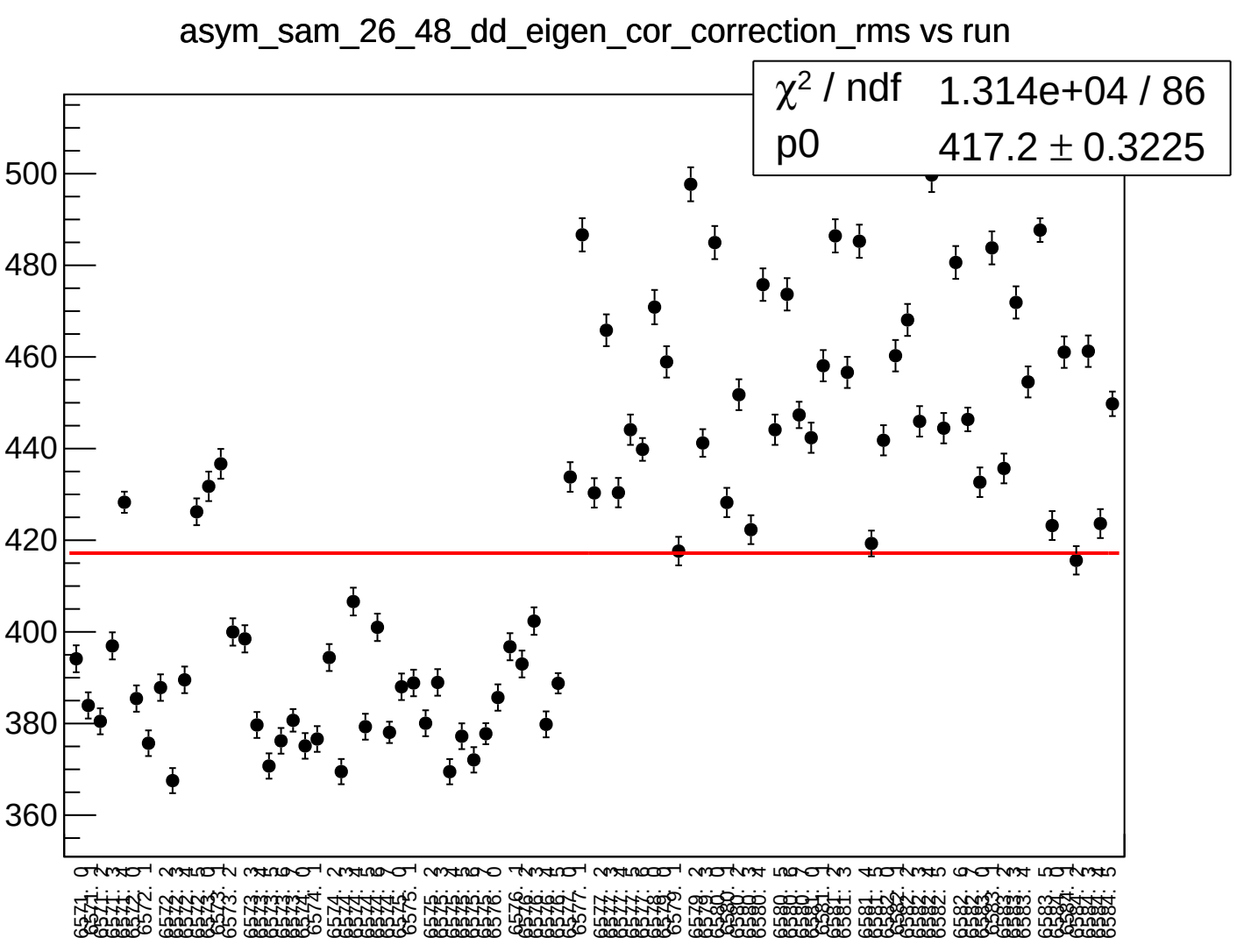

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 76.08 / 86
p0 −132.2 ± 95.87
pull
Entries 87
Mean 184.6
Std Dev 0

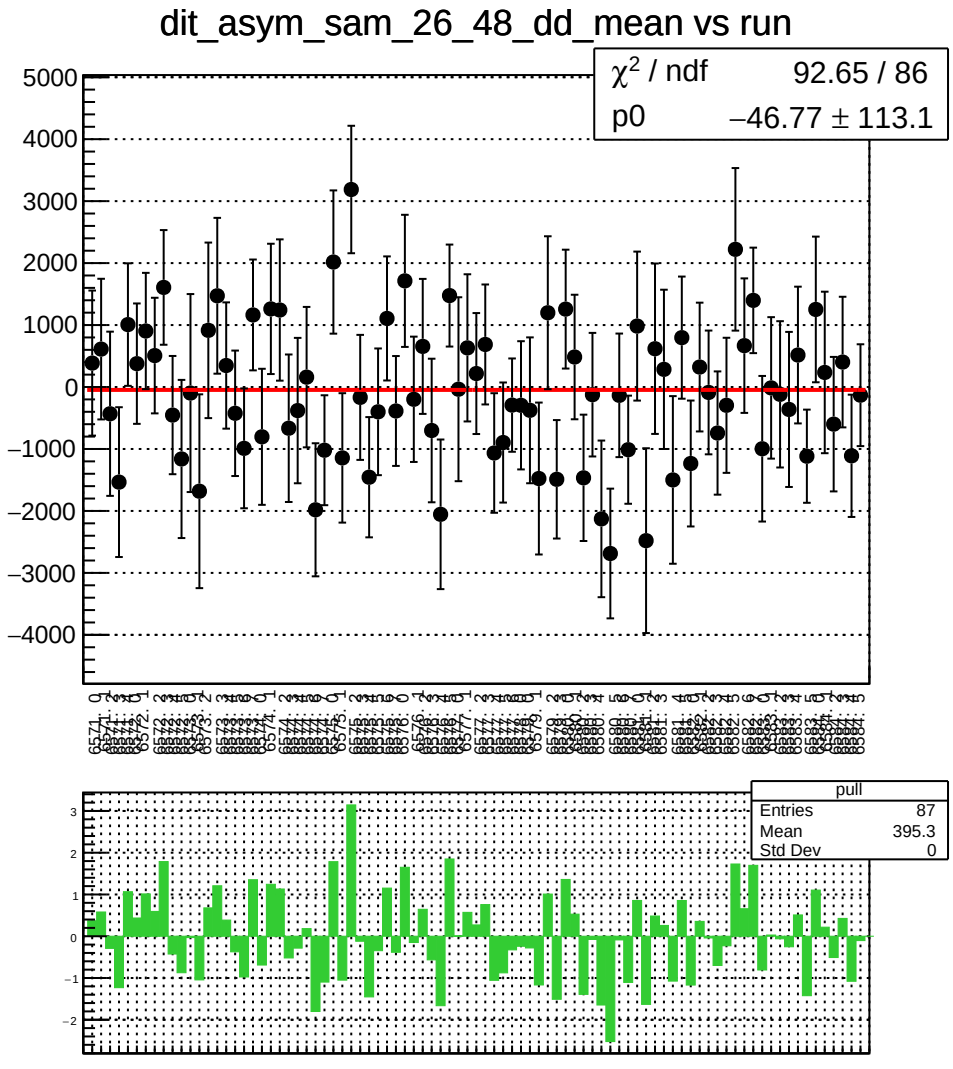

pull1D
Entries 87
Mean −0.008072
Std Dev 0.9351

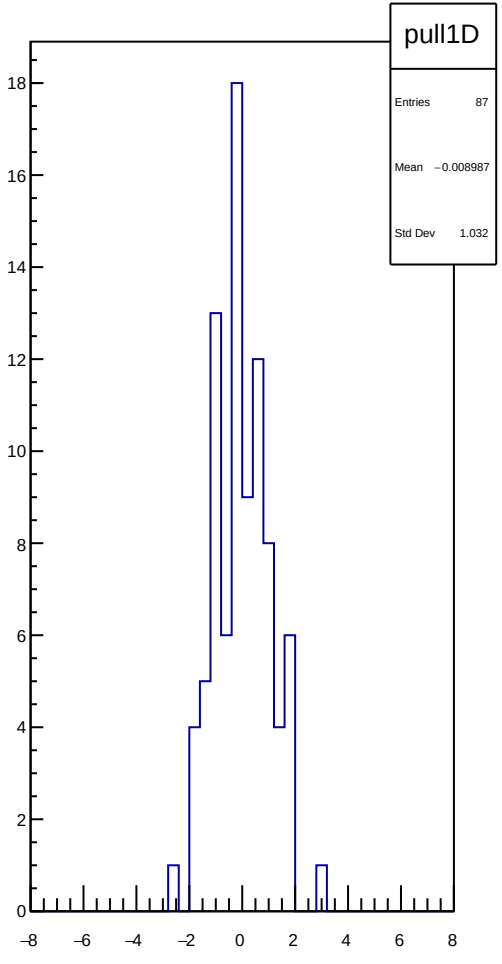

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.143e+04 / 86
p0 87.74 ± 0.06779
130
120
110
100
90
80

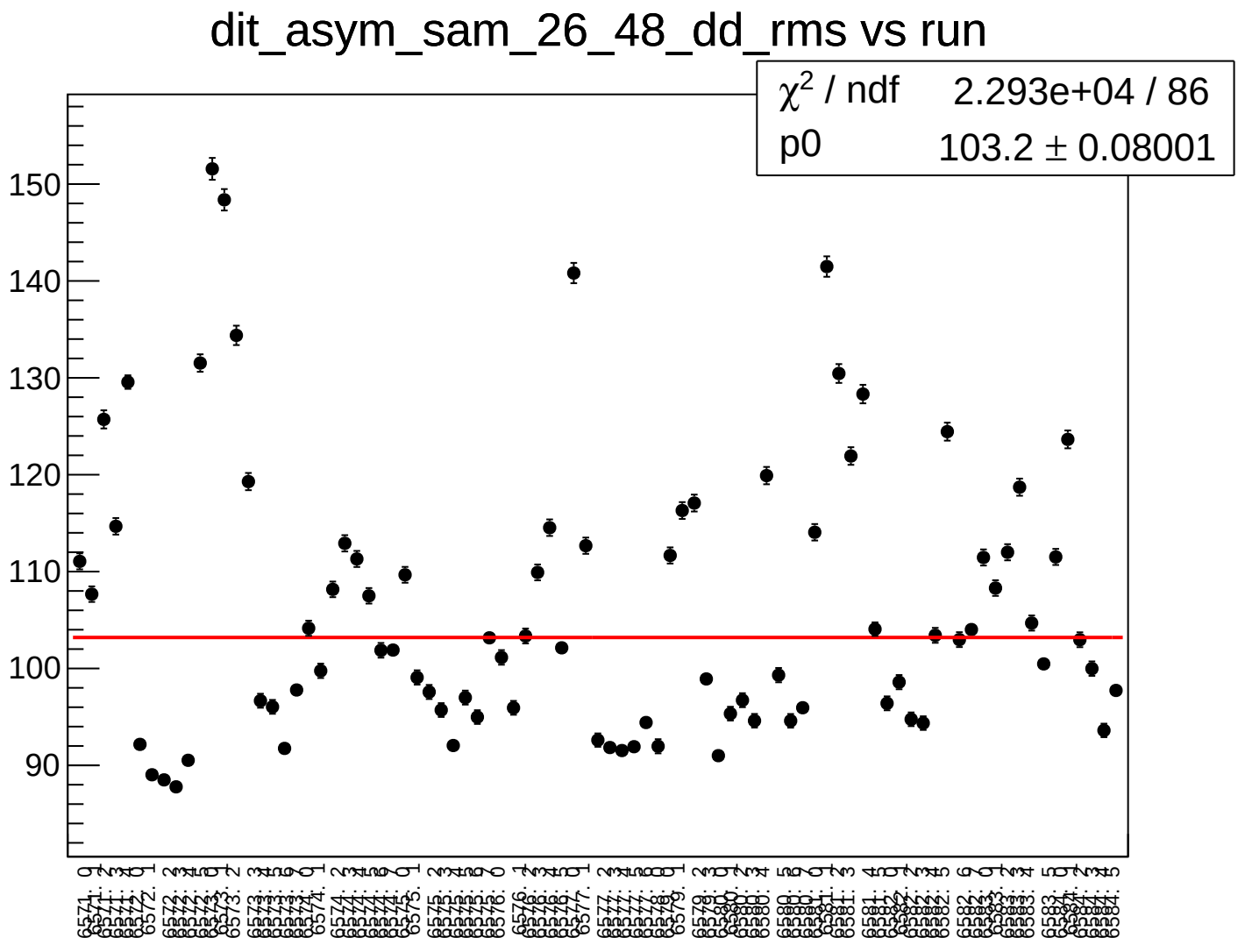

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 119.6 / 86
p0 −56.26 ± 456.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 274.7
Std Dev 0
3
2
1
0
−1
−2

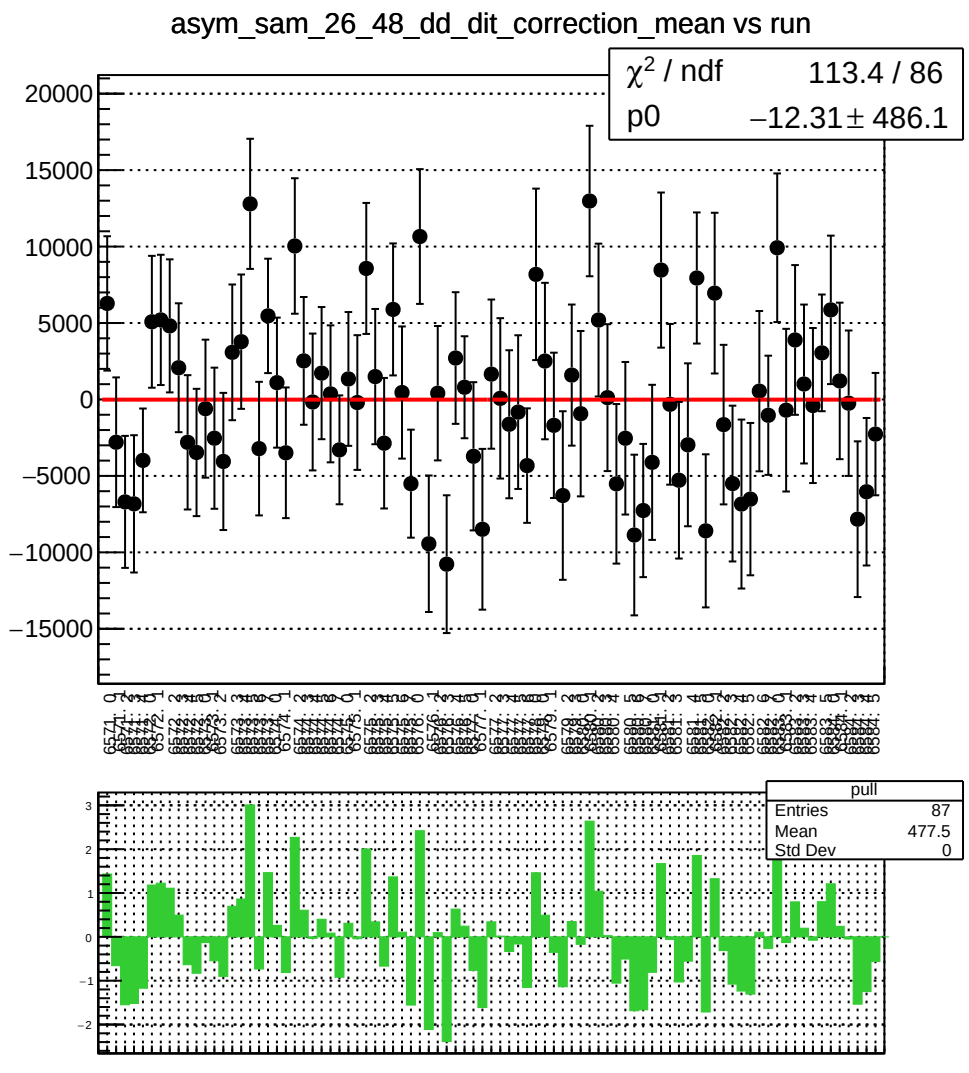

pull1D
Entries 87
Mean −0.009998
Std Dev 1.173
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

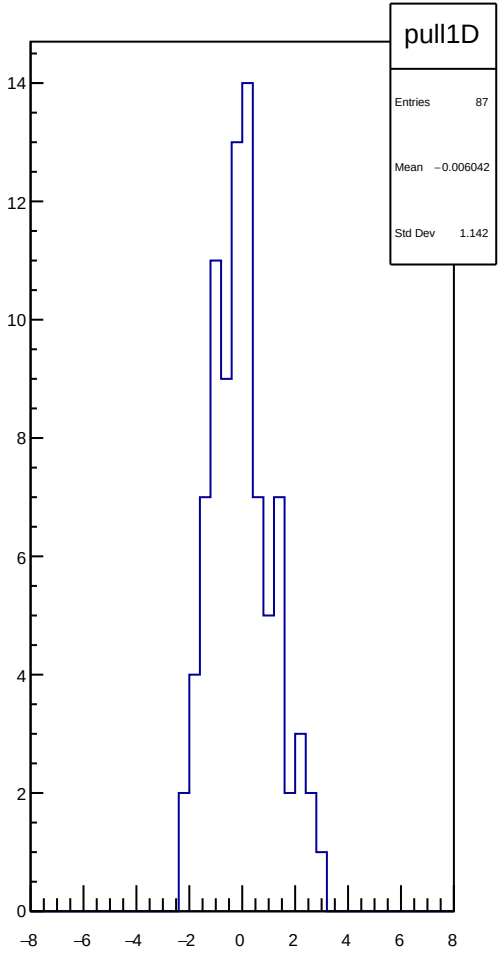

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.314e+04 / 86
p0 417.2 ± 0.3225
500
480
460
440
420
400
380
360

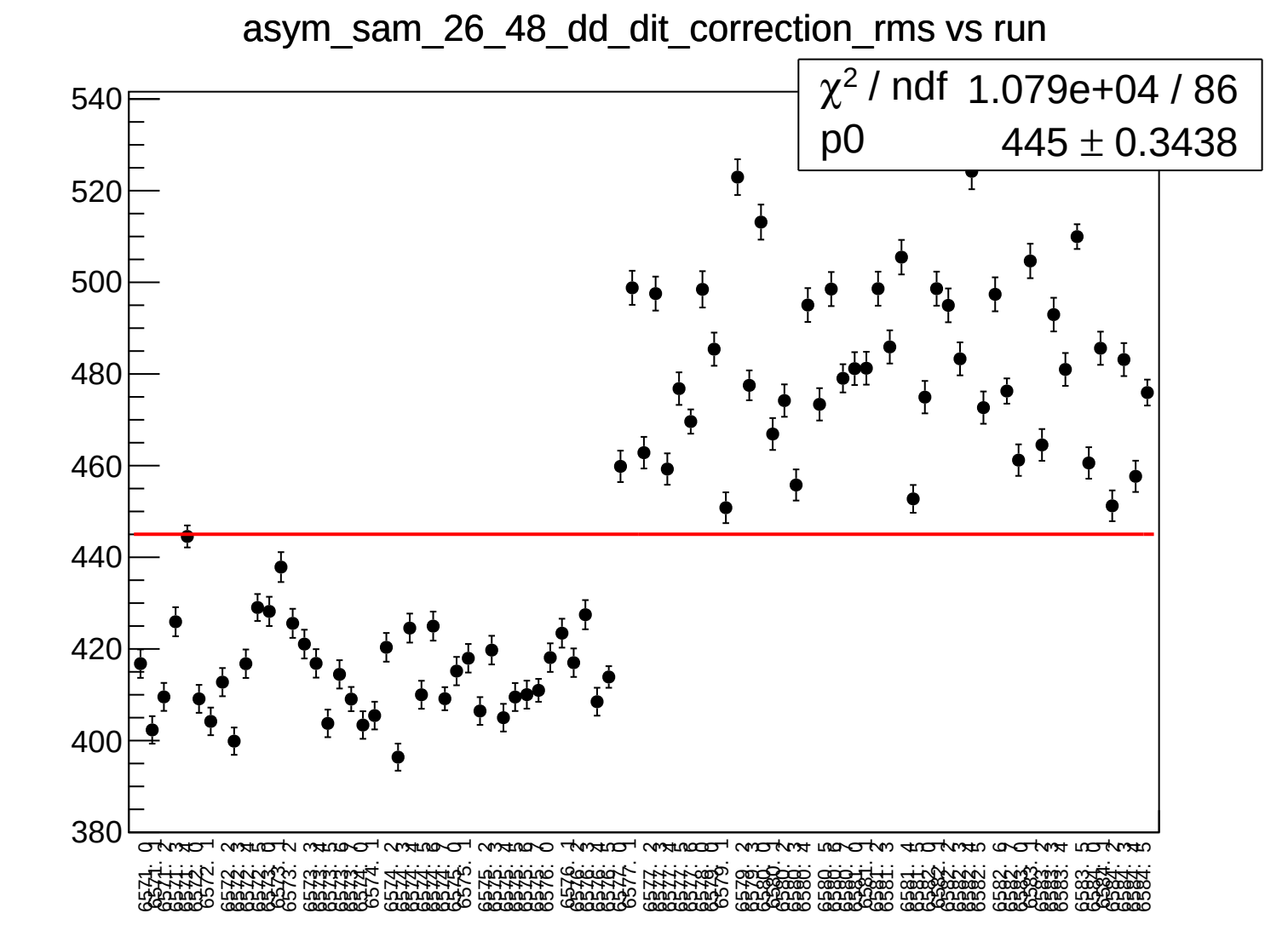

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 92.65 / 86
p0 −46.77 ± 113.1
pull
Entries 87
Mean 395.3
Std Dev 0

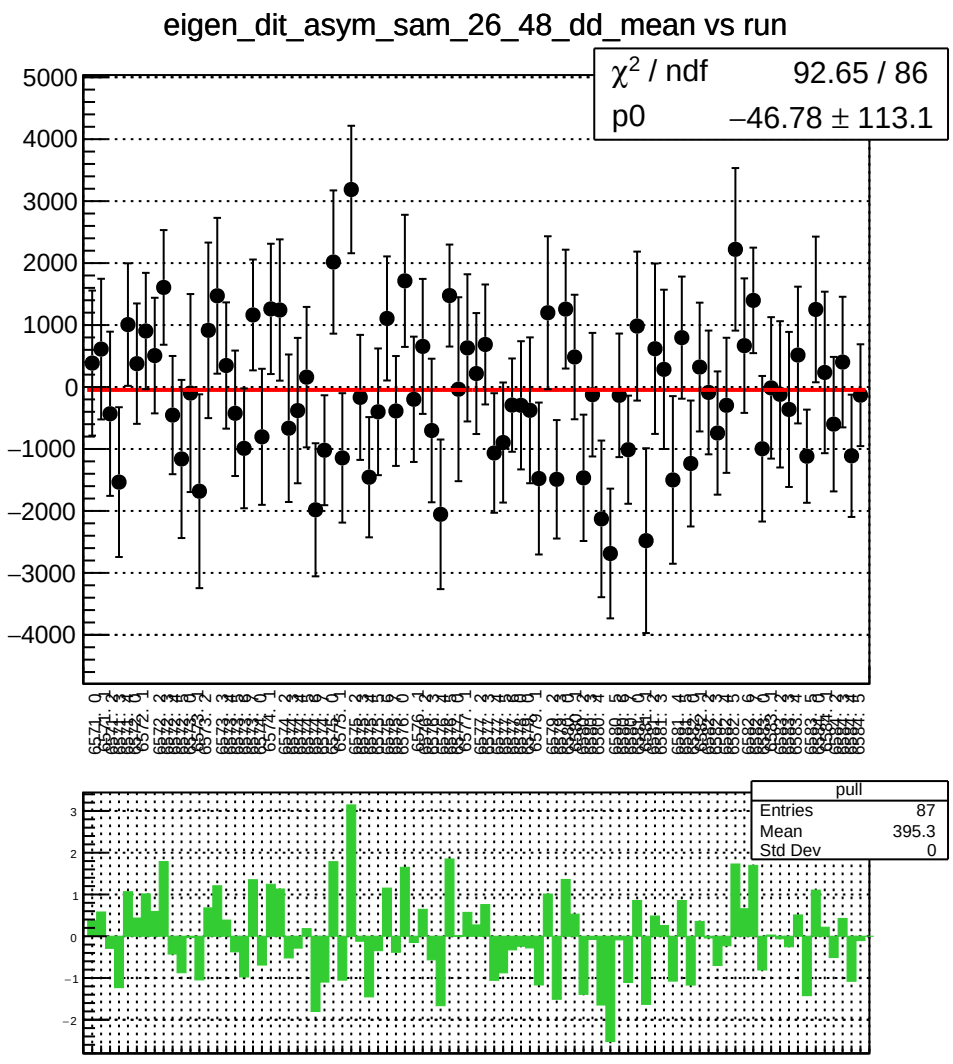

pull1D
Entries 87
Mean −0.008987
Std Dev 1.032

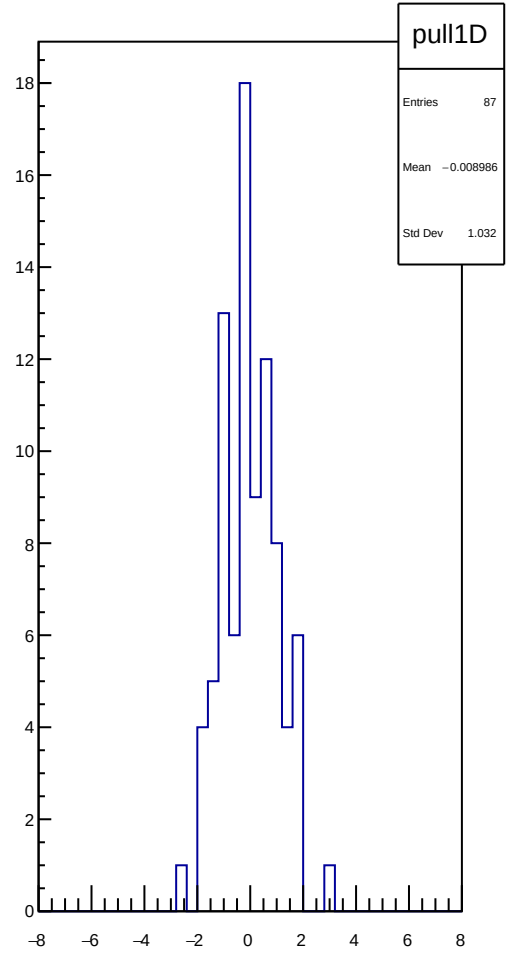

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2.293e+04 / 86
p0 103.2 ± 0.08001
150
140
130
120
110
100
90

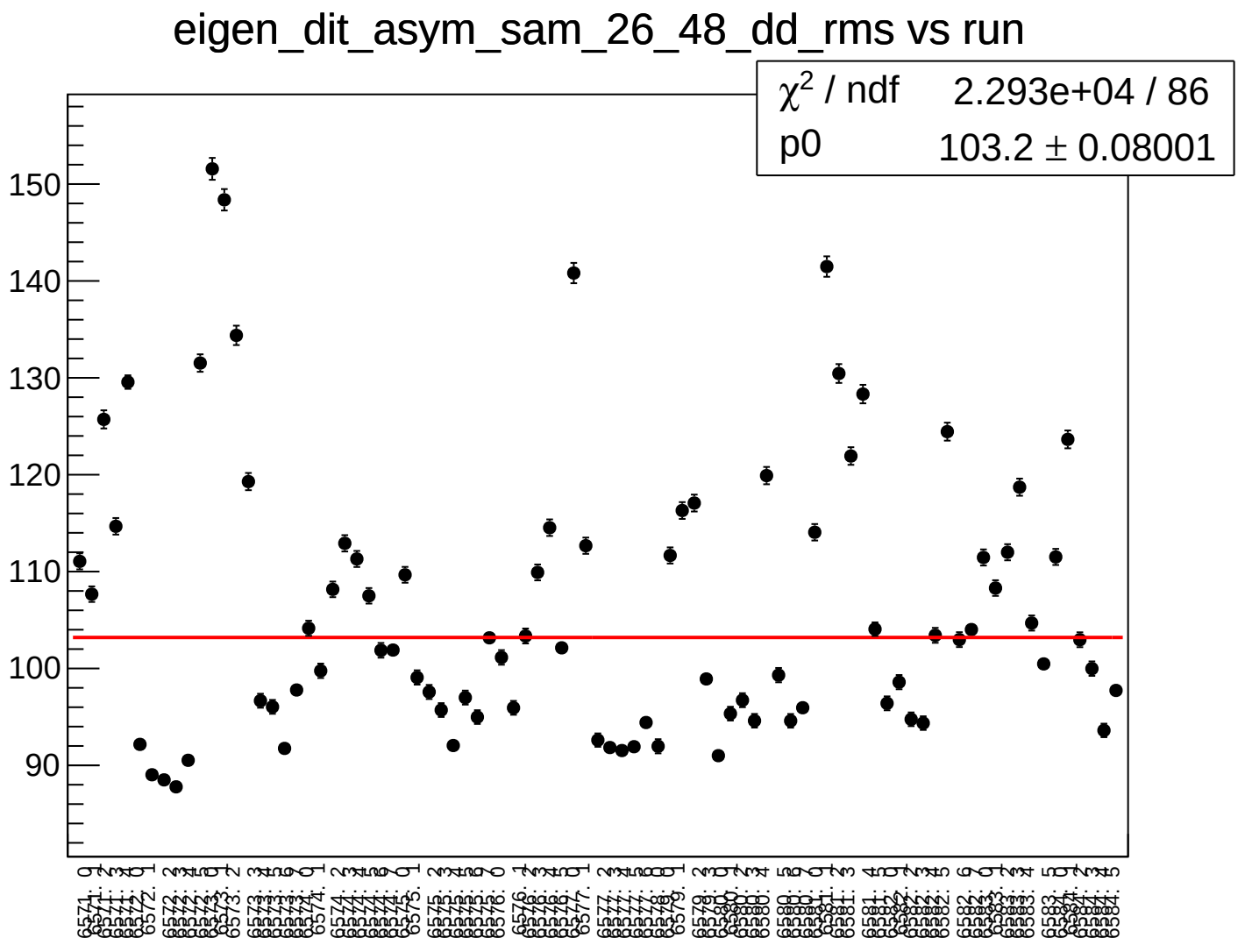

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 113.4 / 86
p0 −12.31 ± 486.1
pull
Entries 87
Mean 477.5
Std Dev 0

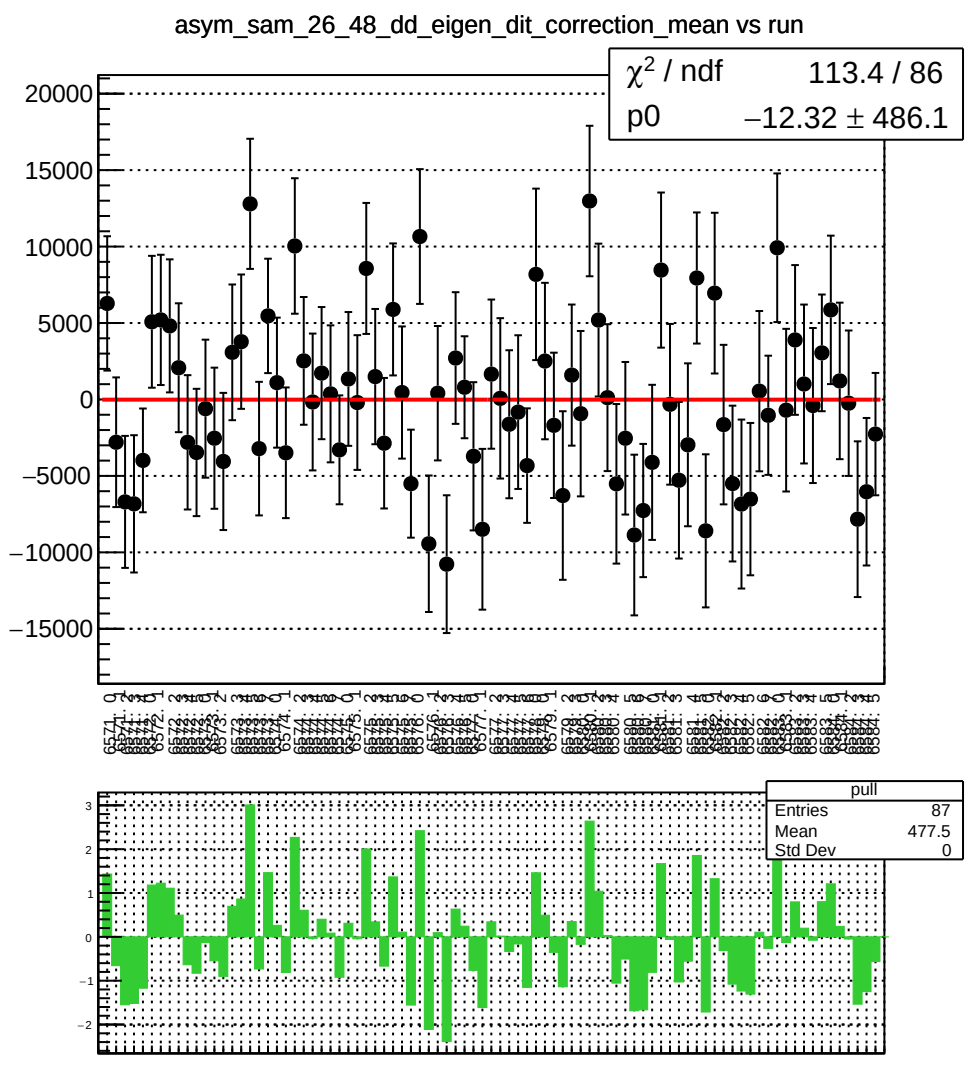

pull1D
Entries 87
Mean −0.006042
Std Dev 1.142

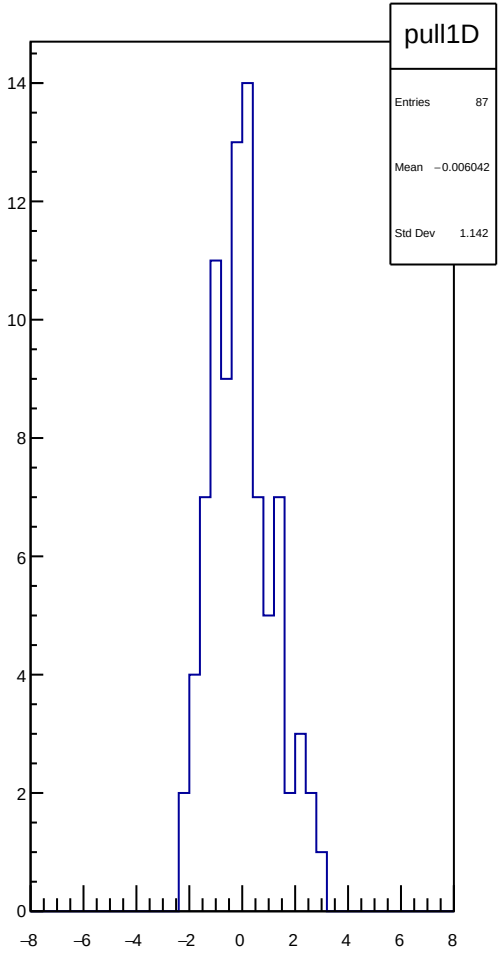

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.079e+04 / 86
p0 445 ± 0.3438
540
520
500
480
460
440
420
400
380

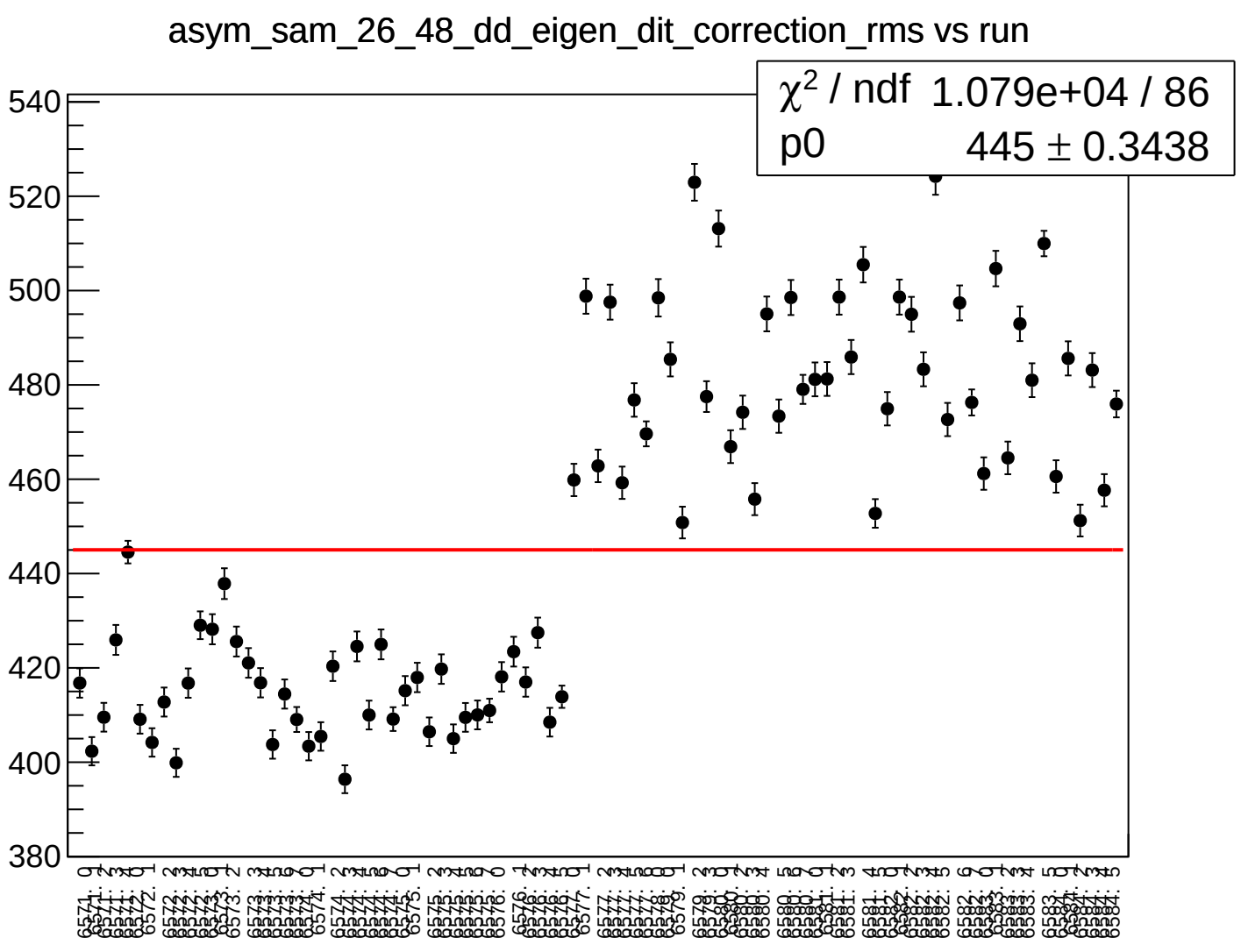

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 92.65 / 86
p0 −46.78 ± 113.1
pull
Entries 87
Mean 395.3
Std Dev 0

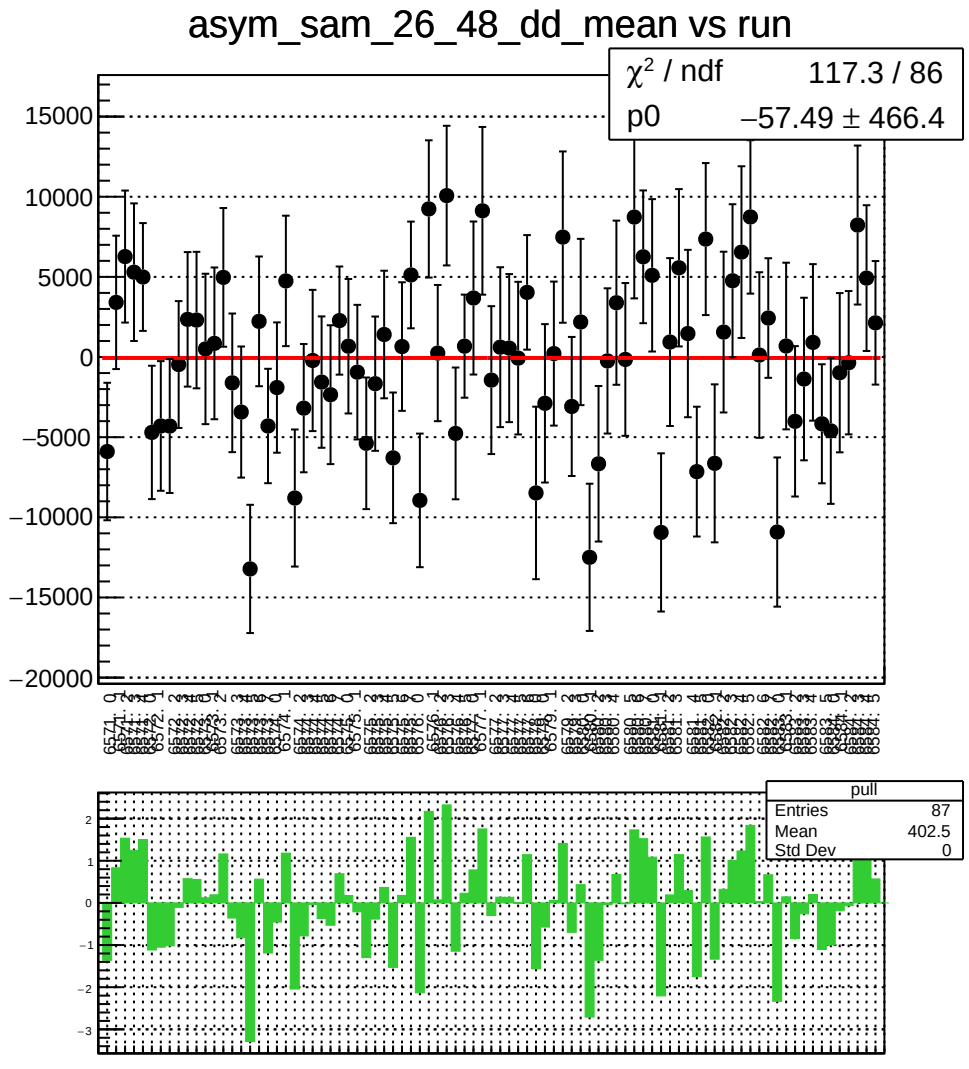

pull1D
Entries 87
Mean −0.008986
Std Dev 1.032

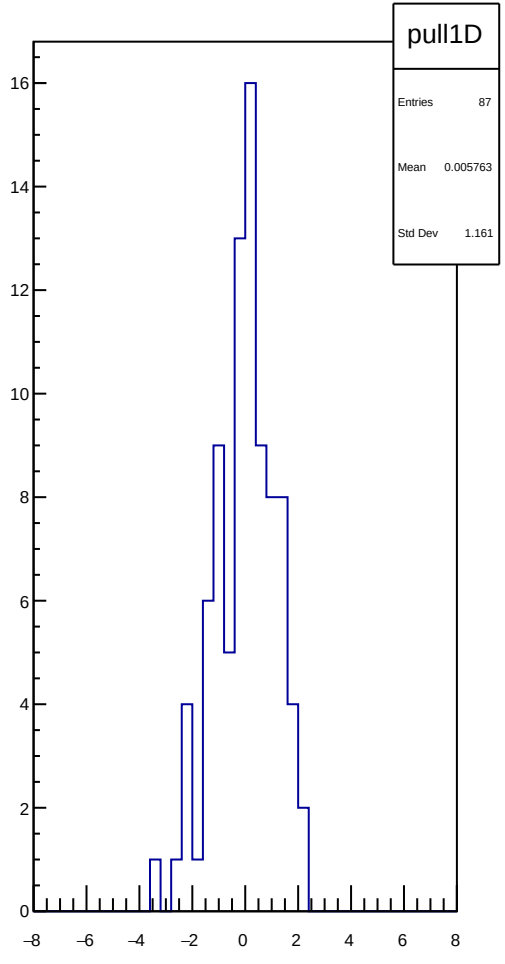

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2.293e+04 / 86
p0 103.2 ± 0.08001
150
140
130
120
110
100
90

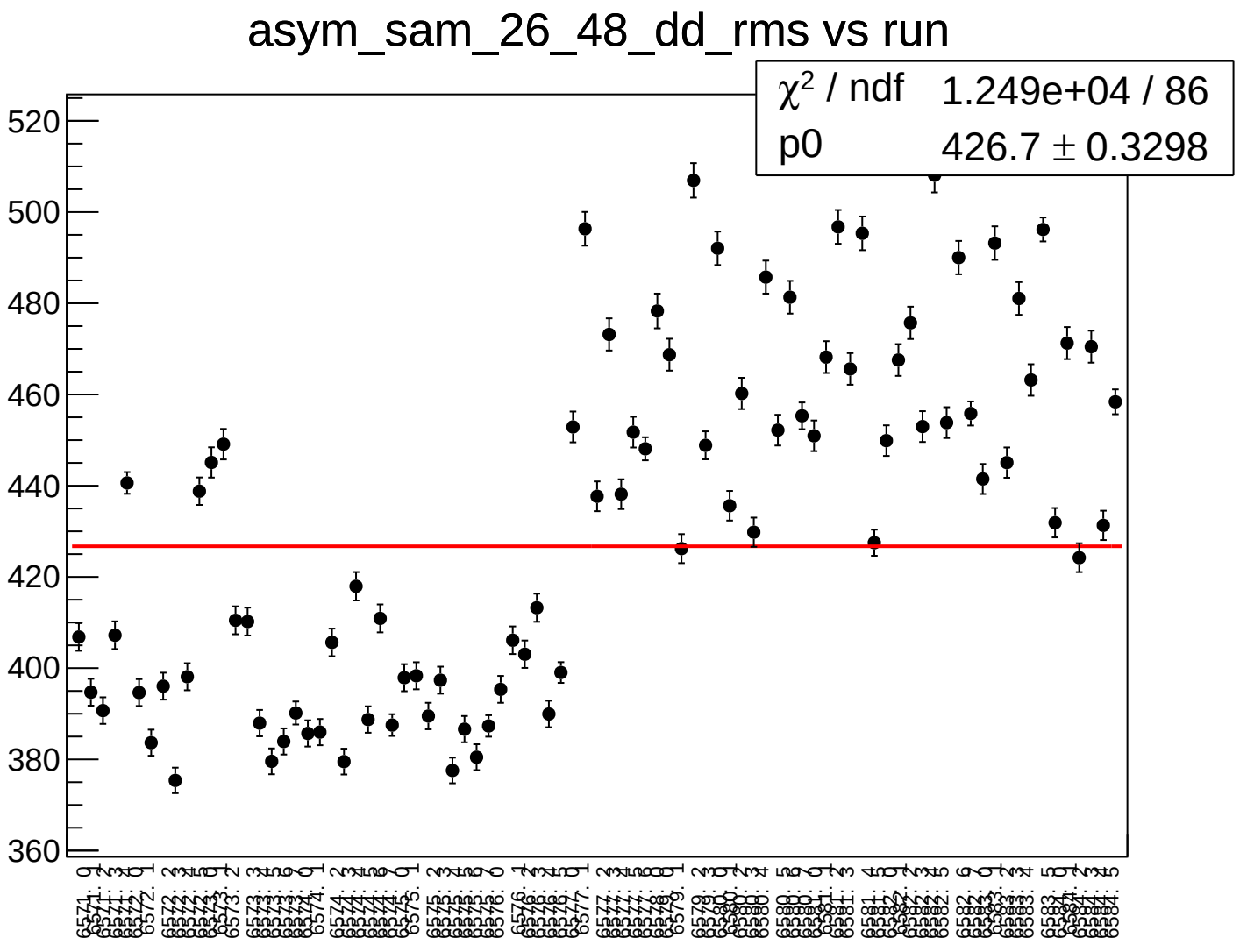

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.4 / 86
p0 −12.32 ± 486.1
pull
Entries 87
Mean 477.5
Std Dev 0

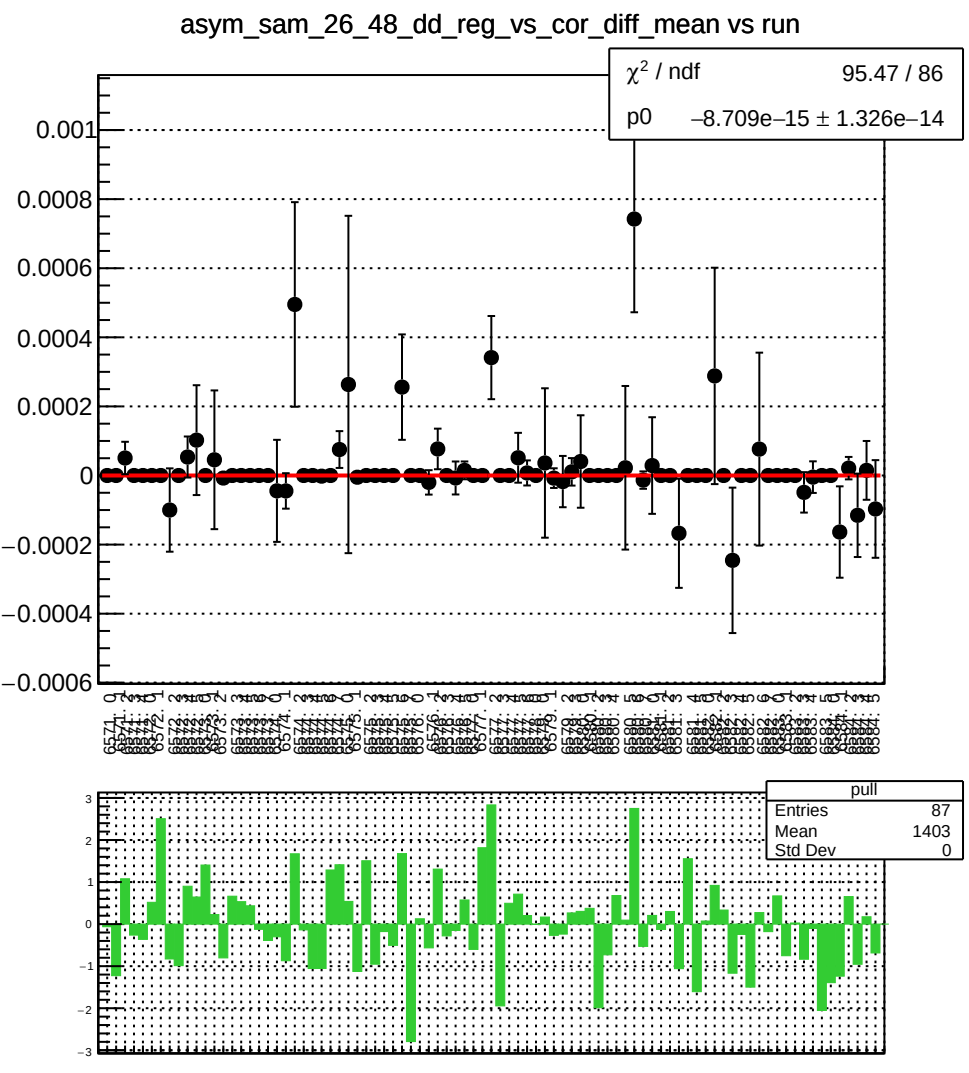

pull1D
Entries 87
Mean −0.006042
Std Dev 1.142

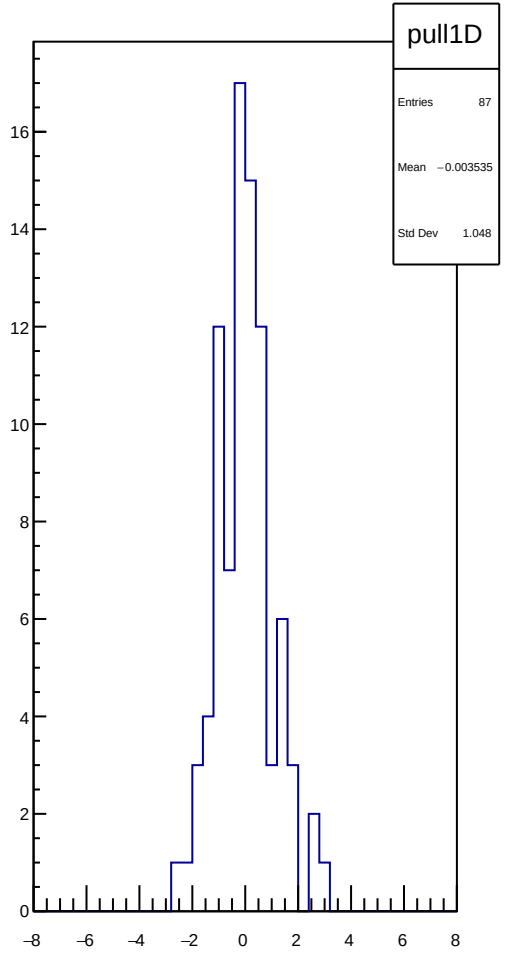

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.079e+04 / 86
p0 445 ± 0.3438
540
520
500
480
460
440
420
400
380

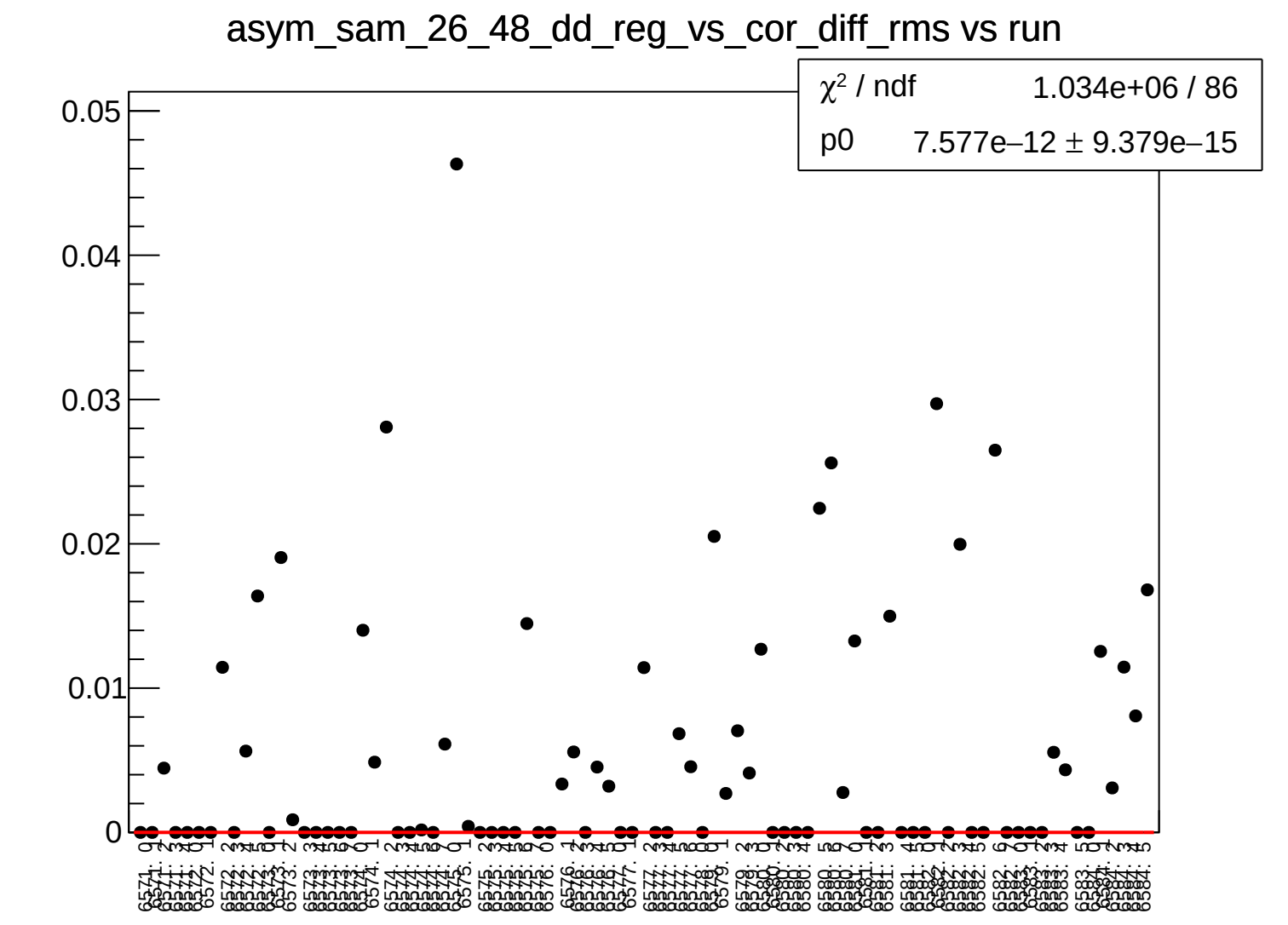

asym_sam_26_48_dd_mean vs run
χ² / ndf 117.3 / 86
p0 −57.49 ± 466.4
pull
Entries 87
Mean 402.5
Std Dev 0

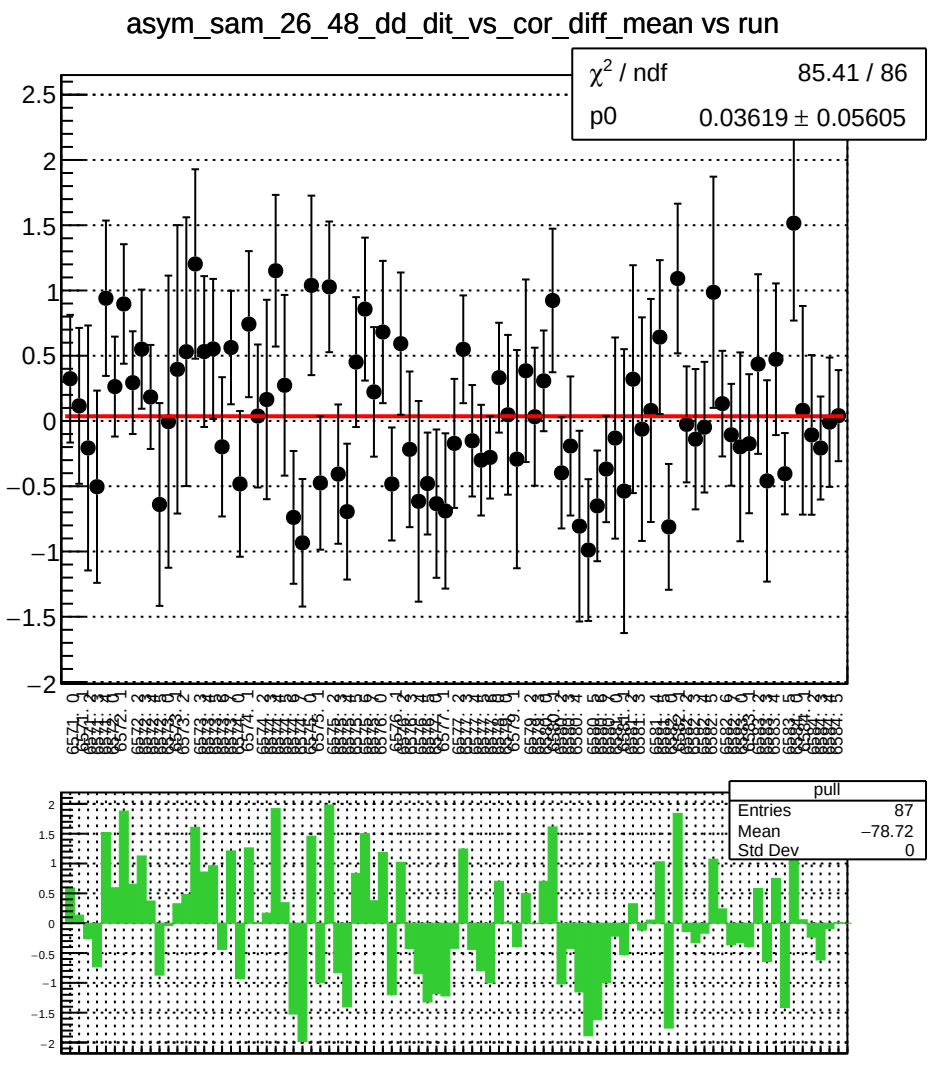

pull1D
Entries 87
Mean 0.005763
Std Dev 1.161

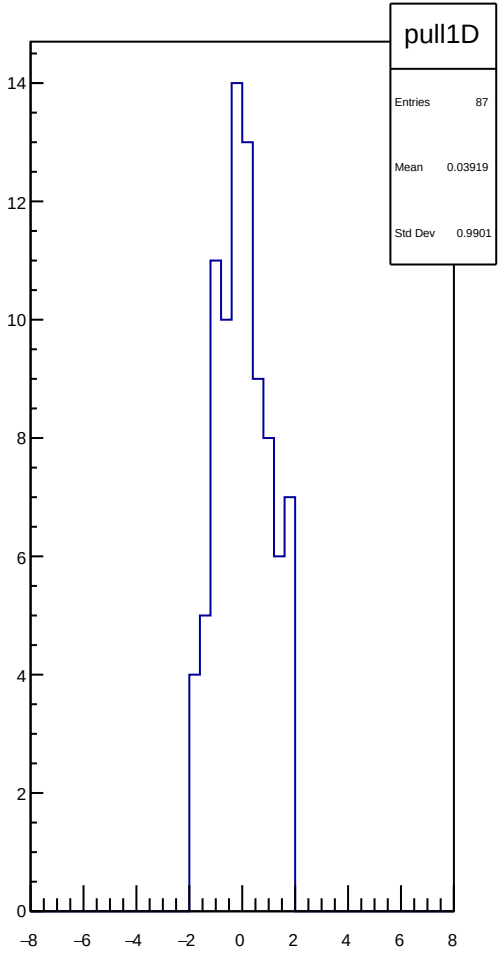

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.249e+04 / 86
p0 426.7 ± 0.3298
520
500
480
460
440
420
400
380
360

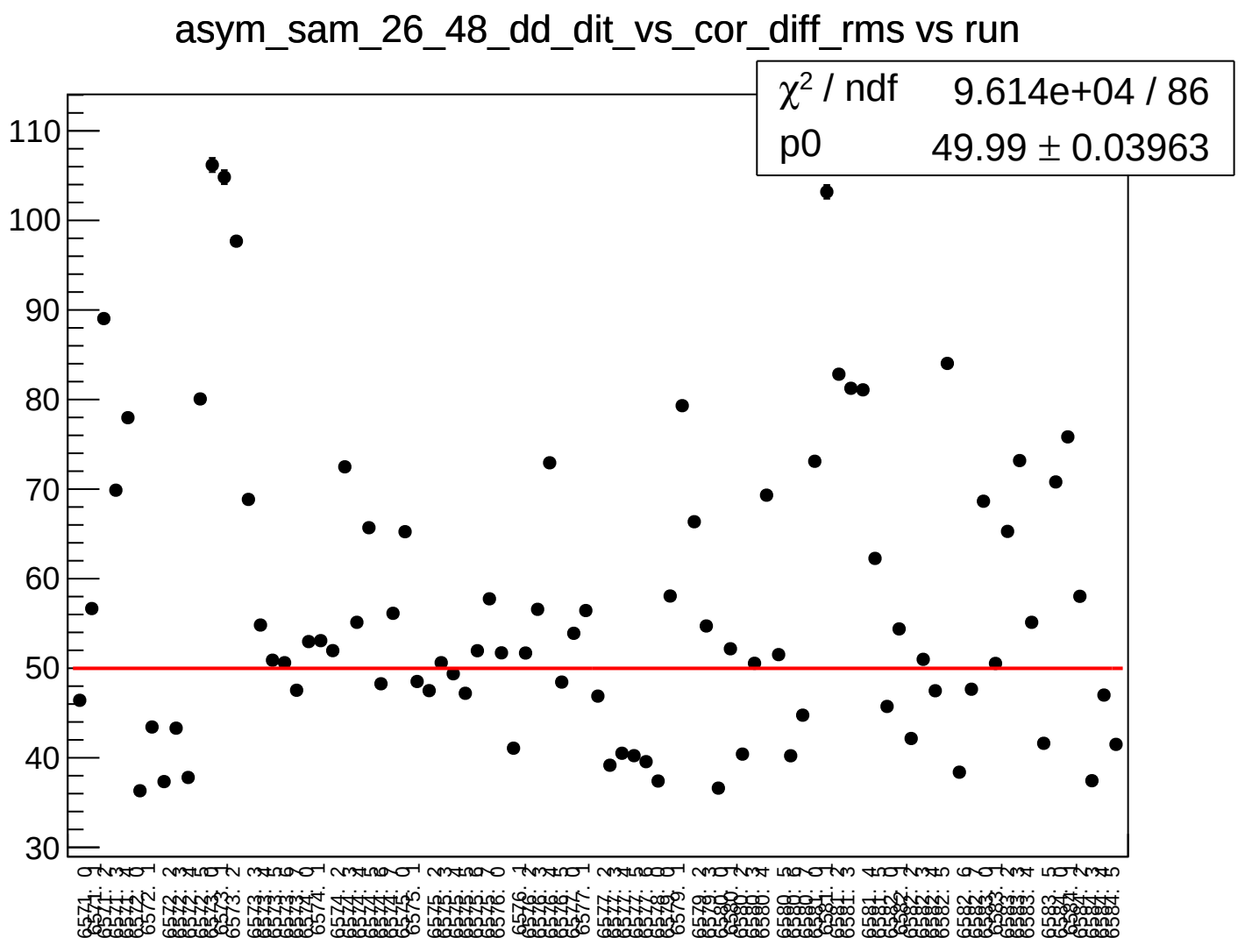

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.47 / 86
p0 −8.709e−15 ± 1.326e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 87
Mean 1403
Std Dev 0
3
2
1
0
−1
−2
−3

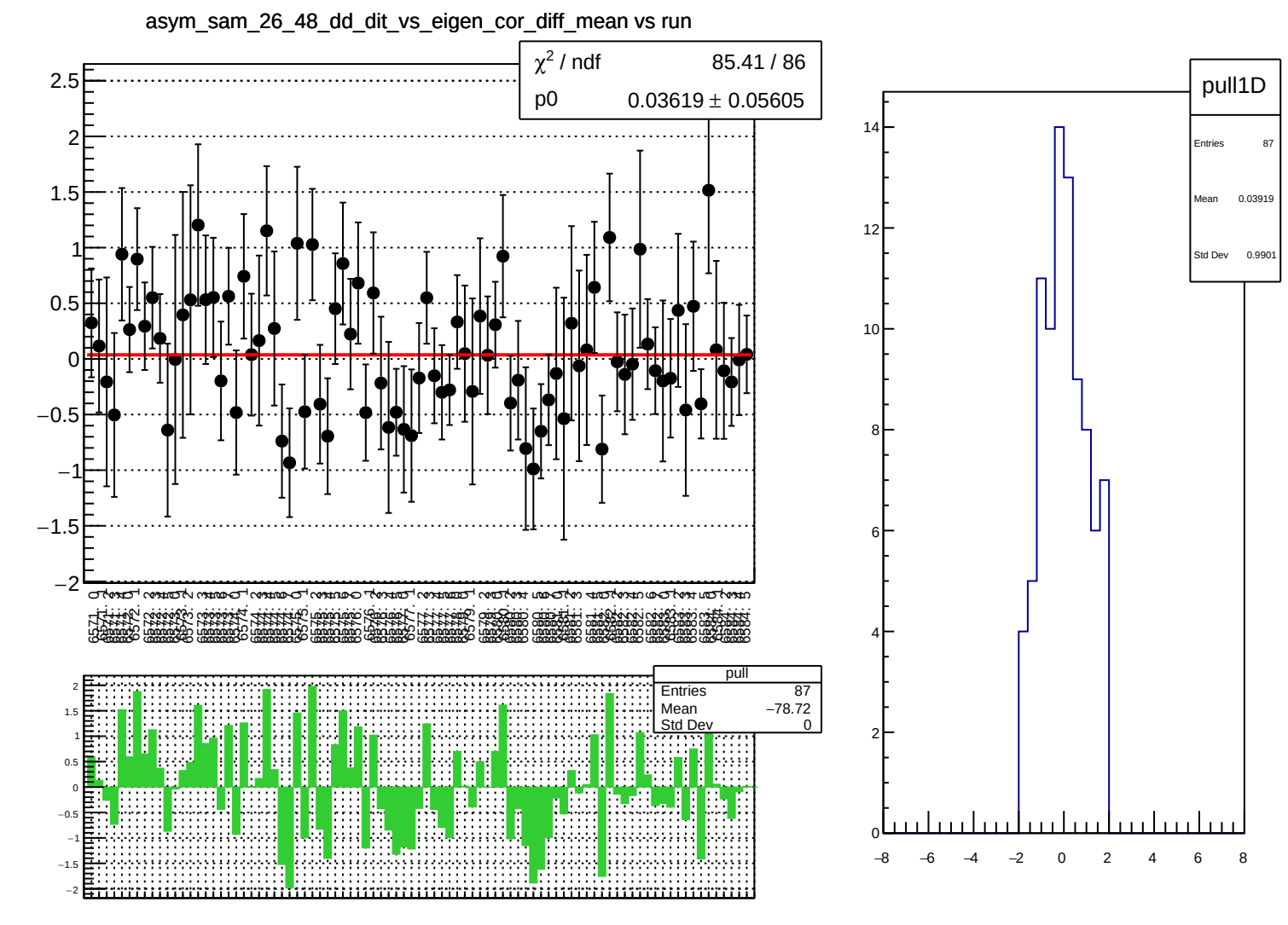

pull1D
Entries 87
Mean −0.003535
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

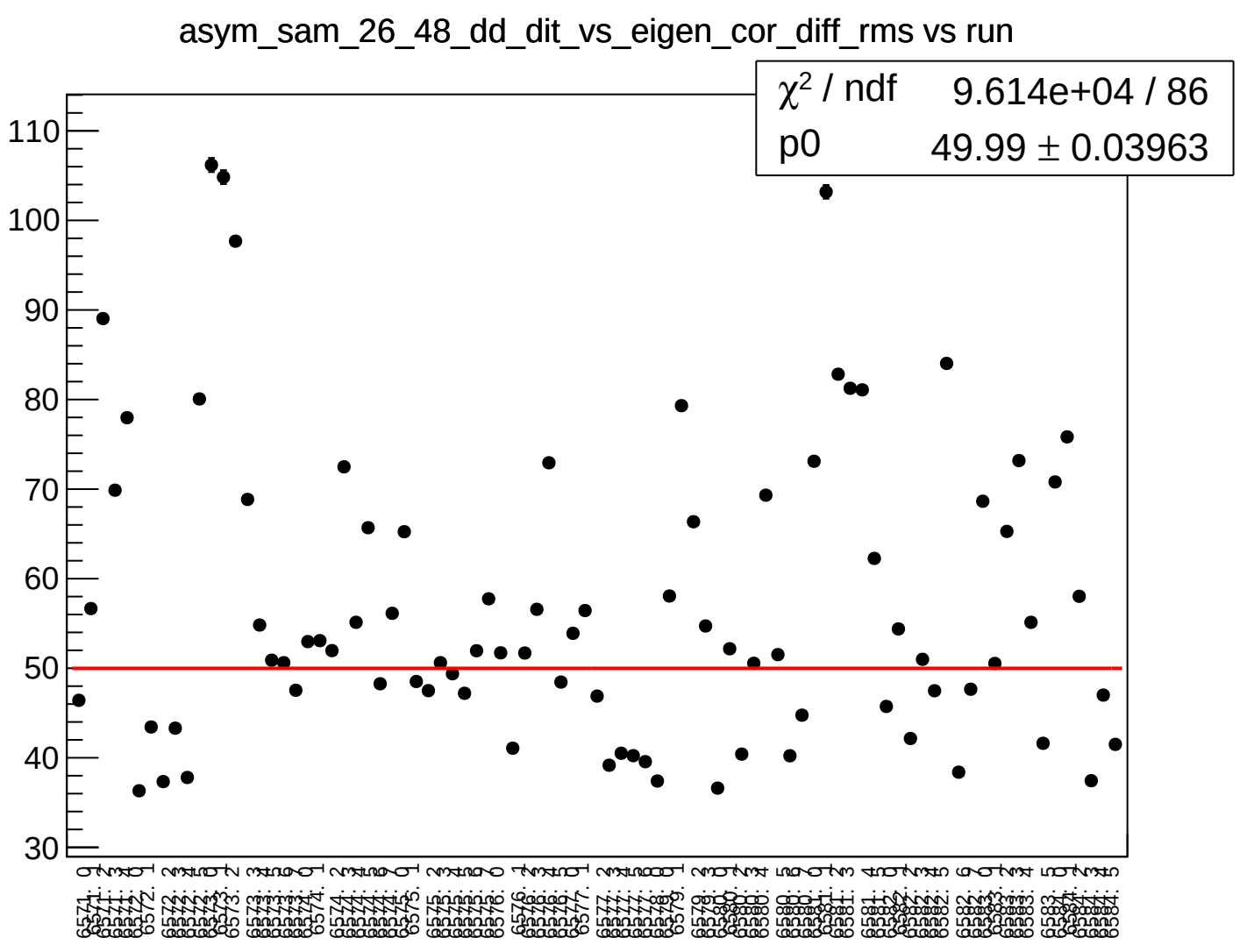

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 86
p0 7.577e−12 ± 9.379e−15
0.05
0.04
0.03
0.02
0.01
0

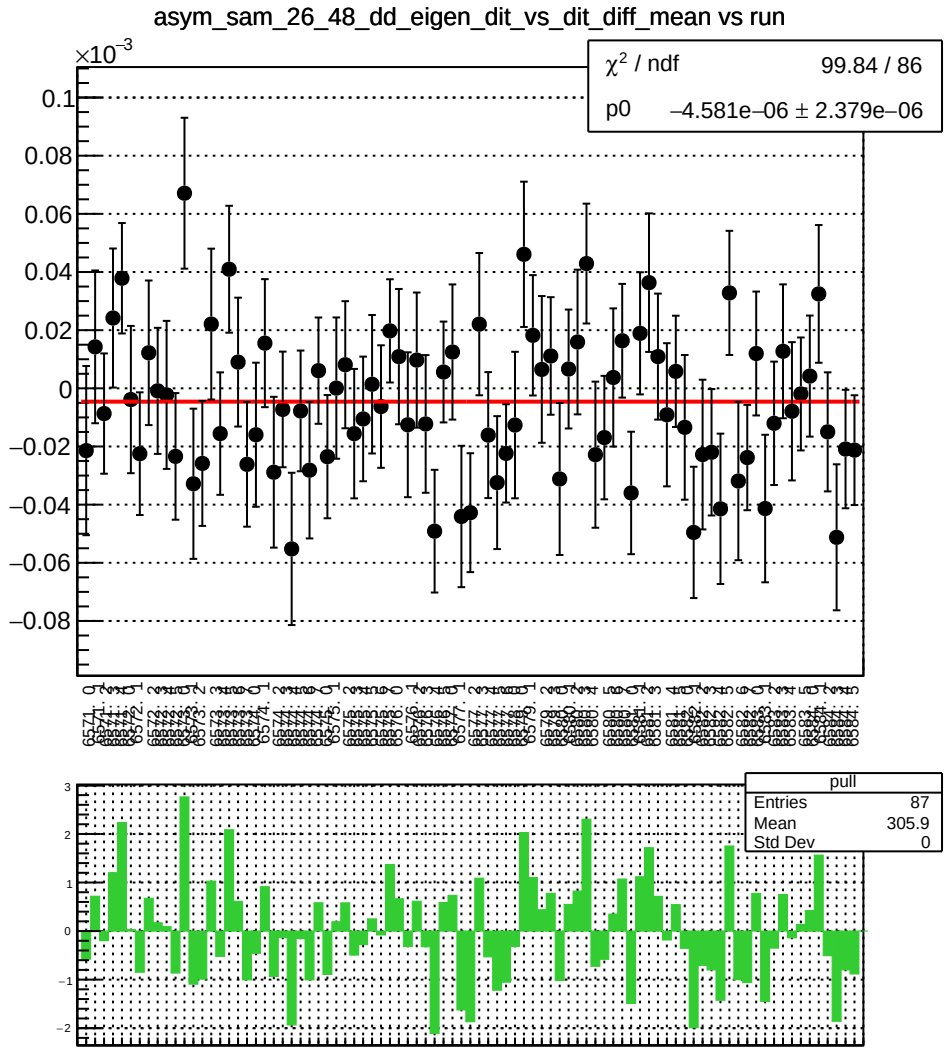

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.41 / 86
p0 0.03619 ± 0.05605
pull
Entries 87
Mean −78.72
Std Dev 0

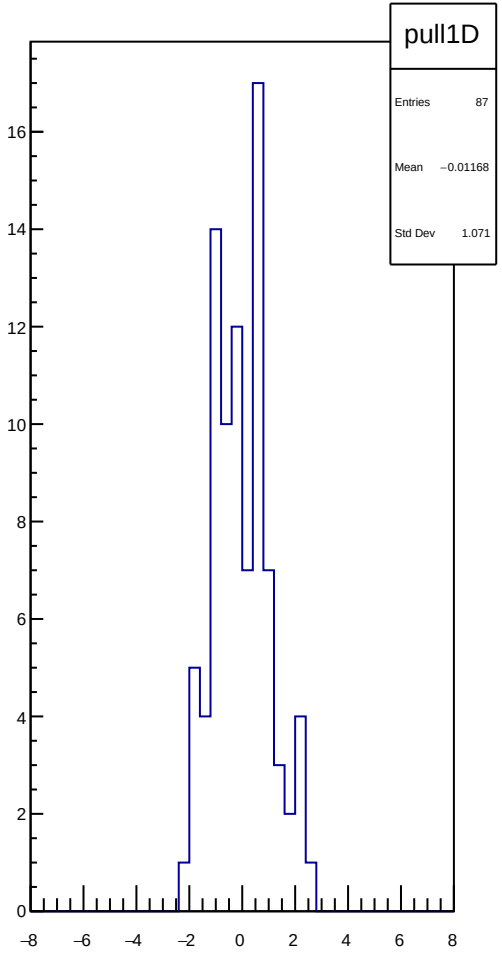

pull1D
Entries 87
Mean 0.03919
Std Dev 0.9901

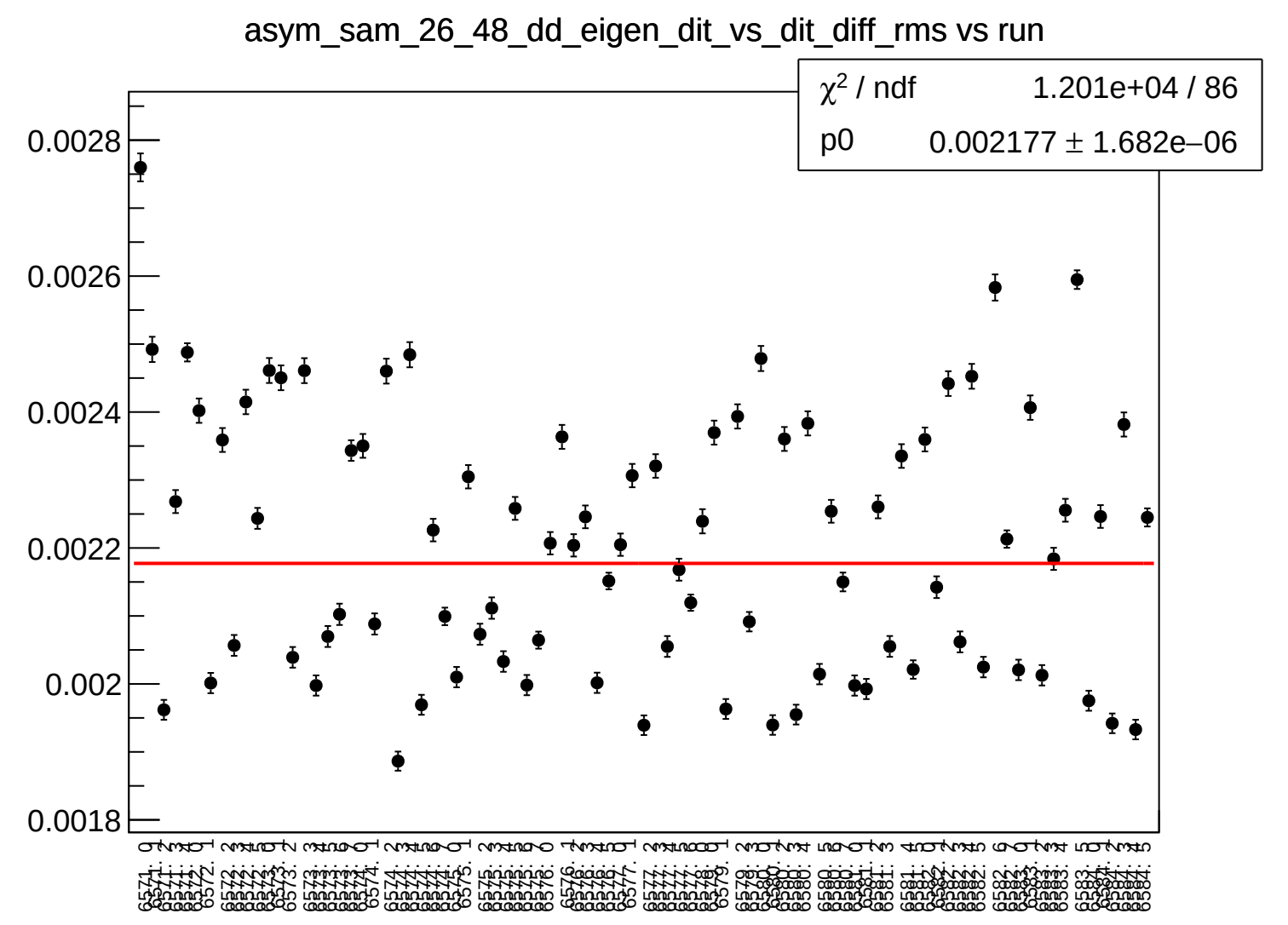

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.614e+04 / 86
p0 49.99 ± 0.03963
110
100
90
80
70
60
50
40
30

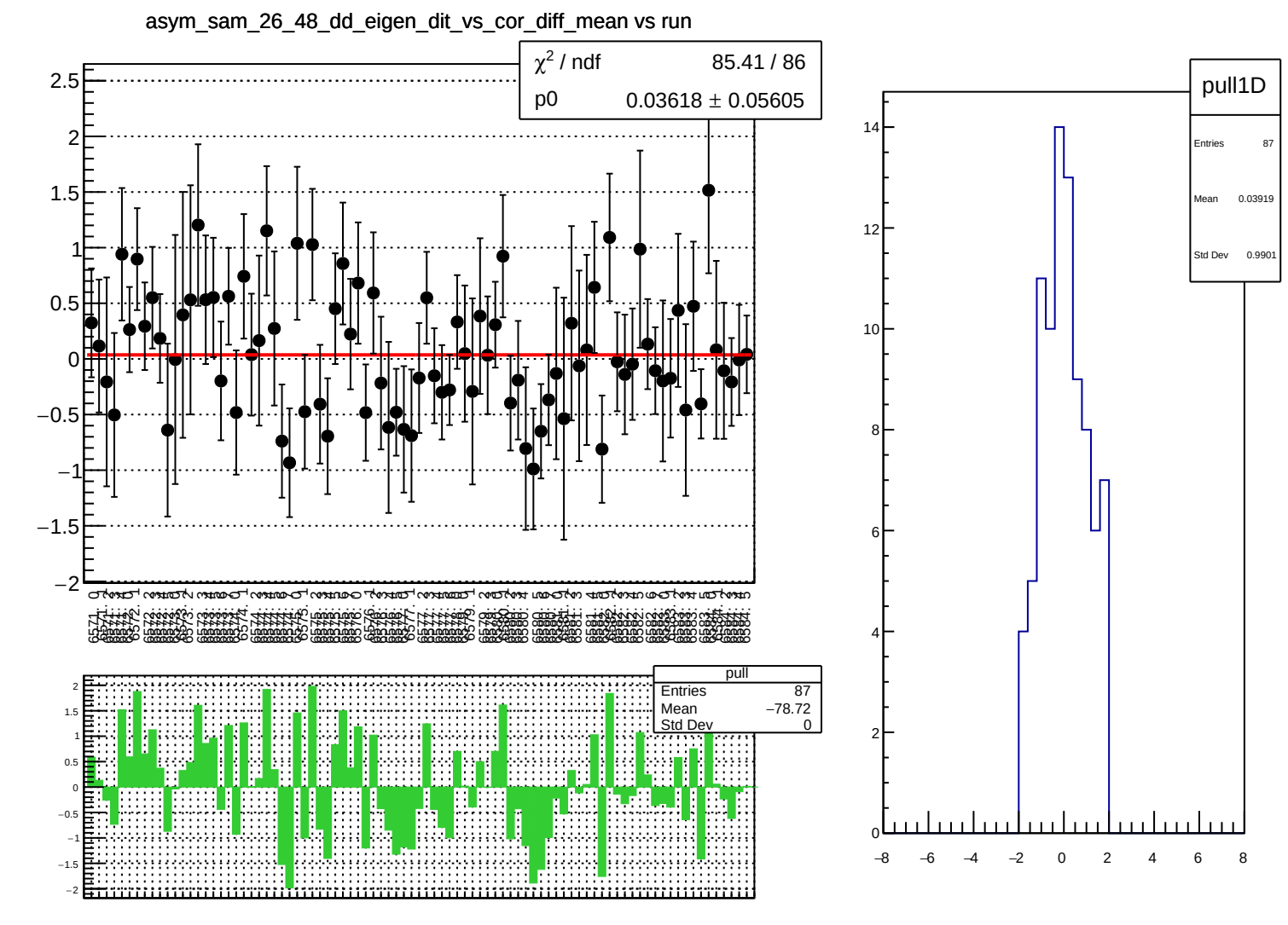

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.41 / 86
p0 0.03619 ± 0.05605
pull
Entries 87
Mean −78.72
Std Dev 0
pull1D
Entries 87
Mean 0.03919
Std Dev 0.9901

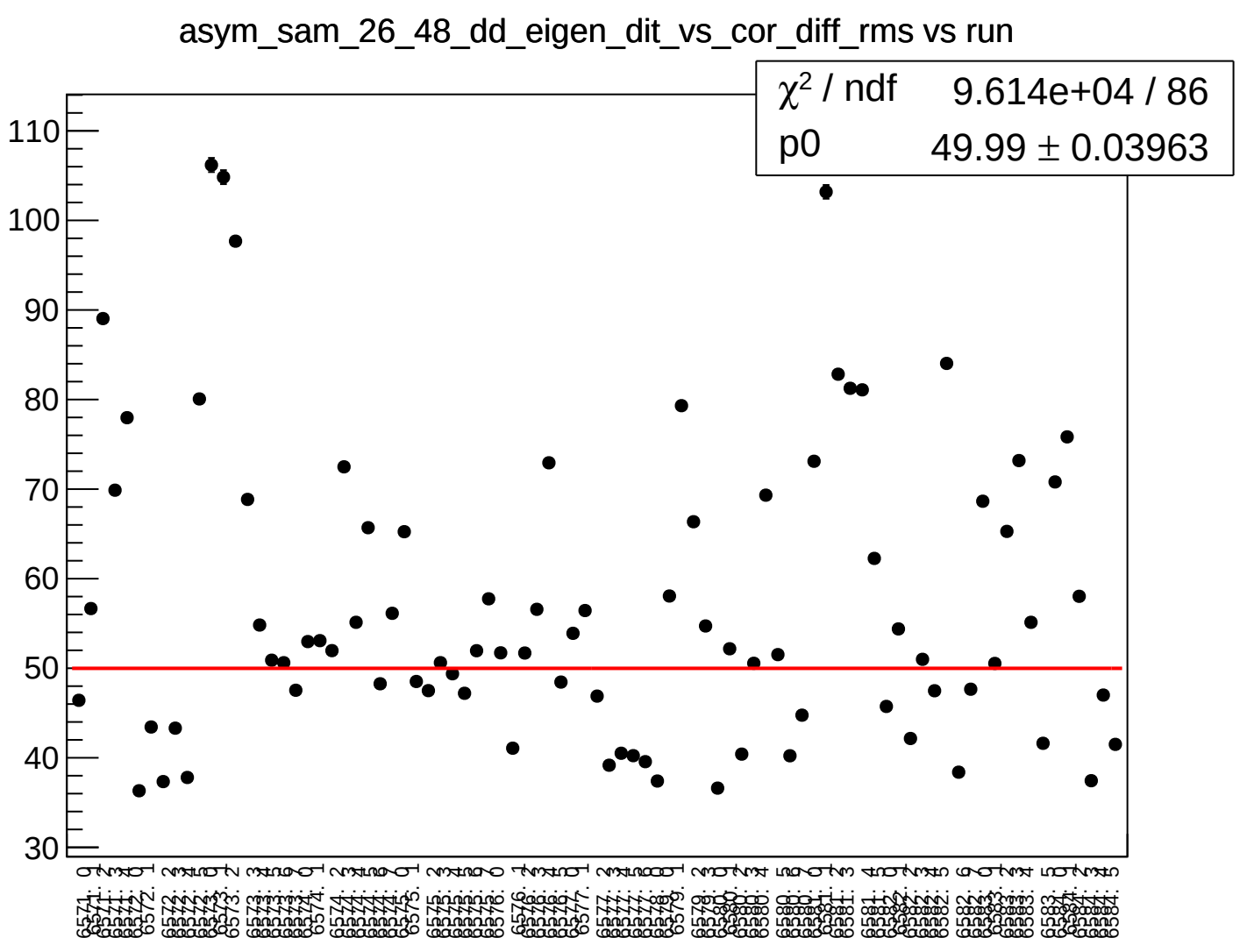

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.614e+04 / 86
p0 49.99 ± 0.03963
110
100
90
80
70
60
50
40
30

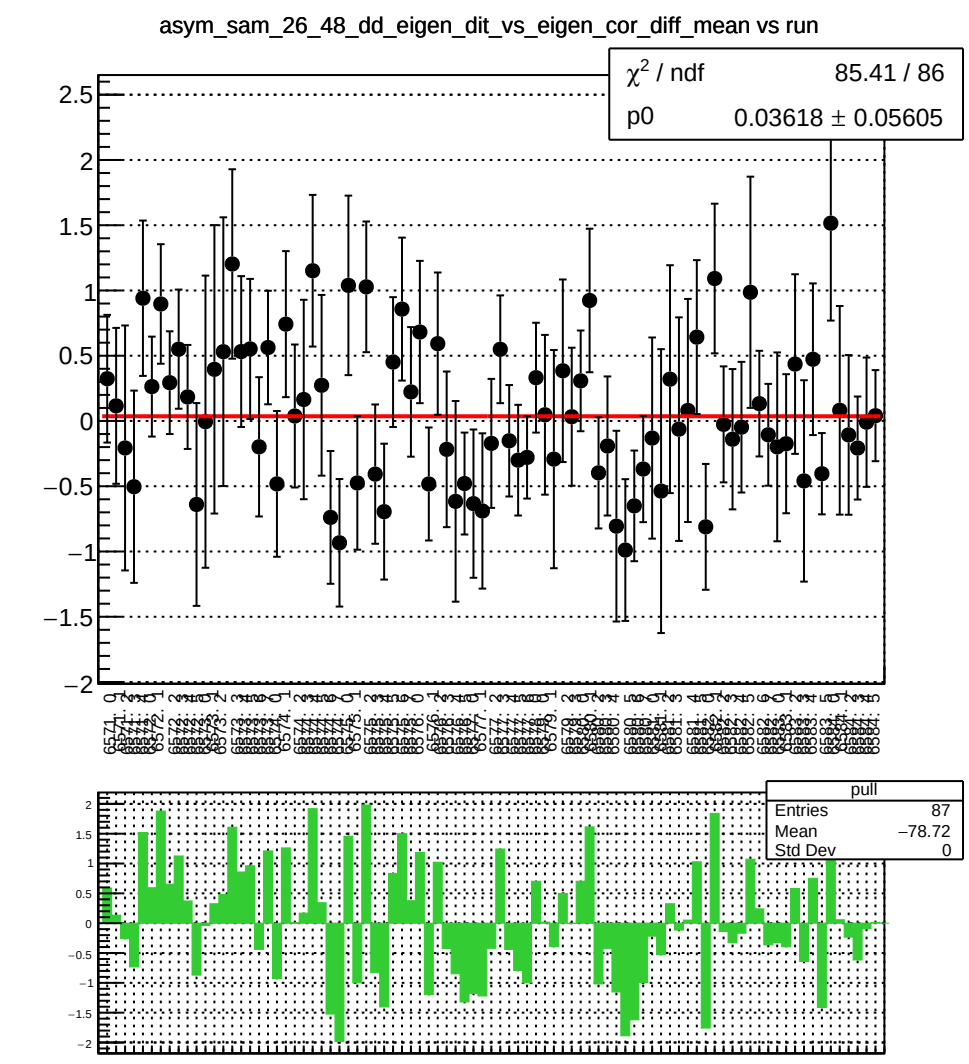

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.84 / 86
p0 −4.581e−06 ± 2.379e−06
pull
Entries 87
Mean 305.9
Std Dev 0

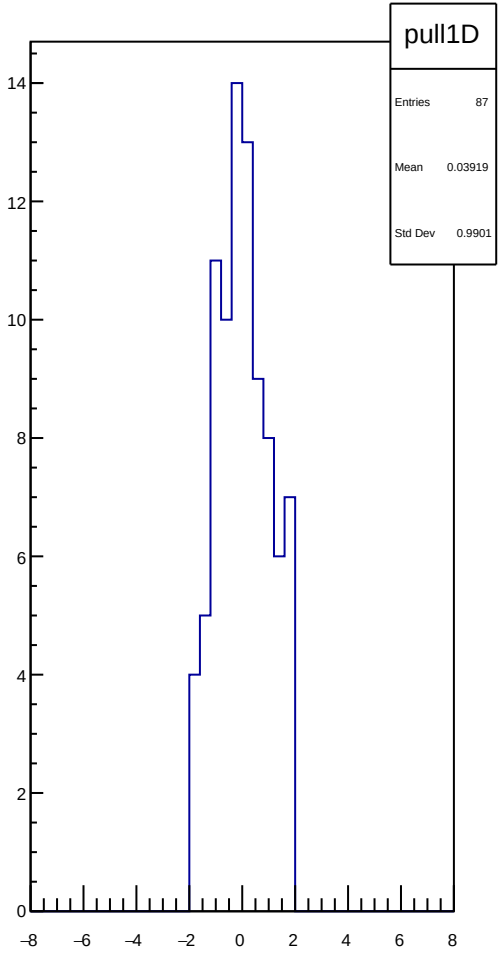

pull1D
Entries 87
Mean −0.01168
Std Dev 1.071

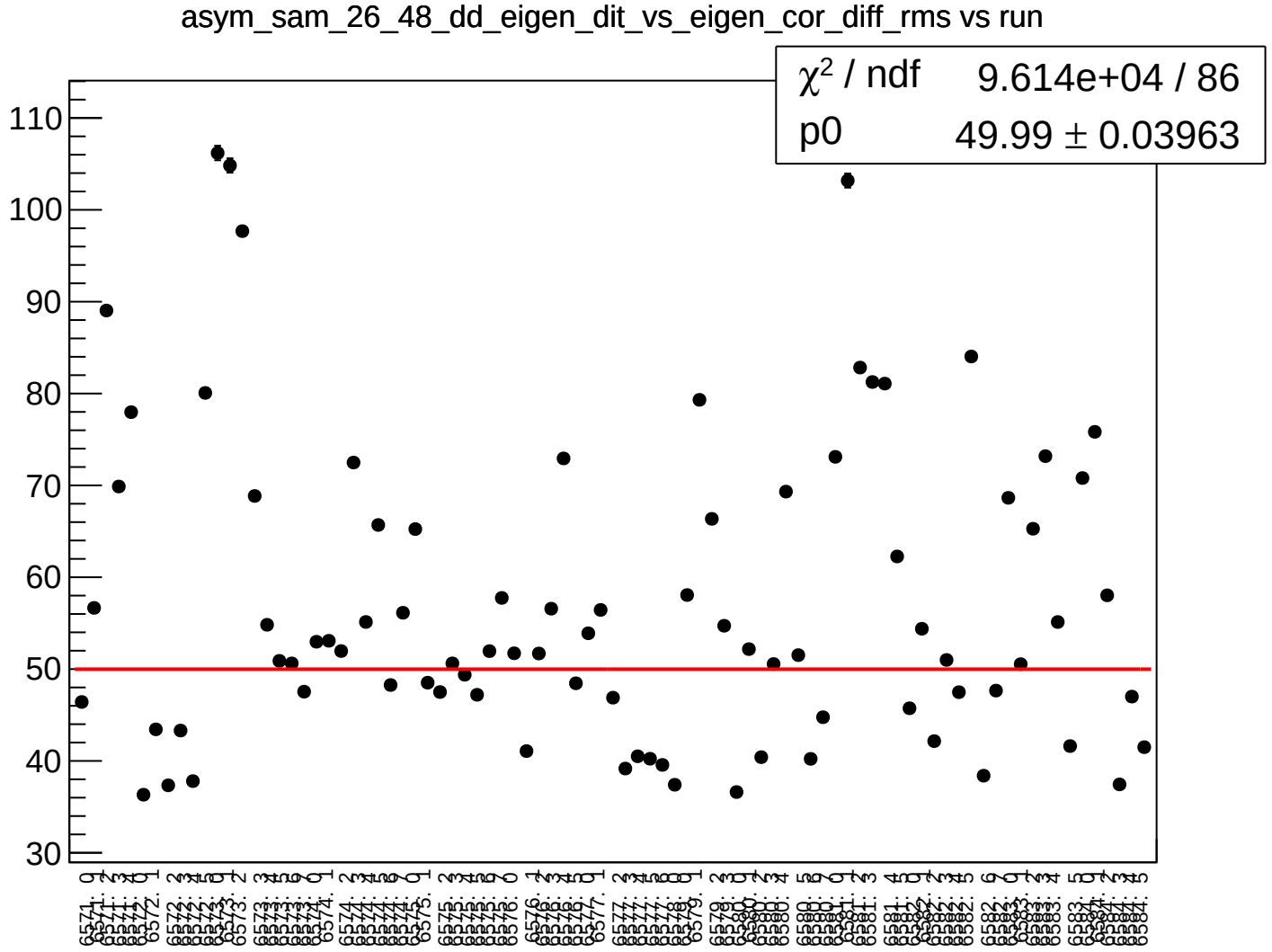

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.201e+04 / 86
p0 0.002177 ± 1.682e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

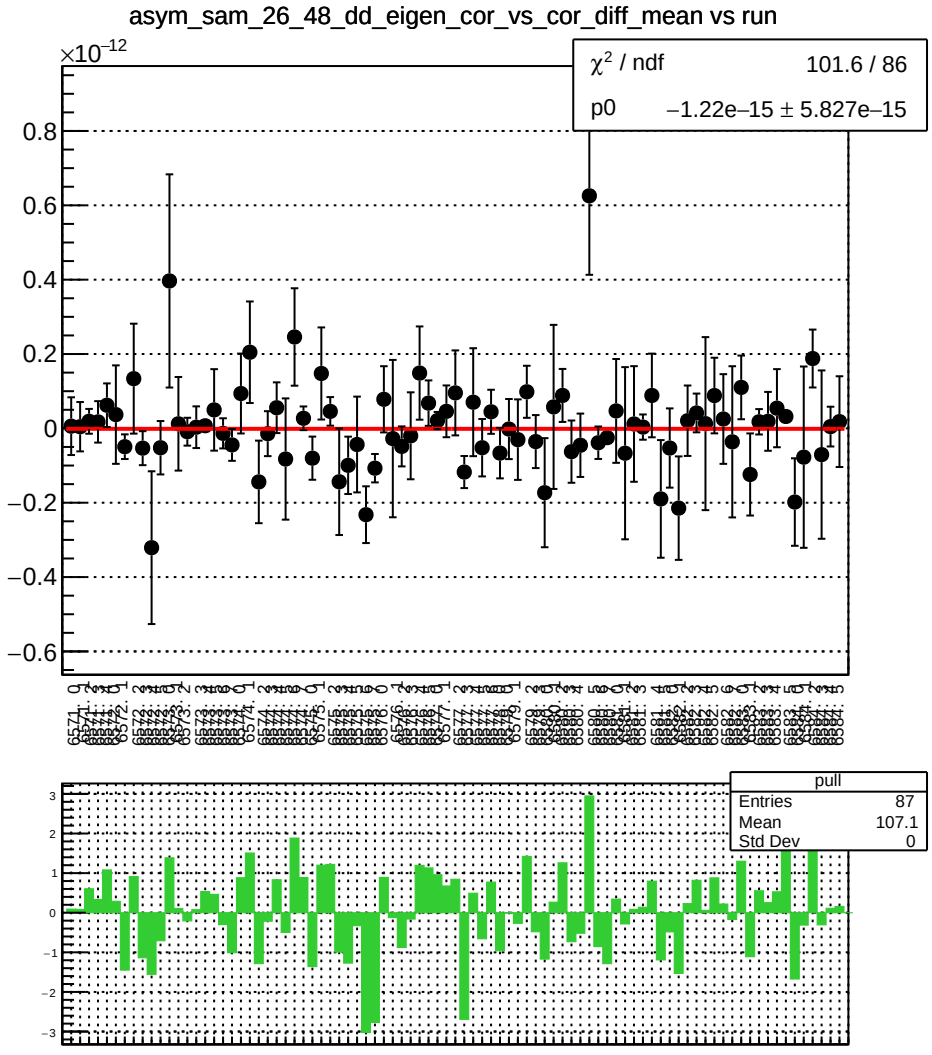

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.41 / 86
p0 0.03618 ± 0.05605
pull
Entries 87
Mean −78.72
Std Dev 0
pull1D
Entries 87
Mean 0.03919
Std Dev 0.9901

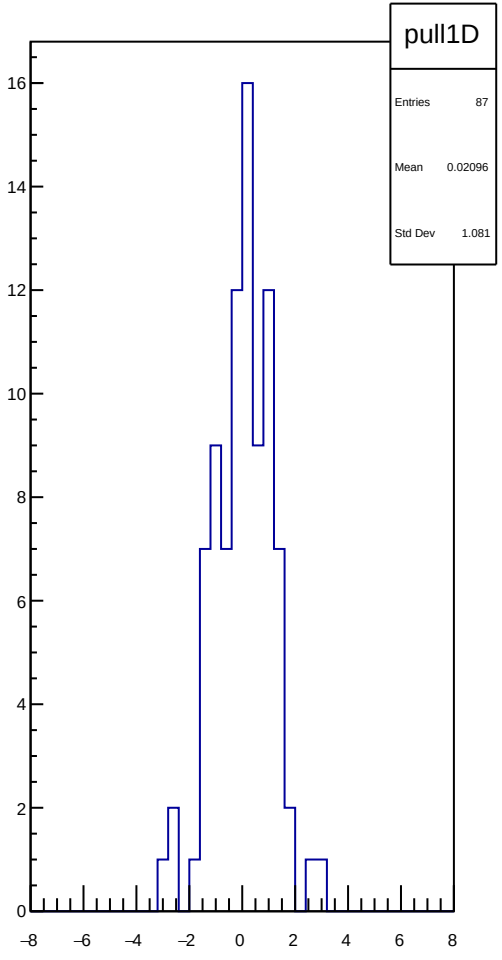

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.614e+04 / 86
p0 49.99 ± 0.03963
110
100
90
80
70
60
50
40
30

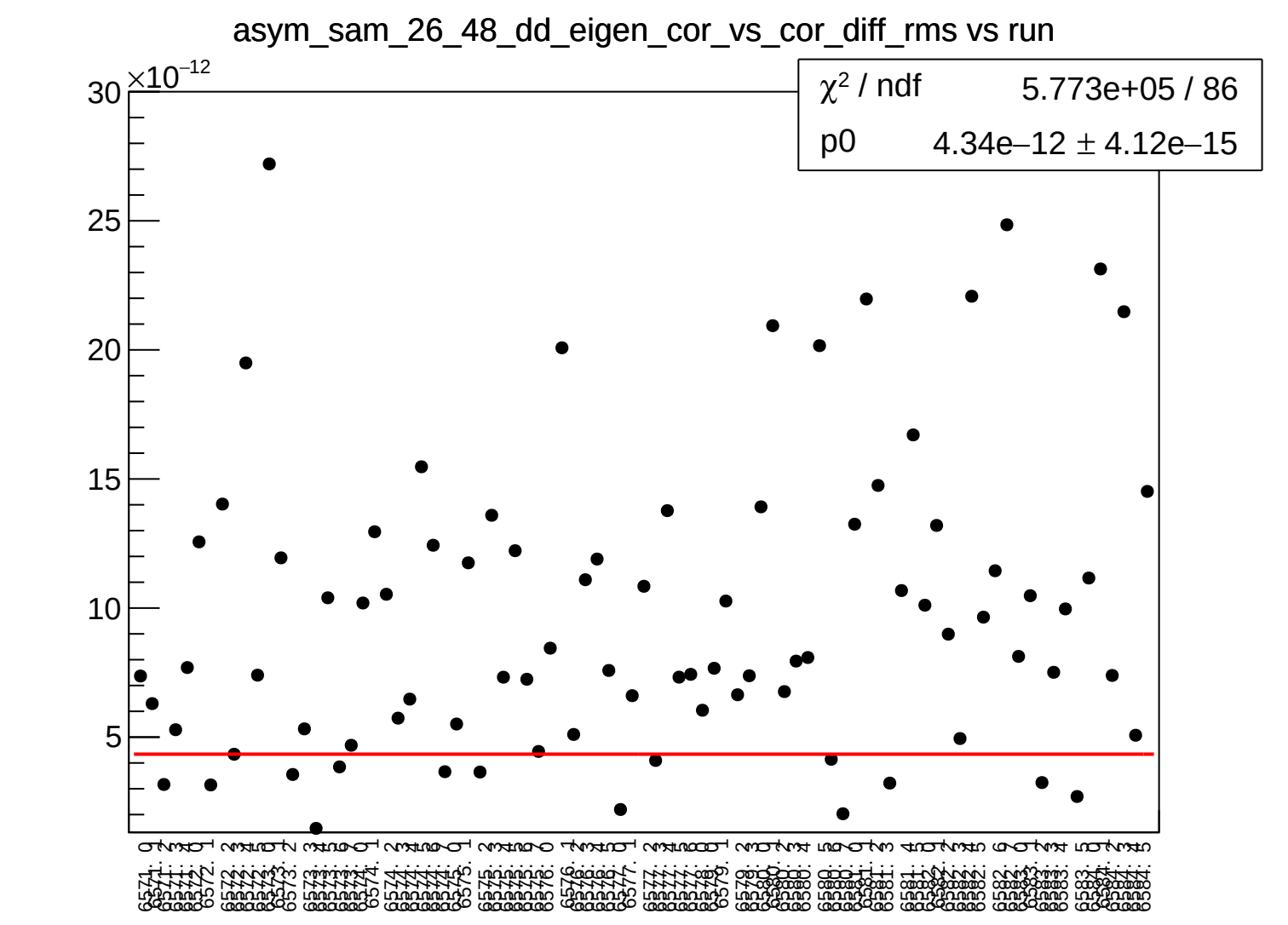

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.41 / 86
p0 0.03618 ± 0.05605
pull
Entries 87
Mean −78.72
Std Dev 0

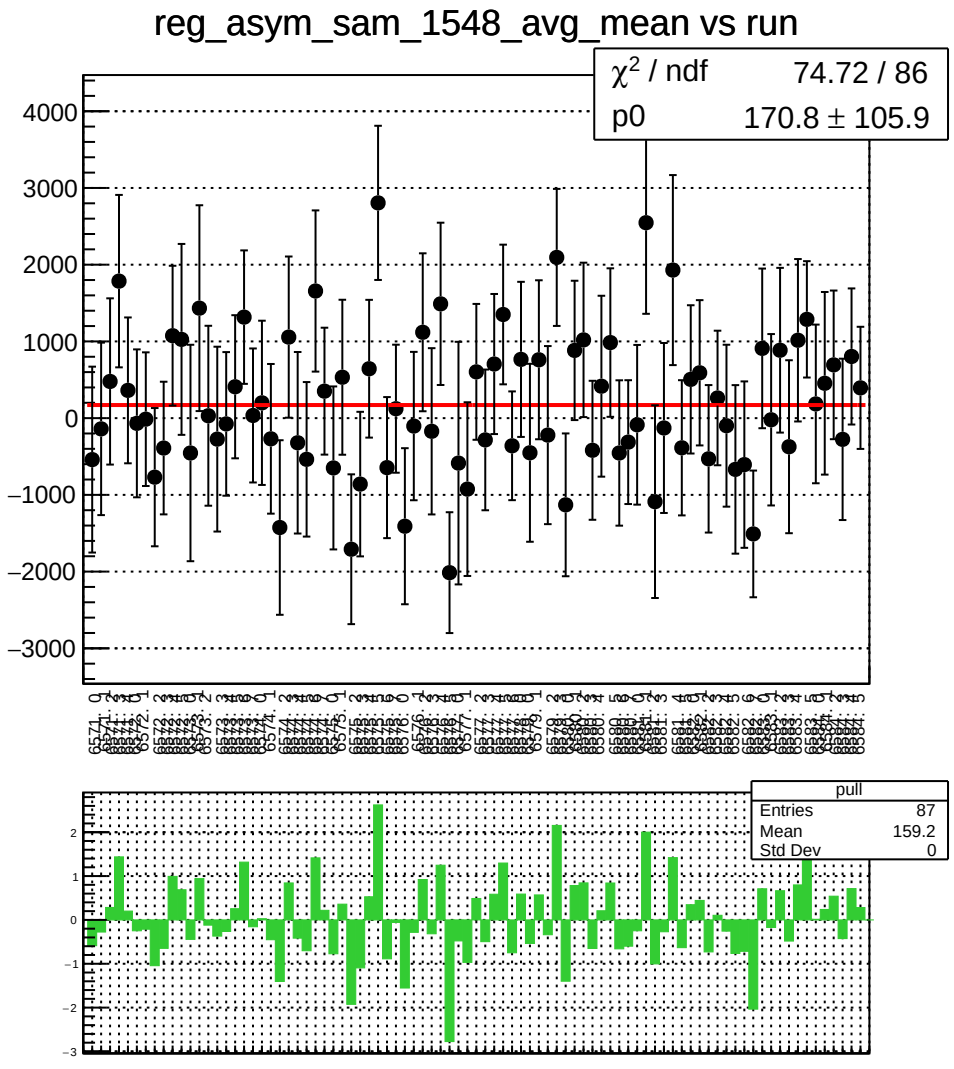

pull1D
Entries 87
Mean 0.03919
Std Dev 0.9901

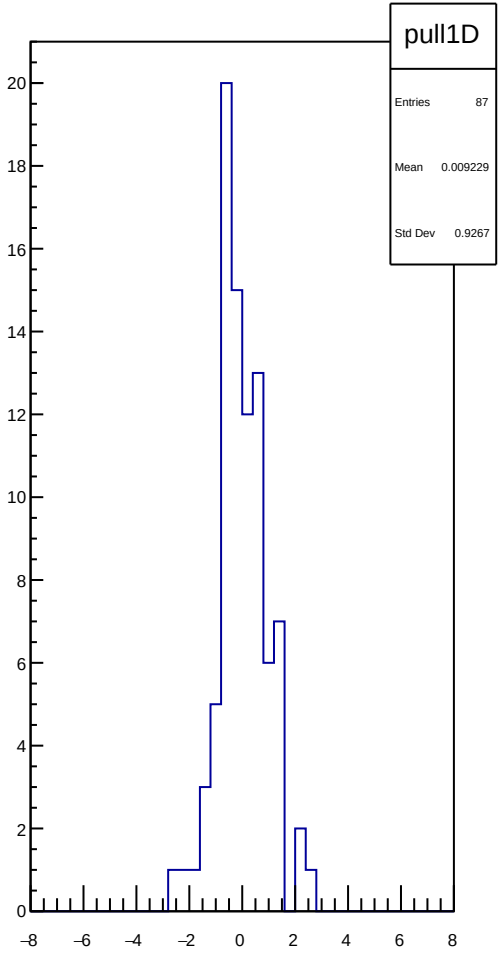

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.614e+04 / 86
p0 49.99 ± 0.03963
110
100
90
80
70
60
50
40
30

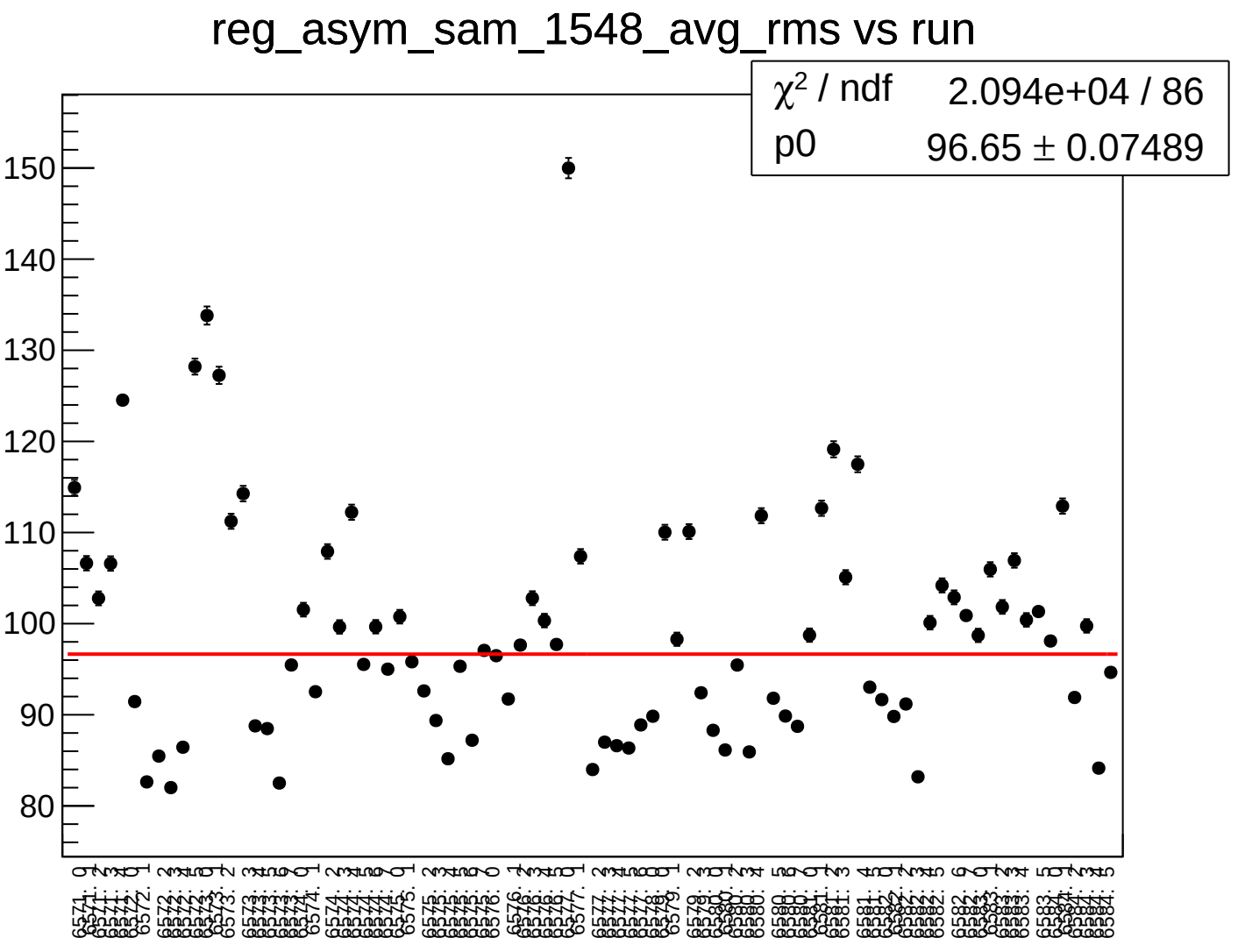

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.6 / 86
p0 −1.22e−15 ± 5.827e−15
pull
Entries 87
Mean 107.1
Std Dev 0

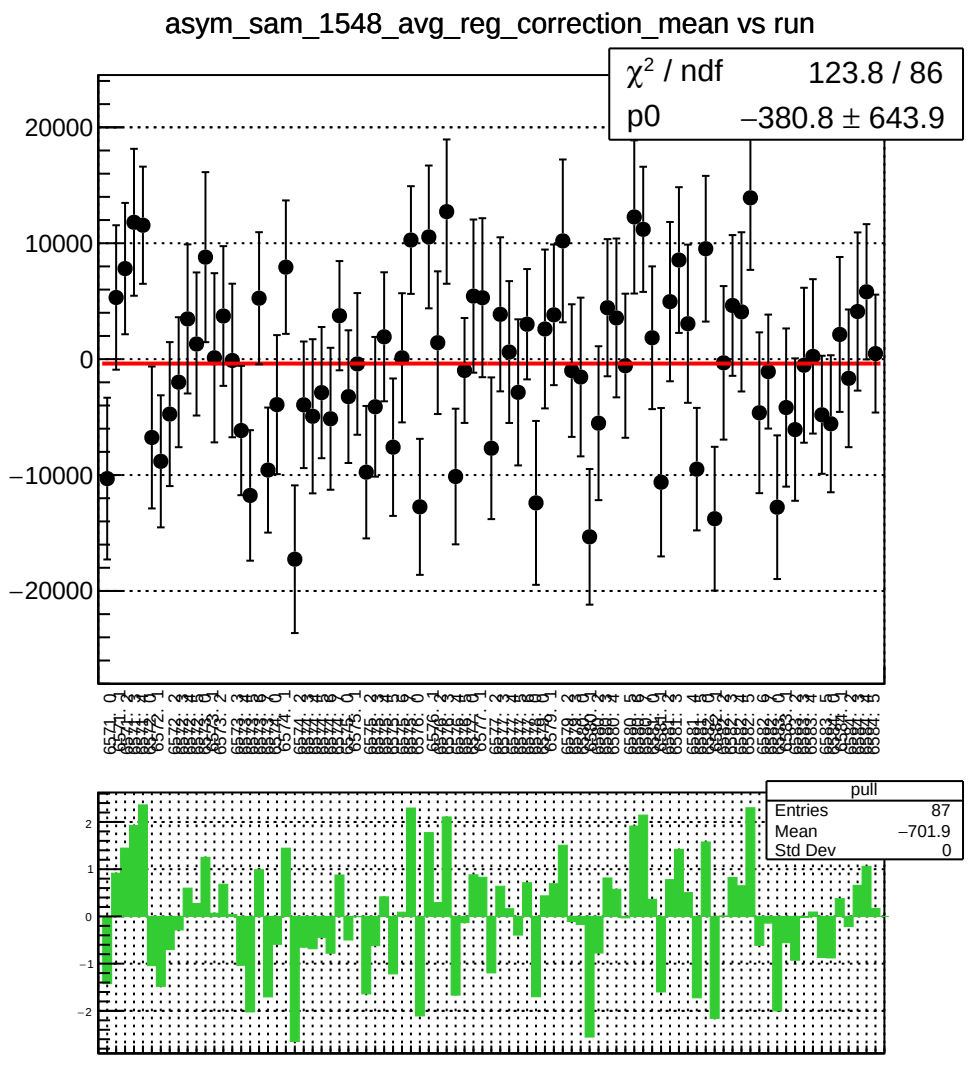

pull1D
Entries 87
Mean 0.02096
Std Dev 1.081

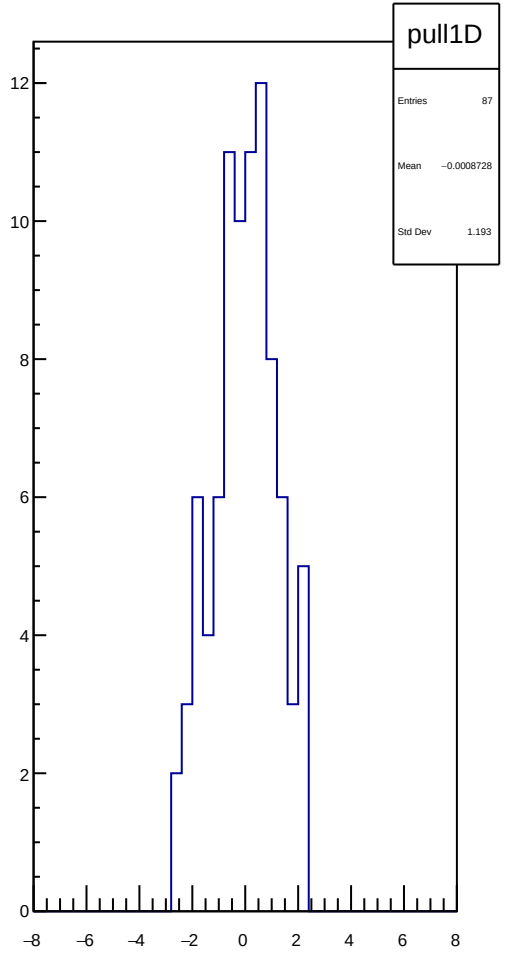

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
30
25
20
15
10
5
χ² / ndf 5.773e+05 / 86
p0 4.34e−12 ± 4.12e−15

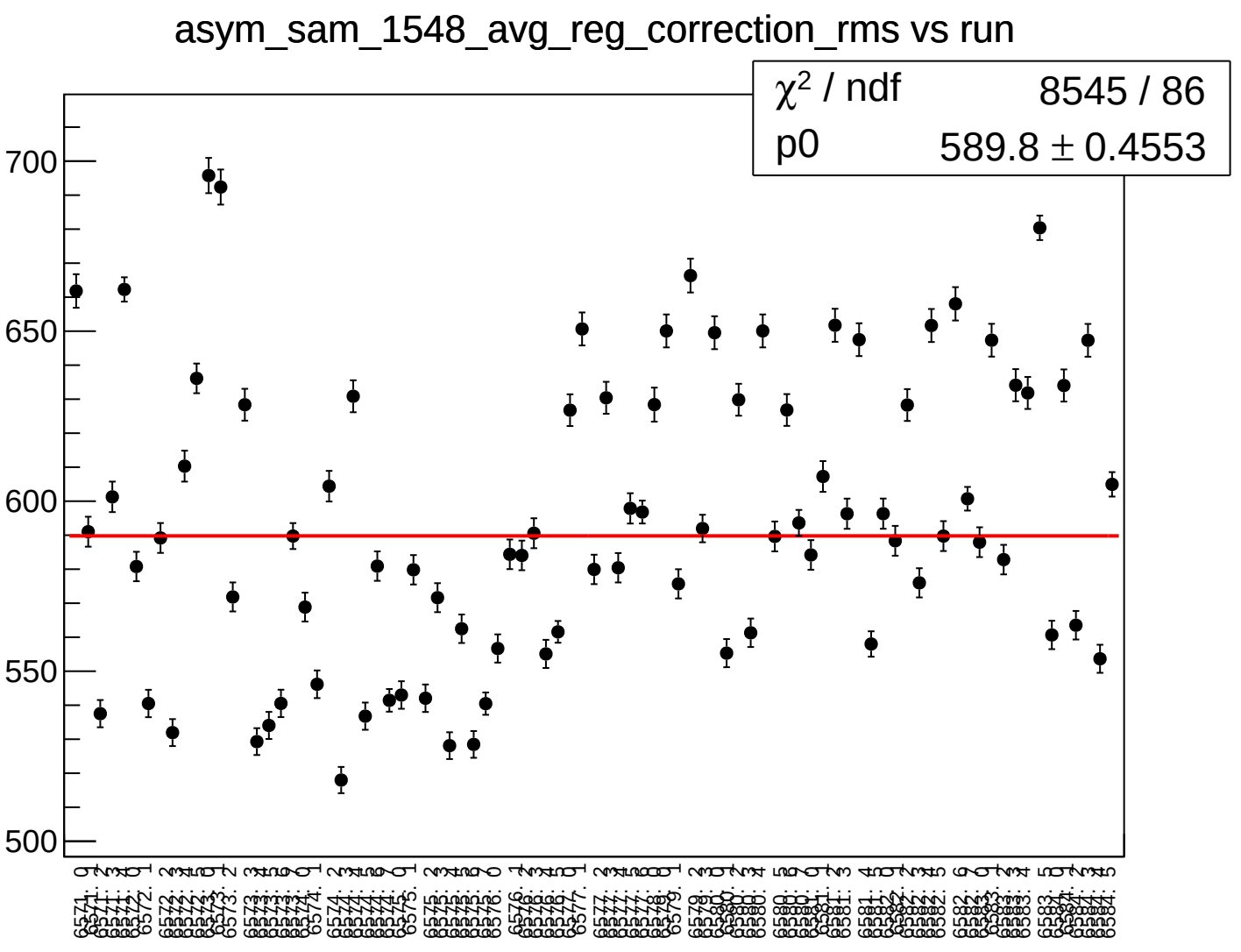

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 74.72 / 86
p0 170.8 ± 105.9
pull
Entries 87
Mean 159.2
Std Dev 0

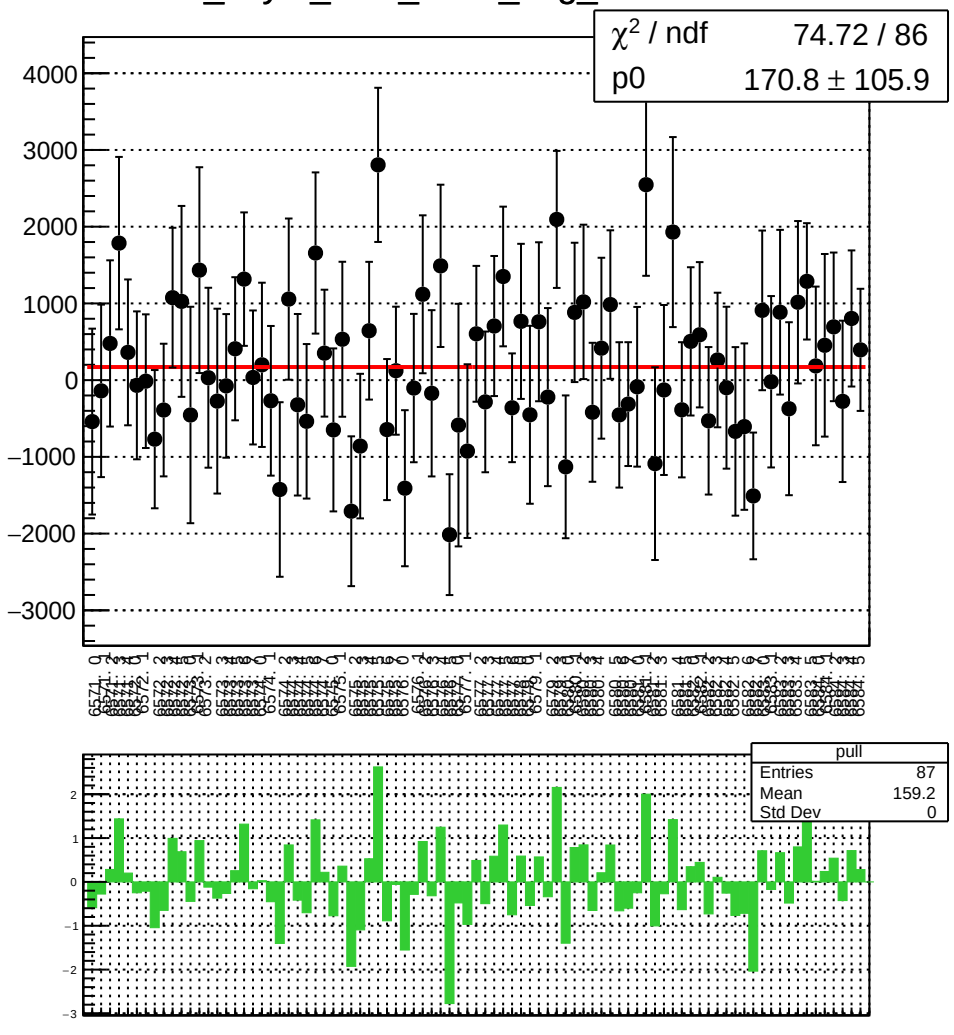

pull1D
Entries 87
Mean 0.009229
Std Dev 0.9267

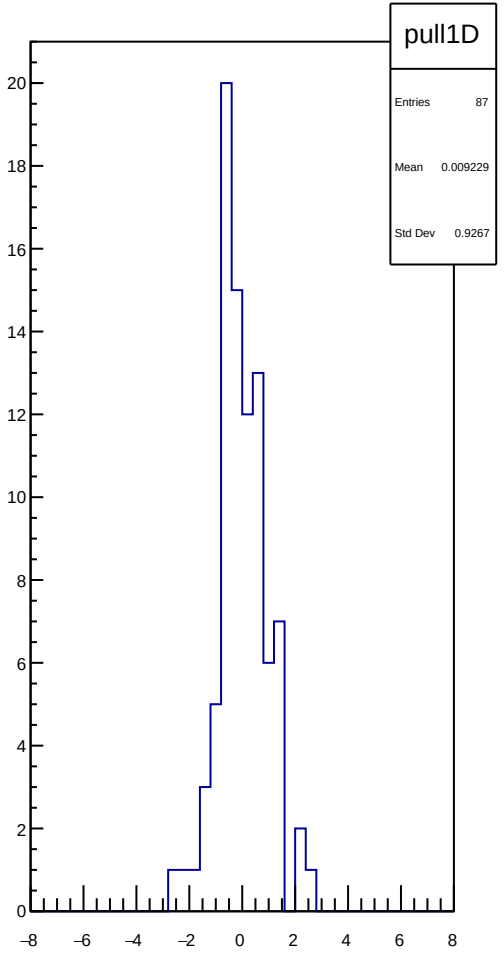

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 2.094e+04 / 86
p0 96.65 ± 0.07489
150
140
130
120
110
100
90
80

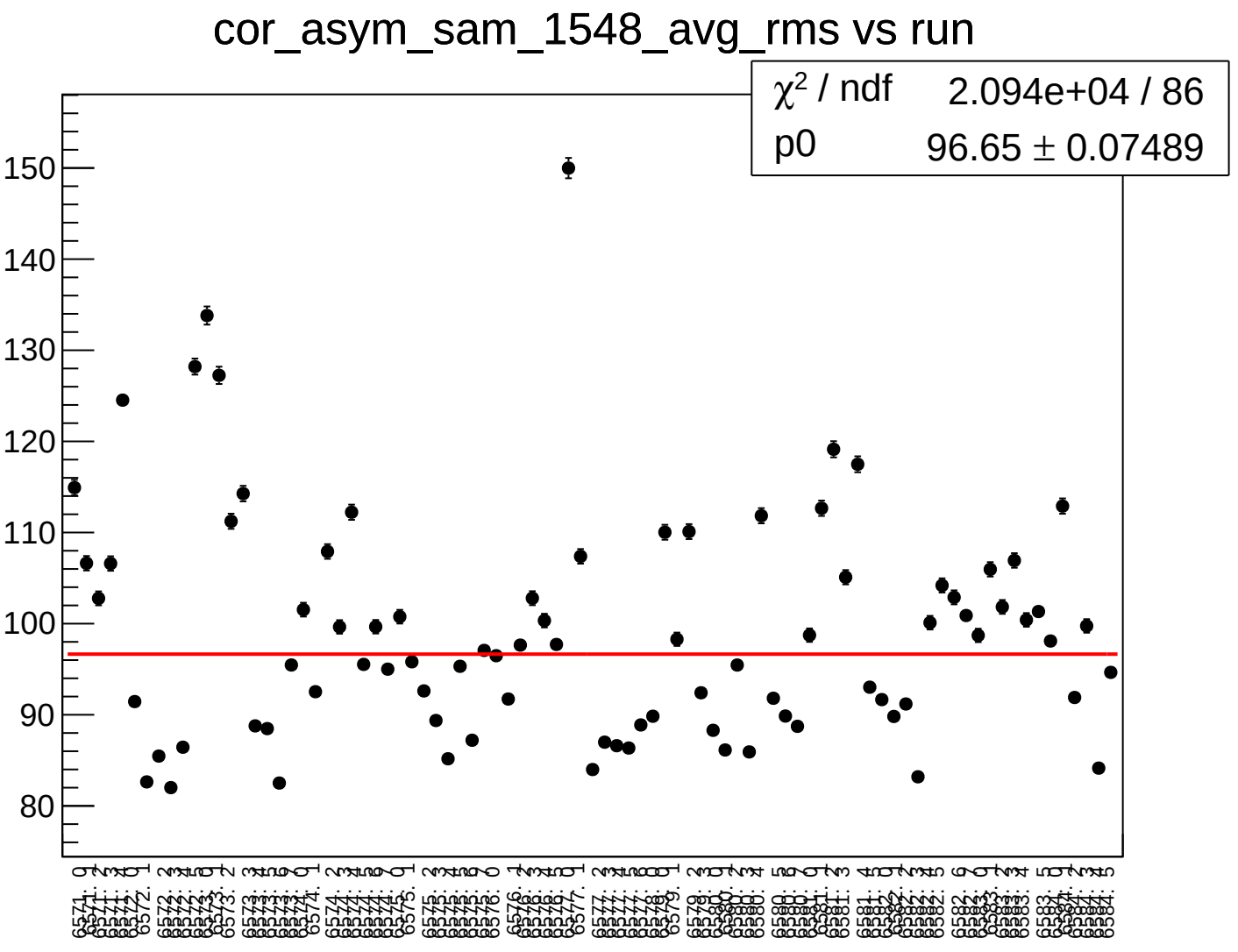

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 123.8 / 86
p0 −380.8 ± 643.9
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −701.9
Std Dev 0
2
1
0
−1
−2

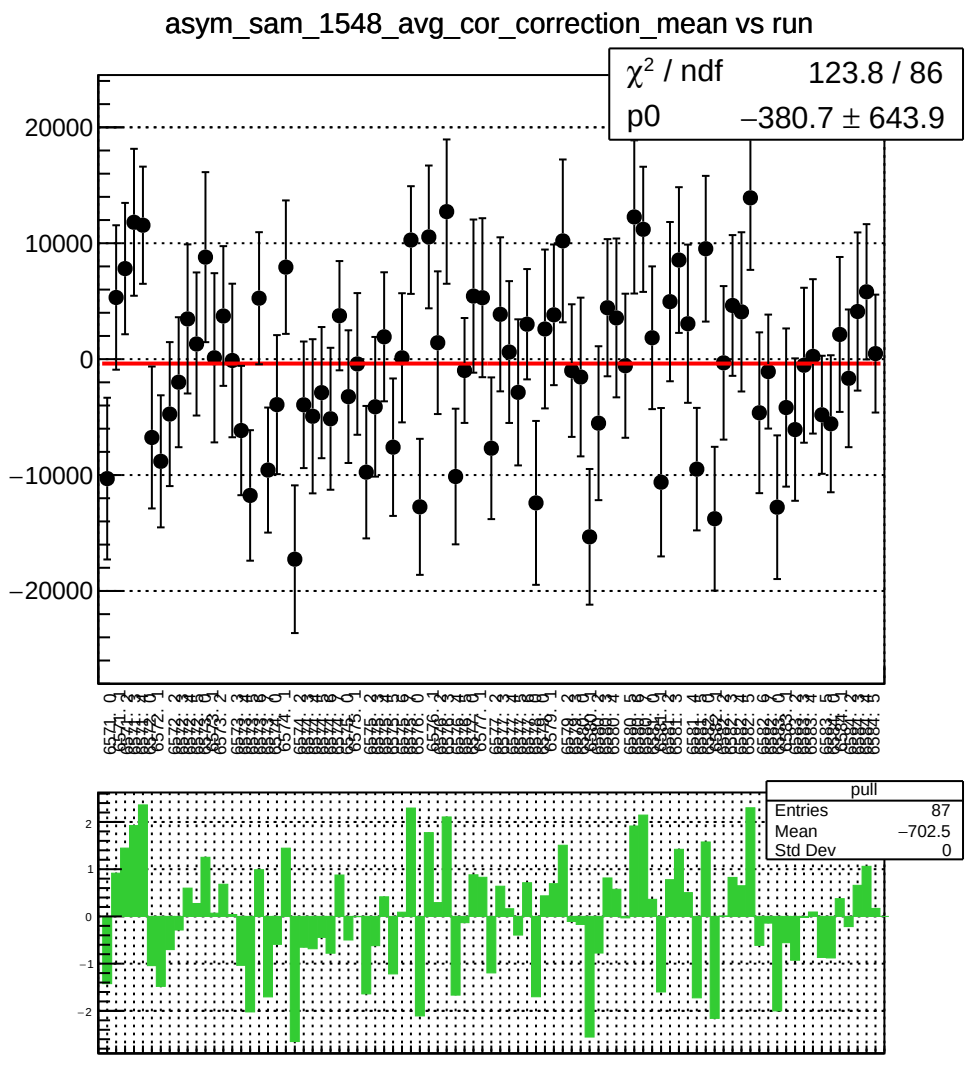

pull1D
Entries 87
Mean −0.0008728
Std Dev 1.193
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

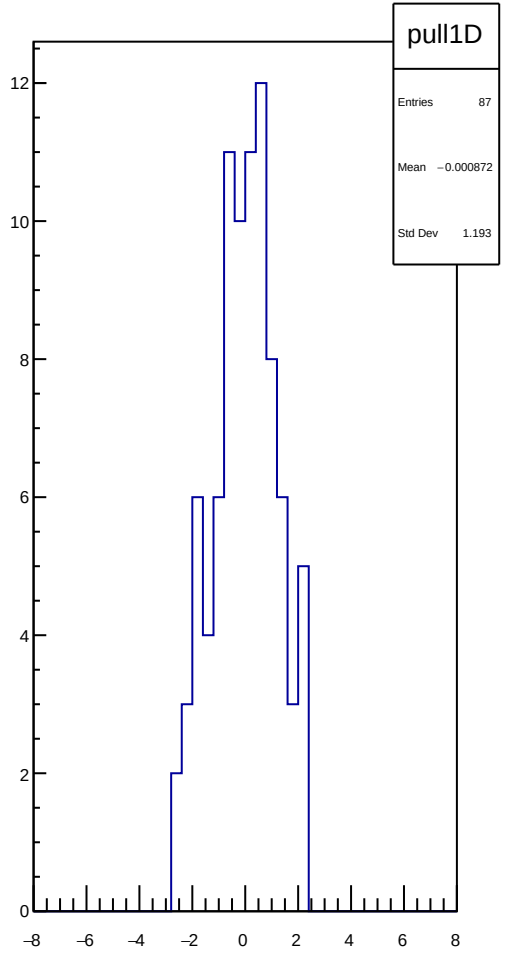

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 8545 / 86
p0 589.8 ± 0.4553
700
650
600
550
500

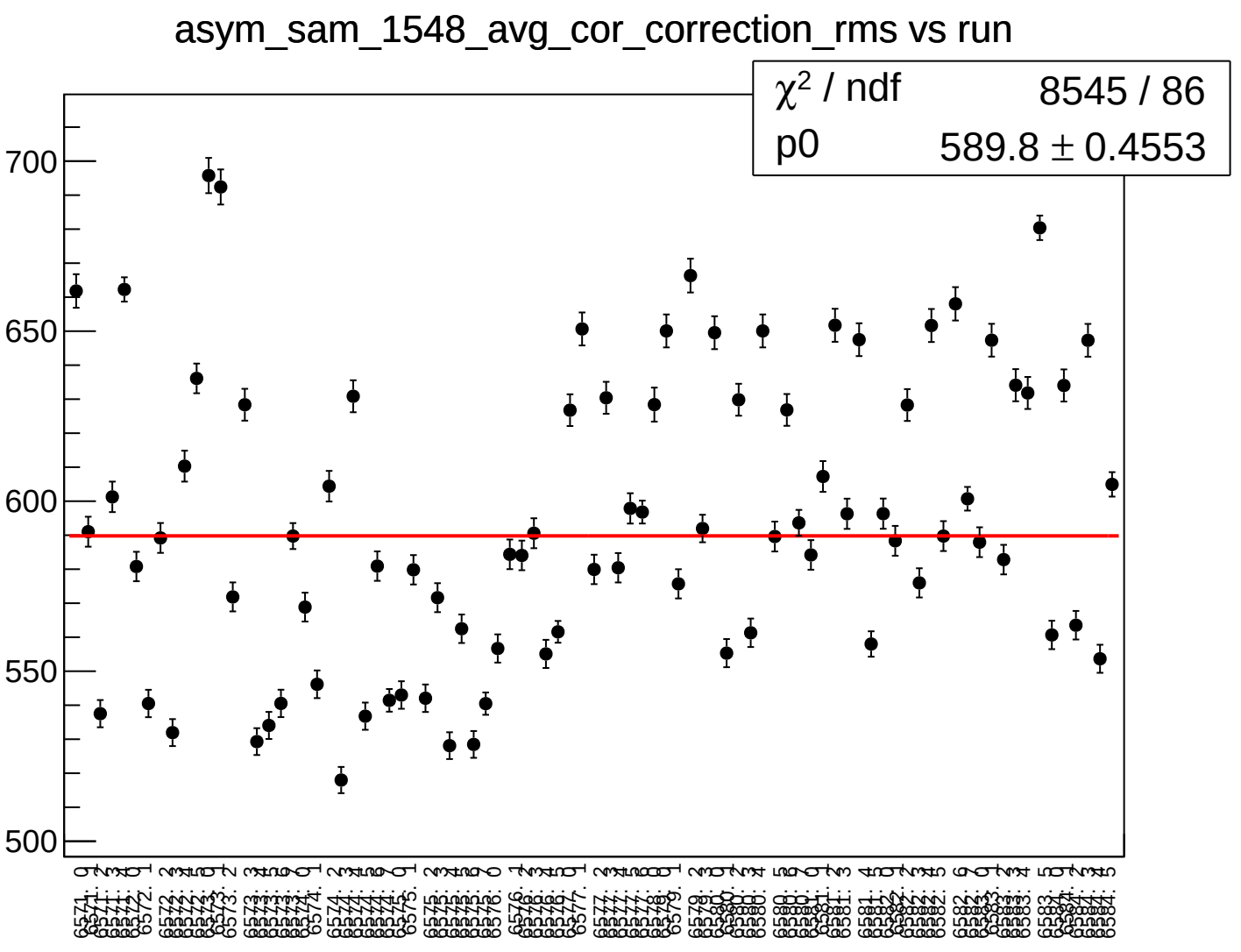

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 74.72 / 86
p0 170.8 ± 105.9
pull
Entries 87
Mean 159.2
Std Dev 0

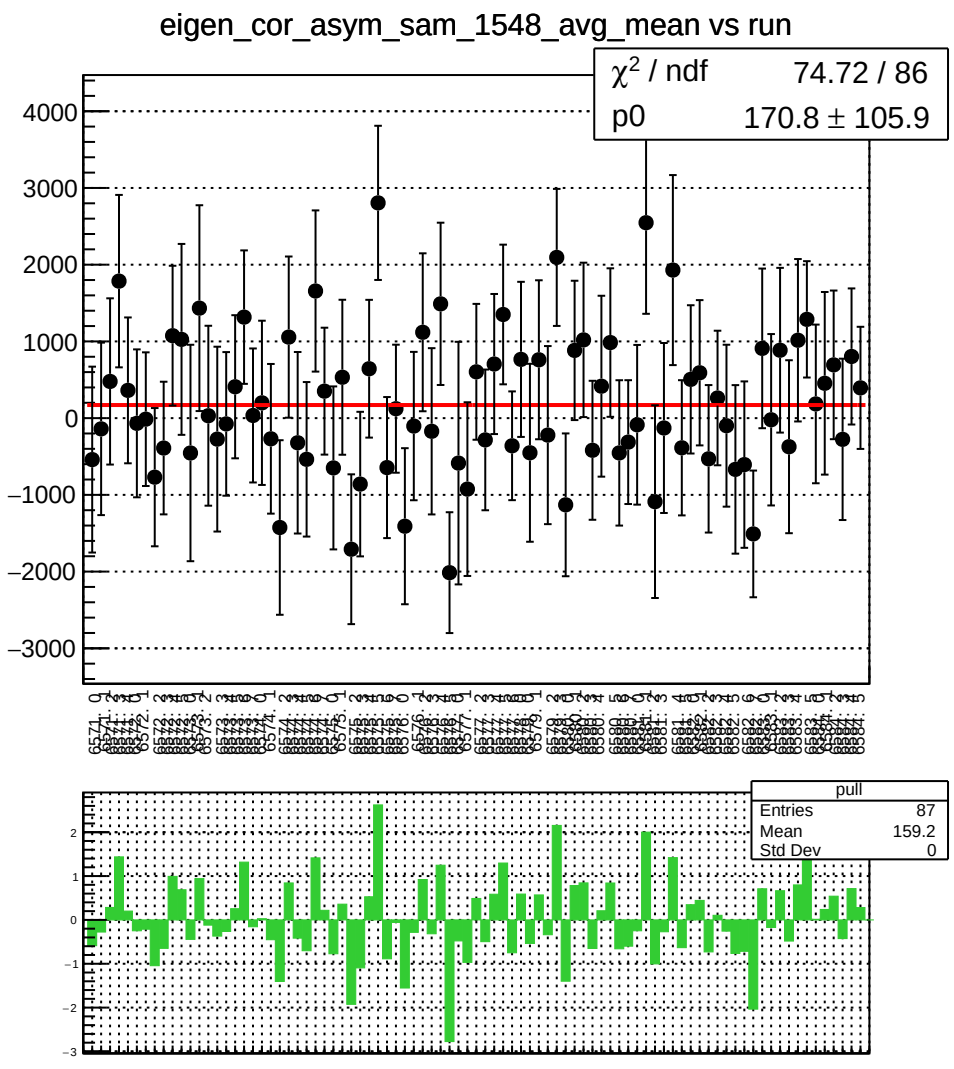

pull1D
Entries 87
Mean 0.009229
Std Dev 0.9267

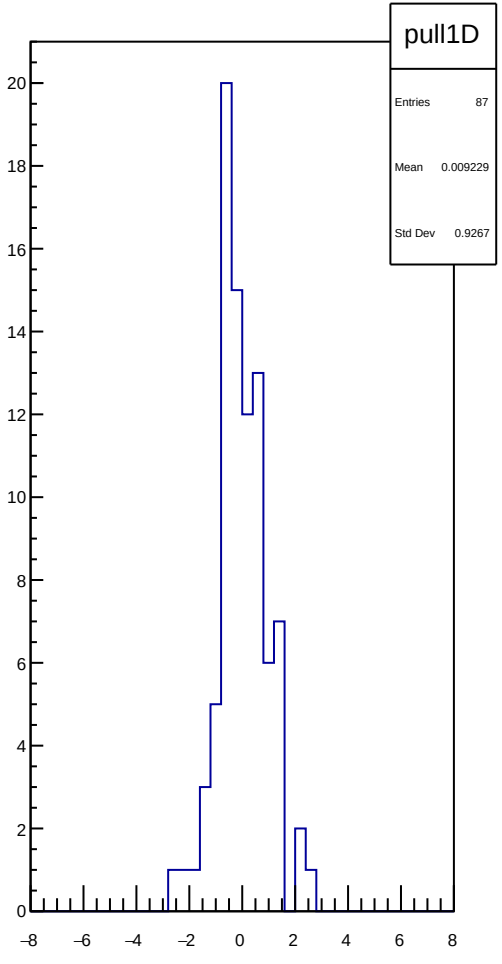

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 2.094e+04 / 86
p0 96.65 ± 0.07489
150
140
130
120
110
100
90
80

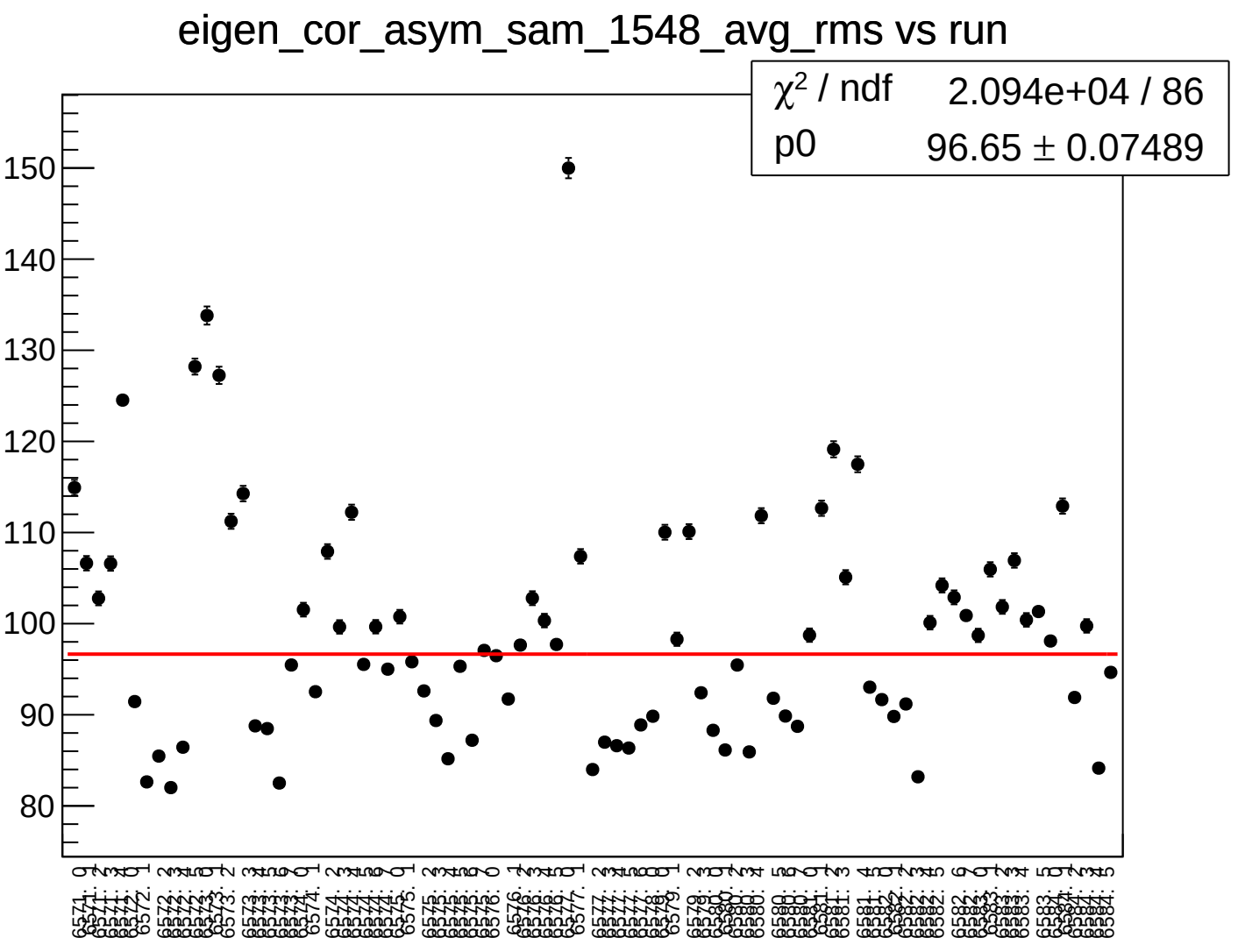

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 123.8 / 86
p0 −380.7 ± 643.9
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −702.5
Std Dev 0
2
1
0
−1
−2

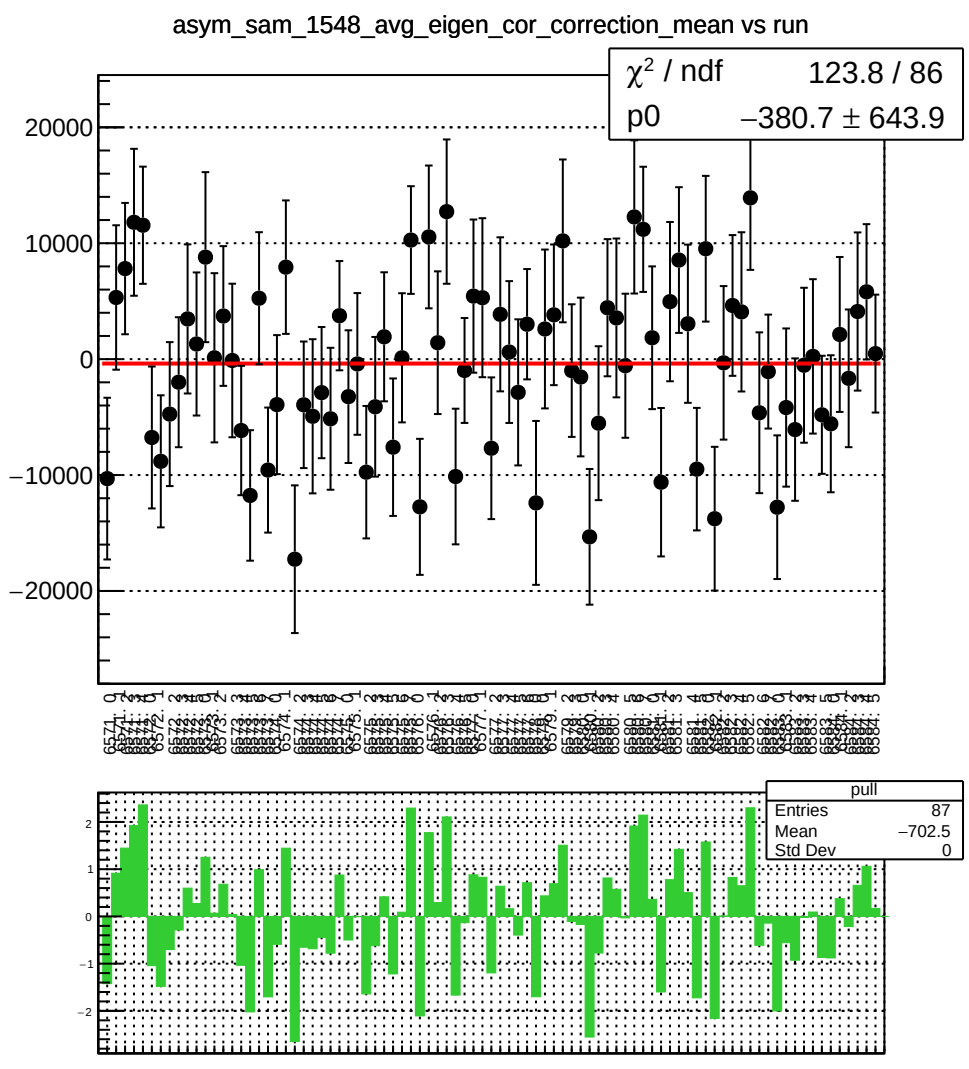

pull1D
Entries 87
Mean −0.000872
Std Dev 1.193
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

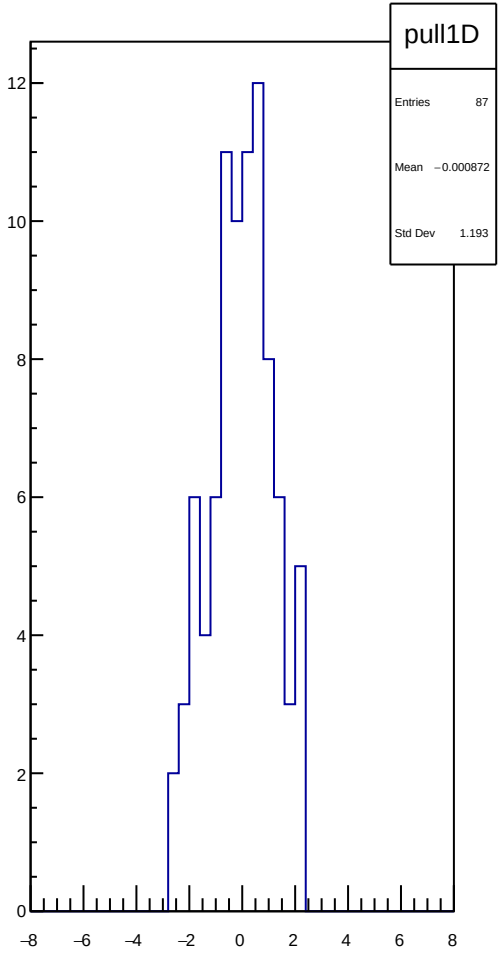

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 8545 / 86
p0 589.8 ± 0.4553
700
650
600
550
500

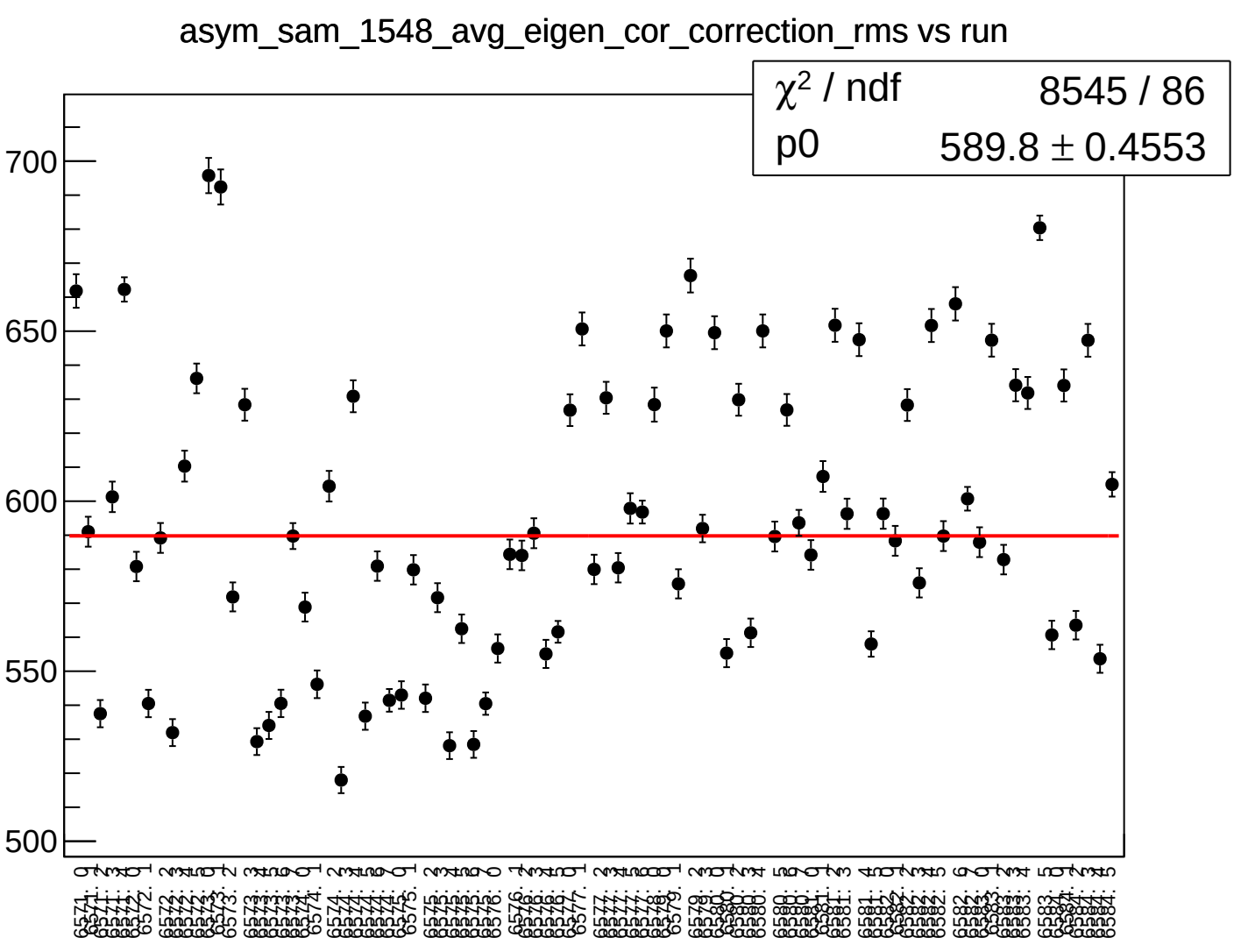

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 74.72 / 86
p0 170.8 ± 105.9
pull
Entries 87
Mean 159.2
Std Dev 0

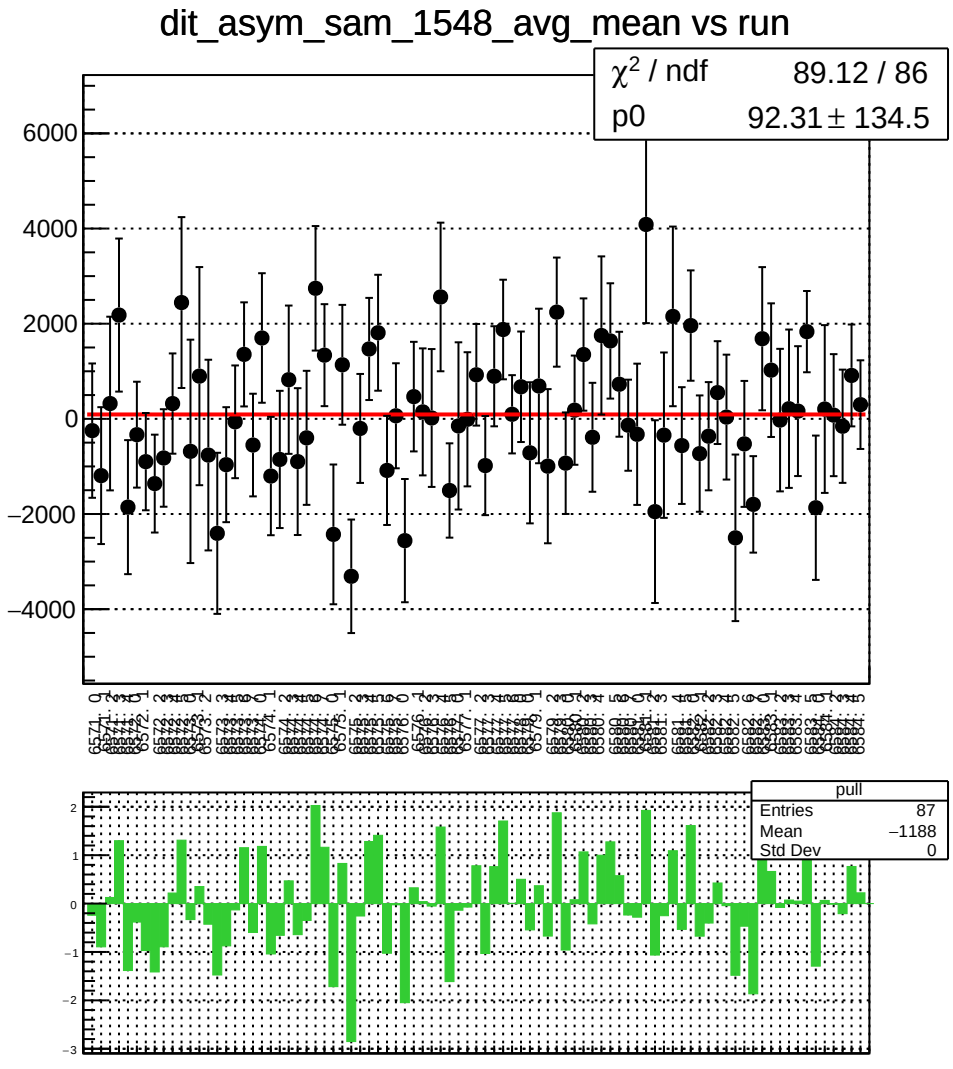

pull1D
Entries 87
Mean 0.009229
Std Dev 0.9267

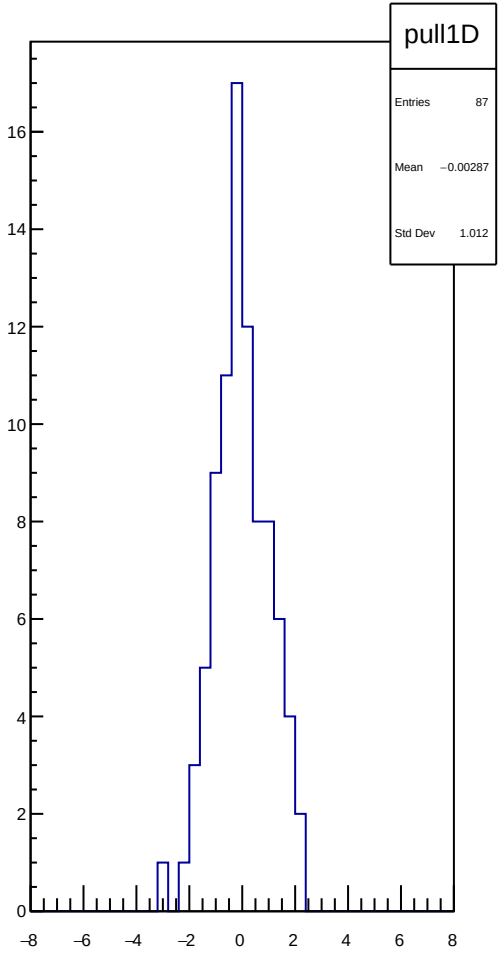

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 2.094e+04 / 86
p0 96.65 ± 0.07489
150
140
130
120
110
100
90
80

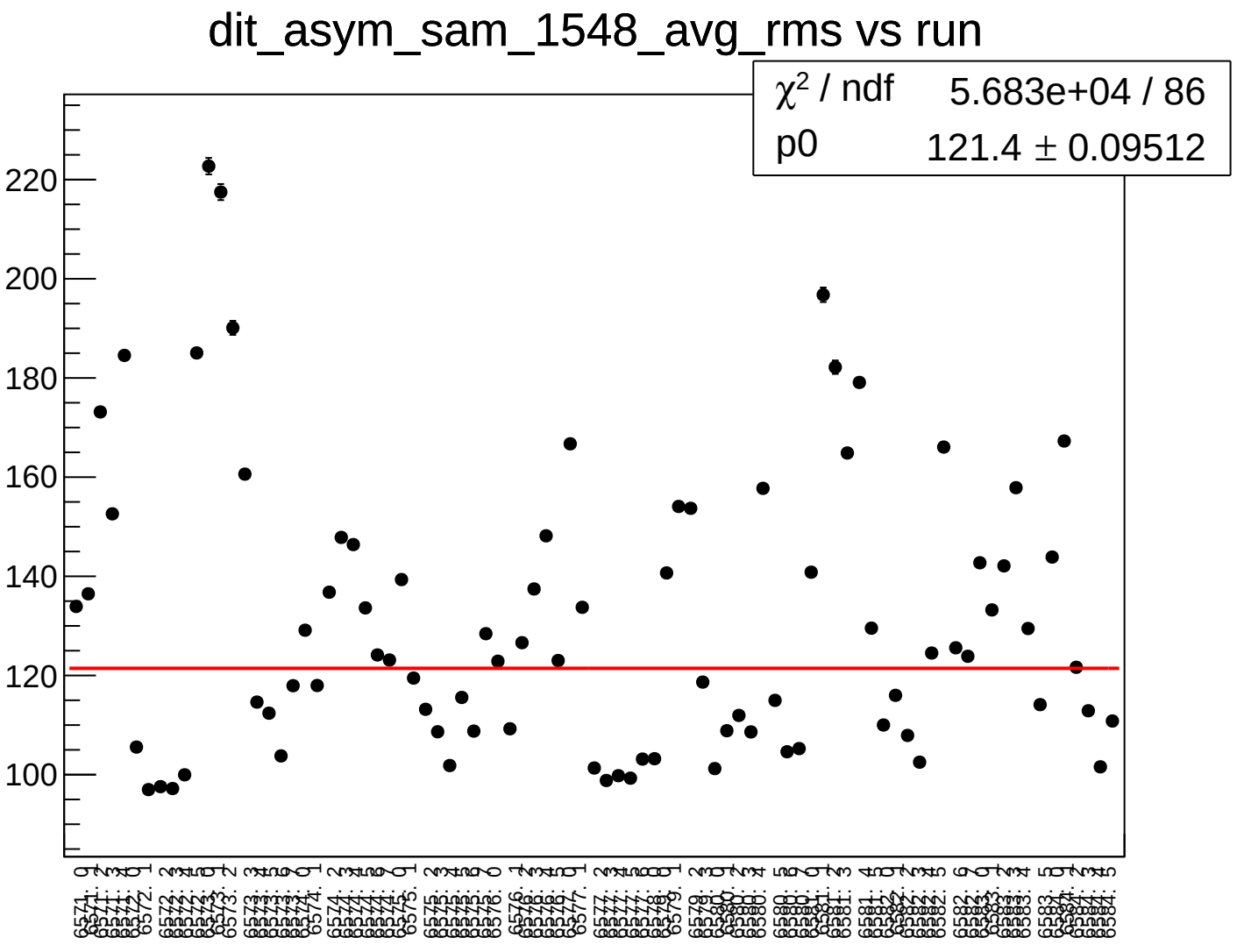

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 123.8 / 86
p0 −380.7 ± 643.9
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −702.5
Std Dev 0
2
1
0
−1
−2

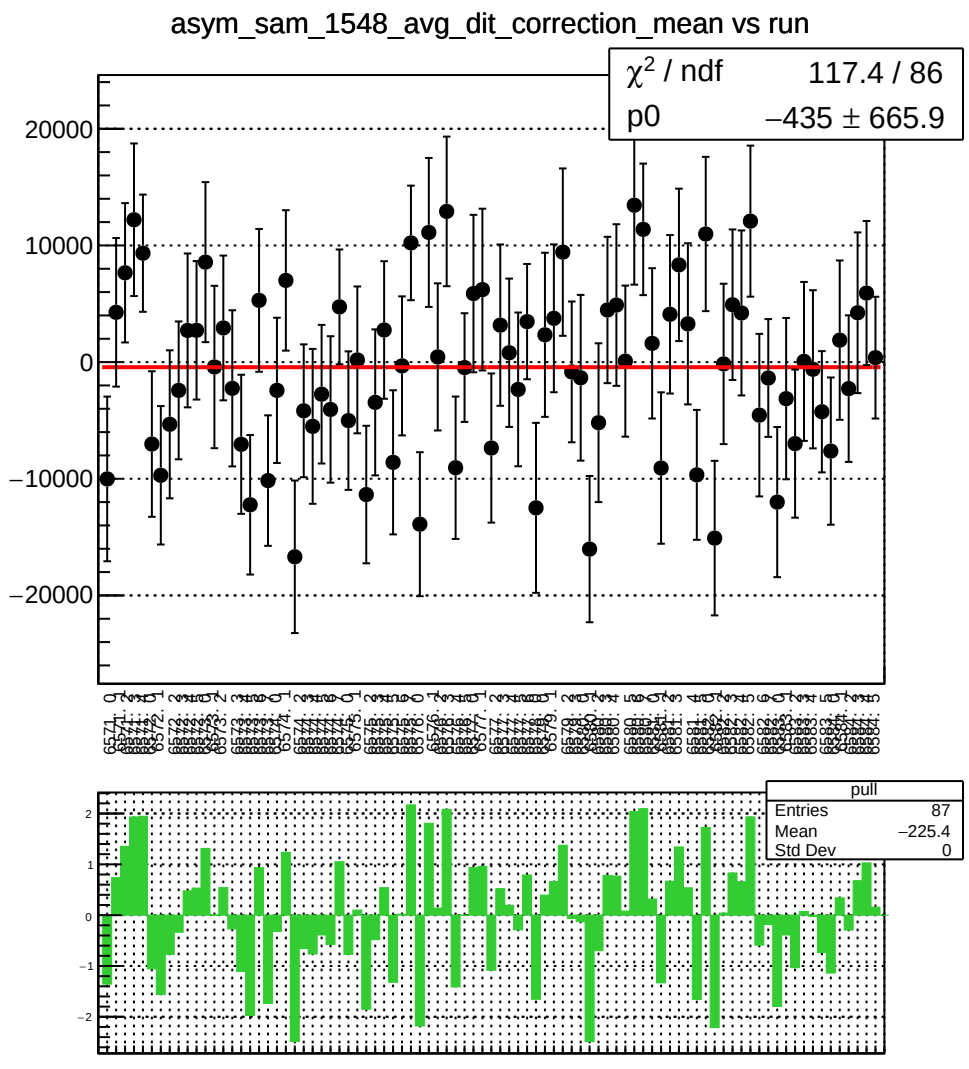

pull1D
Entries 87
Mean −0.000872
Std Dev 1.193
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

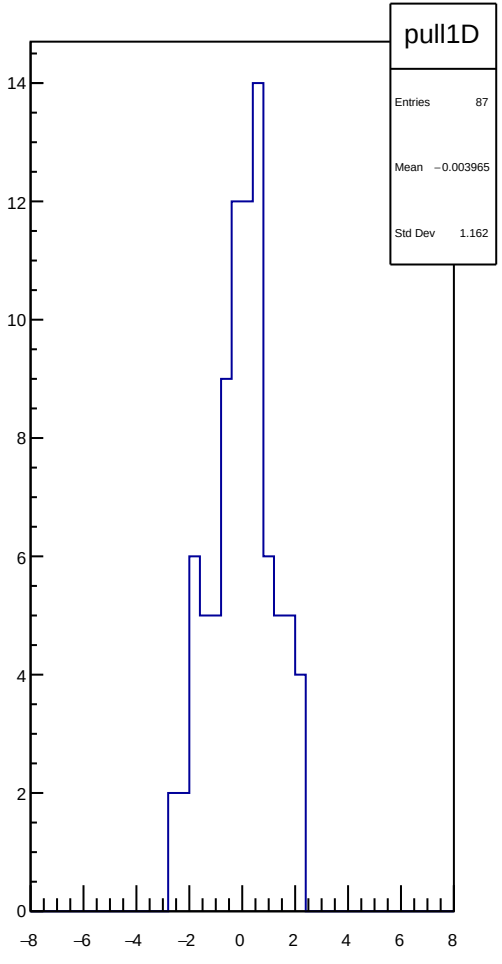

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 8545 / 86
p0 589.8 ± 0.4553
700
650
600
550
500

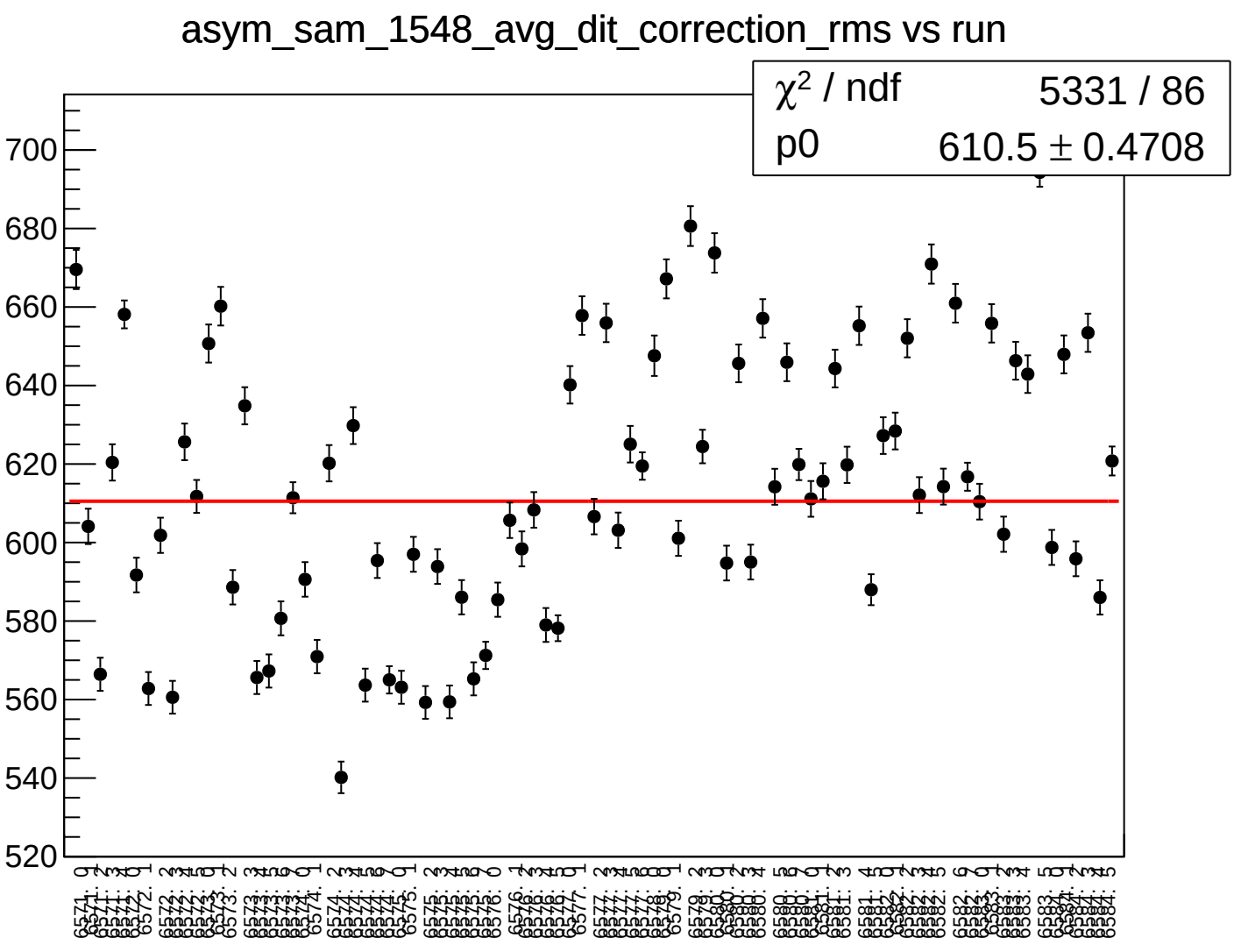

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 89.12 / 86
p0 92.31 ± 134.5
pull
Entries 87
Mean −1188
Std Dev 0

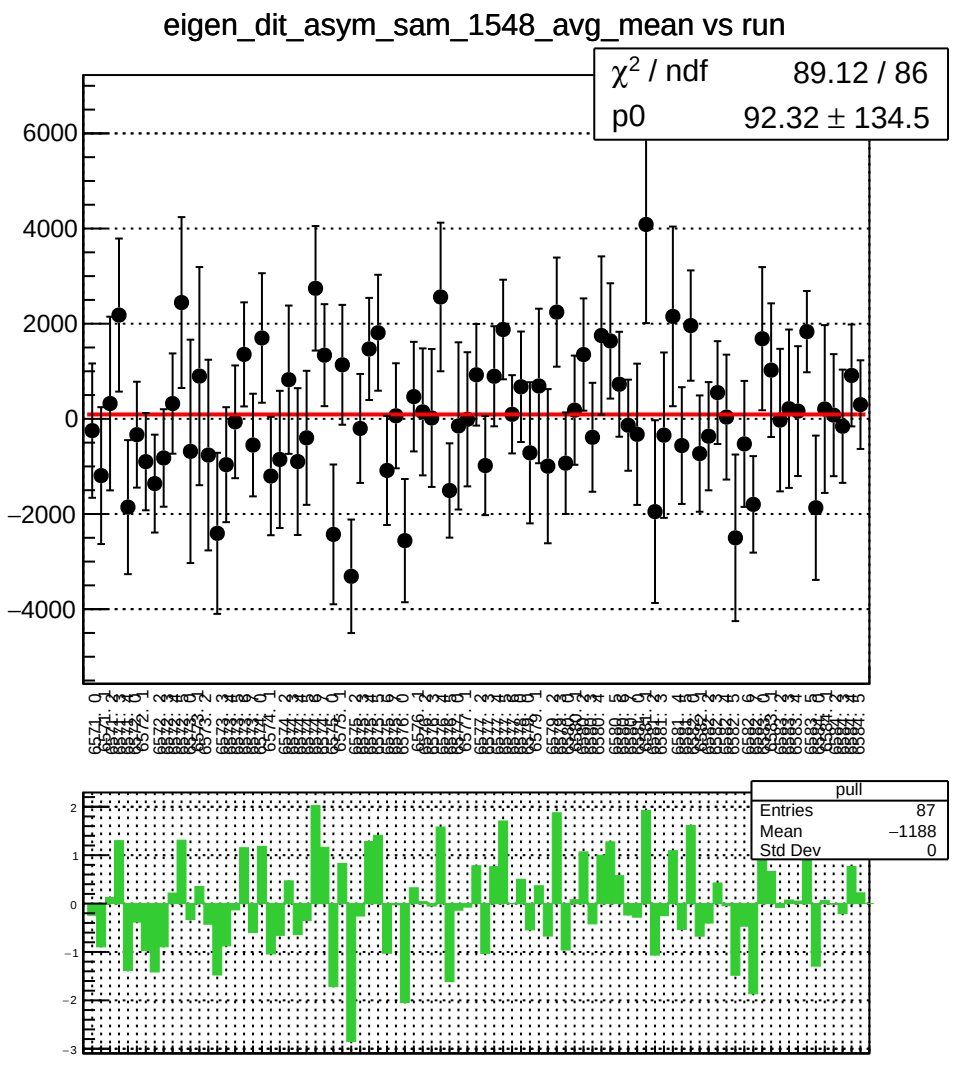

pull1D
Entries 87
Mean −0.00287
Std Dev 1.012

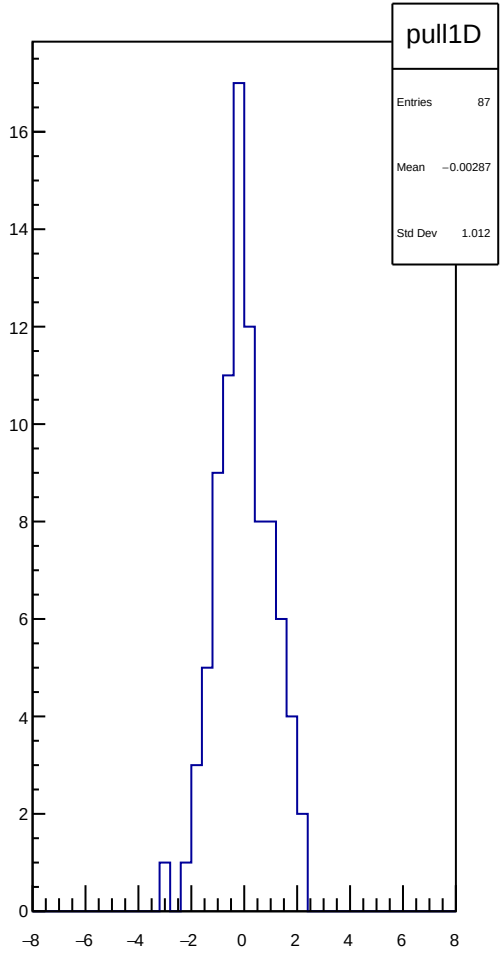

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 5.683e+04 / 86
p0 121.4 ± 0.09512
220
200
180
160
140
120
100

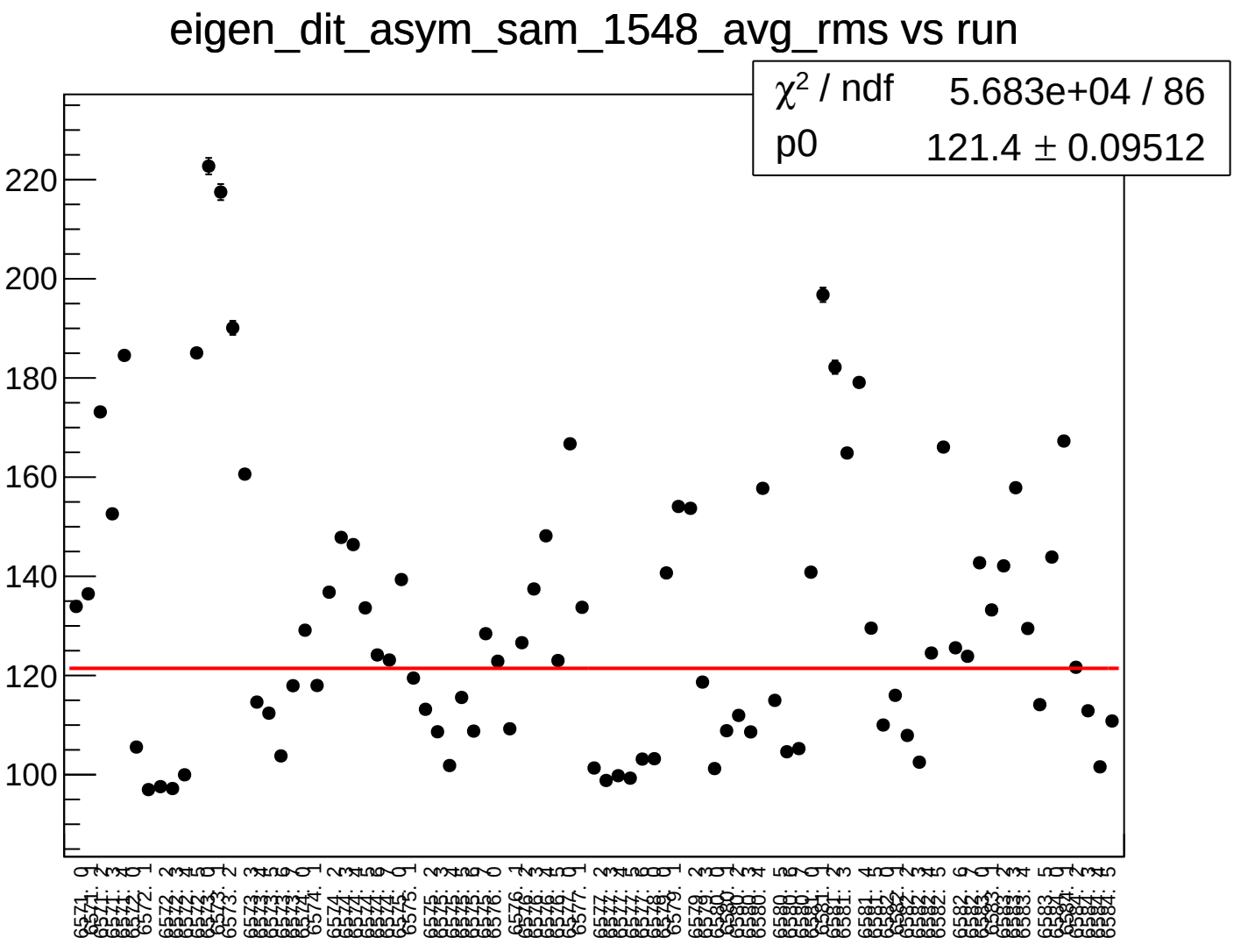

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 117.4 / 86
p0 −435 ± 665.9
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −225.4
Std Dev 0
2
1
0
−1
−2

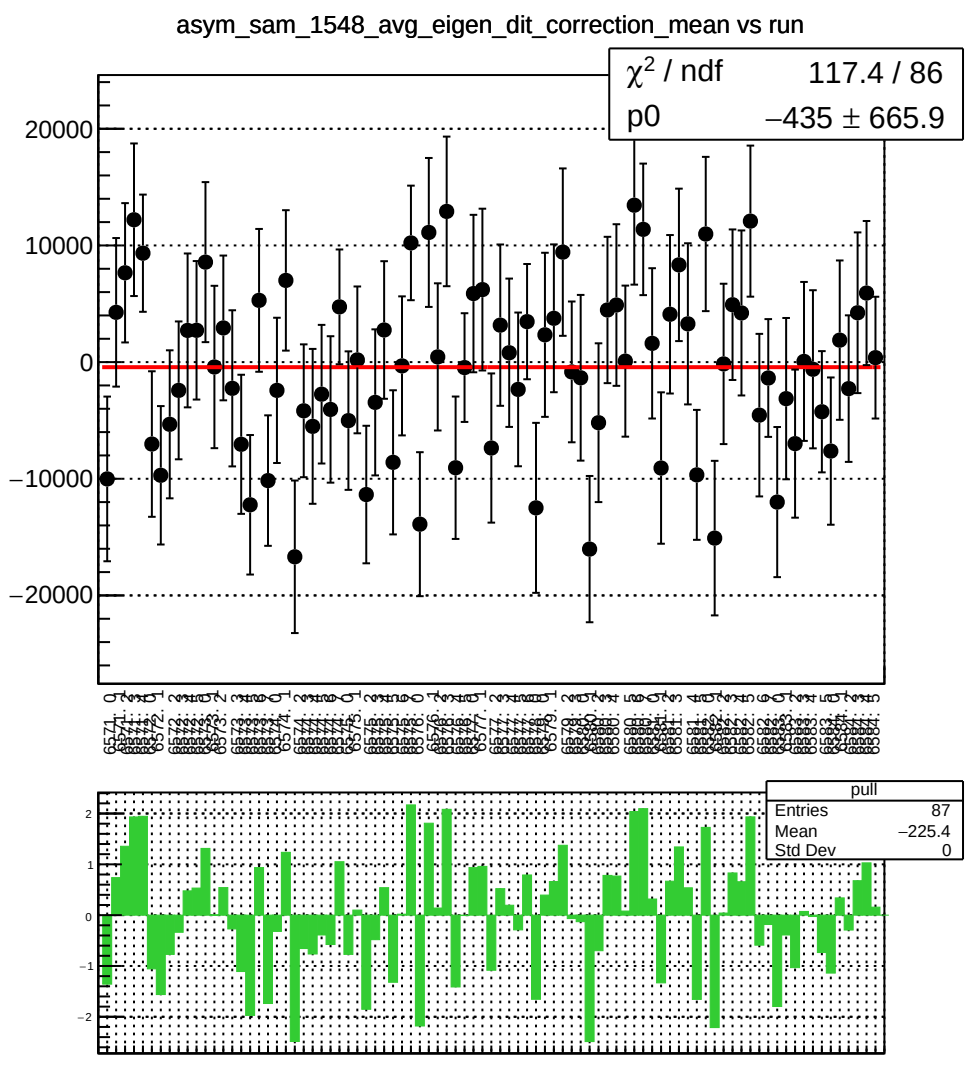

pull1D
Entries 87
Mean −0.003965
Std Dev 1.162
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

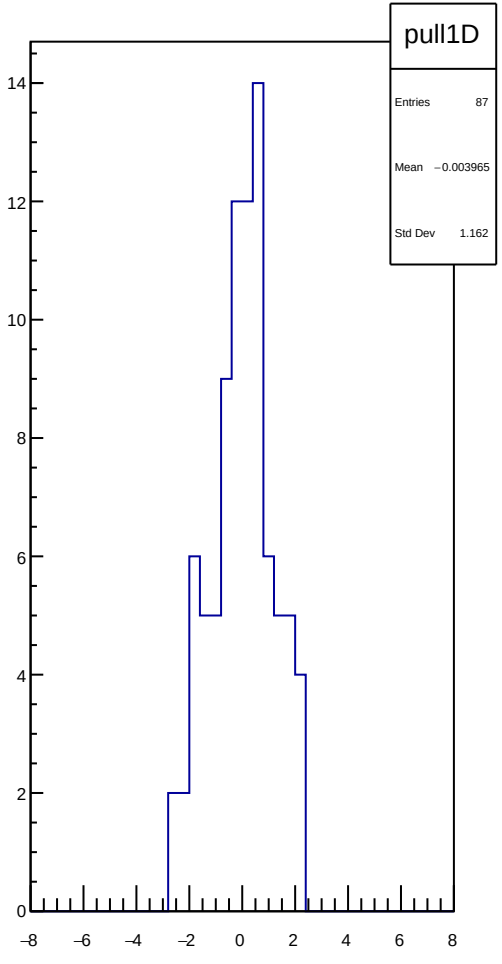

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 5331 / 86
p0 610.5 ± 0.4708
700
680
660
640
620
600
580
560
540
520

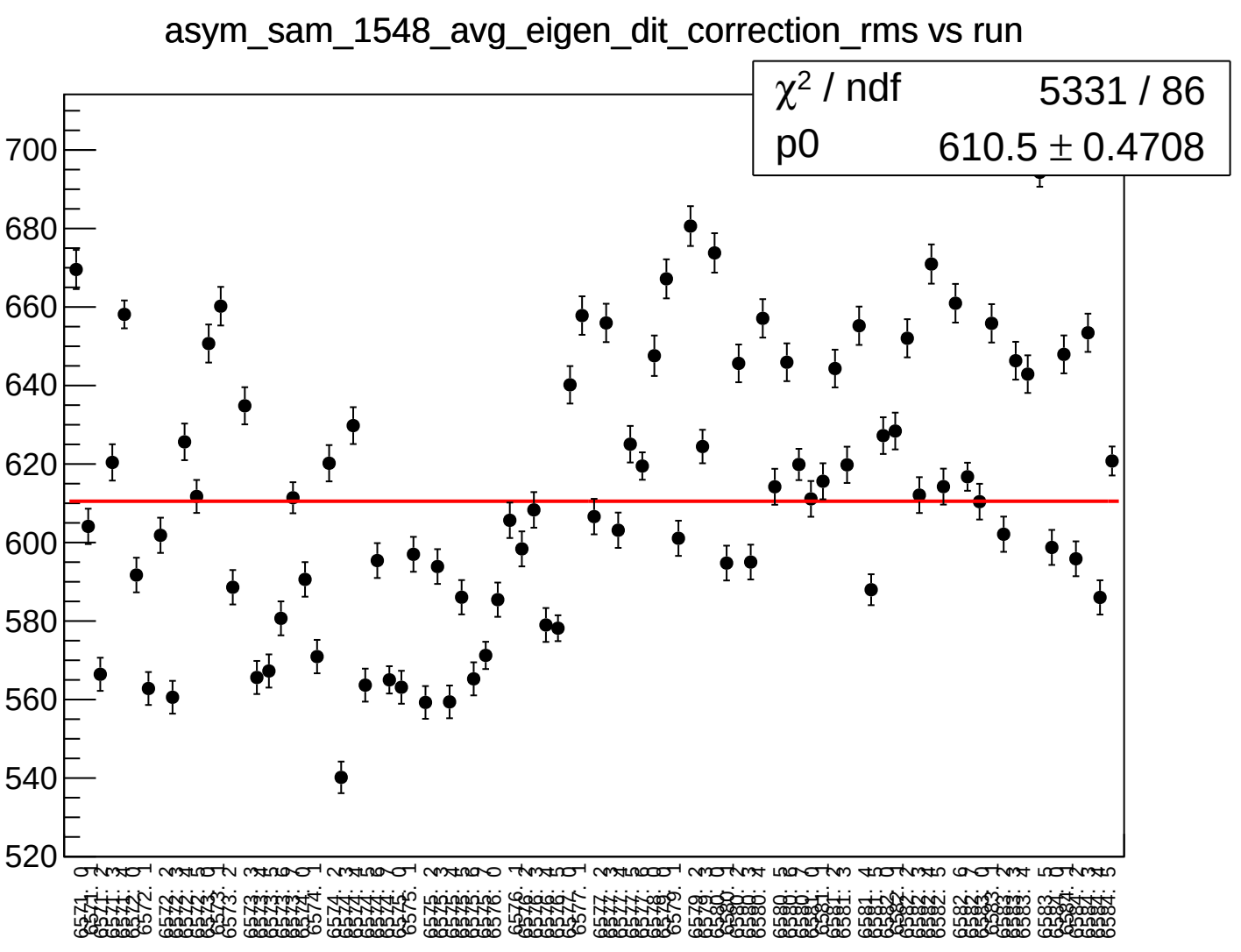

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 89.12 / 86
p0 92.32 ± 134.5
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −1188
Std Dev 0
2
1
0
−1
−2
−3

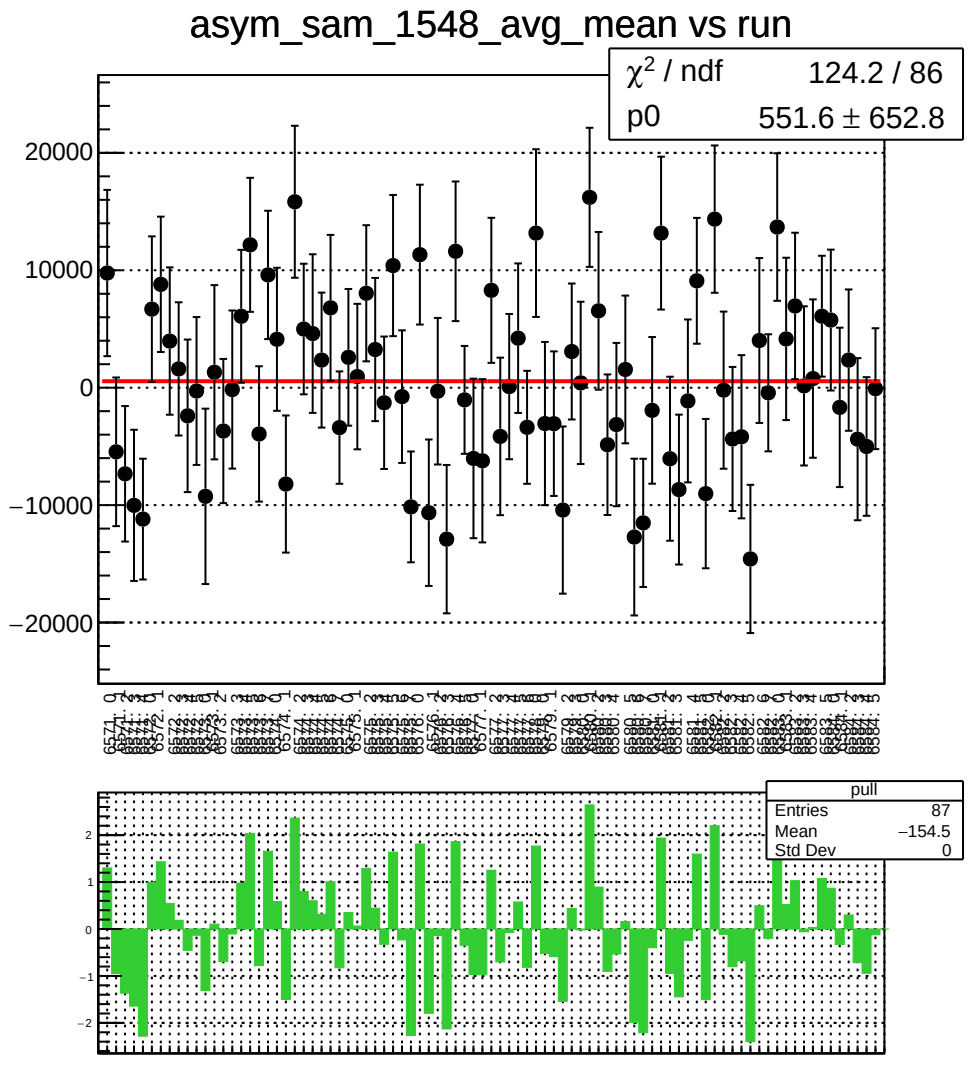

pull1D
Entries 87
Mean −0.00287
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

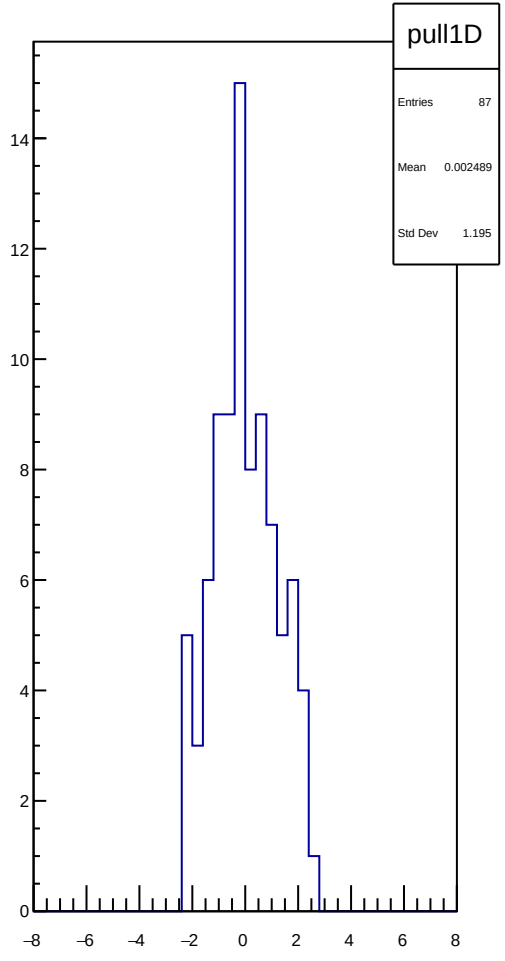

eigen_dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 5.683e+04 / 86
p0 121.4 ± 0.09512
220
200
180
160
140
120
100

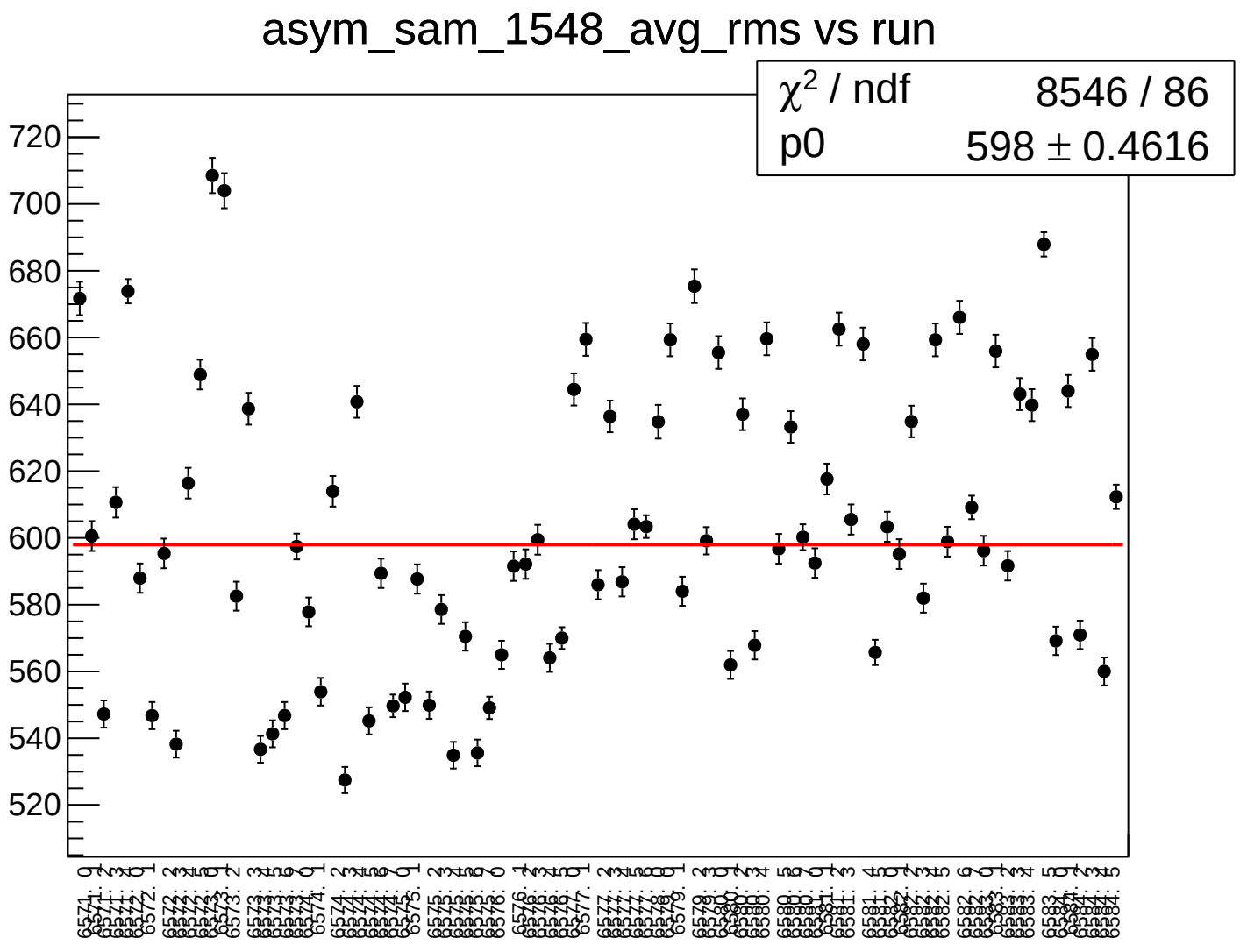

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 117.4 / 86
p0 −435 ± 665.9
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −225.4
Std Dev 0
2
1
0
−1
−2

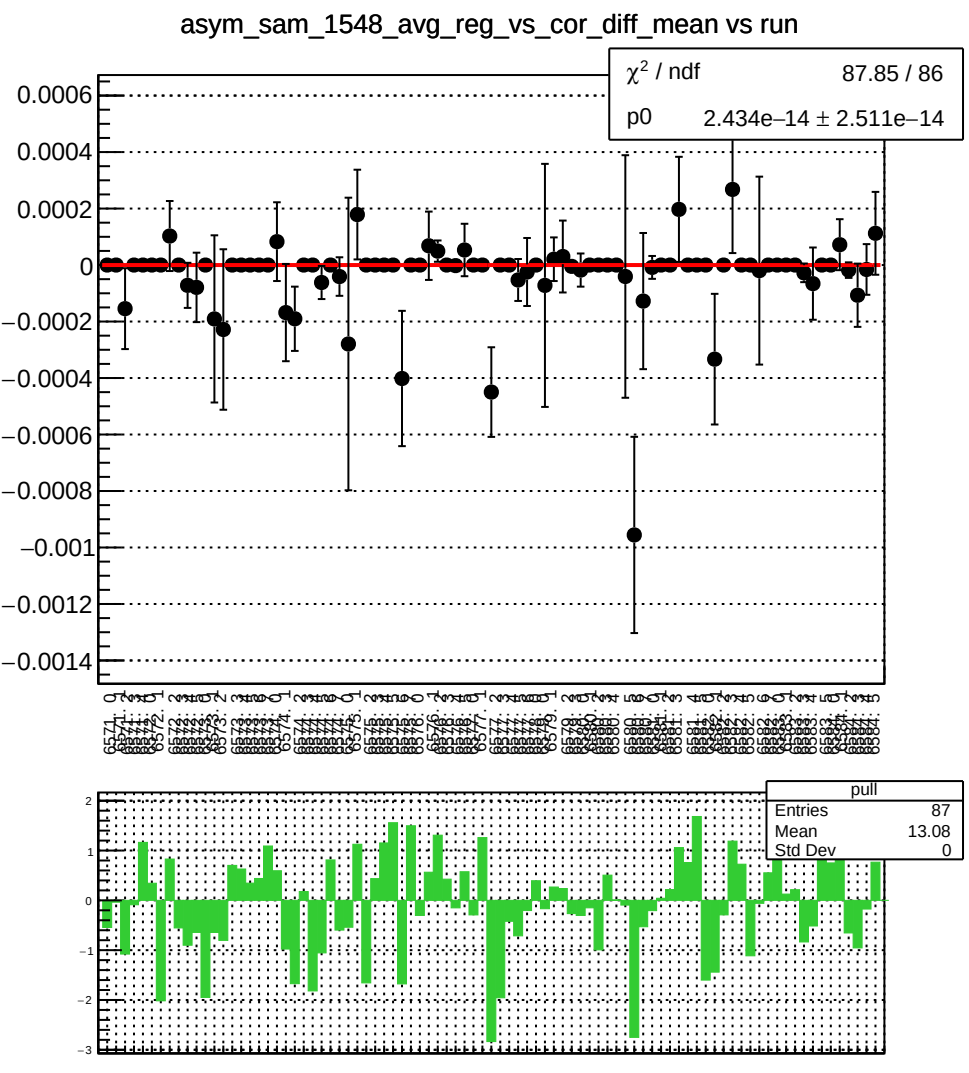

pull1D
Entries 87
Mean −0.003965
Std Dev 1.162
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

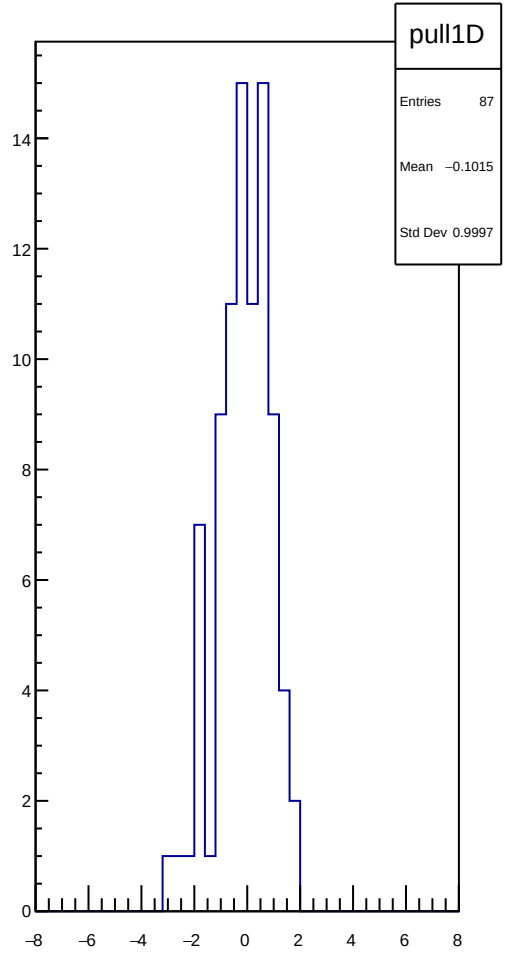

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 5331 / 86
p0 610.5 ± 0.4708
700
680
660
640
620
600
580
560
540
520

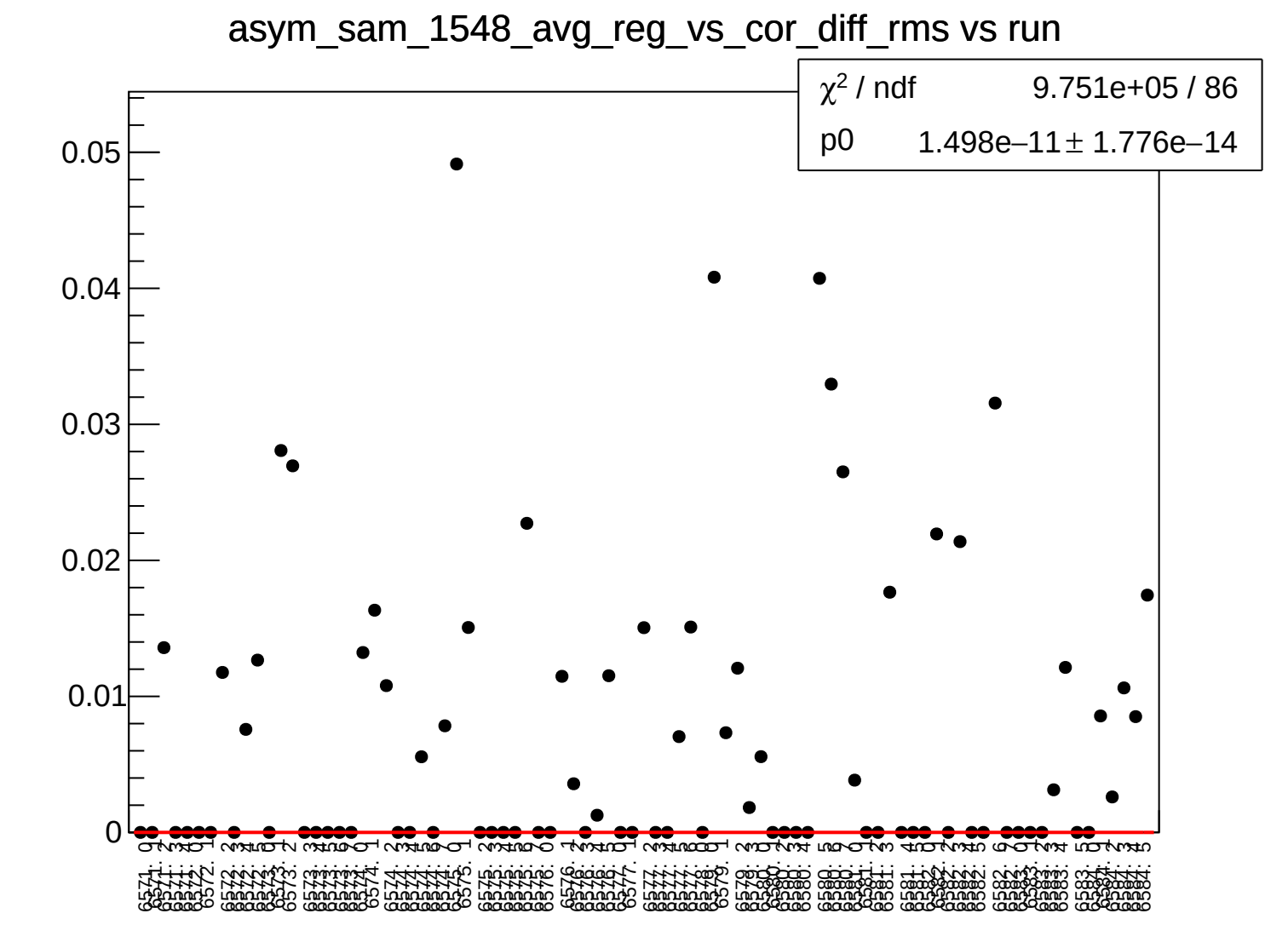

asym_sam_1548_avg_mean vs run
χ² / ndf 124.2 / 86
p0 551.6 ± 652.8
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −154.5
Std Dev 0
2
1
0
−1
−2

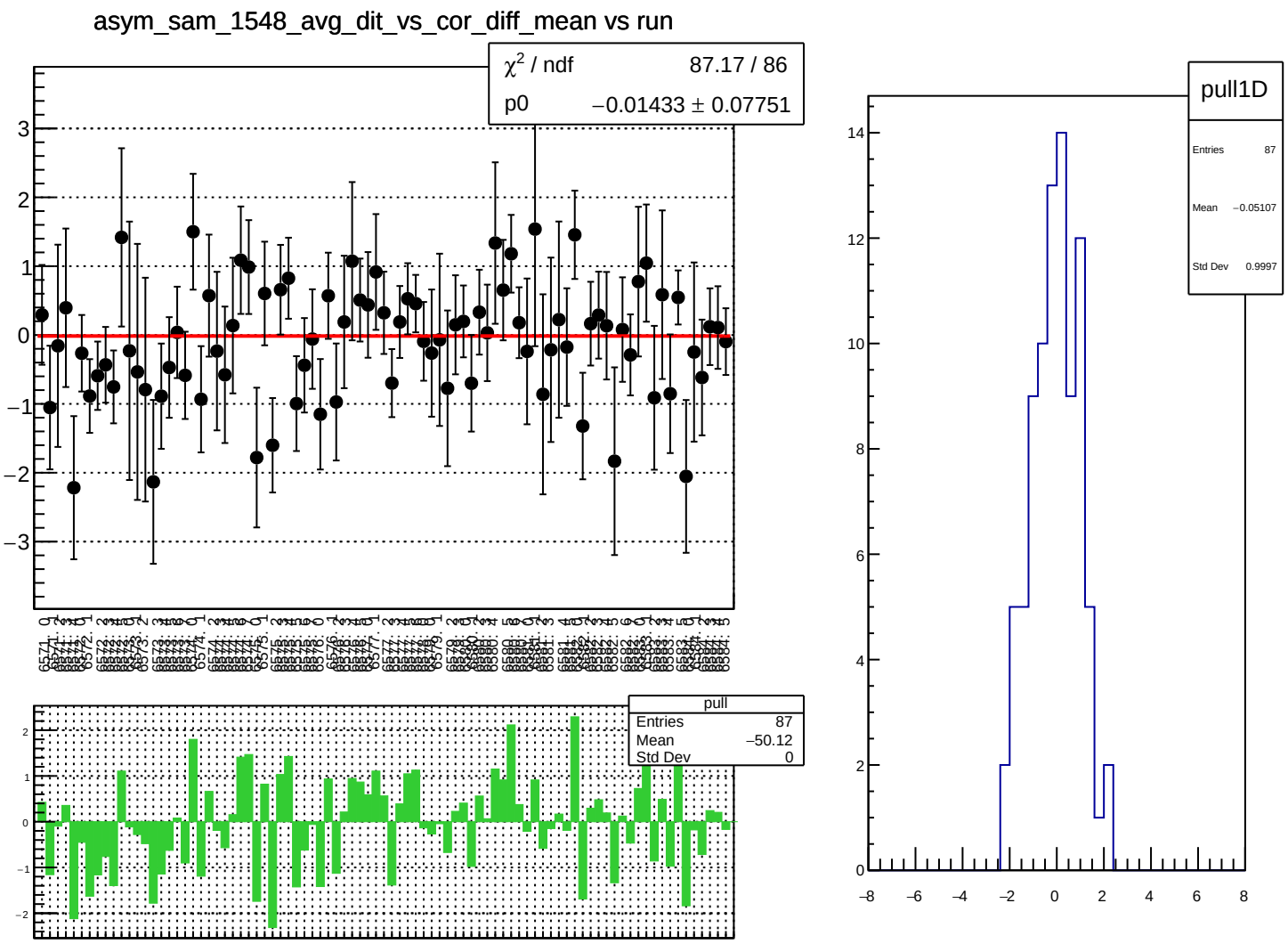

pull1D
Entries 87
Mean 0.002489
Std Dev 1.195
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

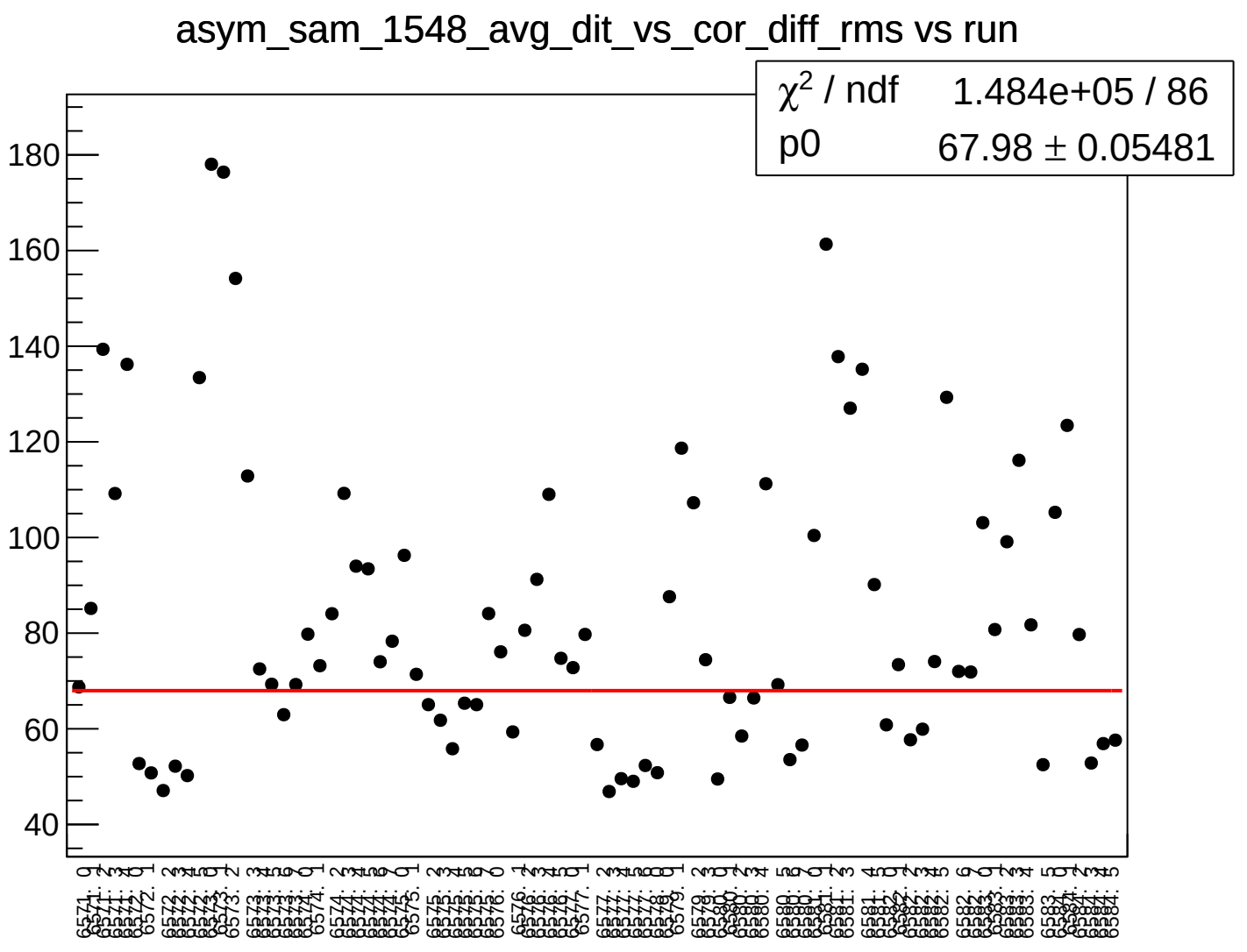

asym_sam_1548_avg_rms vs run
χ² / ndf 8546 / 86
p0 598 ± 0.4616
720
700
680
660
640
620
600
580
560
540
520

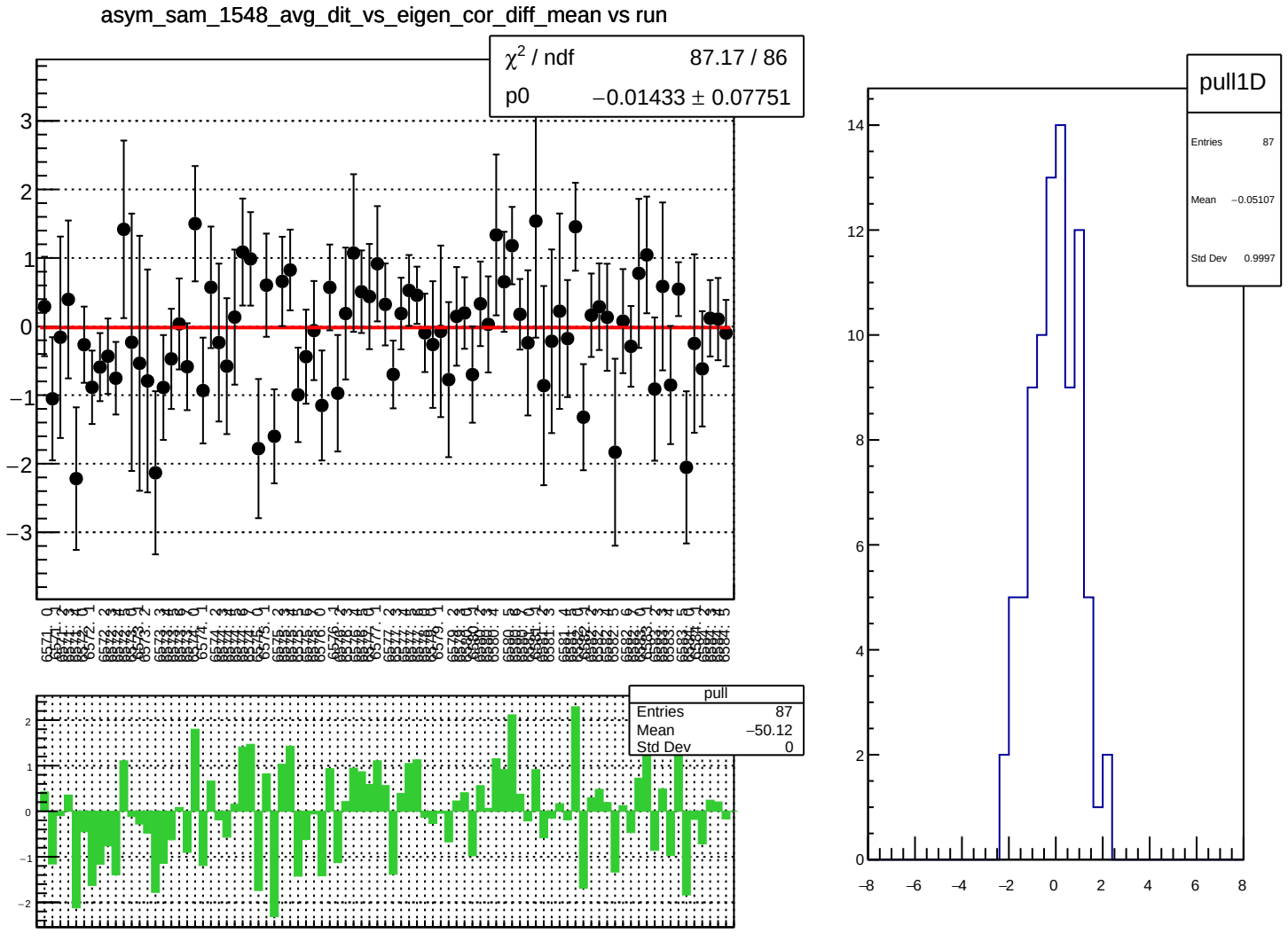

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.85 / 86
p0 2.434e−14 ± 2.511e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
pull
Entries 87
Mean 13.08
Std Dev 0
2
1
0
−1
−2
−3

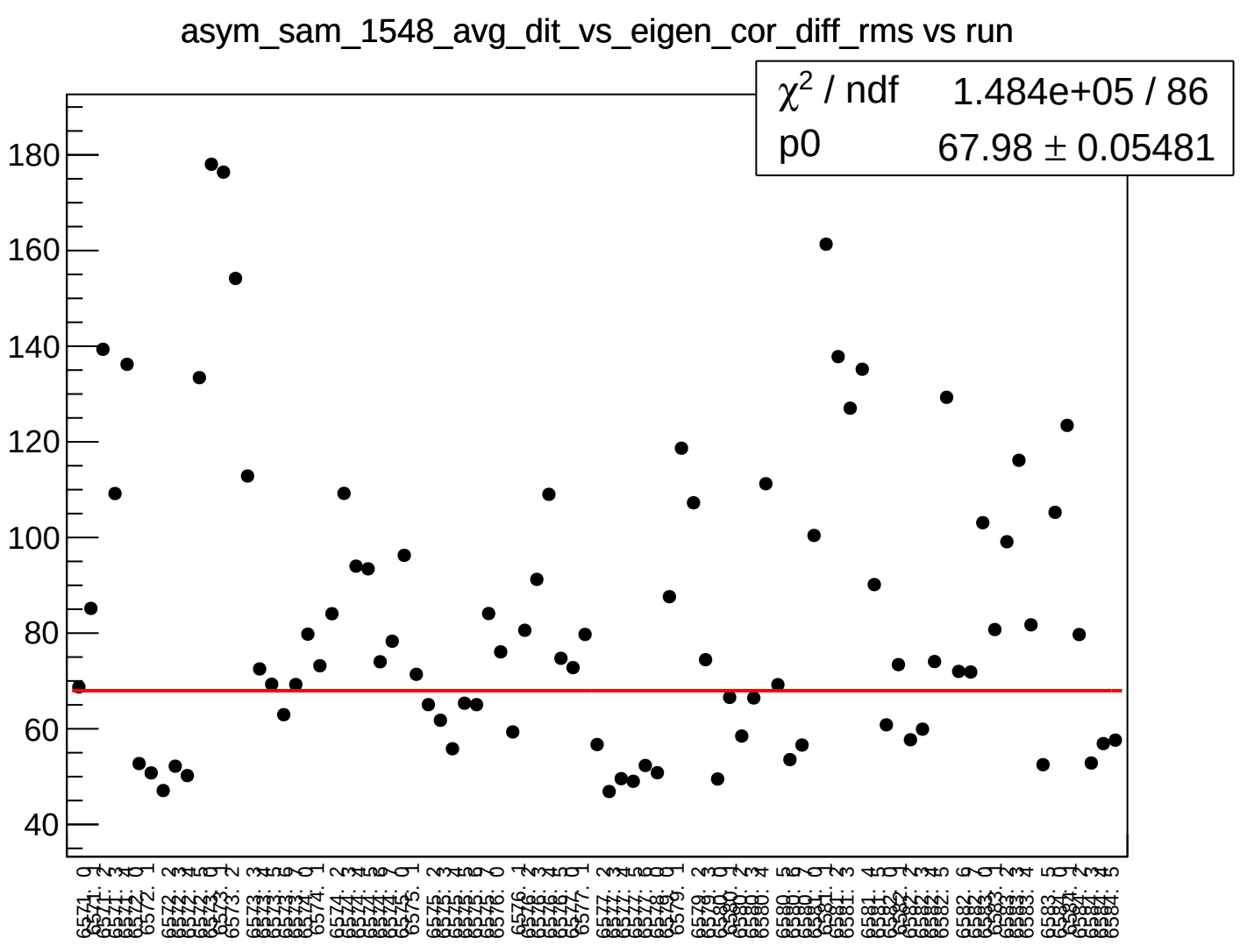

pull1D
Entries 87
Mean −0.1015
Std Dev 0.9997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

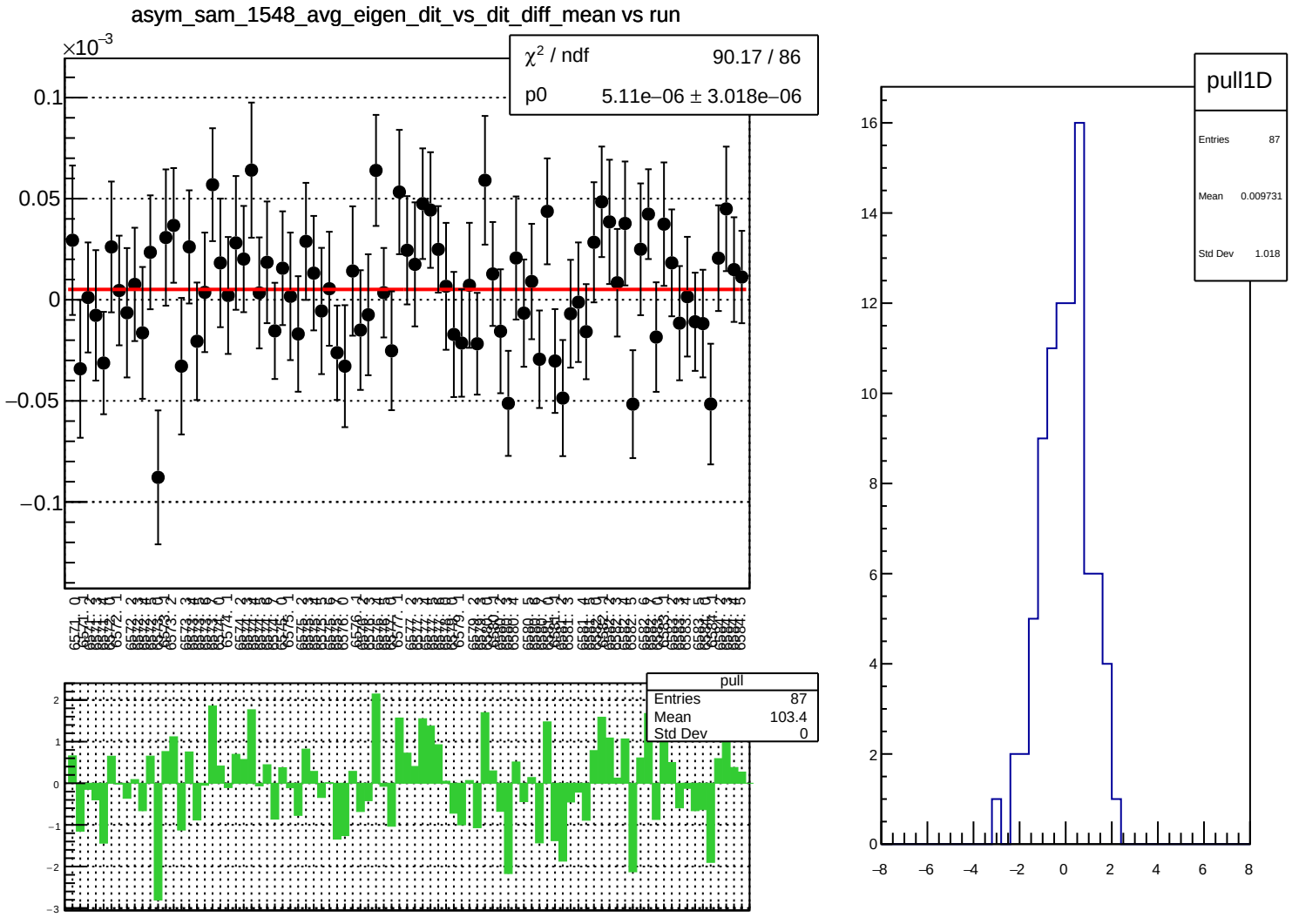

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.751e+05 / 86
p0 1.498e−11 ± 1.776e−14
0.05
0.04
0.03
0.02
0.01
0

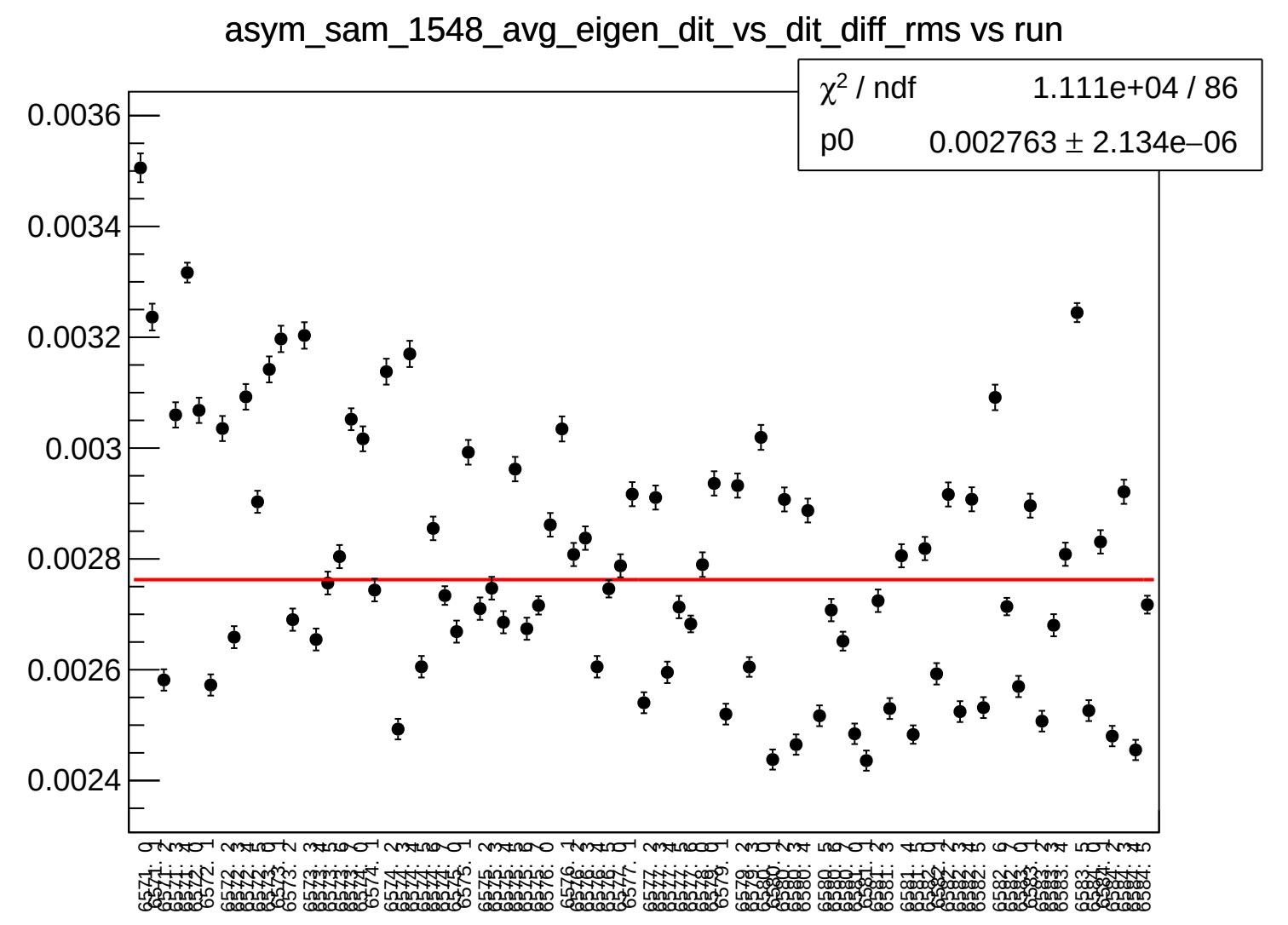

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.17 / 86
p0 −0.01433 ± 0.07751
pull
Entries 87
Mean −50.12
Std Dev 0
pull1D
Entries 87
Mean −0.05107
Std Dev 0.9997

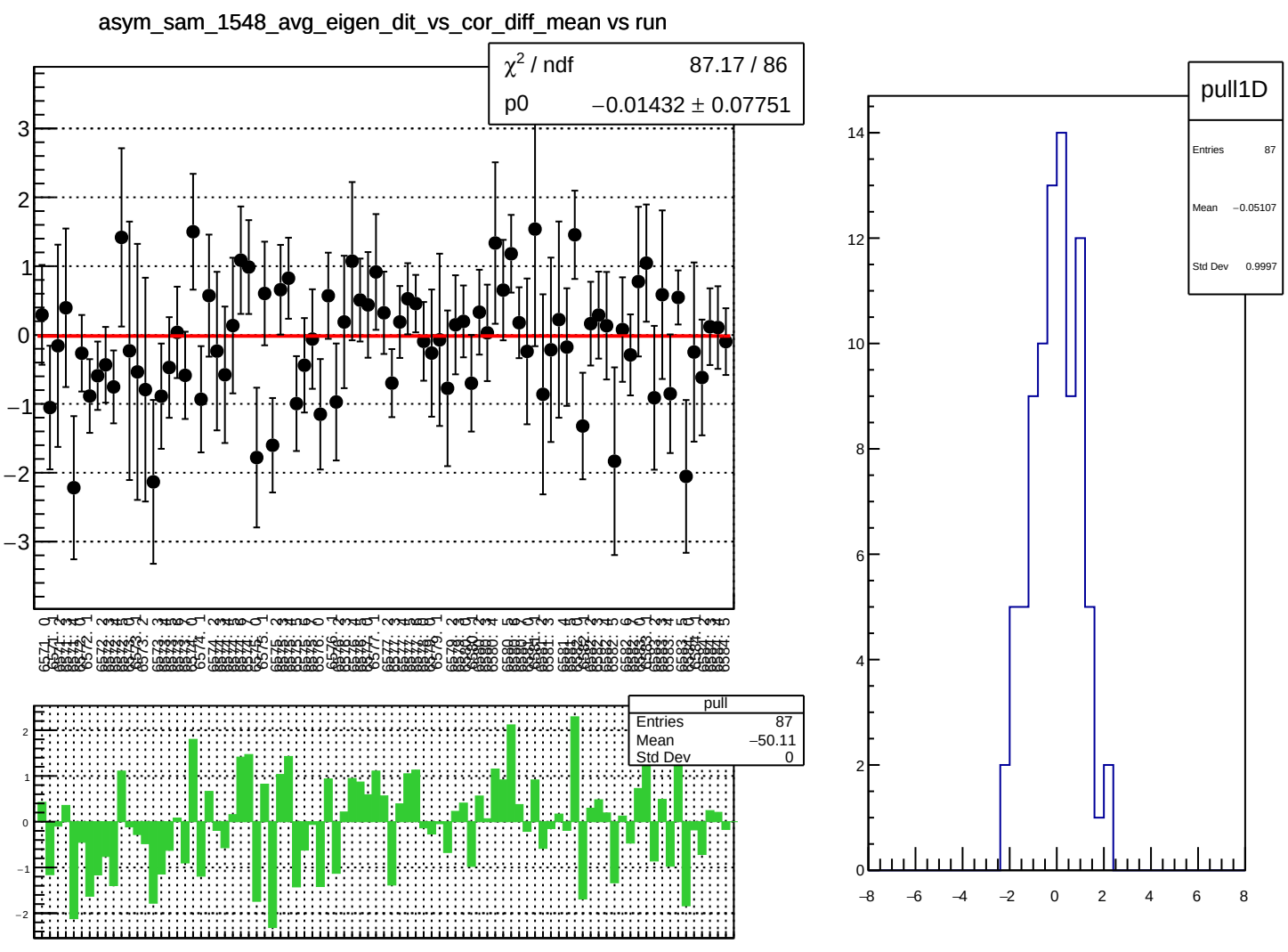

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.484e+05 / 86
p0 67.98 ± 0.05481
180
160
140
120
100
80
60
40

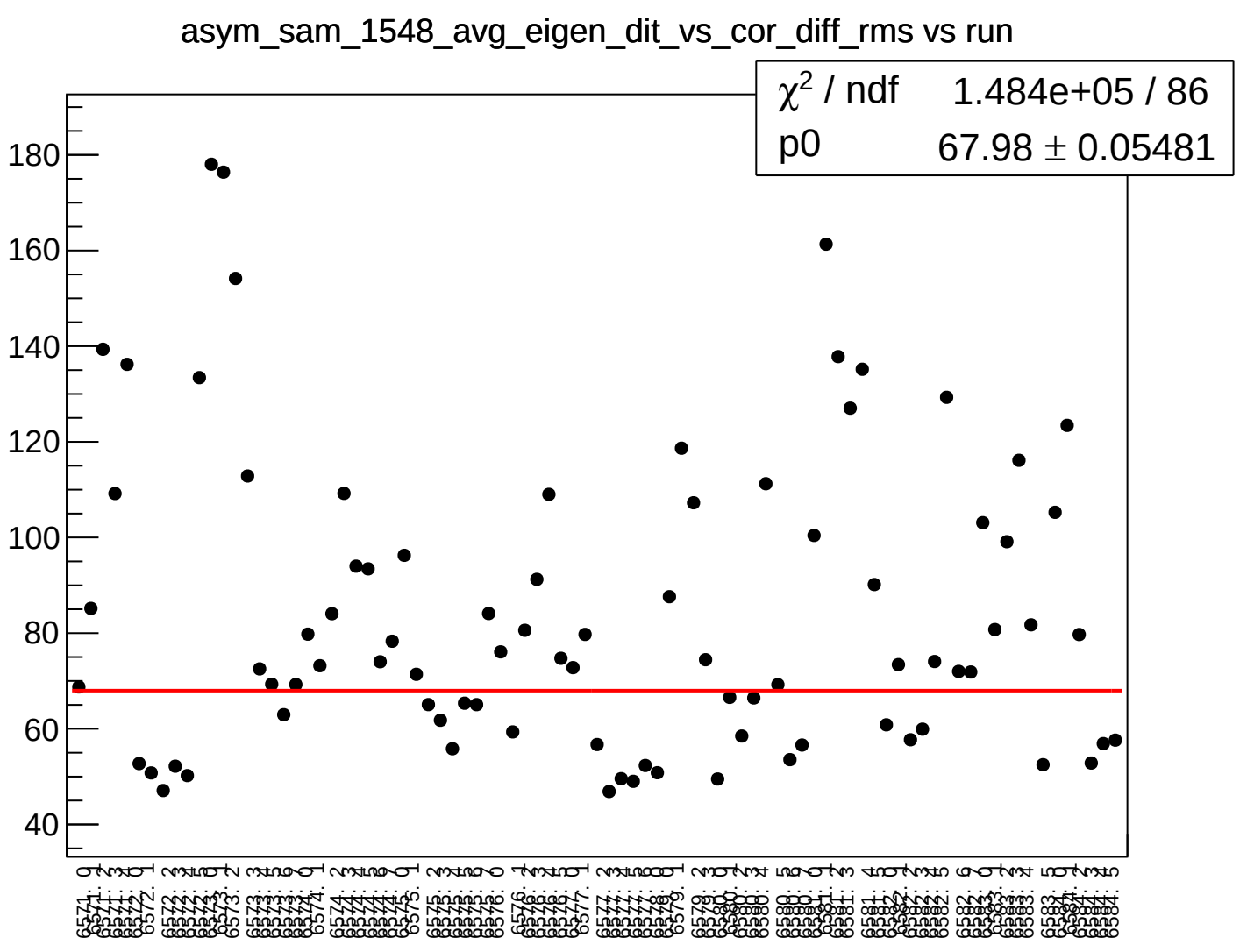

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.17 / 86
p0 −0.01433 ± 0.07751
pull
Entries 87
Mean −50.12
Std Dev 0
pull1D
Entries 87
Mean −0.05107
Std Dev 0.9997

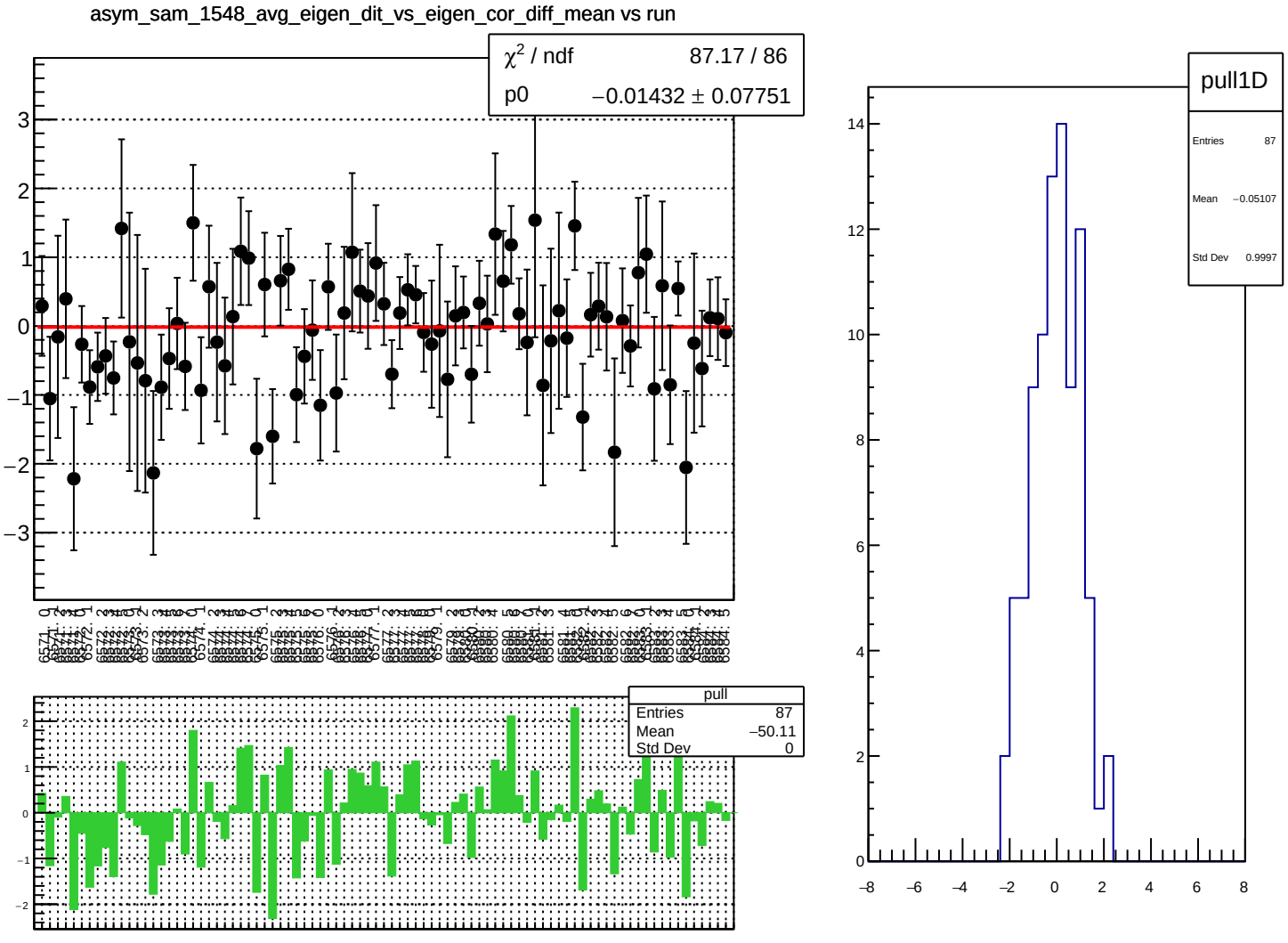

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.484e+05 / 86
p0 67.98 ± 0.05481
180
160
140
120
100
80
60
40

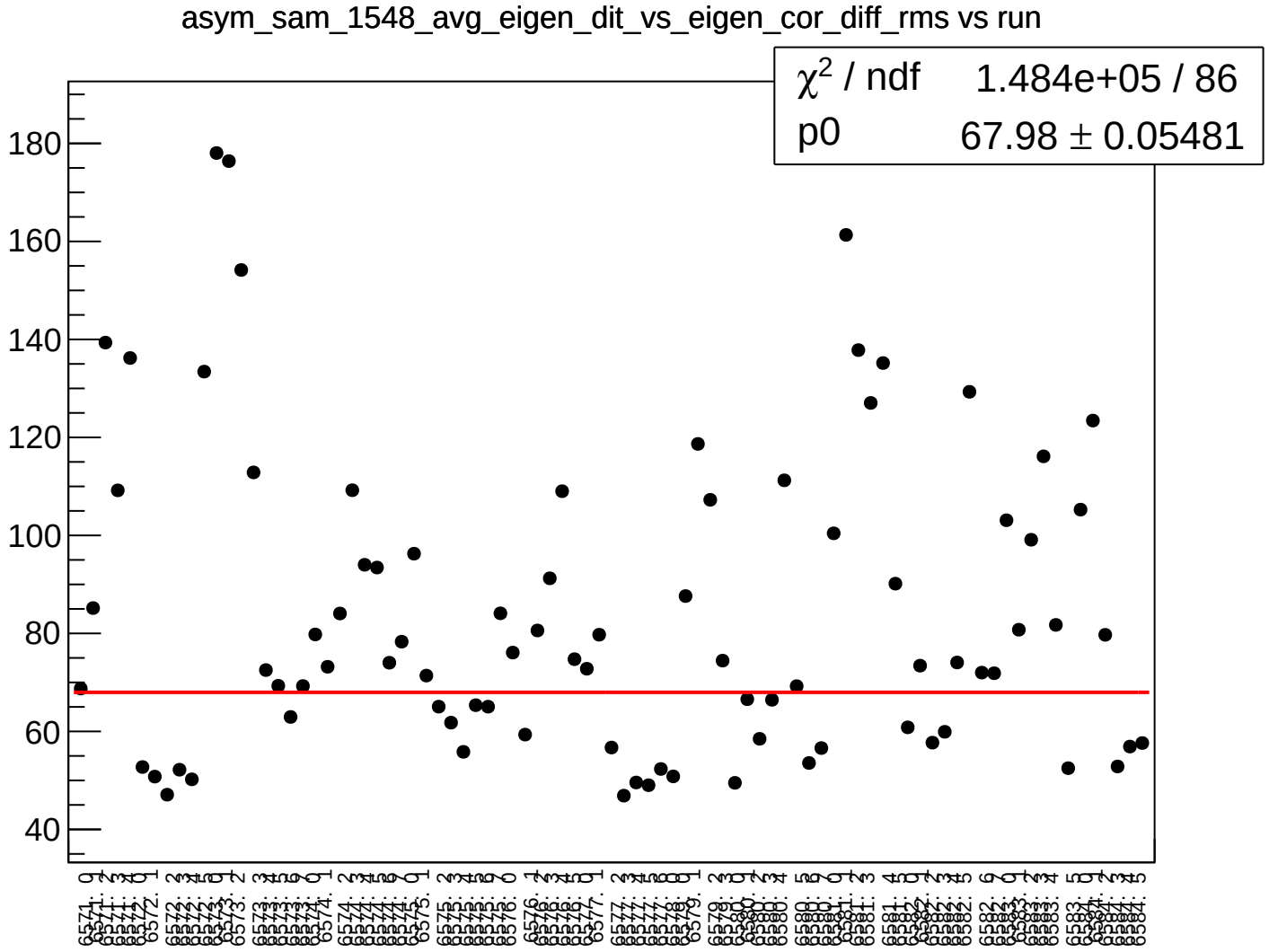

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.17 / 86
p0 5.11e−06 ± 3.018e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 103.4
Std Dev 0
pull1D
Entries 87
Mean 0.009731
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

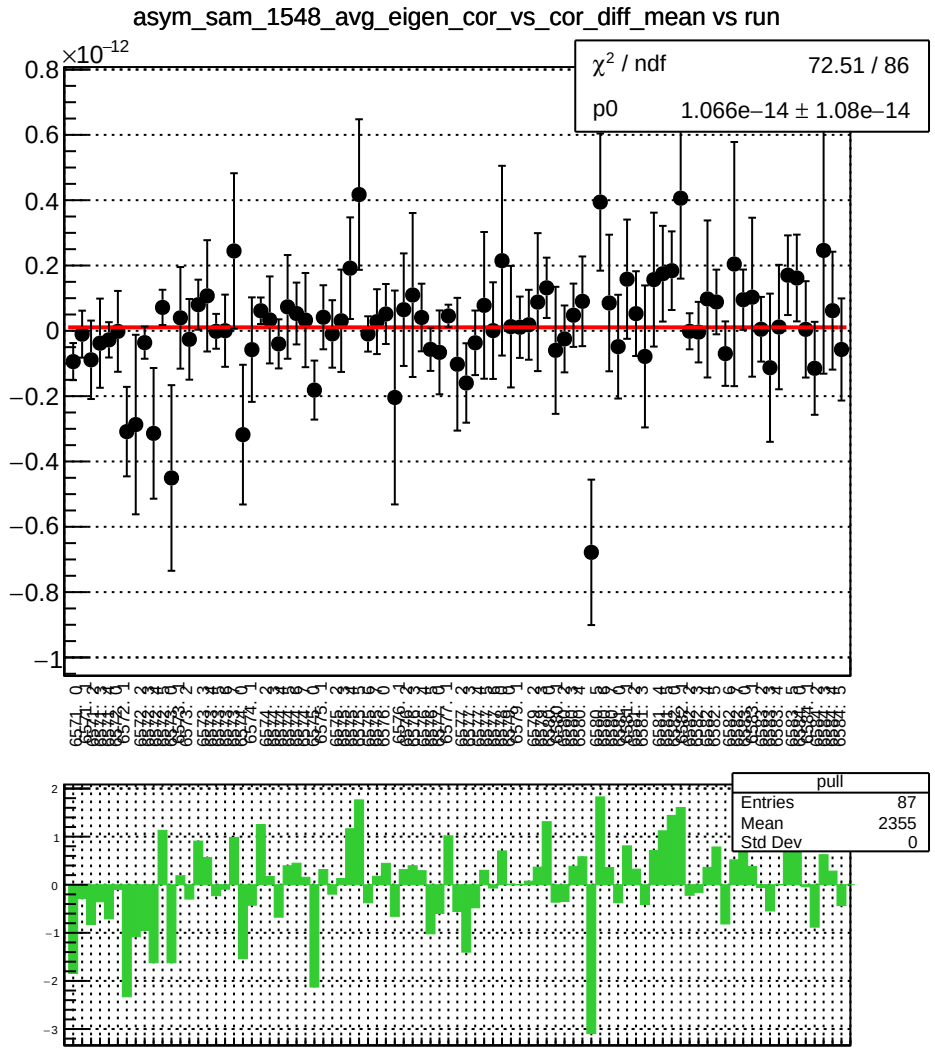

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.111e+04 / 86
p0 0.002763 ± 2.134e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

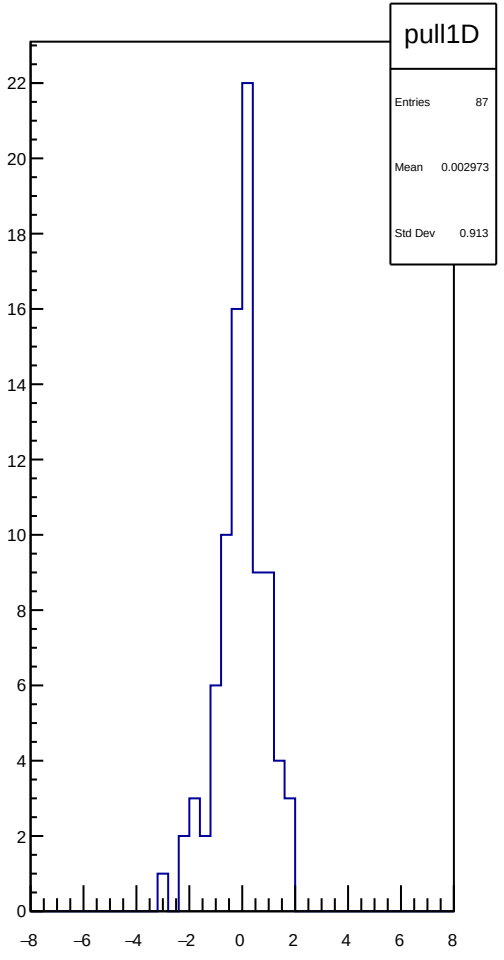

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.17 / 86
p0 −0.01432 ± 0.07751
pull
Entries 87
Mean −50.11
Std Dev 0
pull1D
Entries 87
Mean −0.05107
Std Dev 0.9997

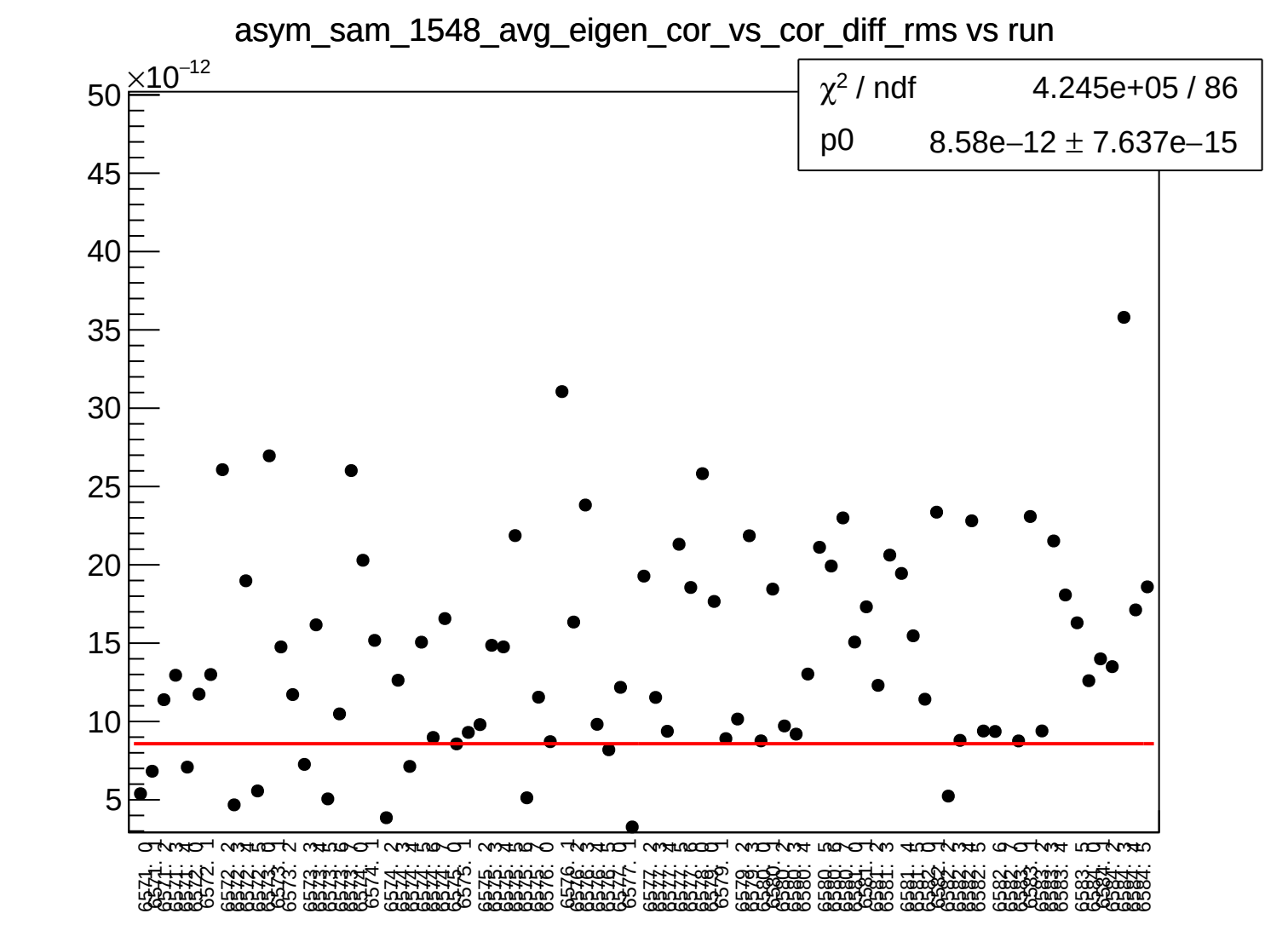

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.484e+05 / 86
p0 67.98 ± 0.05481
180
160
140
120
100
80
60
40

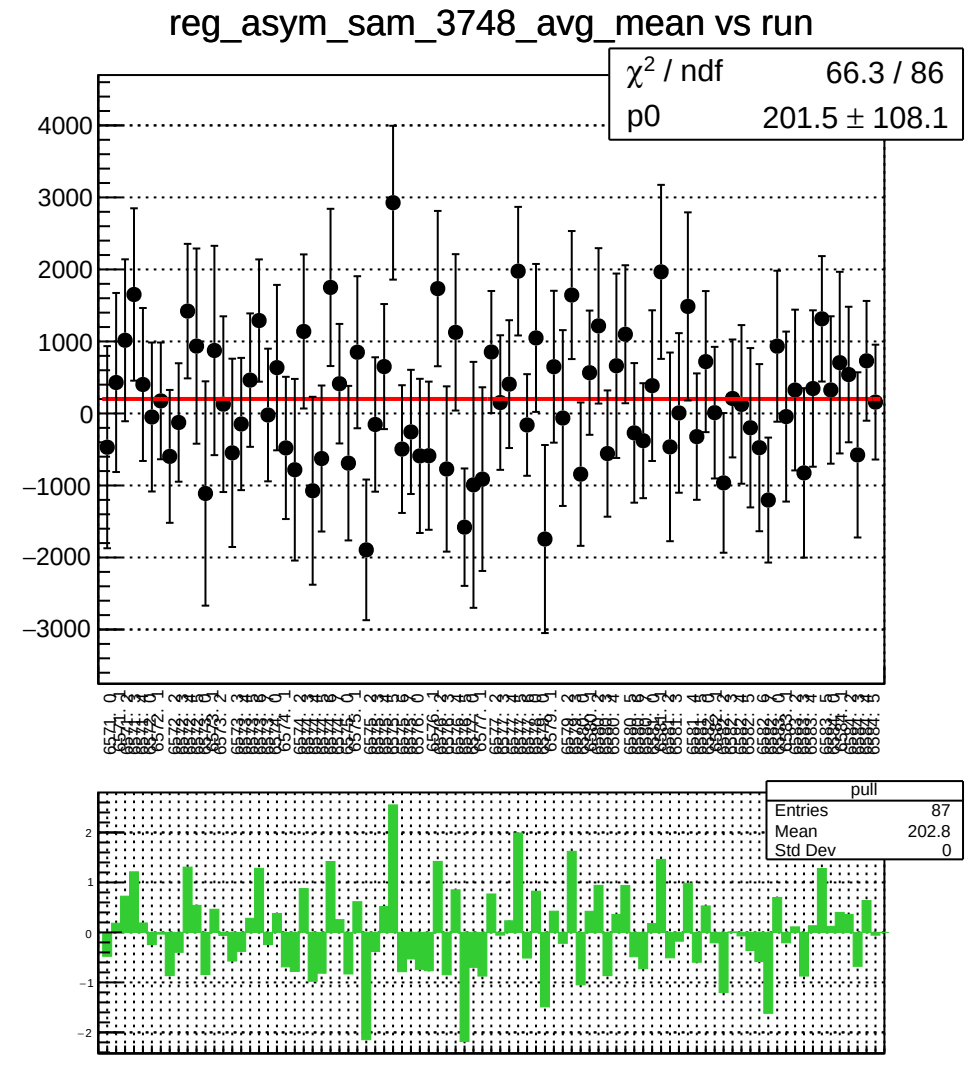

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.17 / 86
p0 −0.01432 ± 0.07751
pull
Entries 87
Mean −50.11
Std Dev 0
pull1D
Entries 87
Mean −0.05107
Std Dev 0.9997

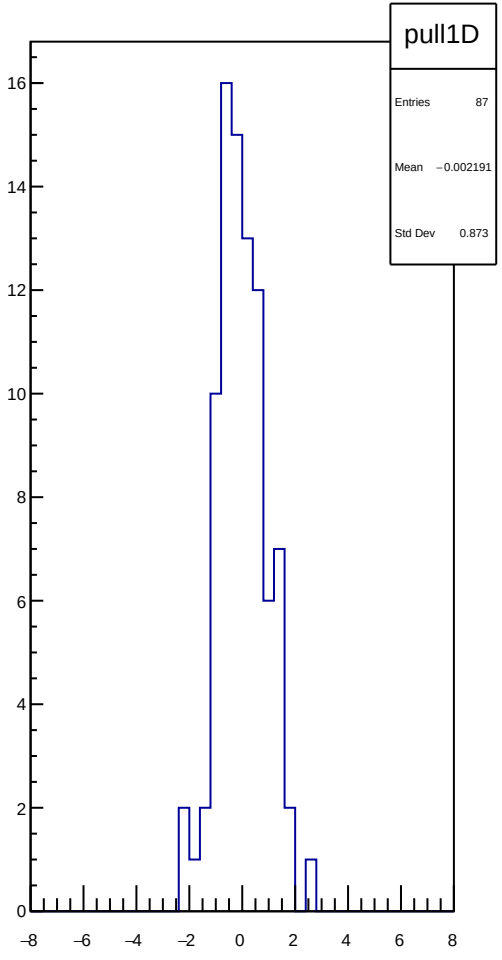

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.484e+05 / 86
p0 67.98 ± 0.05481
180
160
140
120
100
80
60
40

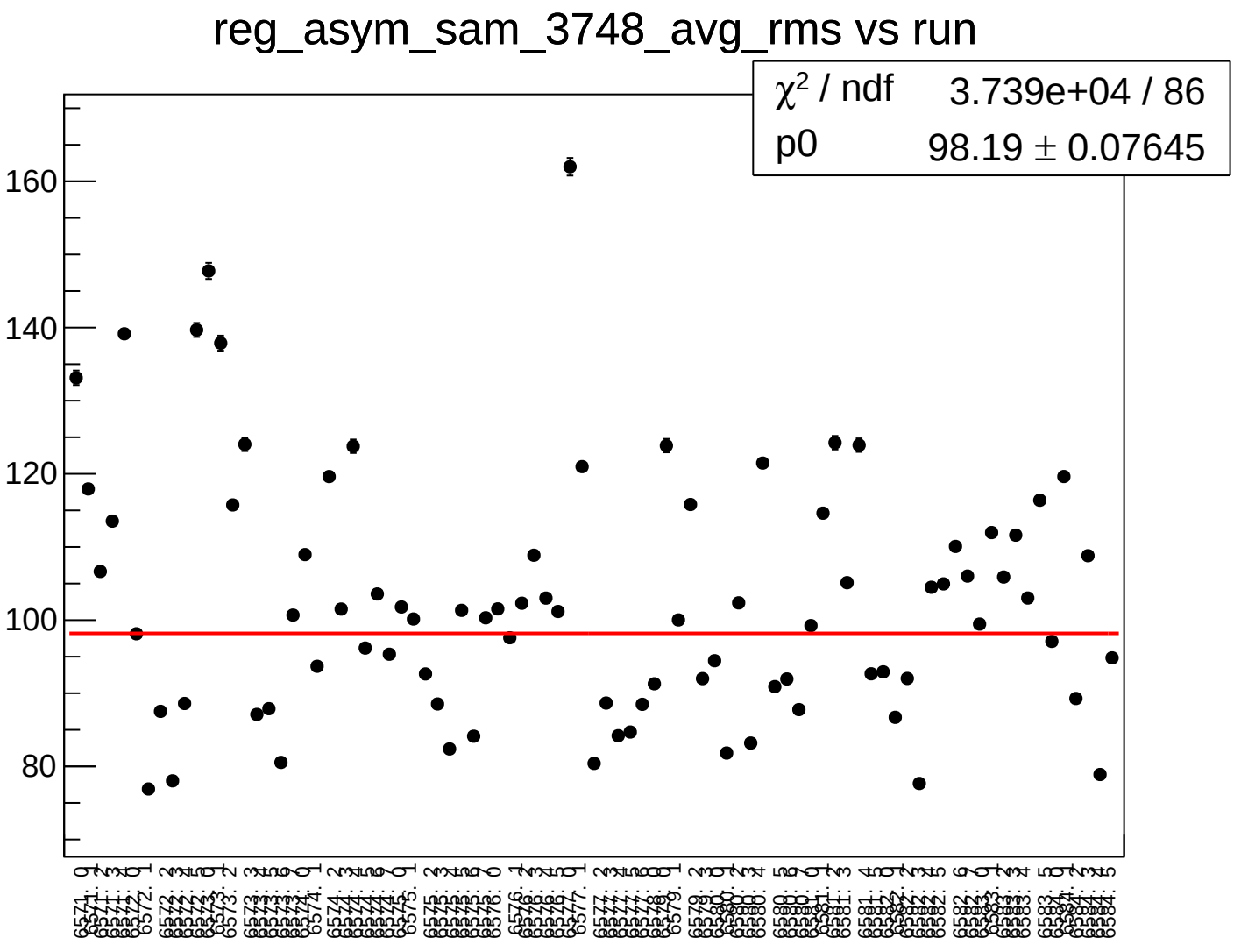

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.51 / 86
p0 1.066e−14 ± 1.08e−14
pull
Entries 87
Mean 2355
Std Dev 0

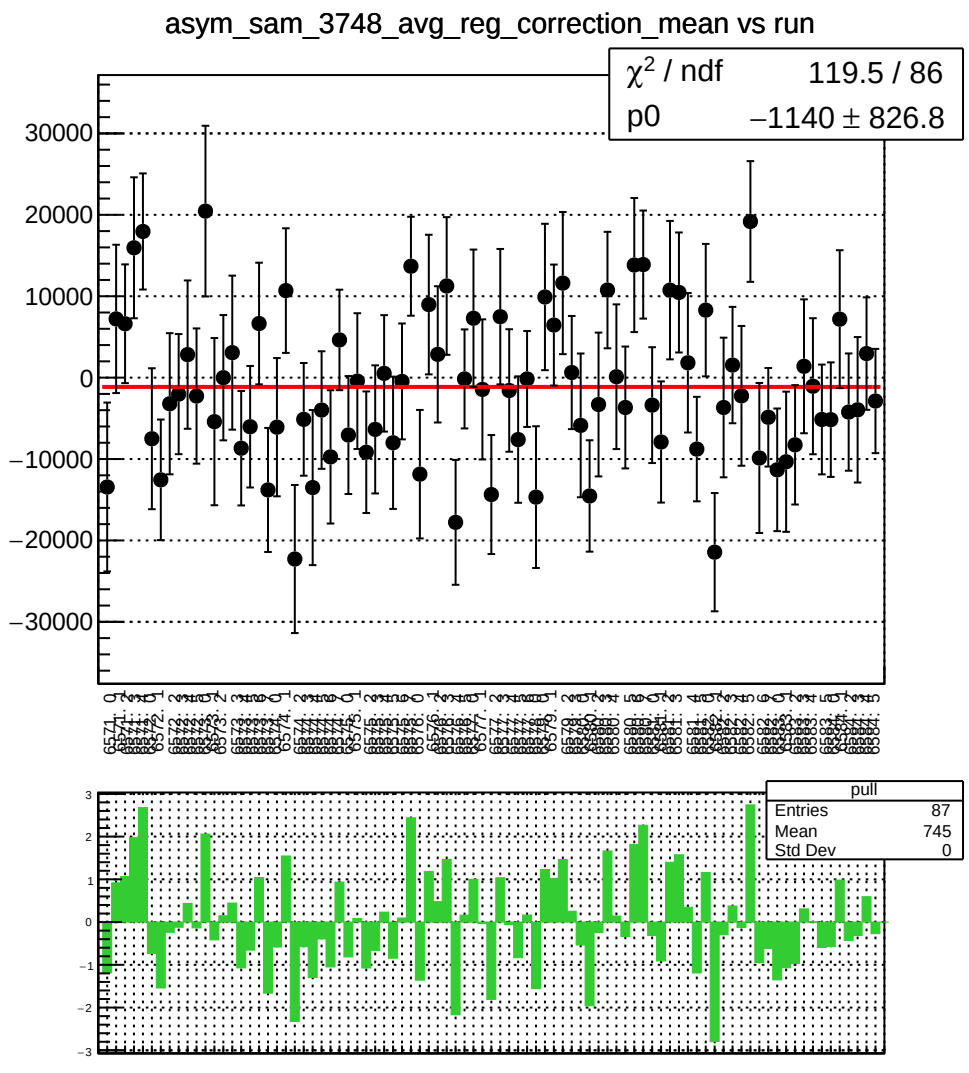

pull1D
Entries 87
Mean 0.002973
Std Dev 0.913

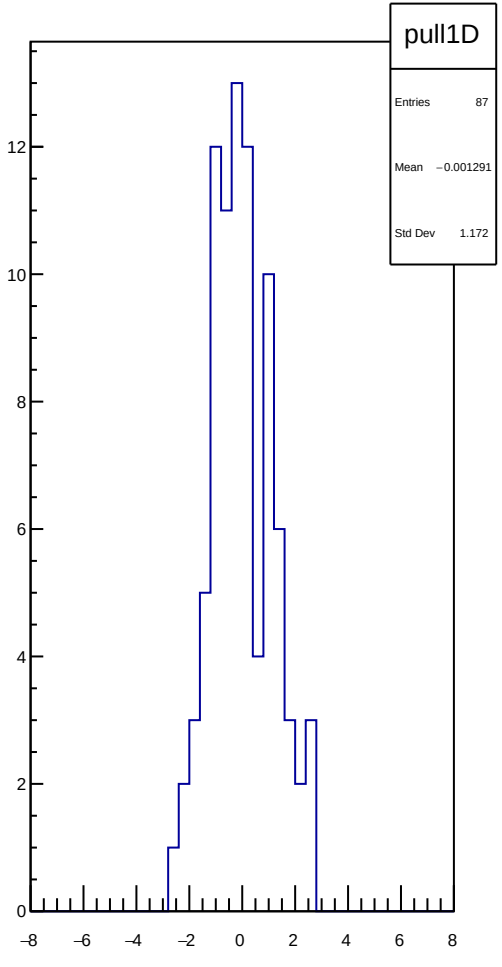

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.245e+05 / 86
p0 8.58e−12 ± 7.637e−15
50
45
40
35
30
25
20
15
10
5

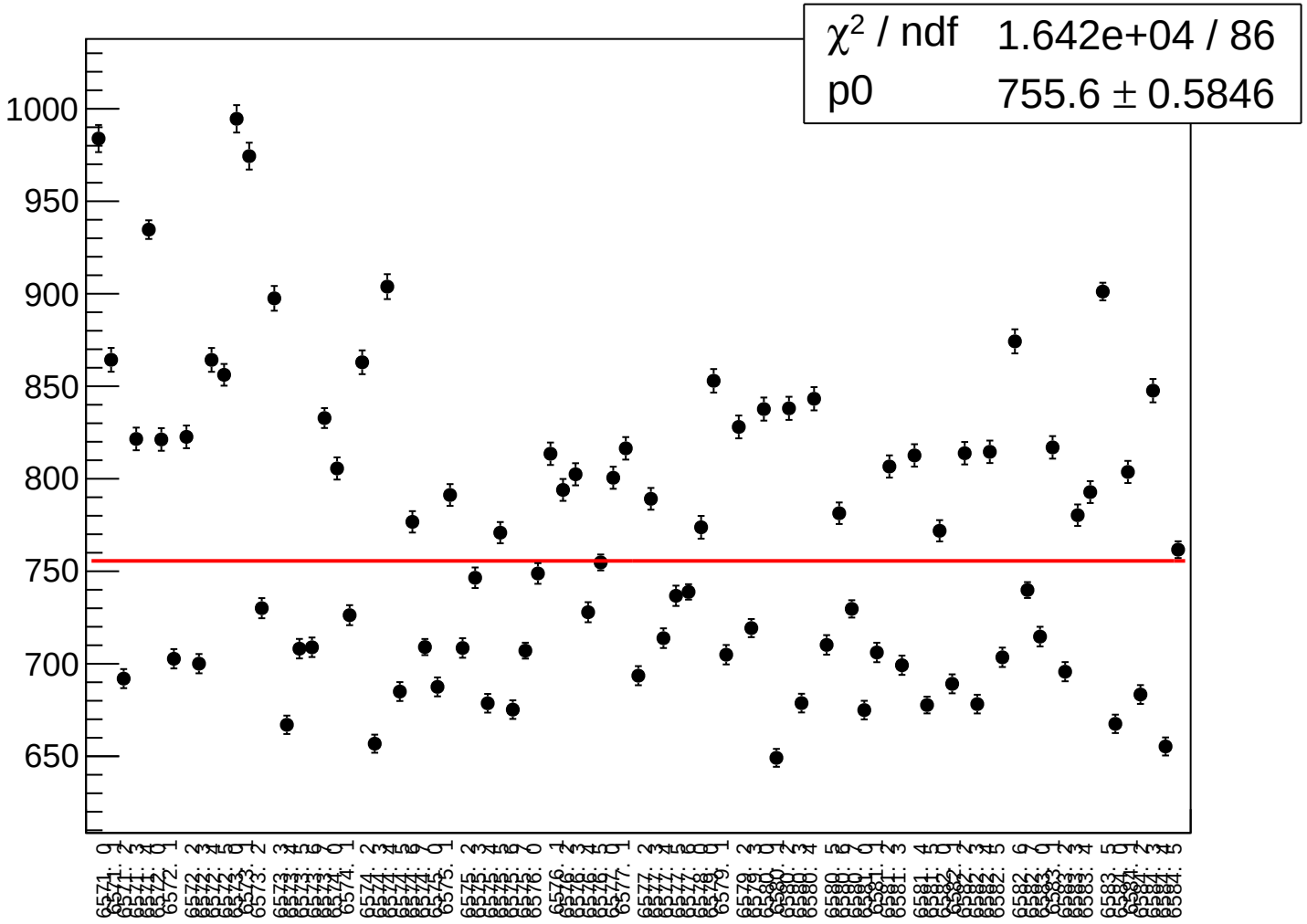

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 66.3 / 86
p0 201.5 ± 108.1
pull
Entries 87
Mean 202.8
Std Dev 0

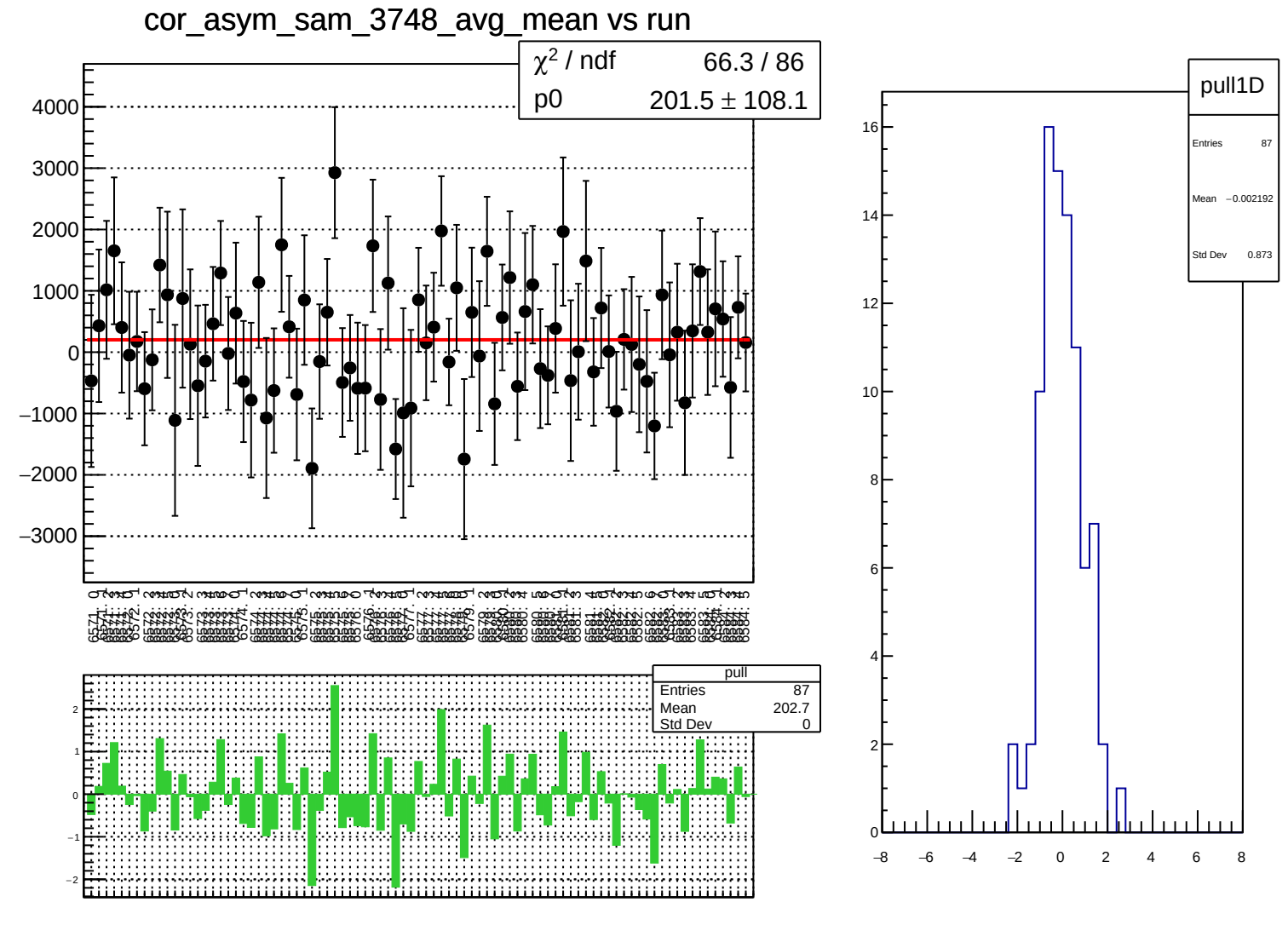

pull1D
Entries 87
Mean −0.002191
Std Dev 0.873

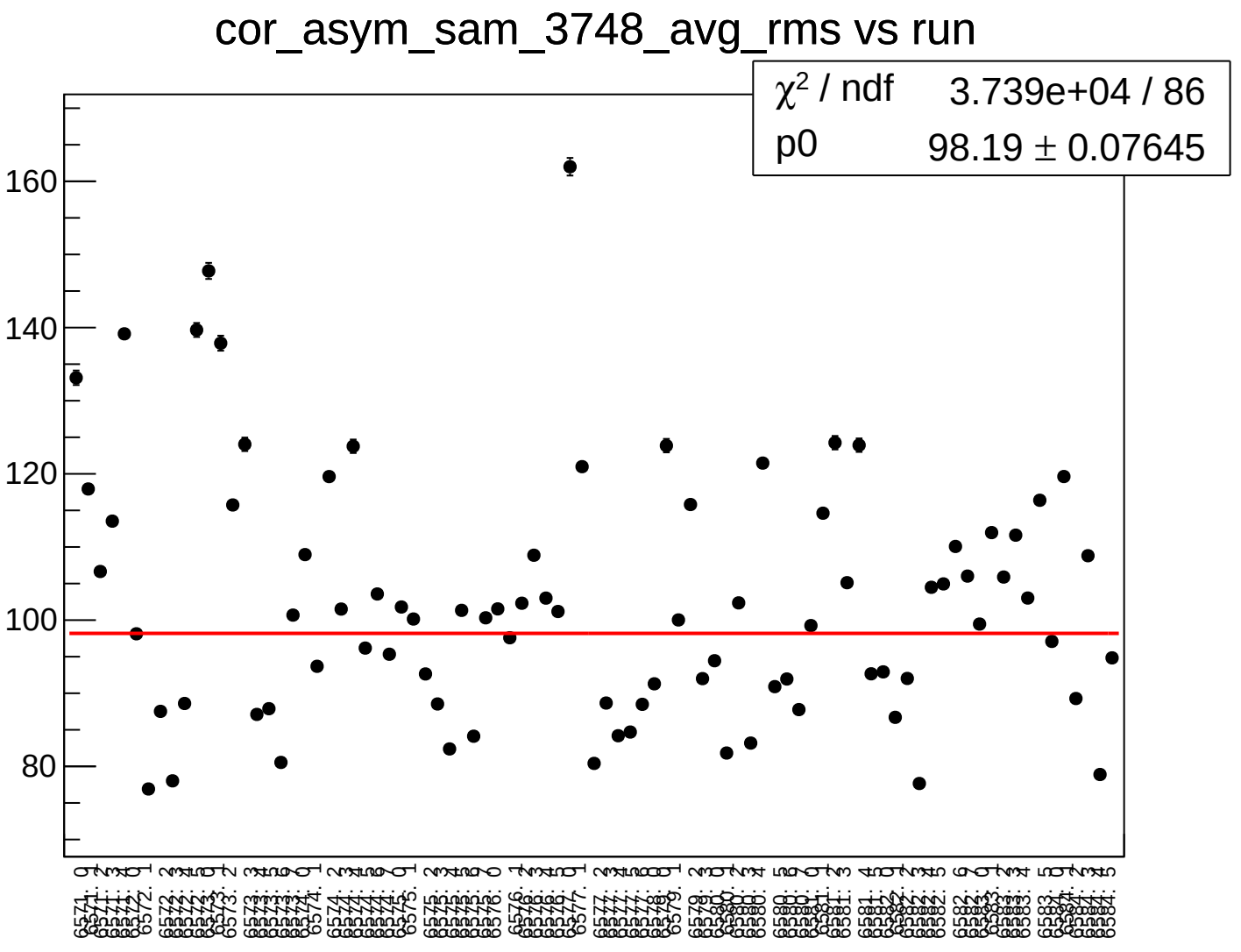

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 3.739e+04 / 86
p0 98.19 ± 0.07645
160
140
120
100
80

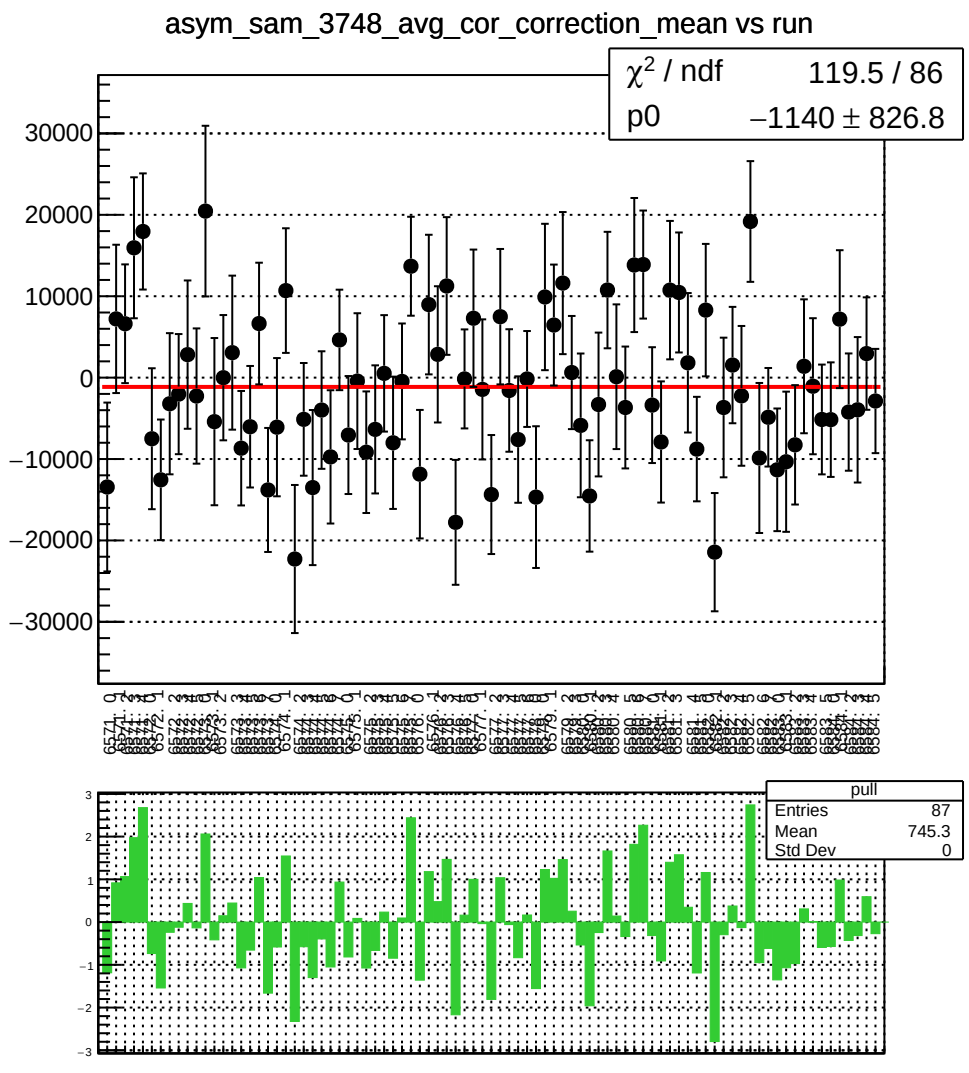

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 119.5 / 86
p0 −1140 ± 826.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 745
Std Dev 0
3
2
1
0
−1
−2
−3

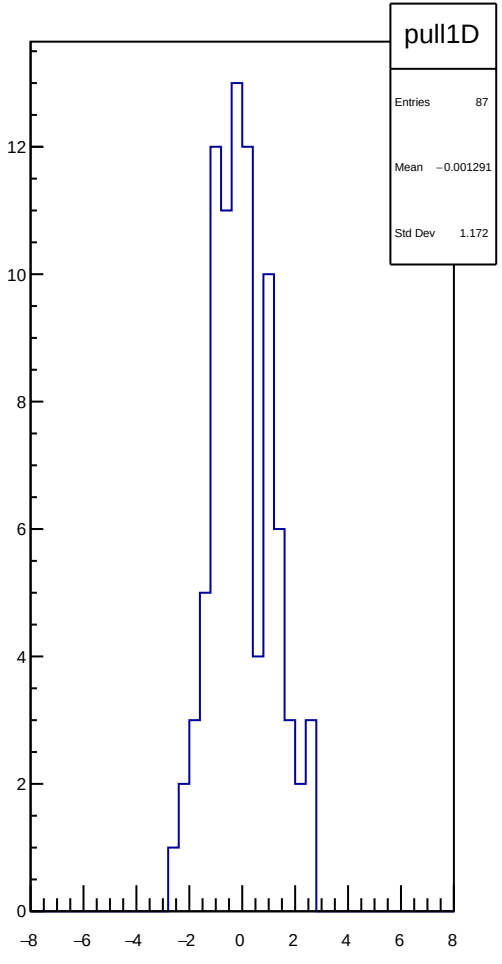

pull1D
Entries 87
Mean −0.001291
Std Dev 1.172
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

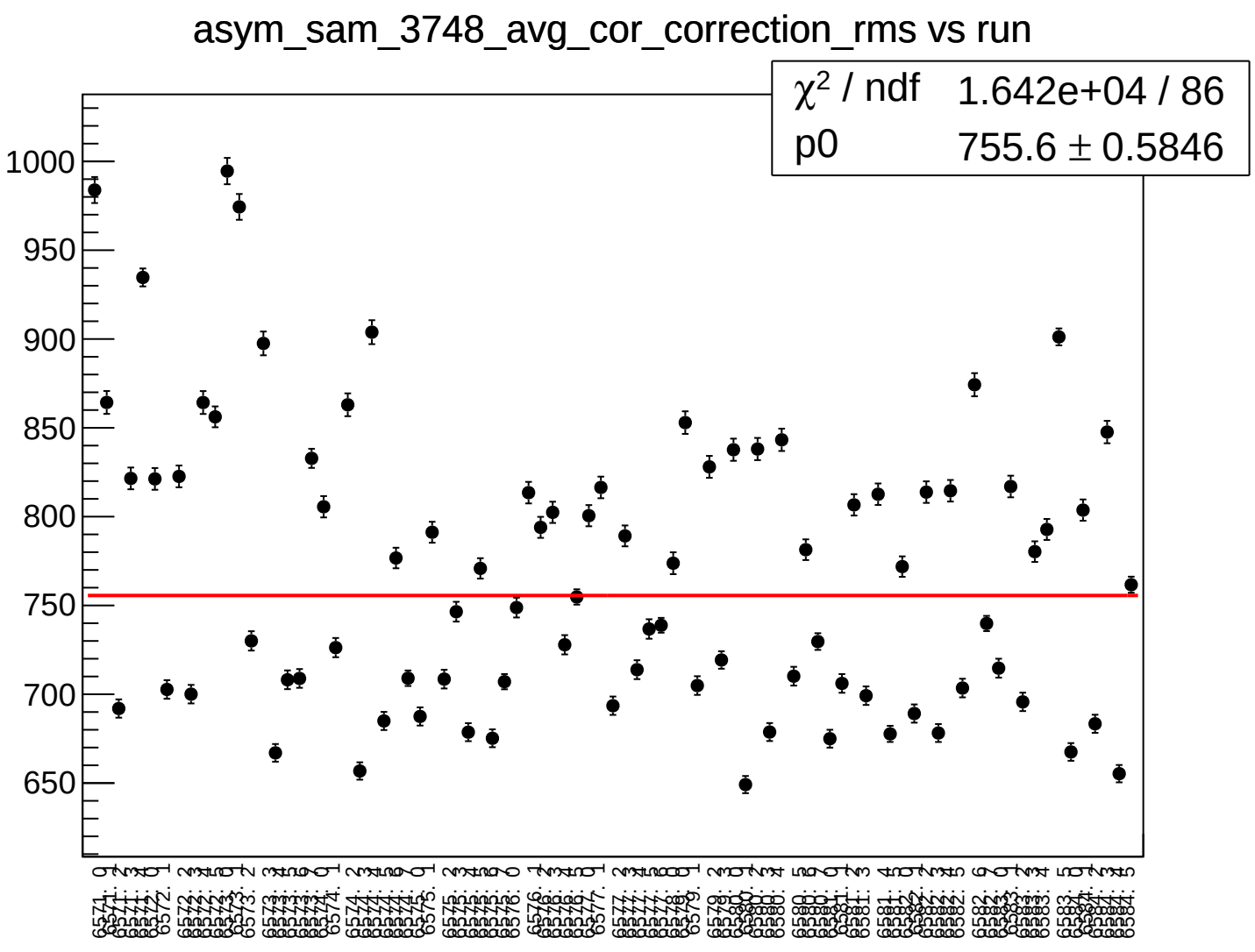

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.642e+04 / 86
p0 755.6 ± 0.5846
1000
950
900
850
800
750
700
650

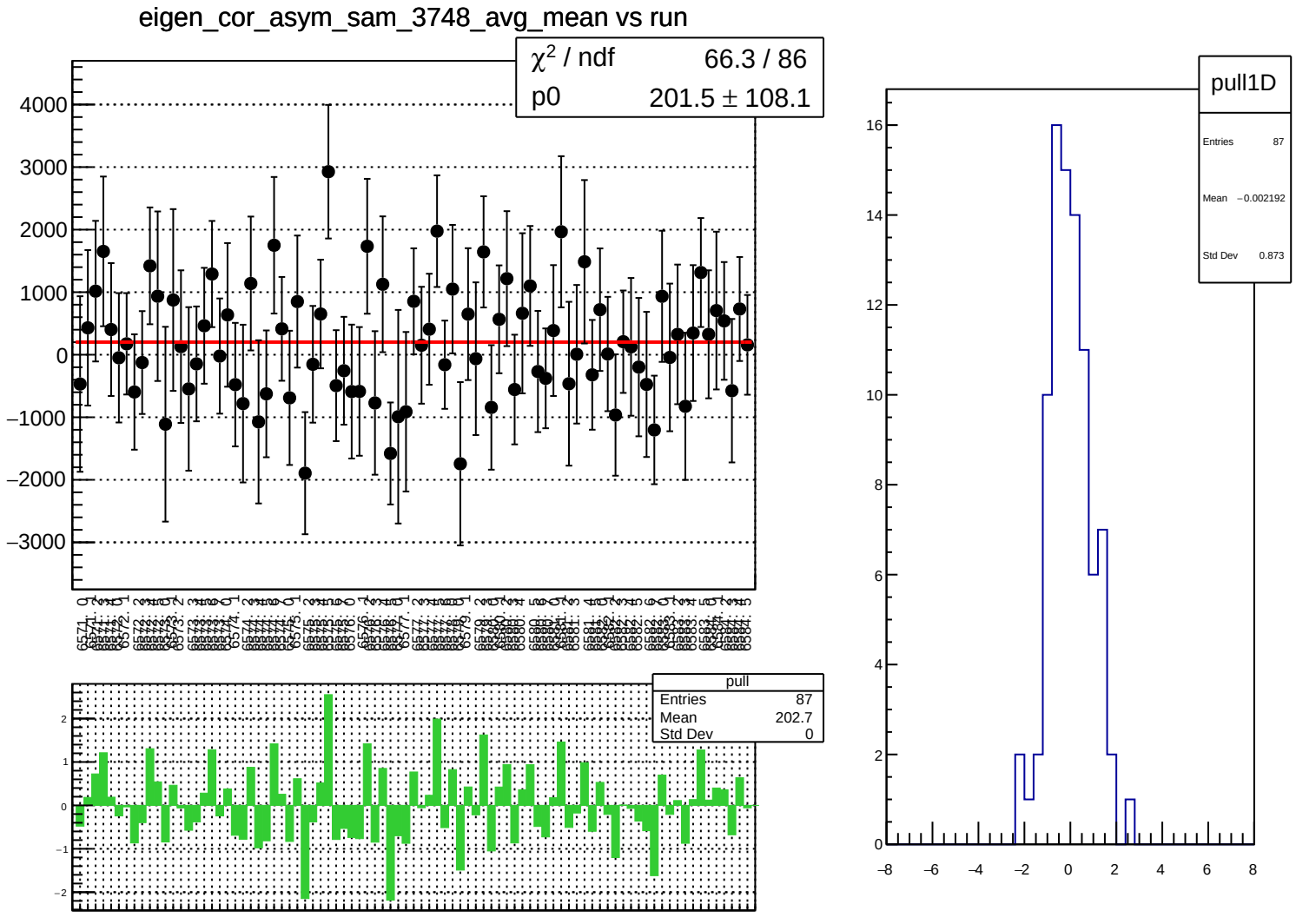

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 66.3 / 86
p0 201.5 ± 108.1
pull
Entries 87
Mean 202.7
Std Dev 0
pull1D
Entries 87
Mean −0.002192
Std Dev 0.873

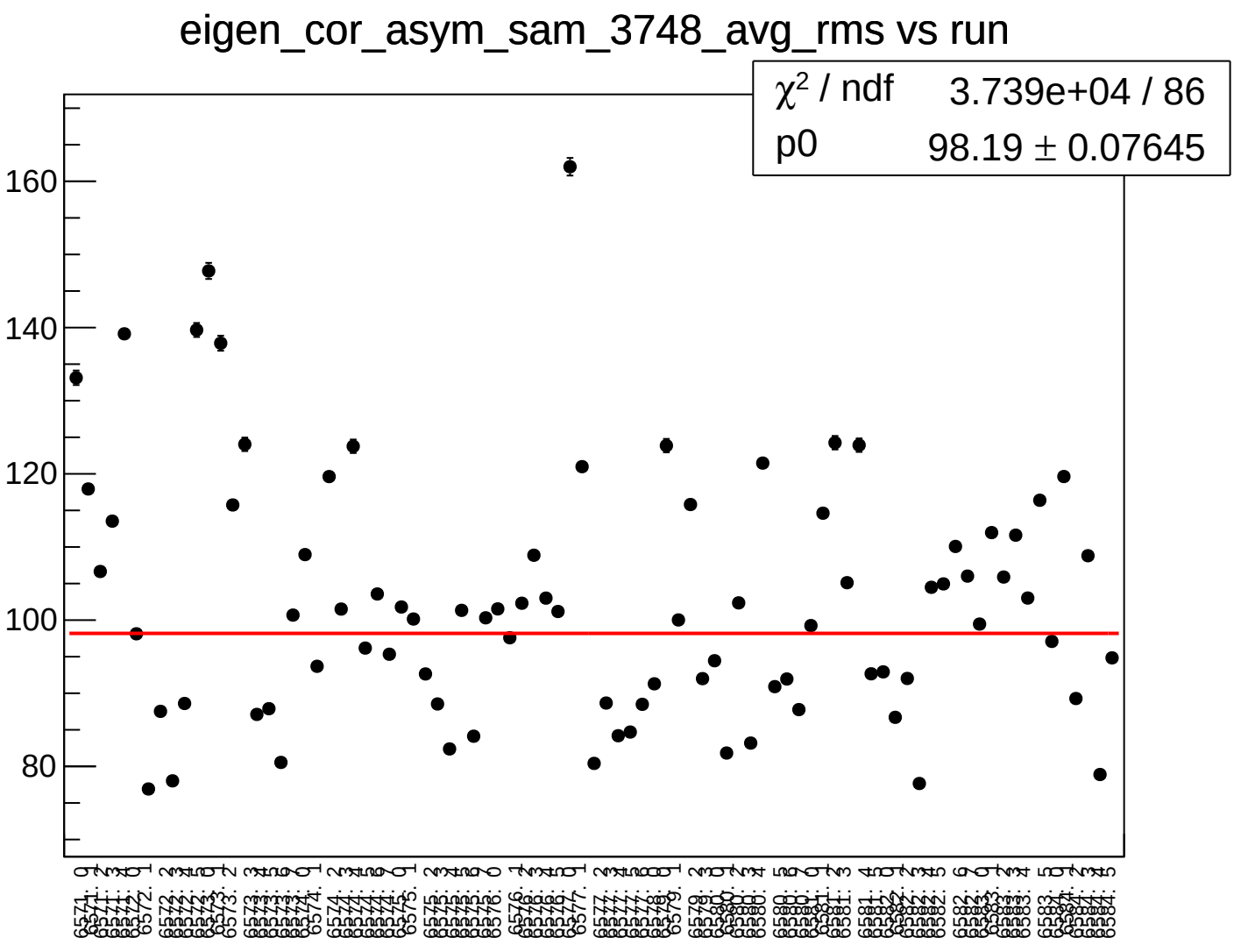

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.739e+04 / 86
p0 98.19 ± 0.07645
160
140
120
100
80

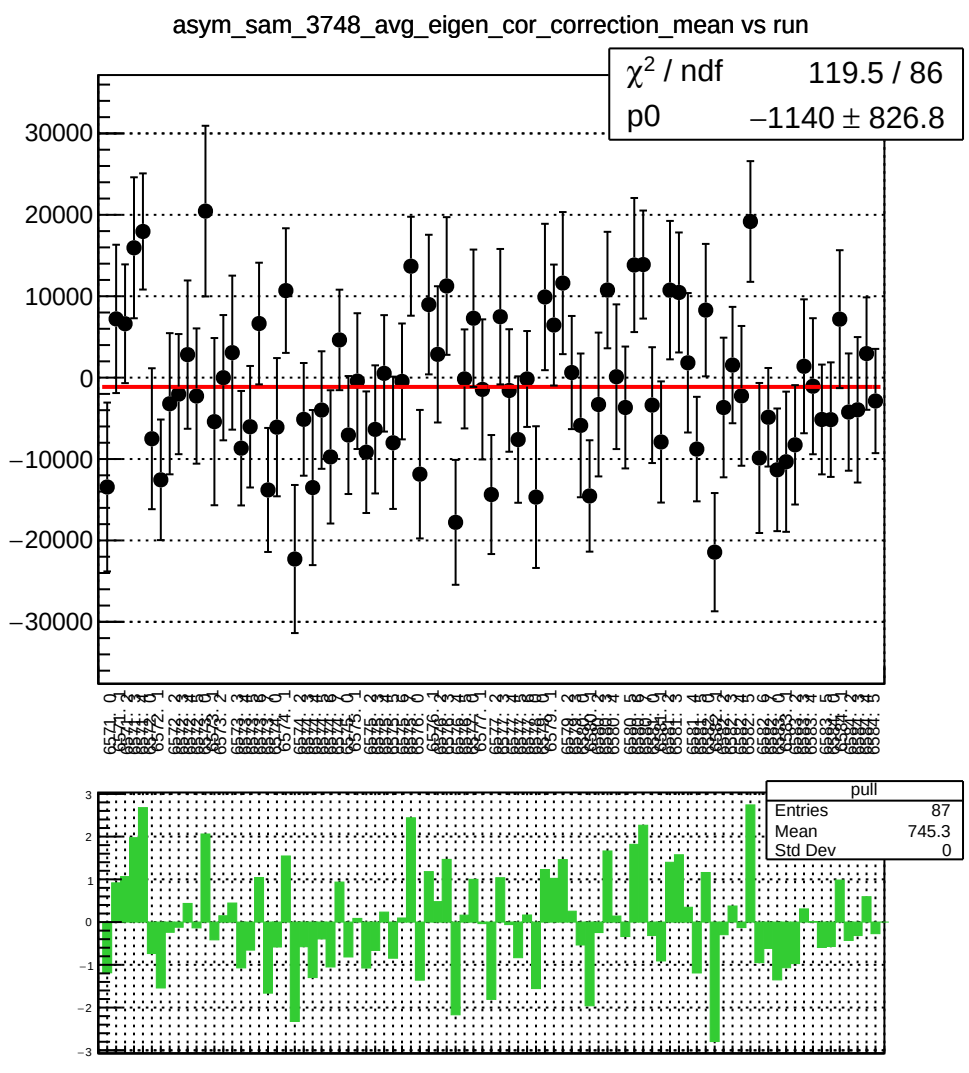

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 119.5 / 86
p0 −1140 ± 826.8
pull
Entries 87
Mean 745.3
Std Dev 0

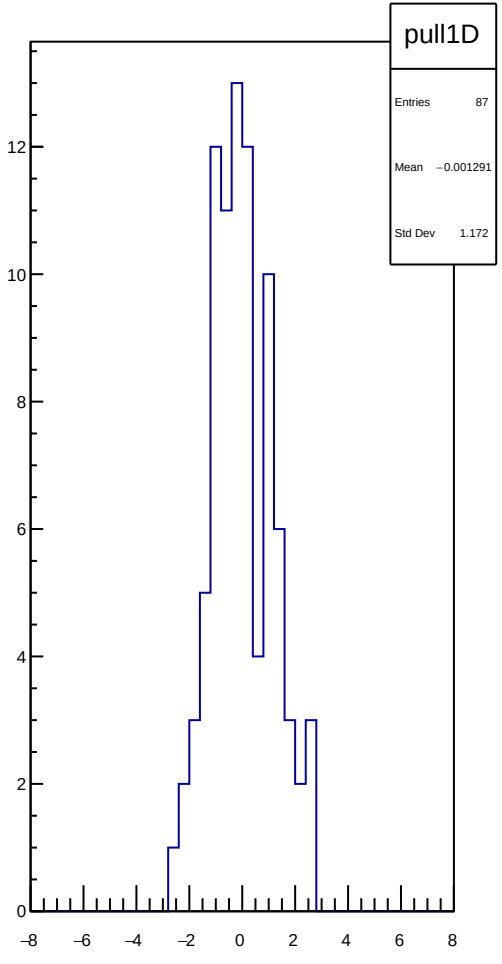

pull1D
Entries 87
Mean −0.001291
Std Dev 1.172

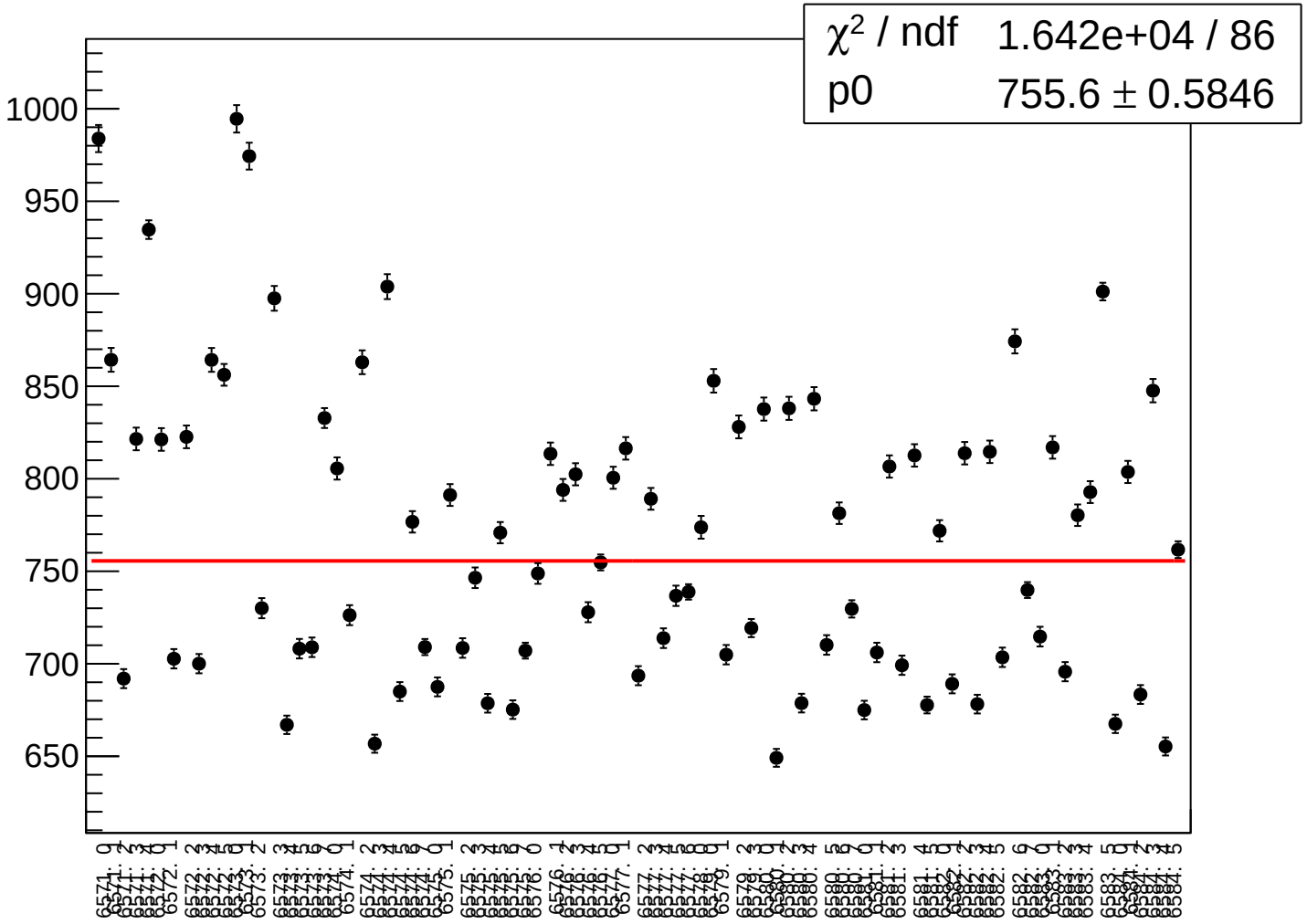

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.642e+04 / 86
p0 755.6 ± 0.5846
1000
950
900
850
800
750
700
650

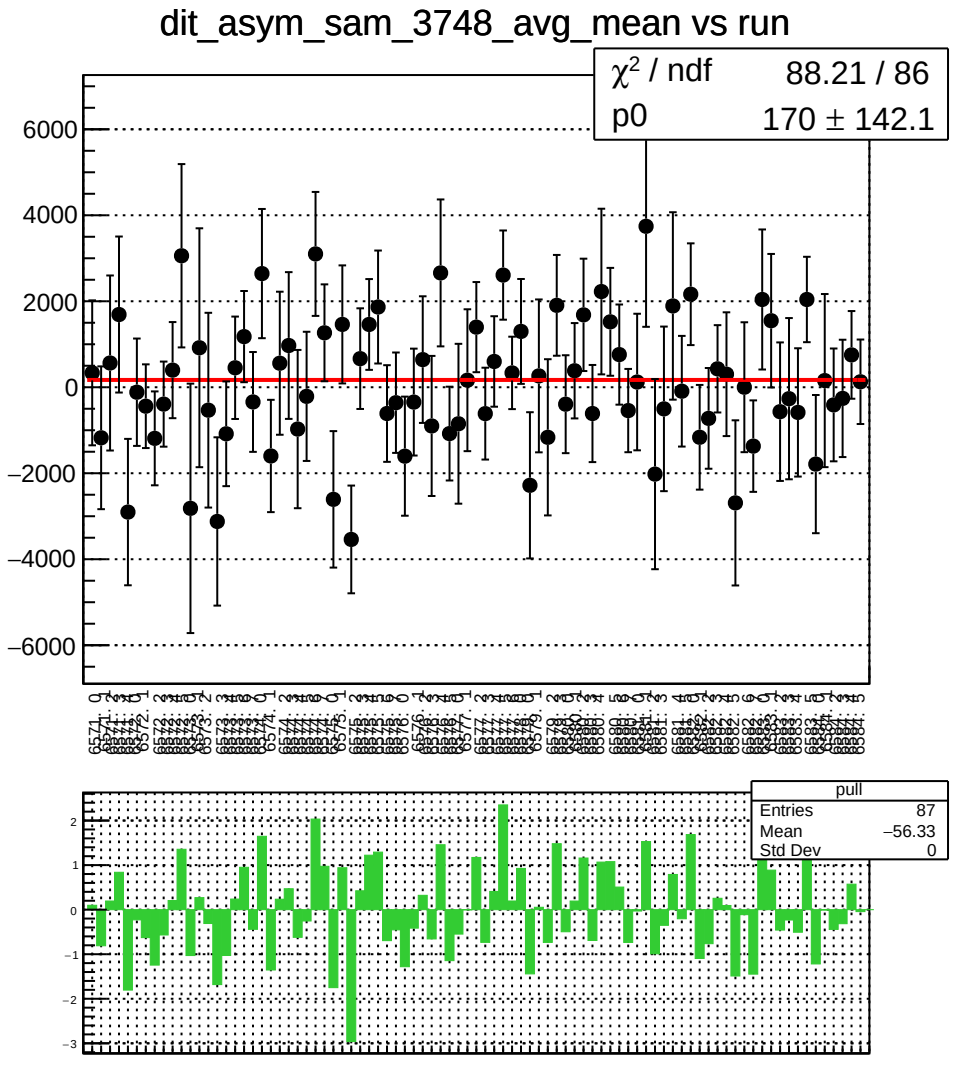

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 66.3 / 86
p0 201.5 ± 108.1
pull
Entries 87
Mean 202.7
Std Dev 0
pull1D
Entries 87
Mean −0.002192
Std Dev 0.873

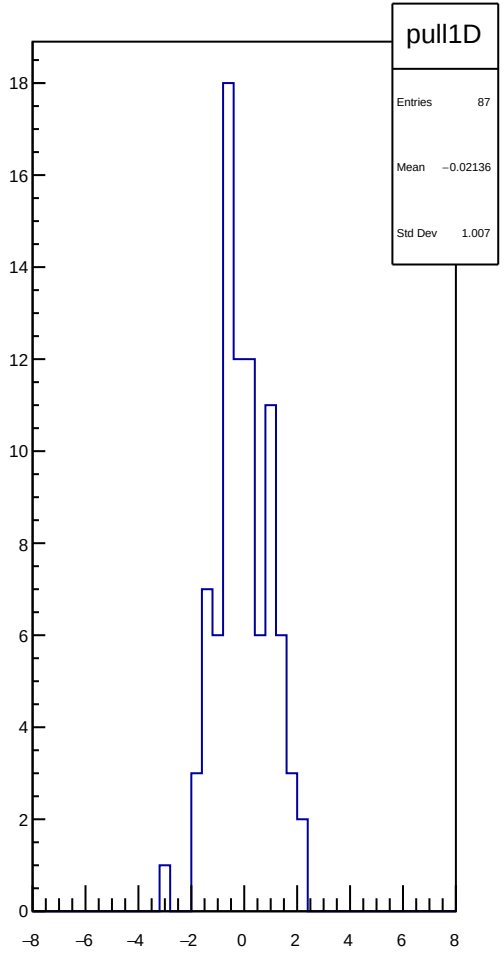

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.739e+04 / 86
p0 98.19 ± 0.07645
160
140
120
100
80

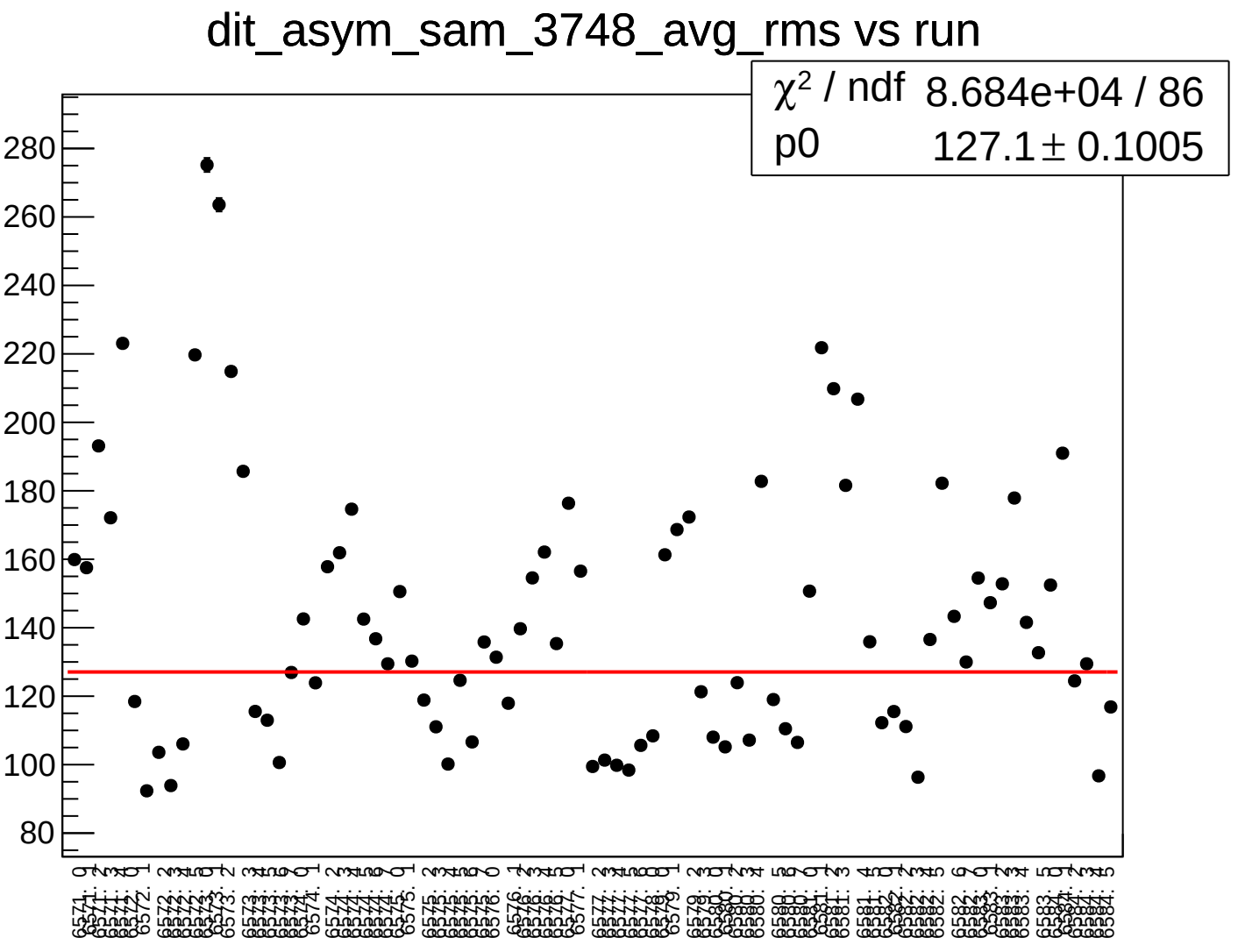

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 119.5 / 86
p0 −1140 ± 826.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 745.3
Std Dev 0
3
2
1
0
−1
−2
−3

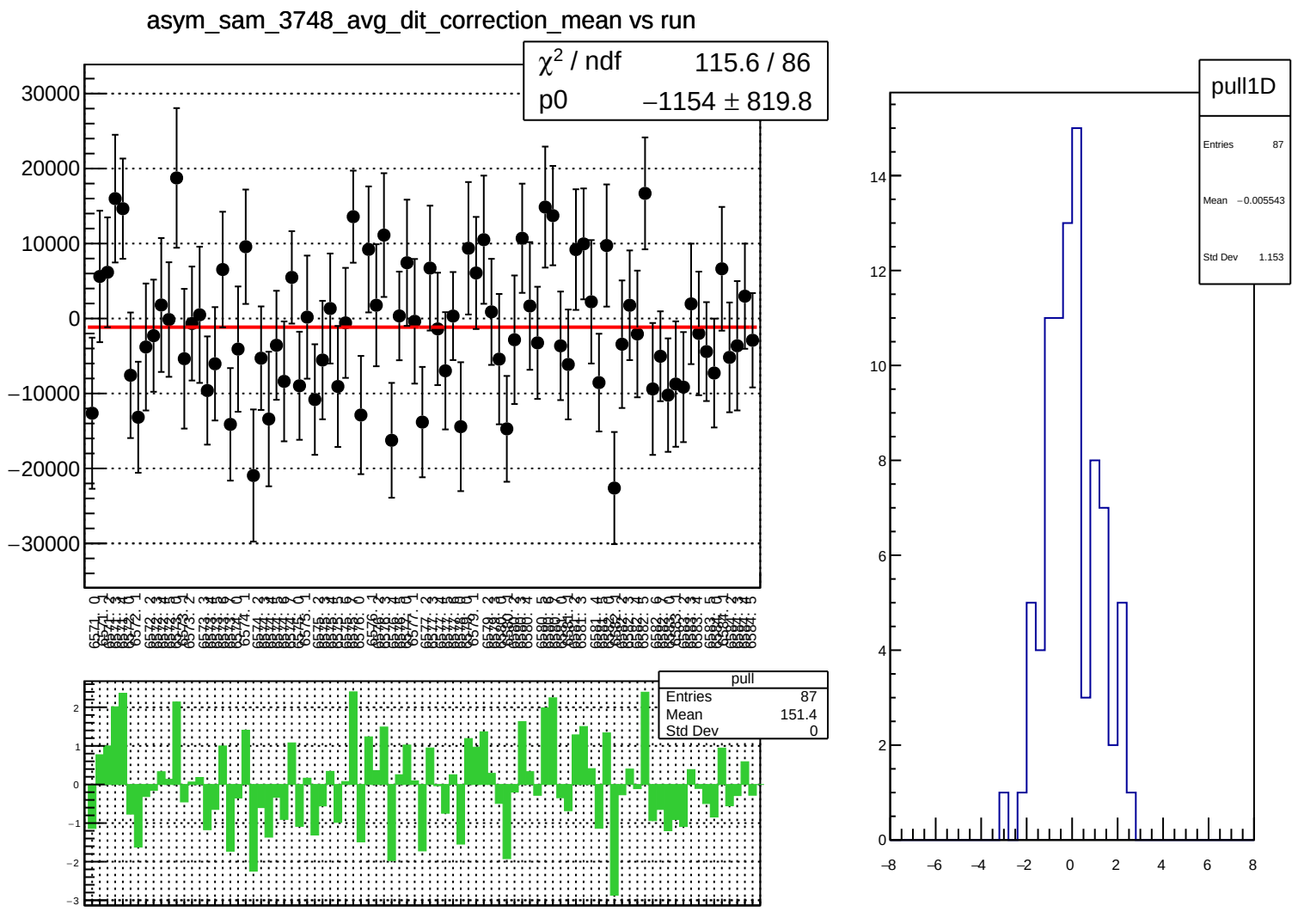

pull1D
Entries 87
Mean −0.001291
Std Dev 1.172
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

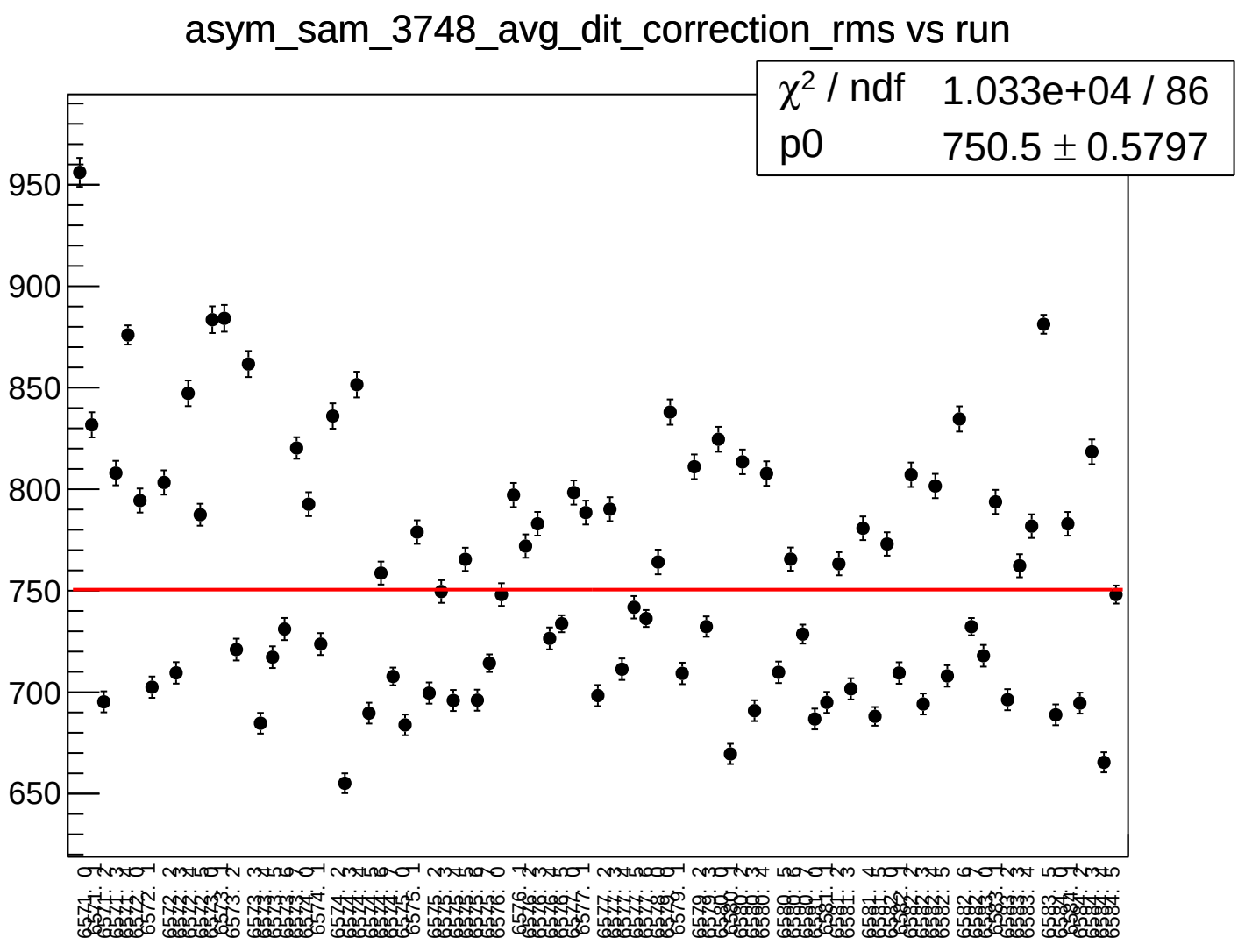

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.642e+04 / 86
p0 755.6 ± 0.5846
1000
950
900
850
800
750
700
650

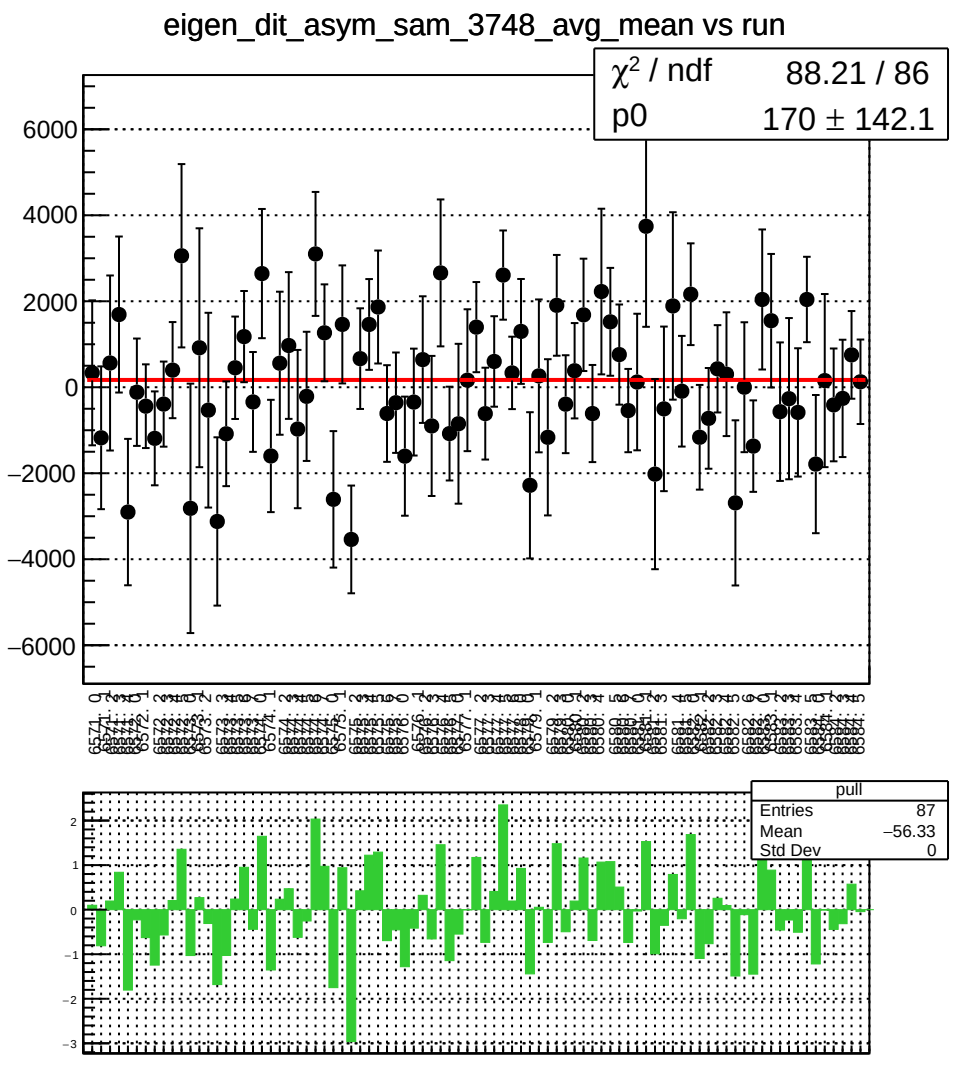

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 88.21 / 86
p0 170 ± 142.1
pull
Entries 87
Mean −56.33
Std Dev 0

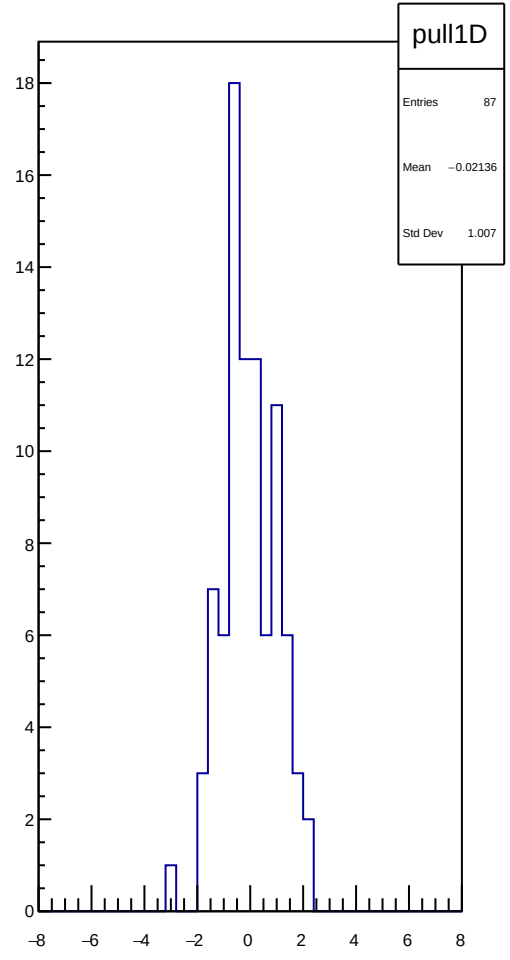

pull1D
Entries 87
Mean −0.02136
Std Dev 1.007

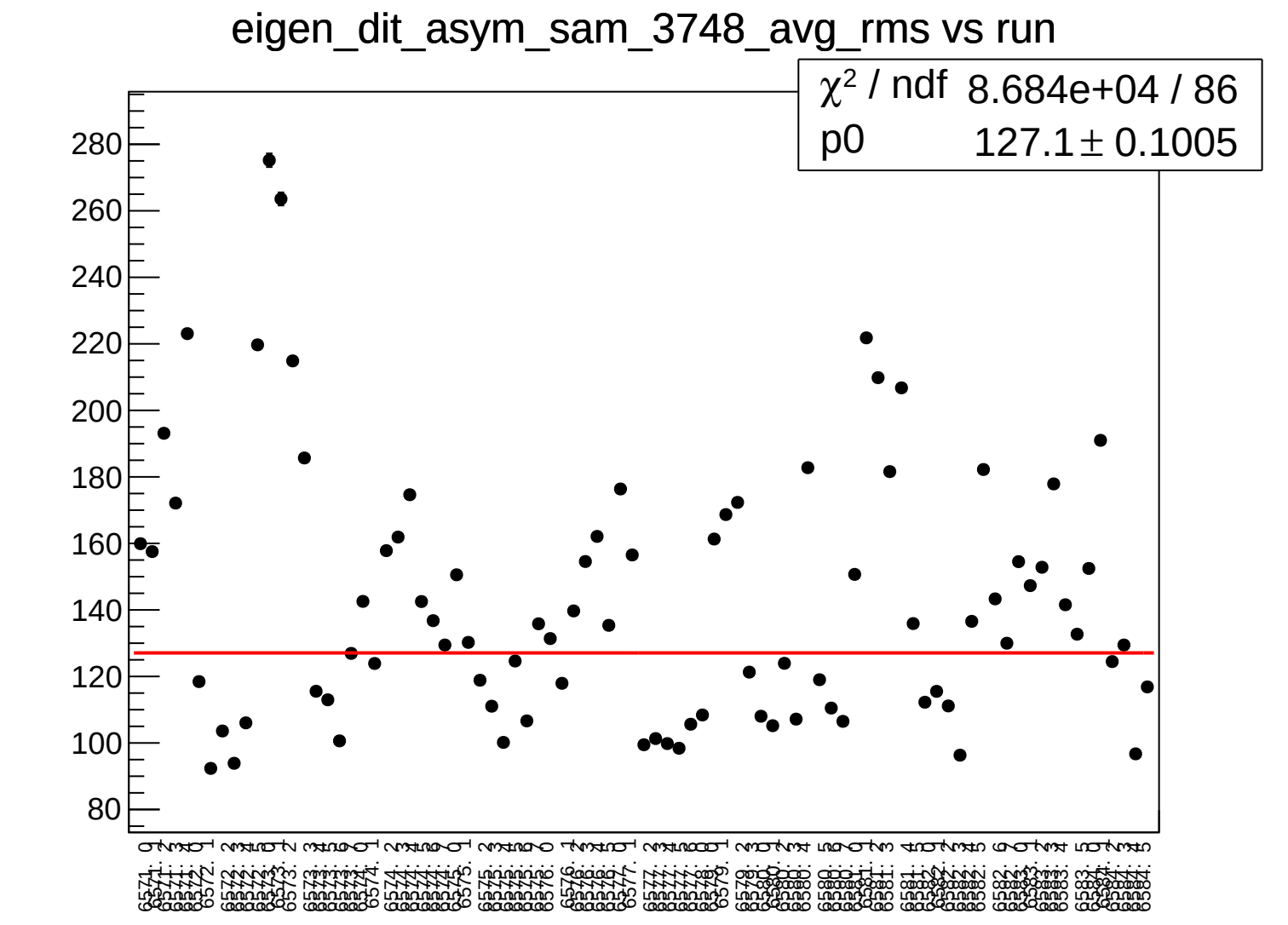

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 8.684e+04 / 86
p0 127.1 ± 0.1005
280
260
240
220
200
180
160
140
120
100
80

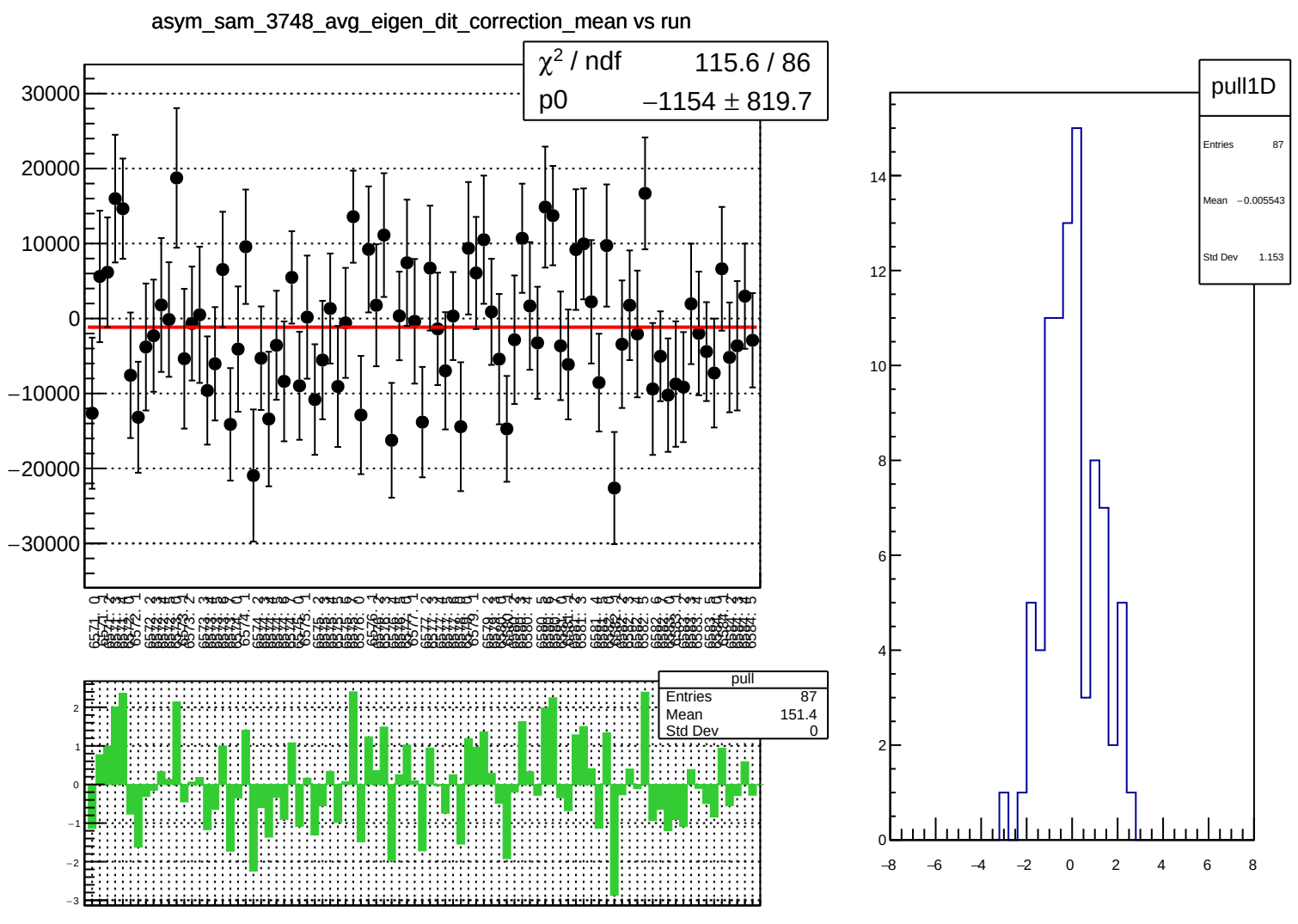

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 115.6 / 86
p0 −1154 ± 819.8
pull
Entries 87
Mean 151.4
Std Dev 0
pull1D
Entries 87
Mean −0.005543
Std Dev 1.153

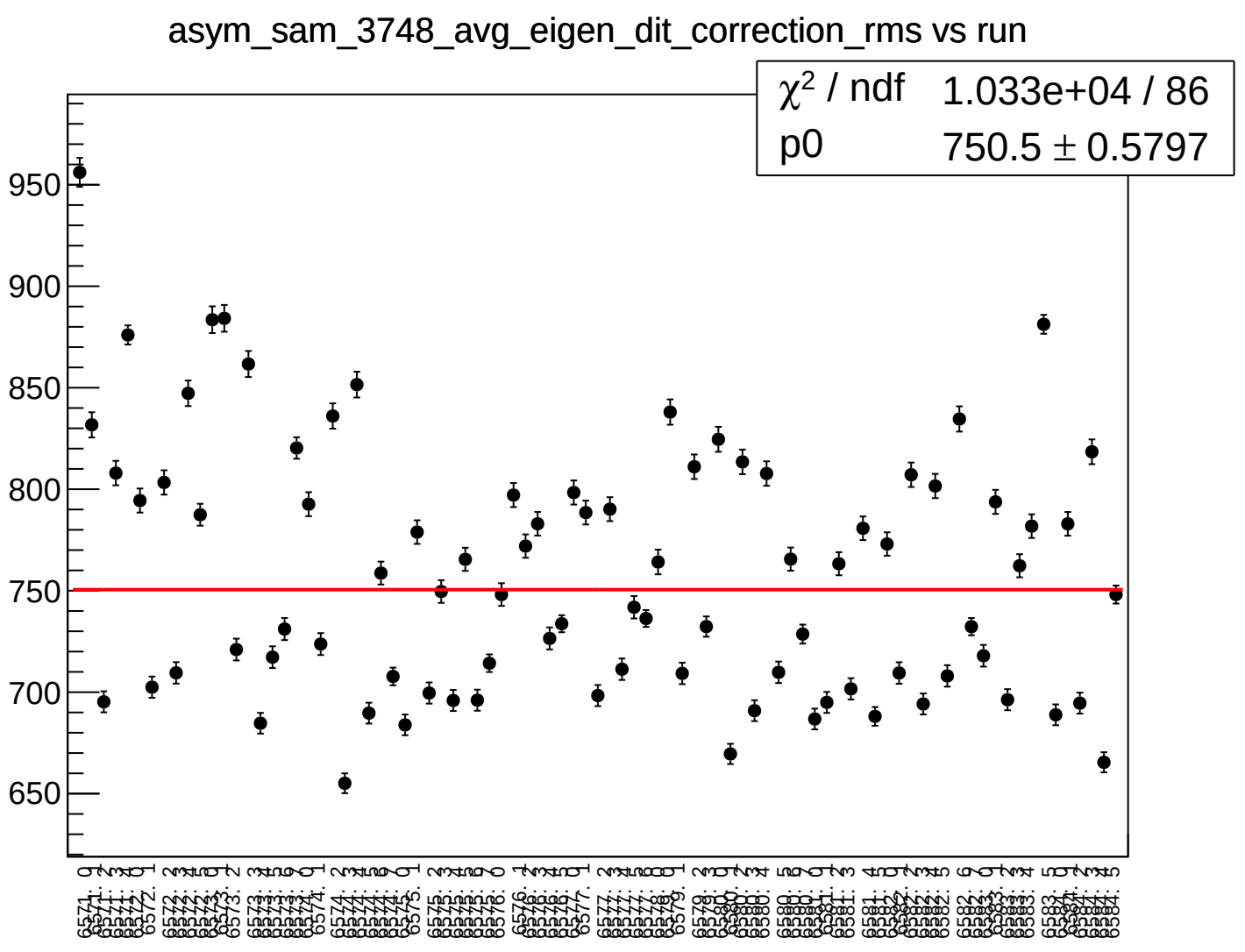

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.033e+04 / 86
p0 750.5 ± 0.5797
950
900
850
800
750
700
650

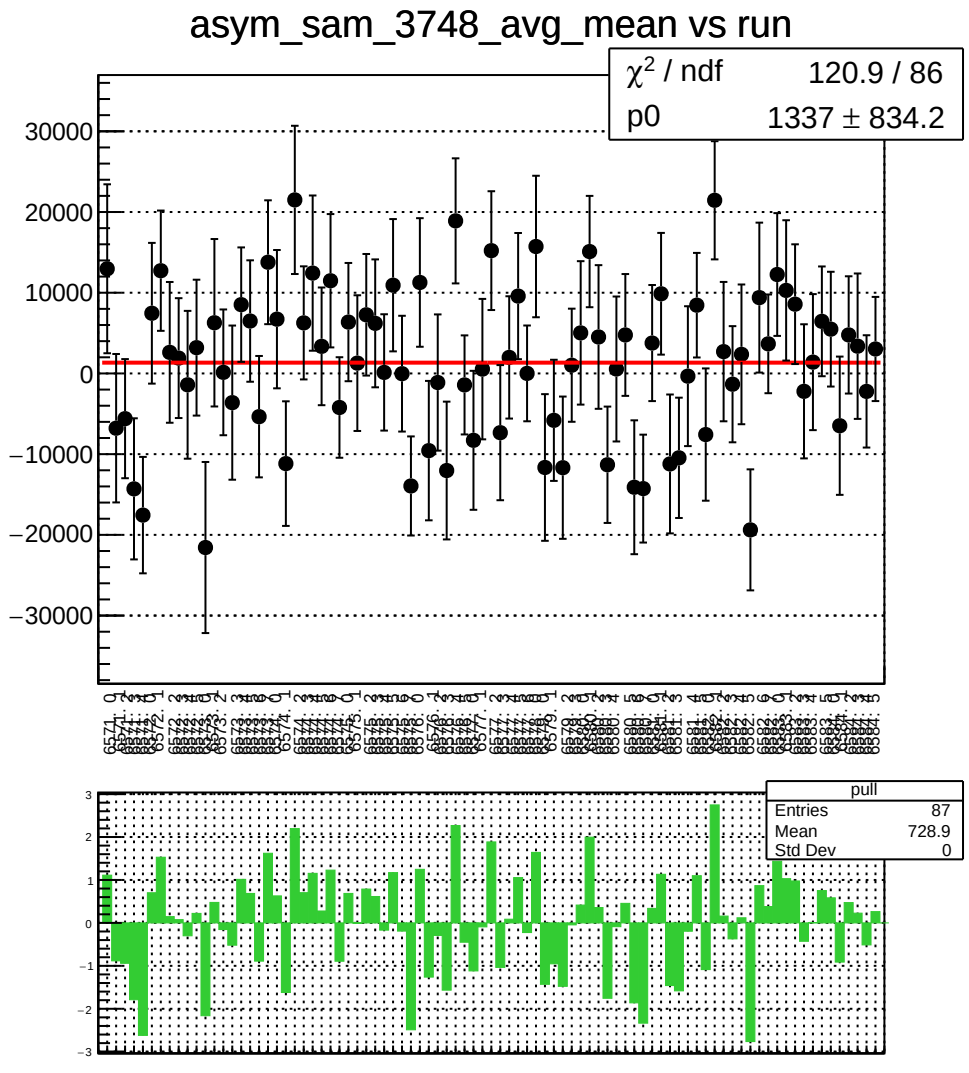

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 88.21 / 86
p0 170 ± 142.1
pull
Entries 87
Mean −56.33
Std Dev 0

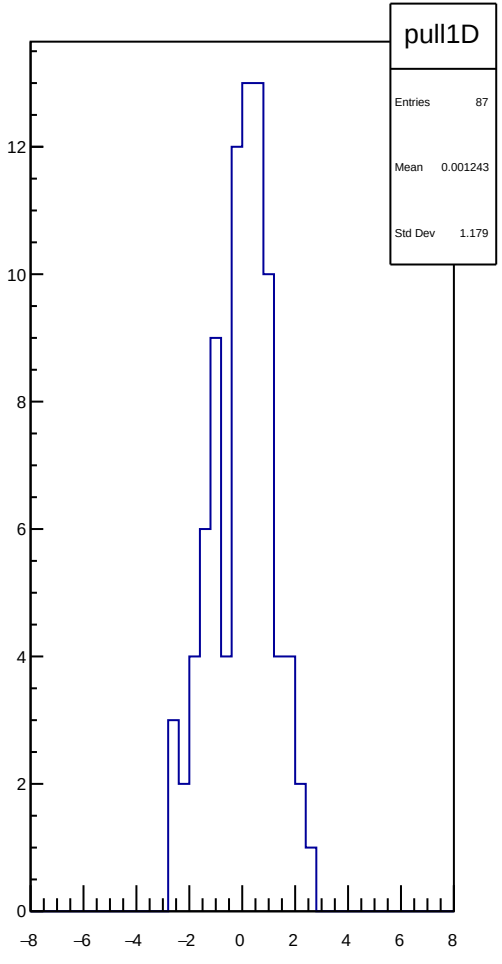

pull1D
Entries 87
Mean −0.02136
Std Dev 1.007

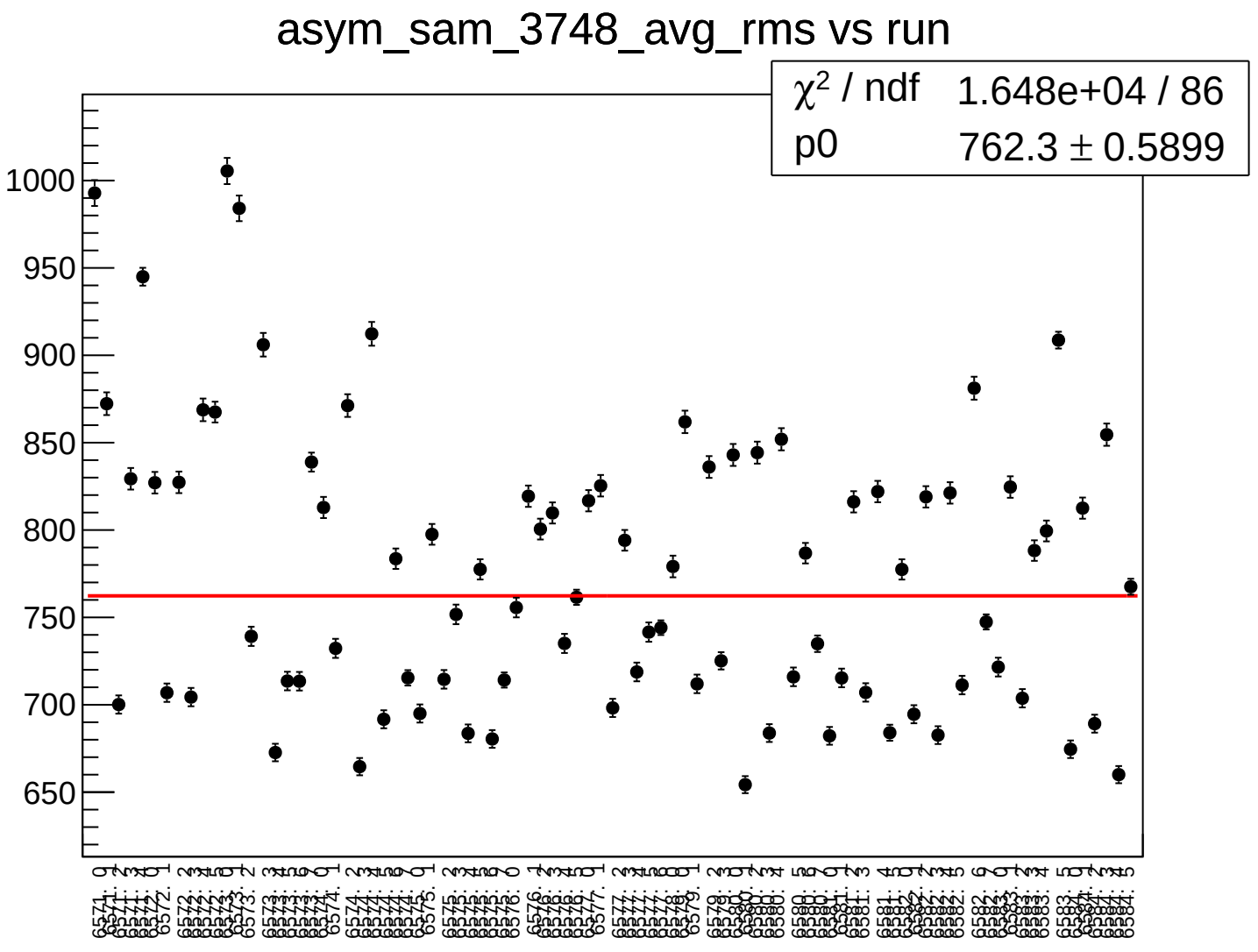

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 8.684e+04 / 86
p0 127.1 ± 0.1005
280
260
240
220
200
180
160
140
120
100
80

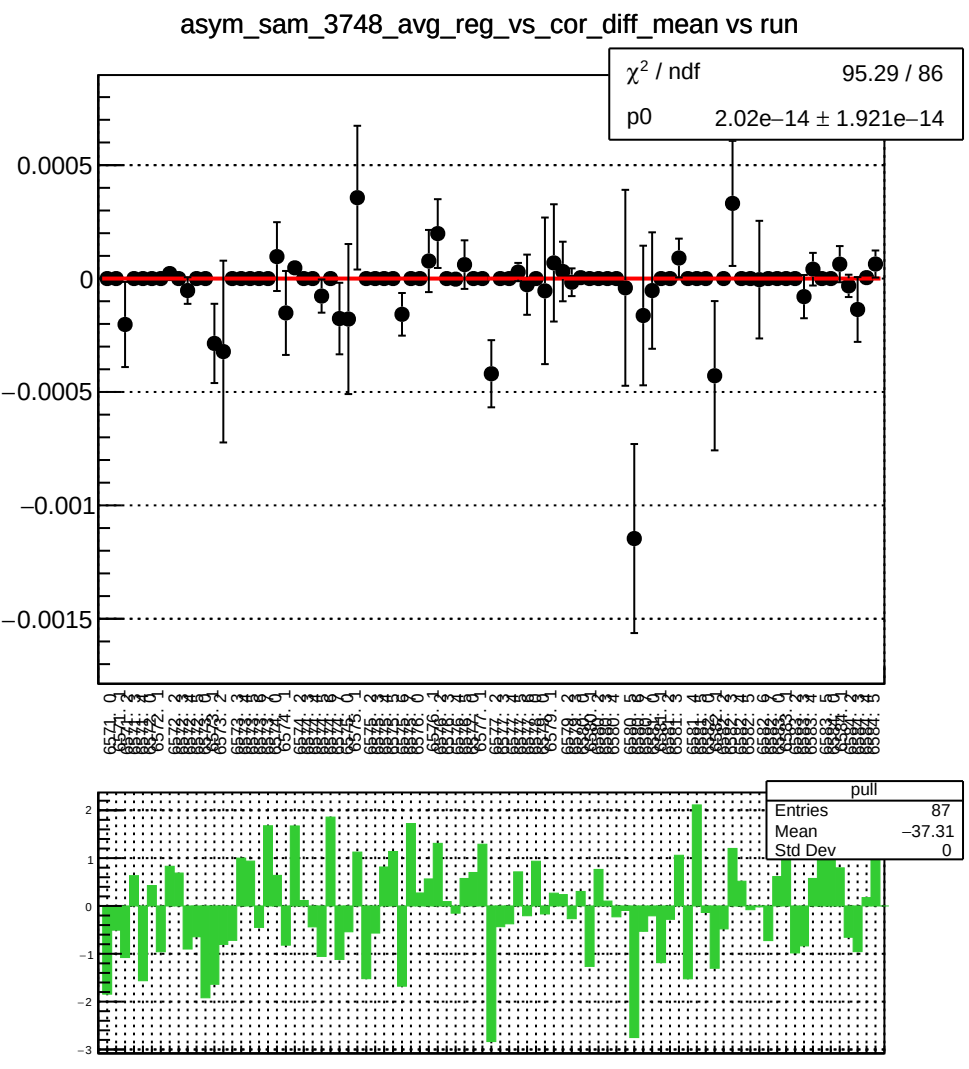

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 115.6 / 86
p0 −1154 ± 819.7
pull
Entries 87
Mean 151.4
Std Dev 0
pull1D
Entries 87
Mean −0.005543
Std Dev 1.153

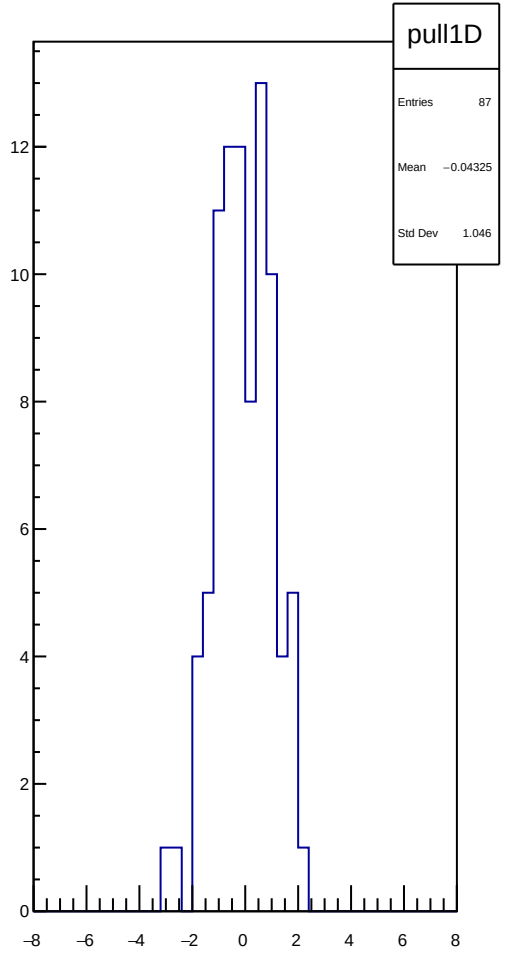

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.033e+04 / 86
p0 750.5 ± 0.5797
950
900
850
800
750
700
650

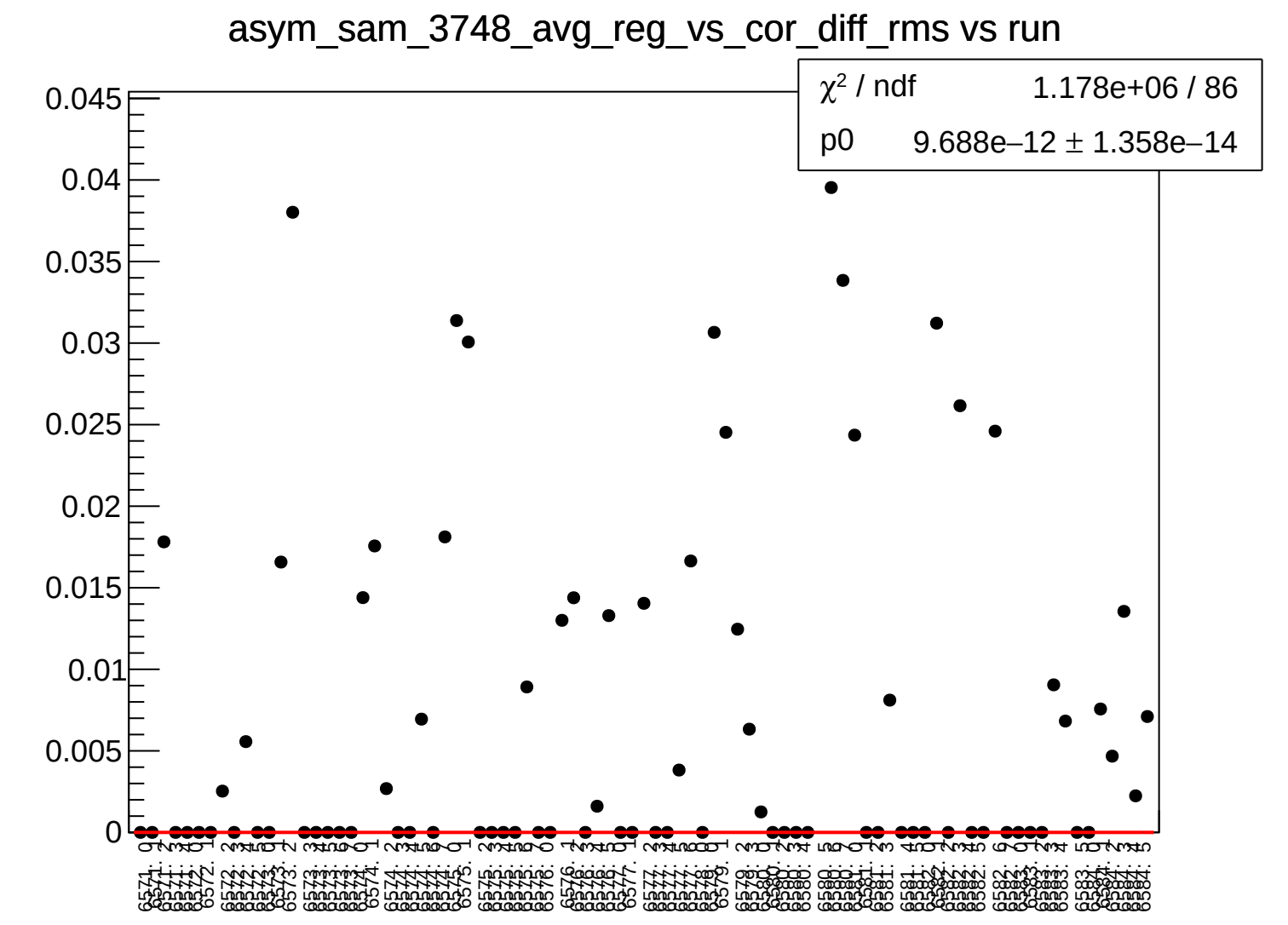

asym_sam_3748_avg_mean vs run
χ² / ndf 120.9 / 86
p0 1337 ± 834.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 728.9
Std Dev 0
3
2
1
0
−1
−2
−3

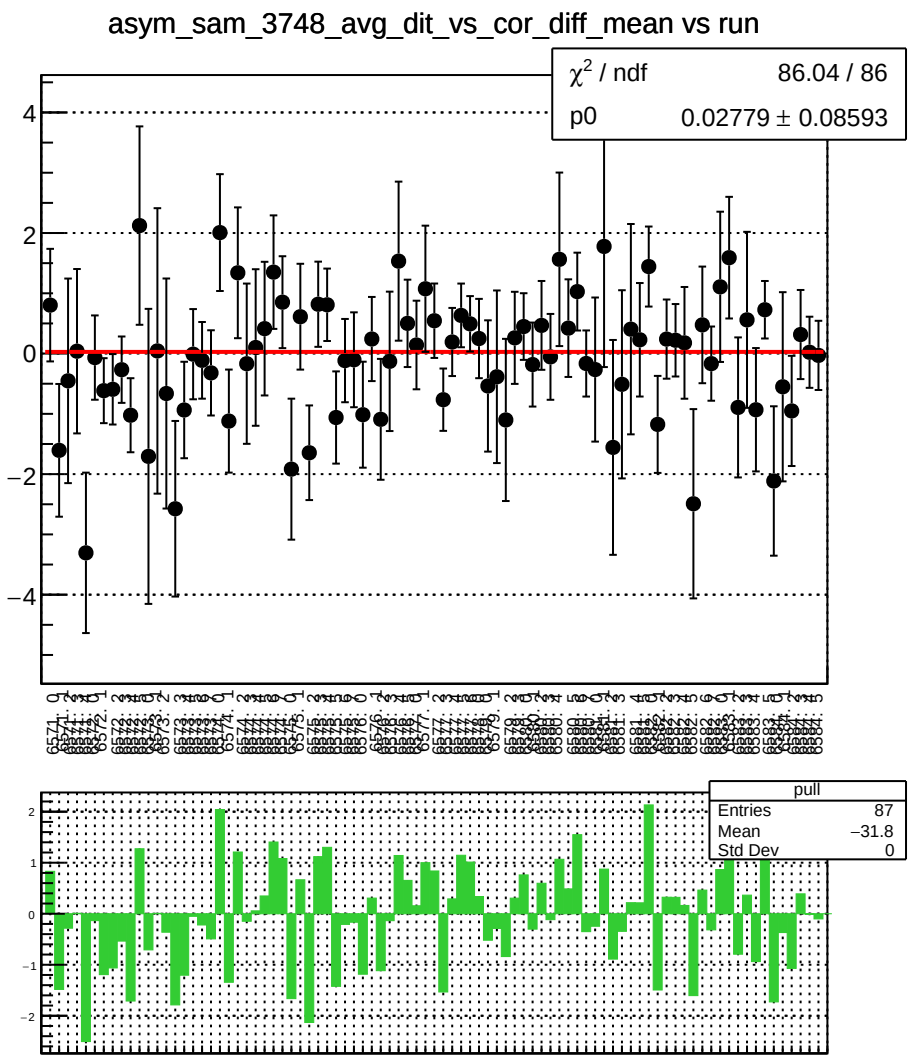

pull1D
Entries 87
Mean 0.001243
Std Dev 1.179
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

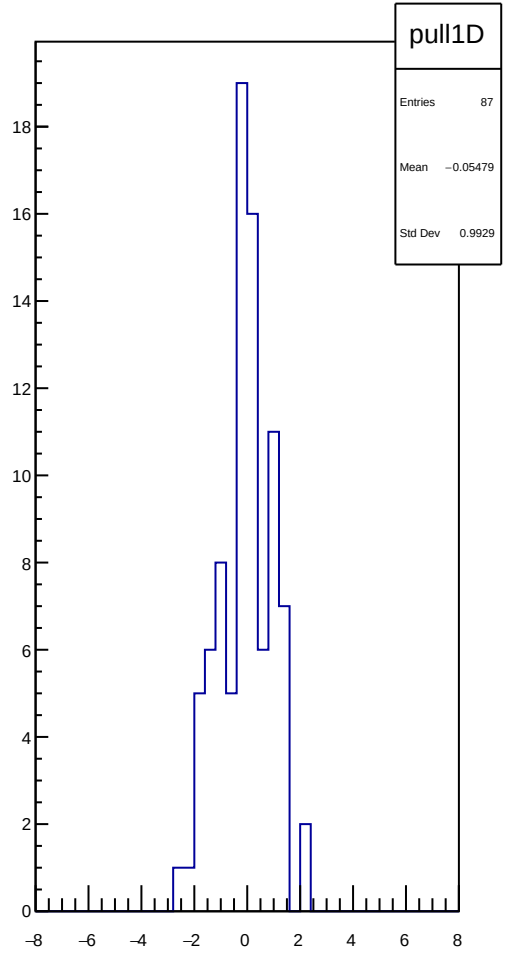

asym_sam_3748_avg_rms vs run
χ² / ndf 1.648e+04 / 86
p0 762.3 ± 0.5899
1000
950
900
850
800
750
700
650

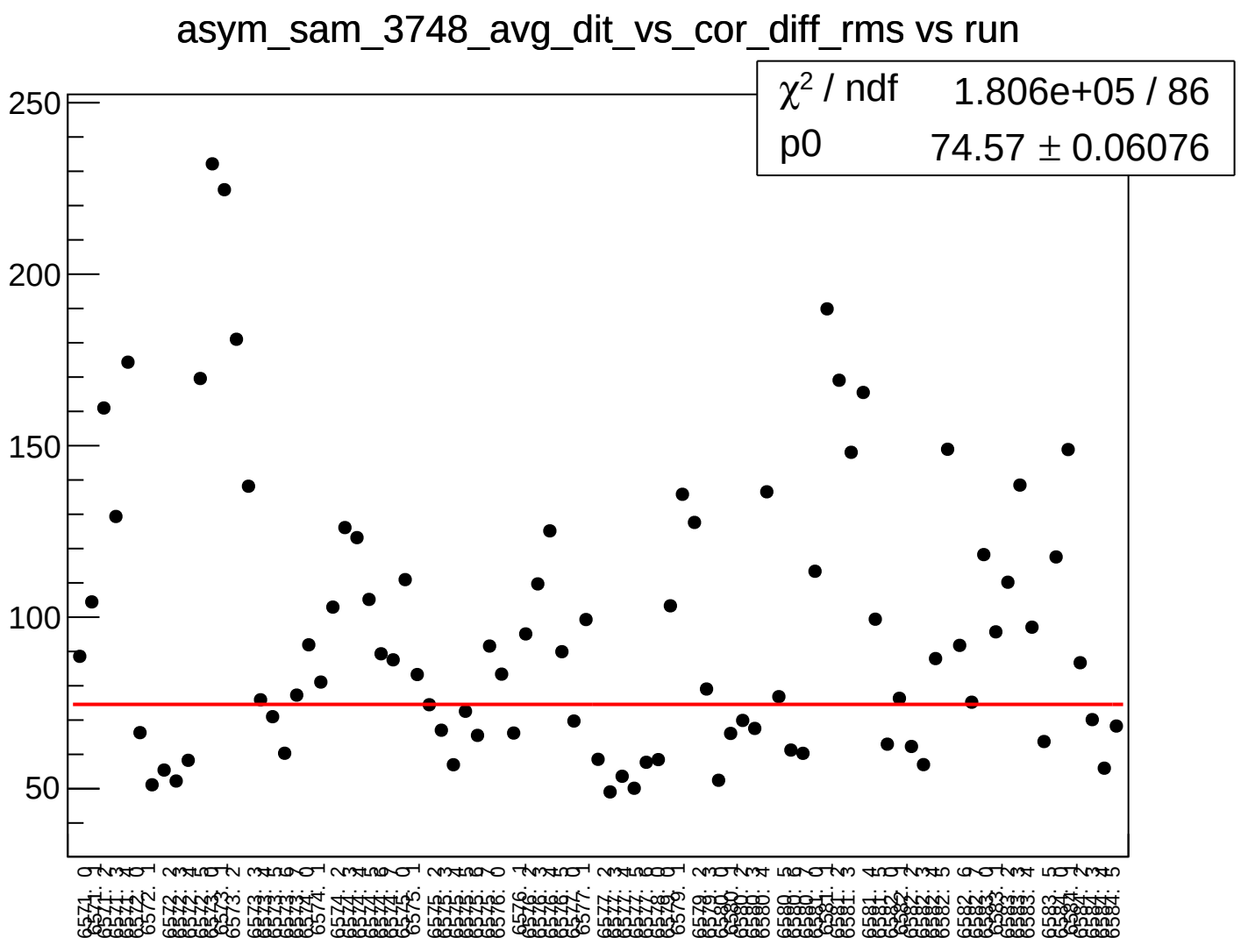

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.29 / 86
p0 2.02e−14 ± 1.921e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean −37.31
Std Dev 0
2
1
0
−1
−2
−3

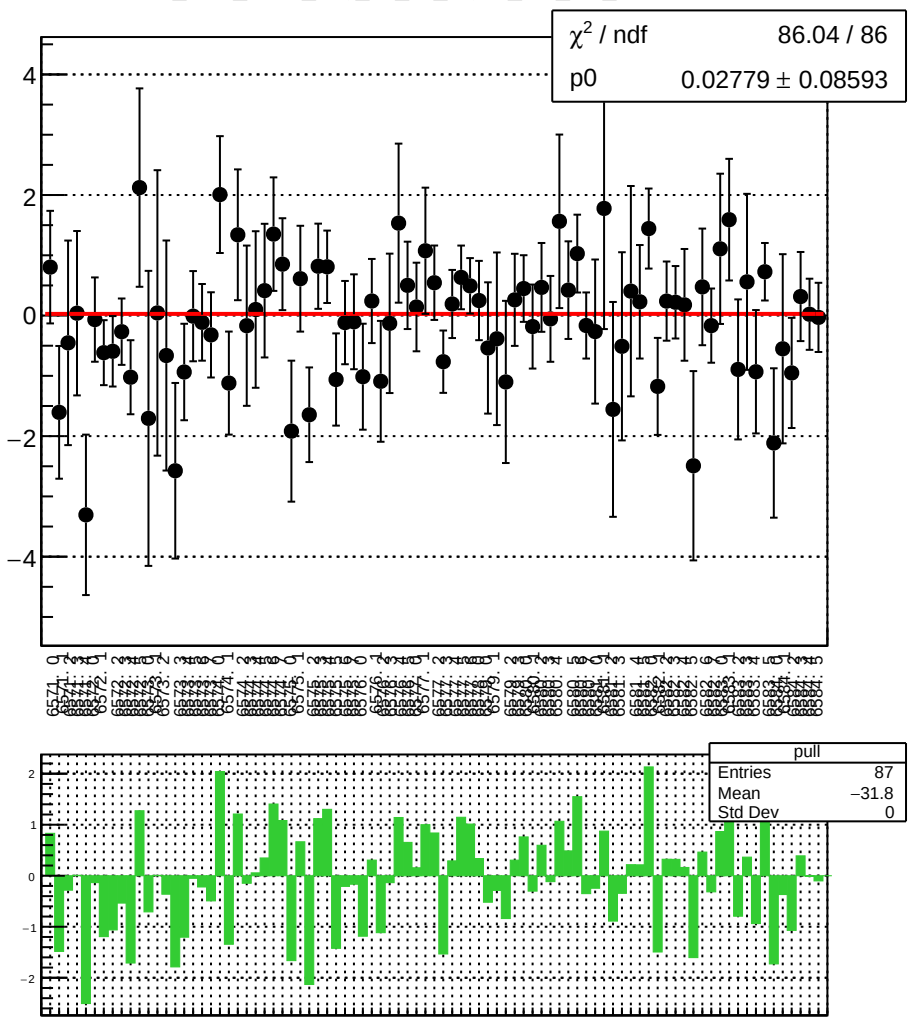

pull1D
Entries 87
Mean −0.04325
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

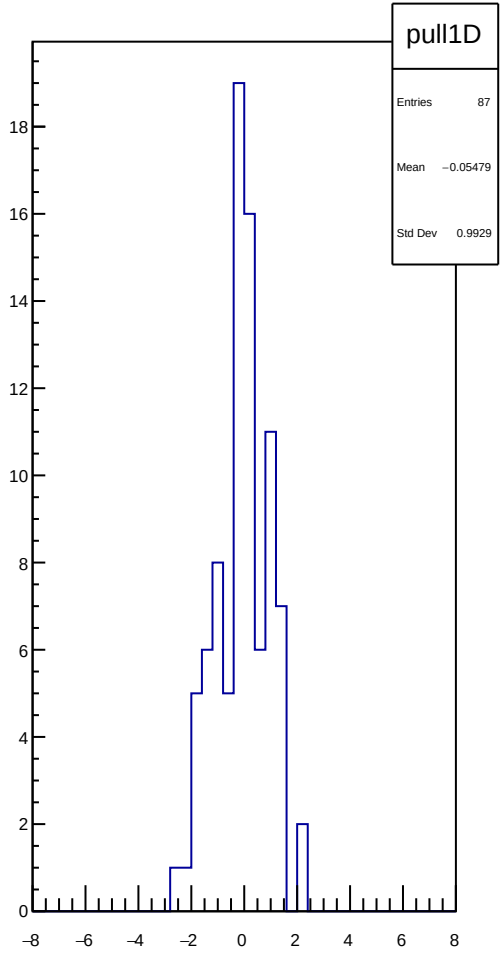

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.178e+06 / 86
p0 9.688e−12 ± 1.358e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

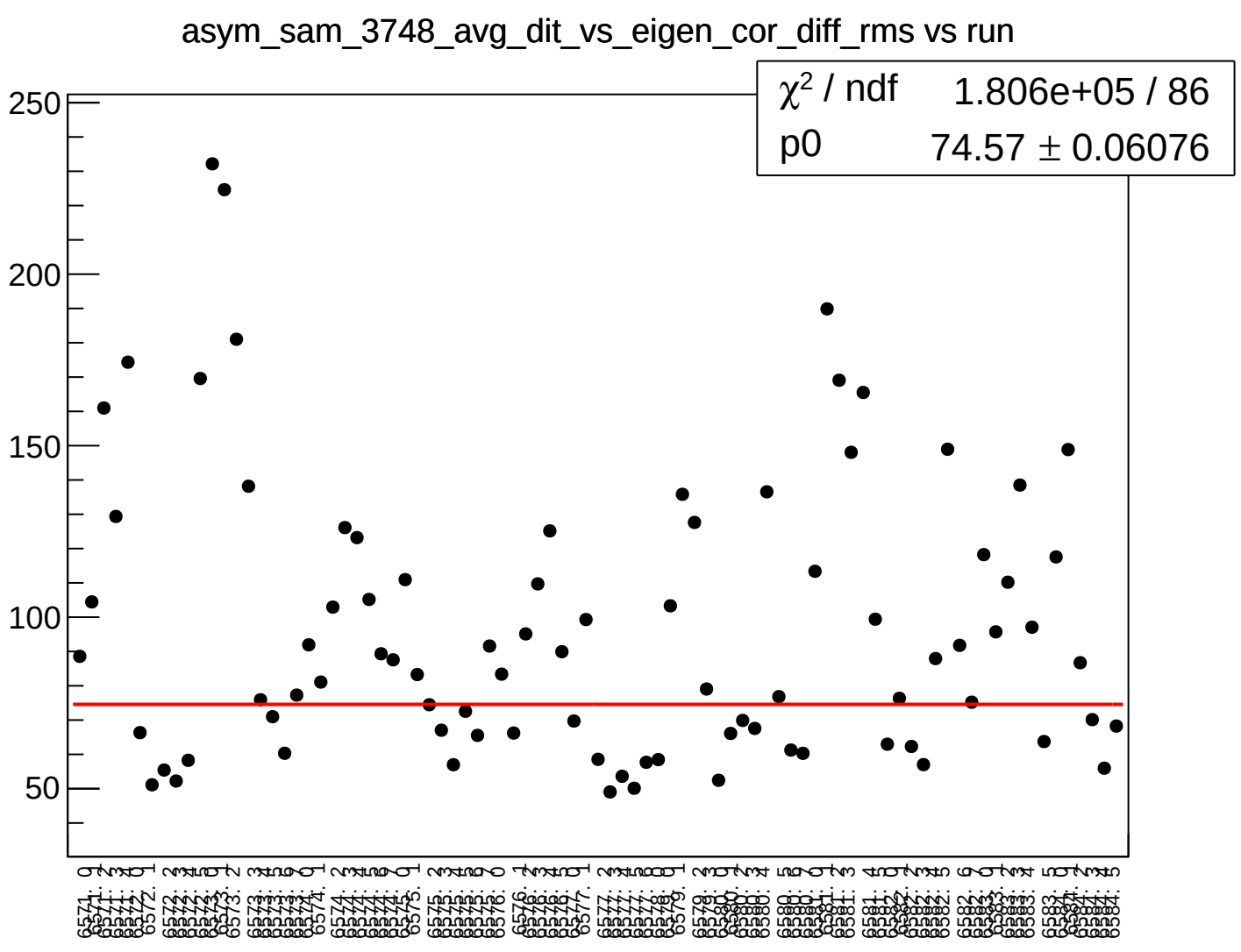

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.04 / 86
p0 0.02779 ± 0.08593
pull
Entries 87
Mean −31.8
Std Dev 0

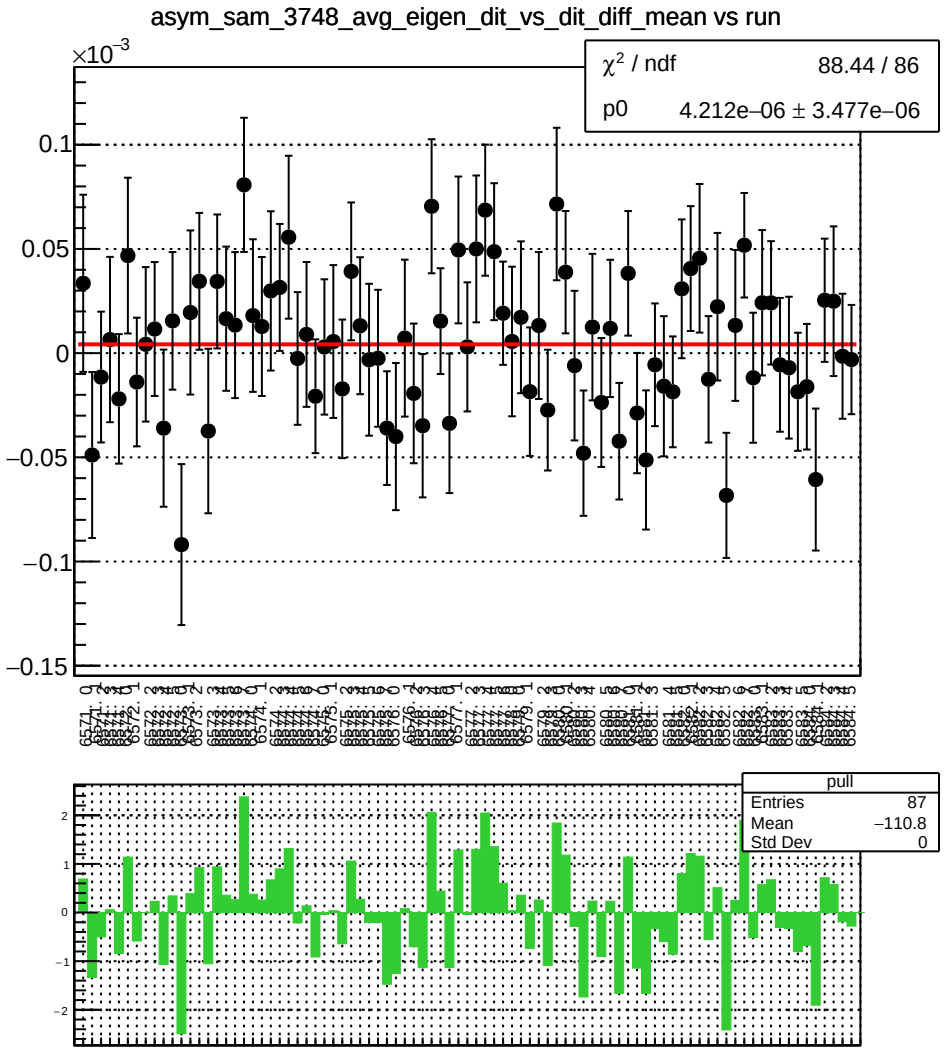

pull1D
Entries 87
Mean −0.05479
Std Dev 0.9929

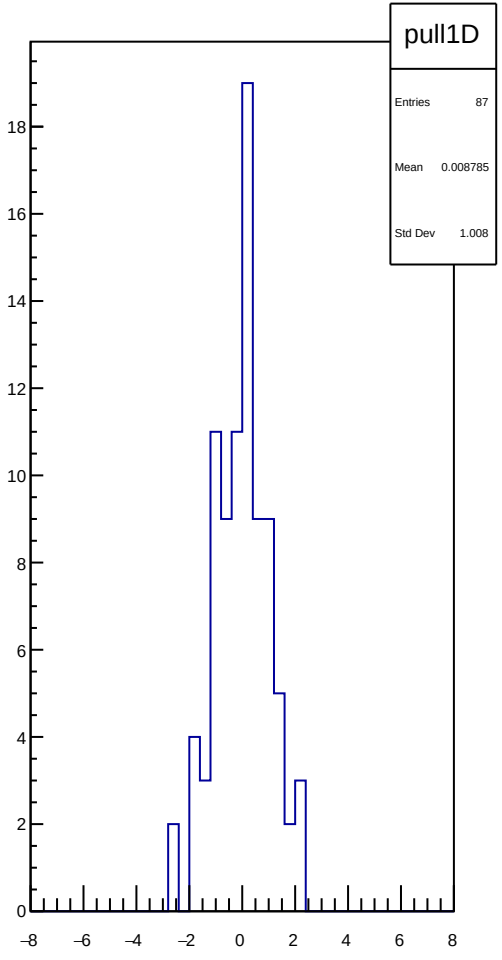

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.806e+05 / 86
p0 74.57 ± 0.06076
250
200
150
100
50

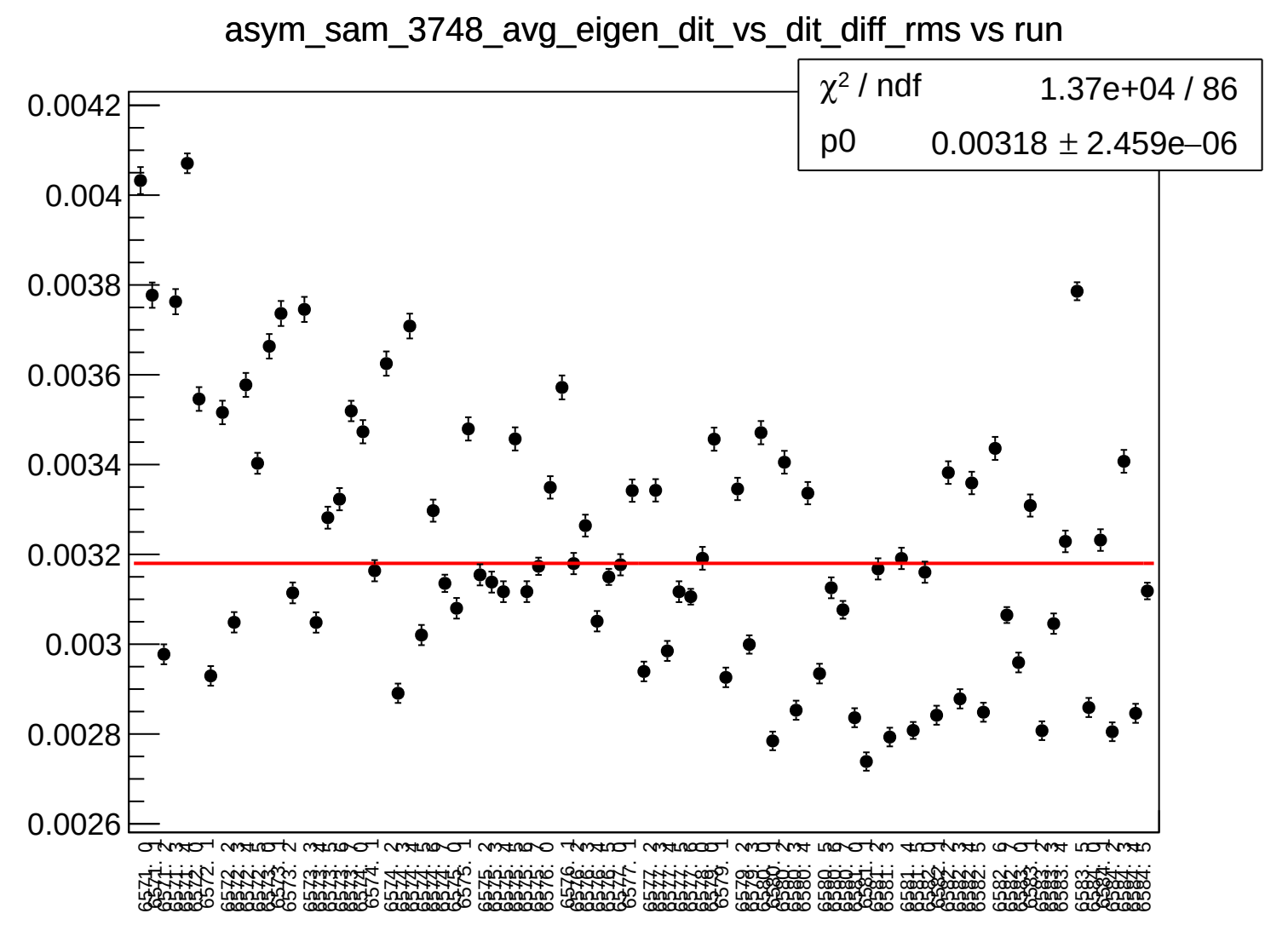

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.04 / 86
p0 0.02779 ± 0.08593
pull
Entries 87
Mean −31.8
Std Dev 0

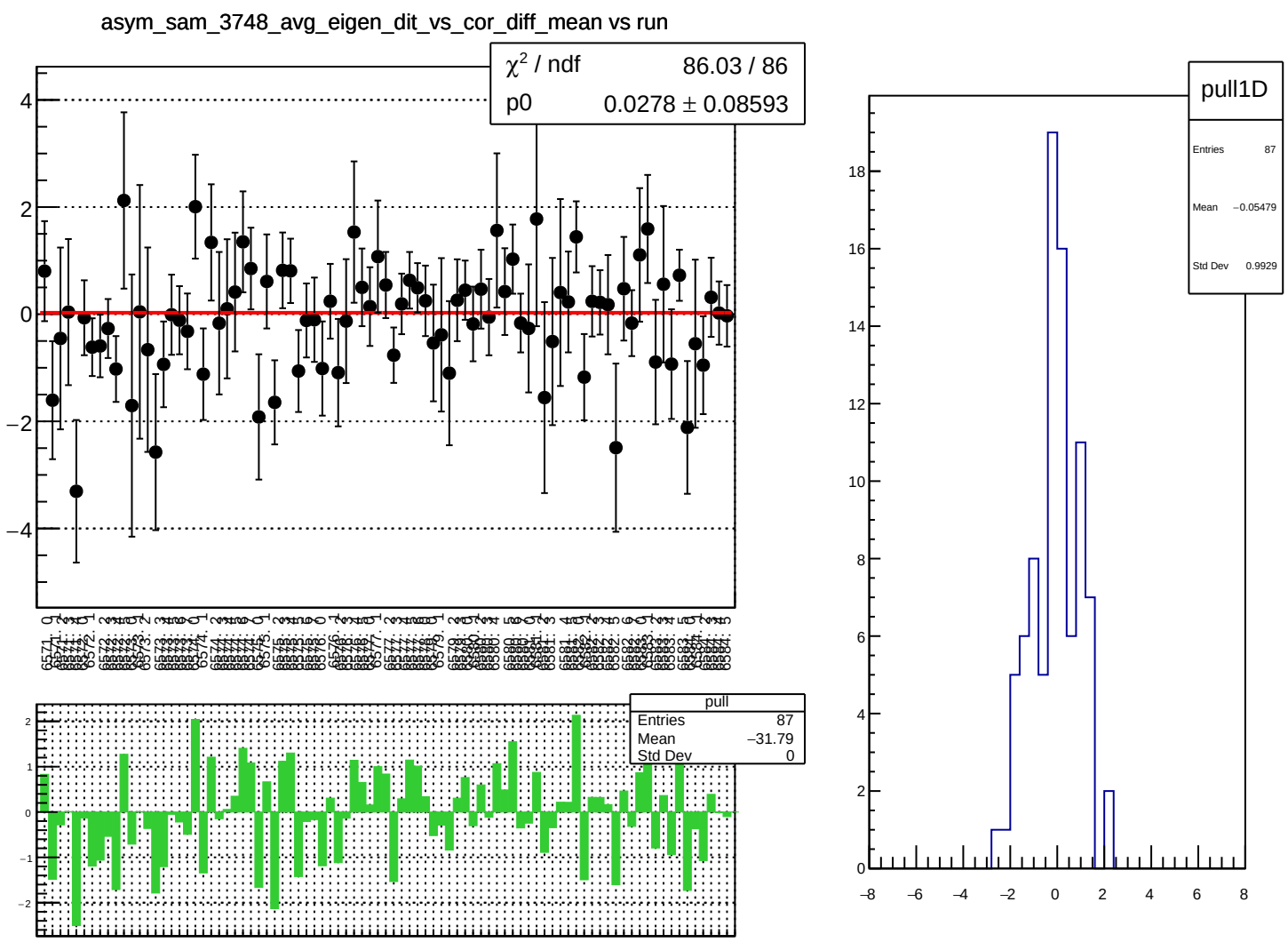

pull1D
Entries 87
Mean −0.05479
Std Dev 0.9929

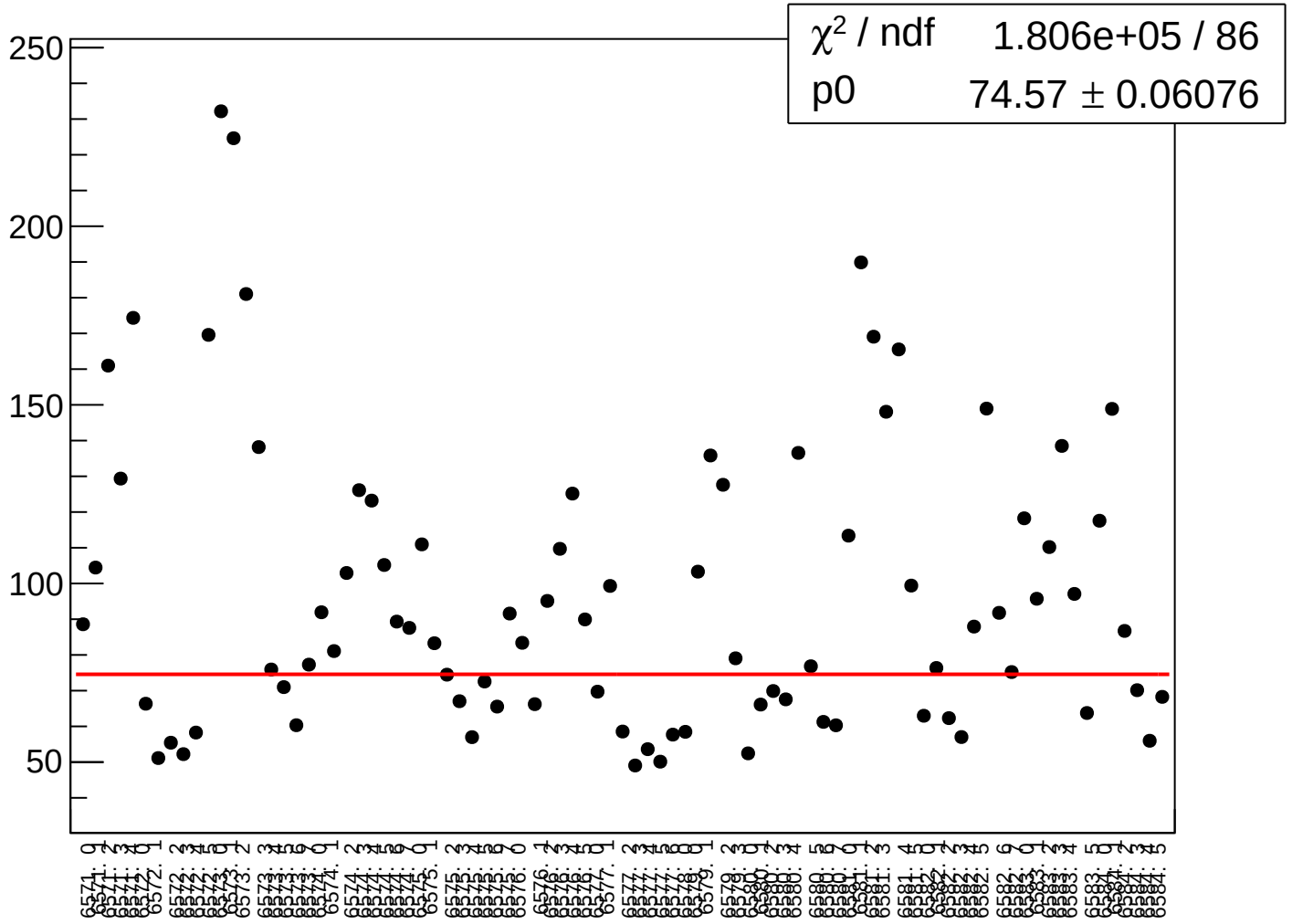

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.806e+05 / 86
p0 74.57 ± 0.06076
250
200
150
100
50

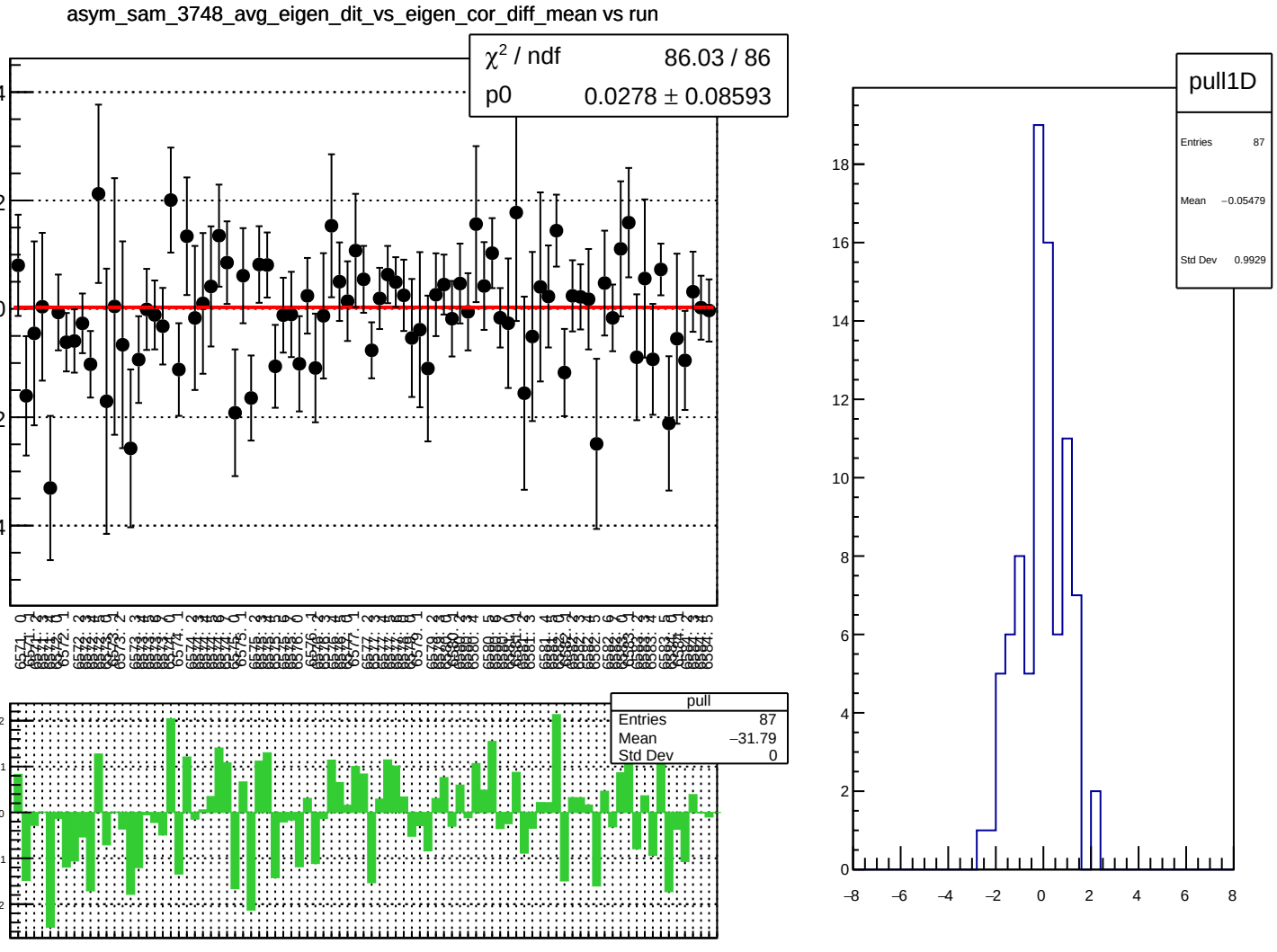

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.44 / 86
p0 4.212e−06 ± 3.477e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean −110.8
Std Dev 0
2
1
0
−1
−2

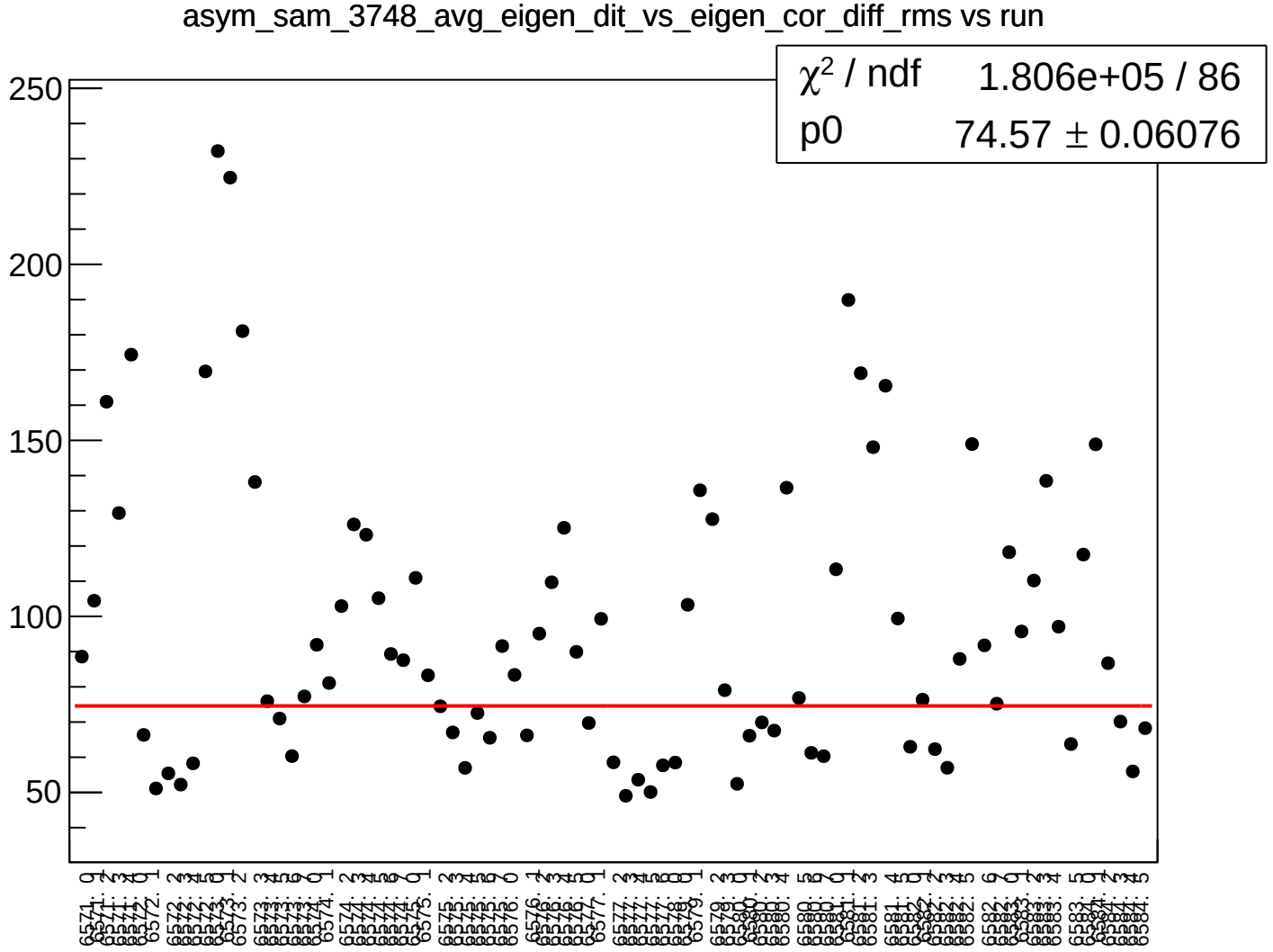

pull1D
Entries 87
Mean 0.008785
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

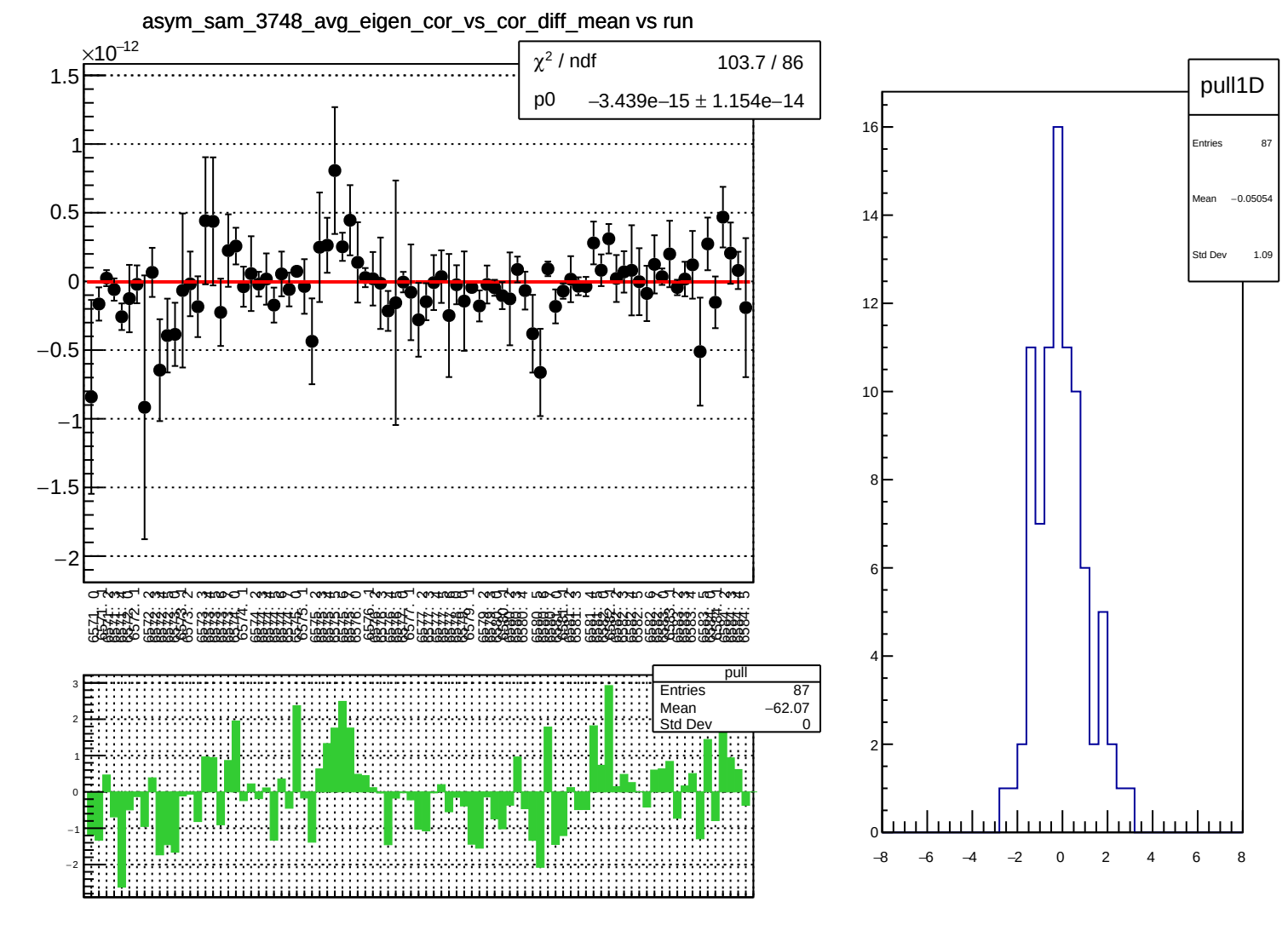

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.37e+04 / 86
p0 0.00318 ± 2.459e–06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

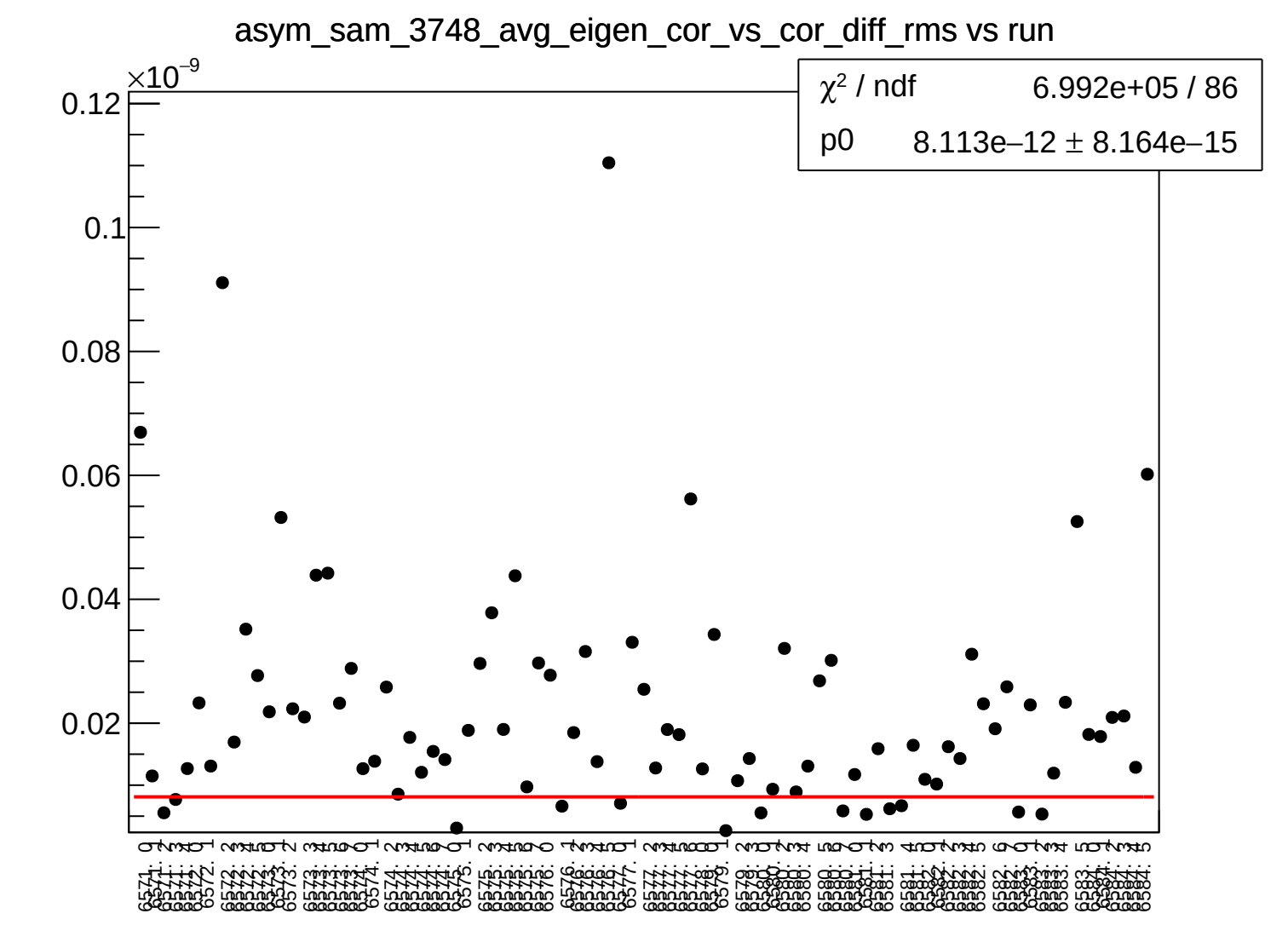

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.03 / 86
p0 0.0278 ± 0.08593
pull
Entries 87
Mean −31.79
Std Dev 0
pull1D
Entries 87
Mean −0.05479
Std Dev 0.9929

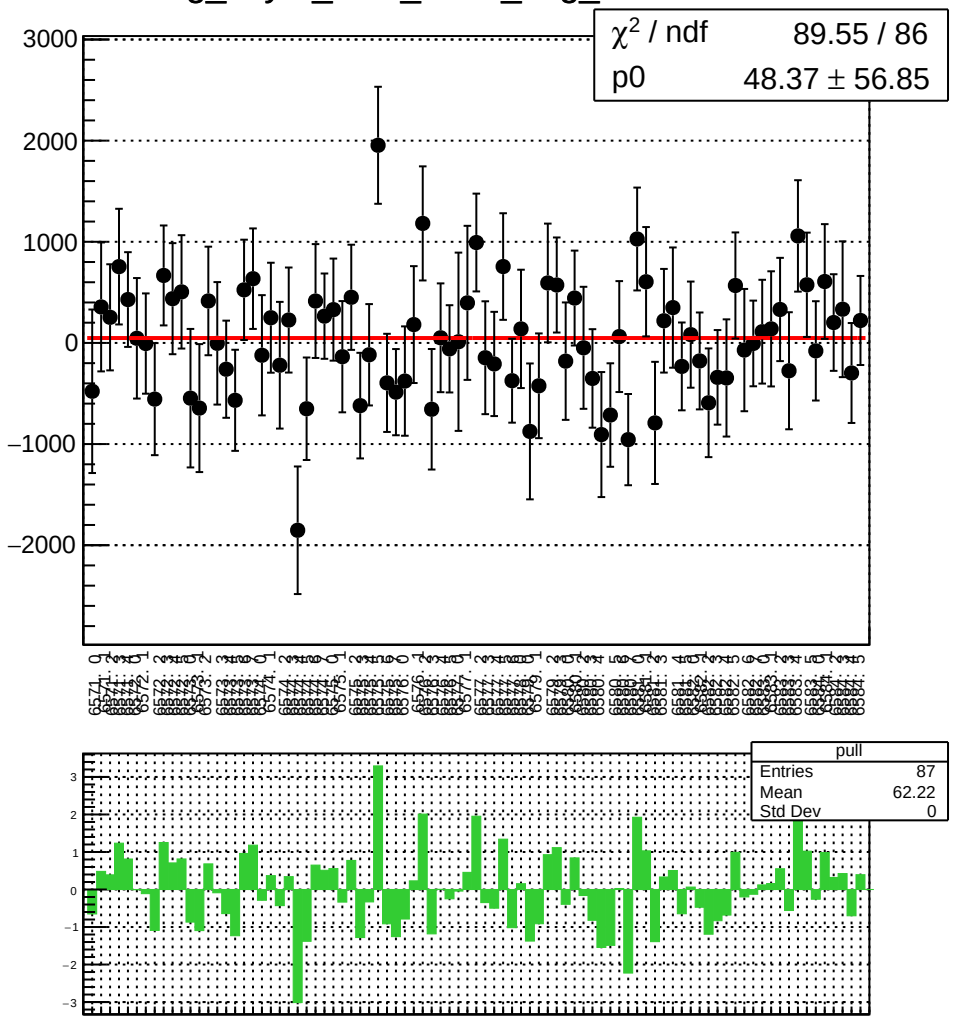

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.806e+05 / 86
p0 74.57 ± 0.06076
250
200
150
100
50

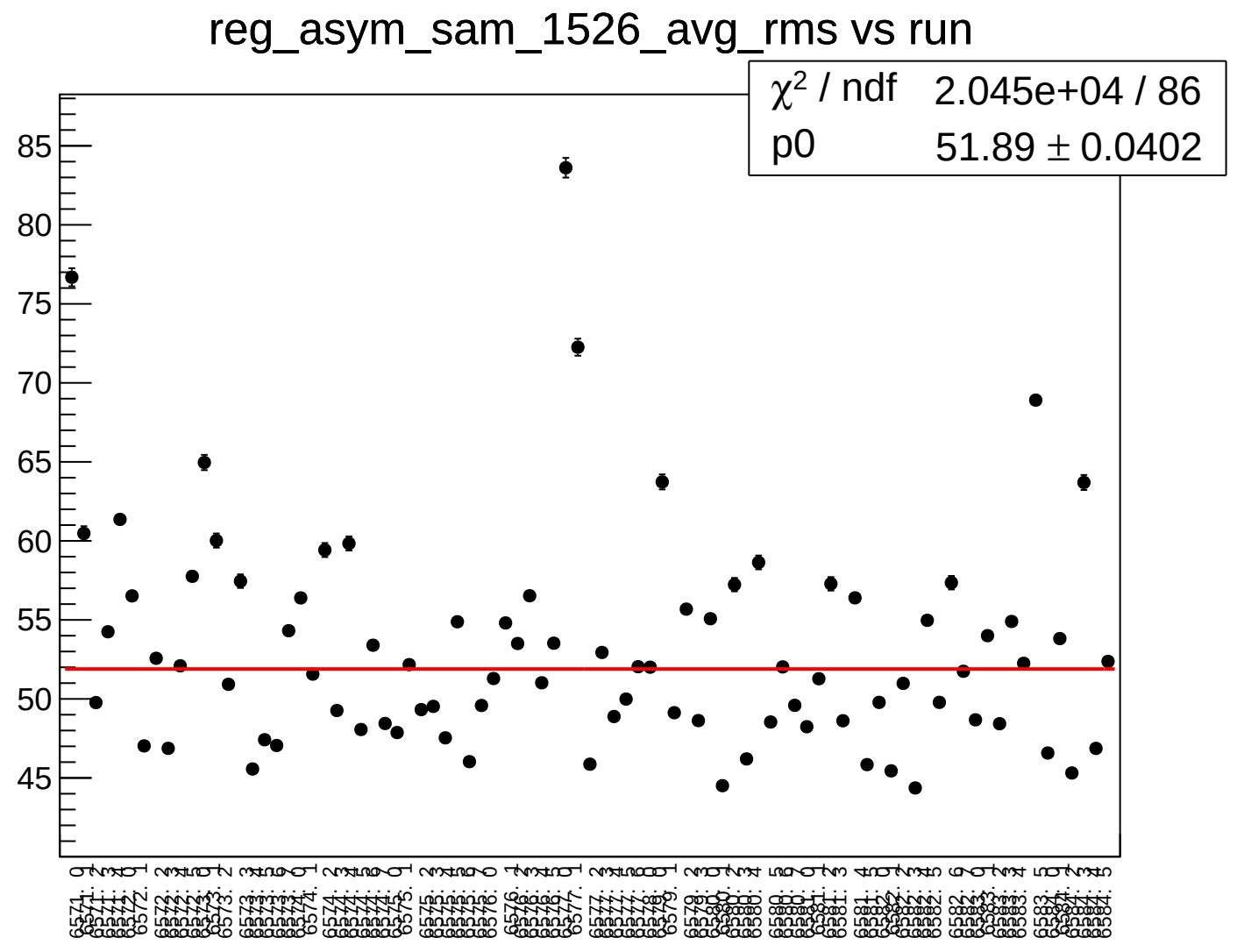

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.03 / 86
p0 0.0278 ± 0.08593
pull
Entries 87
Mean −31.79
Std Dev 0
pull1D
Entries 87
Mean −0.05479
Std Dev 0.9929

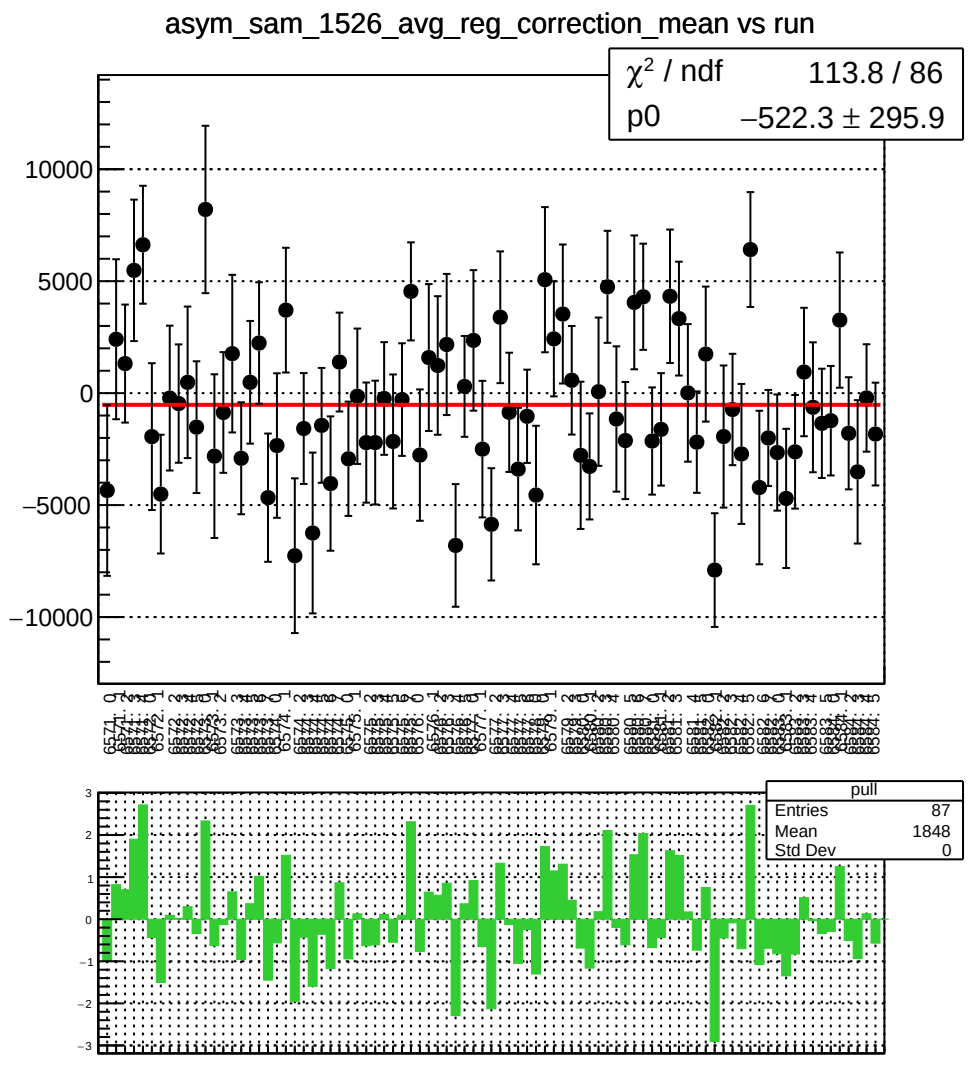

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.806e+05 / 86
p0 74.57 ± 0.06076
250
200
150
100
50

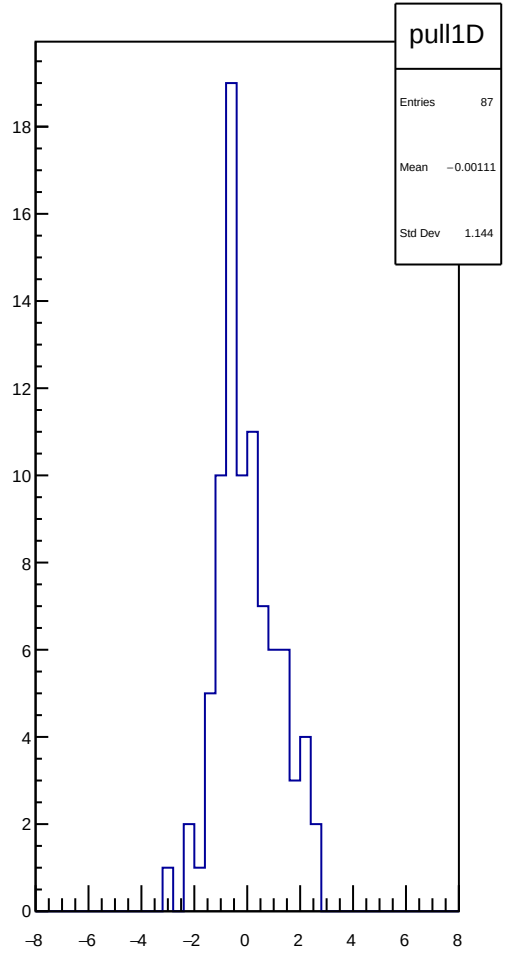

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 103.7 / 86
p0 −3.439e−15 ± 1.154e−14
pull
Entries 87
Mean −62.07
Std Dev 0
pull1D
Entries 87
Mean −0.05054
Std Dev 1.09

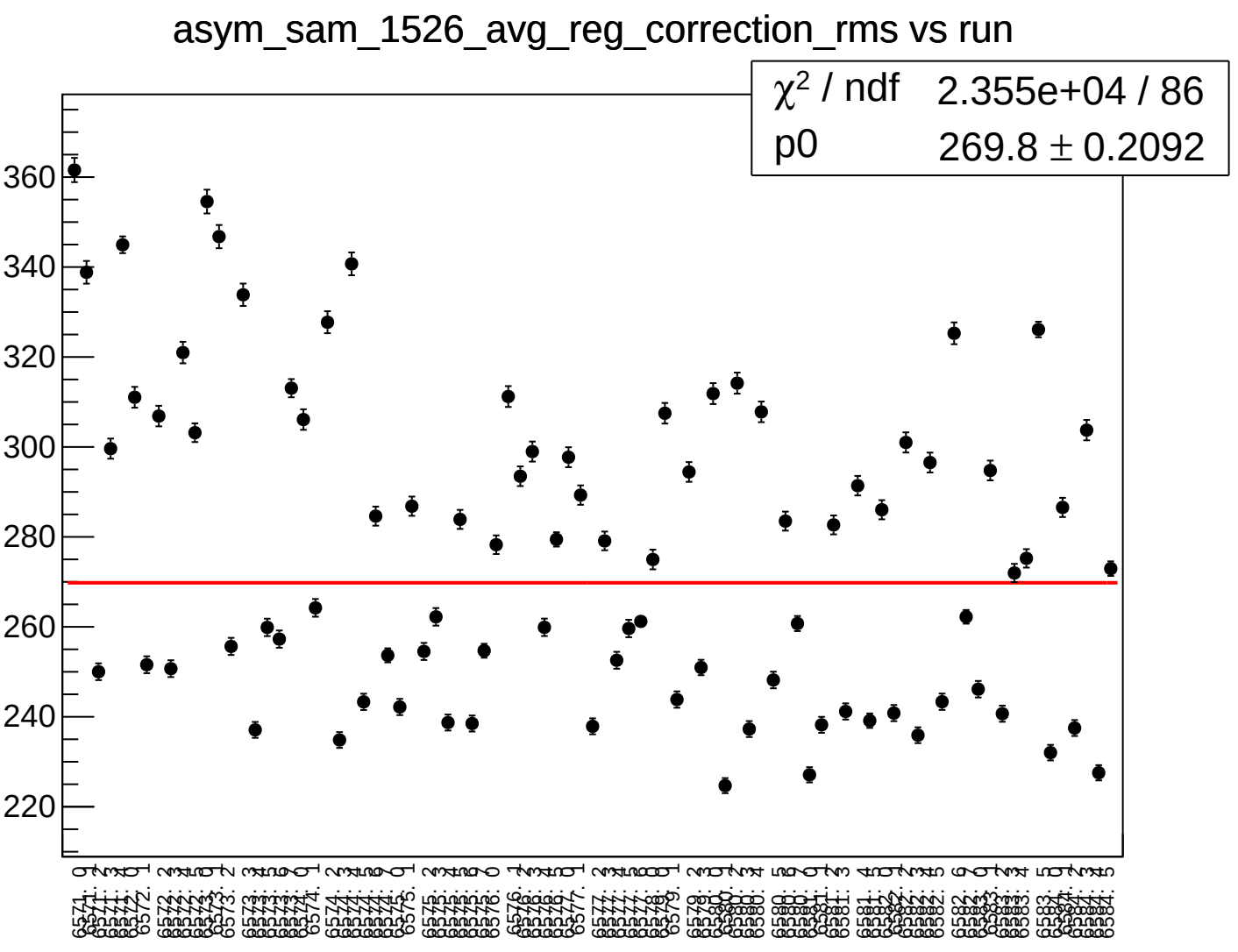

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.992e+05 / 86
p0 8.113e−12 ± 8.164e−15
0.12
0.1
0.08
0.06
0.04
0.02

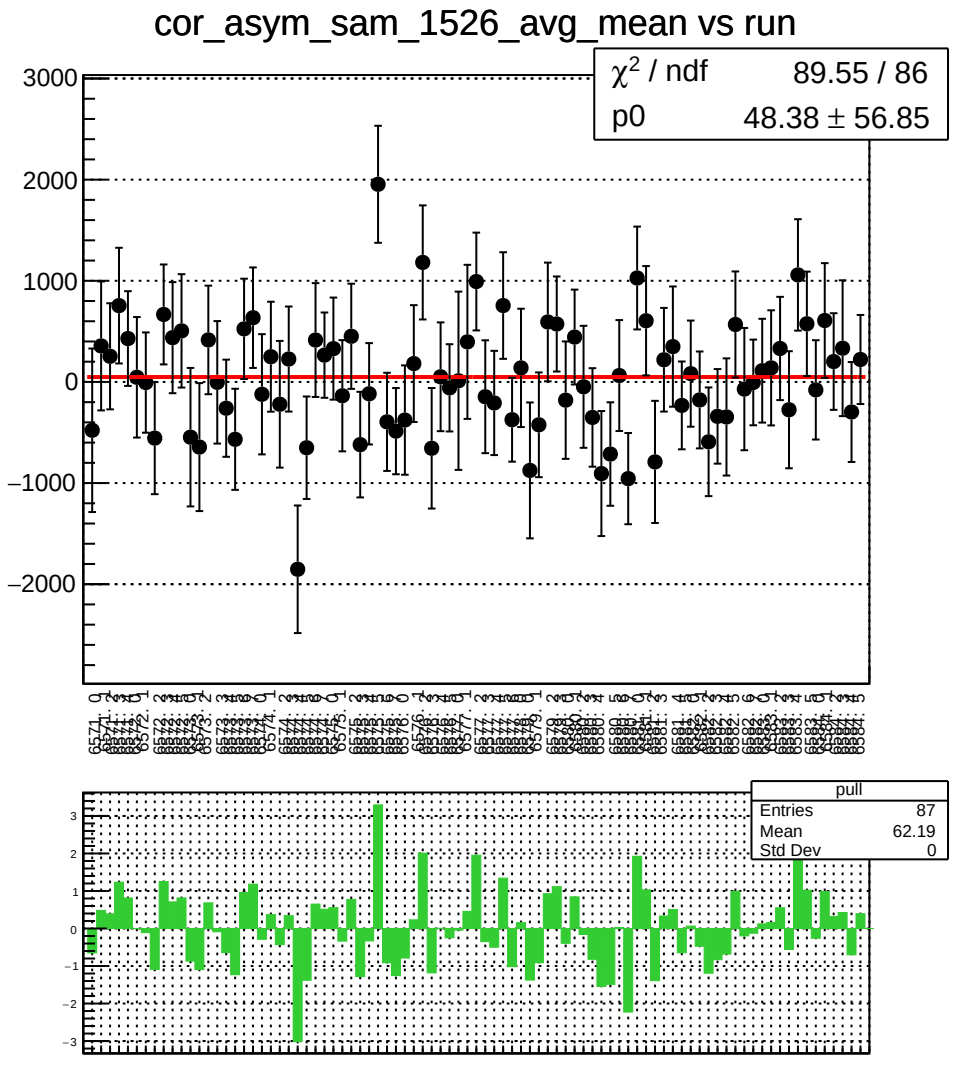

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 89.55 / 86
p0 48.37 ± 56.85
pull
Entries 87
Mean 62.22
Std Dev 0
pull1D
Entries 87
Mean −0.004045
Std Dev 1.015

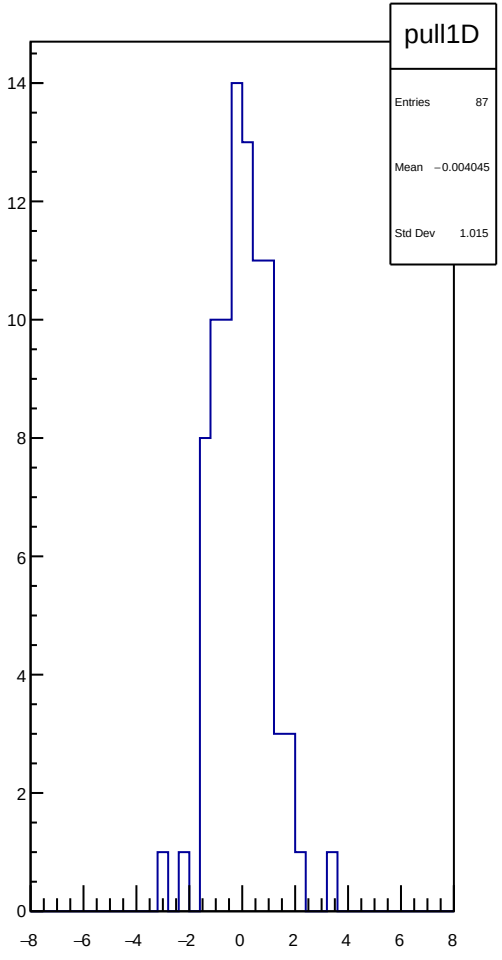

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.045e+04 / 86
p0 51.89 ± 0.0402
85
80
75
70
65
60
55
50
45


asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 113.8 / 86
p0 −522.3 ± 295.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 1848
Std Dev 0
3
2
1
0
−1
−2
−3

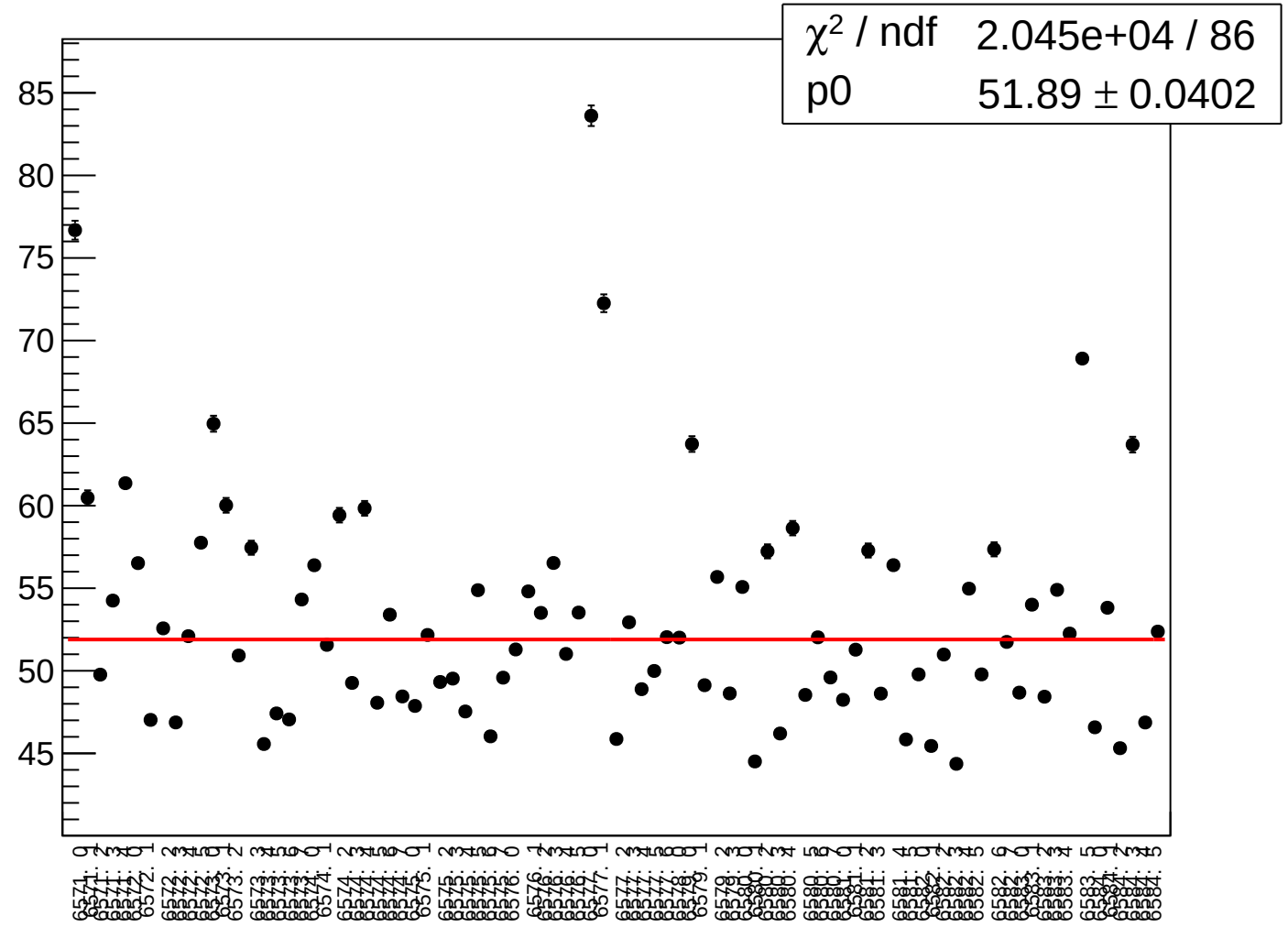

pull1D
Entries 87
Mean −0.00111
Std Dev 1.144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

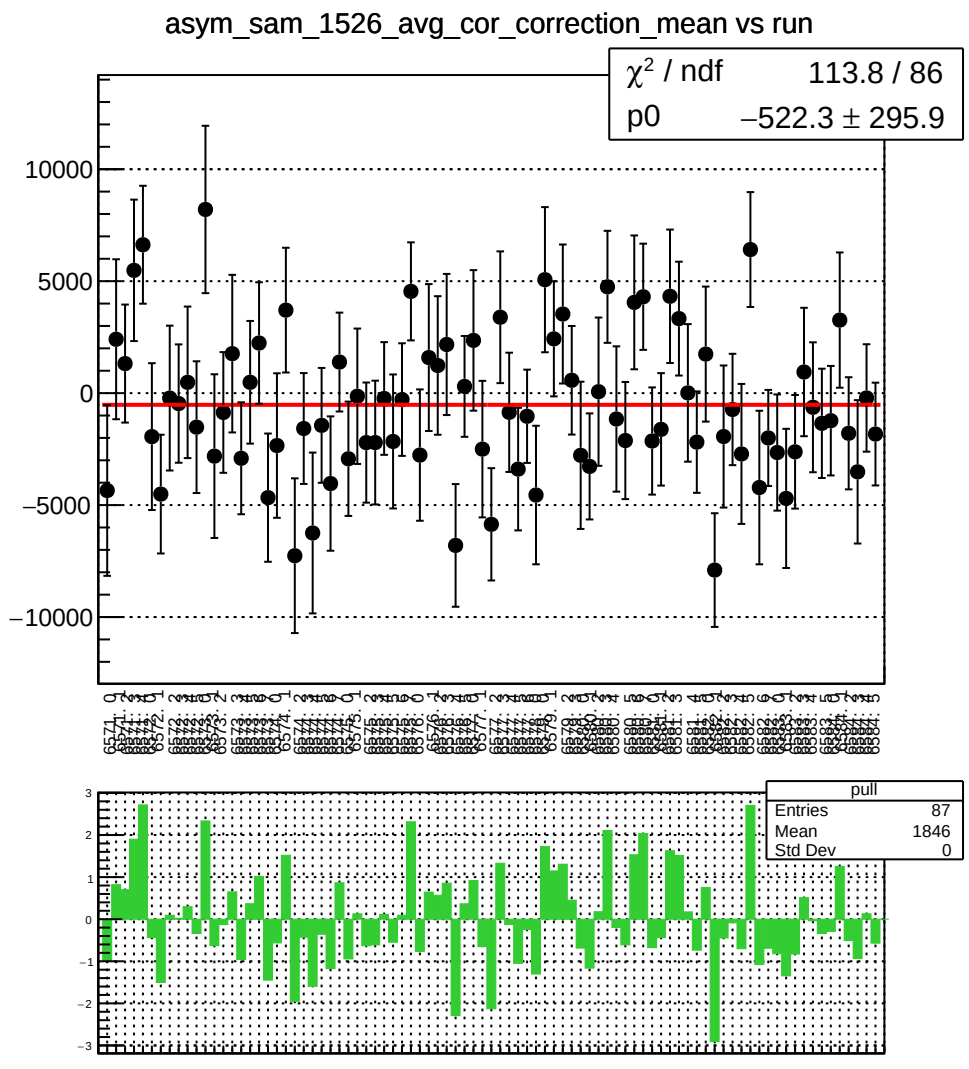

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2.355e+04 / 86
p0 269.8 ± 0.2092
360
340
320
300
280
260
240
220

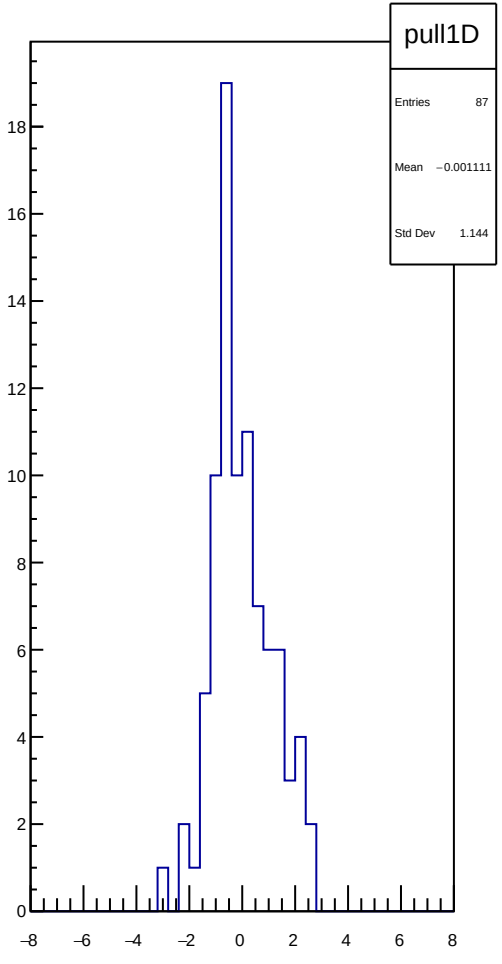

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 89.55 / 86
p0 48.38 ± 56.85
pull
Entries 87
Mean 62.19
Std Dev 0

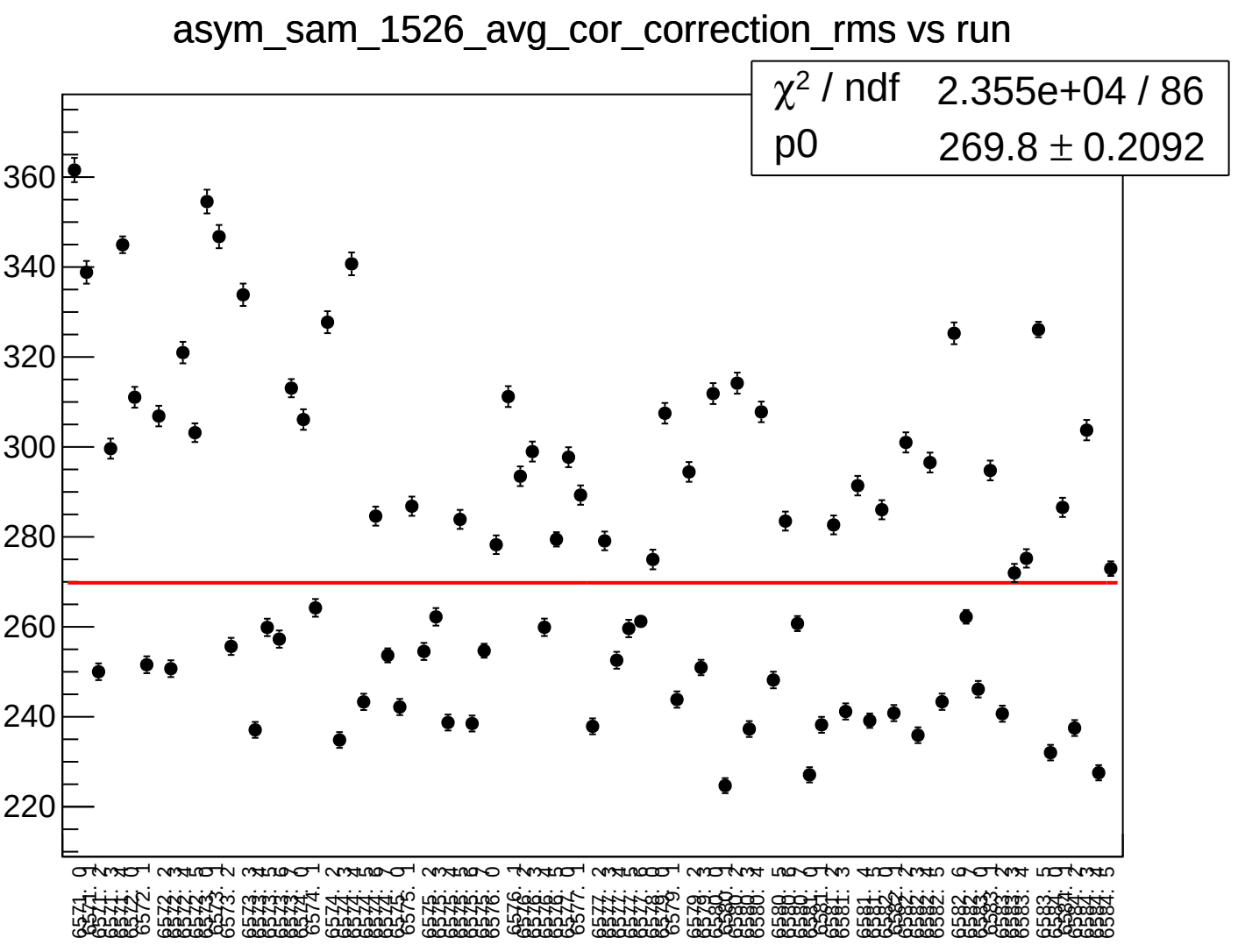

pull1D
Entries 87
Mean −0.004045
Std Dev 1.015

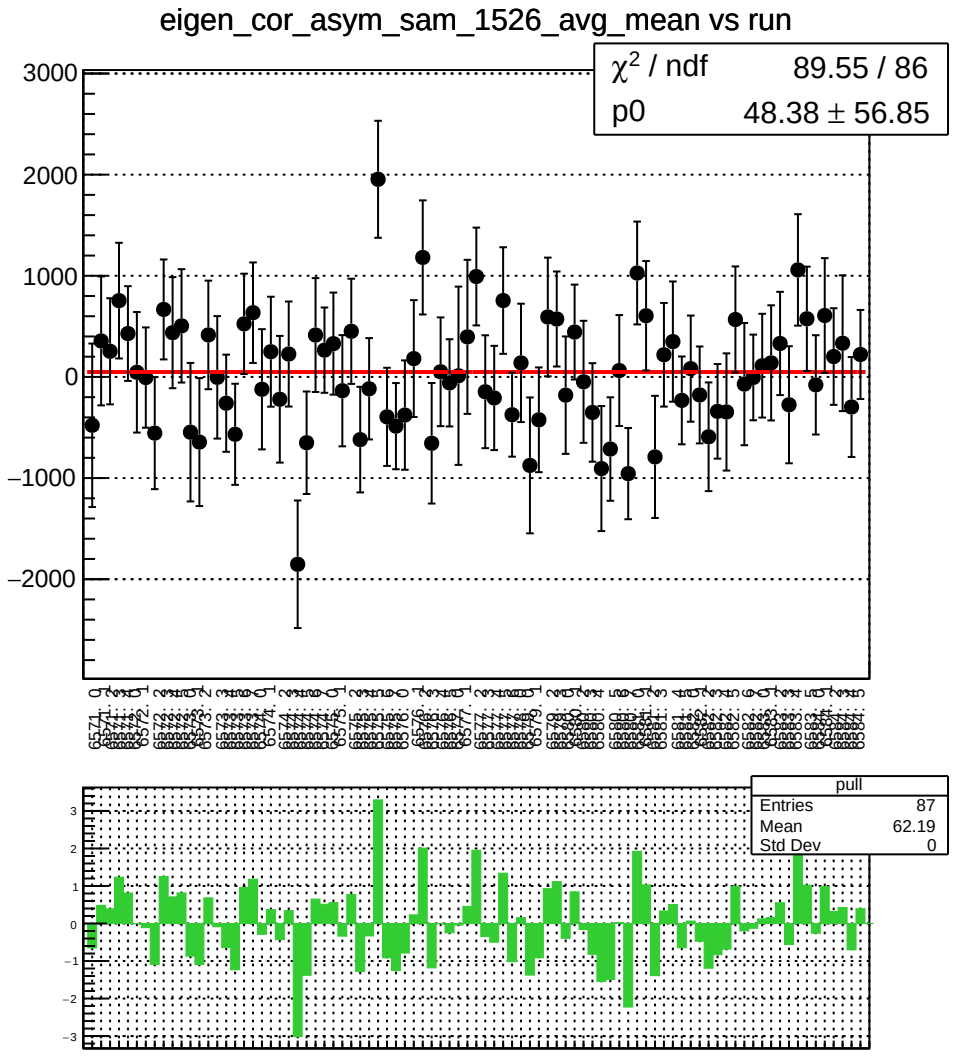
cor_asym_sam_1526_avg_rms vs run

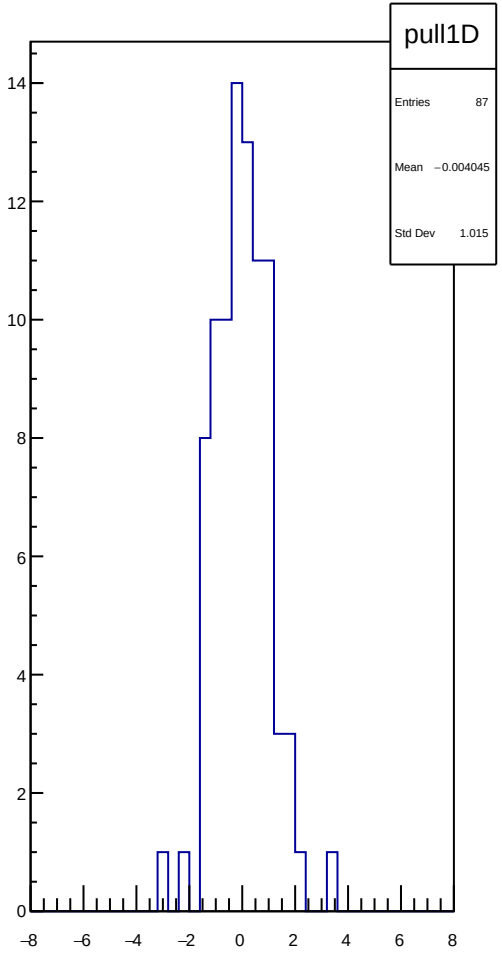


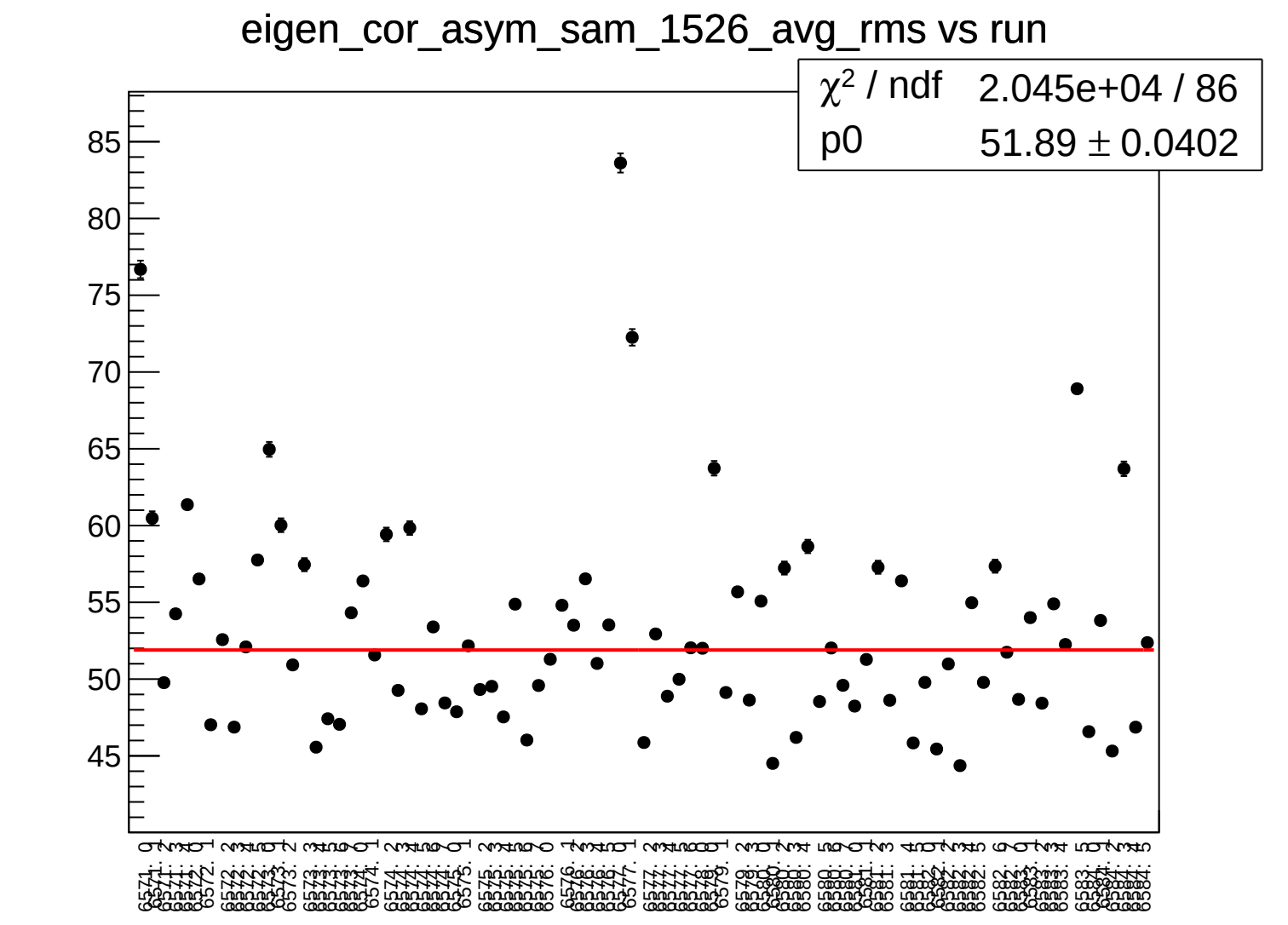

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 113.8 / 86
p0 −522.3 ± 295.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 1846
Std Dev 0
3
2
1
0
−1
−2
−3

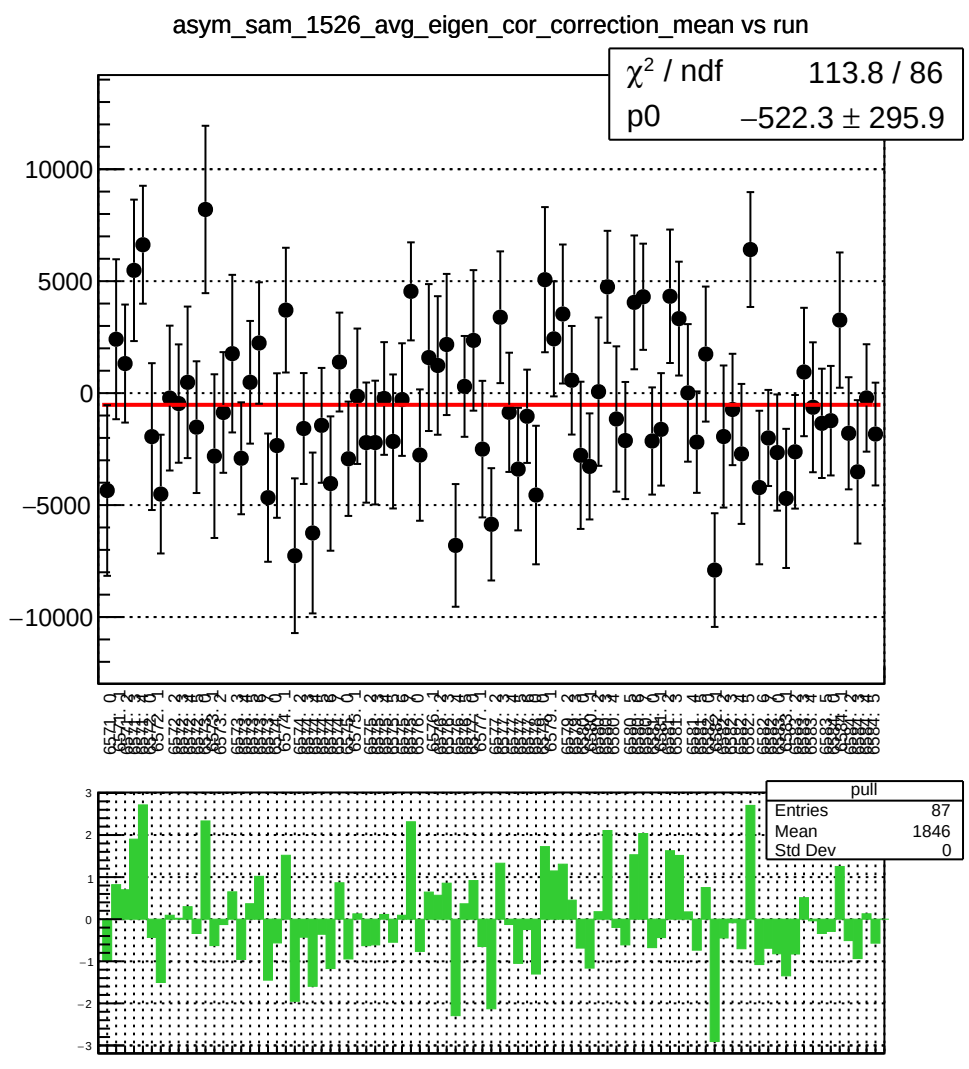

pull1D
Entries 87
Mean −0.001111
Std Dev 1.144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

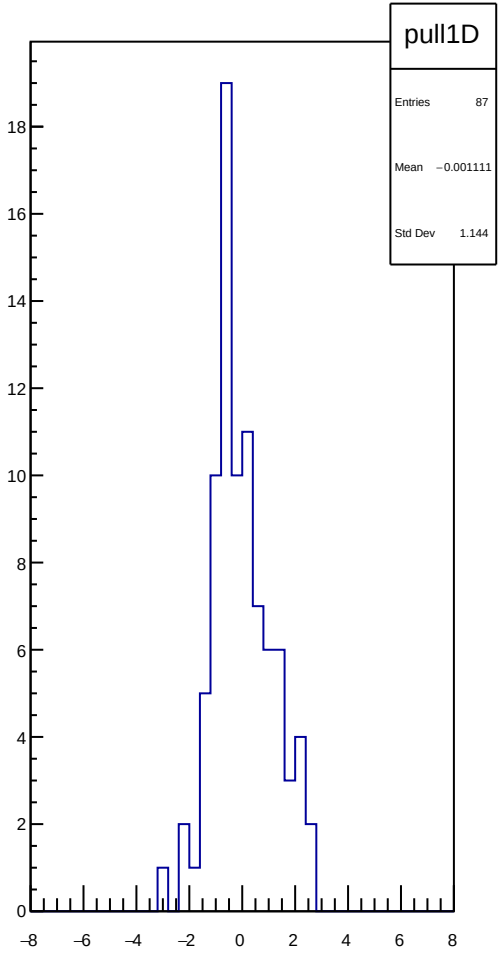

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 2.355e+04 / 86
p0 269.8 ± 0.2092
360
340
320
300
280
260
240
220

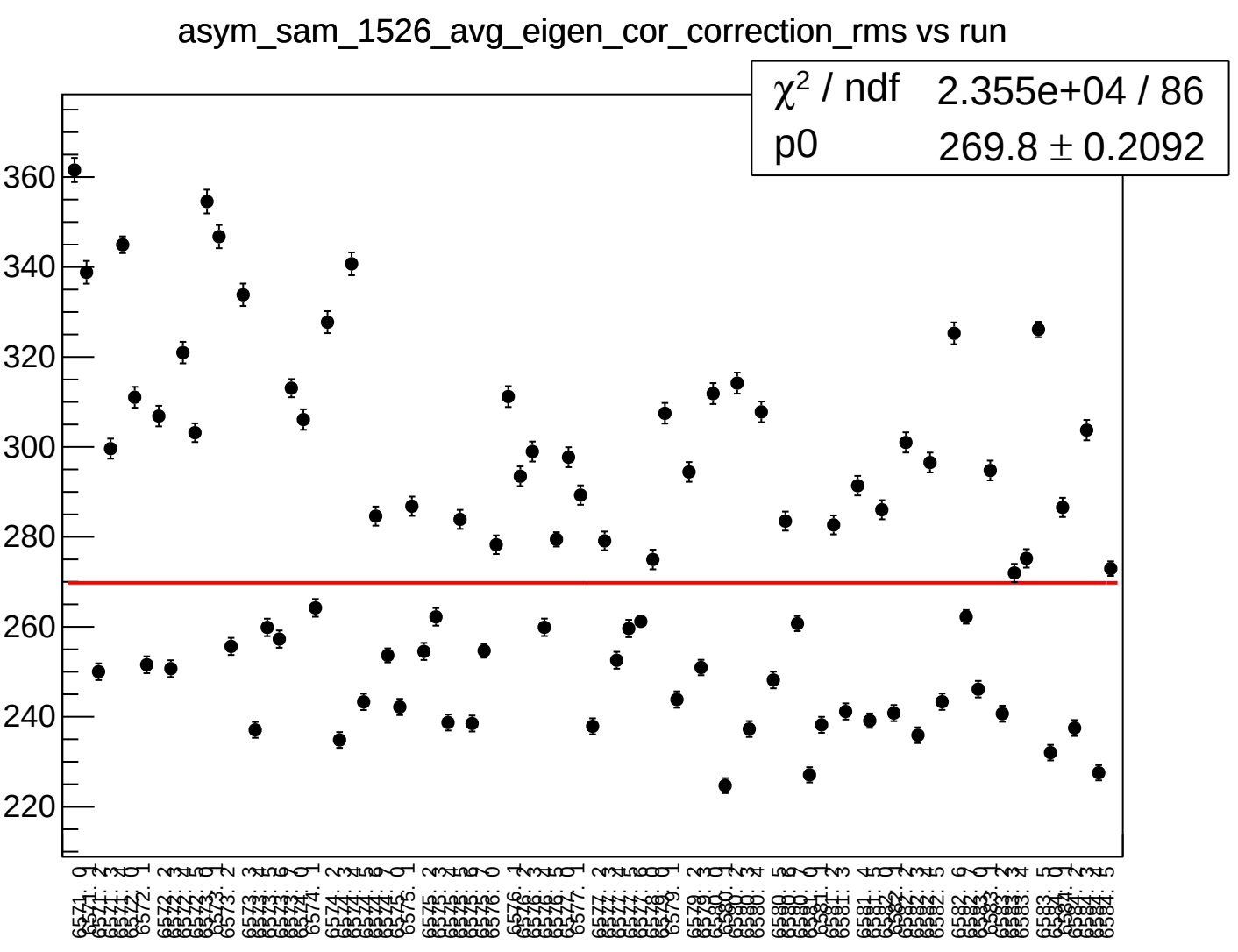

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 89.55 / 86
p0 48.38 ± 56.85
pull
Entries 87
Mean 62.19
Std Dev 0

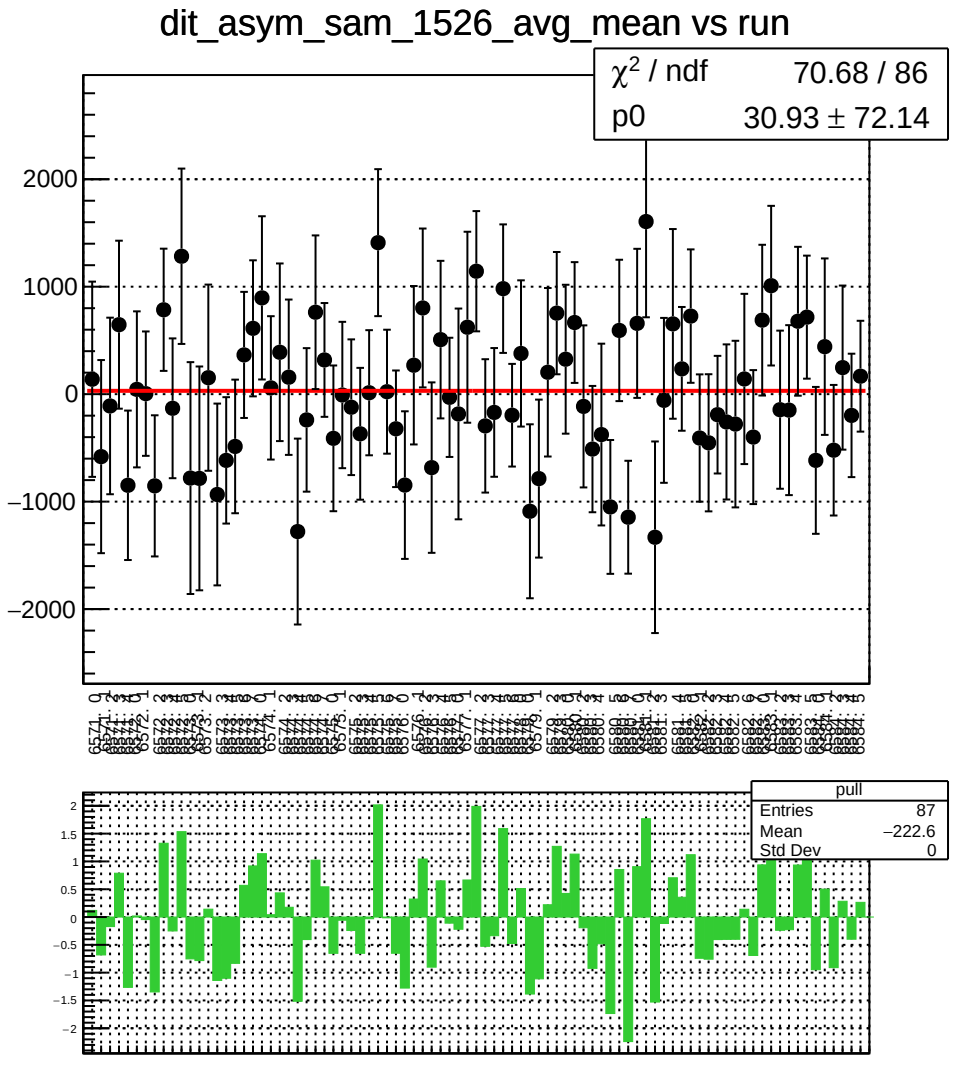

pull1D
Entries 87
Mean −0.004045
Std Dev 1.015

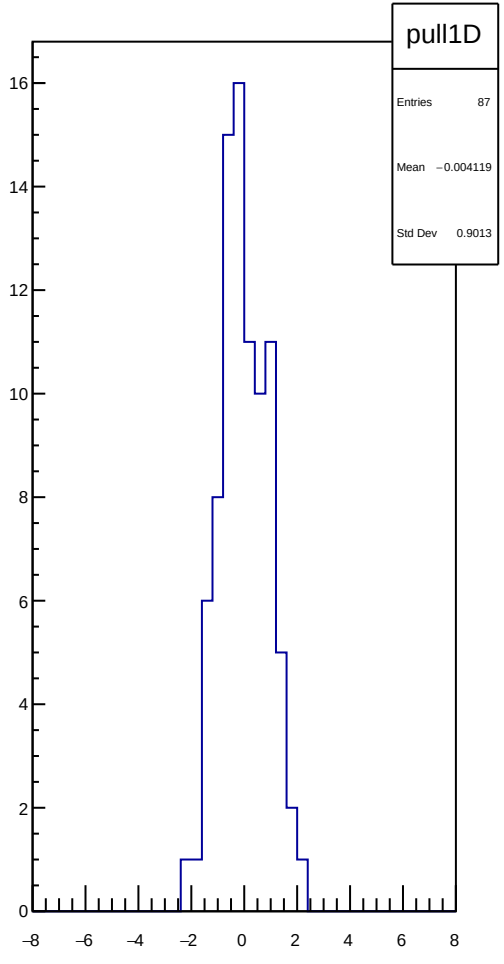

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2.045e+04 / 86
p0 51.89 ± 0.0402
85
80
75
70
65
60
55
50
45

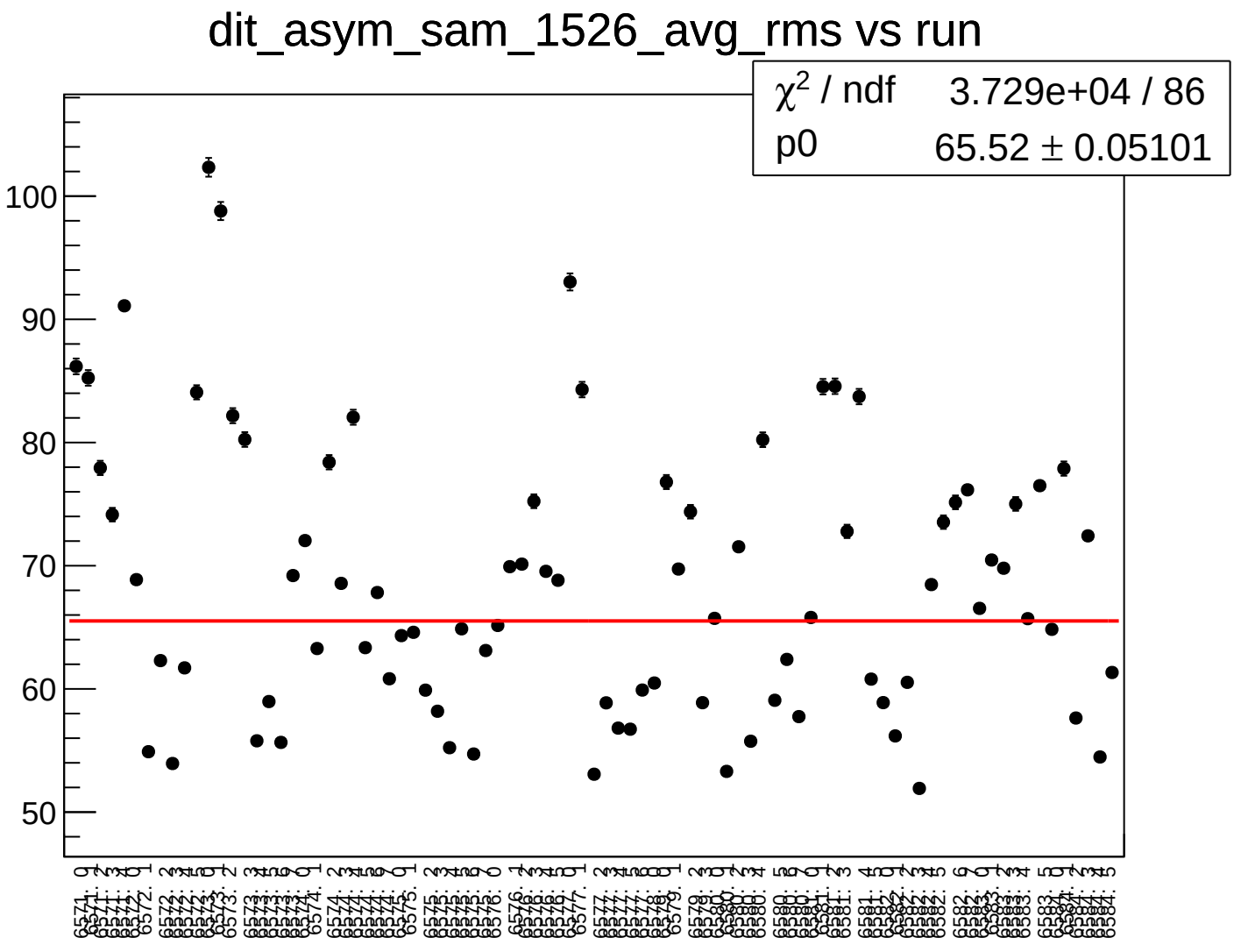

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 113.8 / 86
p0 −522.3 ± 295.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 1846
Std Dev 0
3
2
1
0
−1
−2
−3

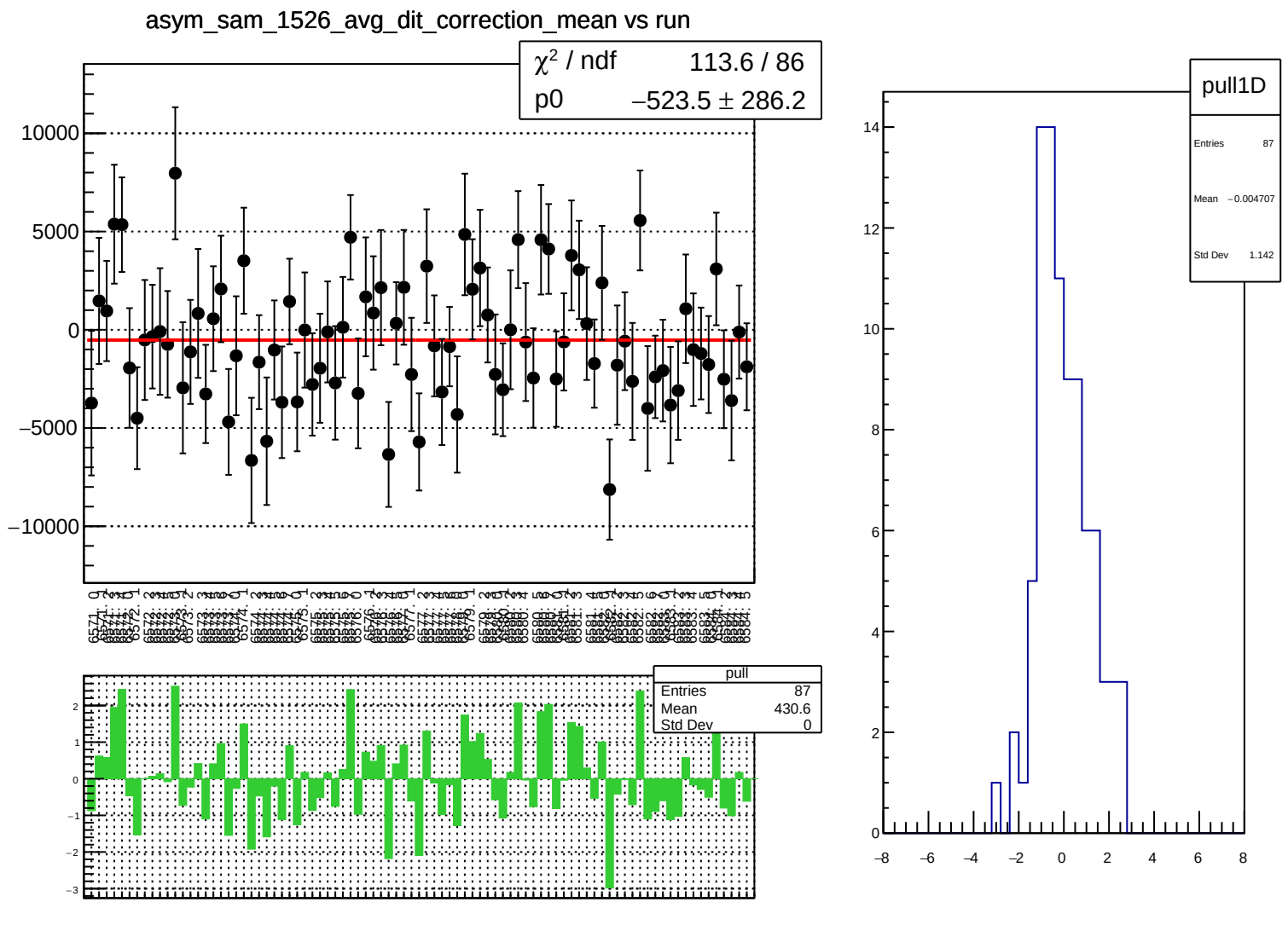

pull1D
Entries 87
Mean −0.001111
Std Dev 1.144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

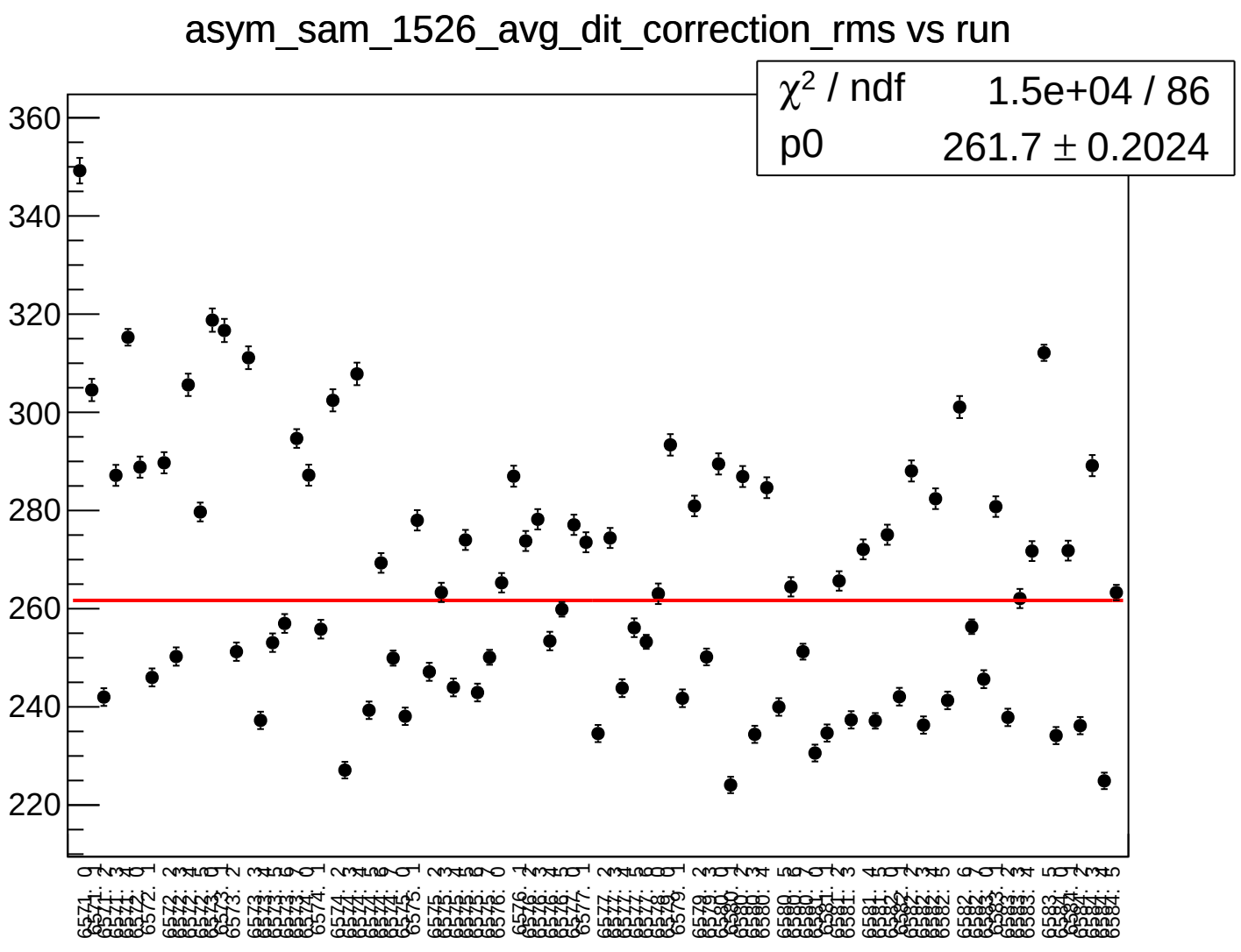

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.355e+04 / 86
p0 269.8 ± 0.2092
360
340
320
300
280
260
240
220

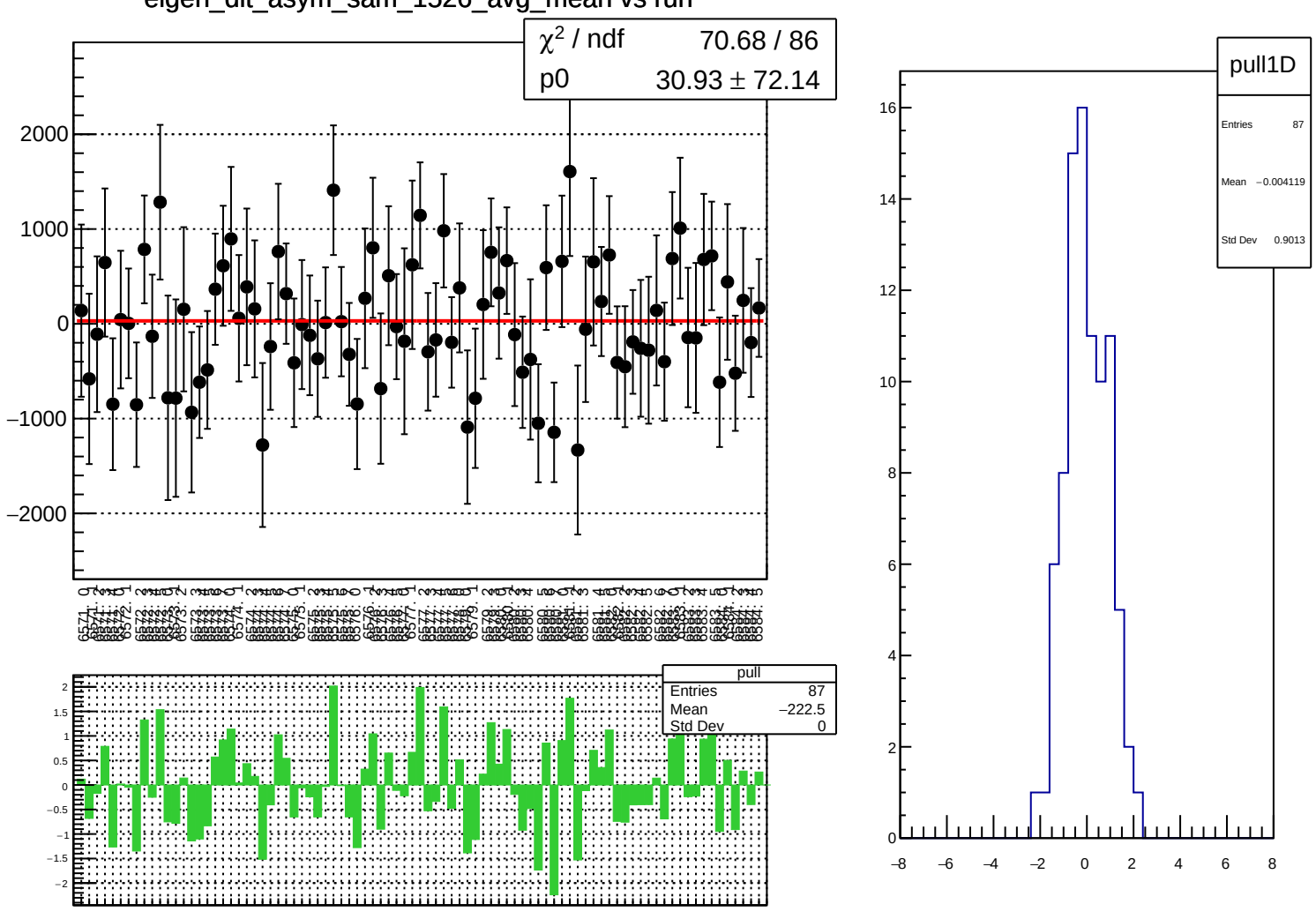

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 70.68 / 86
p0 30.93 ± 72.14
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −222.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

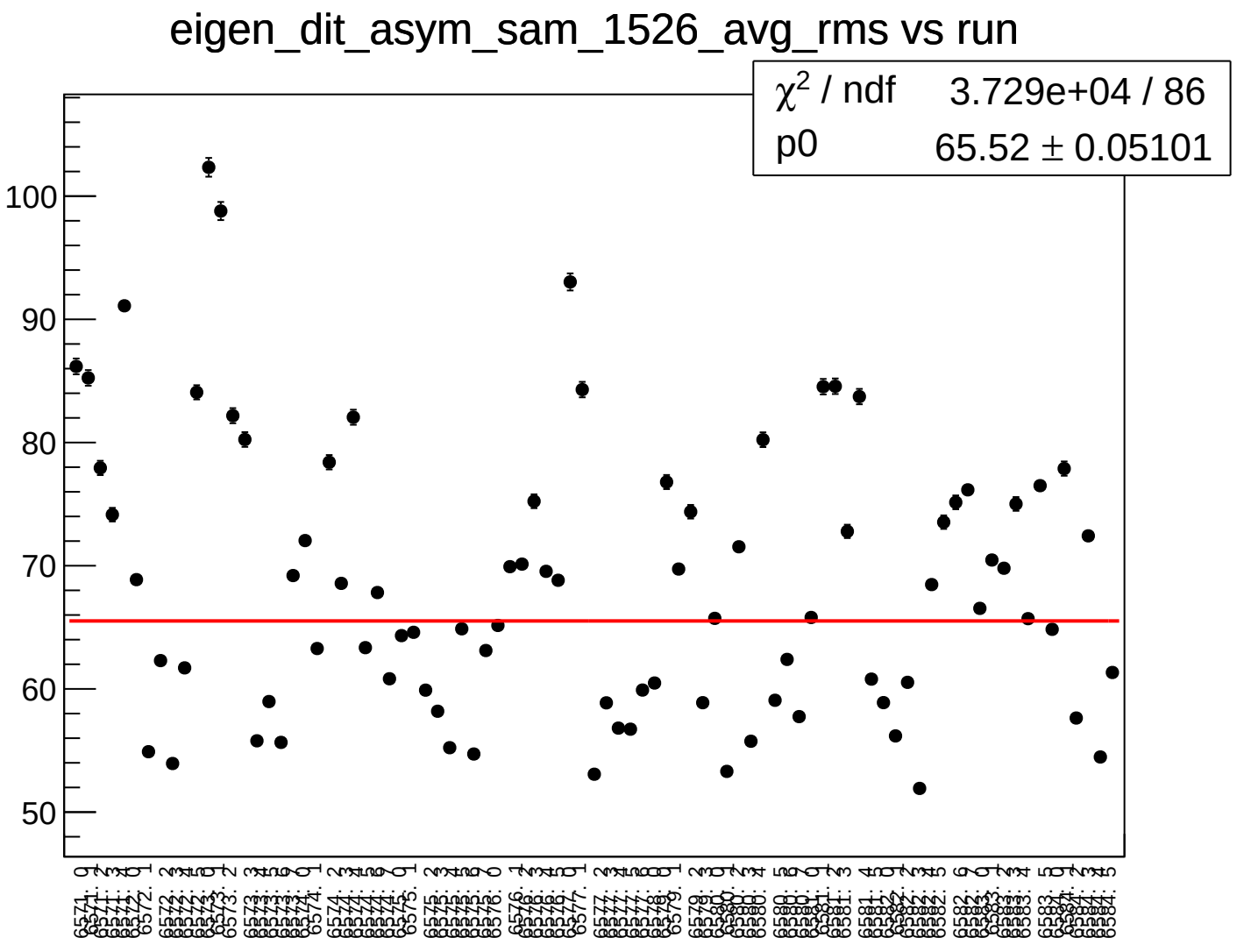

pull1D
Entries 87
Mean −0.004119
Std Dev 0.9013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

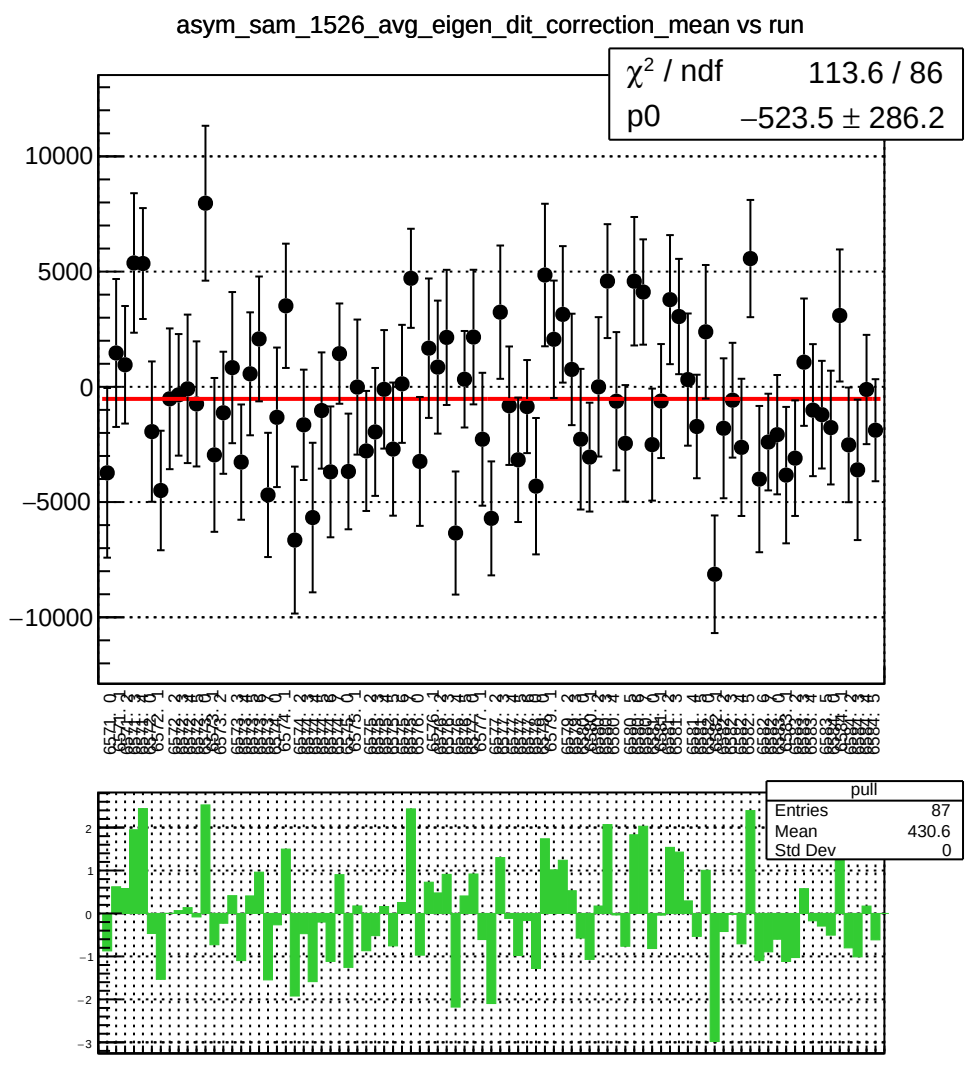

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 3.729e+04 / 86
p0 65.52 ± 0.05101
100
90
80
70
60
50

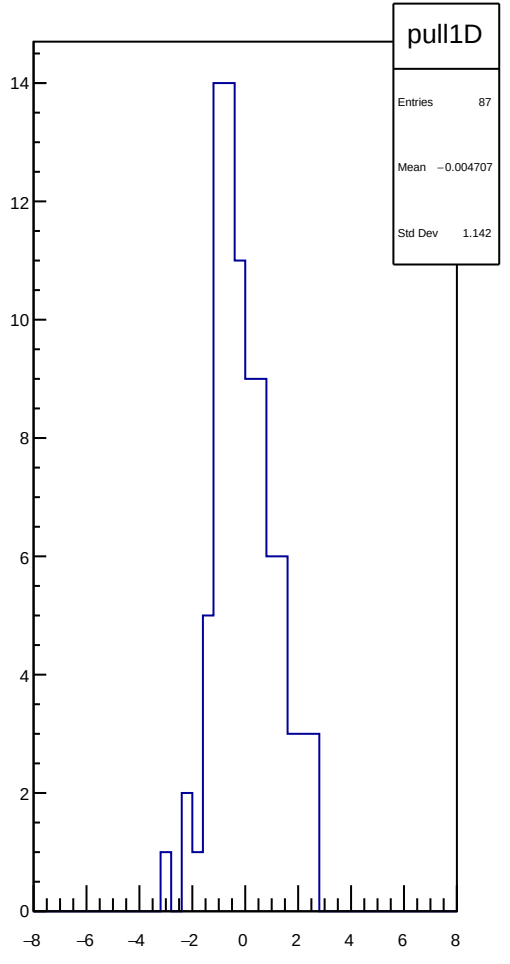

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 113.6 / 86
p0 −523.5 ± 286.2
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 430.6
Std Dev 0
pull1D
Entries 87
Mean −0.004707
Std Dev 1.142

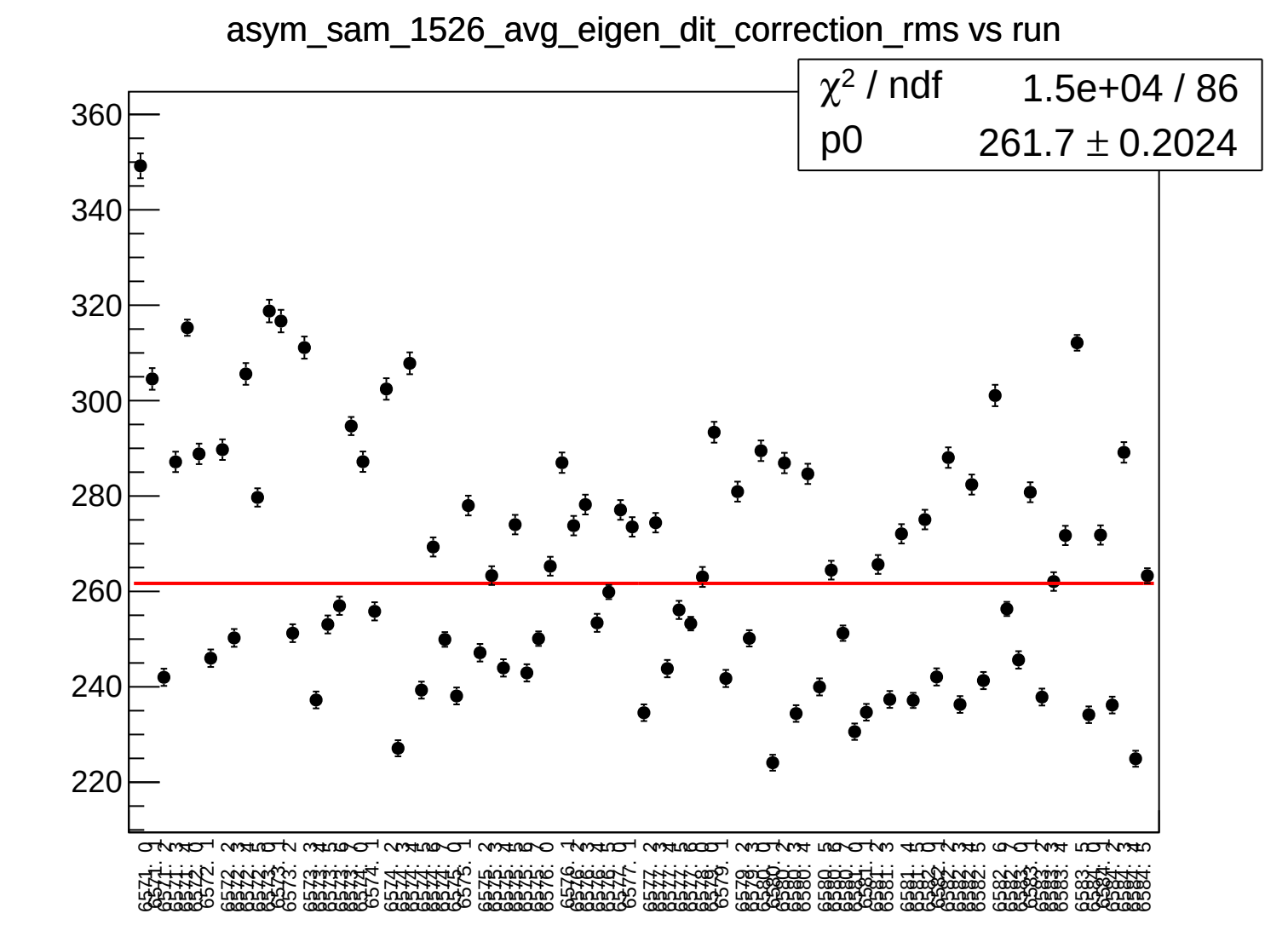

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.5e+04 / 86
p0 261.7 ± 0.2024
360
340
320
300
280
260
240
220

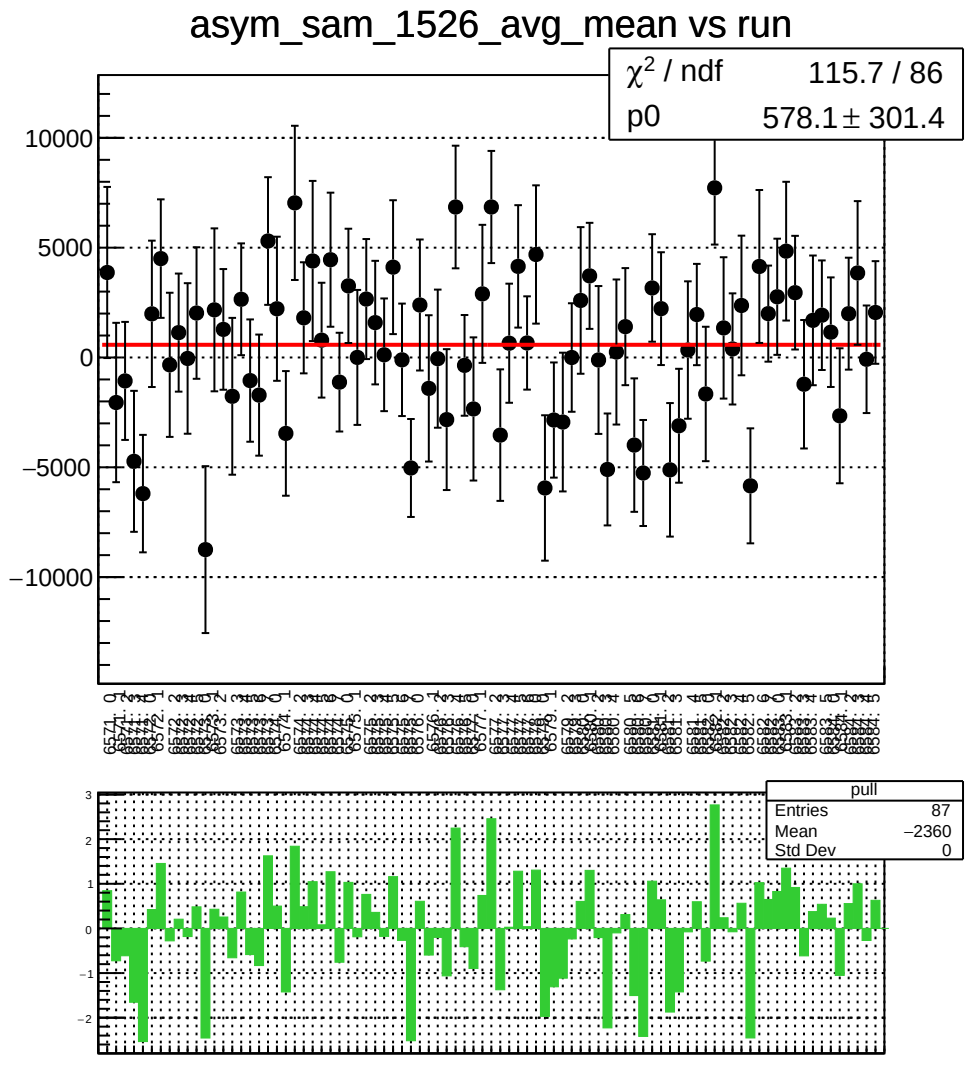

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 70.68 / 86
p0 30.93 ± 72.14
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −222.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.004119
Std Dev 0.9013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

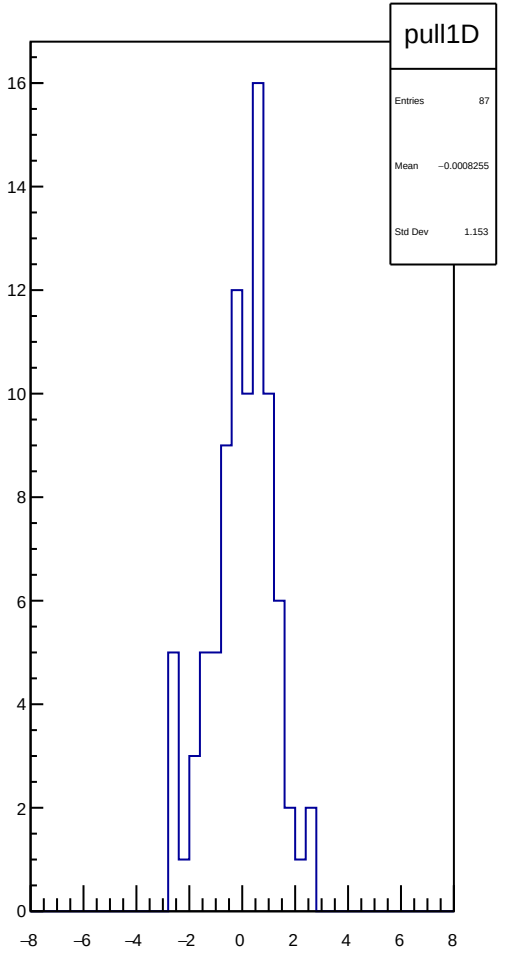

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.729e+04 / 86
p0 65.52 ± 0.05101
100
90
80
70
60
50

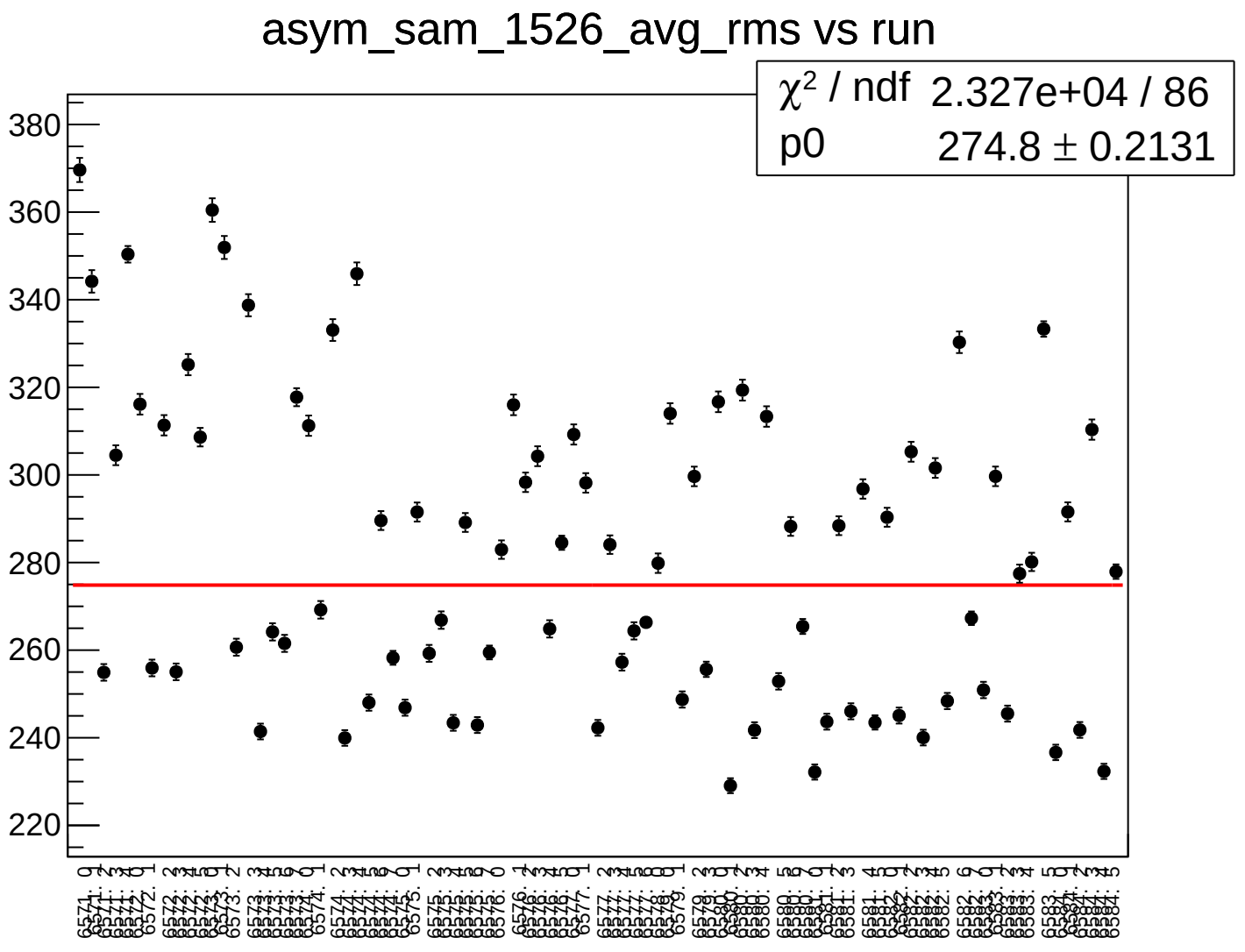

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 113.6 / 86
p0 −523.5 ± 286.2
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 430.6
Std Dev 0
2
1
0
−1
−2
−3

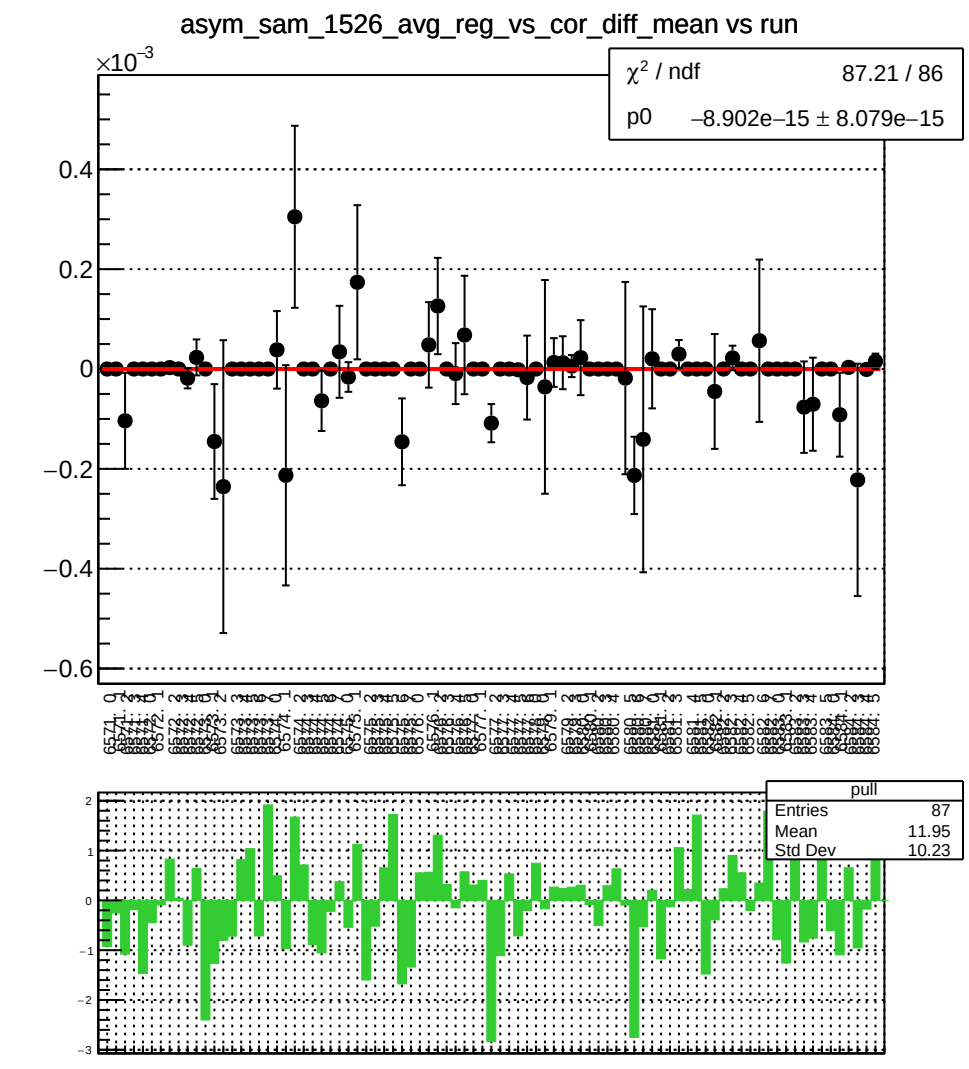

pull1D
Entries 87
Mean −0.004707
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

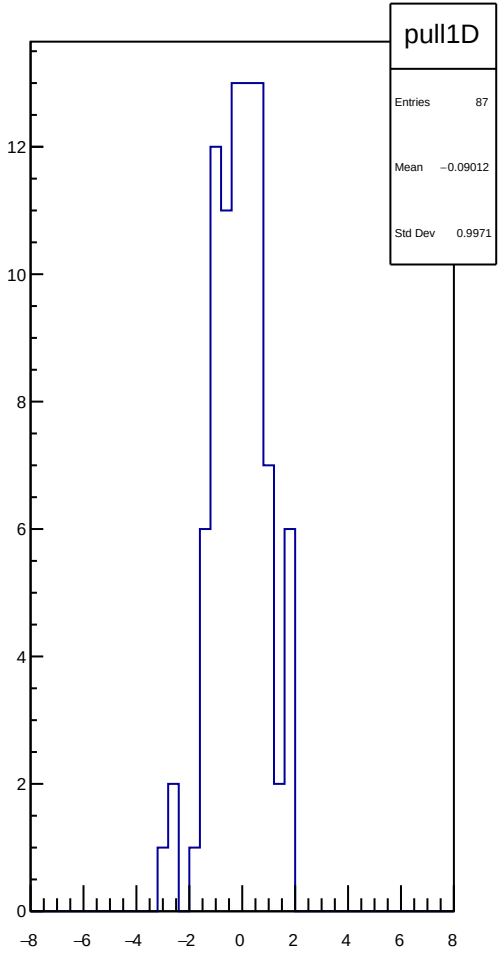

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.5e+04 / 86
p0 261.7 ± 0.2024
360
340
320
300
280
260
240
220

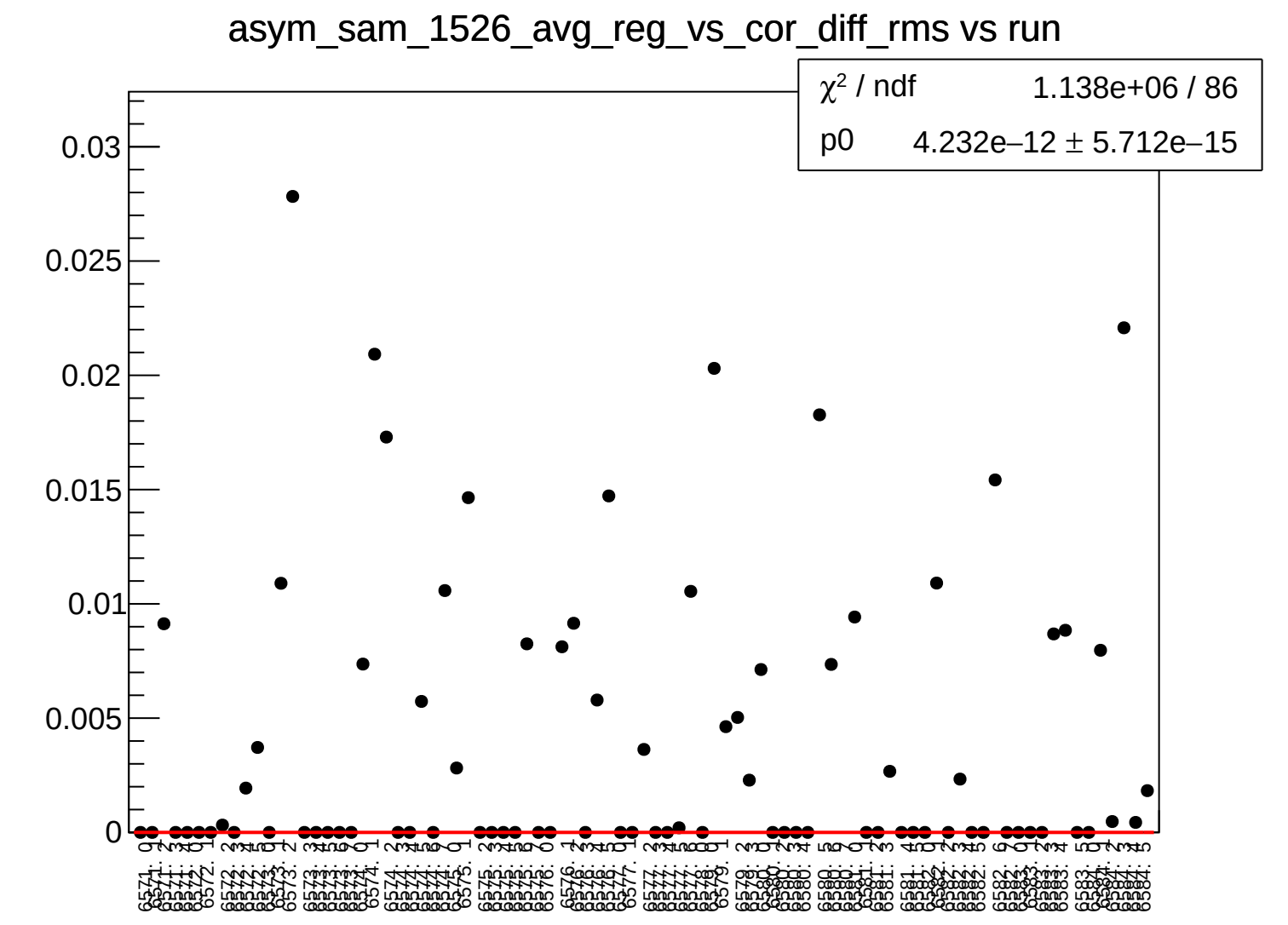

asym_sam_1526_avg_mean vs run
χ² / ndf 115.7 / 86
p0 578.1 ± 301.4
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −2360
Std Dev 0
3
2
1
0
−1
−2

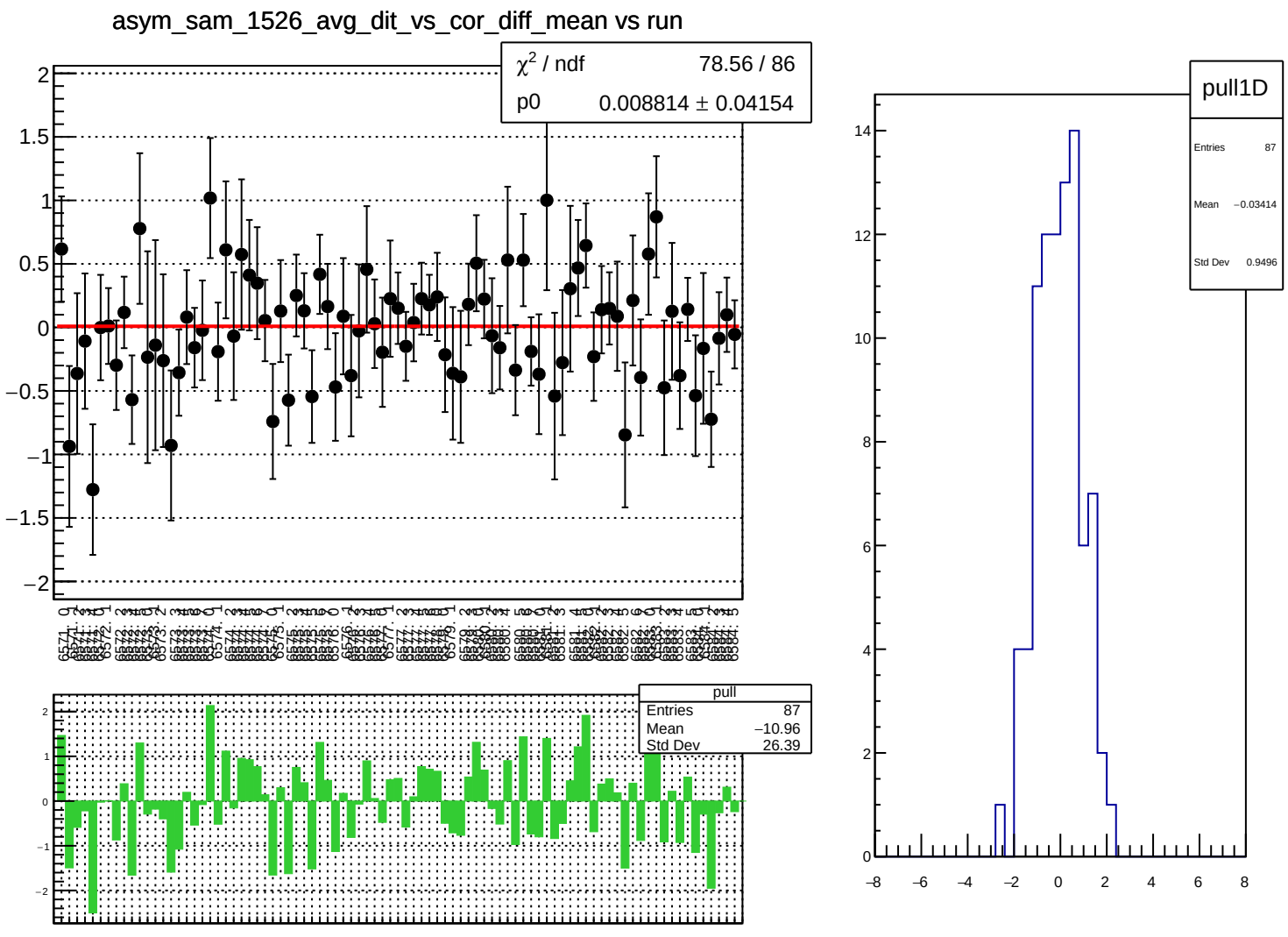

pull1D
Entries 87
Mean −0.0008255
Std Dev 1.153
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

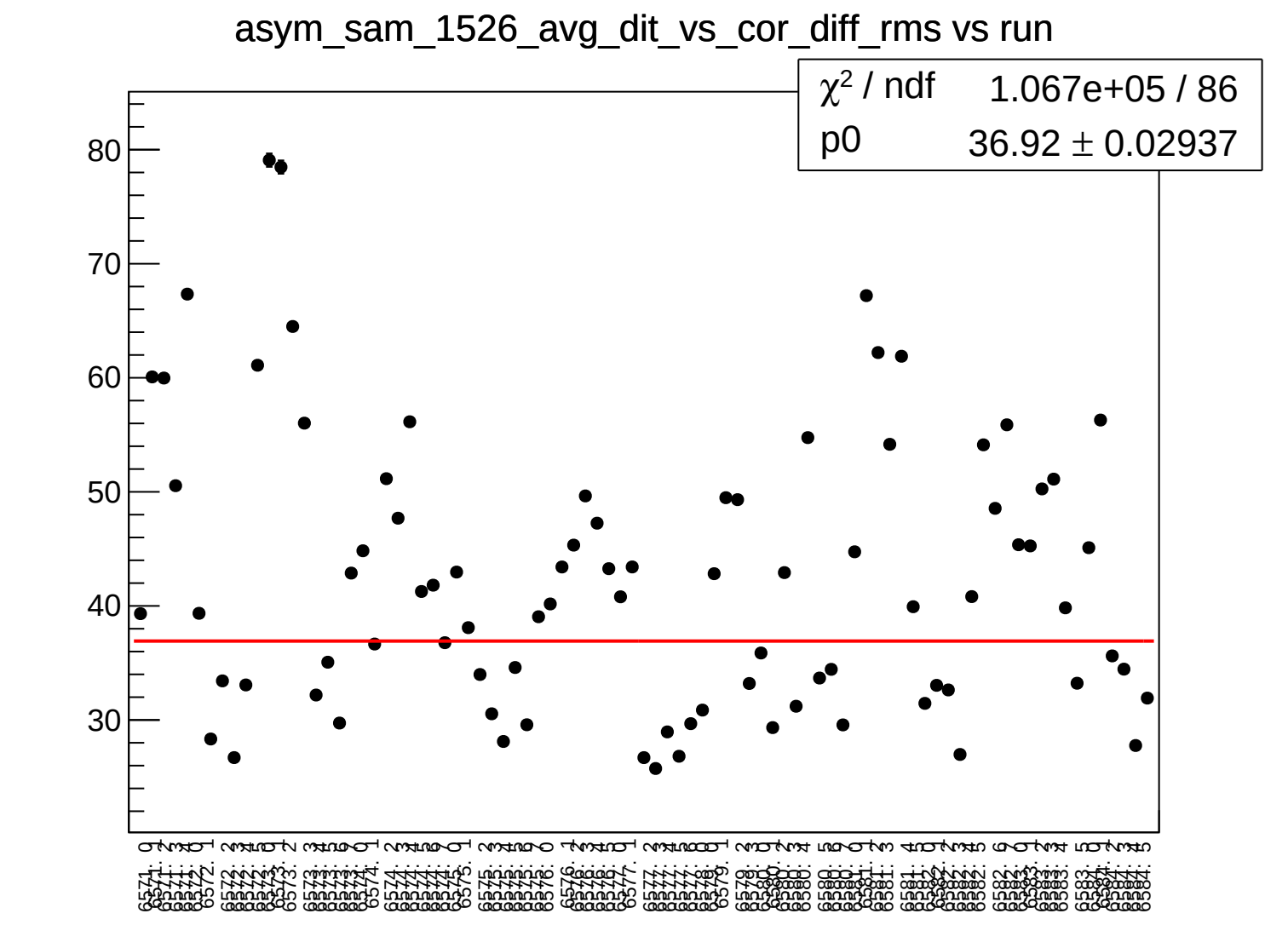

asym_sam_1526_avg_rms vs run
χ² / ndf 2.327e+04 / 86
p0 274.8 ± 0.2131
380
360
340
320
300
280
260
240
220

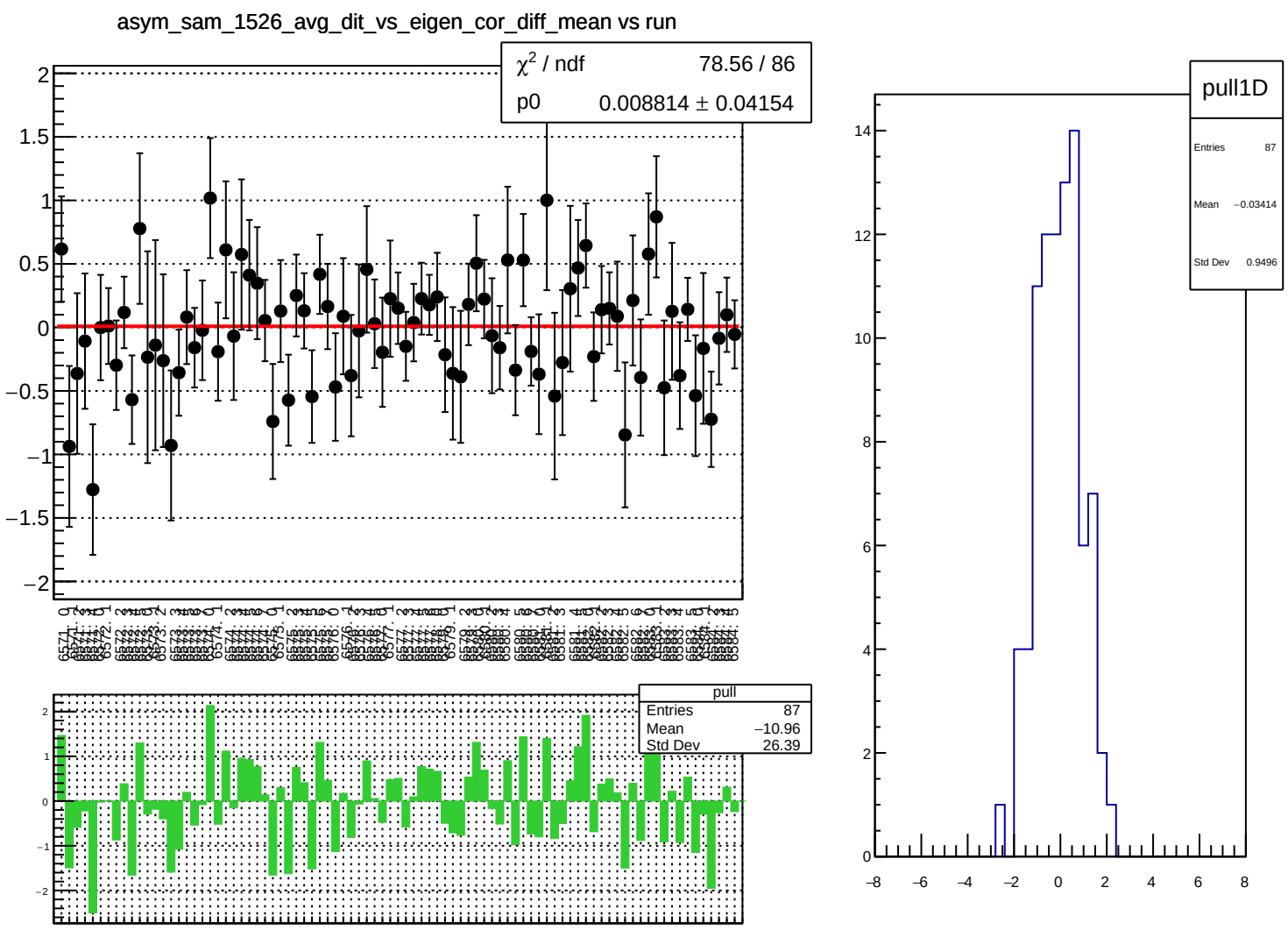

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 87.21 / 86
p0 −8.902e−15 ± 8.079e−15
pull
Entries 87
Mean 11.95
Std Dev 10.23

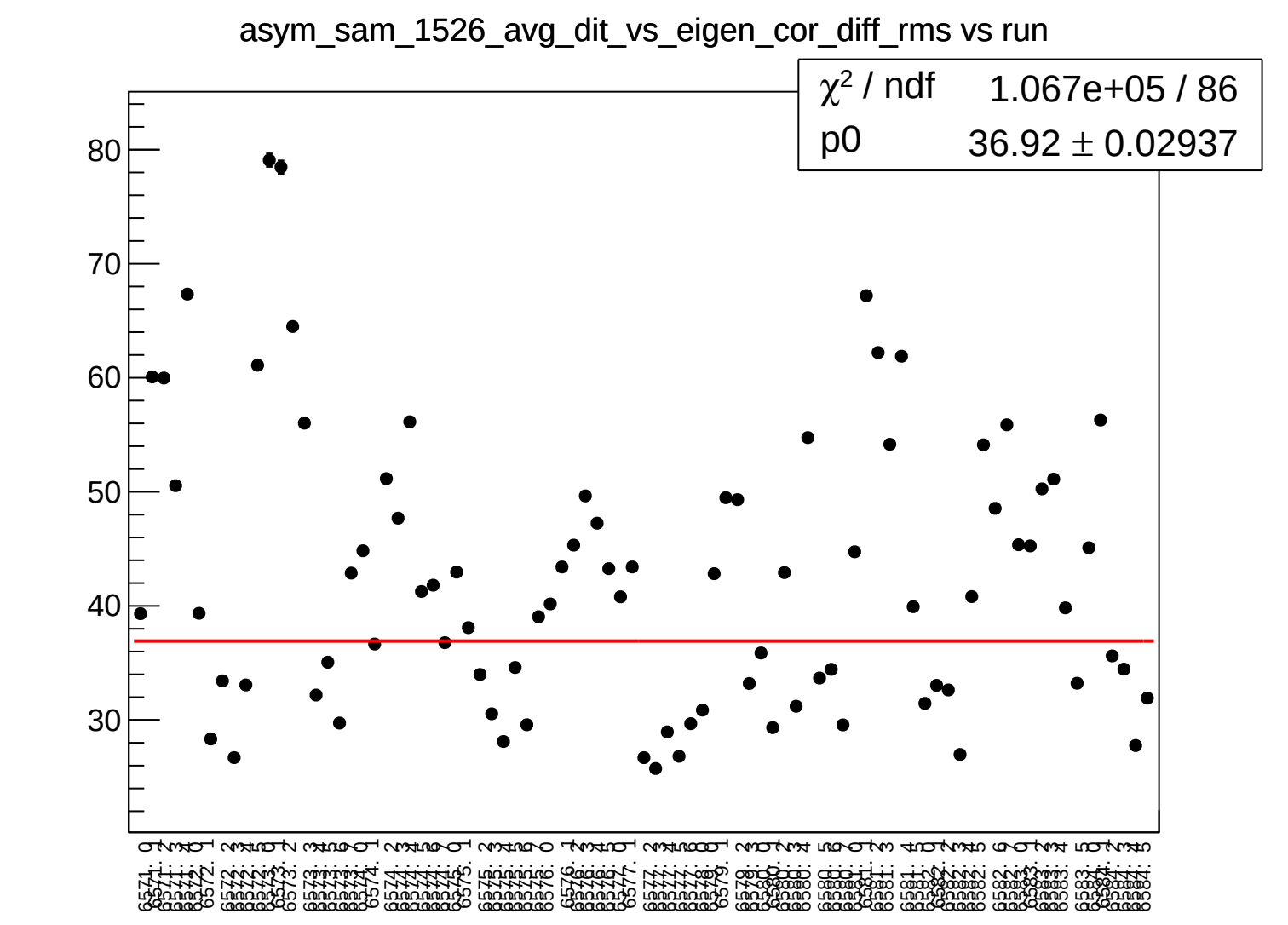

pull1D
Entries 87
Mean −0.09012
Std Dev 0.9971

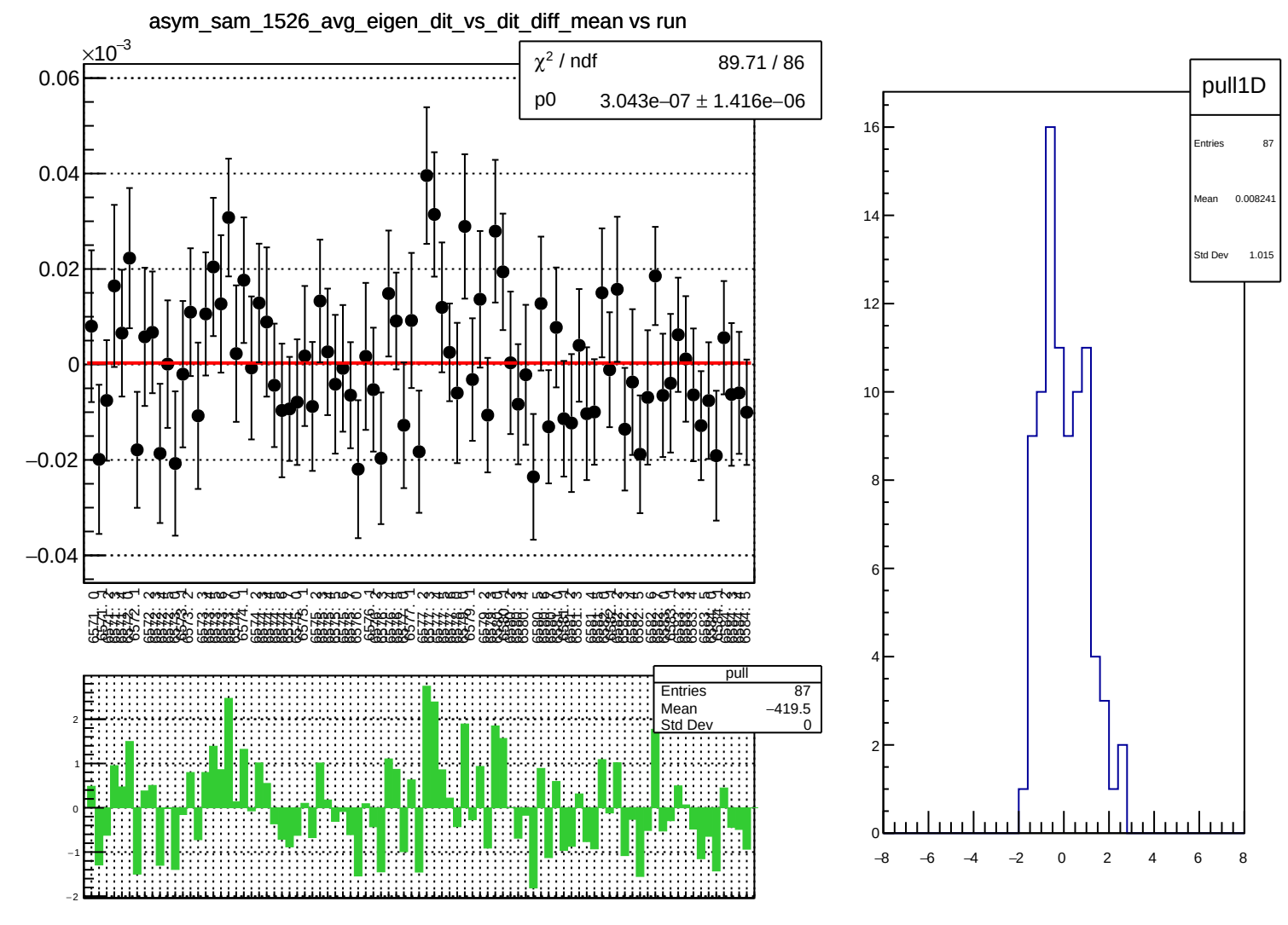

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.138e+06 / 86
p0 4.232e−12 ± 5.712e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

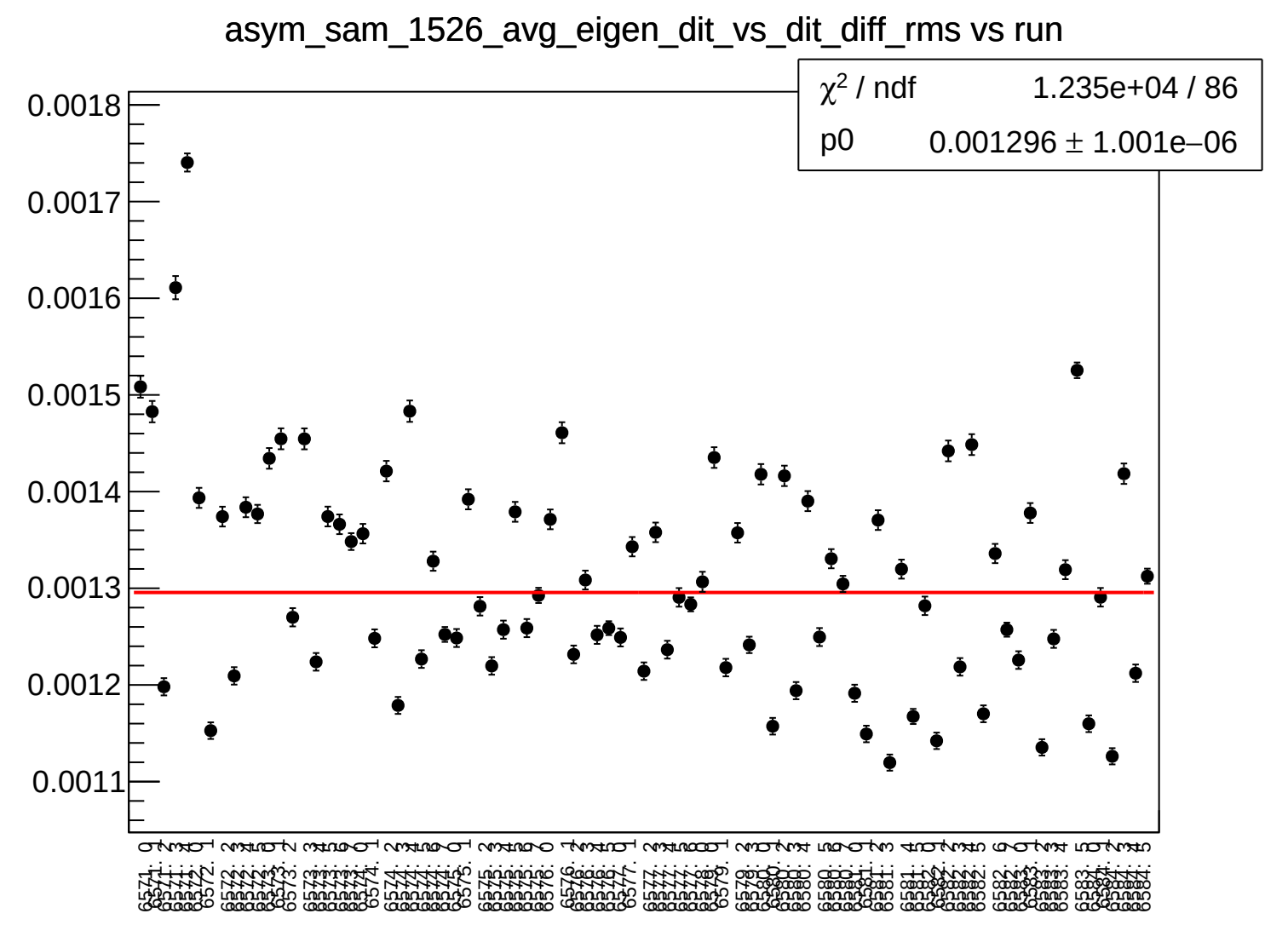

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.56 / 86
p0 0.008814 ± 0.04154
pull
Entries 87
Mean −10.96
Std Dev 26.39
pull1D
Entries 87
Mean −0.03414
Std Dev 0.9496

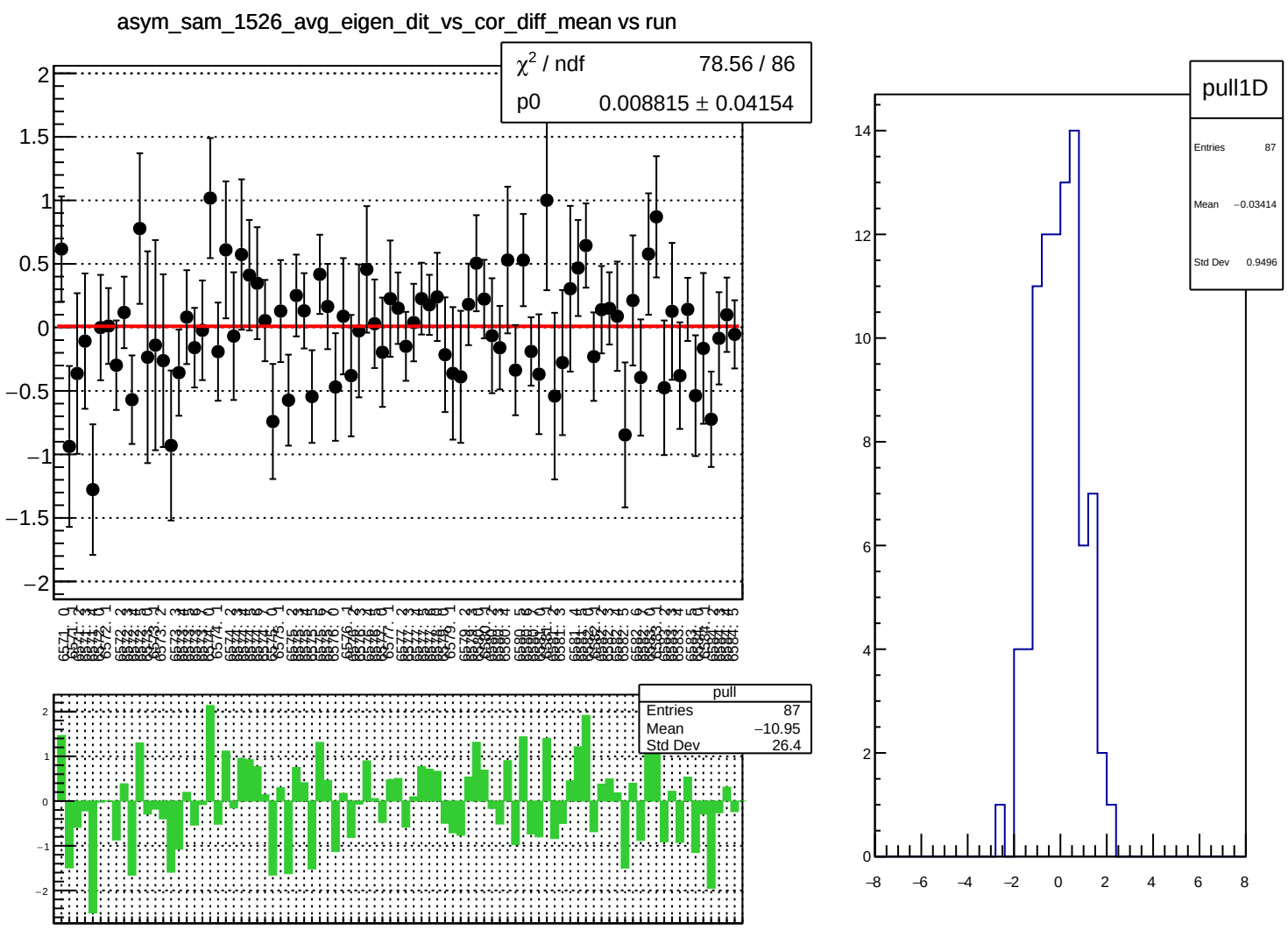

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.067e+05 / 86
p0 36.92 ± 0.02937
80
70
60
50
40
30

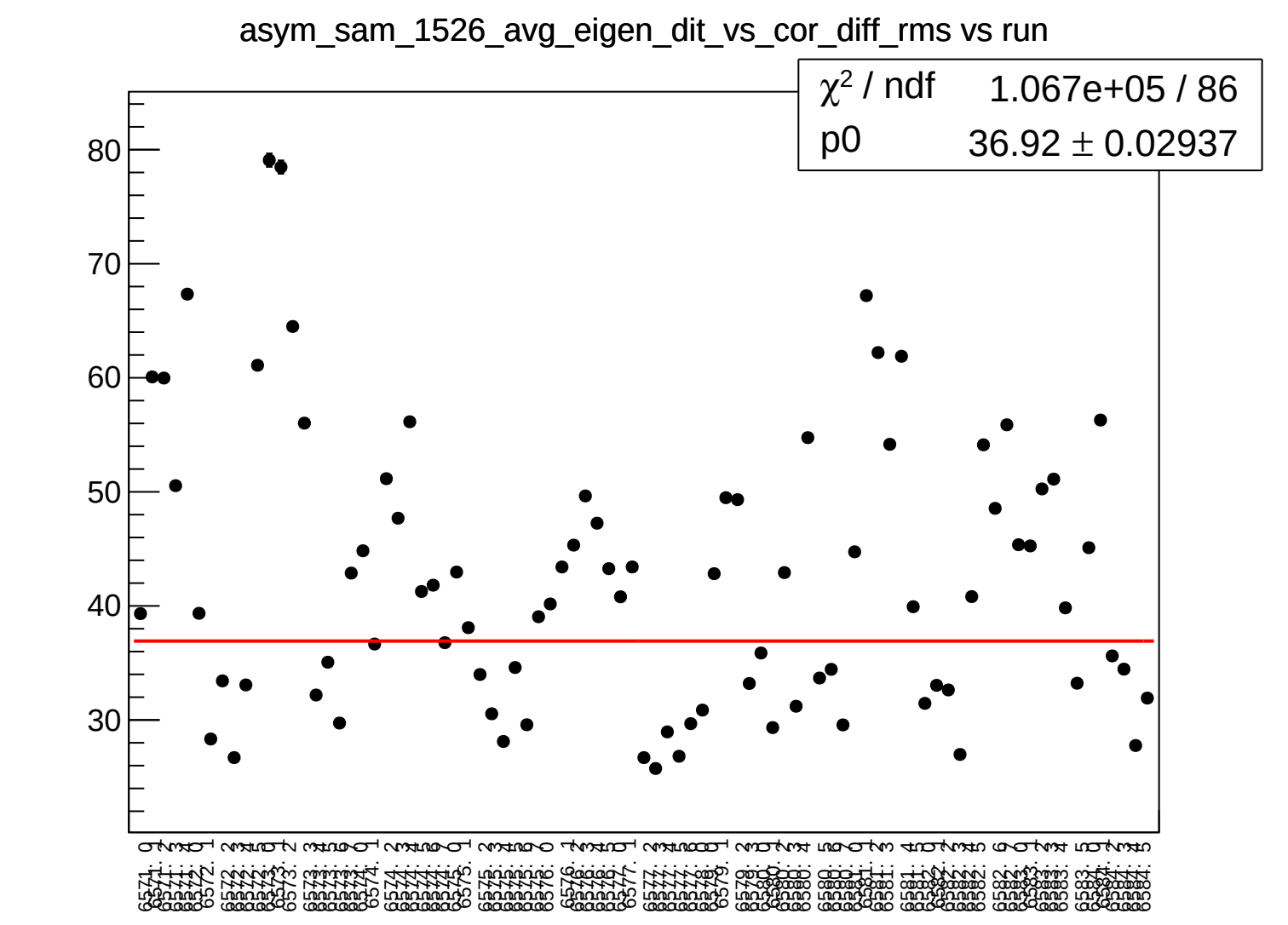

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.56 / 86
p0 0.008814 ± 0.04154
pull
Entries 87
Mean −10.96
Std Dev 26.39
pull1D
Entries 87
Mean −0.03414
Std Dev 0.9496

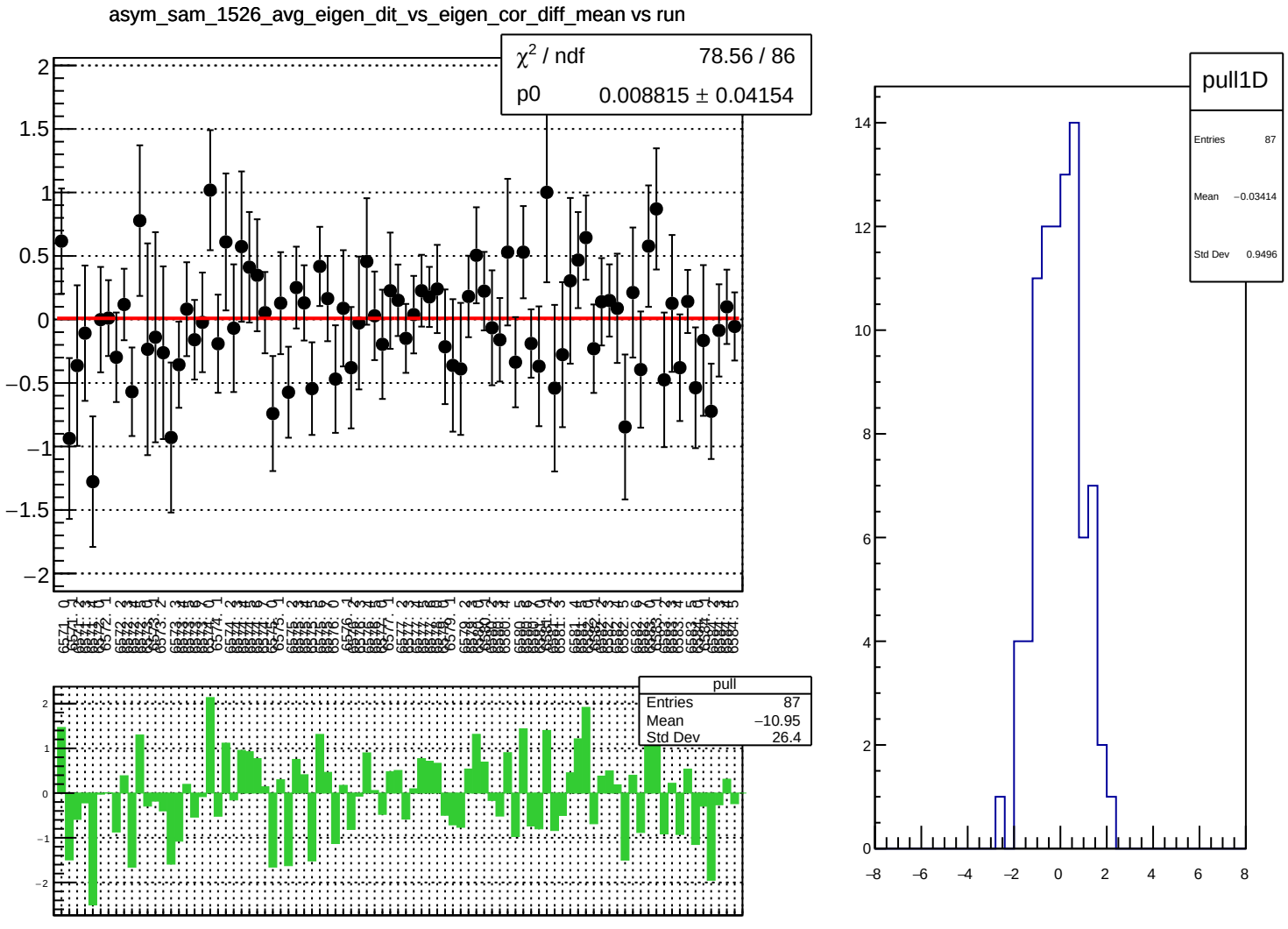

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.067e+05 / 86
p0 36.92 ± 0.02937
80
70
60
50
40
30

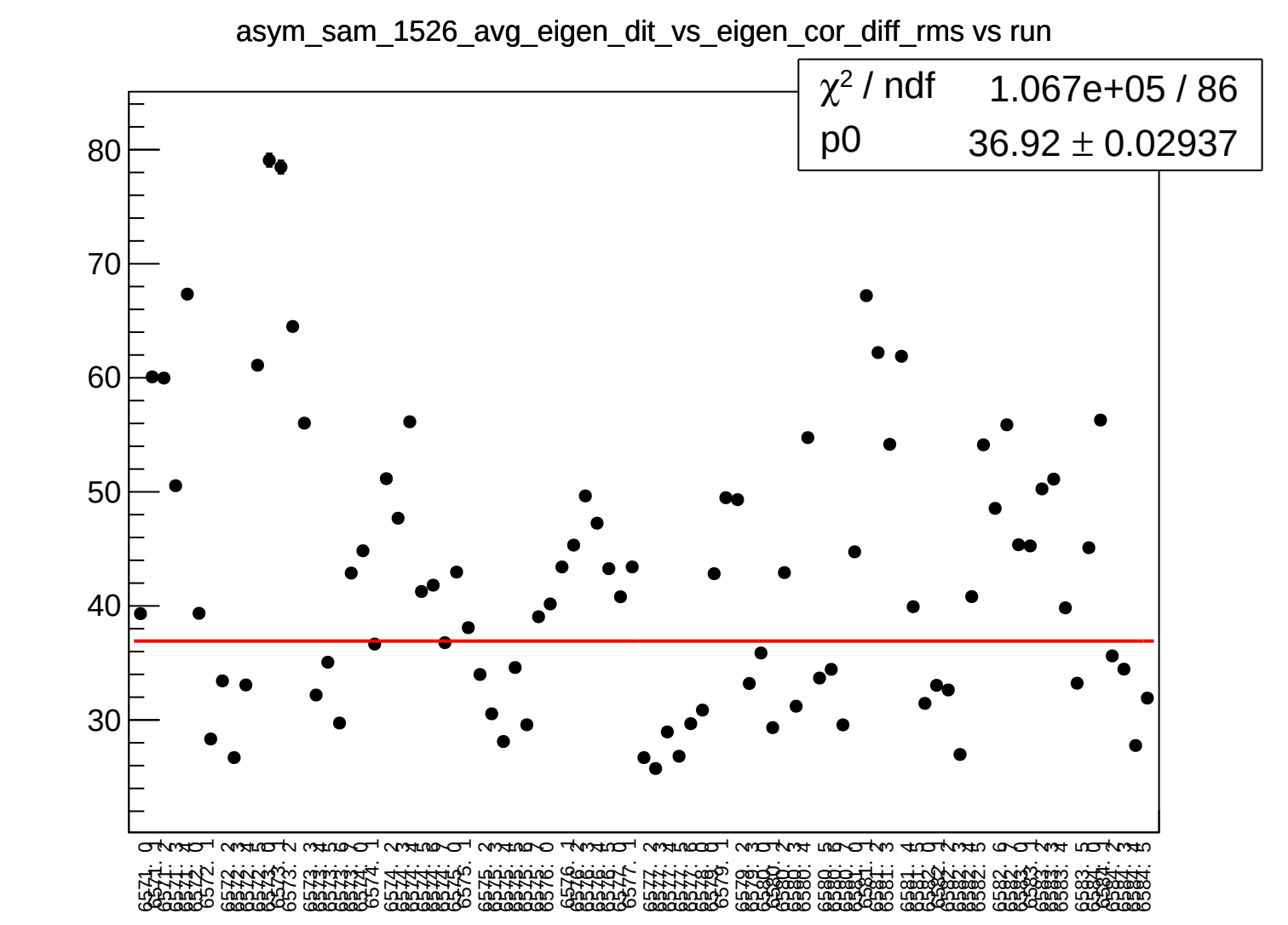

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.71 / 86
p0 3.043e−07 ± 1.416e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 87
Mean −419.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.008241
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

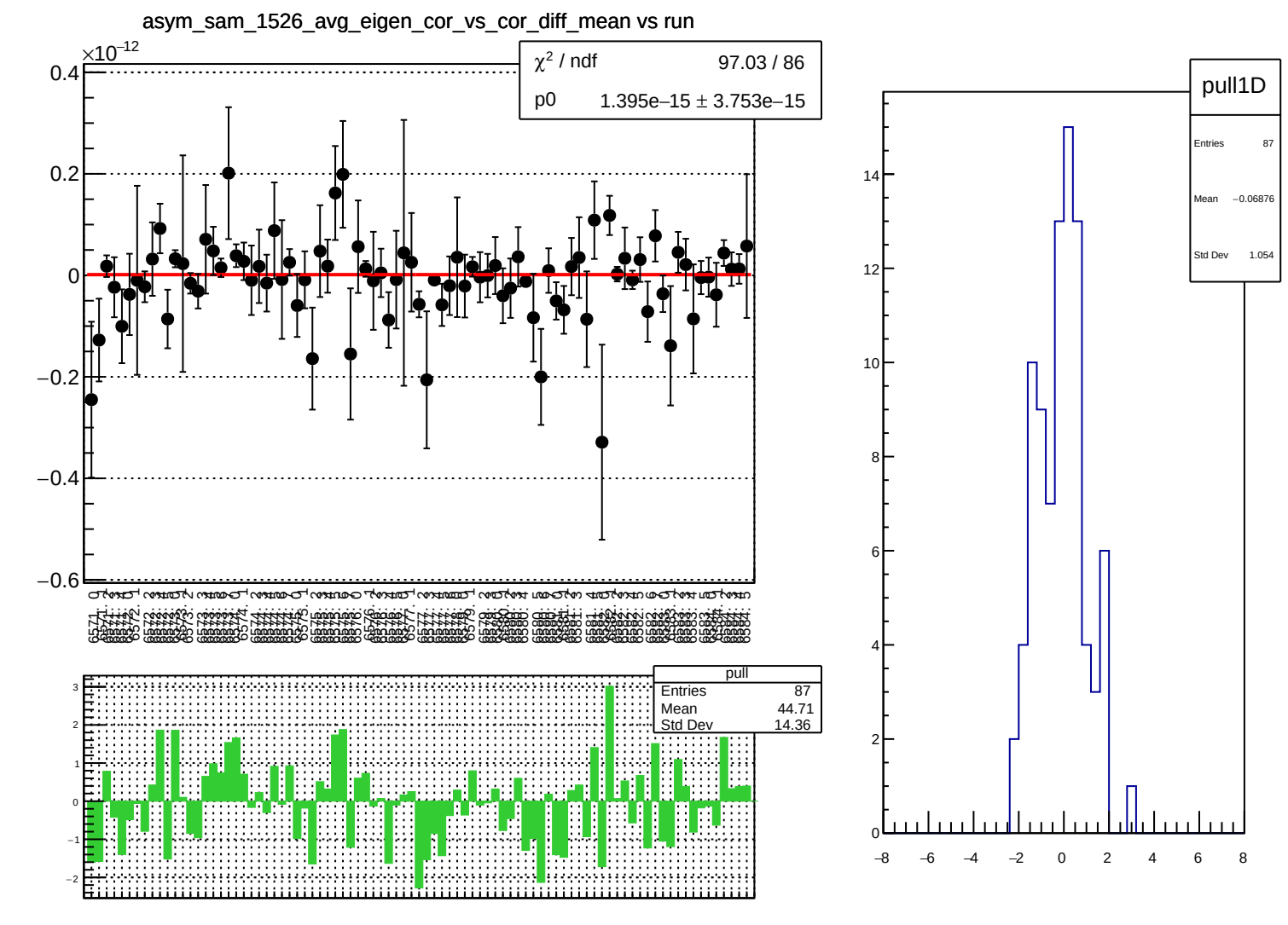

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.235e+04 / 86
p0 0.001296 ± 1.001e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

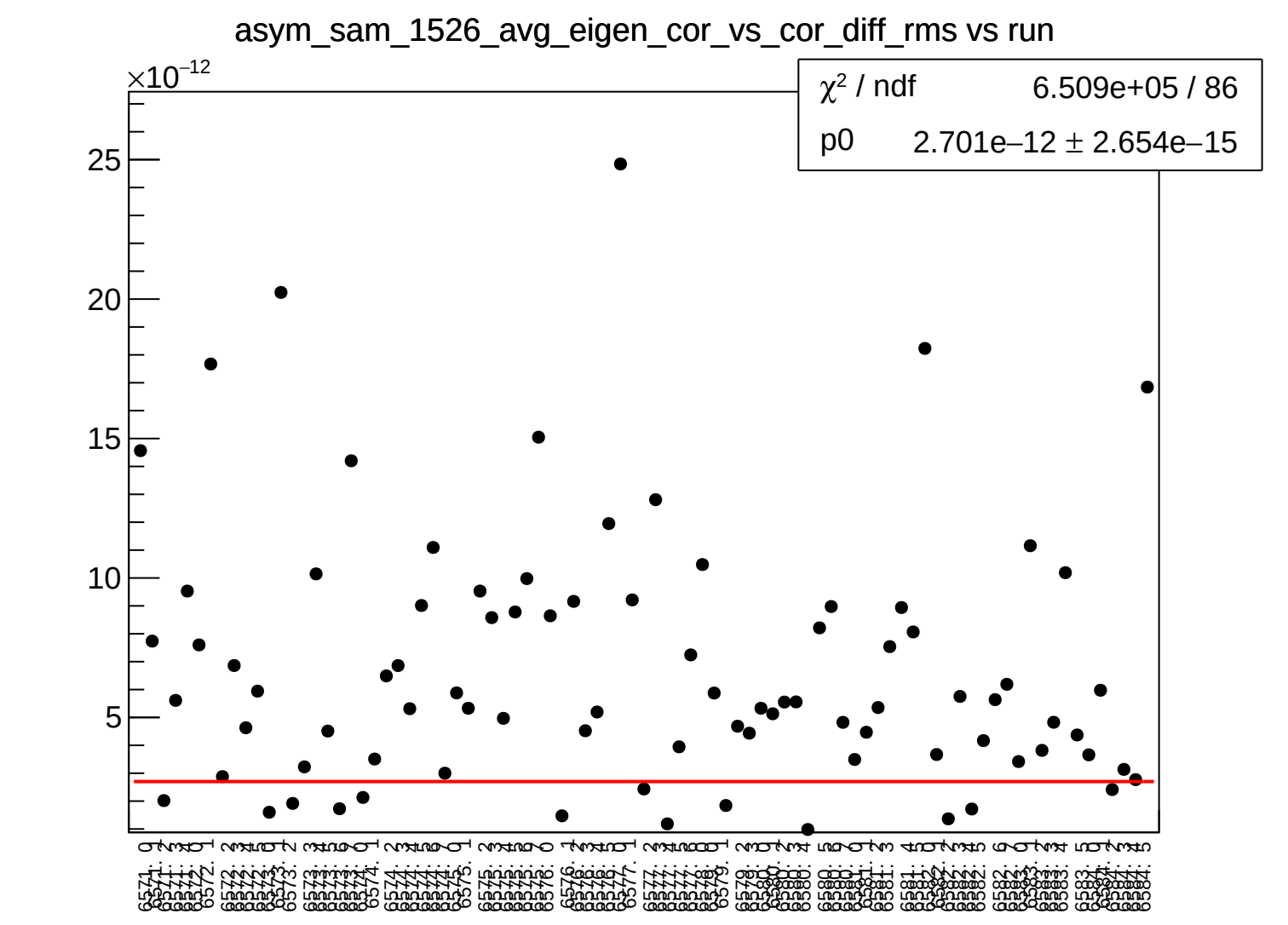

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.56 / 86
p0 0.008815 ± 0.04154
pull
Entries 87
Mean −10.95
Std Dev 26.4
pull1D
Entries 87
Mean −0.03414
Std Dev 0.9496

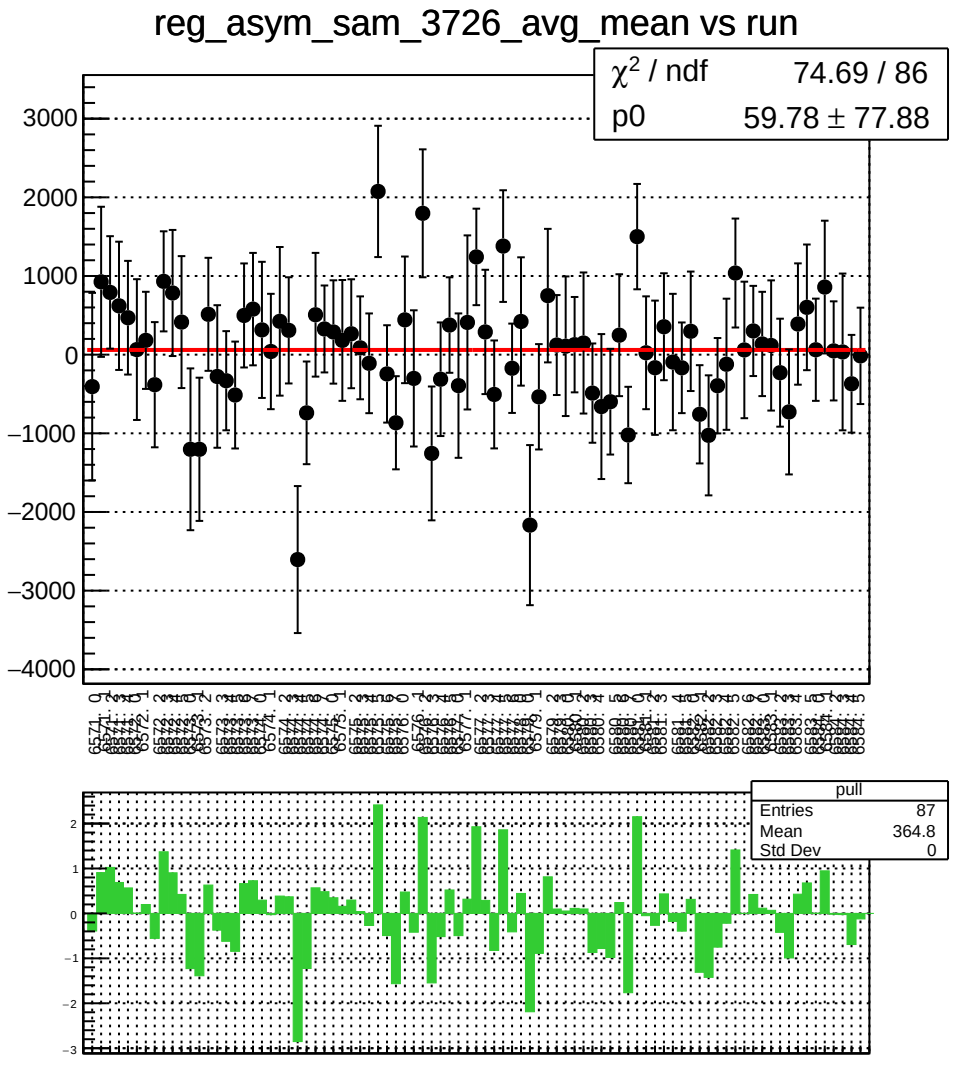

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.067e+05 / 86
p0 36.92 ± 0.02937
80
70
60
50
40
30

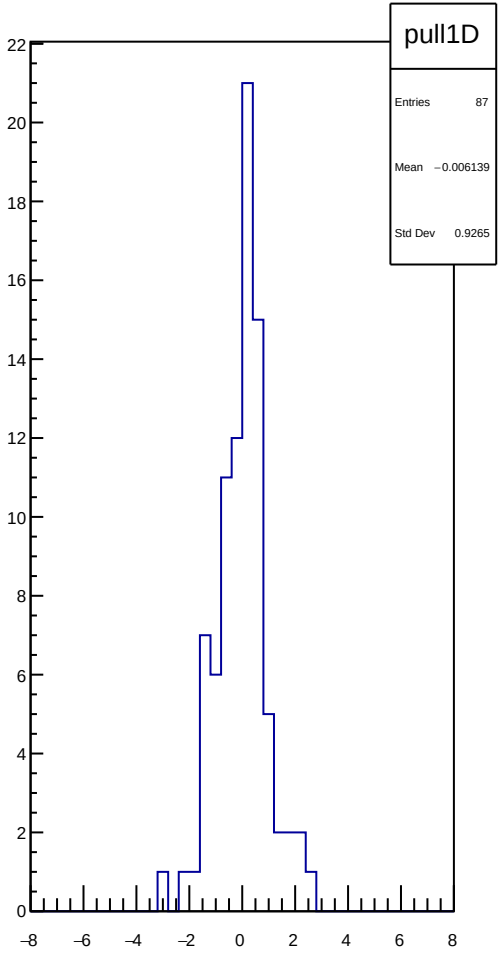

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.56 / 86
p0 0.008815 ± 0.04154
pull
Entries 87
Mean −10.95
Std Dev 26.4
pull1D
Entries 87
Mean −0.03414
Std Dev 0.9496

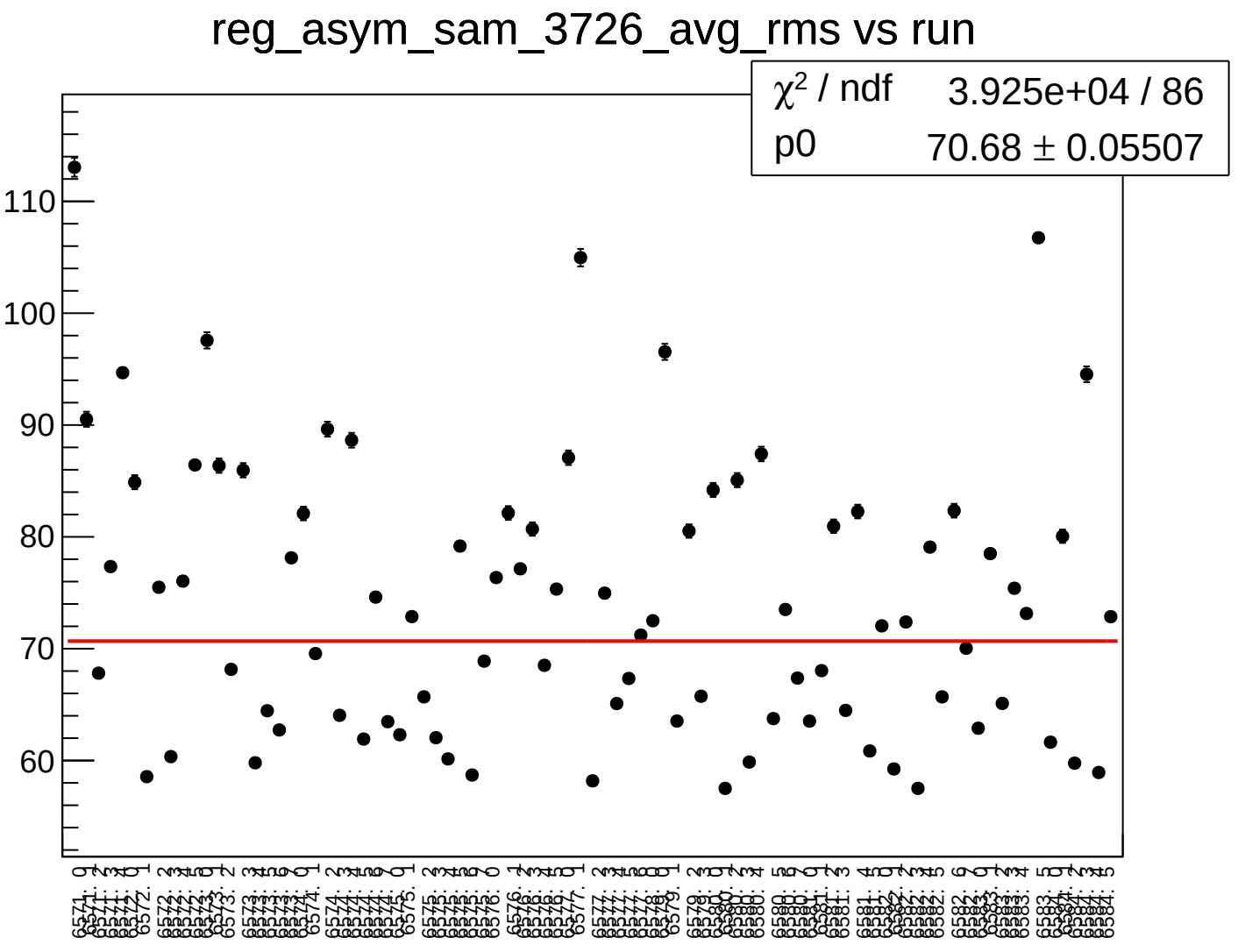

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.067e+05 / 86
p0 36.92 ± 0.02937
80
70
60
50
40
30

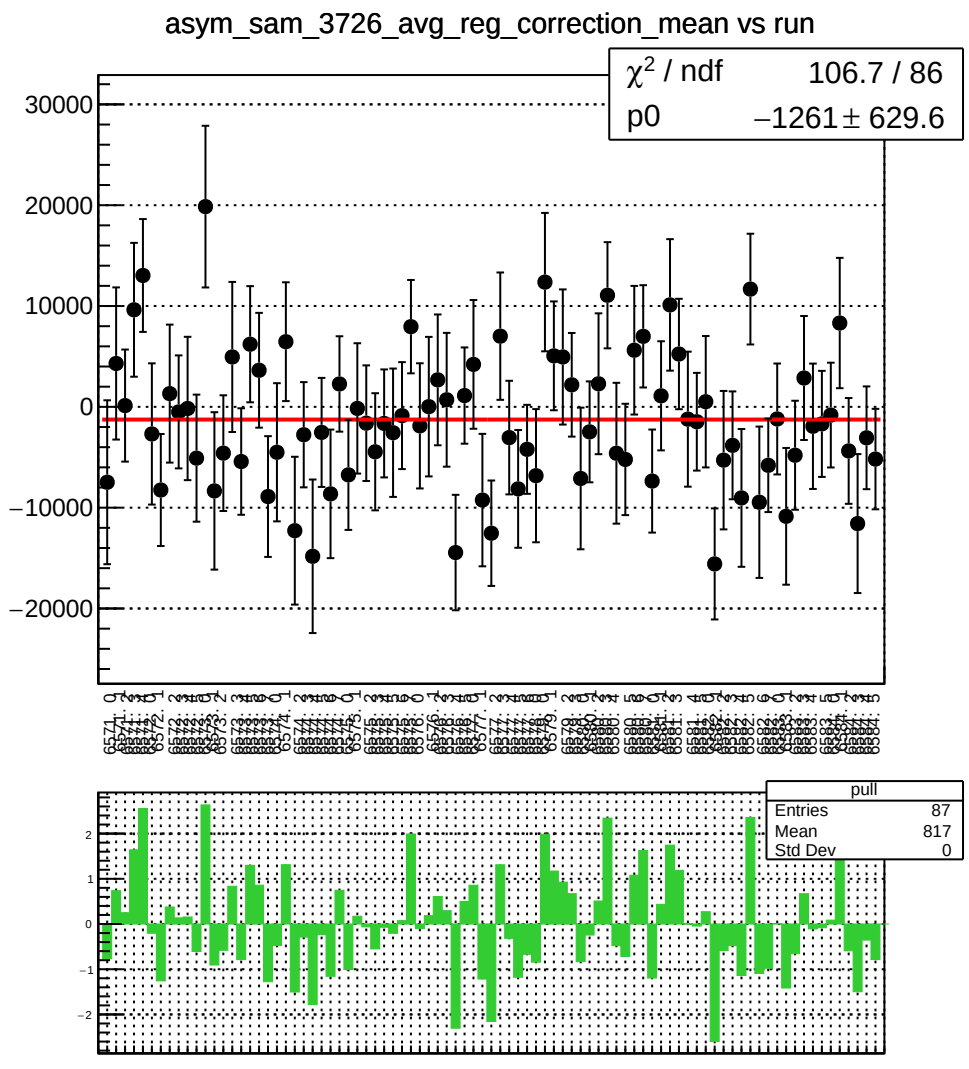

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.03 / 86
p0 1.395e−15 ± 3.753e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 87
Mean 44.71
Std Dev 14.36
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.06876
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

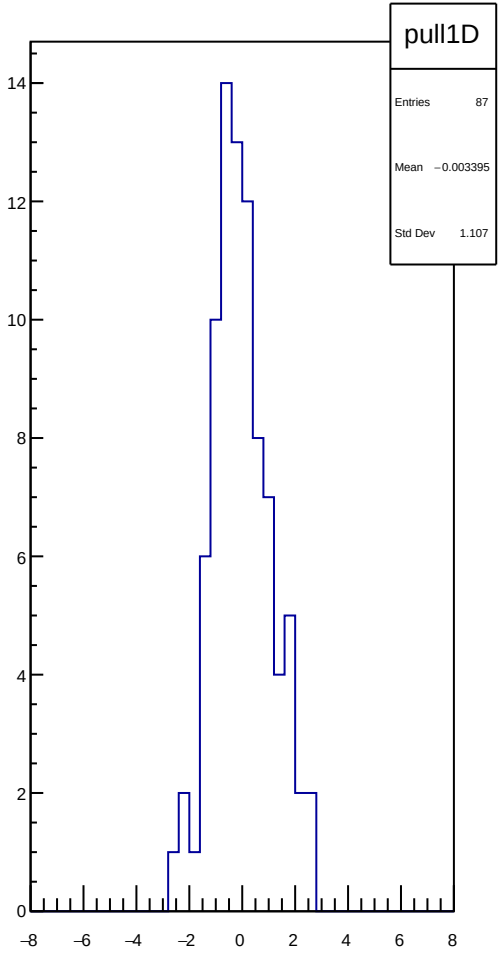

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.509e+05 / 86
p0 2.701e−12 ± 2.654e−15
25
20
15
10
5

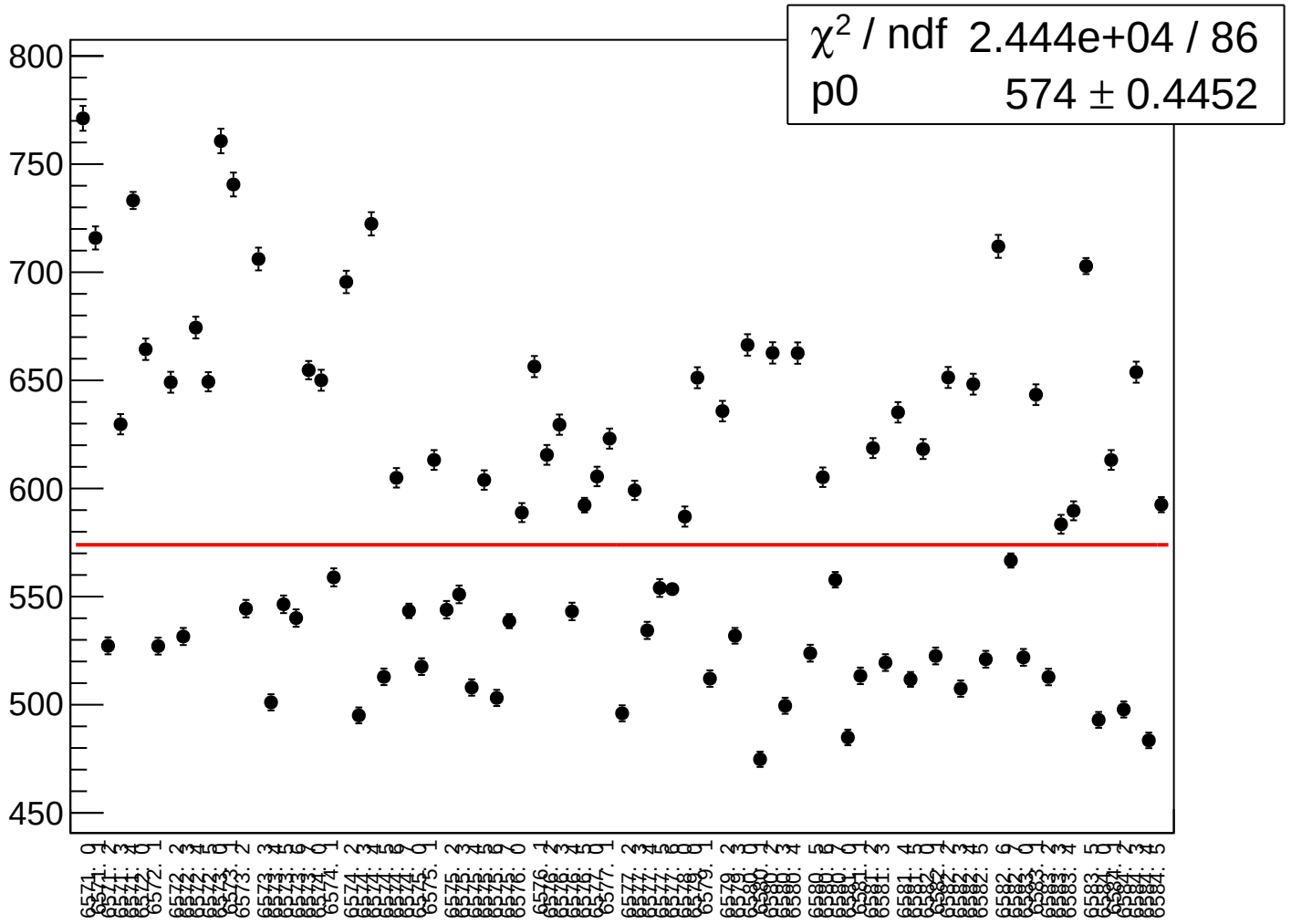

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 74.69 / 86
p0 59.78 ± 77.88
pull
Entries 87
Mean 364.8
Std Dev 0

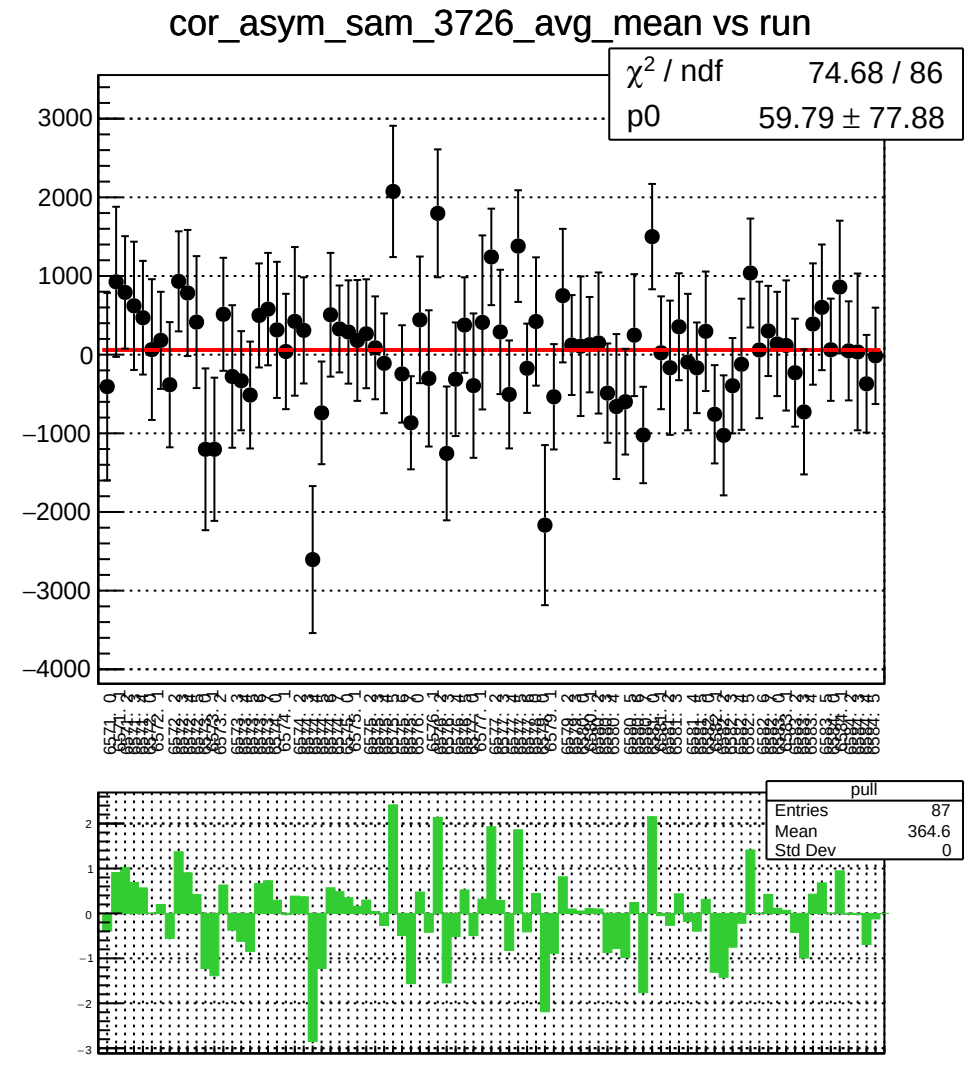

pull1D
Entries 87
Mean −0.006139
Std Dev 0.9265

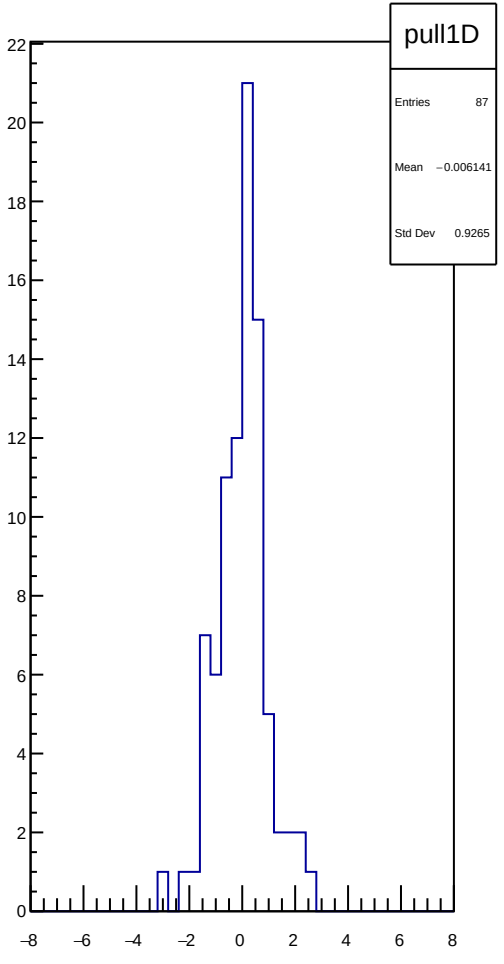

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 3.925e+04 / 86
p0 70.68 ± 0.05507
110
100
90
80
70
60

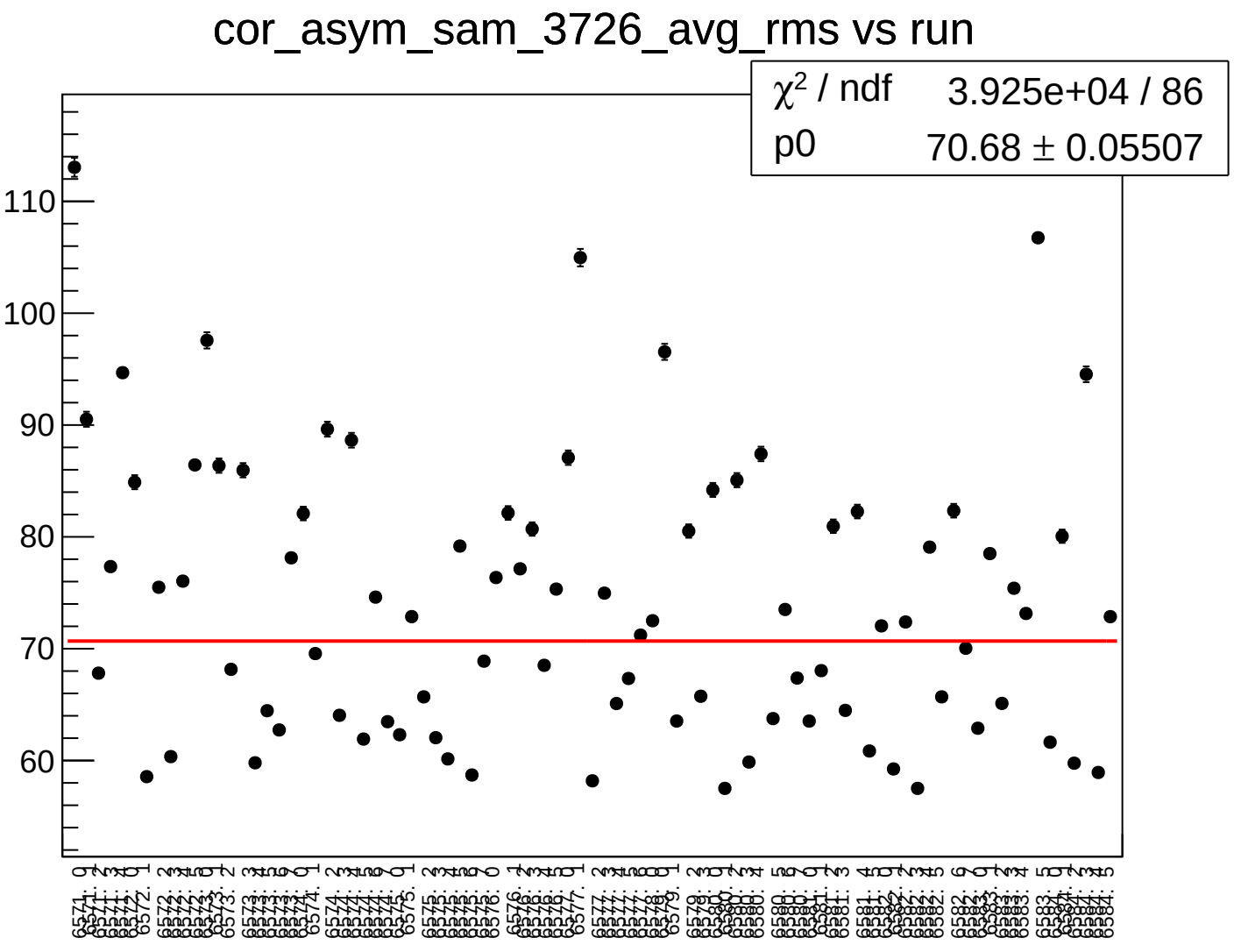

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 106.7 / 86
p0 −1261 ± 629.6
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 817
Std Dev 0
2
1
0
−1
−2

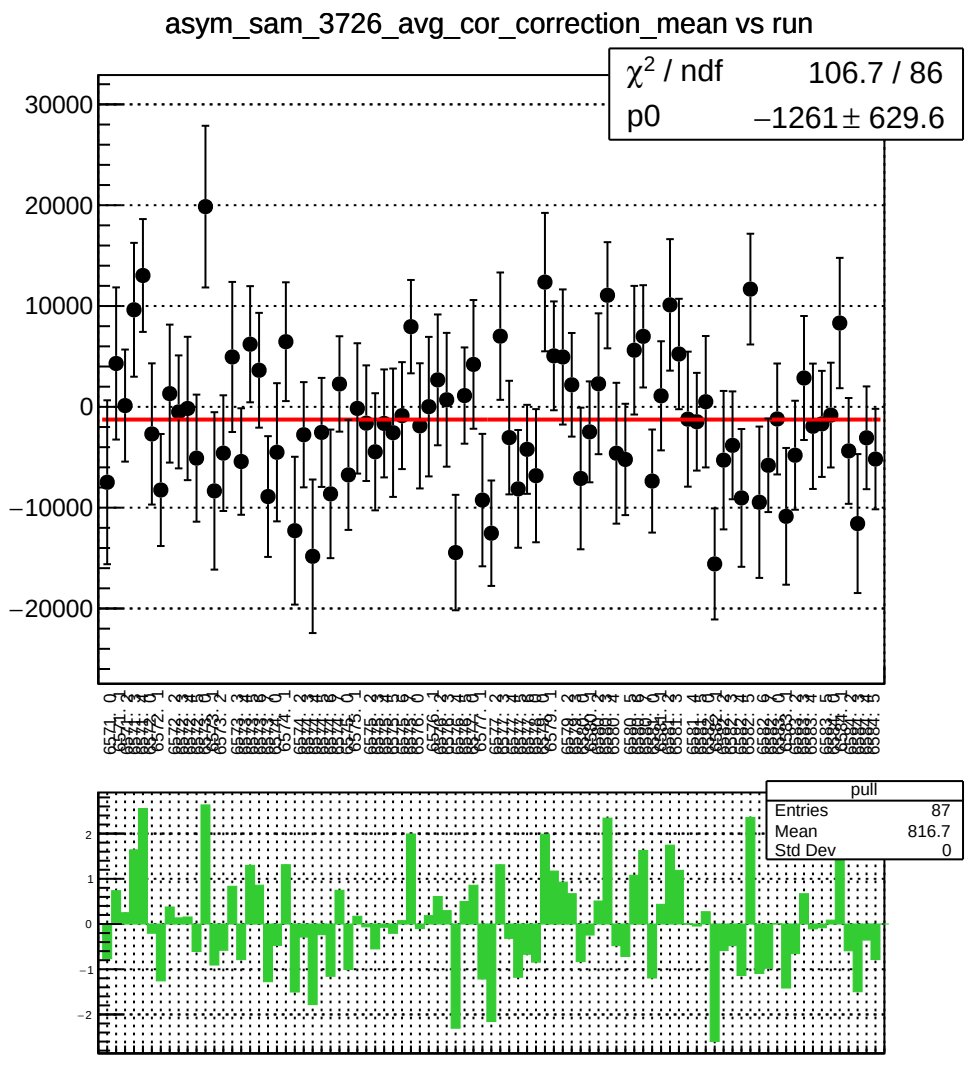

pull1D
Entries 87
Mean −0.003395
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

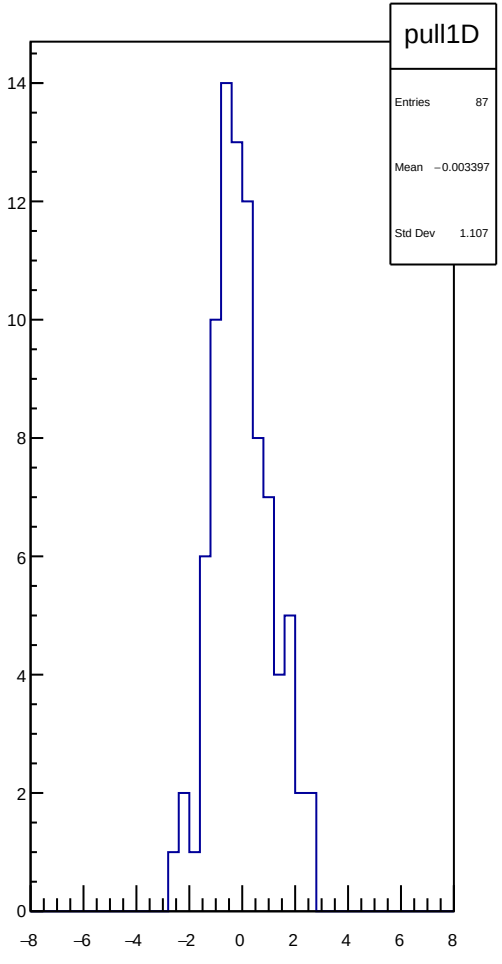

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 2.444e+04 / 86
p0 574 ± 0.4452
800
750
700
650
600
550
500
450

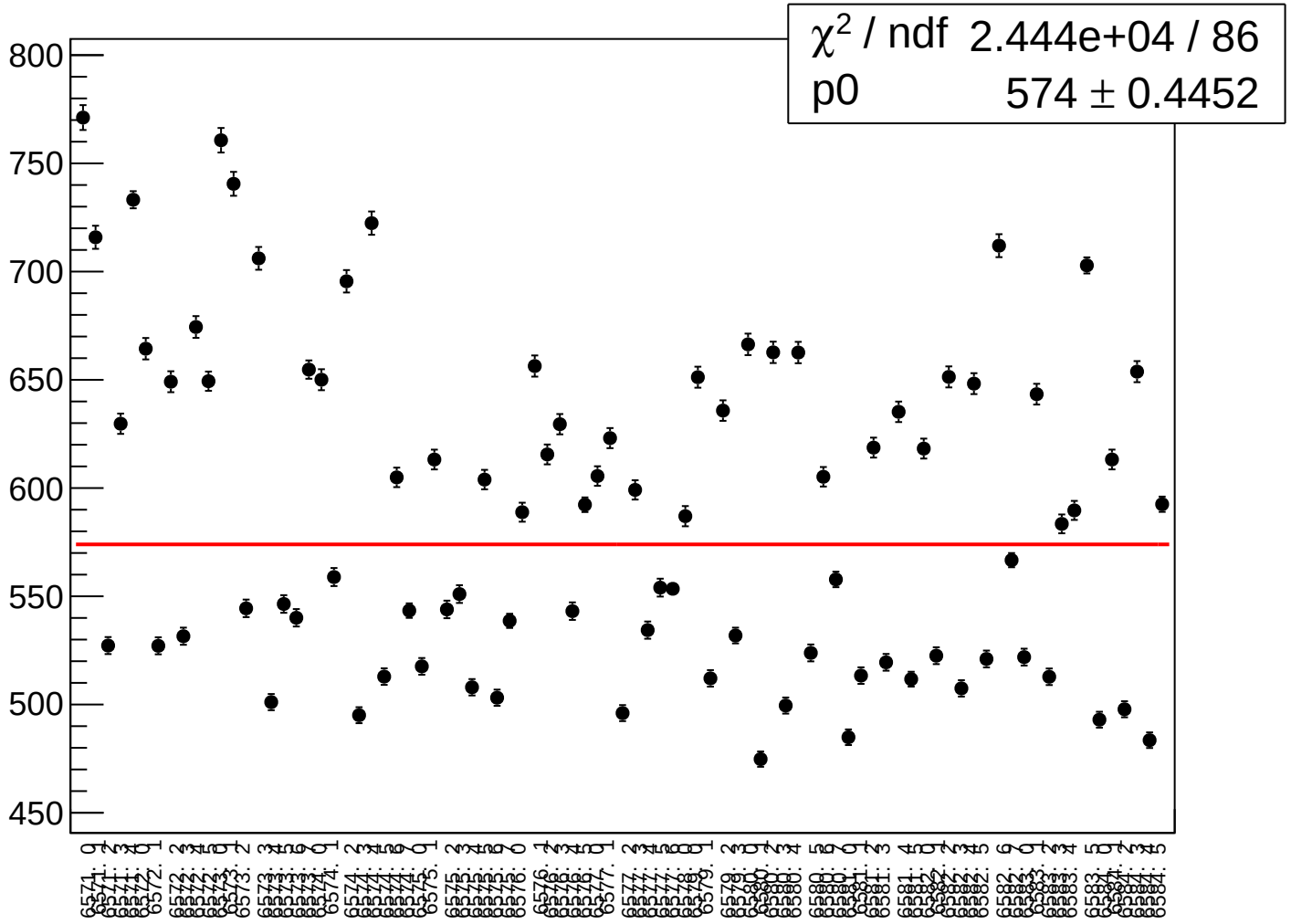

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 74.68 / 86
p0 59.79 ± 77.88
pull
Entries 87
Mean 364.6
Std Dev 0

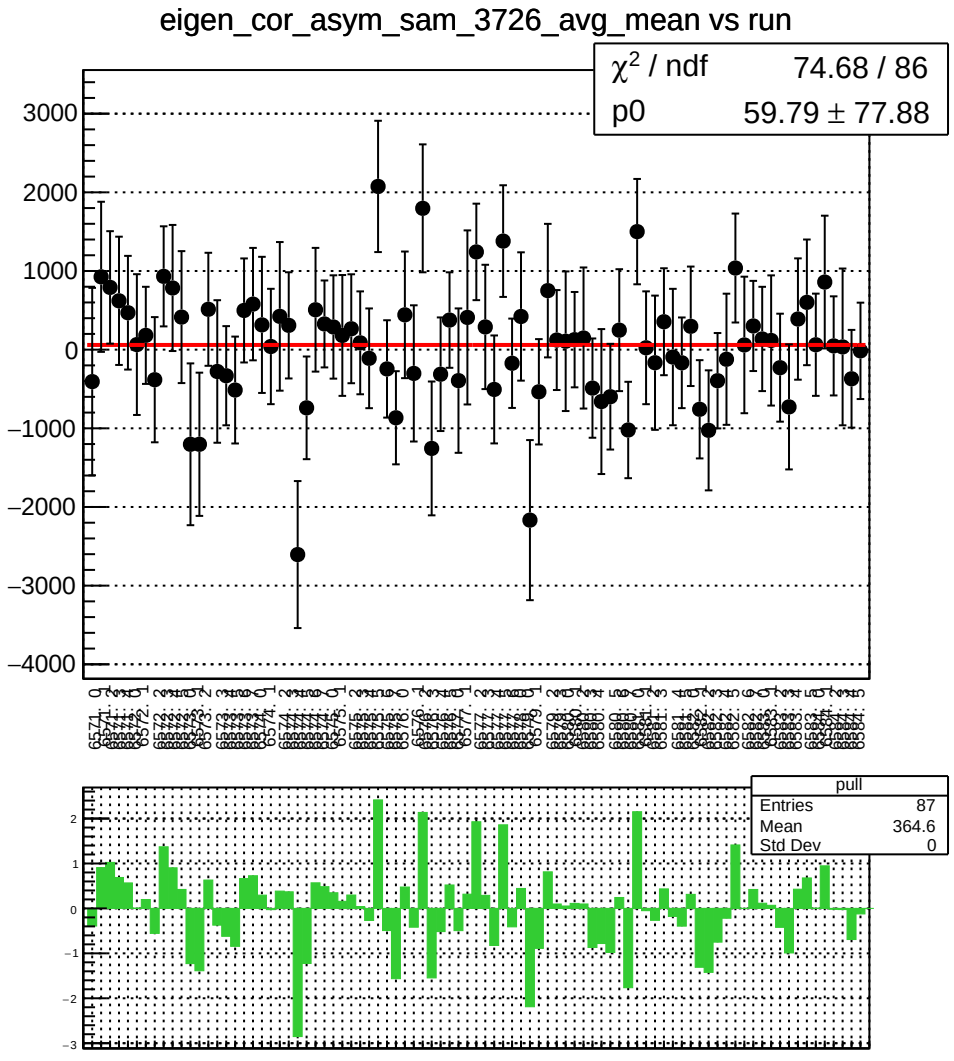

pull1D
Entries 87
Mean −0.006141
Std Dev 0.9265

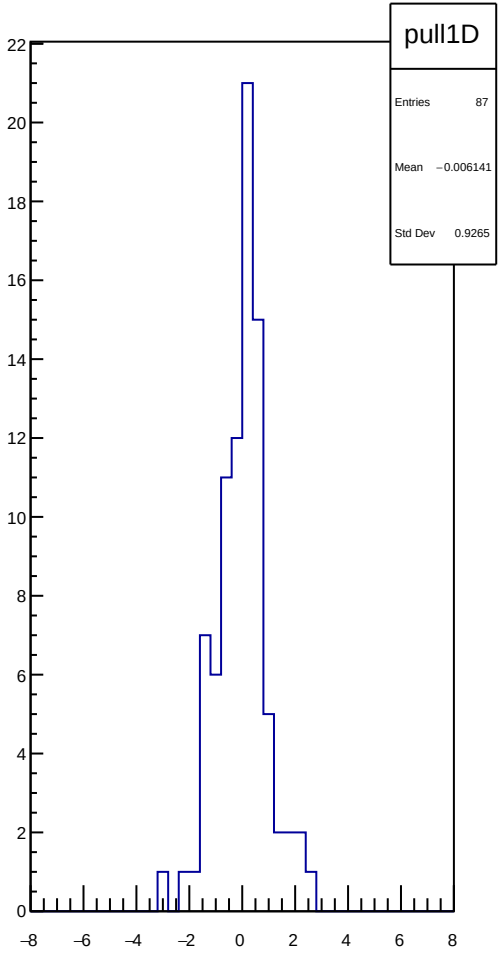

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.925e+04 / 86
p0 70.68 ± 0.05507
110
100
90
80
70
60

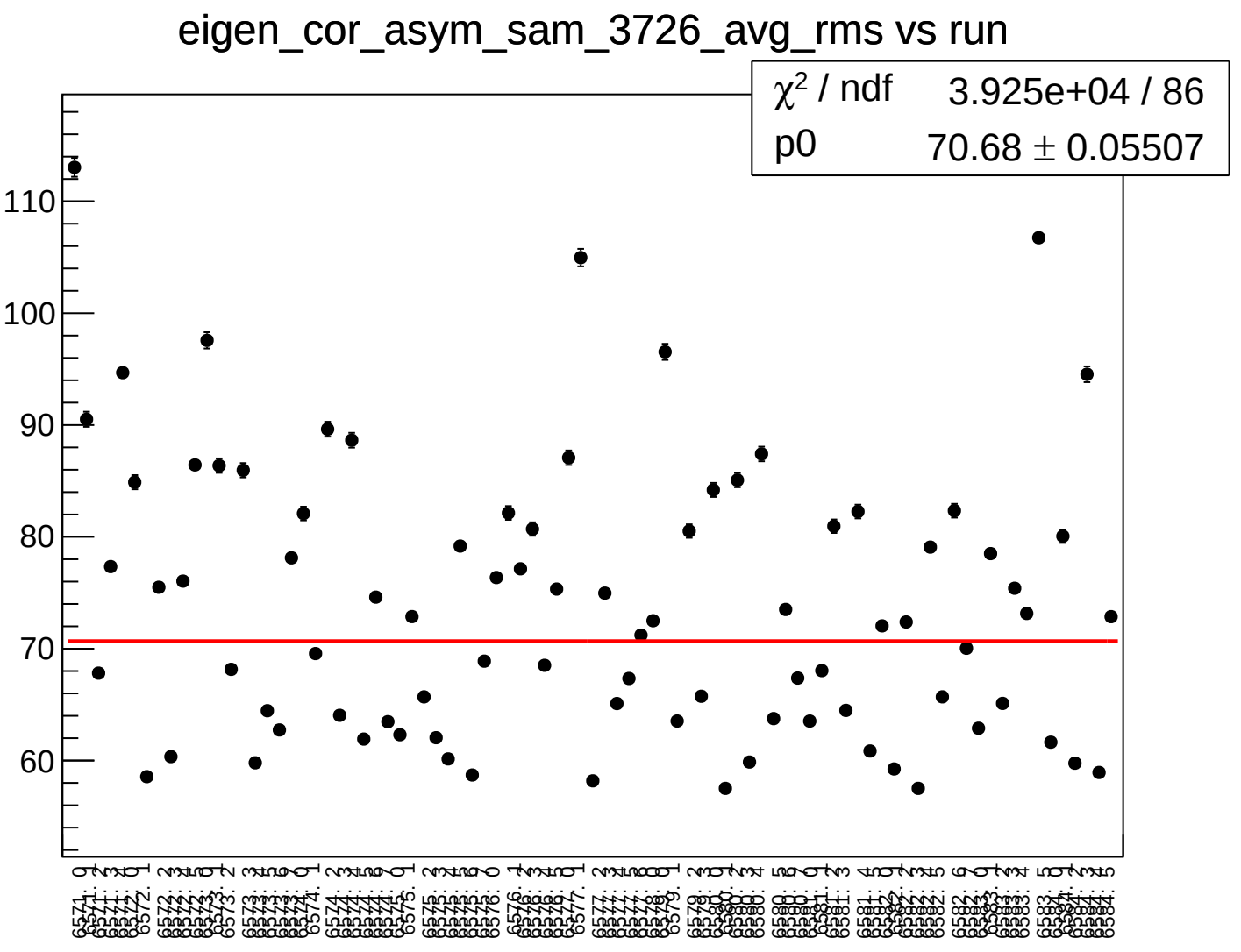

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 106.7 / 86
p0 −1261 ± 629.6
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 816.7
Std Dev 0
2
1
0
−1
−2

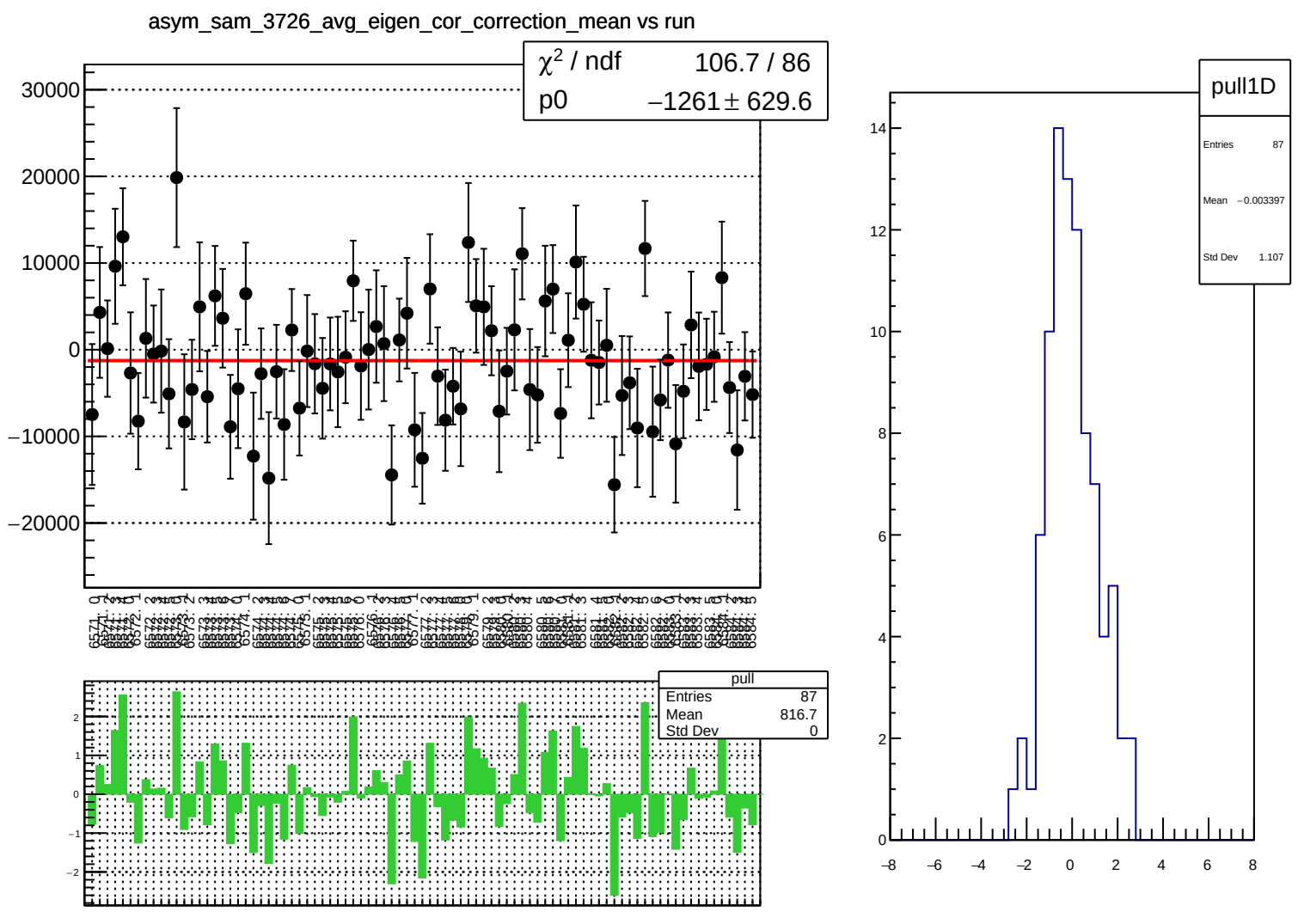

pull1D
Entries 87
Mean −0.003397
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

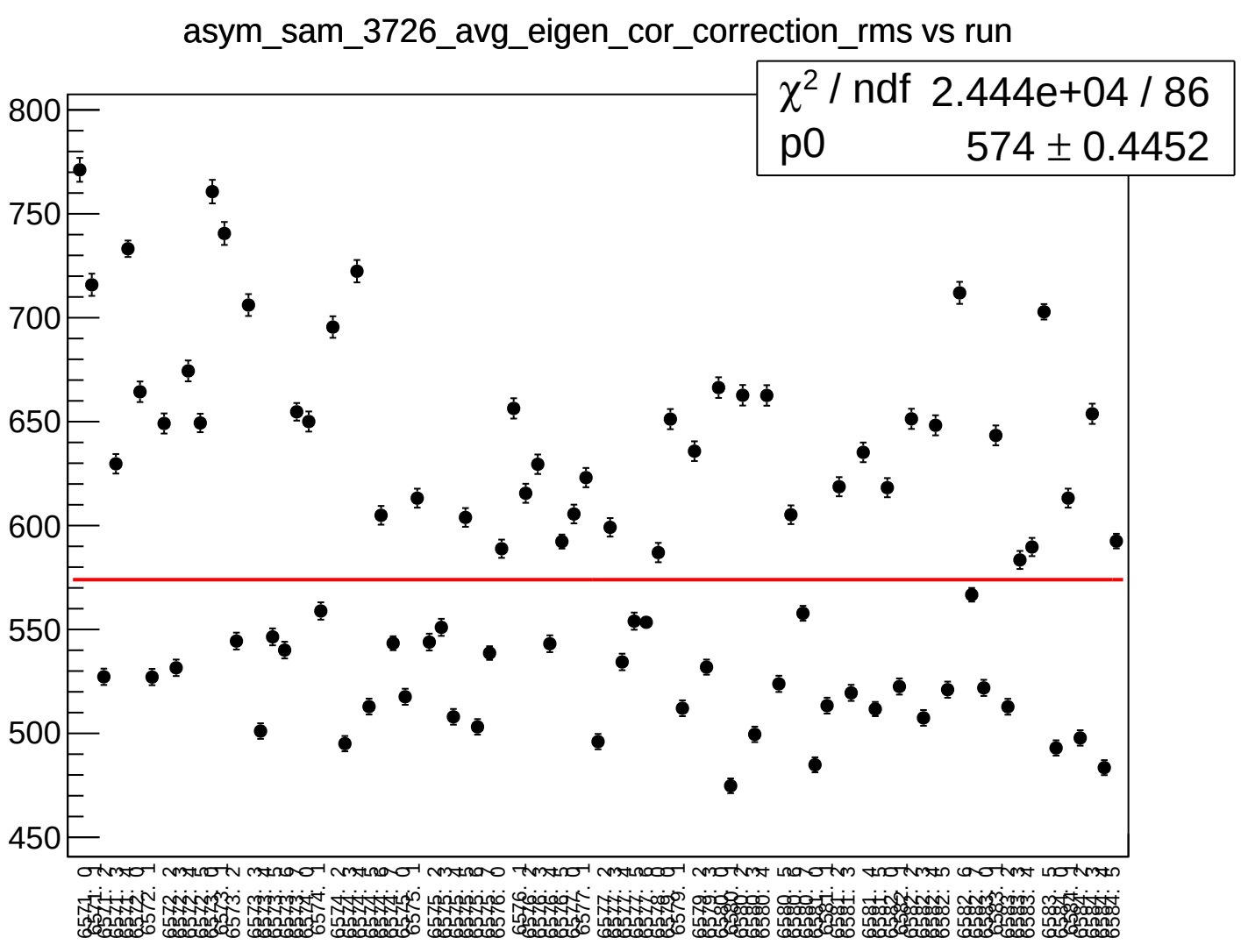

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 2.444e+04 / 86
p0 574 ± 0.4452
800
750
700
650
600
550
500
450

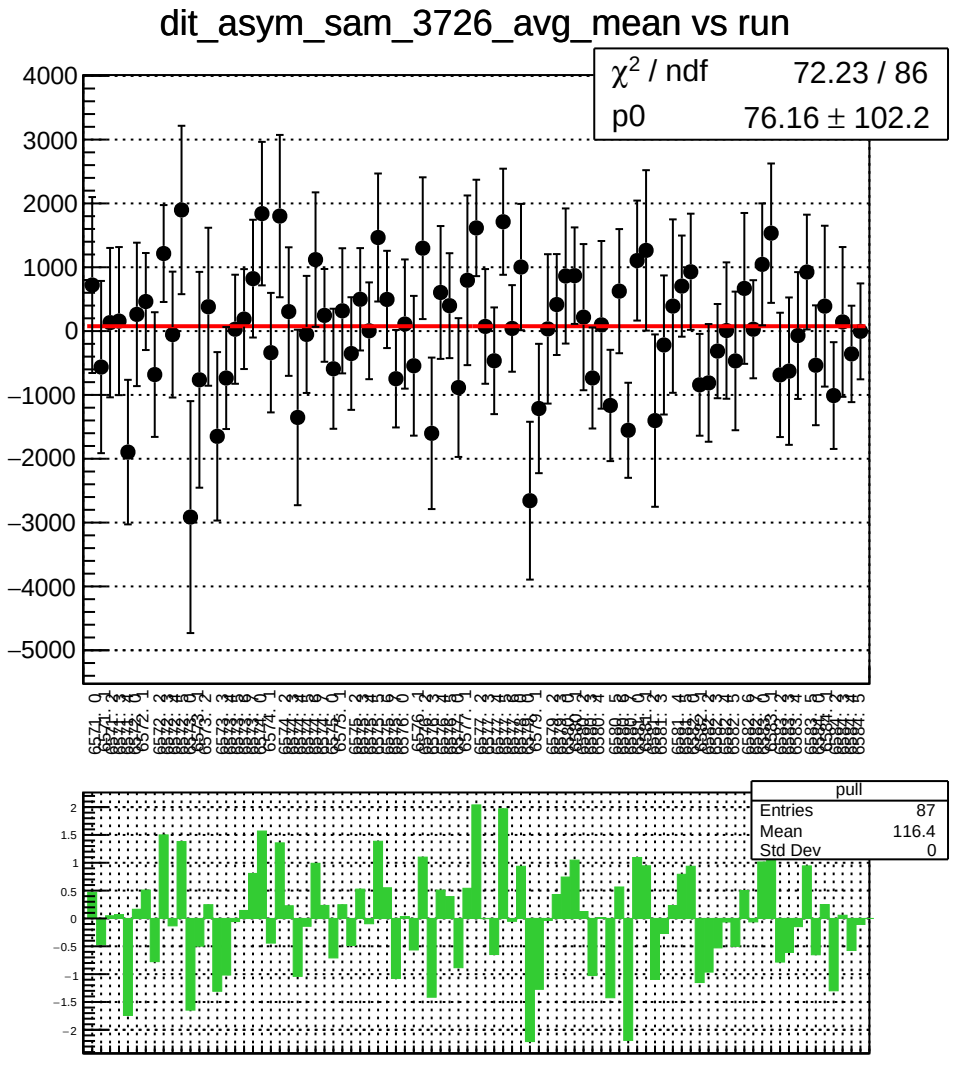

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 74.68 / 86
p0 59.79 ± 77.88
pull
Entries 87
Mean 364.6
Std Dev 0

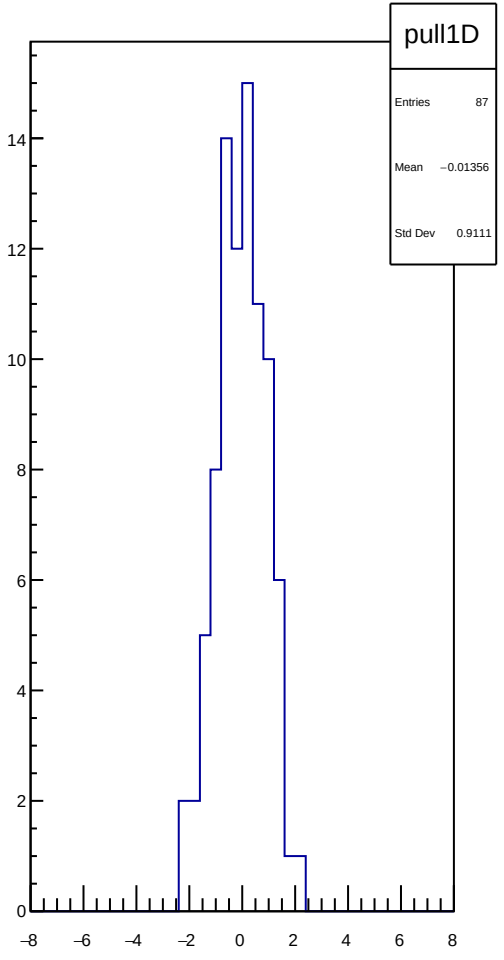

pull1D
Entries 87
Mean −0.006141
Std Dev 0.9265

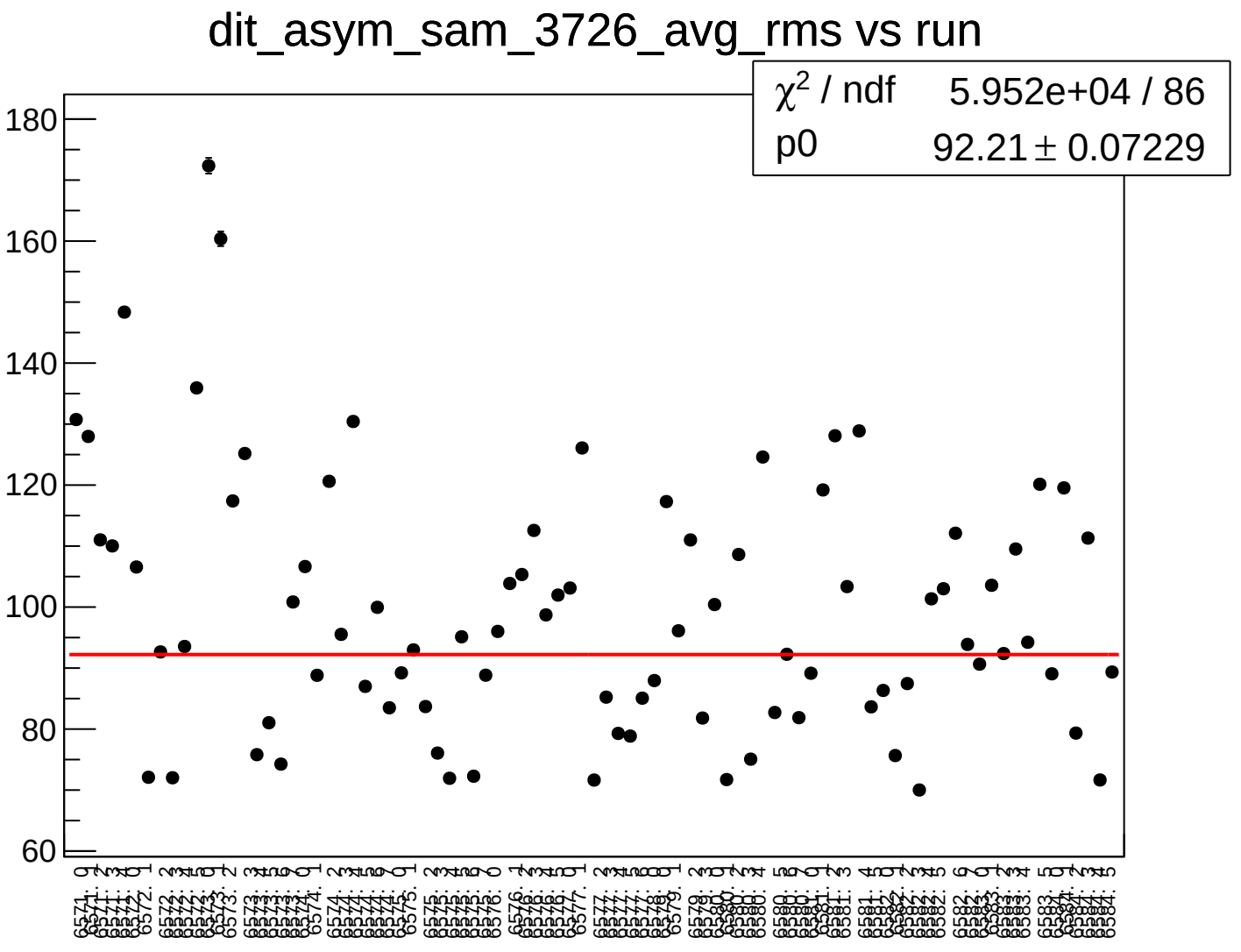

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.925e+04 / 86
p0 70.68 ± 0.05507
110
100
90
80
70
60

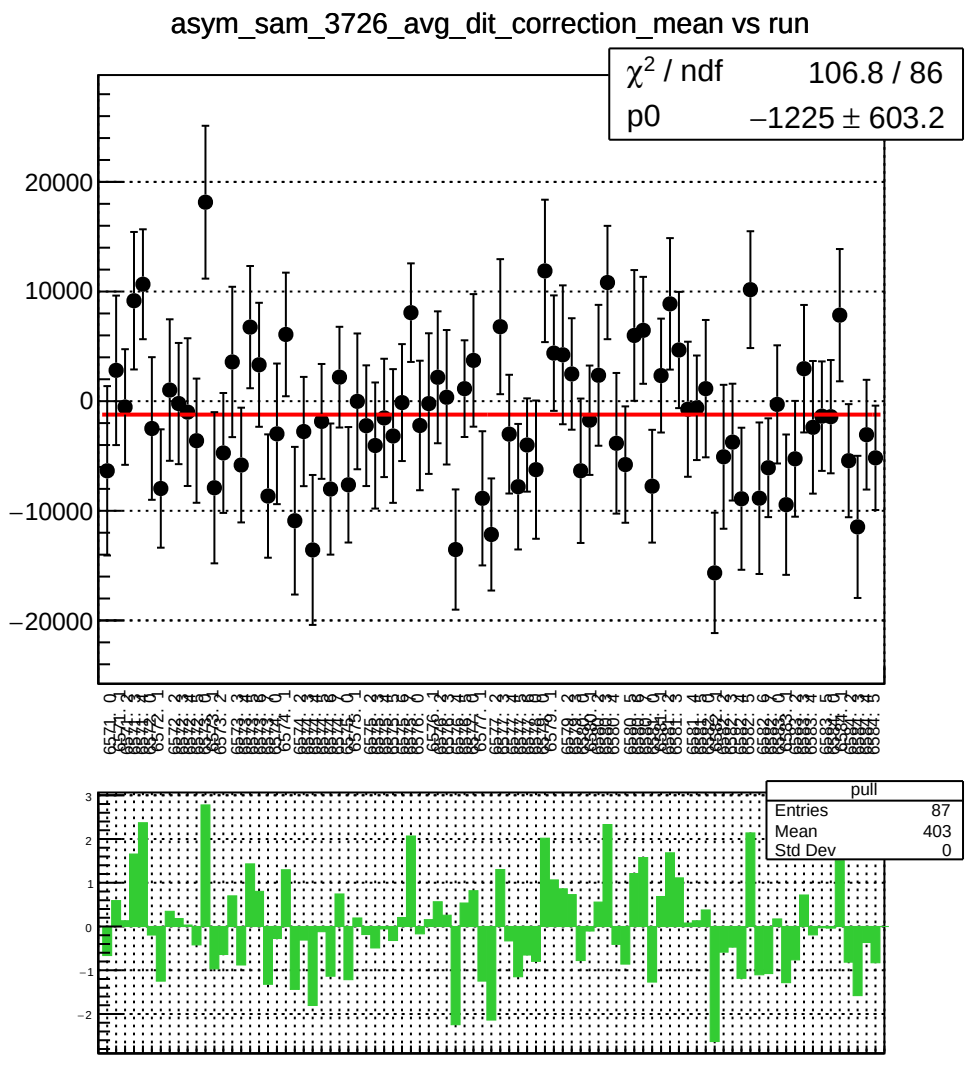

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 106.7 / 86
p0 −1261 ± 629.6
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 816.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.003397
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

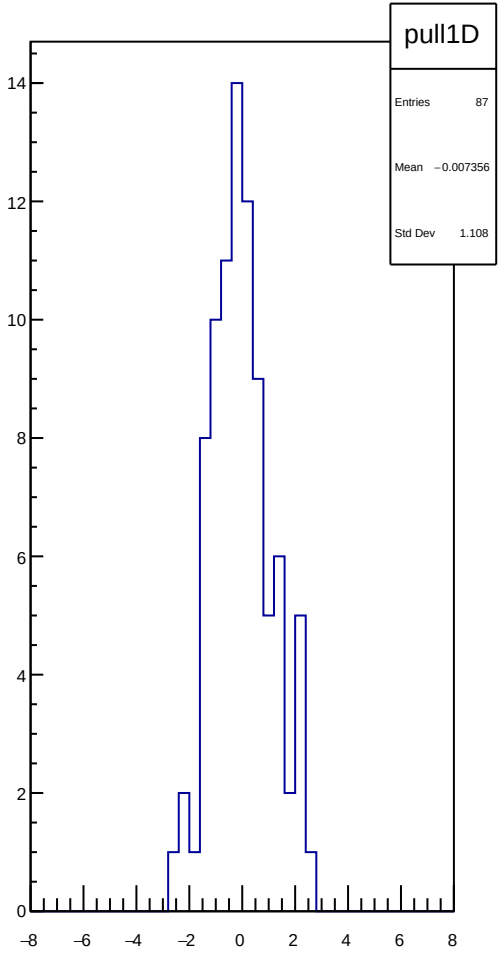

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.444e+04 / 86
p0 574 ± 0.4452
800
750
700
650
600
550
500
450

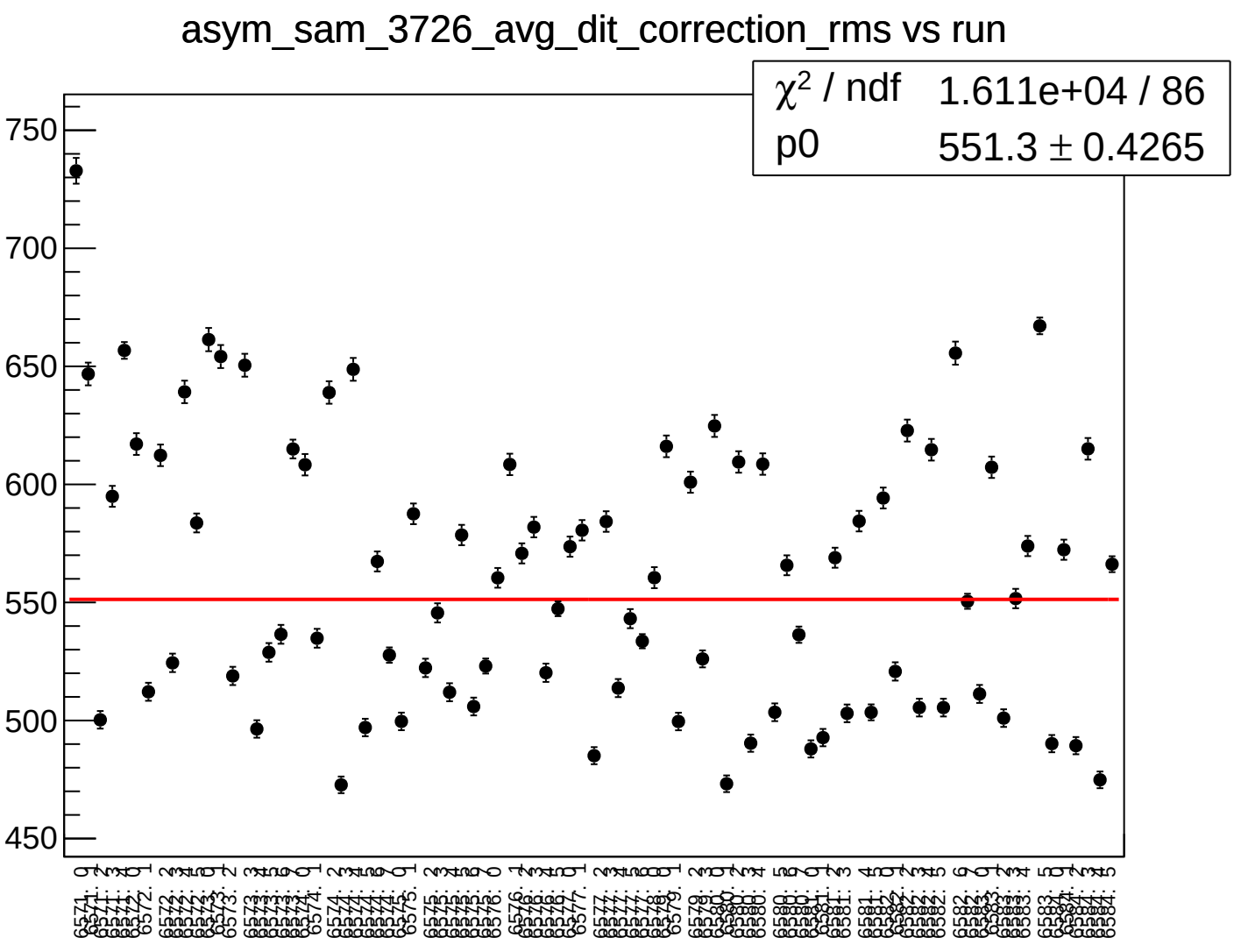

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 72.23 / 86
p0 76.16 ± 102.2
pull
Entries 87
Mean 116.4
Std Dev 0

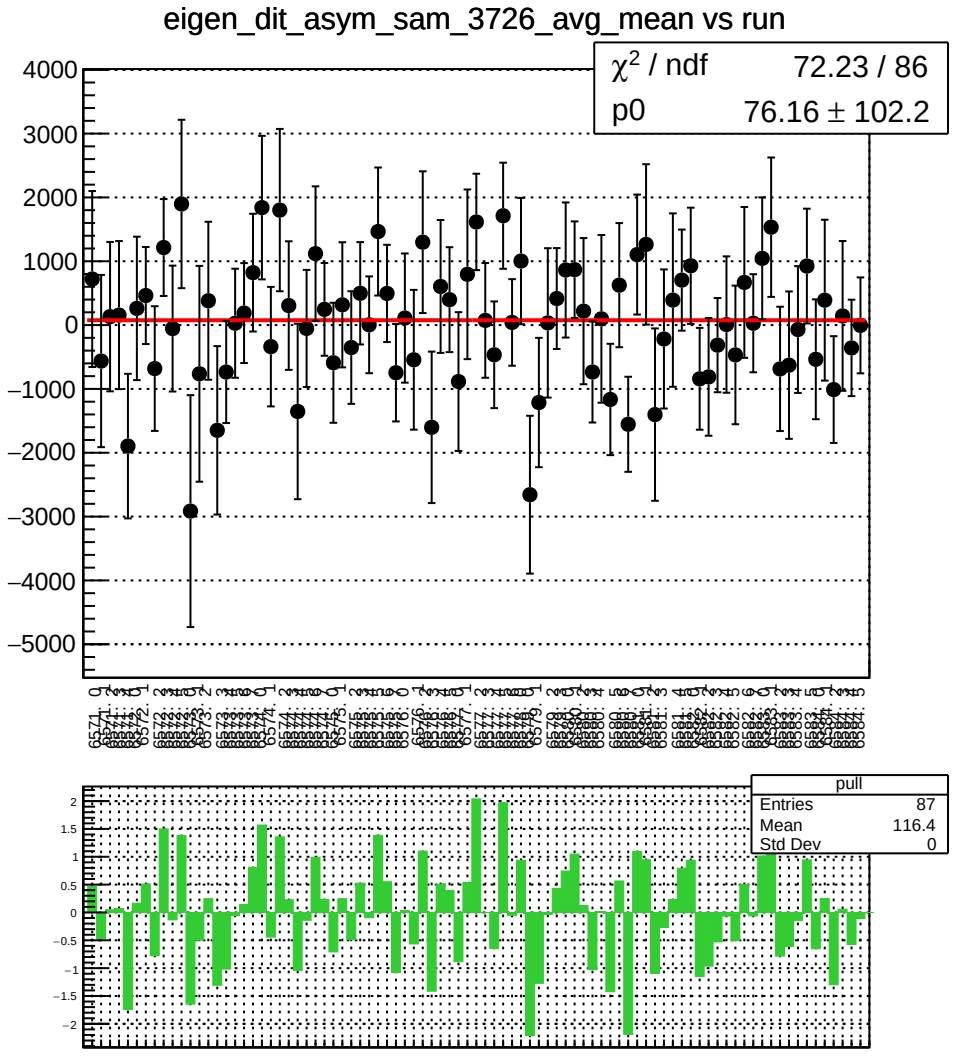

pull1D
Entries 87
Mean −0.01356
Std Dev 0.9111

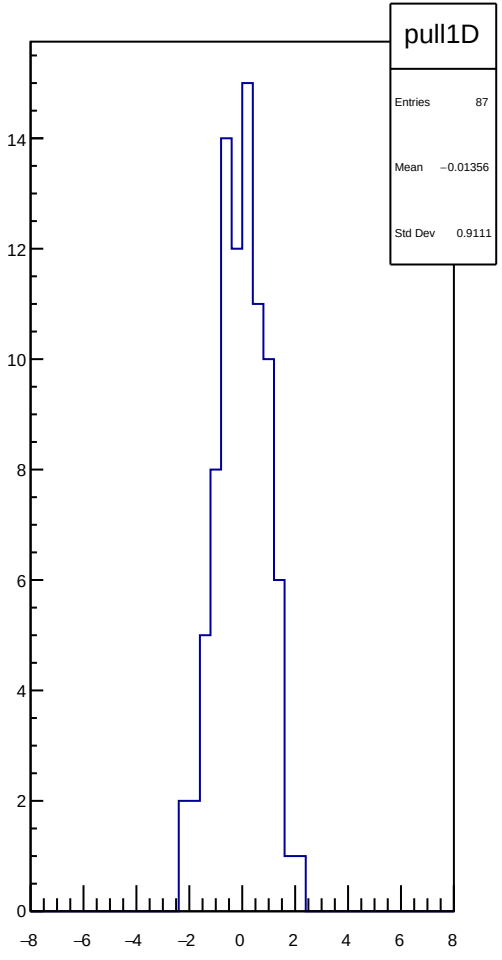

dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 5.952e+04 / 86
p0 92.21 ± 0.07229
180
160
140
120
100
80
60

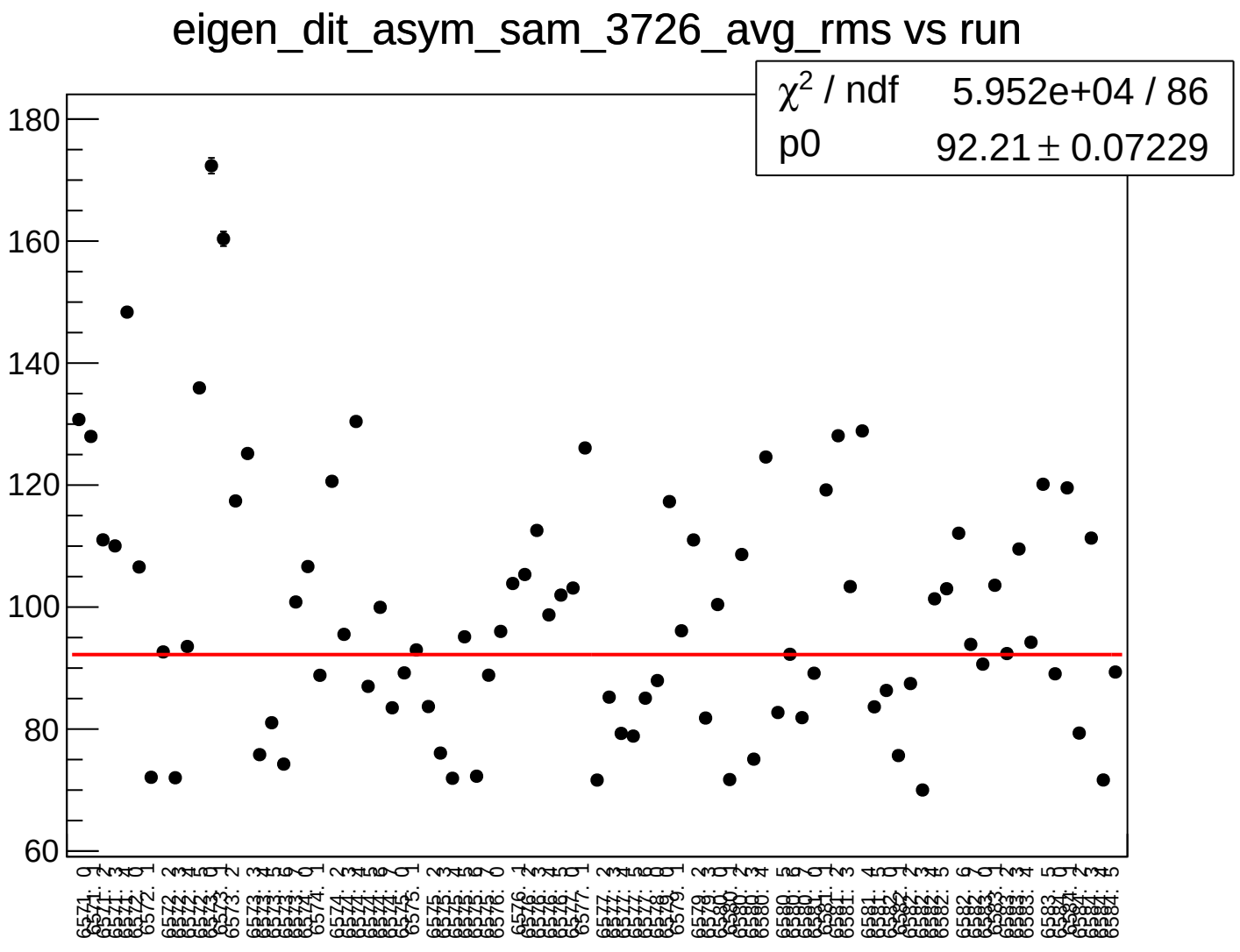

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 106.8 / 86
p0 −1225 ± 603.2
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 403
Std Dev 0
3
2
1
0
−1
−2

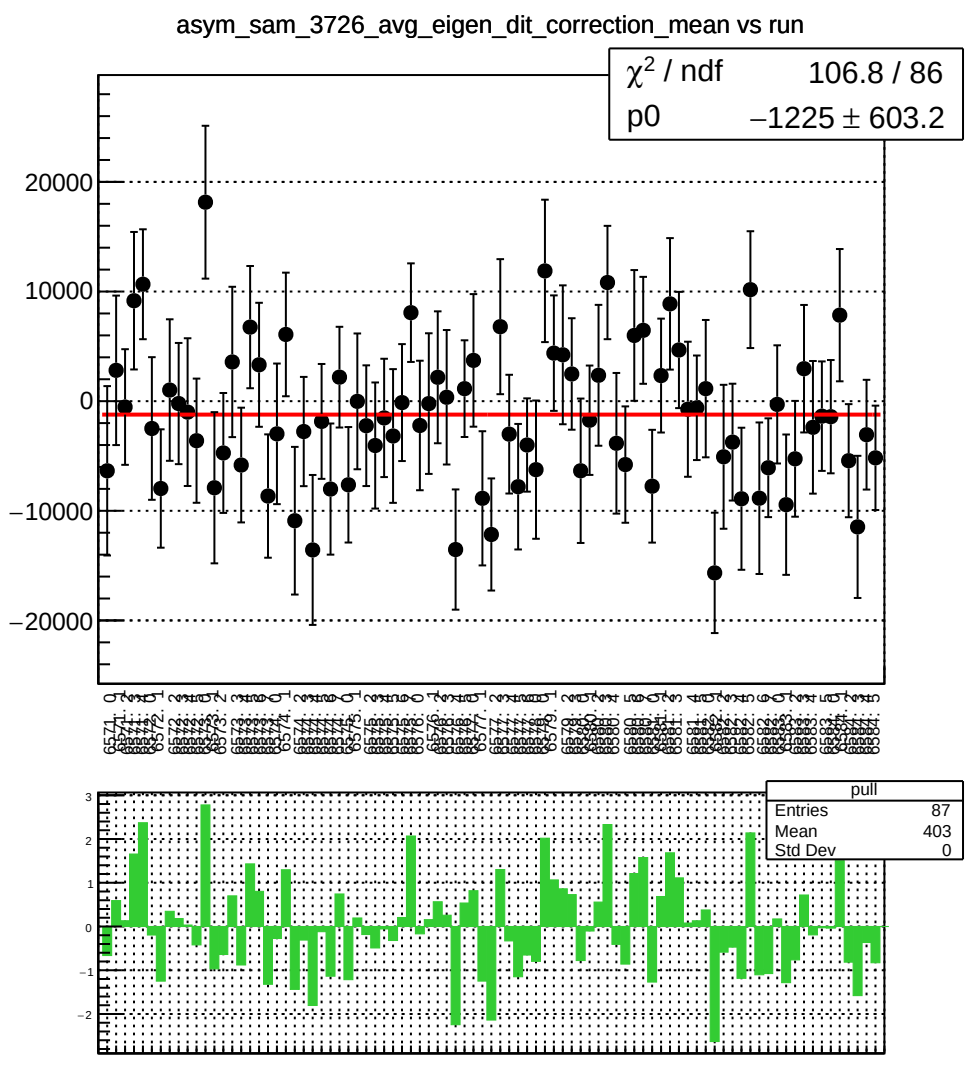

pull1D
Entries 87
Mean −0.007356
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

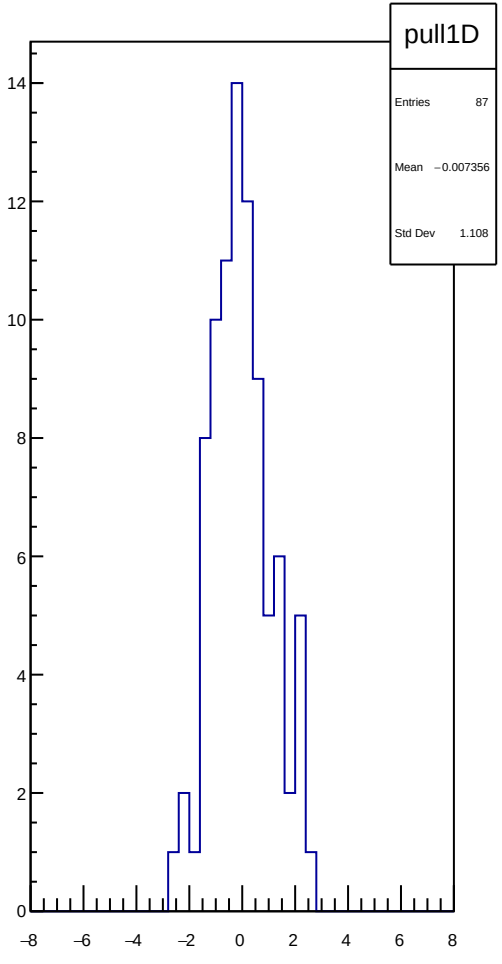

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.611e+04 / 86
p0 551.3 ± 0.4265
750
700
650
600
550
500
450

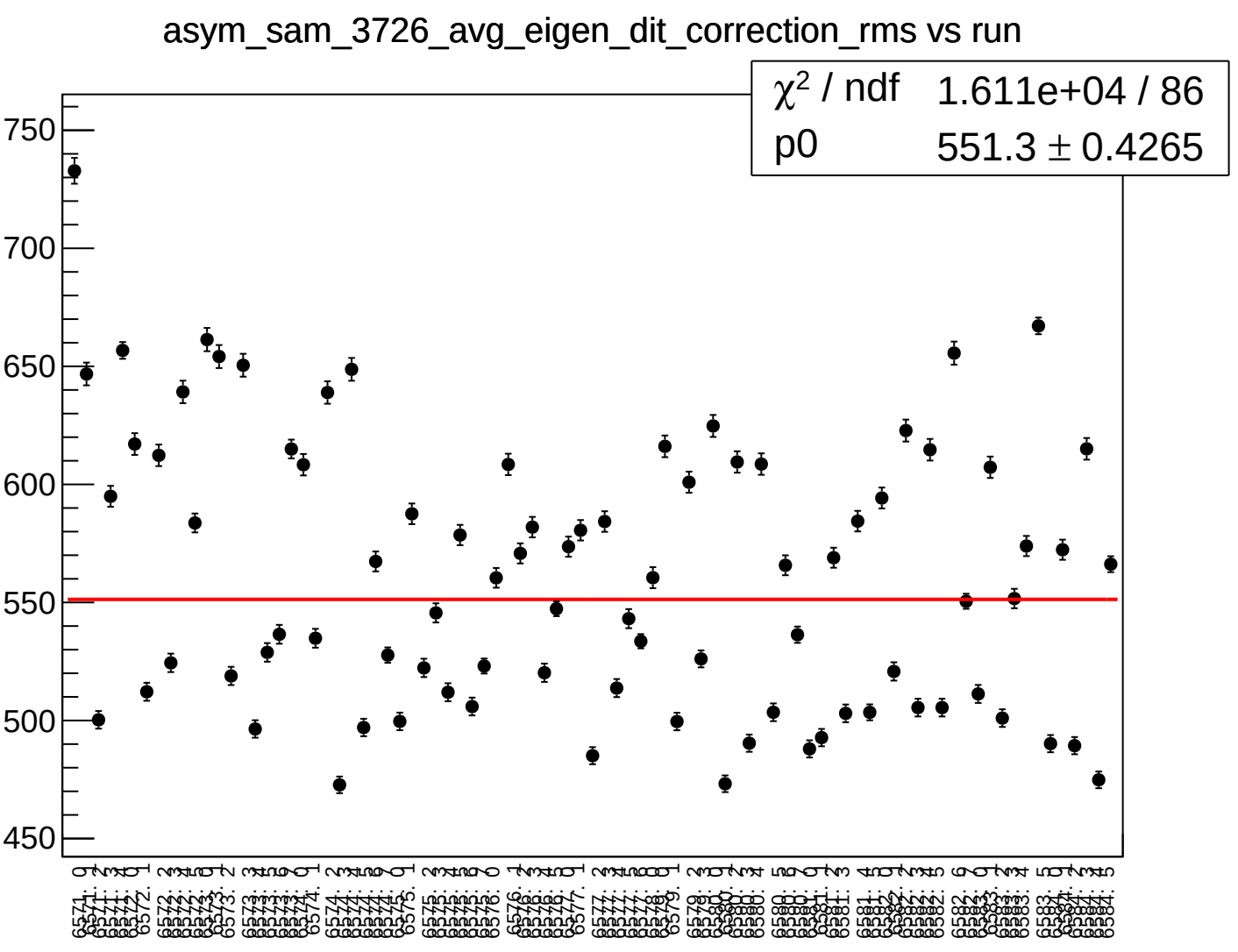

eigen_dit_asym_sam_3726_avg_mean vs run
χ^2 / ndf 72.23 / 86
p0 76.16 ± 102.2
pull
Entries 87
Mean 116.4
Std Dev 0

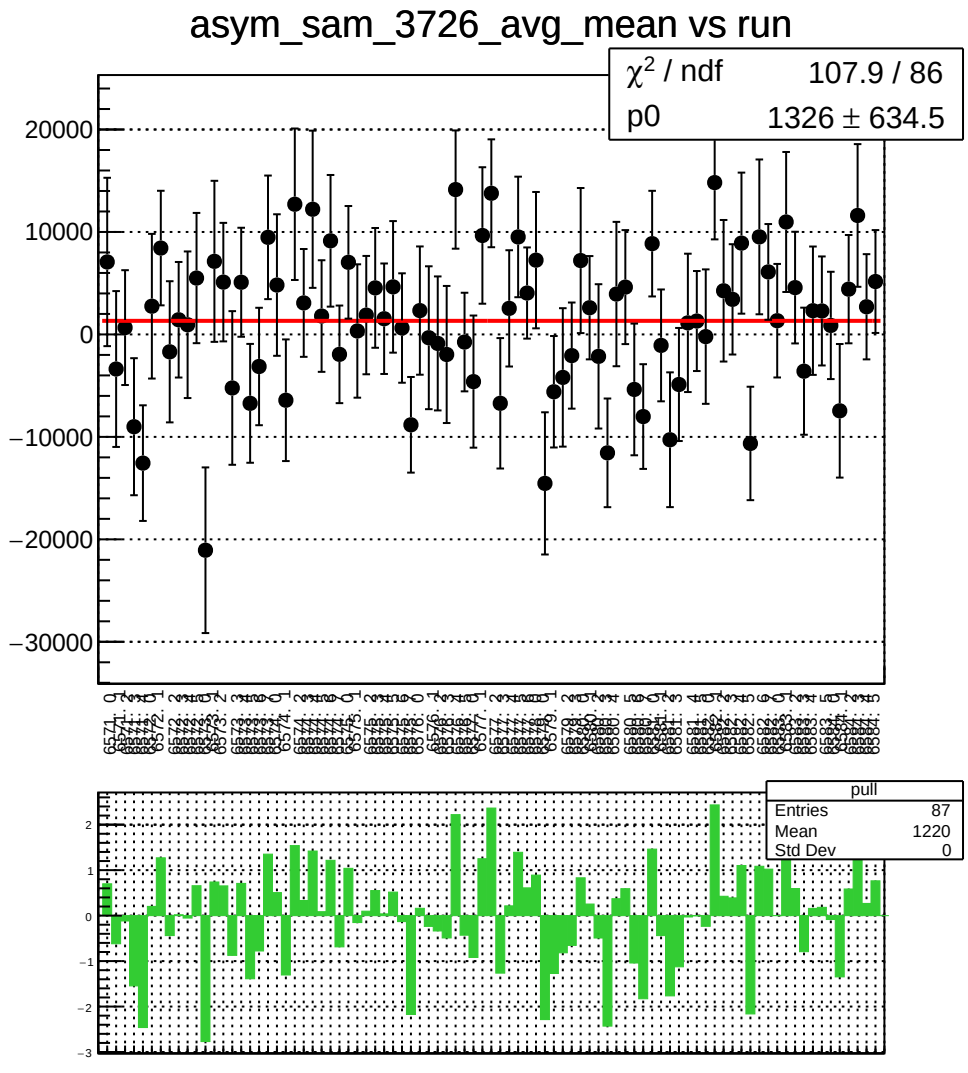

pull1D
Entries 87
Mean −0.01356
Std Dev 0.9111

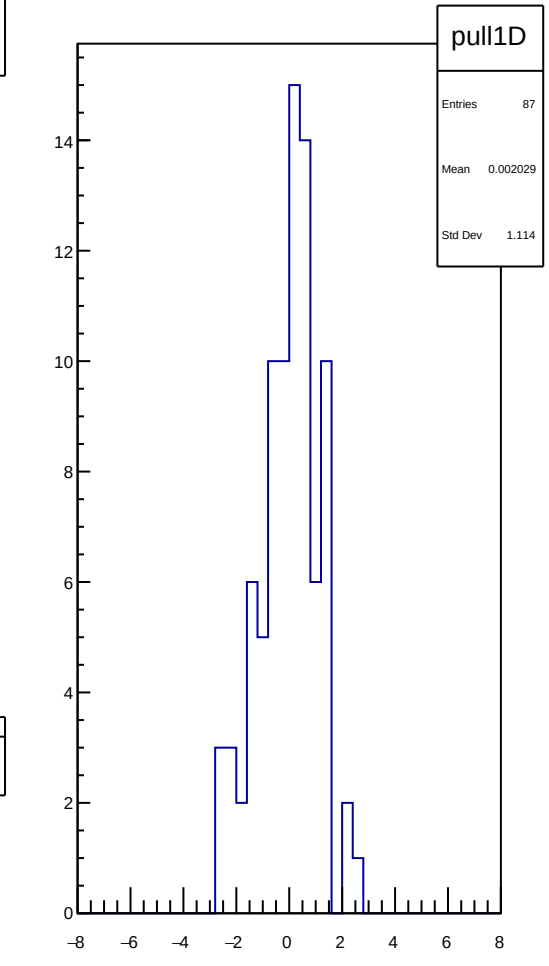

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 5.952e+04 / 86
p0 92.21 ± 0.07229
180
160
140
120
100
80
60

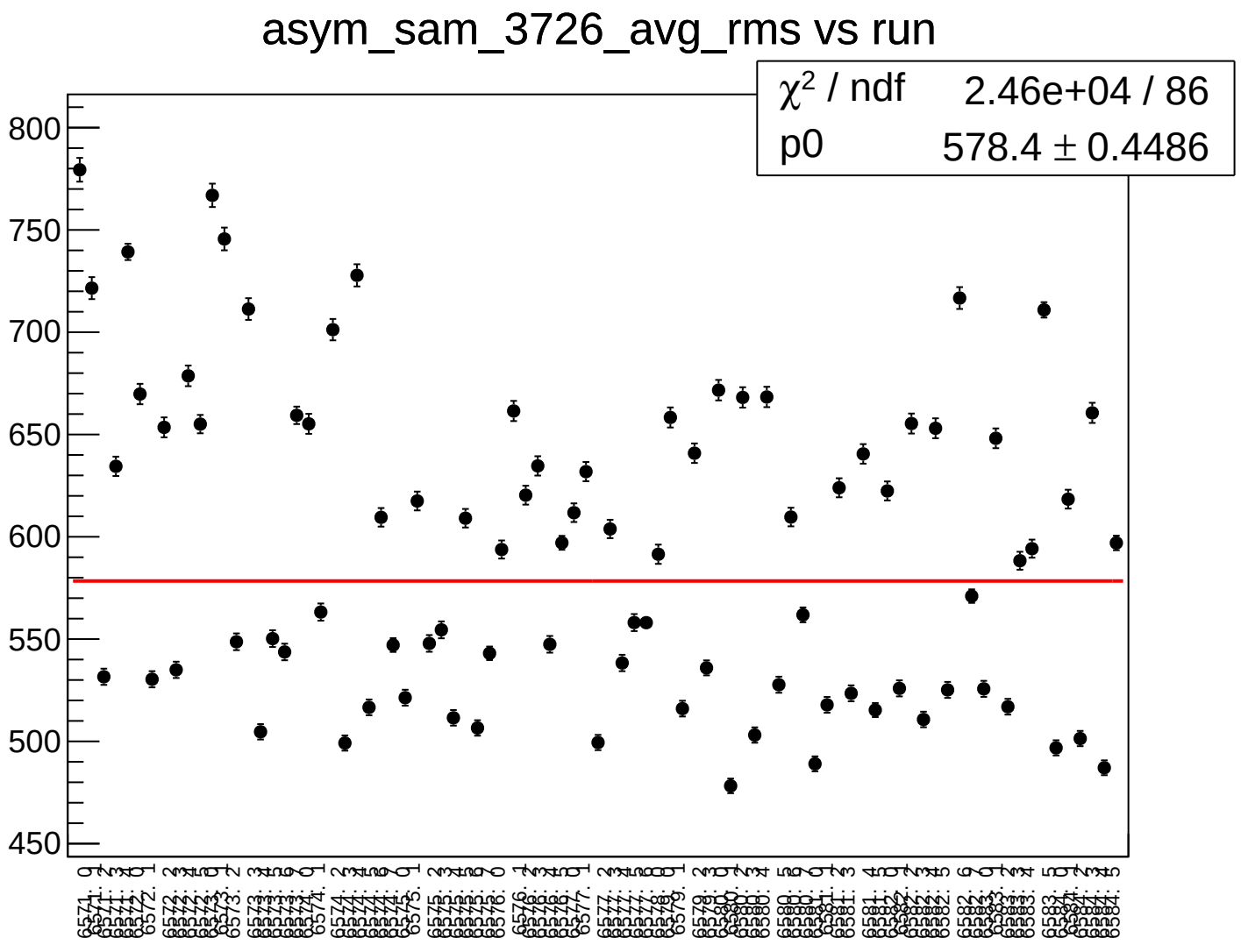

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 106.8 / 86
p0 −1225 ± 603.2
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 403
Std Dev 0
3
2
1
0
−1
−2

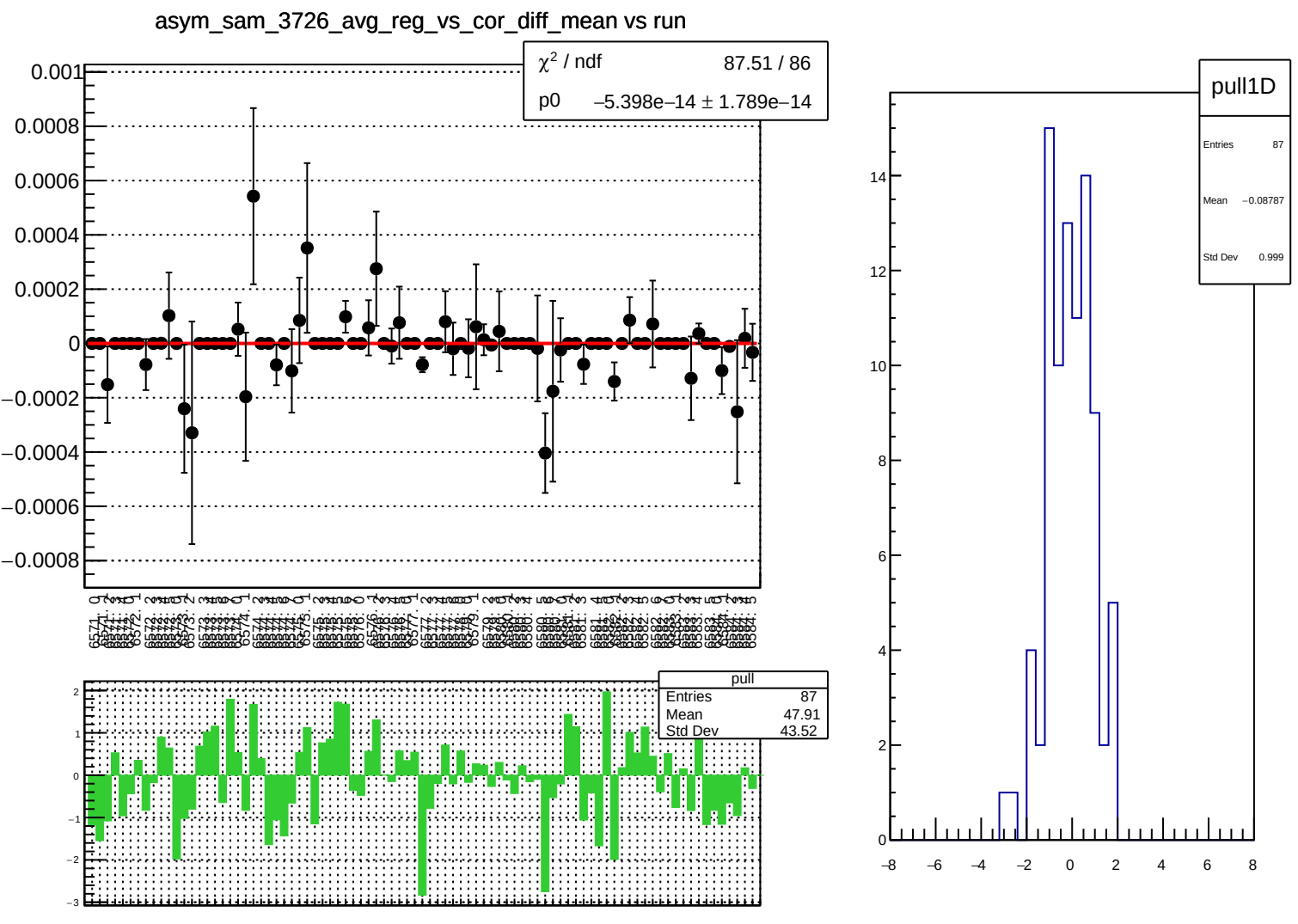

pull1D
Entries 87
Mean −0.007356
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

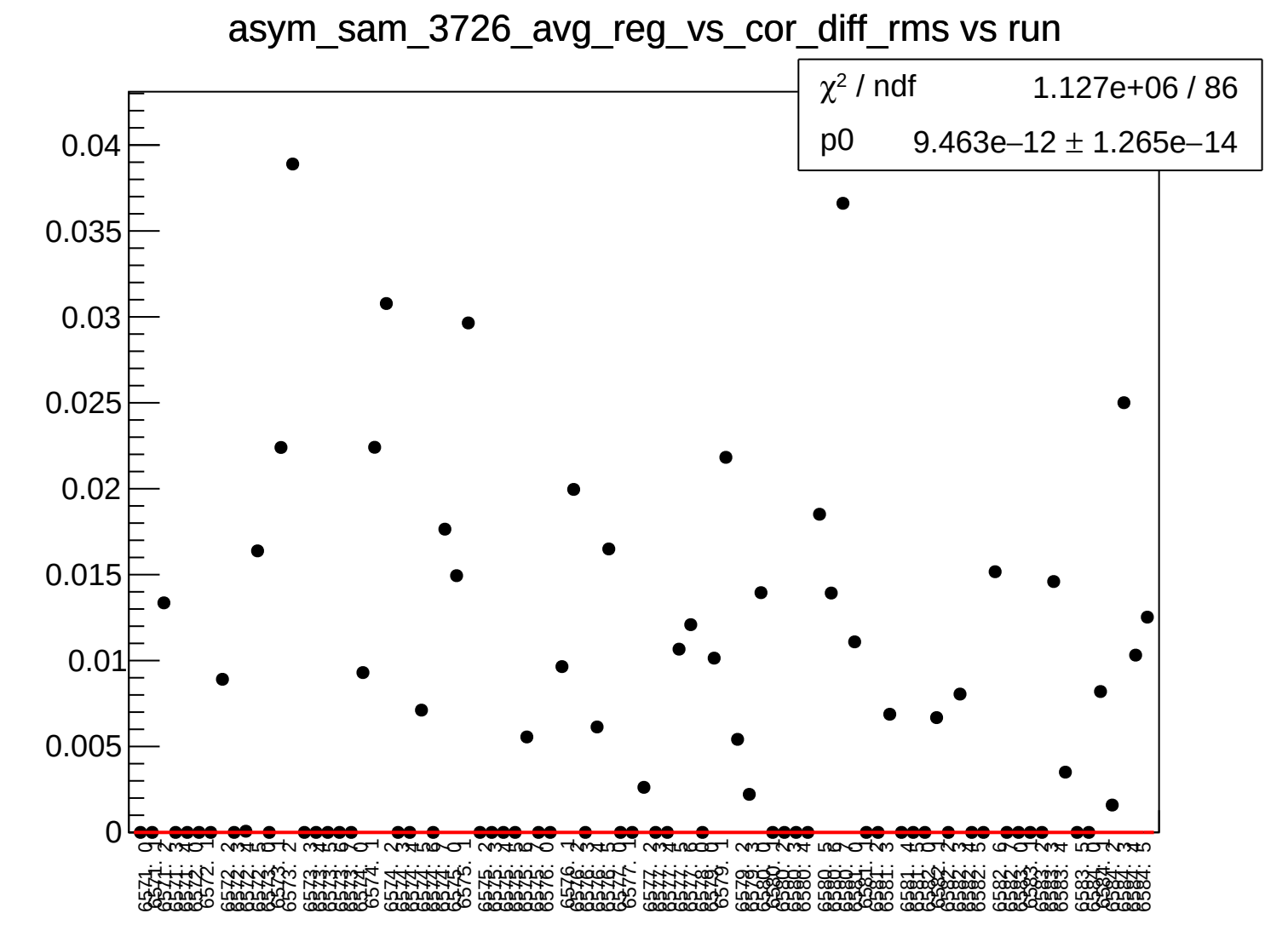

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.611e+04 / 86
p0 551.3 ± 0.4265
750
700
650
600
550
500
450

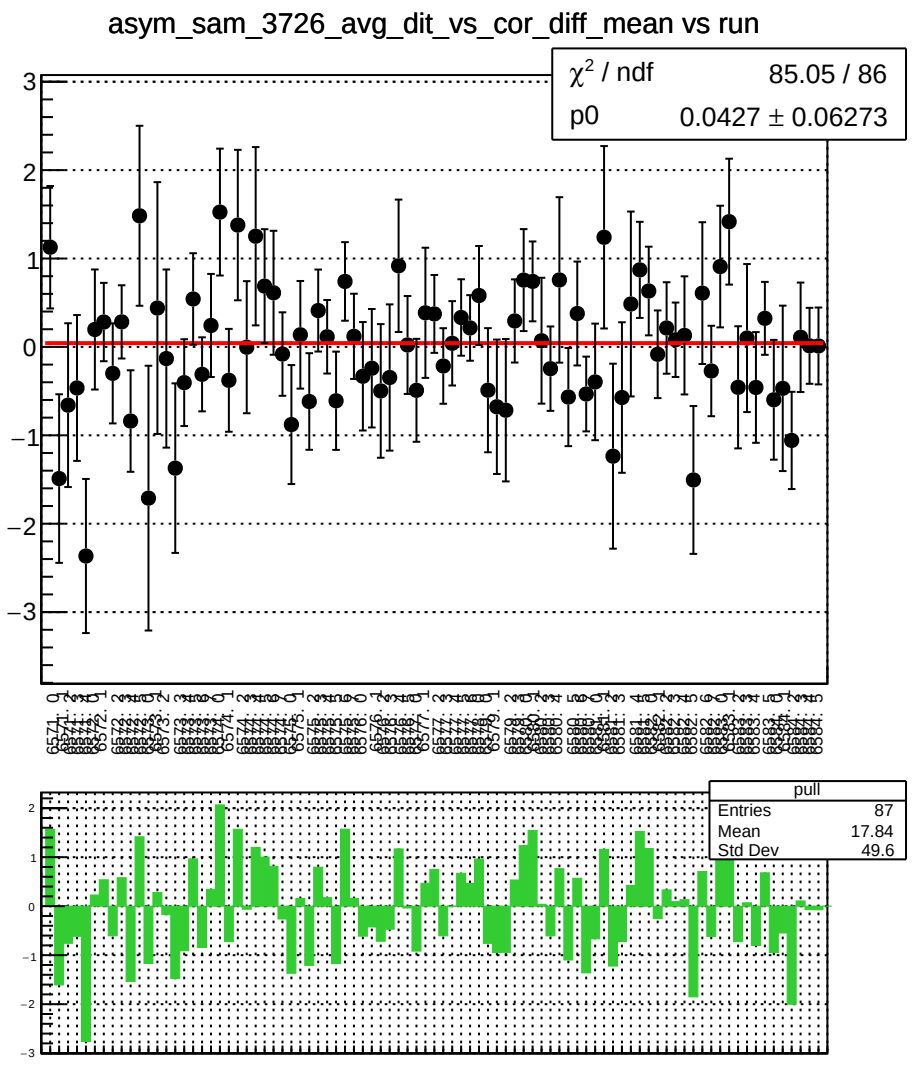

asym_sam_3726_avg_mean vs run
χ² / ndf 107.9 / 86
p0 1326 ± 634.5
pull
Entries 87
Mean 1220
Std Dev 0

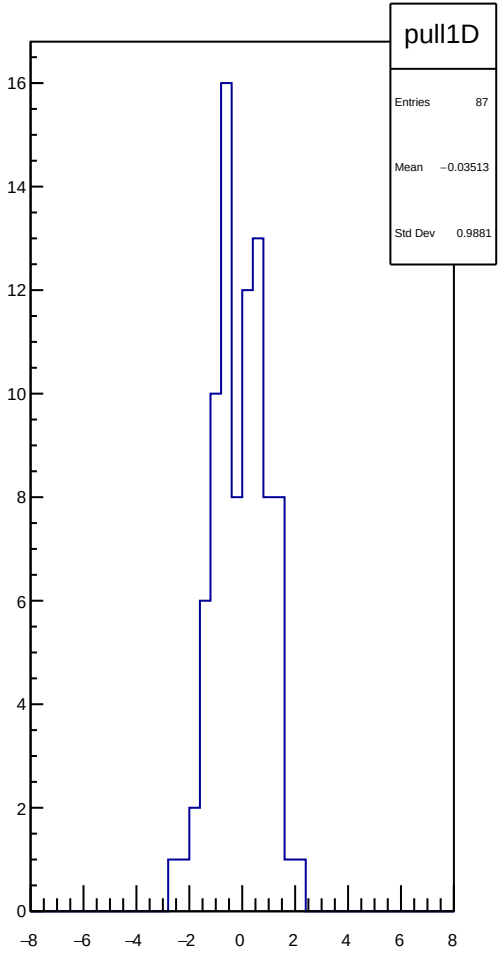

pull1D
Entries 87
Mean 0.002029
Std Dev 1.114

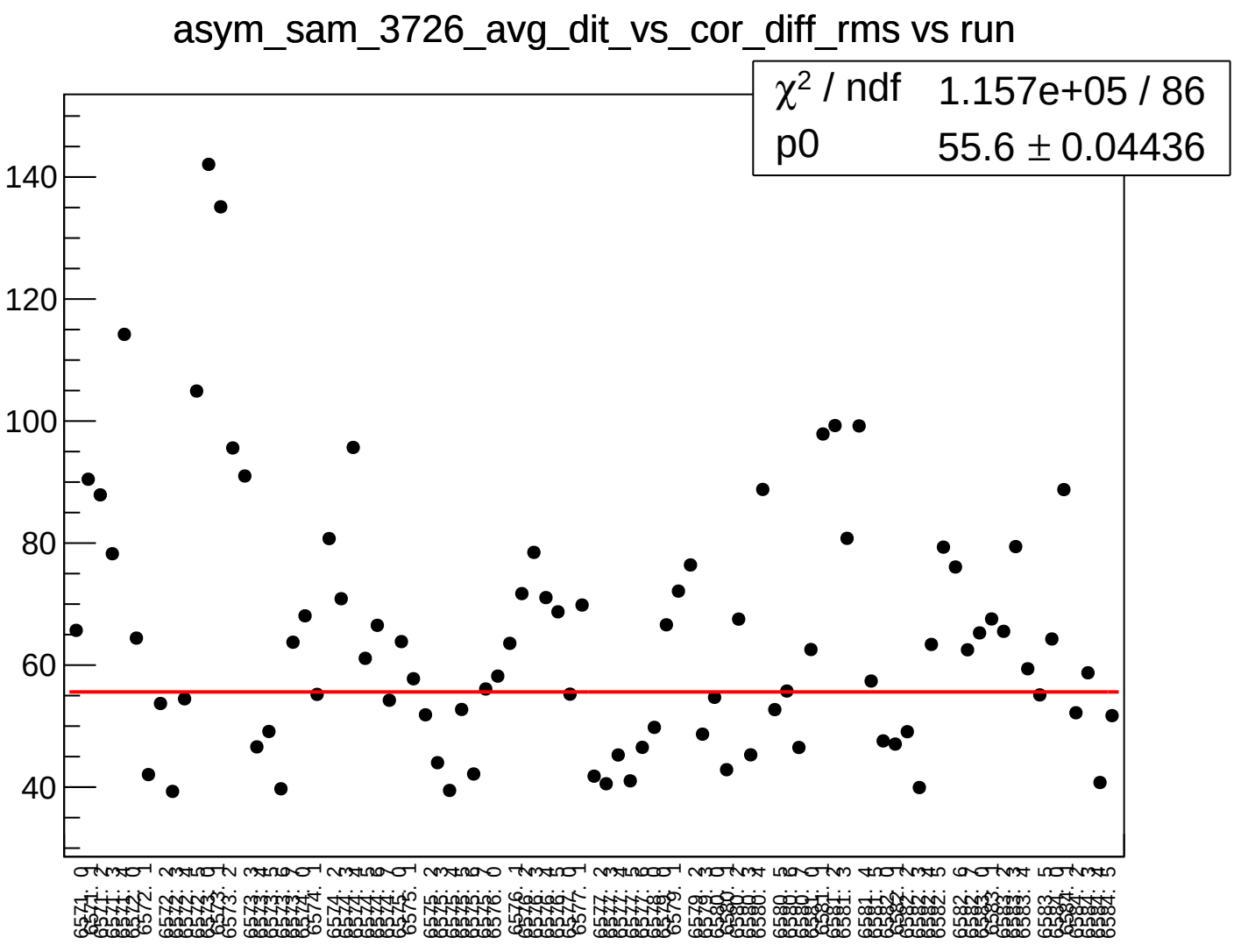

asym_sam_3726_avg_rms vs run
χ² / ndf 2.46e+04 / 86
p0 578.4 ± 0.4486
800
750
700
650
600
550
500
450

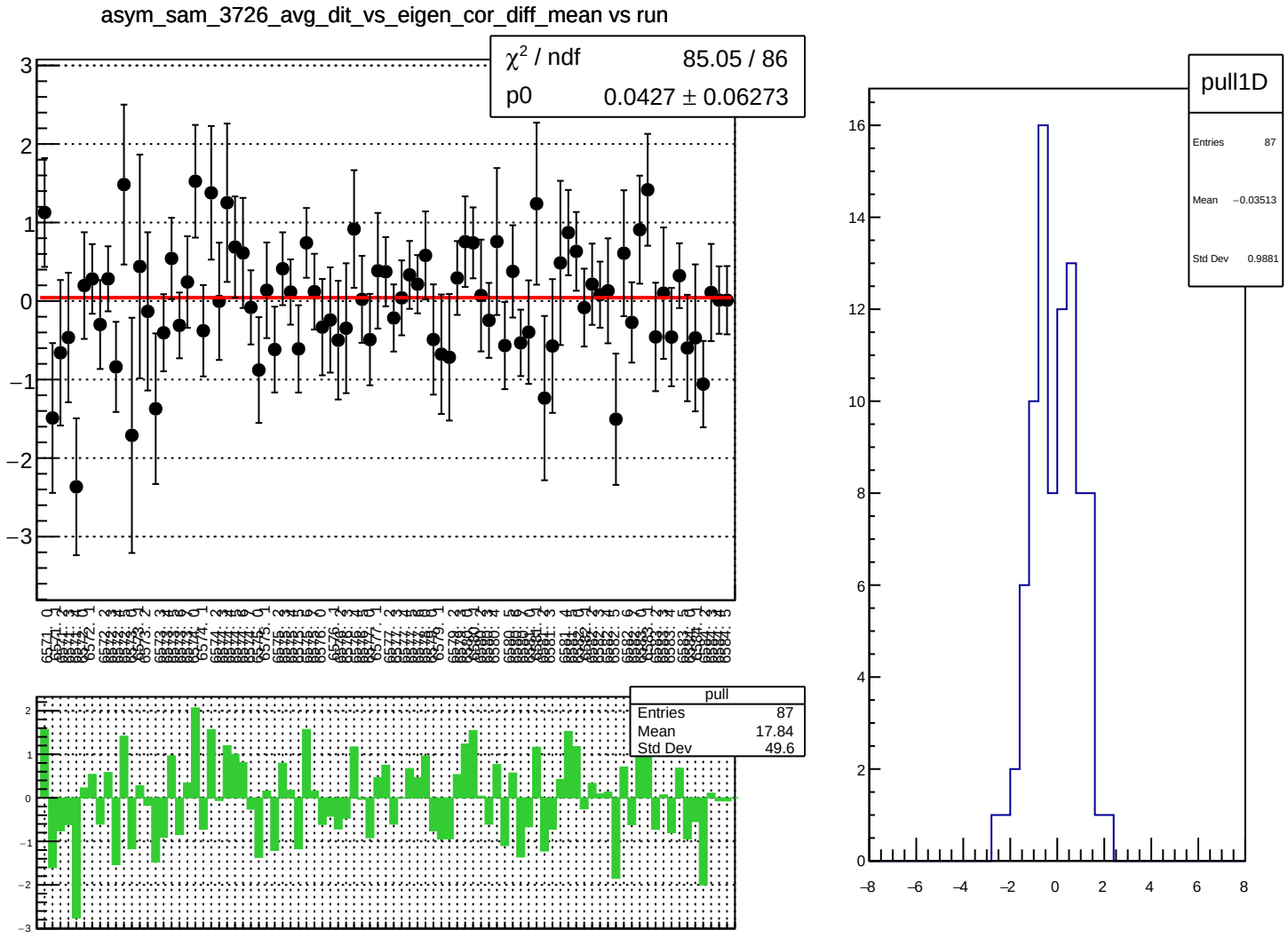

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.51 / 86
p0 −5.398e−14 ± 1.789e−14
pull
Entries 87
Mean 47.91
Std Dev 43.52
pull1D
Entries 87
Mean −0.08787
Std Dev 0.999

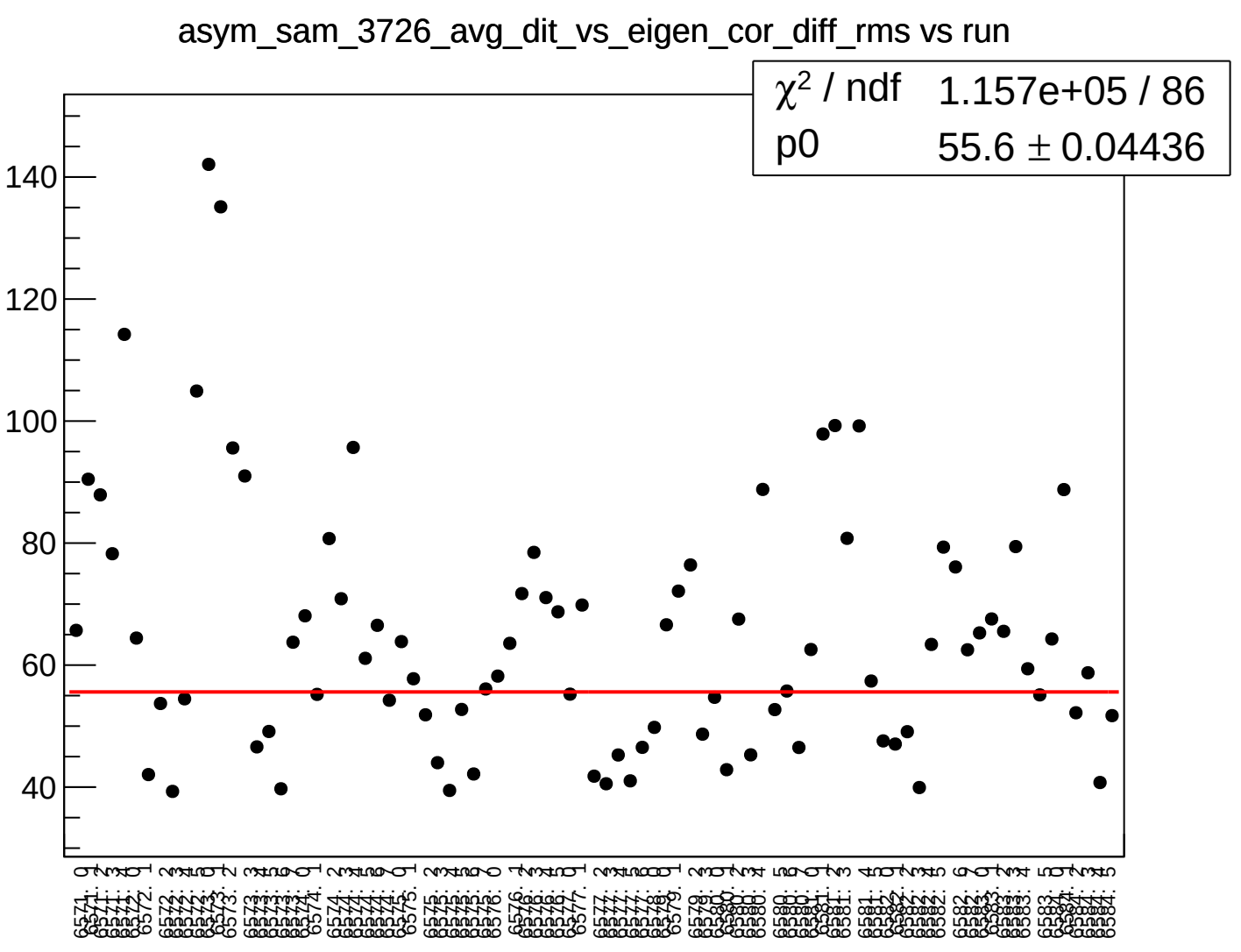

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.127e+06 / 86
p0 9.463e−12 ± 1.265e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

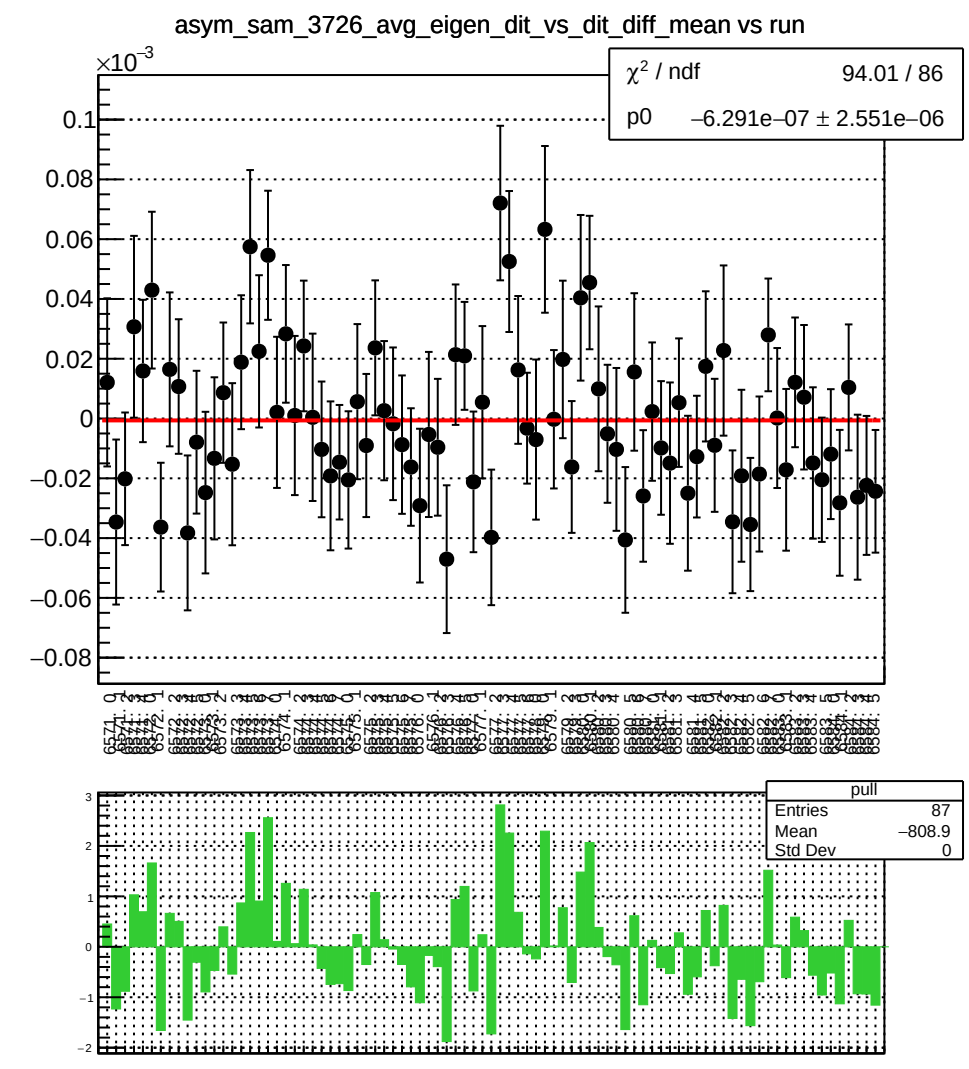

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.05 / 86
p0 0.0427 ± 0.06273
pull
Entries 87
Mean 17.84
Std Dev 49.6

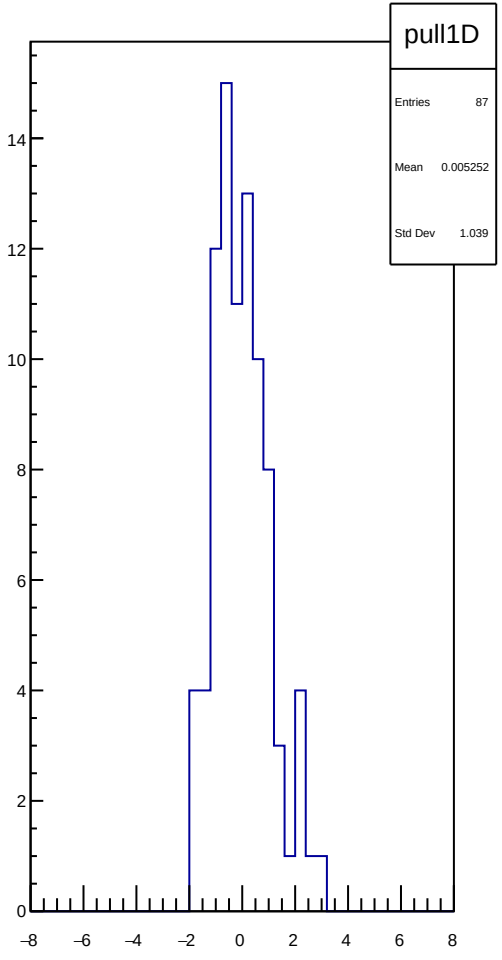

pull1D
Entries 87
Mean −0.03513
Std Dev 0.9881

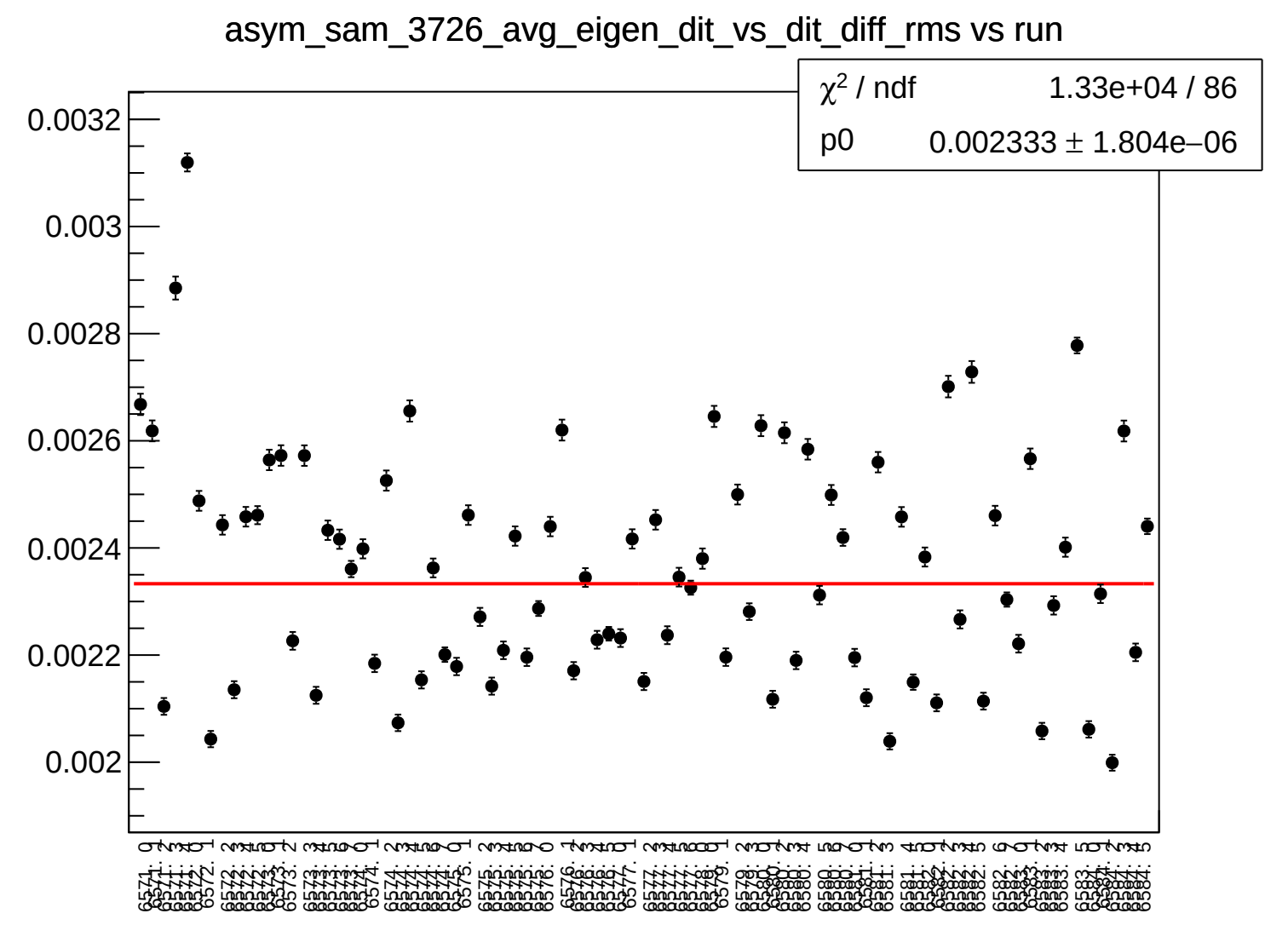

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 86
p0 55.6 ± 0.04436
140
120
100
80
60
40

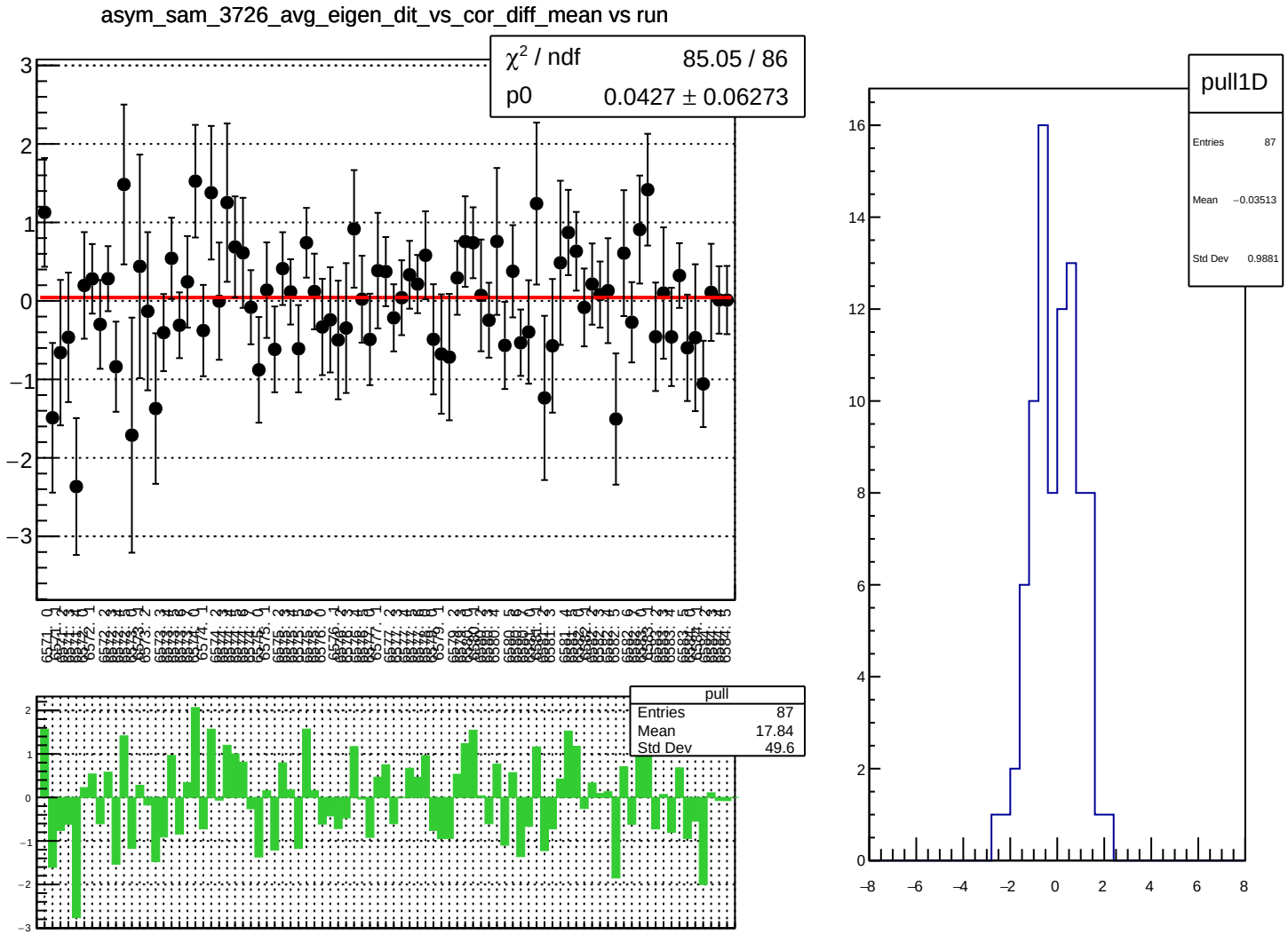

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.05 / 86
p0 0.0427 ± 0.06273
pull
Entries 87
Mean 17.84
Std Dev 49.6
pull1D
Entries 87
Mean −0.03513
Std Dev 0.9881

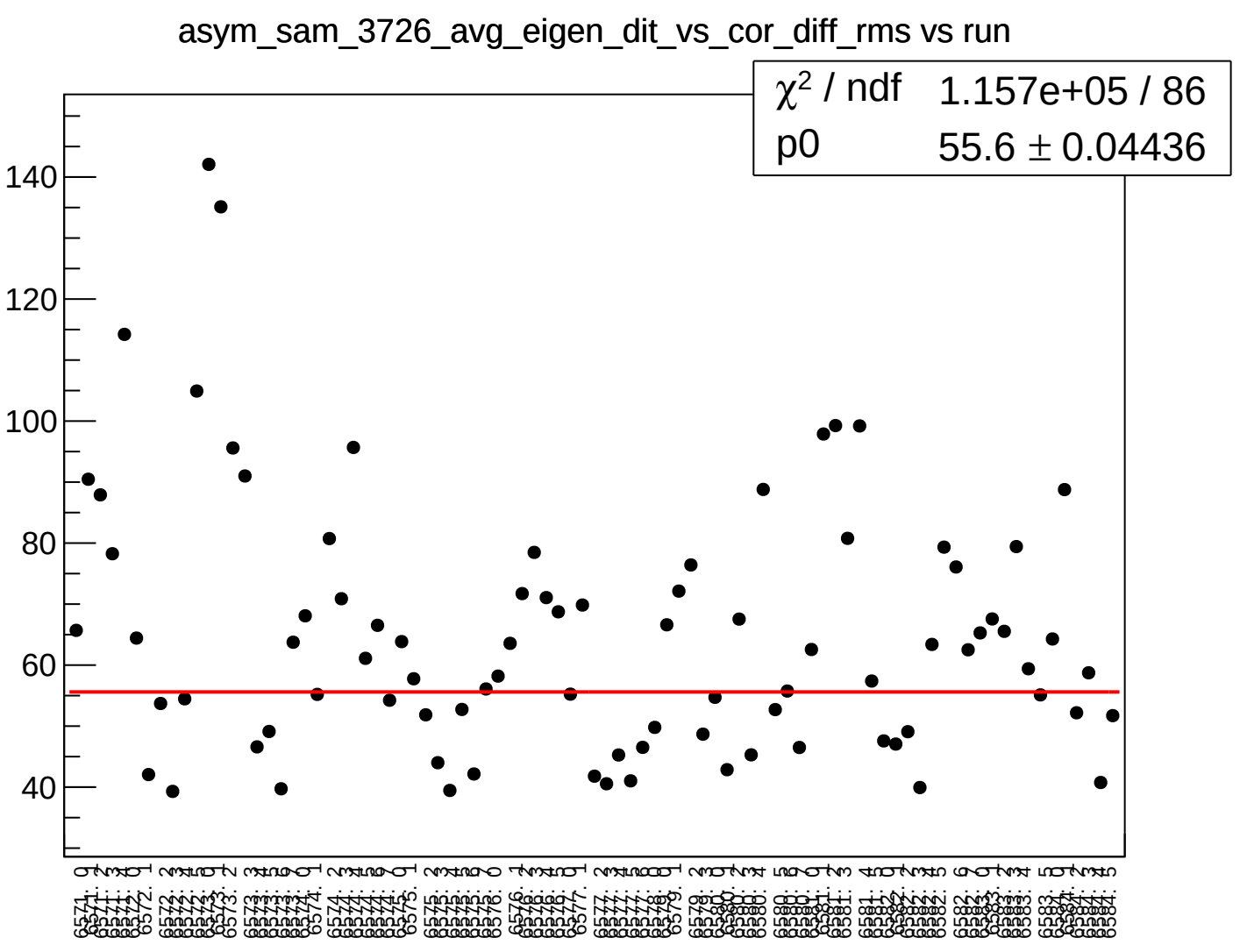

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 86
p0 55.6 ± 0.04436
140
120
100
80
60
40

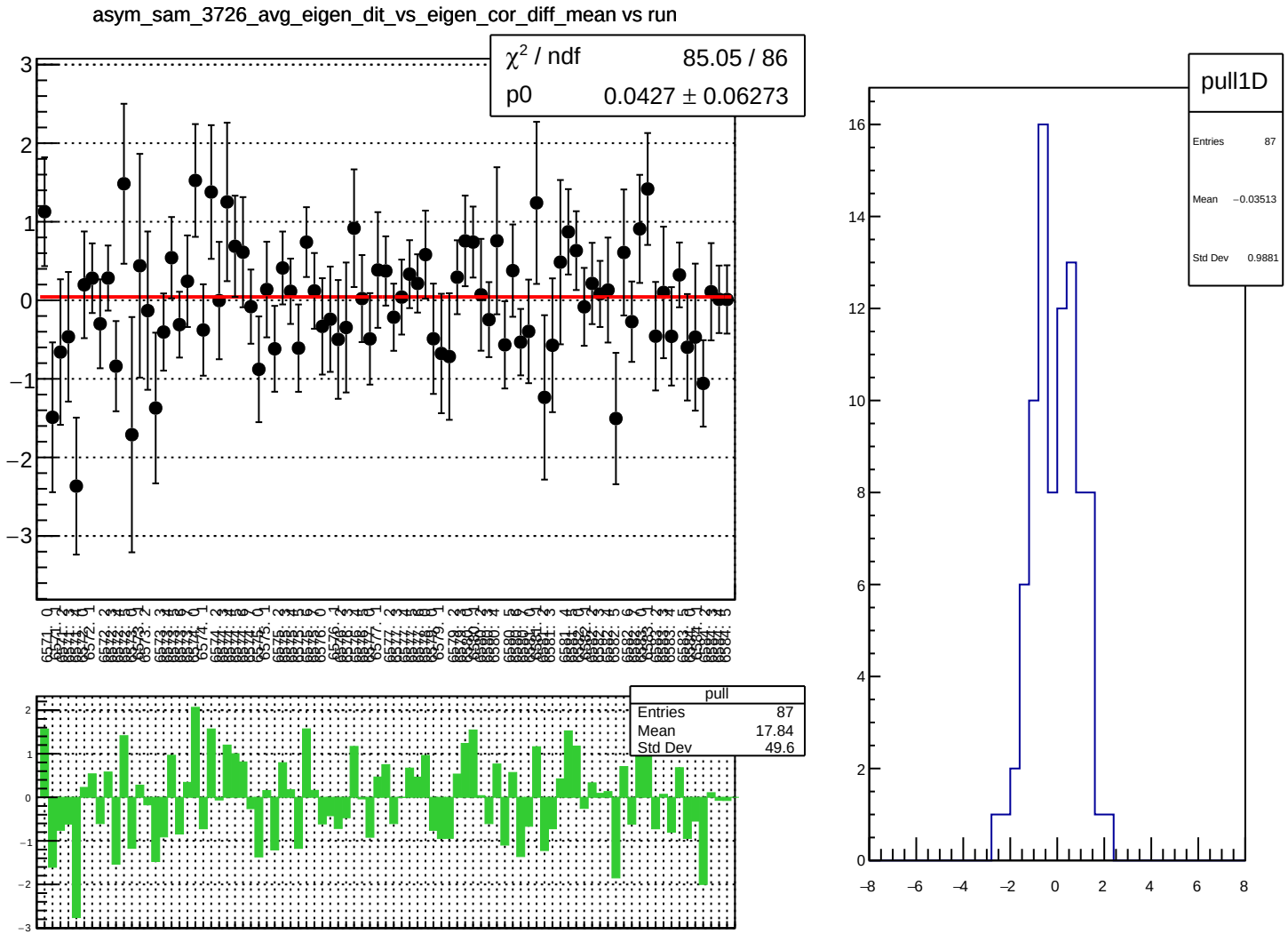

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.01 / 86
p0 –6.291e–07 ± 2.551e–06
pull
Entries 87
Mean –808.9
Std Dev 0

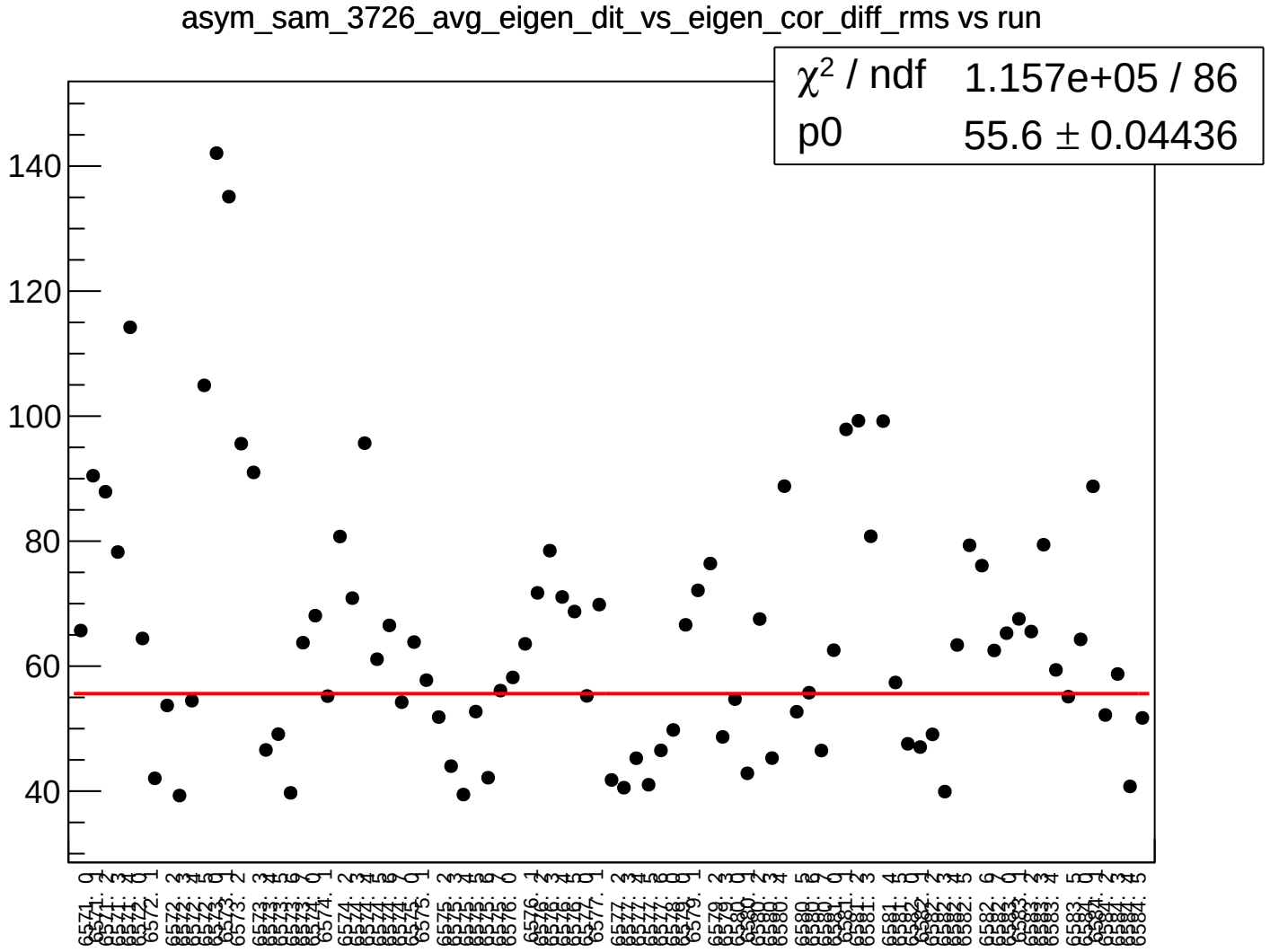

pull1D
Entries 87
Mean 0.005252
Std Dev 1.039

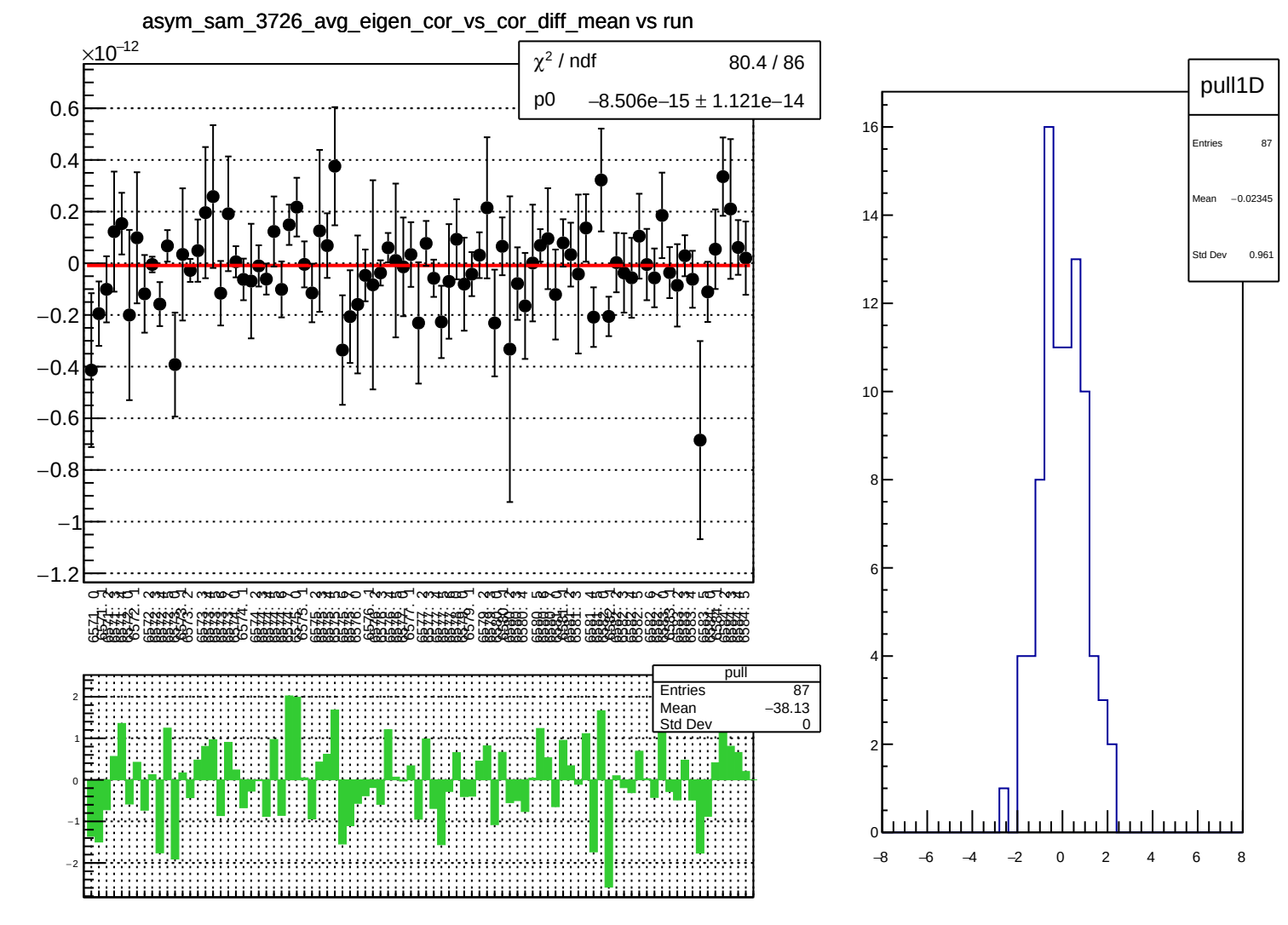

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.33e+04 / 86
p0 0.002333 ± 1.804e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

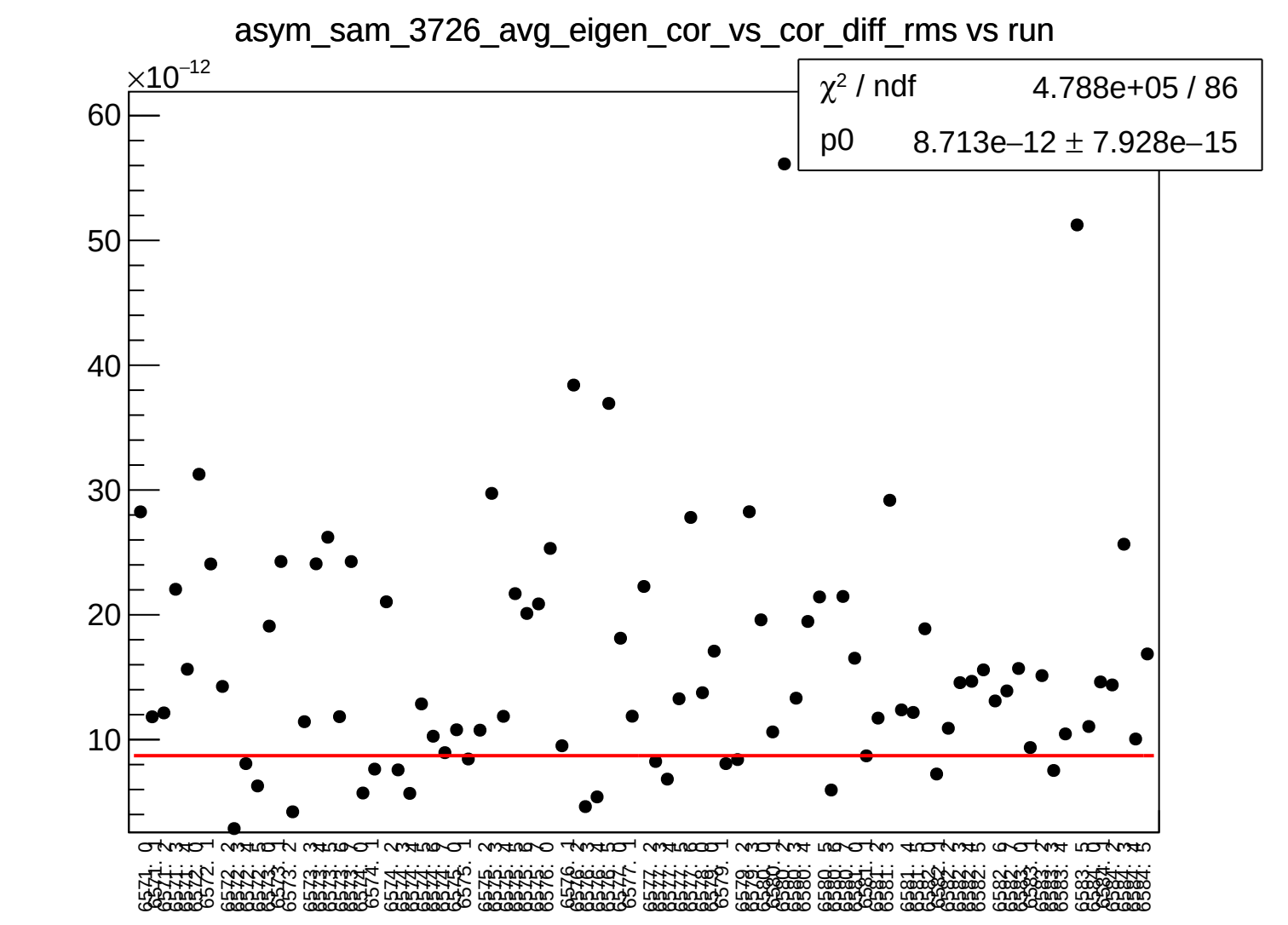

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.05 / 86
p0 0.0427 ± 0.06273
pull
Entries 87
Mean 17.84
Std Dev 49.6
pull1D
Entries 87
Mean −0.03513
Std Dev 0.9881

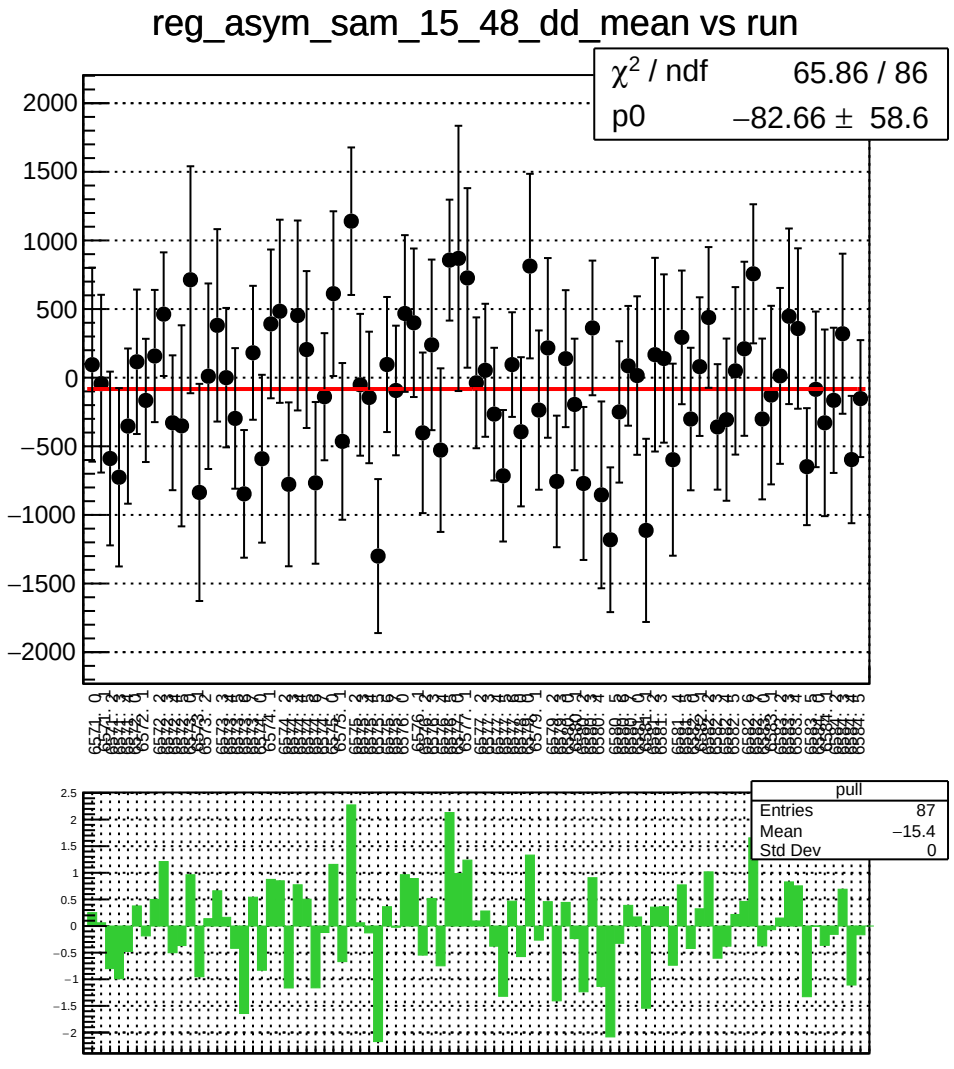

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 86
p0 55.6 ± 0.04436
140
120
100
80
60
40

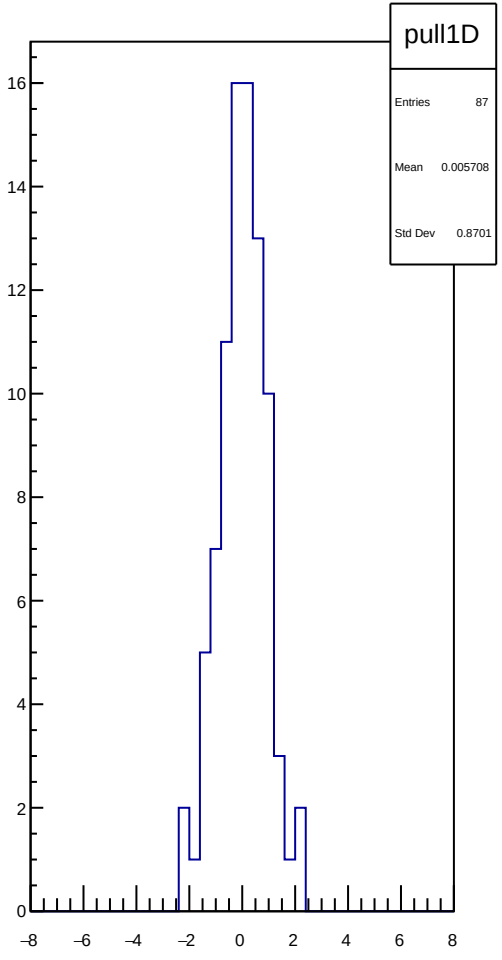

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.05 / 86
p0 0.0427 ± 0.06273
pull
Entries 87
Mean 17.84
Std Dev 49.6
pull1D
Entries 87
Mean −0.03513
Std Dev 0.9881

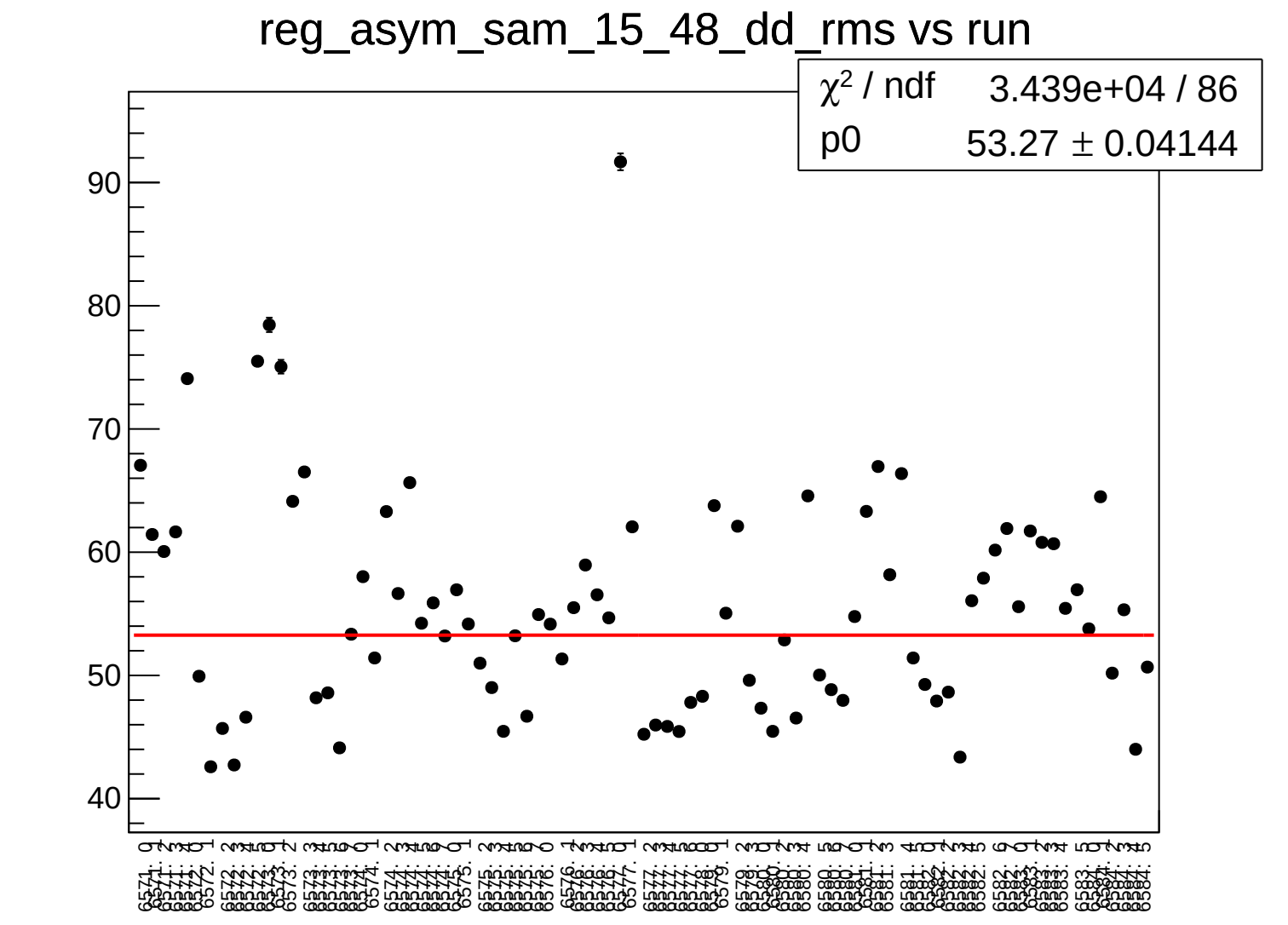

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 86
p0 55.6 ± 0.04436
140
120
100
80
60
40

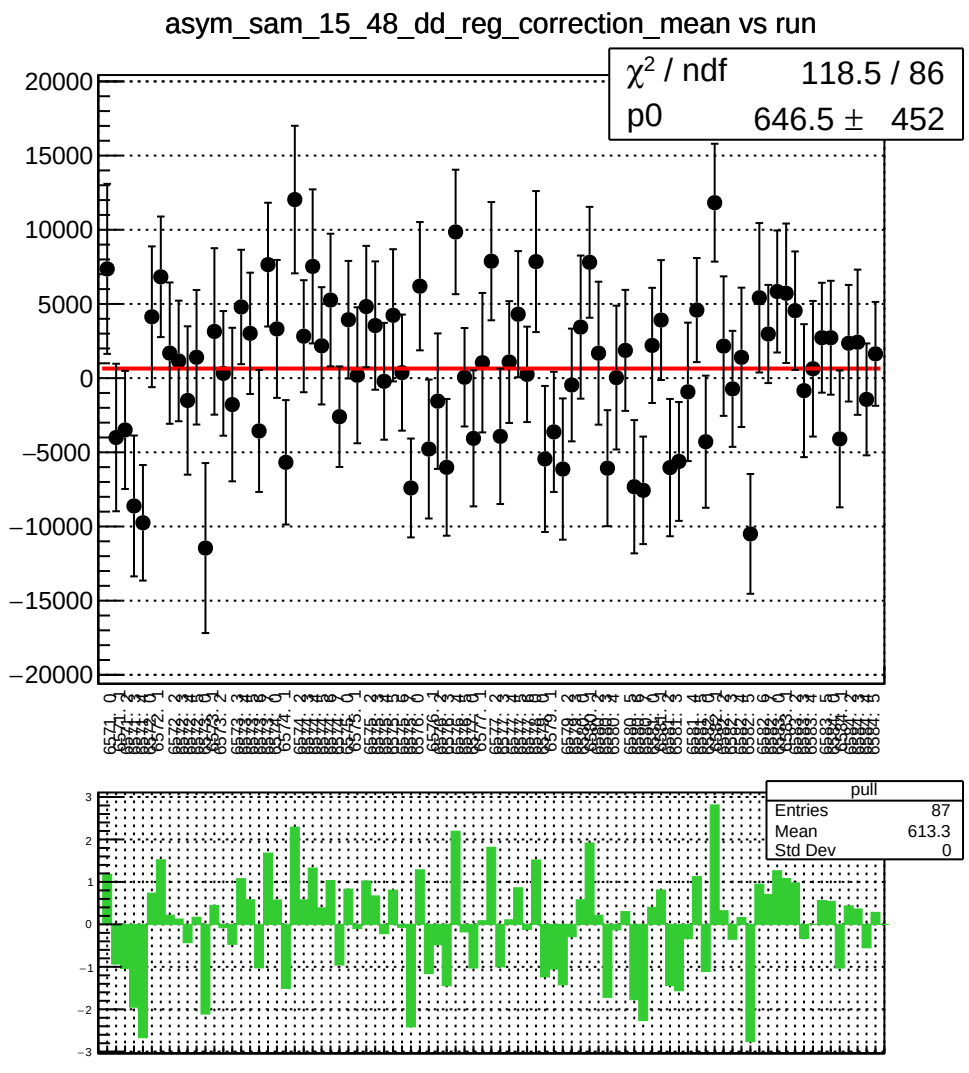

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.4 / 86
p0 −8.506e−15 ± 1.121e−14
pull
Entries 87
Mean −38.13
Std Dev 0
pull1D
Entries 87
Mean −0.02345
Std Dev 0.961

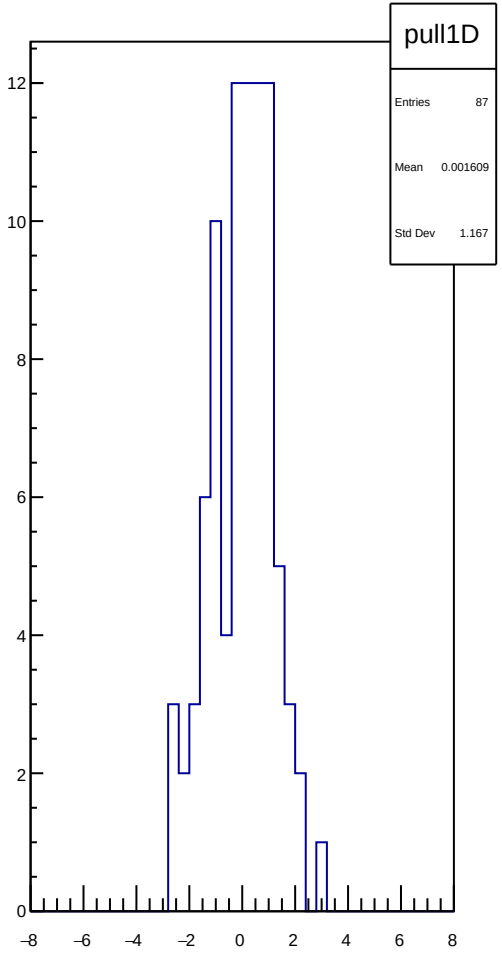

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.788e+05 / 86
p0 8.713e−12 ± 7.928e−15
60
50
40
30
20
10

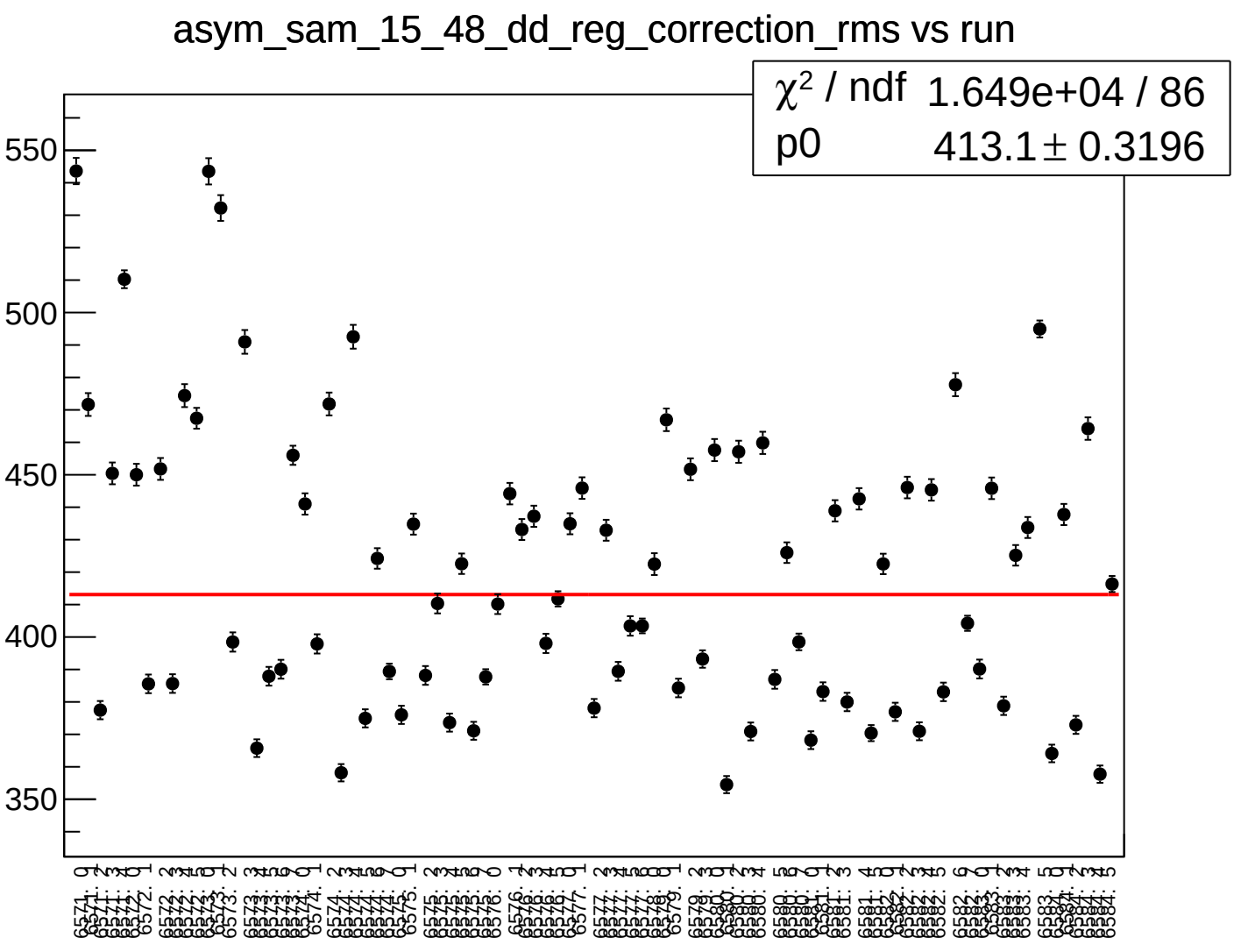

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 65.86 / 86
p0 −82.66 ± 58.6
pull
Entries 87
Mean −15.4
Std Dev 0

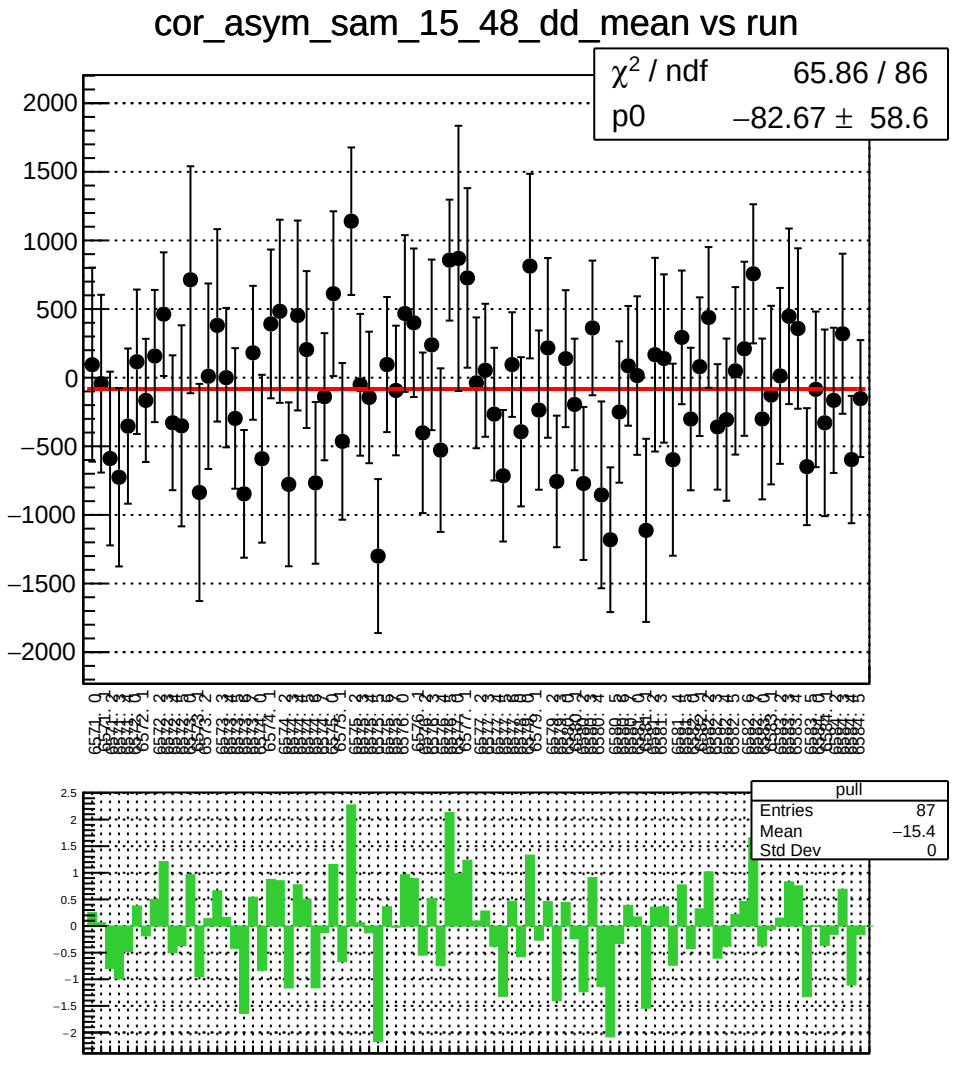

pull1D
Entries 87
Mean 0.005708
Std Dev 0.8701

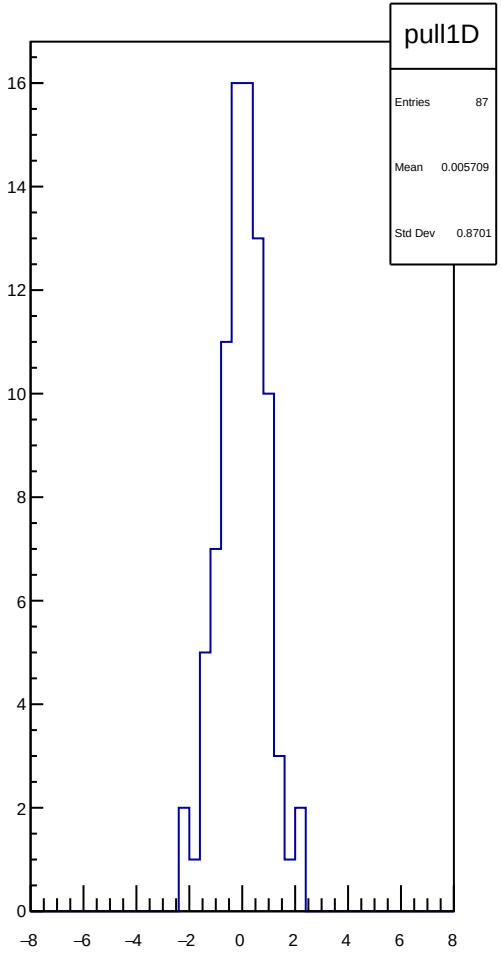

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.439e+04 / 86
p0 53.27 ± 0.04144
90
80
70
60
50
40

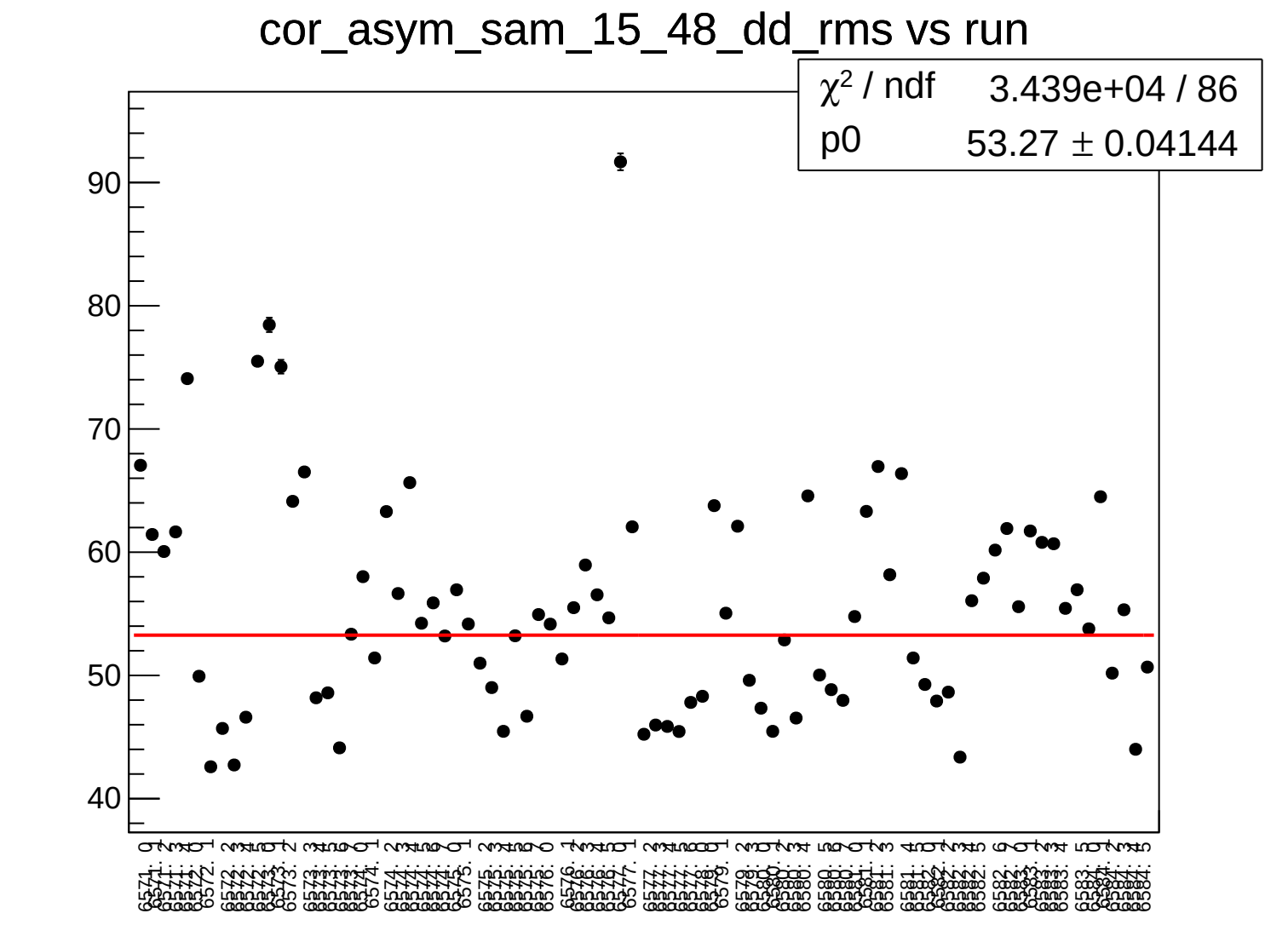

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 118.5 / 86
p0 646.5 ± 452
pull
Entries 87
Mean 613.3
Std Dev 0

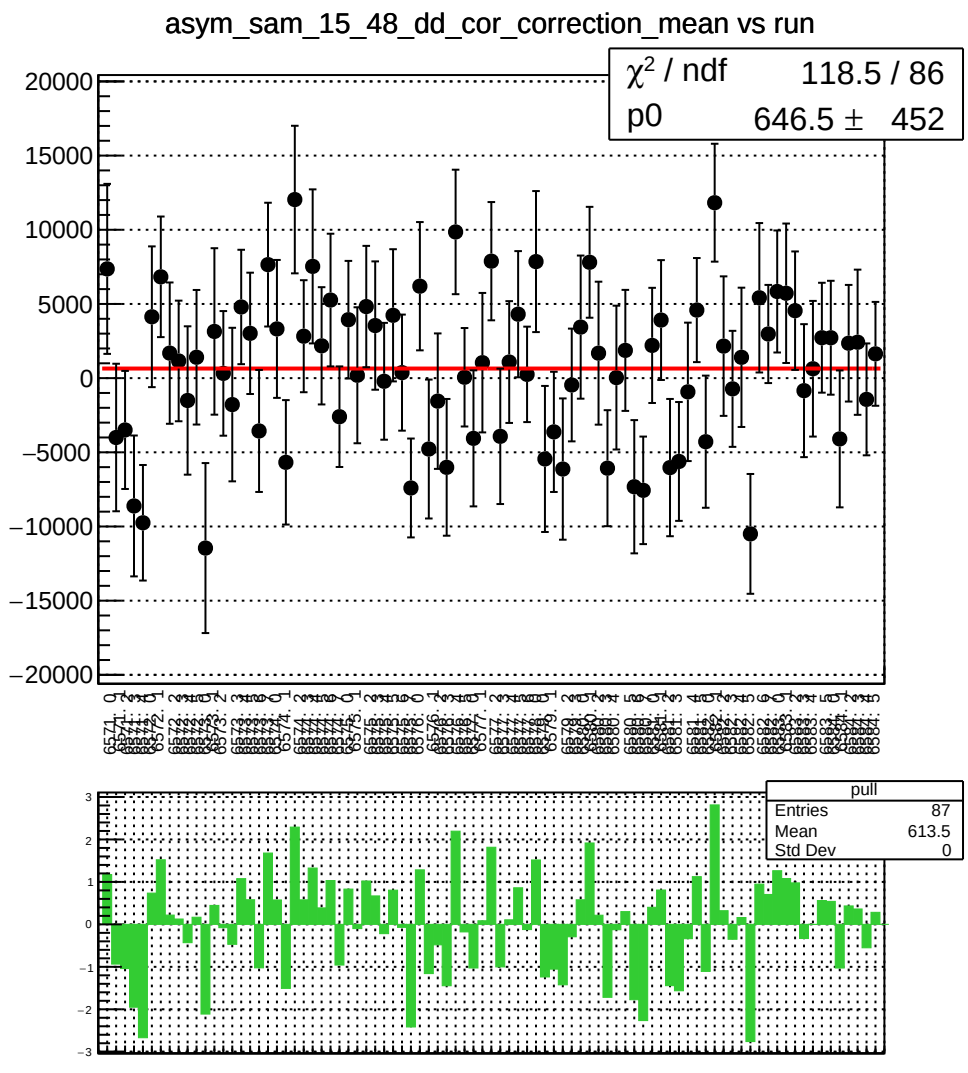

pull1D
Entries 87
Mean 0.001609
Std Dev 1.167

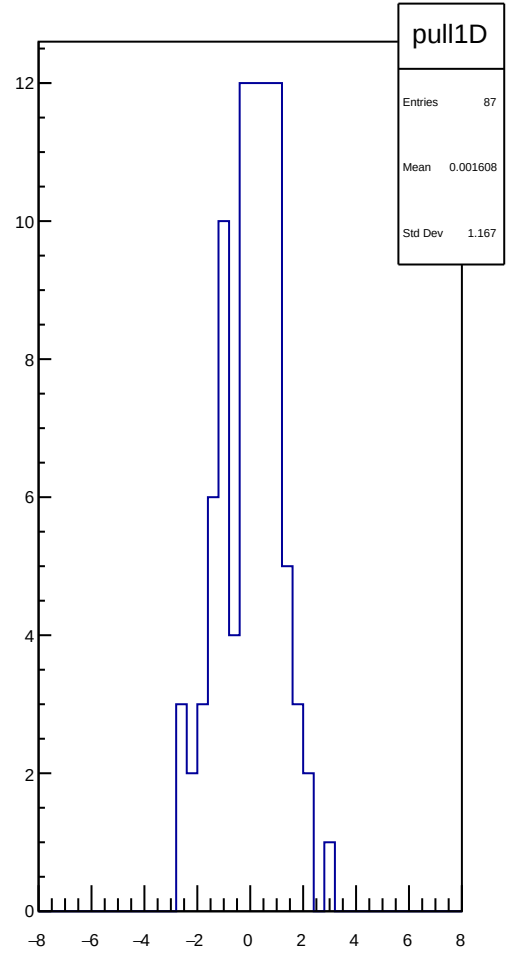

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.649e+04 / 86
p0 413.1 ± 0.3196
550
500
450
400
350

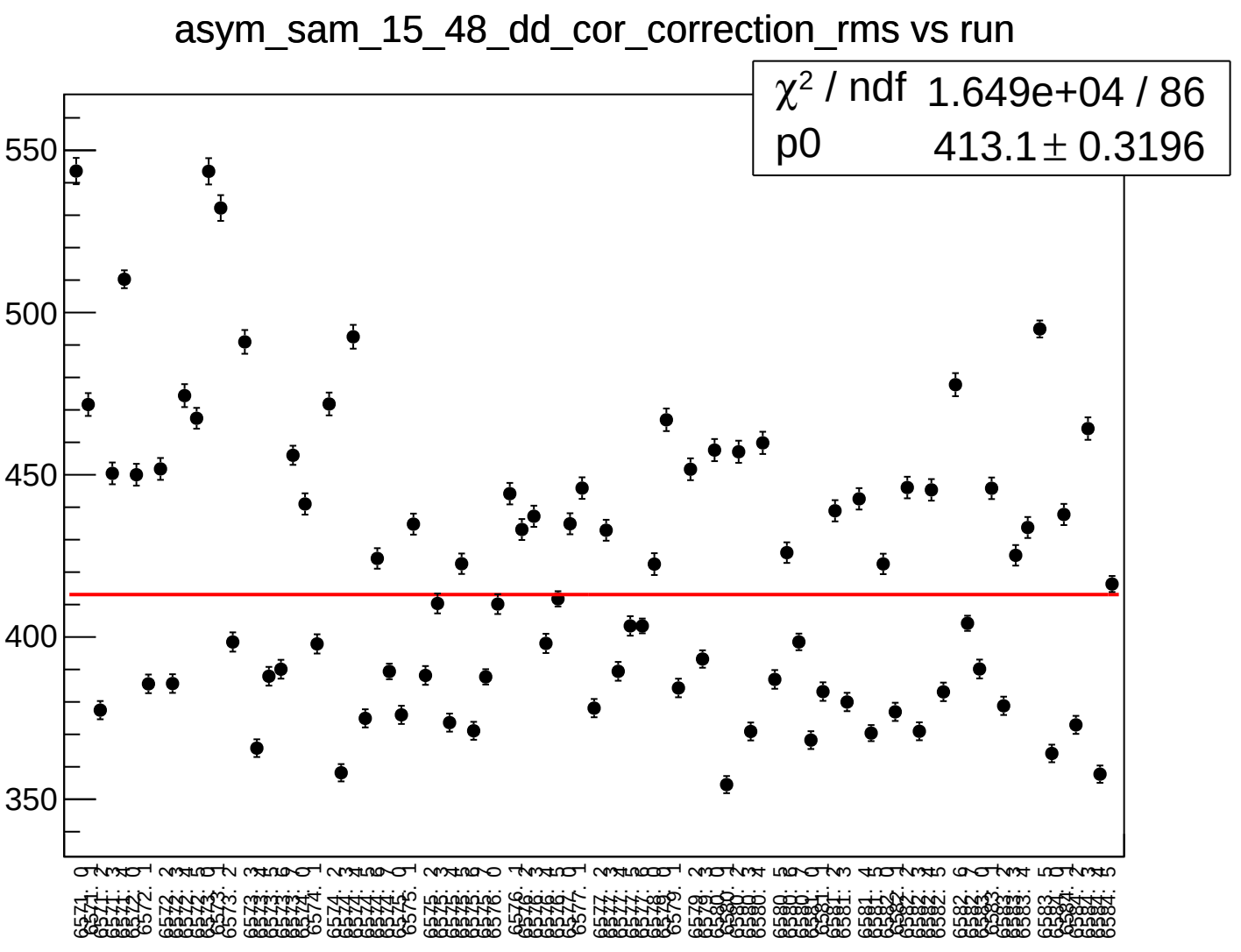

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 65.86 / 86
p0 −82.67 ± 58.6
pull
Entries 87
Mean −15.4
Std Dev 0

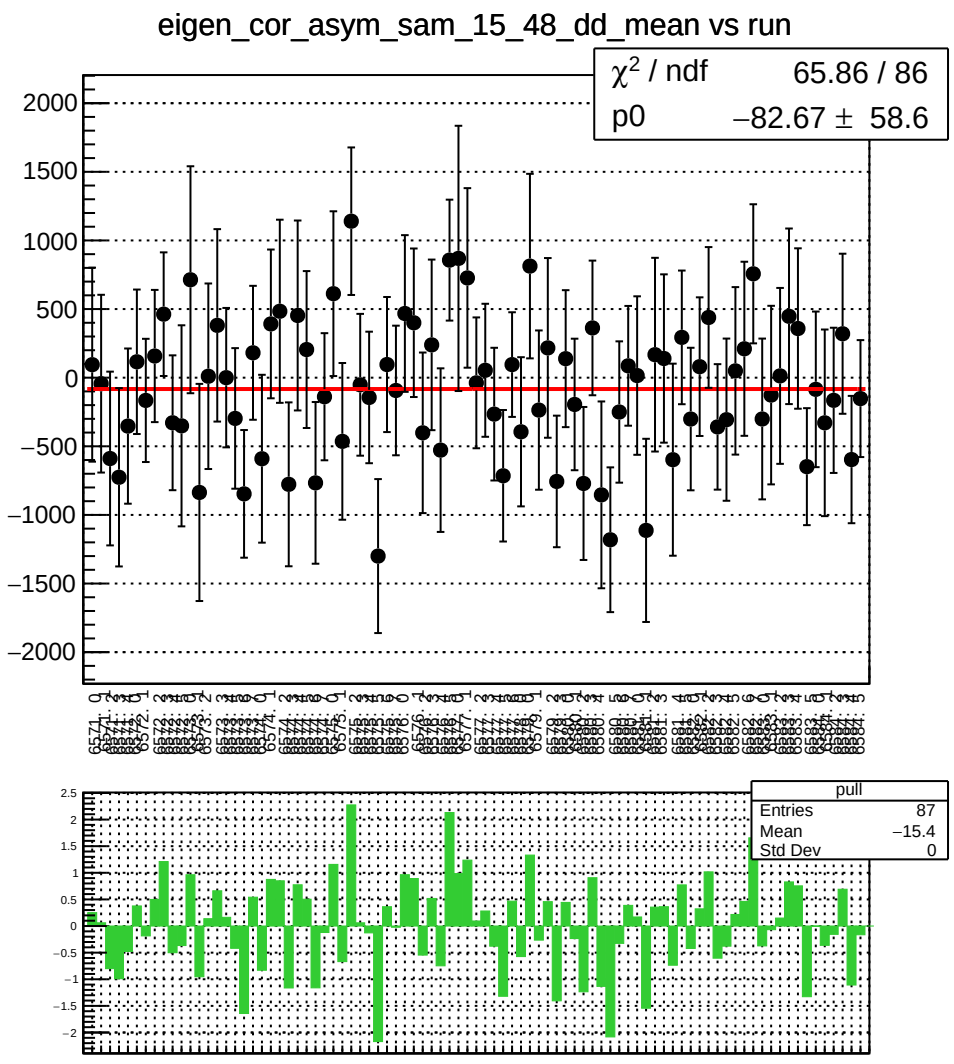

pull1D
Entries 87
Mean 0.005709
Std Dev 0.8701

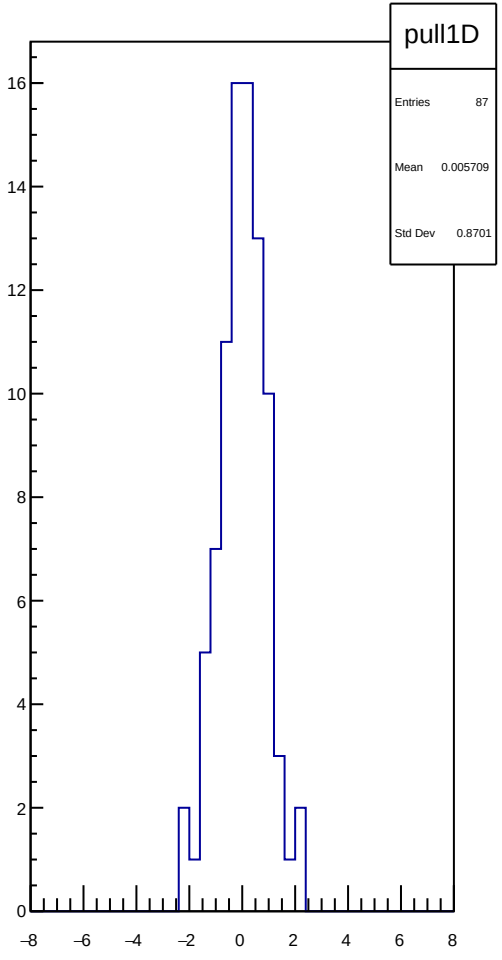

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.439e+04 / 86
p0 53.27 ± 0.04144
90
80
70
60
50
40

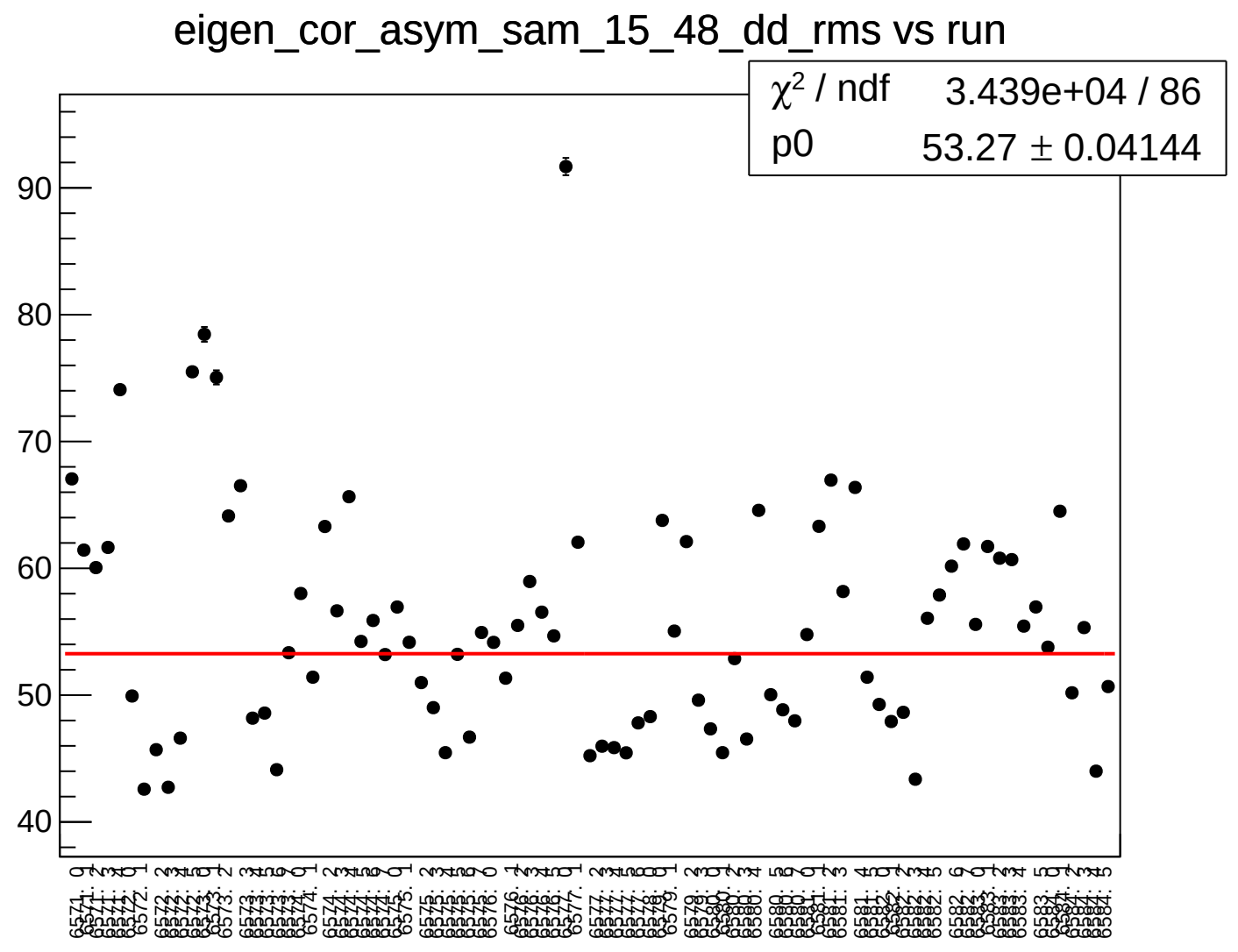

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 118.5 / 86
p0 646.5 ± 452
pull
Entries 87
Mean 613.5
Std Dev 0

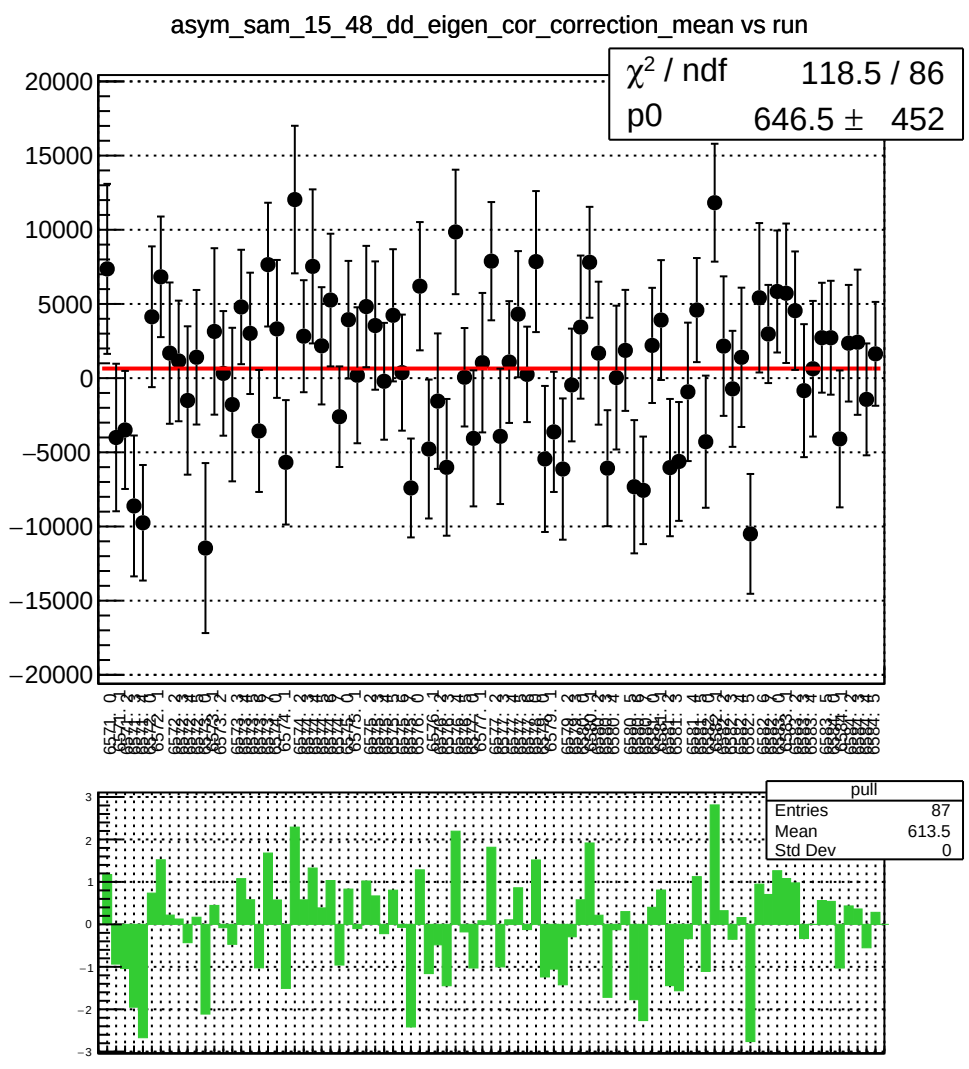

pull1D
Entries 87
Mean 0.001608
Std Dev 1.167

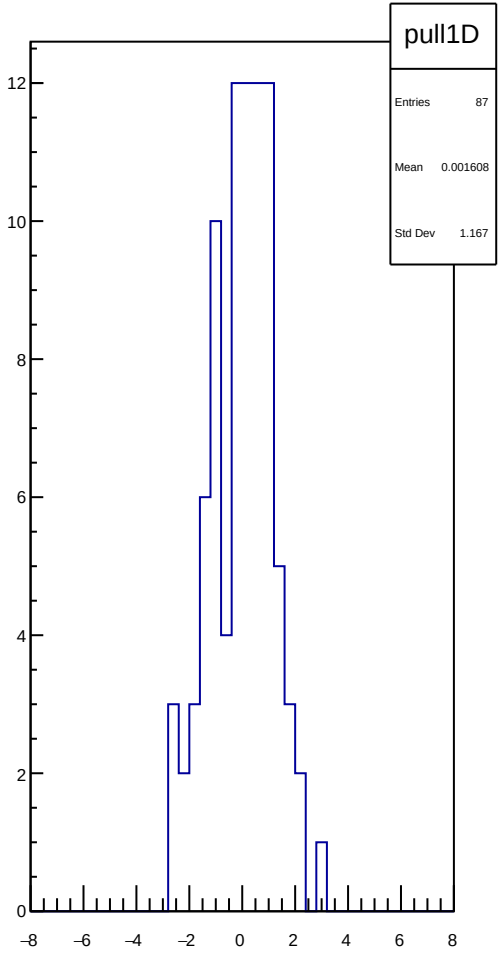

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.649e+04 / 86
p0 413.1 ± 0.3196
550
500
450
400
350

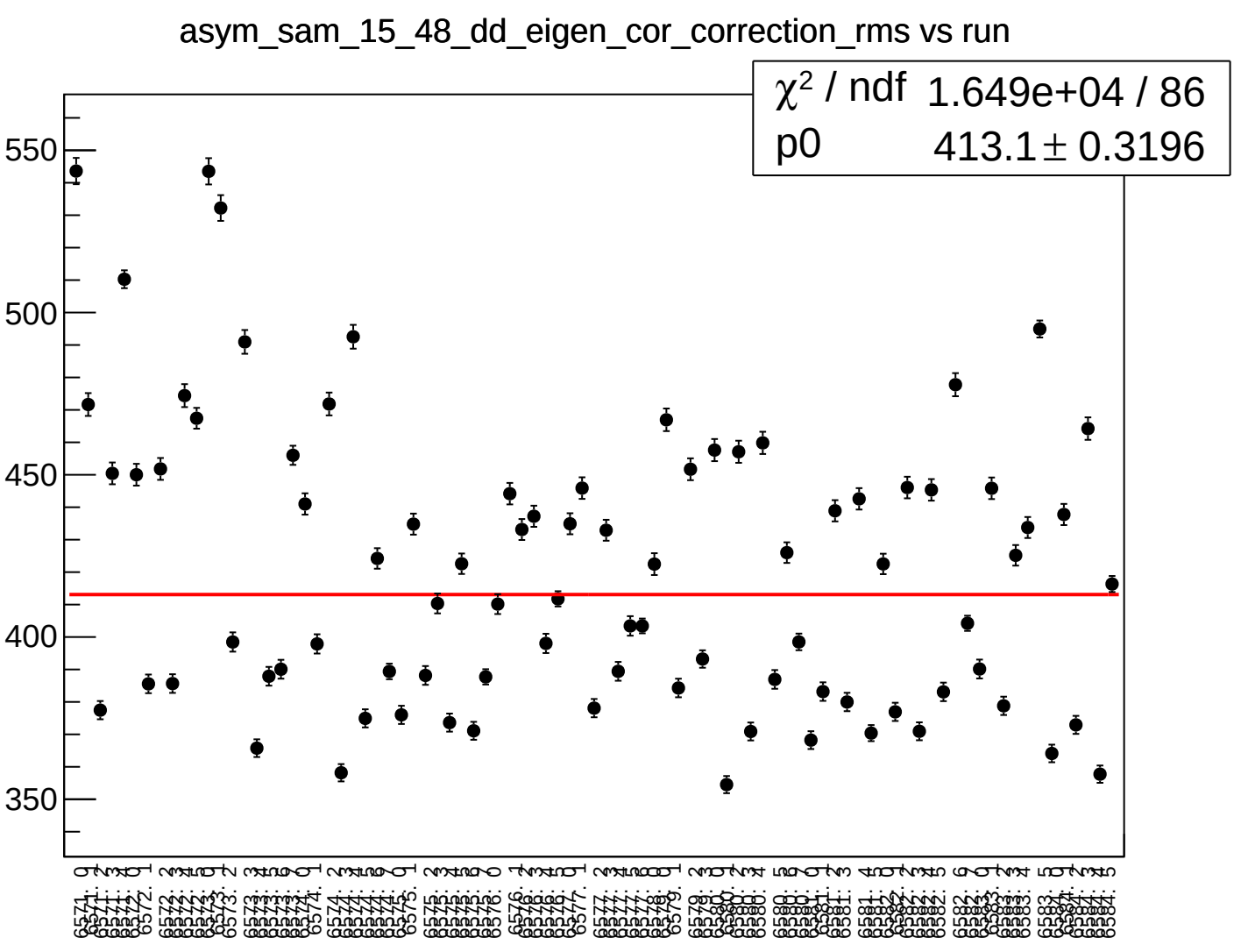

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 65.86 / 86
p0 −82.67 ± 58.6
pull
Entries 87
Mean −15.4
Std Dev 0

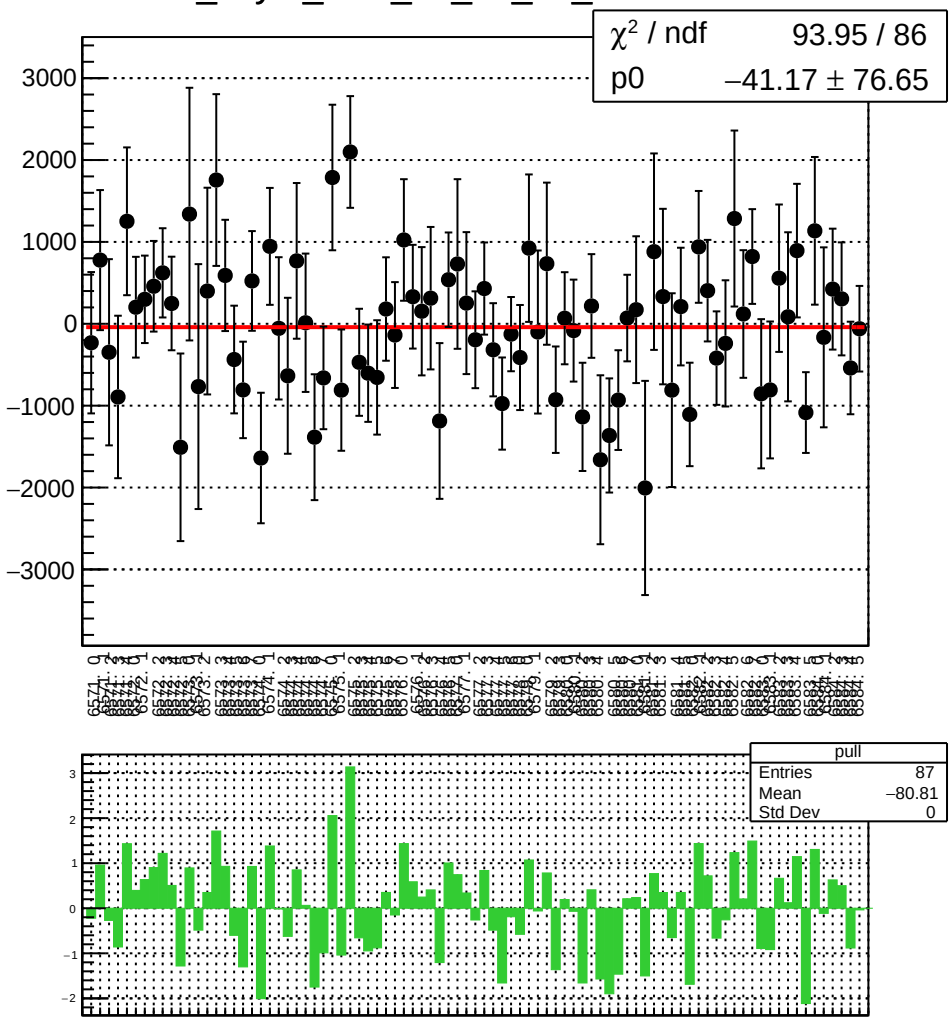

pull1D
Entries 87
Mean 0.005709
Std Dev 0.8701

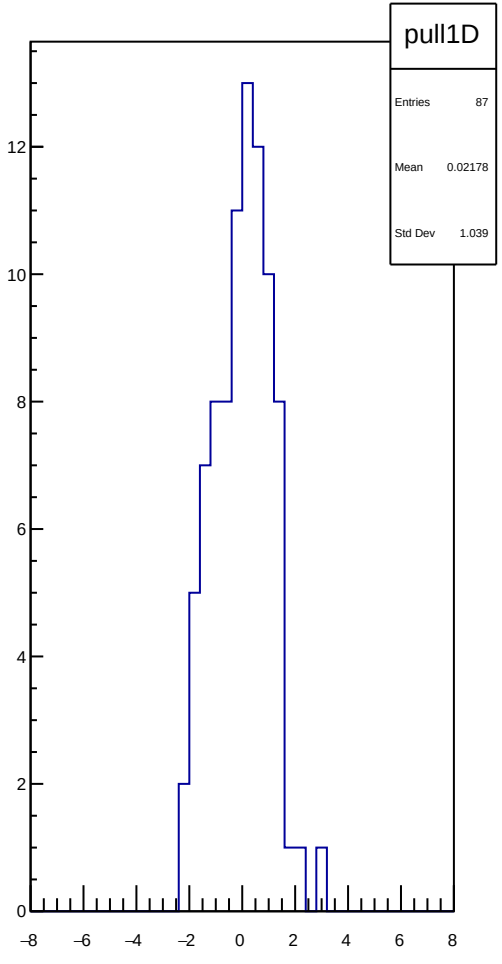

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.439e+04 / 86
p0 53.27 ± 0.04144
90
80
70
60
50
40

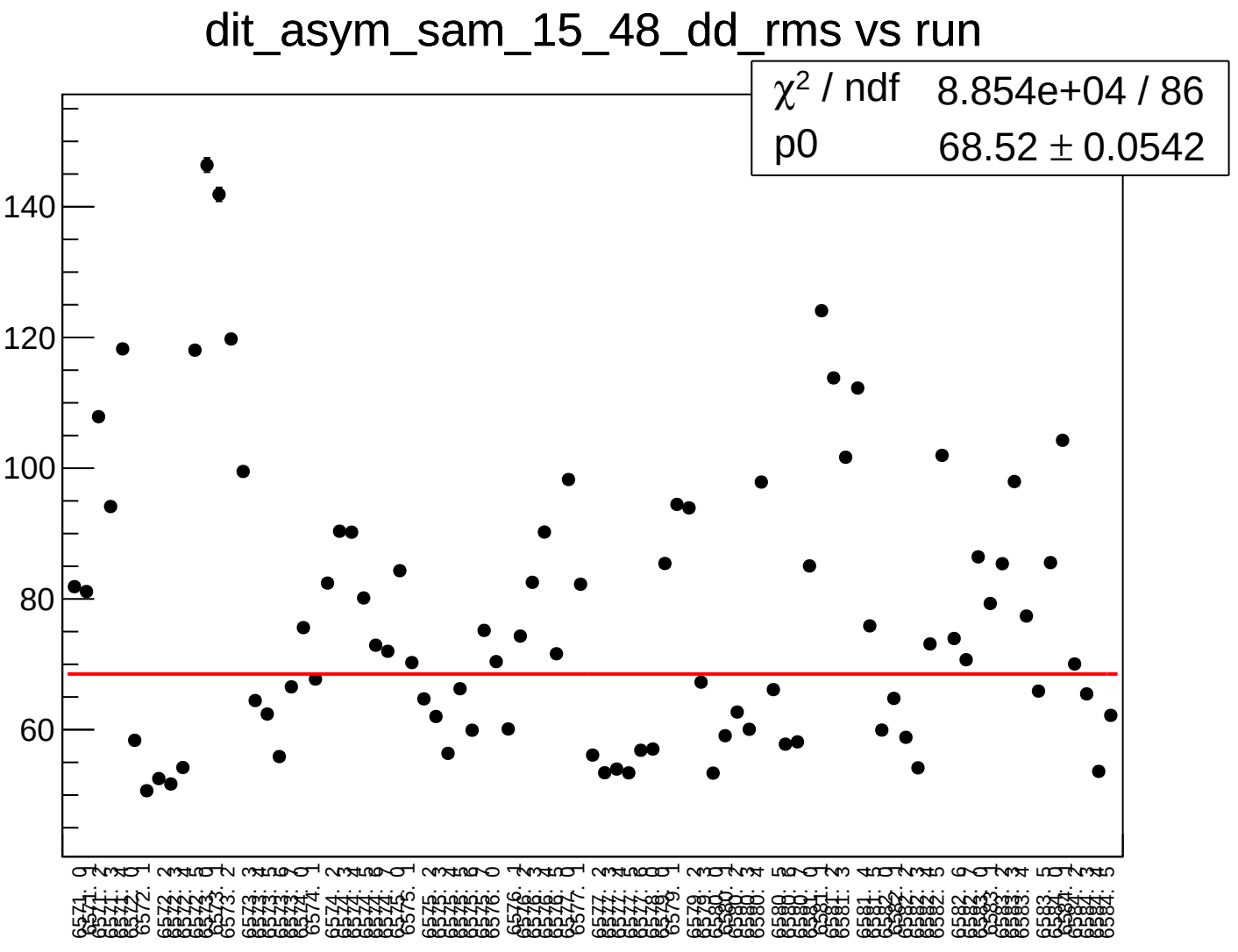

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 118.5 / 86
p0 646.5 ± 452
pull
Entries 87
Mean 613.5
Std Dev 0

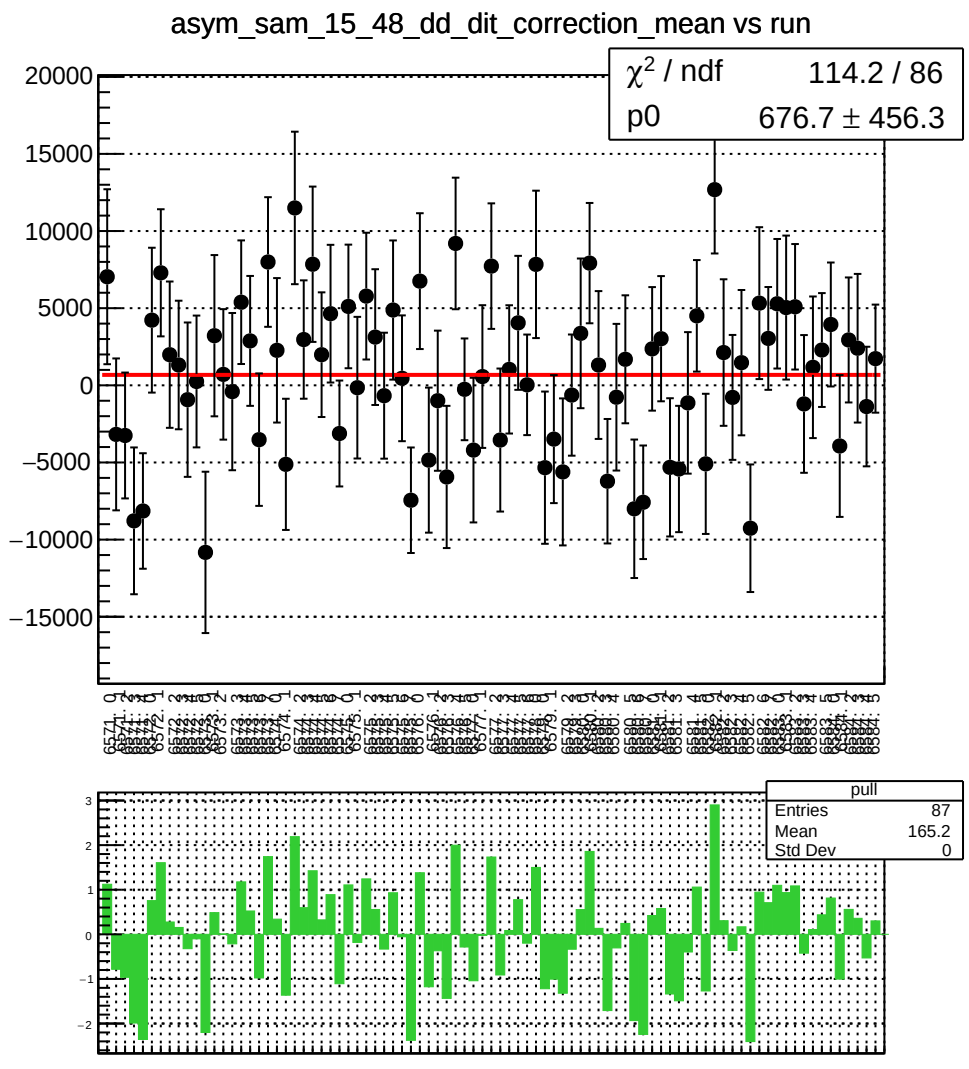

pull1D
Entries 87
Mean 0.001608
Std Dev 1.167

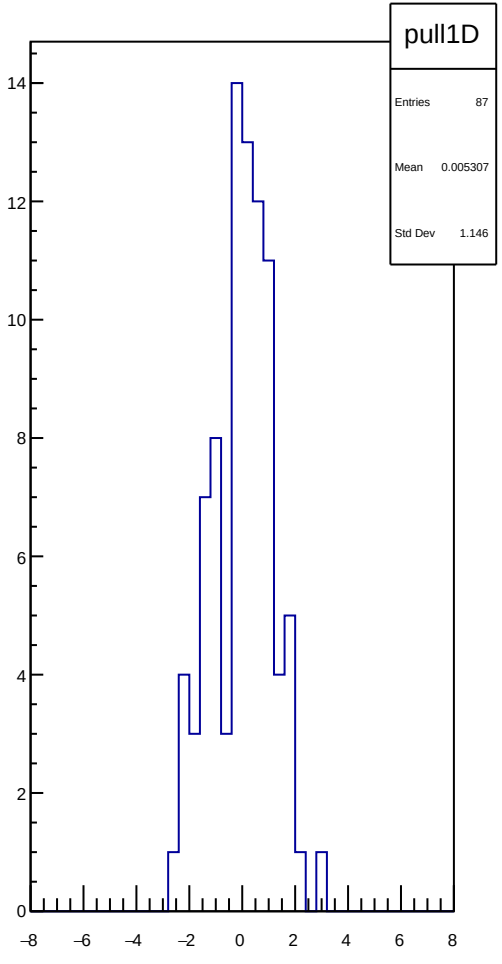

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.649e+04 / 86
p0 413.1 ± 0.3196
550
500
450
400
350

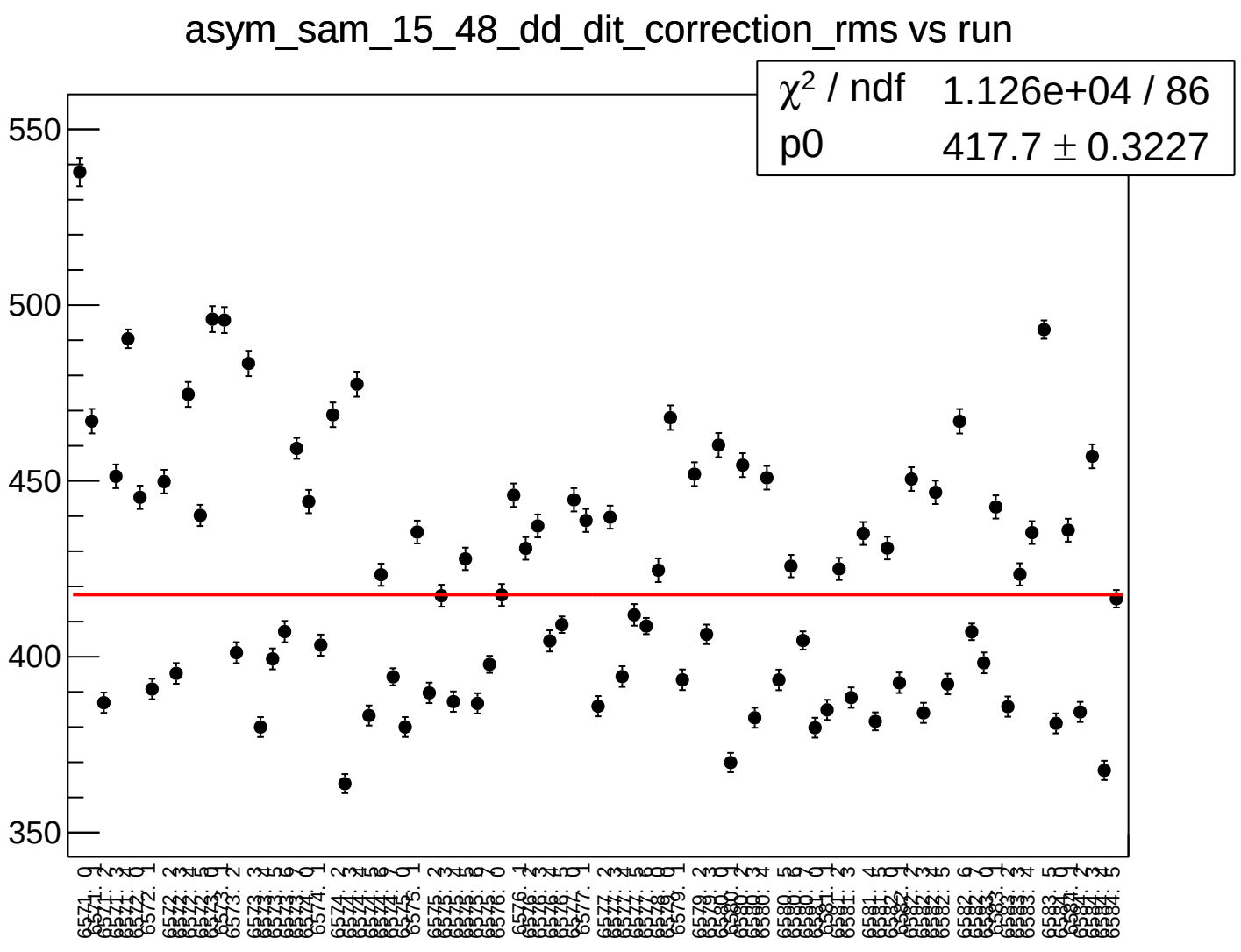

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 93.95 / 86
p0 −41.17 ± 76.65
pull
Entries 87
Mean −80.81
Std Dev 0

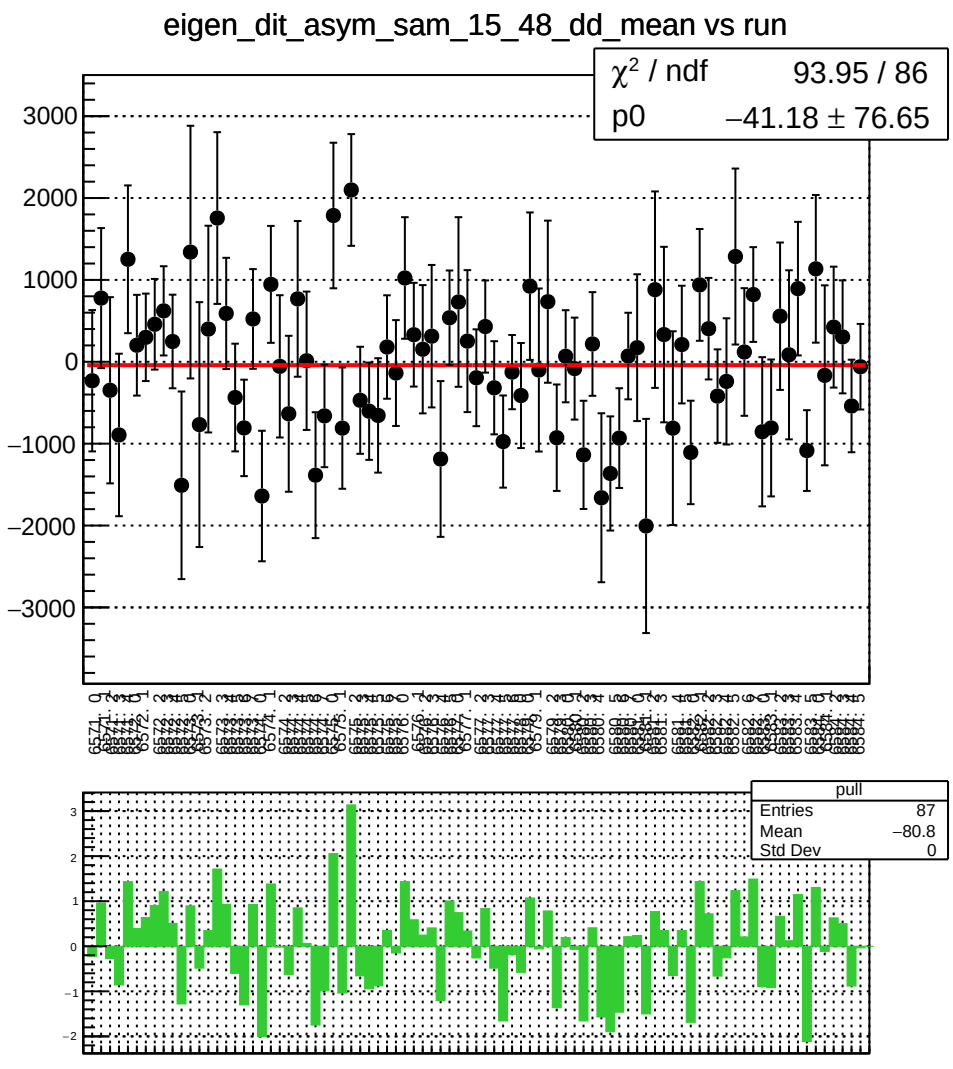

pull1D
Entries 87
Mean 0.02178
Std Dev 1.039

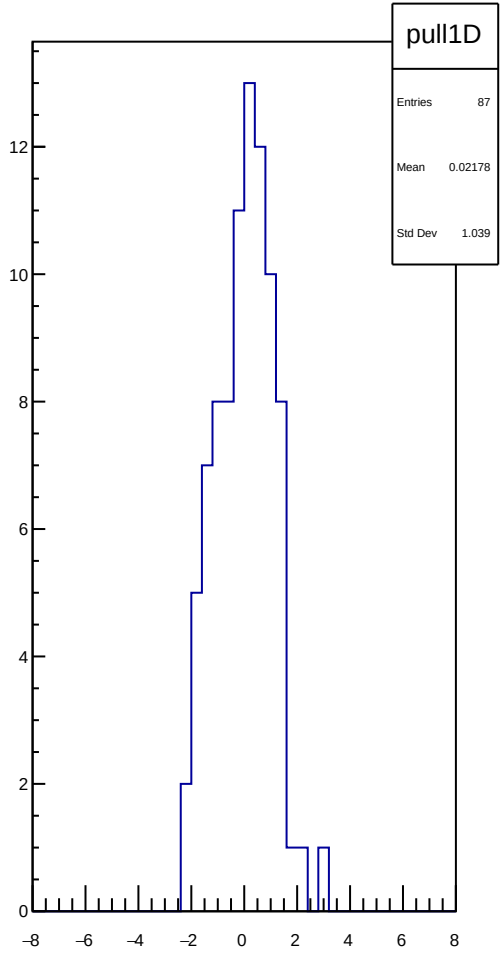

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8.854e+04 / 86
p0 68.52 ± 0.0542
140
120
100
80
60

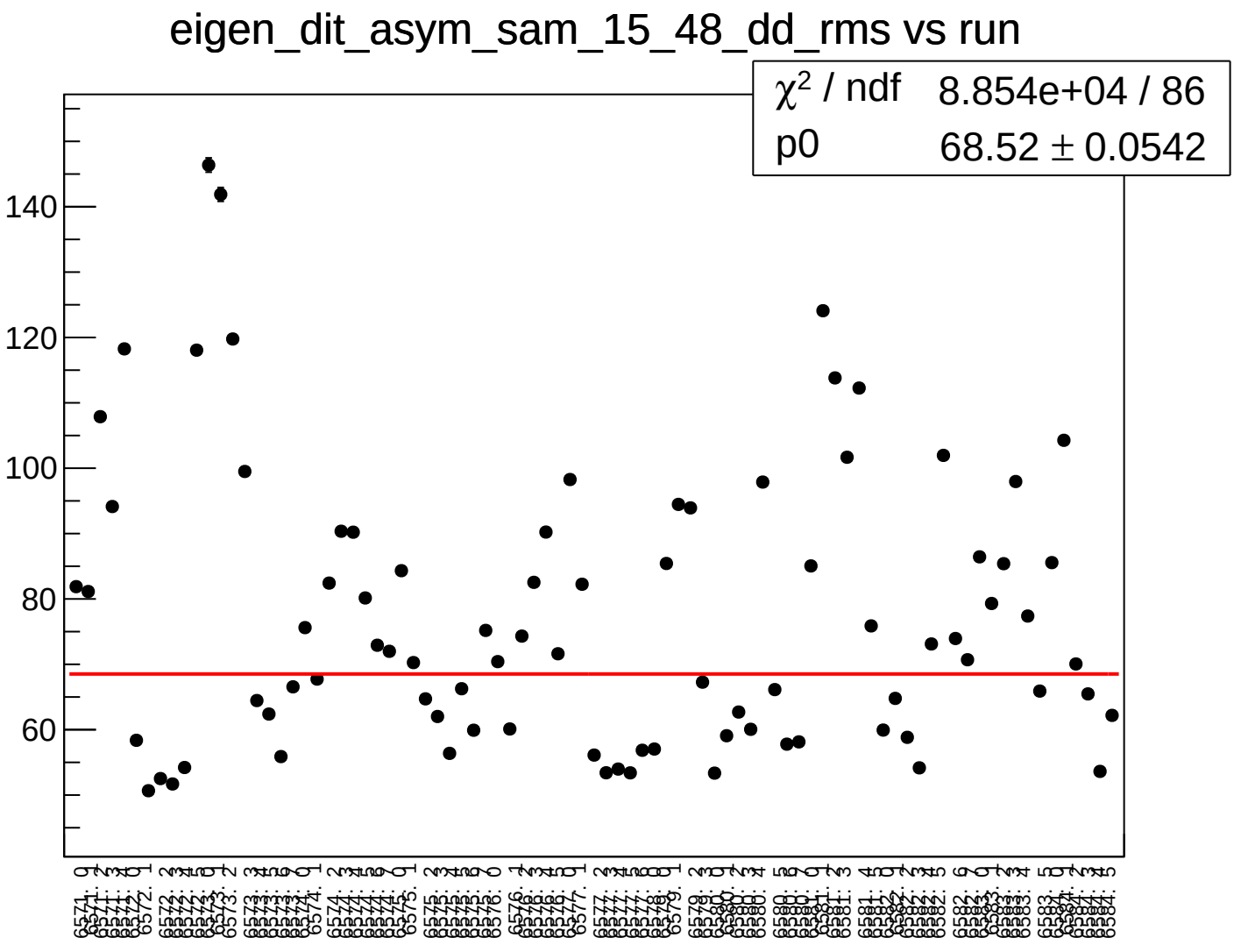

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 114.2 / 86
p0 676.7 ± 456.3
pull
Entries 87
Mean 165.2
Std Dev 0

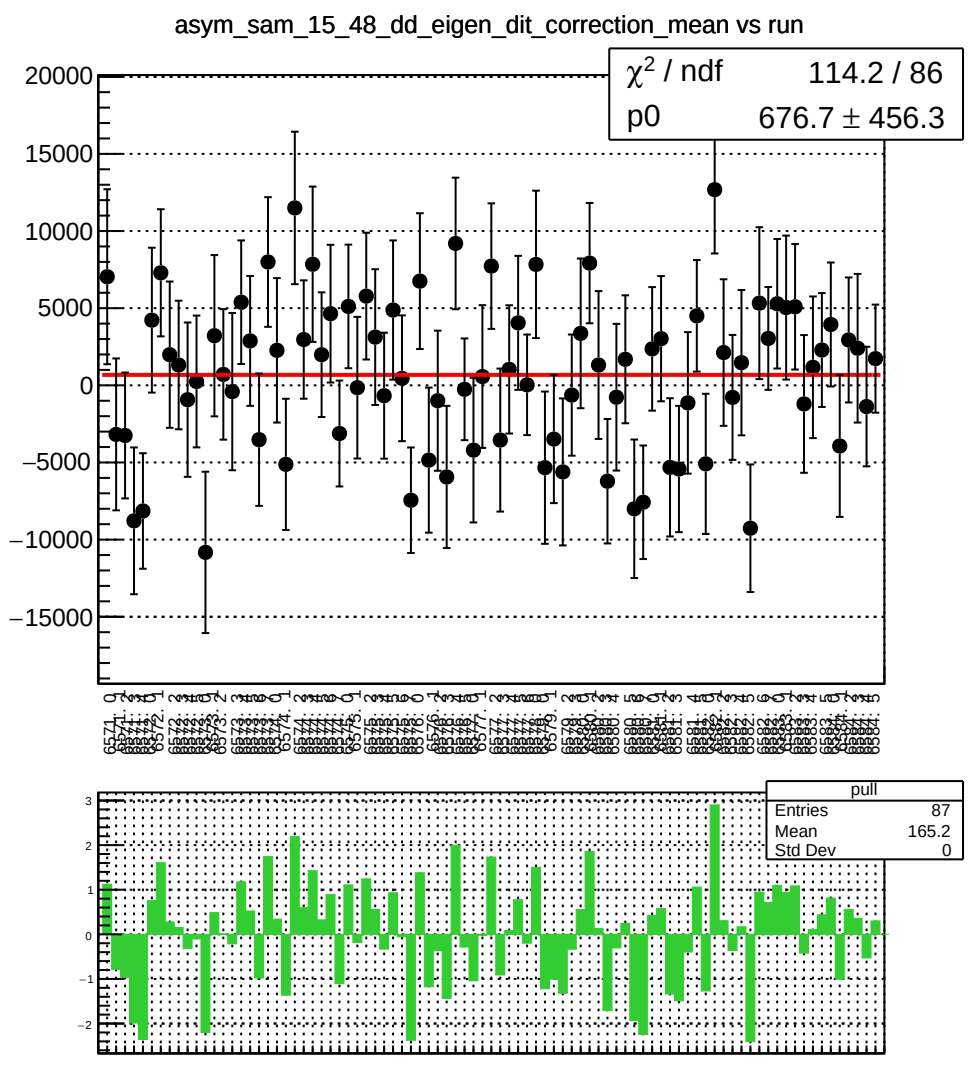

pull1D
Entries 87
Mean 0.005307
Std Dev 1.146

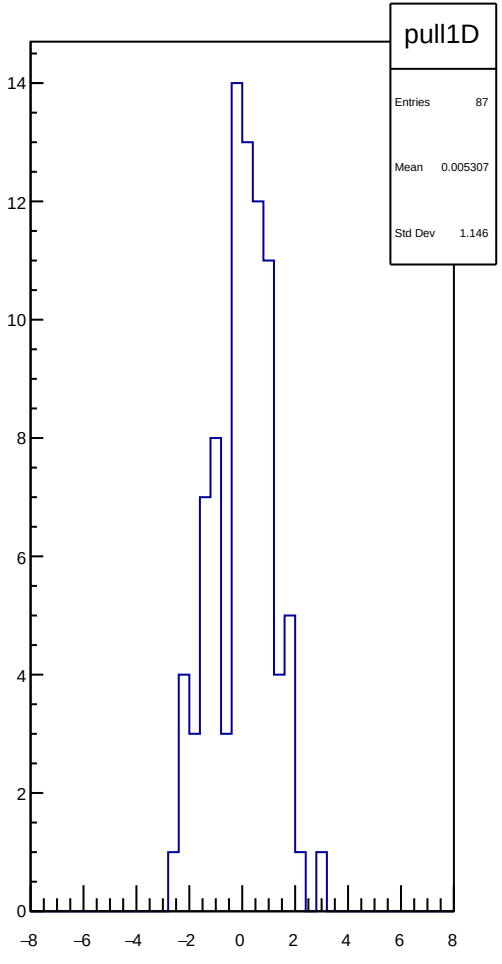

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.126e+04 / 86
p0 417.7 ± 0.3227
550
500
450
400
350

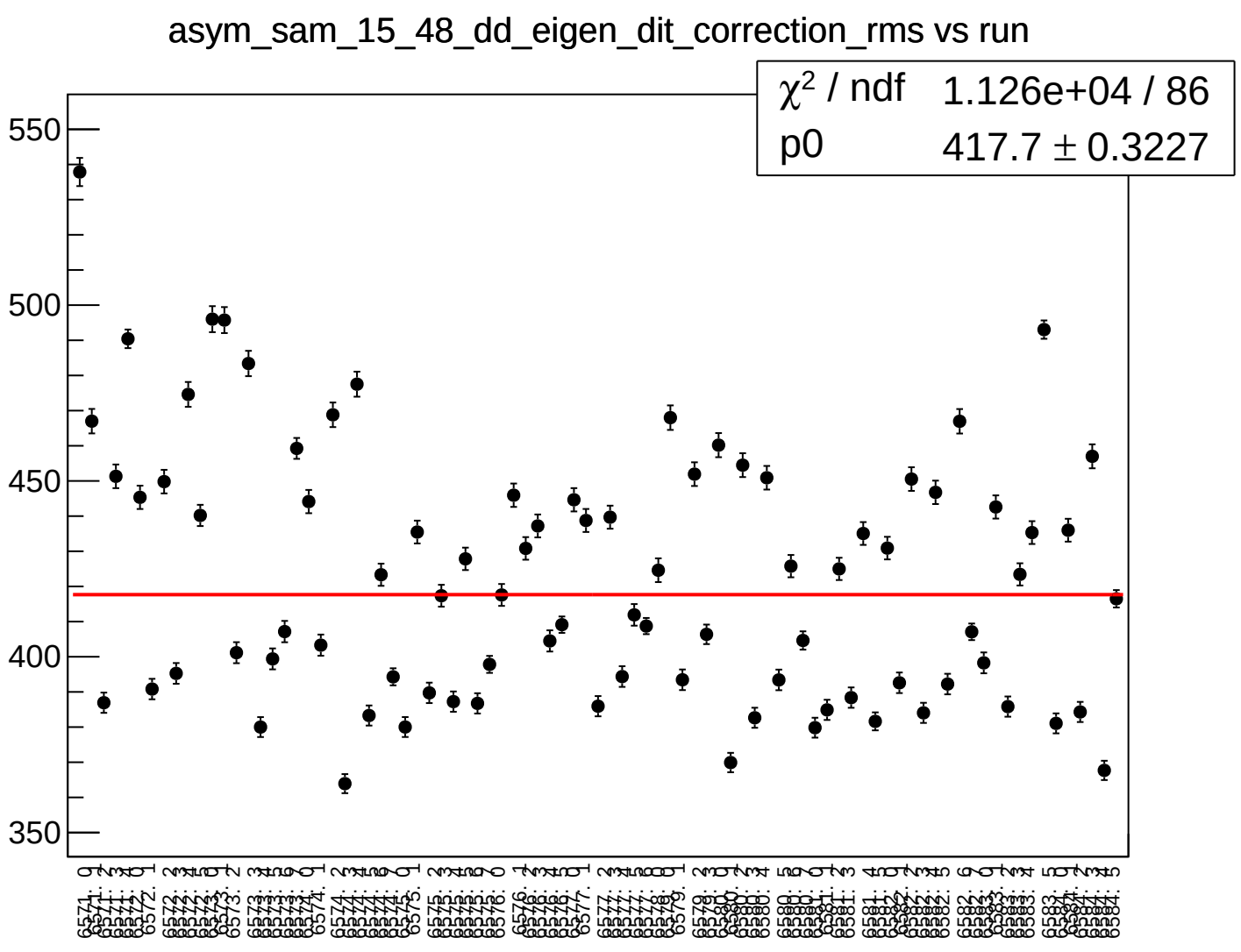

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 93.95 / 86
p0 −41.18 ± 76.65
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −80.8
Std Dev 0
3
2
1
0
−1
−2

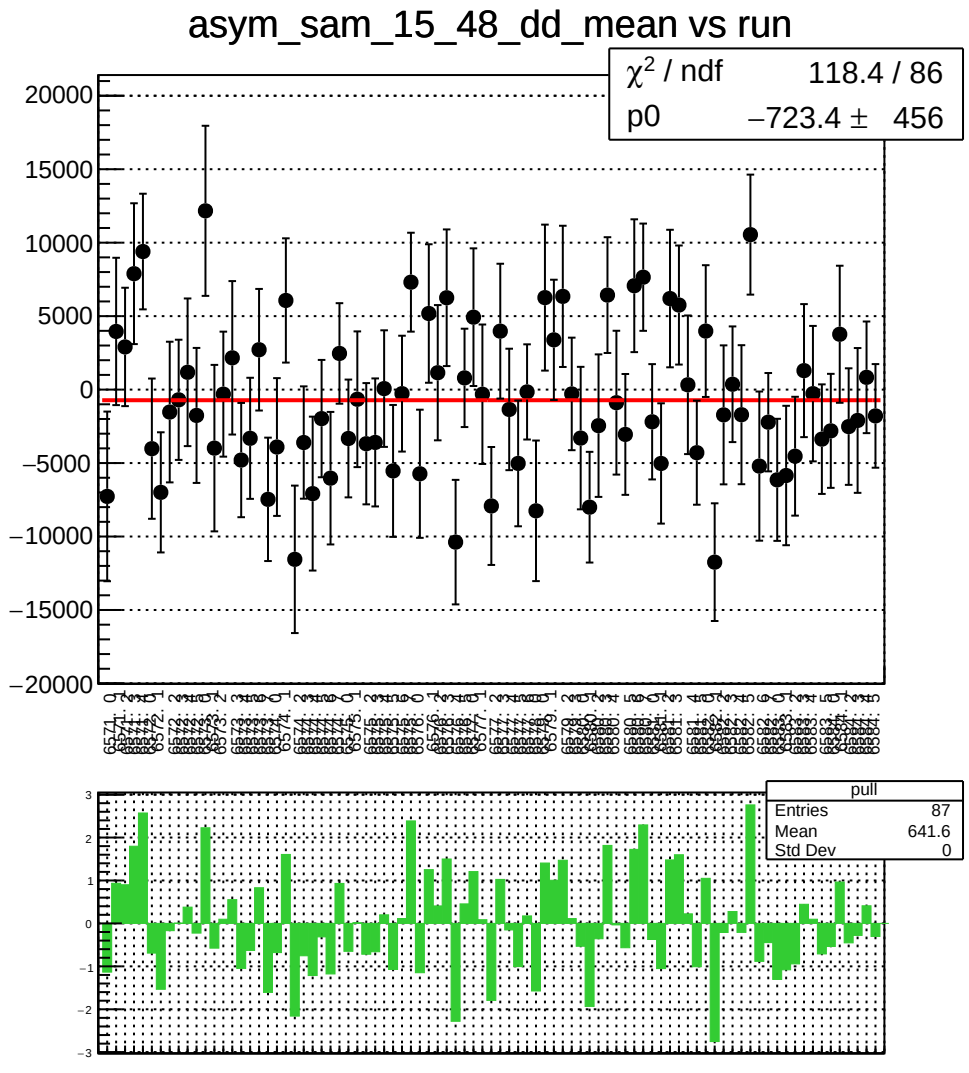

pull1D
Entries 87
Mean 0.02178
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

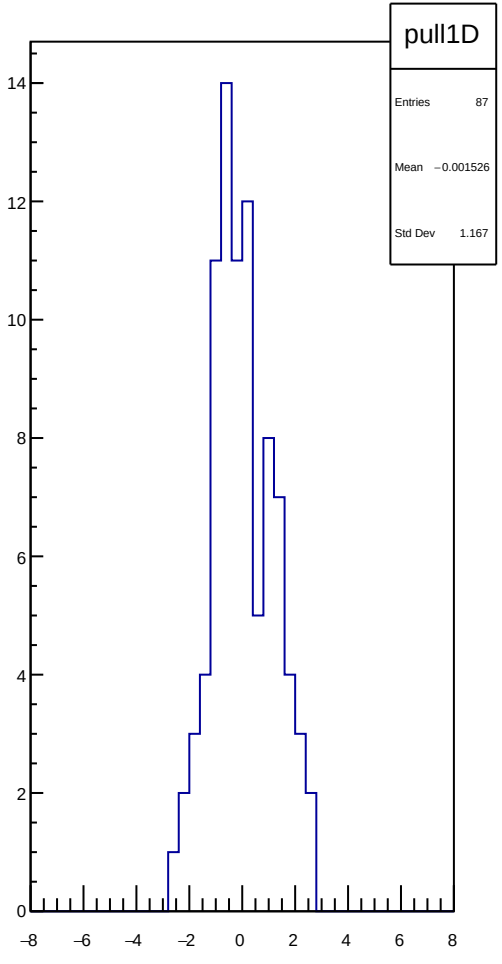

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8.854e+04 / 86
p0 68.52 ± 0.0542
140
120
100
80
60

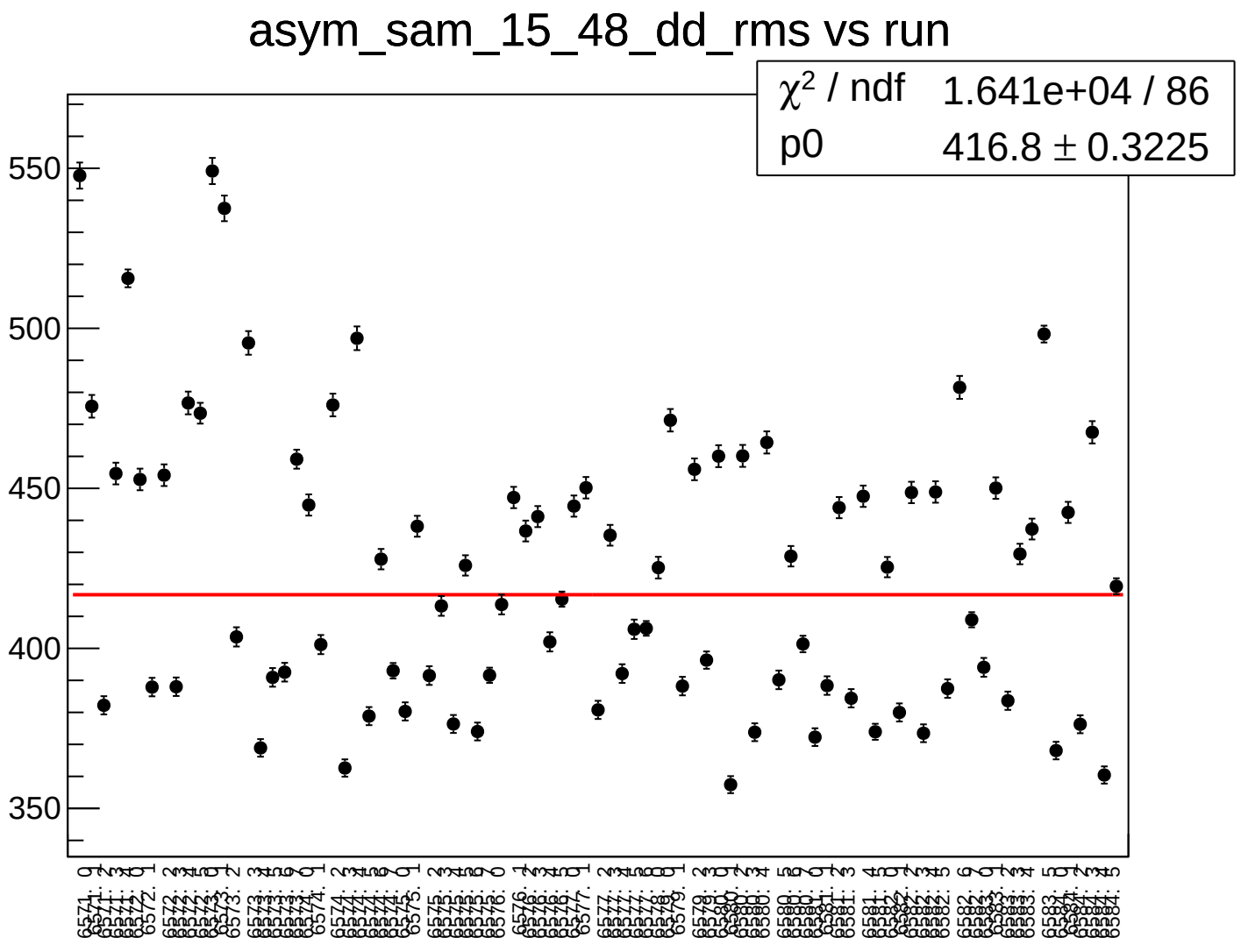

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 114.2 / 86
p0 676.7 ± 456.3
pull
Entries 87
Mean 165.2
Std Dev 0

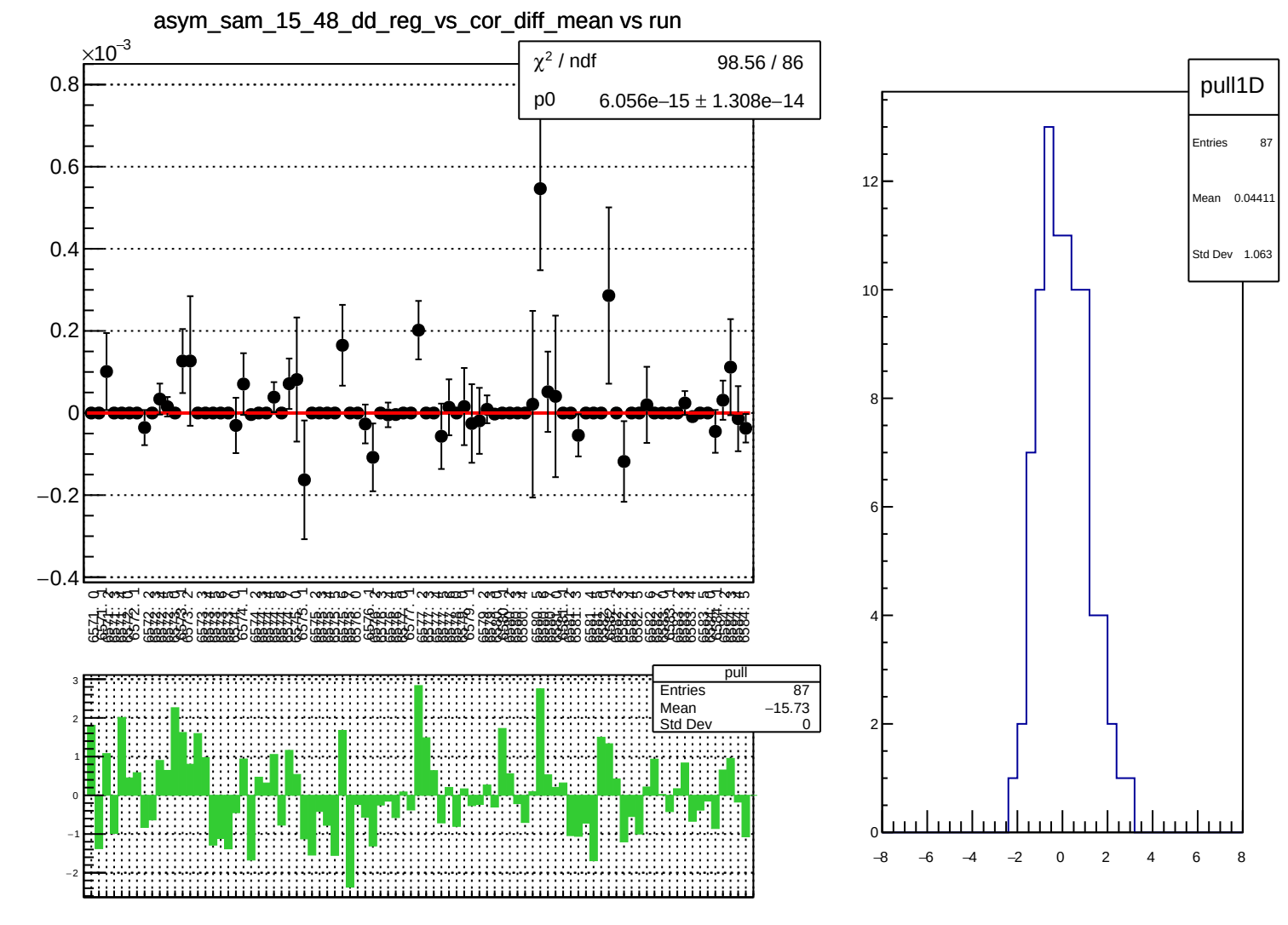

pull1D
Entries 87
Mean 0.005307
Std Dev 1.146

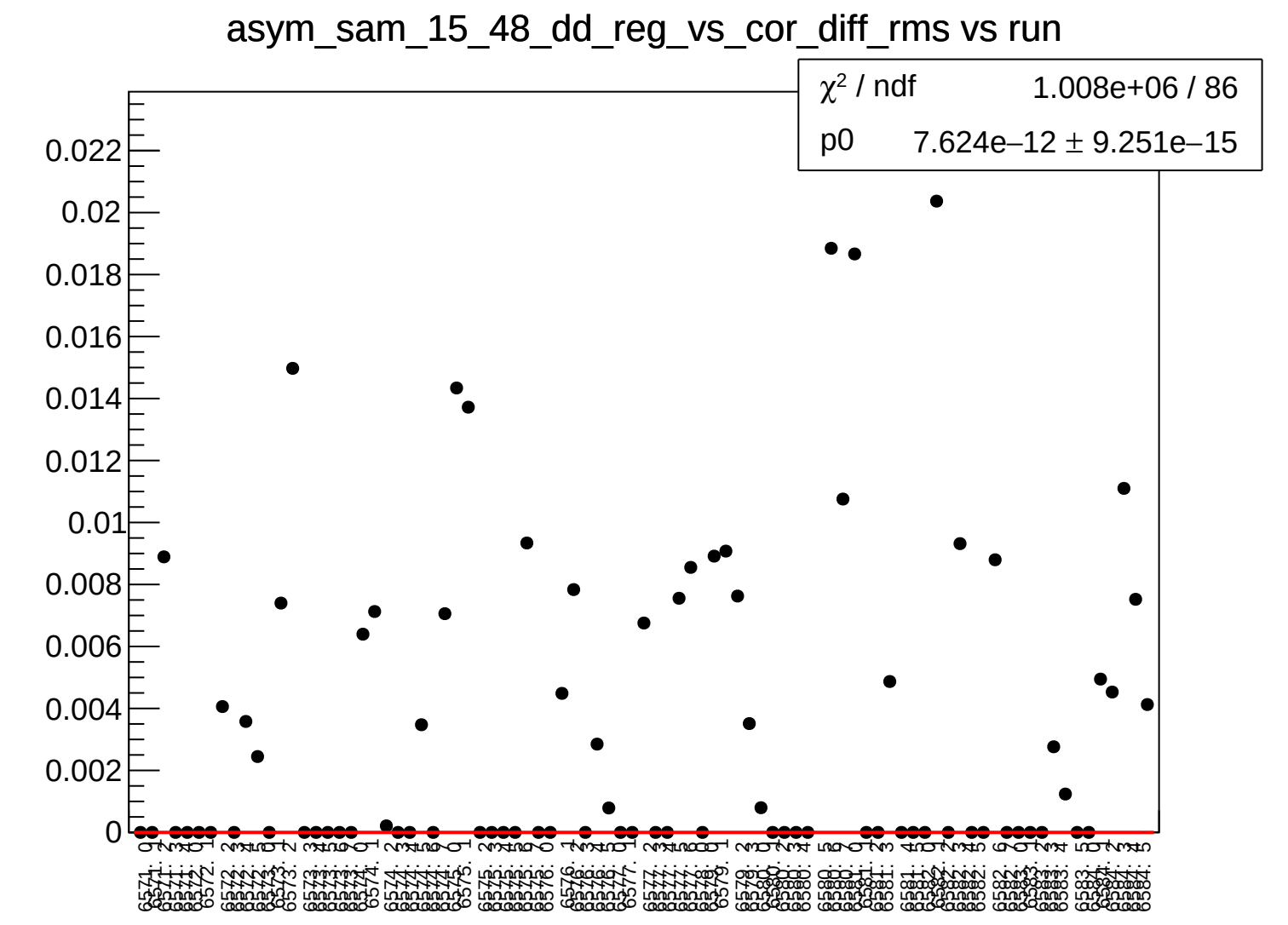

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.126e+04 / 86
p0 417.7 ± 0.3227
550
500
450
400
350

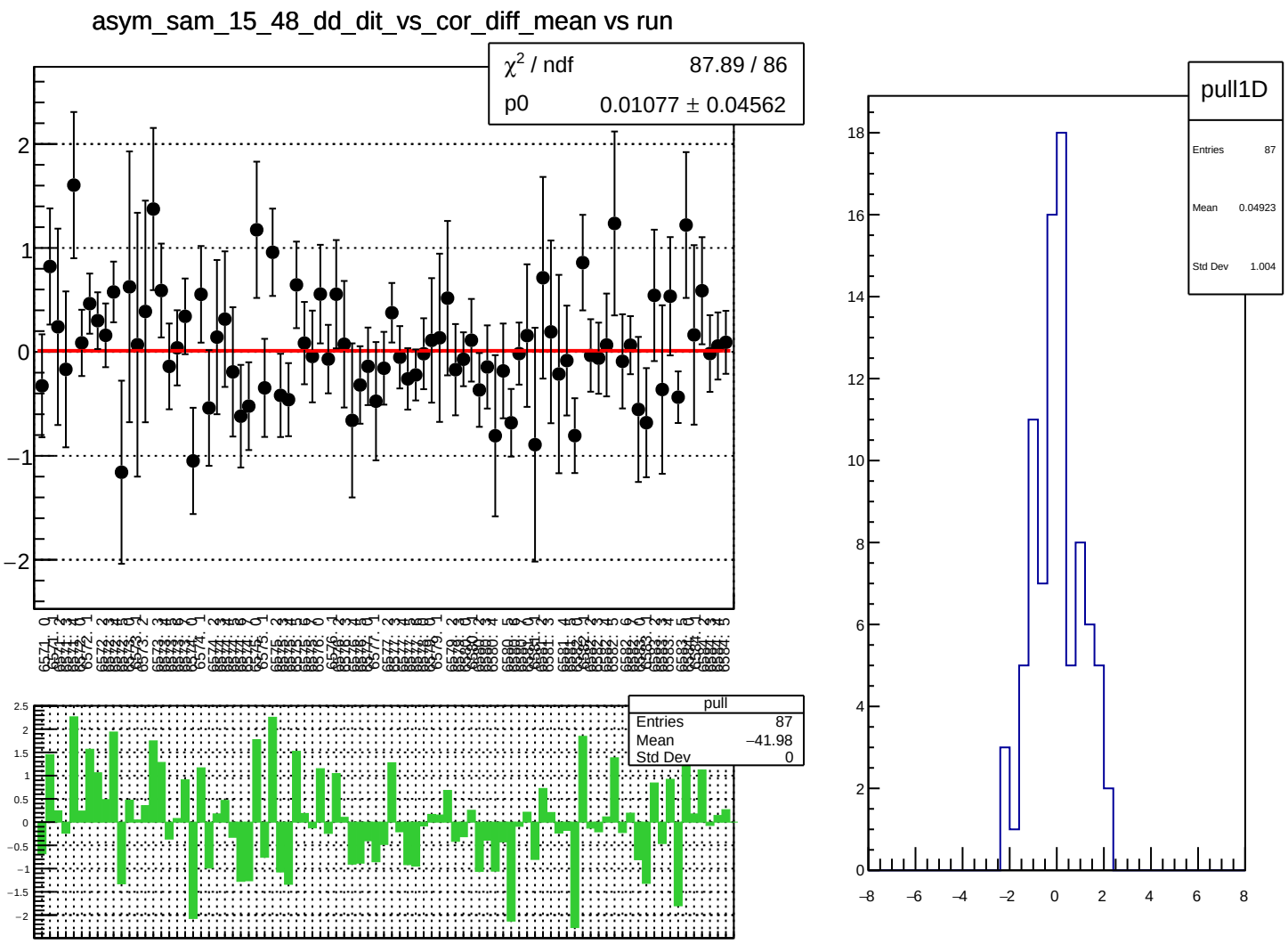

asym_sam_15_48_dd_mean vs run
χ² / ndf 118.4 / 86
p0 −723.4 ± 456
pull
Entries 87
Mean 641.6
Std Dev 0

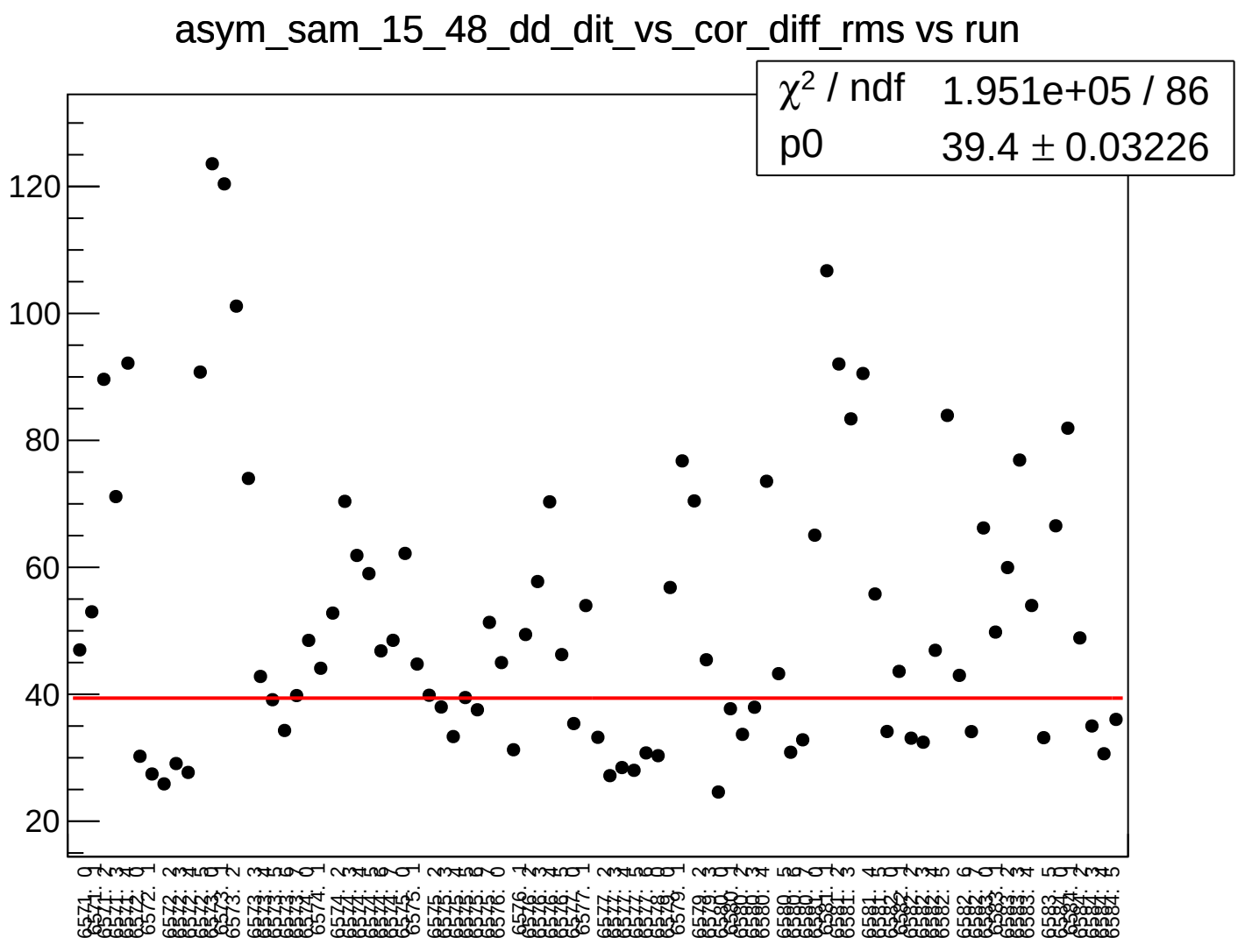

pull1D
Entries 87
Mean −0.001526
Std Dev 1.167

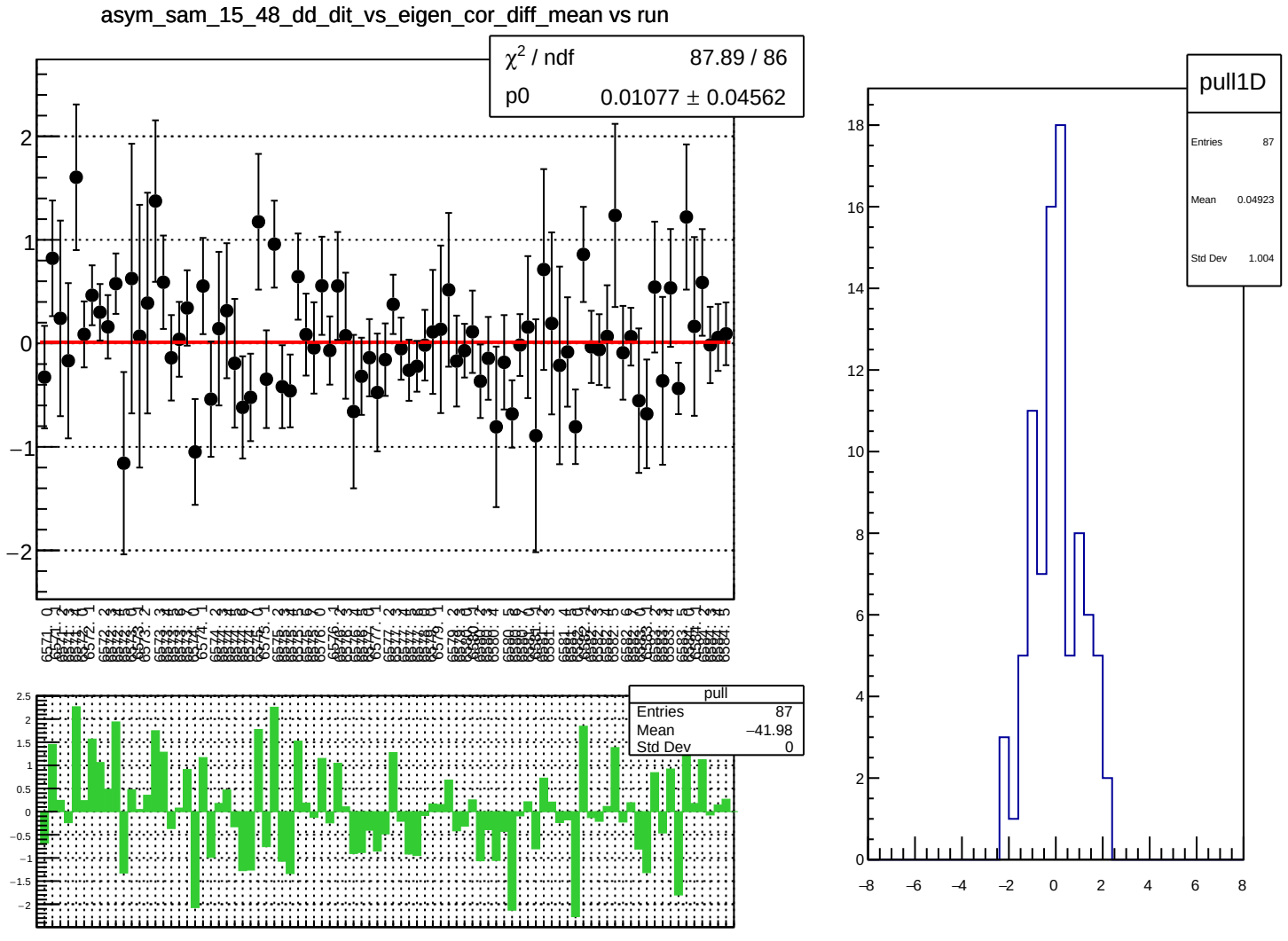

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.641e+04 / 86
p0 416.8 ± 0.3225
550
500
450
400
350

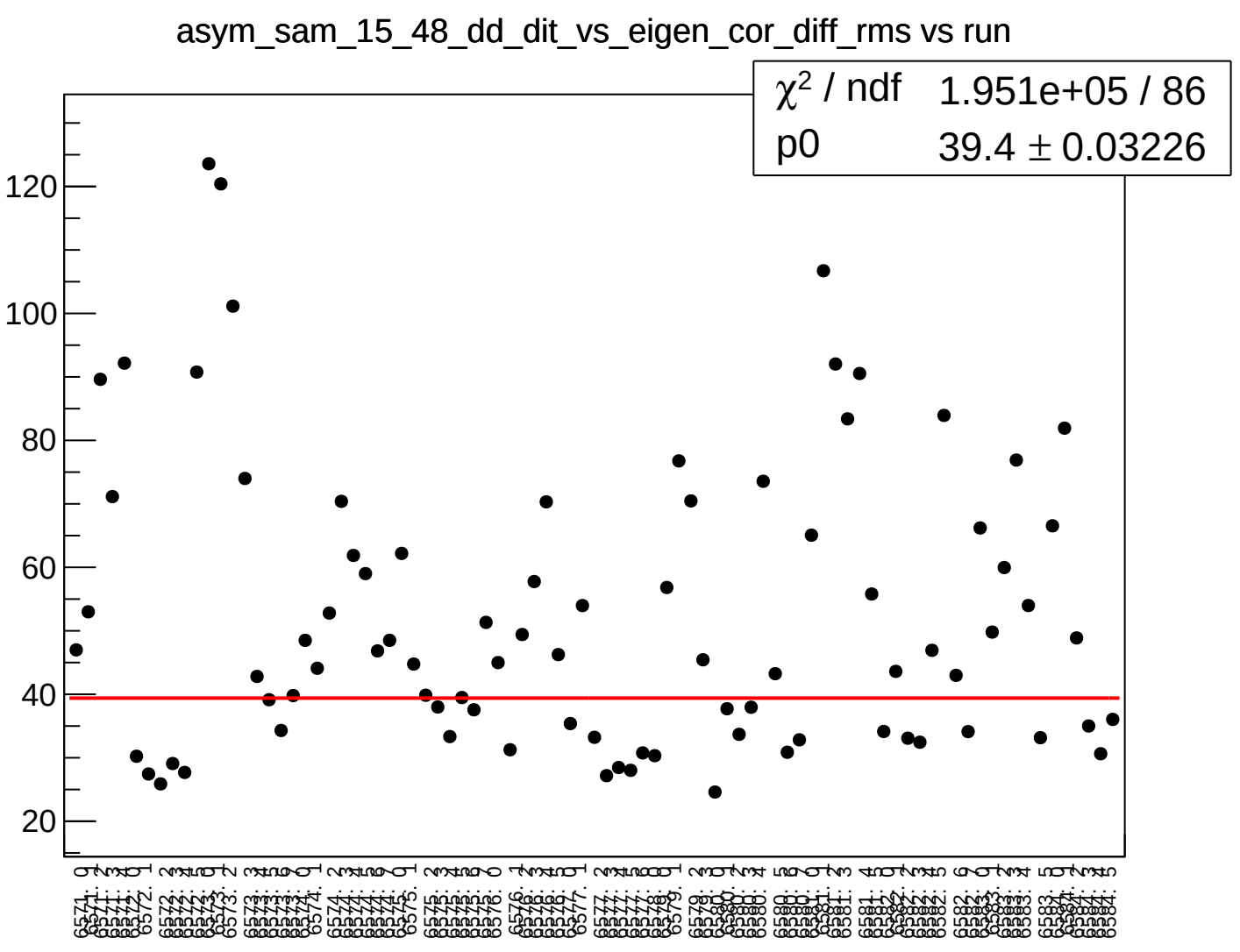

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 98.56 / 86
p0 6.056e−15 ± 1.308e−14
pull
Entries 87
Mean −15.73
Std Dev 0
pull1D
Entries 87
Mean 0.04411
Std Dev 1.063

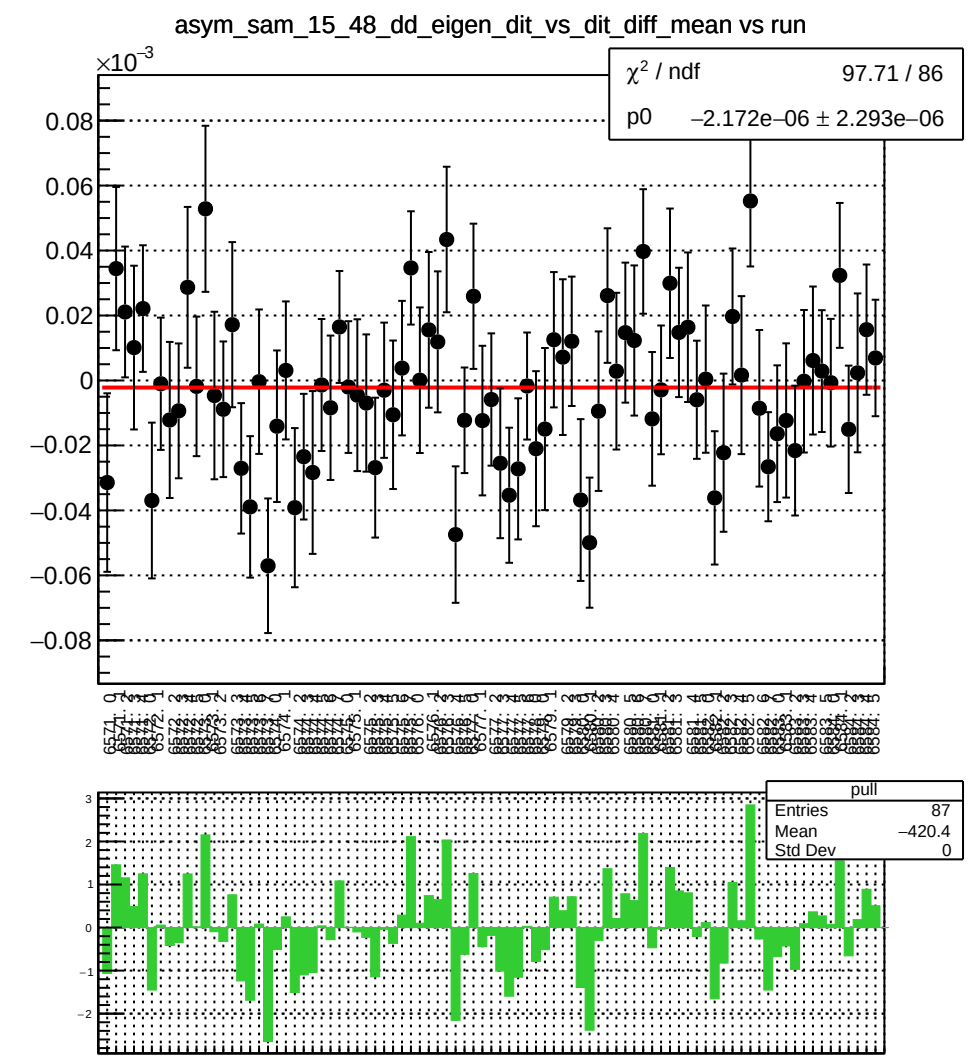

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.008e+06 / 86
p0 7.624e−12 ± 9.251e−15
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

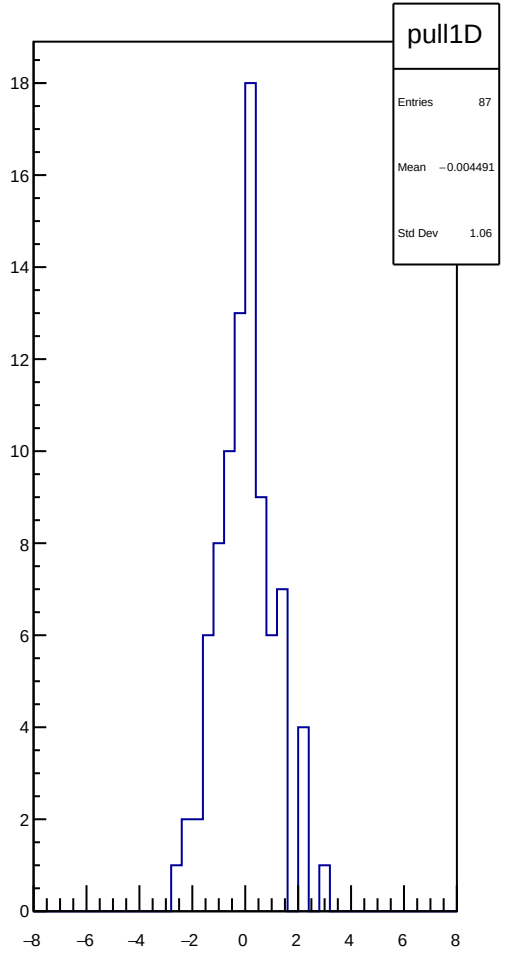

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.89 / 86
p0 0.01077 ± 0.04562
pull
Entries 87
Mean −41.98
Std Dev 0
pull1D
Entries 87
Mean 0.04923
Std Dev 1.004

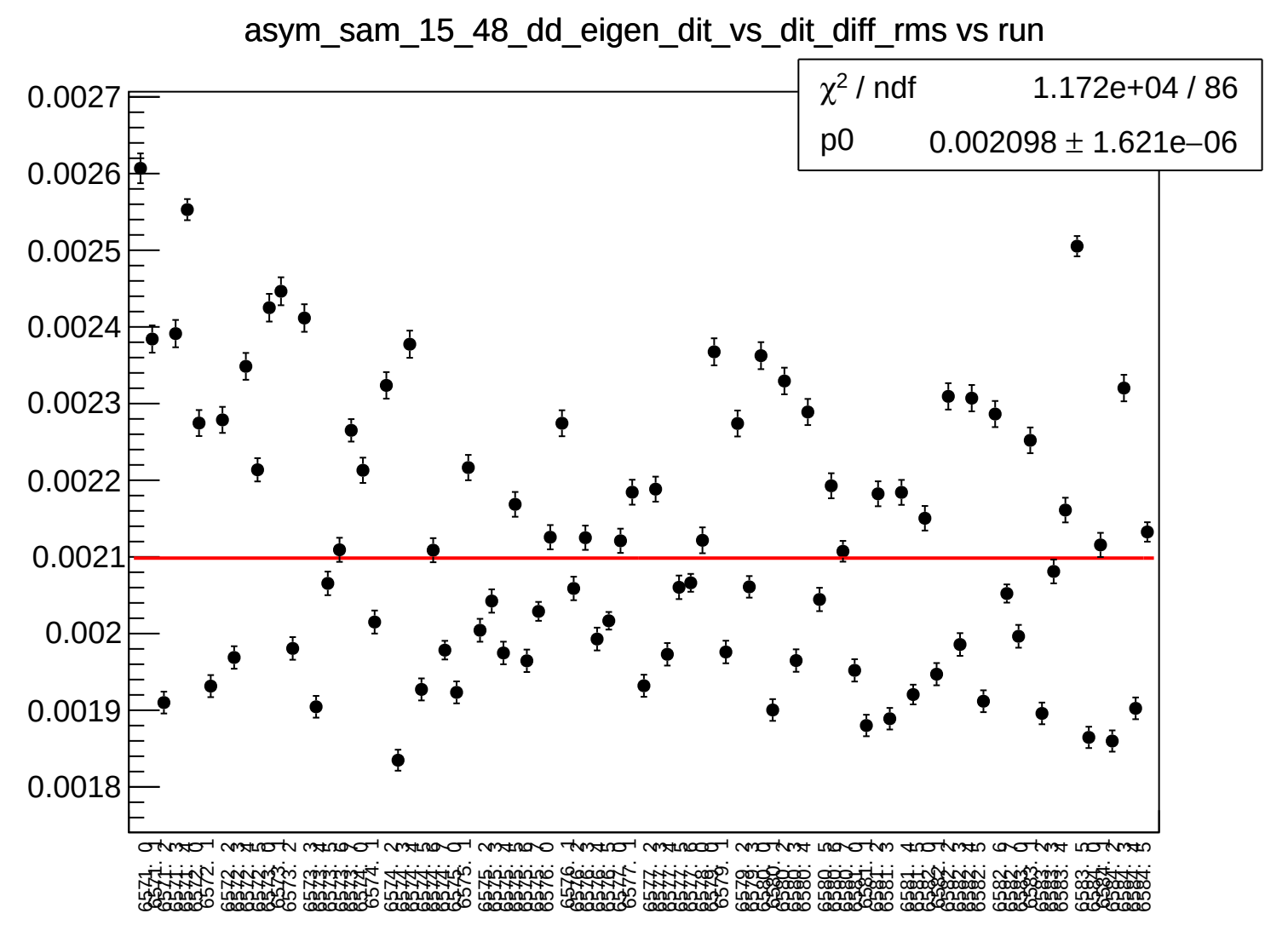

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.951e+05 / 86
p0 39.4 ± 0.03226
120
100
80
60
40
20

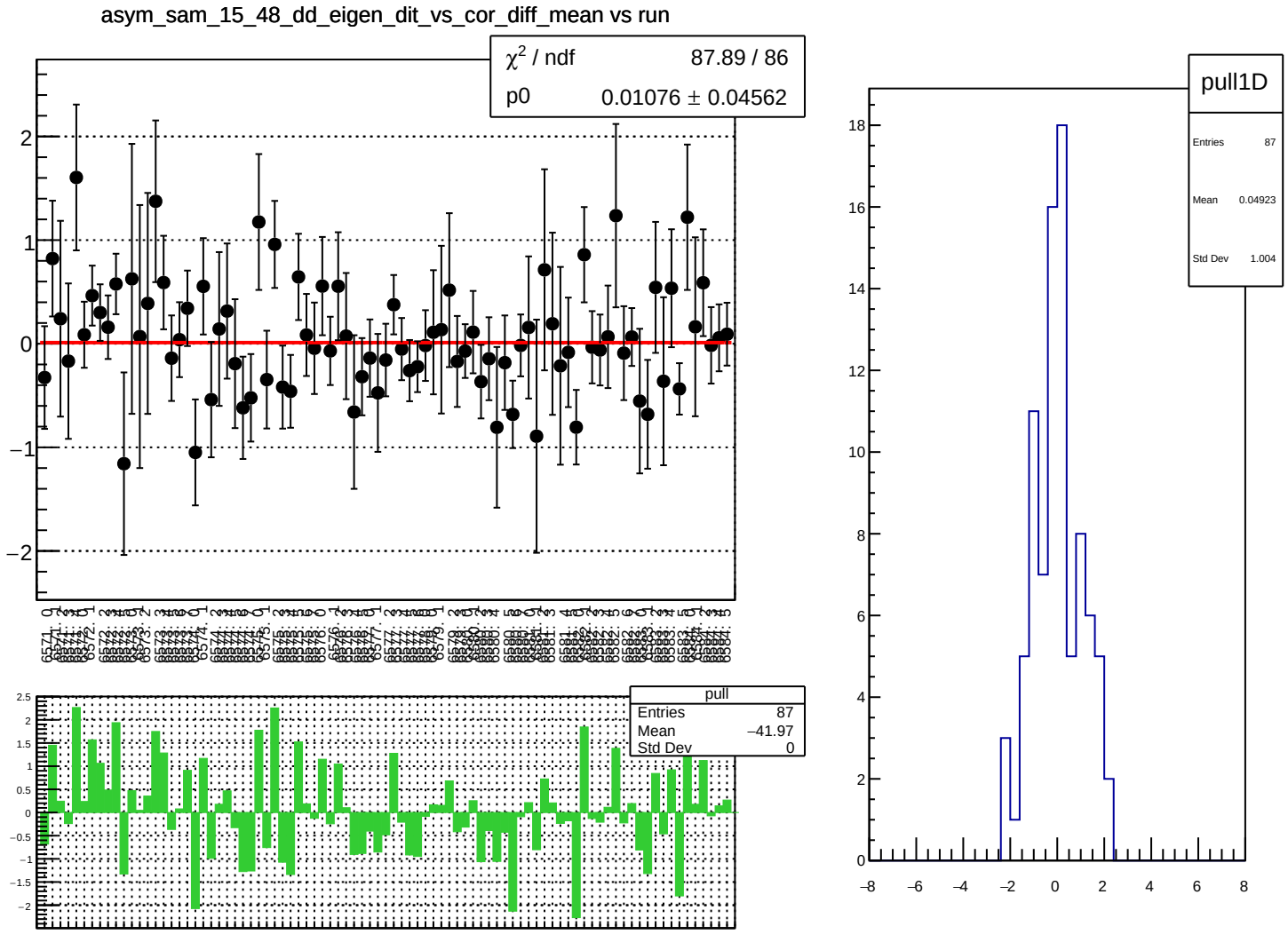

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.89 / 86
p0 0.01077 ± 0.04562
pull
Entries 87
Mean −41.98
Std Dev 0
pull1D
Entries 87
Mean 0.04923
Std Dev 1.004

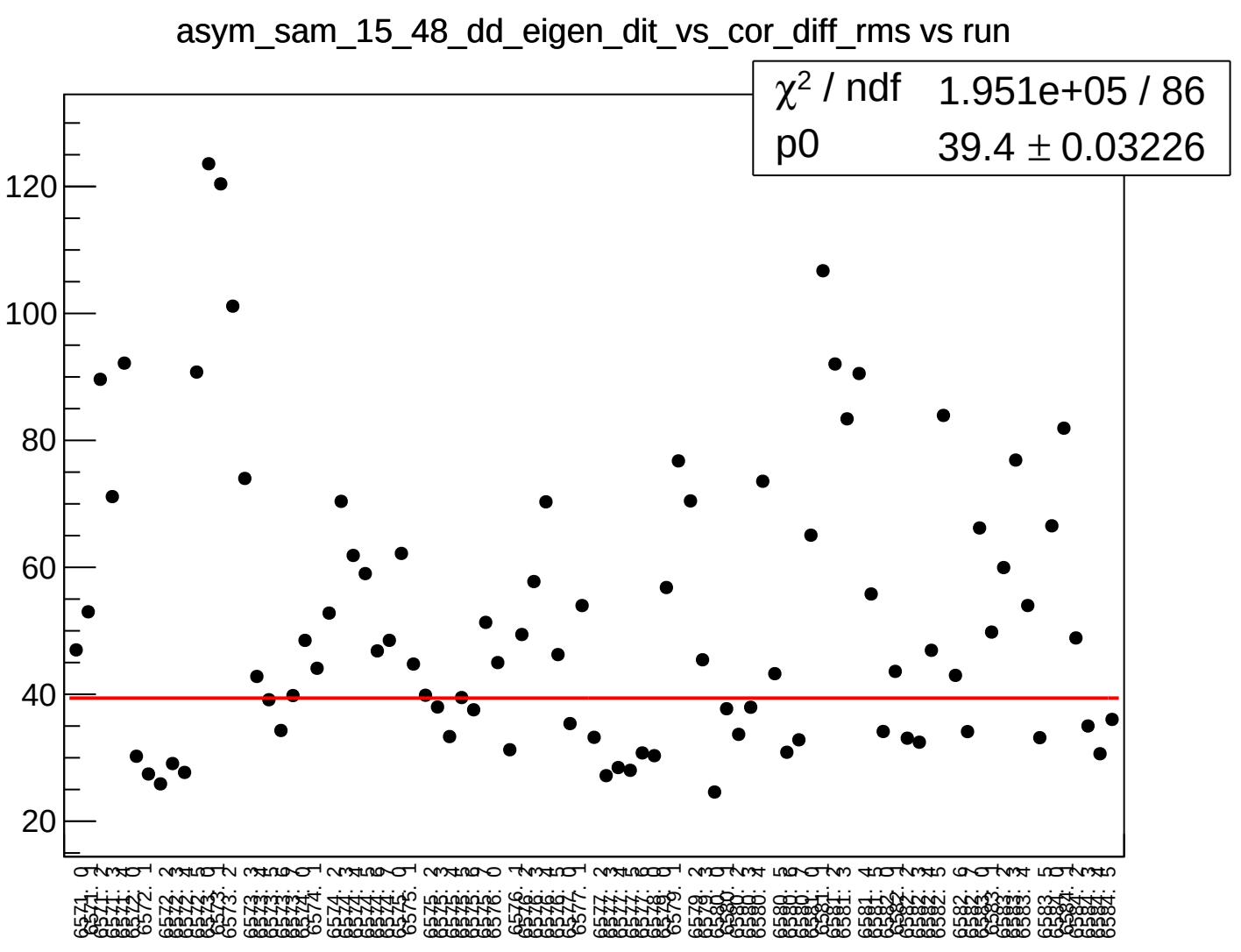

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.951e+05 / 86
p0 39.4 ± 0.03226
120
100
80
60
40
20

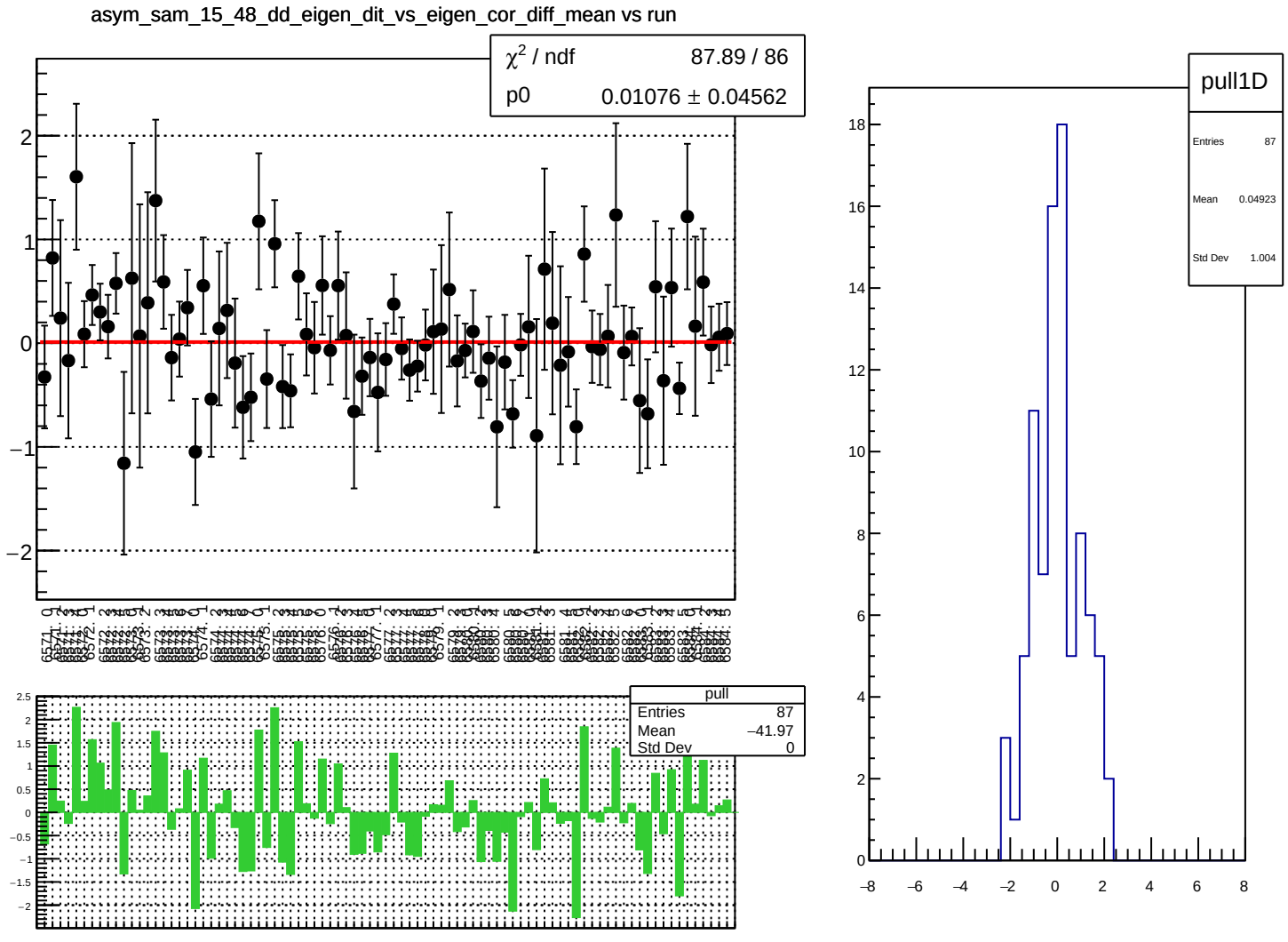

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.71 / 86
p0 −2.172e−06 ± 2.293e−06
pull
Entries 87
Mean −420.4
Std Dev 0

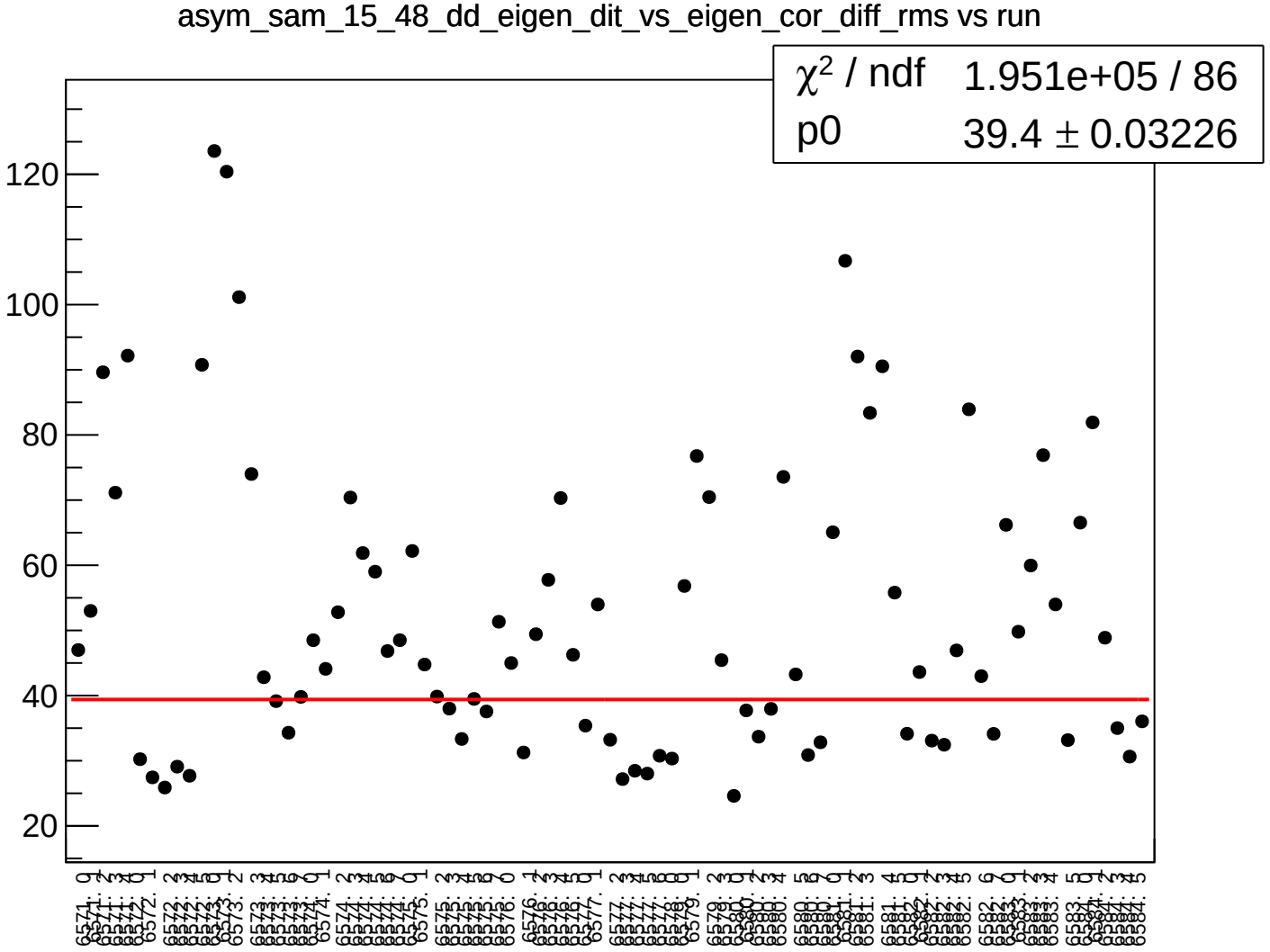

pull1D
Entries 87
Mean −0.004491
Std Dev 1.06

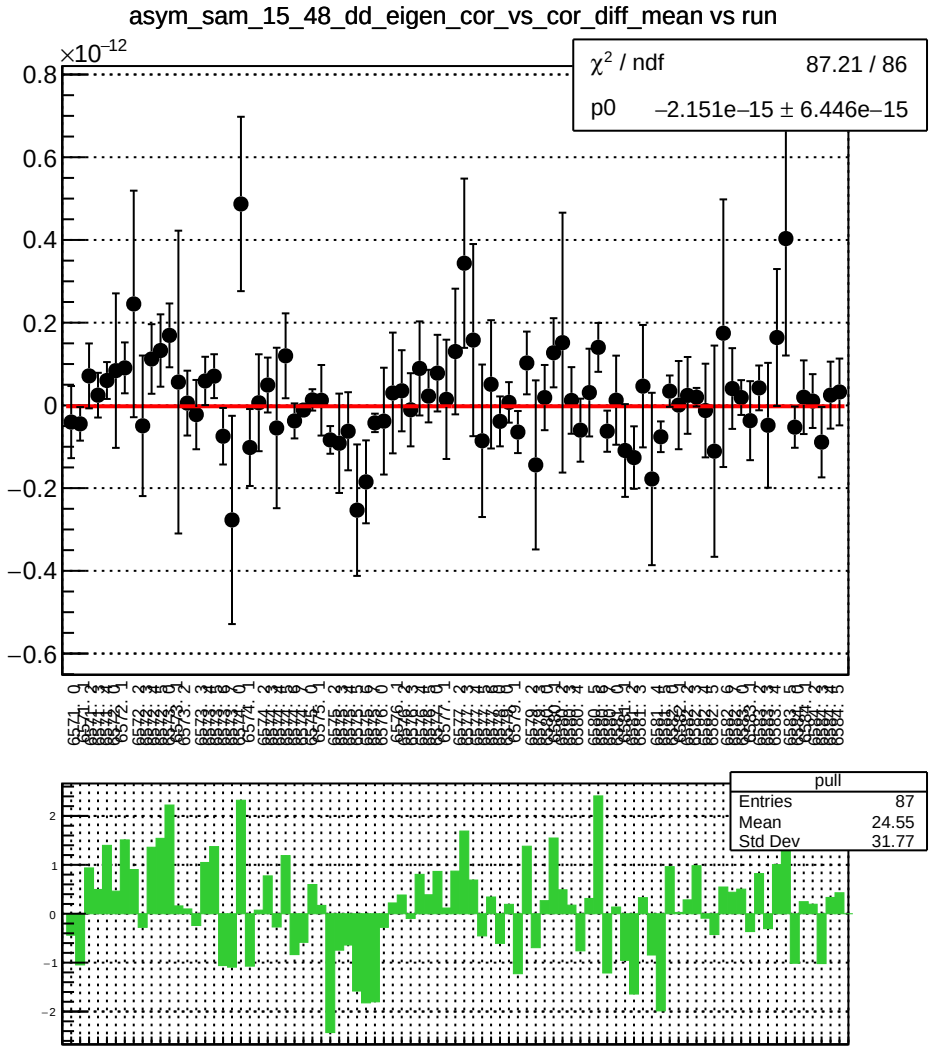

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.172e+04 / 86
p0 0.002098 ± 1.621e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

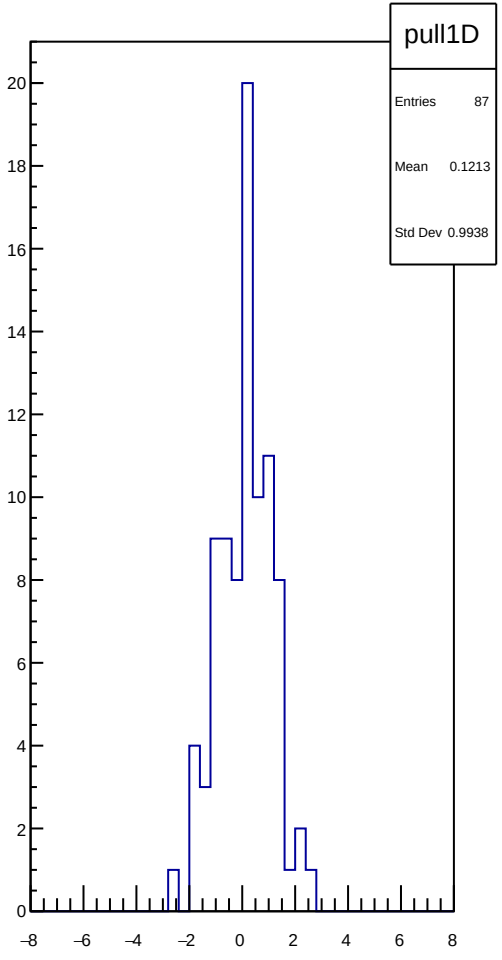

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.89 / 86
p0 0.01076 ± 0.04562
pull
Entries 87
Mean −41.97
Std Dev 0
pull1D
Entries 87
Mean 0.04923
Std Dev 1.004

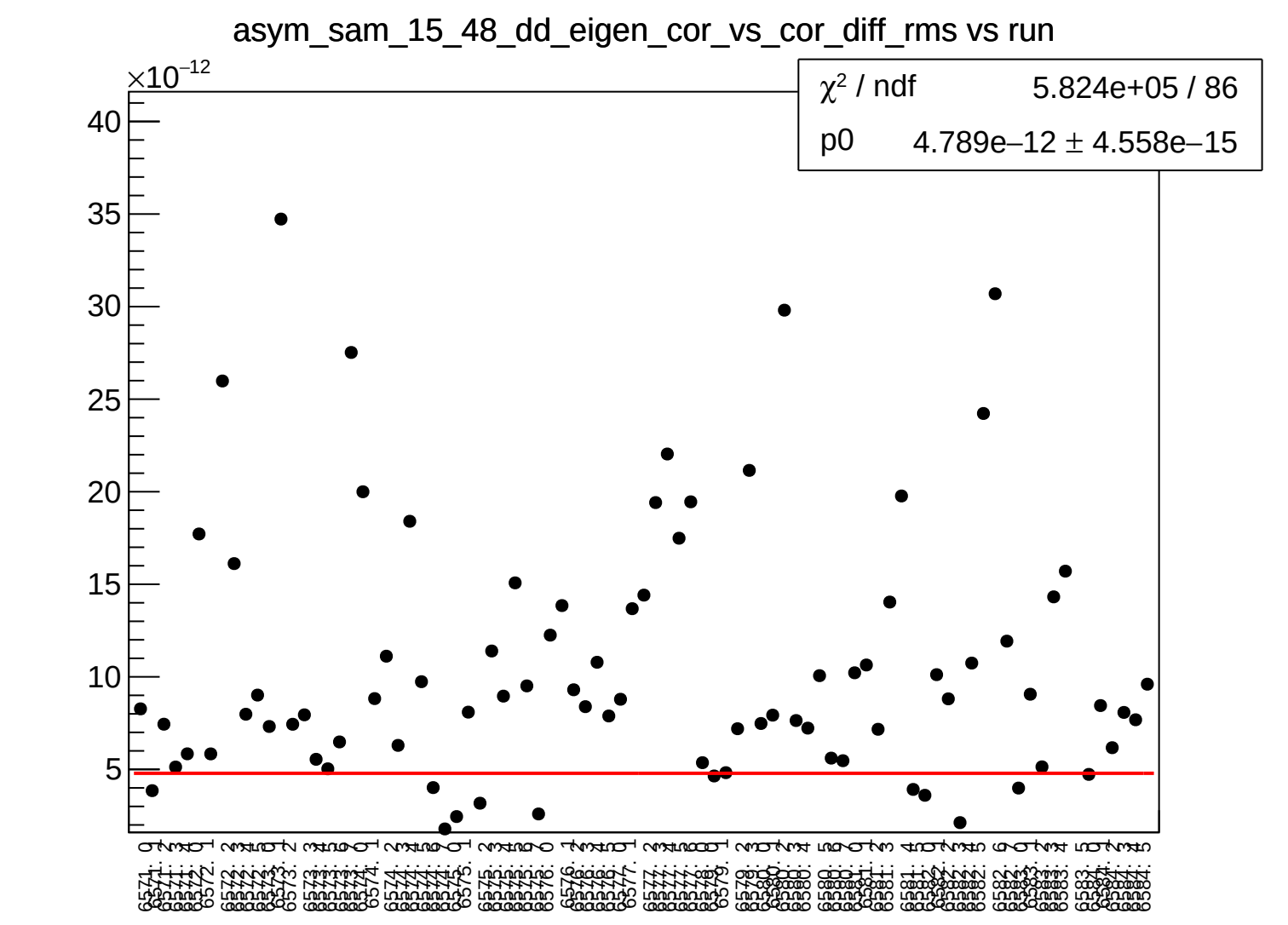

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.951e+05 / 86
p0 39.4 ± 0.03226
120
100
80
60
40
20

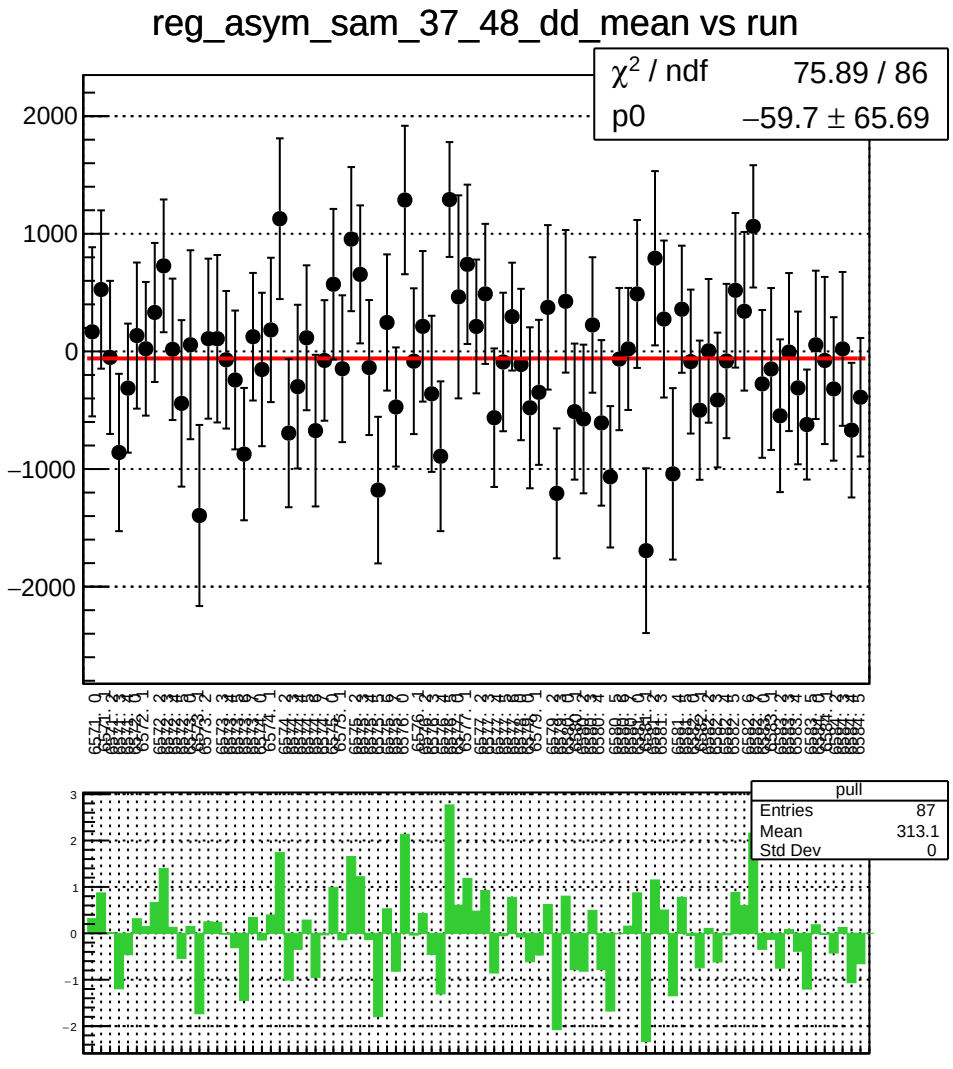

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.89 / 86
p0 0.01076 ± 0.04562
pull
Entries 87
Mean −41.97
Std Dev 0
pull1D
Entries 87
Mean 0.04923
Std Dev 1.004

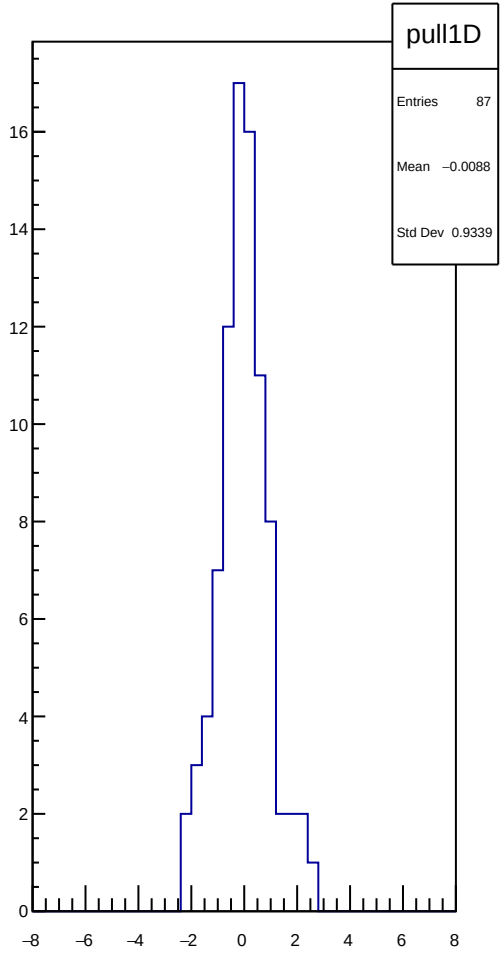

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.951e+05 / 86
p0 39.4 ± 0.03226
120
100
80
60
40
20

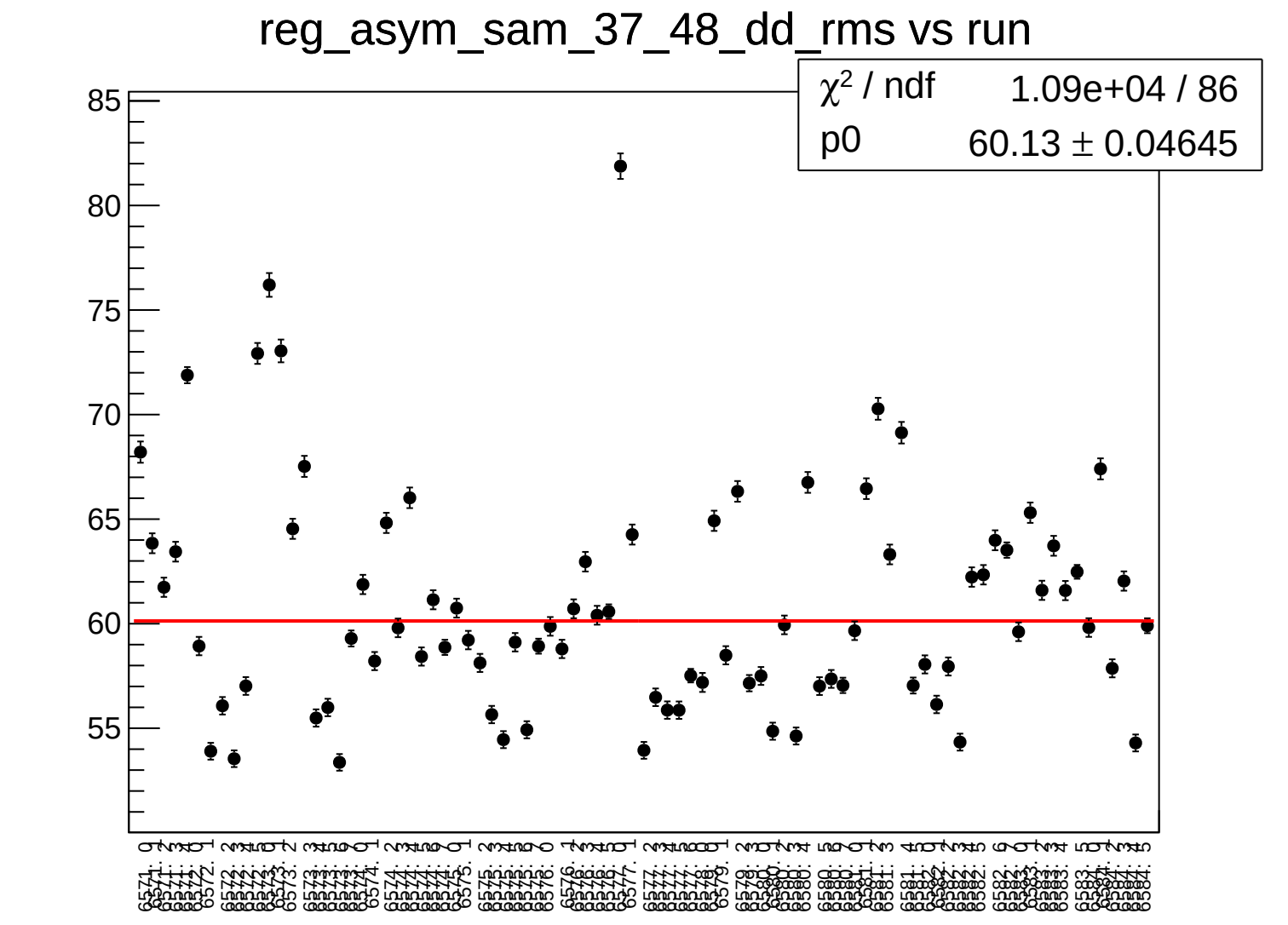

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.21 / 86
p0 −2.151e−15 ± 6.446e−15
pull
Entries 87
Mean 24.55
Std Dev 31.77

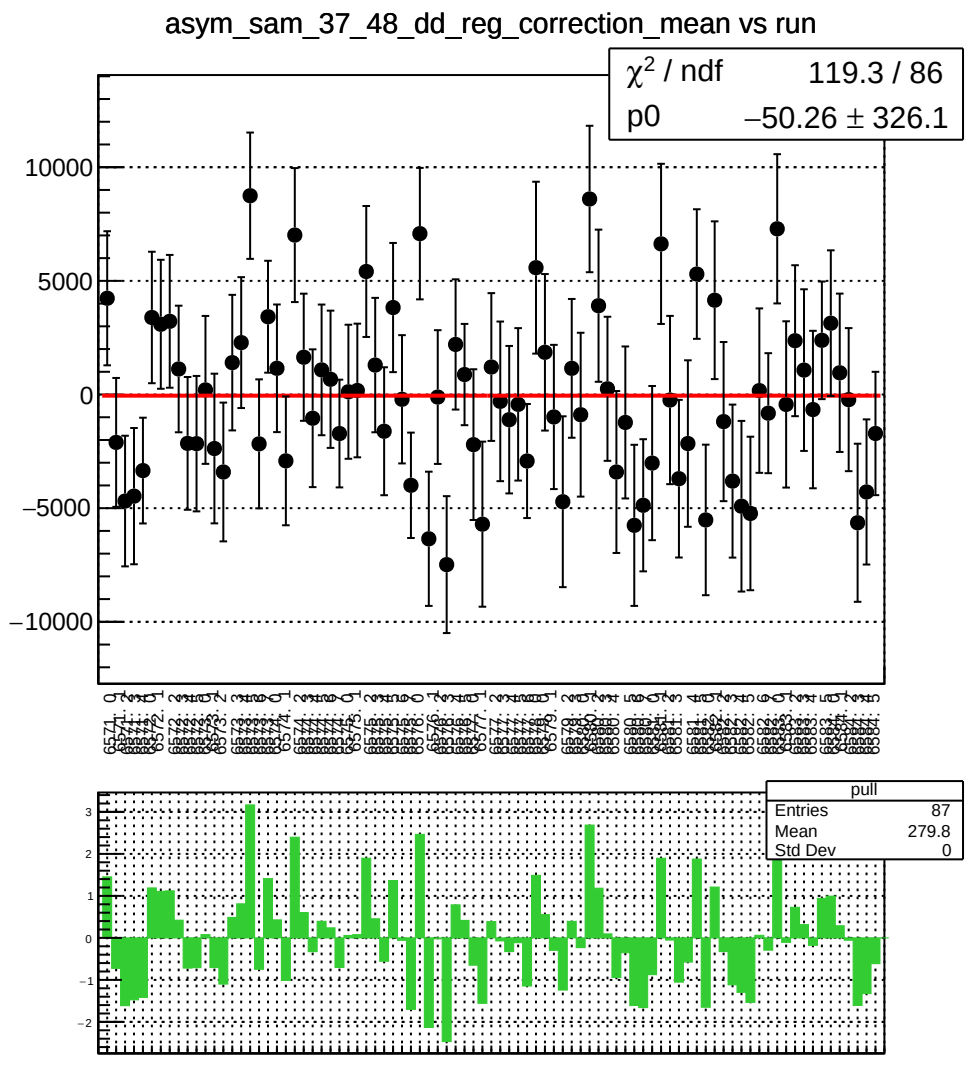

pull1D
Entries 87
Mean 0.1213
Std Dev 0.9938

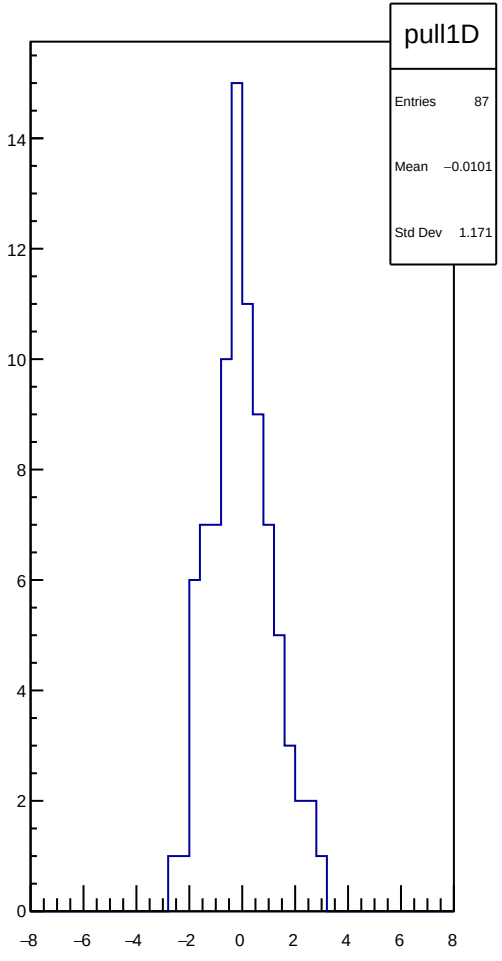

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.824e+05 / 86
p0 4.789e−12 ± 4.558e−15
40
35
30
25
20
15
10
5

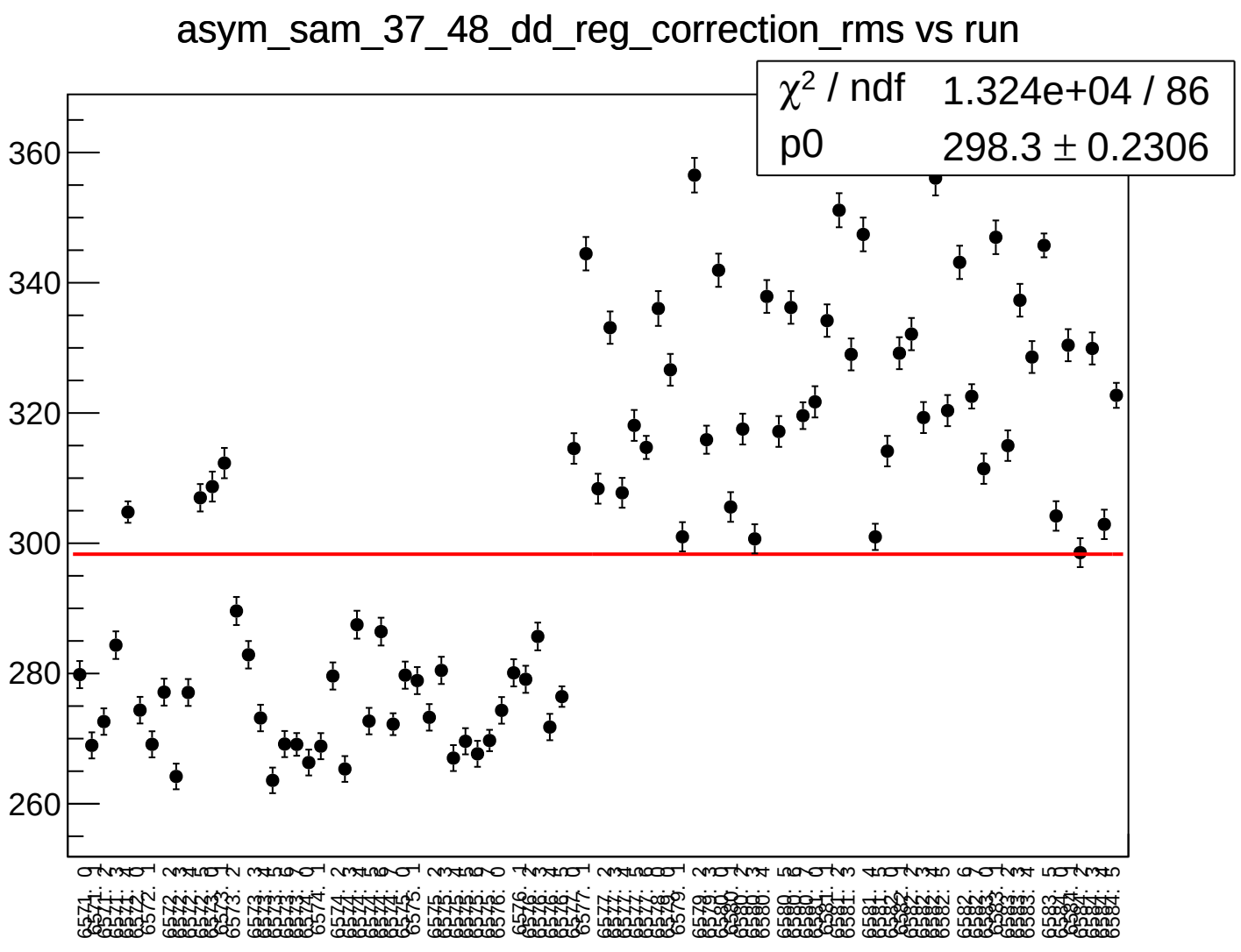

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 75.89 / 86
p0 –59.7 ± 65.69
2000
1000
0
–1000
–2000
pull
Entries 87
Mean 313.1
Std Dev 0
3
2
1
0
–1
–2

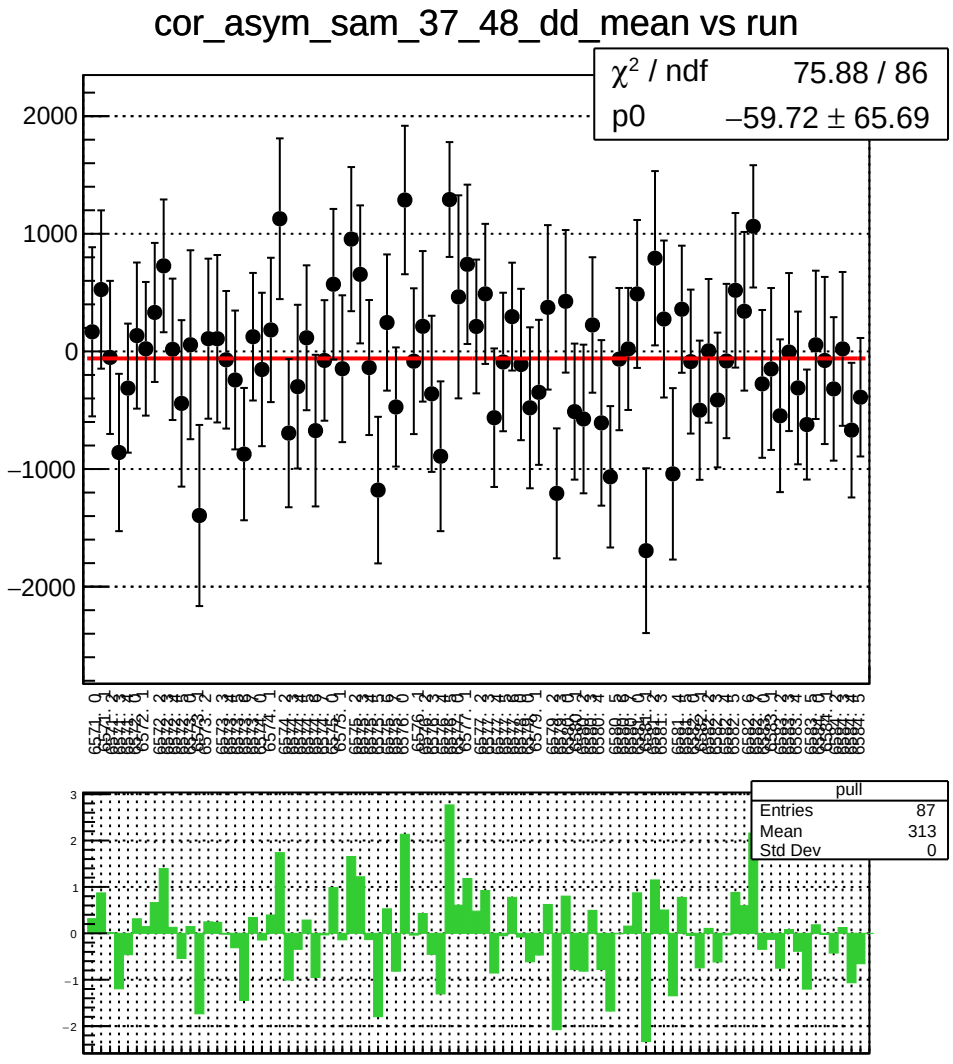

pull1D
Entries 87
Mean –0.0088
Std Dev 0.9339
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

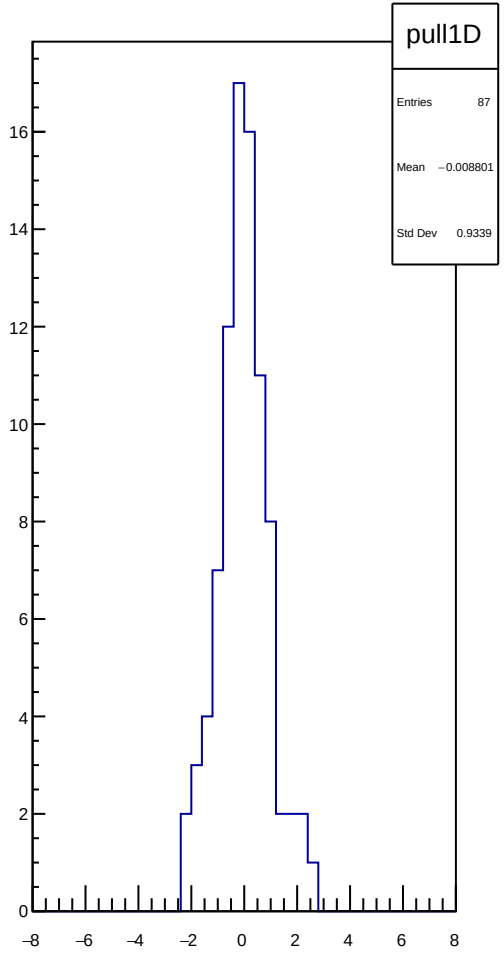

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.09e+04 / 86
p0 60.13 ± 0.04645
85
80
75
70
65
60
55

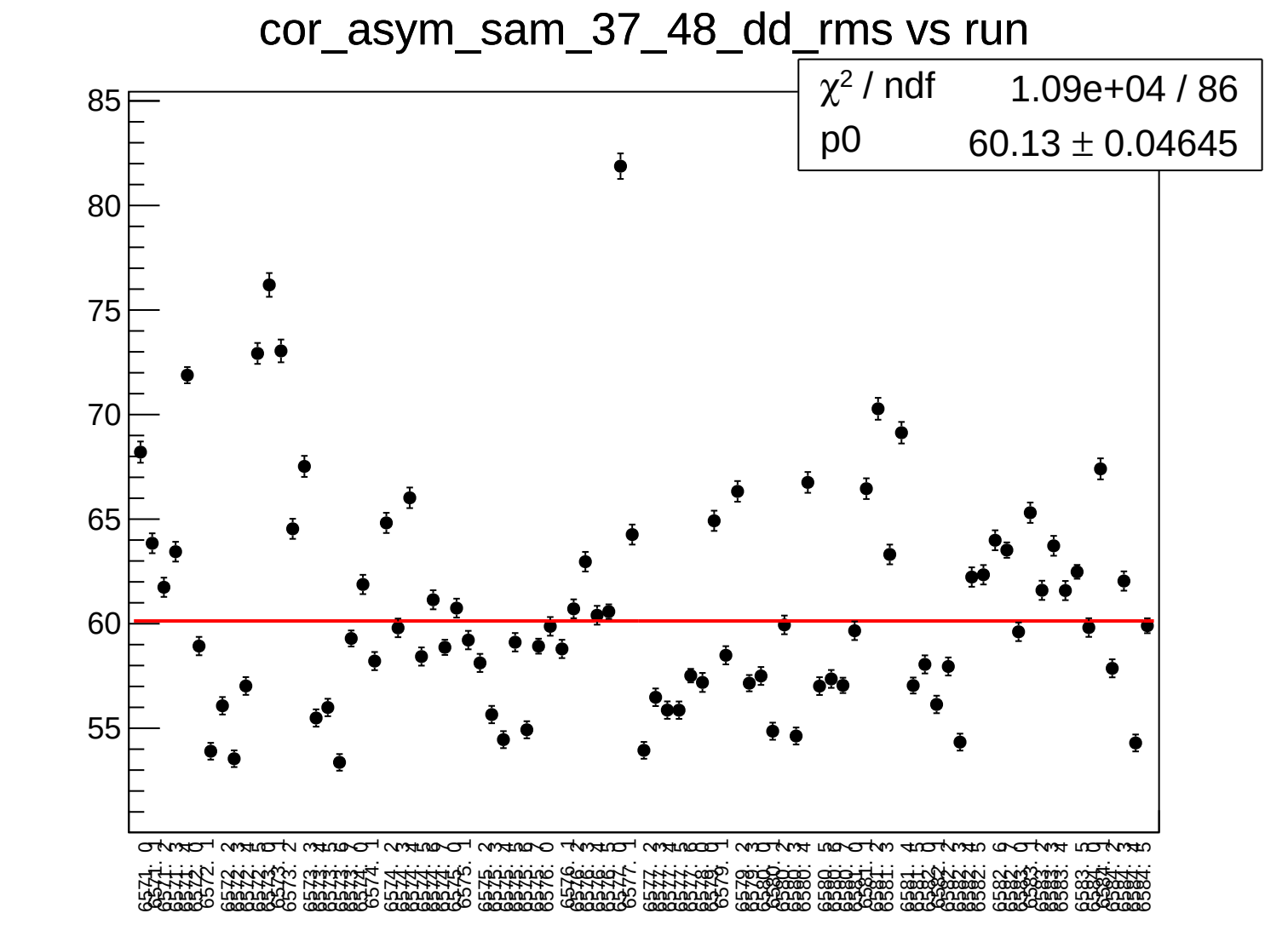

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 119.3 / 86
p0 −50.26 ± 326.1
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 279.8
Std Dev 0
3
2
1
0
−1
−2

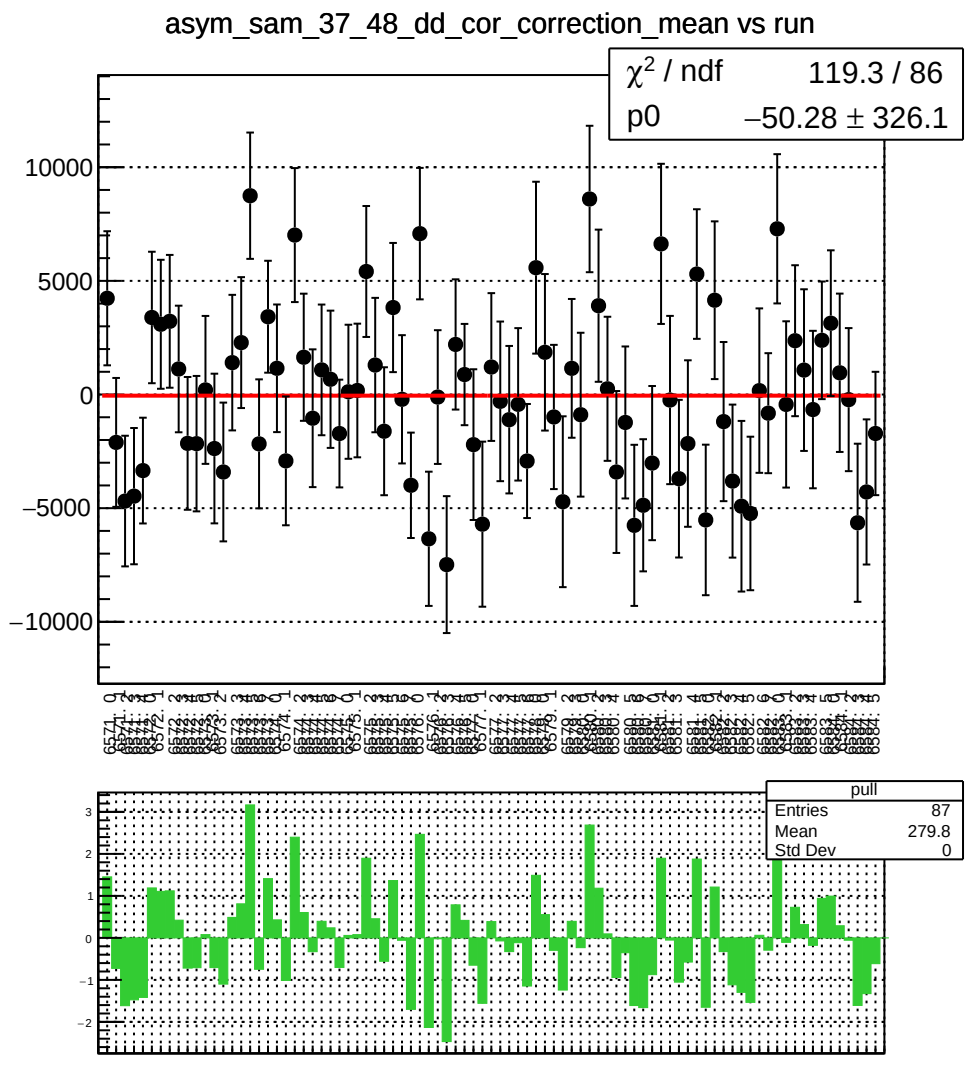

pull1D
Entries 87
Mean −0.0101
Std Dev 1.171
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

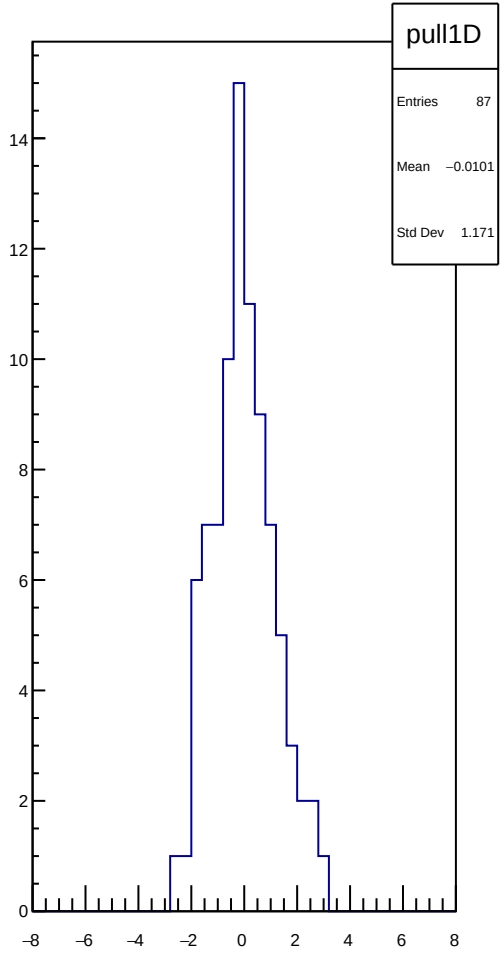

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1.324e+04 / 86
p0 298.3 ± 0.2306
360
340
320
300
280
260

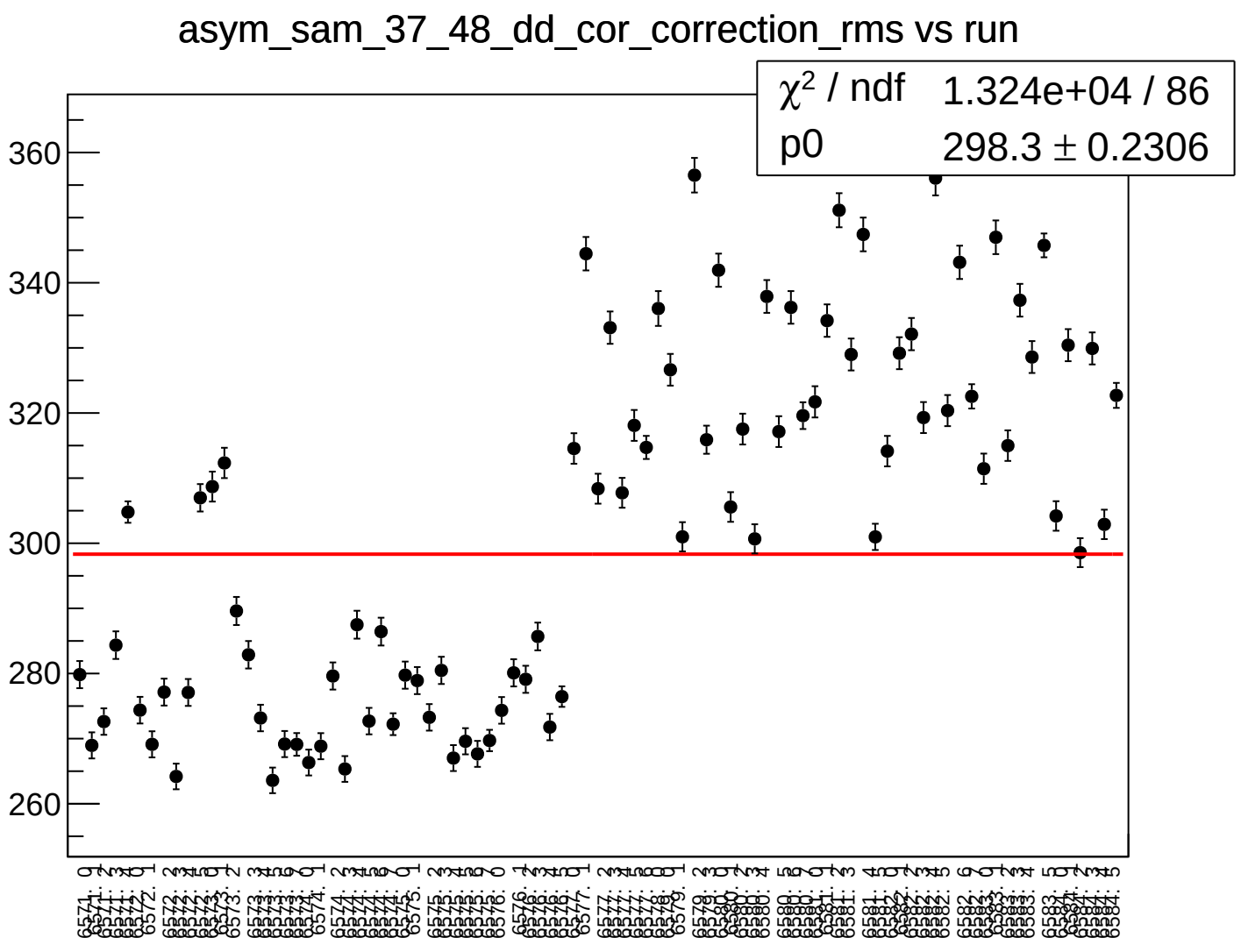

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 75.88 / 86
p0 −59.72 ± 65.69
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 313
Std Dev 0
3
2
1
0
−1
−2

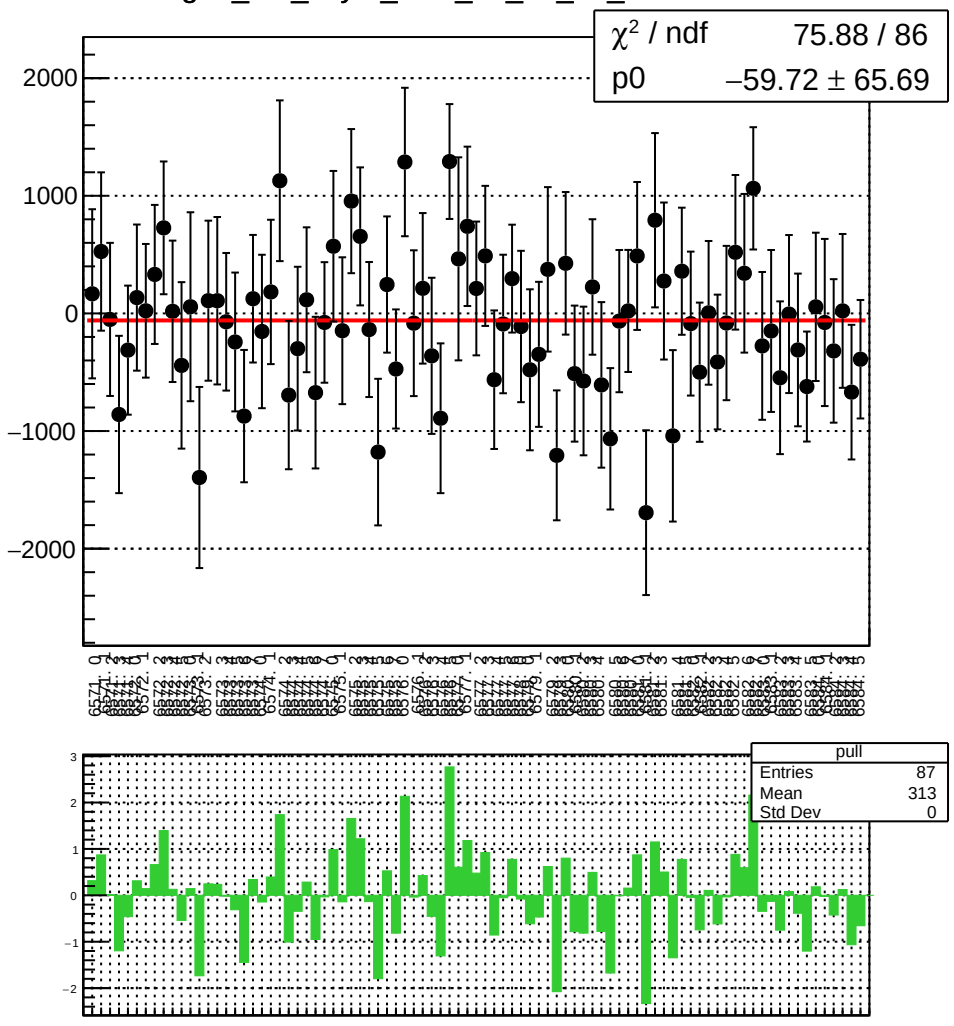

pull1D
Entries 87
Mean −0.008801
Std Dev 0.9339
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

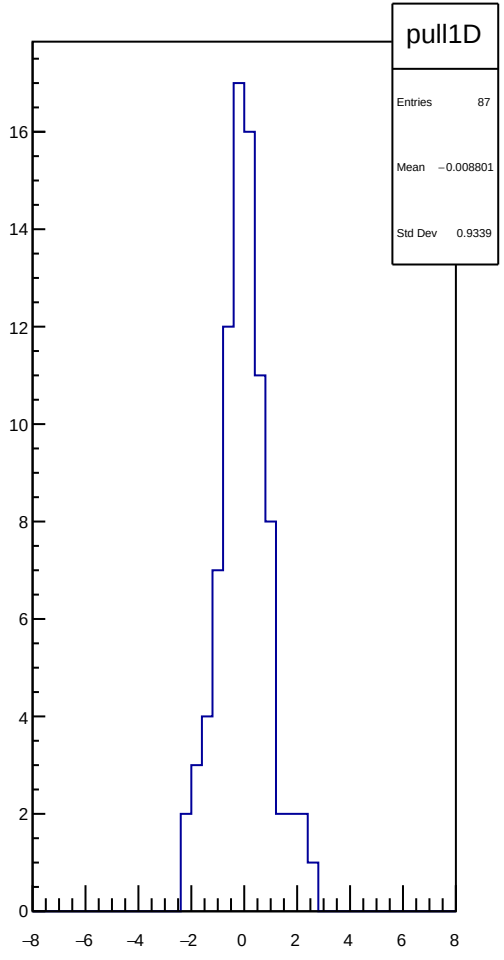

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.09e+04 / 86
p0 60.13 ± 0.04645
85
80
75
70
65
60
55

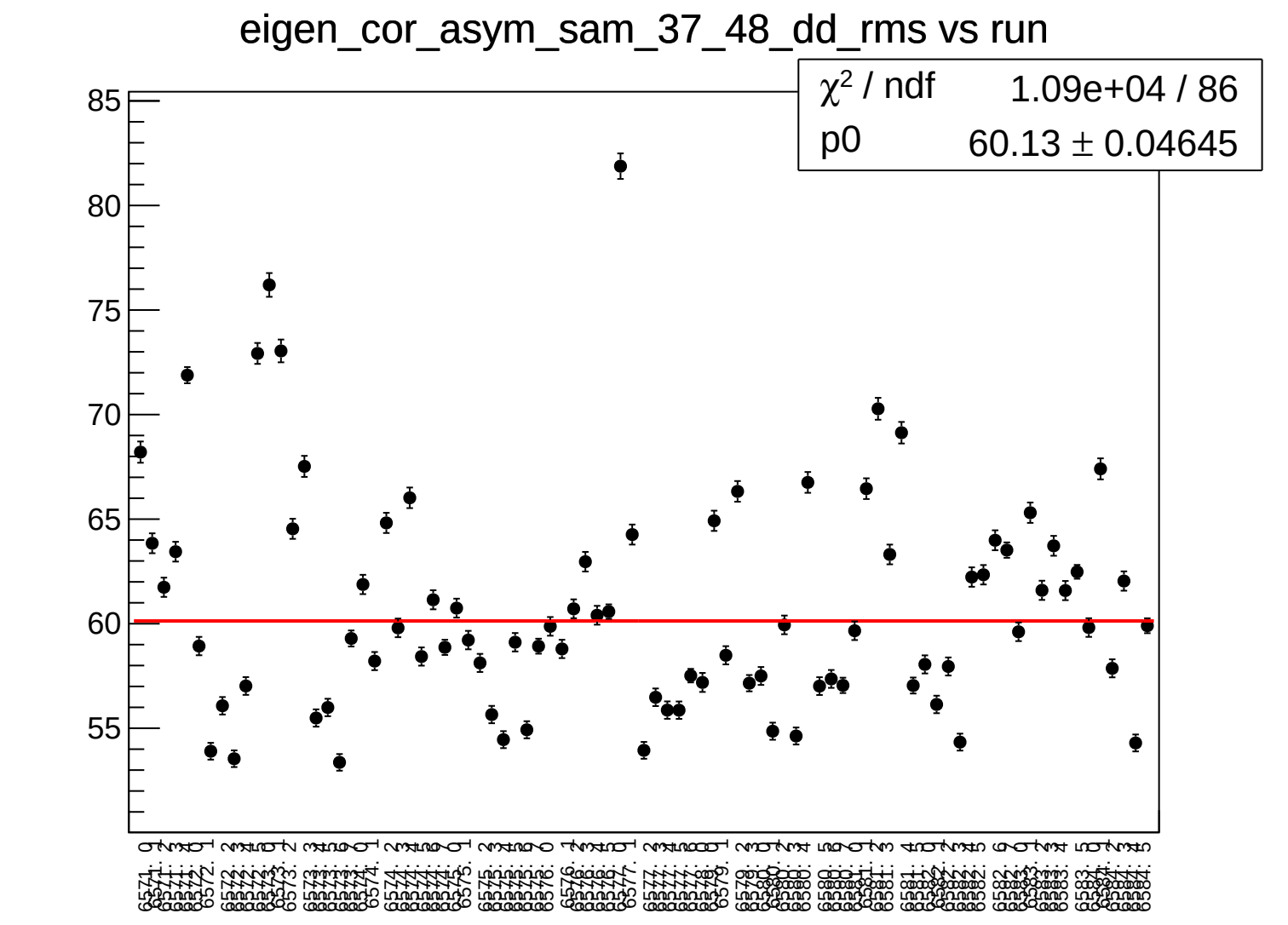

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 119.3 / 86
p0 −50.28 ± 326.1
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 279.8
Std Dev 0
3
2
1
0
−1
−2

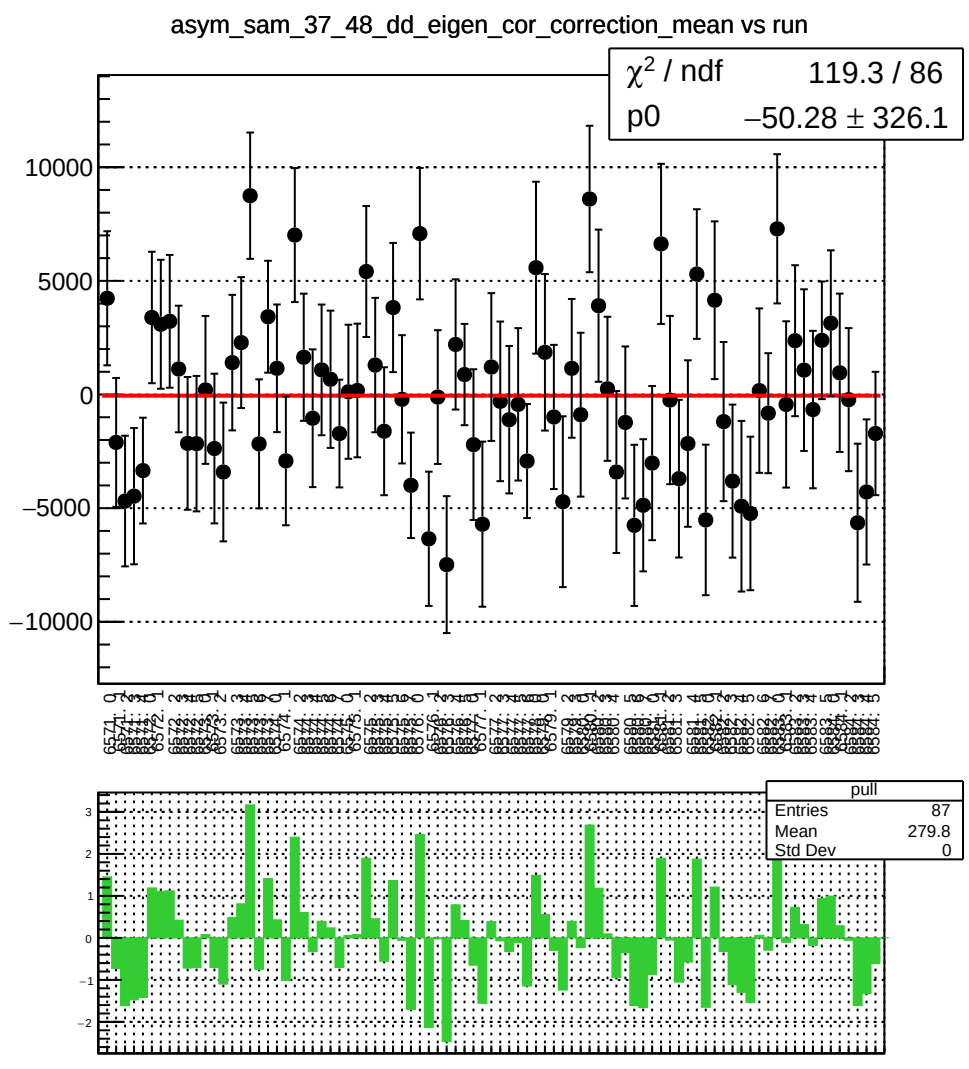

pull1D
Entries 87
Mean −0.0101
Std Dev 1.171
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

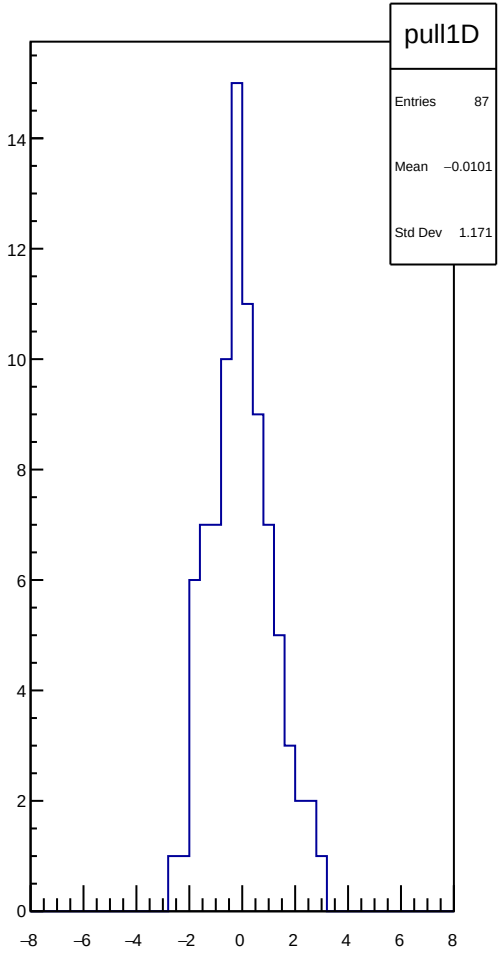

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.324e+04 / 86
p0 298.3 ± 0.2306
360
340
320
300
280
260

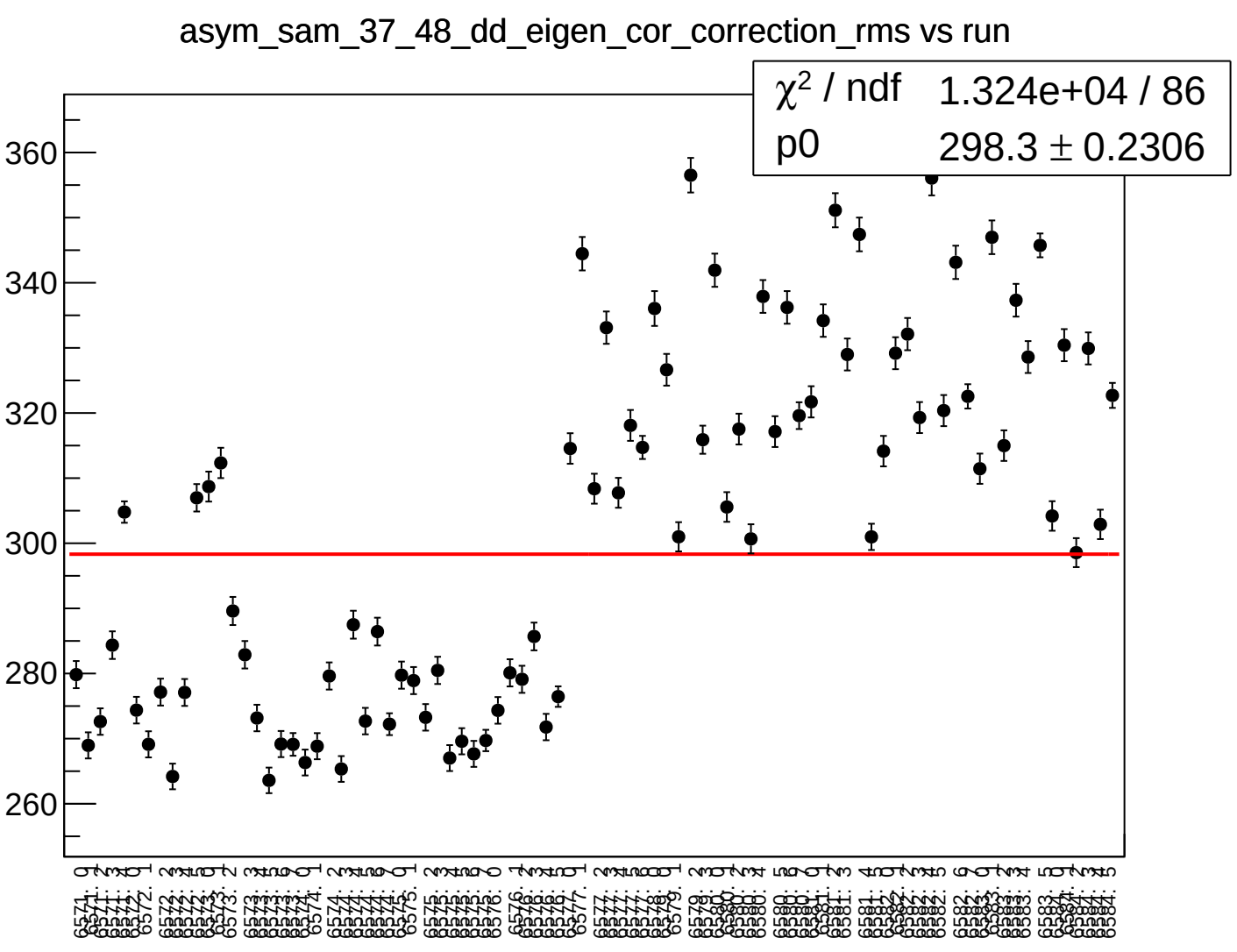

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 75.88 / 86
p0 −59.72 ± 65.69
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 313
Std Dev 0
3
2
1
0
−1
−2

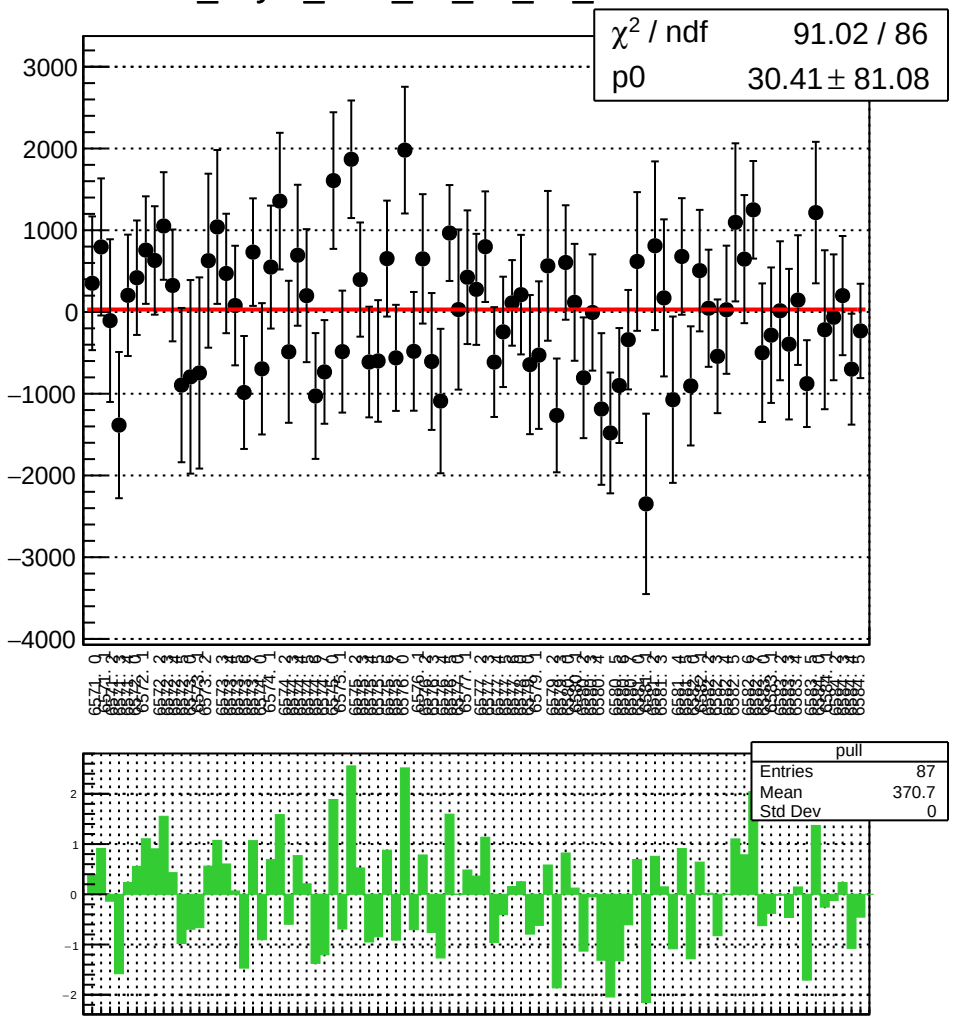

pull1D
Entries 87
Mean −0.008801
Std Dev 0.9339
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

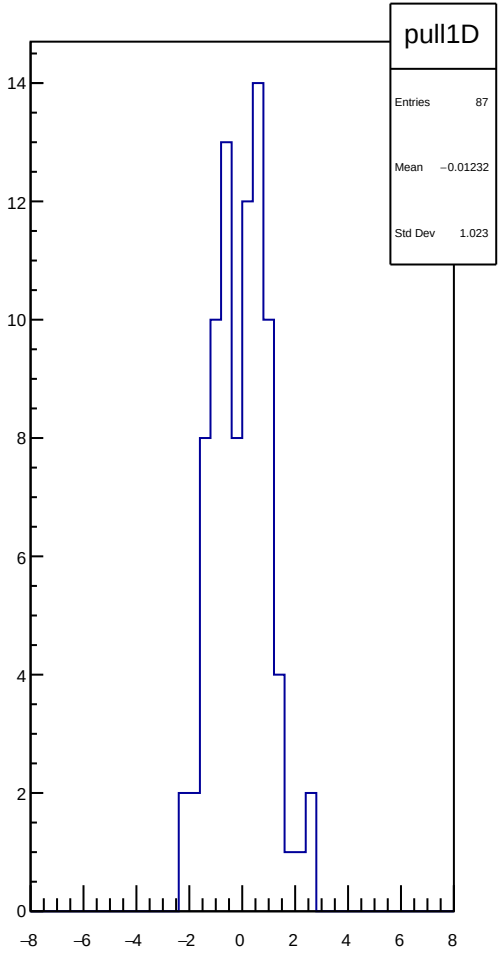

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.09e+04 / 86
p0 60.13 ± 0.04645
85
80
75
70
65
60
55

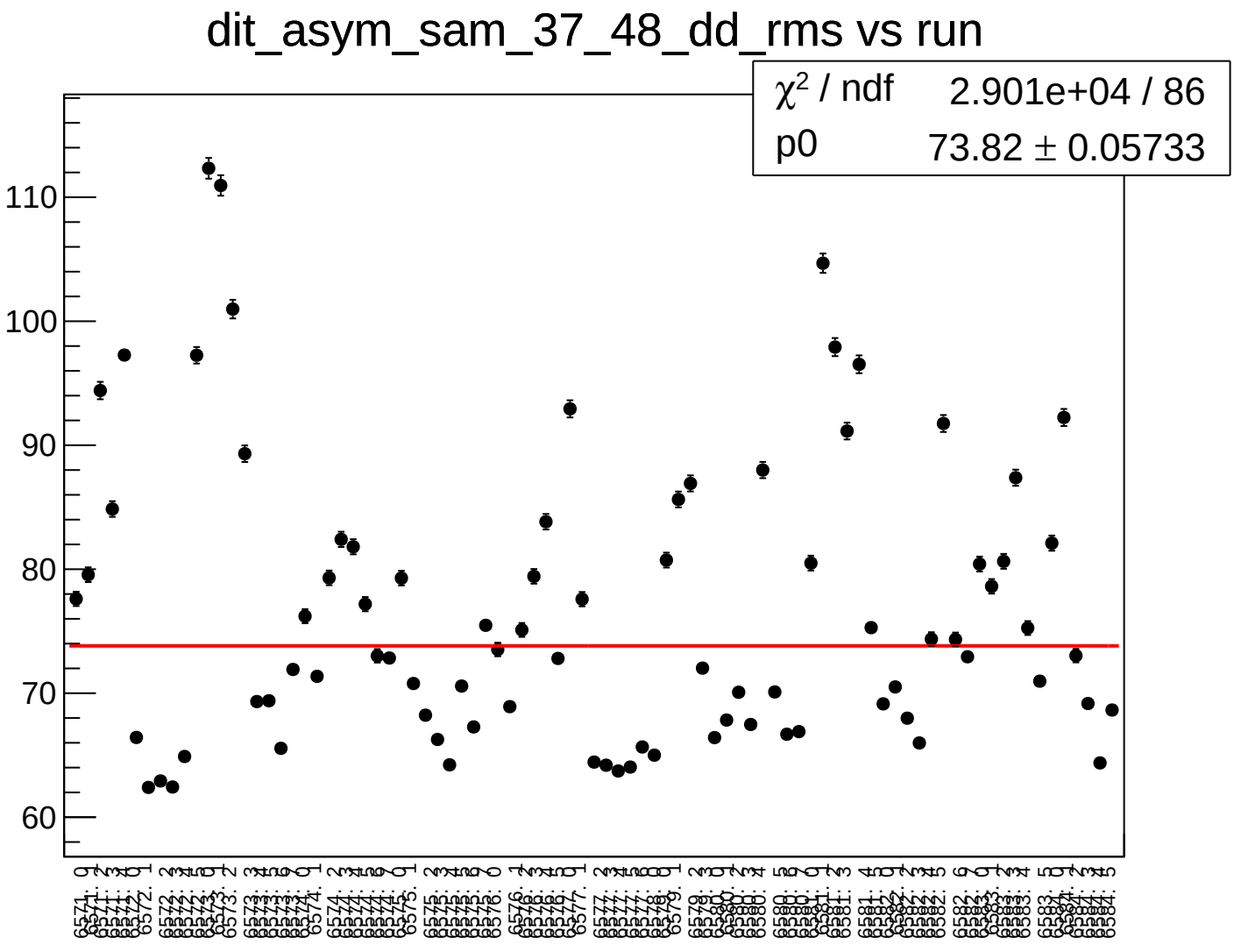

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 119.3 / 86
p0 −50.28 ± 326.1
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 279.8
Std Dev 0
3
2
1
0
−1
−2

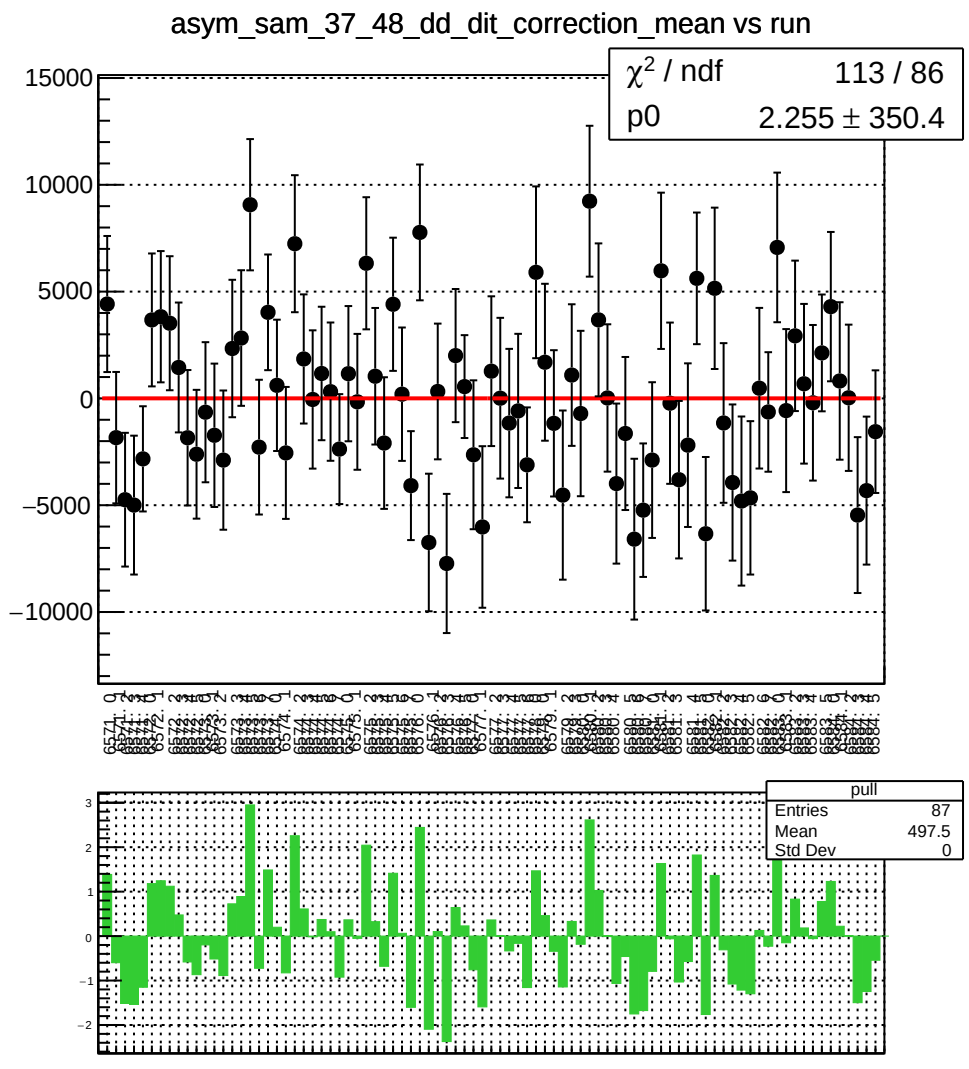

pull1D
Entries 87
Mean −0.0101
Std Dev 1.171
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

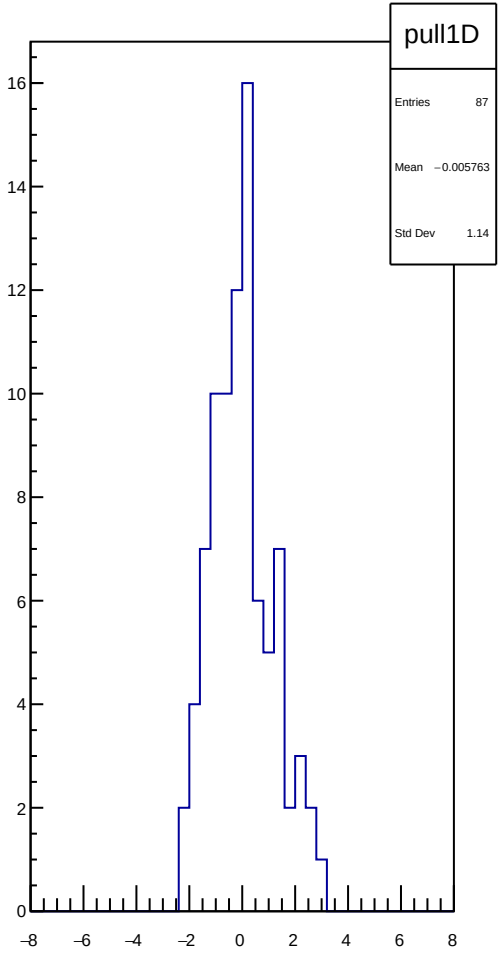

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.324e+04 / 86
p0 298.3 ± 0.2306
360
340
320
300
280
260

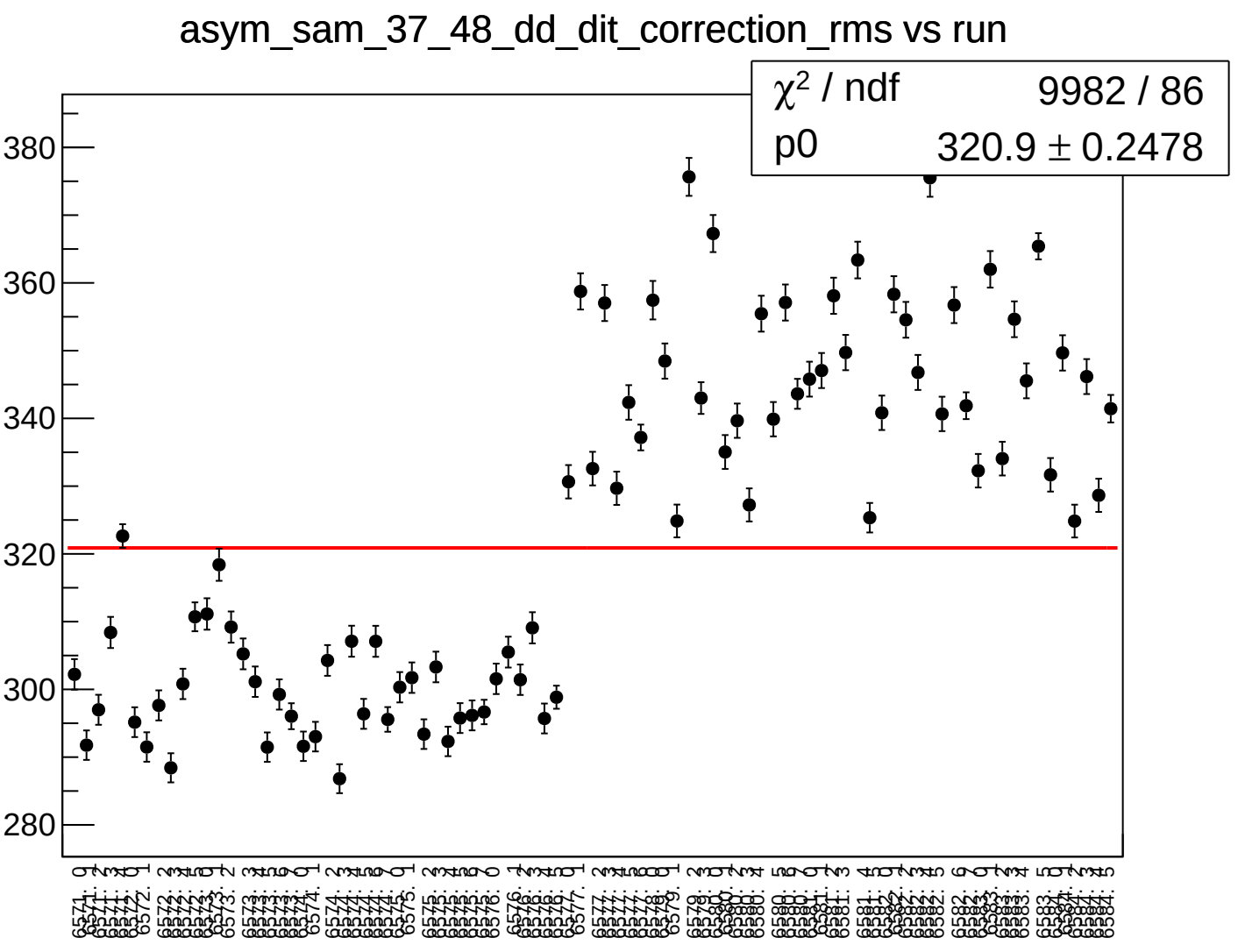

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 91.02 / 86
p0 30.41 ± 81.08
pull
Entries 87
Mean 370.7
Std Dev 0

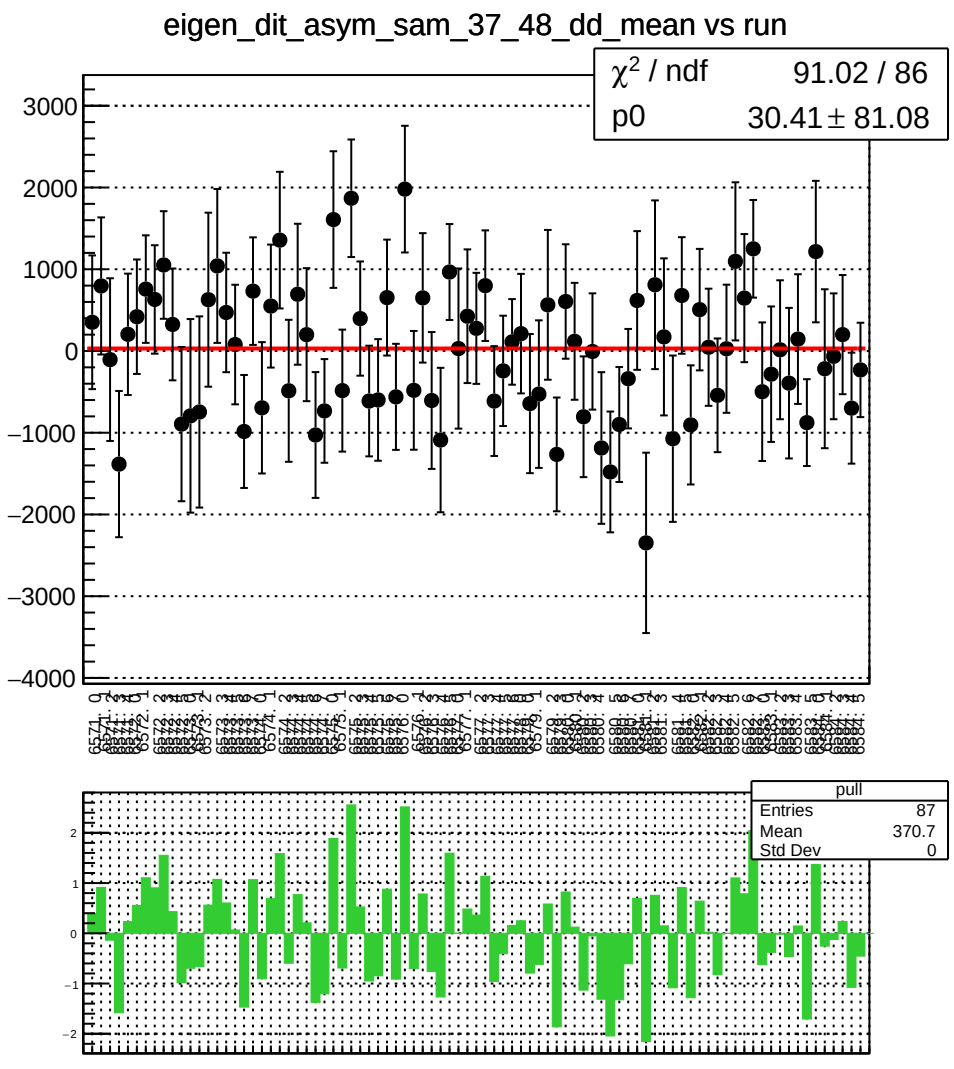

pull1D
Entries 87
Mean −0.01232
Std Dev 1.023

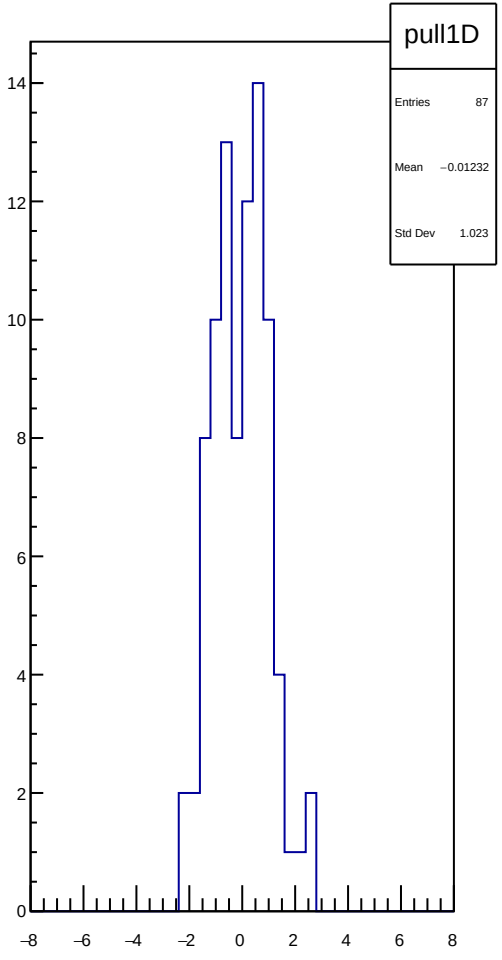

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2.901e+04 / 86
p0 73.82 ± 0.05733
110
100
90
80
70
60

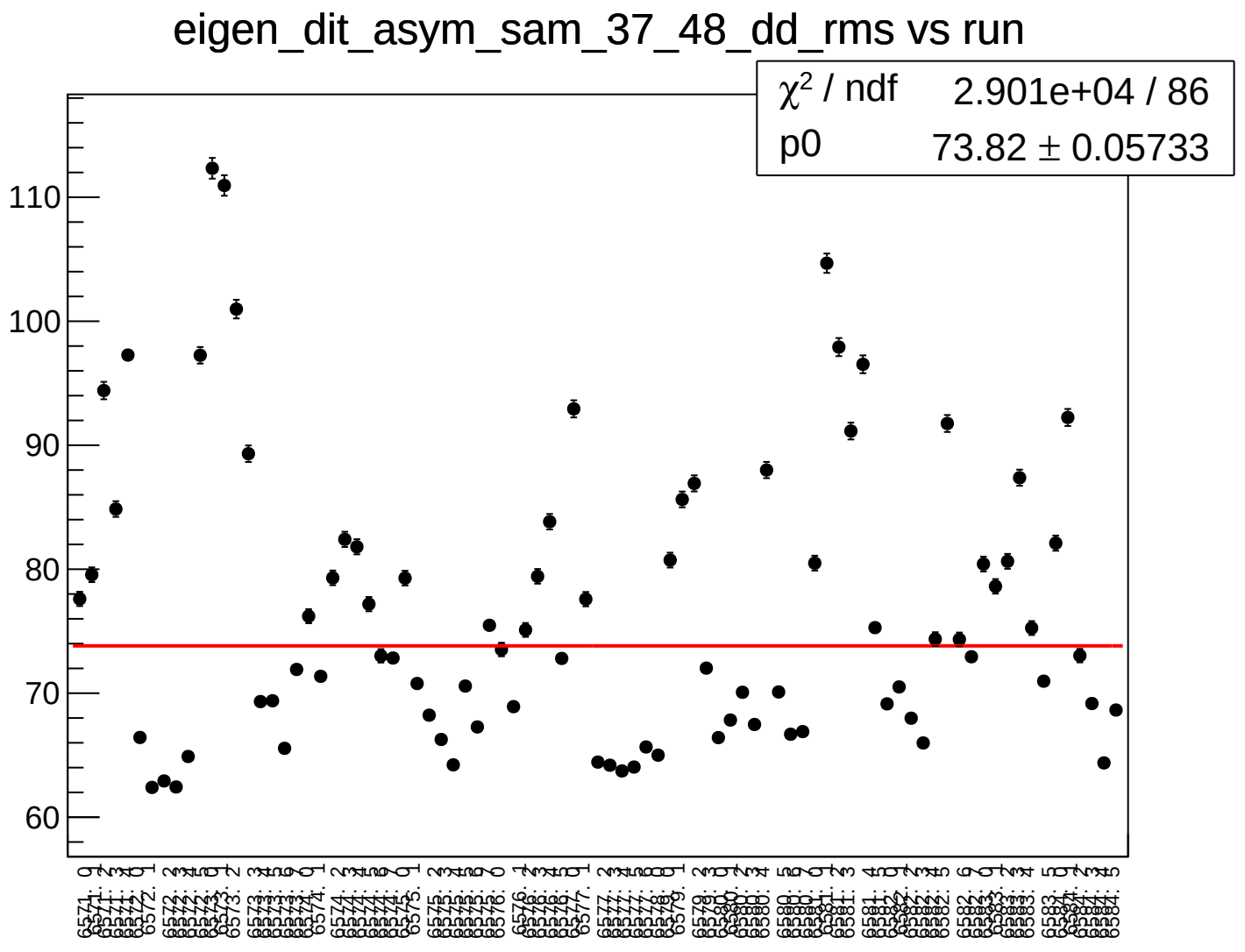

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 113 / 86
p0 2.255 ± 350.4
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 497.5
Std Dev 0
3
2
1
0
−1
−2

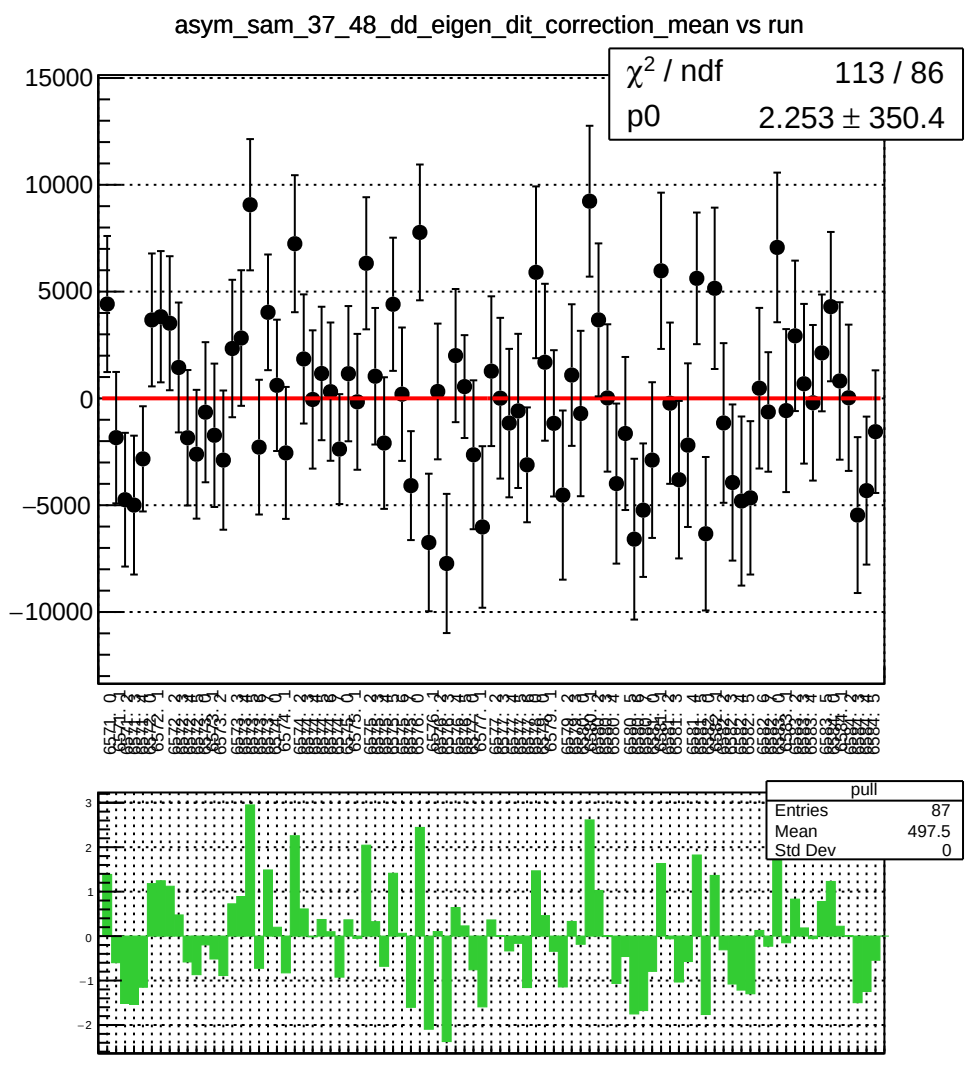

pull1D
Entries 87
Mean −0.005763
Std Dev 1.14
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

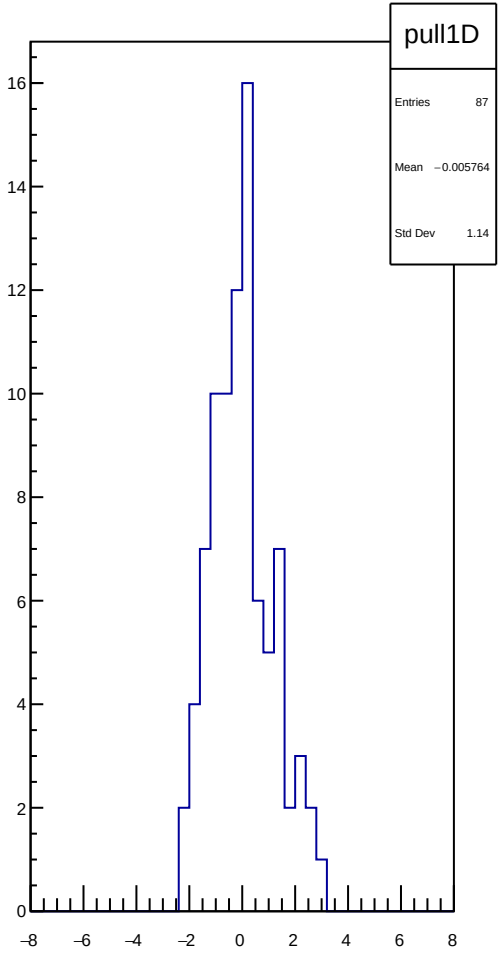

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 9982 / 86
p0 320.9 ± 0.2478
380
360
340
320
300
280

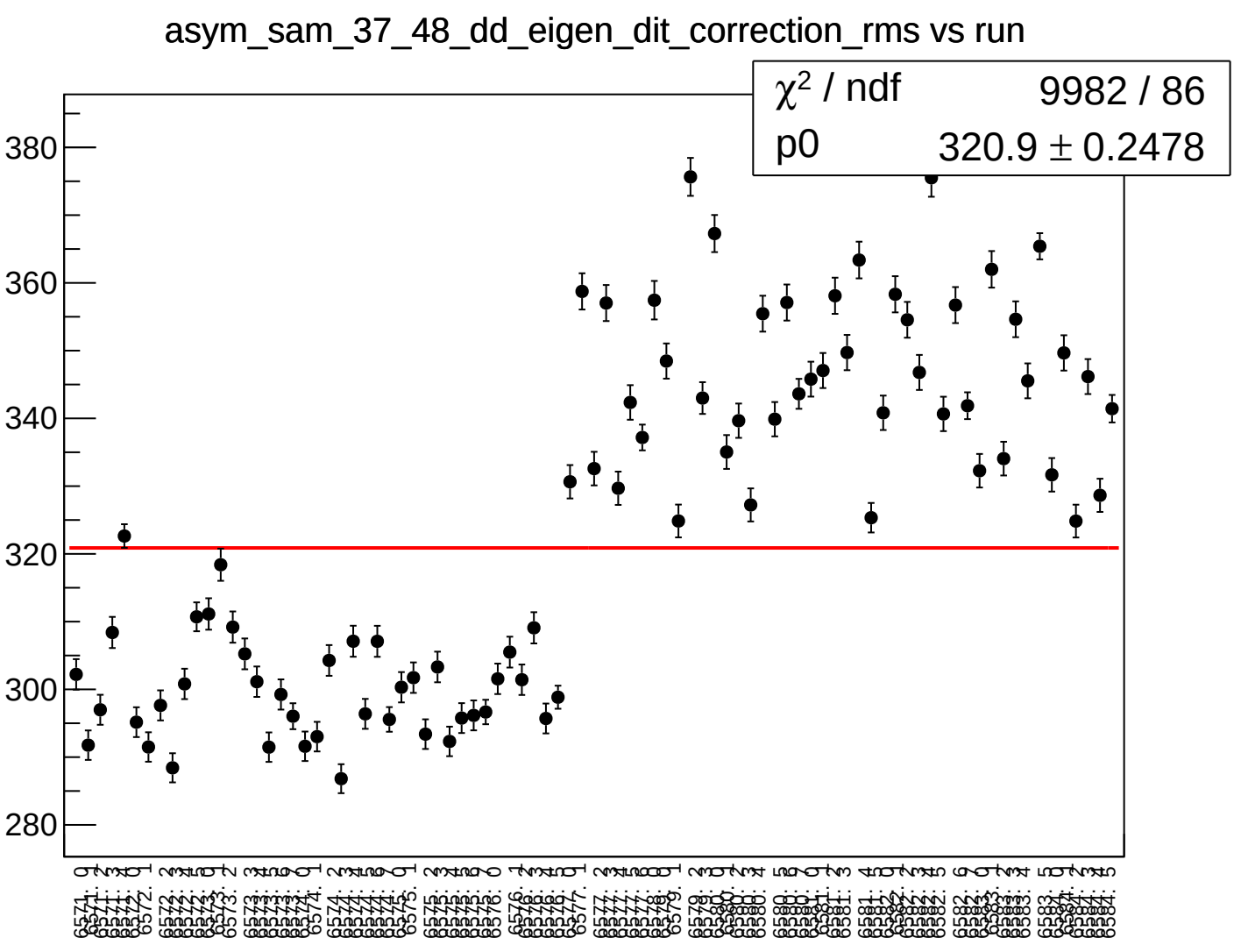

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 91.02 / 86
p0 30.41 ± 81.08
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean 370.7
Std Dev 0
2
1
0
−1
−2

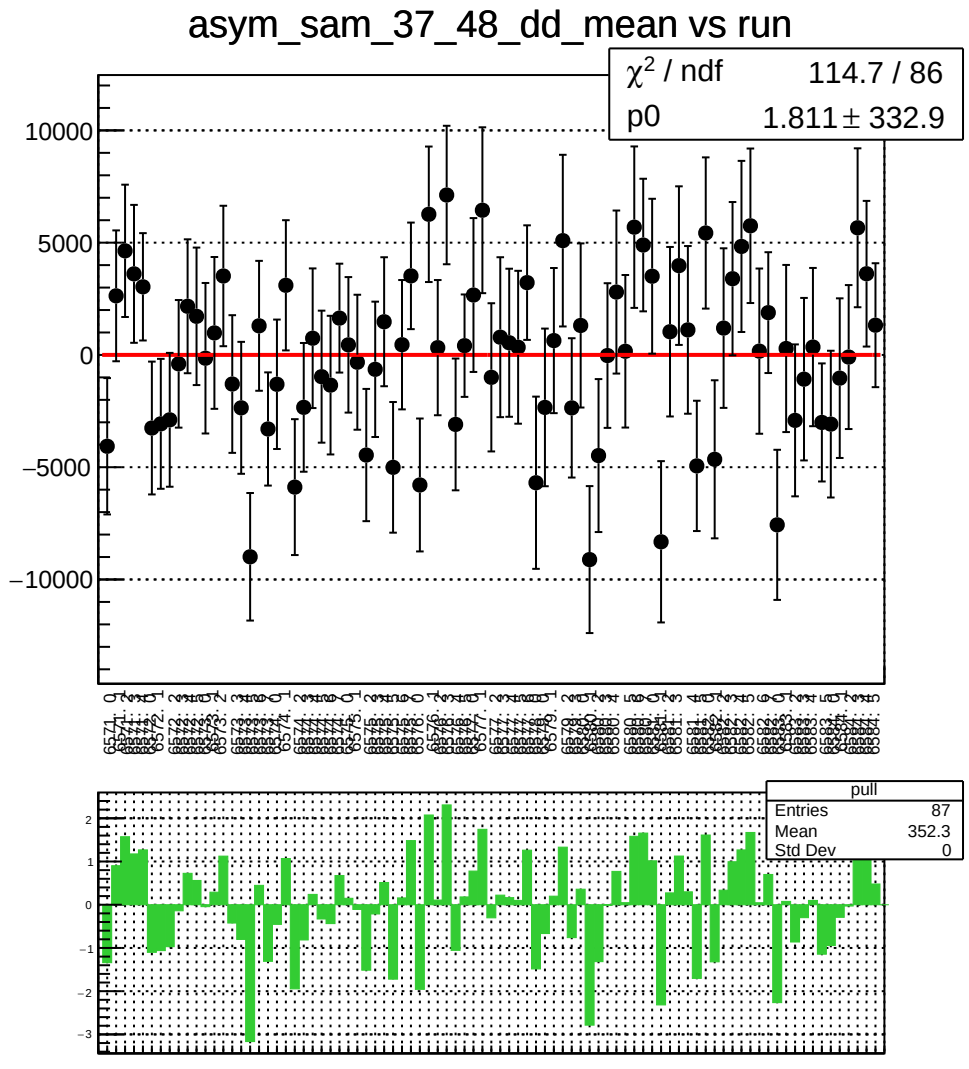

pull1D
Entries 87
Mean −0.01232
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

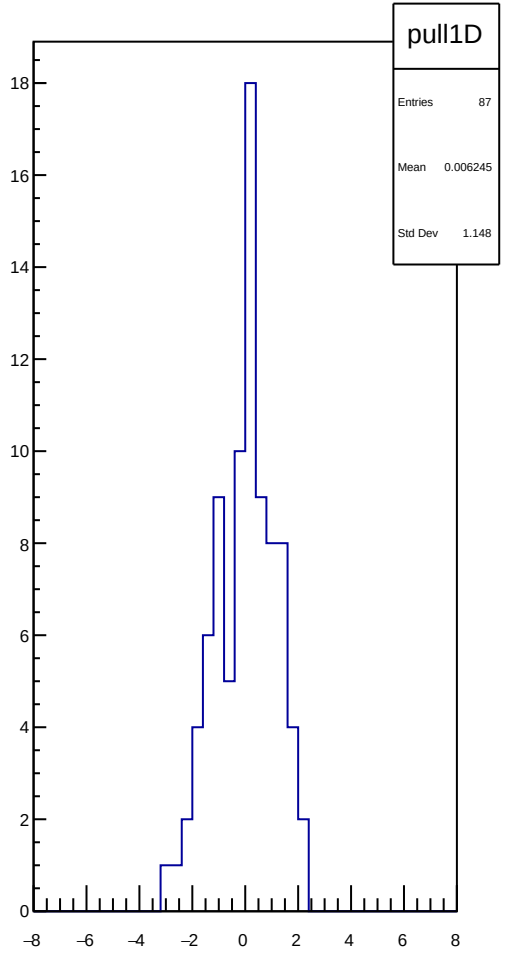

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2.901e+04 / 86
p0 73.82 ± 0.05733
110
100
90
80
70
60

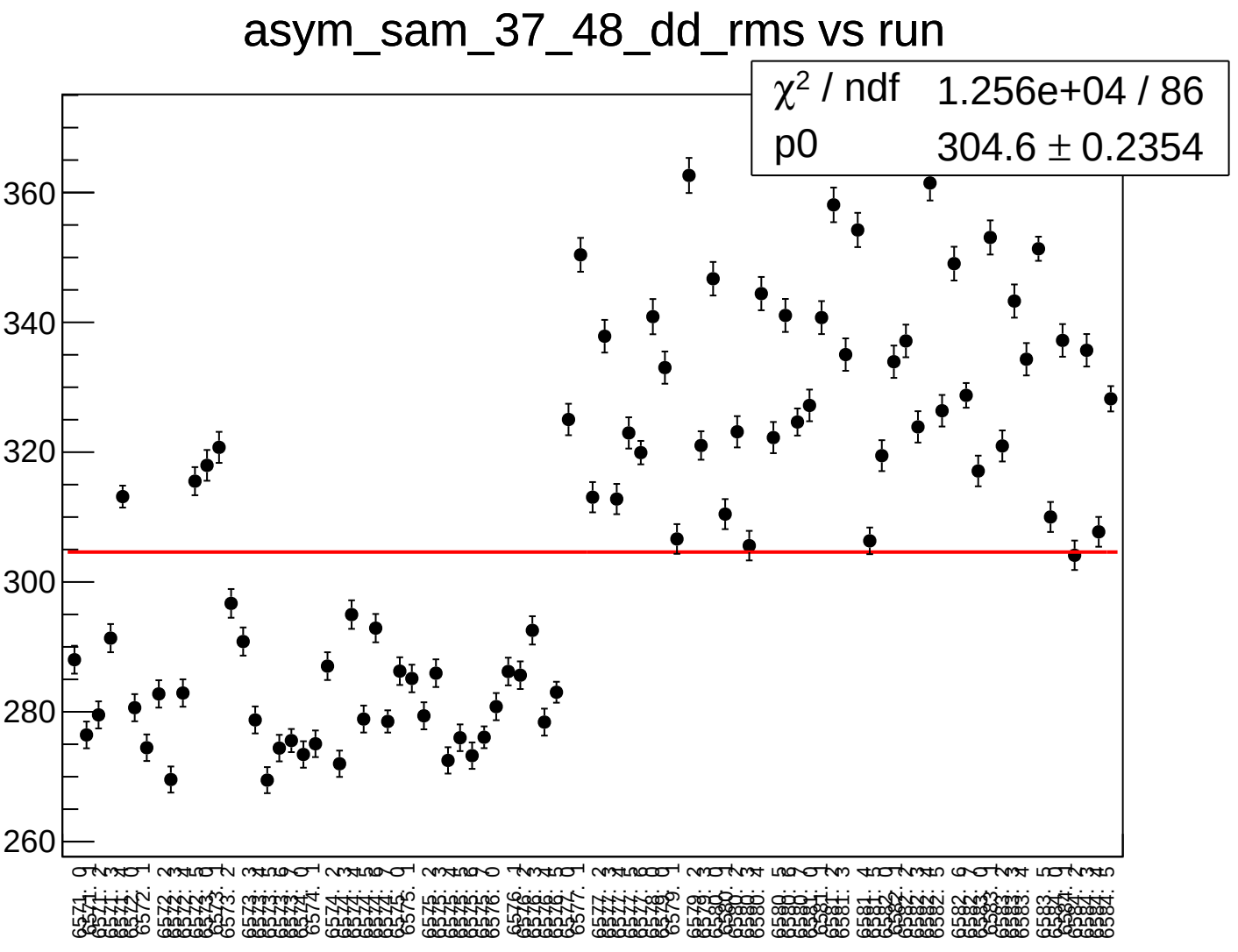

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 113 / 86
p0 2.253 ± 350.4
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 497.5
Std Dev 0
3
2
1
0
−1
−2

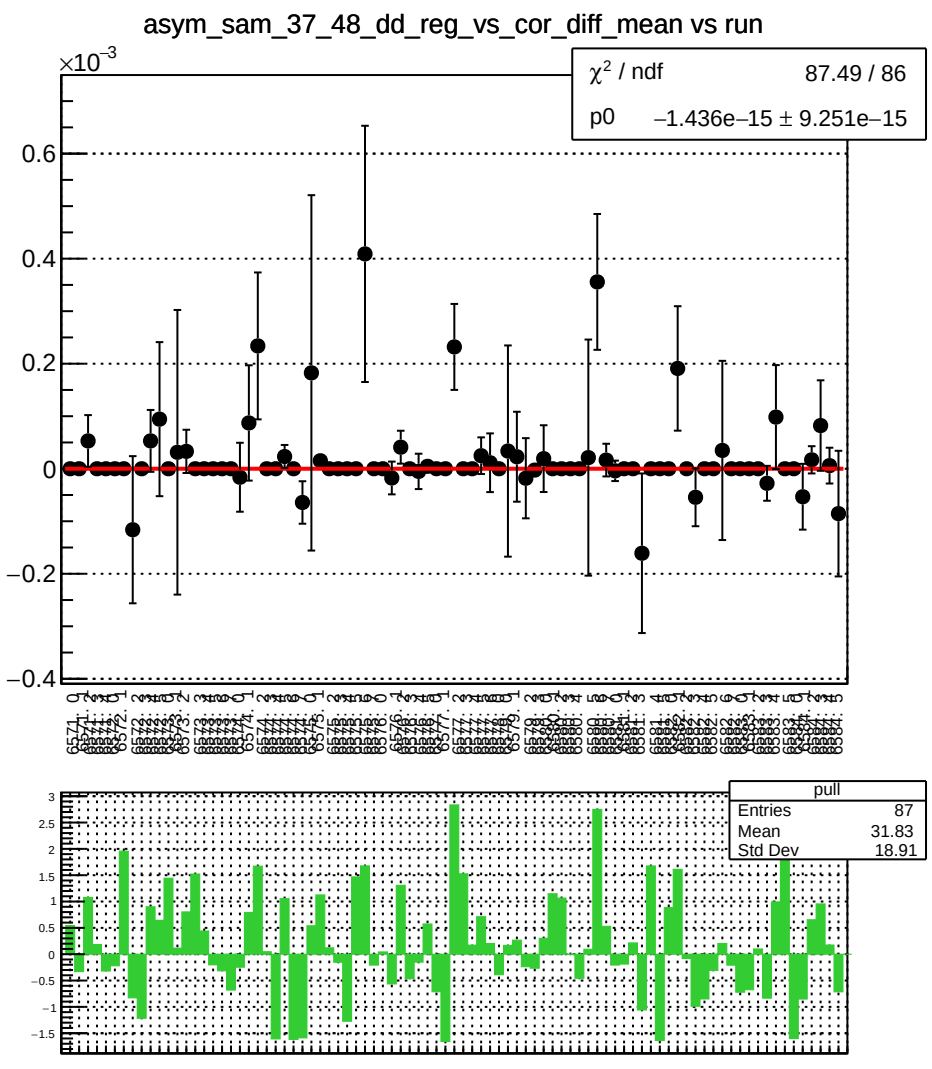

pull1D
Entries 87
Mean −0.005764
Std Dev 1.14
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

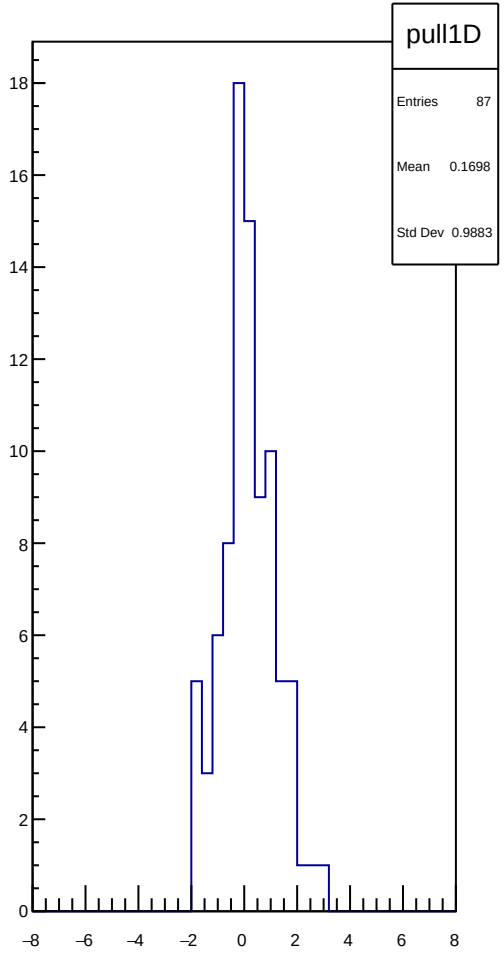

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 9982 / 86
p0 320.9 ± 0.2478
380
360
340
320
300
280

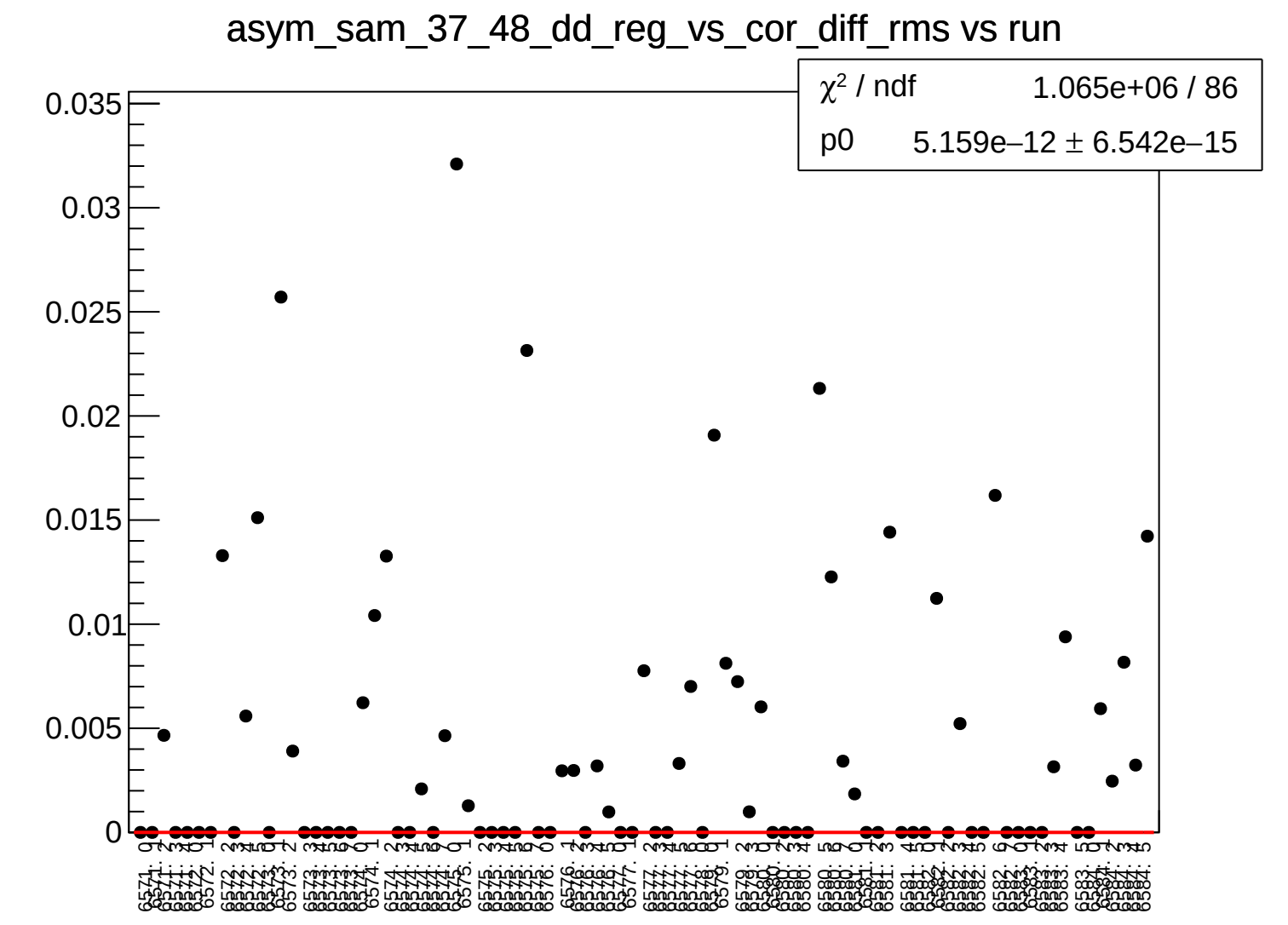

asym_sam_37_48_dd_mean vs run
χ² / ndf 114.7 / 86
p0 1.811 ± 332.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 352.3
Std Dev 0
2
1
0
−1
−2
−3

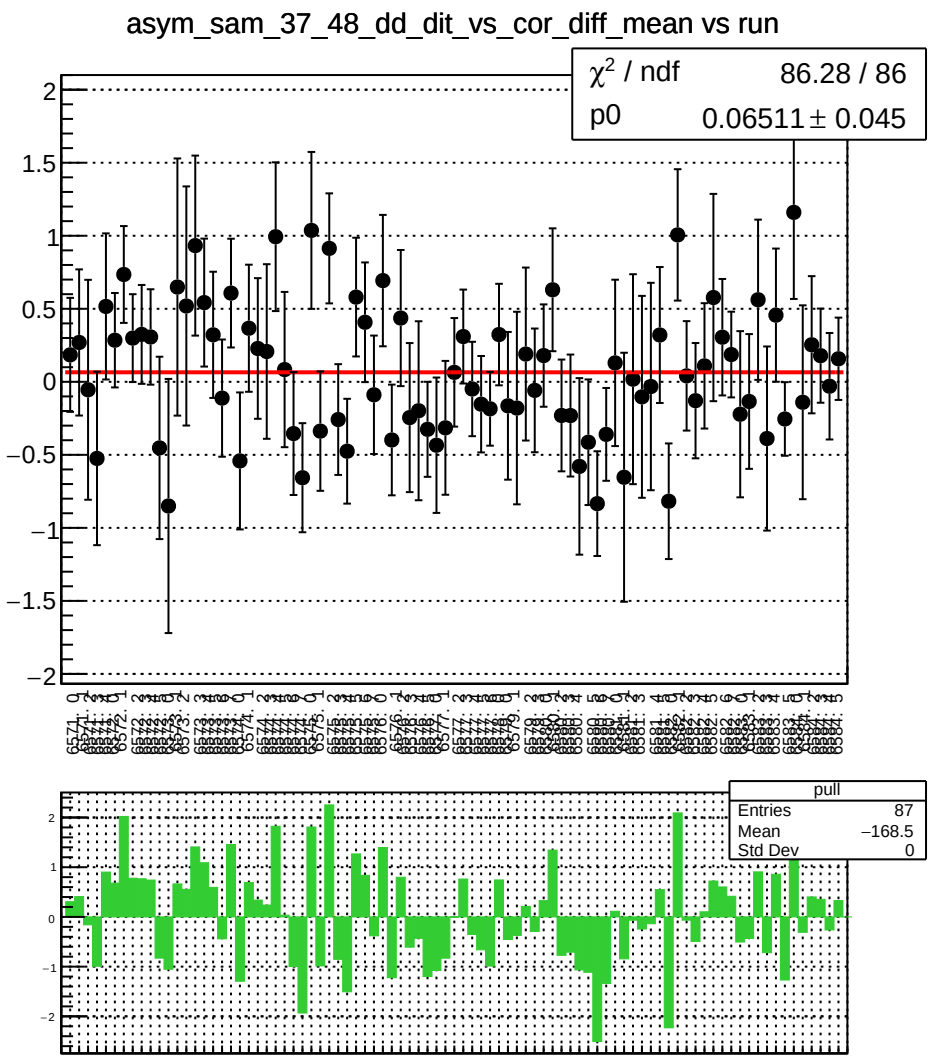

pull1D
Entries 87
Mean 0.006245
Std Dev 1.148
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

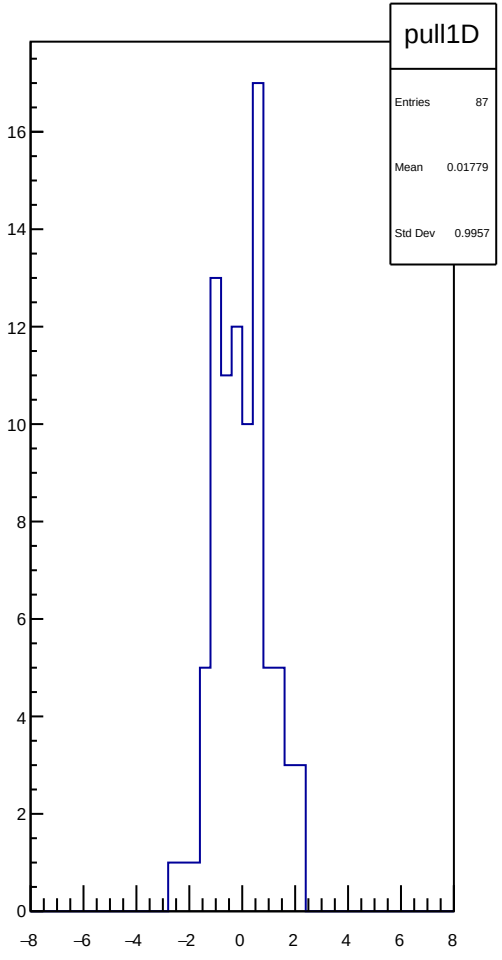

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.256e+04 / 86
p0 304.6 ± 0.2354
360
340
320
300
280
260

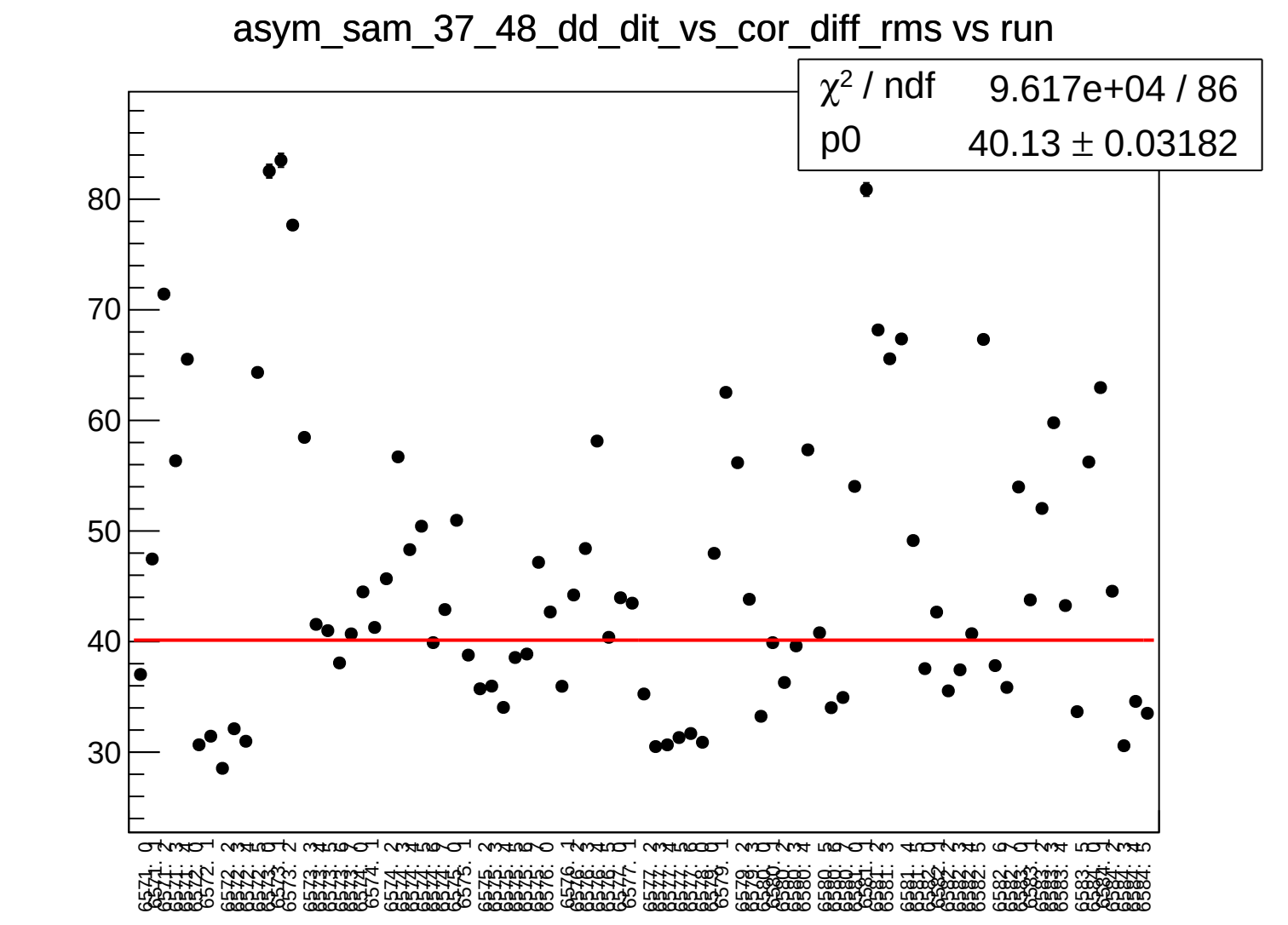

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.49 / 86
p0 −1.436e−15 ± 9.251e−15
×10⁻³
pull
Entries 87
Mean 31.83
Std Dev 18.91

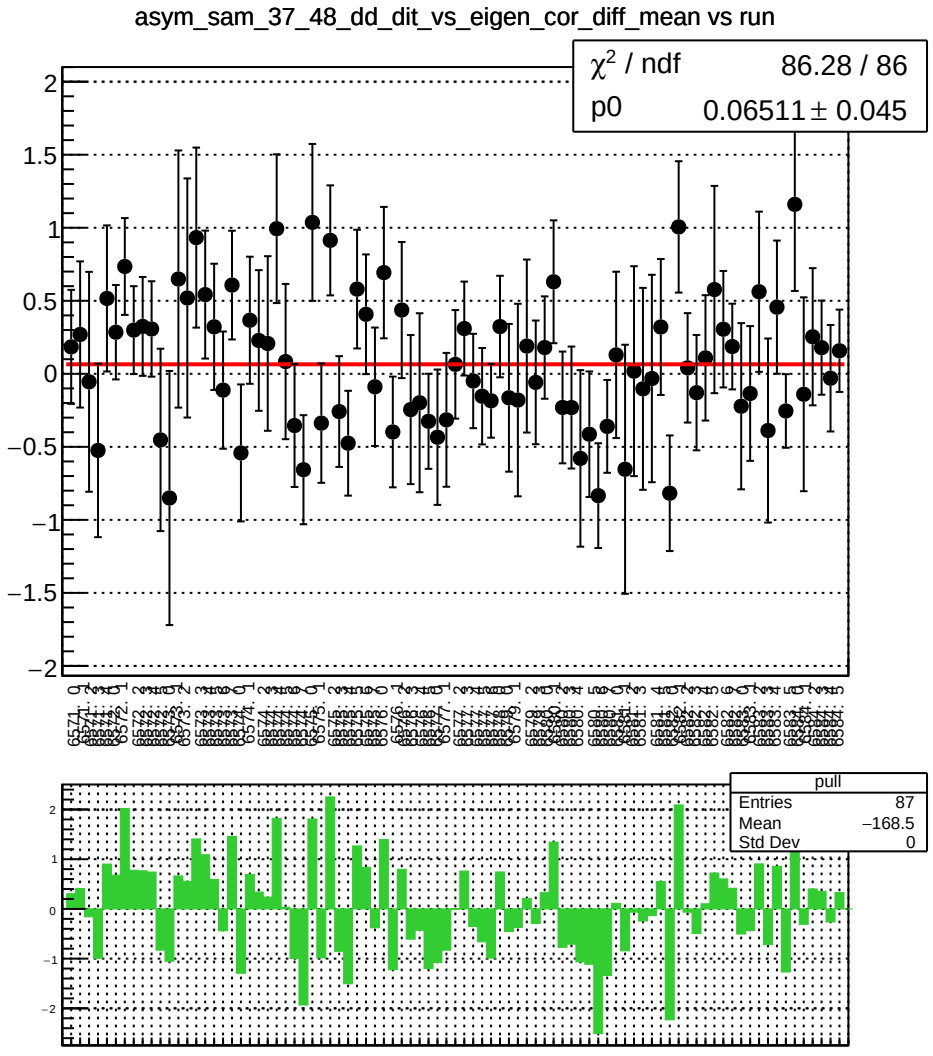

pull1D
Entries 87
Mean 0.1698
Std Dev 0.9883

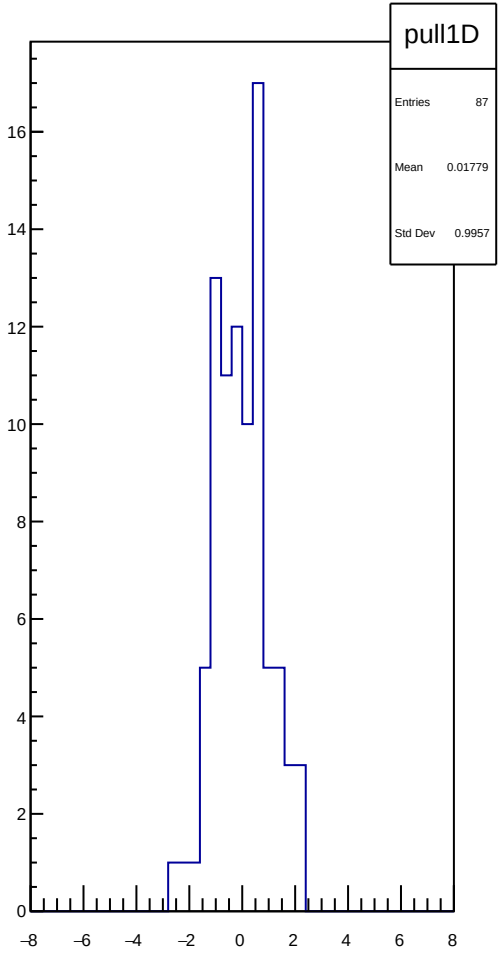

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 86
p0 5.159e−12 ± 6.542e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

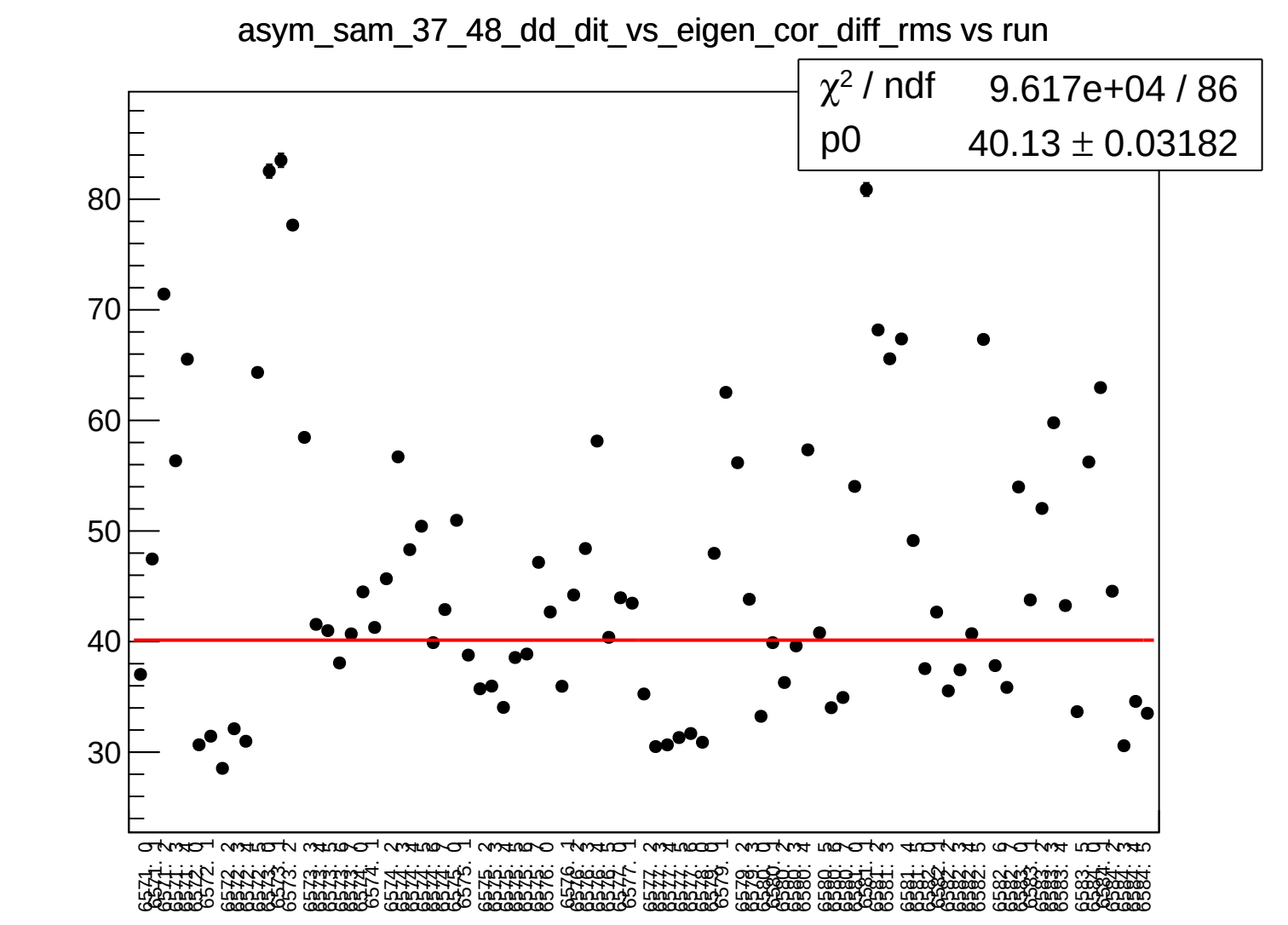

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.28 / 86
p0 0.06511 ± 0.045
pull
Entries 87
Mean −168.5
Std Dev 0

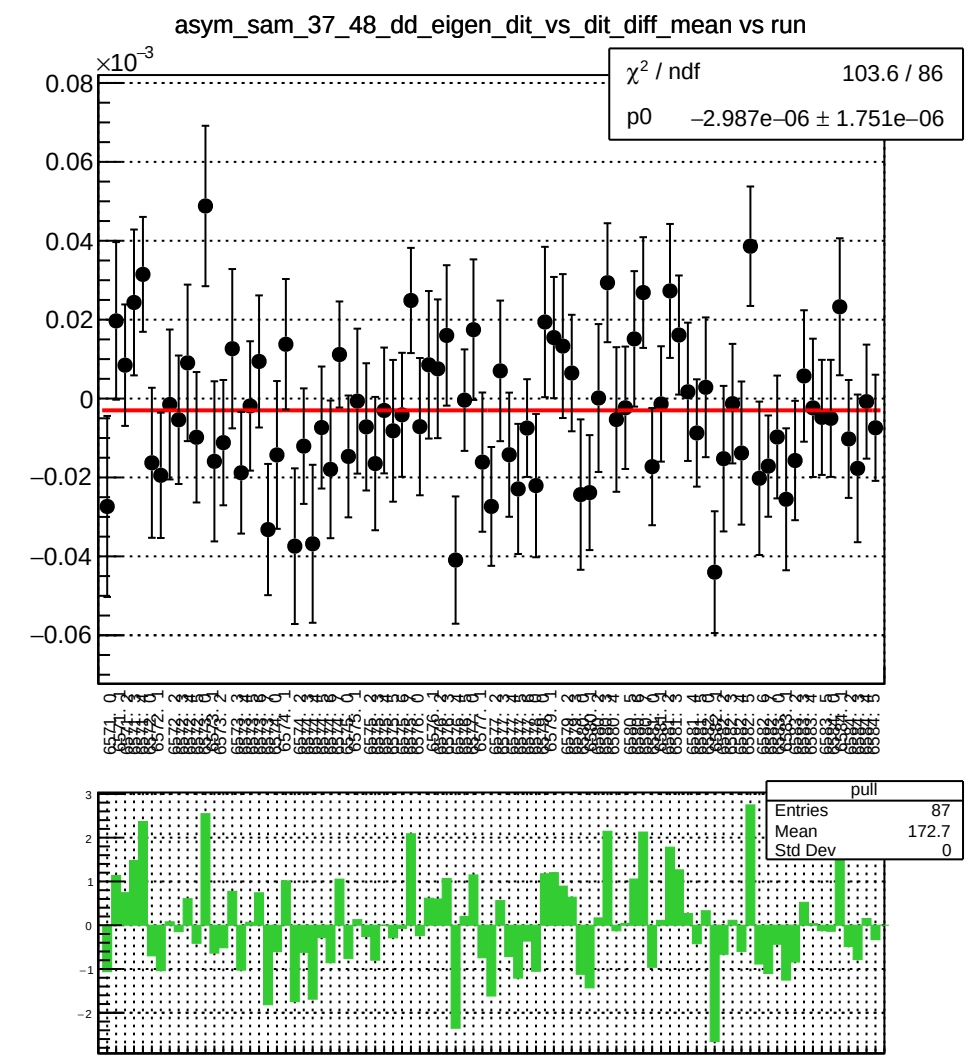

pull1D
Entries 87
Mean 0.01779
Std Dev 0.9957

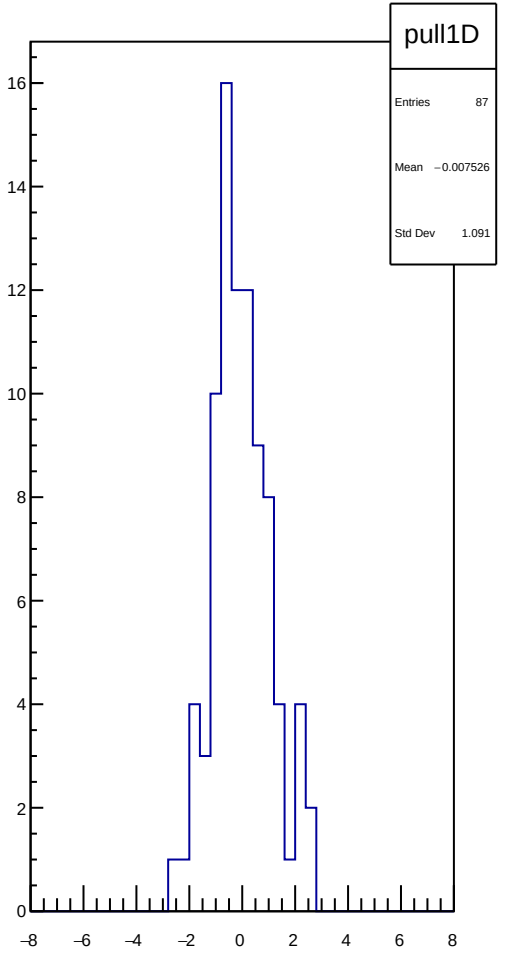

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.617e+04 / 86
p0 40.13 ± 0.03182
80
70
60
50
40
30

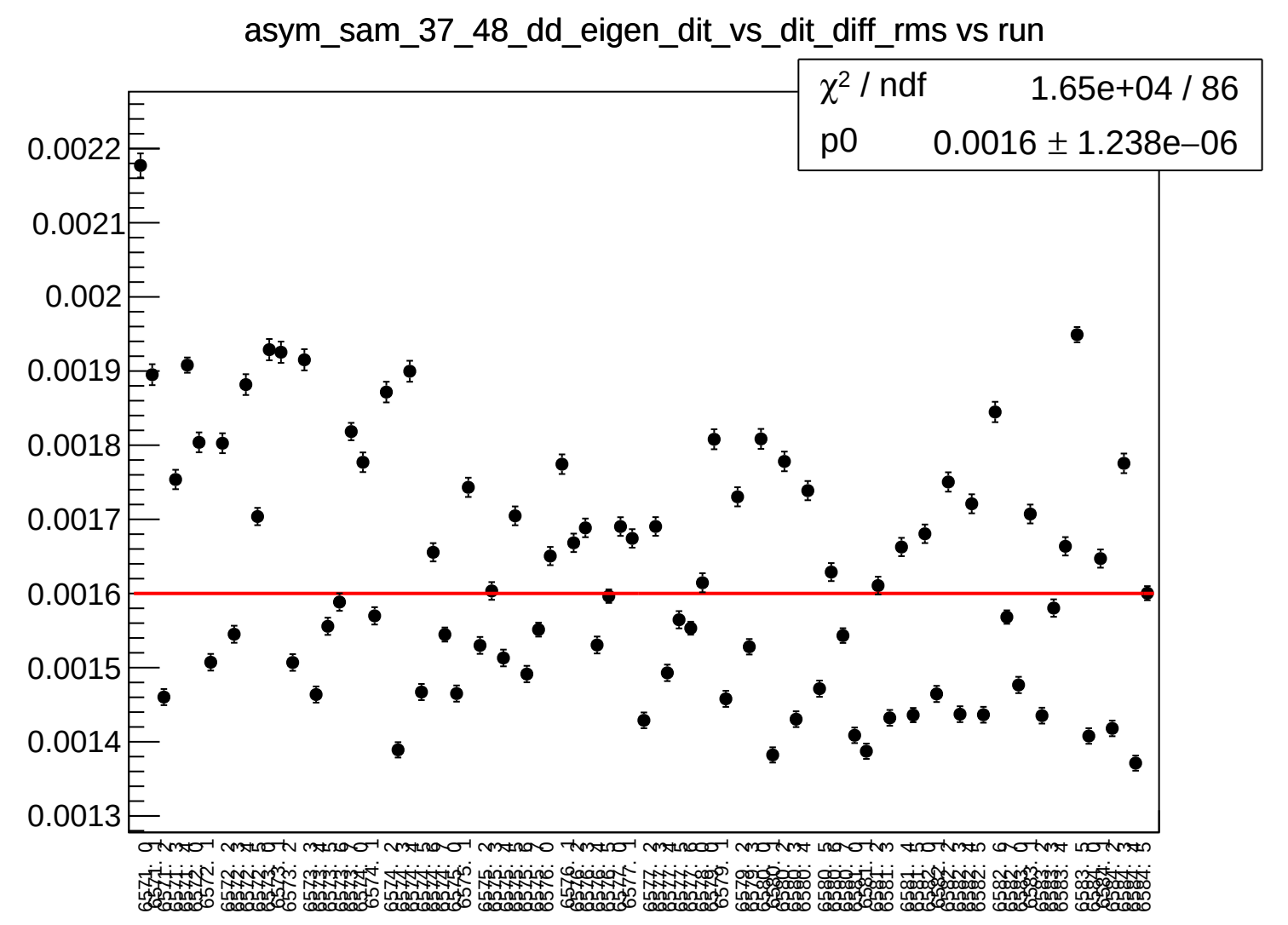

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.28 / 86
p0 0.06511 ± 0.045
pull
Entries 87
Mean −168.5
Std Dev 0

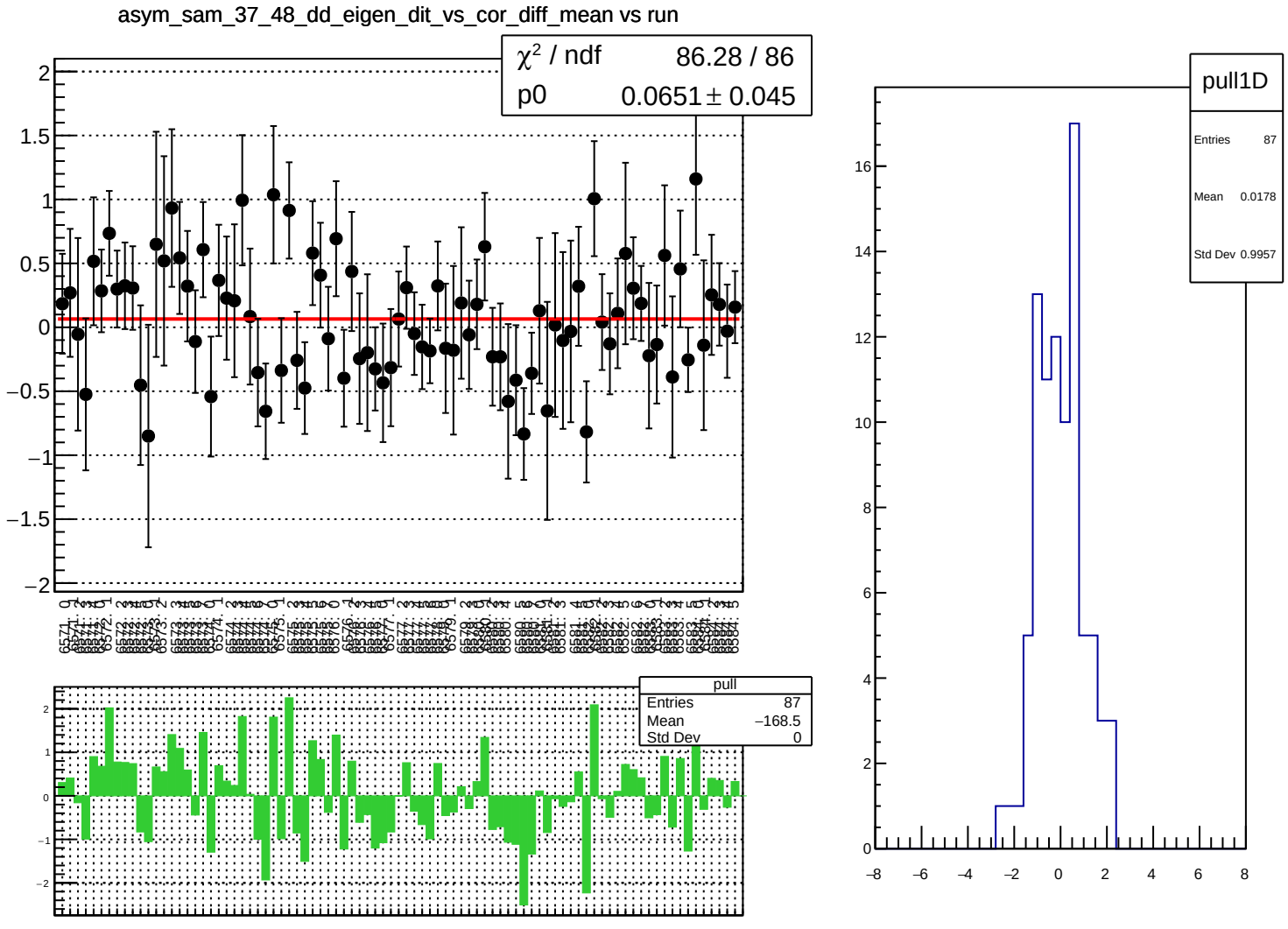

pull1D
Entries 87
Mean 0.01779
Std Dev 0.9957

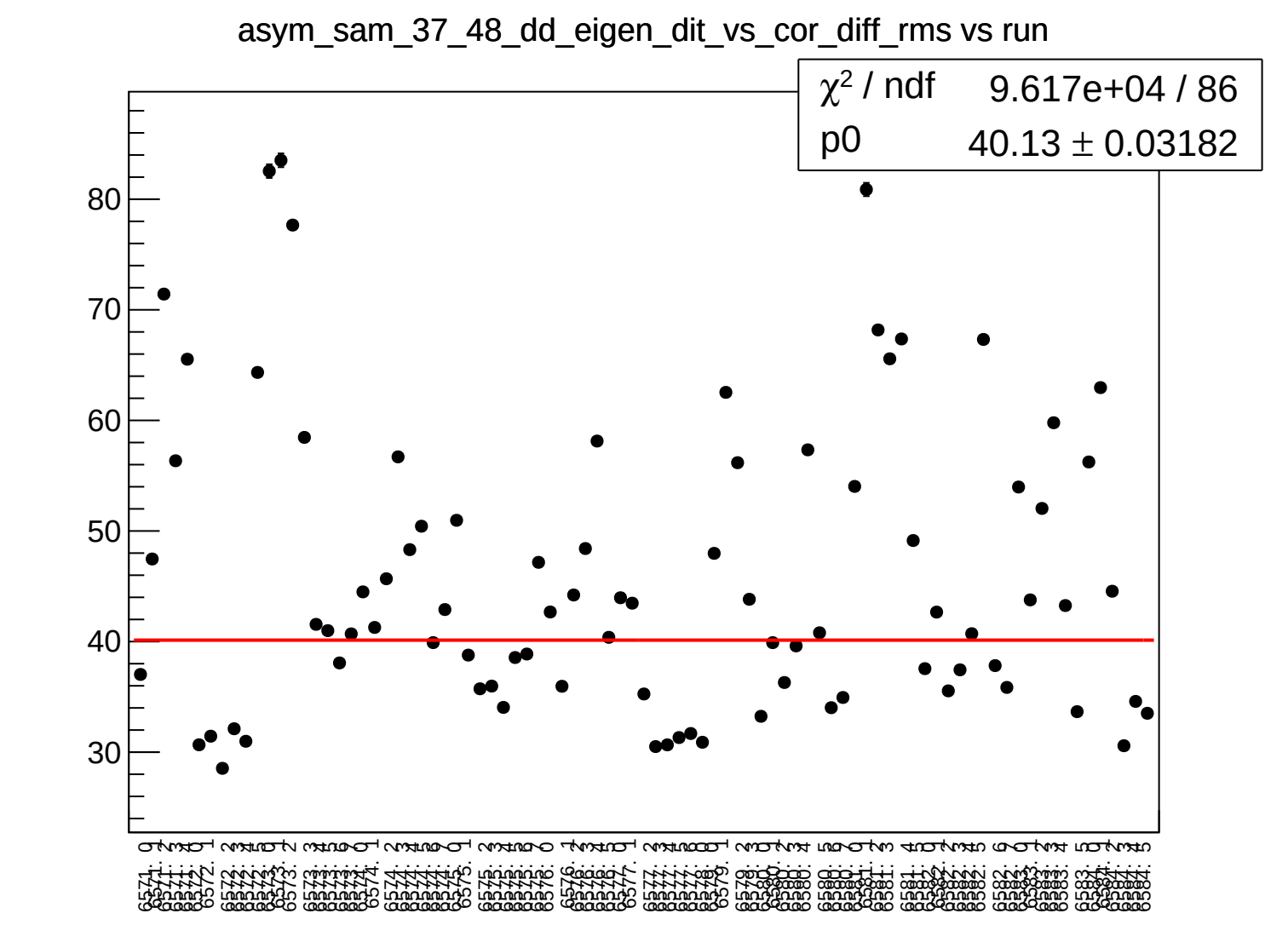

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.617e+04 / 86
p0 40.13 ± 0.03182
80
70
60
50
40
30

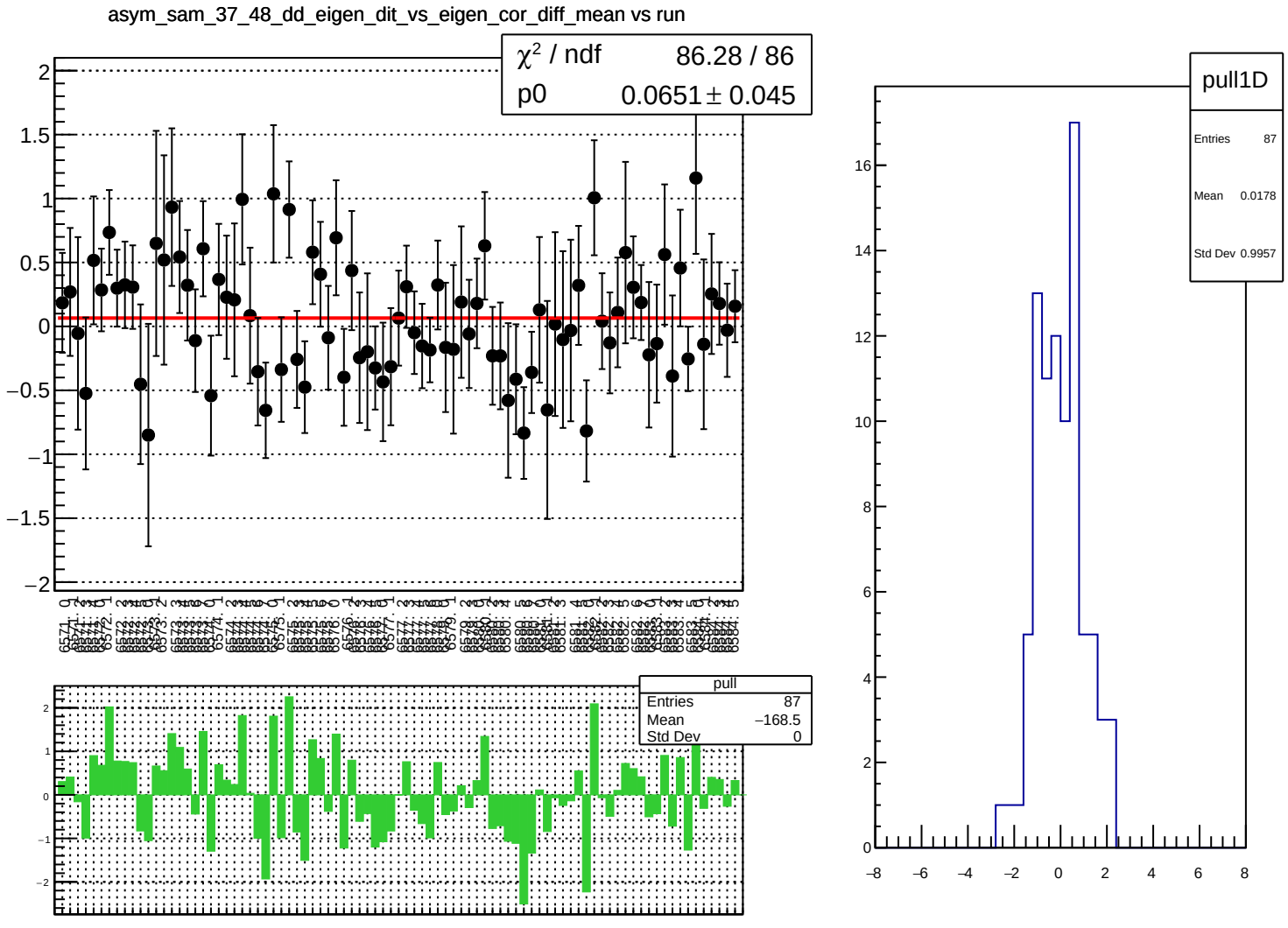

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103.6 / 86
p0 −2.987e−06 ± 1.751e−06
pull
Entries 87
Mean 172.7
Std Dev 0

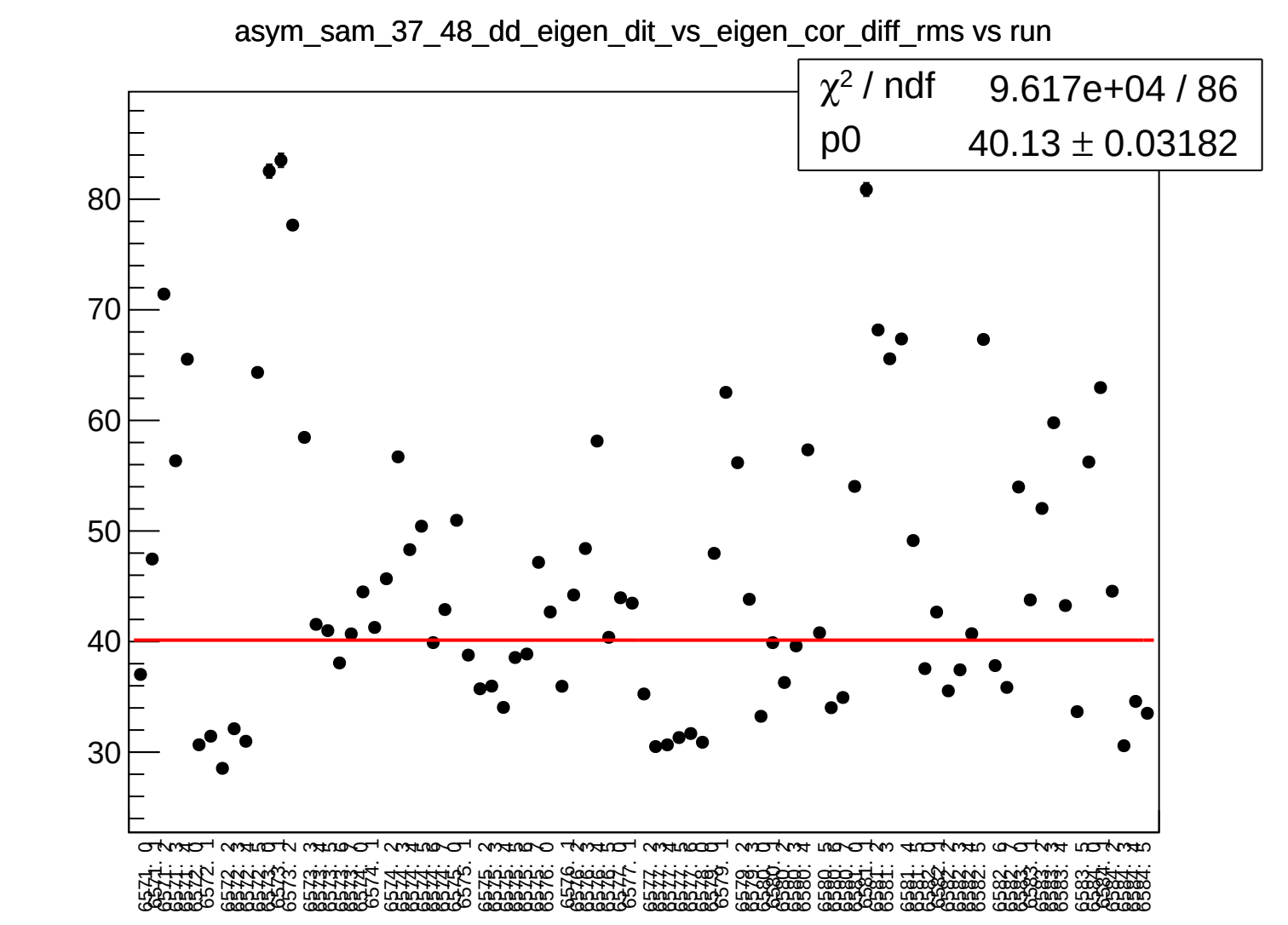

pull1D
Entries 87
Mean −0.007526
Std Dev 1.091

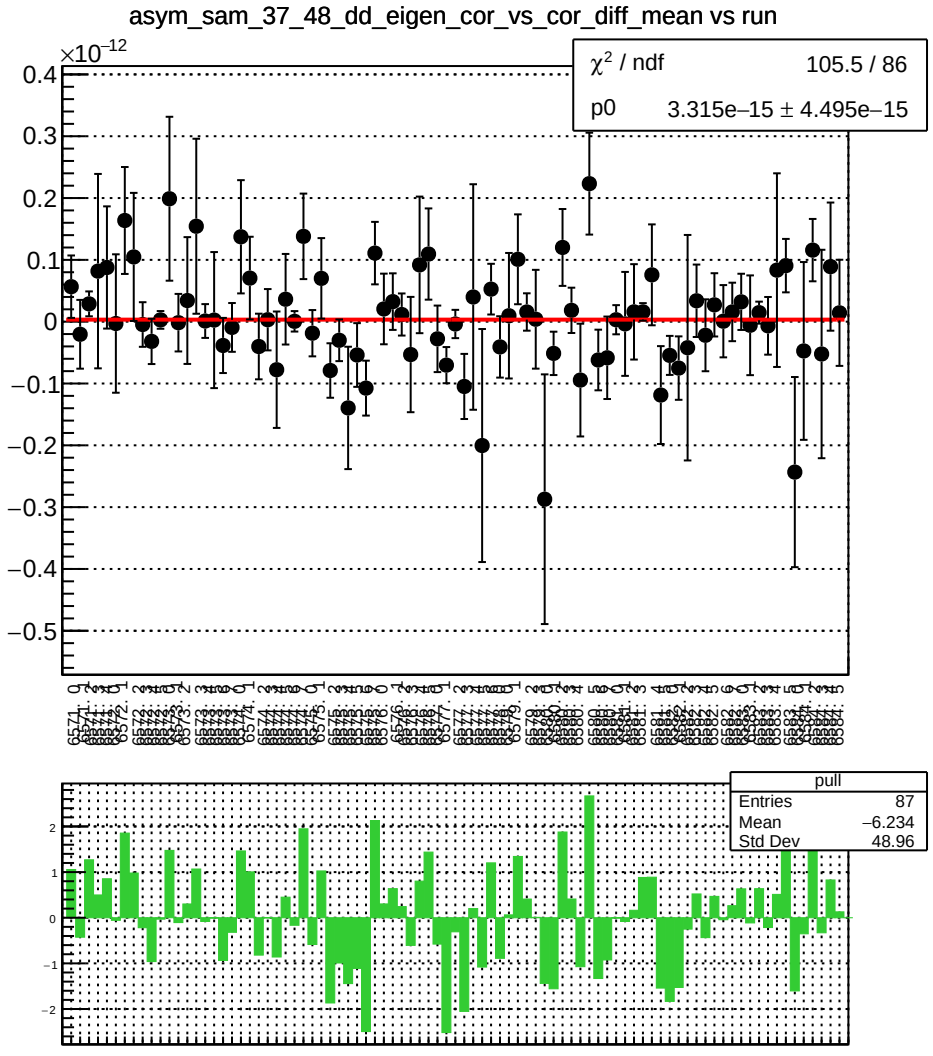

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.65e+04 / 86
p0 0.0016 ± 1.238e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

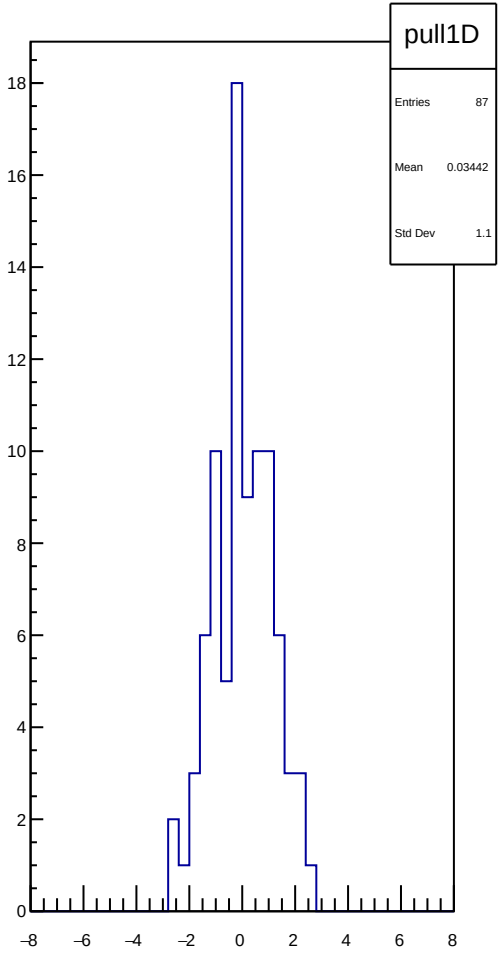

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.28 / 86
p0 0.0651 ± 0.045
pull
Entries 87
Mean −168.5
Std Dev 0
pull1D
Entries 87
Mean 0.0178
Std Dev 0.9957

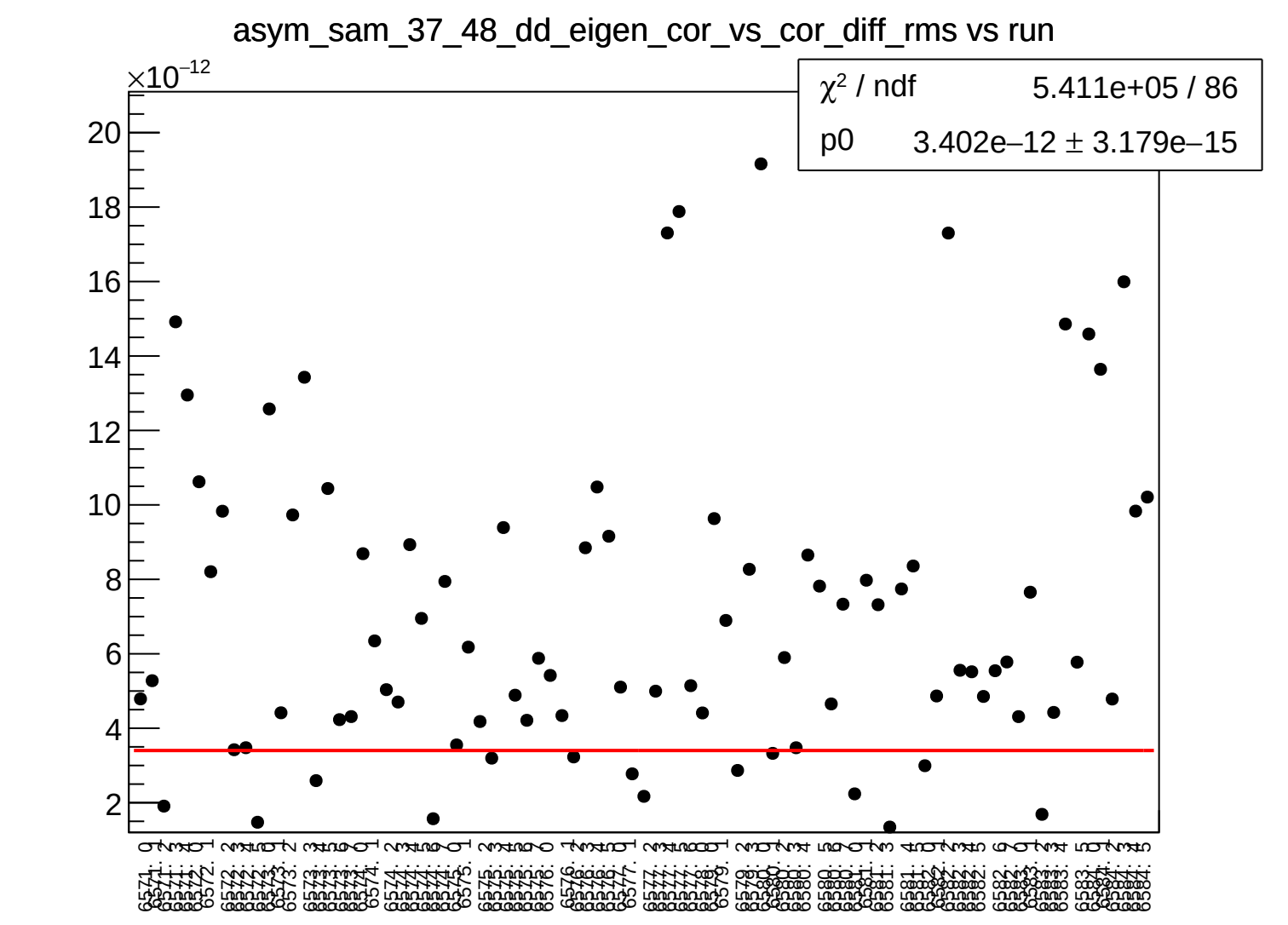

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.617e+04 / 86
p0 40.13 ± 0.03182
80
70
60
50
40
30

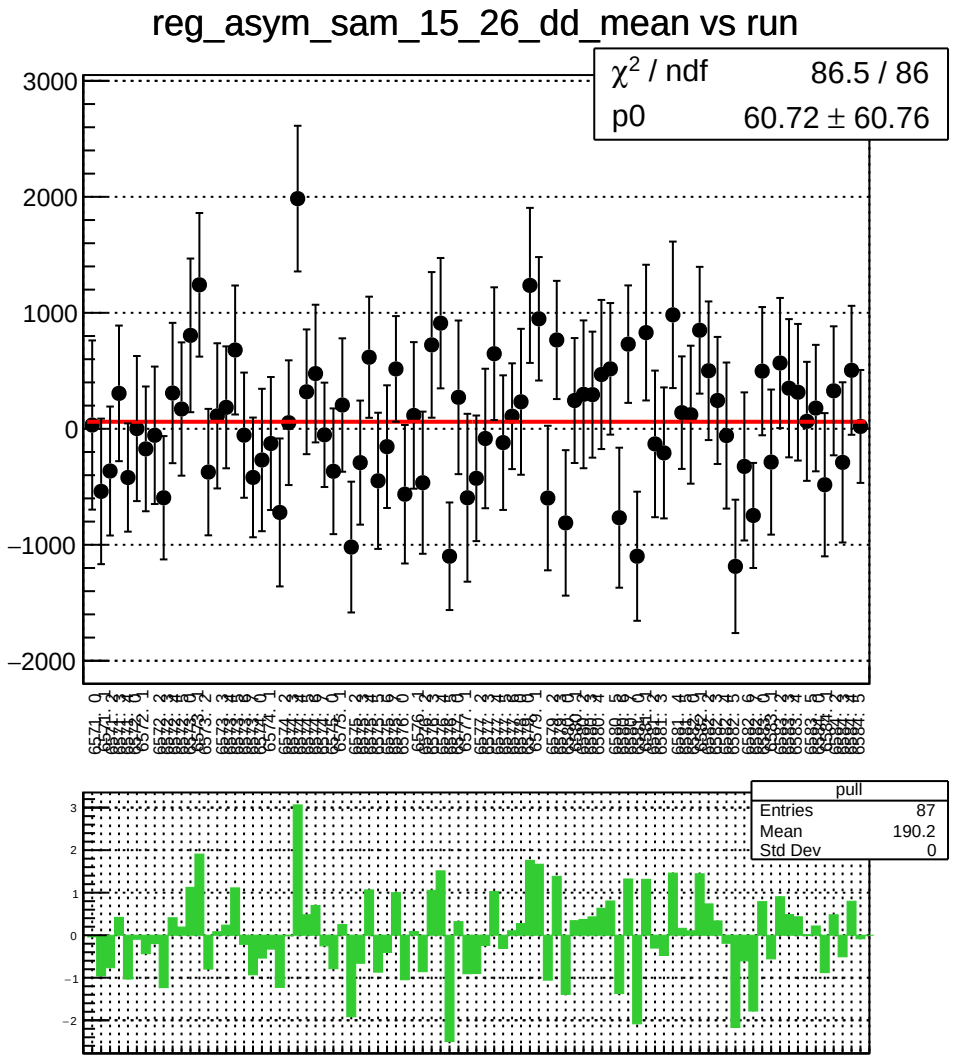

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.28 / 86
p0 0.0651 ± 0.045
pull
Entries 87
Mean −168.5
Std Dev 0
pull1D
Entries 87
Mean 0.0178
Std Dev 0.9957

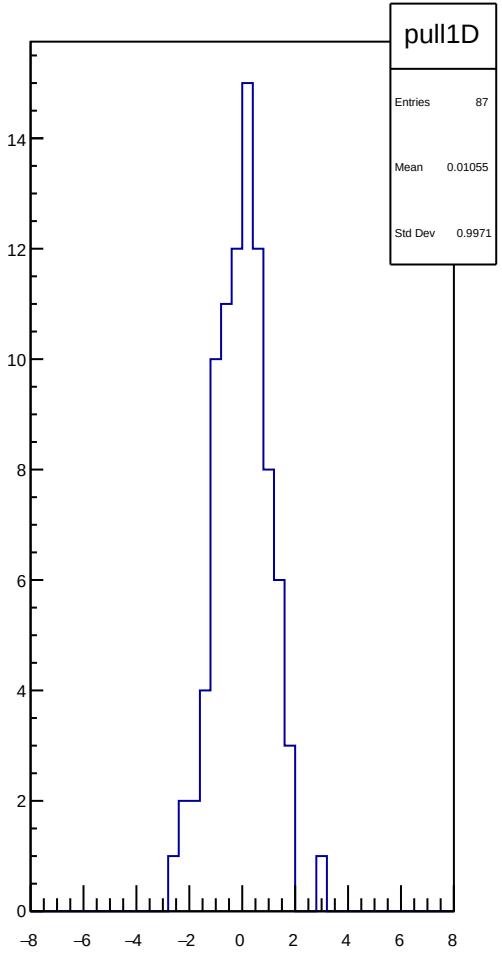

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.617e+04 / 86
p0 40.13 ± 0.03182
80
70
60
50
40
30

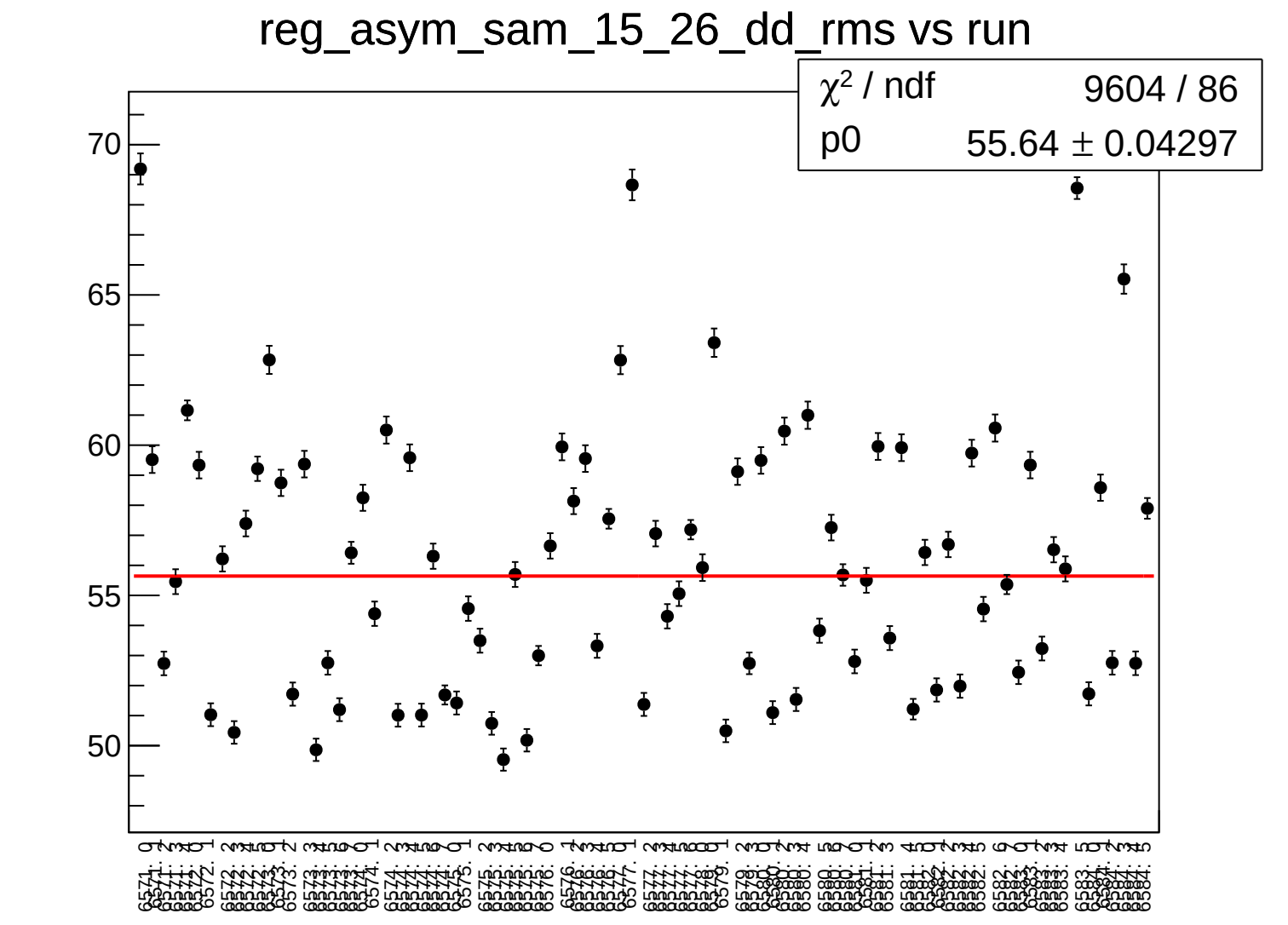

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.5 / 86
p0 3.315e−15 ± 4.495e−15
pull
Entries 87
Mean −6.234
Std Dev 48.96

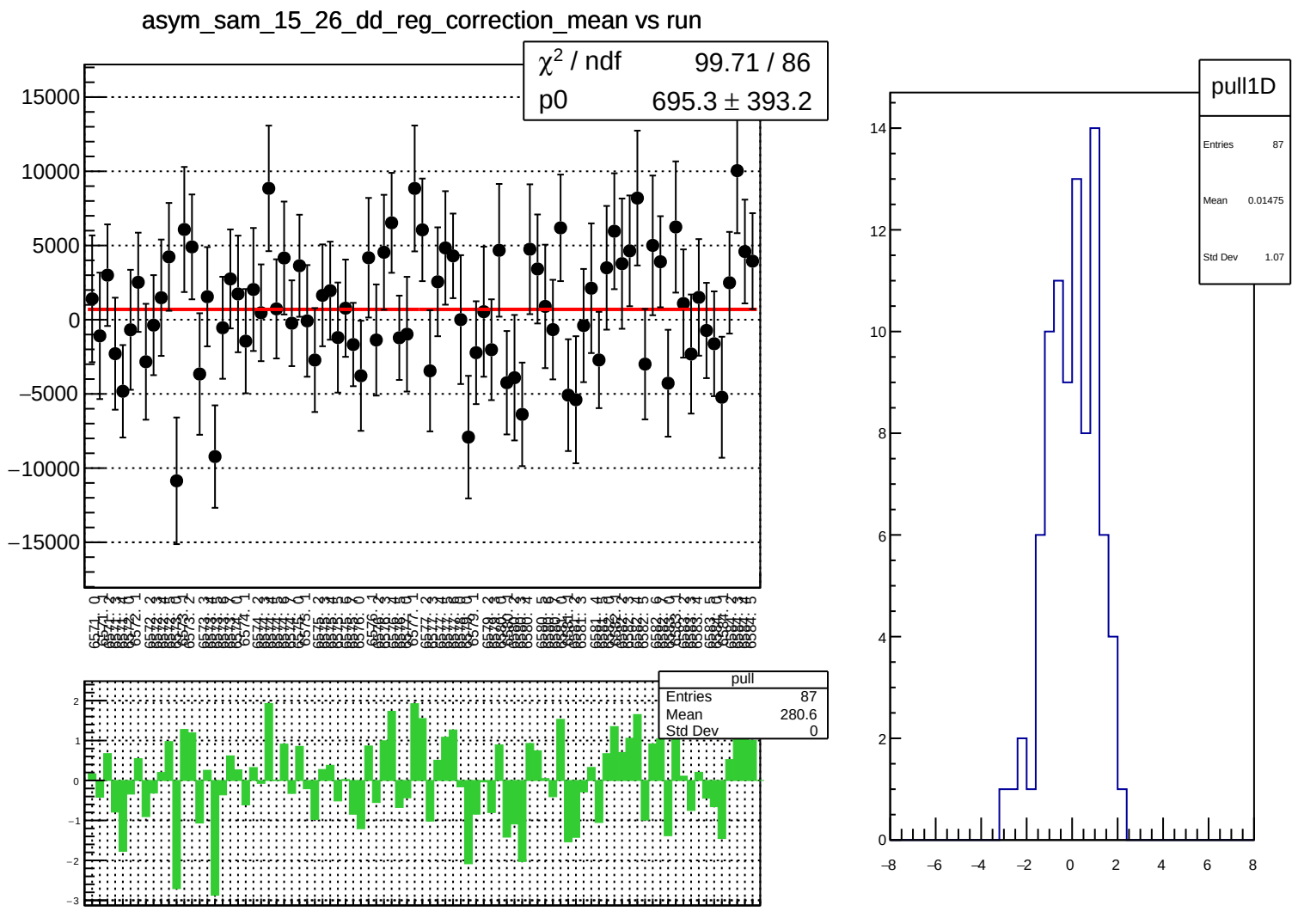

pull1D
Entries 87
Mean 0.03442
Std Dev 1.1

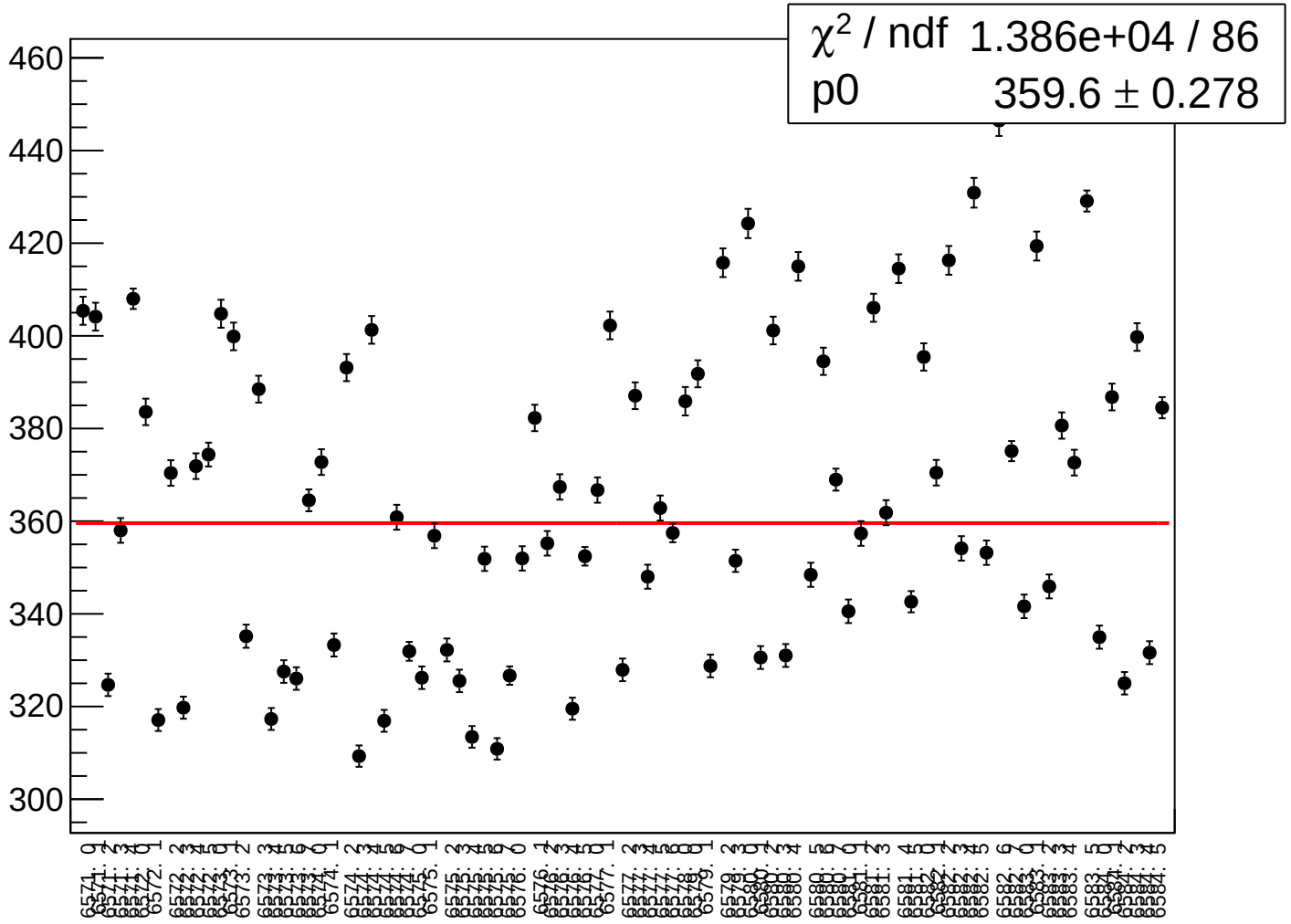

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.411e+05 / 86
p0 3.402e−12 ± 3.179e−15
20
18
16
14
12
10
8
6
4
2

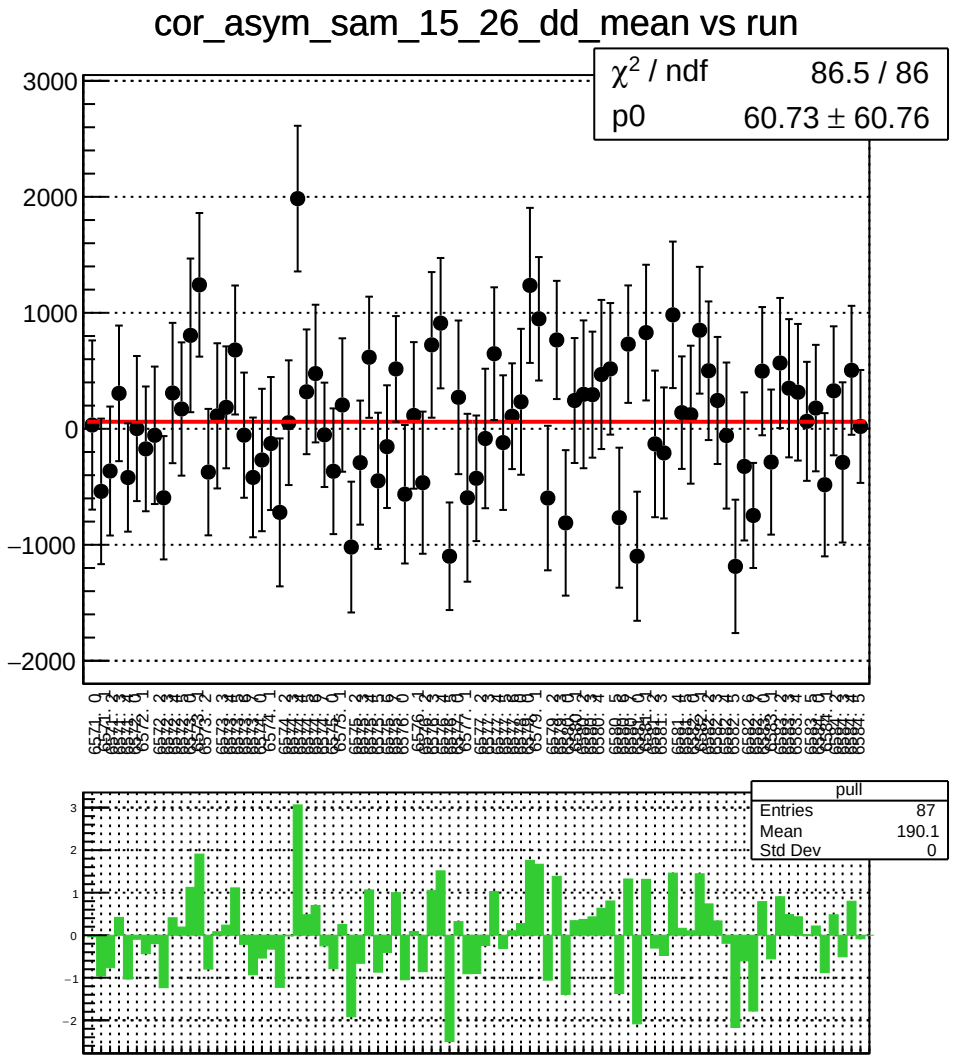

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 86.5 / 86
p0 60.72 ± 60.76
pull
Entries 87
Mean 190.2
Std Dev 0

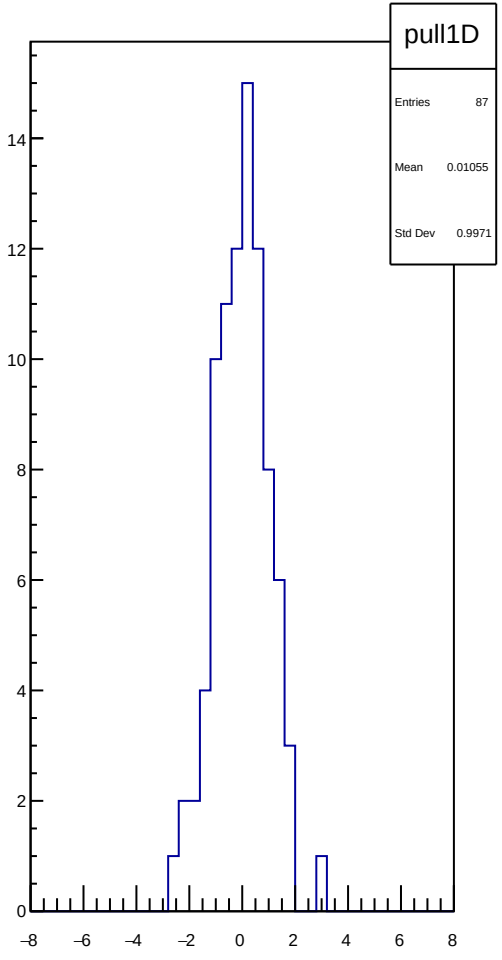

pull1D
Entries 87
Mean 0.01055
Std Dev 0.9971

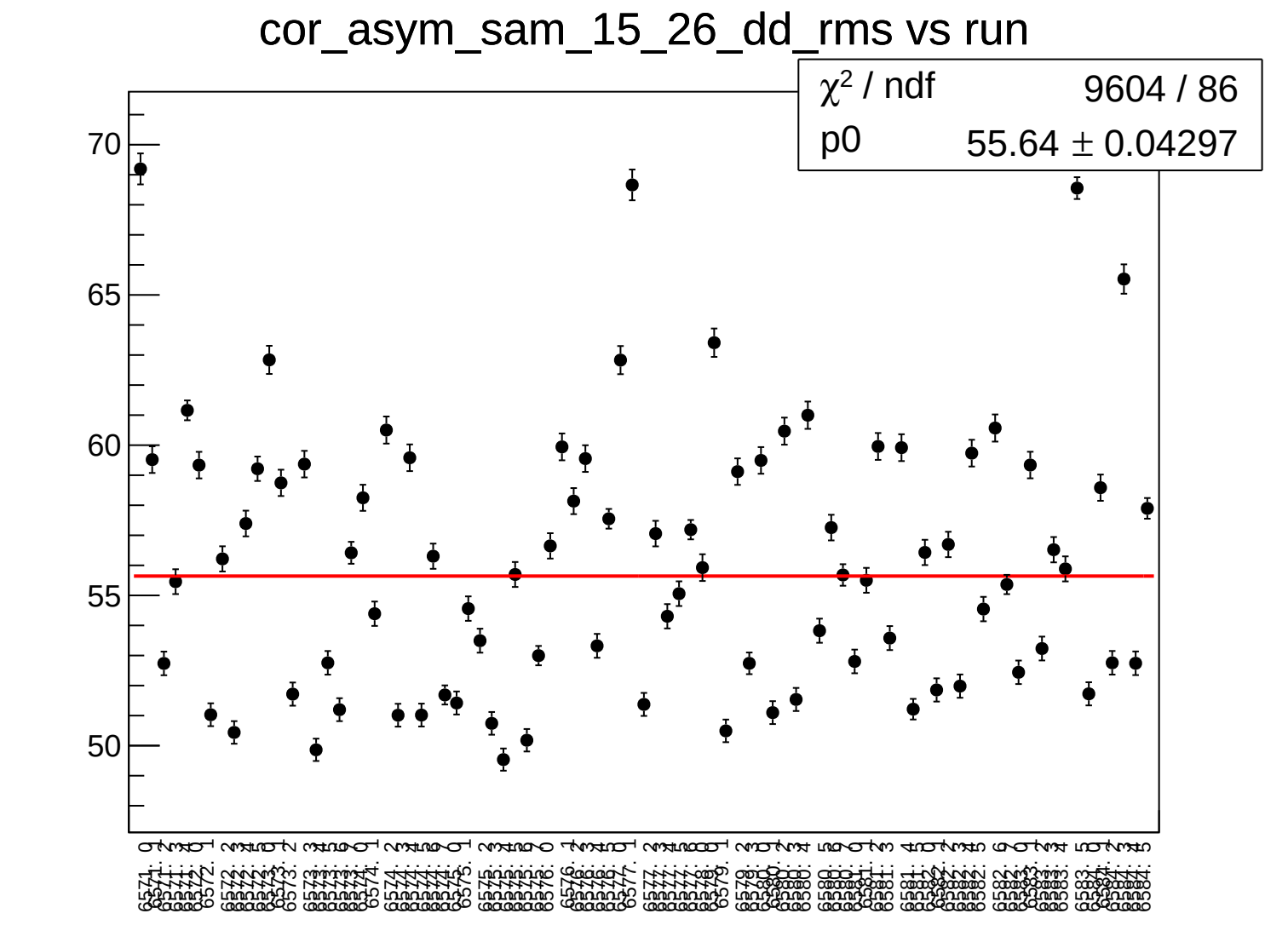

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 9604 / 86
p0 55.64 ± 0.04297
70
65
60
55
50

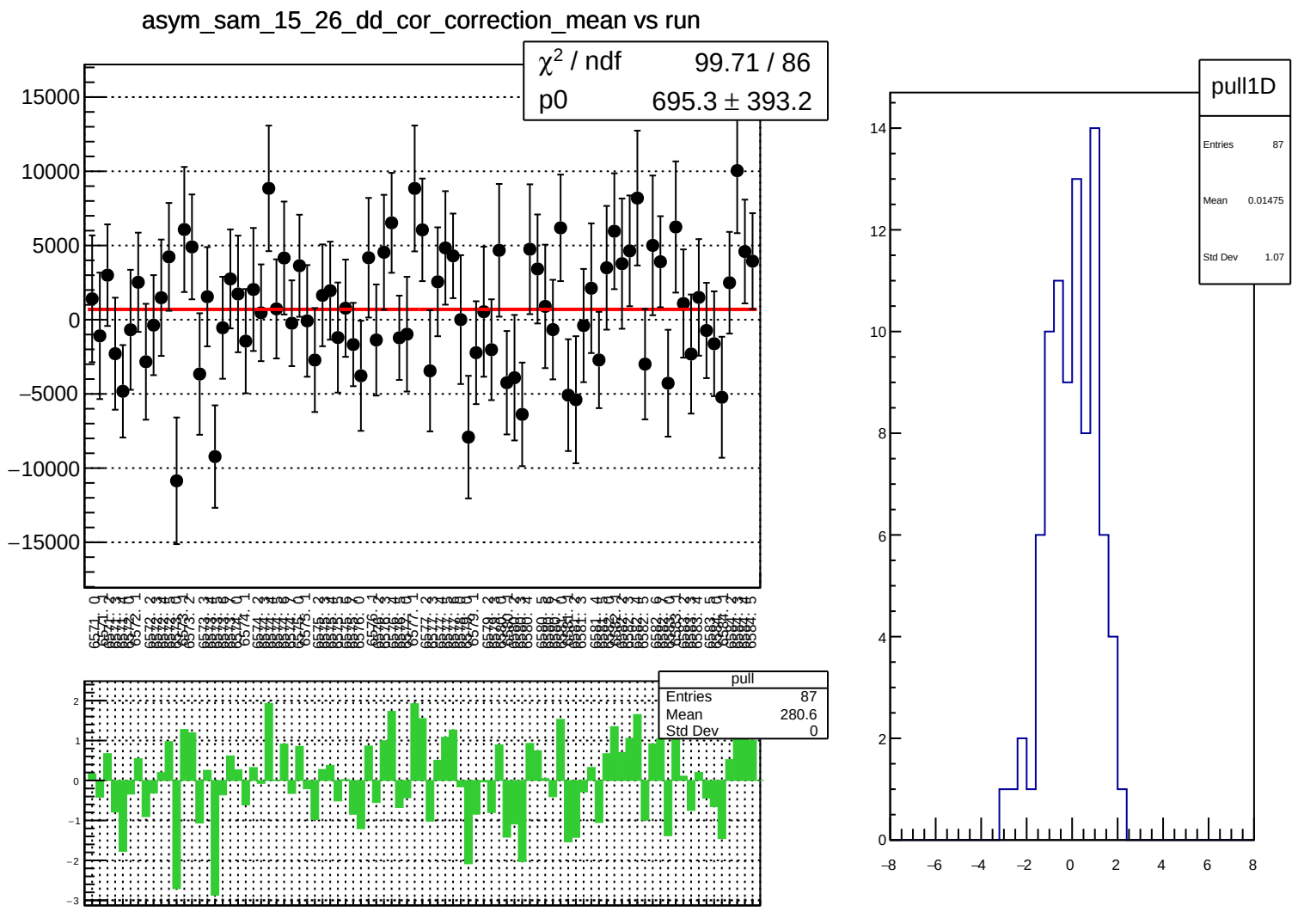

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 99.71 / 86
p0 695.3 ± 393.2
pull
Entries 87
Mean 280.6
Std Dev 0
pull1D
Entries 87
Mean 0.01475
Std Dev 1.07

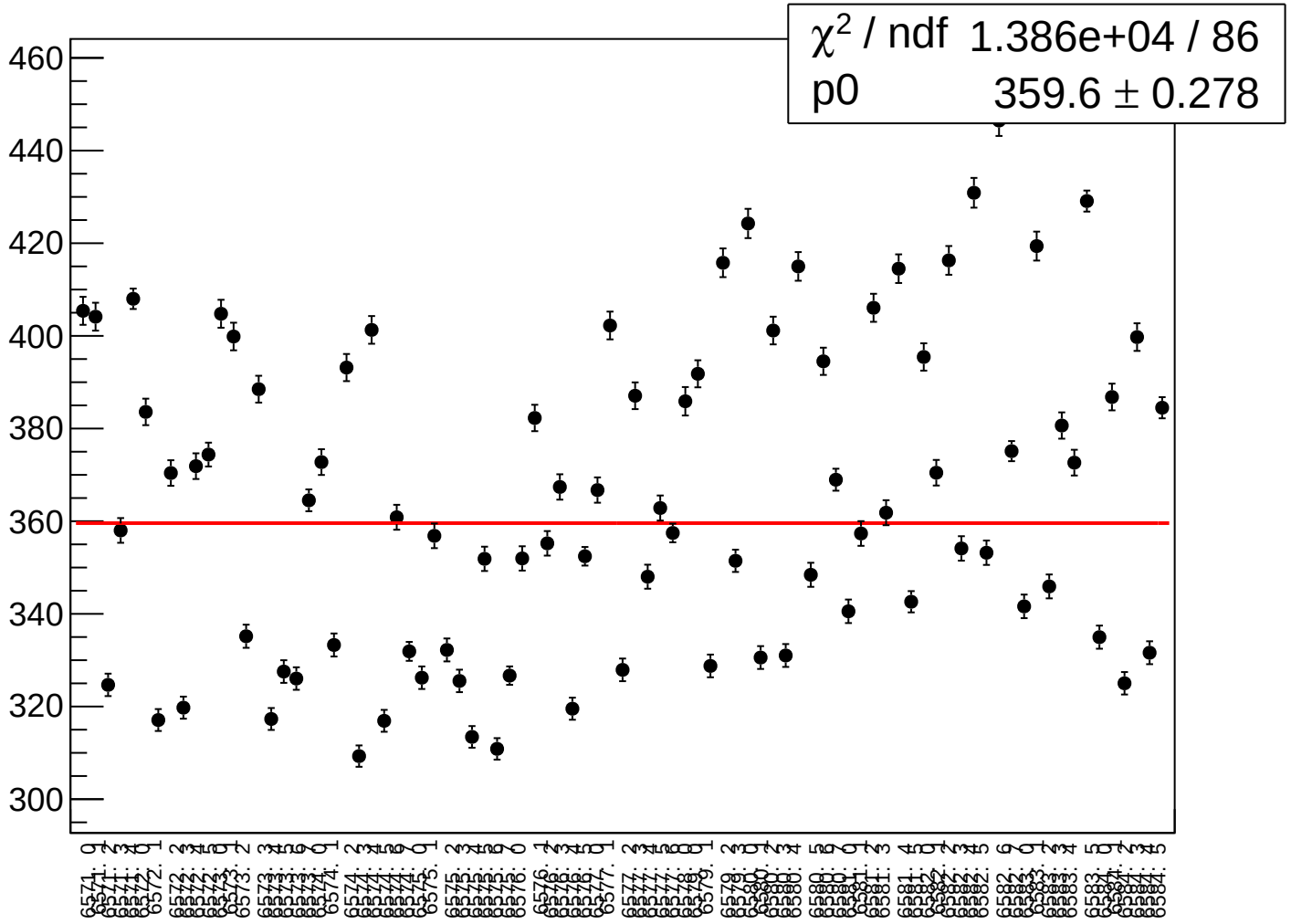

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.386e+04 / 86
p0 359.6 ± 0.278
460
440
420
400
380
360
340
320
300

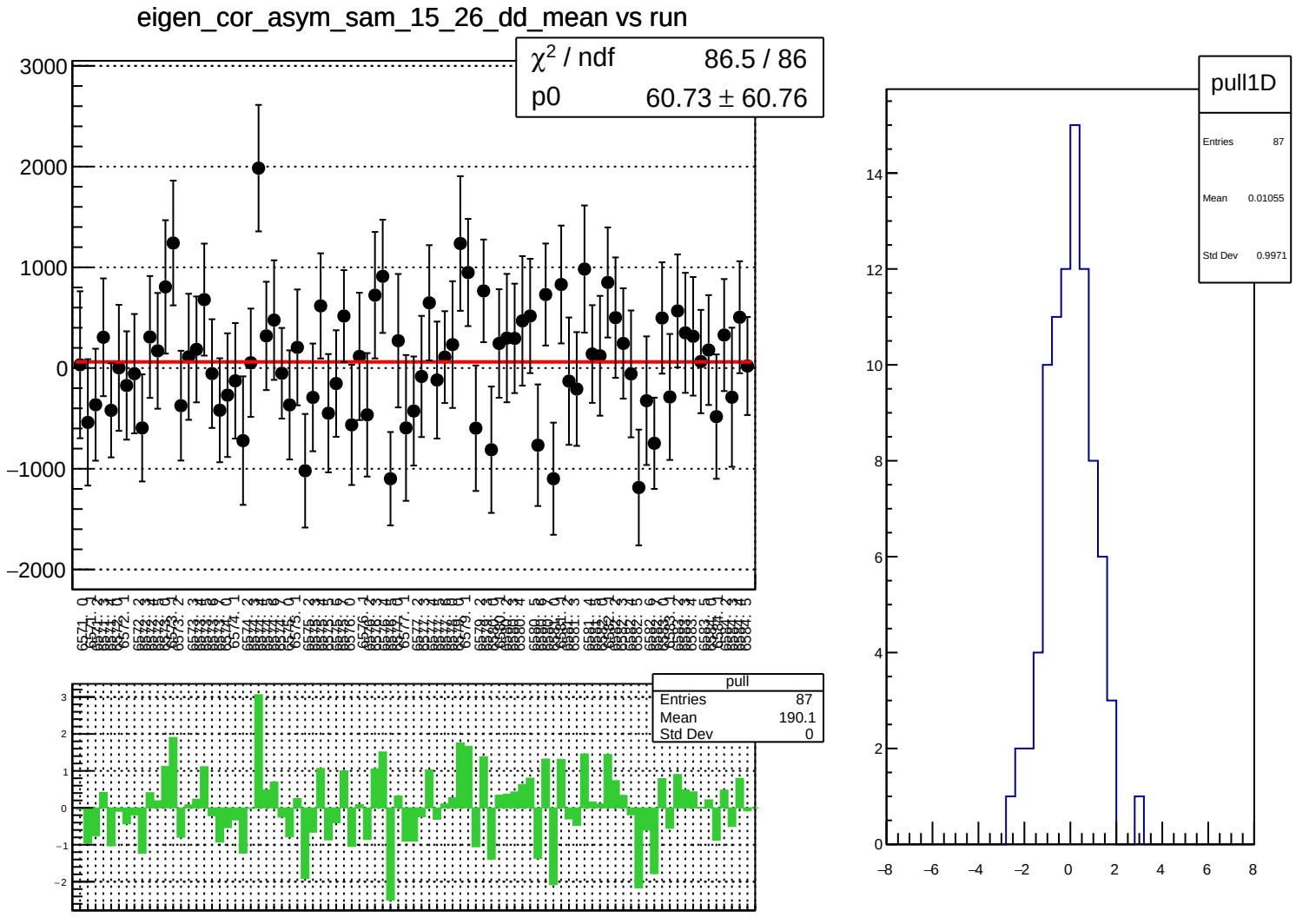

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 86.5 / 86
p0 60.73 ± 60.76
pull
Entries 87
Mean 190.1
Std Dev 0

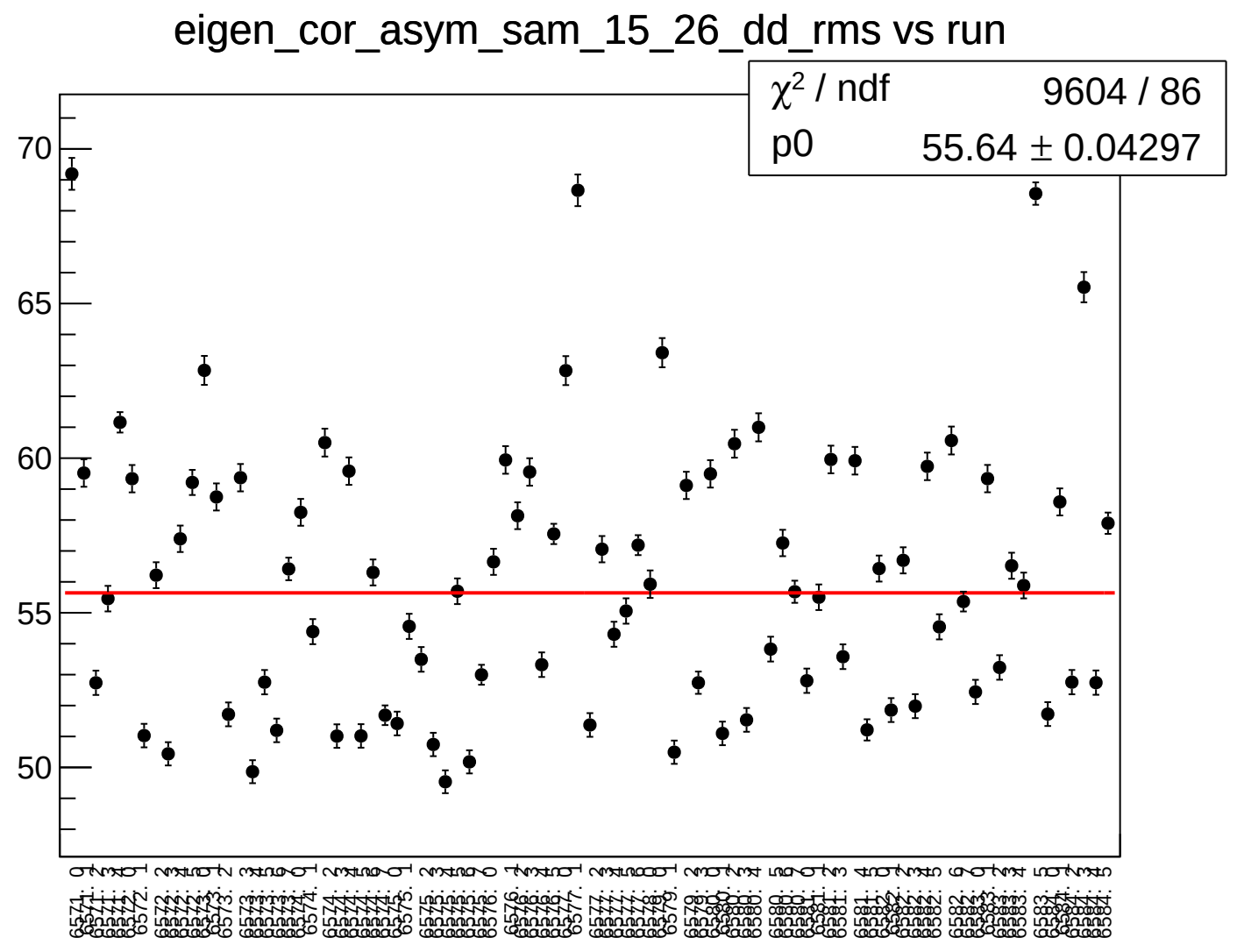

pull1D
Entries 87
Mean 0.01055
Std Dev 0.9971

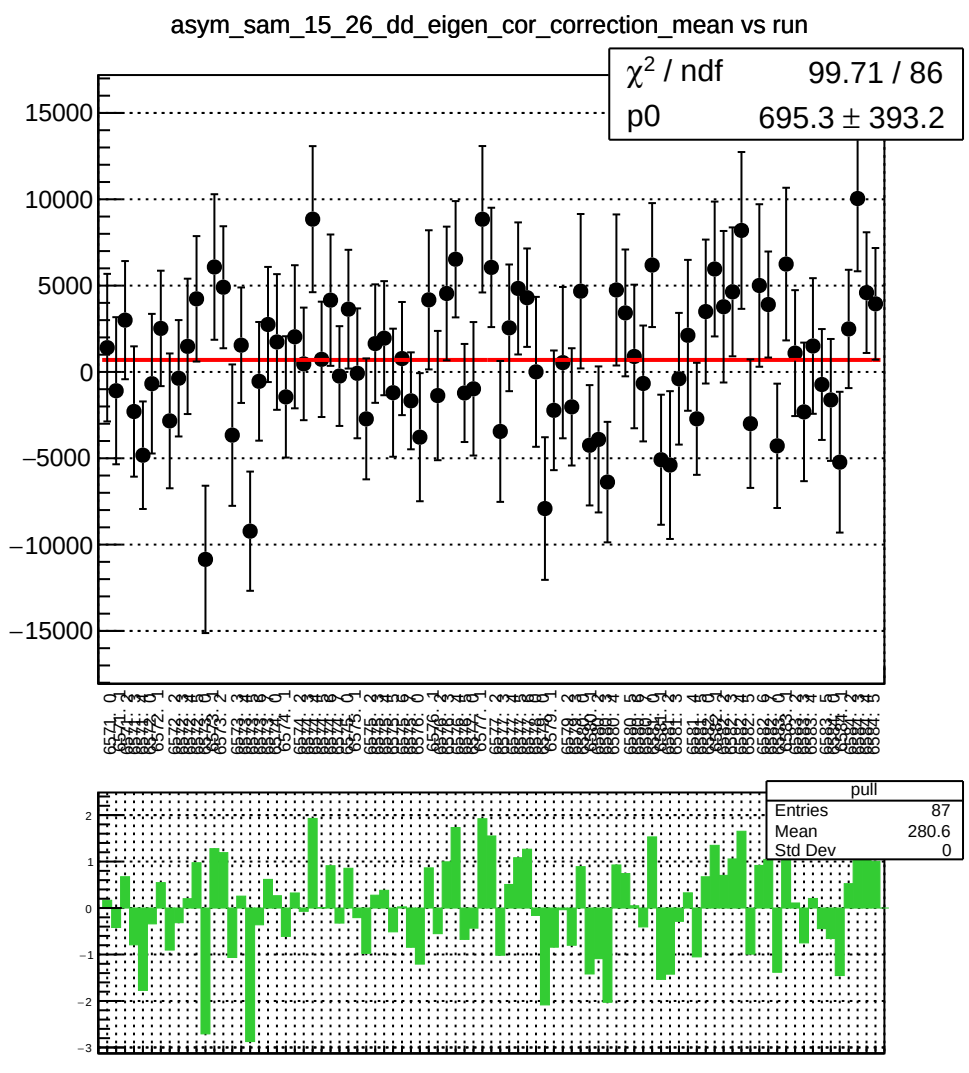

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 9604 / 86
p0 55.64 ± 0.04297
70
65
60
55
50

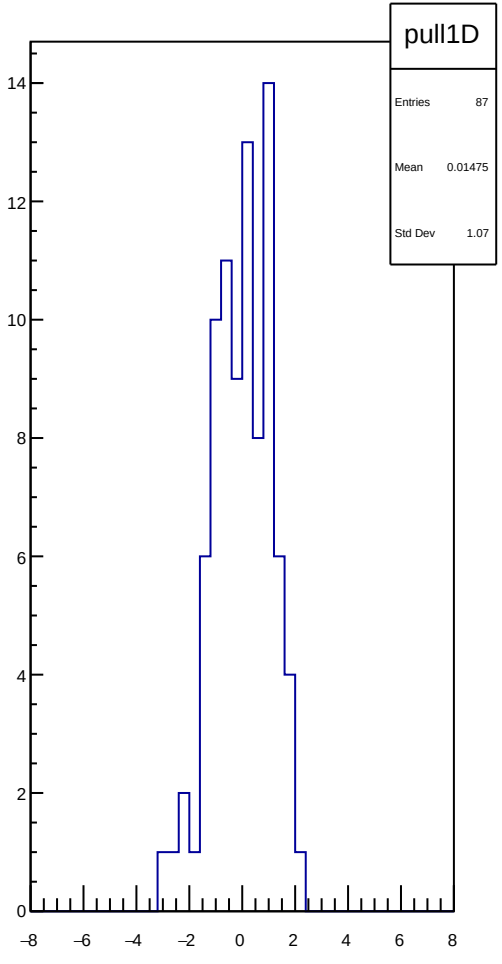

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 99.71 / 86
p0 695.3 ± 393.2
pull
Entries 87
Mean 280.6
Std Dev 0
pull1D
Entries 87
Mean 0.01475
Std Dev 1.07

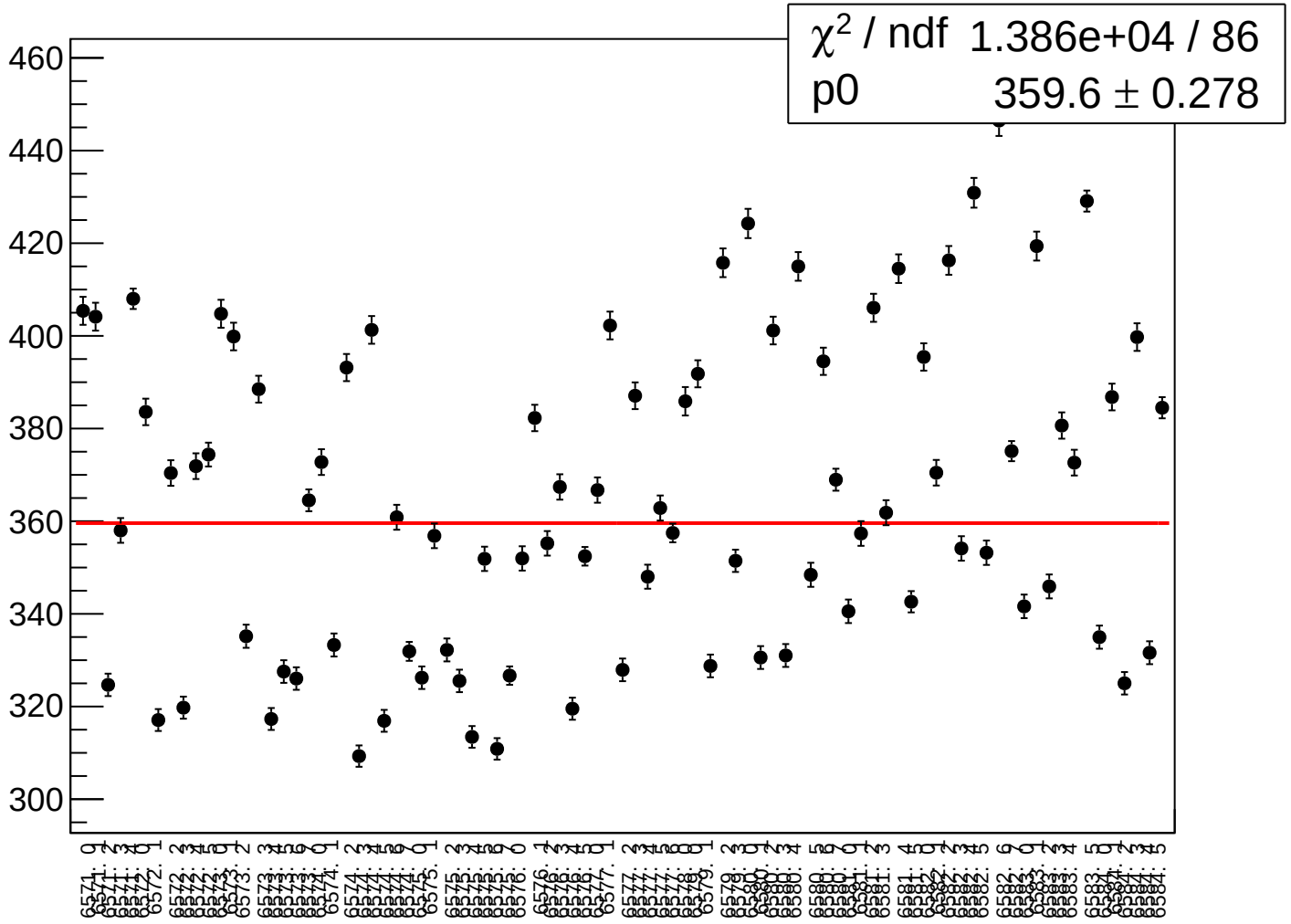

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.386e+04 / 86
p0 359.6 ± 0.278
460
440
420
400
380
360
340
320
300

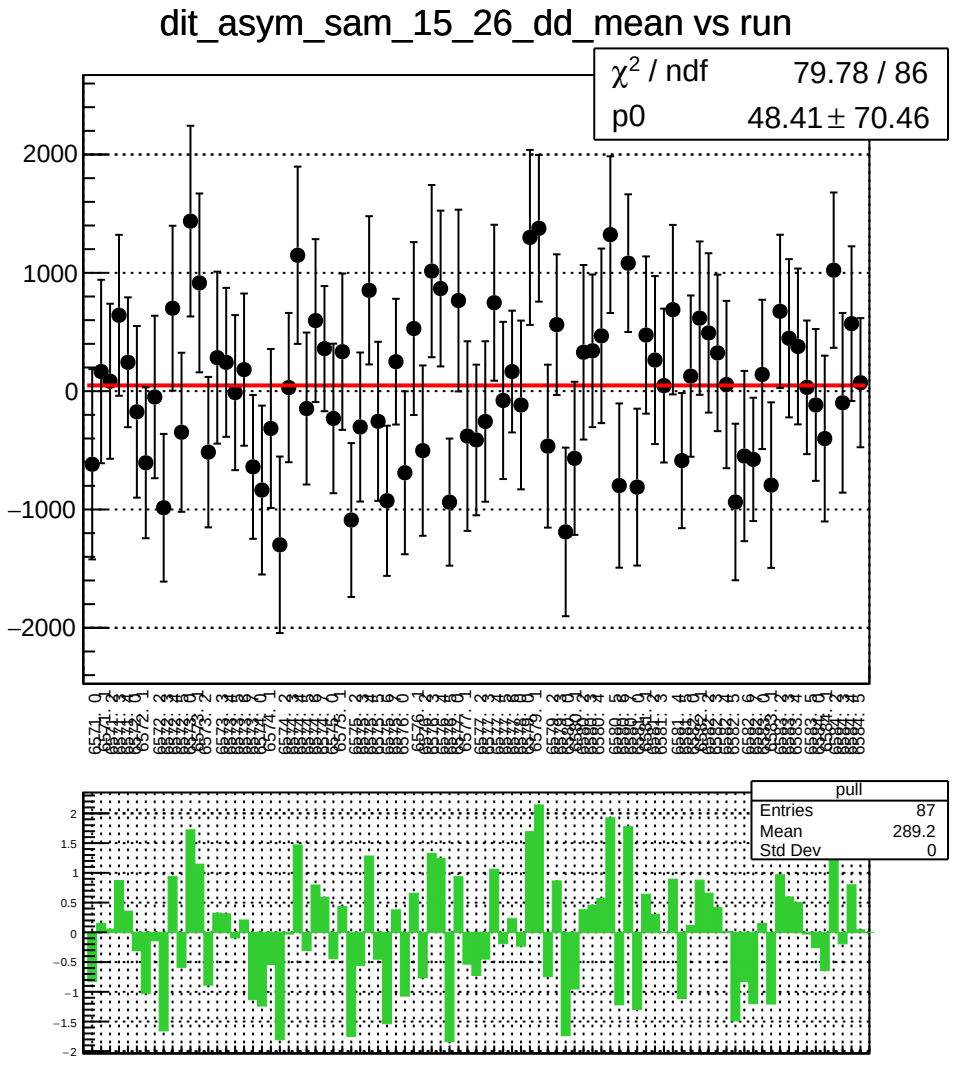

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 86.5 / 86
p0 60.73 ± 60.76
pull
Entries 87
Mean 190.1
Std Dev 0
pull1D
Entries 87
Mean 0.01055
Std Dev 0.9971

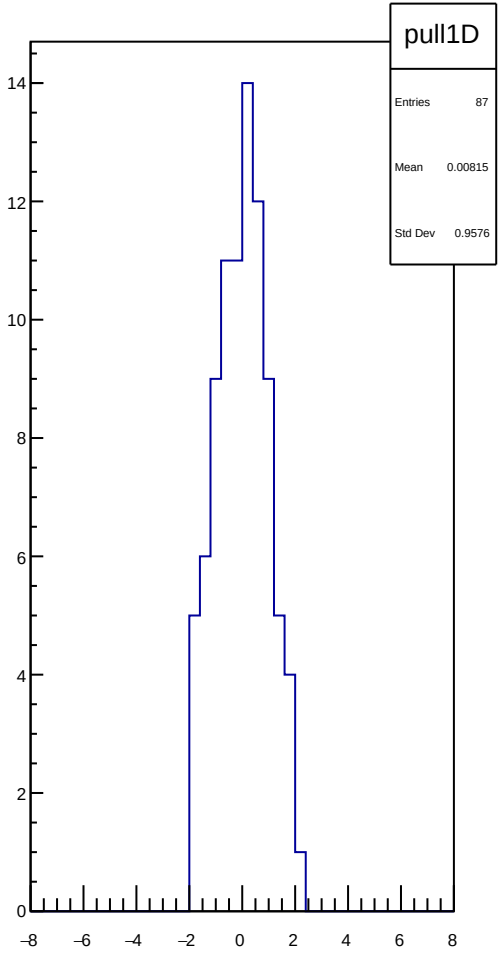

eigen_cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 9604 / 86
p0 55.64 ± 0.04297
70
65
60
55
50

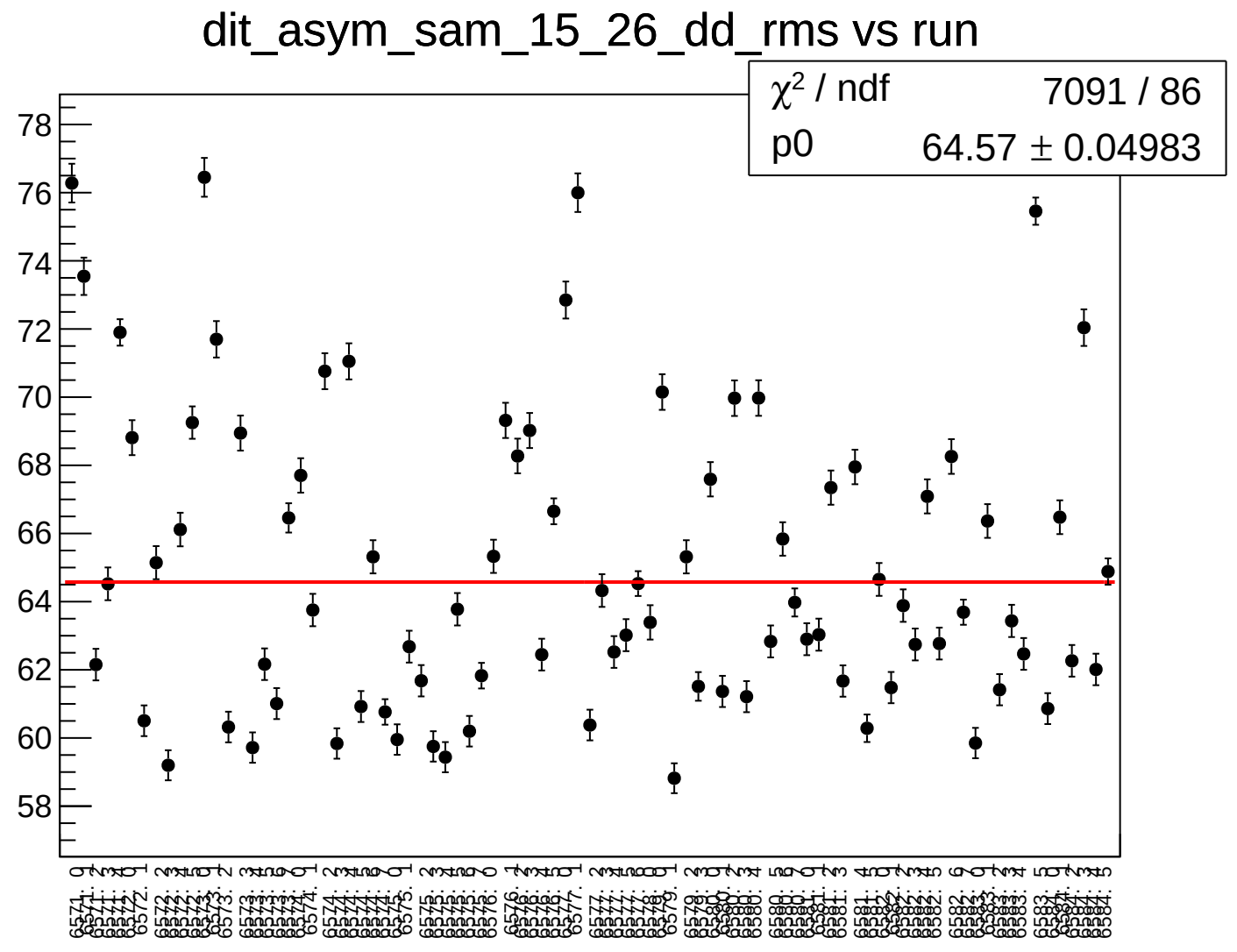

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.71 / 86
p0 695.3 ± 393.2
pull
Entries 87
Mean 280.6
Std Dev 0

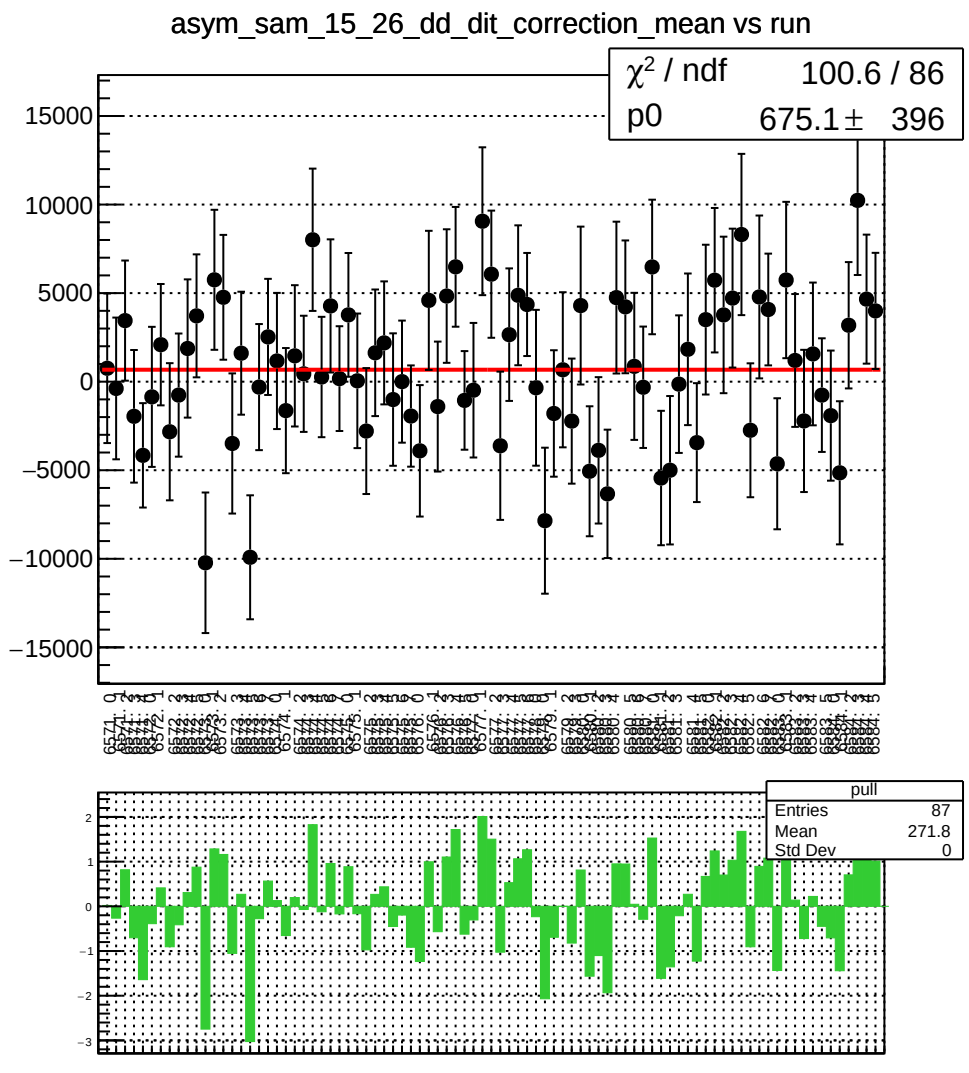

pull1D
Entries 87
Mean 0.01475
Std Dev 1.07

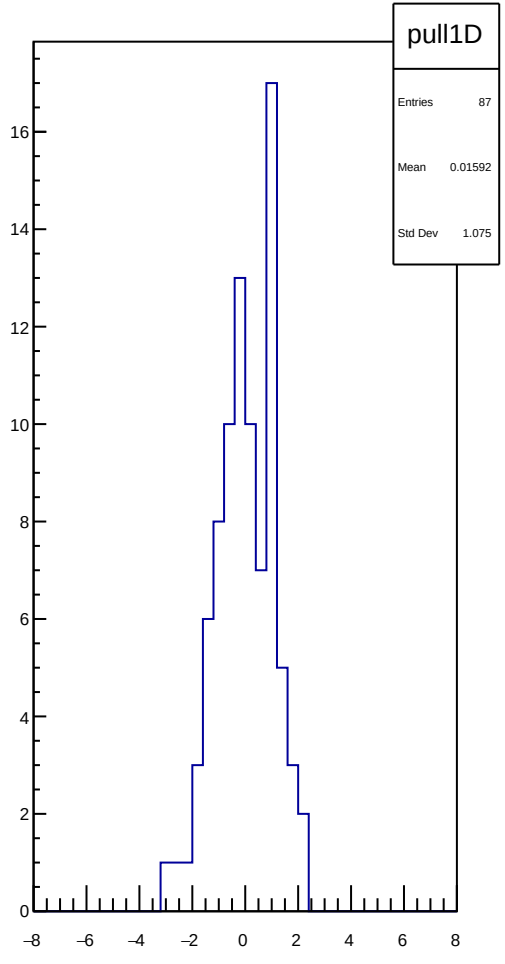

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.386e+04 / 86
p0 359.6 ± 0.278
460
440
420
400
380
360
340
320
300

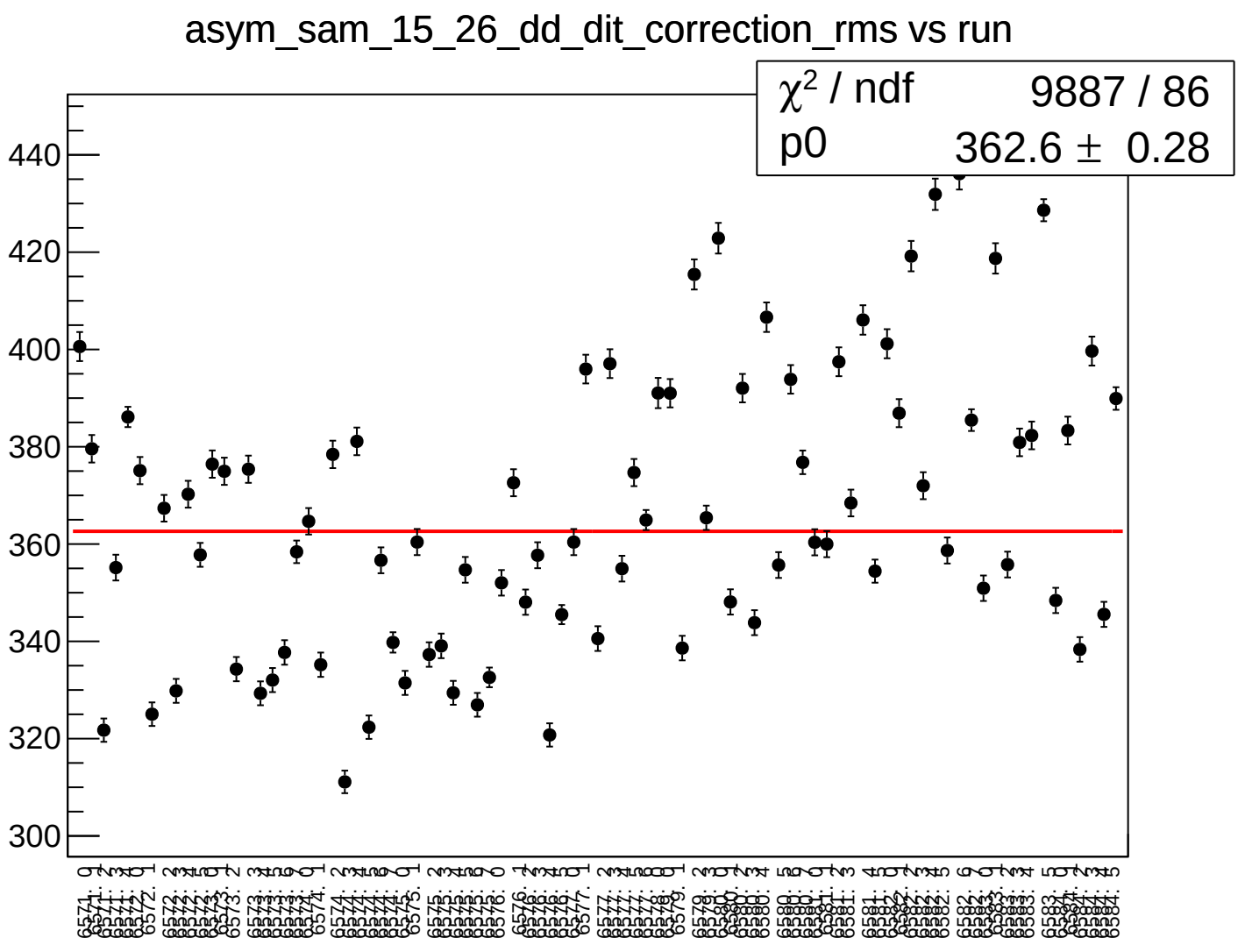

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 79.78 / 86
p0 48.41 ± 70.46
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 289.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

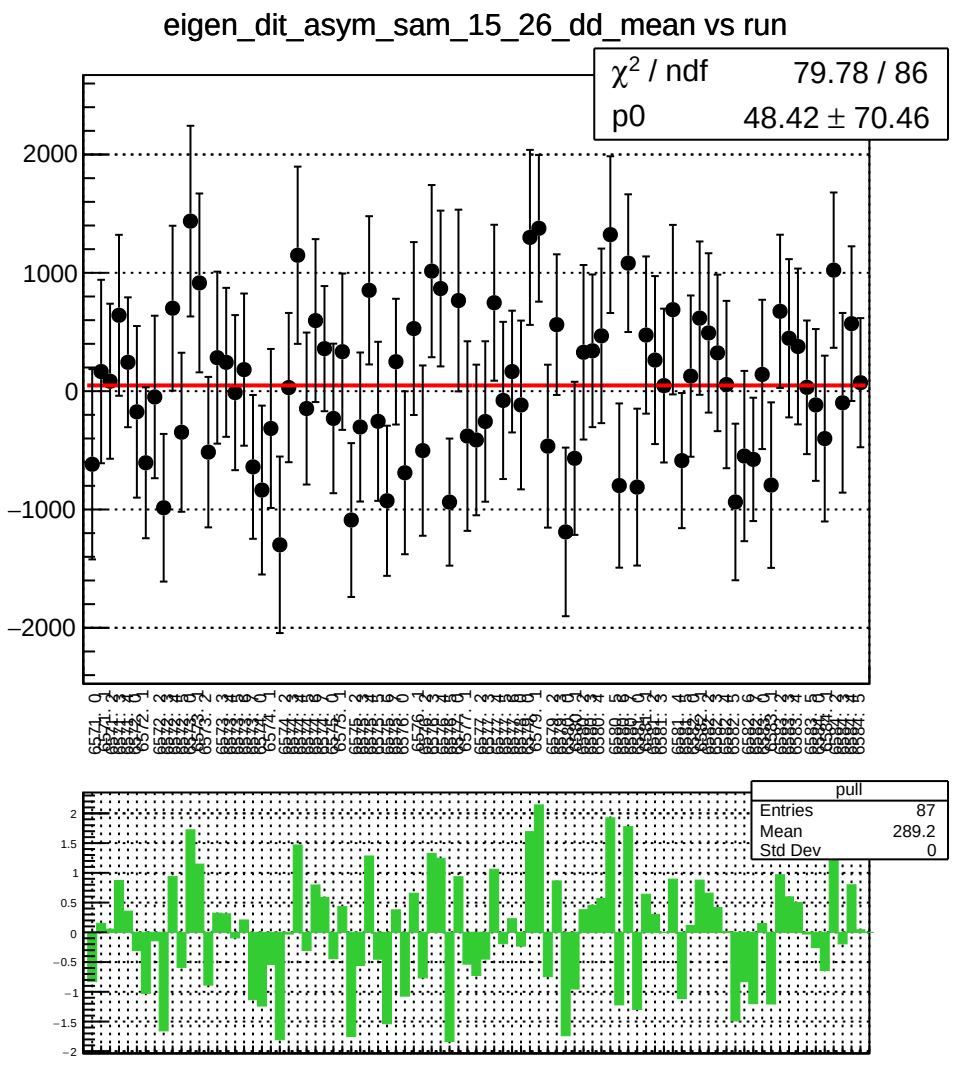

pull1D
Entries 87
Mean 0.00815
Std Dev 0.9576
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

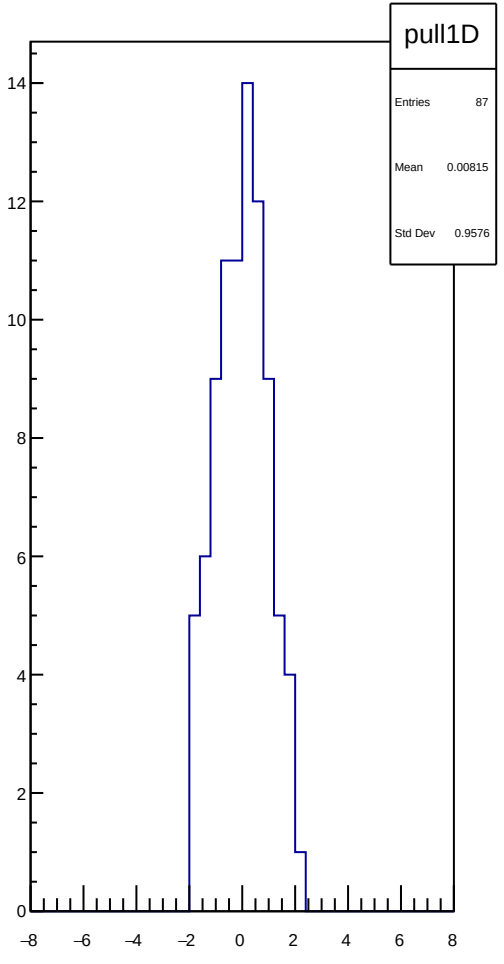

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 7091 / 86
p0 64.57 ± 0.04983
78
76
74
72
70
68
66
64
62
60
58

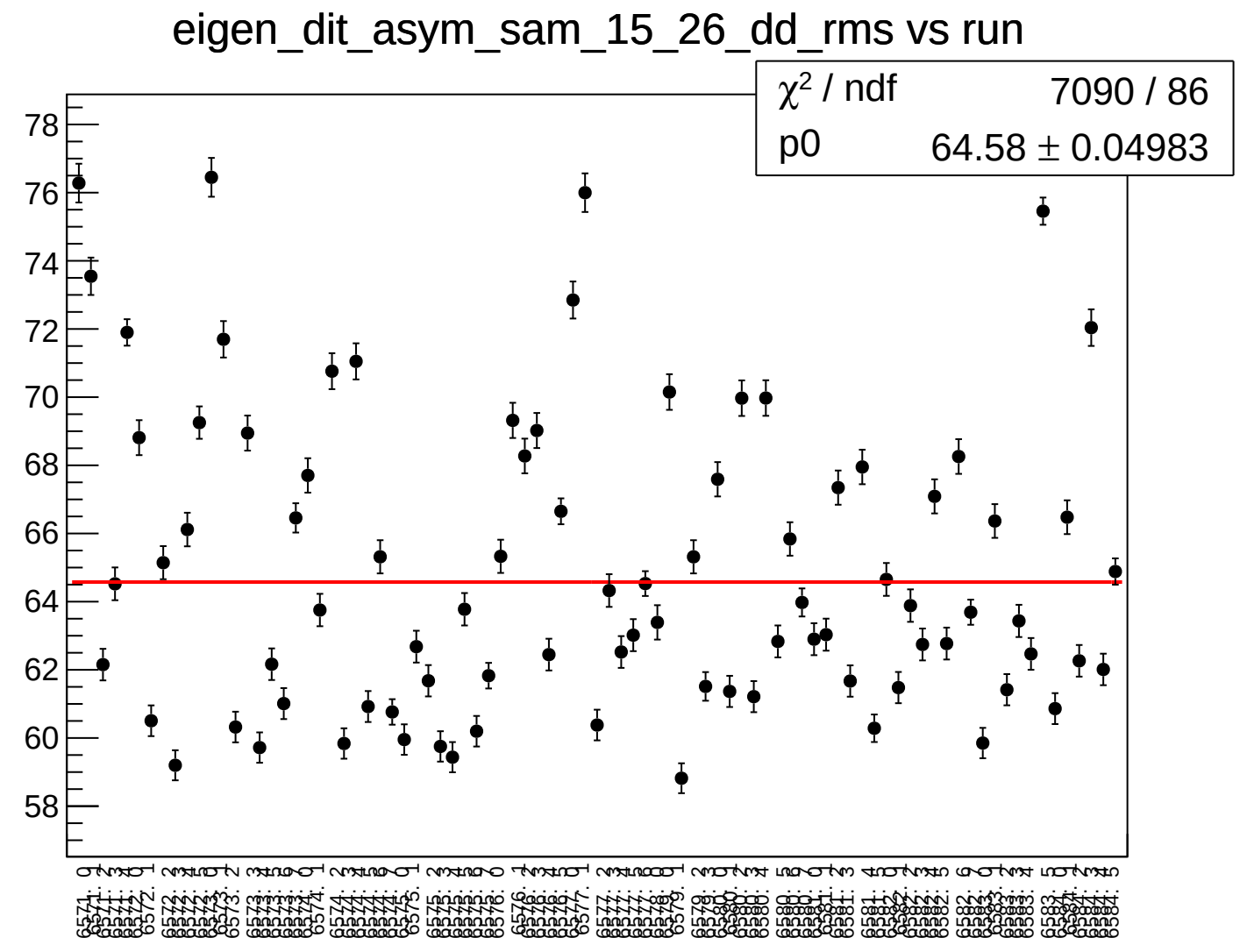

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 100.6 / 86
p0 675.1 ± 396
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 271.8
Std Dev 0
2
1
0
−1
−2
−3

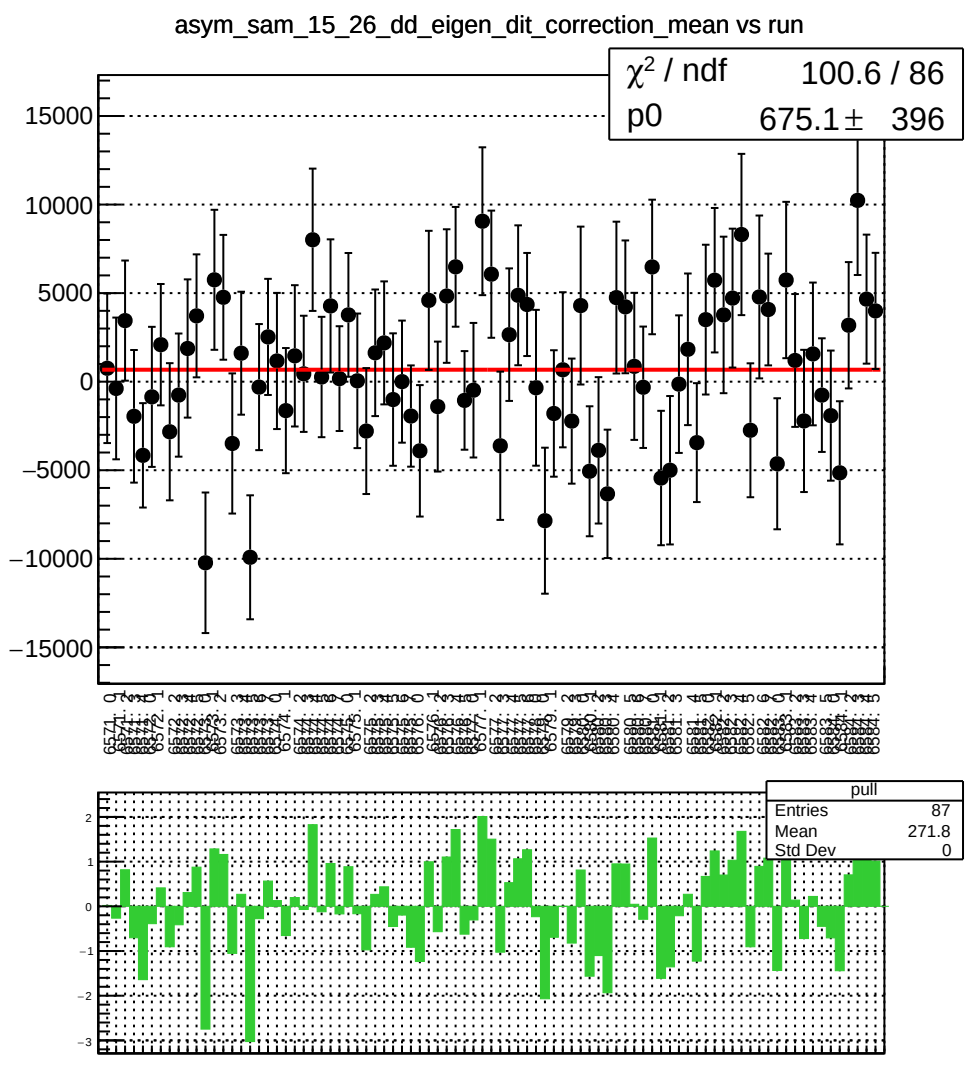

pull1D
Entries 87
Mean 0.01592
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

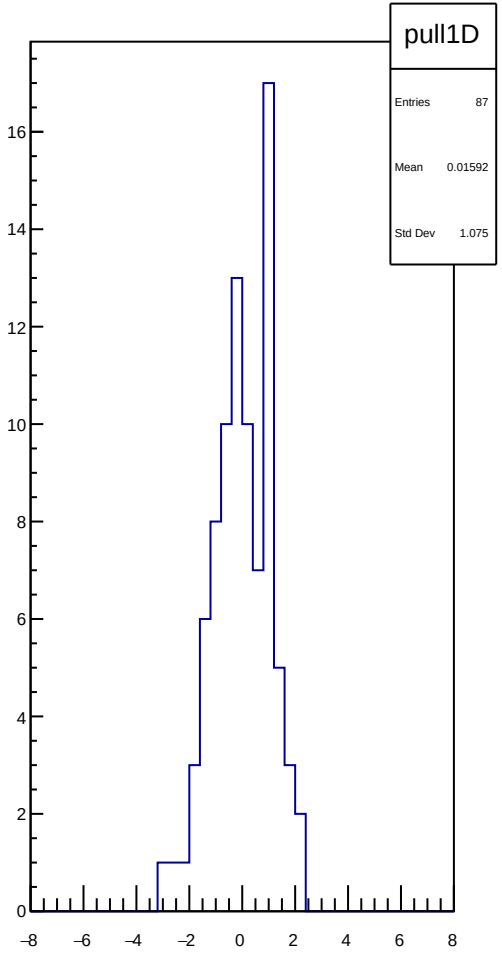

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 9887 / 86
p0 362.6 ± 0.28
440
420
400
380
360
340
320
300

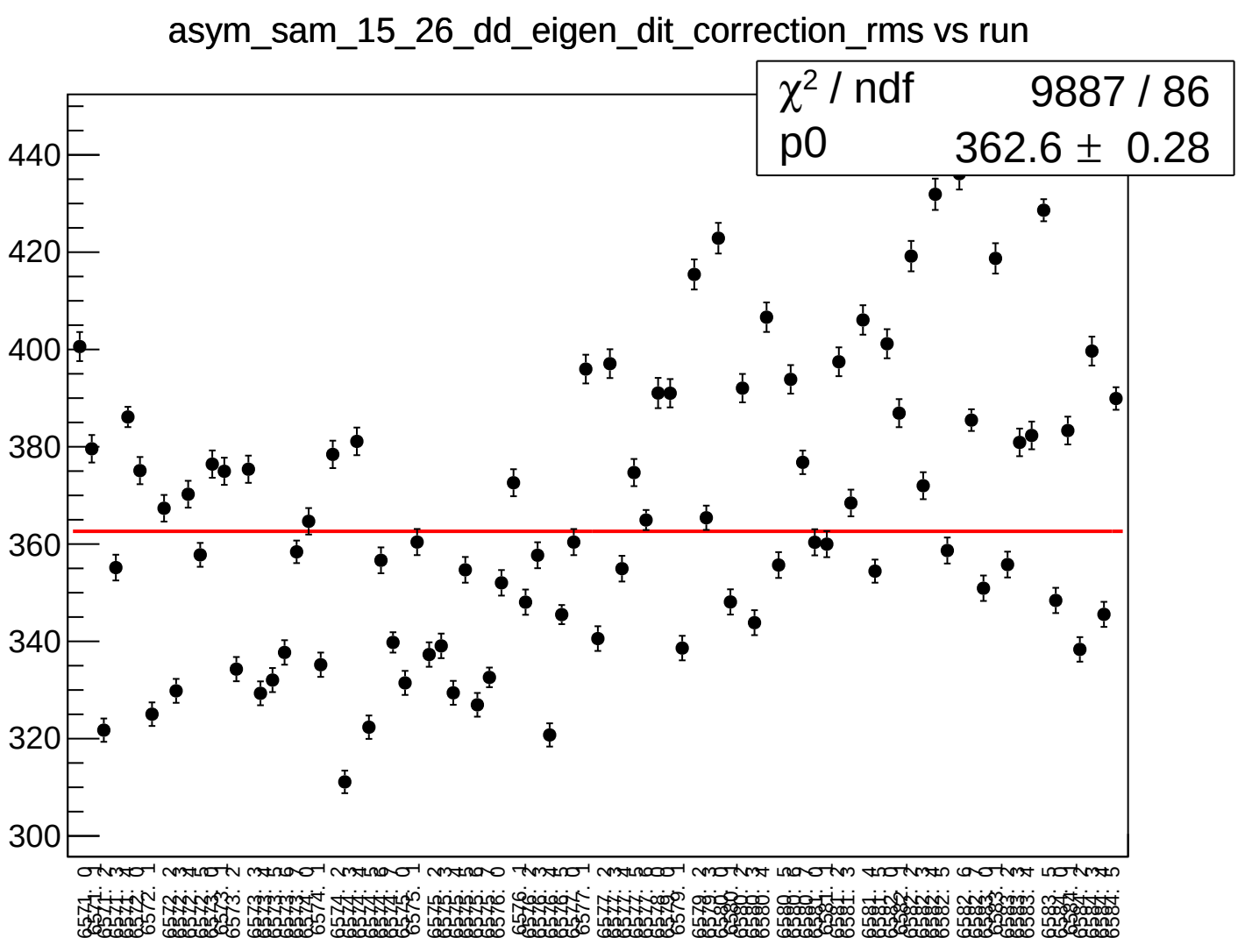

eigen_dit_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 79.78 / 86
p0 48.42 ± 70.46
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 289.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

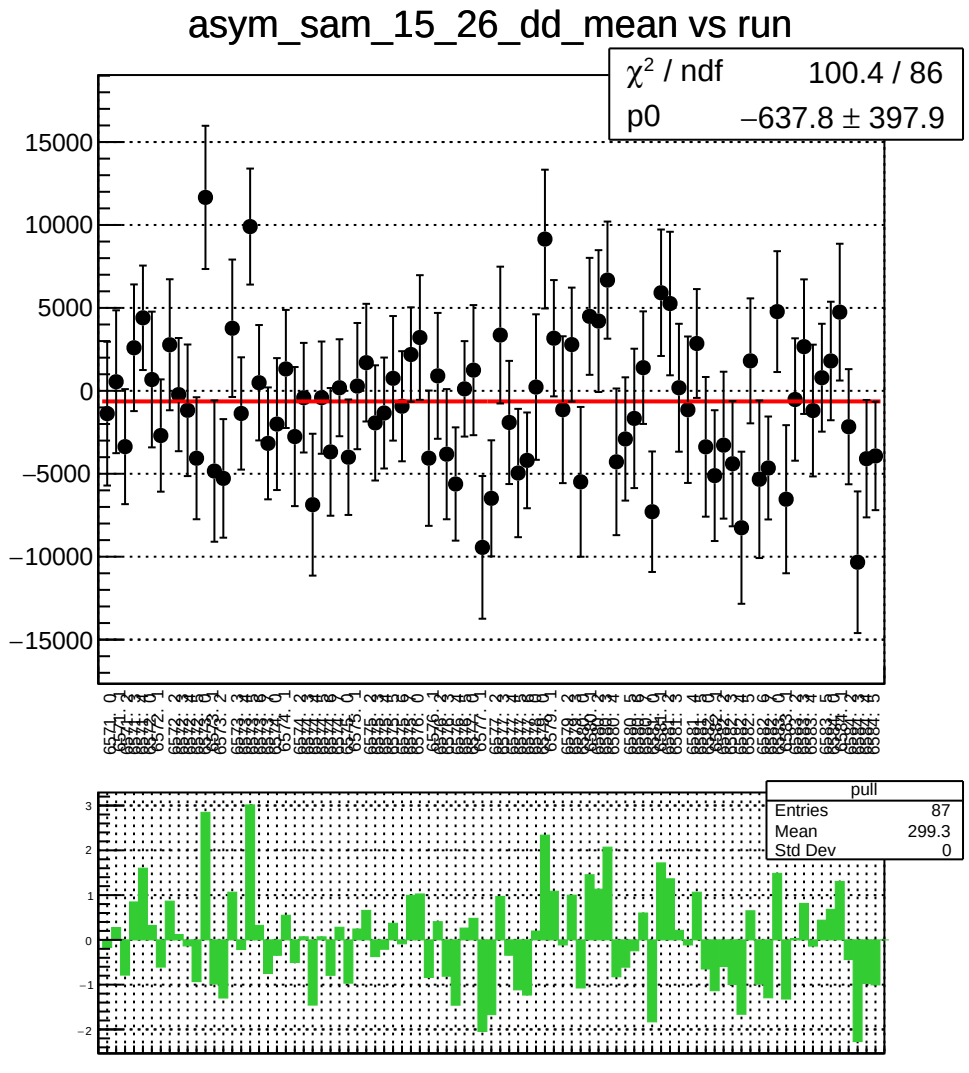

pull1D
Entries 87
Mean 0.00815
Std Dev 0.9576
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

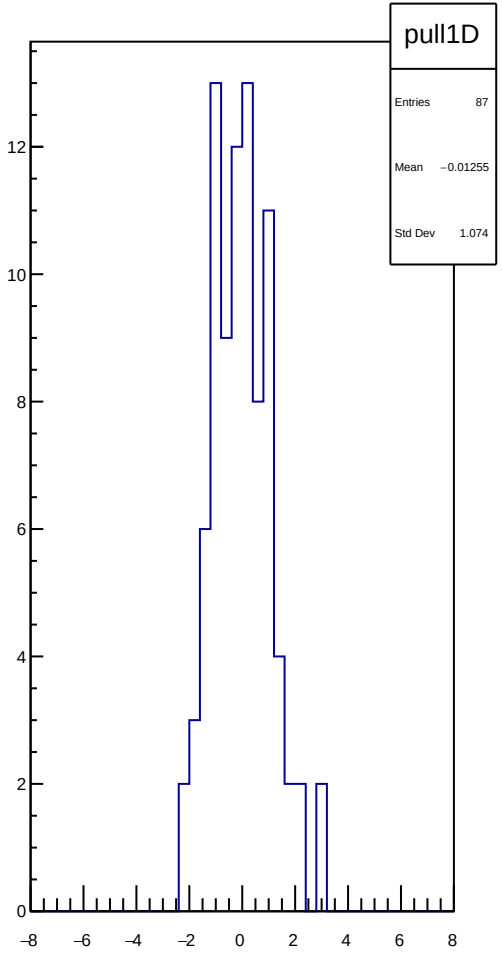

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7090 / 86
p0 64.58 ± 0.04983
78
76
74
72
70
68
66
64
62
60
58

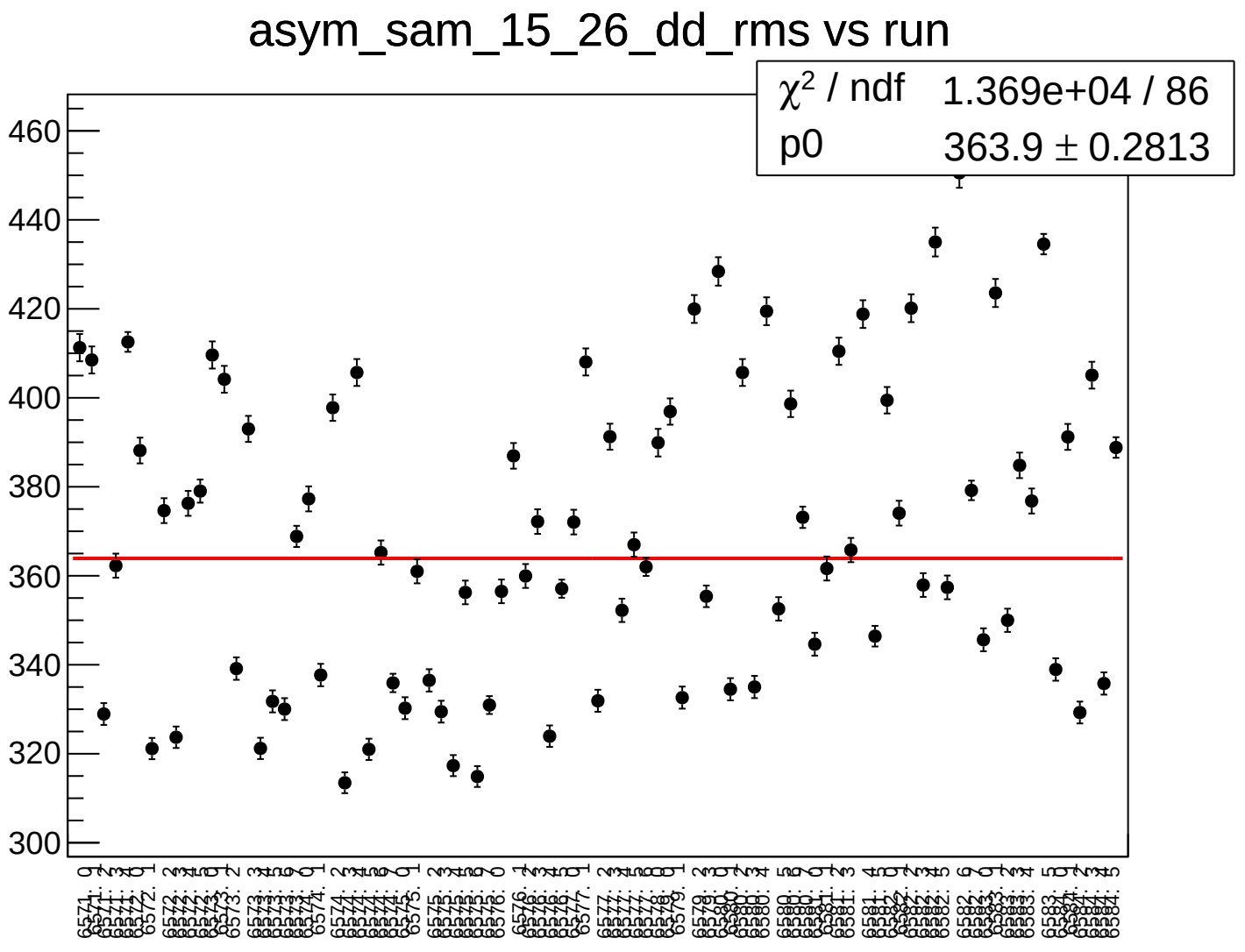

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.6 / 86
p0 675.1 ± 396
pull
Entries 87
Mean 271.8
Std Dev 0

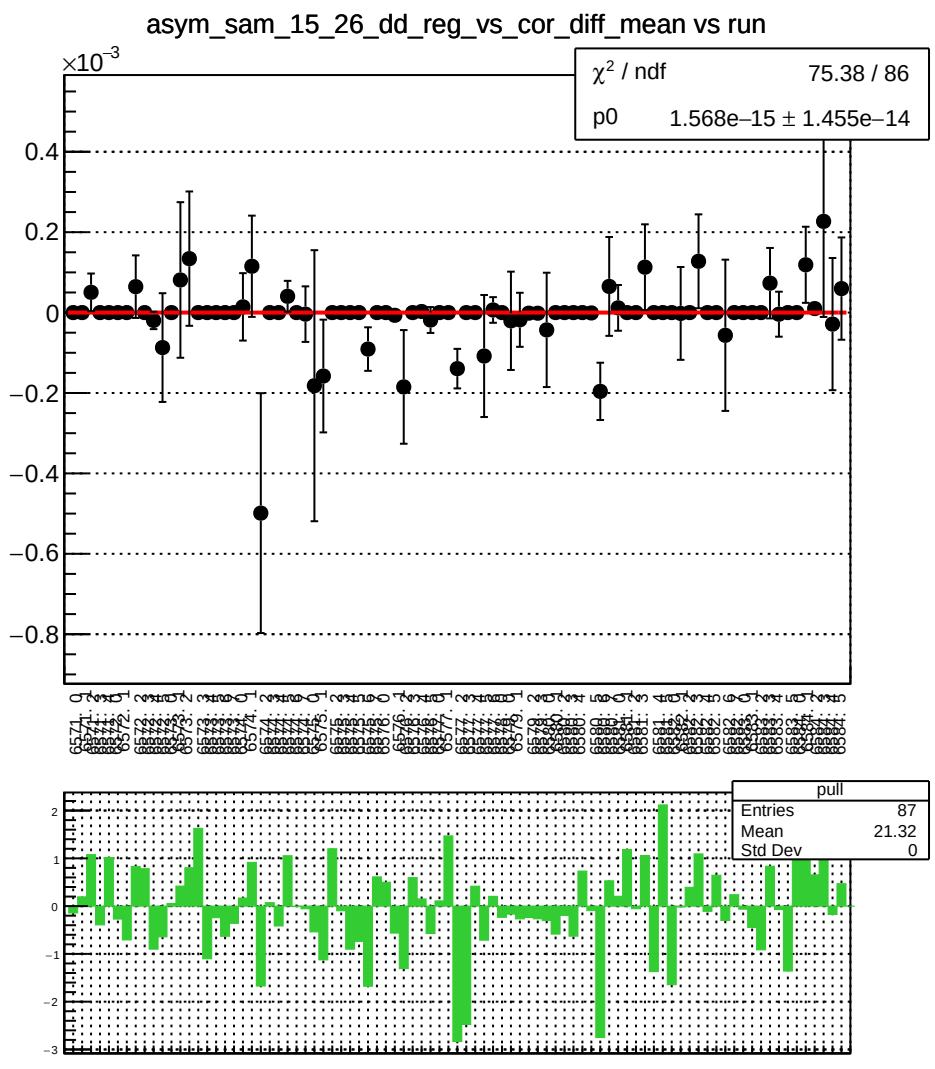

pull1D
Entries 87
Mean 0.01592
Std Dev 1.075

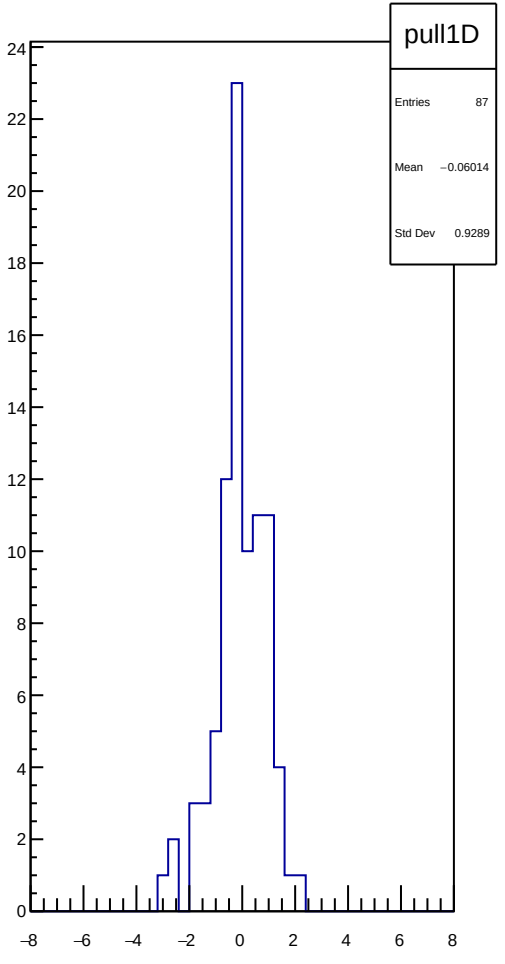

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 9887 / 86
p0 362.6 ± 0.28
440
420
400
380
360
340
320
300

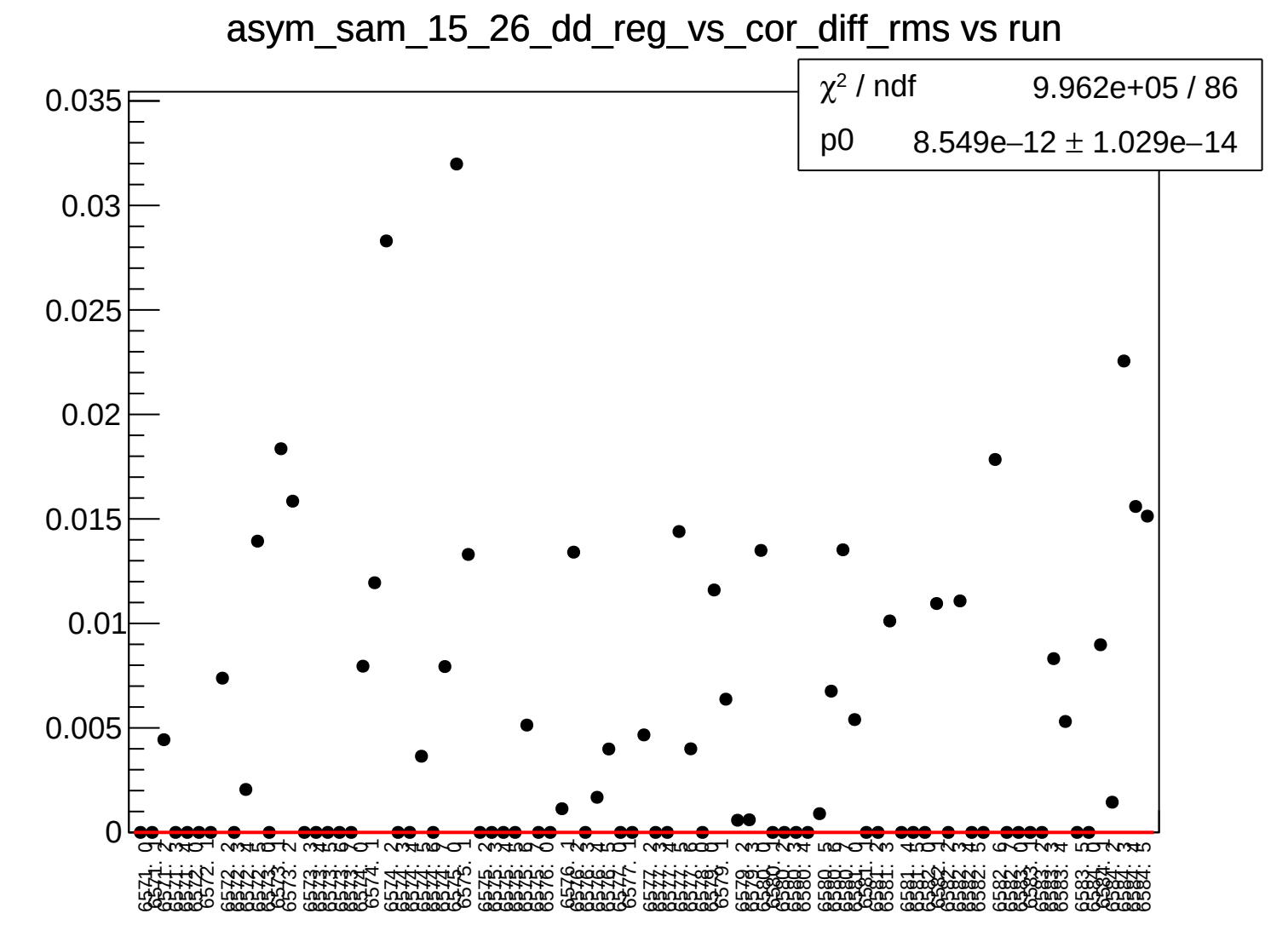

asym_sam_15_26_dd_mean vs run
χ² / ndf 100.4 / 86
p0 −637.8 ± 397.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 299.3
Std Dev 0
3
2
1
0
−1
−2

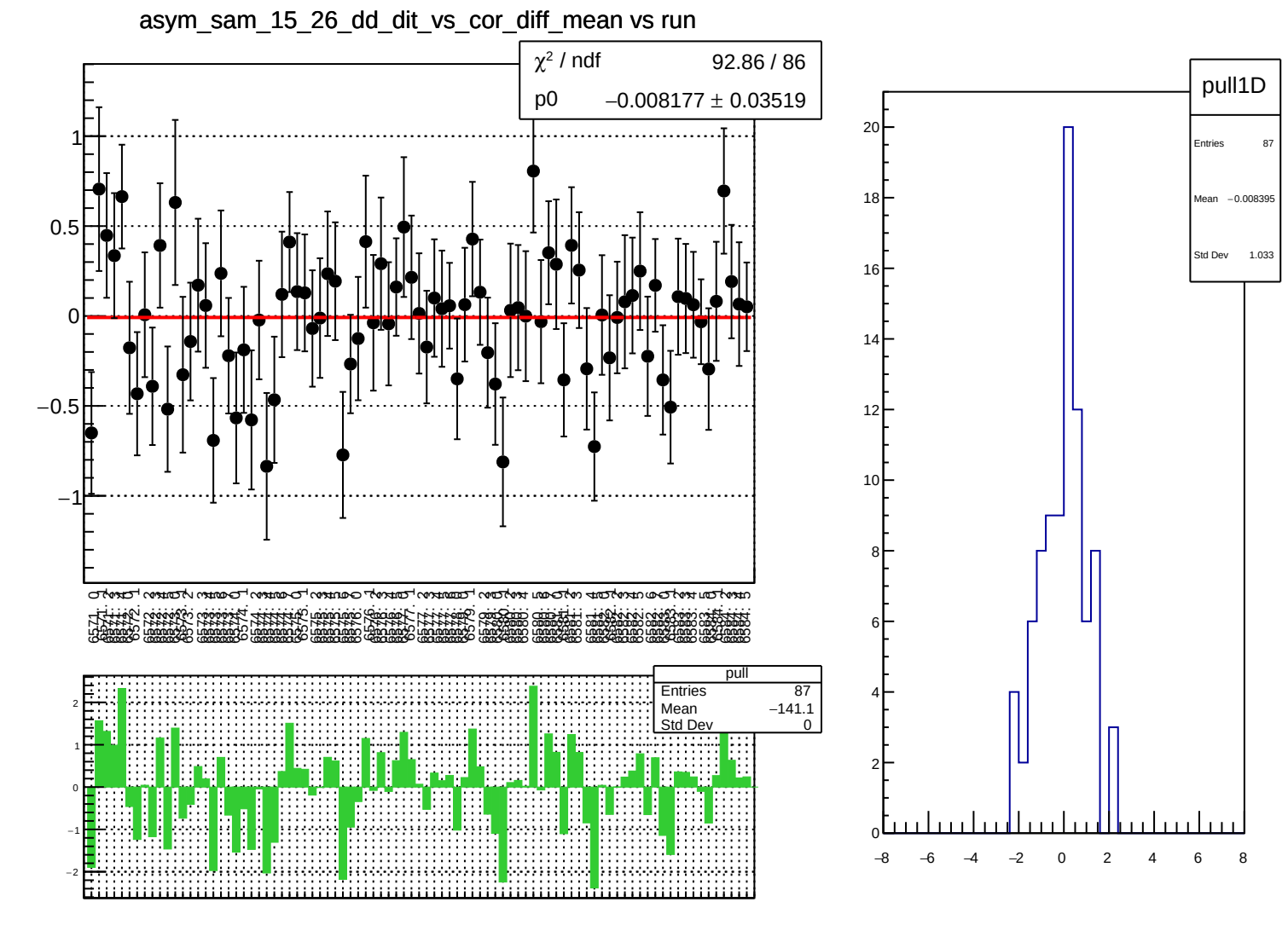

pull1D
Entries 87
Mean −0.01255
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

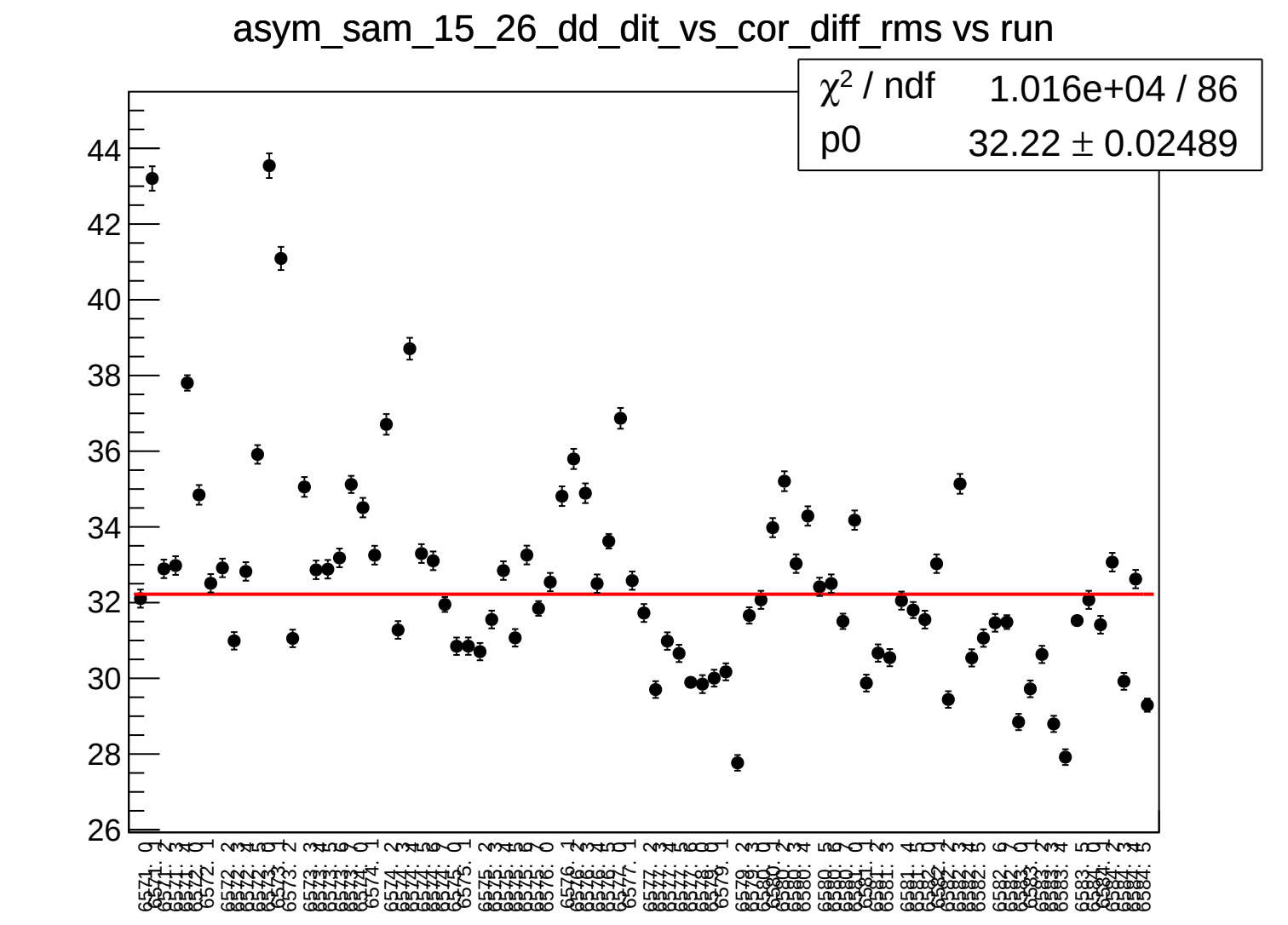

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.369e+04 / 86
p0 363.9 ± 0.2813
460
440
420
400
380
360
340
320
300

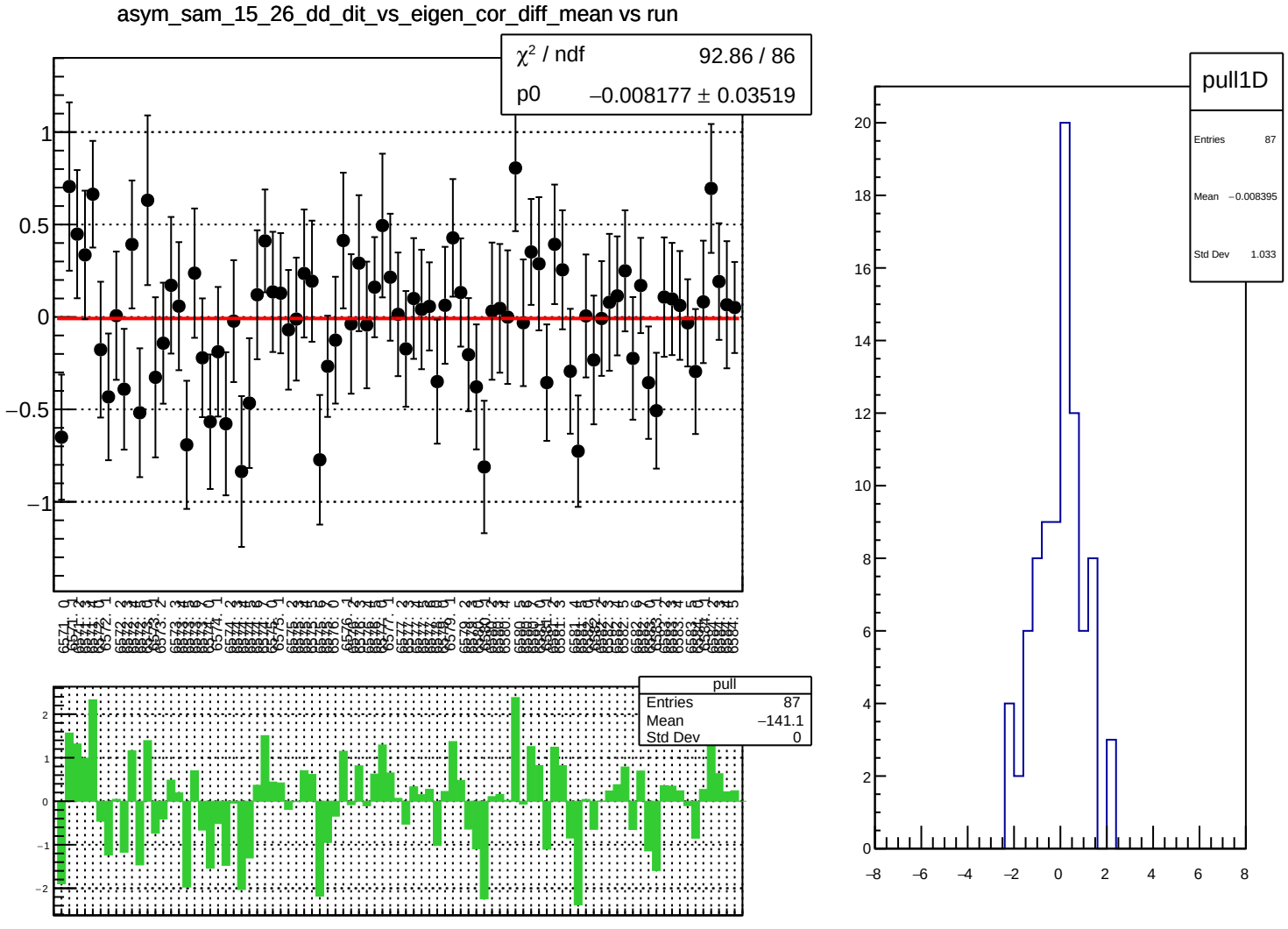

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 75.38 / 86
p0 1.568e−15 ± 1.455e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 87
Mean 21.32
Std Dev 0
2
1
0
−1
−2
−3

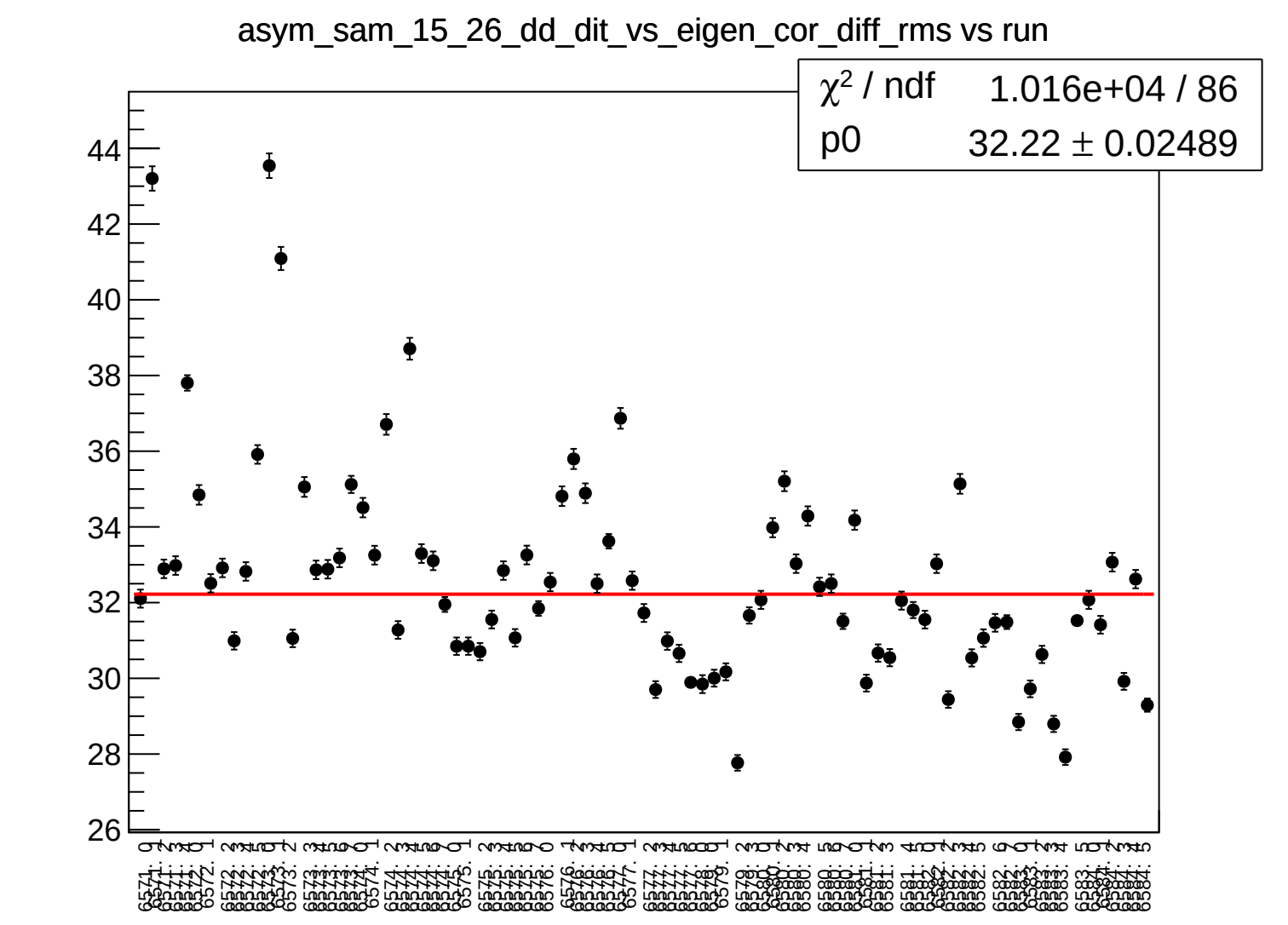

pull1D
Entries 87
Mean −0.06014
Std Dev 0.9289
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

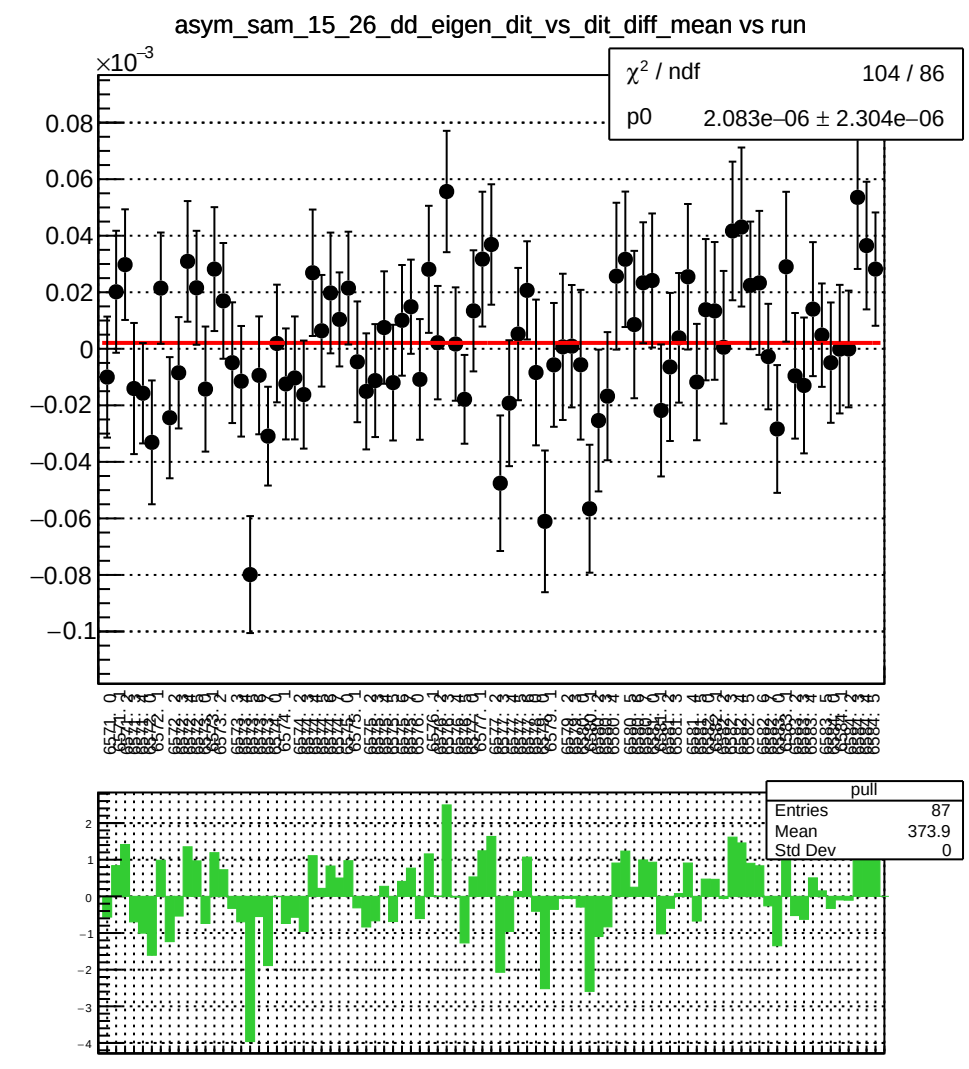

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.962e+05 / 86
p0 8.549e−12 ± 1.029e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

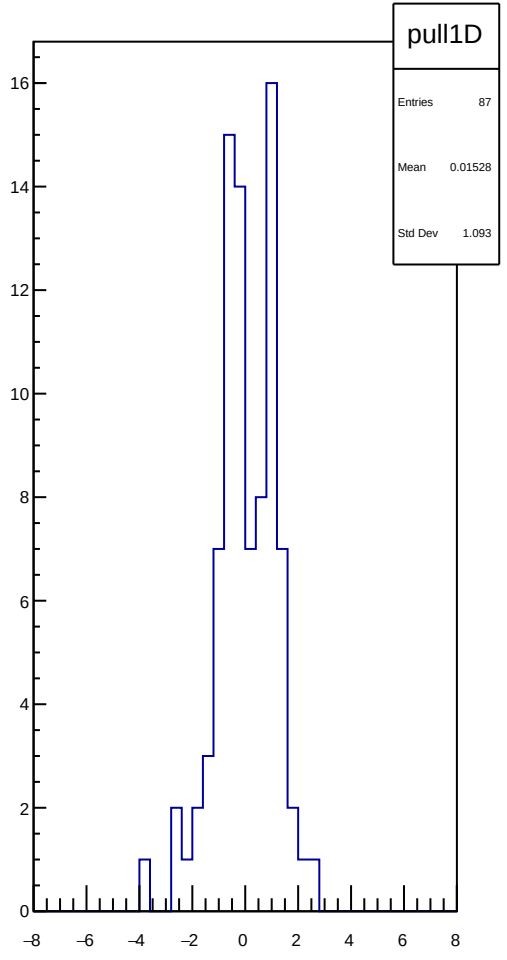

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.86 / 86
p0 −0.008177 ± 0.03519
pull
Entries 87
Mean −141.1
Std Dev 0
pull1D
Entries 87
Mean −0.008395
Std Dev 1.033

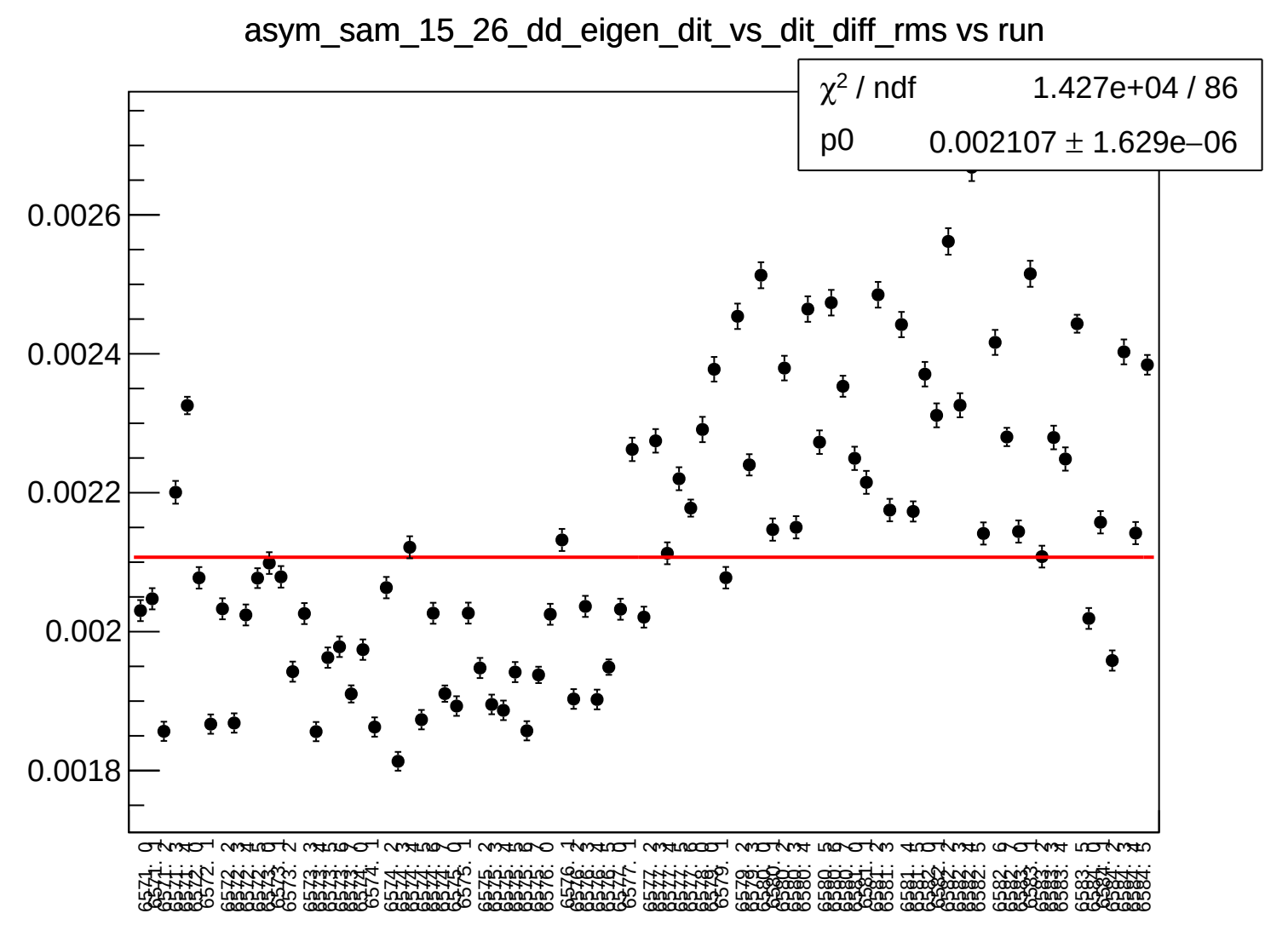

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.016e+04 / 86
p0 32.22 ± 0.02489
44
42
40
38
36
34
32
30
28
26

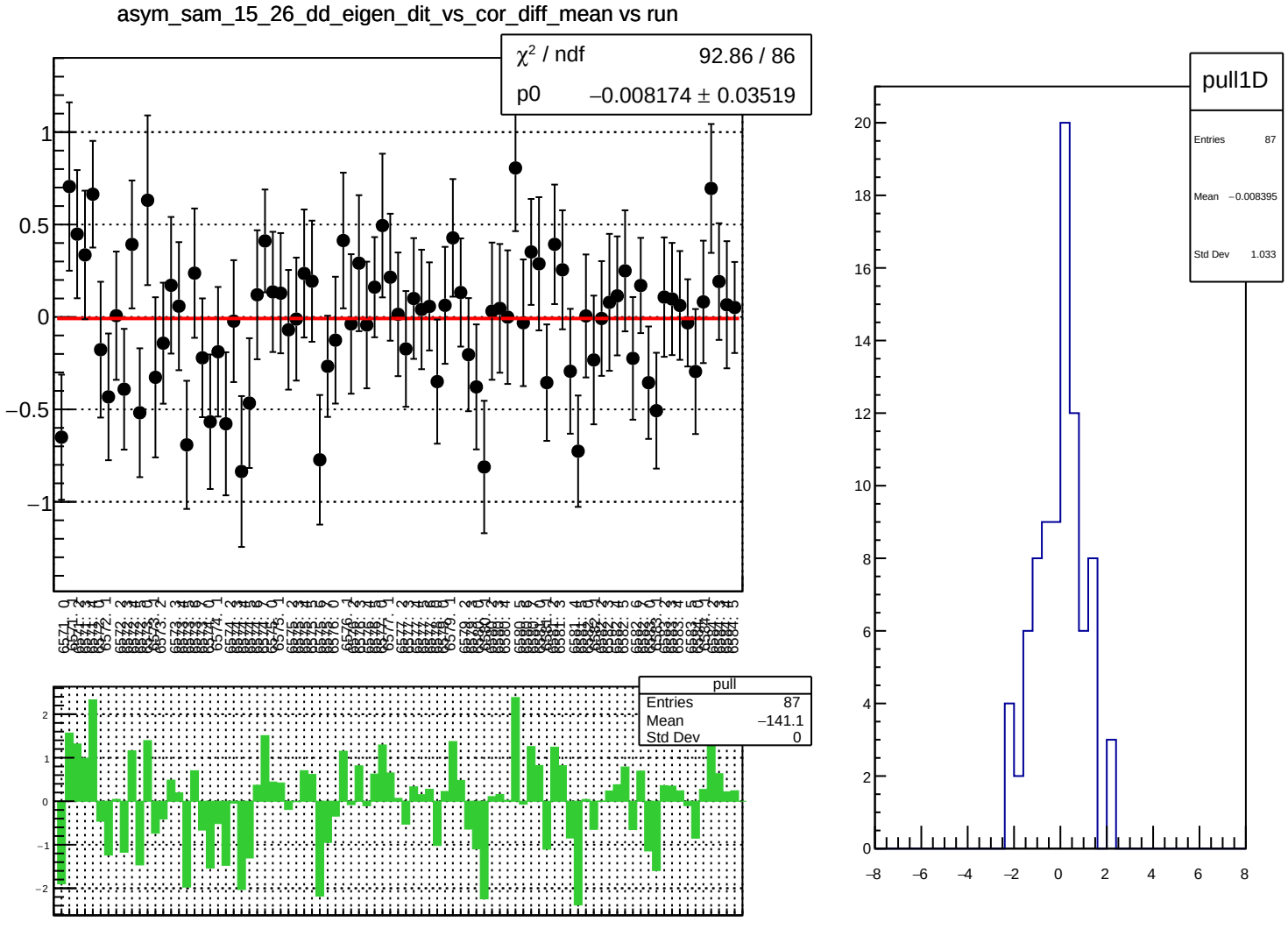

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.86 / 86
p0 −0.008177 ± 0.03519
pull
Entries 87
Mean −141.1
Std Dev 0
pull1D
Entries 87
Mean −0.008395
Std Dev 1.033

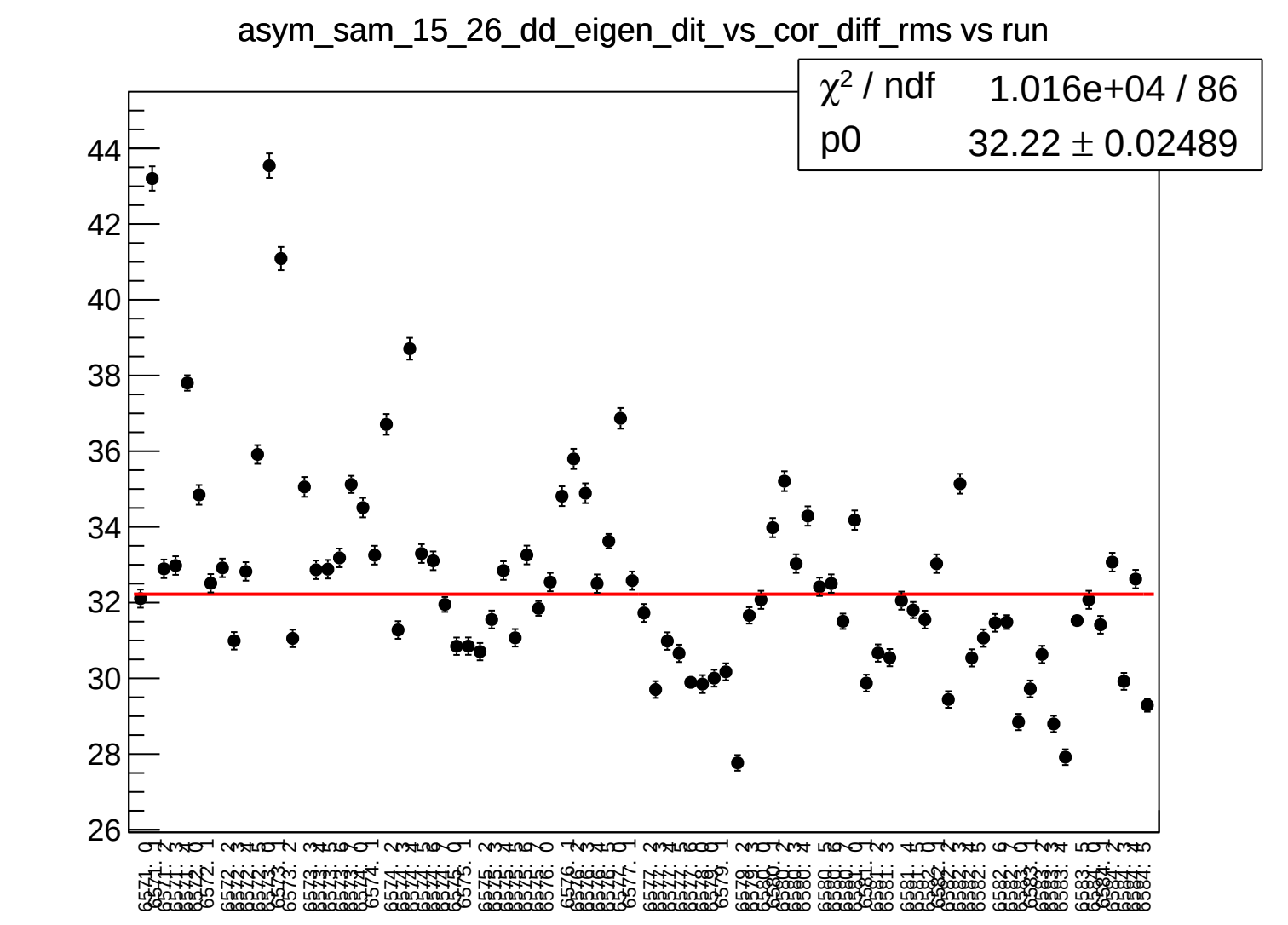

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.016e+04 / 86
p0 32.22 ± 0.02489
44
42
40
38
36
34
32
30
28
26

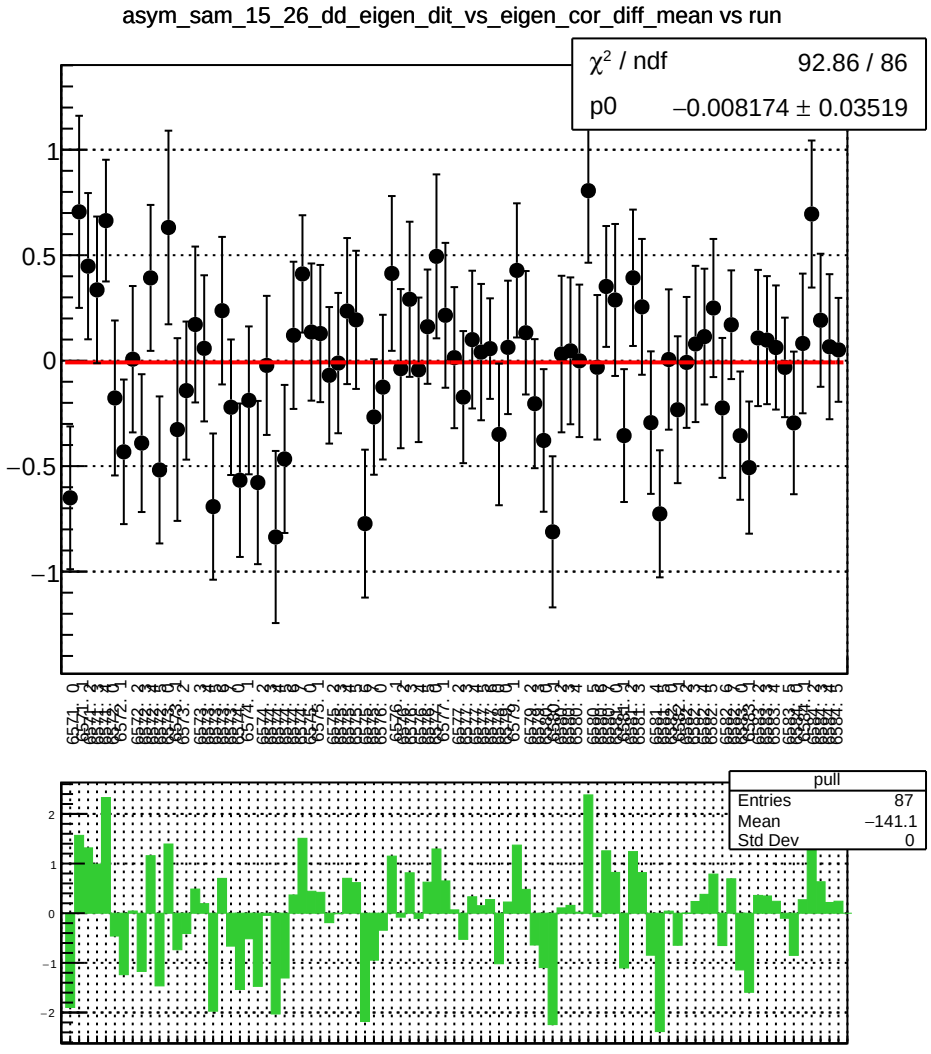

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104 / 86
p0 2.083e−06 ± 2.304e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 87
Mean 373.9
Std Dev 0
2
1
0
−1
−2
−3
−4

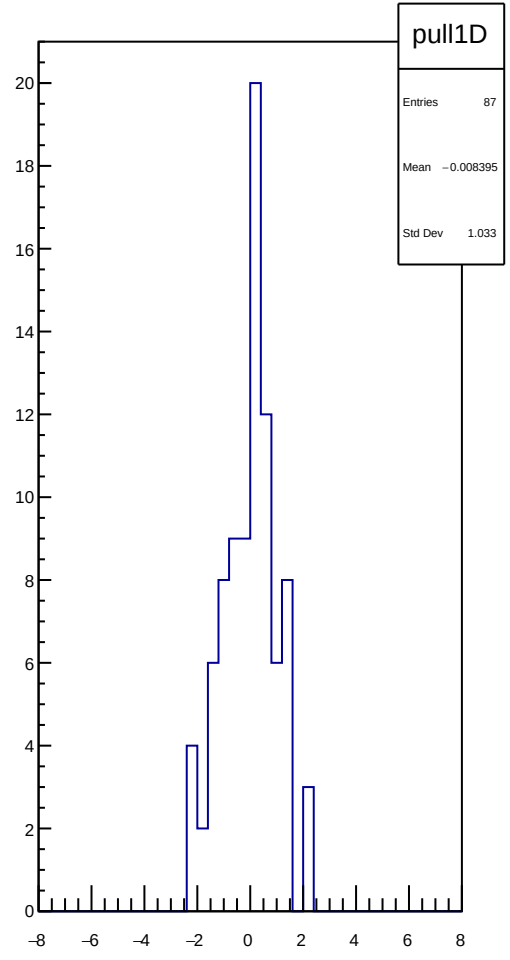

pull1D
Entries 87
Mean 0.01528
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

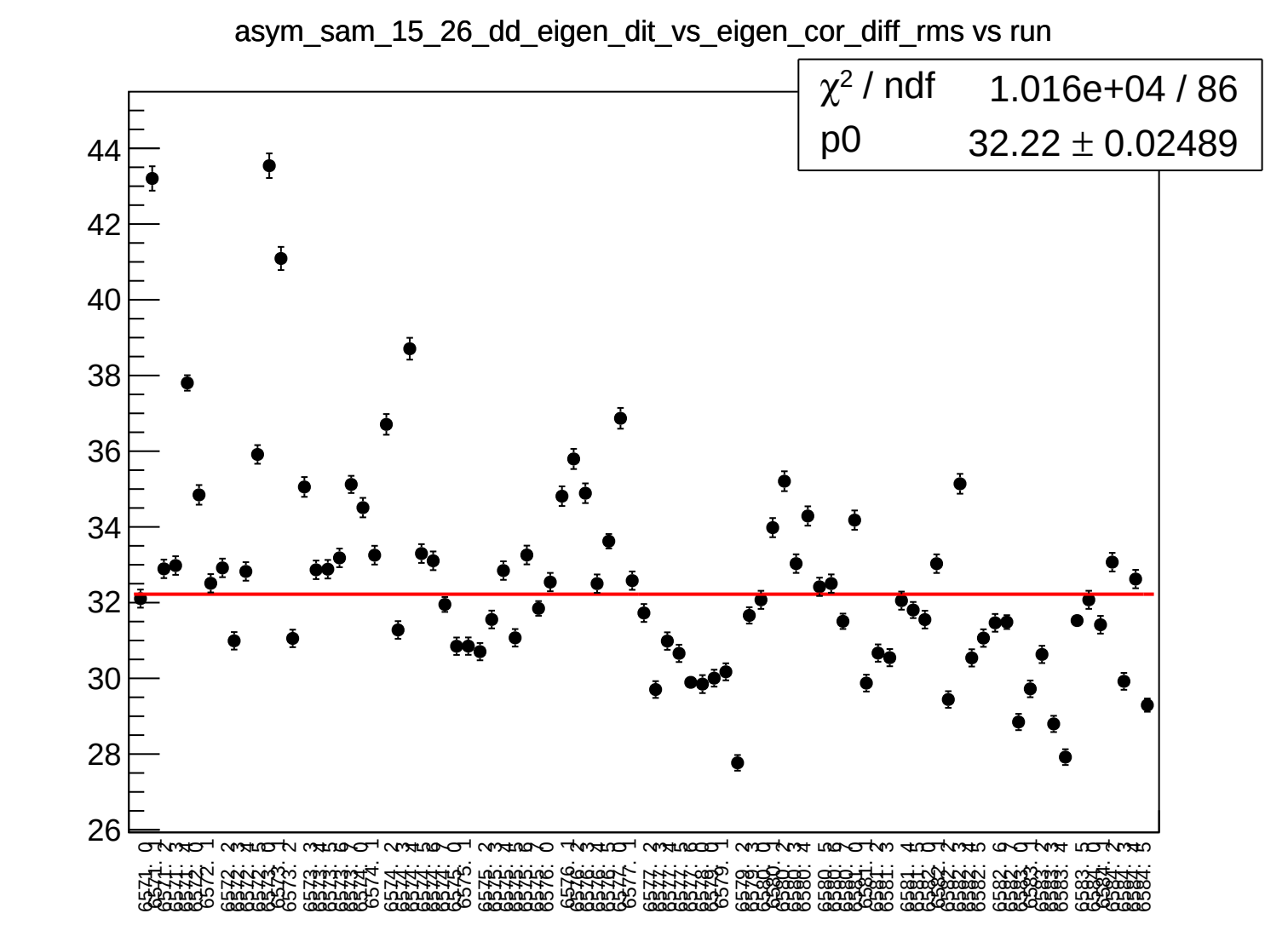

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.427e+04 / 86
p0 0.002107 ± 1.629e−06
0.0026
0.0024
0.0022
0.002
0.0018

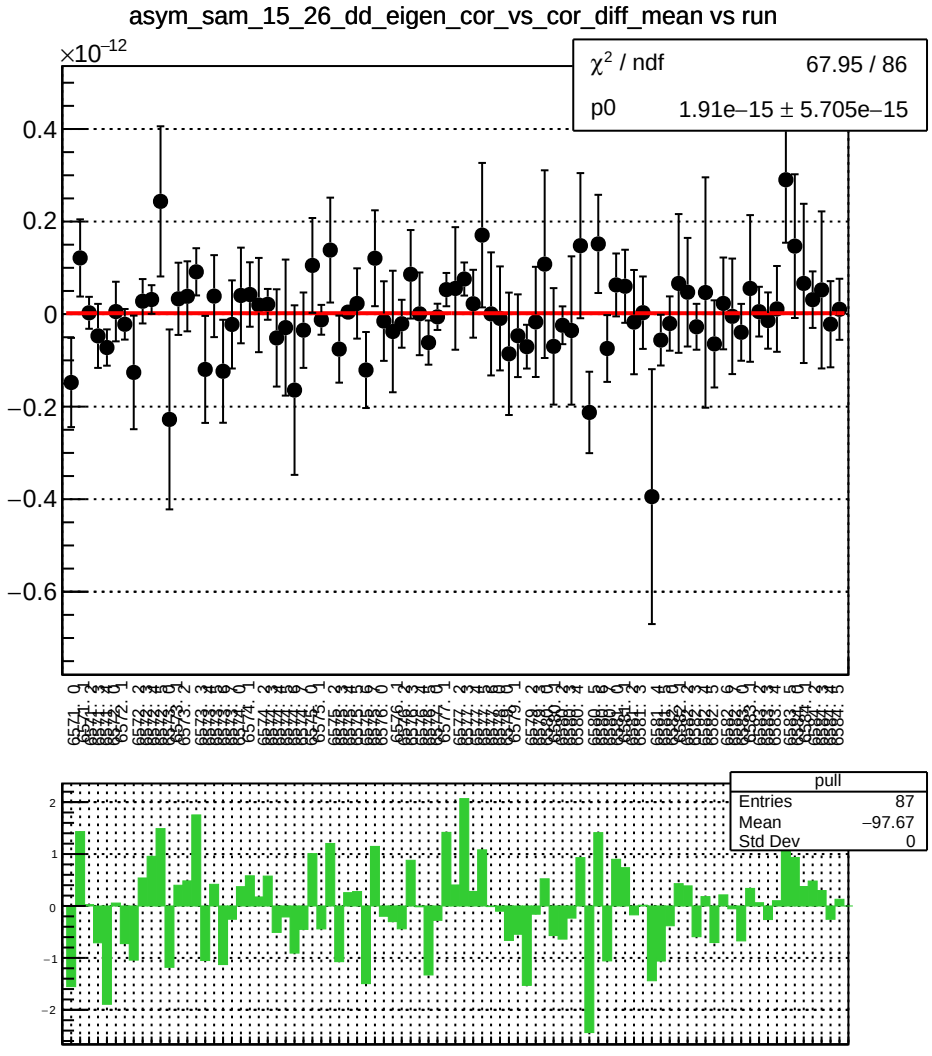

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.86 / 86
p0 −0.008174 ± 0.03519
pull
Entries 87
Mean −141.1
Std Dev 0
pull1D
Entries 87
Mean −0.008395
Std Dev 1.033

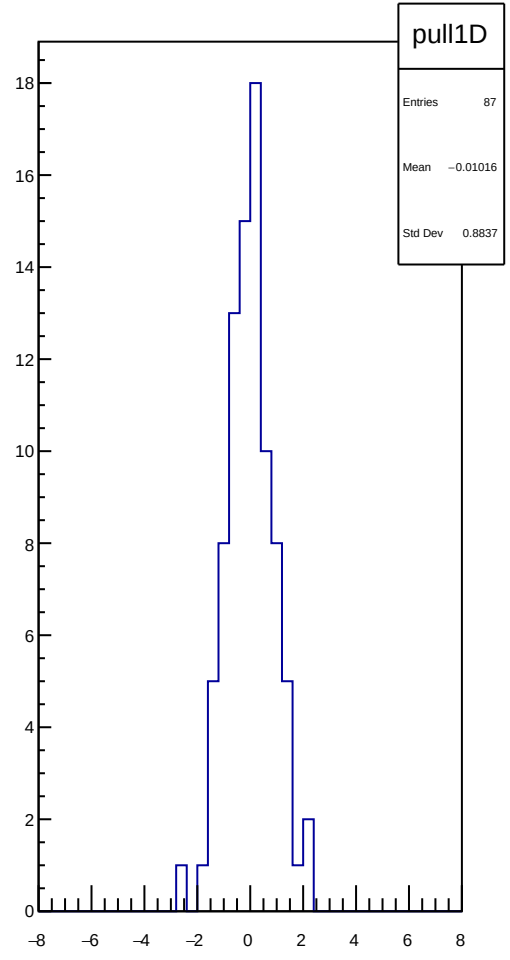

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.016e+04 / 86
p0 32.22 ± 0.02489
44
42
40
38
36
34
32
30
28
26

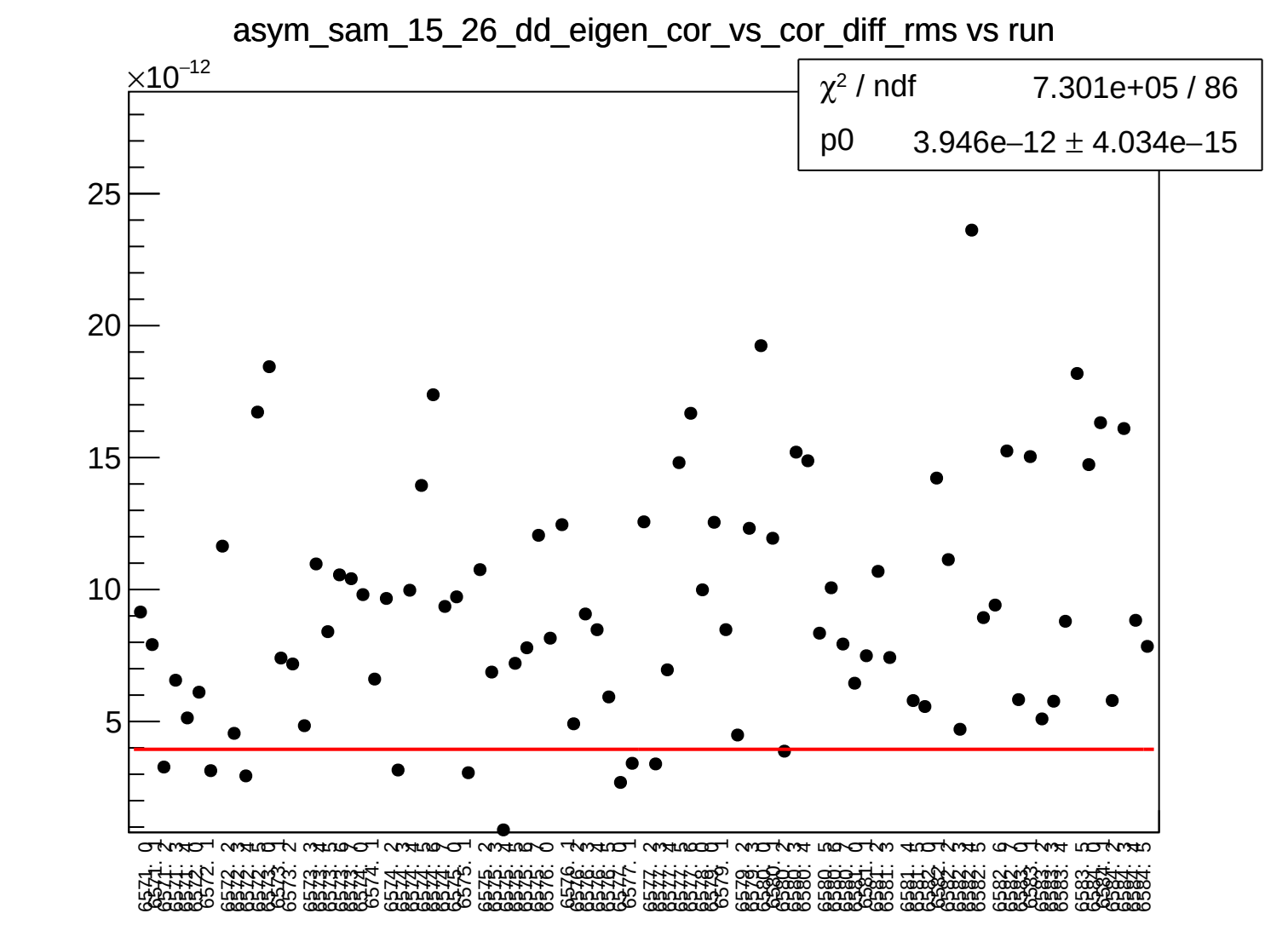

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.86 / 86
p0 −0.008174 ± 0.03519
pull
Entries 87
Mean −141.1
Std Dev 0

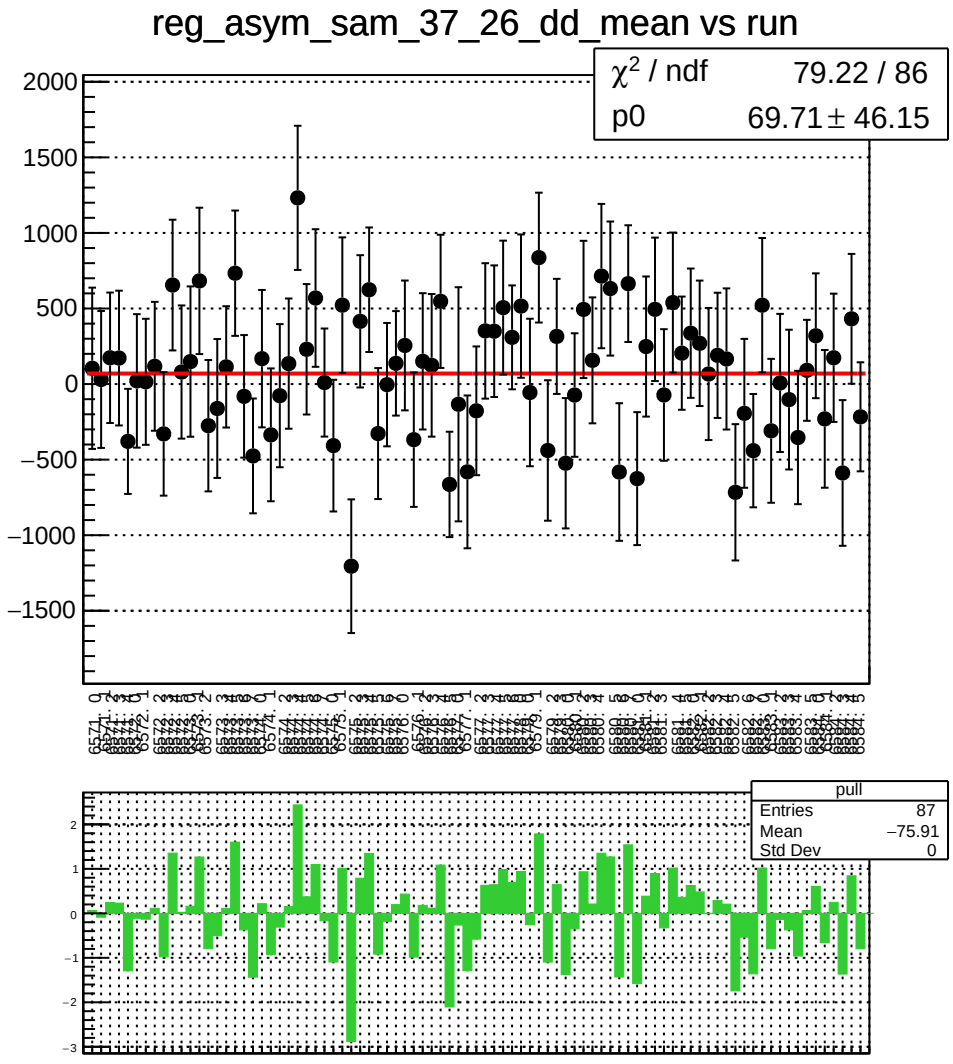

pull1D
Entries 87
Mean −0.008395
Std Dev 1.033

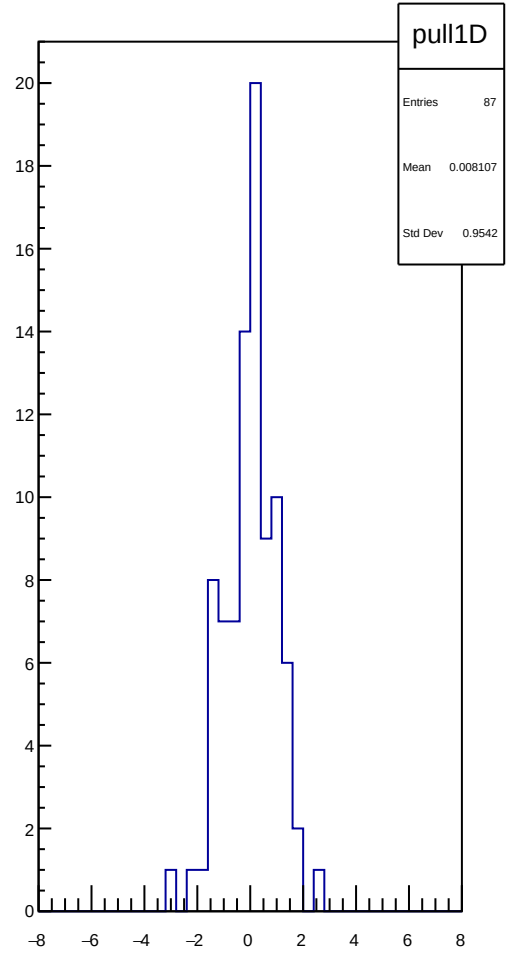

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.016e+04 / 86
p0 32.22 ± 0.02489
44
42
40
38
36
34
32
30
28
26

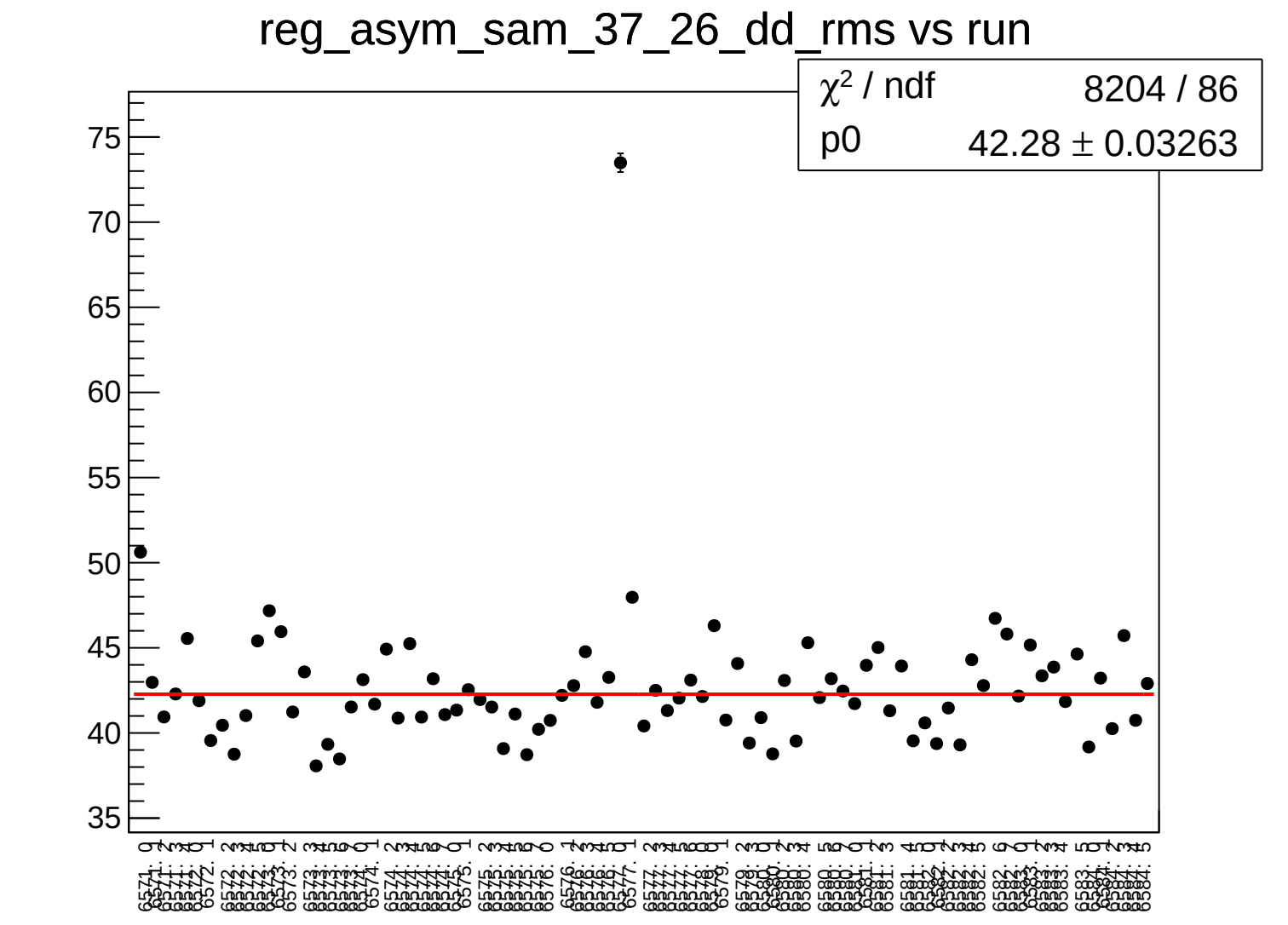

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.95 / 86
p0 1.91e−15 ± 5.705e−15
pull
Entries 87
Mean −97.67
Std Dev 0

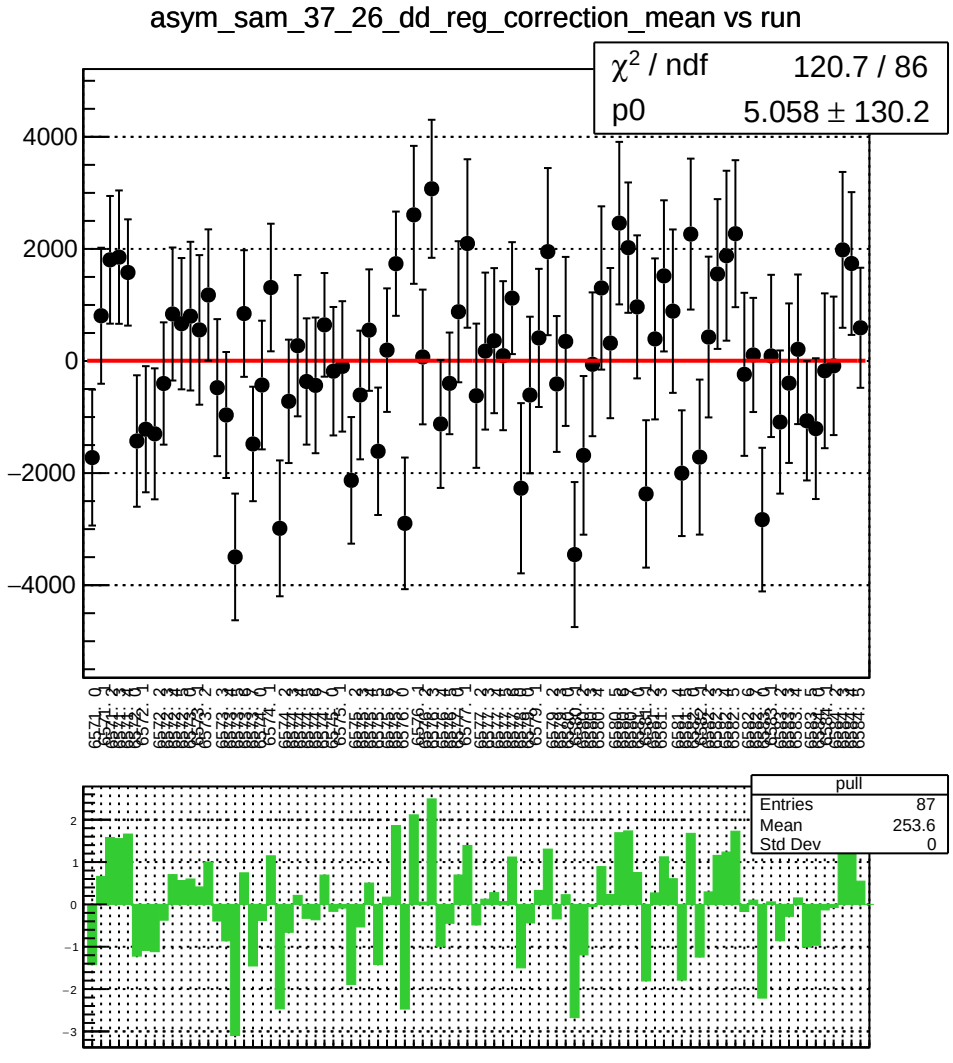

pull1D
Entries 87
Mean −0.01016
Std Dev 0.8837

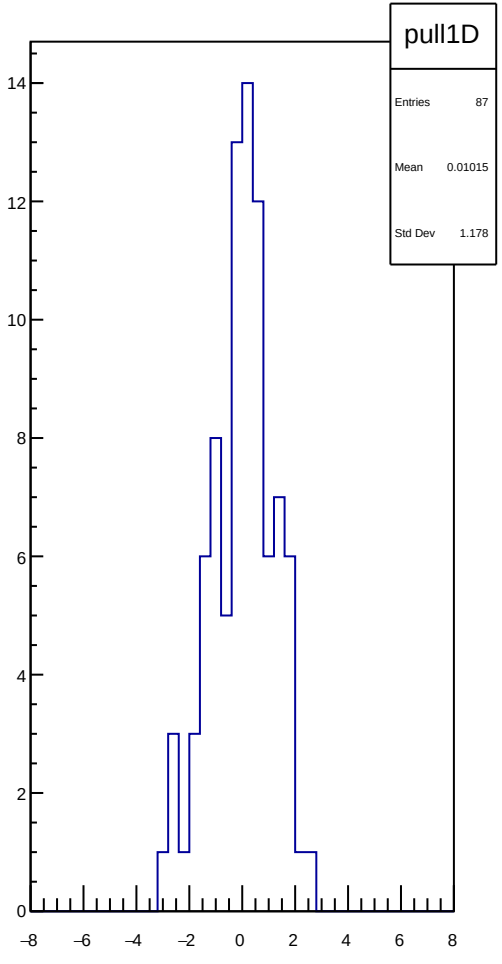

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.301e+05 / 86
p0 3.946e−12 ± 4.034e−15
25
20
15
10
5

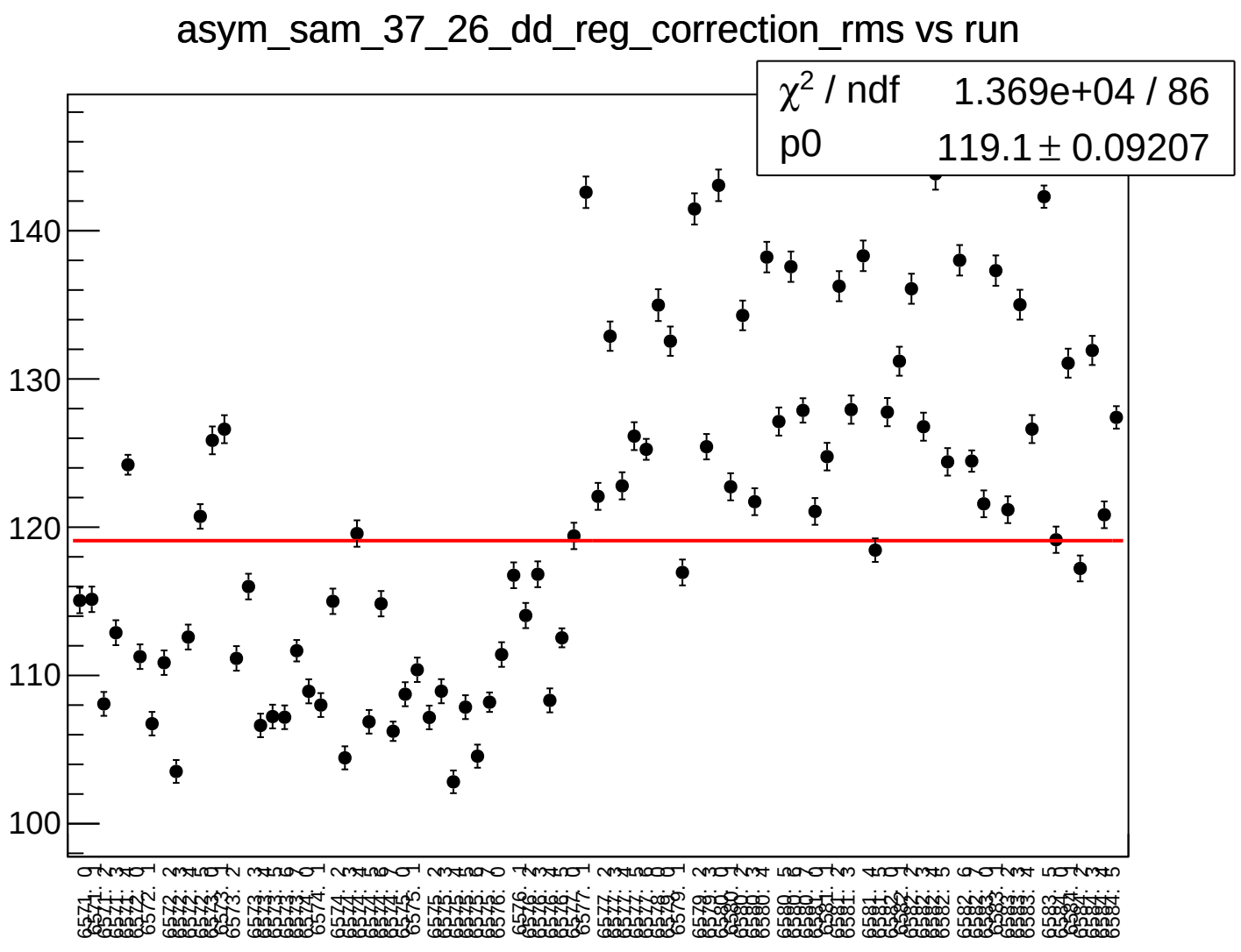

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 79.22 / 86
p0 69.71 ± 46.15
pull
Entries 87
Mean −75.91
Std Dev 0

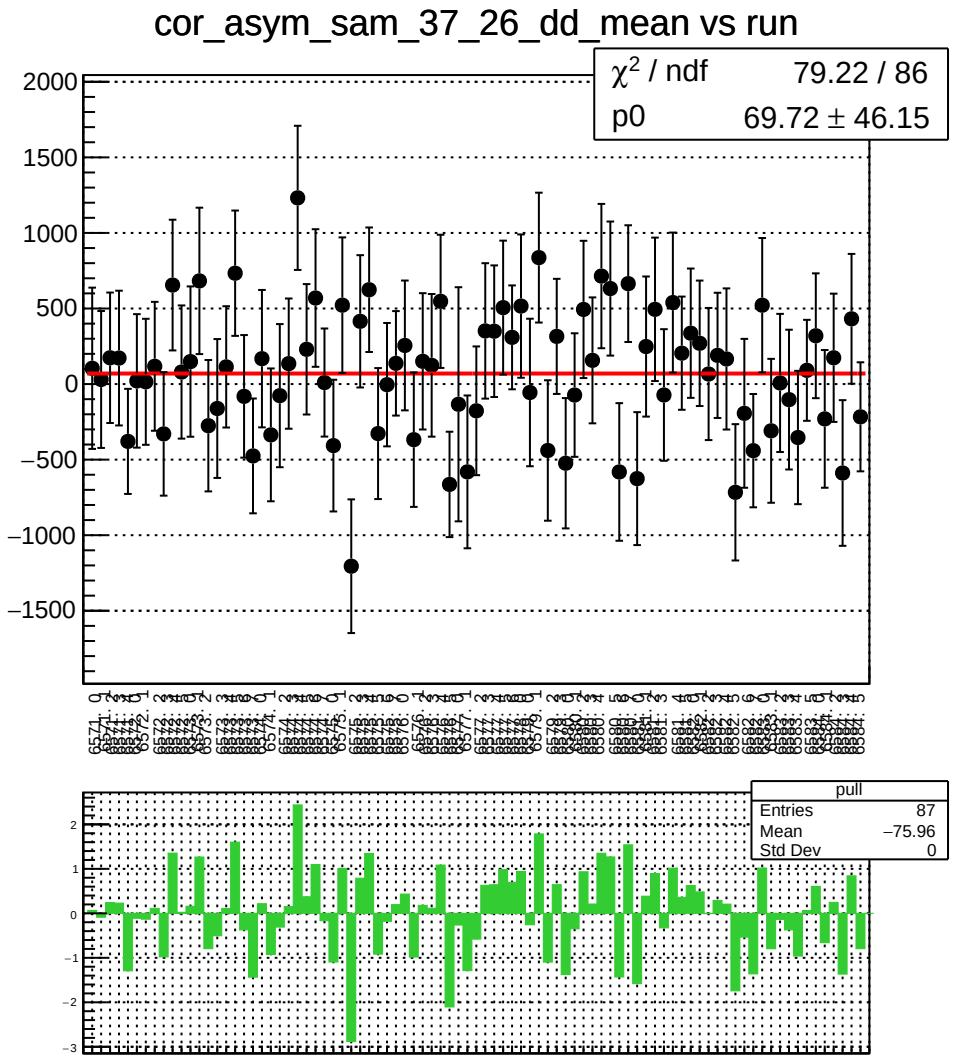

pull1D
Entries 87
Mean 0.008107
Std Dev 0.9542

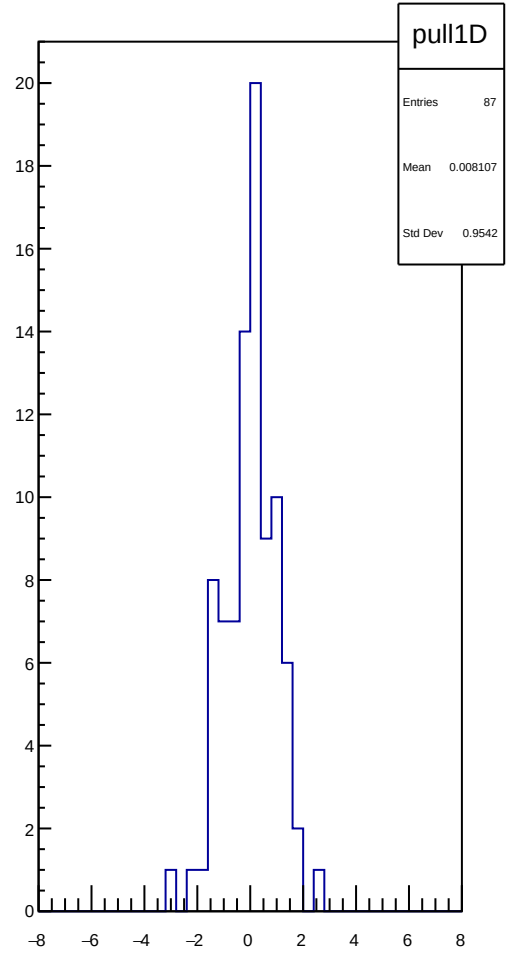

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 8204 / 86
p0 42.28 ± 0.03263
75
70
65
60
55
50
45
40
35

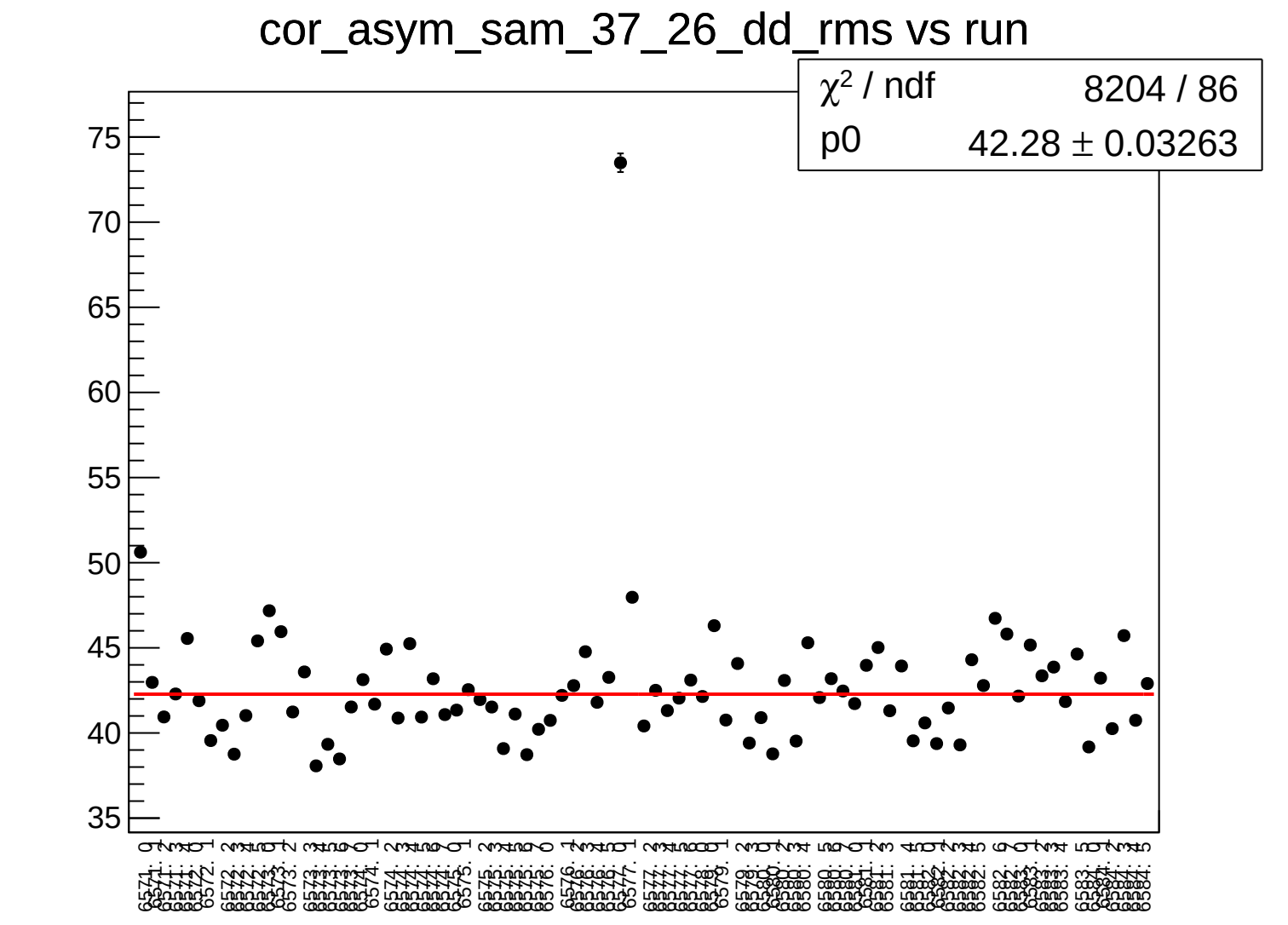

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 120.7 / 86
p0 5.058 ± 130.2
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 253.6
Std Dev 0
2
1
0
−1
−2
−3

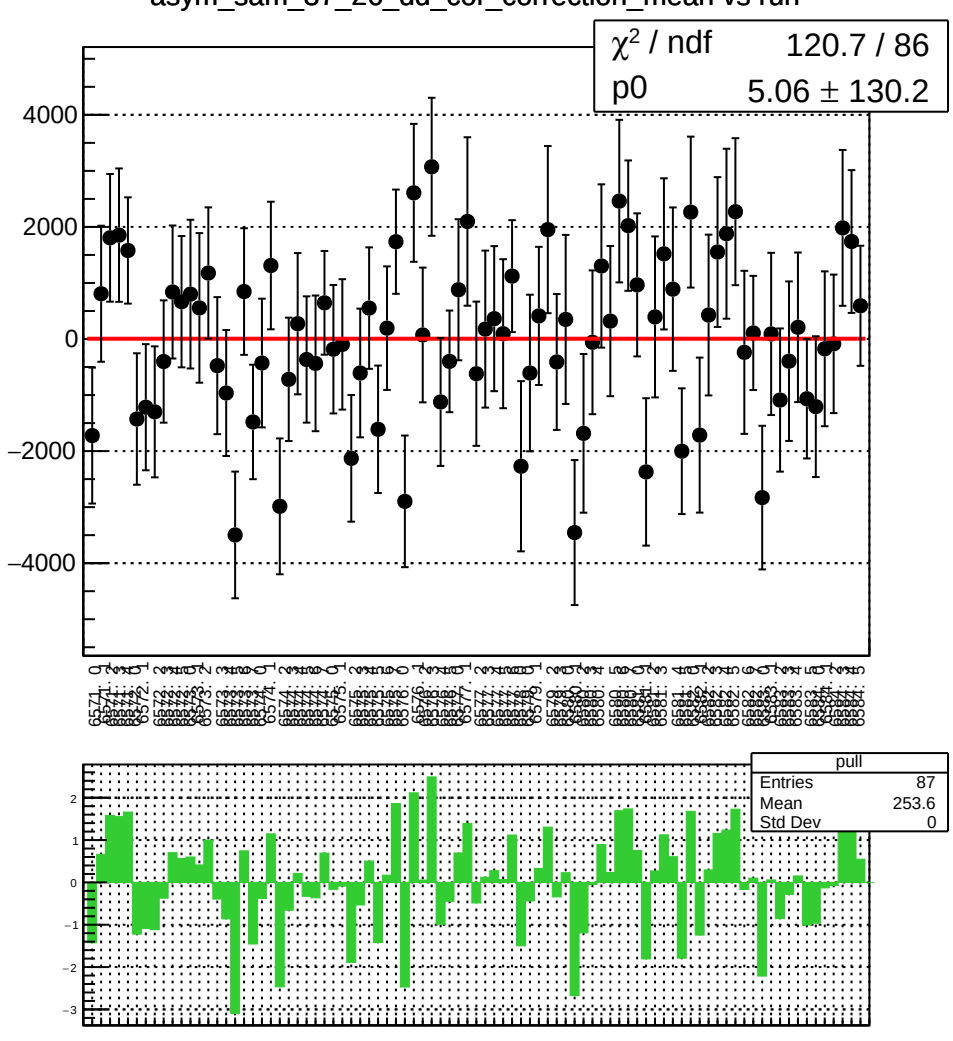

pull1D
Entries 87
Mean 0.01015
Std Dev 1.178
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

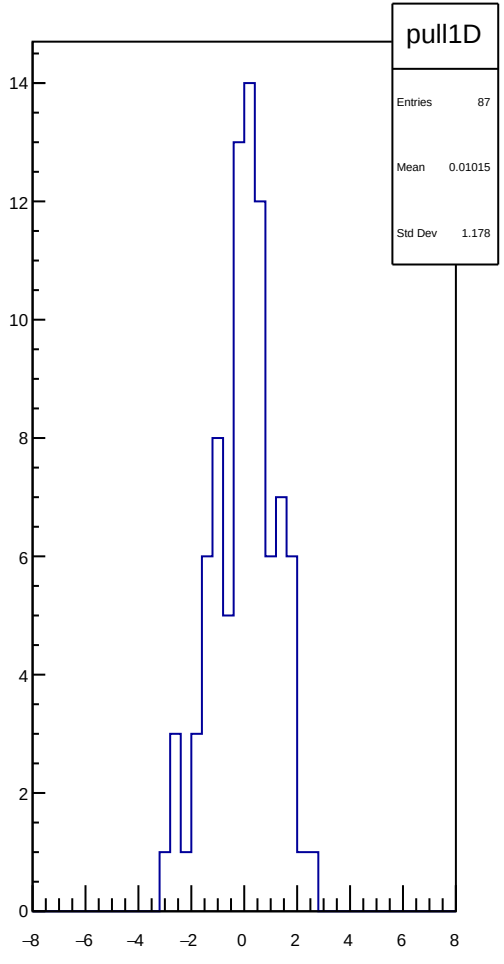

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1.369e+04 / 86
p0 119.1 ± 0.09207
140
130
120
110
100

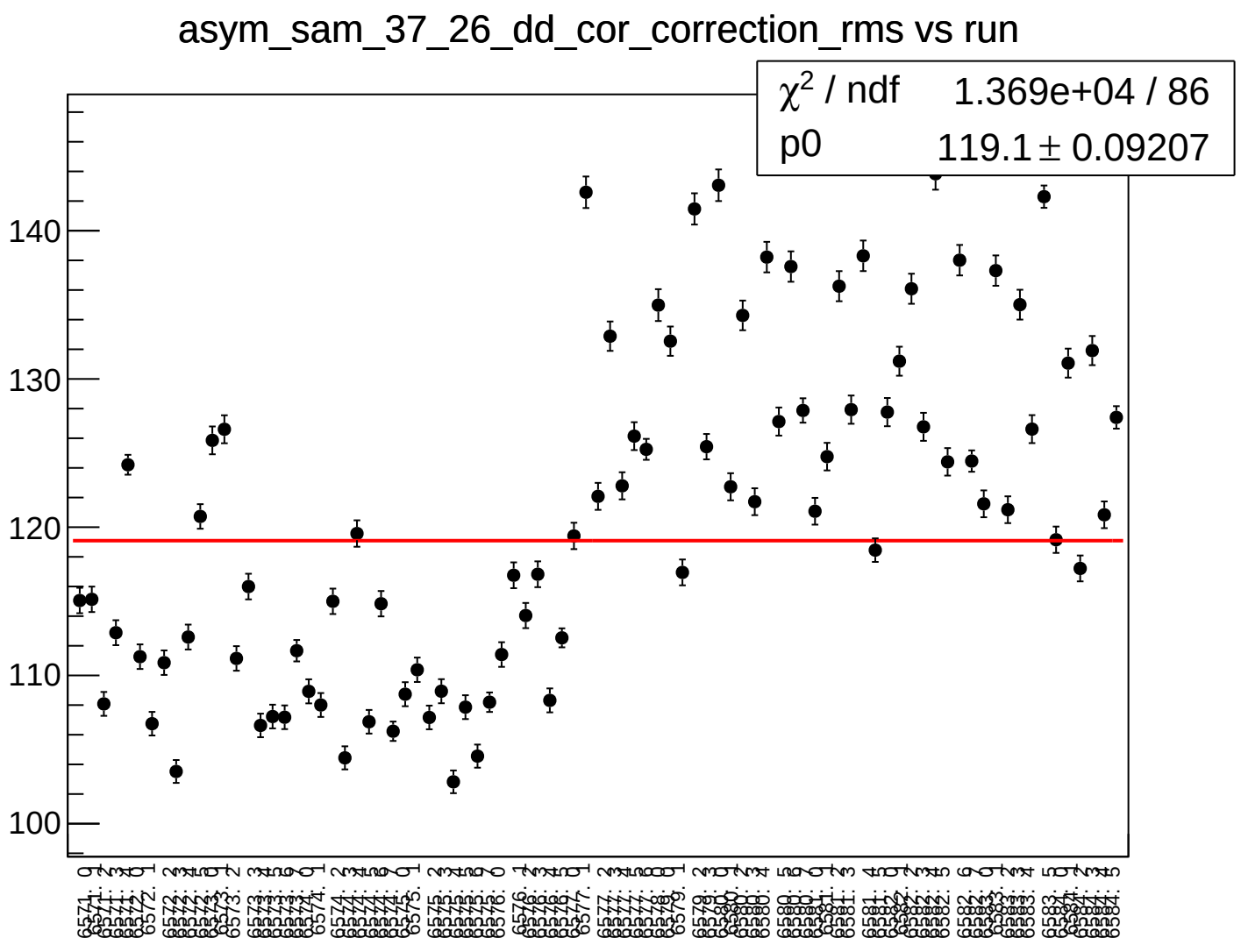

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 79.22 / 86
p0 69.72 ± 46.15
pull
Entries 87
Mean −75.96
Std Dev 0

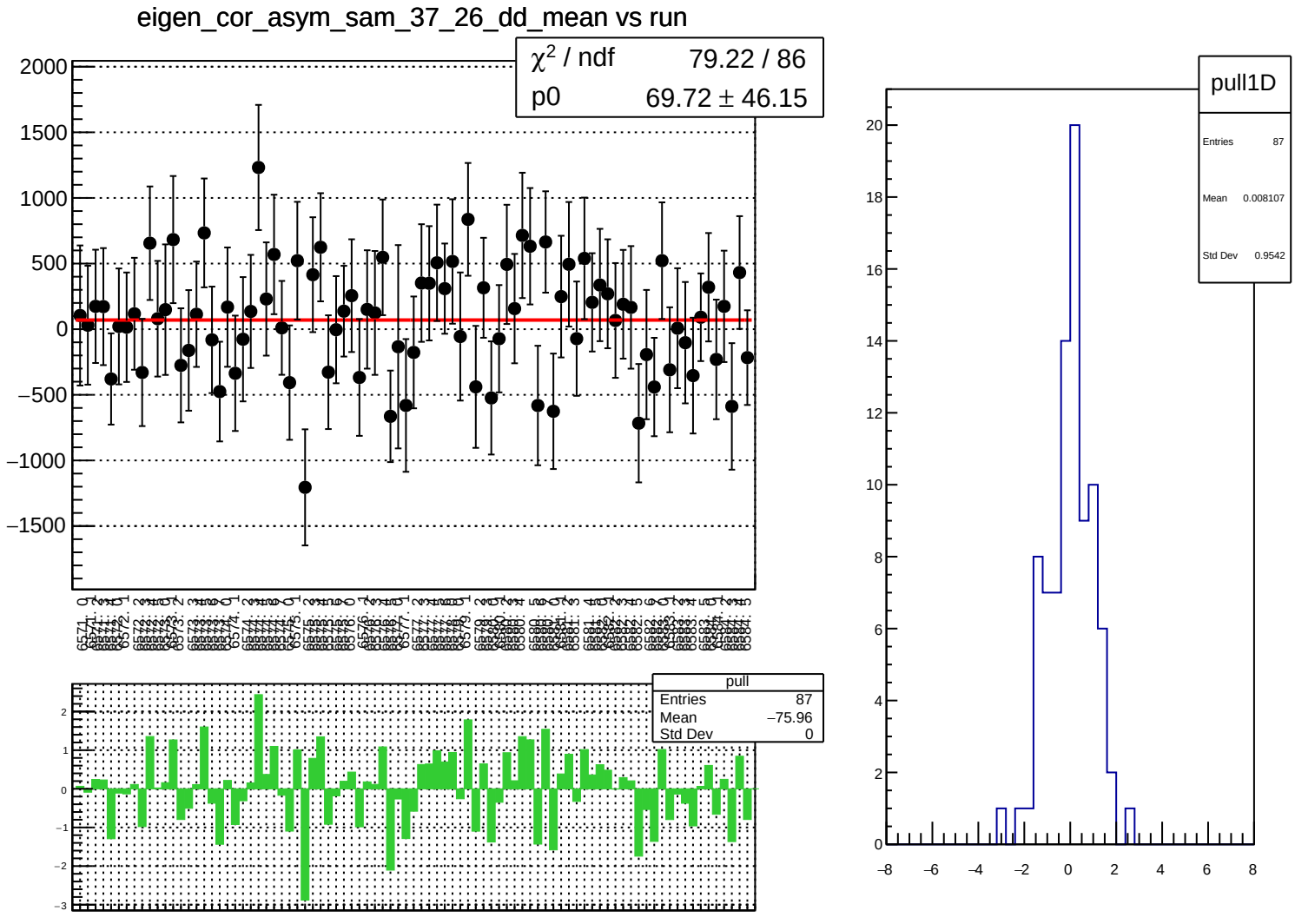

pull1D
Entries 87
Mean 0.008107
Std Dev 0.9542

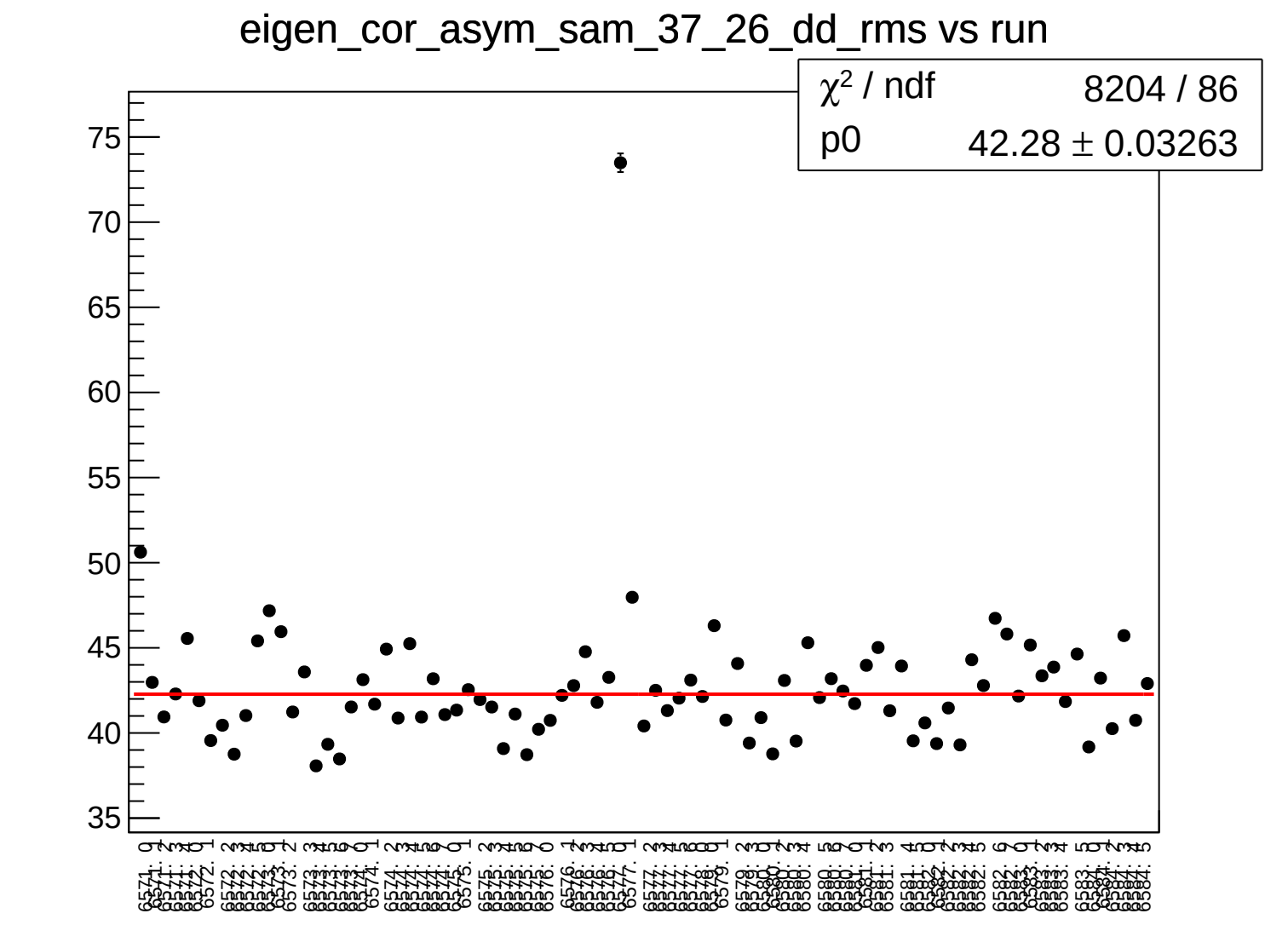

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8204 / 86
p0 42.28 ± 0.03263
75
70
65
60
55
50
45
40
35

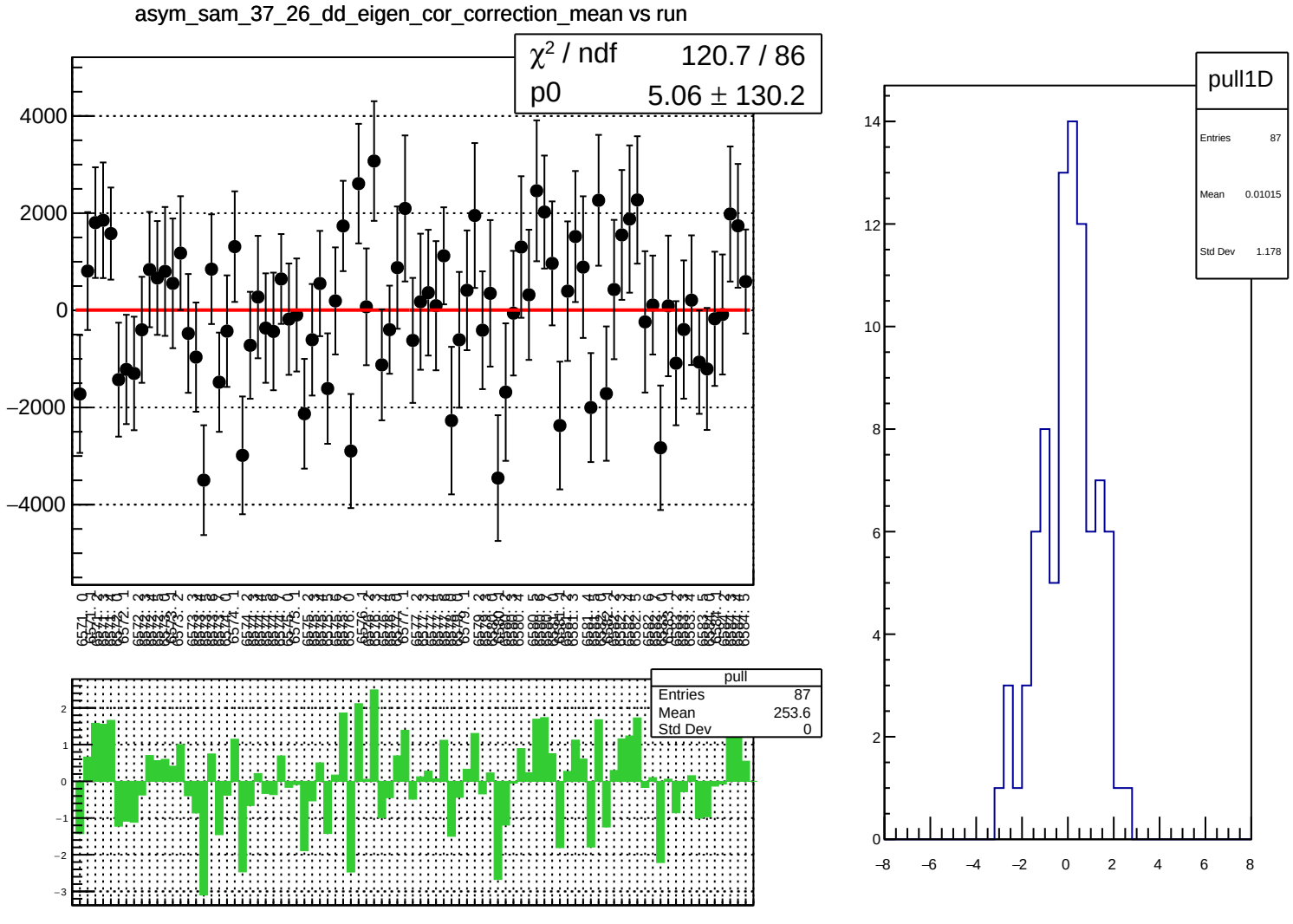

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 120.7 / 86
p0 5.06 ± 130.2
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 253.6
Std Dev 0
2
1
0
−1
−2
−3

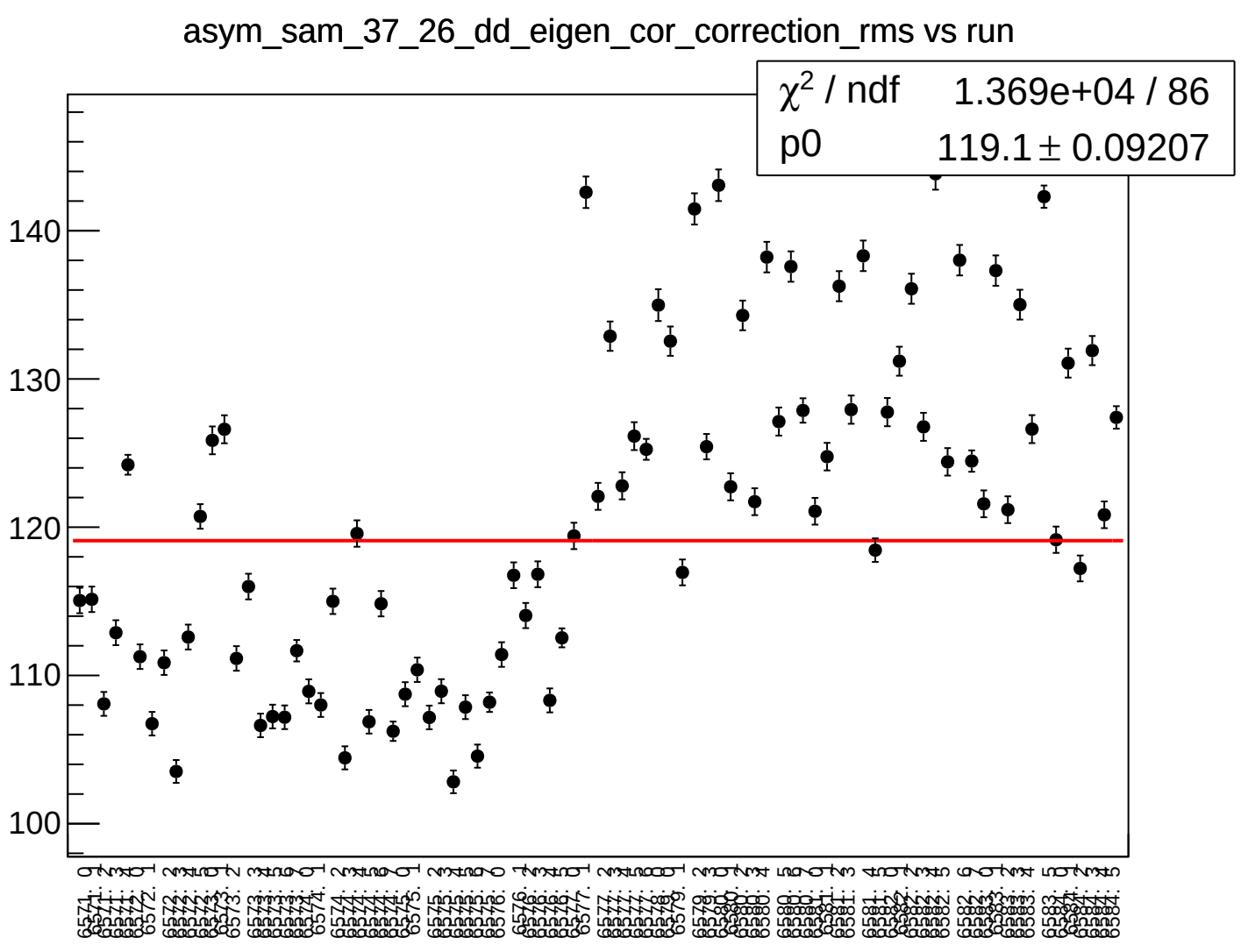

pull1D
Entries 87
Mean 0.01015
Std Dev 1.178
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

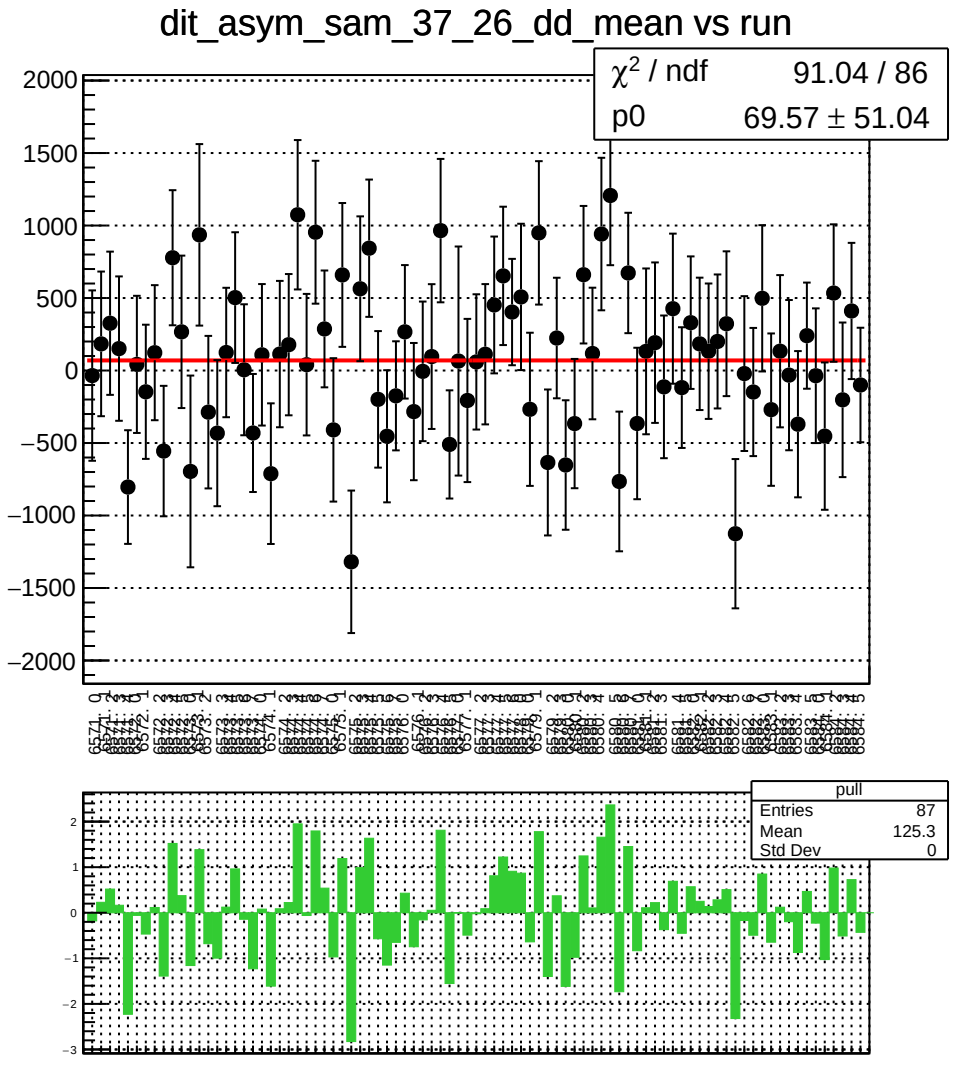

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 1.369e+04 / 86
p0 119.1 ± 0.09207
140
130
120
110
100

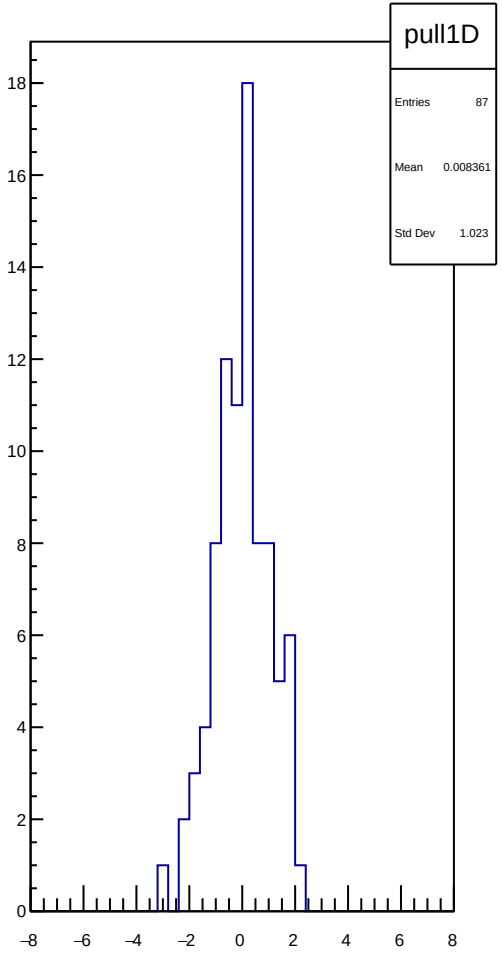

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 79.22 / 86
p0 69.72 ± 46.15
pull
Entries 87
Mean −75.96
Std Dev 0
pull1D
Entries 87
Mean 0.008107
Std Dev 0.9542

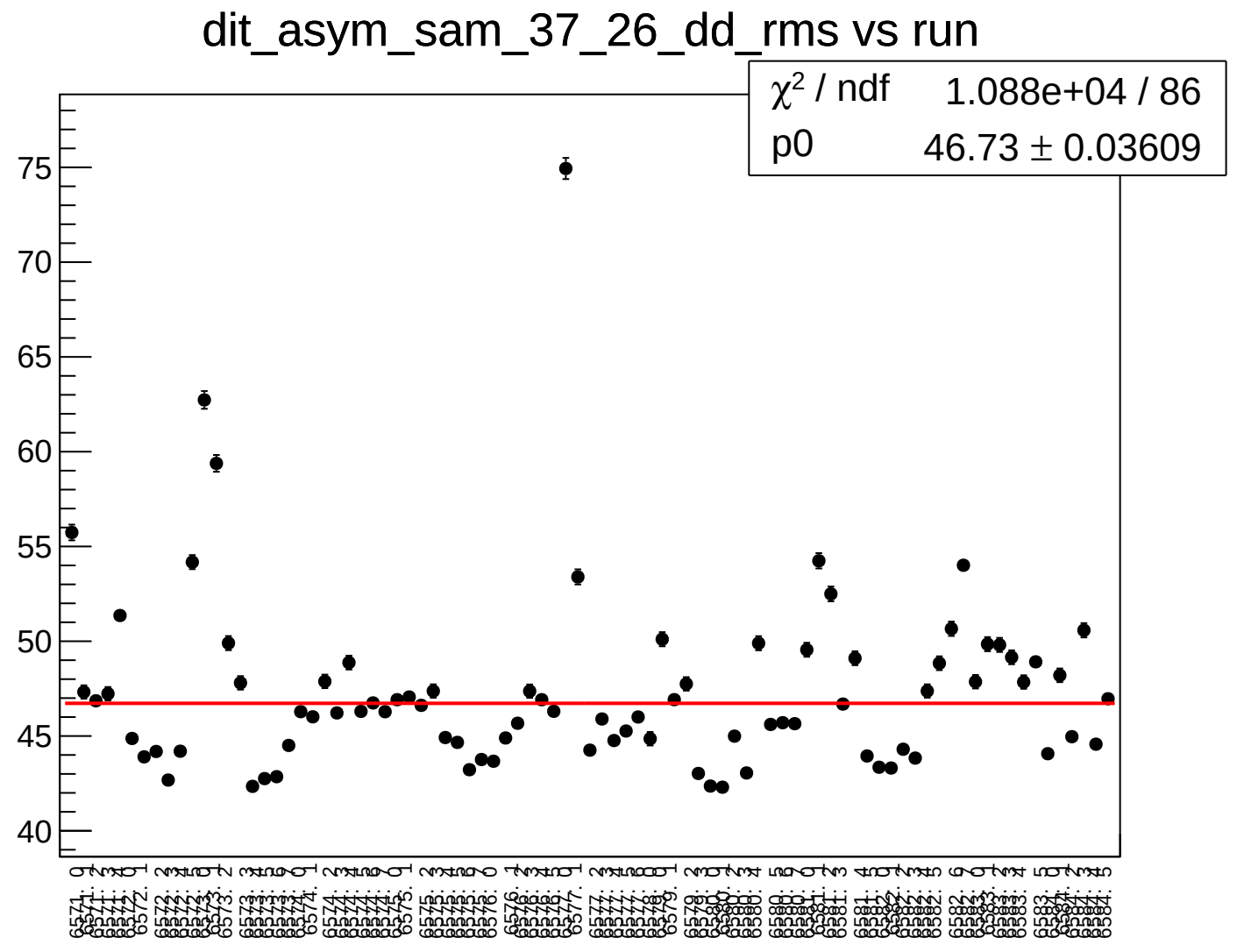

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8204 / 86
p0 42.28 ± 0.03263
75
70
65
60
55
50
45
40
35

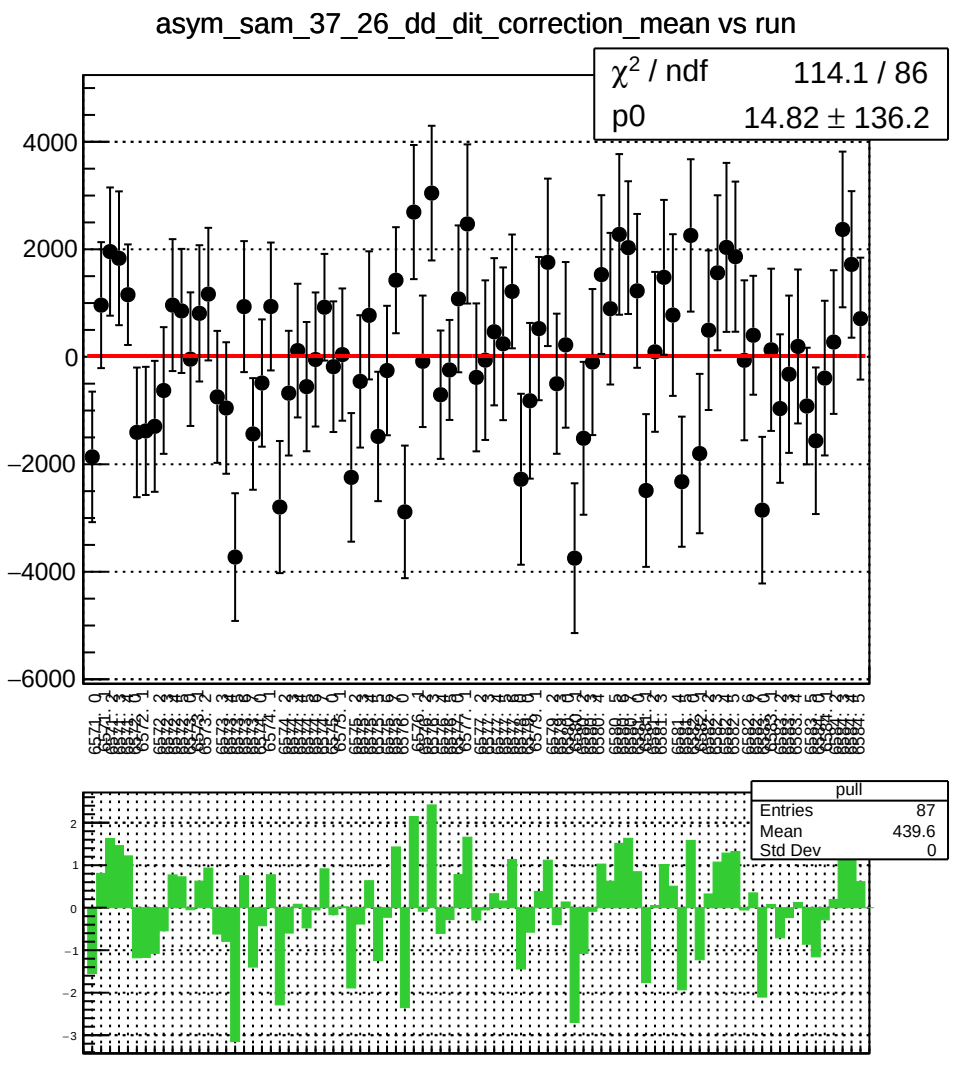

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 120.7 / 86
p0 5.06 ± 130.2
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 253.6
Std Dev 0
pull1D
Entries 87
Mean 0.01015
Std Dev 1.178
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

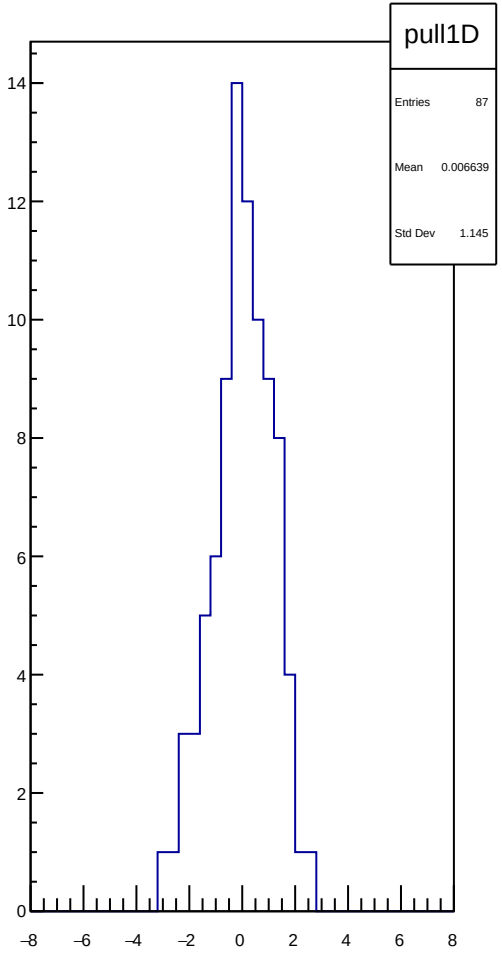

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.369e+04 / 86
p0 119.1 ± 0.09207
140
130
120
110
100

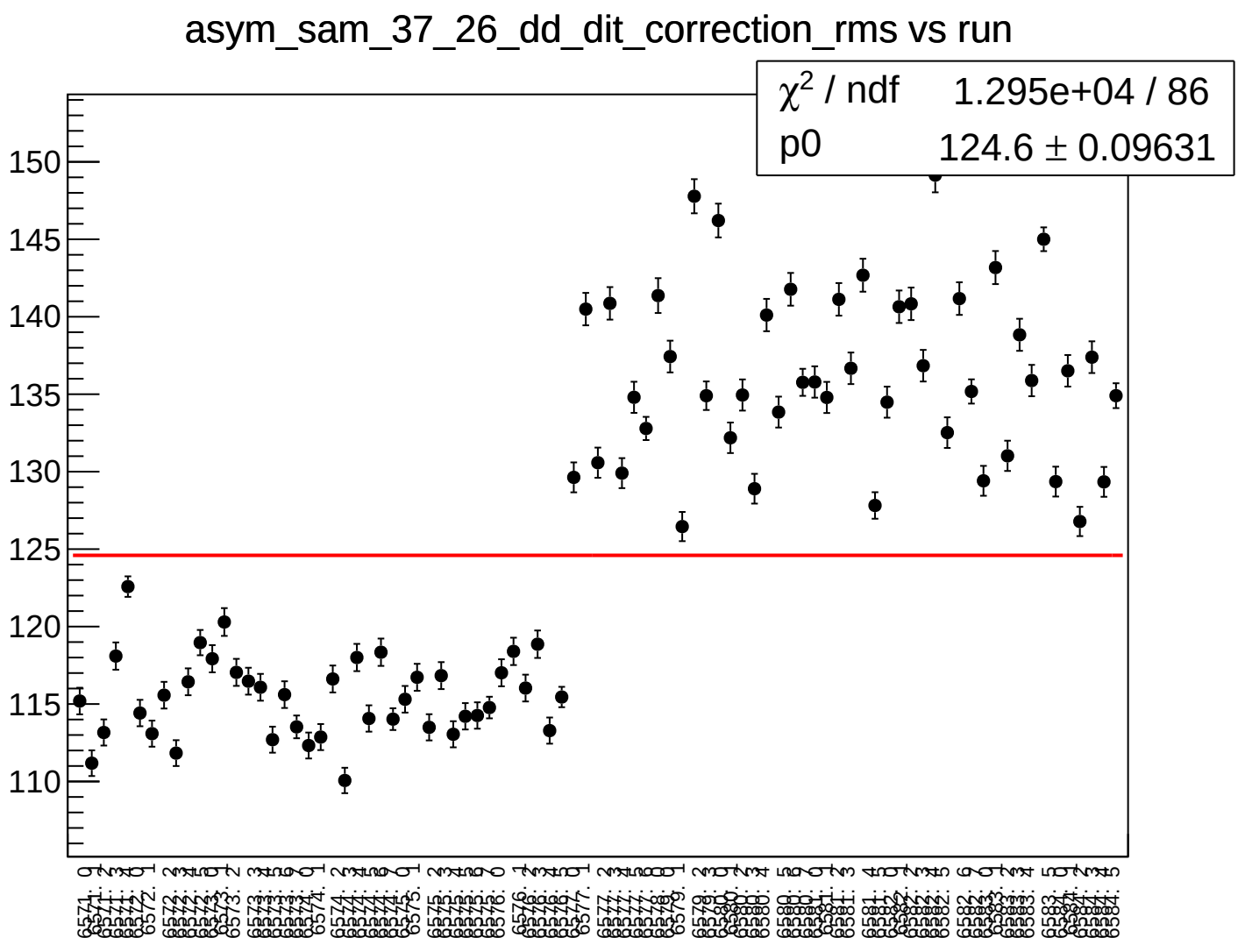

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 91.04 / 86
p0 69.57 ± 51.04
pull
Entries 87
Mean 125.3
Std Dev 0

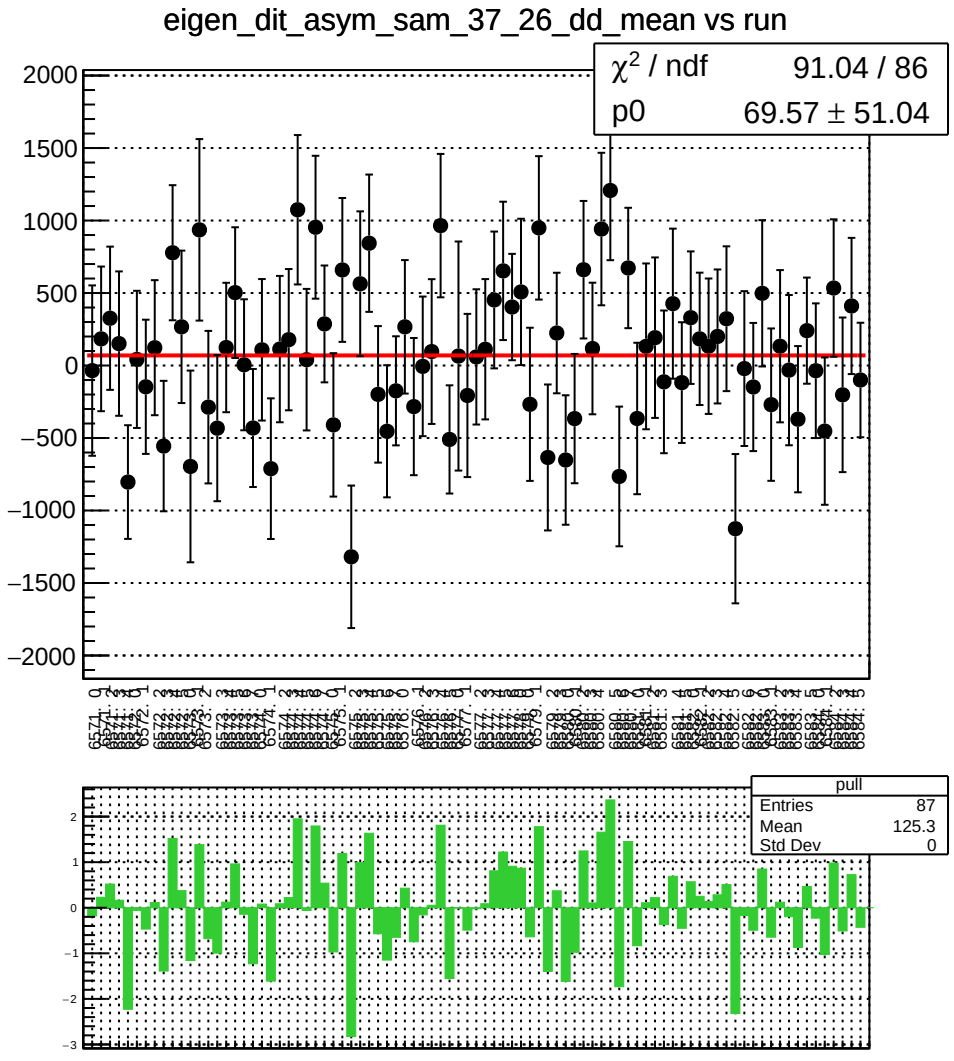

pull1D
Entries 87
Mean 0.008361
Std Dev 1.023

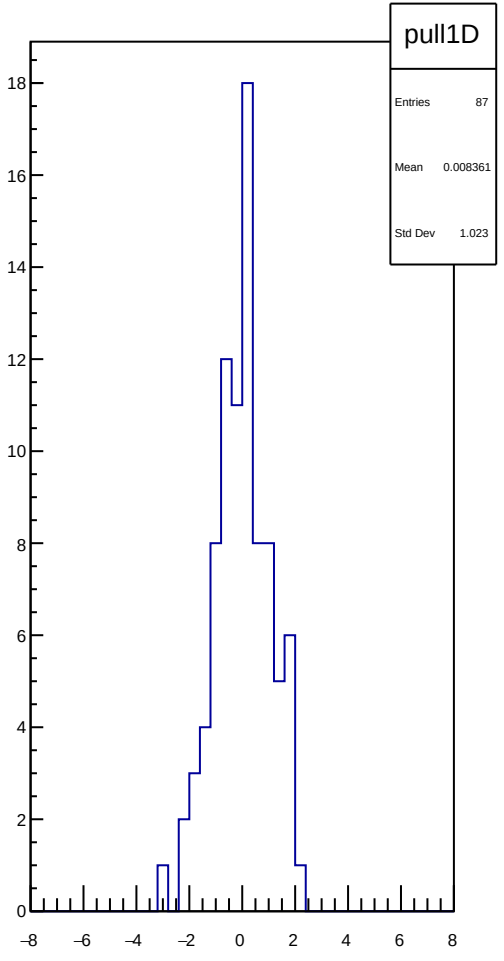

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.088e+04 / 86
p0 46.73 ± 0.03609
75
70
65
60
55
50
45
40

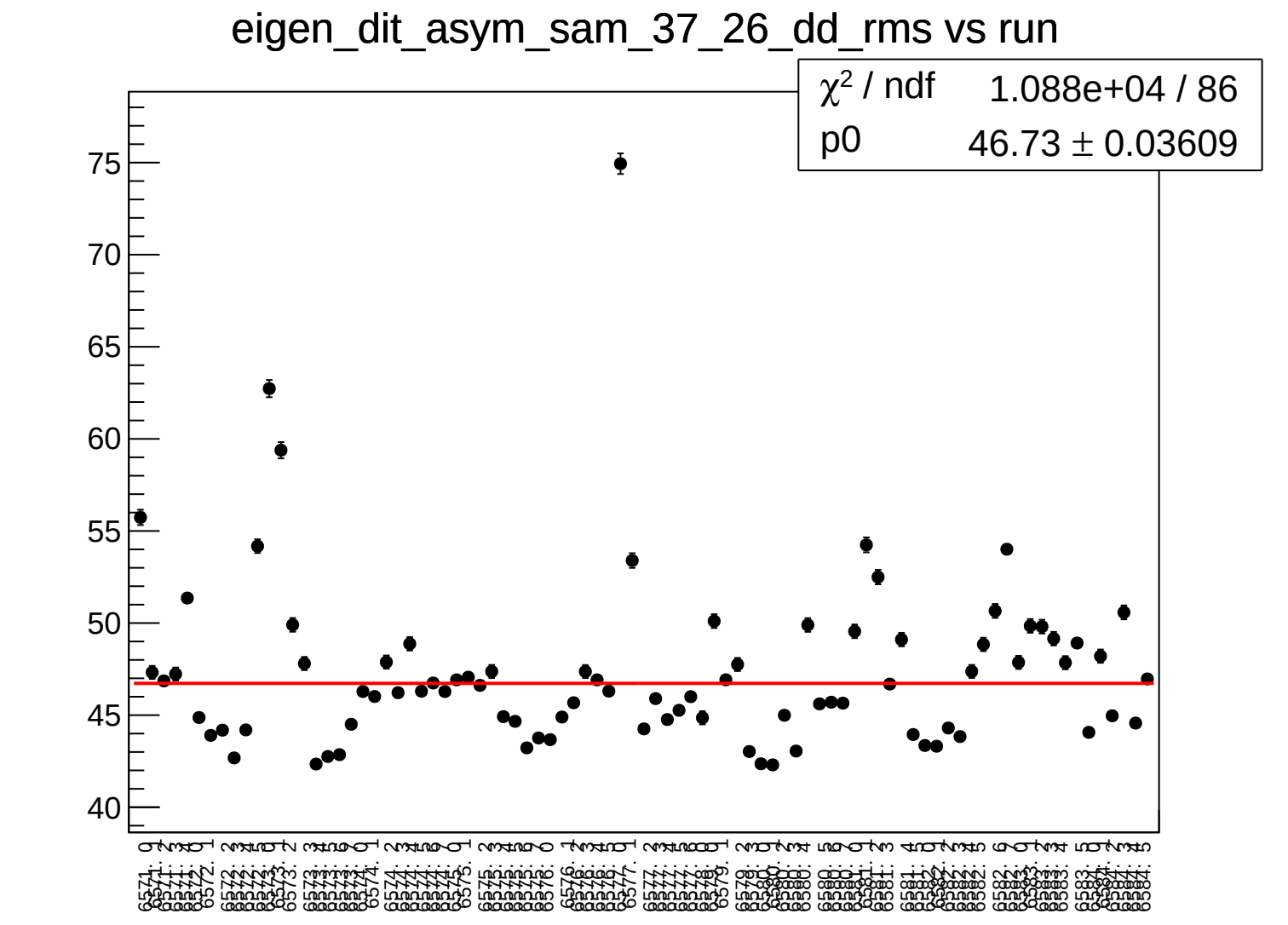

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 114.1 / 86
p0 14.82 ± 136.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 439.6
Std Dev 0
2
1
0
−1
−2
−3

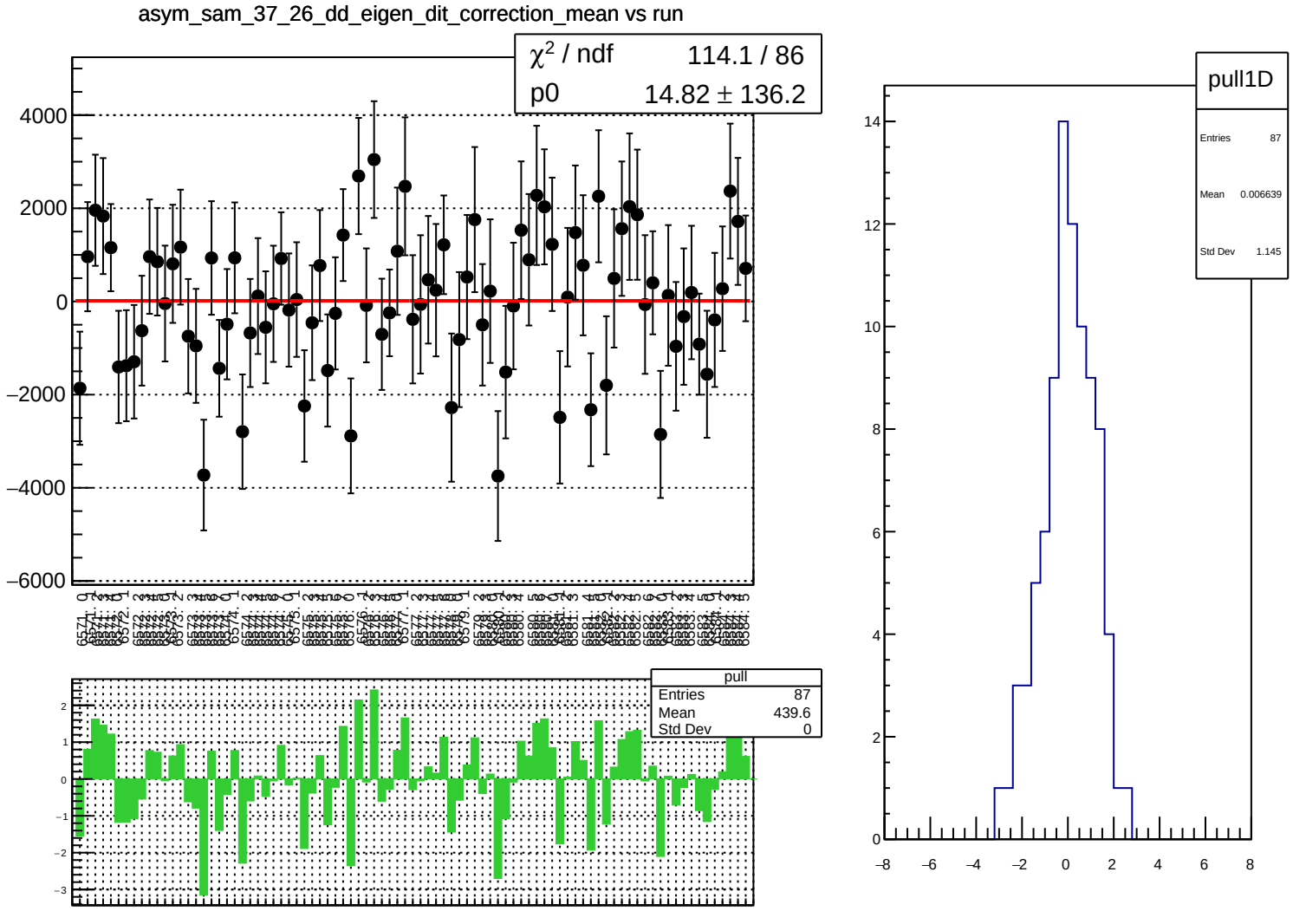

pull1D
Entries 87
Mean 0.006639
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

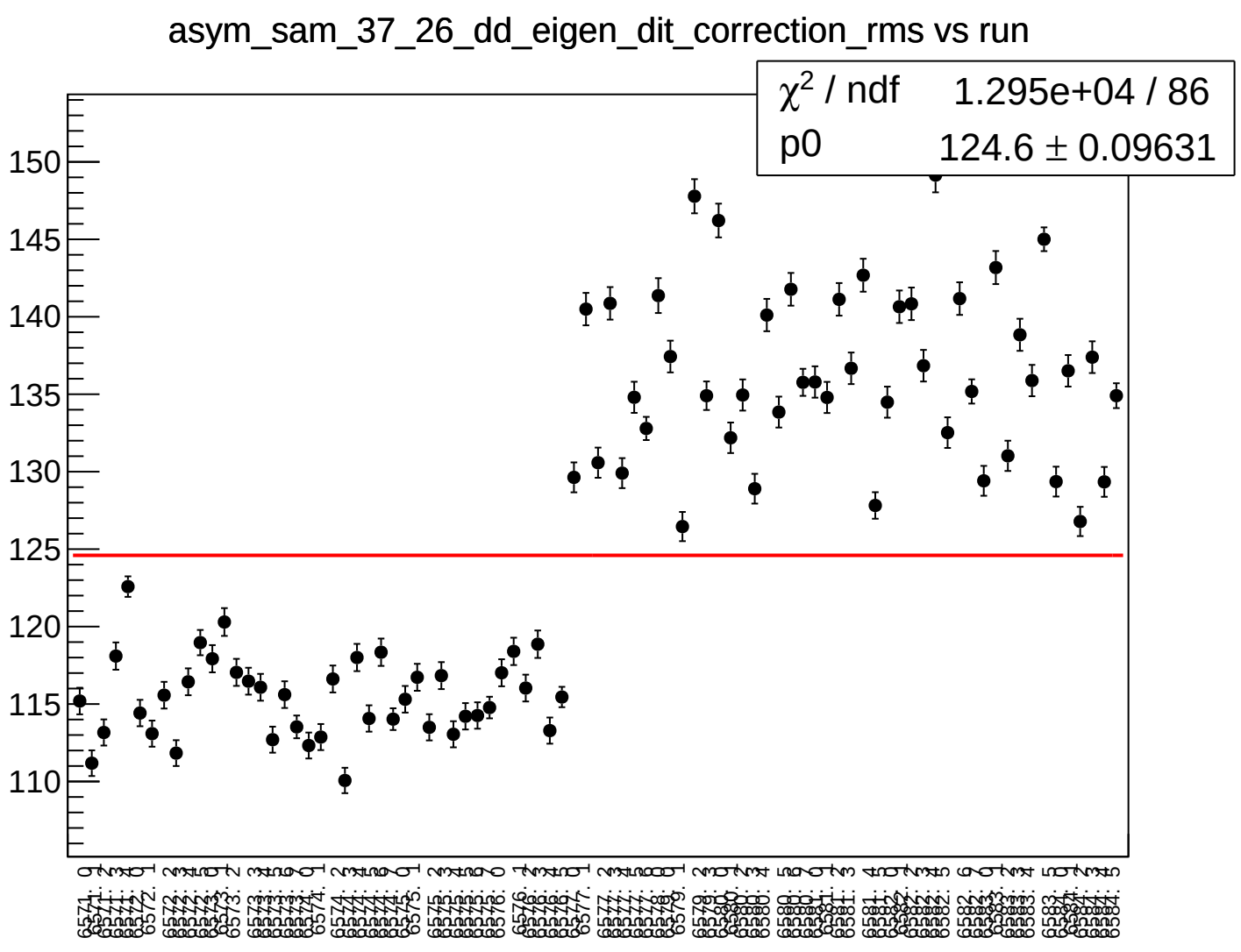

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.295e+04 / 86
p0 124.6 ± 0.09631
150
145
140
135
130
125
120
115
110

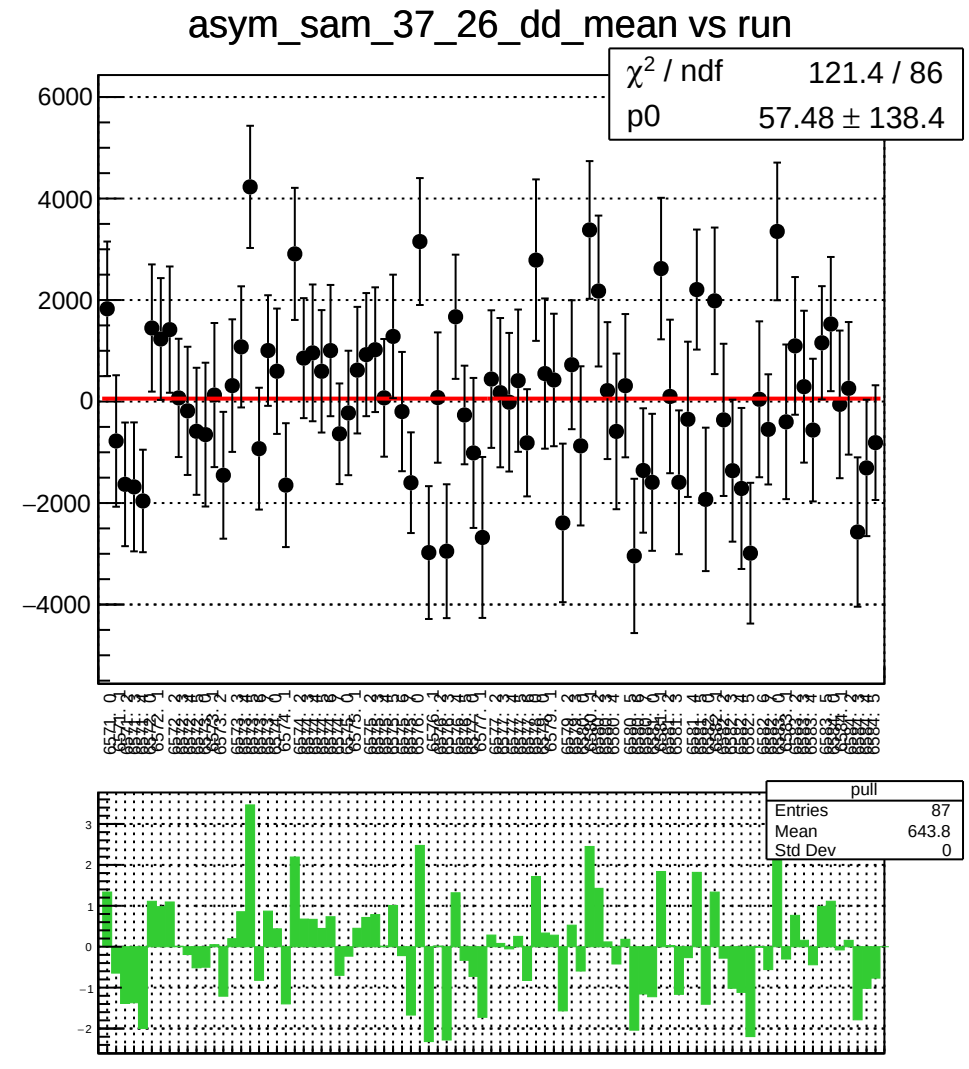

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 91.04 / 86
p0 69.57 ± 51.04
pull
Entries 87
Mean 125.3
Std Dev 0

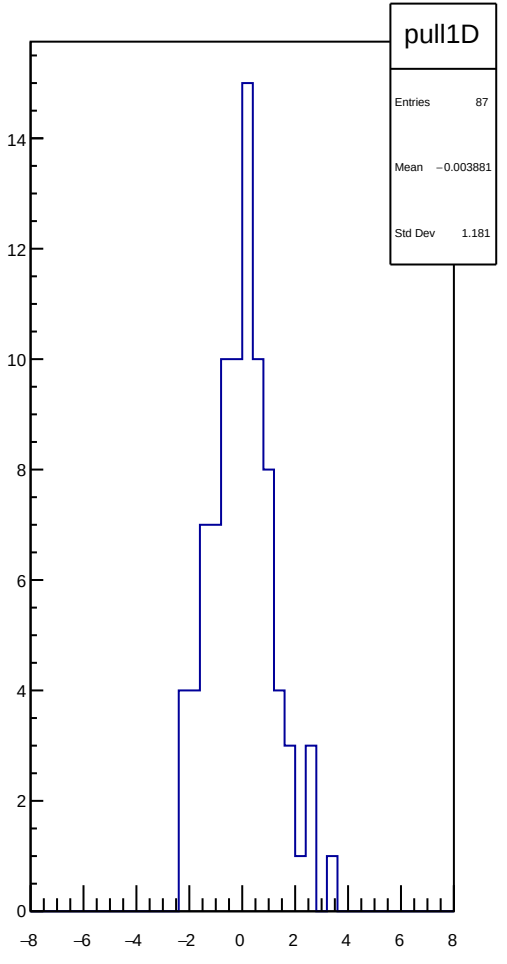

pull1D
Entries 87
Mean 0.008361
Std Dev 1.023

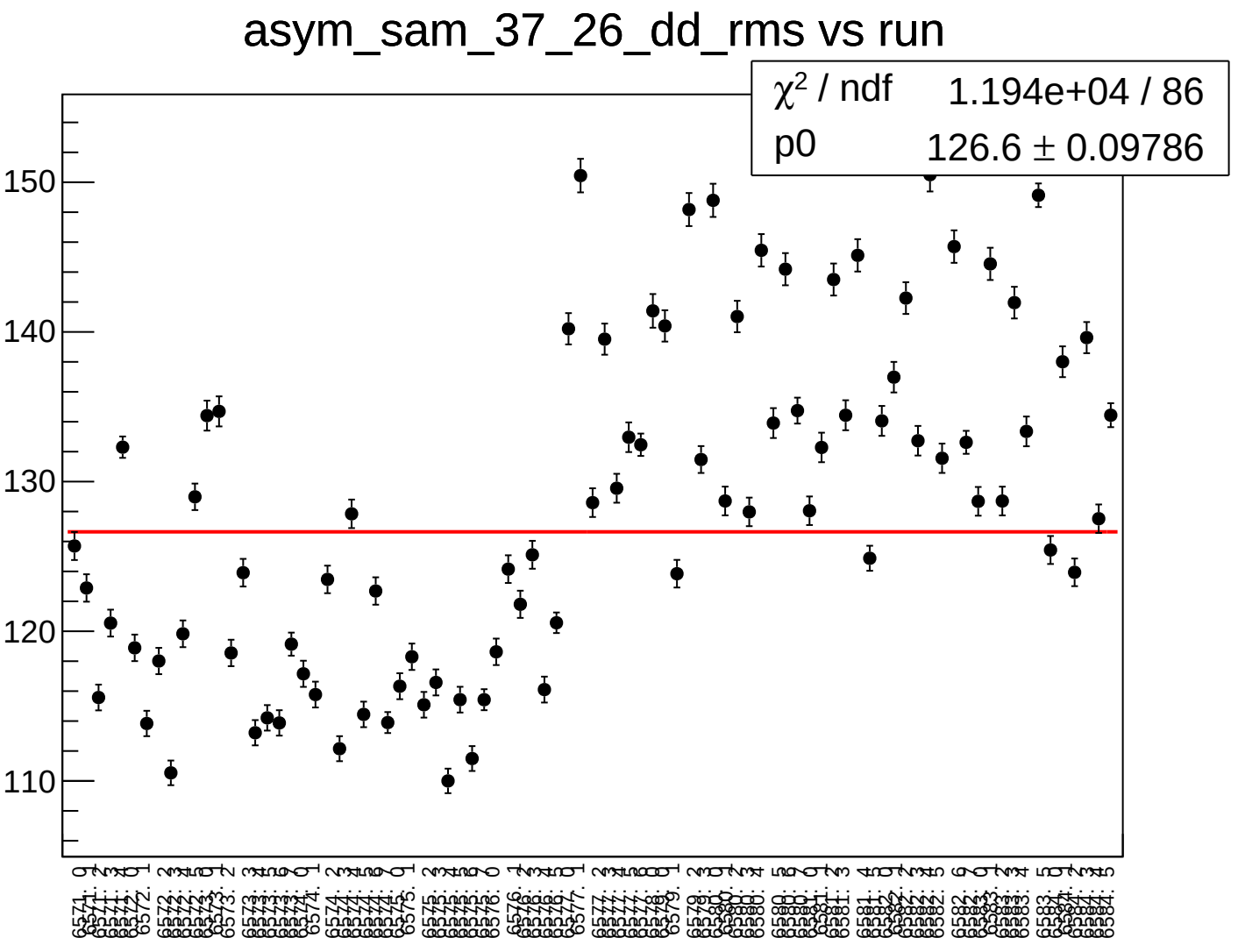

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.088e+04 / 86
p0 46.73 ± 0.03609
75
70
65
60
55
50
45
40

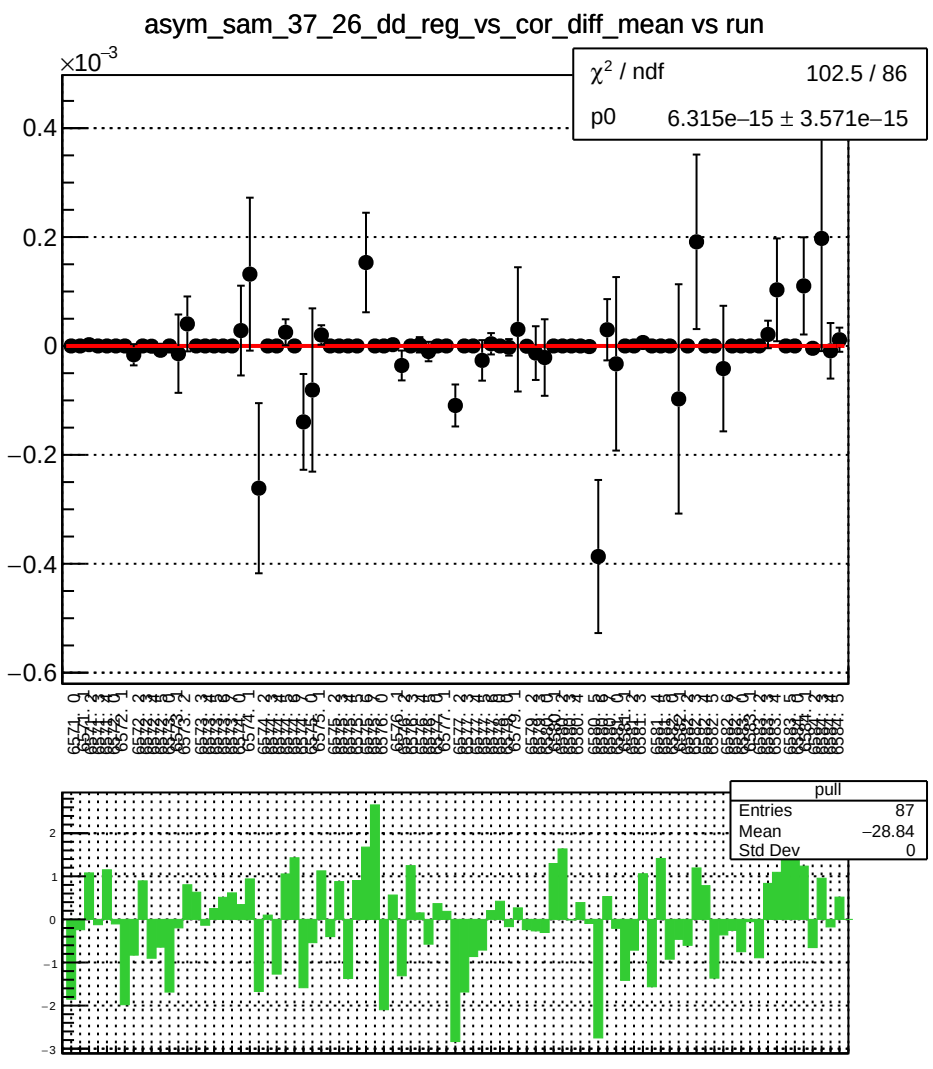

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 114.1 / 86
p0 14.82 ± 136.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 439.6
Std Dev 0
pull1D
Entries 87
Mean 0.006639
Std Dev 1.145

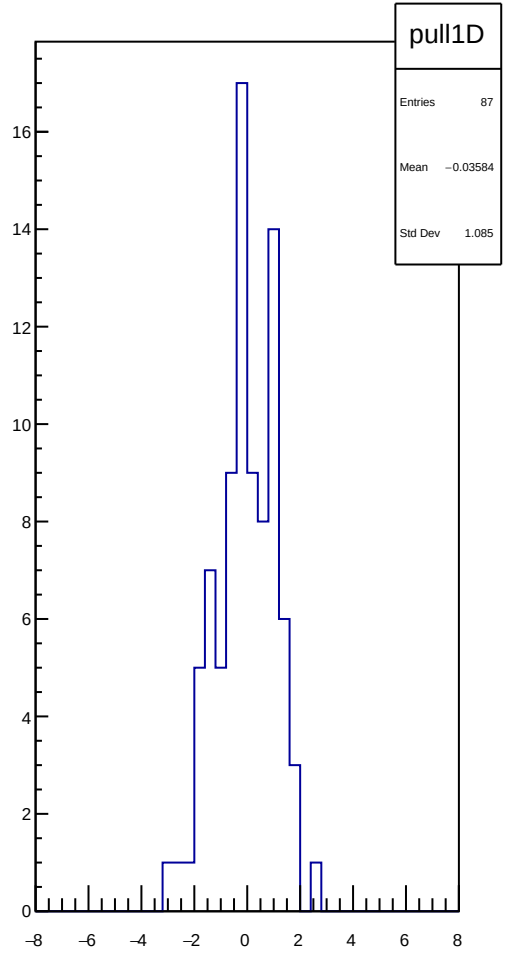

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.295e+04 / 86
p0 124.6 ± 0.09631
150
145
140
135
130
125
120
115
110

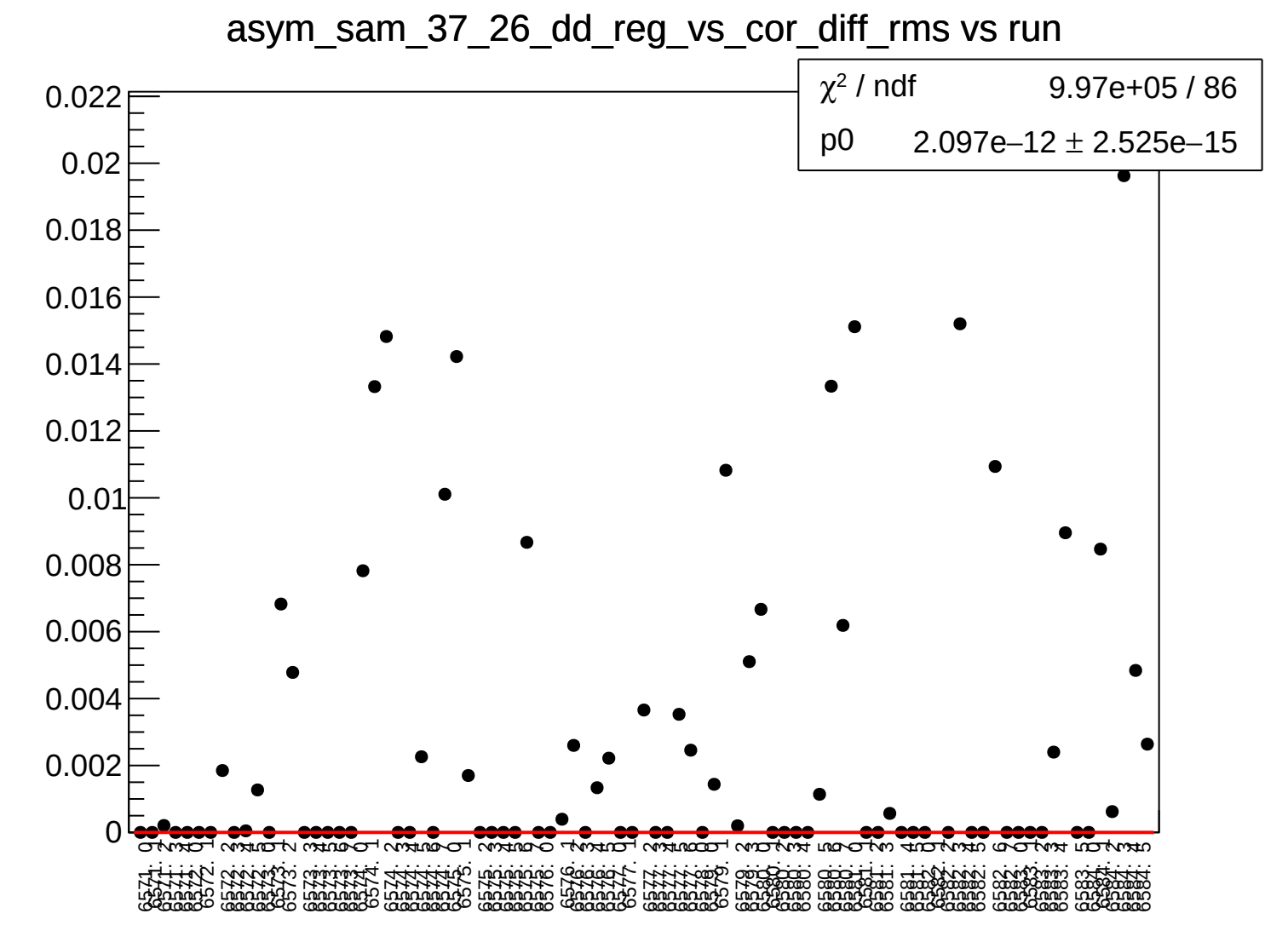

asym_sam_37_26_dd_mean vs run
χ² / ndf 121.4 / 86
p0 57.48 ± 138.4
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 643.8
Std Dev 0
3
2
1
0
−1
−2

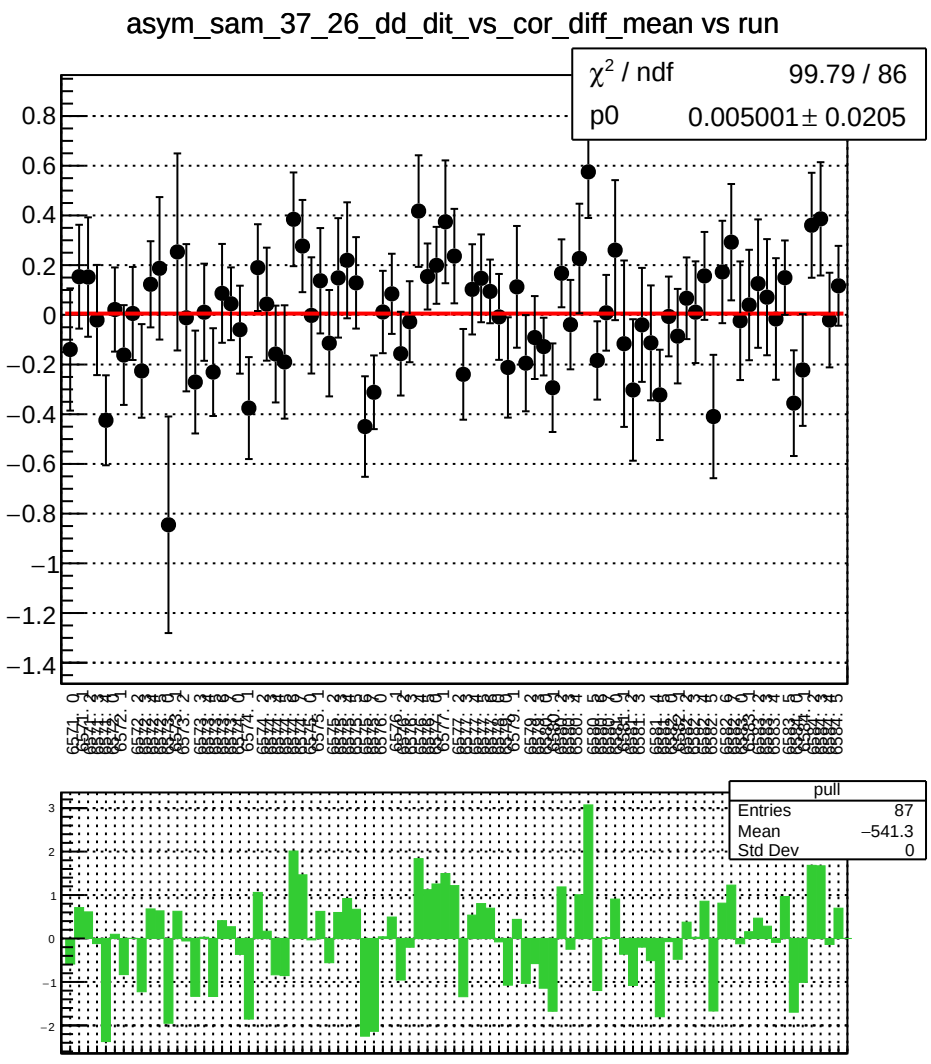

pull1D
Entries 87
Mean −0.003881
Std Dev 1.181
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

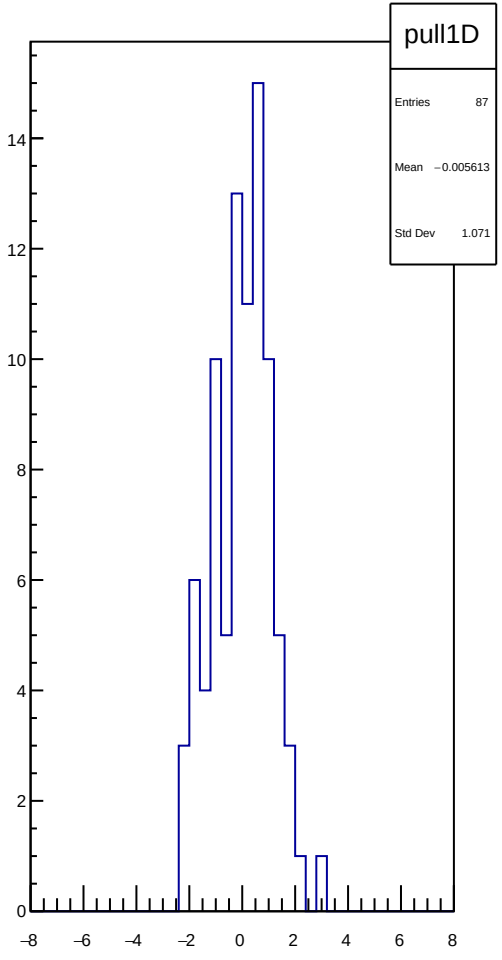

asym_sam_37_26_dd_rms vs run
χ² / ndf 1.194e+04 / 86
p0 126.6 ± 0.09786
150
140
130
120
110

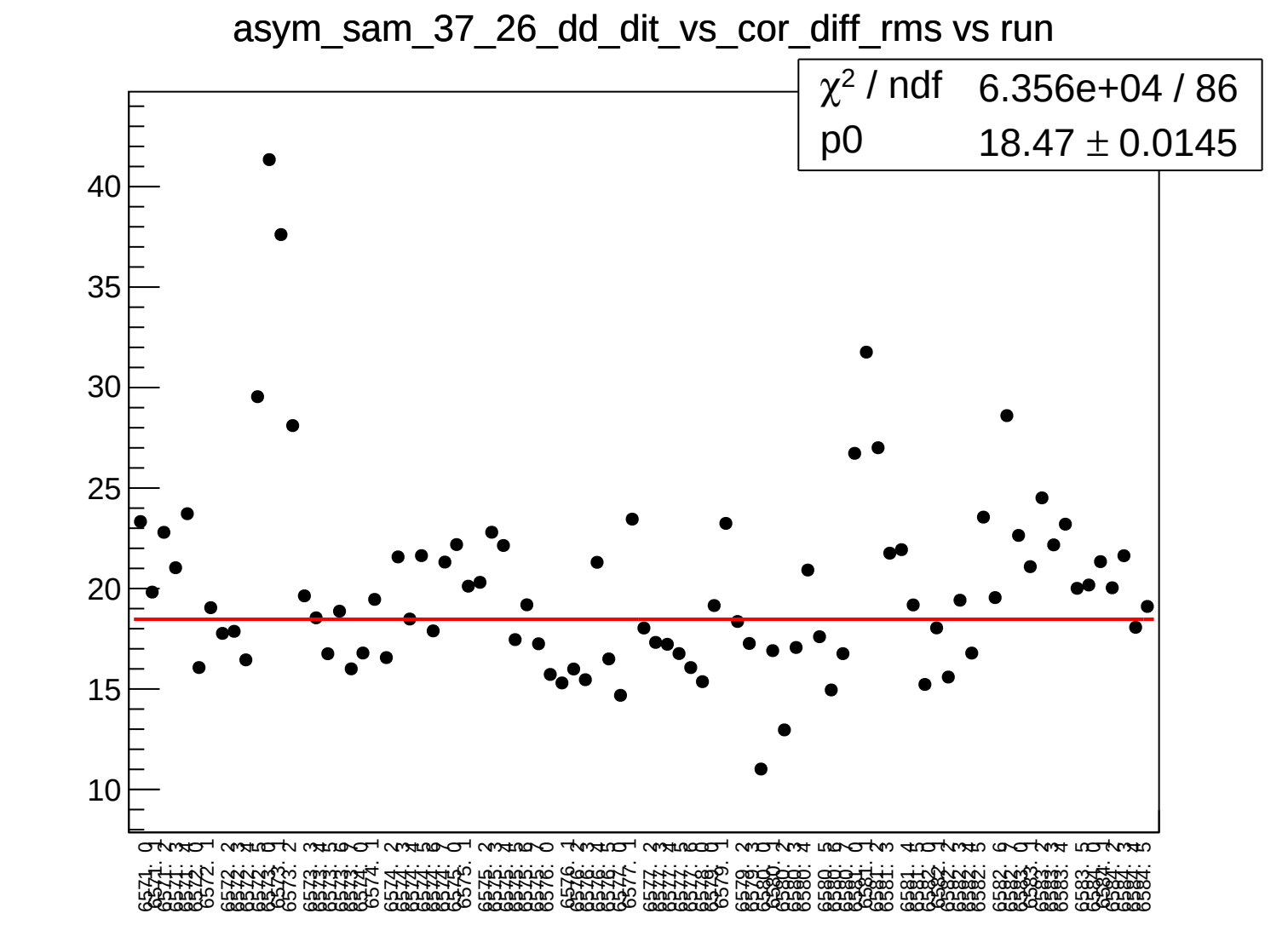

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 102.5 / 86
p0 6.315e−15 ± 3.571e−15
pull
Entries 87
Mean −28.84
Std Dev 0

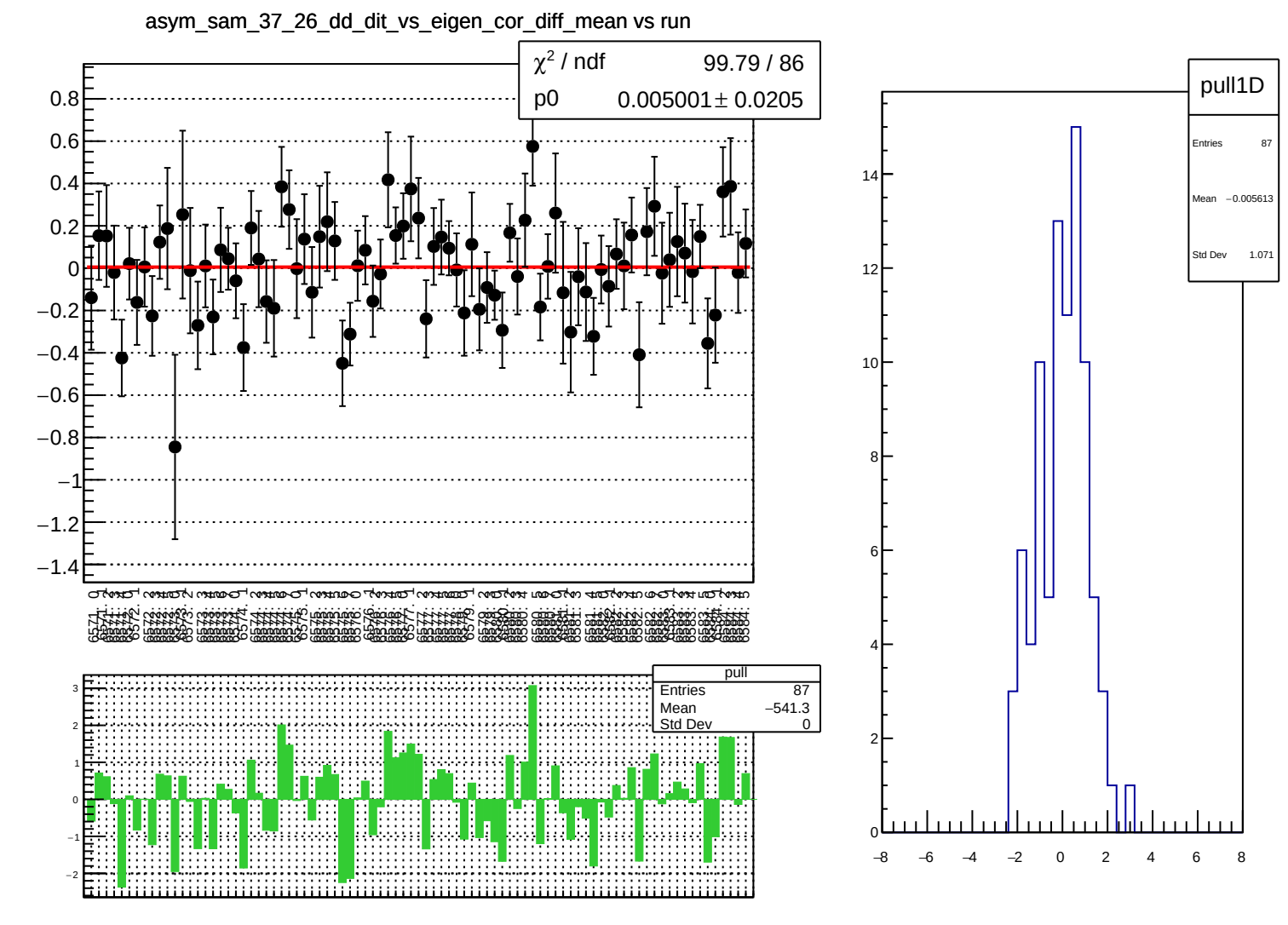

pull1D
Entries 87
Mean −0.03584
Std Dev 1.085

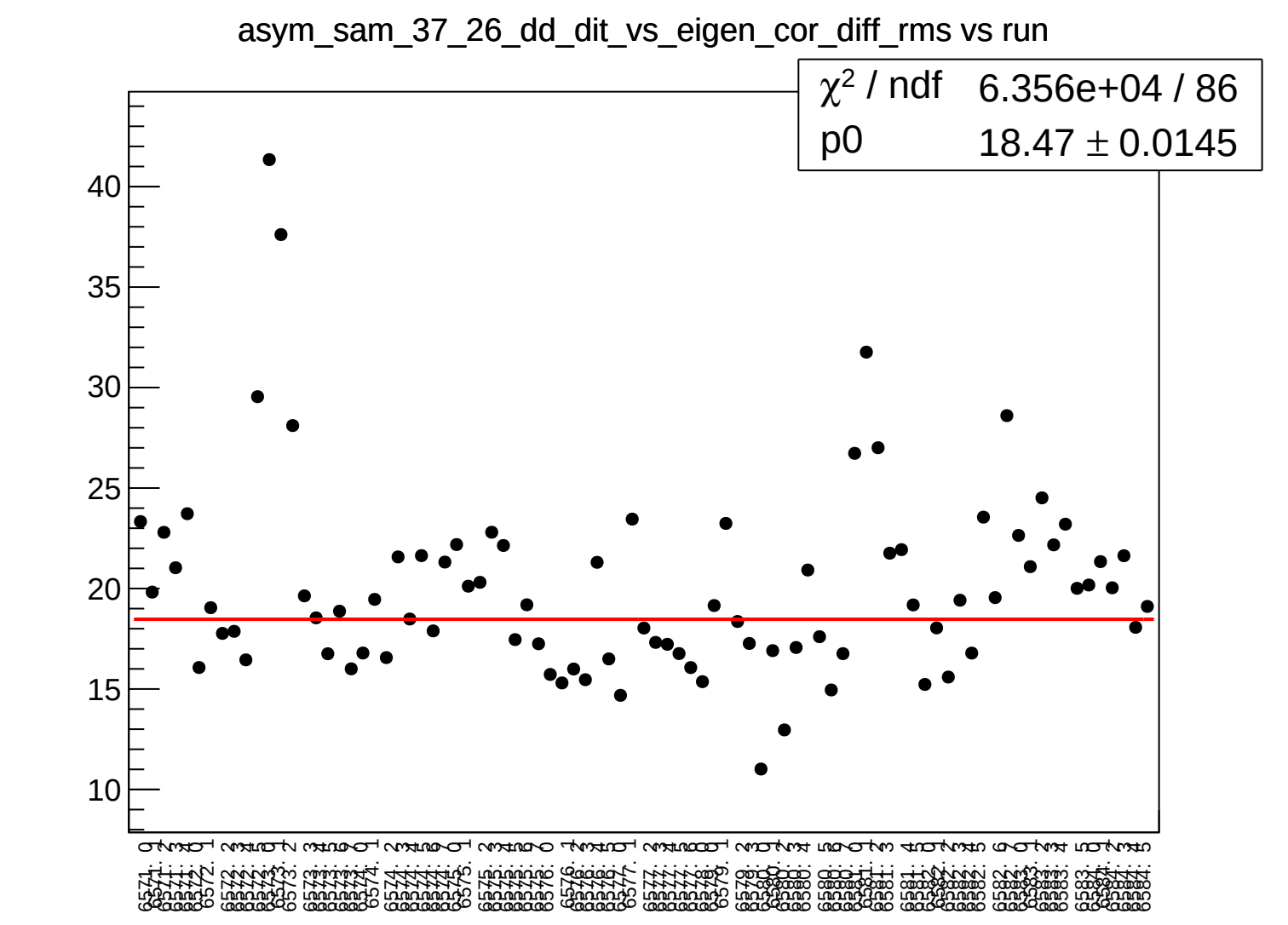

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.97e+05 / 86
p0 2.097e−12 ± 2.525e−15
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

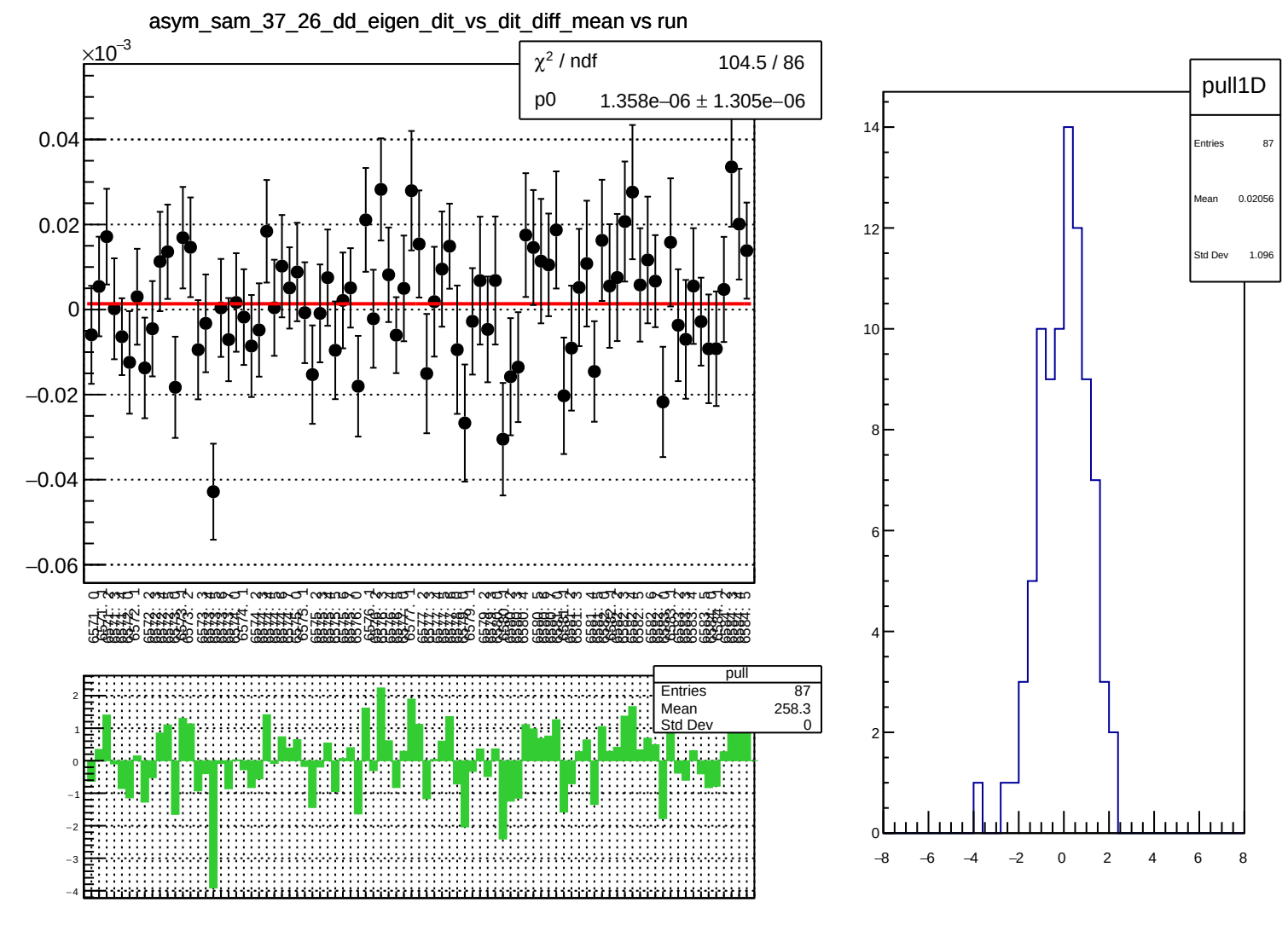

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.79 / 86
p0 0.005001 ± 0.0205
pull
Entries 87
Mean −541.3
Std Dev 0

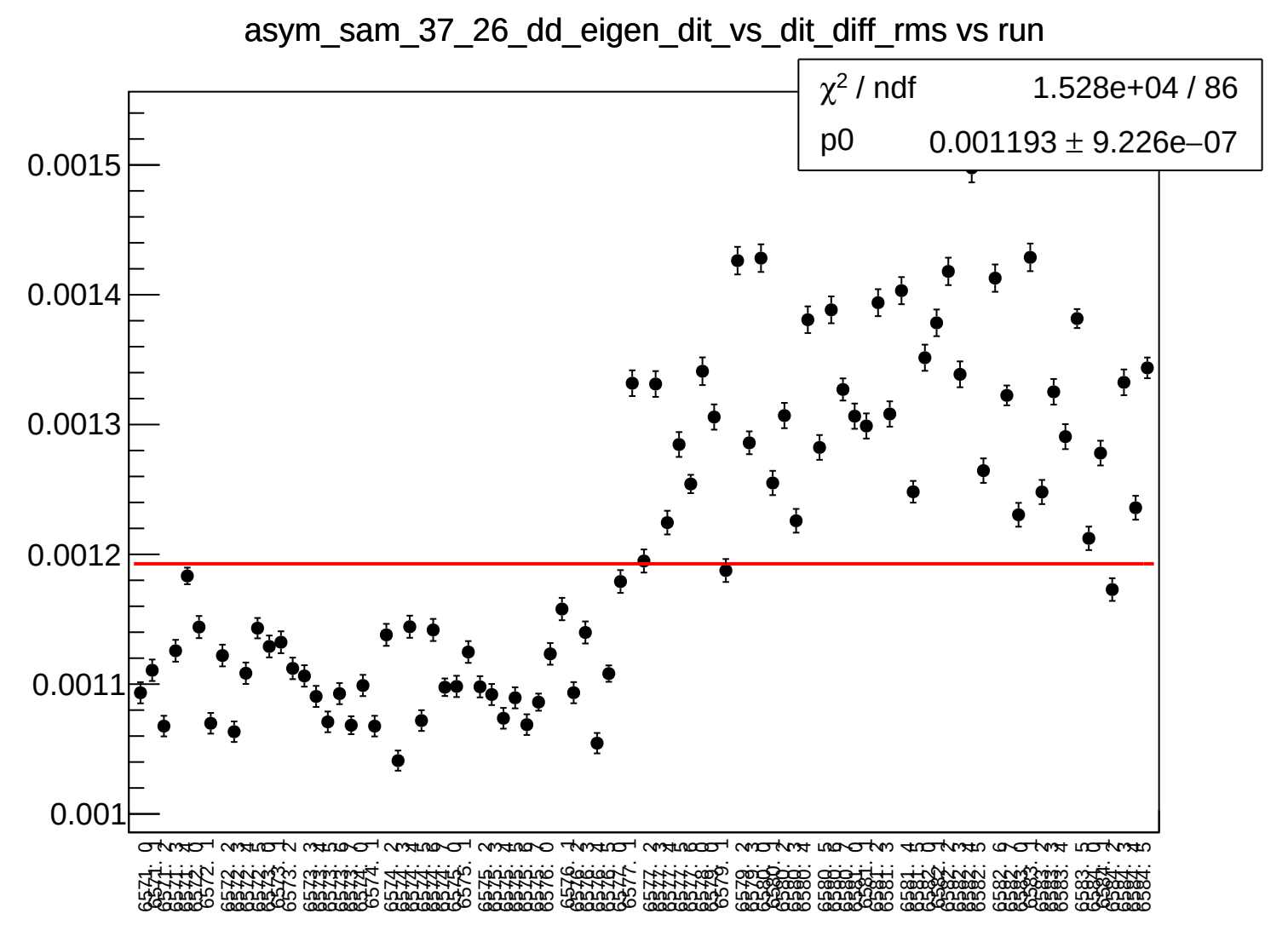

pull1D
Entries 87
Mean −0.005613
Std Dev 1.071

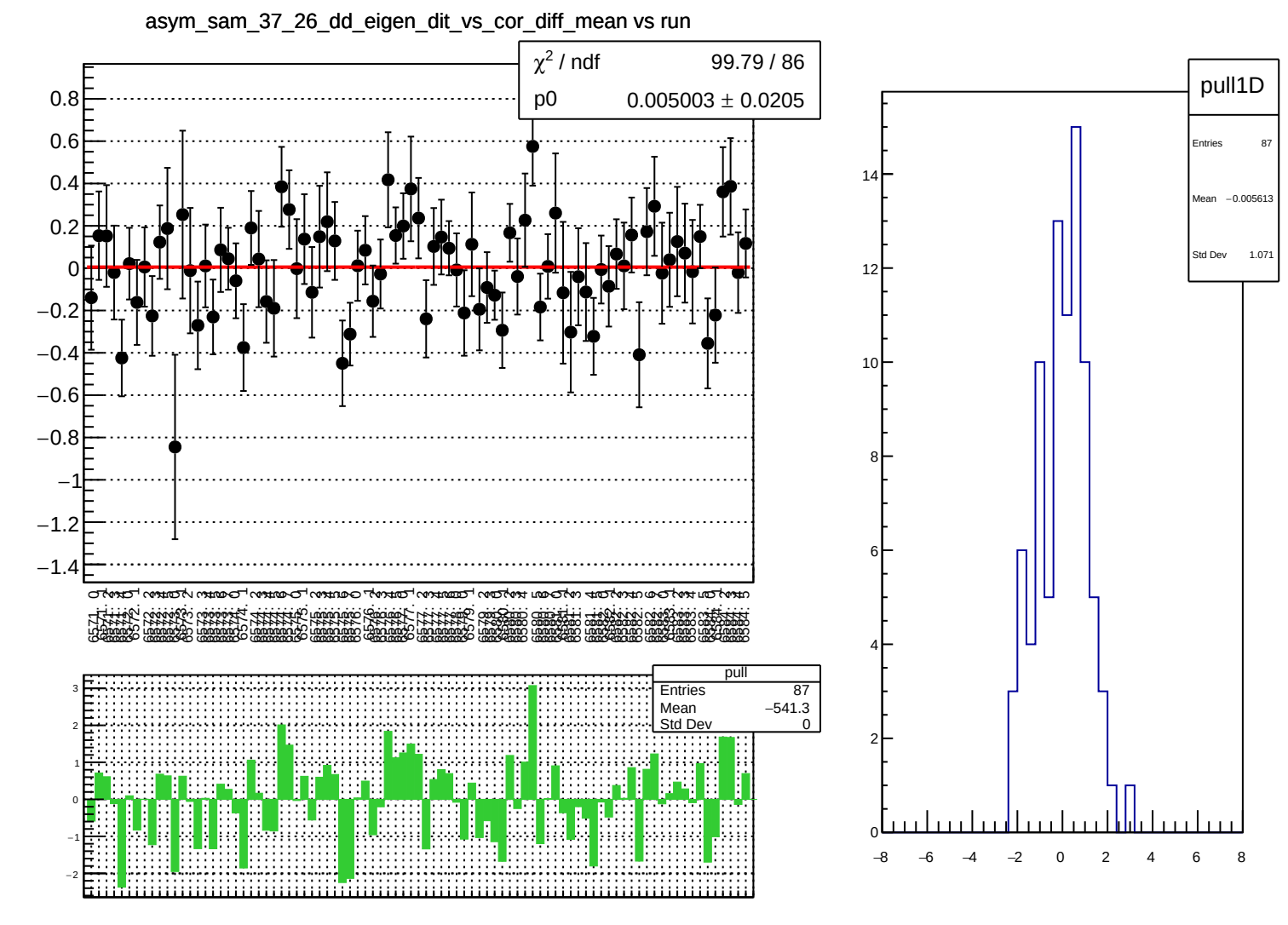

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.356e+04 / 86
p0 18.47 ± 0.0145
40
35
30
25
20
15
10

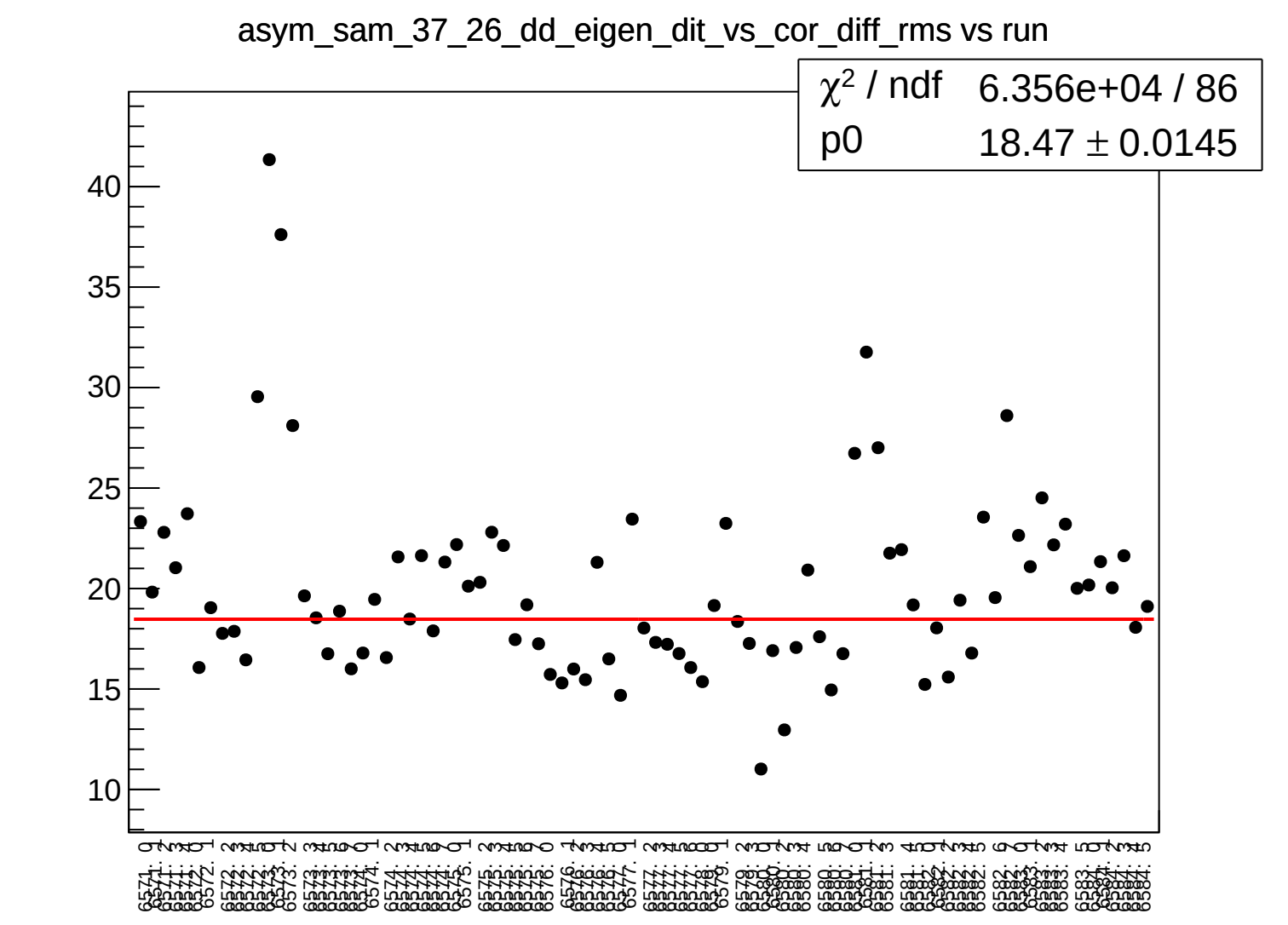

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.79 / 86
p0 0.005001 ± 0.0205
pull
Entries 87
Mean −541.3
Std Dev 0
pull1D
Entries 87
Mean −0.005613
Std Dev 1.071

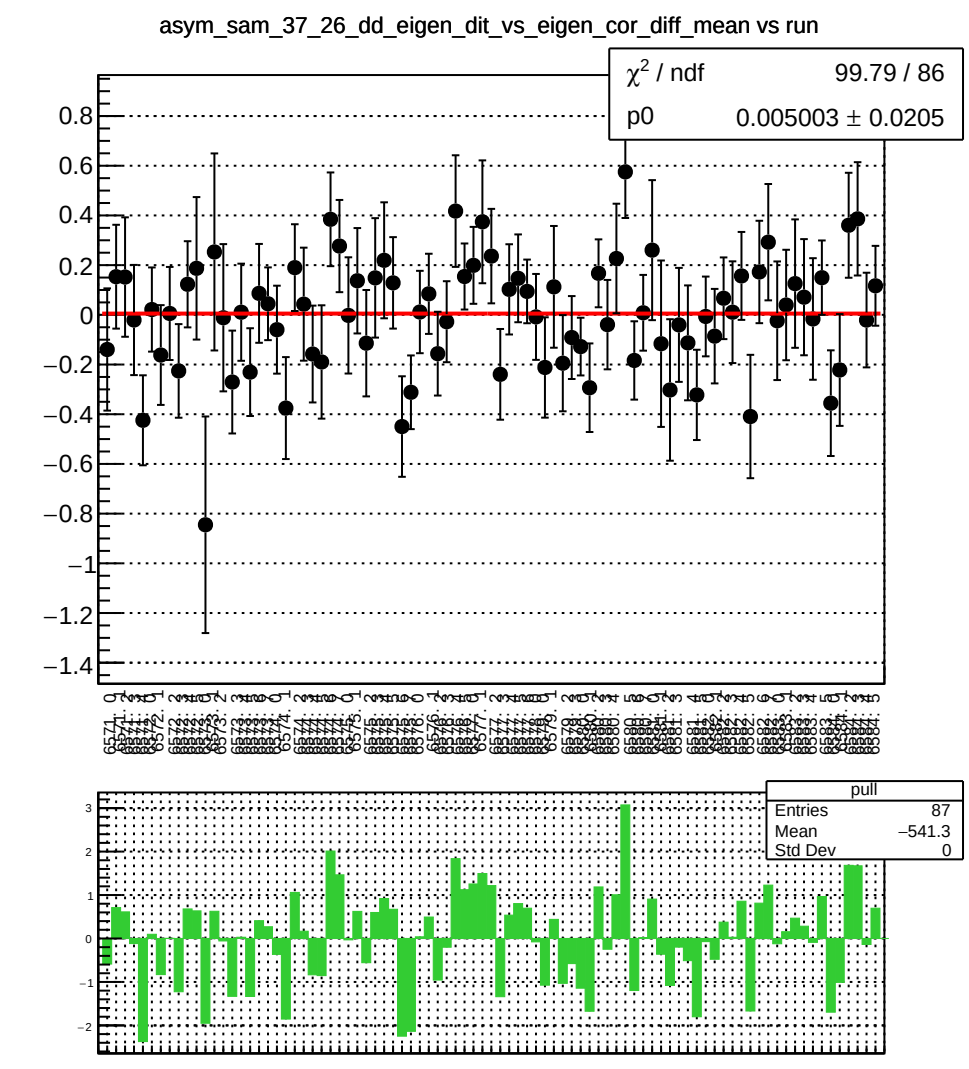

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.356e+04 / 86
p0 18.47 ± 0.0145
40
35
30
25
20
15
10

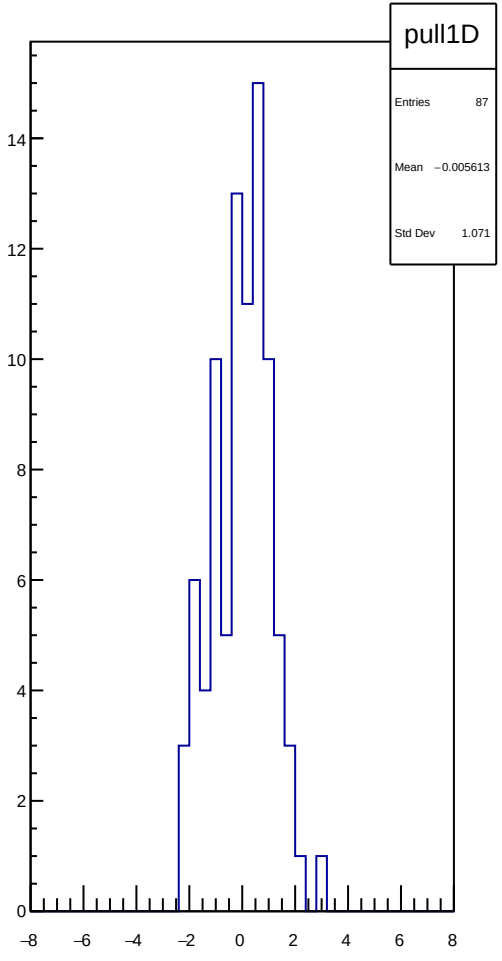

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 104.5 / 86
p0 1.358e−06 ± 1.305e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean 258.3
Std Dev 0
pull1D
Entries 87
Mean 0.02056
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

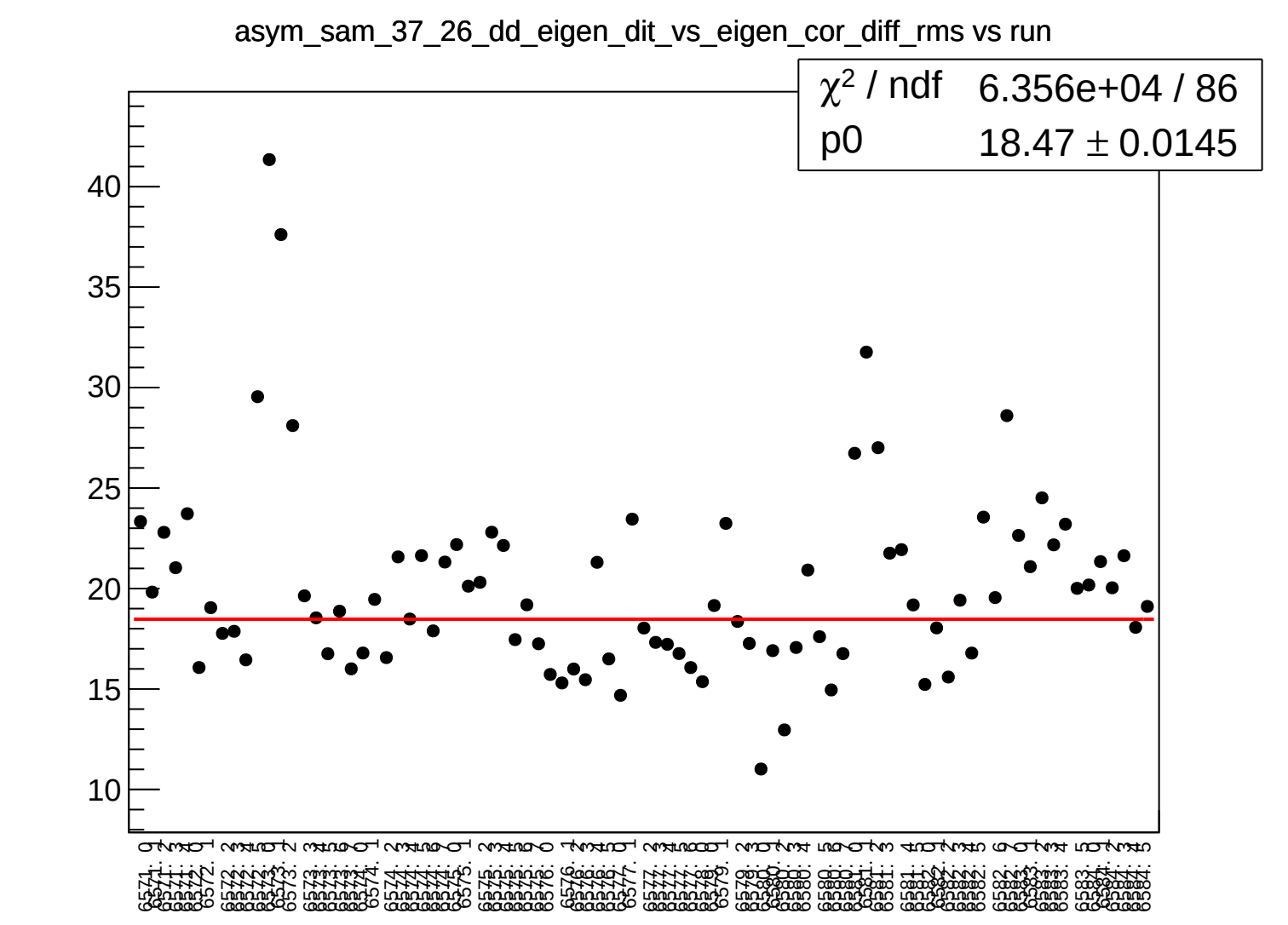

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.528e+04 / 86
p0 0.001193 ± 9.226e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001

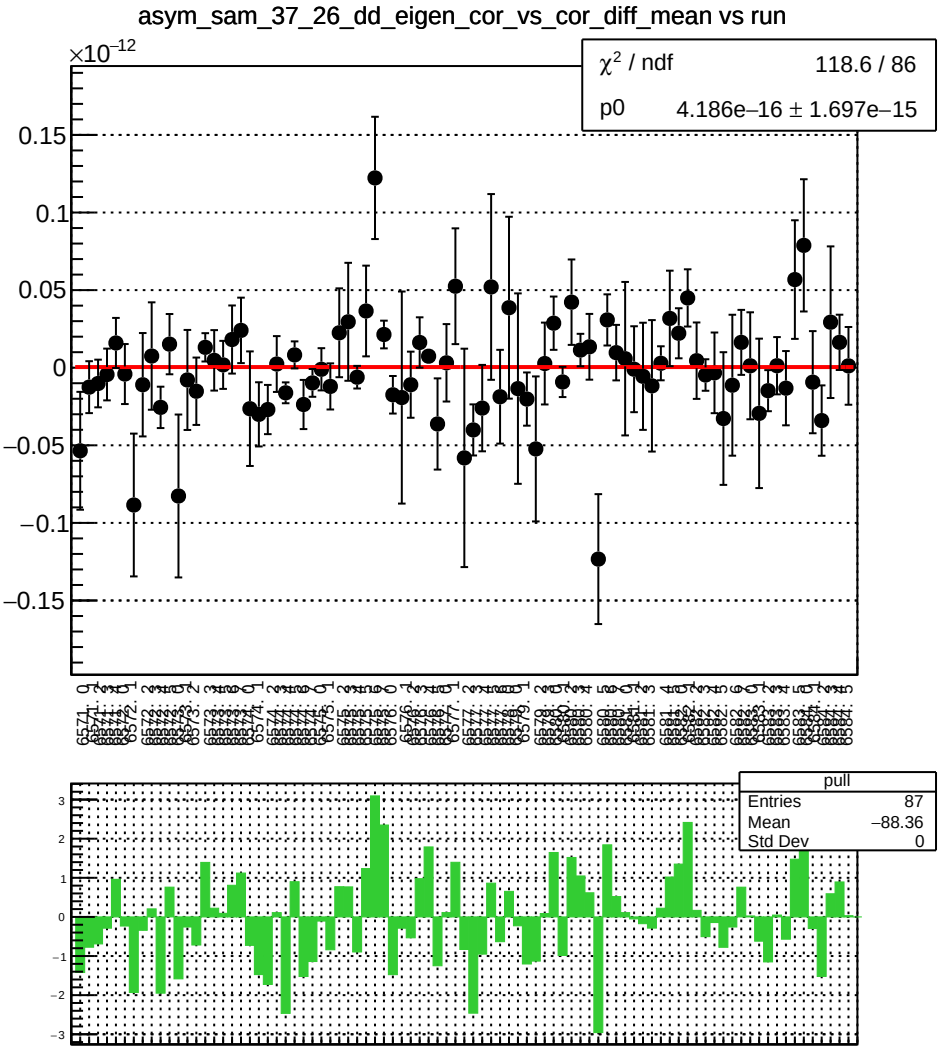

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.79 / 86
p0 0.005003 ± 0.0205
pull
Entries 87
Mean −541.3
Std Dev 0
pull1D
Entries 87
Mean −0.005613
Std Dev 1.071

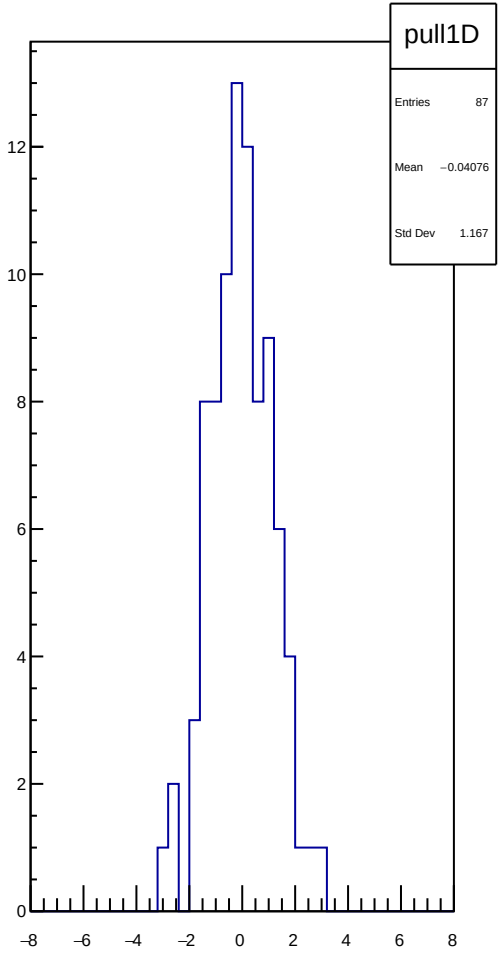

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.356e+04 / 86
p0 18.47 ± 0.0145
40
35
30
25
20
15
10

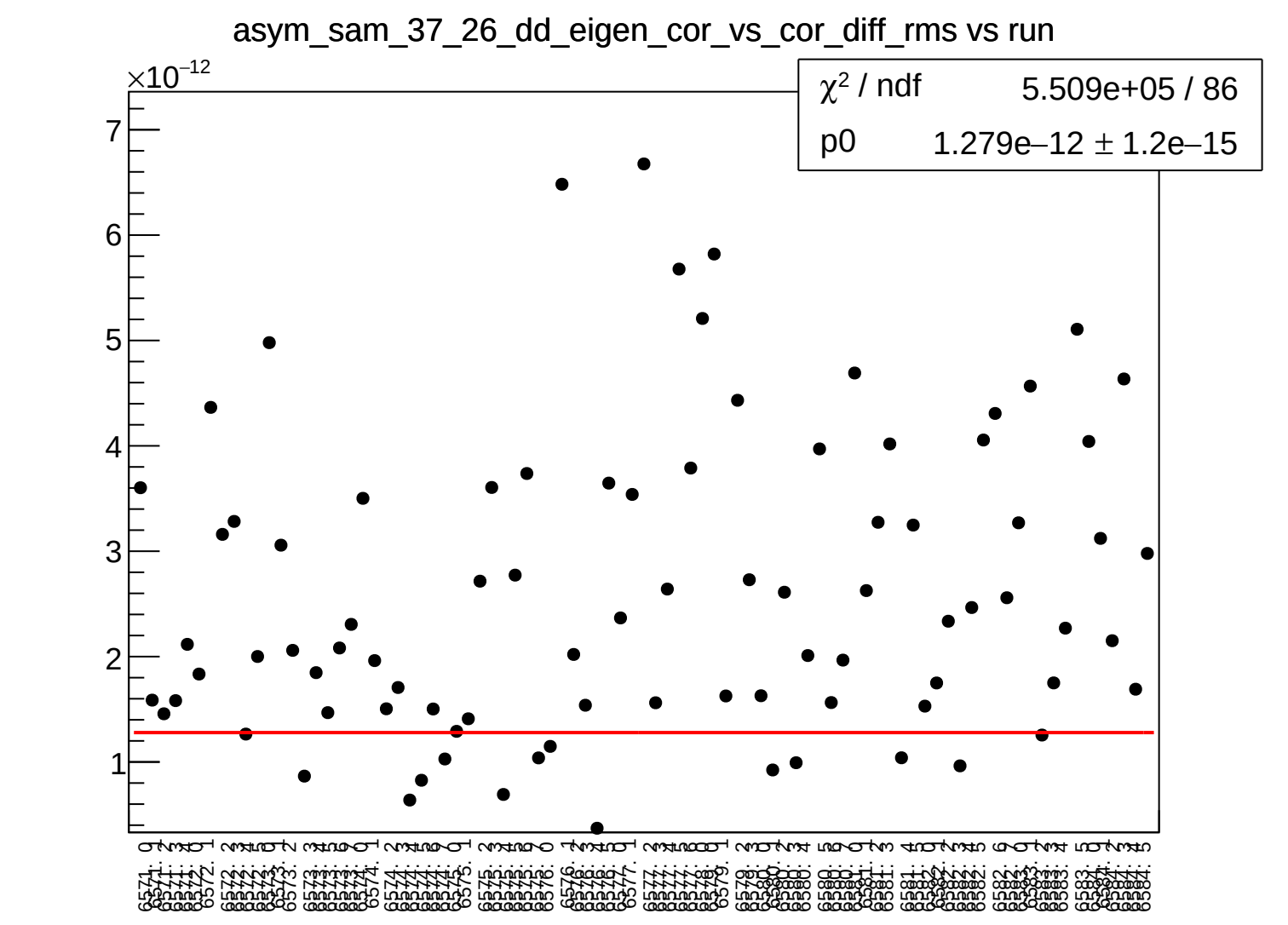

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.79 / 86
p0 0.005003 ± 0.0205
pull
Entries 87
Mean −541.3
Std Dev 0

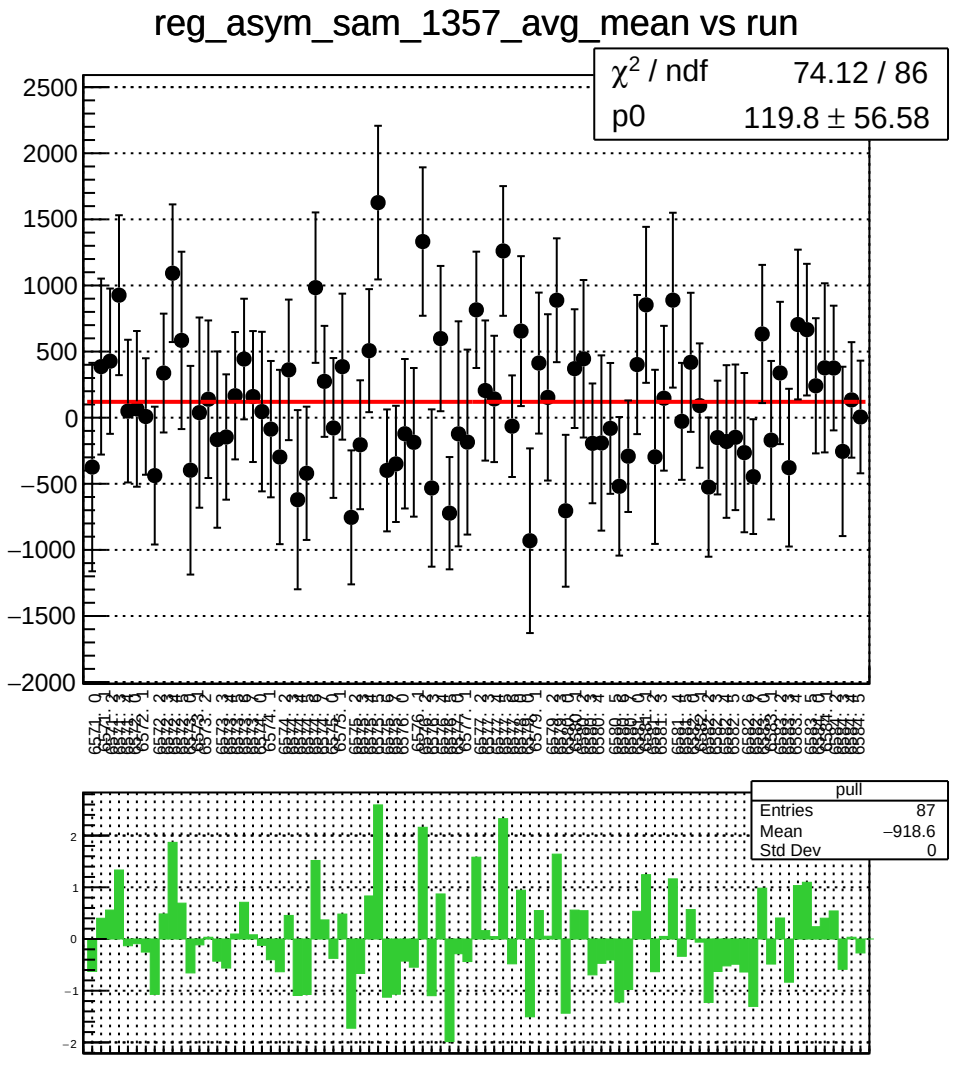

pull1D
Entries 87
Mean −0.005613
Std Dev 1.071

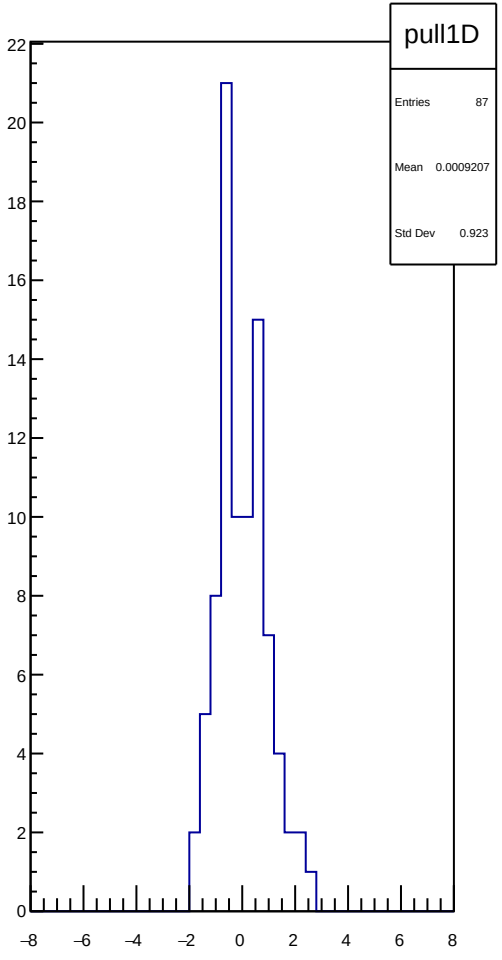

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.356e+04 / 86
p0 18.47 ± 0.0145
40
35
30
25
20
15
10

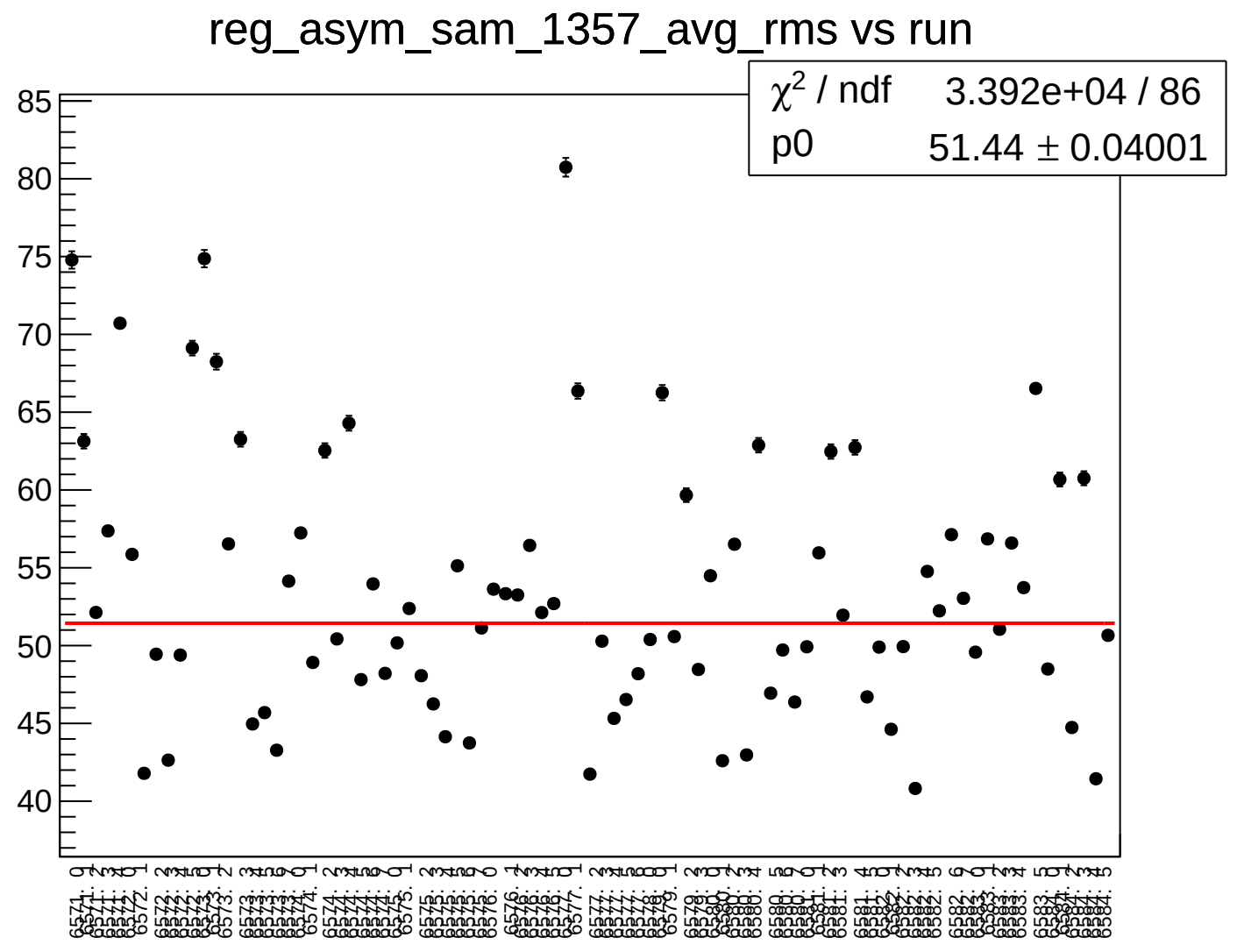

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 118.6 / 86
p0 4.186e−16 ± 1.697e−15
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean −88.36
Std Dev 0
3
2
1
0
−1
−2
−3

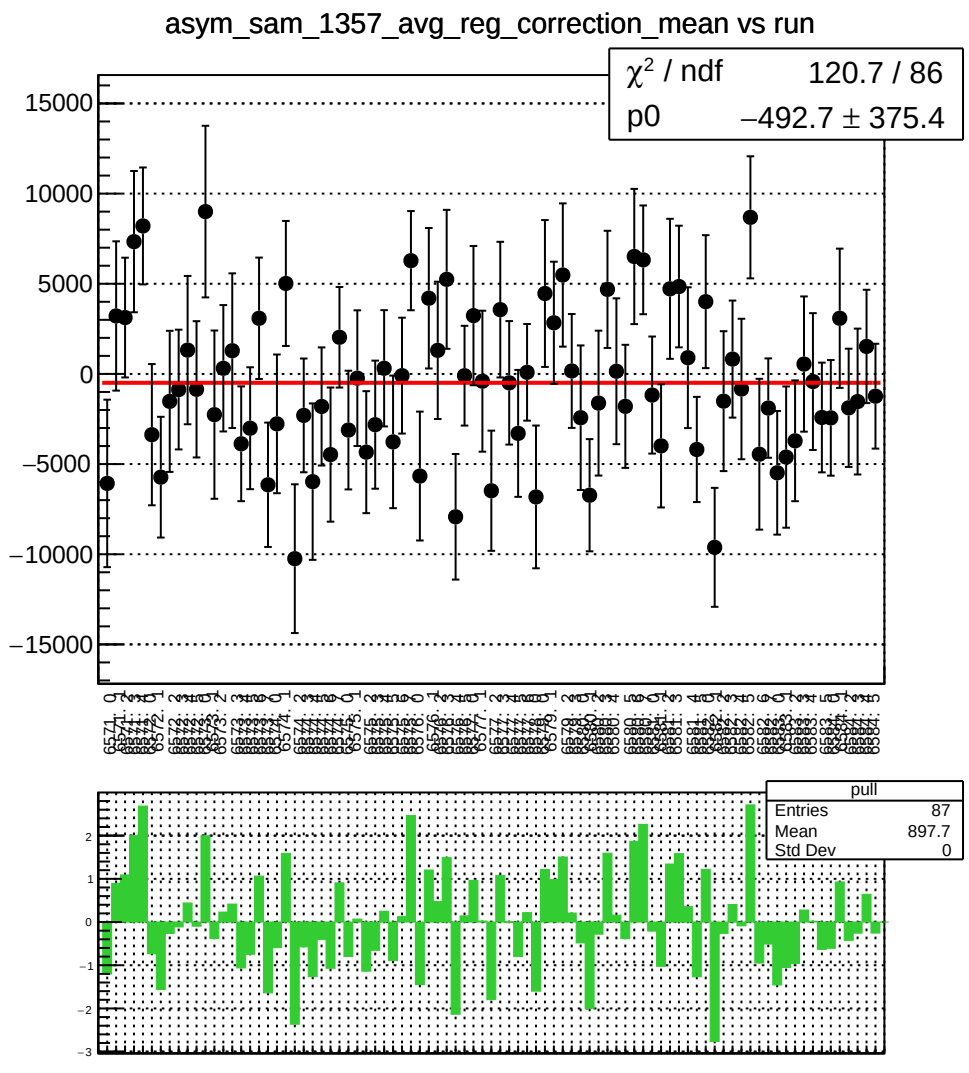

pull1D
Entries 87
Mean −0.04076
Std Dev 1.167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

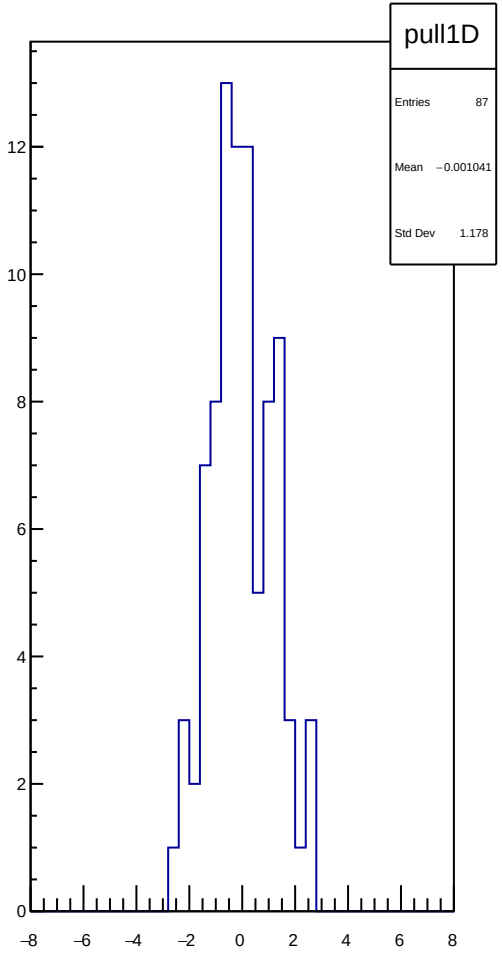

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.509e+05 / 86
p0 1.279e−12 ± 1.2e−15
7
6
5
4
3
2
1

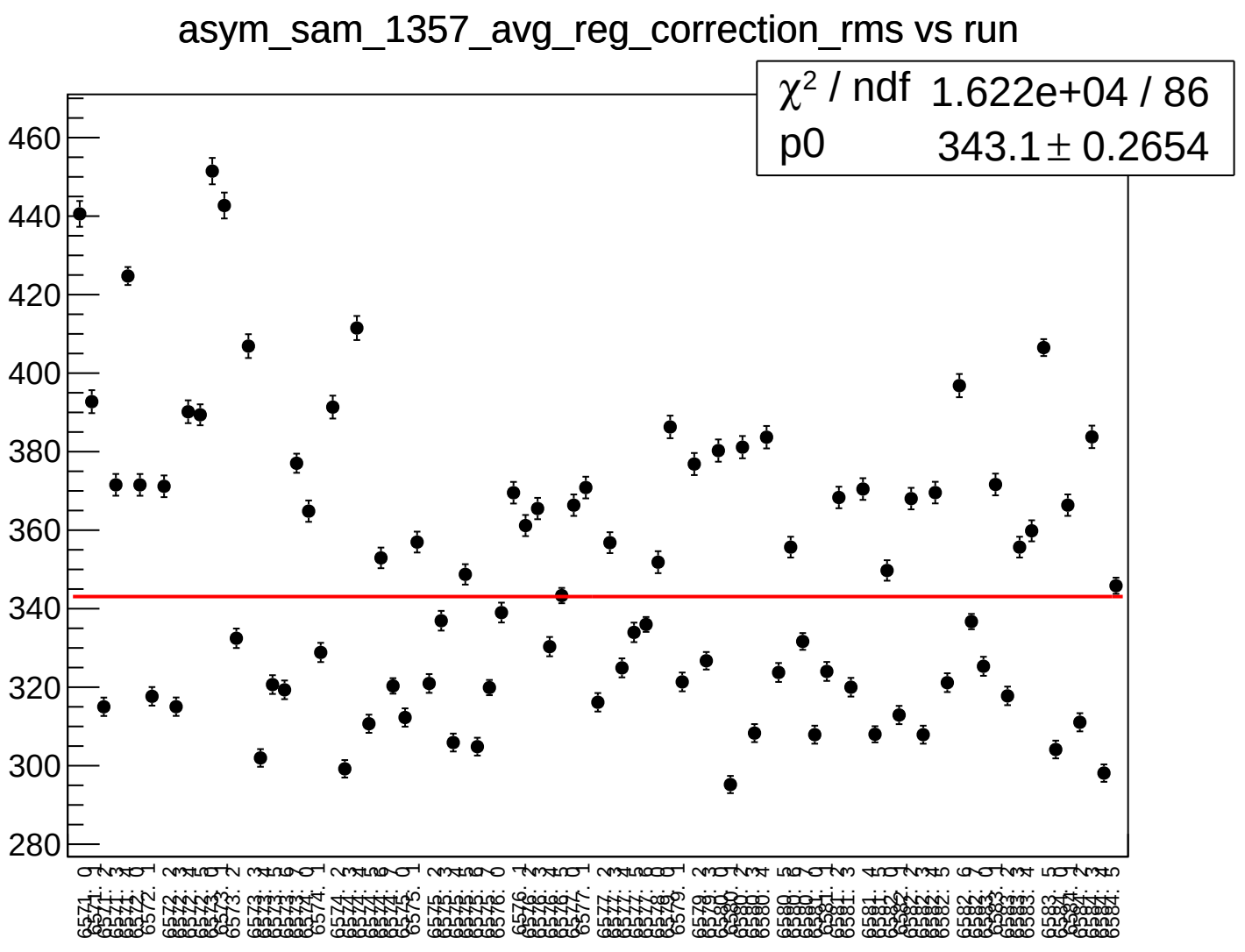

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 74.12 / 86
p0 119.8 ± 56.58
pull
Entries 87
Mean −918.6
Std Dev 0

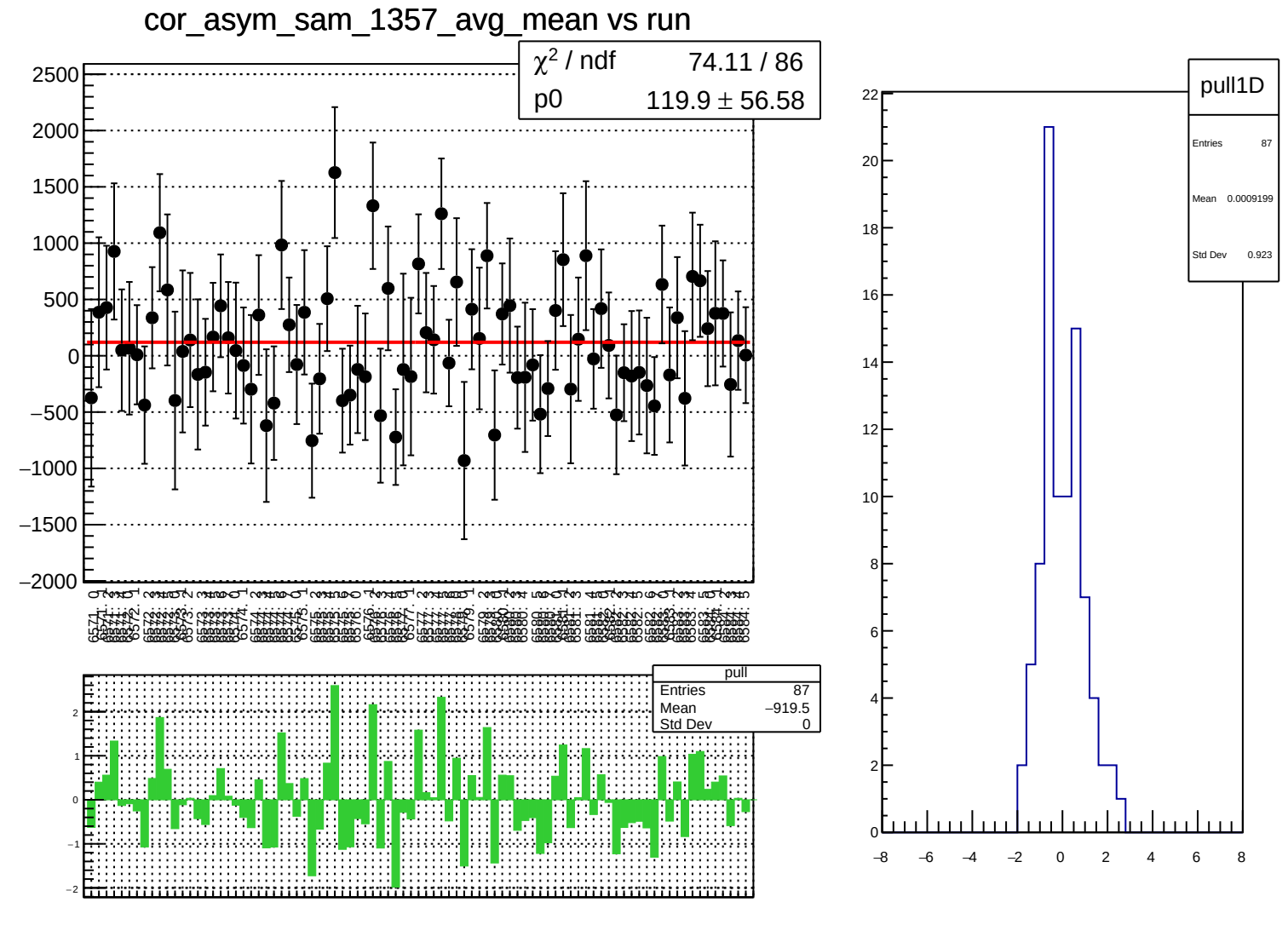

pull1D
Entries 87
Mean 0.0009207
Std Dev 0.923

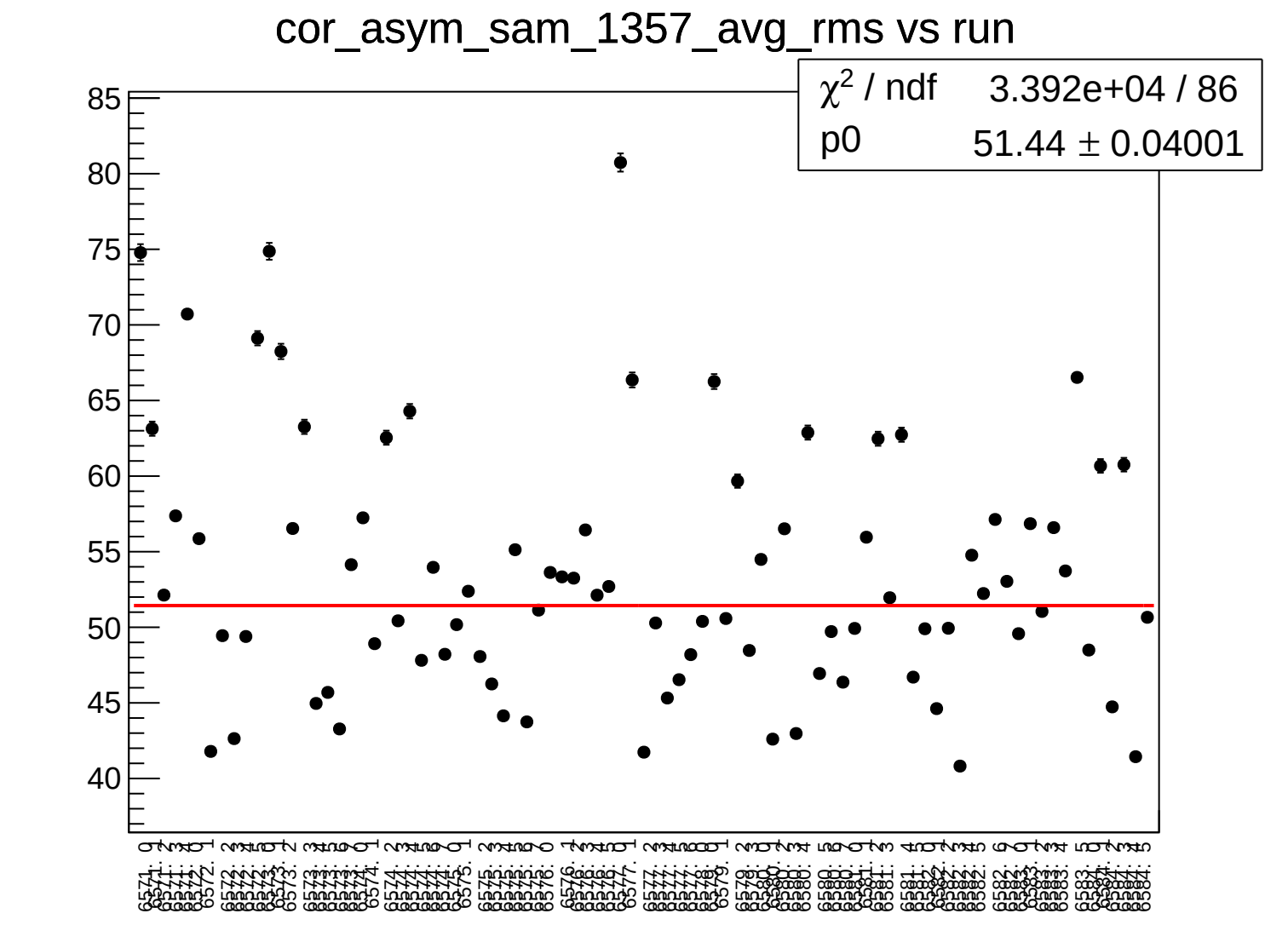

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.392e+04 / 86
p0 51.44 ± 0.04001
85
80
75
70
65
60
55
50
45
40

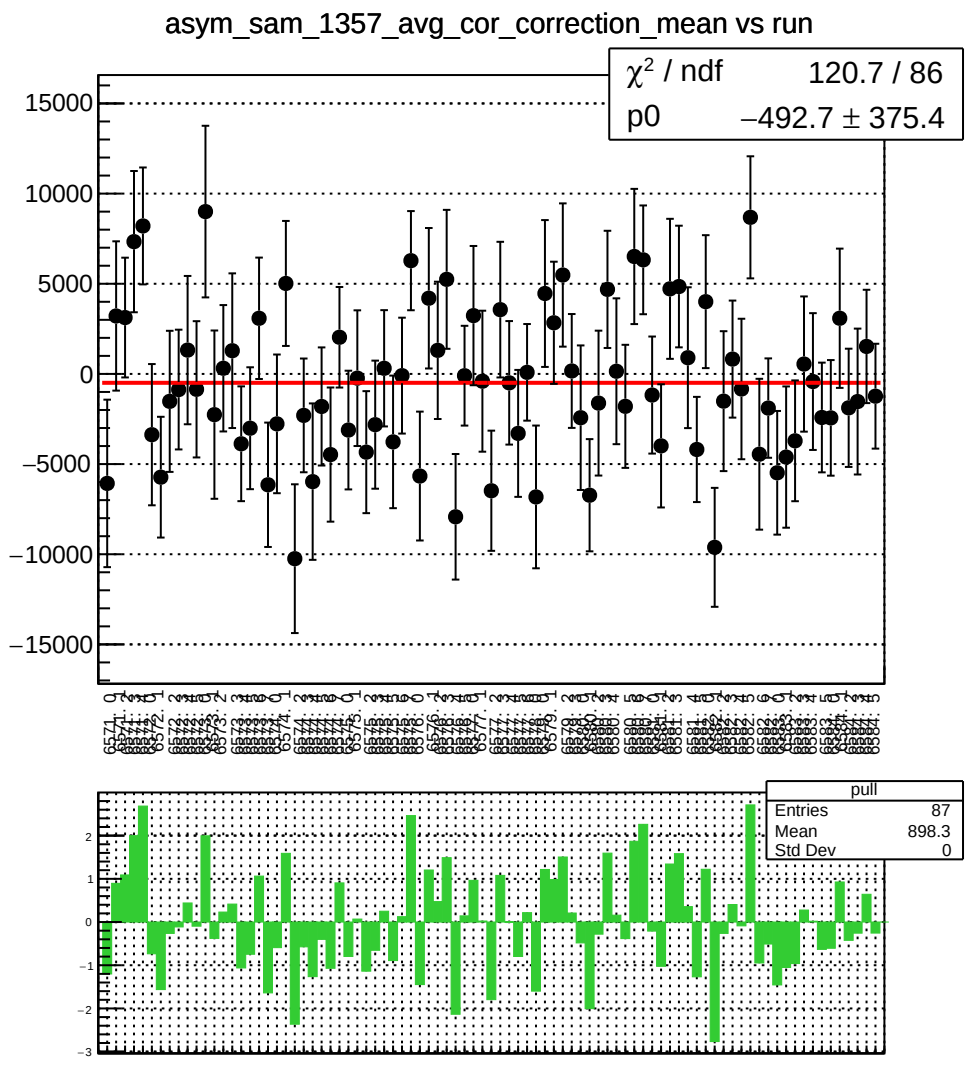

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 120.7 / 86
p0 −492.7 ± 375.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 897.7
Std Dev 0
2
1
0
−1
−2
−3

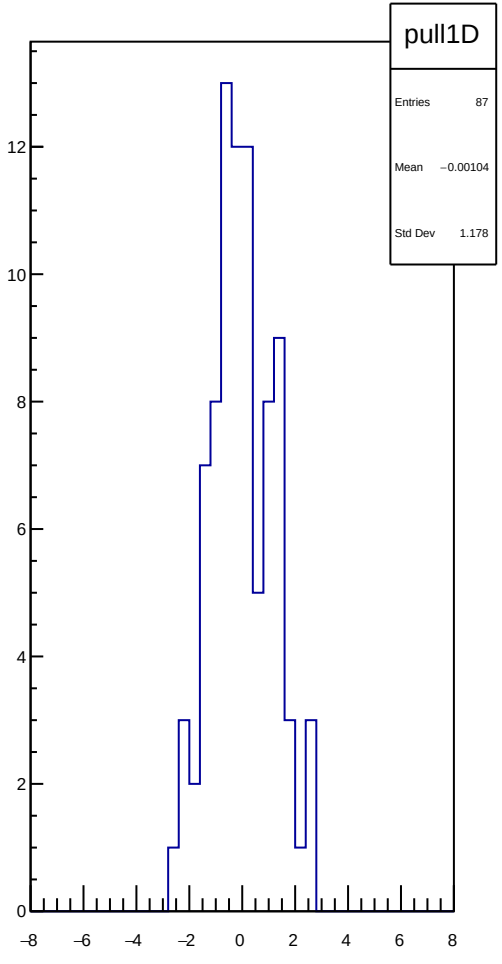

pull1D
Entries 87
Mean −0.001041
Std Dev 1.178
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

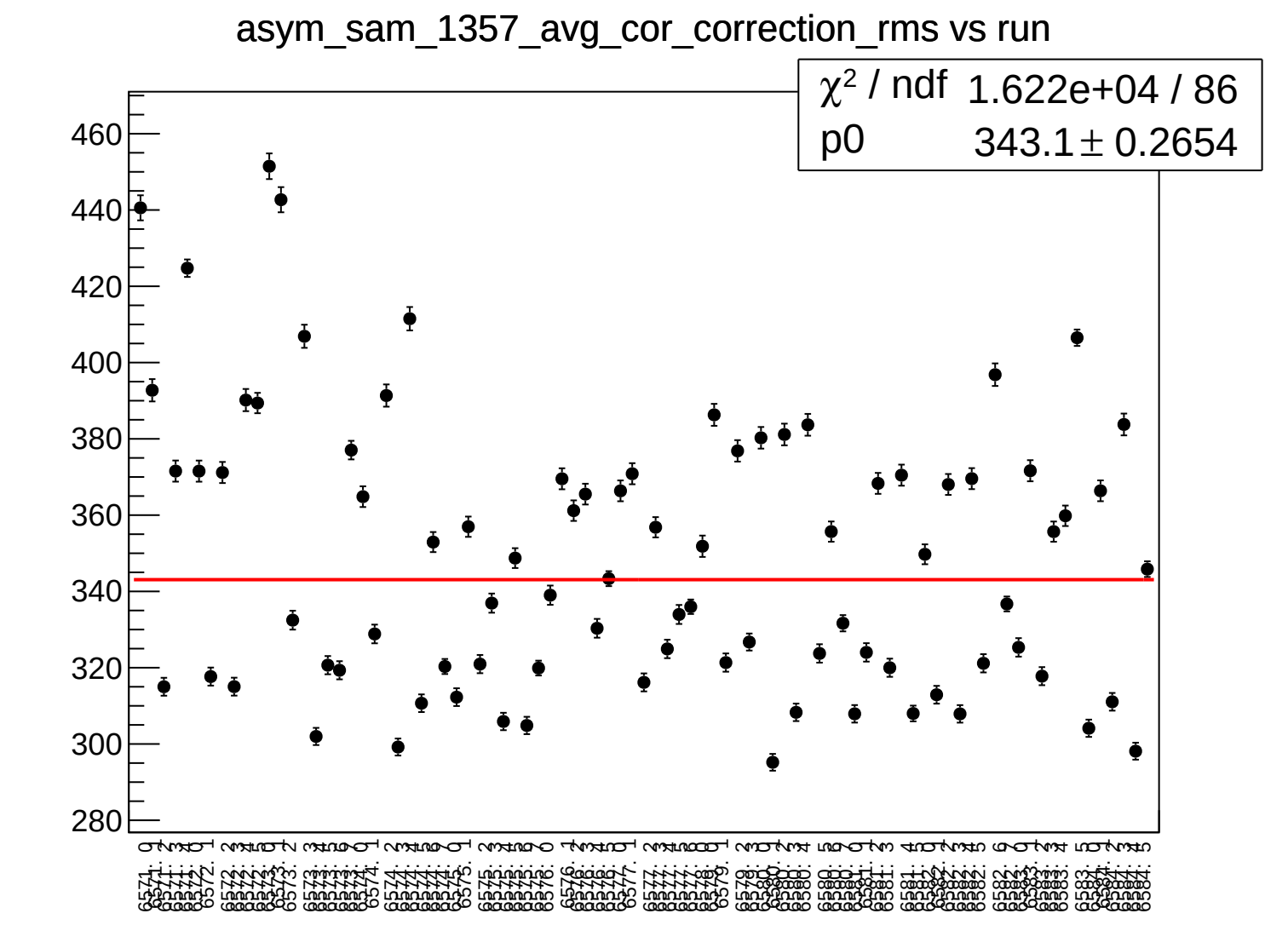

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.622e+04 / 86
p0 343.1 ± 0.2654
460
440
420
400
380
360
340
320
300
280

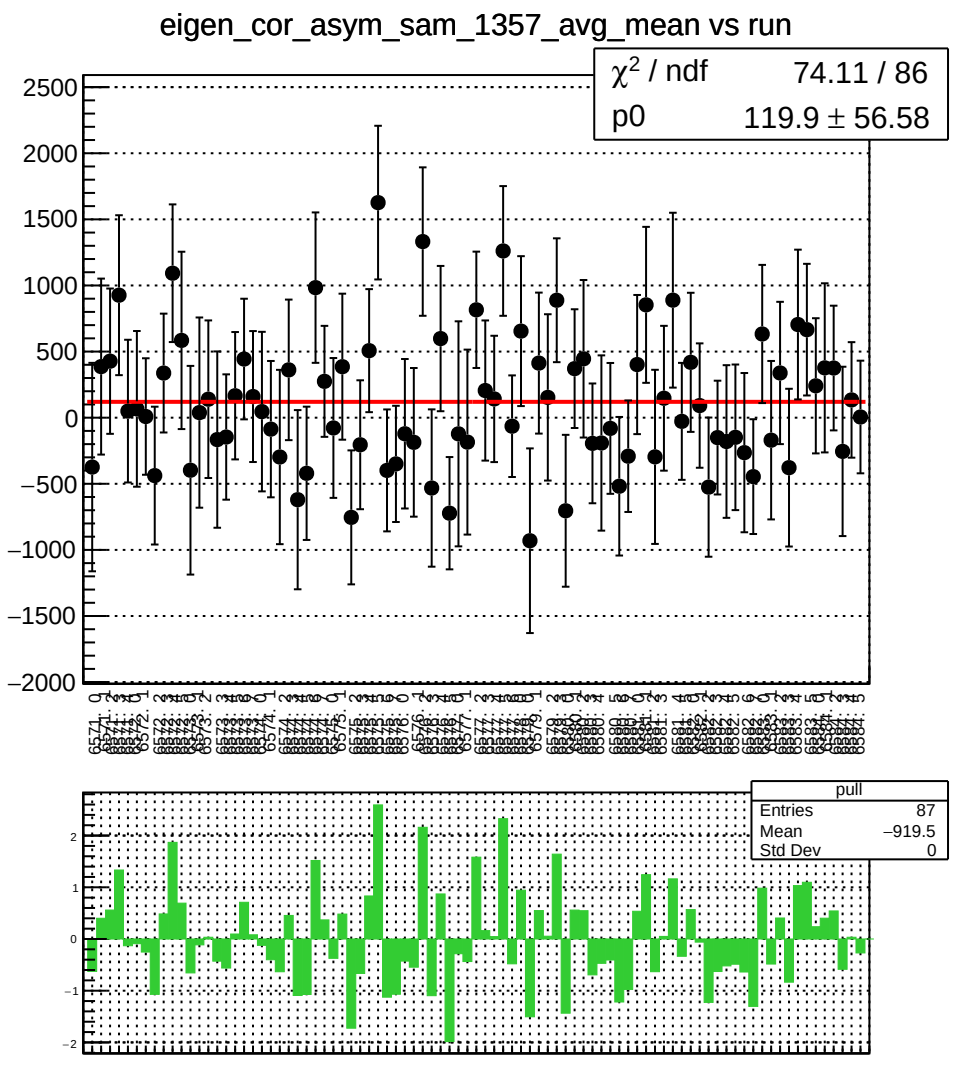

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 74.11 / 86
p0 119.9 ± 56.58
pull
Entries 87
Mean −919.5
Std Dev 0
pull1D
Entries 87
Mean 0.0009199
Std Dev 0.923

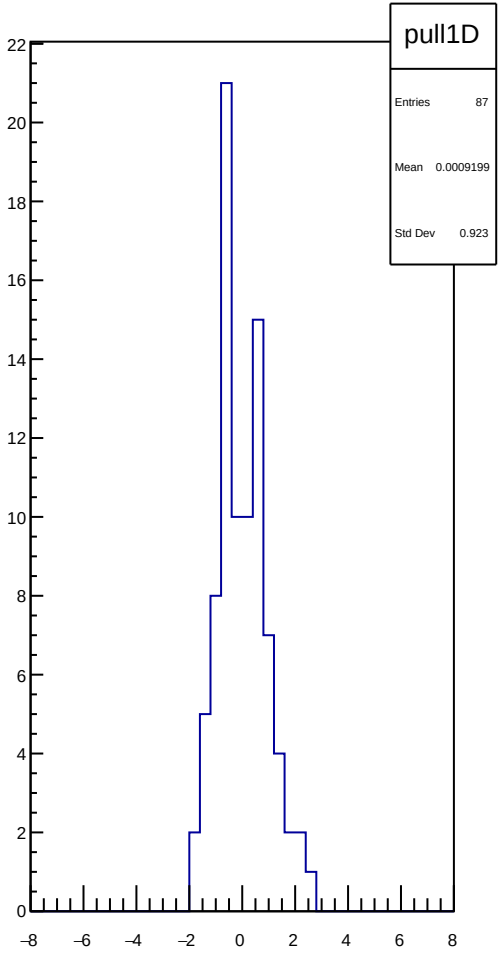

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.392e+04 / 86
p0 51.44 ± 0.04001
85
80
75
70
65
60
55
50
45
40

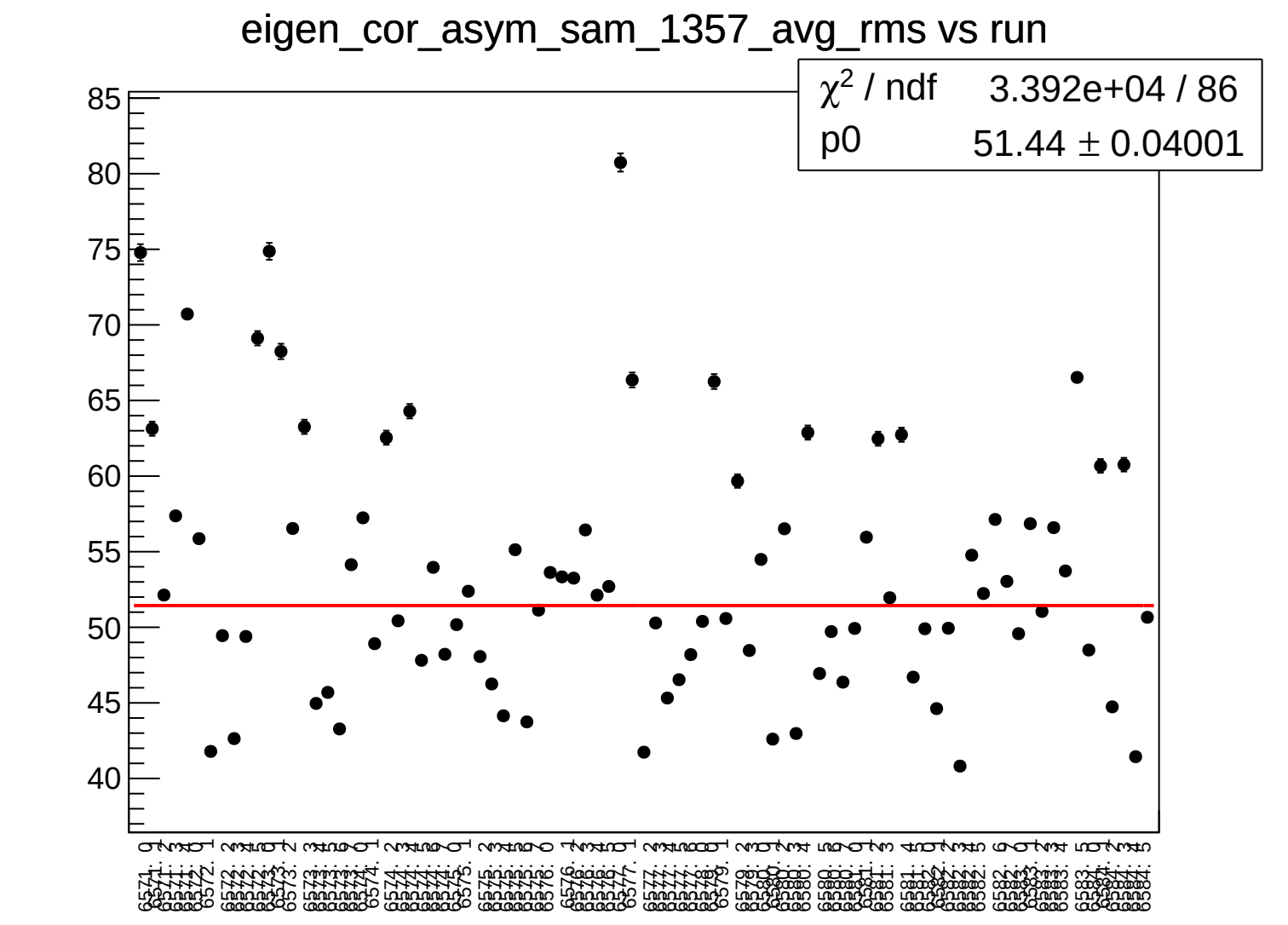

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 120.7 / 86
p0 −492.7 ± 375.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 898.3
Std Dev 0
2
1
0
−1
−2
−3

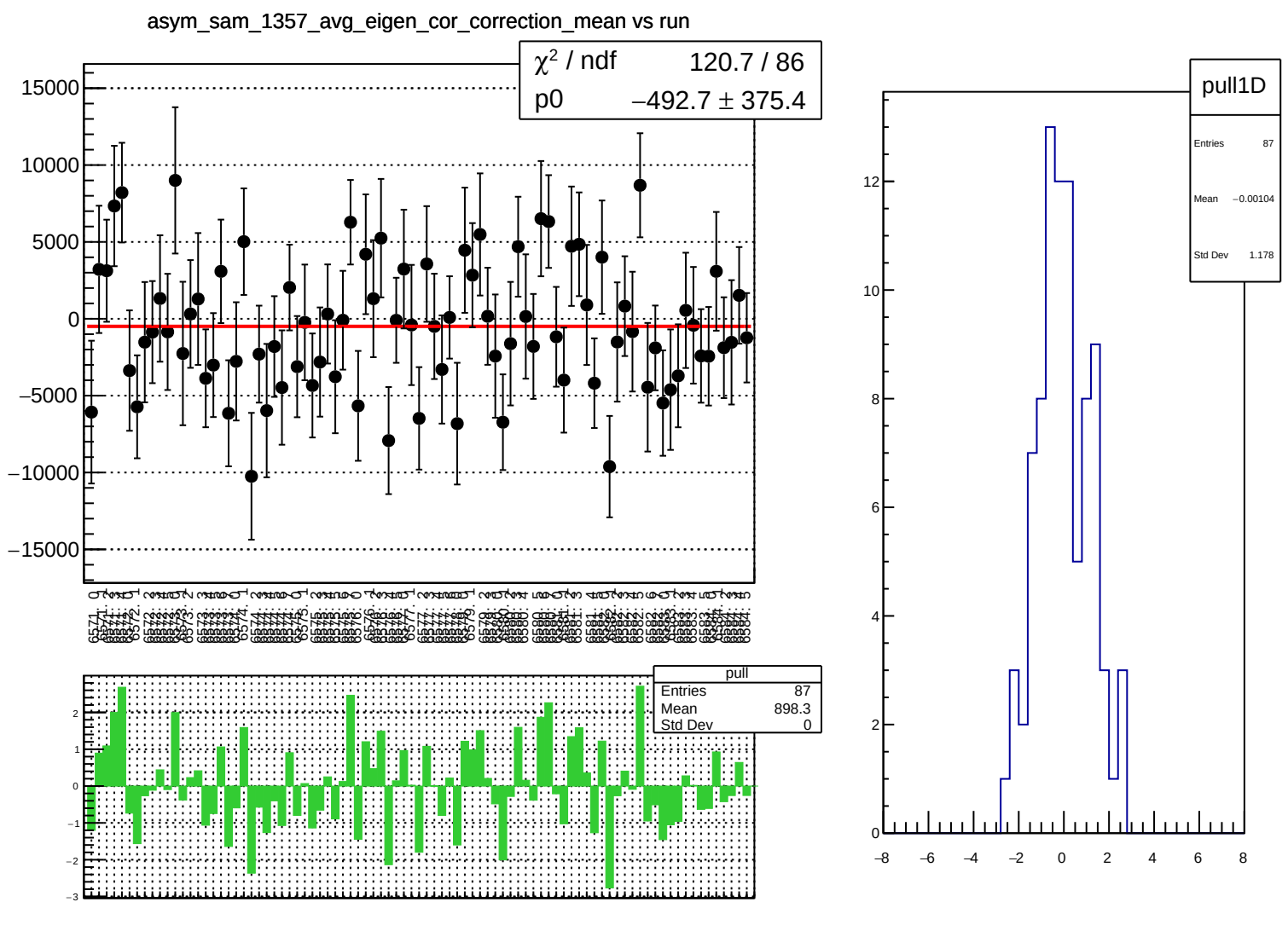

pull1D
Entries 87
Mean −0.00104
Std Dev 1.178
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

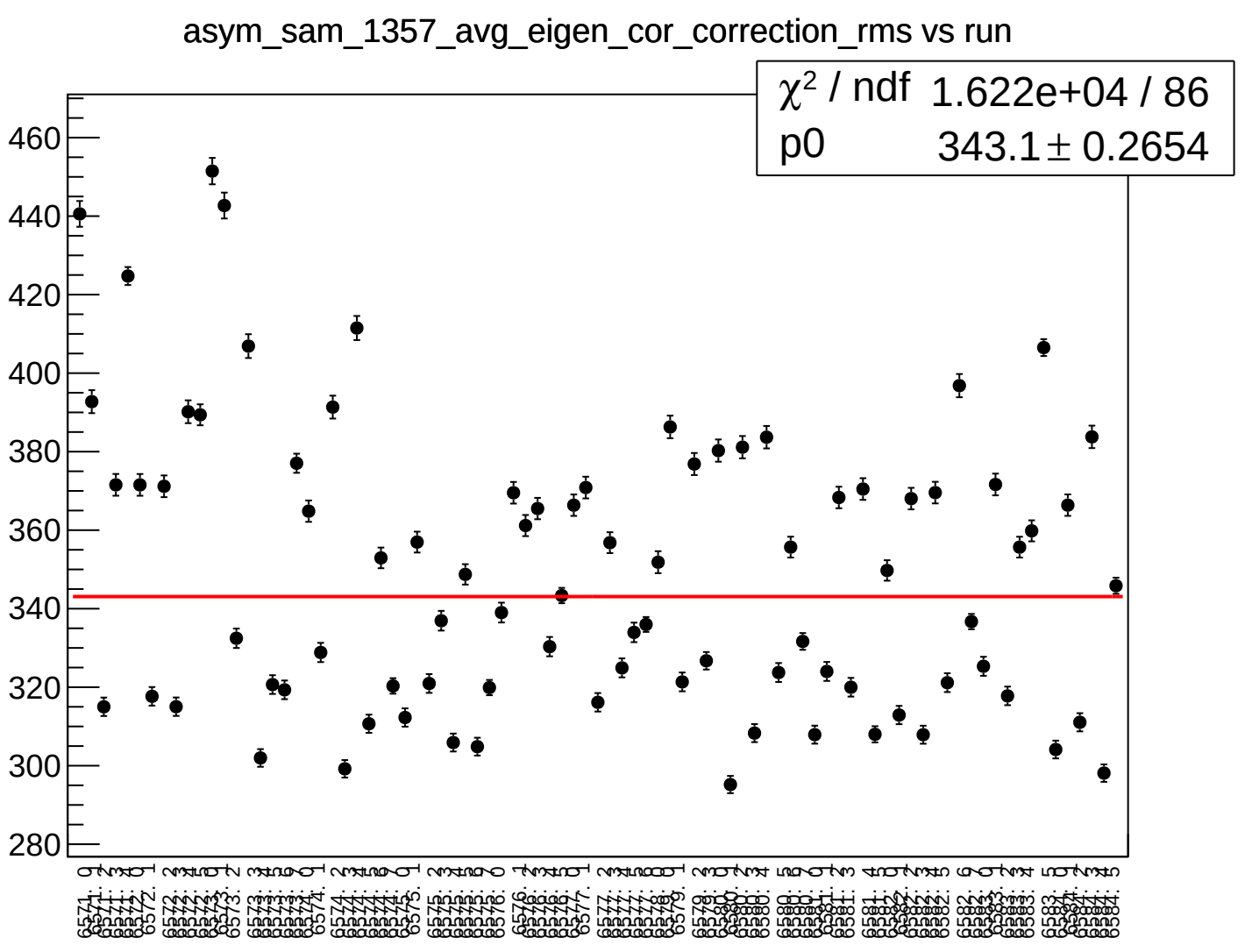

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.622e+04 / 86
p0 343.1 ± 0.2654
460
440
420
400
380
360
340
320
300
280

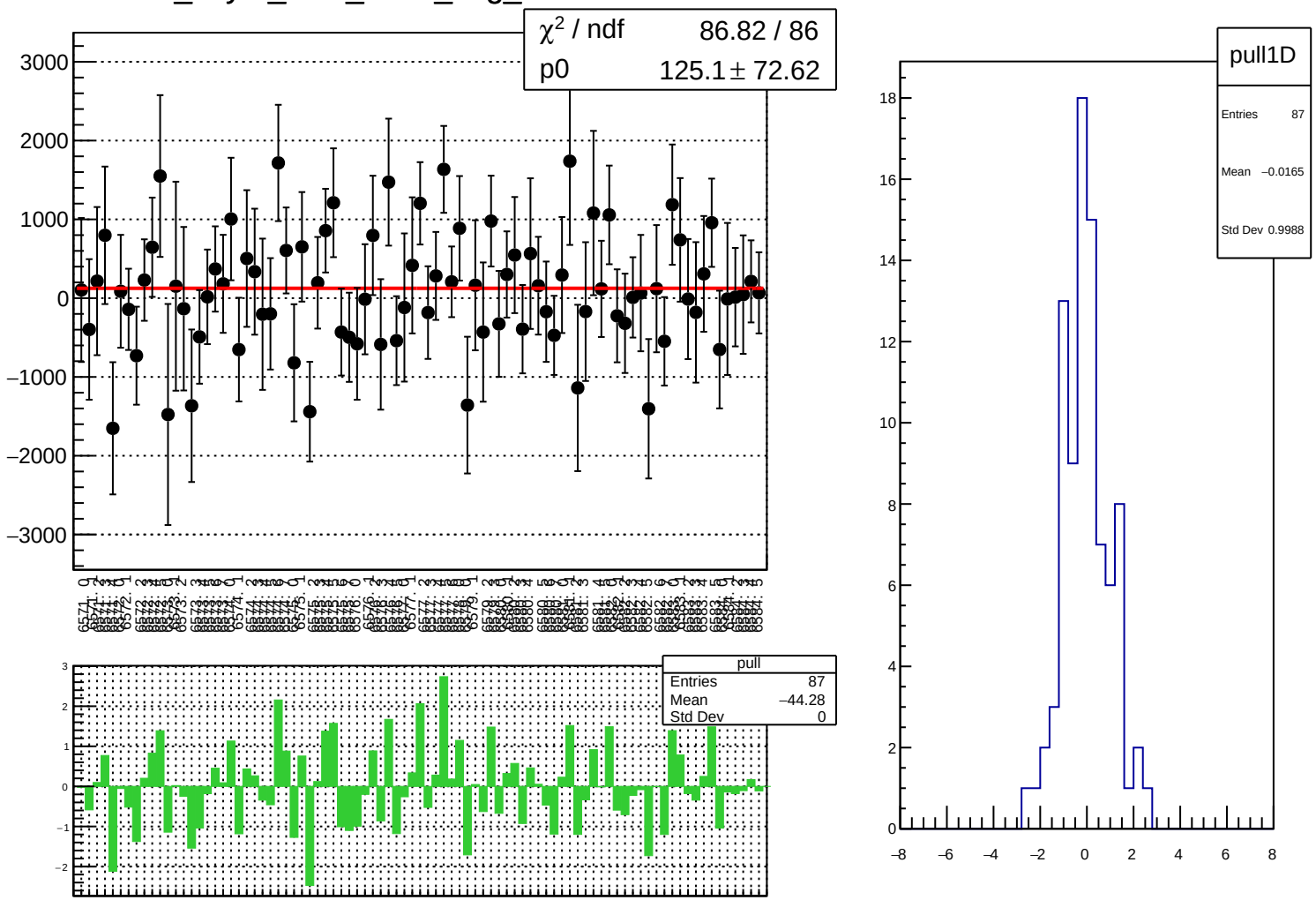

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 74.11 / 86
p0 119.9 ± 56.58
pull
Entries 87
Mean –919.5
Std Dev 0

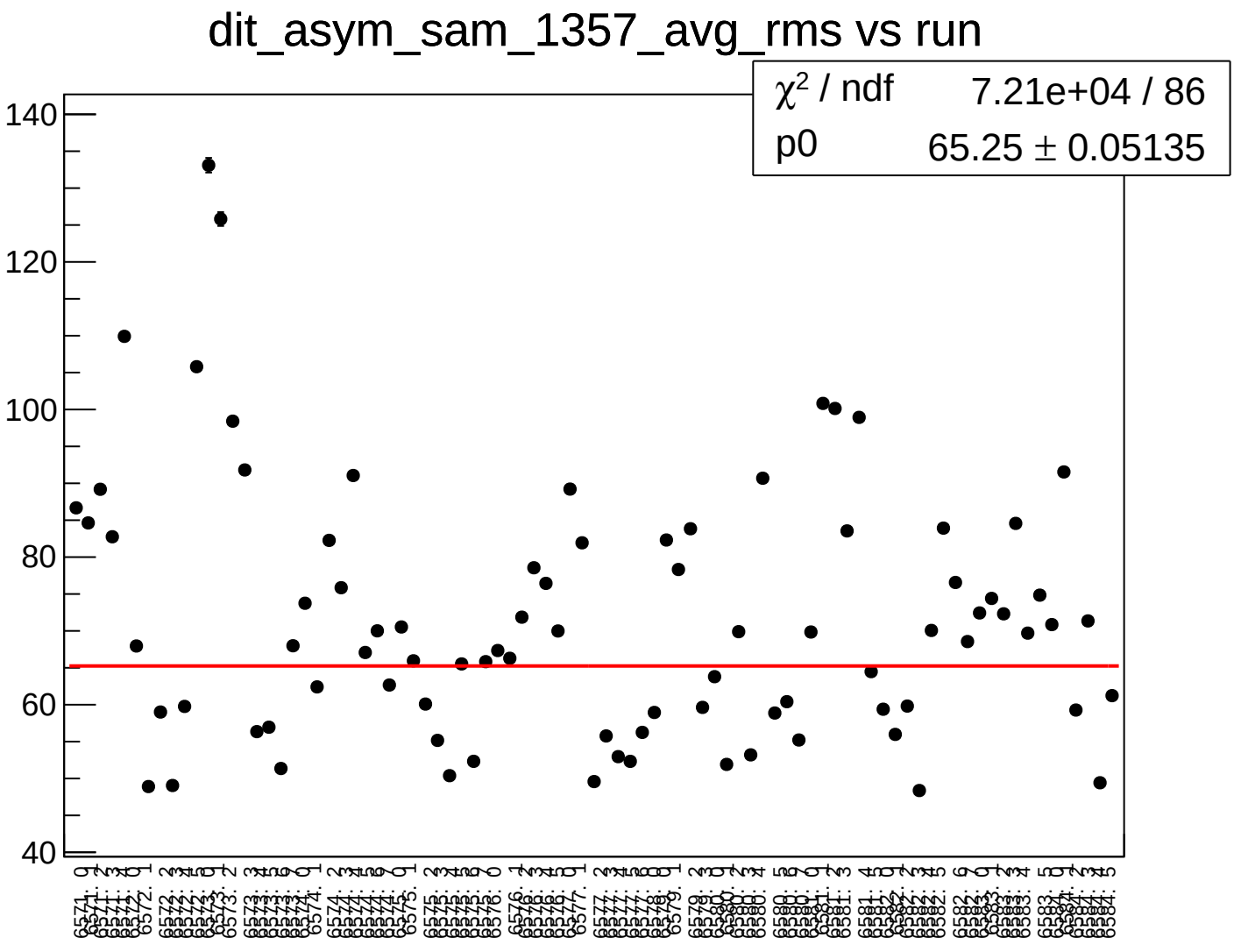

pull1D
Entries 87
Mean 0.0009199
Std Dev 0.923

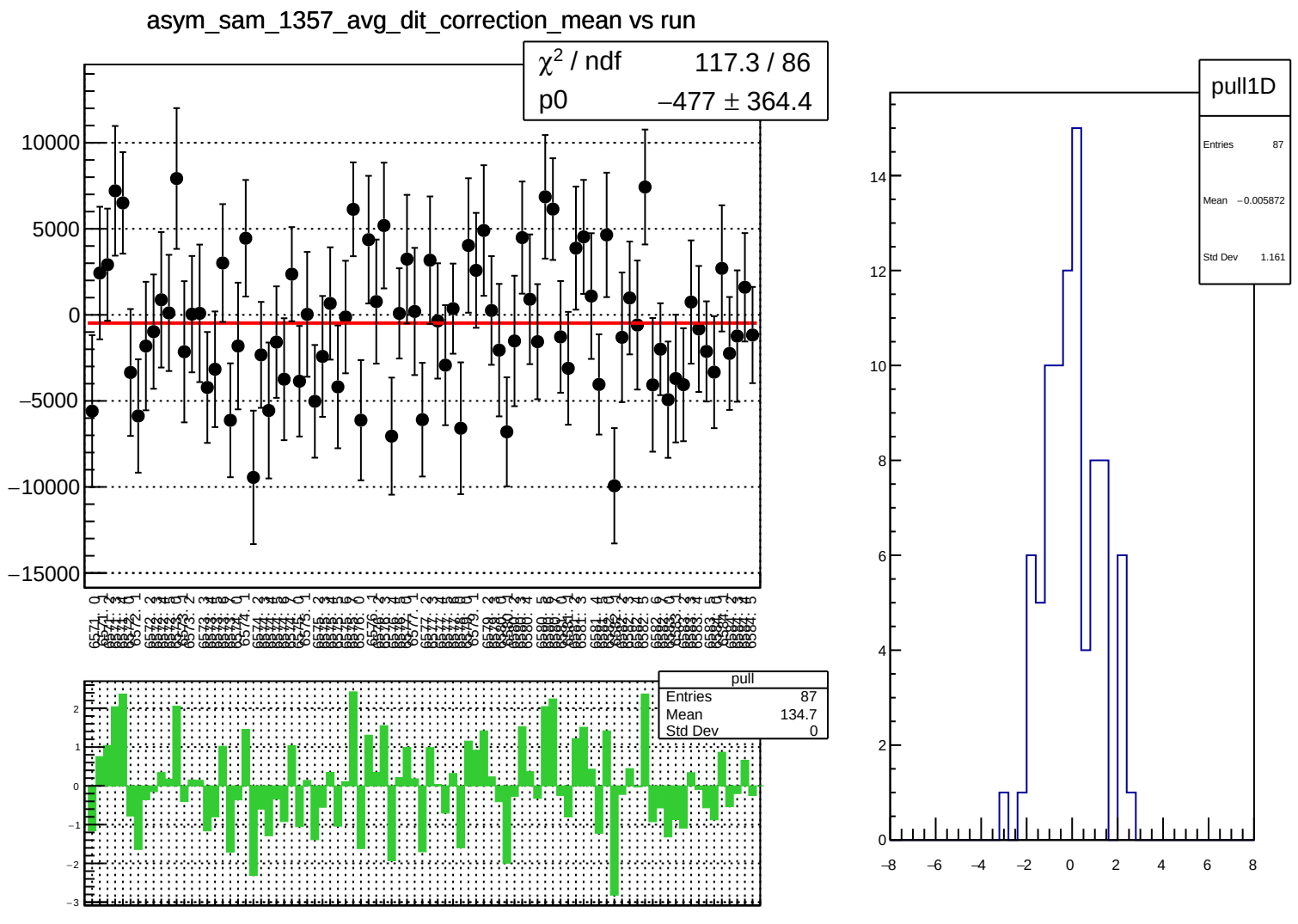

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.392e+04 / 86
p0 51.44 ± 0.04001
85
80
75
70
65
60
55
50
45
40

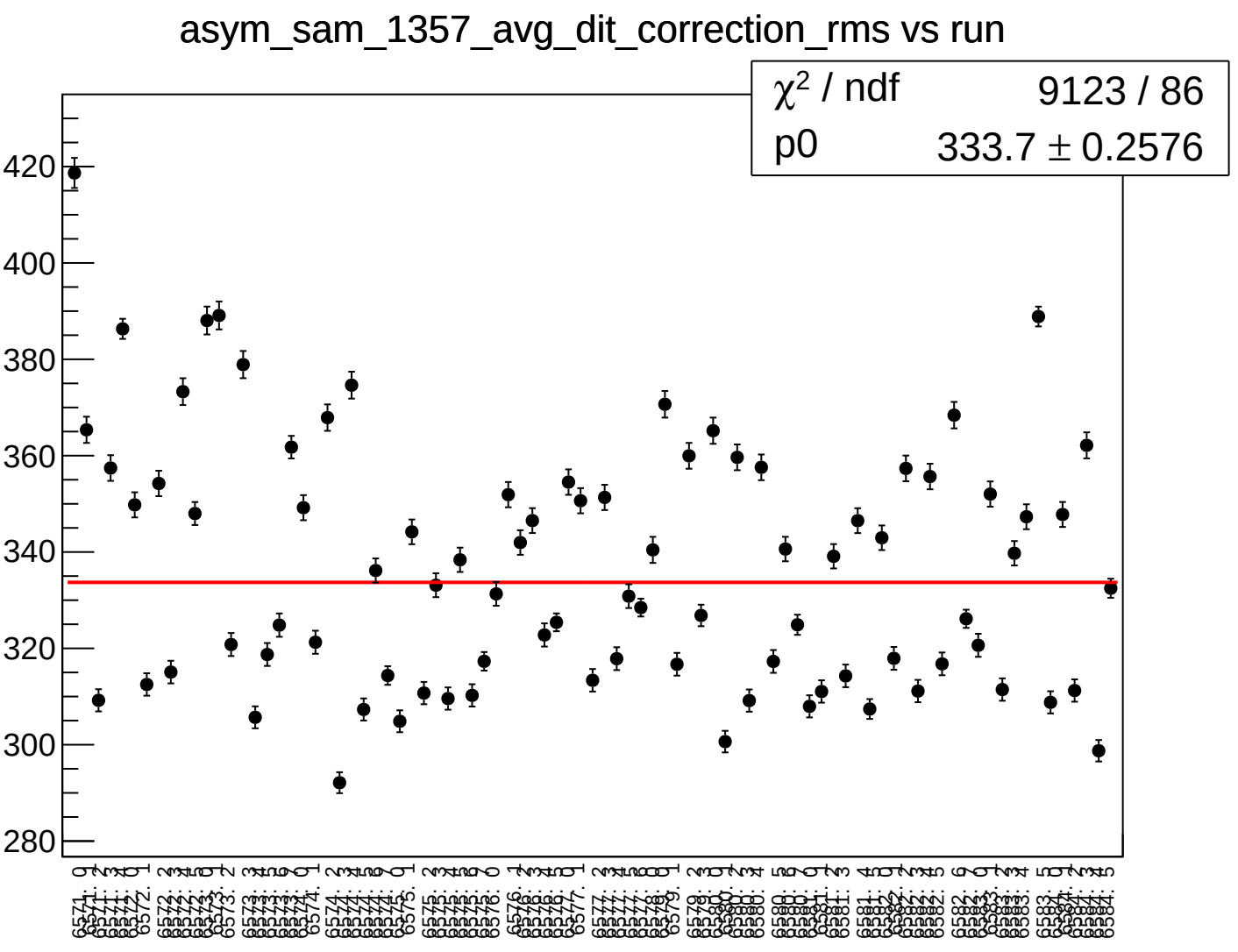

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 120.7 / 86
p0 −492.7 ± 375.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 898.3
Std Dev 0
pull1D
Entries 87
Mean −0.00104
Std Dev 1.178
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

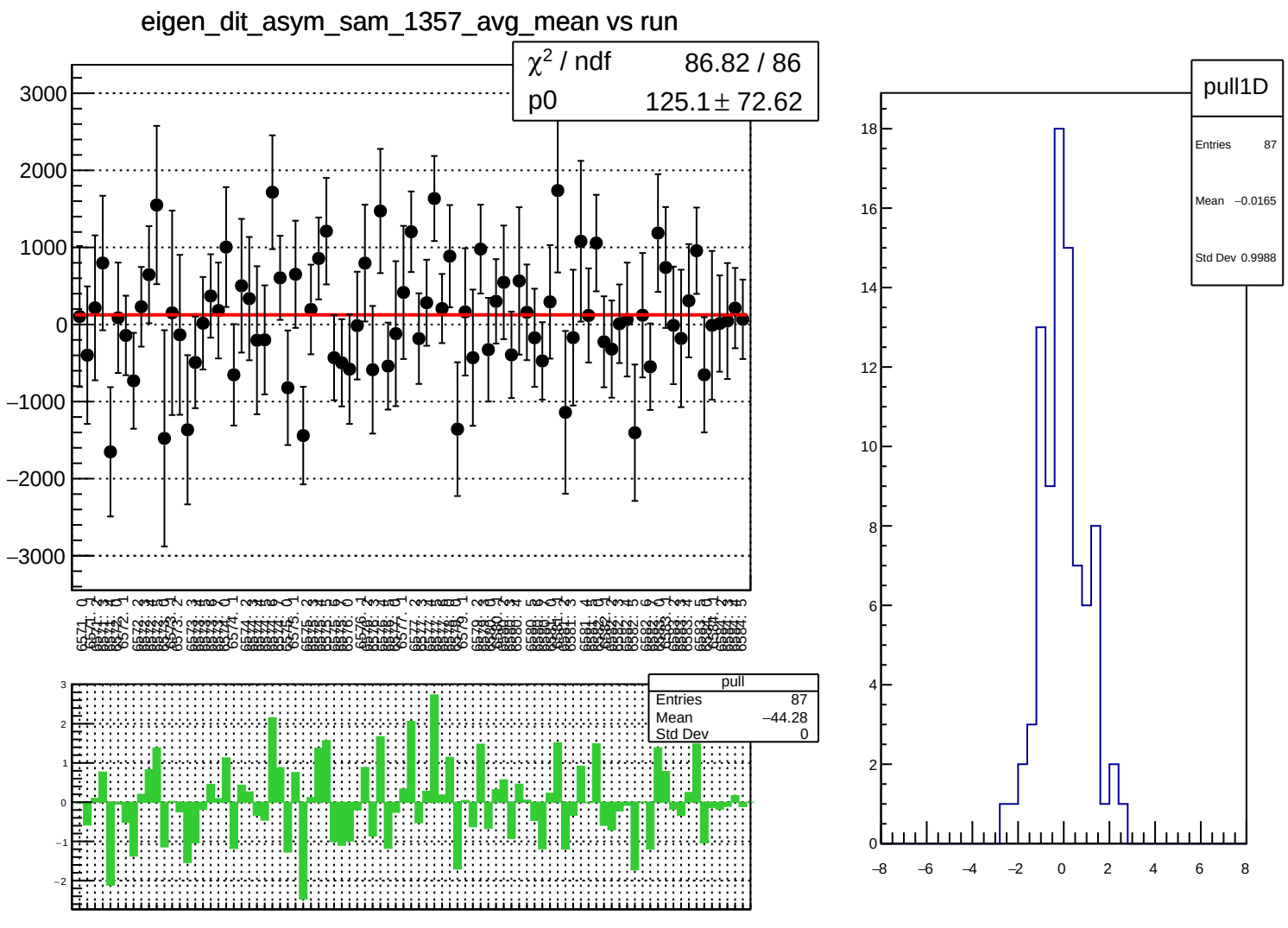

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.622e+04 / 86
p0 343.1 ± 0.2654
460
440
420
400
380
360
340
320
300
280

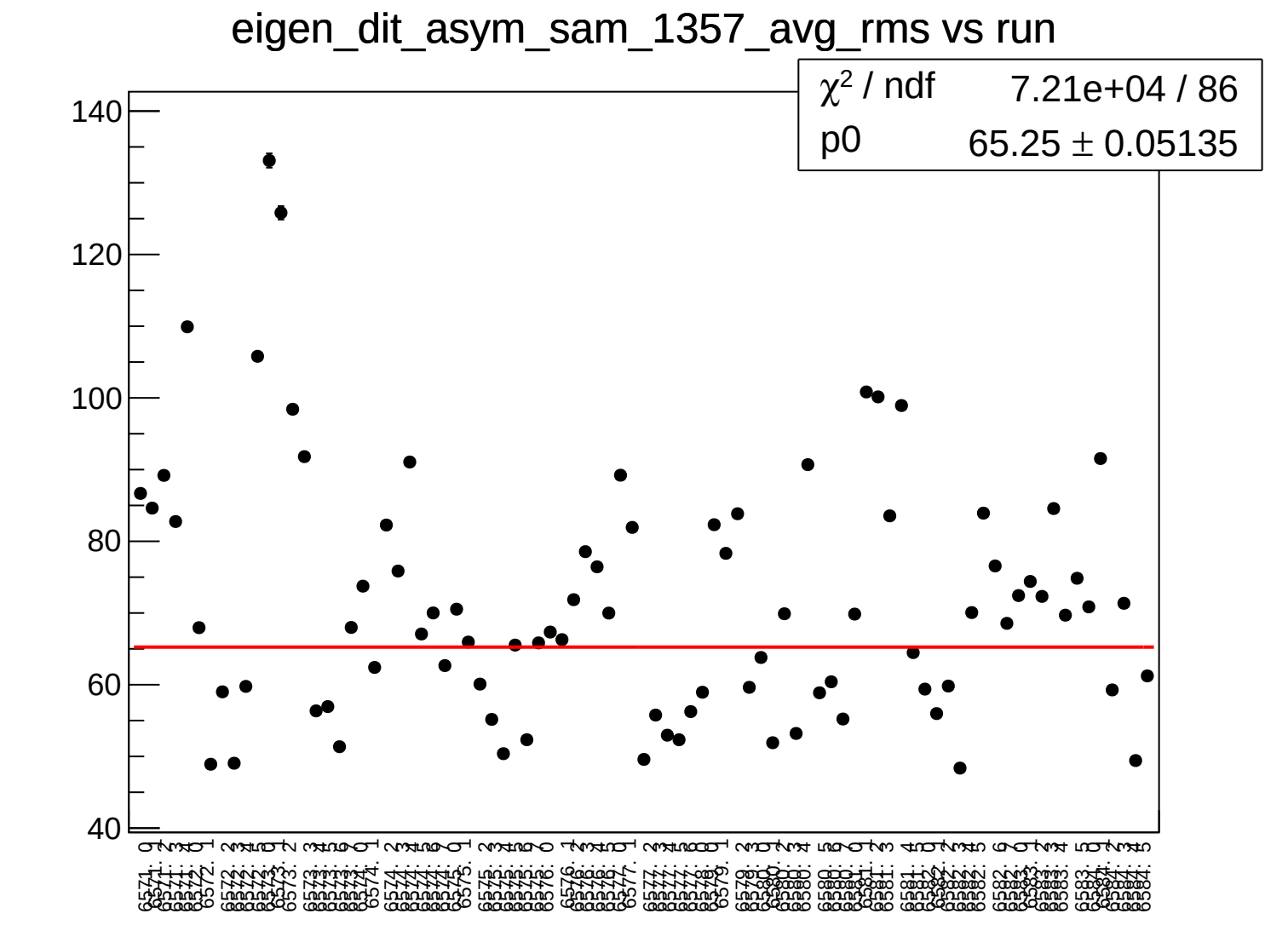

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 86.82 / 86
p0 125.1 ± 72.62
pull
Entries 87
Mean −44.28
Std Dev 0
pull1D
Entries 87
Mean −0.0165
Std Dev 0.9988

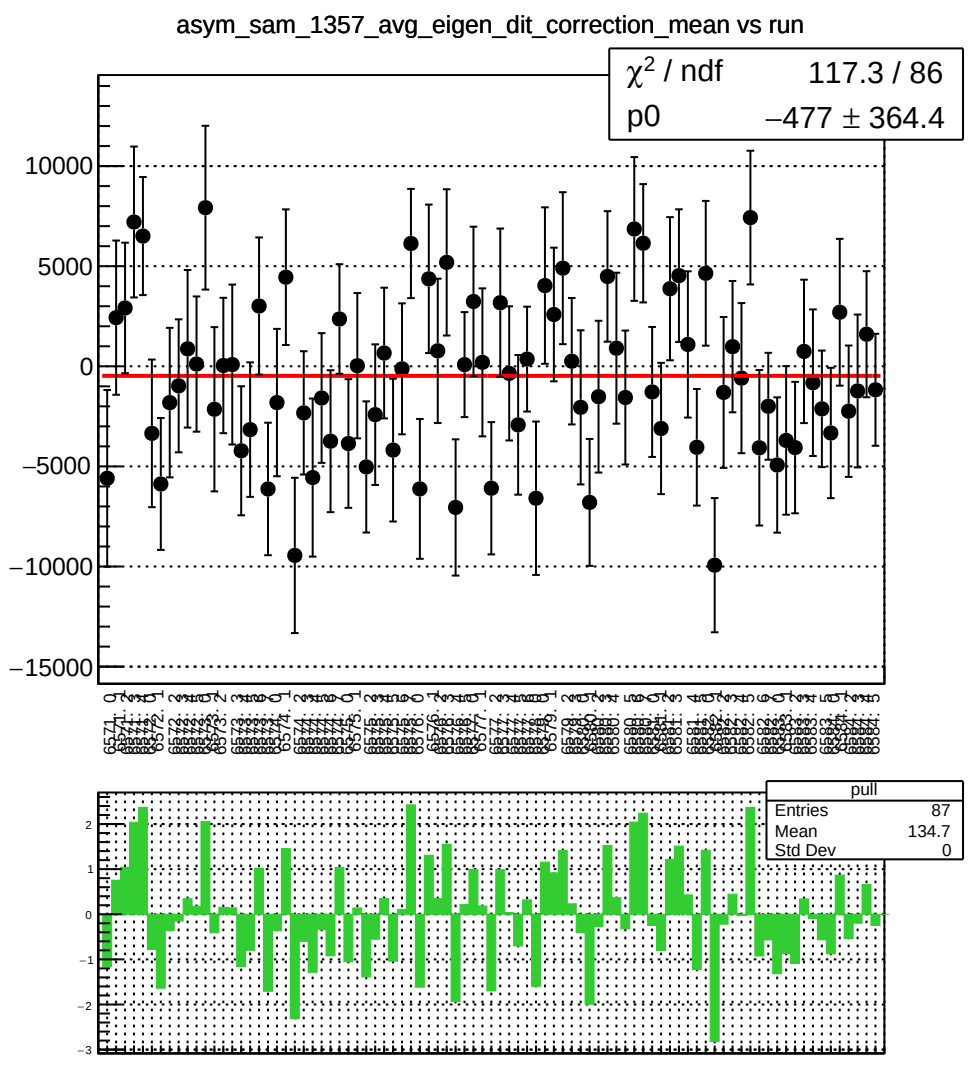

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 7.21e+04 / 86
p0 65.25 ± 0.05135
140
120
100
80
60
40

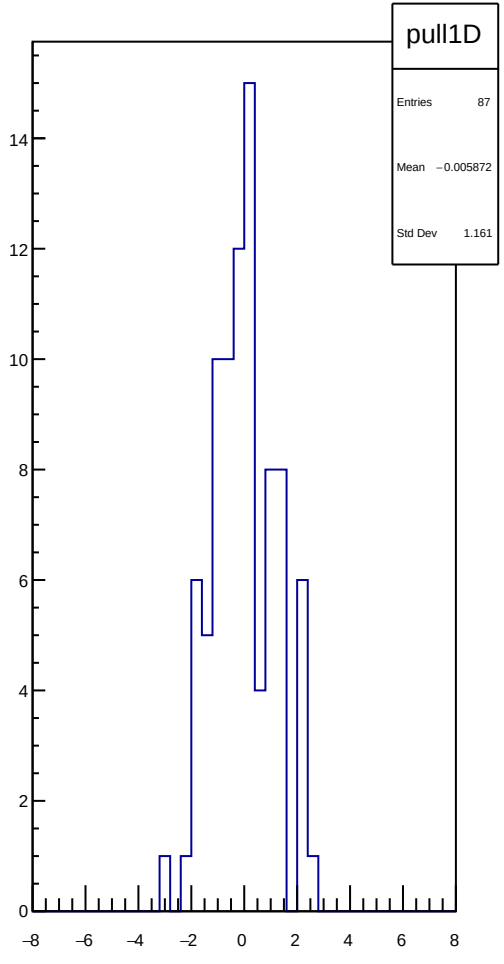

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 117.3 / 86
p0 −477 ± 364.4
pull
Entries 87
Mean 134.7
Std Dev 0
pull1D
Entries 87
Mean −0.005872
Std Dev 1.161

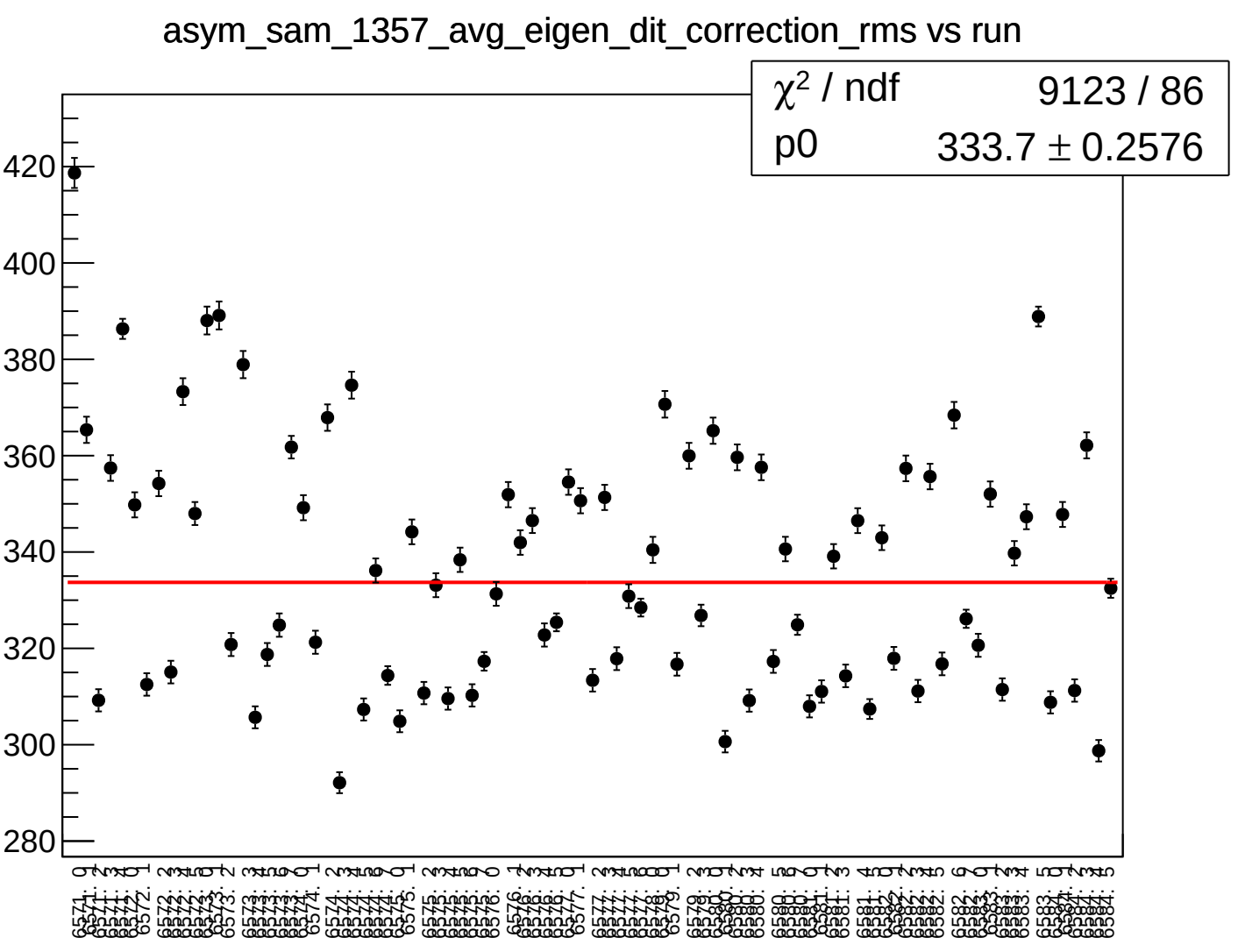

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 9123 / 86
p0 333.7 ± 0.2576
420
400
380
360
340
320
300
280

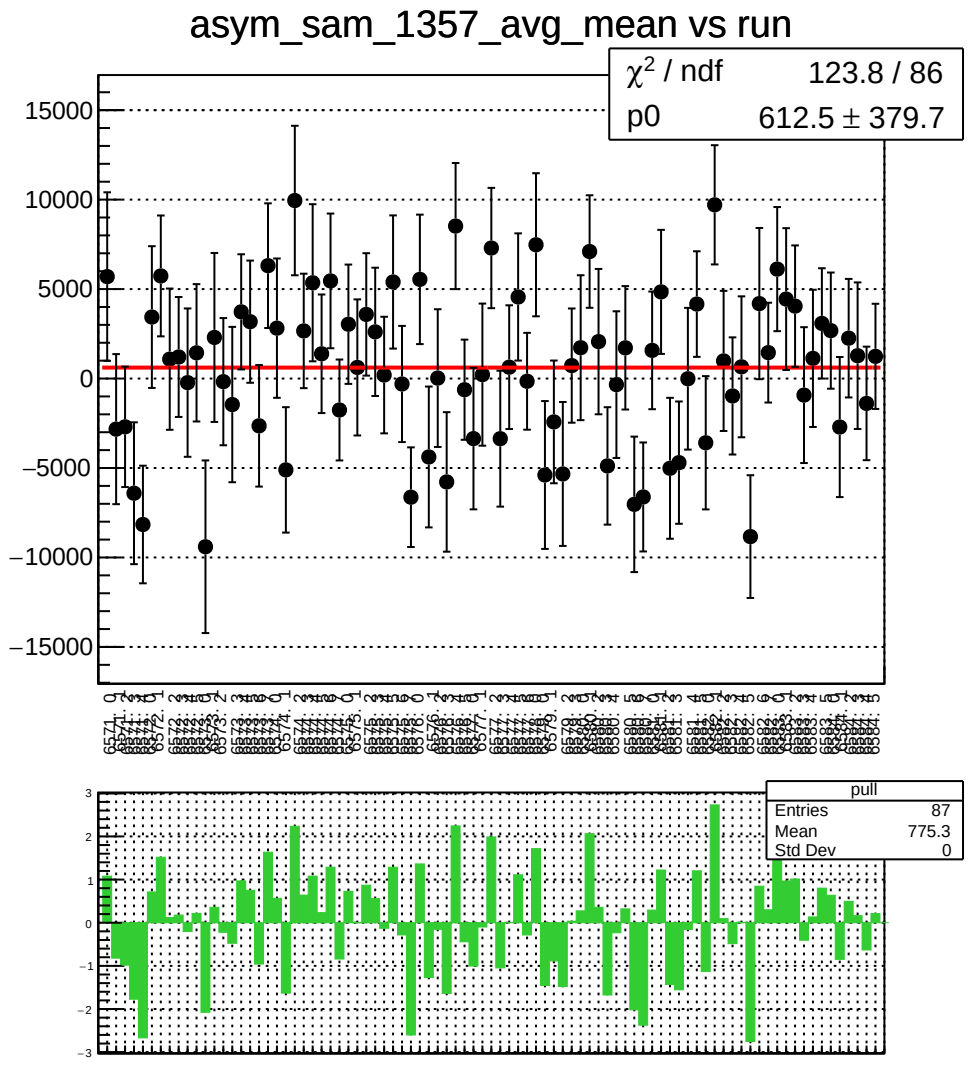

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 86.82 / 86
p0 125.1 ± 72.62
pull
Entries 87
Mean −44.28
Std Dev 0
pull1D
Entries 87
Mean −0.0165
Std Dev 0.9988

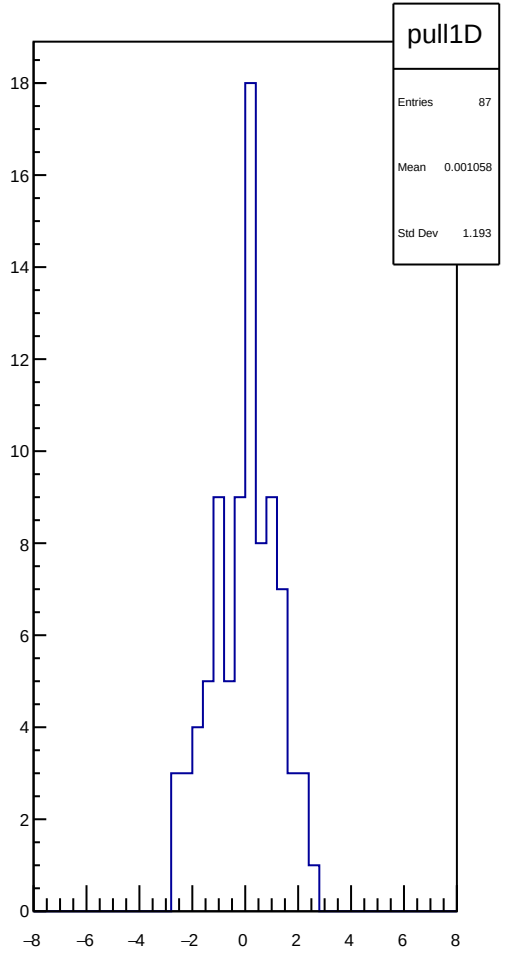

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 7.21e+04 / 86
p0 65.25 ± 0.05135
140
120
100
80
60
40

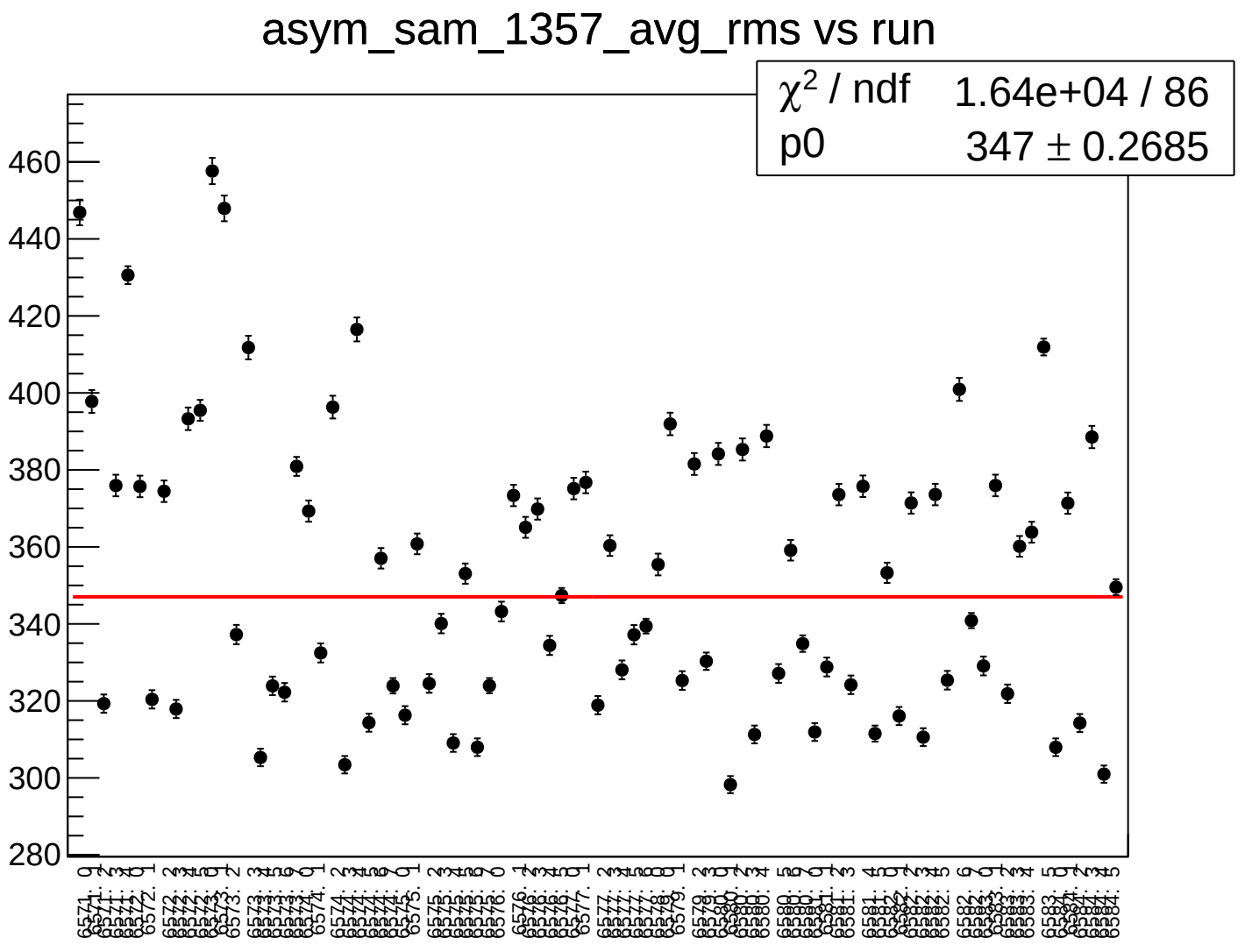

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 117.3 / 86
p0 −477 ± 364.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 134.7
Std Dev 0
2
1
0
−1
−2
−3

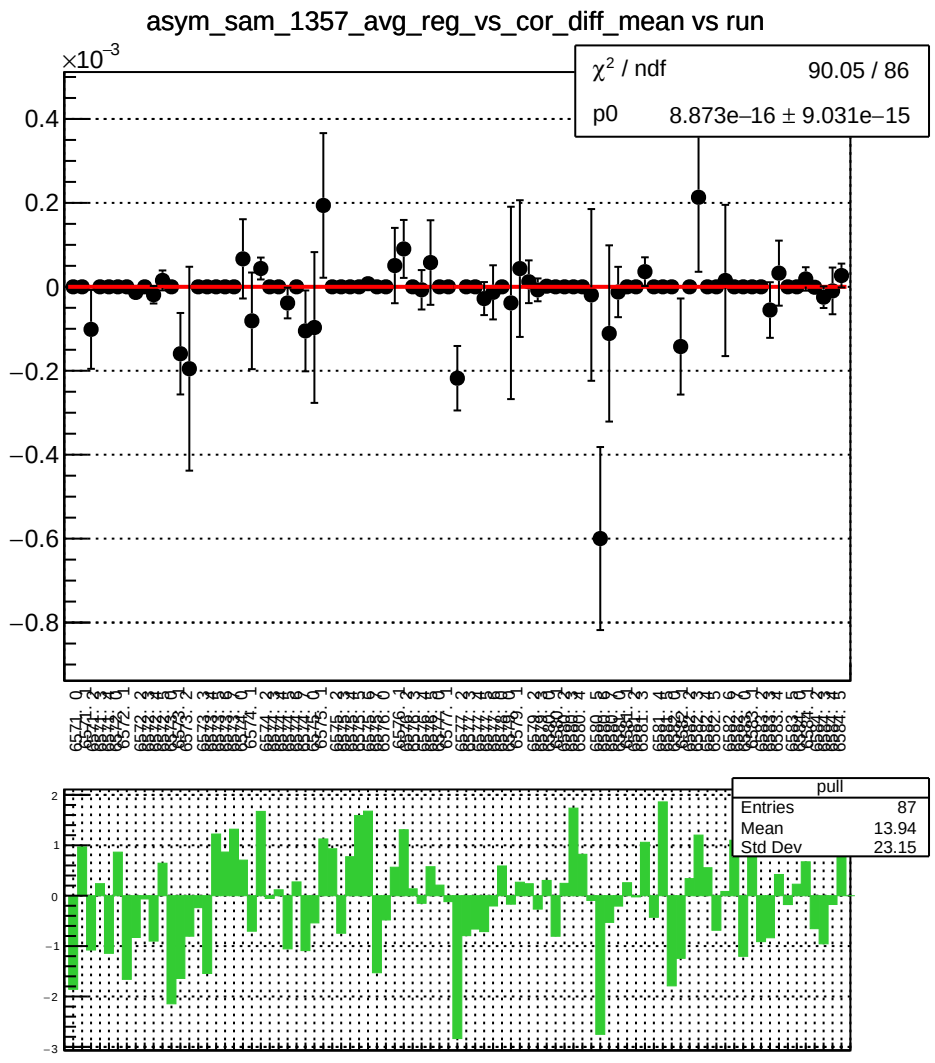

pull1D
Entries 87
Mean −0.005872
Std Dev 1.161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

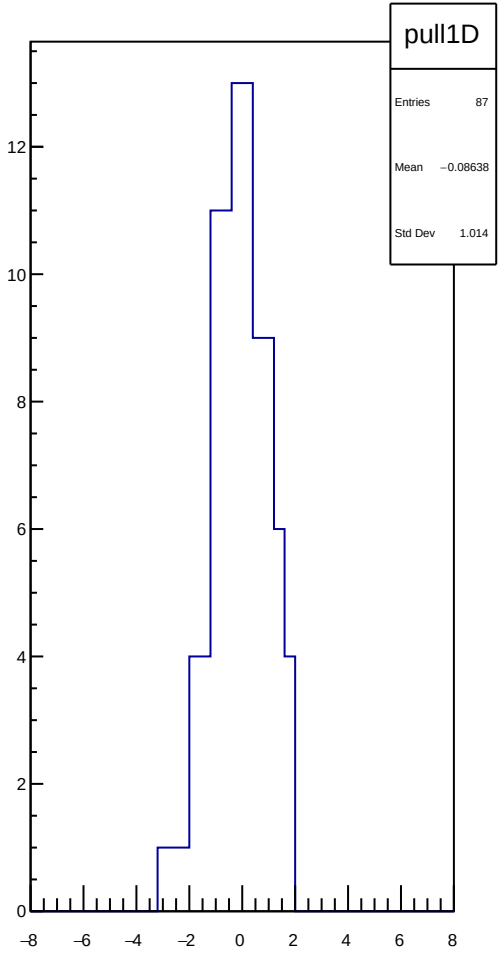

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 9123 / 86
p0 333.7 ± 0.2576
420
400
380
360
340
320
300
280

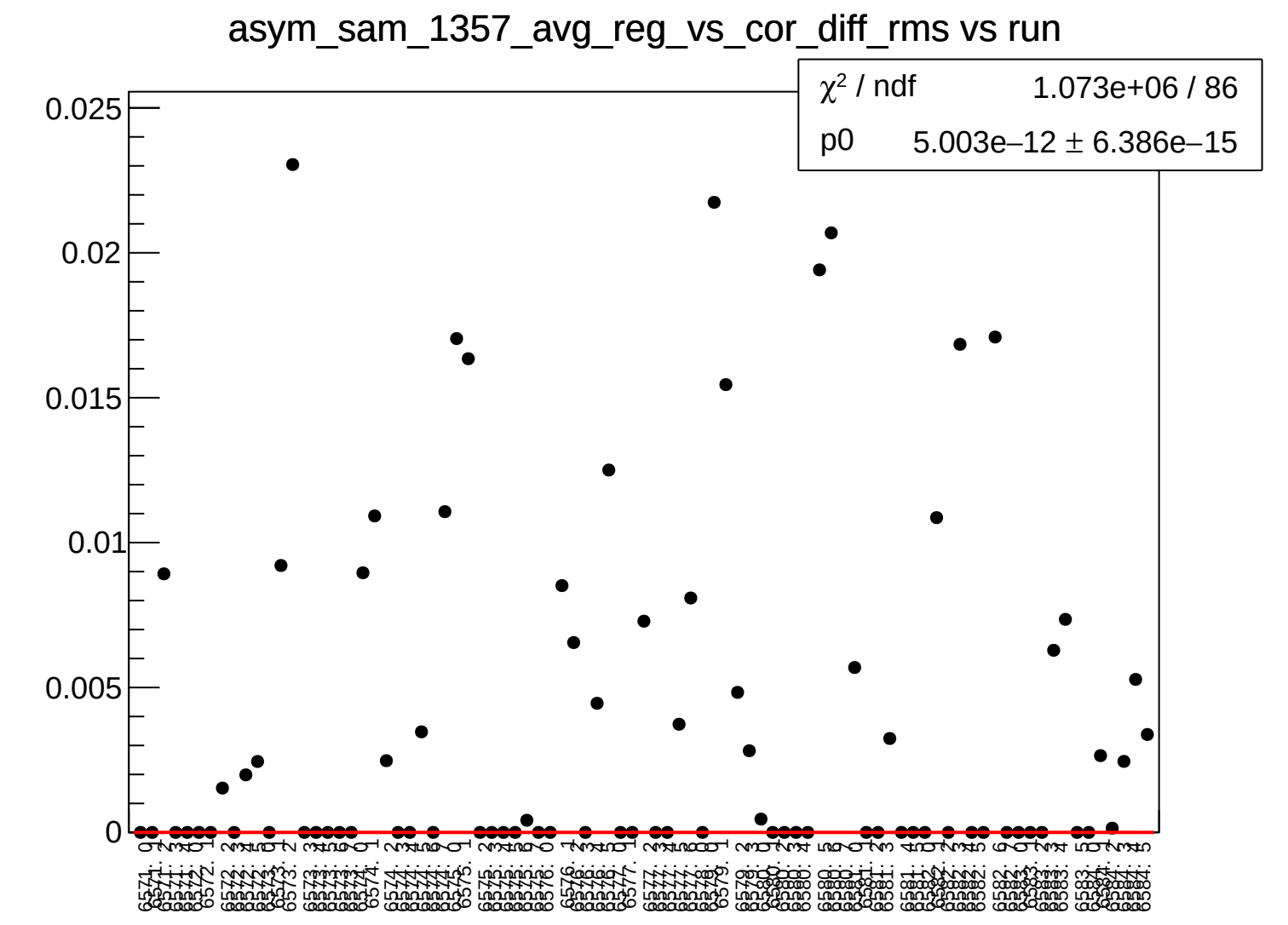

asym_sam_1357_avg_mean vs run
χ² / ndf 123.8 / 86
p0 612.5 ± 379.7
pull
Entries 87
Mean 775.3
Std Dev 0

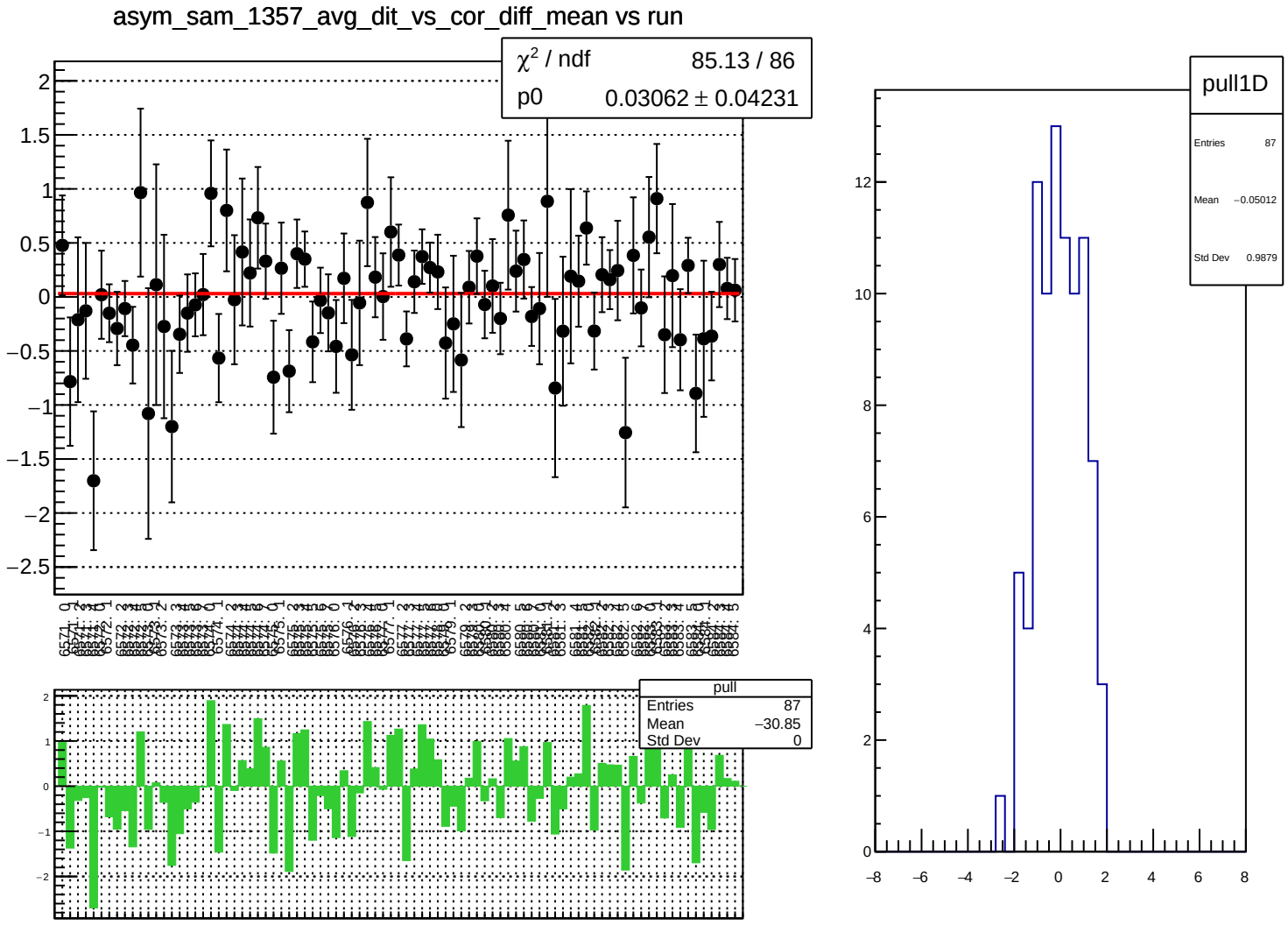

pull1D
Entries 87
Mean 0.001058
Std Dev 1.193

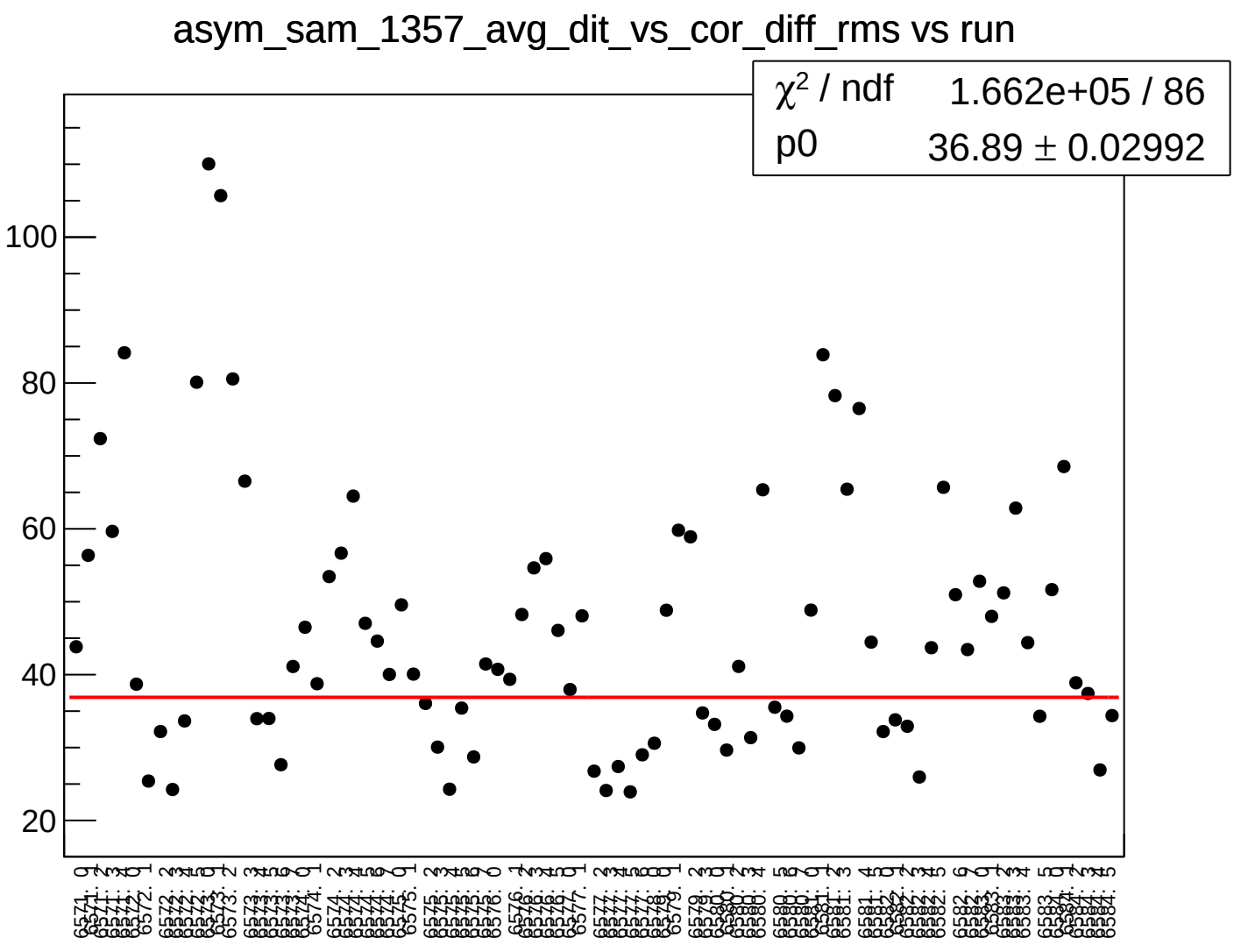

asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.64e+04 / 86
p0 347 ± 0.2685
460
440
420
400
380
360
340
320
300
280

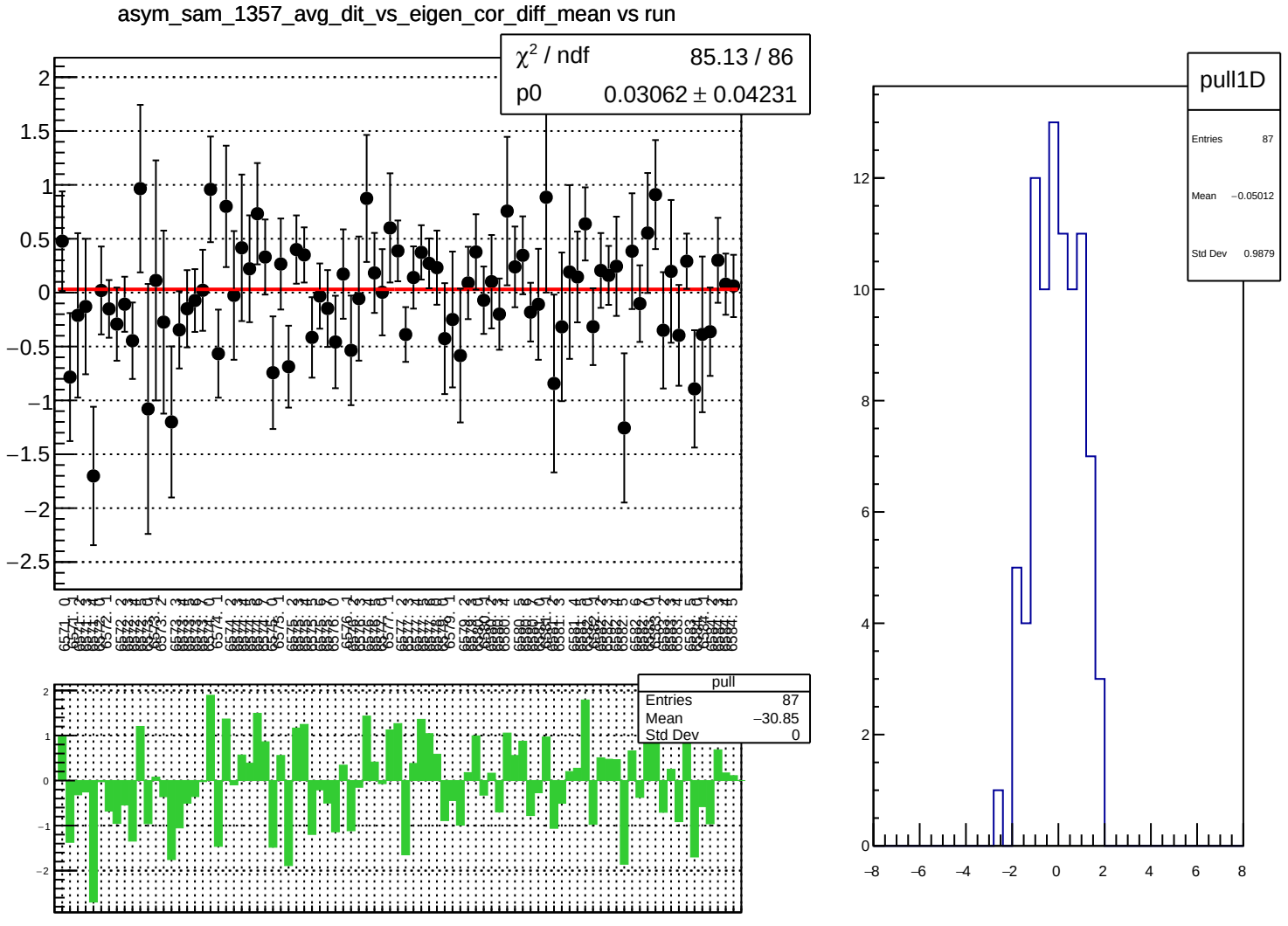

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 90.05 / 86
p0 8.873e−16 ± 9.031e−15
pull
Entries 87
Mean 13.94
Std Dev 23.15

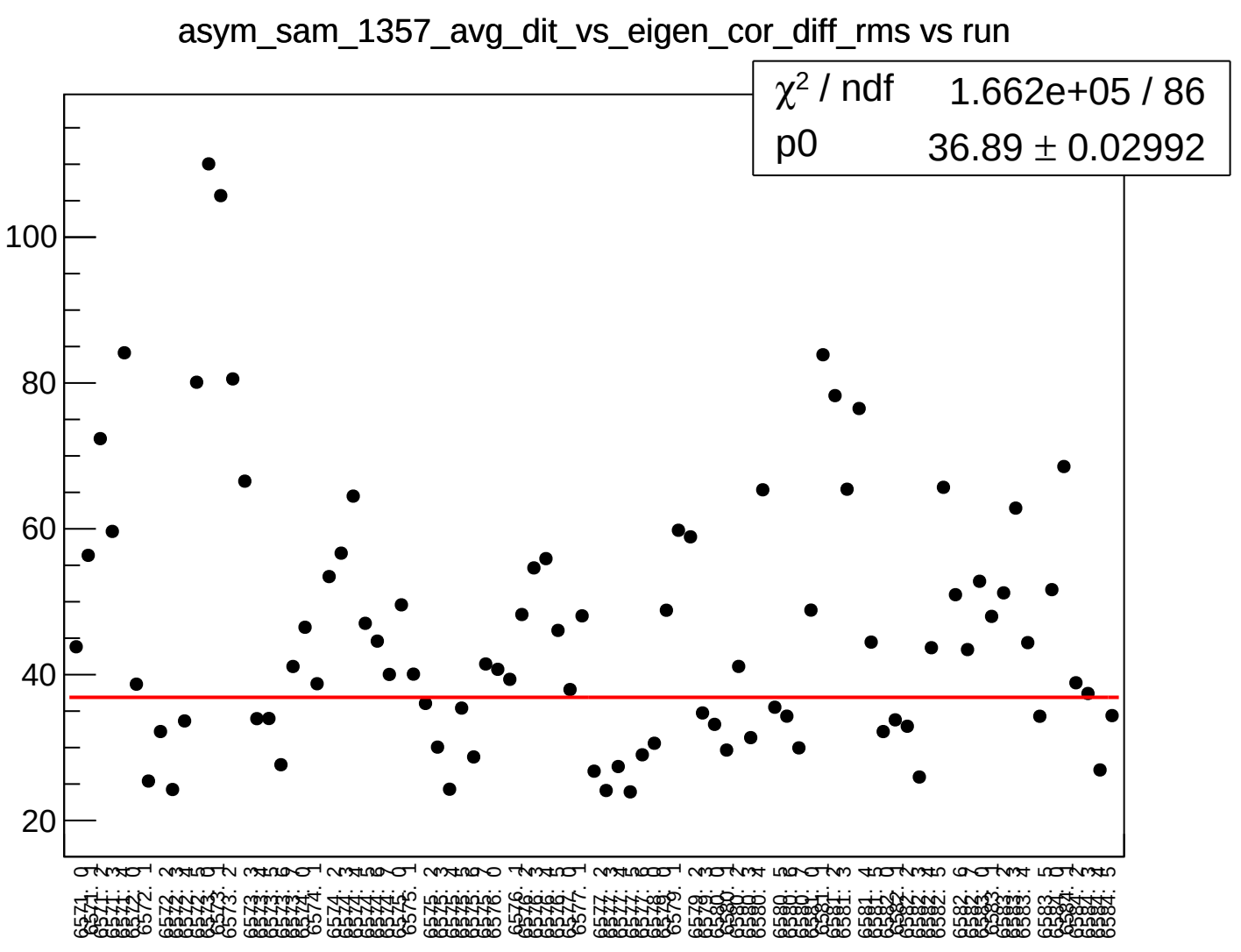

pull1D
Entries 87
Mean −0.08638
Std Dev 1.014

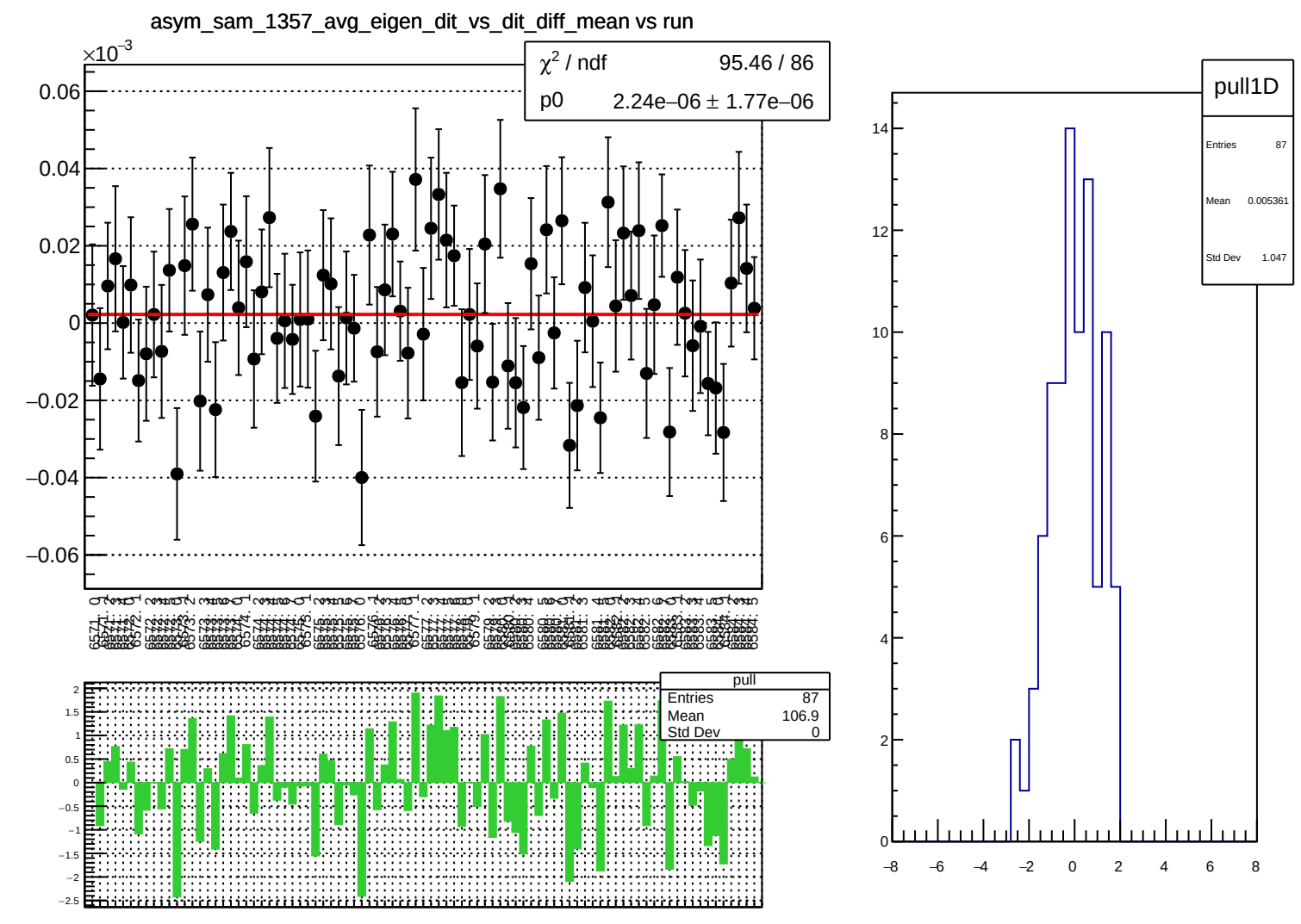

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.073e+06 / 86
p0 5.003e−12 ± 6.386e−15
0.025
0.02
0.015
0.01
0.005
0

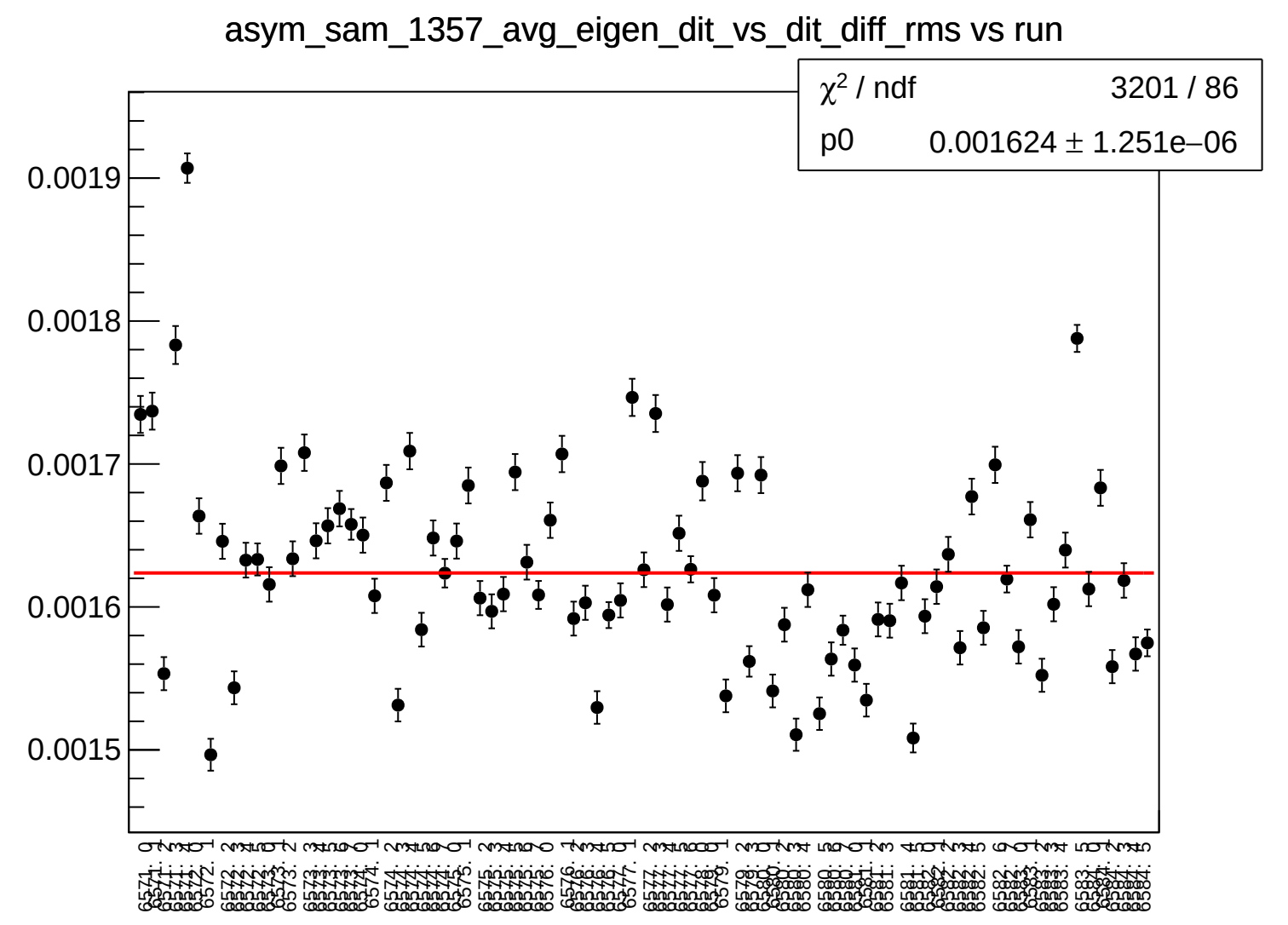

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.13 / 86
p0 0.03062 ± 0.04231
pull
Entries 87
Mean −30.85
Std Dev 0
pull1D
Entries 87
Mean −0.05012
Std Dev 0.9879

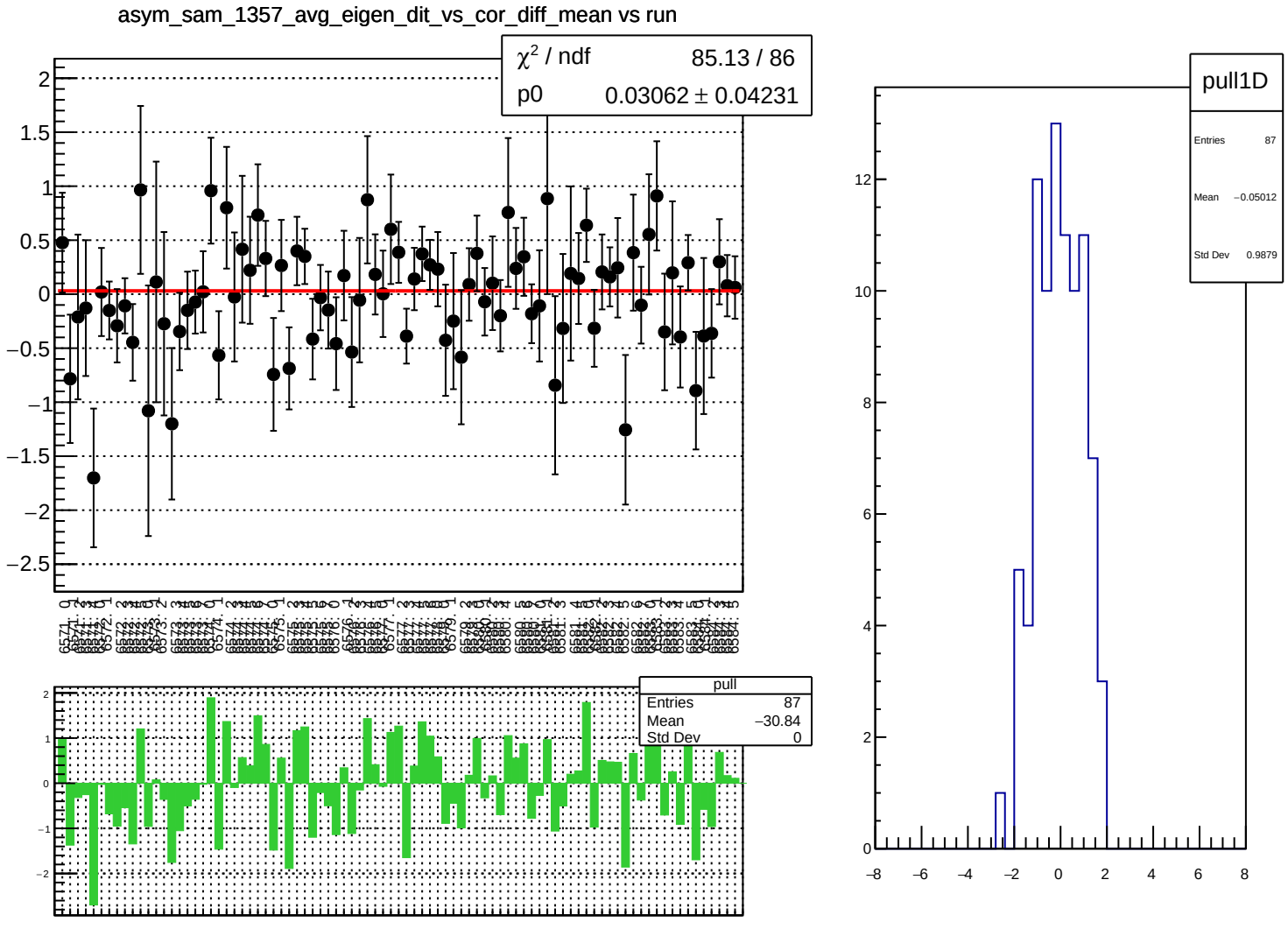

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.662e+05 / 86
p0 36.89 ± 0.02992
100
80
60
40
20

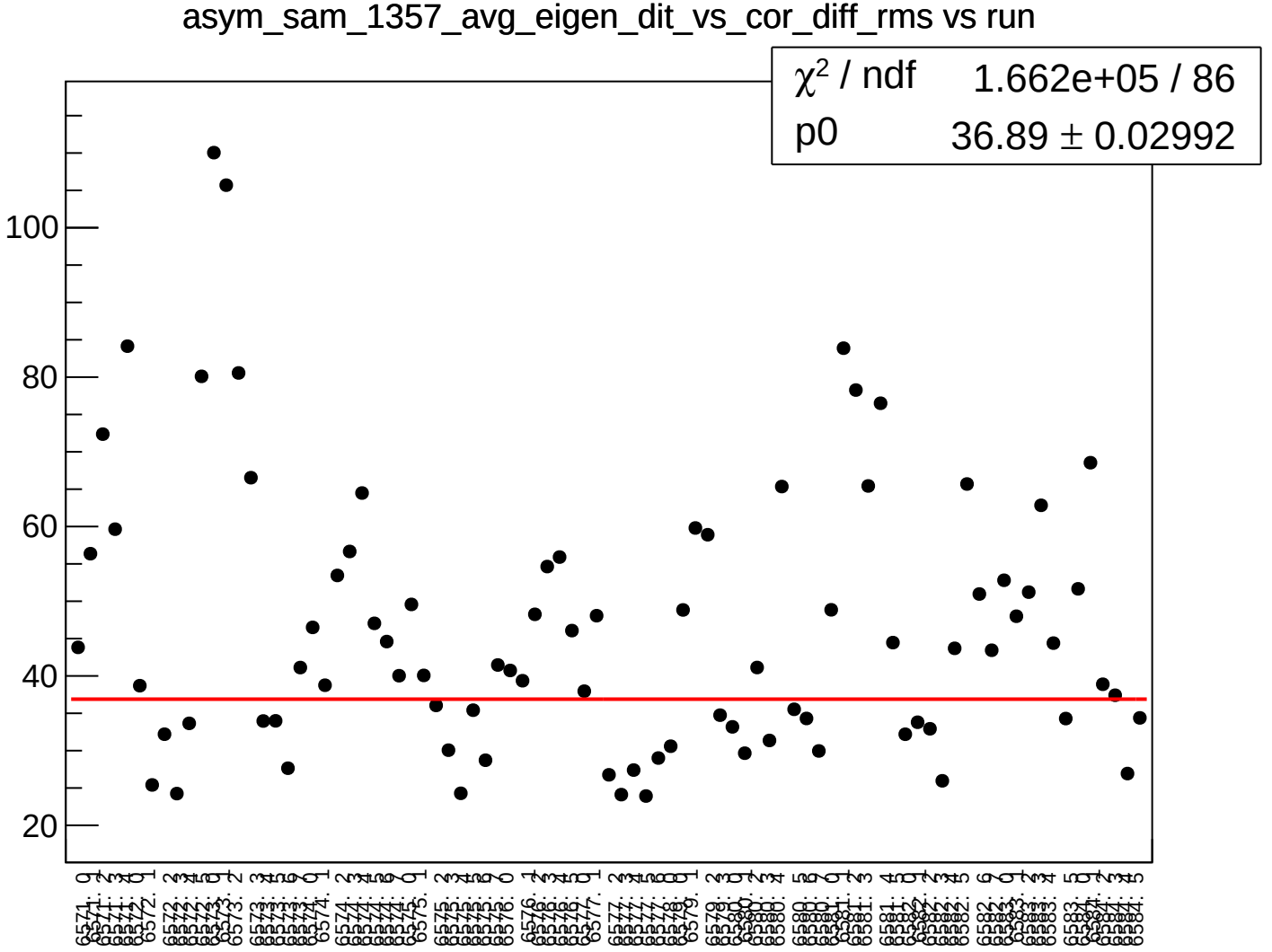

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.13 / 86
p0 0.03062 ± 0.04231
pull
Entries 87
Mean −30.85
Std Dev 0
pull1D
Entries 87
Mean −0.05012
Std Dev 0.9879

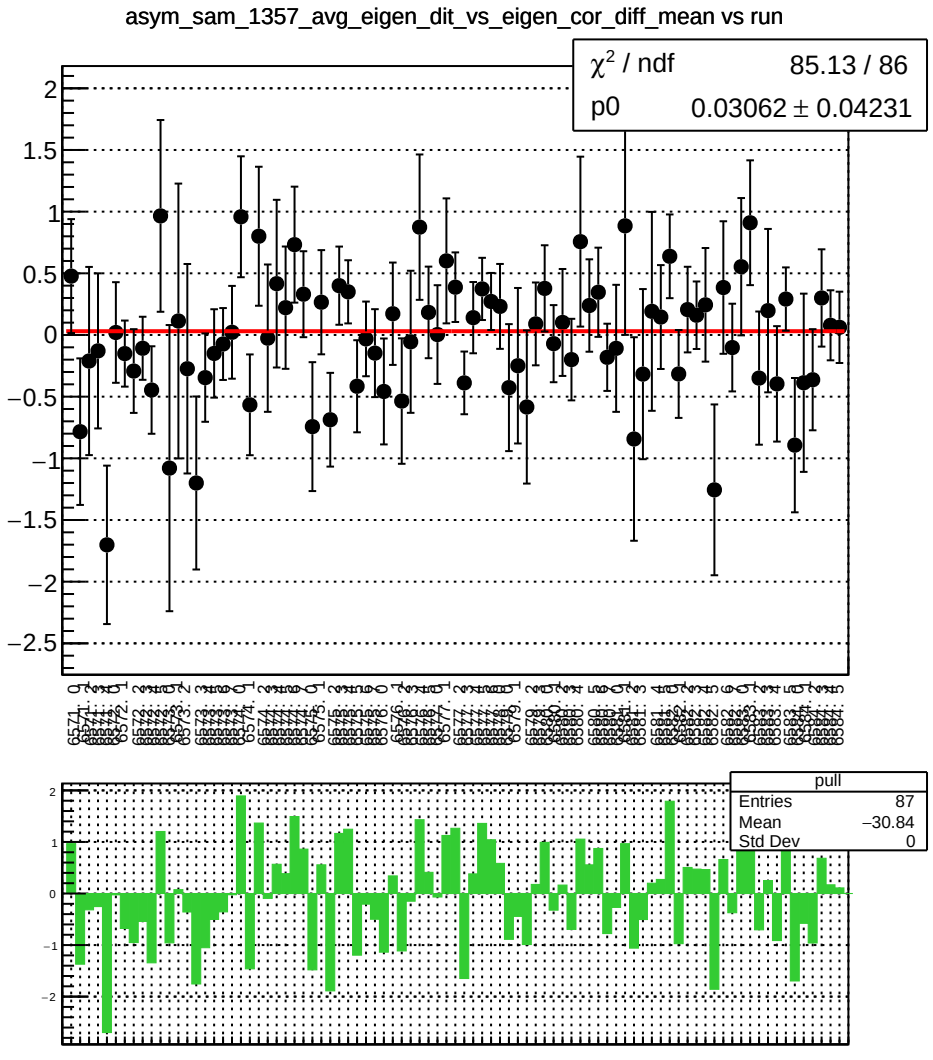

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.662e+05 / 86
p0 36.89 ± 0.02992
100
80
60
40
20

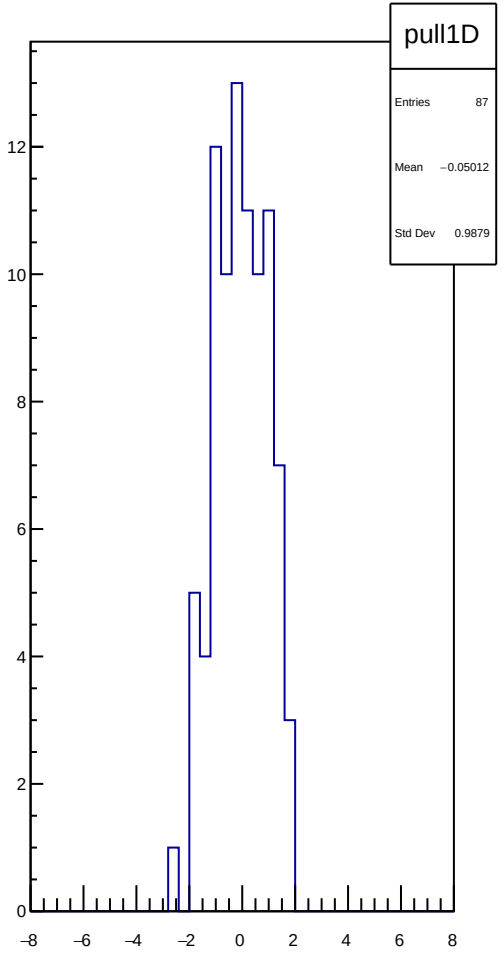

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 95.46 / 86
p0 2.24e−06 ± 1.77e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean 106.9
Std Dev 0
pull1D
Entries 87
Mean 0.005361
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

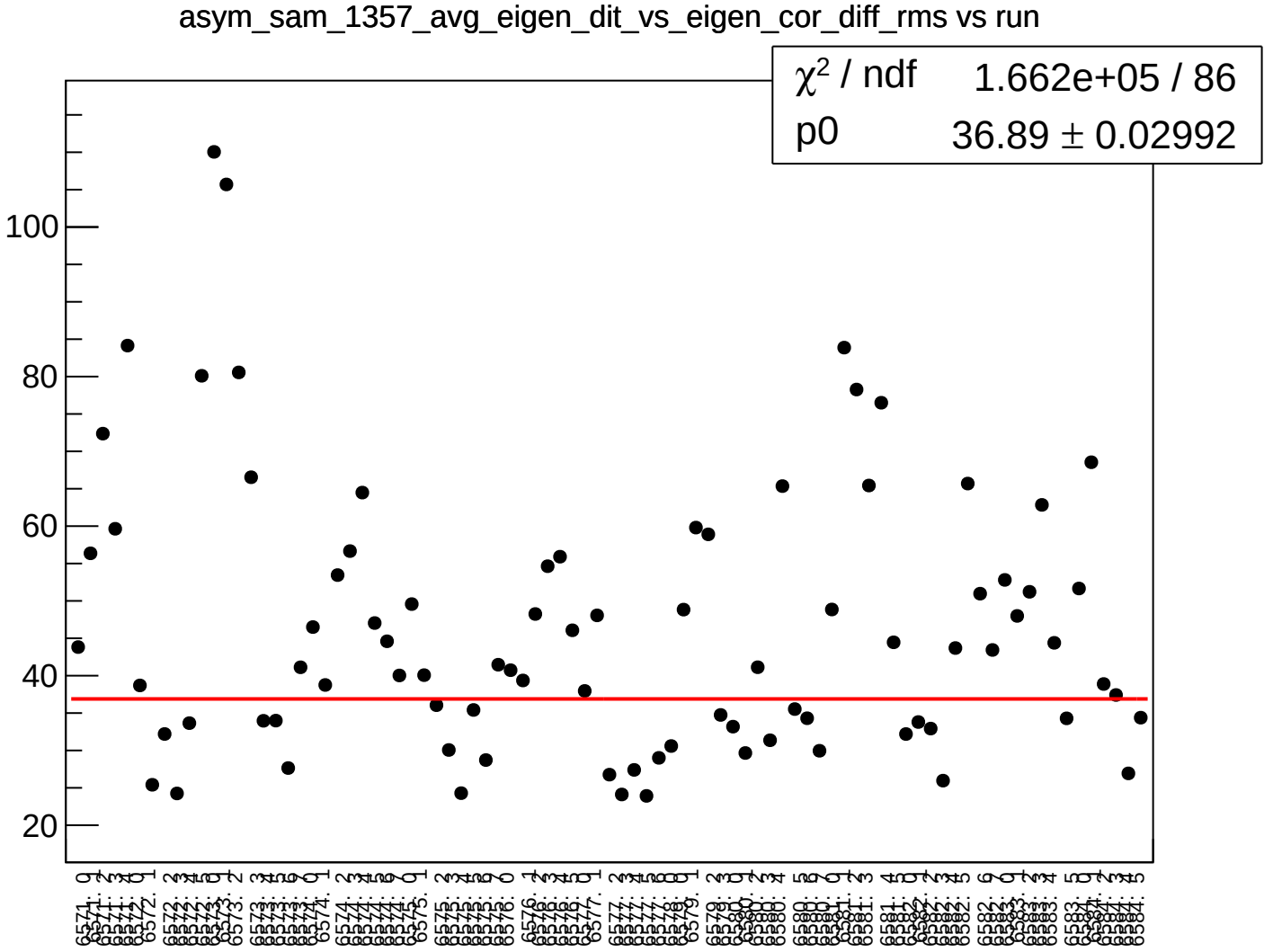

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3201 / 86
p0 0.001624 ± 1.251e−06
0.0019
0.0018
0.0017
0.0016
0.0015

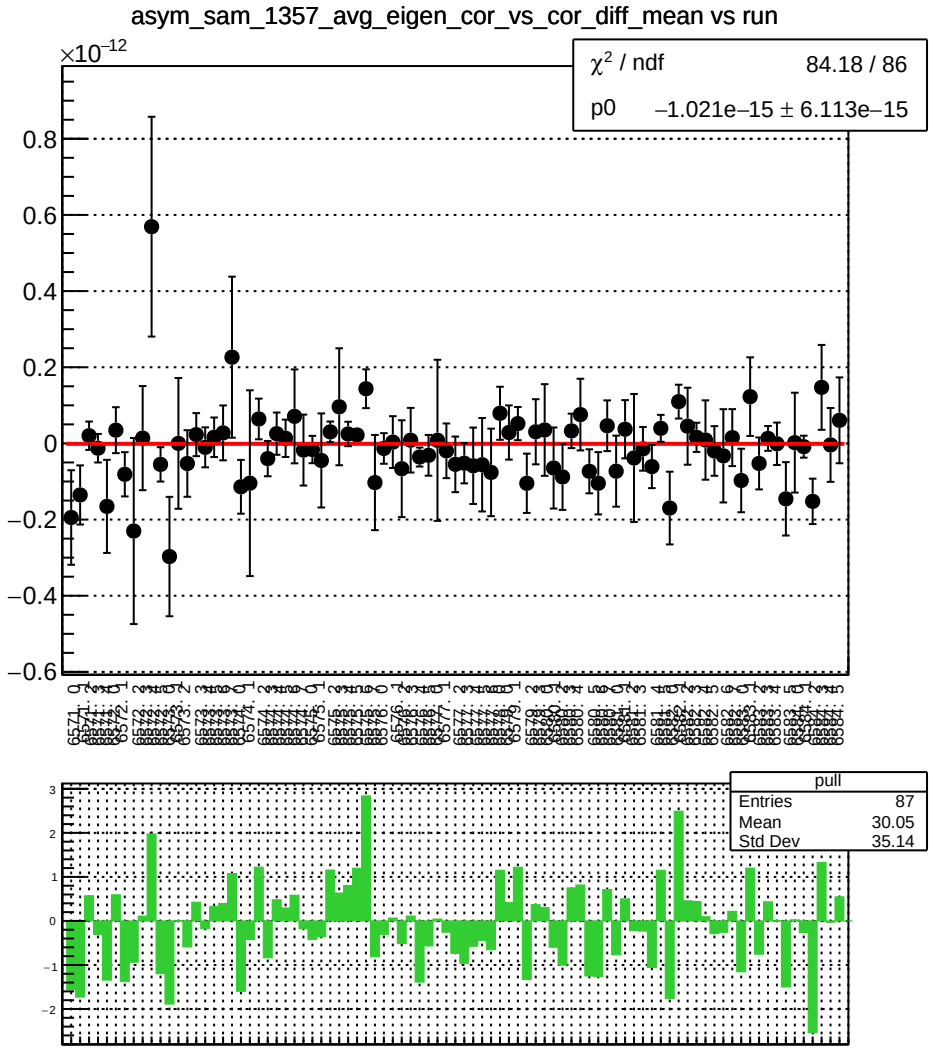

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.13 / 86
p0 0.03062 ± 0.04231
pull
Entries 87
Mean −30.84
Std Dev 0
pull1D
Entries 87
Mean −0.05012
Std Dev 0.9879

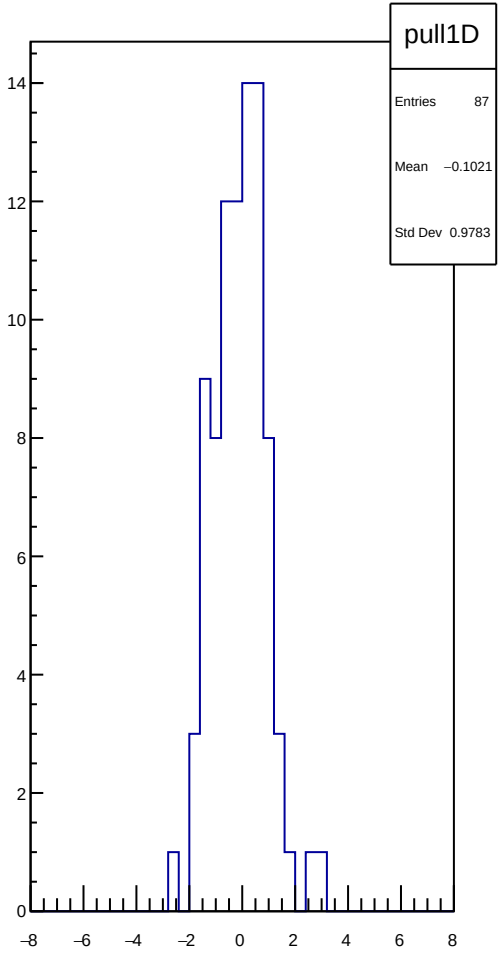

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.662e+05 / 86
p0 36.89 ± 0.02992
100
80
60
40
20

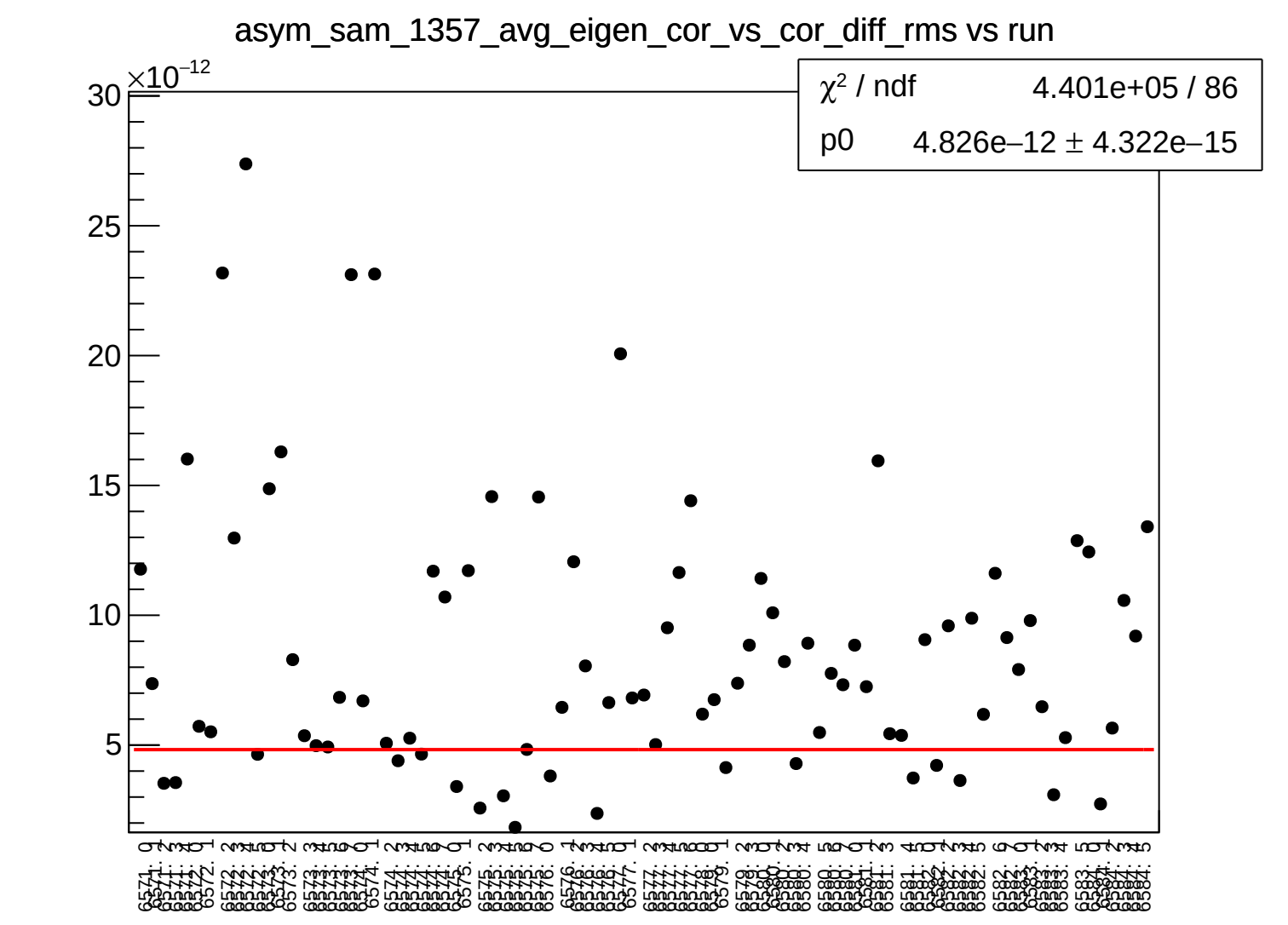

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.13 / 86
p0 0.03062 ± 0.04231
pull
Entries 87
Mean −30.84
Std Dev 0

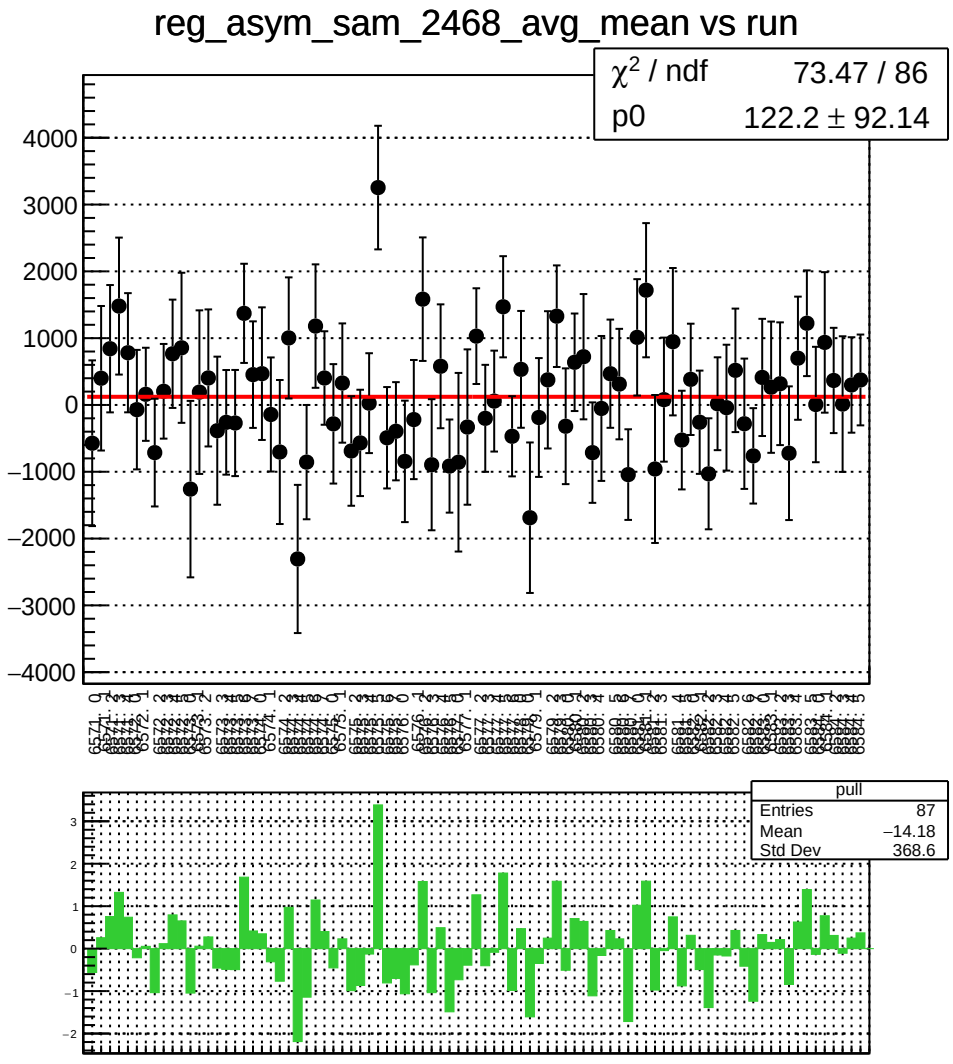

pull1D
Entries 87
Mean −0.05012
Std Dev 0.9879

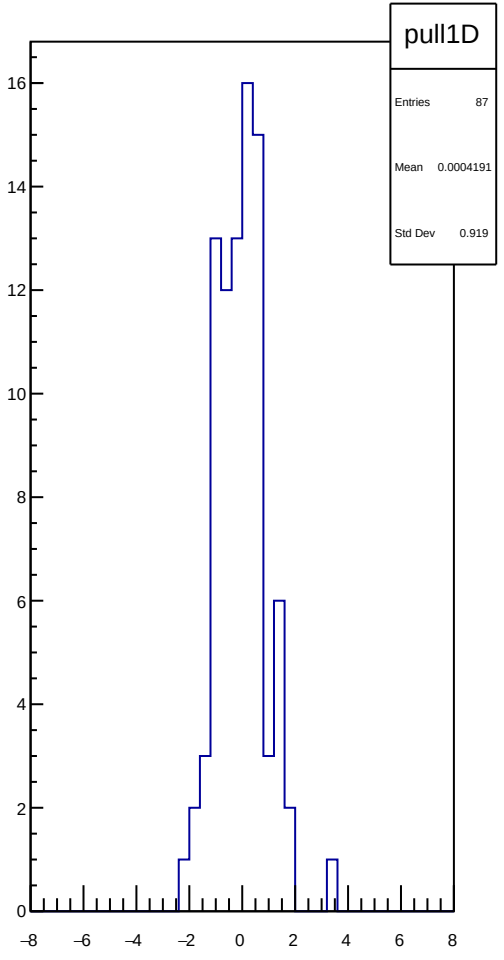

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.662e+05 / 86
p0 36.89 ± 0.02992
100
80
60
40
20

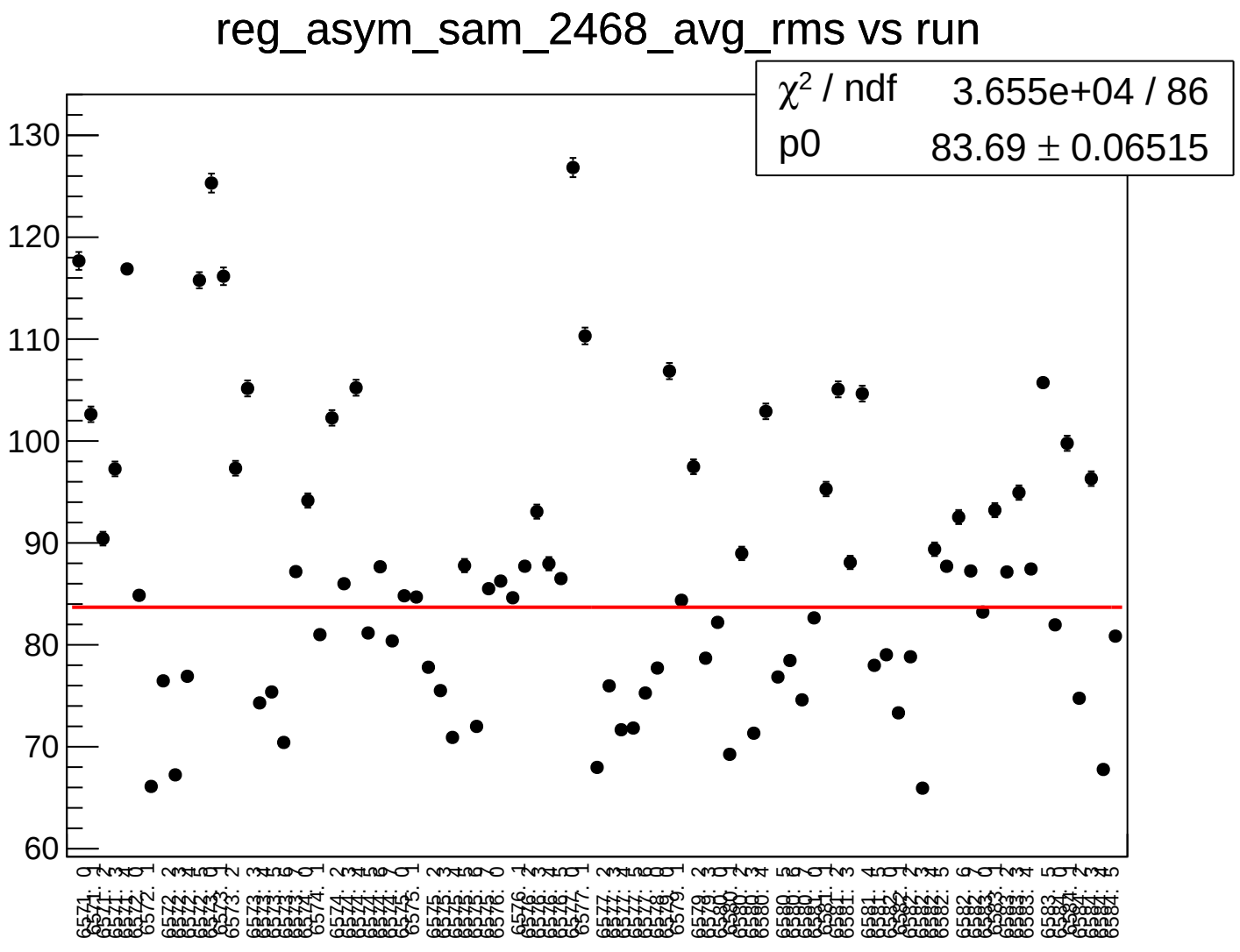

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.18 / 86
p0 −1.021e−15 ± 6.113e−15
pull
Entries 87
Mean 30.05
Std Dev 35.14

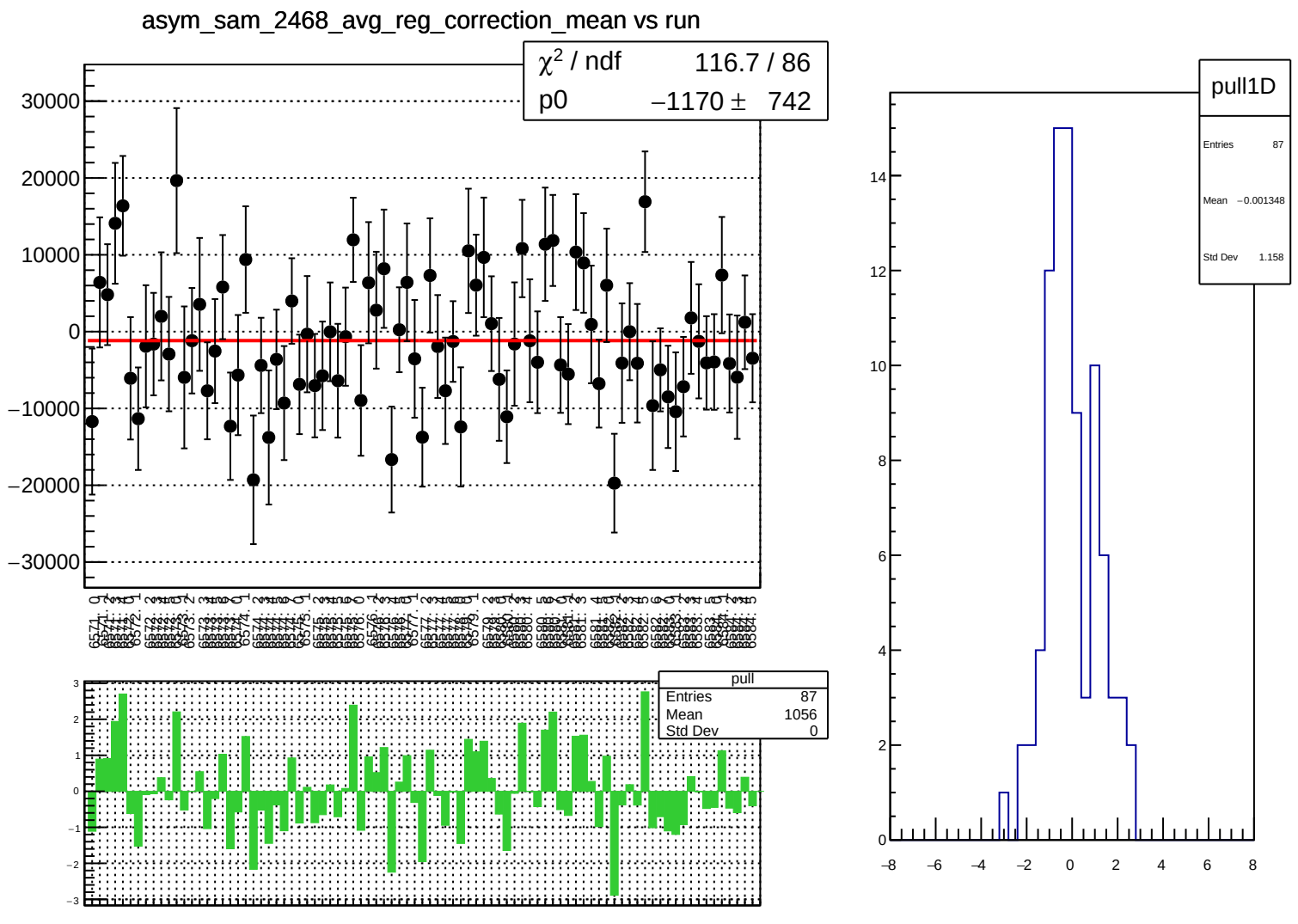

pull1D
Entries 87
Mean −0.1021
Std Dev 0.9783

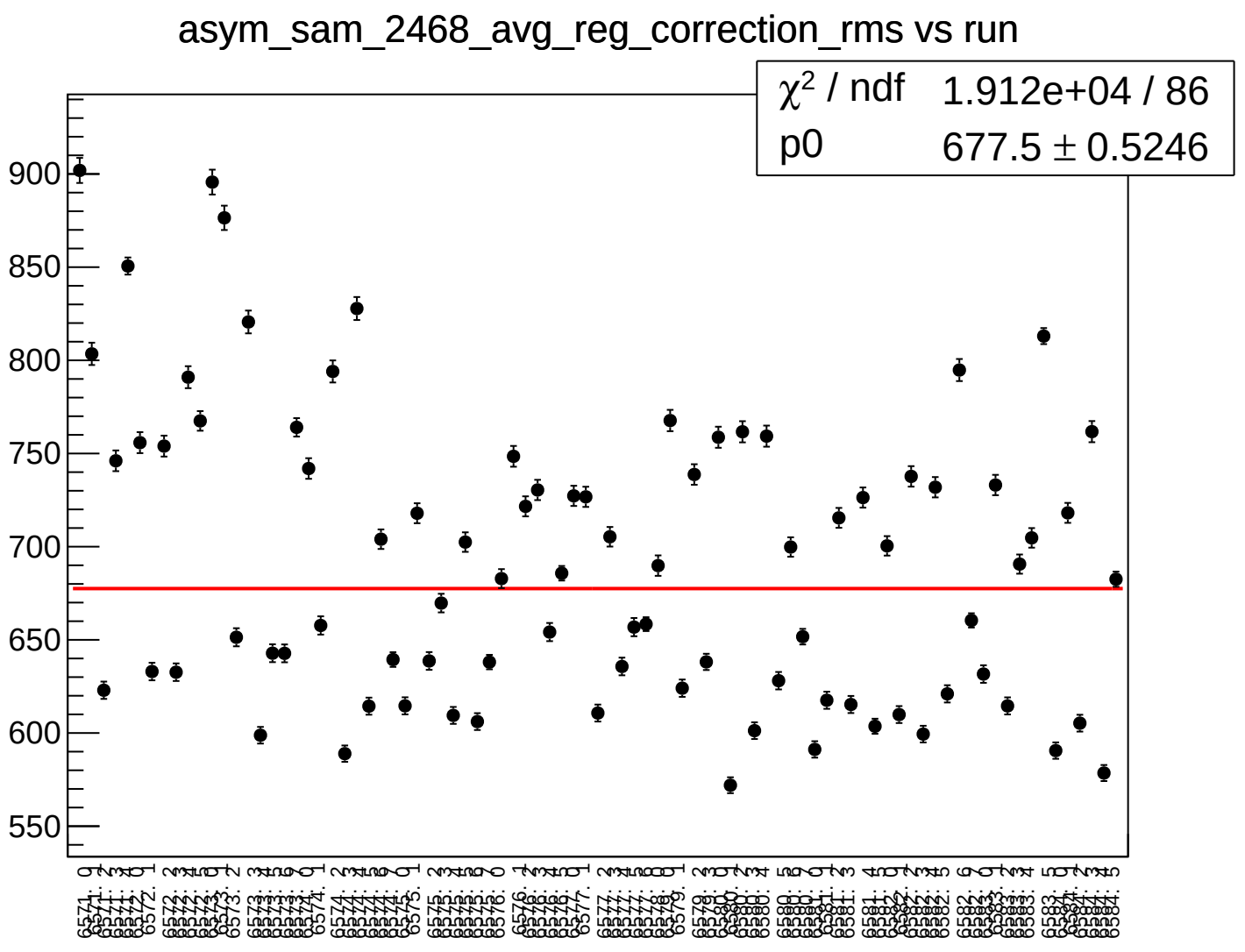

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
30
25
20
15
10
5
χ² / ndf 4.401e+05 / 86
p0 4.826e−12 ± 4.322e−15

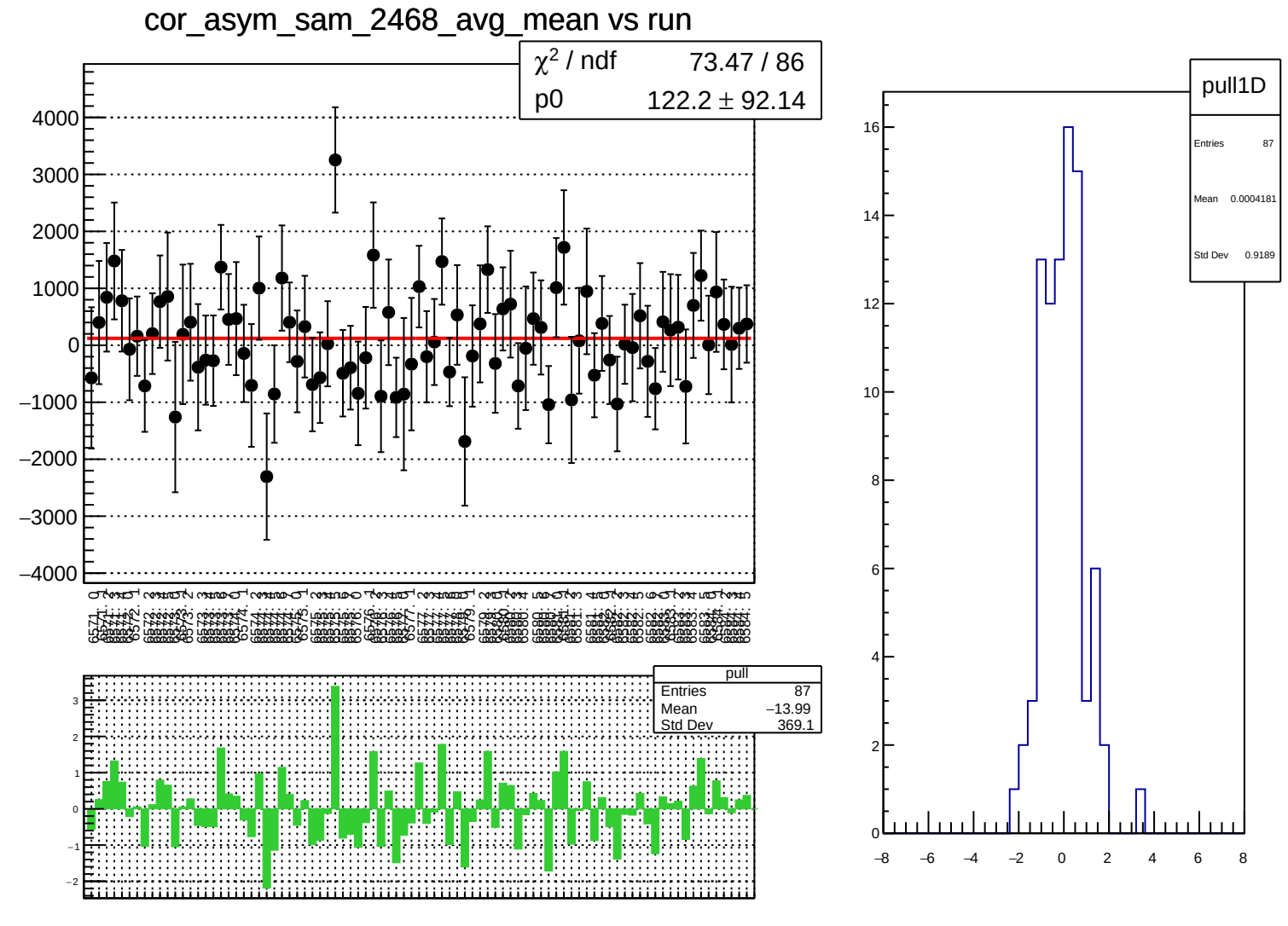

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 73.47 / 86
p0 122.2 ± 92.14
pull
Entries 87
Mean −14.18
Std Dev 368.6

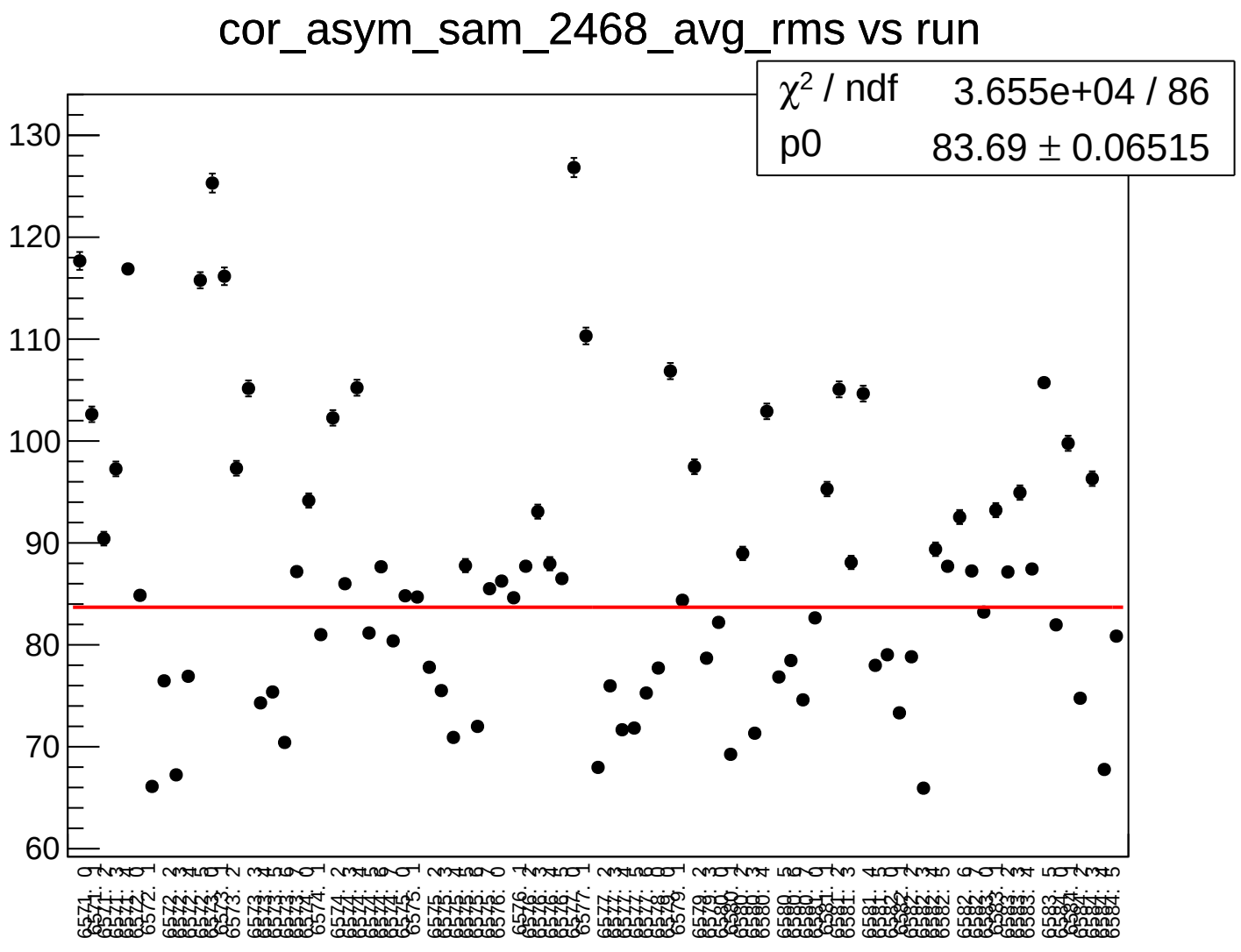

pull1D
Entries 87
Mean 0.0004191
Std Dev 0.919

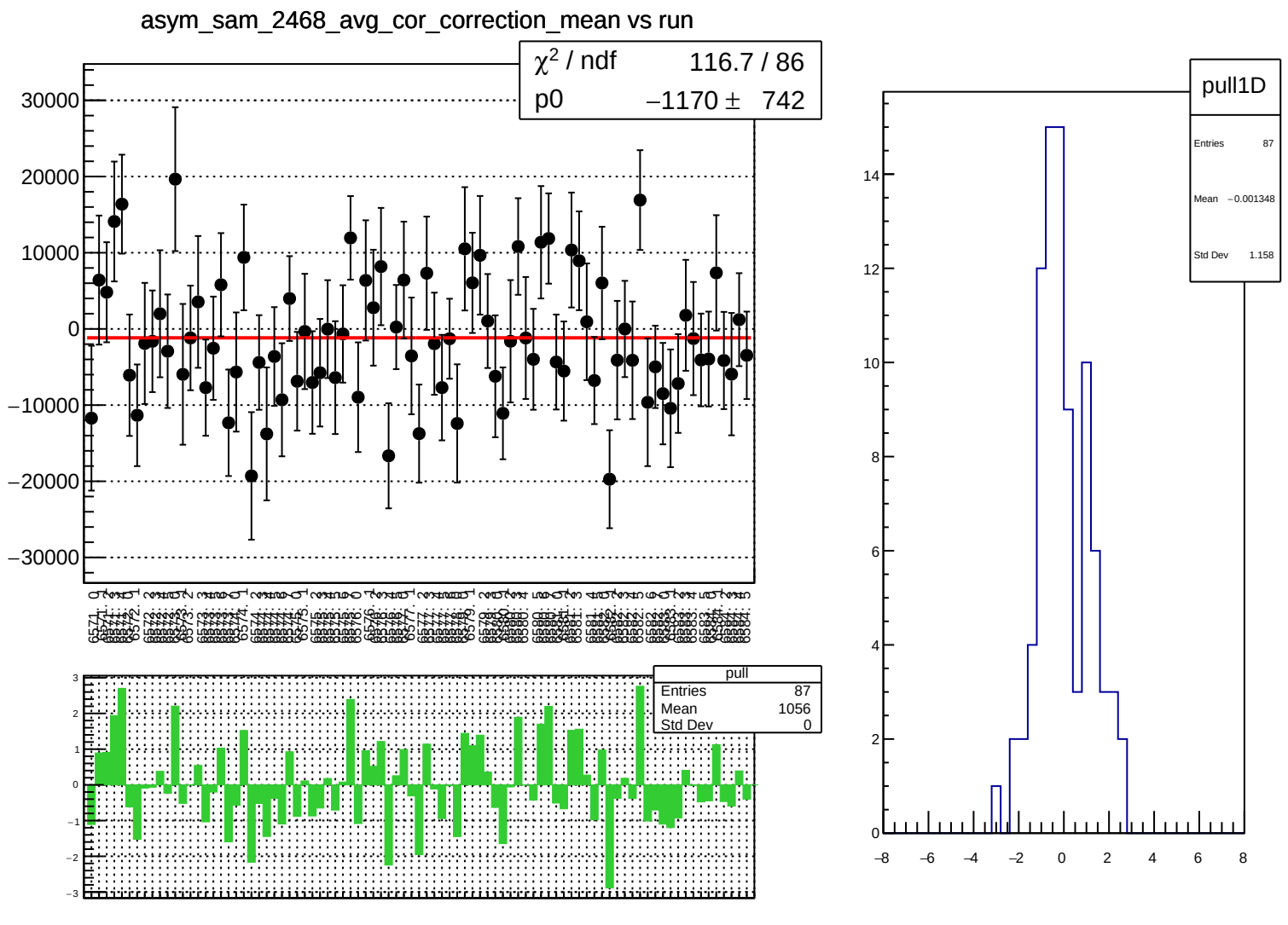

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3.655e+04 / 86
p0 83.69 ± 0.06515
130
120
110
100
90
80
70
60

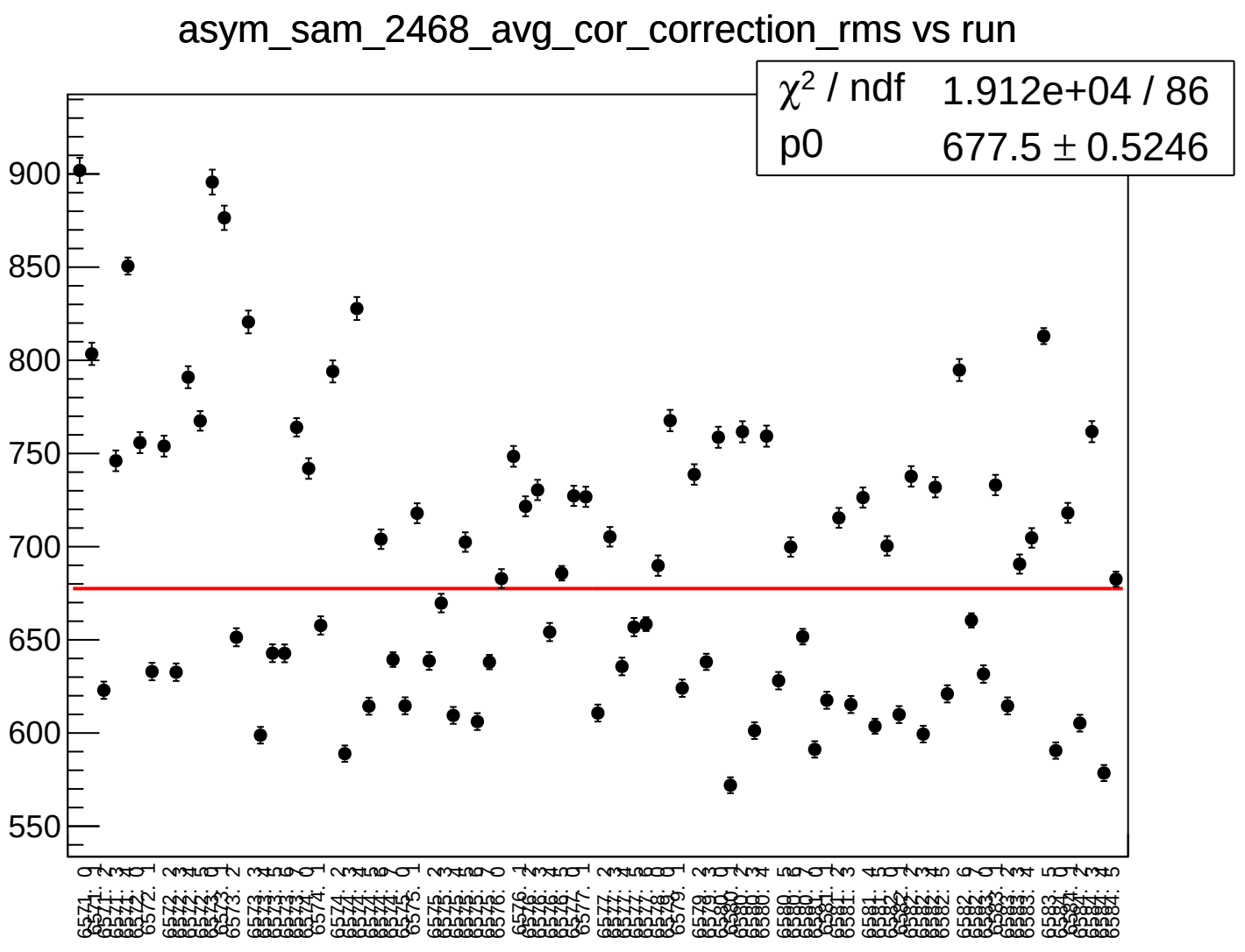

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 116.7 / 86
p0 −1170 ± 742
pull
Entries 87
Mean 1056
Std Dev 0
pull1D
Entries 87
Mean −0.001348
Std Dev 1.158

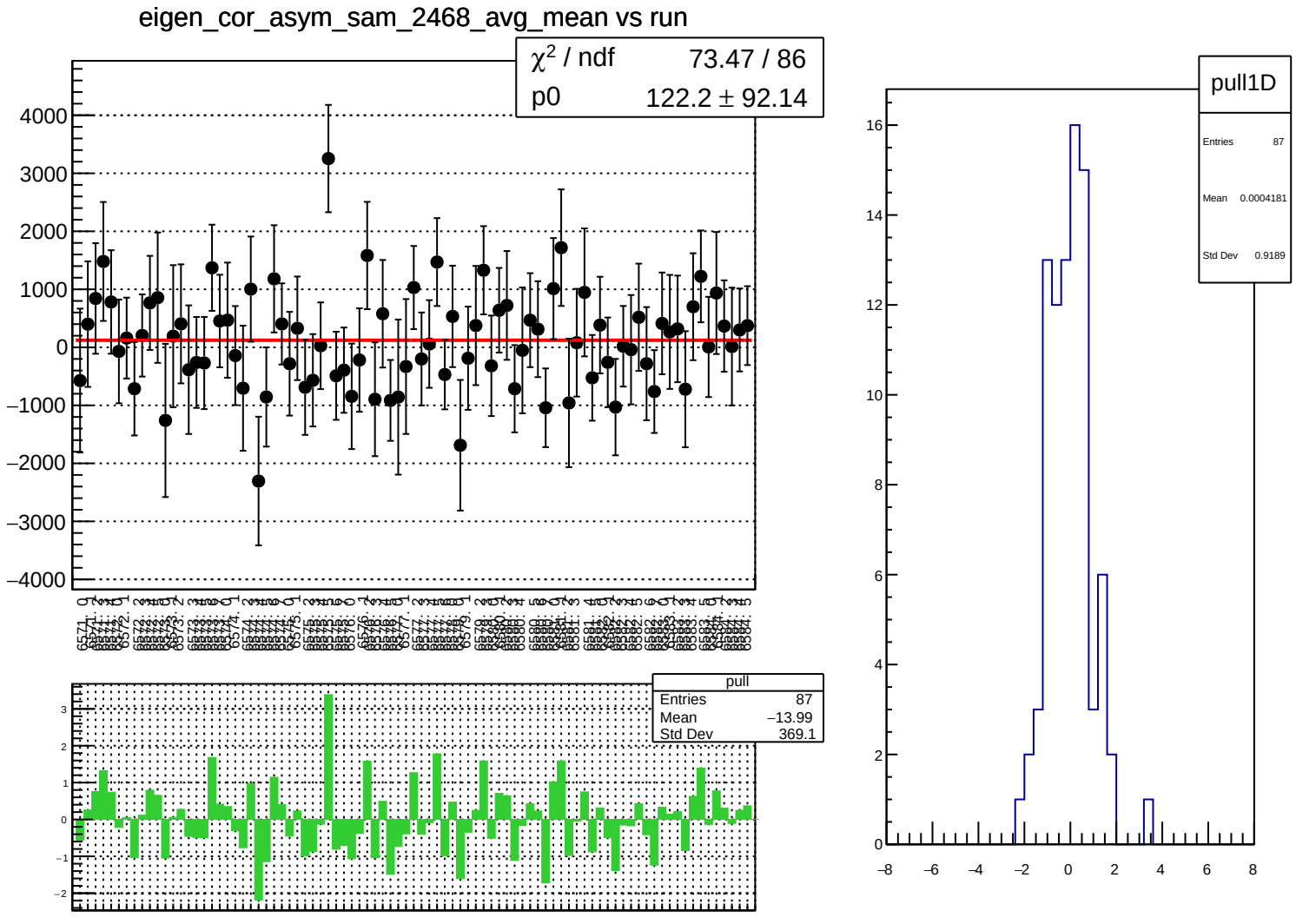

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.912e+04 / 86
p0 677.5 ± 0.5246
900
850
800
750
700
650
600
550

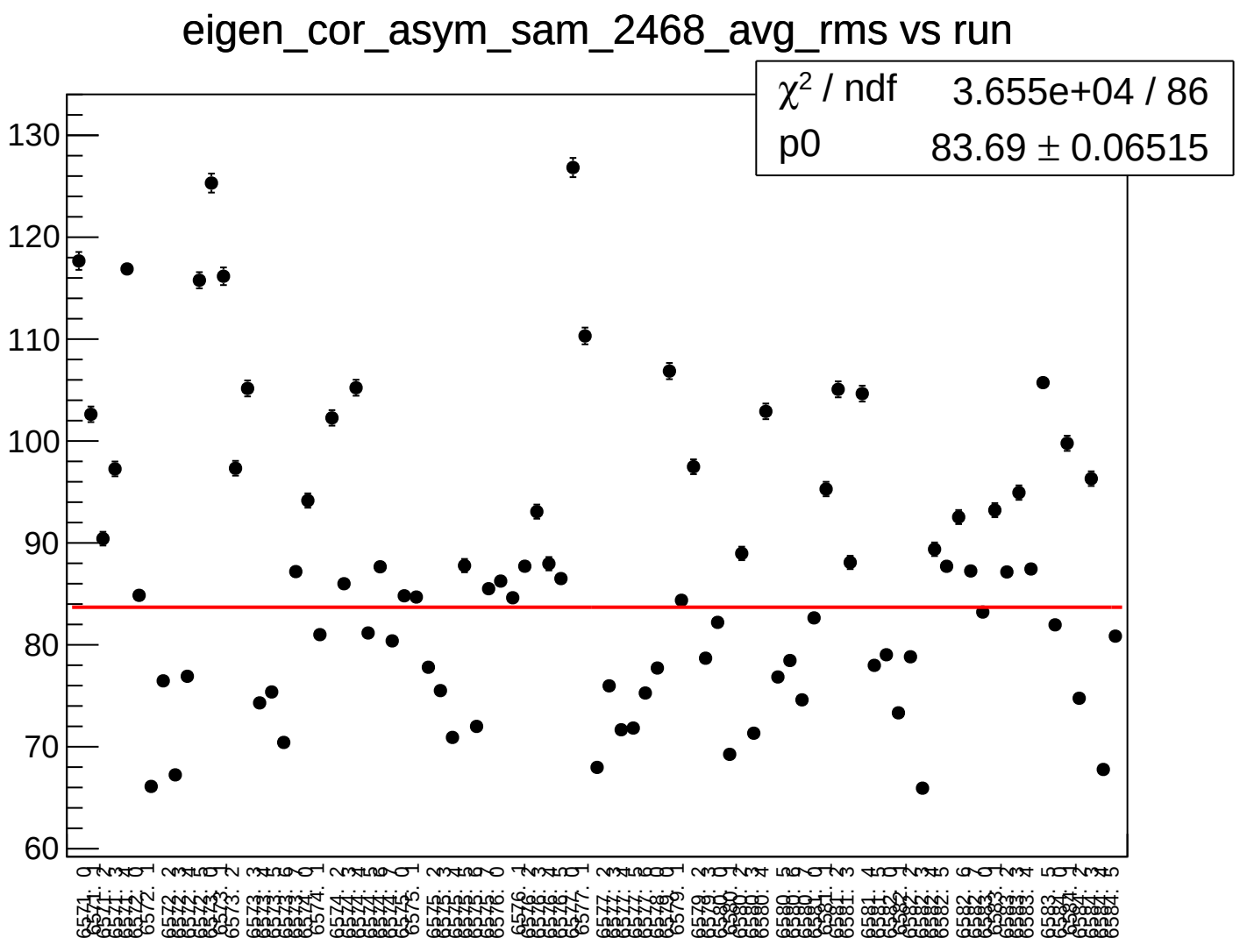

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 73.47 / 86
p0 122.2 ± 92.14
pull
Entries 87
Mean −13.99
Std Dev 369.1
pull1D
Entries 87
Mean 0.0004181
Std Dev 0.9189

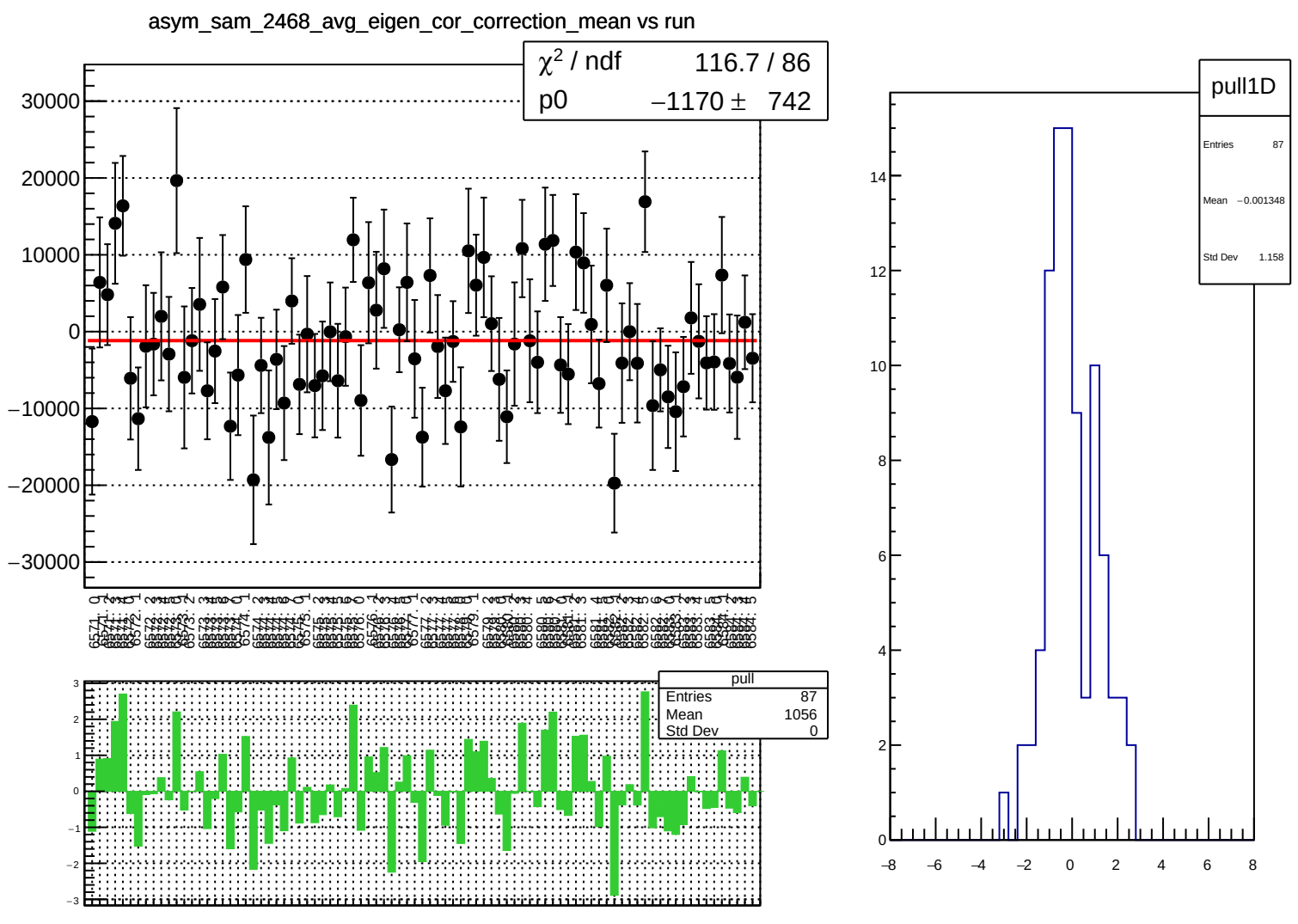

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3.655e+04 / 86
p0 83.69 ± 0.06515
130
120
110
100
90
80
70
60

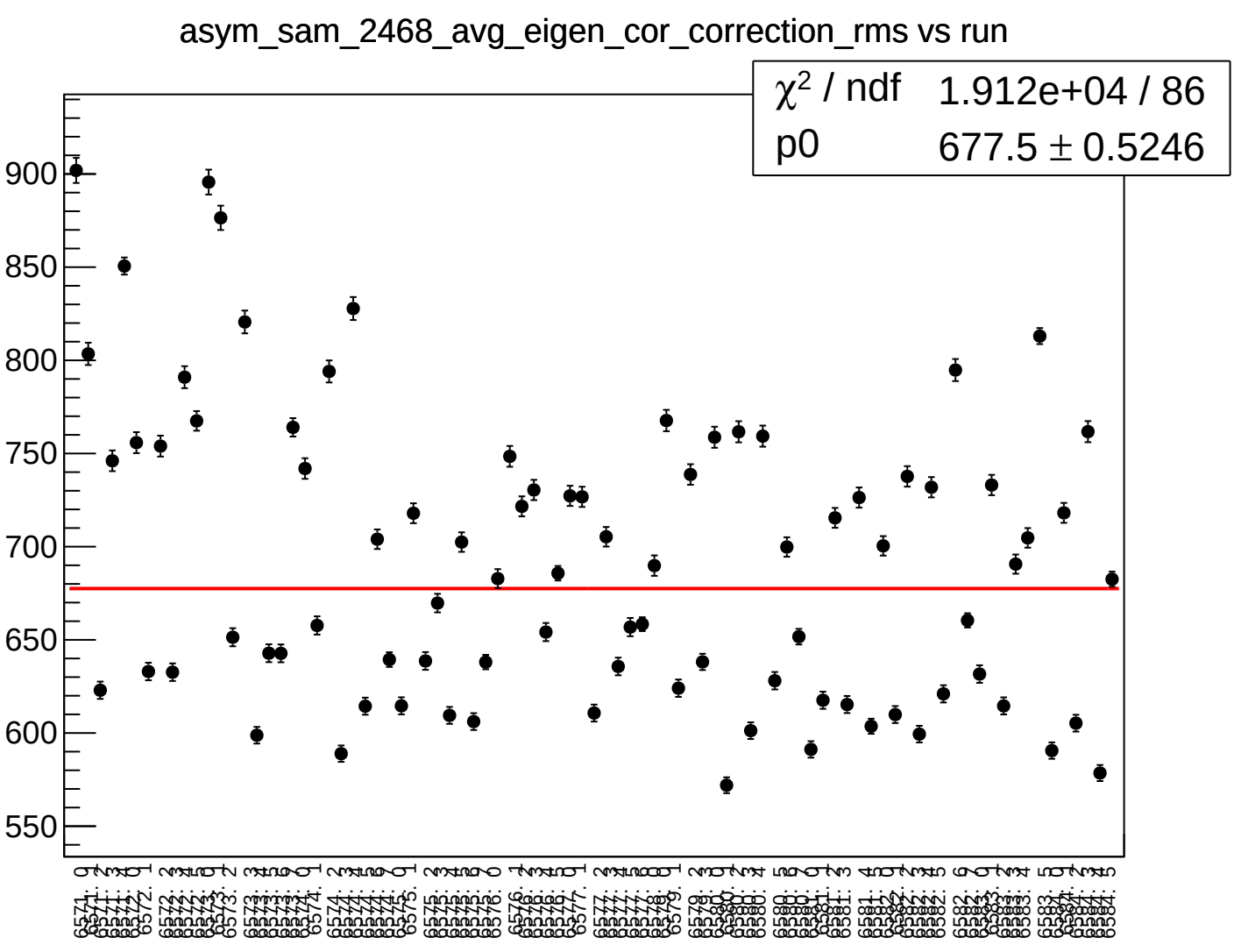

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 116.7 / 86
p0 −1170 ± 742
pull
Entries 87
Mean 1056
Std Dev 0
pull1D
Entries 87
Mean −0.001348
Std Dev 1.158

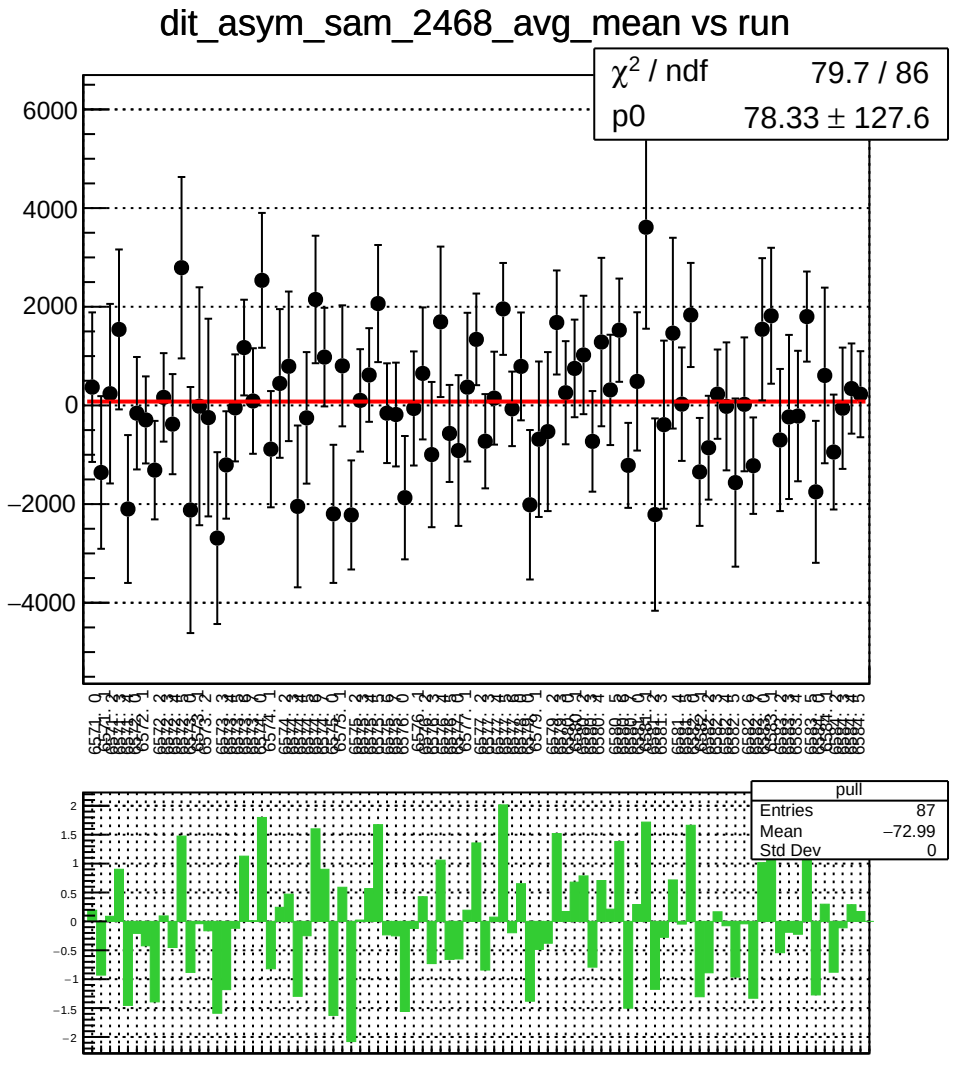

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.912e+04 / 86
p0 677.5 ± 0.5246
900
850
800
750
700
650
600
550

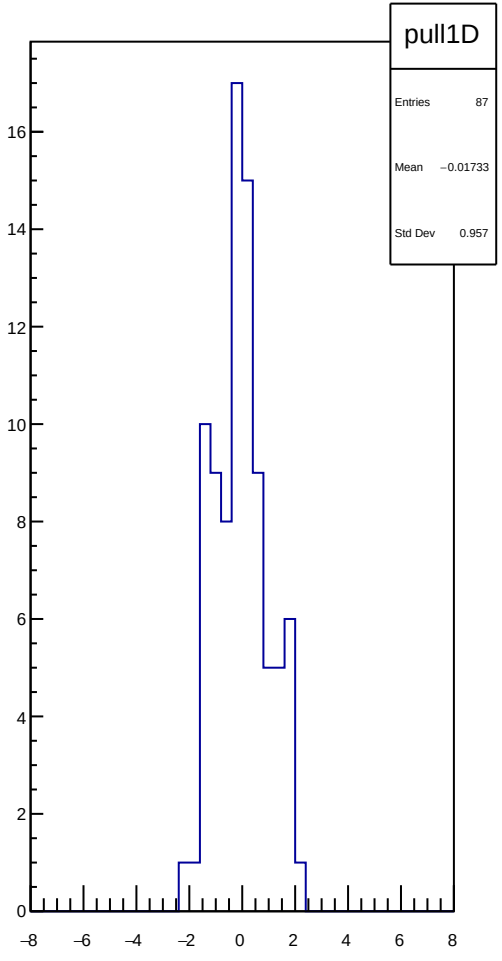

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 73.47 / 86
p0 122.2 ± 92.14
pull
Entries 87
Mean −13.99
Std Dev 369.1
pull1D
Entries 87
Mean 0.0004181
Std Dev 0.9189

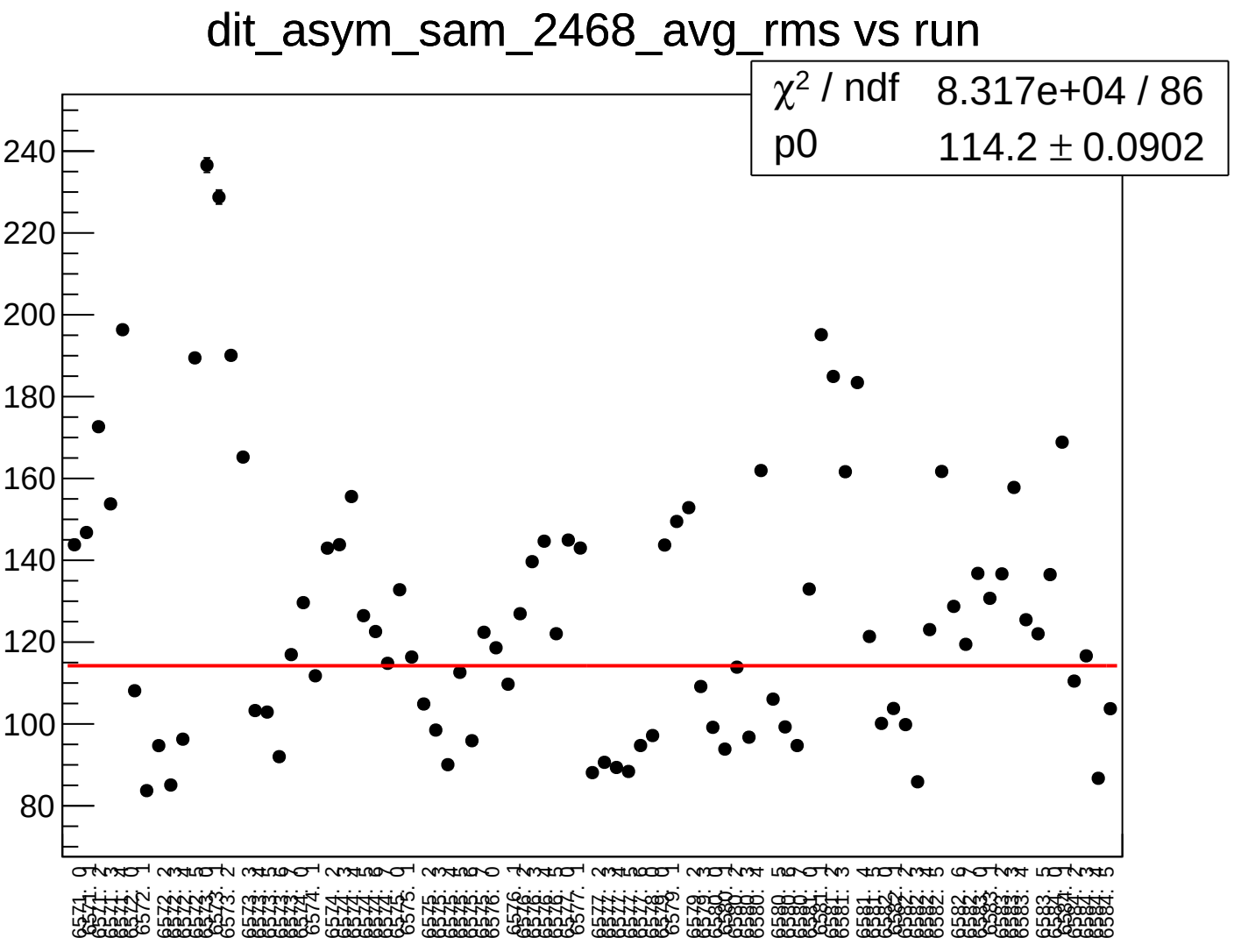

eigen_cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3.655e+04 / 86
p0 83.69 ± 0.06515
130
120
110
100
90
80
70
60

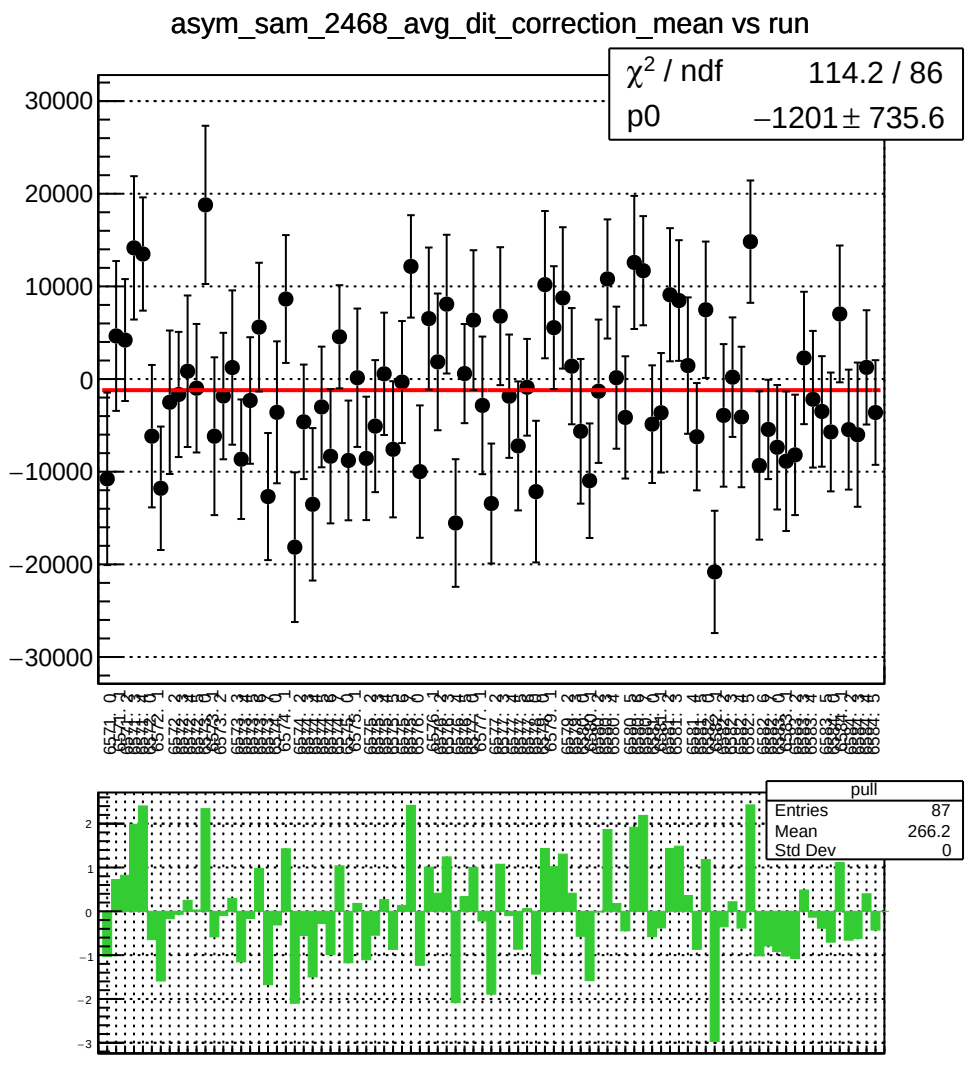

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 116.7 / 86
p0 −1170 ± 742
pull
Entries 87
Mean 1056
Std Dev 0
pull1D
Entries 87
Mean −0.001348
Std Dev 1.158

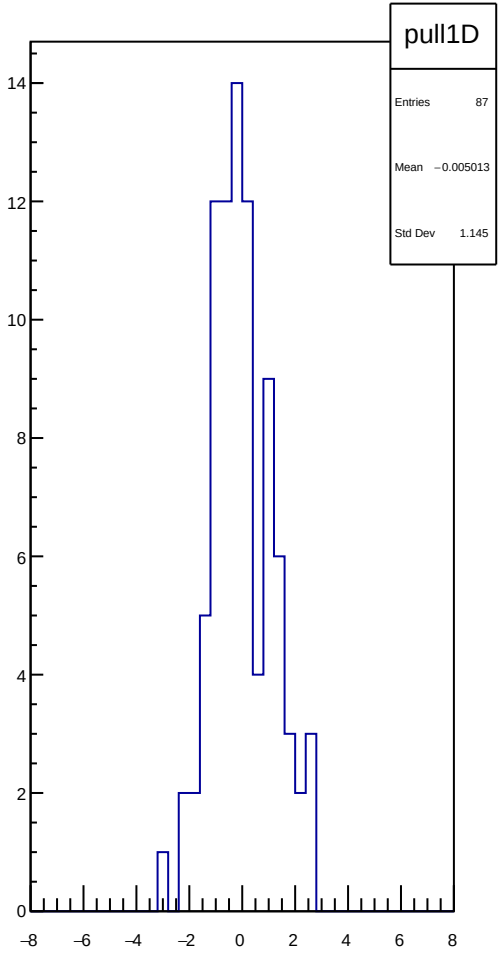

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.912e+04 / 86
p0 677.5 ± 0.5246
900
850
800
750
700
650
600
550

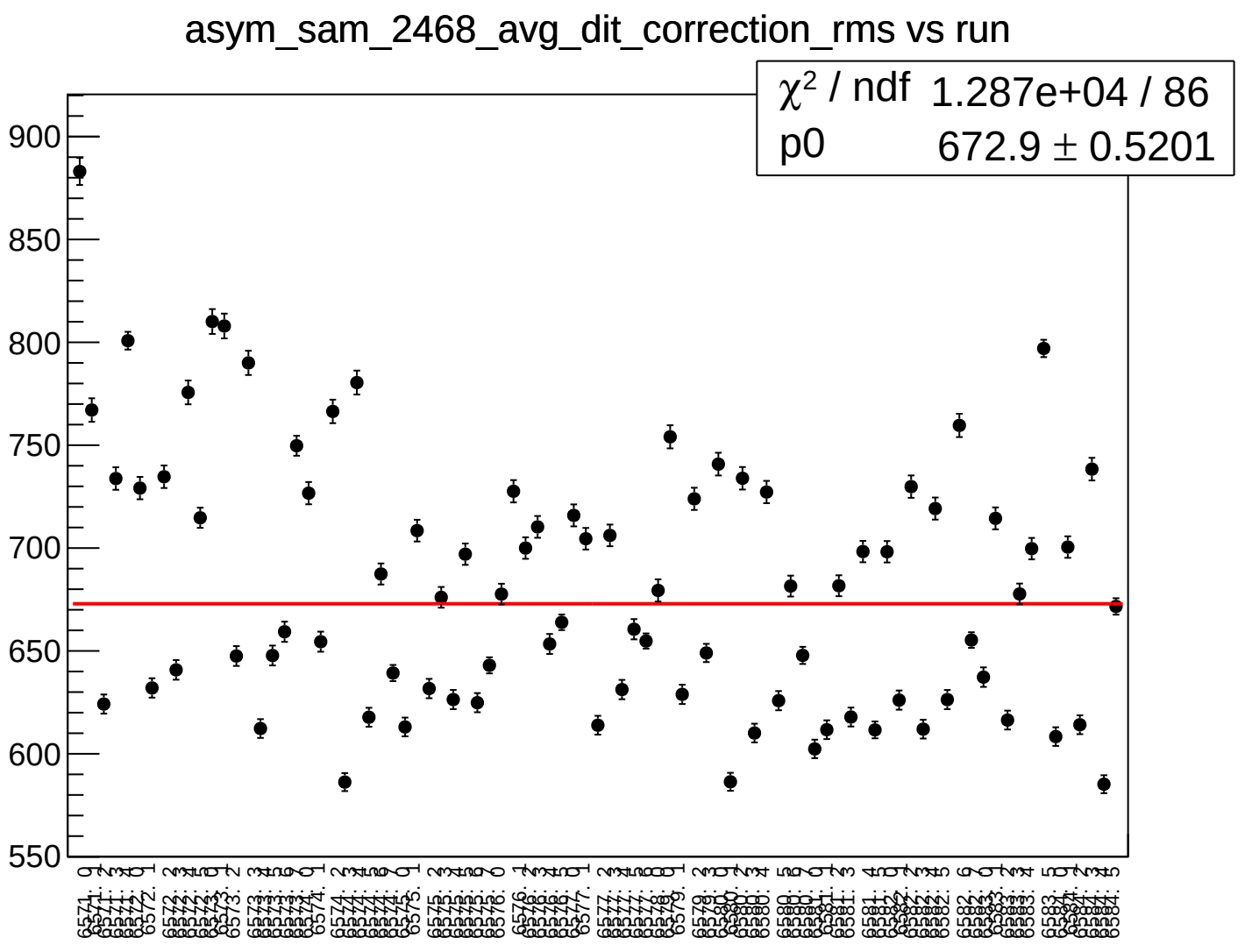

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 79.7 / 86
p0 78.33 ± 127.6
pull
Entries 87
Mean −72.99
Std Dev 0

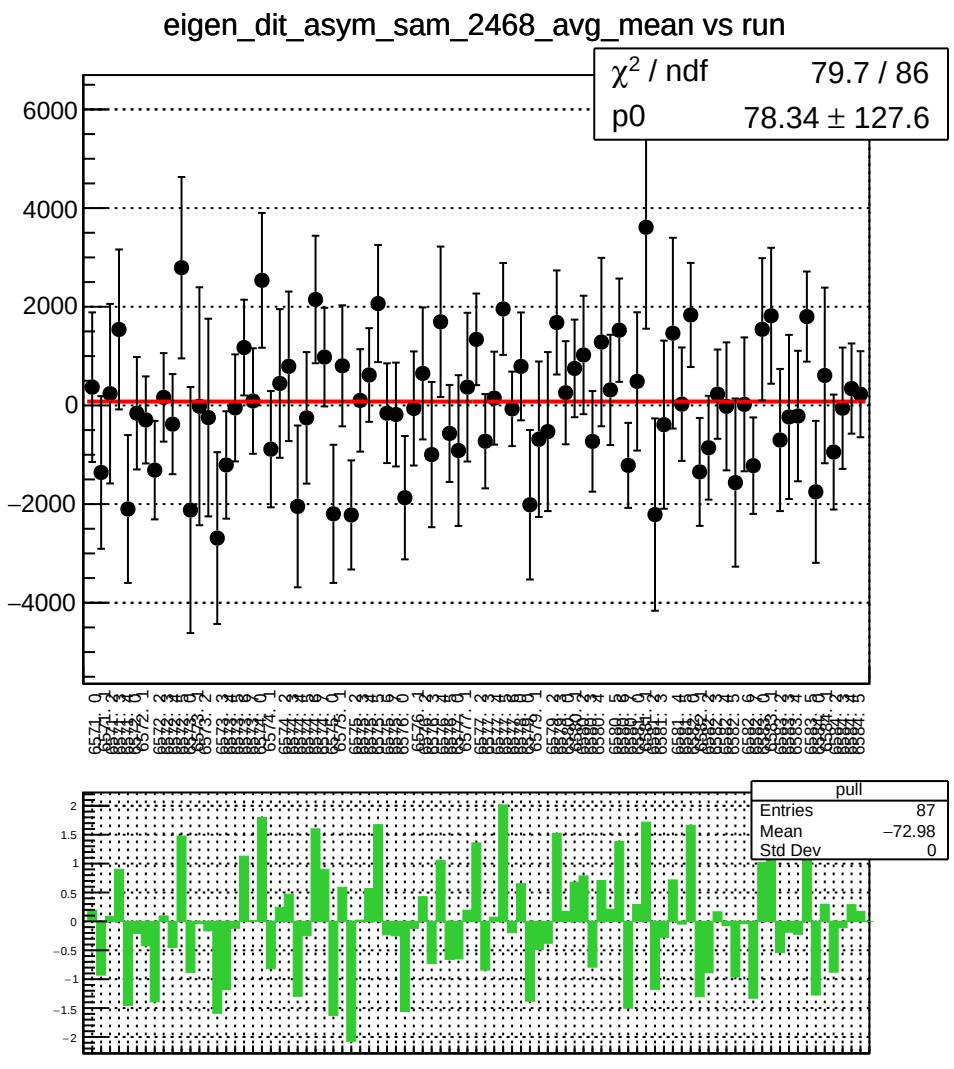

pull1D
Entries 87
Mean −0.01733
Std Dev 0.957

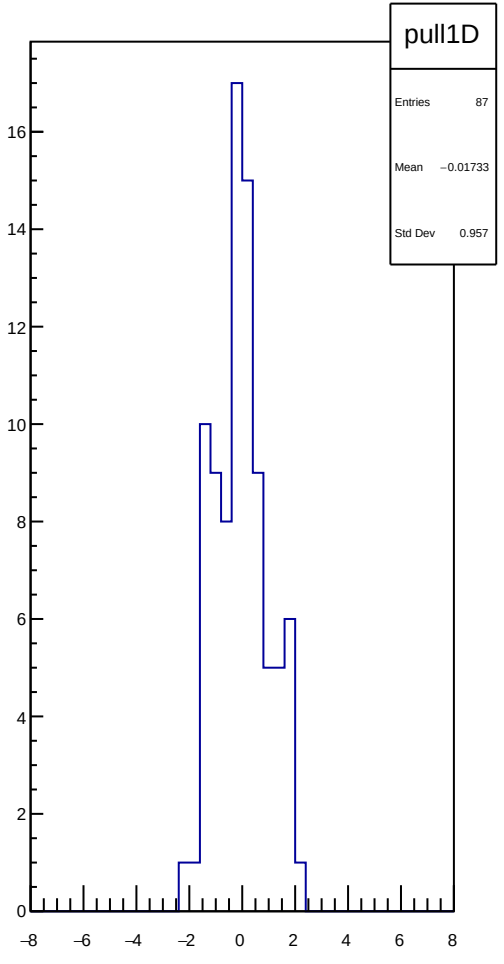

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 8.317e+04 / 86
p0 114.2 ± 0.0902
240
220
200
180
160
140
120
100
80

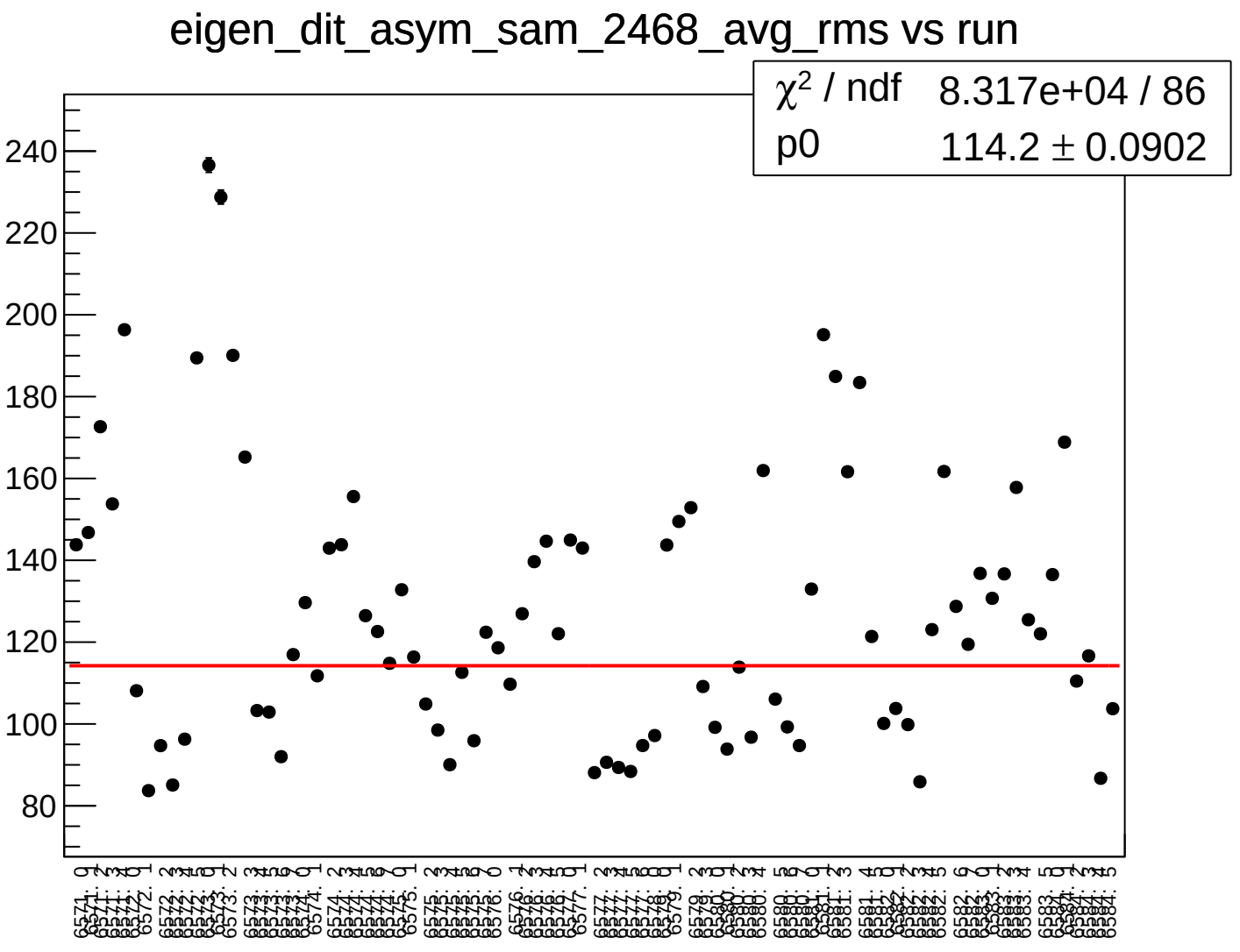

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 114.2 / 86
p0 −1201 ± 735.6
pull
Entries 87
Mean 266.2
Std Dev 0

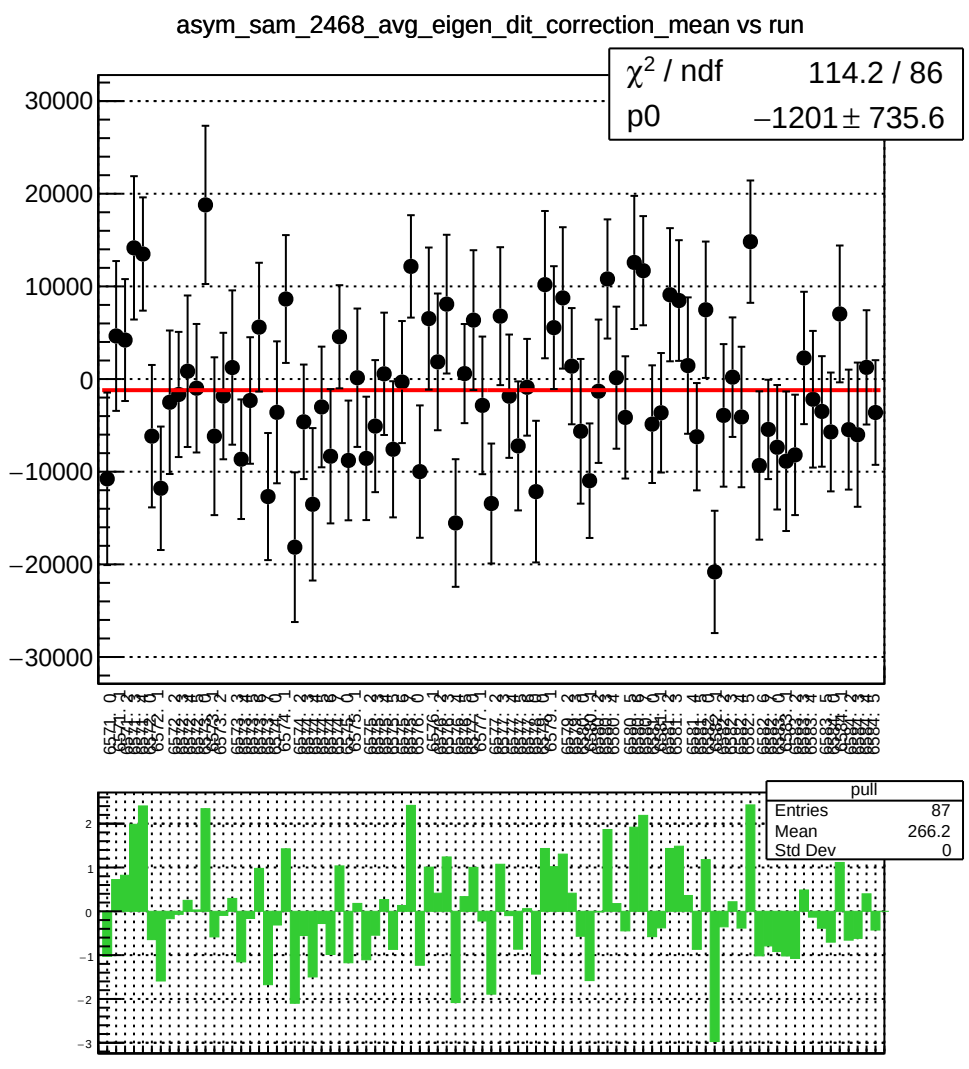

pull1D
Entries 87
Mean −0.005013
Std Dev 1.145

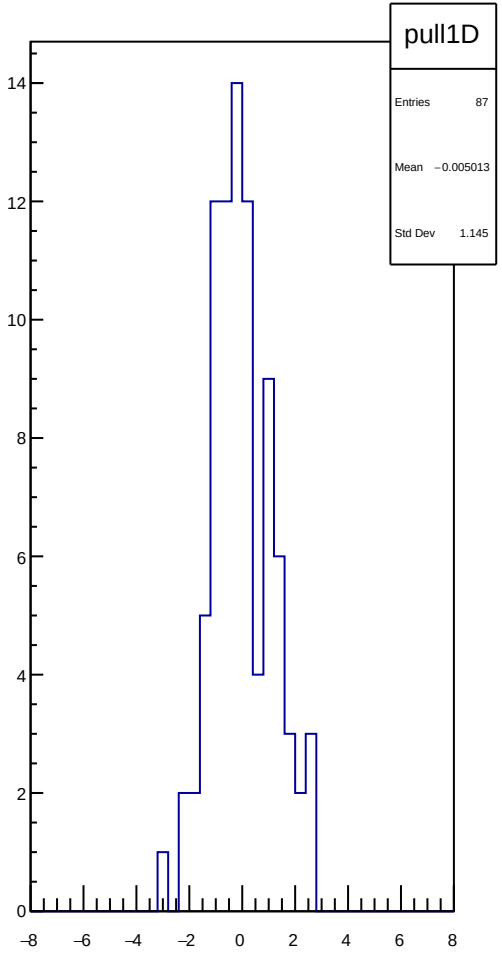

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.287e+04 / 86
p0 672.9 ± 0.5201
900
850
800
750
700
650
600
550

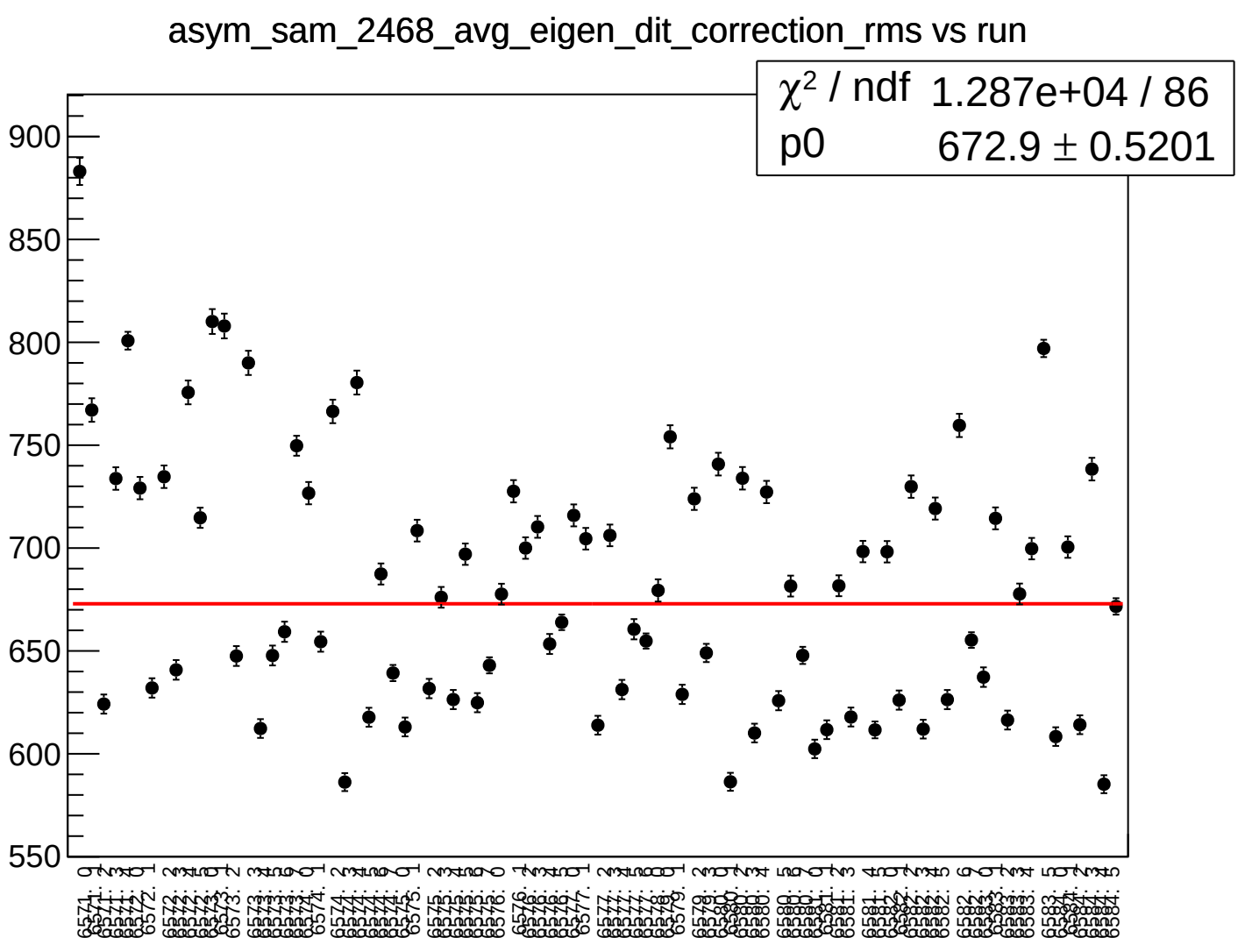

eigen_dit_asym_sam_2468_avg_mean vs run
χ^2 / ndf 79.7 / 86
p0 78.34 ± 127.6
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −72.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

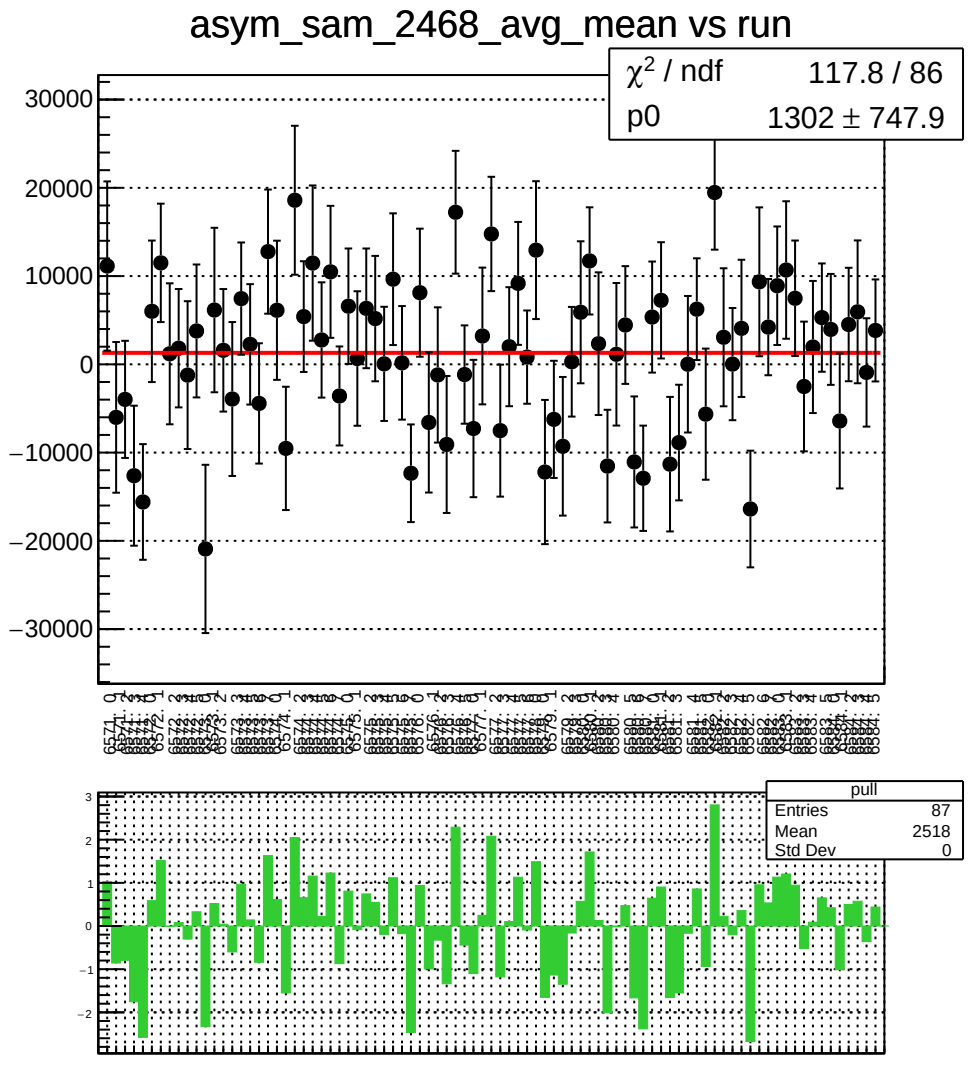

pull1D
Entries 87
Mean −0.01733
Std Dev 0.957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

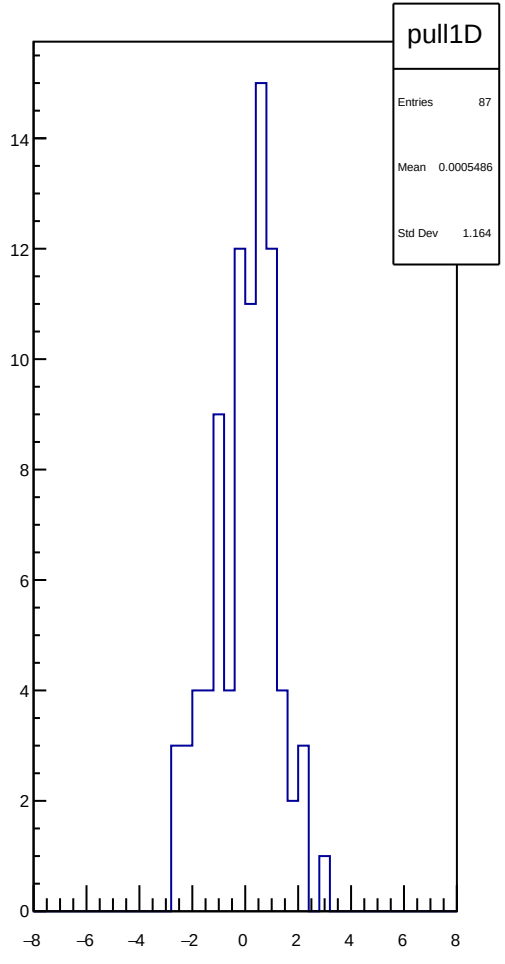

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 8.317e+04 / 86
p0 114.2 ± 0.0902
240
220
200
180
160
140
120
100
80

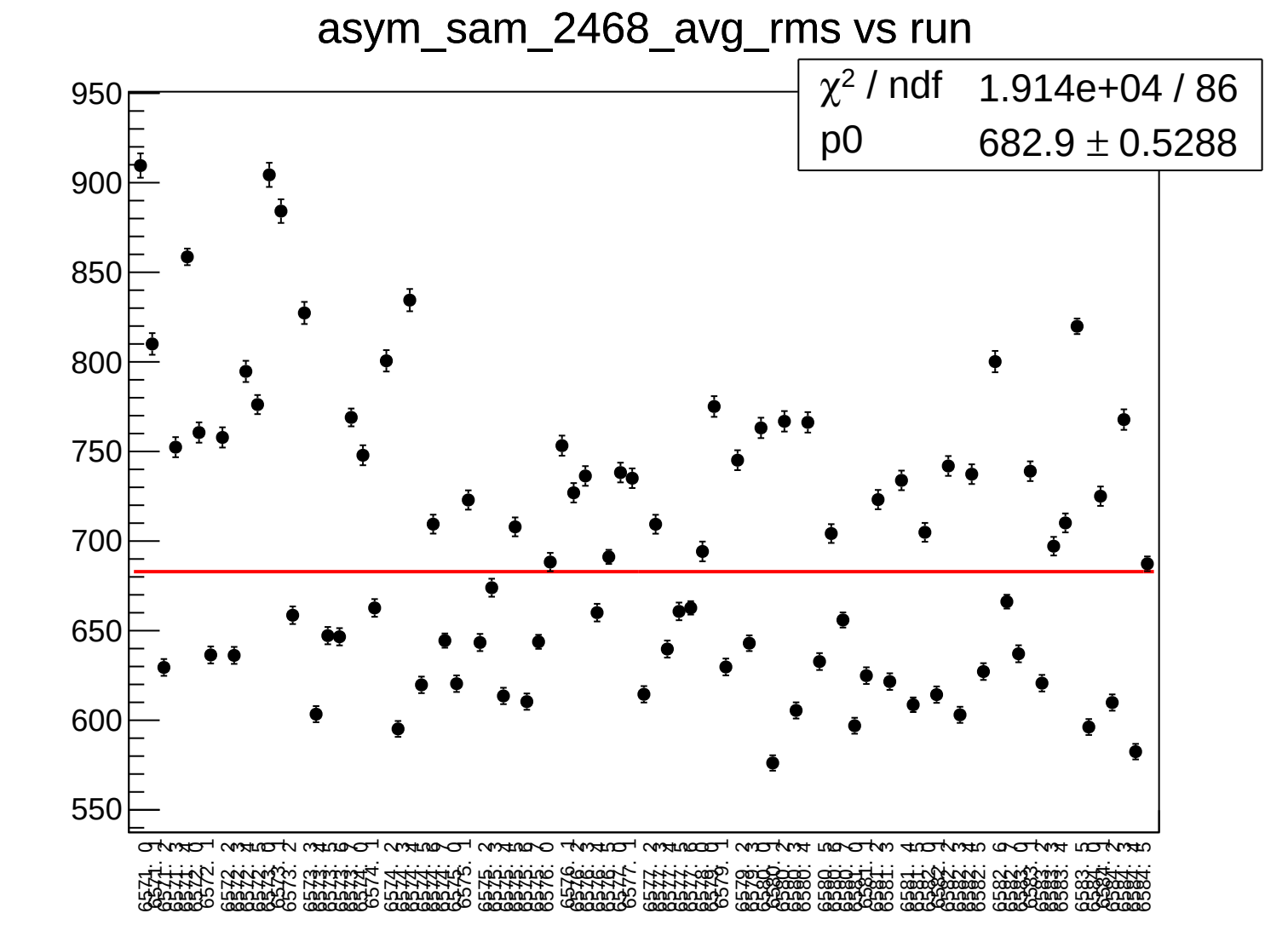

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 114.2 / 86
p0 −1201 ± 735.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 266.2
Std Dev 0
2
1
0
−1
−2
−3

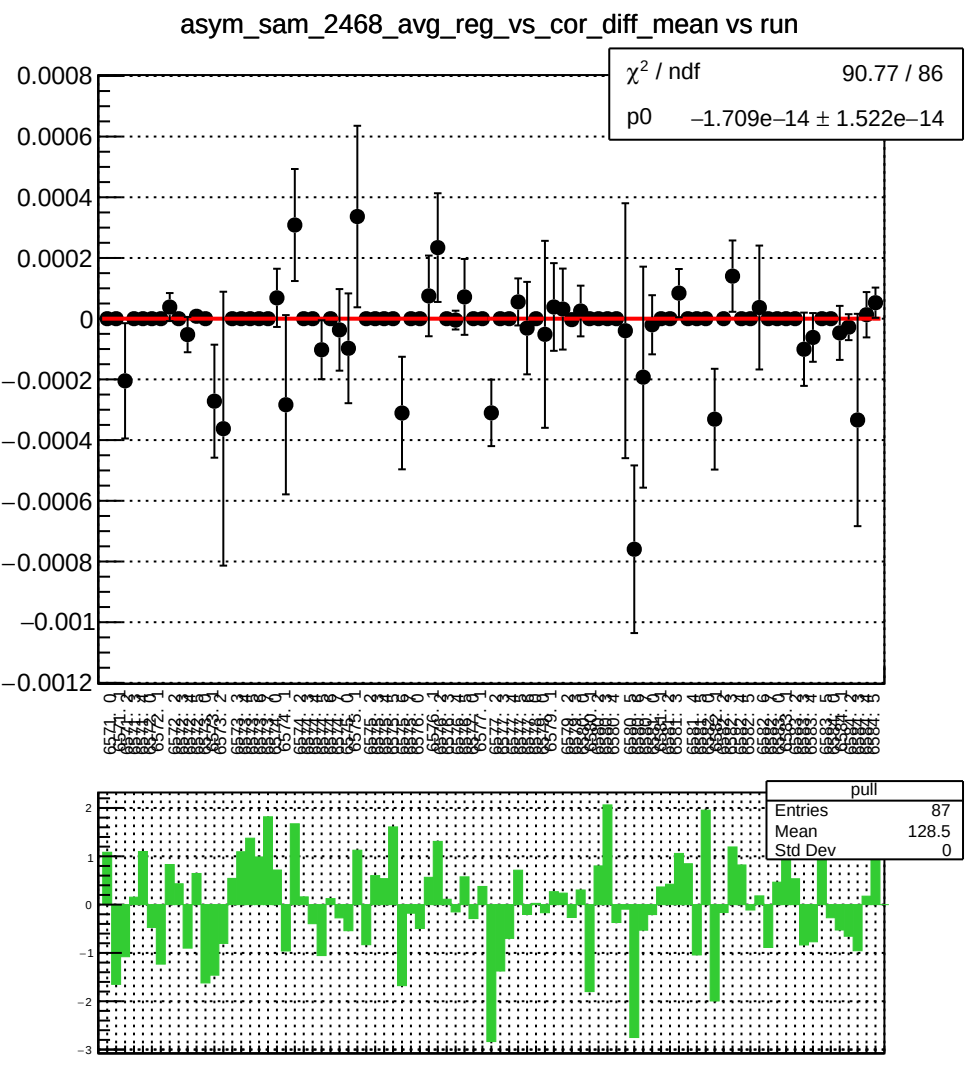

pull1D
Entries 87
Mean −0.005013
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

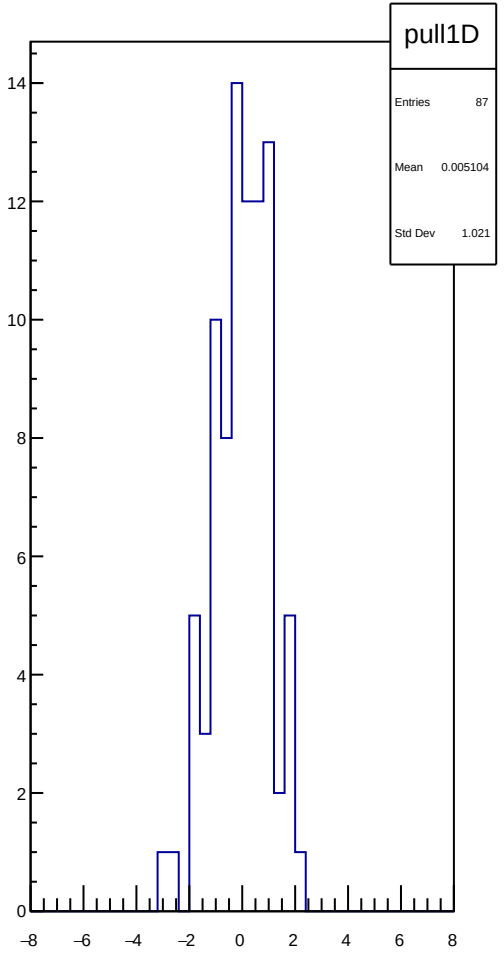

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.287e+04 / 86
p0 672.9 ± 0.5201
900
850
800
750
700
650
600
550

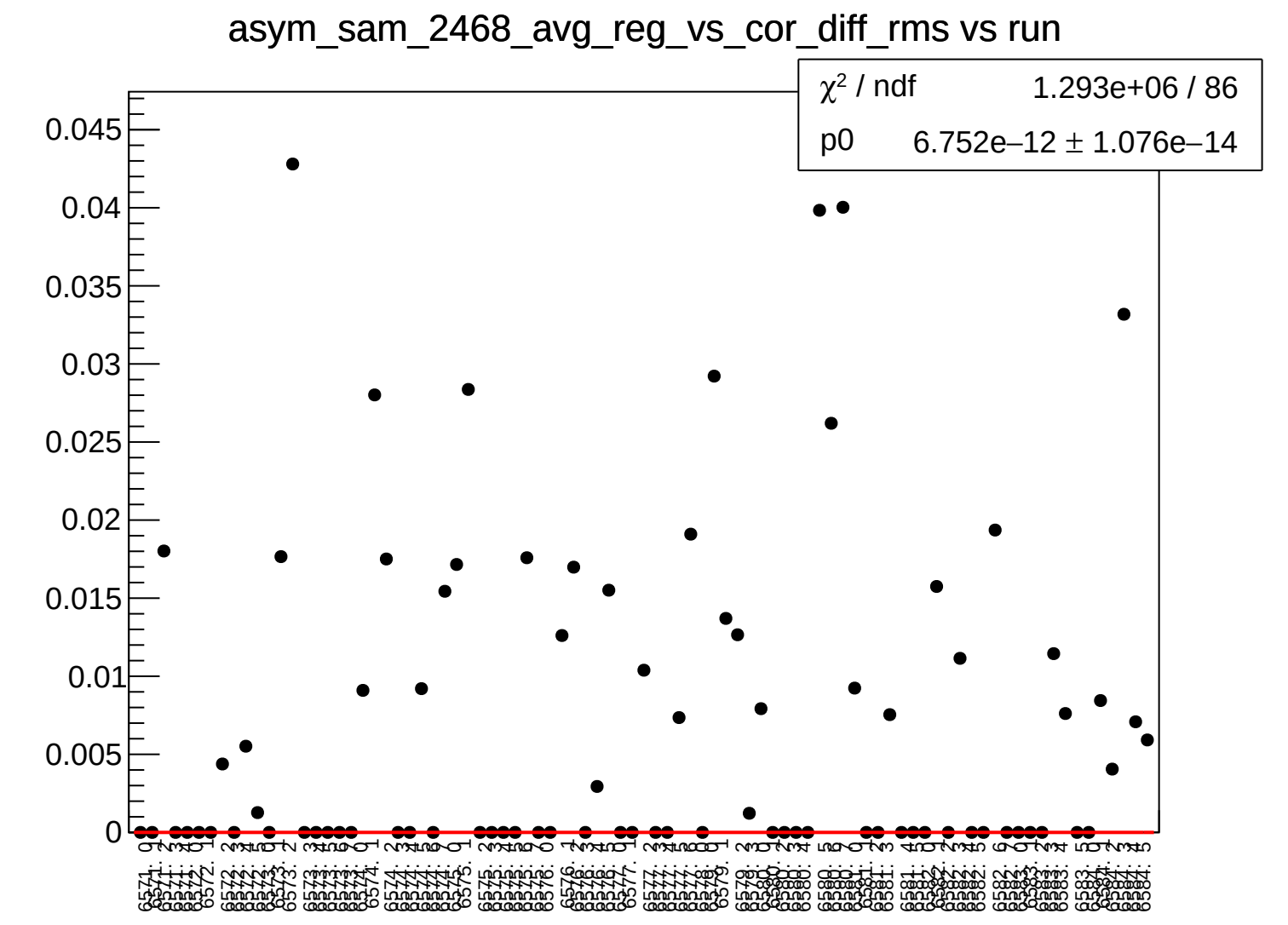

asym_sam_2468_avg_mean vs run
χ² / ndf 117.8 / 86
p0 1302 ± 747.9
pull
Entries 87
Mean 2518
Std Dev 0

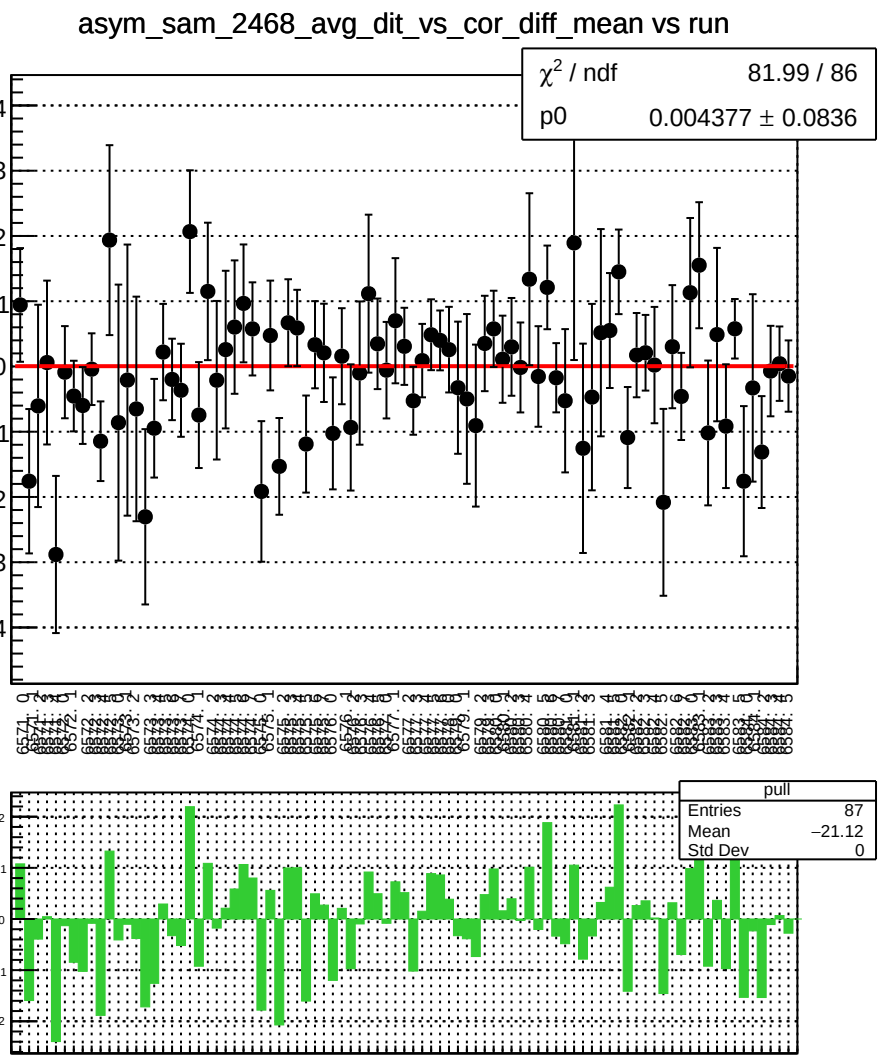

pull1D
Entries 87
Mean 0.0005486
Std Dev 1.164

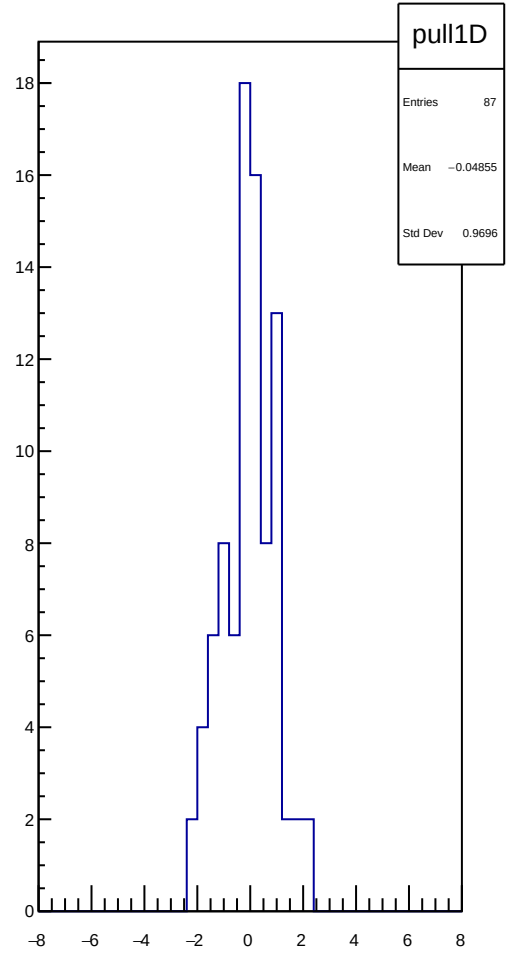

asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.914e+04 / 86
p0 682.9 ± 0.5288
950
900
850
800
750
700
650
600
550

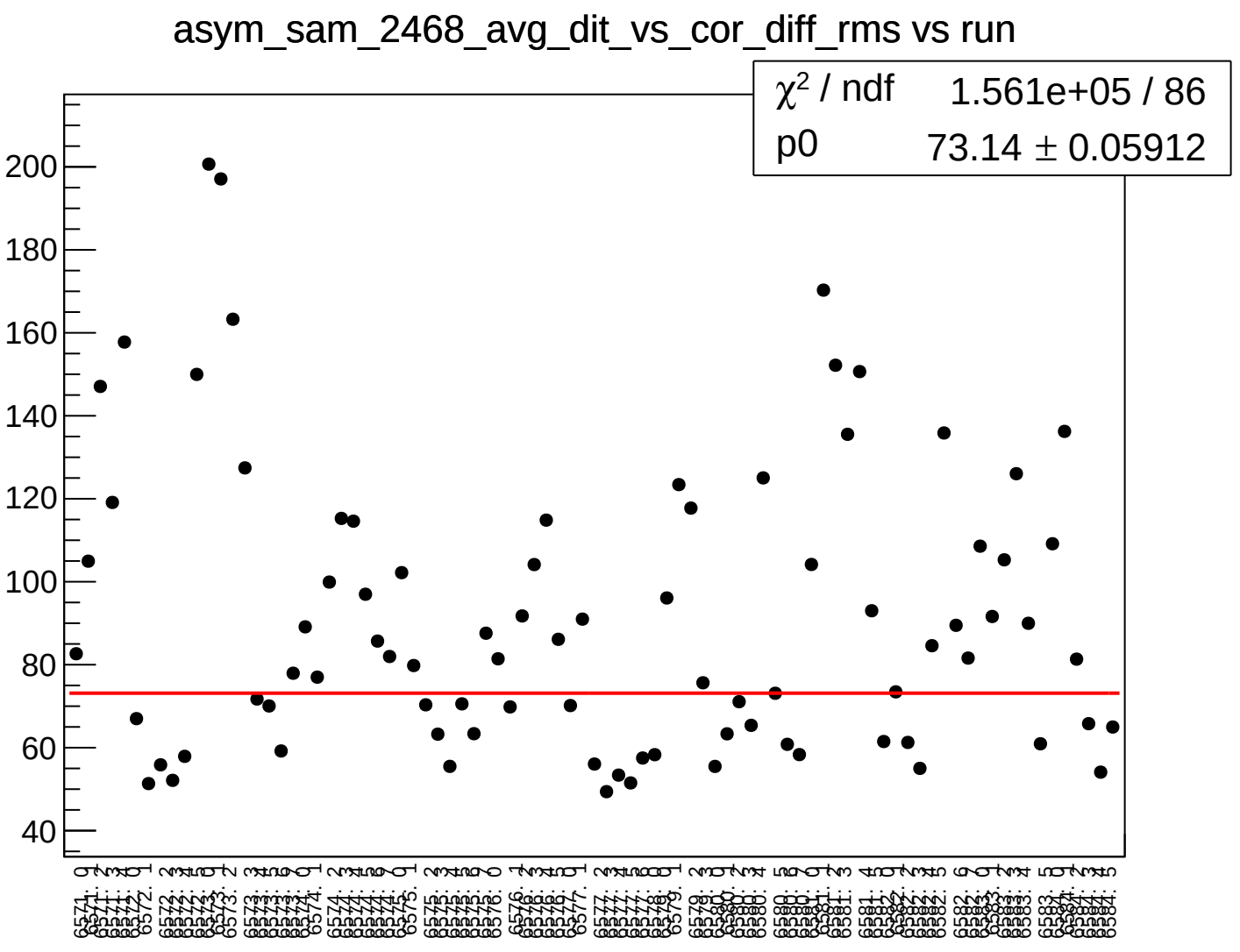

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.77 / 86
p0 −1.709e−14 ± 1.522e−14
pull
Entries 87
Mean 128.5
Std Dev 0

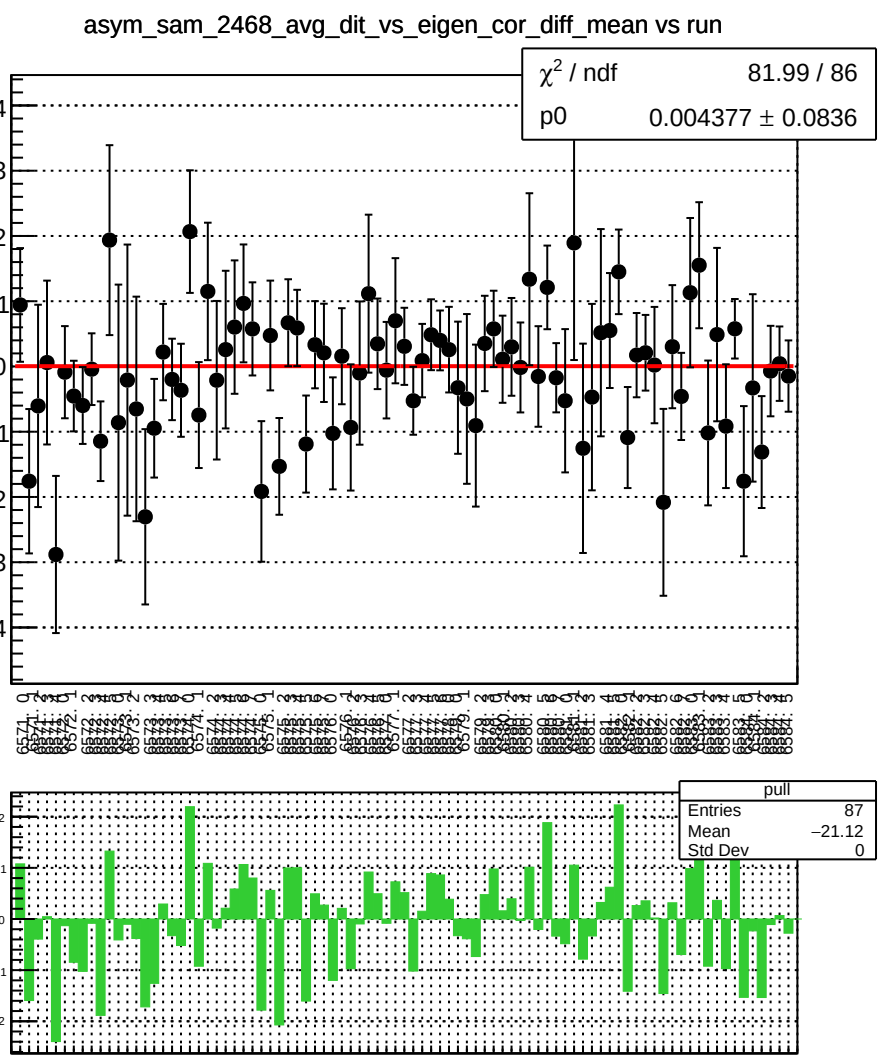

pull1D
Entries 87
Mean 0.005104
Std Dev 1.021

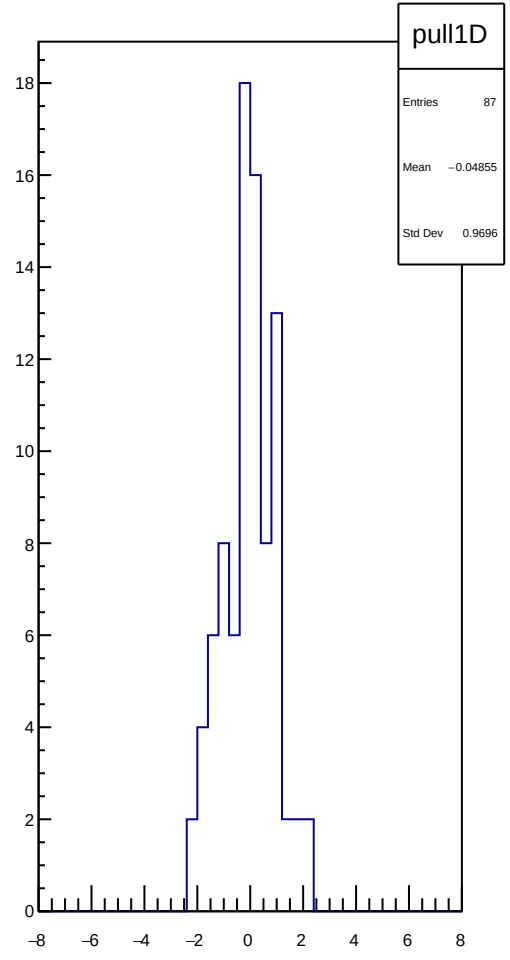

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.293e+06 / 86
p0 6.752e−12 ± 1.076e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

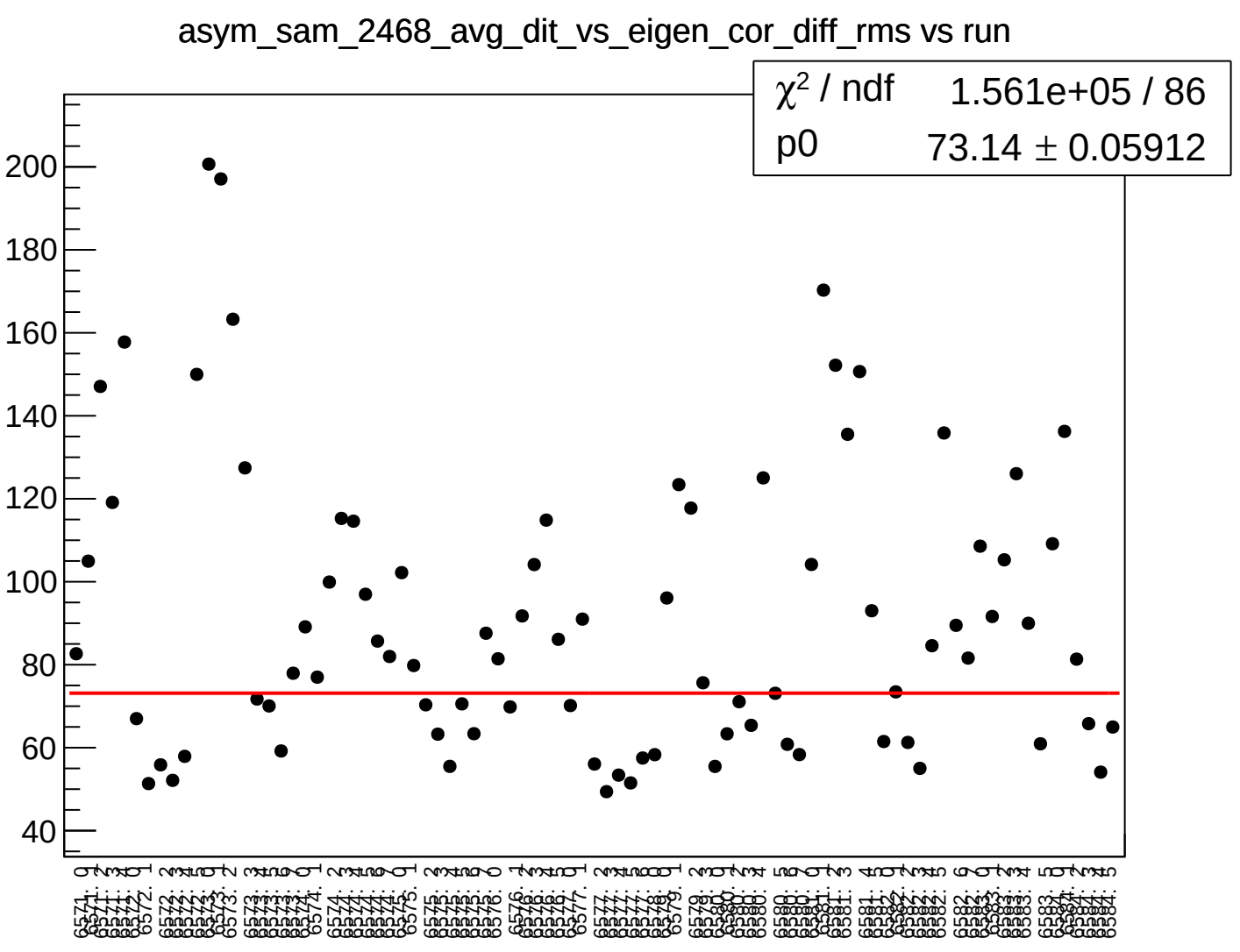

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.99 / 86
p0 0.004377 ± 0.0836
pull
Entries 87
Mean −21.12
Std Dev 0

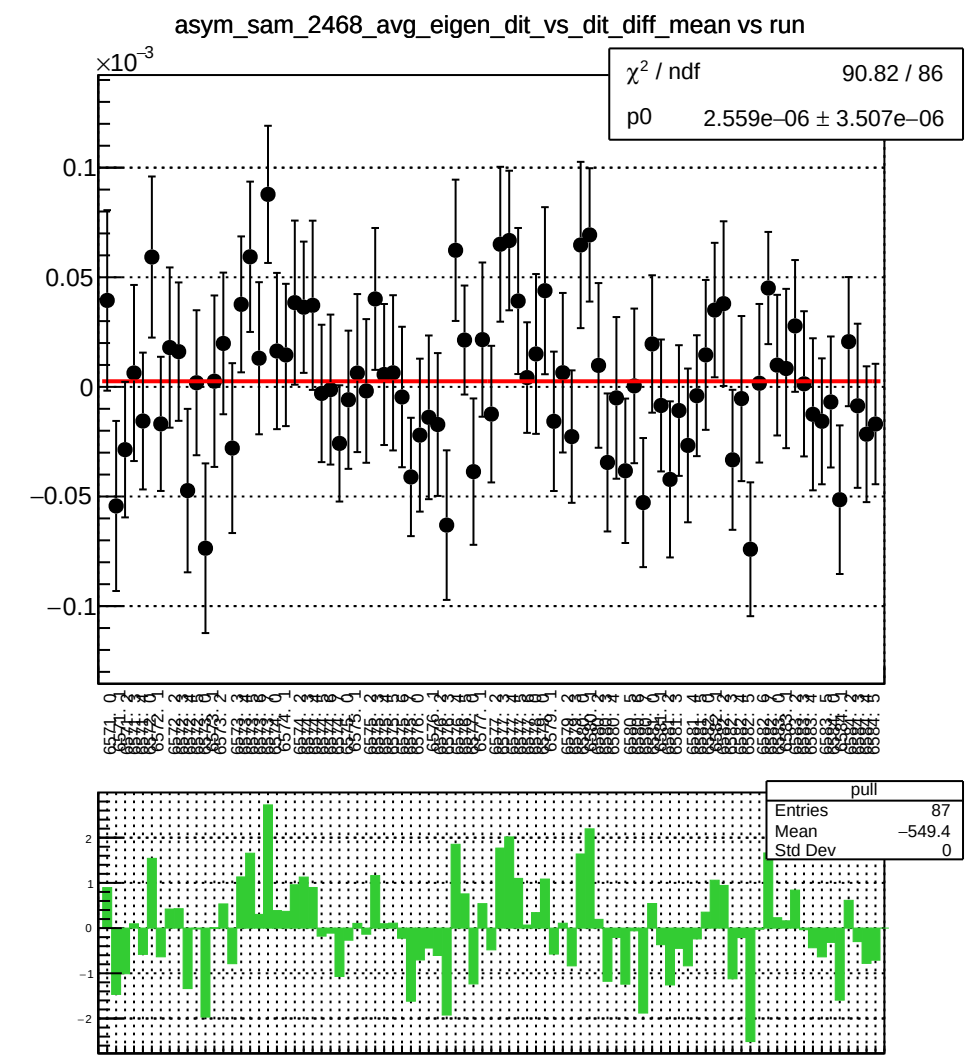

pull1D
Entries 87
Mean −0.04855
Std Dev 0.9696

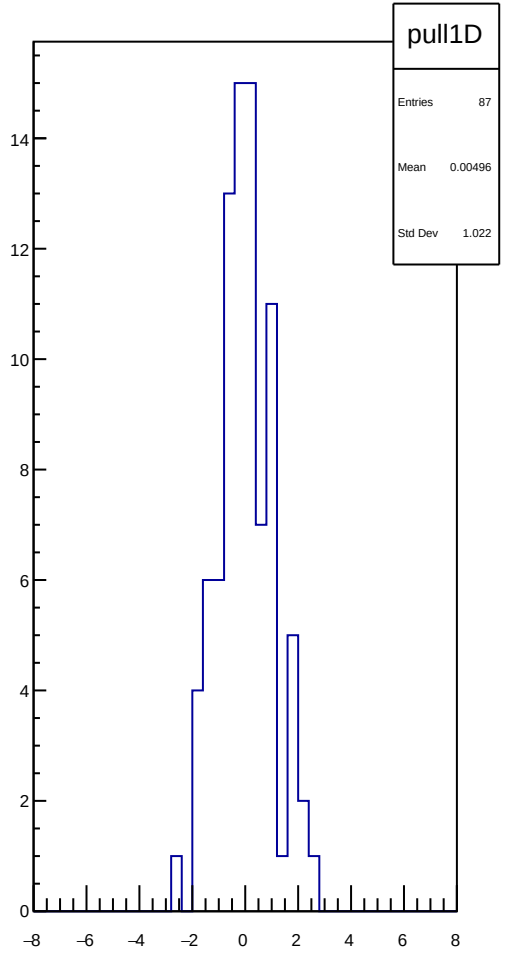

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.561e+05 / 86
p0 73.14 ± 0.05912
200
180
160
140
120
100
80
60
40

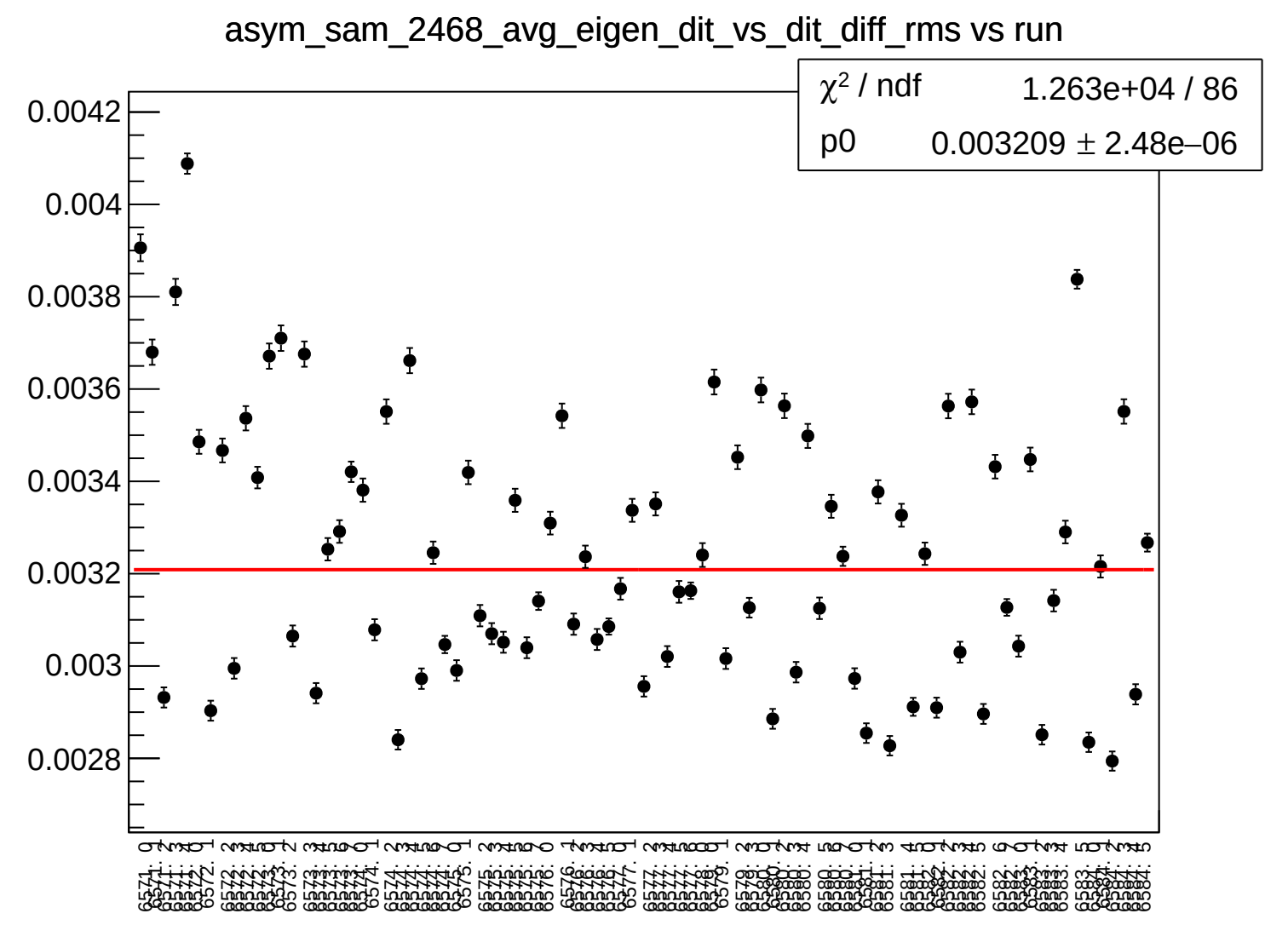

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.99 / 86
p0 0.004377 ± 0.0836
pull
Entries 87
Mean −21.12
Std Dev 0

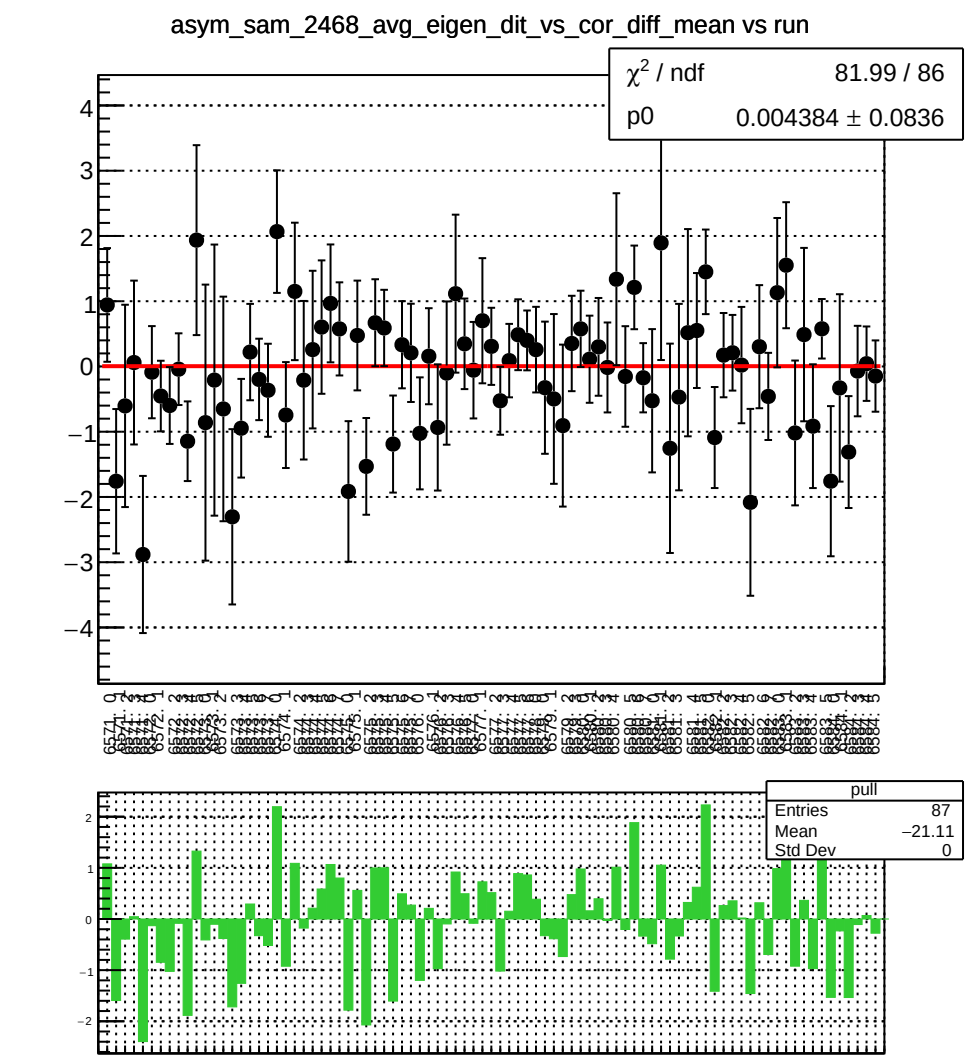

pull1D
Entries 87
Mean −0.04855
Std Dev 0.9696

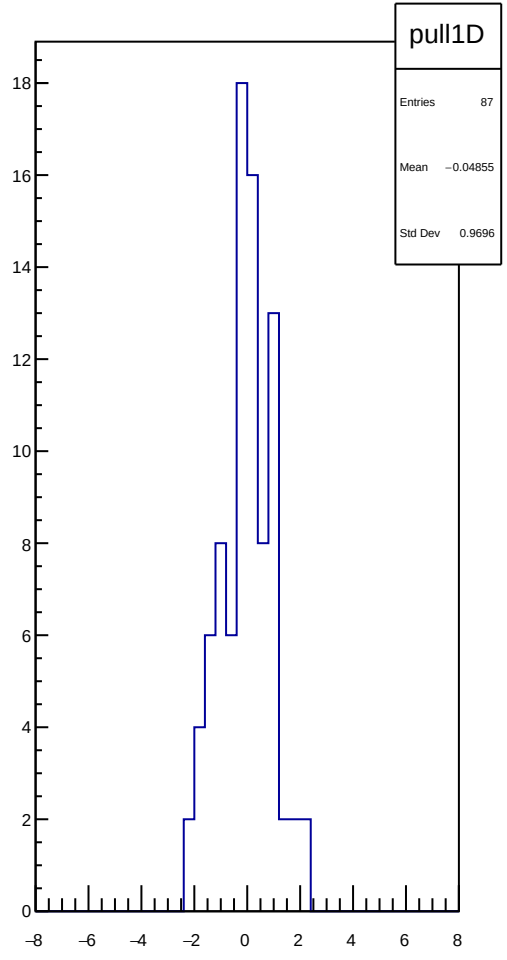

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.561e+05 / 86
p0 73.14 ± 0.05912
200
180
160
140
120
100
80
60
40

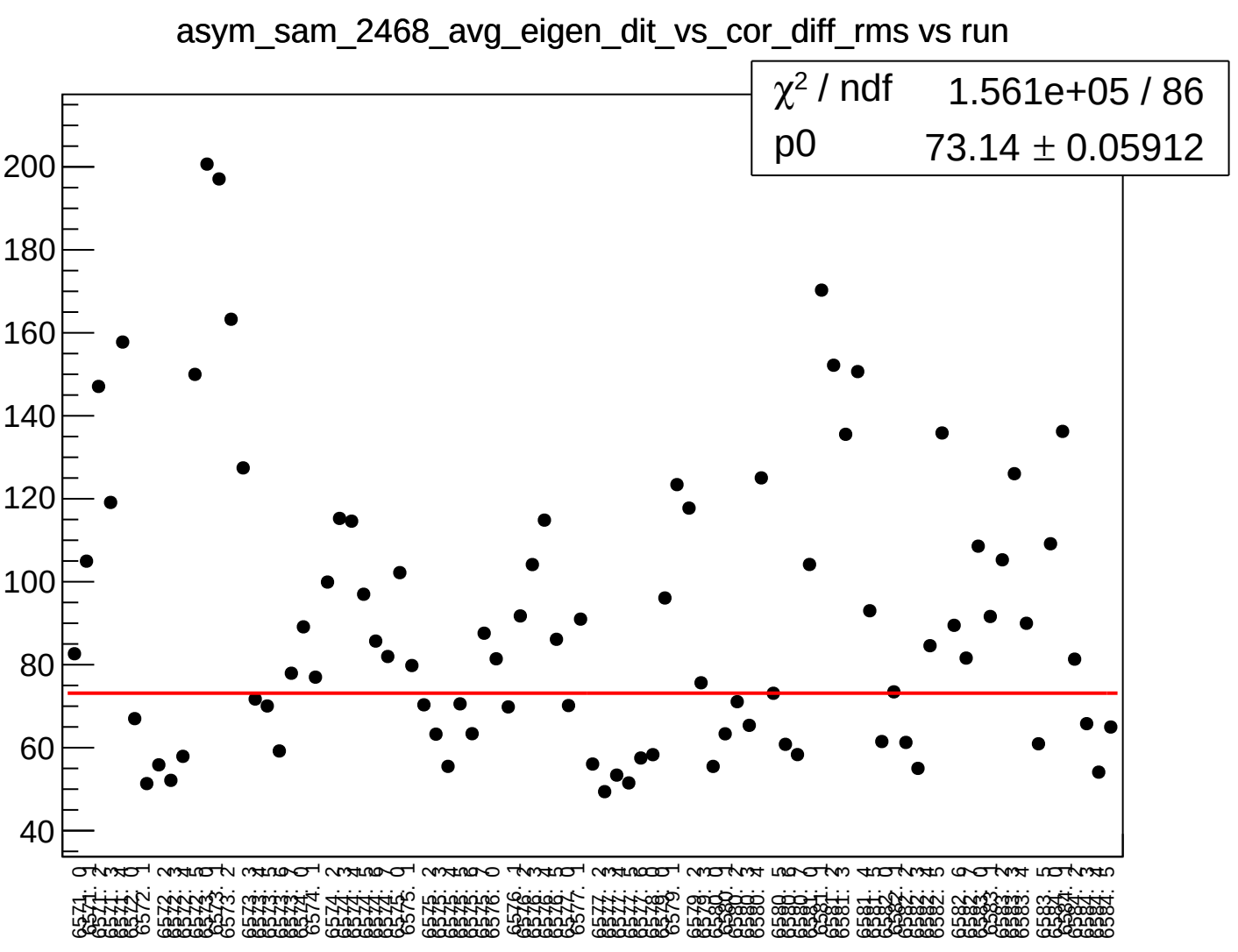

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.82 / 86
p0 2.559e−06 ± 3.507e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −549.4
Std Dev 0
2
1
0
−1
−2

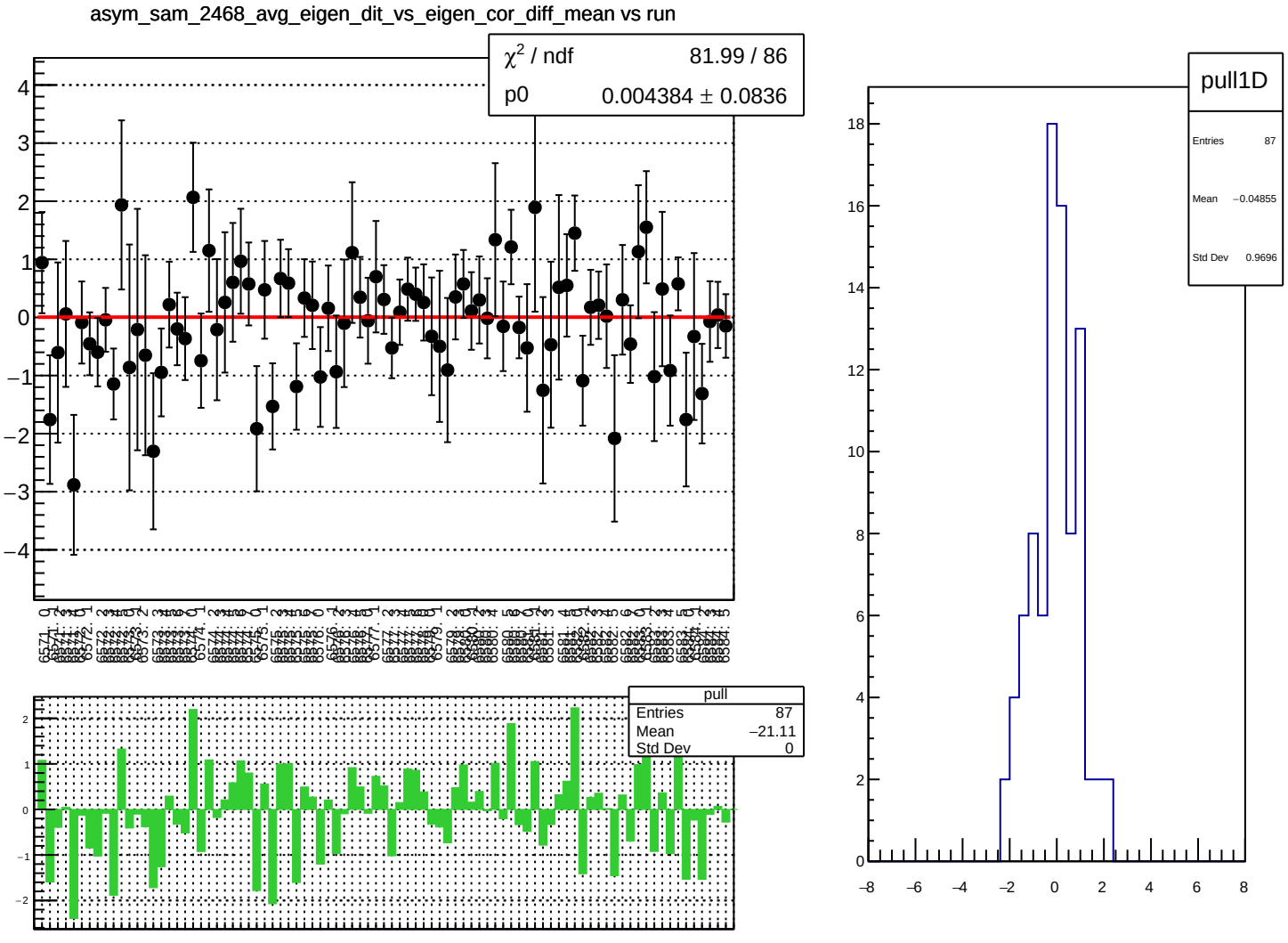

pull1D
Entries 87
Mean 0.00496
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

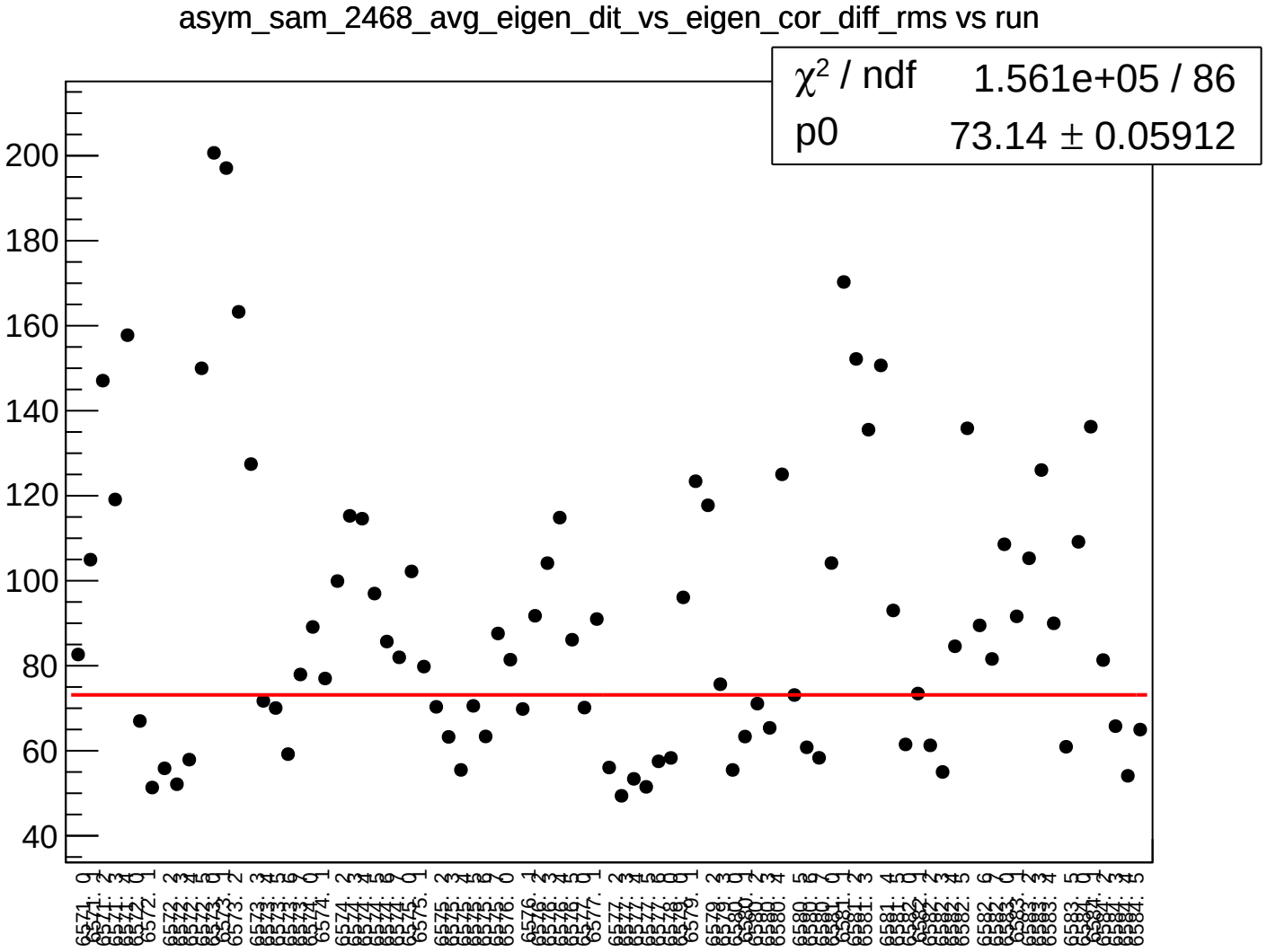

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.263e+04 / 86
p0 0.003209 ± 2.48e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

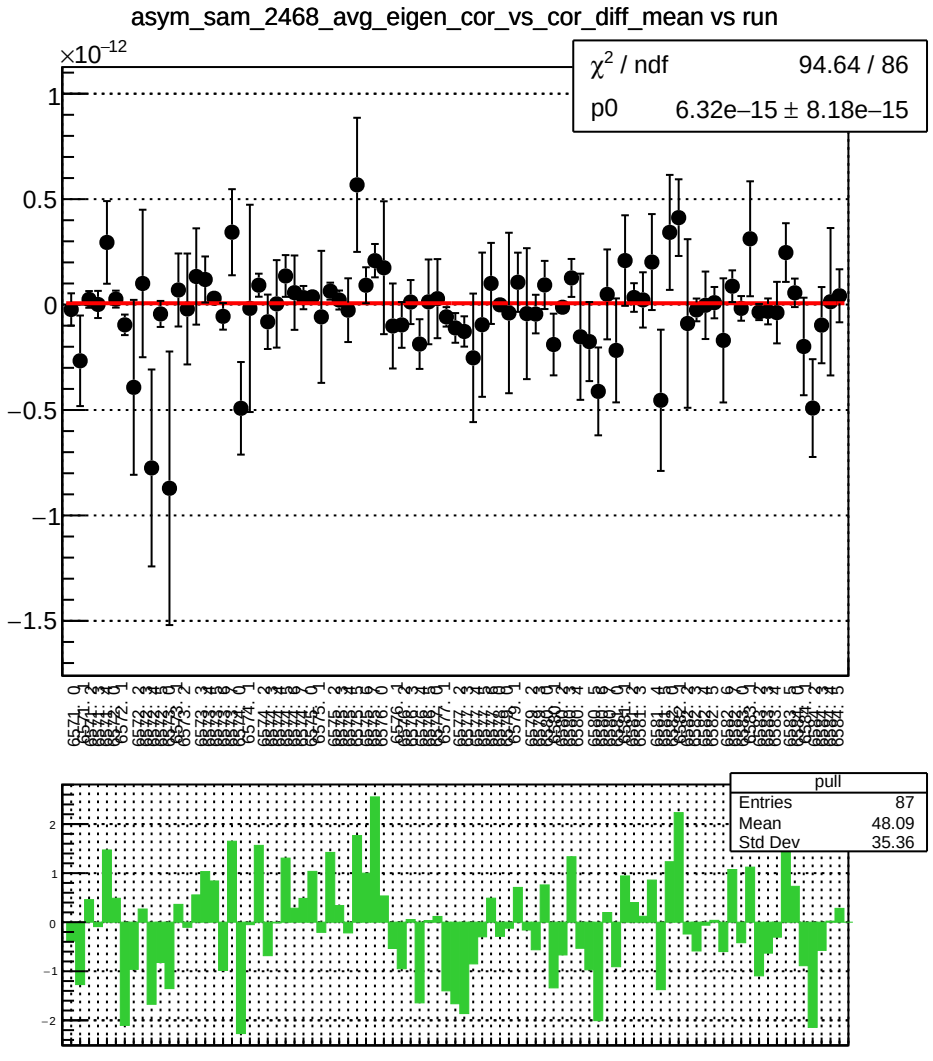

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.99 / 86
p0 0.004384 ± 0.0836
pull
Entries 87
Mean −21.11
Std Dev 0

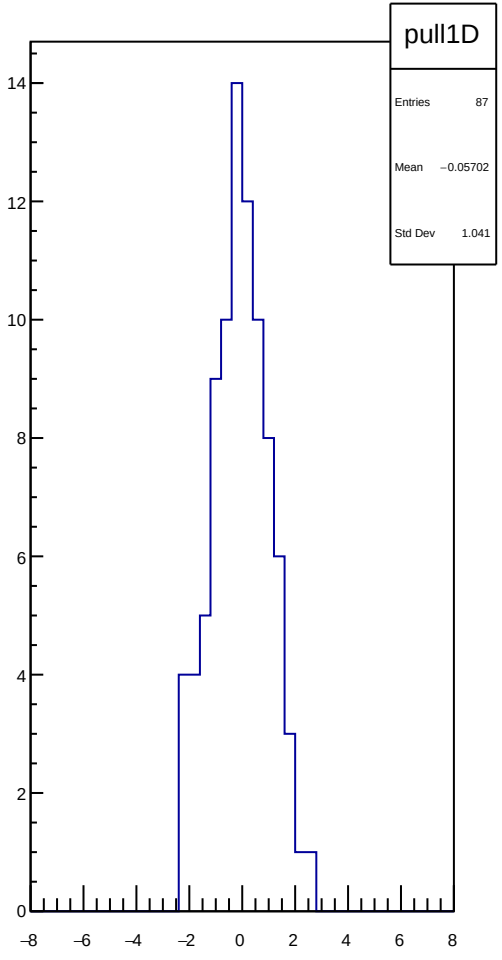

pull1D
Entries 87
Mean −0.04855
Std Dev 0.9696

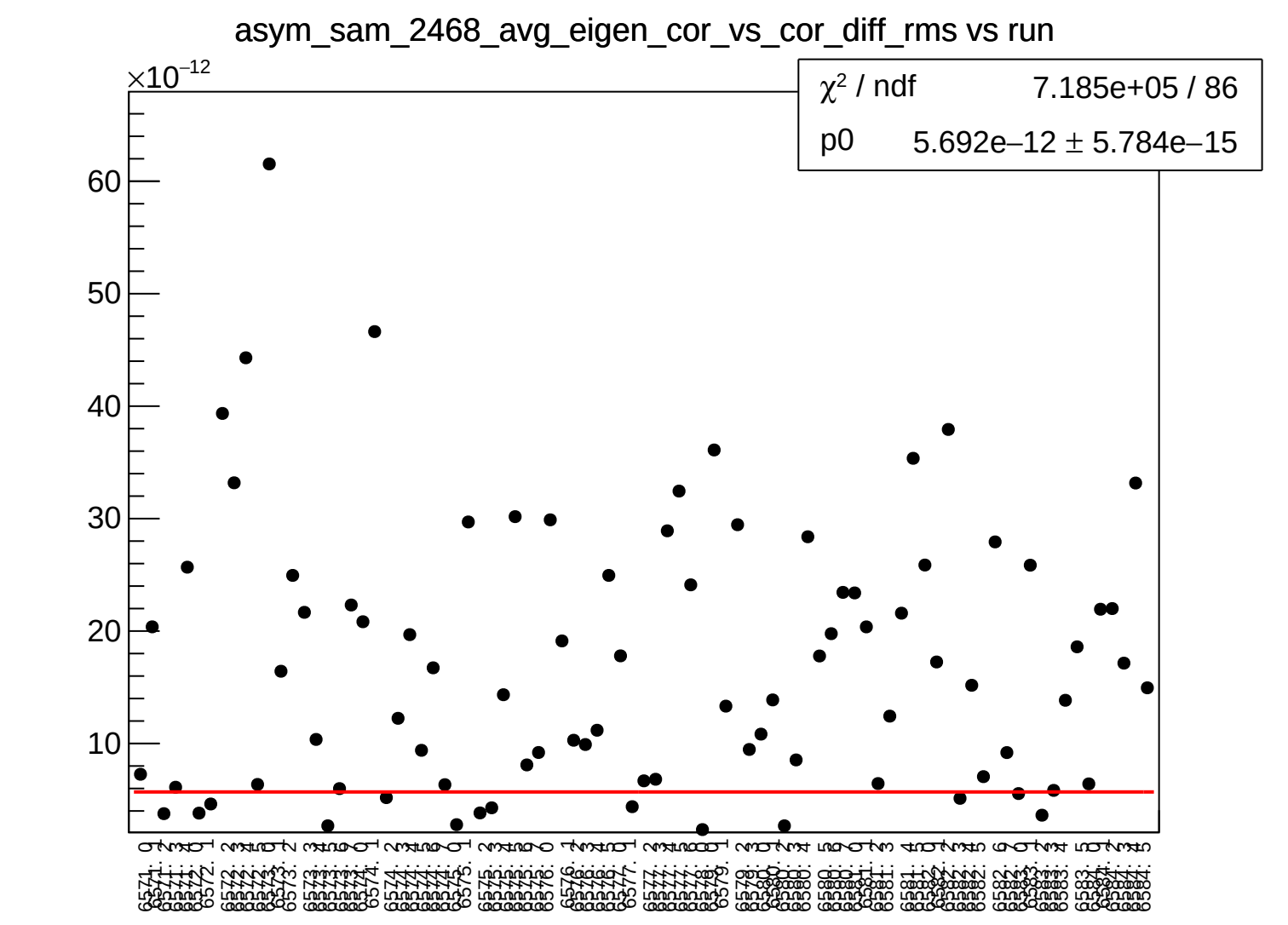

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.561e+05 / 86
p0 73.14 ± 0.05912
200
180
160
140
120
100
80
60
40

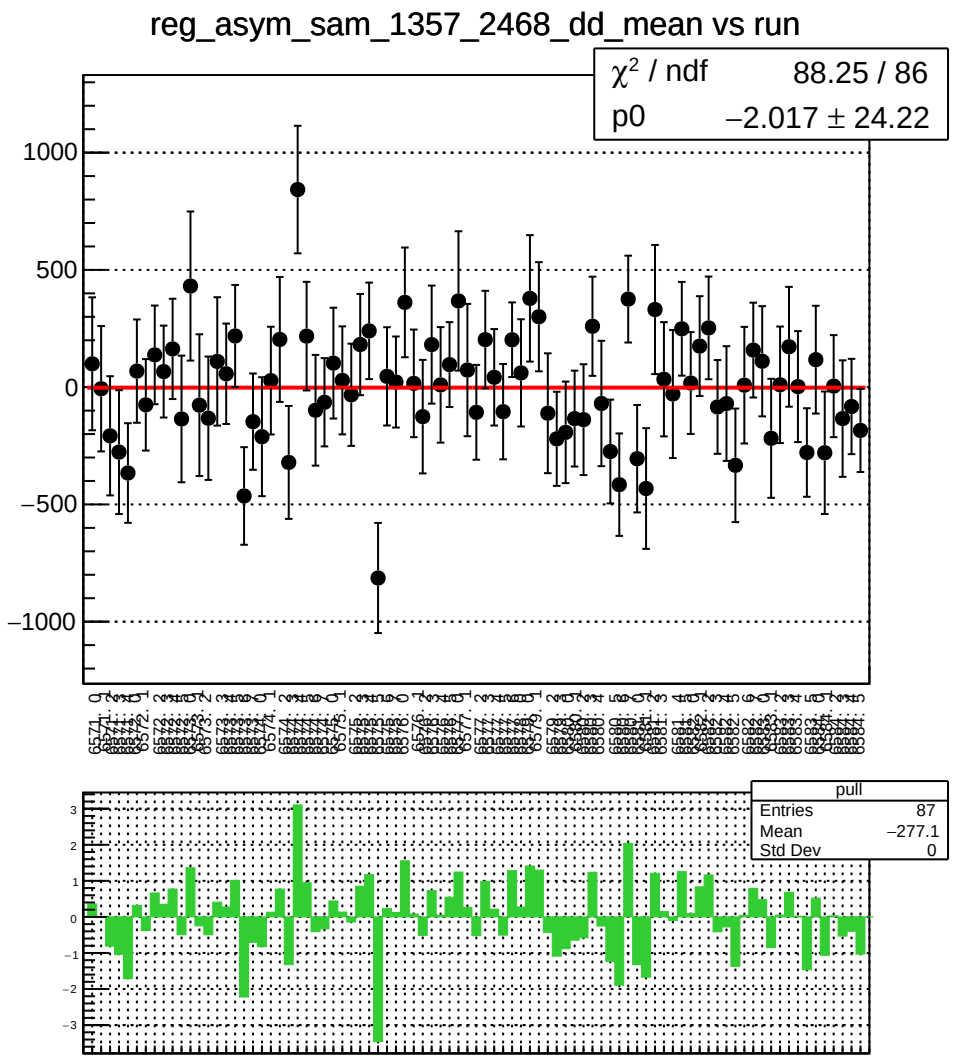

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.99 / 86
p0 0.004384 ± 0.0836
pull
Entries 87
Mean −21.11
Std Dev 0
pull1D
Entries 87
Mean −0.04855
Std Dev 0.9696

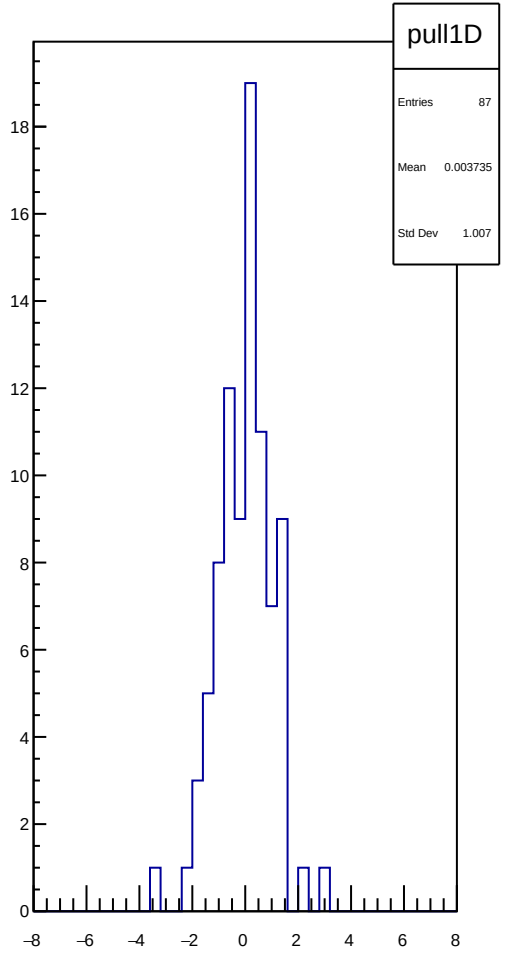

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.561e+05 / 86
p0 73.14 ± 0.05912
200
180
160
140
120
100
80
60
40

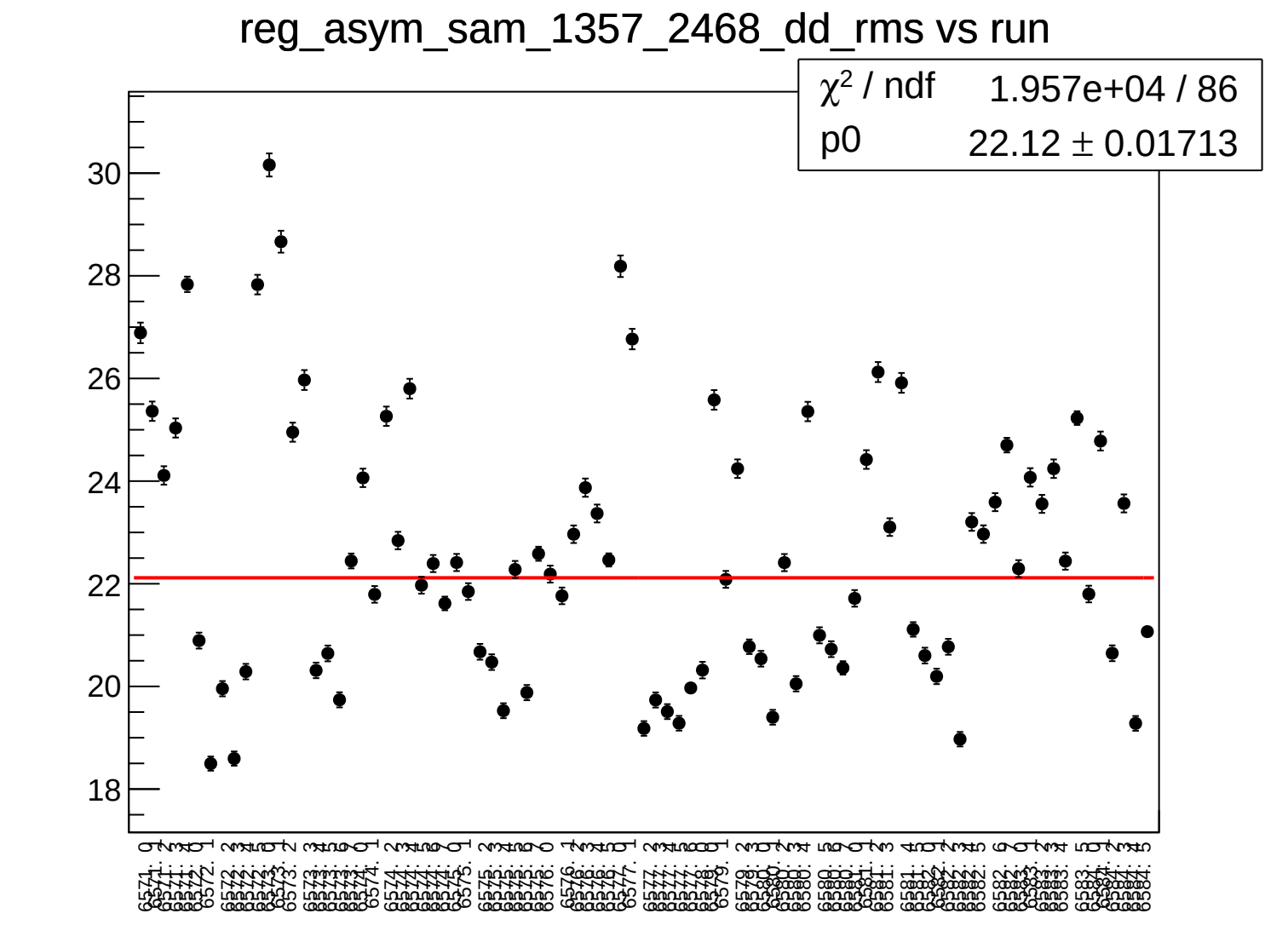

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.64 / 86
p0 6.32e−15 ± 8.18e−15
pull
Entries 87
Mean 48.09
Std Dev 35.36

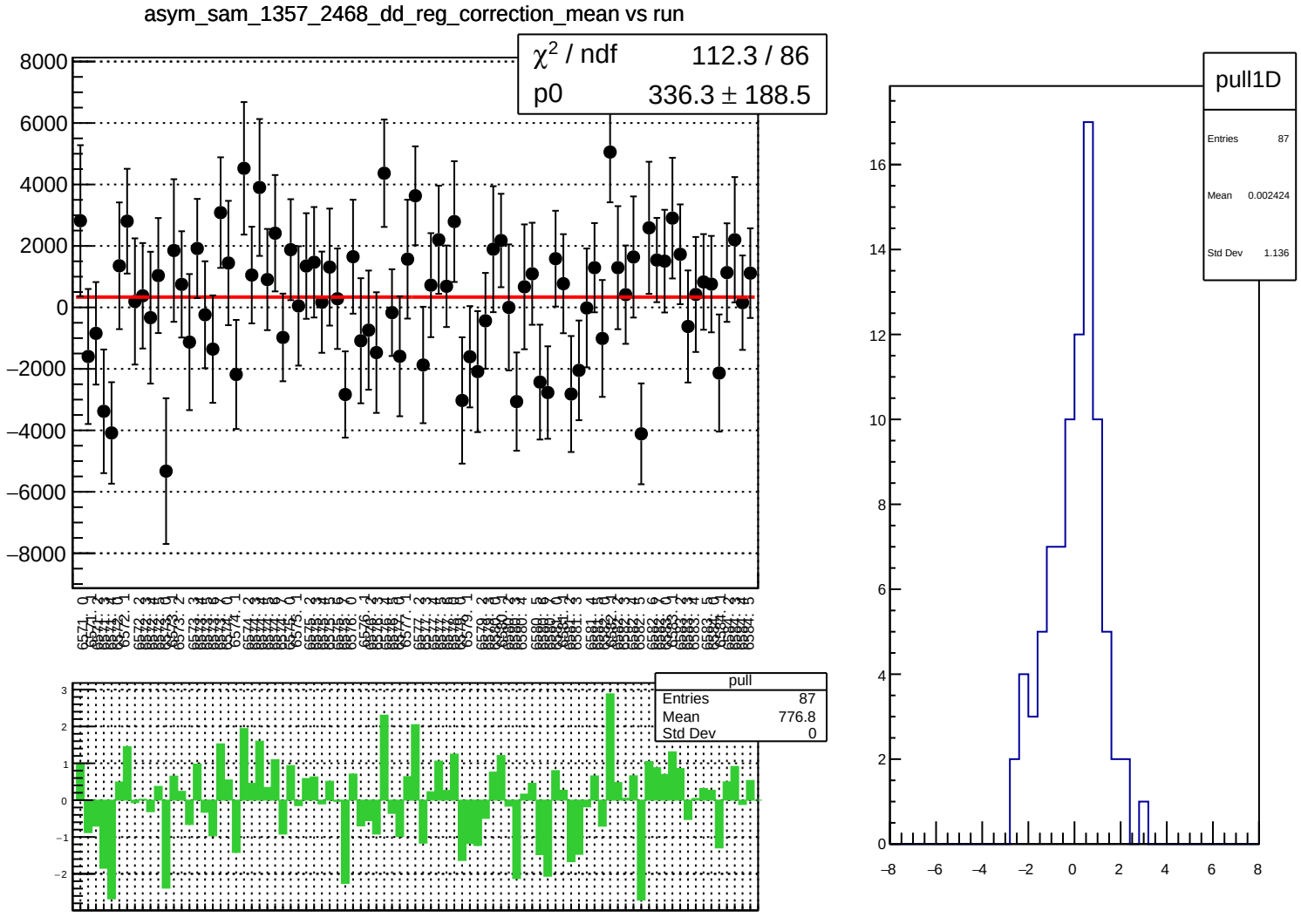

pull1D
Entries 87
Mean −0.05702
Std Dev 1.041

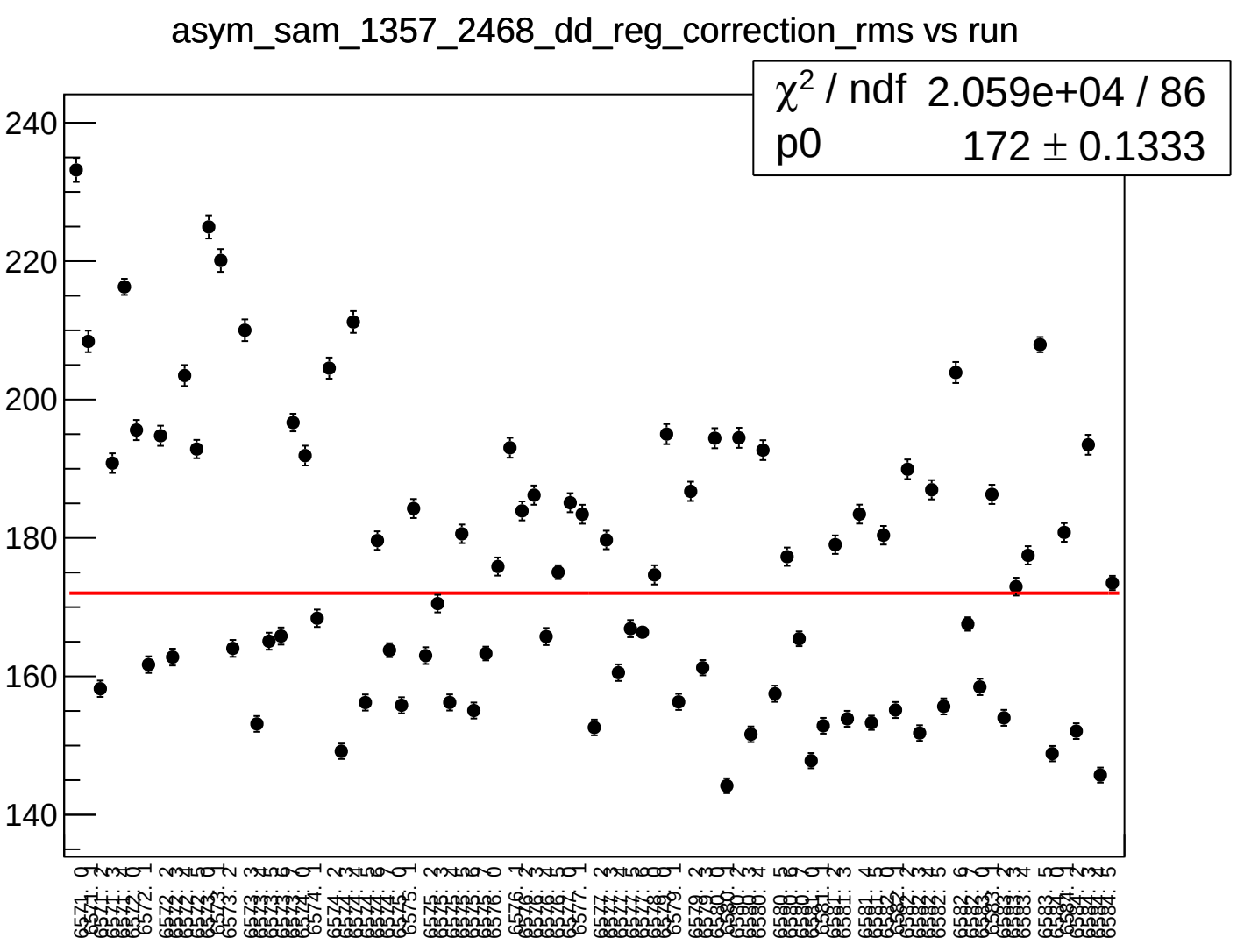

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.185e+05 / 86
p0 5.692e−12 ± 5.784e−15
60
50
40
30
20
10

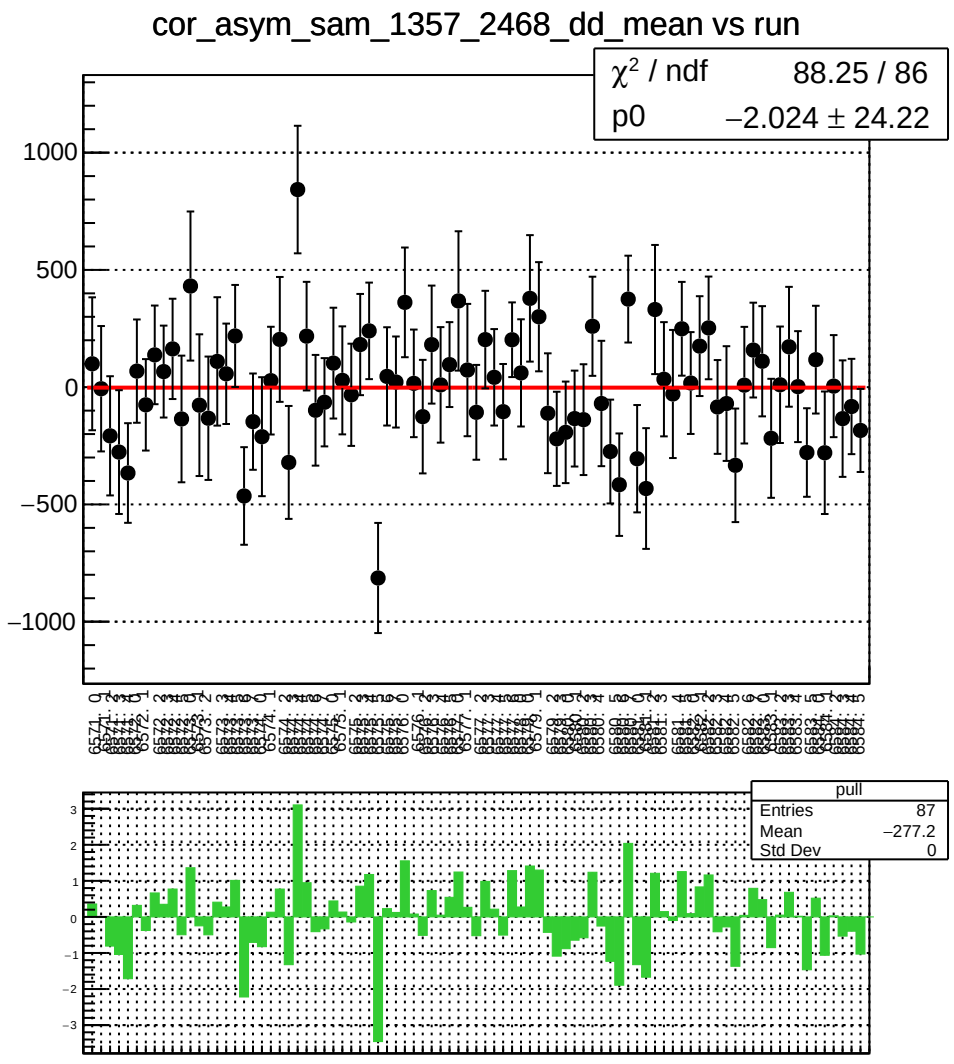

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 88.25 / 86
p0 −2.017 ± 24.22
1000
500
0
−500
−1000
pull
Entries 87
Mean −277.1
Std Dev 0
3
2
1
0
−1
−2
−3

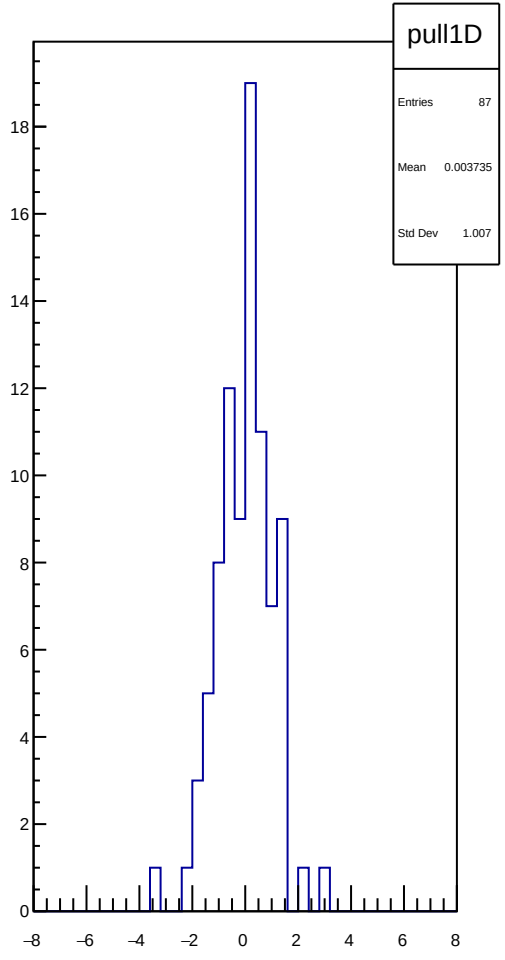

pull1D
Entries 87
Mean 0.003735
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

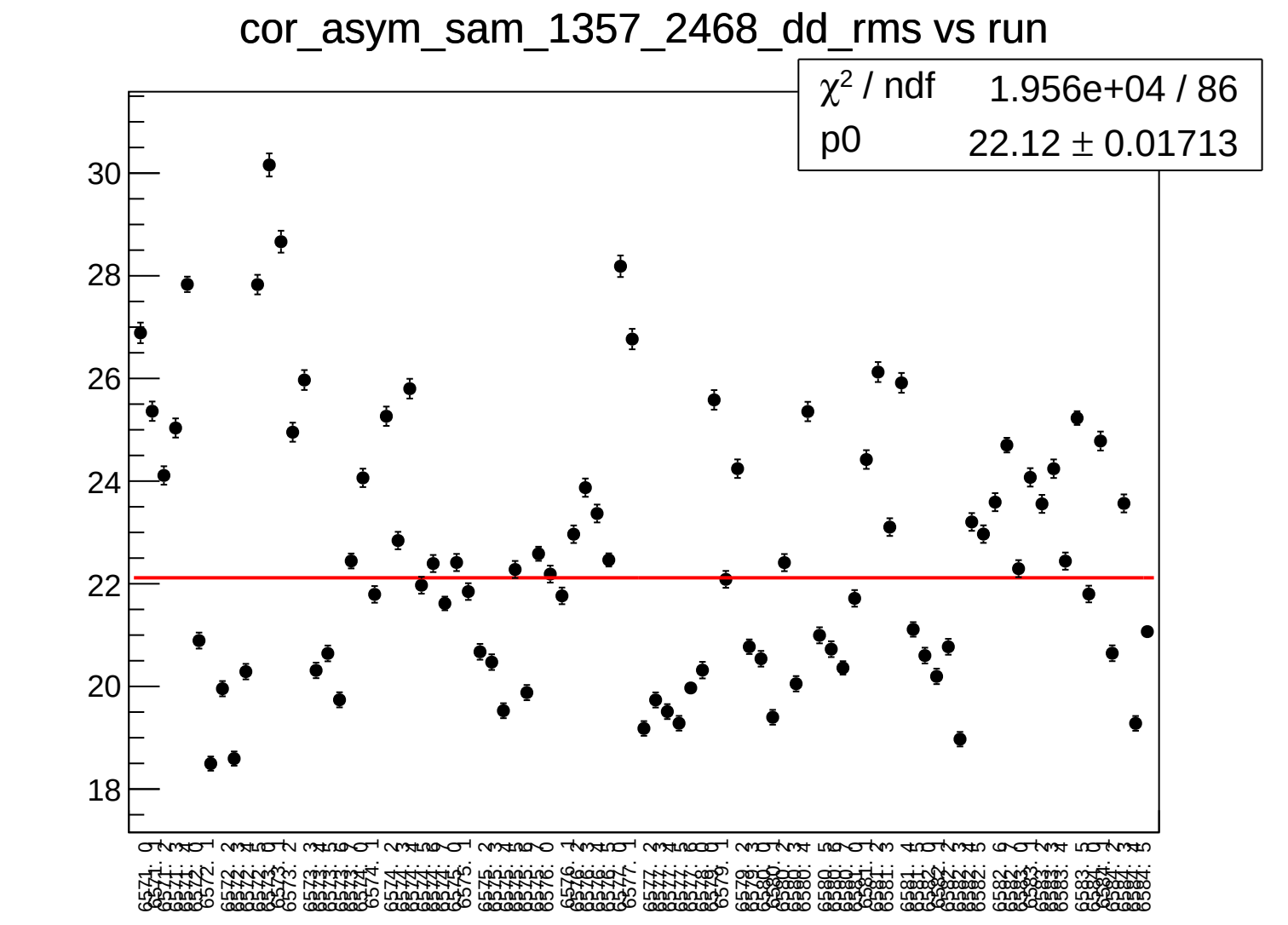

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.957e+04 / 86
p0 22.12 ± 0.01713
30
28
26
24
22
20
18

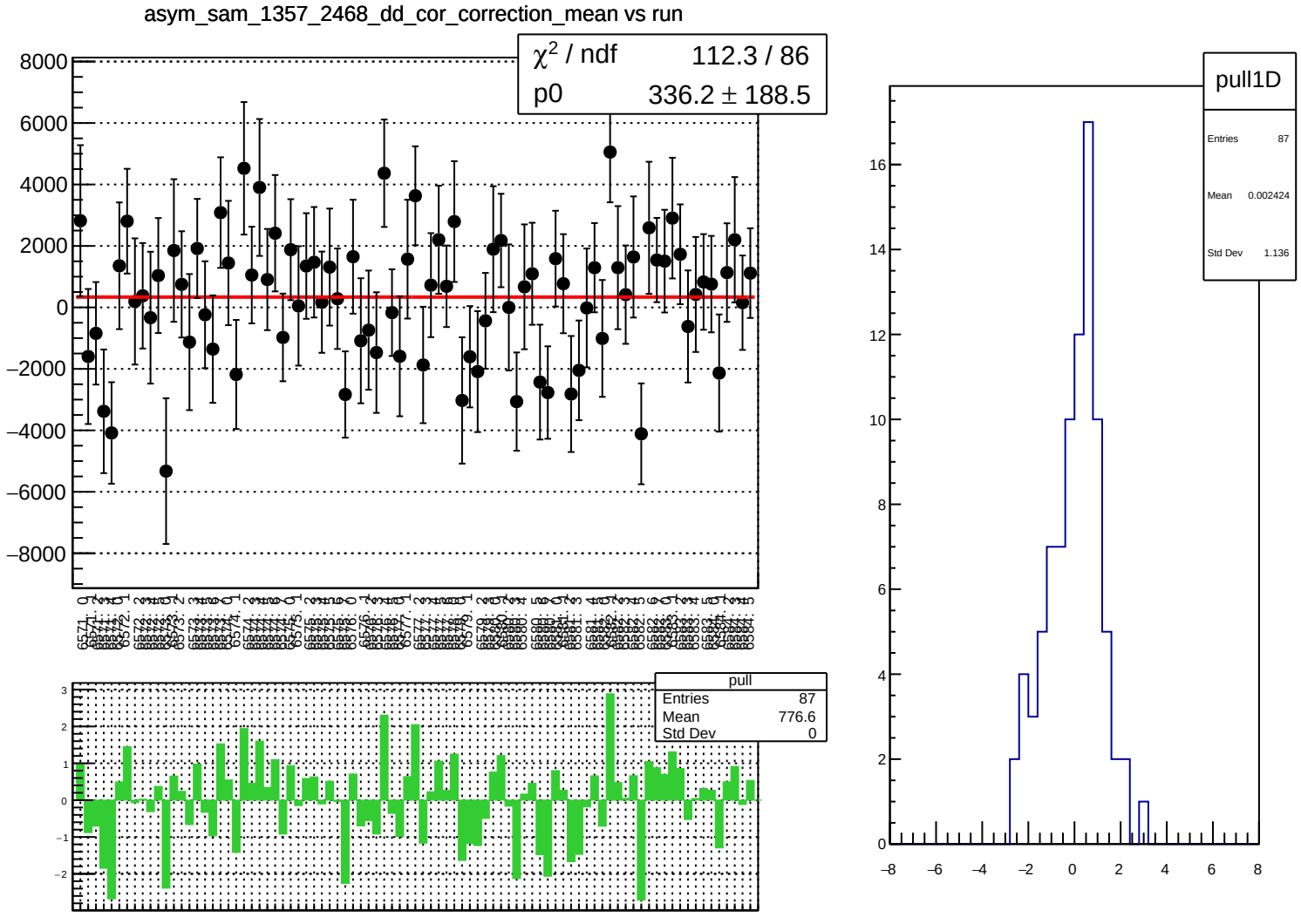

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 112.3 / 86
p0 336.3 ± 188.5
pull
Entries 87
Mean 776.8
Std Dev 0
pull1D
Entries 87
Mean 0.002424
Std Dev 1.136

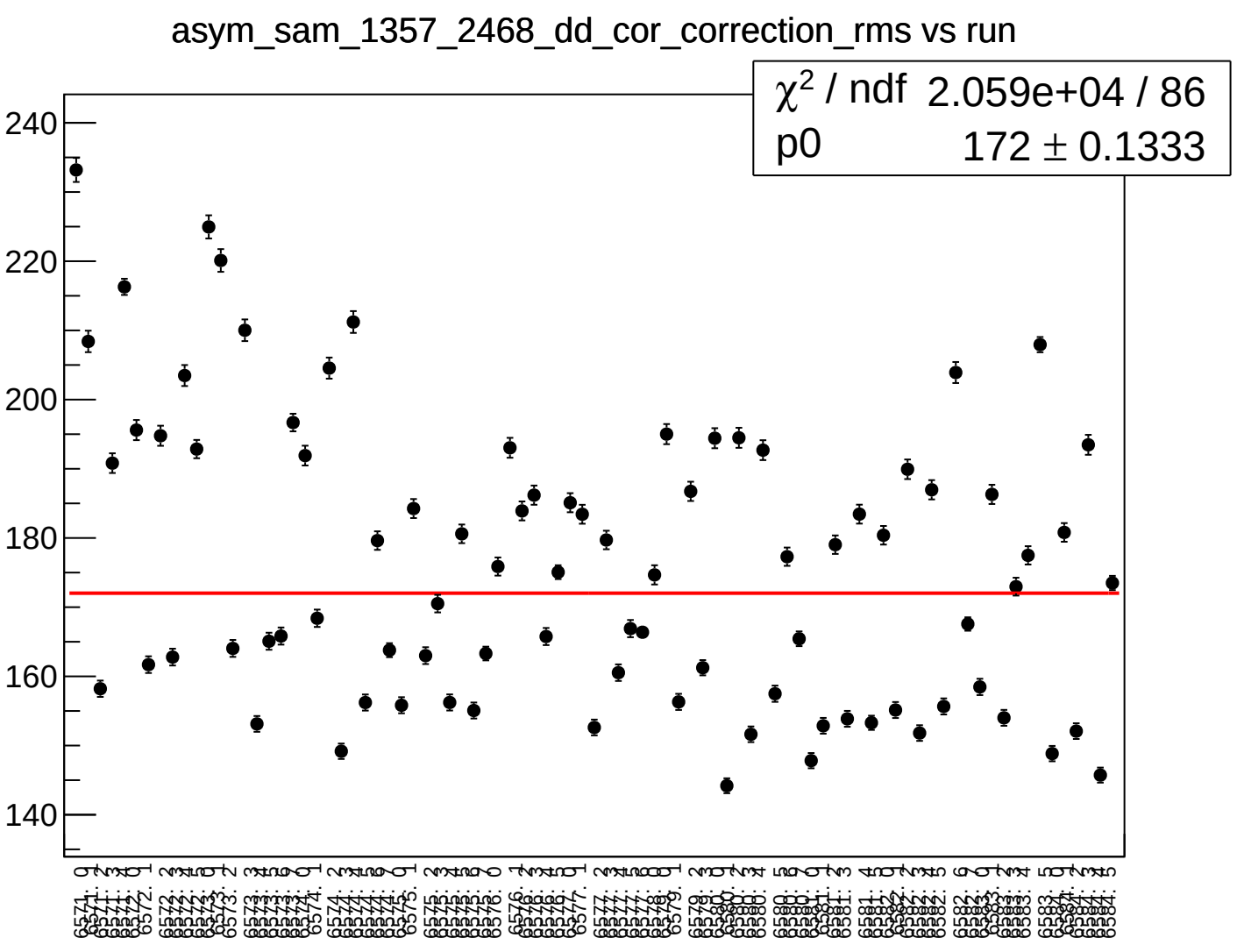

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2.059e+04 / 86
p0 172 ± 0.1333
240
220
200
180
160
140

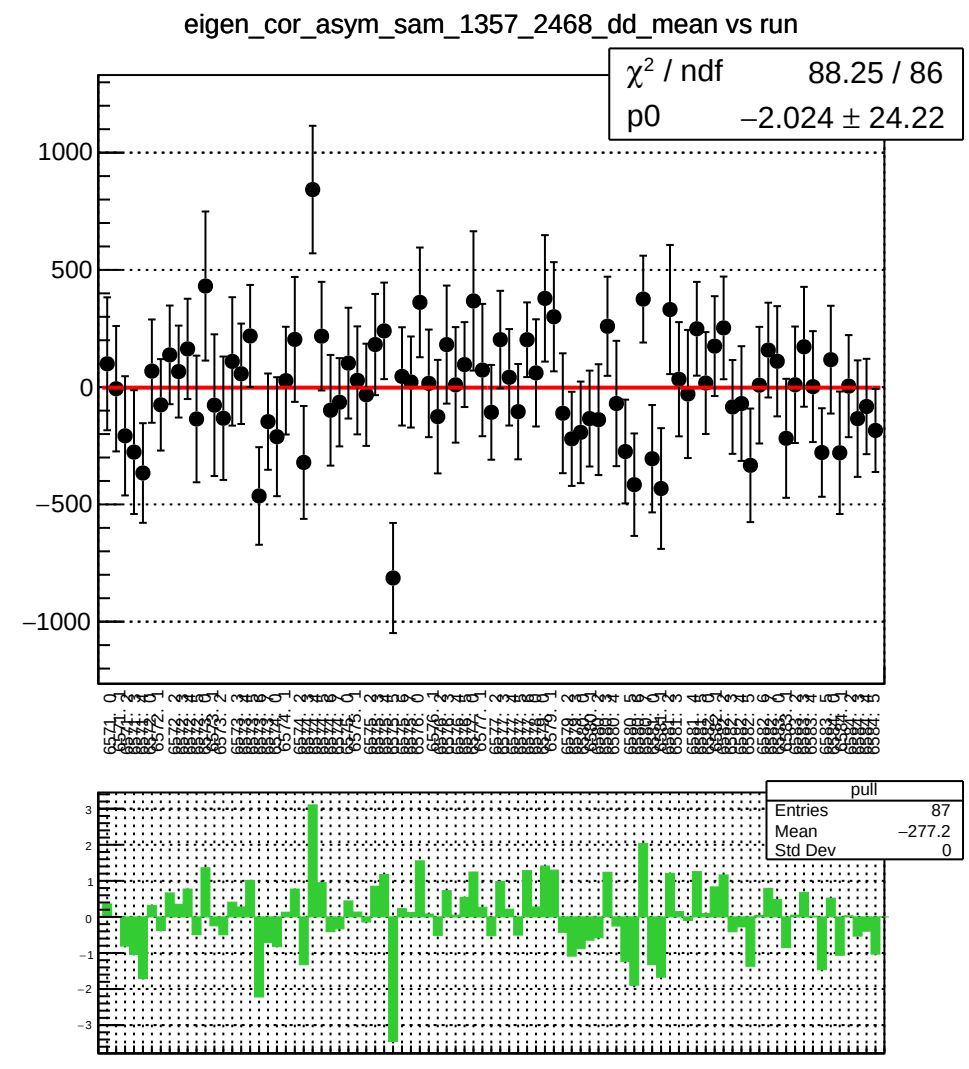

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 88.25 / 86
p0 −2.024 ± 24.22
1000
500
0
−500
−1000
pull
Entries 87
Mean −277.2
Std Dev 0
3
2
1
0
−1
−2
−3

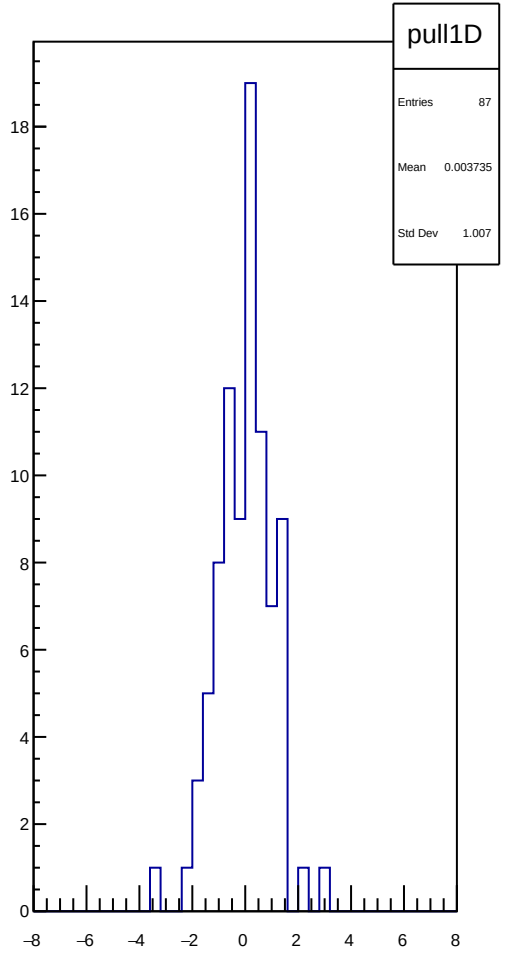

pull1D
Entries 87
Mean 0.003735
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

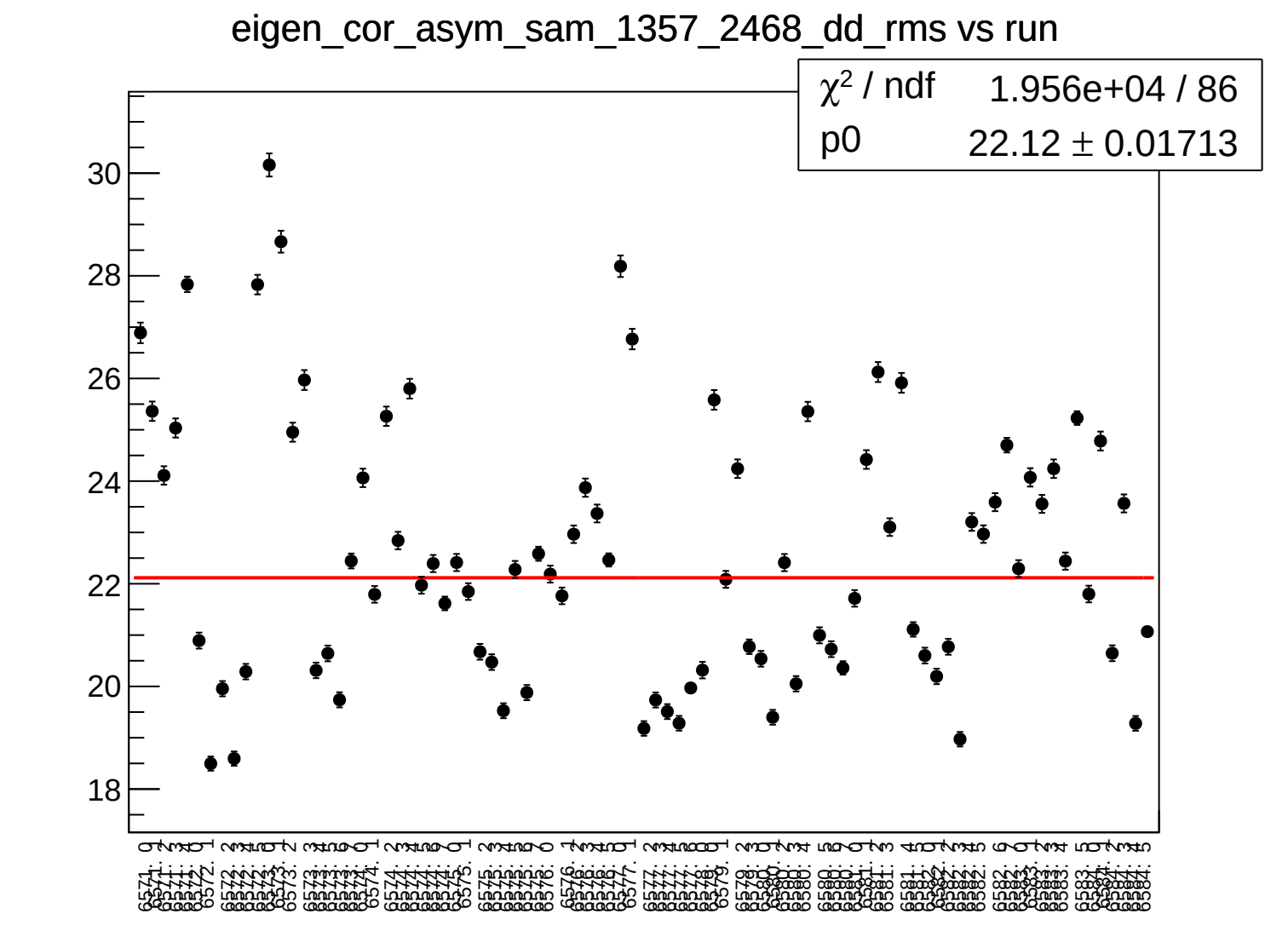

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.956e+04 / 86
p0 22.12 ± 0.01713
30
28
26
24
22
20
18

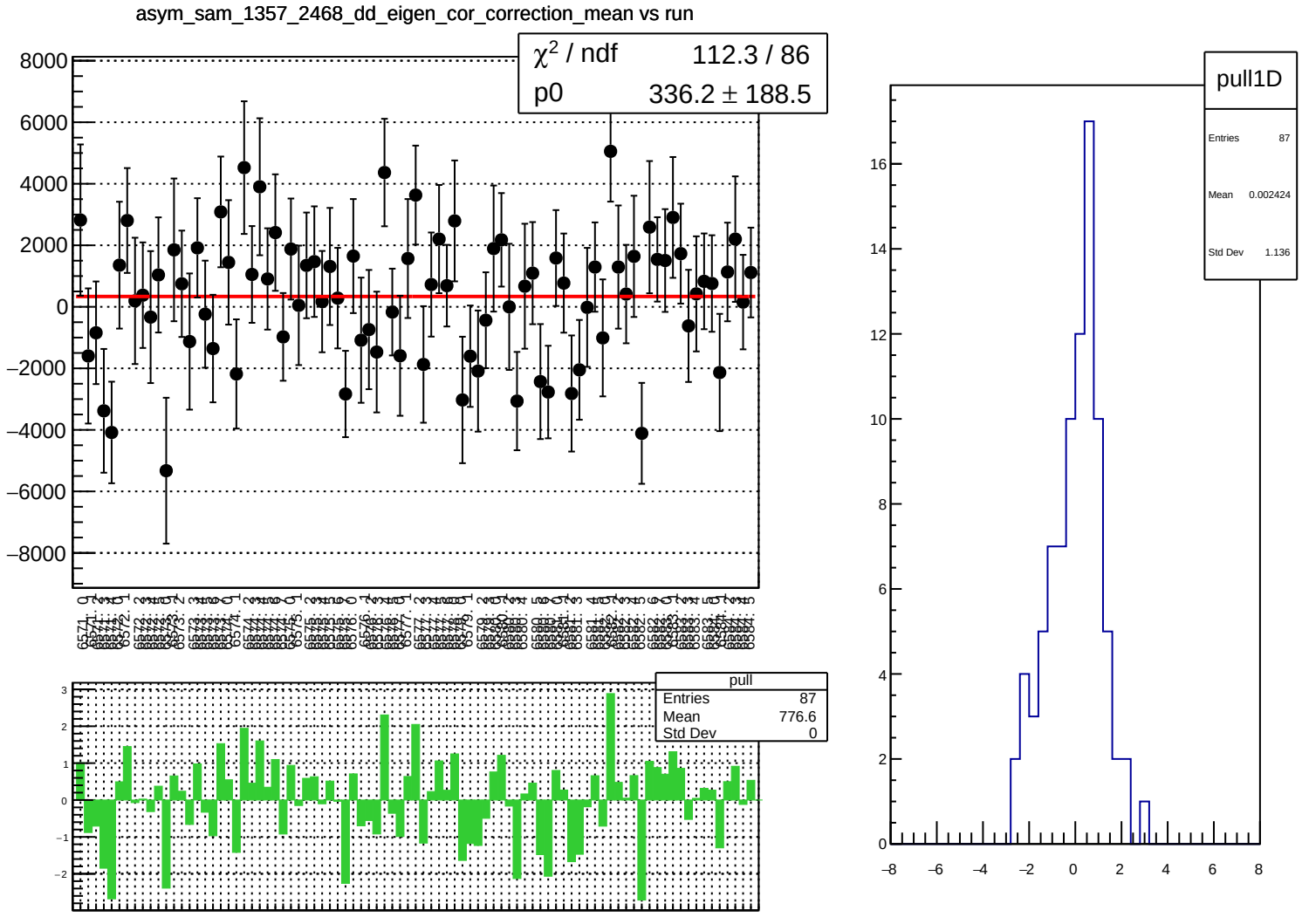

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 112.3 / 86
p0 336.2 ± 188.5
pull
Entries 87
Mean 776.6
Std Dev 0
pull1D
Entries 87
Mean 0.002424
Std Dev 1.136

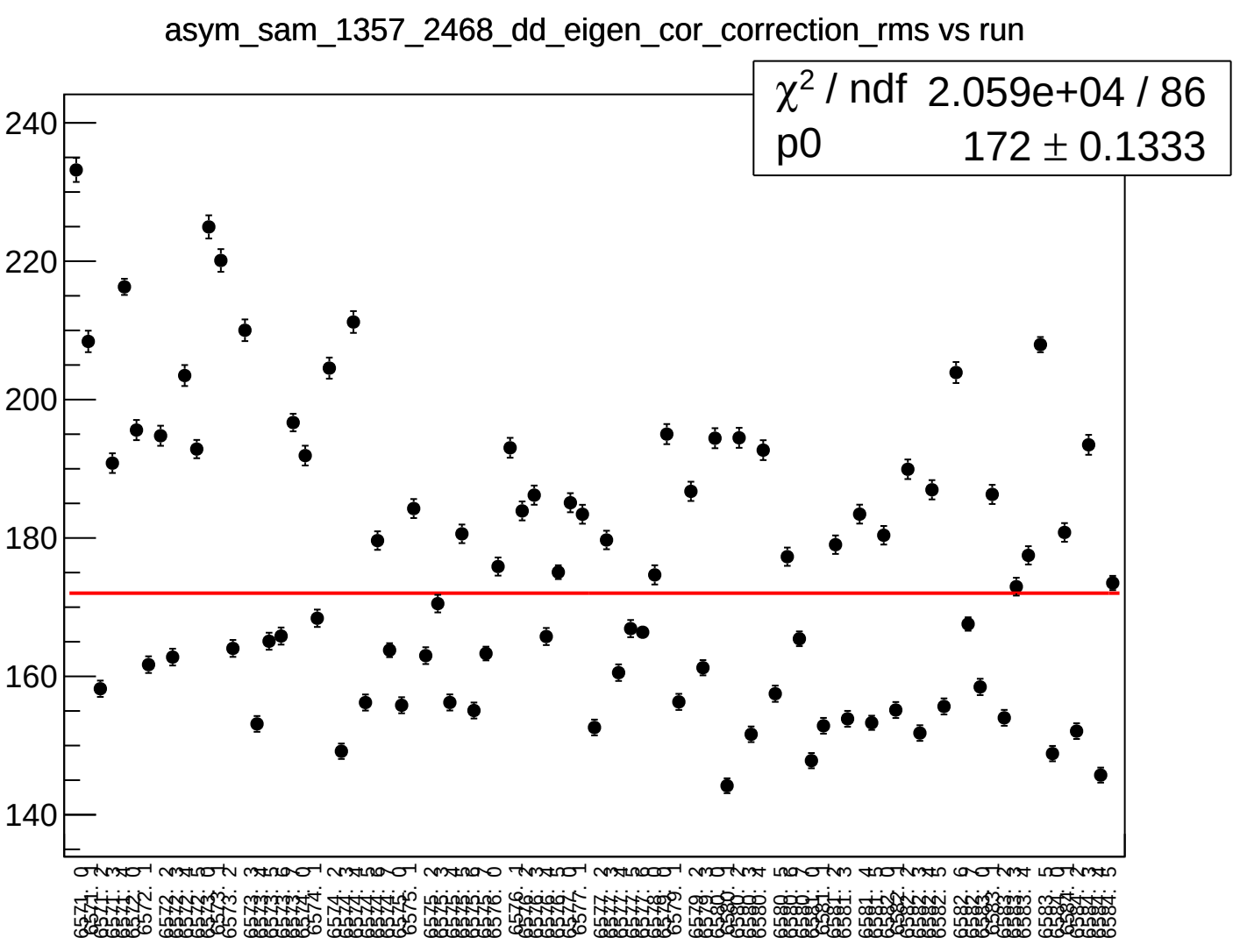

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2.059e+04 / 86
p0 172 ± 0.1333
240
220
200
180
160
140

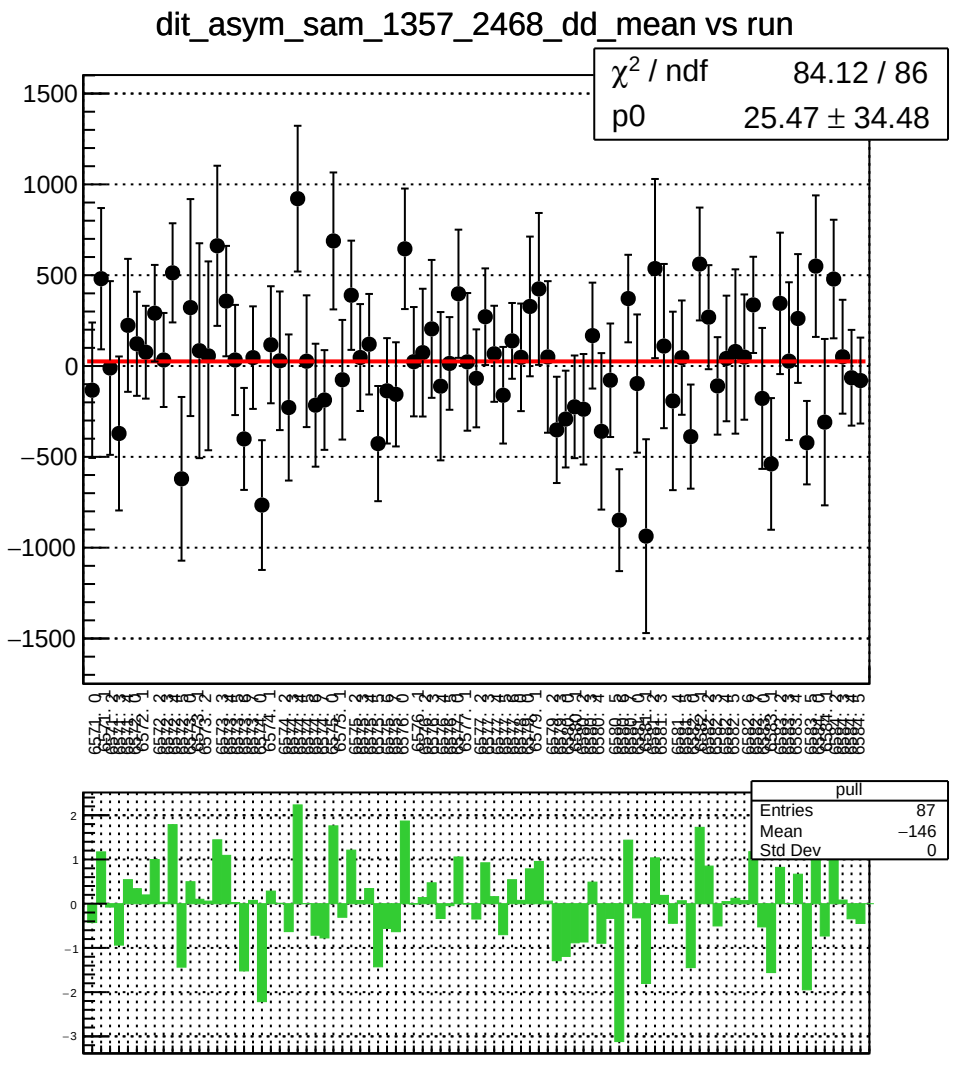

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 88.25 / 86
p0 −2.024 ± 24.22
1000
500
0
−500
−1000
pull
Entries 87
Mean −277.2
Std Dev 0
3
2
1
0
−1
−2
−3

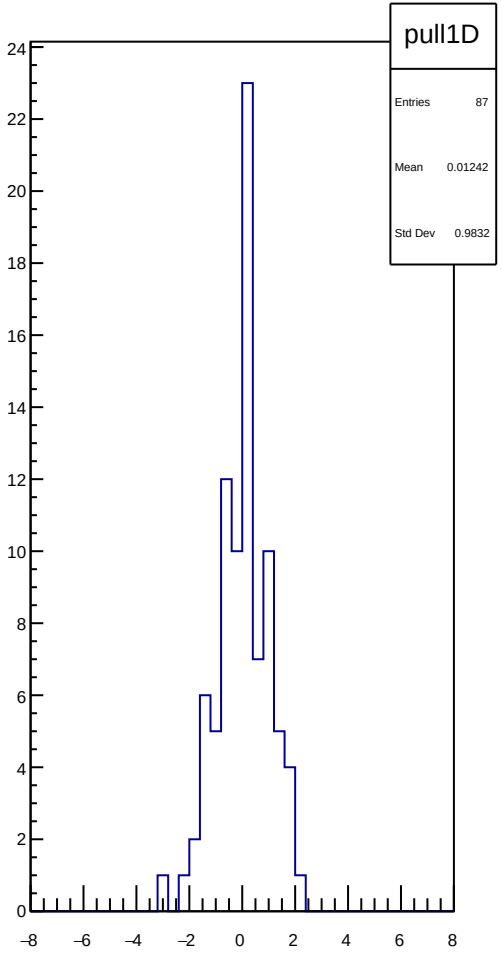

pull1D
Entries 87
Mean 0.003735
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

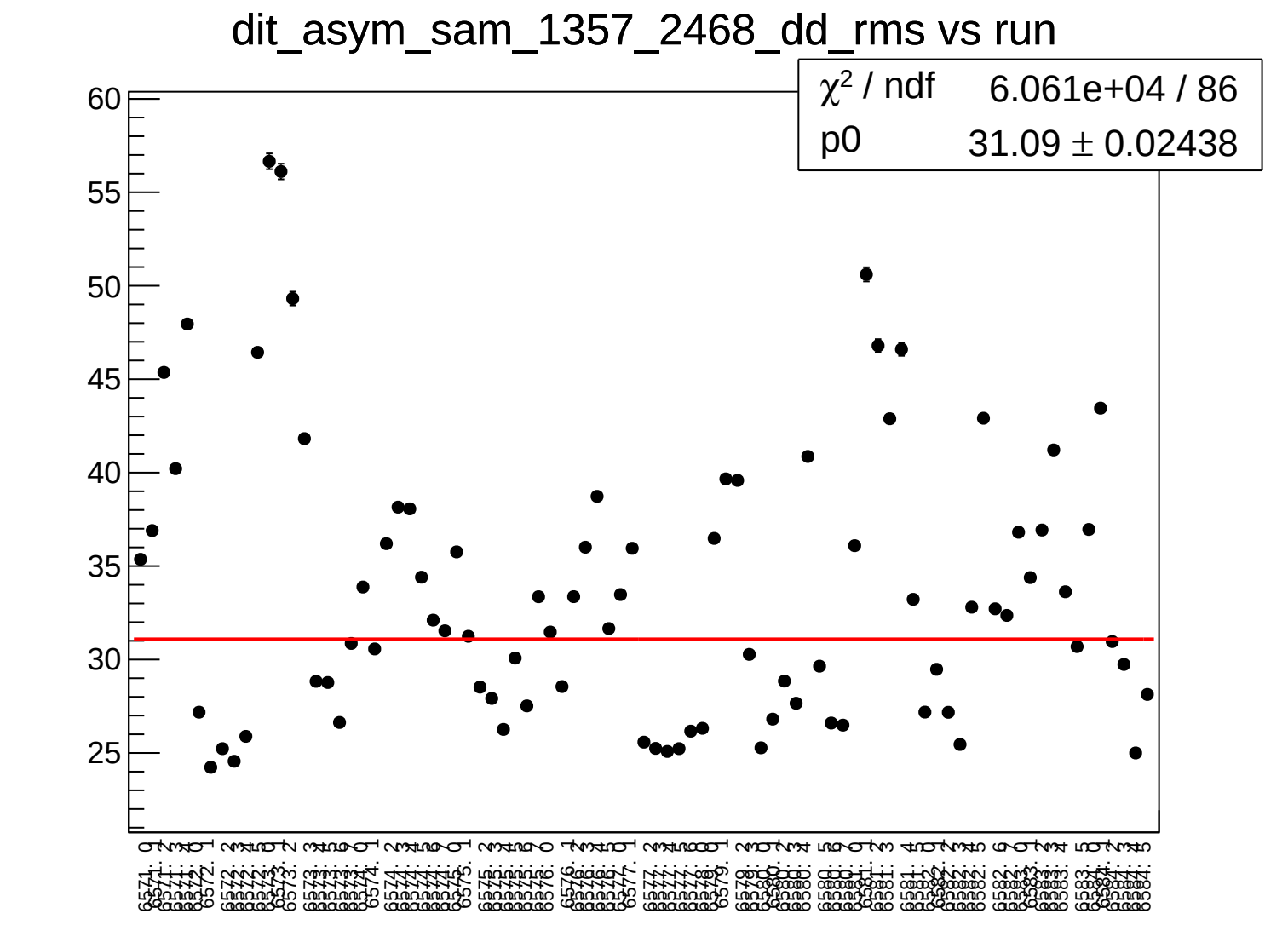

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.956e+04 / 86
p0 22.12 ± 0.01713
30
28
26
24
22
20
18

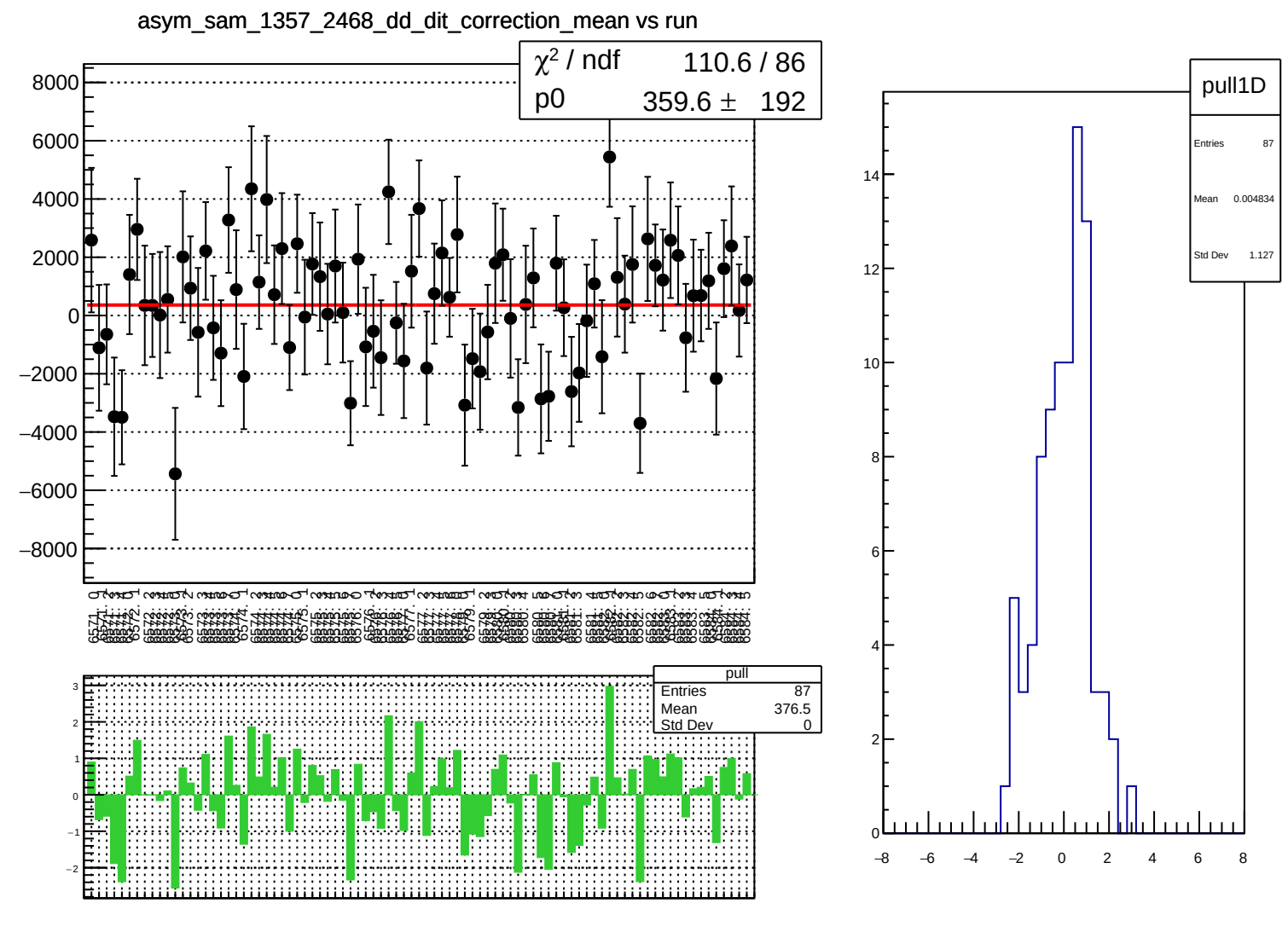

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.3 / 86
p0 336.2 ± 188.5
pull
Entries 87
Mean 776.6
Std Dev 0
pull1D
Entries 87
Mean 0.002424
Std Dev 1.136

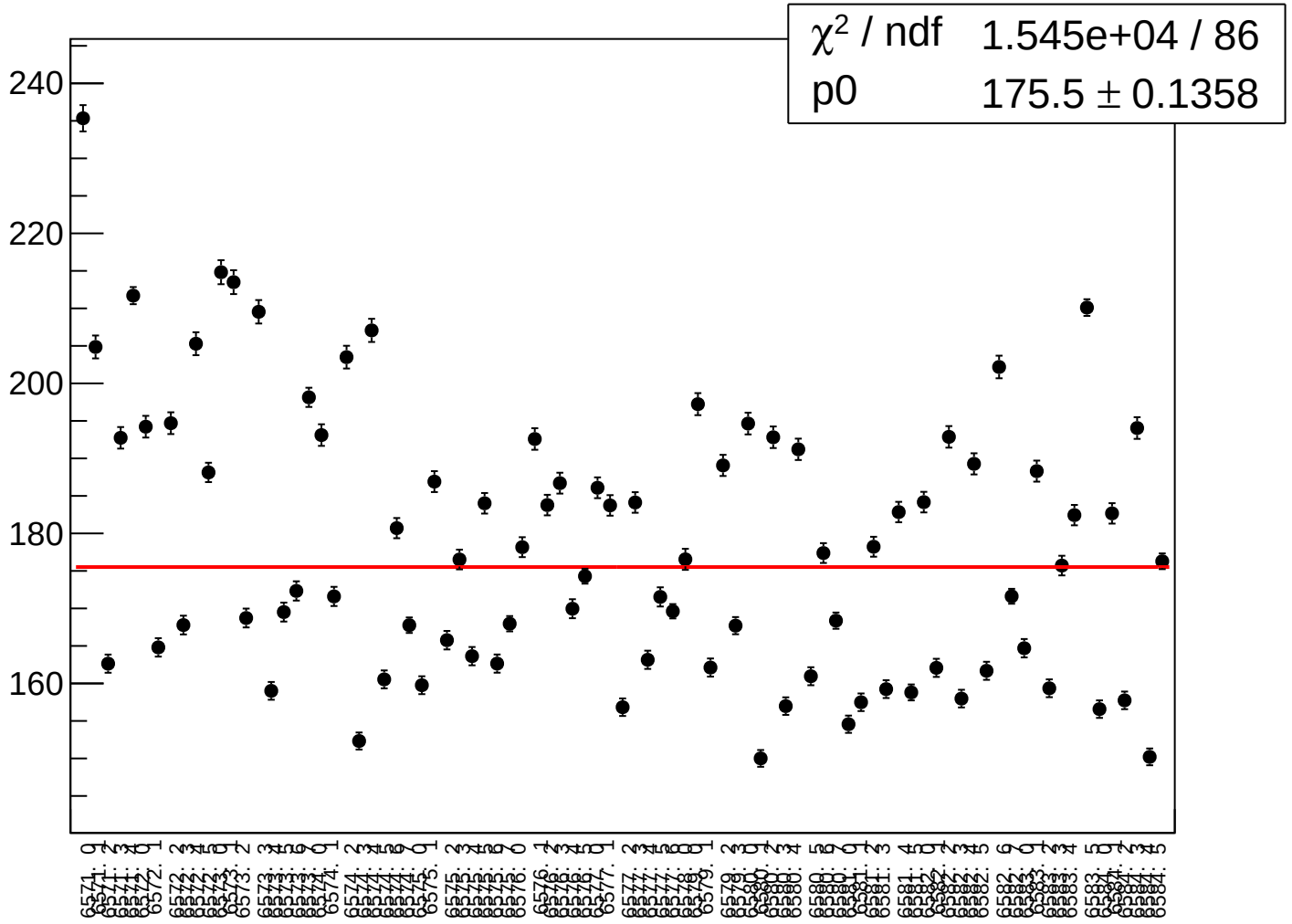

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.059e+04 / 86
p0 172 ± 0.1333
240
220
200
180
160
140

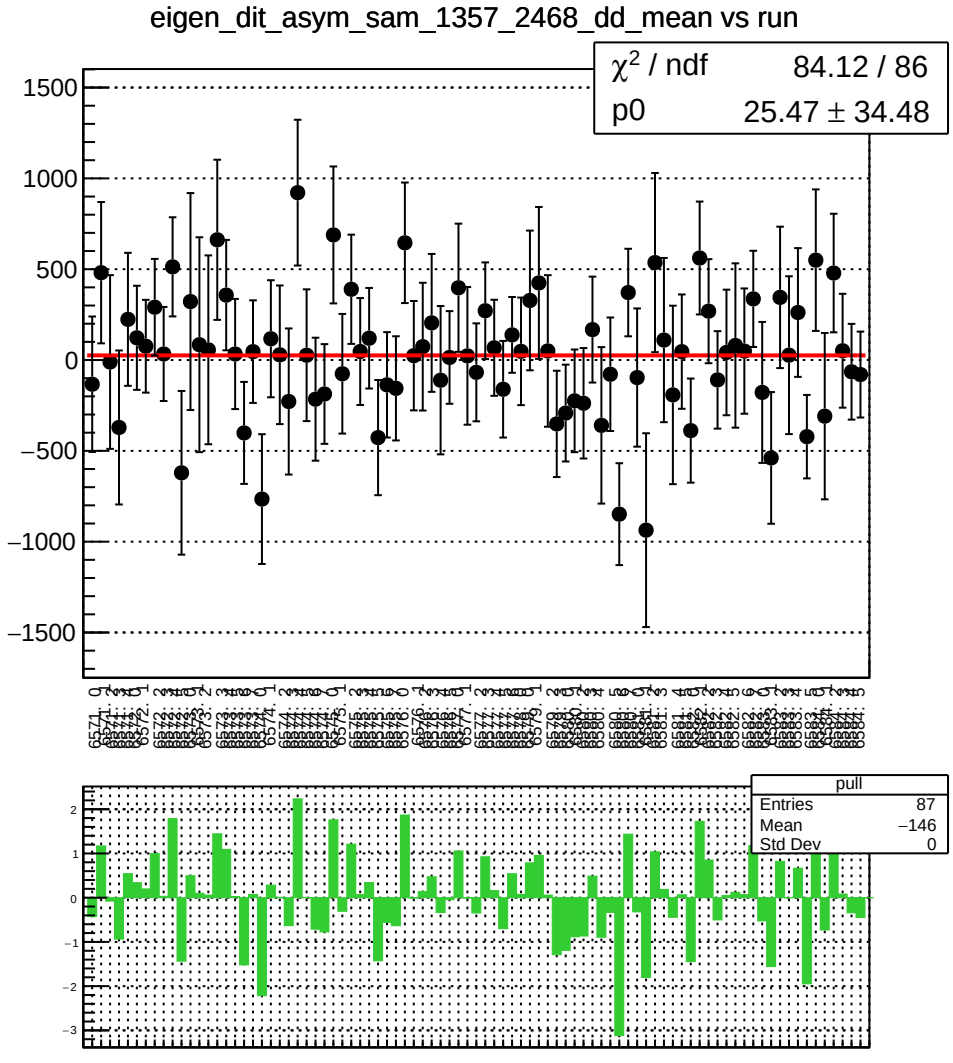

dit_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 84.12 / 86
p0 25.47 ± 34.48
1500
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean −146
Std Dev 0
2
1
0
−1
−2
−3

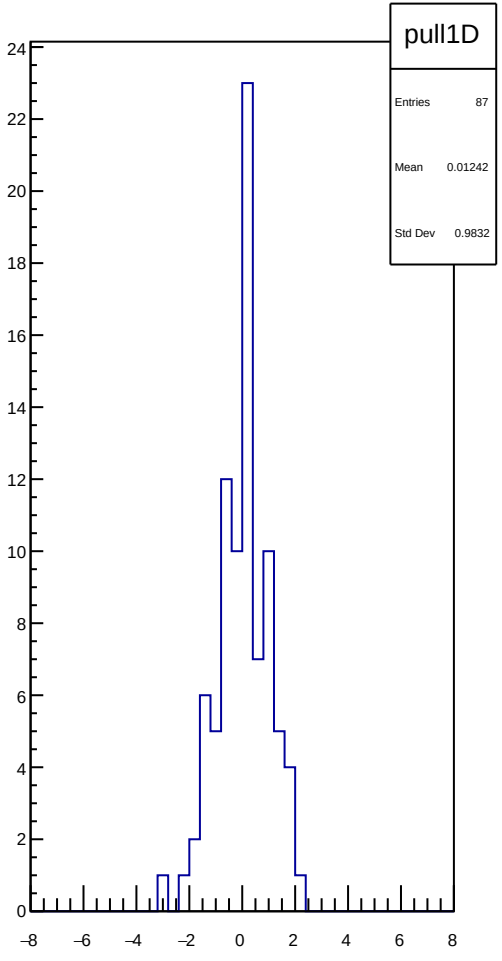

pull1D
Entries 87
Mean 0.01242
Std Dev 0.9832
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

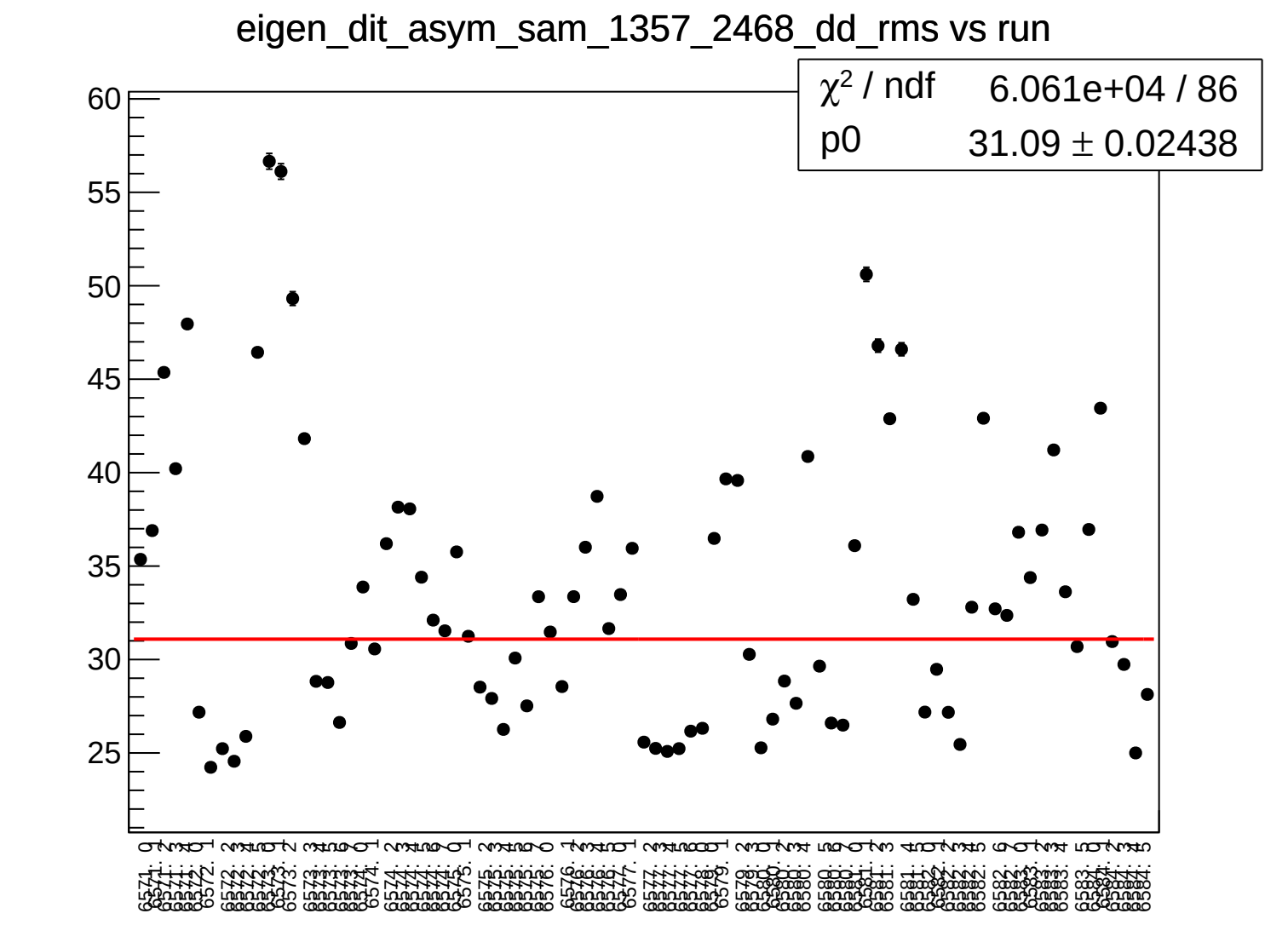

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6.061e+04 / 86
p0 31.09 ± 0.02438
60
55
50
45
40
35
30
25

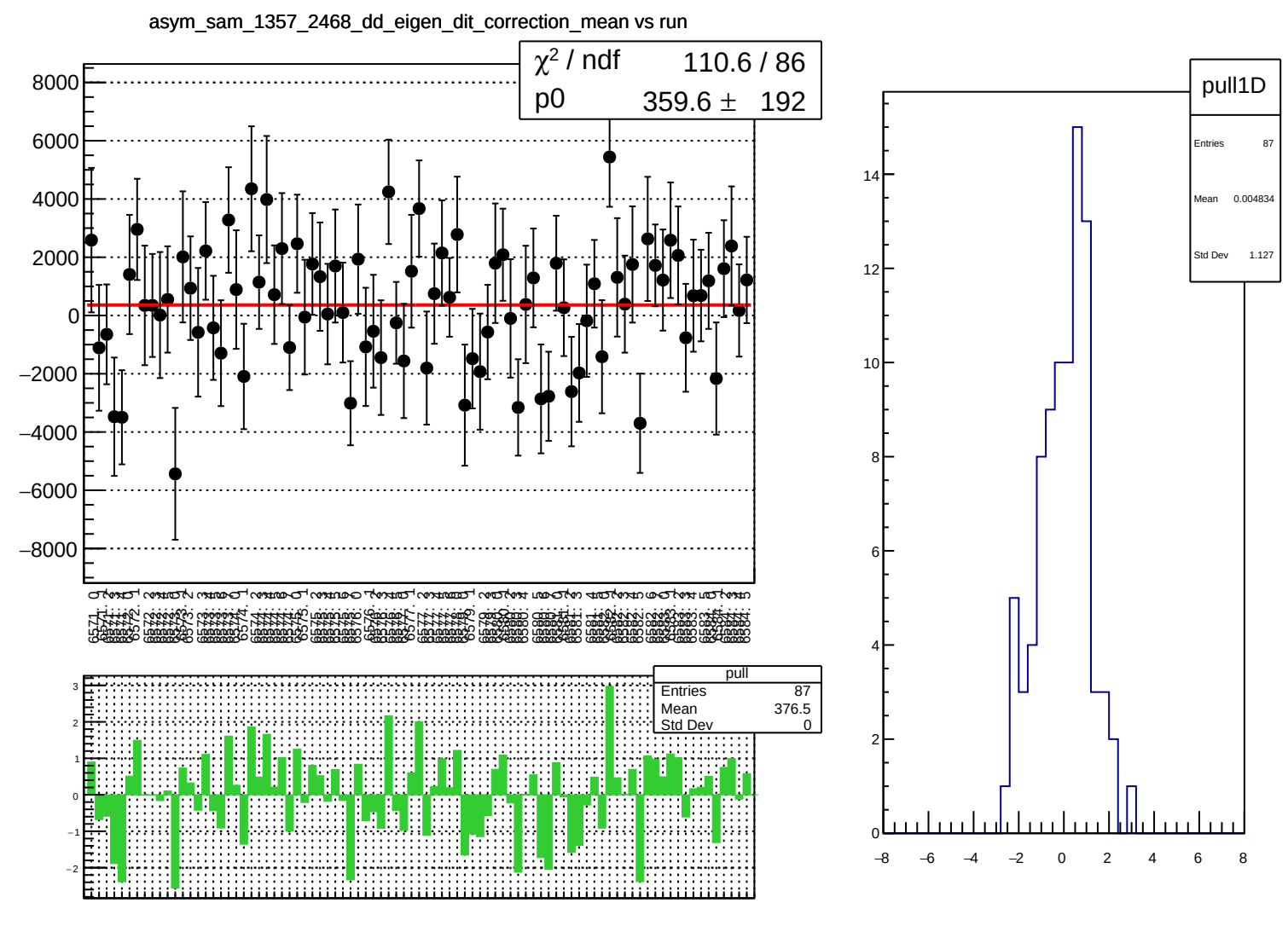

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 110.6 / 86
p0 359.6 ± 192
pull
Entries 87
Mean 376.5
Std Dev 0
pull1D
Entries 87
Mean 0.004834
Std Dev 1.127

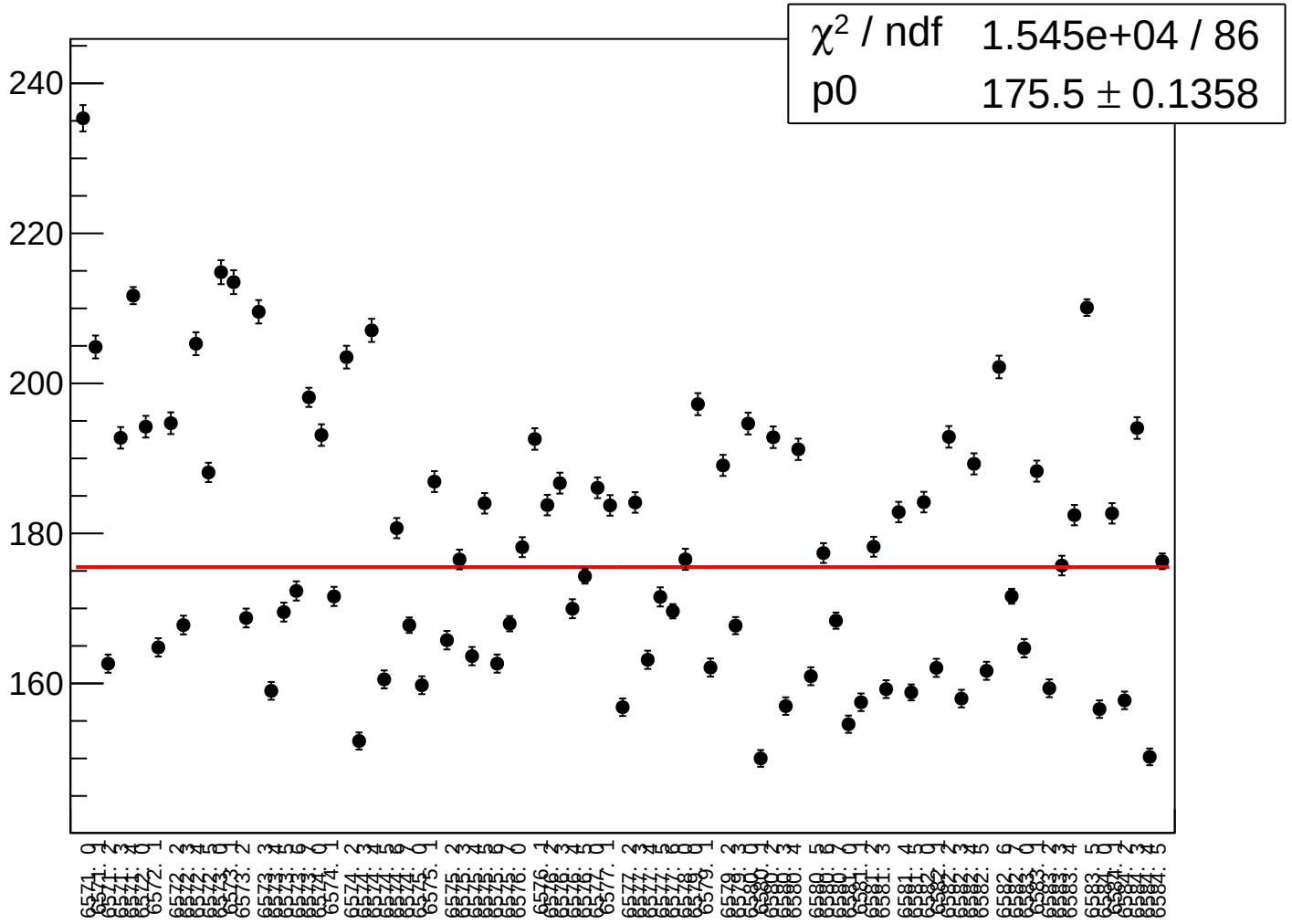

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.545e+04 / 86
p0 175.5 ± 0.1358
240
220
200
180
160

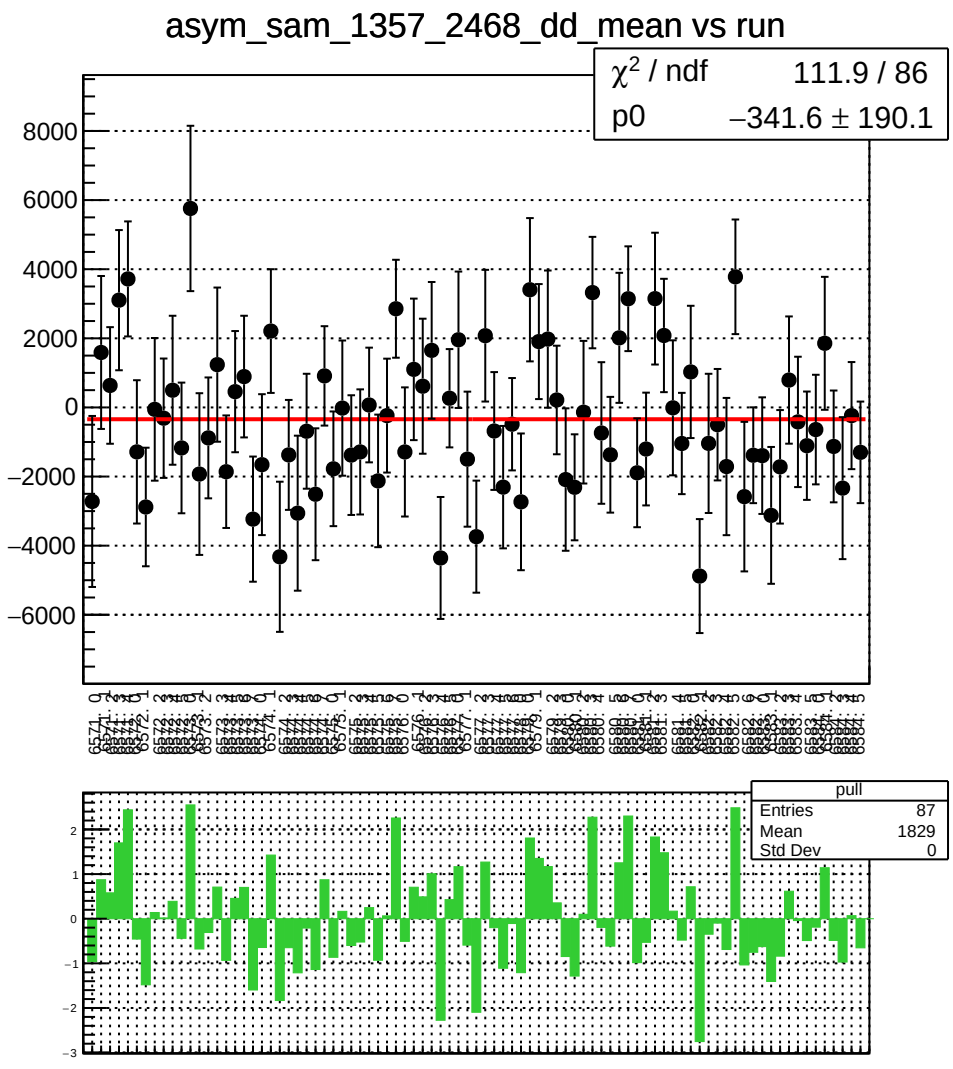

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 84.12 / 86
p0 25.47 ± 34.48
1500
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean −146
Std Dev 0
2
1
0
−1
−2
−3

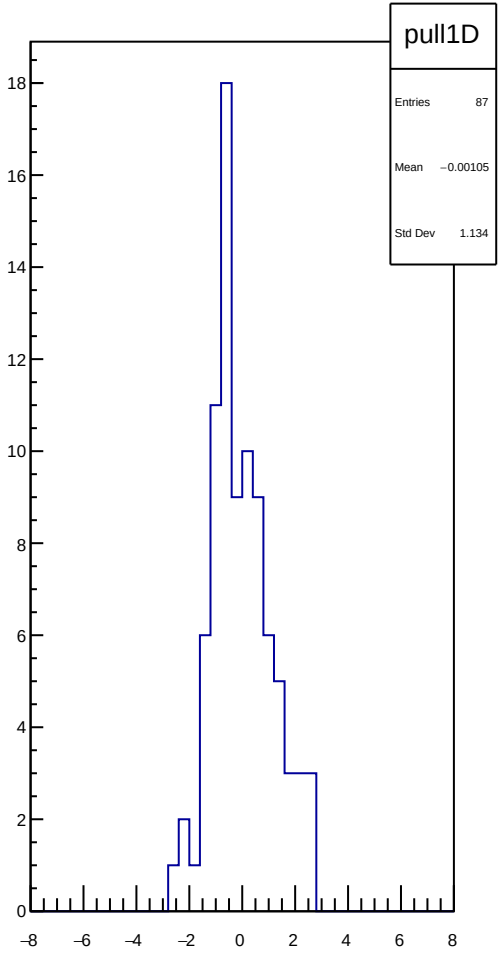

pull1D
Entries 87
Mean 0.01242
Std Dev 0.9832
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

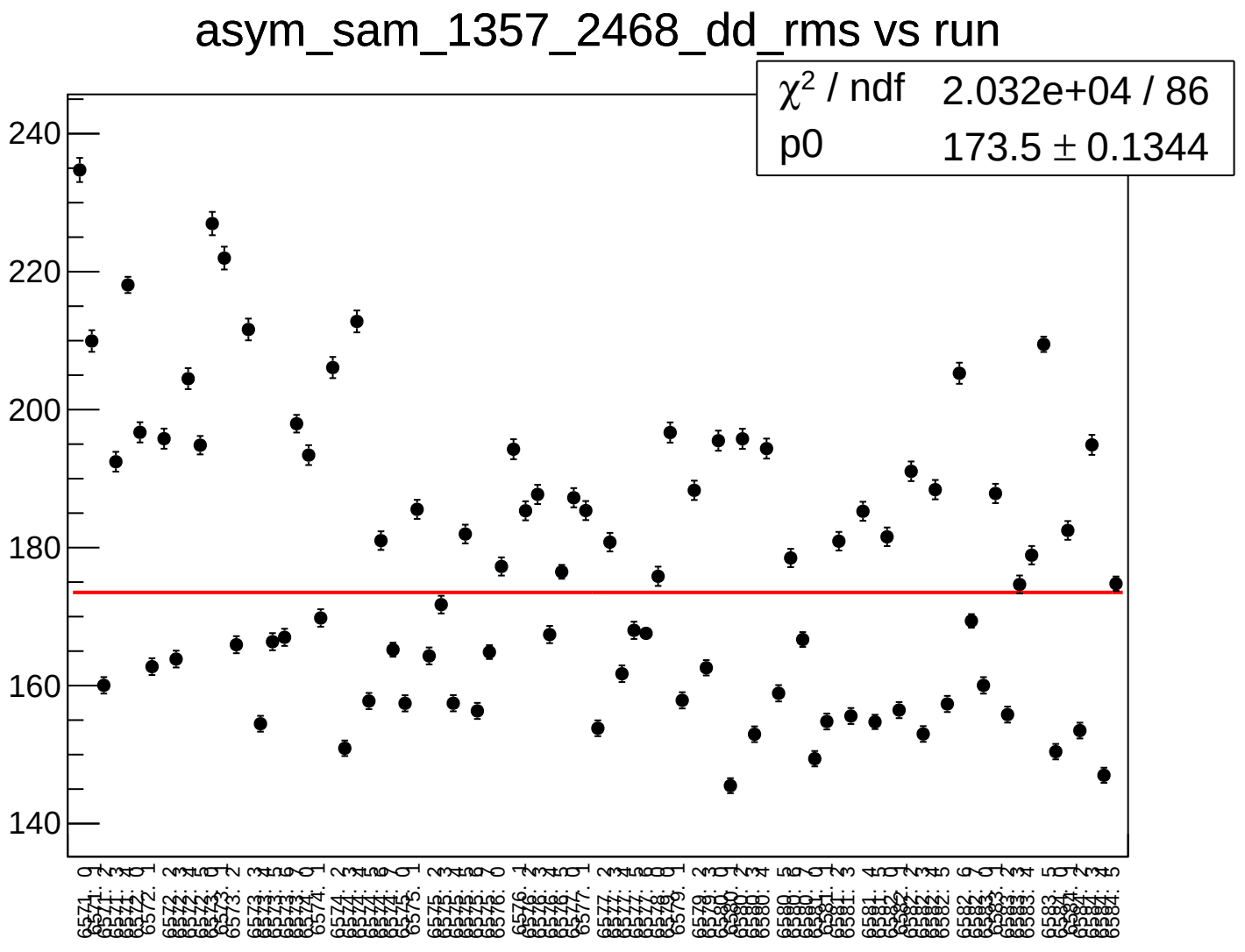

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6.061e+04 / 86
p0 31.09 ± 0.02438
60
55
50
45
40
35
30
25

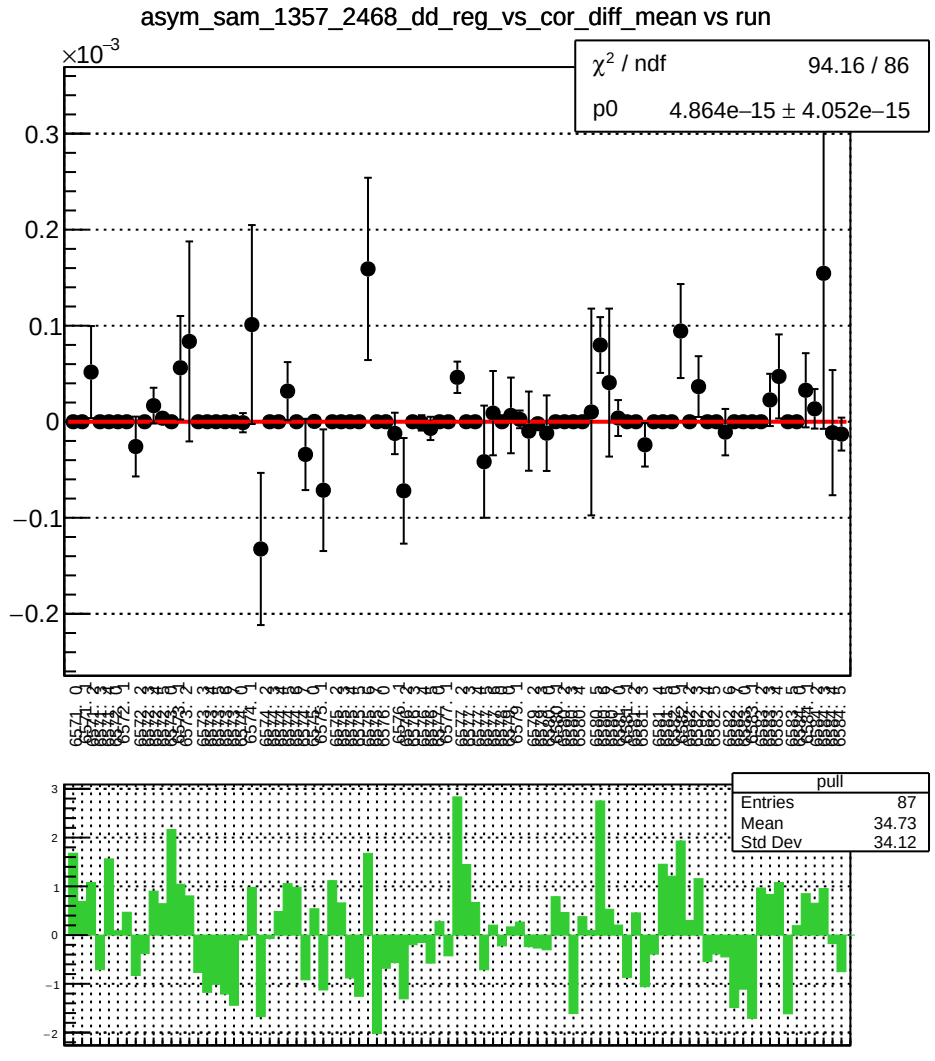

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.6 / 86
p0 359.6 ± 192
pull
Entries 87
Mean 376.5
Std Dev 0
pull1D
Entries 87
Mean 0.004834
Std Dev 1.127

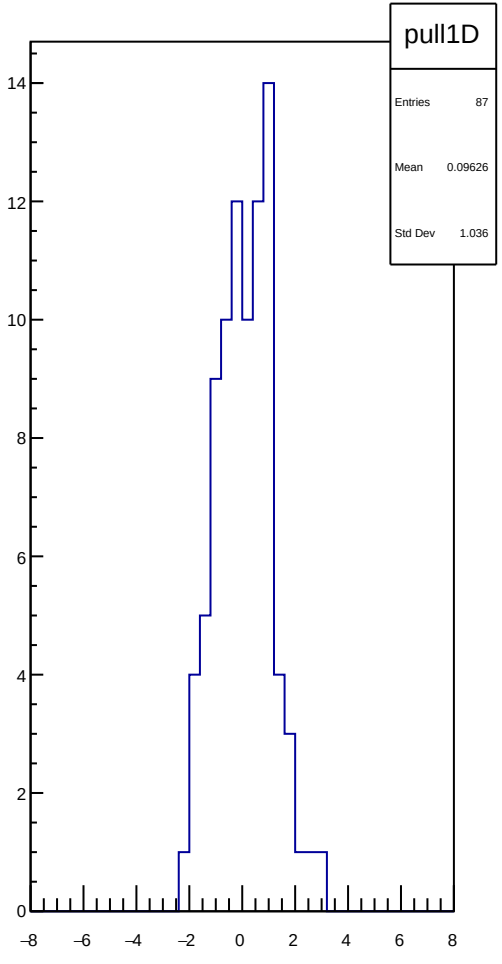

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.545e+04 / 86
p0 175.5 ± 0.1358
240
220
200
180
160

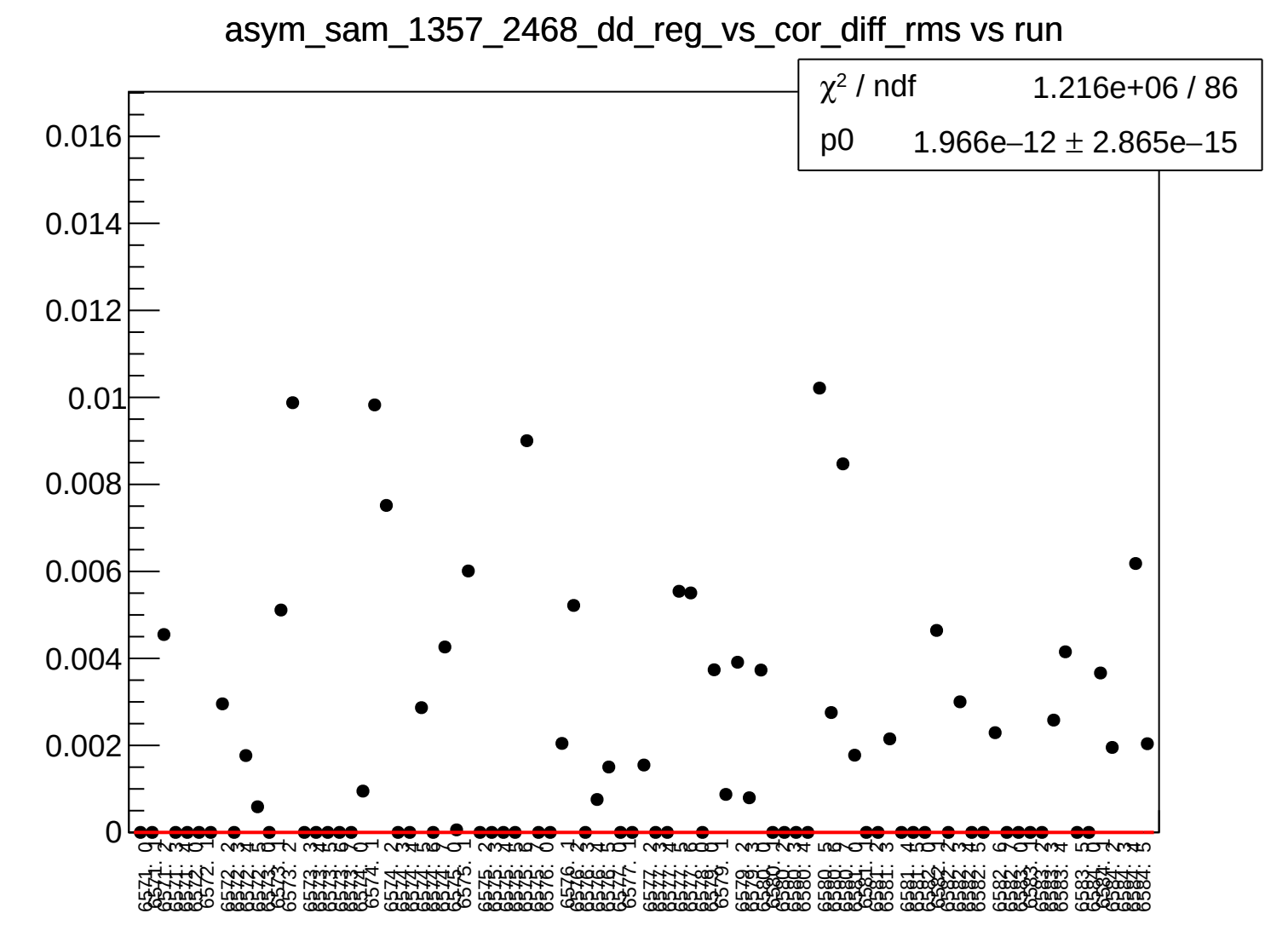

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 111.9 / 86
p0 −341.6 ± 190.1
pull
Entries 87
Mean 1829
Std Dev 0

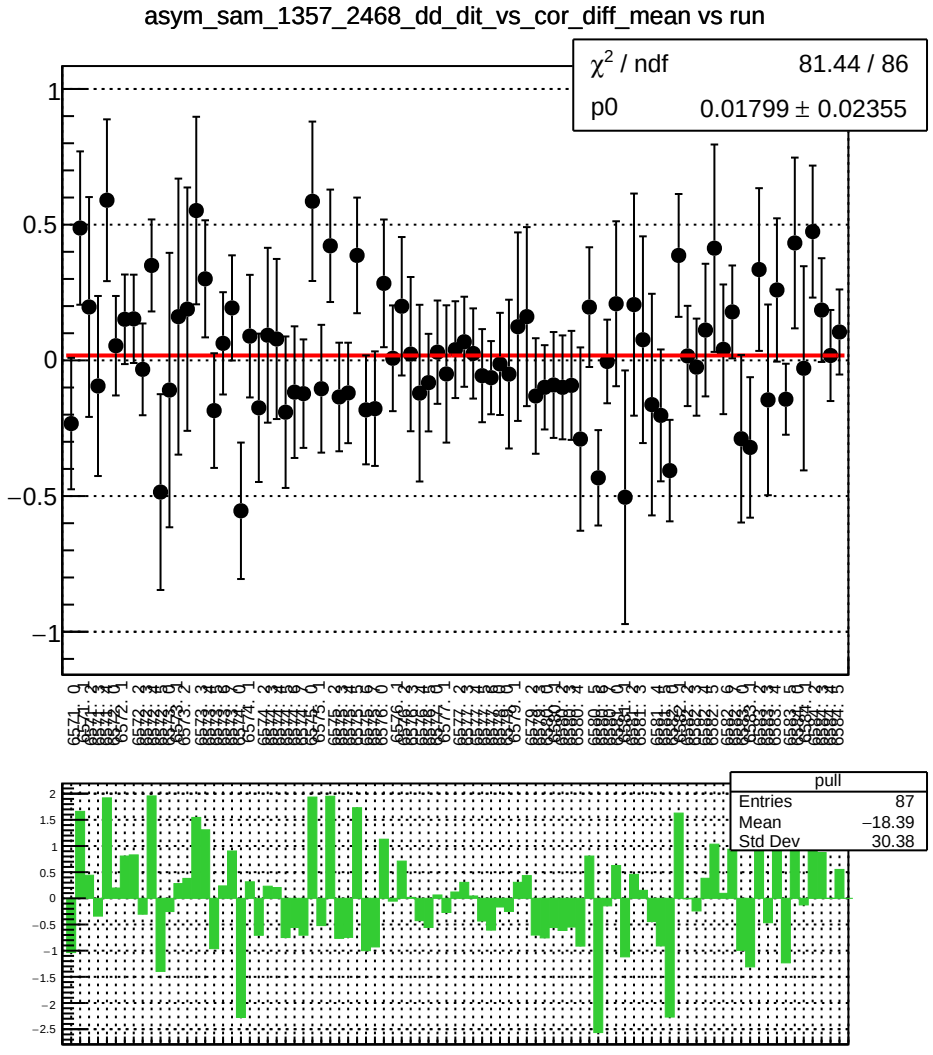

pull1D
Entries 87
Mean −0.00105
Std Dev 1.134

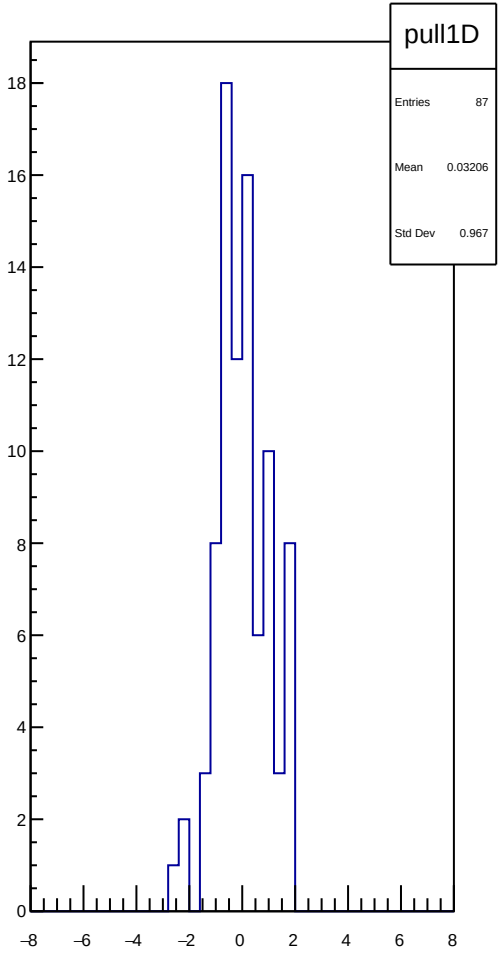

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.032e+04 / 86
p0 173.5 ± 0.1344
240
220
200
180
160
140

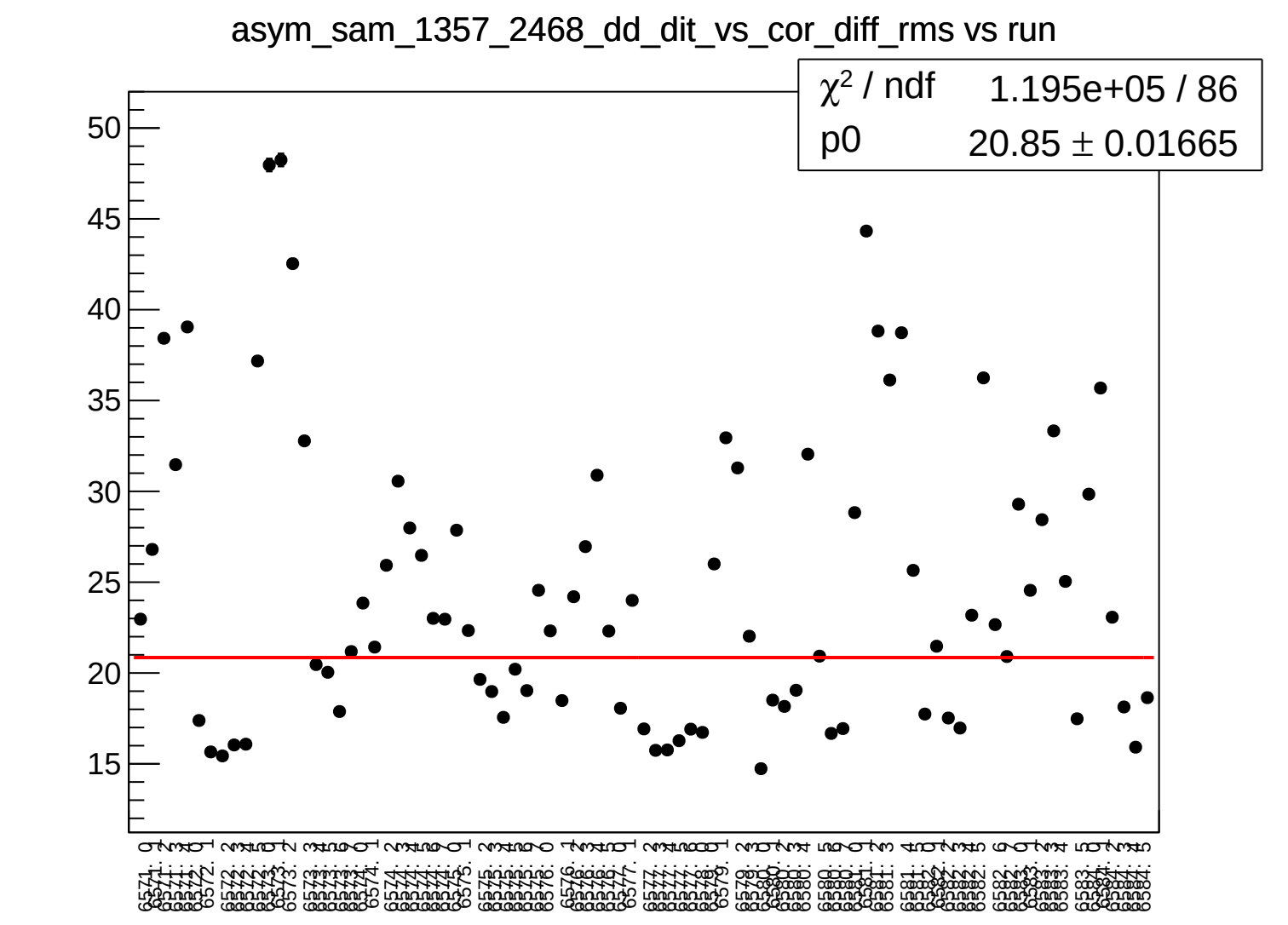

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 94.16 / 86
p0 4.864e−15 ± 4.052e−15
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 87
Mean 34.73
Std Dev 34.12
3
2
1
0
−1
−2

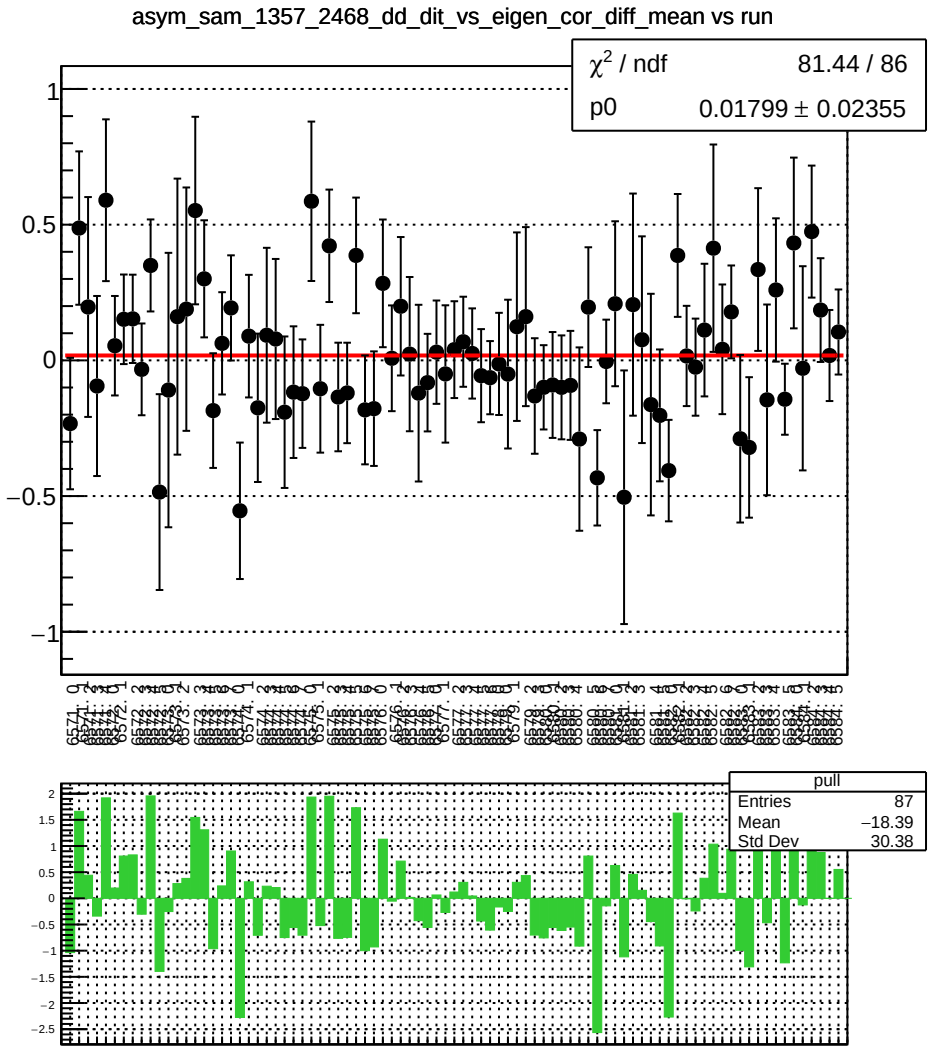

pull1D
Entries 87
Mean 0.09626
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

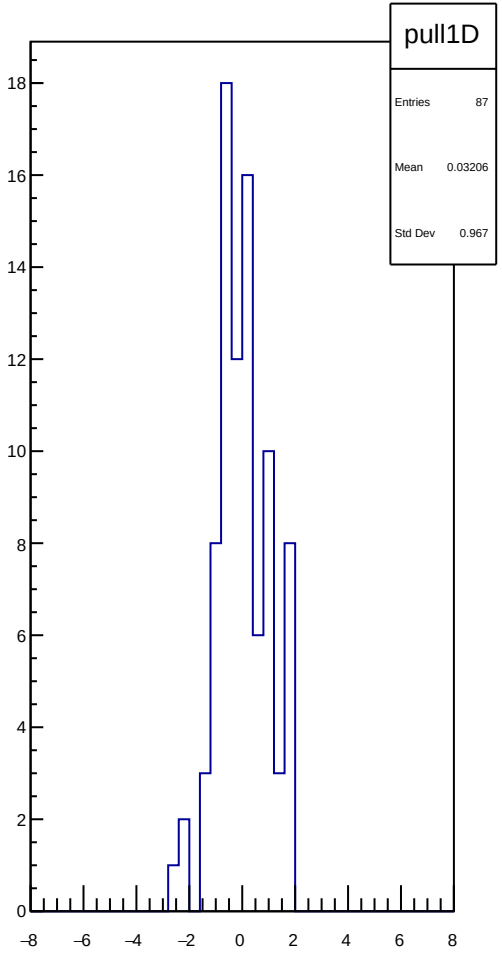

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.216e+06 / 86
p0 1.966e−12 ± 2.865e−15
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

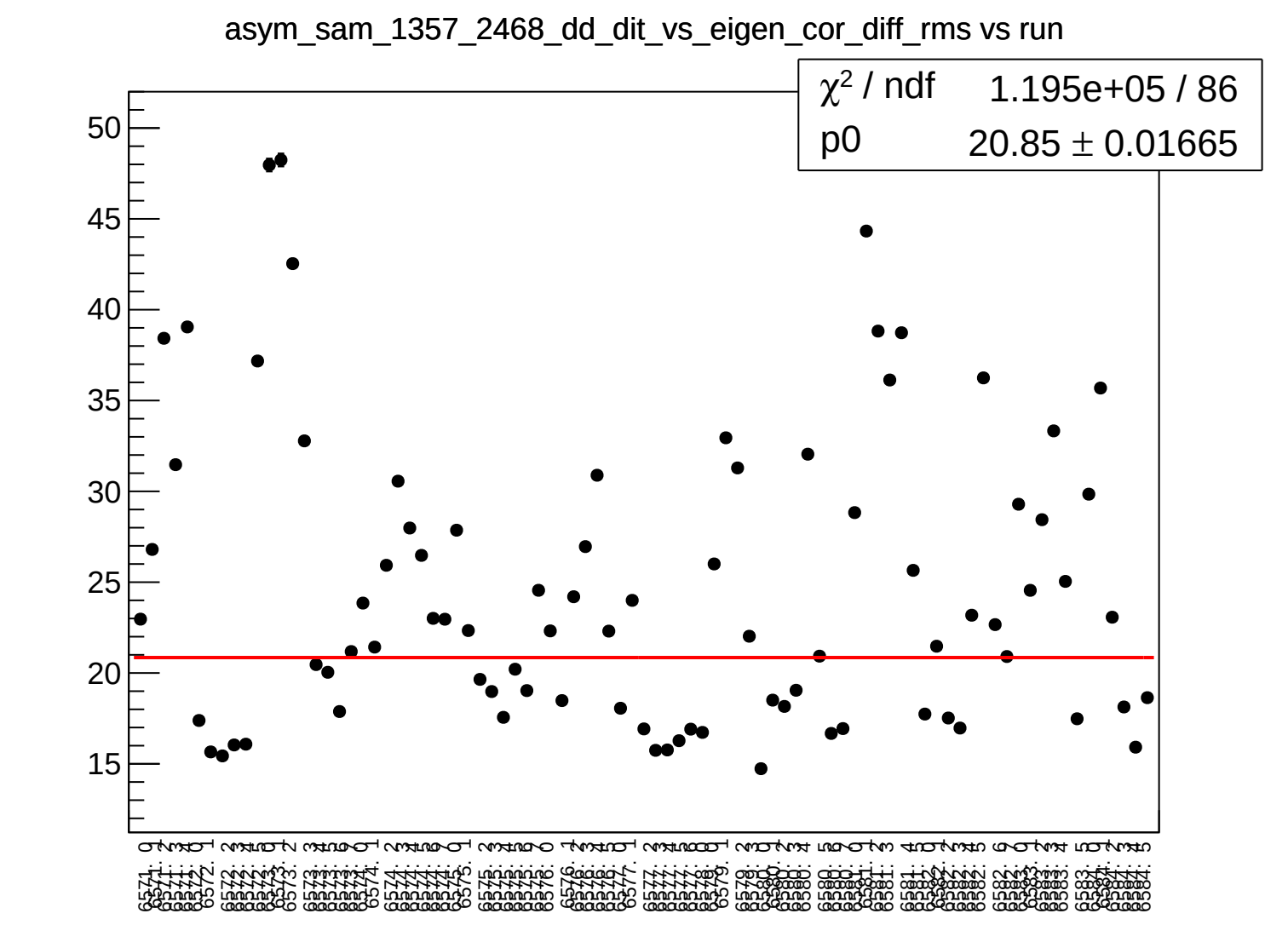

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.44 / 86
p0 0.01799 ± 0.02355
pull
Entries 87
Mean −18.39
Std Dev 30.38

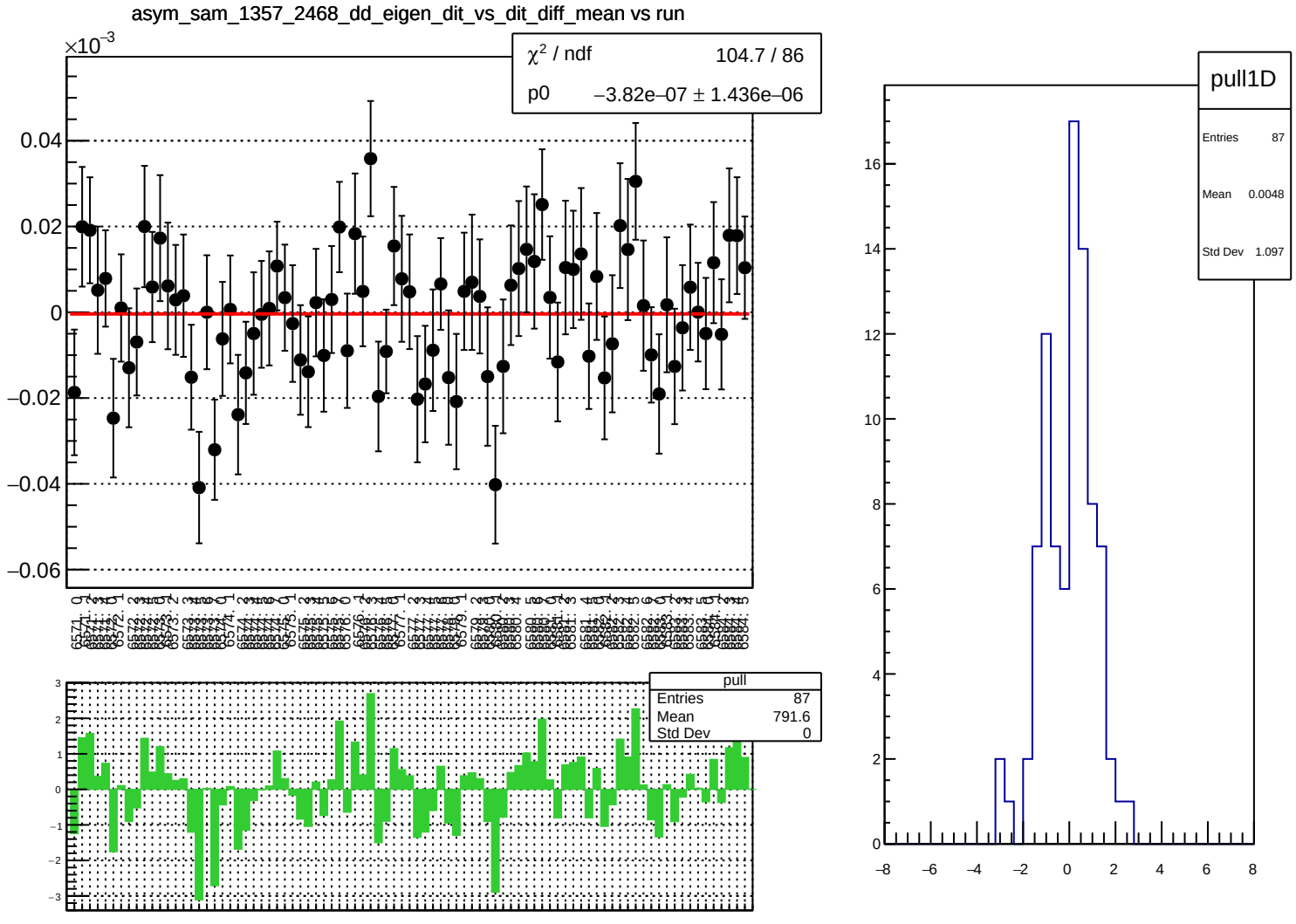

pull1D
Entries 87
Mean 0.03206
Std Dev 0.967

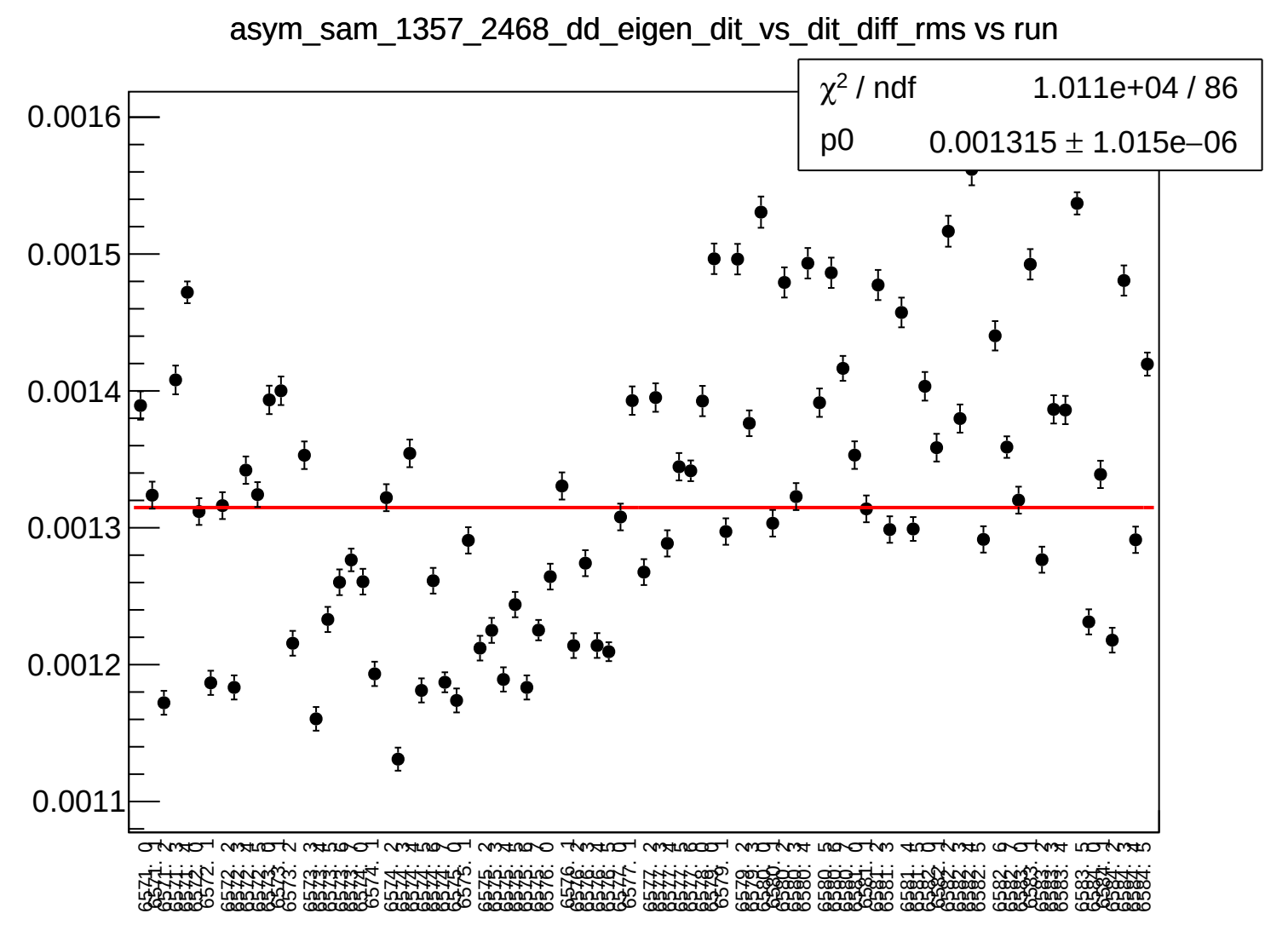

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.195e+05 / 86
p0 20.85 ± 0.01665
50
45
40
35
30
25
20
15

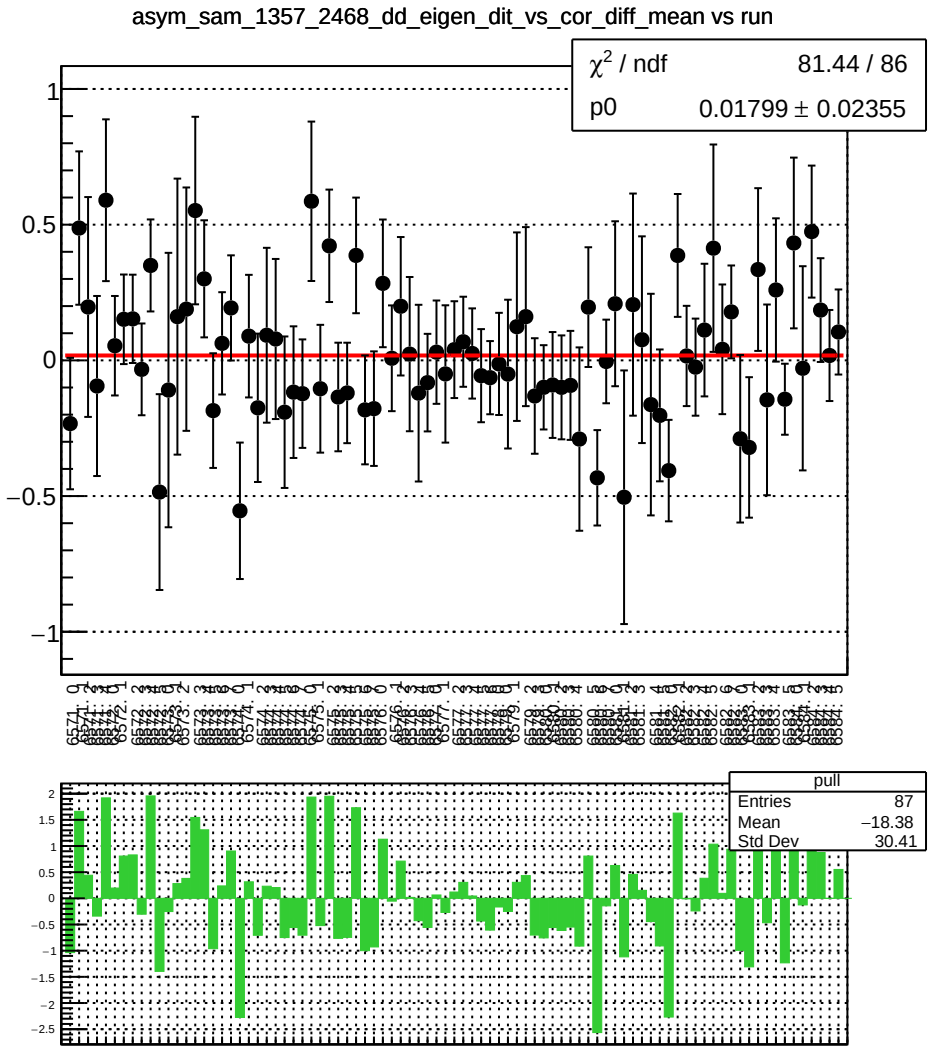

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.44 / 86
p0 0.01799 ± 0.02355
pull
Entries 87
Mean −18.39
Std Dev 30.38

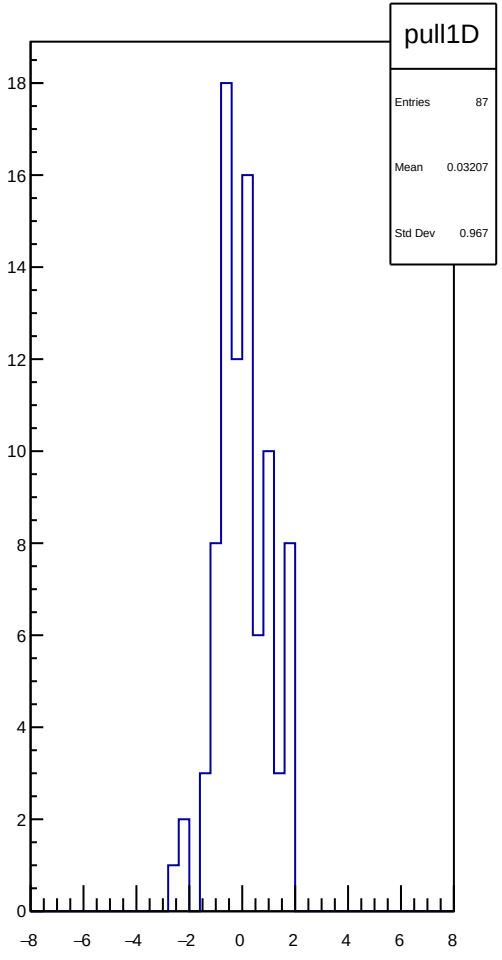

pull1D
Entries 87
Mean 0.03206
Std Dev 0.967

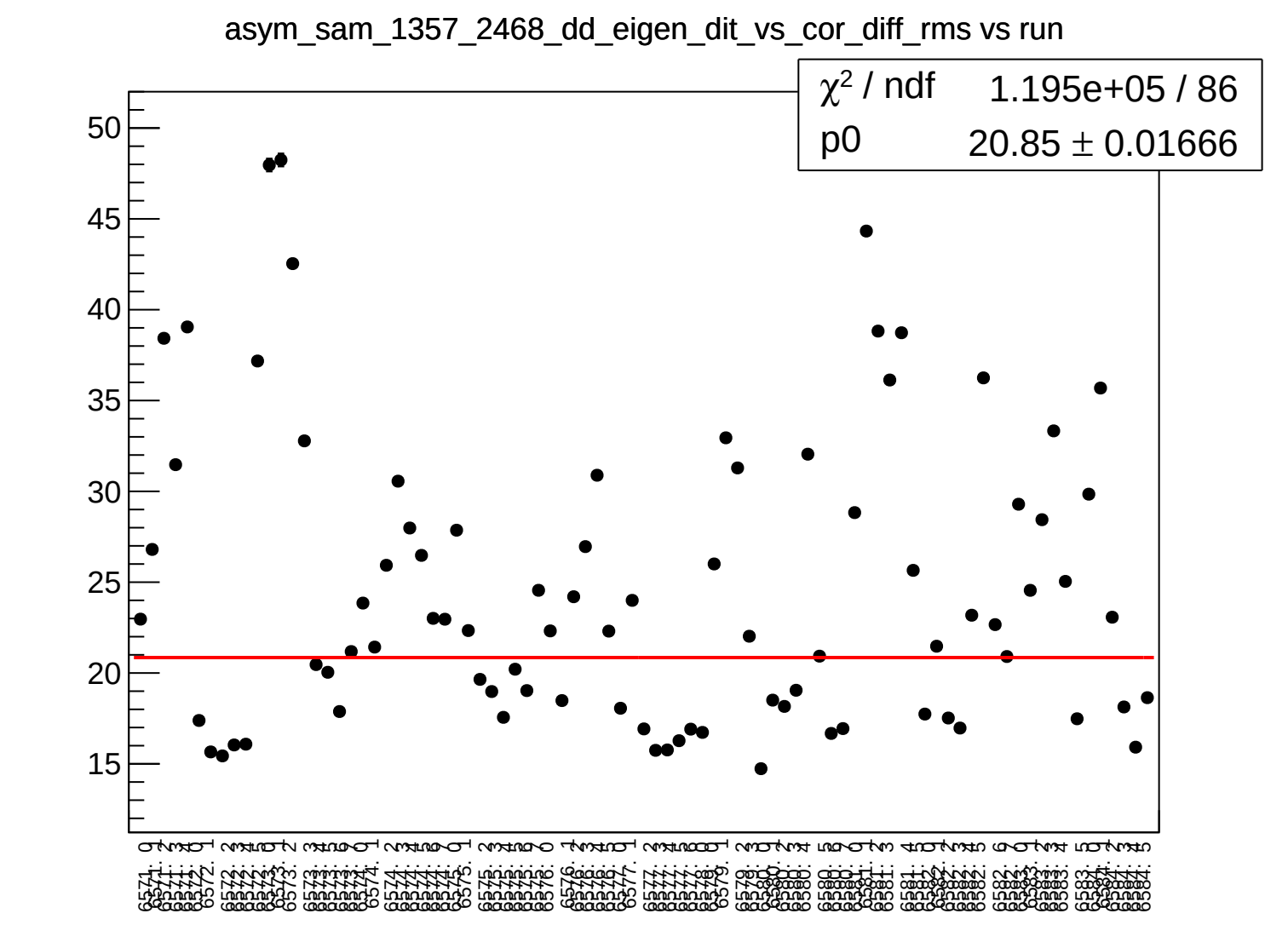

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.195e+05 / 86
p0 20.85 ± 0.01665
50
45
40
35
30
25
20
15

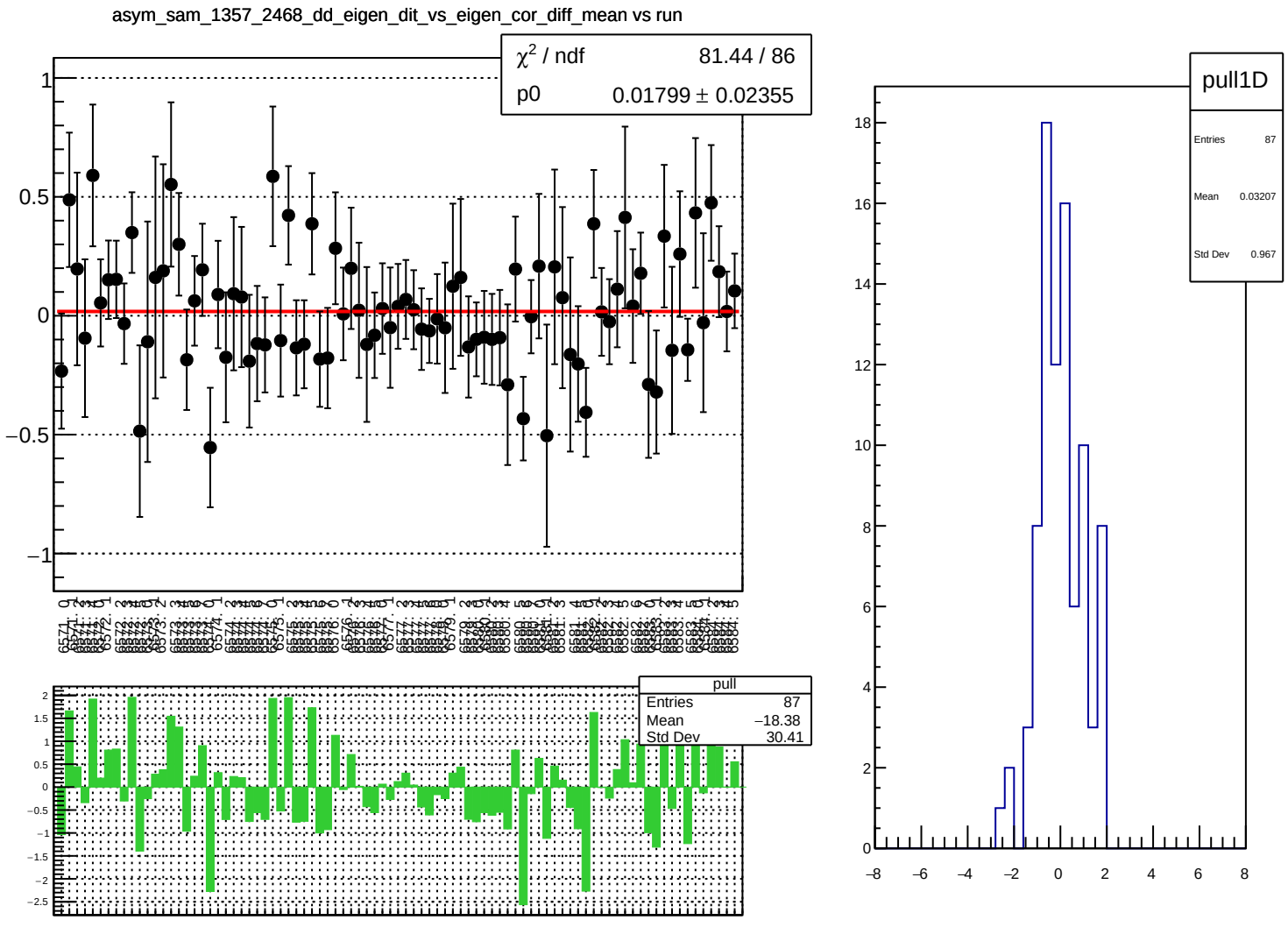

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.7 / 86
p0 −3.82e−07 ± 1.436e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean 791.6
Std Dev 0
pull1D
Entries 87
Mean 0.0048
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

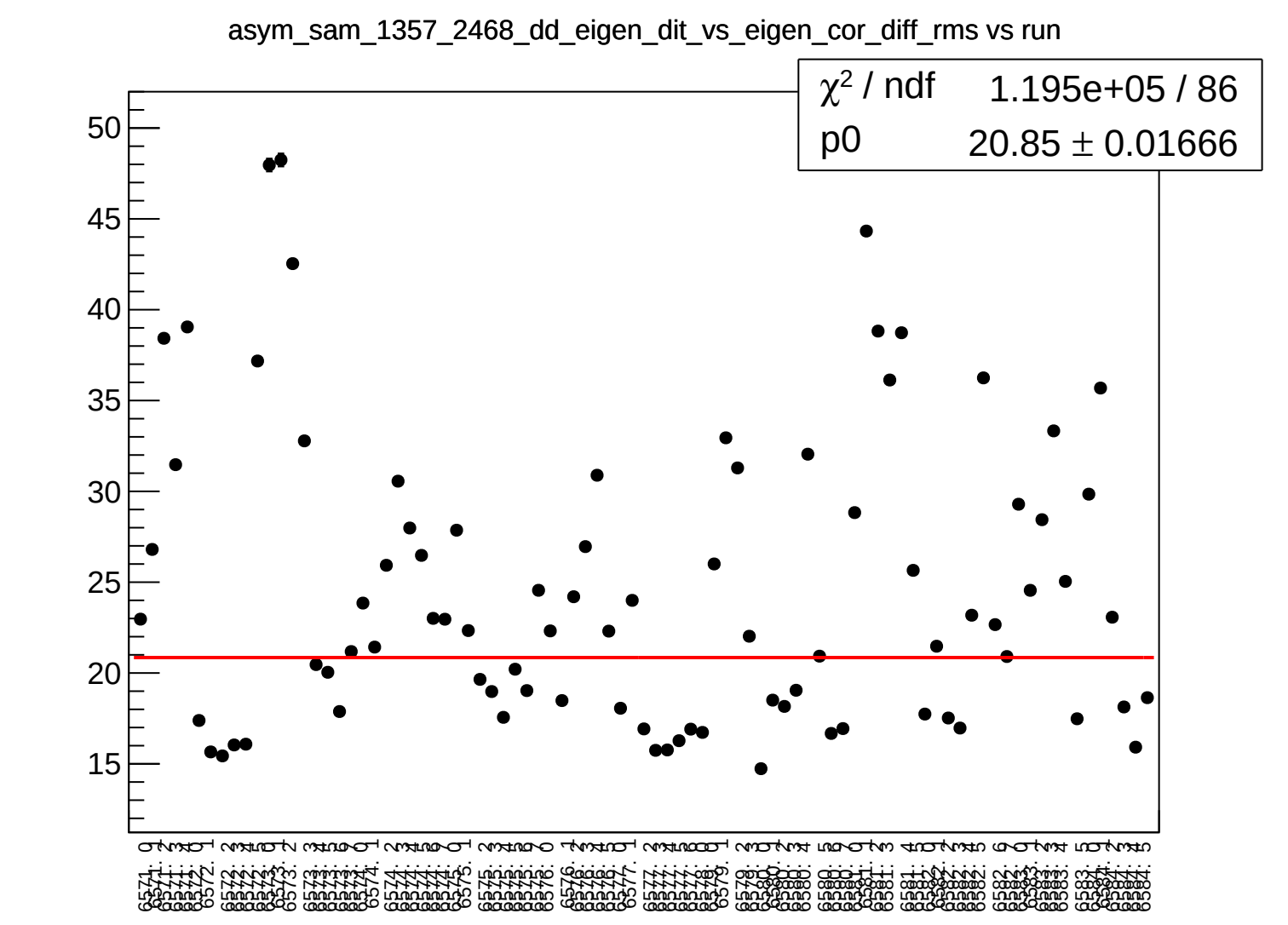

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.011e+04 / 86
p0 0.001315 ± 1.015e−06
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

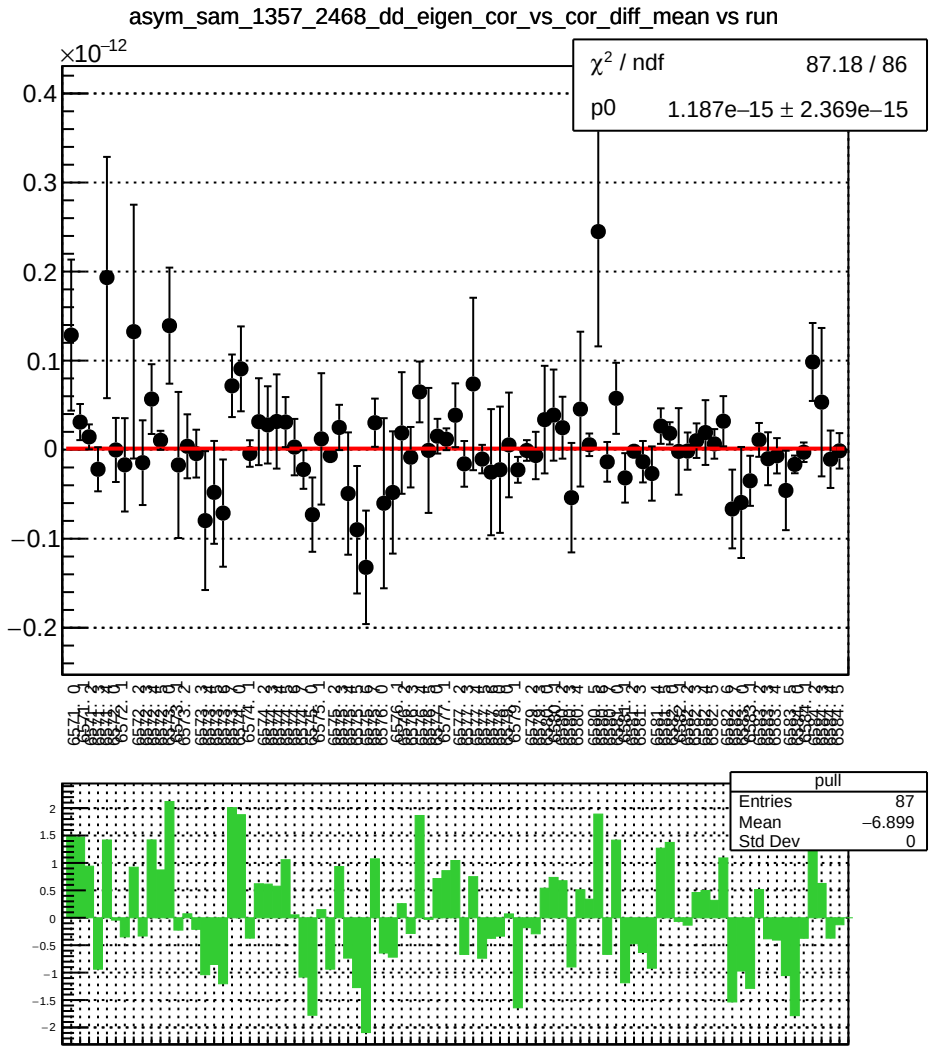

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.44 / 86
p0 0.01799 ± 0.02355
pull
Entries 87
Mean −18.38
Std Dev 30.41

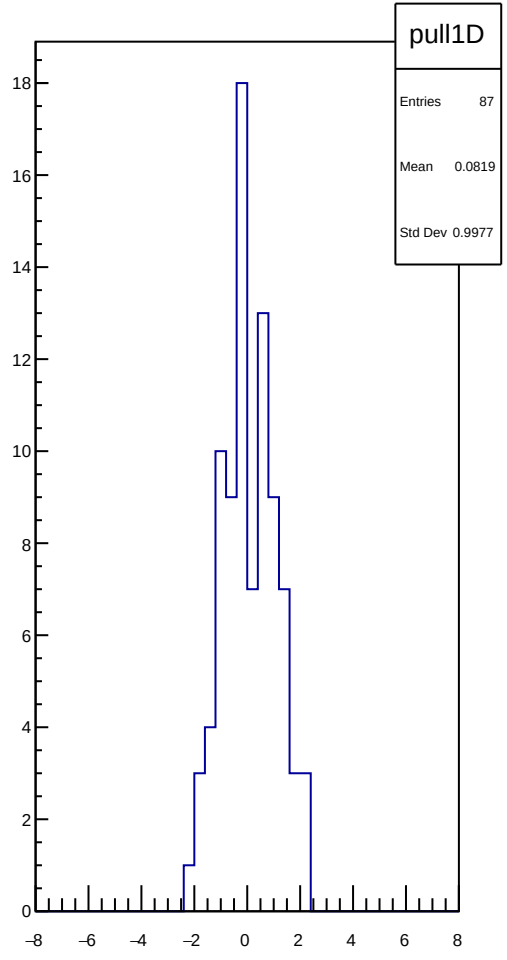

pull1D
Entries 87
Mean 0.03207
Std Dev 0.967

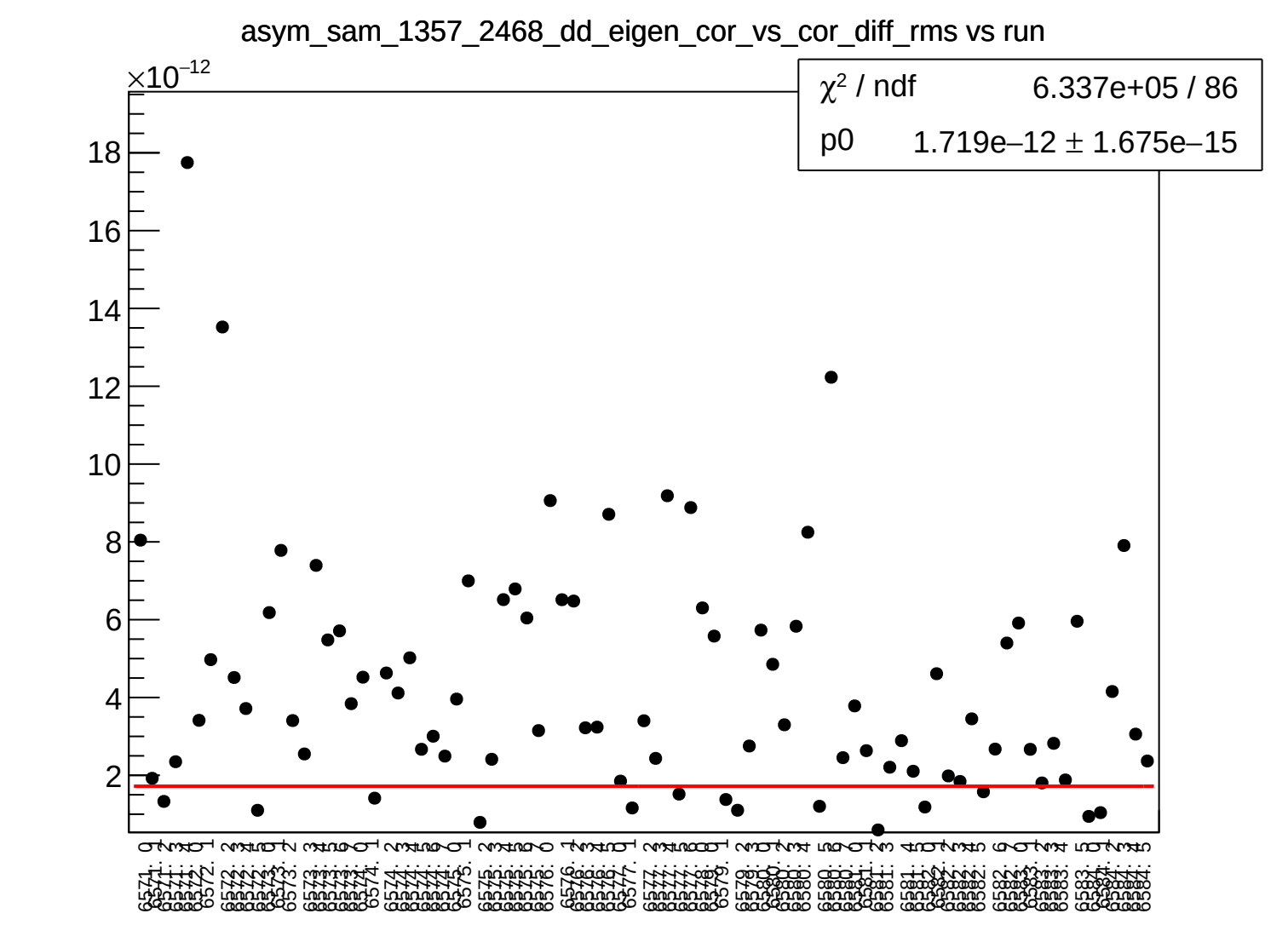

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.195e+05 / 86
p0 20.85 ± 0.01666
50
45
40
35
30
25
20
15

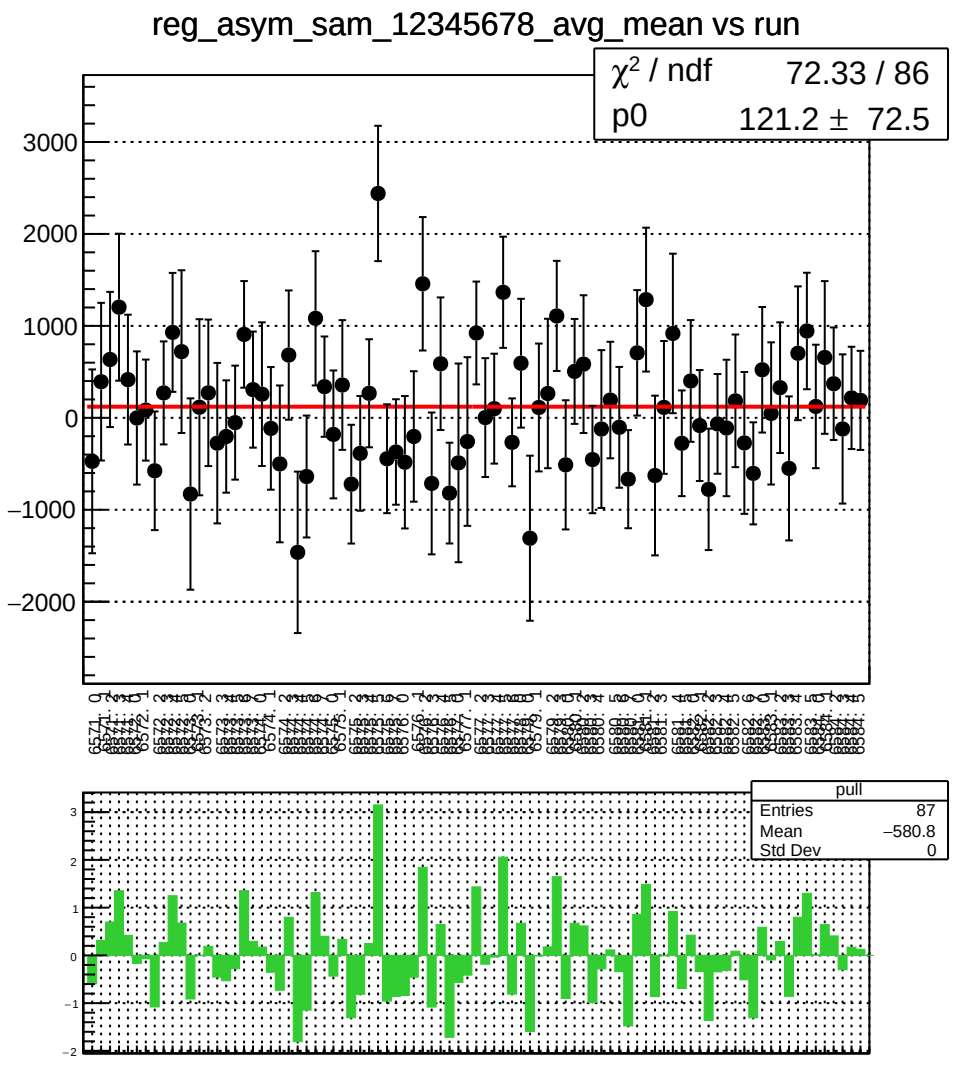

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.44 / 86
p0 0.01799 ± 0.02355
pull
Entries 87
Mean −18.38
Std Dev 30.41
pull1D
Entries 87
Mean 0.03207
Std Dev 0.967

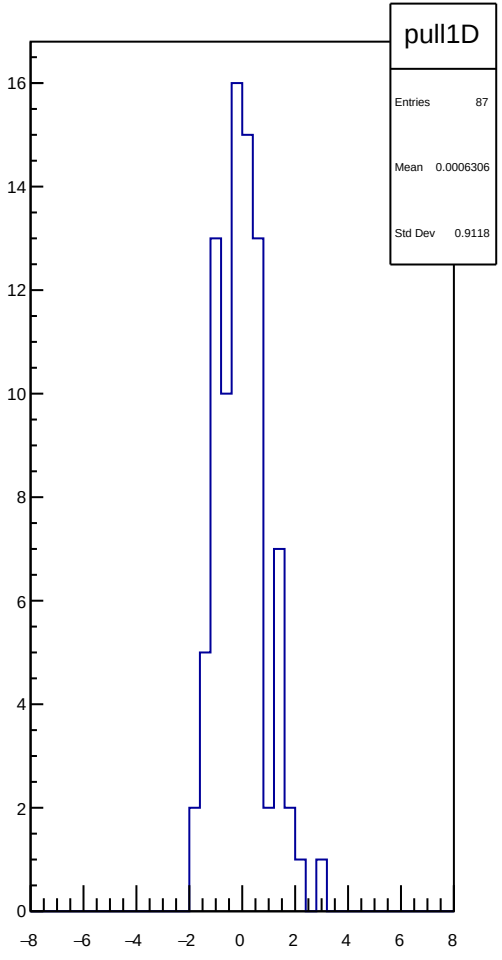

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.195e+05 / 86
p0 20.85 ± 0.01666
50
45
40
35
30
25
20
15

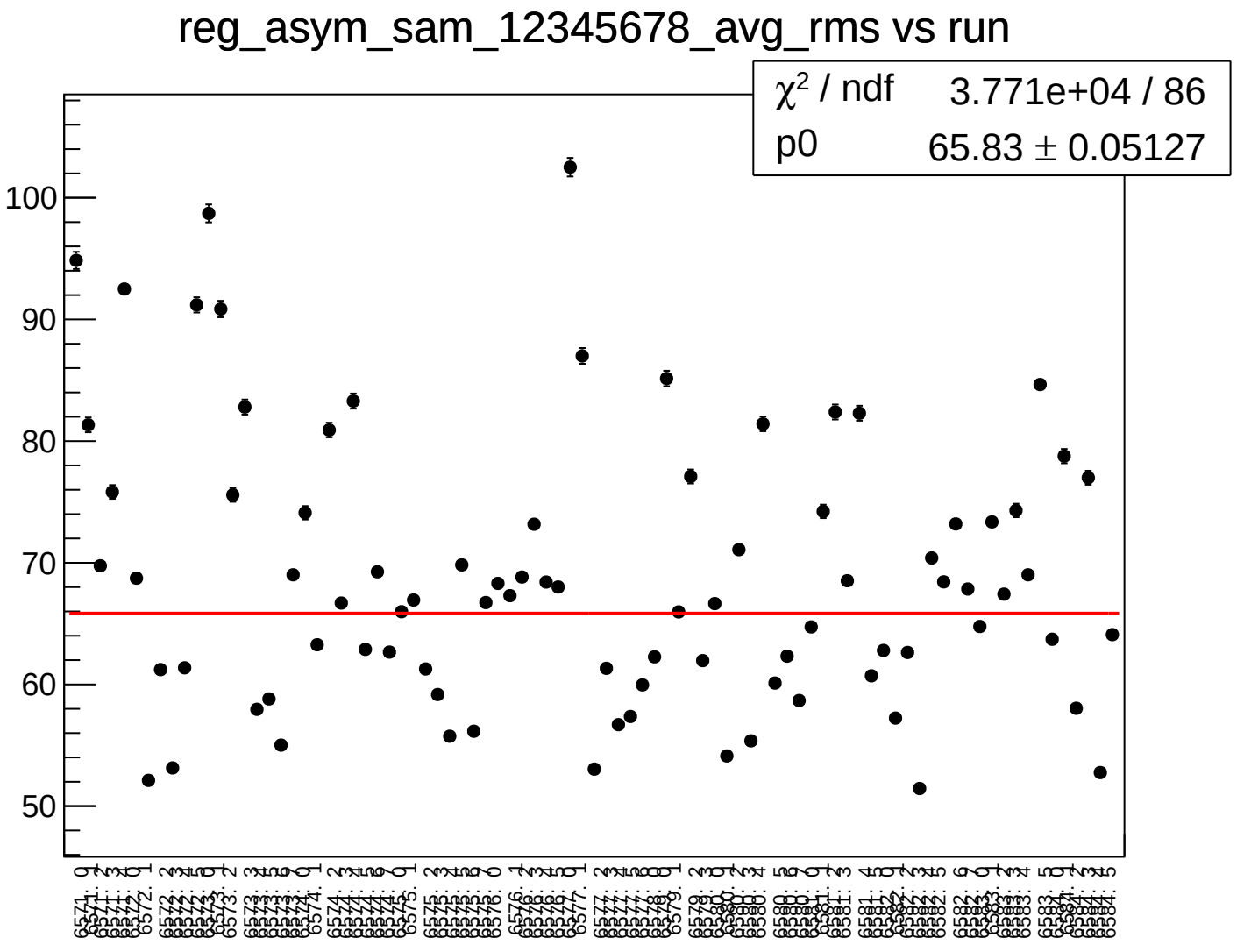

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.18 / 86
p0 1.187e−15 ± 2.369e−15
pull
Entries 87
Mean −6.899
Std Dev 0

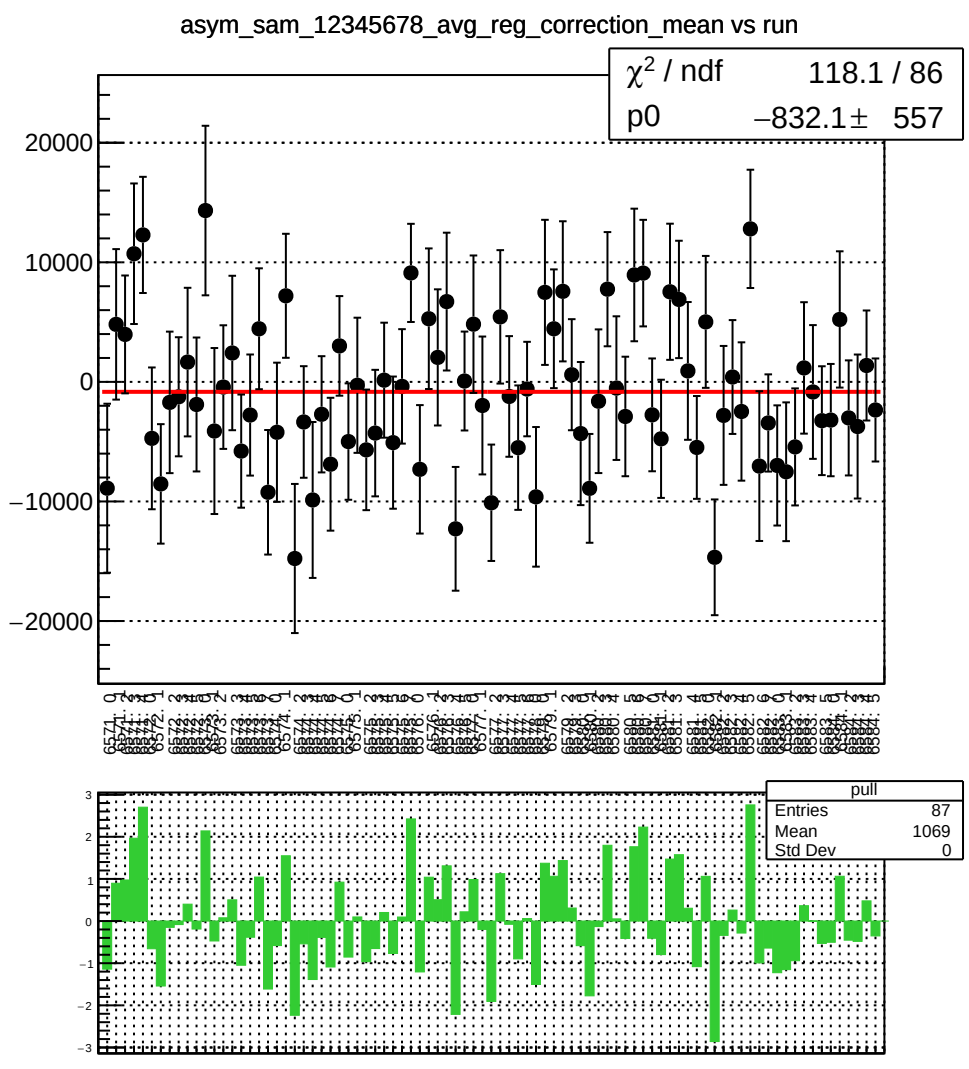

pull1D
Entries 87
Mean 0.0819
Std Dev 0.9977

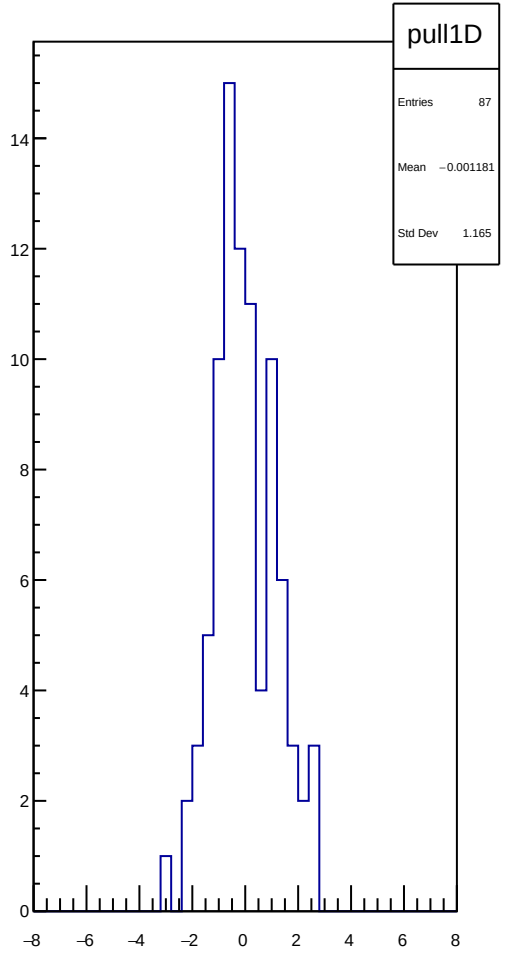

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.337e+05 / 86
p0 1.719e−12 ± 1.675e−15
18
16
14
12
10
8
6
4
2

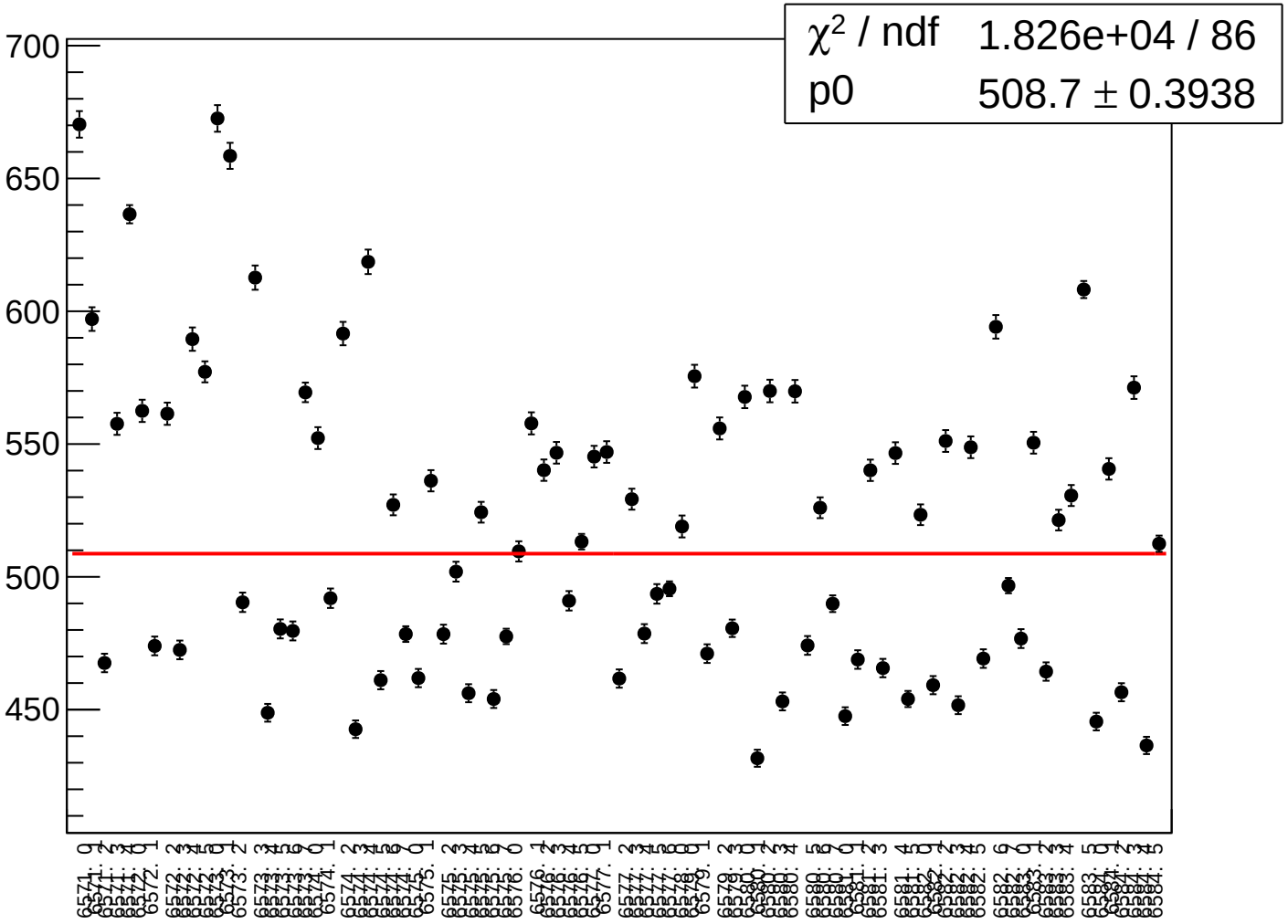

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 72.33 / 86
p0 121.2 ± 72.5
pull
Entries 87
Mean −580.8
Std Dev 0

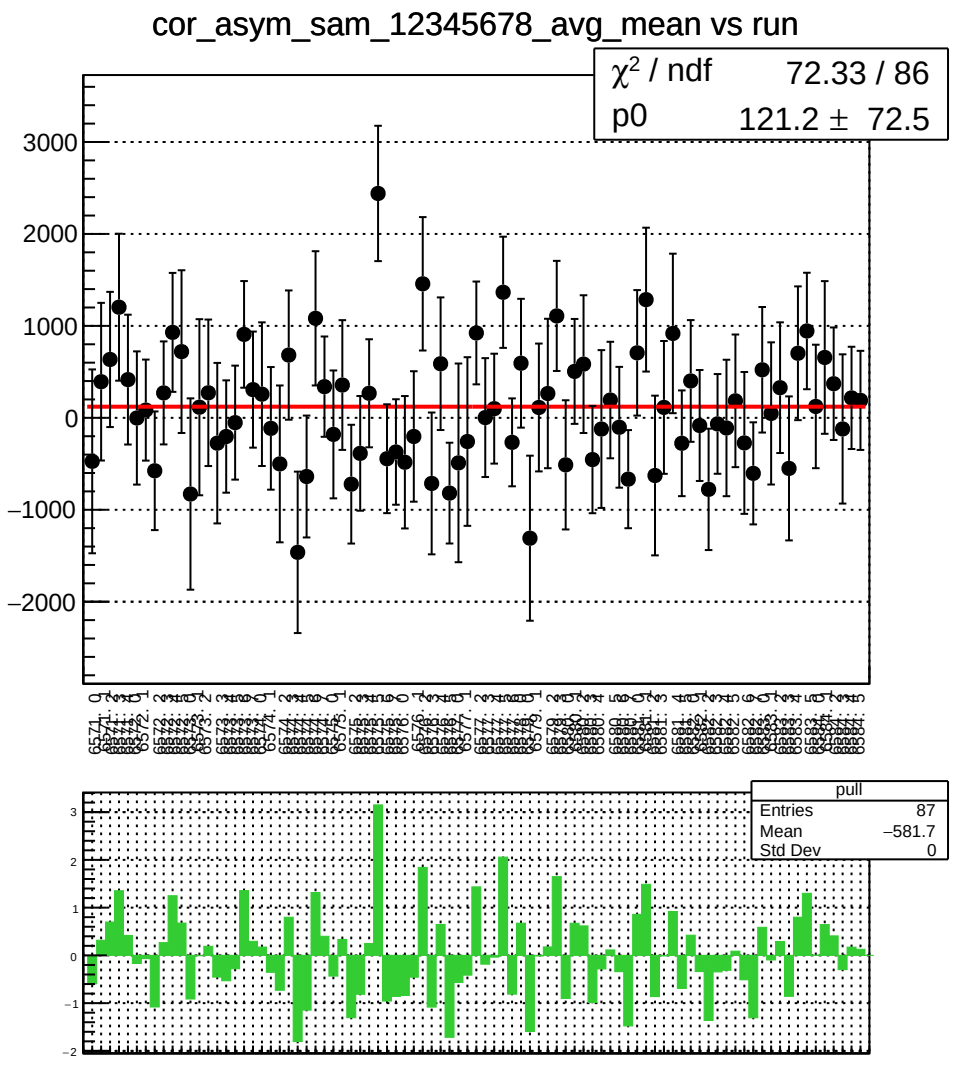

pull1D
Entries 87
Mean 0.0006306
Std Dev 0.9118

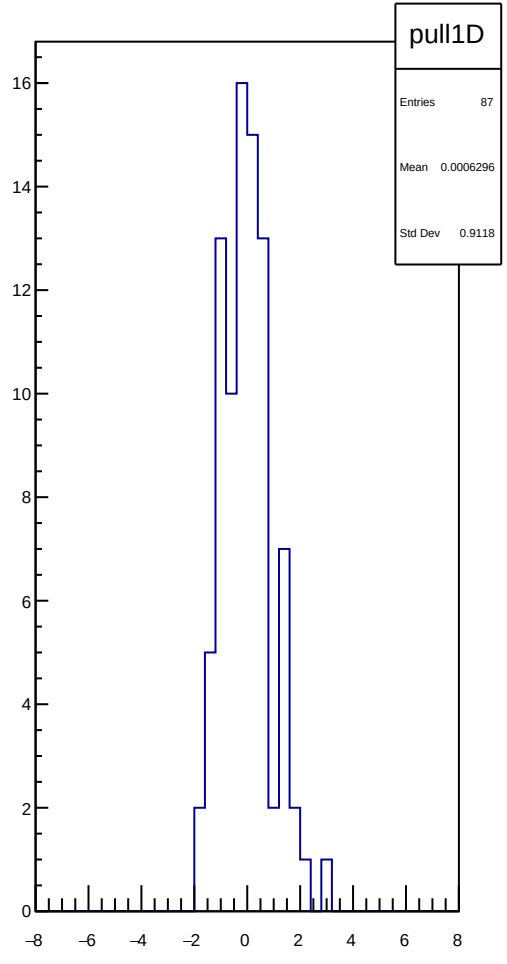

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3.771e+04 / 86
p0 65.83 ± 0.05127
100
90
80
70
60
50

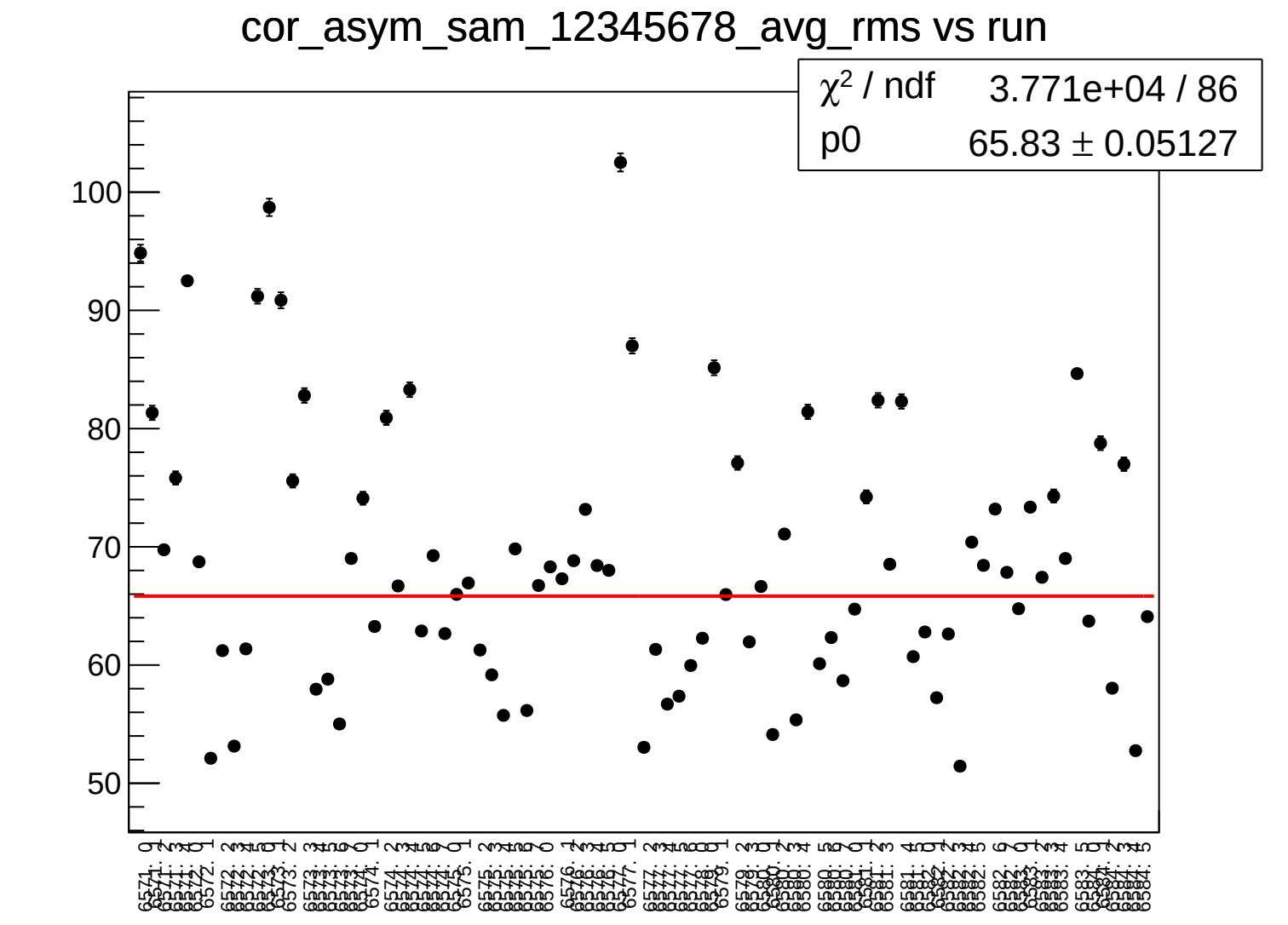

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 118.1 / 86
p0 −832.1± 557
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 1069
Std Dev 0
3
2
1
0
−1
−2
−3

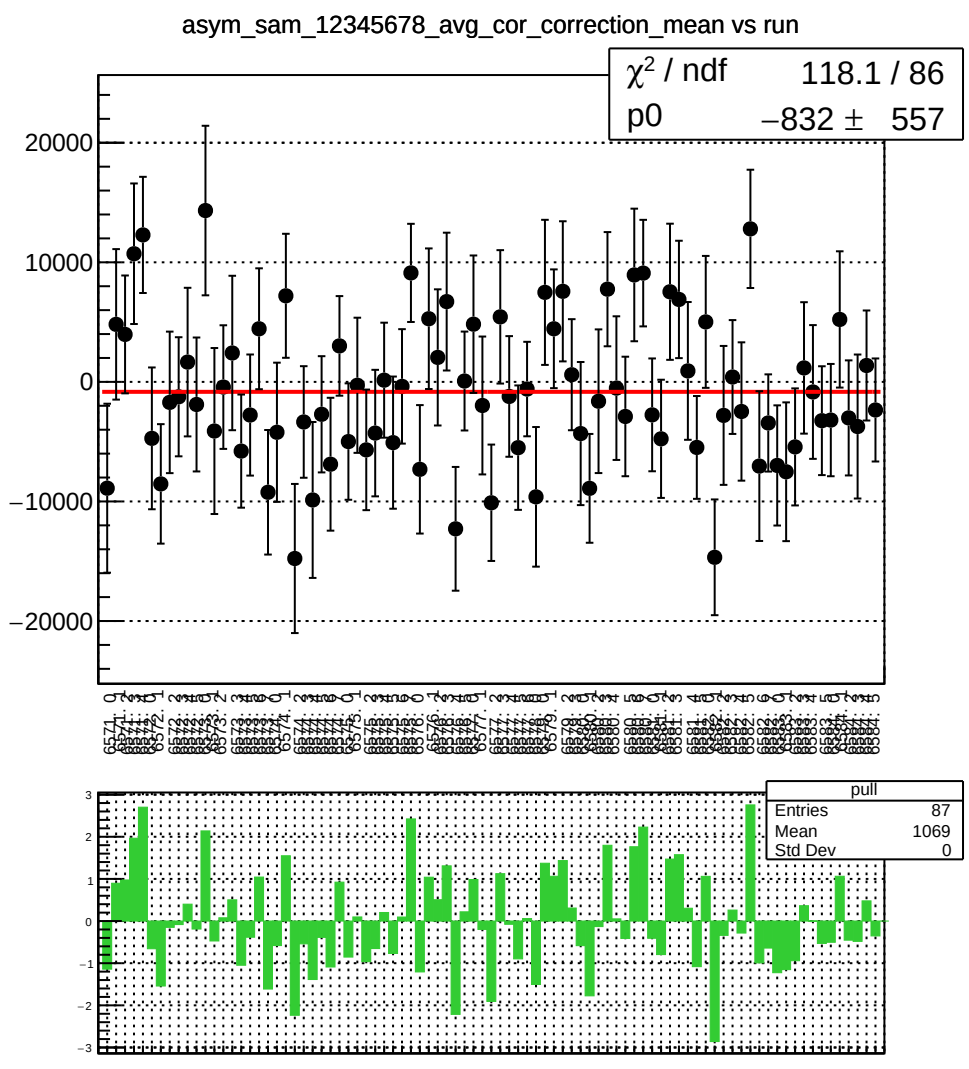

pull1D
Entries 87
Mean −0.001181
Std Dev 1.165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

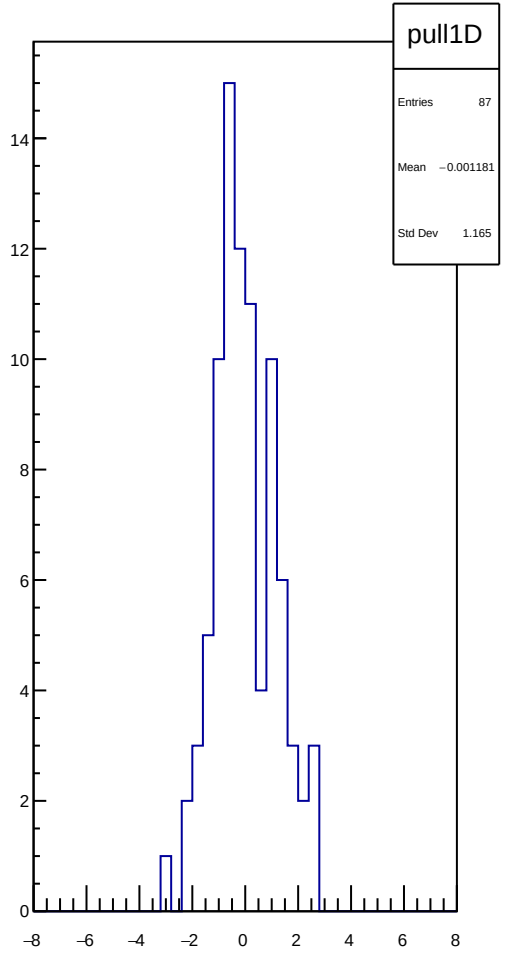

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.826e+04 / 86
p0 508.7 ± 0.3938
700
650
600
550
500
450

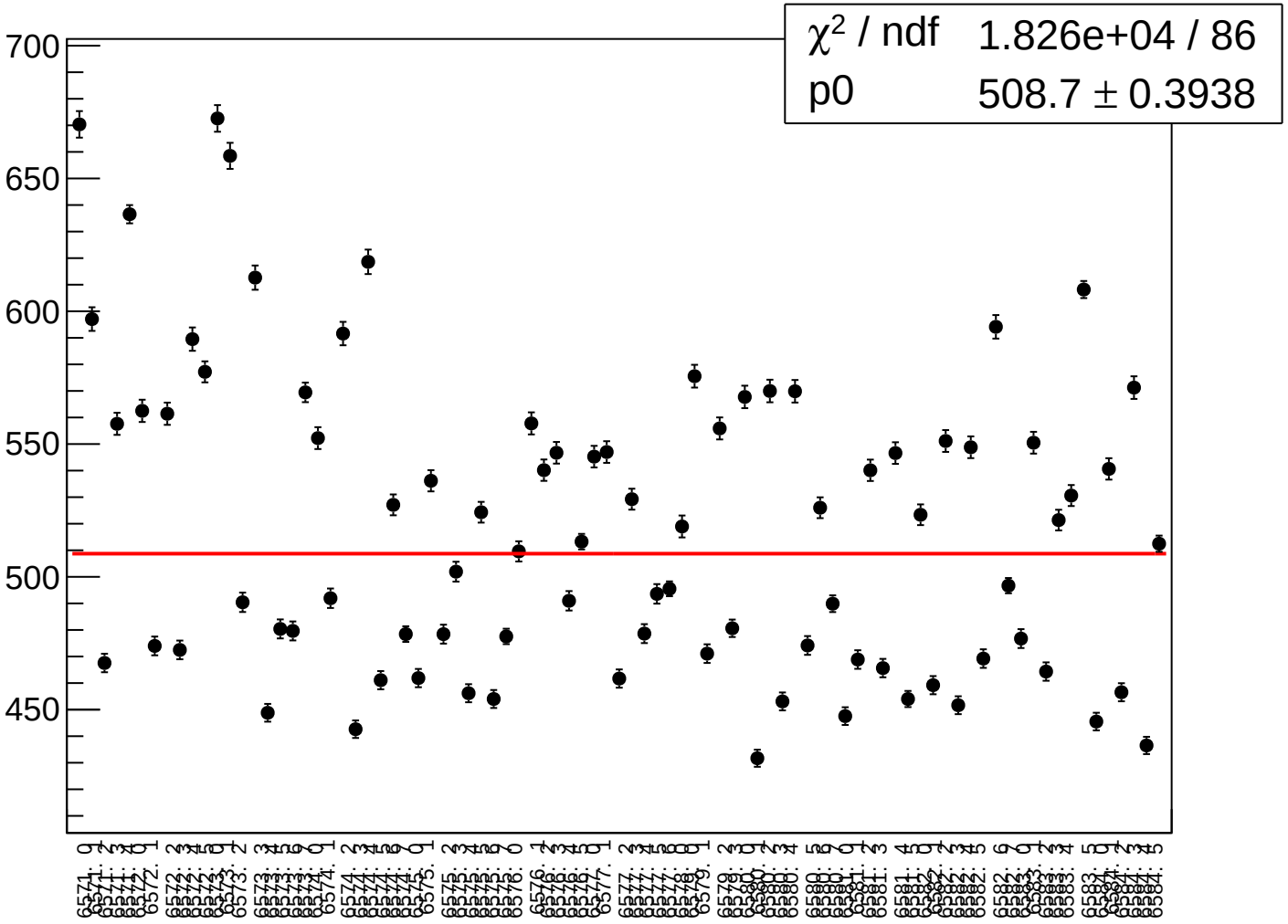

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 72.33 / 86
p0 121.2 ± 72.5
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −581.7
Std Dev 0
3
2
1
0
−1
−2

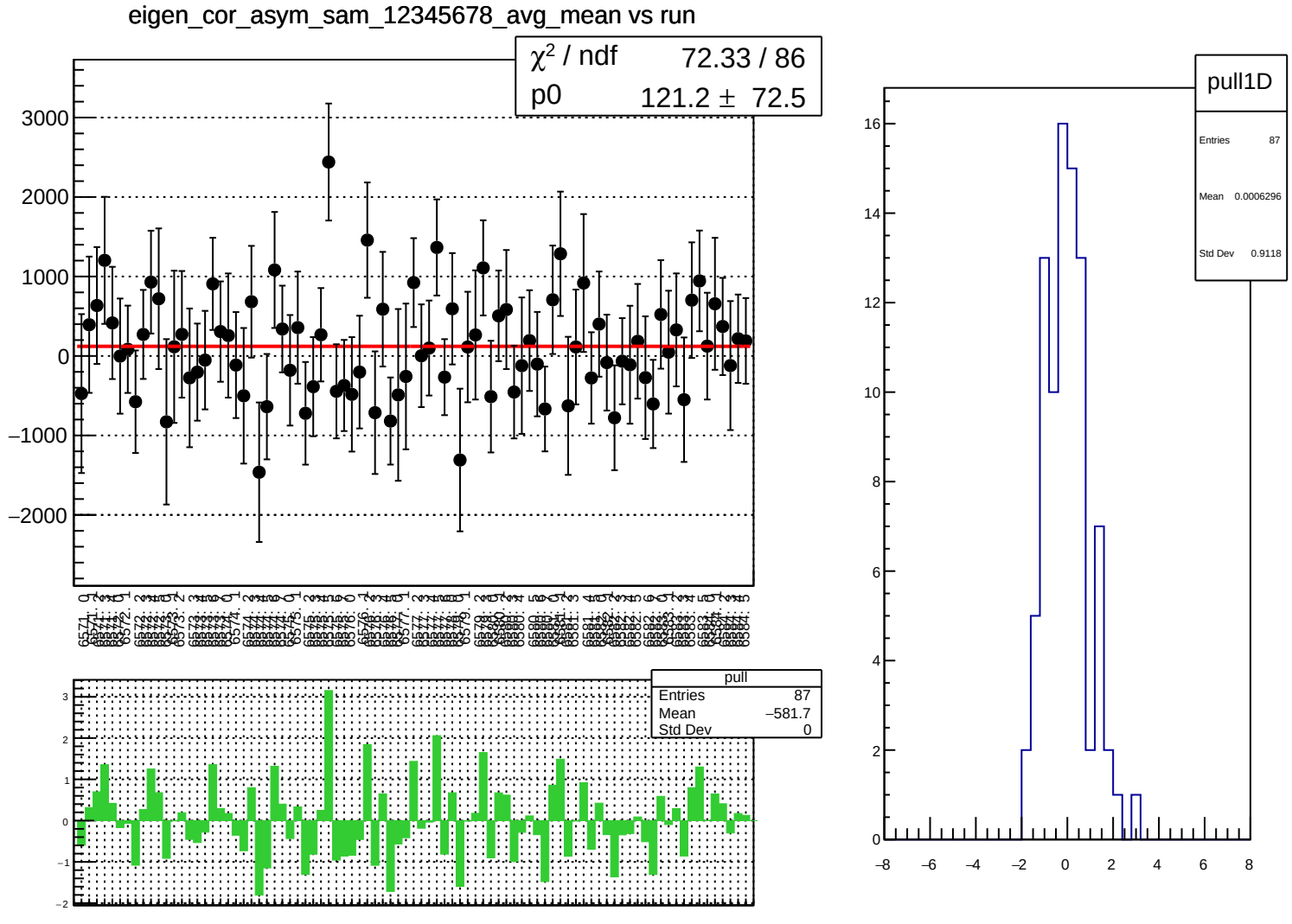

pull1D
Entries 87
Mean 0.0006296
Std Dev 0.9118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

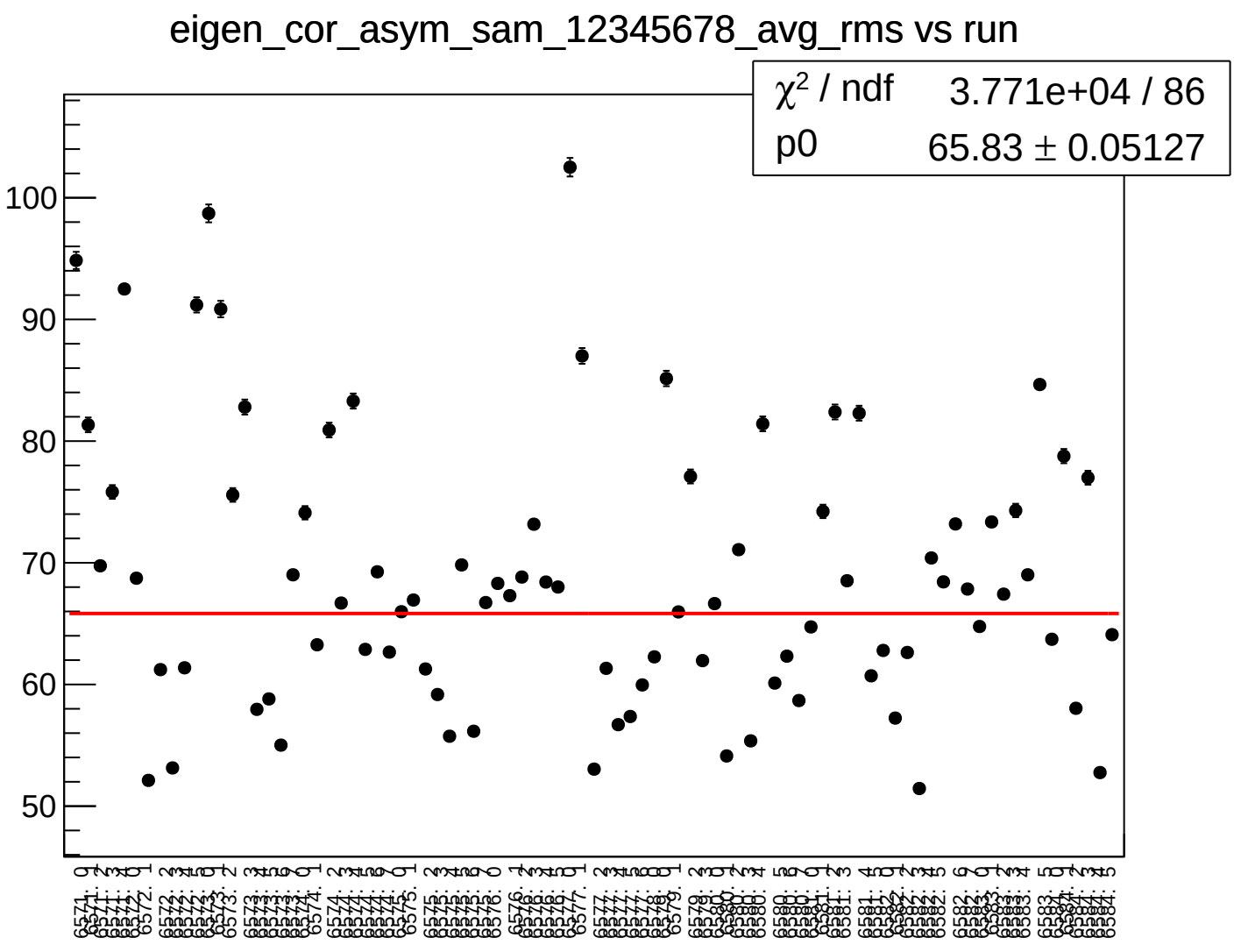

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.771e+04 / 86
p0 65.83 ± 0.05127
100
90
80
70
60
50

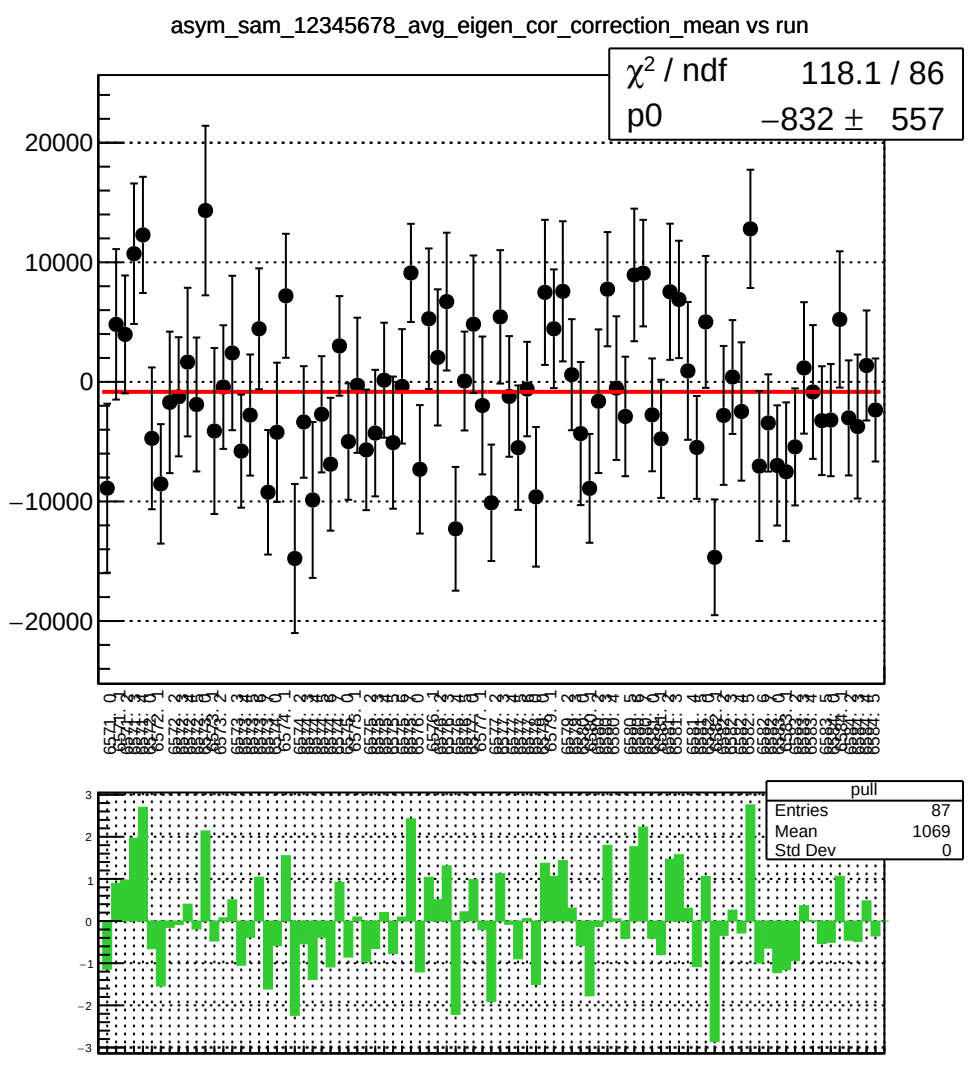

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 118.1 / 86
p0 −832 ± 557
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 1069
Std Dev 0
3
2
1
0
−1
−2
−3

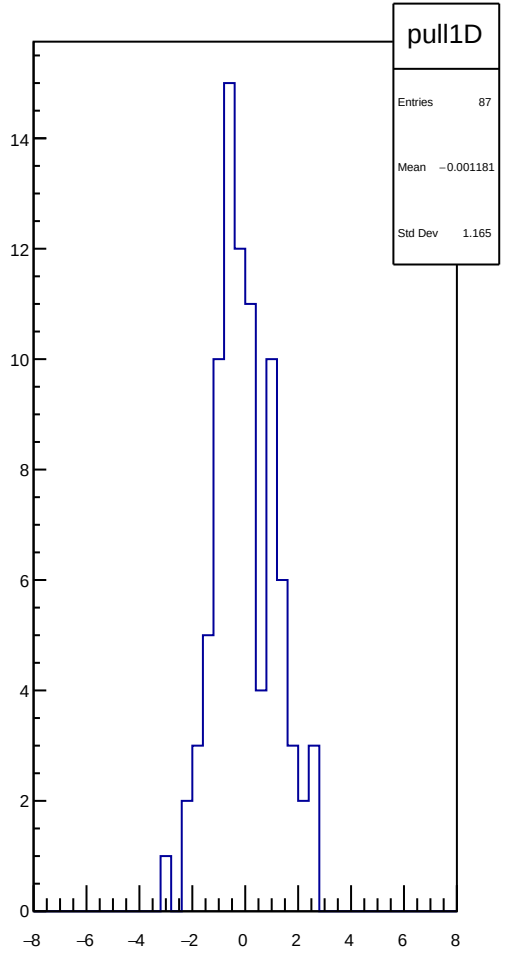

pull1D
Entries 87
Mean −0.001181
Std Dev 1.165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

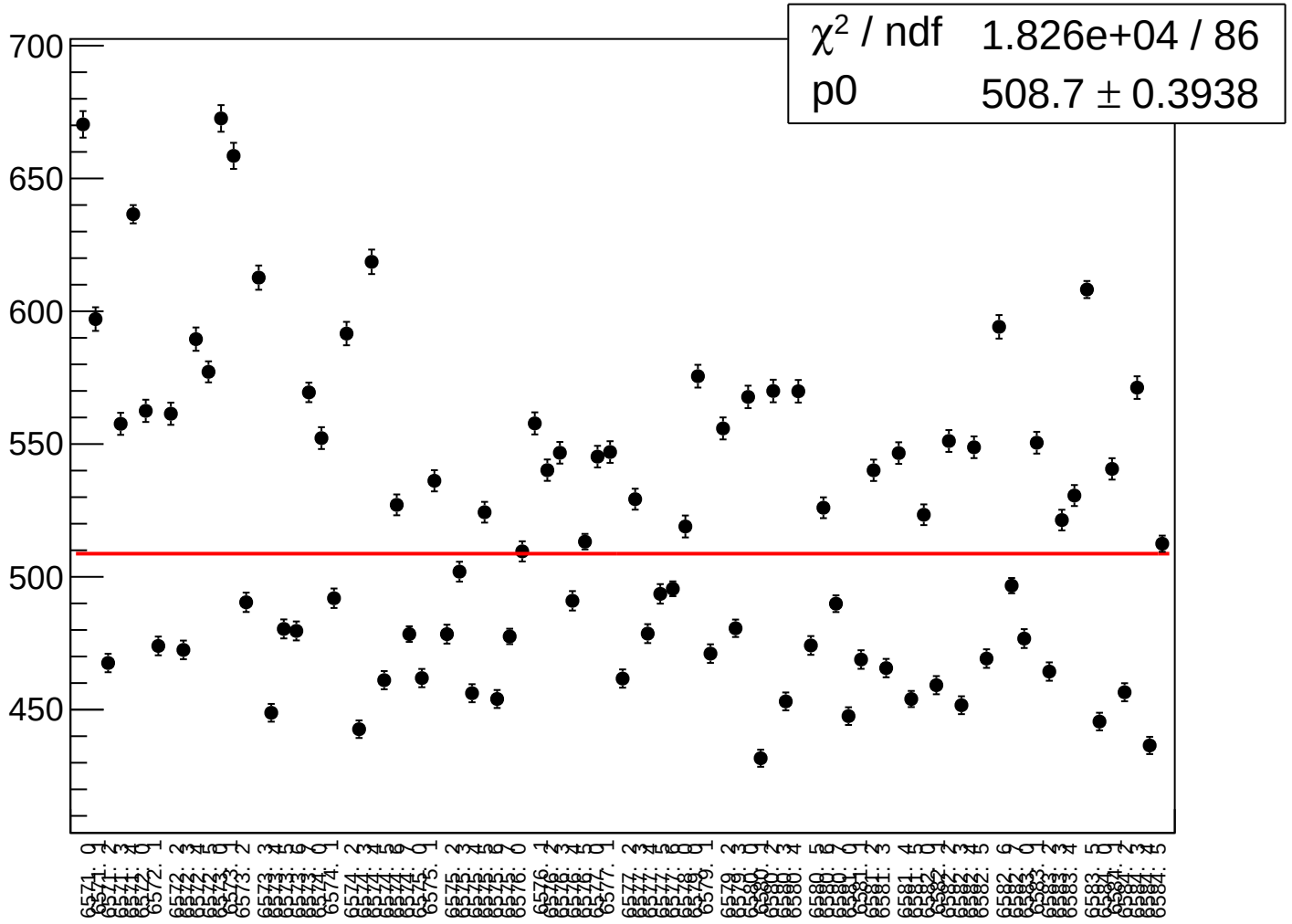

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.826e+04 / 86
p0 508.7 ± 0.3938
700
650
600
550
500
450

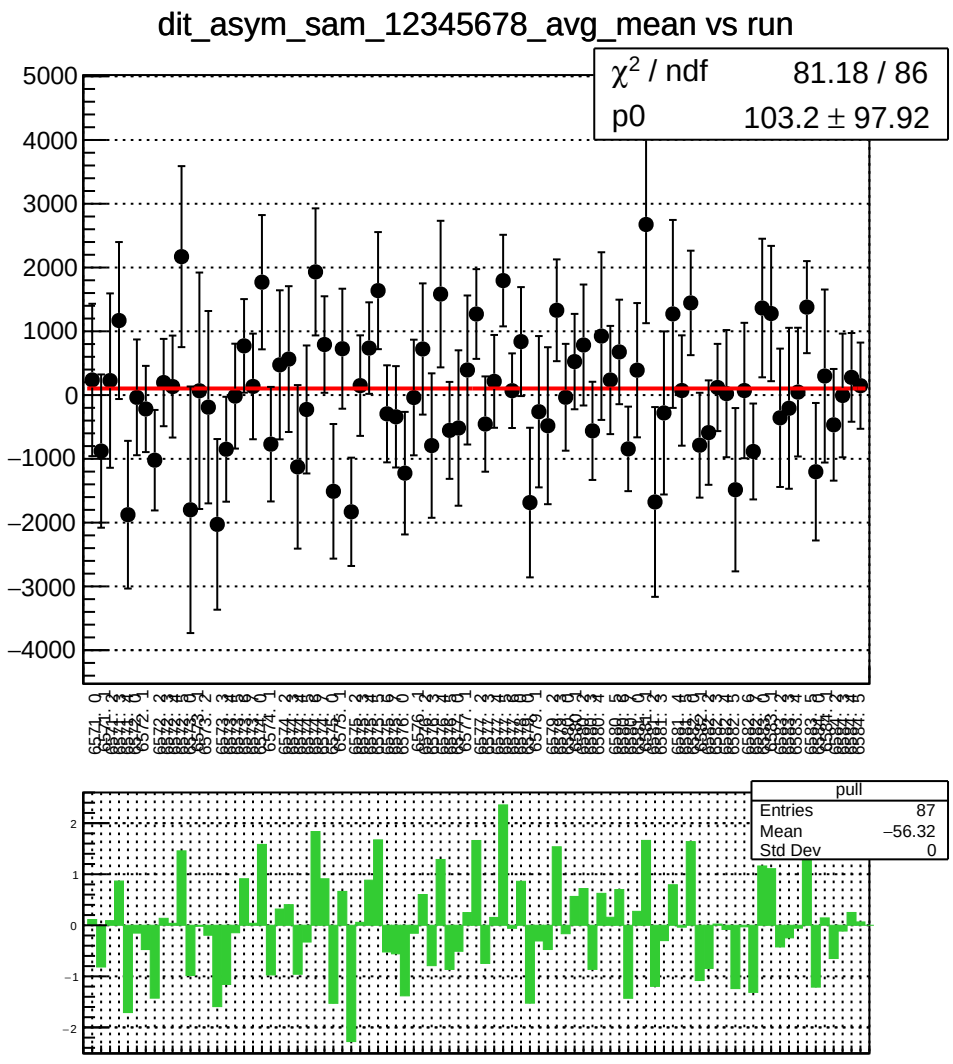

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 72.33 / 86
p0 121.2 ± 72.5
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −581.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.0006296
Std Dev 0.9118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

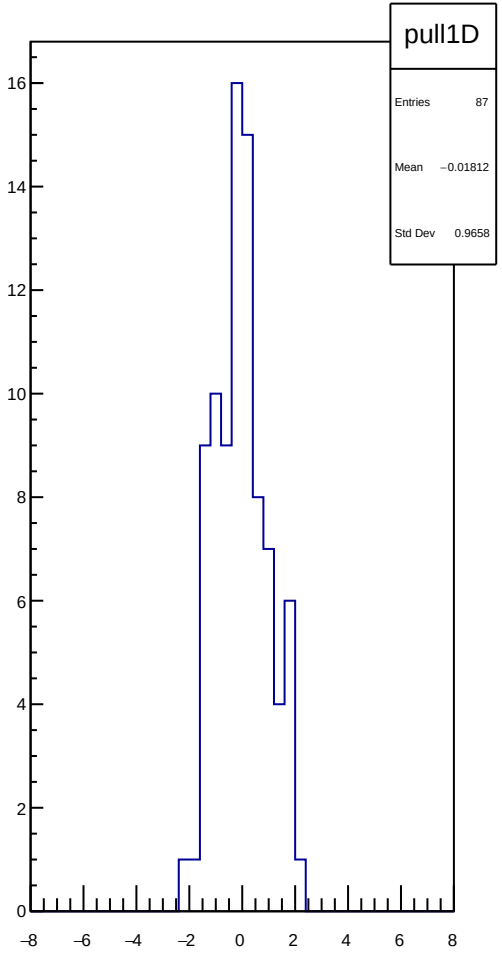

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.771e+04 / 86
p0 65.83 ± 0.05127
100
90
80
70
60
50

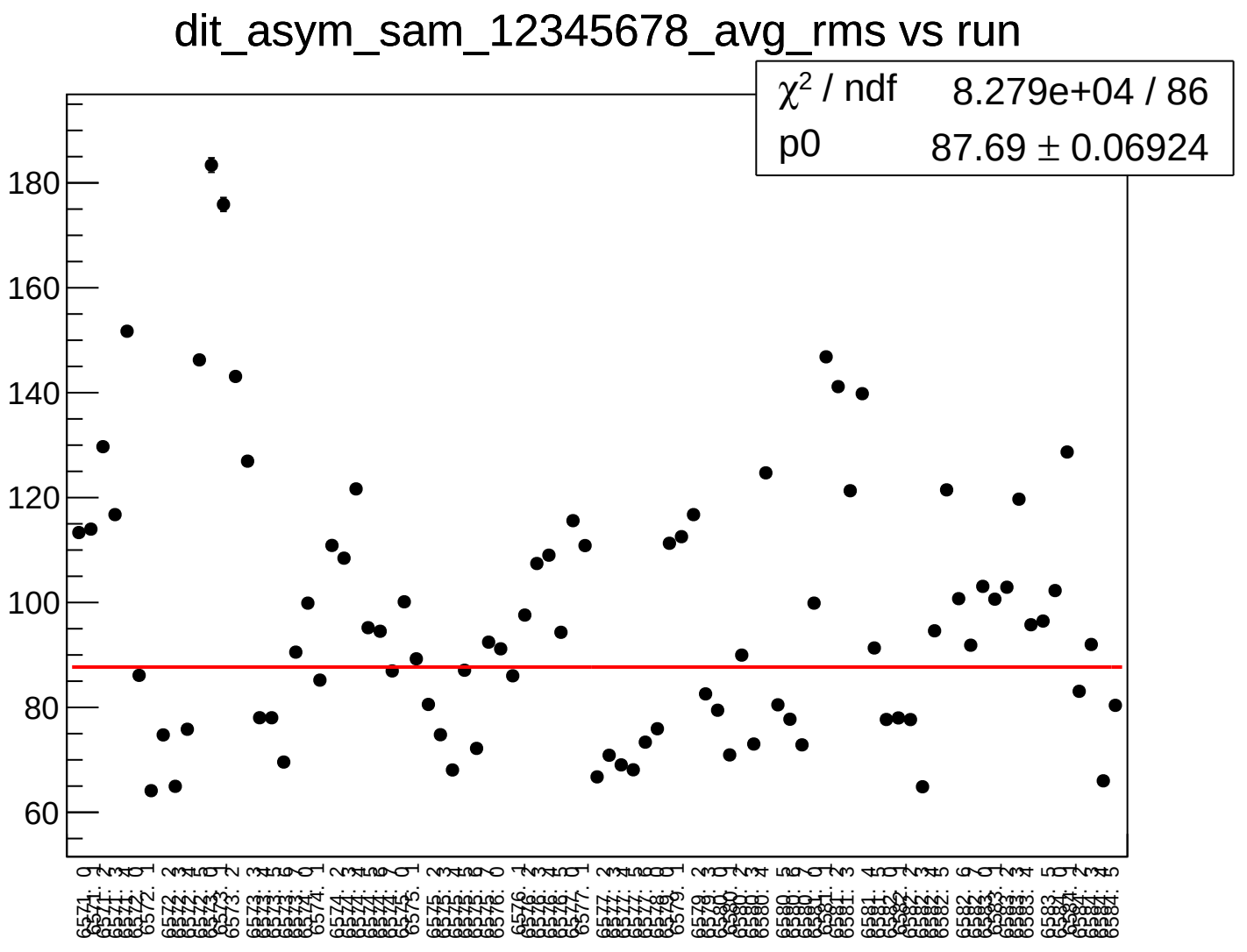

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 118.1 / 86
p0 −832 ± 557
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 1069
Std Dev 0
3
2
1
0
−1
−2
−3

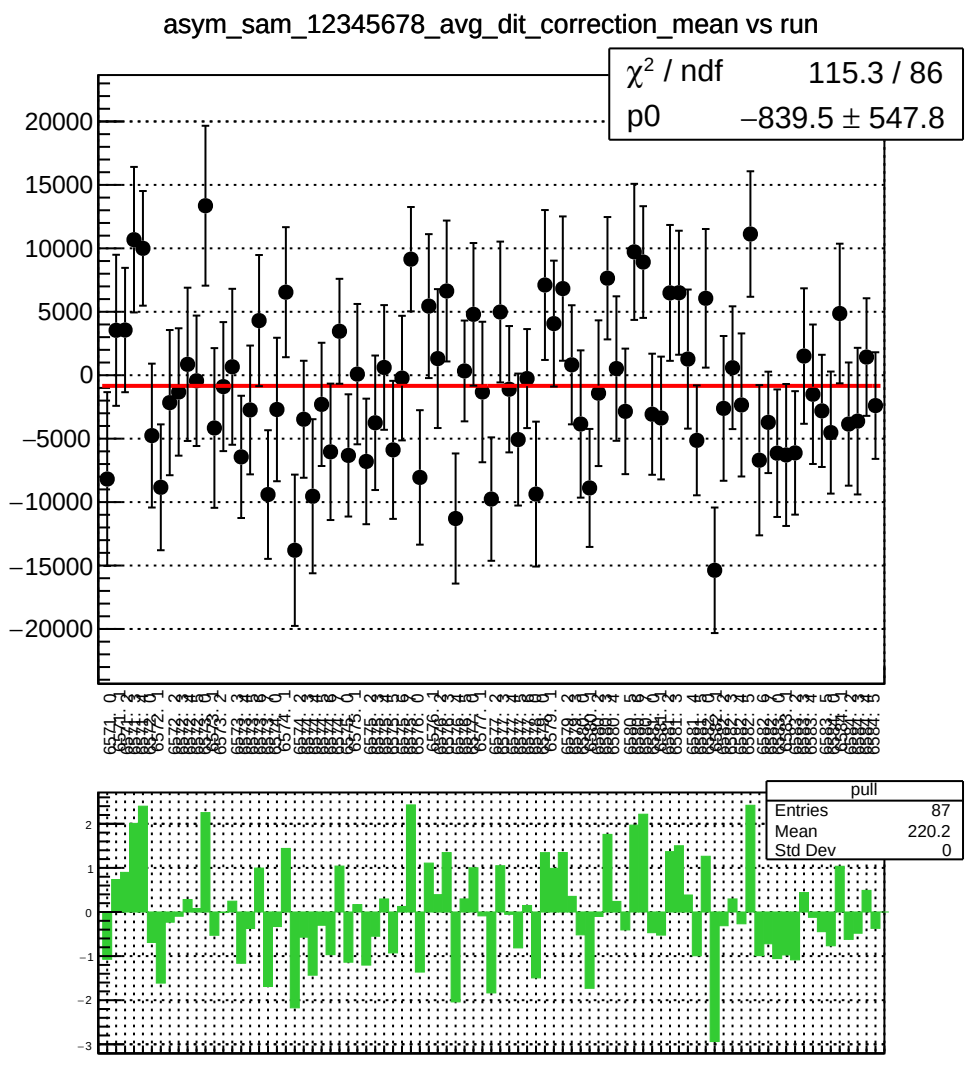

pull1D
Entries 87
Mean −0.001181
Std Dev 1.165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

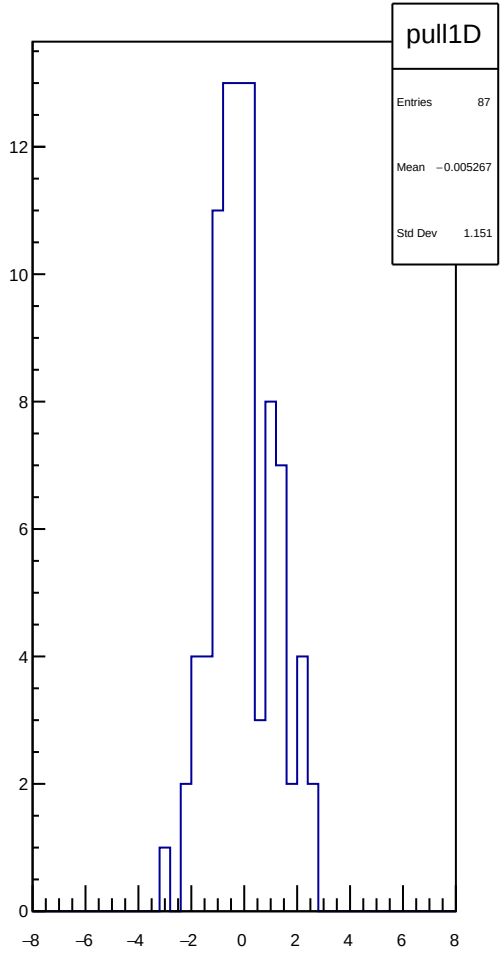

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.826e+04 / 86
p0 508.7 ± 0.3938
700
650
600
550
500
450

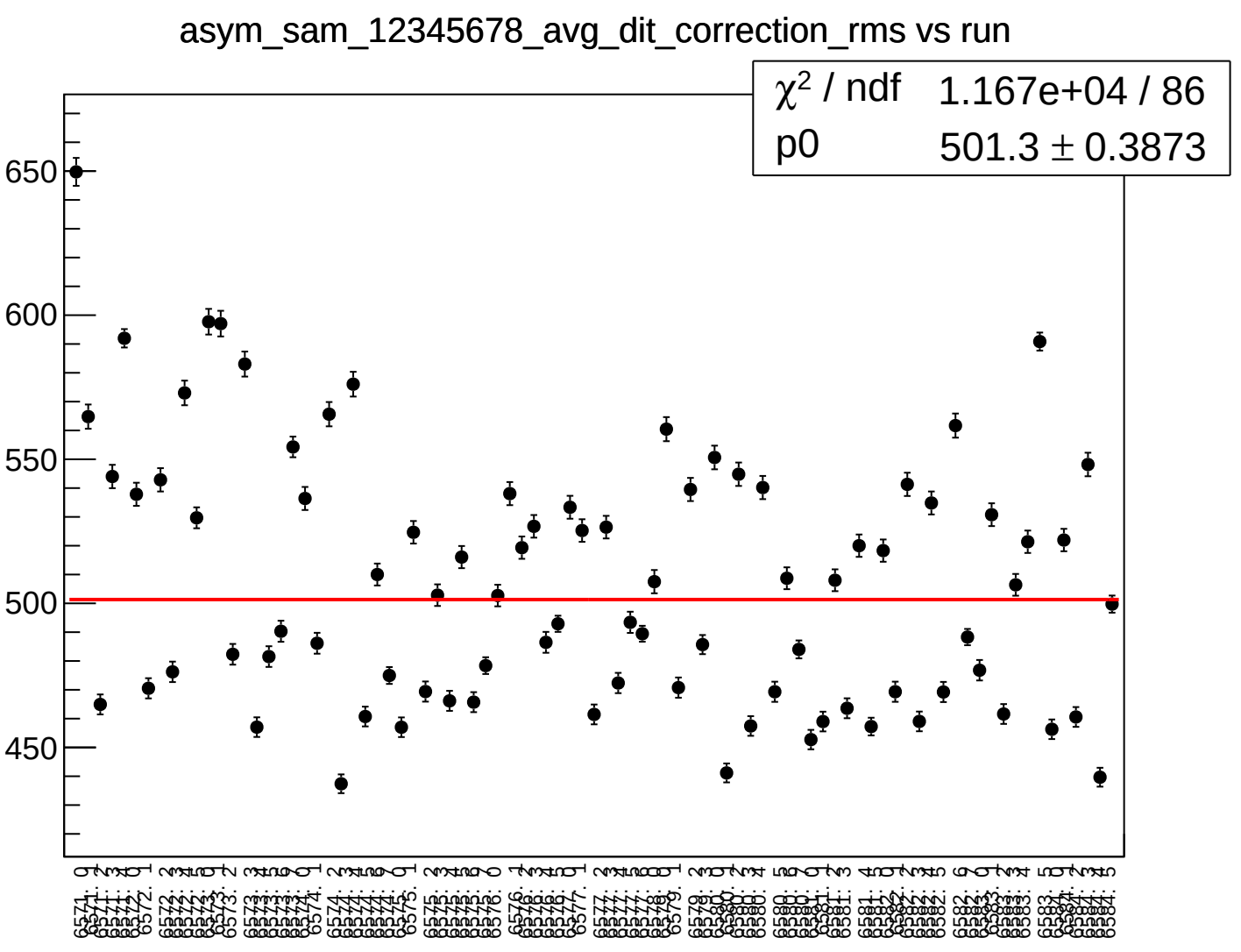

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 81.18 / 86
p0 103.2 ± 97.92
pull
Entries 87
Mean −56.32
Std Dev 0

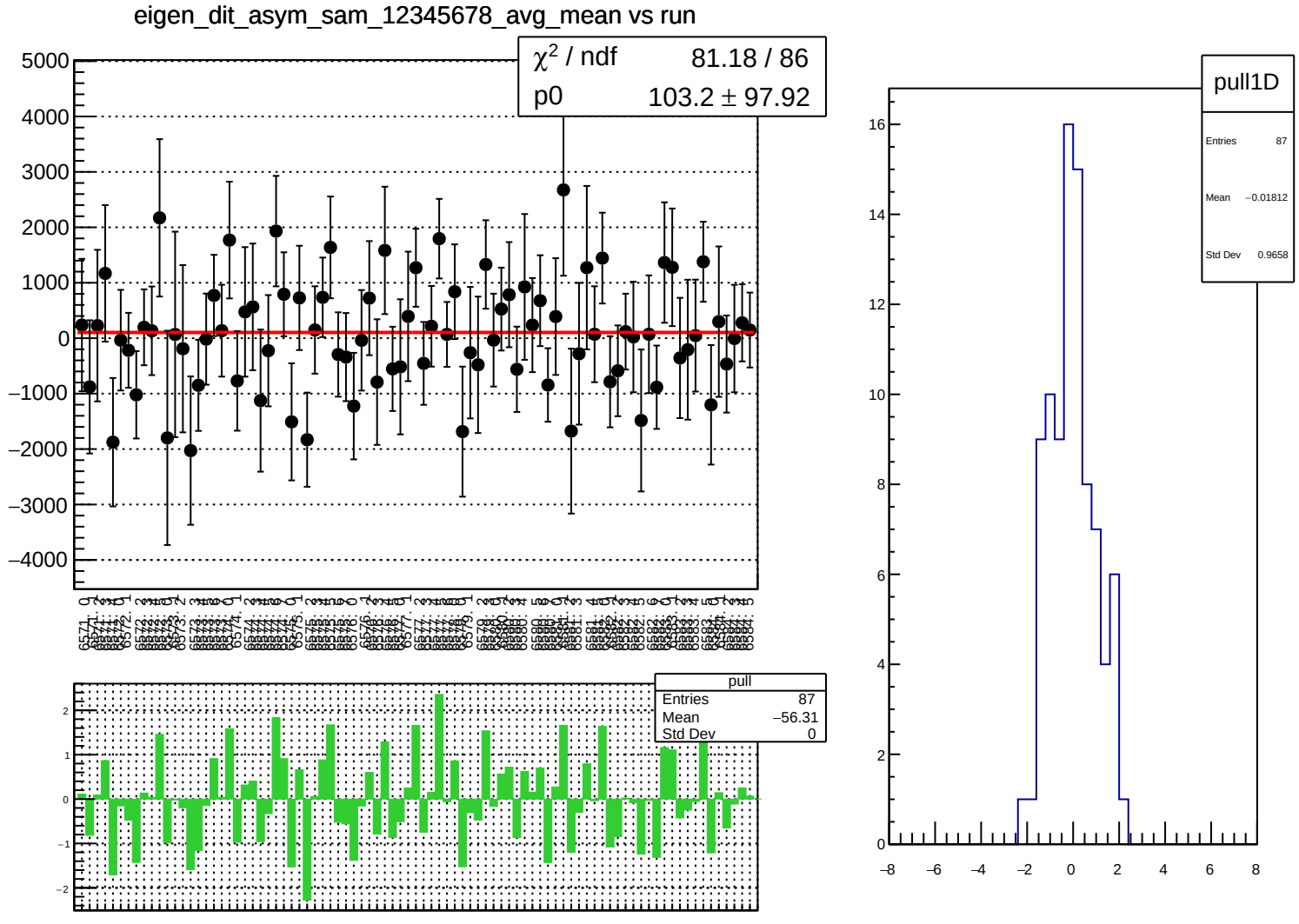

pull1D
Entries 87
Mean −0.01812
Std Dev 0.9658

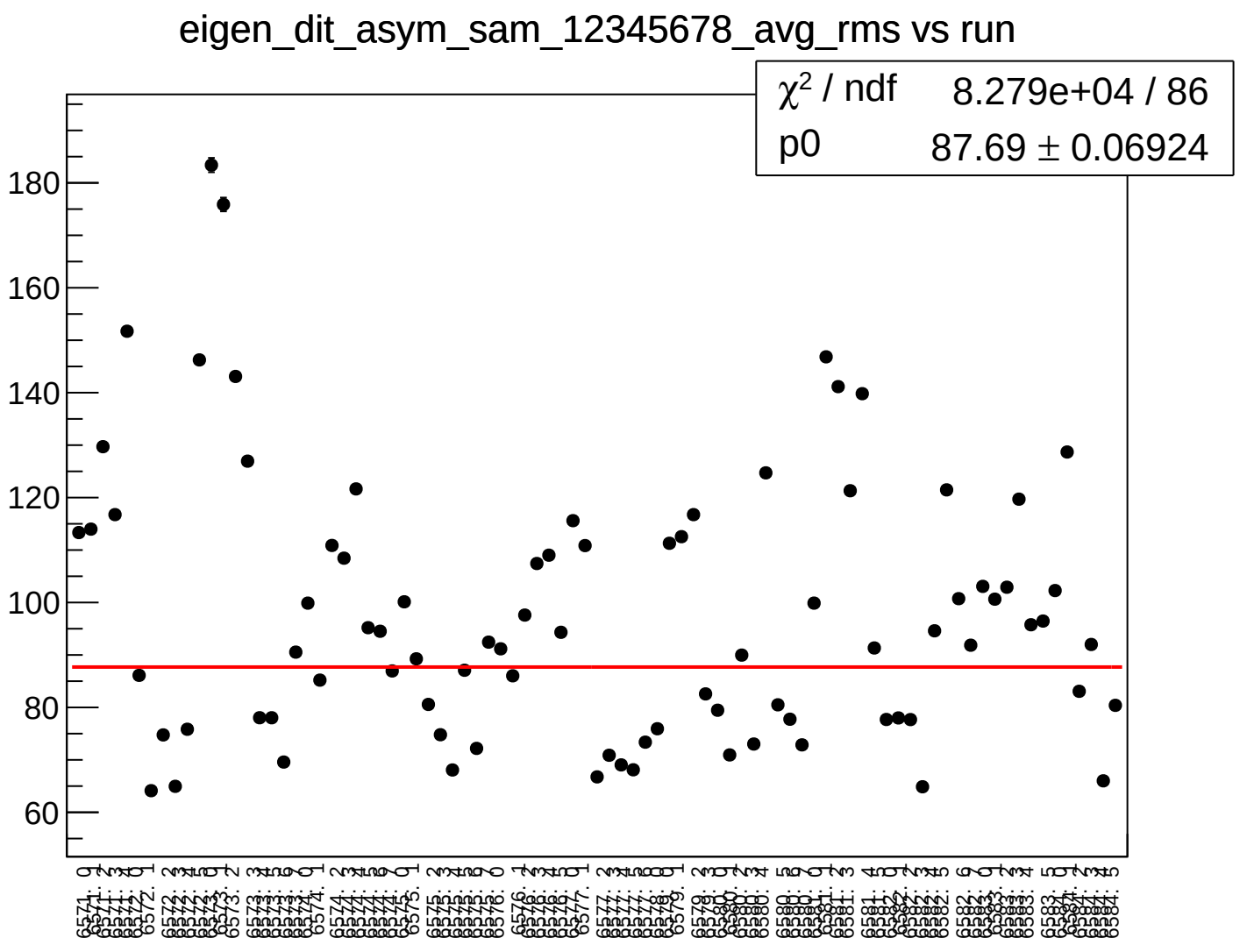

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 8.279e+04 / 86
p0 87.69 ± 0.06924
180
160
140
120
100
80
60

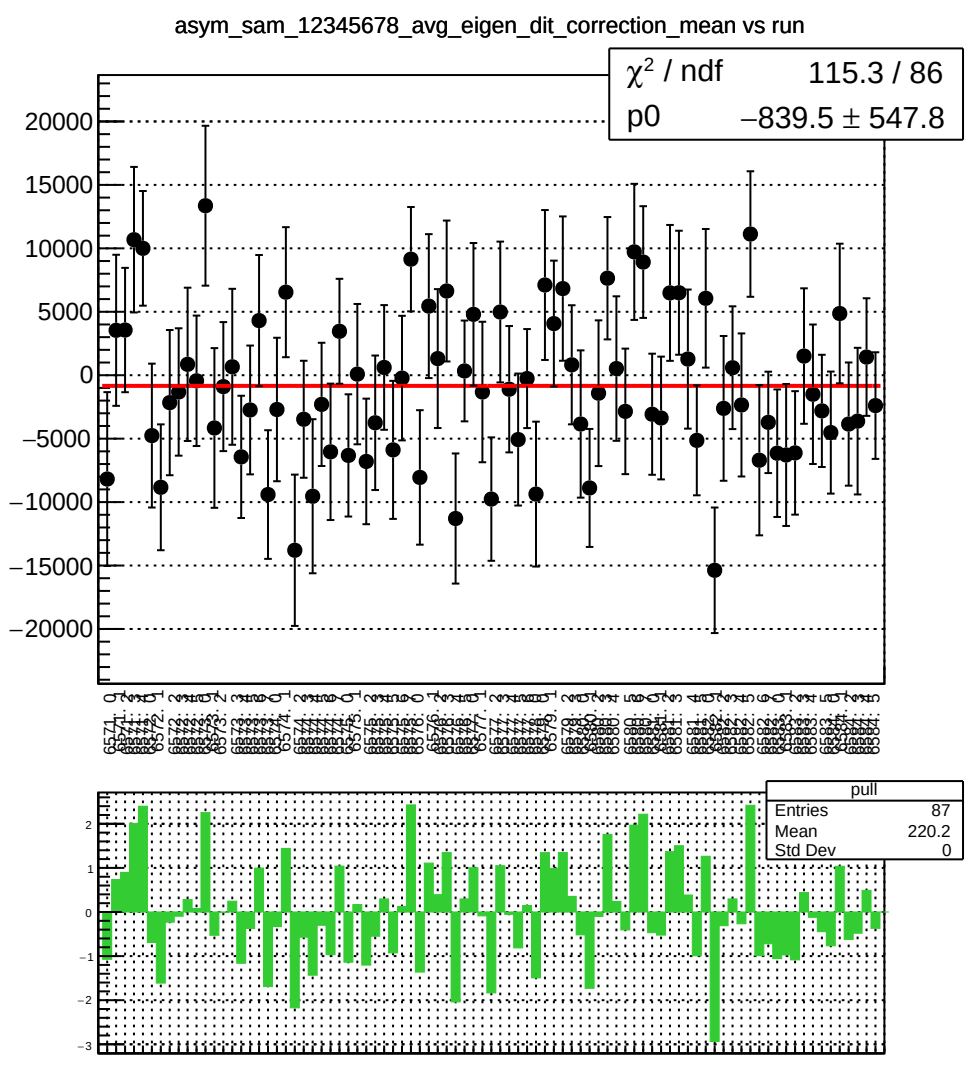

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 115.3 / 86
p0 −839.5 ± 547.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean 220.2
Std Dev 0
2
1
0
−1
−2
−3

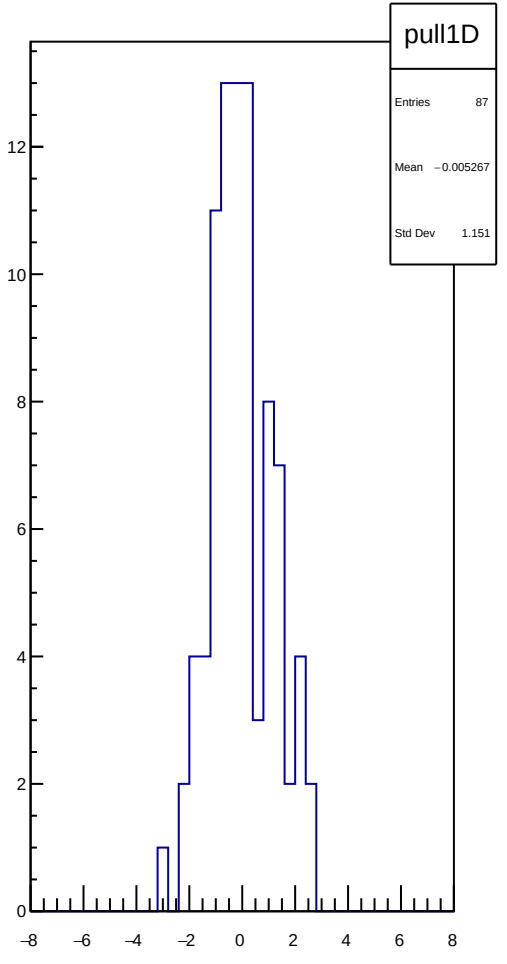

pull1D
Entries 87
Mean −0.005267
Std Dev 1.151
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

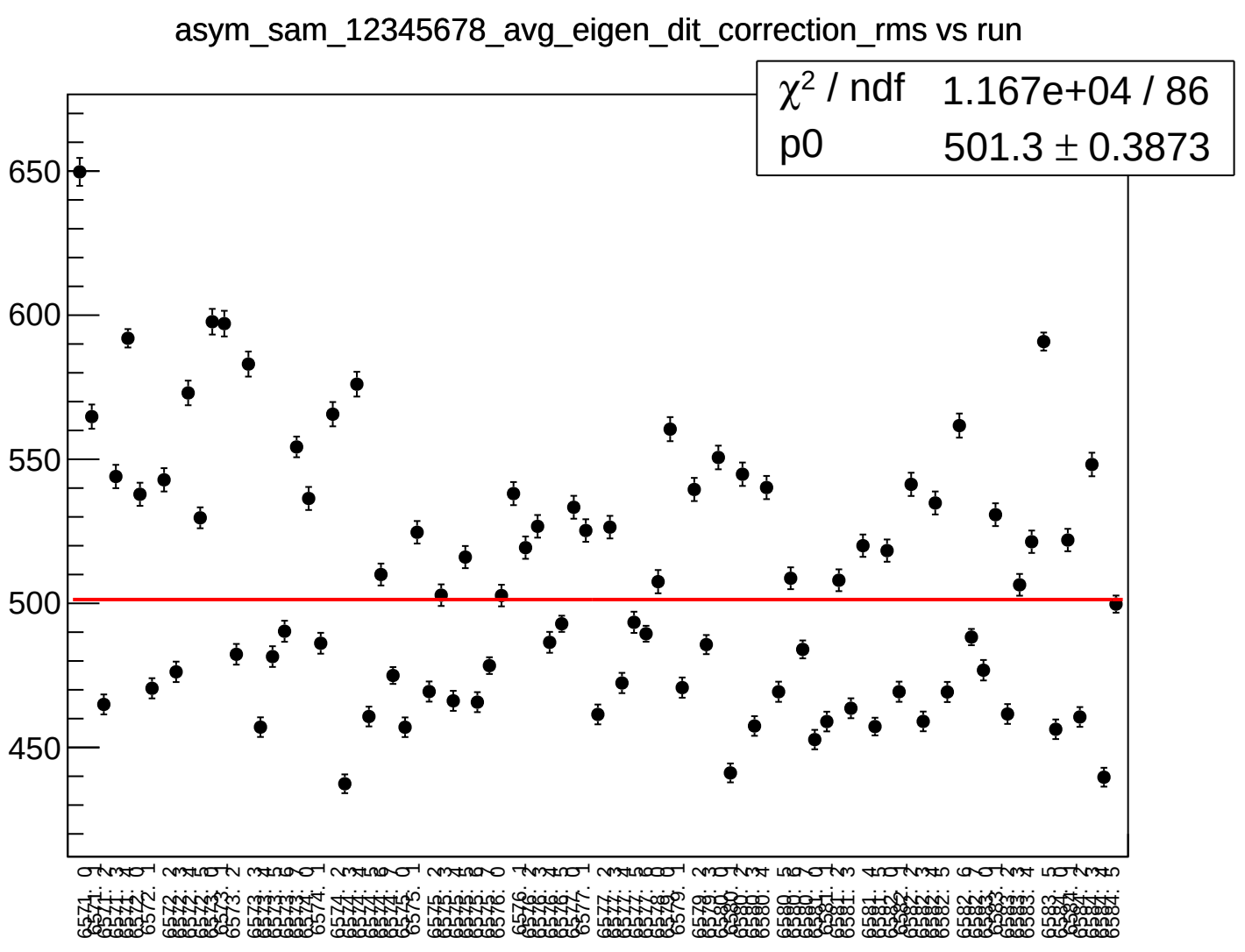

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.167e+04 / 86
p0 501.3 ± 0.3873
650
600
550
500
450

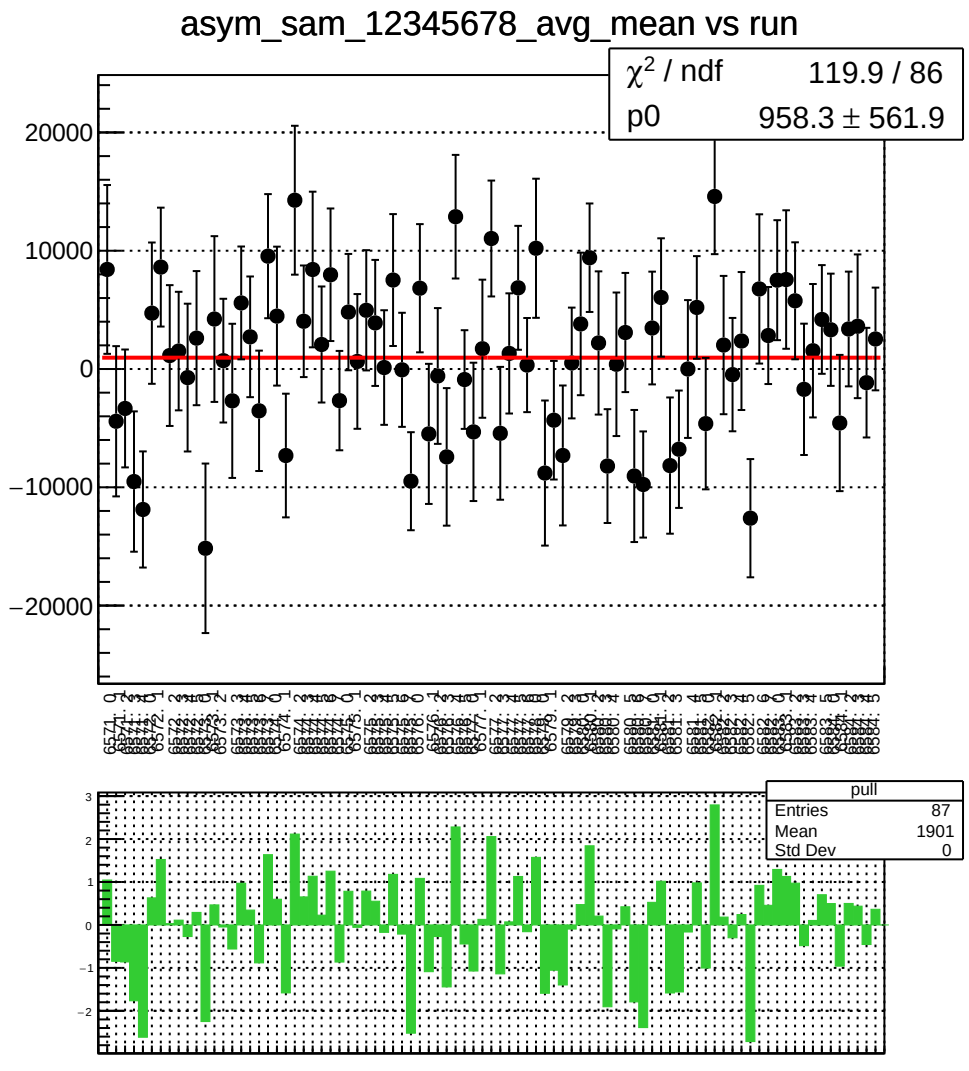

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 81.18 / 86
p0 103.2 ± 97.92
pull
Entries 87
Mean −56.31
Std Dev 0
pull1D
Entries 87
Mean −0.01812
Std Dev 0.9658

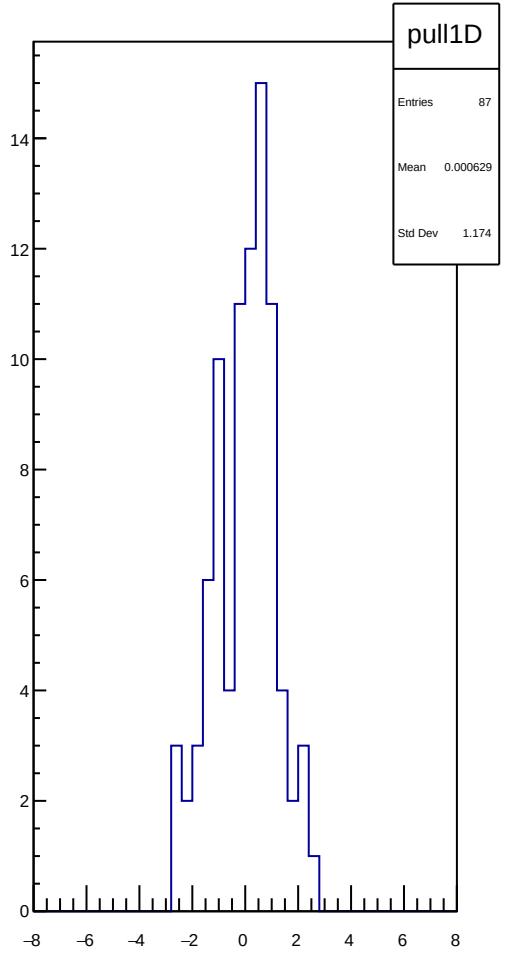

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 8.279e+04 / 86
p0 87.69 ± 0.06924
180
160
140
120
100
80
60

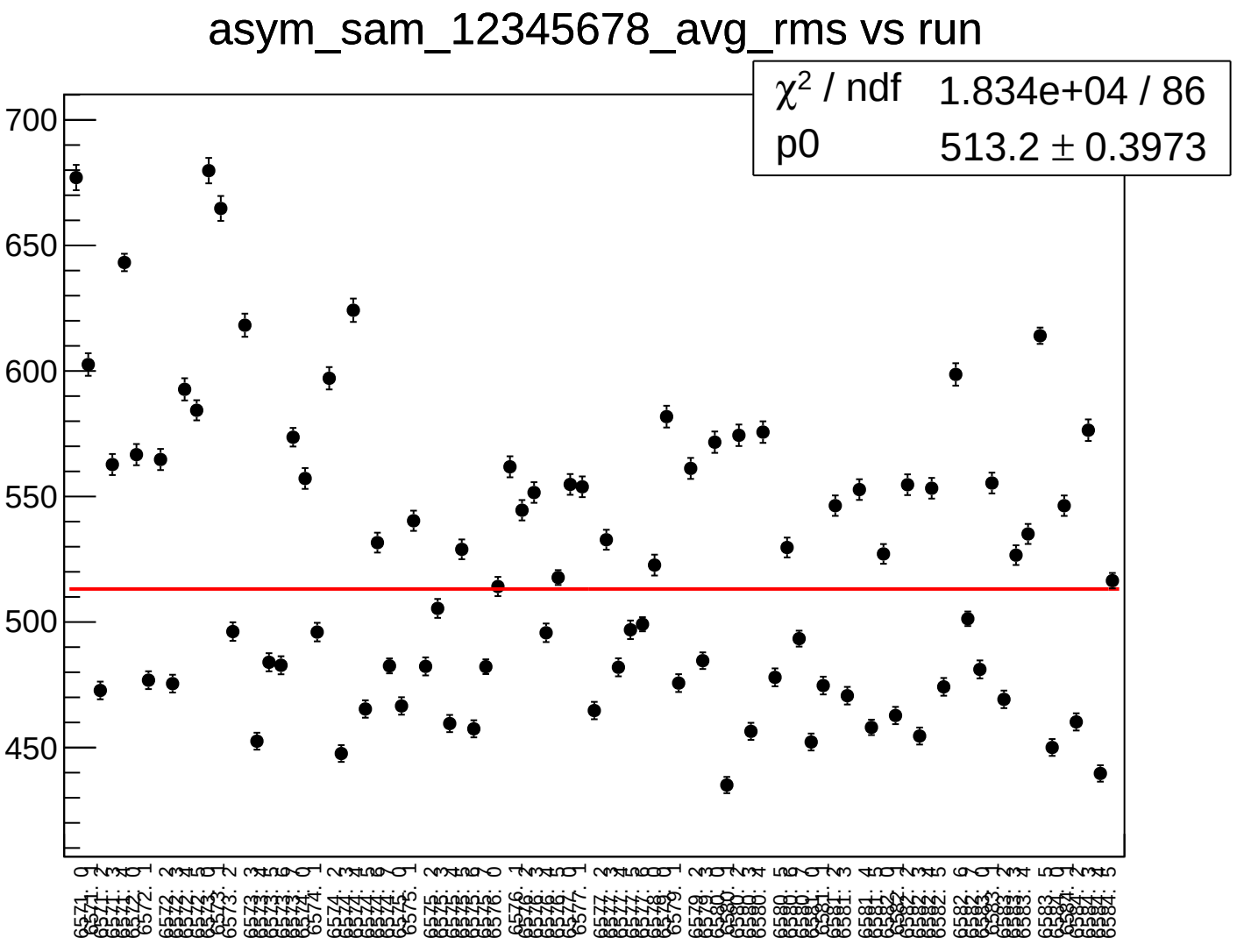

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 115.3 / 86
p0 −839.5 ± 547.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean 220.2
Std Dev 0
2
1
0
−1
−2
−3

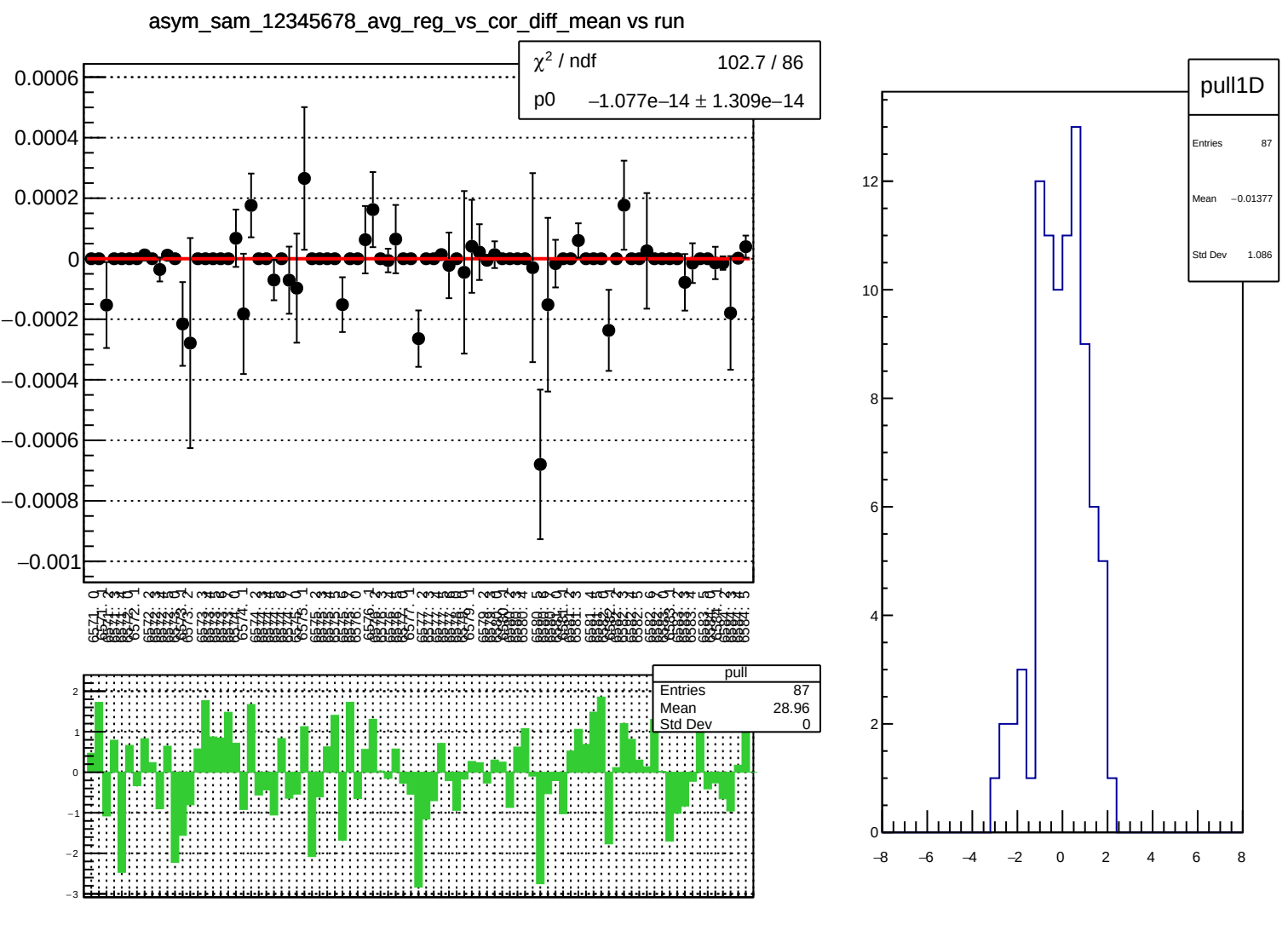

pull1D
Entries 87
Mean −0.005267
Std Dev 1.151
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

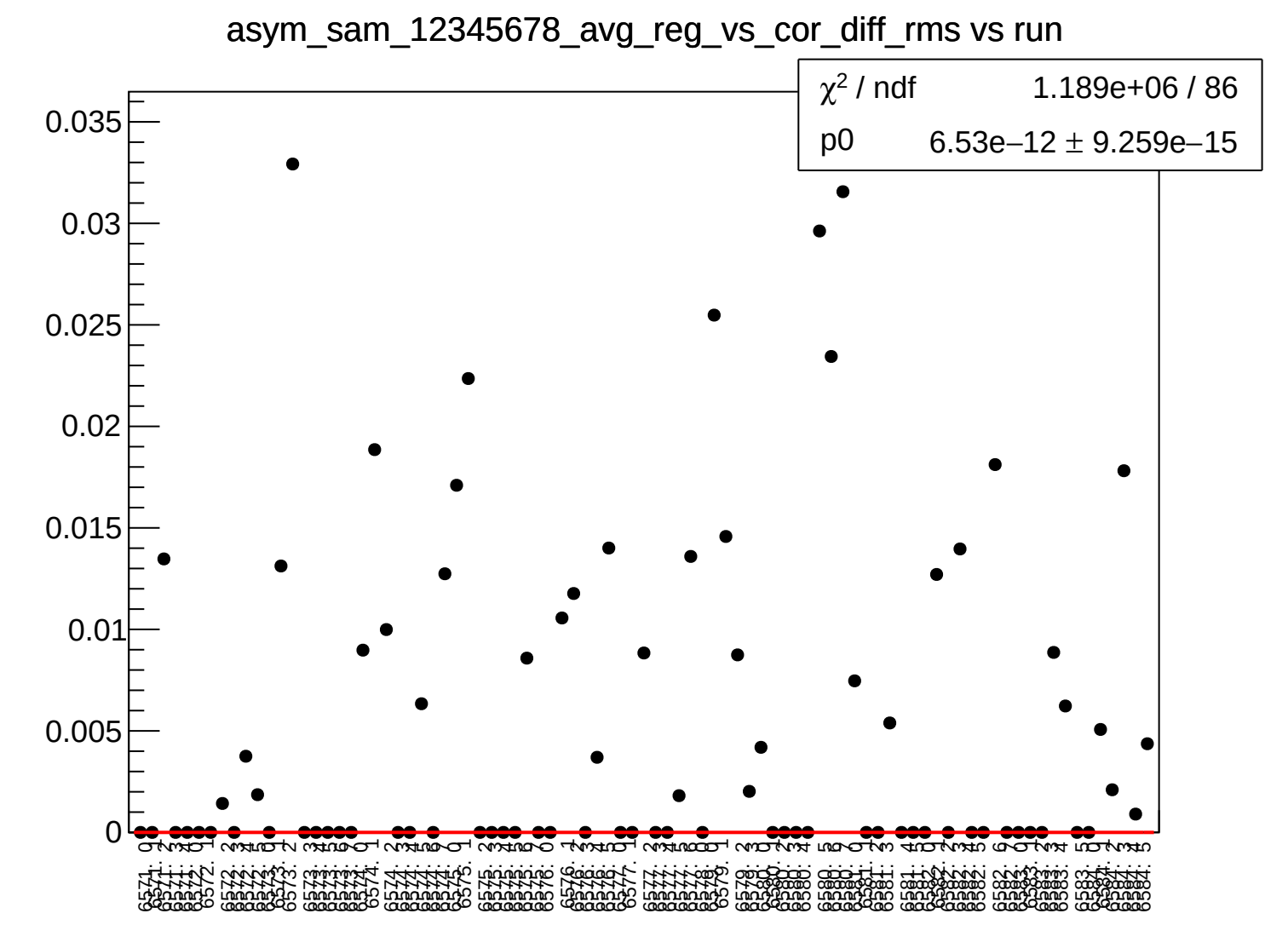

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.167e+04 / 86
p0 501.3 ± 0.3873
650
600
550
500
450

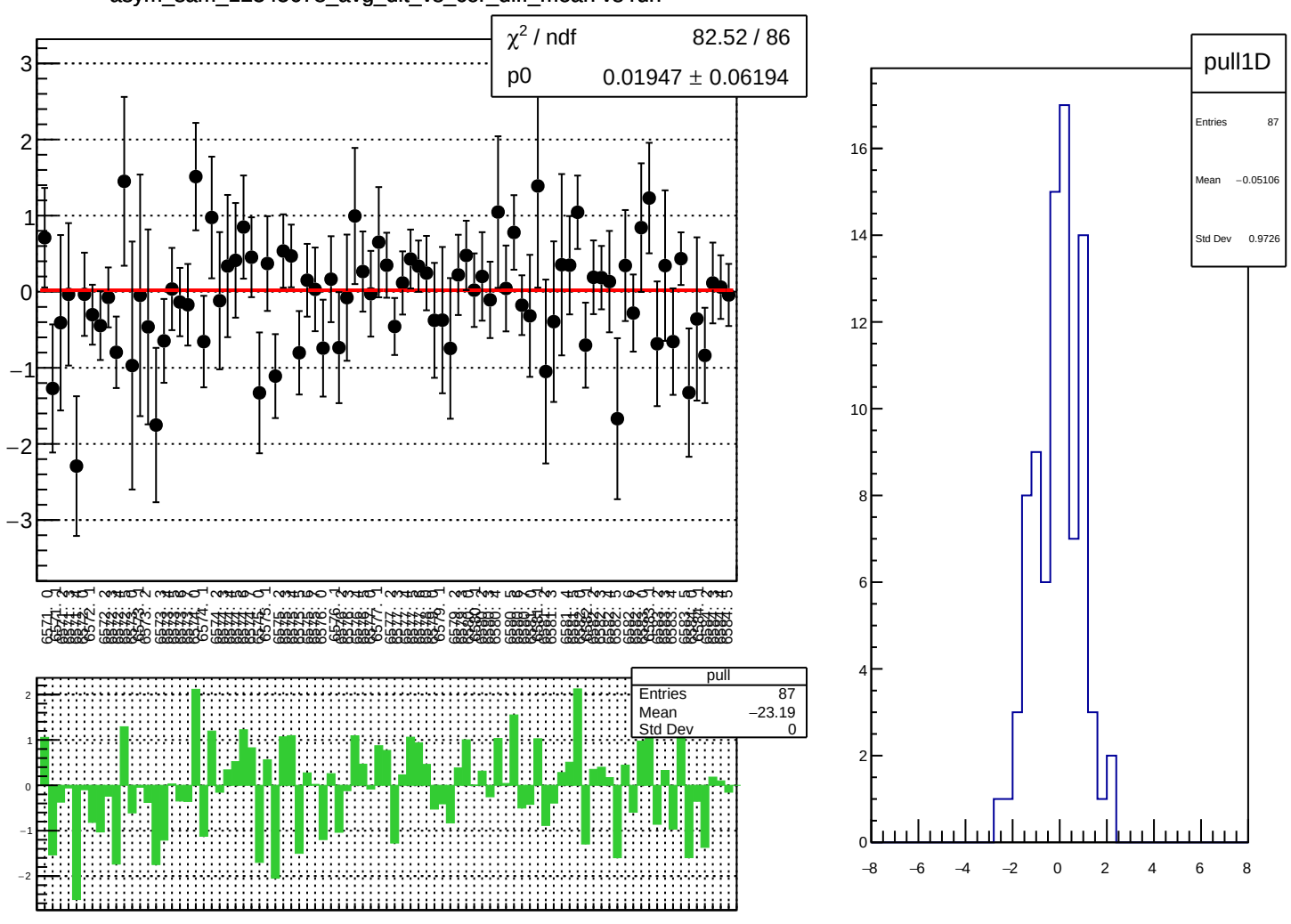

asym_sam_12345678_avg_mean vs run
χ² / ndf 119.9 / 86
p0 958.3 ± 561.9
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 1901
Std Dev 0
3
2
1
0
−1
−2

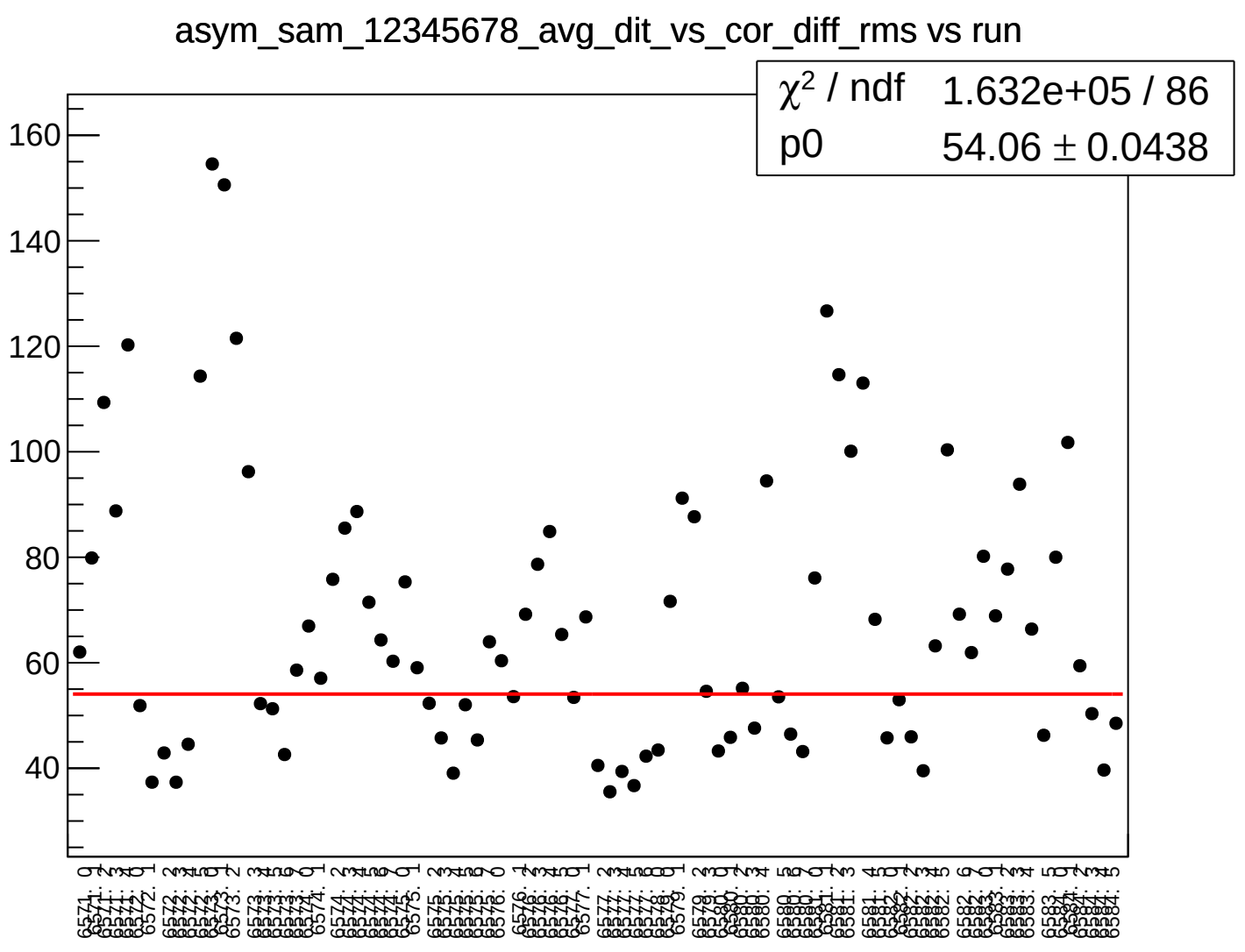

pull1D
Entries 87
Mean 0.000629
Std Dev 1.174
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

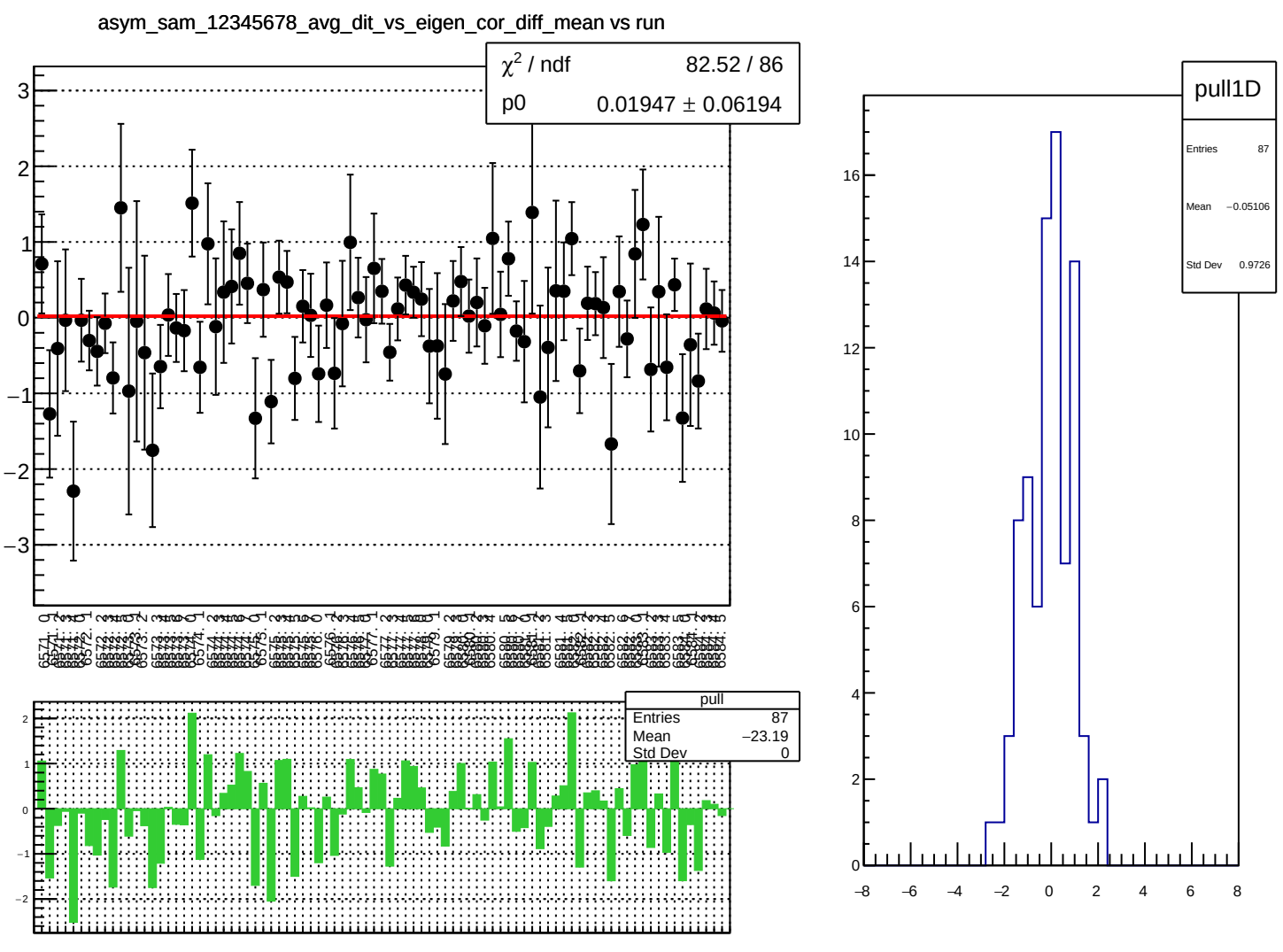

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.834e+04 / 86
p0 513.2 ± 0.3973
700
650
600
550
500
450

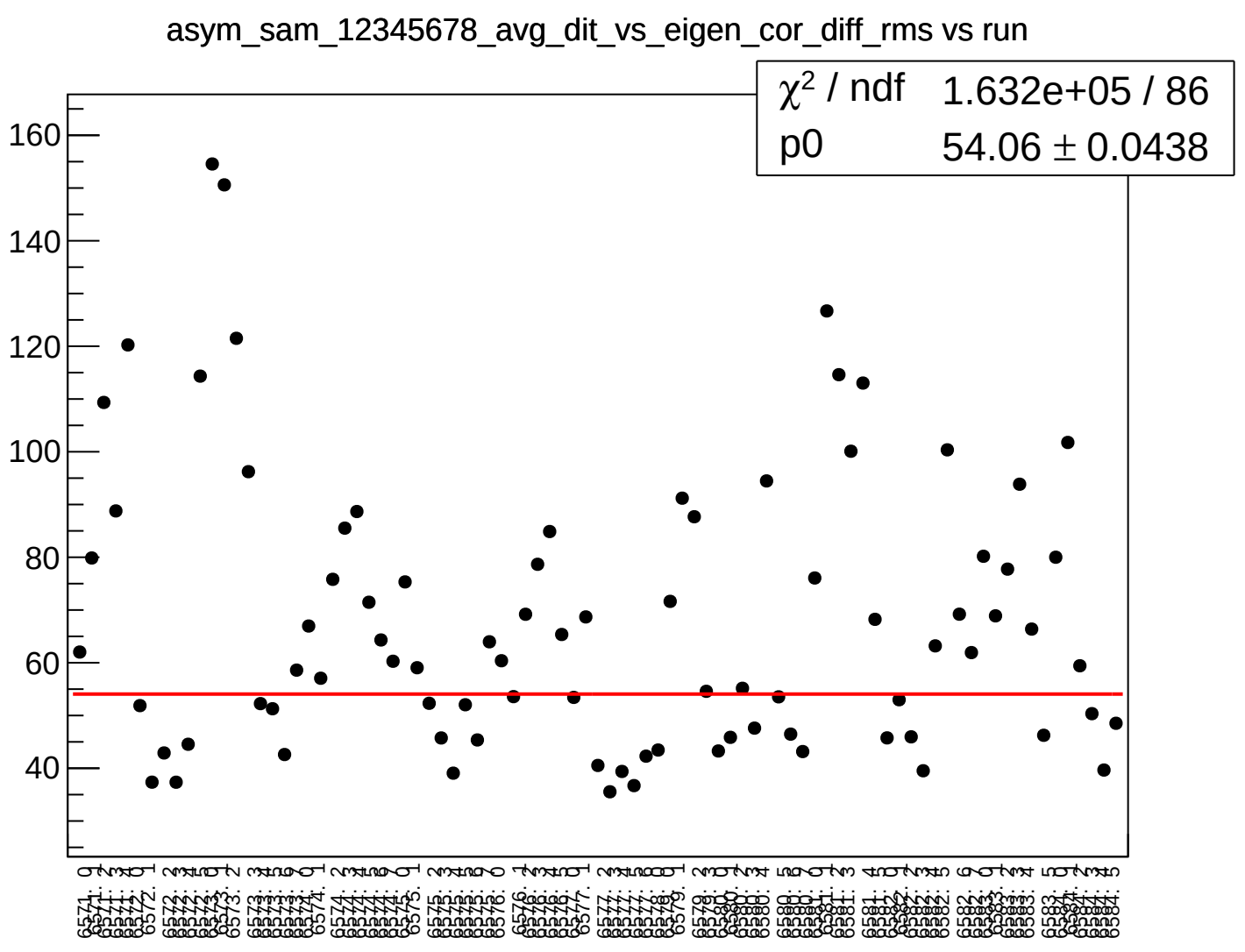

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 86
p0 −1.077e−14 ± 1.309e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 87
Mean 28.96
Std Dev 0
pull1D
Entries 87
Mean −0.01377
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

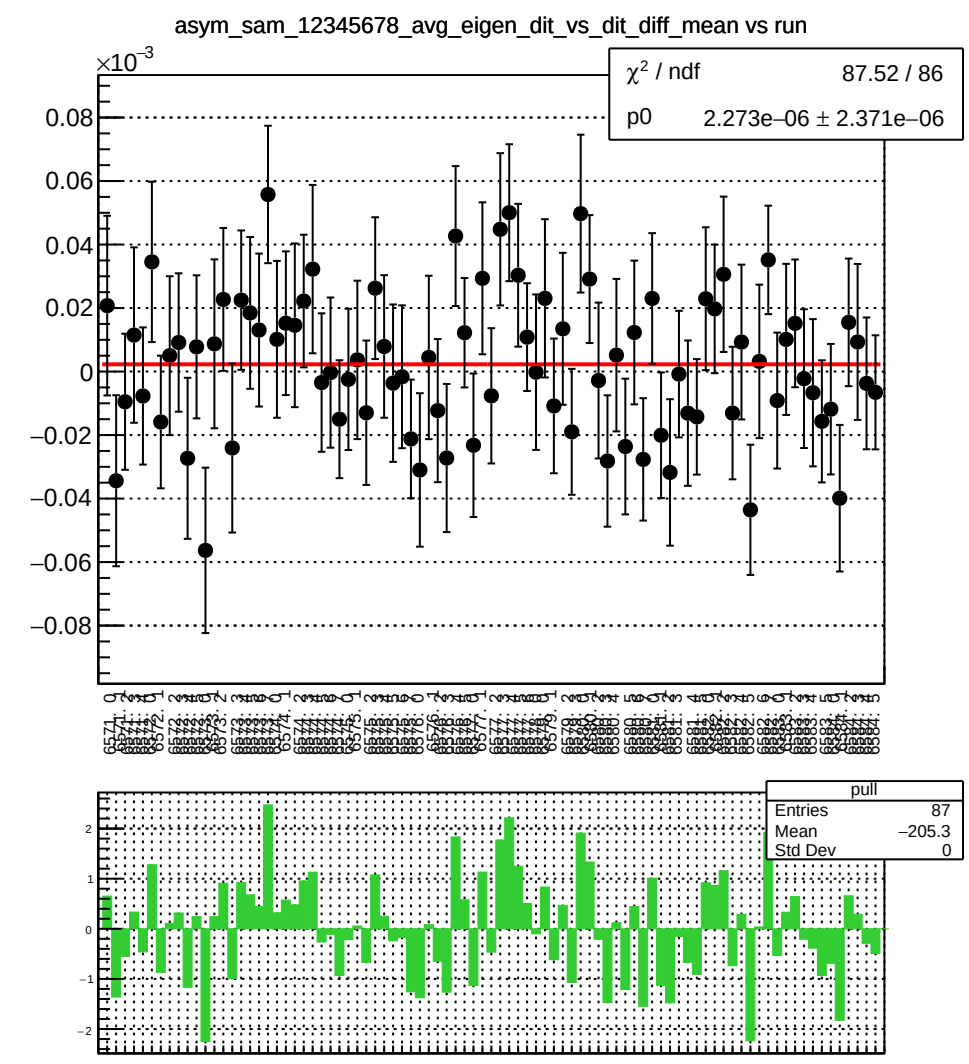

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.189e+06 / 86
p0 6.53e−12 ± 9.259e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

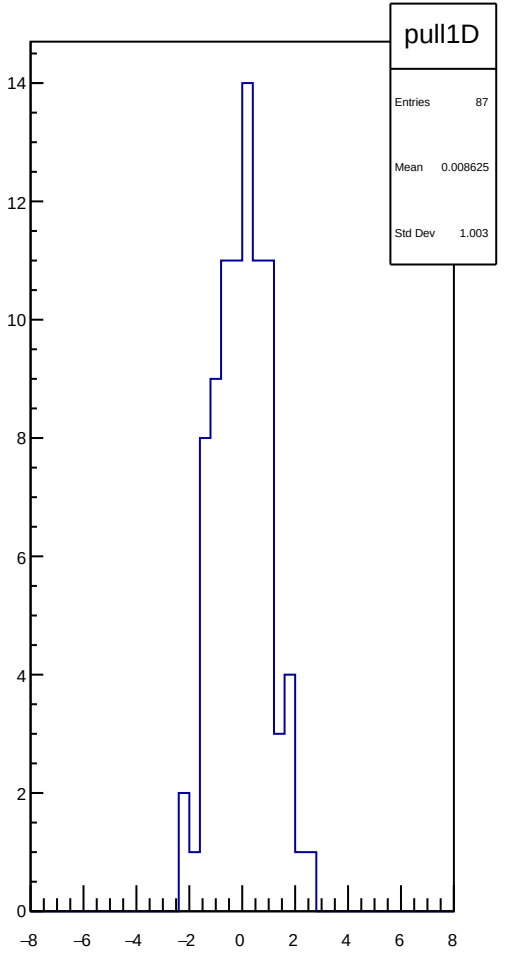

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.52 / 86
p0 0.01947 ± 0.06194
pull
Entries 87
Mean −23.19
Std Dev 0
pull1D
Entries 87
Mean −0.05106
Std Dev 0.9726

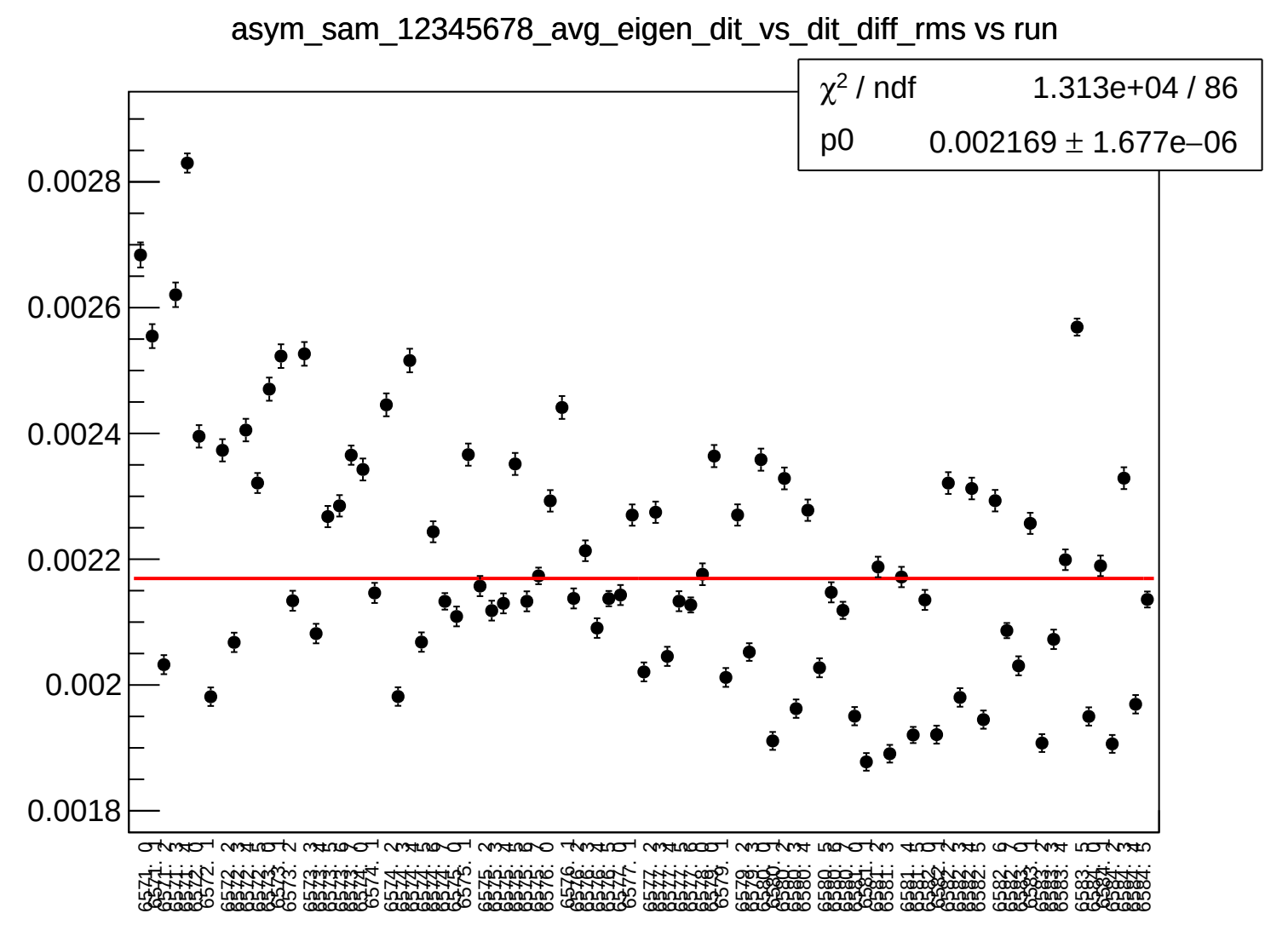

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.632e+05 / 86
p0 54.06 ± 0.0438
160
140
120
100
80
60
40

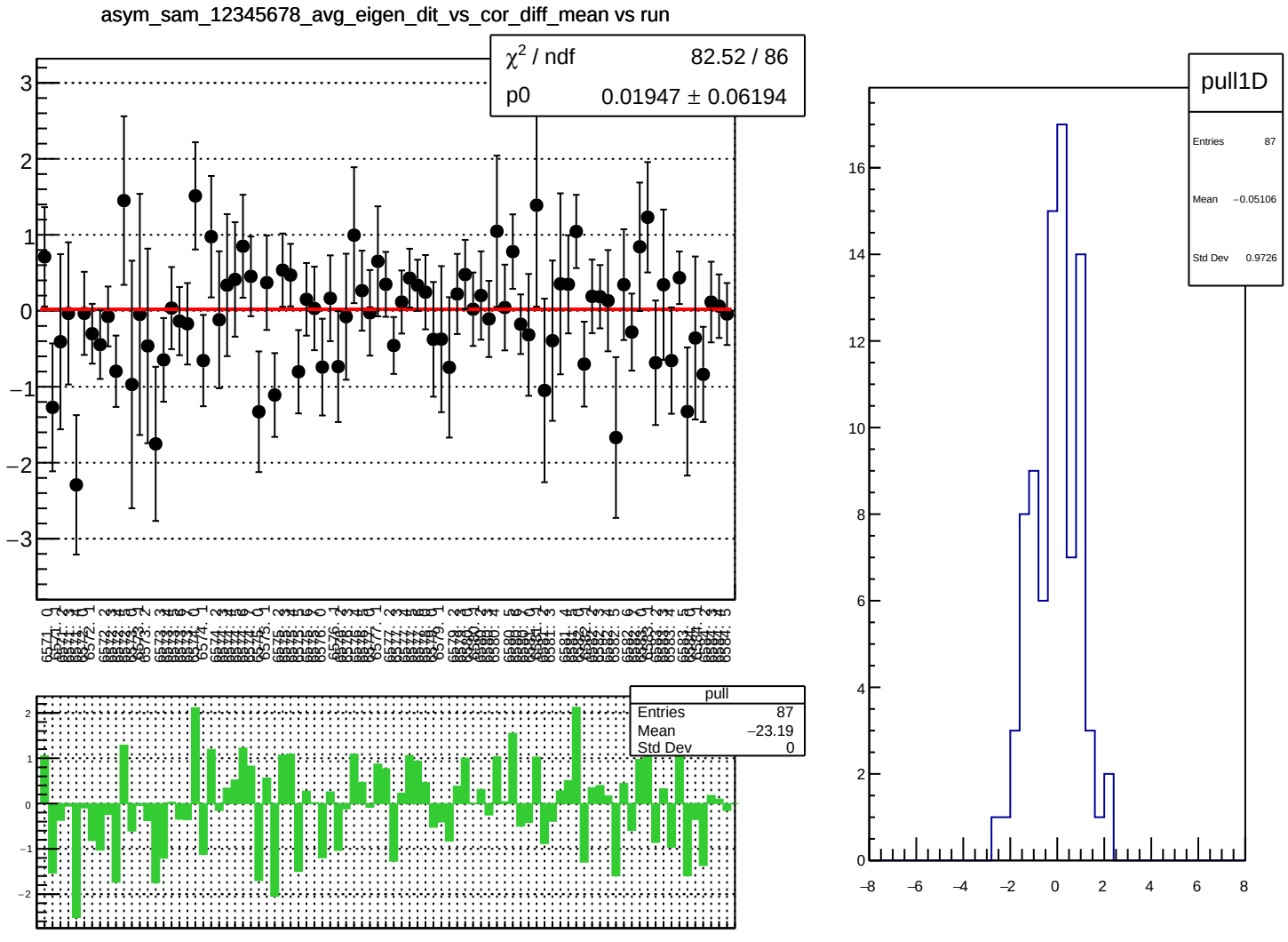

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.52 / 86
p0 0.01947 ± 0.06194
pull
Entries 87
Mean −23.19
Std Dev 0
pull1D
Entries 87
Mean −0.05106
Std Dev 0.9726

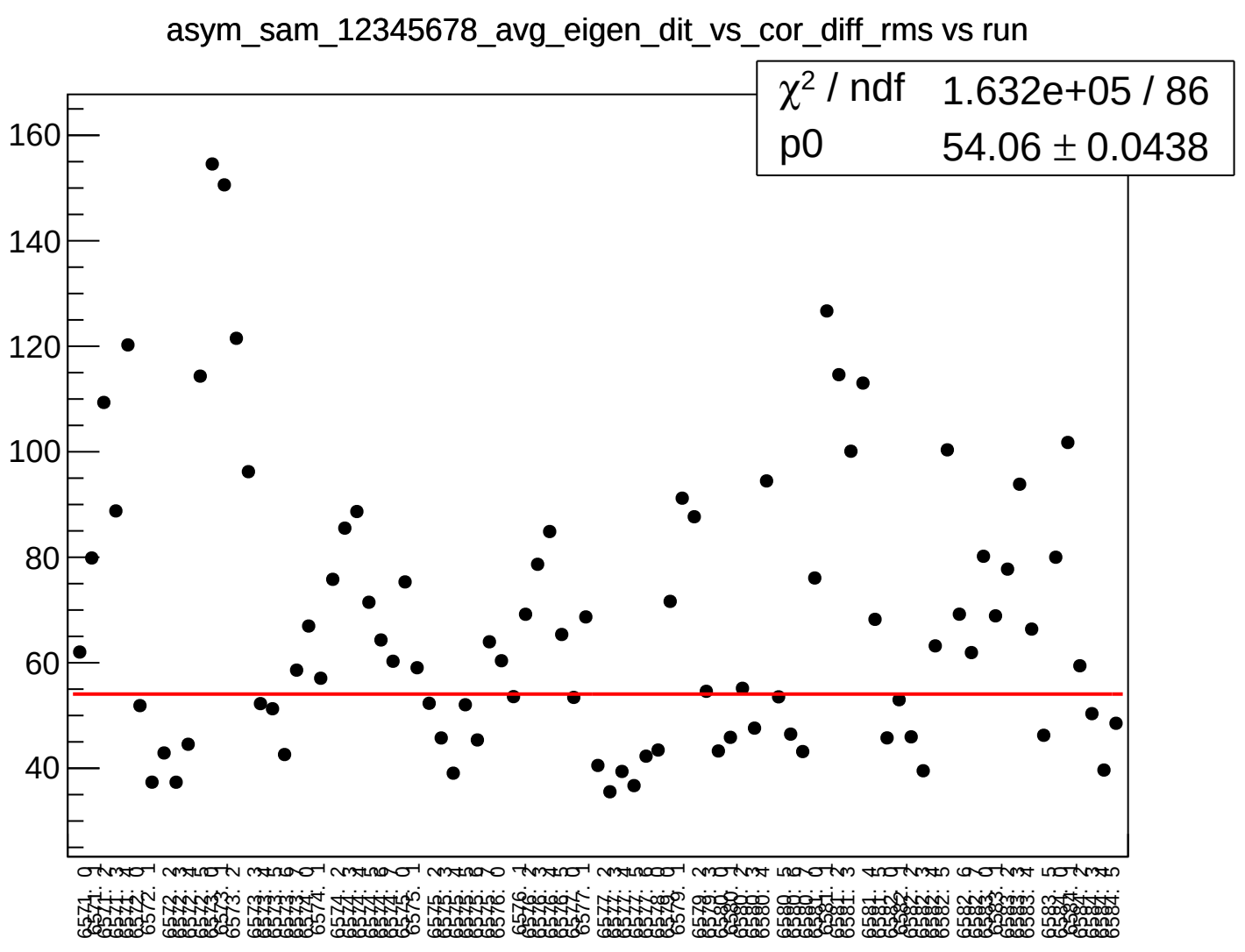

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.632e+05 / 86
p0 54.06 ± 0.0438
160
140
120
100
80
60
40

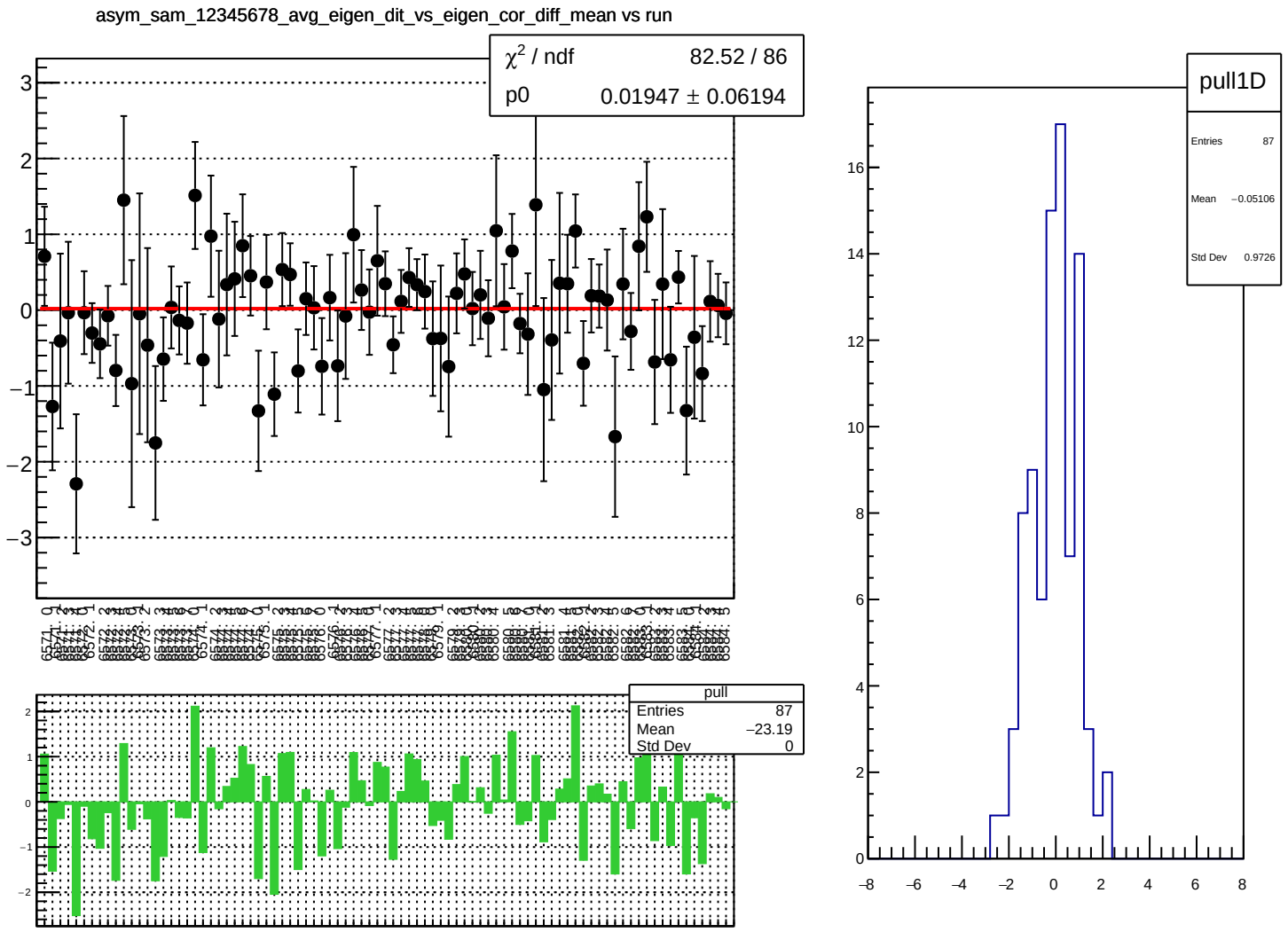

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.52 / 86
p0 2.273e−06 ± 2.371e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 87
Mean −205.3
Std Dev 0
2
1
0
−1
−2

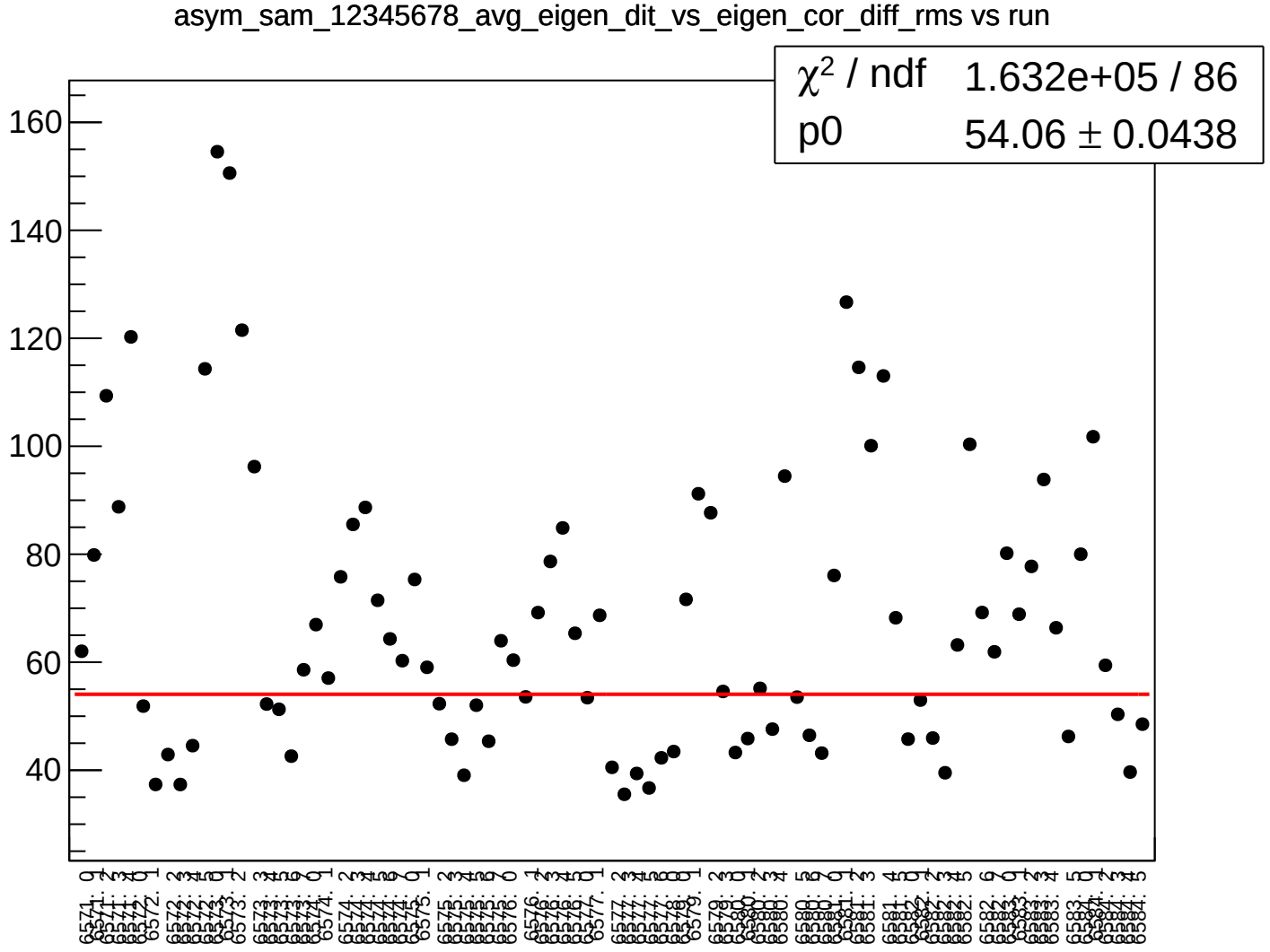

pull1D
Entries 87
Mean 0.008625
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

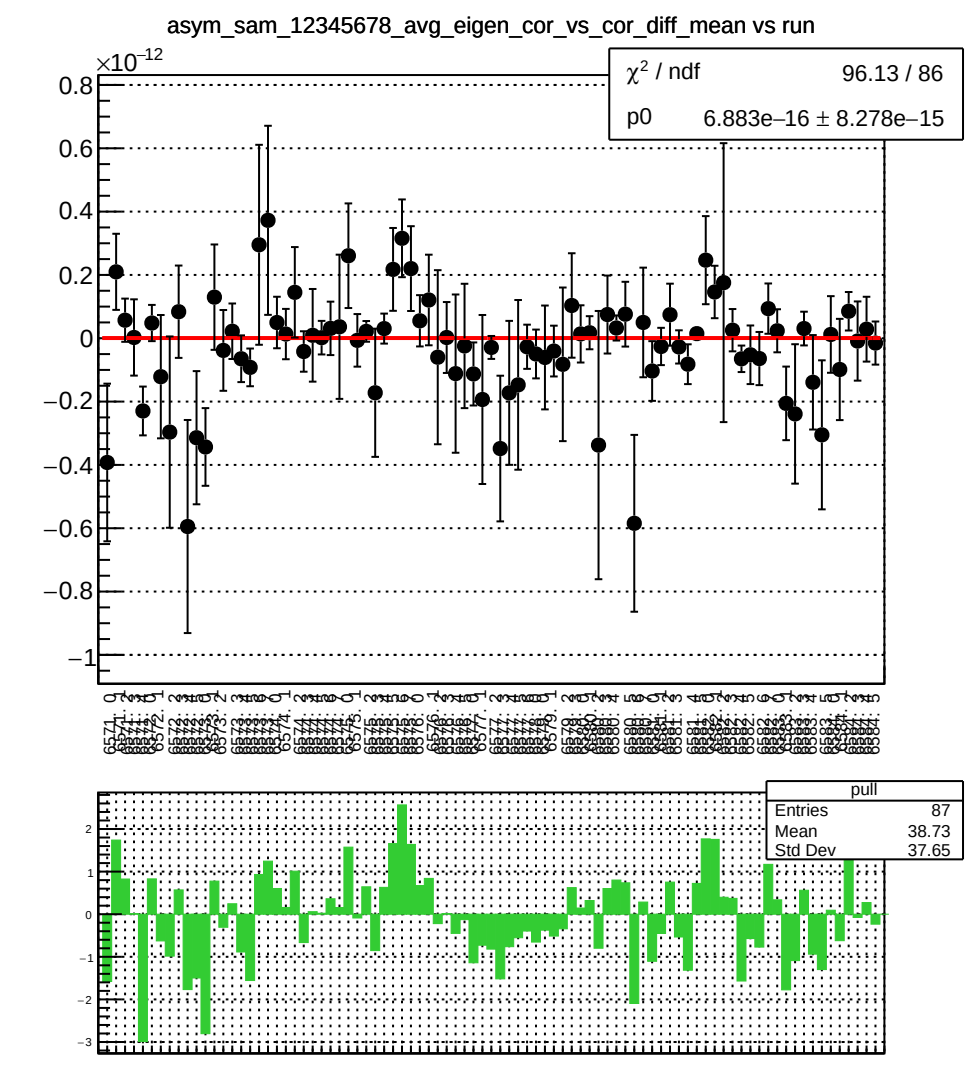

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.313e+04 / 86
p0 0.002169 ± 1.677e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

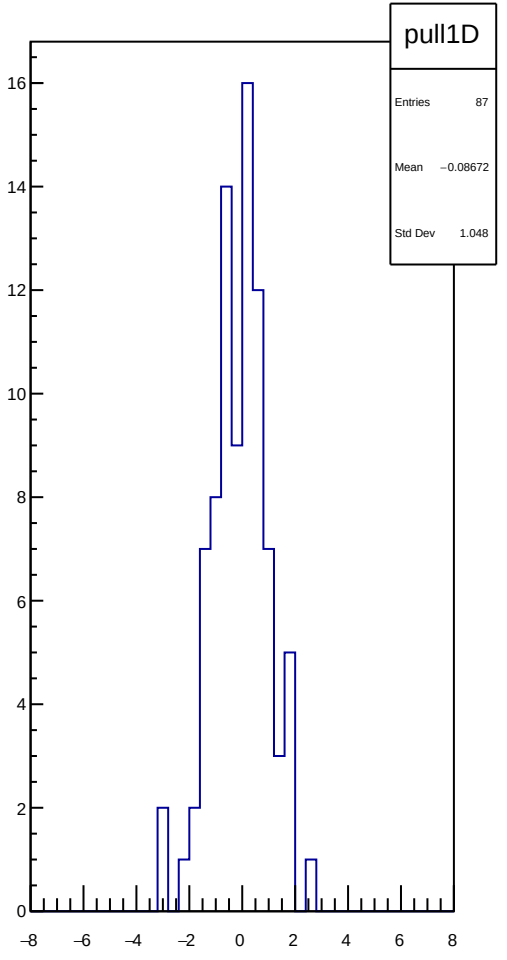

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.52 / 86
p0 0.01947 ± 0.06194
pull
Entries 87
Mean −23.19
Std Dev 0
pull1D
Entries 87
Mean −0.05106
Std Dev 0.9726

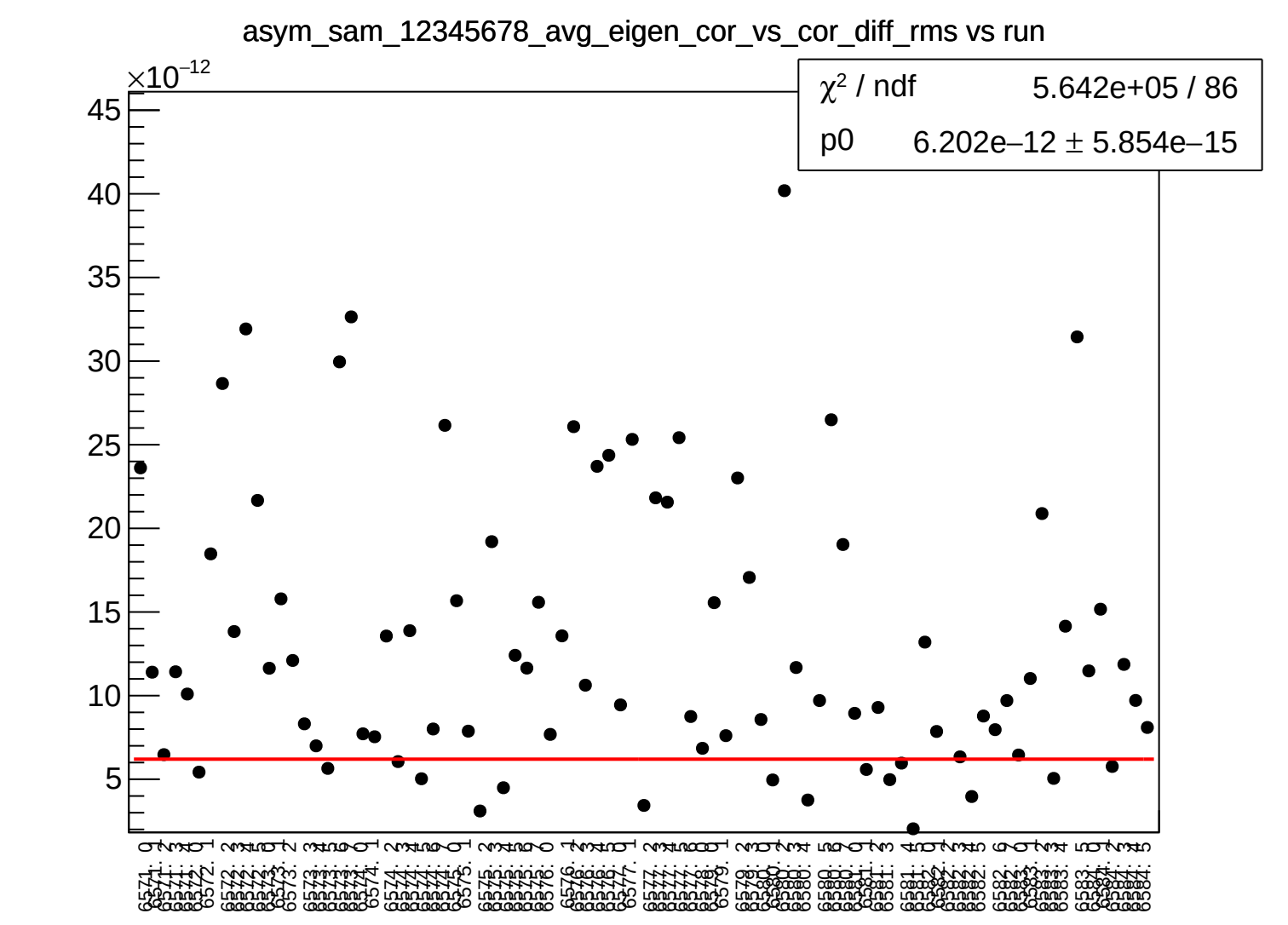

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.632e+05 / 86
p0 54.06 ± 0.0438
160
140
120
100
80
60
40

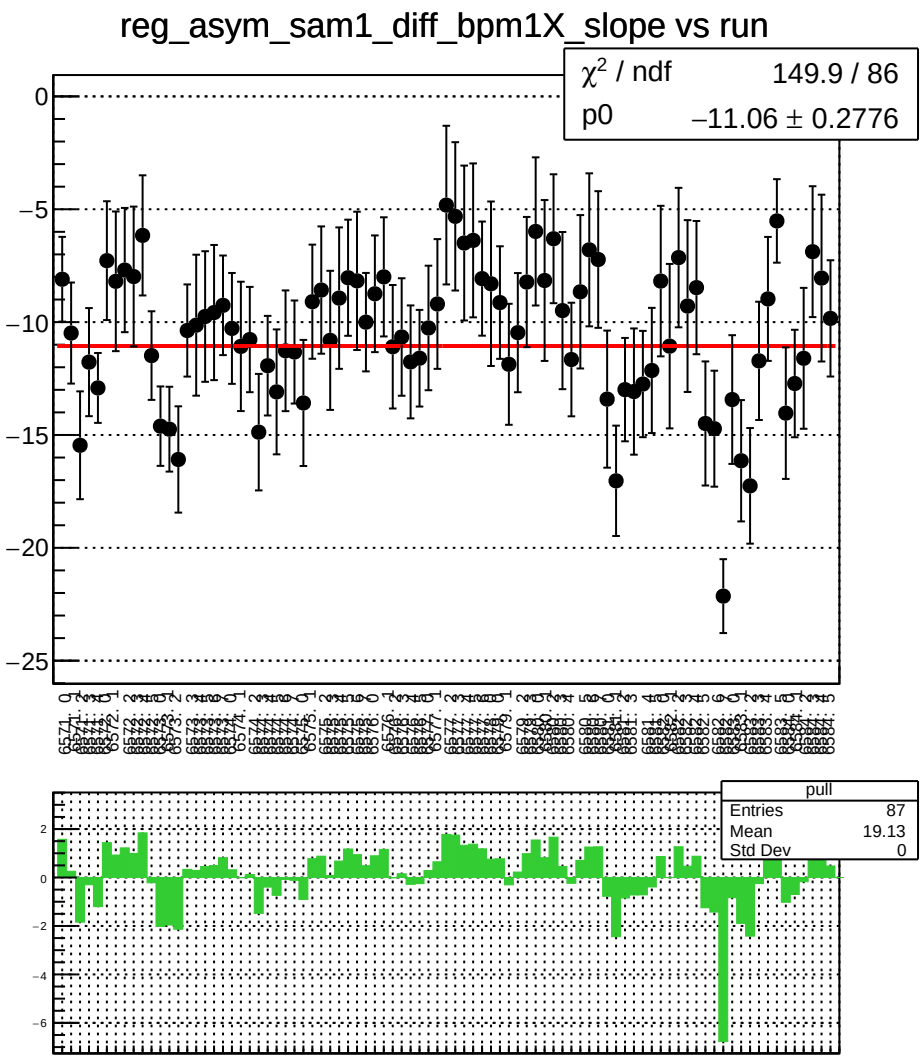

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.52 / 86
p0 0.01947 ± 0.06194
pull
Entries 87
Mean −23.19
Std Dev 0
pull1D
Entries 87
Mean −0.05106
Std Dev 0.9726

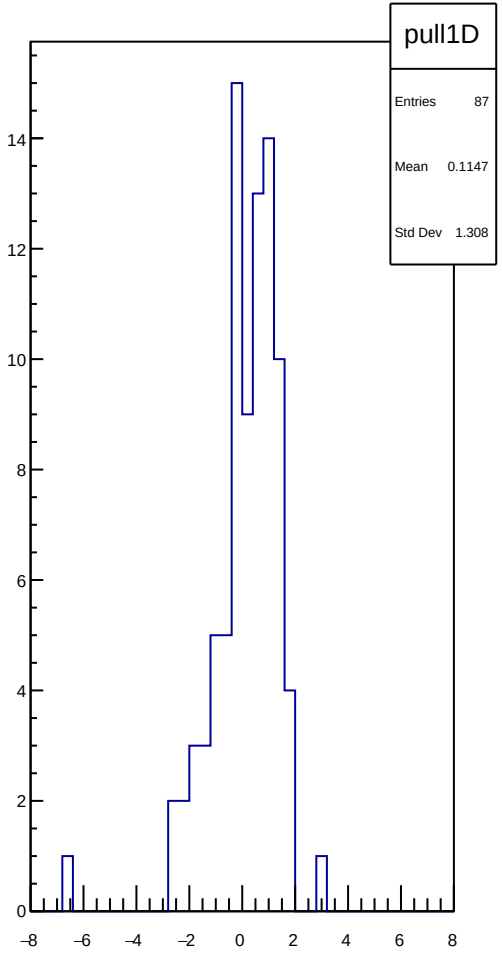

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.632e+05 / 86
p0 54.06 ± 0.0438
160
140
120
100
80
60
40

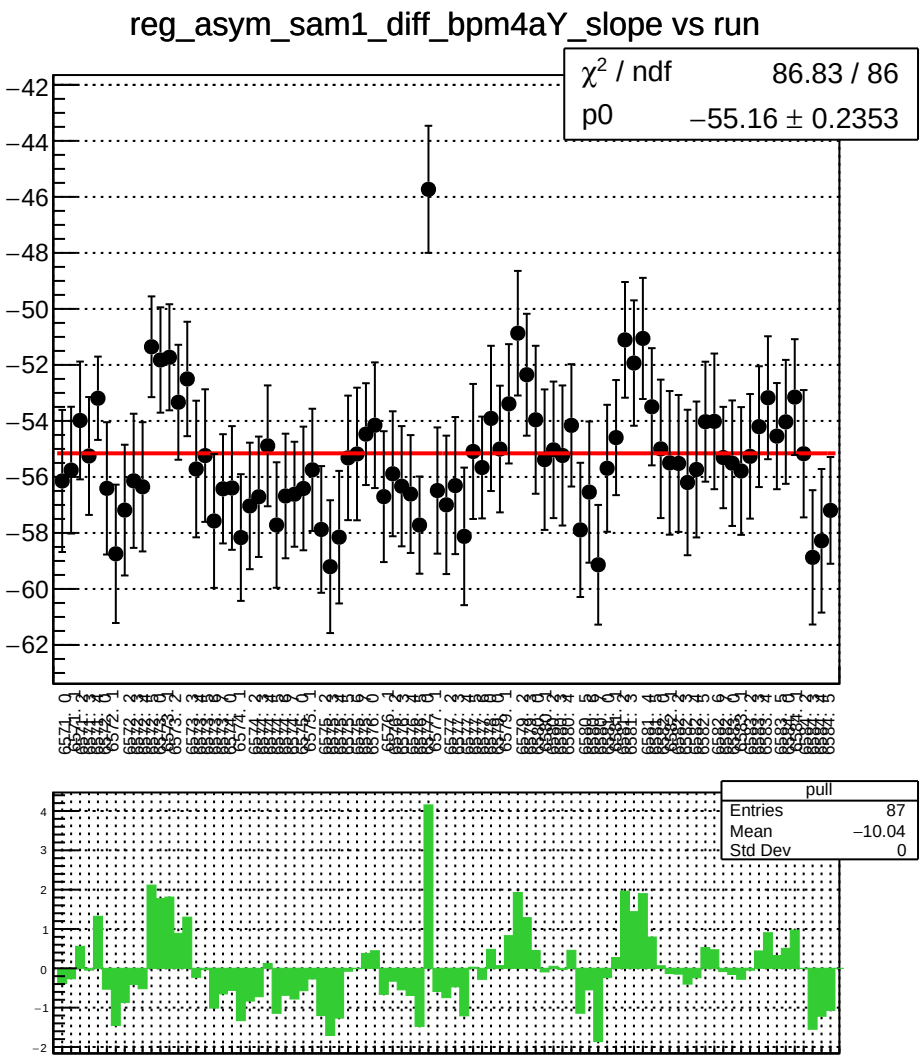

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.13 / 86
p0 6.883e−16 ± 8.278e−15
pull
Entries 87
Mean 38.73
Std Dev 37.65

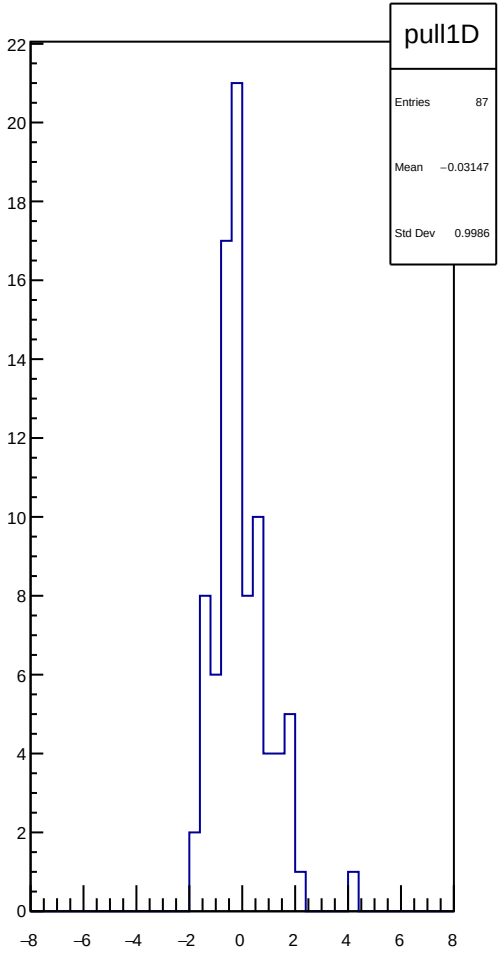

pull1D
Entries 87
Mean −0.08672
Std Dev 1.048

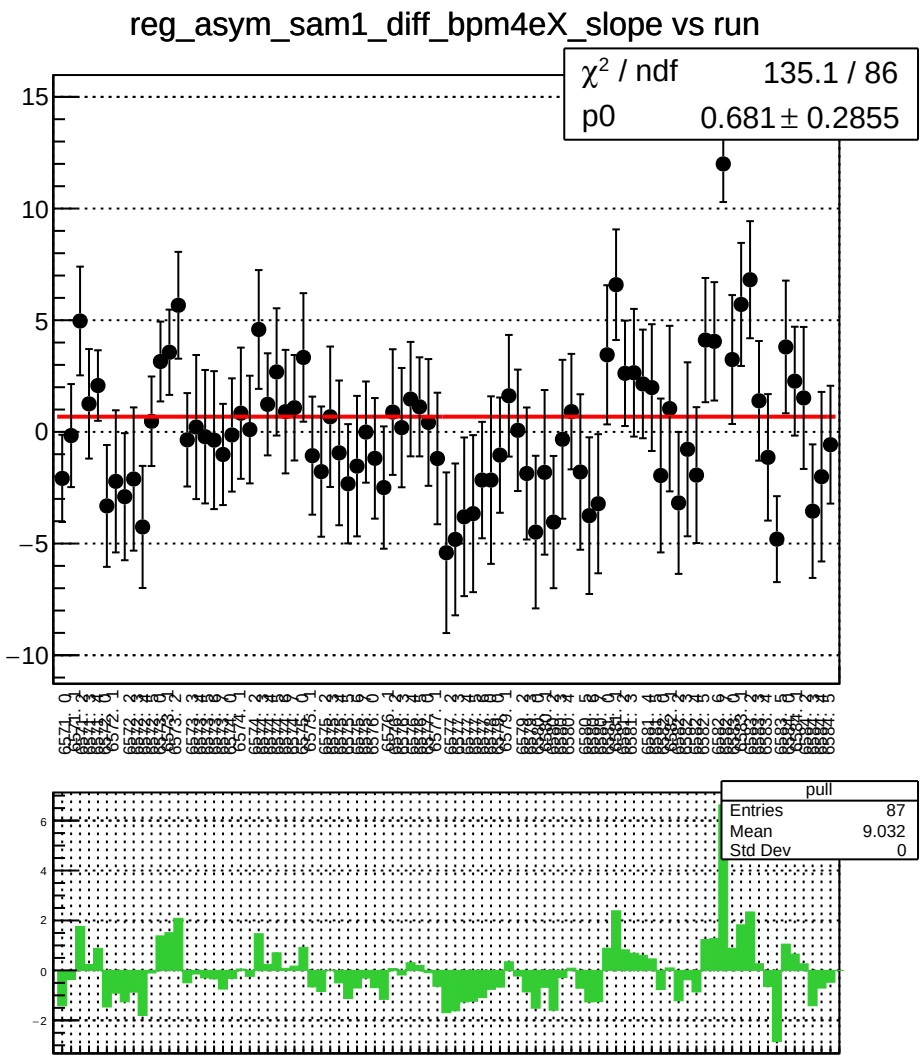

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.642e+05 / 86
p0 6.202e−12 ± 5.854e−15
45
40
35
30
25
20
15
10
5

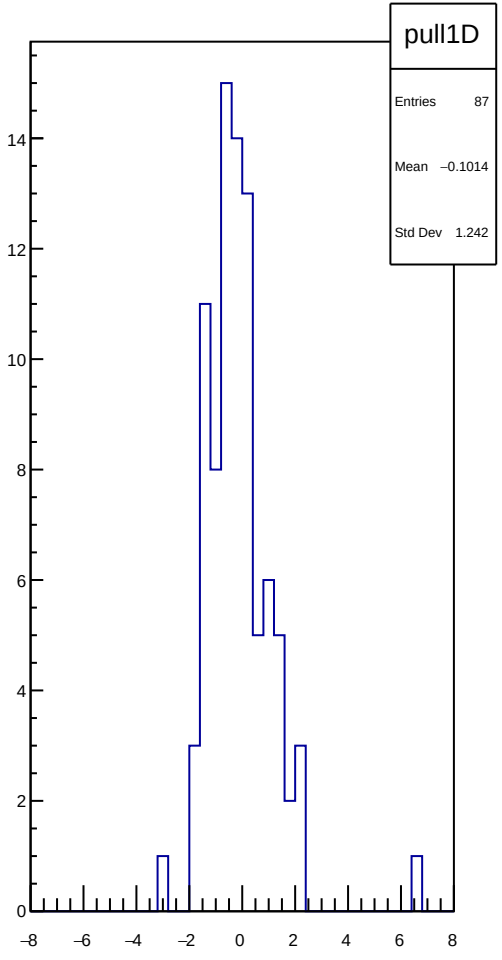

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 149.9 / 86
p0 −11.06 ± 0.2776
pull
Entries 87
Mean 19.13
Std Dev 0

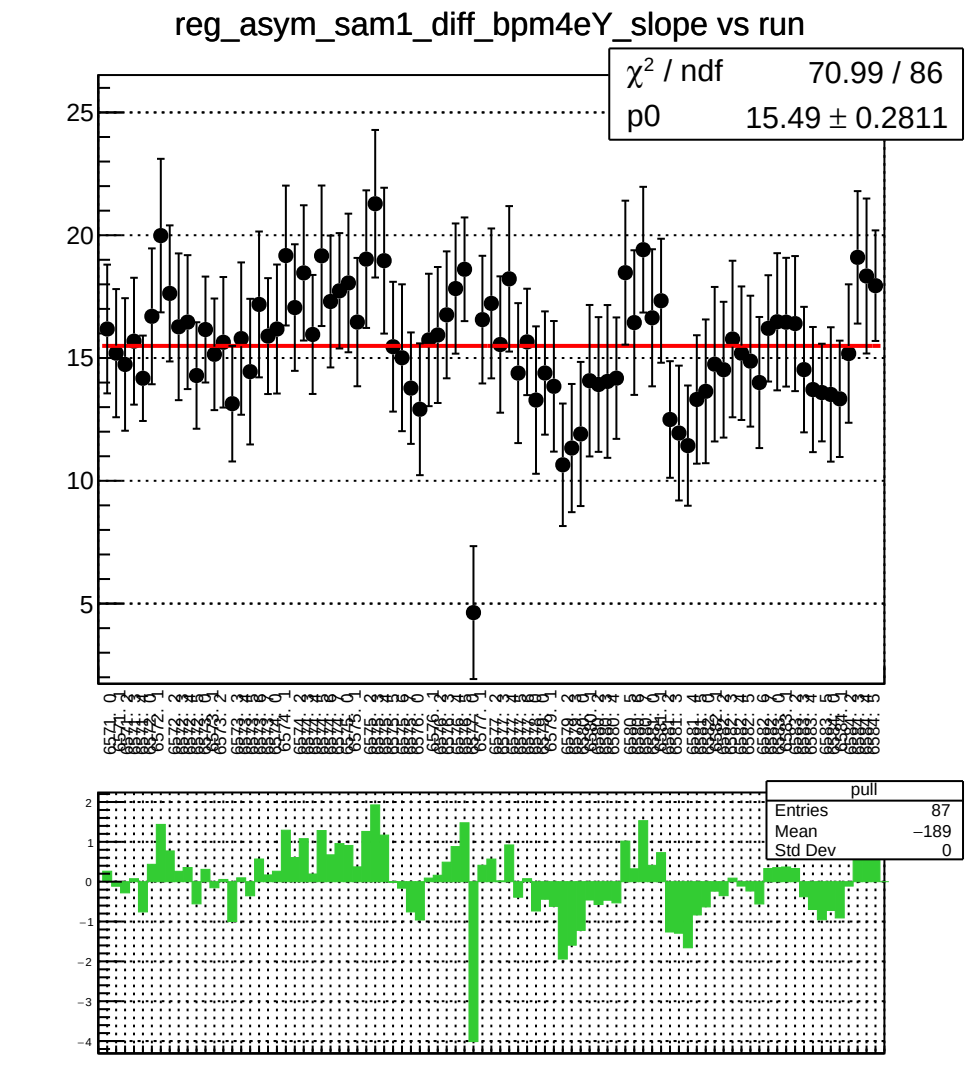

pull1D
Entries 87
Mean 0.1147
Std Dev 1.308

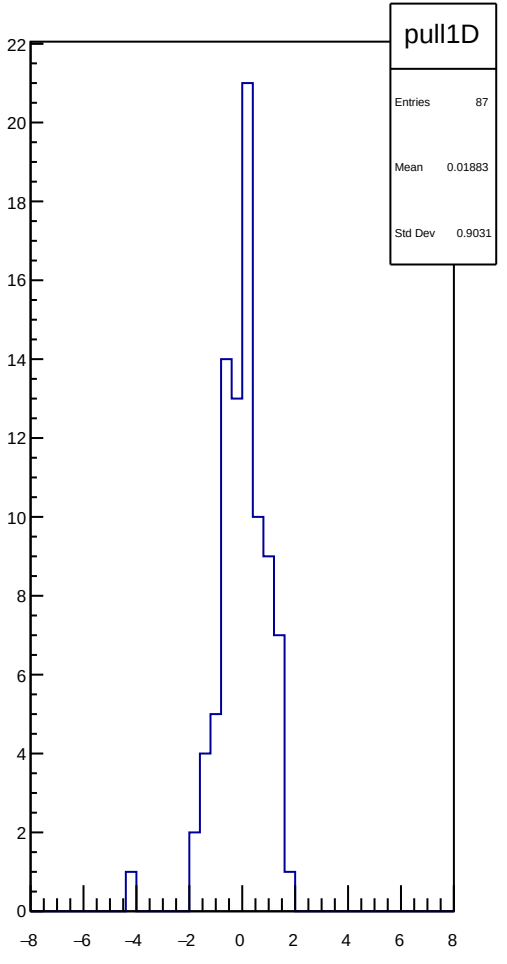

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 86.83 / 86
p0 −55.16 ± 0.2353
pull
Entries 87
Mean −10.04
Std Dev 0

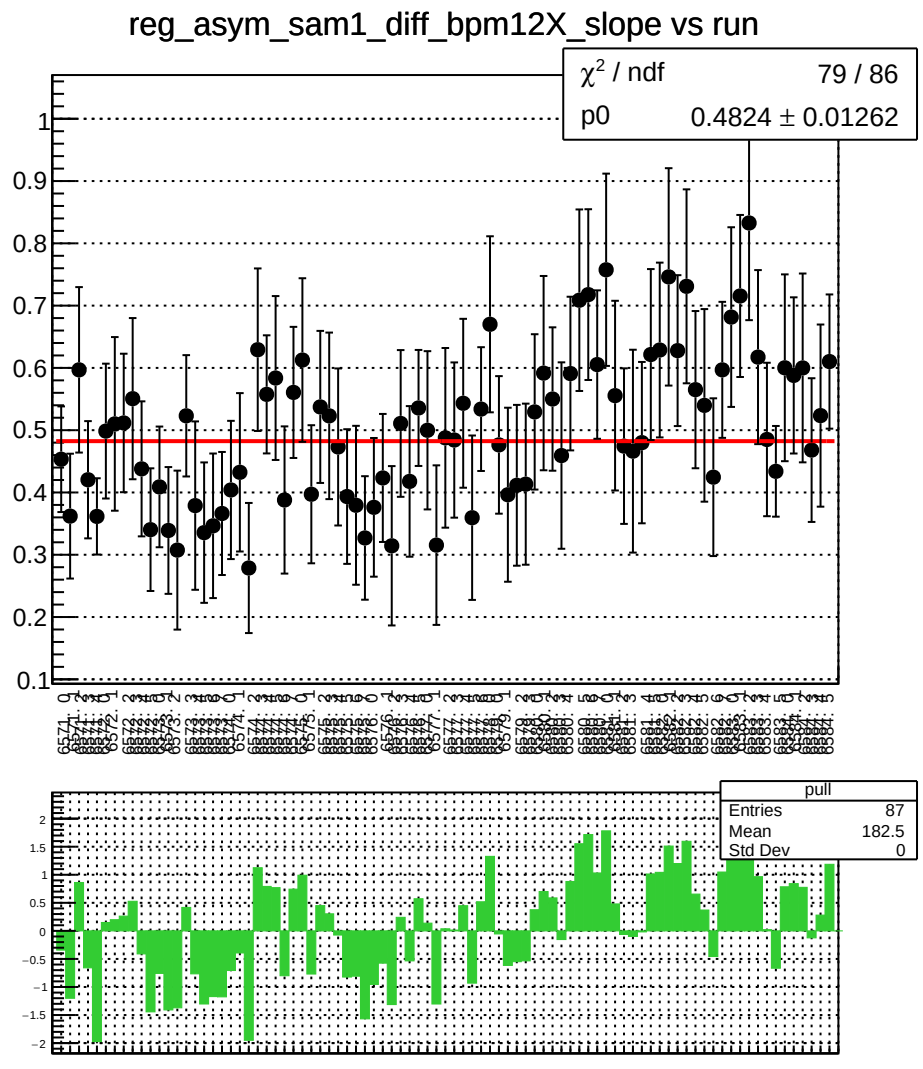

pull1D
Entries 87
Mean −0.03147
Std Dev 0.9986

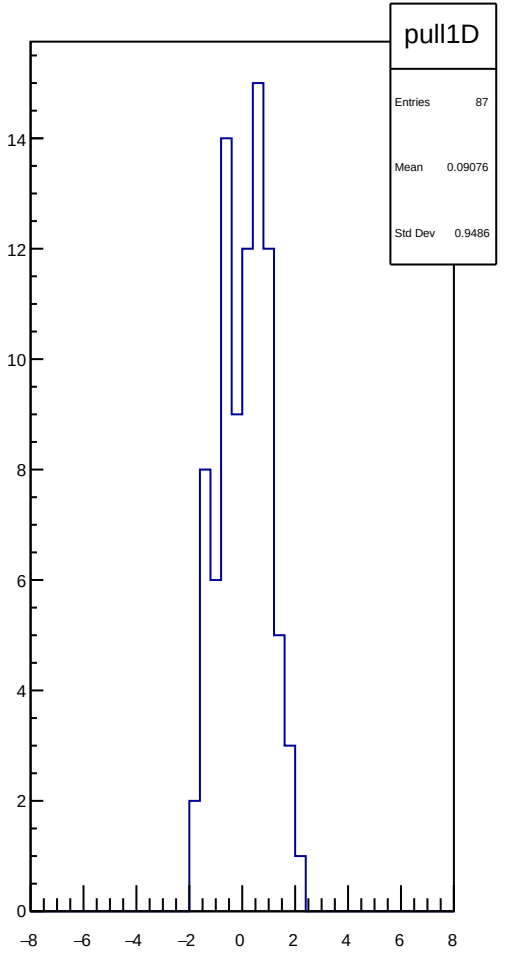

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 135.1 / 86
p0 0.681 ± 0.2855
pull
Entries 87
Mean 9.032
Std Dev 0

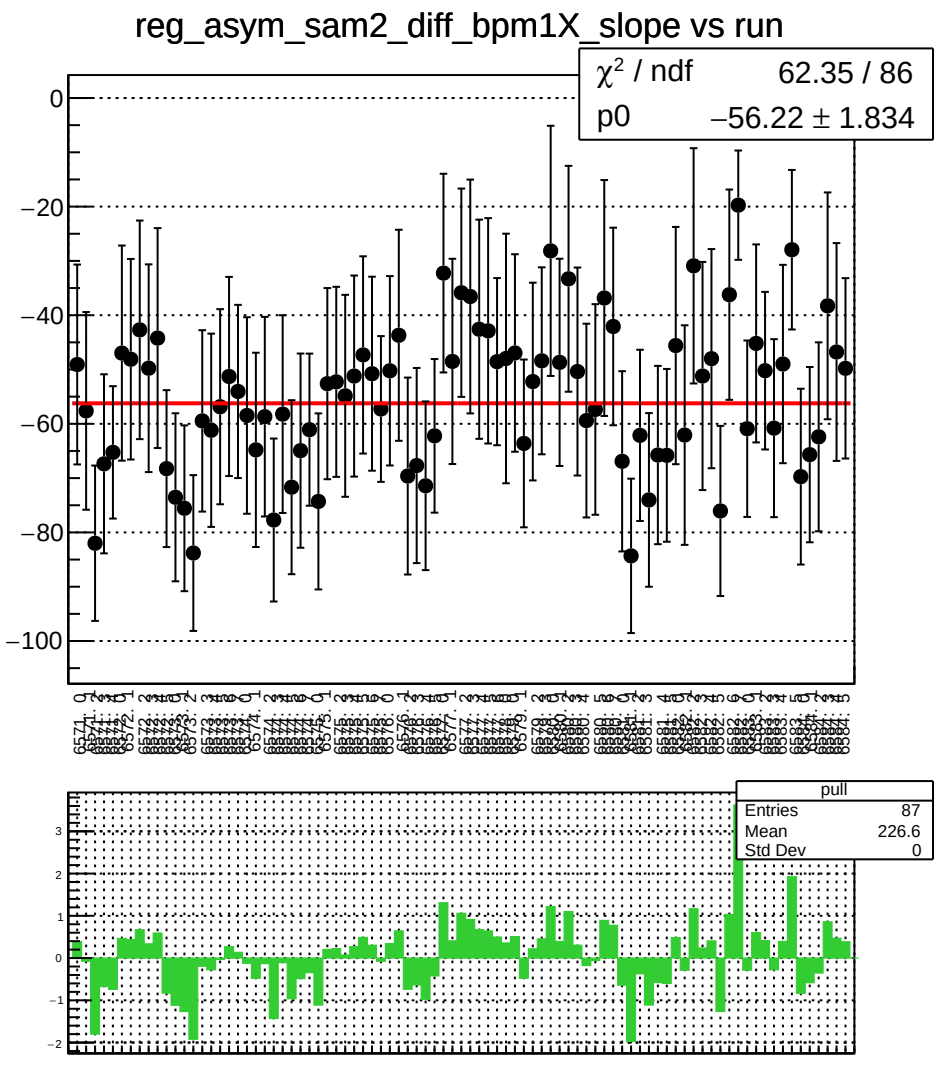

pull1D
Entries 87
Mean −0.1014
Std Dev 1.242

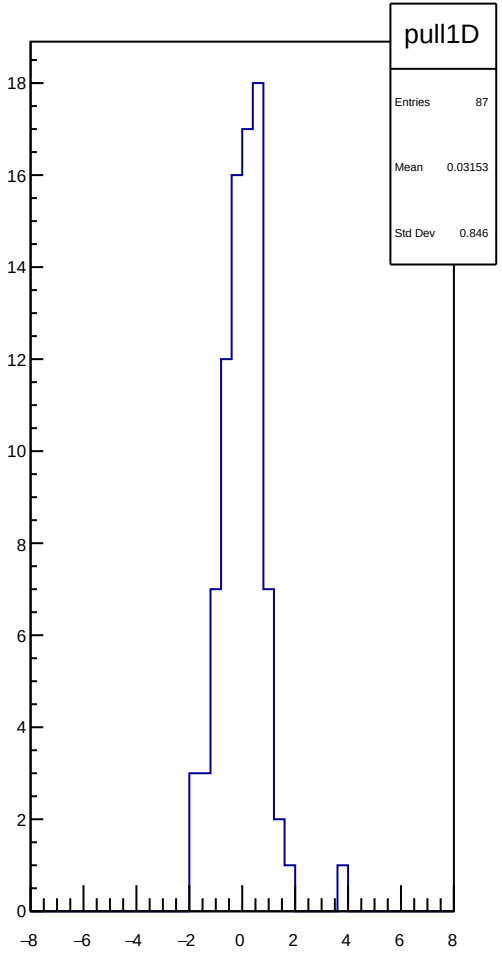

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 70.99 / 86
p0 15.49 ± 0.2811
pull
Entries 87
Mean −189
Std Dev 0

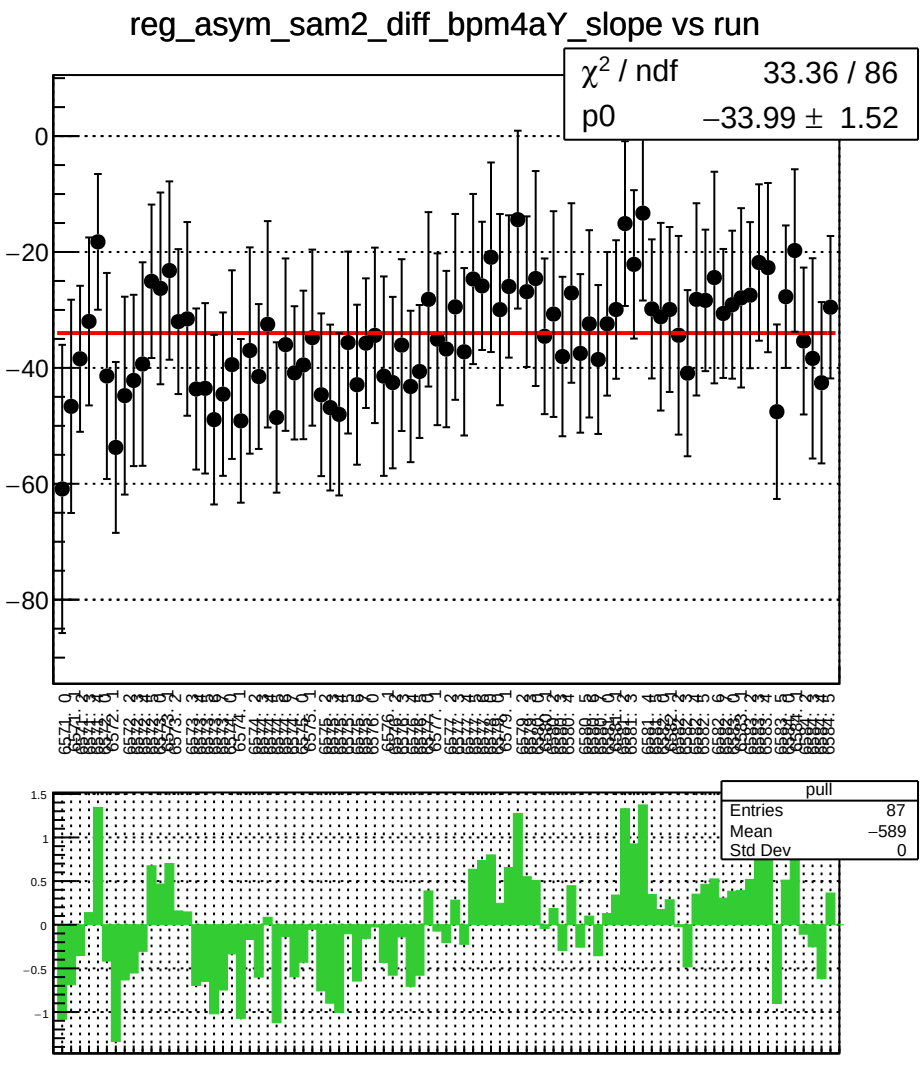

pull1D
Entries 87
Mean 0.01883
Std Dev 0.9031

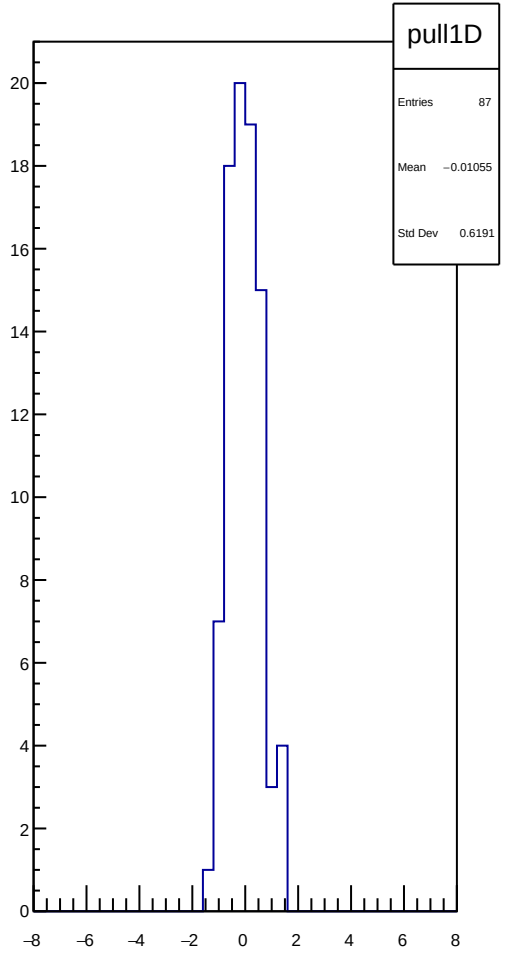

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 79 / 86
p0 0.4824 ± 0.01262
pull
Entries 87
Mean 182.5
Std Dev 0

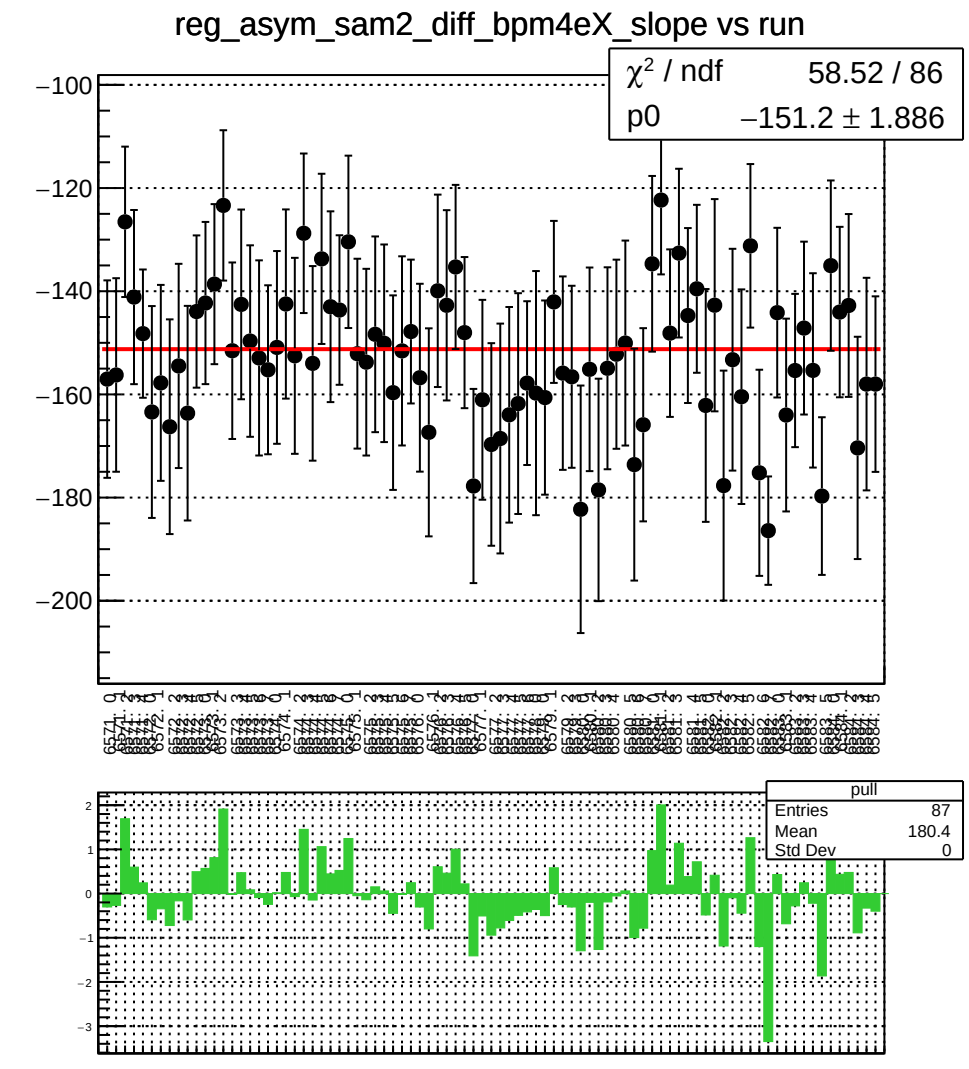

pull1D
Entries 87
Mean 0.09076
Std Dev 0.9486

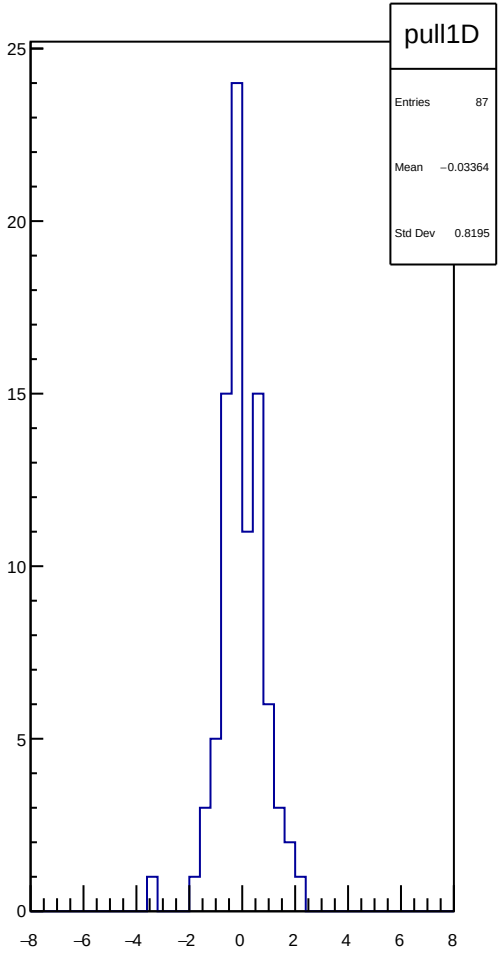

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 62.35 / 86
p0 −56.22 ± 1.834
pull
Entries 87
Mean 226.6
Std Dev 0

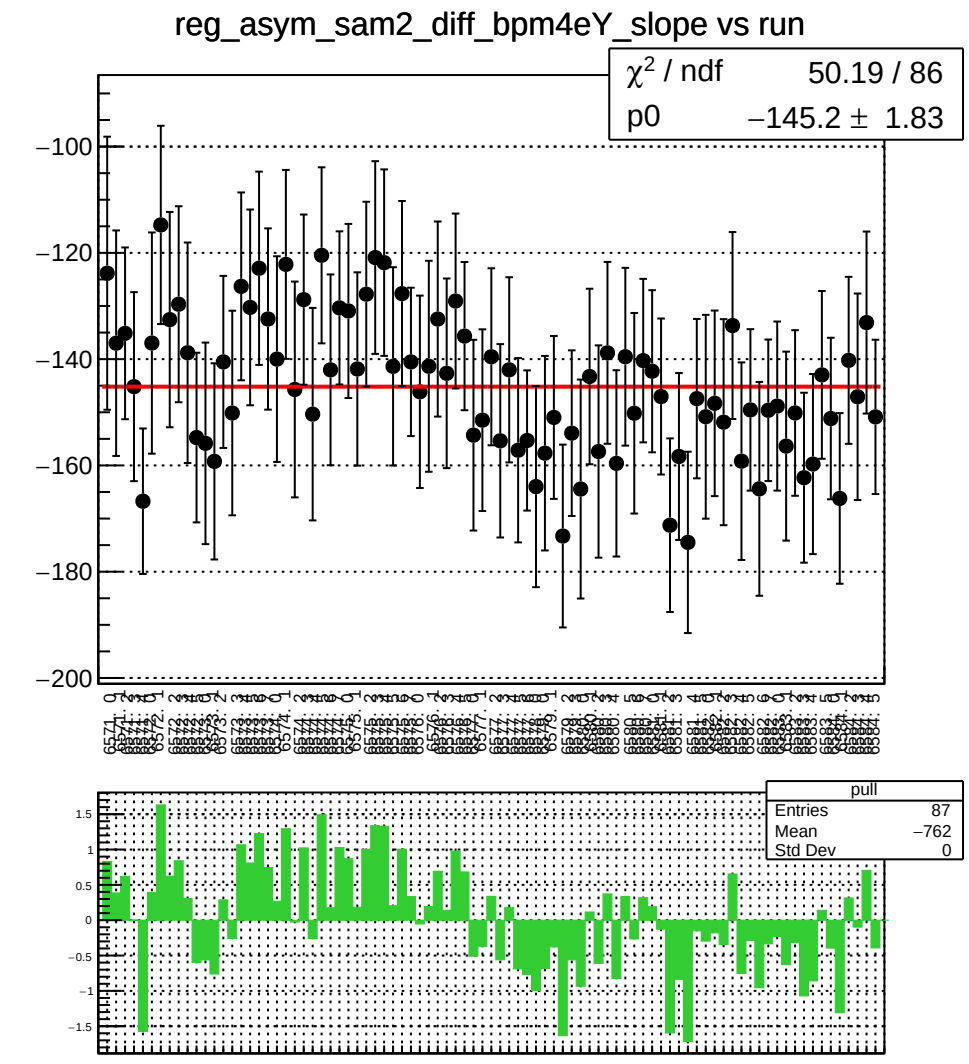

pull1D
Entries 87
Mean 0.03153
Std Dev 0.846

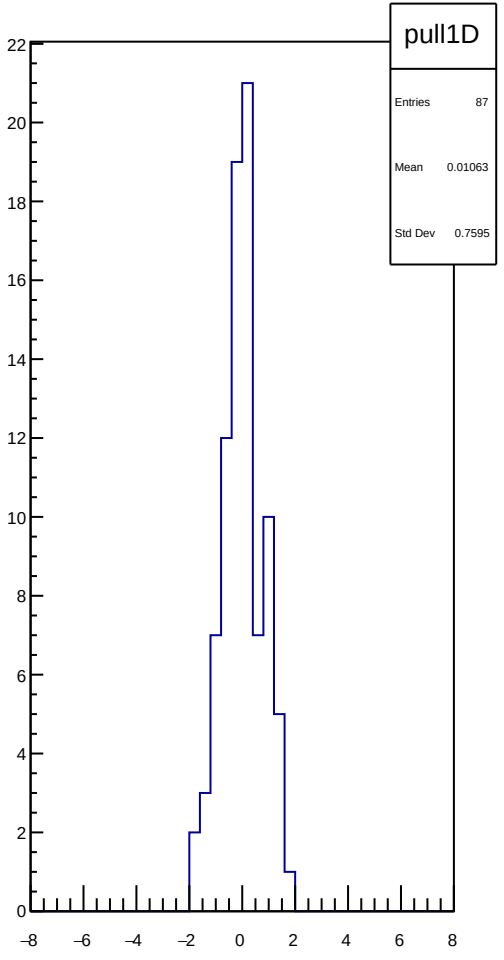

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 33.36 / 86
p0 −33.99 ± 1.52
0
−20
−40
−60
−80
pull
Entries 87
Mean −589
Std Dev 0
1.5
1
0.5
0
−0.5
−1

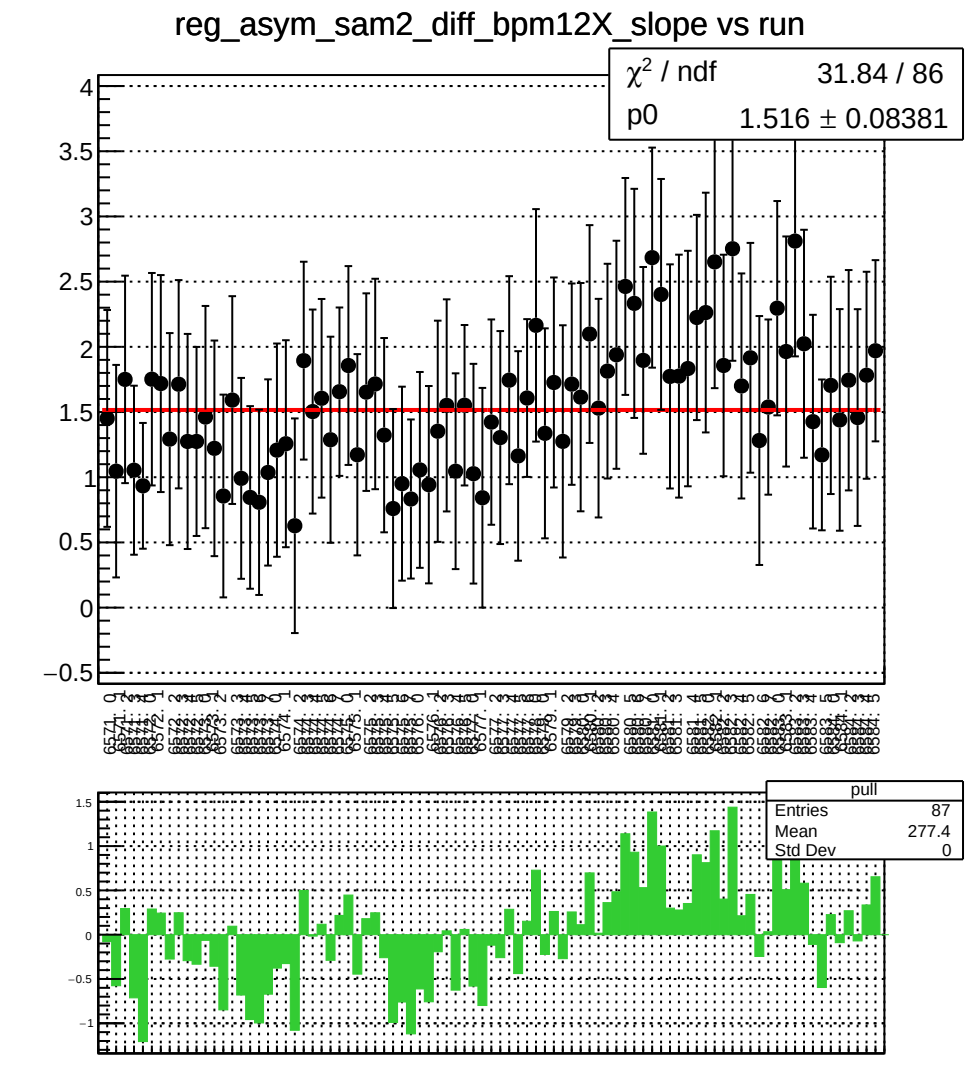

pull1D
Entries 87
Mean −0.01055
Std Dev 0.6191
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

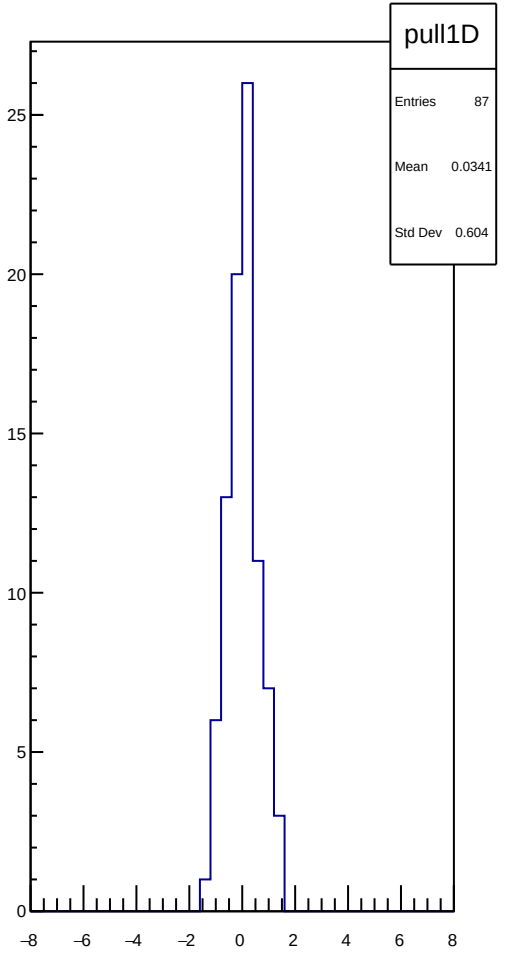

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 58.52 / 86
p0 −151.2 ± 1.886
−100
−120
−140
−160
−180
−200
pull
Entries 87
Mean 180.4
Std Dev 0
2
1
0
−1
−2
−3

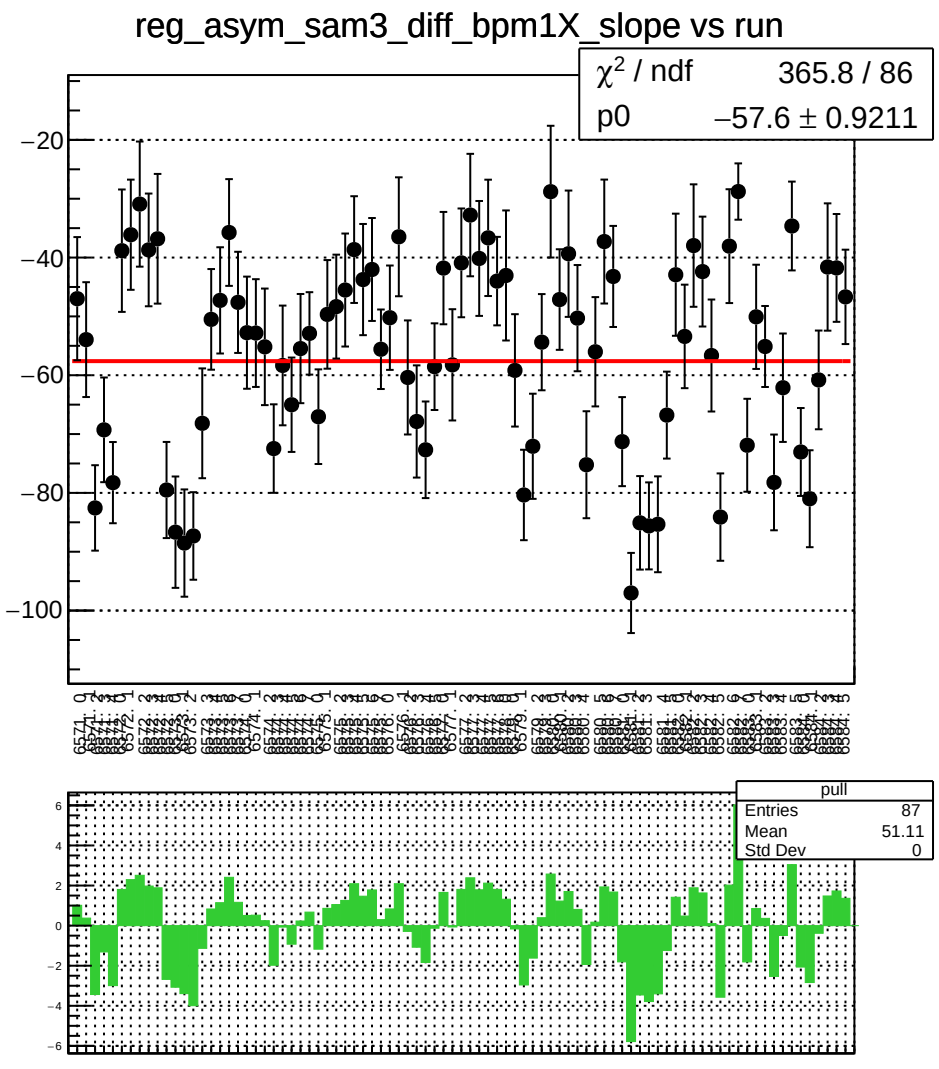

pull1D
Entries 87
Mean −0.03364
Std Dev 0.8195
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

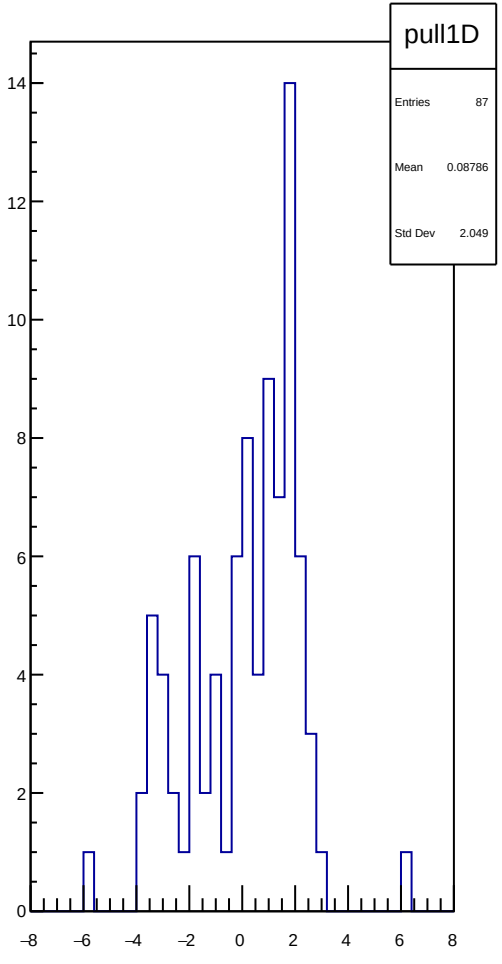

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 50.19 / 86
p0 −145.2 ± 1.83
−100
−120
−140
−160
−180
−200
pull
Entries 87
Mean −762
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

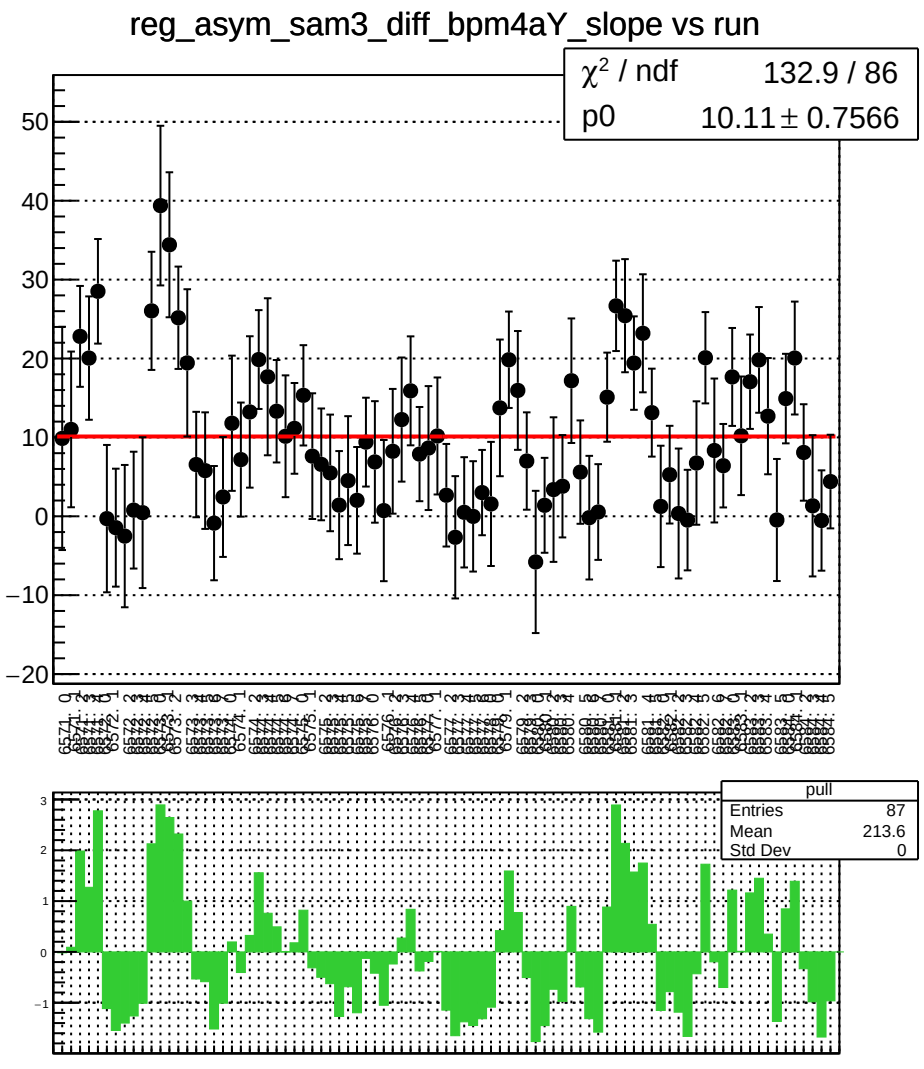

pull1D
Entries 87
Mean 0.01063
Std Dev 0.7595
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

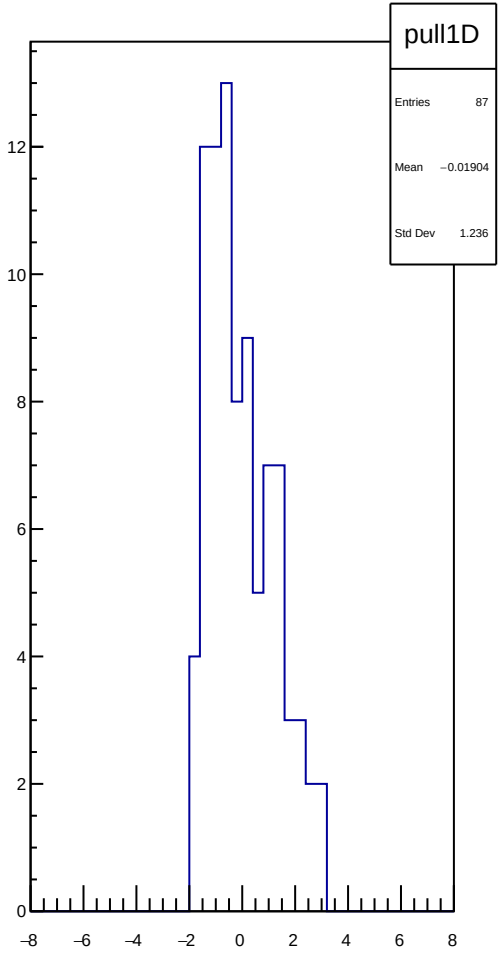

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 31.84 / 86
p0 1.516 ± 0.08381
pull
Entries 87
Mean 277.4
Std Dev 0

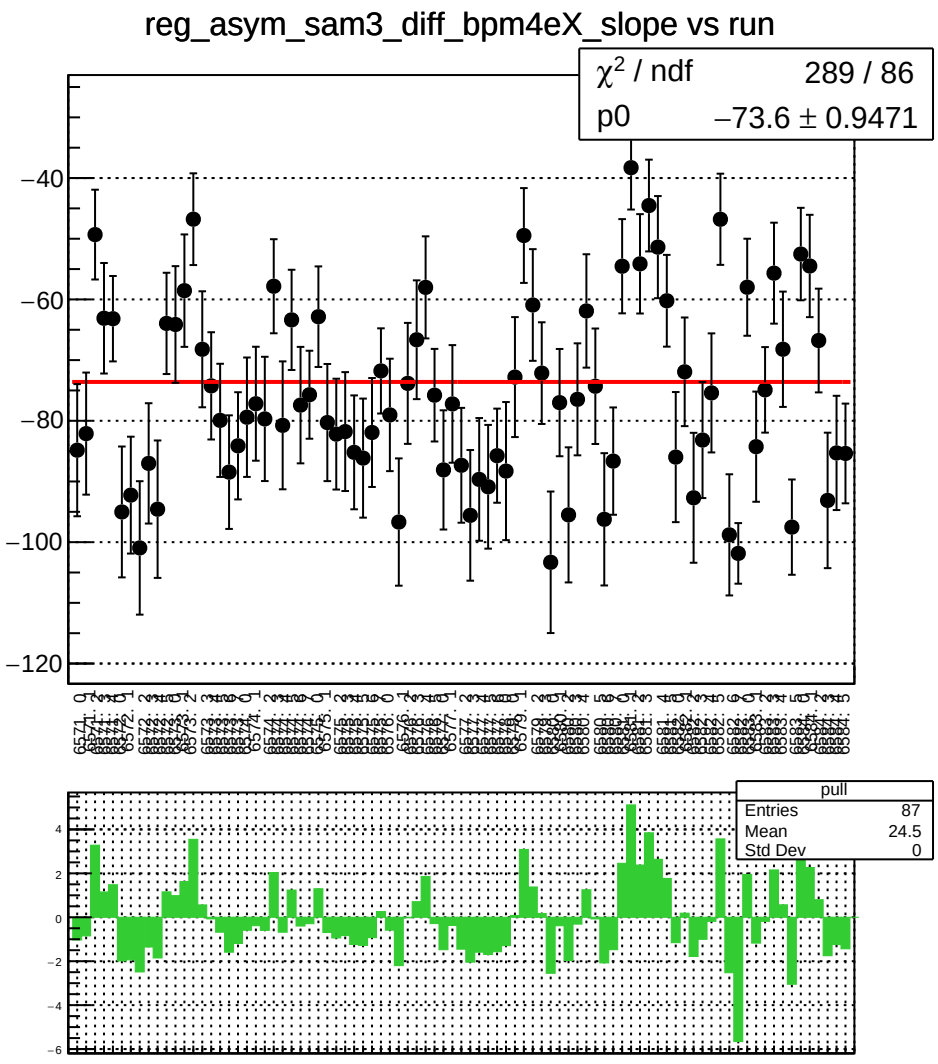

pull1D
Entries 87
Mean 0.0341
Std Dev 0.604

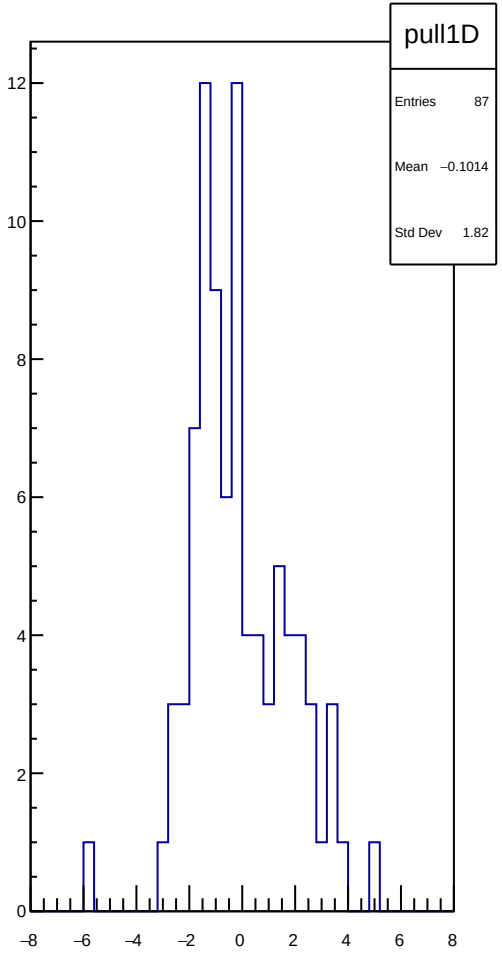

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 365.8 / 86
p0 −57.6 ± 0.9211
pull
Entries 87
Mean 51.11
Std Dev 0

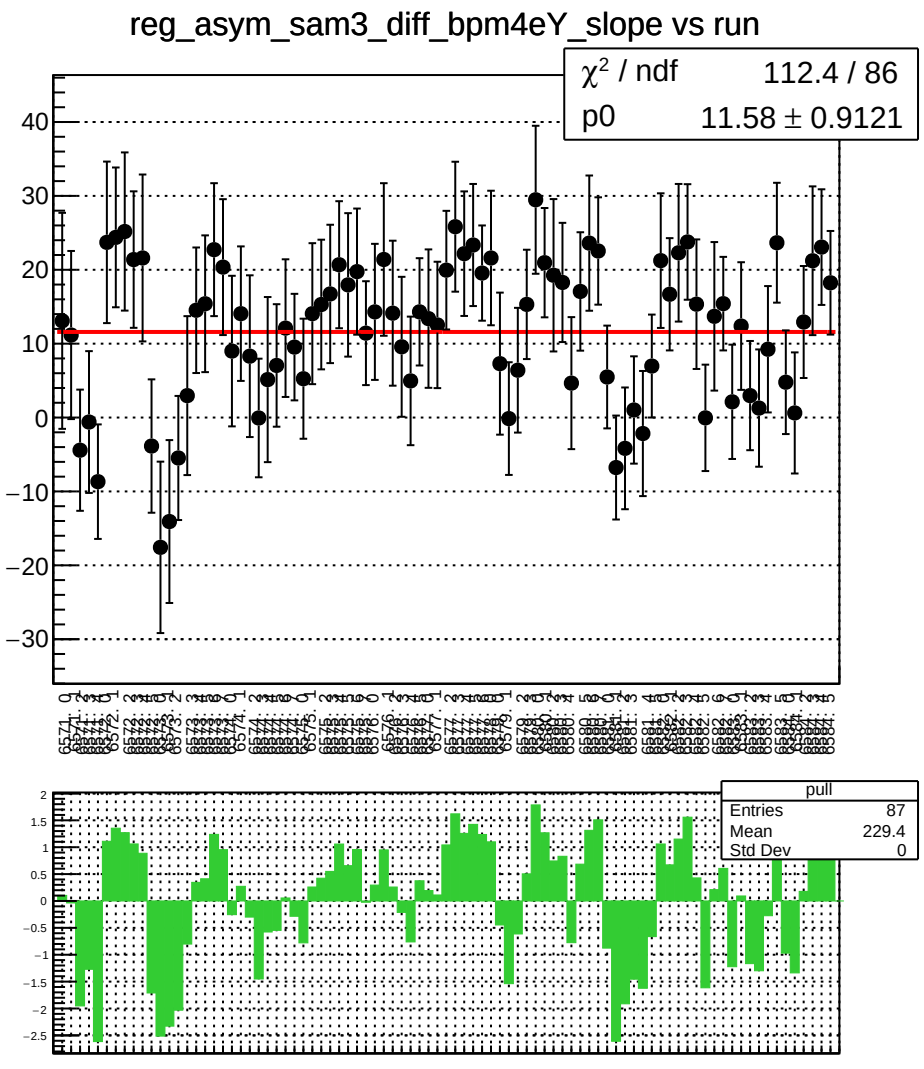

pull1D
Entries 87
Mean 0.08786
Std Dev 2.049

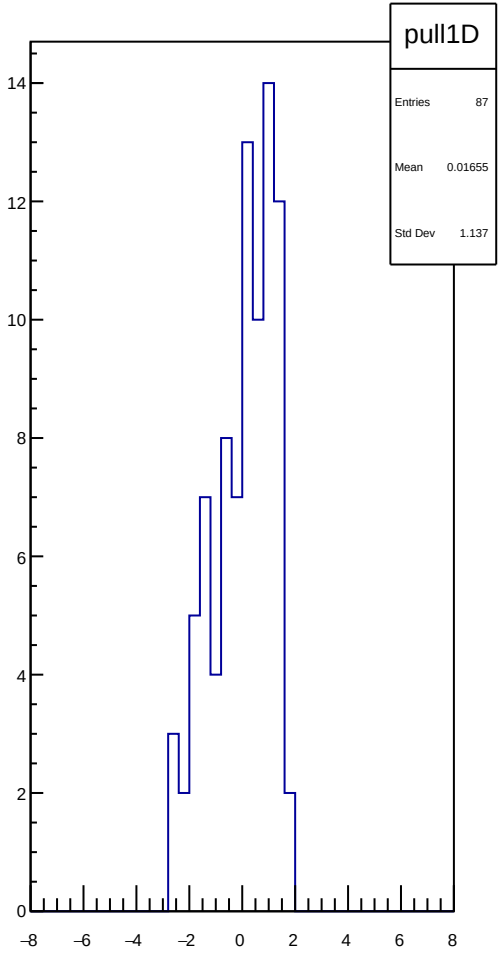

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 132.9 / 86
p0 10.11 ± 0.7566
pull
Entries 87
Mean 213.6
Std Dev 0

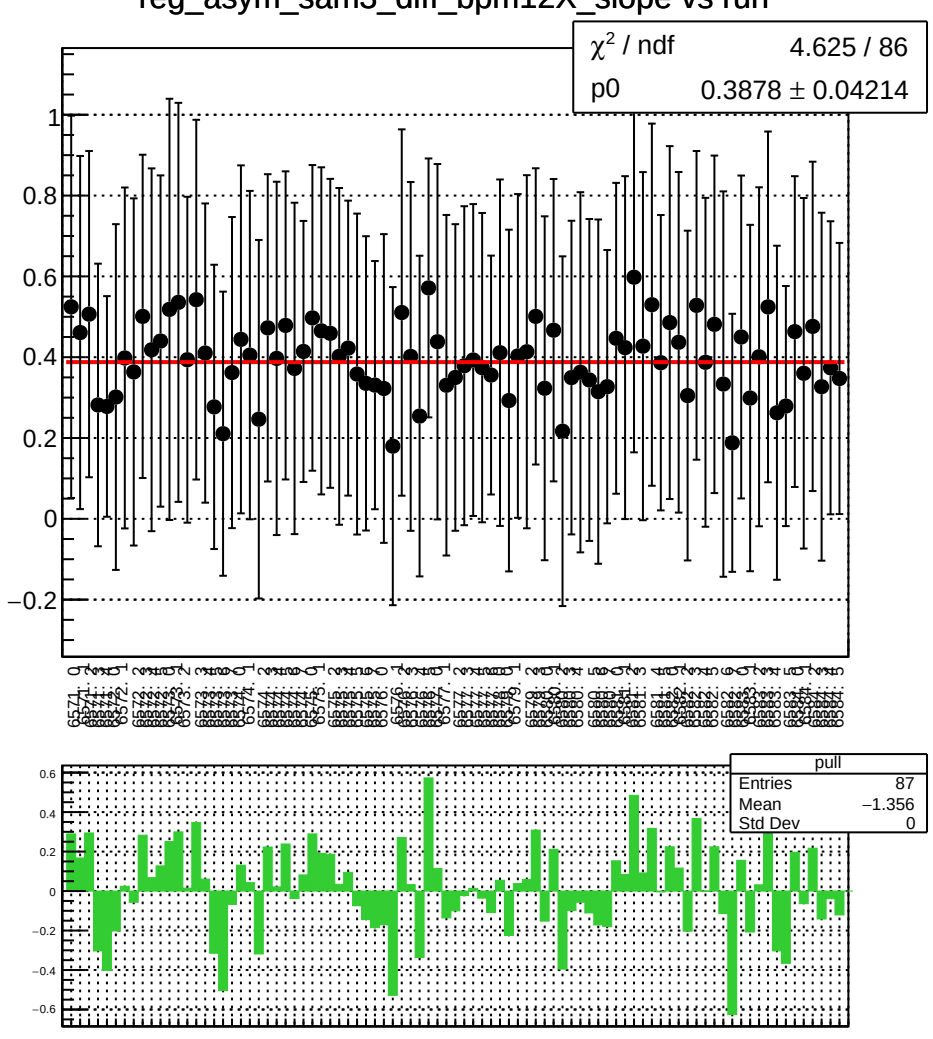

pull1D
Entries 87
Mean −0.01904
Std Dev 1.236

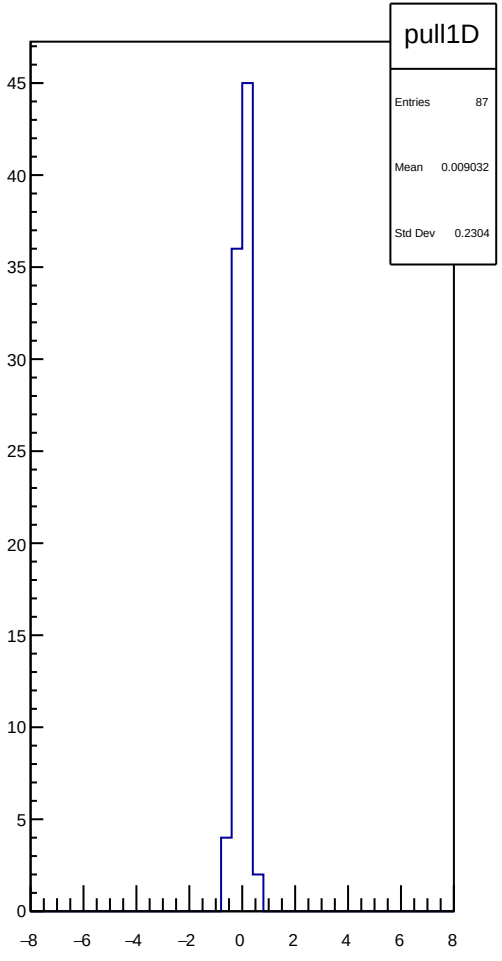

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 289 / 86
p0 −73.6 ± 0.9471
pull
Entries 87
Mean 24.5
Std Dev 0

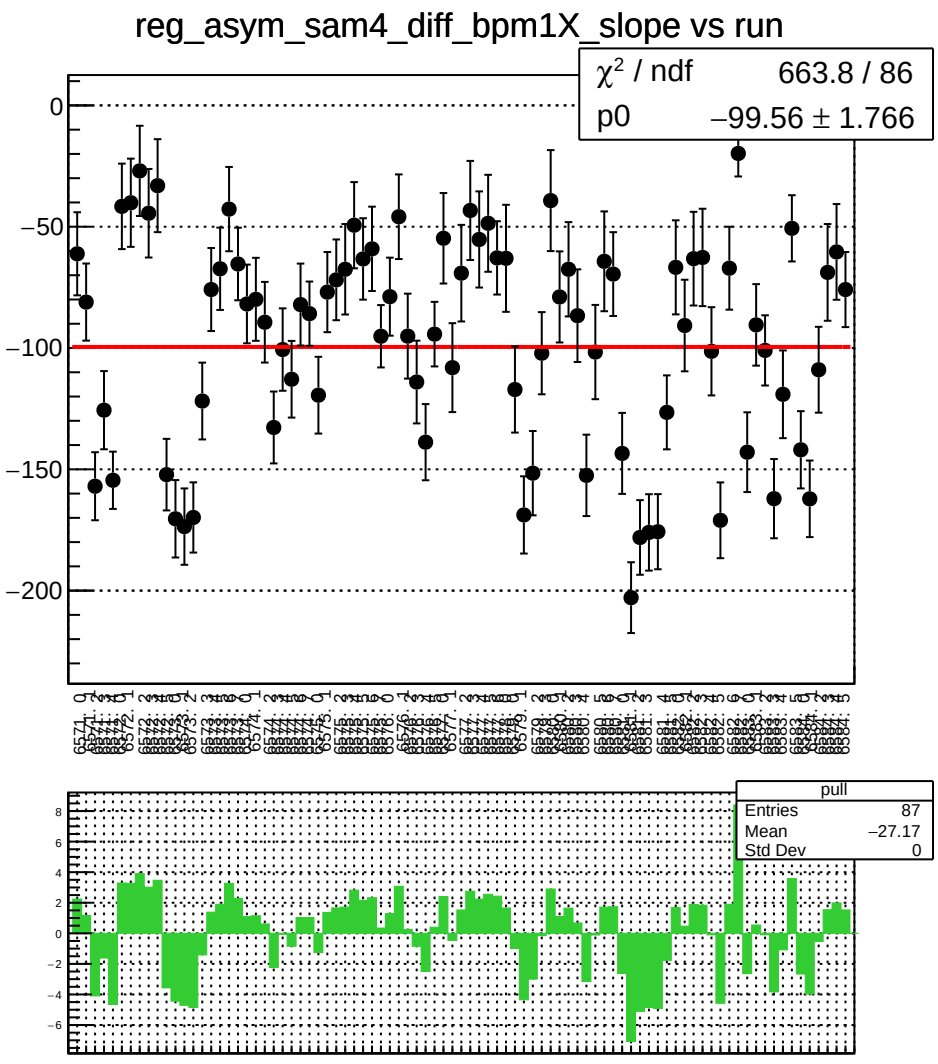

pull1D
Entries 87
Mean −0.1014
Std Dev 1.82

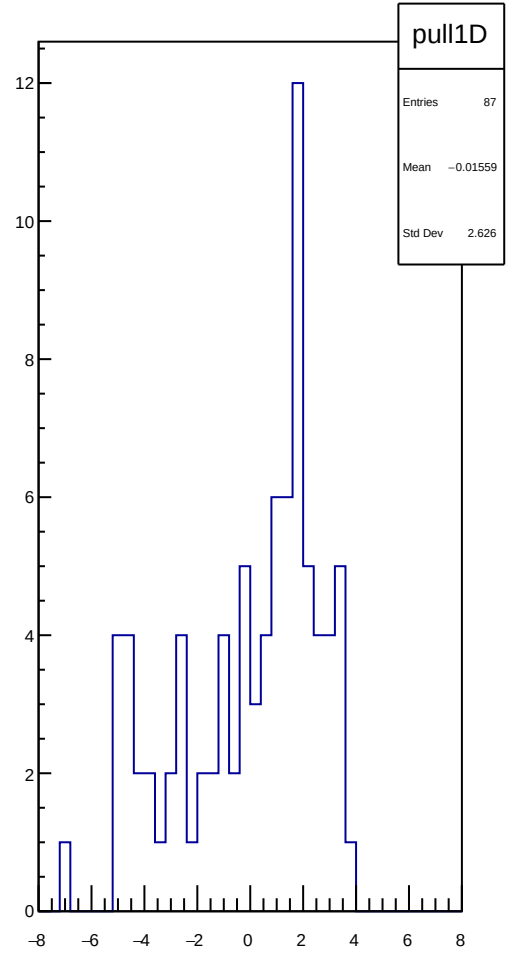

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 112.4 / 86
p0 11.58 ± 0.9121
pull
Entries 87
Mean 229.4
Std Dev 0

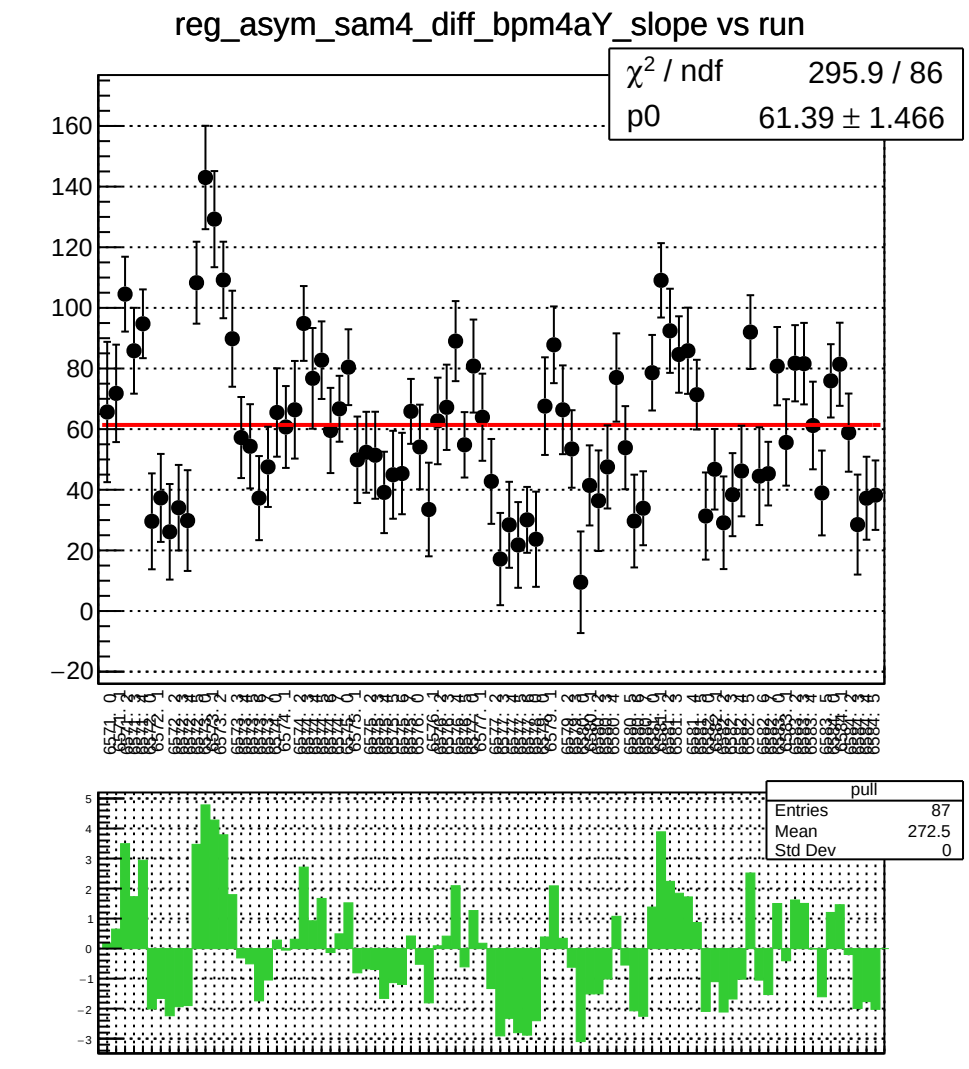

pull1D
Entries 87
Mean 0.01655
Std Dev 1.137

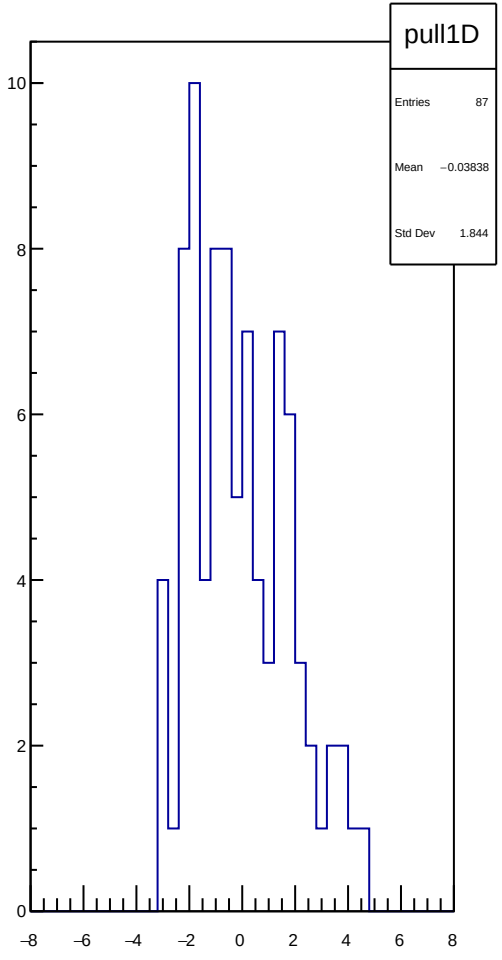

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.625 / 86
p0 0.3878 ± 0.04214
pull
Entries 87
Mean −1.356
Std Dev 0

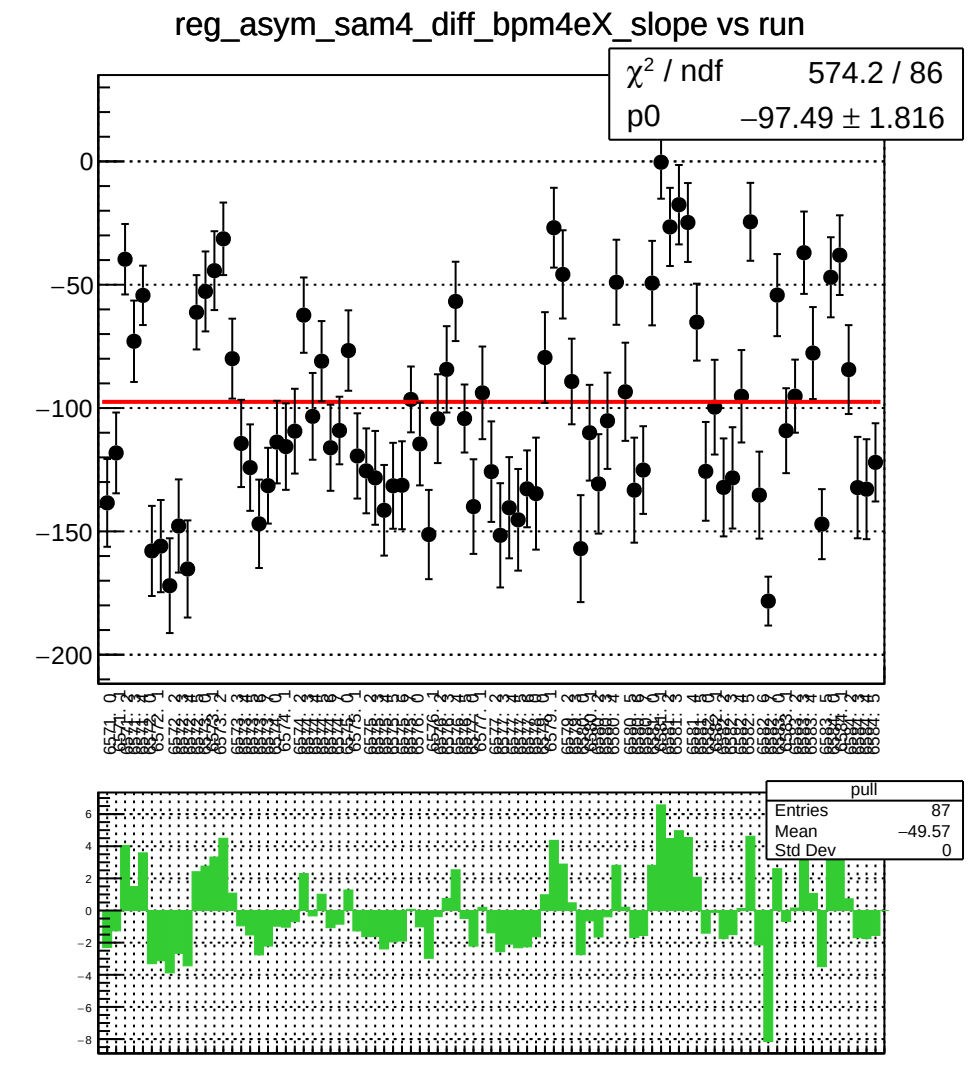

pull1D
Entries 87
Mean 0.009032
Std Dev 0.2304

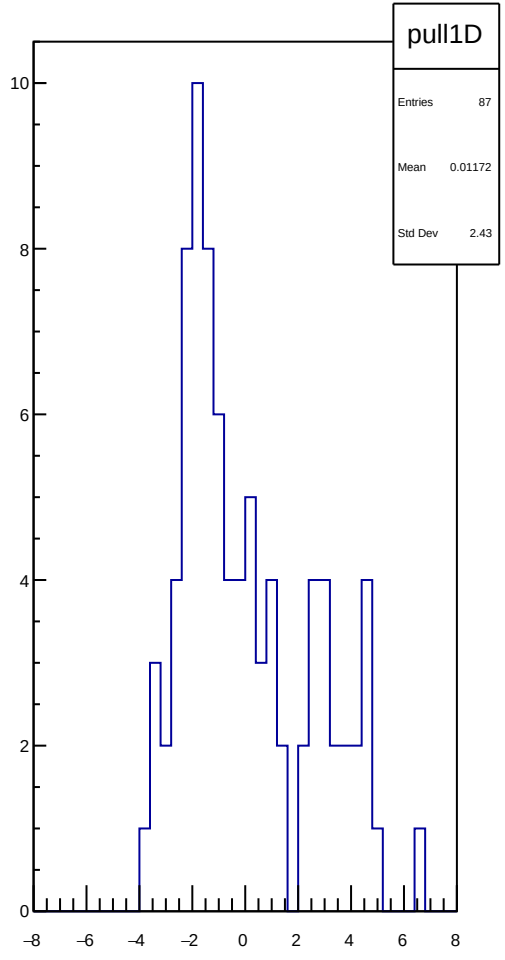

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 663.8 / 86
p0 −99.56 ± 1.766
pull
Entries 87
Mean −27.17
Std Dev 0

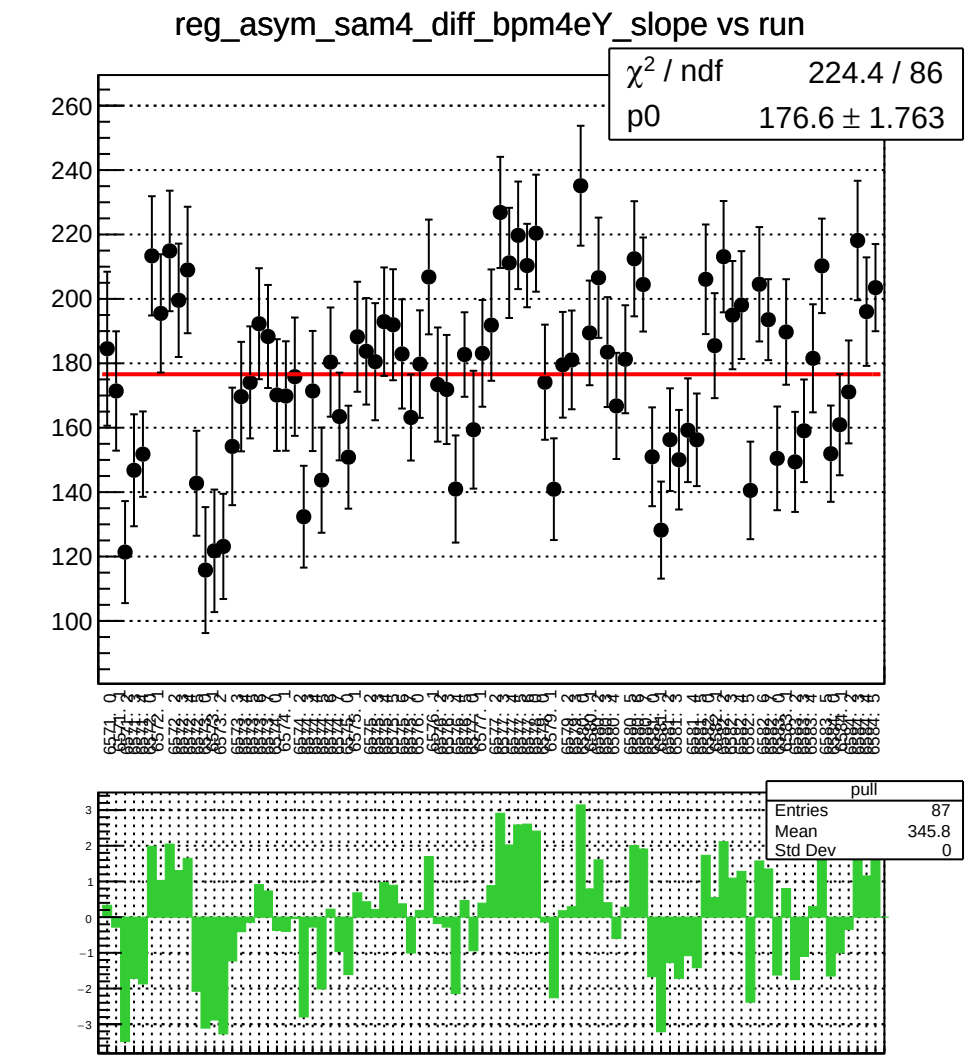

pull1D
Entries 87
Mean −0.01559
Std Dev 2.626

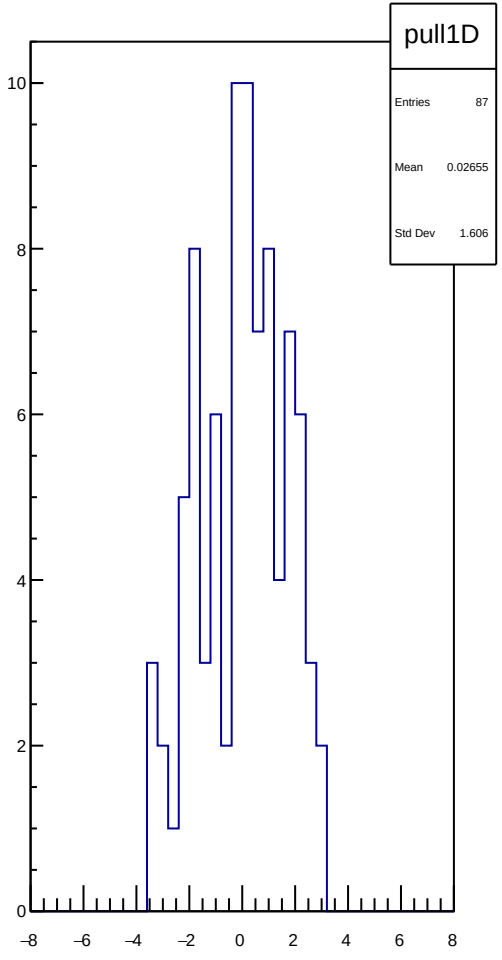

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 295.9 / 86
p0 61.39 ± 1.466
pull
Entries 87
Mean 272.5
Std Dev 0

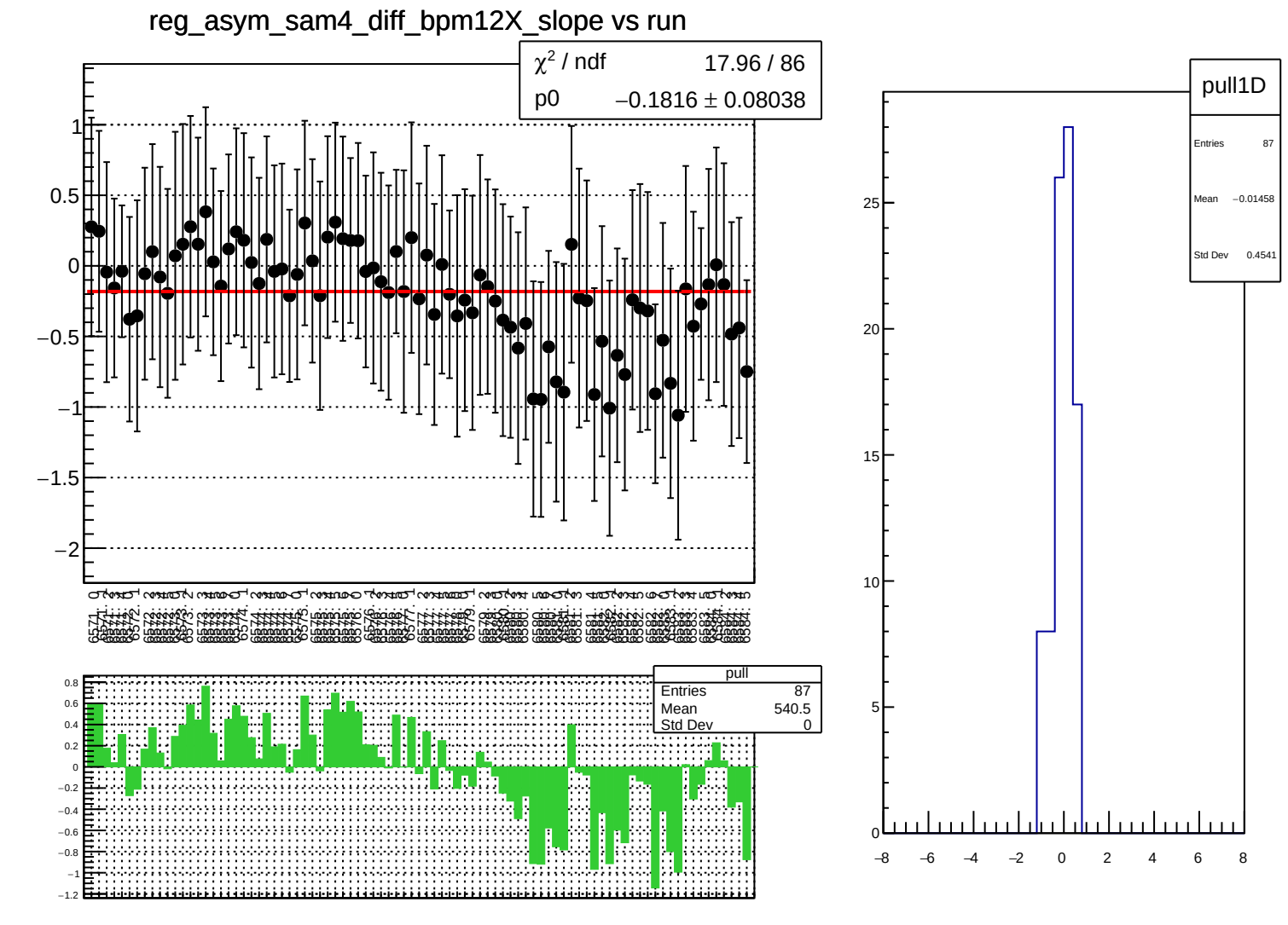

pull1D
Entries 87
Mean −0.03838
Std Dev 1.844

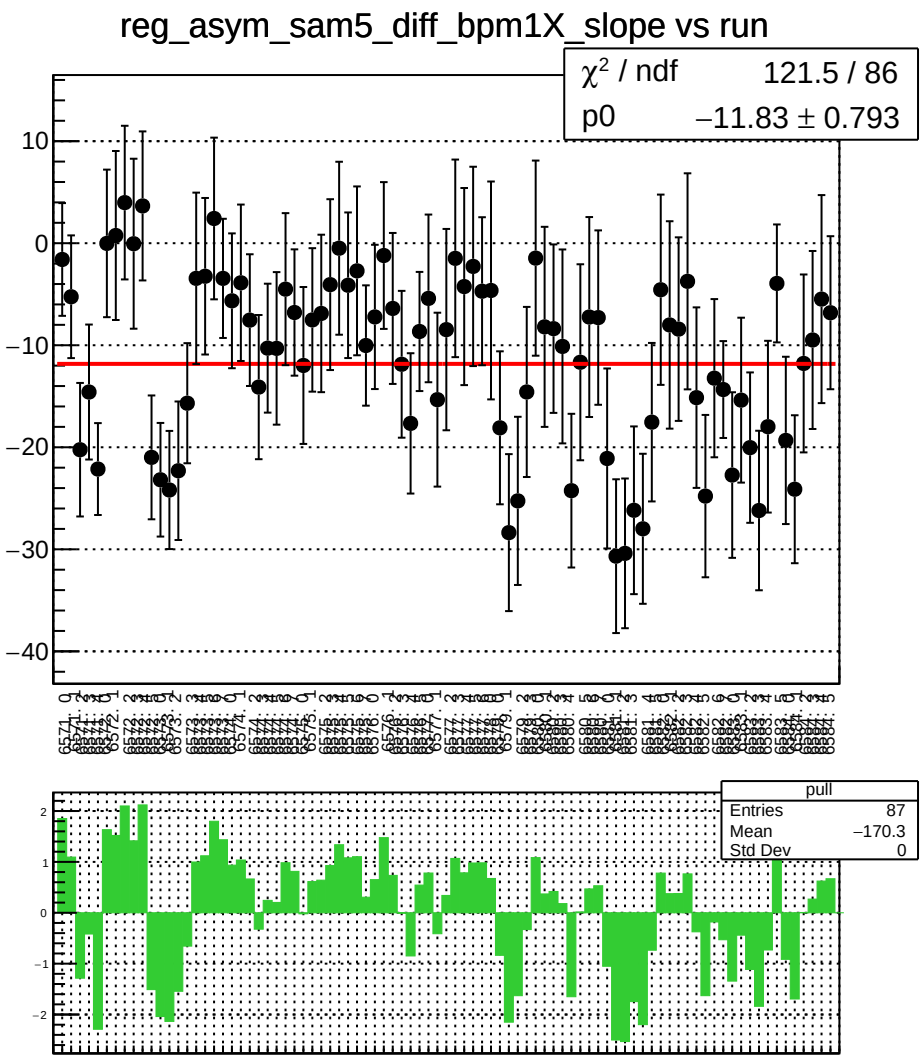

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 574.2 / 86
p0 −97.49 ± 1.816
0
−50
−100
−150
−200
pull
Entries 87
Mean −49.57
Std Dev 0
6
4
2
0
−2
−4
−6
−8

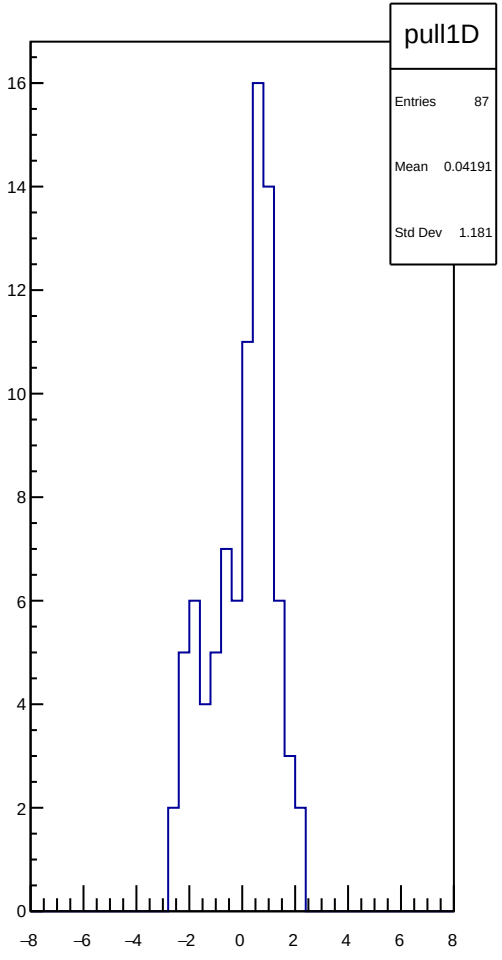

pull1D
Entries 87
Mean 0.01172
Std Dev 2.43
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

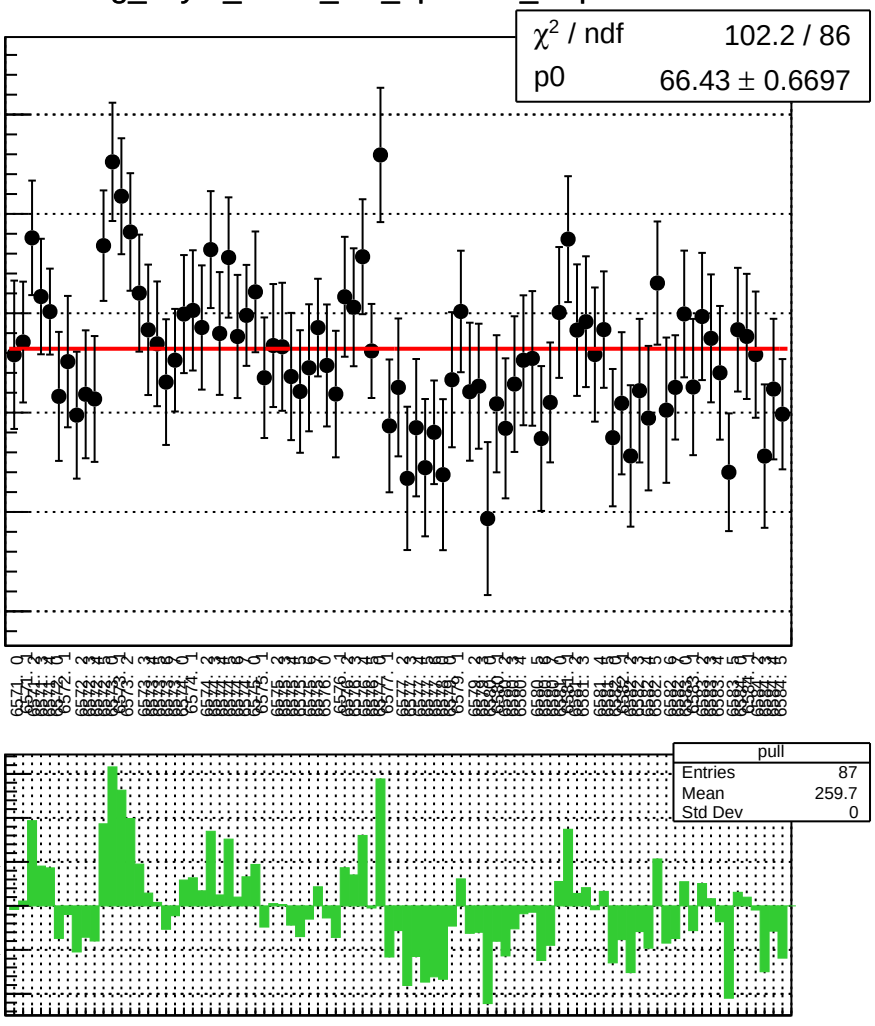

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 224.4 / 86
p0 176.6 ± 1.763
pull
Entries 87
Mean 345.8
Std Dev 0

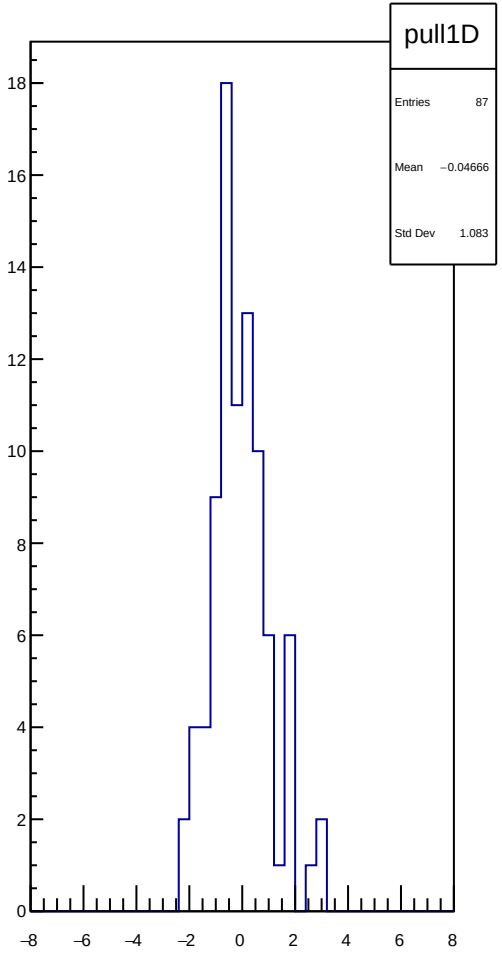

pull1D
Entries 87
Mean 0.02655
Std Dev 1.606

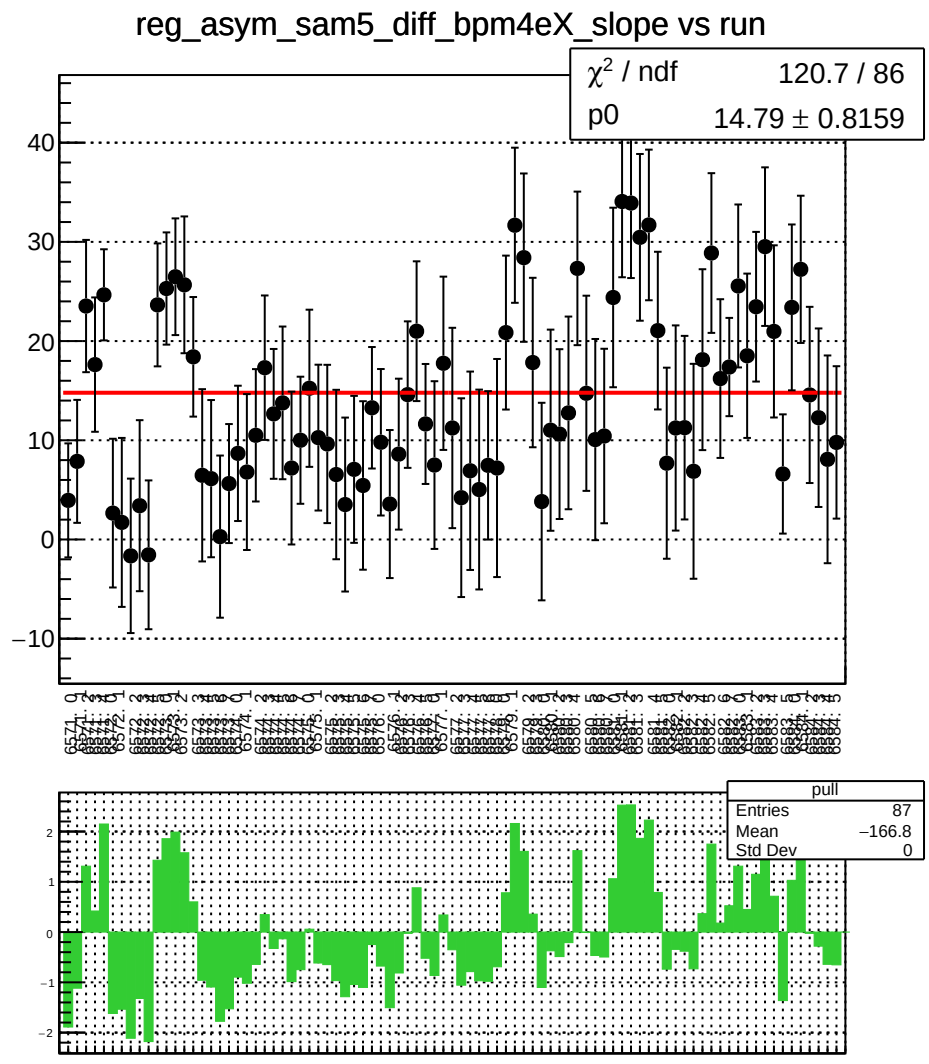

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 17.96 / 86
p0 −0.1816 ± 0.08038
pull
Entries 87
Mean 540.5
Std Dev 0
pull1D
Entries 87
Mean −0.01458
Std Dev 0.4541

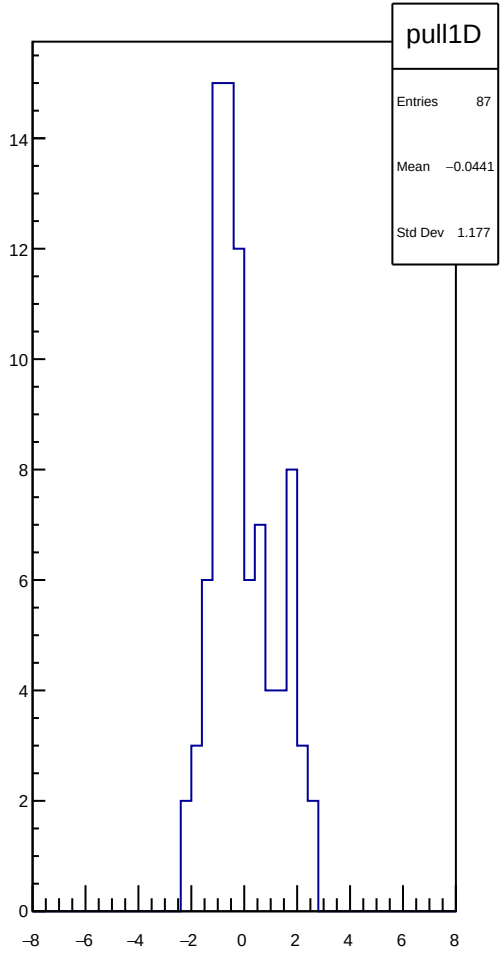

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 121.5 / 86
p0 −11.83 ± 0.793
pull
Entries 87
Mean −170.3
Std Dev 0

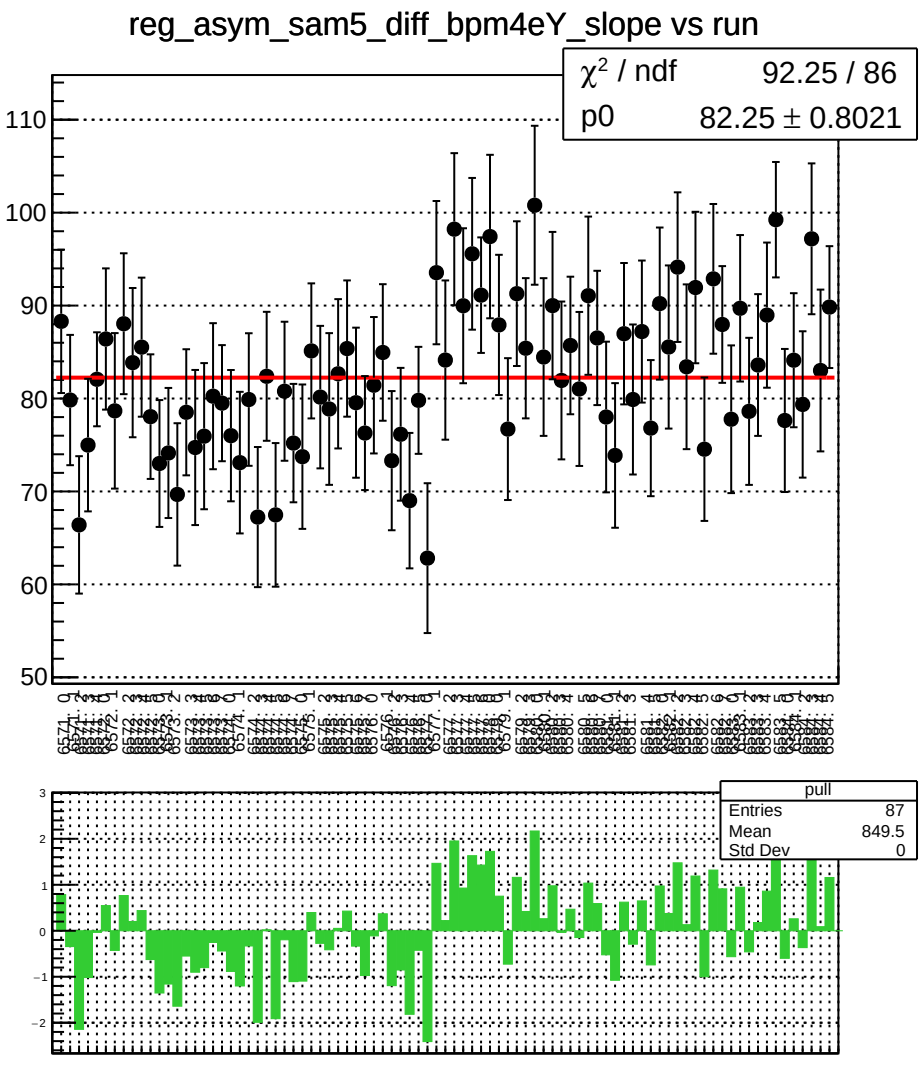

pull1D
Entries 87
Mean 0.04191
Std Dev 1.181

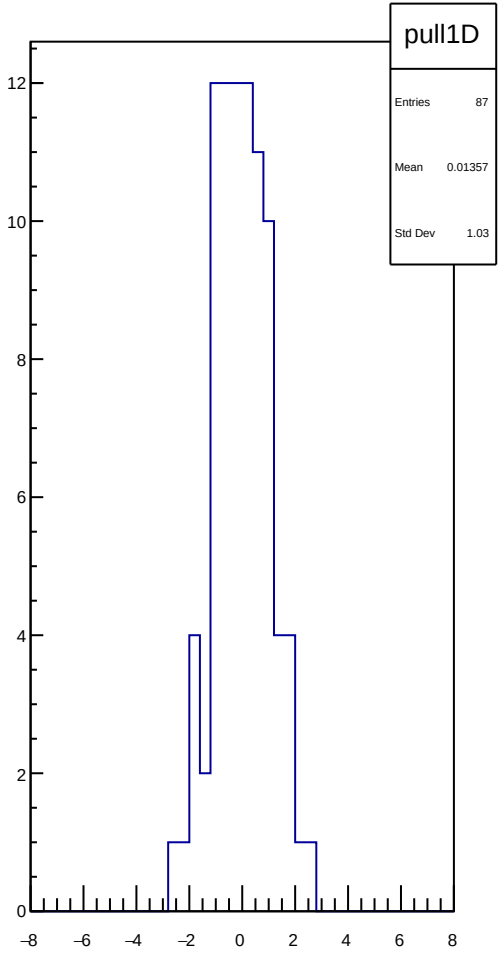

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 102.2 / 86
p0 66.43 ± 0.6697
pull
Entries 87
Mean 259.7
Std Dev 0

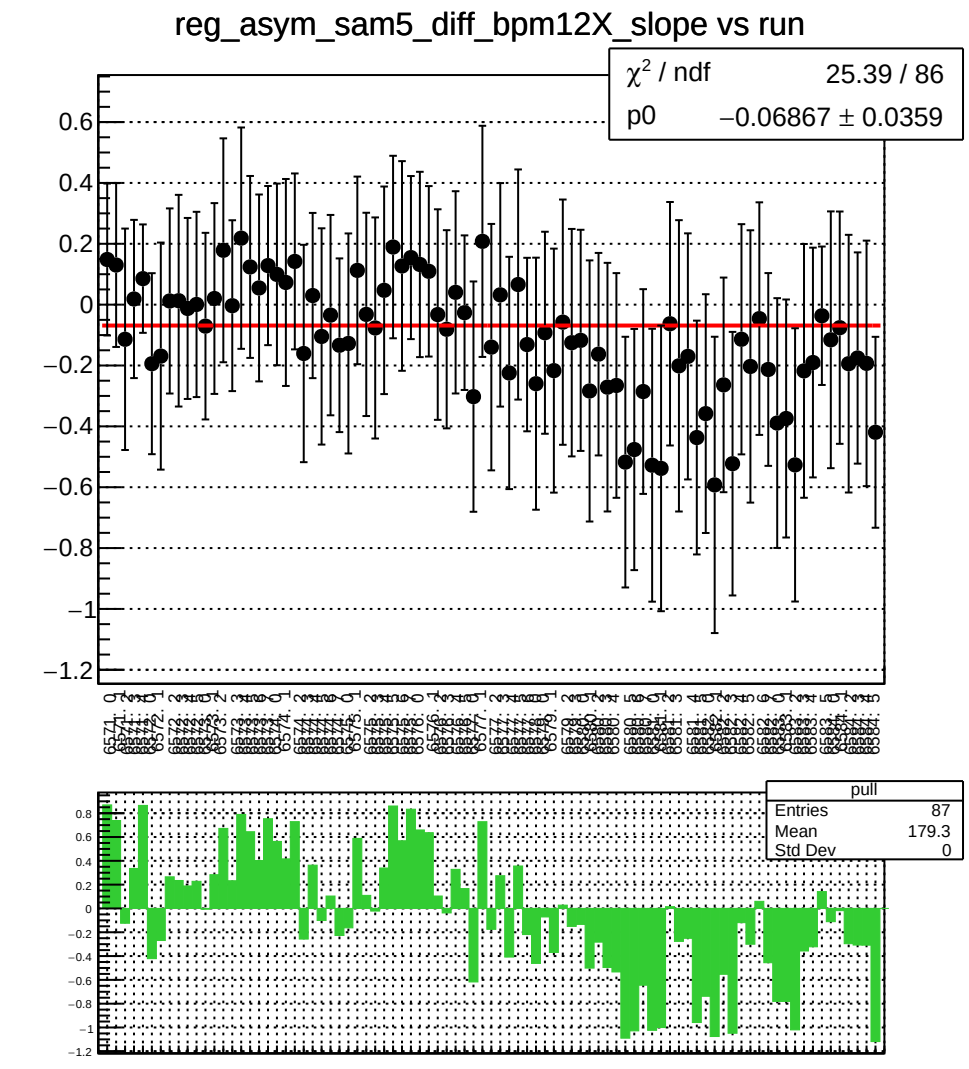

pull1D
Entries 87
Mean −0.04666
Std Dev 1.083

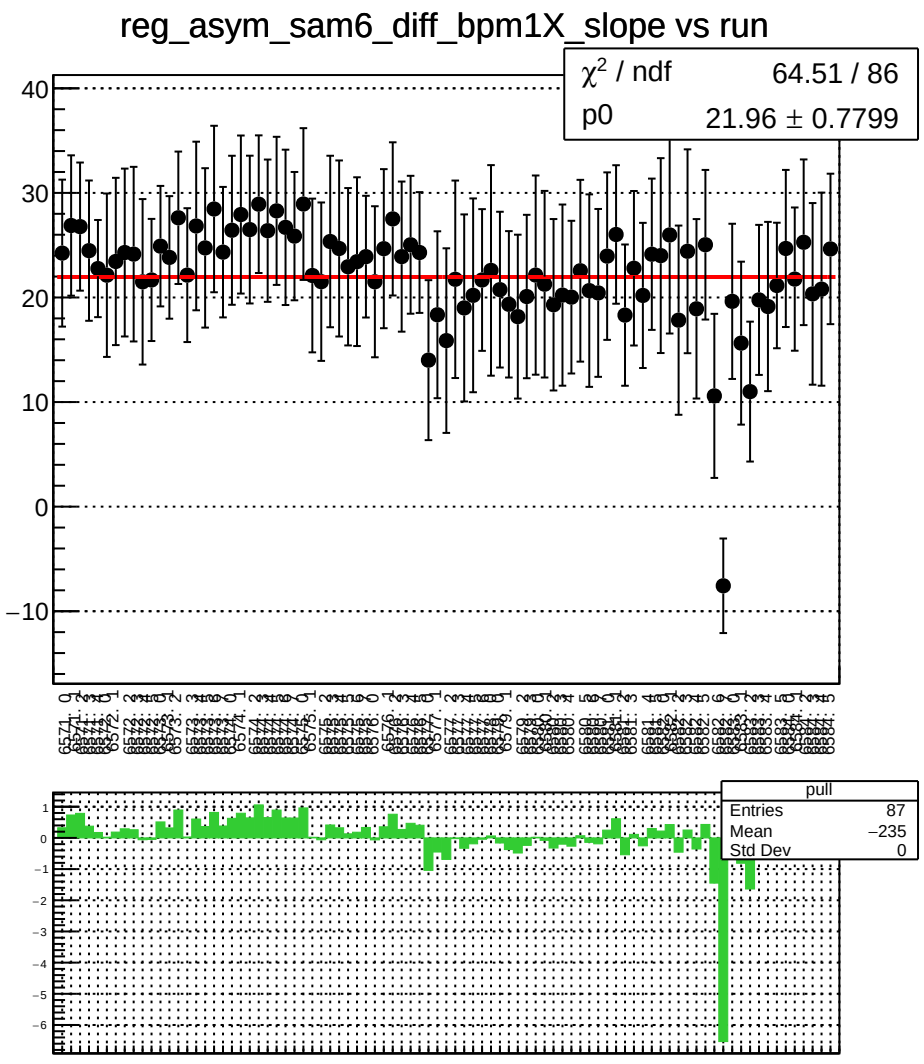

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 120.7 / 86
p0 14.79 ± 0.8159
pull
Entries 87
Mean −166.8
Std Dev 0

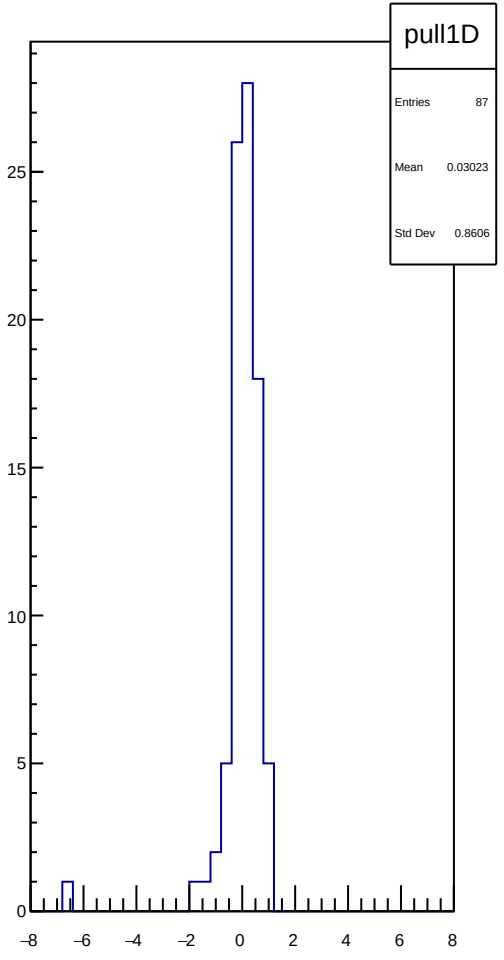

pull1D
Entries 87
Mean −0.0441
Std Dev 1.177

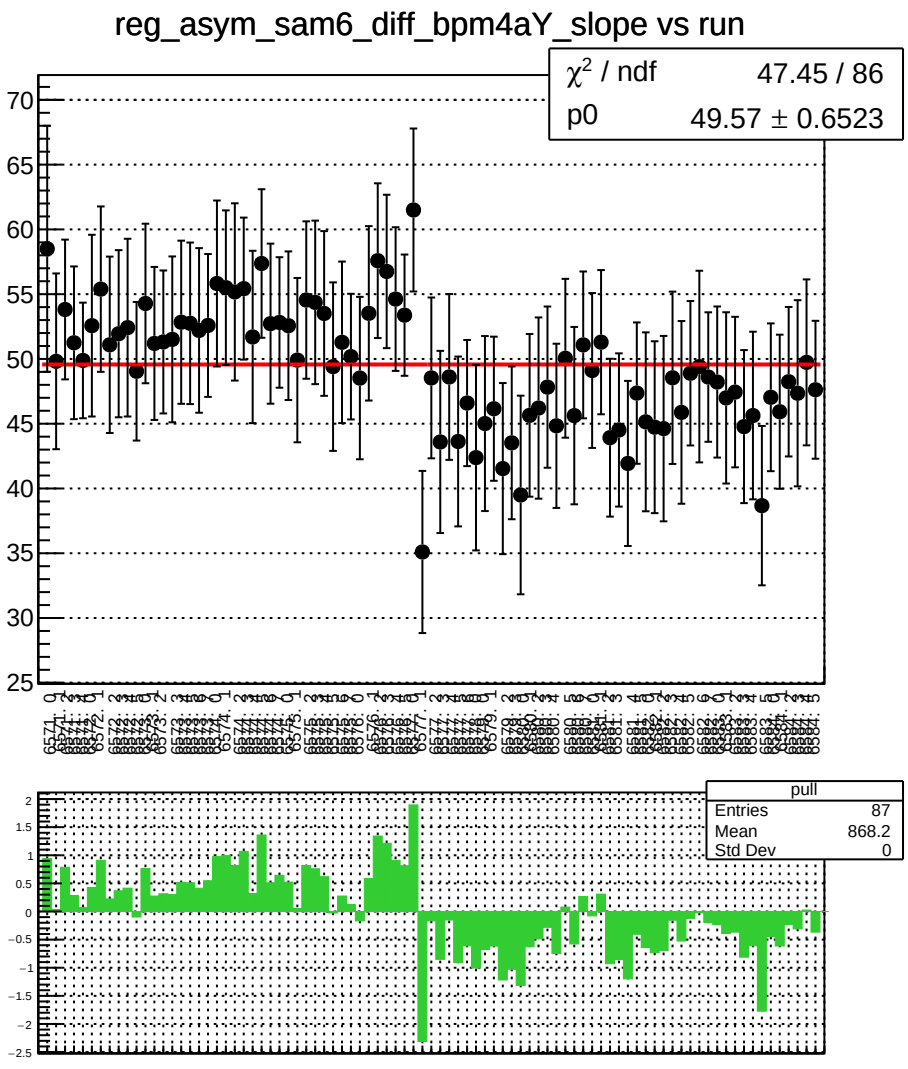

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 92.25 / 86
p0 82.25 ± 0.8021
pull
Entries 87
Mean 849.5
Std Dev 0

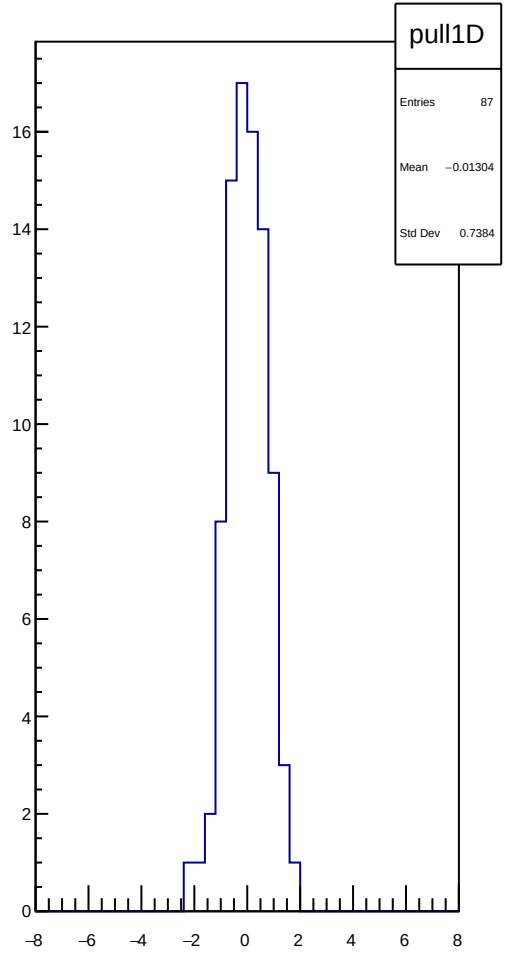

pull1D
Entries 87
Mean 0.01357
Std Dev 1.03

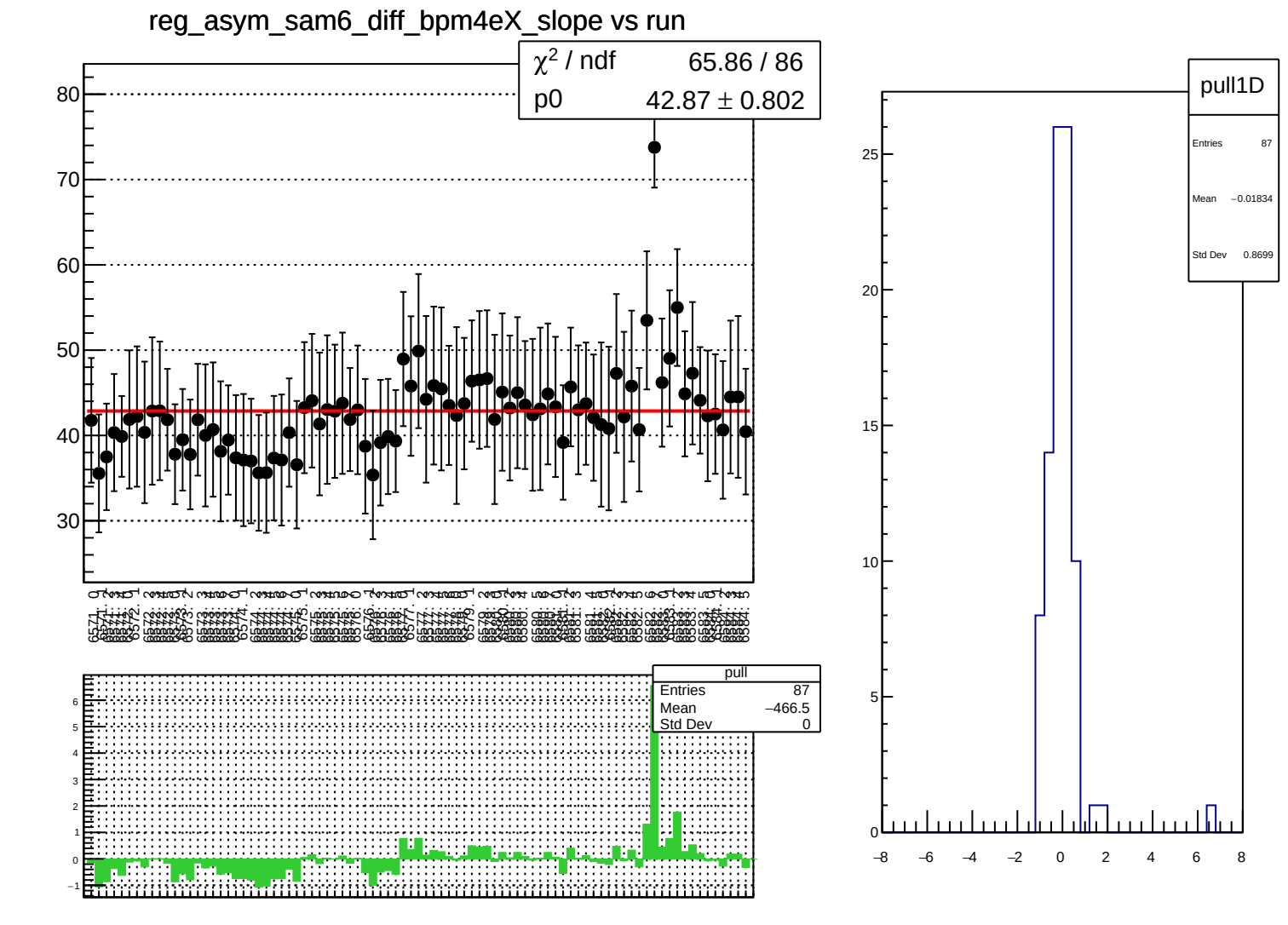

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 25.39 / 86
p0 −0.06867 ± 0.0359
pull
Entries 87
Mean 179.3
Std Dev 0
pull1D
Entries 87
Mean −0.06387
Std Dev 0.5364

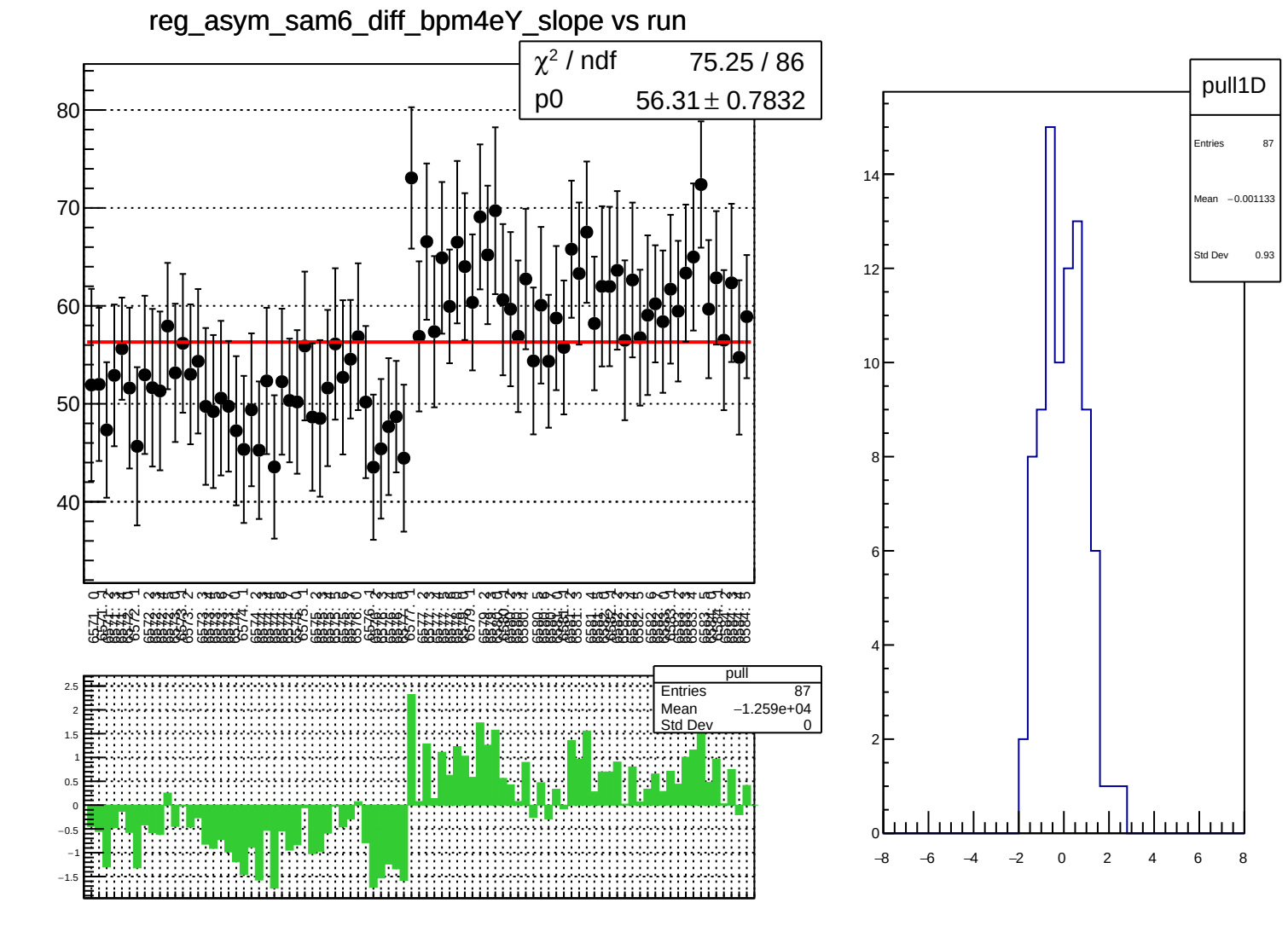

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 64.51 / 86
p0 21.96 ± 0.7799
pull
Entries 87
Mean −235
Std Dev 0

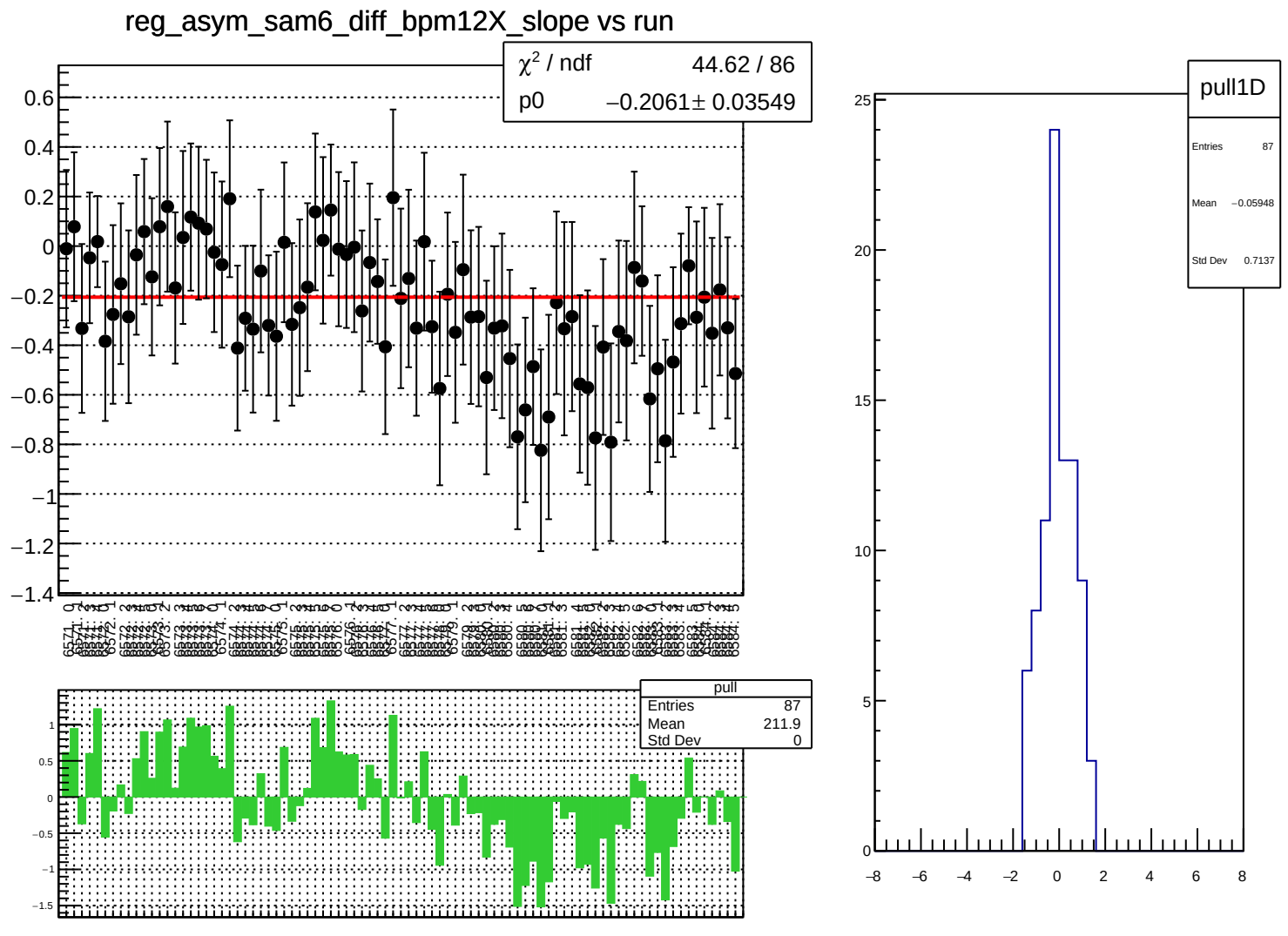

pull1D
Entries 87
Mean 0.03023
Std Dev 0.8606

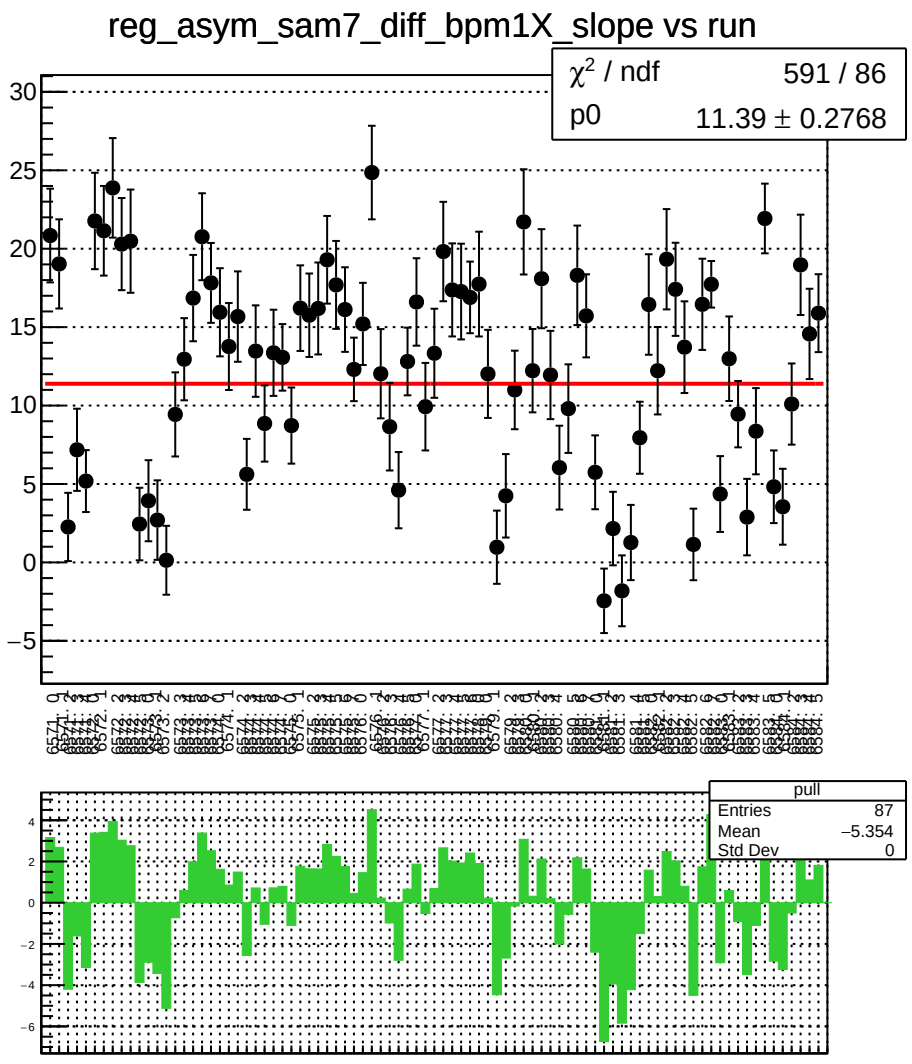

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 47.45 / 86
p0 49.57 ± 0.6523
pull
Entries 87
Mean 868.2
Std Dev 0

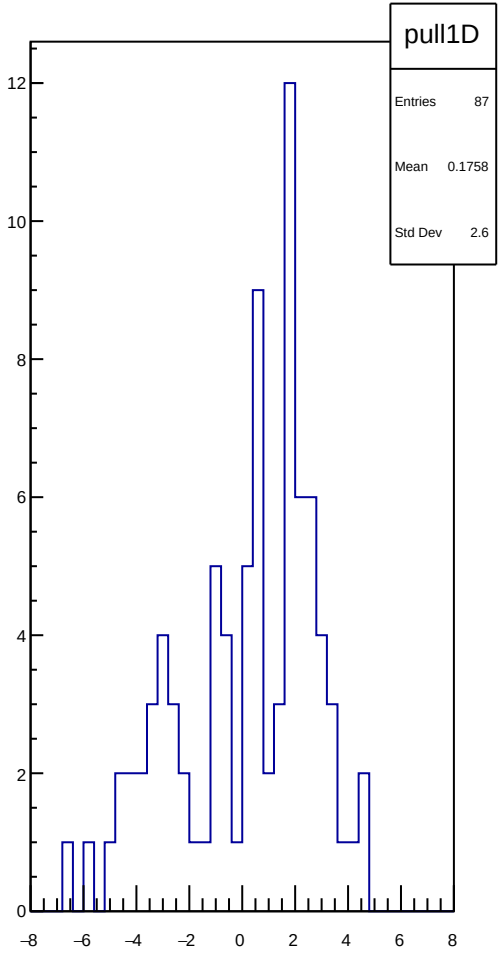

pull1D
Entries 87
Mean −0.01304
Std Dev 0.7384

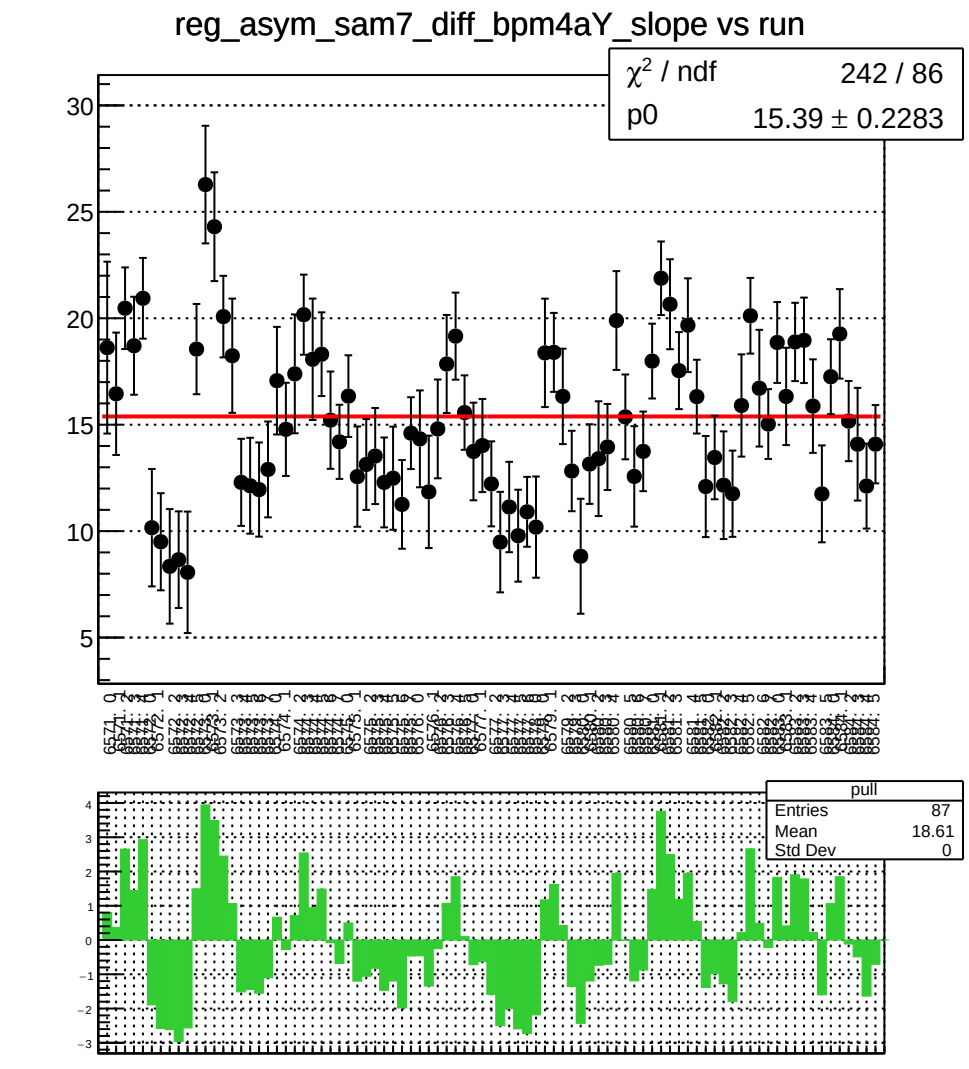

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 65.86 / 86
p0 42.87 ± 0.802
pull
Entries 87
Mean −466.5
Std Dev 0
pull1D
Entries 87
Mean −0.01834
Std Dev 0.8699

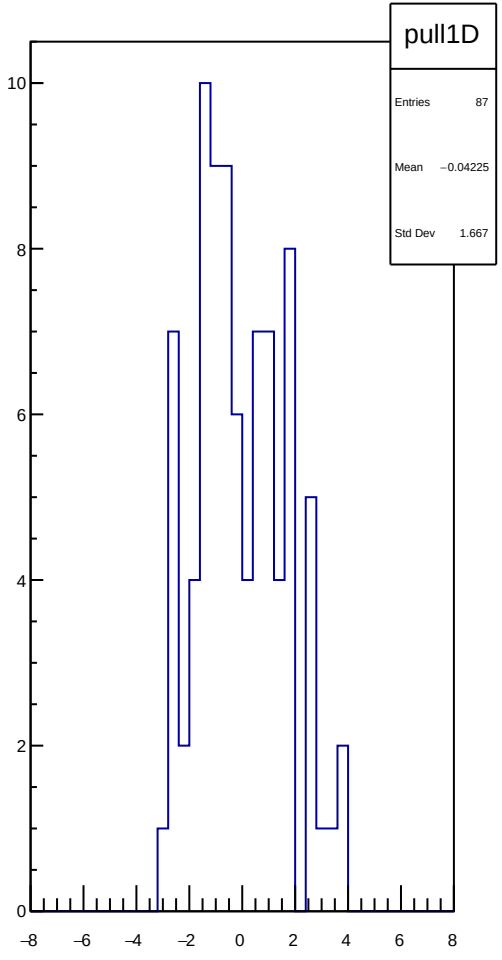

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 75.25 / 86
p0 56.31 ± 0.7832
pull
Entries 87
Mean −1.259e+04
Std Dev 0
pull1D
Entries 87
Mean −0.001133
Std Dev 0.93

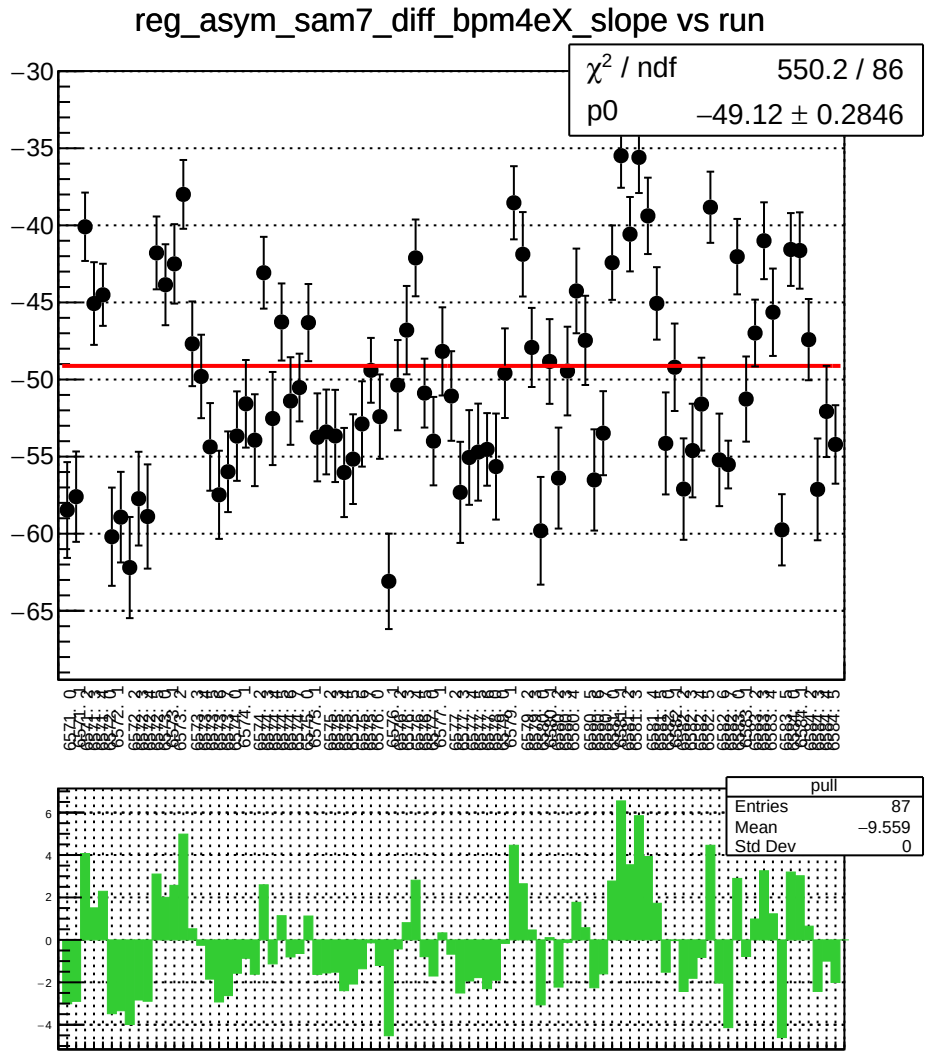

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 44.62 / 86
p0 −0.2061± 0.03549
pull
Entries 87
Mean 211.9
Std Dev 0
pull1D
Entries 87
Mean −0.05948
Std Dev 0.7137

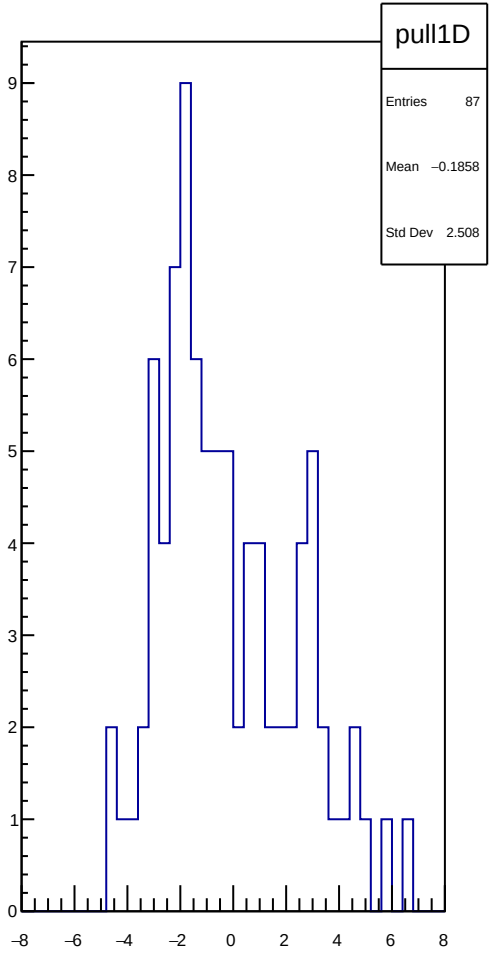

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 591 / 86
p0 11.39 ± 0.2768
pull
Entries 87
Mean −5.354
Std Dev 0

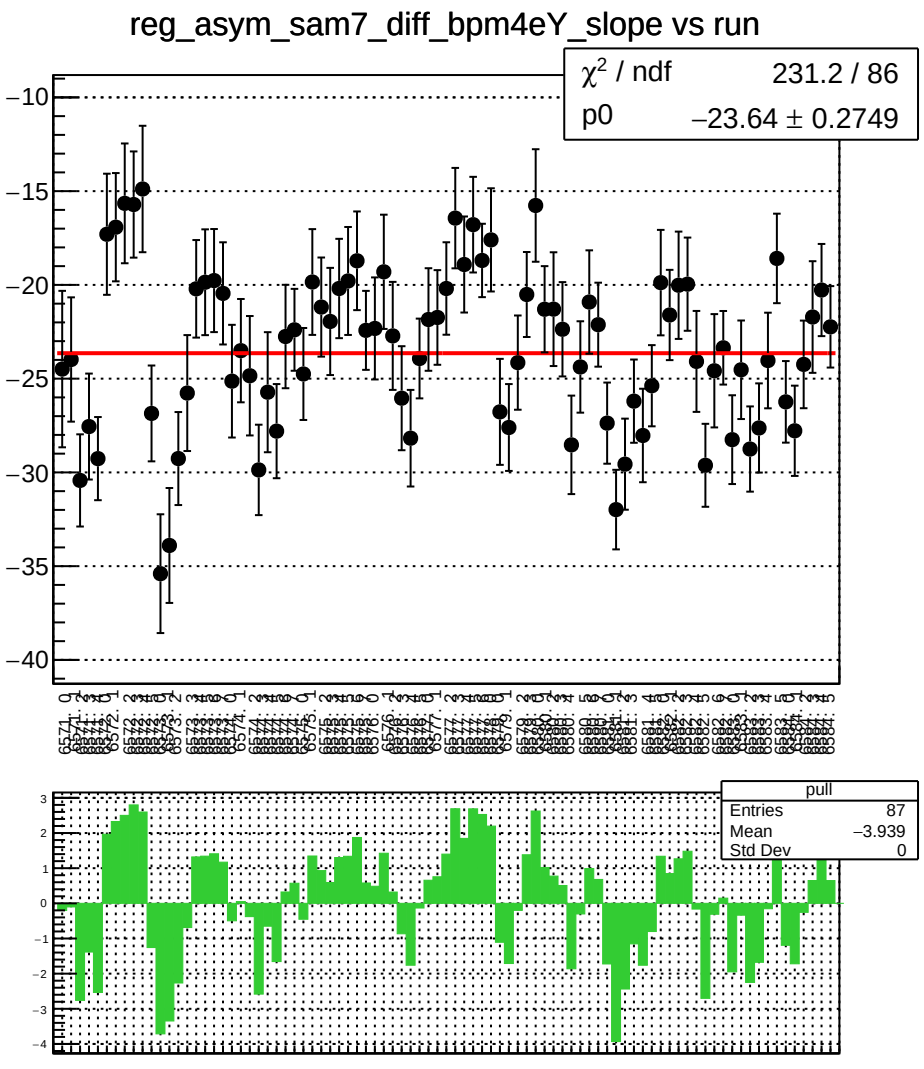

pull1D
Entries 87
Mean 0.1758
Std Dev 2.6

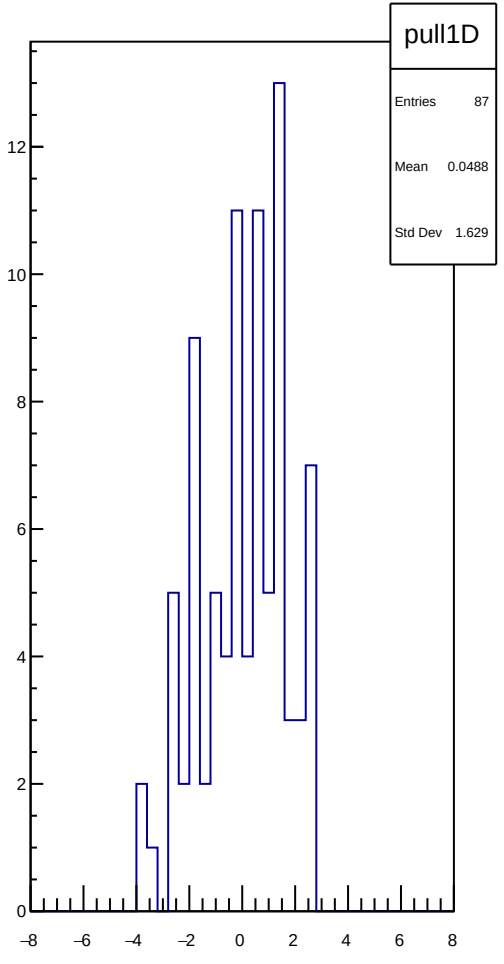

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 242 / 86
p0 15.39 ± 0.2283
pull
Entries 87
Mean 18.61
Std Dev 0

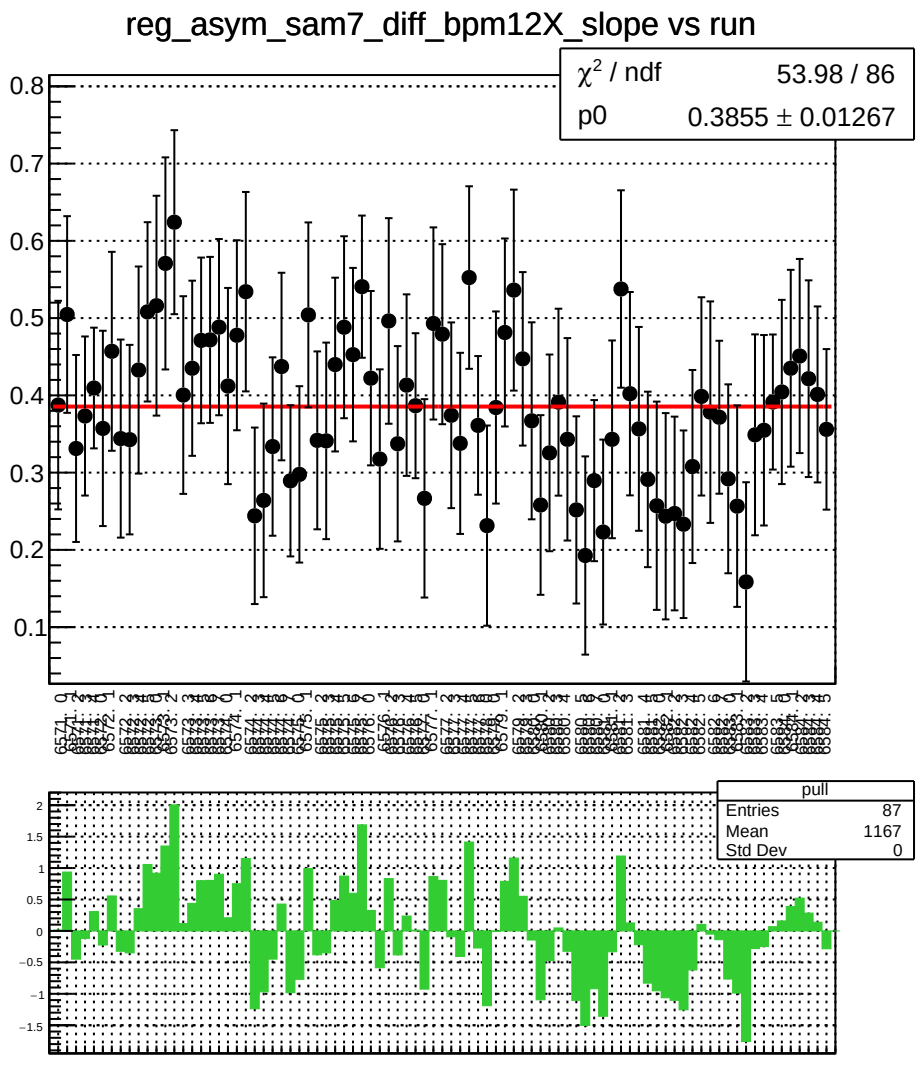

pull1D
Entries 87
Mean −0.04225
Std Dev 1.667

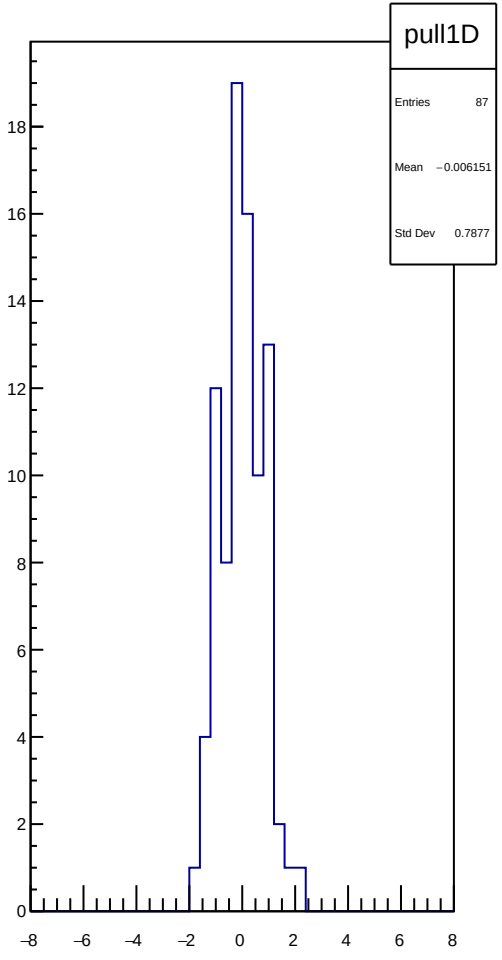

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 550.2 / 86
p0 −49.12 ± 0.2846
pull
Entries 87
Mean −9.559
Std Dev 0

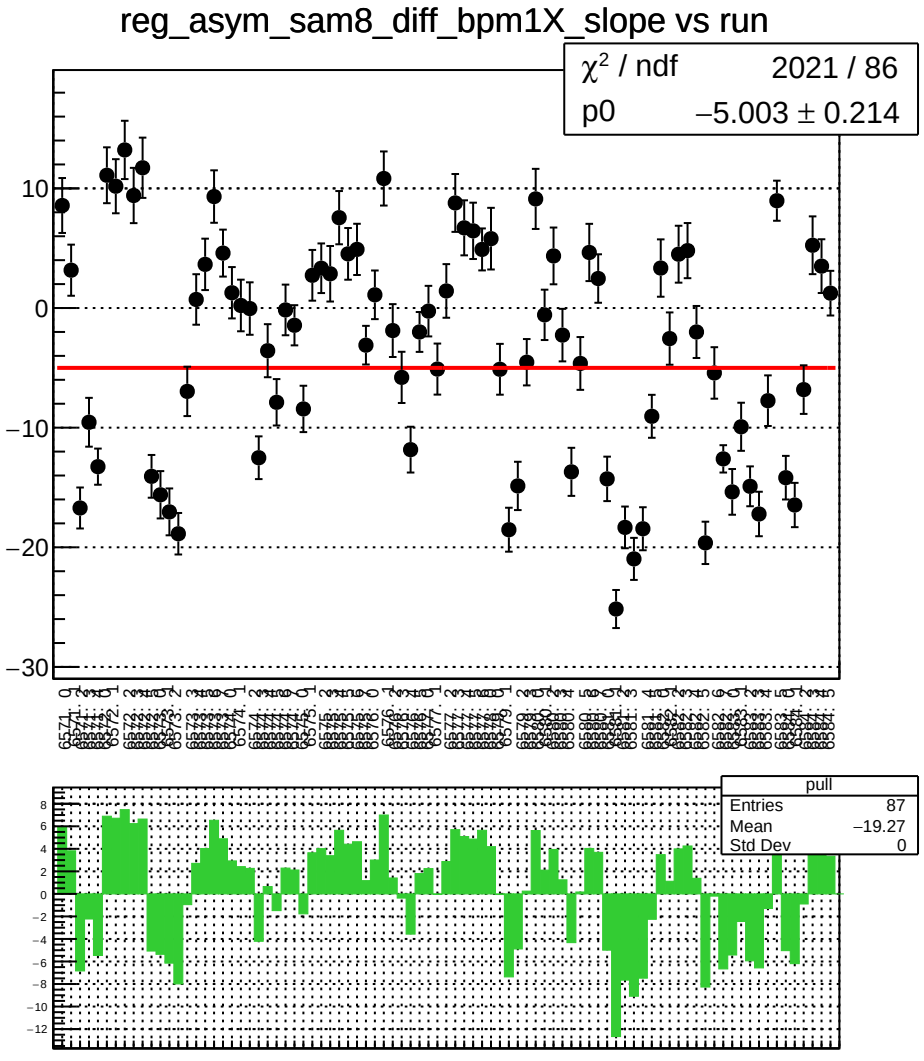

pull1D
Entries 87
Mean −0.1858
Std Dev 2.508

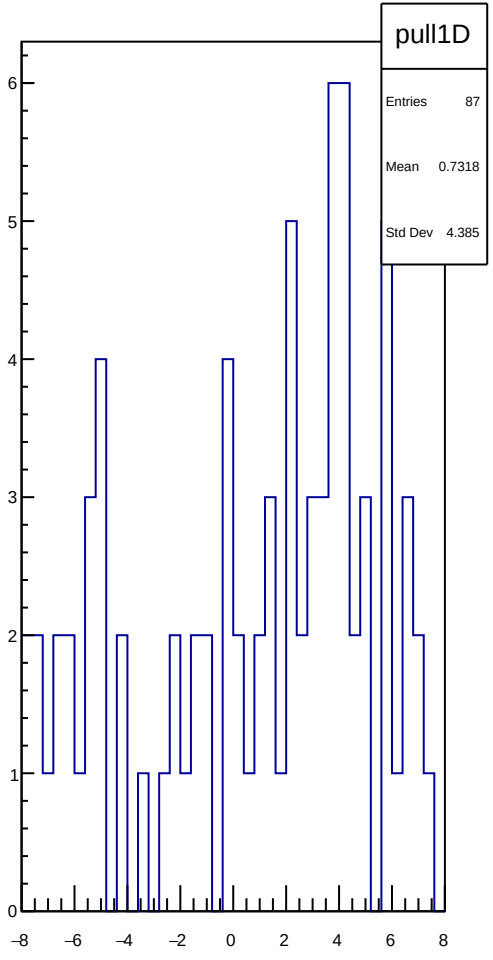

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 231.2 / 86
p0 −23.64 ± 0.2749
pull
Entries 87
Mean −3.939
Std Dev 0

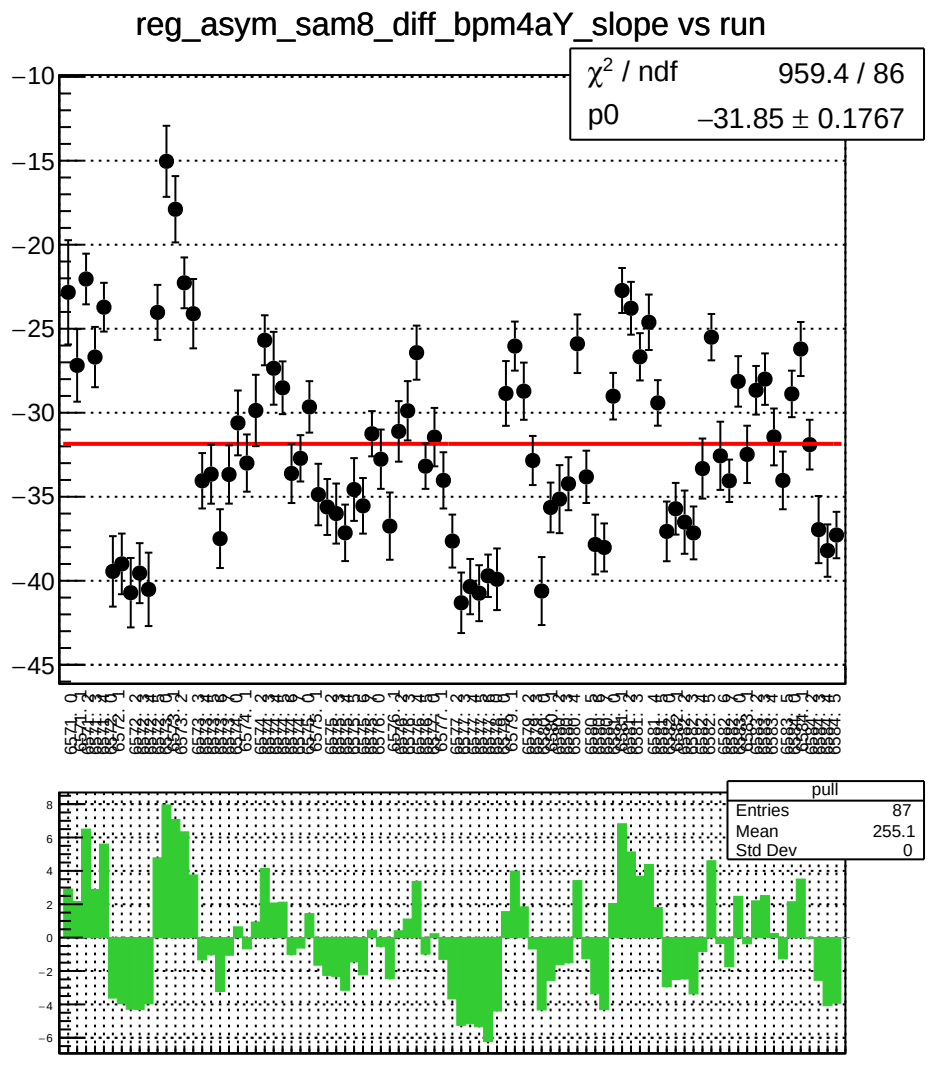

pull1D
Entries 87
Mean 0.0488
Std Dev 1.629

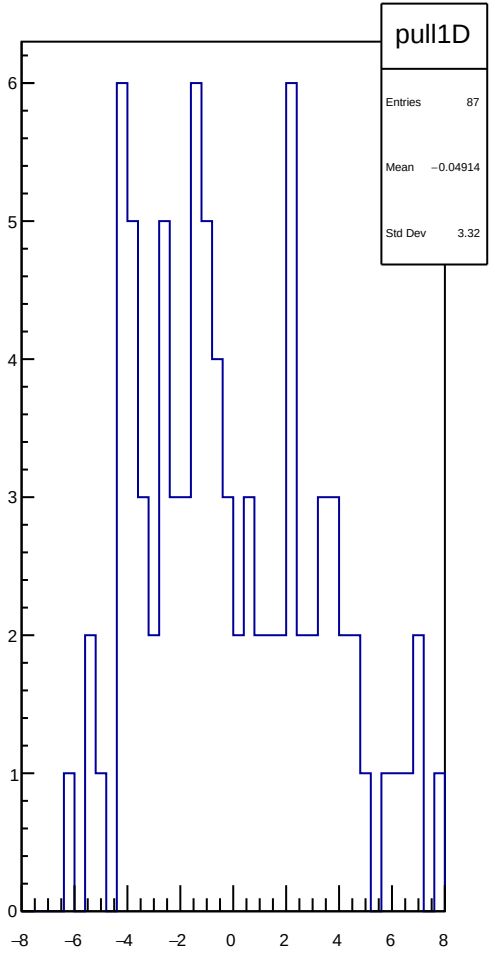

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 53.98 / 86
p0 0.3855 ± 0.01267
pull
Entries 87
Mean 1167
Std Dev 0

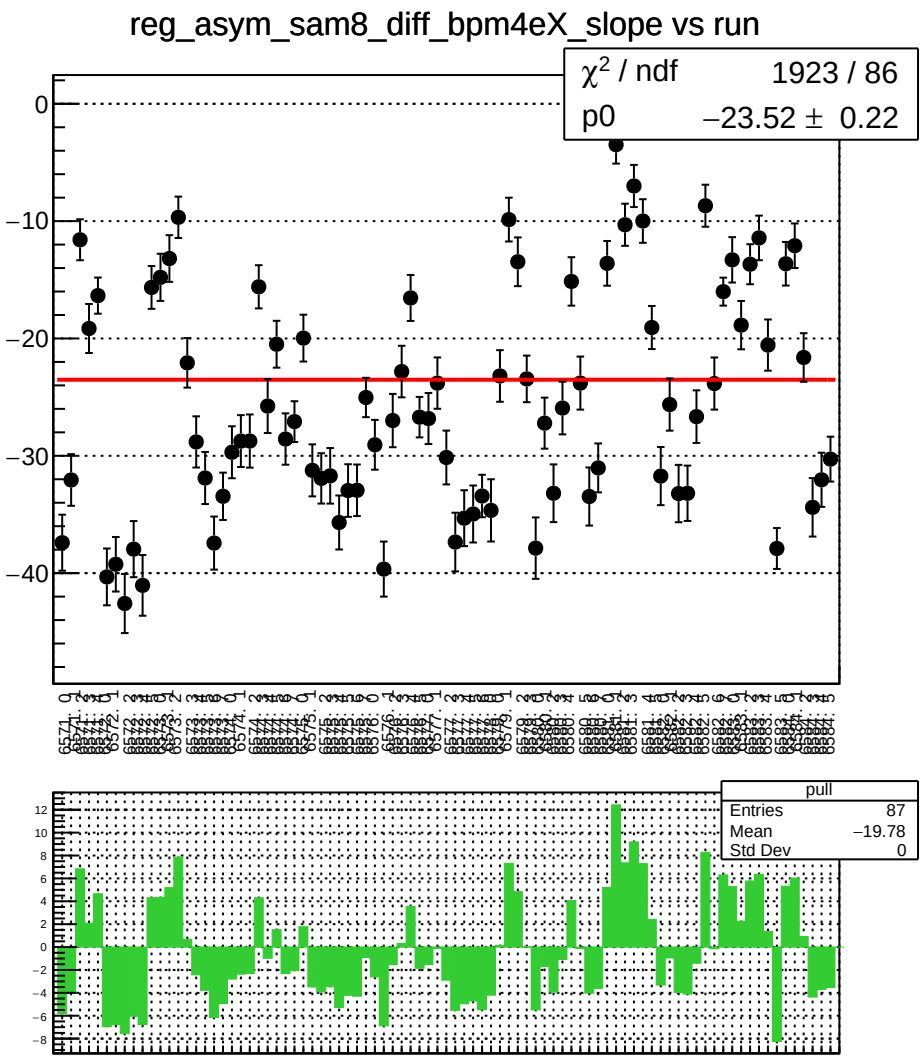

pull1D
Entries 87
Mean −0.006151
Std Dev 0.7877

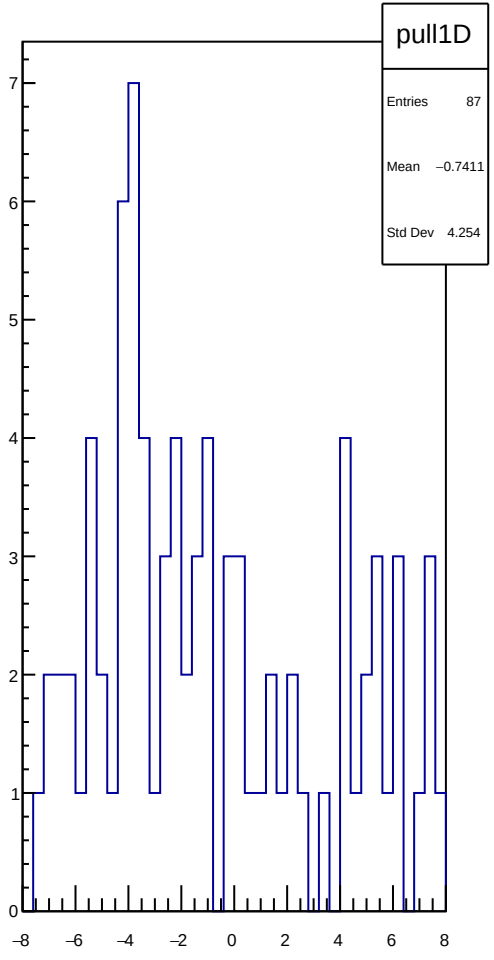

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 2021 / 86
p0 −5.003 ± 0.214
pull
Entries 87
Mean −19.27
Std Dev 0

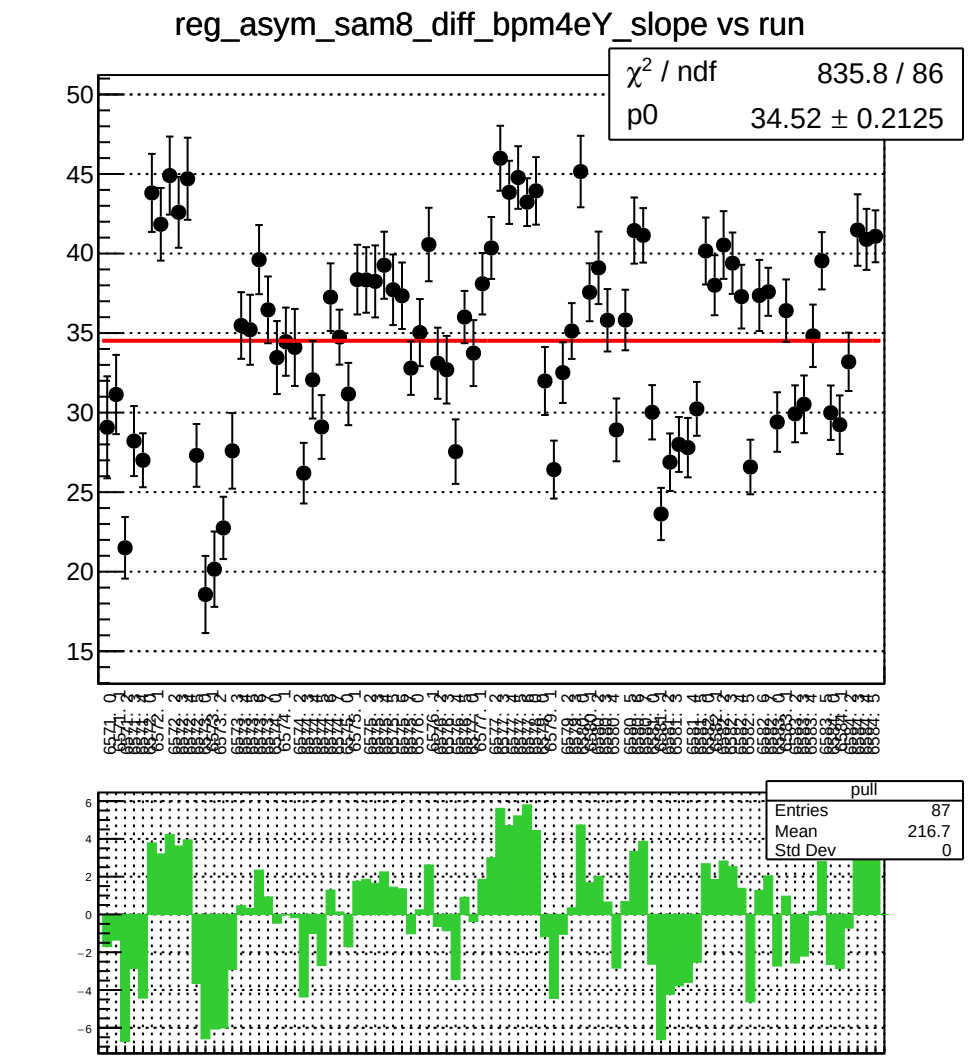

pull1D
Entries 87
Mean 0.7318
Std Dev 4.385

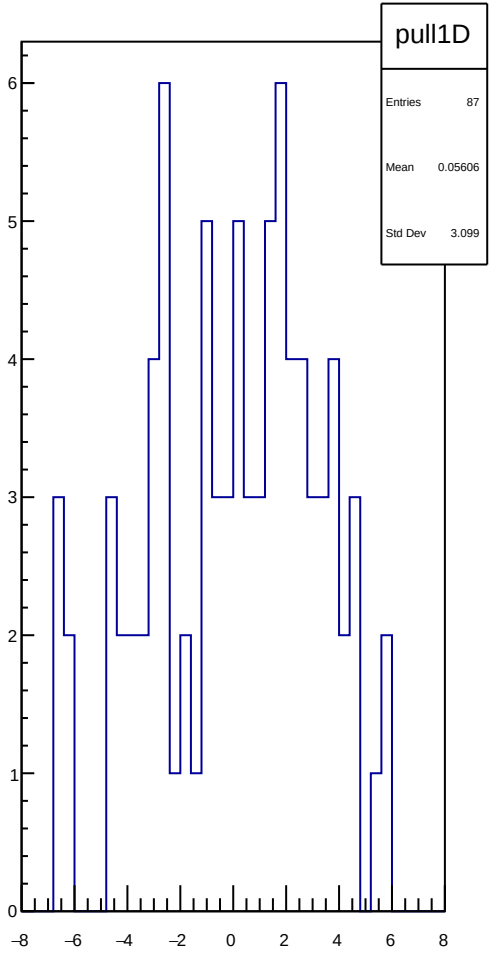

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 959.4 / 86
p0 −31.85 ± 0.1767
pull
Entries 87
Mean 255.1
Std Dev 0

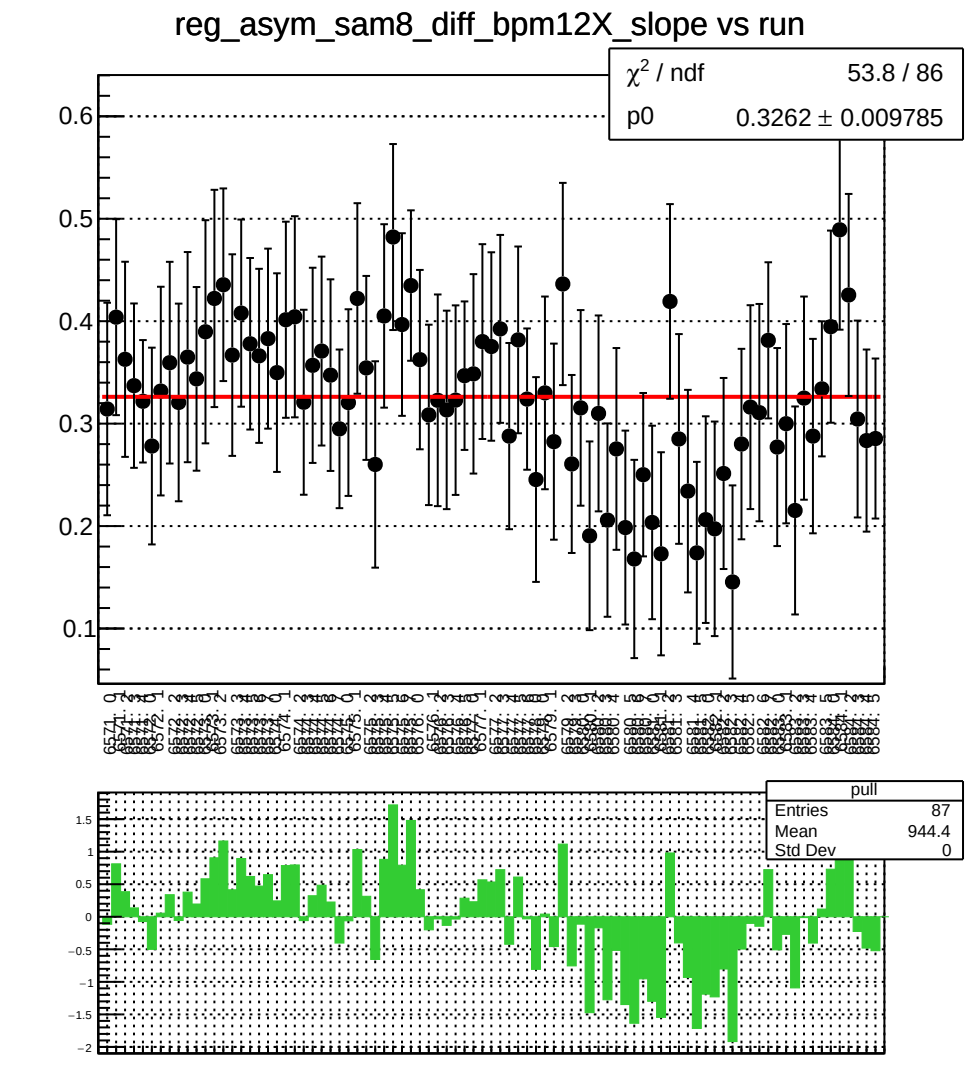

pull1D
Entries 87
Mean −0.04914
Std Dev 3.32

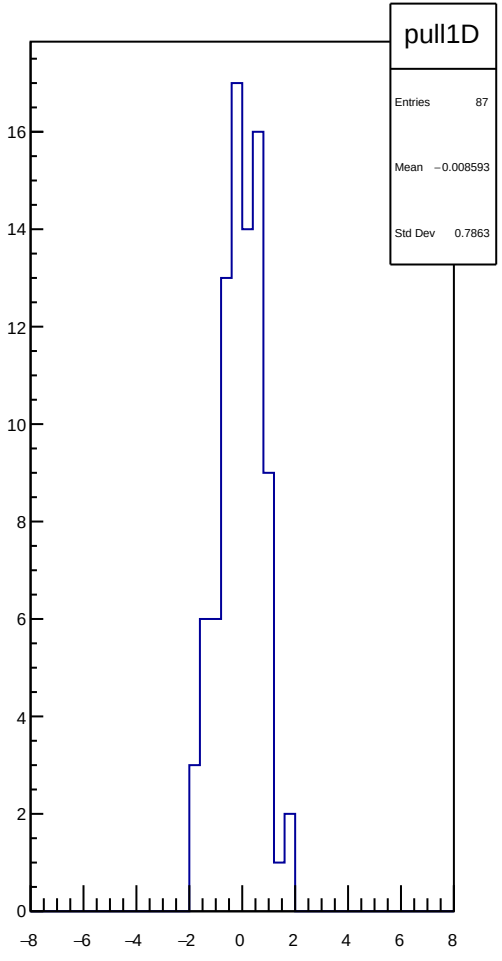

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 1923 / 86
p0 −23.52 ± 0.22
pull
Entries 87
Mean −19.78
Std Dev 0

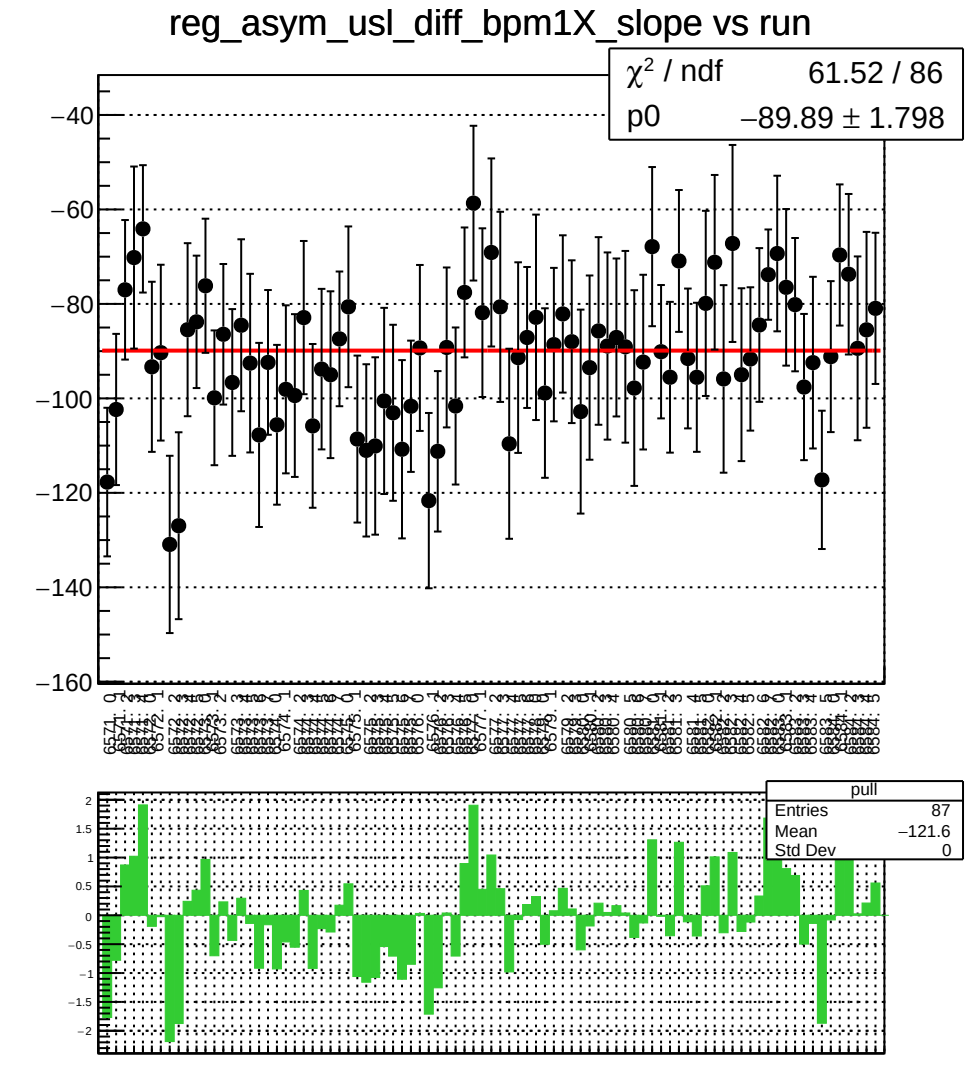

pull1D
Entries 87
Mean −0.7411
Std Dev 4.254

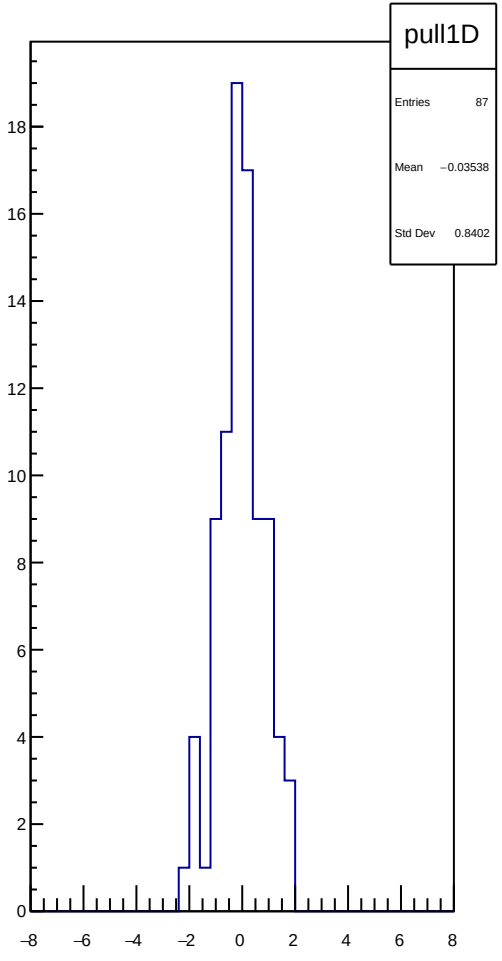

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 835.8 / 86
p0 34.52 ± 0.2125
pull
Entries 87
Mean 216.7
Std Dev 0

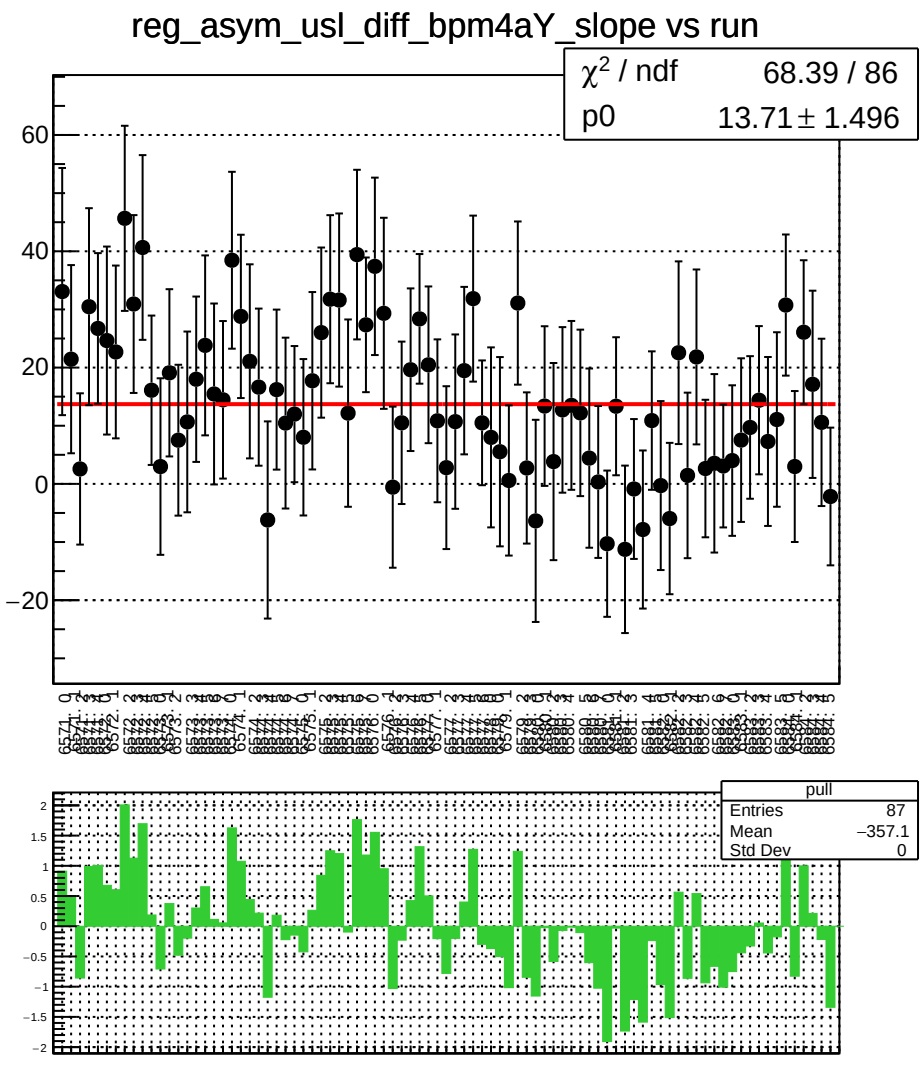

pull1D
Entries 87
Mean 0.05606
Std Dev 3.099

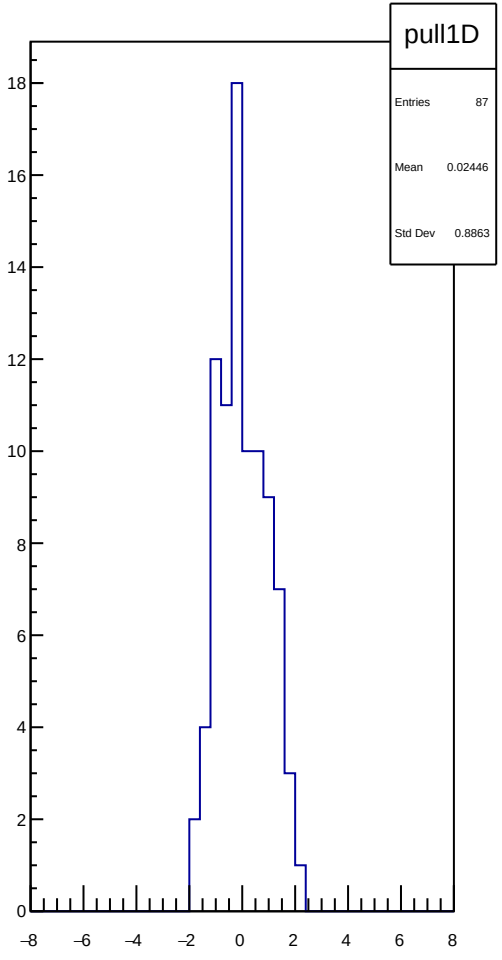

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 53.8 / 86
p0 0.3262 ± 0.009785
pull
Entries 87
Mean 944.4
Std Dev 0

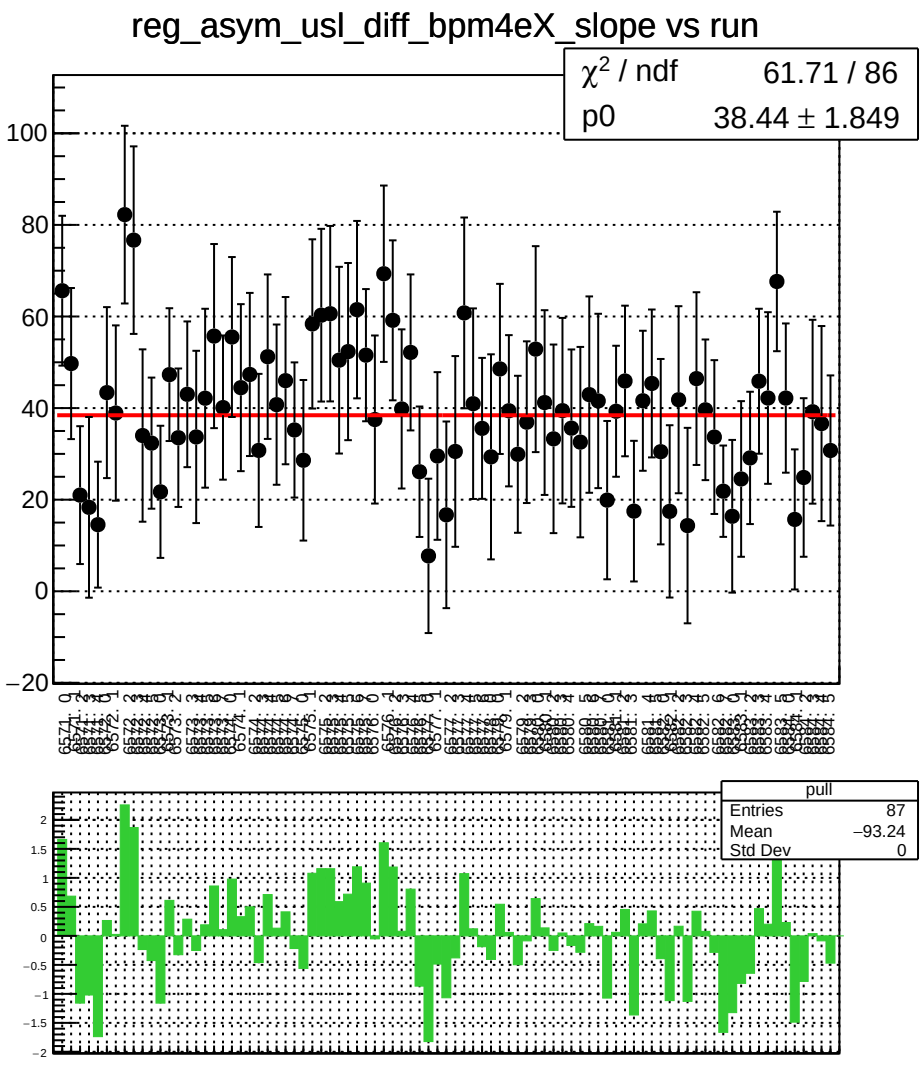

pull1D
Entries 87
Mean −0.008593
Std Dev 0.7863

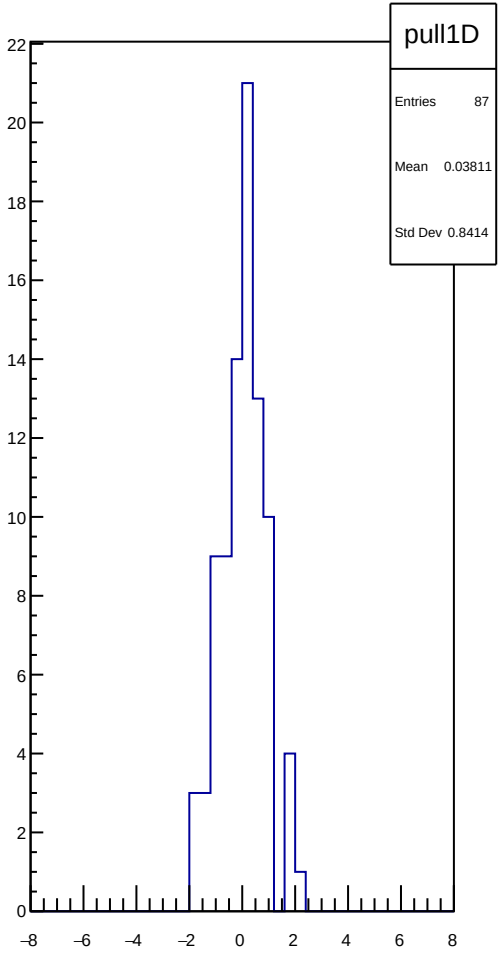

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 61.52 / 86
p0 −89.89 ± 1.798
pull
Entries 87
Mean −121.6
Std Dev 0

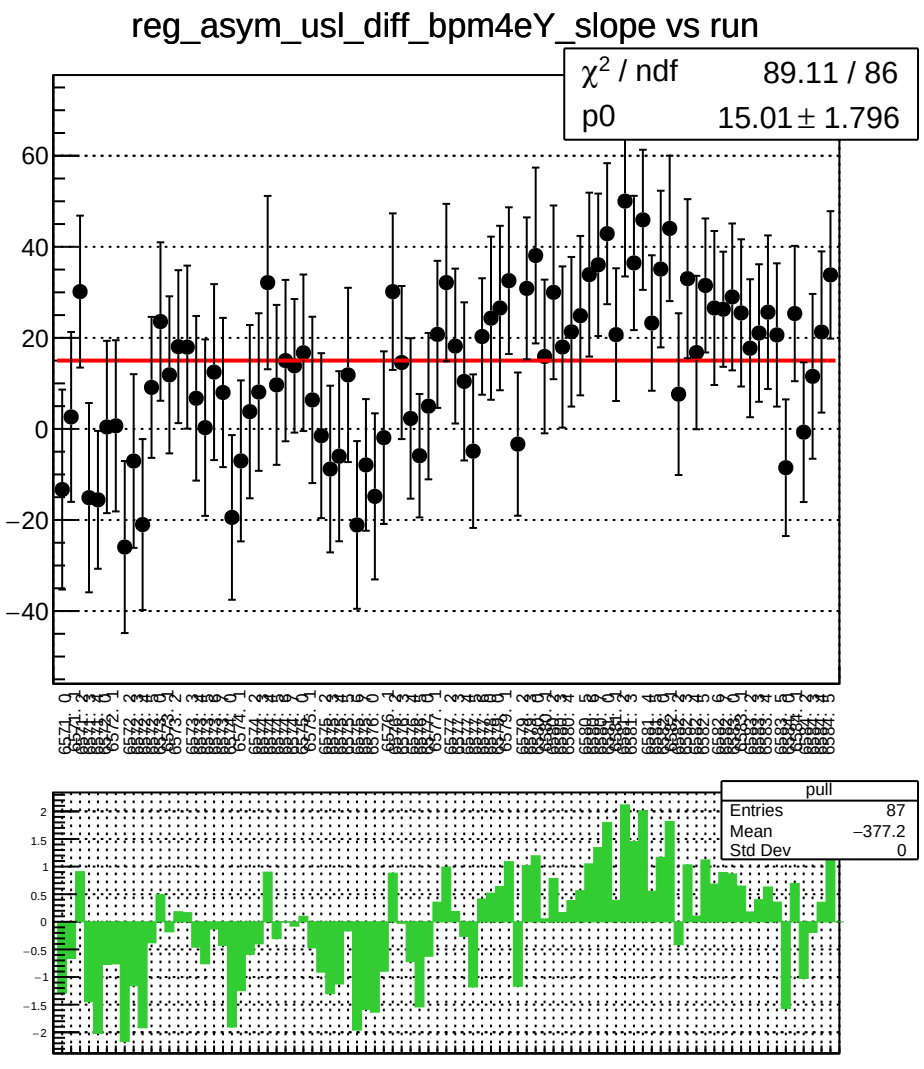

pull1D
Entries 87
Mean −0.03538
Std Dev 0.8402

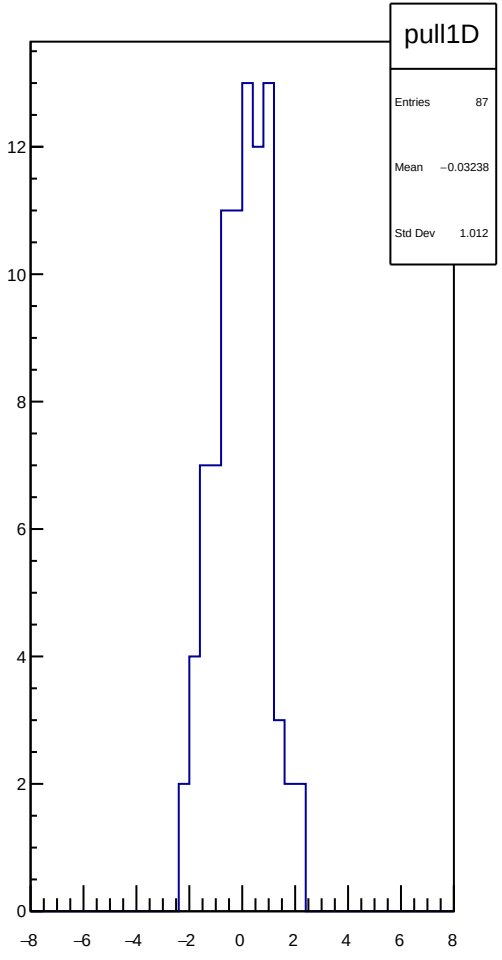

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 68.39 / 86
p0 13.71 ± 1.496
pull
Entries 87
Mean −357.1
Std Dev 0

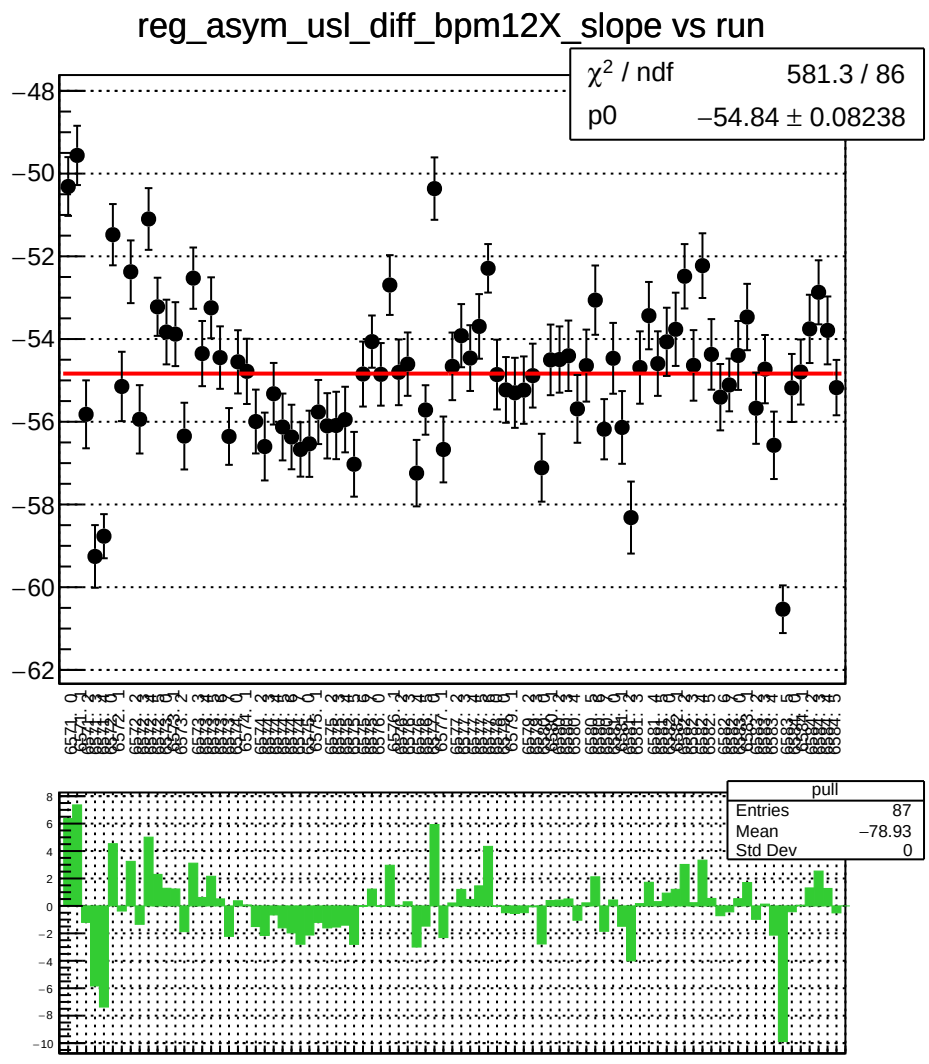

pull1D
Entries 87
Mean 0.02446
Std Dev 0.8863

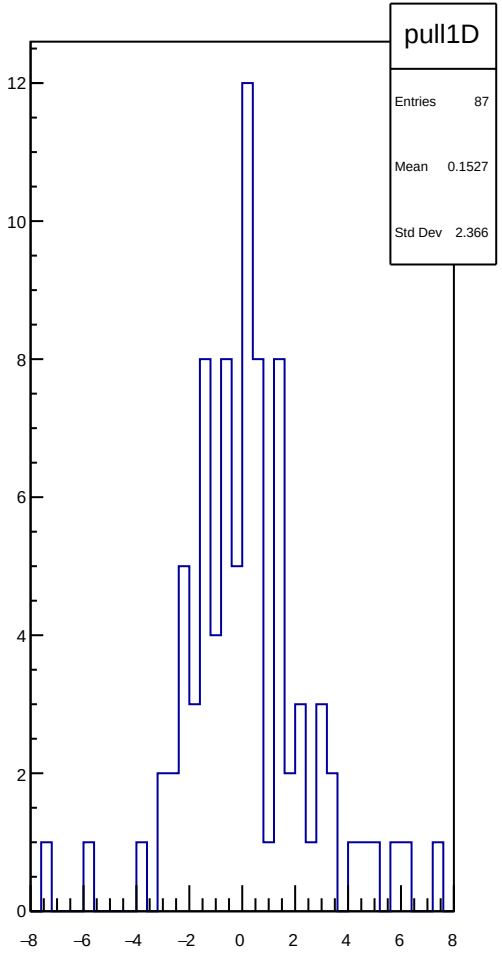

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 61.71 / 86
p0 38.44 ± 1.849
pull
Entries 87
Mean −93.24
Std Dev 0

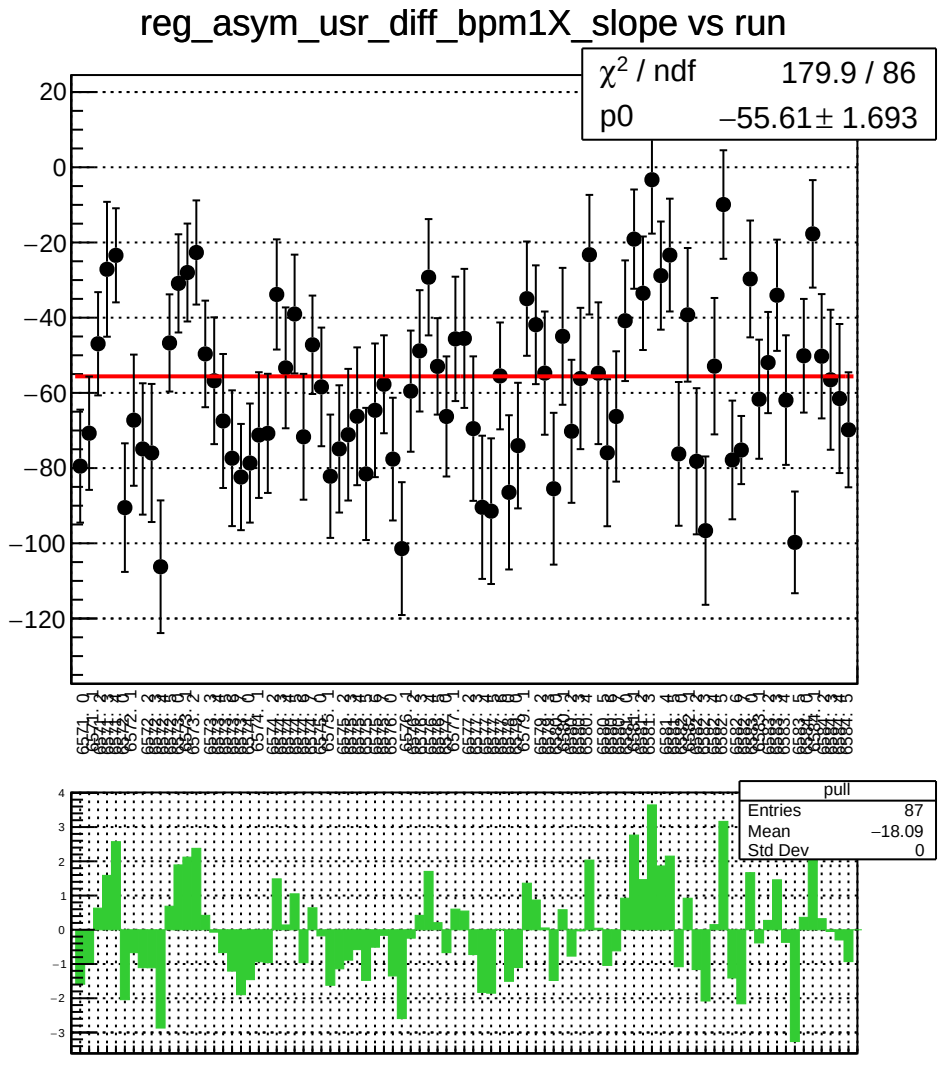

pull1D
Entries 87
Mean 0.03811
Std Dev 0.8414

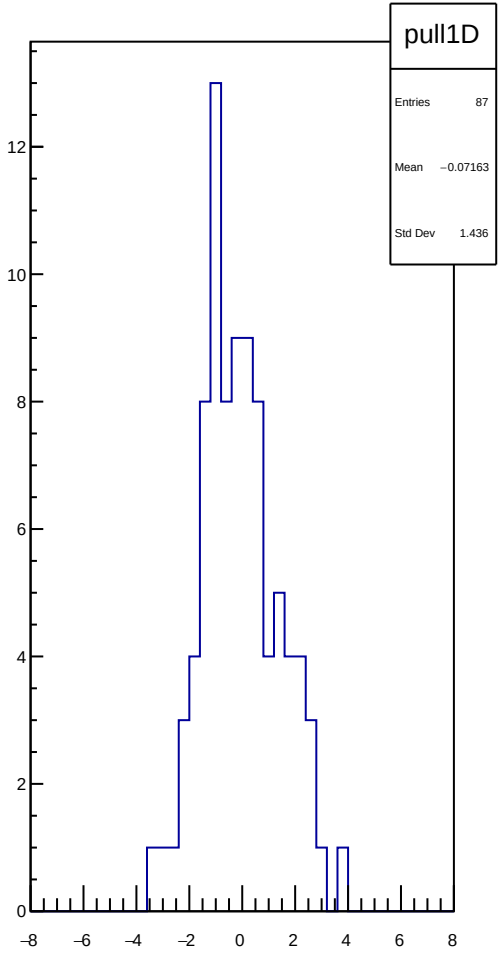

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 89.11 / 86
p0 15.01 ± 1.796
pull
Entries 87
Mean −377.2
Std Dev 0

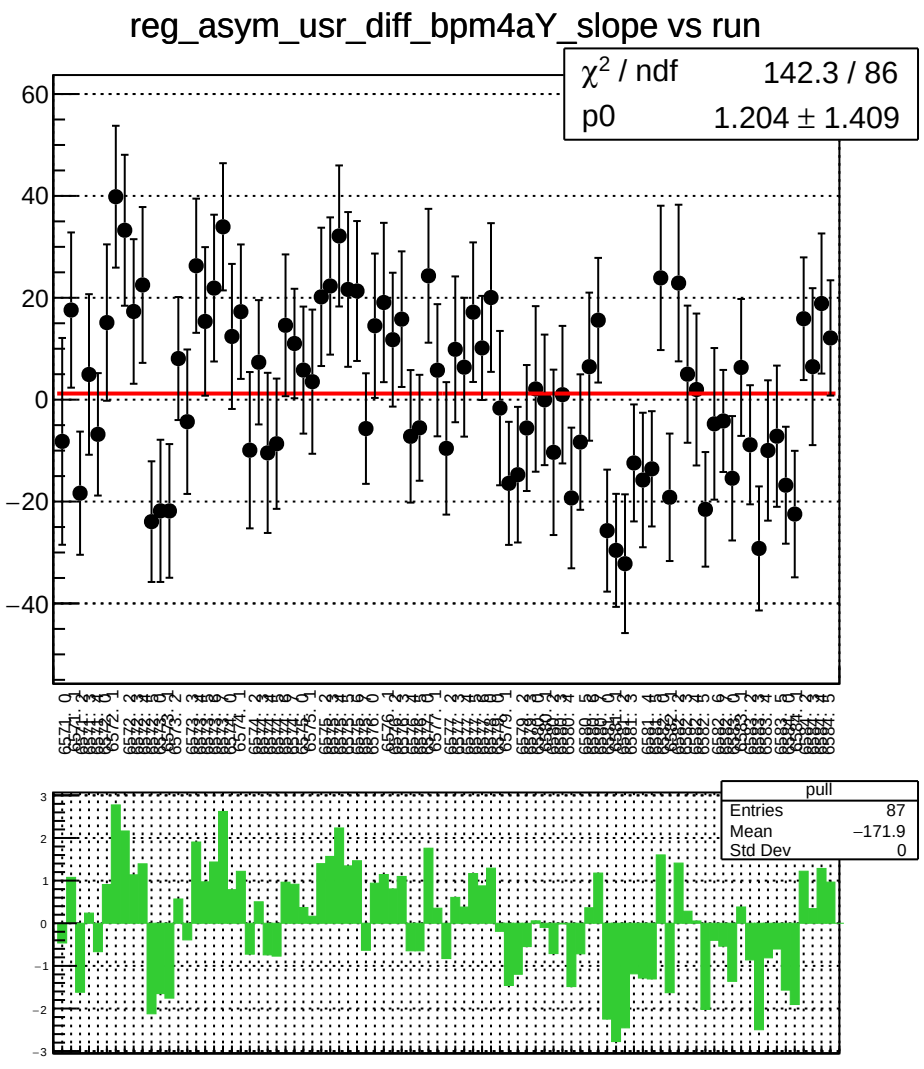

pull1D
Entries 87
Mean −0.03238
Std Dev 1.012

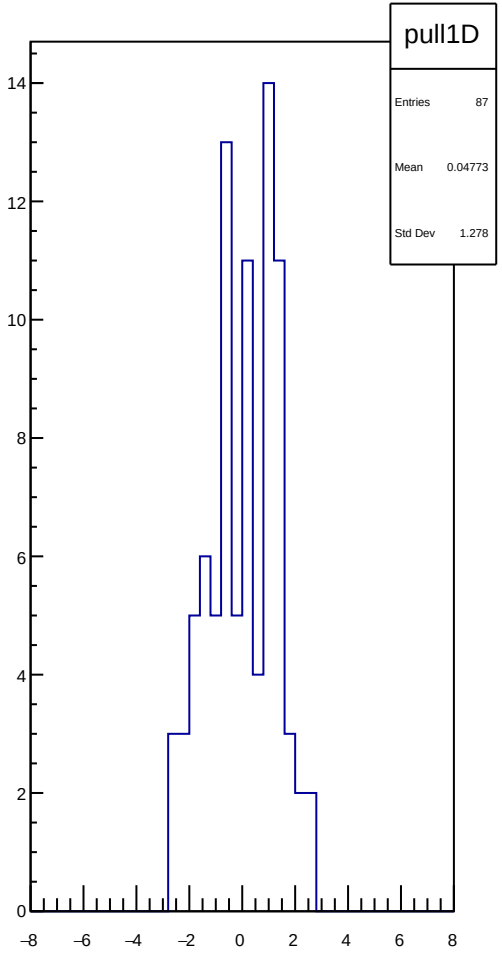

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 581.3 / 86
p0 −54.84 ± 0.08238
pull
Entries 87
Mean −78.93
Std Dev 0

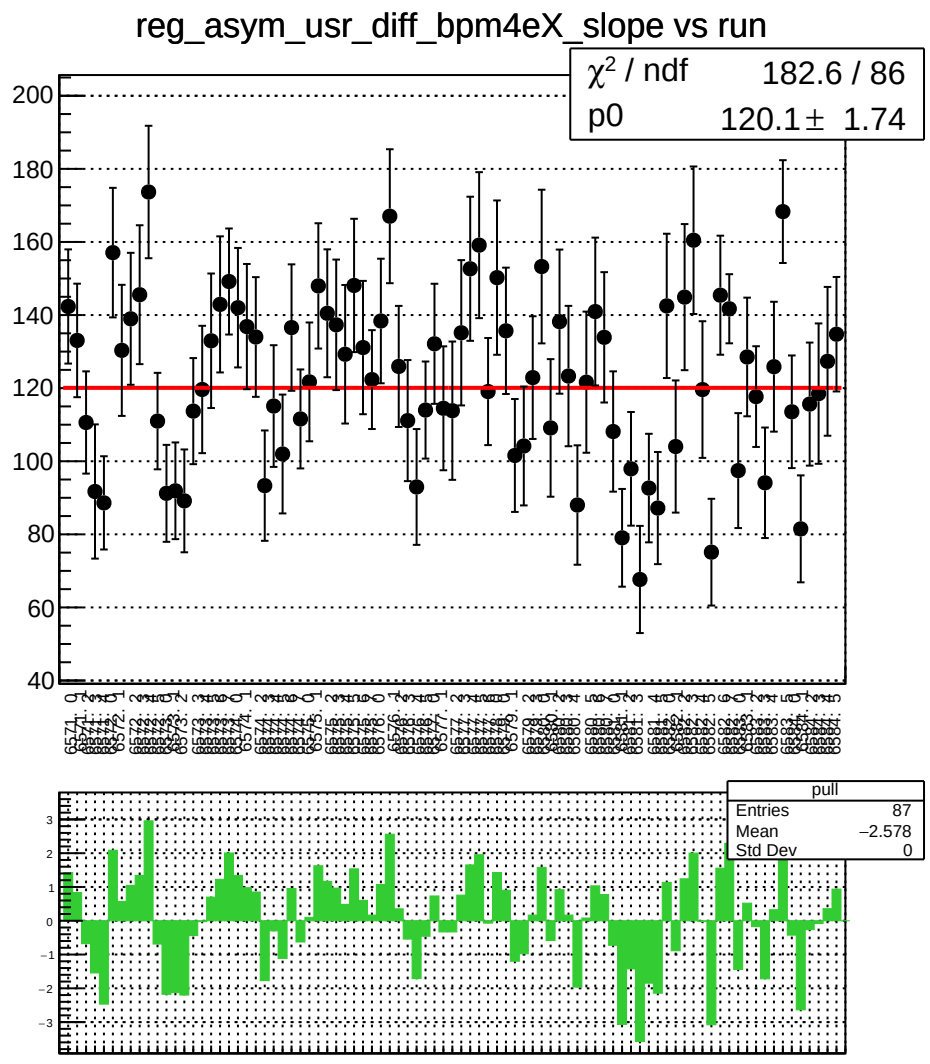

pull1D
Entries 87
Mean 0.1527
Std Dev 2.366

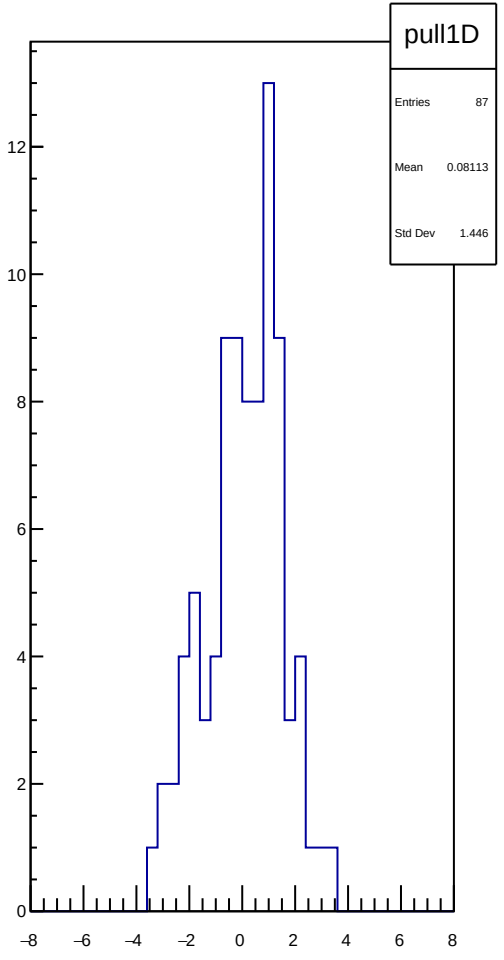

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 179.9 / 86
p0 −55.61 ± 1.693
pull
Entries 87
Mean −18.09
Std Dev 0

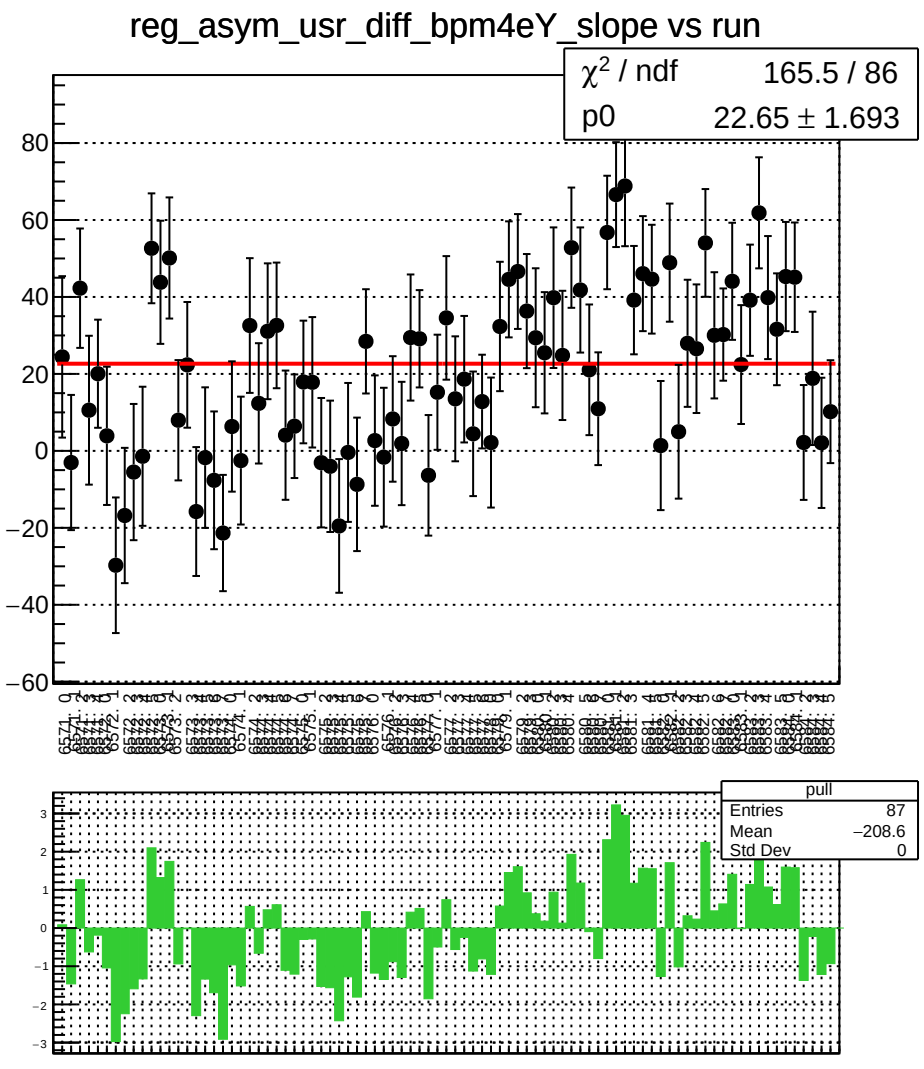

pull1D
Entries 87
Mean −0.07163
Std Dev 1.436

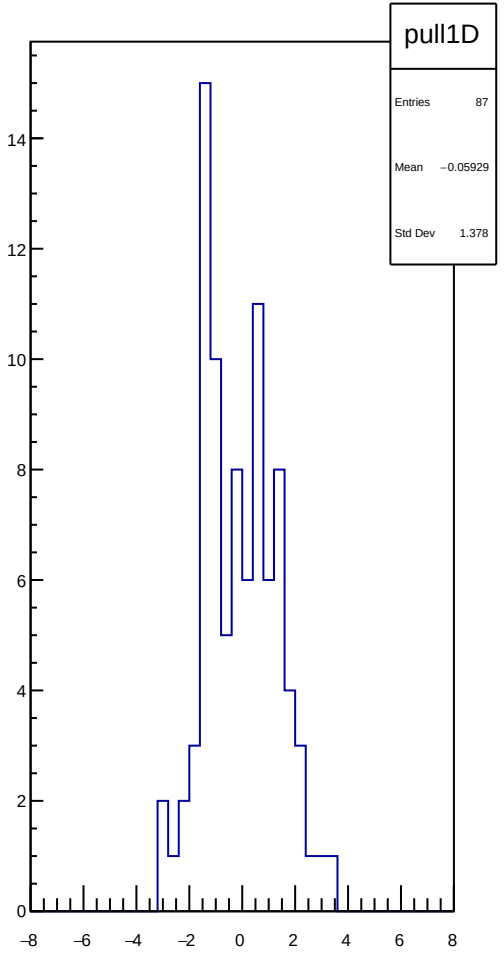

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 142.3 / 86
p0 1.204 ± 1.409
pull
Entries 87
Mean −171.9
Std Dev 0

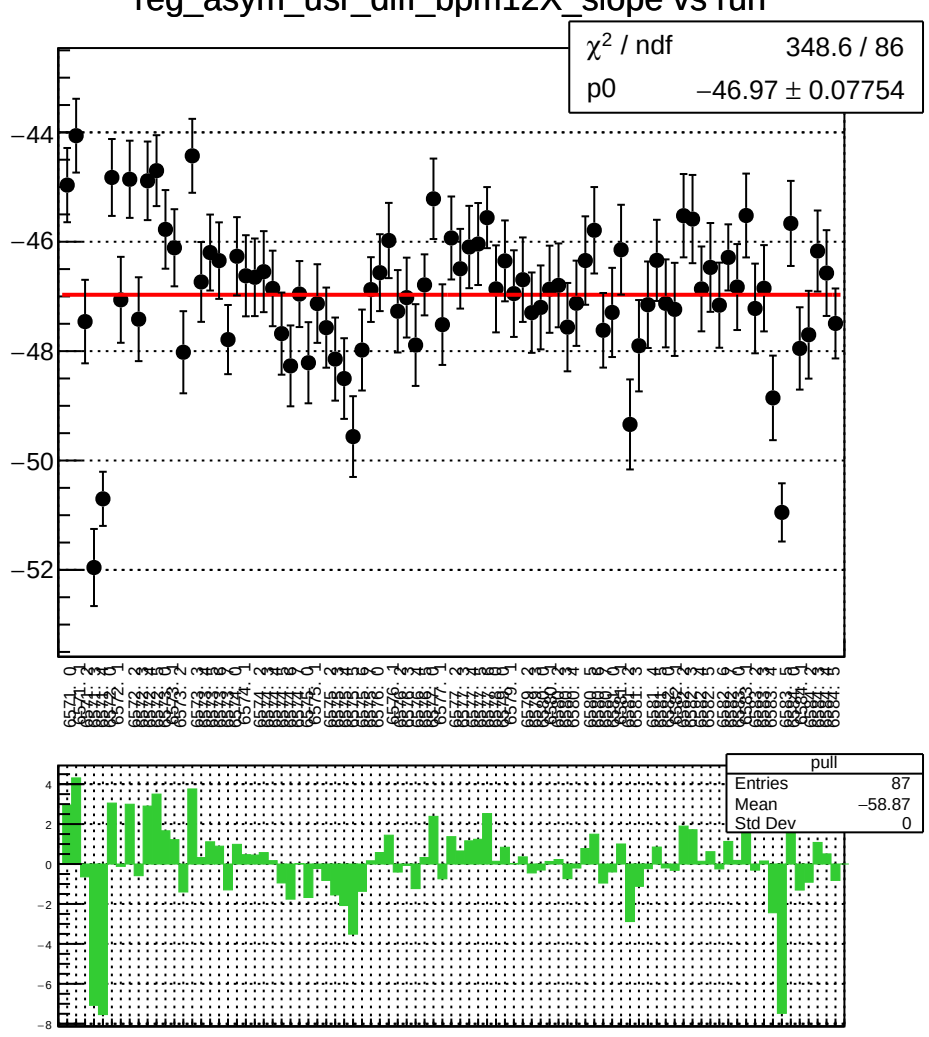

pull1D
Entries 87
Mean 0.04773
Std Dev 1.278

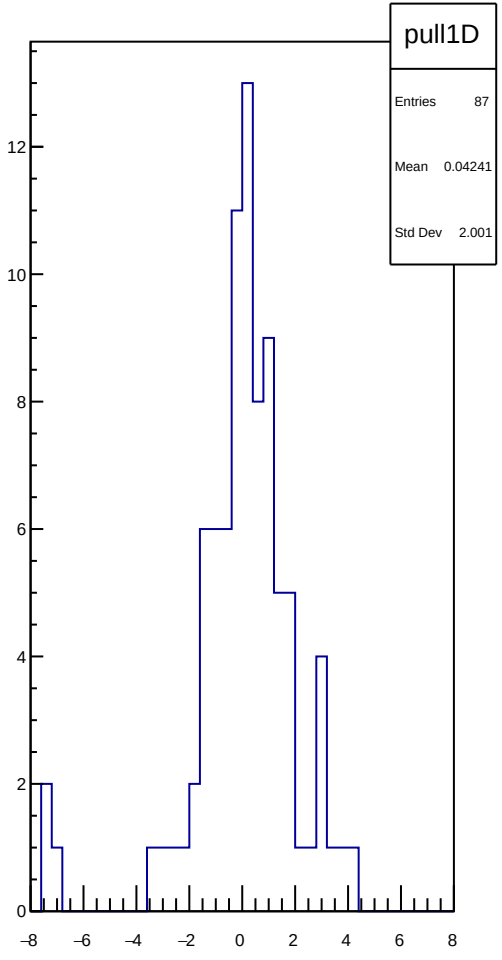

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 182.6 / 86
p0 120.1 ± 1.74
pull
Entries 87
Mean −2.578
Std Dev 0

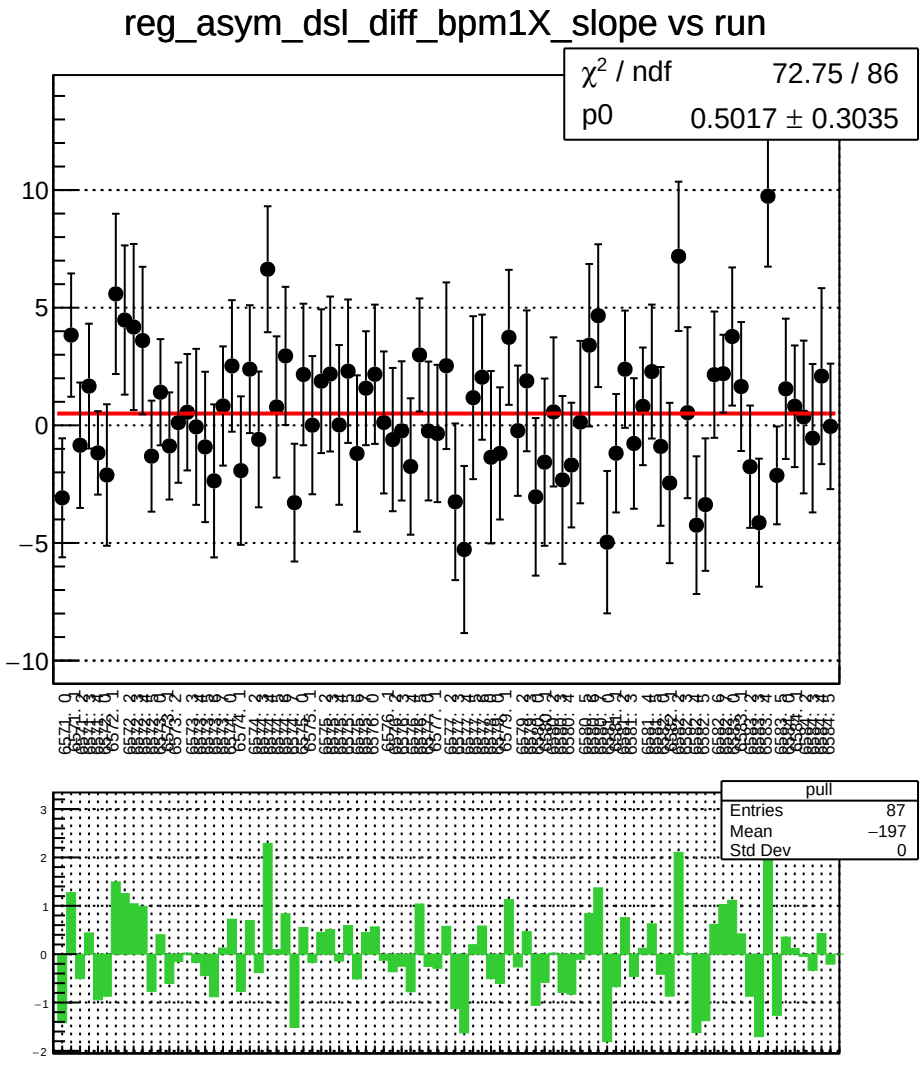

pull1D
Entries 87
Mean 0.08113
Std Dev 1.446

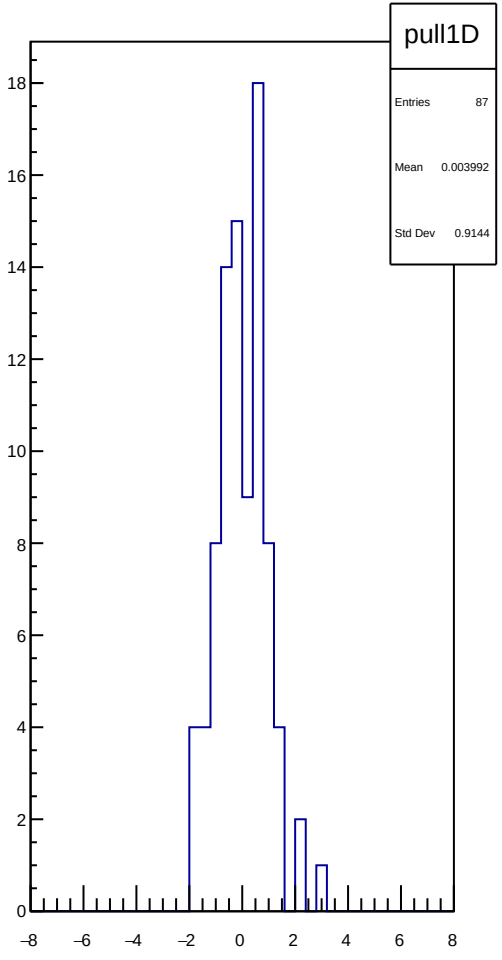

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 165.5 / 86
p0 22.65 ± 1.693
pull
Entries 87
Mean −208.6
Std Dev 0

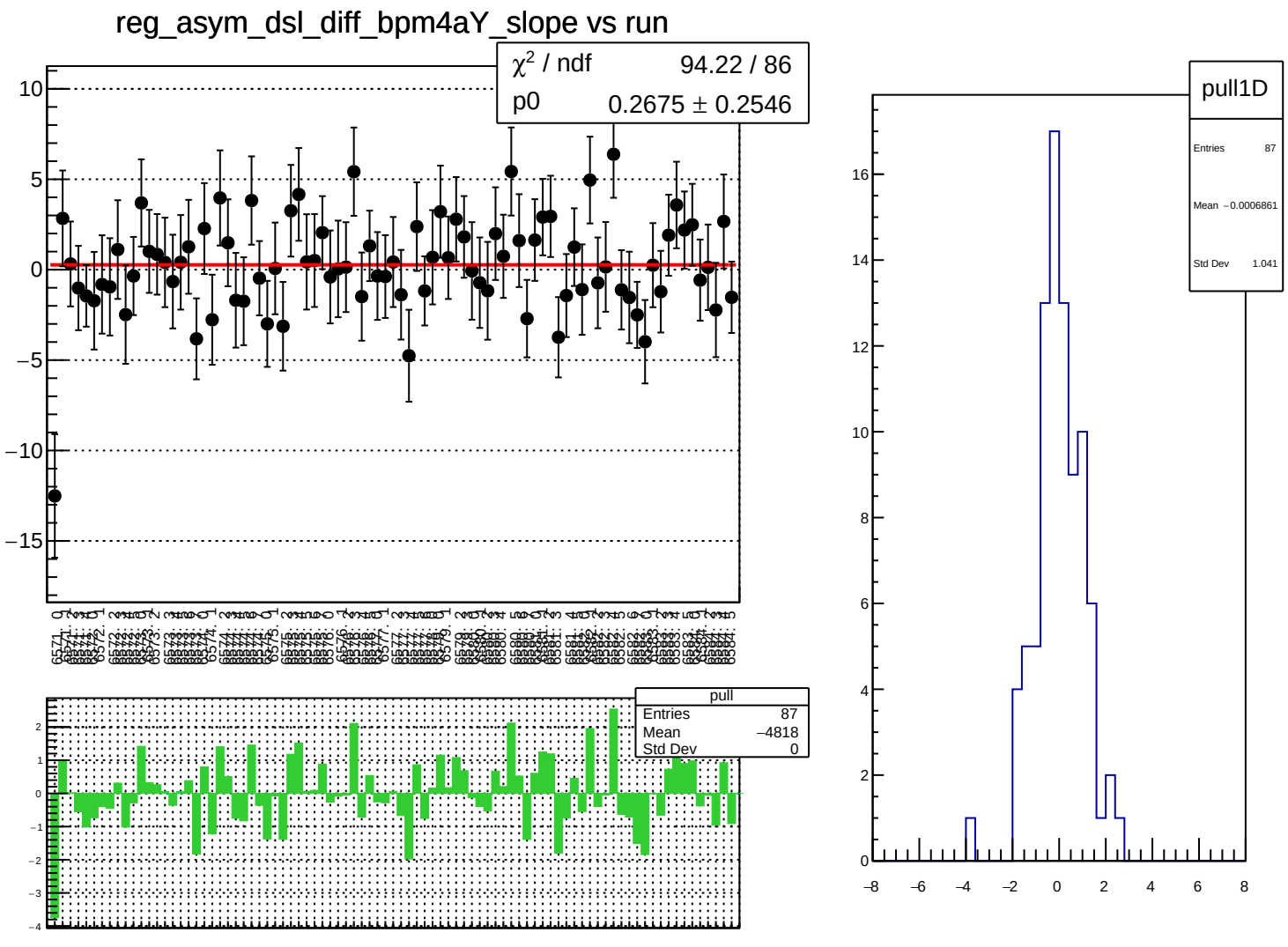

pull1D
Entries 87
Mean −0.05929
Std Dev 1.378

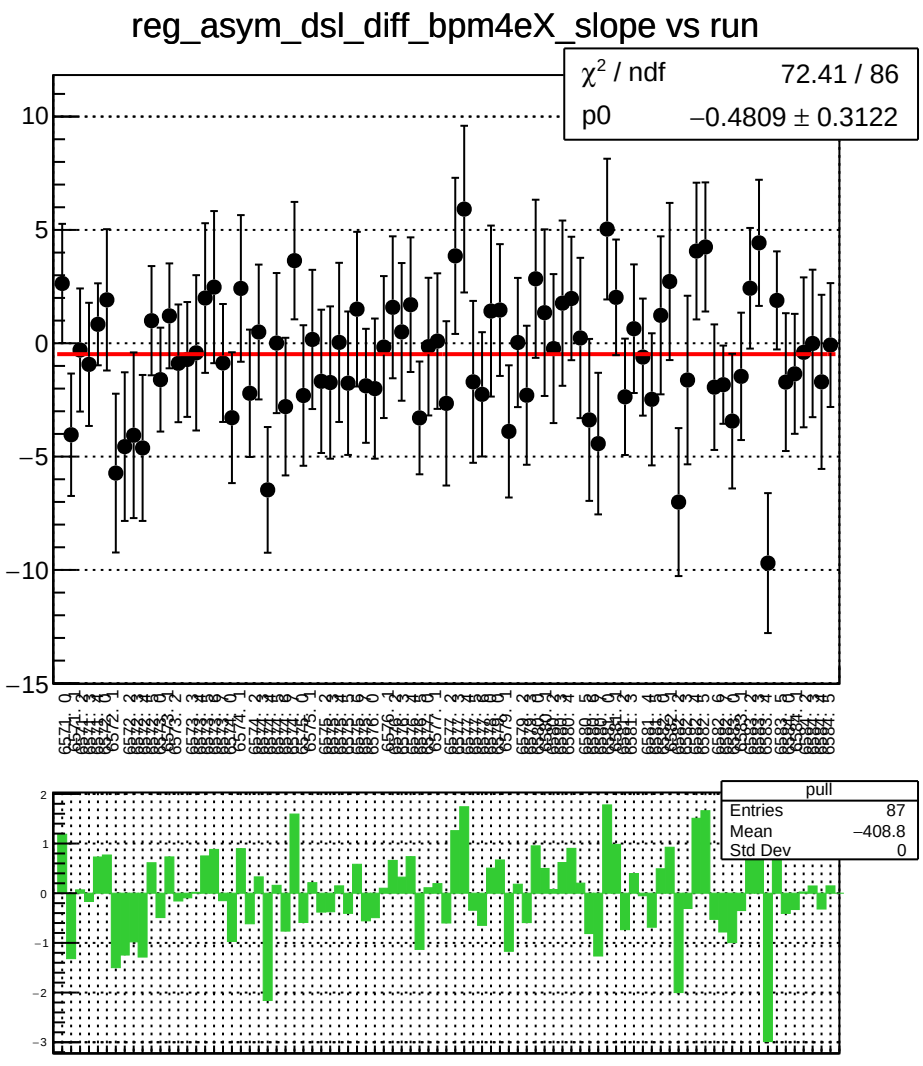

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 348.6 / 86
p0 −46.97 ± 0.07754
−44
−46
−48
−50
−52
pull
Entries 87
Mean −58.87
Std Dev 0
4
2
0
−2
−4
−6
−8

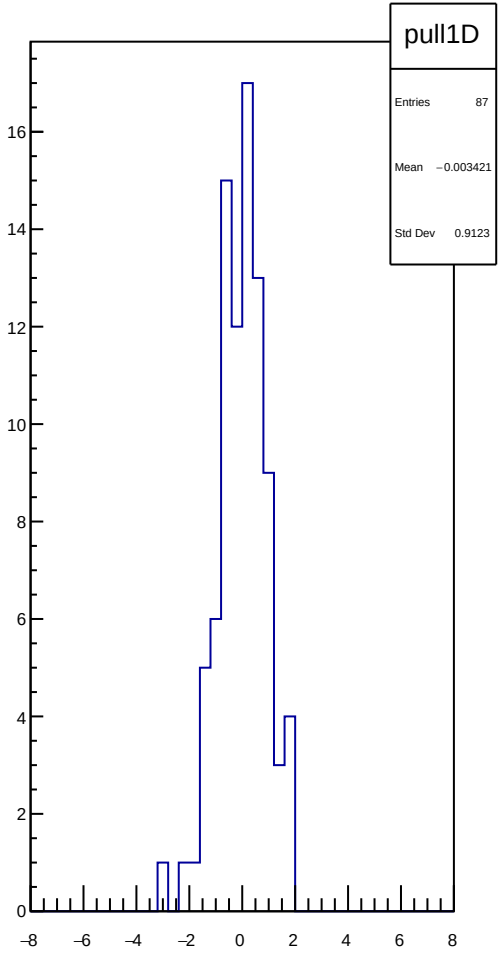

pull1D
Entries 87
Mean 0.04241
Std Dev 2.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

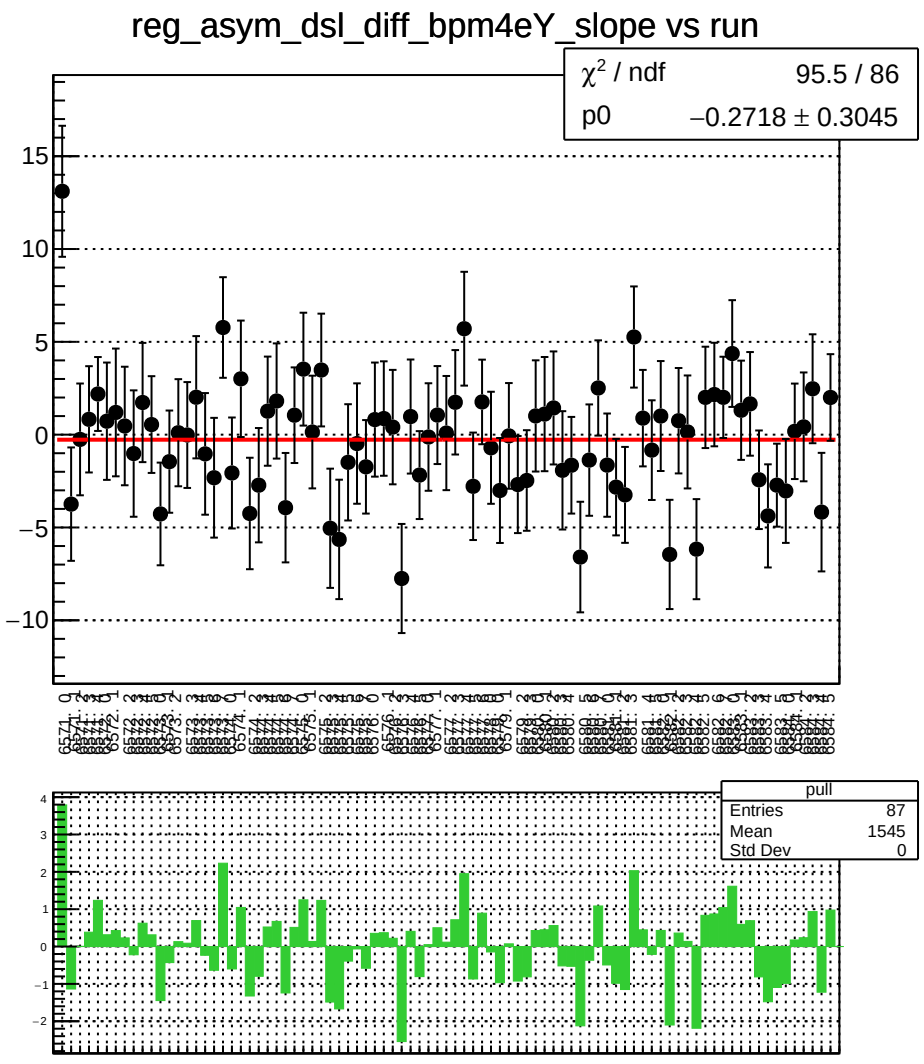

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 72.75 / 86
p0 0.5017 ± 0.3035
pull
Entries 87
Mean −197
Std Dev 0

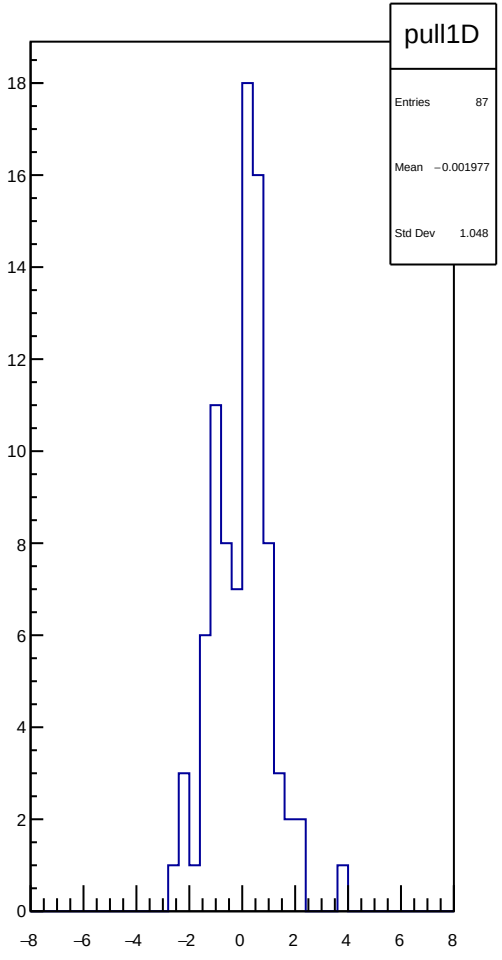

pull1D
Entries 87
Mean 0.003992
Std Dev 0.9144

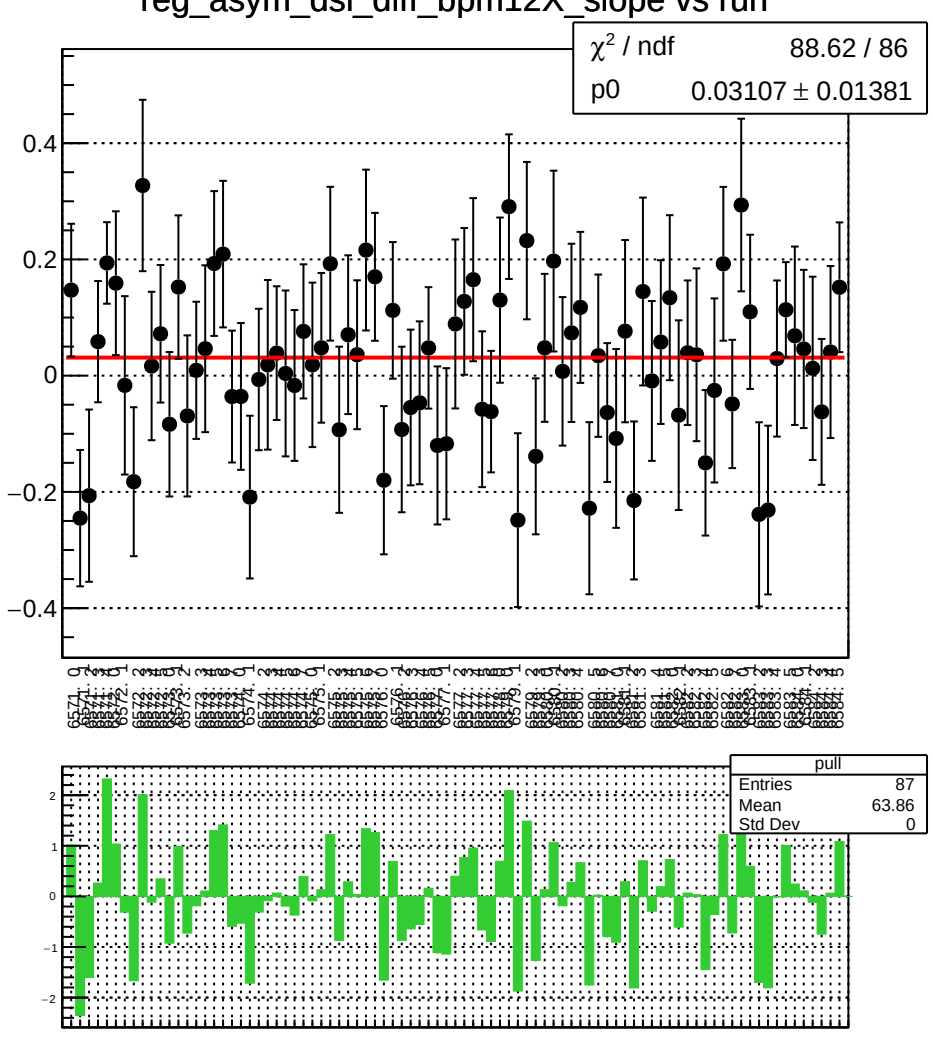

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 94.22 / 86
p0 0.2675 ± 0.2546
pull
Entries 87
Mean −4818
Std Dev 0
pull1D
Entries 87
Mean −0.0006861
Std Dev 1.041

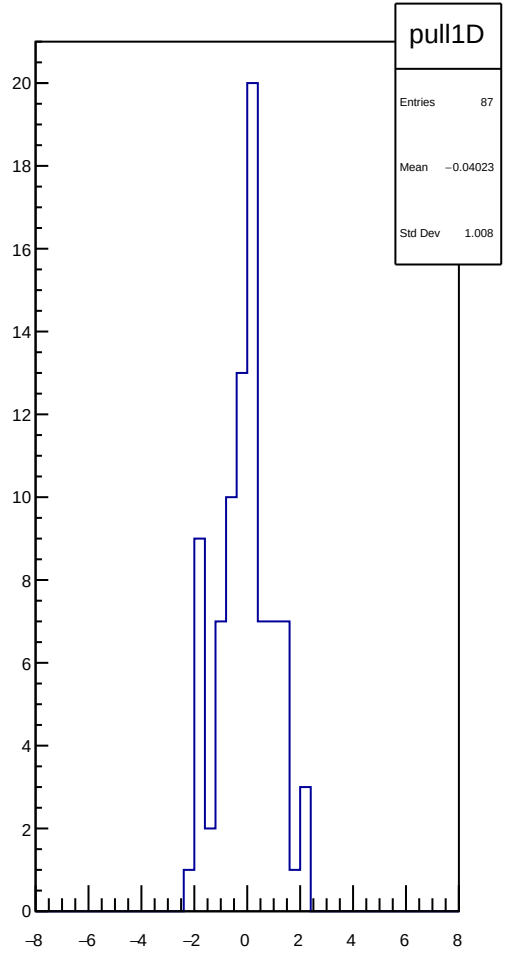

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 72.41 / 86
p0 −0.4809 ± 0.3122
pull
Entries 87
Mean −408.8
Std Dev 0

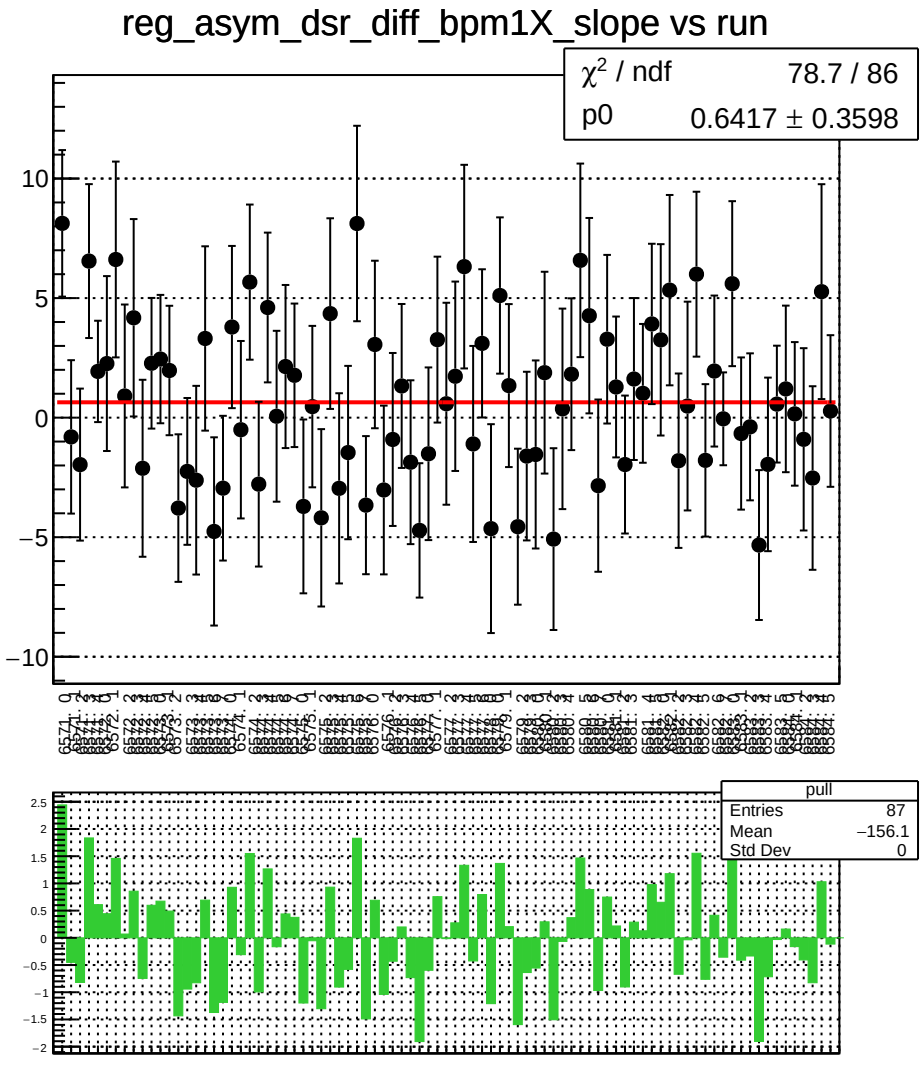

pull1D
Entries 87
Mean −0.003421
Std Dev 0.9123

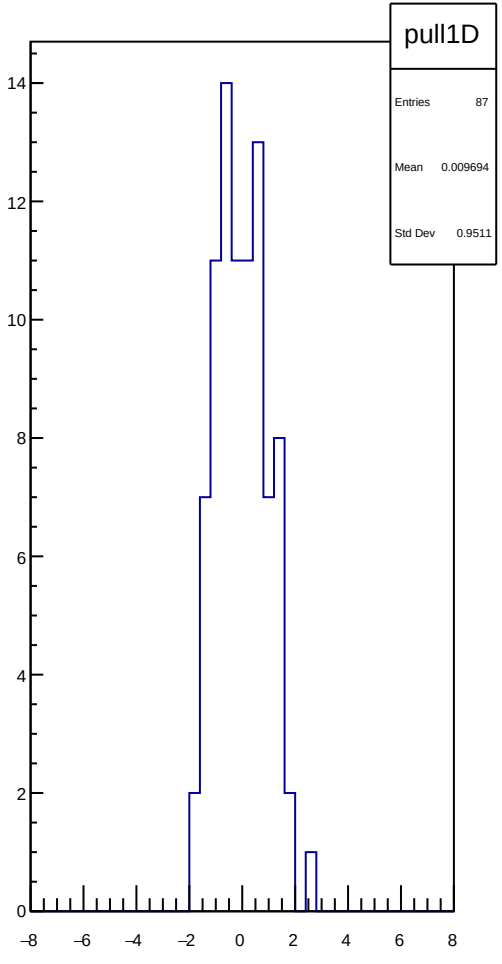

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 95.5 / 86
p0 −0.2718 ± 0.3045
pull
Entries 87
Mean 1545
Std Dev 0

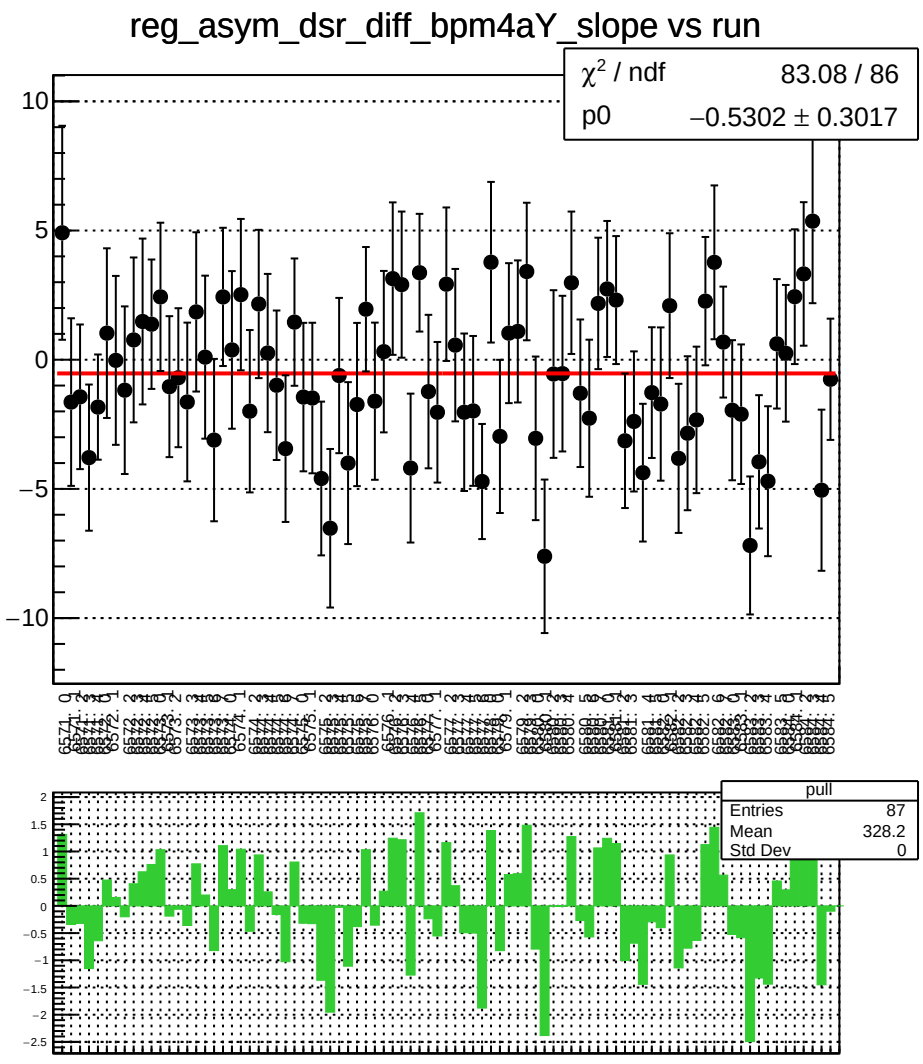

pull1D
Entries 87
Mean −0.001977
Std Dev 1.048

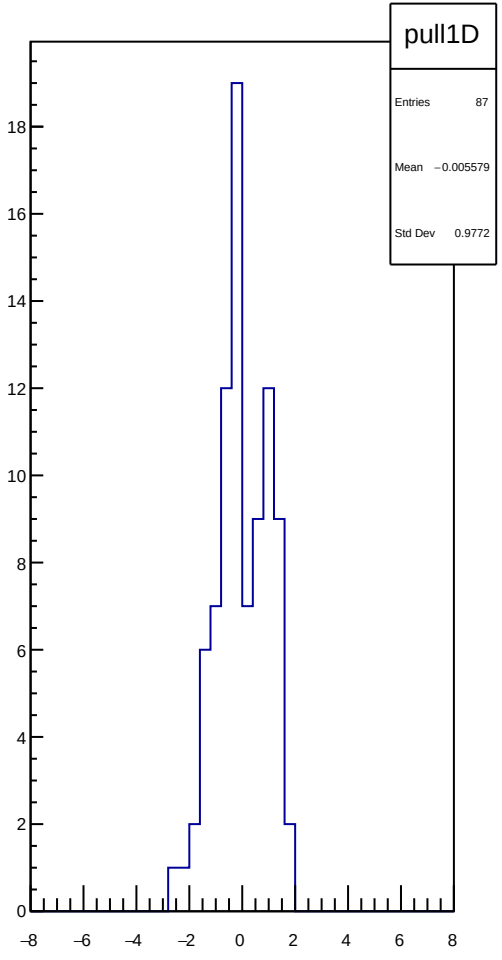

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 88.62 / 86
p0 0.03107 ± 0.01381
pull
Entries 87
Mean 63.86
Std Dev 0

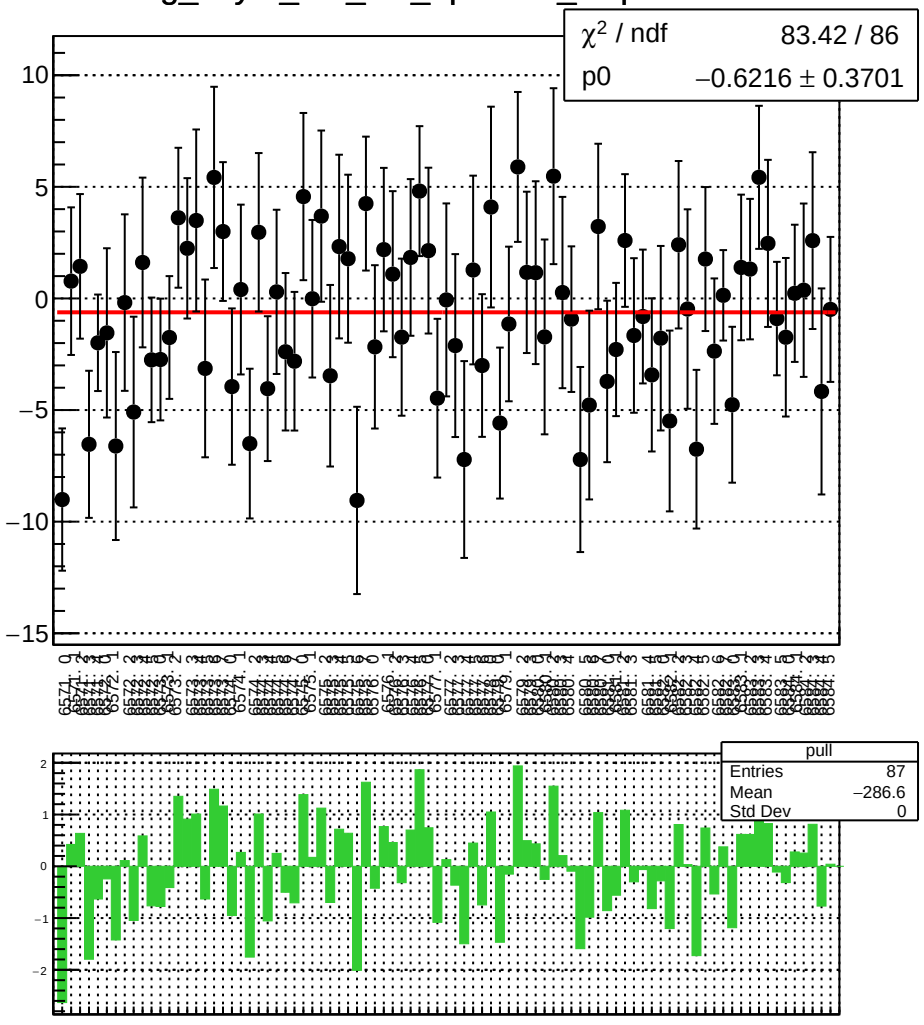

pull1D
Entries 87
Mean −0.04023
Std Dev 1.008

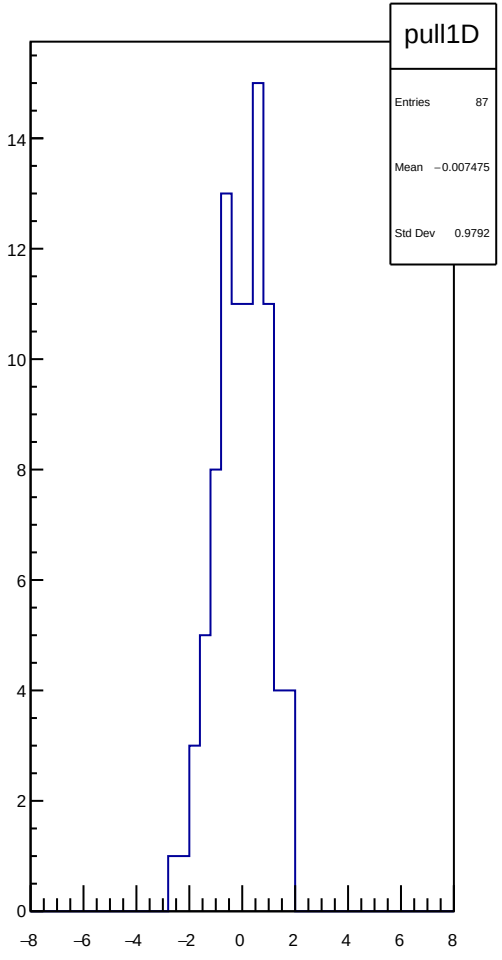

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 78.7 / 86
p0 0.6417 ± 0.3598
pull
Entries 87
Mean −156.1
Std Dev 0

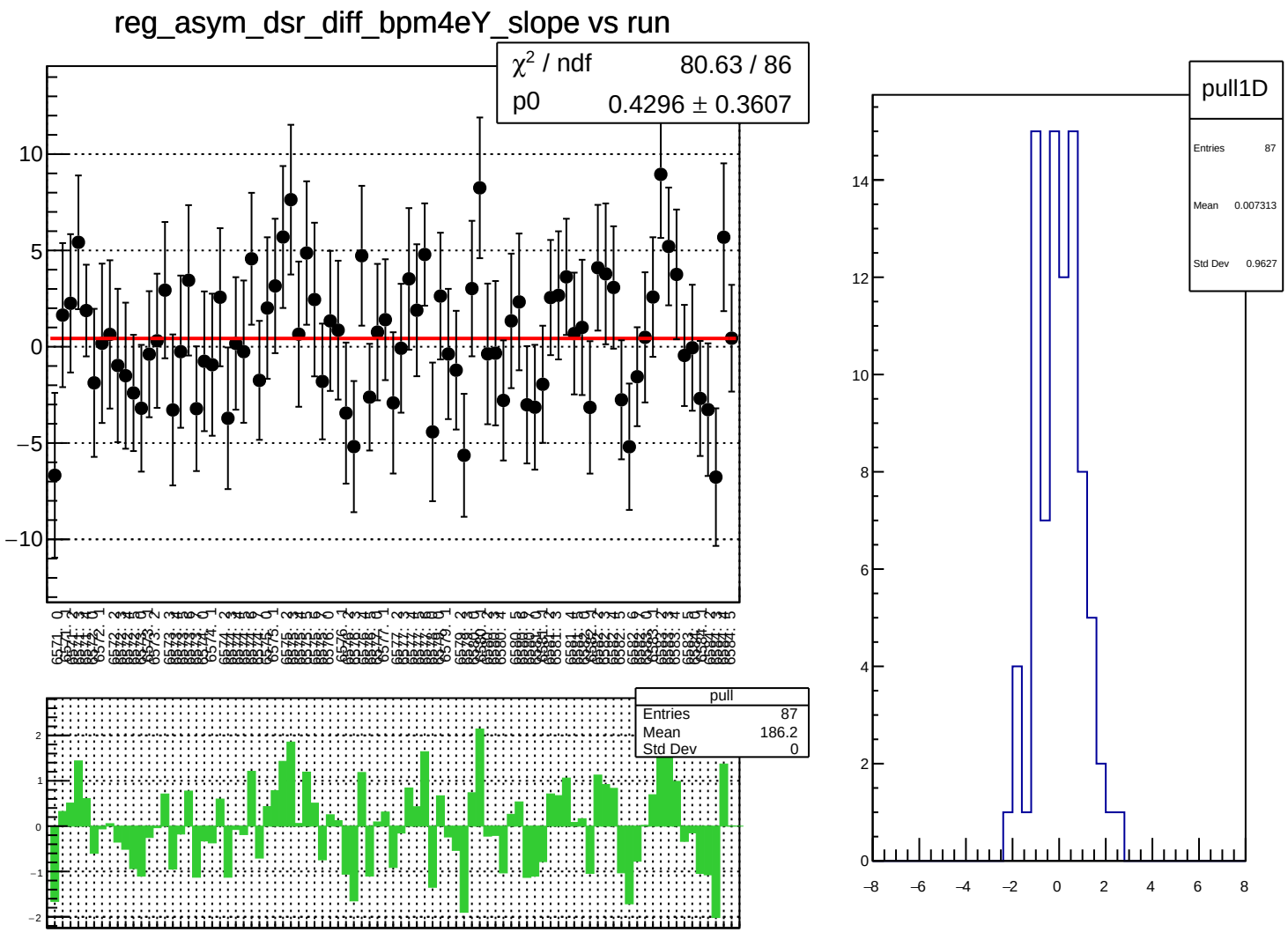

pull1D
Entries 87
Mean 0.009694
Std Dev 0.9511

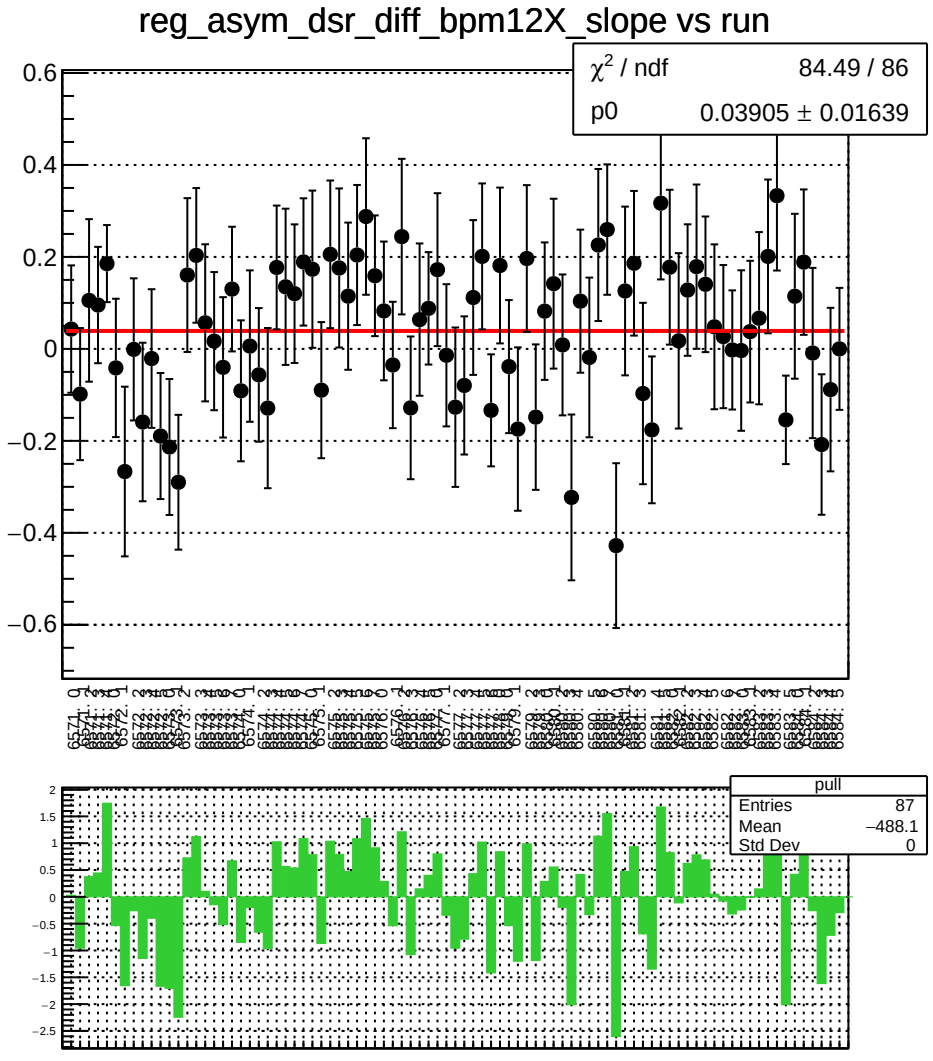

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 83.08 / 86
p0 −0.5302 ± 0.3017
pull
Entries 87
Mean 328.2
Std Dev 0

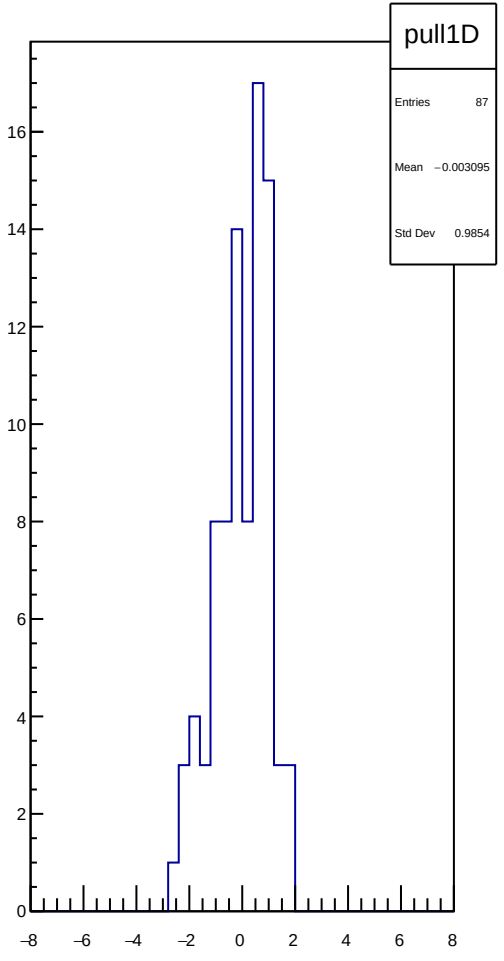

pull1D
Entries 87
Mean −0.005579
Std Dev 0.9772

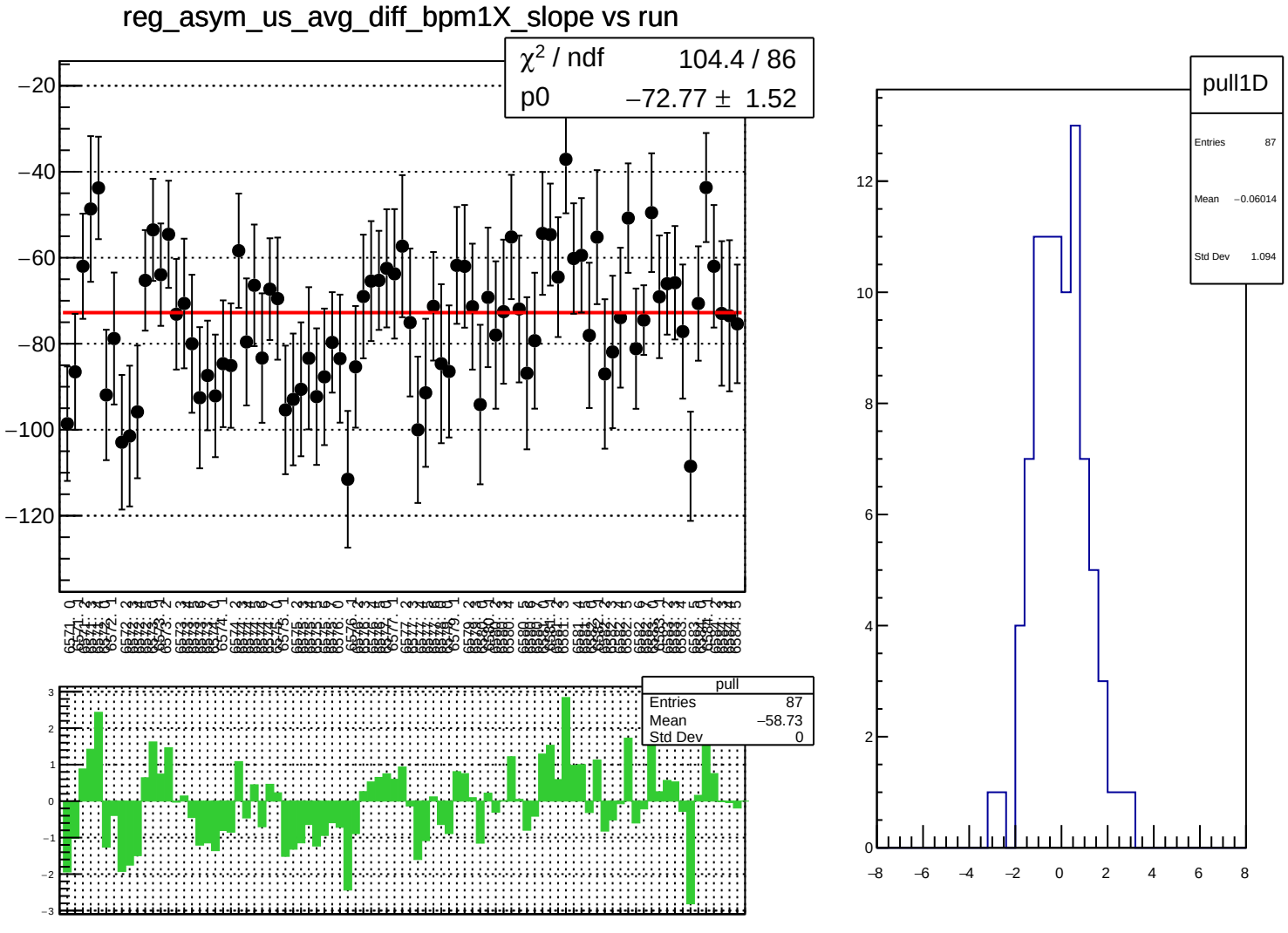

reg_asym_dsr_diff_bpm4eX_slope vs run
χ^2 / ndf 83.42 / 86
p0 −0.6216 ± 0.3701
pull
Entries 87
Mean −286.6
Std Dev 0

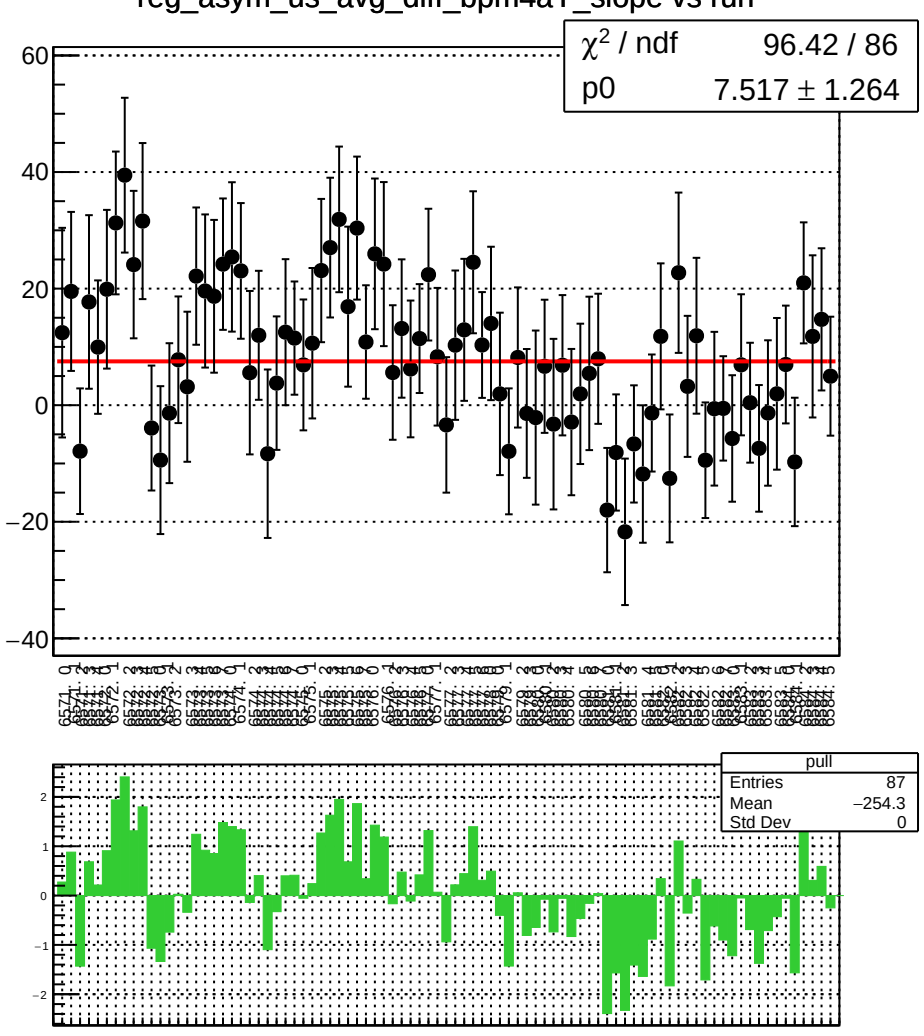

pull1D
Entries 87
Mean −0.007475
Std Dev 0.9792

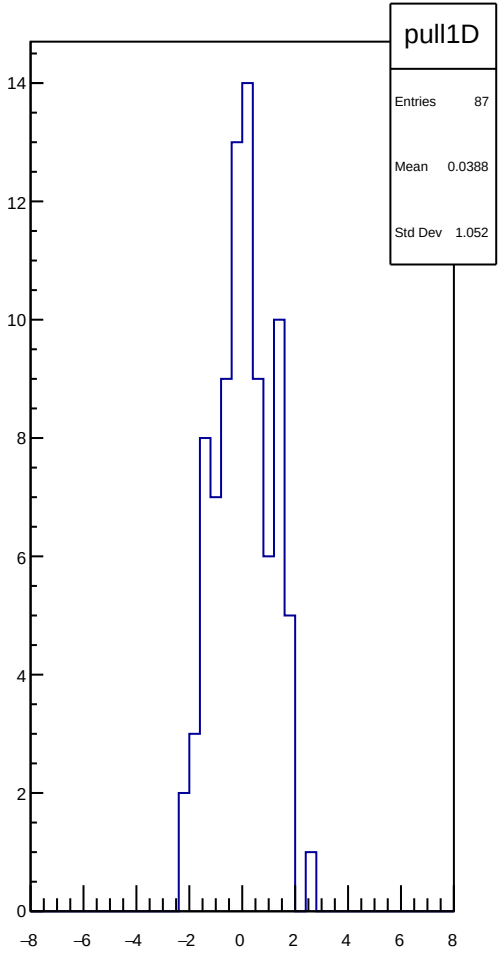

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 80.63 / 86
p0 0.4296 ± 0.3607
pull
Entries 87
Mean 186.2
Std Dev 0
pull1D
Entries 87
Mean 0.007313
Std Dev 0.9627

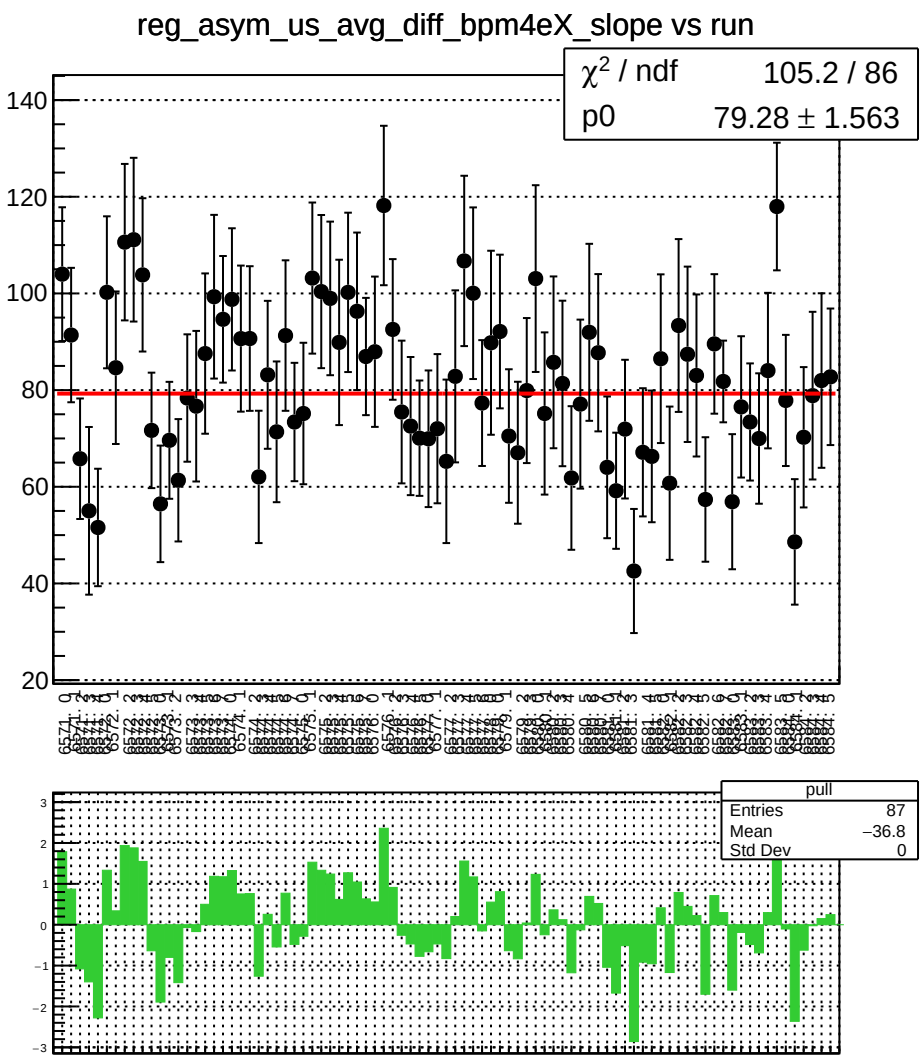

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 84.49 / 86
p0 0.03905 ± 0.01639
pull
Entries 87
Mean −488.1
Std Dev 0

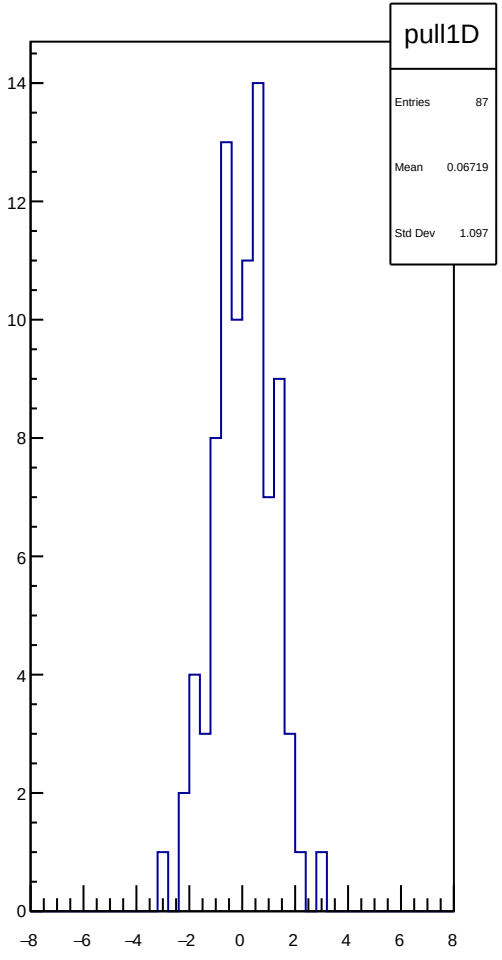

pull1D
Entries 87
Mean −0.003095
Std Dev 0.9854

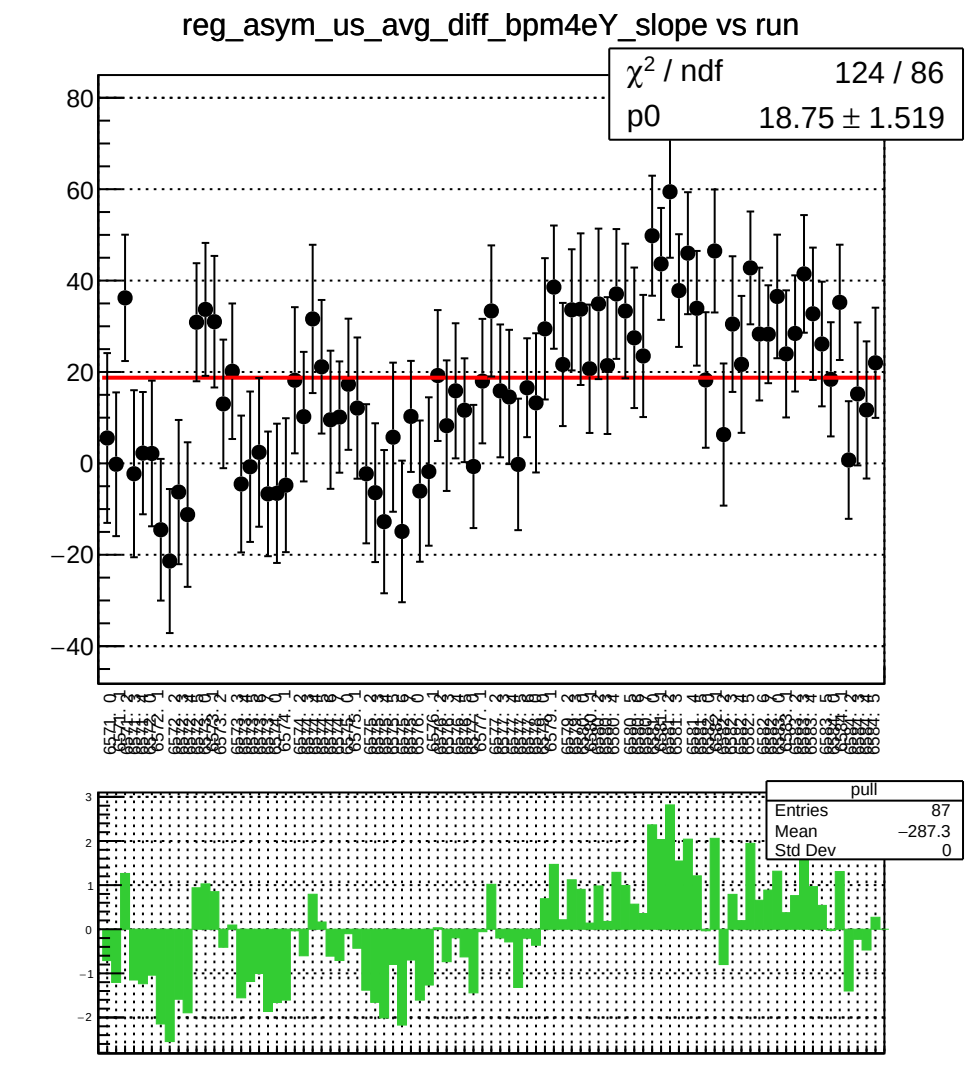

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 104.4 / 86
p0 −72.77 ± 1.52
pull
Entries 87
Mean −58.73
Std Dev 0
pull1D
Entries 87
Mean −0.06014
Std Dev 1.094

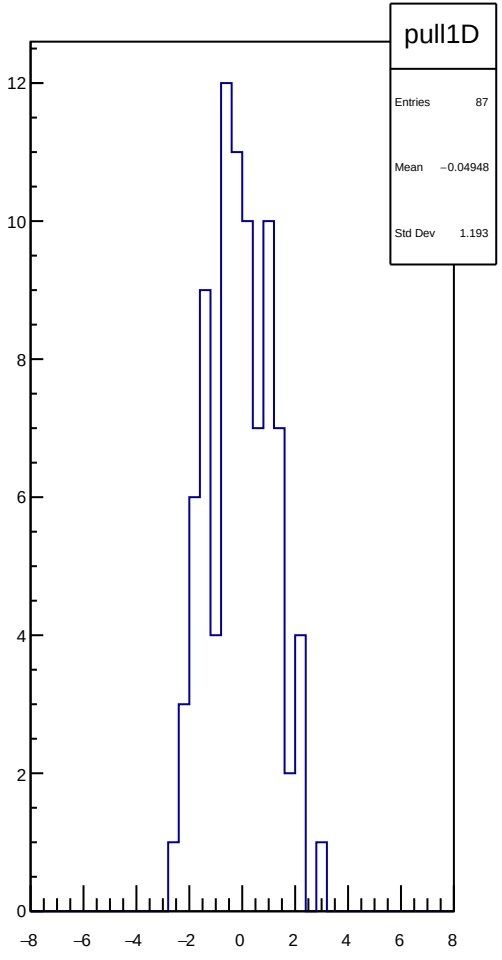

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 96.42 / 86
p0 7.517 ± 1.264
pull
Entries 87
Mean −254.3
Std Dev 0

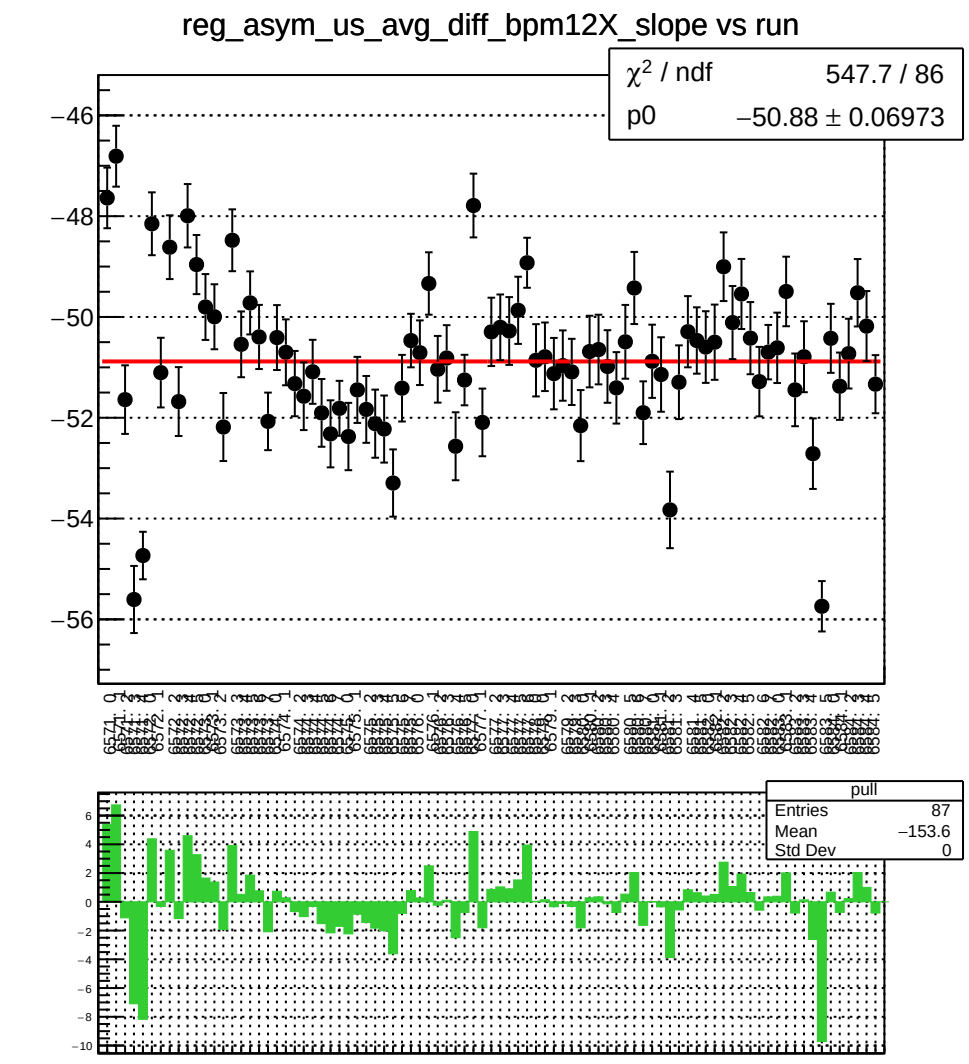

pull1D
Entries 87
Mean 0.0388
Std Dev 1.052

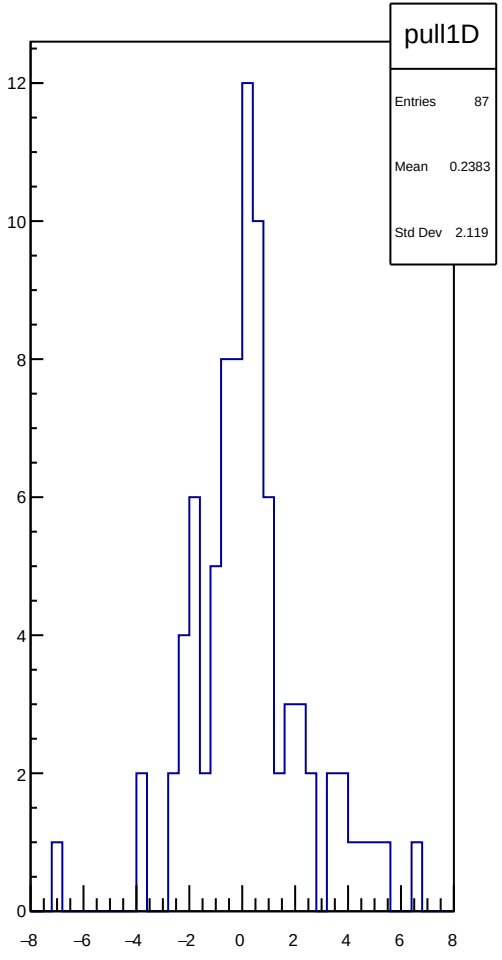

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 105.2 / 86
p0 79.28 ± 1.563
pull
Entries 87
Mean −36.8
Std Dev 0

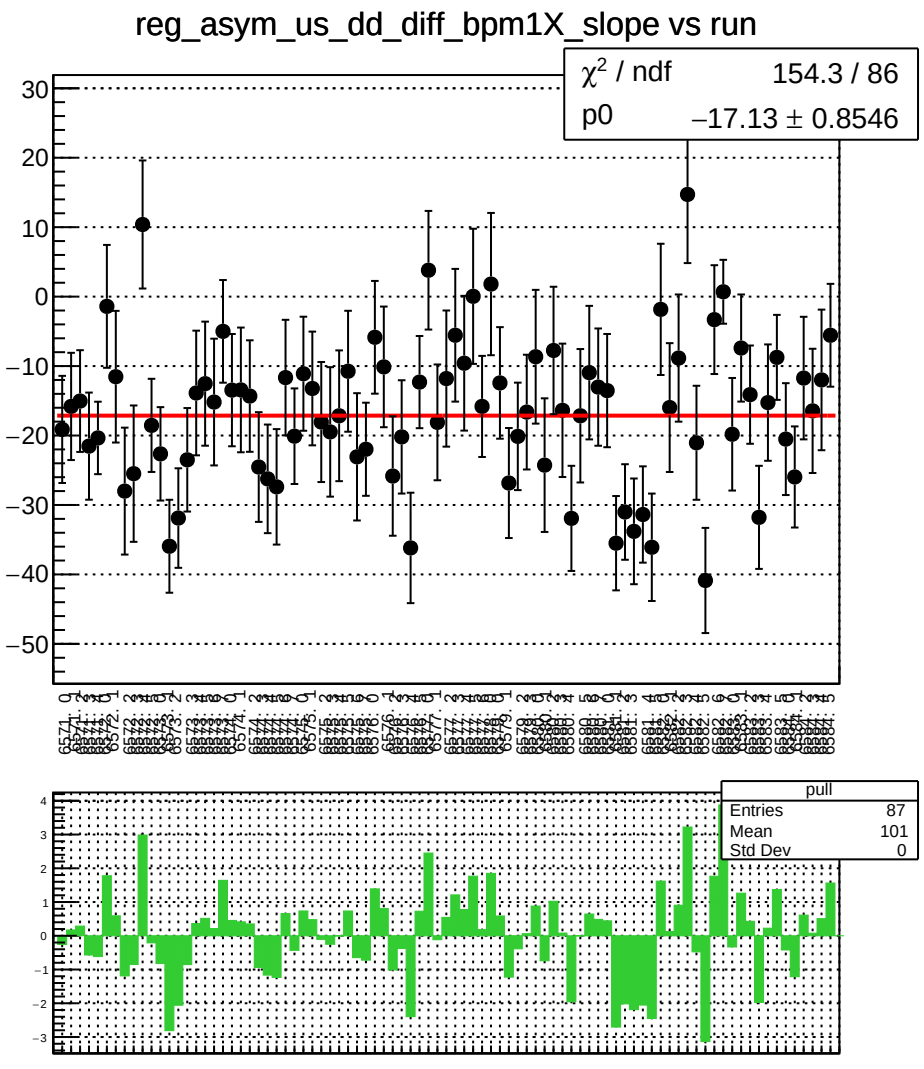

pull1D
Entries 87
Mean 0.06719
Std Dev 1.097

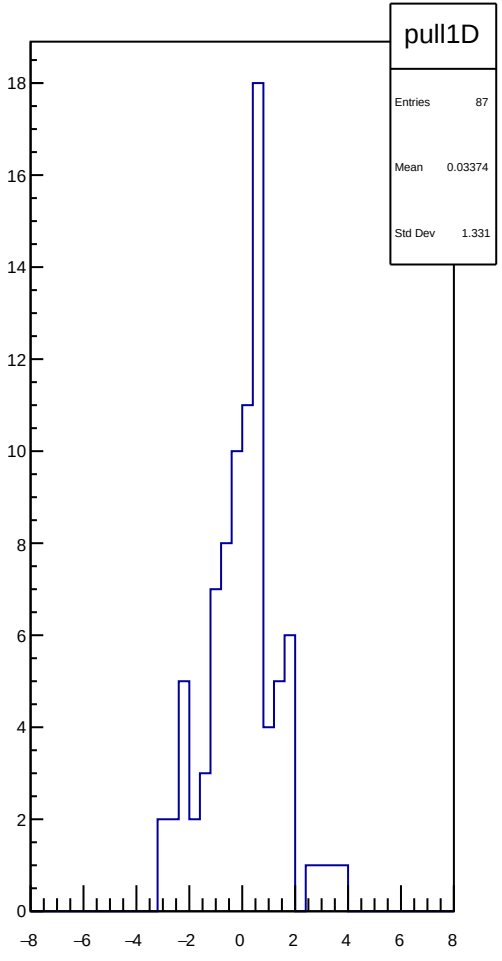

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 124 / 86
p0 18.75 ± 1.519
pull
Entries 87
Mean −287.3
Std Dev 0

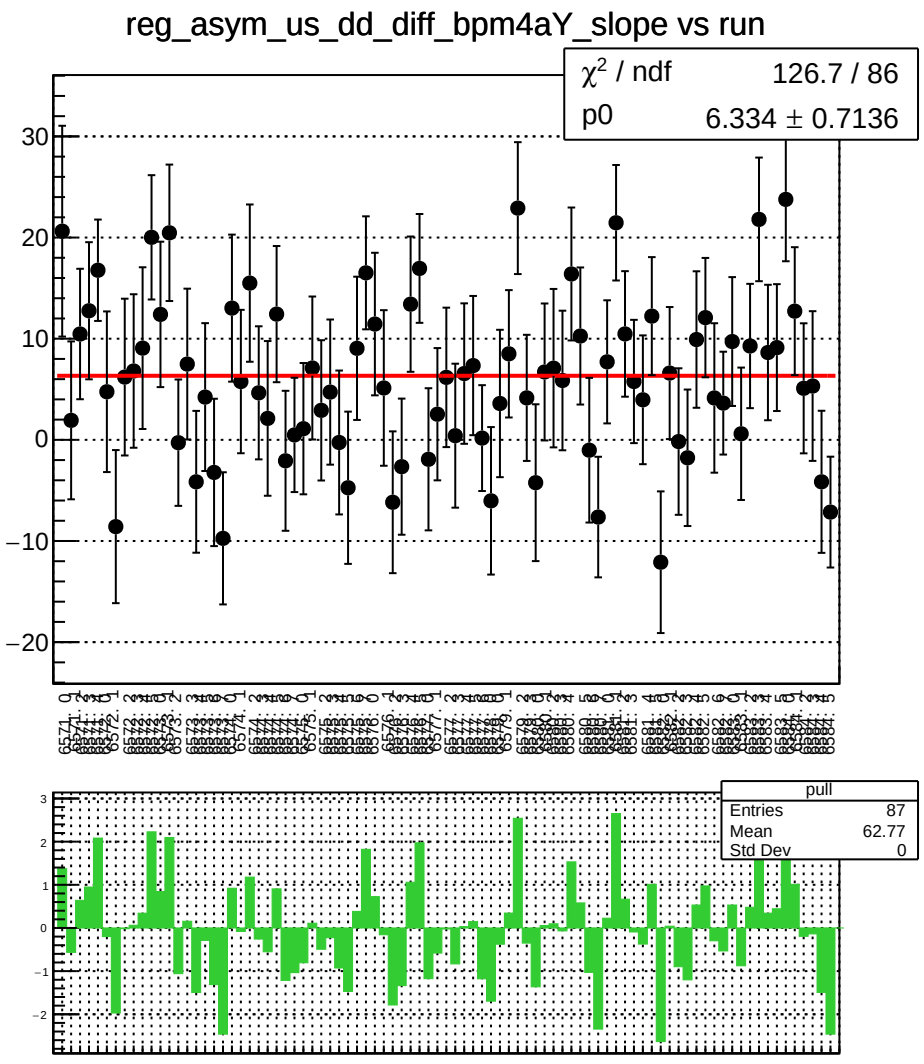

pull1D
Entries 87
Mean −0.04948
Std Dev 1.193

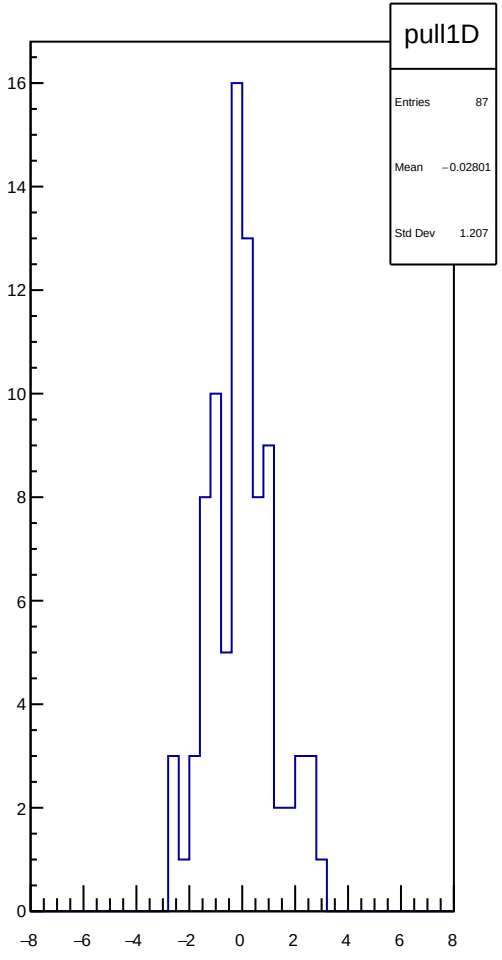

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 547.7 / 86
p0 −50.88 ± 0.06973
pull
Entries 87
Mean −153.6
Std Dev 0

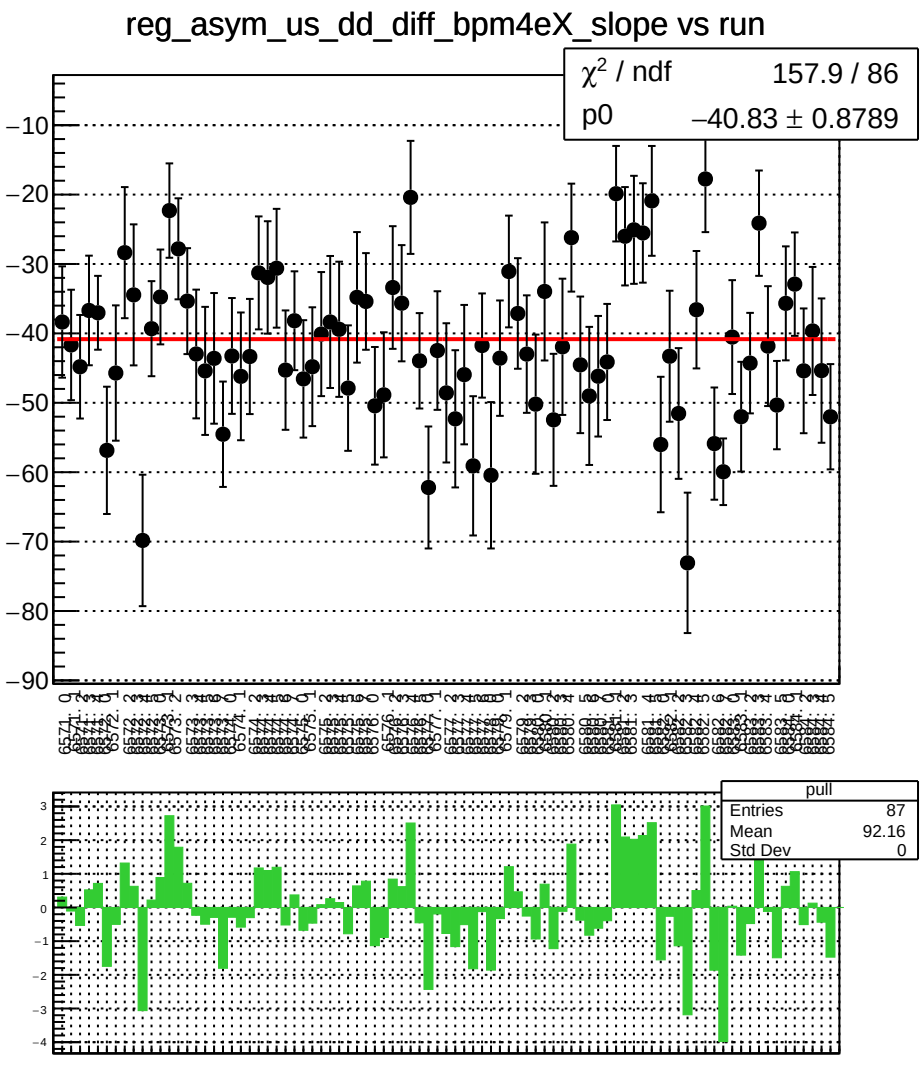

pull1D
Entries 87
Mean 0.2383
Std Dev 2.119

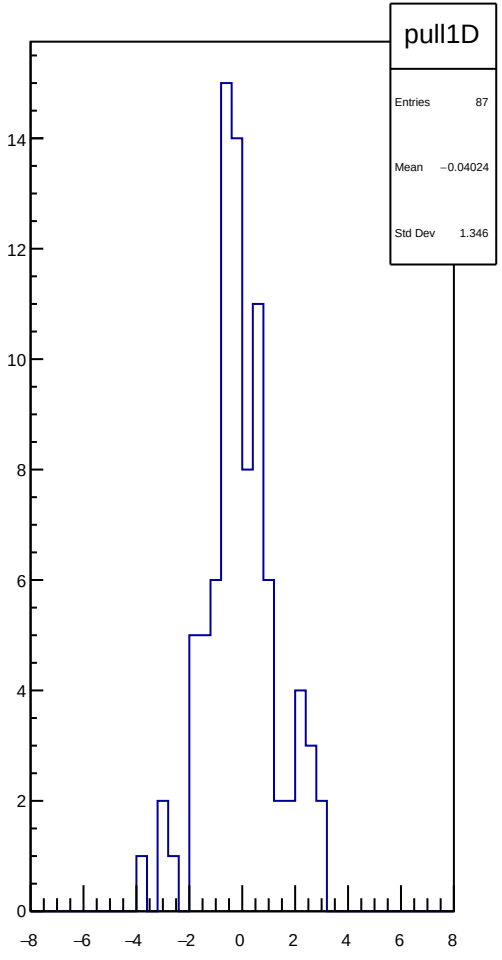

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 154.3 / 86
p0 −17.13 ± 0.8546
pull
Entries 87
Mean 101
Std Dev 0

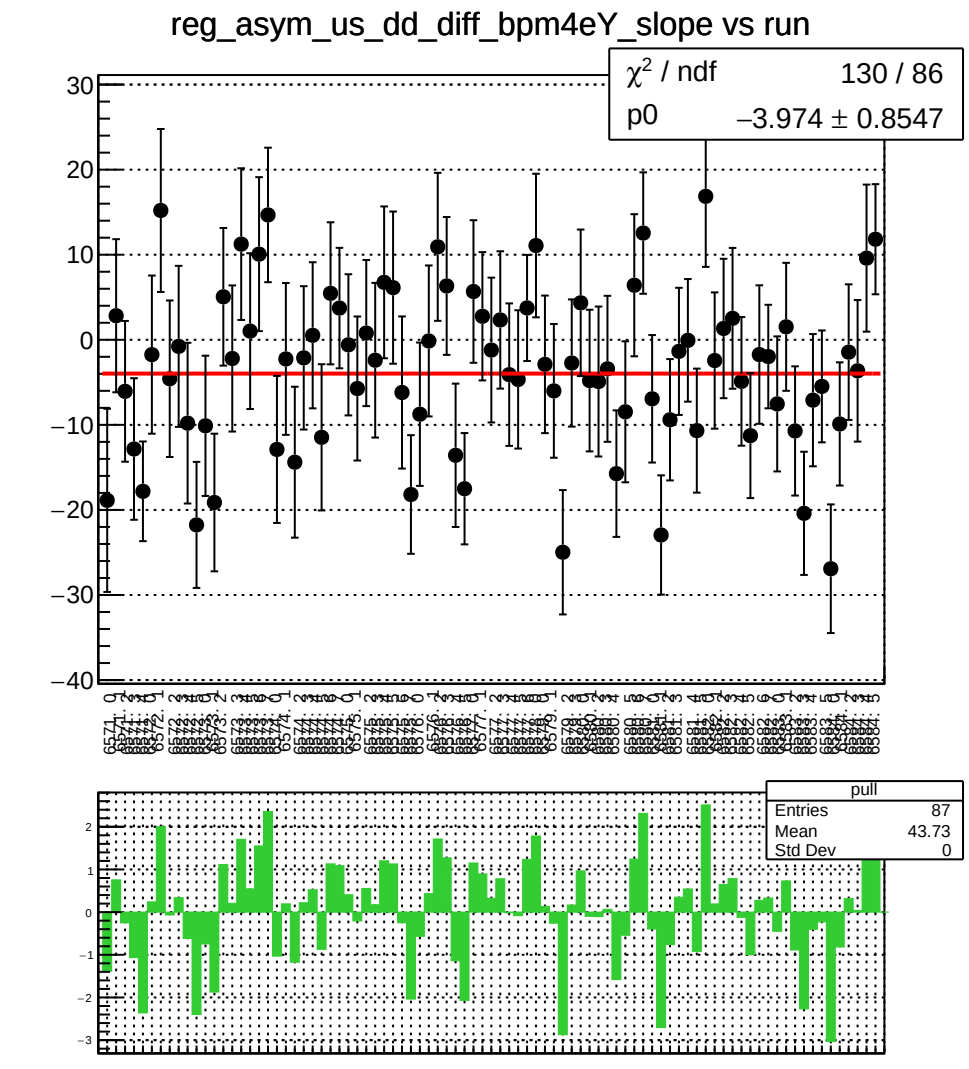

pull1D
Entries 87
Mean 0.03374
Std Dev 1.331

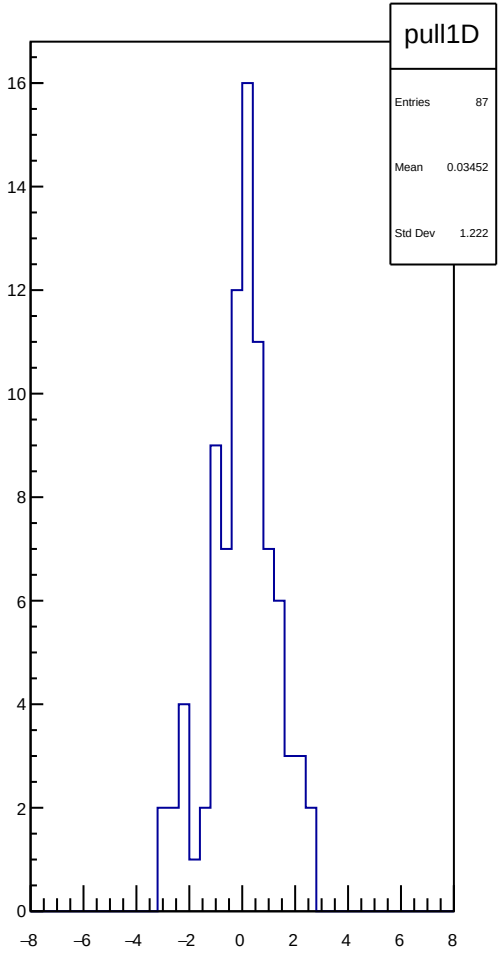

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 126.7 / 86
p0 6.334 ± 0.7136
pull
Entries 87
Mean 62.77
Std Dev 0

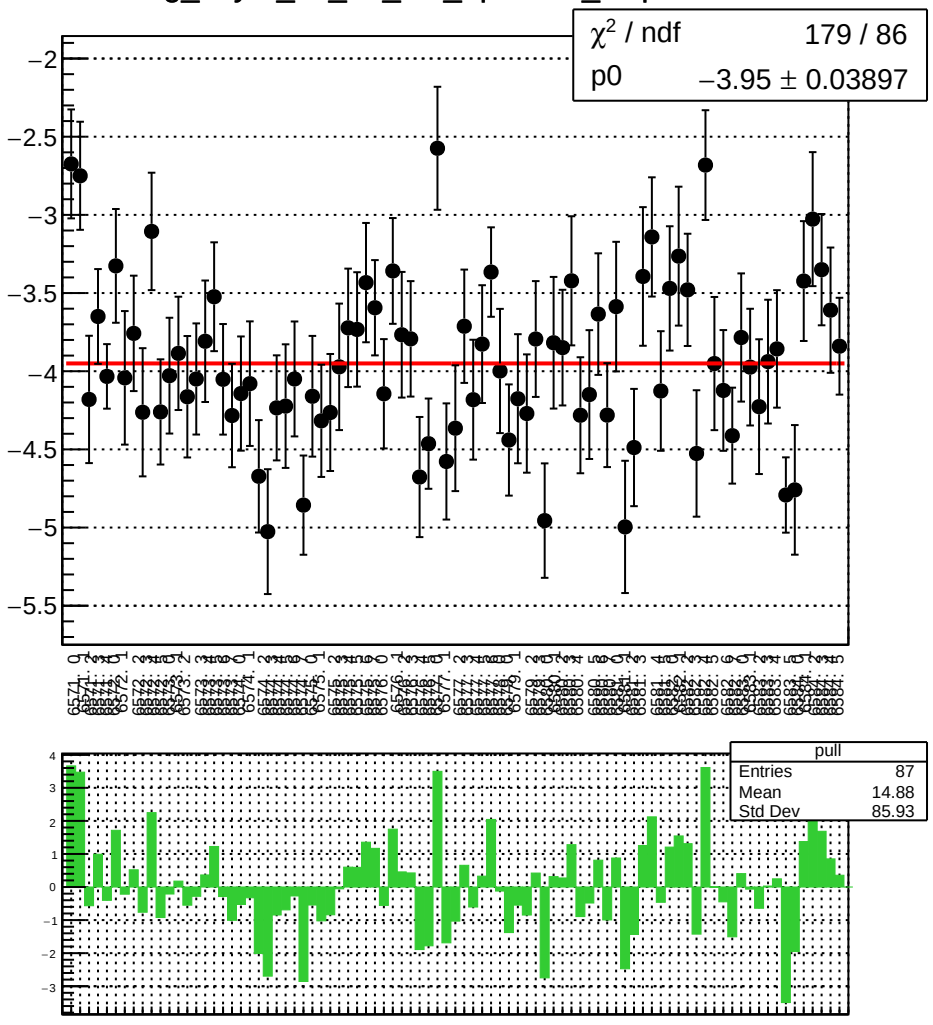

pull1D
Entries 87
Mean −0.02801
Std Dev 1.207

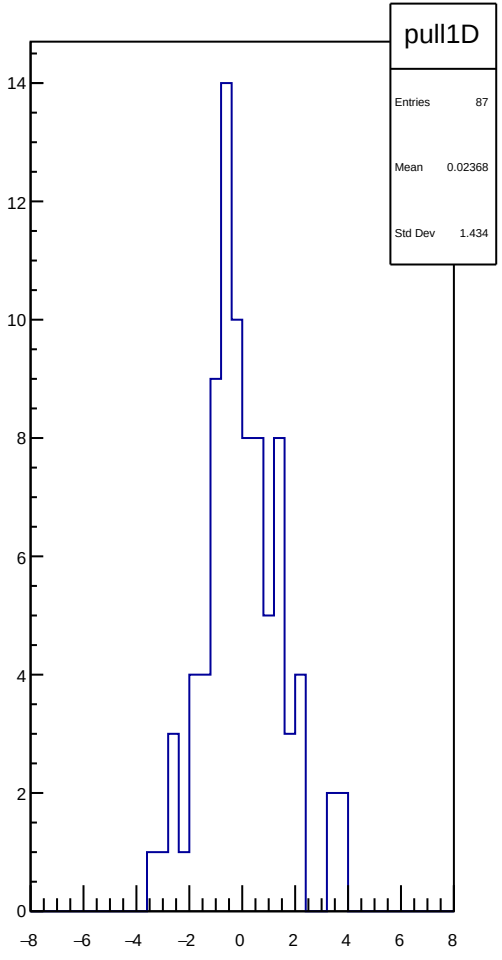

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 157.9 / 86
p0 −40.83 ± 0.8789
pull
Entries 87
Mean 92.16
Std Dev 0

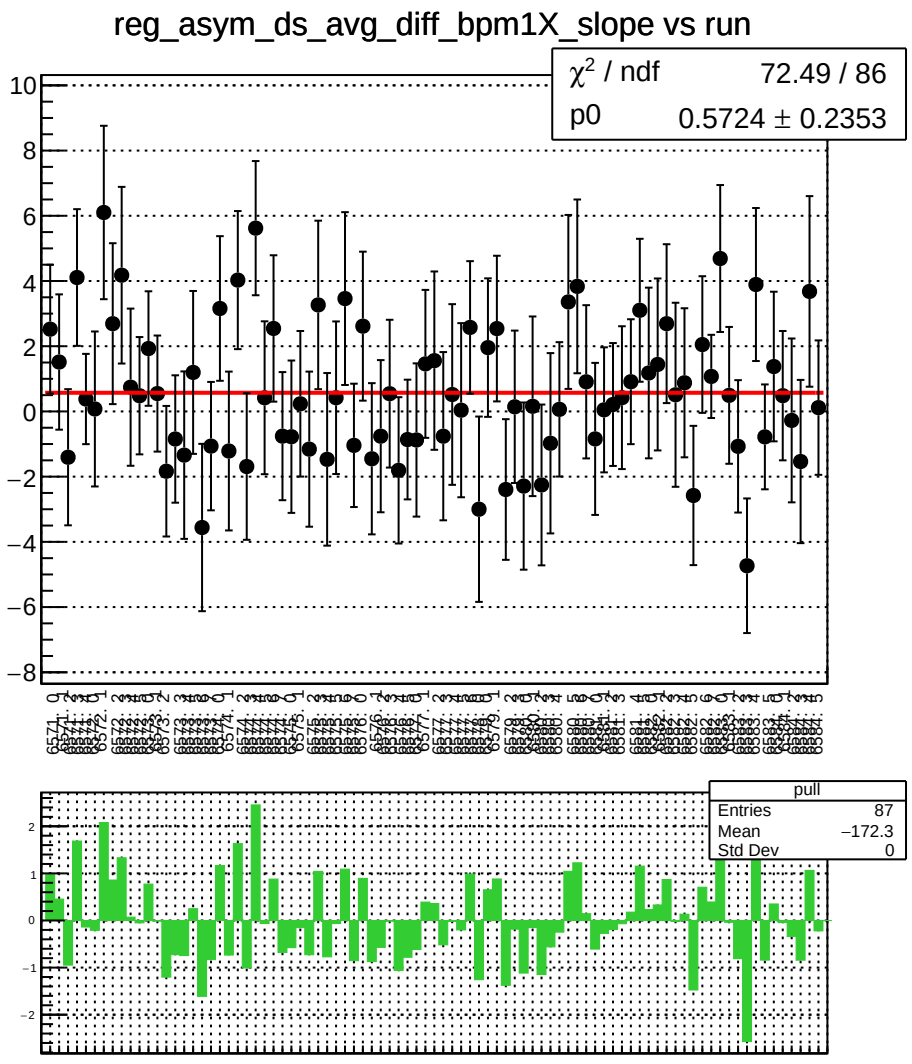

pull1D
Entries 87
Mean −0.04024
Std Dev 1.346

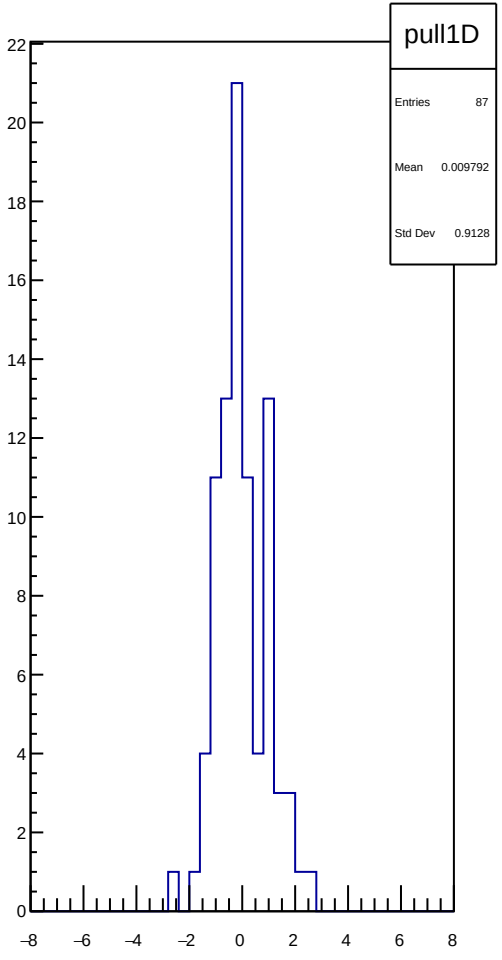

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 130 / 86
p0 −3.974 ± 0.8547
pull
Entries 87
Mean 43.73
Std Dev 0

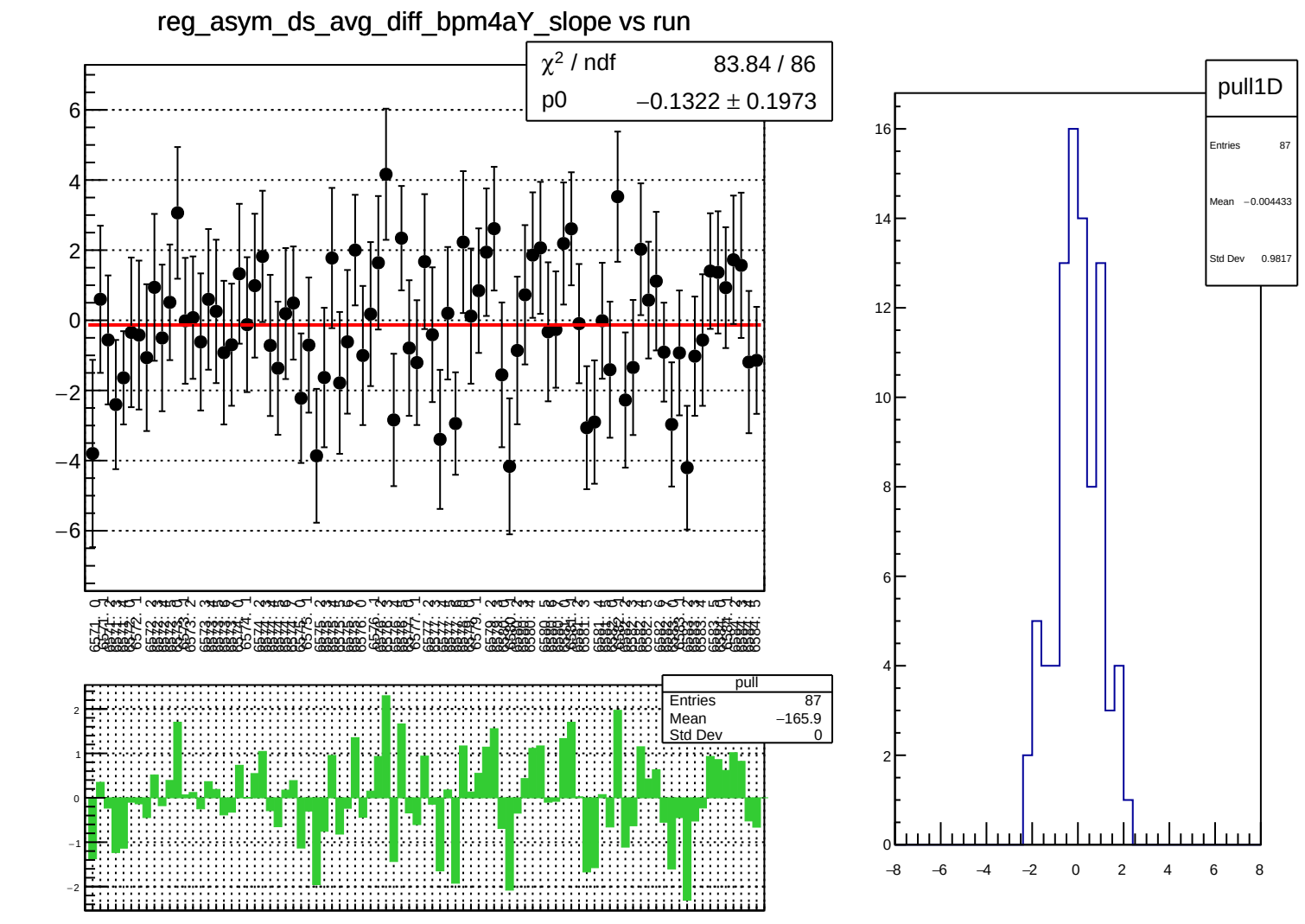

pull1D
Entries 87
Mean 0.03452
Std Dev 1.222

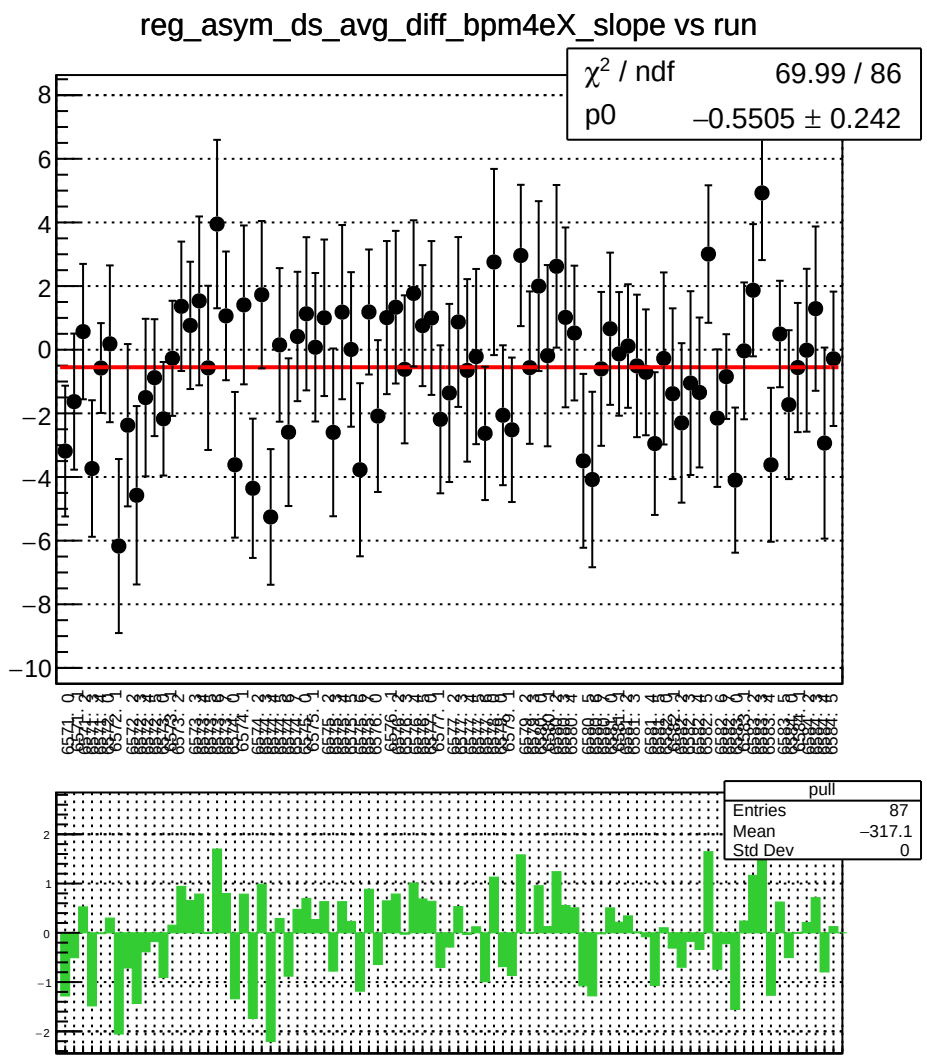

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 179 / 86
p0 −3.95 ± 0.03897
pull
Entries 87
Mean 14.88
Std Dev 85.93

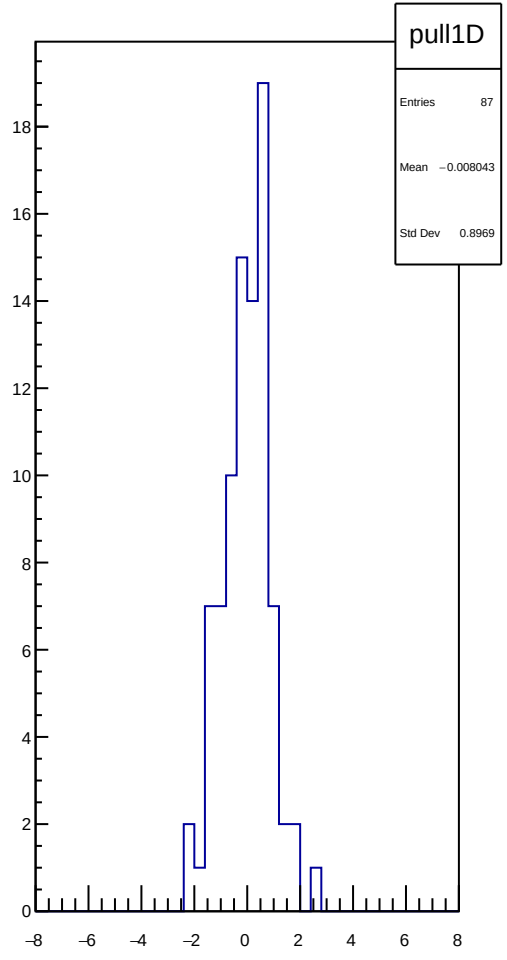

pull1D
Entries 87
Mean 0.02368
Std Dev 1.434

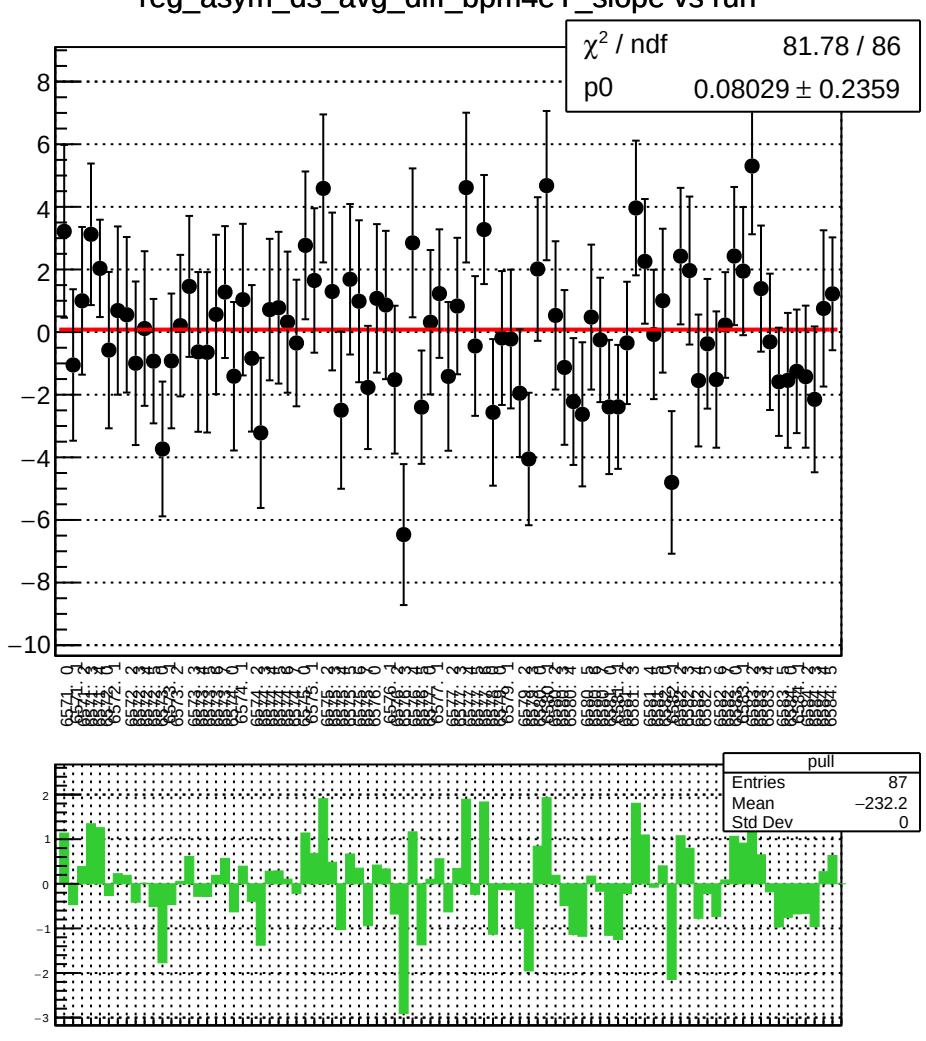

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 72.49 / 86
p0 0.5724 ± 0.2353
pull
Entries 87
Mean −172.3
Std Dev 0

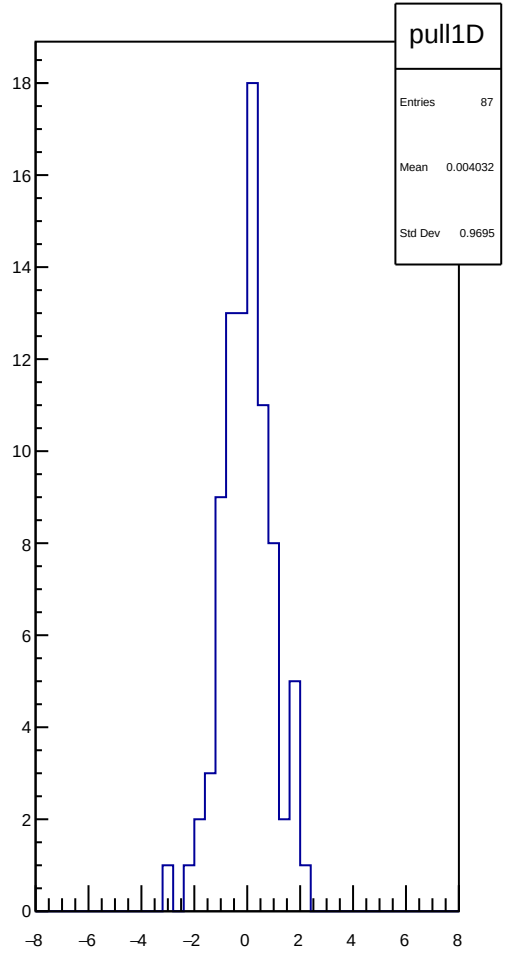

pull1D
Entries 87
Mean 0.009792
Std Dev 0.9128

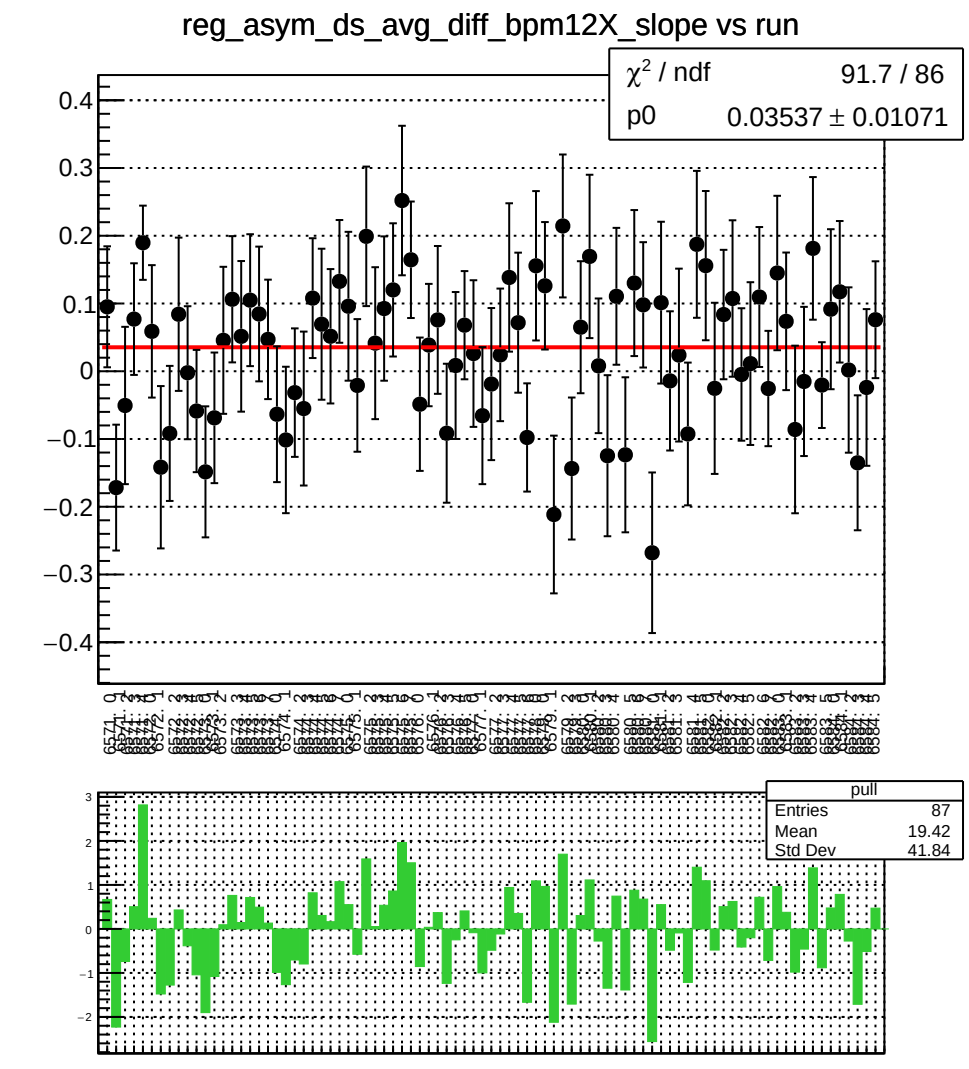

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.84 / 86
p0 −0.1322 ± 0.1973
pull
Entries 87
Mean −165.9
Std Dev 0
pull1D
Entries 87
Mean −0.004433
Std Dev 0.9817

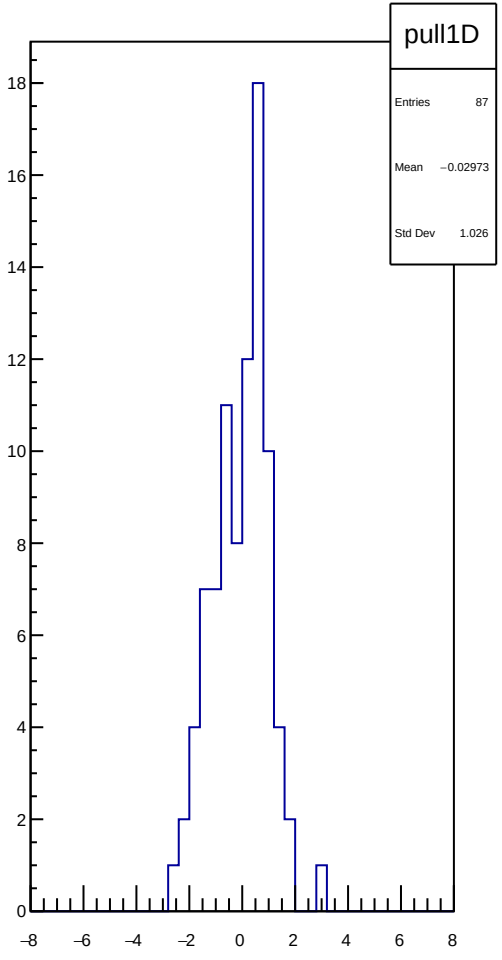

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.99 / 86
p0 −0.5505 ± 0.242
pull
Entries 87
Mean −317.1
Std Dev 0

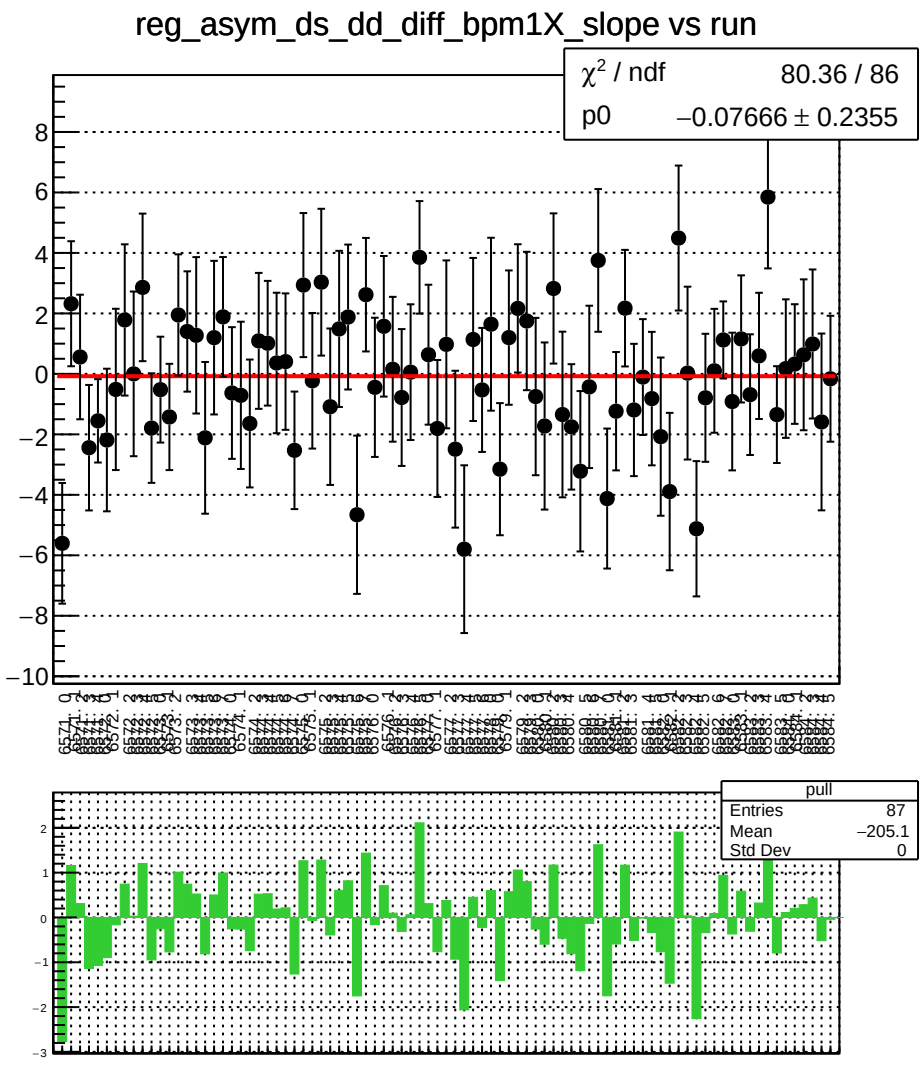

pull1D
Entries 87
Mean −0.008043
Std Dev 0.8969

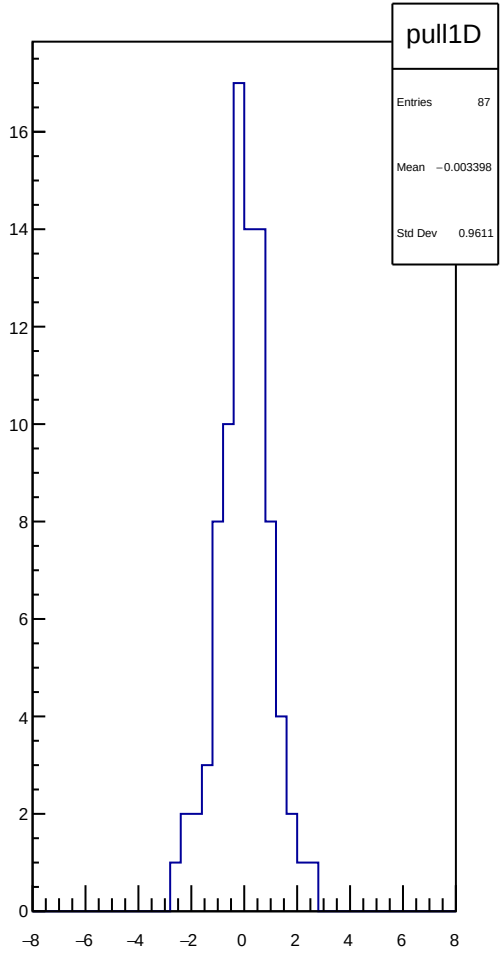

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.78 / 86
p0 0.08029 ± 0.2359
pull
Entries 87
Mean −232.2
Std Dev 0

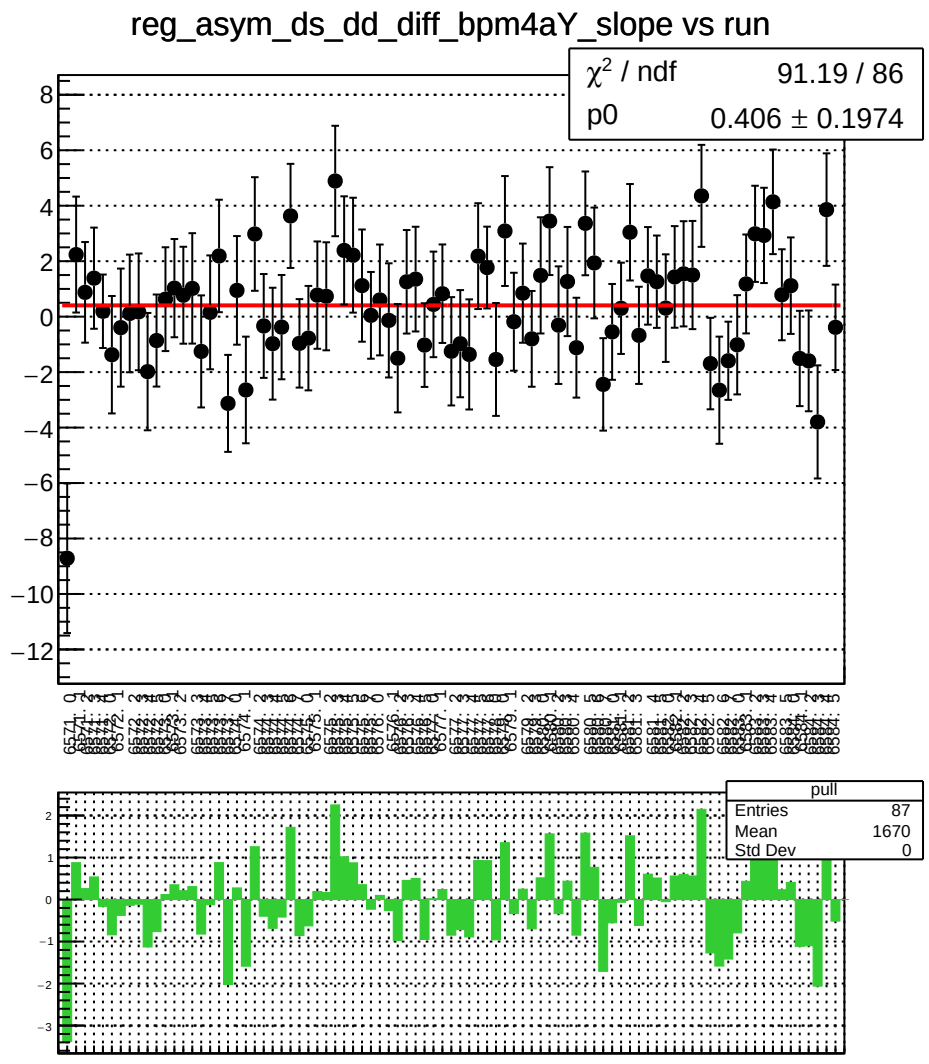

pull1D
Entries 87
Mean 0.004032
Std Dev 0.9695

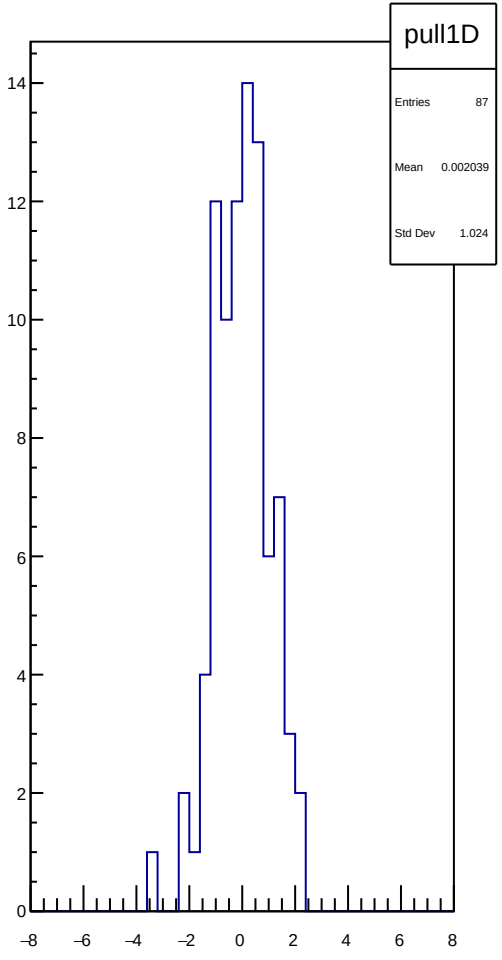

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 91.7 / 86
p0 0.03537 ± 0.01071
pull
Entries 87
Mean 19.42
Std Dev 41.84

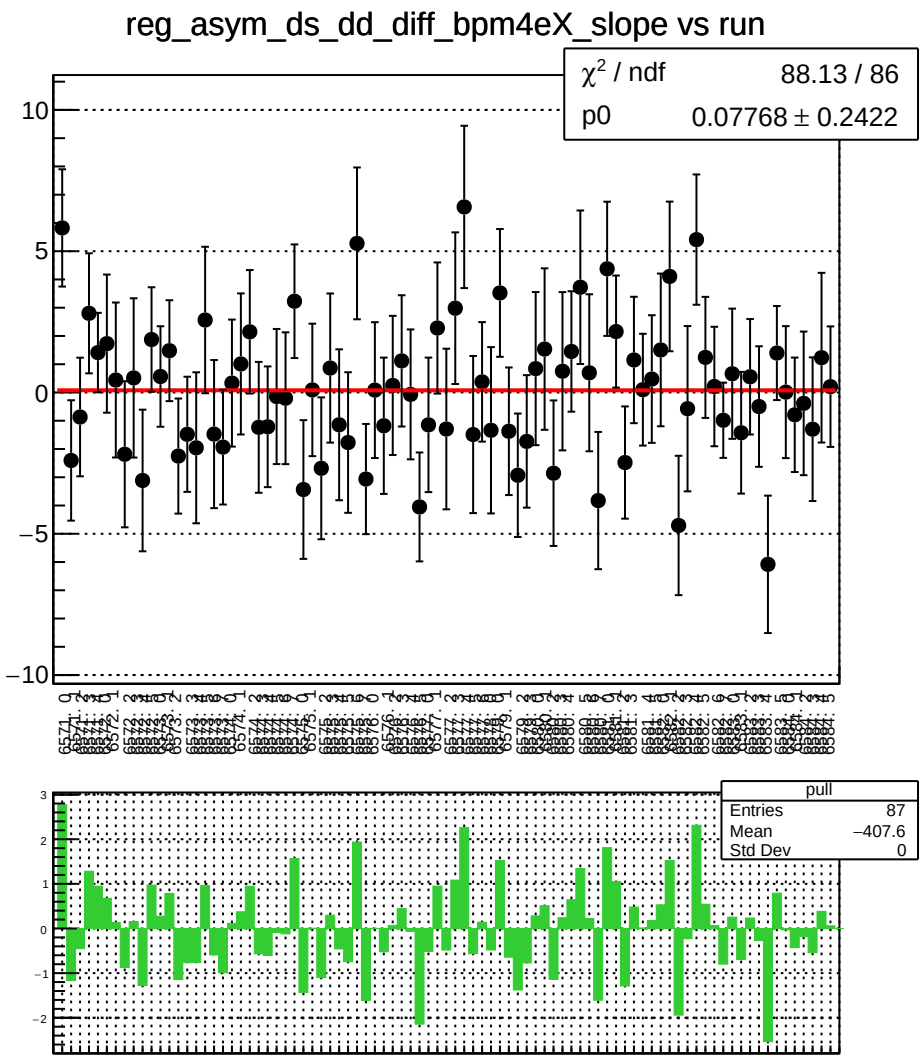

pull1D
Entries 87
Mean −0.02973
Std Dev 1.026

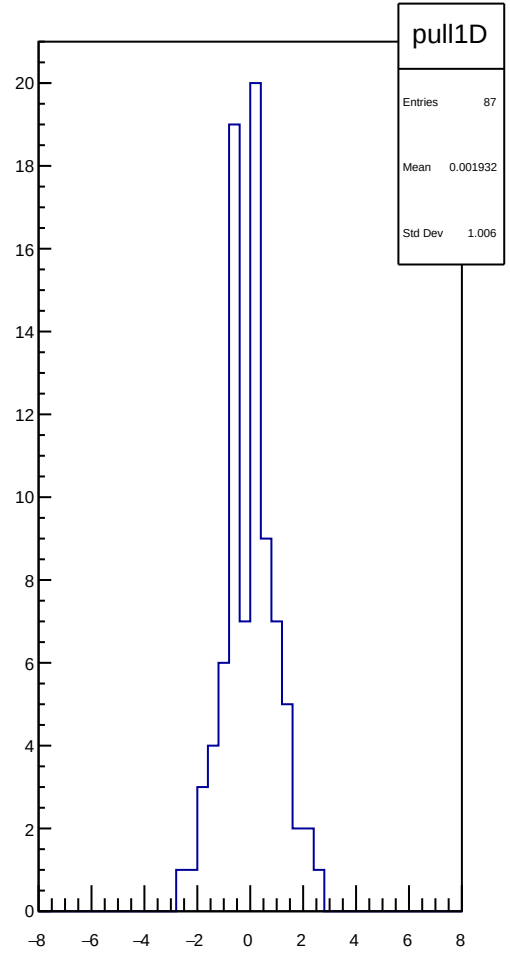

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 80.36 / 86
p0 −0.07666 ± 0.2355
pull
Entries 87
Mean −205.1
Std Dev 0

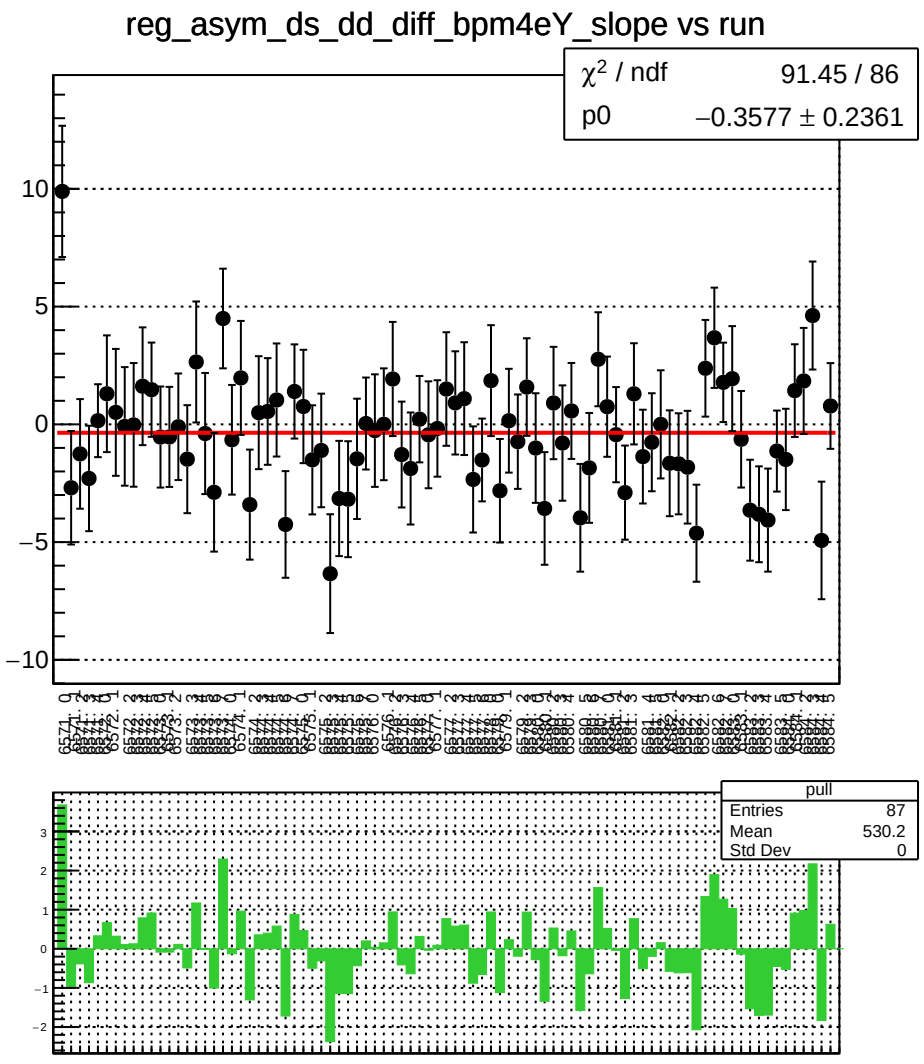

pull1D
Entries 87
Mean −0.003398
Std Dev 0.9611

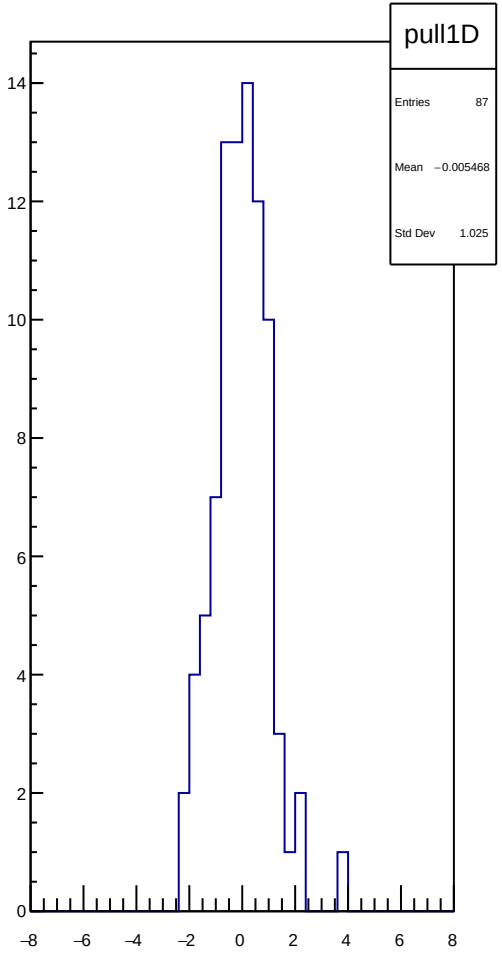

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.19 / 86
p0 0.406 ± 0.1974
pull
Entries 87
Mean 1670
Std Dev 0

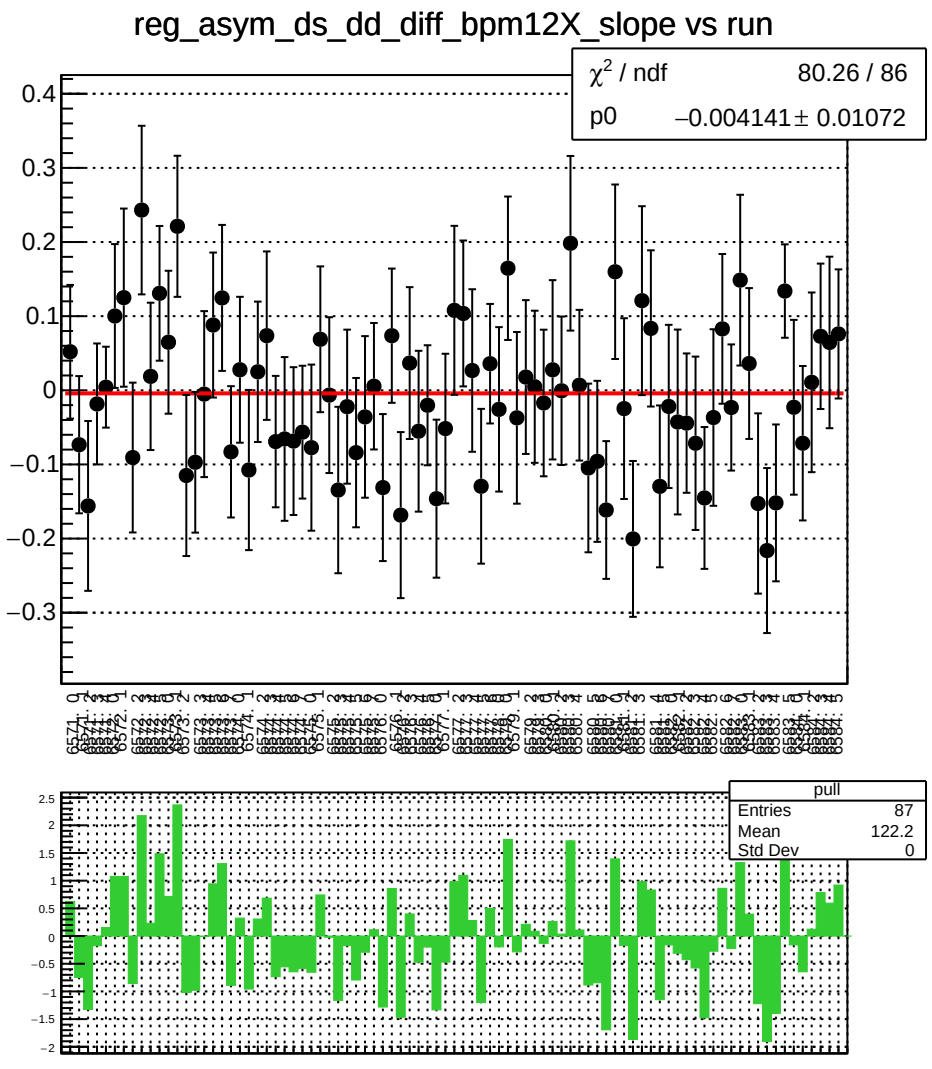

pull1D
Entries 87
Mean 0.002039
Std Dev 1.024

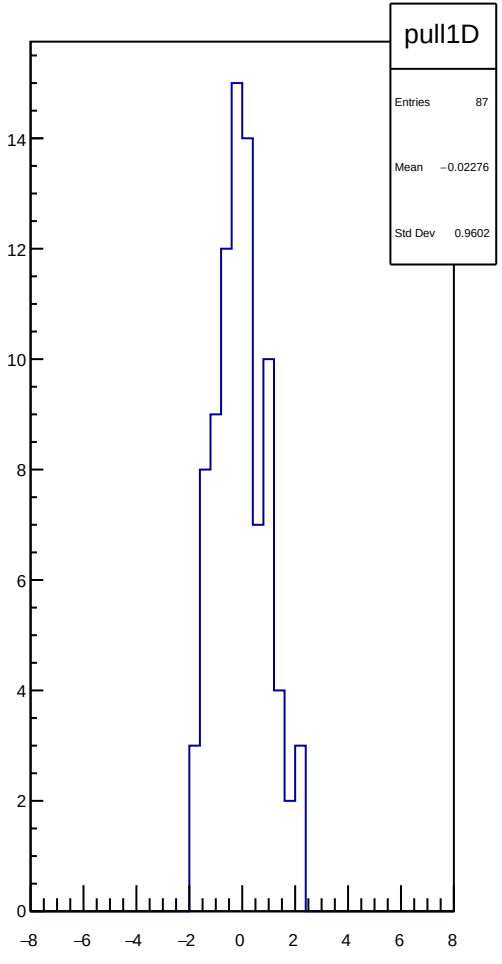

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.13 / 86
p0 0.07768 ± 0.2422
pull
Entries 87
Mean −407.6
Std Dev 0

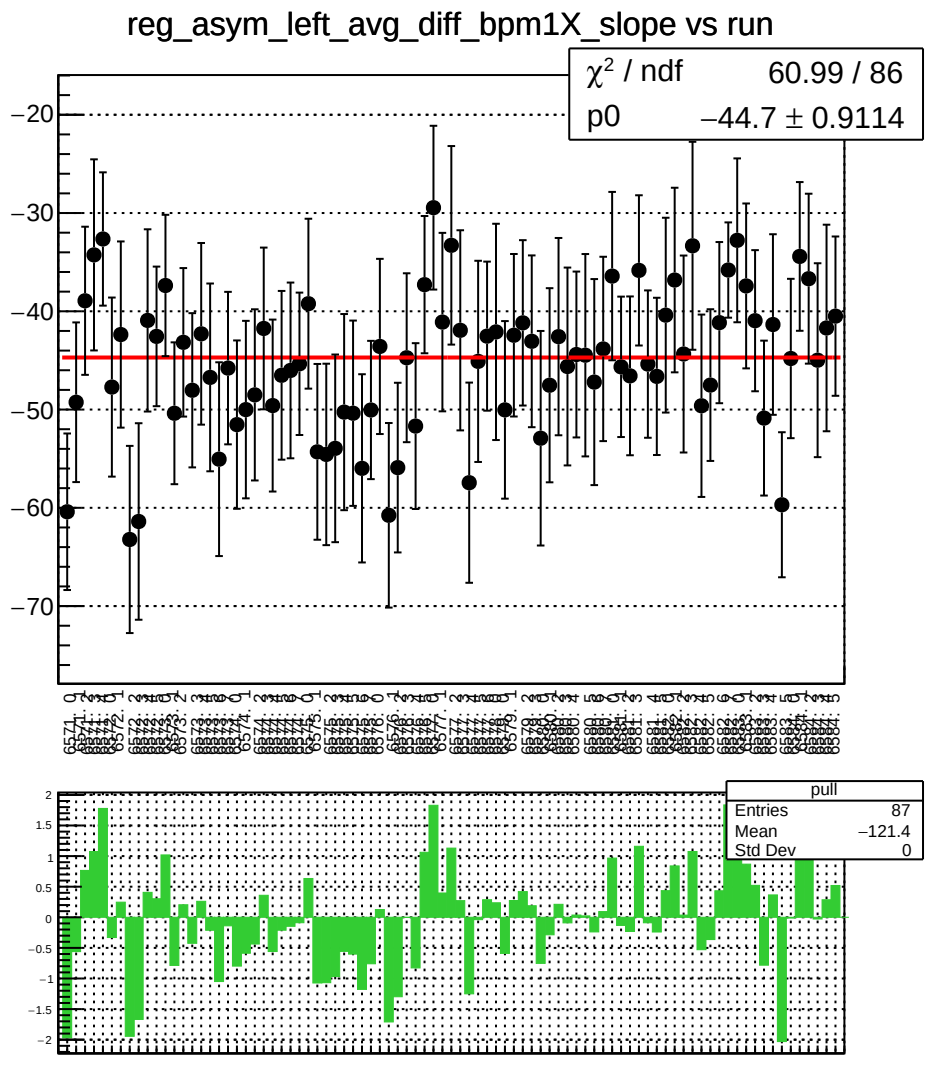

pull1D
Entries 87
Mean 0.001932
Std Dev 1.006

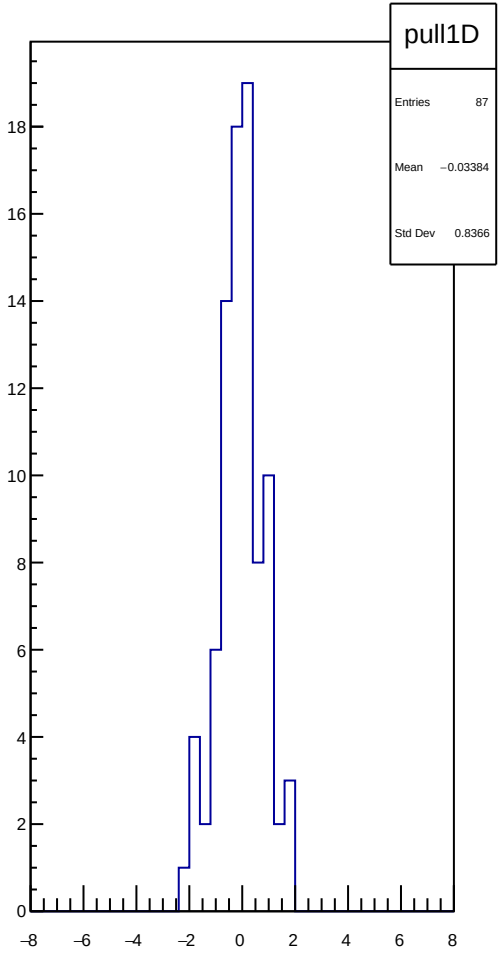

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.45 / 86
p0 −0.3577 ± 0.2361
pull
Entries 87
Mean 530.2
Std Dev 0

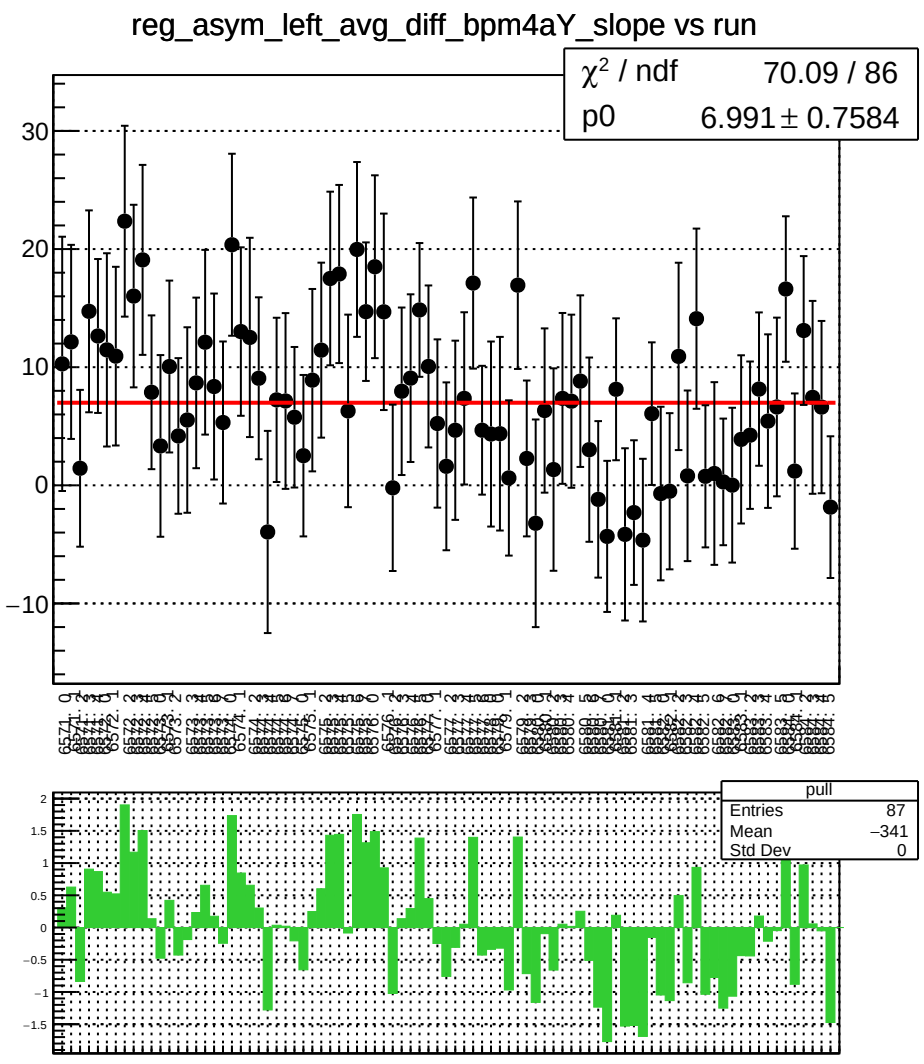

pull1D
Entries 87
Mean −0.005468
Std Dev 1.025

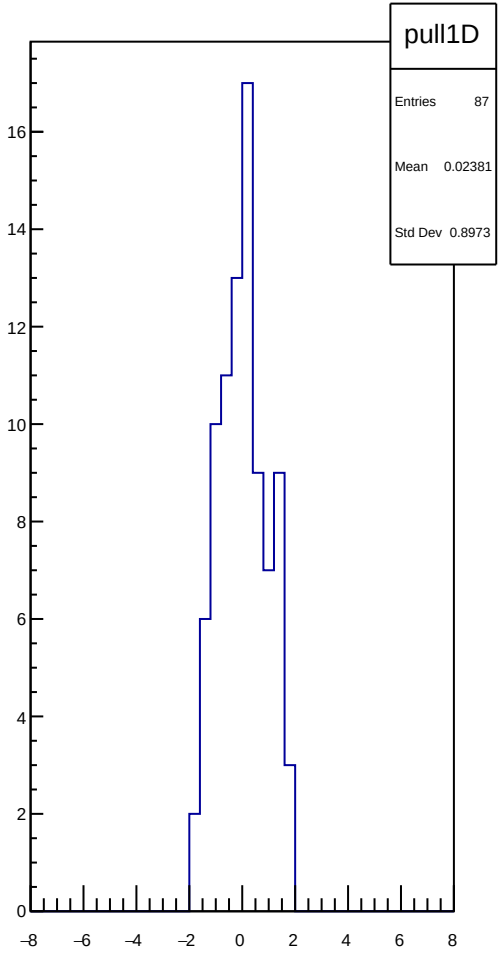

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 80.26 / 86
p0 −0.004141 ± 0.01072
pull
Entries 87
Mean 122.2
Std Dev 0

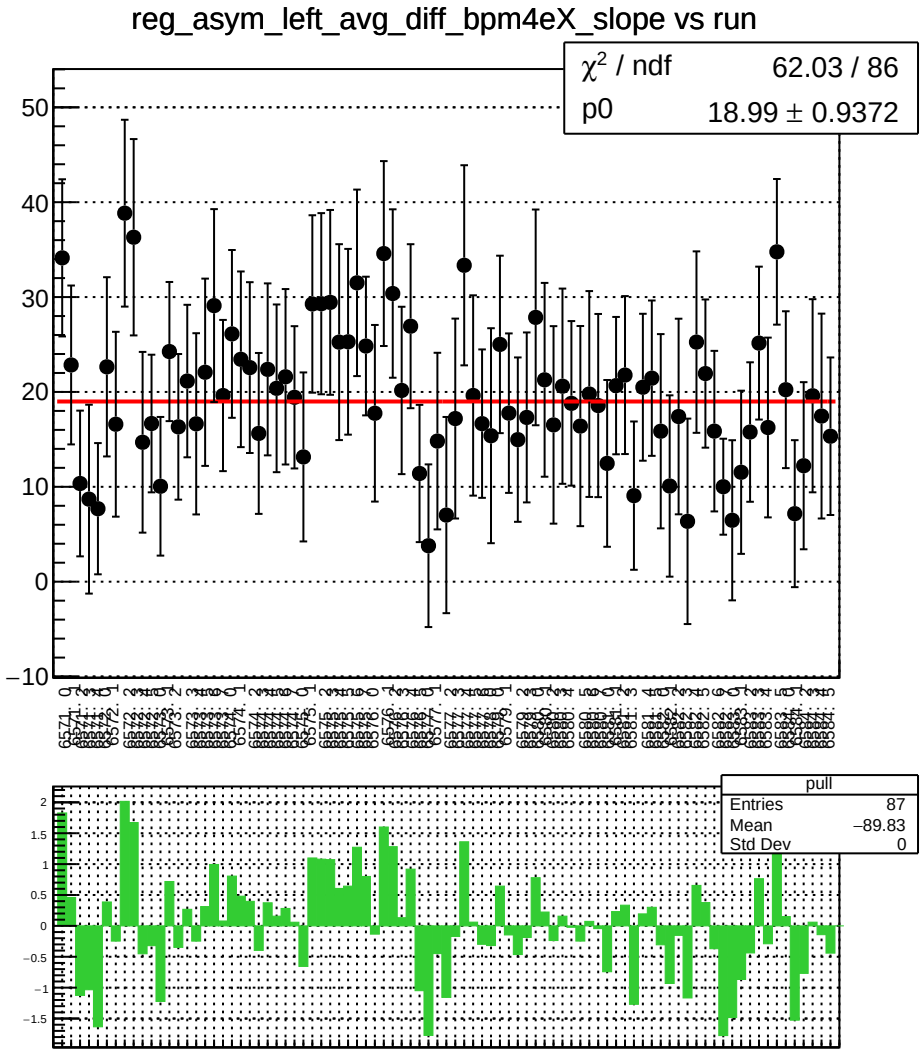

pull1D
Entries 87
Mean −0.02276
Std Dev 0.9602

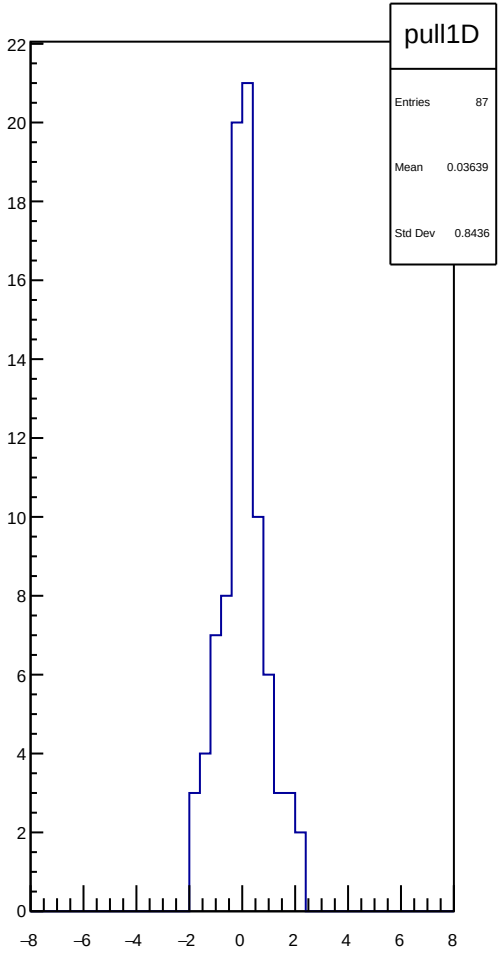

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 60.99 / 86
p0 −44.7 ± 0.9114
pull
Entries 87
Mean −121.4
Std Dev 0

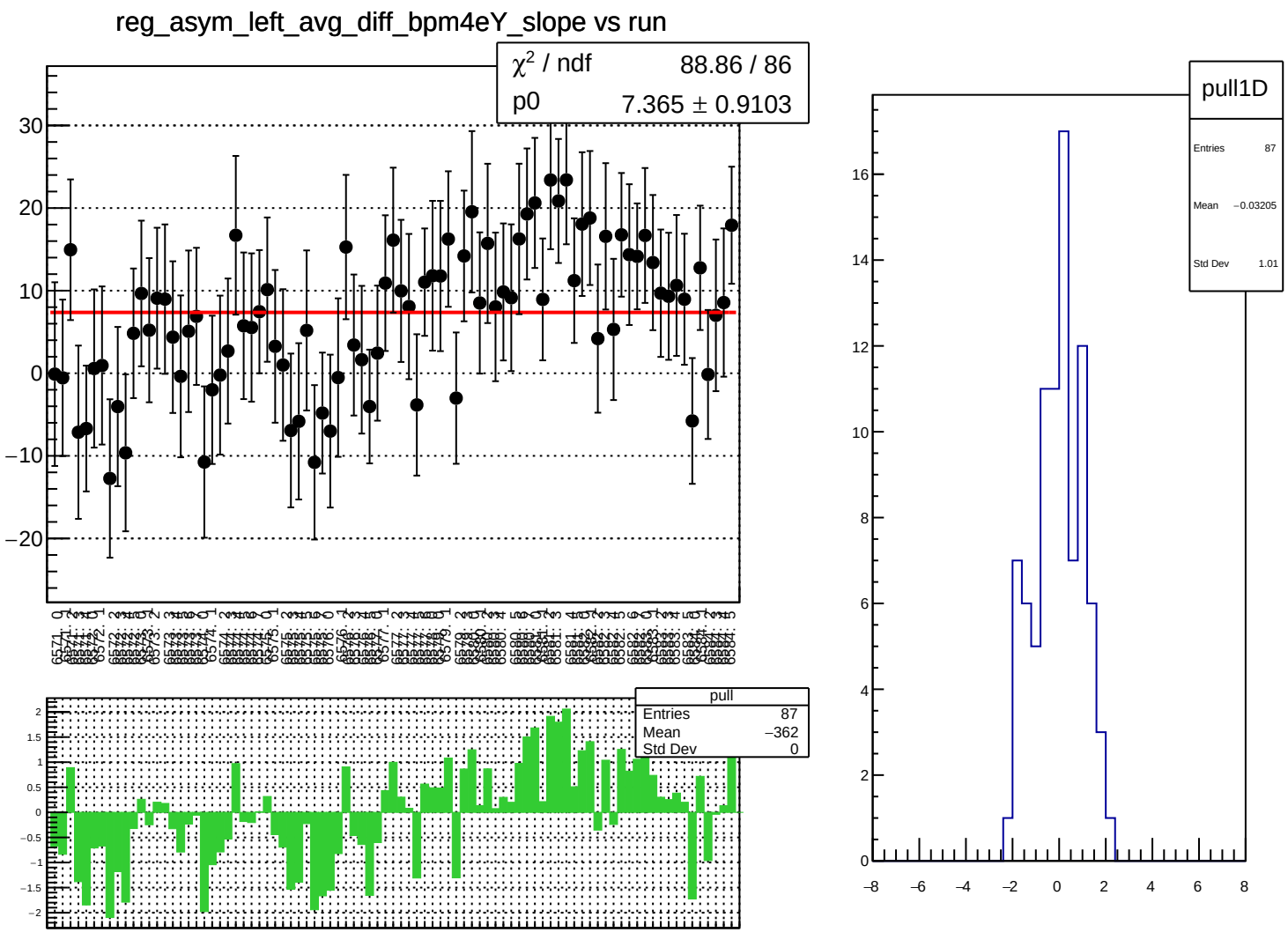

pull1D
Entries 87
Mean −0.03384
Std Dev 0.8366

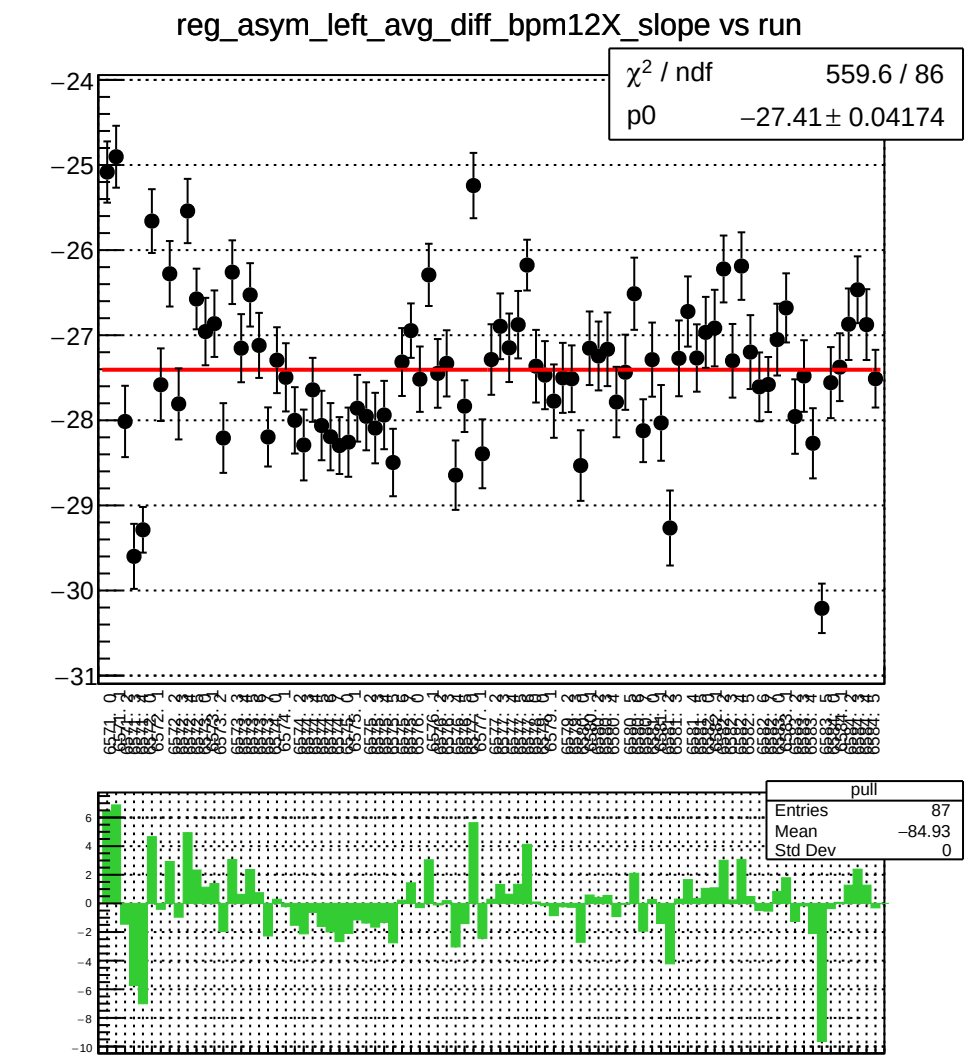

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 70.09 / 86
p0 6.991 ± 0.7584
pull
Entries 87
Mean −341
Std Dev 0

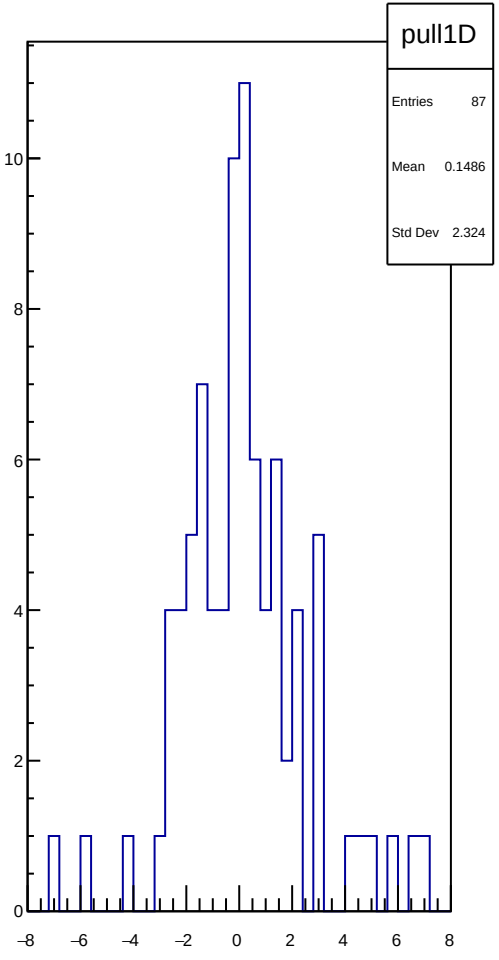

pull1D
Entries 87
Mean 0.02381
Std Dev 0.8973

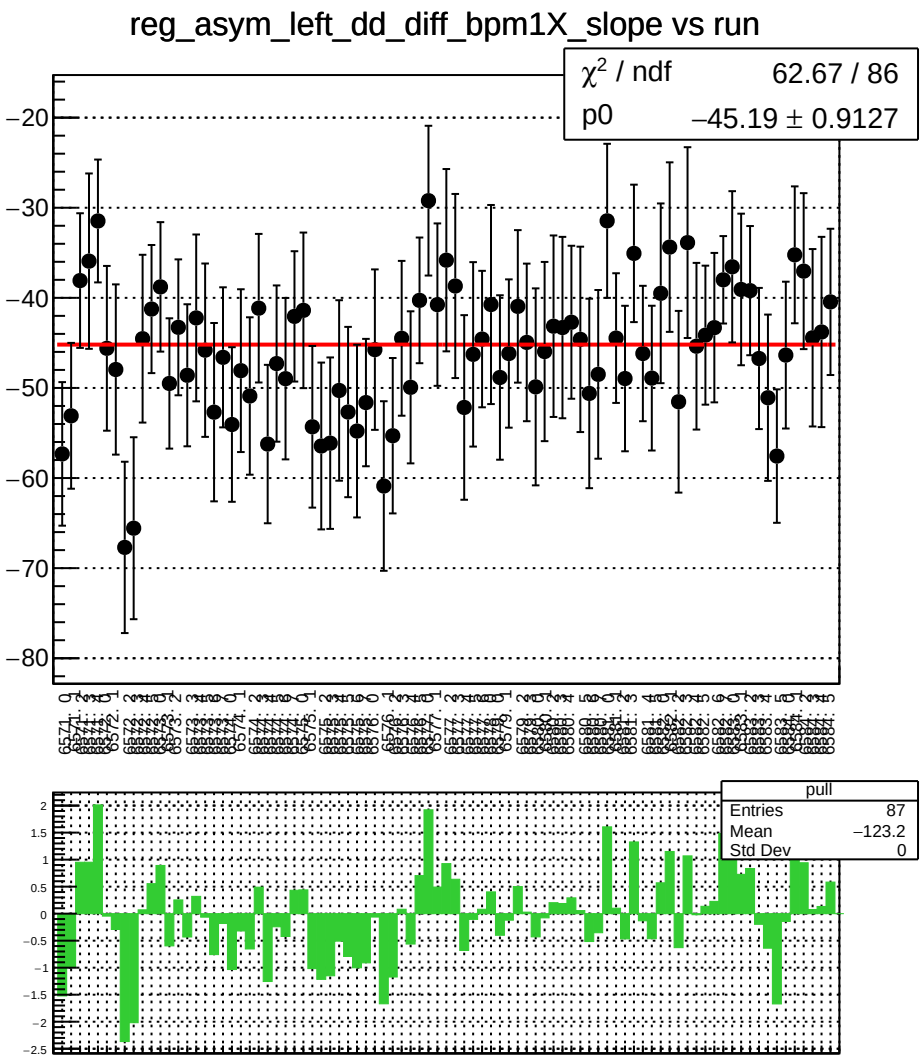

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.03 / 86
p0 18.99 ± 0.9372
pull
Entries 87
Mean −89.83
Std Dev 0

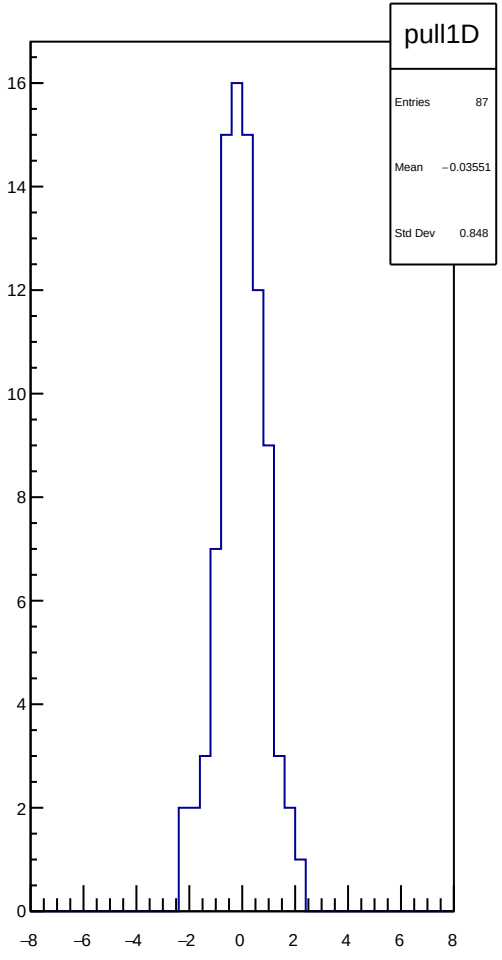

pull1D
Entries 87
Mean 0.03639
Std Dev 0.8436

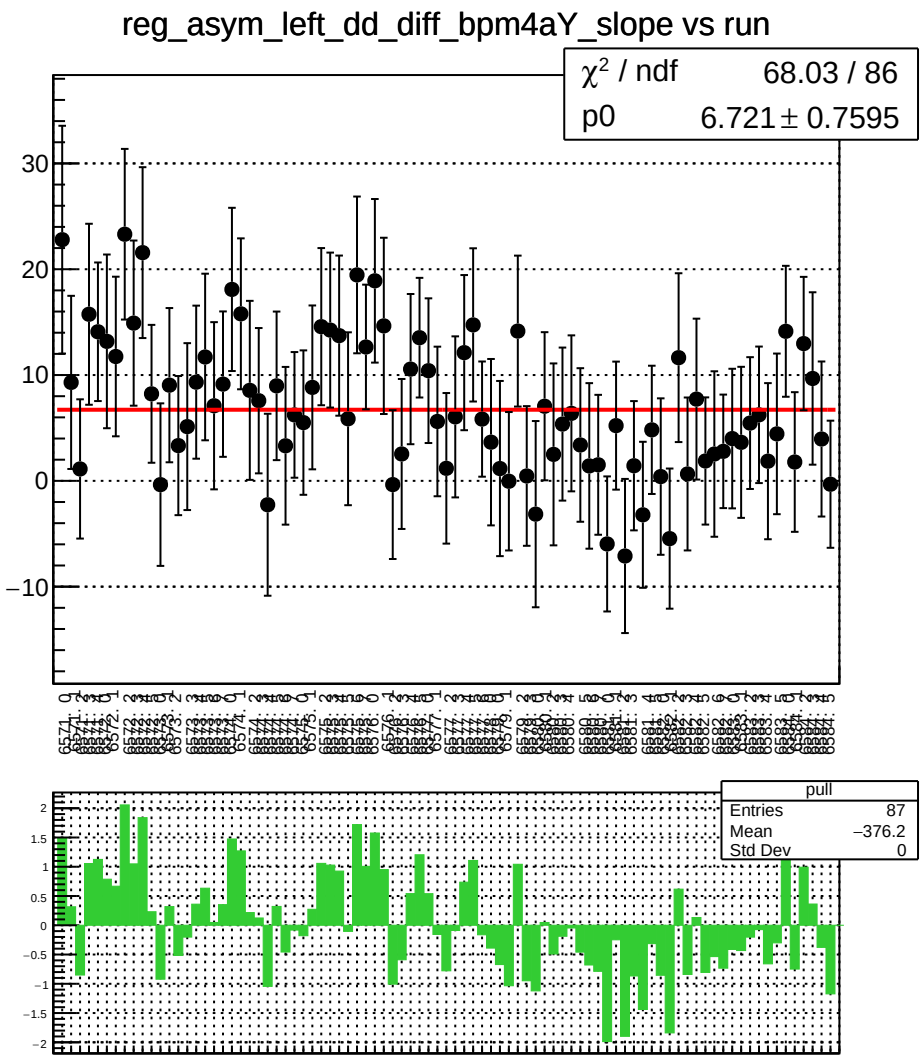

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.86 / 86
p0 7.365 ± 0.9103
pull
Entries 87
Mean −362
Std Dev 0
pull1D
Entries 87
Mean −0.03205
Std Dev 1.01

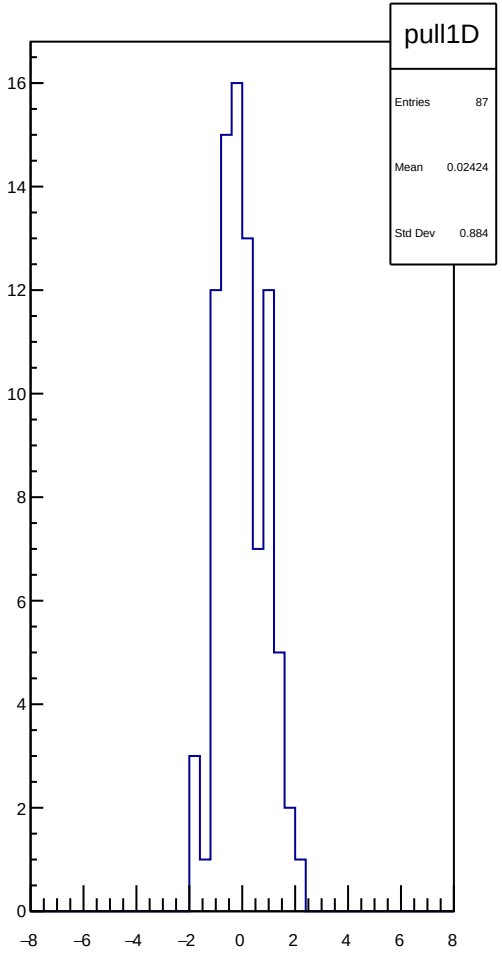

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 559.6 / 86
p0 −27.41 ± 0.04174
pull
Entries 87
Mean −84.93
Std Dev 0

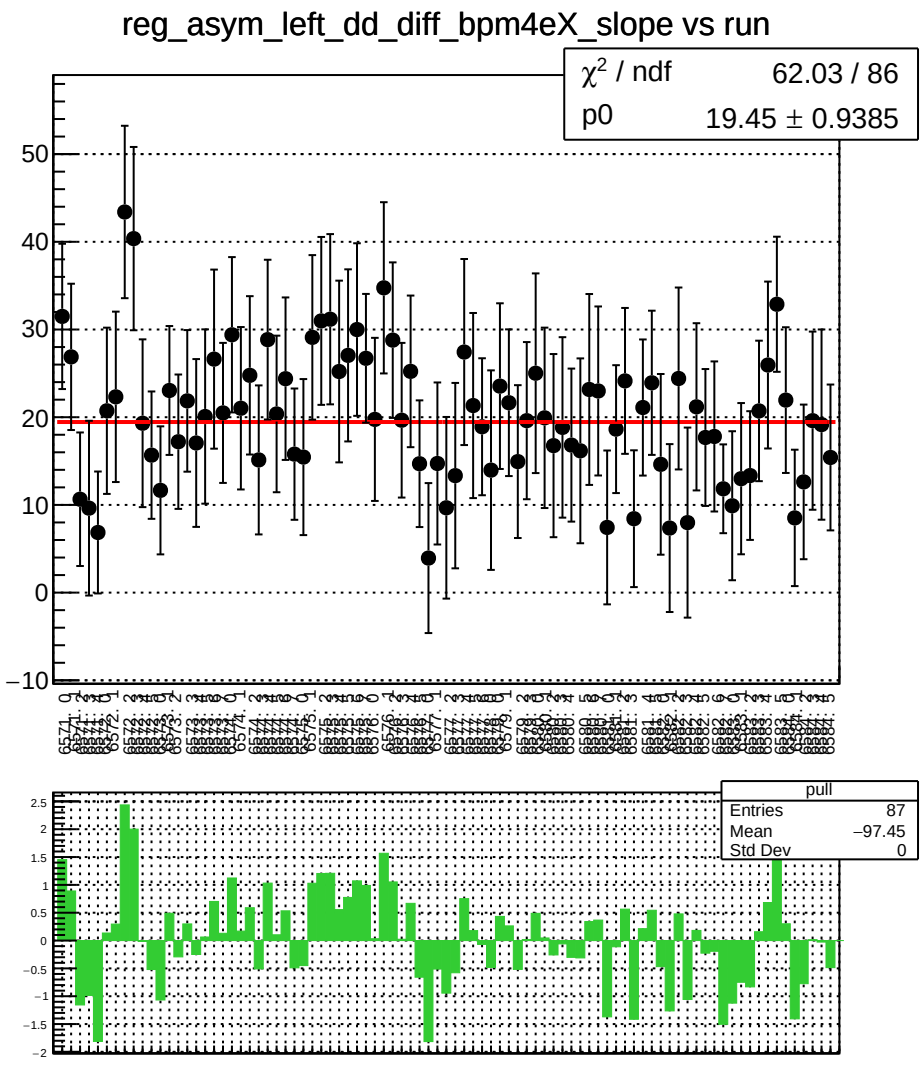

pull1D
Entries 87
Mean 0.1486
Std Dev 2.324

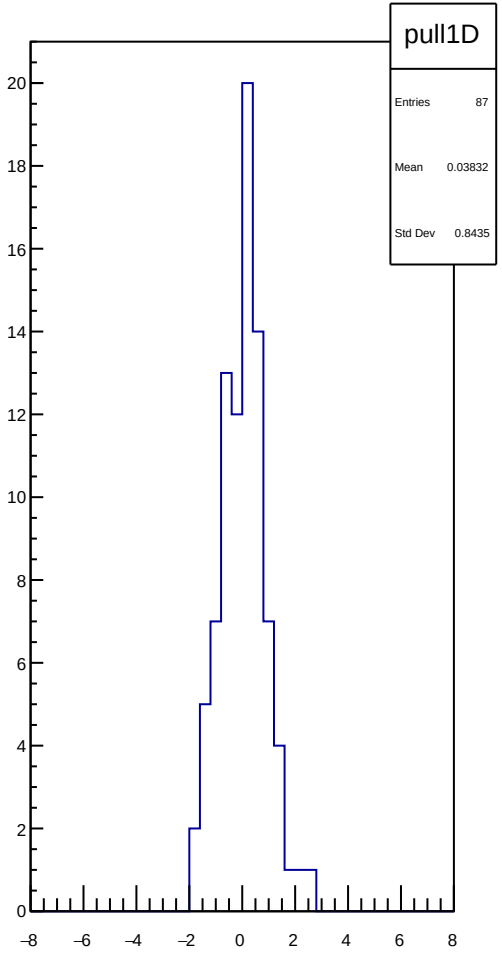

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 62.67 / 86
p0 −45.19 ± 0.9127
pull
Entries 87
Mean −123.2
Std Dev 0

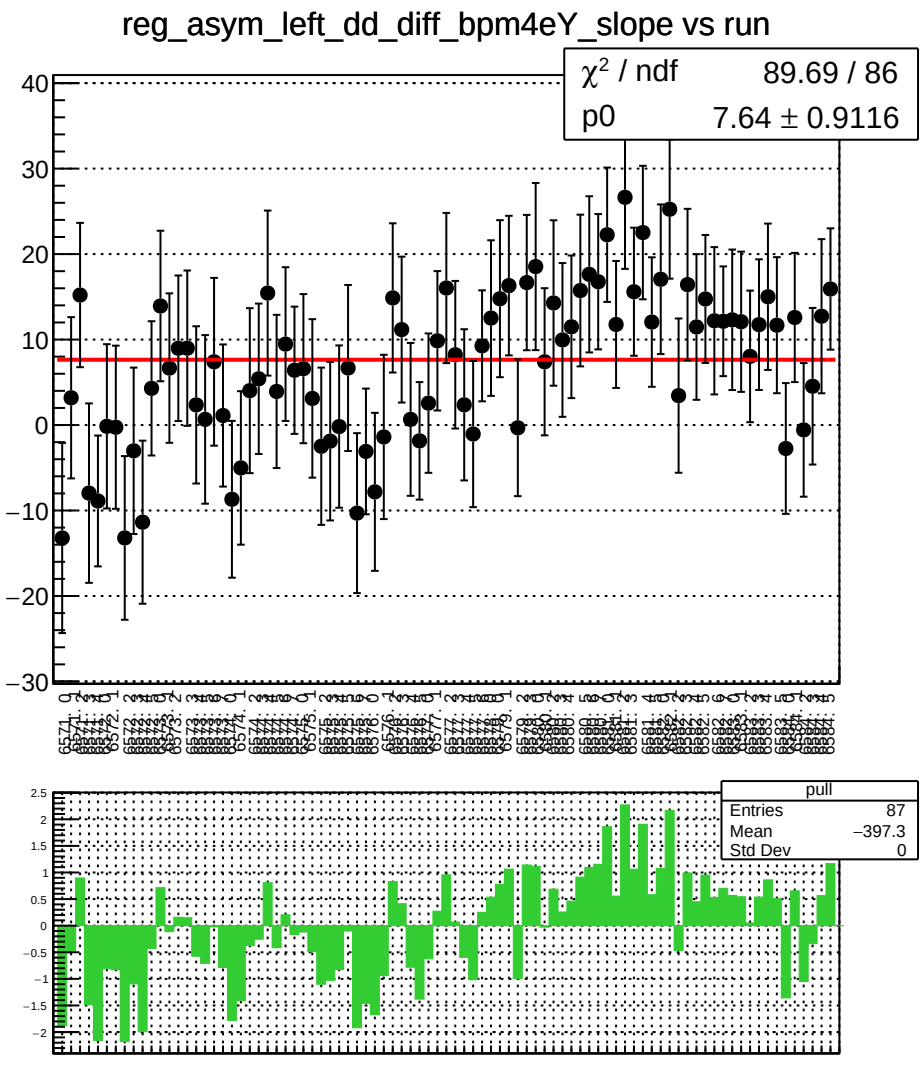

pull1D
Entries 87
Mean −0.03551
Std Dev 0.848

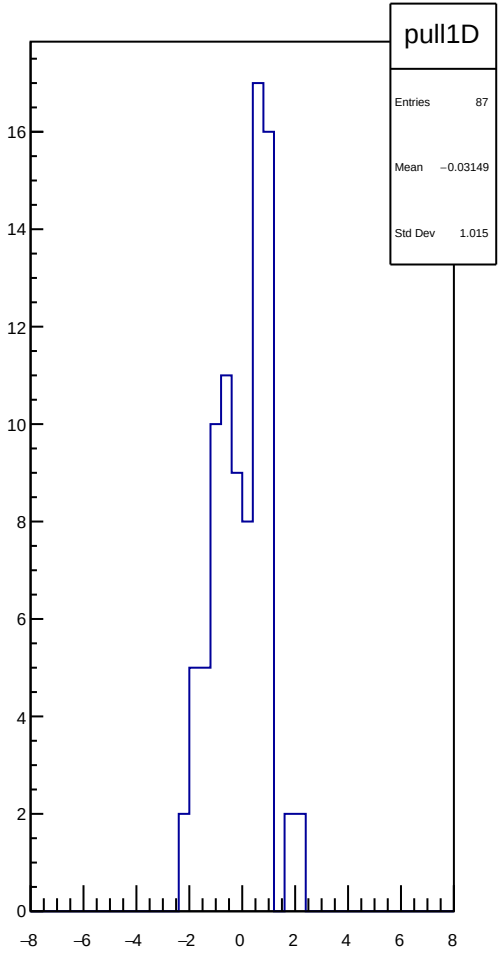

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.03 / 86
p0 6.721 ± 0.7595
pull
Entries 87
Mean −376.2
Std Dev 0

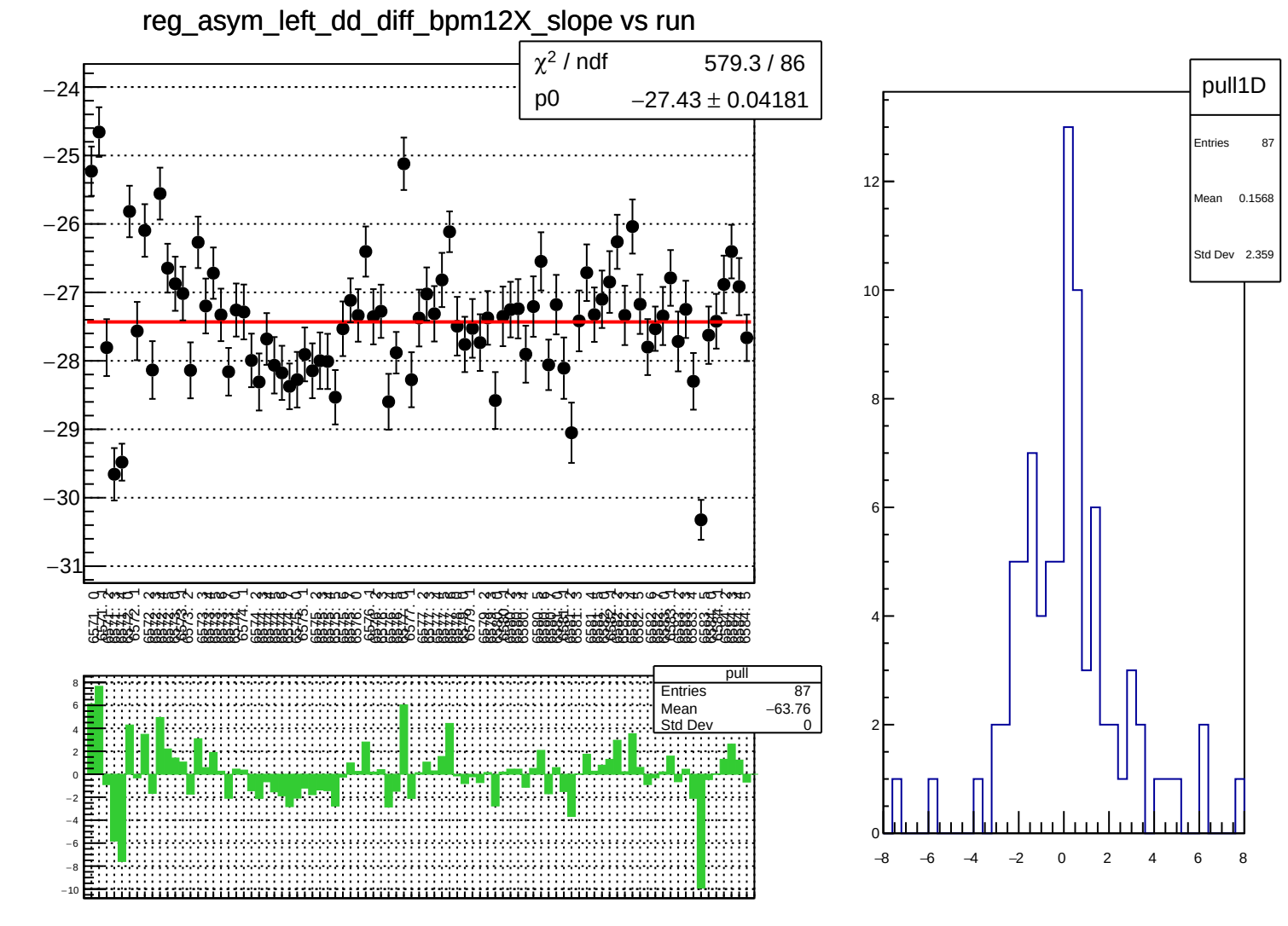

pull1D
Entries 87
Mean 0.02424
Std Dev 0.884

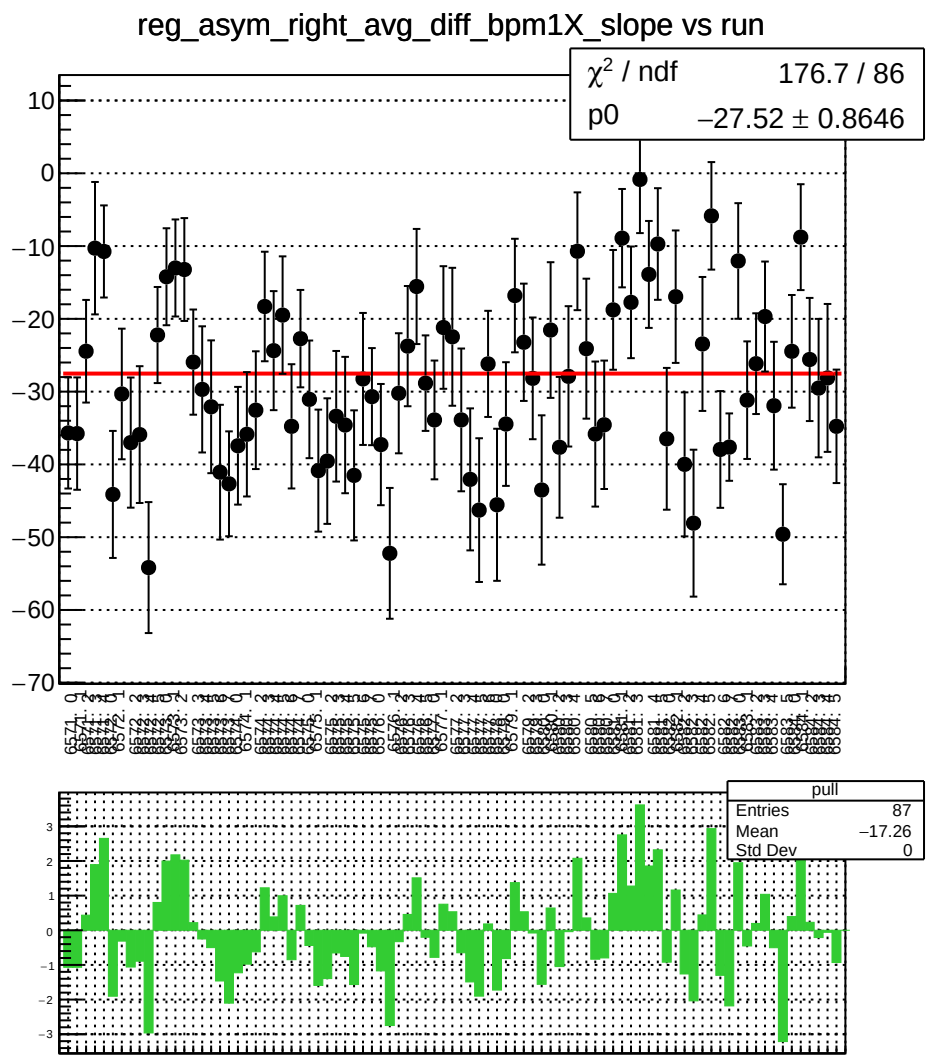

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.03 / 86
p0 19.45 ± 0.9385
pull
Entries 87
Mean −97.45
Std Dev 0

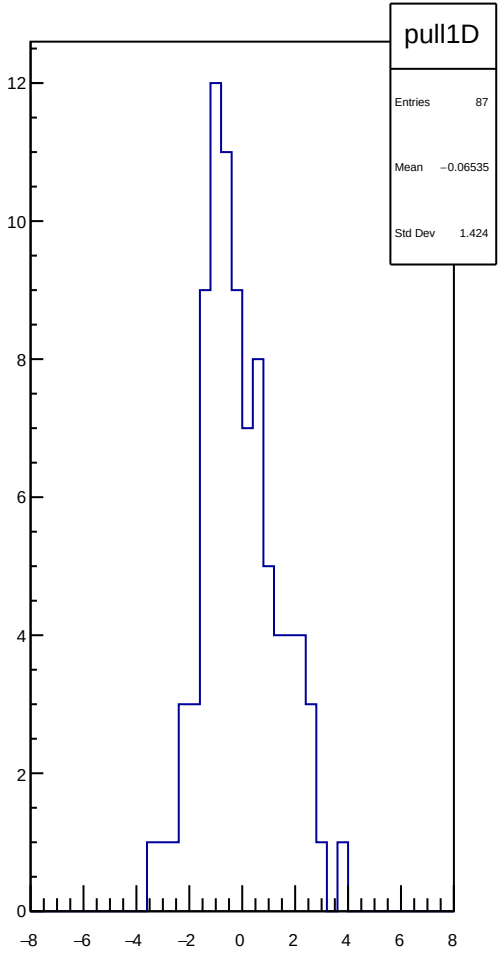

pull1D
Entries 87
Mean 0.03832
Std Dev 0.8435

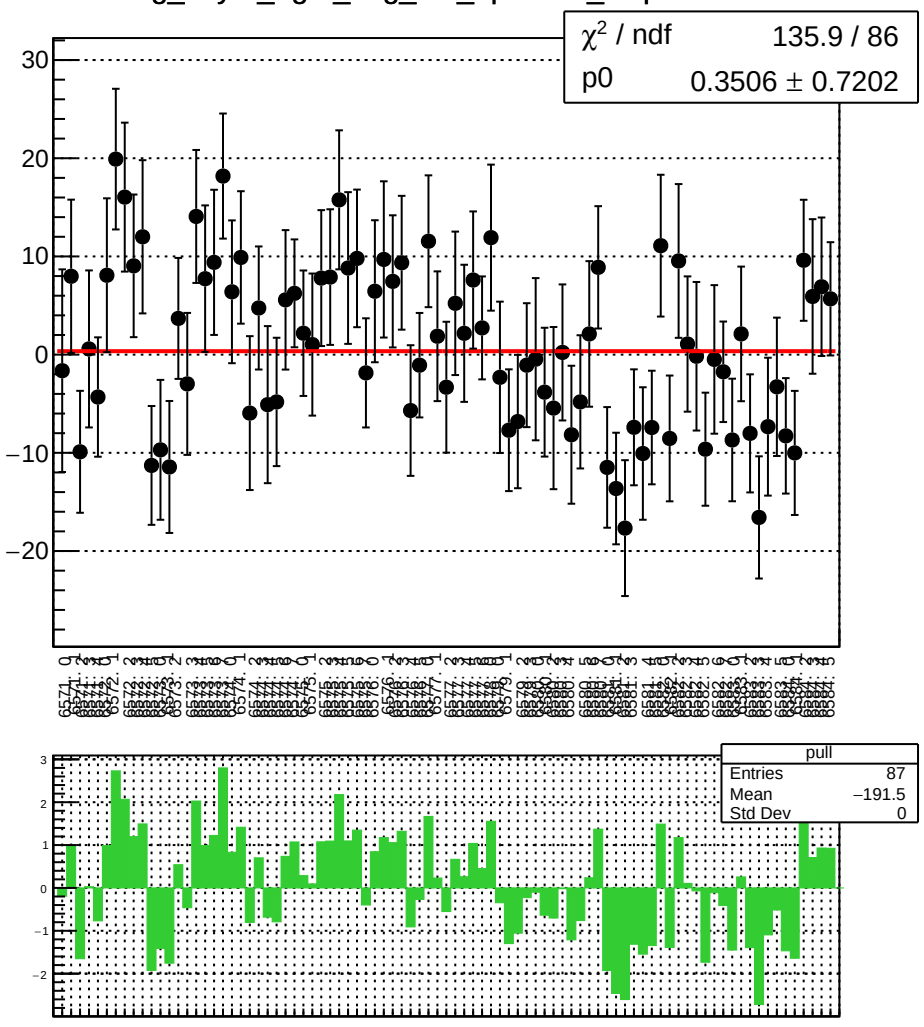

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.69 / 86
p0 7.64 ± 0.9116
pull
Entries 87
Mean −397.3
Std Dev 0

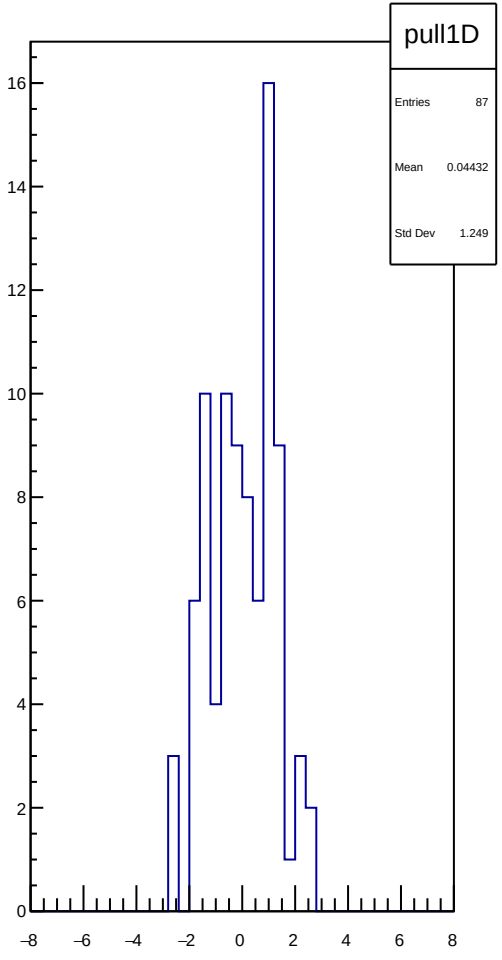

pull1D
Entries 87
Mean −0.03149
Std Dev 1.015

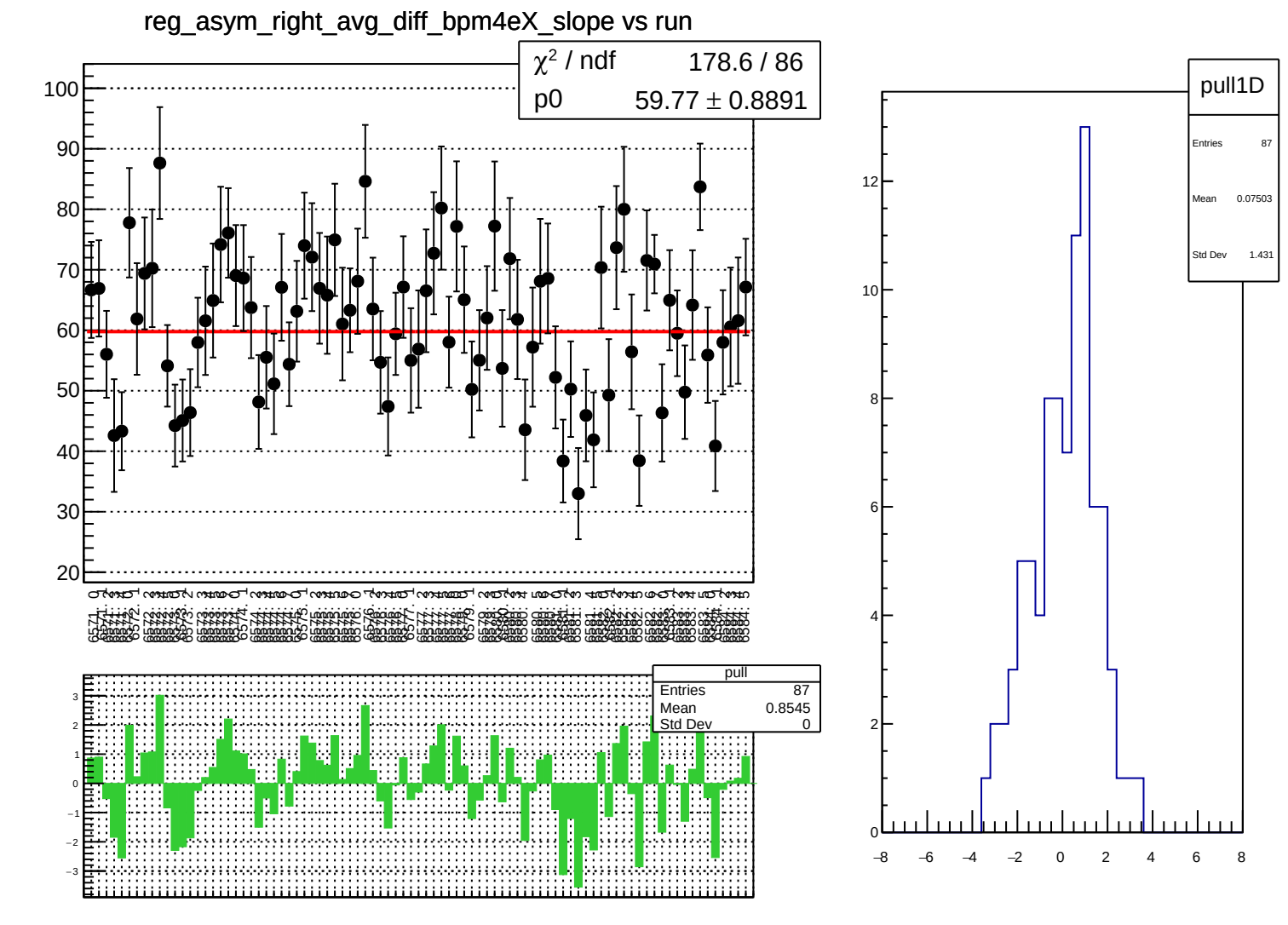

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 579.3 / 86
p0 −27.43 ± 0.04181
pull
Entries 87
Mean −63.76
Std Dev 0
pull1D
Entries 87
Mean 0.1568
Std Dev 2.359

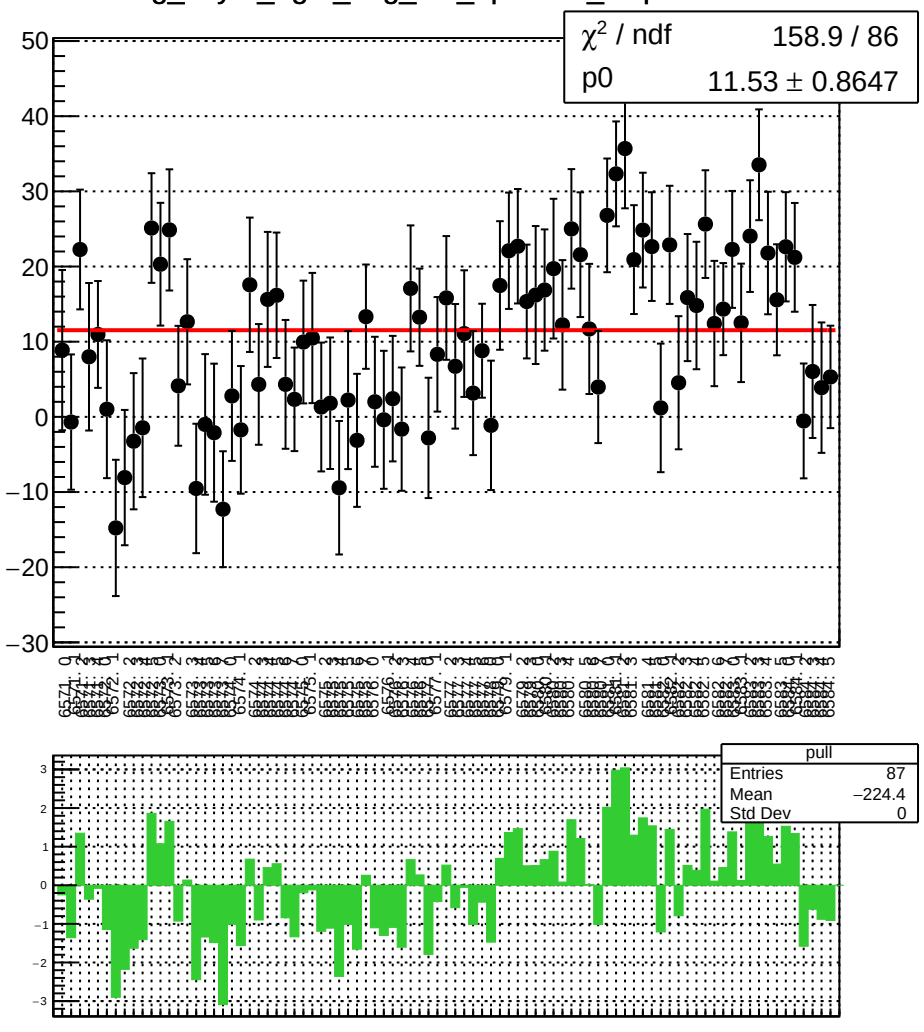

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 176.7 / 86
p0 −27.52 ± 0.8646
pull
Entries 87
Mean −17.26
Std Dev 0

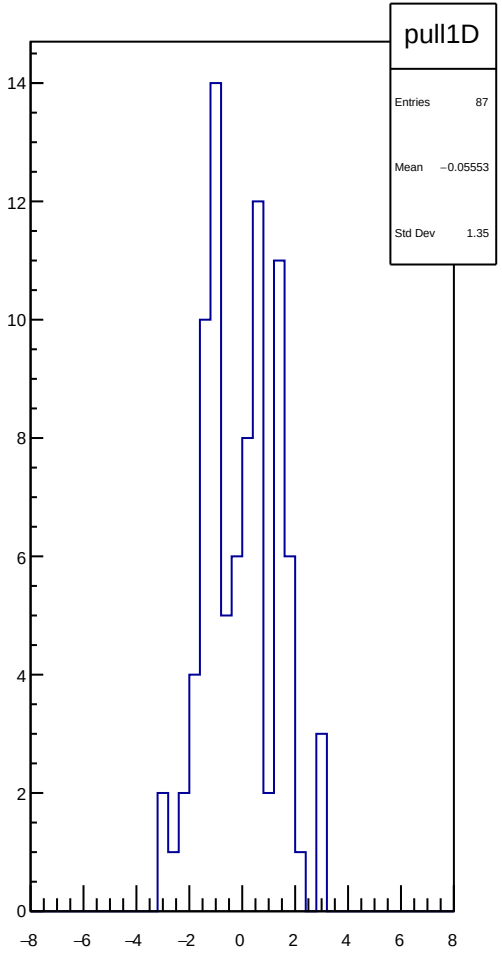

pull1D
Entries 87
Mean −0.06535
Std Dev 1.424

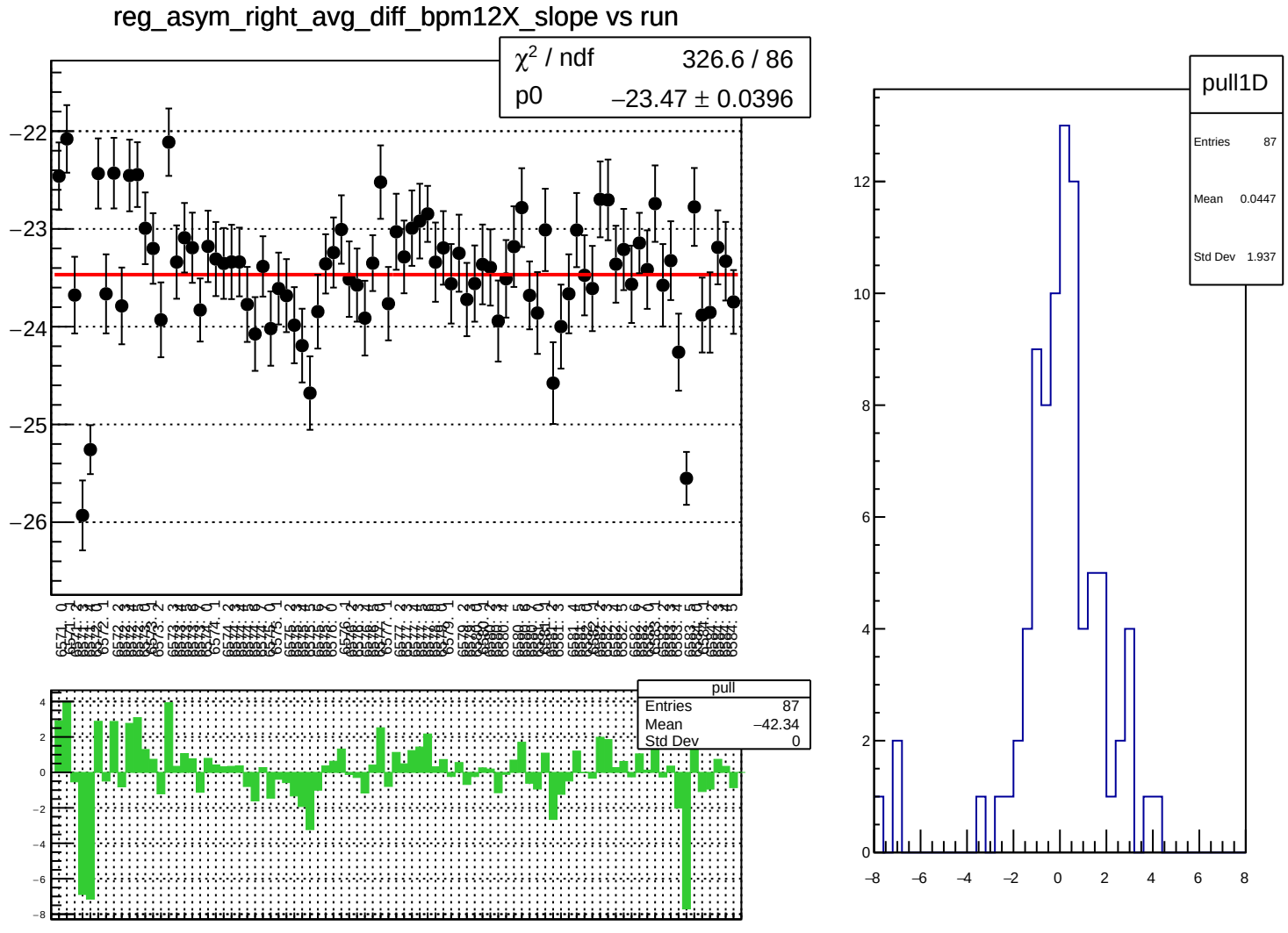

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 135.9 / 86
p0 0.3506 ± 0.7202
pull
Entries 87
Mean −191.5
Std Dev 0

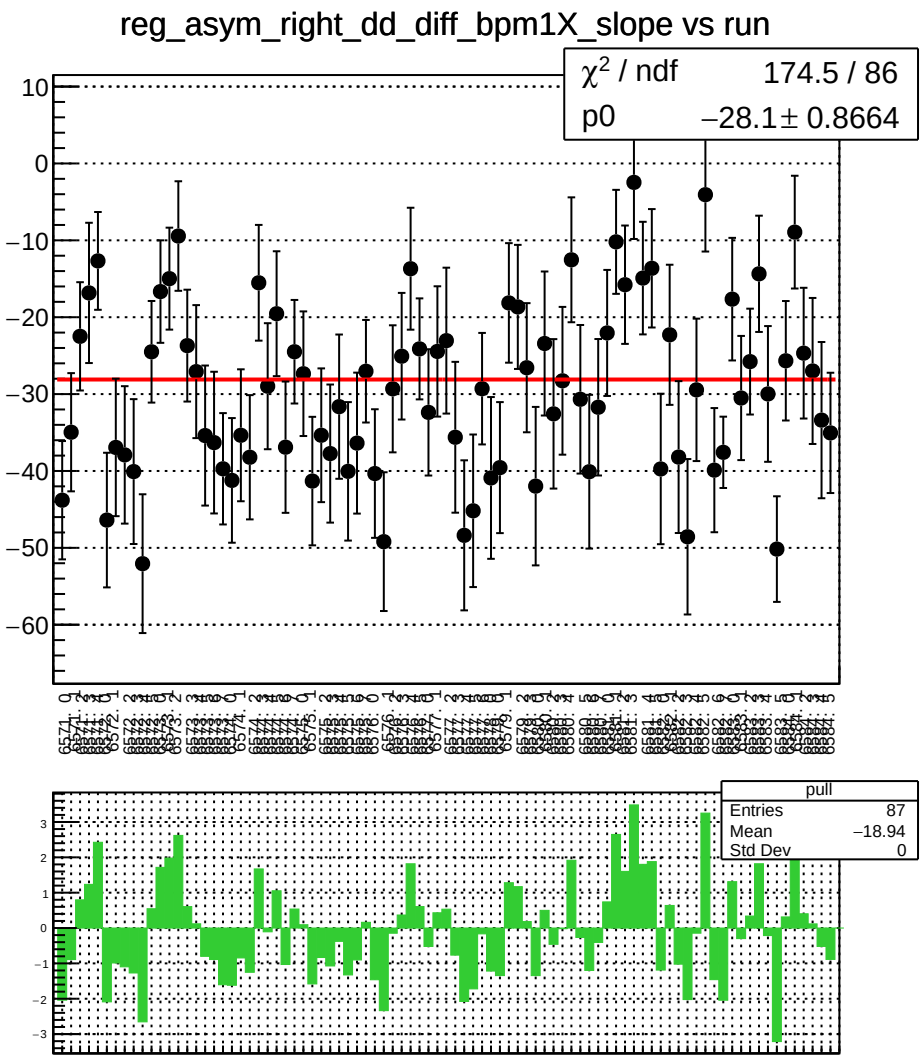

pull1D
Entries 87
Mean 0.04432
Std Dev 1.249

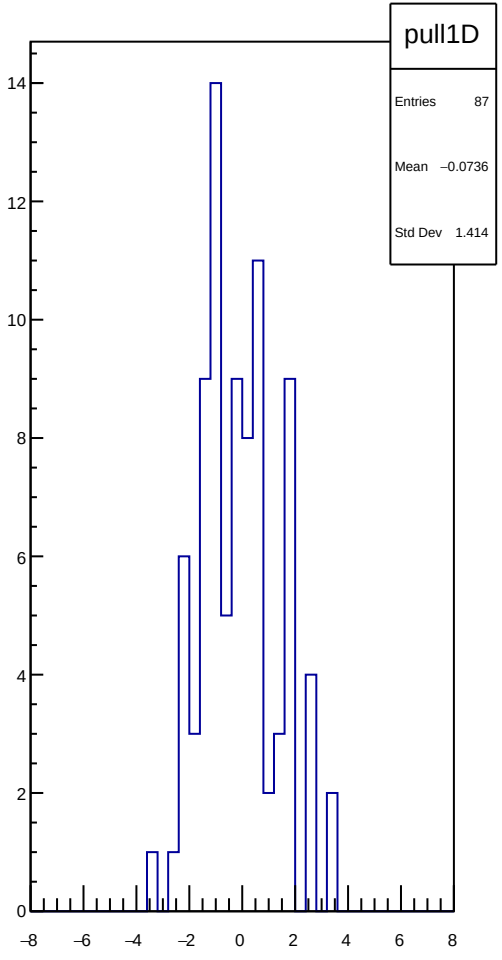

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 178.6 / 86
p0 59.77 ± 0.8891
pull
Entries 87
Mean 0.8545
Std Dev 0
pull1D
Entries 87
Mean 0.07503
Std Dev 1.431

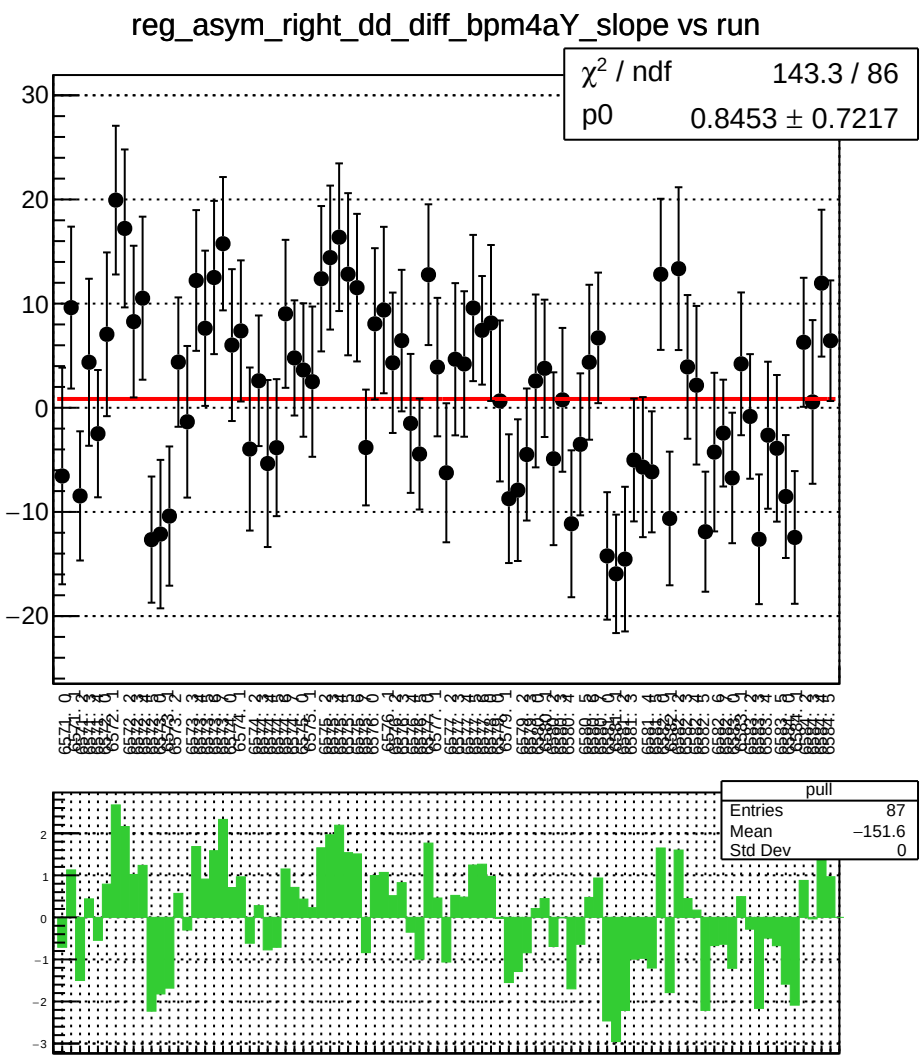

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 158.9 / 86
p0 11.53 ± 0.8647
pull
Entries 87
Mean −224.4
Std Dev 0

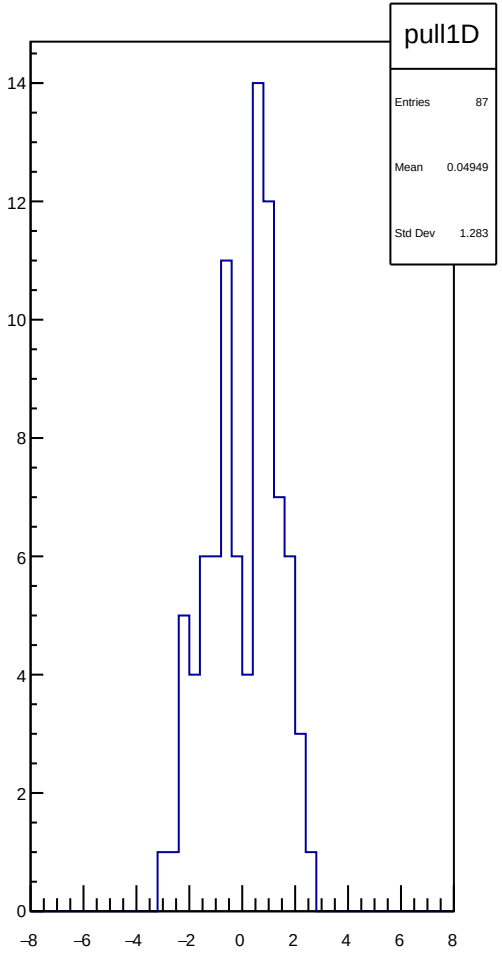

pull1D
Entries 87
Mean −0.05553
Std Dev 1.35

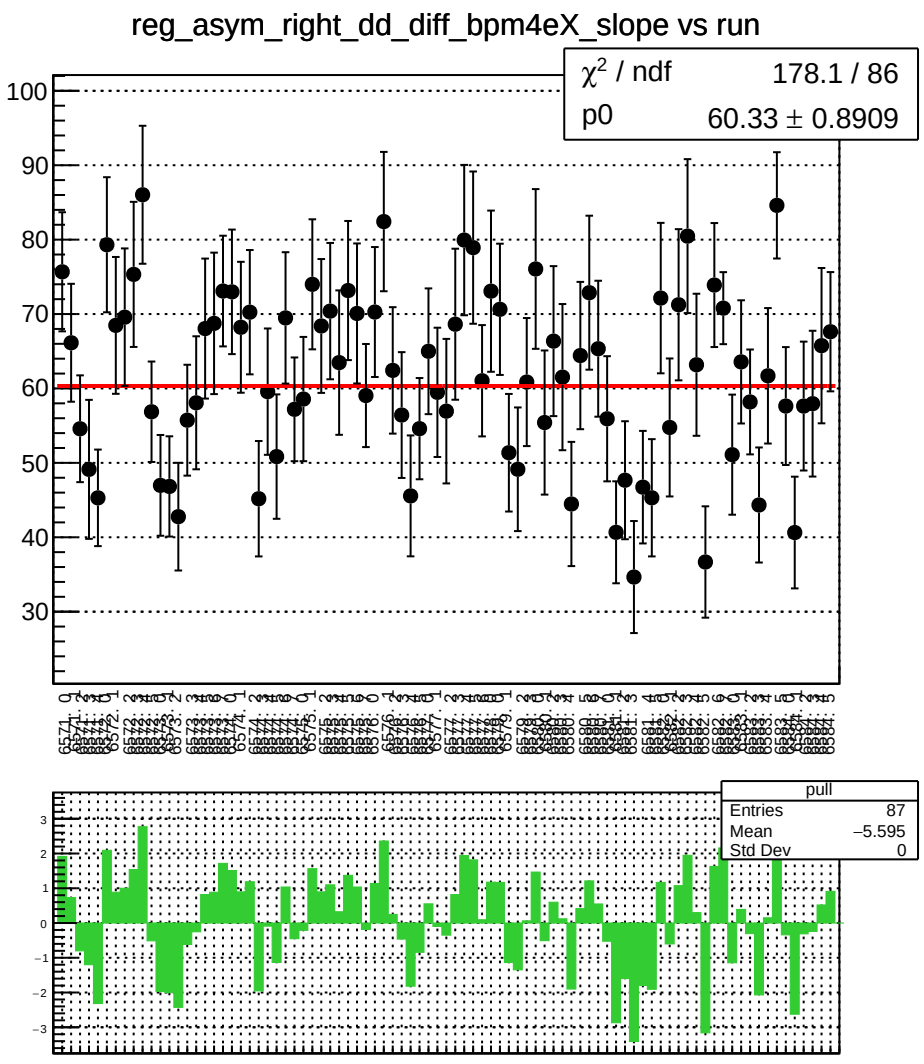

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 326.6 / 86
p0 −23.47 ± 0.0396
pull
Entries 87
Mean −42.34
Std Dev 0
pull1D
Entries 87
Mean 0.0447
Std Dev 1.937

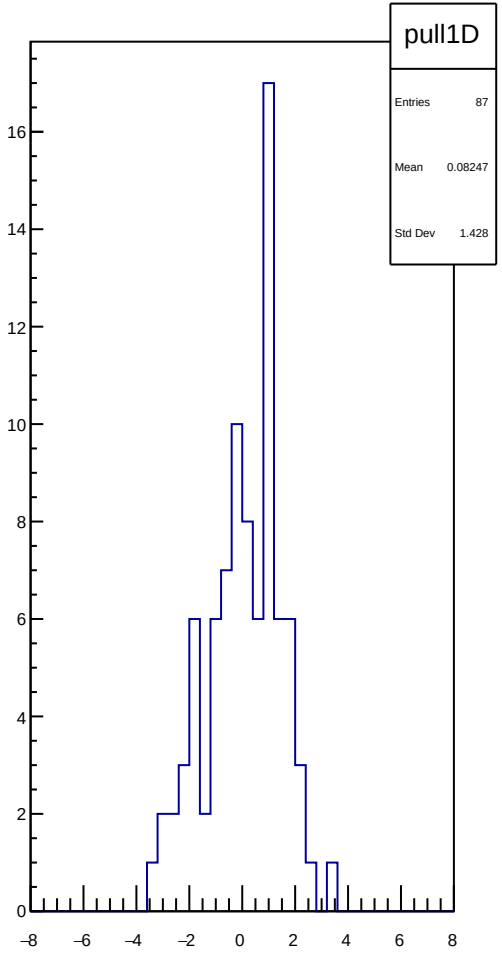

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 174.5 / 86
p0 −28.1 ± 0.8664
pull
Entries 87
Mean −18.94
Std Dev 0

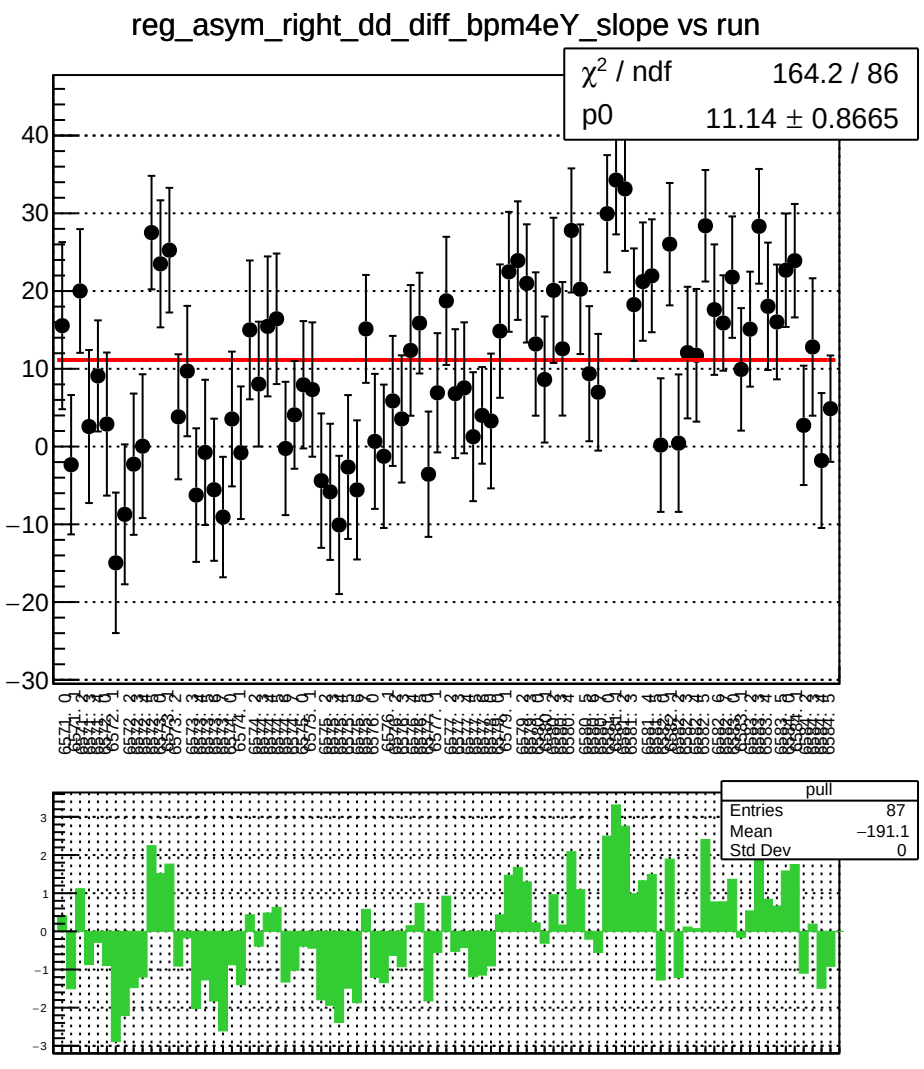

pull1D
Entries 87
Mean −0.0736
Std Dev 1.414

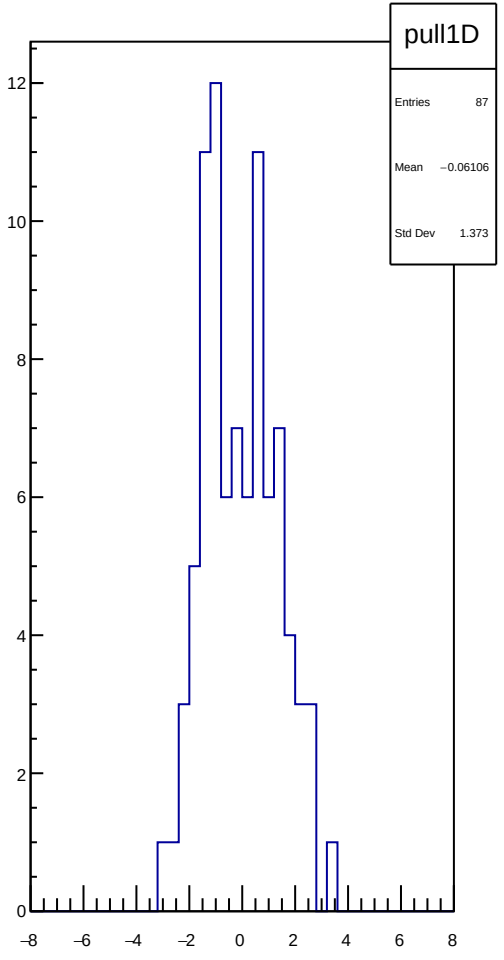

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 143.3 / 86
p0 0.8453 ± 0.7217
pull
Entries 87
Mean −151.6
Std Dev 0

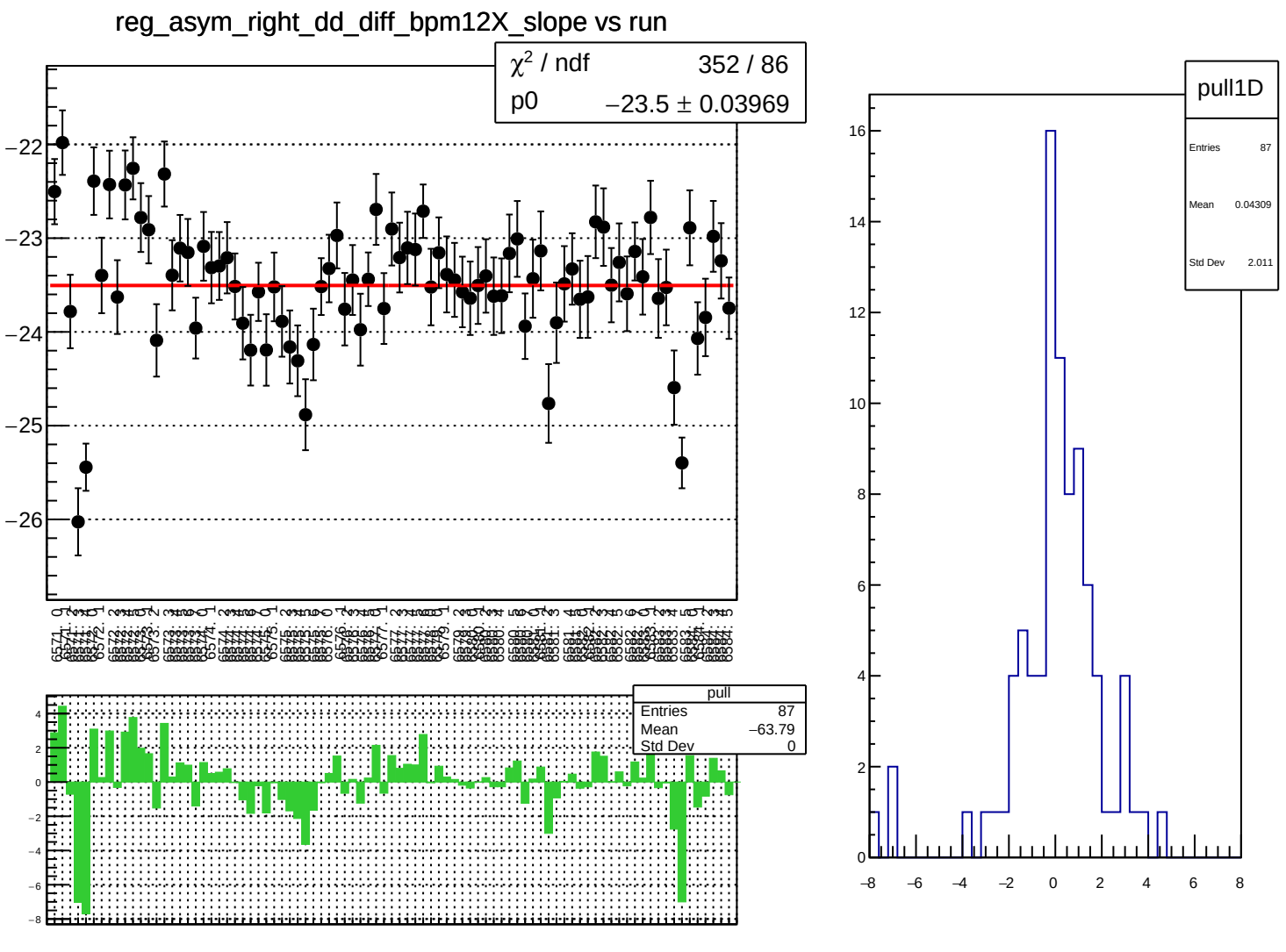

pull1D
Entries 87
Mean 0.04949
Std Dev 1.283

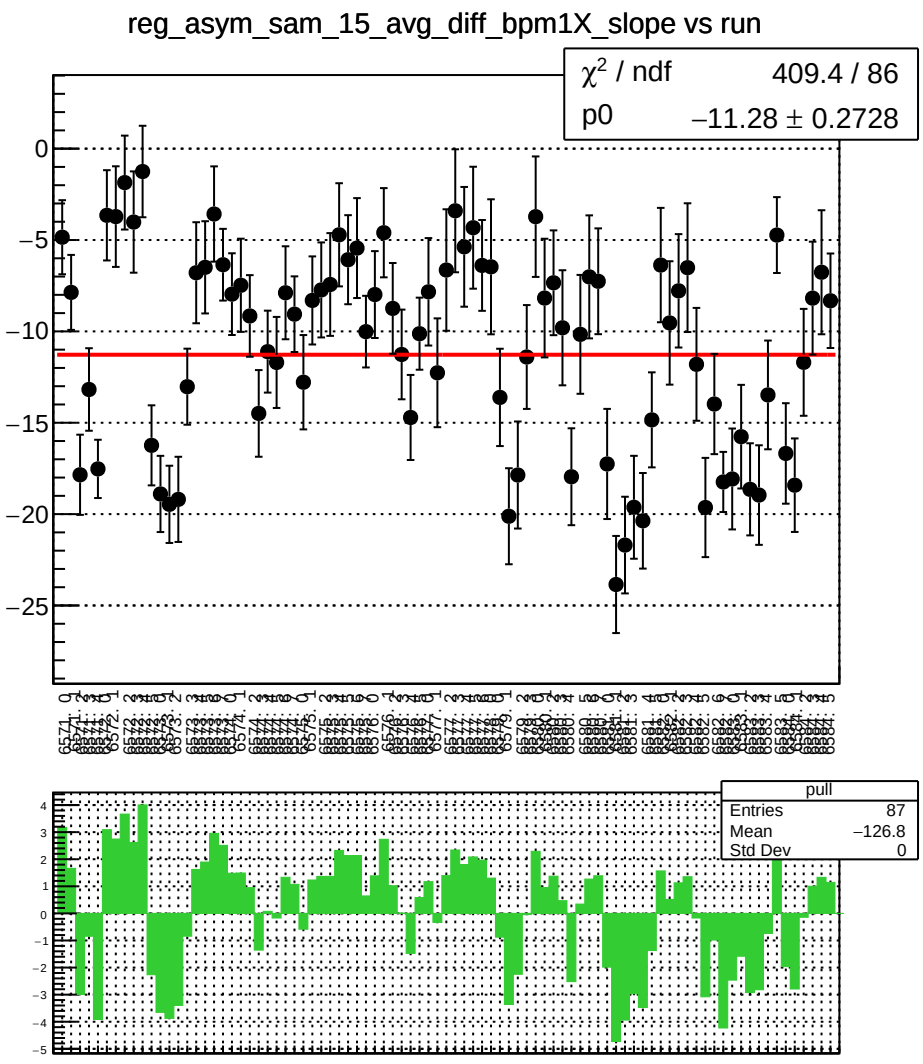

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 178.1 / 86
p0 60.33 ± 0.8909
pull
Entries 87
Mean −5.595
Std Dev 0

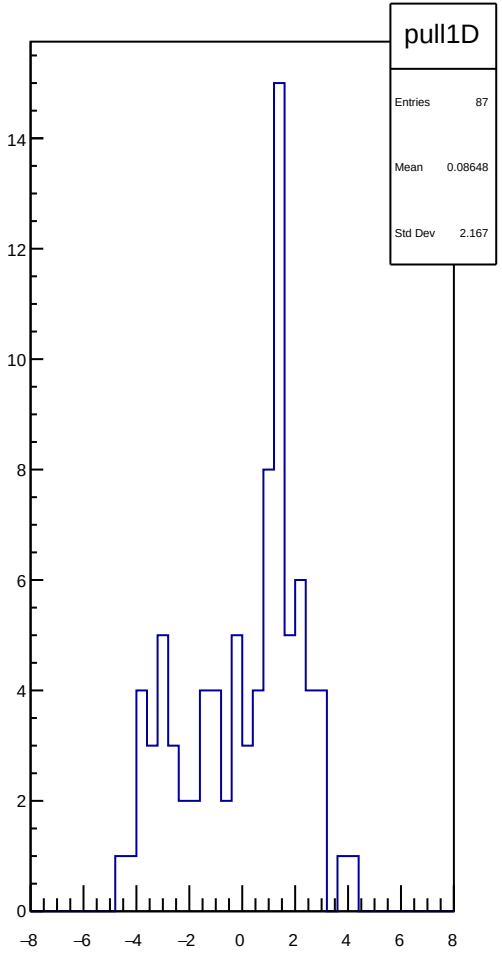

pull1D
Entries 87
Mean 0.08247
Std Dev 1.428

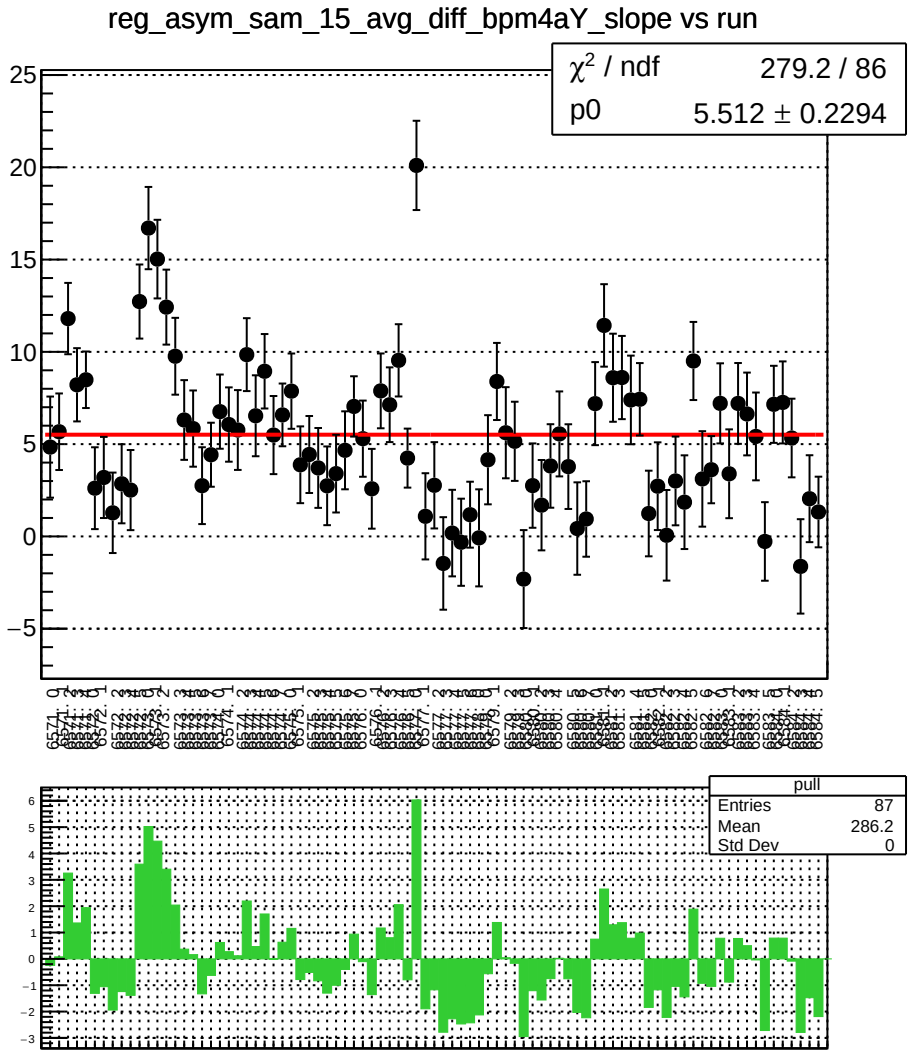

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 164.2 / 86
p0 11.14 ± 0.8665
pull
Entries 87
Mean −191.1
Std Dev 0

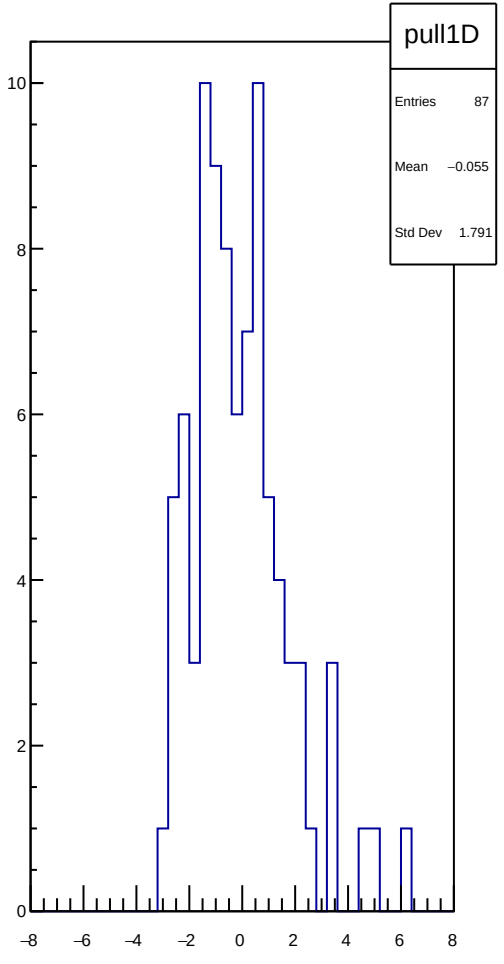

pull1D
Entries 87
Mean −0.06106
Std Dev 1.373

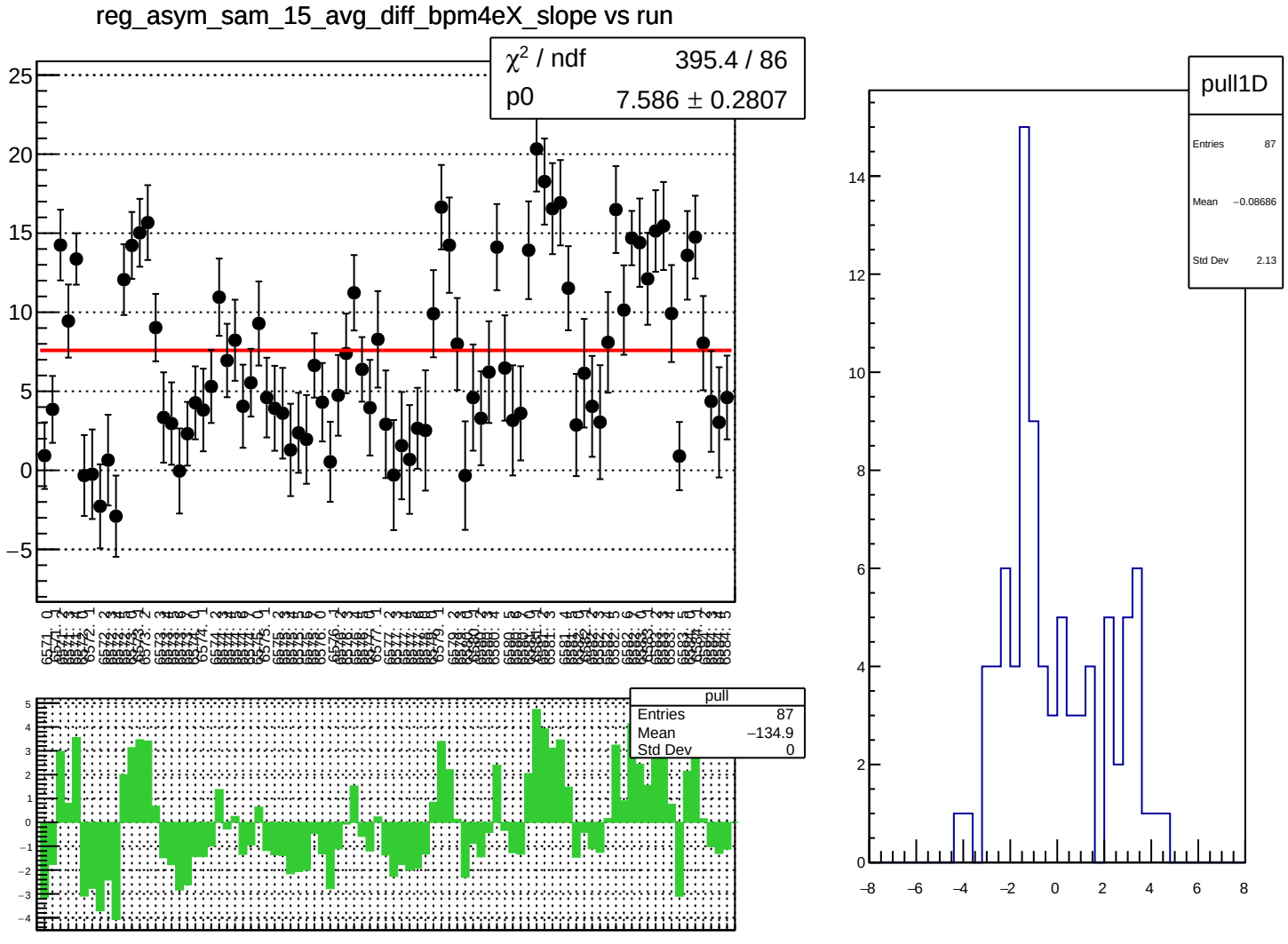

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 352 / 86
p0 −23.5 ± 0.03969
pull
Entries 87
Mean −63.79
Std Dev 0
pull1D
Entries 87
Mean 0.04309
Std Dev 2.011

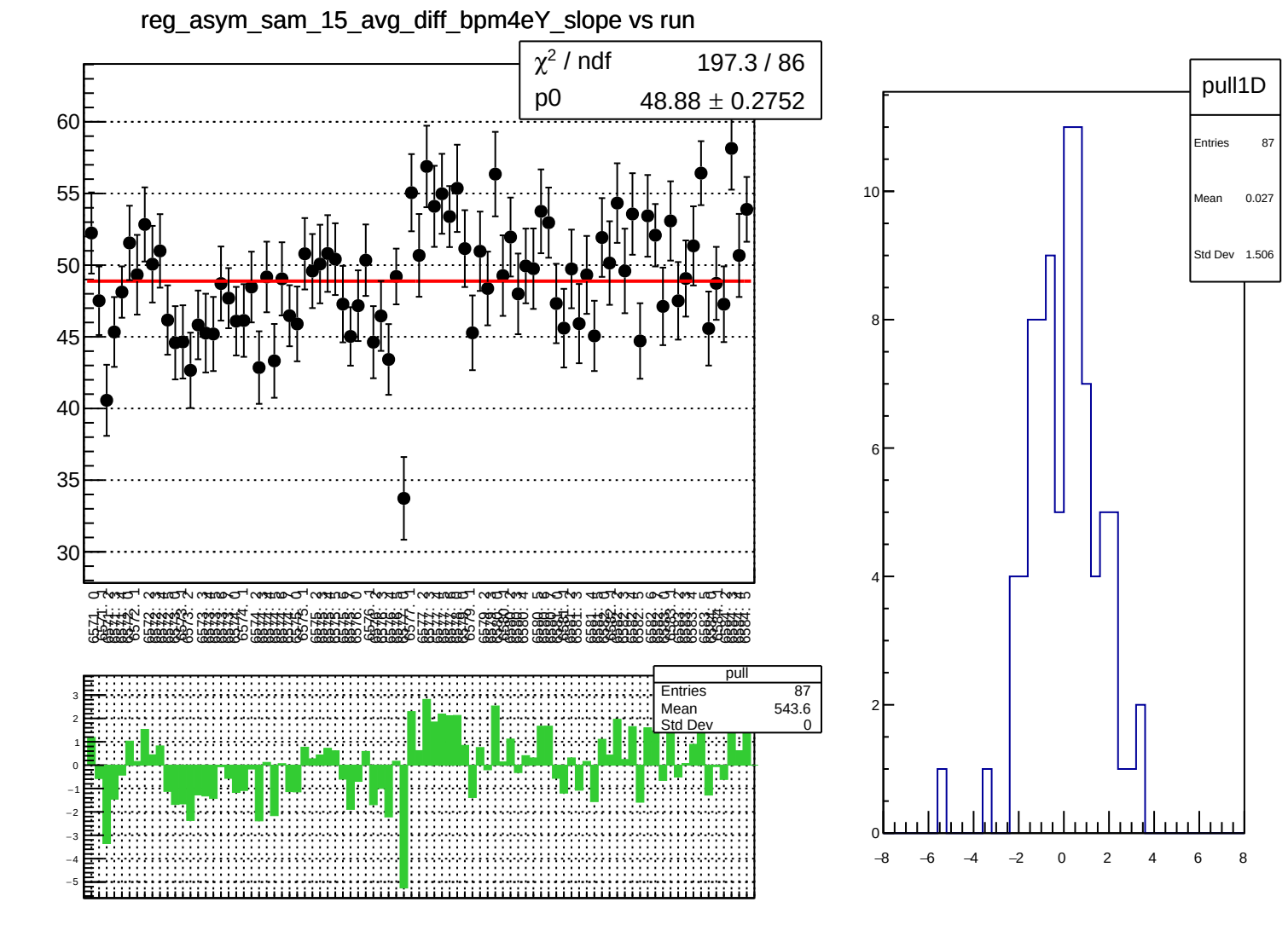

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 409.4 / 86
p0 −11.28 ± 0.2728
pull
Entries 87
Mean −126.8
Std Dev 0

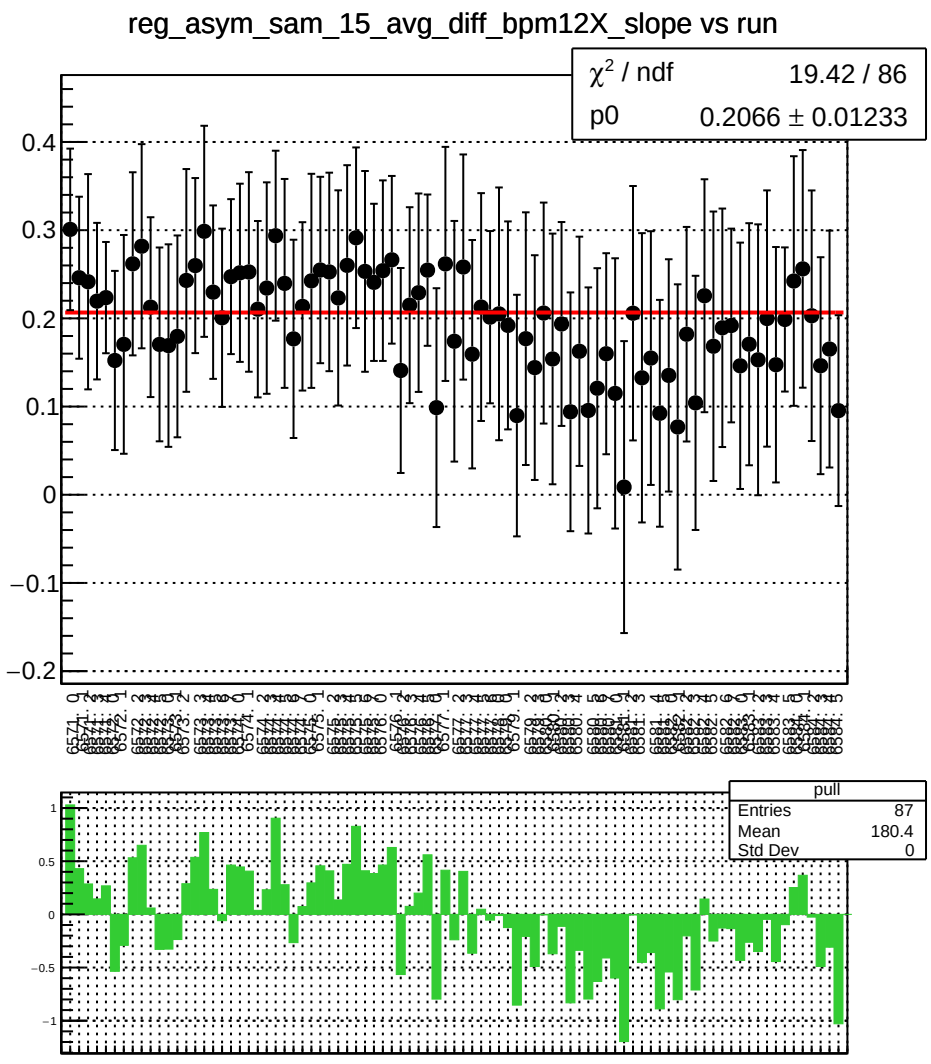

pull1D
Entries 87
Mean 0.08648
Std Dev 2.167

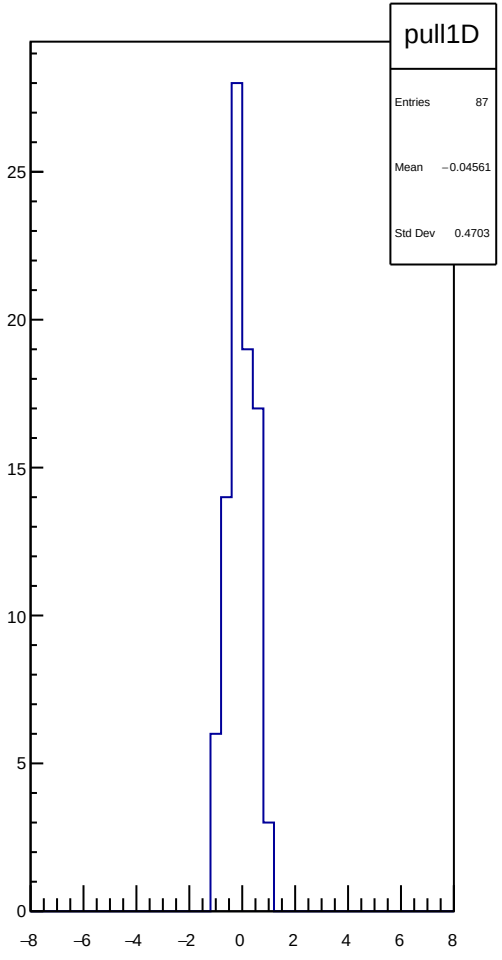

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 279.2 / 86
p0 5.512 ± 0.2294
pull
Entries 87
Mean 286.2
Std Dev 0

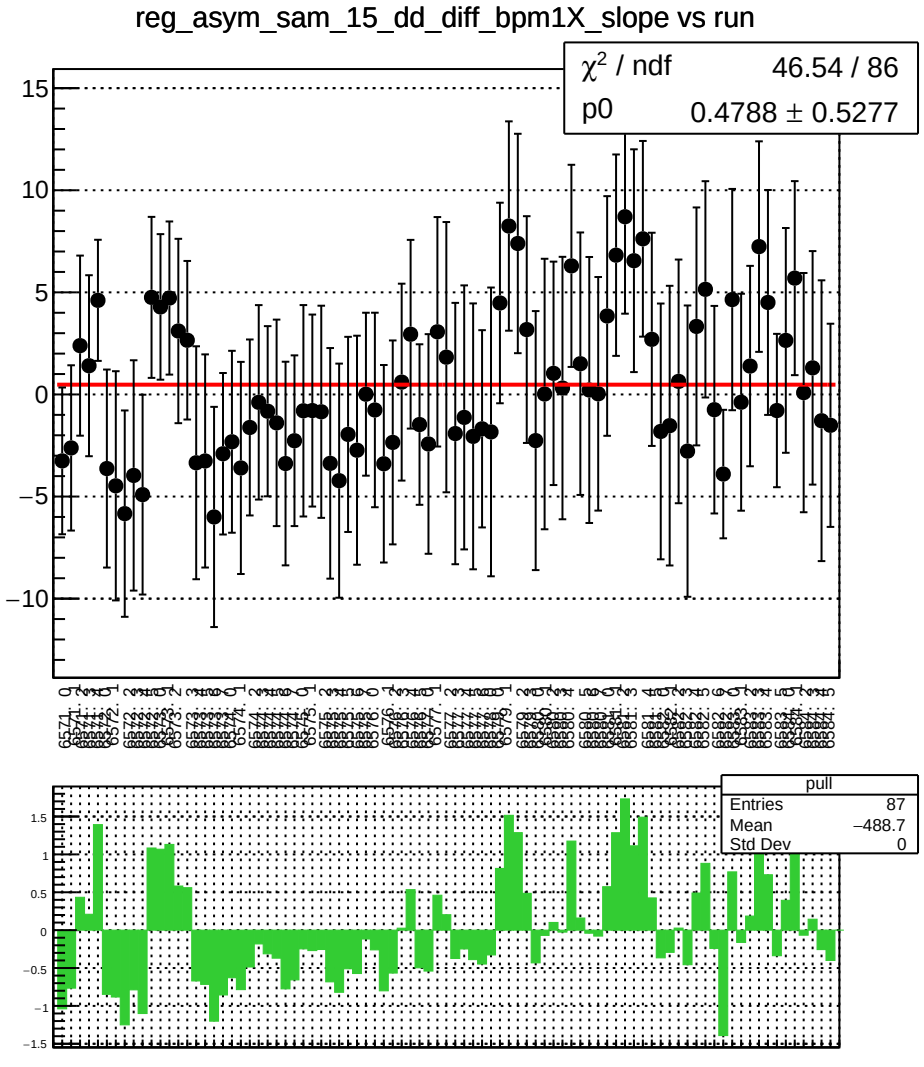

pull1D
Entries 87
Mean −0.055
Std Dev 1.791

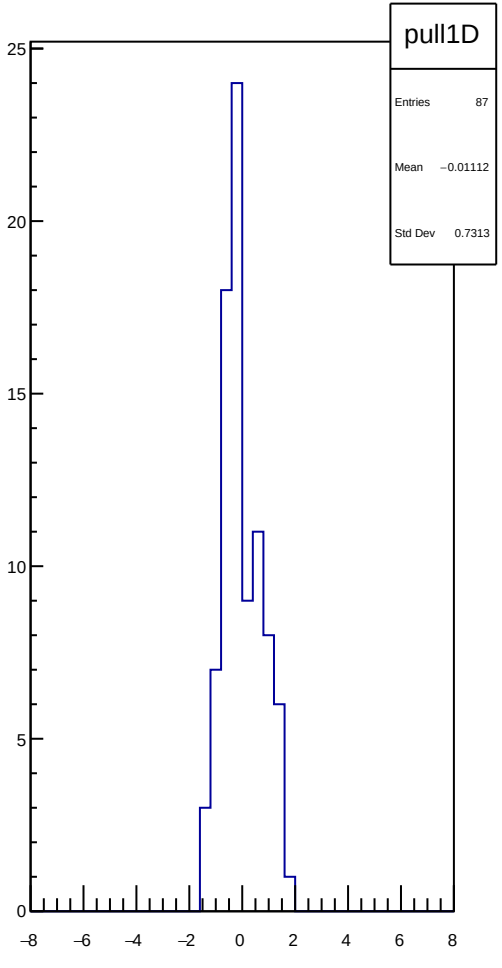

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 395.4 / 86
p0 7.586 ± 0.2807
pull
Entries 87
Mean −134.9
Std Dev 0
pull1D
Entries 87
Mean −0.08686
Std Dev 2.13

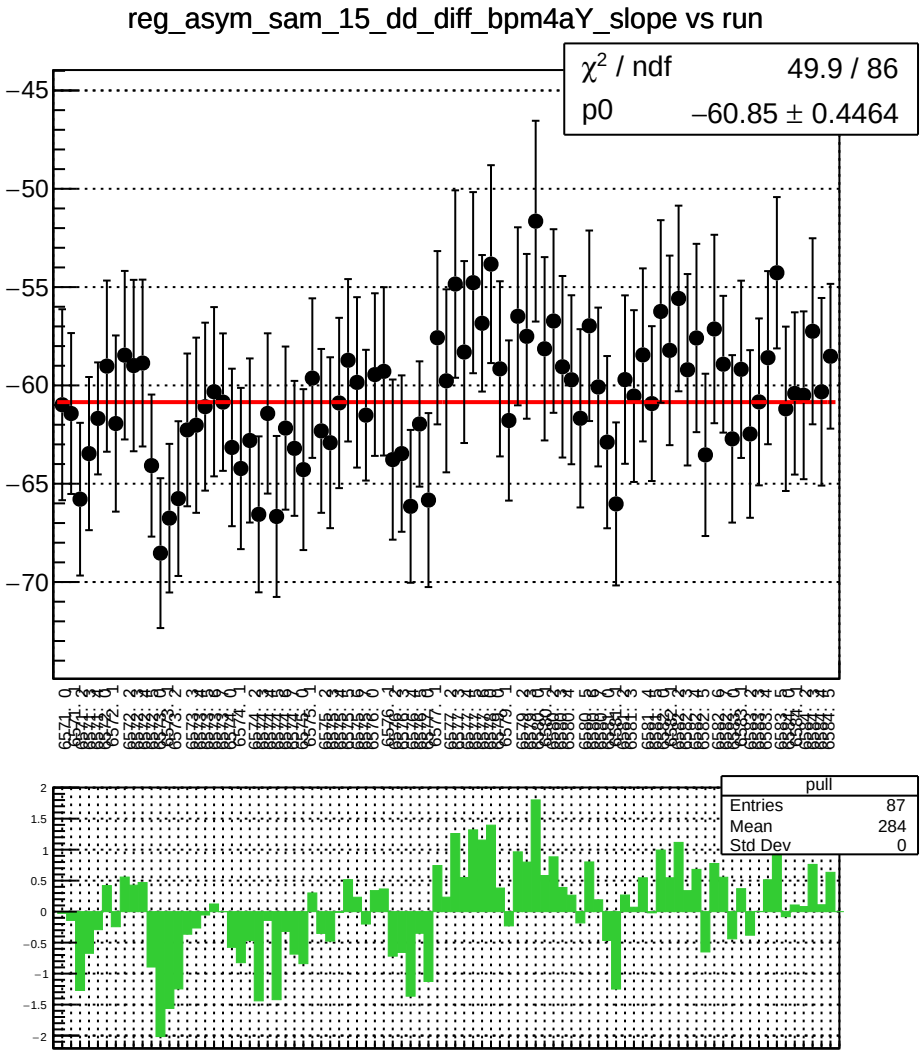

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 197.3 / 86
p0 48.88 ± 0.2752
pull
Entries 87
Mean 543.6
Std Dev 0
pull1D
Entries 87
Mean 0.027
Std Dev 1.506

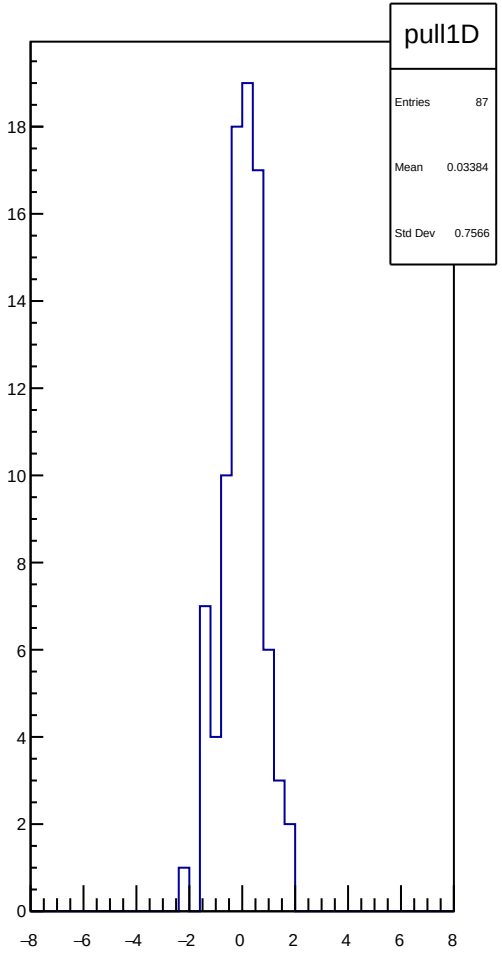

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 19.42 / 86
p0 0.2066 ± 0.01233
pull
Entries 87
Mean 180.4
Std Dev 0

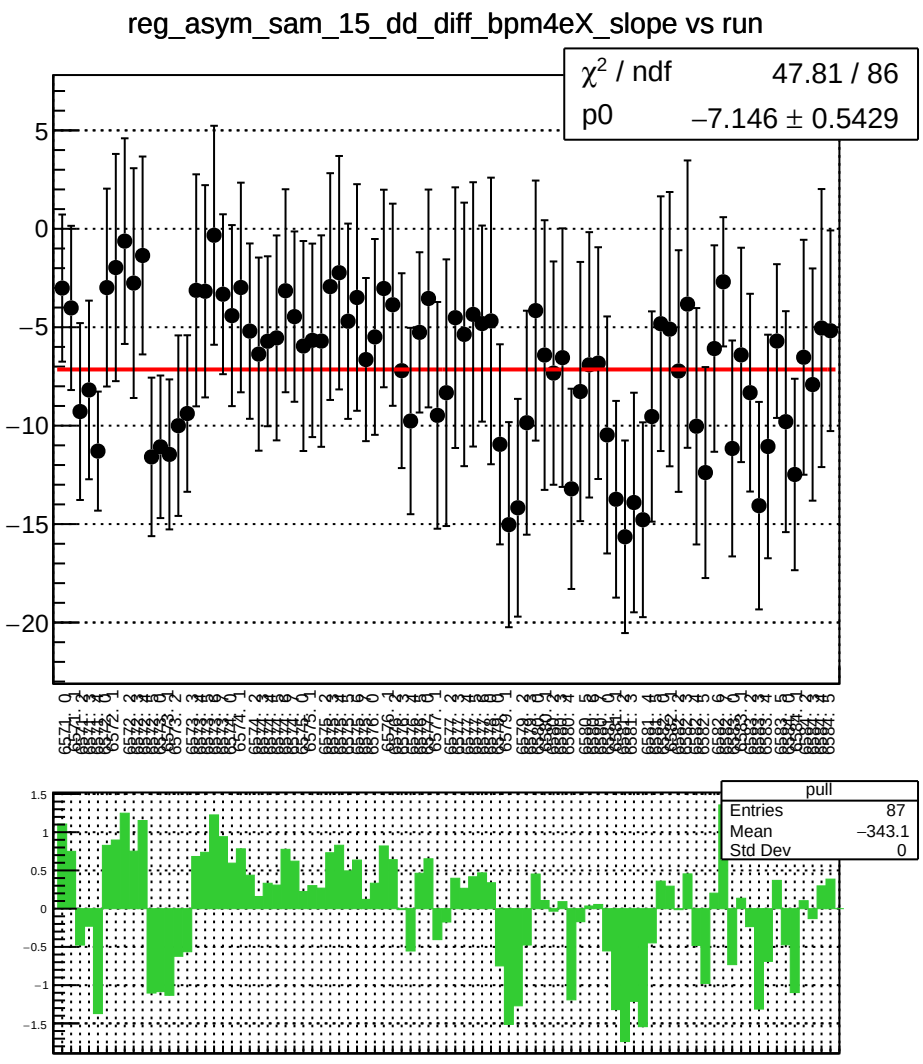

pull1D
Entries 87
Mean −0.04561
Std Dev 0.4703

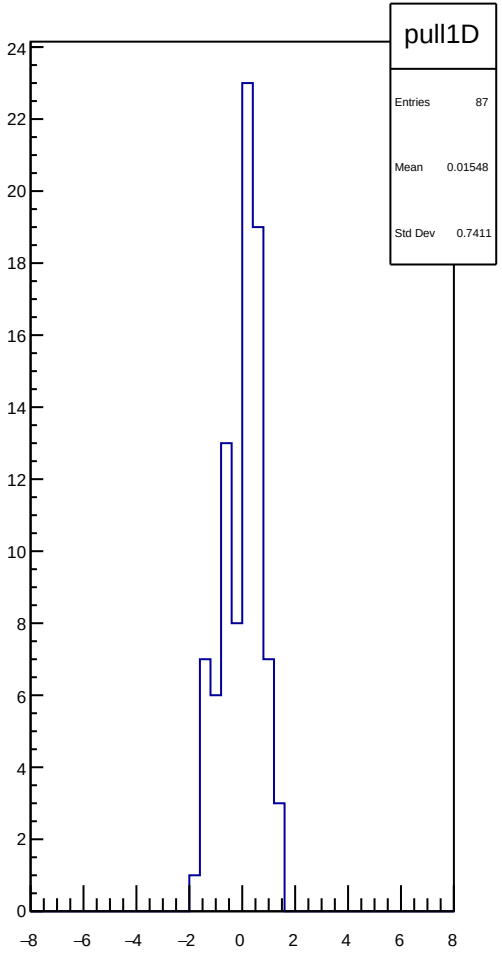

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 46.54 / 86
p0 0.4788 ± 0.5277
pull
Entries 87
Mean −488.7
Std Dev 0

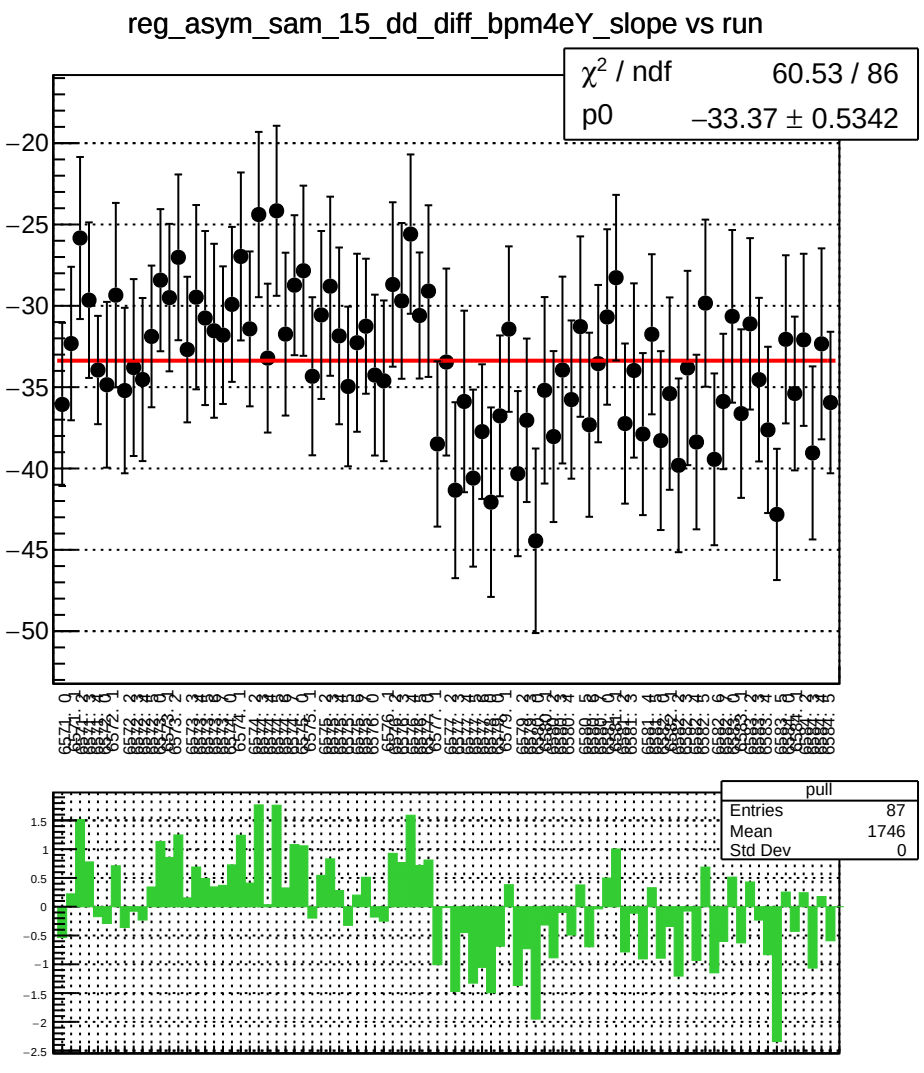

pull1D
Entries 87
Mean −0.01112
Std Dev 0.7313

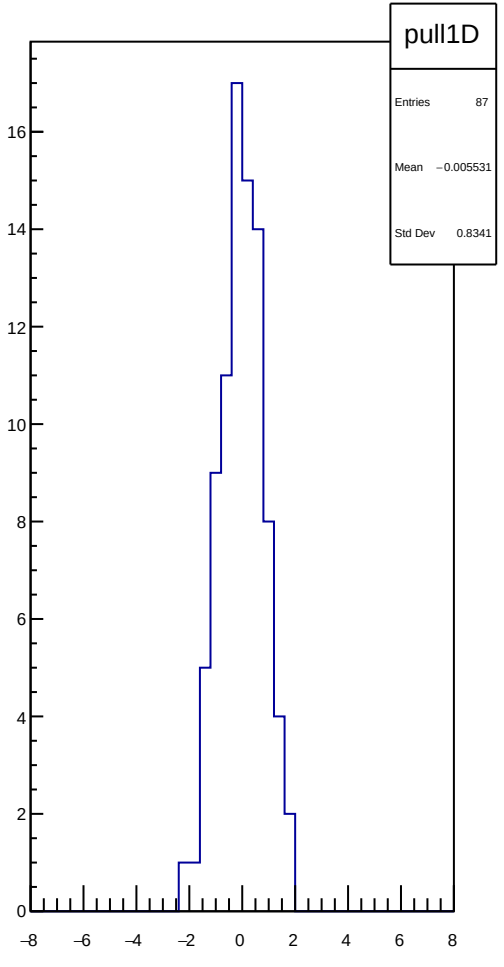

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.9 / 86
p0 −60.85 ± 0.4464
pull
Entries 87
Mean 284
Std Dev 0

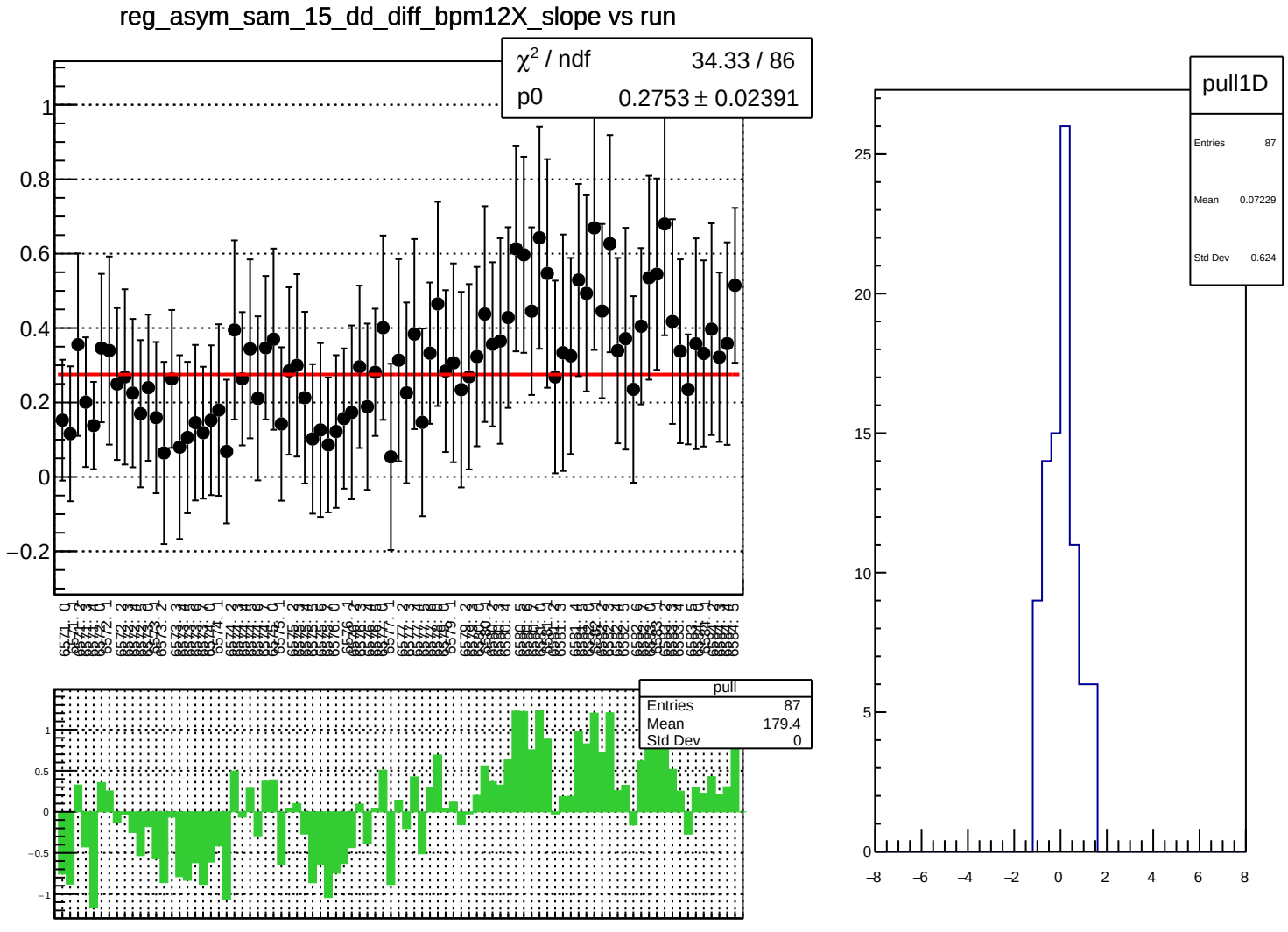

pull1D
Entries 87
Mean 0.03384
Std Dev 0.7566

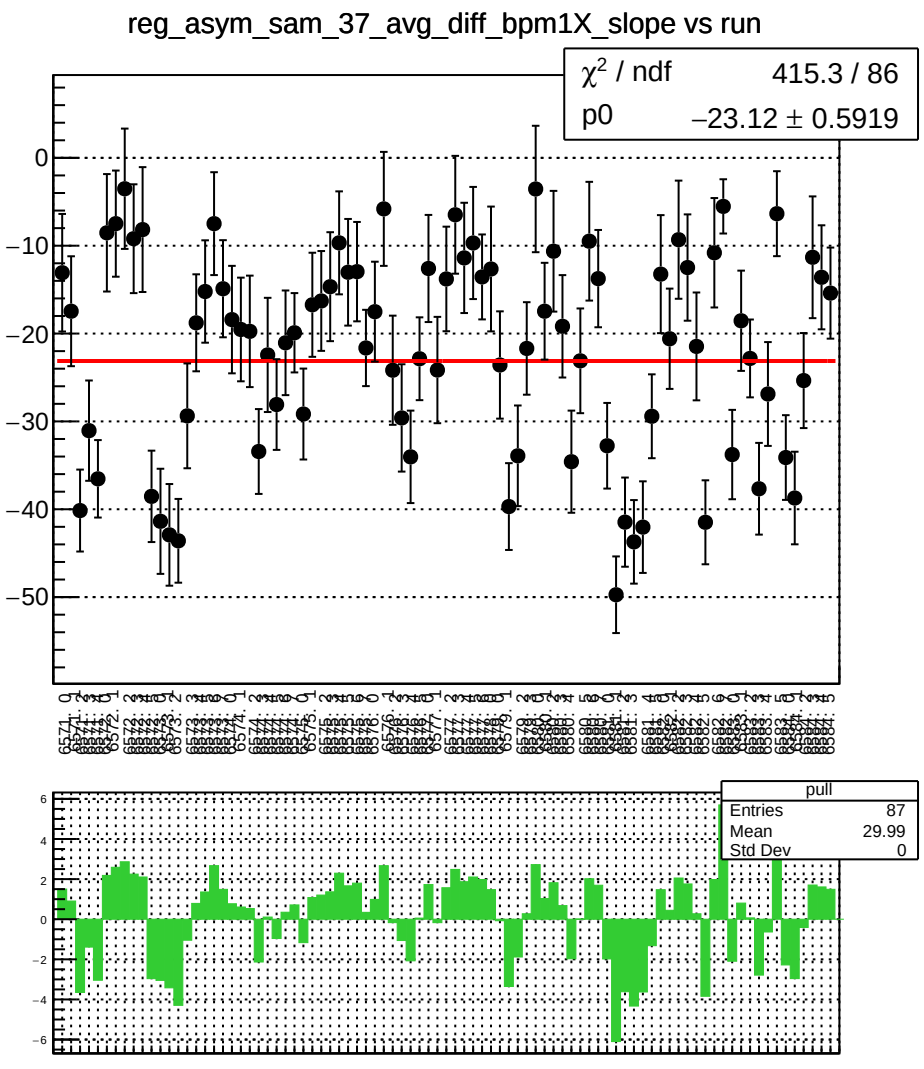

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.81 / 86
p0 −7.146 ± 0.5429
pull
Entries 87
Mean −343.1
Std Dev 0

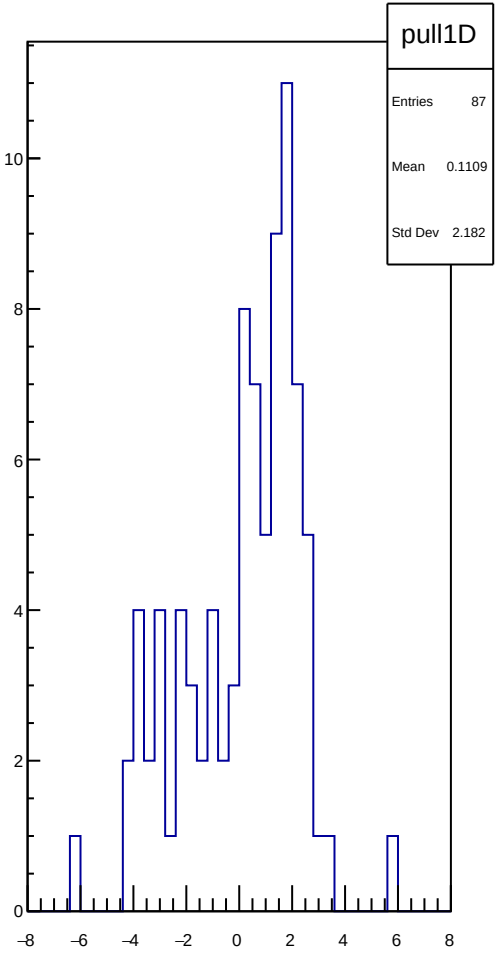

pull1D
Entries 87
Mean 0.01548
Std Dev 0.7411

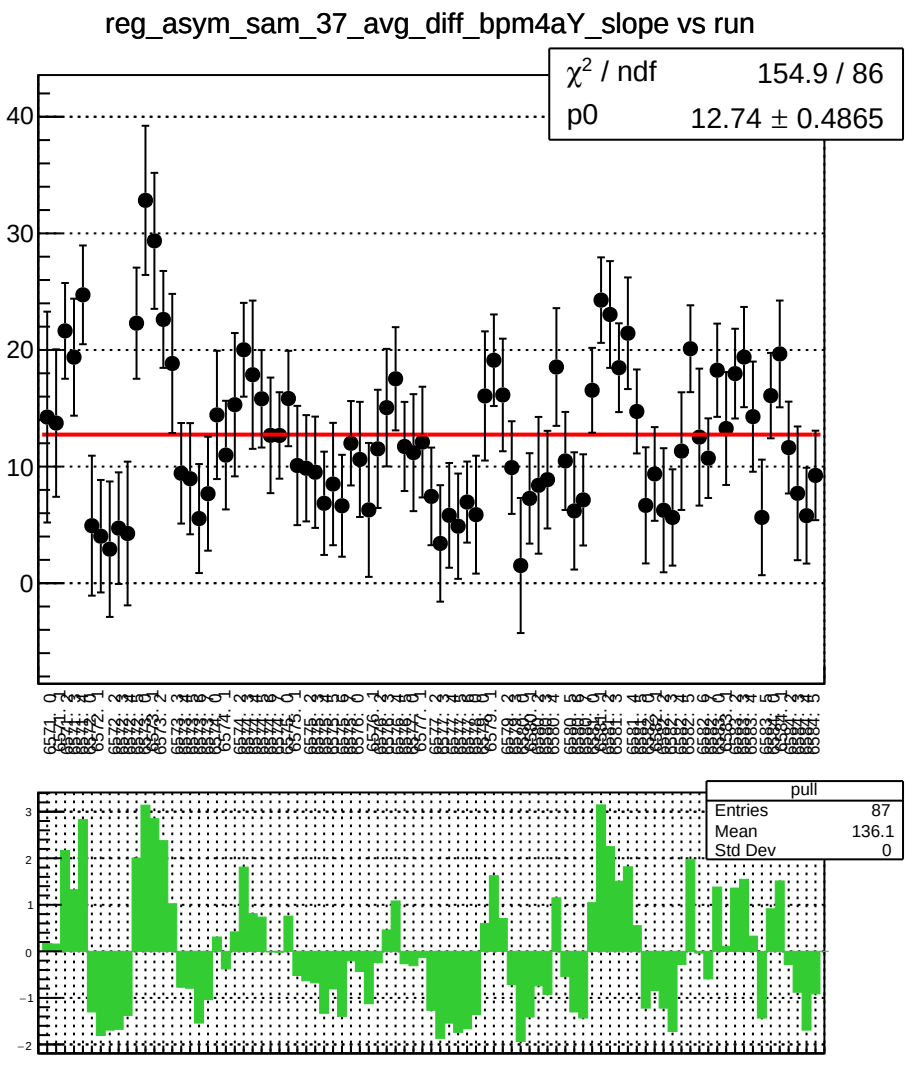

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.53 / 86
p0 −33.37 ± 0.5342
pull
Entries 87
Mean 1746
Std Dev 0

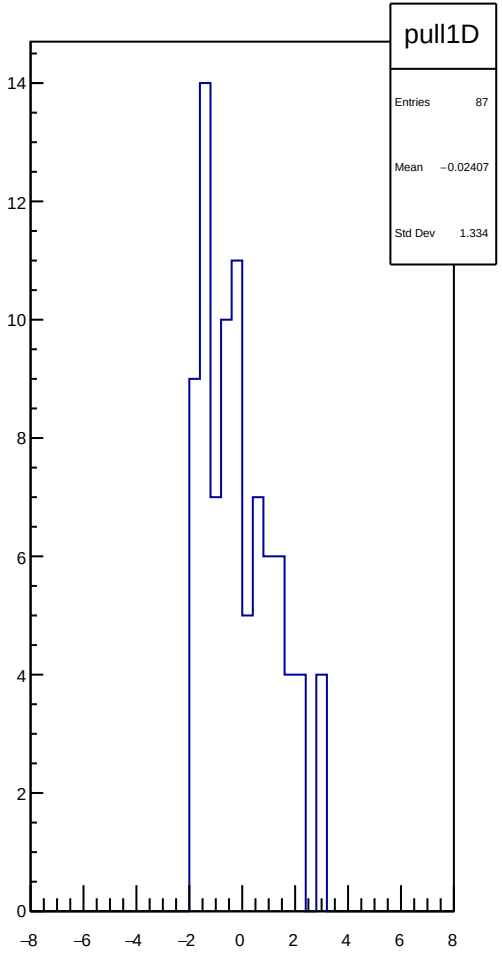

pull1D
Entries 87
Mean −0.005531
Std Dev 0.8341

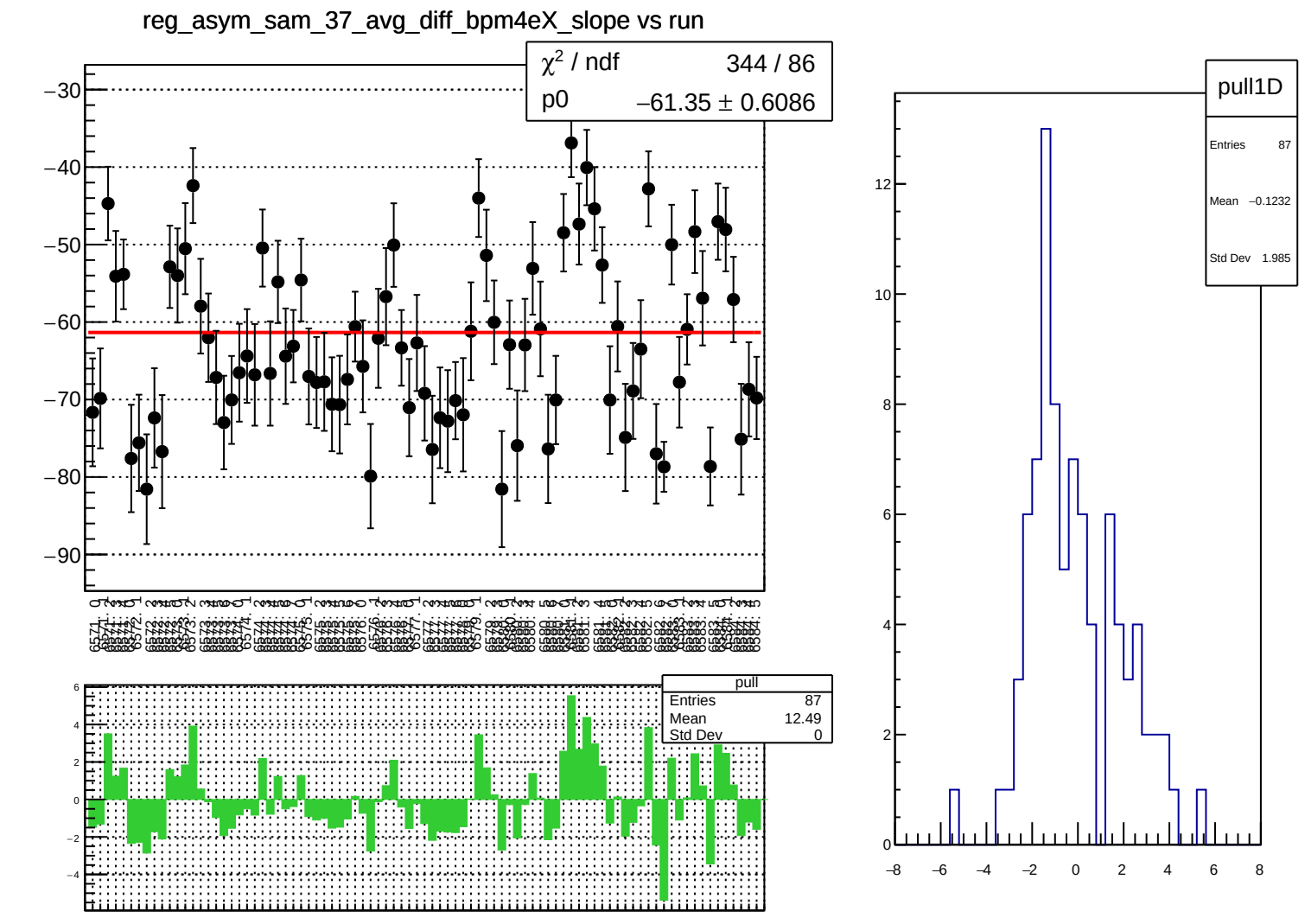

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 34.33 / 86
p0 0.2753 ± 0.02391
pull
Entries 87
Mean 179.4
Std Dev 0
pull1D
Entries 87
Mean 0.07229
Std Dev 0.624

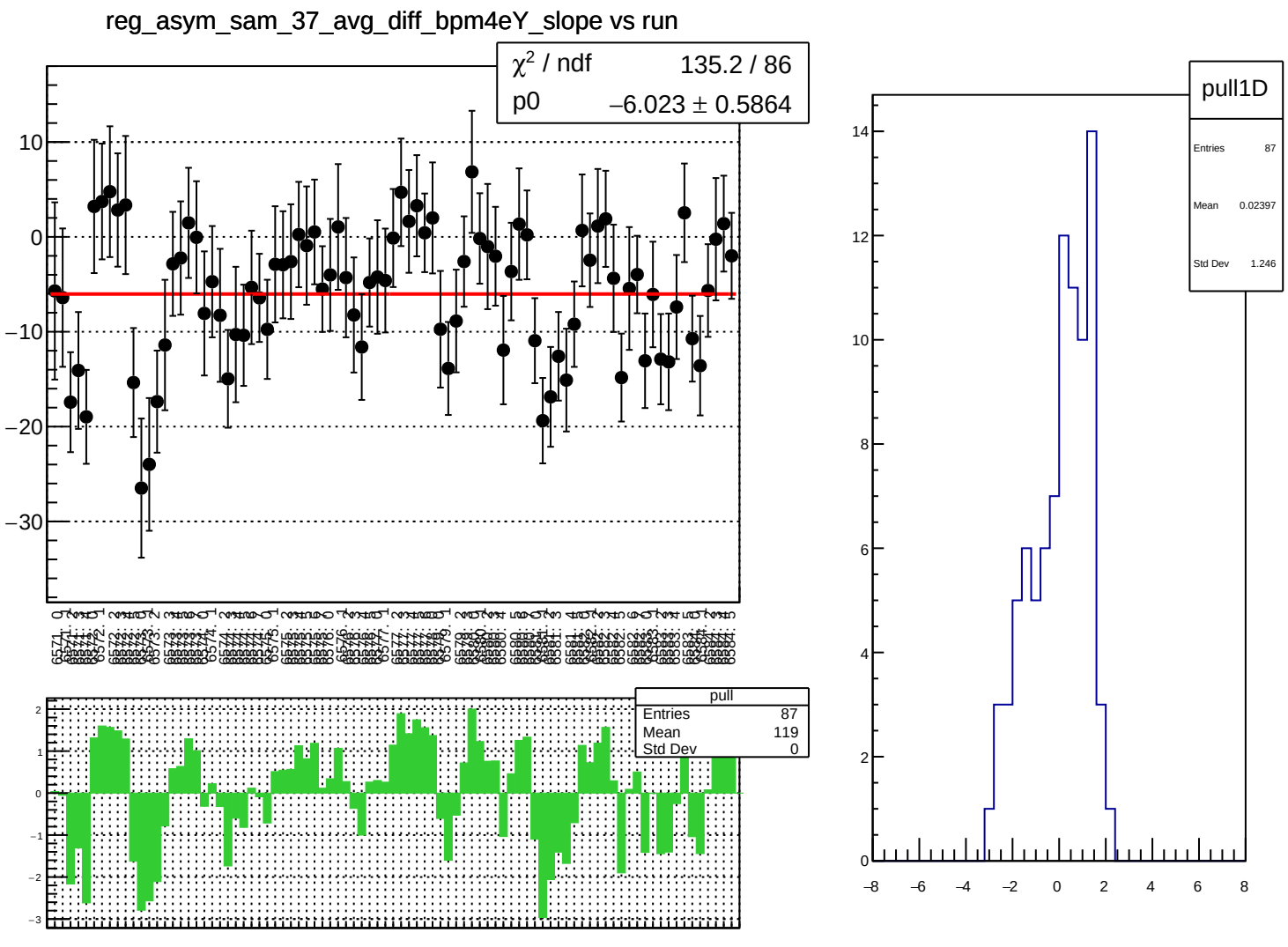

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 415.3 / 86
p0 −23.12 ± 0.5919
0
−10
−20
−30
−40
−50
pull
Entries 87
Mean 29.99
Std Dev 0
6
4
2
0
−2
−4
−6

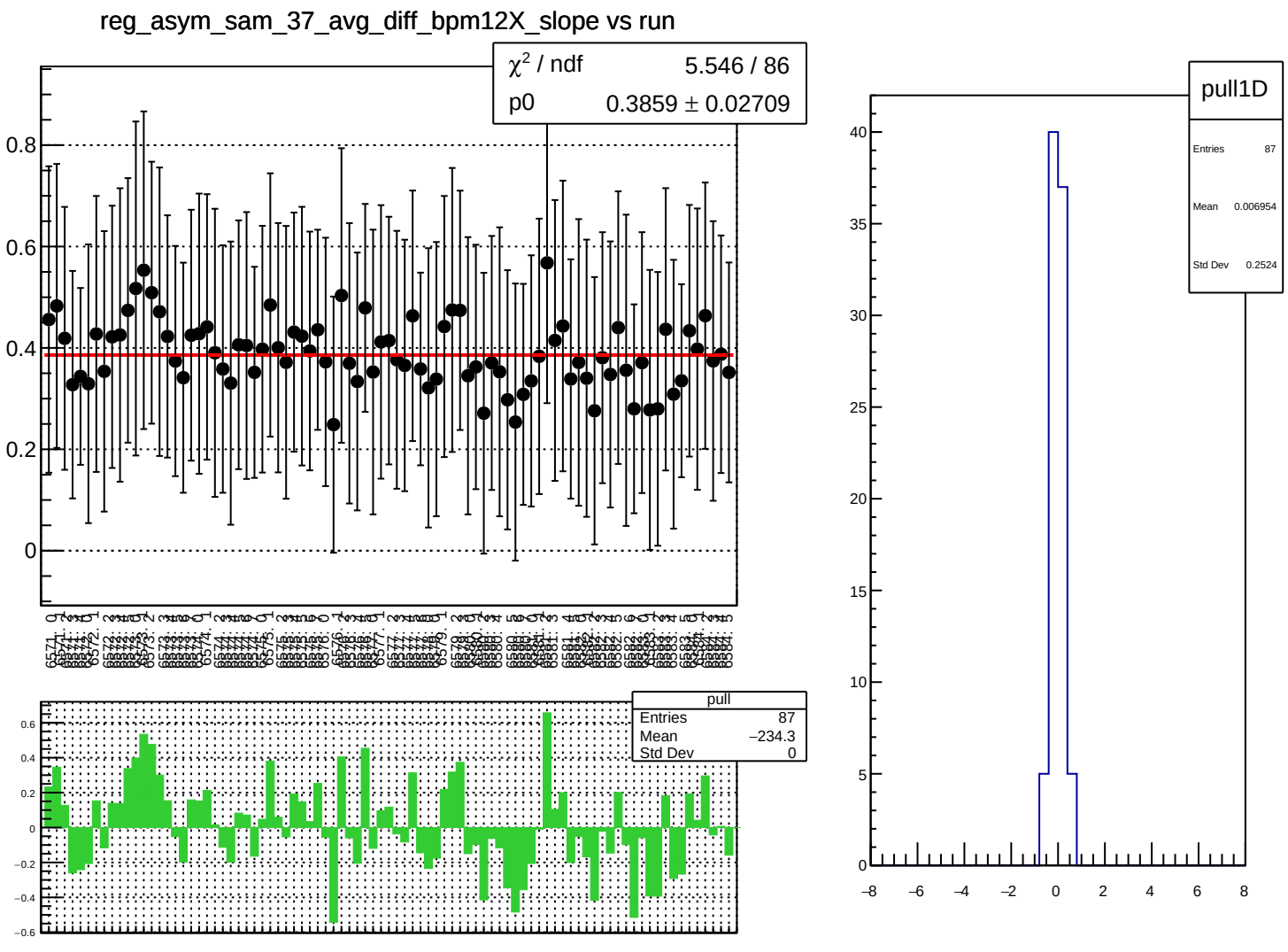

pull1D
Entries 87
Mean 0.1109
Std Dev 2.182
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

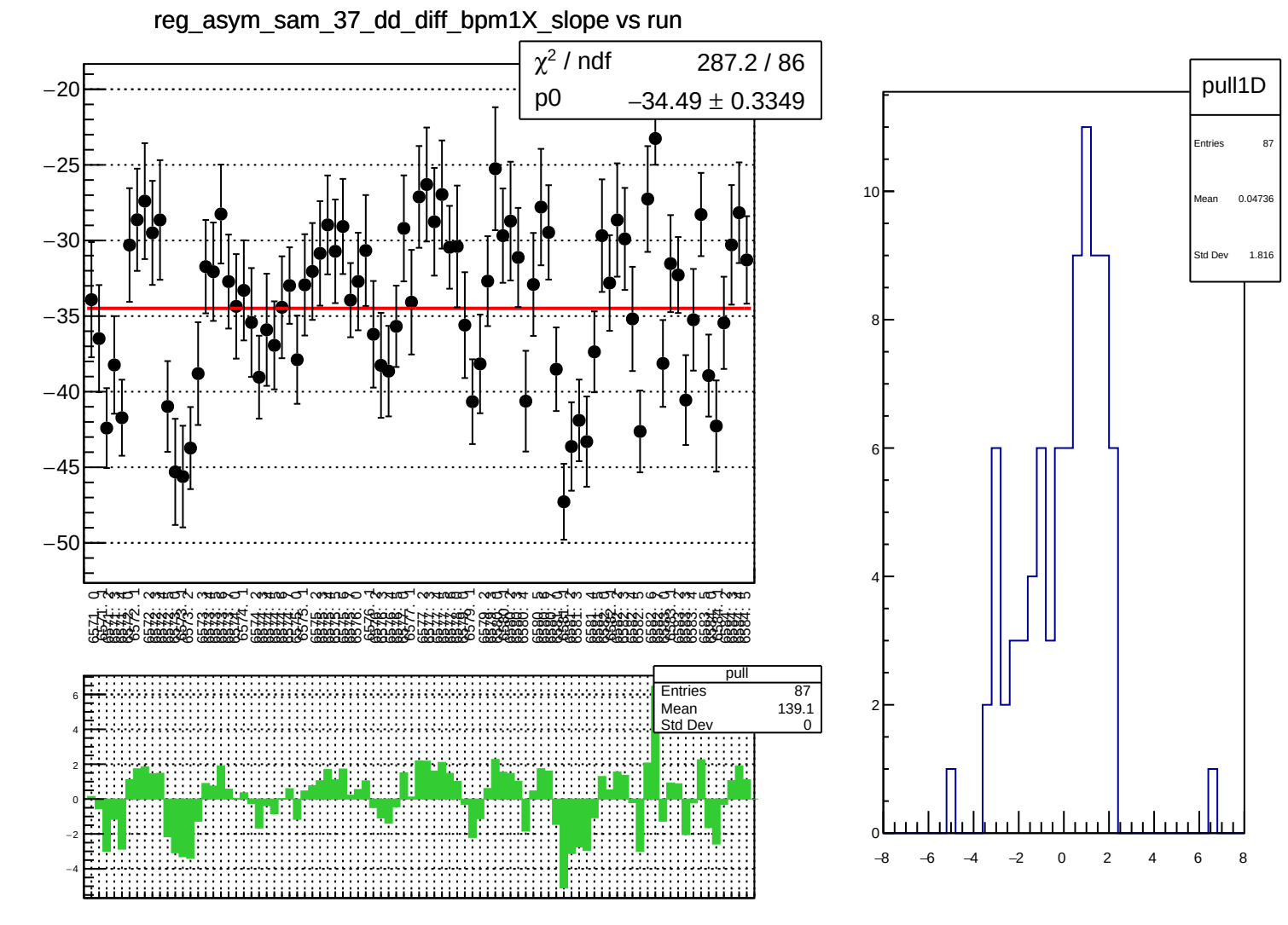

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 154.9 / 86
p0 12.74 ± 0.4865
pull
Entries 87
Mean 136.1
Std Dev 0

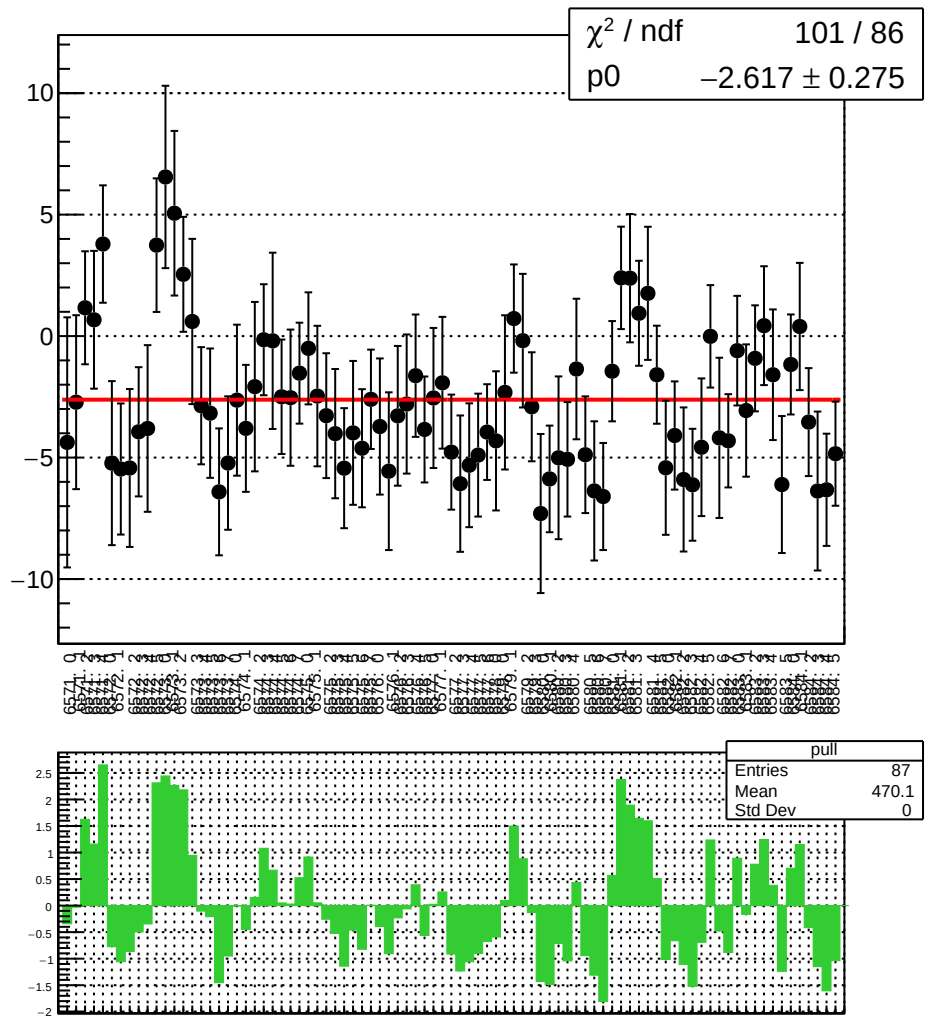

pull1D
Entries 87
Mean −0.02407
Std Dev 1.334

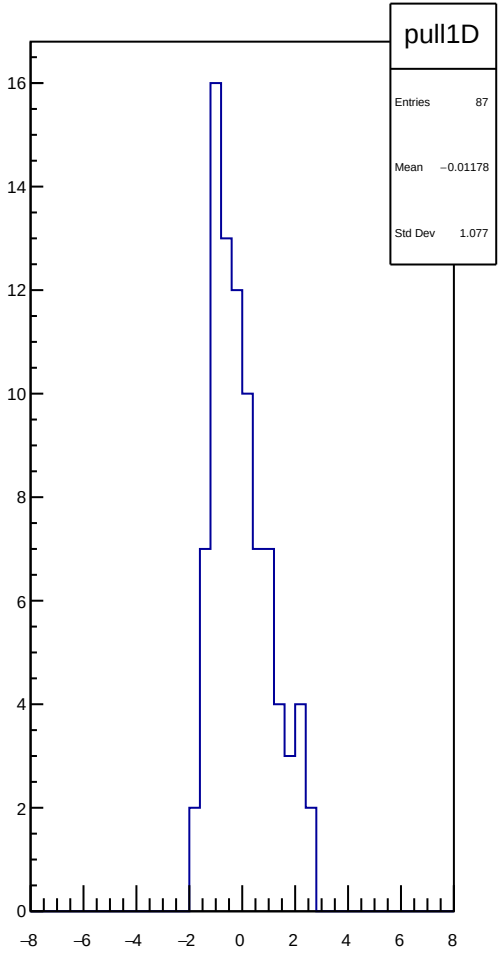

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 344 / 86
p0 −61.35 ± 0.6086
pull
Entries 87
Mean 12.49
Std Dev 0
pull1D
Entries 87
Mean −0.1232
Std Dev 1.985

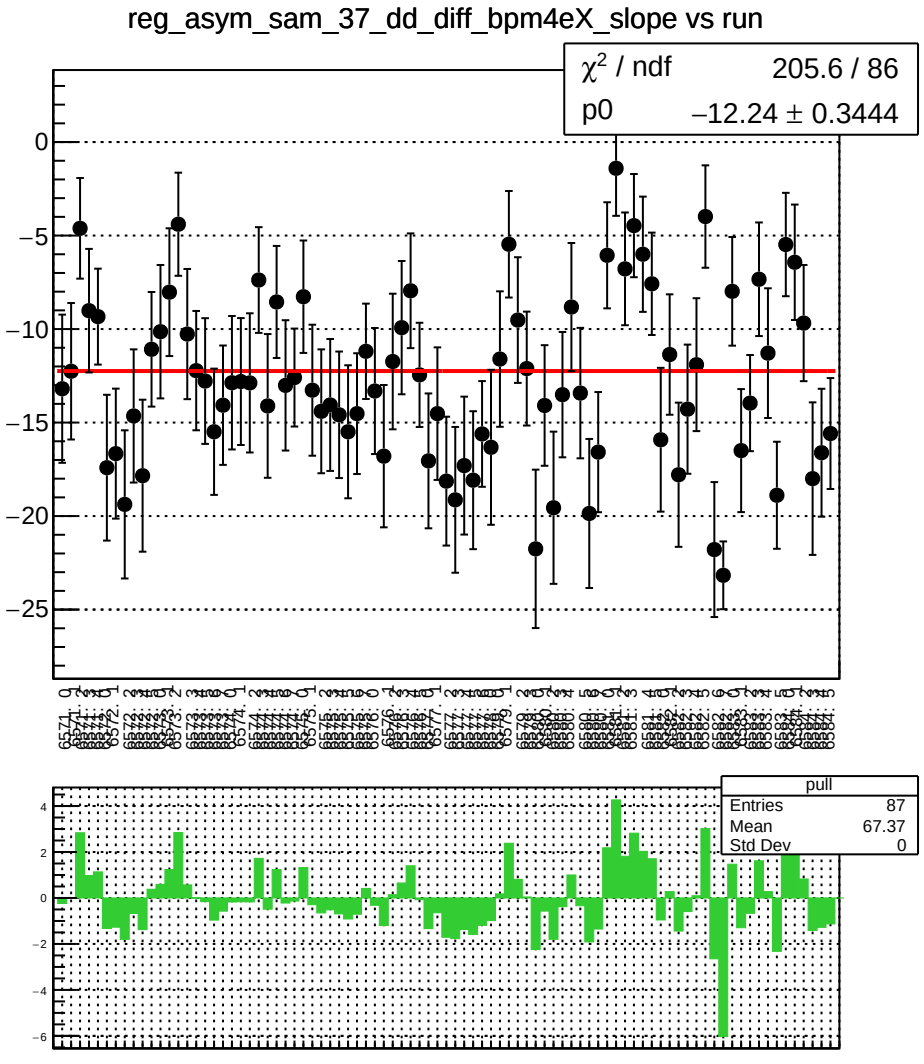

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 135.2 / 86
p0 −6.023 ± 0.5864
pull
Entries 87
Mean 119
Std Dev 0
pull1D
Entries 87
Mean 0.02397
Std Dev 1.246

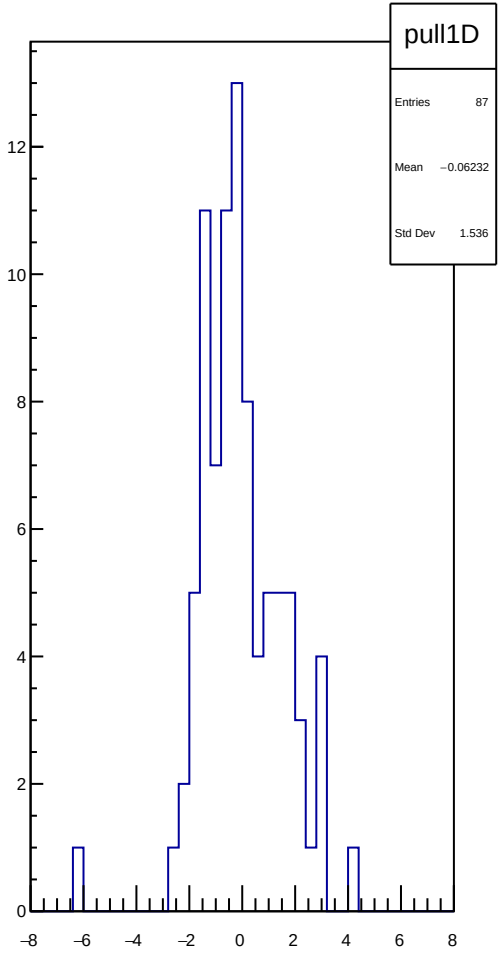

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 5.546 / 86
p0 0.3859 ± 0.02709
pull
Entries 87
Mean −234.3
Std Dev 0
pull1D
Entries 87
Mean 0.006954
Std Dev 0.2524

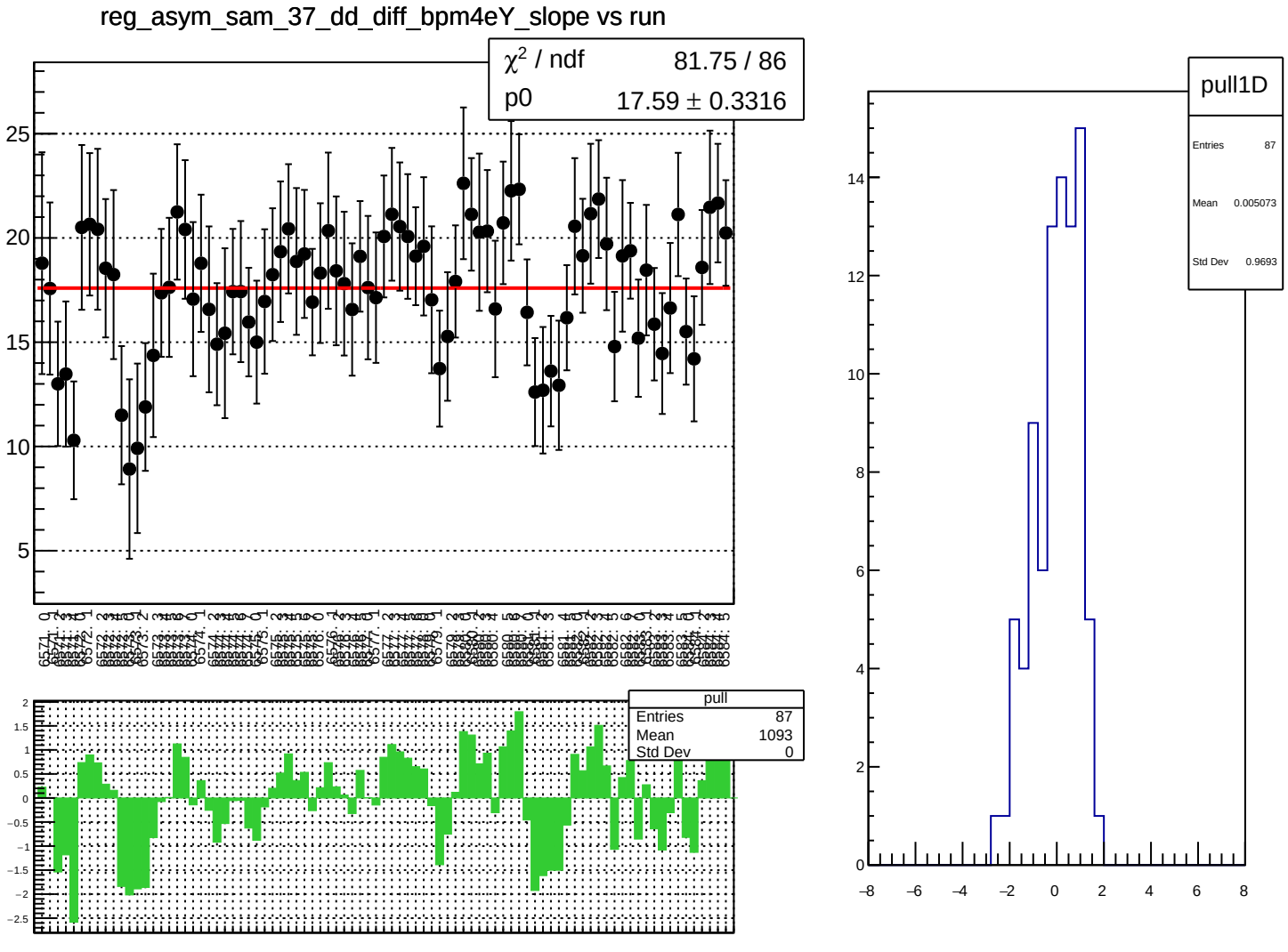

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 287.2 / 86
p0 −34.49 ± 0.3349
pull
Entries 87
Mean 139.1
Std Dev 0
pull1D
Entries 87
Mean 0.04736
Std Dev 1.816

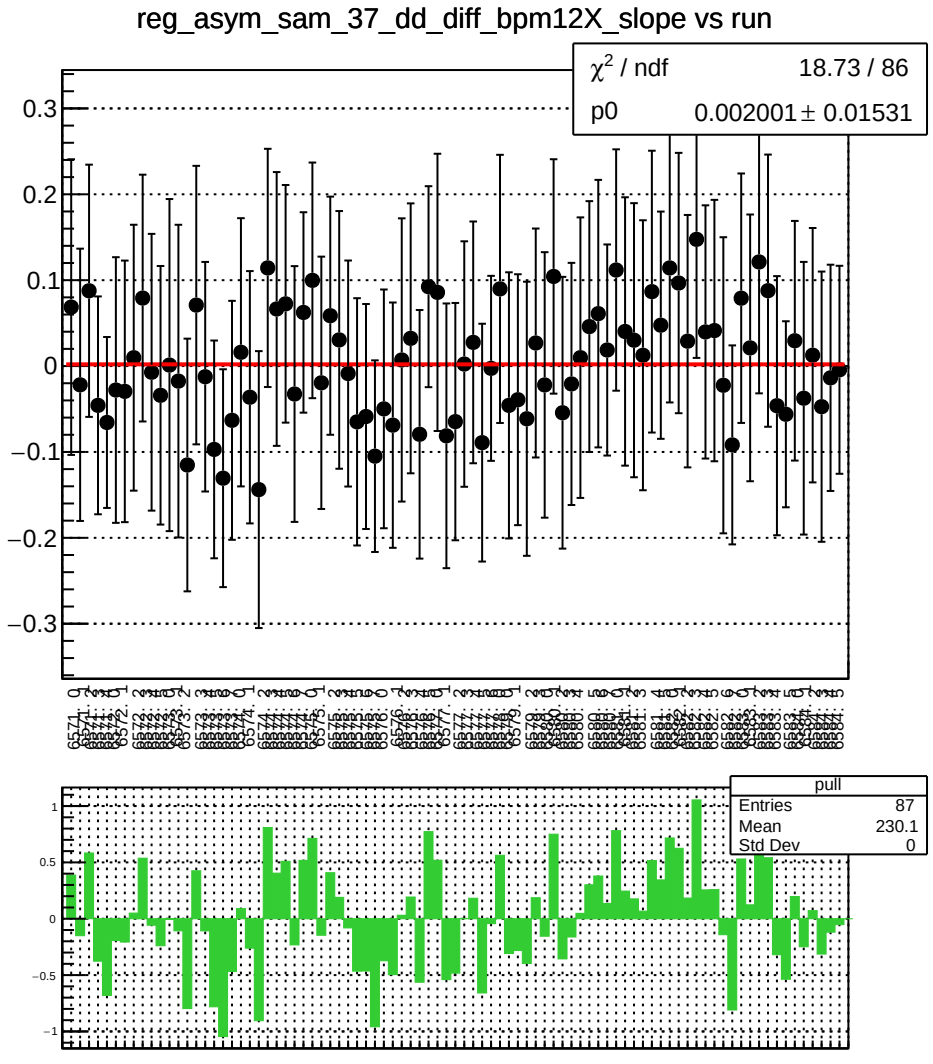

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 101 / 86
p0 −2.617 ± 0.275
pull
Entries 87
Mean 470.1
Std Dev 0

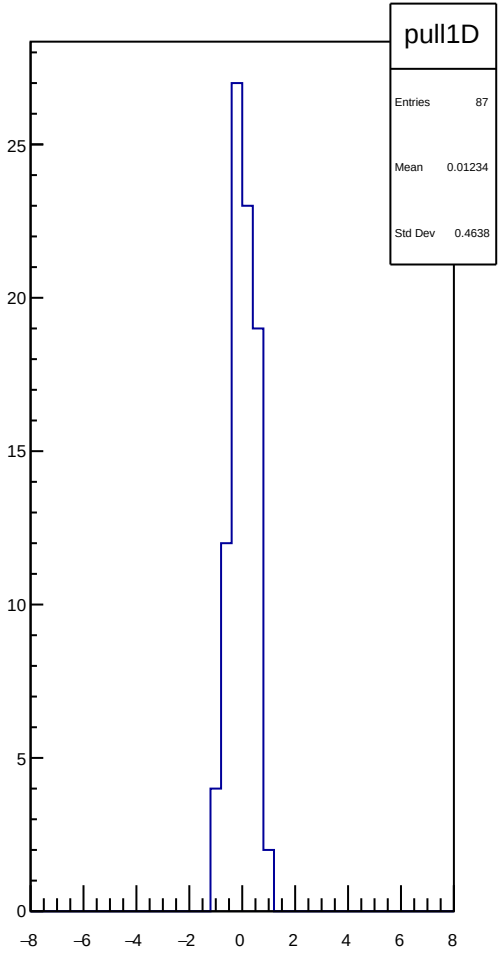

pull1D
Entries 87
Mean −0.01178
Std Dev 1.077

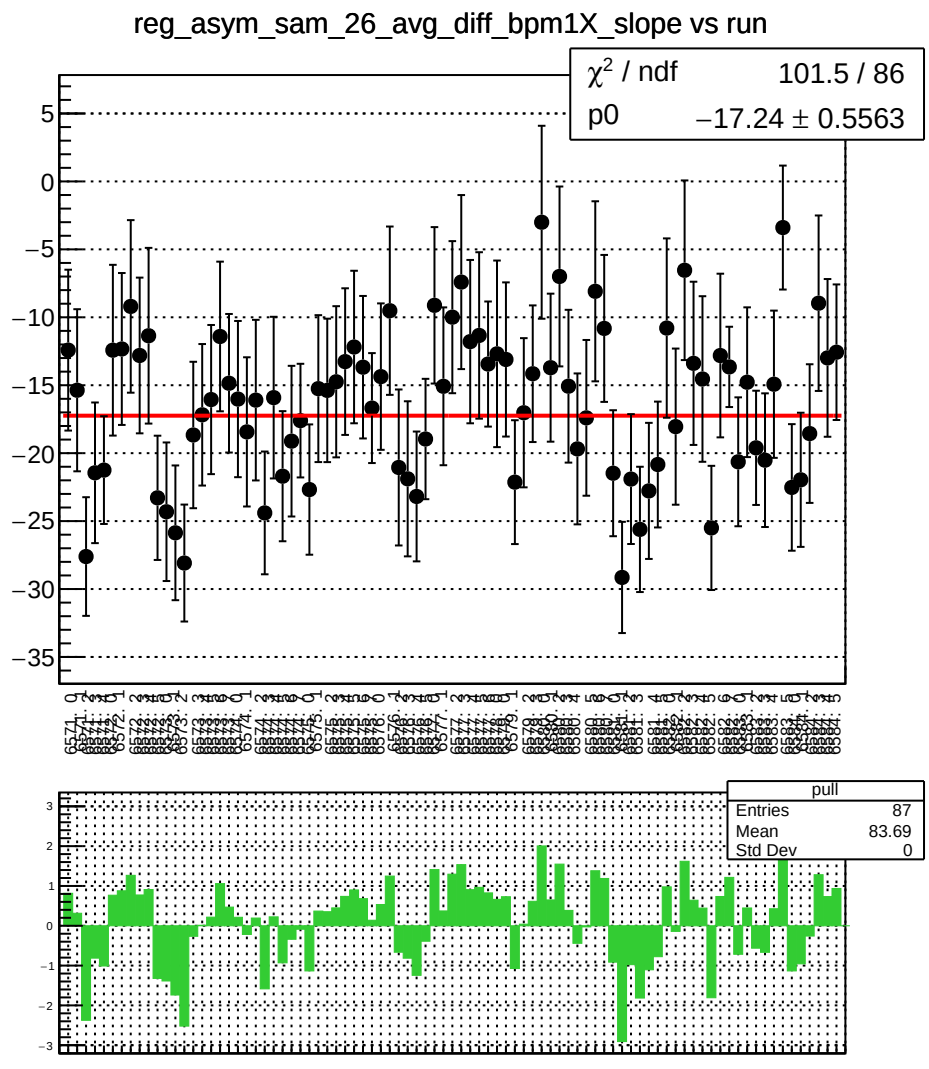

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 205.6 / 86
p0 −12.24 ± 0.3444
pull
Entries 87
Mean 67.37
Std Dev 0

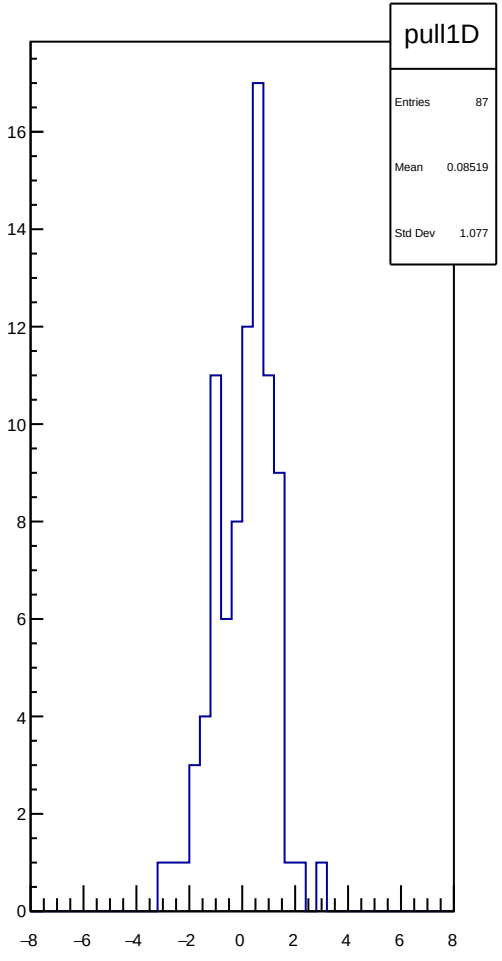

pull1D
Entries 87
Mean −0.06232
Std Dev 1.536

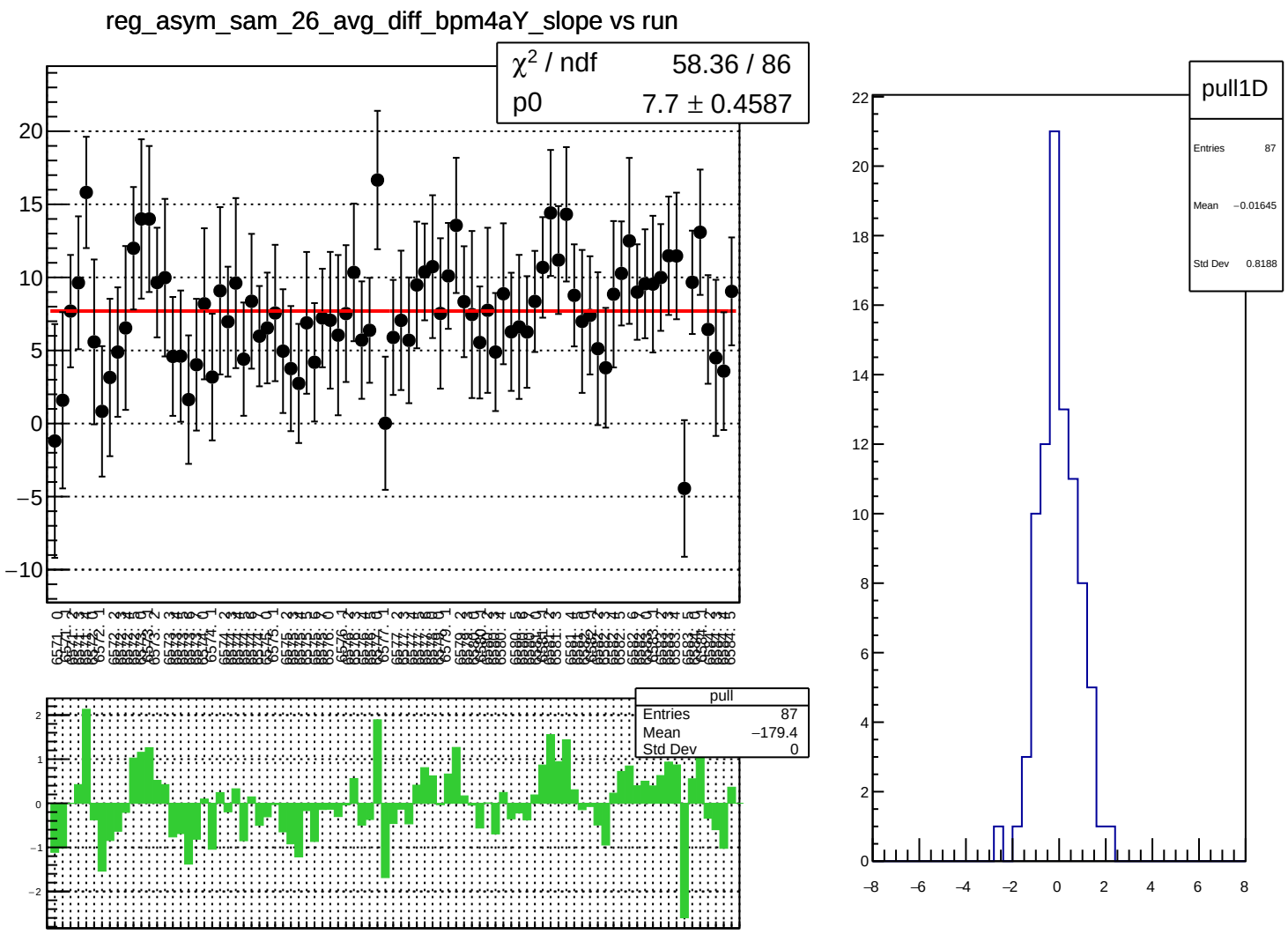

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.75 / 86
p0 17.59 ± 0.3316
pull
Entries 87
Mean 1093
Std Dev 0
pull1D
Entries 87
Mean 0.005073
Std Dev 0.9693

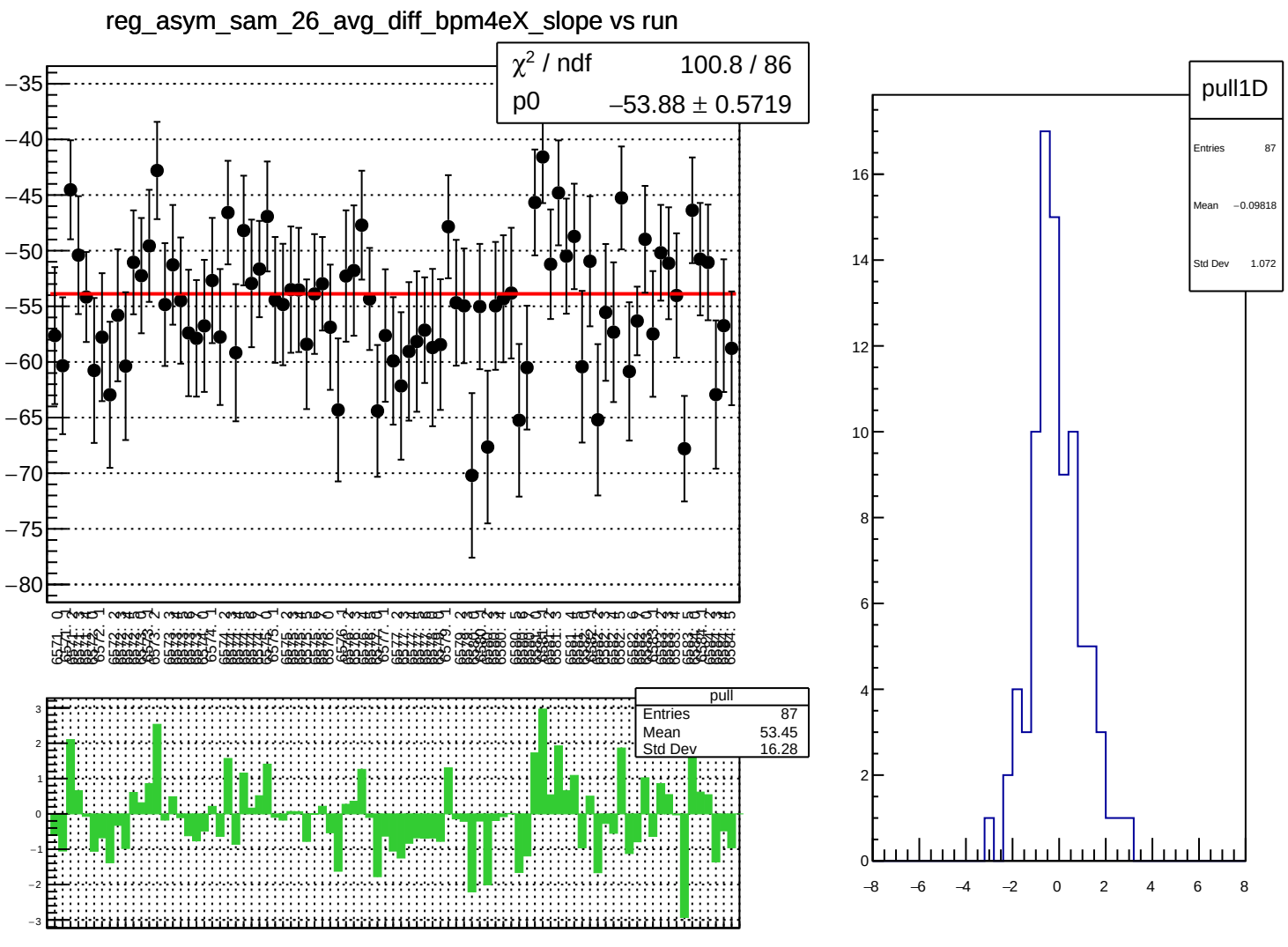

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 18.73 / 86
p0 0.002001 ± 0.01531
pull
Entries 87
Mean 230.1
Std Dev 0

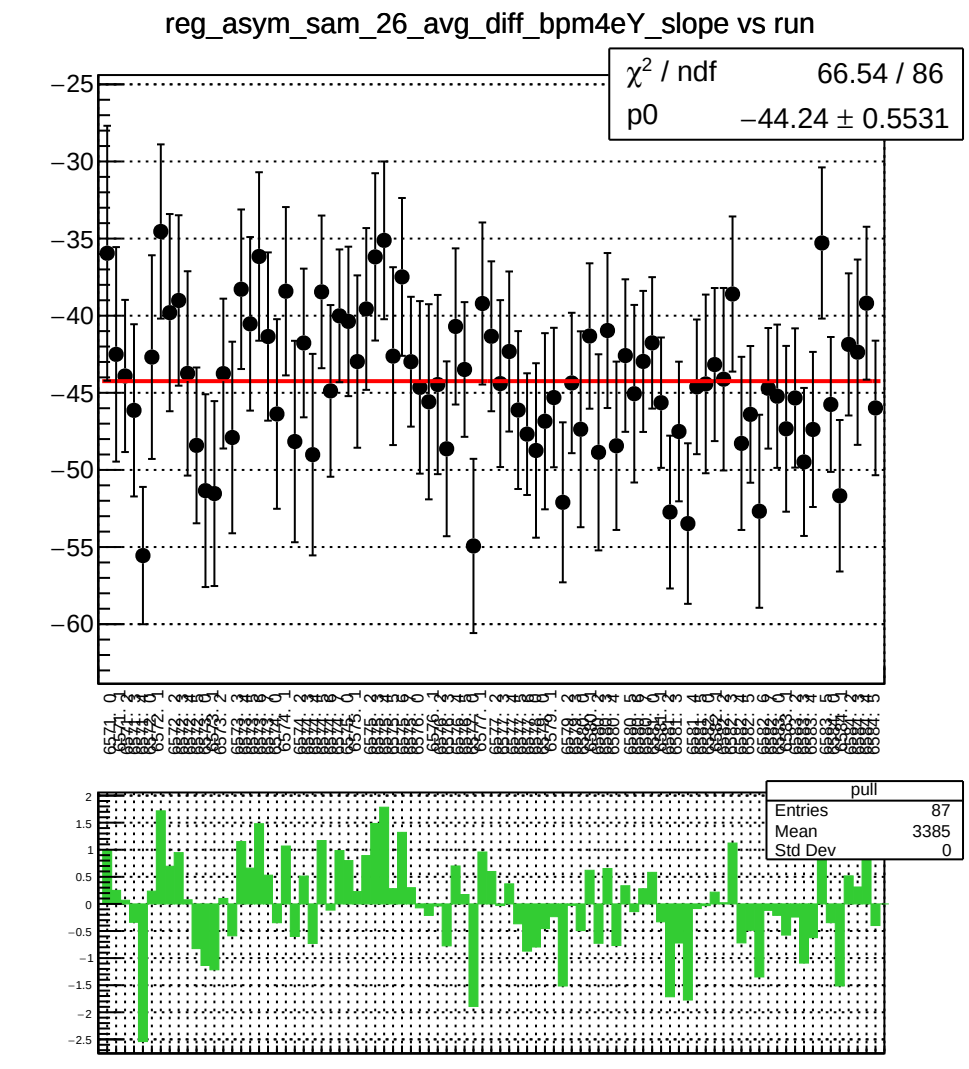

pull1D
Entries 87
Mean 0.01234
Std Dev 0.4638

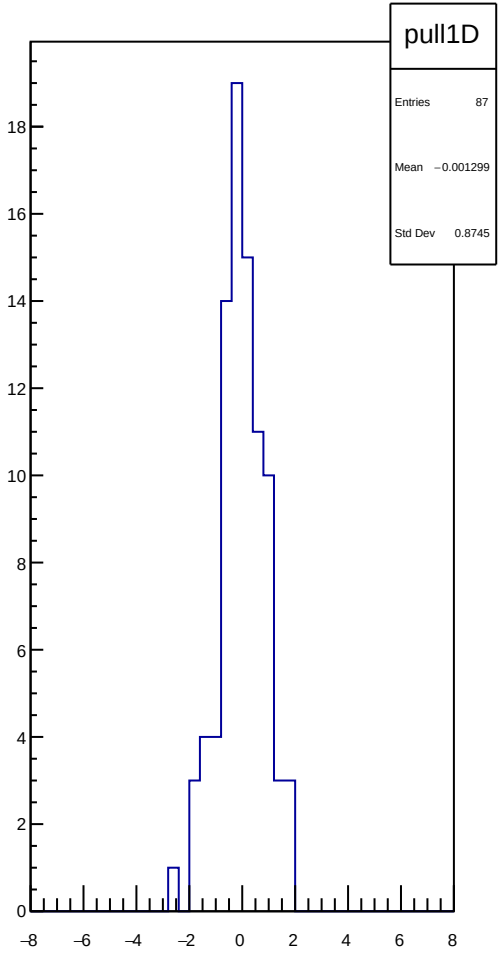

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 101.5 / 86
p0 −17.24 ± 0.5563
pull
Entries 87
Mean 83.69
Std Dev 0

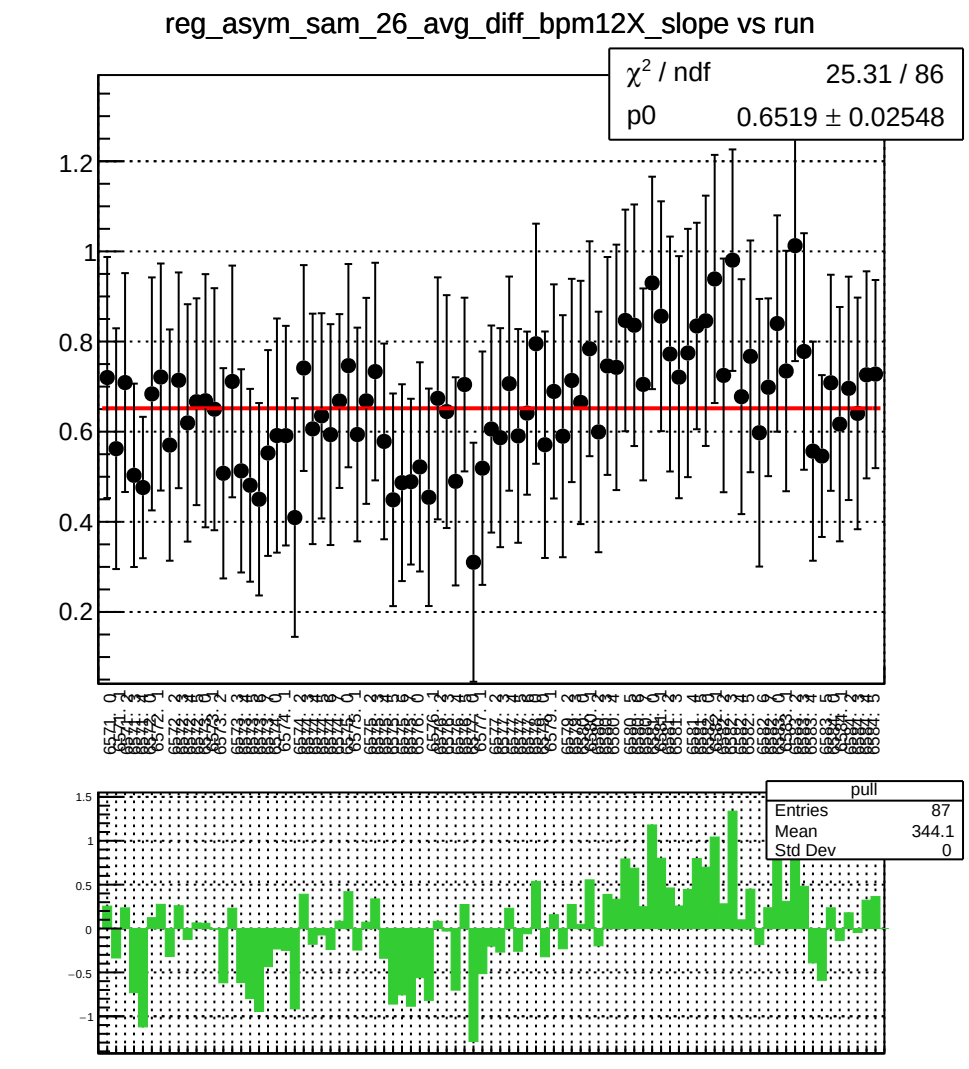

pull1D
Entries 87
Mean 0.08519
Std Dev 1.077

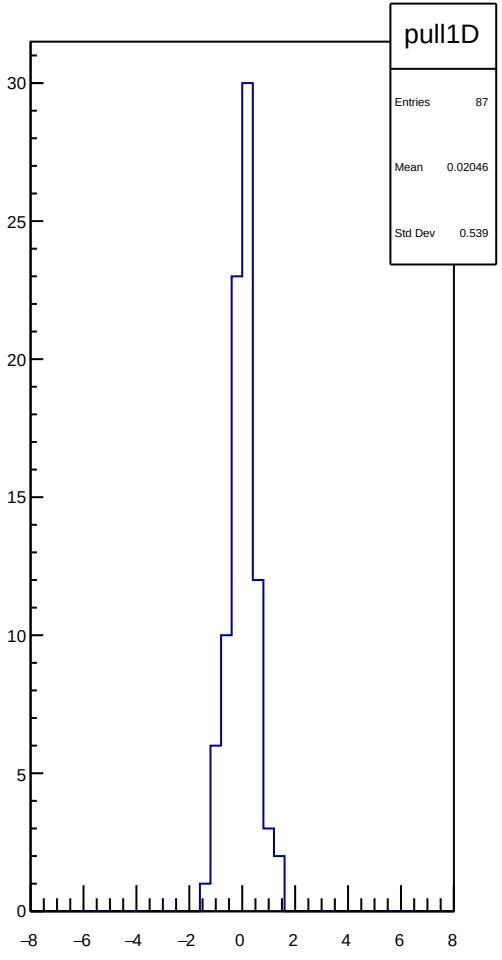

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.36 / 86
p0 7.7 ± 0.4587
pull
Entries 87
Mean −179.4
Std Dev 0
pull1D
Entries 87
Mean −0.01645
Std Dev 0.8188

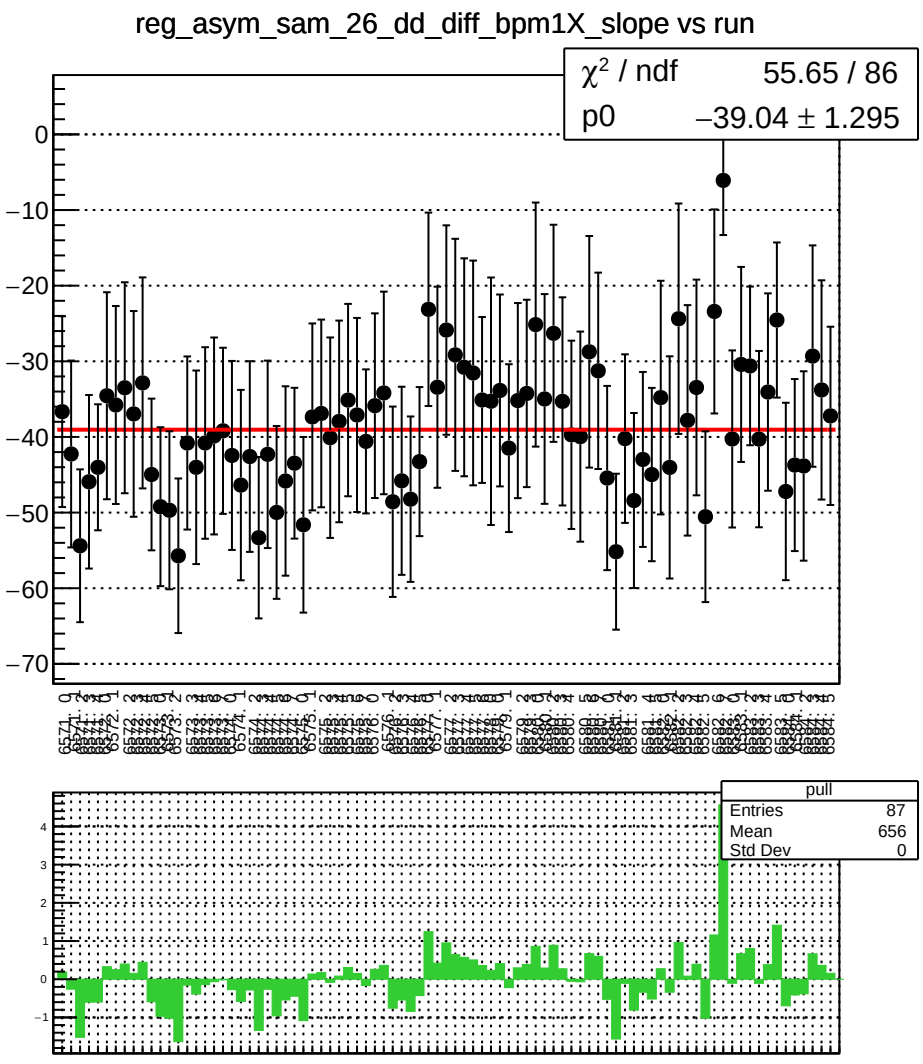

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 100.8 / 86
p0 −53.88 ± 0.5719
pull
Entries 87
Mean 53.45
Std Dev 16.28
pull1D
Entries 87
Mean −0.09818
Std Dev 1.072

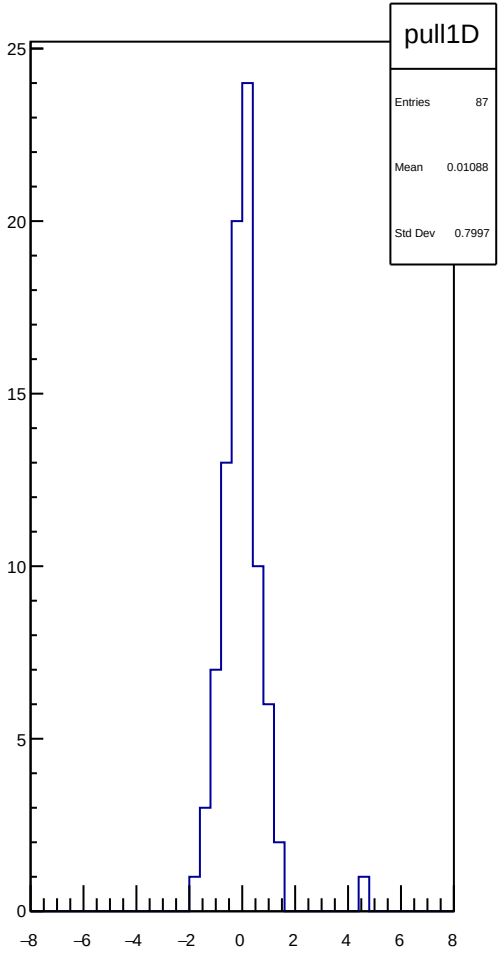

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.54 / 86
p0 −44.24 ± 0.5531
pull
Entries 87
Mean 3385
Std Dev 0

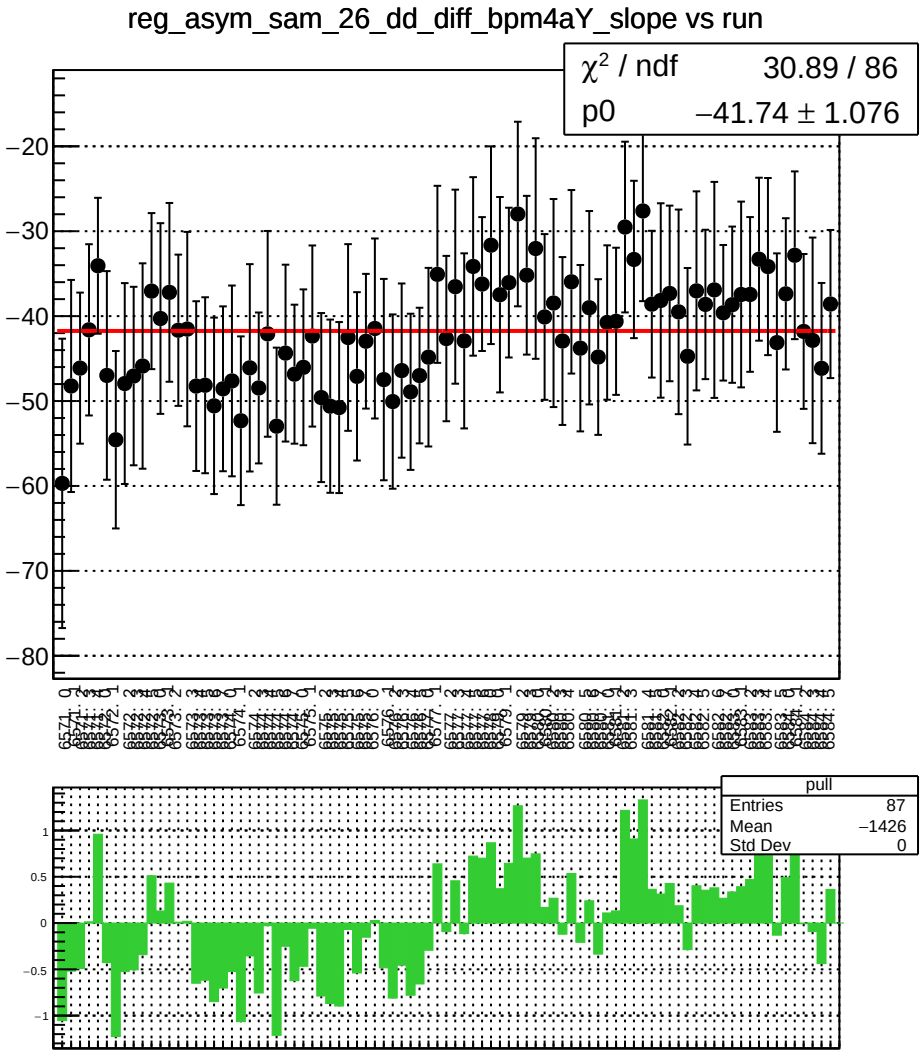

pull1D
Entries 87
Mean −0.001299
Std Dev 0.8745

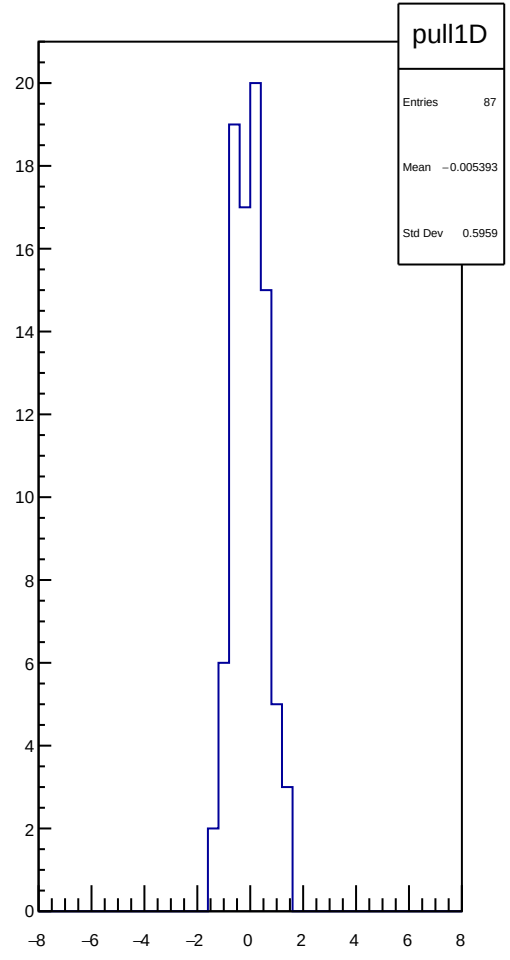

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 25.31 / 86
p0 0.6519 ± 0.02548
pull
Entries 87
Mean 344.1
Std Dev 0

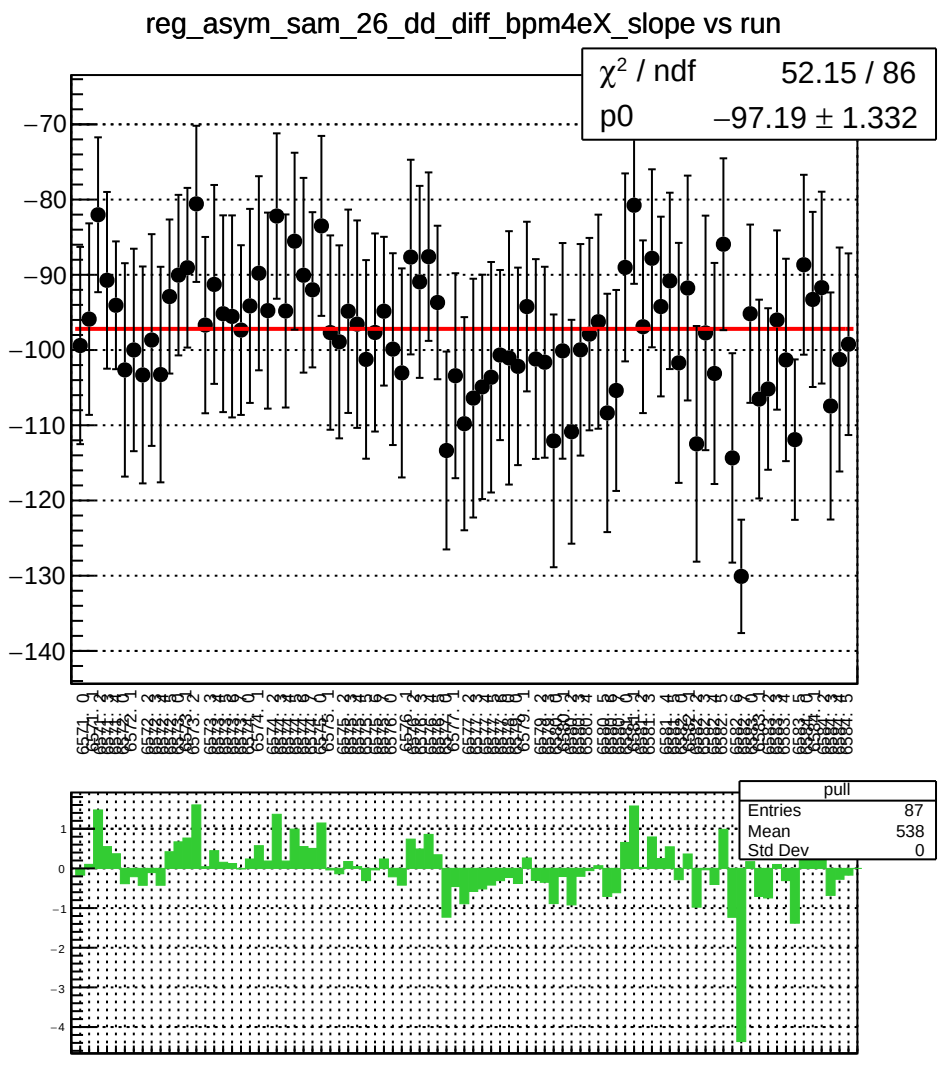

pull1D
Entries 87
Mean 0.02046
Std Dev 0.539

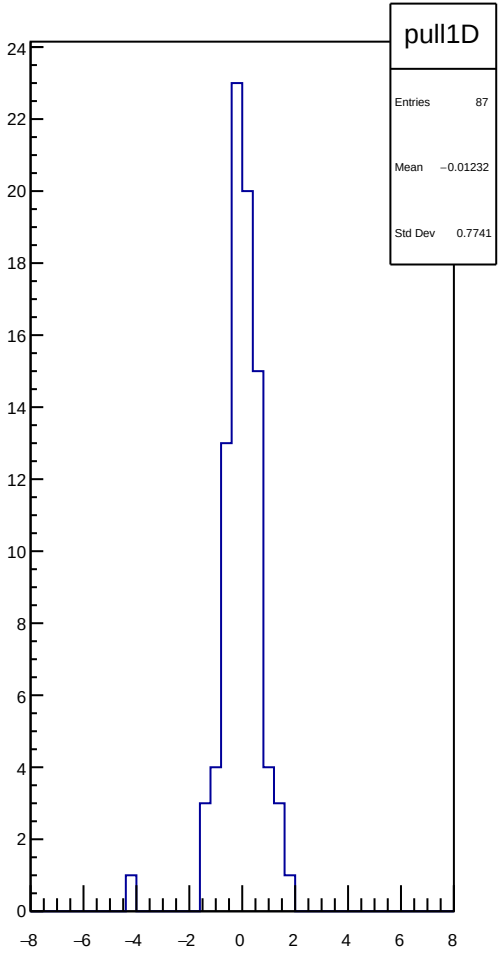

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 55.65 / 86
p0 −39.04 ± 1.295
pull
Entries 87
Mean 656
Std Dev 0

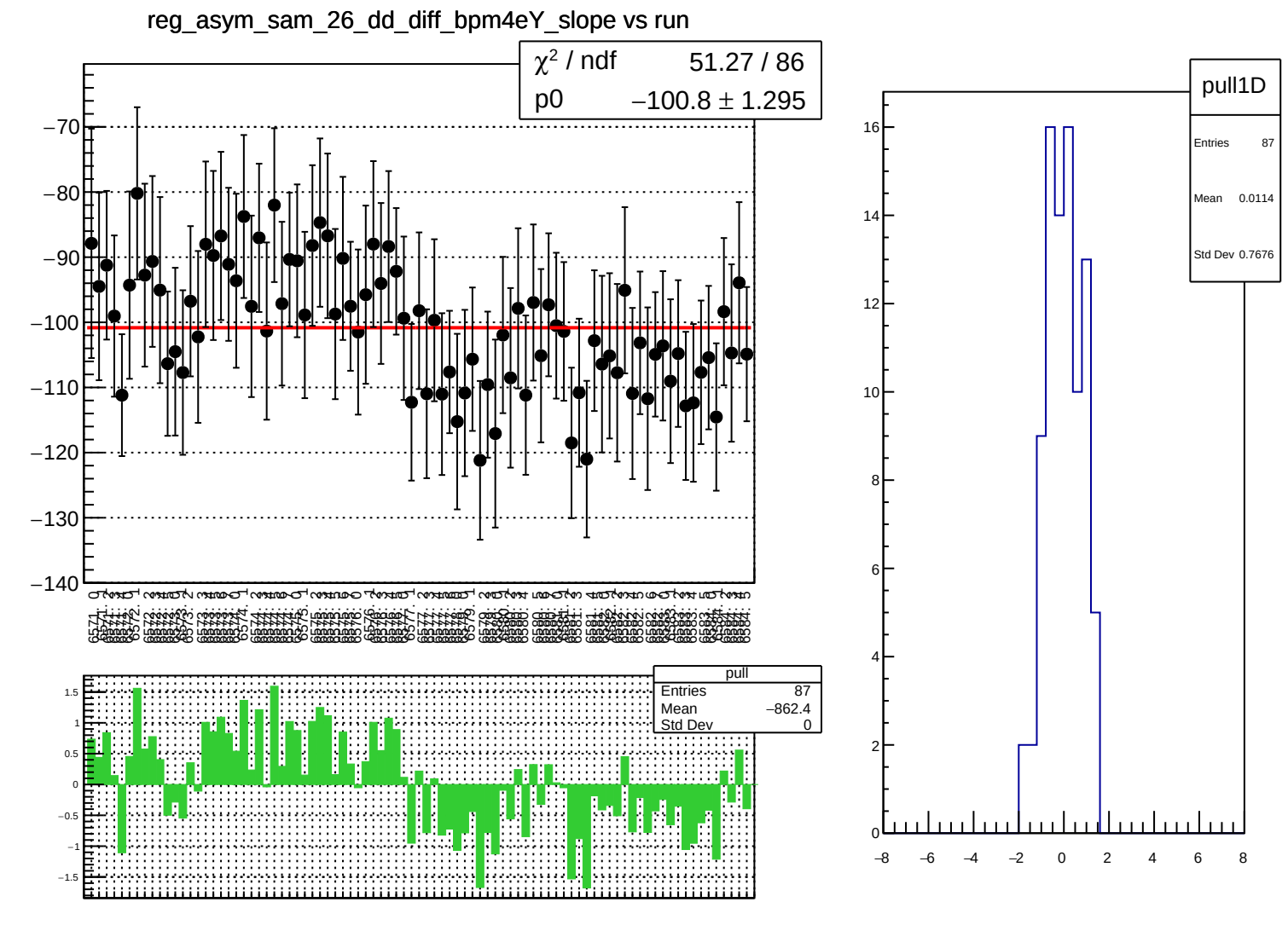

pull1D
Entries 87
Mean 0.01088
Std Dev 0.7997

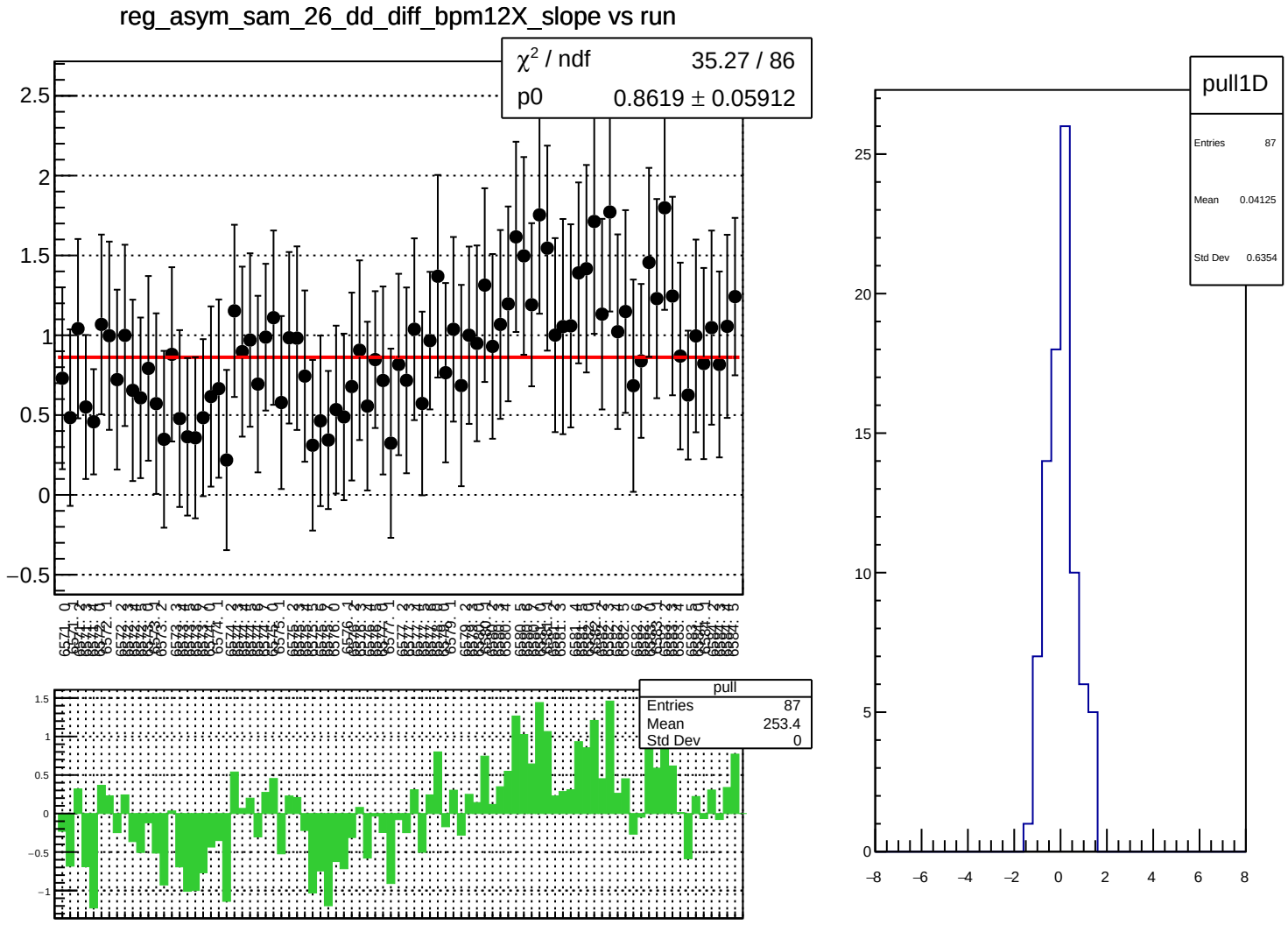

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.89 / 86
p0 −41.74 ± 1.076
pull
Entries 87
Mean −1426
Std Dev 0

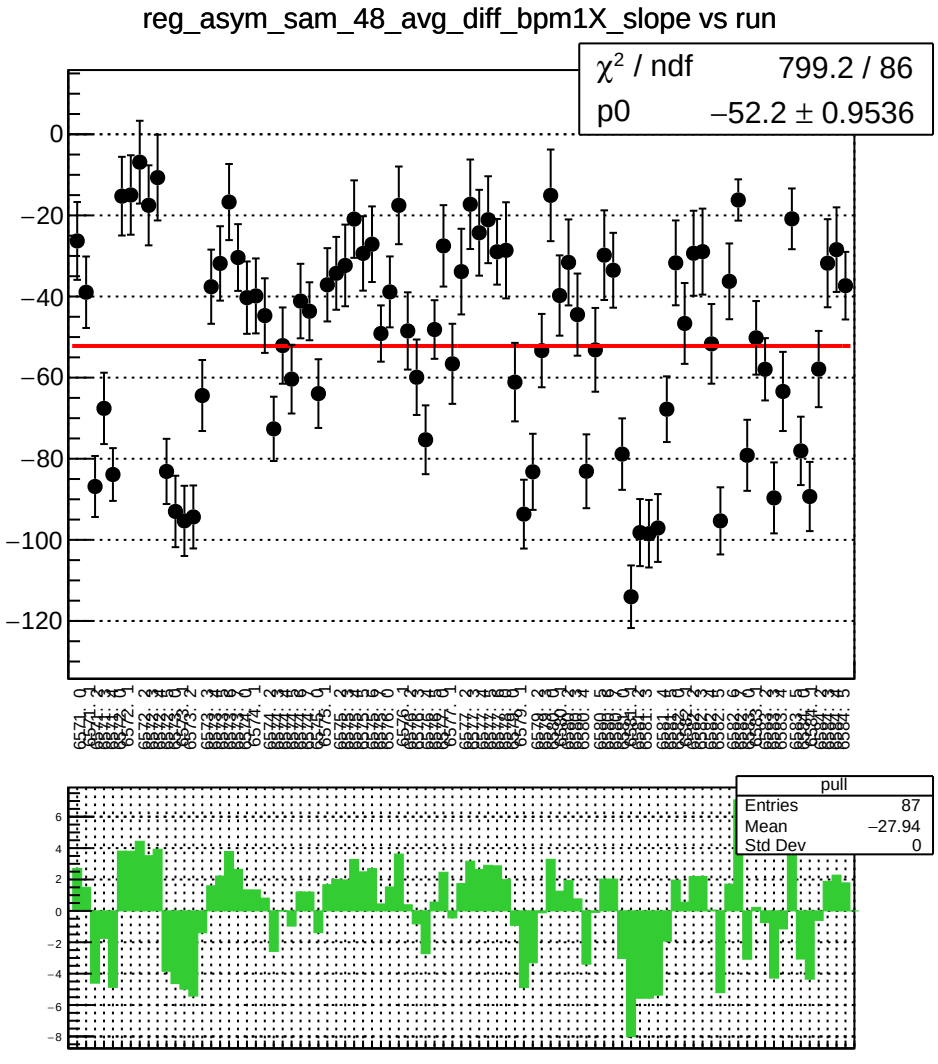

pull1D
Entries 87
Mean −0.005393
Std Dev 0.5959

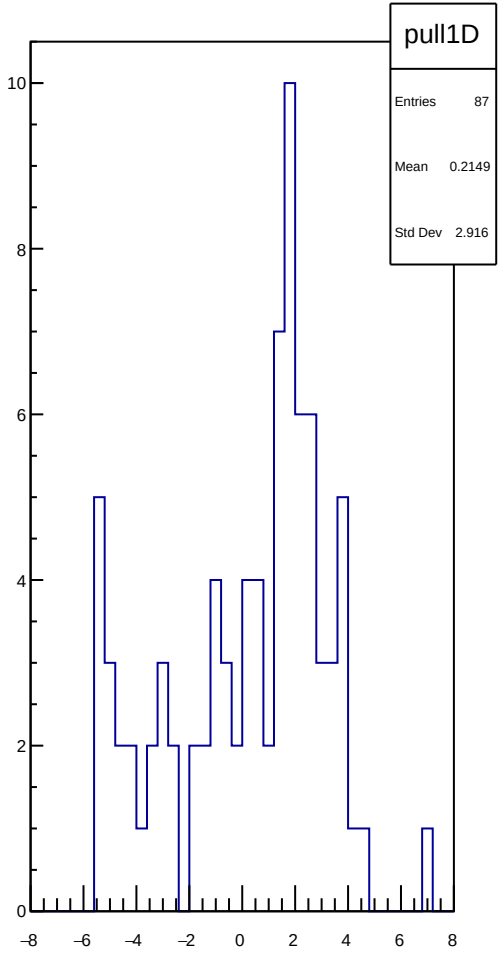

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.15 / 86
p0 −97.19 ± 1.332
pull
Entries 87
Mean 538
Std Dev 0

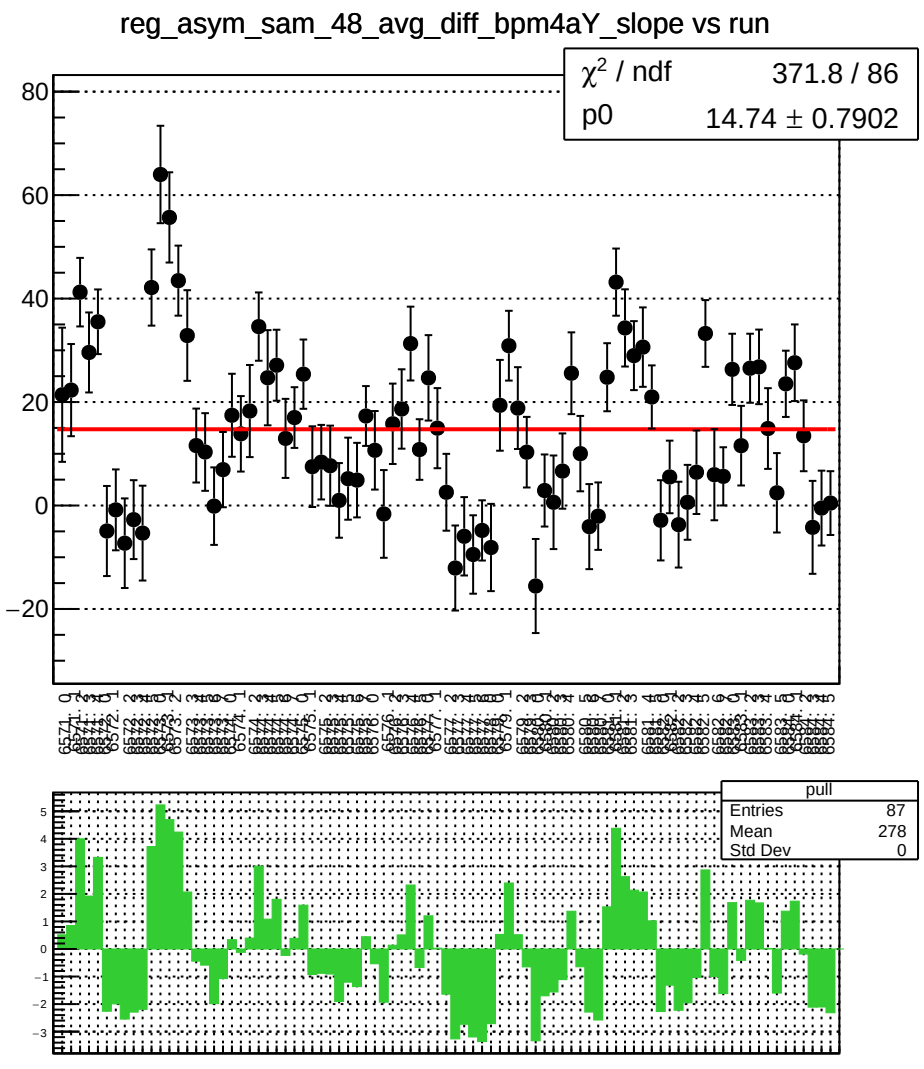

pull1D
Entries 87
Mean −0.01232
Std Dev 0.7741

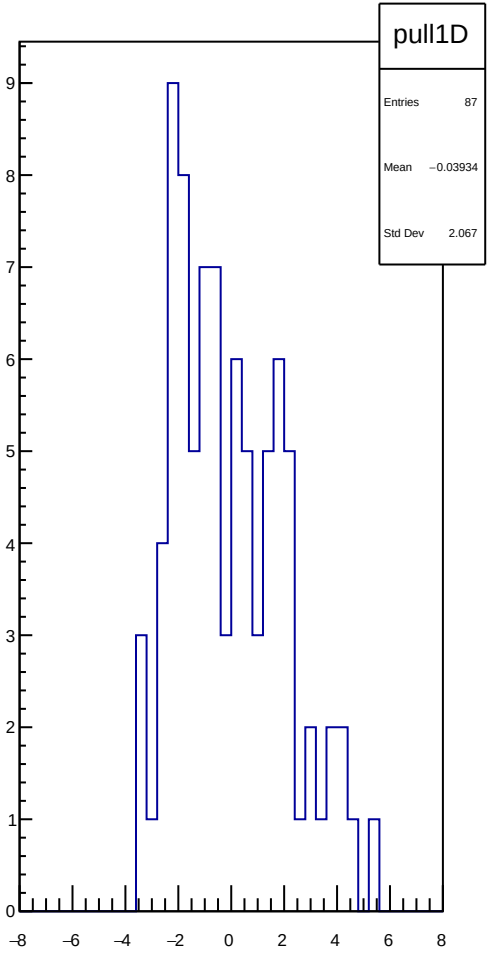

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.27 / 86
p0 −100.8 ± 1.295
pull
Entries 87
Mean −862.4
Std Dev 0
pull1D
Entries 87
Mean 0.0114
Std Dev 0.7676

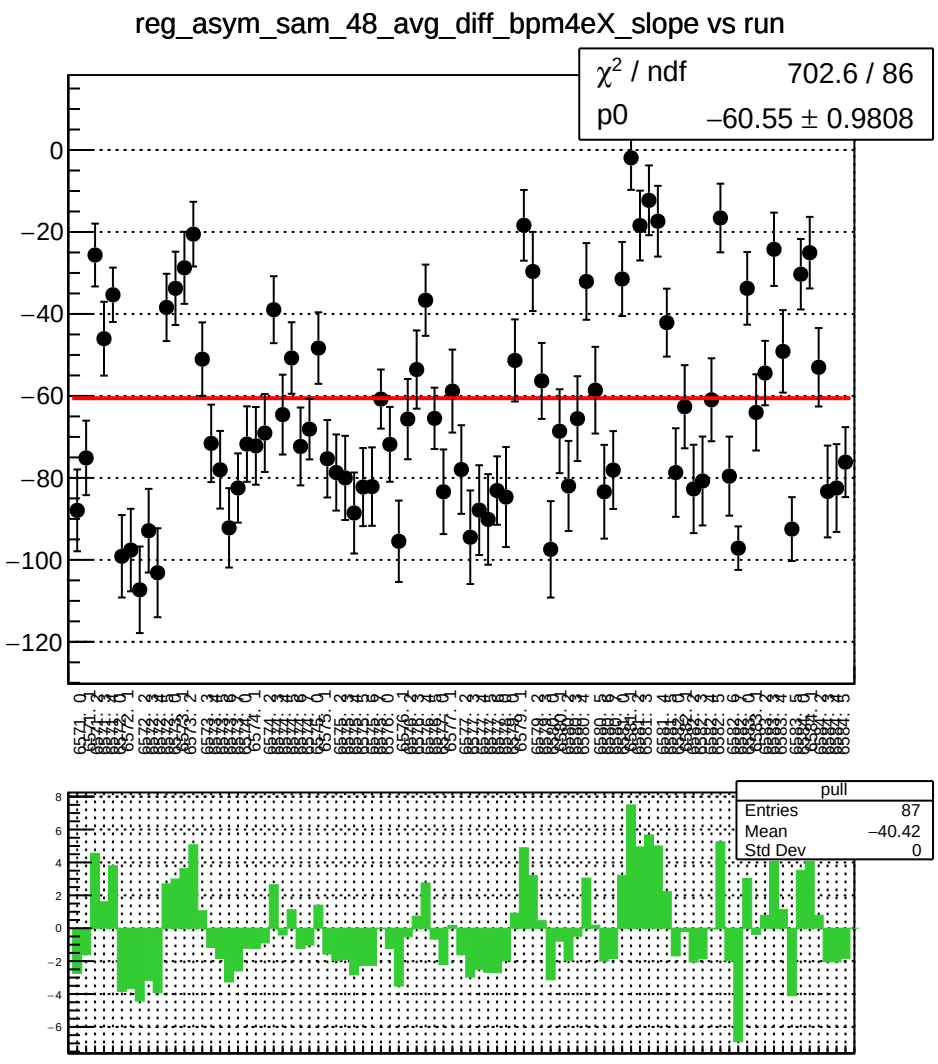

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 35.27 / 86
p0 0.8619 ± 0.05912
pull
Entries 87
Mean 253.4
Std Dev 0
pull1D
Entries 87
Mean 0.04125
Std Dev 0.6354

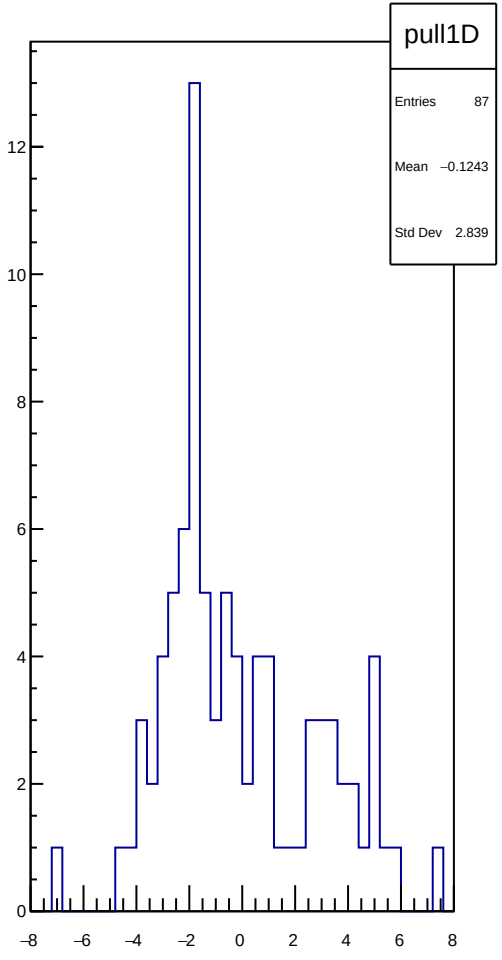

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 799.2 / 86
p0 −52.2 ± 0.9536
pull
Entries 87
Mean −27.94
Std Dev 0

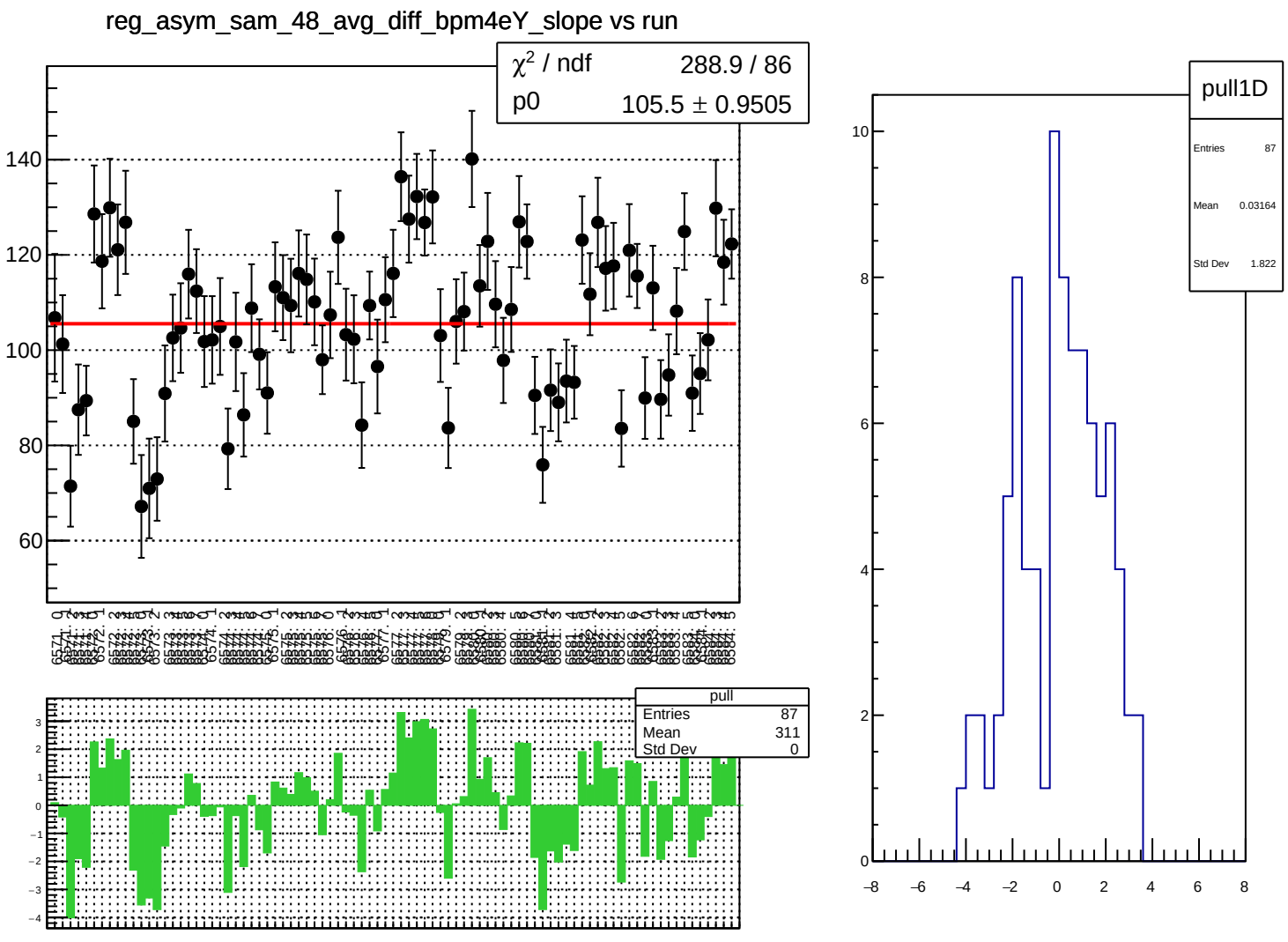

pull1D
Entries 87
Mean 0.2149
Std Dev 2.916

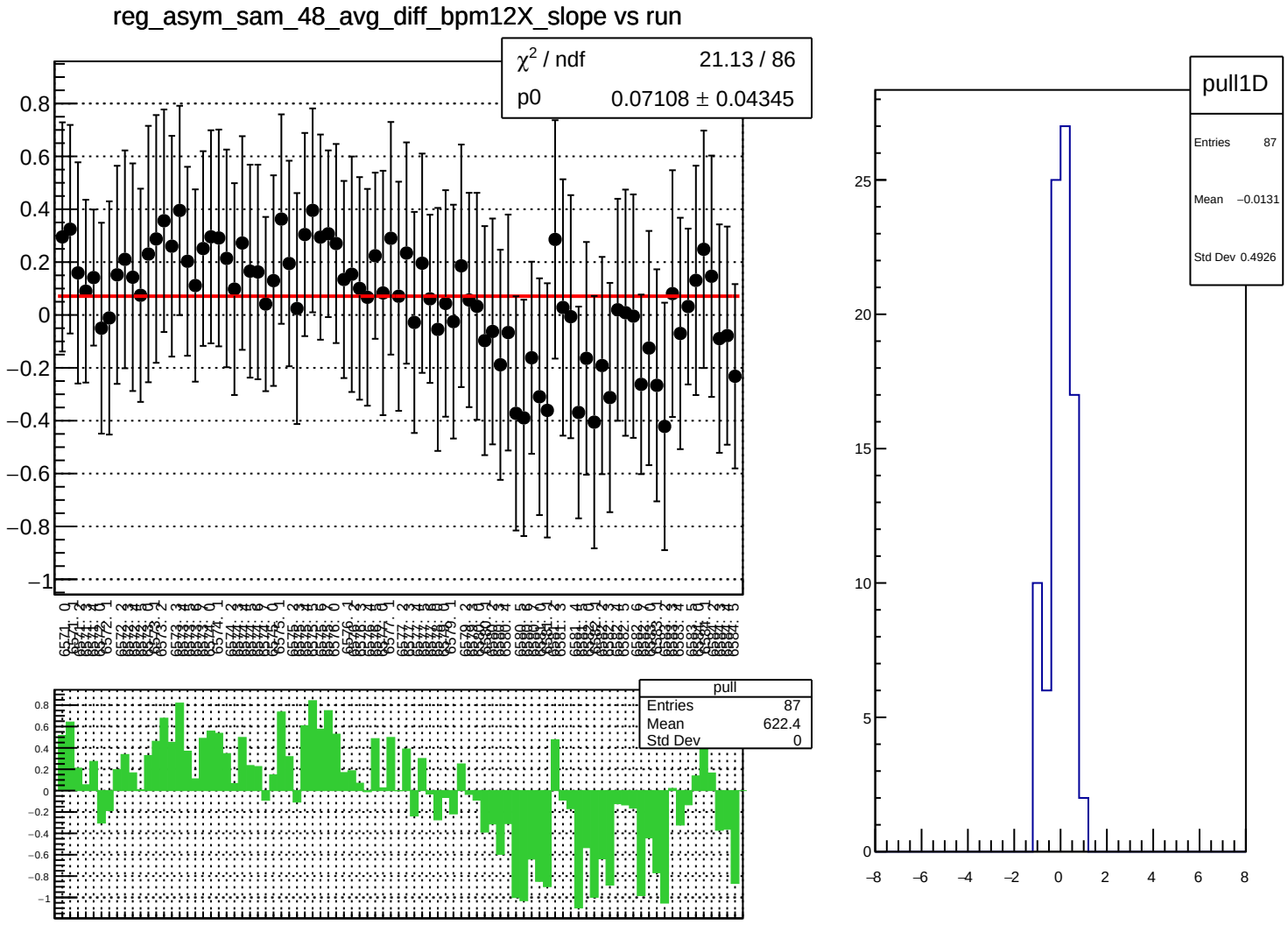

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 371.8 / 86
p0 14.74 ± 0.7902
pull
Entries 87
Mean 278
Std Dev 0

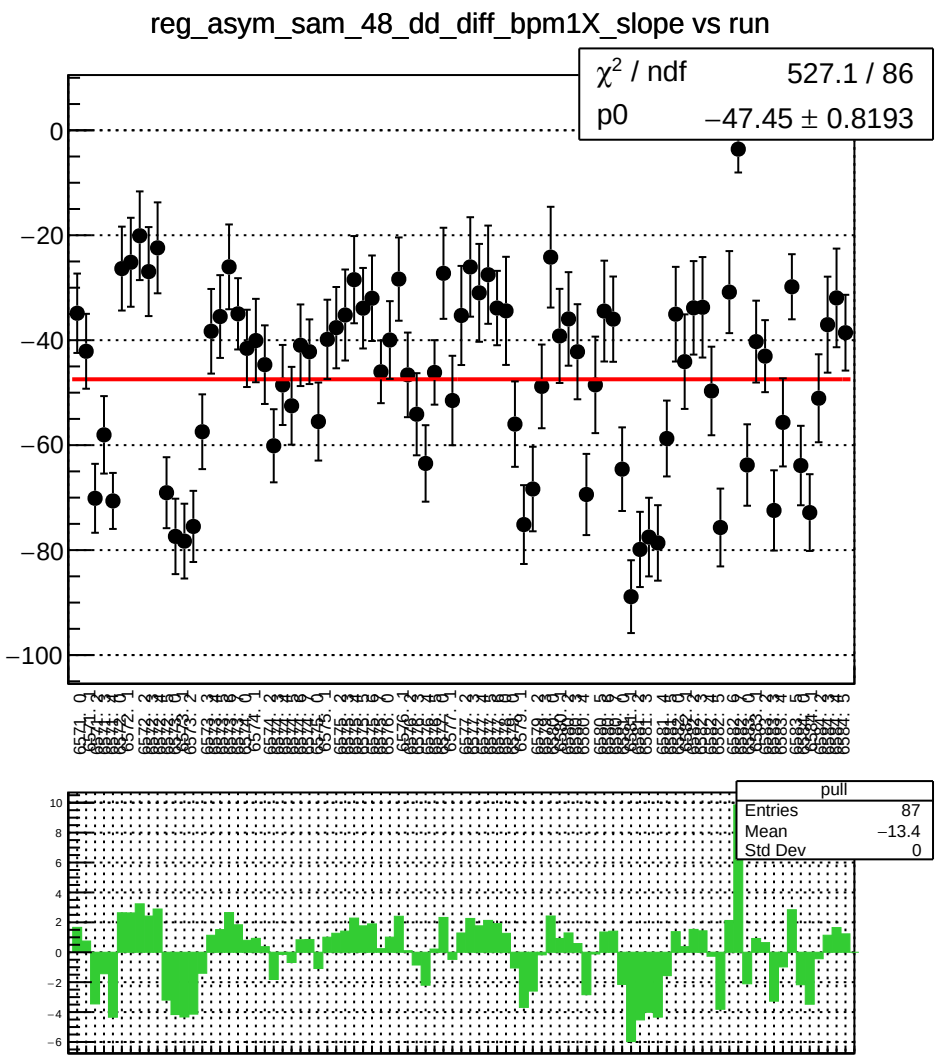

pull1D
Entries 87
Mean −0.03934
Std Dev 2.067

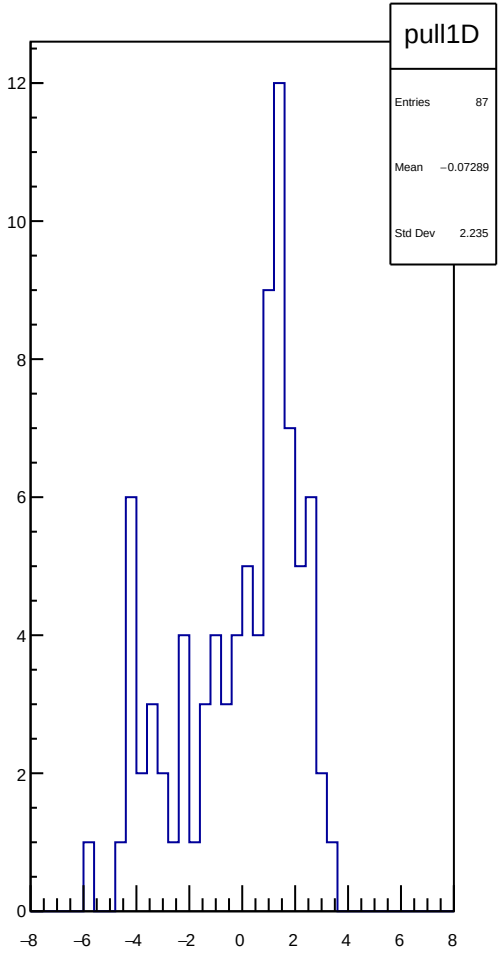

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 702.6 / 86
p0 −60.55 ± 0.9808
pull
Entries 87
Mean −40.42
Std Dev 0

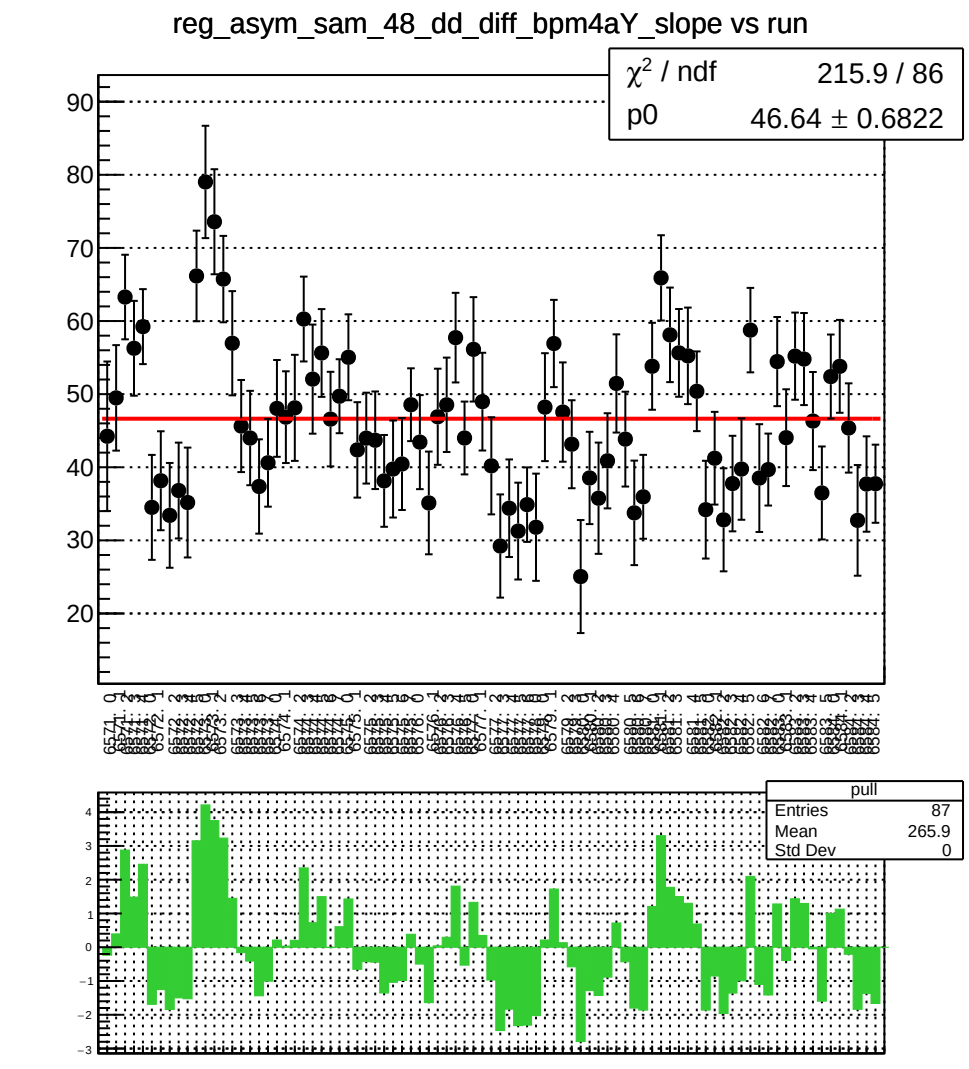

pull1D
Entries 87
Mean −0.1243
Std Dev 2.839

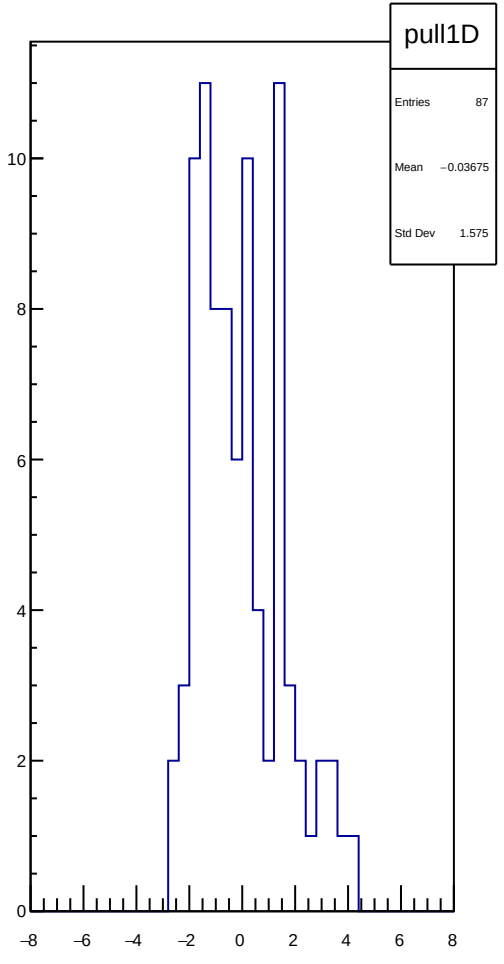

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 288.9 / 86
p0 105.5 ± 0.9505
140
120
100
80
60
pull
Entries 87
Mean 311
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 87
Mean 0.03164
Std Dev 1.822
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

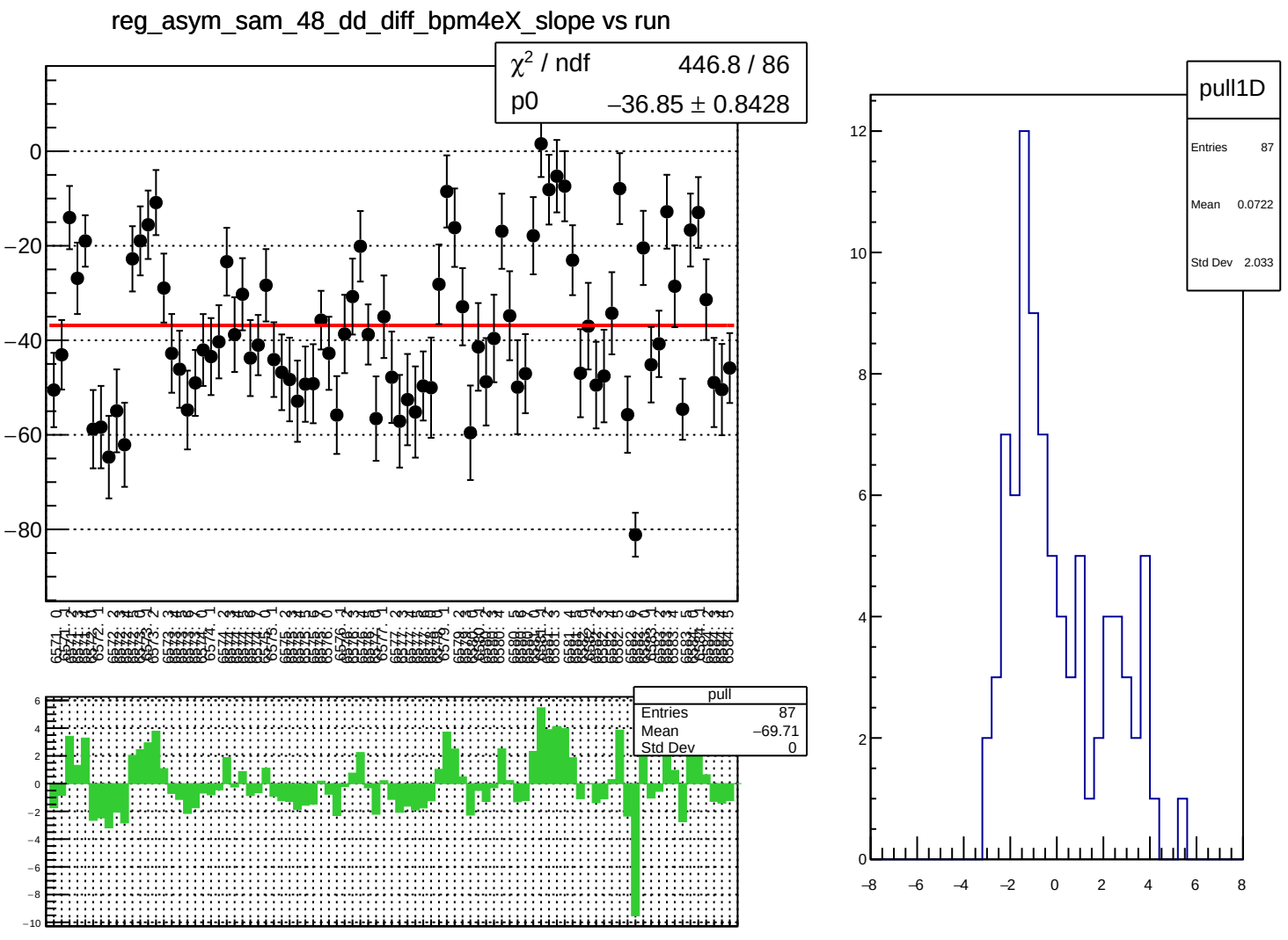

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 21.13 / 86
p0 0.07108 ± 0.04345
pull
Entries 87
Mean 622.4
Std Dev 0
pull1D
Entries 87
Mean −0.0131
Std Dev 0.4926

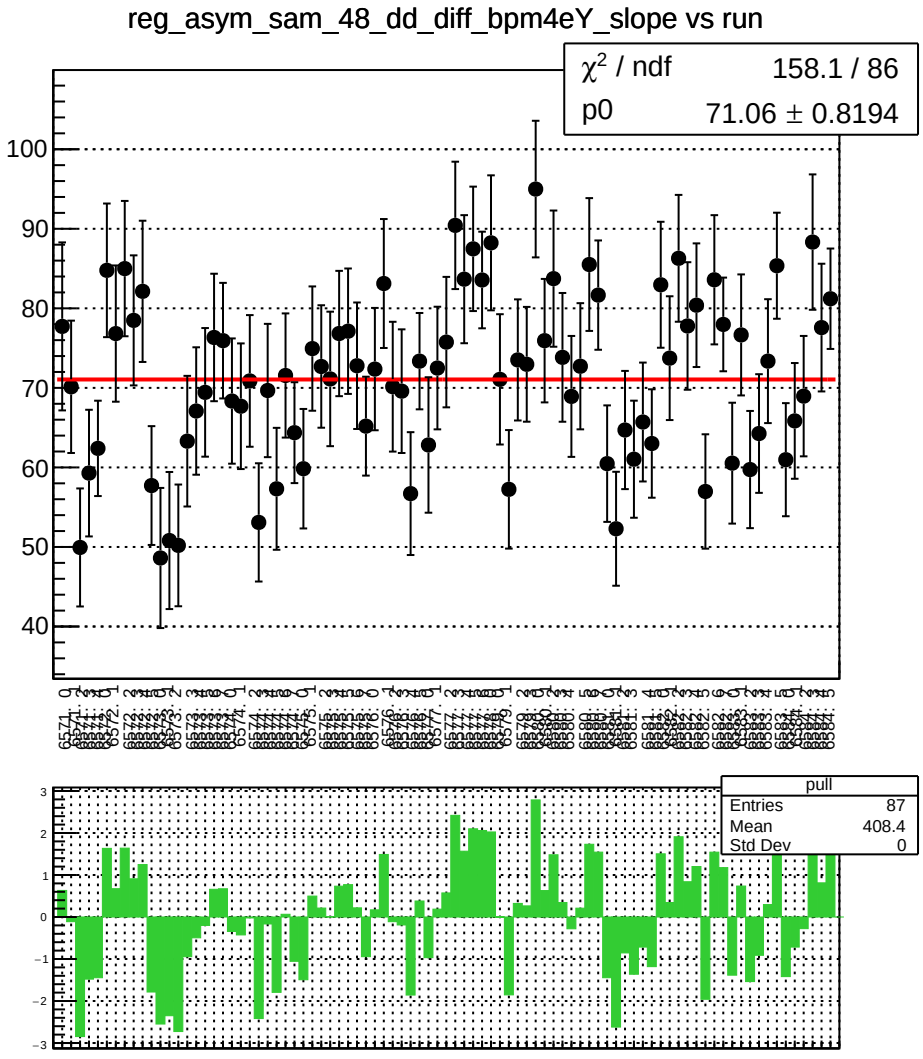

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 527.1 / 86
p0 −47.45 ± 0.8193
pull
Entries 87
Mean −13.4
Std Dev 0

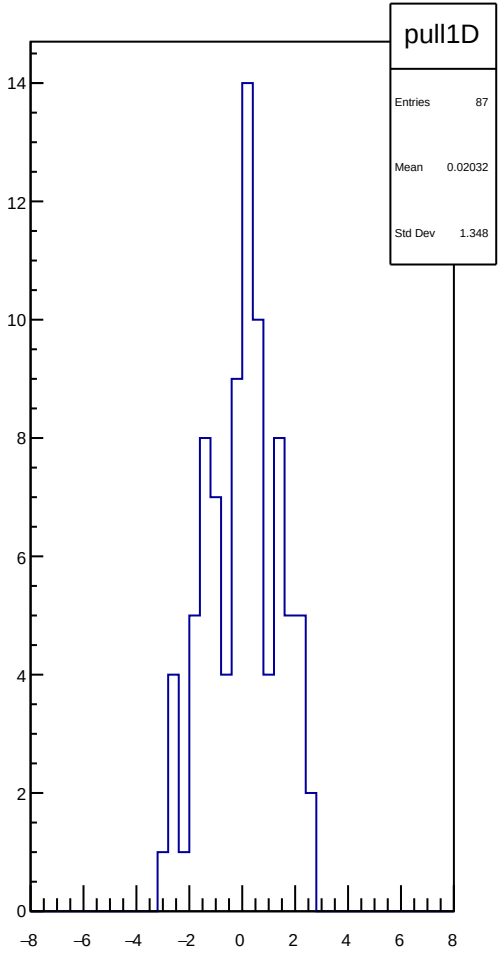

pull1D
Entries 87
Mean −0.07289
Std Dev 2.235

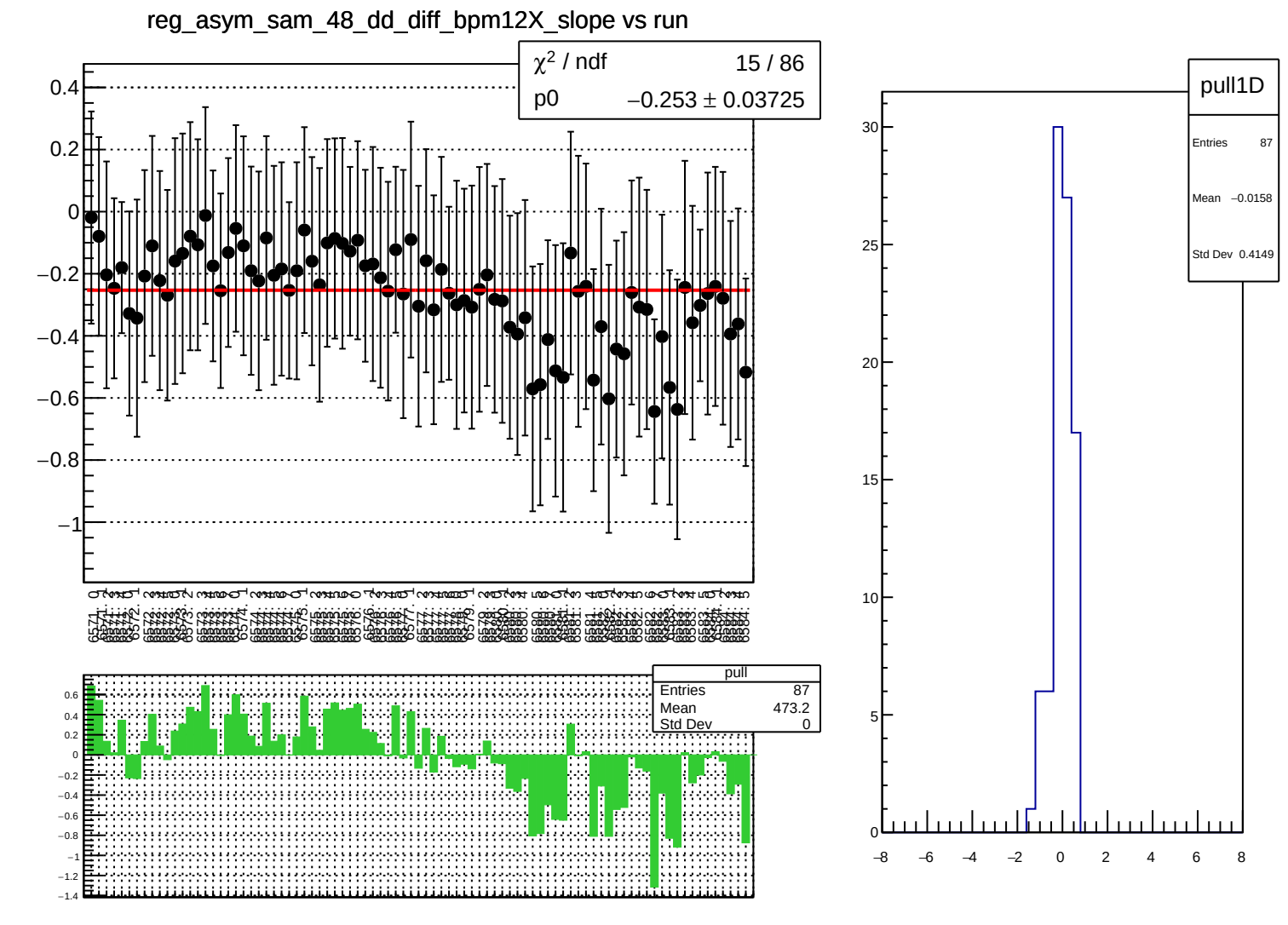

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 215.9 / 86
p0 46.64 ± 0.6822
pull
Entries 87
Mean 265.9
Std Dev 0

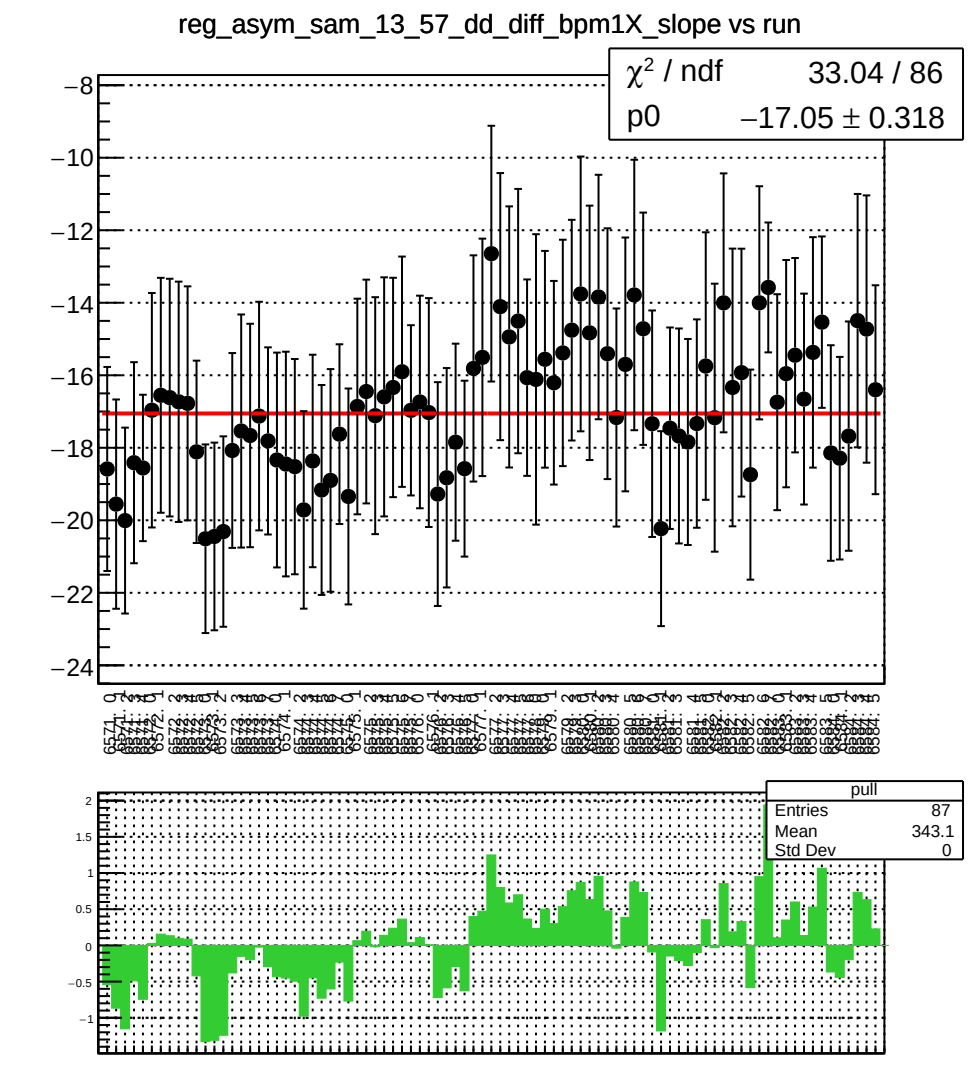

pull1D
Entries 87
Mean −0.03675
Std Dev 1.575

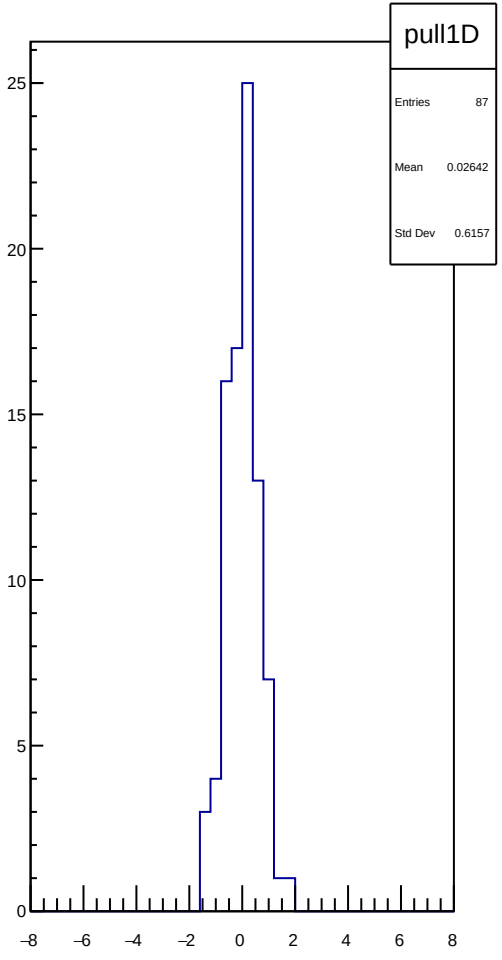

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 446.8 / 86
p0 −36.85 ± 0.8428
pull
Entries 87
Mean −69.71
Std Dev 0
pull1D
Entries 87
Mean 0.0722
Std Dev 2.033

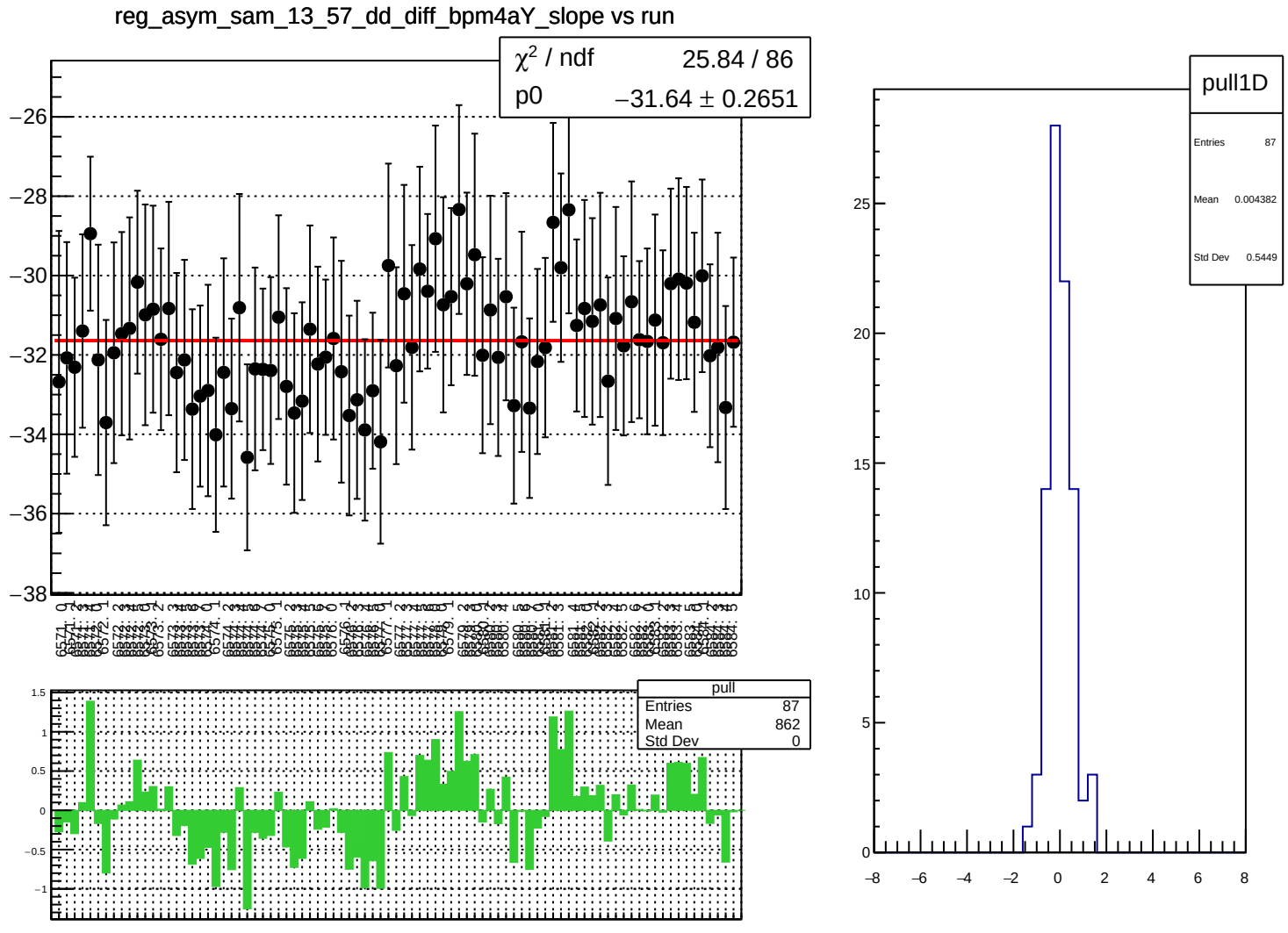

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 158.1 / 86
p0 71.06 ± 0.8194
pull
Entries 87
Mean 408.4
Std Dev 0

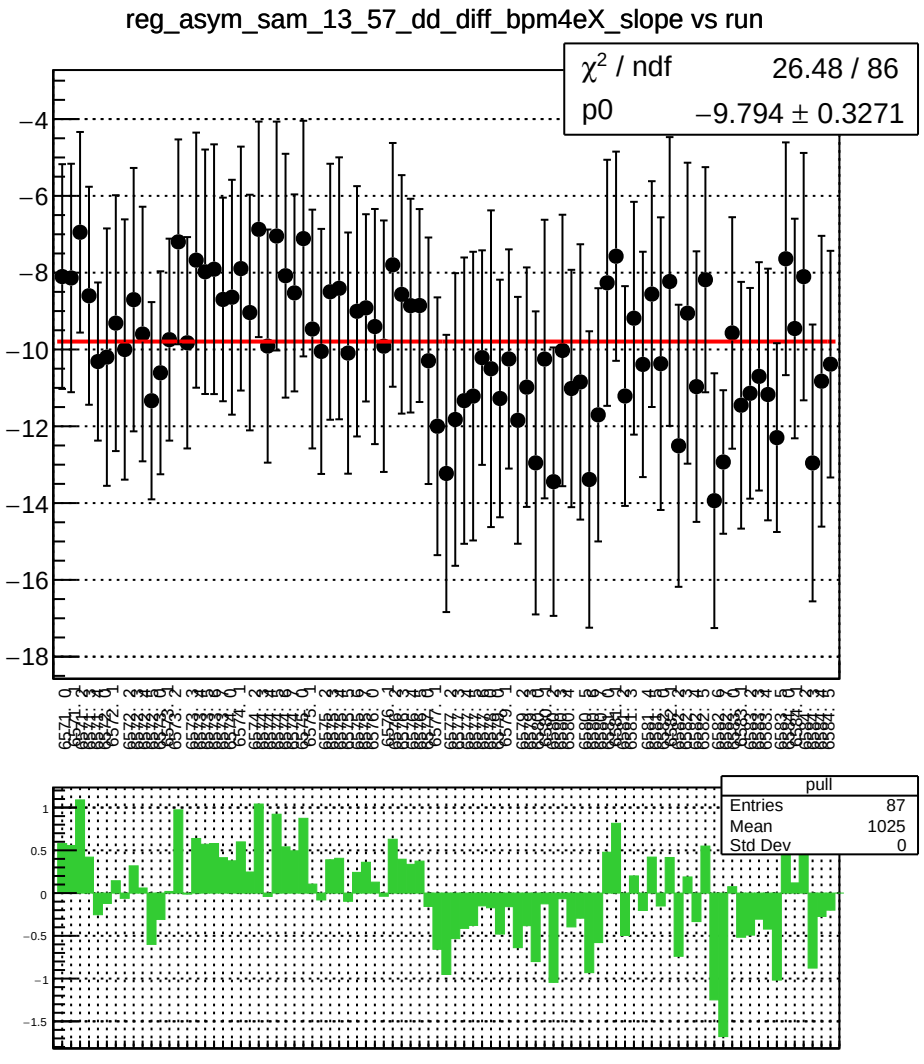

pull1D
Entries 87
Mean 0.02032
Std Dev 1.348

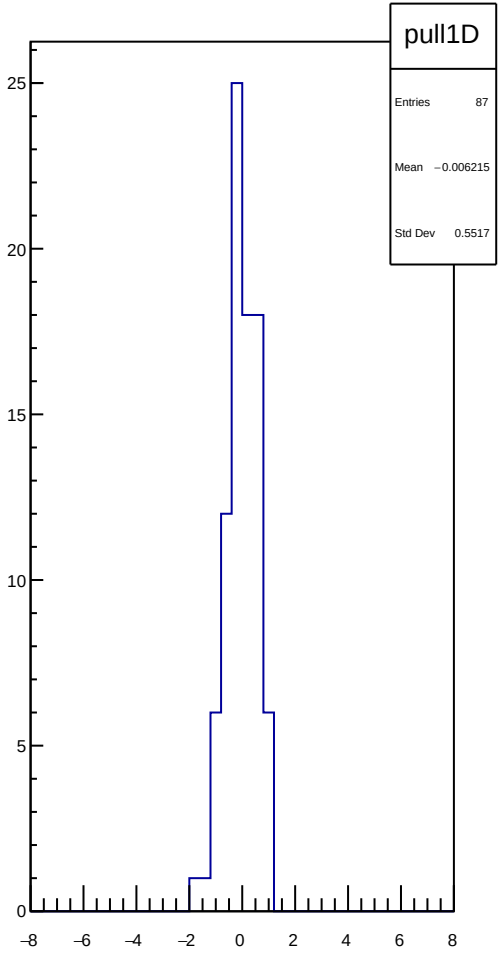

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15 / 86
p0 −0.253 ± 0.03725
pull
Entries 87
Mean 473.2
Std Dev 0
pull1D
Entries 87
Mean −0.0158
Std Dev 0.4149

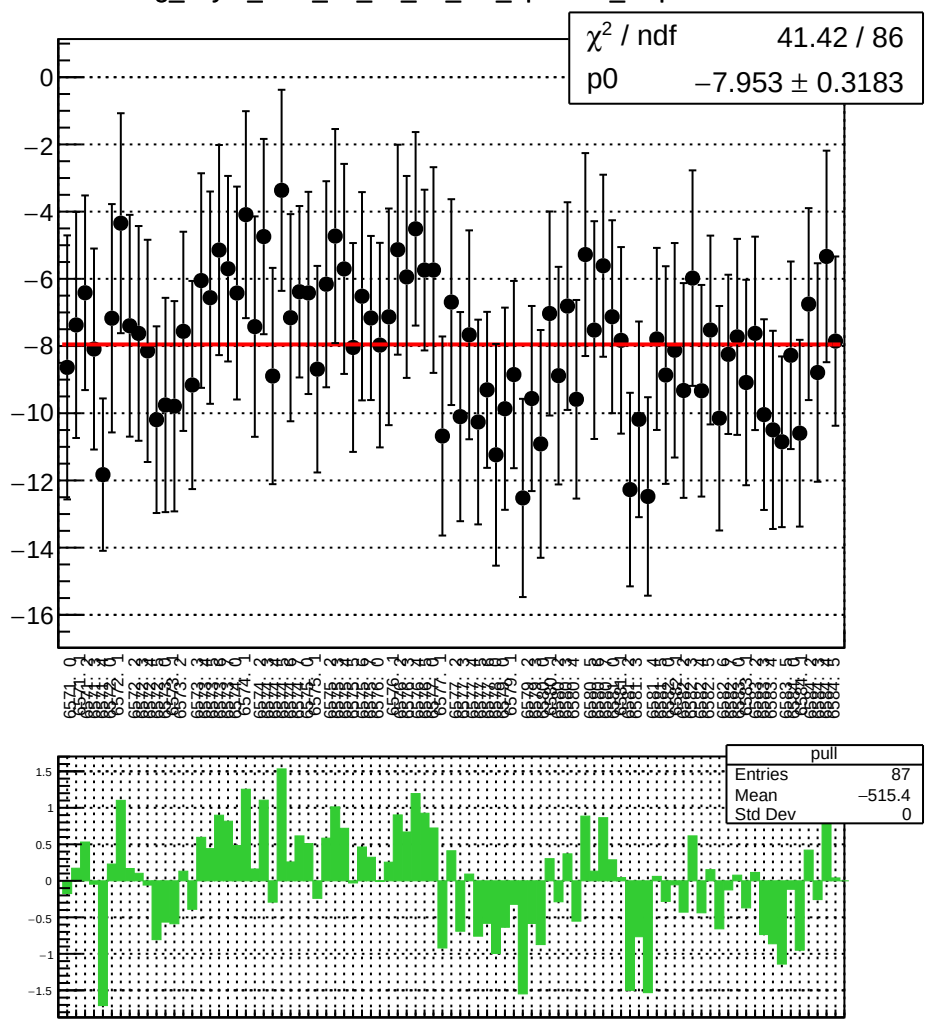

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 33.04 / 86
p0 −17.05 ± 0.318
pull
Entries 87
Mean 343.1
Std Dev 0

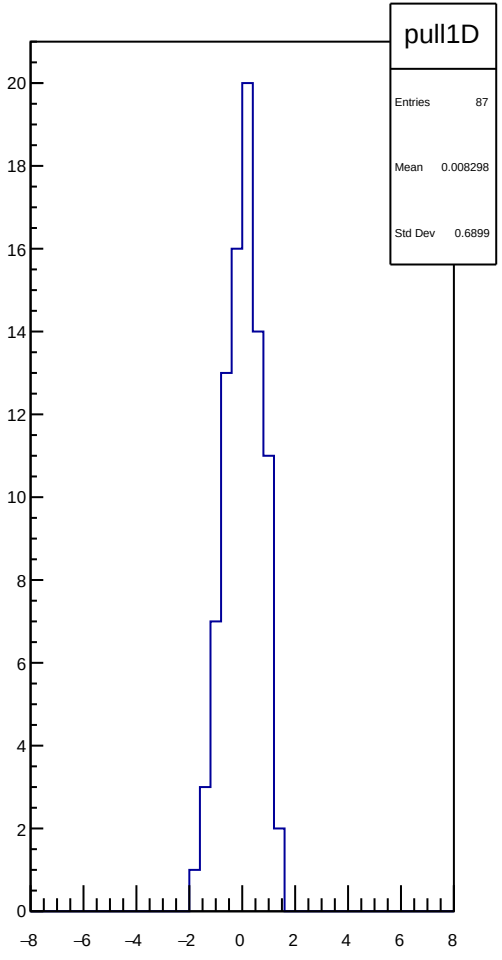

pull1D
Entries 87
Mean 0.02642
Std Dev 0.6157

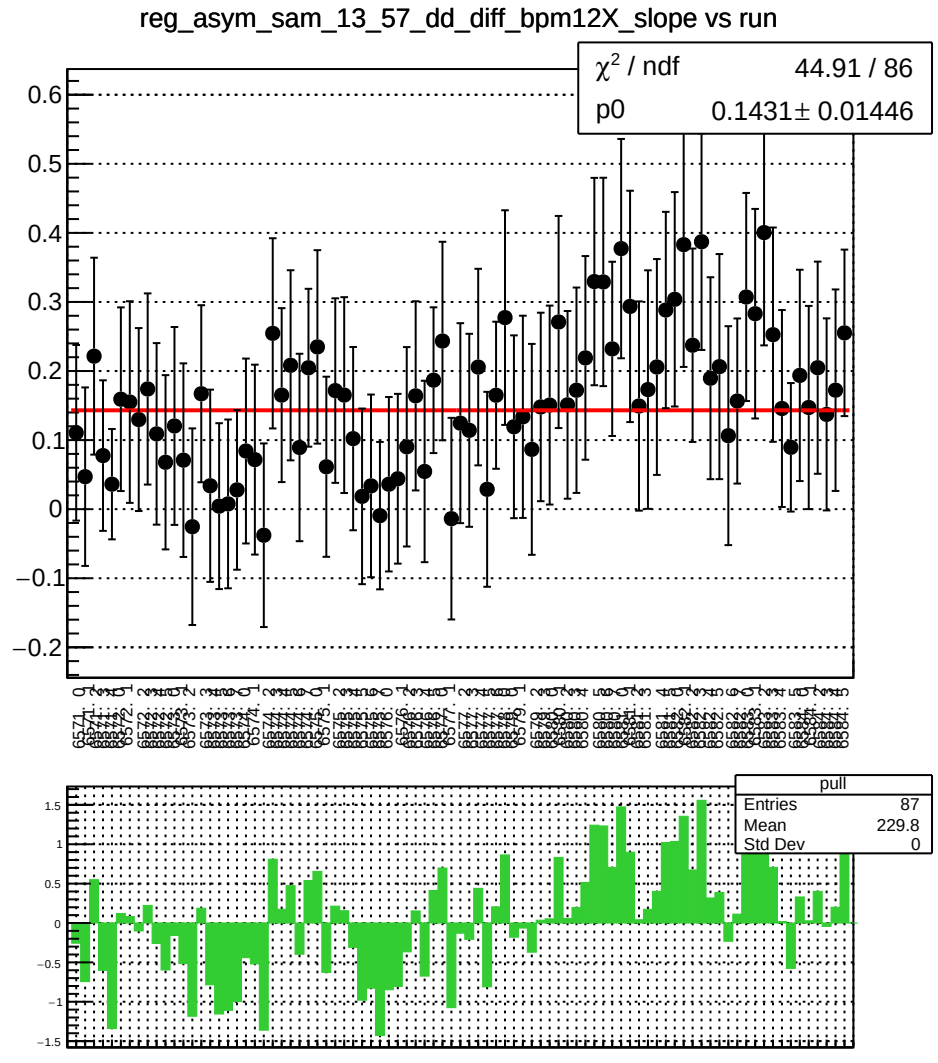

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.84 / 86
p0 −31.64 ± 0.2651
pull
Entries 87
Mean 862
Std Dev 0
pull1D
Entries 87
Mean 0.004382
Std Dev 0.5449

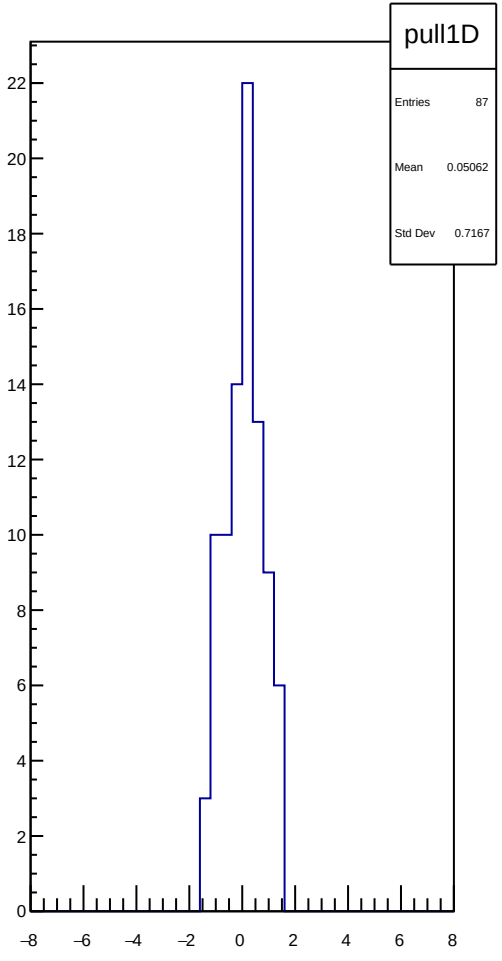

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.48 / 86
p0 −9.794 ± 0.3271
pull
Entries 87
Mean 1025
Std Dev 0

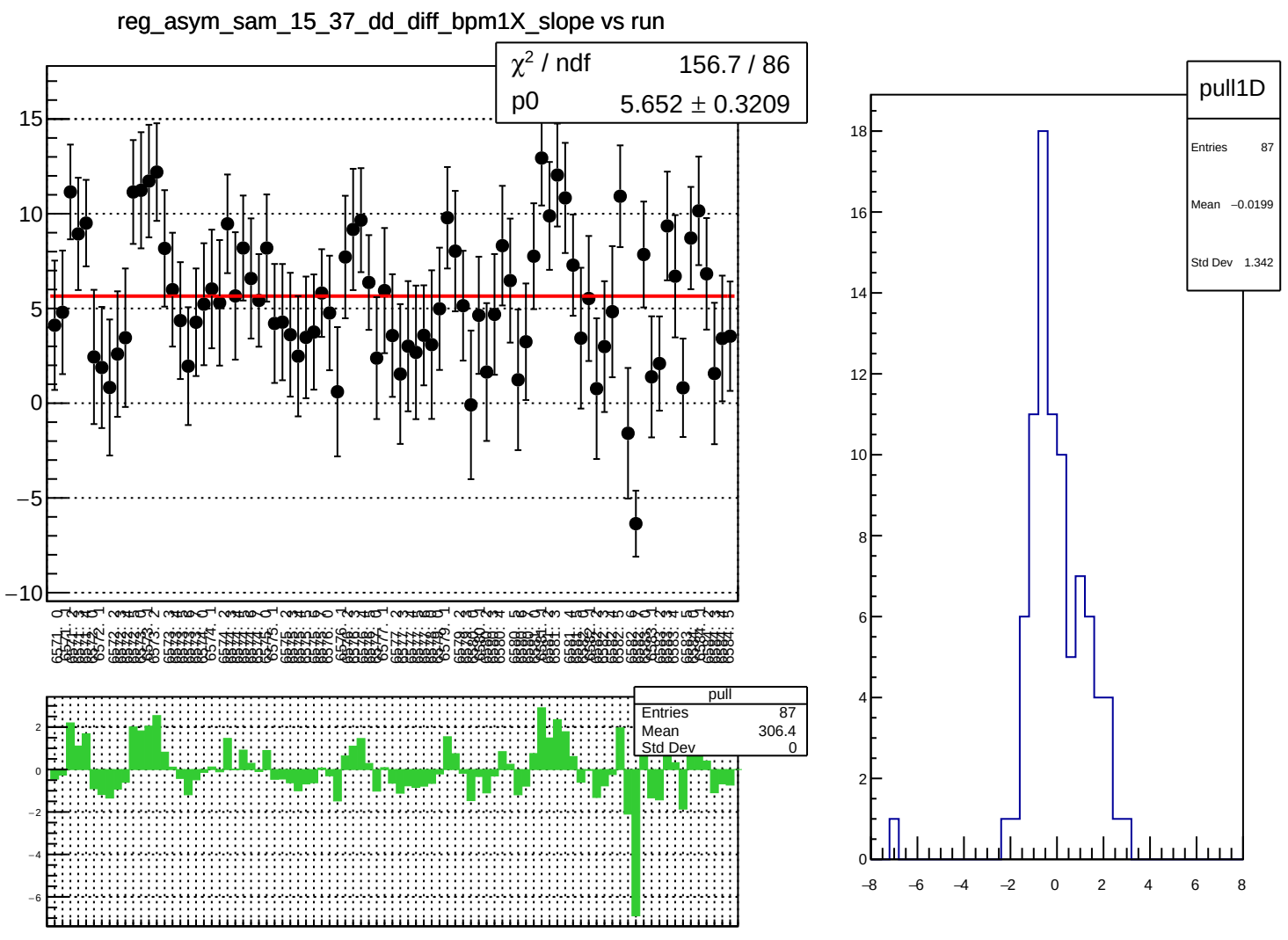

pull1D
Entries 87
Mean −0.006215
Std Dev 0.5517

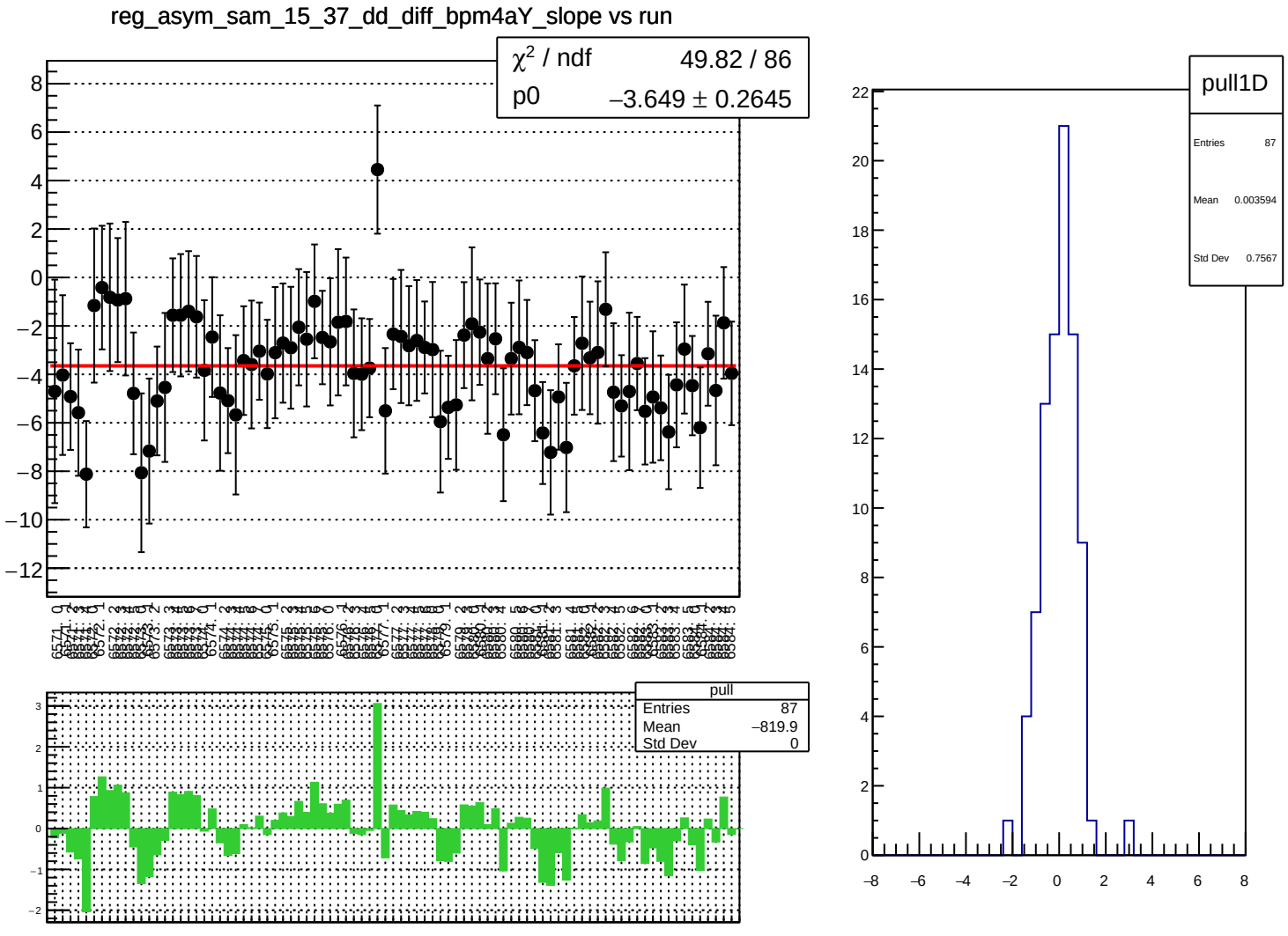

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.42 / 86
p0 −7.953 ± 0.3183
pull
Entries 87
Mean −515.4
Std Dev 0

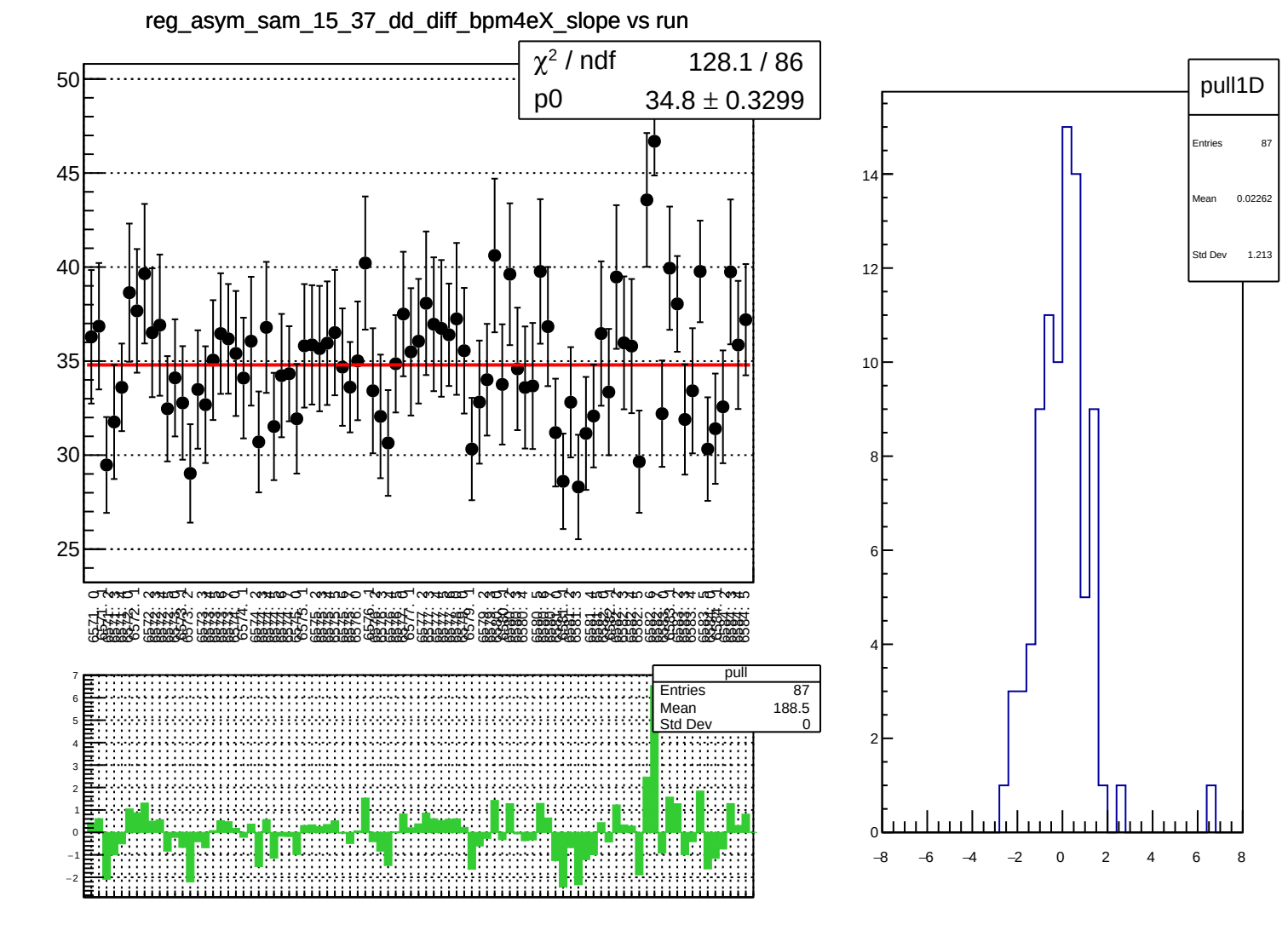

pull1D
Entries 87
Mean 0.008298
Std Dev 0.6899

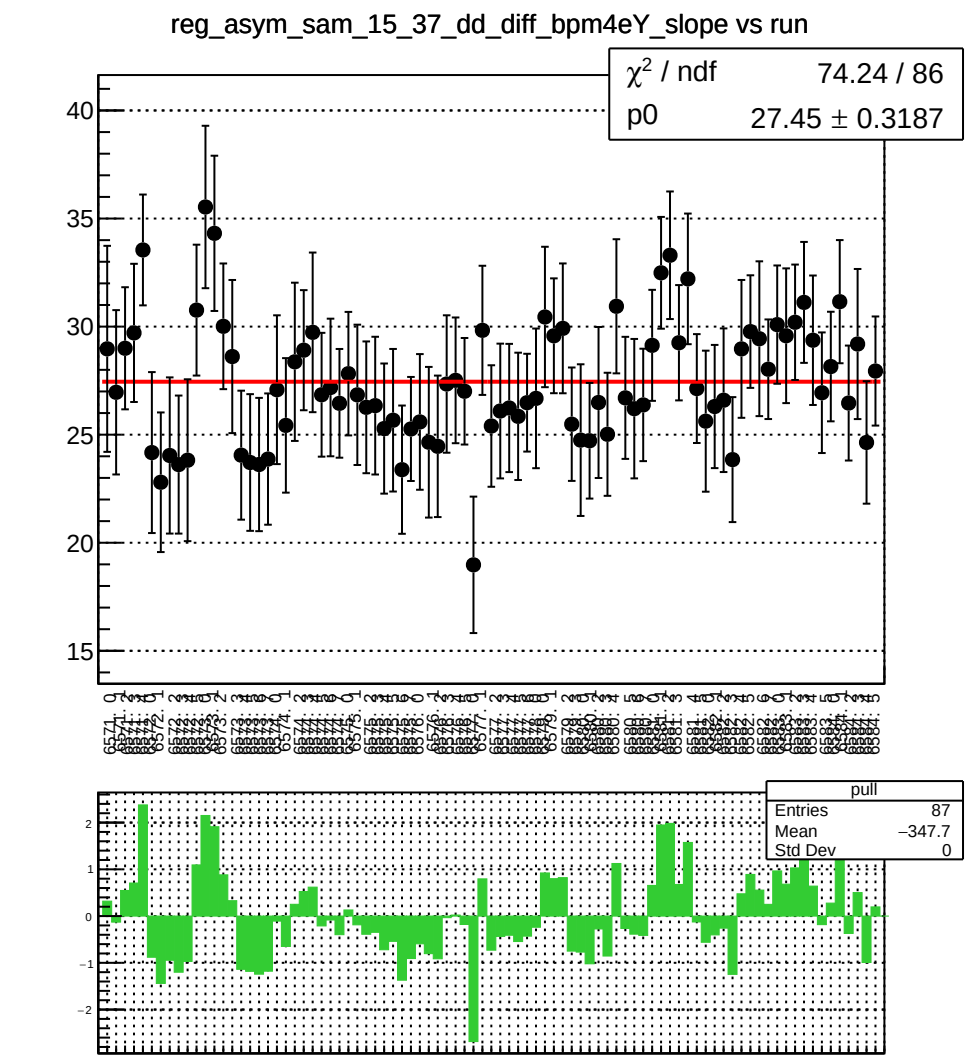

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 44.91 / 86
p0 0.1431± 0.01446
pull
Entries 87
Mean 229.8
Std Dev 0

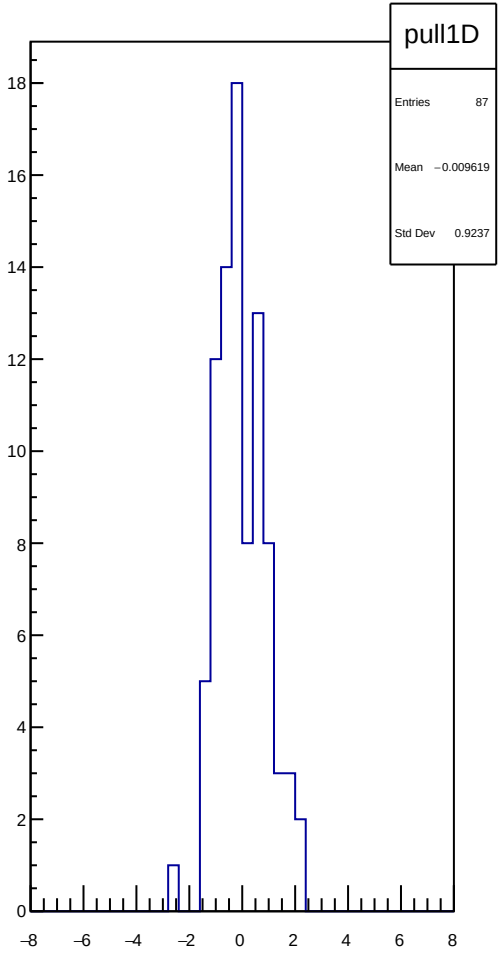

pull1D
Entries 87
Mean 0.05062
Std Dev 0.7167

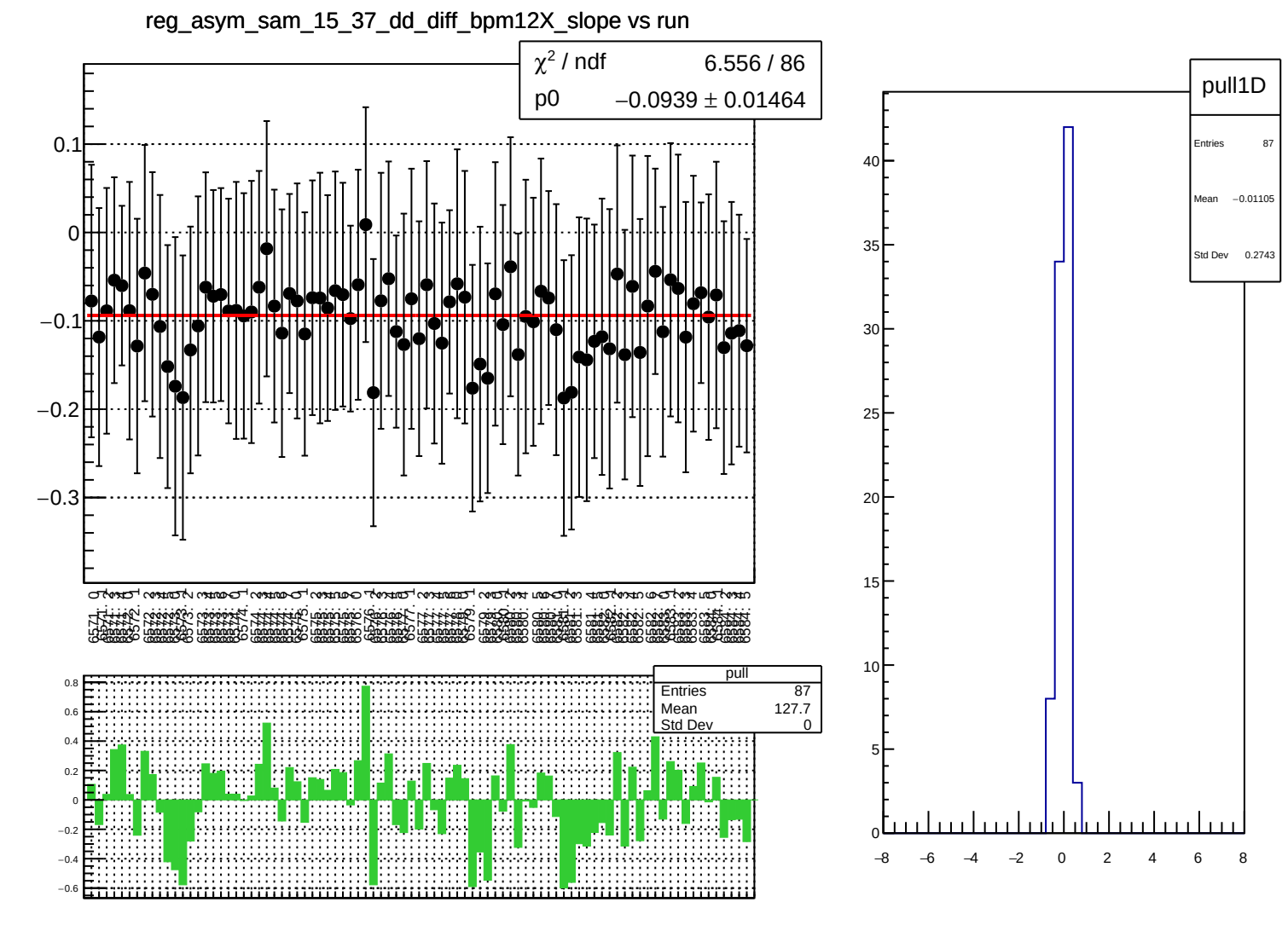

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 156.7 / 86
p0 5.652 ± 0.3209
pull
Entries 87
Mean 306.4
Std Dev 0
pull1D
Entries 87
Mean −0.0199
Std Dev 1.342

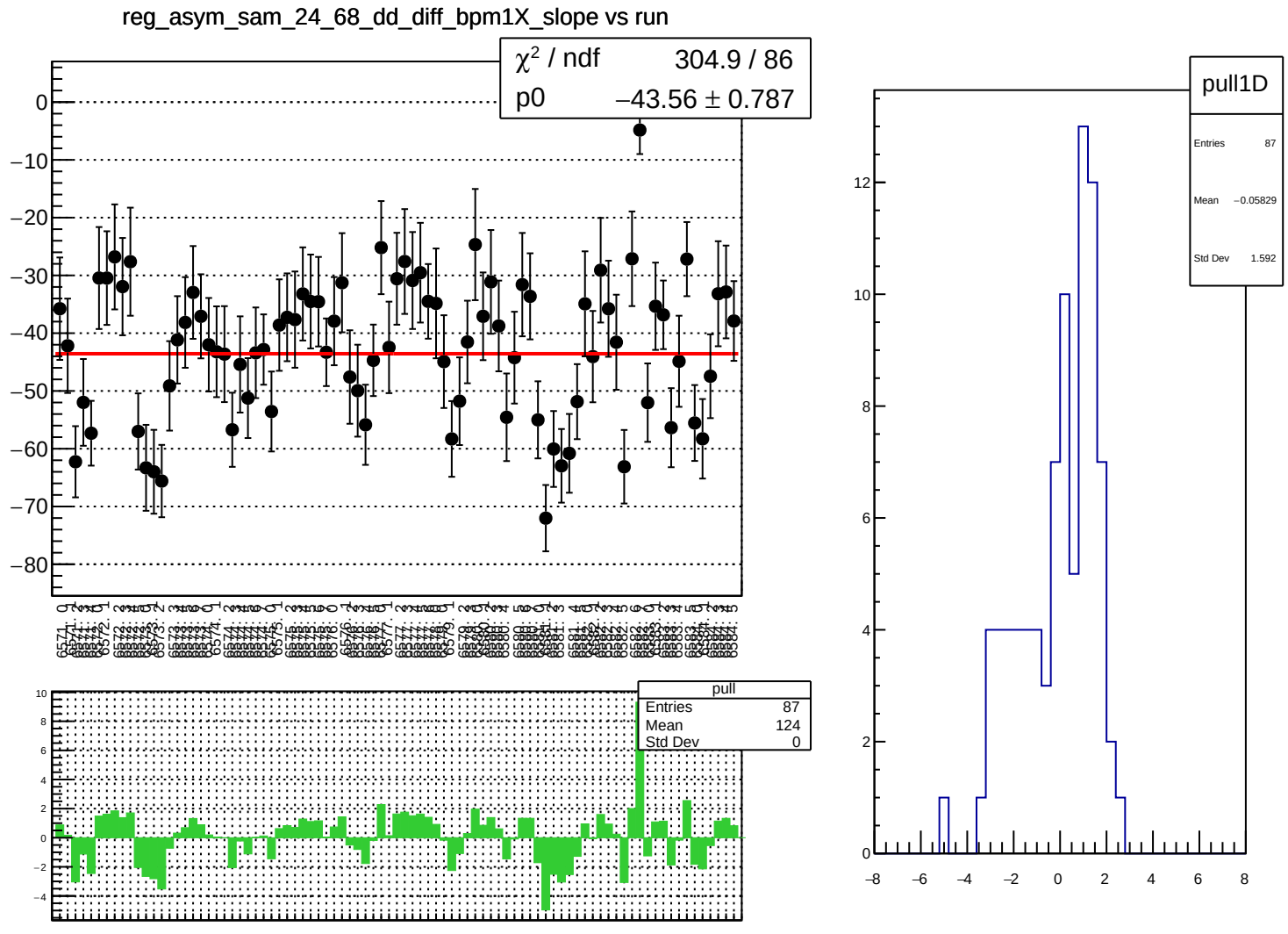

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.82 / 86
p0 −3.649 ± 0.2645
pull
Entries 87
Mean −819.9
Std Dev 0
pull1D
Entries 87
Mean 0.003594
Std Dev 0.7567

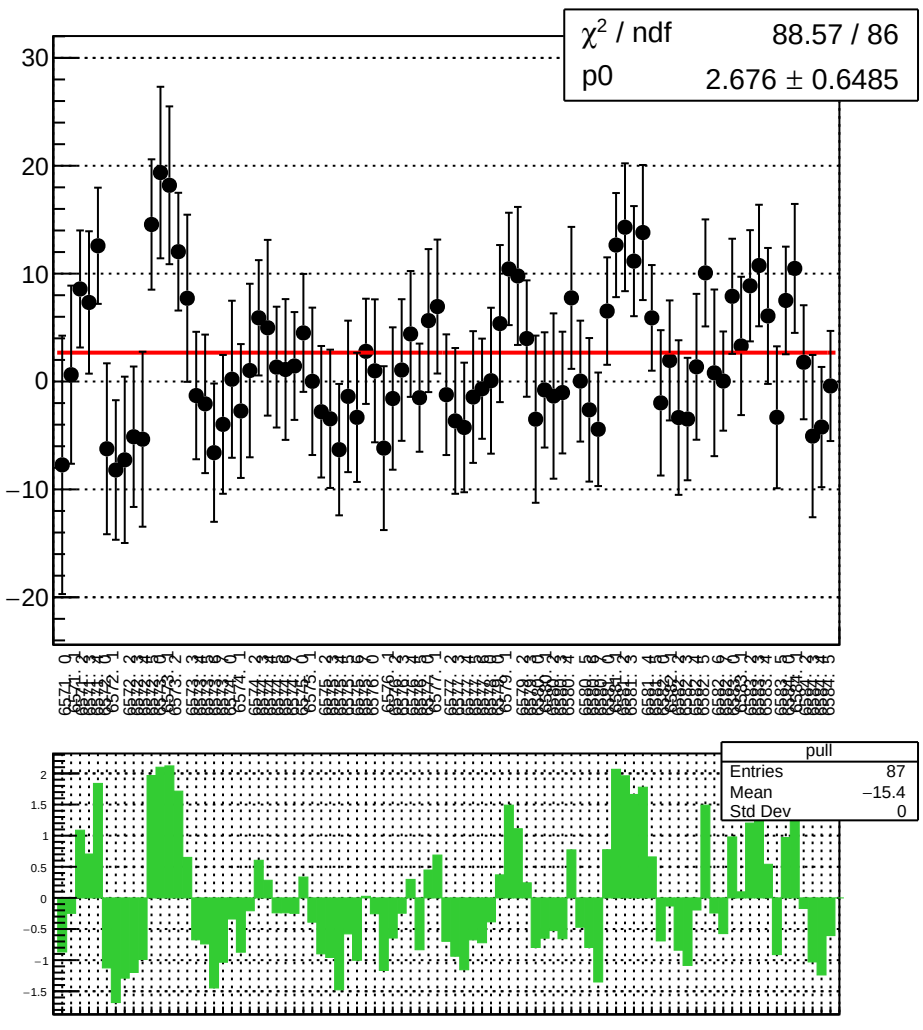

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 128.1 / 86
p0 34.8 ± 0.3299
pull
Entries 87
Mean 188.5
Std Dev 0
pull1D
Entries 87
Mean 0.02262
Std Dev 1.213

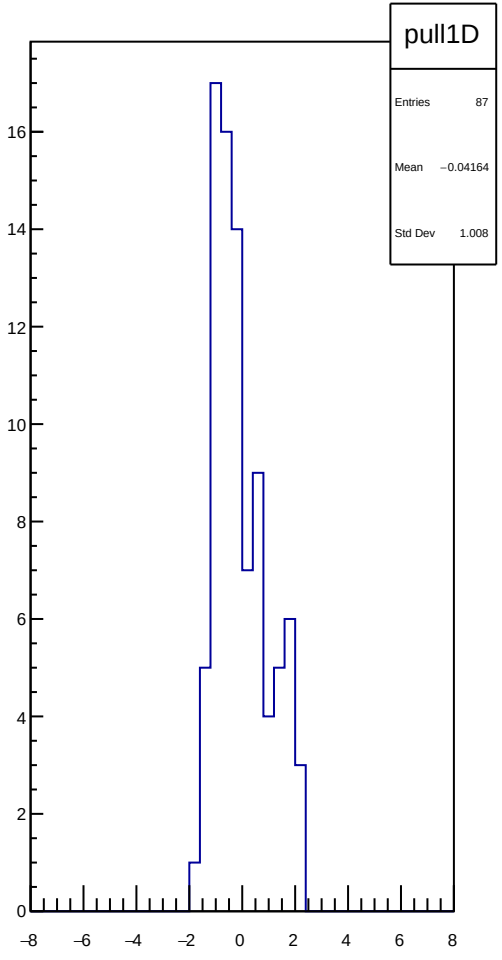

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.24 / 86
p0 27.45 ± 0.3187
pull
Entries 87
Mean −347.7
Std Dev 0

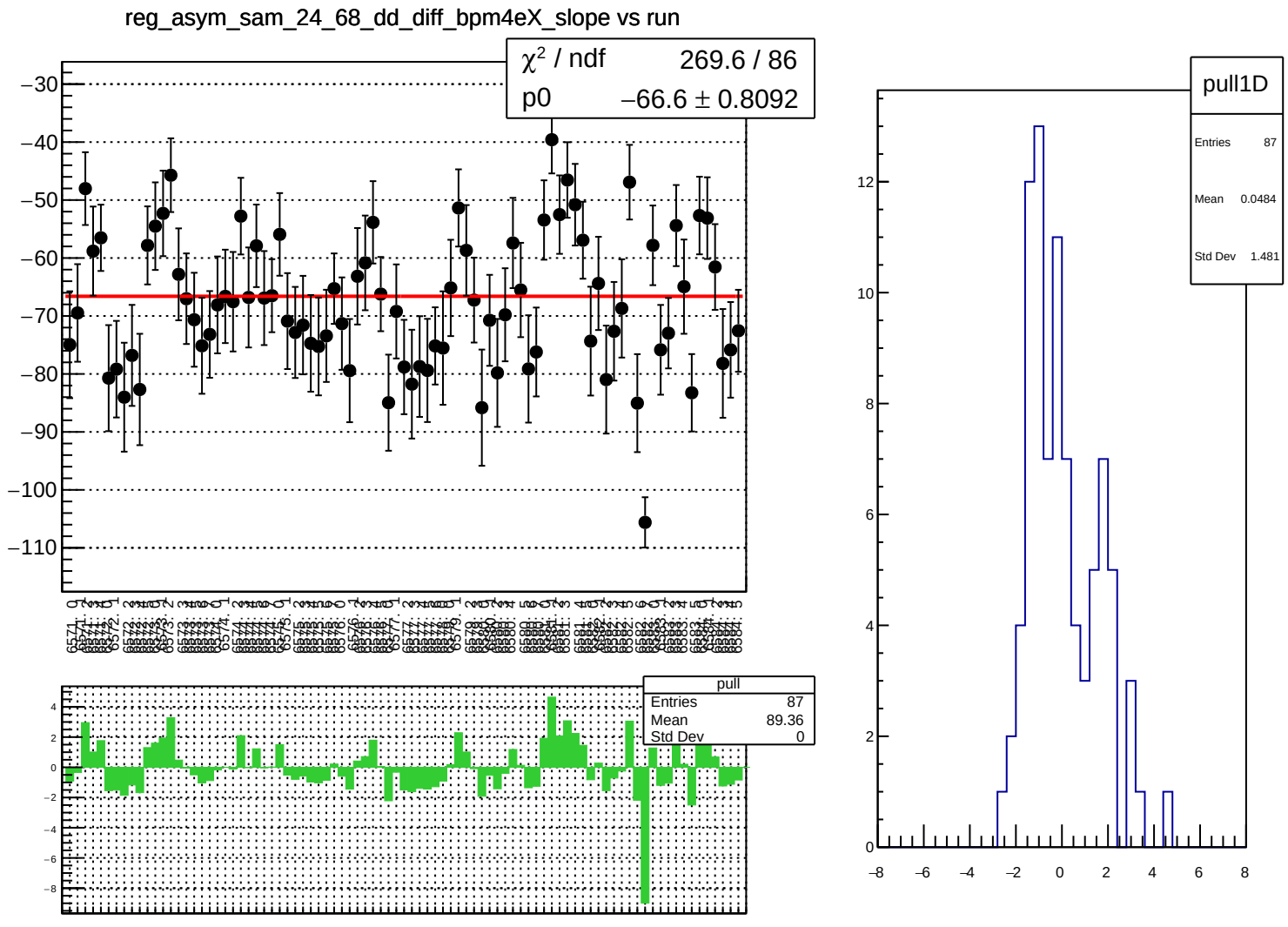

pull1D
Entries 87
Mean −0.009619
Std Dev 0.9237

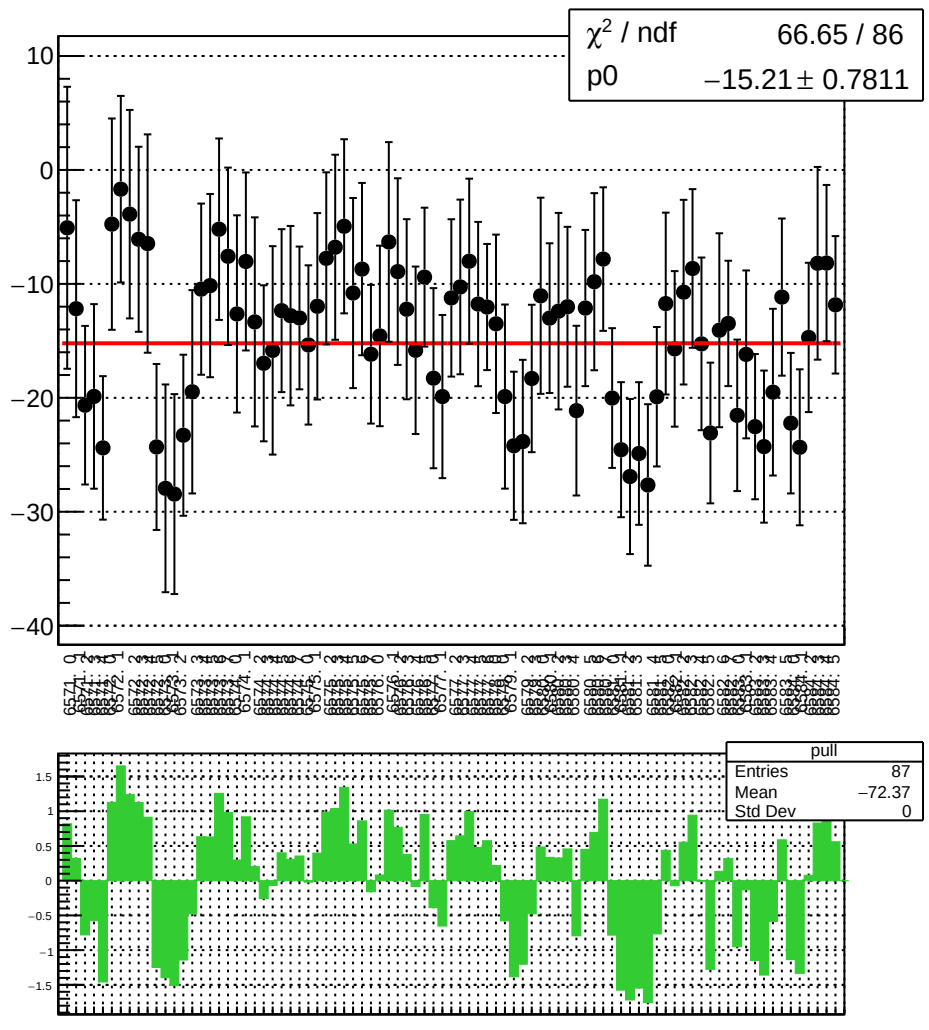

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.556 / 86
p0 −0.0939 ± 0.01464
pull
Entries 87
Mean 127.7
Std Dev 0
pull1D
Entries 87
Mean −0.01105
Std Dev 0.2743

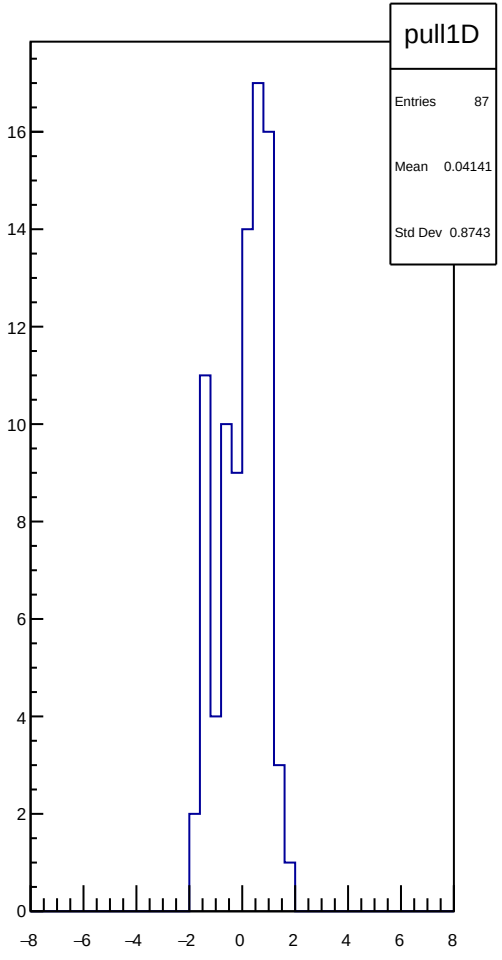

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 304.9 / 86
p0 −43.56 ± 0.787
pull
Entries 87
Mean 124
Std Dev 0
pull1D
Entries 87
Mean −0.05829
Std Dev 1.592

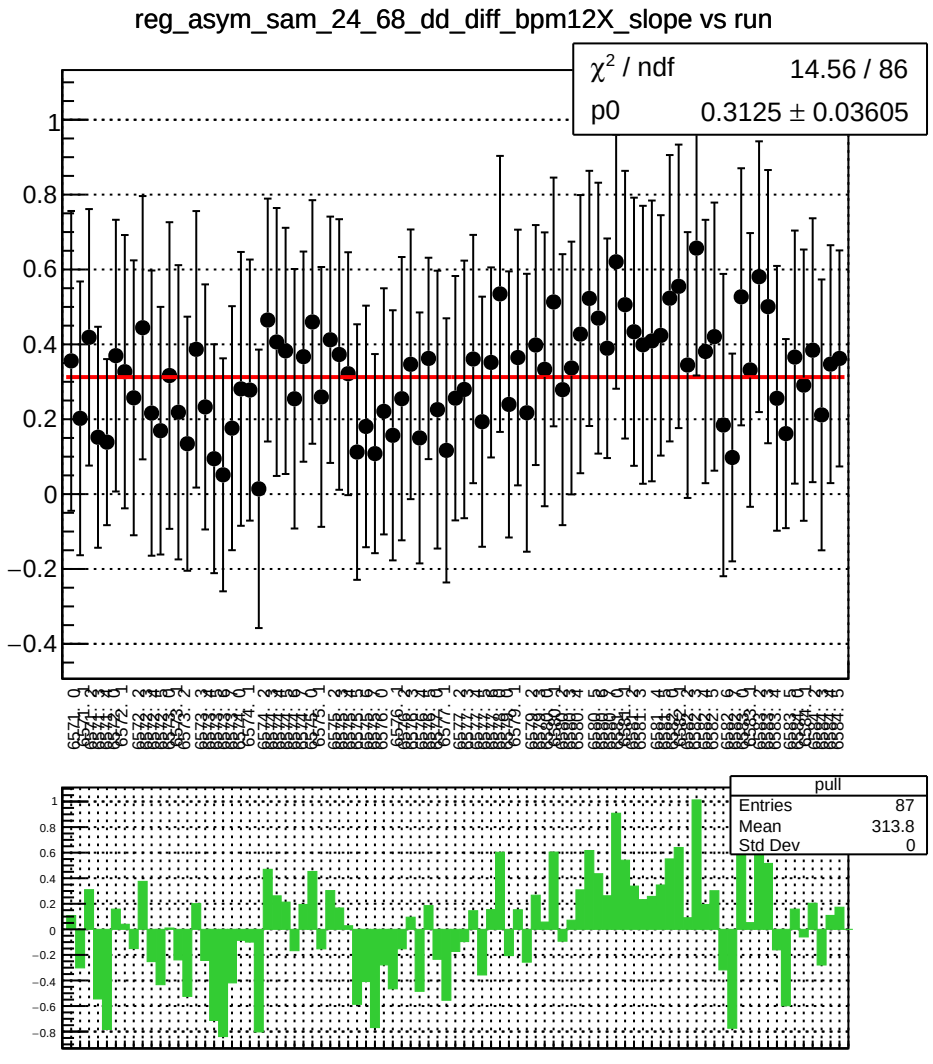

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.57 / 86
p0 2.676 ± 0.6485
pull
Entries 87
Mean −15.4
Std Dev 0

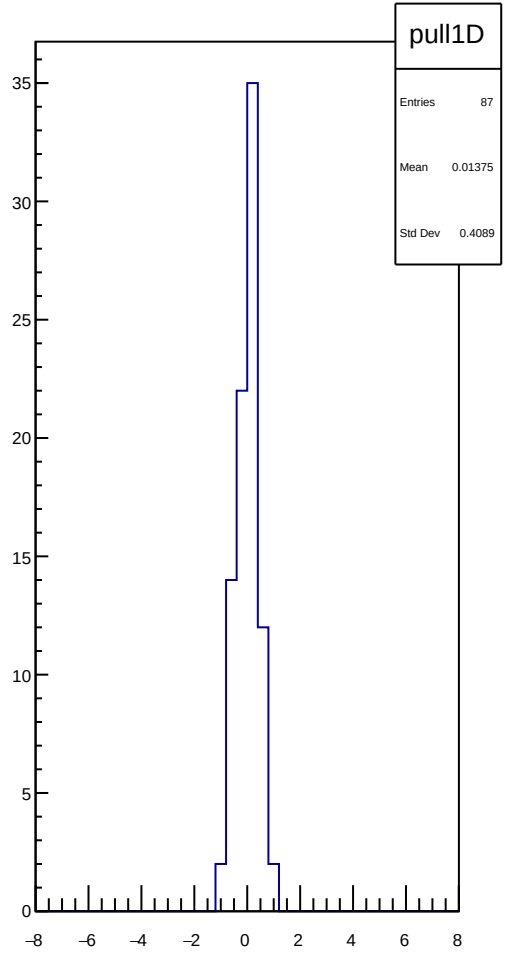

pull1D
Entries 87
Mean −0.04164
Std Dev 1.008

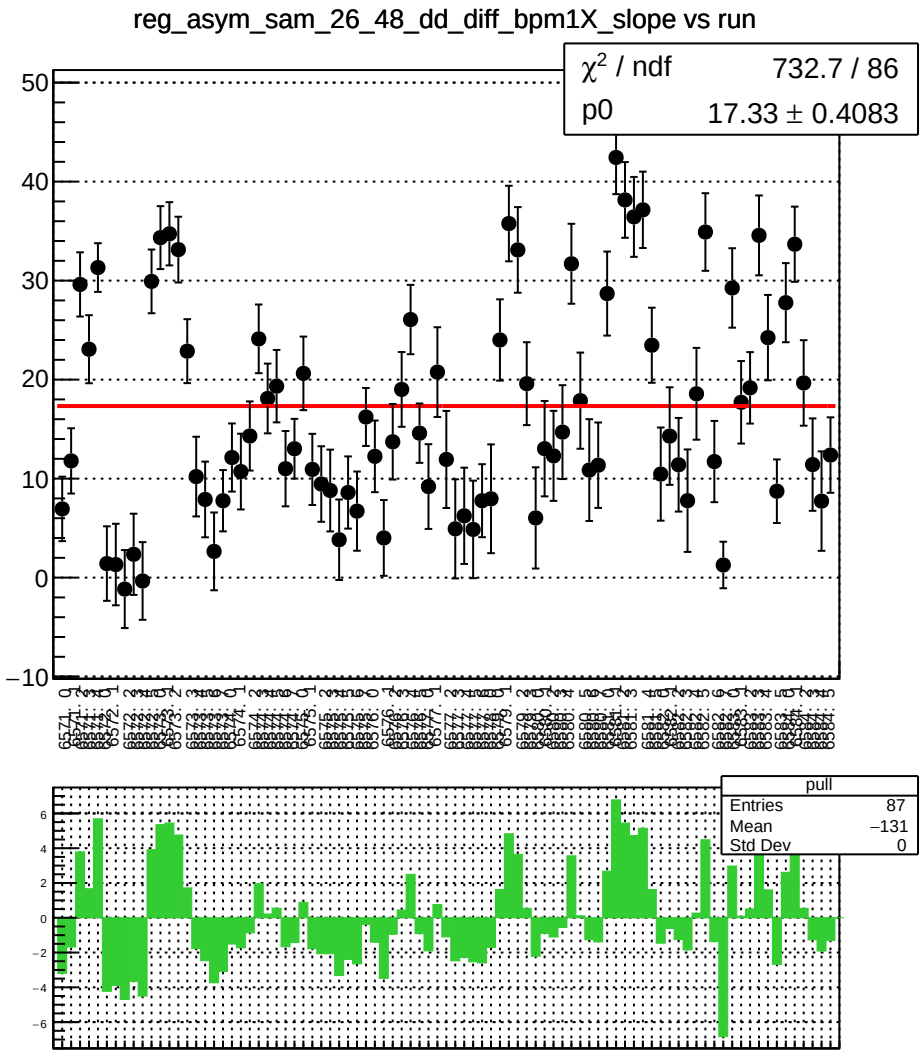

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 269.6 / 86
p0 −66.6 ± 0.8092
pull
Entries 87
Mean 89.36
Std Dev 0
pull1D
Entries 87
Mean 0.0484
Std Dev 1.481

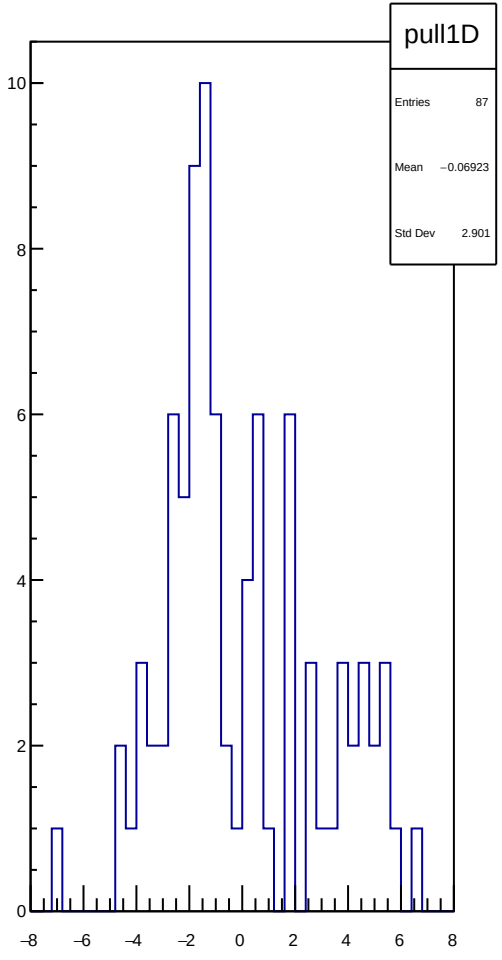

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.65 / 86
p0 −15.21 ± 0.7811
pull
Entries 87
Mean −72.37
Std Dev 0

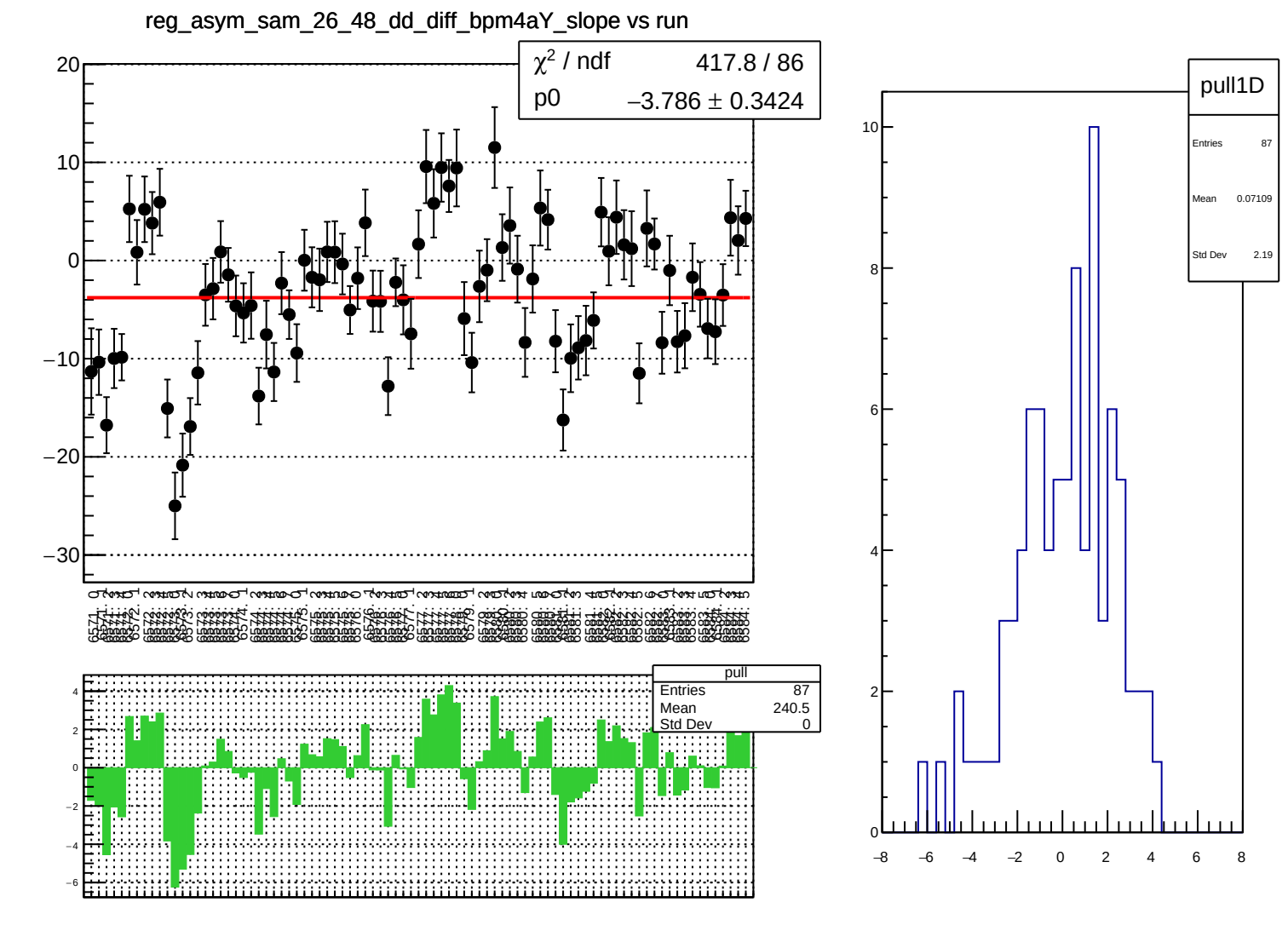

pull1D
Entries 87
Mean 0.04141
Std Dev 0.8743

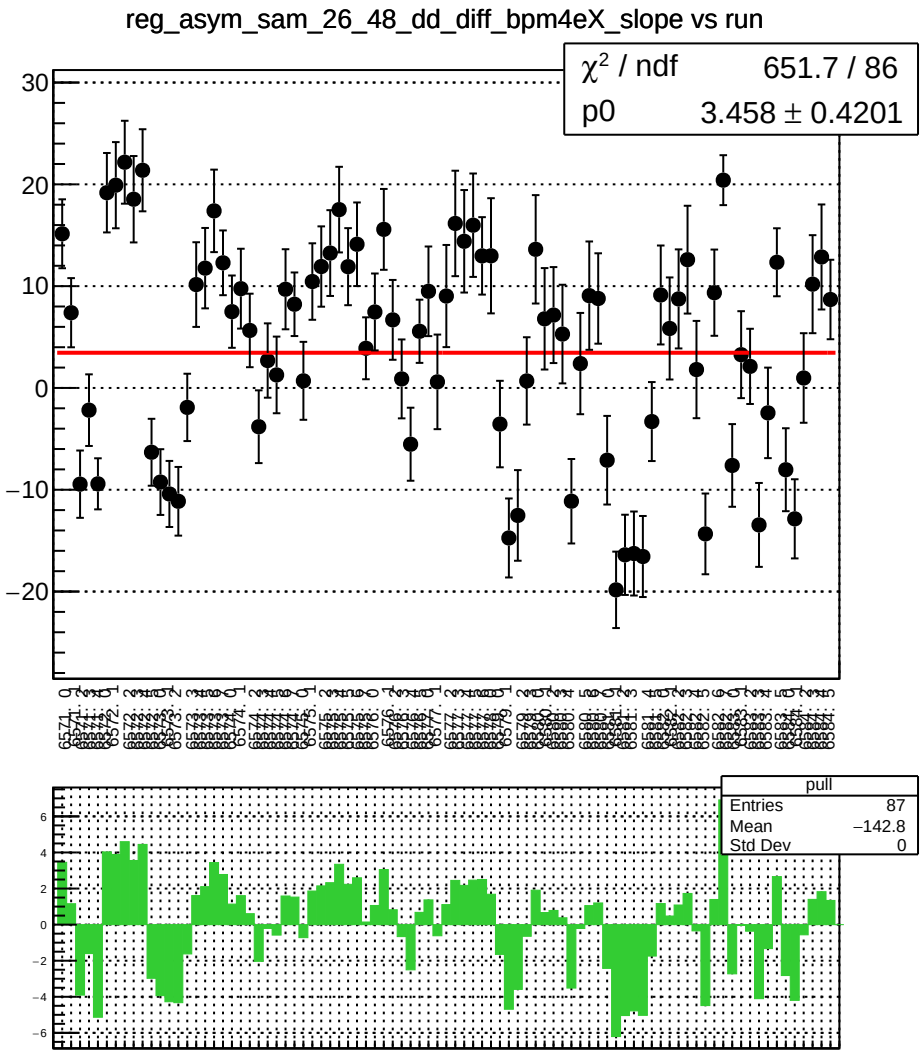

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 14.56 / 86
p0 0.3125 ± 0.03605
pull
Entries 87
Mean 313.8
Std Dev 0

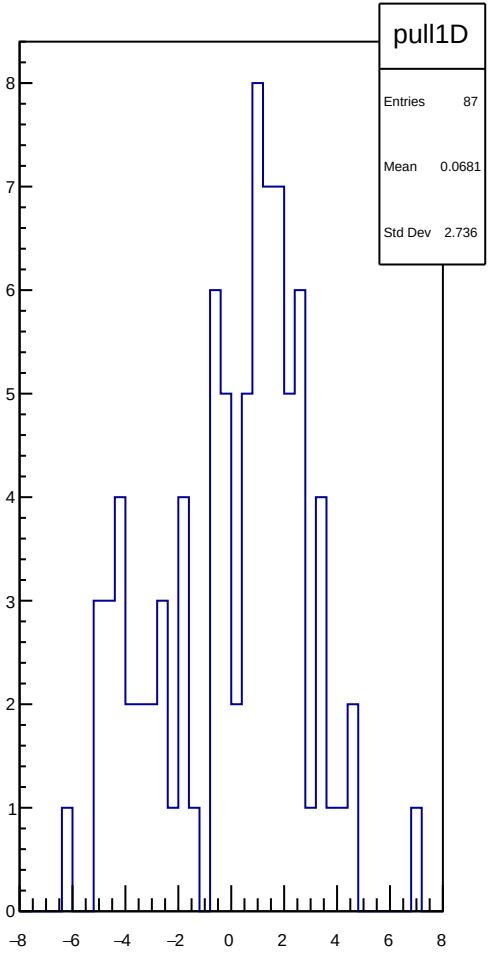

pull1D
Entries 87
Mean 0.01375
Std Dev 0.4089

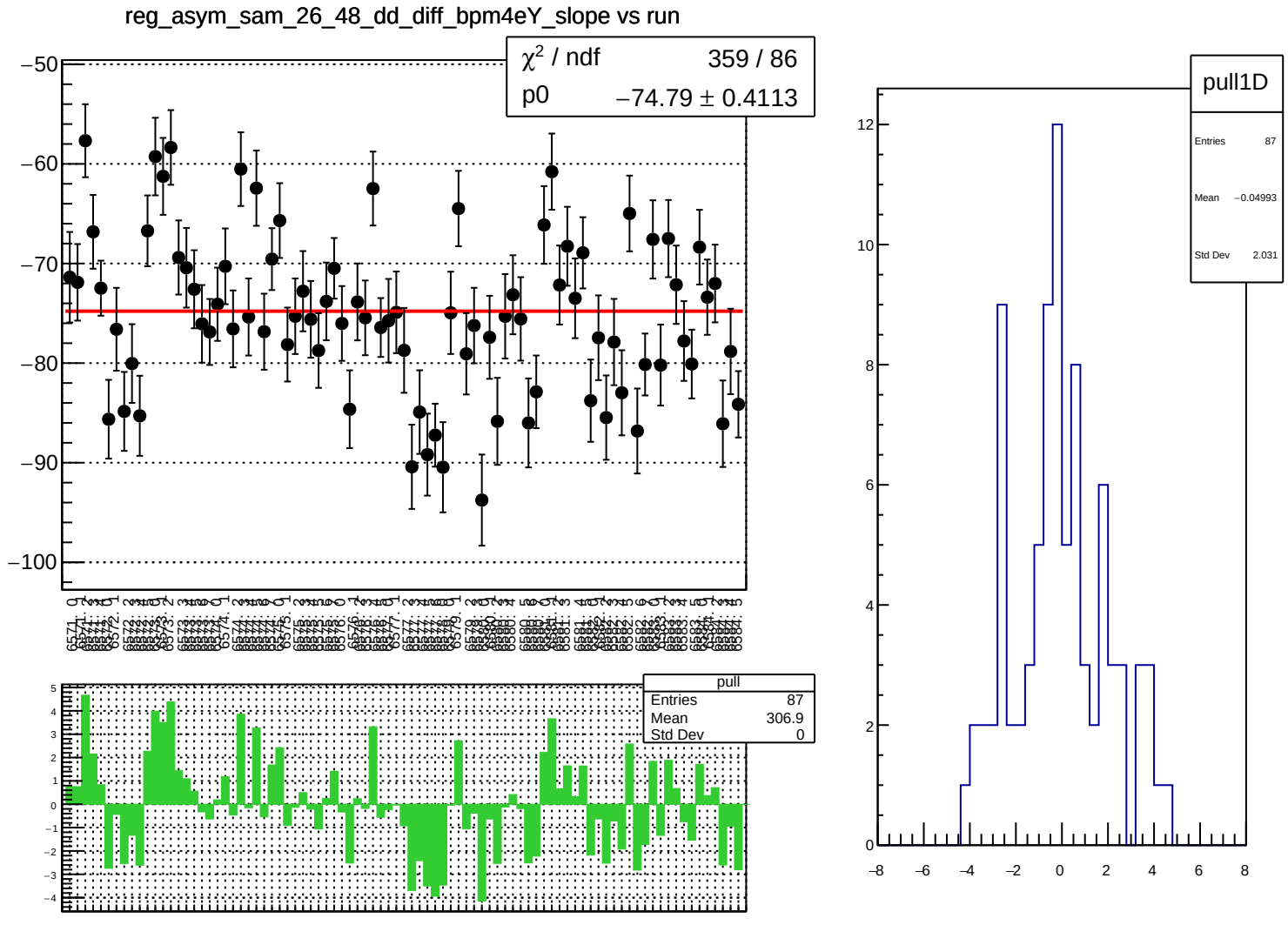

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 732.7 / 86
p0 17.33 ± 0.4083
pull
Entries 87
Mean −131
Std Dev 0

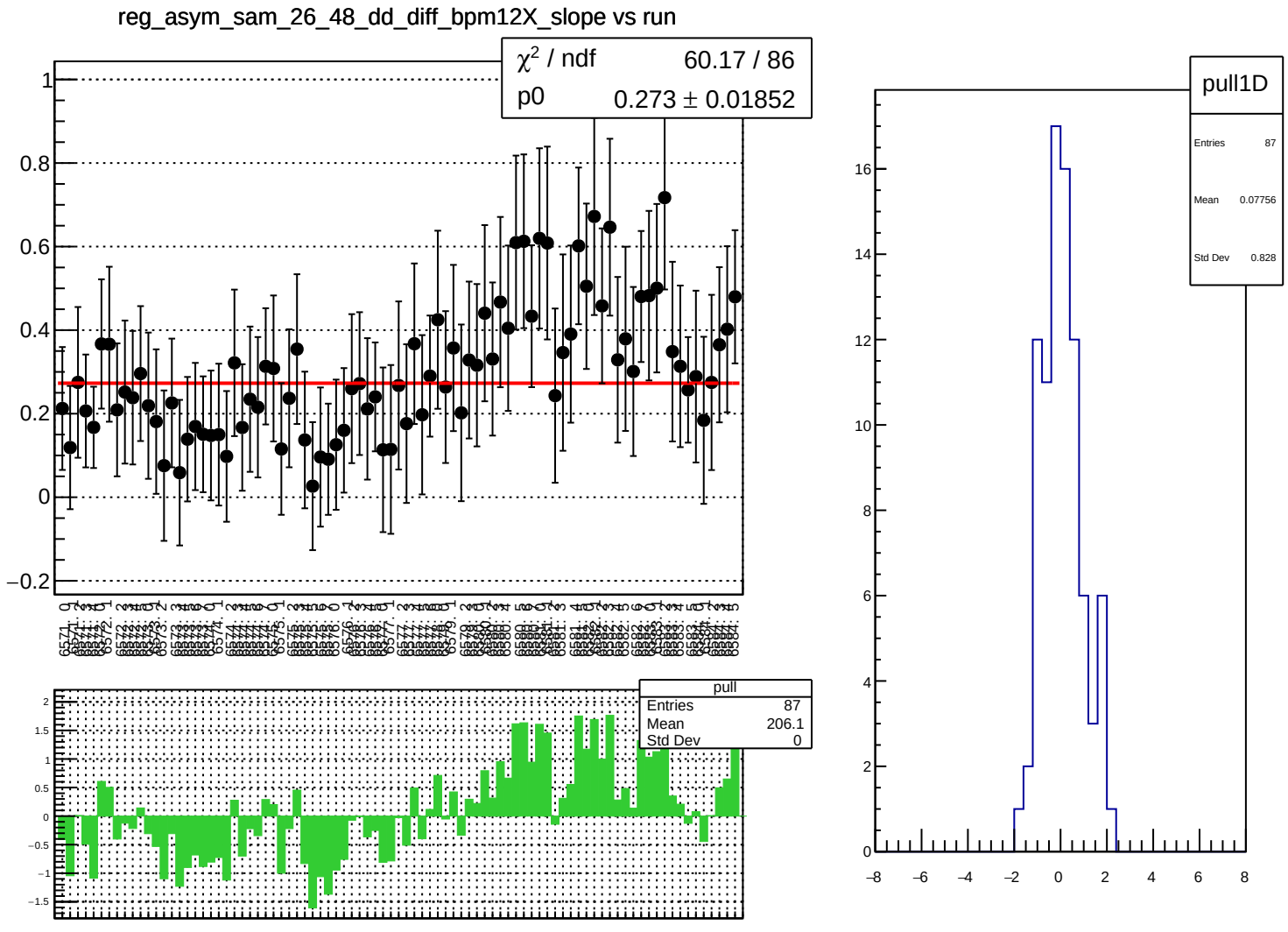

pull1D
Entries 87
Mean −0.06923
Std Dev 2.901

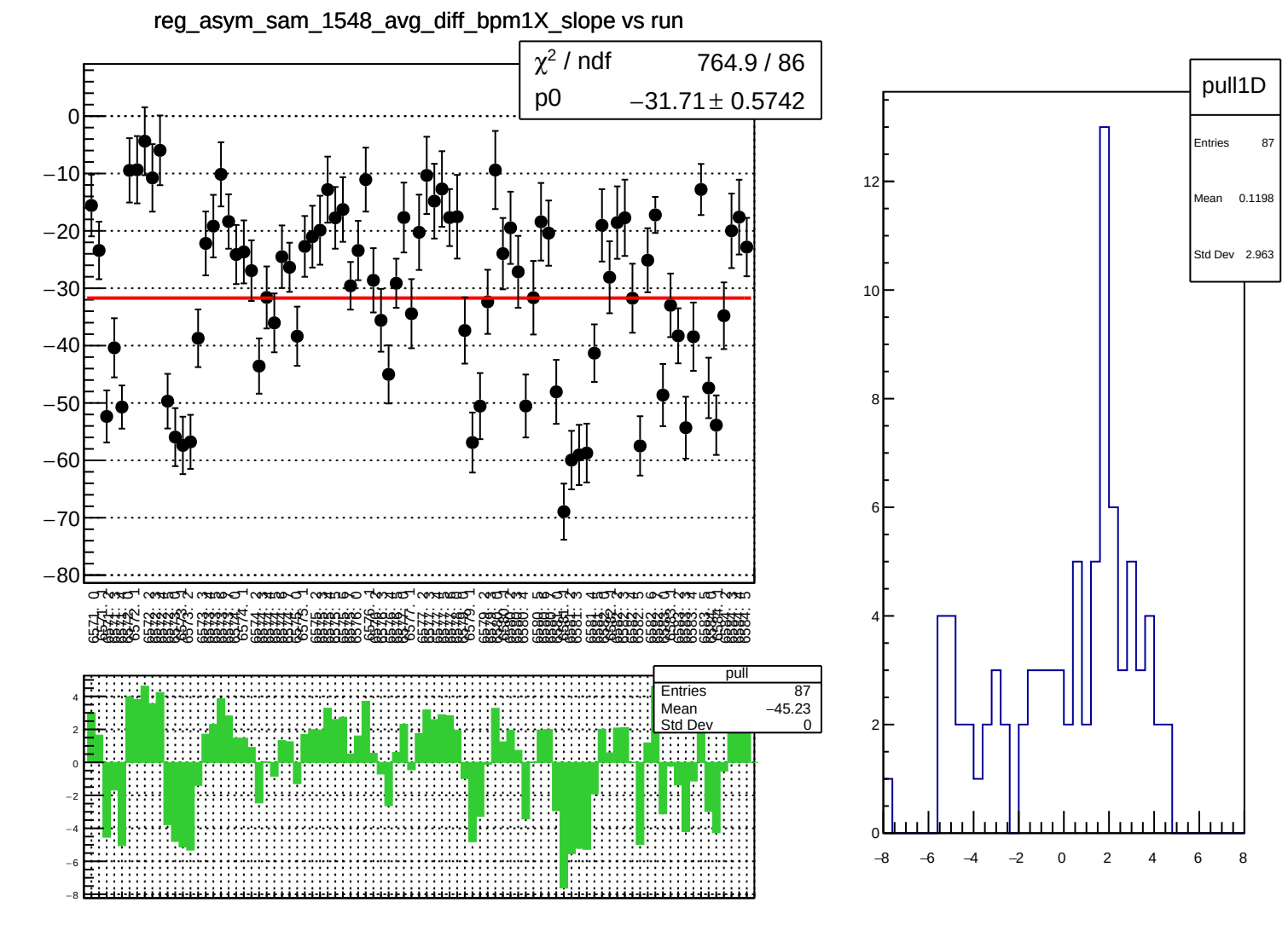

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 417.8 / 86
p0 −3.786 ± 0.3424
pull
Entries 87
Mean 240.5
Std Dev 0
pull1D
Entries 87
Mean 0.07109
Std Dev 2.19

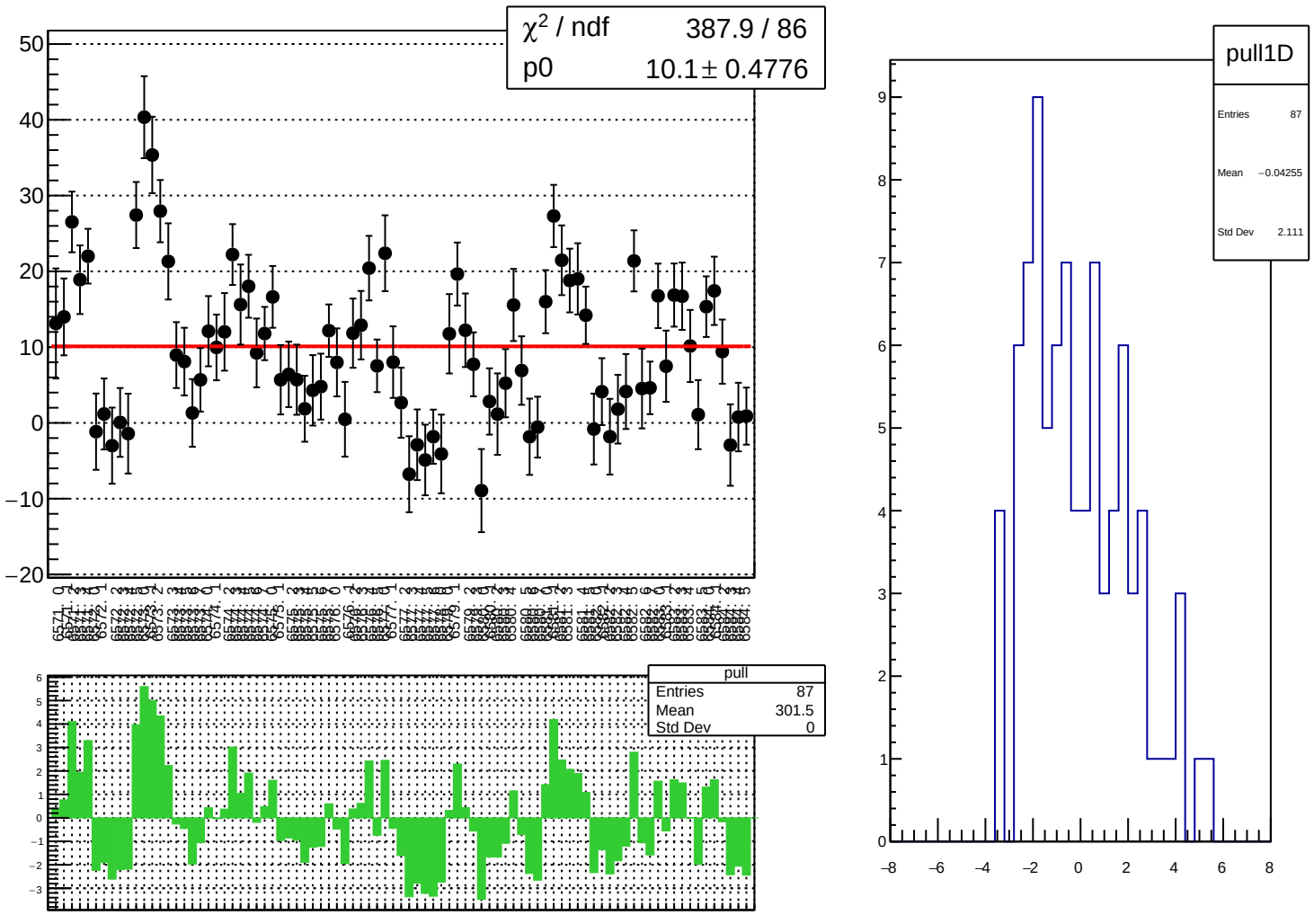

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 651.7 / 86
p0 3.458 ± 0.4201
pull
Entries 87
Mean −142.8
Std Dev 0

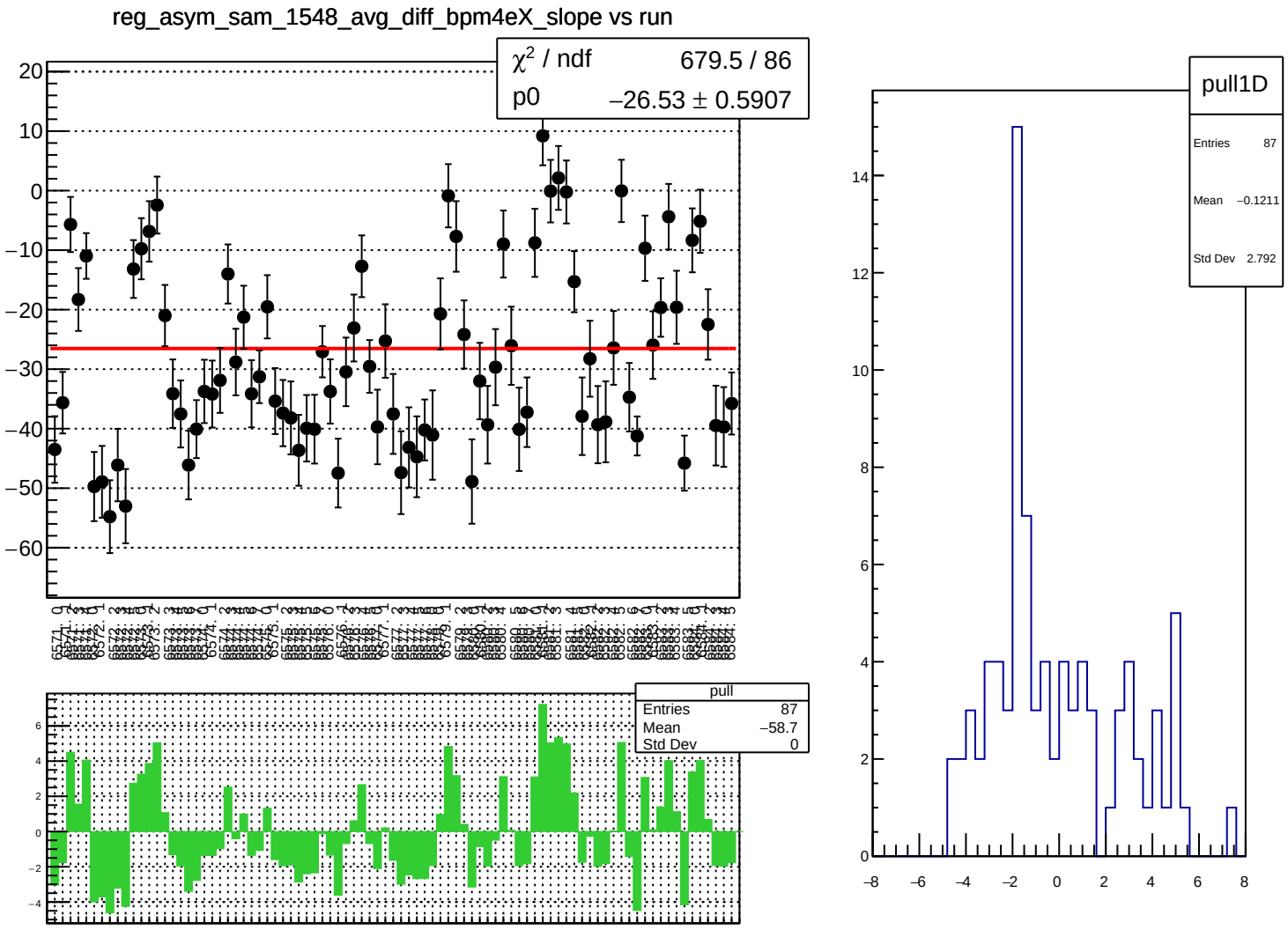

pull1D
Entries 87
Mean 0.0681
Std Dev 2.736

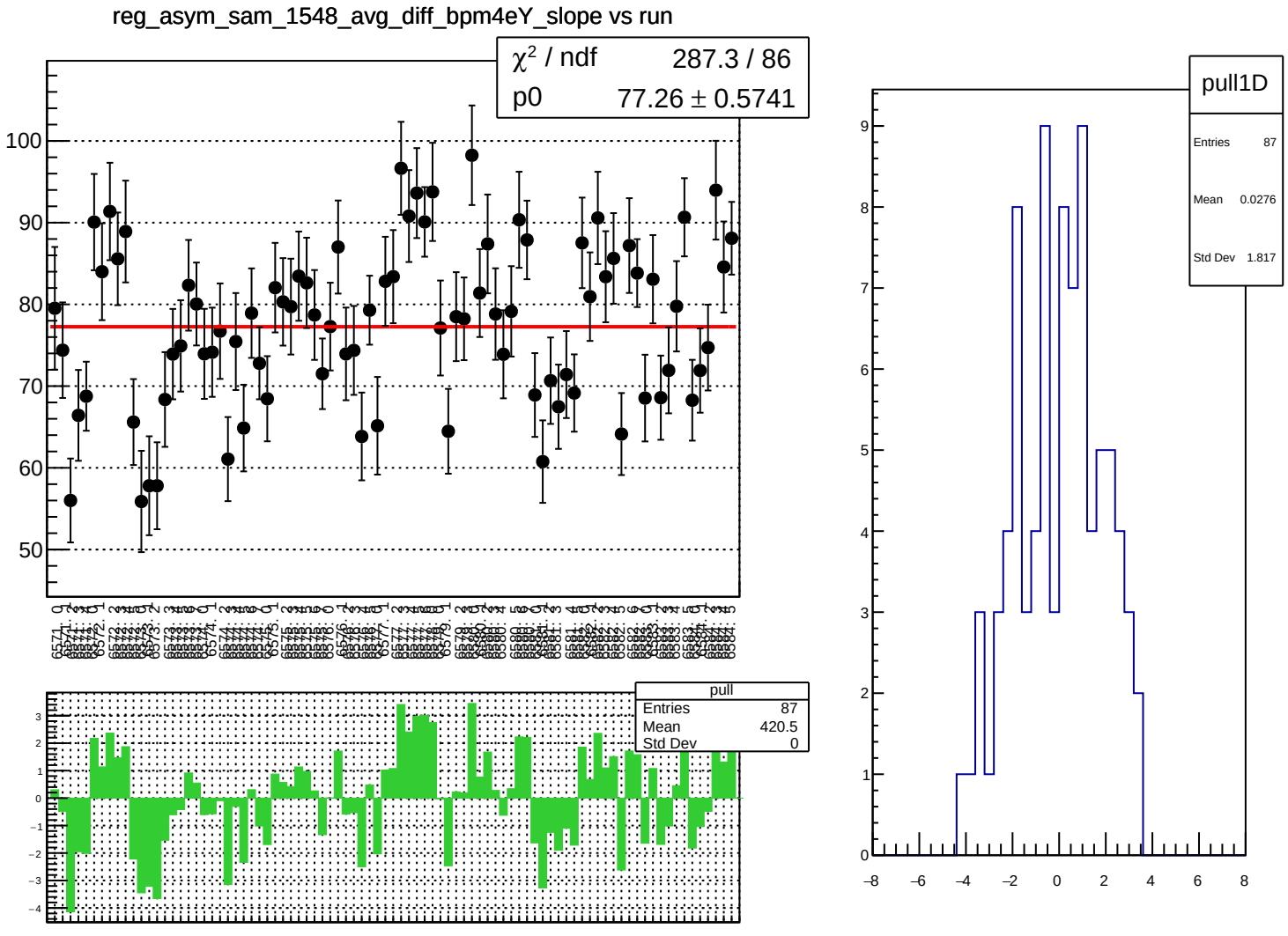

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 359 / 86
p0 −74.79 ± 0.4113
pull
Entries 87
Mean 306.9
Std Dev 0
pull1D
Entries 87
Mean −0.04993
Std Dev 2.031

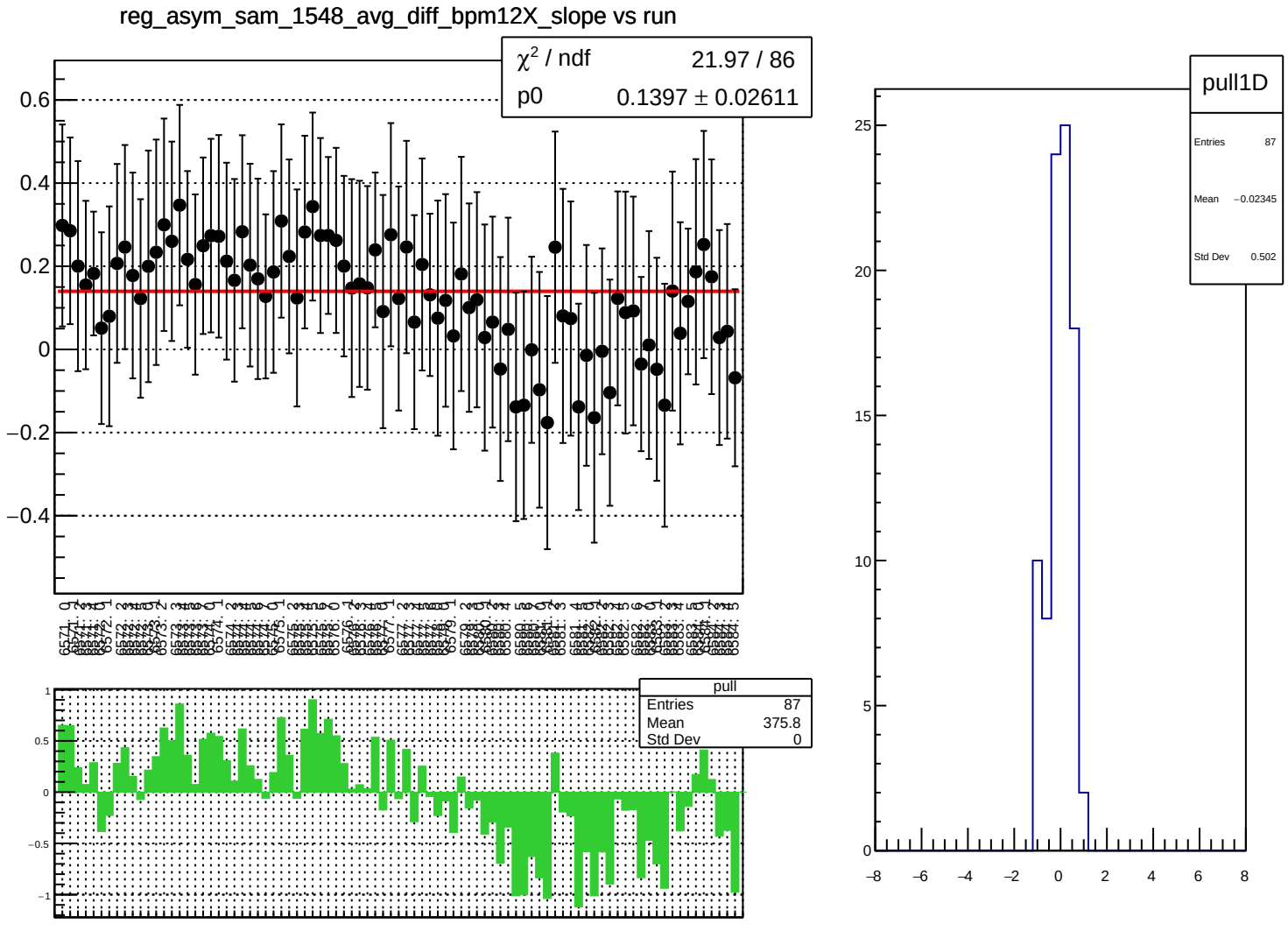

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 60.17 / 86
p0 0.273 ± 0.01852
pull
Entries 87
Mean 206.1
Std Dev 0
pull1D
Entries 87
Mean 0.07756
Std Dev 0.828

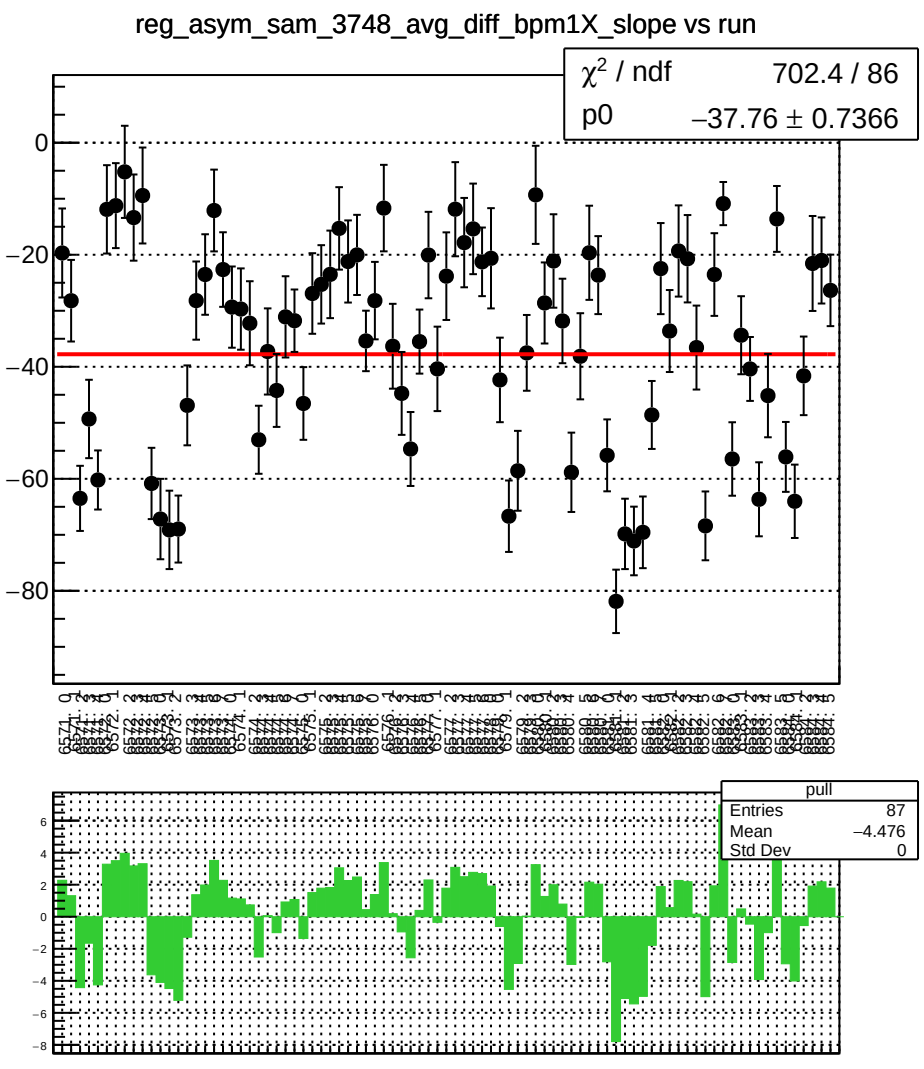

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 764.9 / 86
p0 −31.71 ± 0.5742
pull
Entries 87
Mean −45.23
Std Dev 0
pull1D
Entries 87
Mean 0.1198
Std Dev 2.963

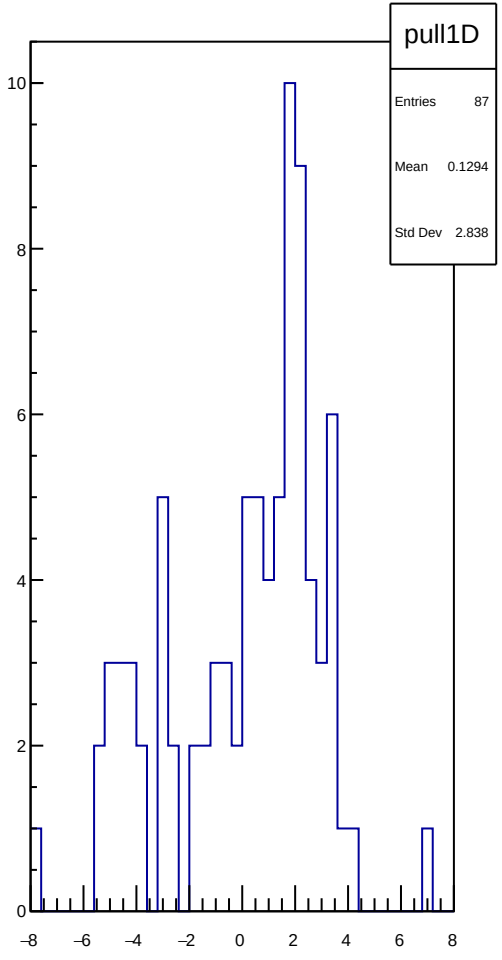

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 387.9 / 86
p0 10.1 ± 0.4776
pull
Entries 87
Mean 301.5
Std Dev 0
pull1D
Entries 87
Mean −0.04255
Std Dev 2.111

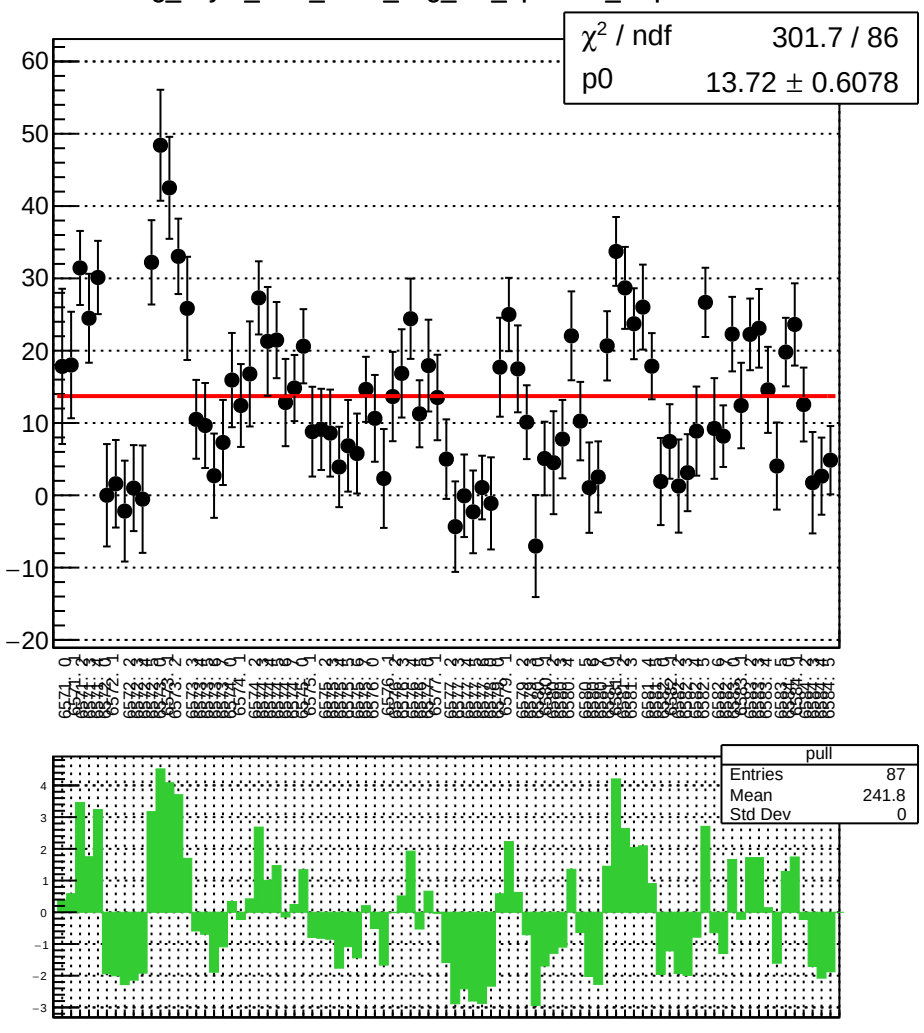

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 679.5 / 86
p0 −26.53 ± 0.5907
pull
Entries 87
Mean −58.7
Std Dev 0
pull1D
Entries 87
Mean −0.1211
Std Dev 2.792

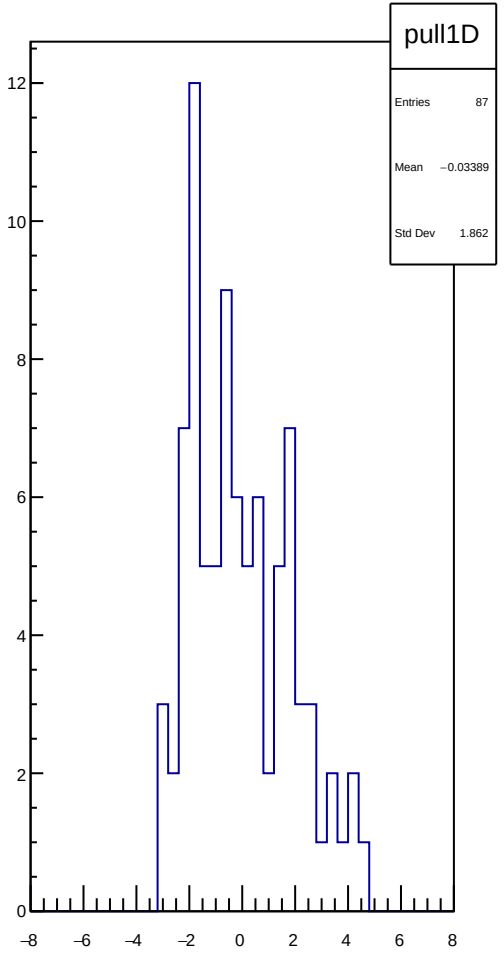

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 287.3 / 86
p0 77.26 ± 0.5741
pull
Entries 87
Mean 420.5
Std Dev 0
pull1D
Entries 87
Mean 0.0276
Std Dev 1.817

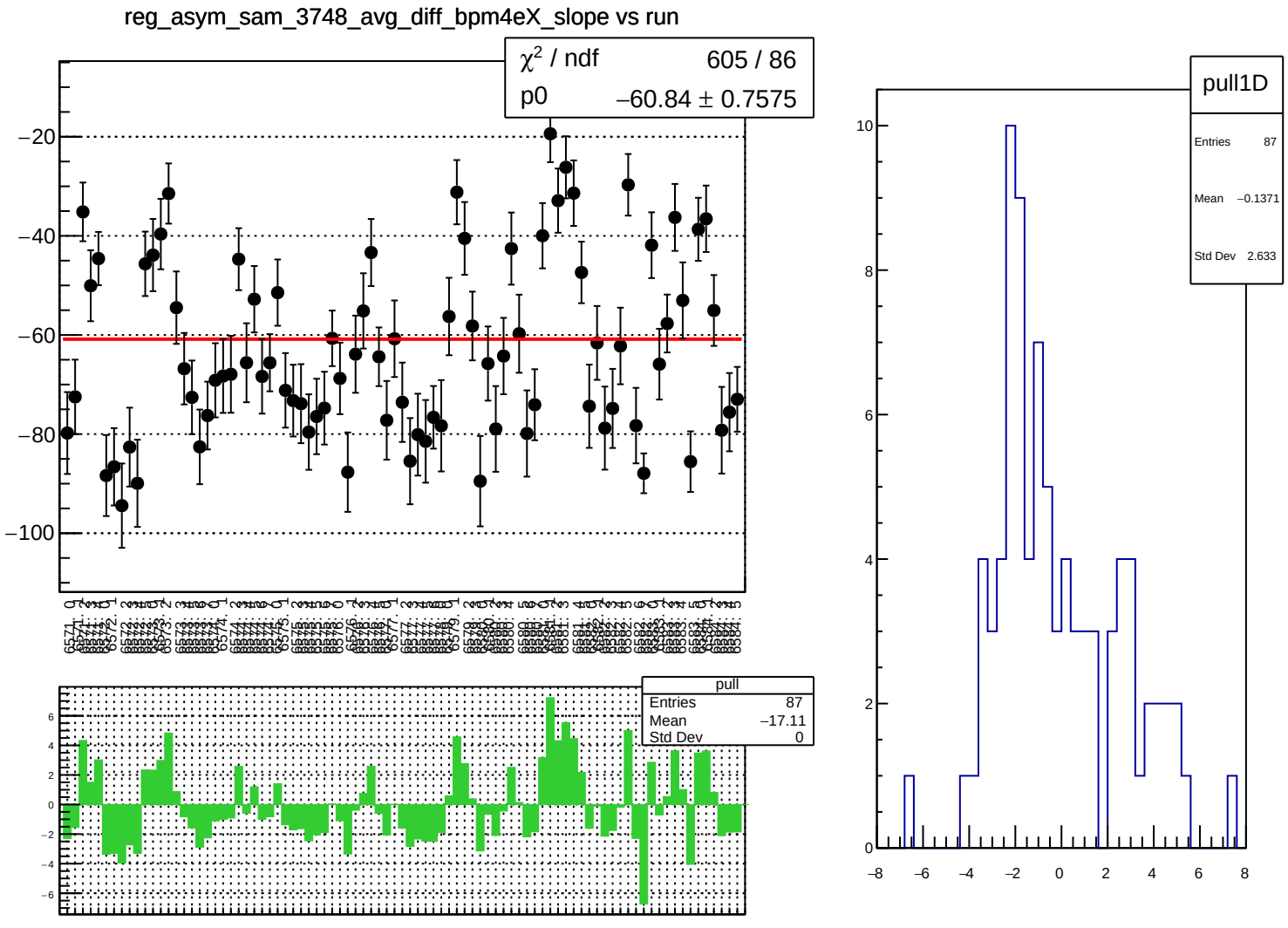

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 21.97 / 86
p0 0.1397 ± 0.02611
pull
Entries 87
Mean 375.8
Std Dev 0
pull1D
Entries 87
Mean −0.02345
Std Dev 0.502

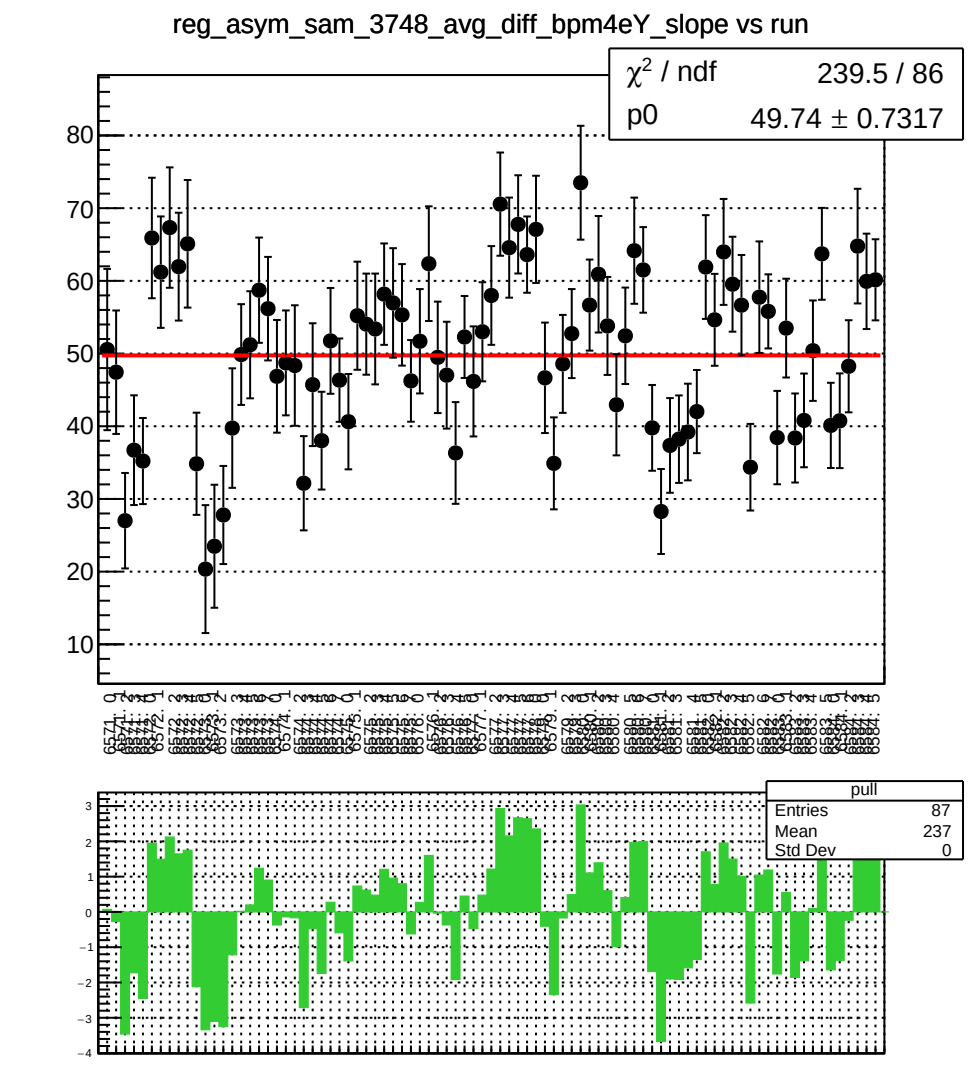

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 702.4 / 86
p0 −37.76 ± 0.7366
pull
Entries 87
Mean −4.476
Std Dev 0

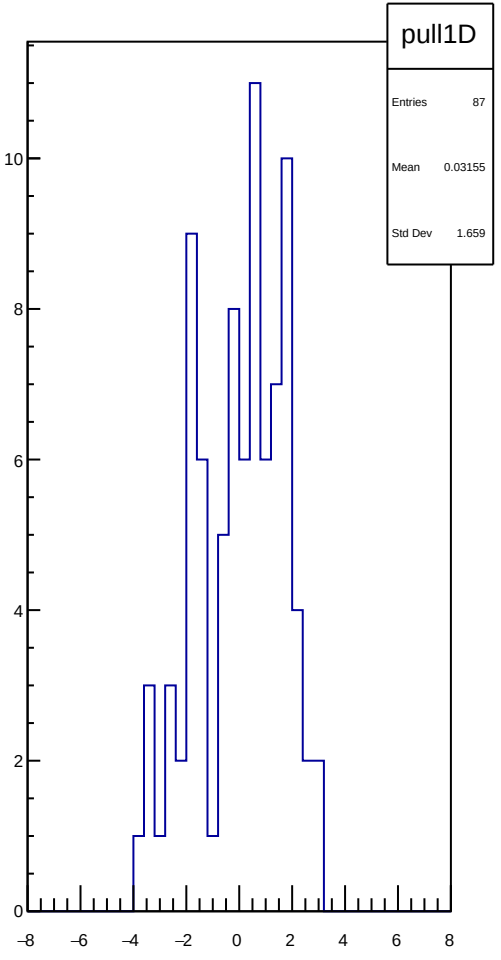

pull1D
Entries 87
Mean 0.1294
Std Dev 2.838

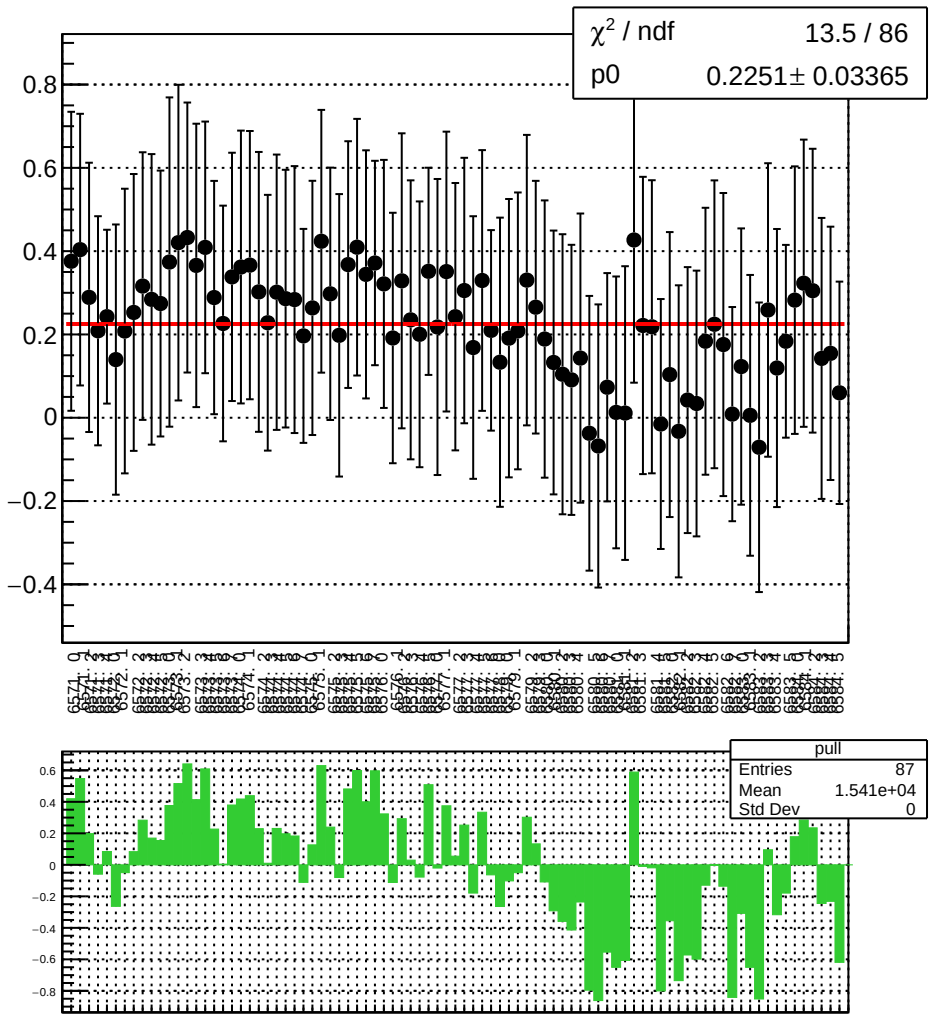

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 301.7 / 86
p0 13.72 ± 0.6078
pull
Entries 87
Mean 241.8
Std Dev 0

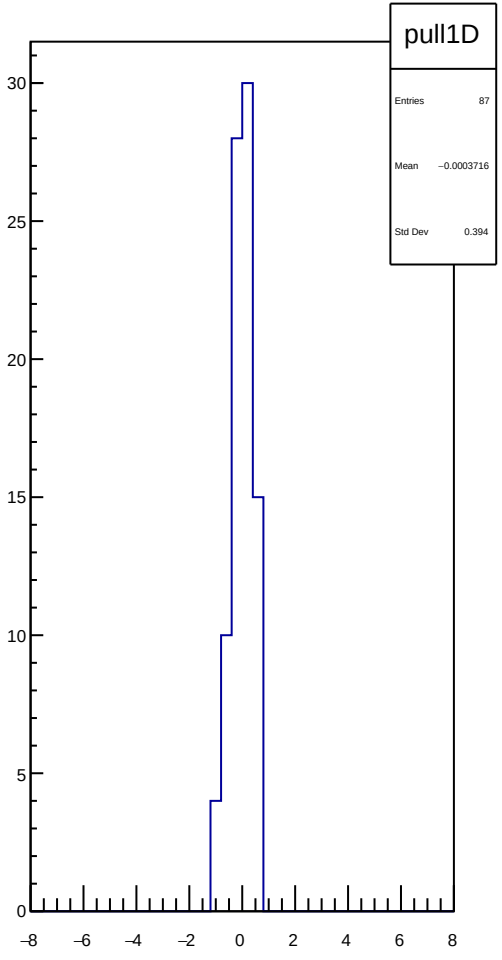

pull1D
Entries 87
Mean −0.03389
Std Dev 1.862

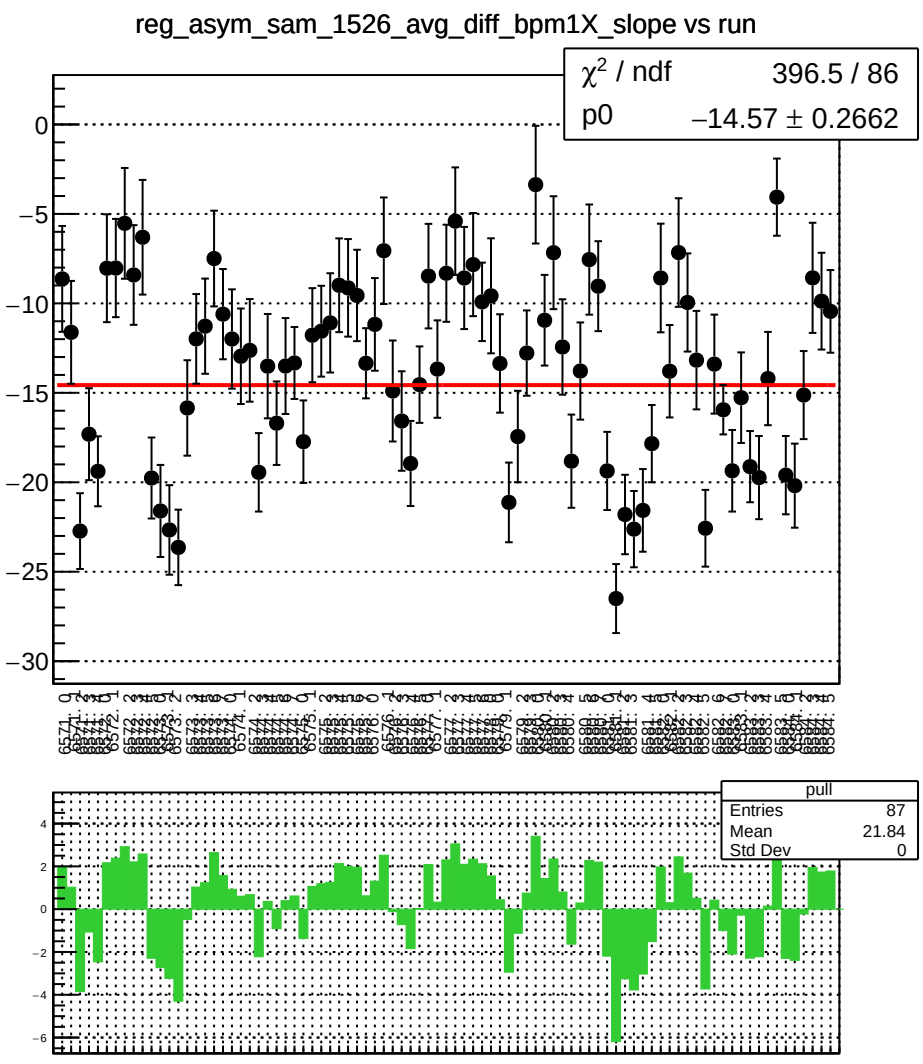

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 605 / 86
p0 −60.84 ± 0.7575
pull
Entries 87
Mean −17.11
Std Dev 0
pull1D
Entries 87
Mean −0.1371
Std Dev 2.633

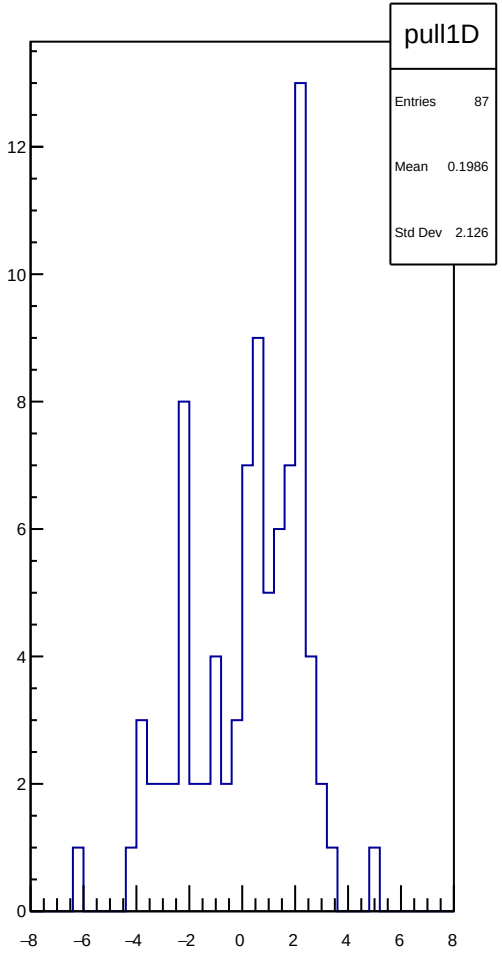

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 239.5 / 86
p0 49.74 ± 0.7317
pull
Entries 87
Mean 237
Std Dev 0

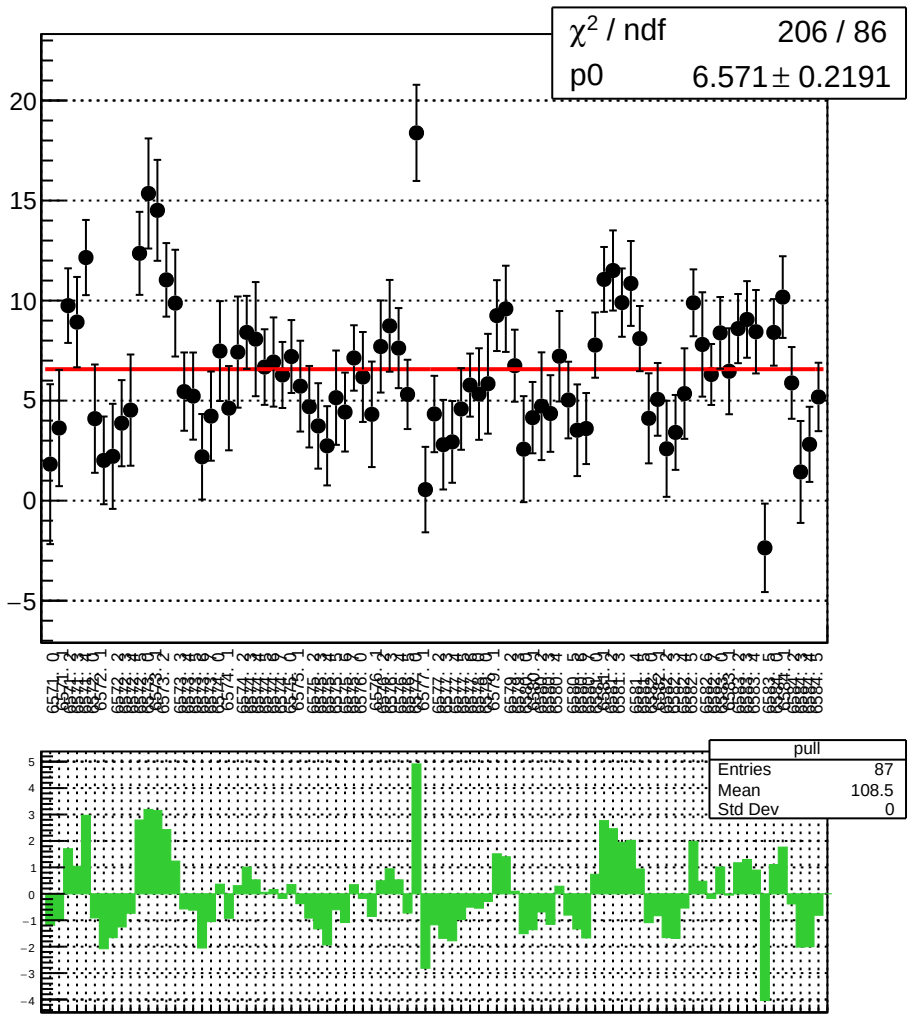

pull1D
Entries 87
Mean 0.03155
Std Dev 1.659

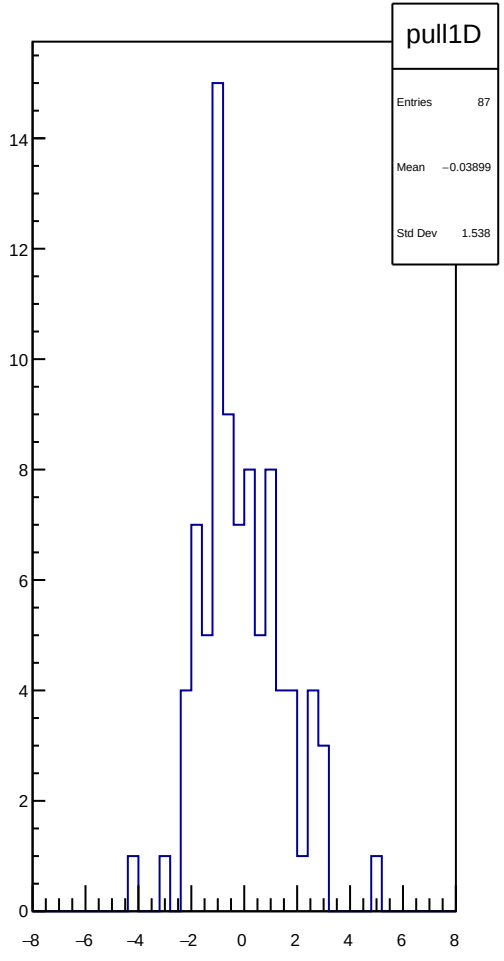

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 13.5 / 86
p0 0.2251± 0.03365
pull
Entries 87
Mean 1.541e+04
Std Dev 0

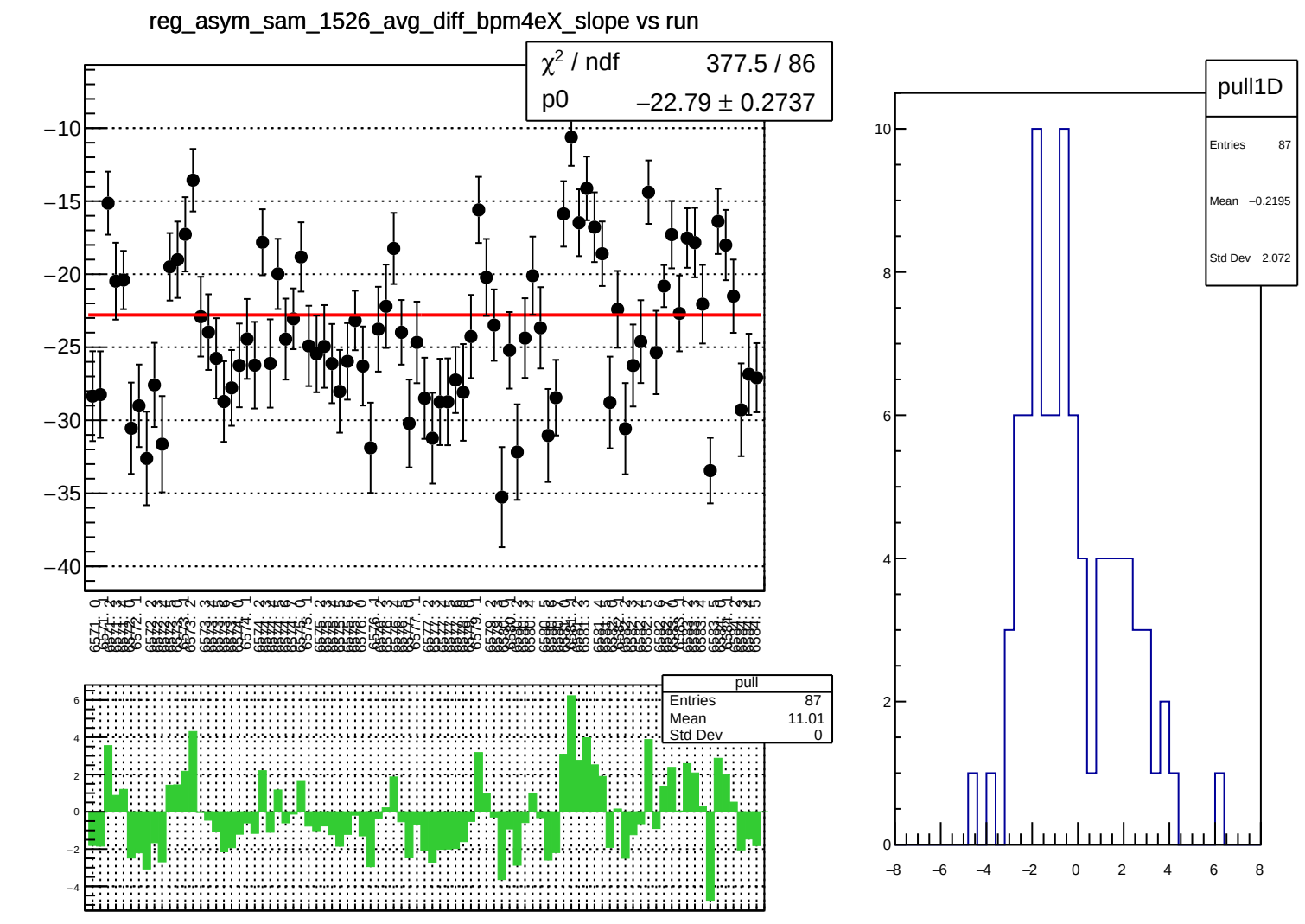

pull1D
Entries 87
Mean −0.0003716
Std Dev 0.394

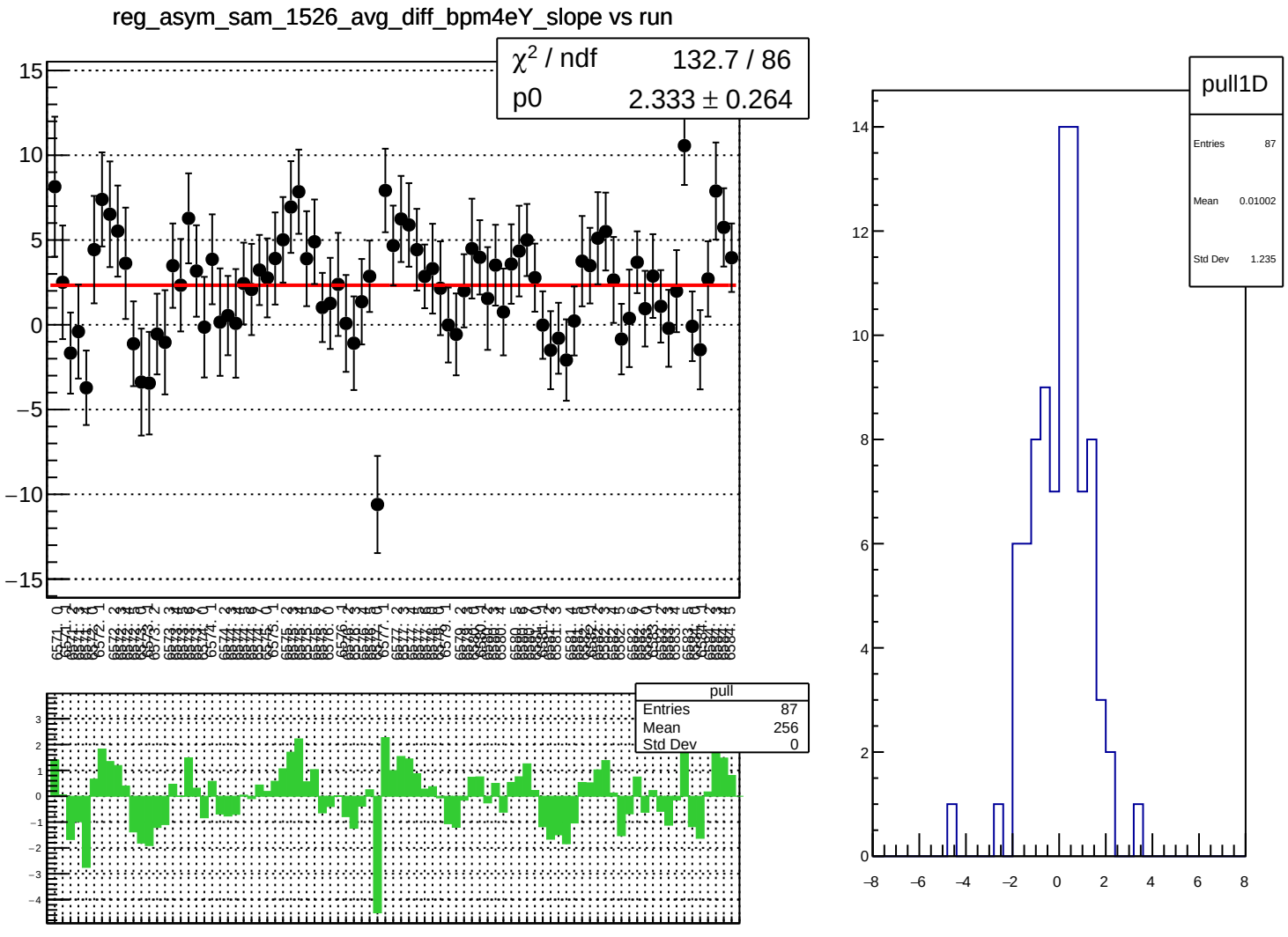

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 396.5 / 86
p0 −14.57 ± 0.2662
pull
Entries 87
Mean 21.84
Std Dev 0

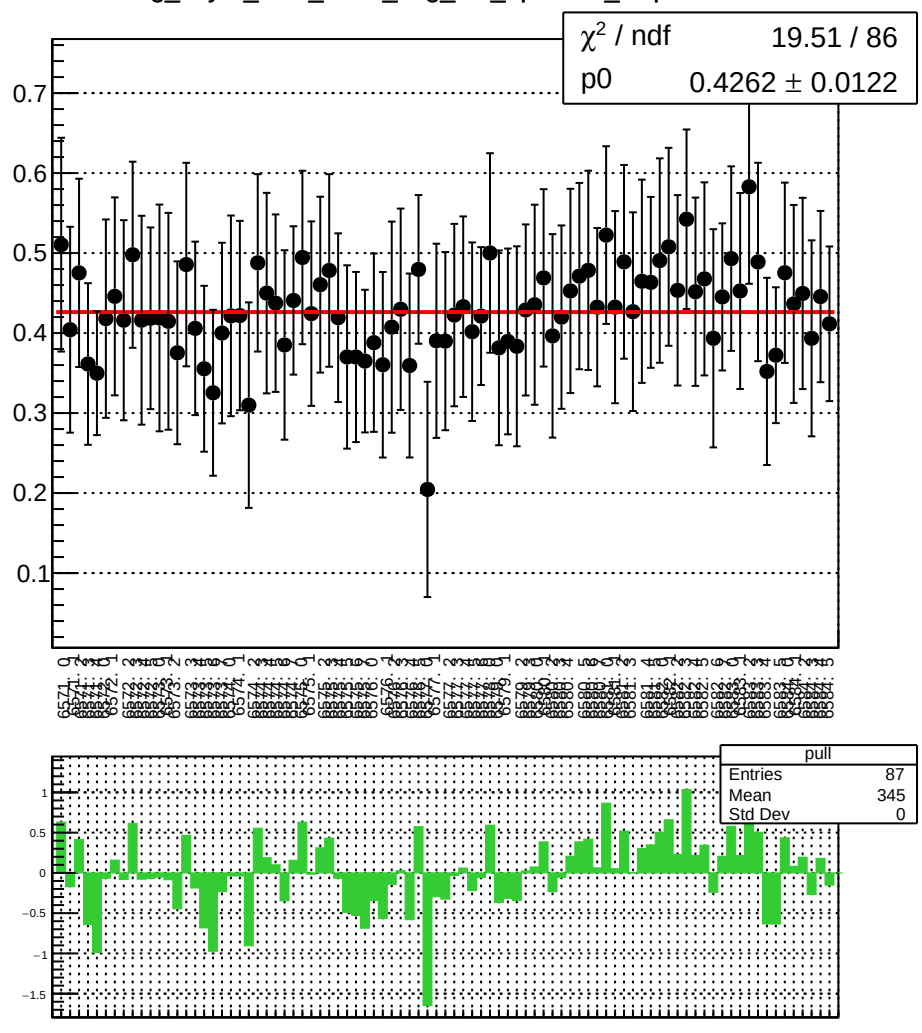

pull1D
Entries 87
Mean 0.1986
Std Dev 2.126

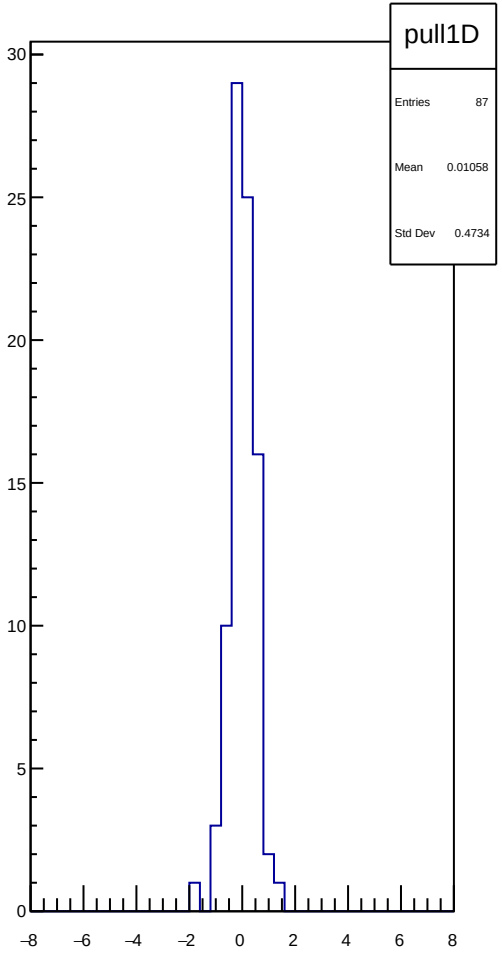

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 206 / 86
p0 6.571 ± 0.2191
pull
Entries 87
Mean 108.5
Std Dev 0

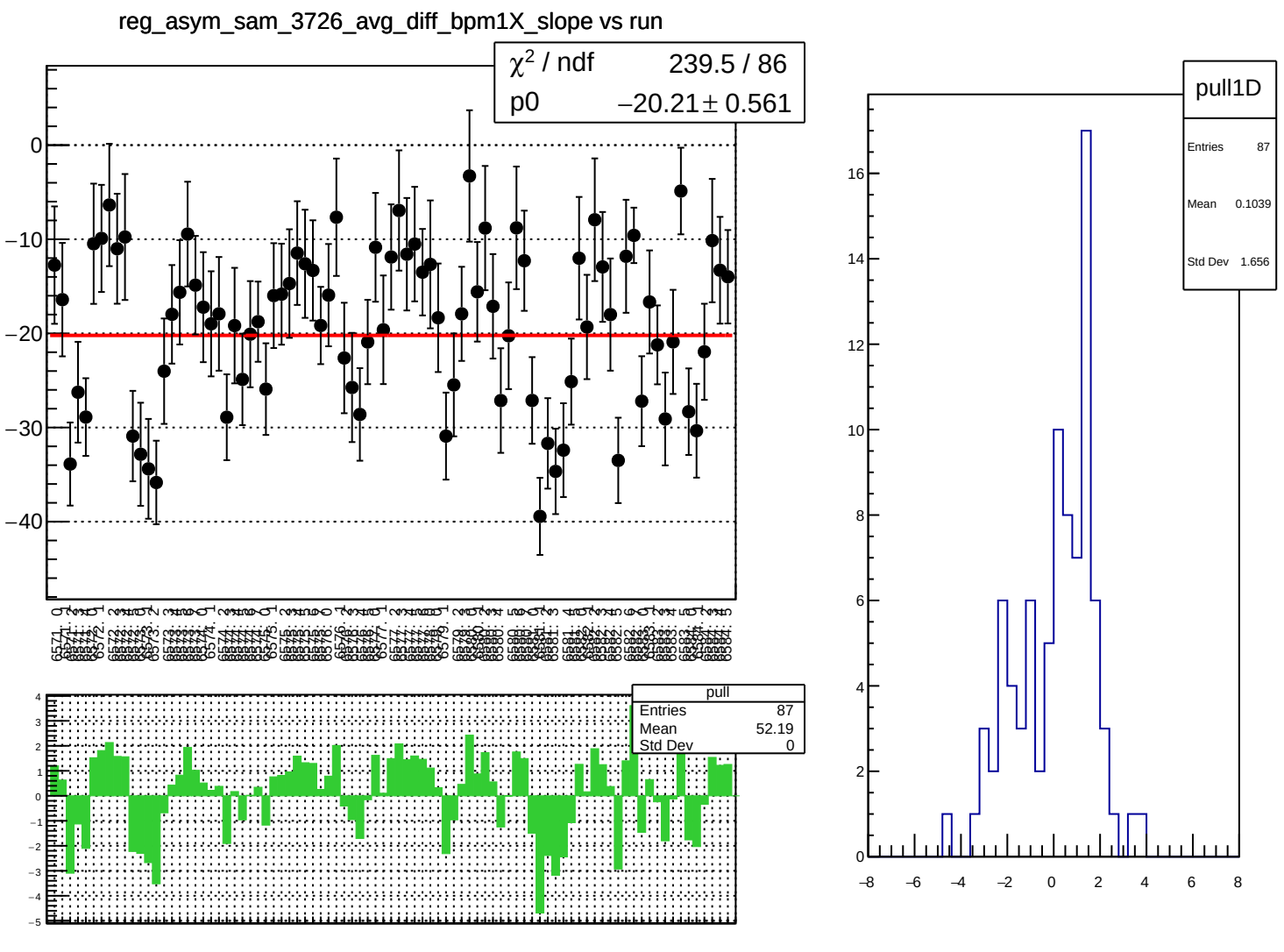

pull1D
Entries 87
Mean −0.03899
Std Dev 1.538

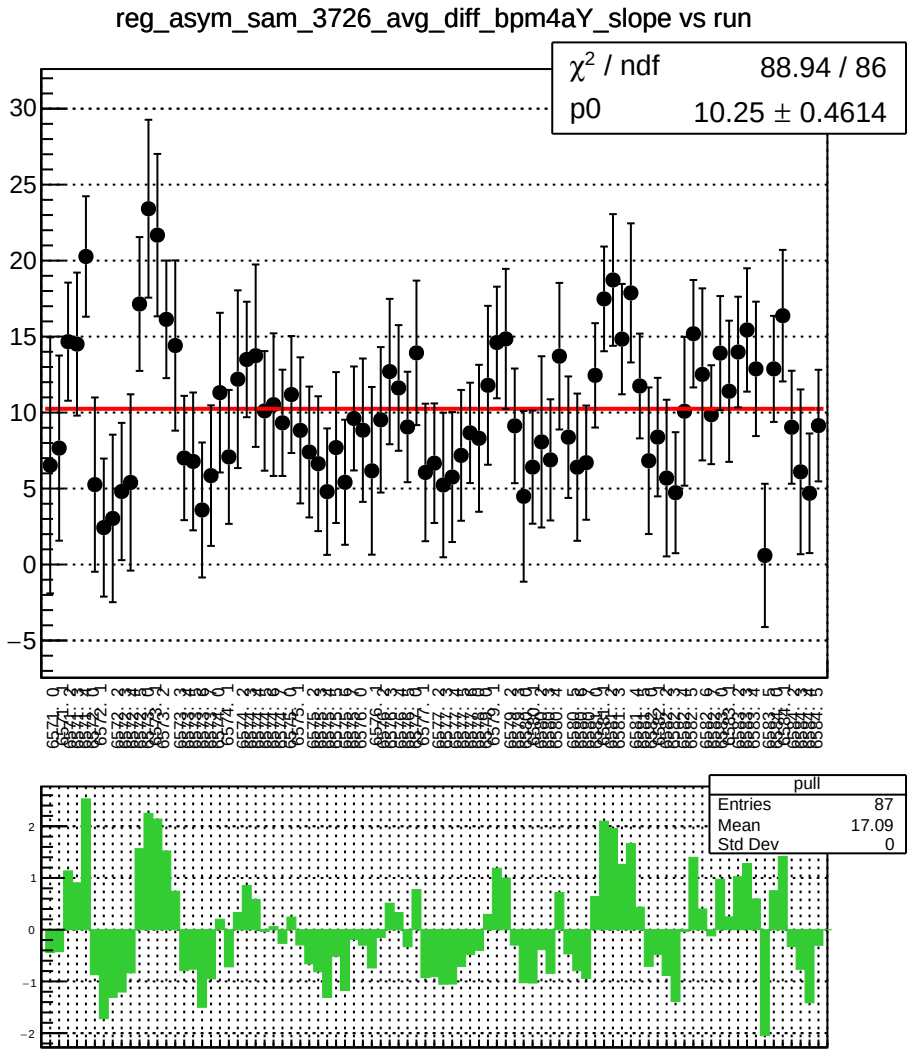

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 377.5 / 86
p0 −22.79 ± 0.2737
pull
Entries 87
Mean 11.01
Std Dev 0
pull1D
Entries 87
Mean −0.2195
Std Dev 2.072

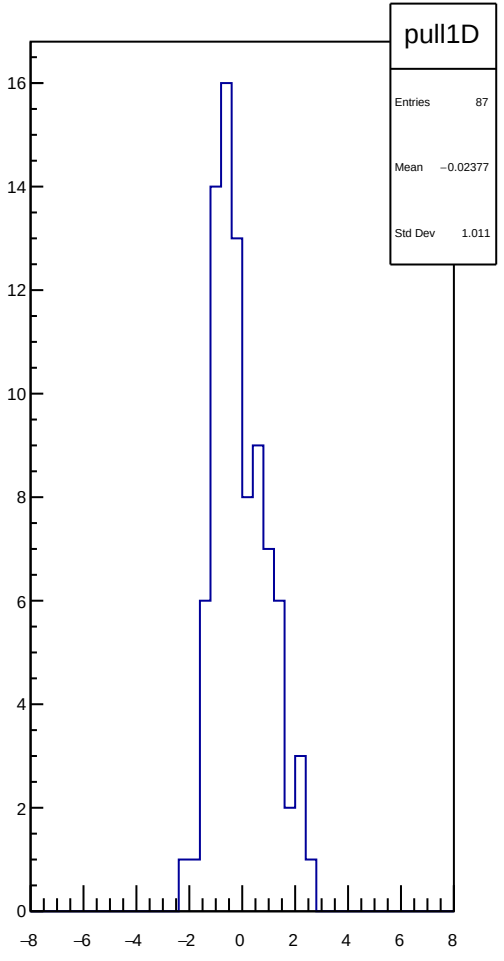

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 132.7 / 86
p0 2.333 ± 0.264
pull
Entries 87
Mean 256
Std Dev 0
pull1D
Entries 87
Mean 0.01002
Std Dev 1.235

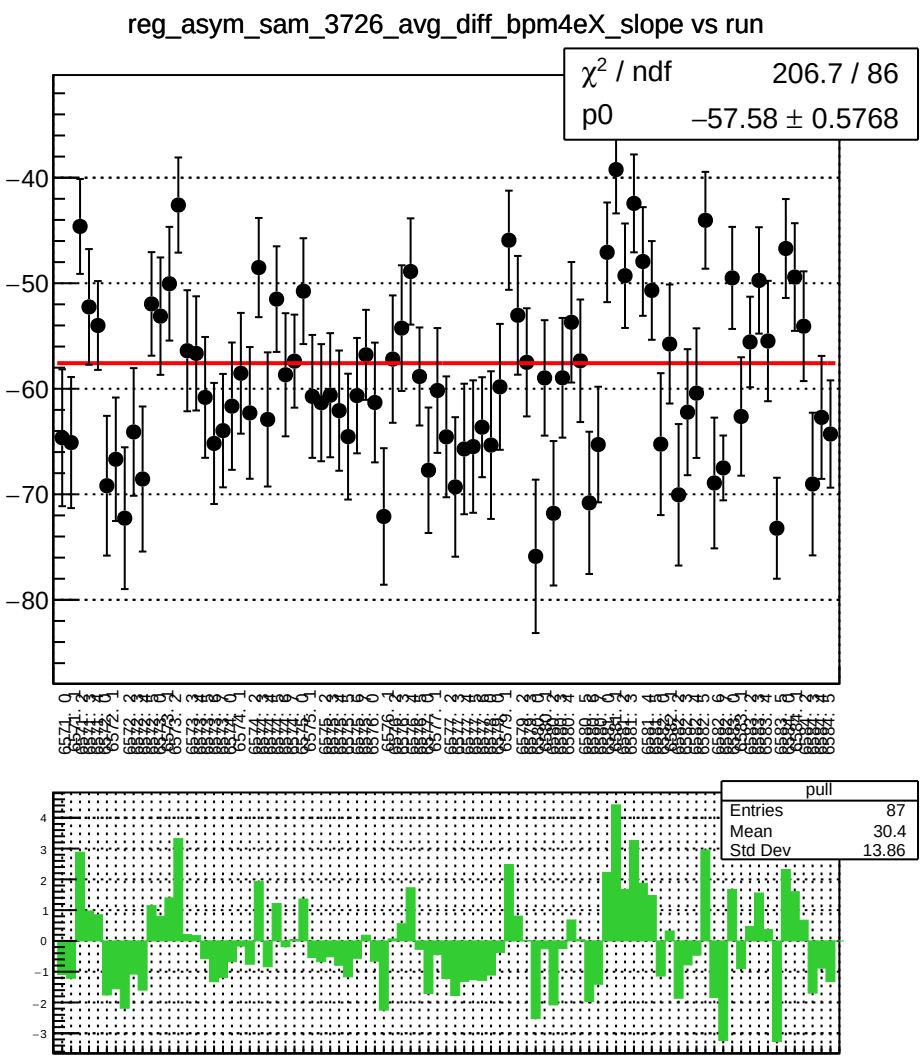

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 19.51 / 86
p0 0.4262 ± 0.0122
pull
Entries 87
Mean 345
Std Dev 0

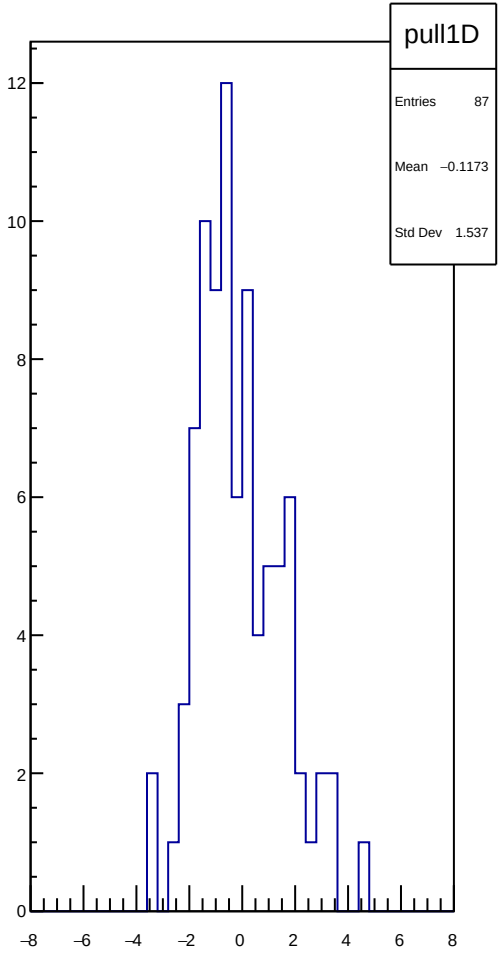

pull1D
Entries 87
Mean 0.01058
Std Dev 0.4734

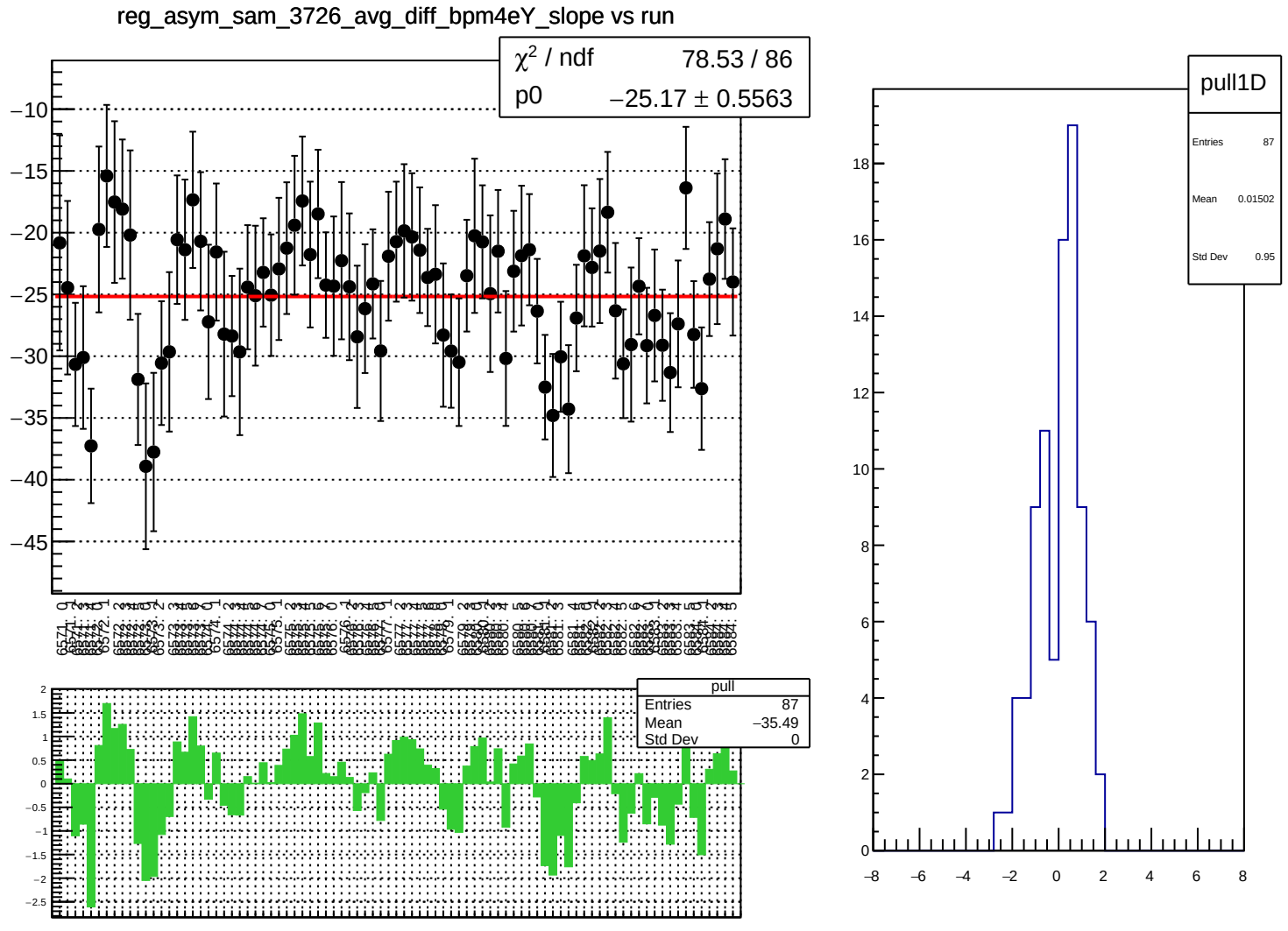

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 239.5 / 86
p0 −20.21 ± 0.561
pull
Entries 87
Mean 52.19
Std Dev 0
pull1D
Entries 87
Mean 0.1039
Std Dev 1.656

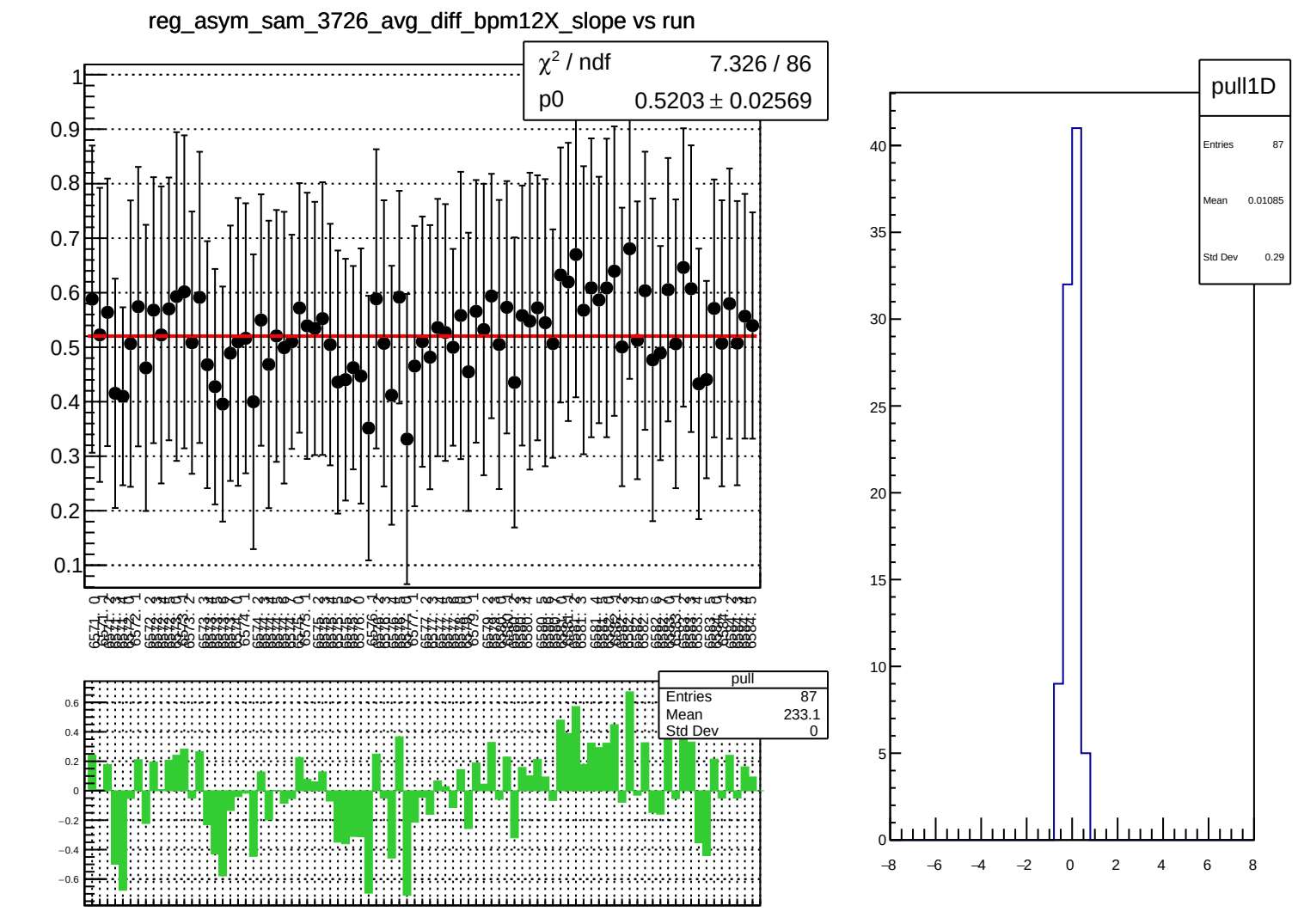

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.94 / 86
p0 10.25 ± 0.4614
pull
Entries 87
Mean 17.09
Std Dev 0

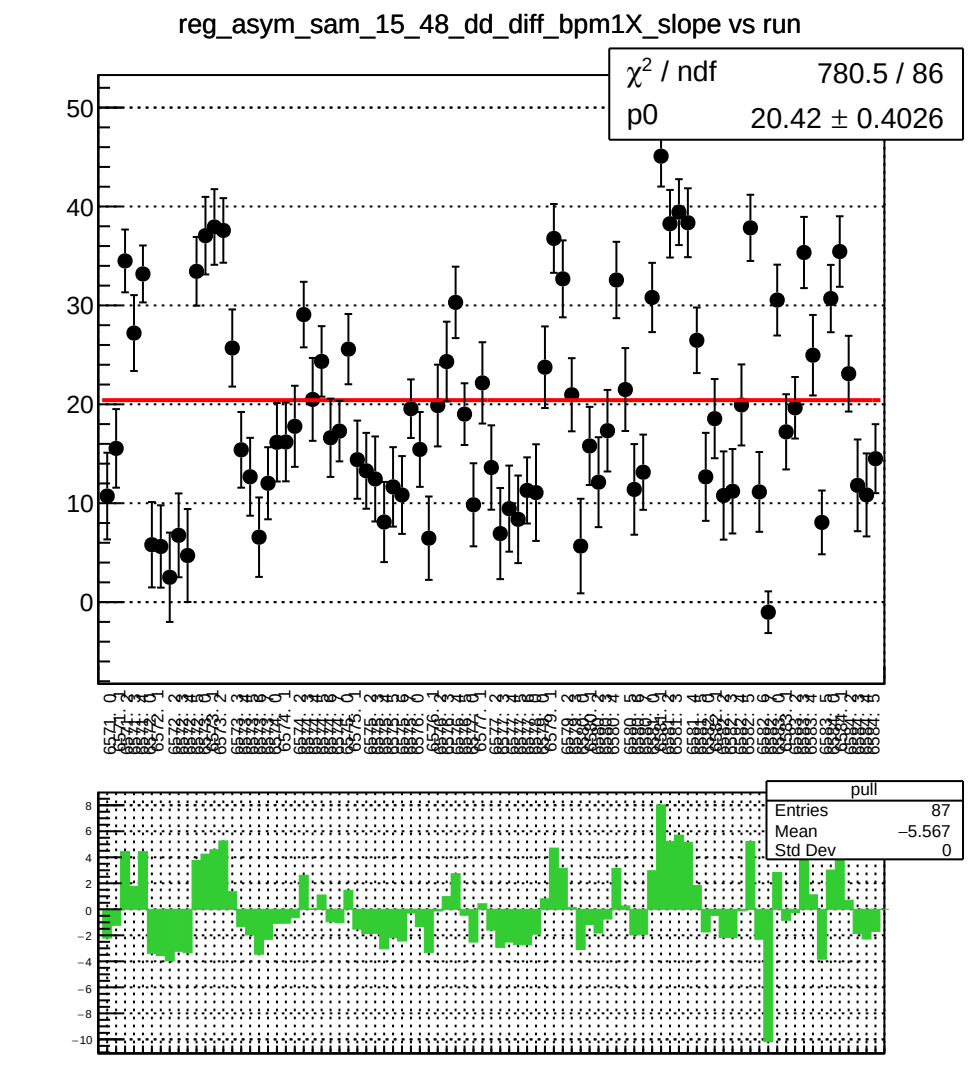

pull1D
Entries 87
Mean −0.02377
Std Dev 1.011

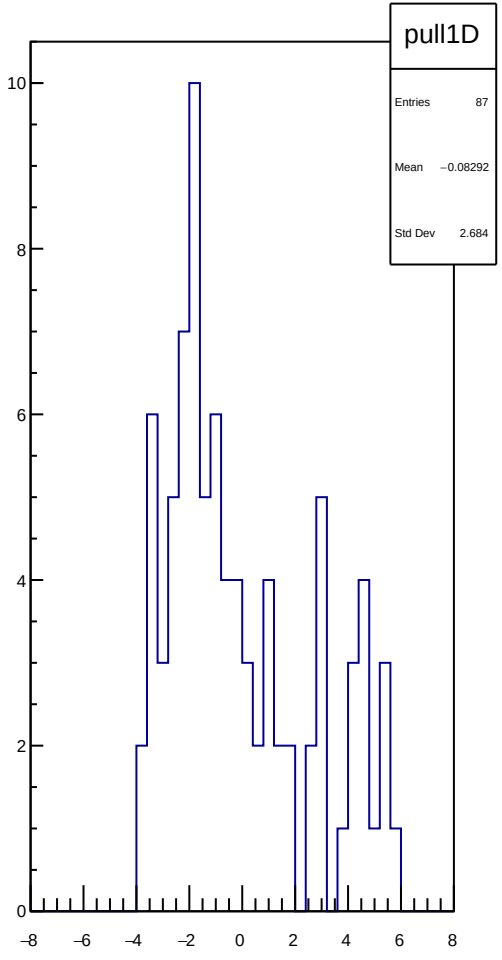

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 206.7 / 86
p0 −57.58 ± 0.5768
pull
Entries 87
Mean 30.4
Std Dev 13.86

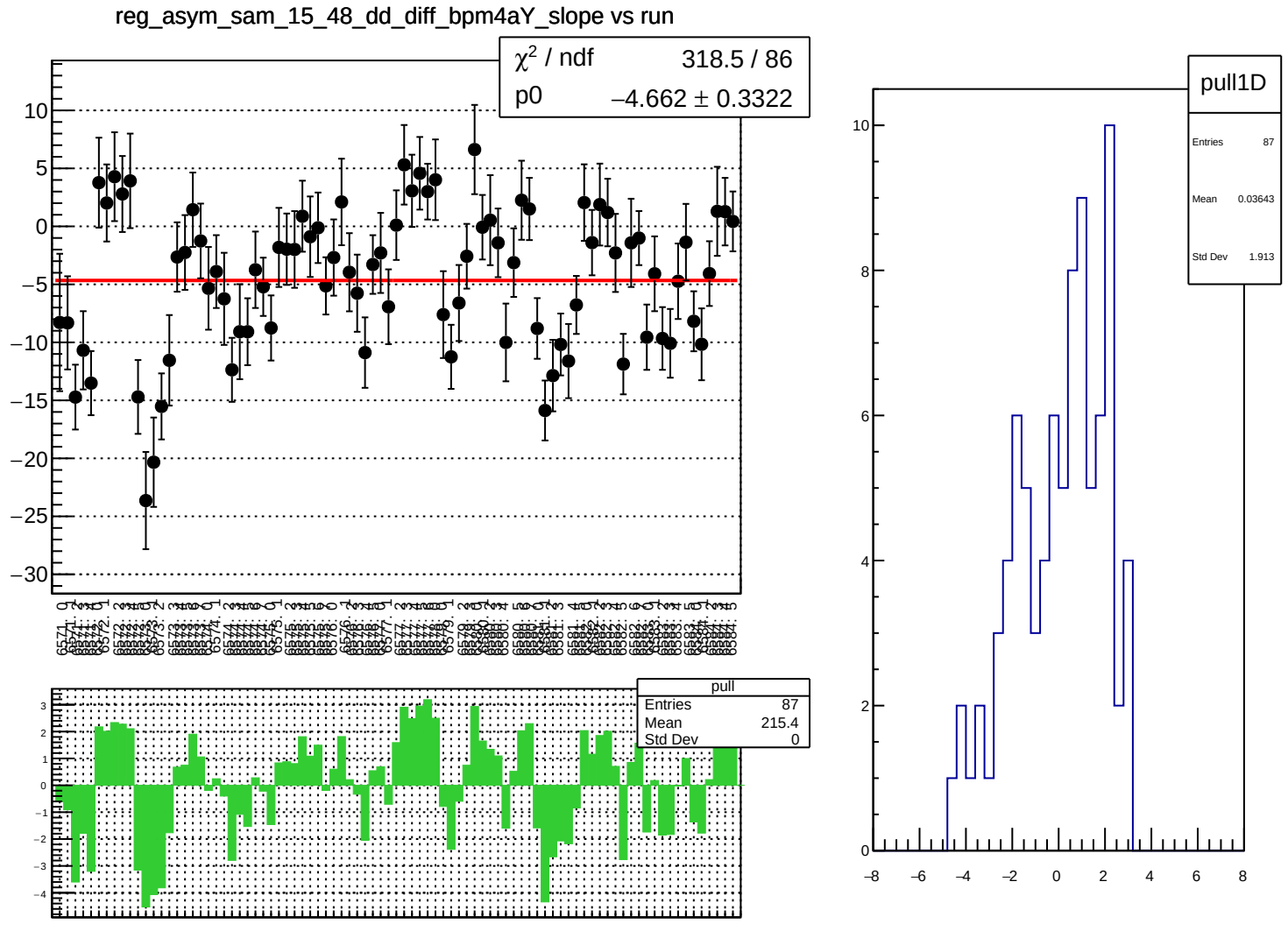

pull1D
Entries 87
Mean −0.1173
Std Dev 1.537

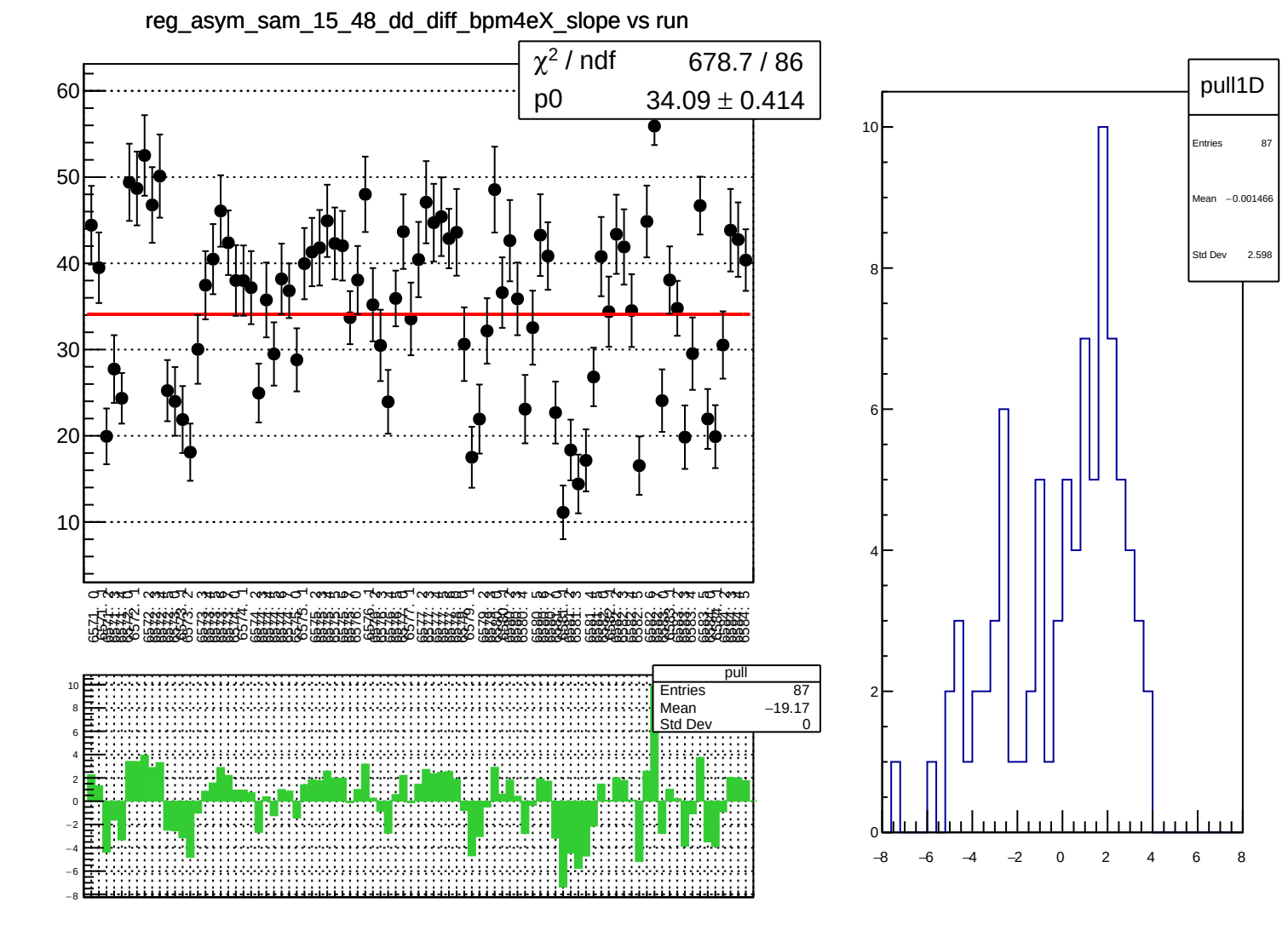

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 78.53 / 86
p0 −25.17 ± 0.5563
pull
Entries 87
Mean −35.49
Std Dev 0
pull1D
Entries 87
Mean 0.01502
Std Dev 0.95

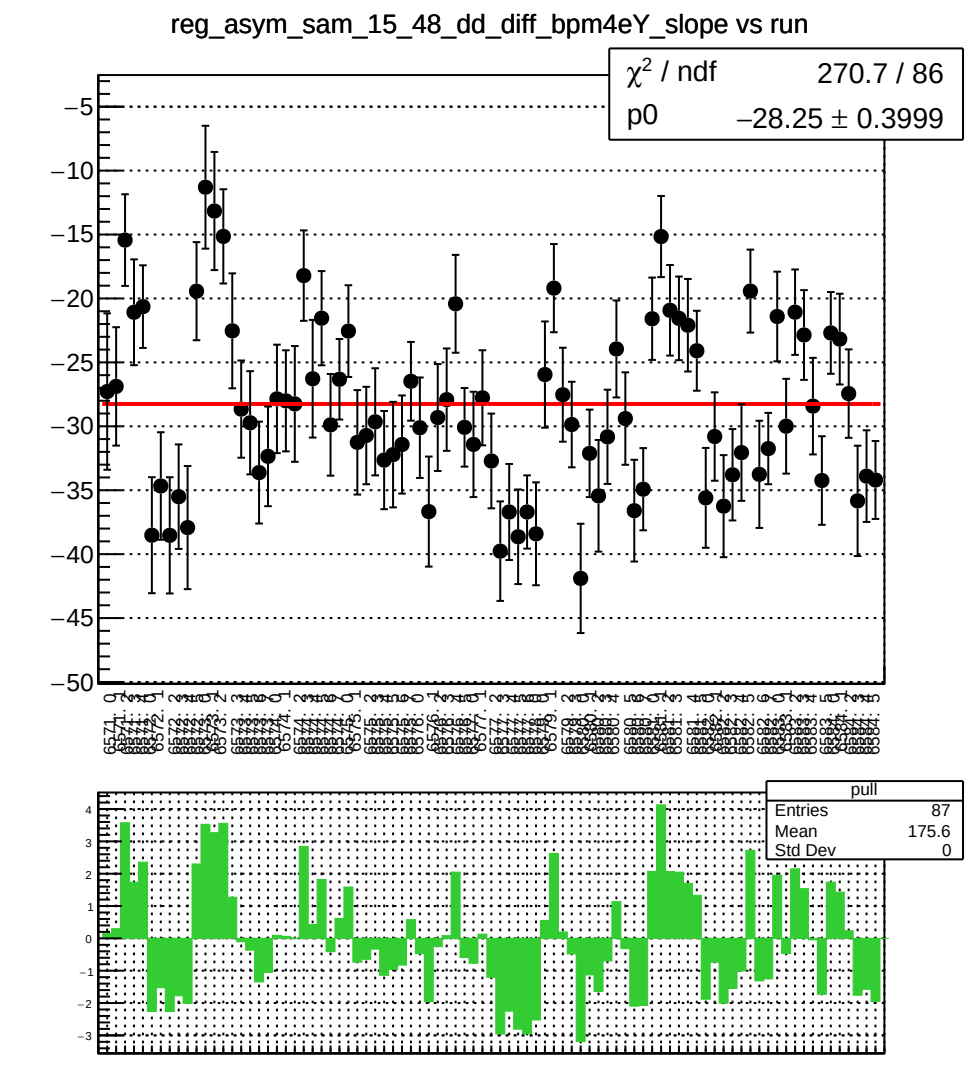

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 7.326 / 86
p0 0.5203 ± 0.02569
pull
Entries 87
Mean 233.1
Std Dev 0
pull1D
Entries 87
Mean 0.01085
Std Dev 0.29

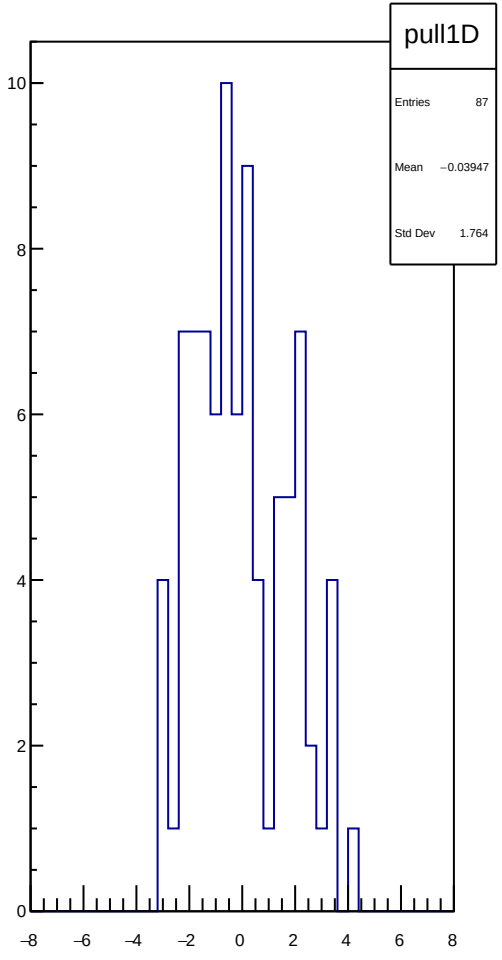

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 780.5 / 86
p0 20.42 ± 0.4026
pull
Entries 87
Mean −5.567
Std Dev 0

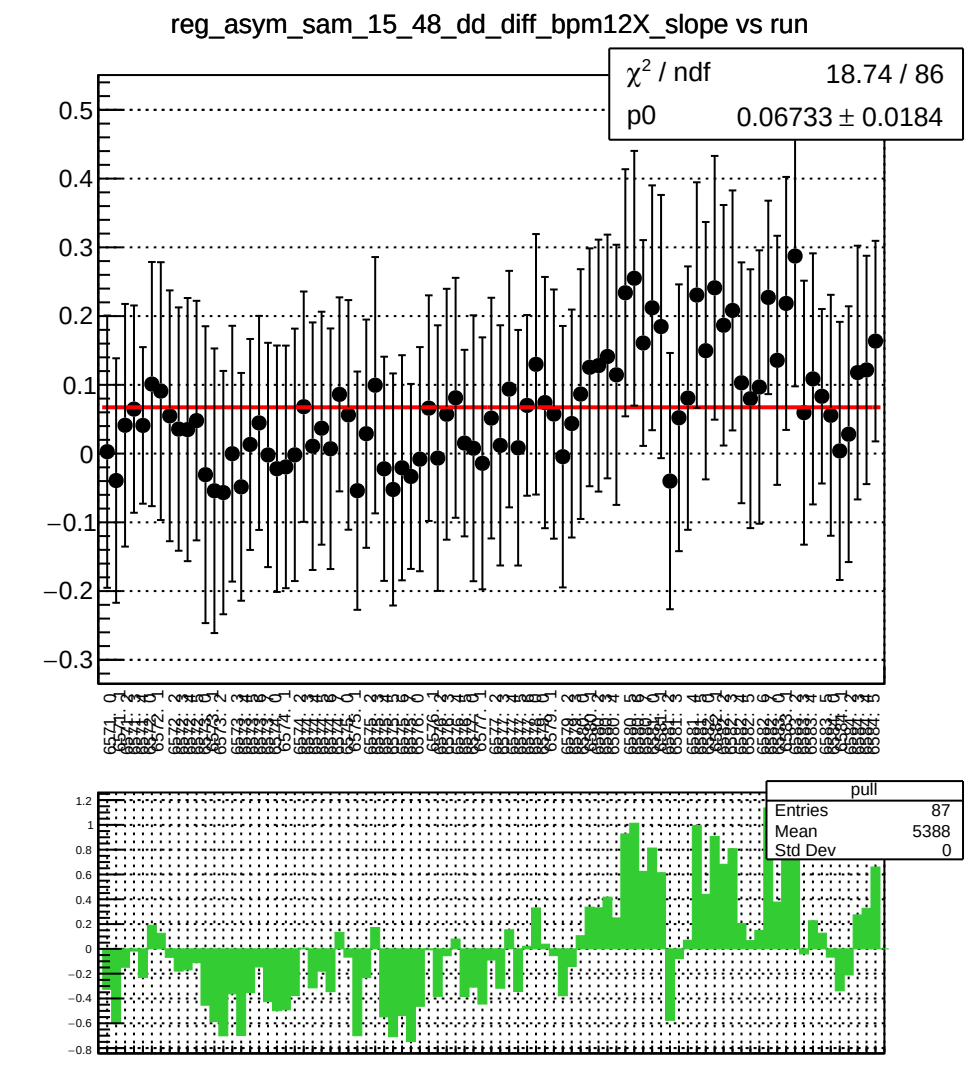

pull1D
Entries 87
Mean −0.08292
Std Dev 2.684

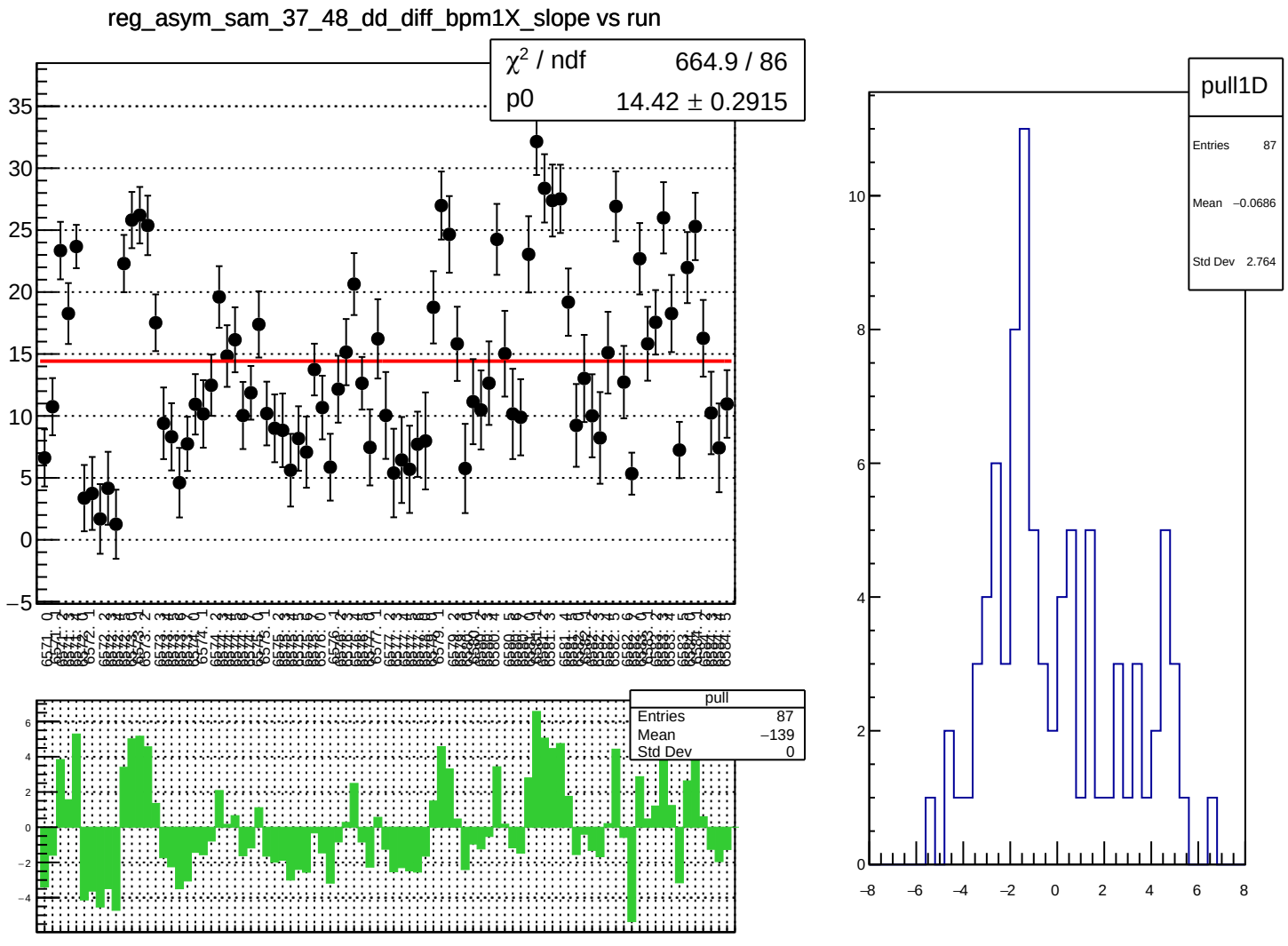

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 318.5 / 86
p0 −4.662 ± 0.3322
pull
Entries 87
Mean 215.4
Std Dev 0
pull1D
Entries 87
Mean 0.03643
Std Dev 1.913

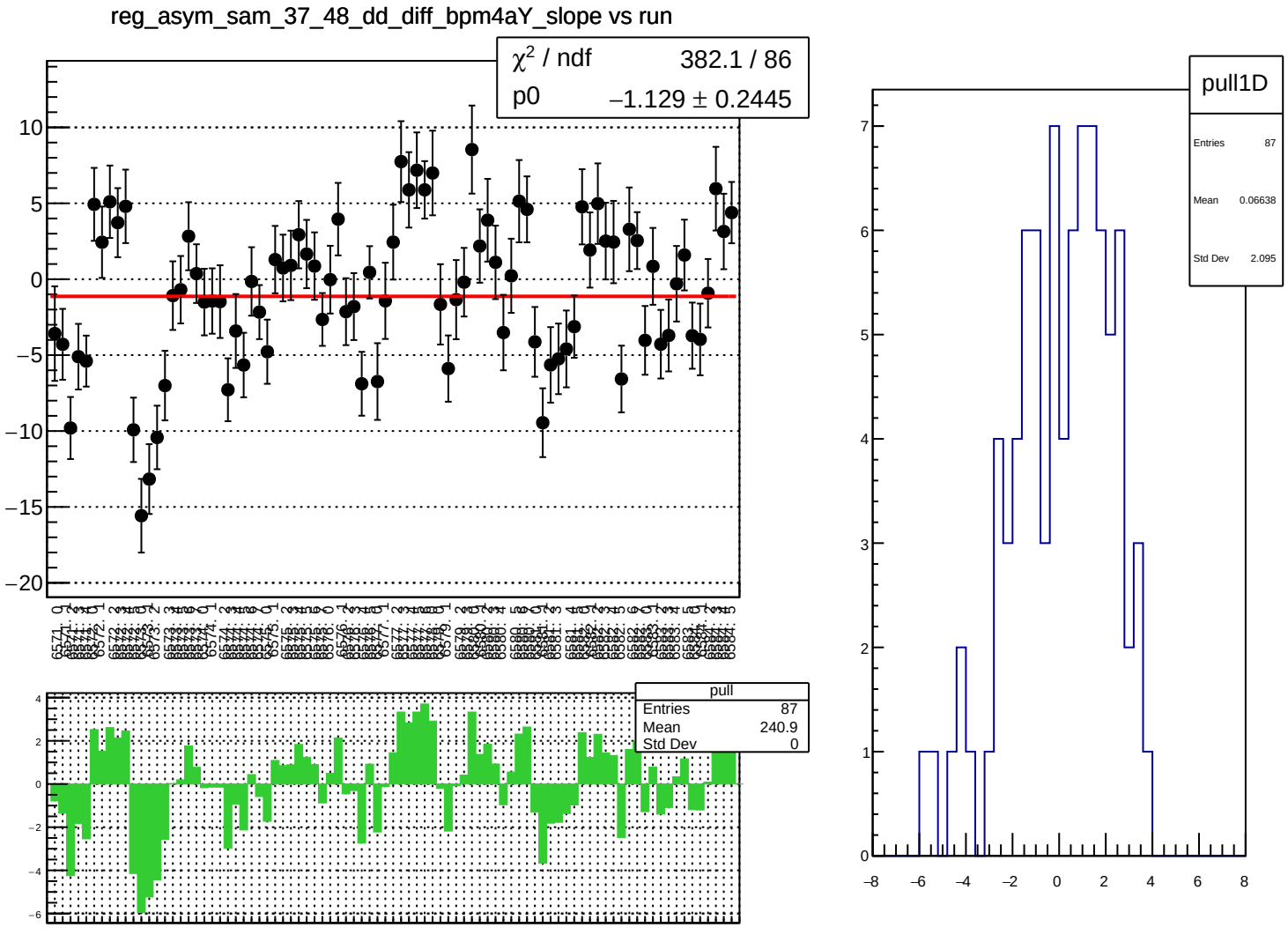

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 678.7 / 86
p0 34.09 ± 0.414
pull
Entries 87
Mean −19.17
Std Dev 0
pull1D
Entries 87
Mean −0.001466
Std Dev 2.598

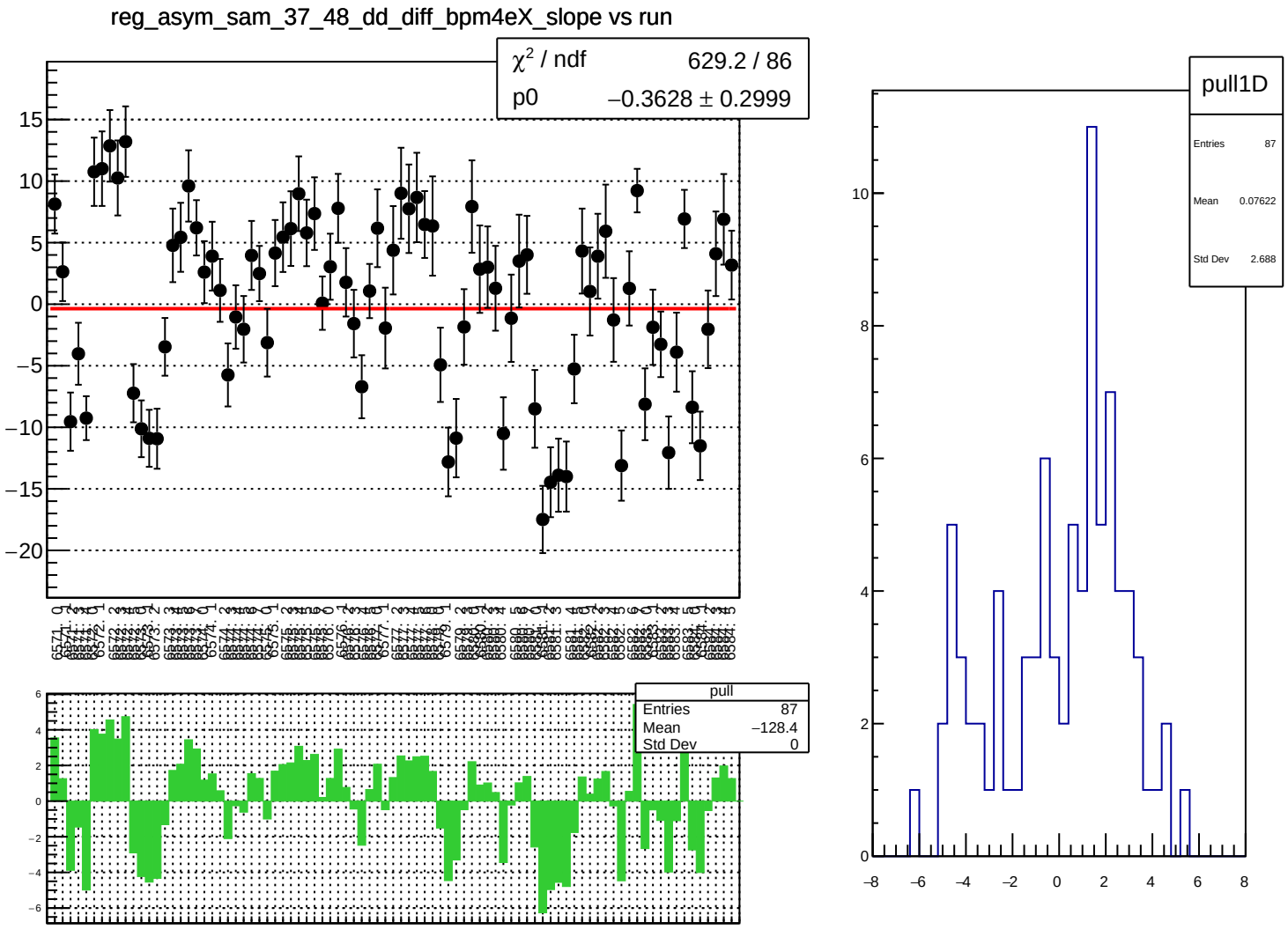

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 270.7 / 86
p0 −28.25 ± 0.3999
pull
Entries 87
Mean 175.6
Std Dev 0

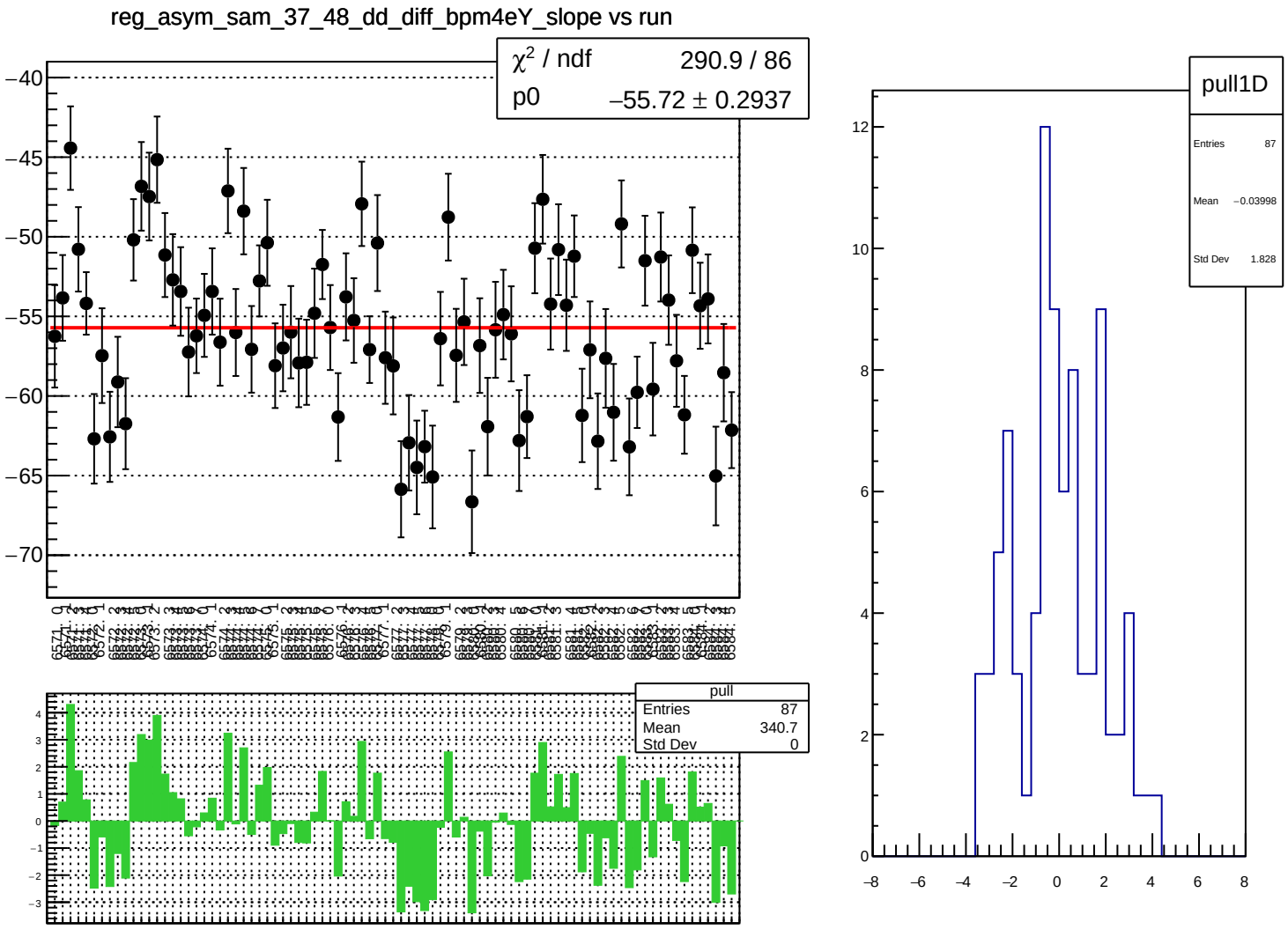

pull1D
Entries 87
Mean −0.03947
Std Dev 1.764

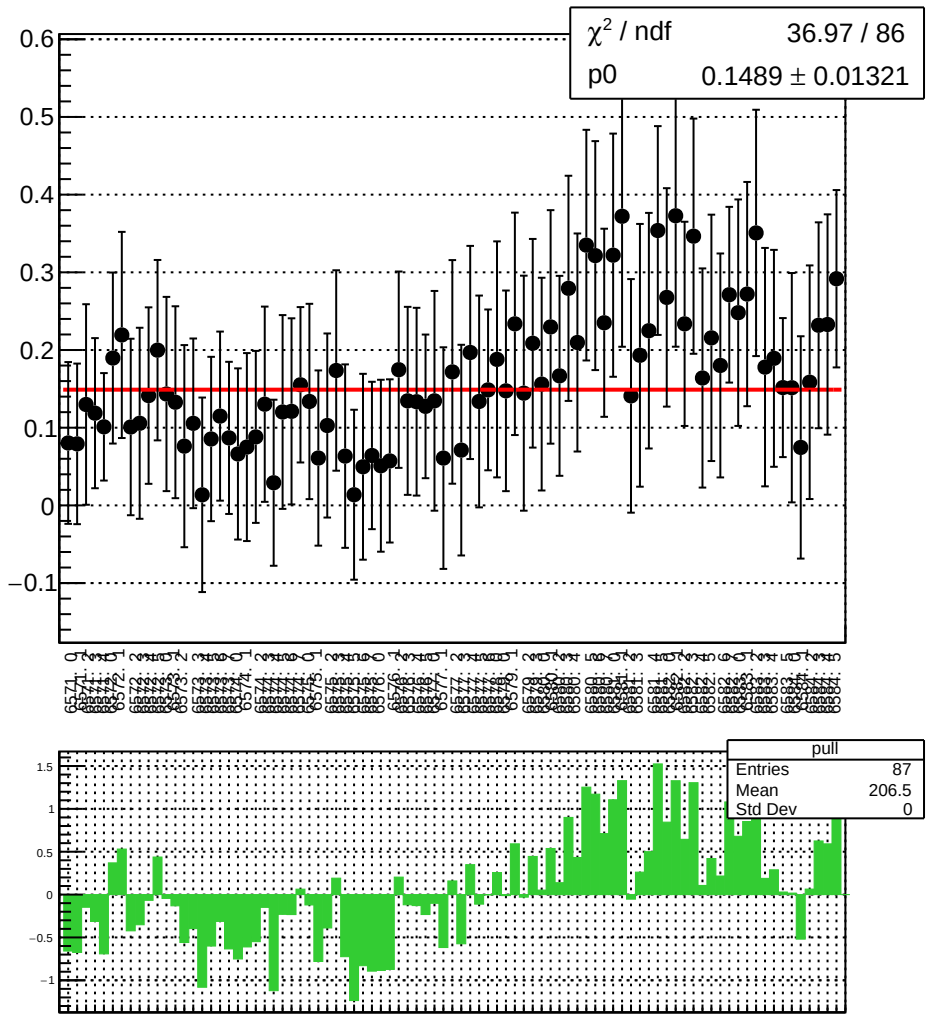

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 18.74 / 86
p0 0.06733 ± 0.0184
pull
Entries 87
Mean 5388
Std Dev 0
pull1D
Entries 87
Mean 0.001275
Std Dev 0.4641

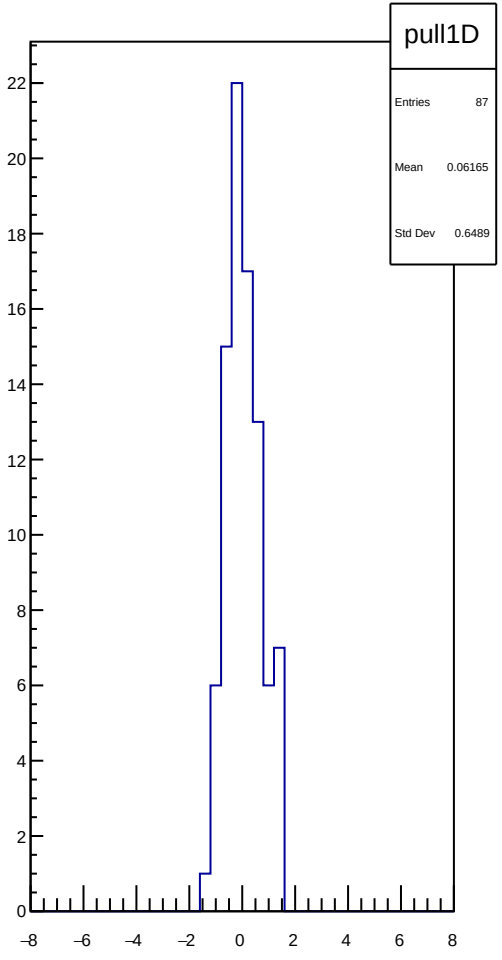

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 664.9 / 86
p0 14.42 ± 0.2915
pull
Entries 87
Mean −139
Std Dev 0
pull1D
Entries 87
Mean −0.0686
Std Dev 2.764

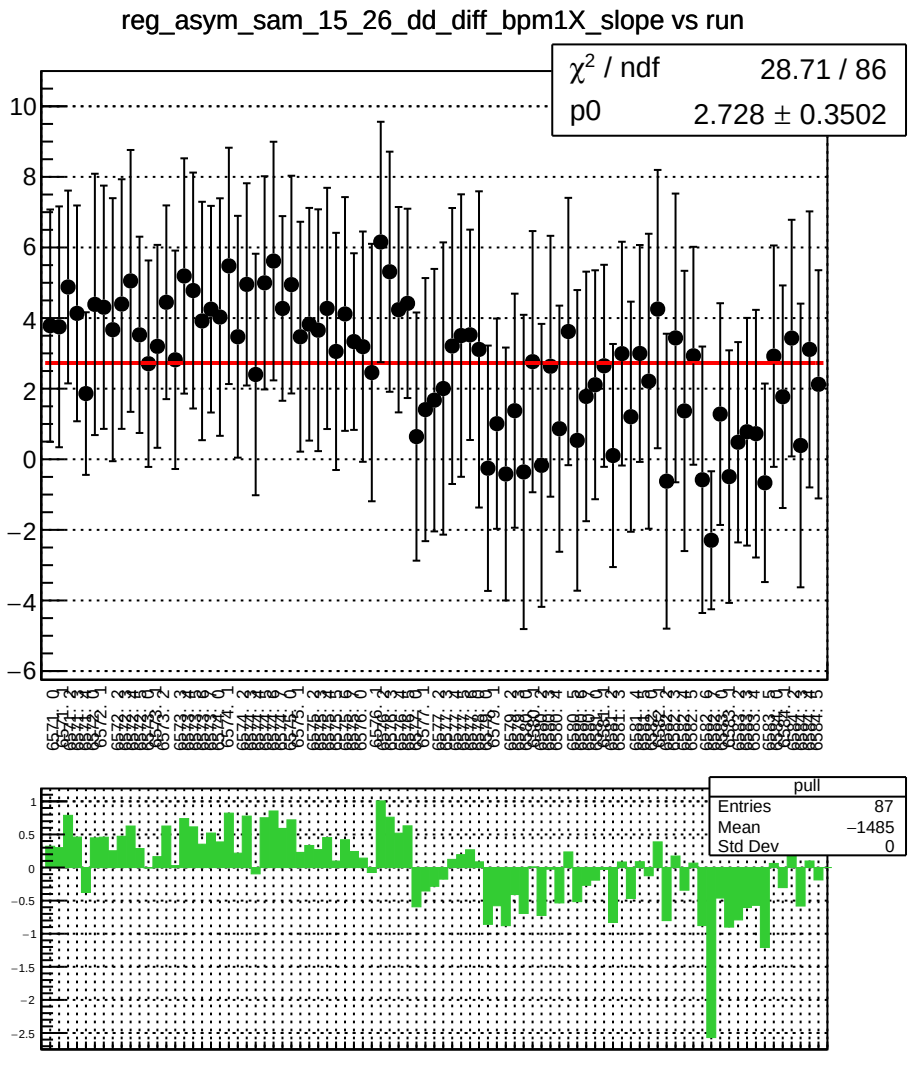

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 382.1 / 86
p0 −1.129 ± 0.2445
pull
Entries 87
Mean 240.9
Std Dev 0
pull1D
Entries 87
Mean 0.06638
Std Dev 2.095

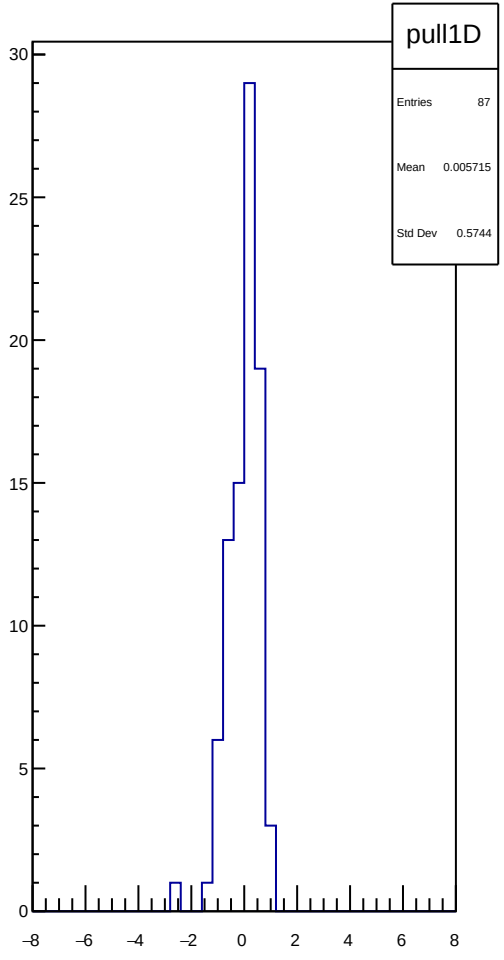

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 629.2 / 86
p0 −0.3628 ± 0.2999
pull
Entries 87
Mean −128.4
Std Dev 0
pull1D
Entries 87
Mean 0.07622
Std Dev 2.688

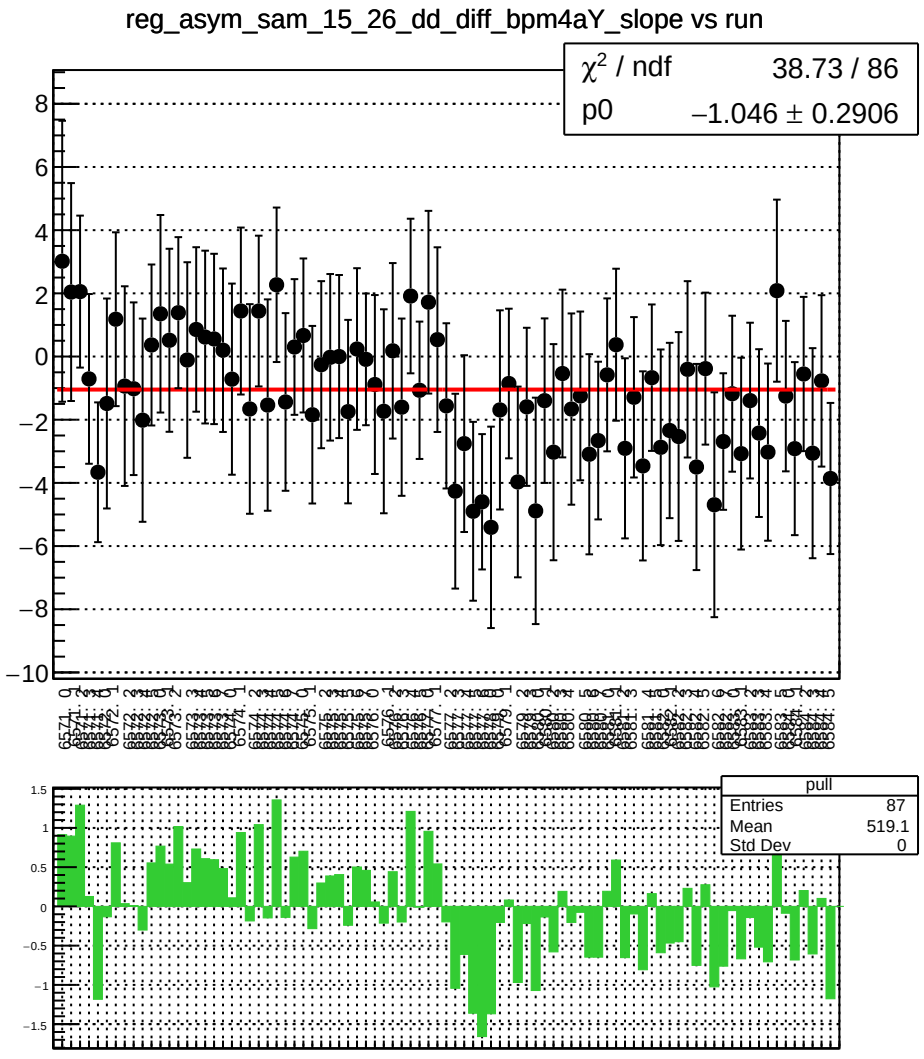

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 290.9 / 86
p0 −55.72 ± 0.2937
pull
Entries 87
Mean 340.7
Std Dev 0
pull1D
Entries 87
Mean −0.03998
Std Dev 1.828

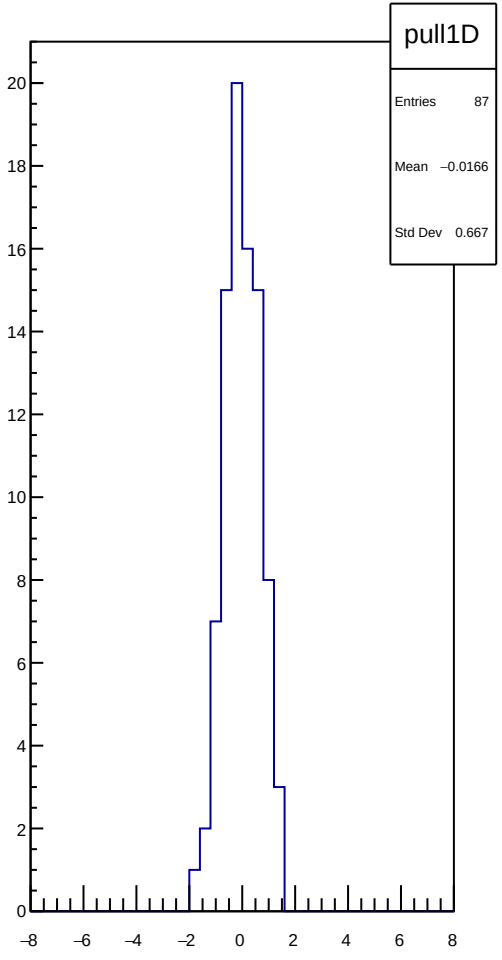

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 36.97 / 86
p0 0.1489 ± 0.01321
pull
Entries 87
Mean 206.5
Std Dev 0

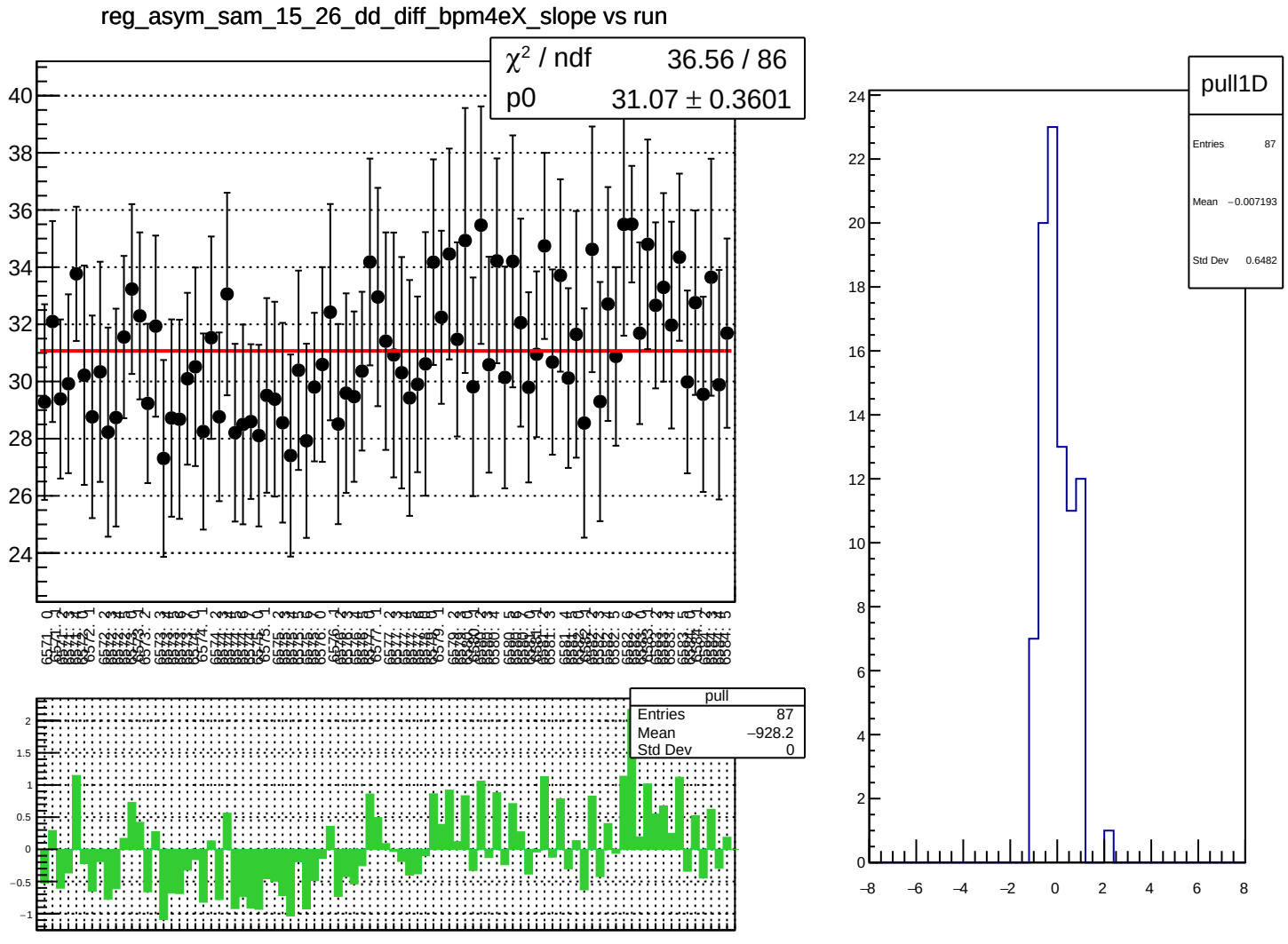

pull1D
Entries 87
Mean 0.06165
Std Dev 0.6489

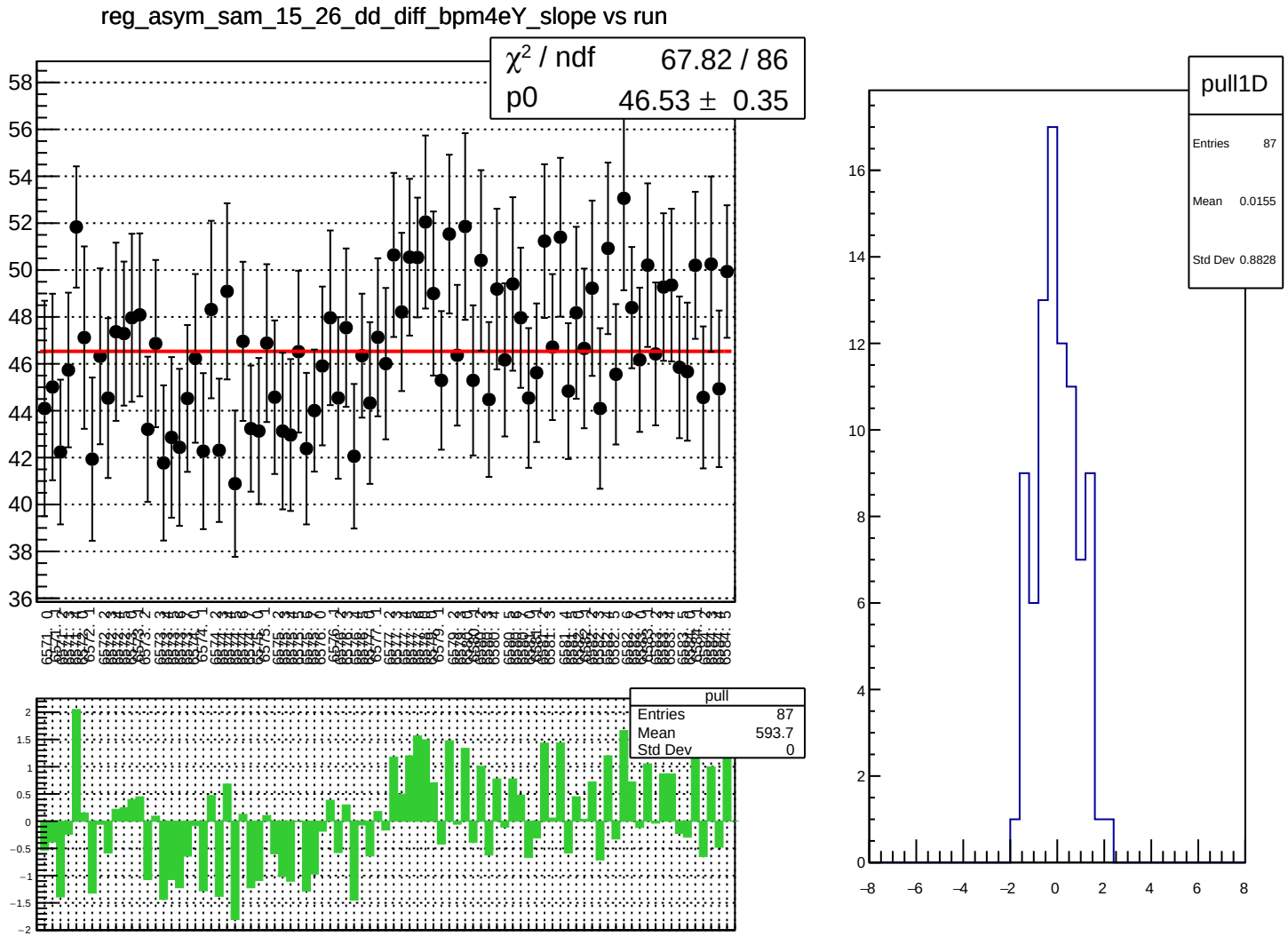

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 28.71 / 86
p0 2.728 ± 0.3502
pull
Entries 87
Mean −1485
Std Dev 0

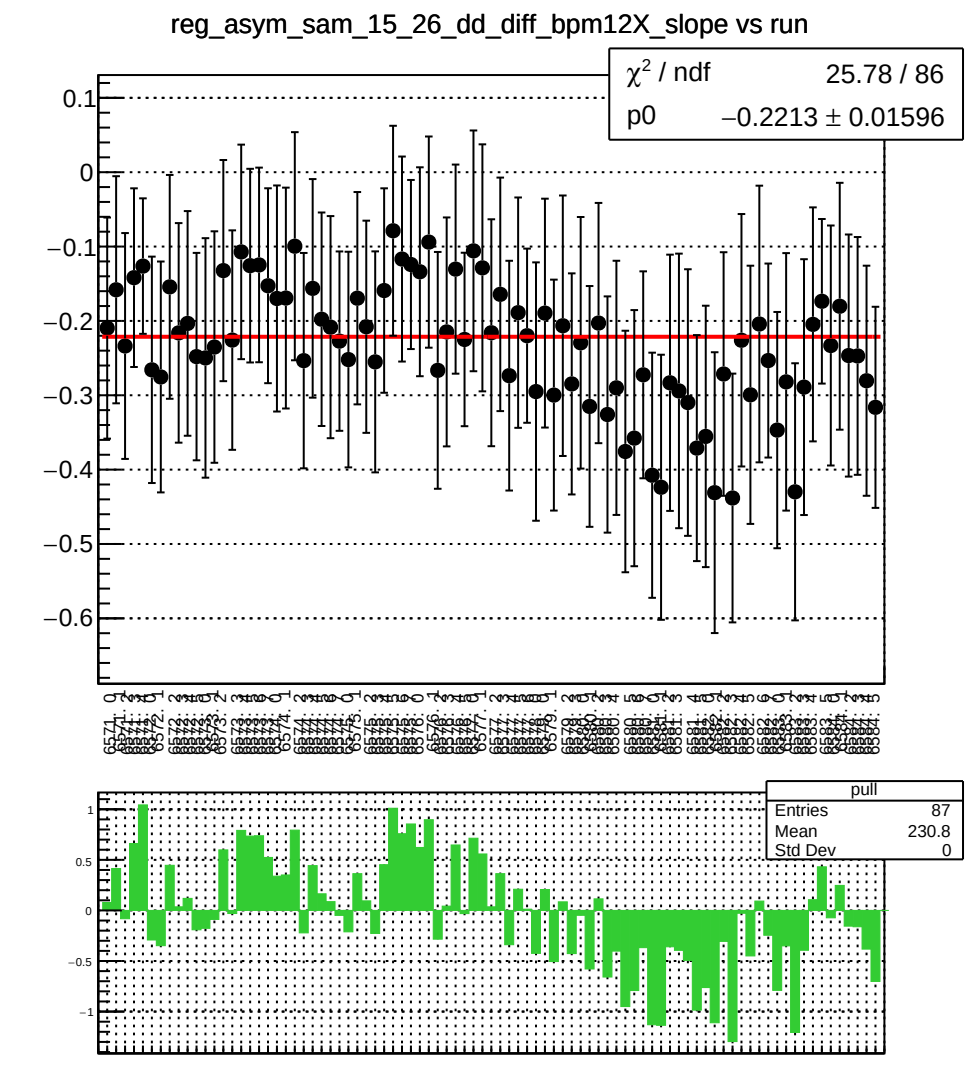

pull1D
Entries 87
Mean 0.005715
Std Dev 0.5744

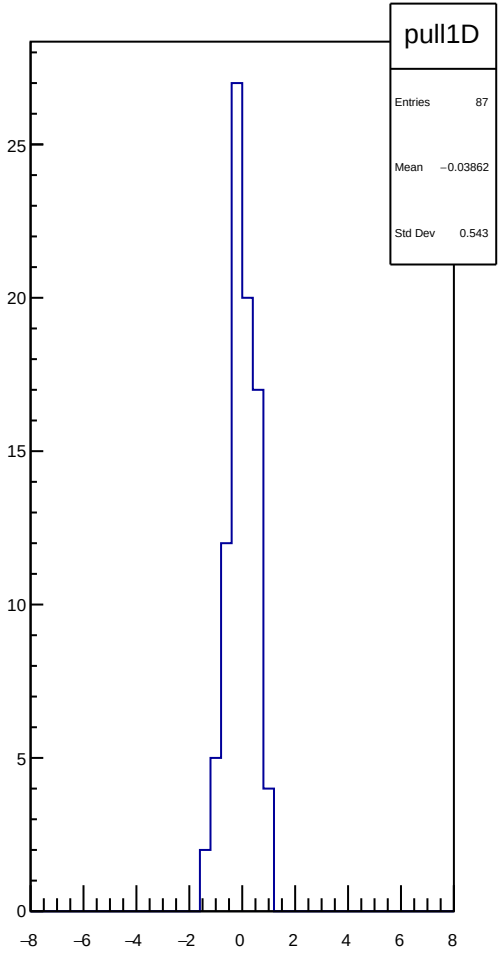

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.73 / 86
p0 −1.046 ± 0.2906
pull
Entries 87
Mean 519.1
Std Dev 0

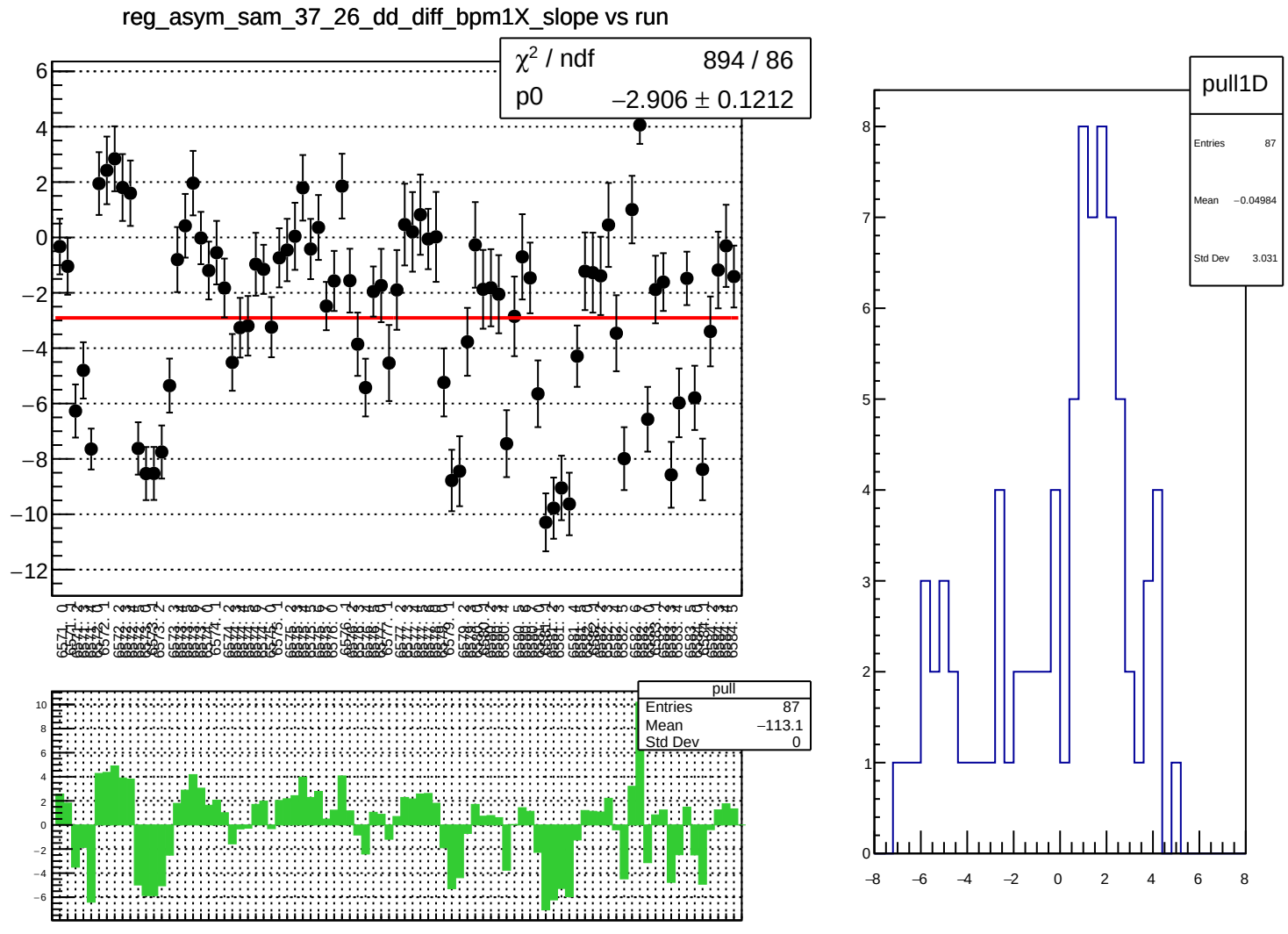

pull1D
Entries 87
Mean −0.0166
Std Dev 0.667

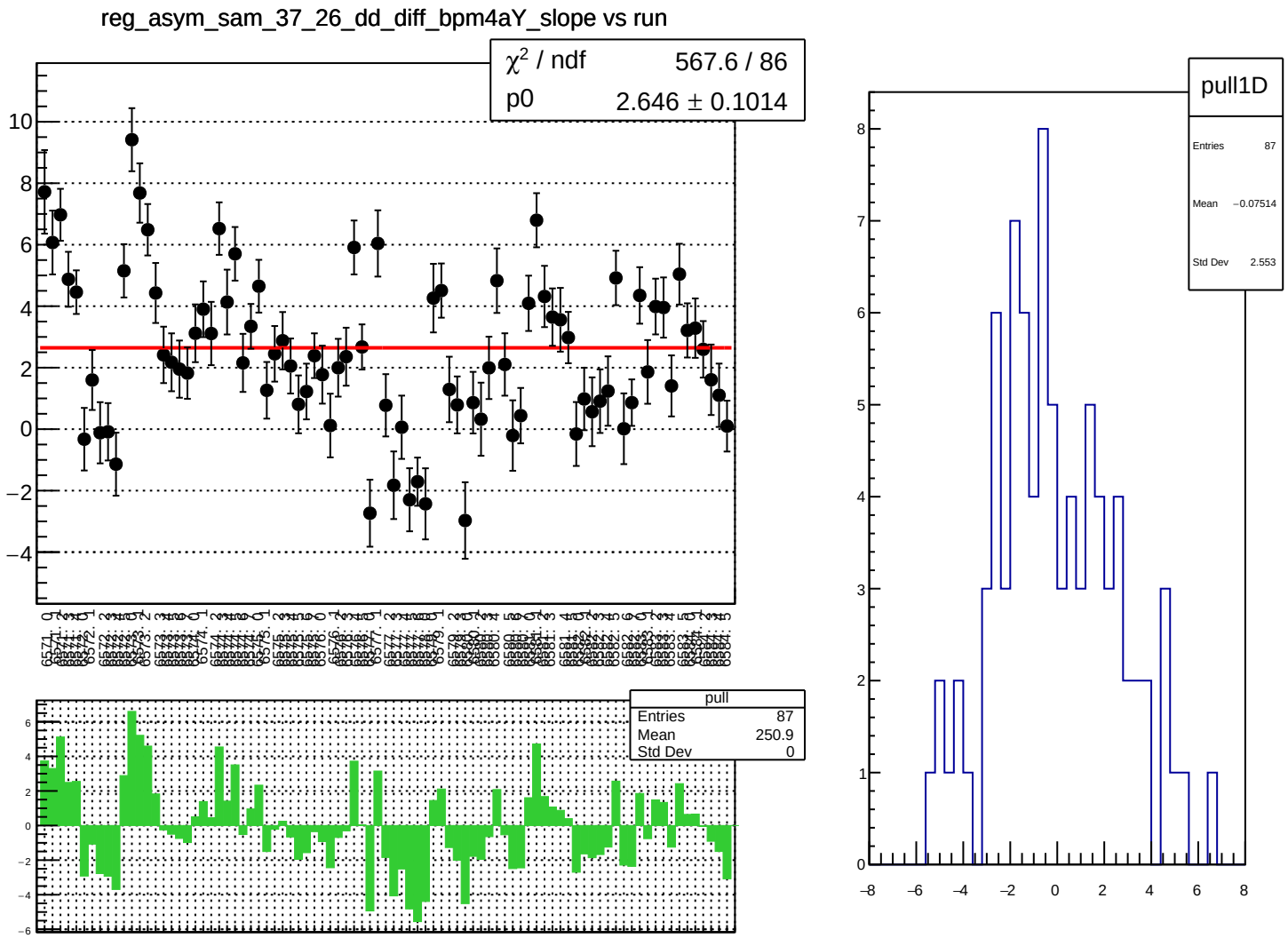

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.56 / 86
p0 31.07 ± 0.3601
pull
Entries 87
Mean −928.2
Std Dev 0
pull1D
Entries 87
Mean −0.007193
Std Dev 0.6482

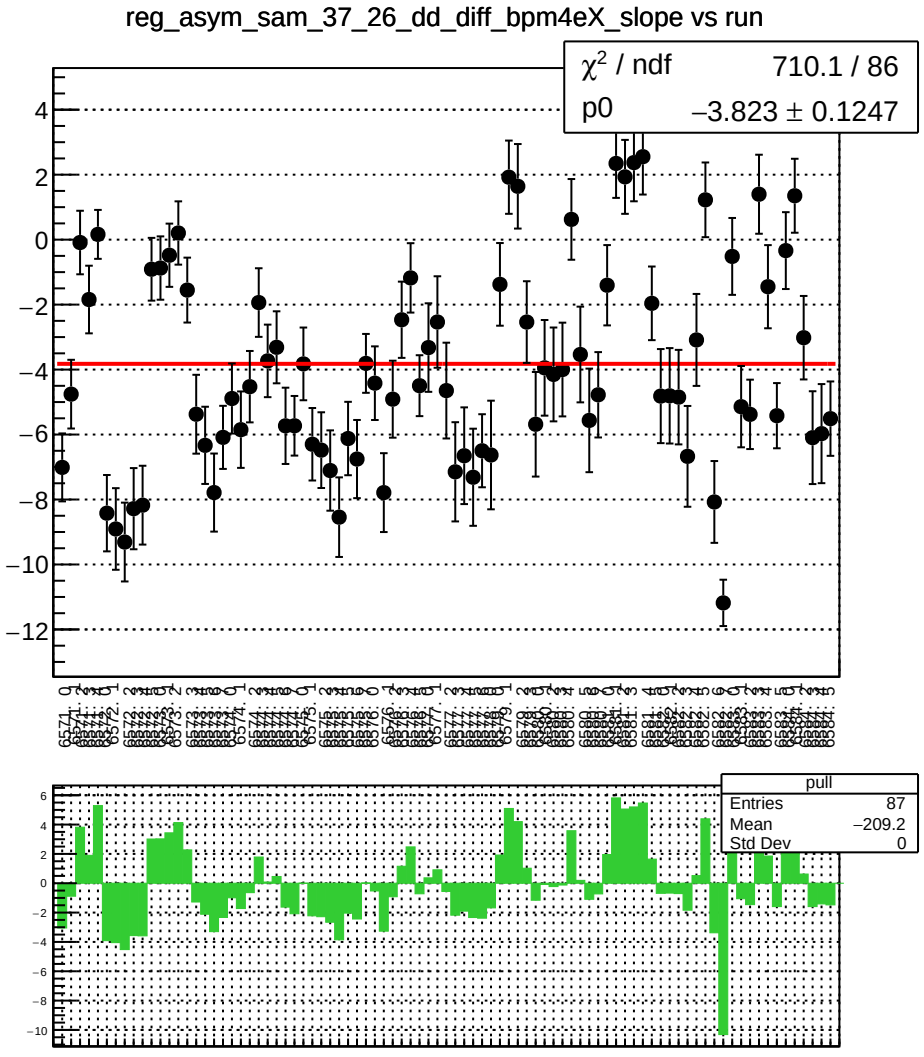

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.82 / 86
p0 46.53 ± 0.35
pull
Entries 87
Mean 593.7
Std Dev 0
pull1D
Entries 87
Mean 0.0155
Std Dev 0.8828

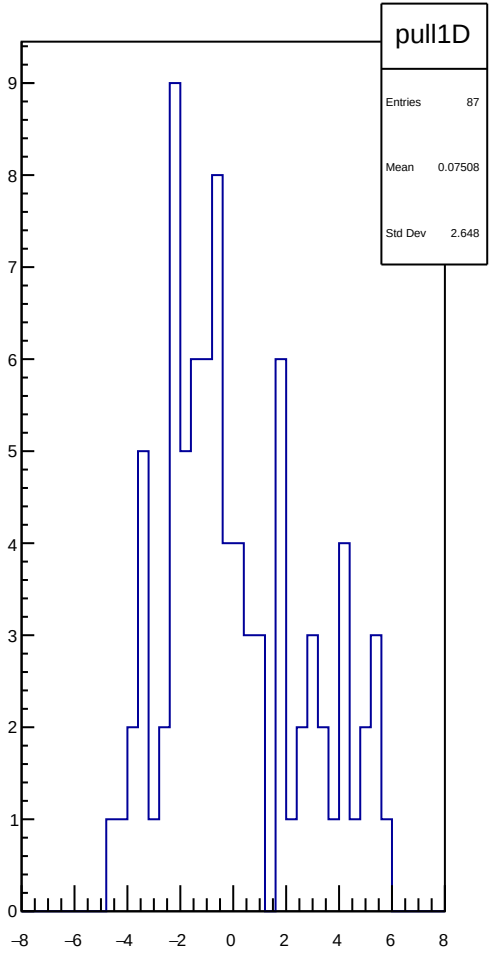

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 25.78 / 86
p0 −0.2213 ± 0.01596
pull
Entries 87
Mean 230.8
Std Dev 0

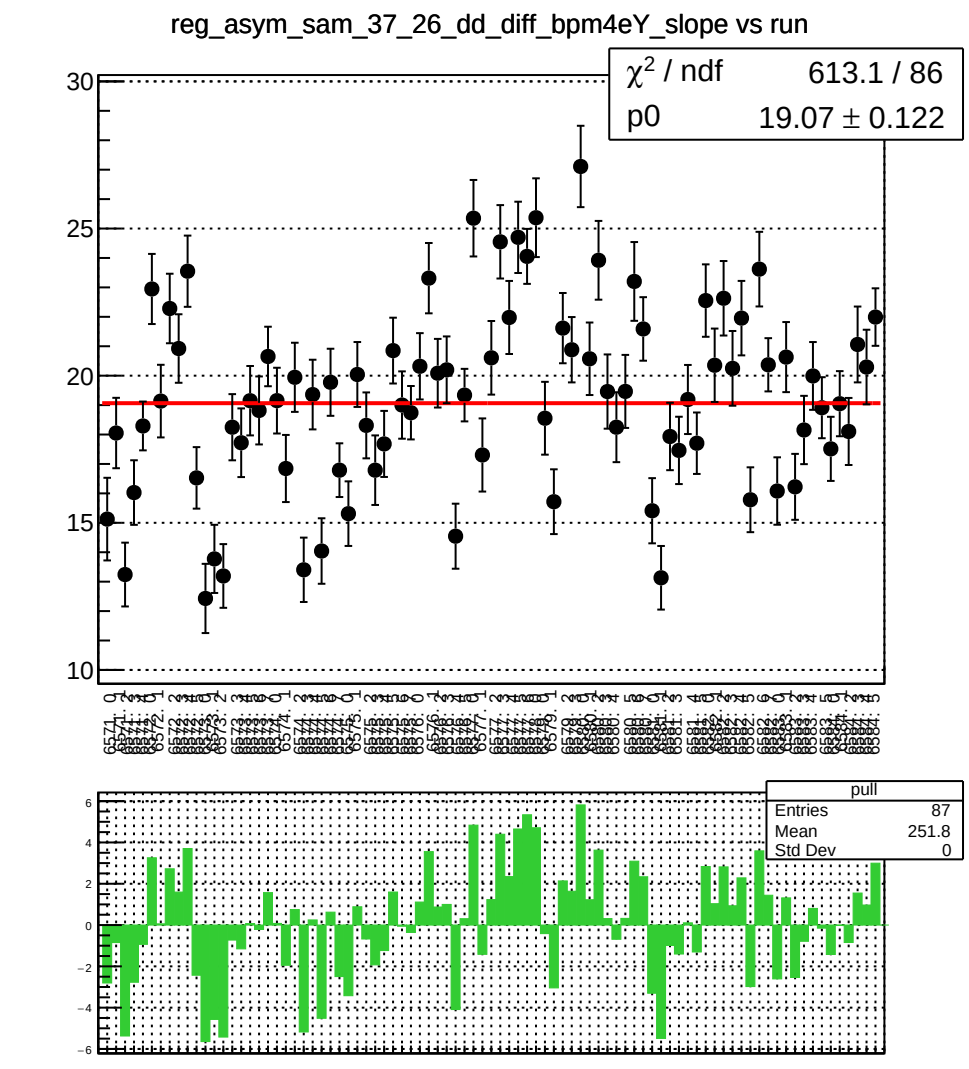

pull1D
Entries 87
Mean −0.03862
Std Dev 0.543

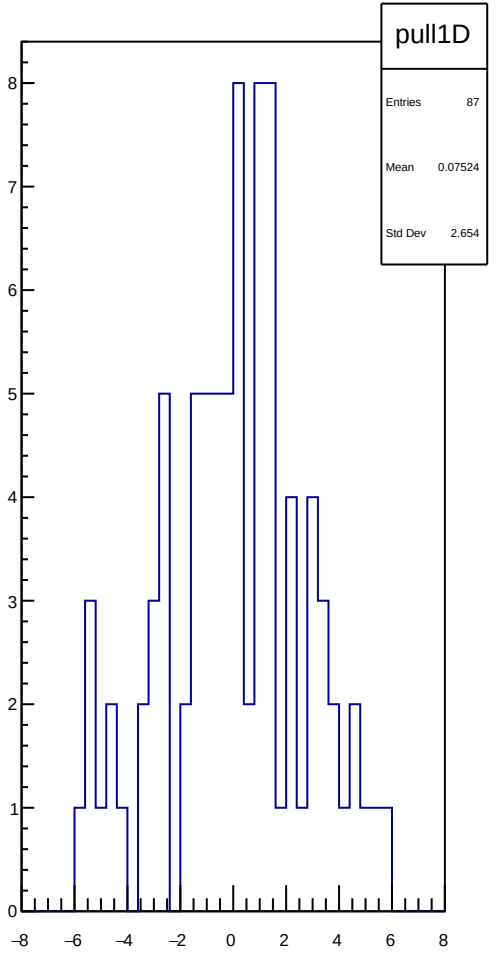

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 894 / 86
p0 −2.906 ± 0.1212
pull
Entries 87
Mean −113.1
Std Dev 0
pull1D
Entries 87
Mean −0.04984
Std Dev 3.031

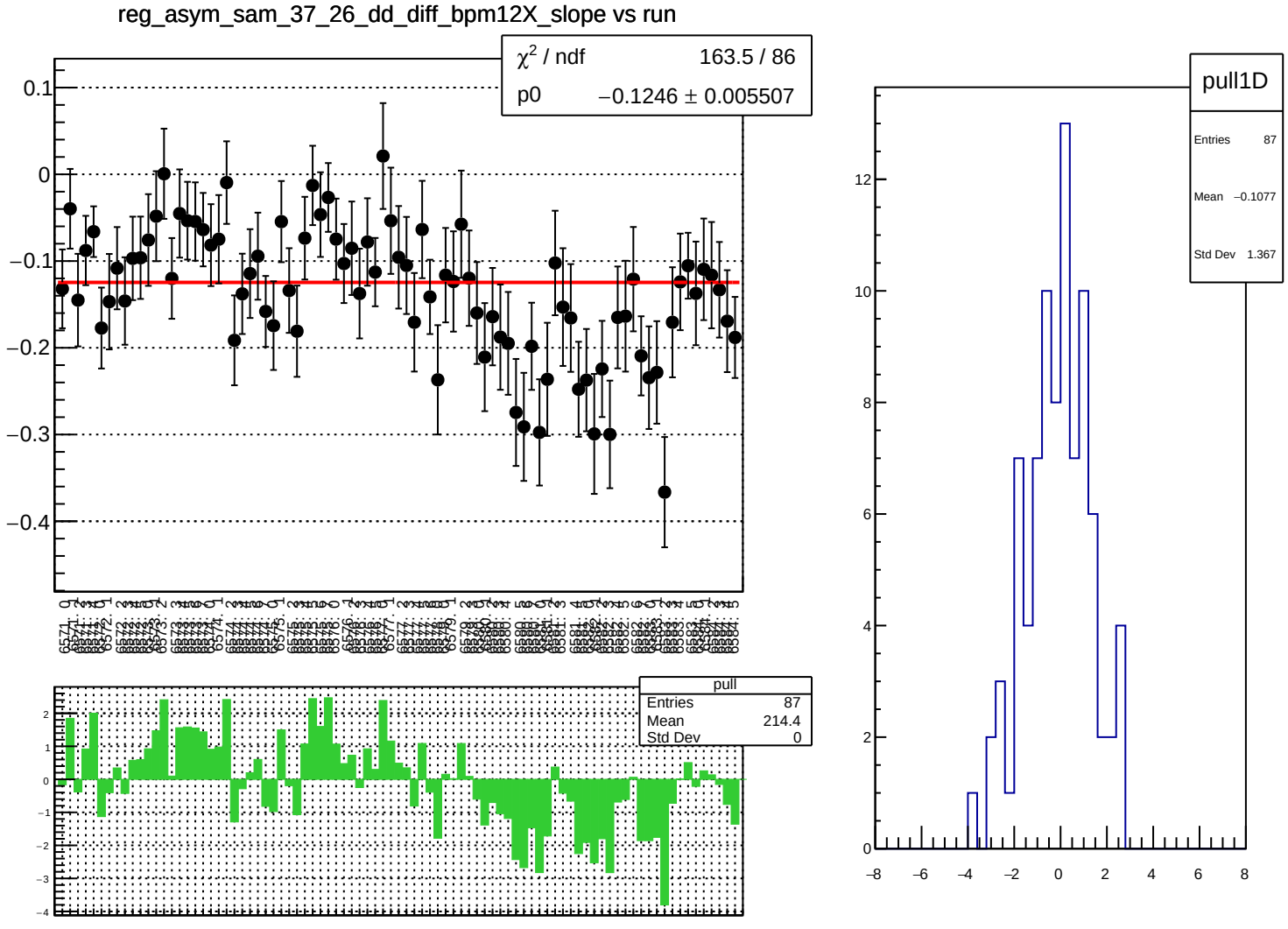

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 567.6 / 86
p0 2.646 ± 0.1014
pull
Entries 87
Mean 250.9
Std Dev 0
pull1D
Entries 87
Mean −0.07514
Std Dev 2.553

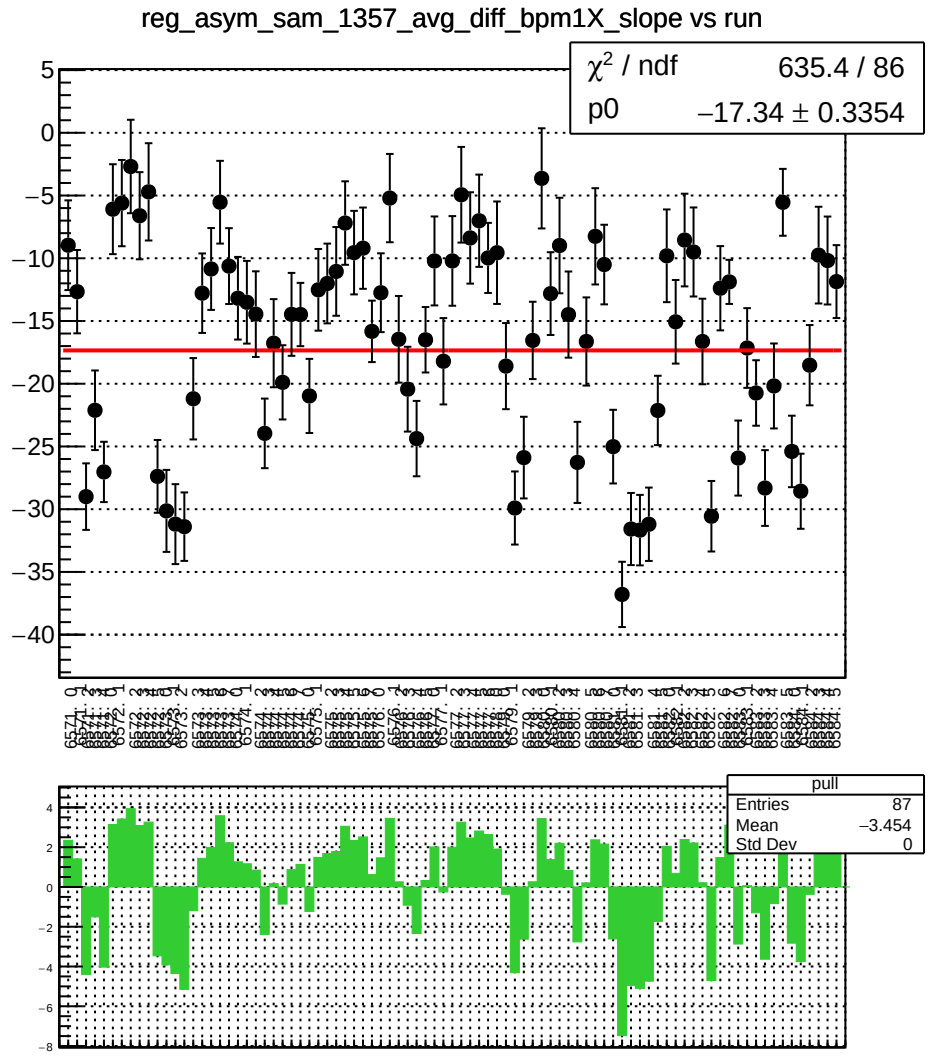

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 710.1 / 86
p0 −3.823 ± 0.1247
pull
Entries 87
Mean −209.2
Std Dev 0

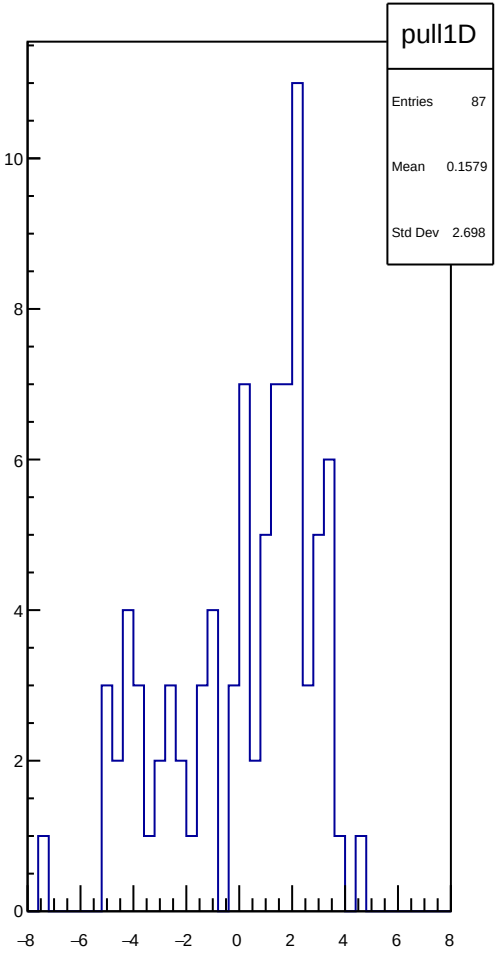

pull1D
Entries 87
Mean 0.07508
Std Dev 2.648

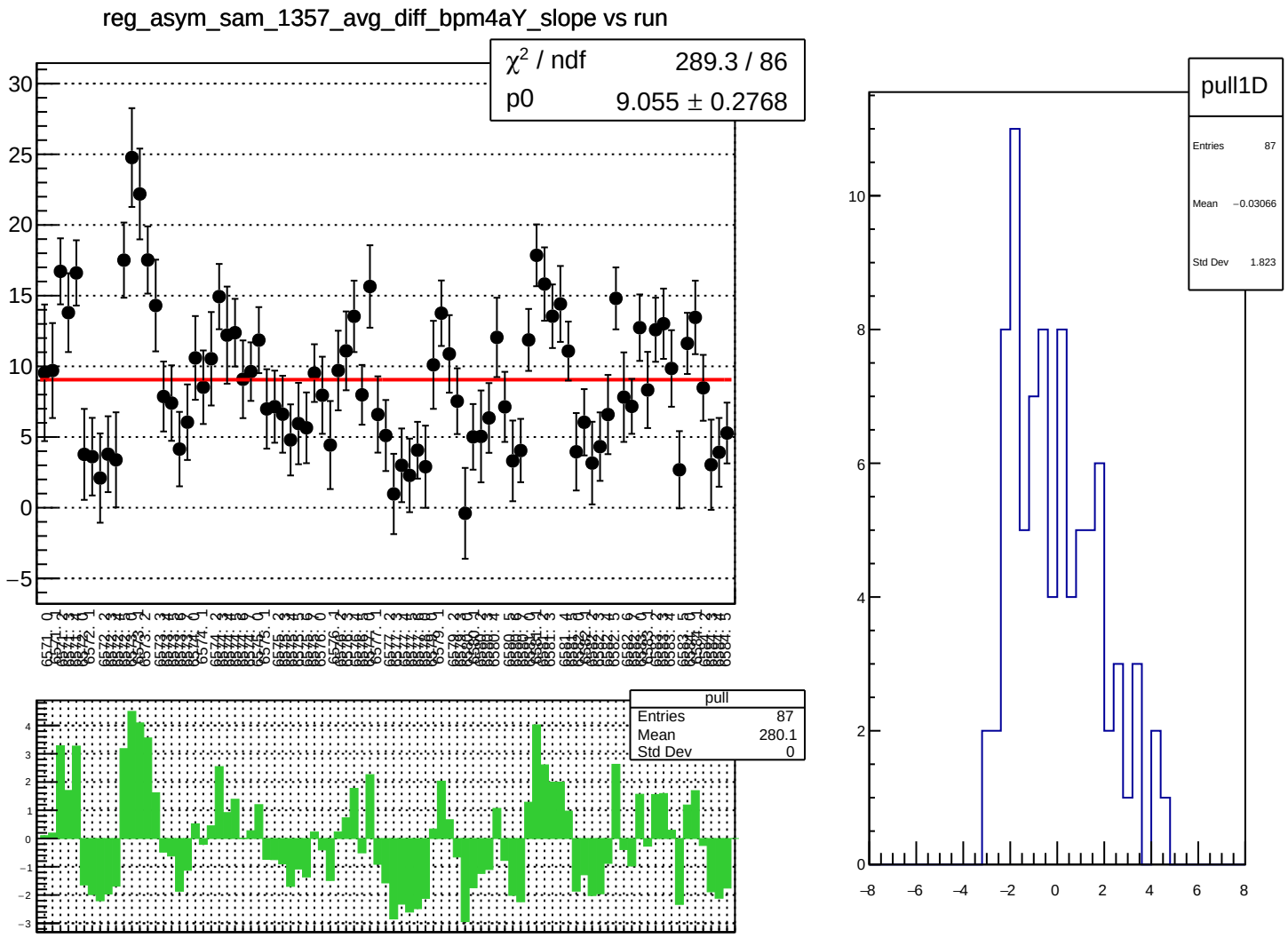

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 613.1 / 86
p0 19.07 ± 0.122
pull
Entries 87
Mean 251.8
Std Dev 0

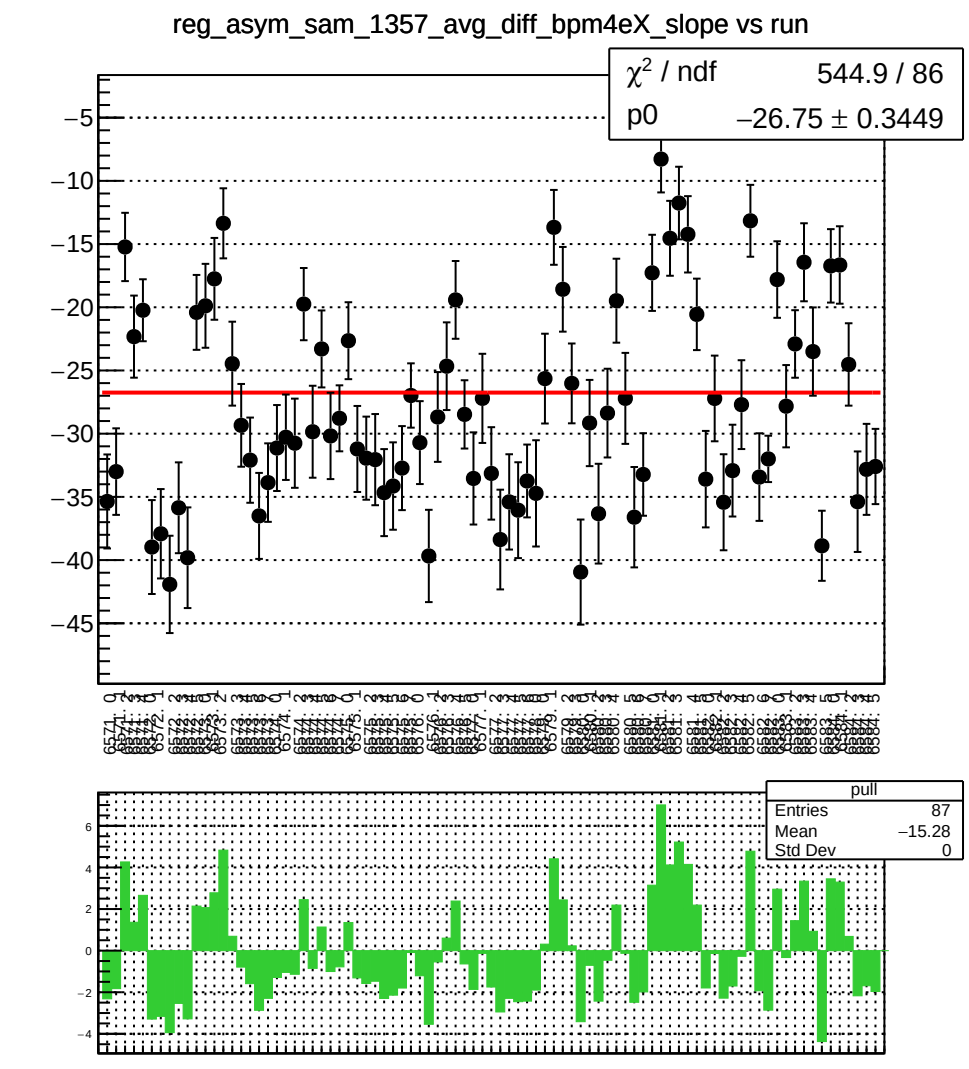

pull1D
Entries 87
Mean 0.07524
Std Dev 2.654

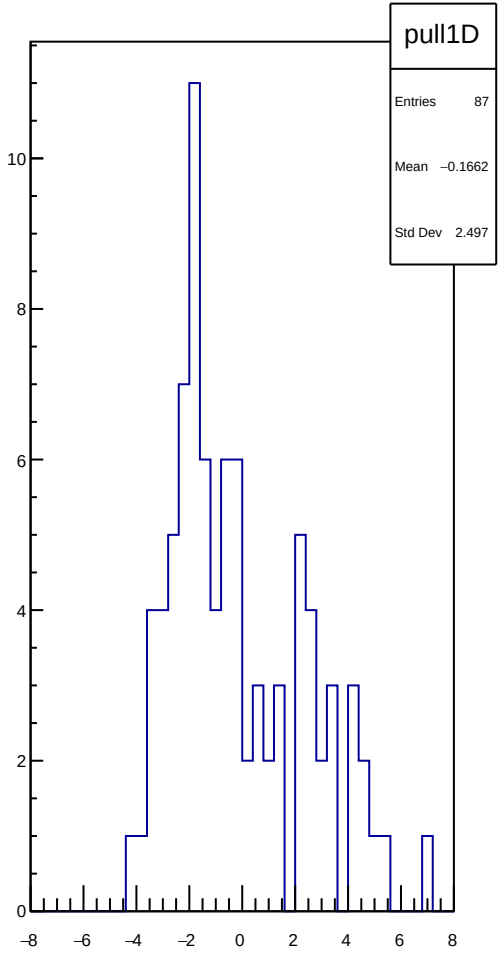

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 163.5 / 86
p0 −0.1246 ± 0.005507
pull
Entries 87
Mean 214.4
Std Dev 0
pull1D
Entries 87
Mean −0.1077
Std Dev 1.367

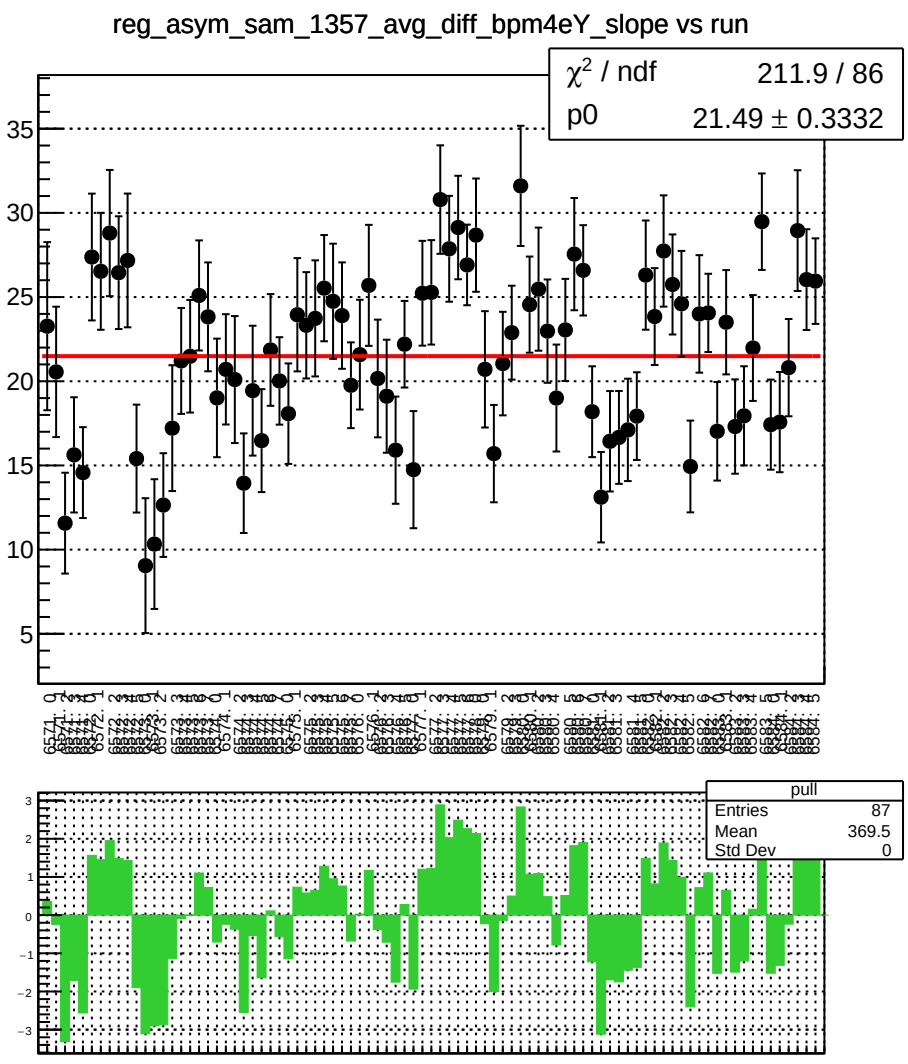

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 635.4 / 86
p0 −17.34 ± 0.3354
pull
Entries 87
Mean −3.454
Std Dev 0

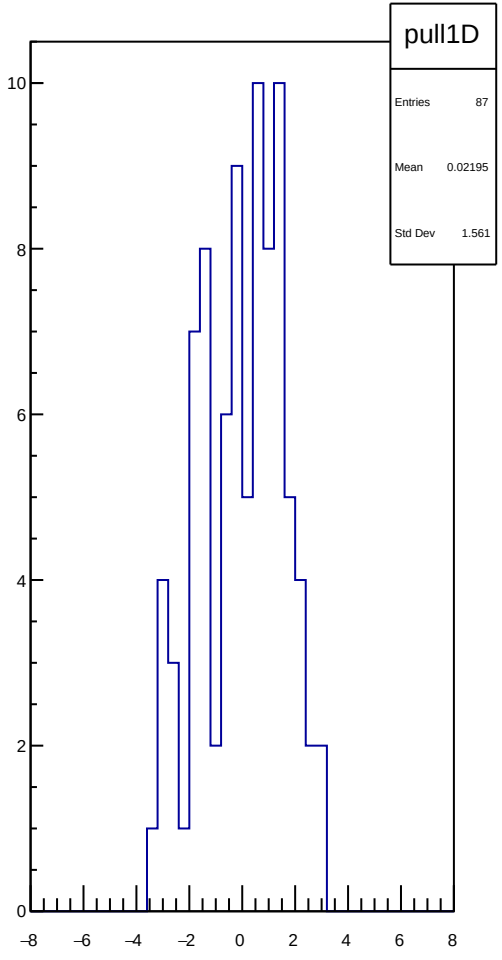

pull1D
Entries 87
Mean 0.1579
Std Dev 2.698

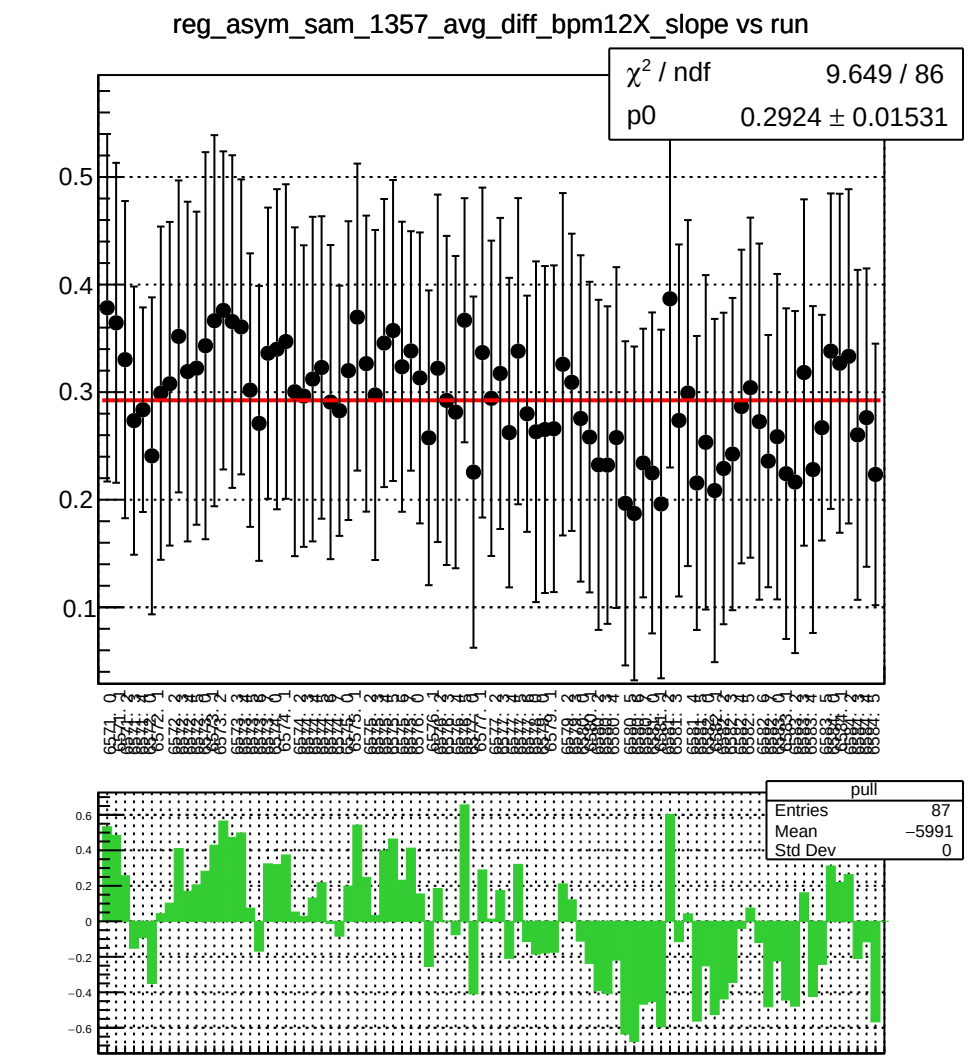

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 289.3 / 86
p0 9.055 ± 0.2768
pull
Entries 87
Mean 280.1
Std Dev 0
pull1D
Entries 87
Mean −0.03066
Std Dev 1.823

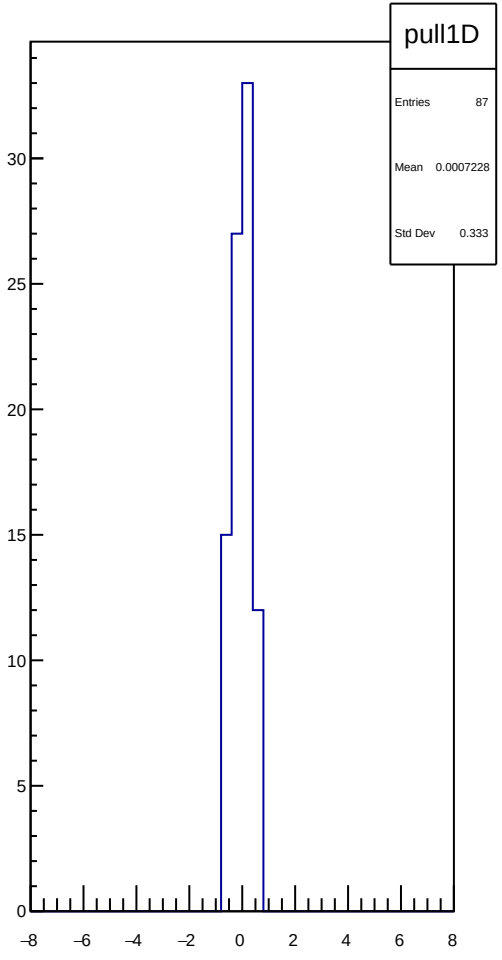

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 544.9 / 86
p0 −26.75 ± 0.3449
pull
Entries 87
Mean −15.28
Std Dev 0

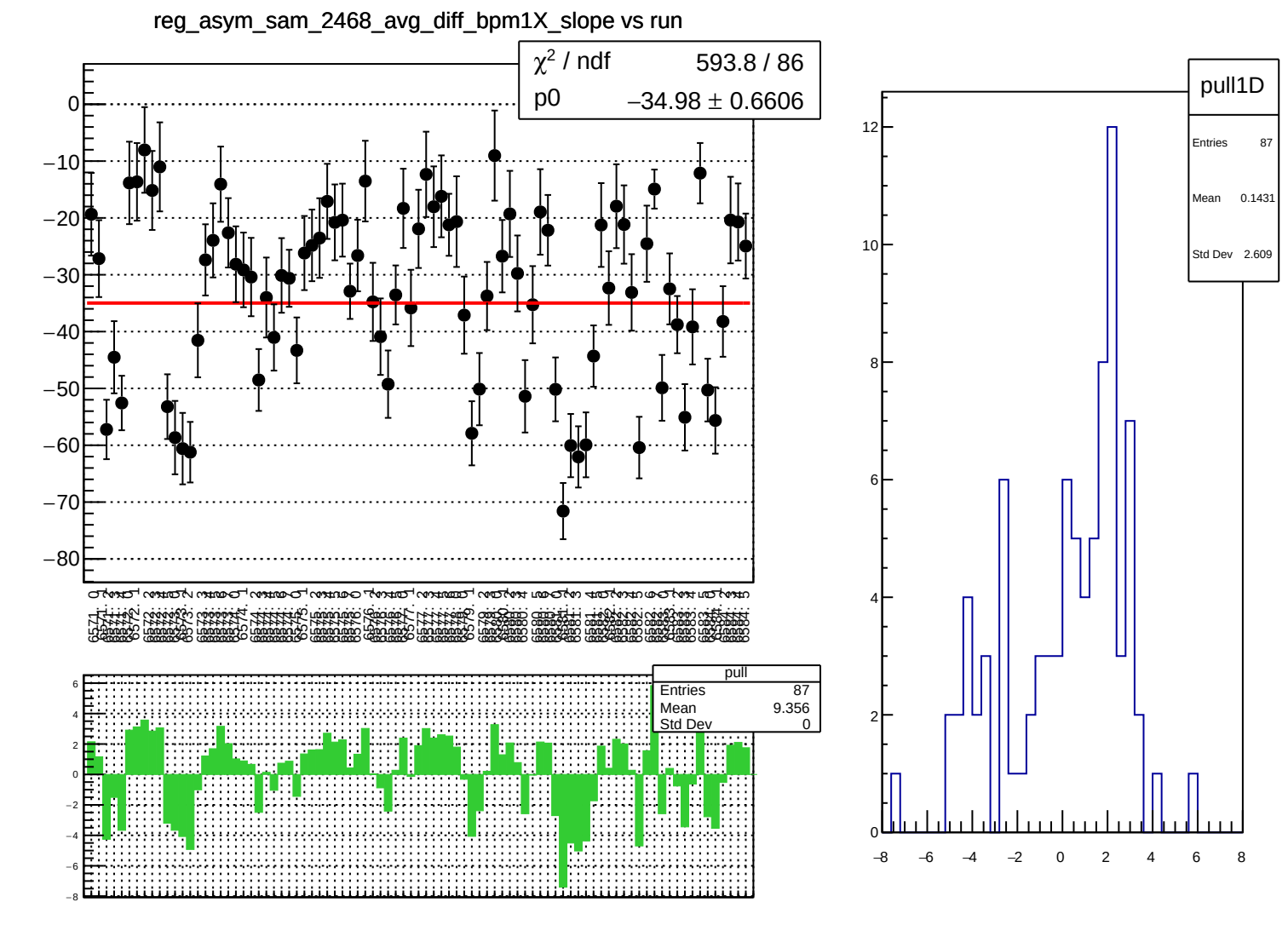

pull1D
Entries 87
Mean −0.1662
Std Dev 2.497

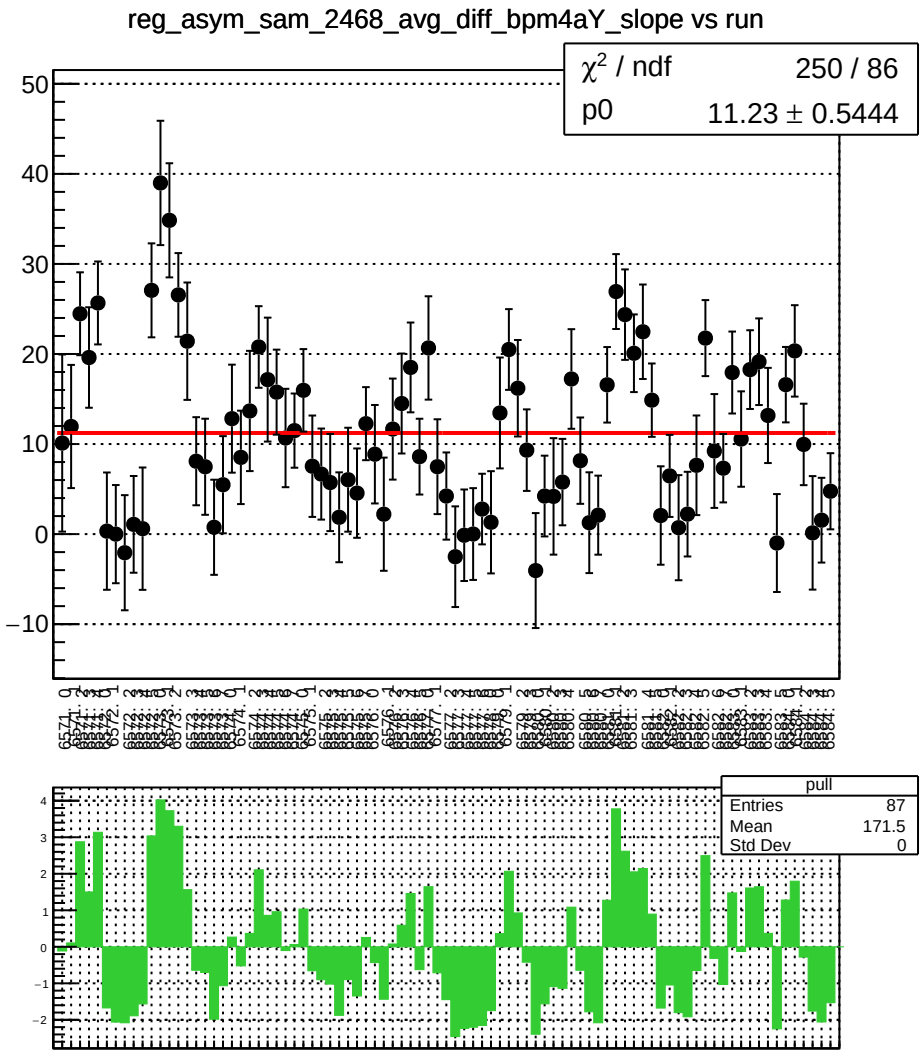

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 211.9 / 86
p0 21.49 ± 0.3332
pull
Entries 87
Mean 369.5
Std Dev 0

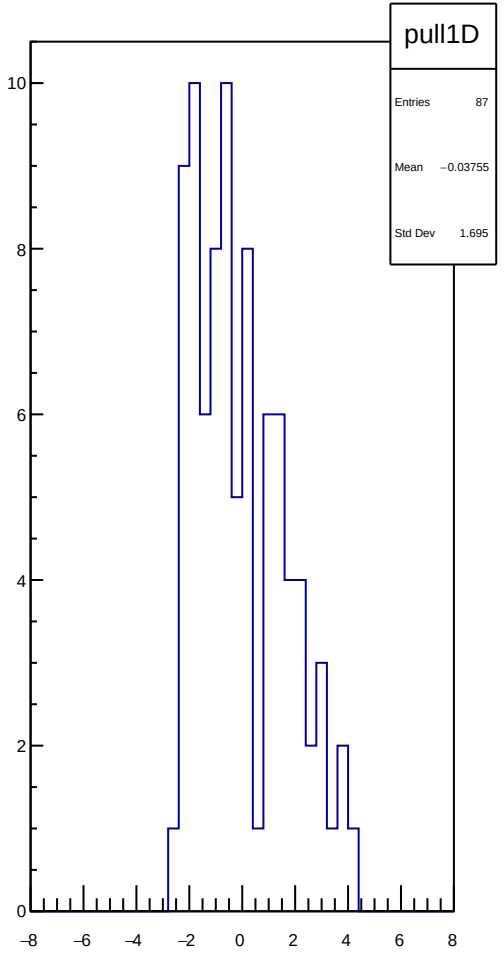

pull1D
Entries 87
Mean 0.02195
Std Dev 1.561

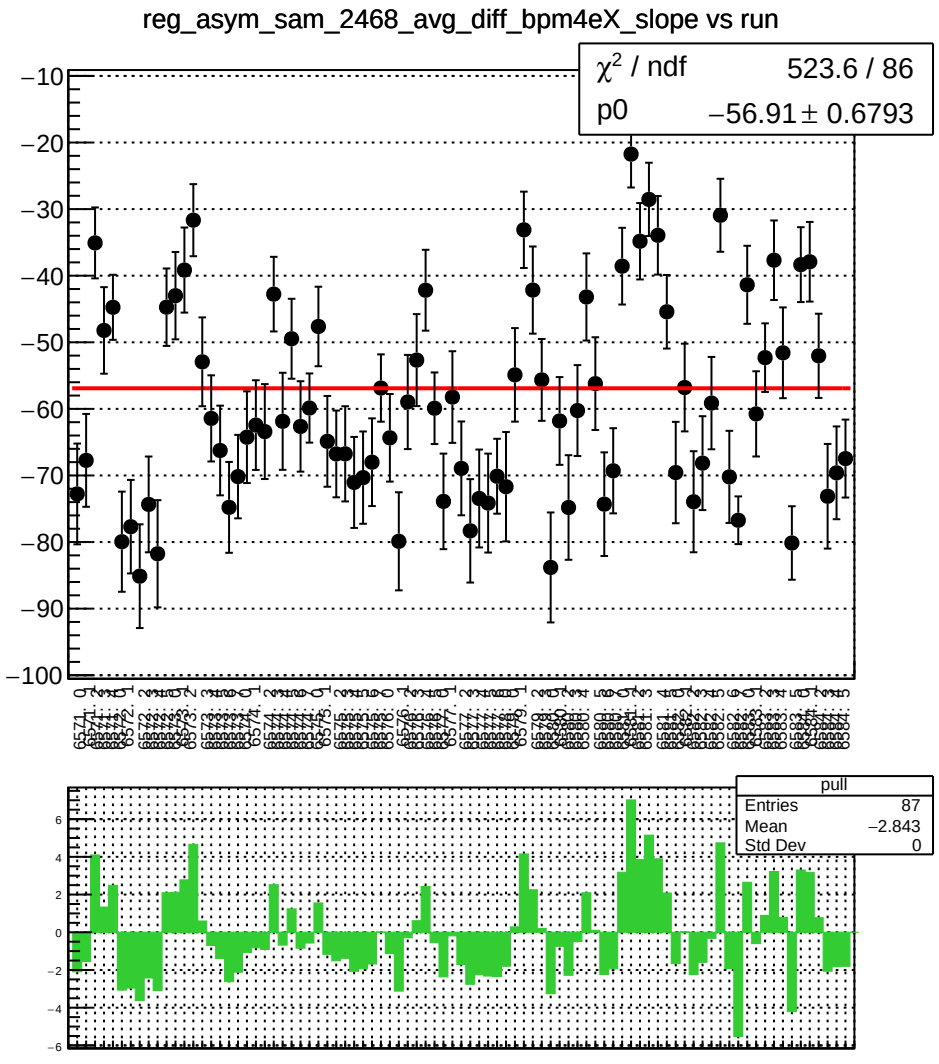

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 9.649 / 86
p0 0.2924 ± 0.01531
pull
Entries 87
Mean −5991
Std Dev 0

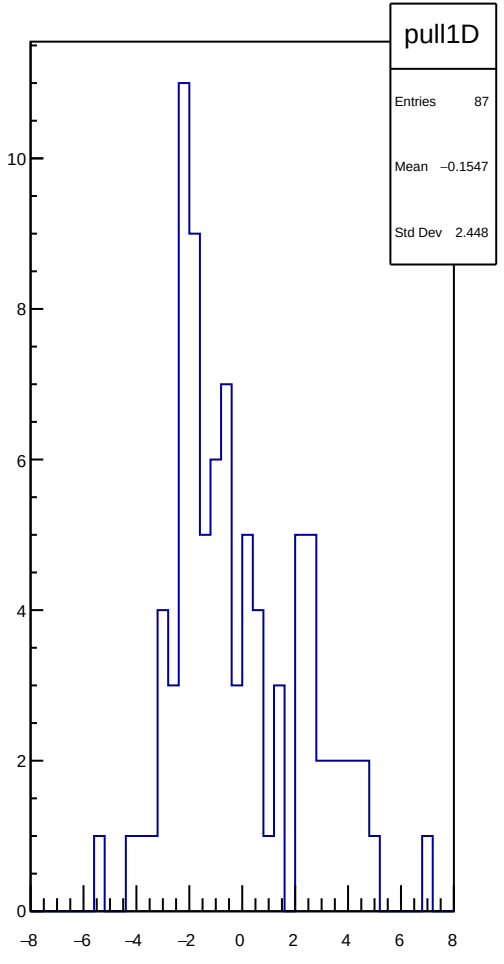

pull1D
Entries 87
Mean 0.0007228
Std Dev 0.333

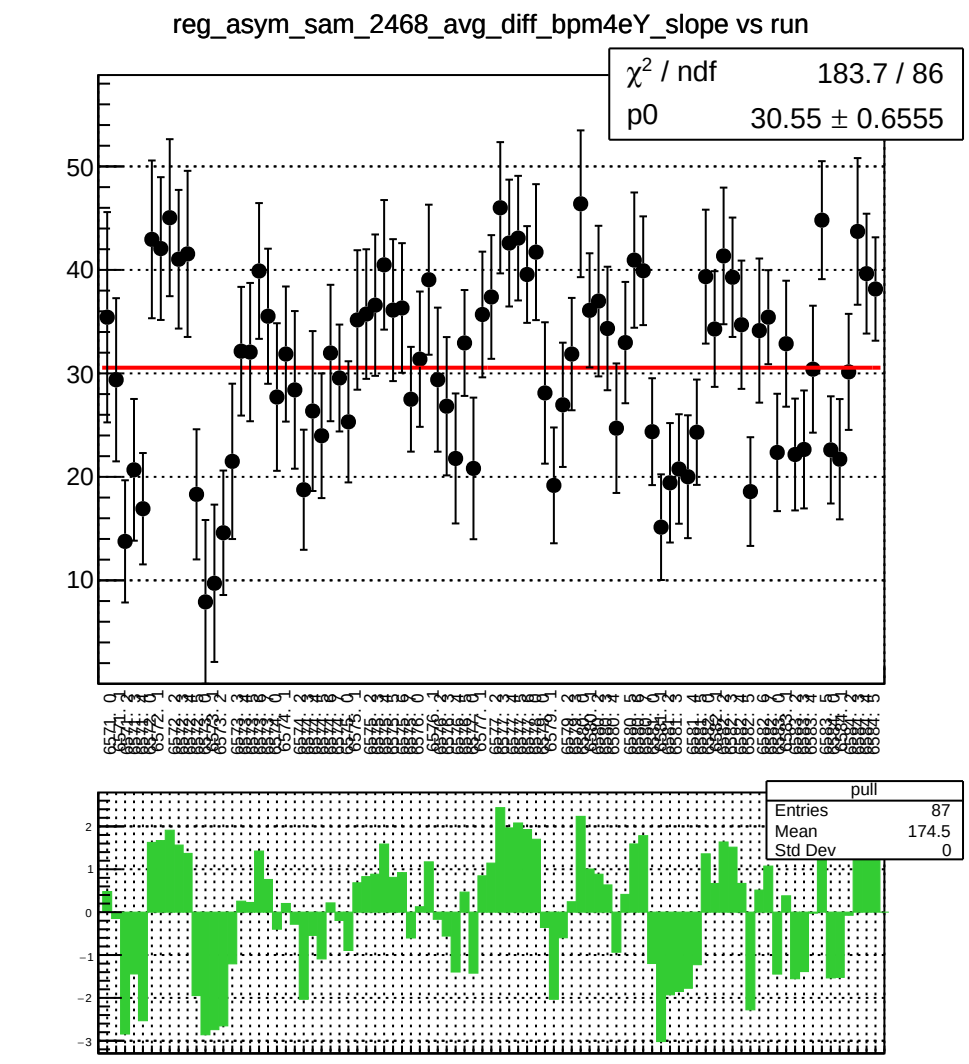

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 593.8 / 86
p0 −34.98 ± 0.6606
pull
Entries 87
Mean 9.356
Std Dev 0
pull1D
Entries 87
Mean 0.1431
Std Dev 2.609

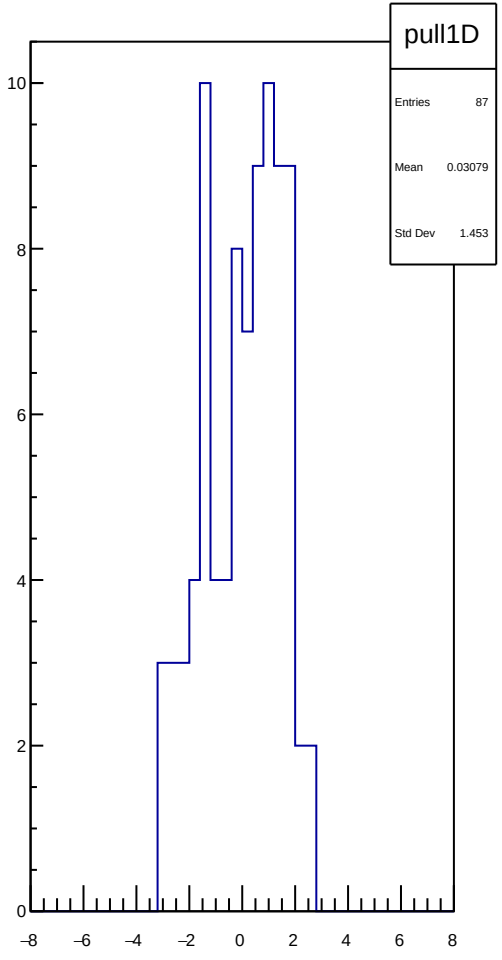

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 250 / 86
p0 11.23 ± 0.5444
pull
Entries 87
Mean 171.5
Std Dev 0

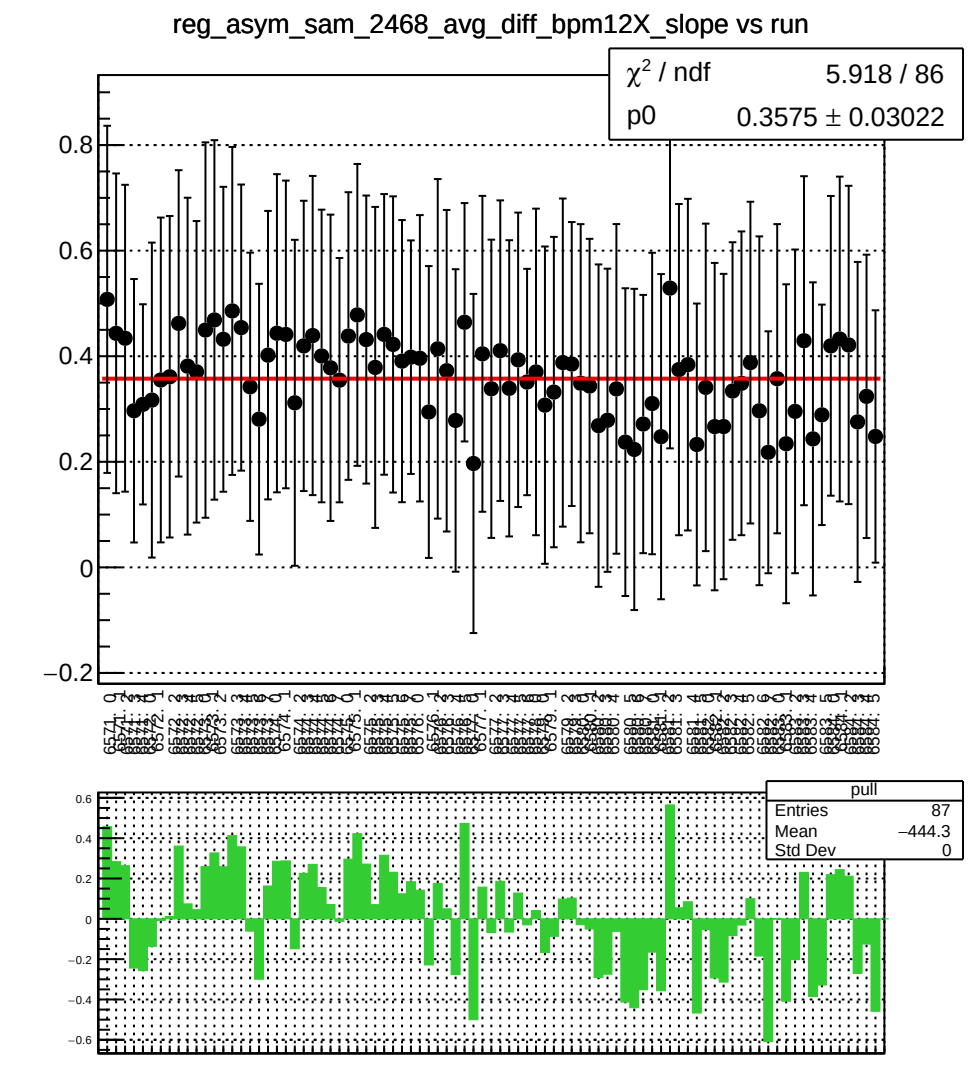

pull1D
Entries 87
Mean −0.03755
Std Dev 1.695

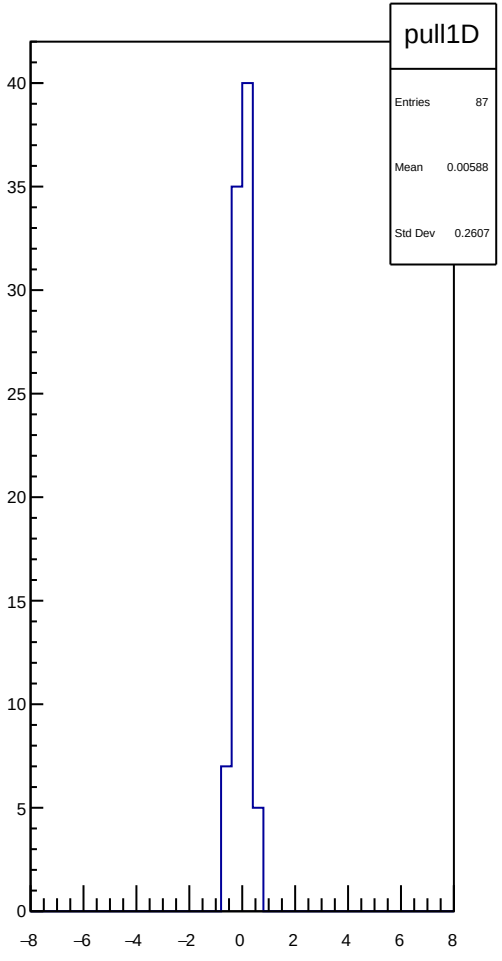

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 523.6 / 86
p0 −56.91 ± 0.6793
pull
Entries 87
Mean −2.843
Std Dev 0

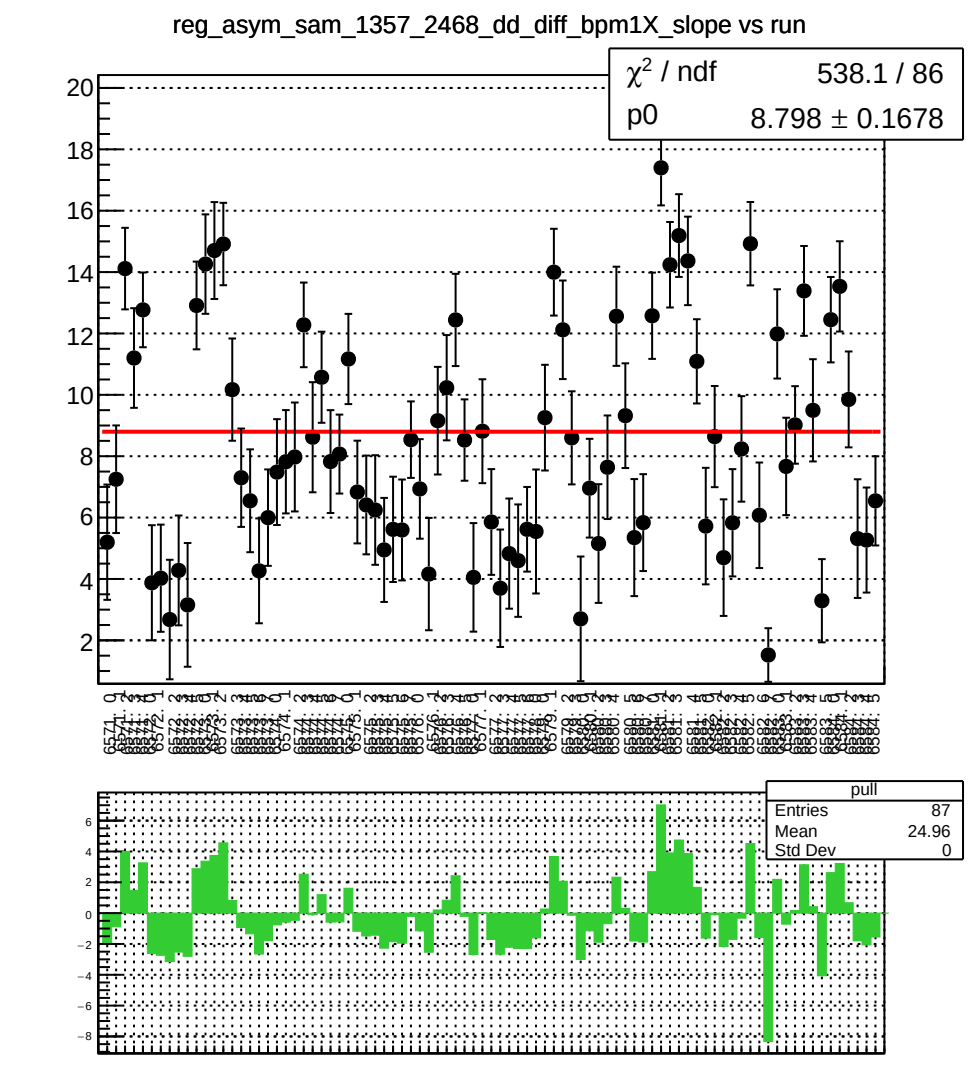

pull1D
Entries 87
Mean −0.1547
Std Dev 2.448

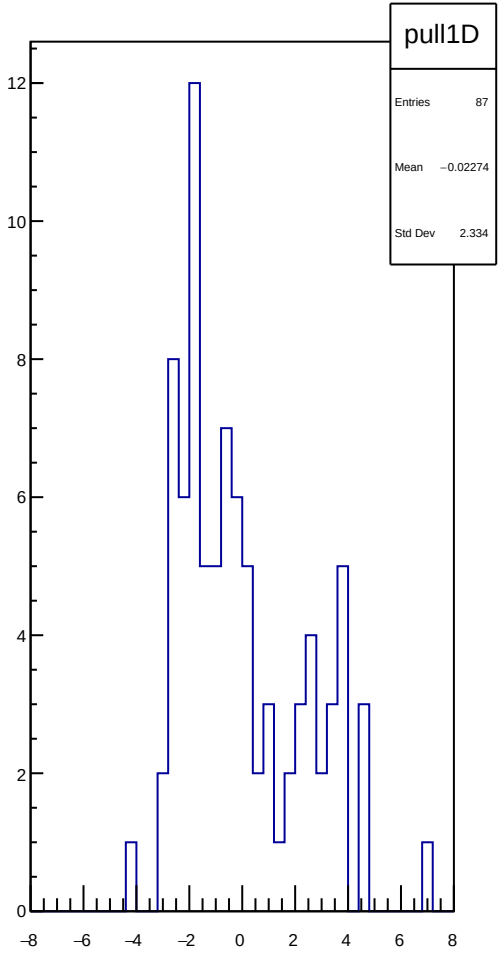

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 183.7 / 86
p0 30.55 ± 0.6555
pull
Entries 87
Mean 174.5
Std Dev 0

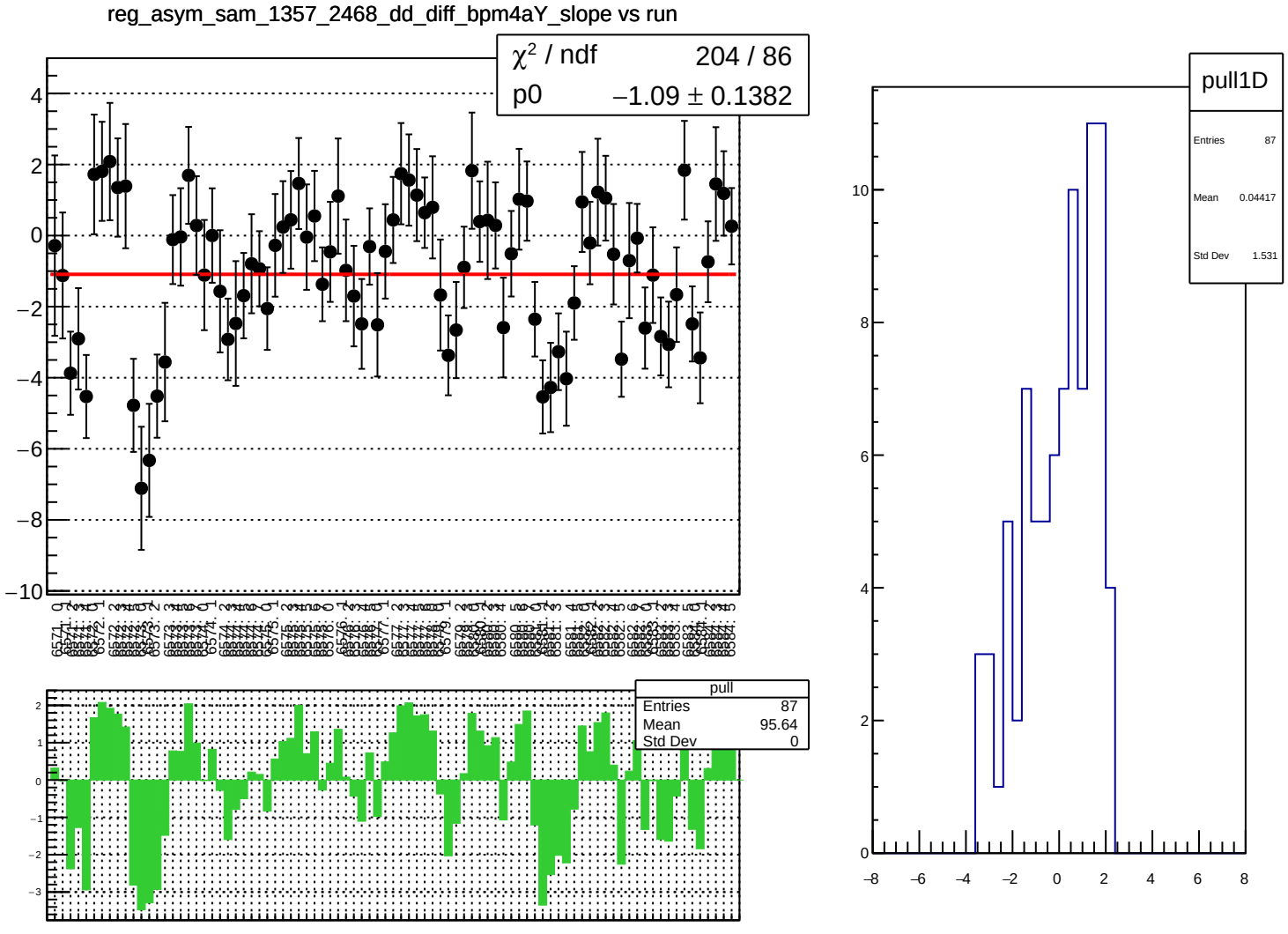

pull1D
Entries 87
Mean 0.03079
Std Dev 1.453

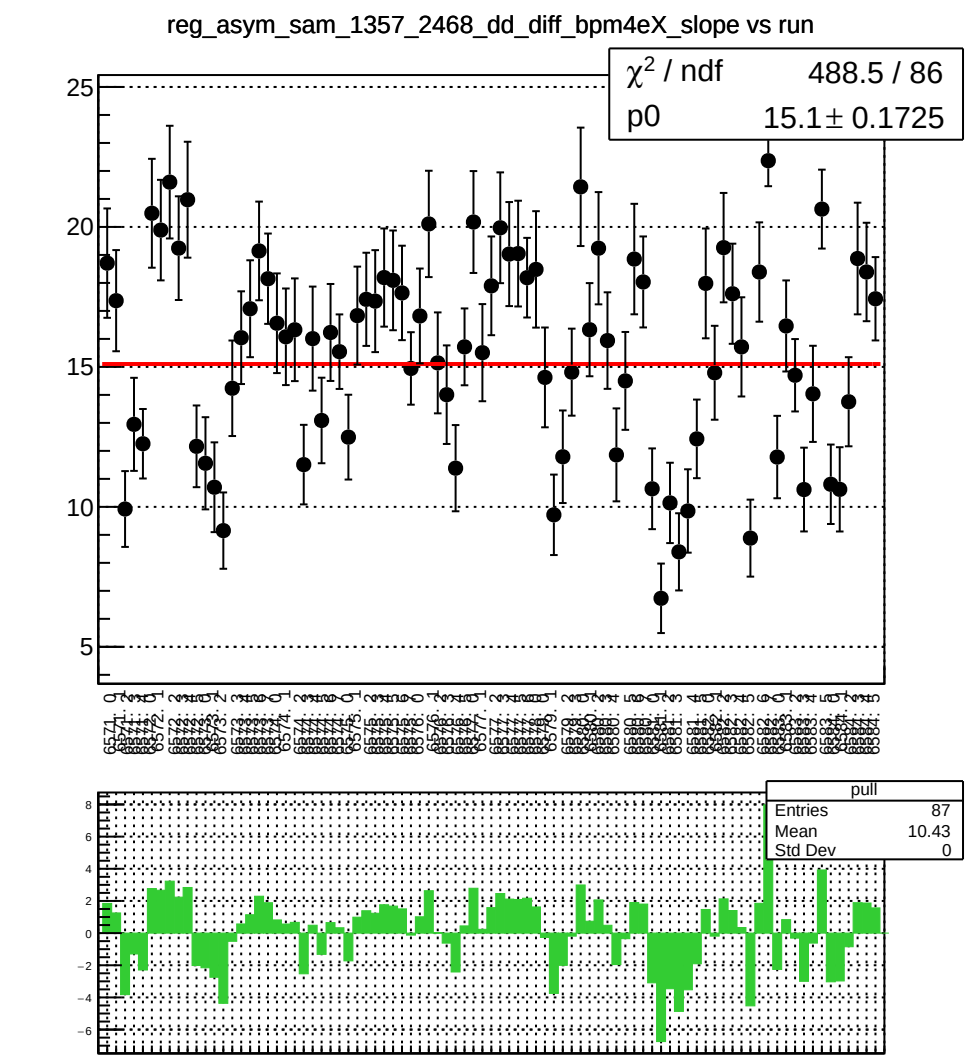

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 5.918 / 86
p0 0.3575 ± 0.03022
pull
Entries 87
Mean −444.3
Std Dev 0

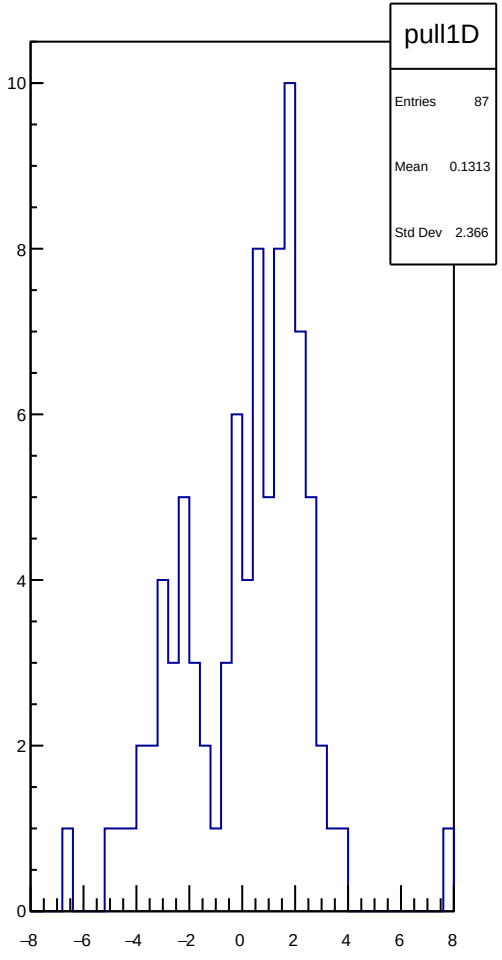

pull1D
Entries 87
Mean 0.00588
Std Dev 0.2607

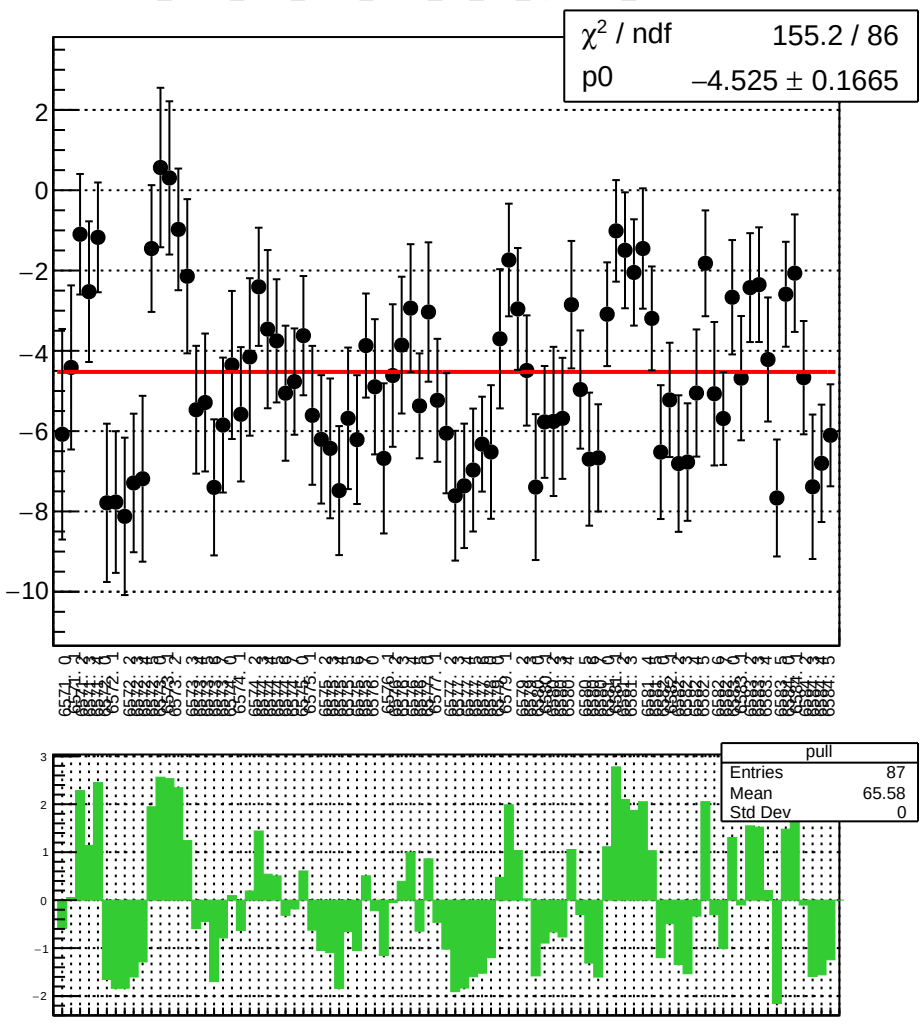

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 538.1 / 86
p0 8.798 ± 0.1678
pull
Entries 87
Mean 24.96
Std Dev 0

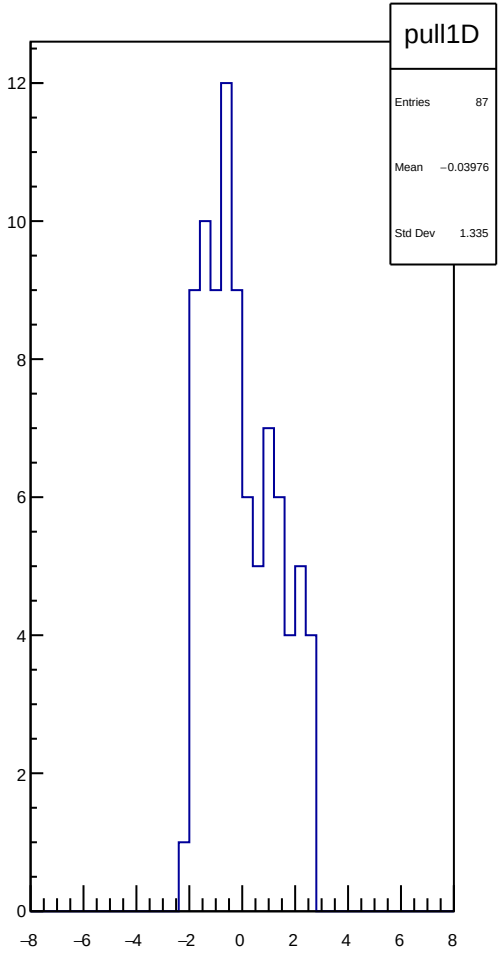

pull1D
Entries 87
Mean −0.02274
Std Dev 2.334

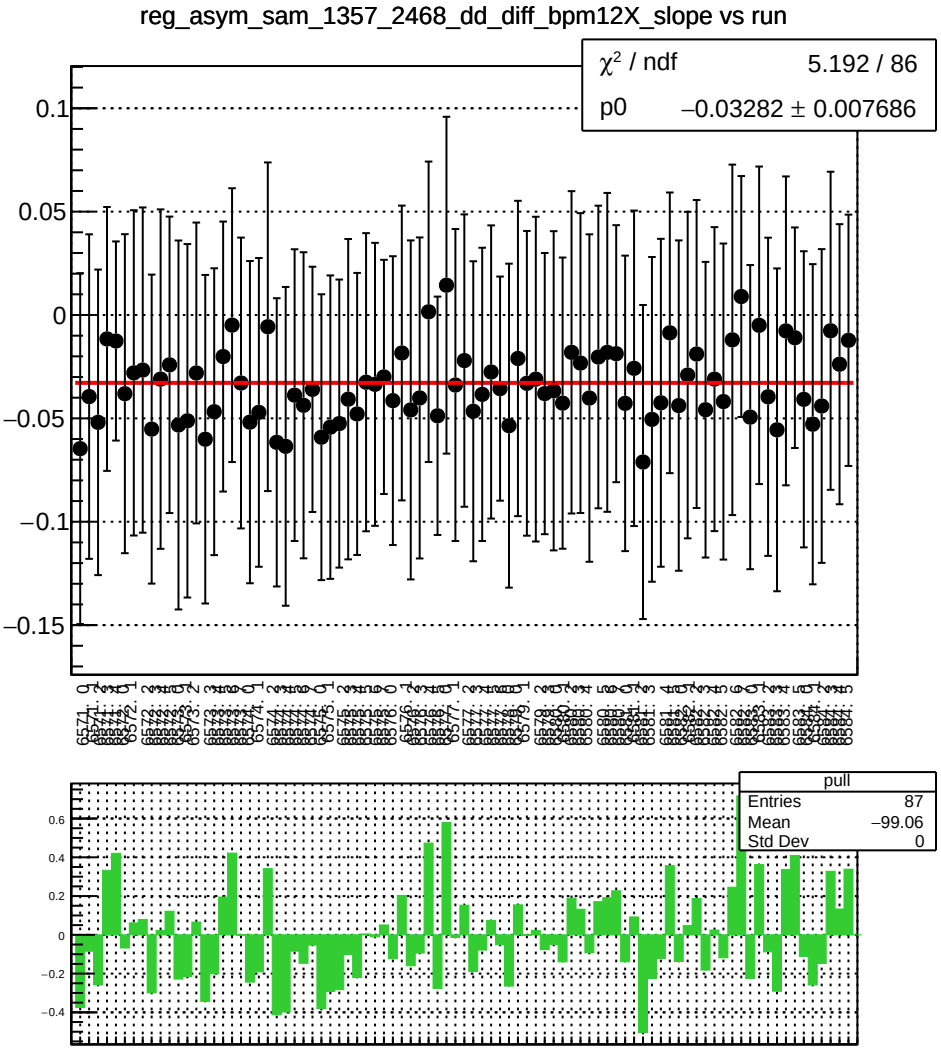

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 204 / 86
p0 −1.09 ± 0.1382
pull
Entries 87
Mean 95.64
Std Dev 0
pull1D
Entries 87
Mean 0.04417
Std Dev 1.531

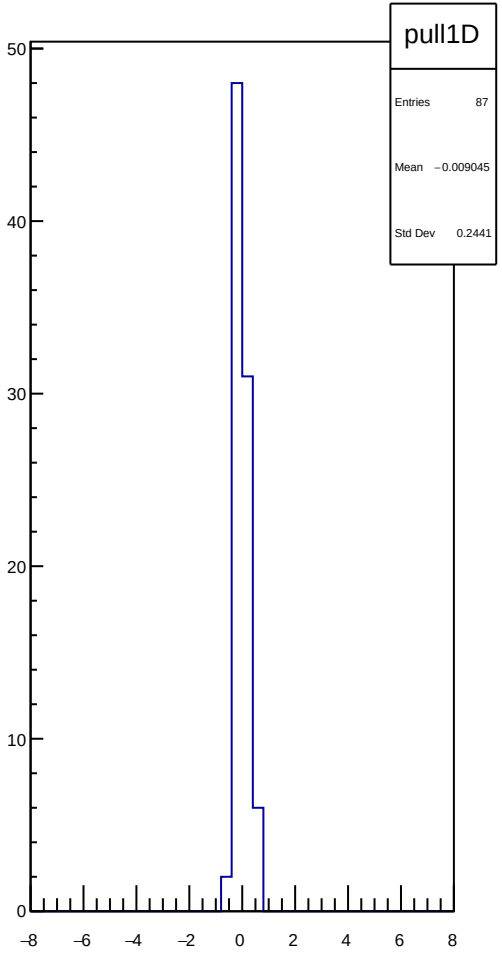

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 488.5 / 86
p0 15.1 ± 0.1725
pull
Entries 87
Mean 10.43
Std Dev 0

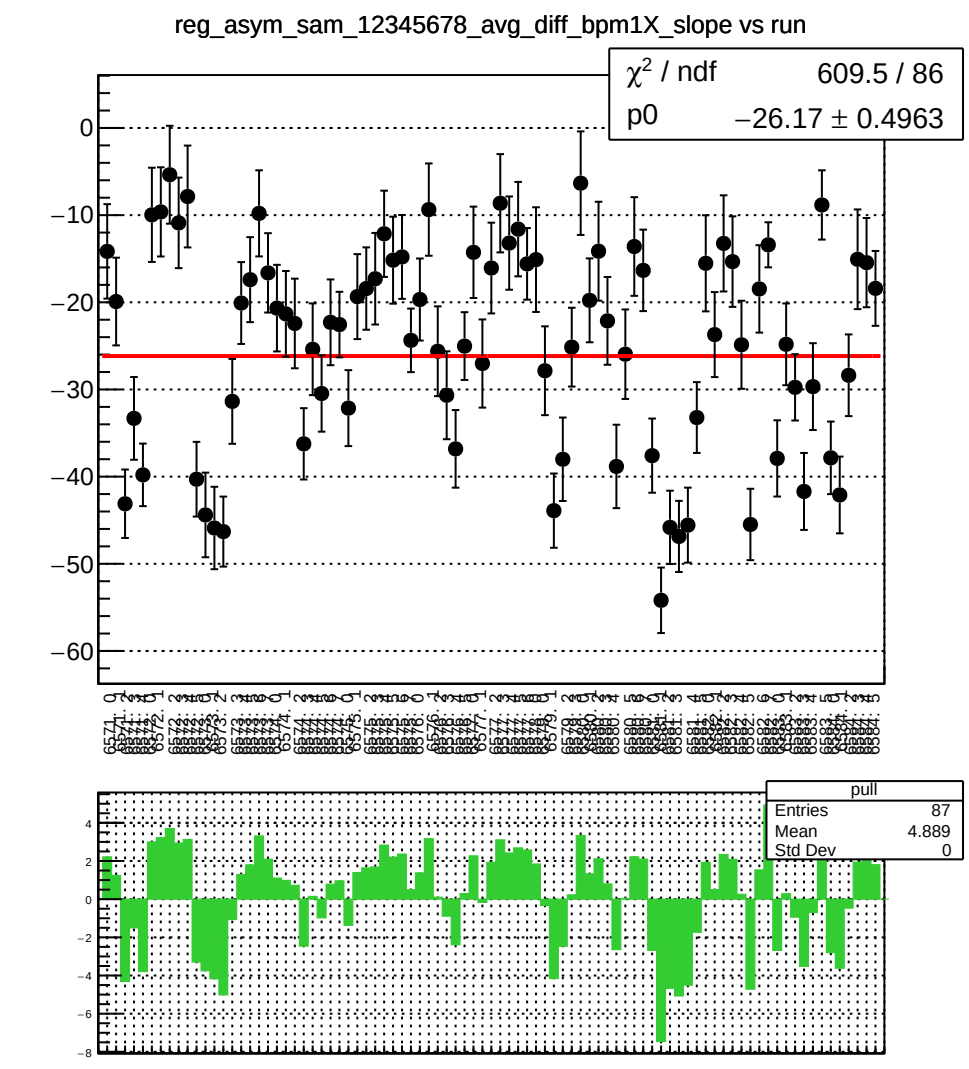

pull1D
Entries 87
Mean 0.1313
Std Dev 2.366

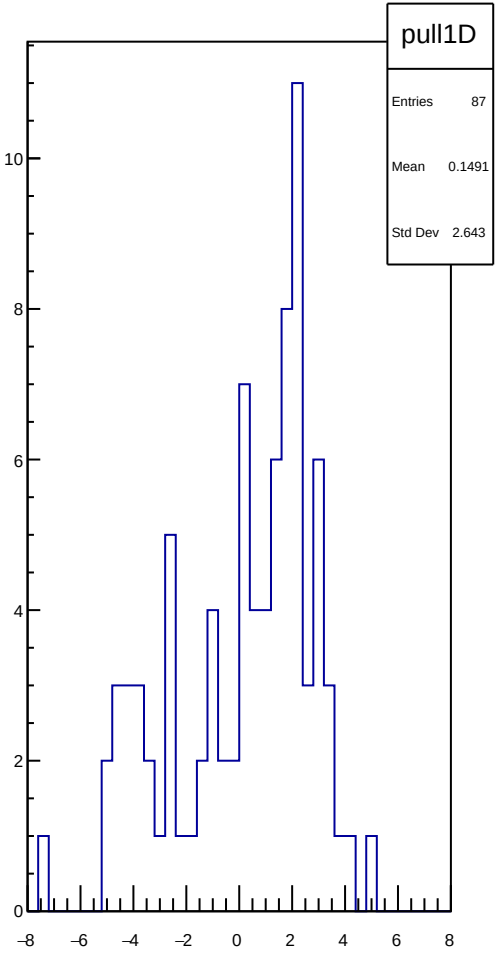

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 155.2 / 86
p0 −4.525 ± 0.1665
pull
Entries 87
Mean 65.58
Std Dev 0

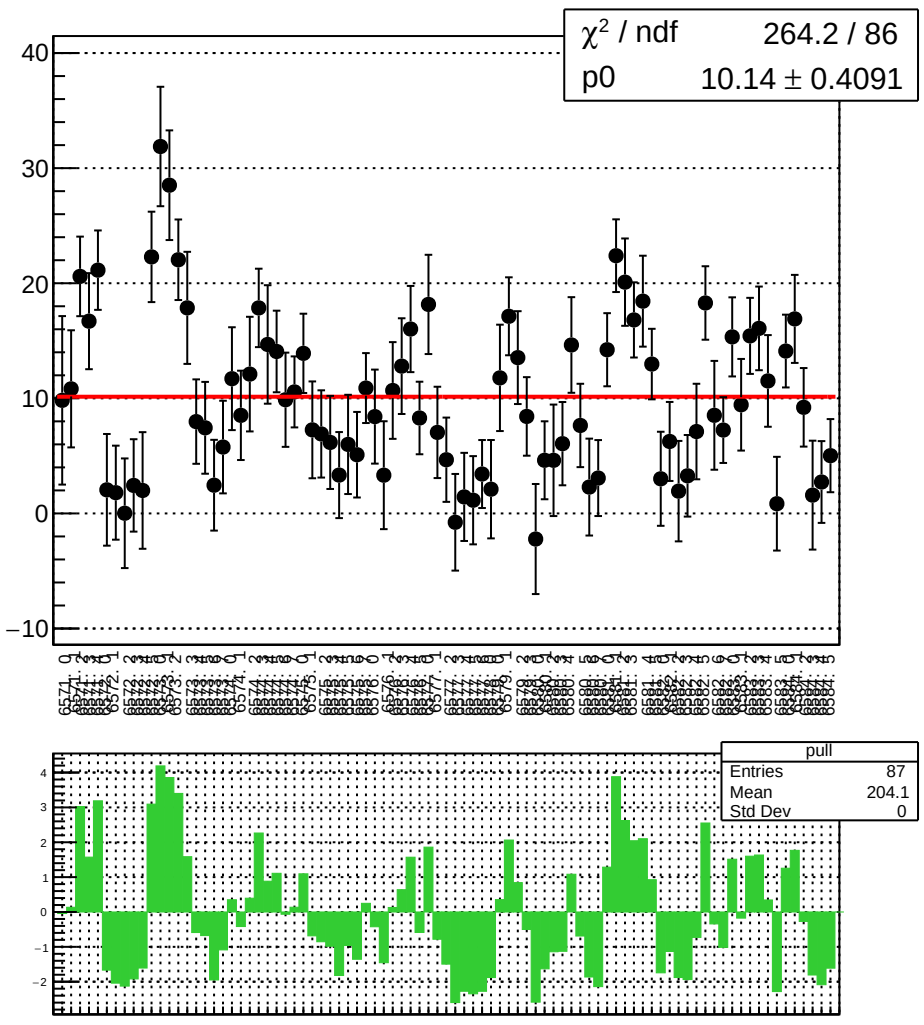

pull1D
Entries 87
Mean −0.03976
Std Dev 1.335

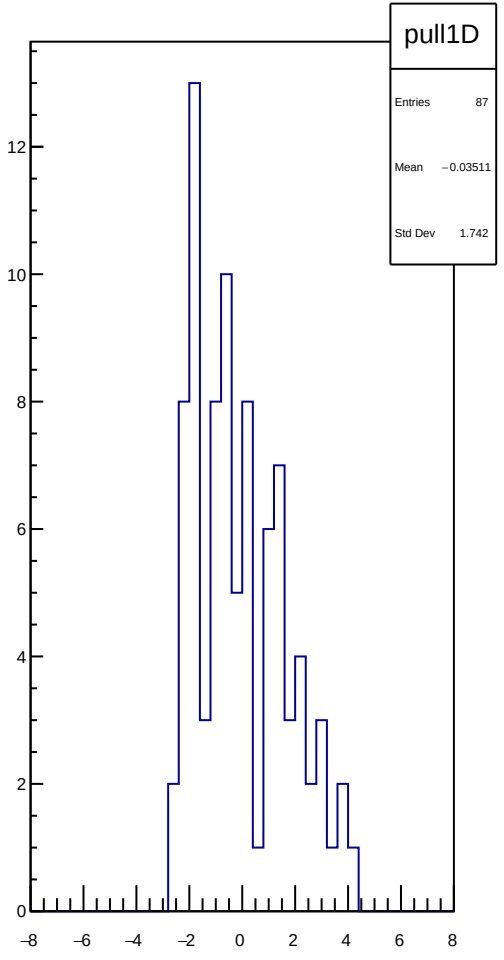

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 5.192 / 86
p0 −0.03282 ± 0.007686
pull
Entries 87
Mean −99.06
Std Dev 0

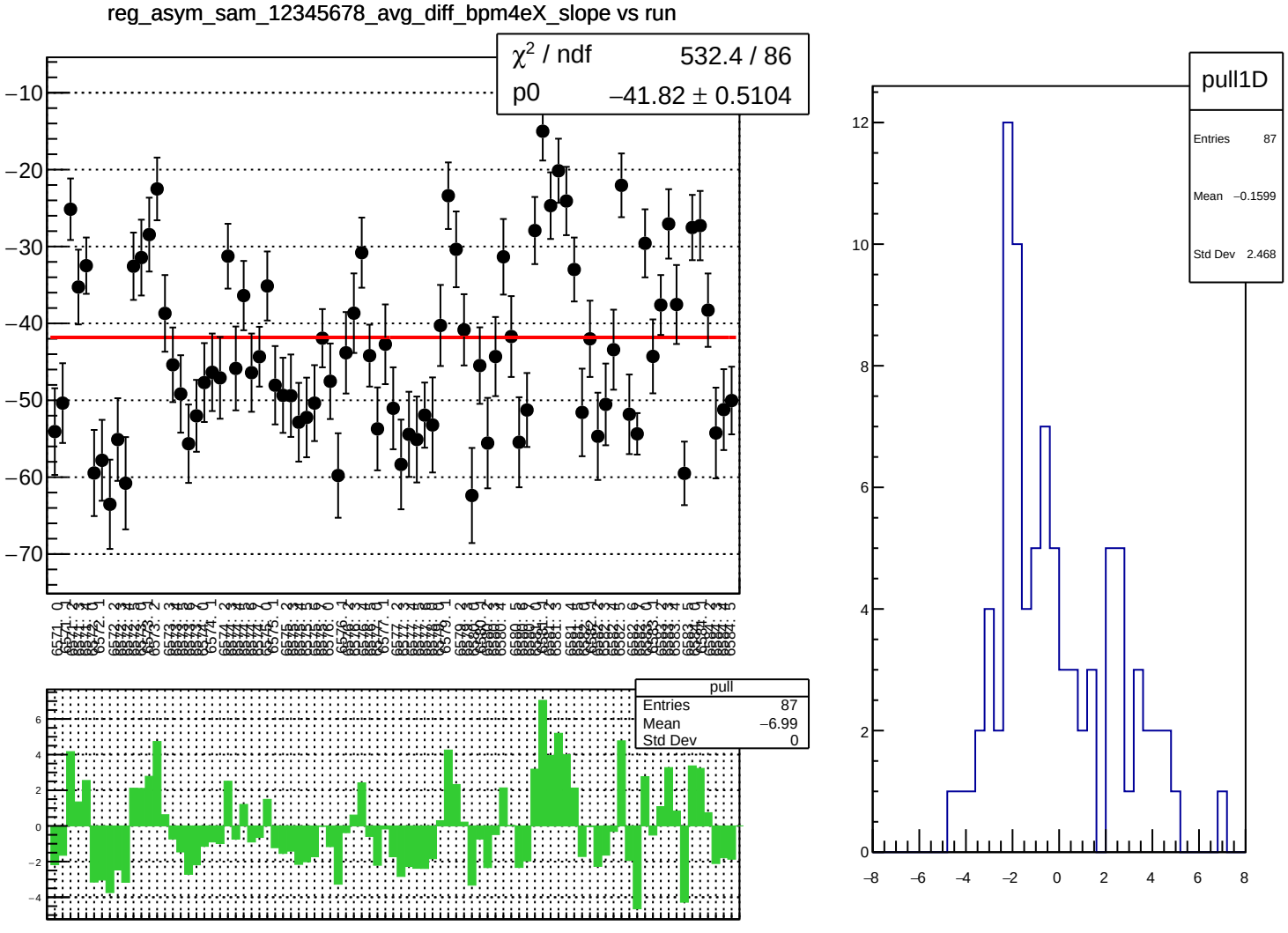

pull1D
Entries 87
Mean −0.009045
Std Dev 0.2441

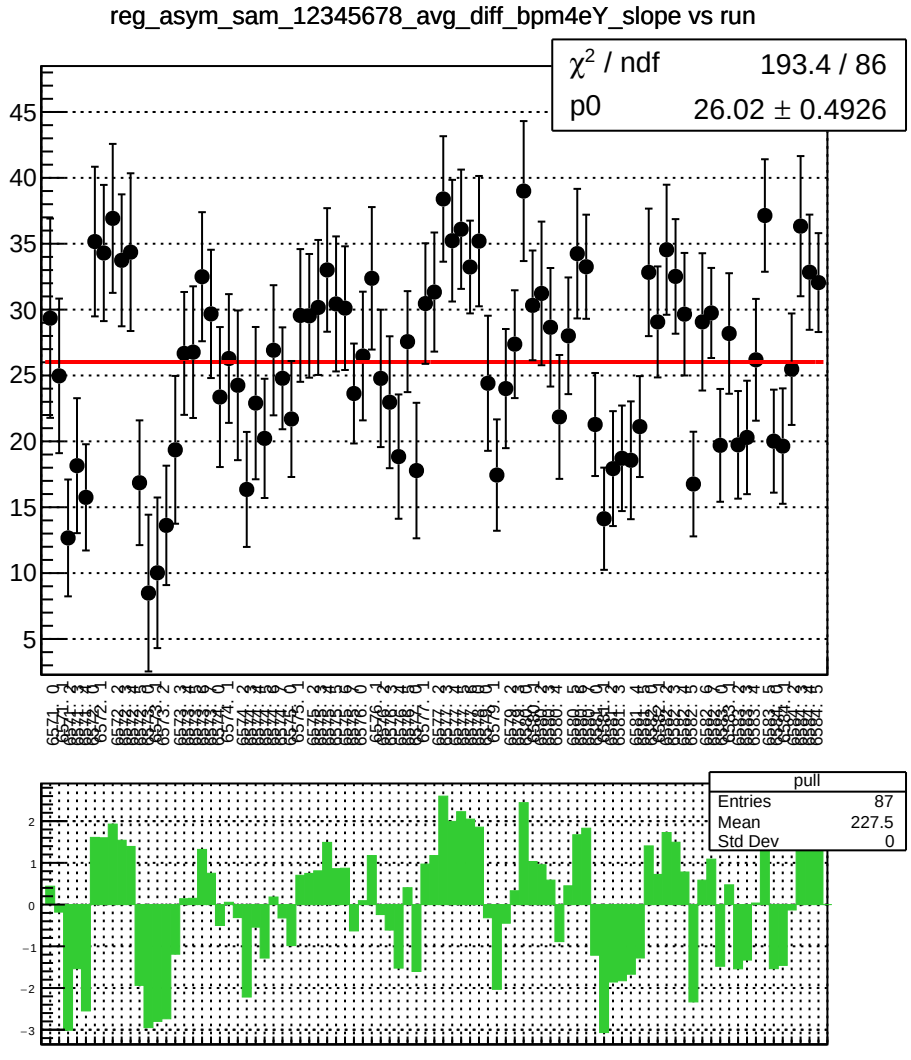

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 609.5 / 86
p0 −26.17 ± 0.4963
pull
Entries 87
Mean 4.889
Std Dev 0

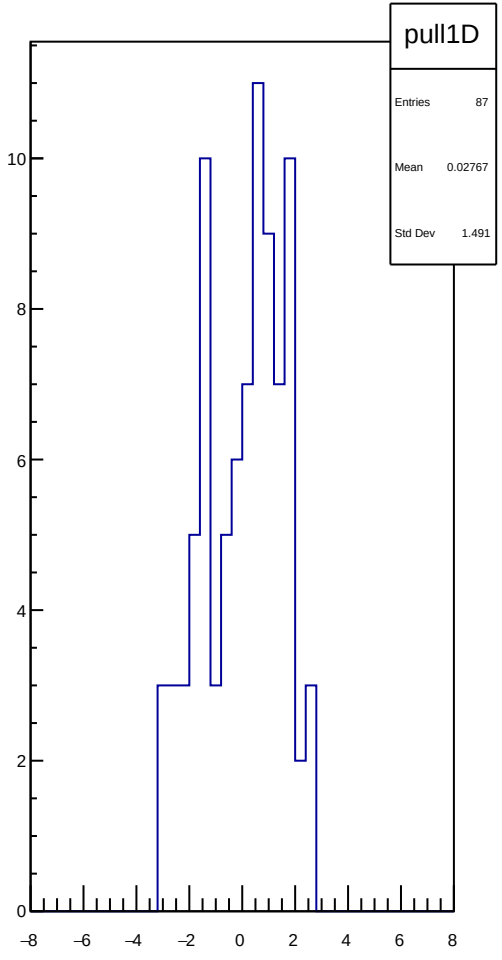

pull1D
Entries 87
Mean 0.1491
Std Dev 2.643

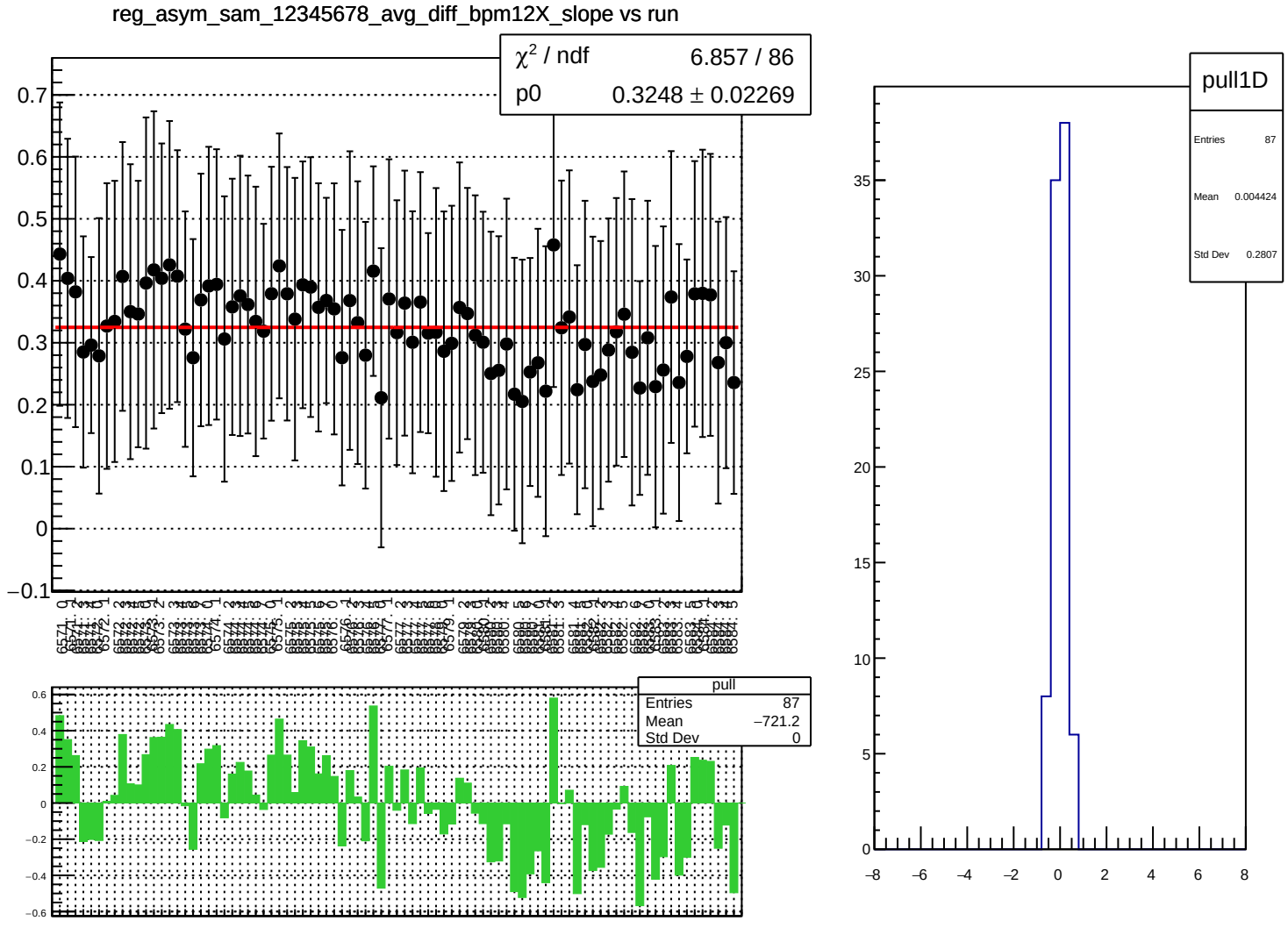

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 264.2 / 86
p0 10.14 ± 0.4091
pull
Entries 87
Mean 204.1
Std Dev 0

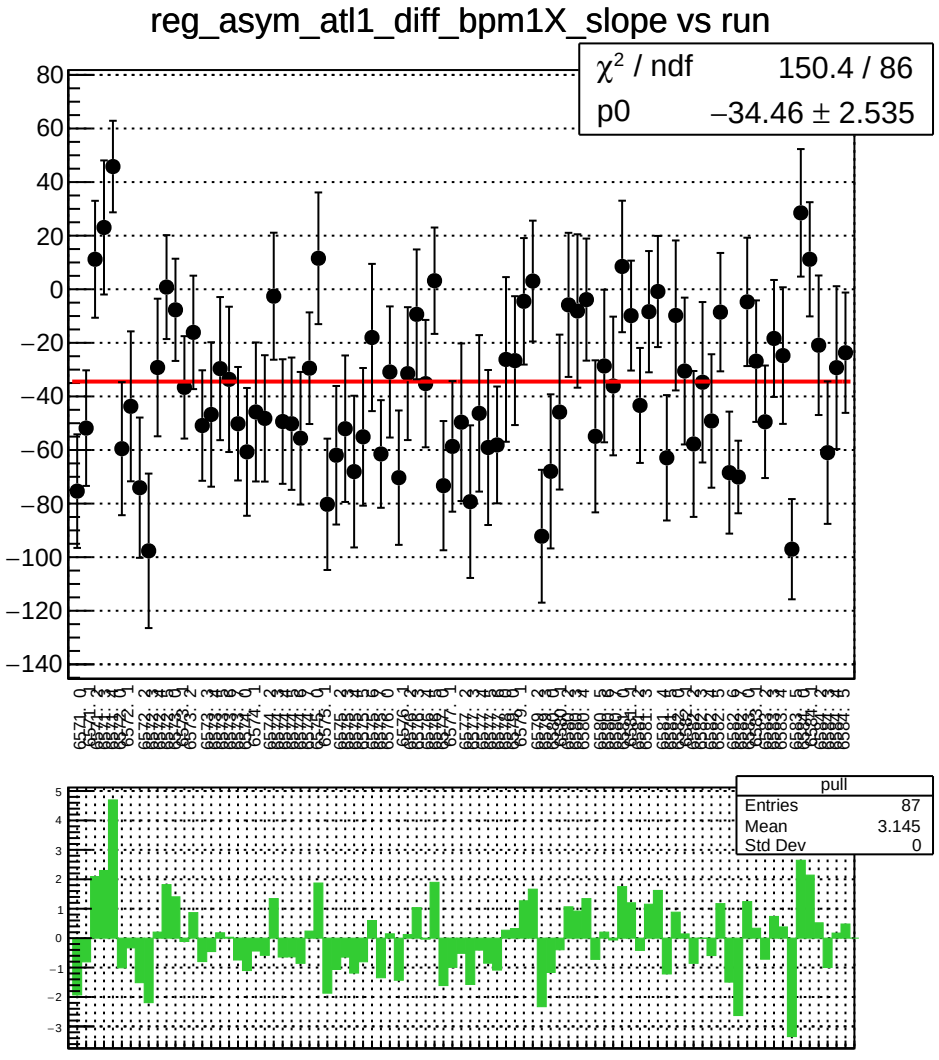

pull1D
Entries 87
Mean −0.03511
Std Dev 1.742

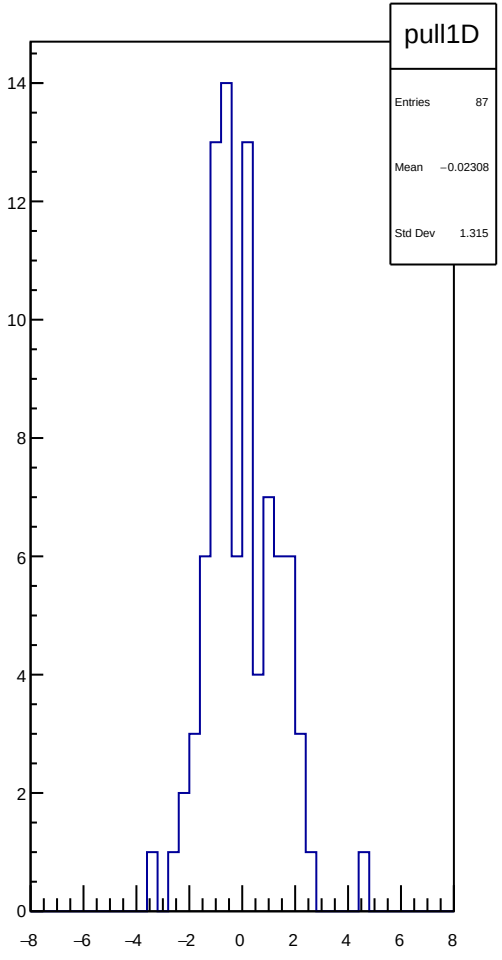

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 532.4 / 86
p0 −41.82 ± 0.5104
pull
Entries 87
Mean −6.99
Std Dev 0
pull1D
Entries 87
Mean −0.1599
Std Dev 2.468

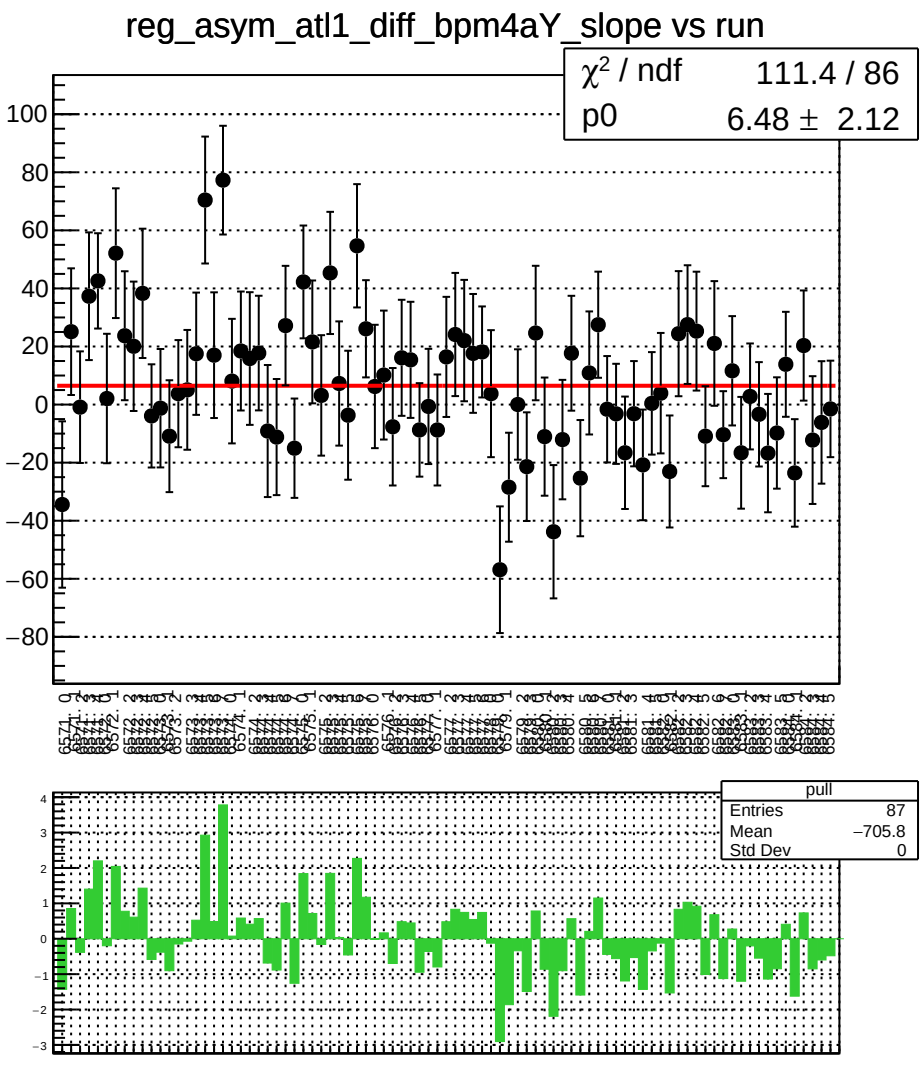

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 193.4 / 86
p0 26.02 ± 0.4926
pull
Entries 87
Mean 227.5
Std Dev 0

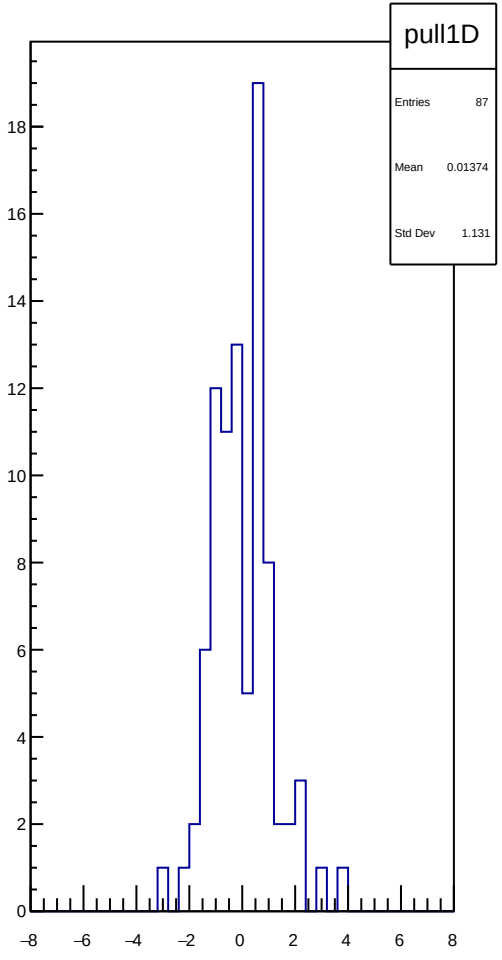

pull1D
Entries 87
Mean 0.02767
Std Dev 1.491

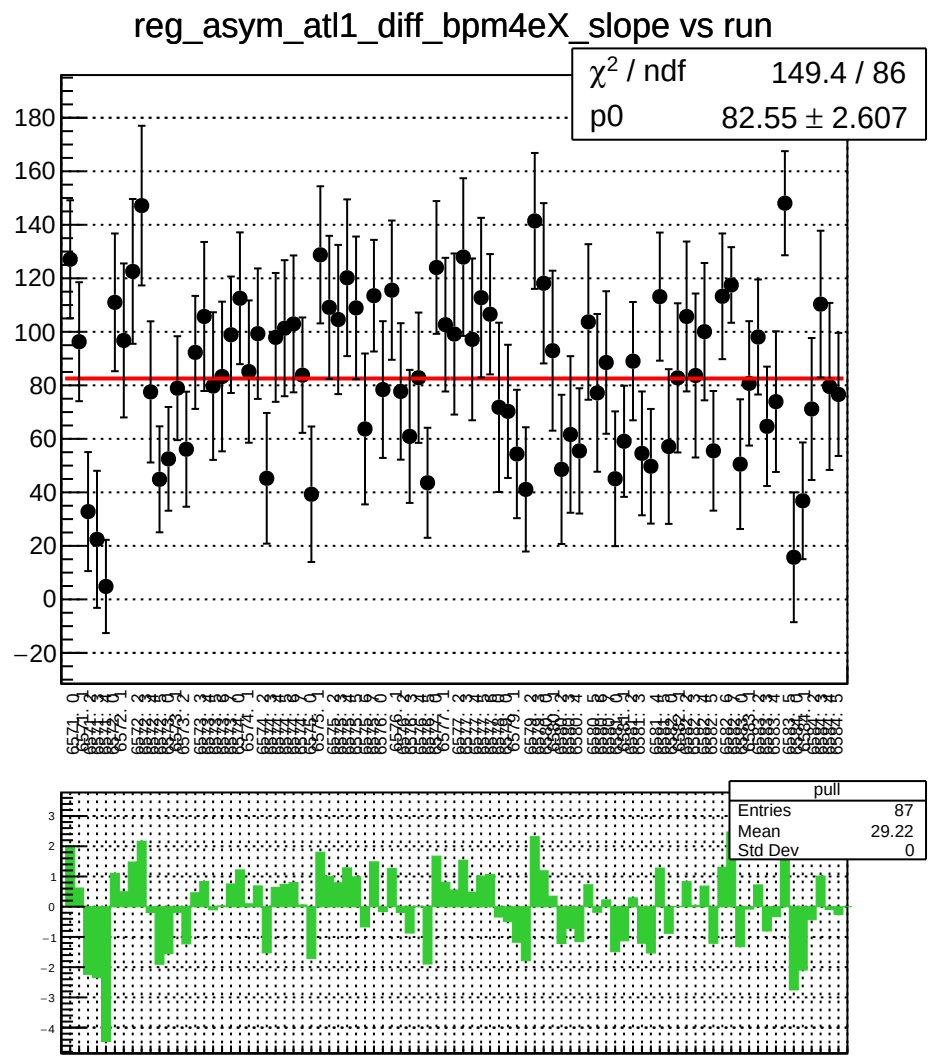

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 6.857 / 86
p0 0.3248 ± 0.02269
pull
Entries 87
Mean −721.2
Std Dev 0
pull1D
Entries 87
Mean 0.004424
Std Dev 0.2807

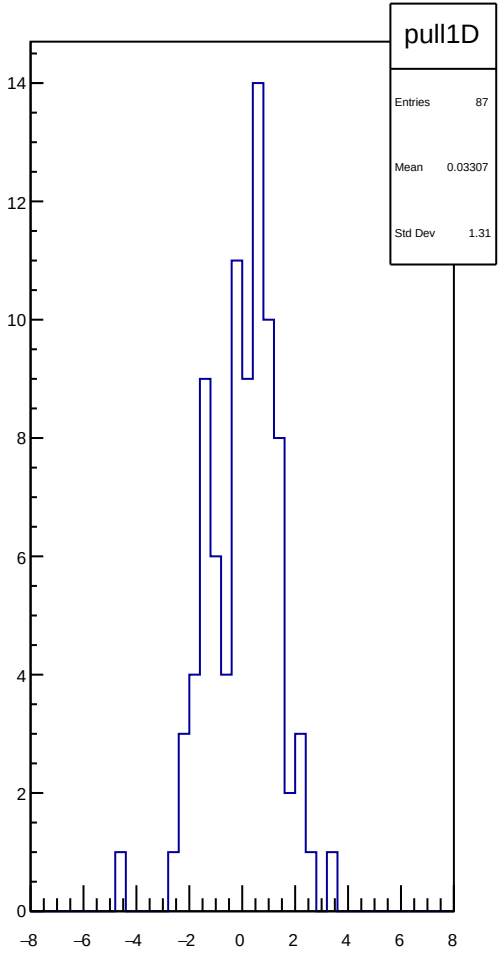

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 150.4 / 86
p0 −34.46 ± 2.535
pull
Entries 87
Mean 3.145
Std Dev 0

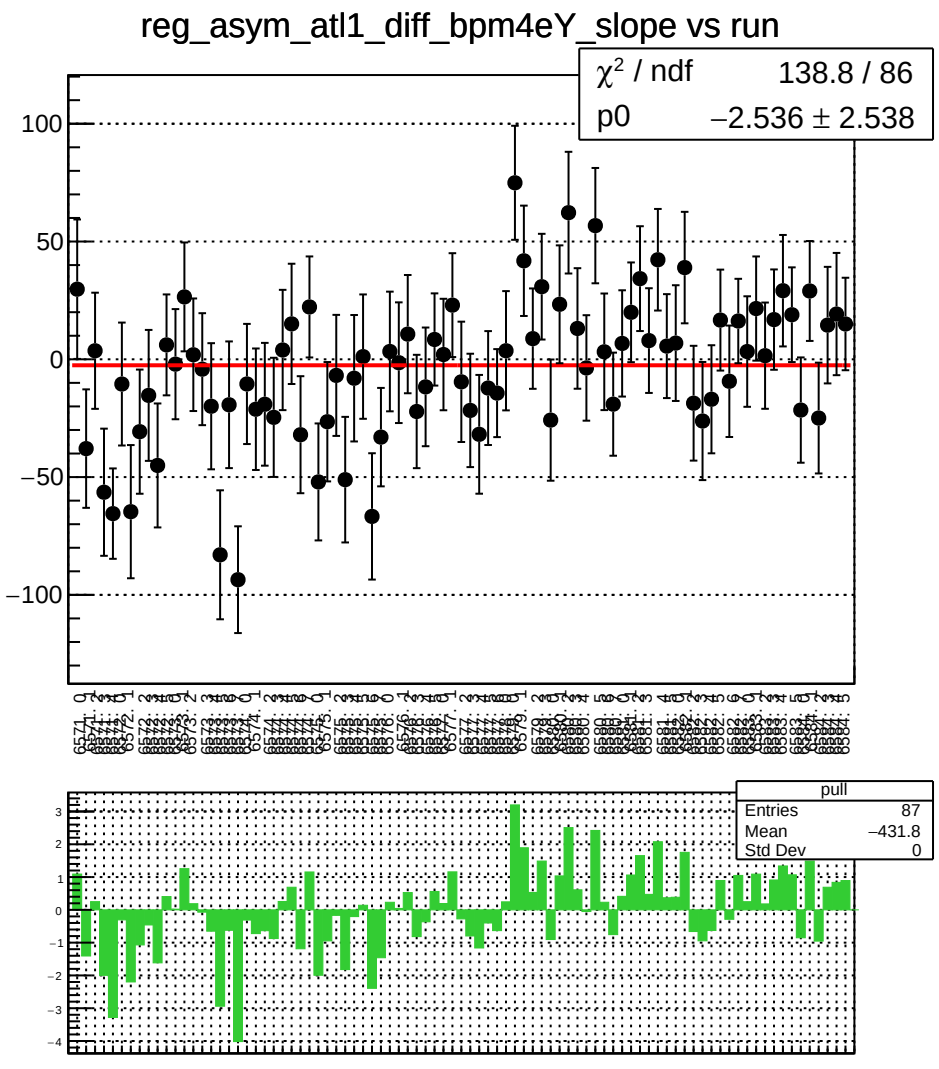

pull1D
Entries 87
Mean −0.02308
Std Dev 1.315

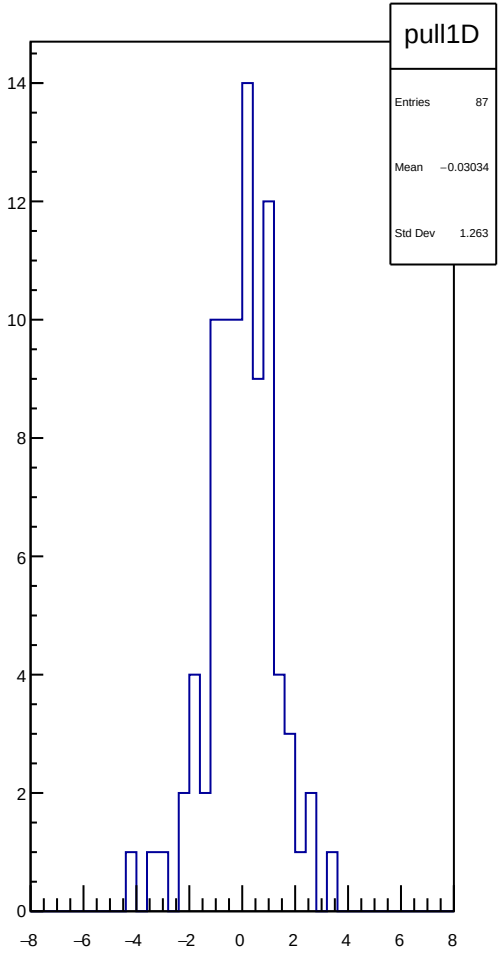

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 111.4 / 86
p0 6.48 ± 2.12
pull
Entries 87
Mean −705.8
Std Dev 0

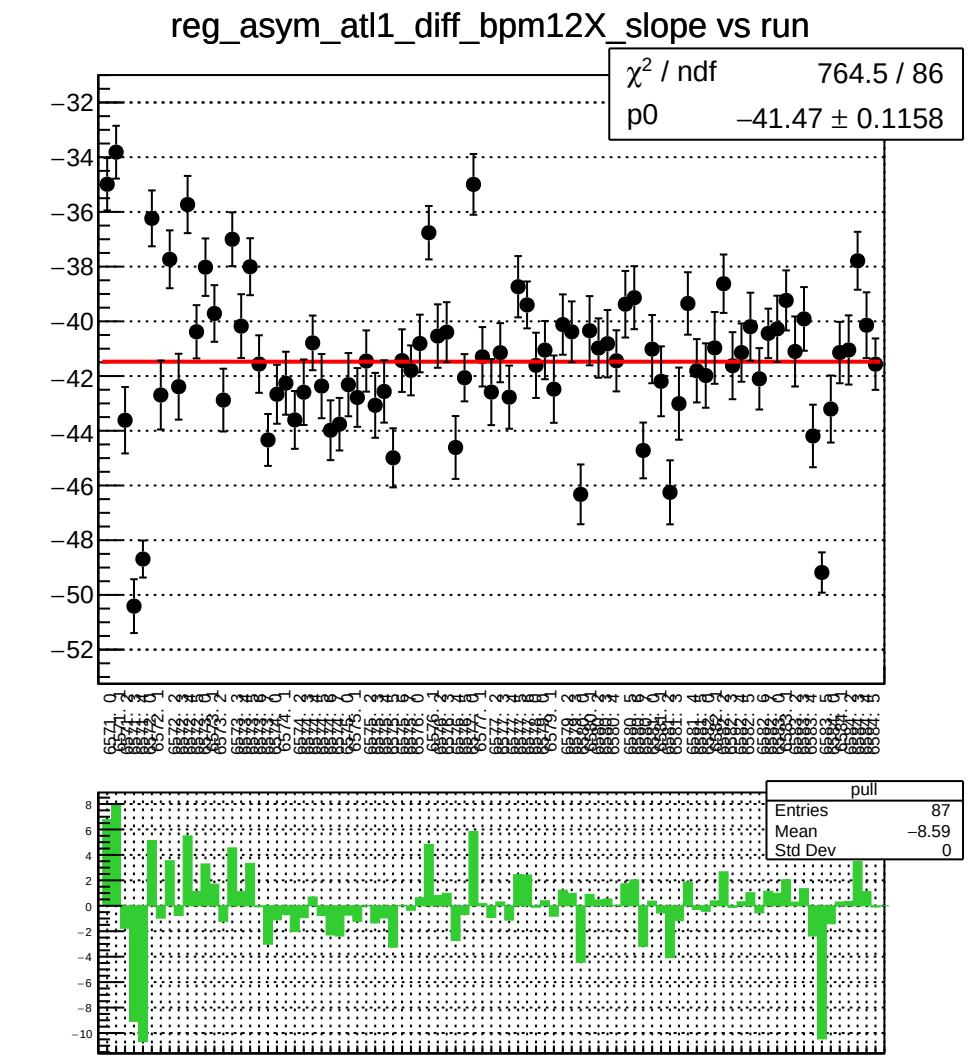

pull1D
Entries 87
Mean 0.01374
Std Dev 1.131

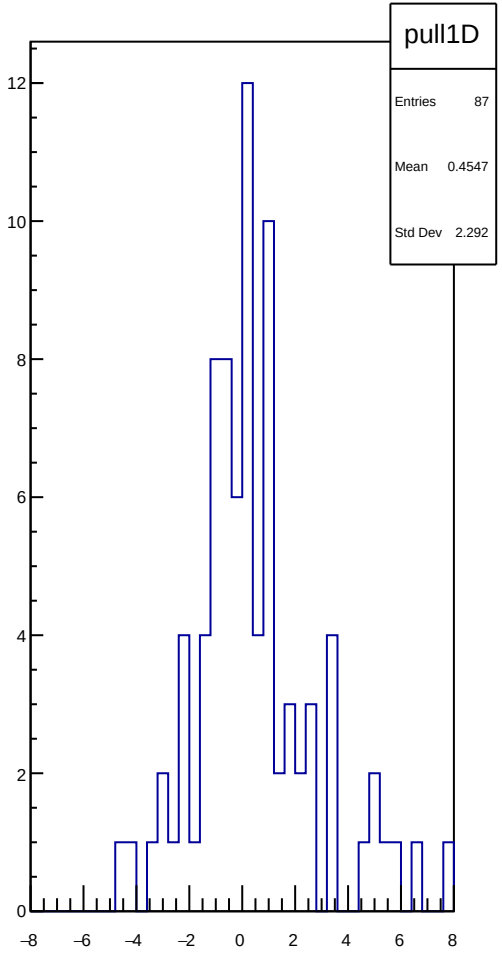

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 149.4 / 86
p0 82.55 ± 2.607
pull
Entries 87
Mean 29.22
Std Dev 0

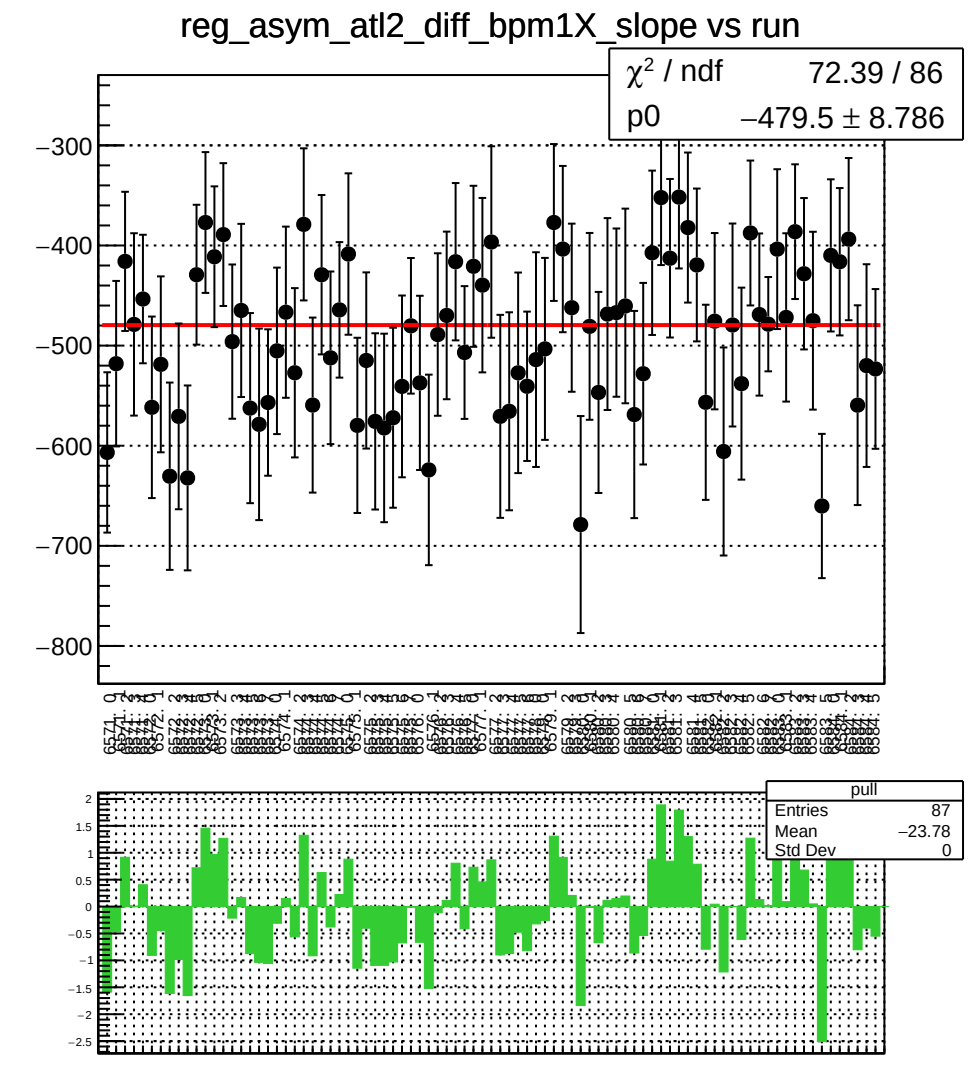

pull1D
Entries 87
Mean 0.03307
Std Dev 1.31

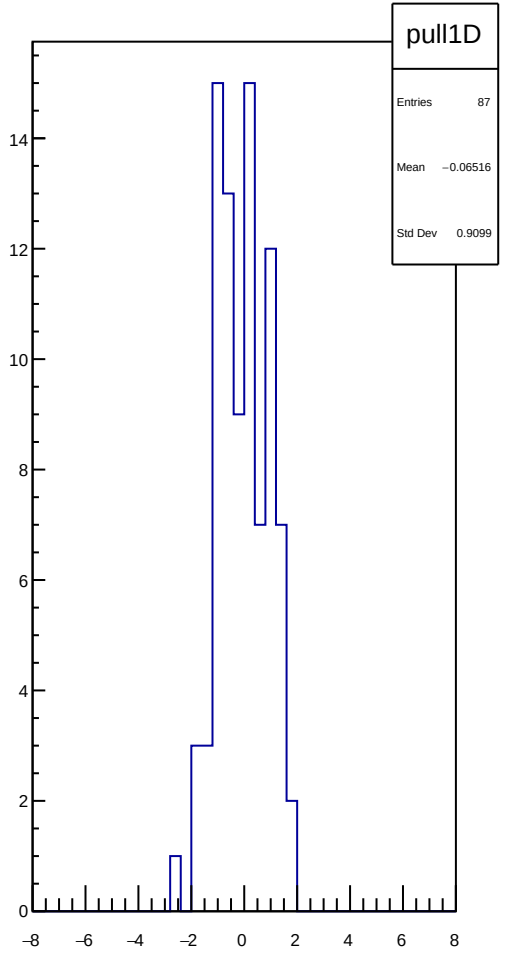

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 138.8 / 86
p0 −2.536 ± 2.538
100
50
0
−50
−100
pull
Entries 87
Mean −431.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4

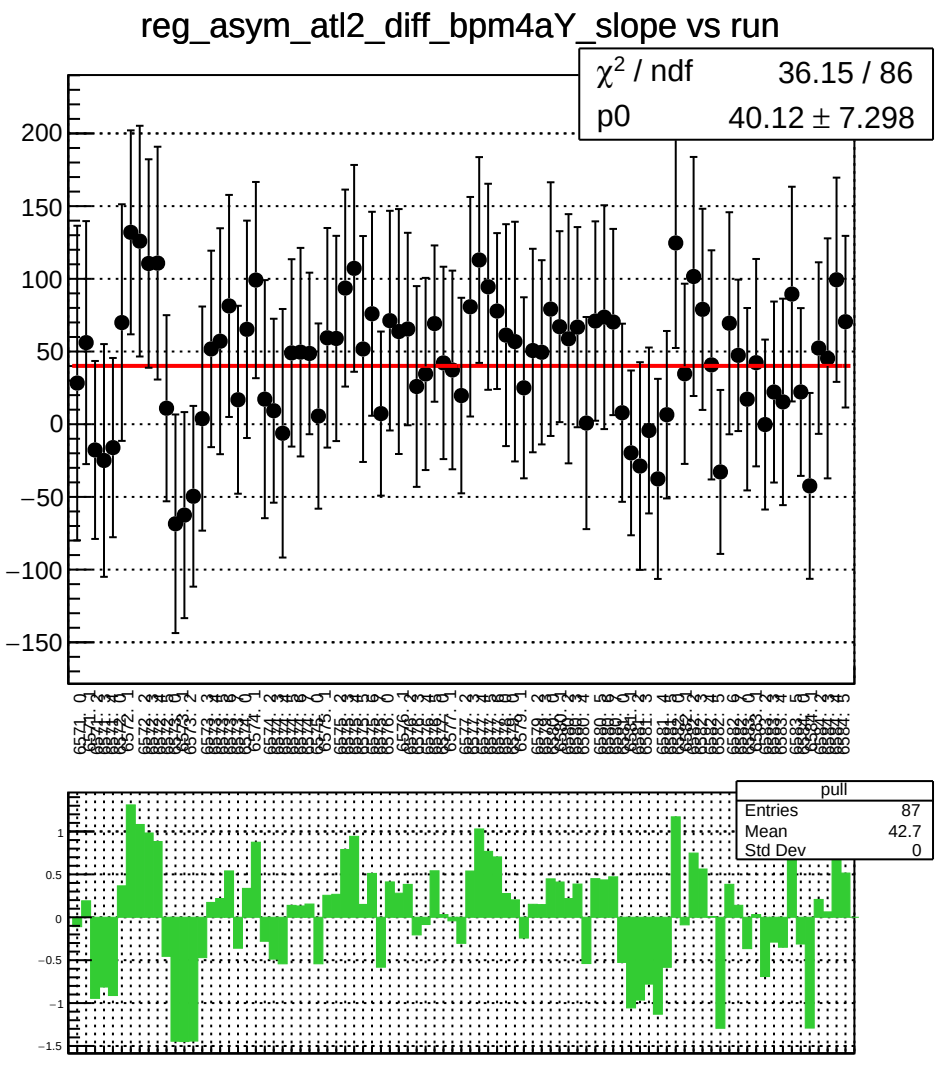

pull1D
Entries 87
Mean −0.03034
Std Dev 1.263
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

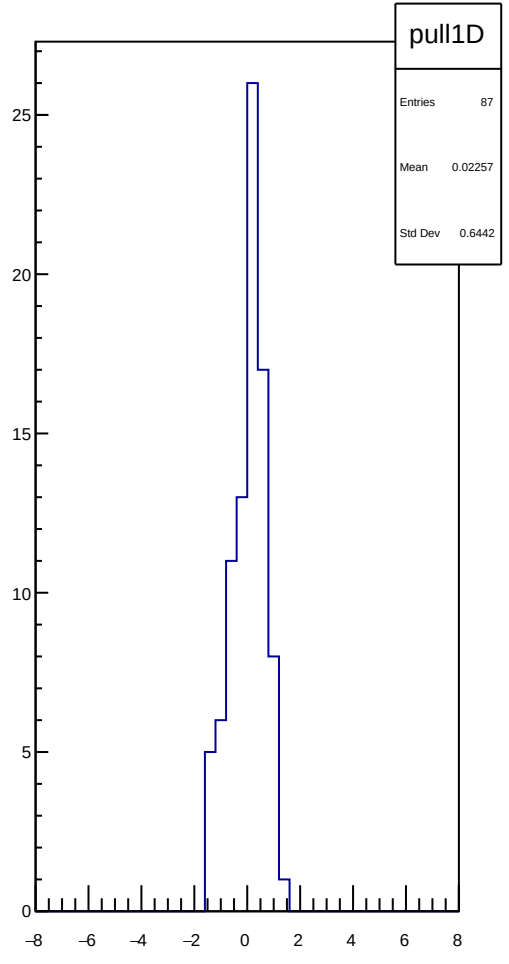

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 764.5 / 86
p0 −41.47 ± 0.1158
pull
Entries 87
Mean −8.59
Std Dev 0

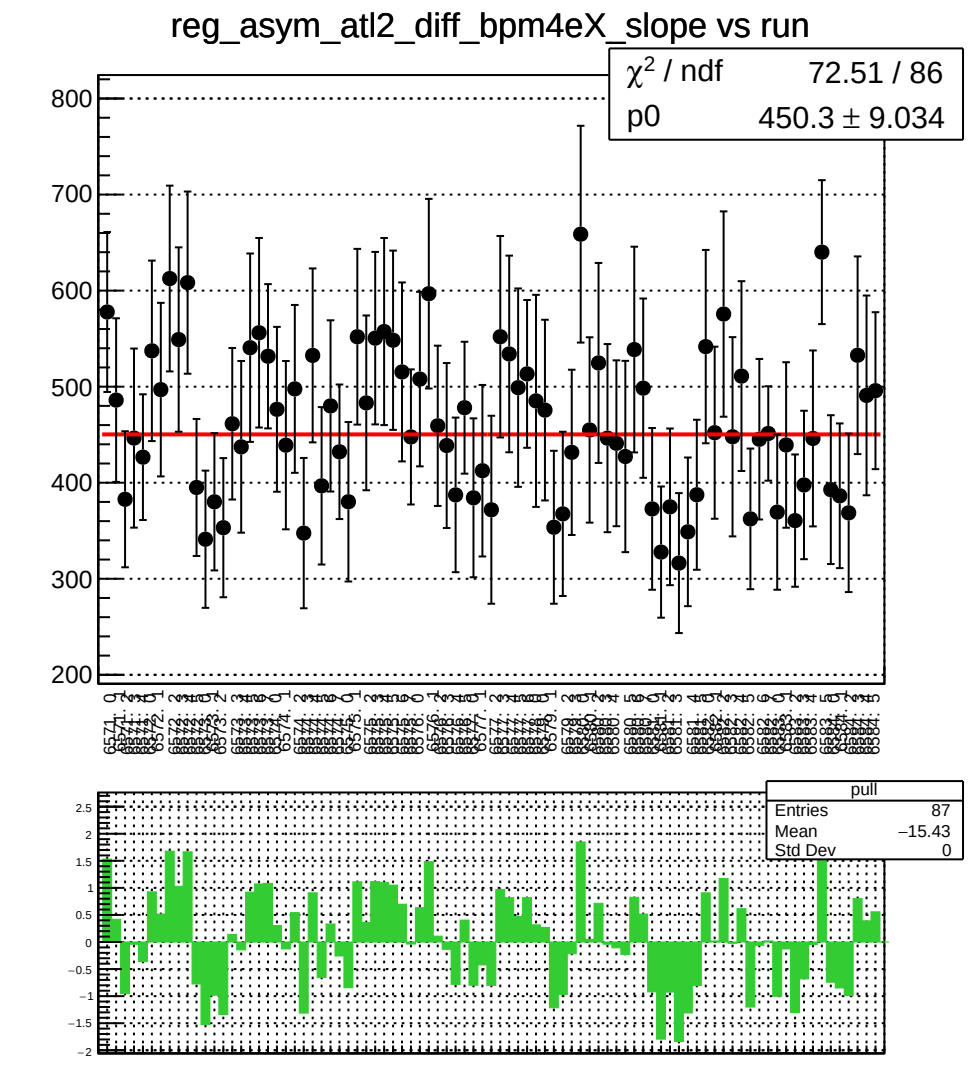

pull1D
Entries 87
Mean 0.4547
Std Dev 2.292

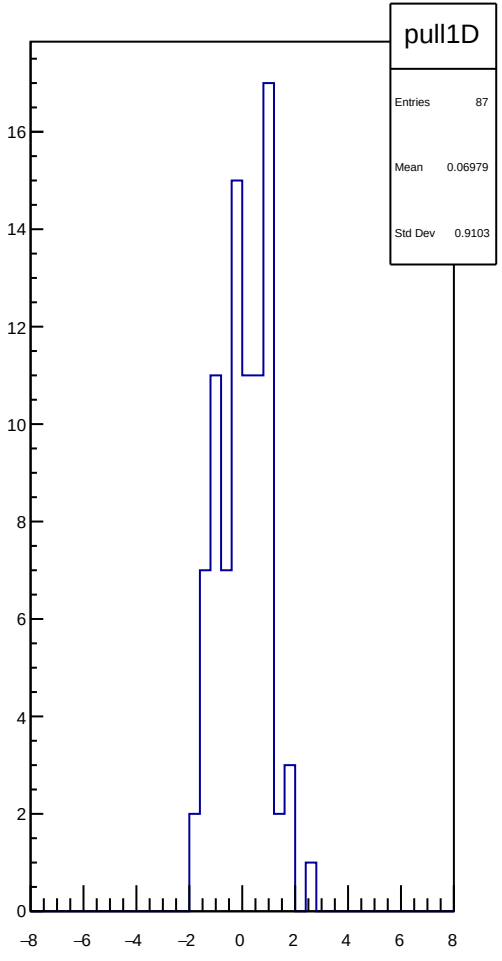

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 72.39 / 86
p0 −479.5 ± 8.786
−300
−400
−500
−600
−700
−800
pull
Entries 87
Mean −23.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

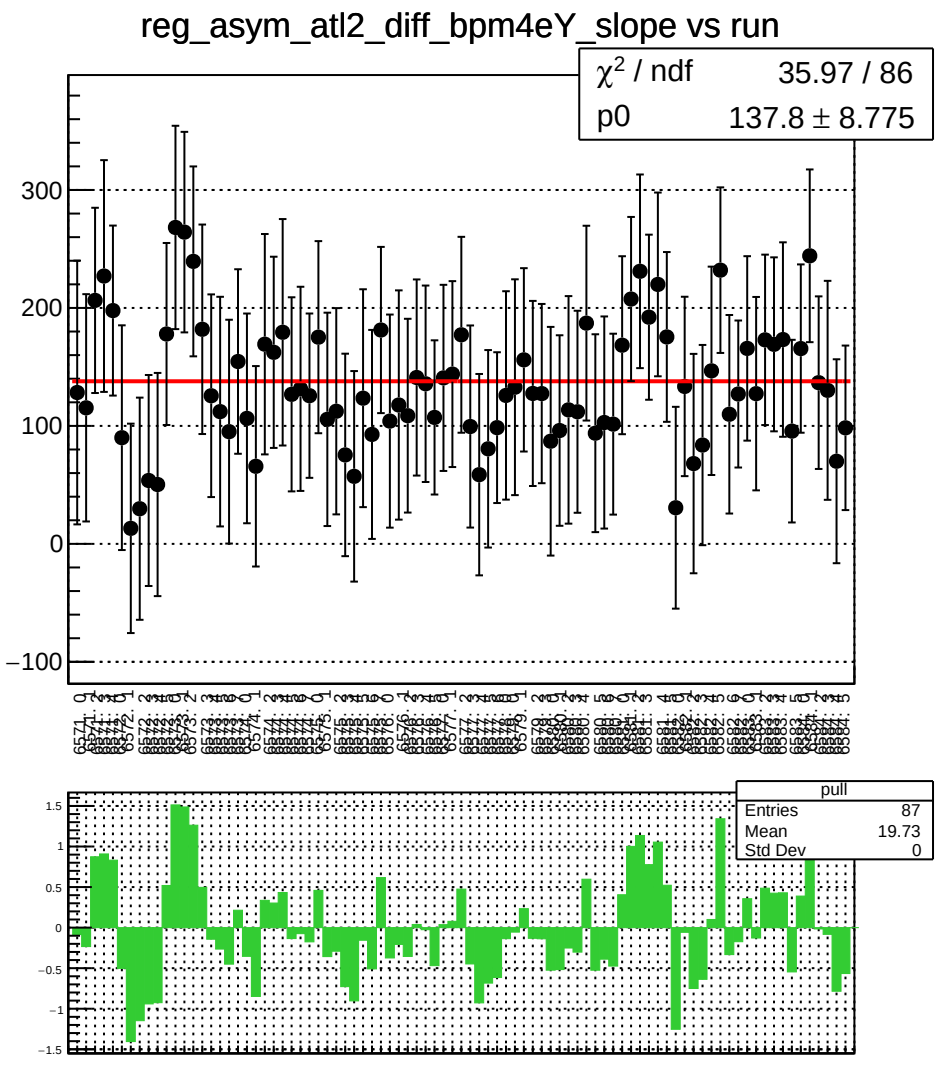

pull1D
Entries 87
Mean −0.06516
Std Dev 0.9099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

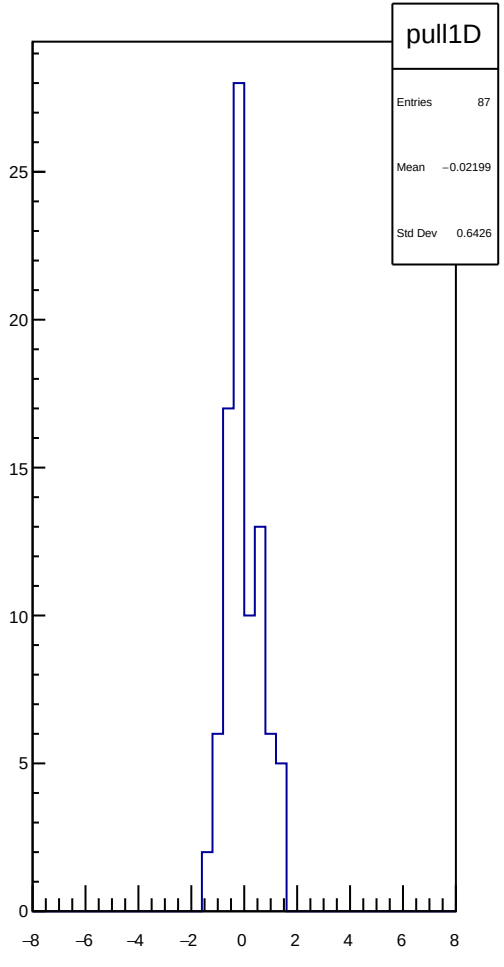

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 36.15 / 86
p0 40.12 ± 7.298
pull
Entries 87
Mean 42.7
Std Dev 0

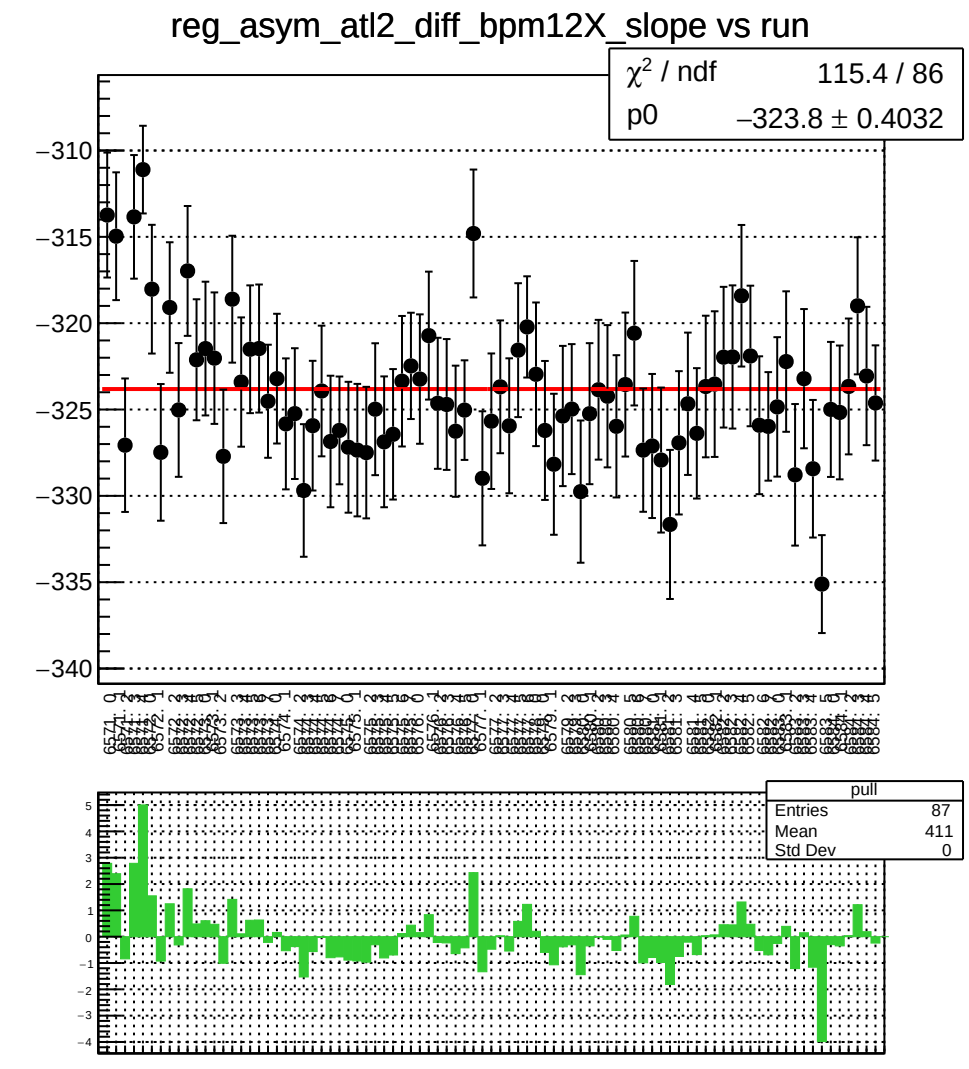

pull1D
Entries 87
Mean 0.02257
Std Dev 0.6442

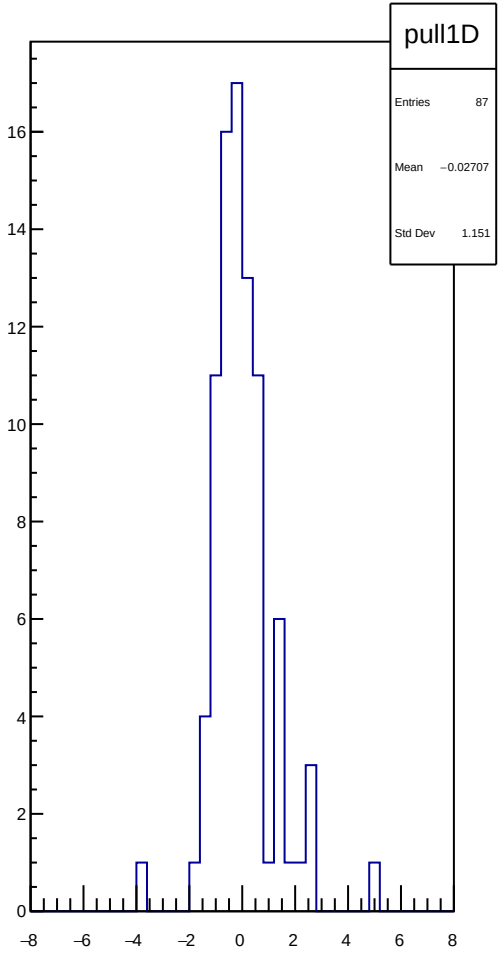

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 72.51 / 86
p0 450.3 ± 9.034
pull
Entries 87
Mean −15.43
Std Dev 0

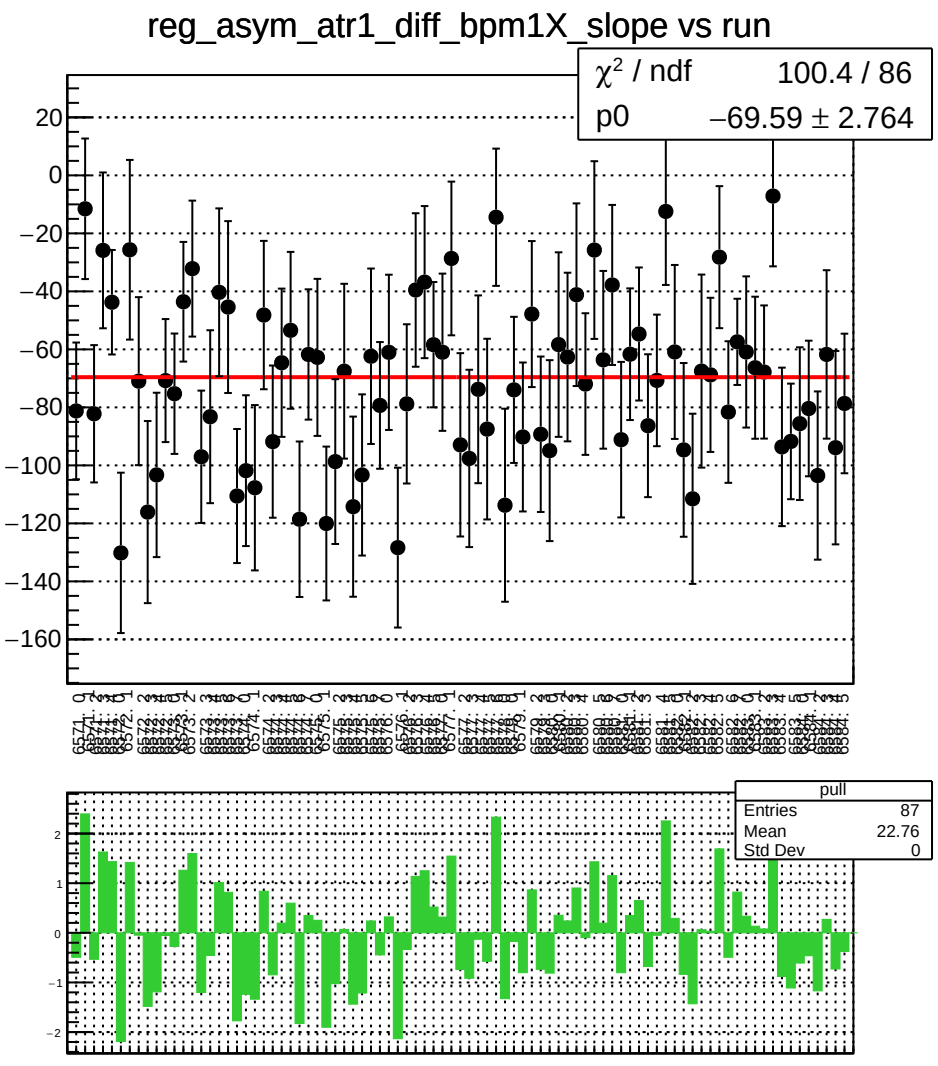

pull1D
Entries 87
Mean 0.06979
Std Dev 0.9103

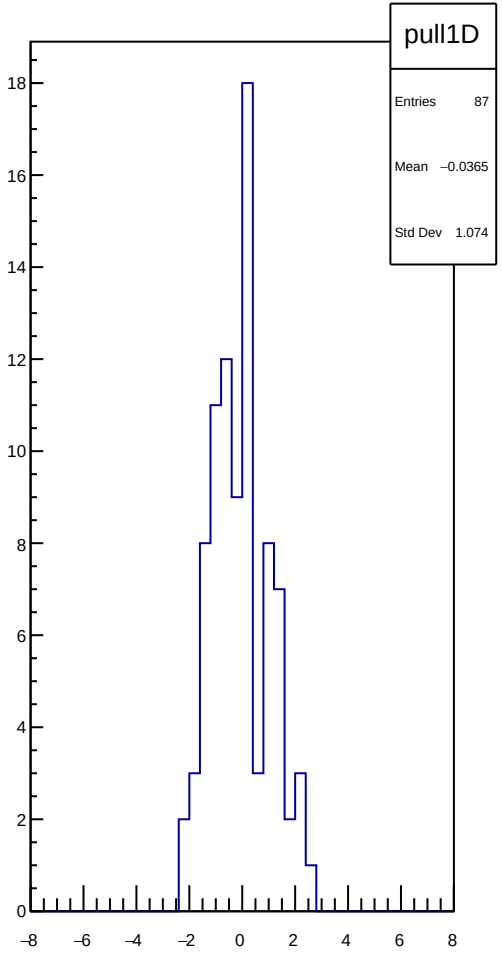

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 35.97 / 86
p0 137.8 ± 8.775
300
200
100
0
−100
pull
Entries 87
Mean 19.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

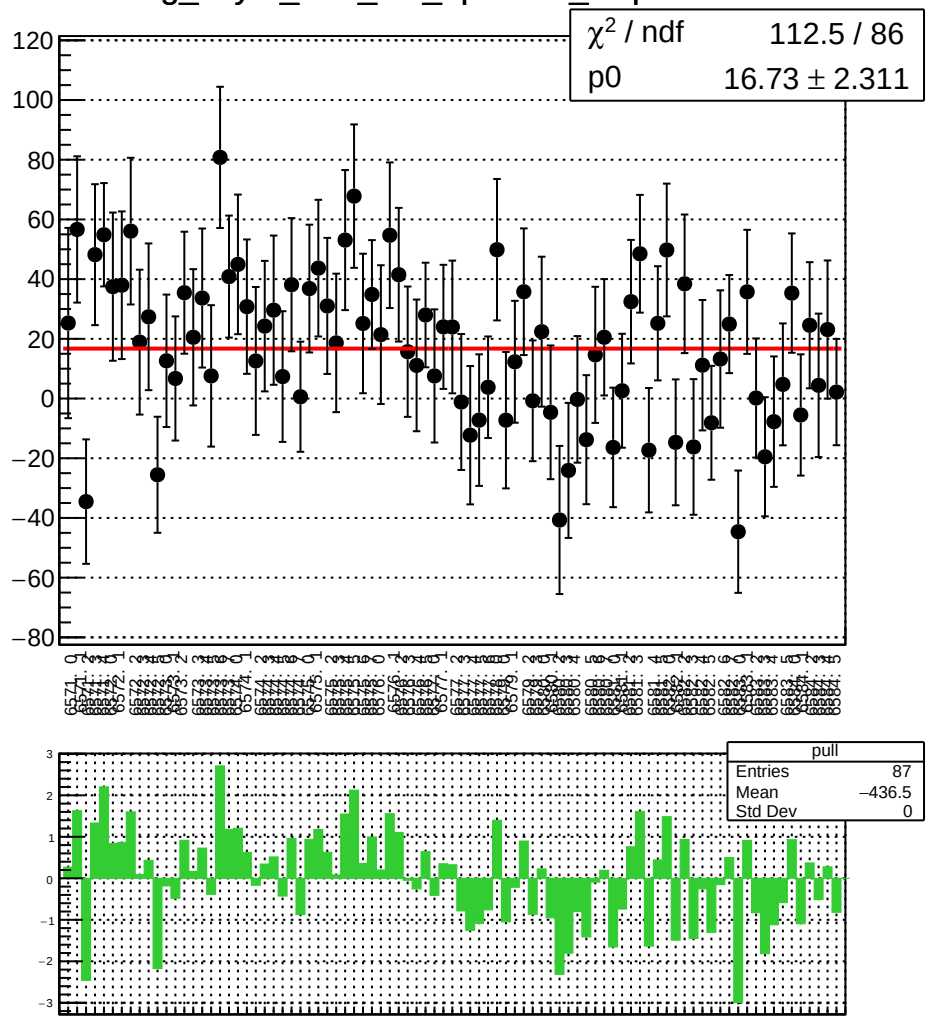

pull1D
Entries 87
Mean −0.02199
Std Dev 0.6426
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

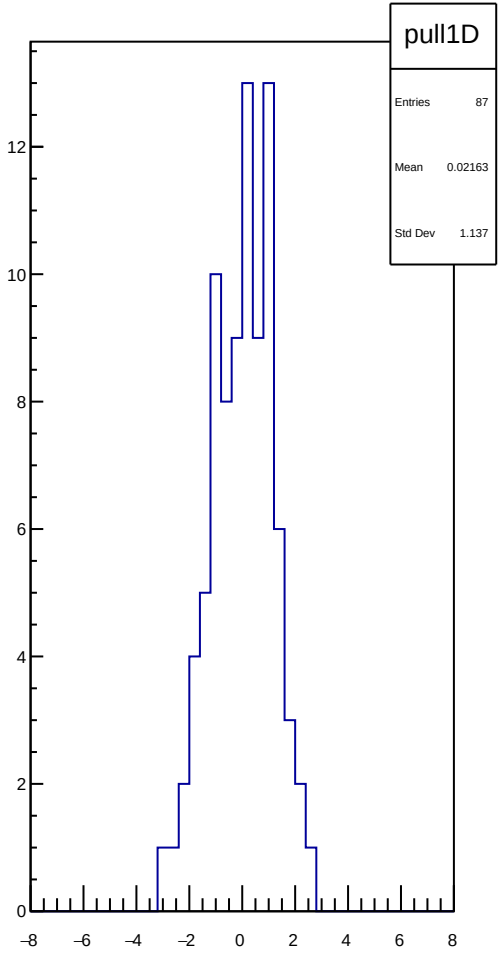

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 115.4 / 86
p0 −323.8 ± 0.4032
pull
Entries 87
Mean 411
Std Dev 0

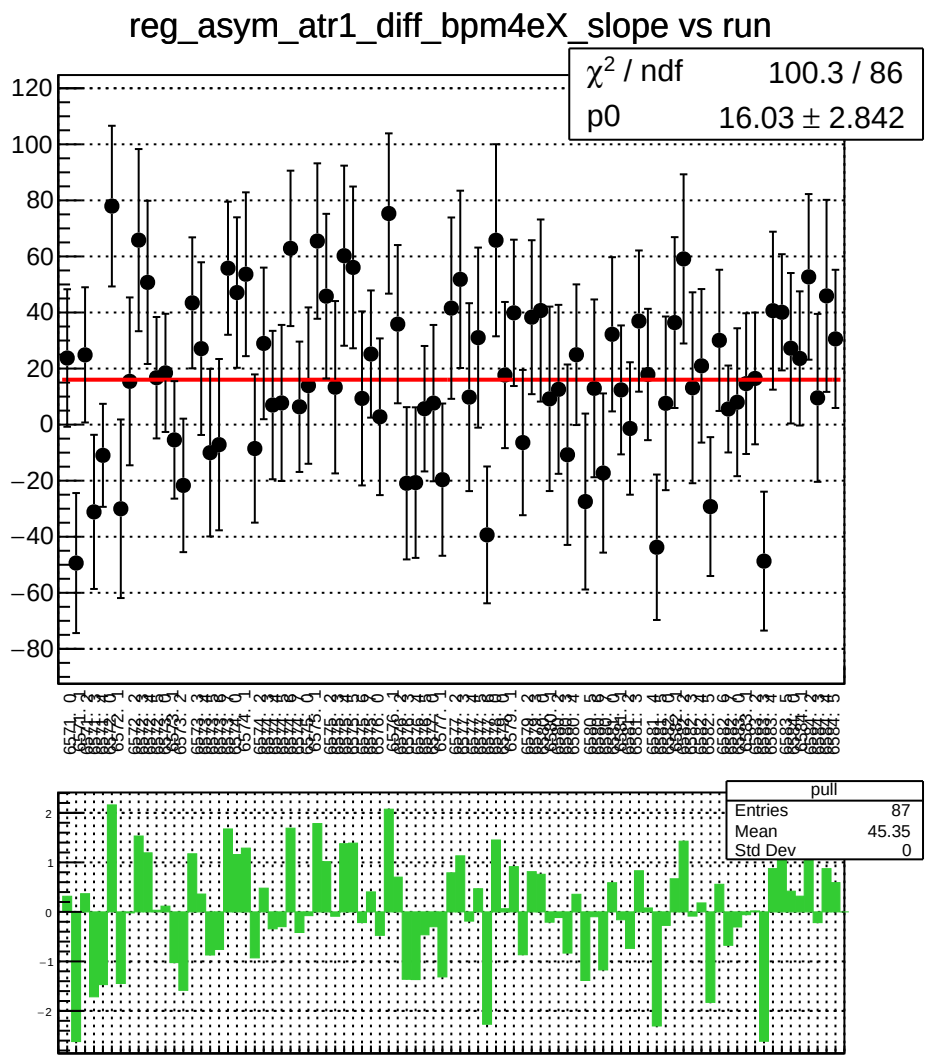

pull1D
Entries 87
Mean −0.02707
Std Dev 1.151

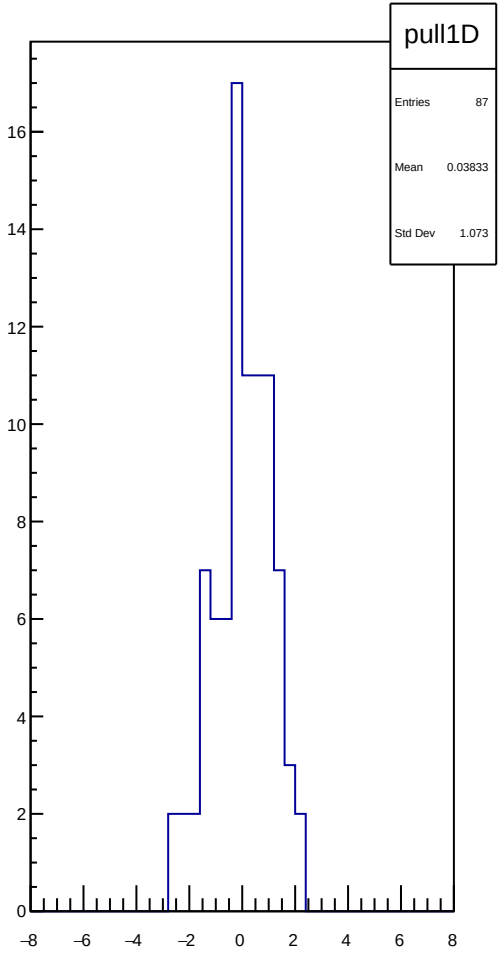

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 100.4 / 86
p0 −69.59 ± 2.764
pull
Entries 87
Mean 22.76
Std Dev 0

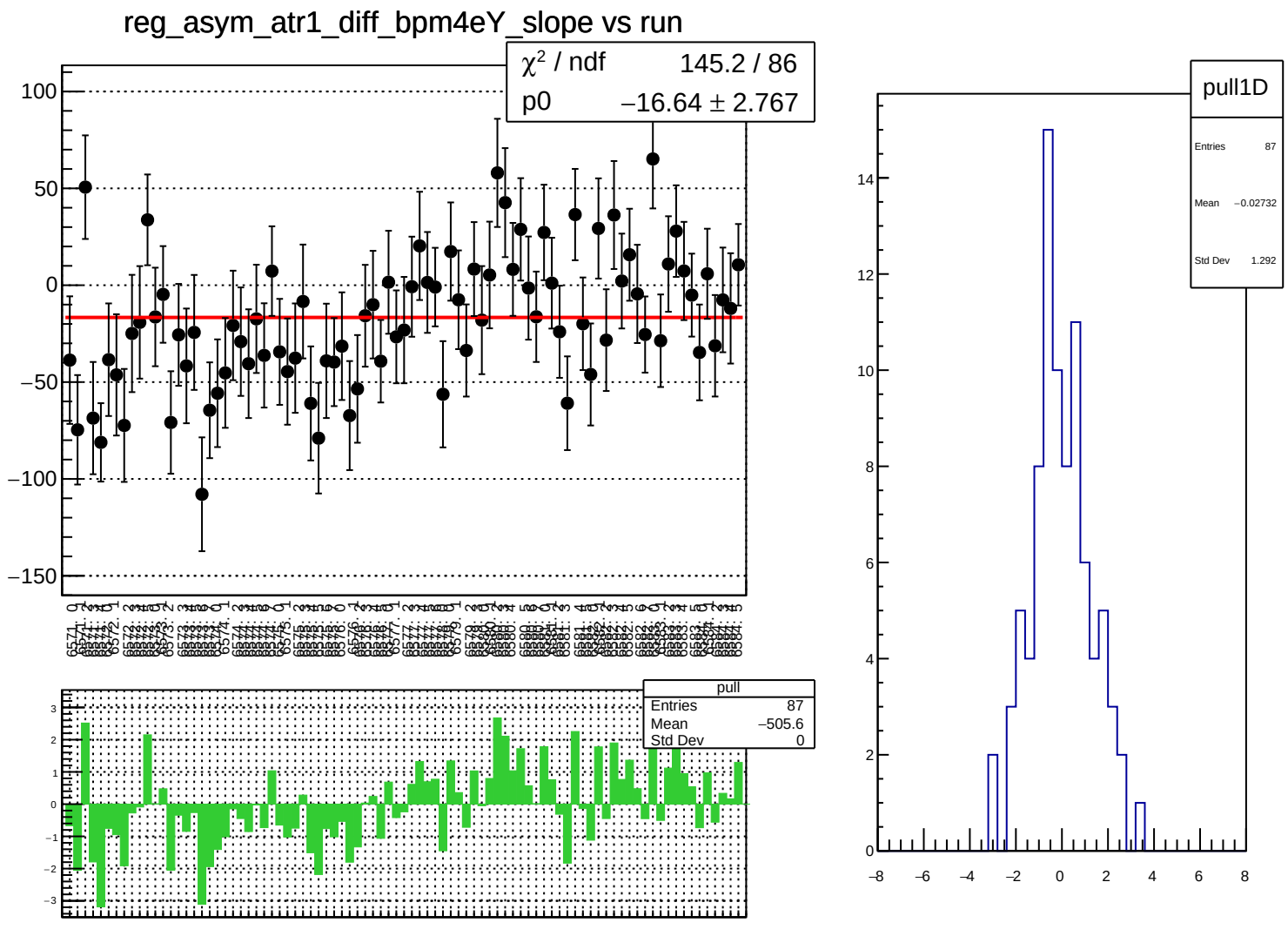

pull1D
Entries 87
Mean −0.0365
Std Dev 1.074

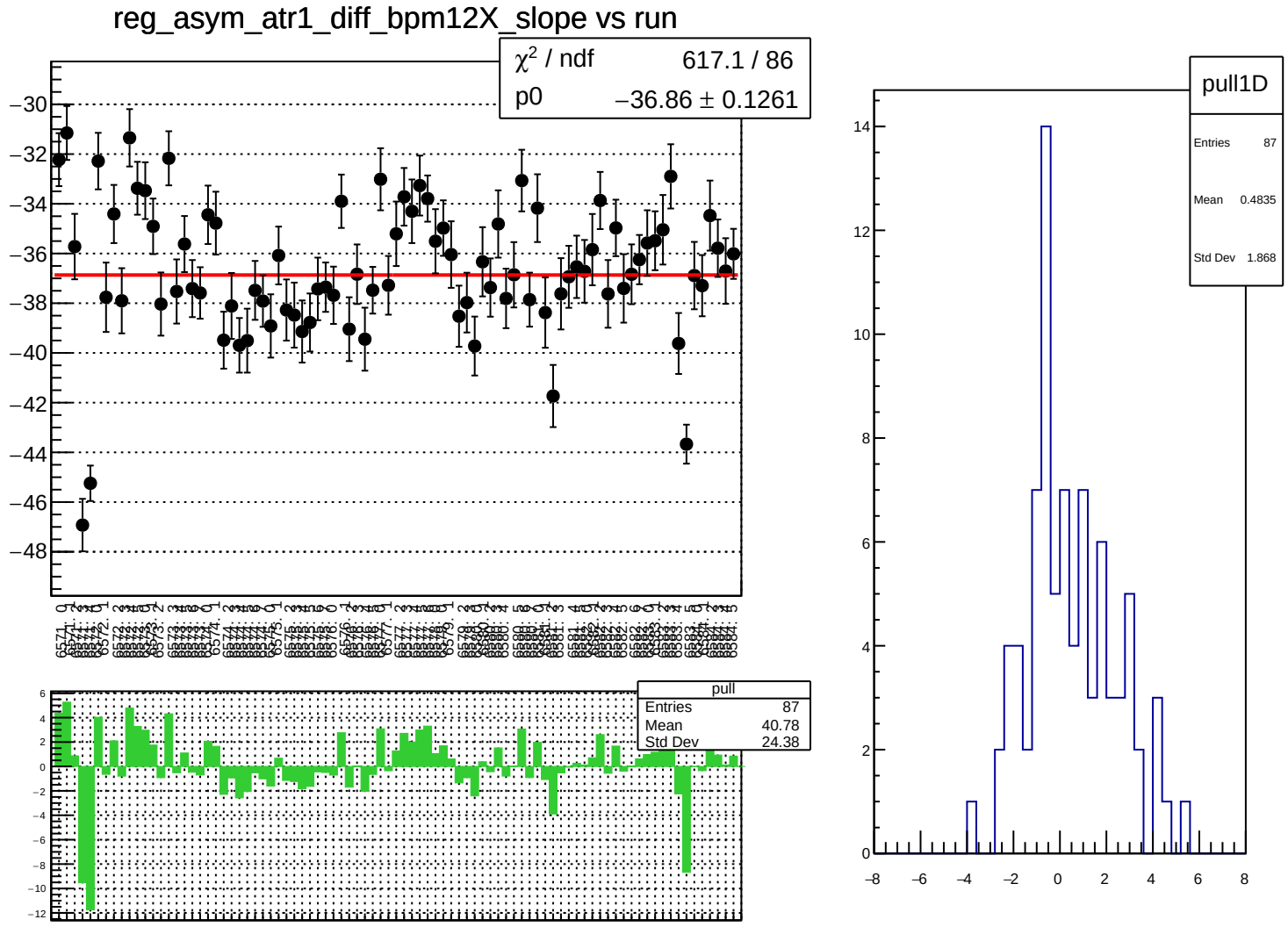

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 112.5 / 86
p0 16.73 ± 2.311
pull
Entries 87
Mean −436.5
Std Dev 0

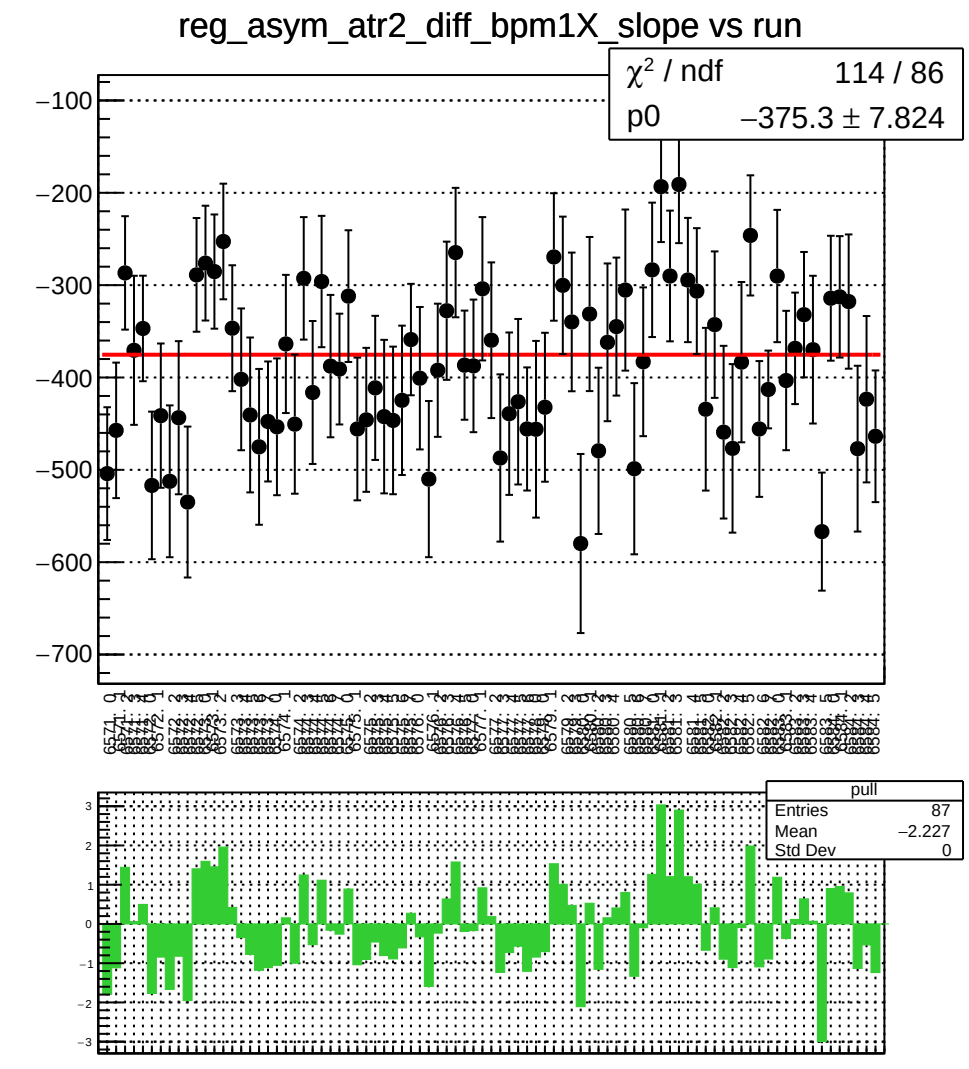

pull1D
Entries 87
Mean 0.02163
Std Dev 1.137

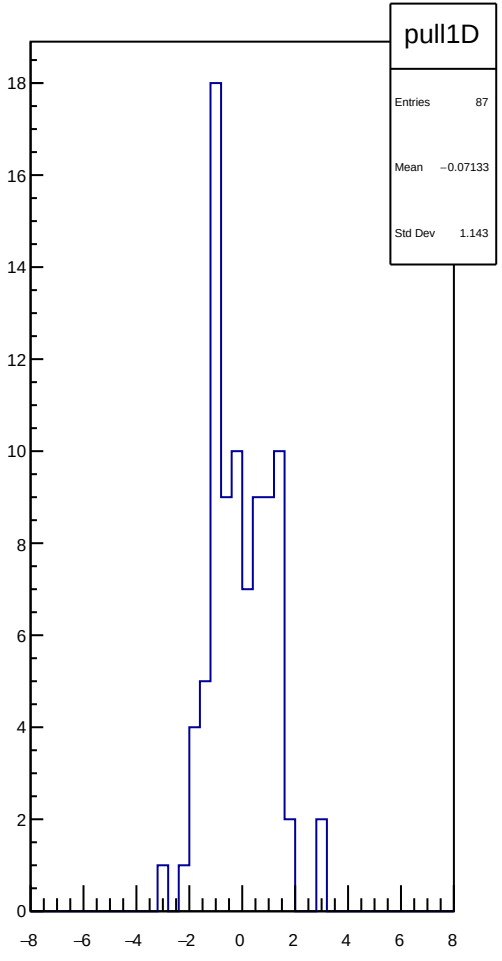

reg_asym_atr1_diff_bpm4eX_slope vs run
χ^2 / ndf 100.3 / 86
p0 16.03 ± 2.842
pull
Entries 87
Mean 45.35
Std Dev 0

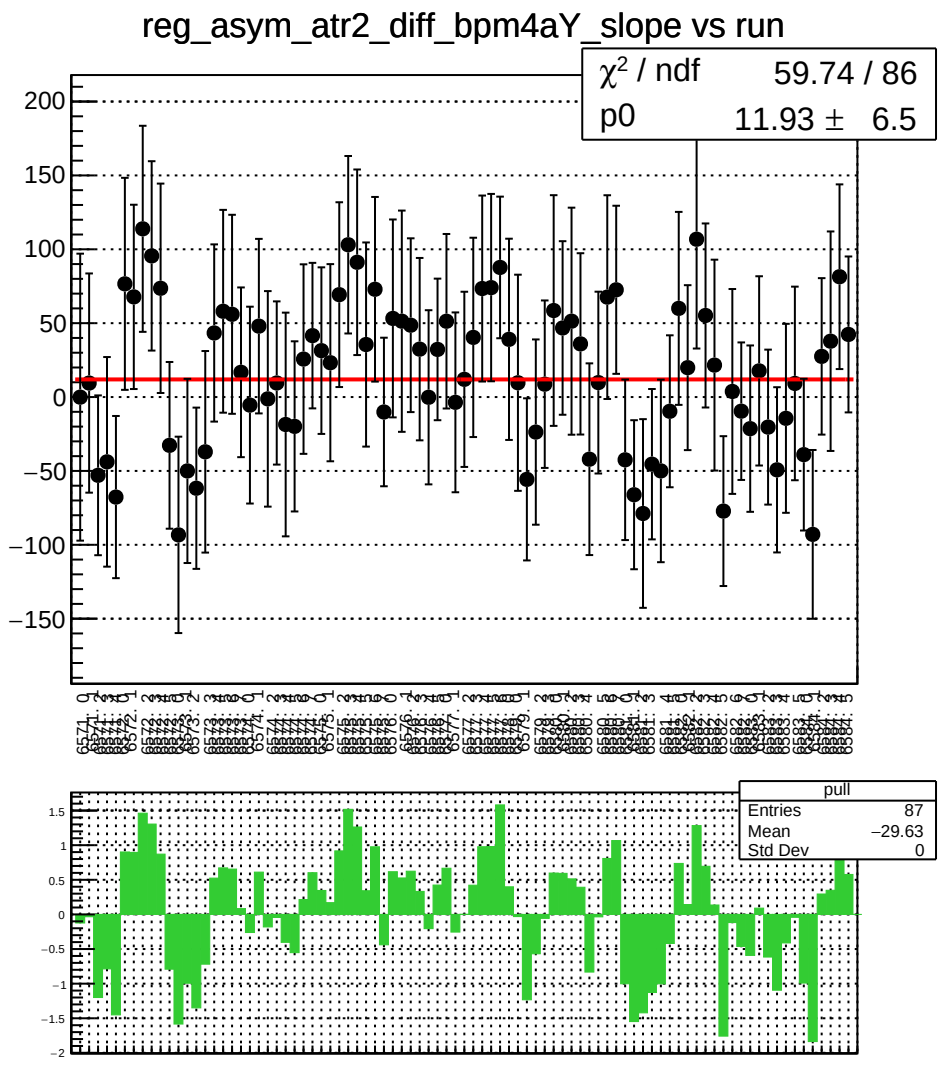

pull1D
Entries 87
Mean 0.03833
Std Dev 1.073

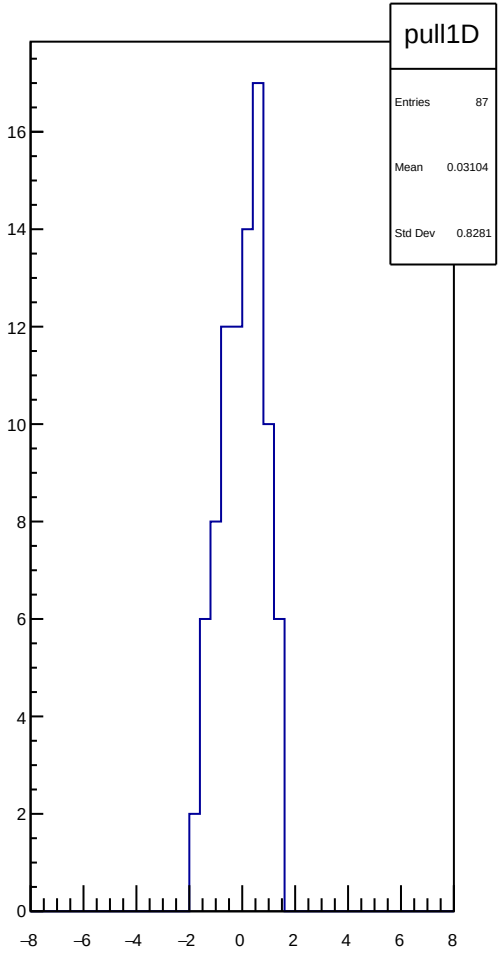

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 145.2 / 86
p0 −16.64 ± 2.767
pull
Entries 87
Mean −505.6
Std Dev 0
pull1D
Entries 87
Mean −0.02732
Std Dev 1.292

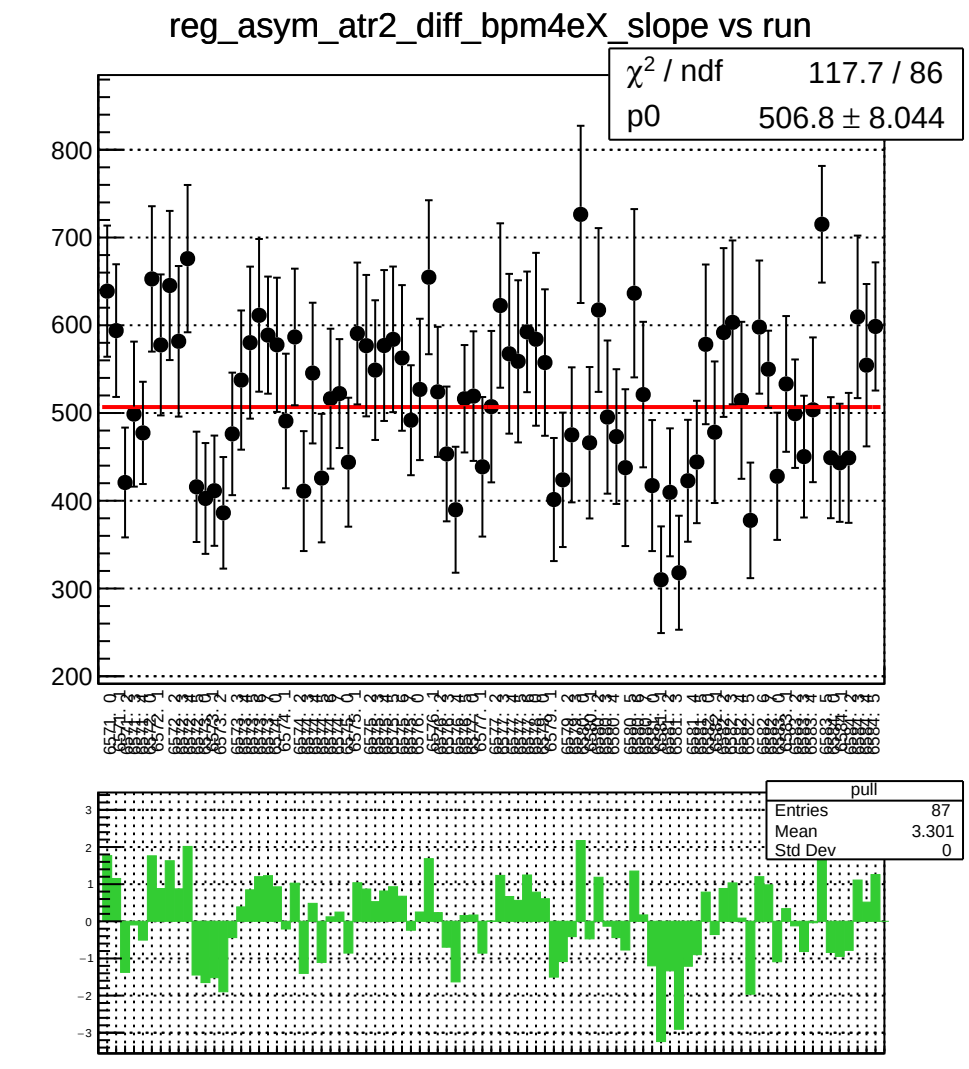

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 617.1 / 86
p0 −36.86 ± 0.1261
pull
Entries 87
Mean 40.78
Std Dev 24.38
pull1D
Entries 87
Mean 0.4835
Std Dev 1.868

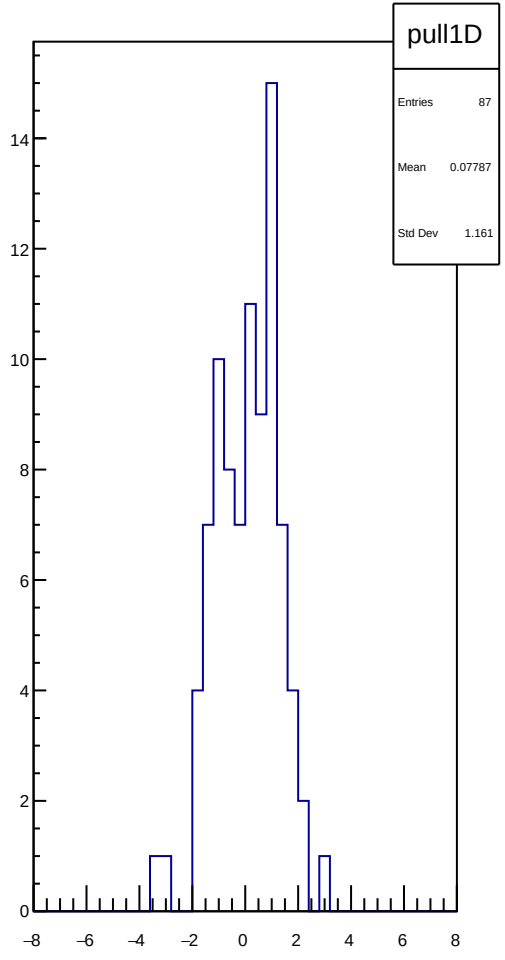

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 114 / 86
p0 −375.3 ± 7.824
pull
Entries 87
Mean −2.227
Std Dev 0

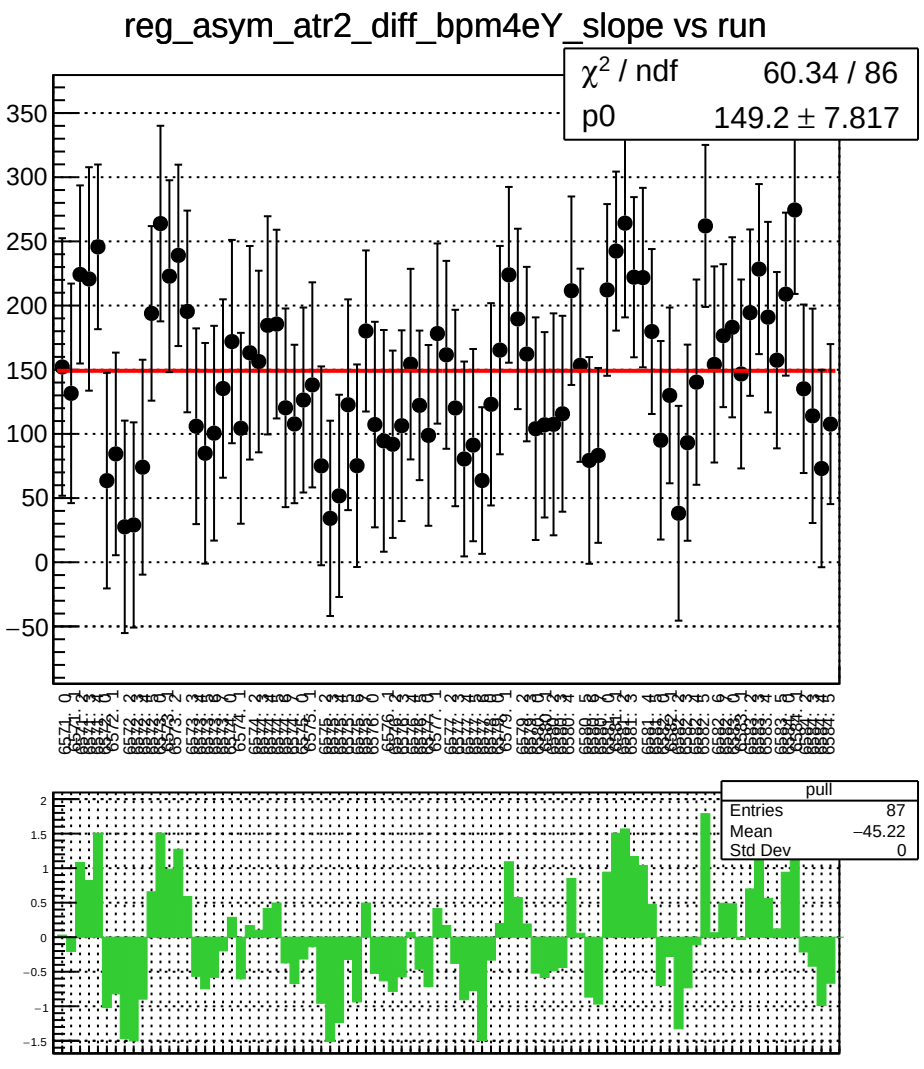

pull1D
Entries 87
Mean −0.07133
Std Dev 1.143

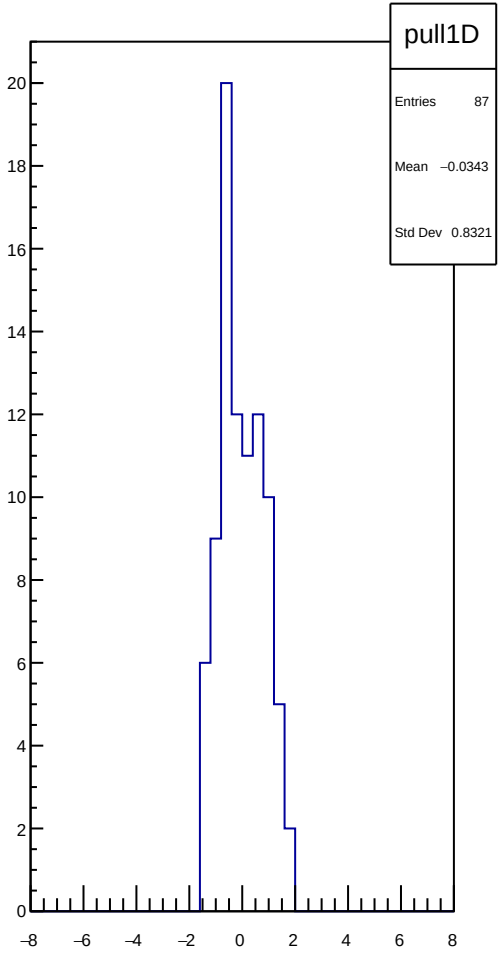

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 59.74 / 86
p0 11.93 ± 6.5
pull
Entries 87
Mean −29.63
Std Dev 0

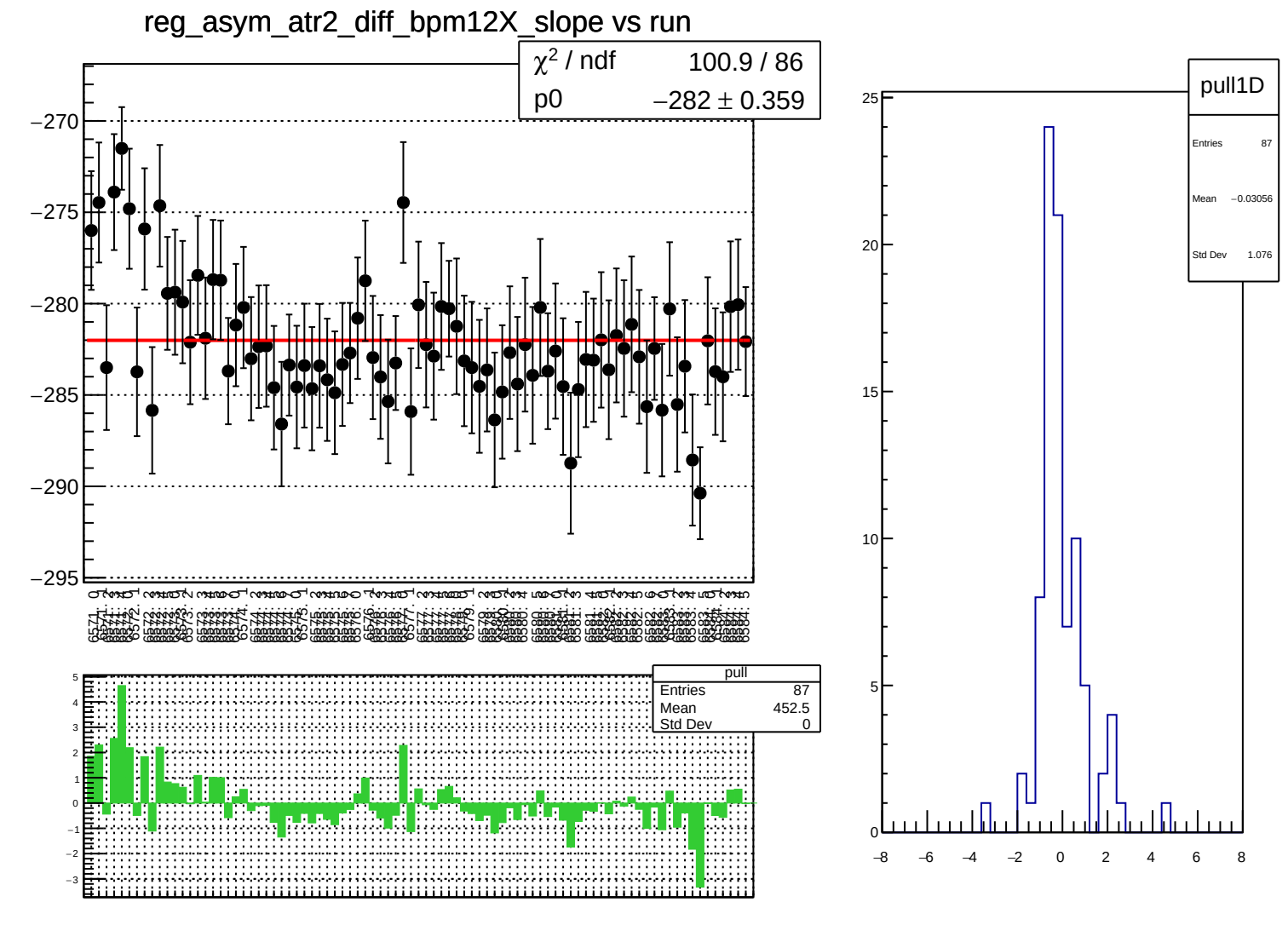

pull1D
Entries 87
Mean 0.03104
Std Dev 0.8281

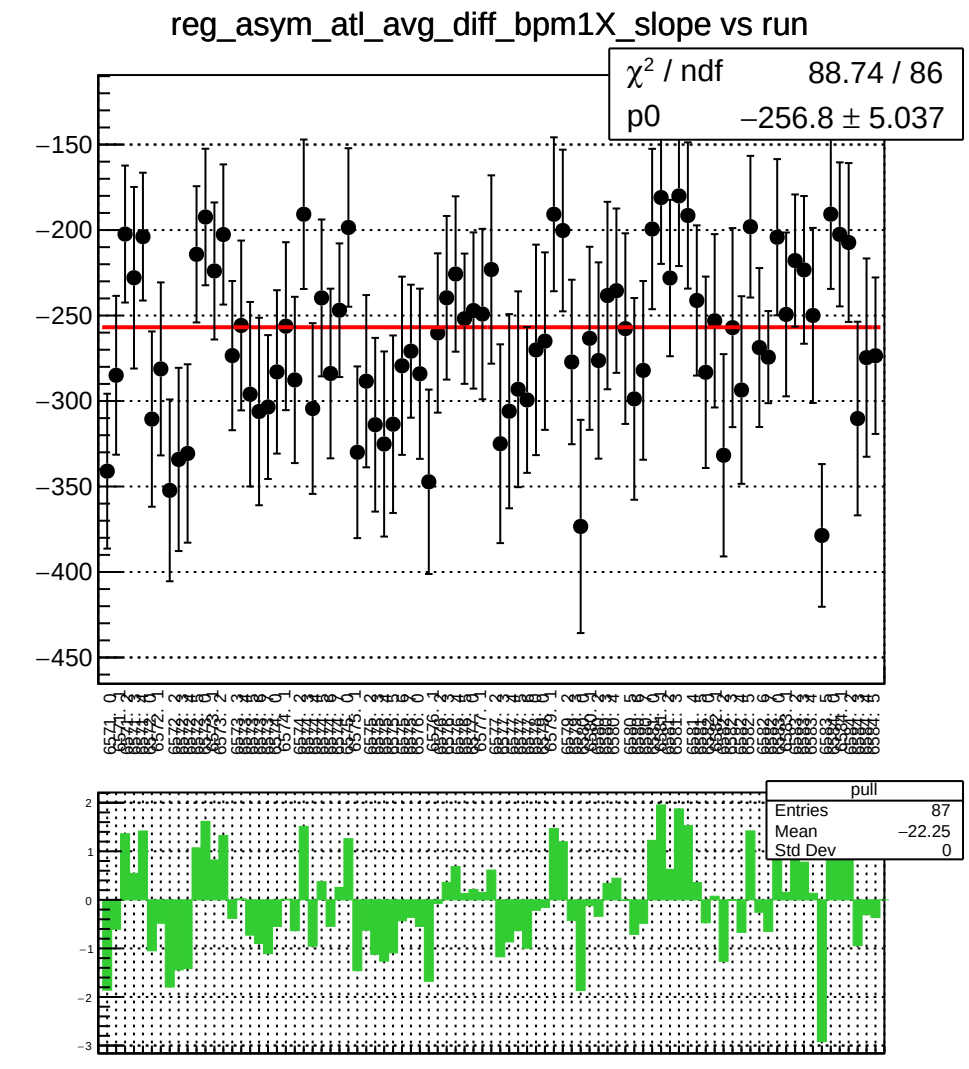

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 117.7 / 86
p0 506.8 ± 8.044
800
700
600
500
400
300
200
pull
Entries 87
Mean 3.301
Std Dev 0
3
2
1
0
−1
−2
−3

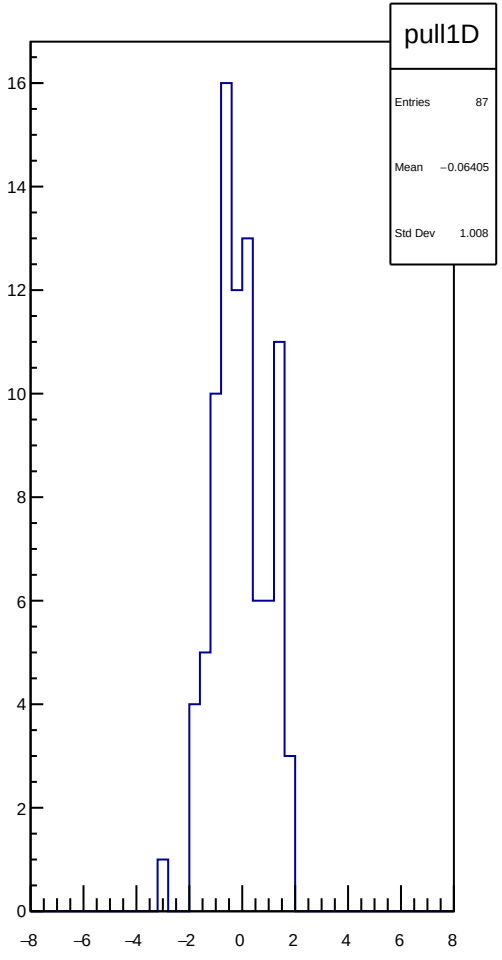

pull1D
Entries 87
Mean 0.07787
Std Dev 1.161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

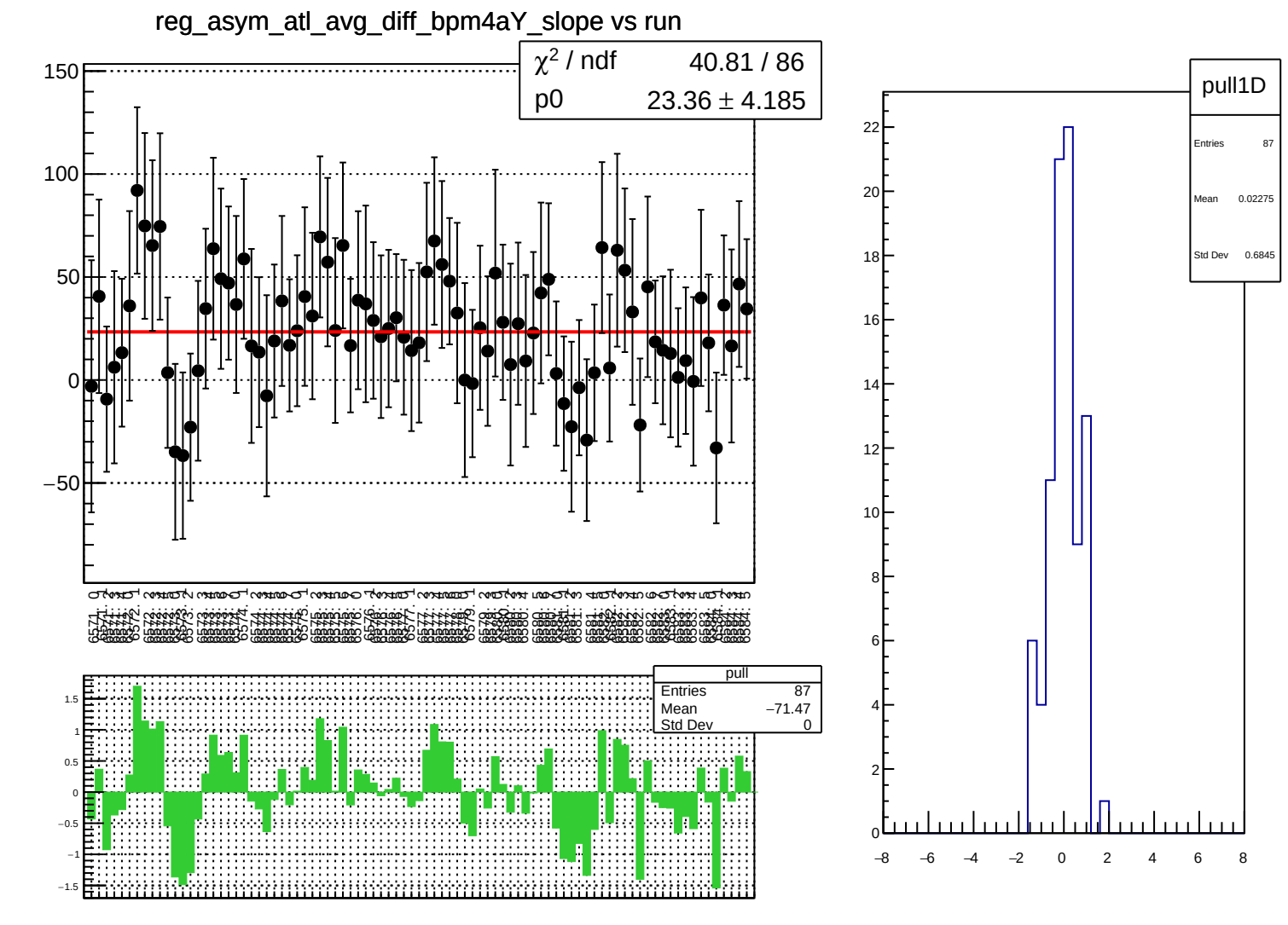

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 60.34 / 86
p0 149.2 ± 7.817
pull
Entries 87
Mean −45.22
Std Dev 0

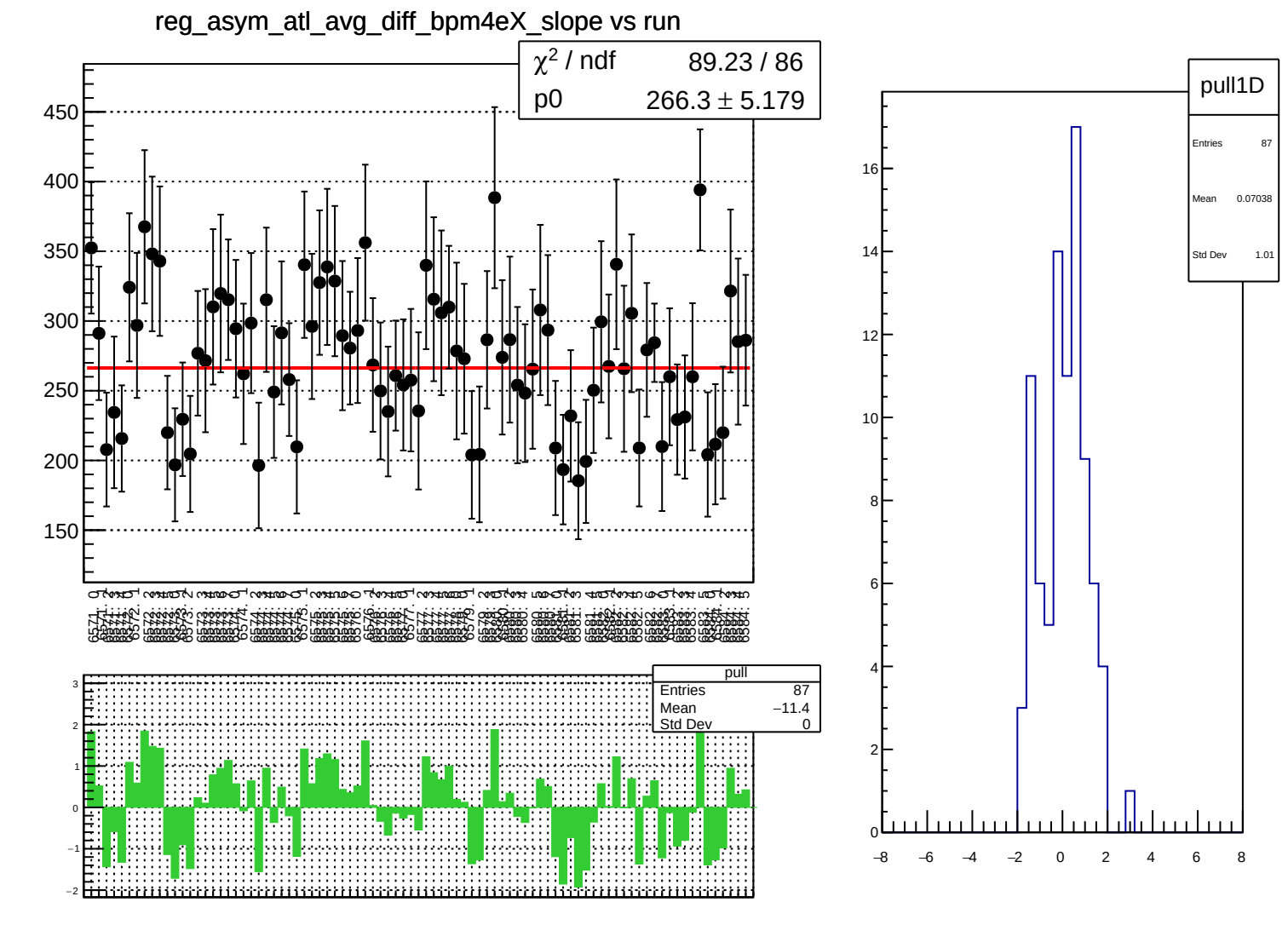

pull1D
Entries 87
Mean −0.0343
Std Dev 0.8321

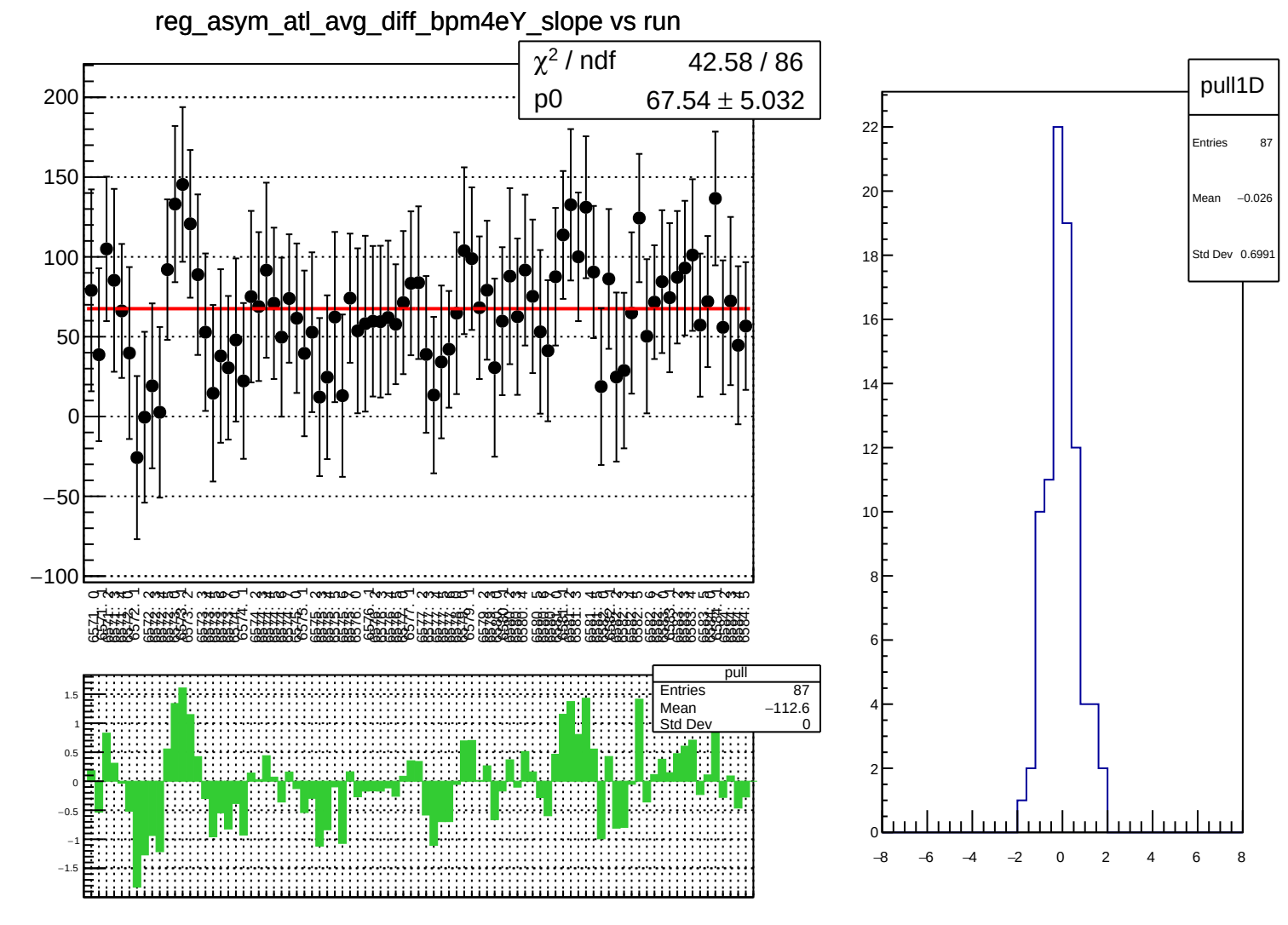

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 100.9 / 86
p0 −282 ± 0.359
−270
−275
−280
−285
−290
−295
pull
Entries 87
Mean 452.5
Std Dev 0
pull1D
Entries 87
Mean −0.03056
Std Dev 1.076
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

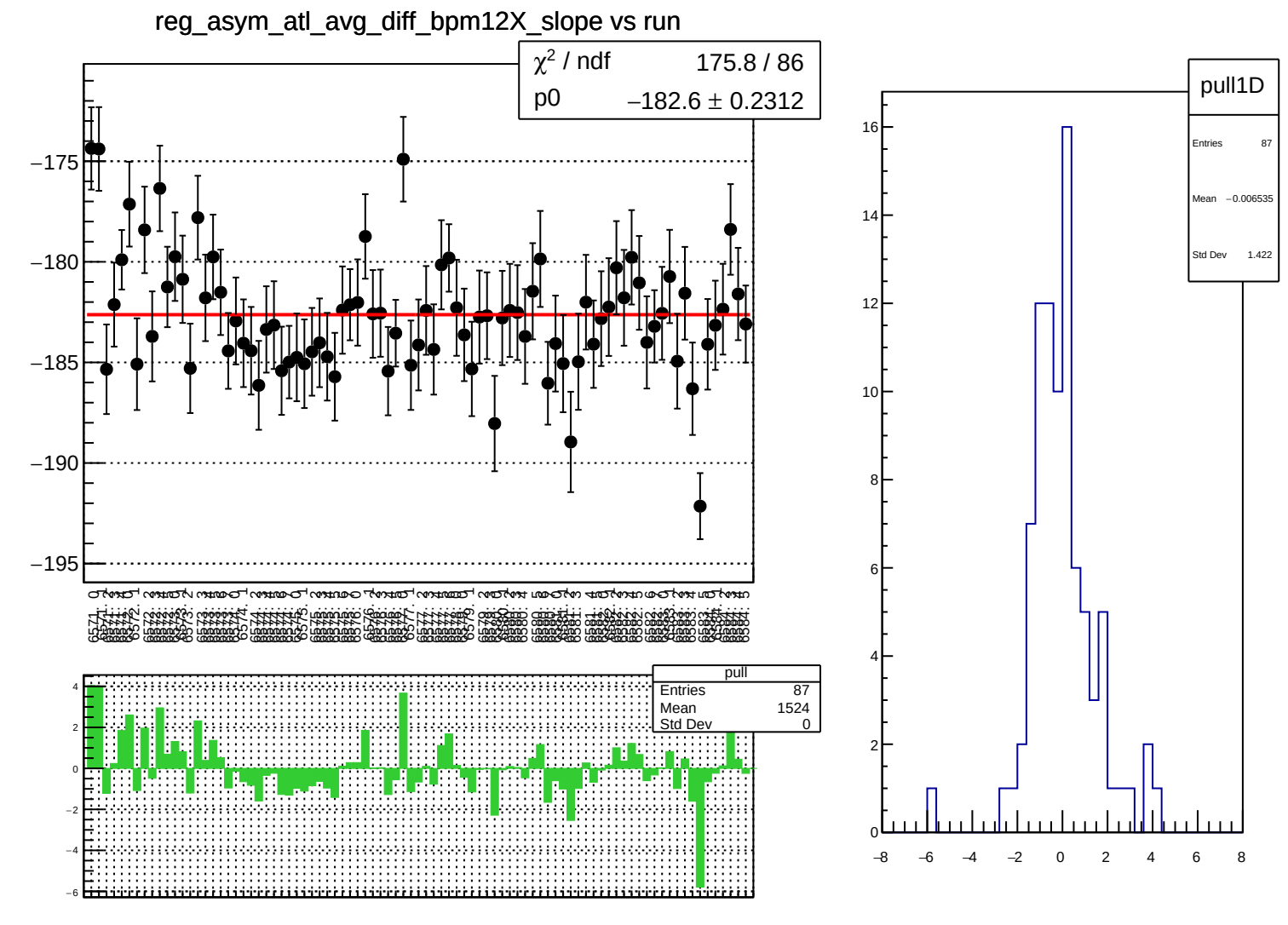

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 88.74 / 86
p0 −256.8 ± 5.037
pull
Entries 87
Mean −22.25
Std Dev 0

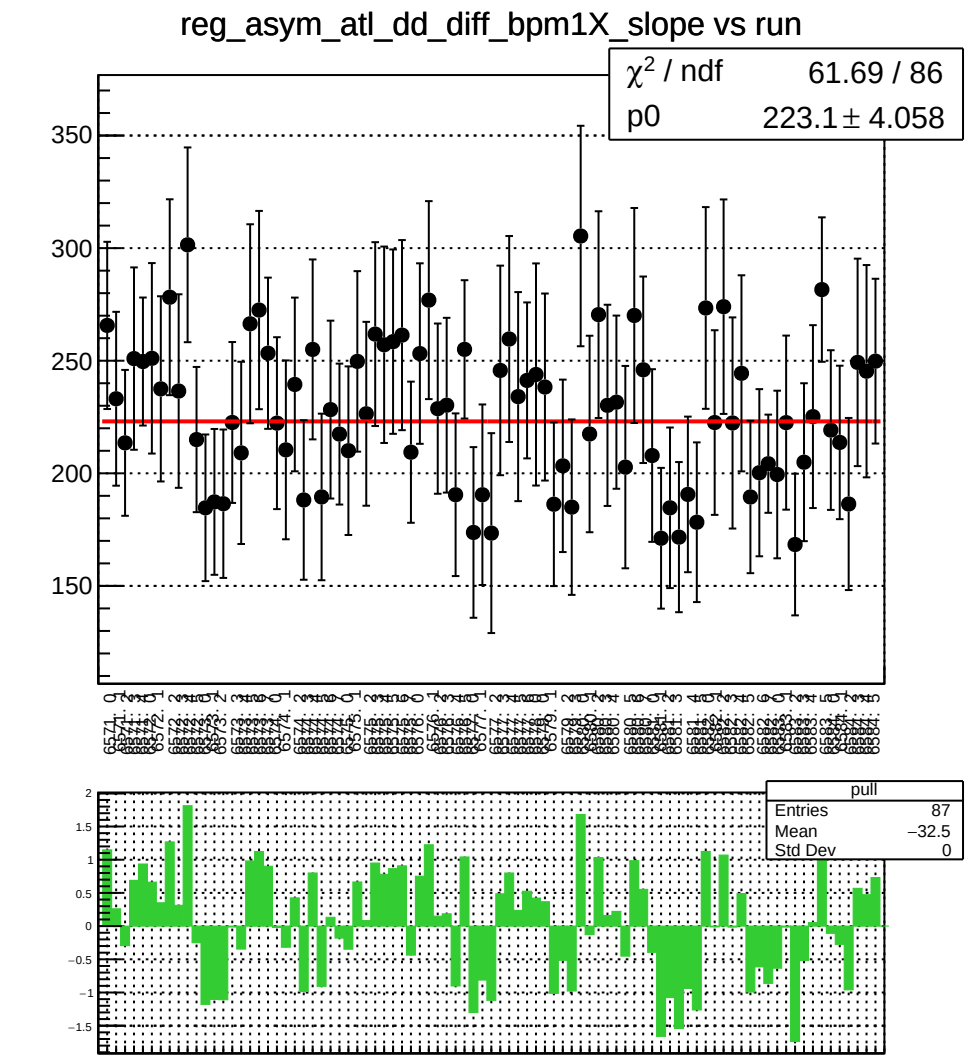

pull1D
Entries 87
Mean −0.06405
Std Dev 1.008

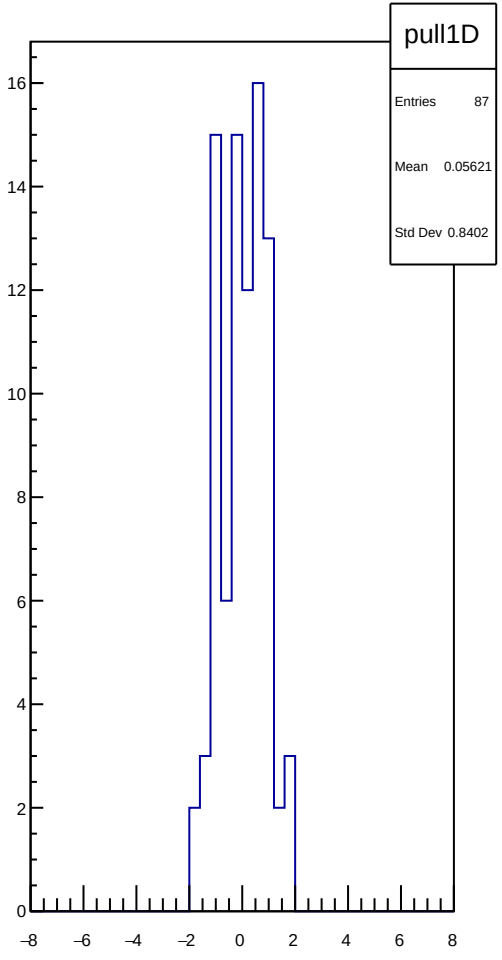

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.81 / 86
p0 23.36 ± 4.185
150
100
50
0
−50
pull
Entries 87
Mean −71.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.02275
Std Dev 0.6845
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

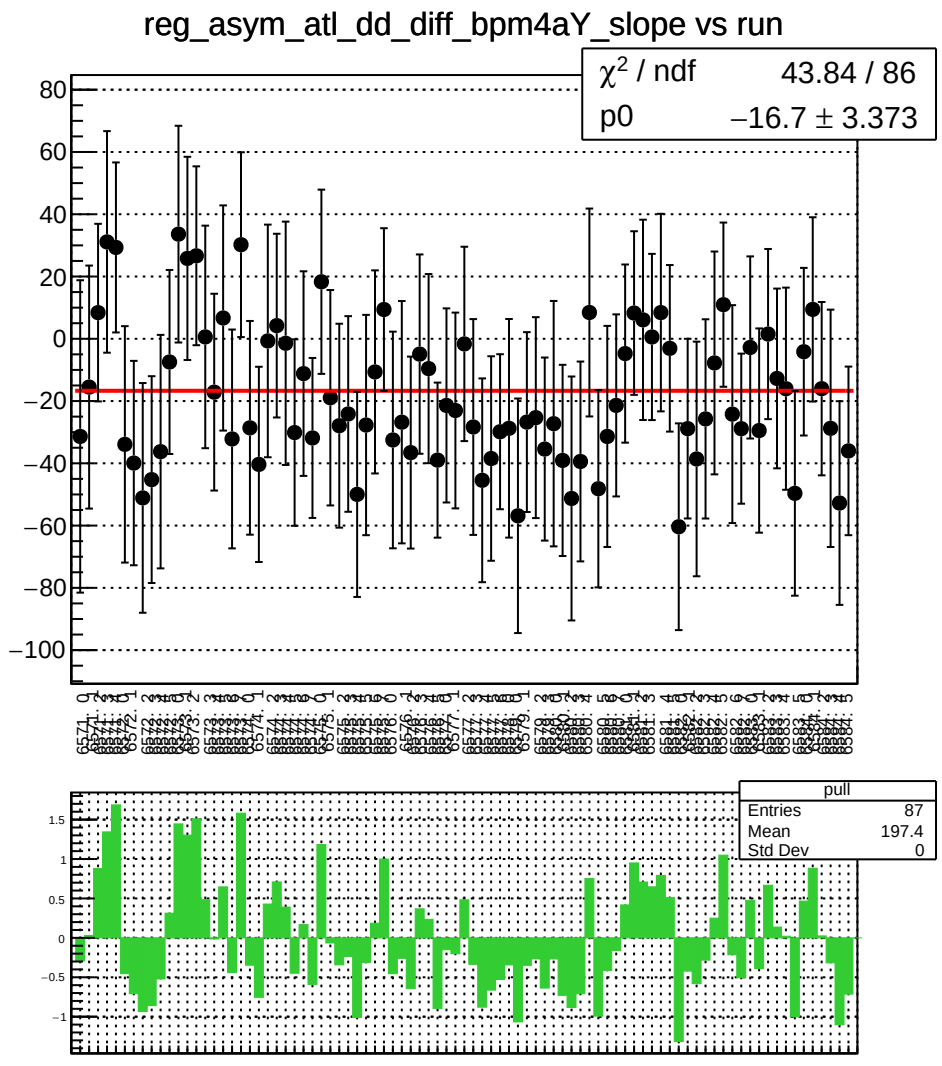

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 89.23 / 86
p0 266.3 ± 5.179
pull
Entries 87
Mean −11.4
Std Dev 0
pull1D
Entries 87
Mean 0.07038
Std Dev 1.01

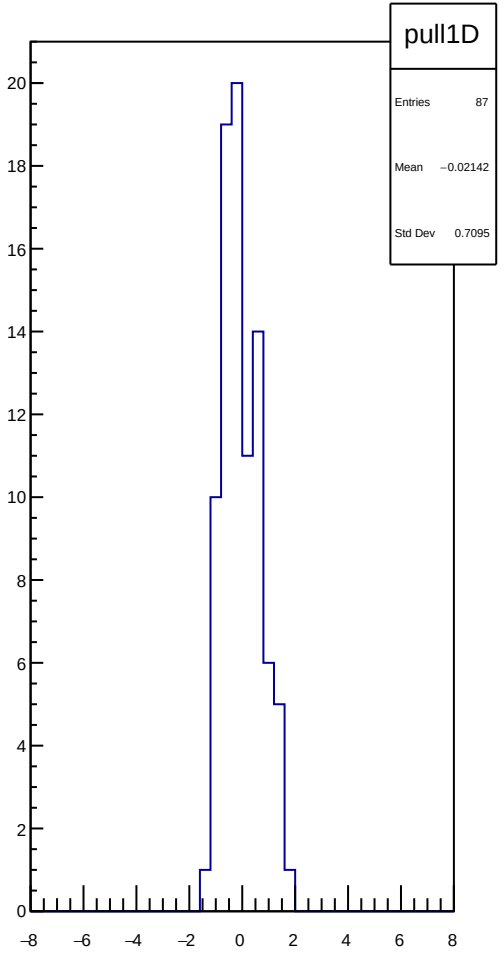

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.58 / 86
p0 67.54 ± 5.032
pull
Entries 87
Mean −112.6
Std Dev 0
pull1D
Entries 87
Mean −0.026
Std Dev 0.6991

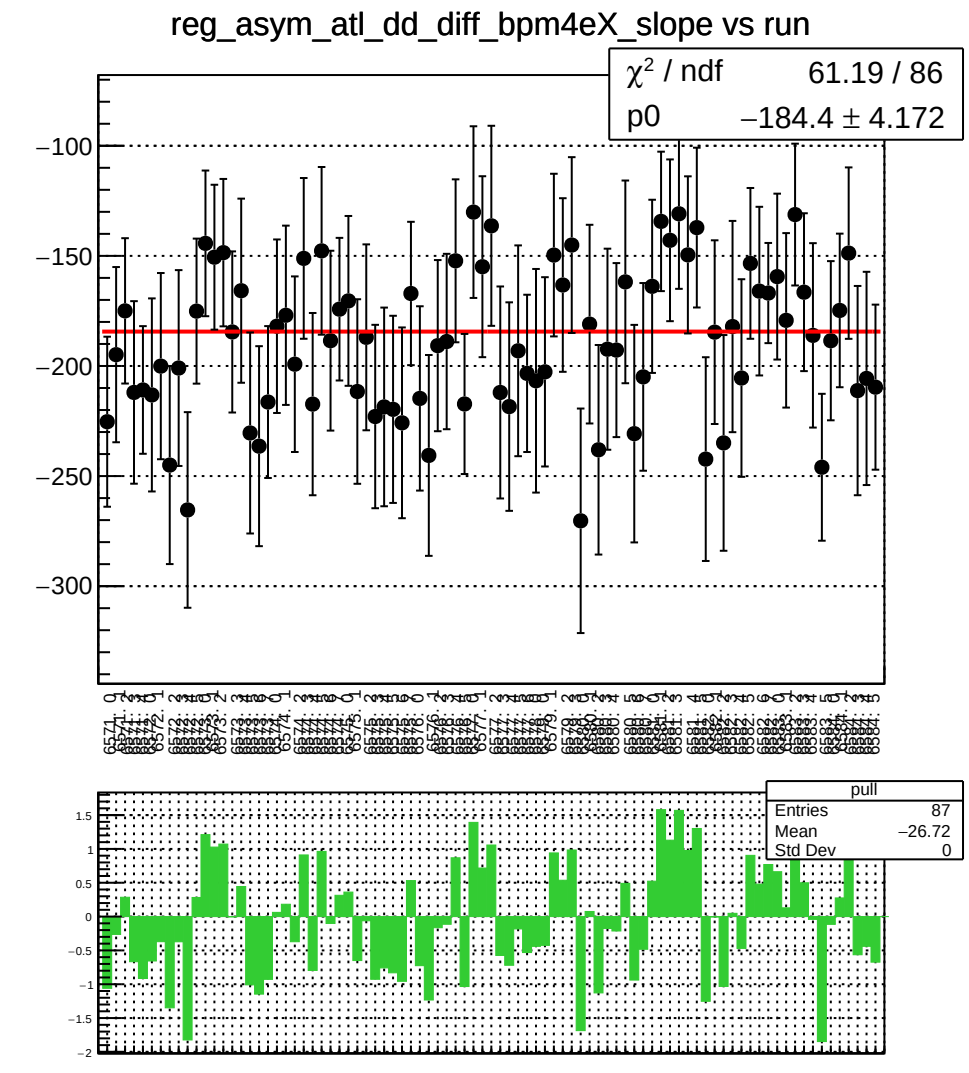

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 175.8 / 86
p0 −182.6 ± 0.2312
−175
−180
−185
−190
−195
pull
Entries 87
Mean 1524
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 87
Mean −0.006535
Std Dev 1.422
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

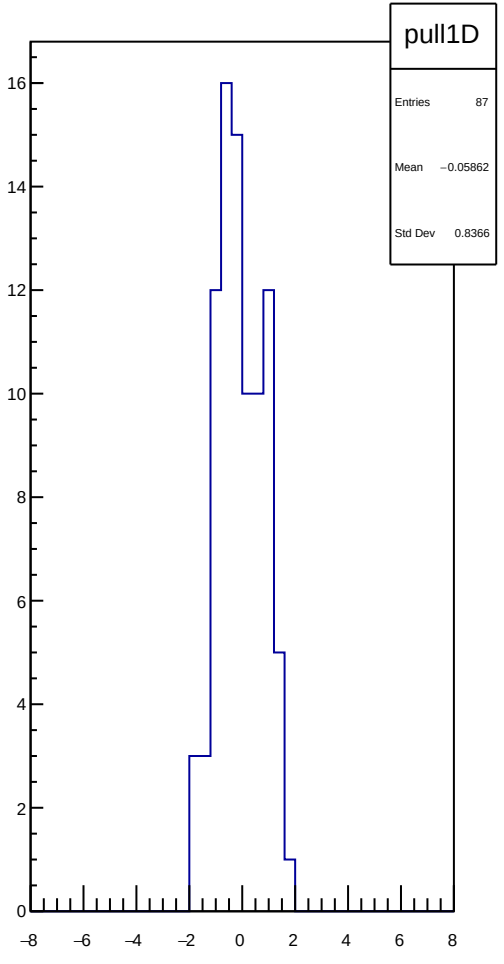

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 61.69 / 86
p0 223.1 ± 4.058
350
300
250
200
150
pull
Entries 87
Mean −32.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

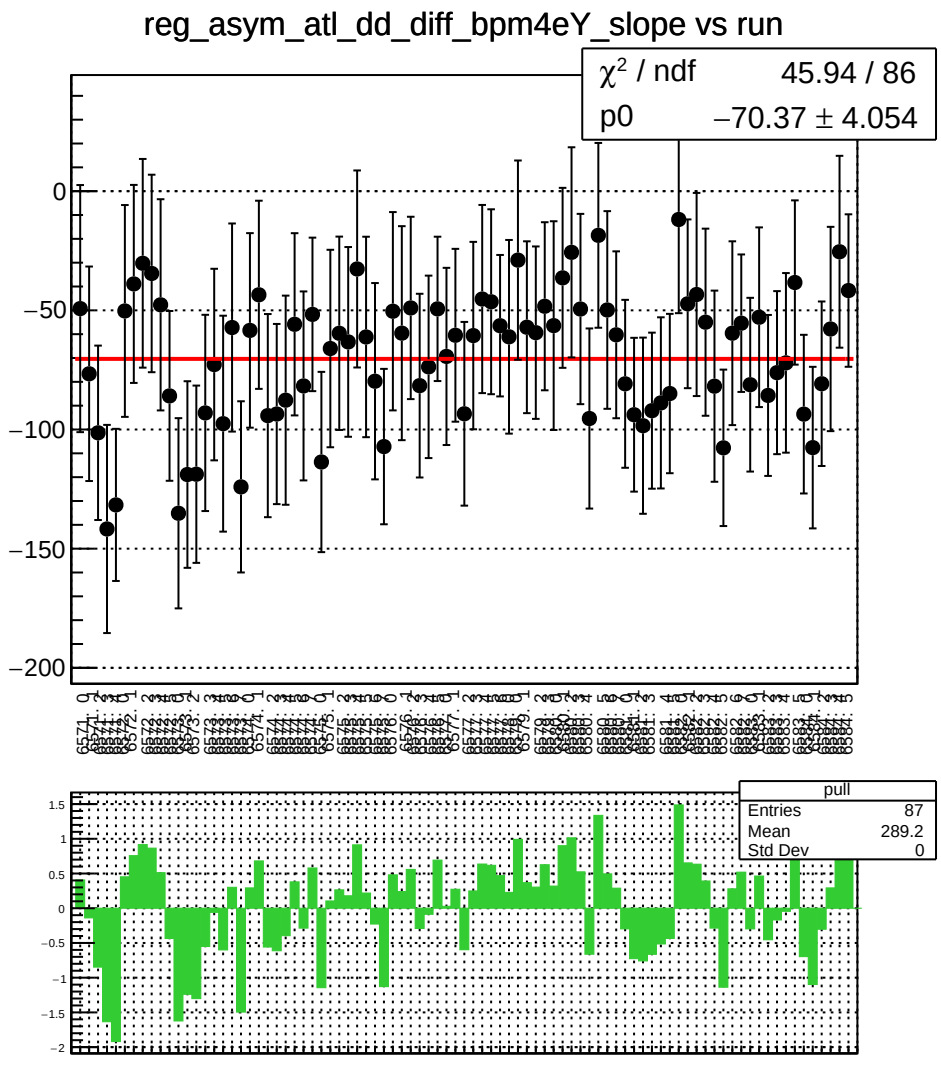

pull1D
Entries 87
Mean 0.05621
Std Dev 0.8402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

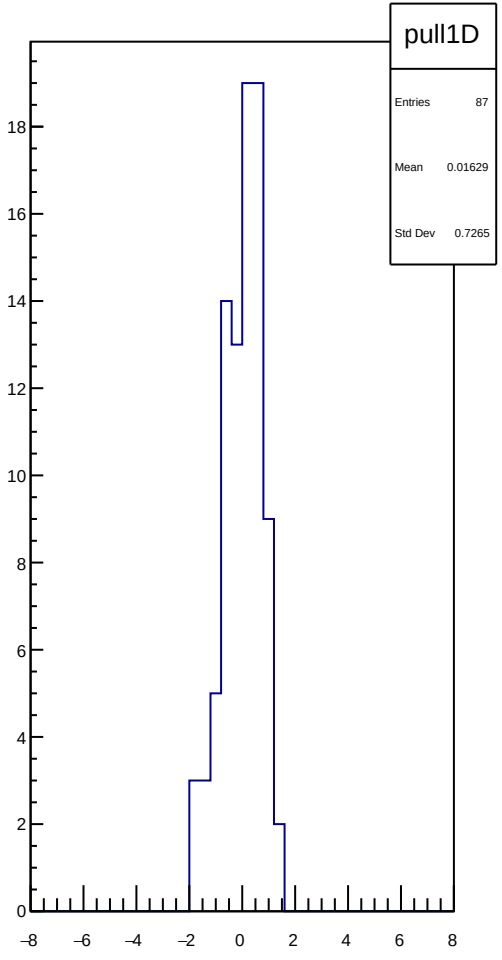

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.84 / 86
p0 −16.7 ± 3.373
pull
Entries 87
Mean 197.4
Std Dev 0

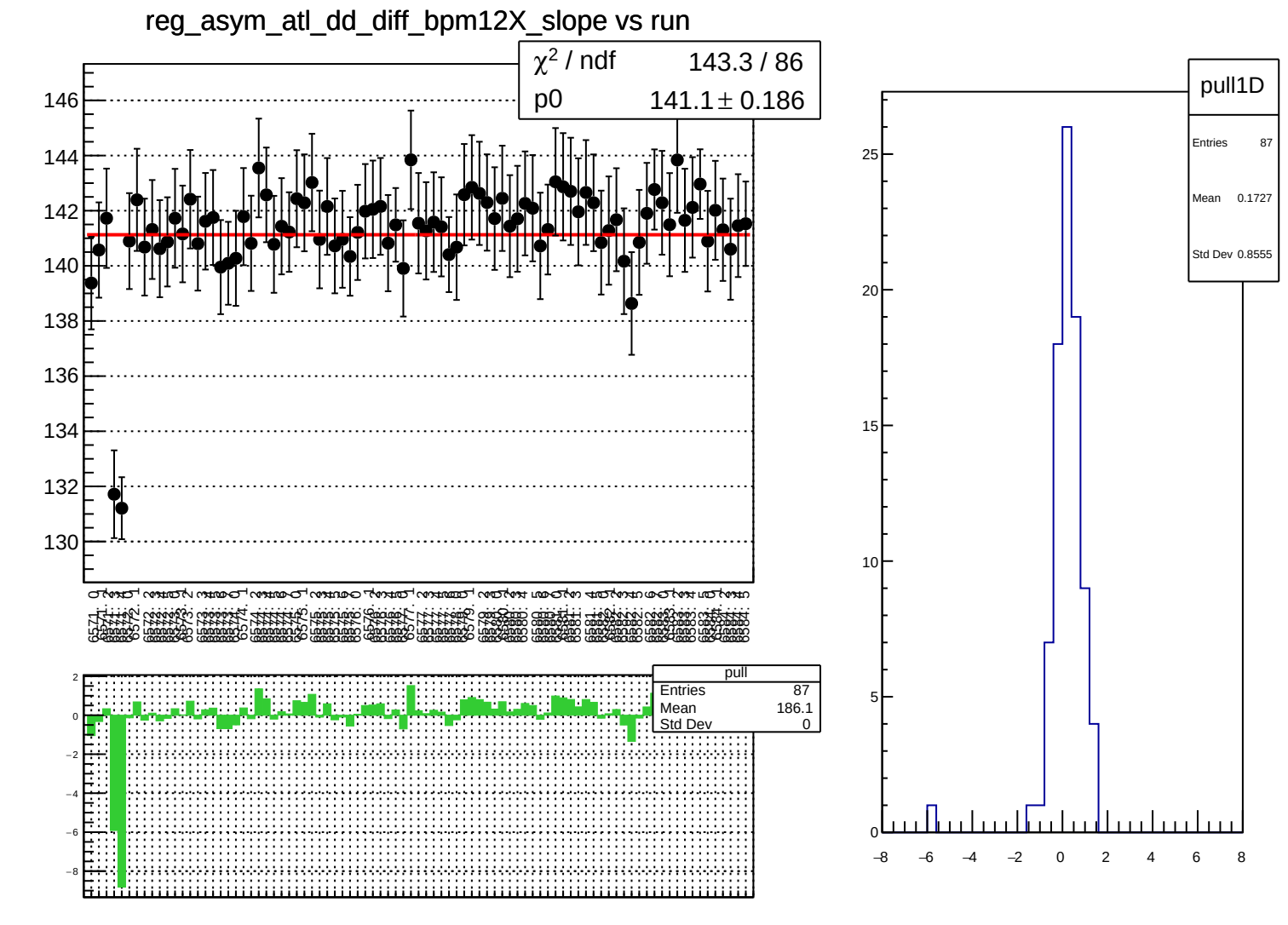

pull1D
Entries 87
Mean −0.02142
Std Dev 0.7095

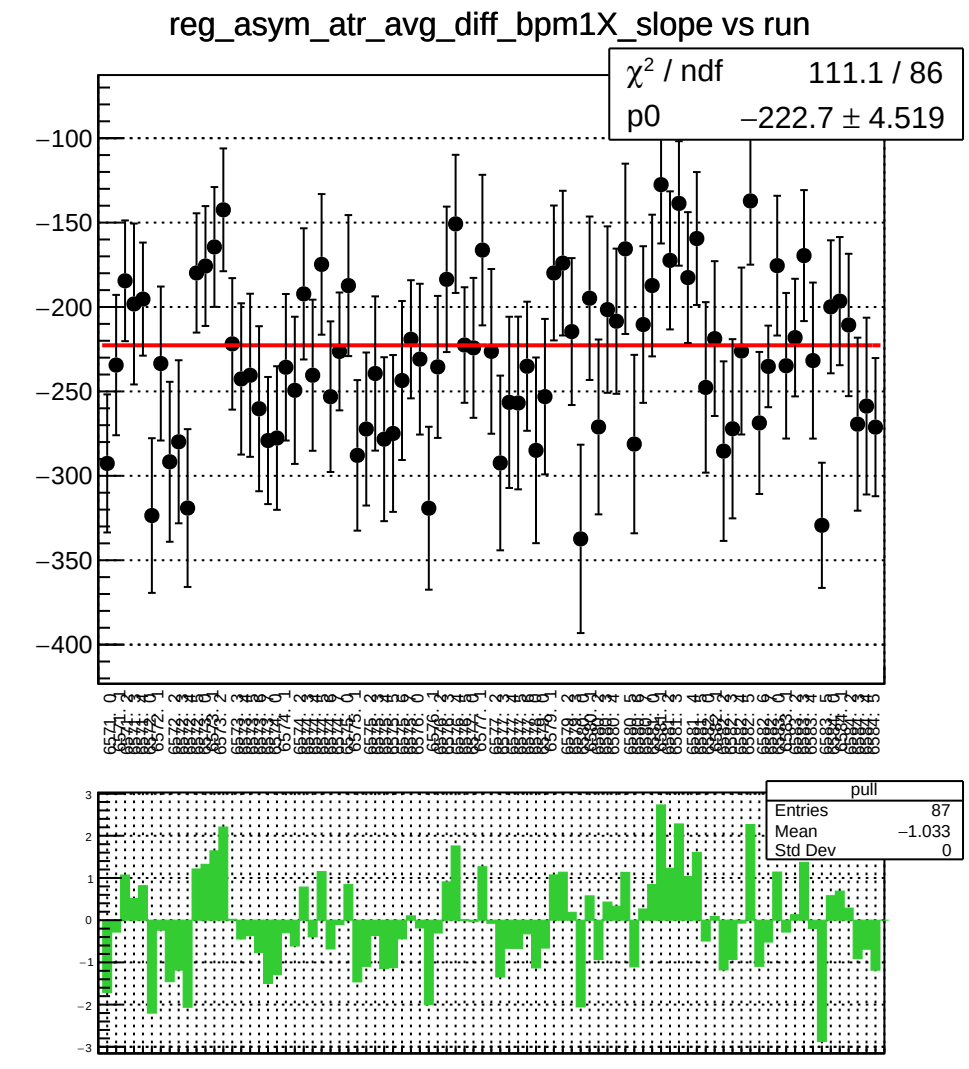

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.19 / 86
p0 −184.4 ± 4.172
−100
−150
−200
−250
−300
pull
Entries 87
Mean −26.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

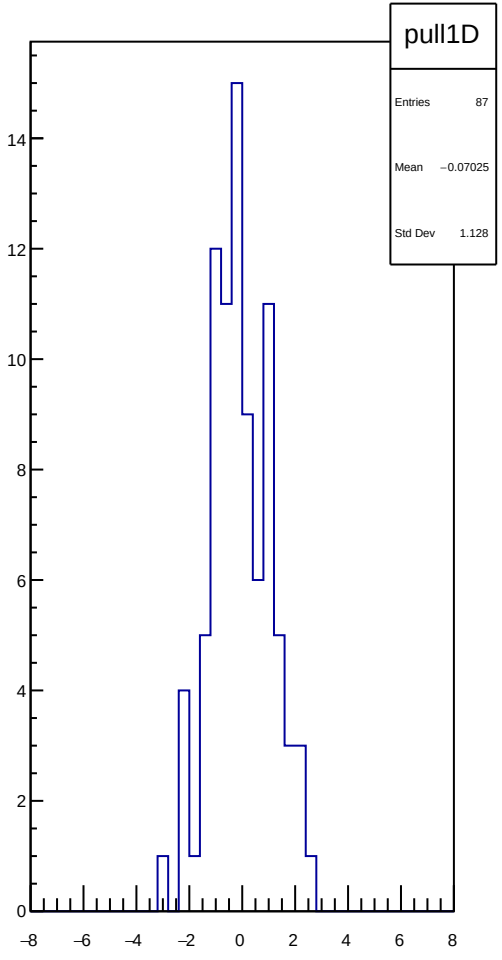

pull1D
Entries 87
Mean −0.05862
Std Dev 0.8366
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

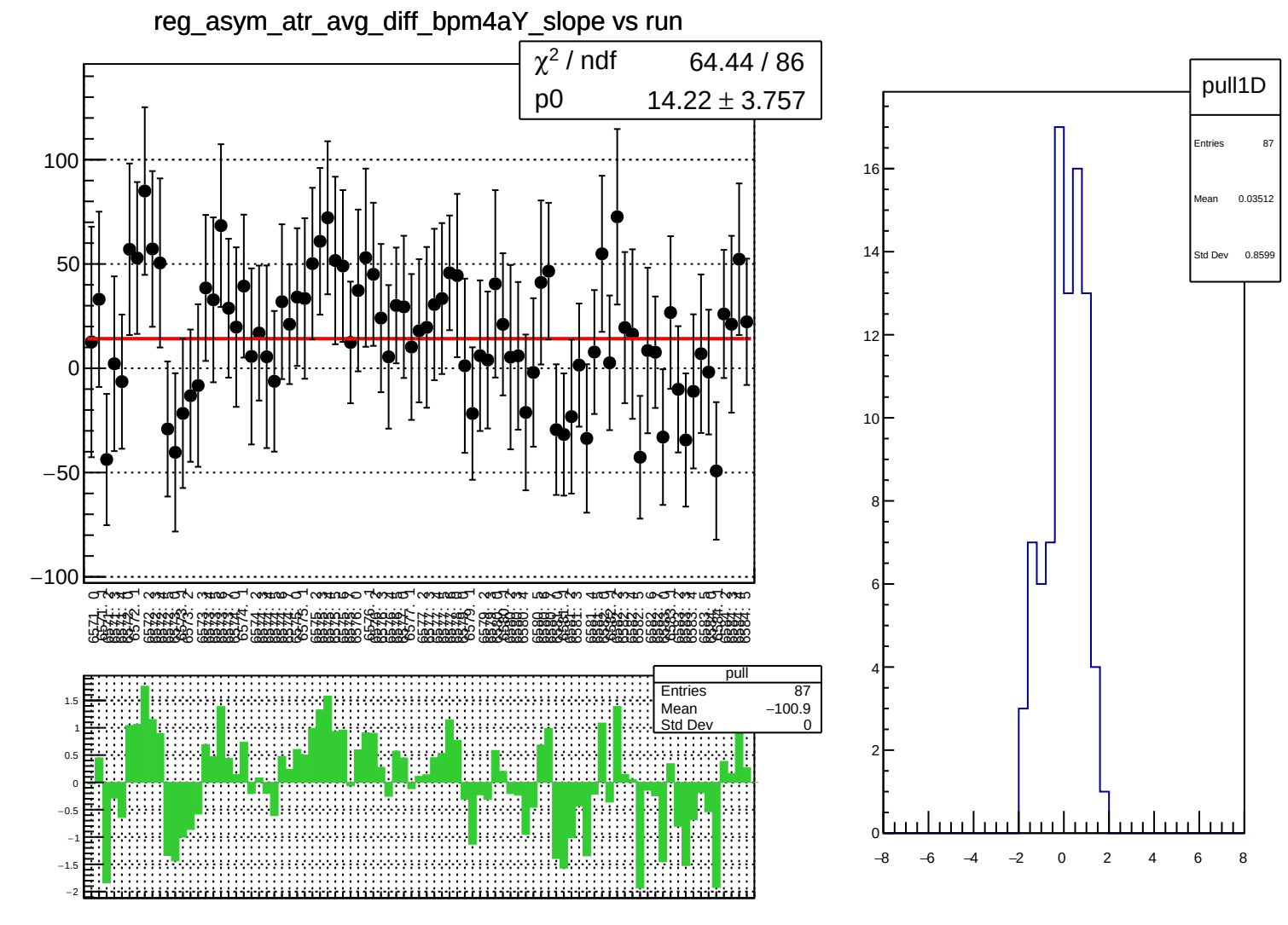

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.94 / 86
p0 −70.37 ± 4.054
pull
Entries 87
Mean 289.2
Std Dev 0

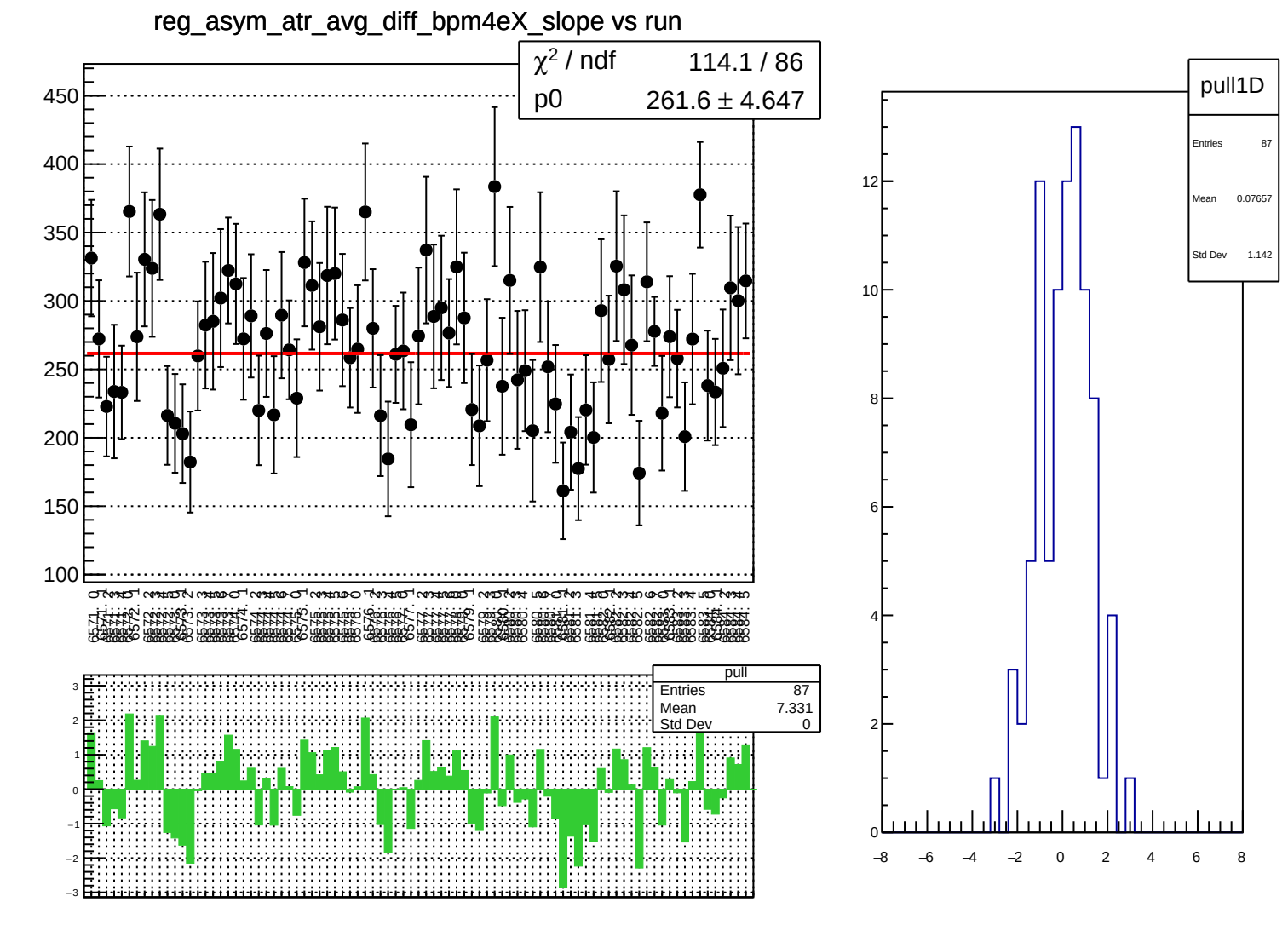

pull1D
Entries 87
Mean 0.01629
Std Dev 0.7265

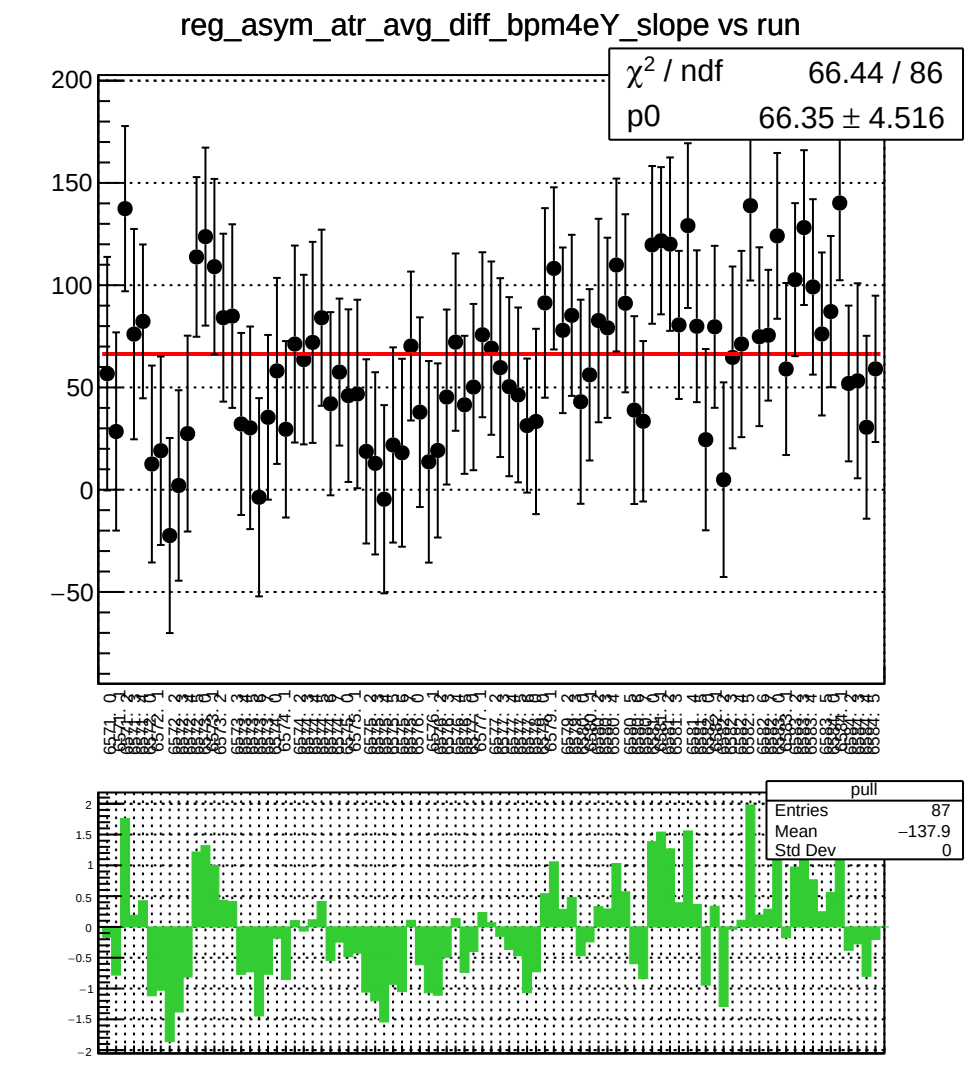

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 143.3 / 86
p0 141.1 ± 0.186
pull
Entries 87
Mean 186.1
Std Dev 0
pull1D
Entries 87
Mean 0.1727
Std Dev 0.8555

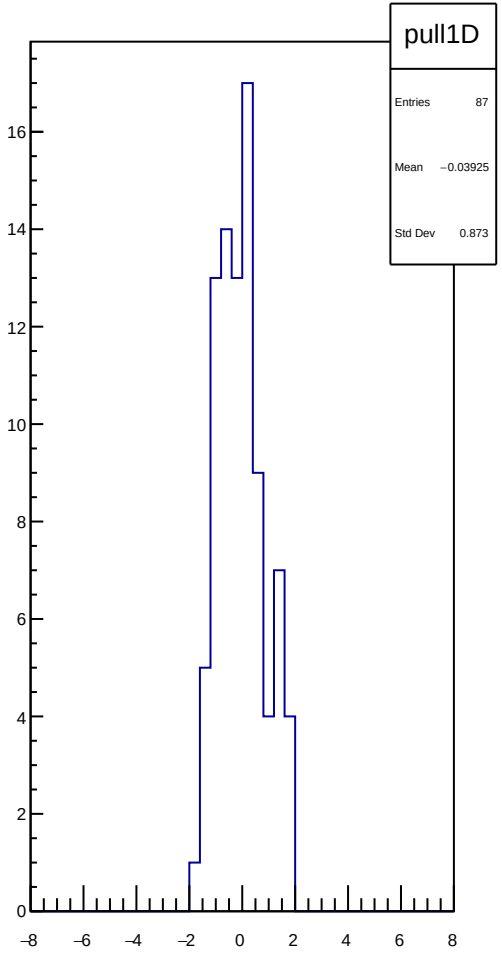

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 111.1 / 86
p0 −222.7 ± 4.519
pull
Entries 87
Mean −1.033
Std Dev 0

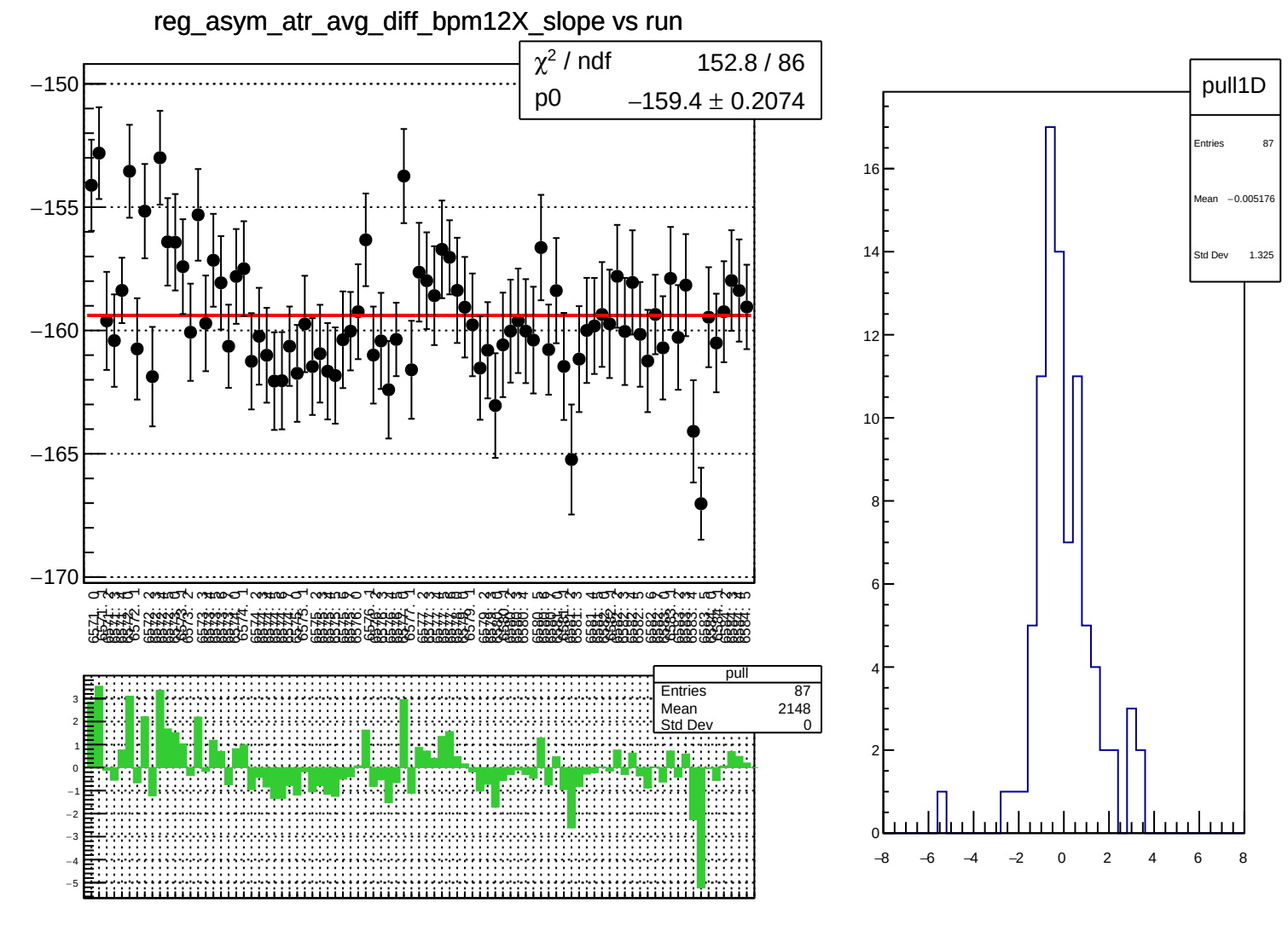

pull1D
Entries 87
Mean −0.07025
Std Dev 1.128

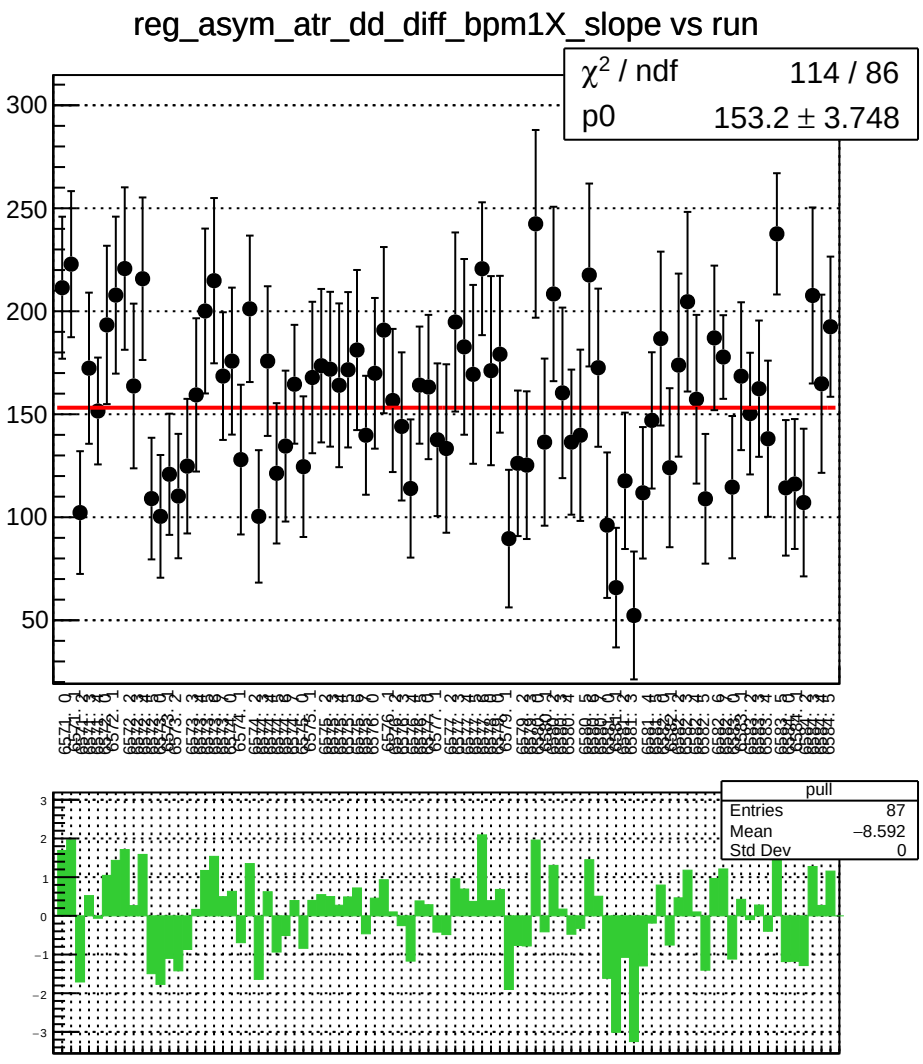

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.44 / 86
p0 14.22 ± 3.757
pull
Entries 87
Mean −100.9
Std Dev 0
pull1D
Entries 87
Mean 0.03512
Std Dev 0.8599

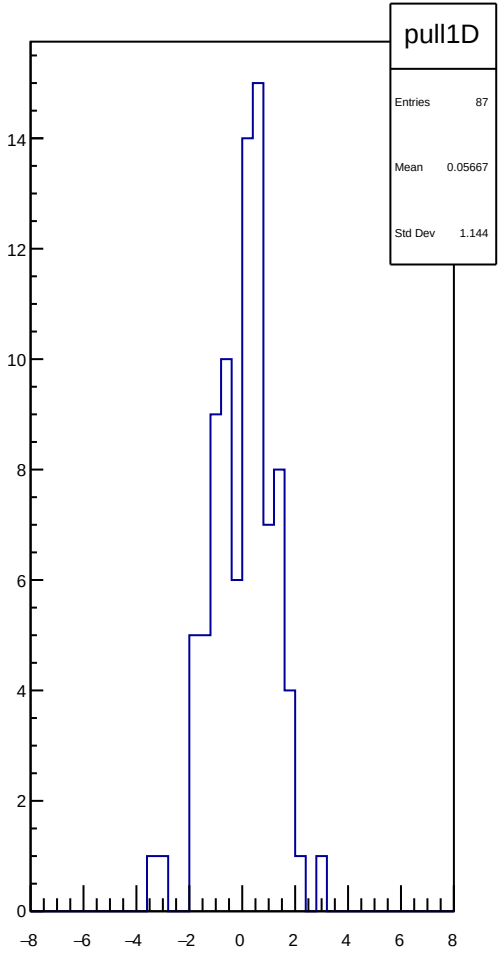

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 114.1 / 86
p0 261.6 ± 4.647
pull
Entries 87
Mean 7.331
Std Dev 0
pull1D
Entries 87
Mean 0.07657
Std Dev 1.142

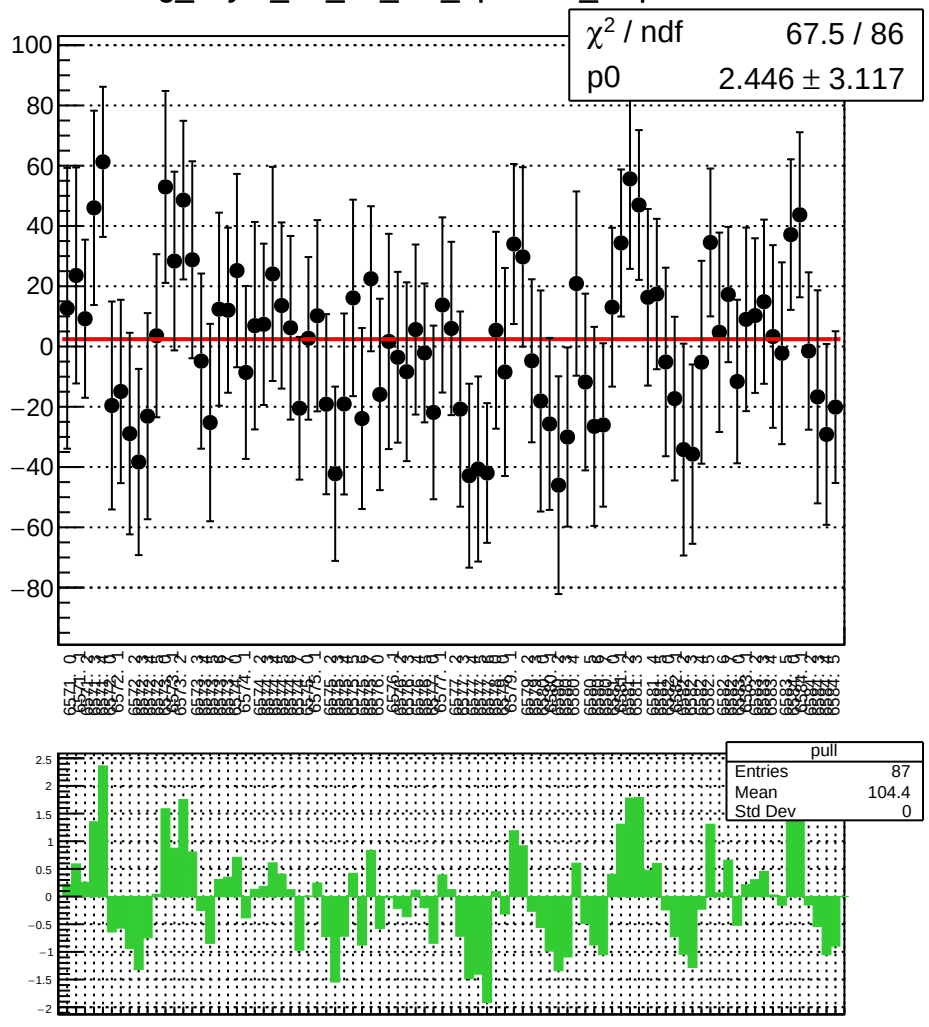

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.44 / 86
p0 66.35 ± 4.516
pull
Entries 87
Mean −137.9
Std Dev 0

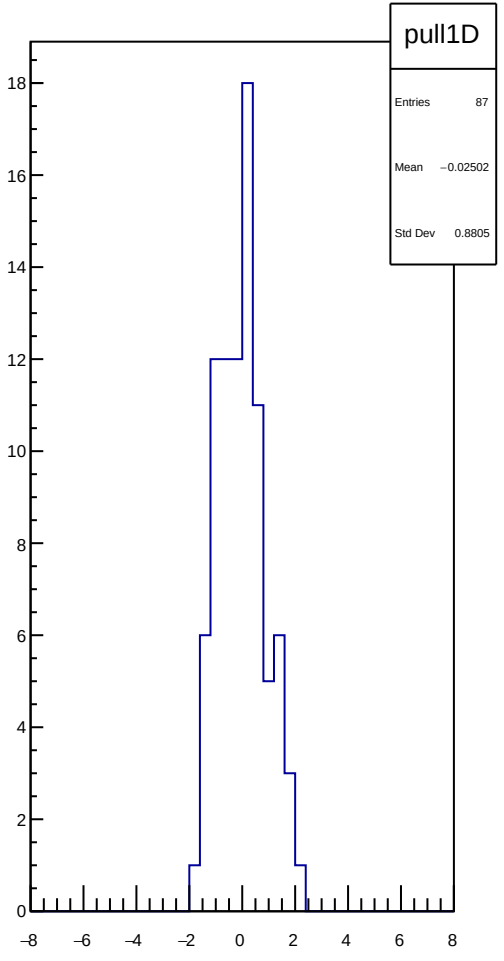

pull1D
Entries 87
Mean −0.03925
Std Dev 0.873

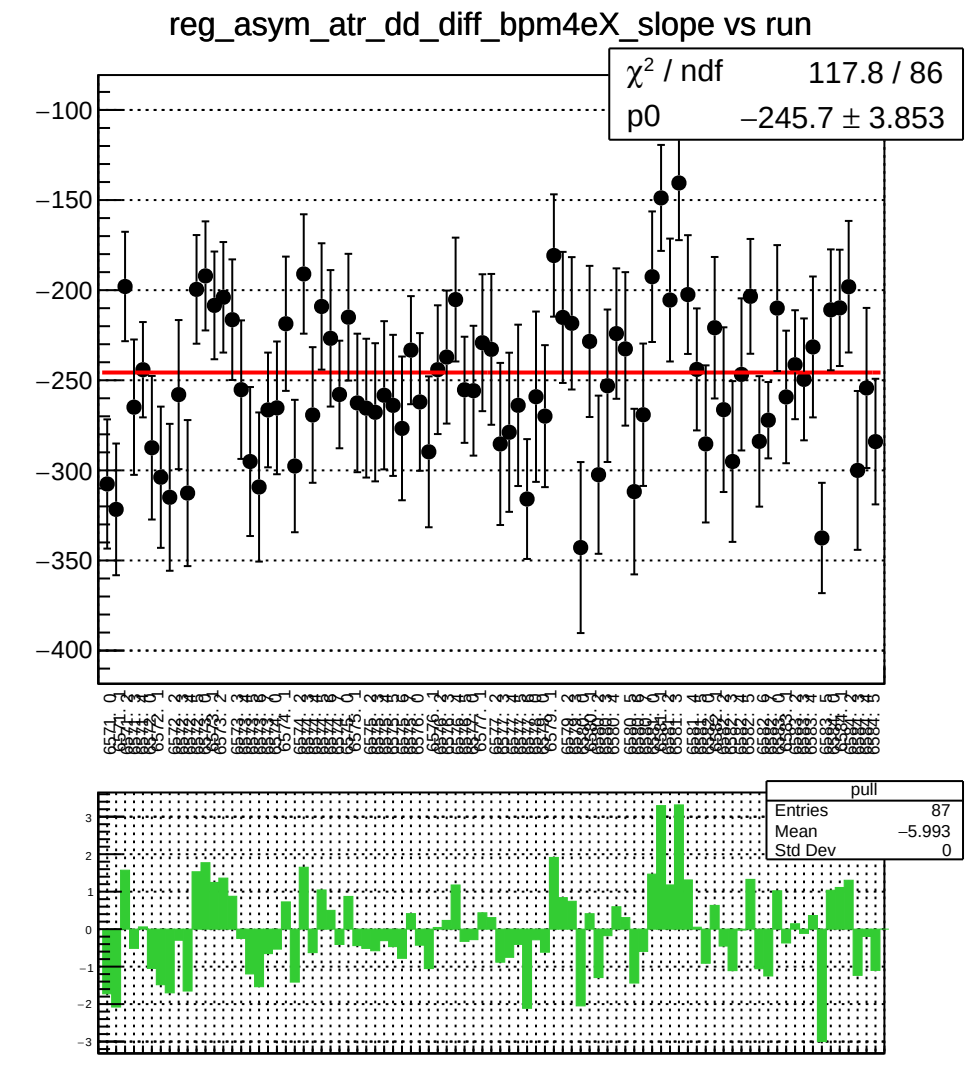

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 152.8 / 86
p0 −159.4 ± 0.2074
−150
−155
−160
−165
−170
pull
Entries 87
Mean 2148
Std Dev 0
pull1D
Entries 87
Mean −0.005176
Std Dev 1.325

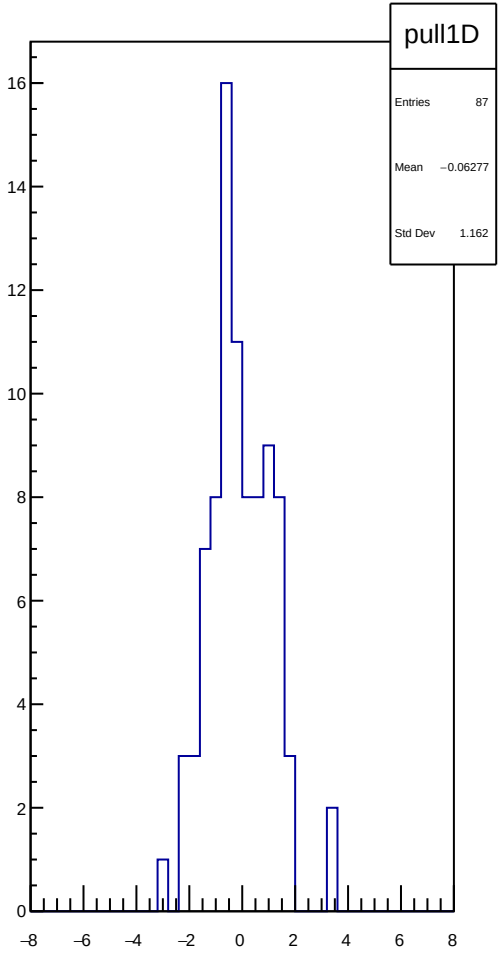

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 114 / 86
p0 153.2 ± 3.748
pull
Entries 87
Mean −8.592
Std Dev 0

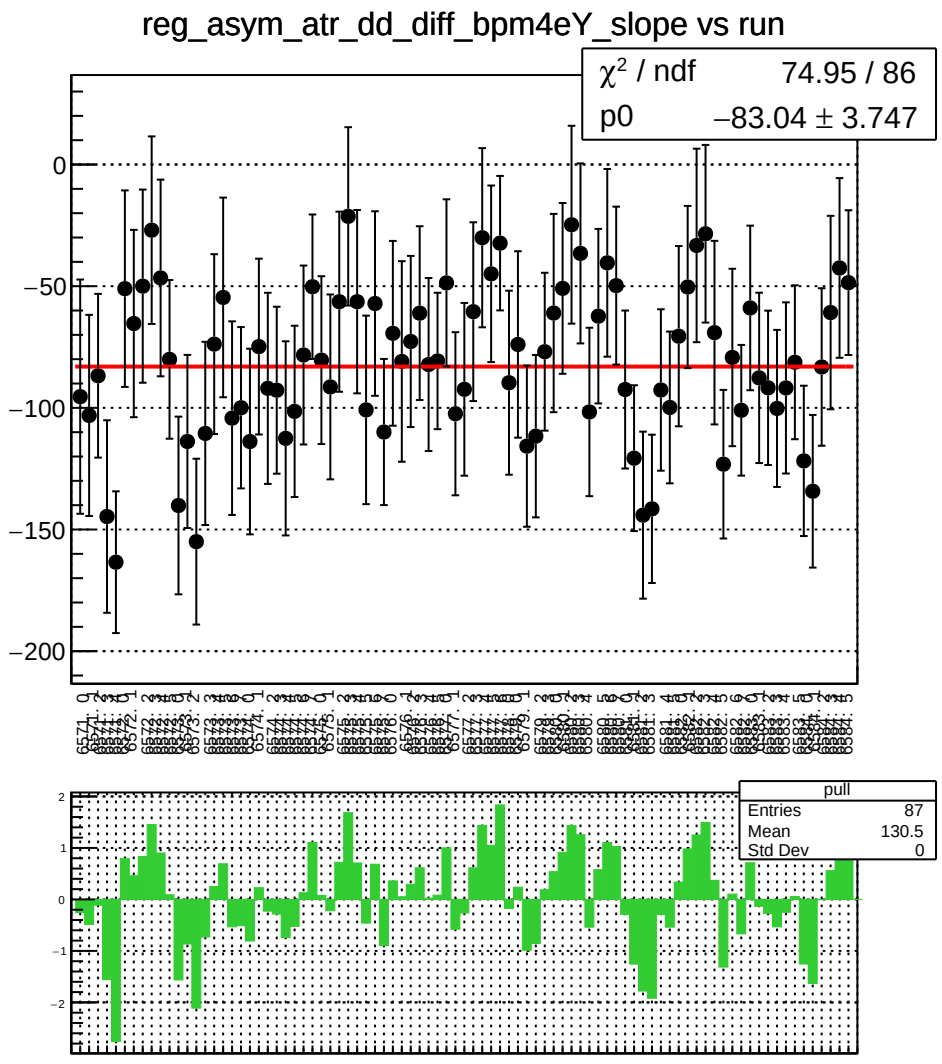

pull1D
Entries 87
Mean 0.05667
Std Dev 1.144

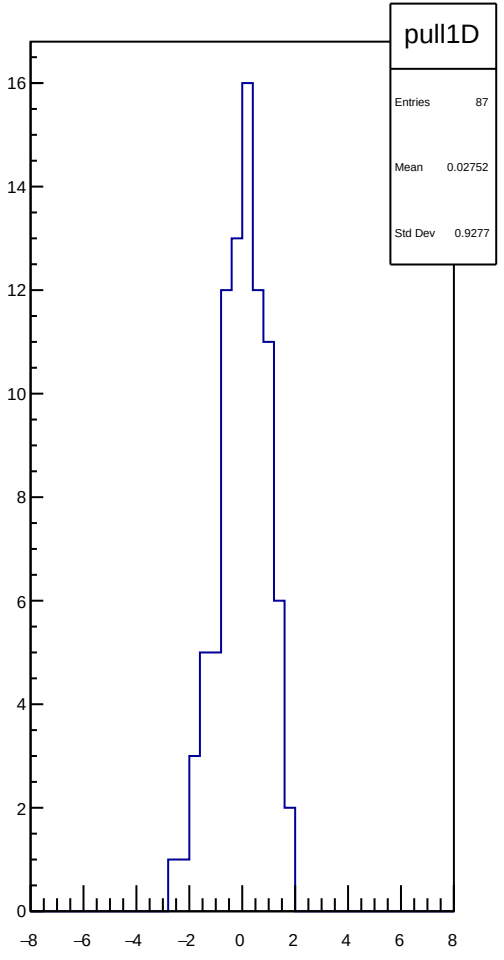

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.5 / 86
p0 2.446 ± 3.117
pull
Entries 87
Mean 104.4
Std Dev 0

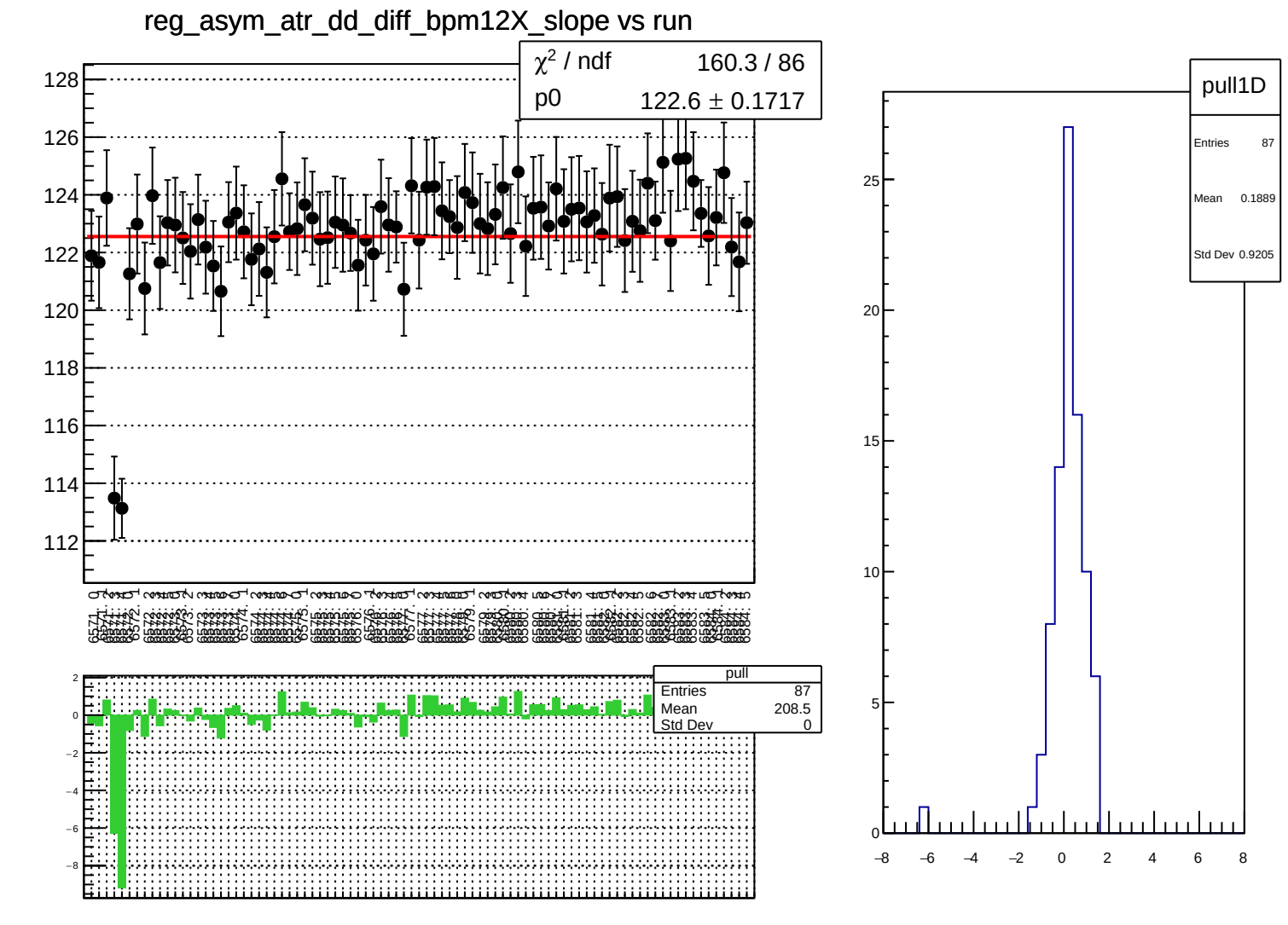

pull1D
Entries 87
Mean −0.02502
Std Dev 0.8805

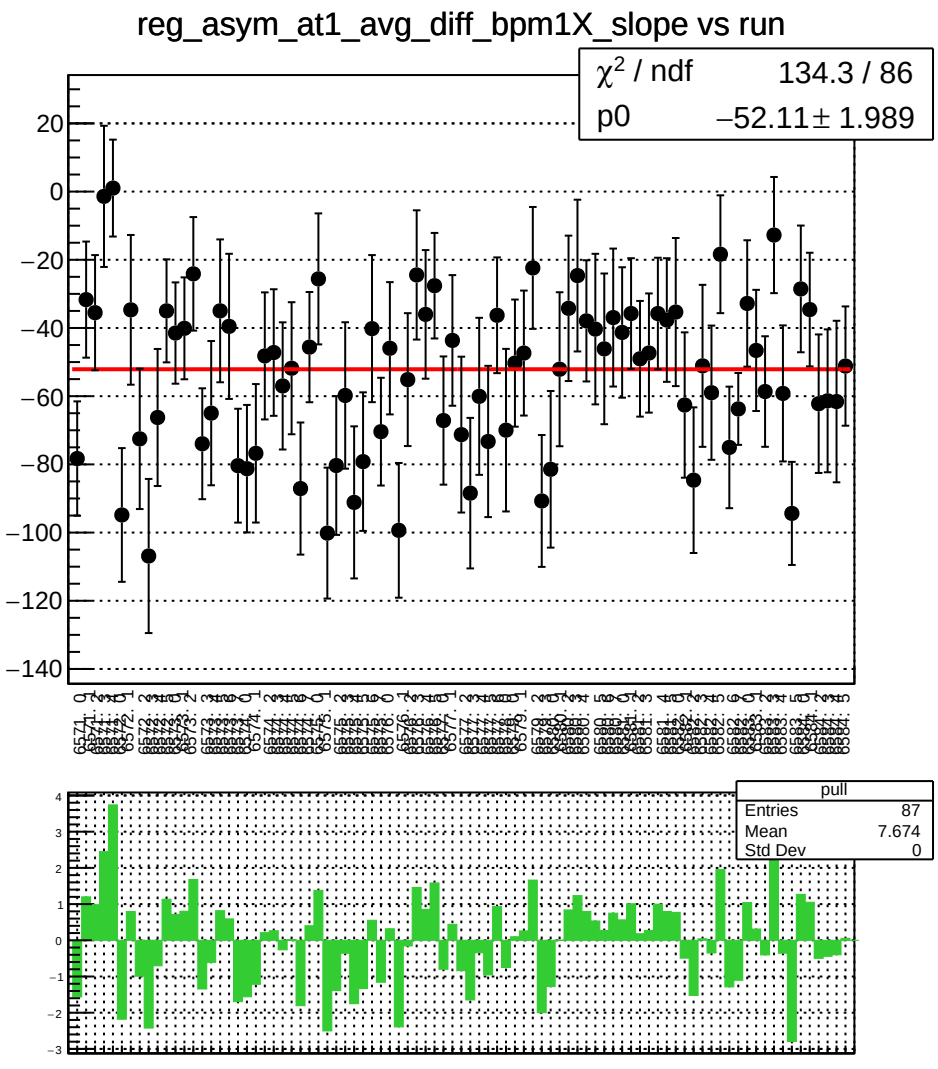

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.8 / 86
p0 −245.7 ± 3.853
pull
Entries 87
Mean −5.993
Std Dev 0

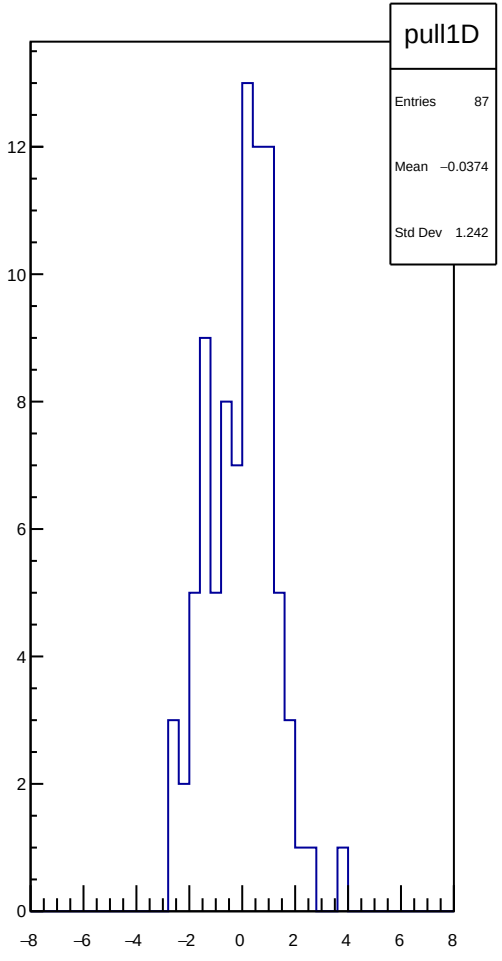

pull1D
Entries 87
Mean −0.06277
Std Dev 1.162

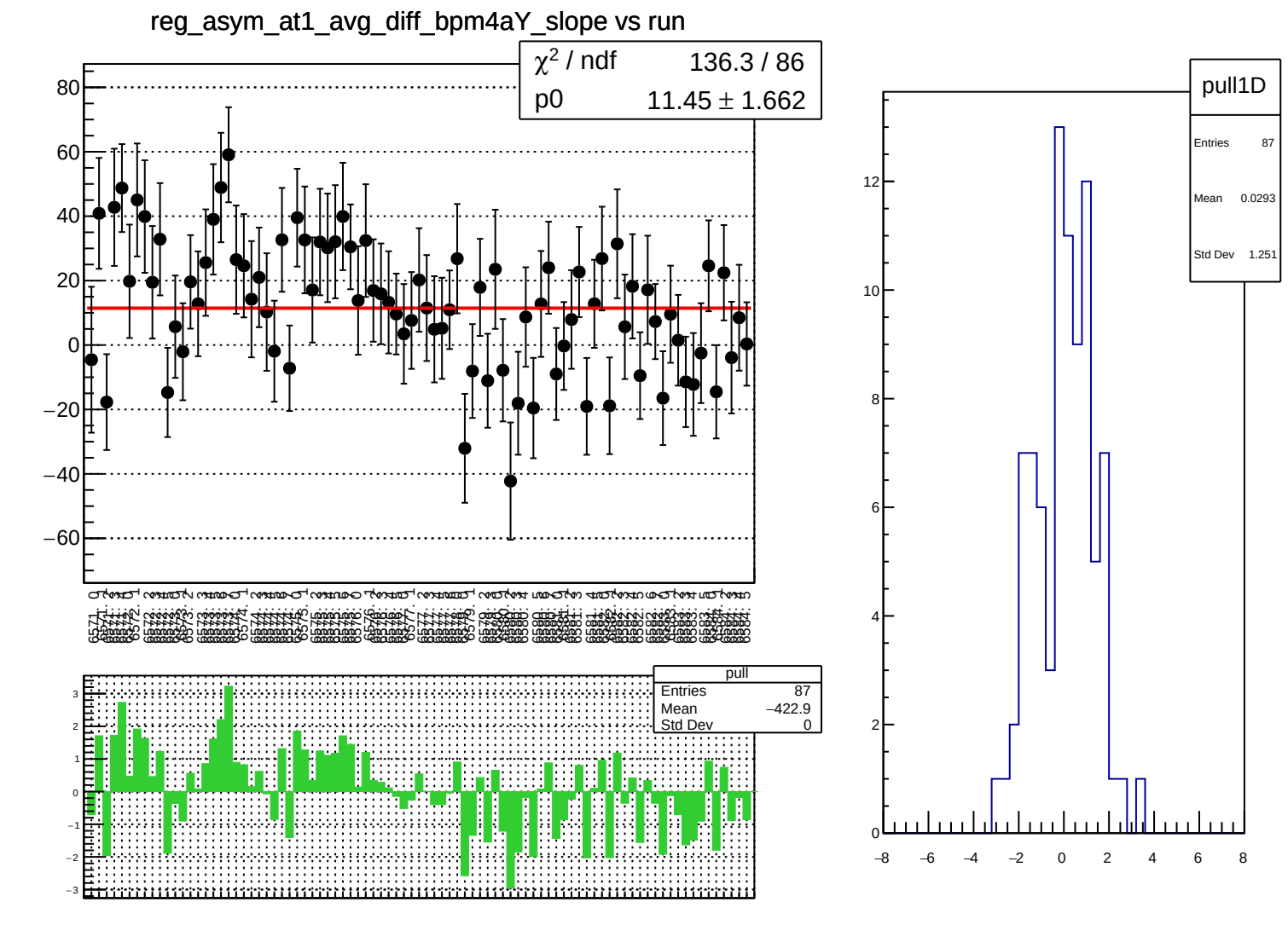

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.95 / 86
p0 −83.04 ± 3.747
pull
Entries 87
Mean 130.5
Std Dev 0

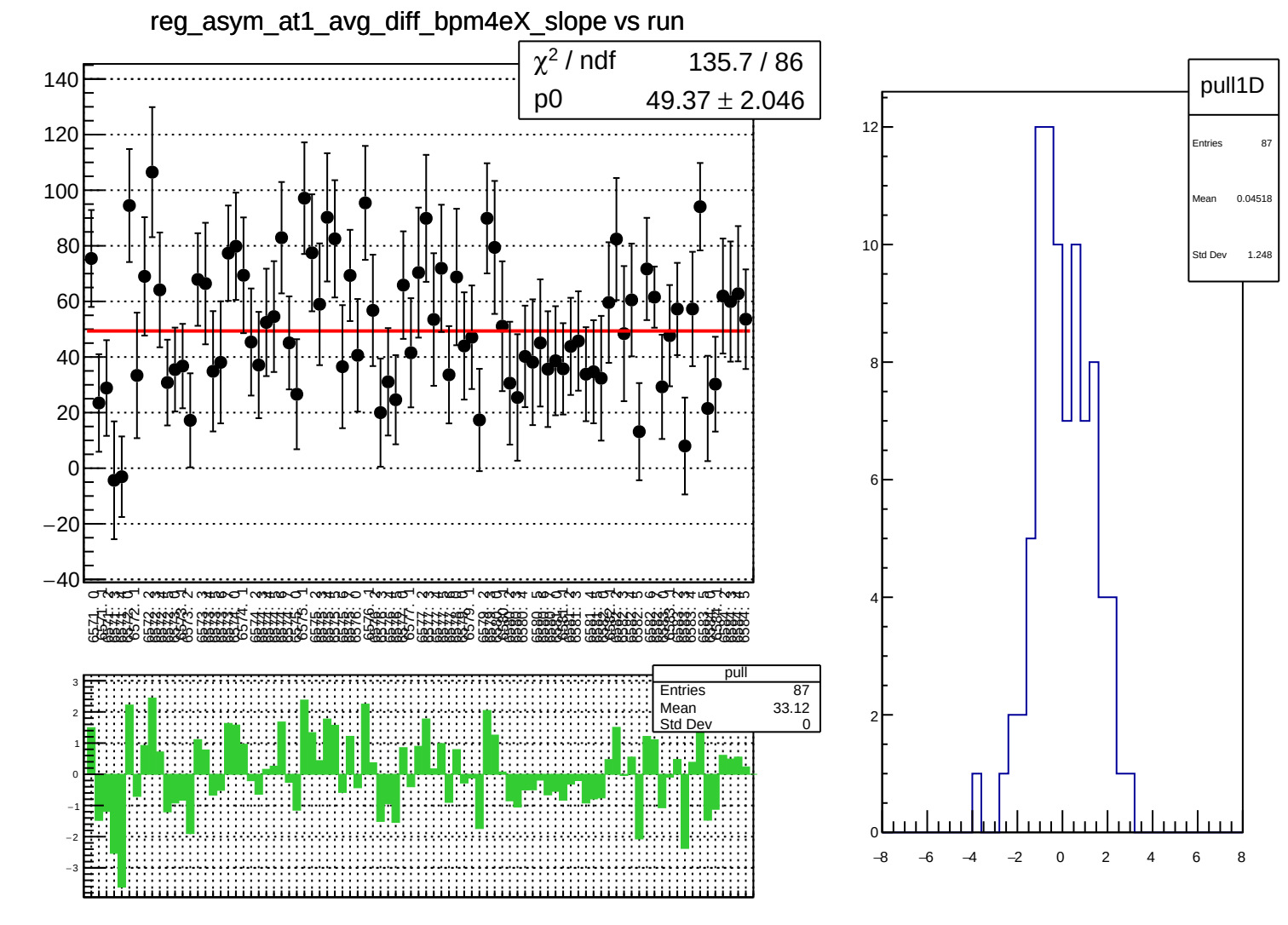

pull1D
Entries 87
Mean 0.02752
Std Dev 0.9277

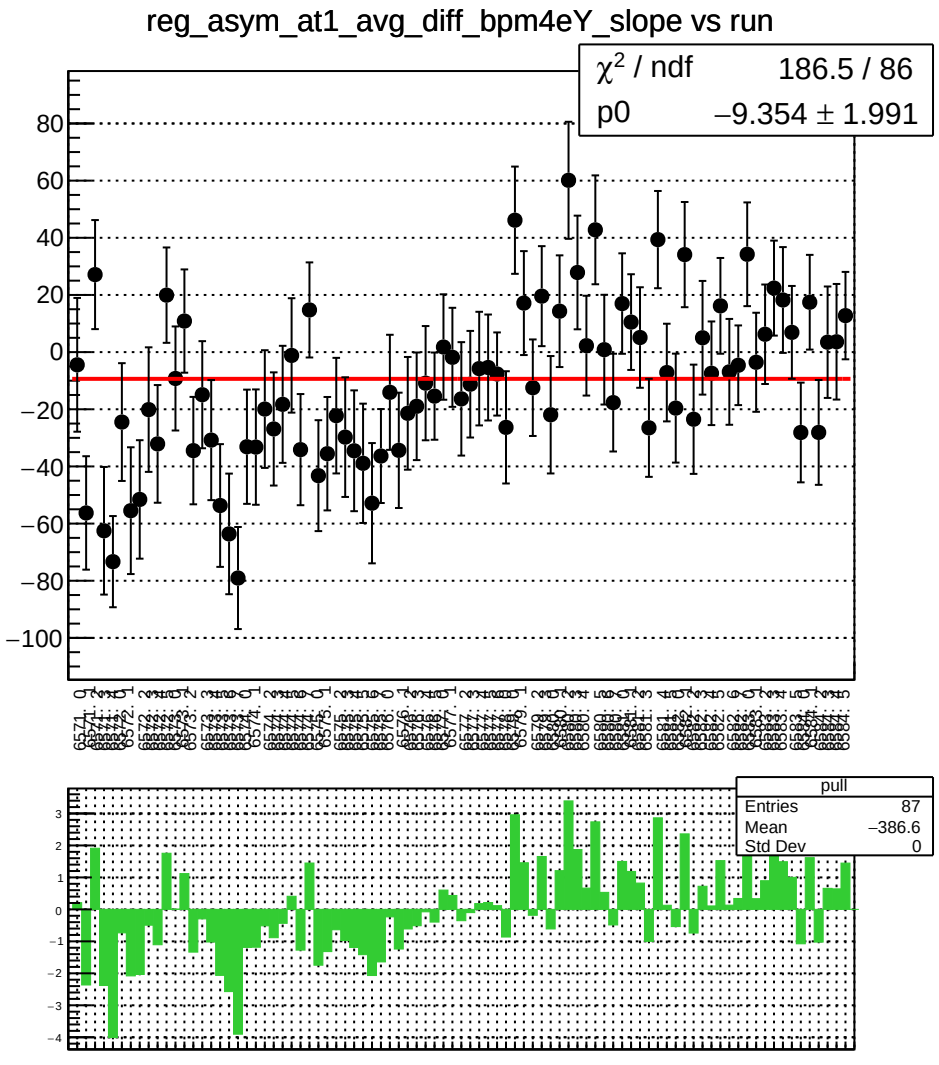

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 160.3 / 86
p0 122.6 ± 0.1717
pull
Entries 87
Mean 208.5
Std Dev 0
pull1D
Entries 87
Mean 0.1889
Std Dev 0.9205

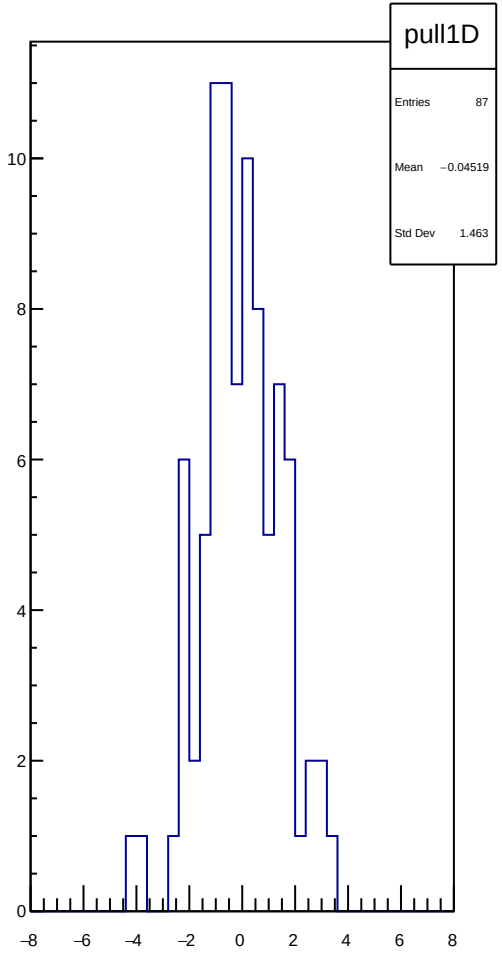

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 134.3 / 86
p0 −52.11± 1.989
pull
Entries 87
Mean 7.674
Std Dev 0

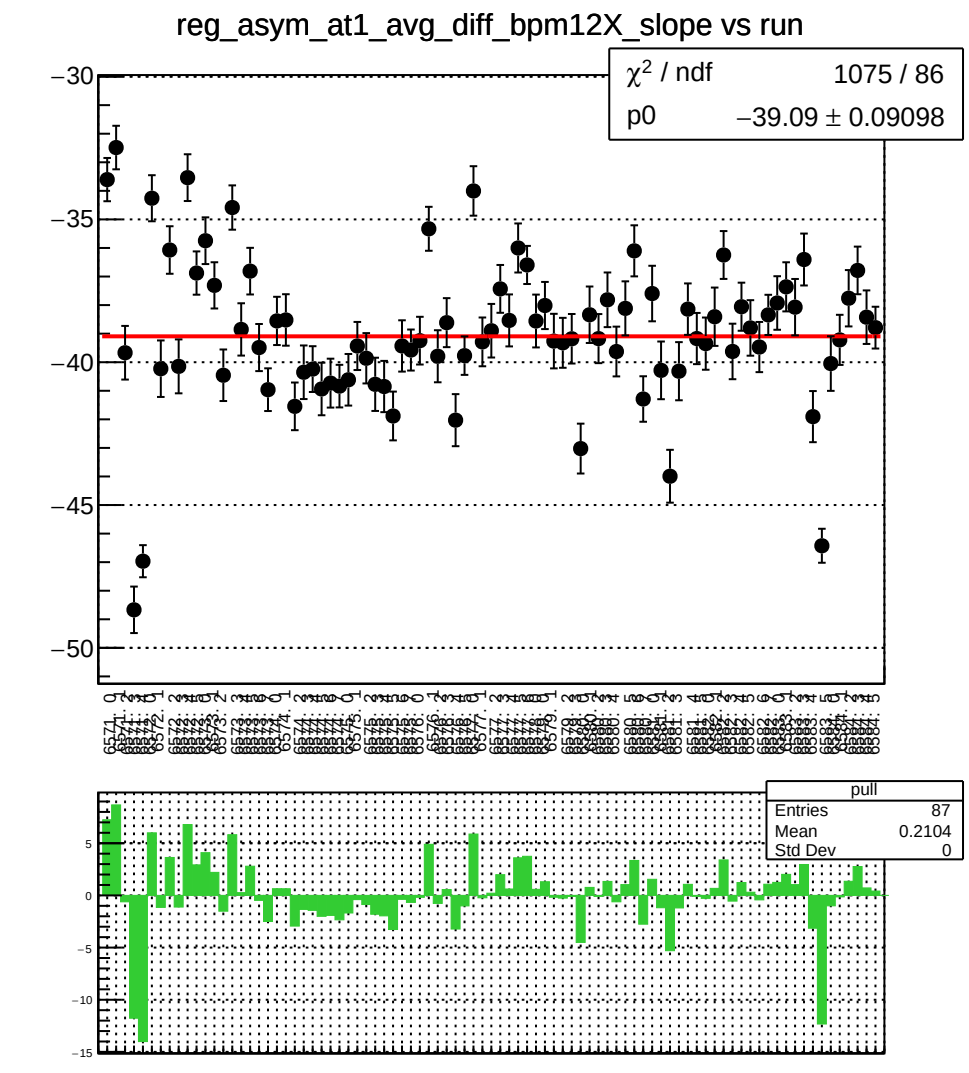

pull1D
Entries 87
Mean −0.0374
Std Dev 1.242

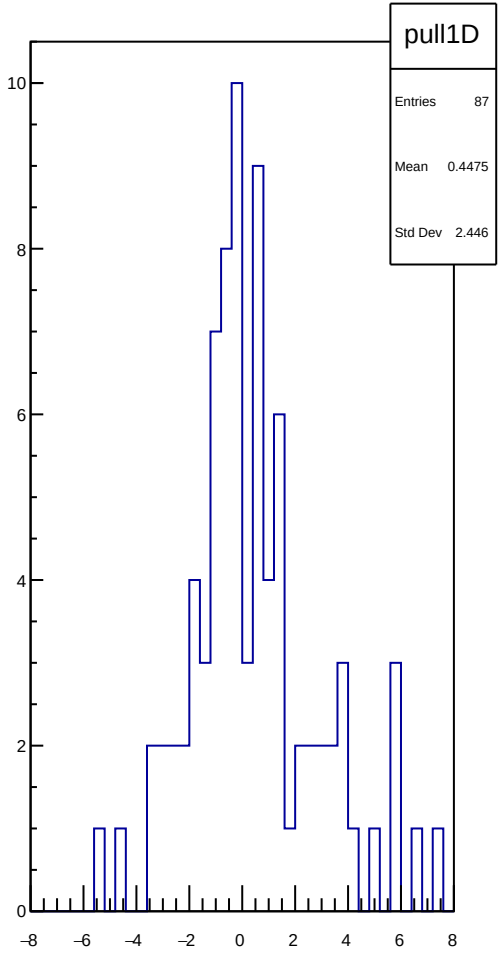

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 136.3 / 86
p0 11.45 ± 1.662
pull
Entries 87
Mean −422.9
Std Dev 0
pull1D
Entries 87
Mean 0.0293
Std Dev 1.251

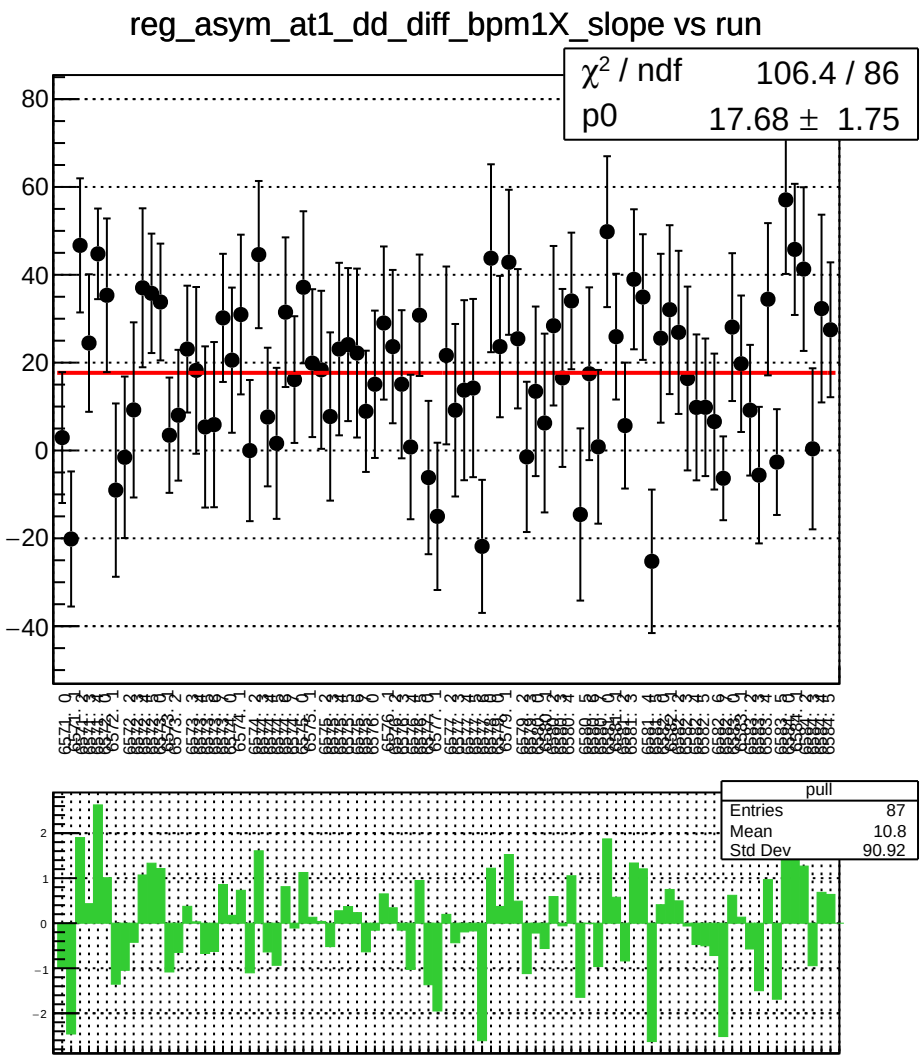

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 135.7 / 86
p0 49.37 ± 2.046
pull
Entries 87
Mean 33.12
Std Dev 0
pull1D
Entries 87
Mean 0.04518
Std Dev 1.248

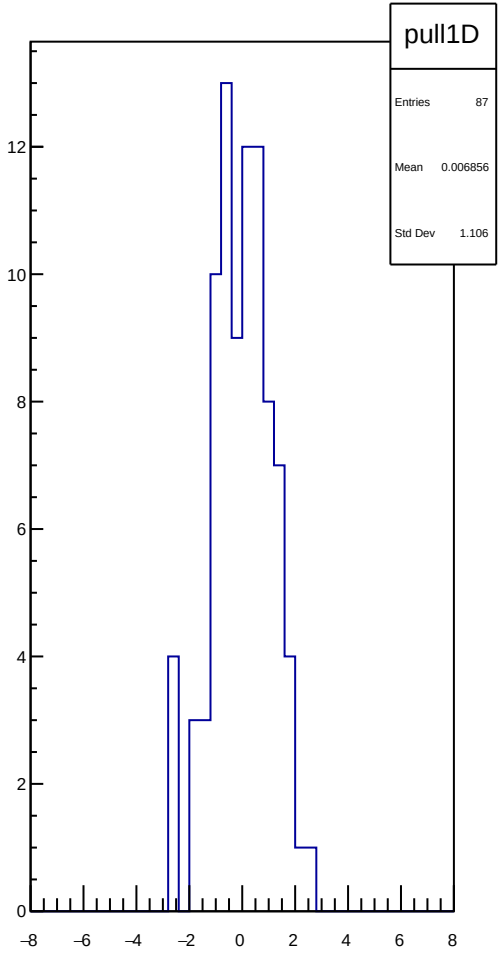

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 186.5 / 86
p0 −9.354 ± 1.991
pull
Entries 87
Mean −386.6
Std Dev 0

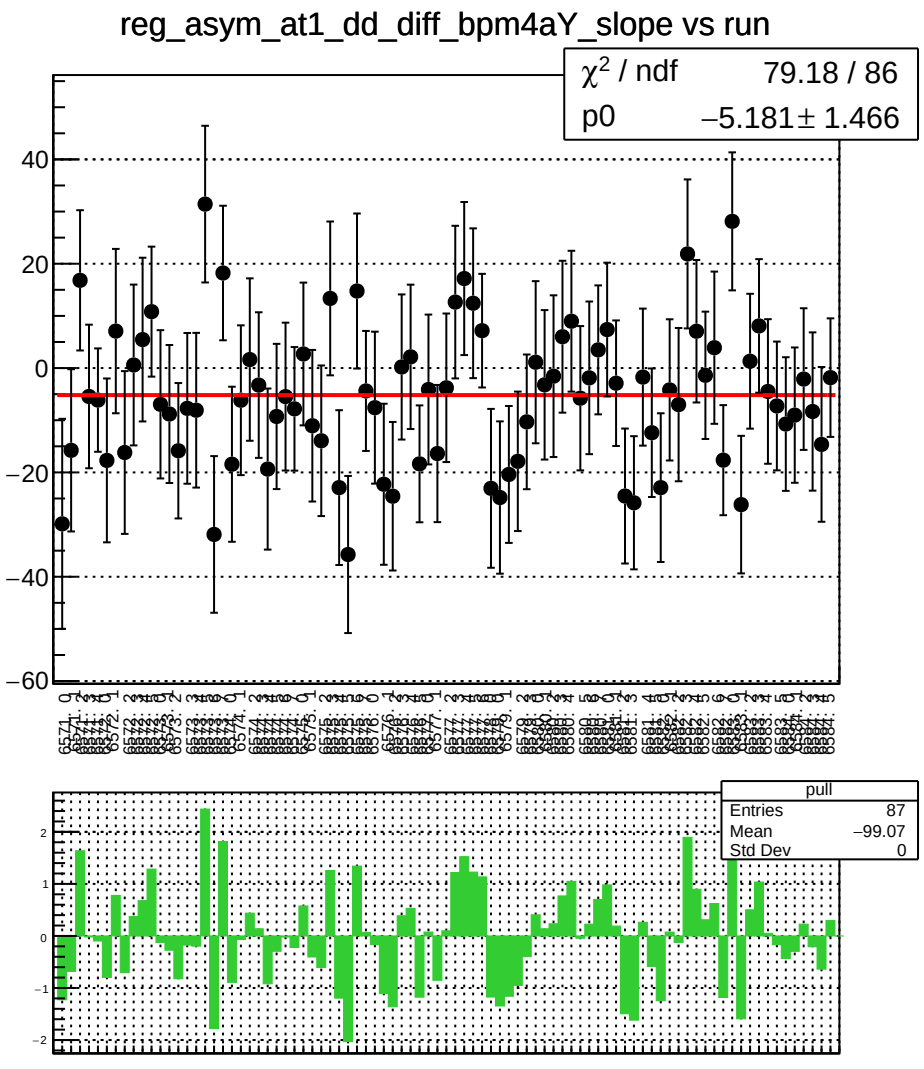

pull1D
Entries 87
Mean −0.04519
Std Dev 1.463

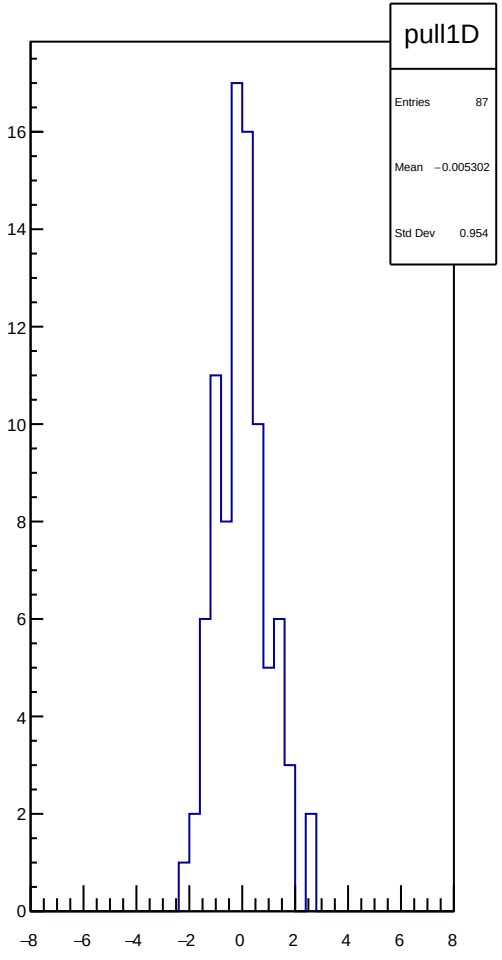

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1075 / 86
p0 −39.09 ± 0.09098
pull
Entries 87
Mean 0.2104
Std Dev 0

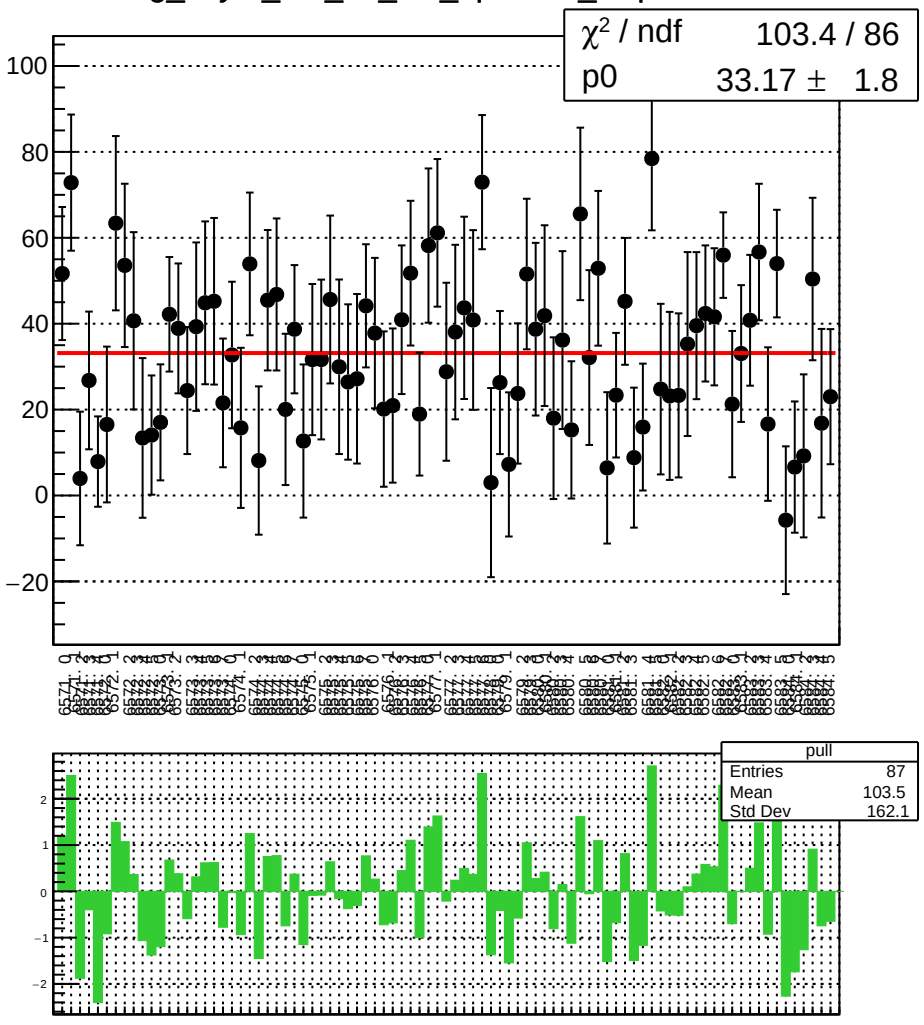

pull1D
Entries 87
Mean 0.4475
Std Dev 2.446

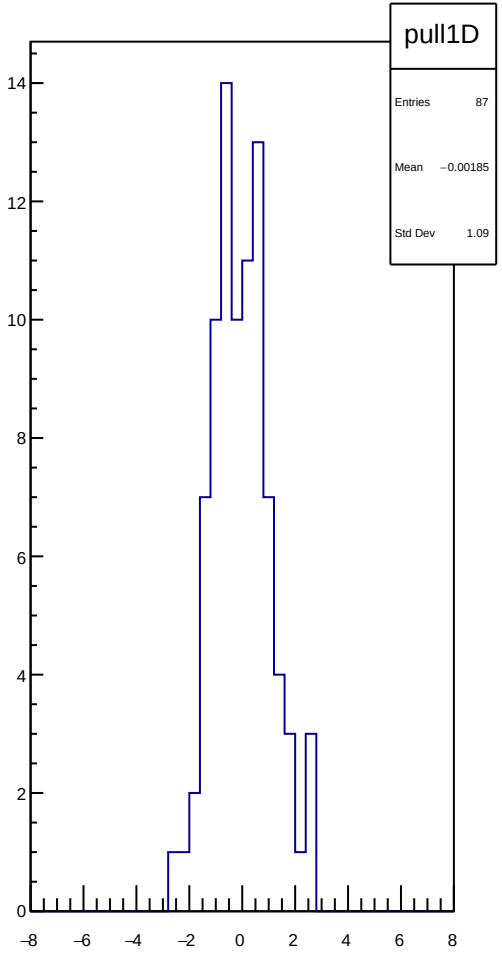

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 106.4 / 86
p0 17.68 ± 1.75
pull
Entries 87
Mean 10.8
Std Dev 90.92

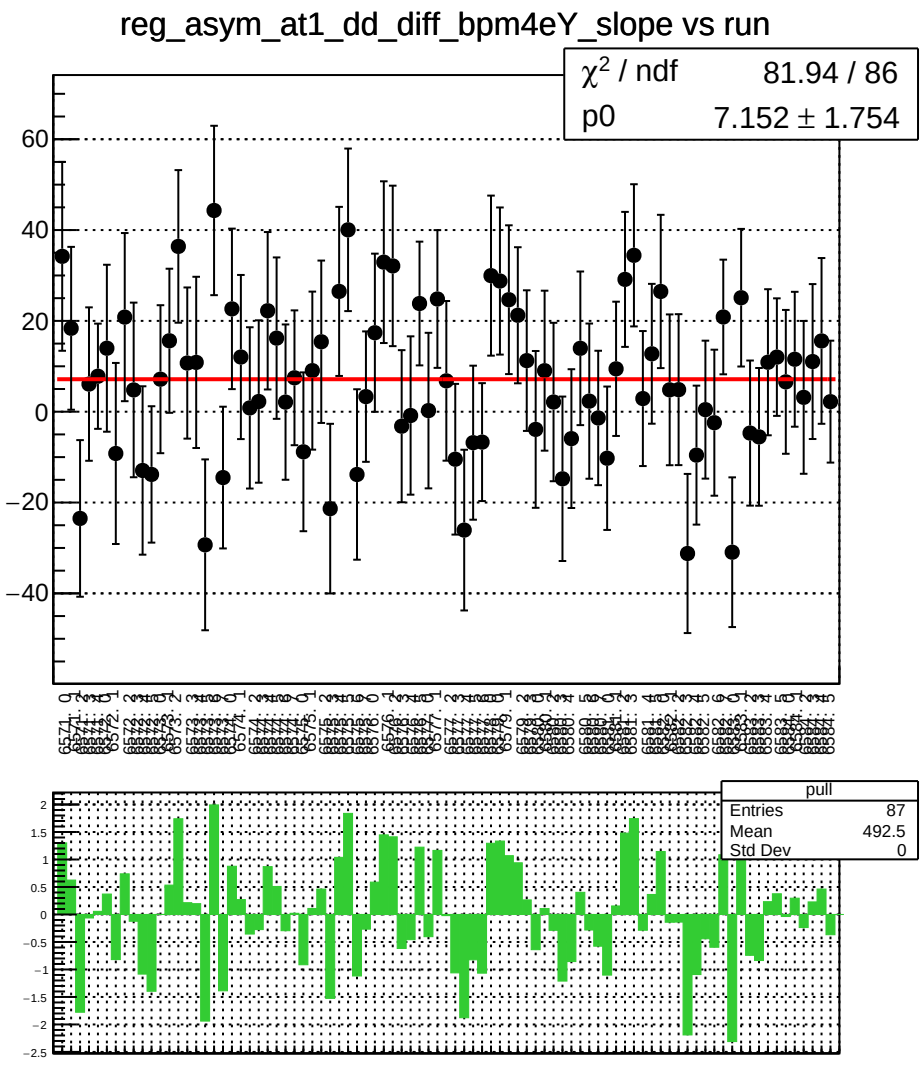

pull1D
Entries 87
Mean 0.006856
Std Dev 1.106

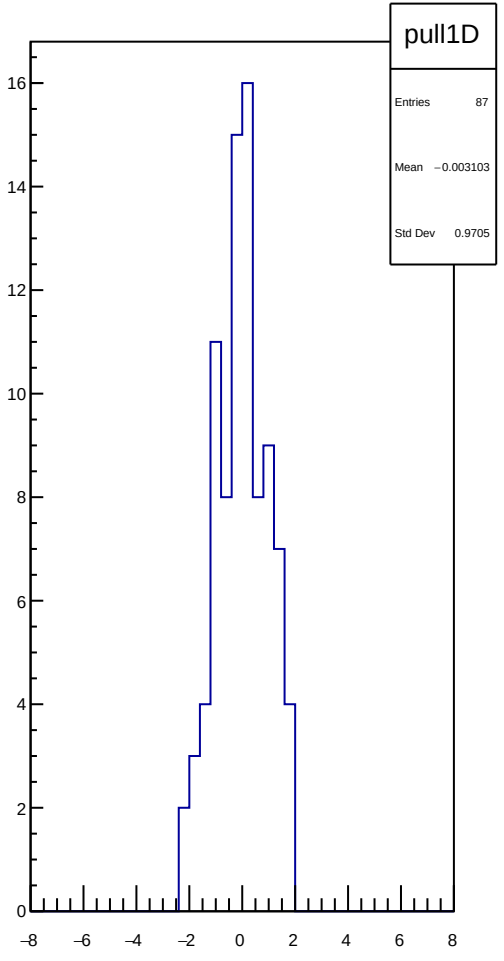

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.18 / 86
p0 −5.181 ± 1.466
pull
Entries 87
Mean −99.07
Std Dev 0

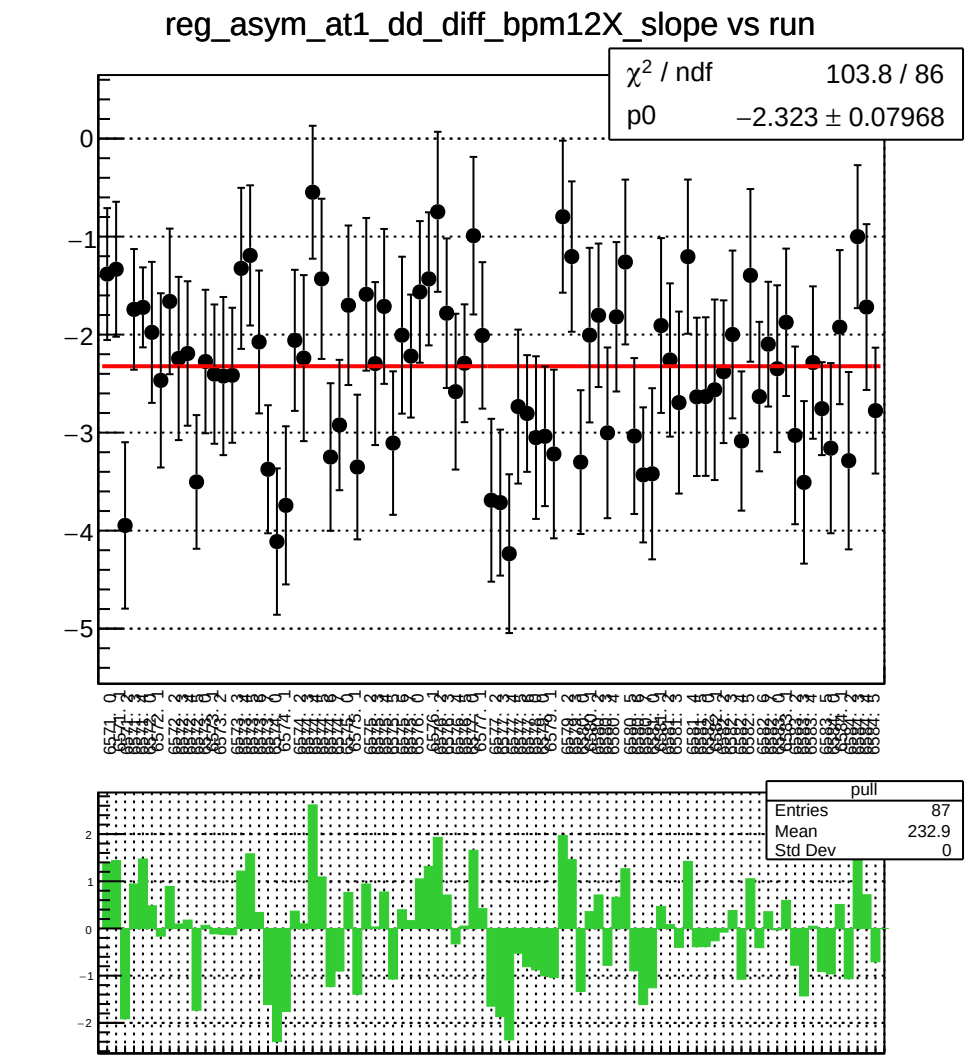

pull1D
Entries 87
Mean −0.005302
Std Dev 0.954

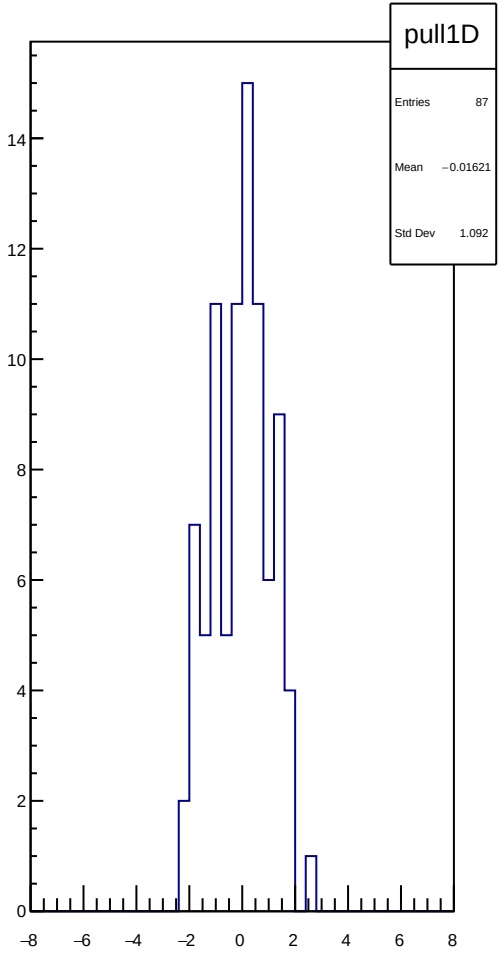

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.4 / 86
p0 33.17 ± 1.8
pull
Entries 87
Mean 103.5
Std Dev 162.1

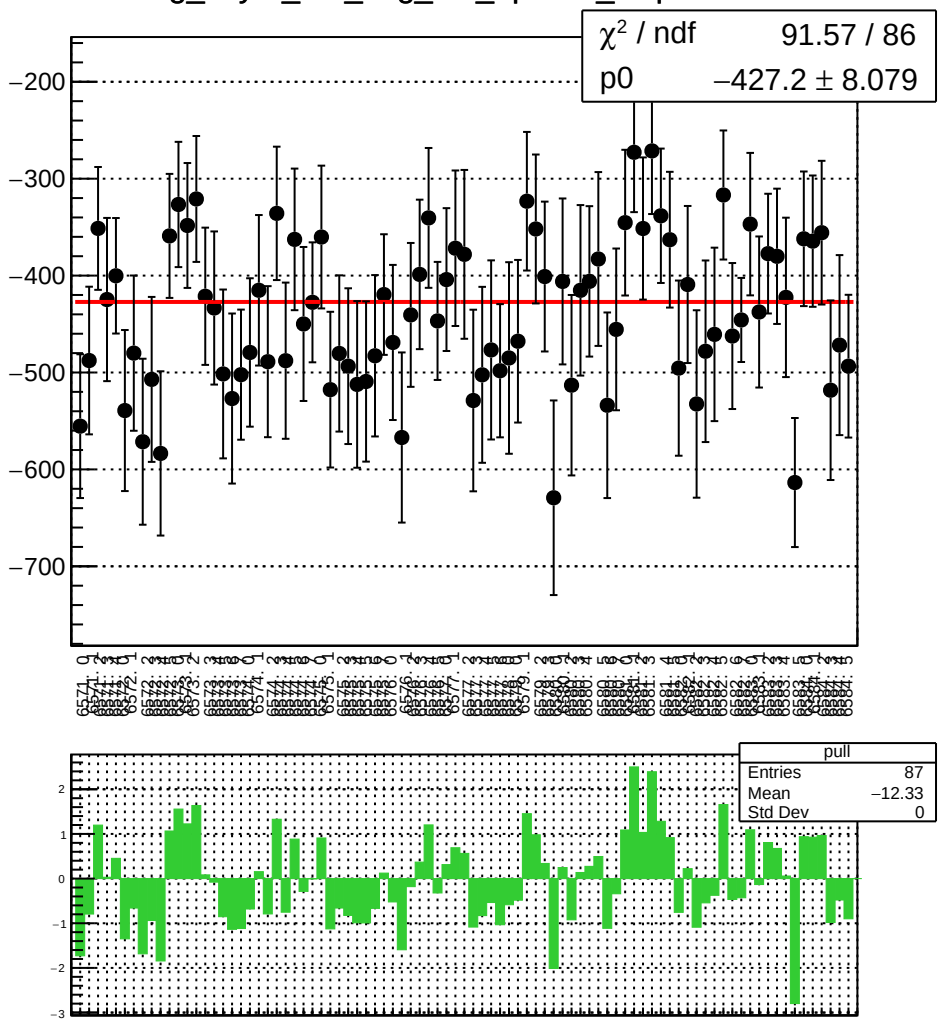

pull1D
Entries 87
Mean −0.00185
Std Dev 1.09

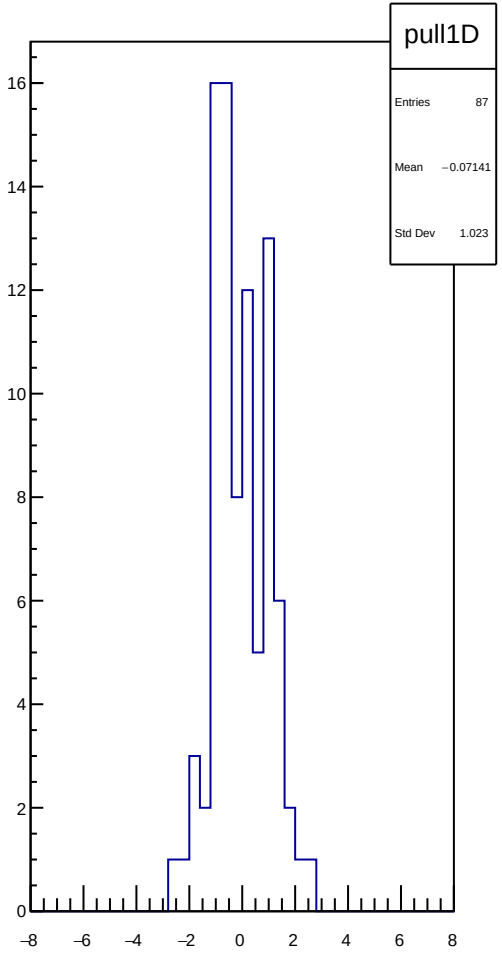

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.94 / 86
p0 7.152 ± 1.754
pull
Entries 87
Mean 492.5
Std Dev 0

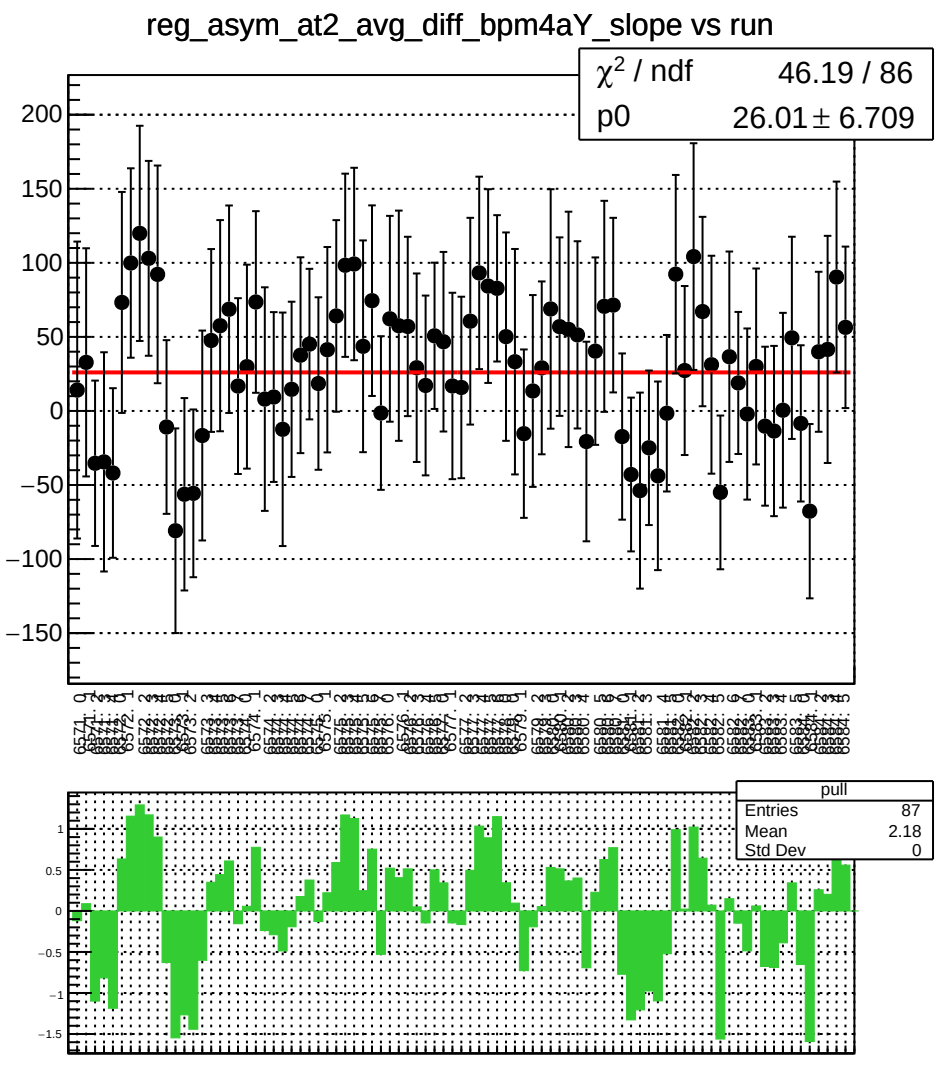

pull1D
Entries 87
Mean −0.003103
Std Dev 0.9705

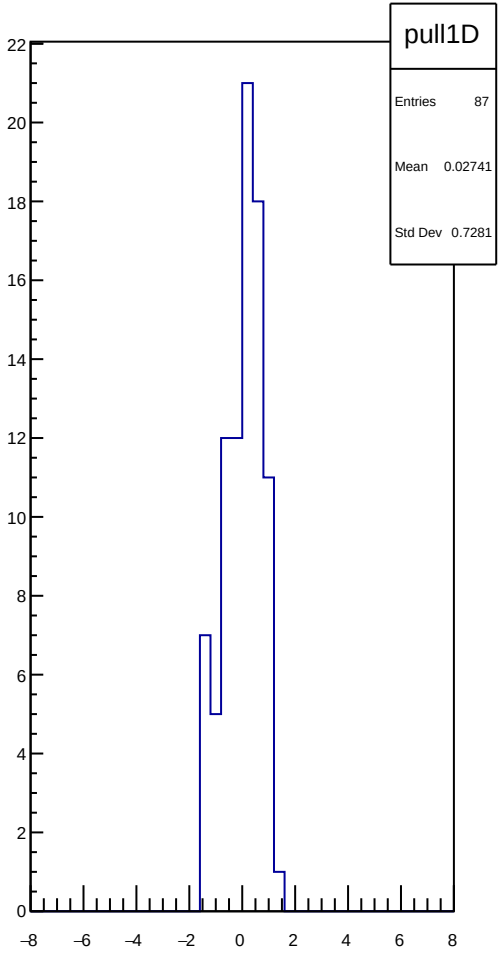

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 103.8 / 86
p0 −2.323 ± 0.07968
pull
Entries 87
Mean 232.9
Std Dev 0

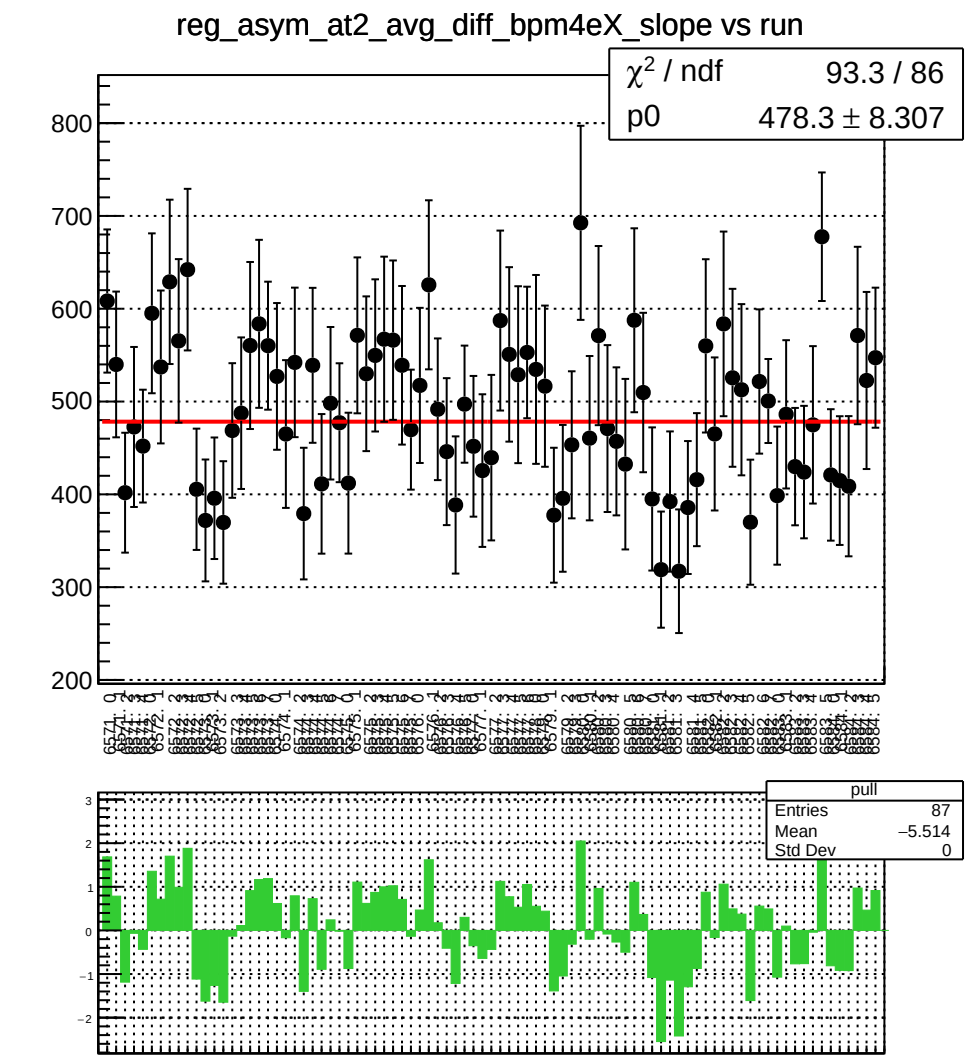

pull1D
Entries 87
Mean −0.01621
Std Dev 1.092

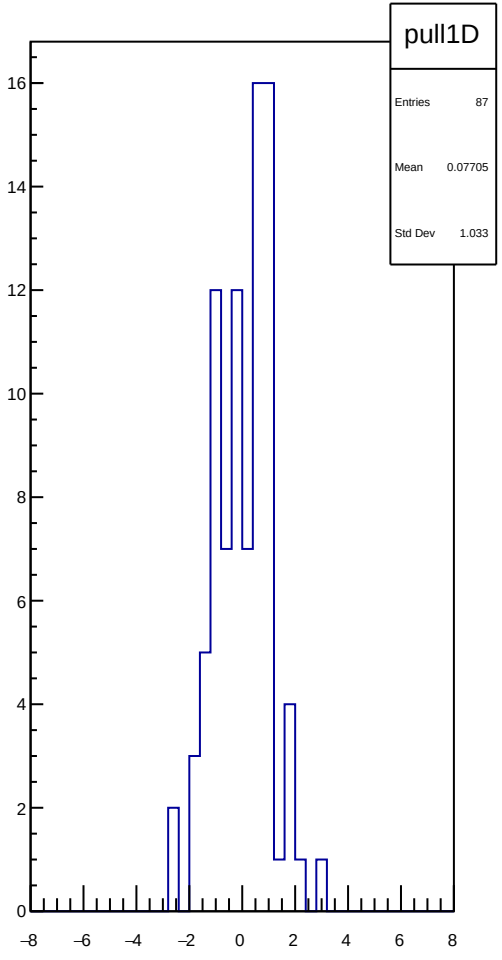

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 91.57 / 86
p0 −427.2 ± 8.079
pull
Entries 87
Mean −12.33
Std Dev 0

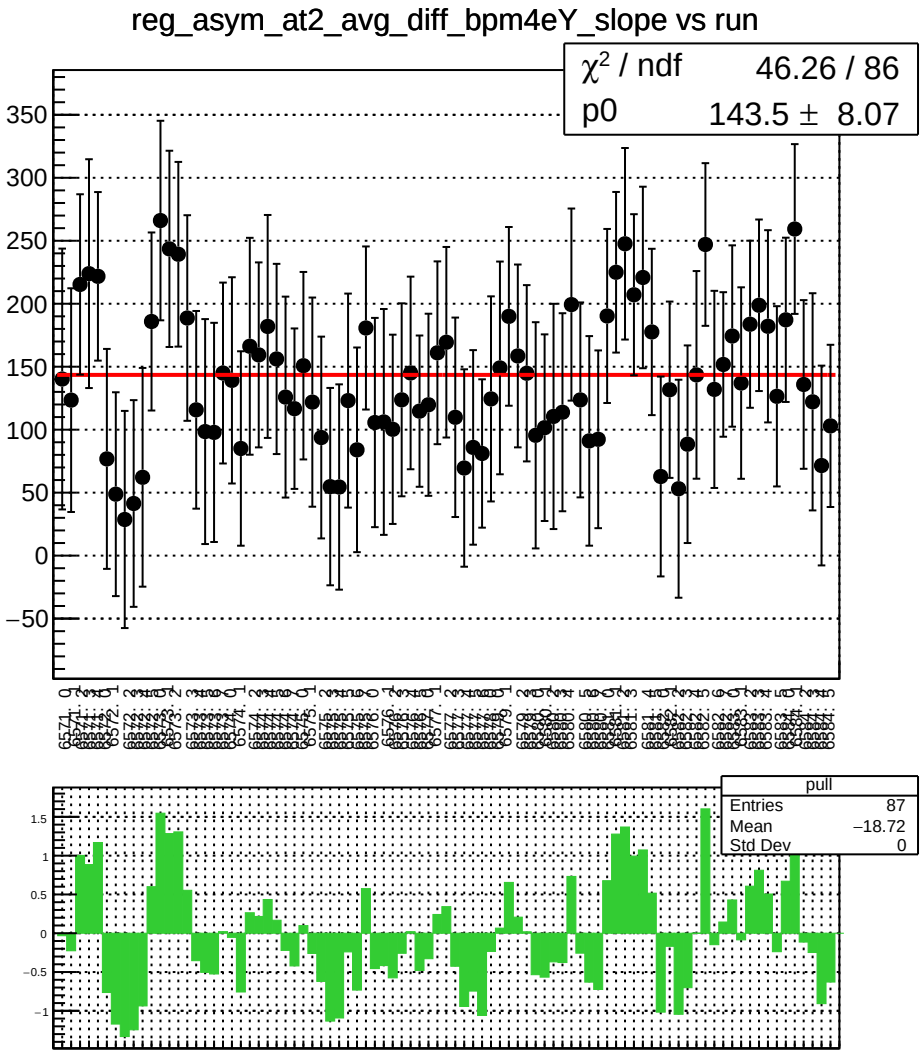

pull1D
Entries 87
Mean −0.07141
Std Dev 1.023

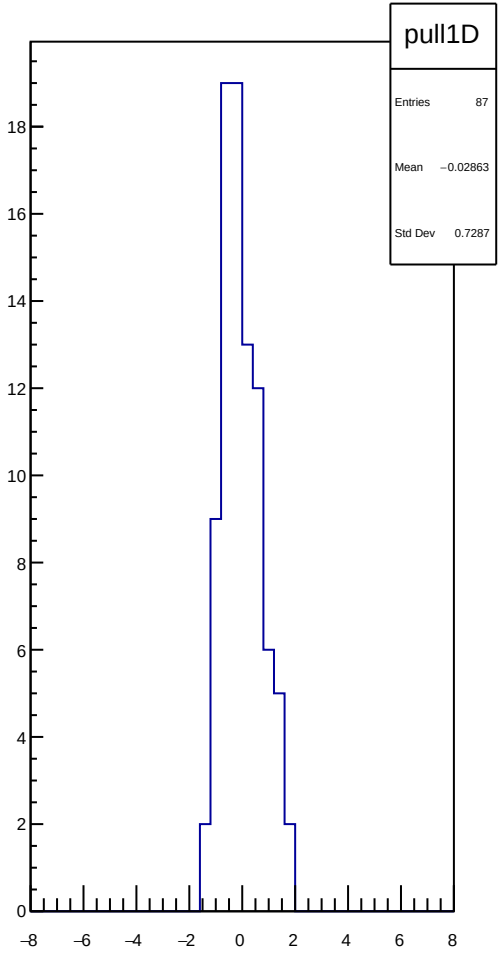

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.19 / 86
p0 26.01 ± 6.709
pull
Entries 87
Mean 2.18
Std Dev 0

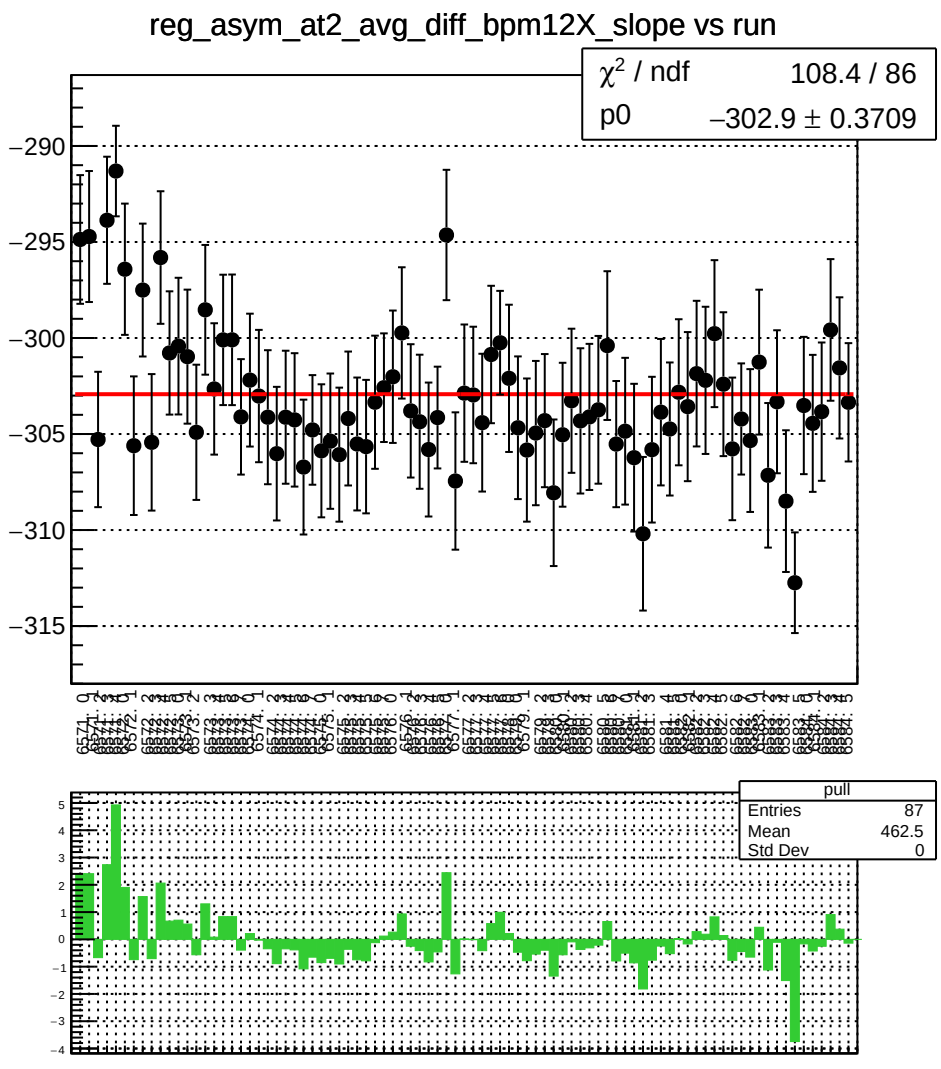

pull1D
Entries 87
Mean 0.02741
Std Dev 0.7281

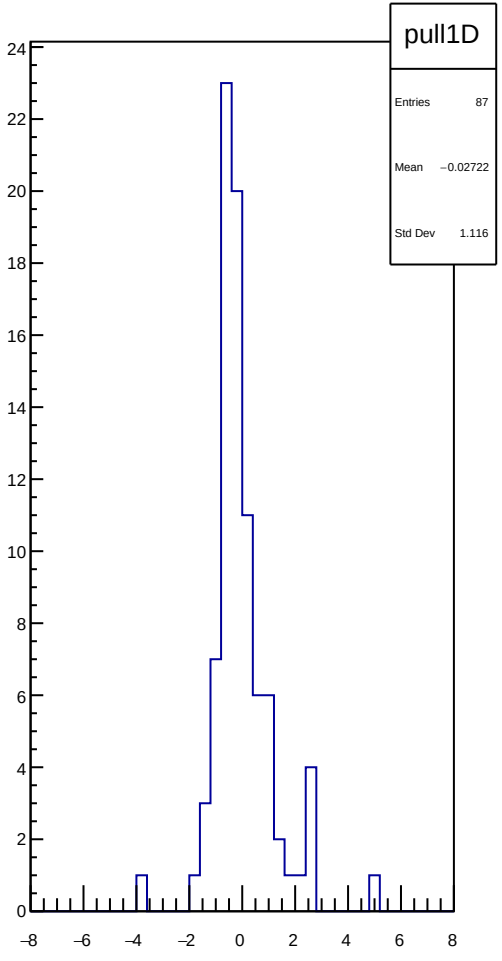

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 93.3 / 86
p0 478.3 ± 8.307
pull
Entries 87
Mean −5.514
Std Dev 0

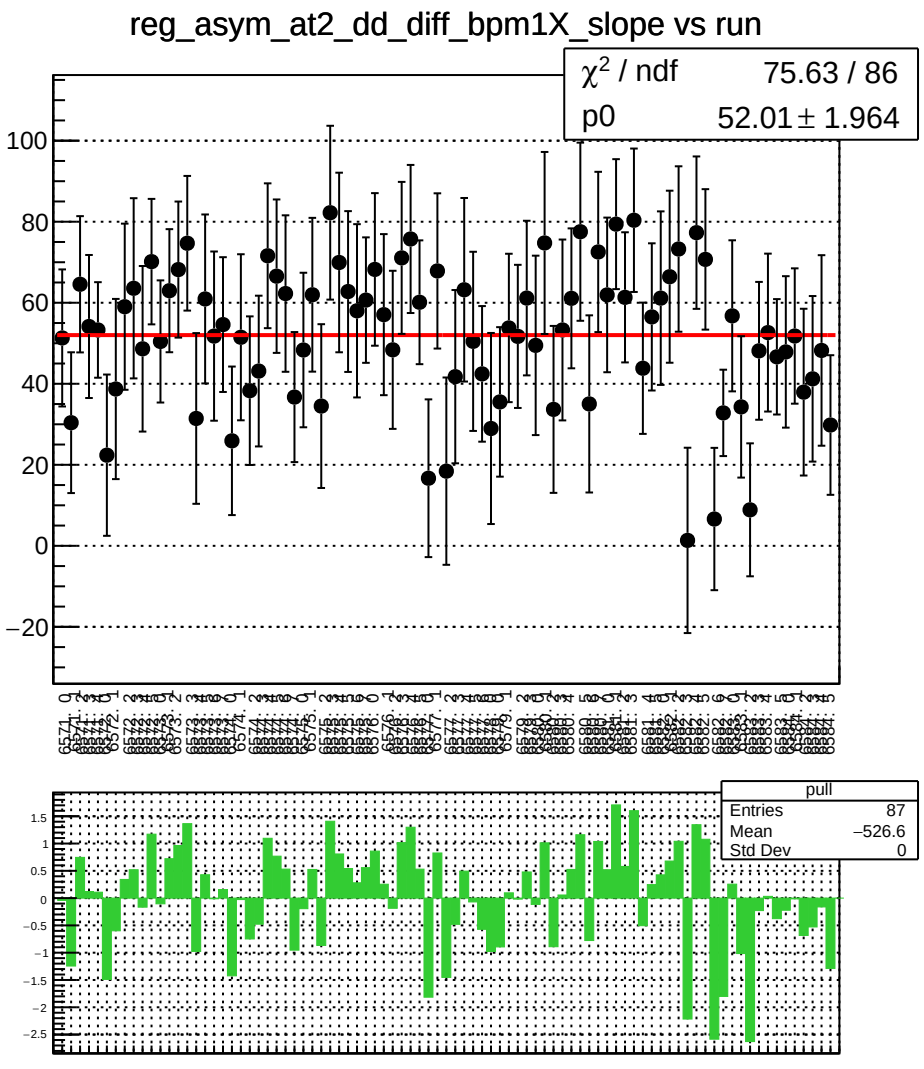

pull1D
Entries 87
Mean 0.07705
Std Dev 1.033

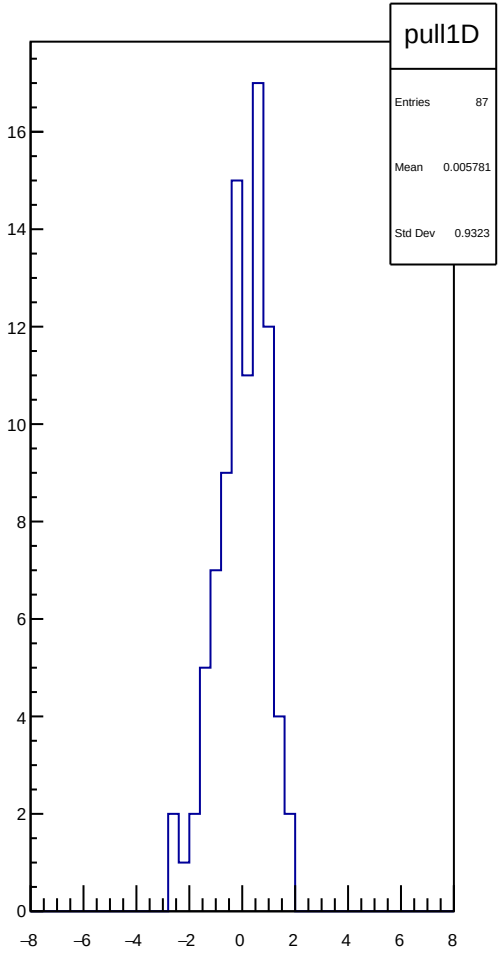

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.26 / 86
p0 143.5 ± 8.07
pull
Entries 87
Mean −18.72
Std Dev 0

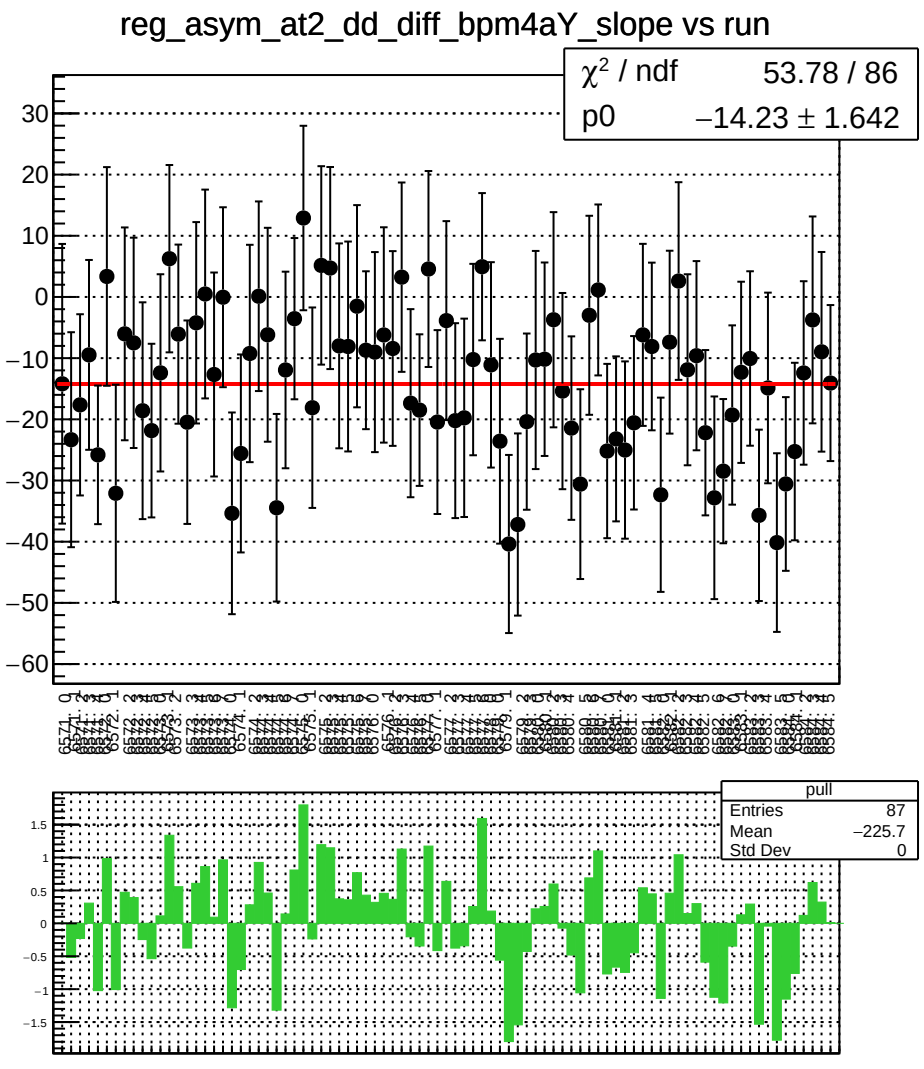

pull1D
Entries 87
Mean −0.02863
Std Dev 0.7287

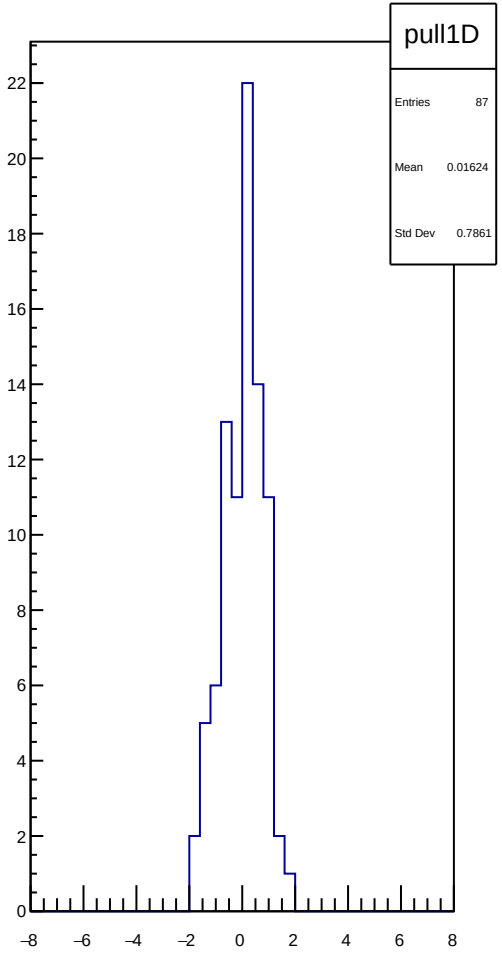

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 108.4 / 86
p0 −302.9 ± 0.3709
pull
Entries 87
Mean 462.5
Std Dev 0

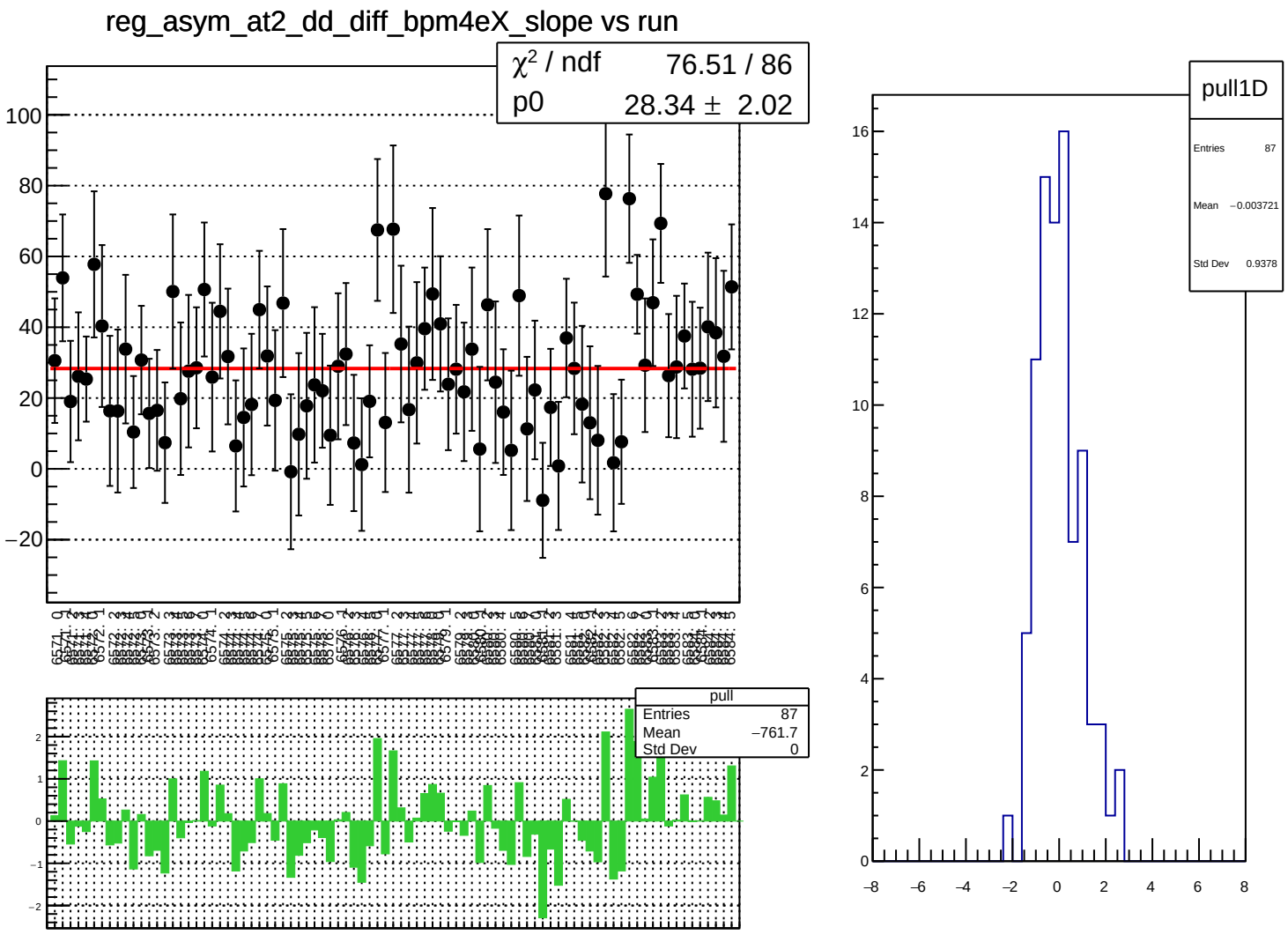

pull1D
Entries 87
Mean −0.02722
Std Dev 1.116

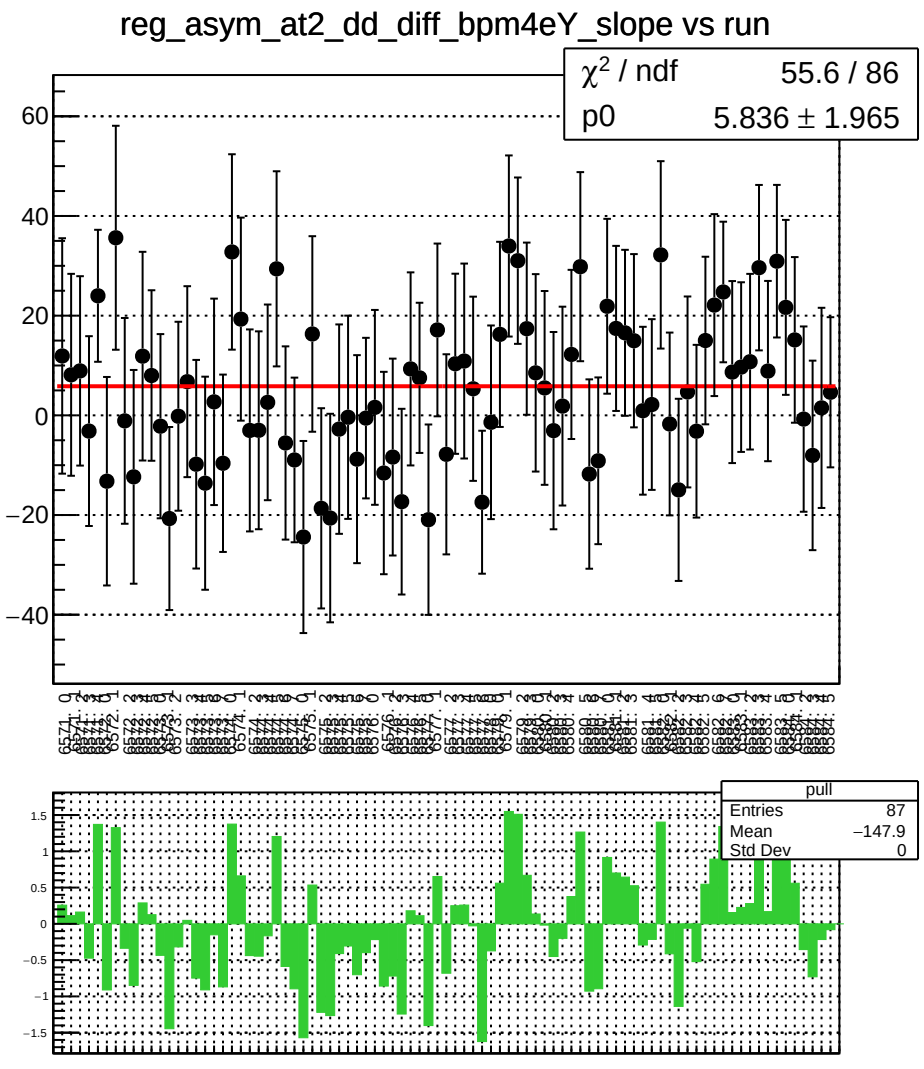

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 75.63 / 86
p0 52.01 ± 1.964
pull
Entries 87
Mean −526.6
Std Dev 0

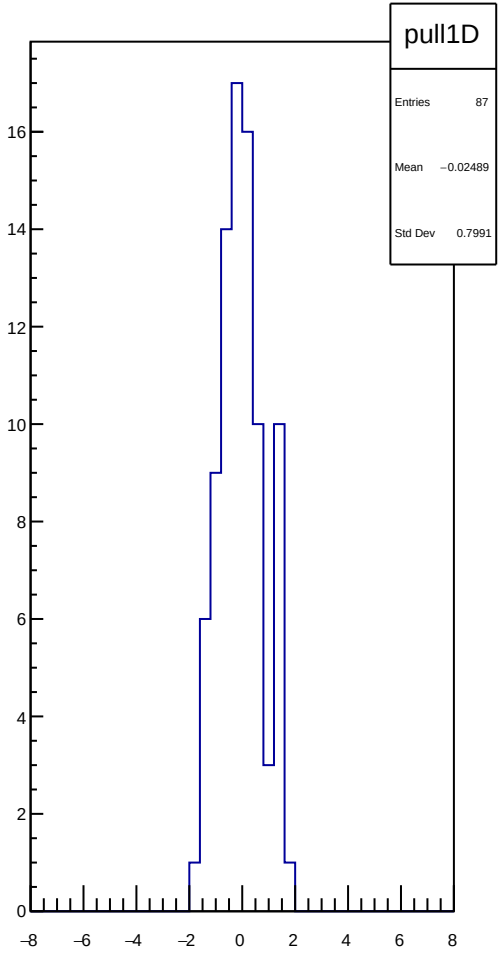

pull1D
Entries 87
Mean 0.005781
Std Dev 0.9323

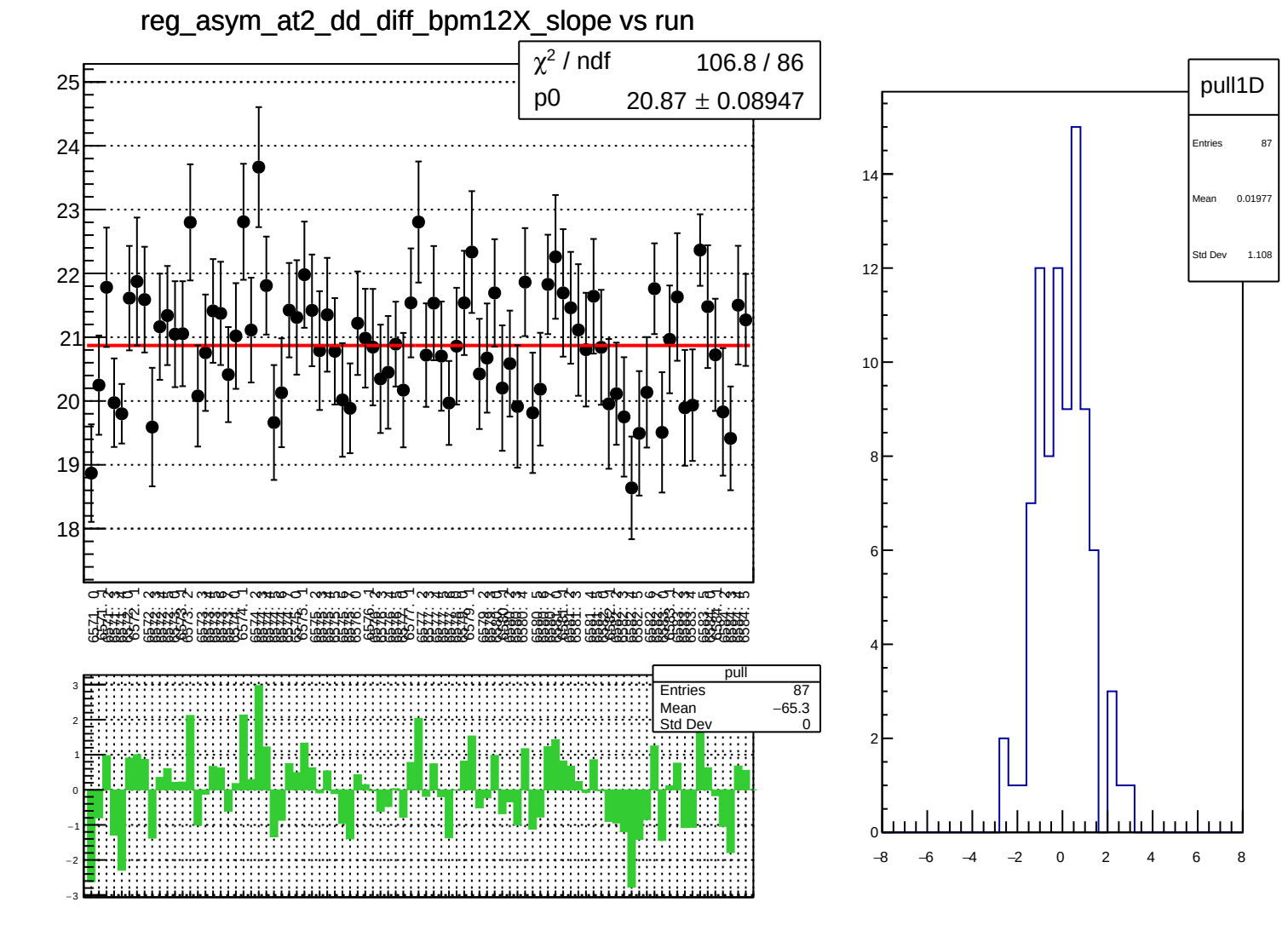

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.78 / 86
p0 −14.23 ± 1.642
pull
Entries 87
Mean −225.7
Std Dev 0

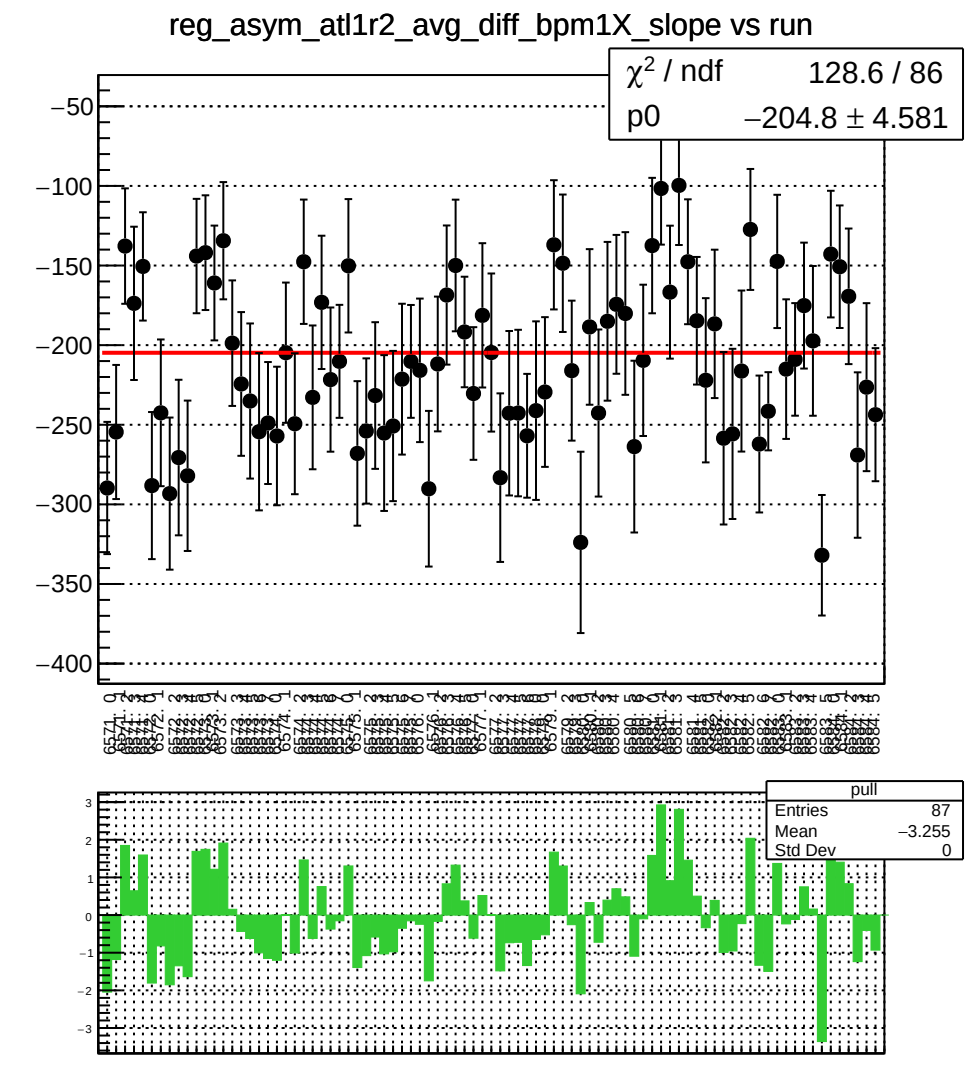

pull1D
Entries 87
Mean 0.01624
Std Dev 0.7861

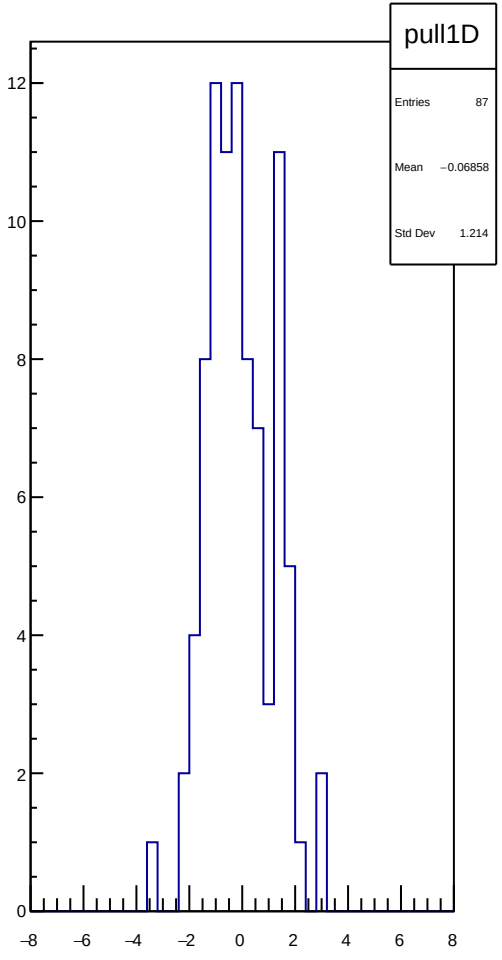

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.51 / 86
p0 28.34 ± 2.02
pull
Entries 87
Mean −761.7
Std Dev 0
pull1D
Entries 87
Mean −0.003721
Std Dev 0.9378

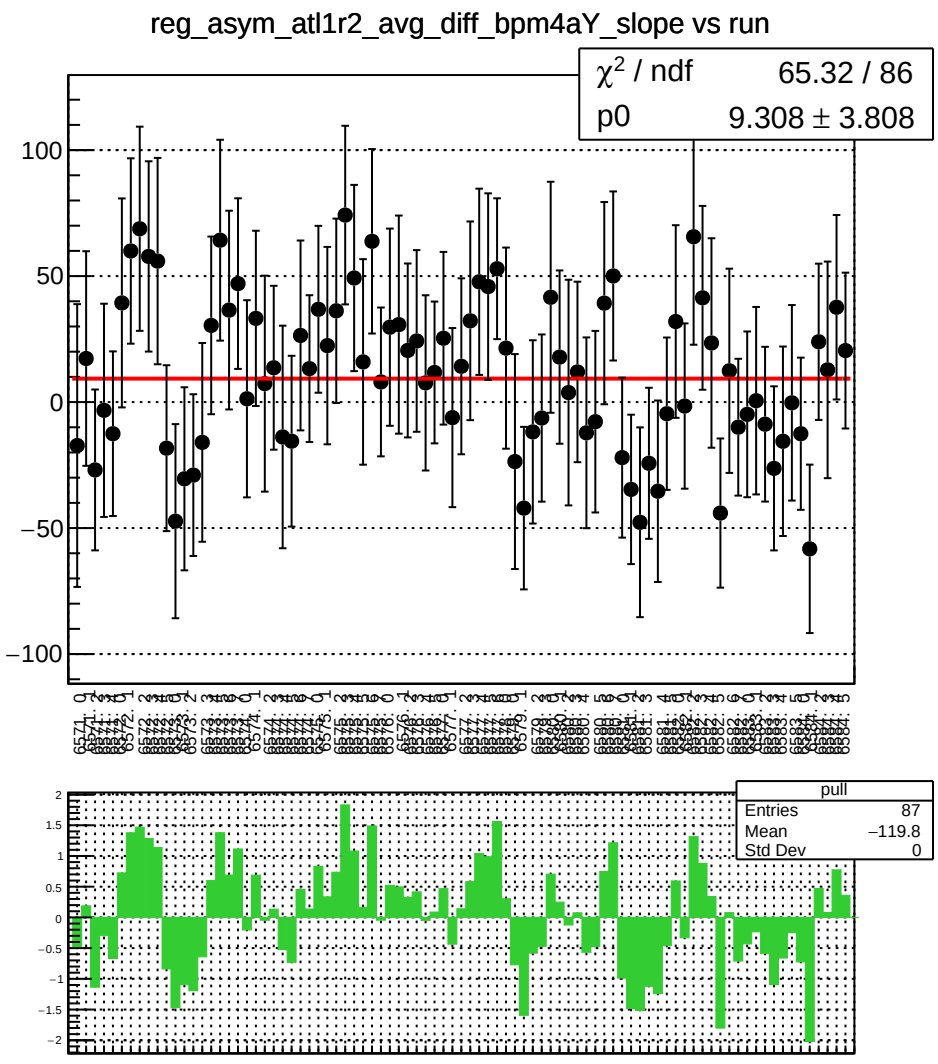

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.6 / 86
p0 5.836 ± 1.965
pull
Entries 87
Mean −147.9
Std Dev 0

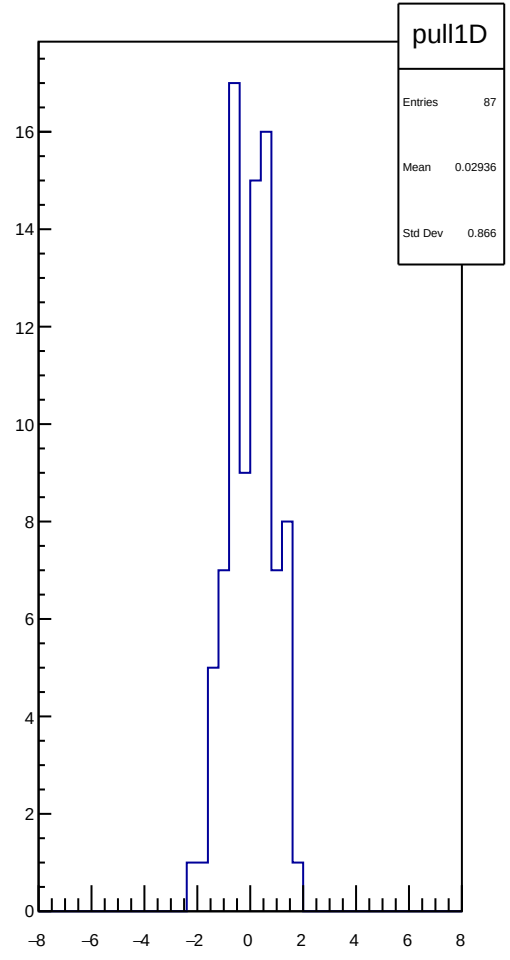

pull1D
Entries 87
Mean −0.02489
Std Dev 0.7991

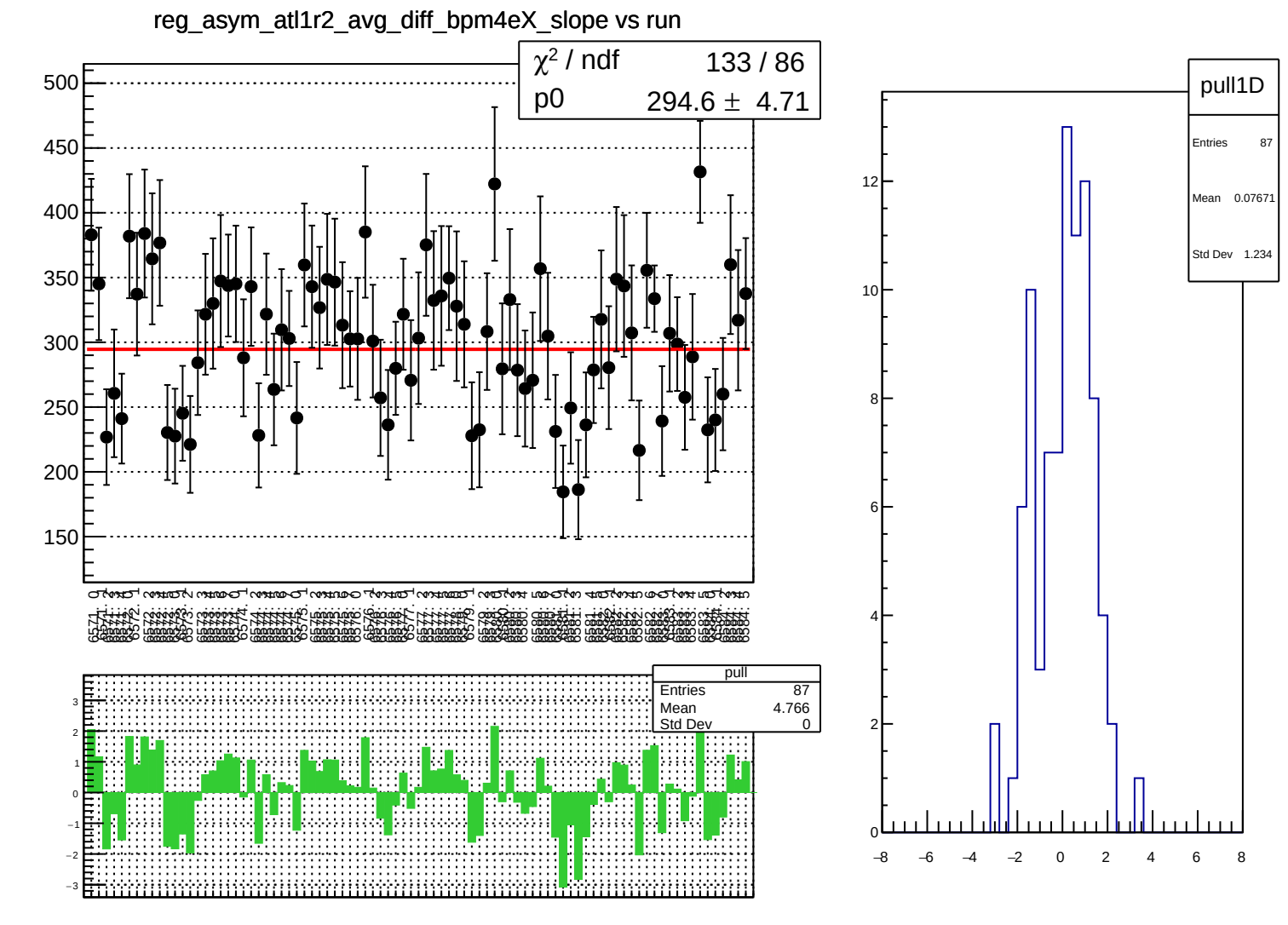

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 106.8 / 86
p0 20.87 ± 0.08947
pull
Entries 87
Mean −65.3
Std Dev 0
pull1D
Entries 87
Mean 0.01977
Std Dev 1.108

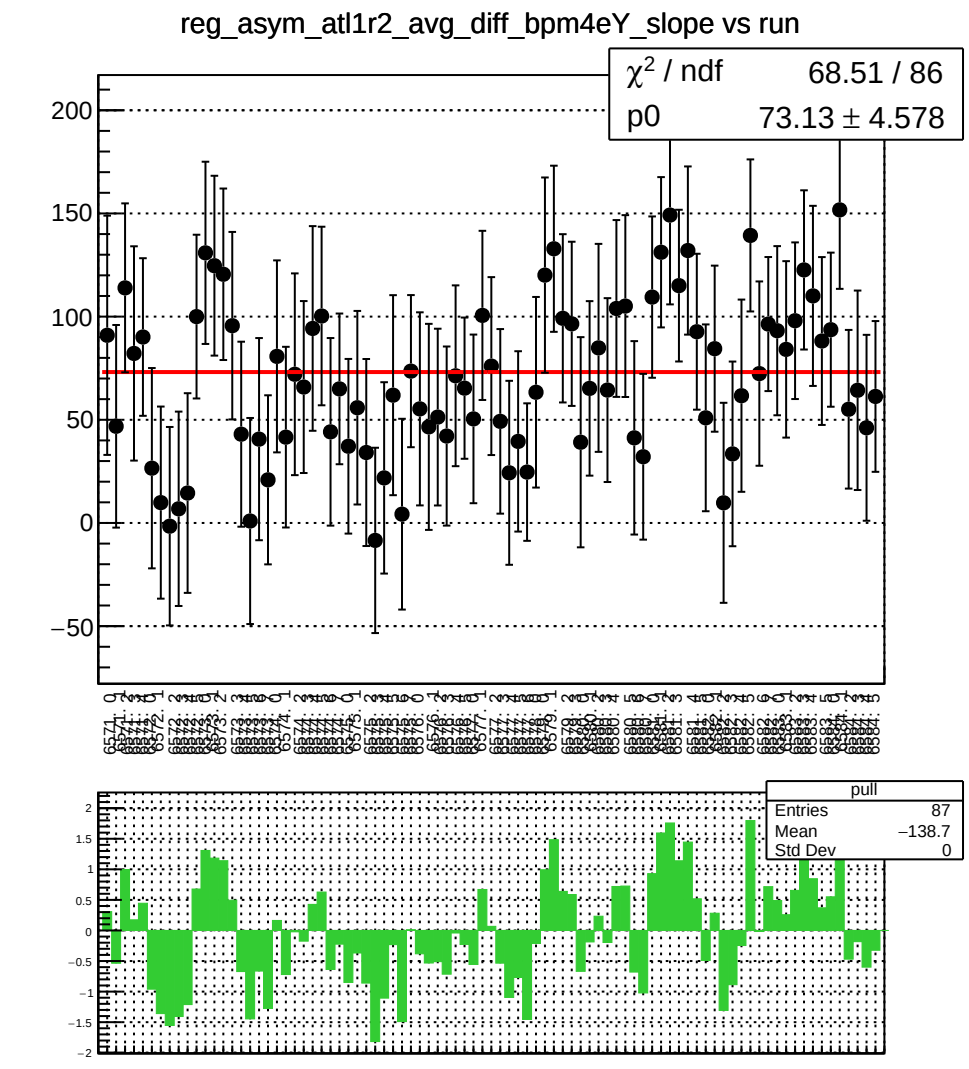

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 128.6 / 86
p0 −204.8 ± 4.581
pull
Entries 87
Mean −3.255
Std Dev 0

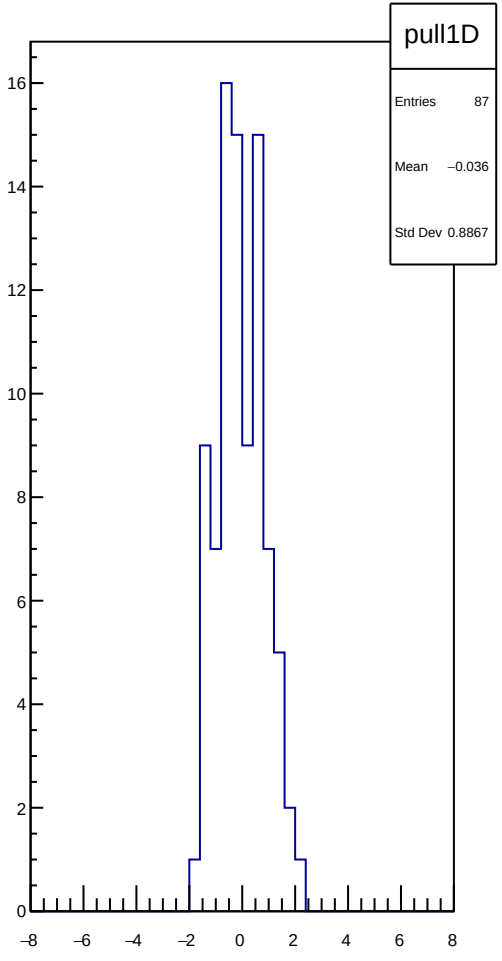

pull1D
Entries 87
Mean −0.06858
Std Dev 1.214

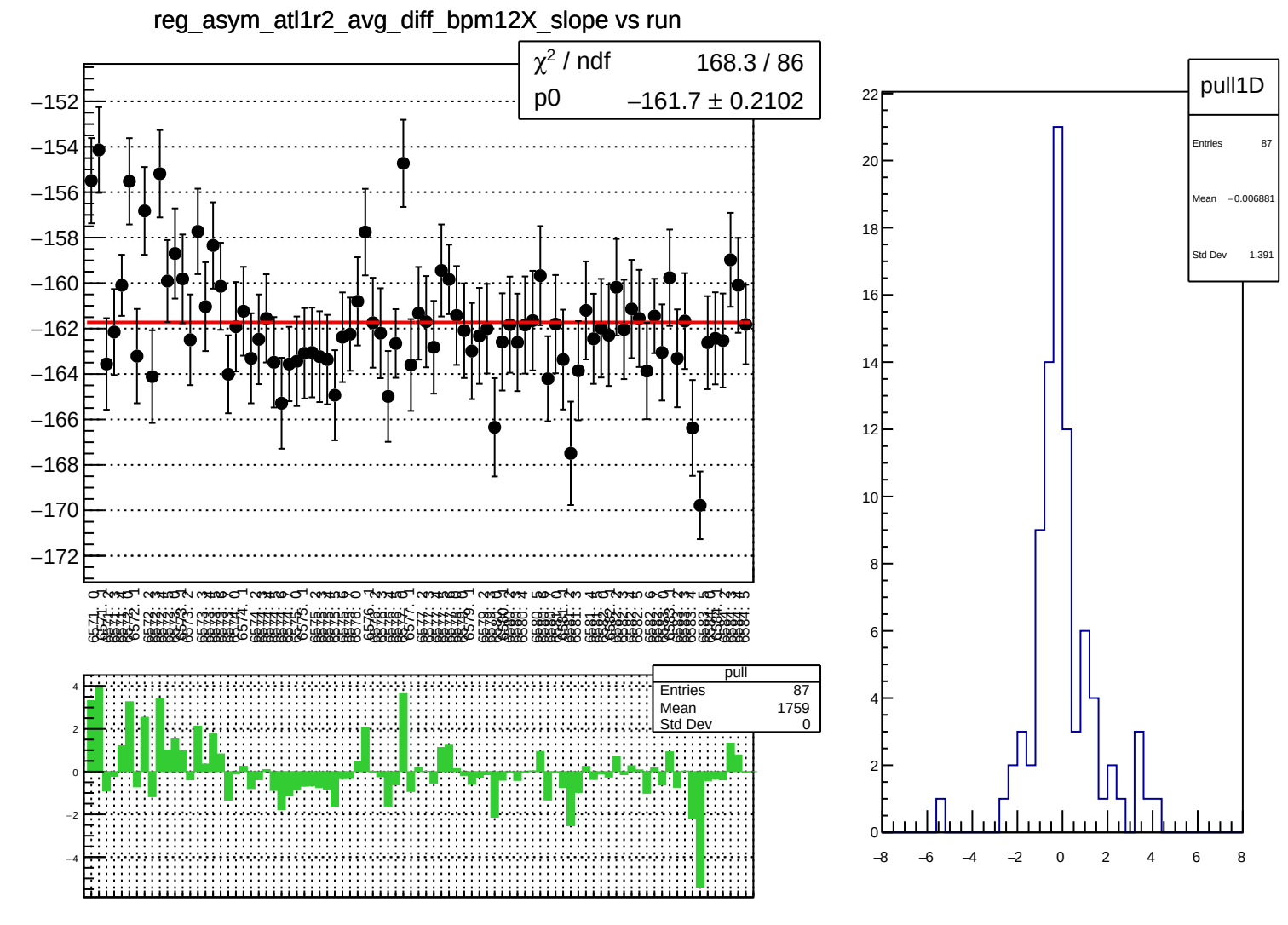

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 65.32 / 86
p0 9.308 ± 3.808
100
50
0
−50
−100
pull
Entries 87
Mean −119.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

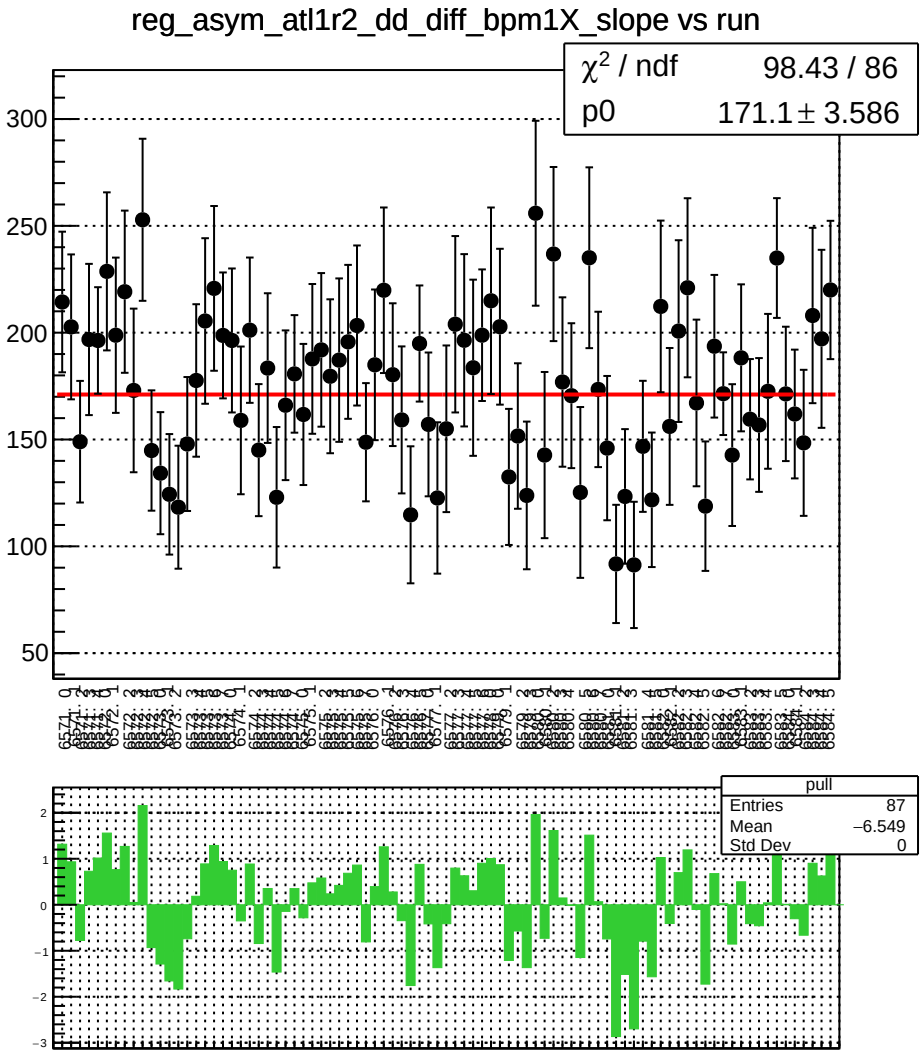

pull1D
Entries 87
Mean 0.02936
Std Dev 0.866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

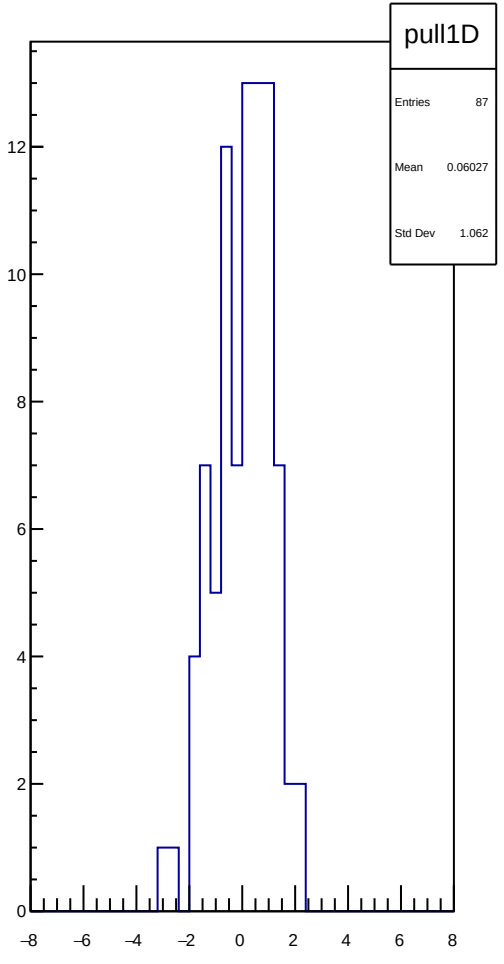

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 133 / 86
p0 294.6 ± 4.71
pull
Entries 87
Mean 4.766
Std Dev 0
pull1D
Entries 87
Mean 0.07671
Std Dev 1.234

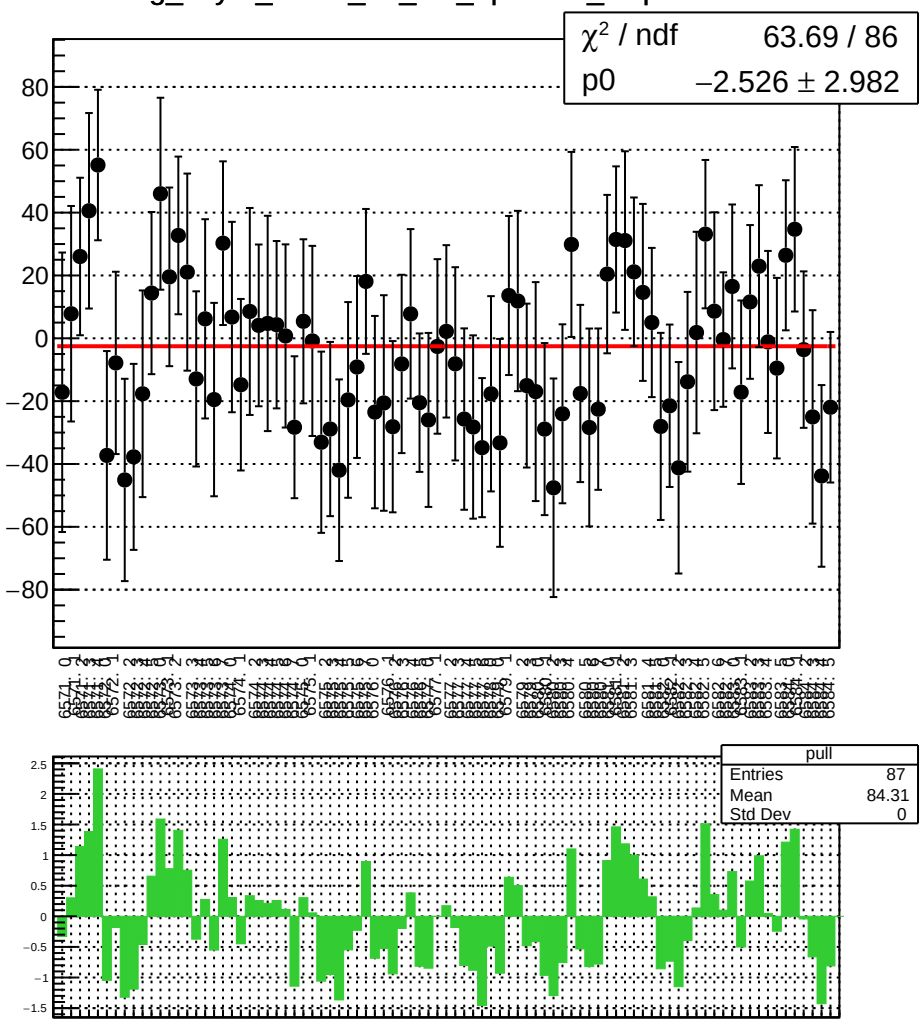

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.51 / 86
p0 73.13 ± 4.578
pull
Entries 87
Mean −138.7
Std Dev 0

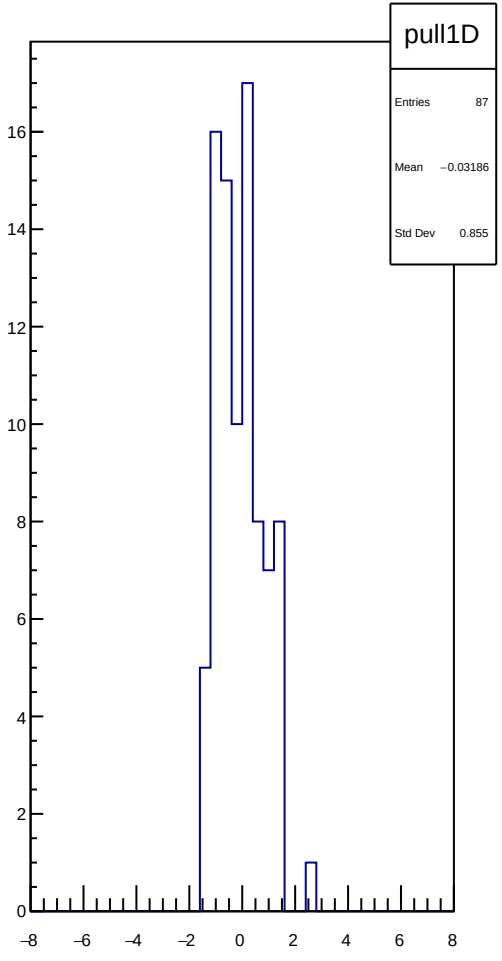

pull1D
Entries 87
Mean −0.036
Std Dev 0.8867

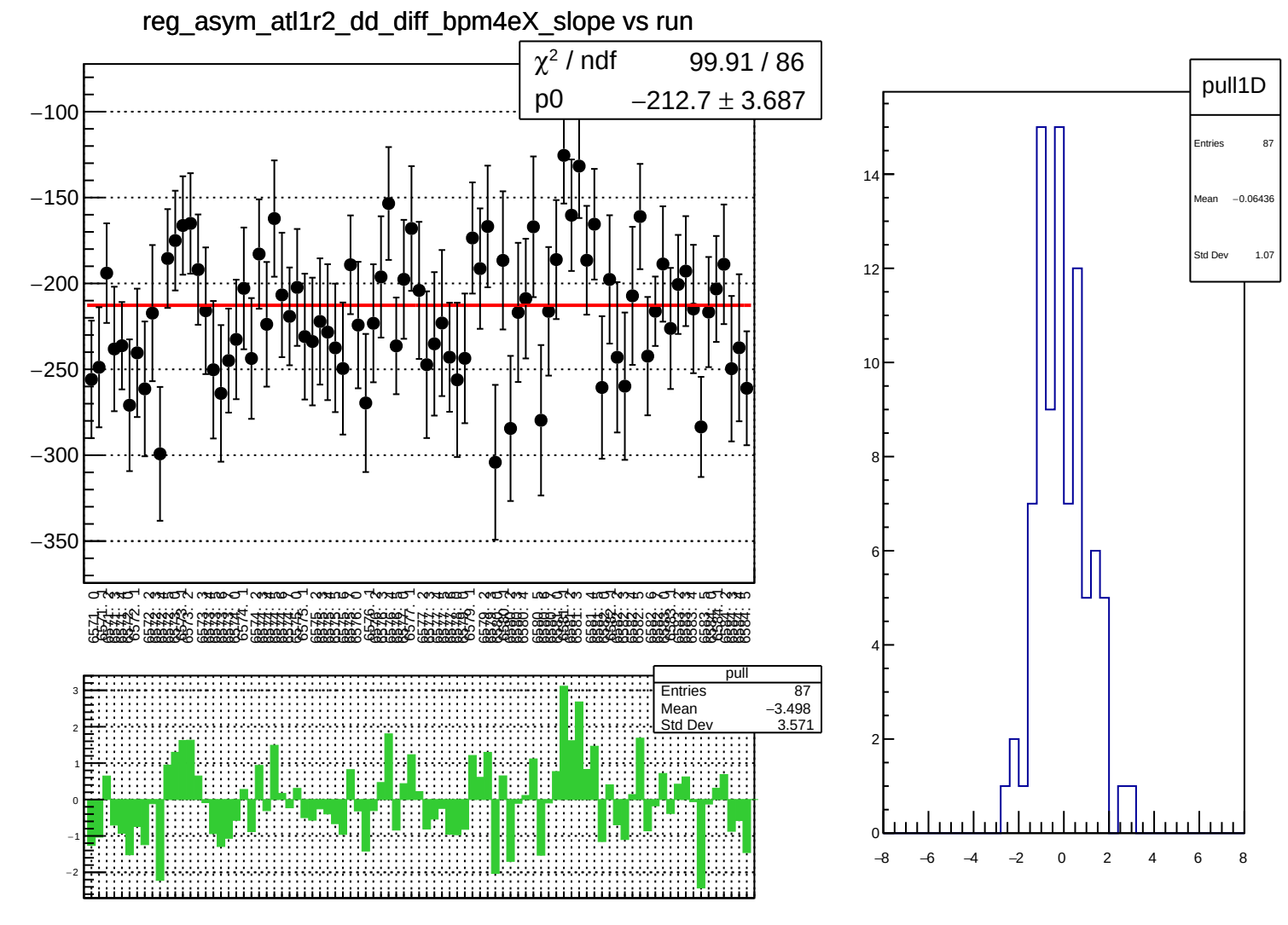

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 168.3 / 86
p0 −161.7 ± 0.2102
pull
Entries 87
Mean 1759
Std Dev 0
pull1D
Entries 87
Mean −0.006881
Std Dev 1.391

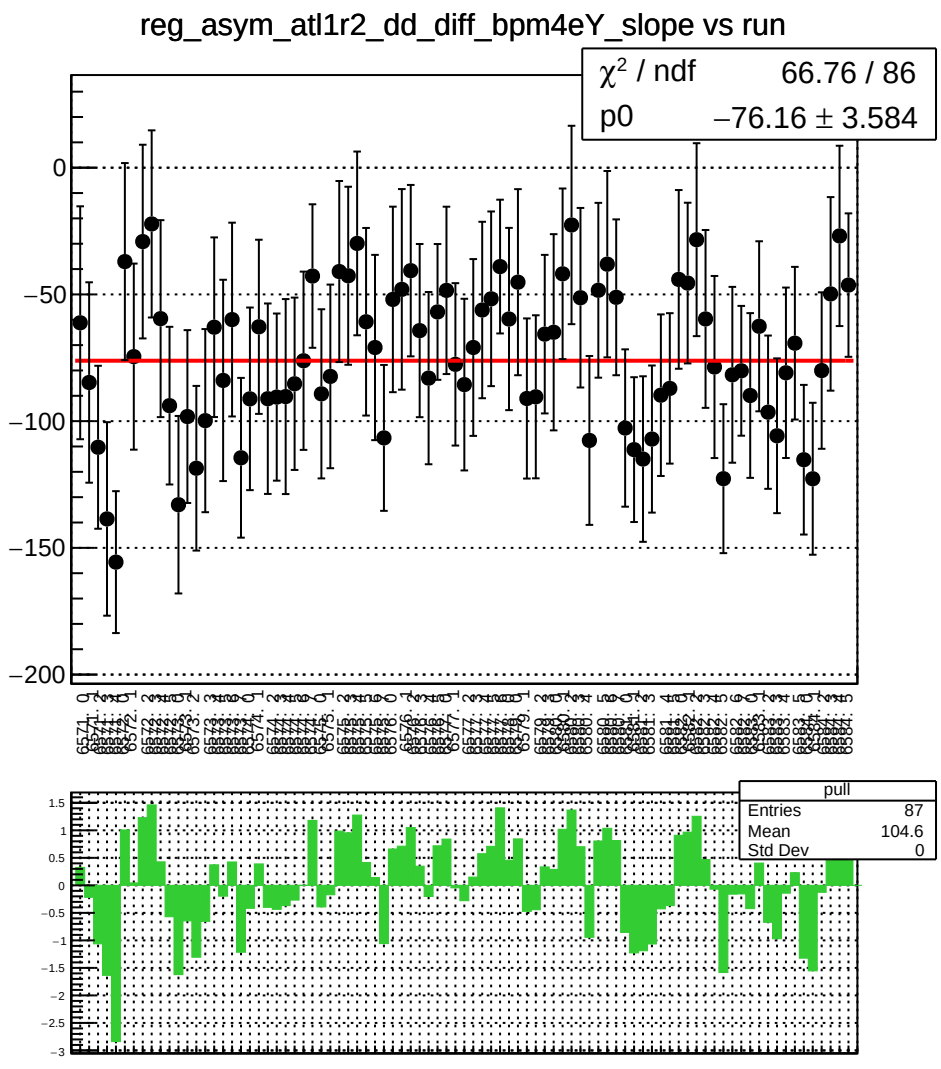

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 98.43 / 86
p0 171.1 ± 3.586
pull
Entries 87
Mean −6.549
Std Dev 0

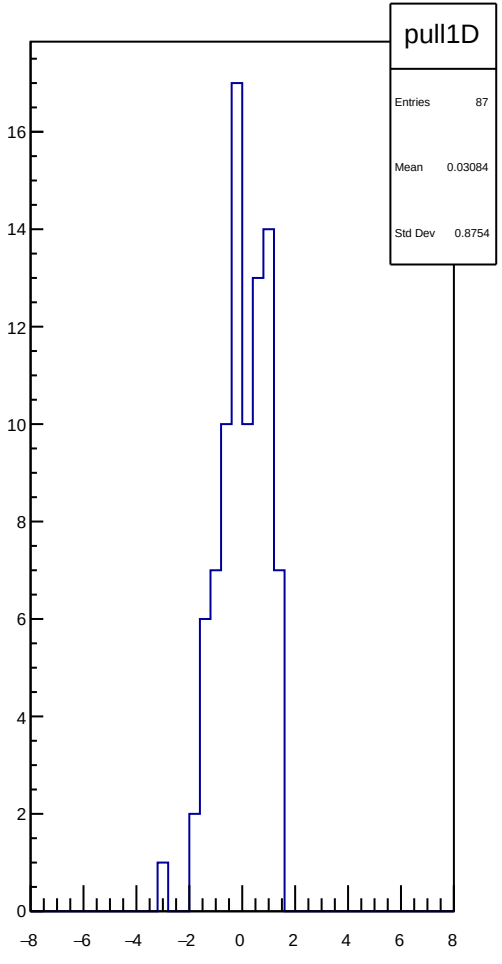

pull1D
Entries 87
Mean 0.06027
Std Dev 1.062

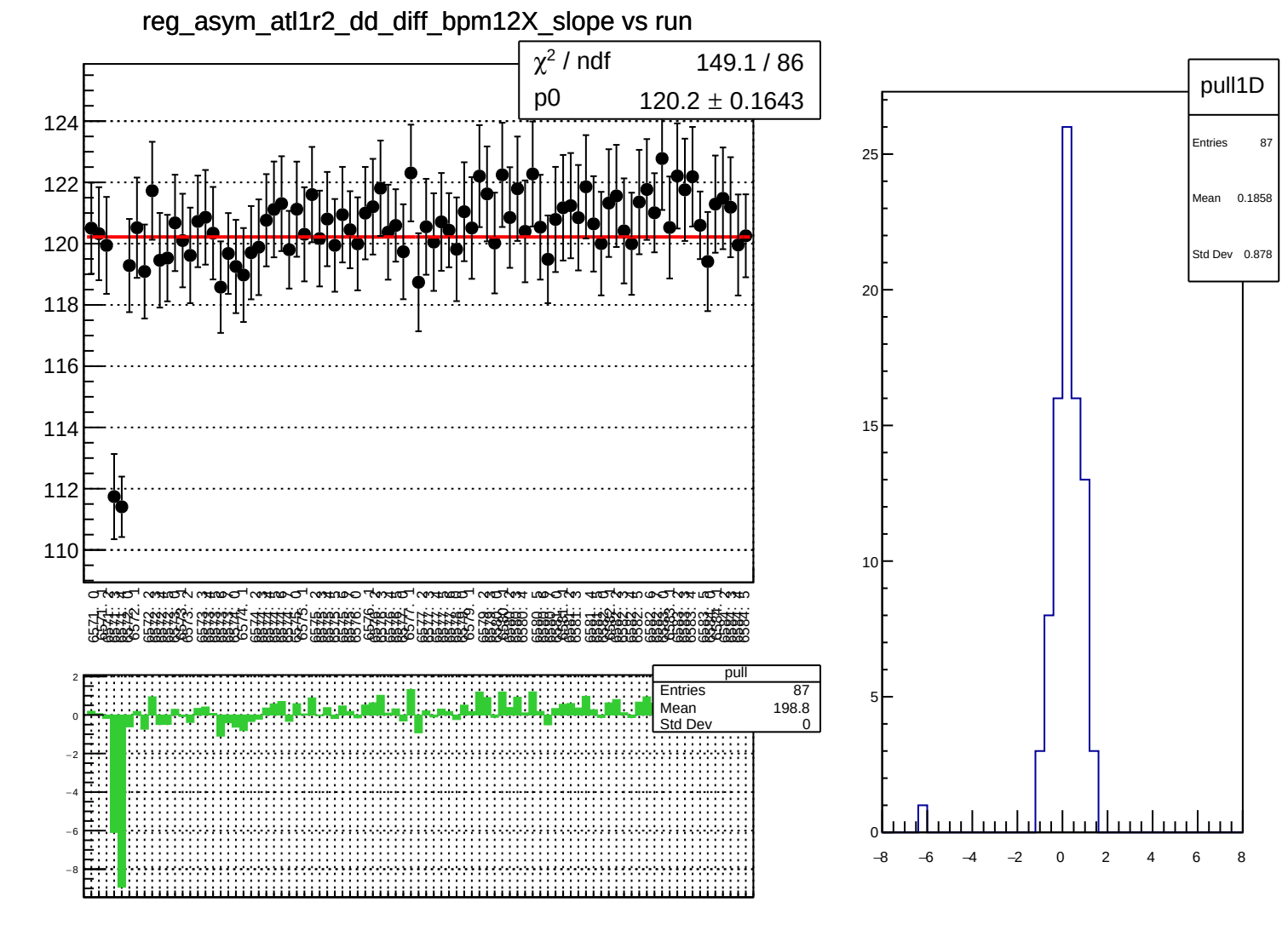

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.69 / 86
p0 −2.526 ± 2.982
pull
Entries 87
Mean 84.31
Std Dev 0

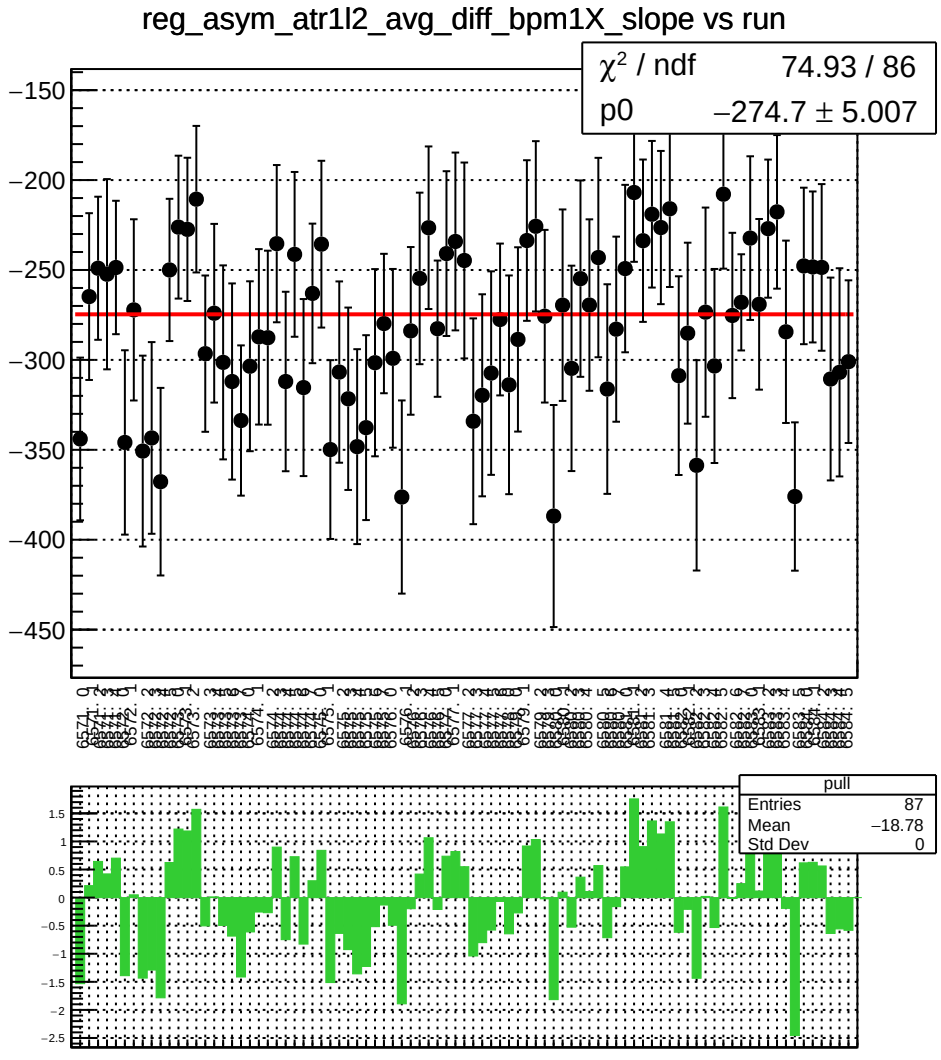

pull1D
Entries 87
Mean −0.03186
Std Dev 0.855

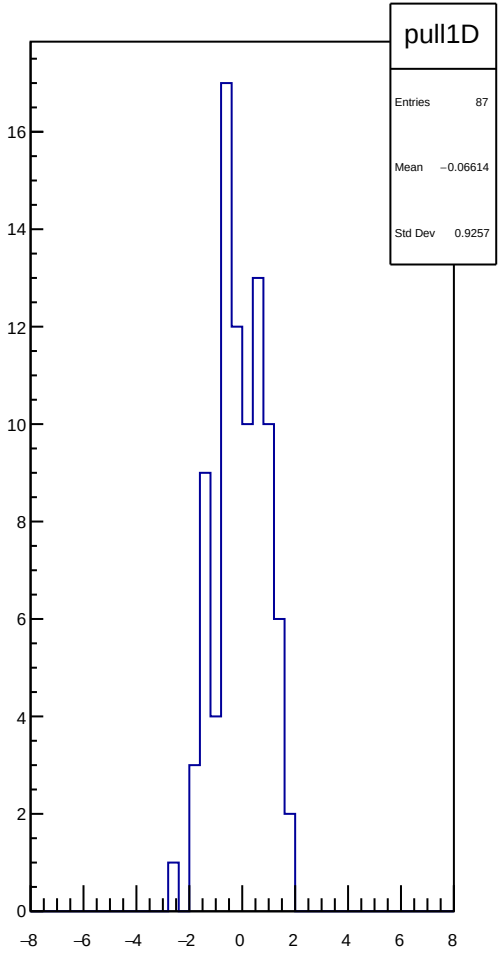

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 99.91 / 86
p0 −212.7 ± 3.687
pull
Entries 87
Mean −3.498
Std Dev 3.571
pull1D
Entries 87
Mean −0.06436
Std Dev 1.07

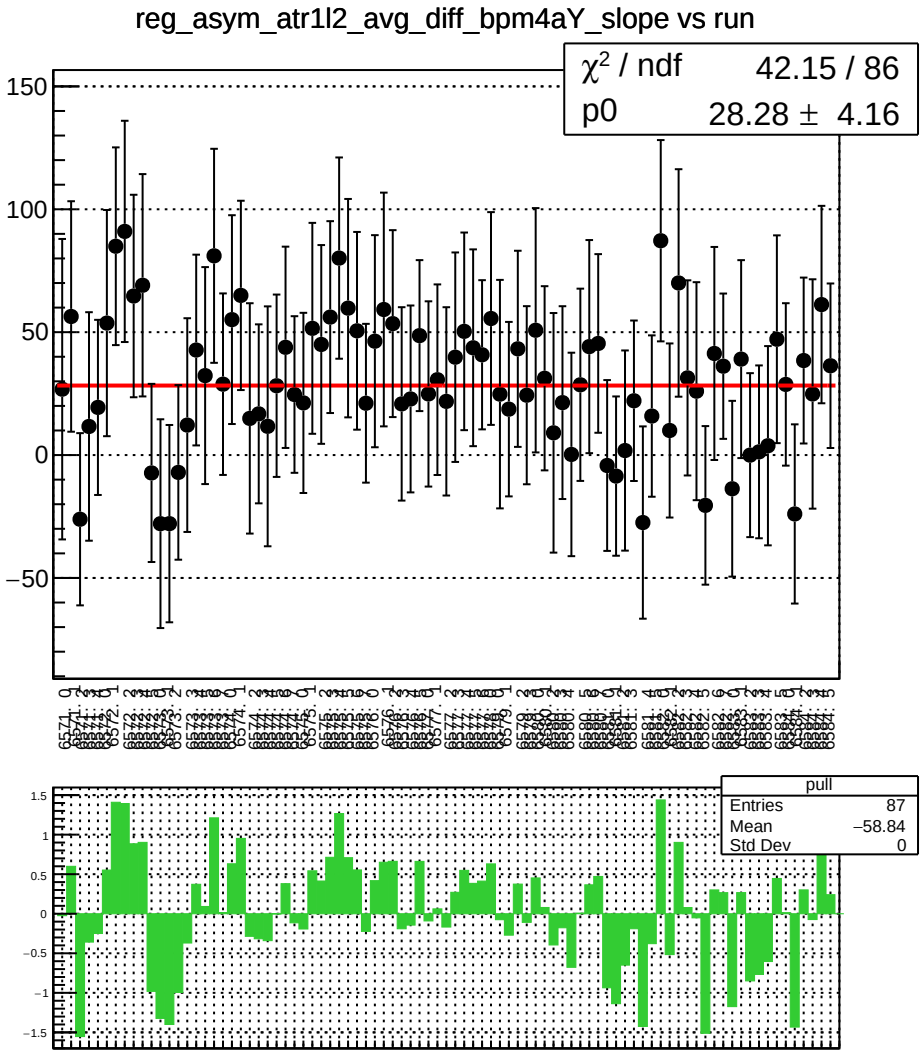

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.76 / 86
p0 −76.16 ± 3.584
pull
Entries 87
Mean 104.6
Std Dev 0

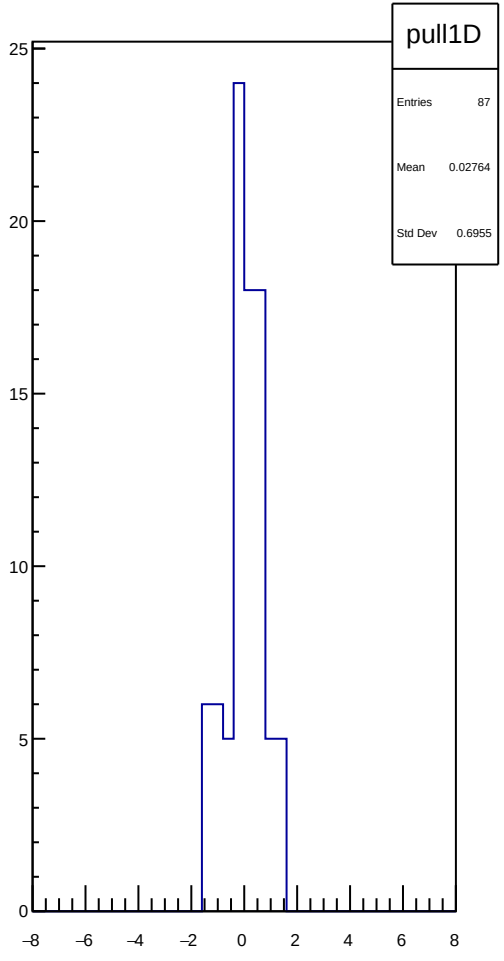

pull1D
Entries 87
Mean 0.03084
Std Dev 0.8754

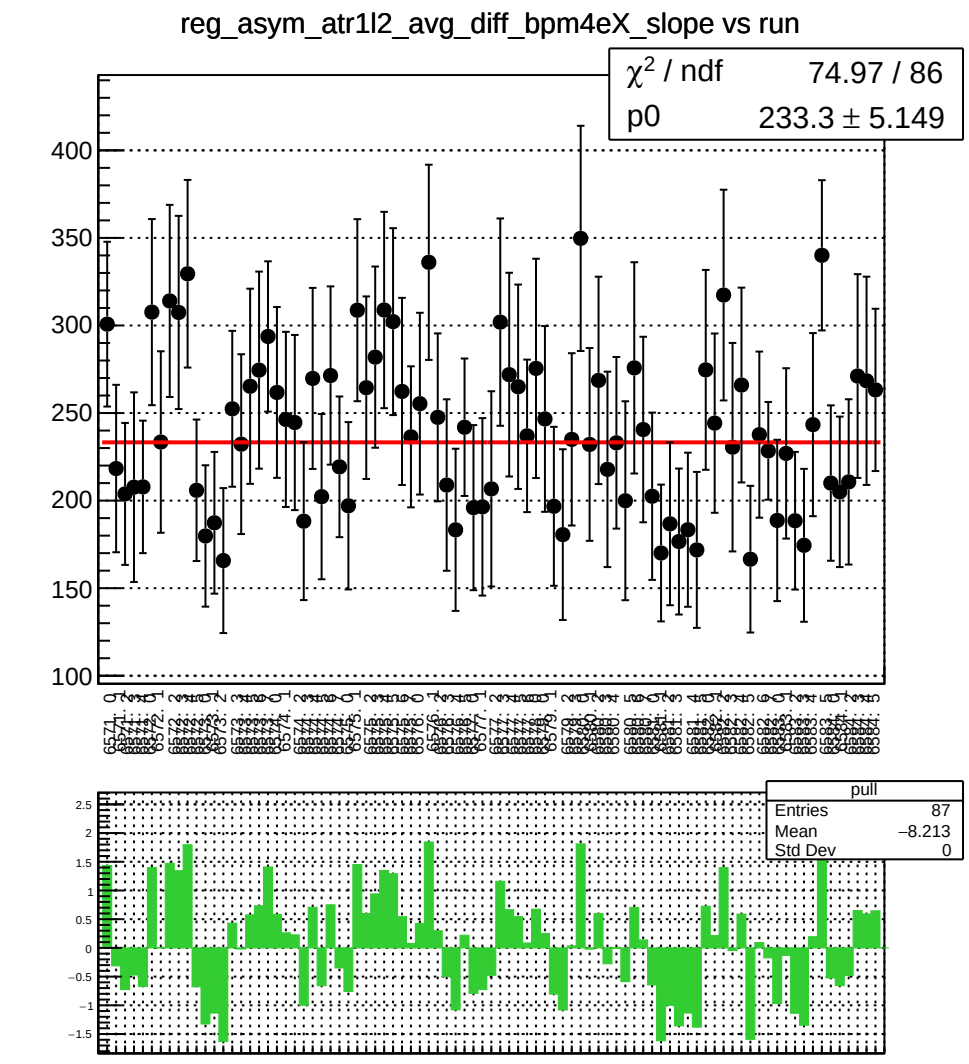

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 149.1 / 86
p0 120.2 ± 0.1643
124
122
120
118
116
114
112
110
pull
Entries 87
Mean 198.8
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 87
Mean 0.1858
Std Dev 0.878
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

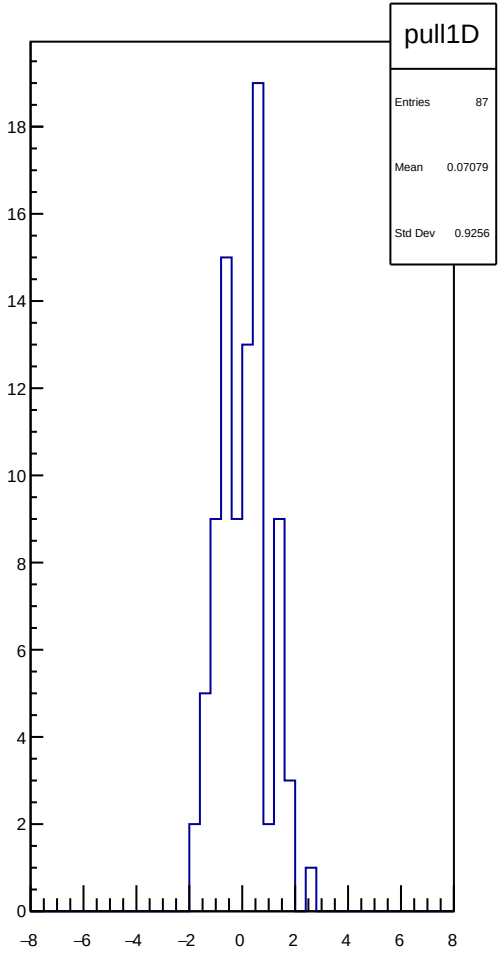

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 74.93 / 86
p0 −274.7 ± 5.007
pull
Entries 87
Mean −18.78
Std Dev 0

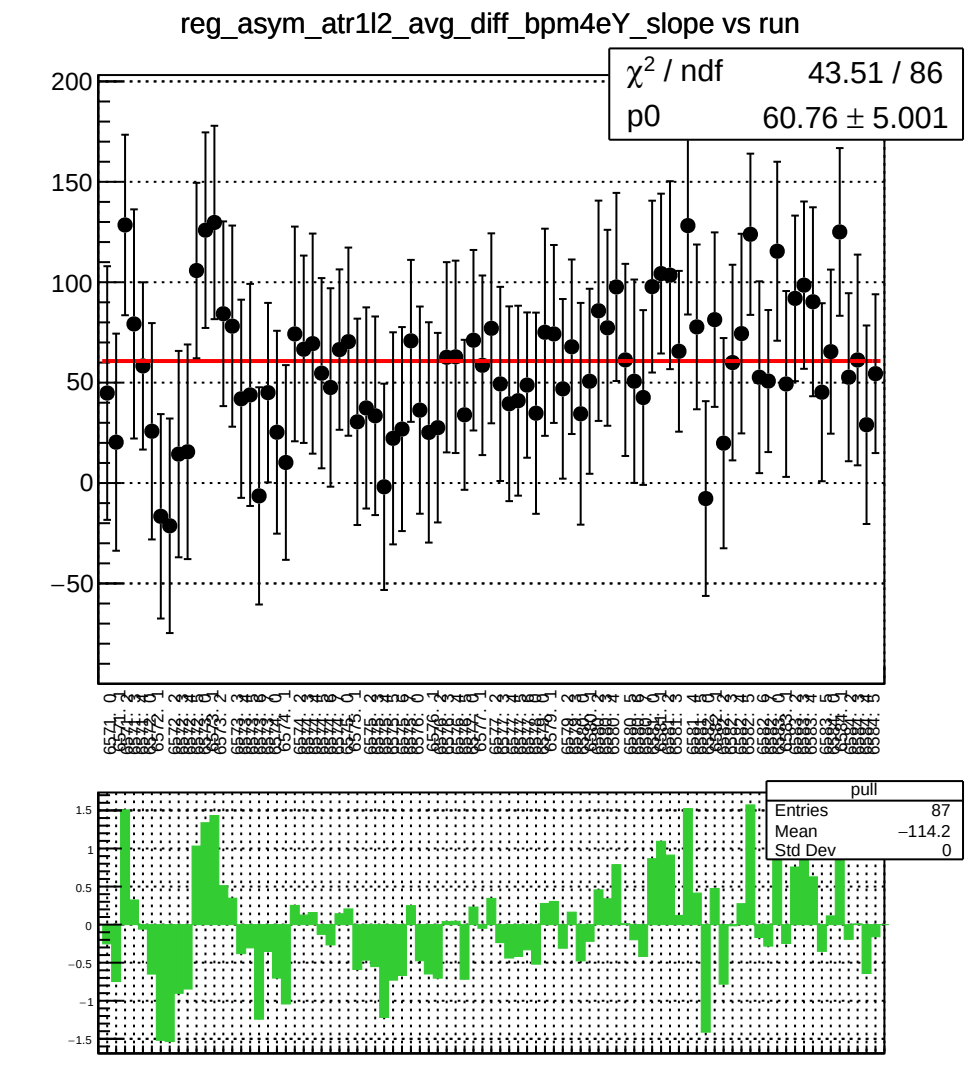

pull1D
Entries 87
Mean −0.06614
Std Dev 0.9257

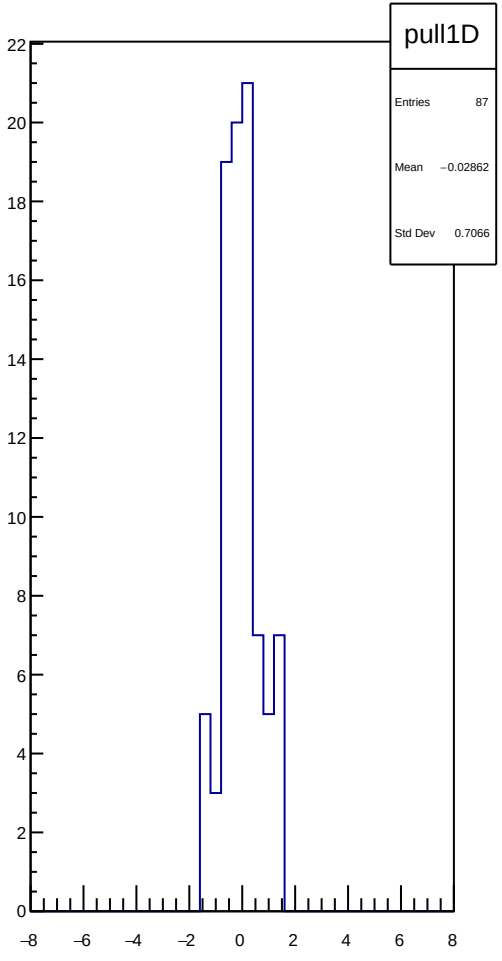

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.15 / 86
p0 28.28 ± 4.16
150
100
50
0
−50
pull
Entries 87
Mean −58.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

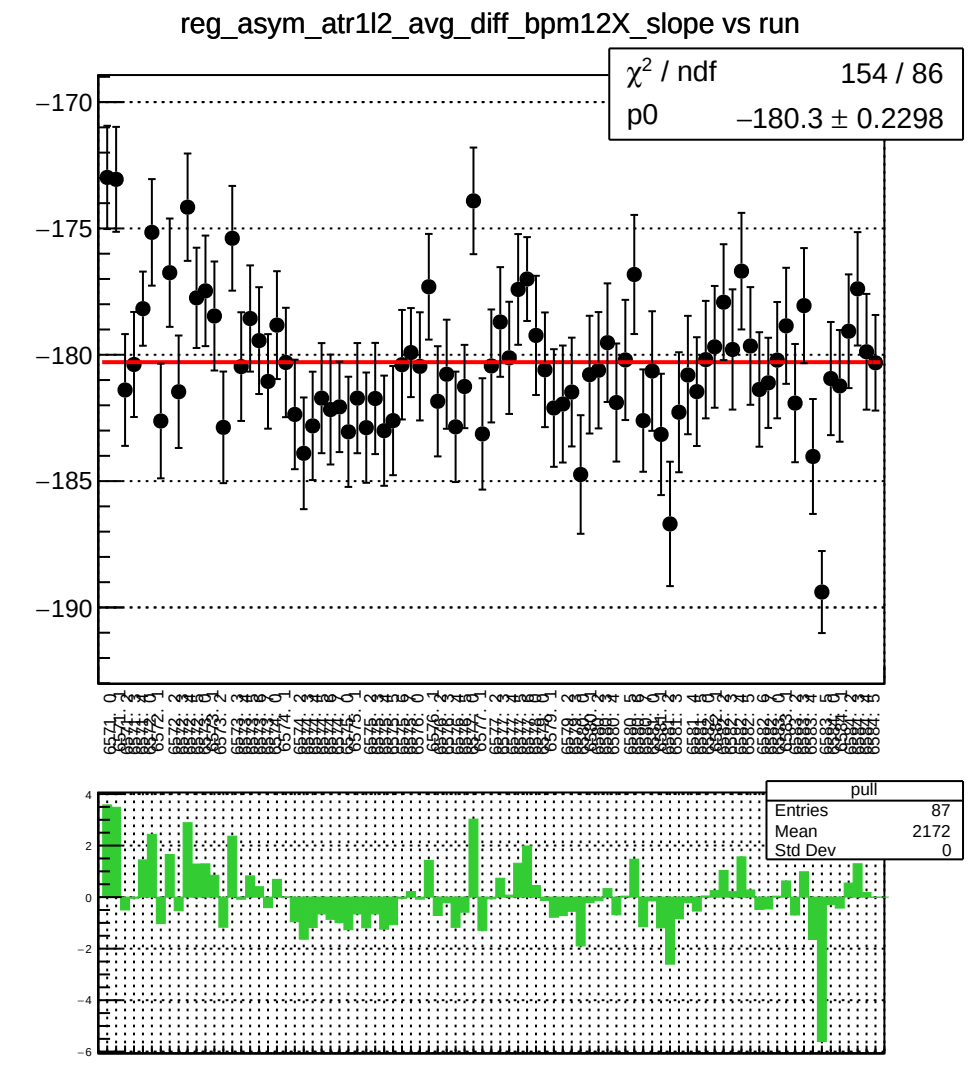

pull1D
Entries 87
Mean 0.02764
Std Dev 0.6955
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

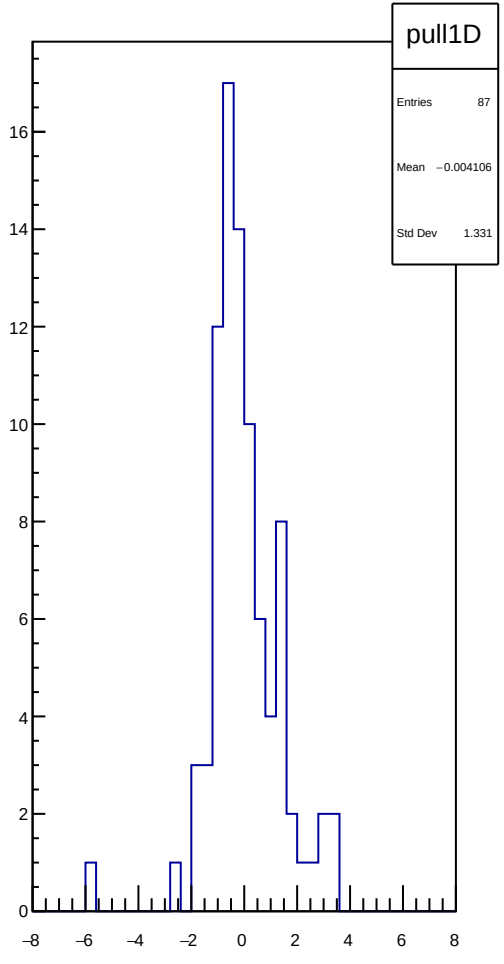

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.97 / 86
p0 233.3 ± 5.149
pull
Entries 87
Mean −8.213
Std Dev 0

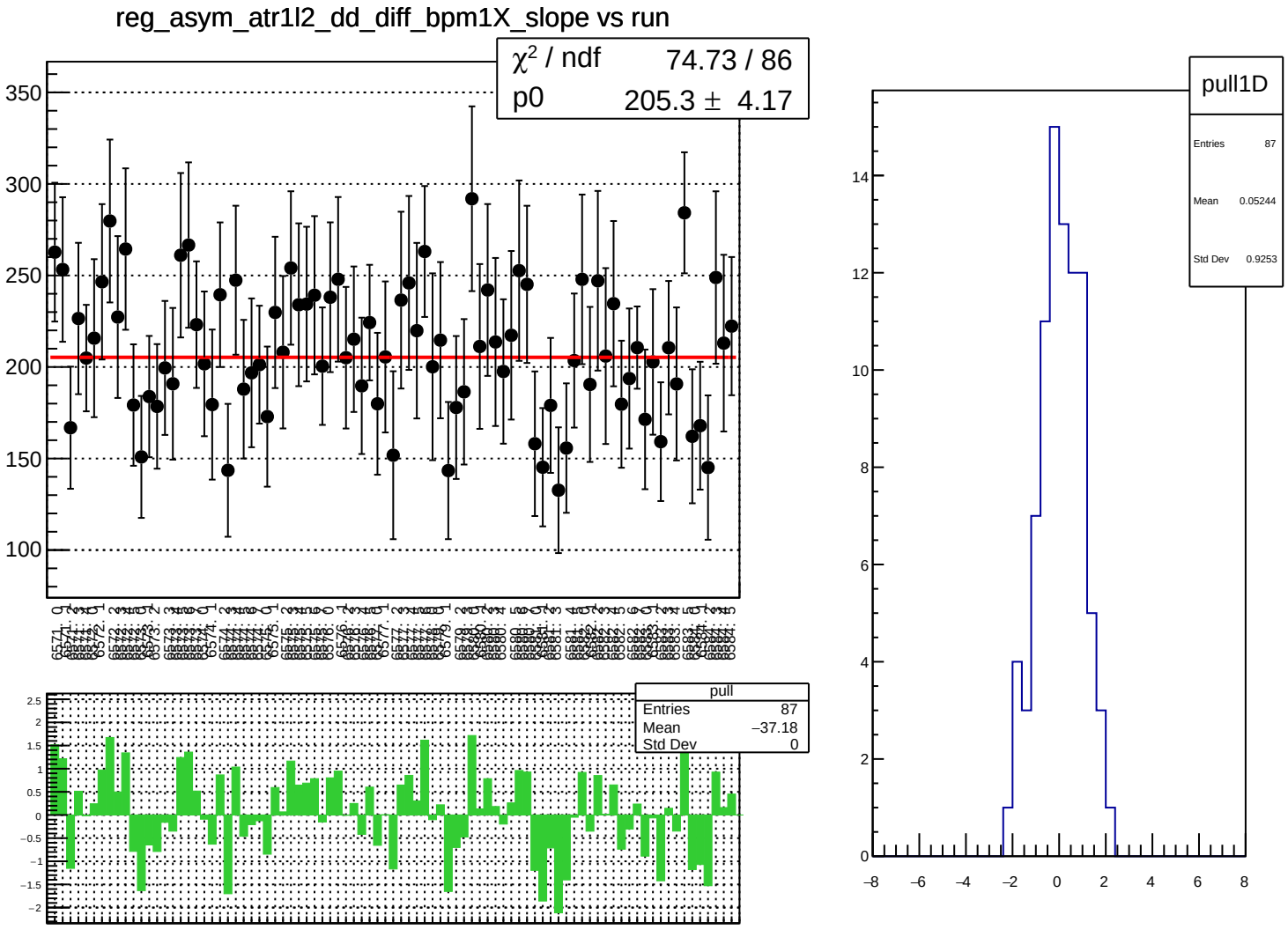

pull1D
Entries 87
Mean 0.07079
Std Dev 0.9256

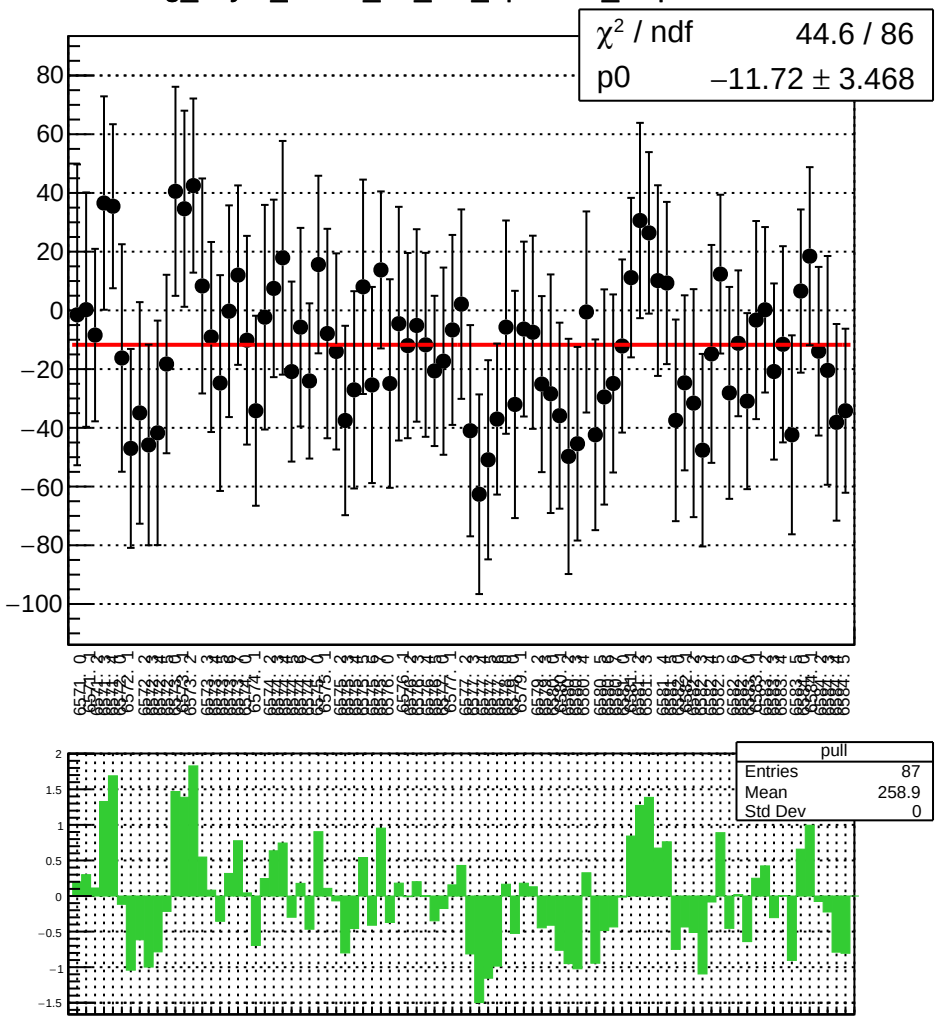

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.51 / 86
p0 60.76 ± 5.001
pull
Entries 87
Mean −114.2
Std Dev 0

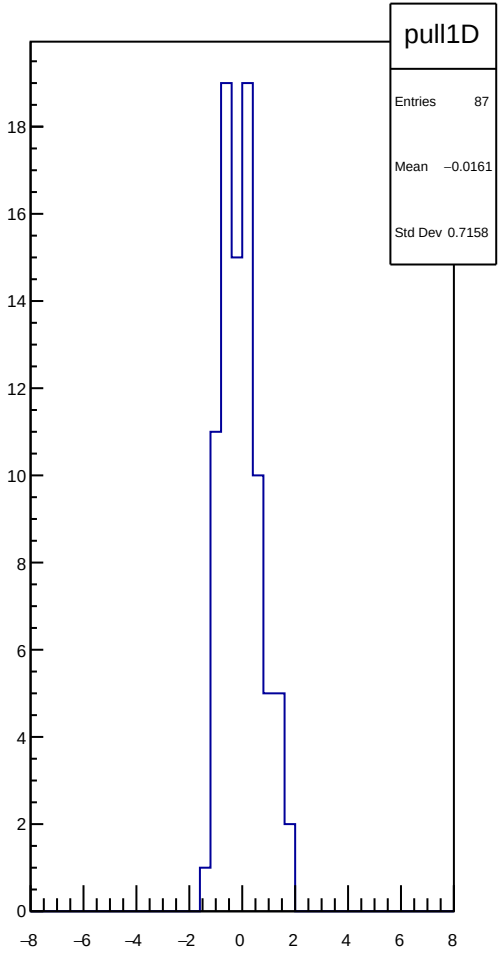

pull1D
Entries 87
Mean −0.02862
Std Dev 0.7066

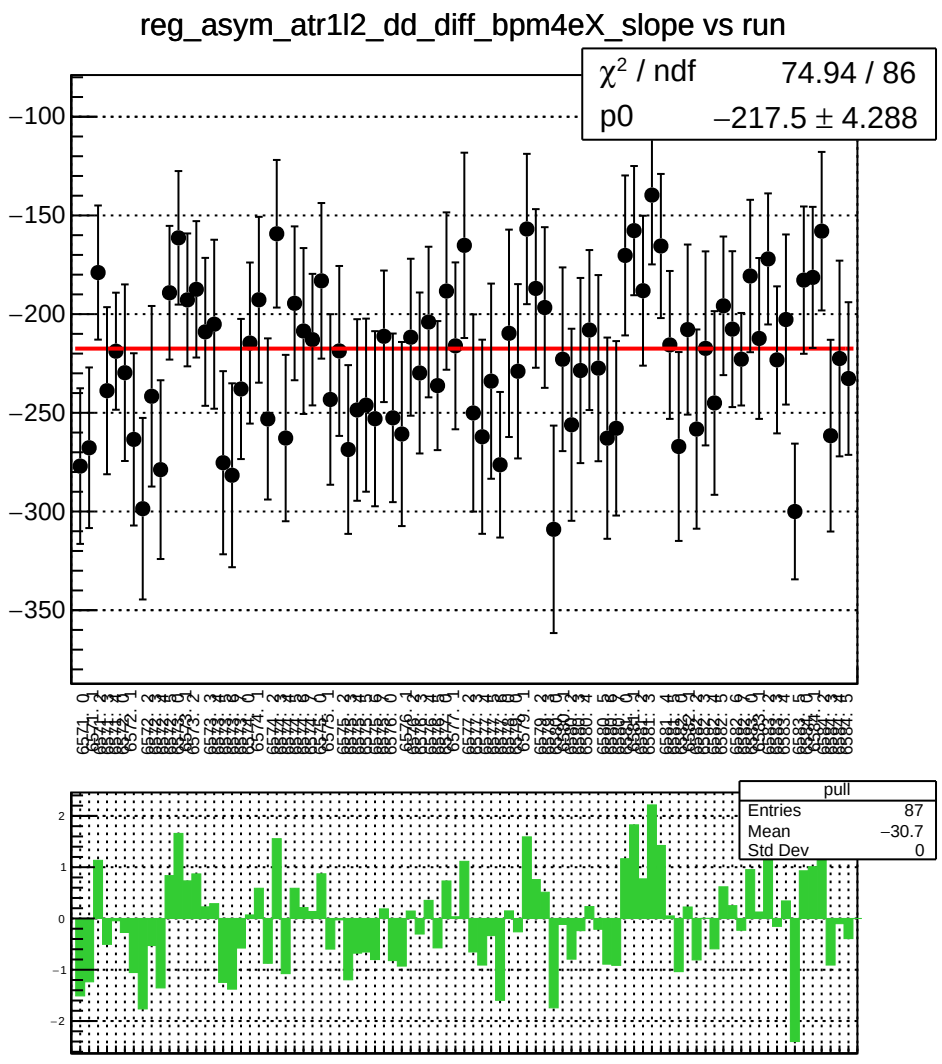

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 154 / 86
p0 −180.3 ± 0.2298
−170
−175
−180
−185
−190
pull
Entries 87
Mean 2172
Std Dev 0
4
2
0
−2
−4
−6

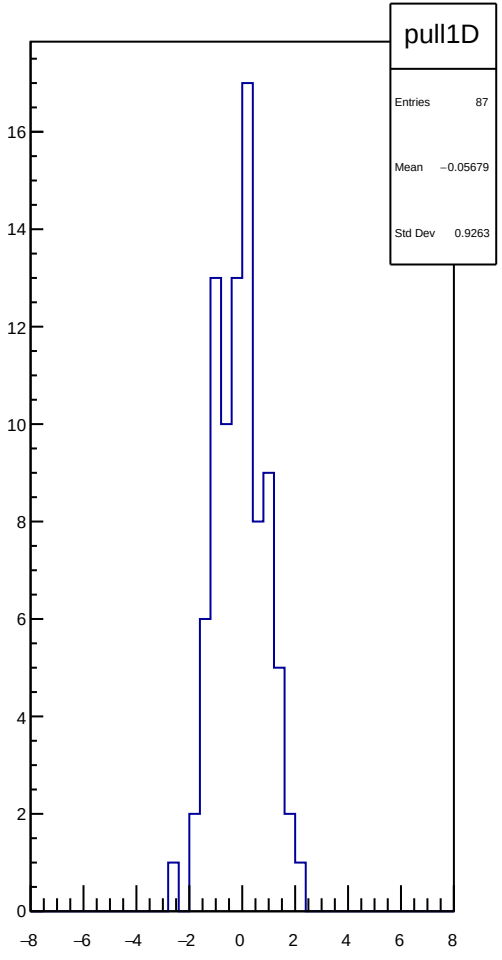

pull1D
Entries 87
Mean −0.004106
Std Dev 1.331
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

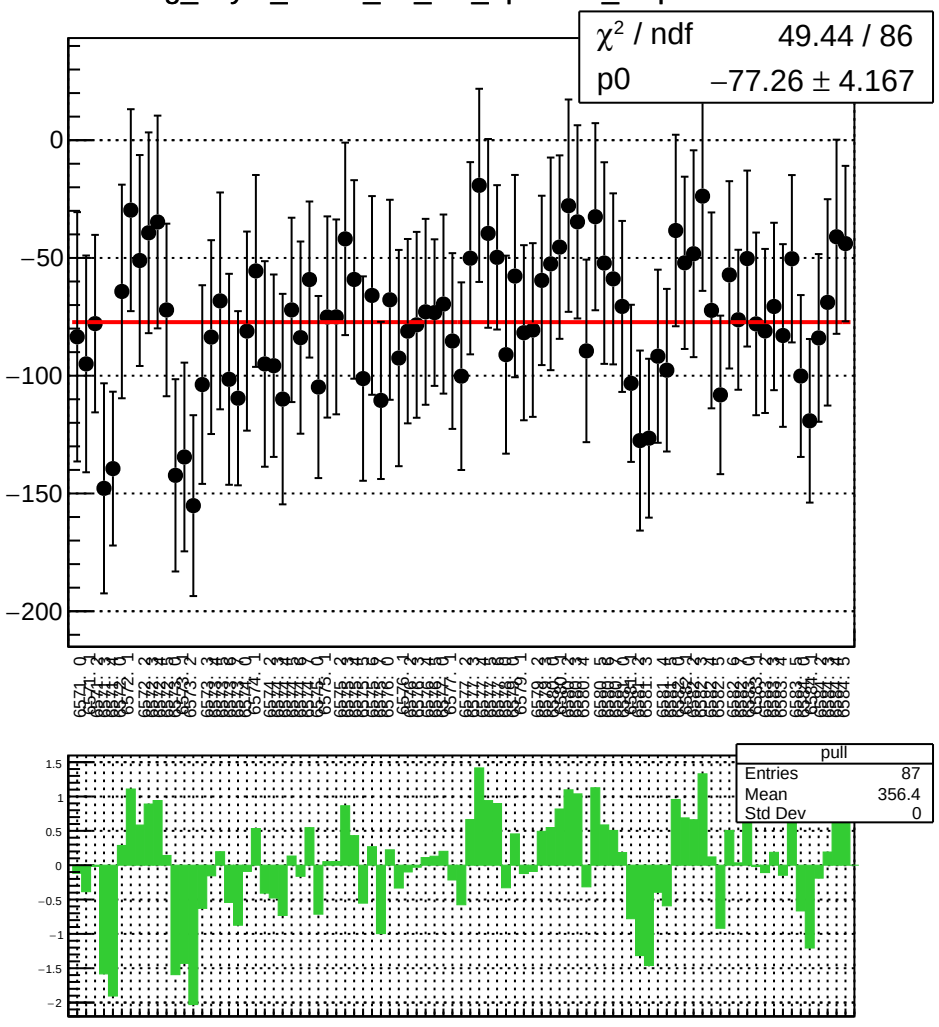

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 74.73 / 86
p0 205.3 ± 4.17
pull
Entries 87
Mean −37.18
Std Dev 0
pull1D
Entries 87
Mean 0.05244
Std Dev 0.9253

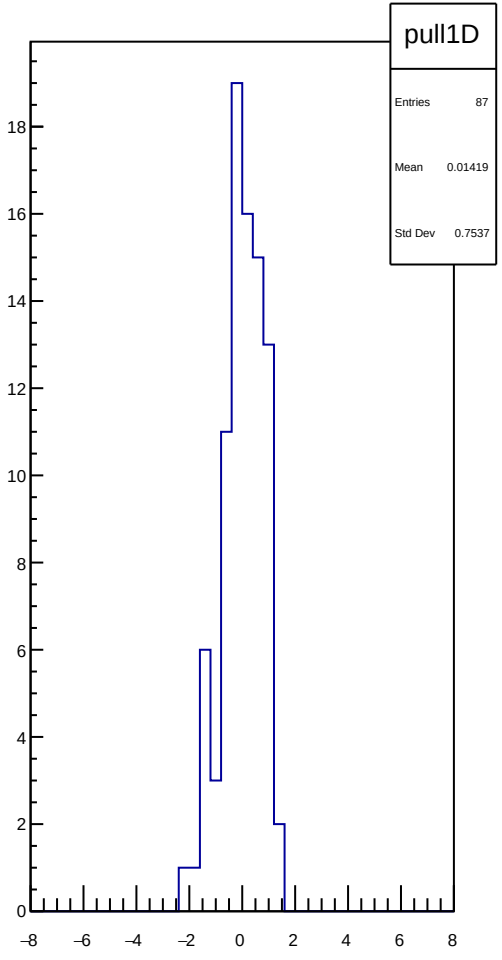

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.6 / 86
p0 −11.72 ± 3.468
pull
Entries 87
Mean 258.9
Std Dev 0

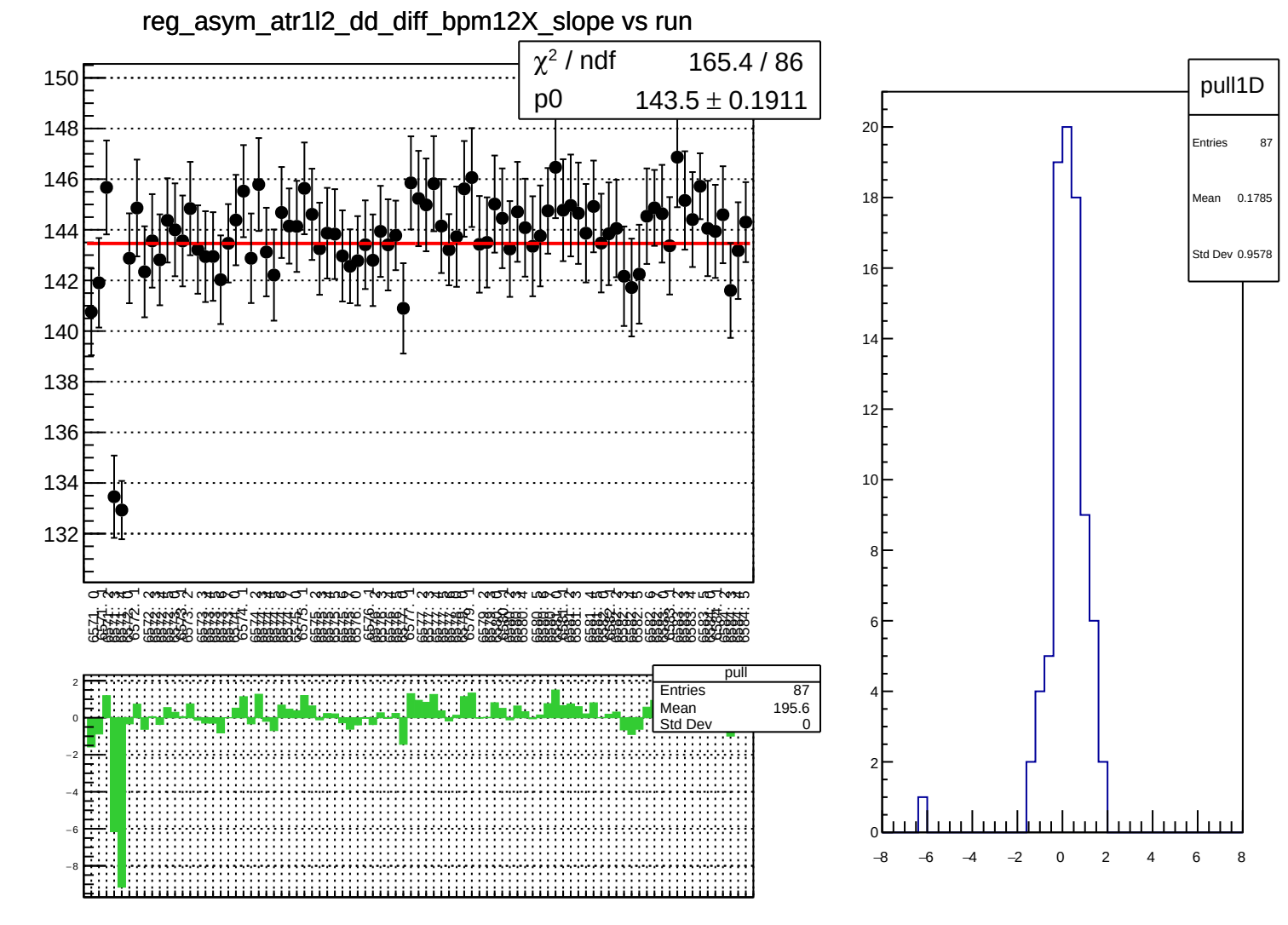

pull1D
Entries 87
Mean −0.0161
Std Dev 0.7158

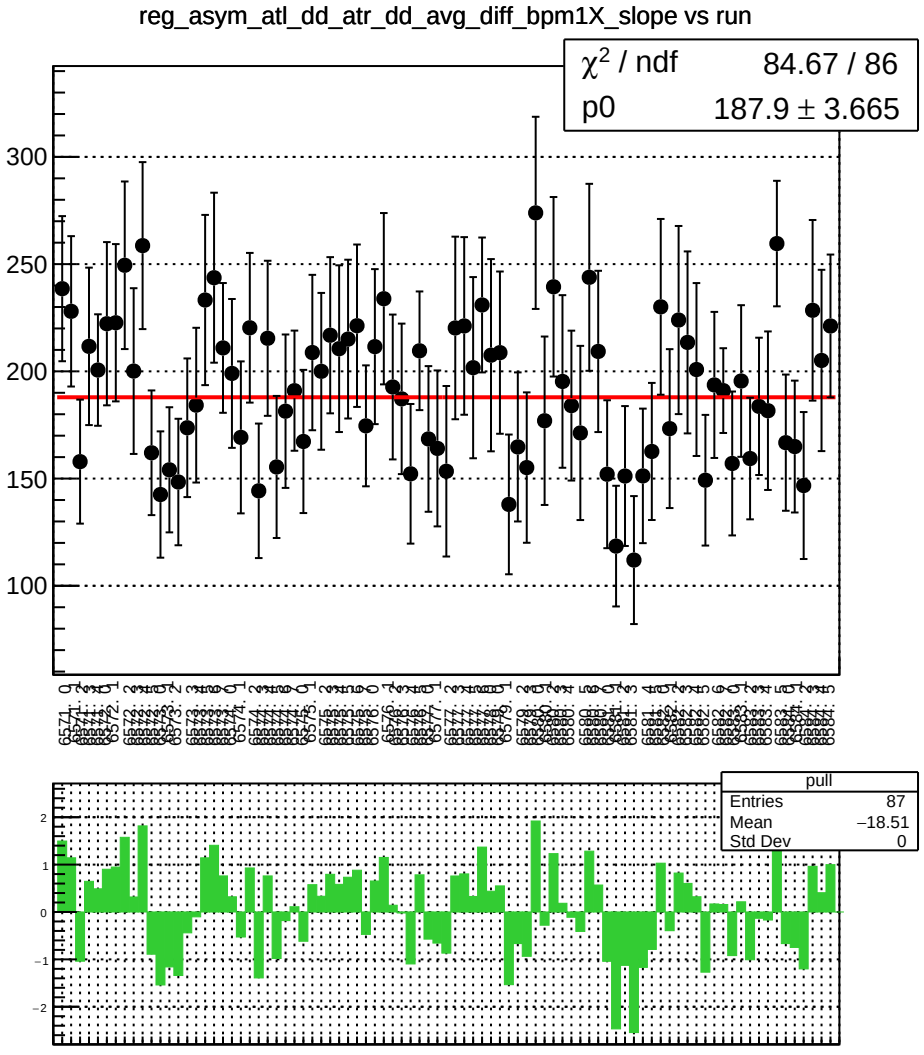

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.94 / 86
p0 −217.5 ± 4.288
pull
Entries 87
Mean −30.7
Std Dev 0

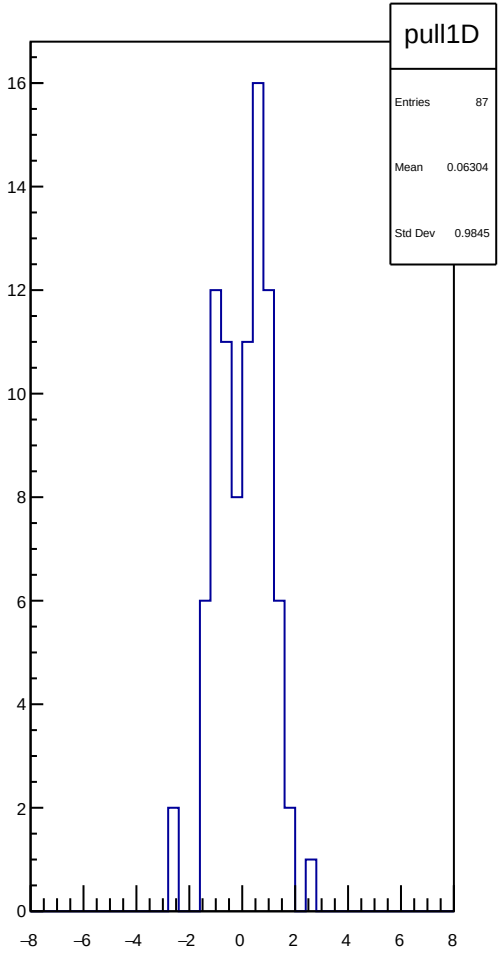

pull1D
Entries 87
Mean −0.05679
Std Dev 0.9263

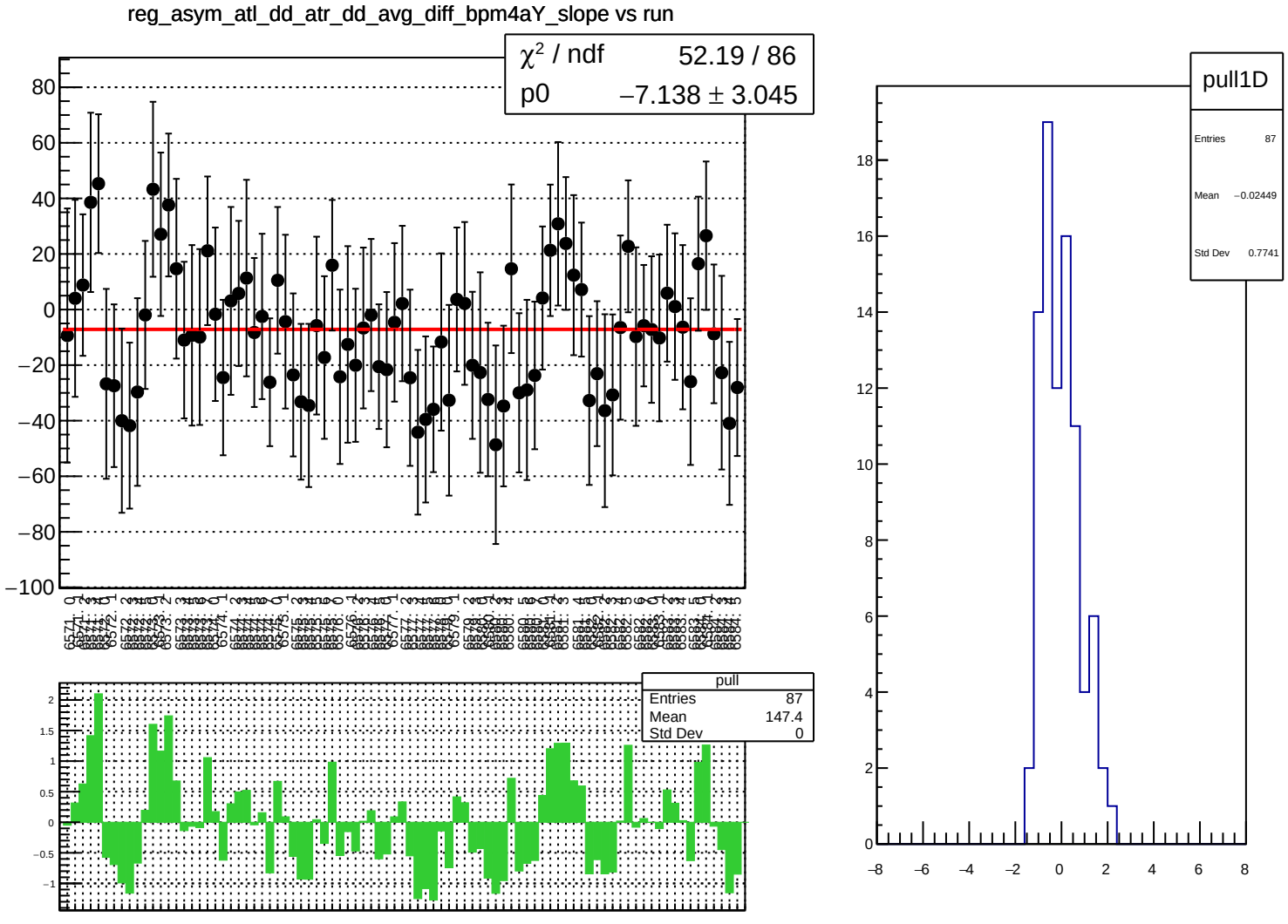

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.44 / 86
p0 −77.26 ± 4.167
pull
Entries 87
Mean 356.4
Std Dev 0

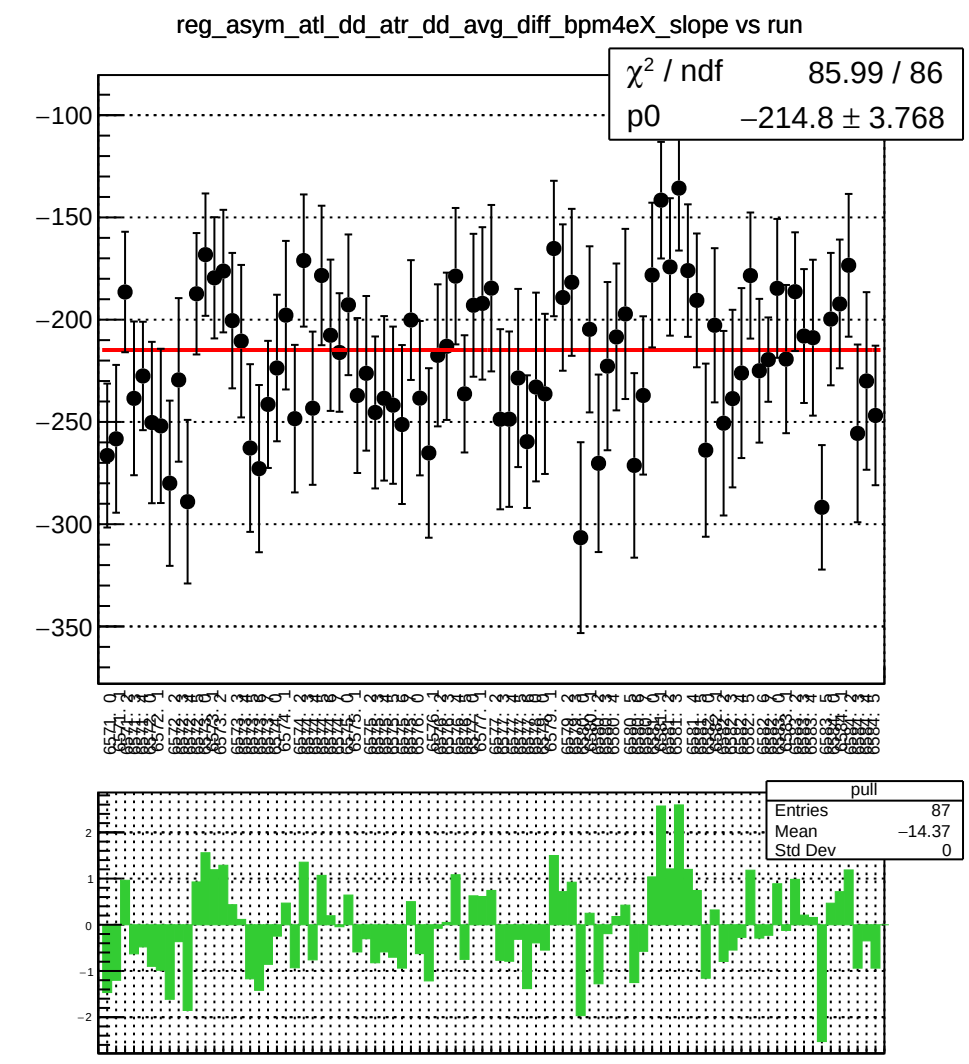

pull1D
Entries 87
Mean 0.01419
Std Dev 0.7537

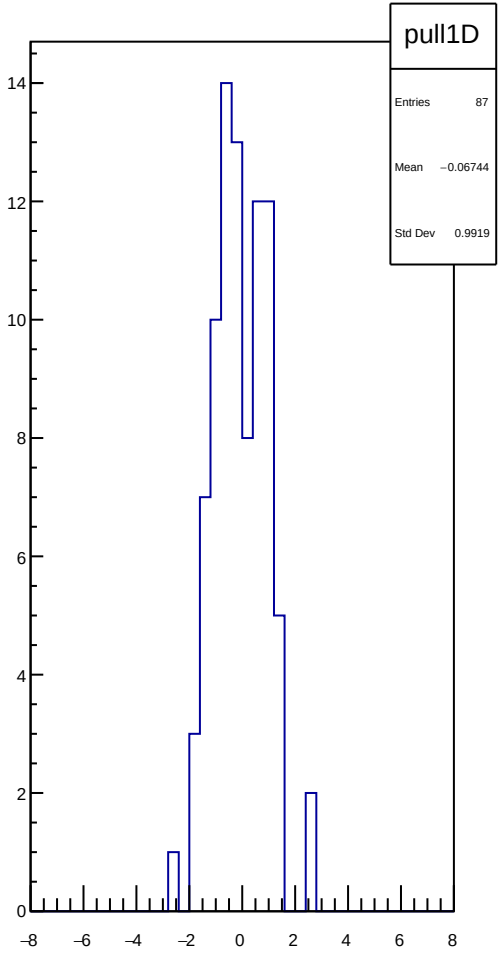

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 165.4 / 86
p0 143.5 ± 0.1911
150
148
146
144
142
140
138
136
134
132
pull
Entries 87
Mean 195.6
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 87
Mean 0.1785
Std Dev 0.9578
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

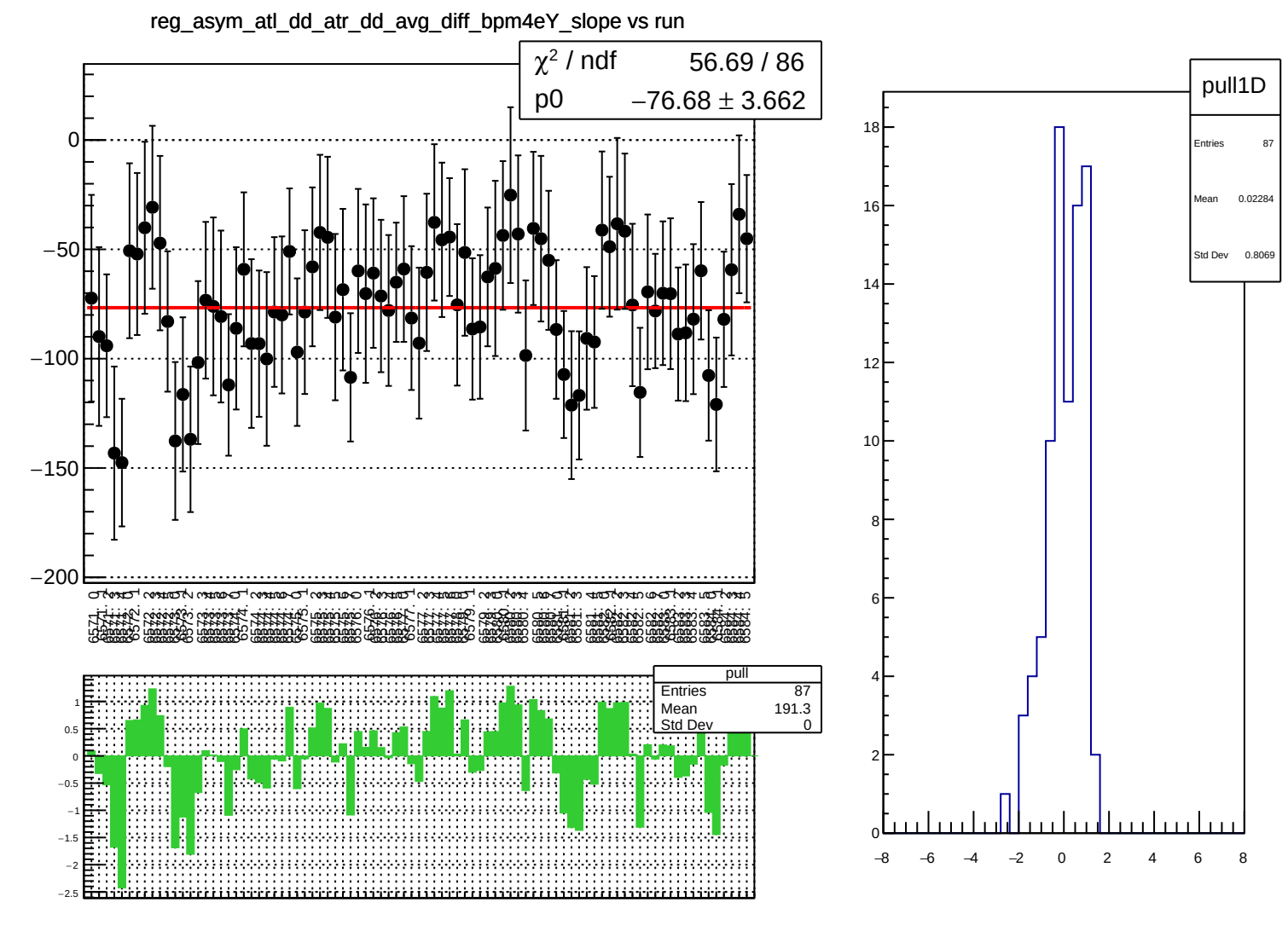

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 84.67 / 86
p0 187.9 ± 3.665
300
250
200
150
100
pull
Entries 87
Mean −18.51
Std Dev 0
2
1
0
−1
−2

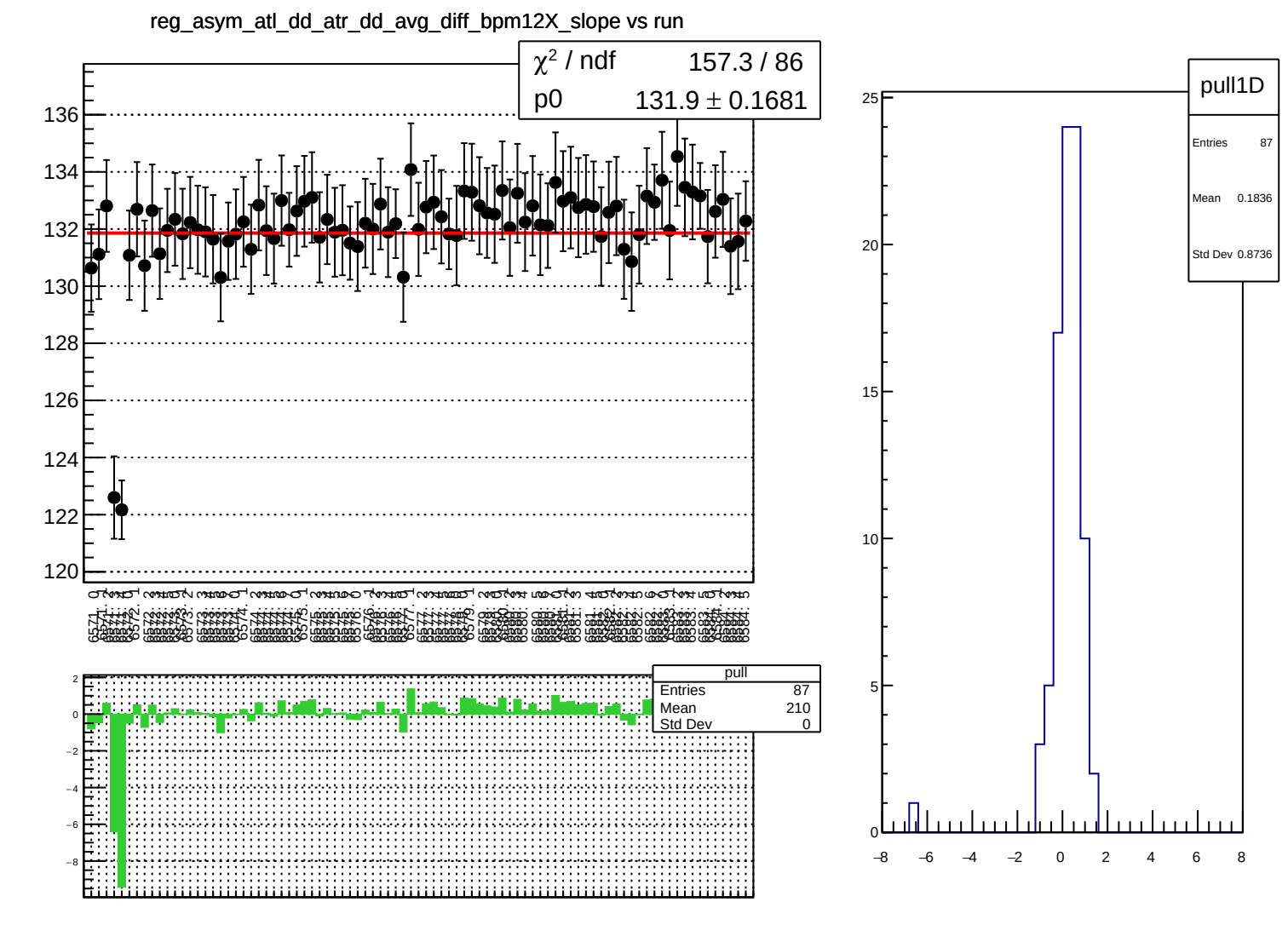

pull1D
Entries 87
Mean 0.06304
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

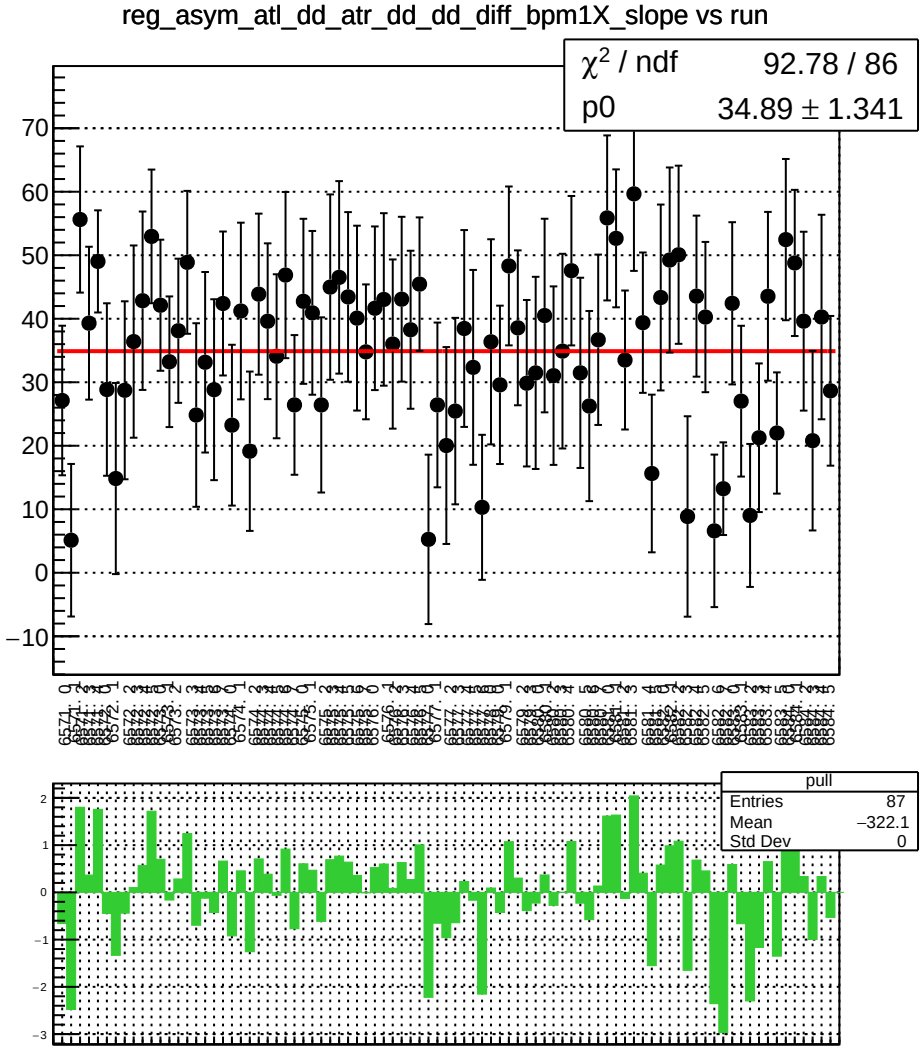

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.19 / 86
p0 −7.138 ± 3.045
pull
Entries 87
Mean 147.4
Std Dev 0
pull1D
Entries 87
Mean −0.02449
Std Dev 0.7741

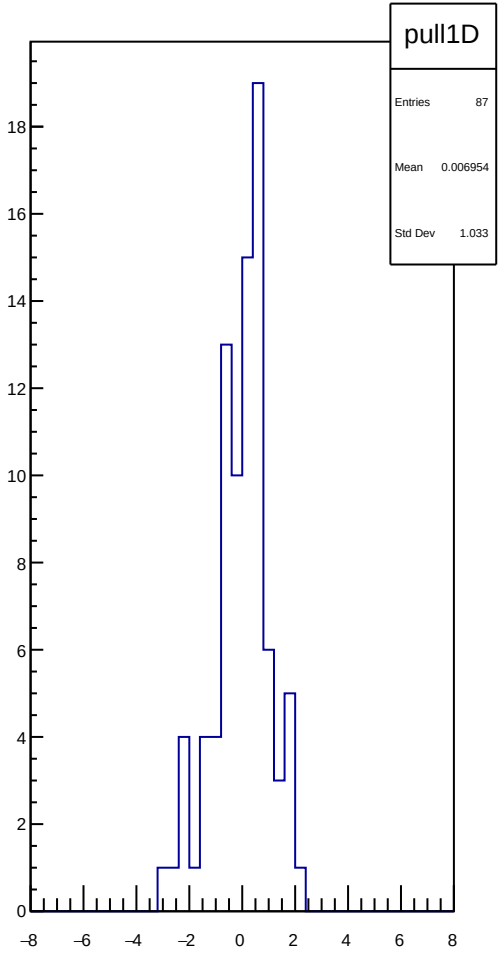

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.99 / 86
p0 −214.8 ± 3.768
pull
Entries 87
Mean −14.37
Std Dev 0

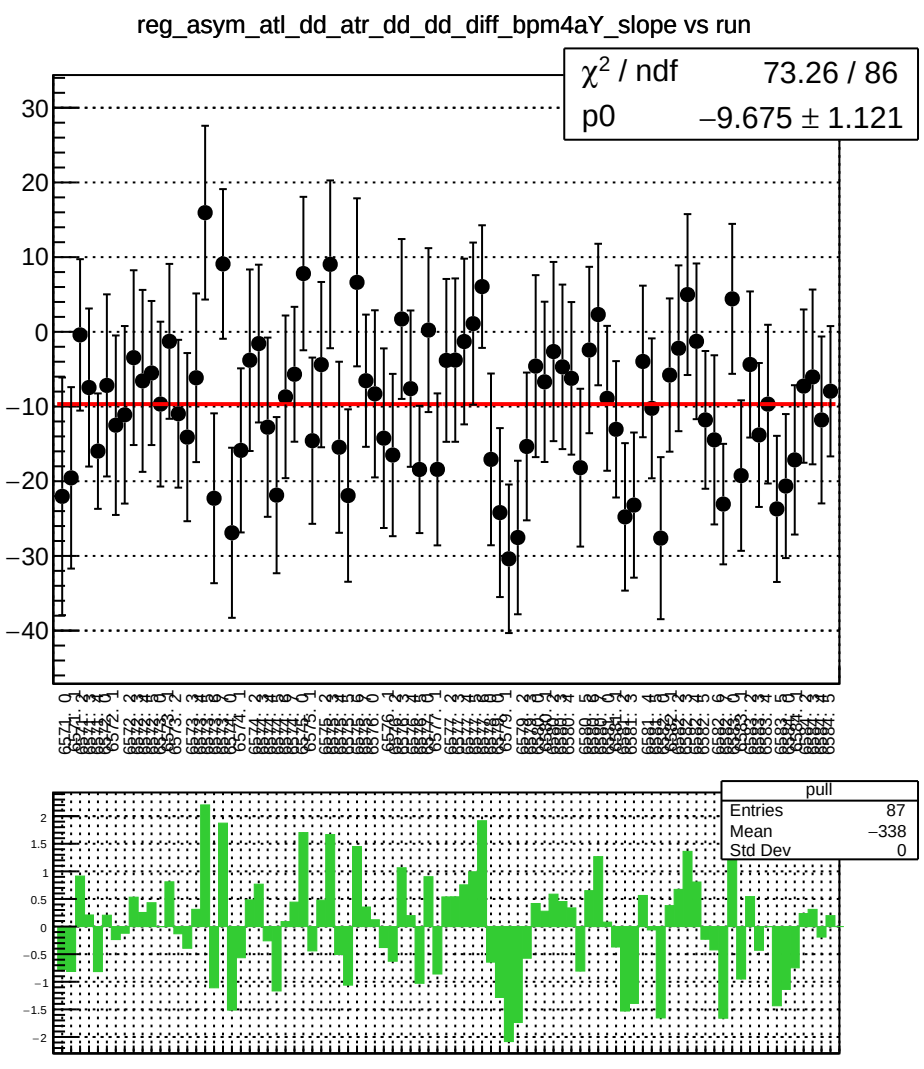

pull1D
Entries 87
Mean −0.06744
Std Dev 0.9919

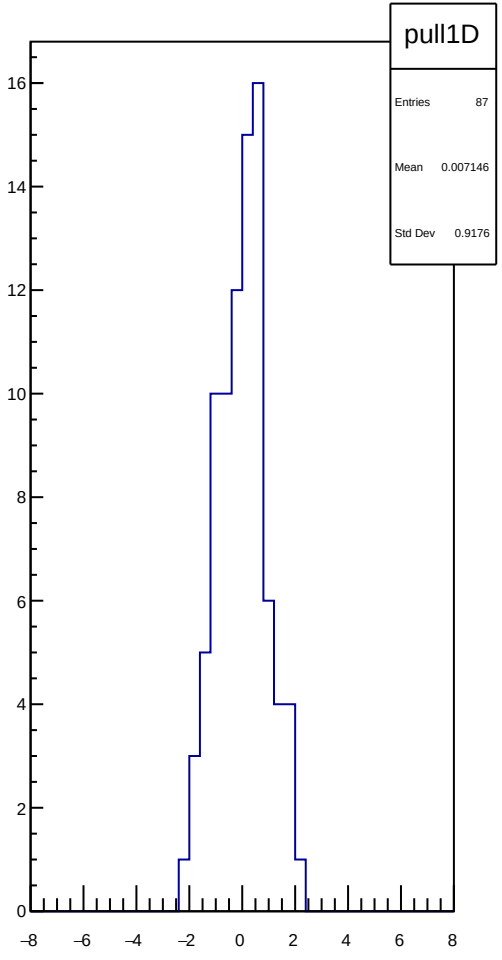

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.69 / 86
p0 −76.68 ± 3.662
pull
Entries 87
Mean 191.3
Std Dev 0
pull1D
Entries 87
Mean 0.02284
Std Dev 0.8069

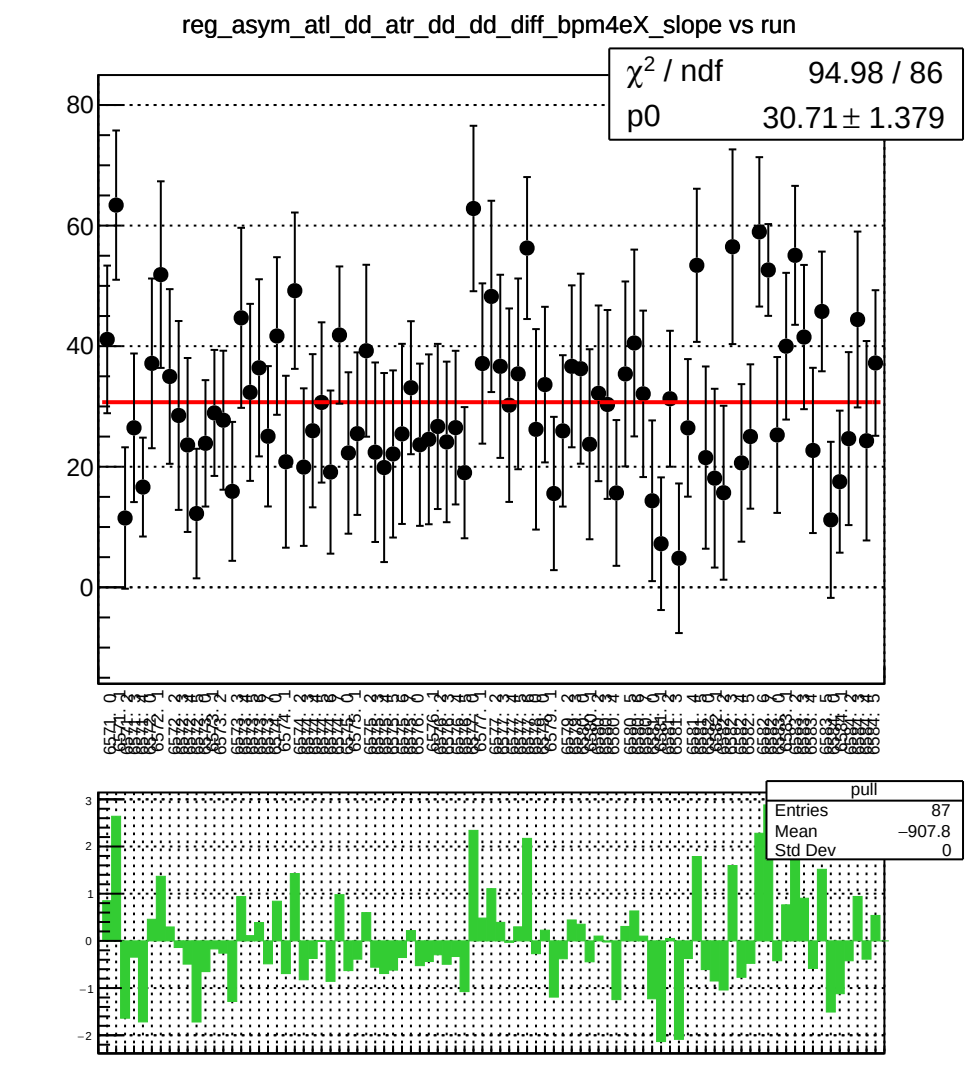

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 157.3 / 86
p0 131.9 ± 0.1681
pull
Entries 87
Mean 210
Std Dev 0
pull1D
Entries 87
Mean 0.1836
Std Dev 0.8736

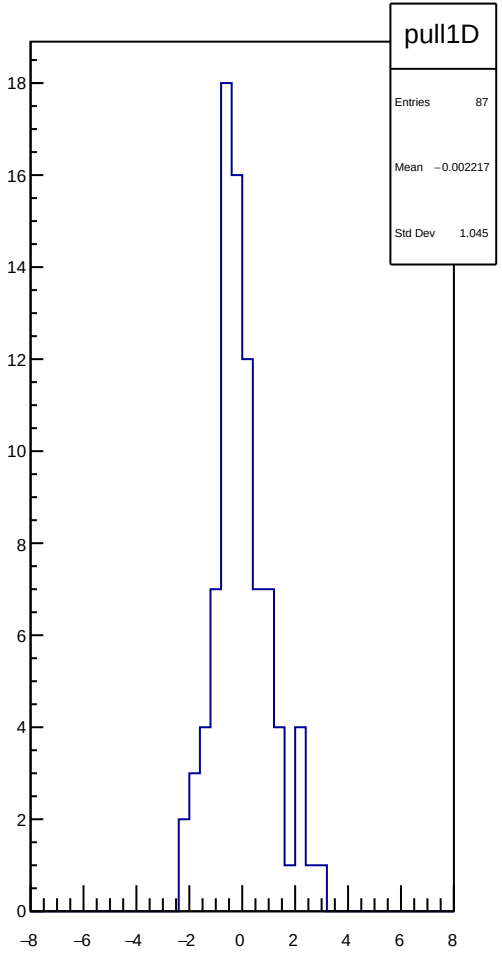

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 92.78 / 86
p0 34.89 ± 1.341
pull
Entries 87
Mean −322.1
Std Dev 0

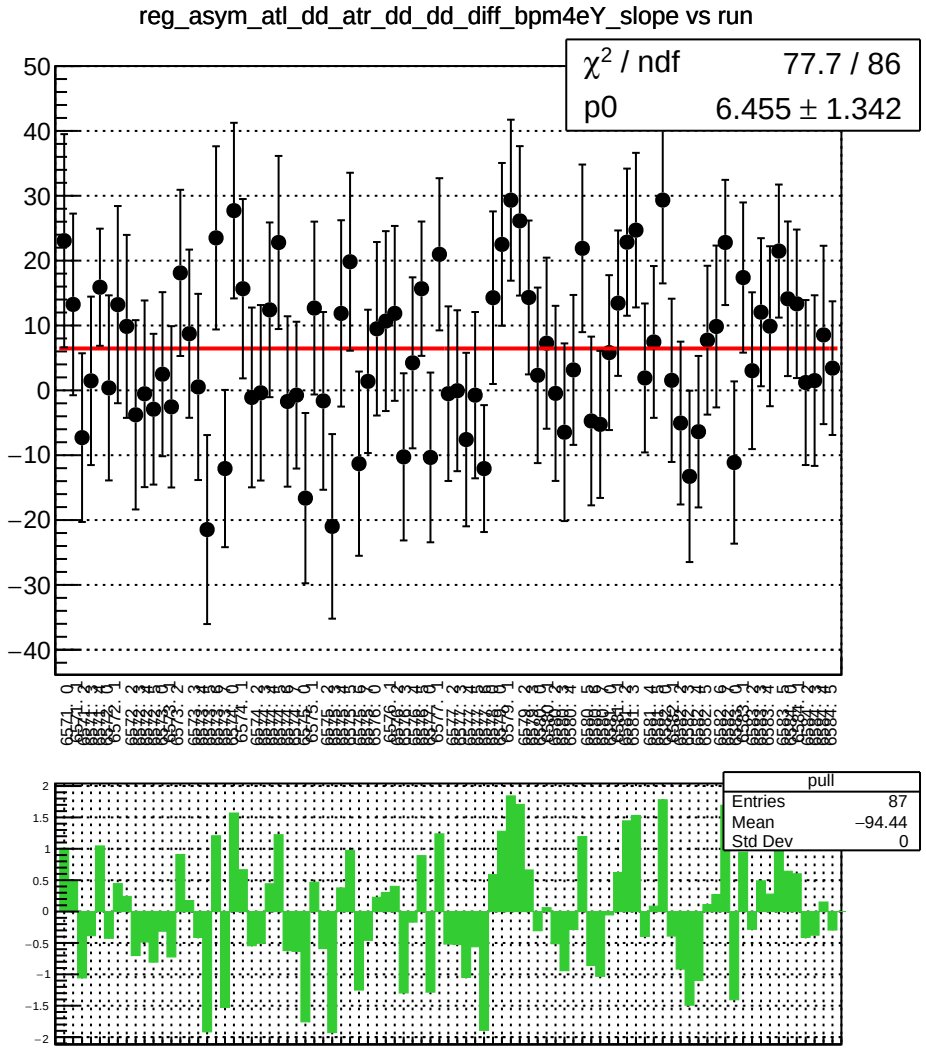

pull1D
Entries 87
Mean 0.006954
Std Dev 1.033

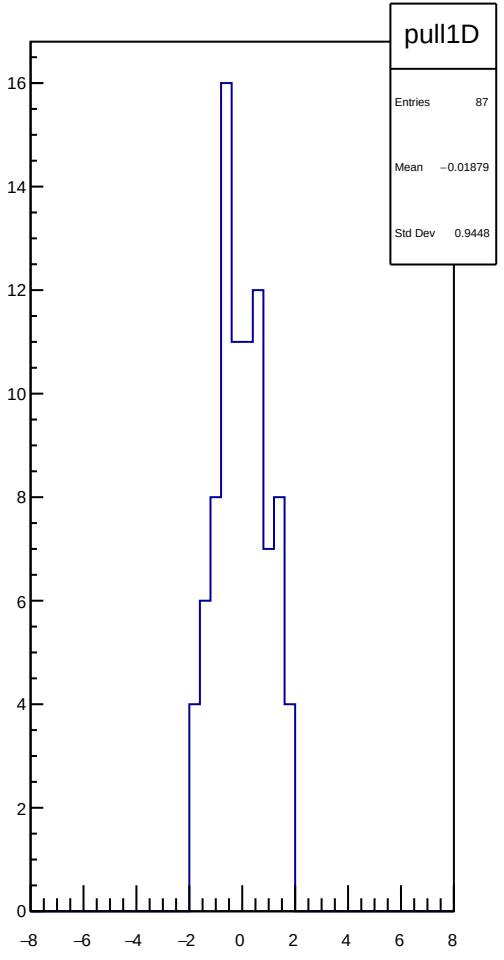

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.26 / 86
p0 −9.675 ± 1.121
pull
Entries 87
Mean −338
Std Dev 0

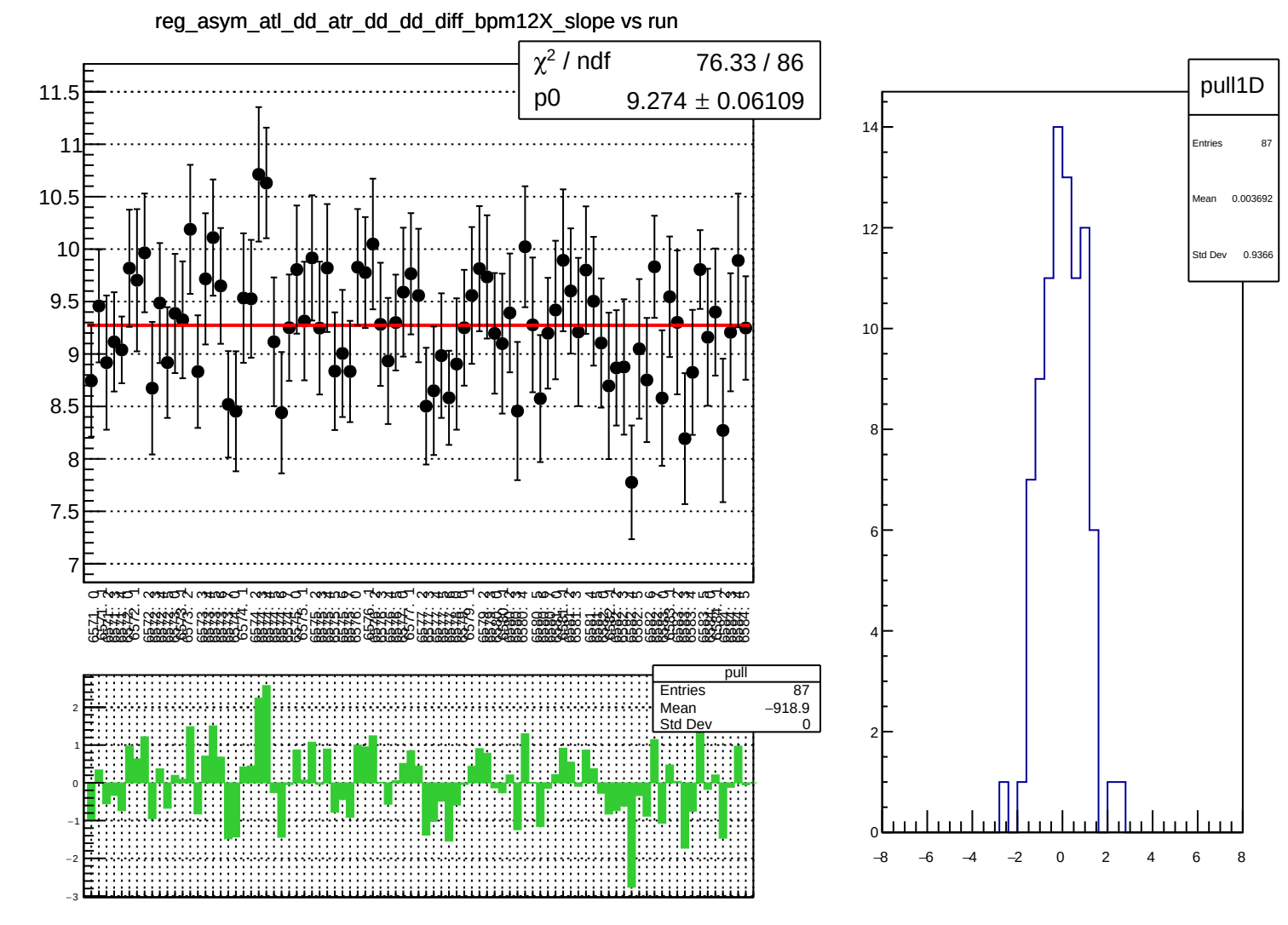

pull1D
Entries 87
Mean 0.007146
Std Dev 0.9176

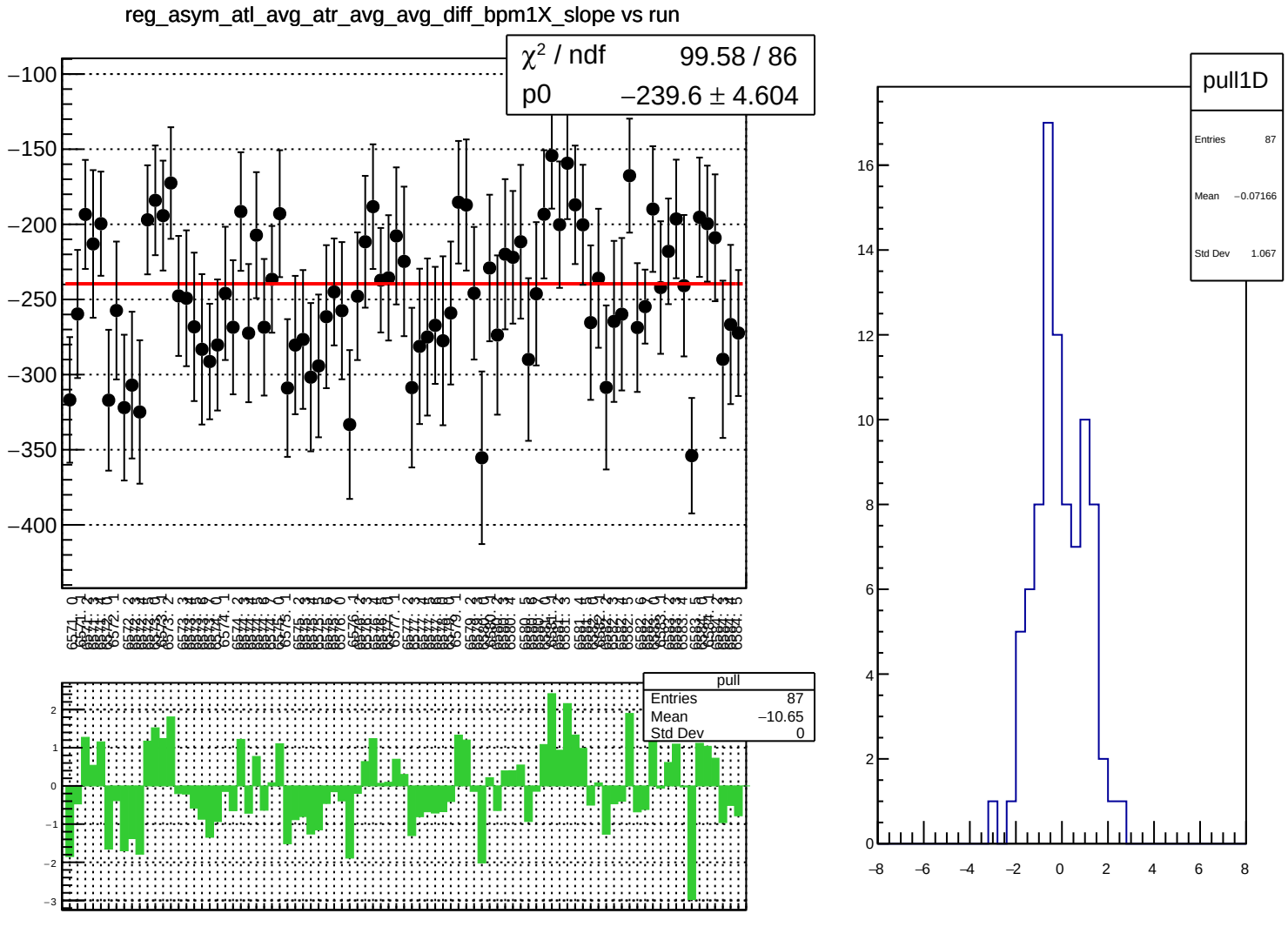

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 94.98 / 86
p0 30.71 ± 1.379
pull
Entries 87
Mean −907.8
Std Dev 0

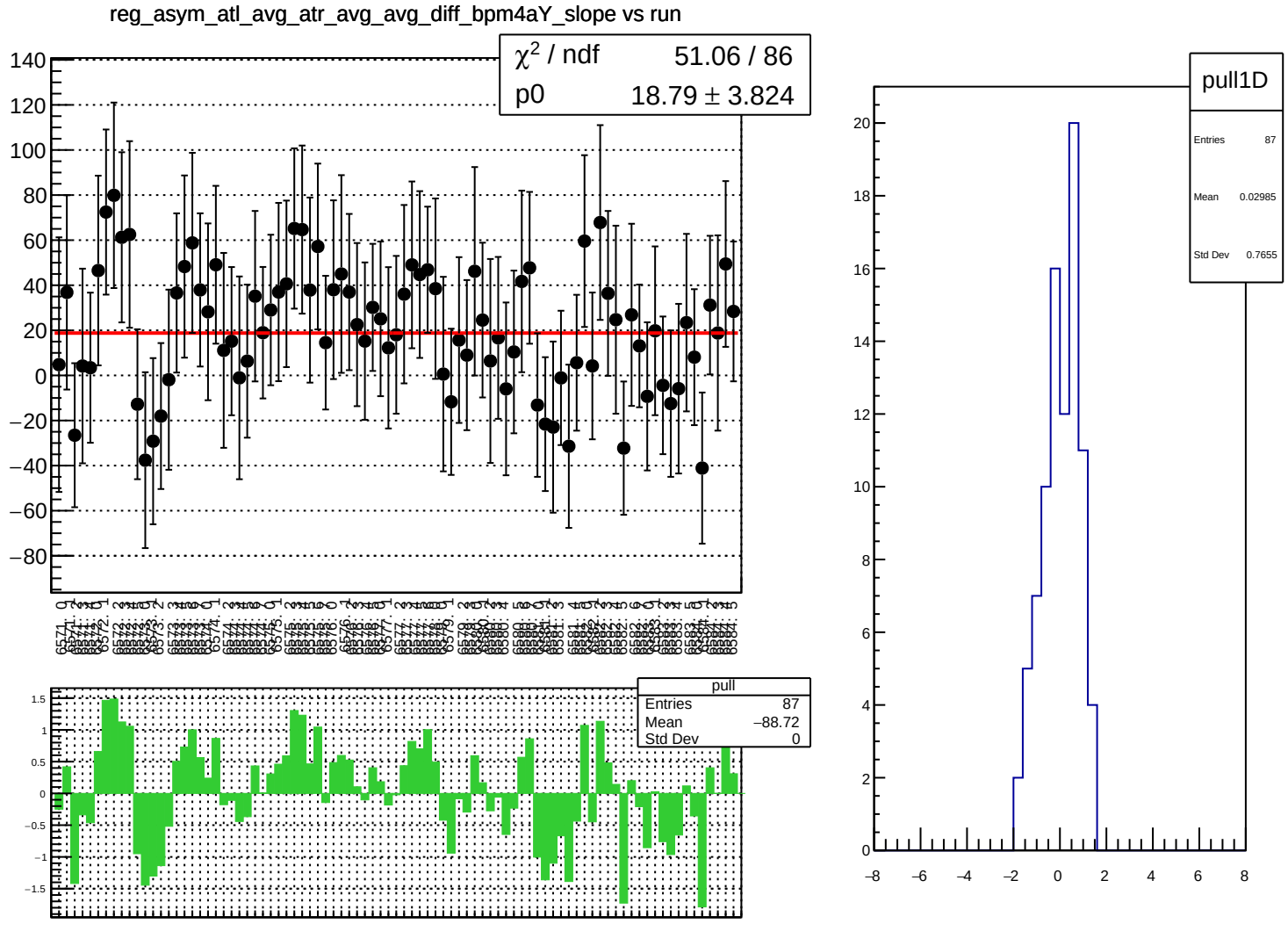

pull1D
Entries 87
Mean −0.002217
Std Dev 1.045

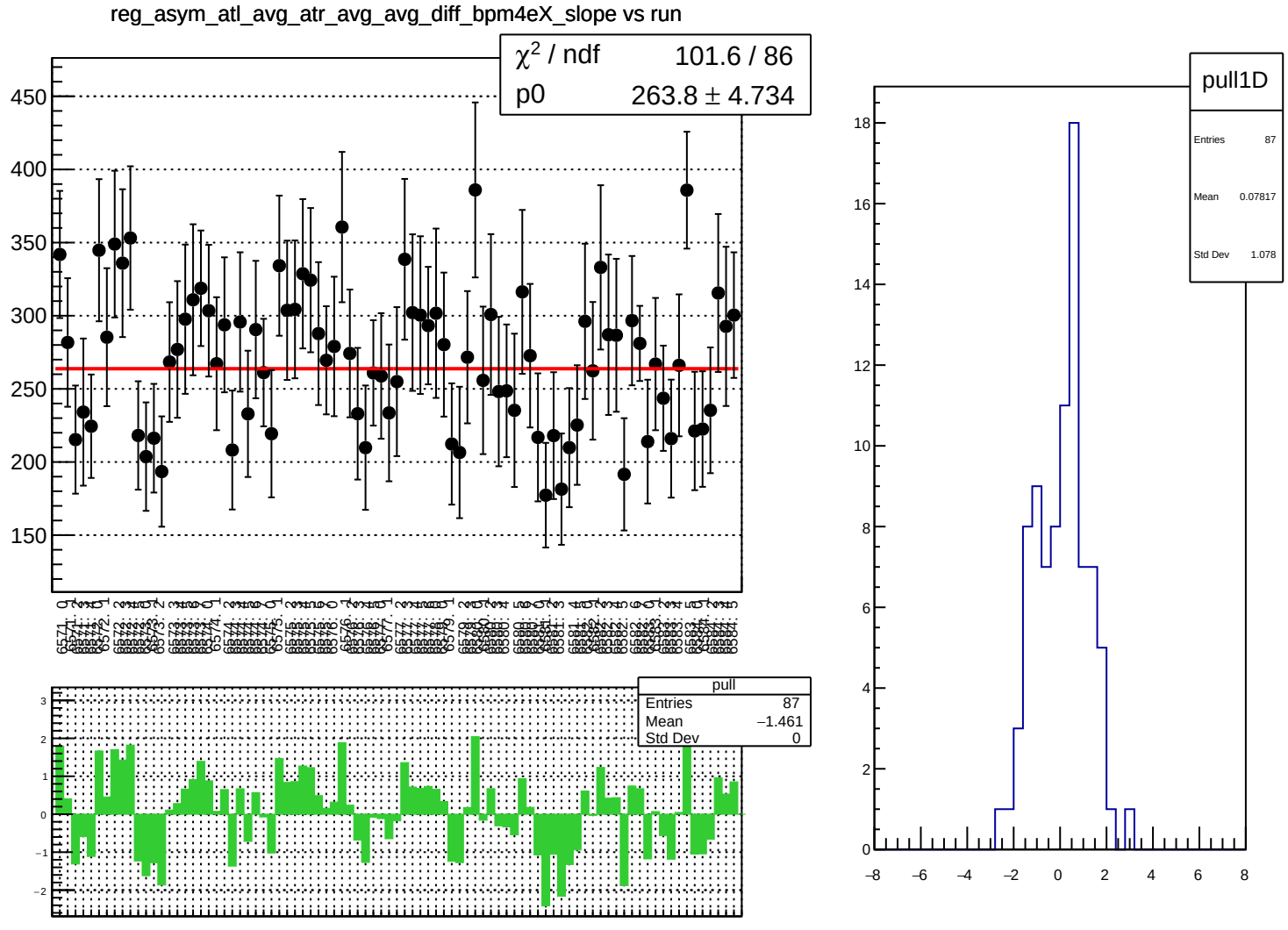

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.7 / 86
p0 6.455 ± 1.342
pull
Entries 87
Mean −94.44
Std Dev 0

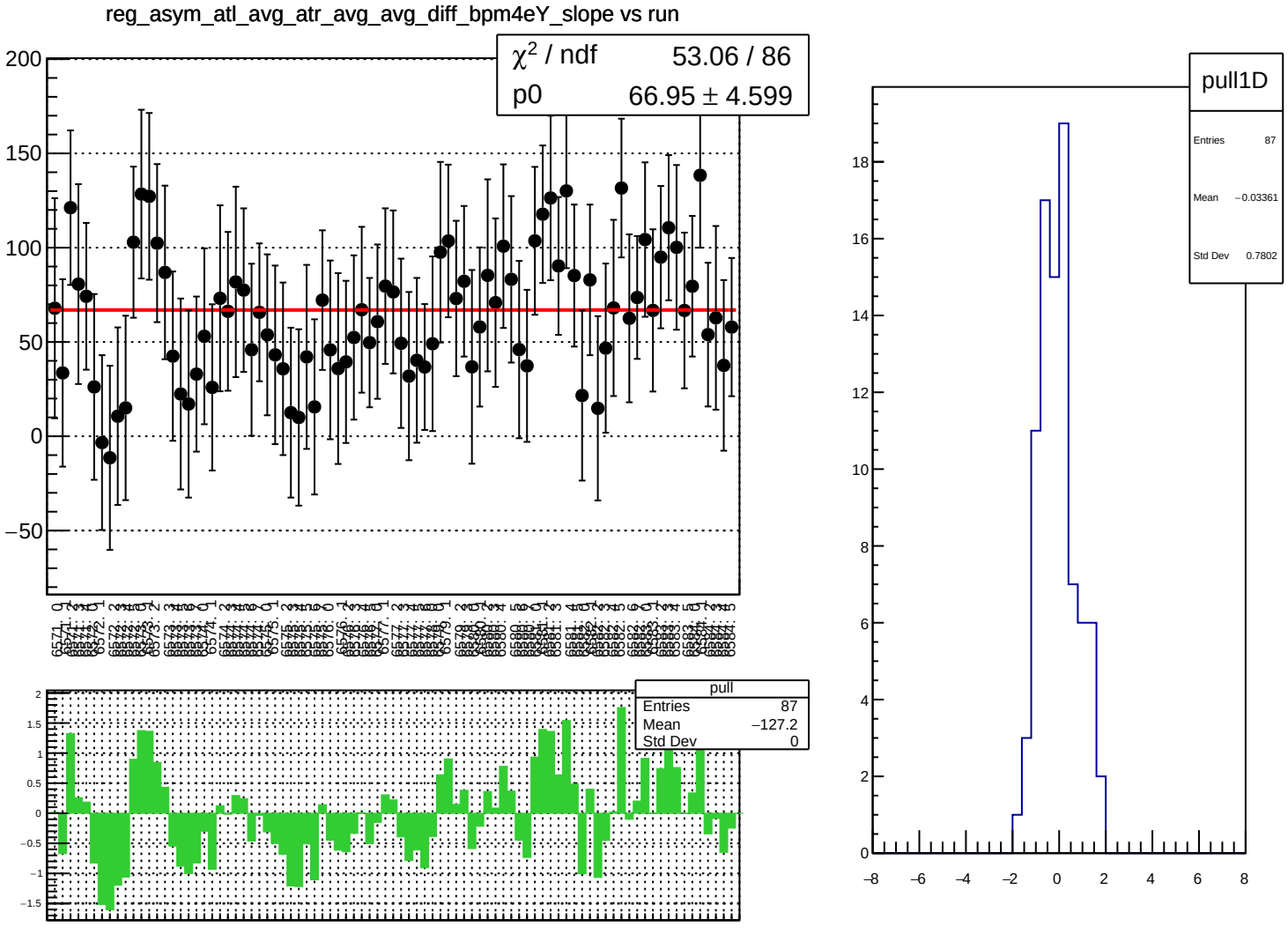

pull1D
Entries 87
Mean −0.01879
Std Dev 0.9448

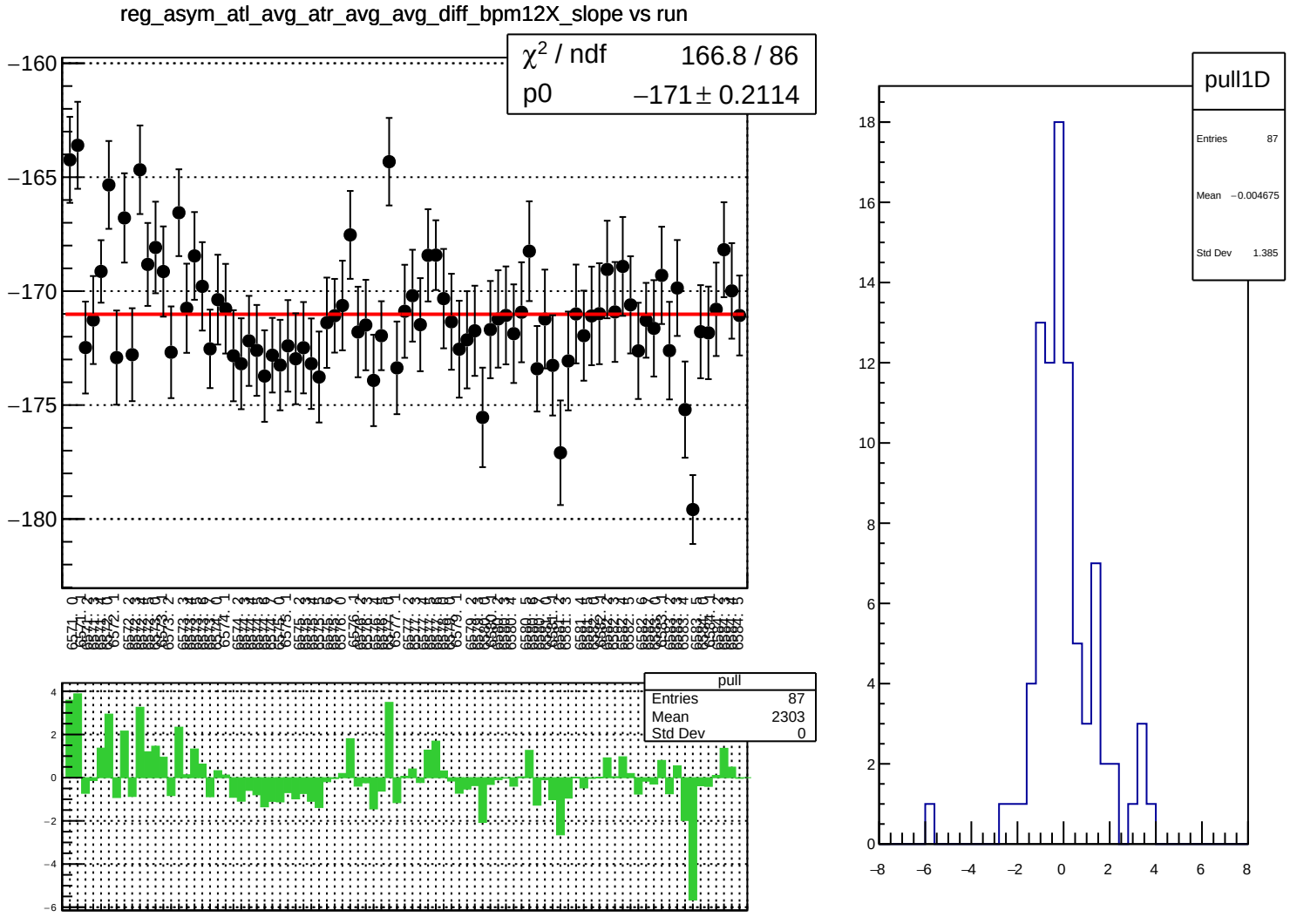

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 76.33 / 86
p0 9.274 ± 0.06109
pull
Entries 87
Mean −918.9
Std Dev 0
pull1D
Entries 87
Mean 0.003692
Std Dev 0.9366

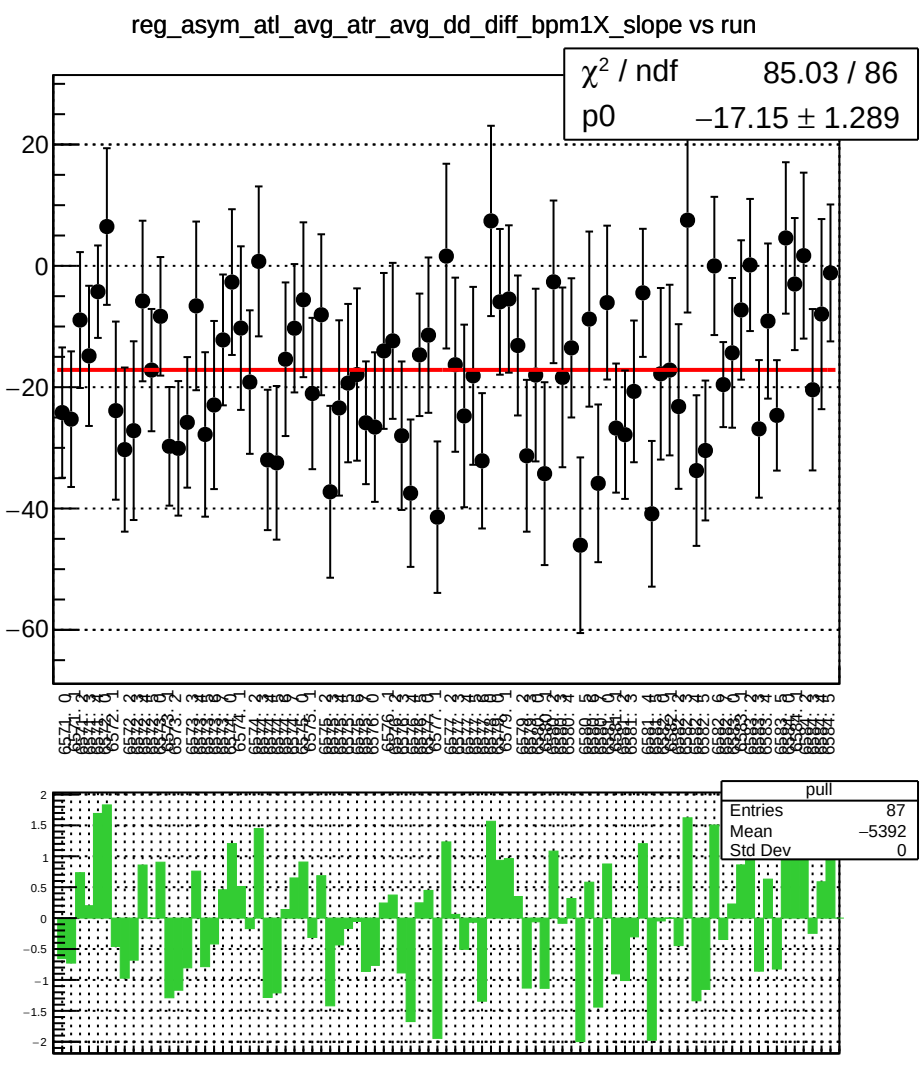

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 99.58 / 86
p0 −239.6 ± 4.604
pull
Entries 87
Mean −10.65
Std Dev 0
pull1D
Entries 87
Mean −0.07166
Std Dev 1.067

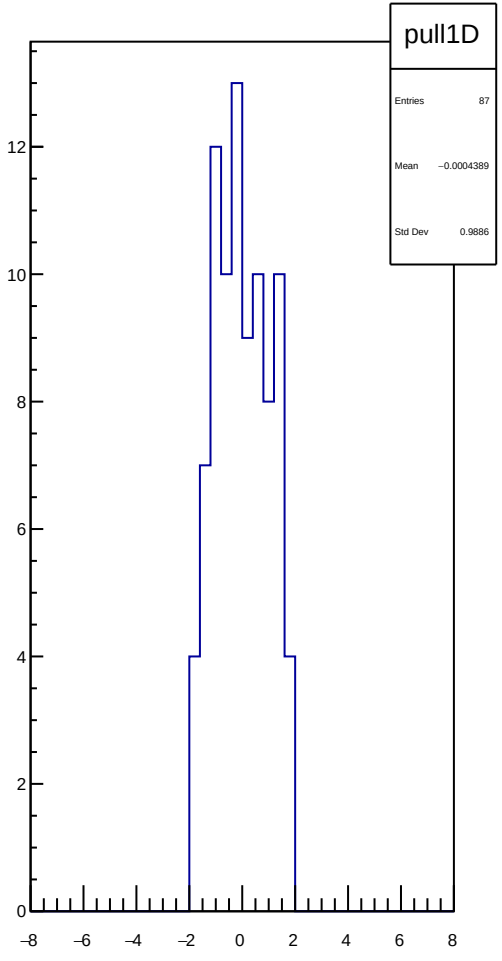

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.06 / 86
p0 18.79 ± 3.824
pull
Entries 87
Mean −88.72
Std Dev 0
pull1D
Entries 87
Mean 0.02985
Std Dev 0.7655

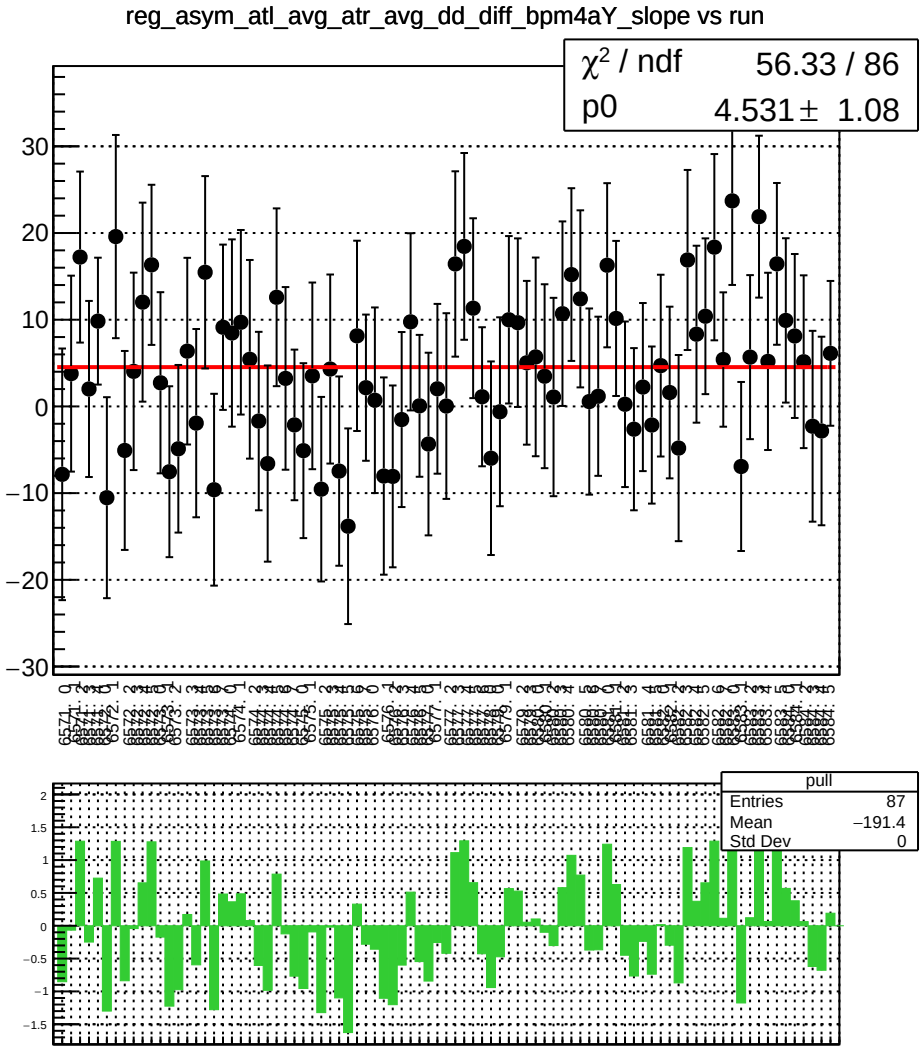

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 101.6 / 86
p0 263.8 ± 4.734
pull
Entries 87
Mean −1.461
Std Dev 0
pull1D
Entries 87
Mean 0.07817
Std Dev 1.078

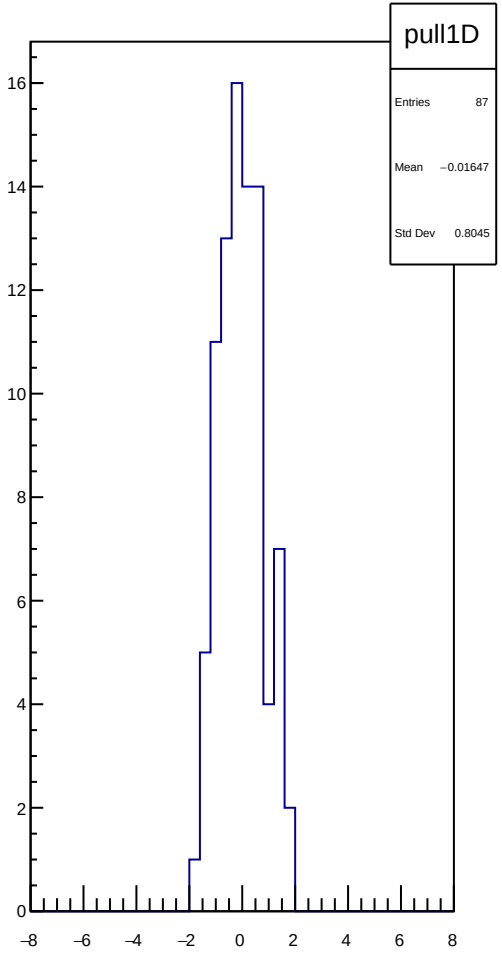

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.06 / 86
p0 66.95 ± 4.599
pull
Entries 87
Mean −127.2
Std Dev 0
pull1D
Entries 87
Mean −0.03361
Std Dev 0.7802

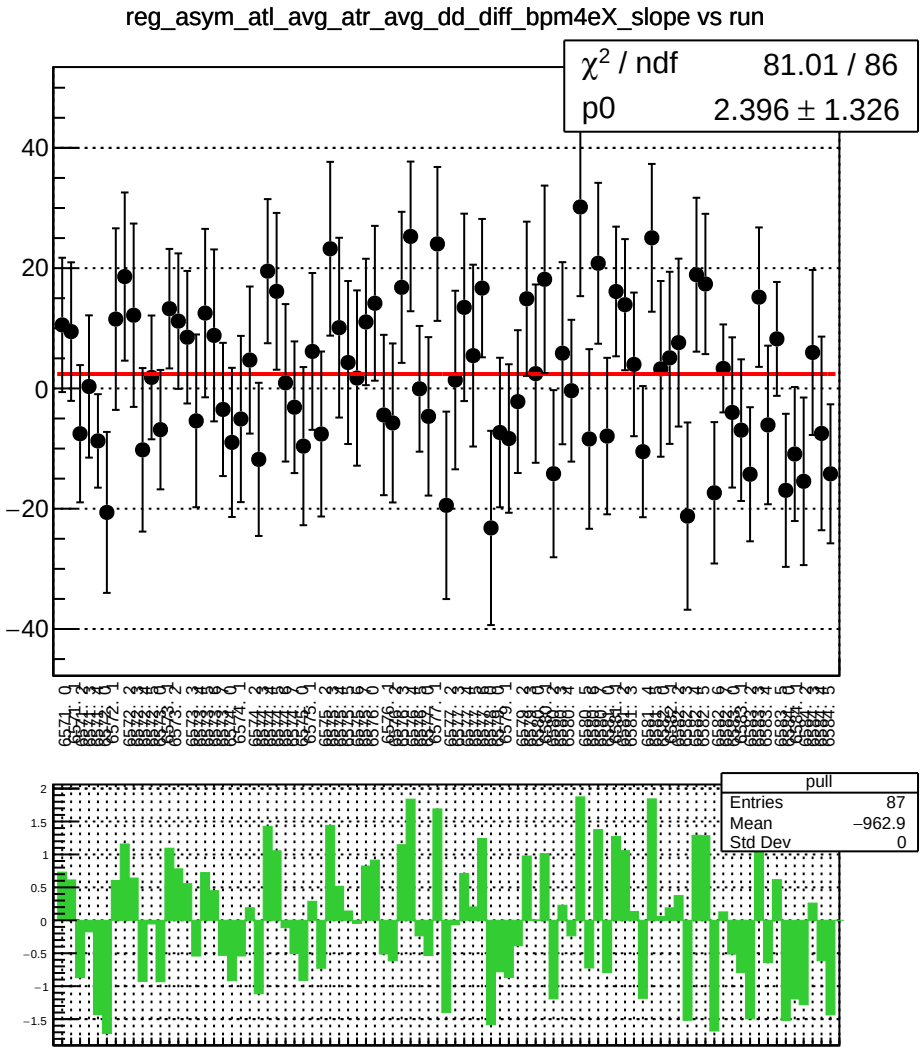

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 166.8 / 86
p0 −171 ± 0.2114
−160
−165
−170
−175
−180
pull
Entries 87
Mean 2303
Std Dev 0
pull1D
Entries 87
Mean −0.004675
Std Dev 1.385

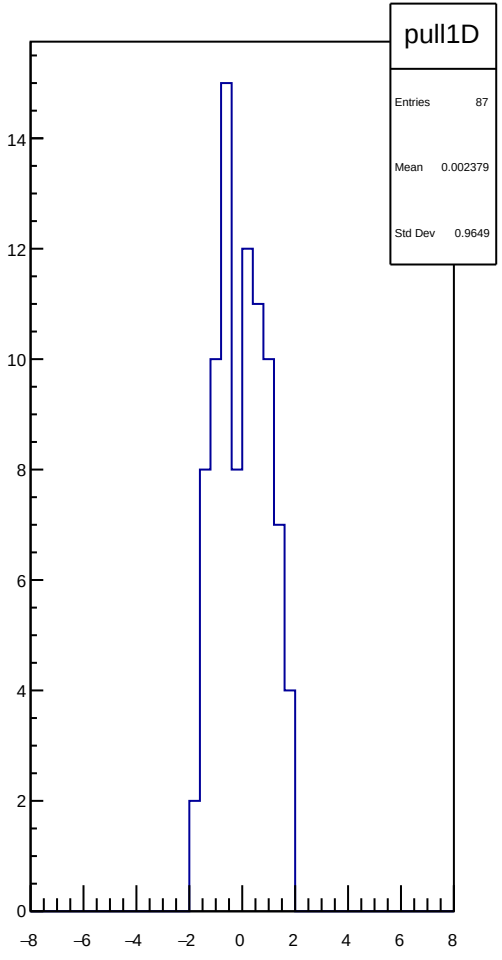

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 85.03 / 86
p0 −17.15 ± 1.289
pull
Entries 87
Mean −5392
Std Dev 0

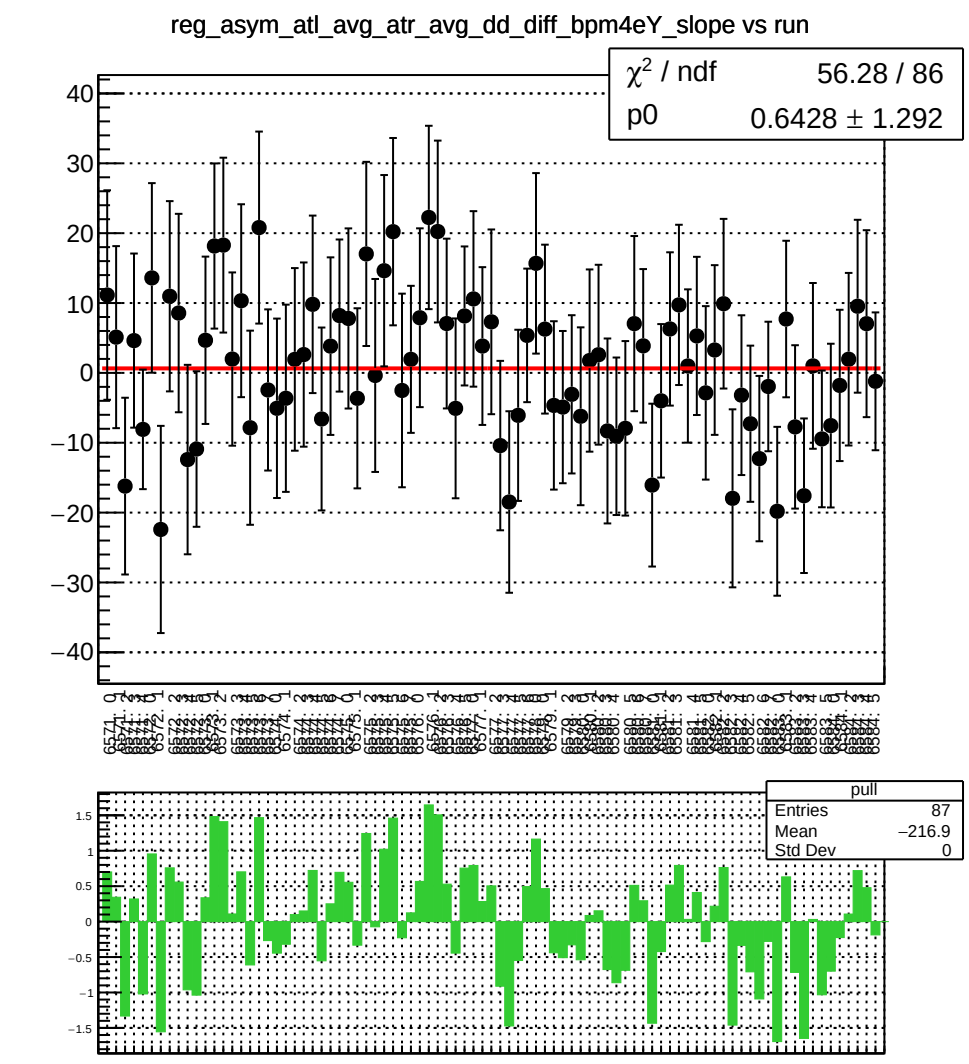

pull1D
Entries 87
Mean −0.0004389
Std Dev 0.9886

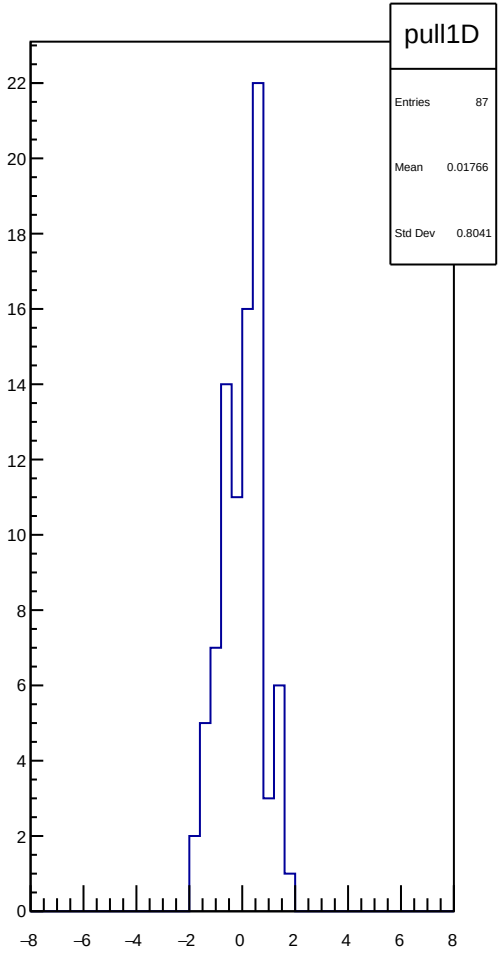

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.33 / 86
p0 4.531 ± 1.08
pull
Entries 87
Mean −191.4
Std Dev 0

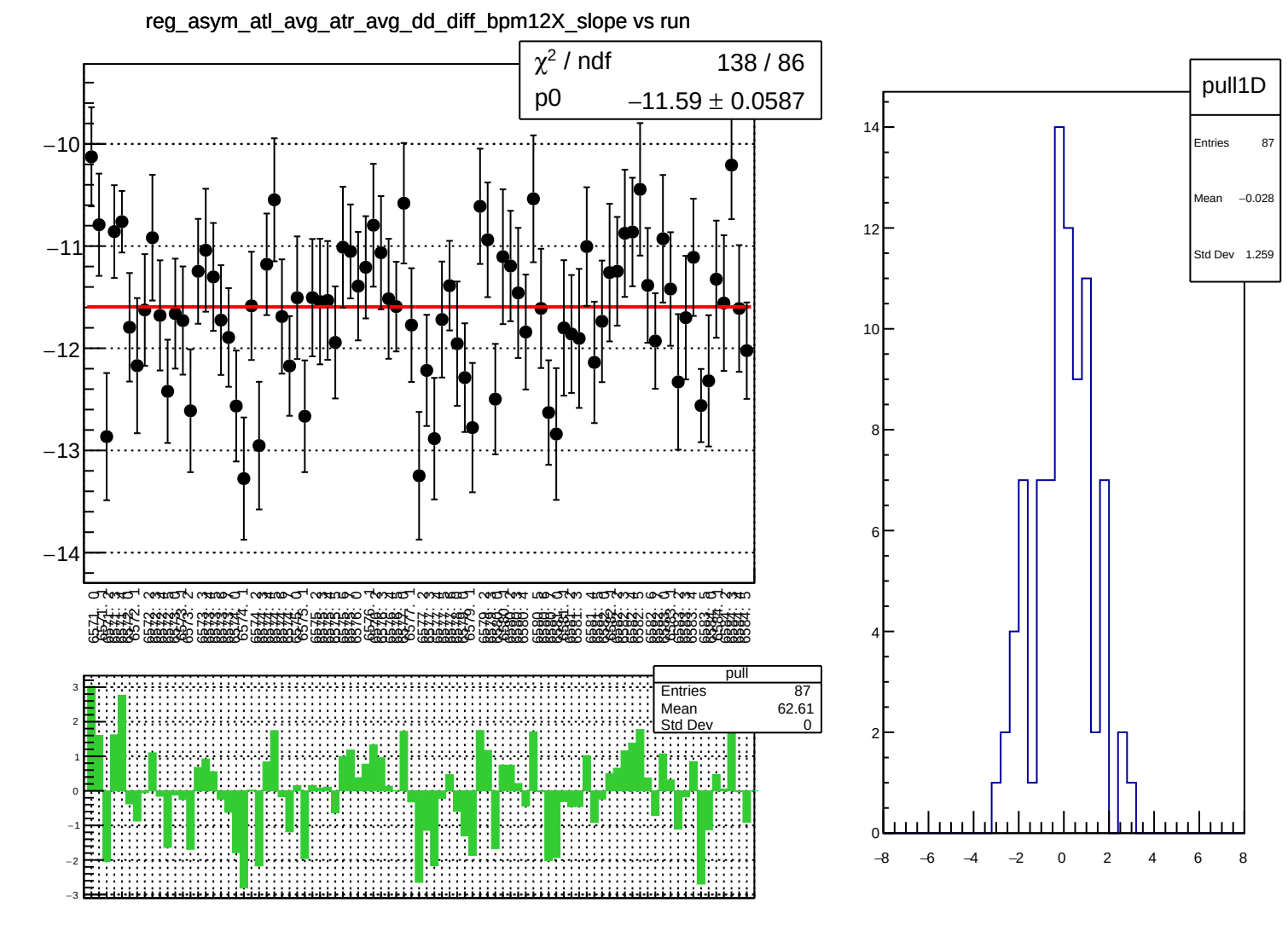

pull1D
Entries 87
Mean −0.01647
Std Dev 0.8045

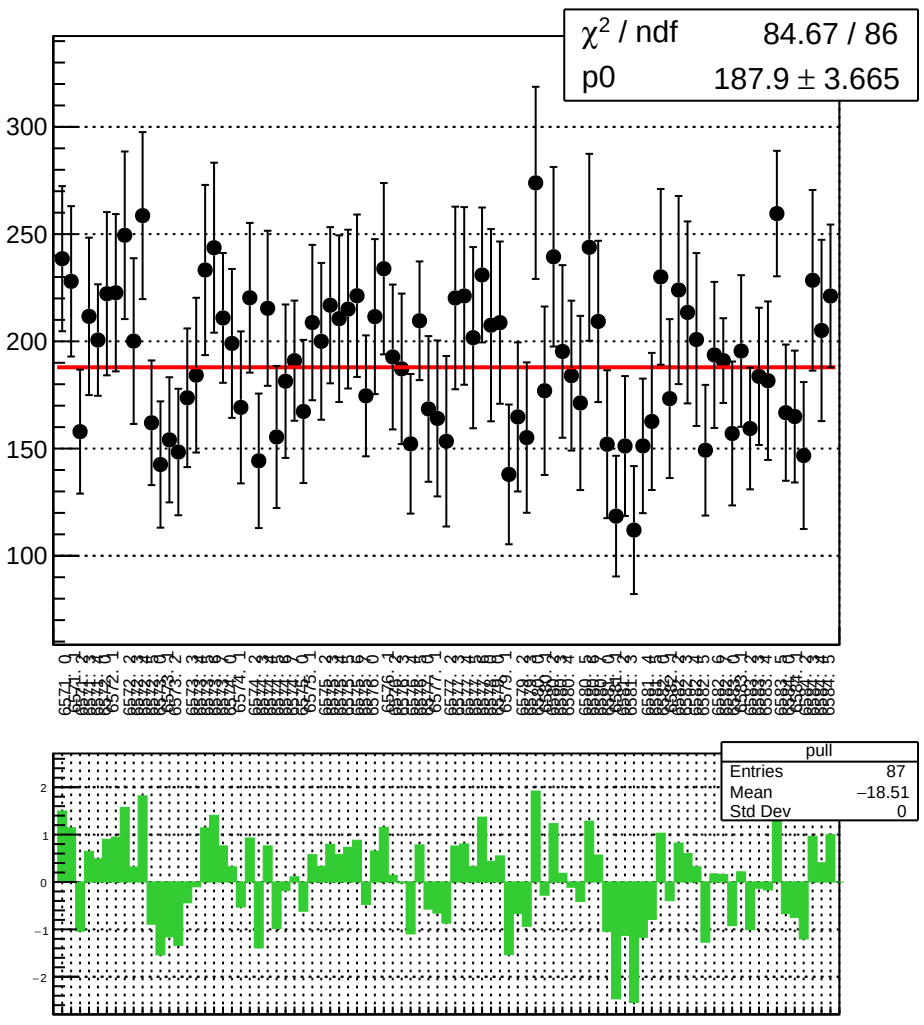

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.01 / 86
p0 2.396 ± 1.326
pull
Entries 87
Mean −962.9
Std Dev 0

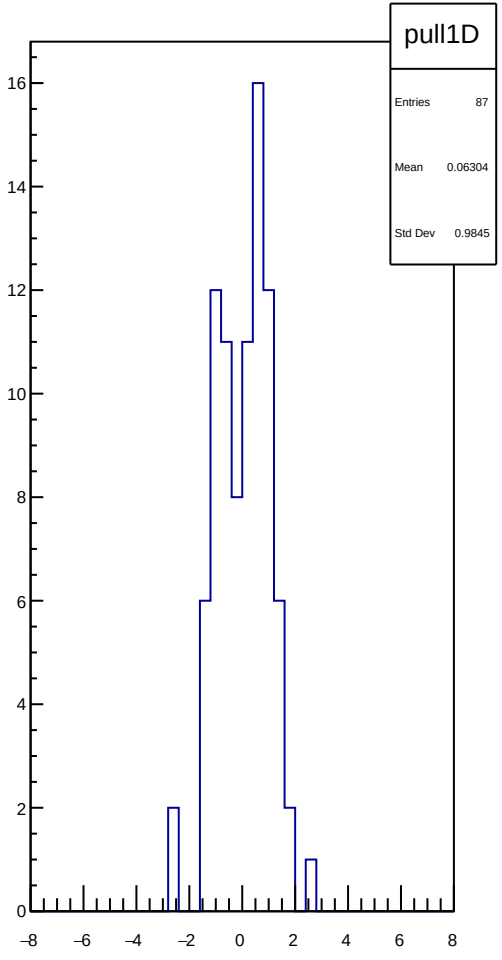

pull1D
Entries 87
Mean 0.002379
Std Dev 0.9649

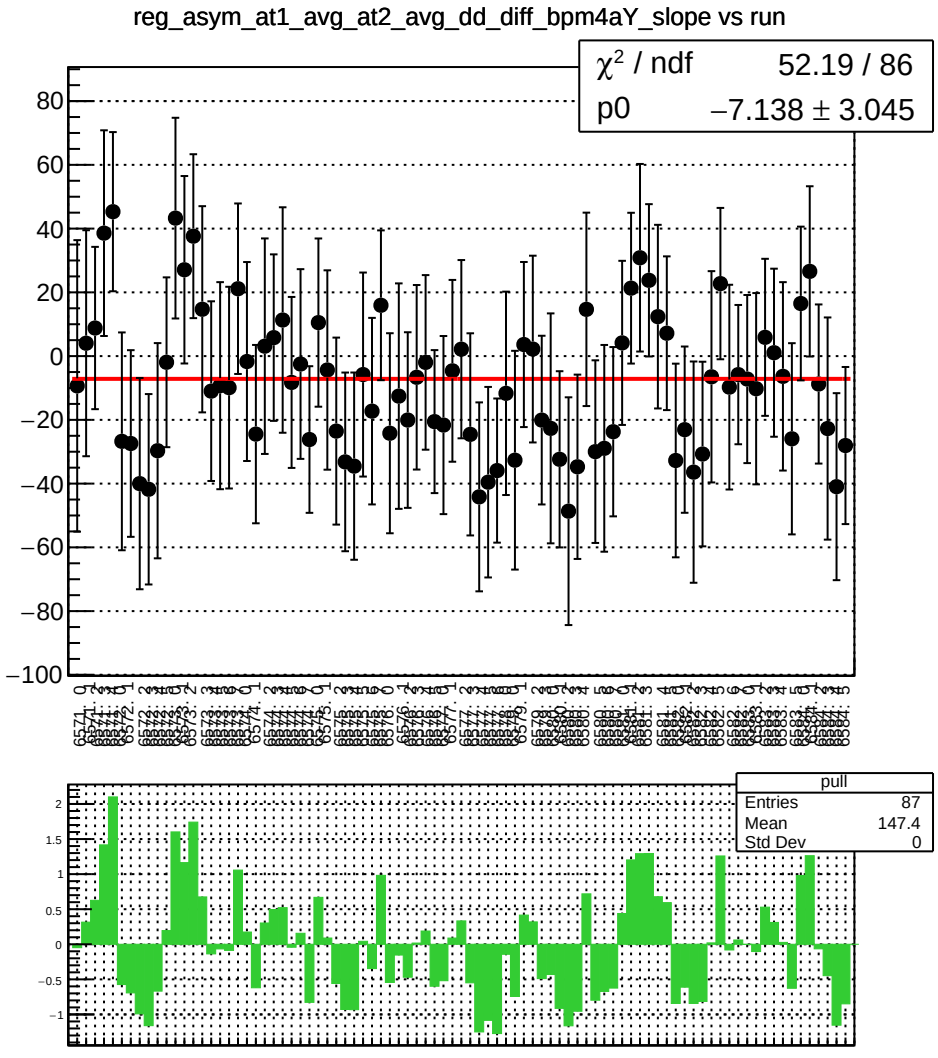

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.28 / 86
p0 0.6428 ± 1.292
pull
Entries 87
Mean −216.9
Std Dev 0

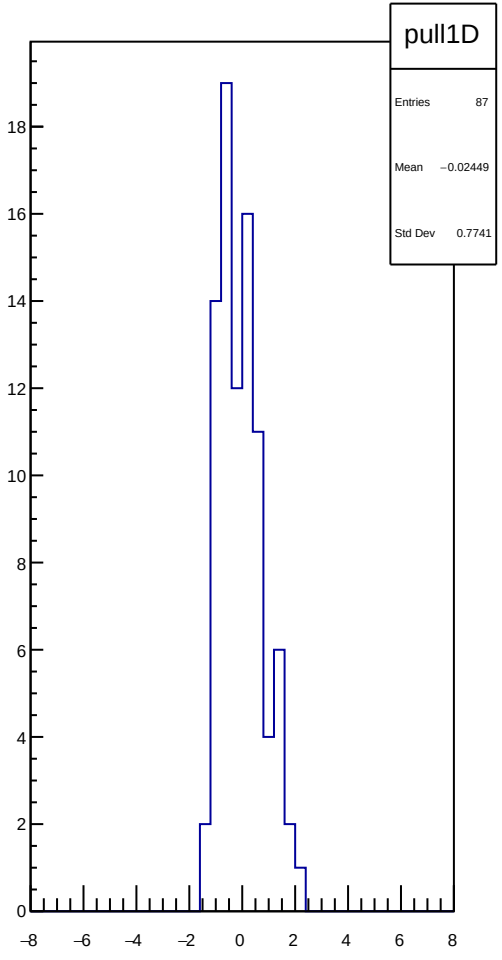

pull1D
Entries 87
Mean 0.01766
Std Dev 0.8041

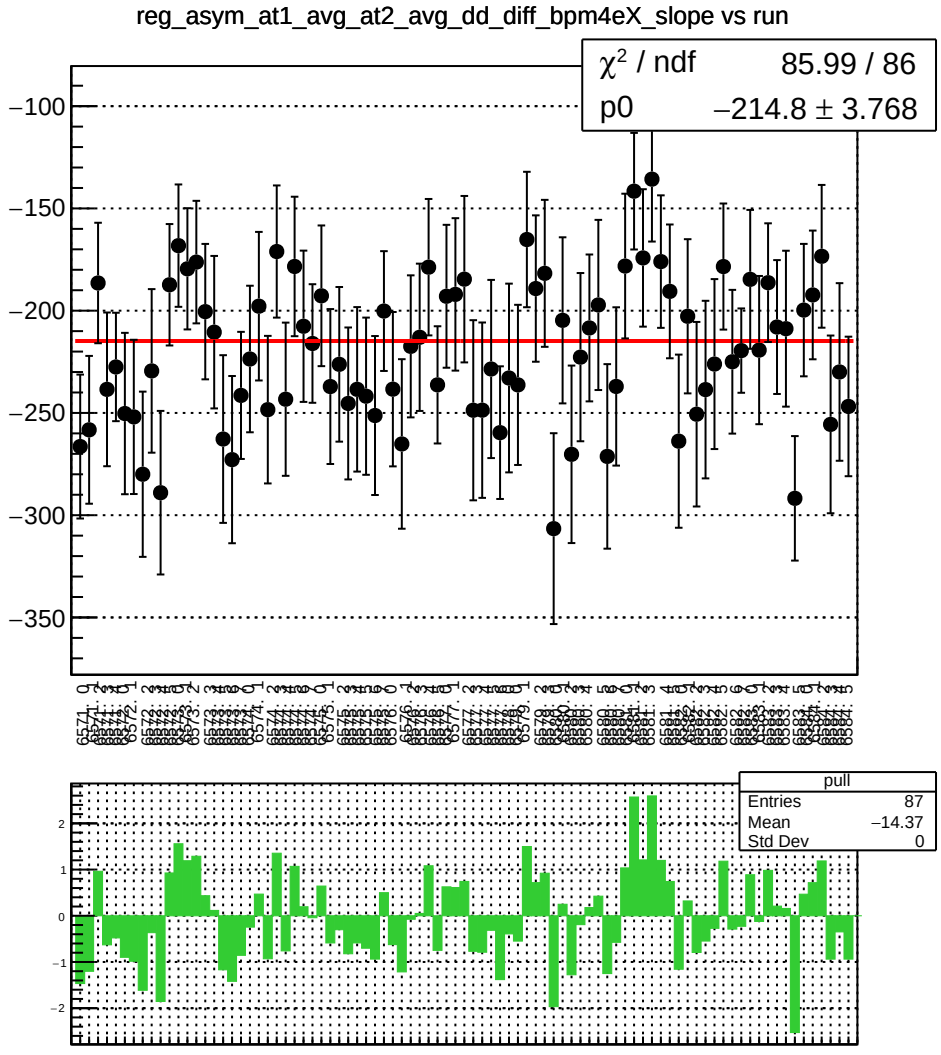

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 138 / 86
p0 −11.59 ± 0.0587
−10
−11
−12
−13
−14
pull
Entries 87
Mean 62.61
Std Dev 0
pull1D
Entries 87
Mean −0.028
Std Dev 1.259

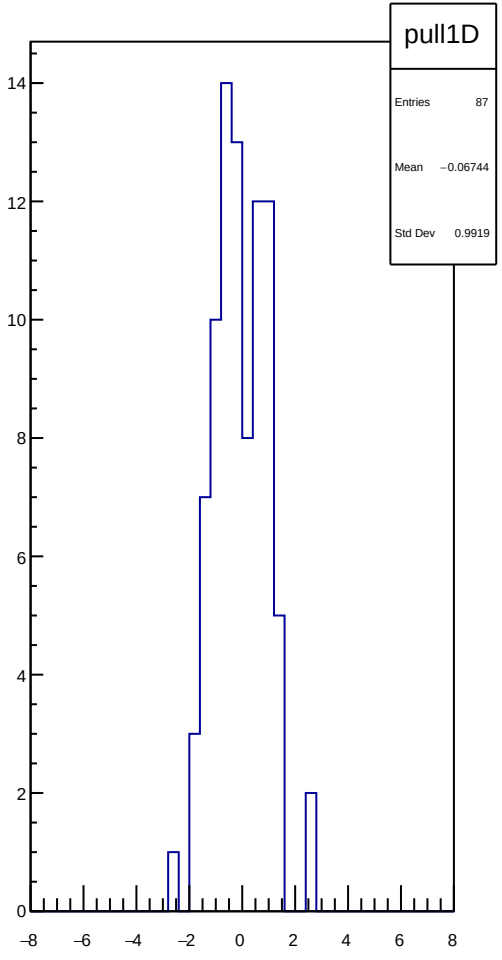

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 84.67 / 86
p0 187.9 ± 3.665
300
250
200
150
100
pull
Entries 87
Mean −18.51
Std Dev 0
2
1
0
−1
−2

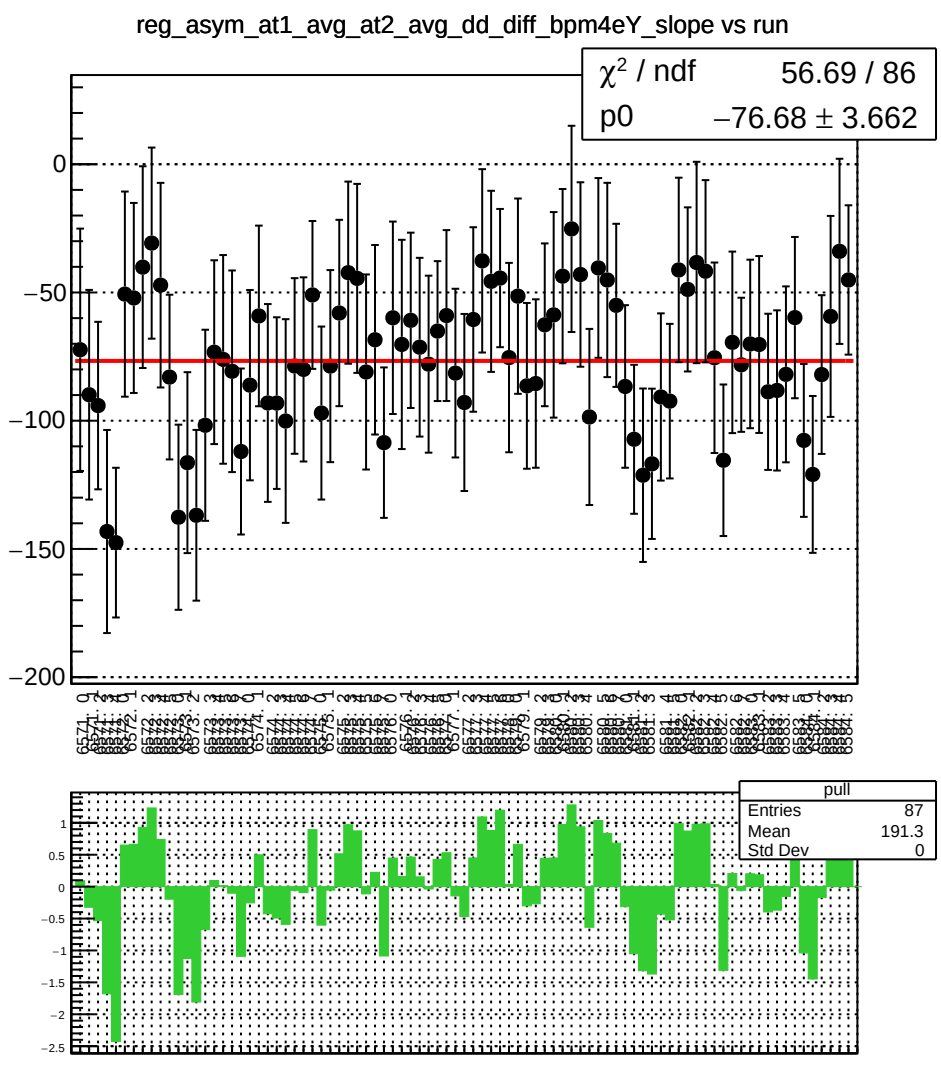

pull1D
Entries 87
Mean 0.06304
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

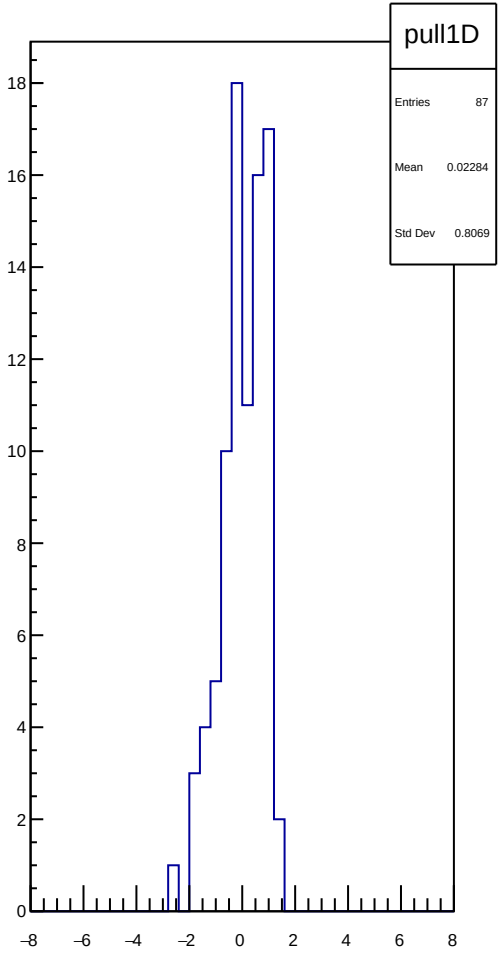

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.19 / 86
p0 −7.138 ± 3.045
pull
Entries 87
Mean 147.4
Std Dev 0

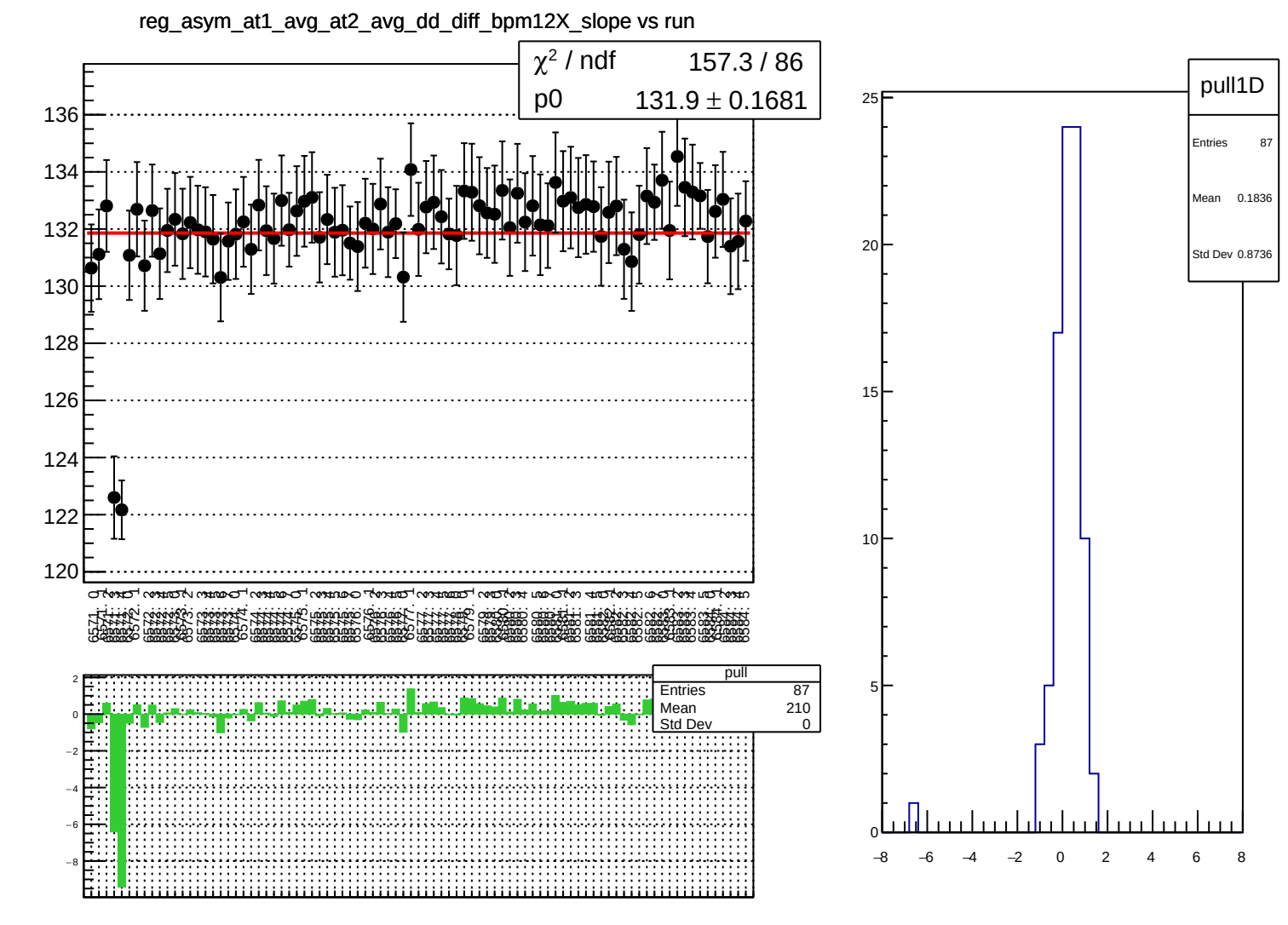

pull1D
Entries 87
Mean −0.02449
Std Dev 0.7741

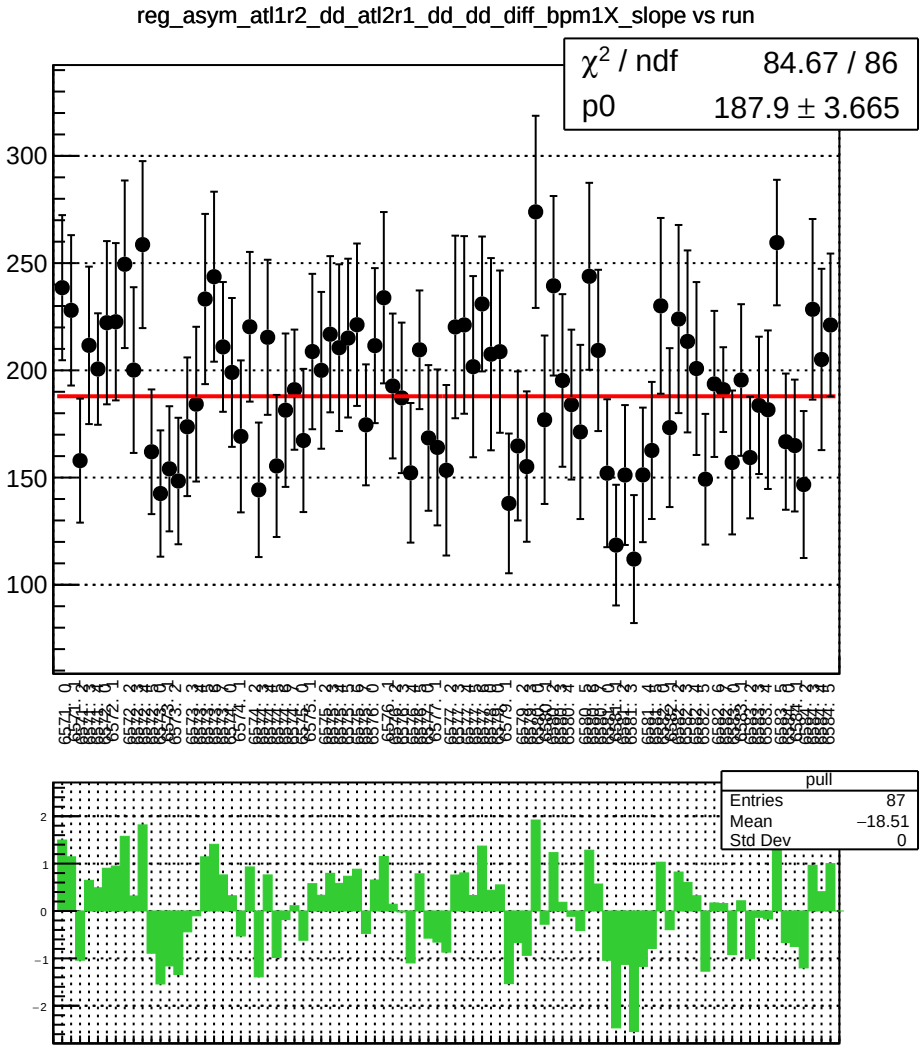

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.99 / 86
p0 −214.8 ± 3.768
pull
Entries 87
Mean −14.37
Std Dev 0

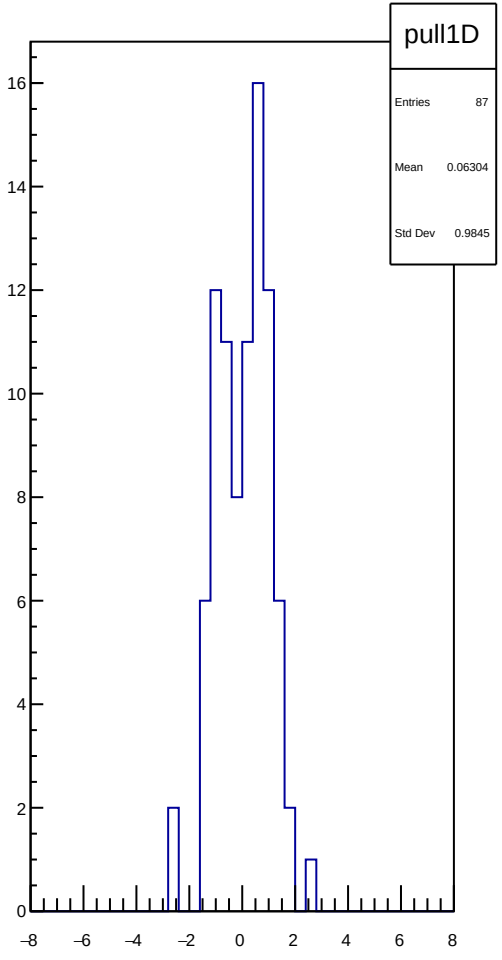

pull1D
Entries 87
Mean −0.06744
Std Dev 0.9919

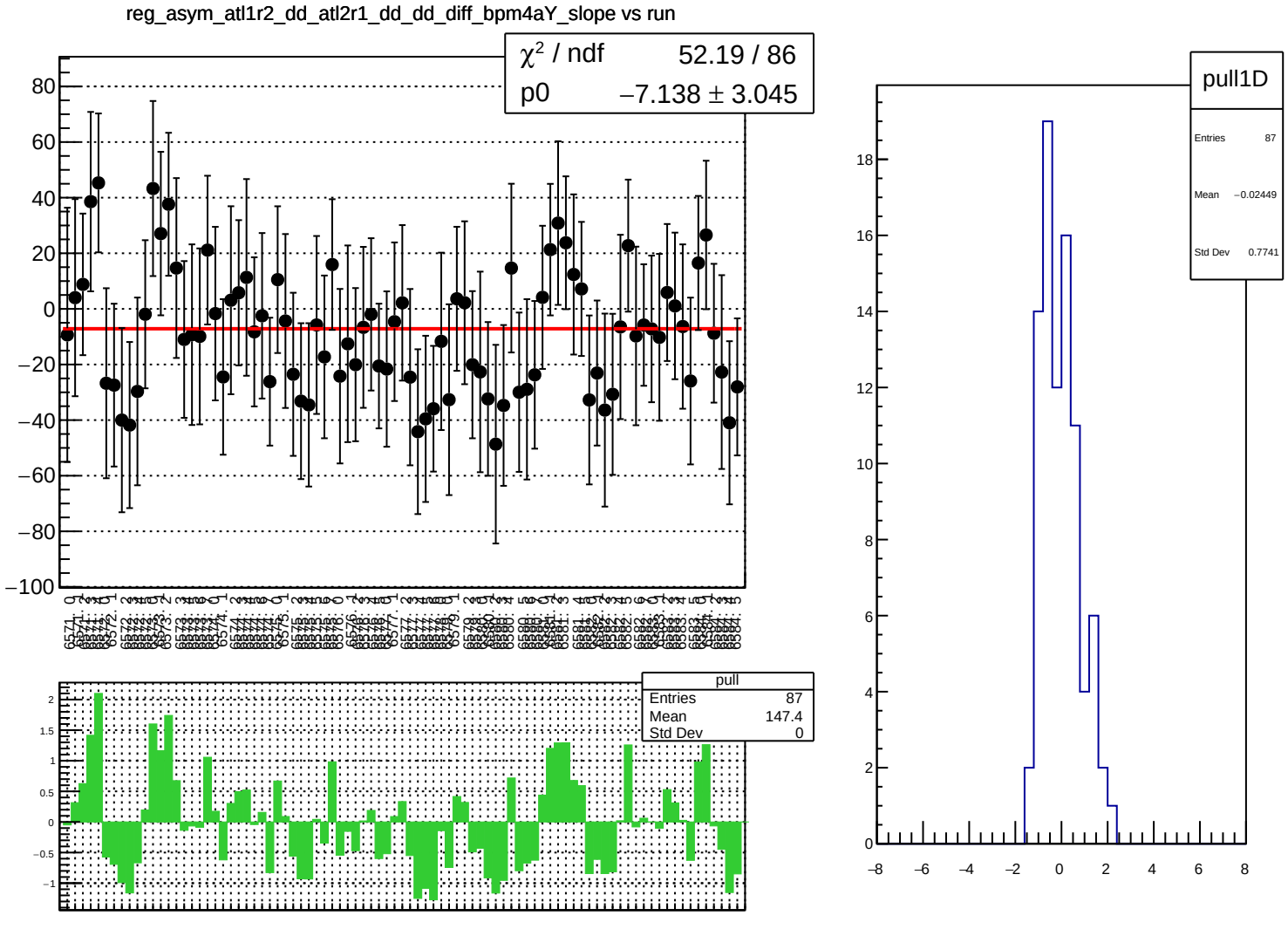

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.69 / 86
p0 −76.68 ± 3.662
pull
Entries 87
Mean 191.3
Std Dev 0

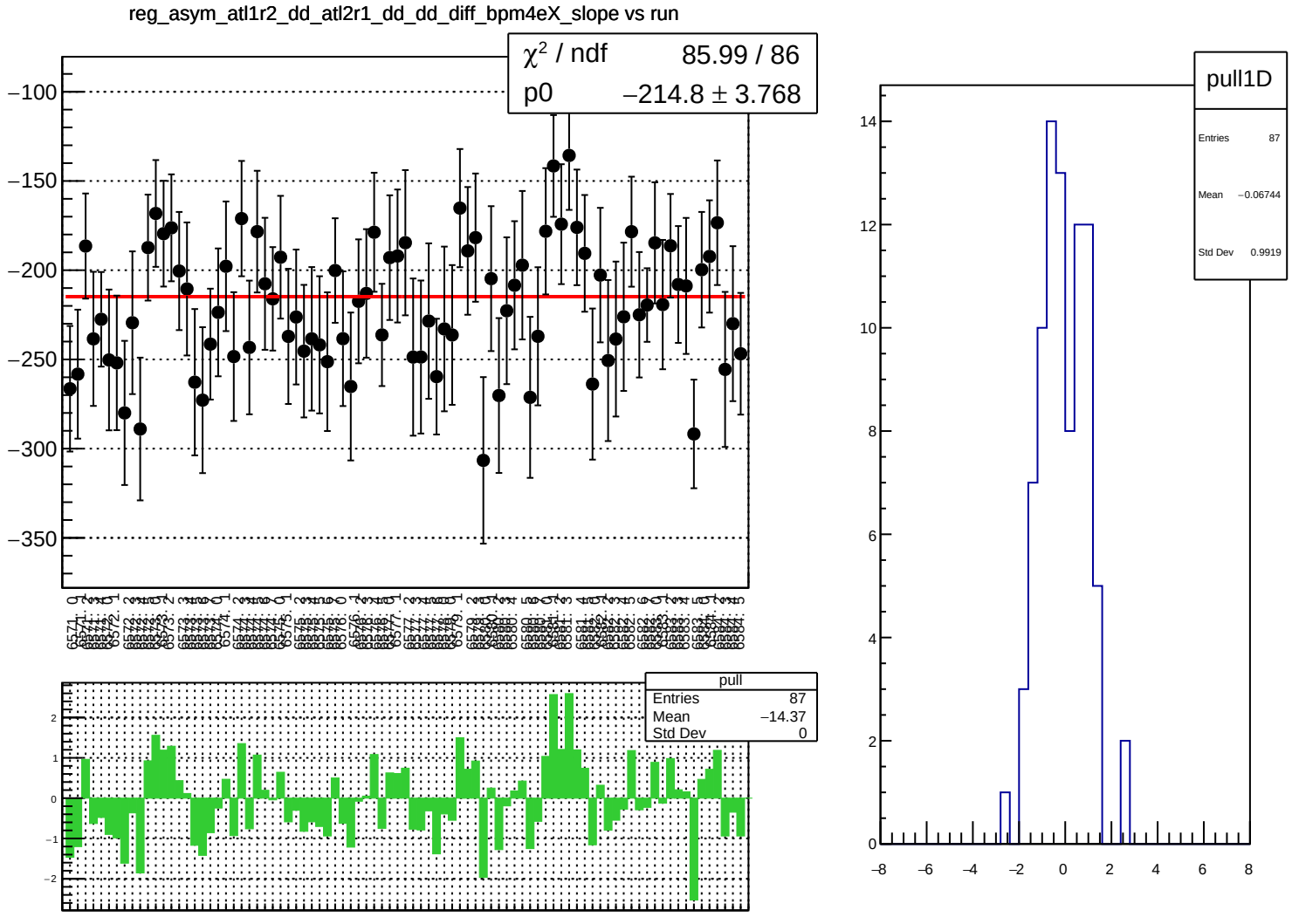

pull1D
Entries 87
Mean 0.02284
Std Dev 0.8069

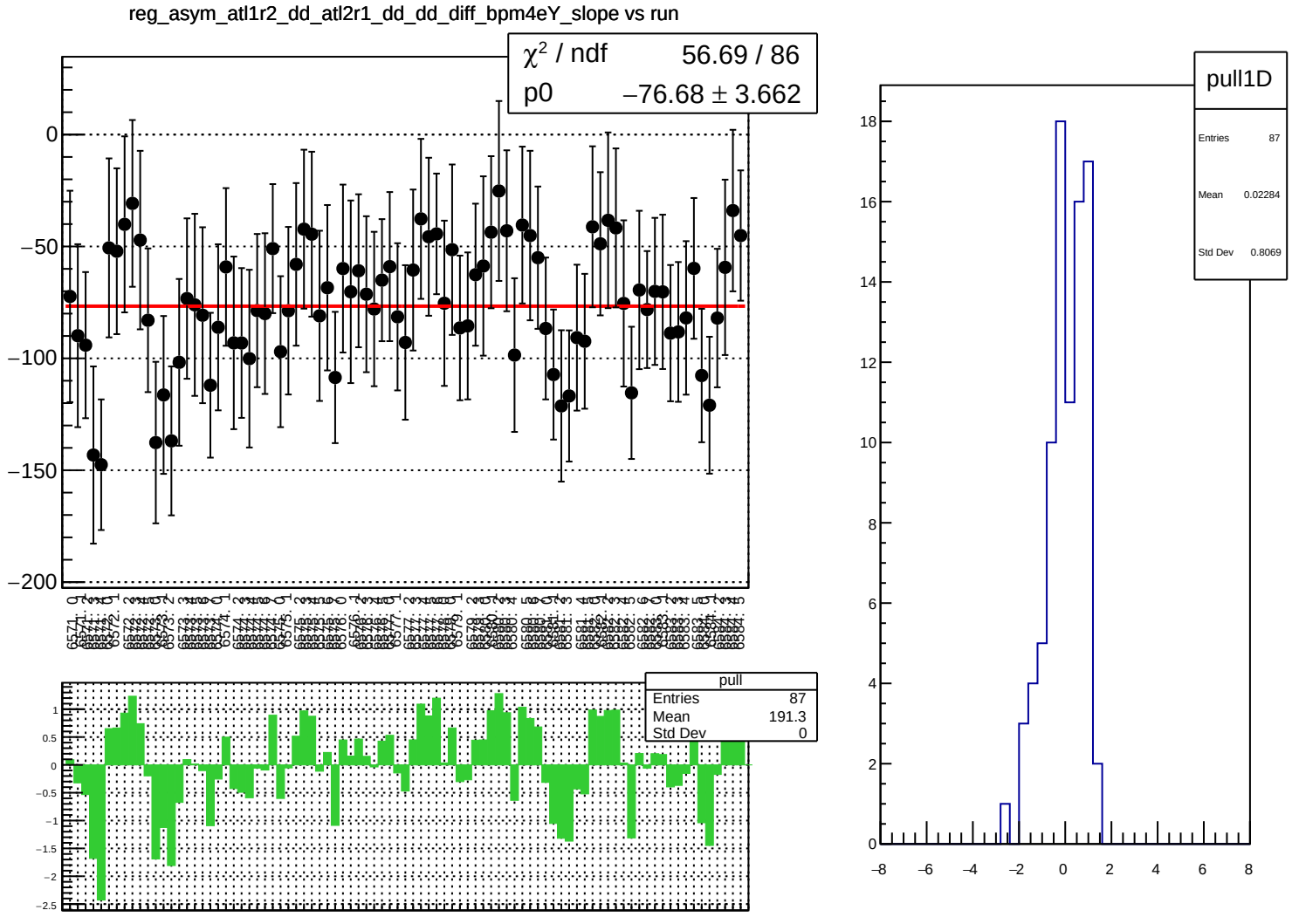

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 157.3 / 86
p0 131.9 ± 0.1681
pull
Entries 87
Mean 210
Std Dev 0
pull1D
Entries 87
Mean 0.1836
Std Dev 0.8736

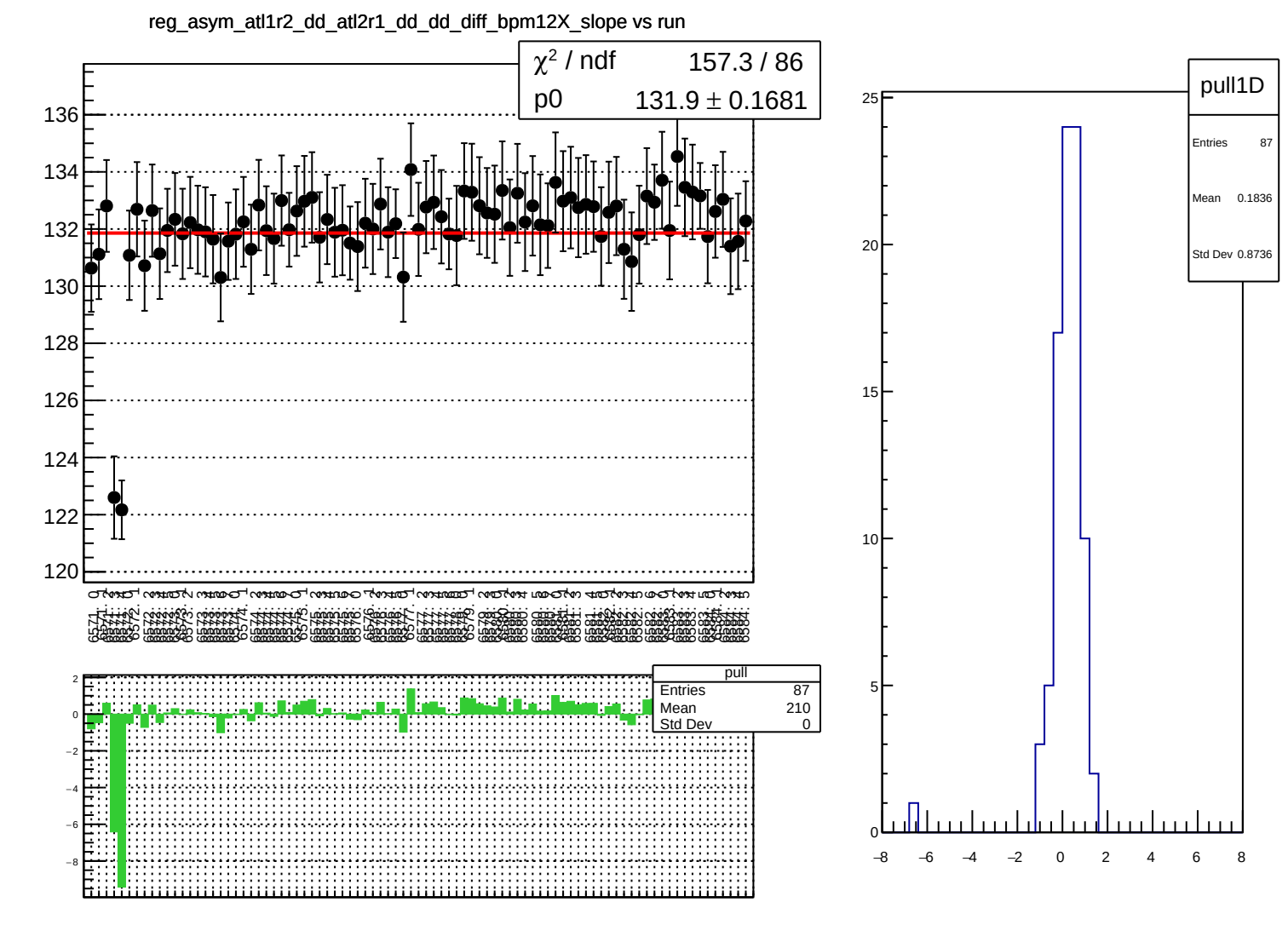

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 84.67 / 86
p0 187.9 ± 3.665
300
250
200
150
100
pull
Entries 87
Mean −18.51
Std Dev 0
2
1
0
−1
−2

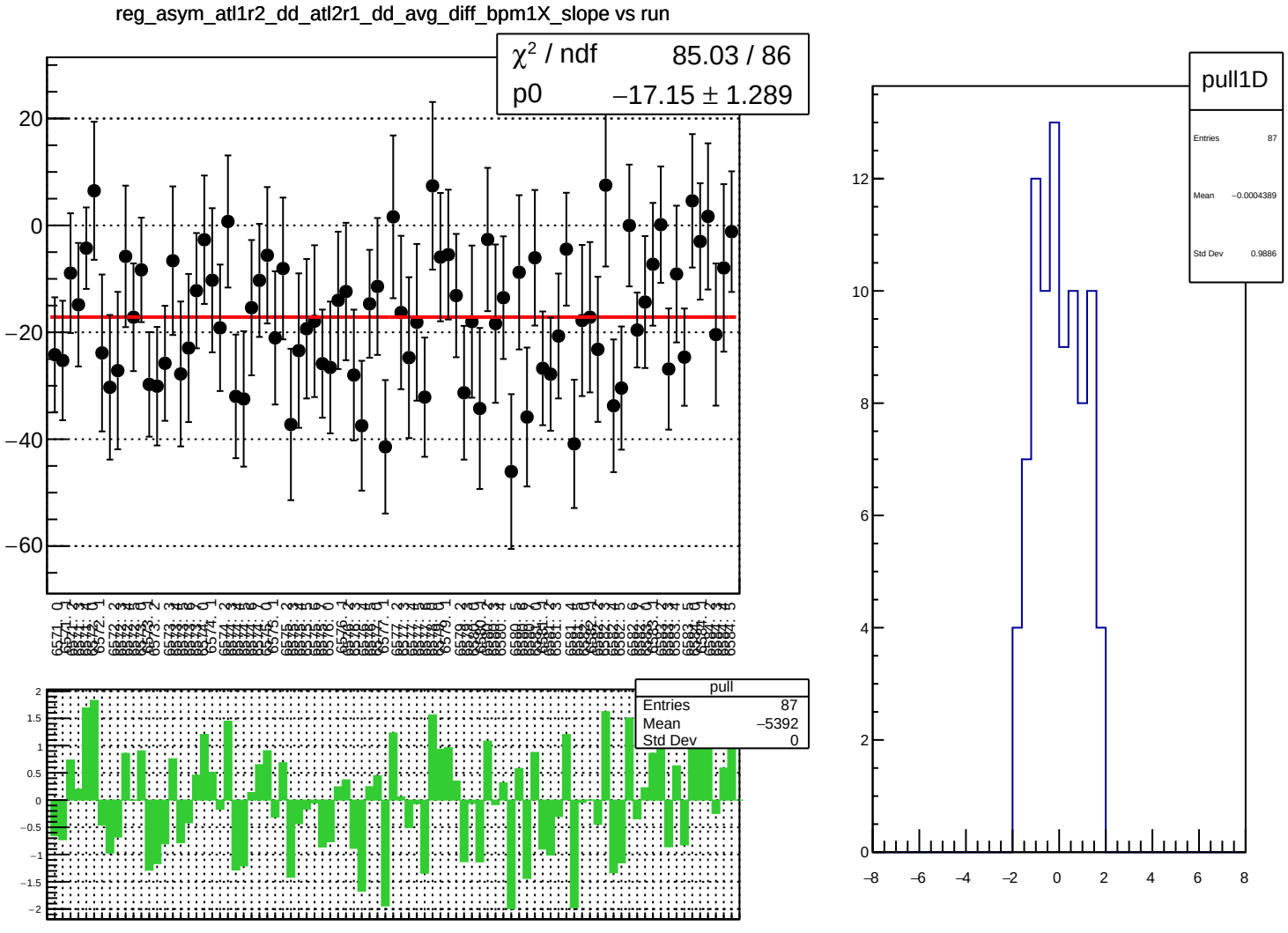

pull1D
Entries 87
Mean 0.06304
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

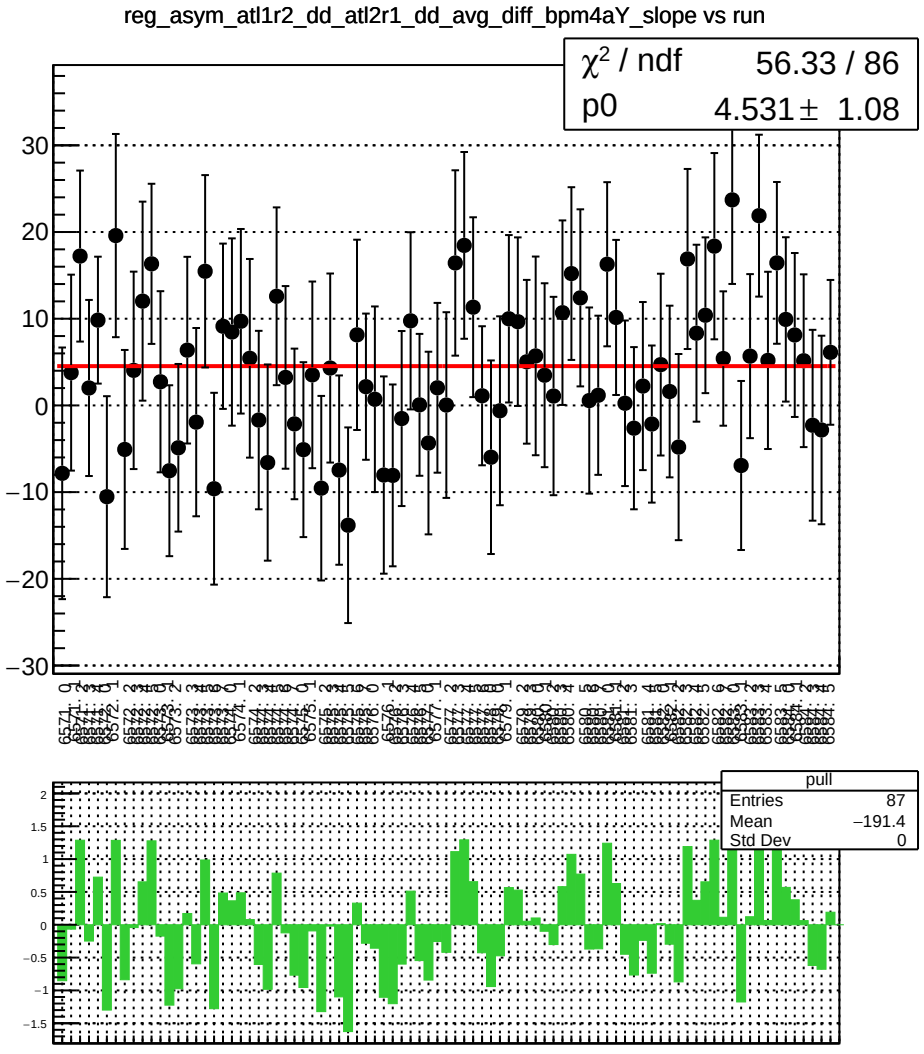

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.19 / 86
p0 −7.138 ± 3.045
pull
Entries 87
Mean 147.4
Std Dev 0
pull1D
Entries 87
Mean −0.02449
Std Dev 0.7741

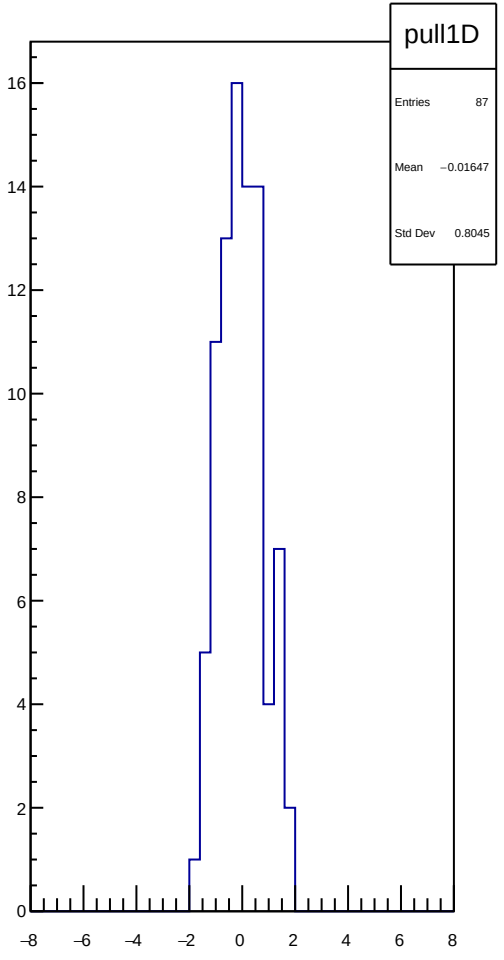

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.99 / 86
p0 −214.8 ± 3.768
pull
Entries 87
Mean −14.37
Std Dev 0
pull1D
Entries 87
Mean −0.06744
Std Dev 0.9919

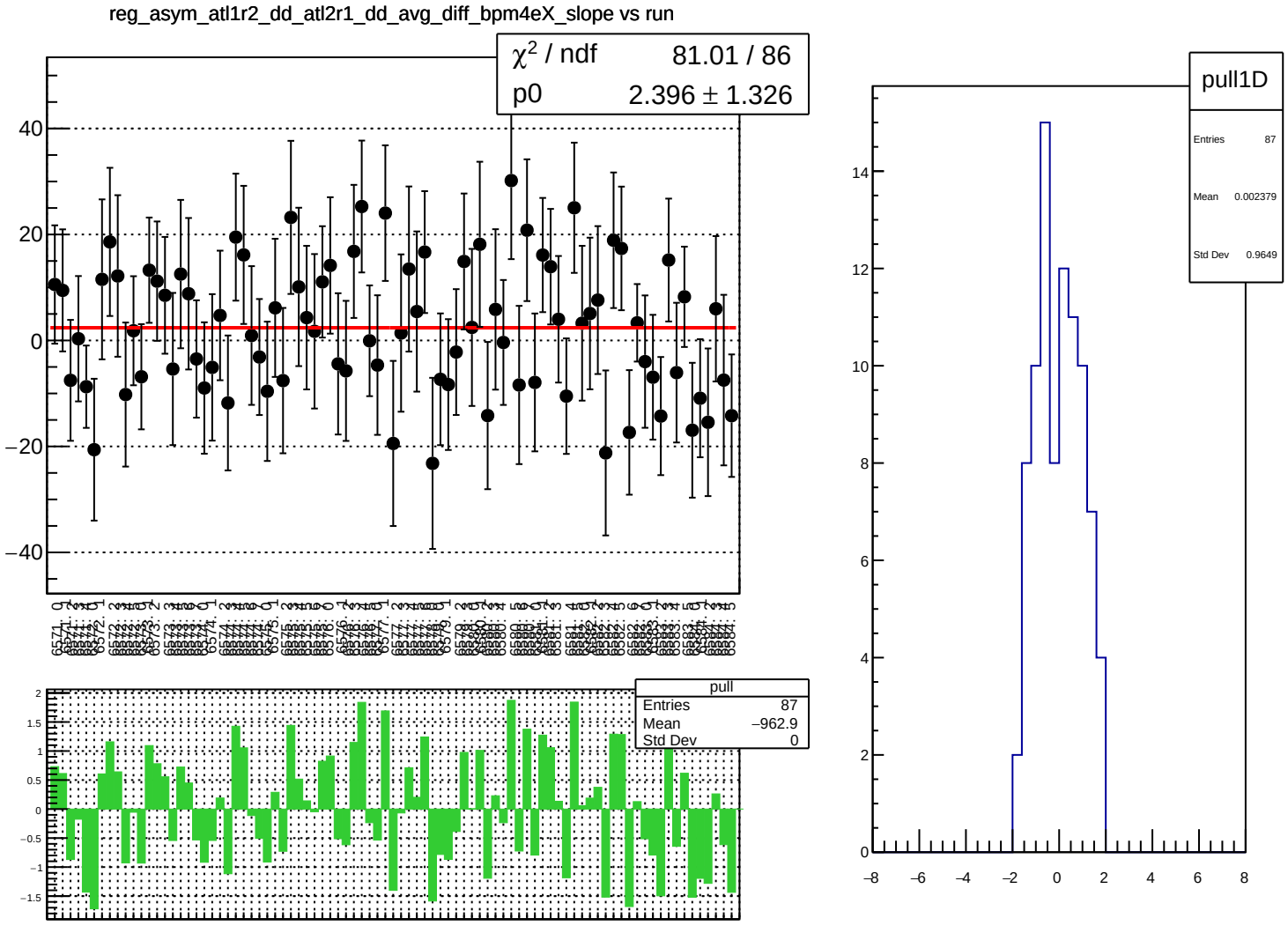

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.69 / 86
p0 −76.68 ± 3.662
pull
Entries 87
Mean 191.3
Std Dev 0
pull1D
Entries 87
Mean 0.02284
Std Dev 0.8069

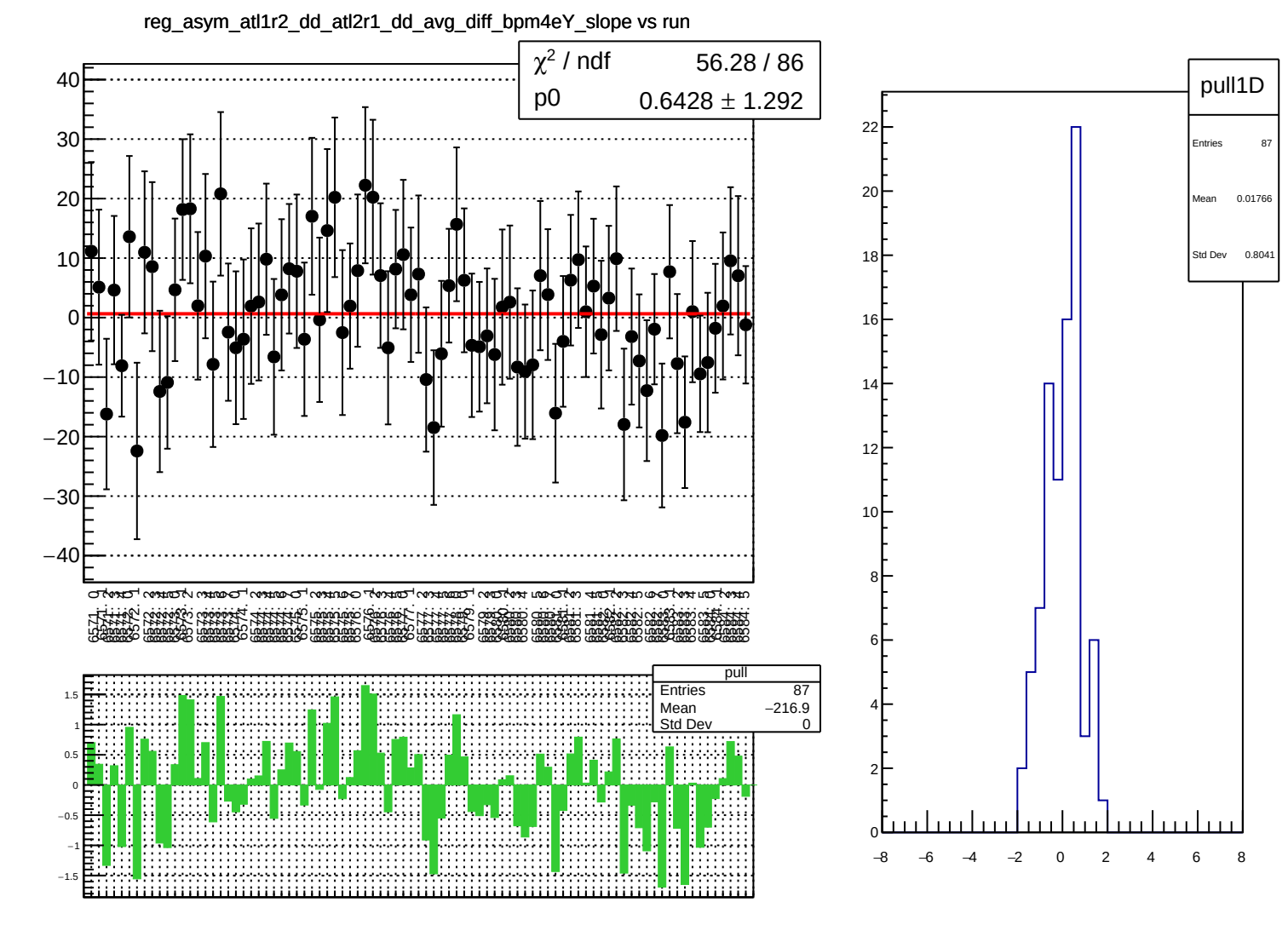

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 157.3 / 86
p0 131.9 ± 0.1681
pull
Entries 87
Mean 210
Std Dev 0
pull1D
Entries 87
Mean 0.1836
Std Dev 0.8736

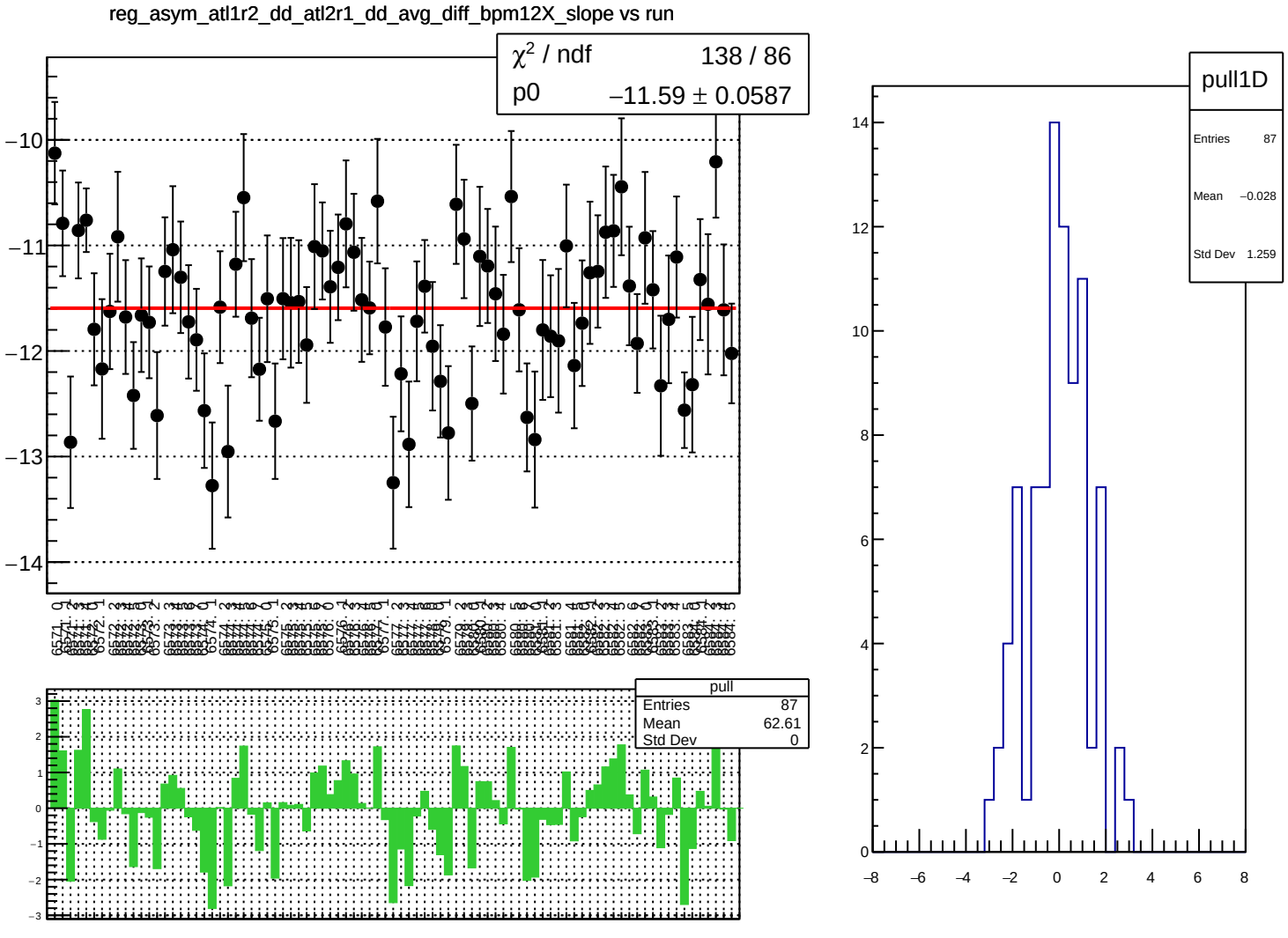

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 85.03 / 86
p0 −17.15 ± 1.289
pull
Entries 87
Mean −5392
Std Dev 0
pull1D
Entries 87
Mean −0.0004389
Std Dev 0.9886

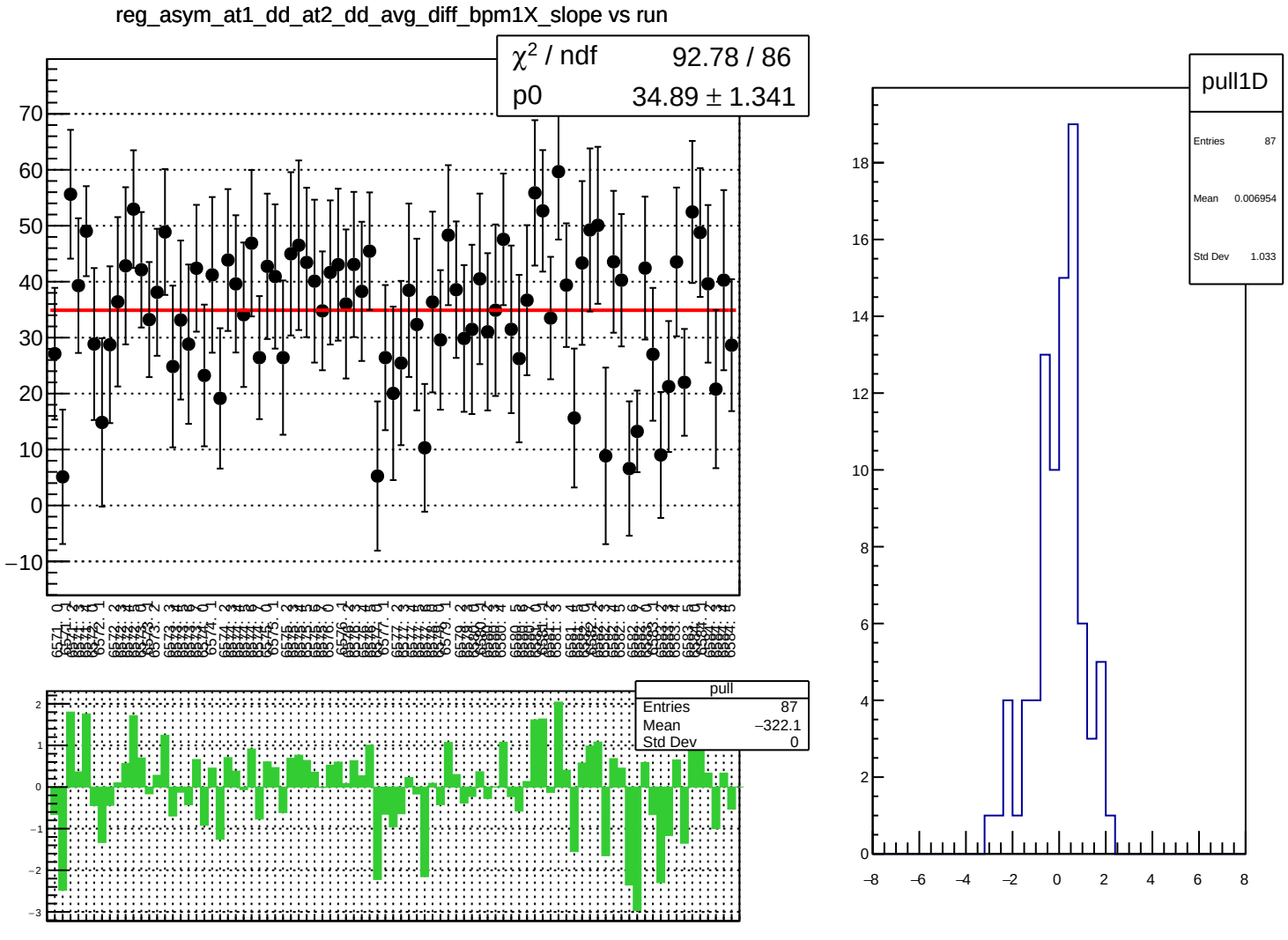

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.33 / 86
p0 4.531 ± 1.08
pull
Entries 87
Mean −191.4
Std Dev 0

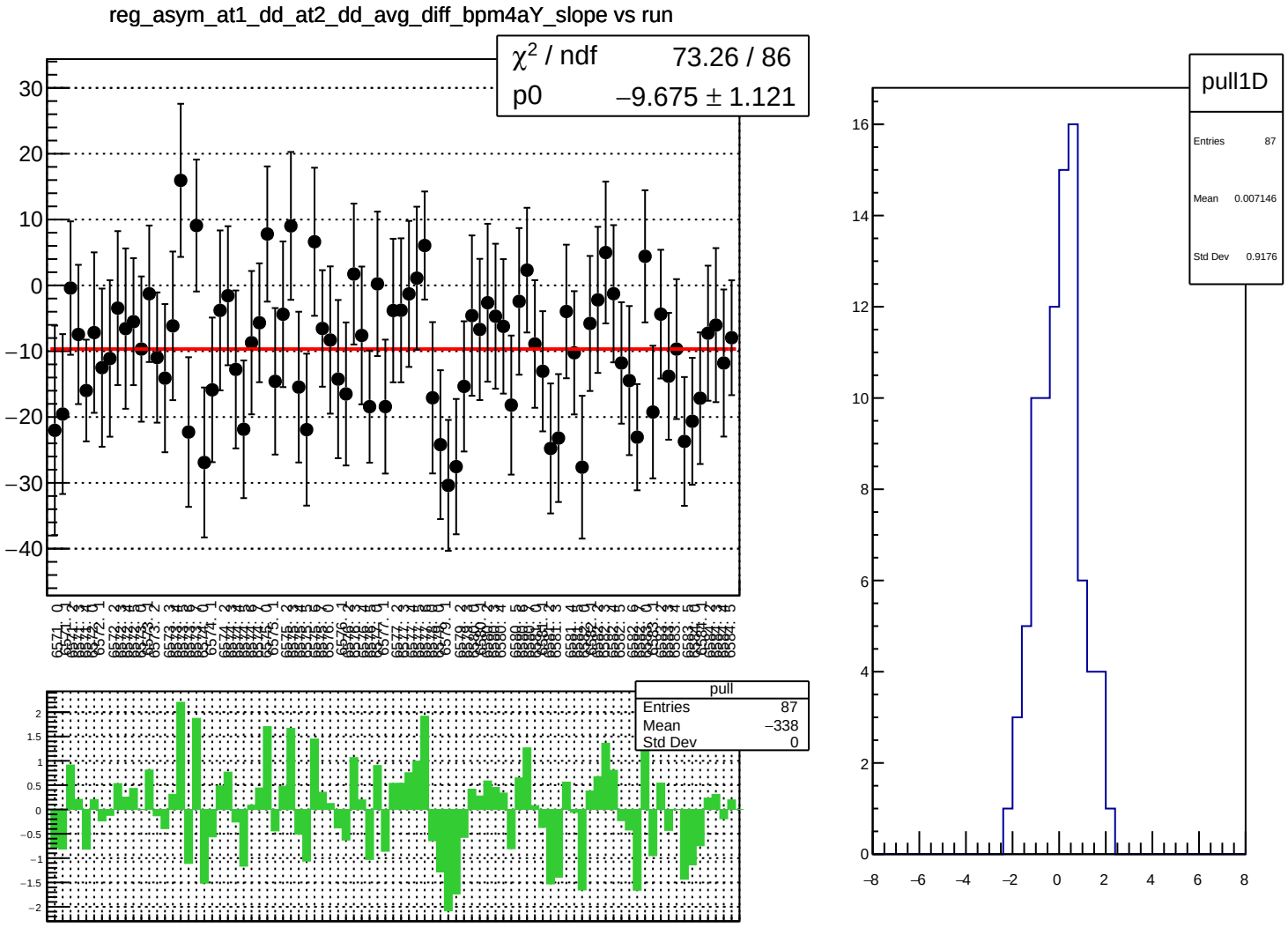

pull1D
Entries 87
Mean −0.01647
Std Dev 0.8045

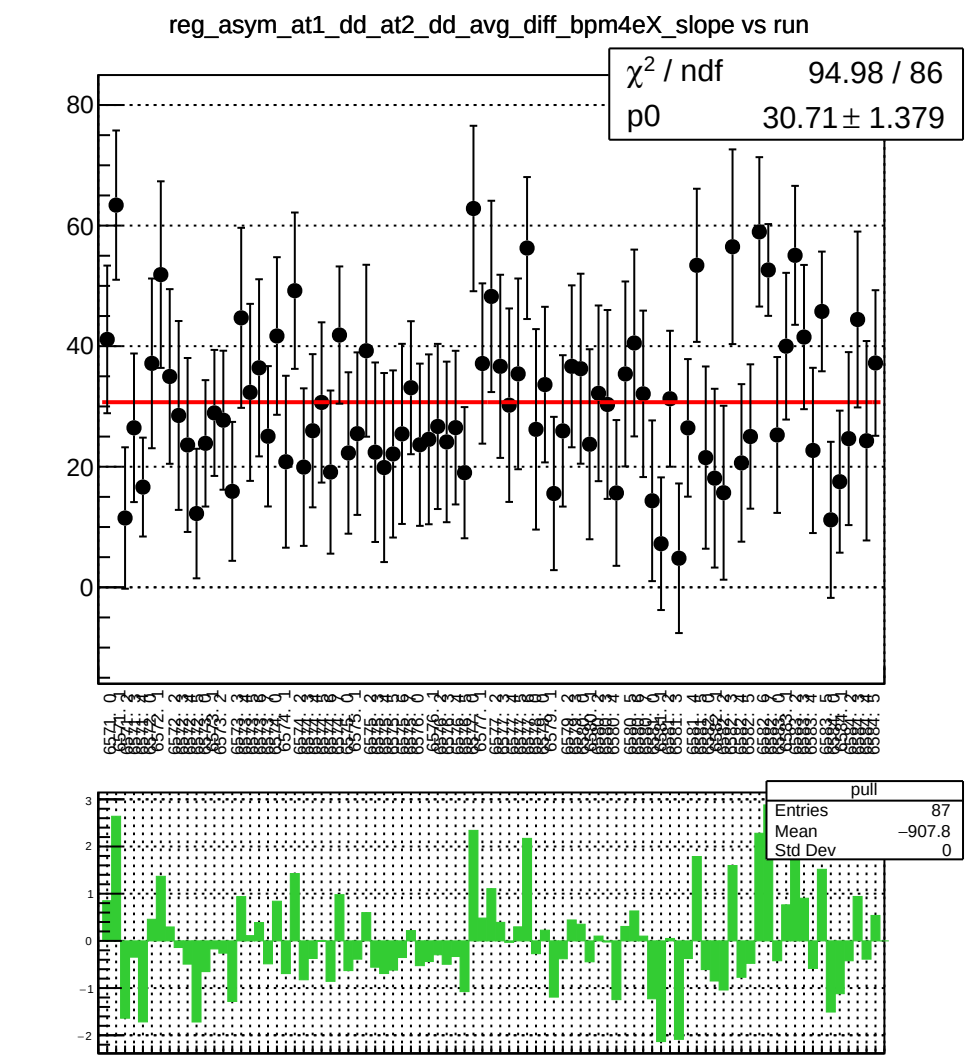

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 81.01 / 86
p0 2.396 ± 1.326
pull
Entries 87
Mean −962.9
Std Dev 0
pull1D
Entries 87
Mean 0.002379
Std Dev 0.9649

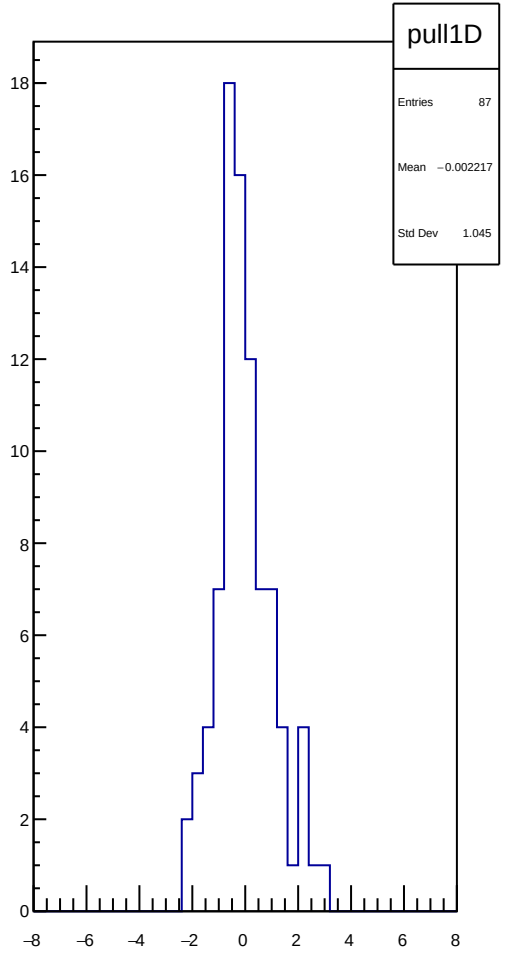

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.28 / 86
p0 0.6428 ± 1.292
pull
Entries 87
Mean −216.9
Std Dev 0
pull1D
Entries 87
Mean 0.01766
Std Dev 0.8041

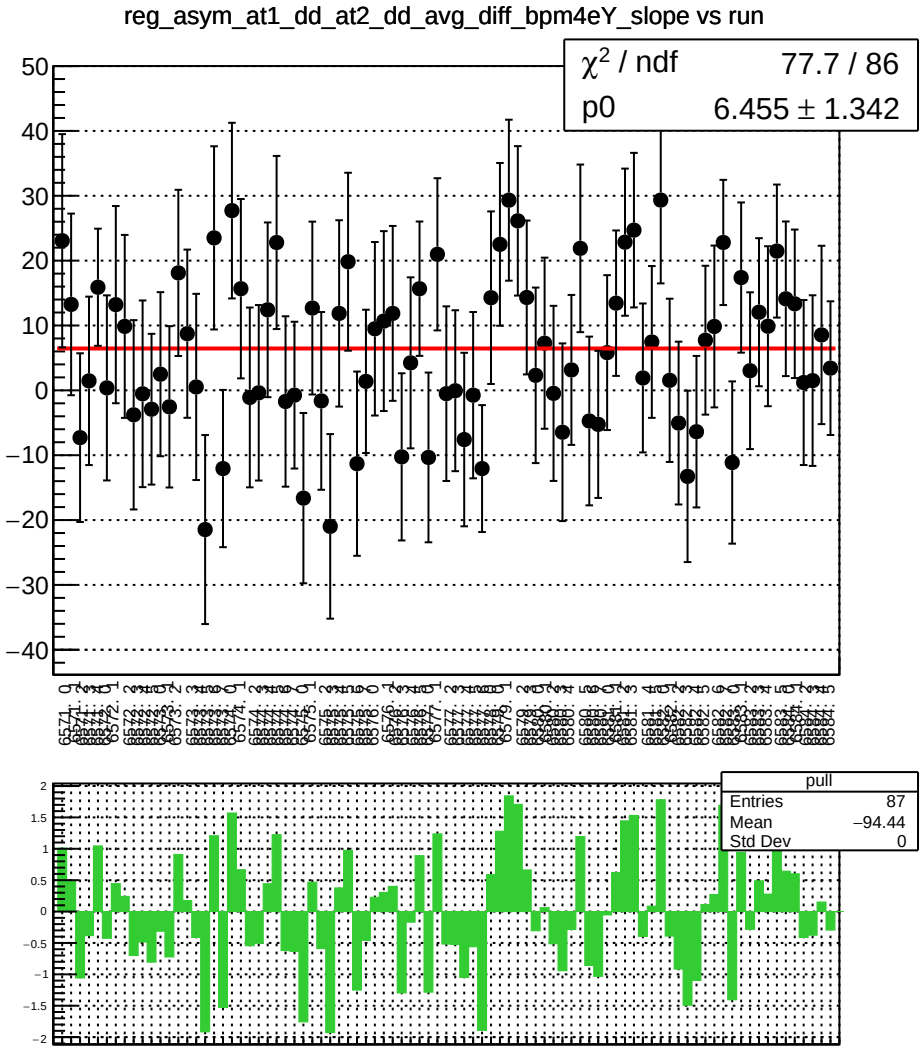

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 138 / 86
p0 −11.59 ± 0.0587
pull
Entries 87
Mean 62.61
Std Dev 0
pull1D
Entries 87
Mean −0.028
Std Dev 1.259

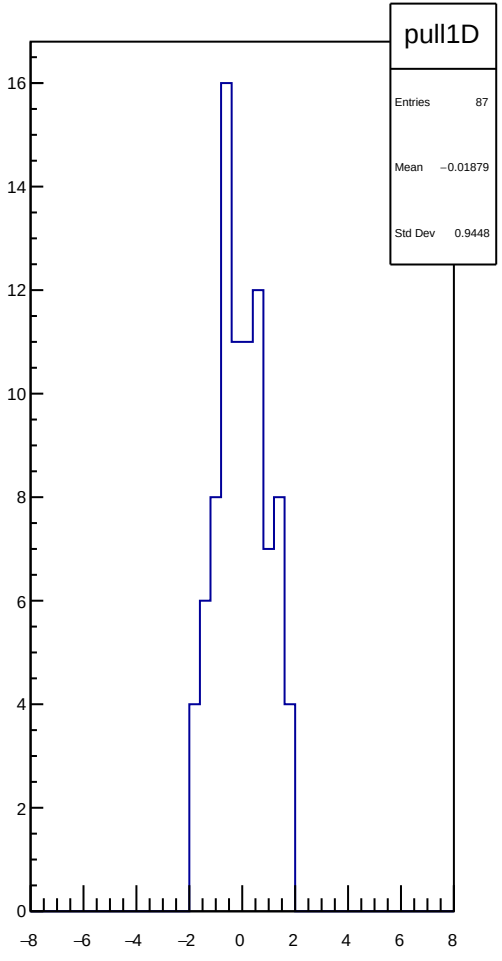

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 92.78 / 86
p0 34.89 ± 1.341
pull
Entries 87
Mean −322.1
Std Dev 0
pull1D
Entries 87
Mean 0.006954
Std Dev 1.033

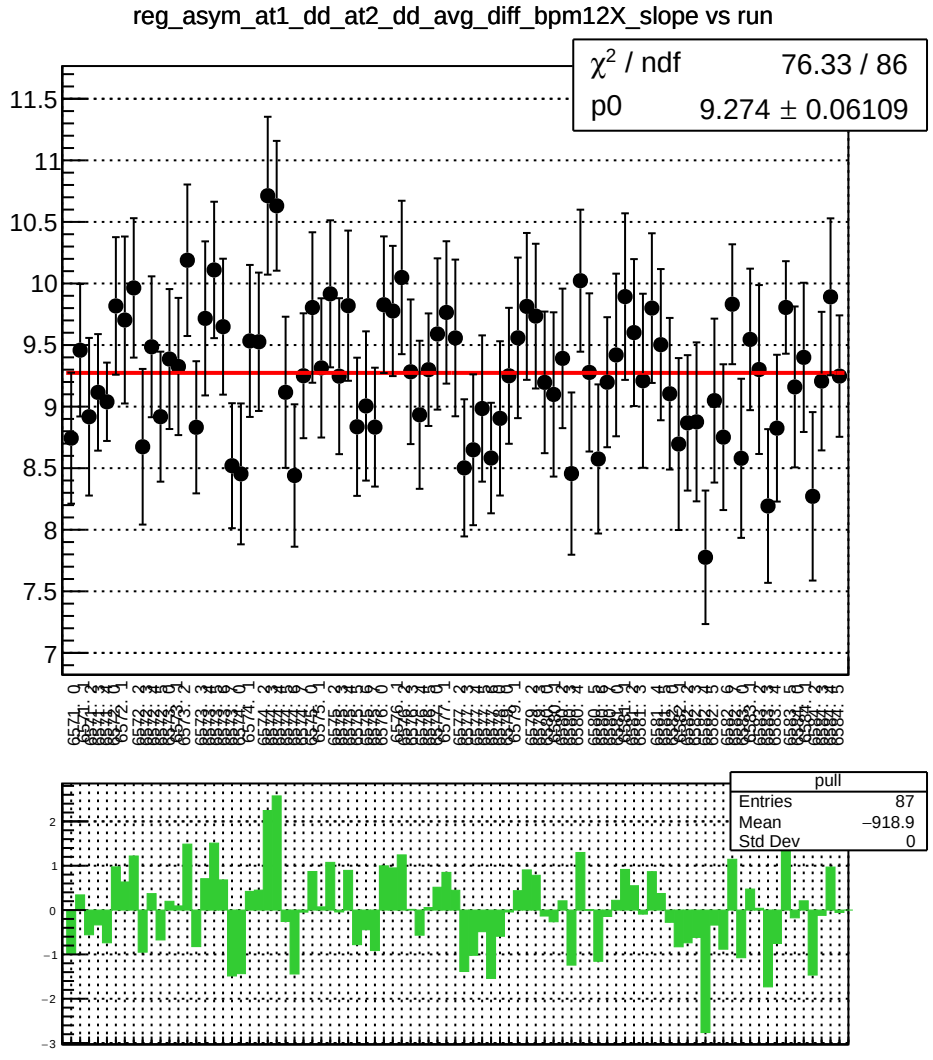

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.26 / 86
p0 −9.675 ± 1.121
pull
Entries 87
Mean −338
Std Dev 0
pull1D
Entries 87
Mean 0.007146
Std Dev 0.9176

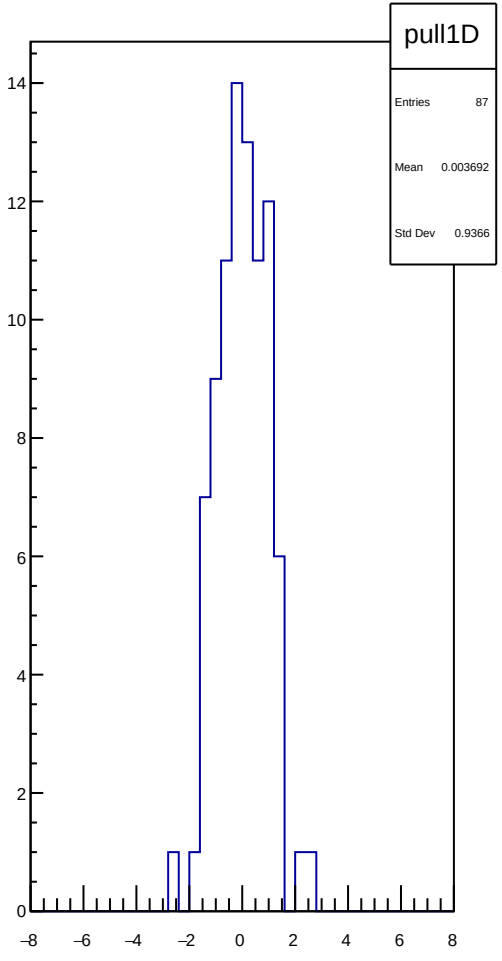

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 94.98 / 86
p0 30.71 ± 1.379
pull
Entries 87
Mean −907.8
Std Dev 0

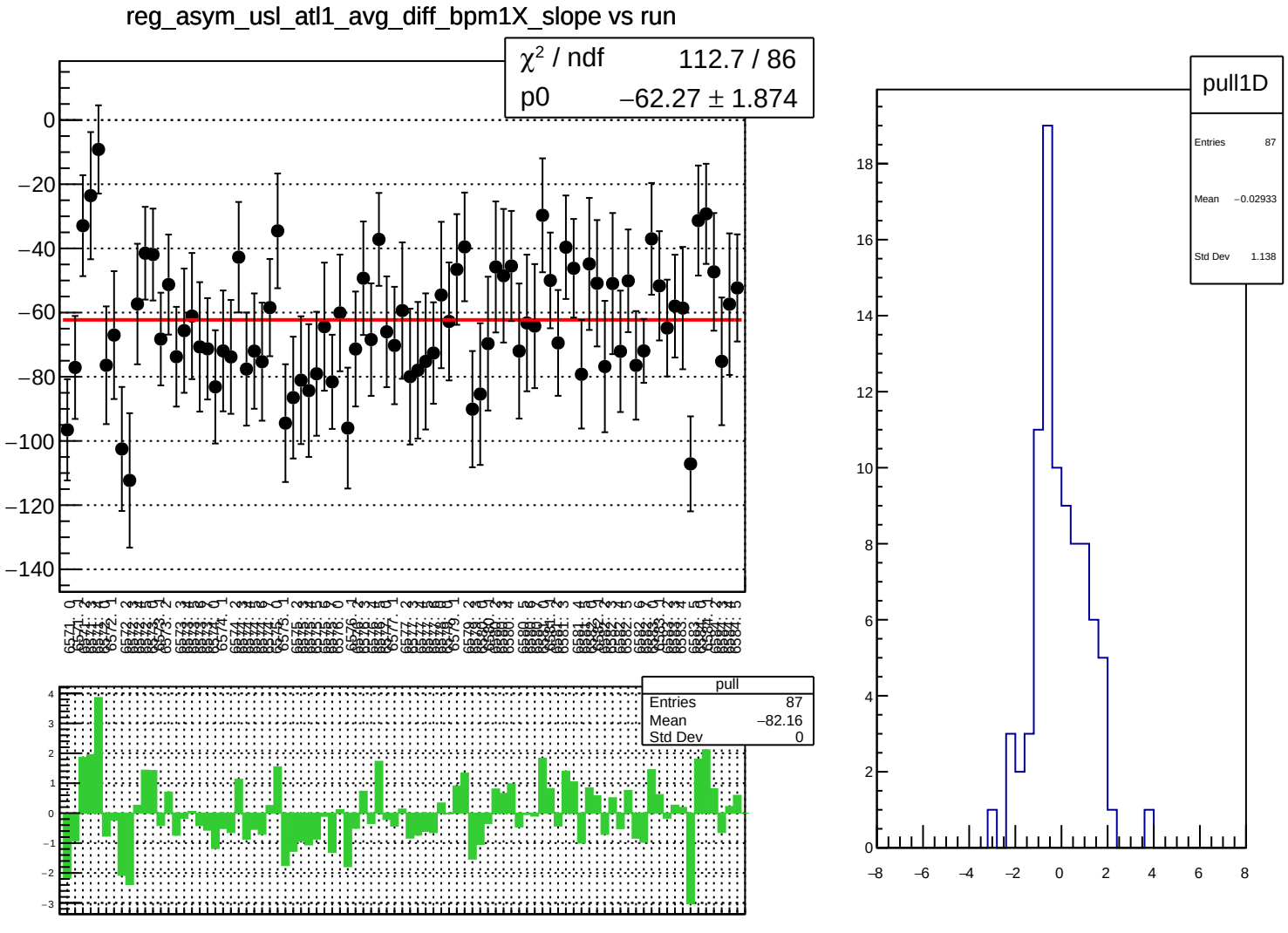

pull1D
Entries 87
Mean −0.002217
Std Dev 1.045

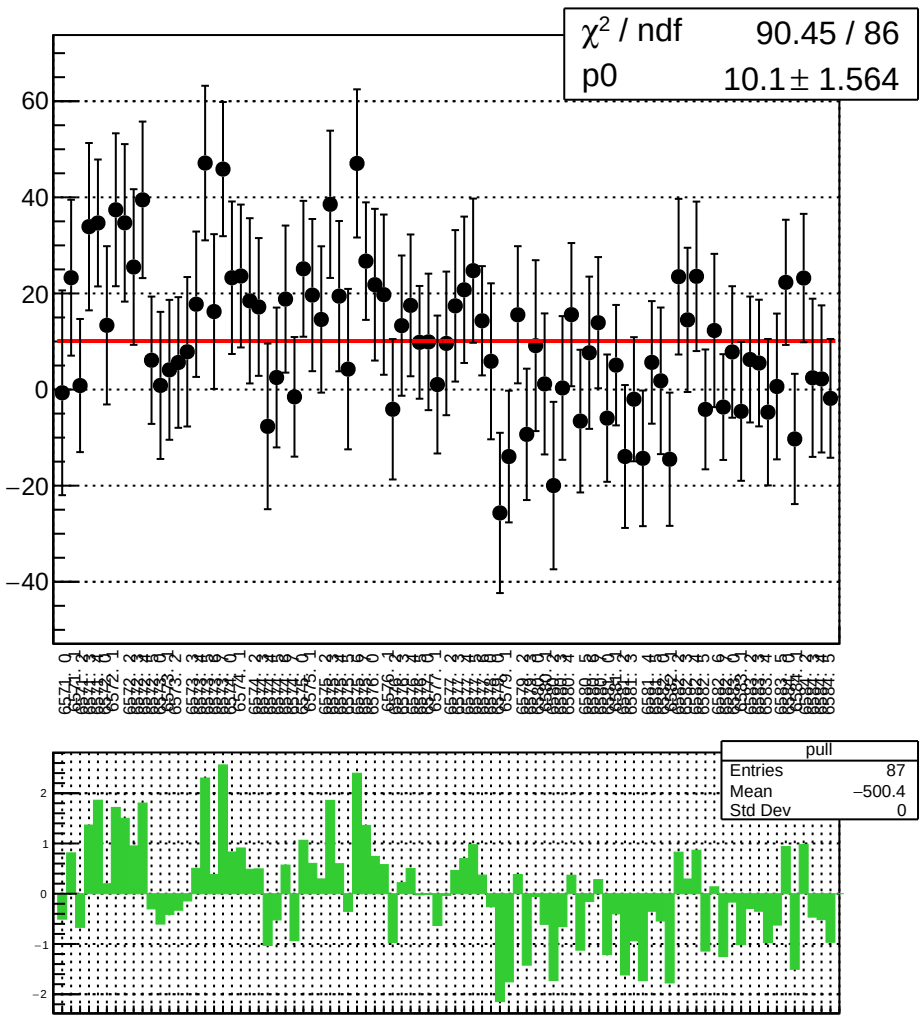

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.7 / 86
p0 6.455 ± 1.342
pull
Entries 87
Mean −94.44
Std Dev 0

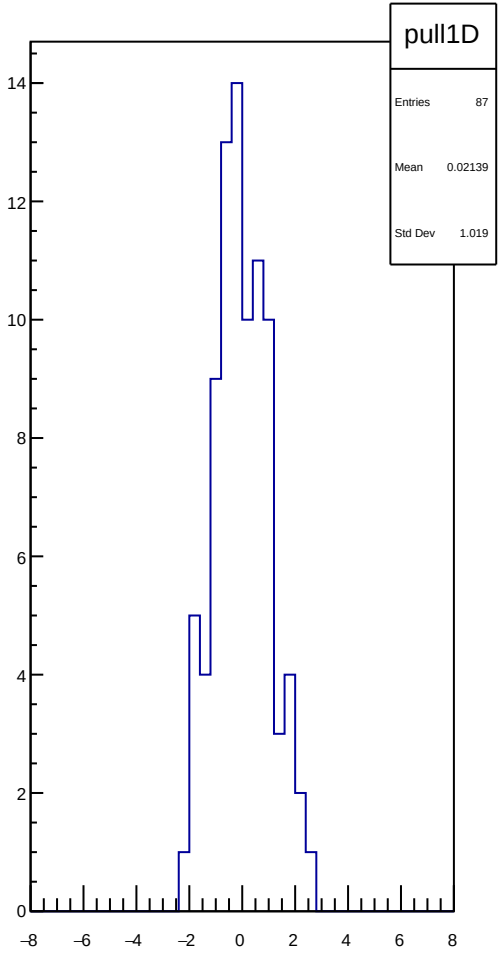

pull1D
Entries 87
Mean −0.01879
Std Dev 0.9448

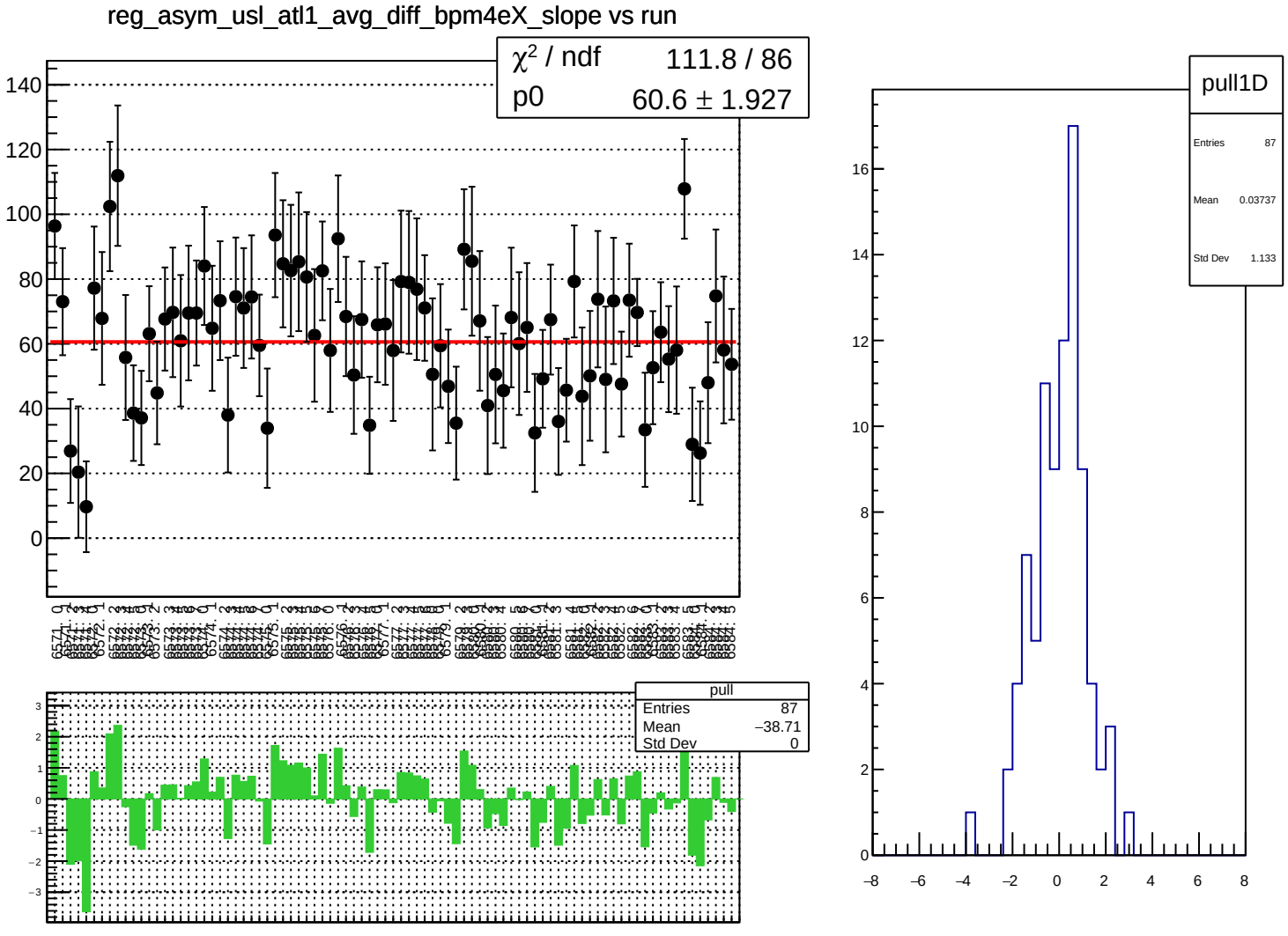

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 76.33 / 86
p0 9.274 ± 0.06109
pull
Entries 87
Mean −918.9
Std Dev 0

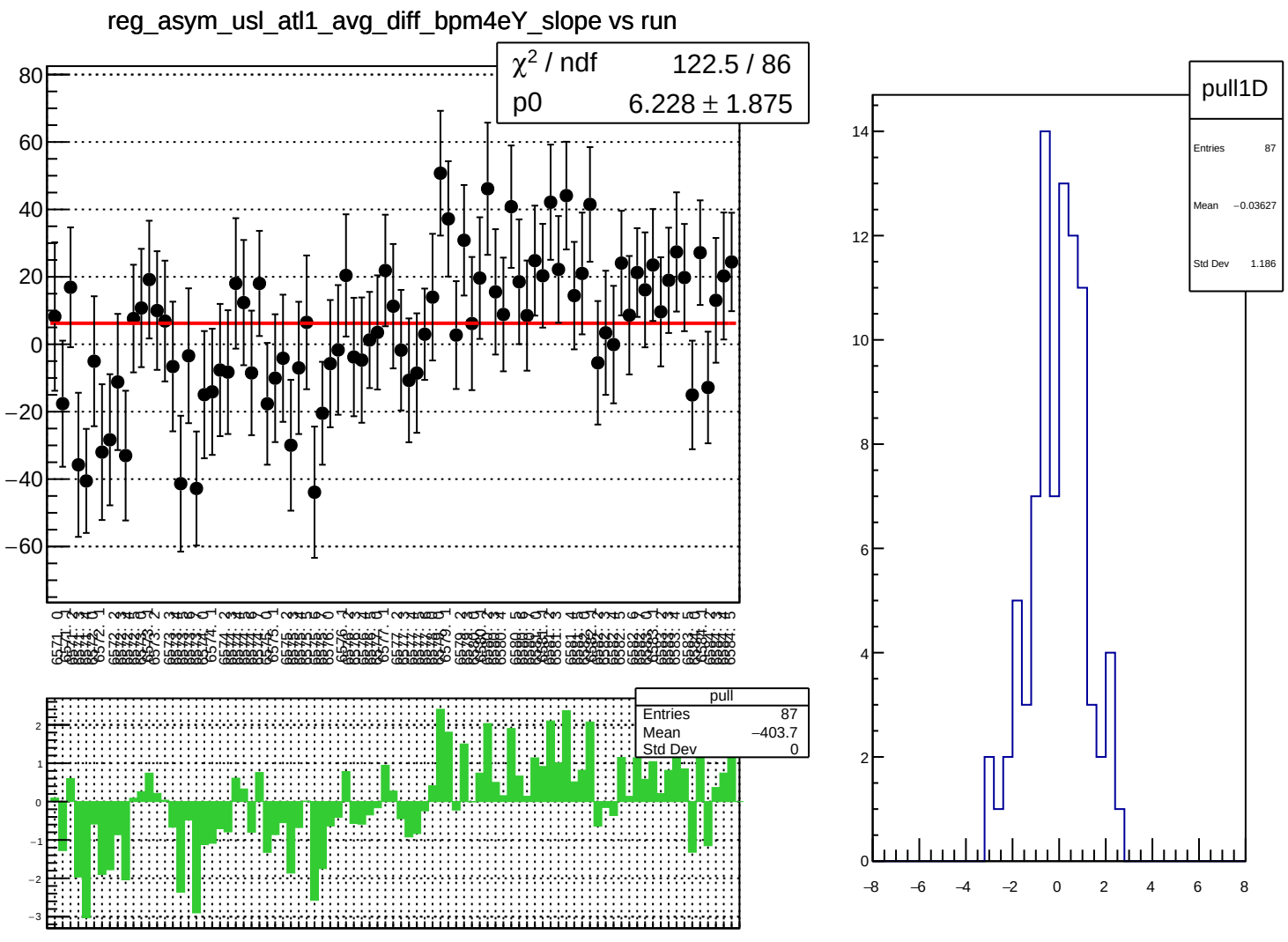

pull1D
Entries 87
Mean 0.003692
Std Dev 0.9366

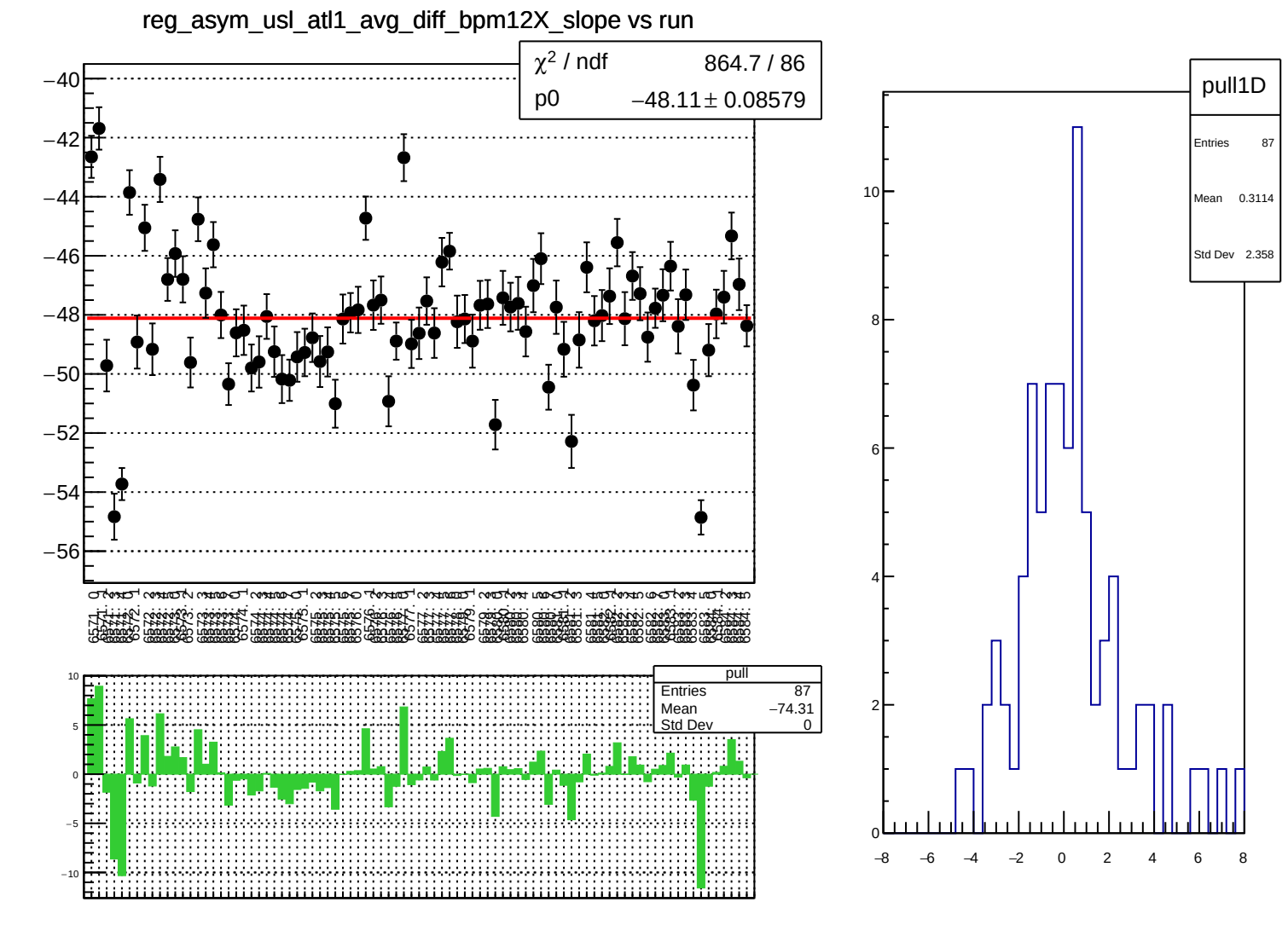

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 112.7 / 86
p0 −62.27 ± 1.874
pull
Entries 87
Mean −82.16
Std Dev 0
pull1D
Entries 87
Mean −0.02933
Std Dev 1.138

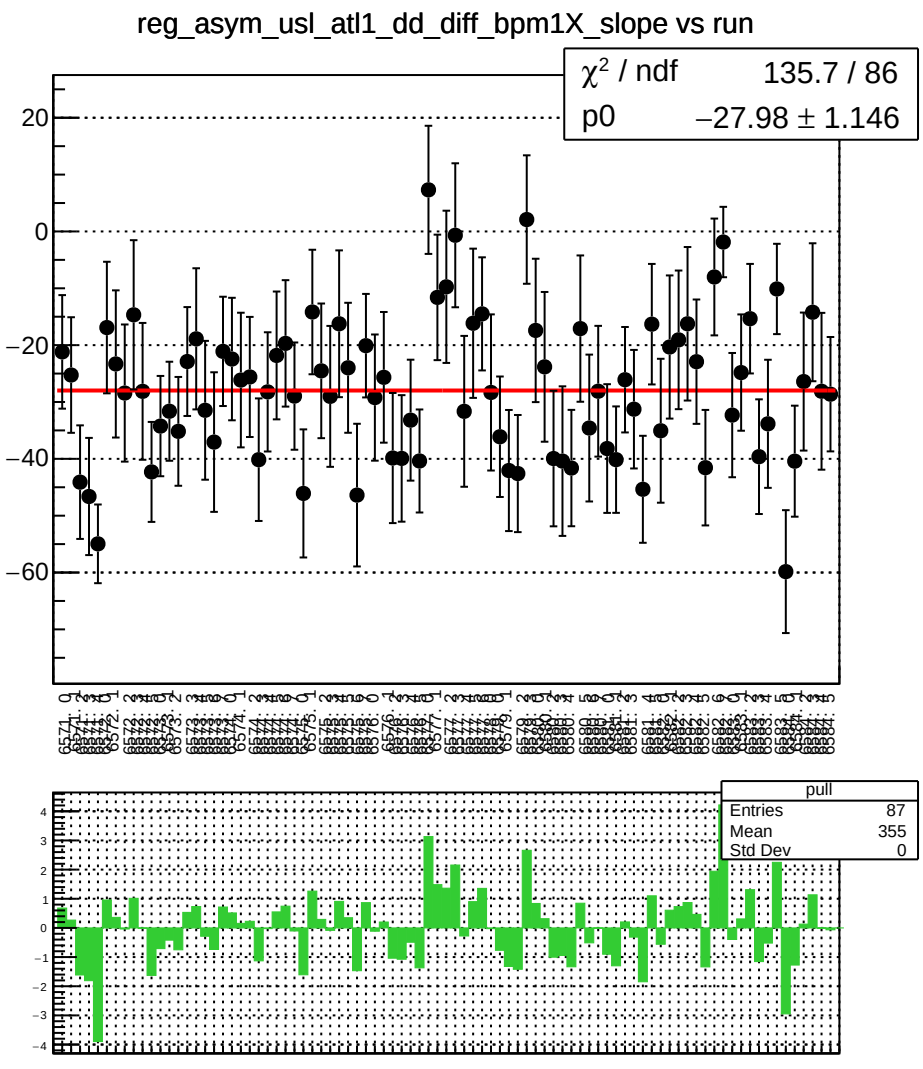

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.45 / 86
p0 10.1 ± 1.564
pull
Entries 87
Mean −500.4
Std Dev 0

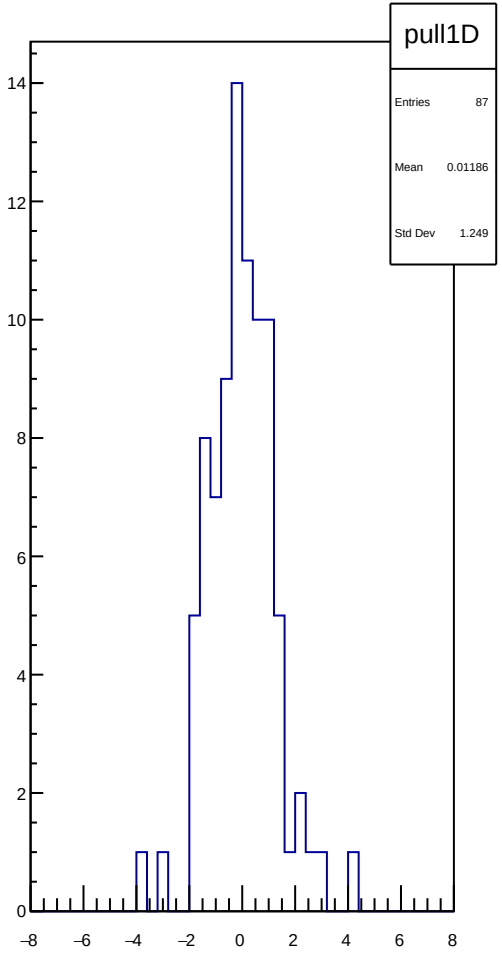

pull1D
Entries 87
Mean 0.02139
Std Dev 1.019

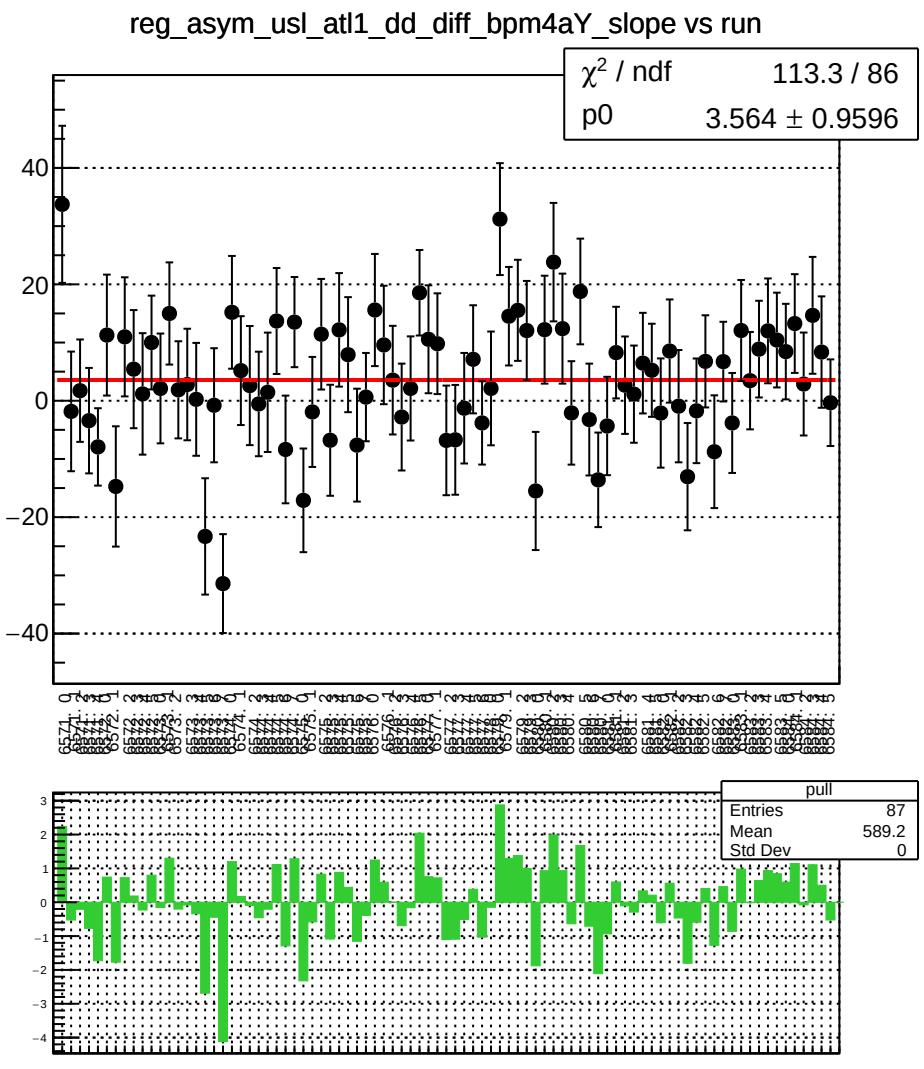

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 111.8 / 86
p0 60.6 ± 1.927
pull
Entries 87
Mean −38.71
Std Dev 0
pull1D
Entries 87
Mean 0.03737
Std Dev 1.133

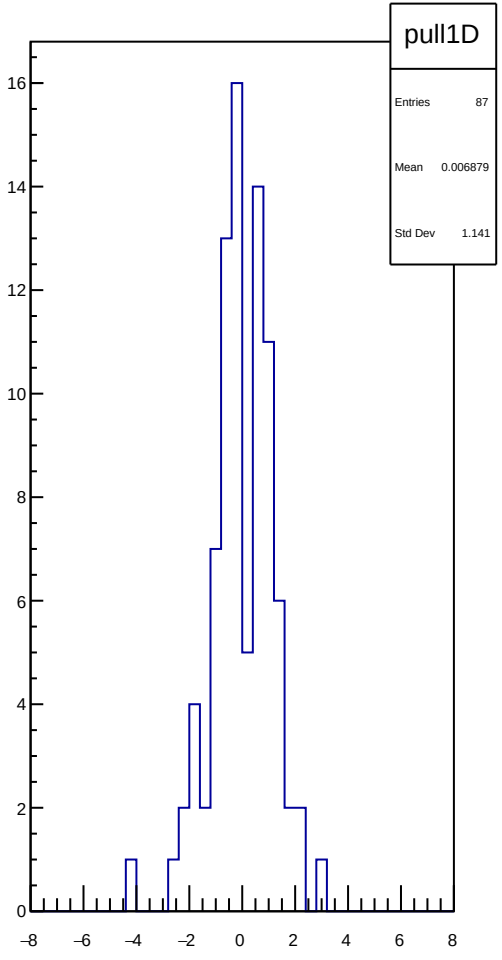

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 122.5 / 86
p0 6.228 ± 1.875
pull
Entries 87
Mean −403.7
Std Dev 0
pull1D
Entries 87
Mean −0.03627
Std Dev 1.186

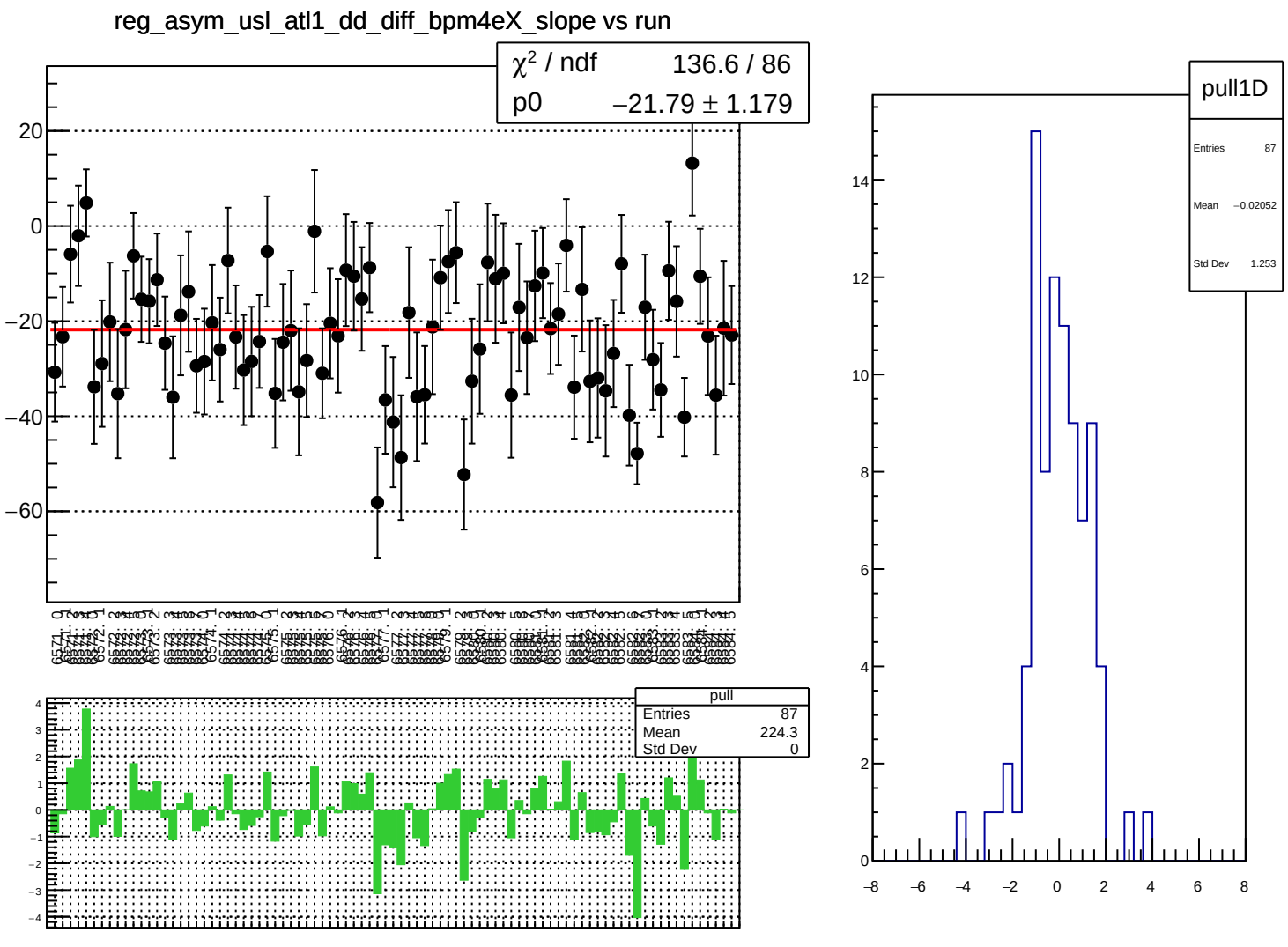

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 864.7 / 86
p0 −48.11 ± 0.08579
pull
Entries 87
Mean −74.31
Std Dev 0
pull1D
Entries 87
Mean 0.3114
Std Dev 2.358

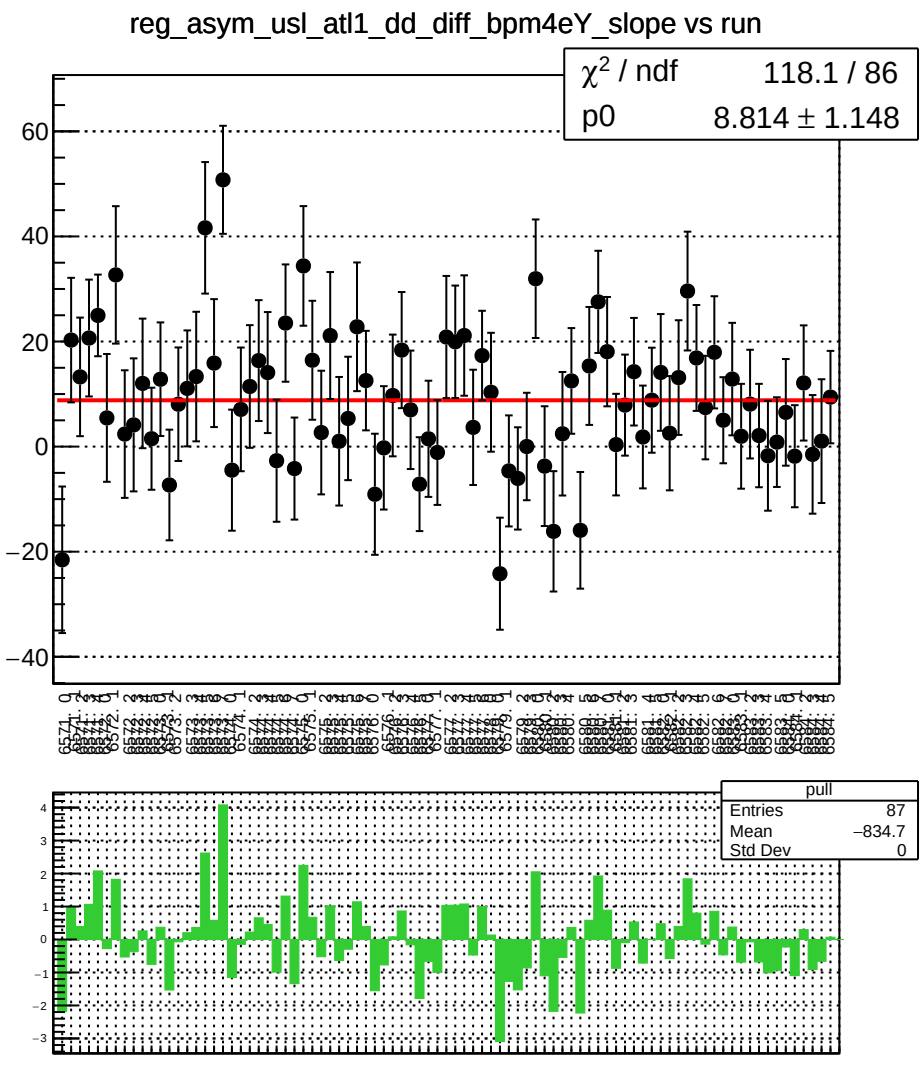

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 135.7 / 86
p0 −27.98 ± 1.146
pull
Entries 87
Mean 355
Std Dev 0

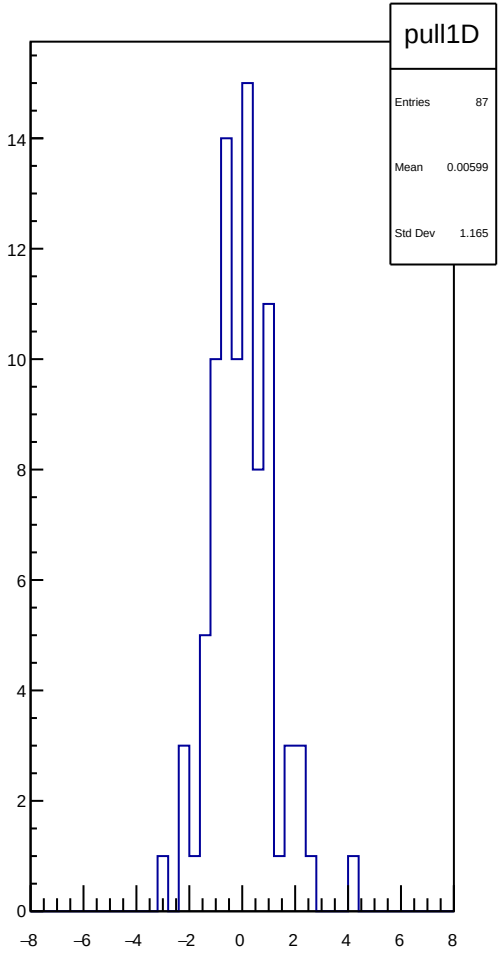

pull1D
Entries 87
Mean 0.01186
Std Dev 1.249

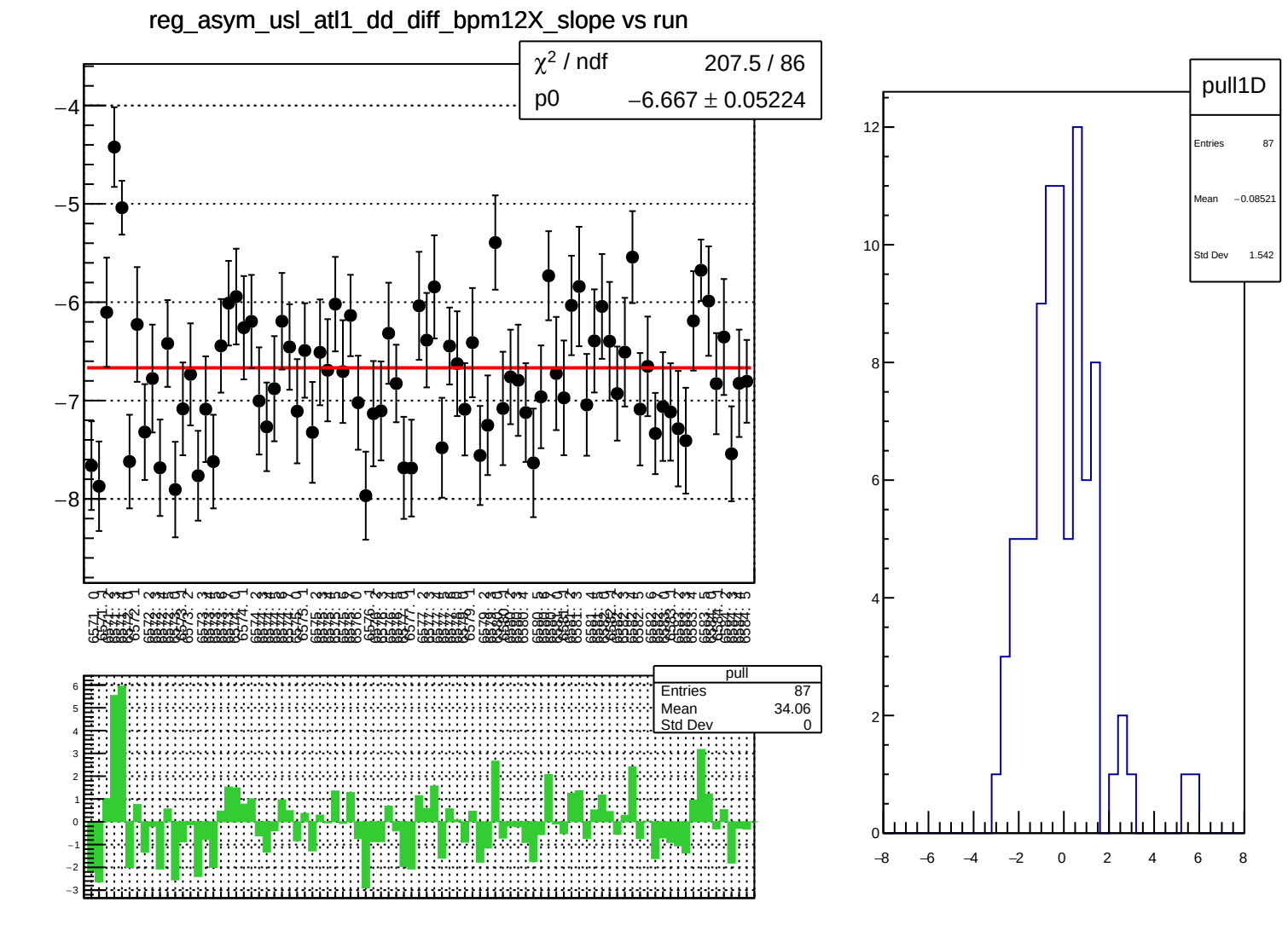

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 113.3 / 86
p0 3.564 ± 0.9596
pull
Entries 87
Mean 589.2
Std Dev 0

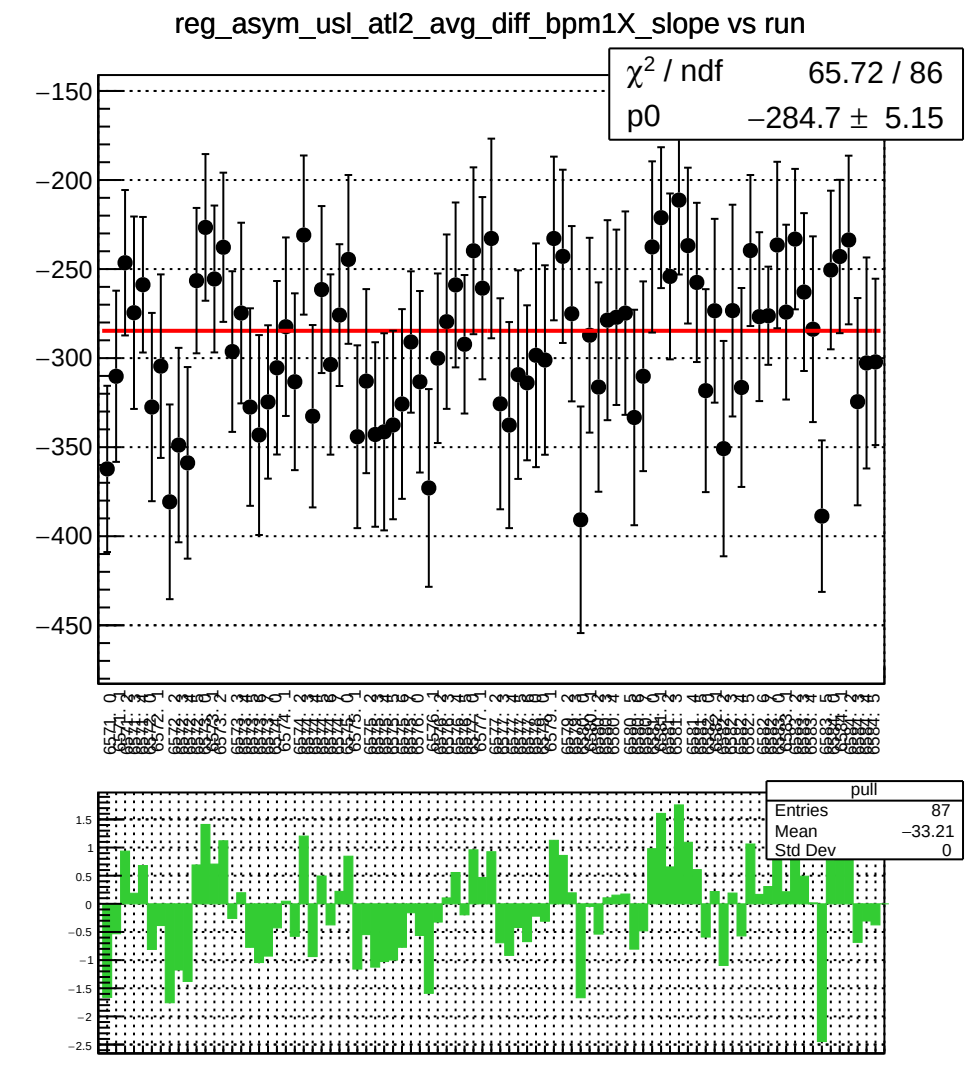

pull1D
Entries 87
Mean 0.006879
Std Dev 1.141

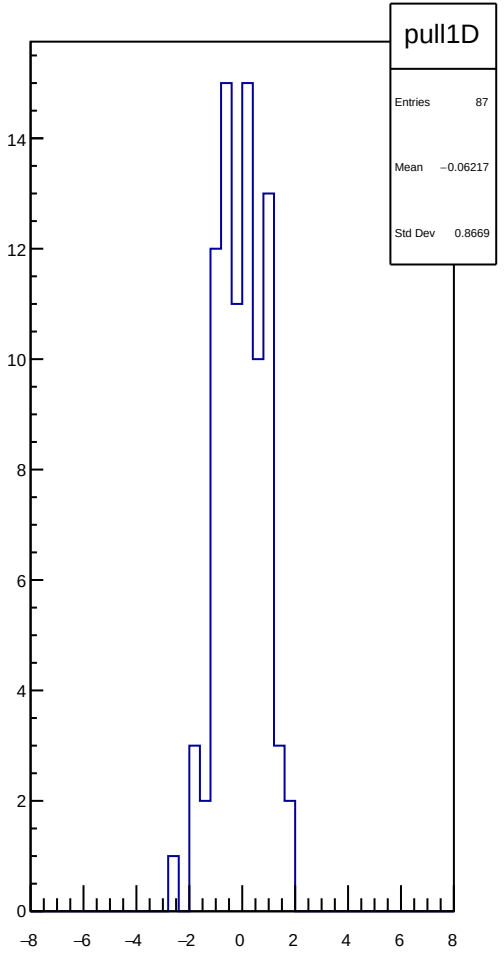

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 136.6 / 86
p0 −21.79 ± 1.179
20
0
−20
−40
−60
pull
Entries 87
Mean 224.3
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 87
Mean −0.02052
Std Dev 1.253
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

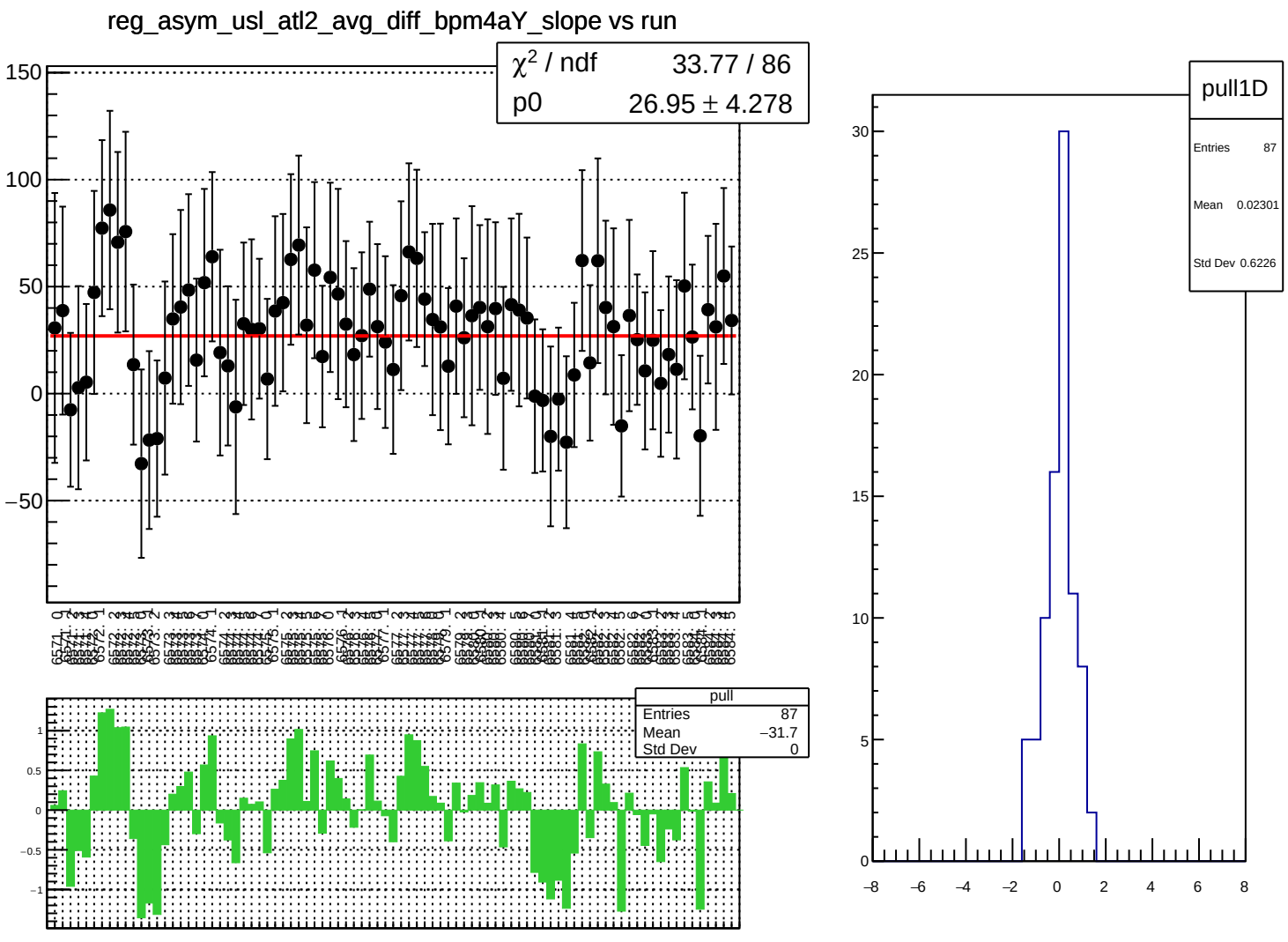

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 118.1 / 86
p0 8.814 ± 1.148
pull
Entries 87
Mean −834.7
Std Dev 0

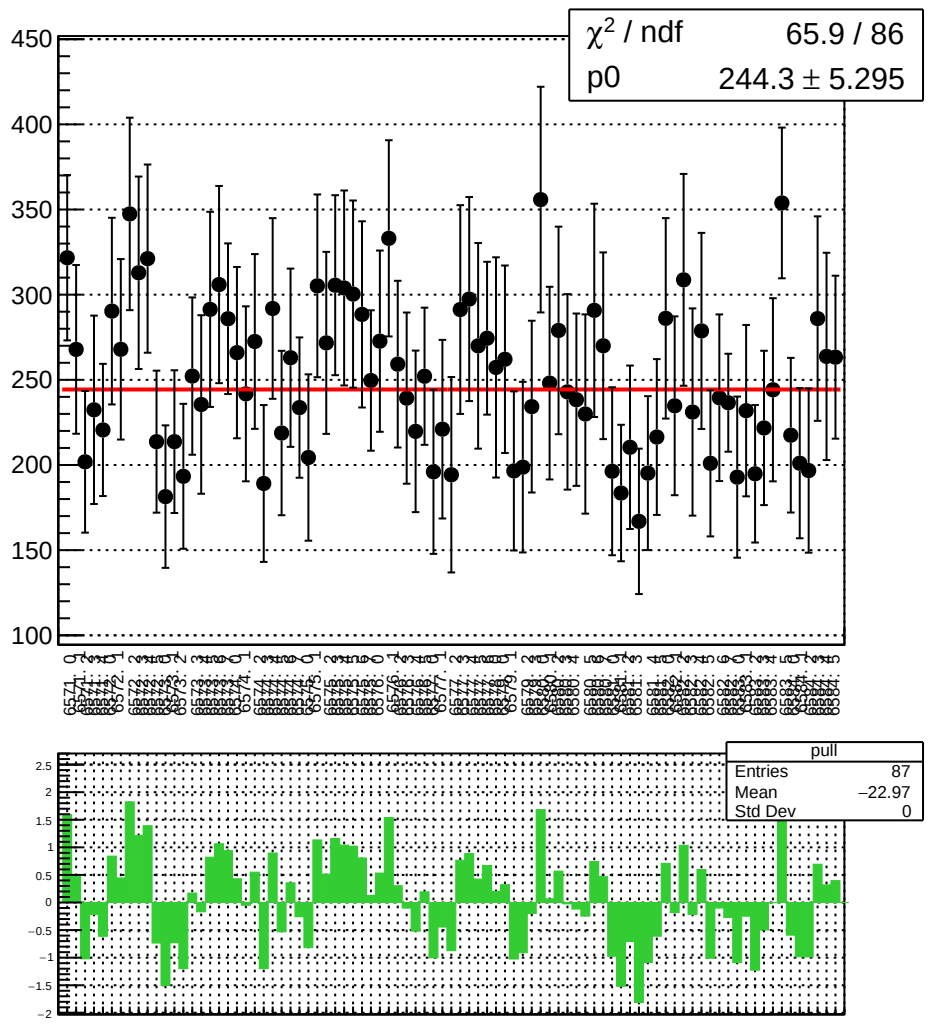

pull1D
Entries 87
Mean 0.00599
Std Dev 1.165

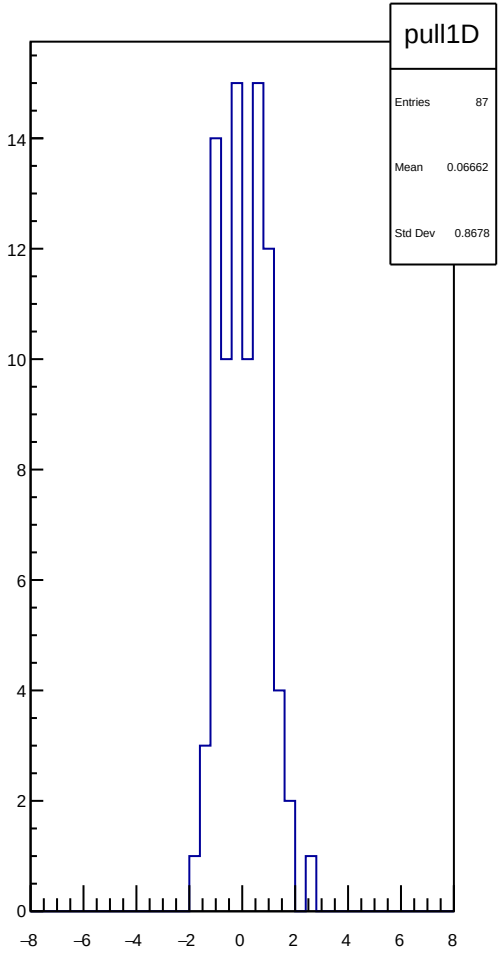

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 207.5 / 86
p0 −6.667 ± 0.05224
pull
Entries 87
Mean 34.06
Std Dev 0
pull1D
Entries 87
Mean −0.08521
Std Dev 1.542

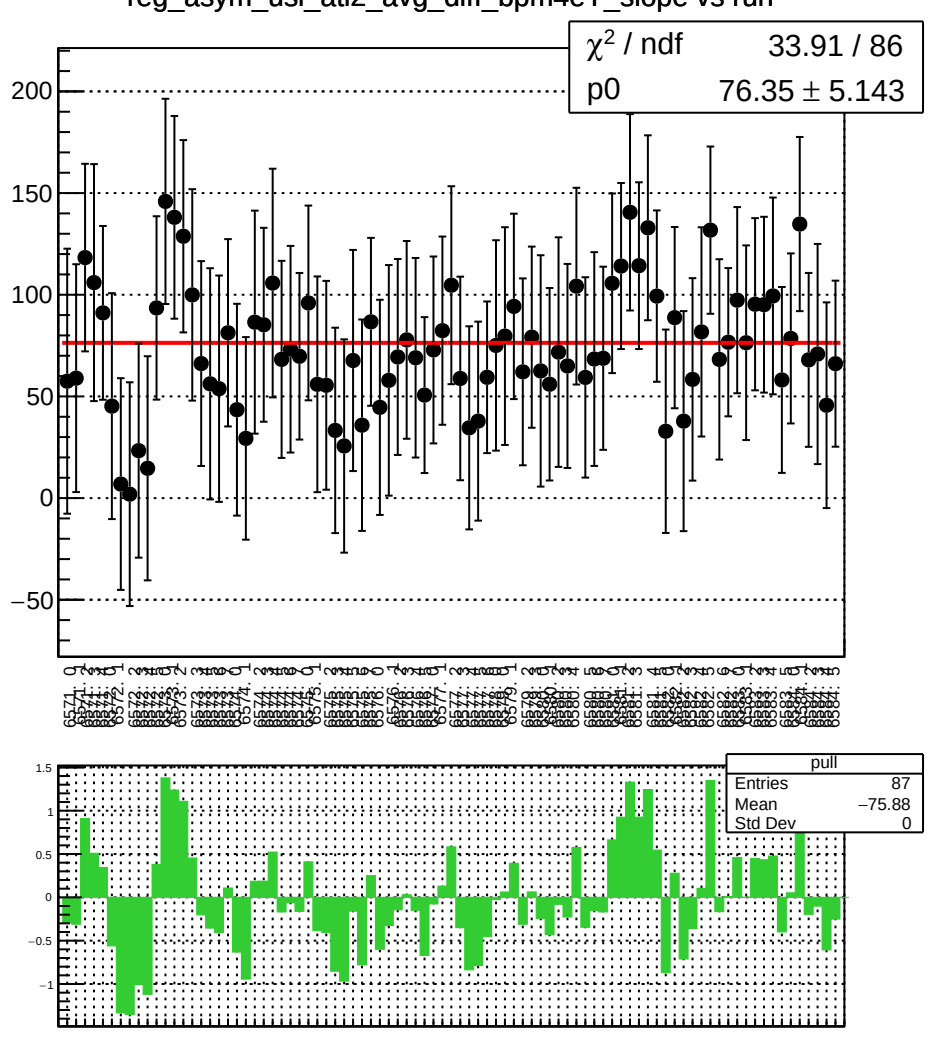

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 65.72 / 86
p0 −284.7 ± 5.15
pull
Entries 87
Mean −33.21
Std Dev 0

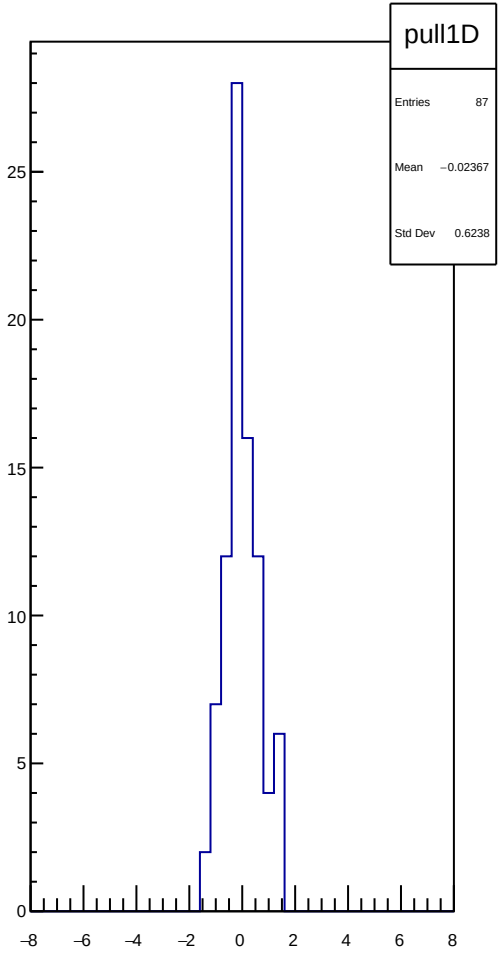

pull1D
Entries 87
Mean −0.06217
Std Dev 0.8669

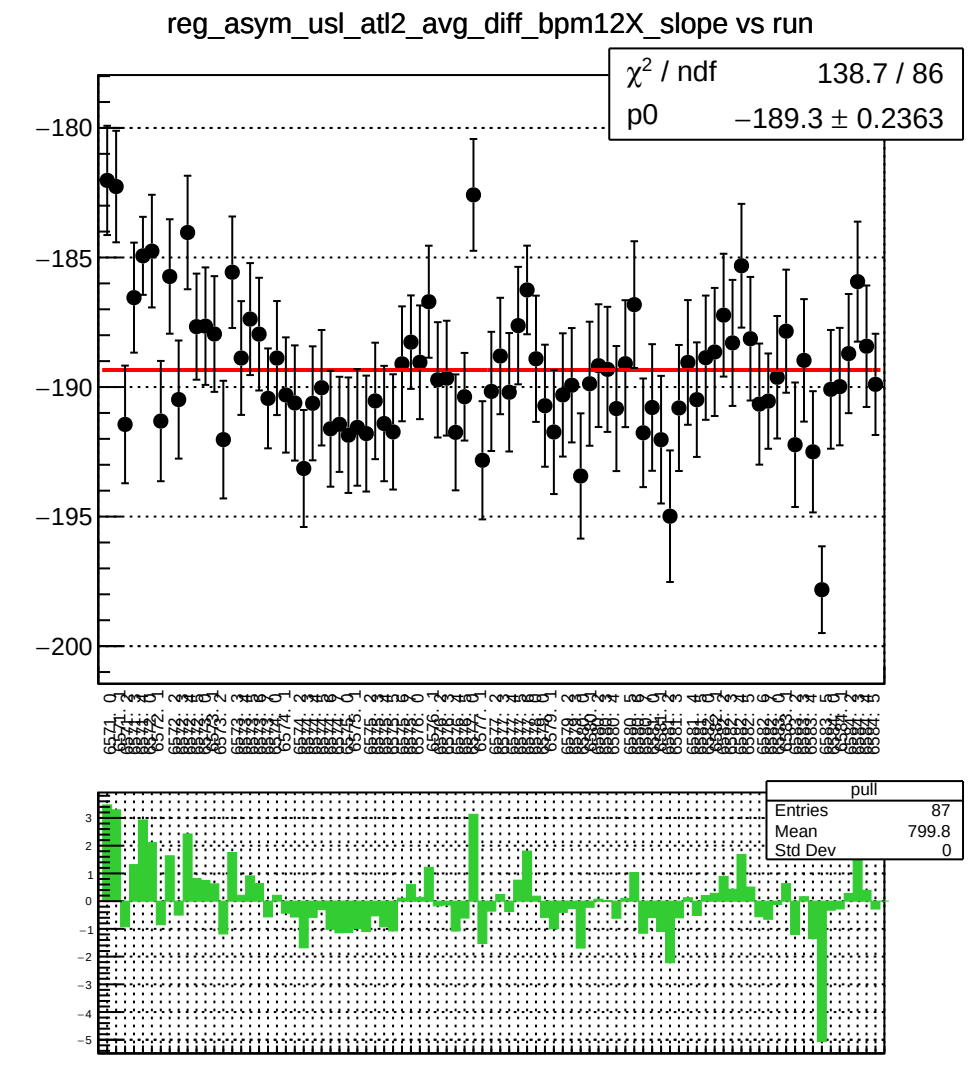

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.77 / 86
p0 26.95 ± 4.278
150
100
50
0
−50
pull
Entries 87
Mean −31.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.02301
Std Dev 0.6226
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

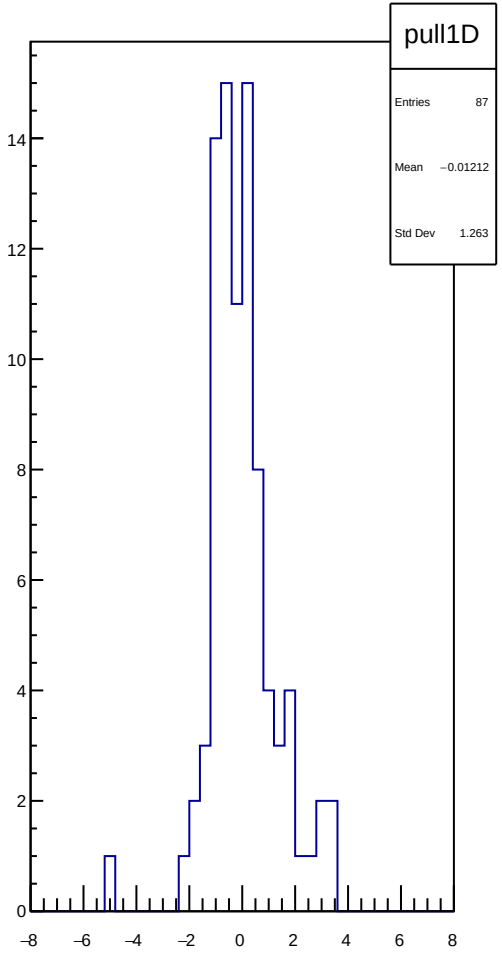

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.9 / 86
p0 244.3 ± 5.295
pull
Entries 87
Mean −22.97
Std Dev 0

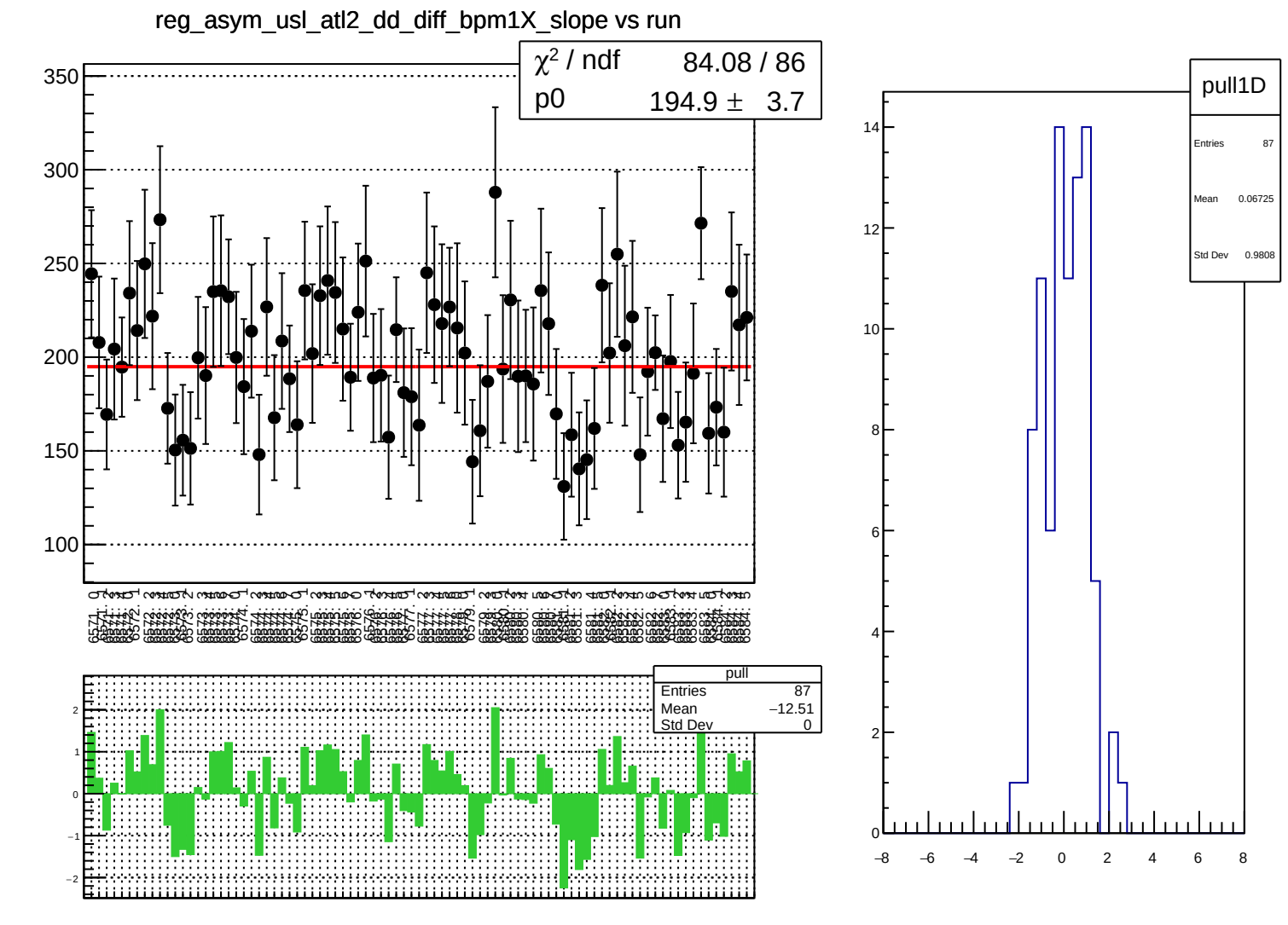

pull1D
Entries 87
Mean 0.06662
Std Dev 0.8678

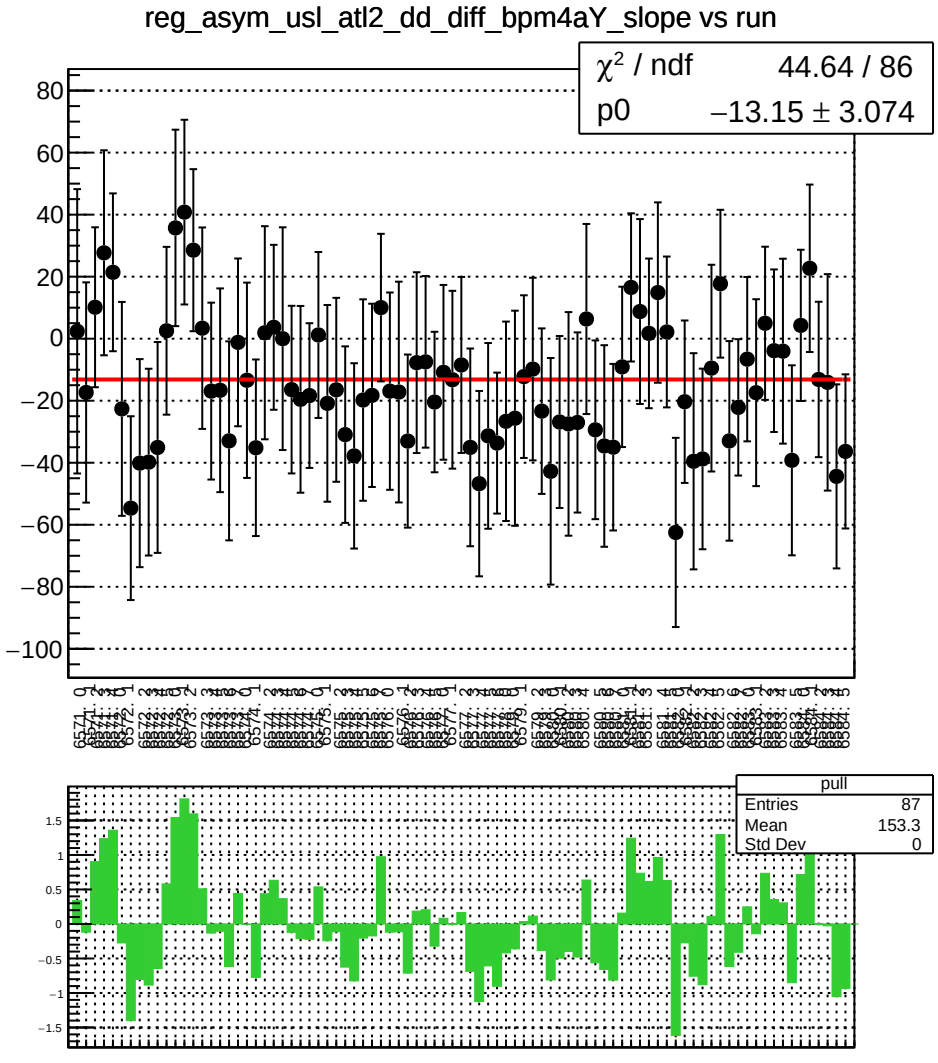

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.91 / 86
p0 76.35 ± 5.143
pull
Entries 87
Mean −75.88
Std Dev 0

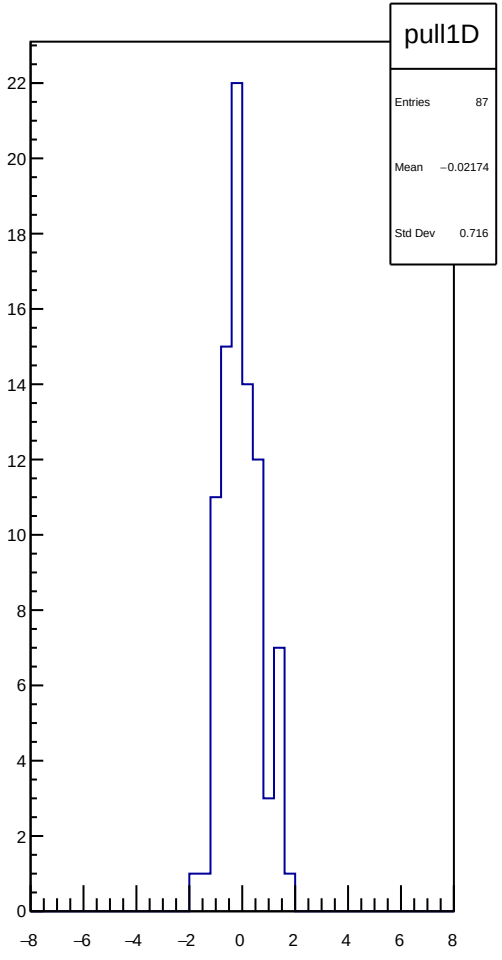

pull1D
Entries 87
Mean −0.02367
Std Dev 0.6238

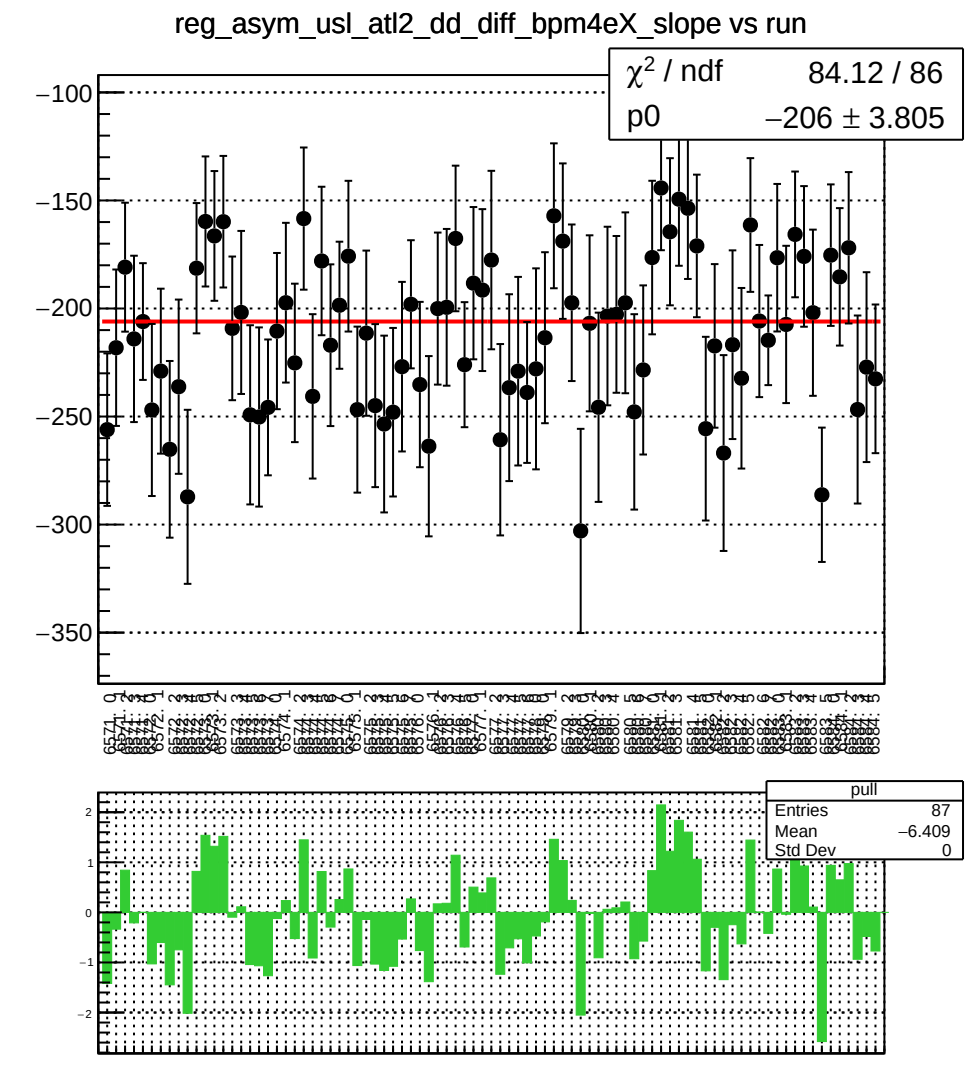

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 138.7 / 86
p0 −189.3 ± 0.2363
pull
Entries 87
Mean 799.8
Std Dev 0

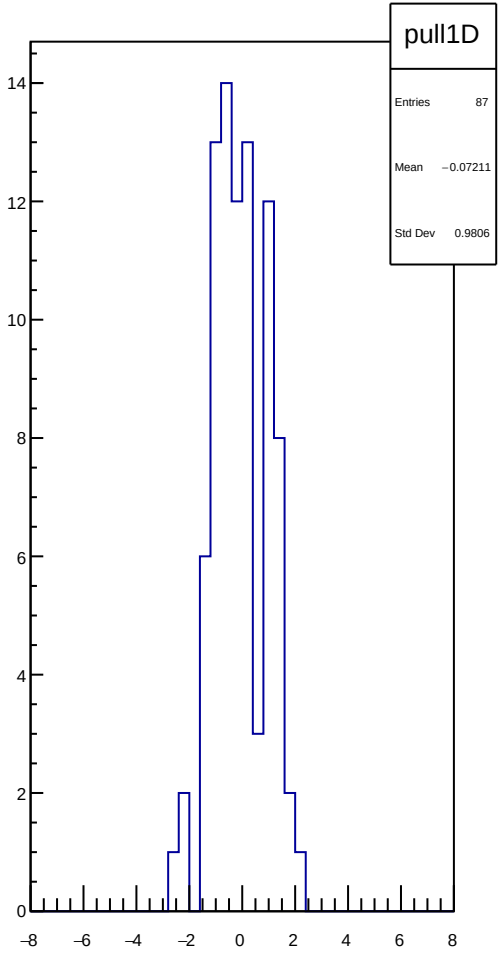

pull1D
Entries 87
Mean −0.01212
Std Dev 1.263

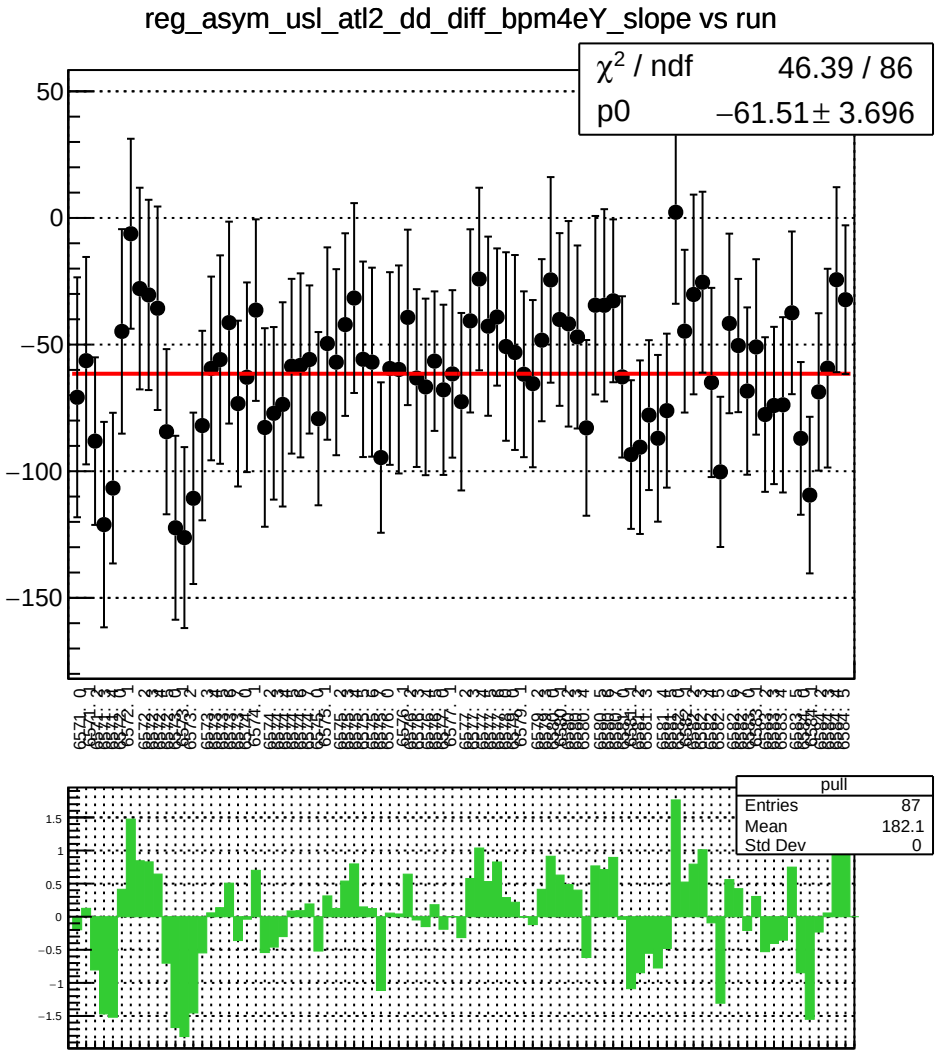

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 84.08 / 86
p0 194.9 ± 3.7
pull
Entries 87
Mean −12.51
Std Dev 0
pull1D
Entries 87
Mean 0.06725
Std Dev 0.9808

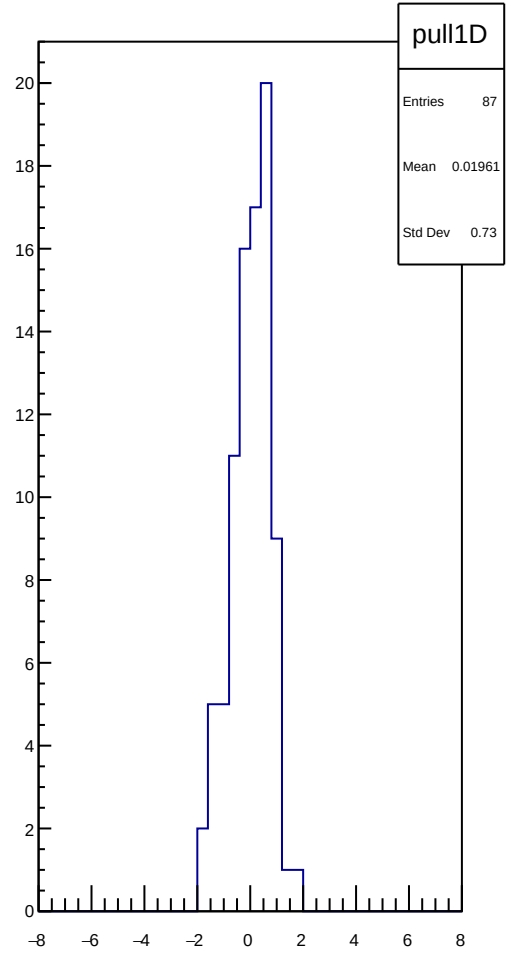

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.64 / 86
p0 −13.15 ± 3.074
pull
Entries 87
Mean 153.3
Std Dev 0

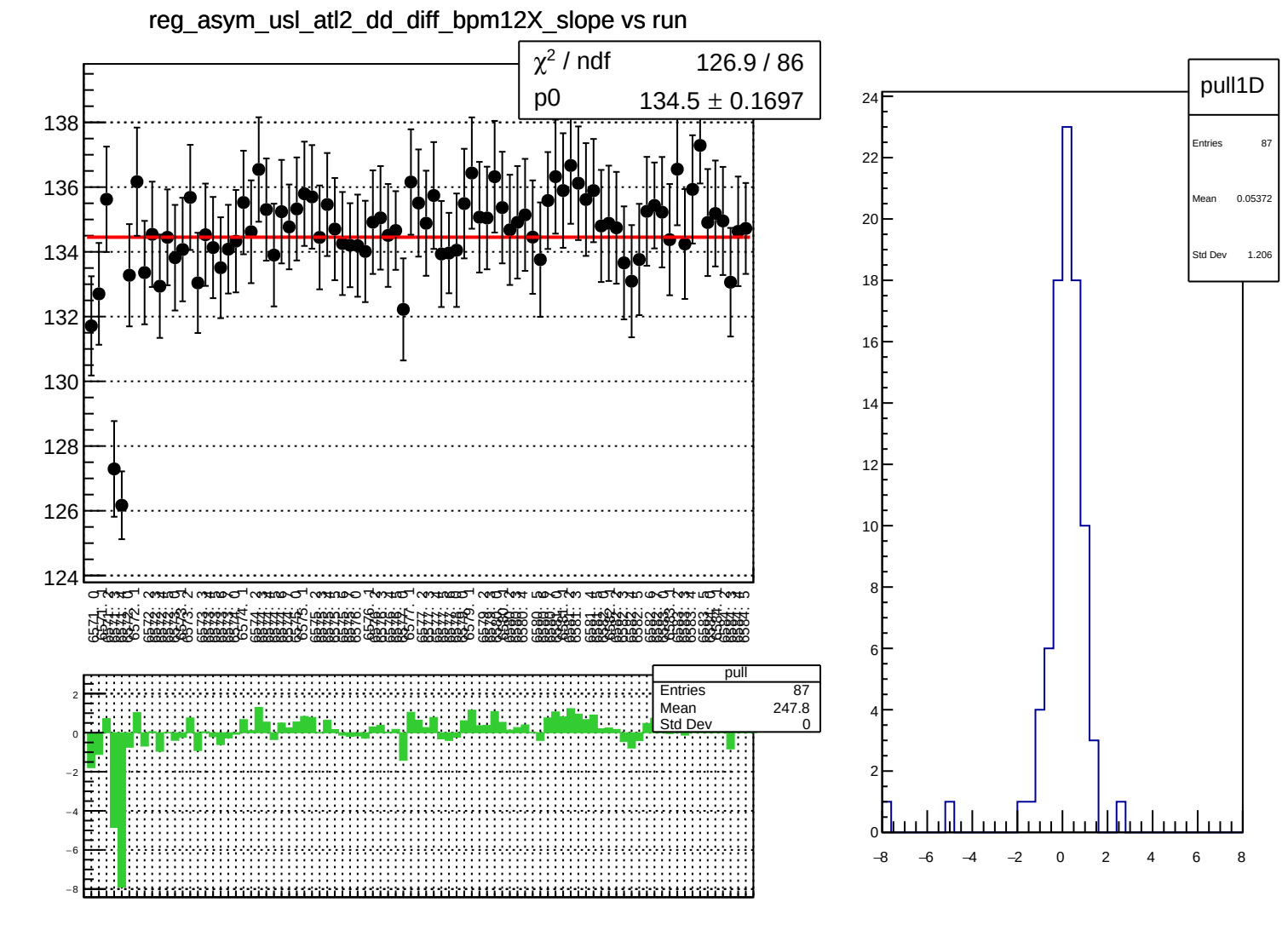

pull1D
Entries 87
Mean −0.02174
Std Dev 0.716

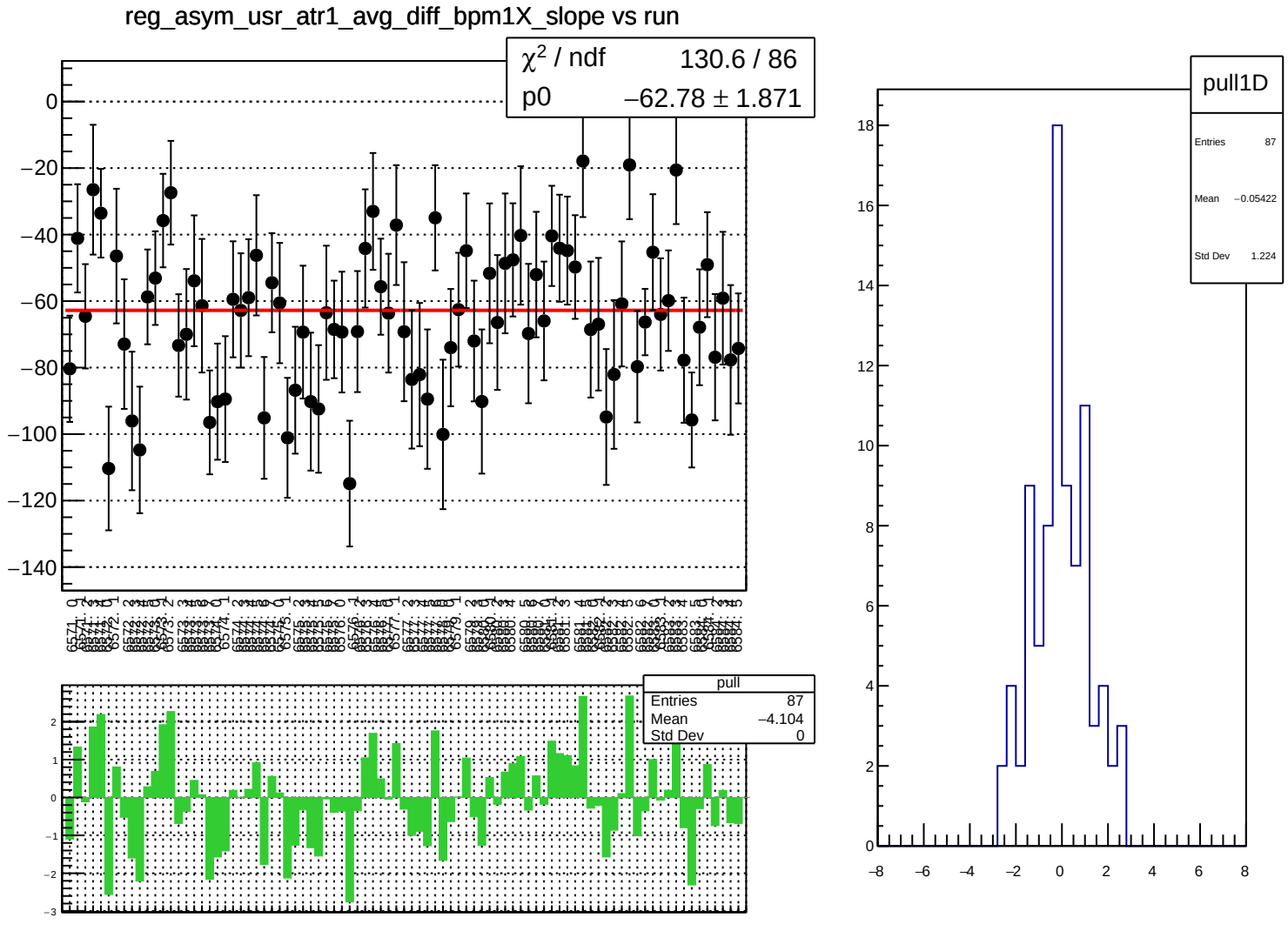

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.12 / 86
p0 −206 ± 3.805
pull
Entries 87
Mean −6.409
Std Dev 0

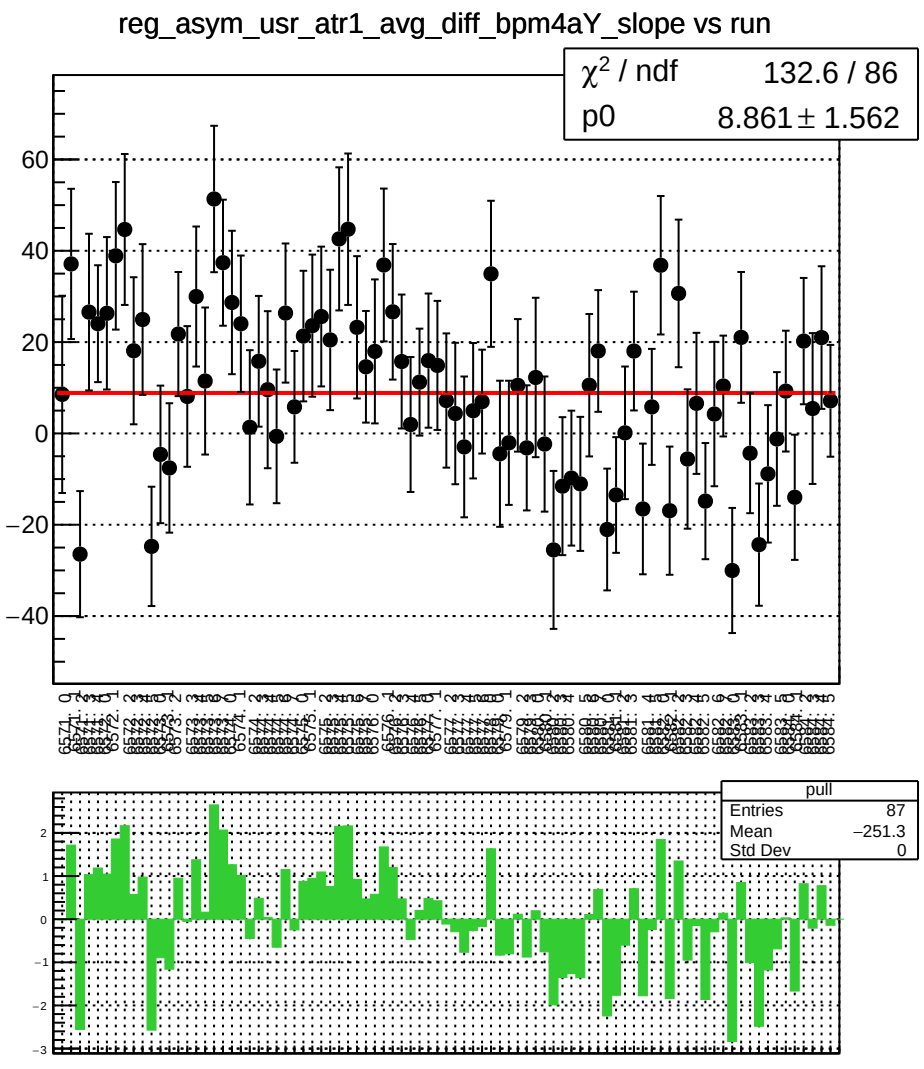

pull1D
Entries 87
Mean −0.07211
Std Dev 0.9806

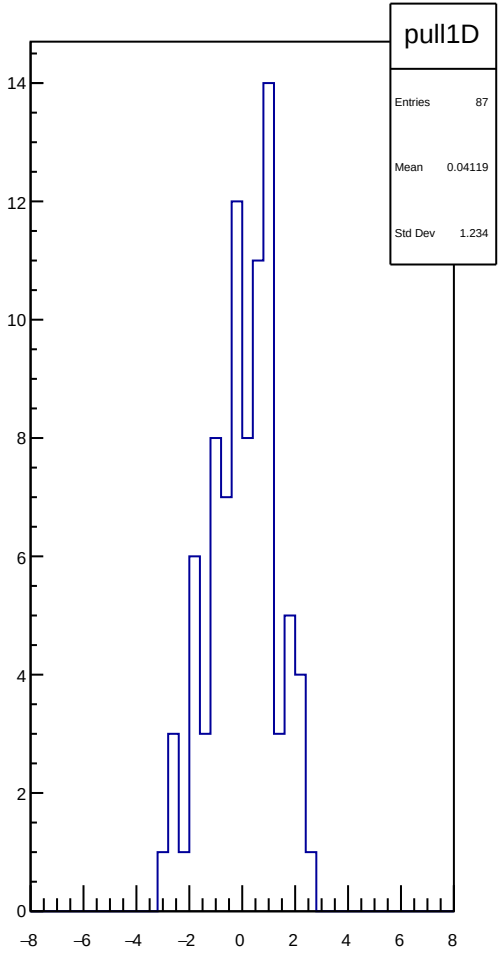

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.39 / 86
p0 −61.51 ± 3.696
pull
Entries 87
Mean 182.1
Std Dev 0

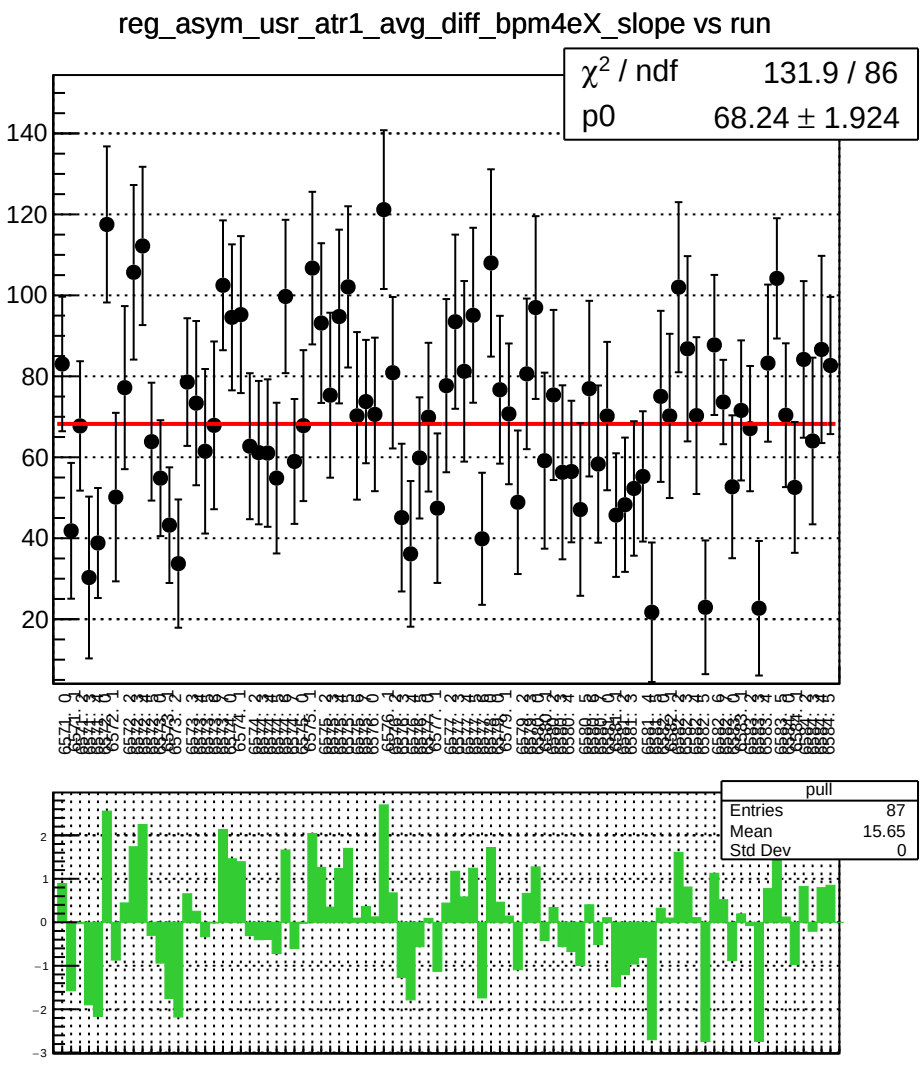

pull1D
Entries 87
Mean 0.01961
Std Dev 0.73

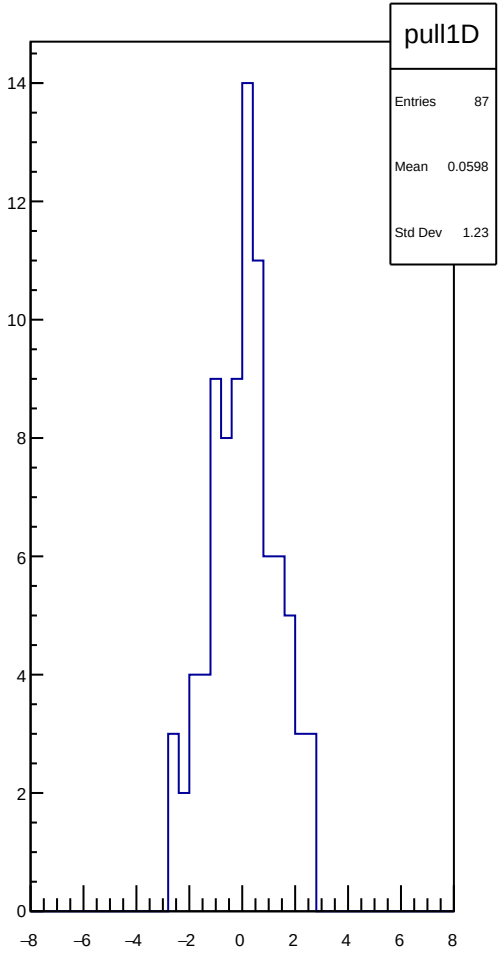

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 126.9 / 86
p0 134.5 ± 0.1697
pull
Entries 87
Mean 247.8
Std Dev 0
pull1D
Entries 87
Mean 0.05372
Std Dev 1.206

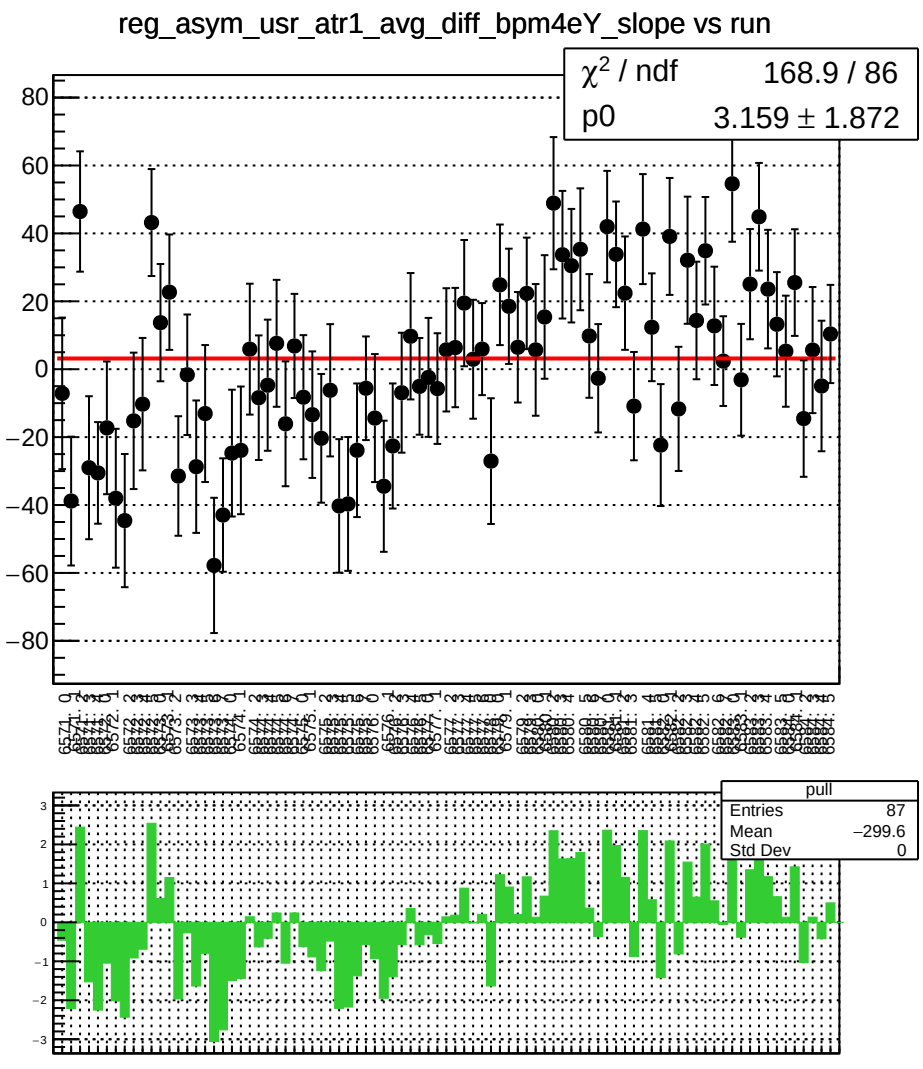

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 130.6 / 86
p0 −62.78 ± 1.871
pull
Entries 87
Mean −4.104
Std Dev 0
pull1D
Entries 87
Mean −0.05422
Std Dev 1.224

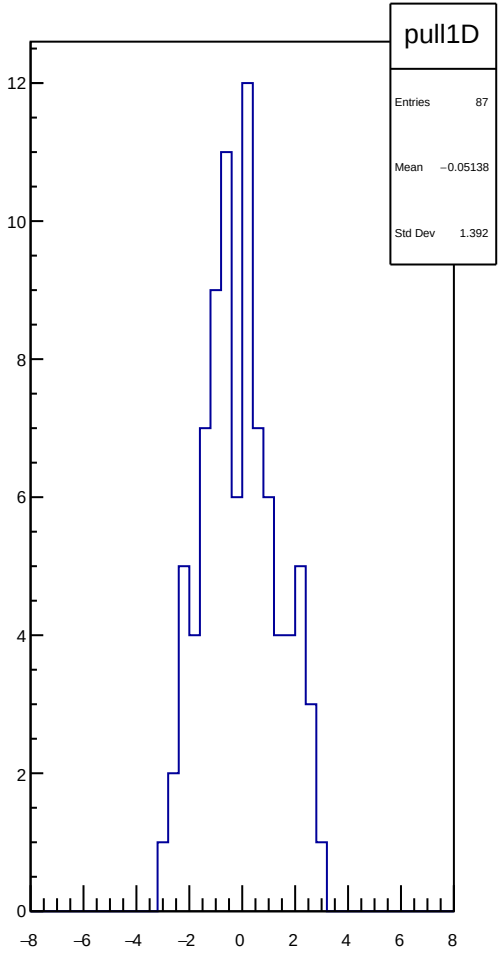

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 132.6 / 86
p0 8.861 ± 1.562
pull
Entries 87
Mean −251.3
Std Dev 0

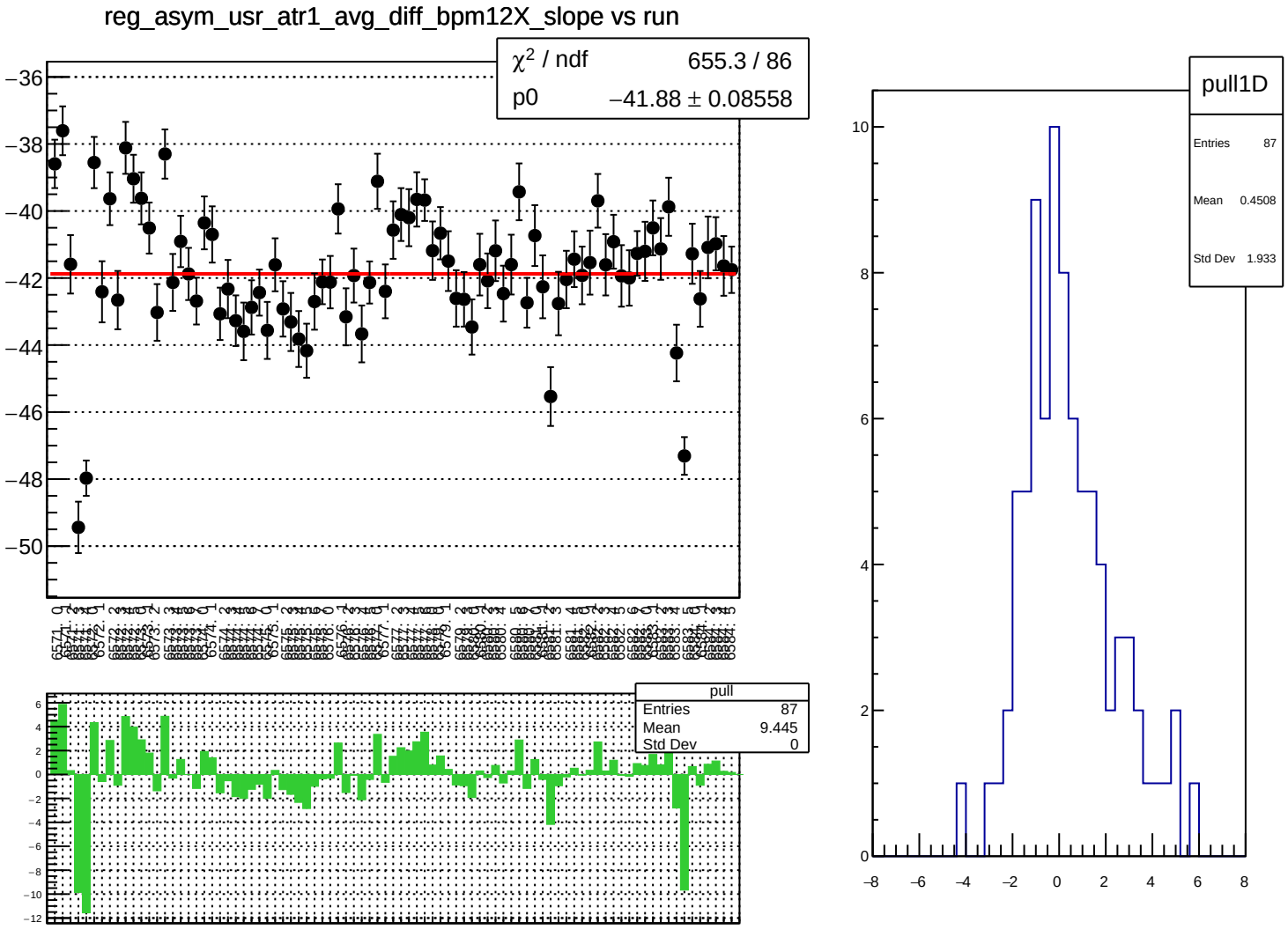

pull1D
Entries 87
Mean 0.04119
Std Dev 1.234

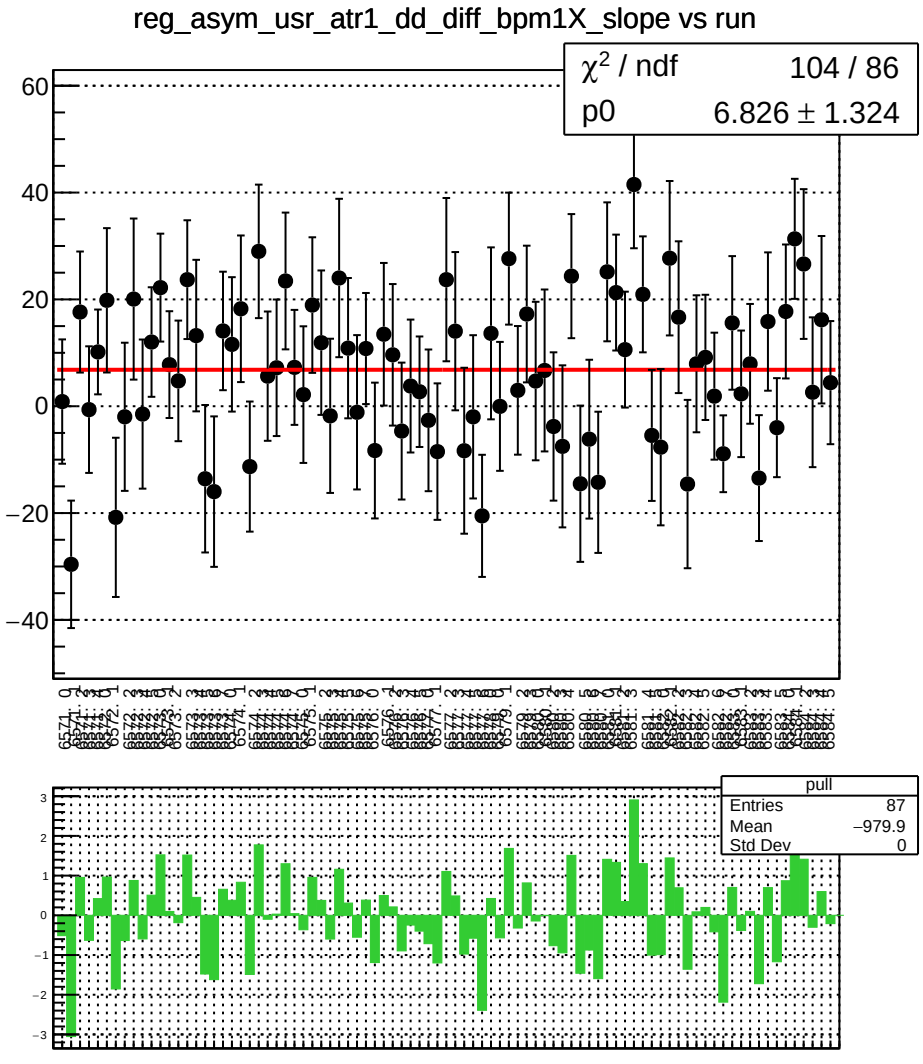

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 131.9 / 86
p0 68.24 ± 1.924
pull
Entries 87
Mean 15.65
Std Dev 0

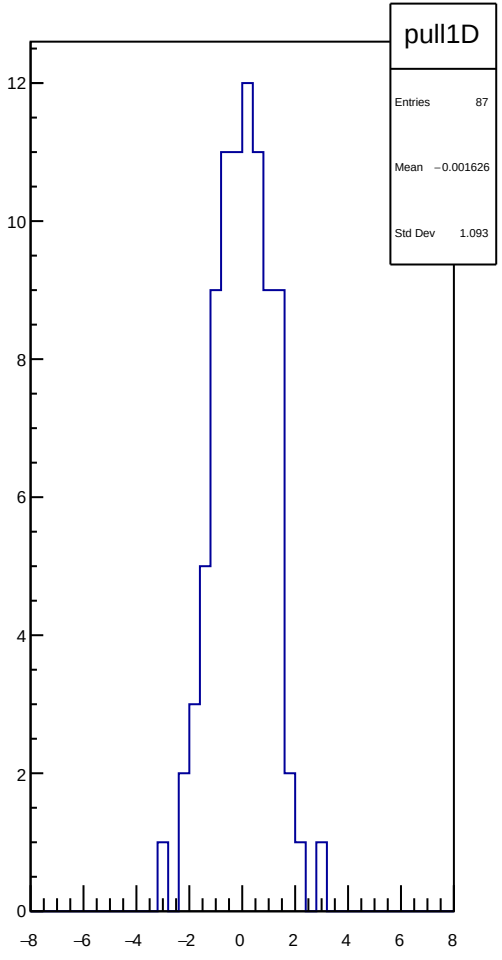

pull1D
Entries 87
Mean 0.0598
Std Dev 1.23

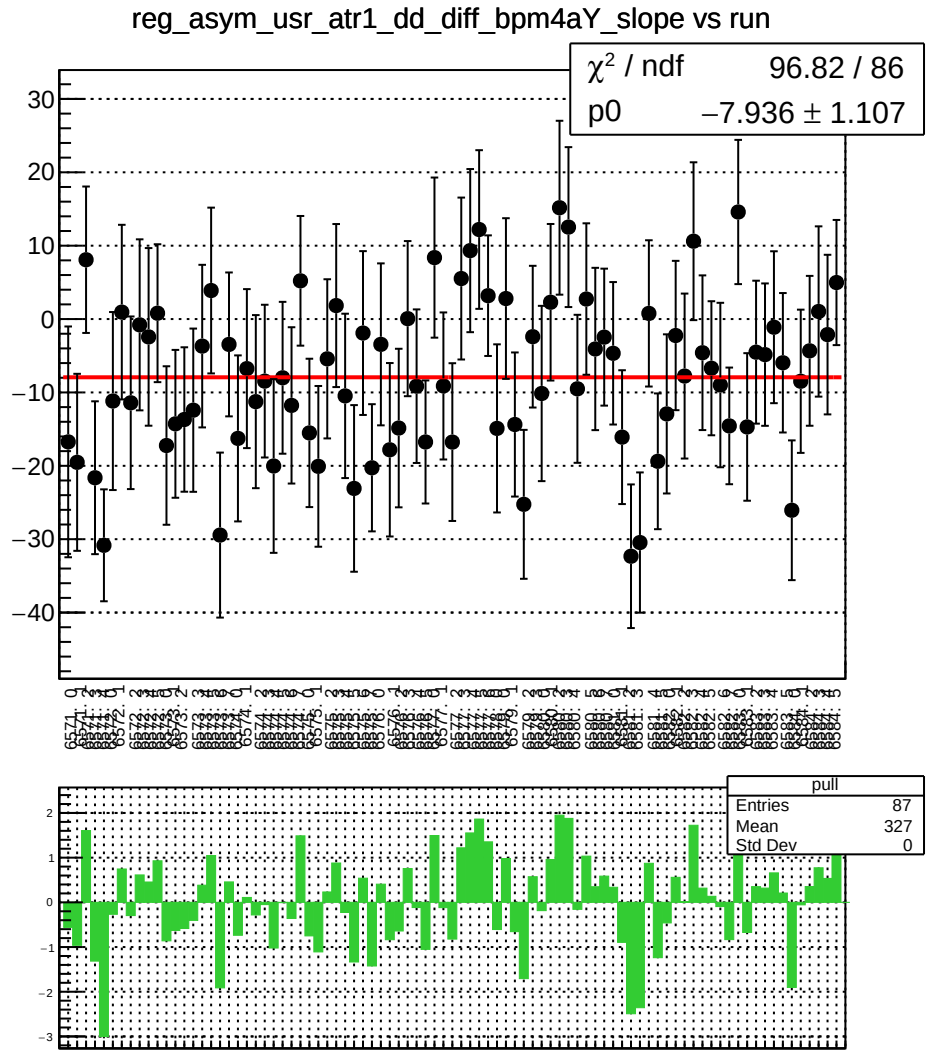

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 168.9 / 86
p0 3.159 ± 1.872
pull
Entries 87
Mean −299.6
Std Dev 0

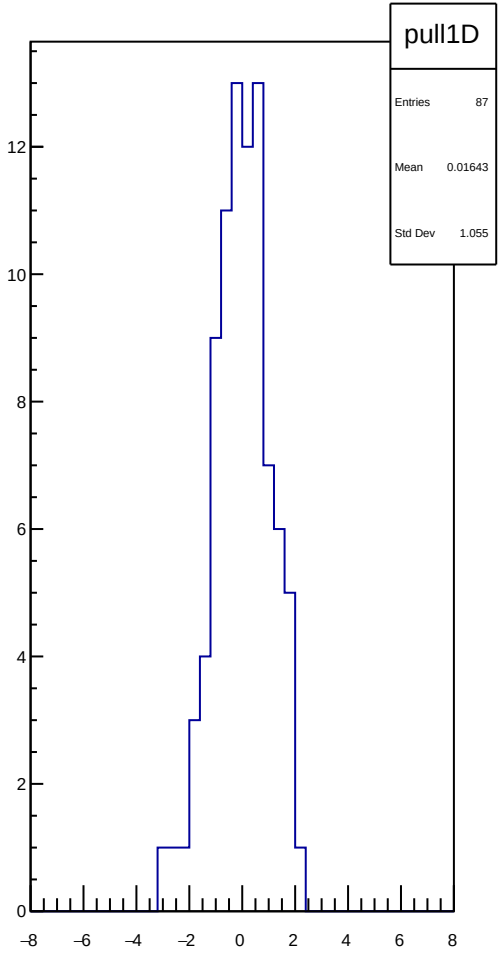

pull1D
Entries 87
Mean −0.05138
Std Dev 1.392

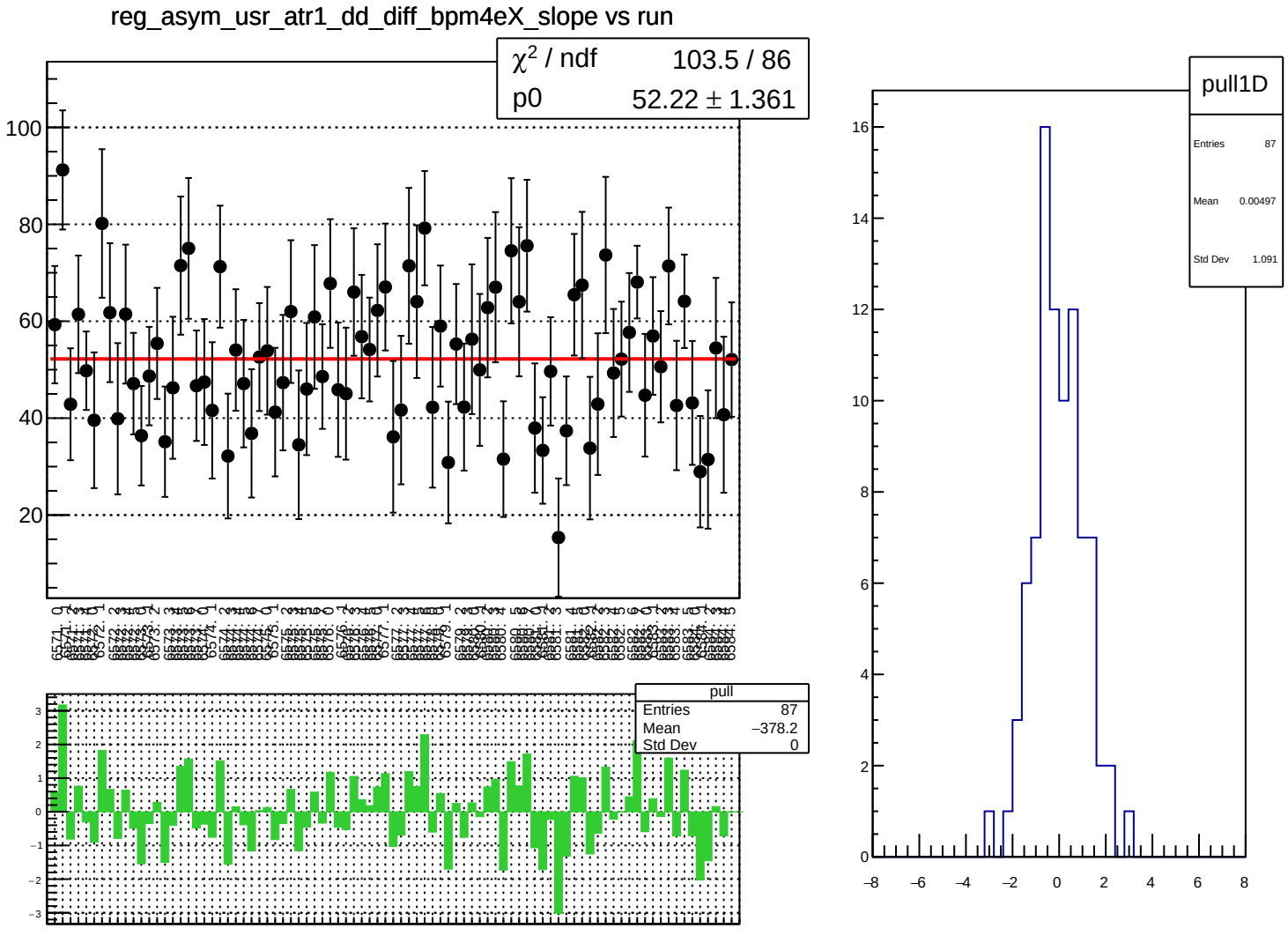

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 655.3 / 86
p0 −41.88 ± 0.08558
pull
Entries 87
Mean 9.445
Std Dev 0
pull1D
Entries 87
Mean 0.4508
Std Dev 1.933

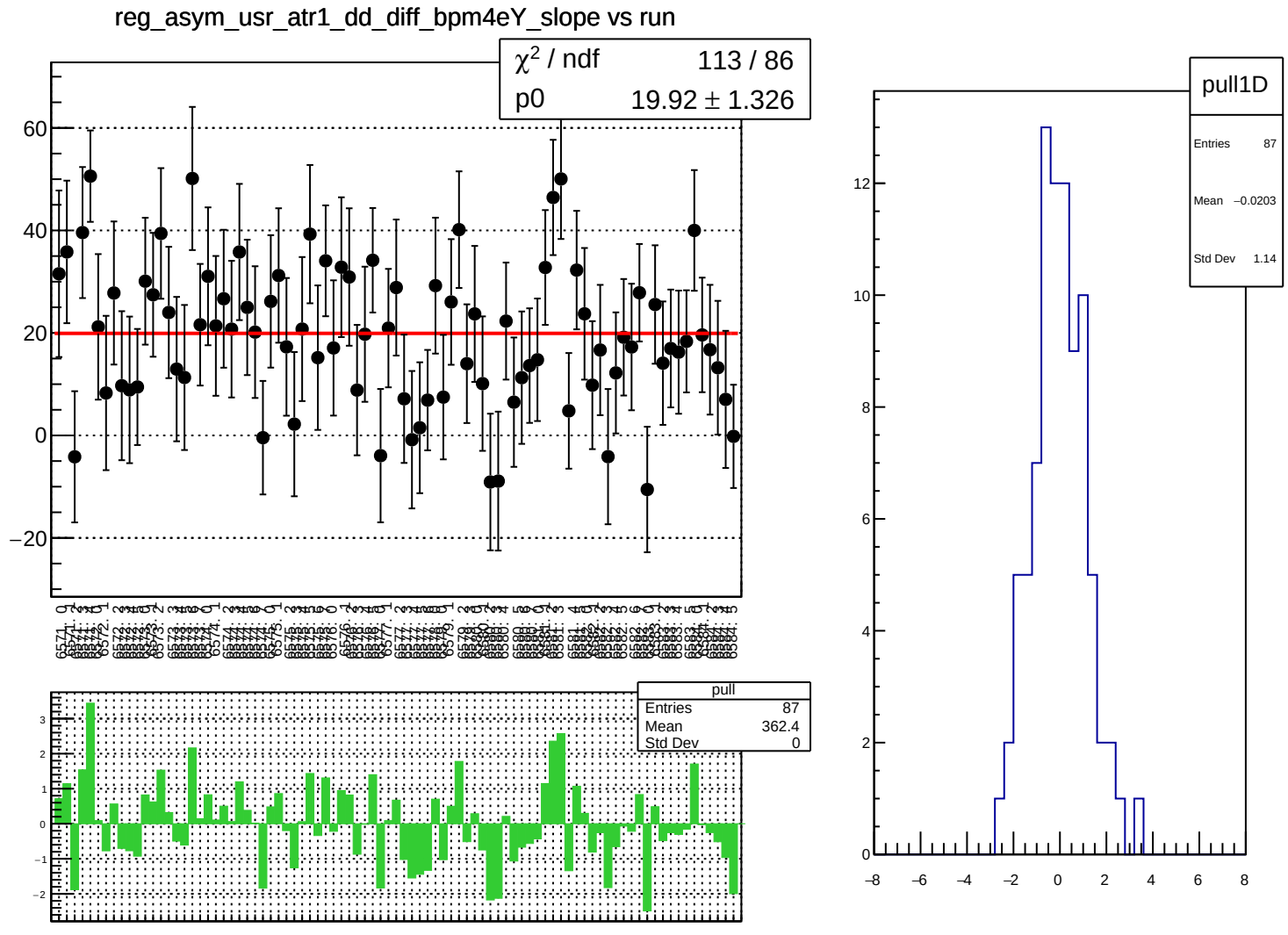

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 104 / 86
p0 6.826 ± 1.324
pull
Entries 87
Mean −979.9
Std Dev 0

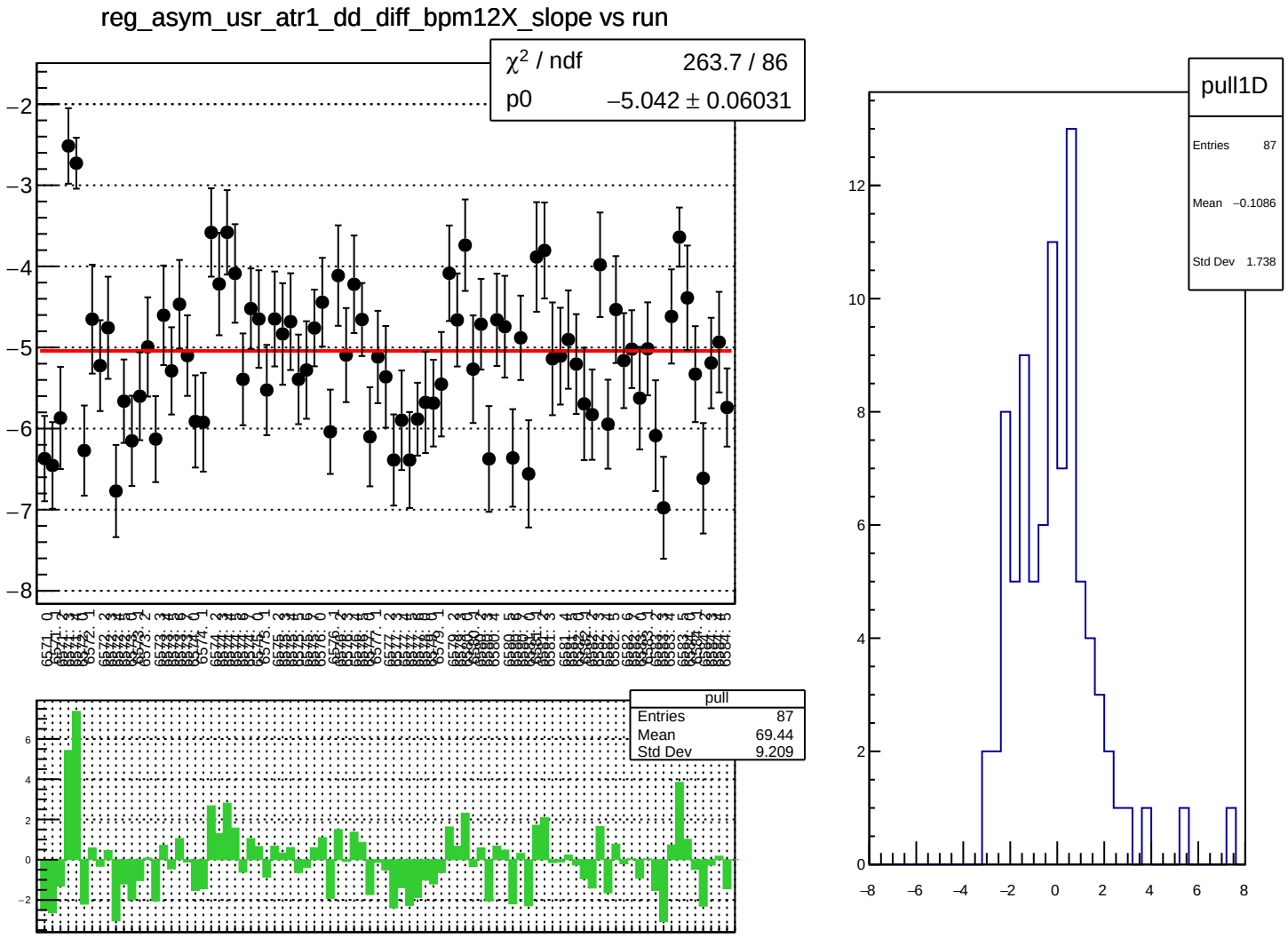

pull1D
Entries 87
Mean −0.001626
Std Dev 1.093

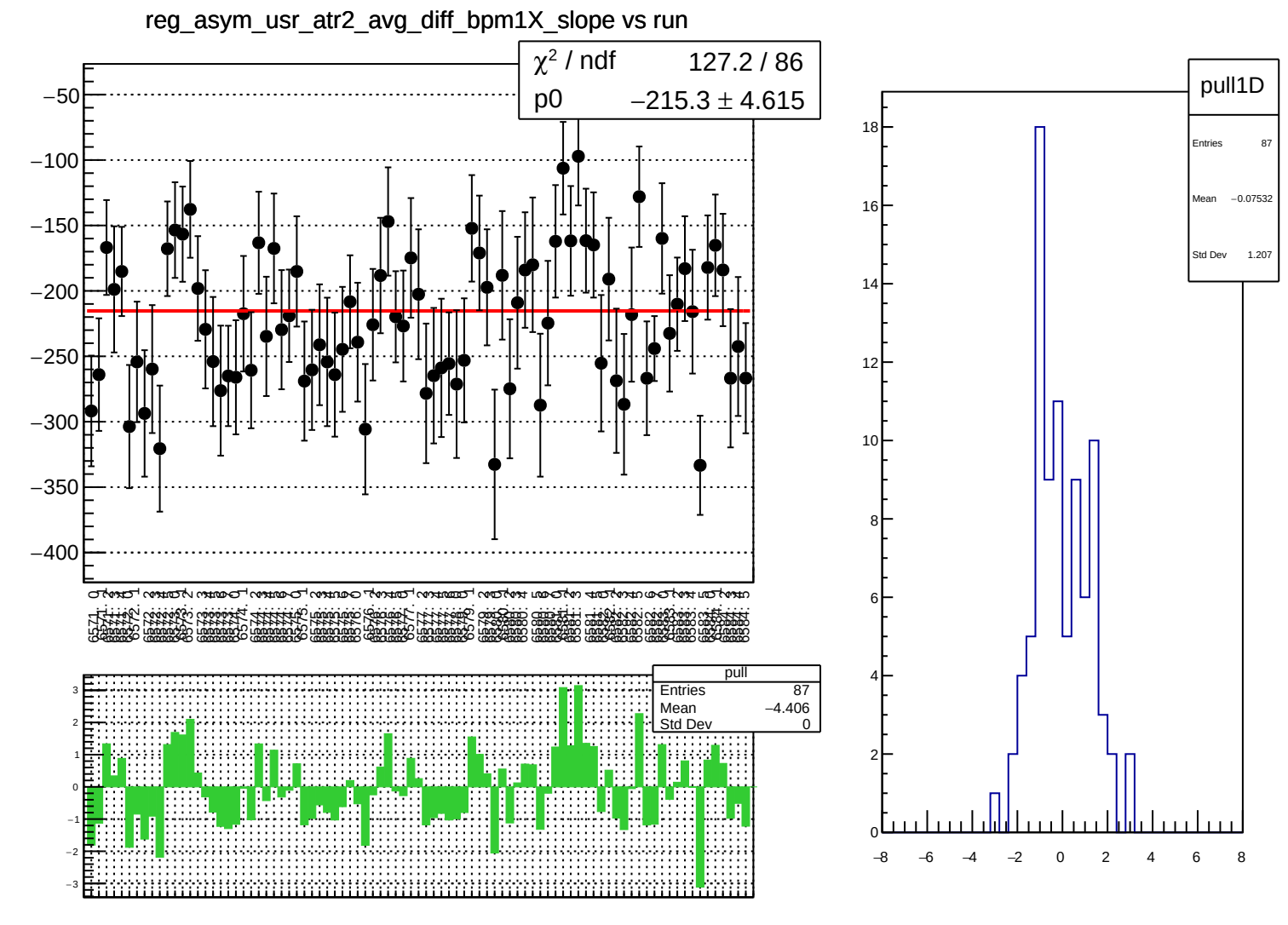

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.82 / 86
p0 −7.936 ± 1.107
pull
Entries 87
Mean 327
Std Dev 0

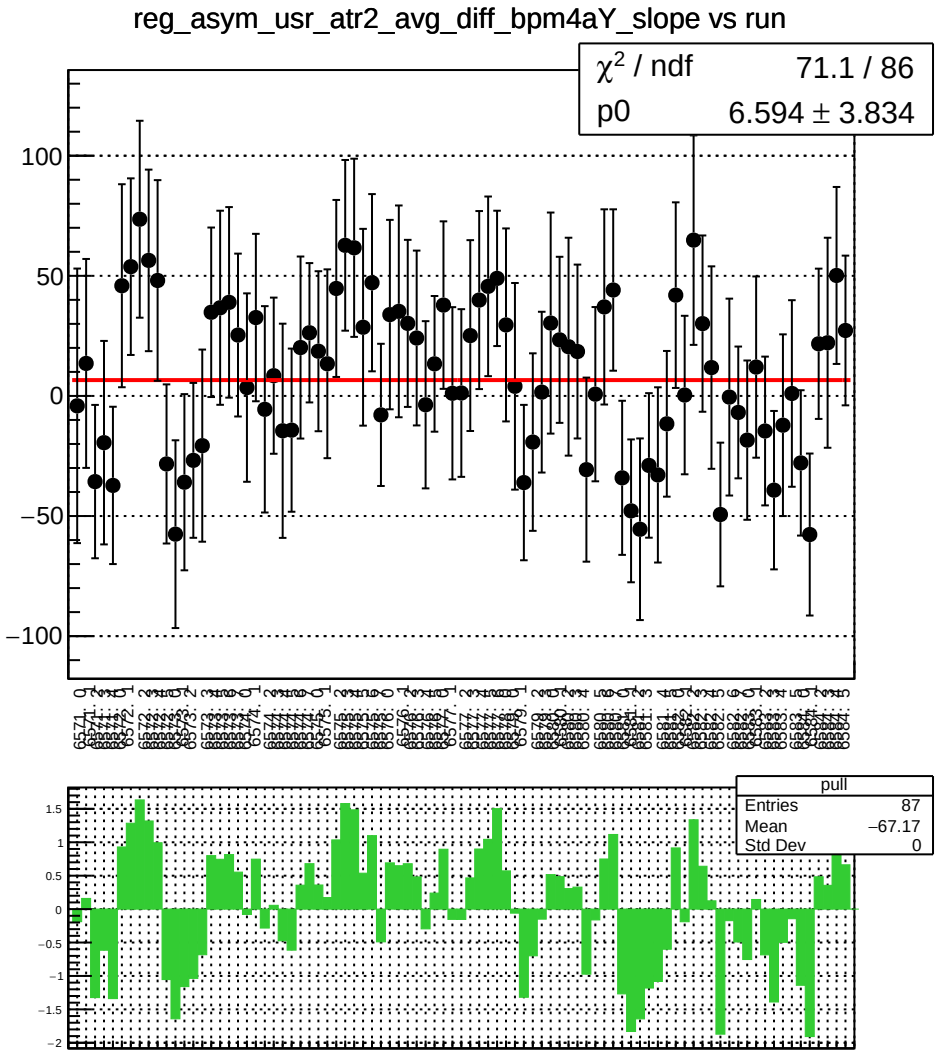

pull1D
Entries 87
Mean 0.01643
Std Dev 1.055

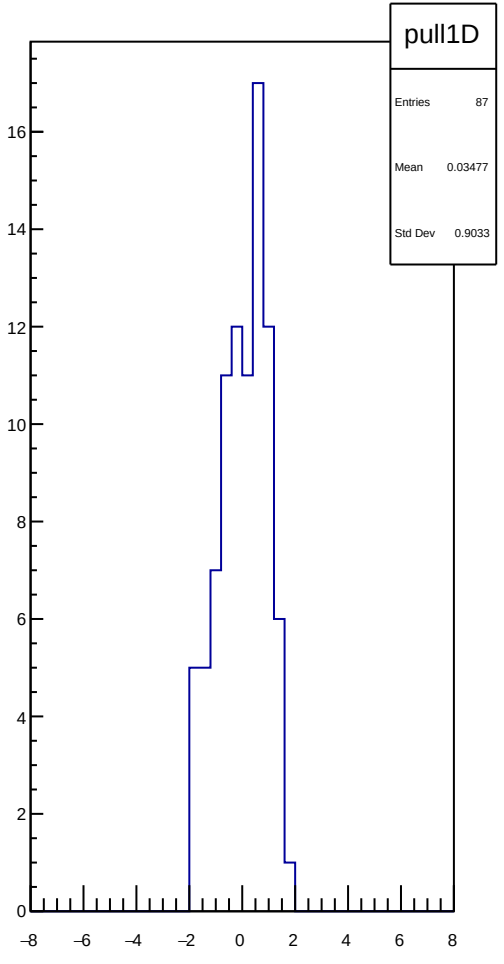

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.5 / 86
p0 52.22 ± 1.361
pull
Entries 87
Mean −378.2
Std Dev 0
pull1D
Entries 87
Mean 0.00497
Std Dev 1.091

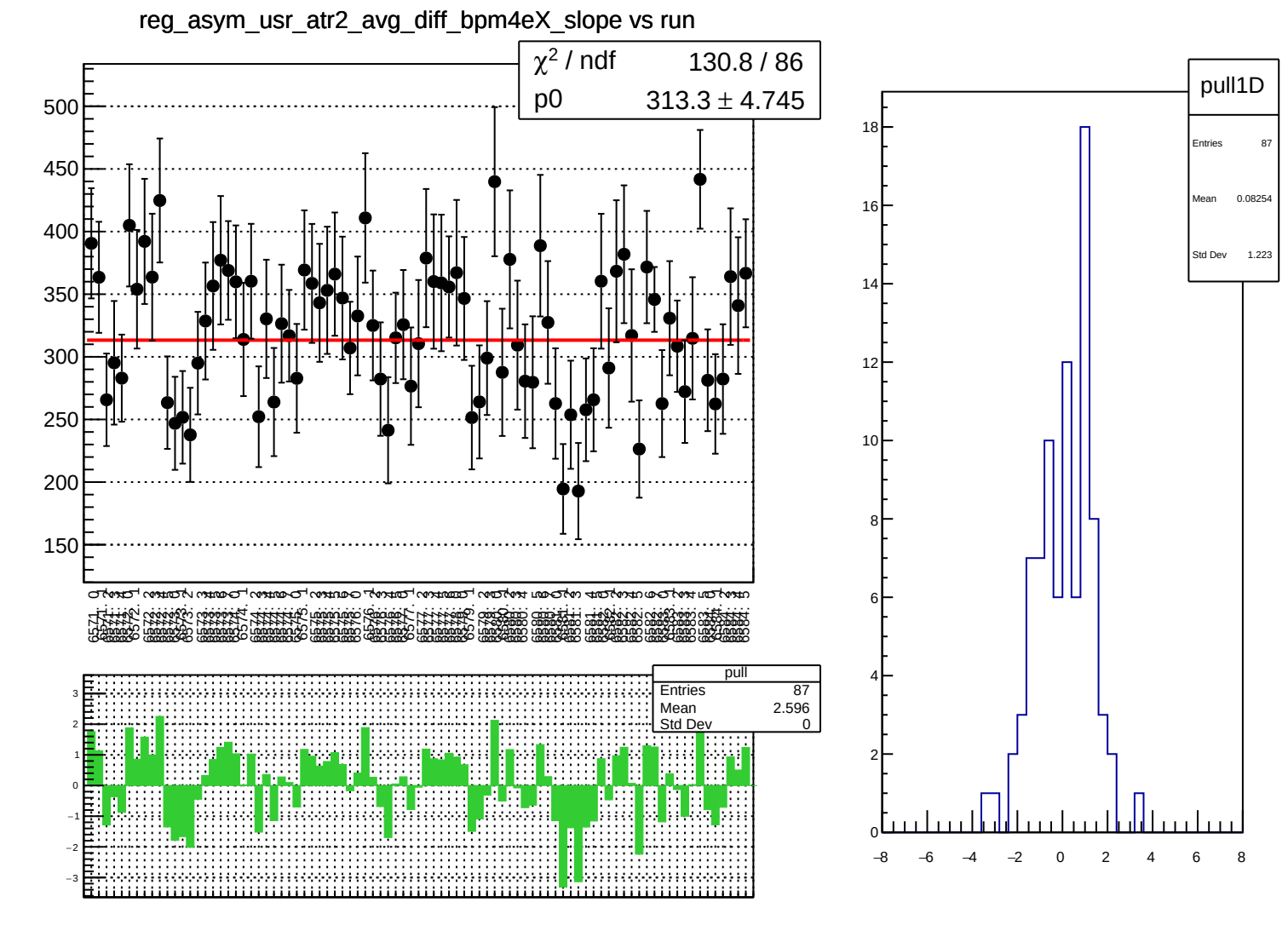

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 113 / 86
p0 19.92 ± 1.326
pull
Entries 87
Mean 362.4
Std Dev 0
pull1D
Entries 87
Mean −0.0203
Std Dev 1.14

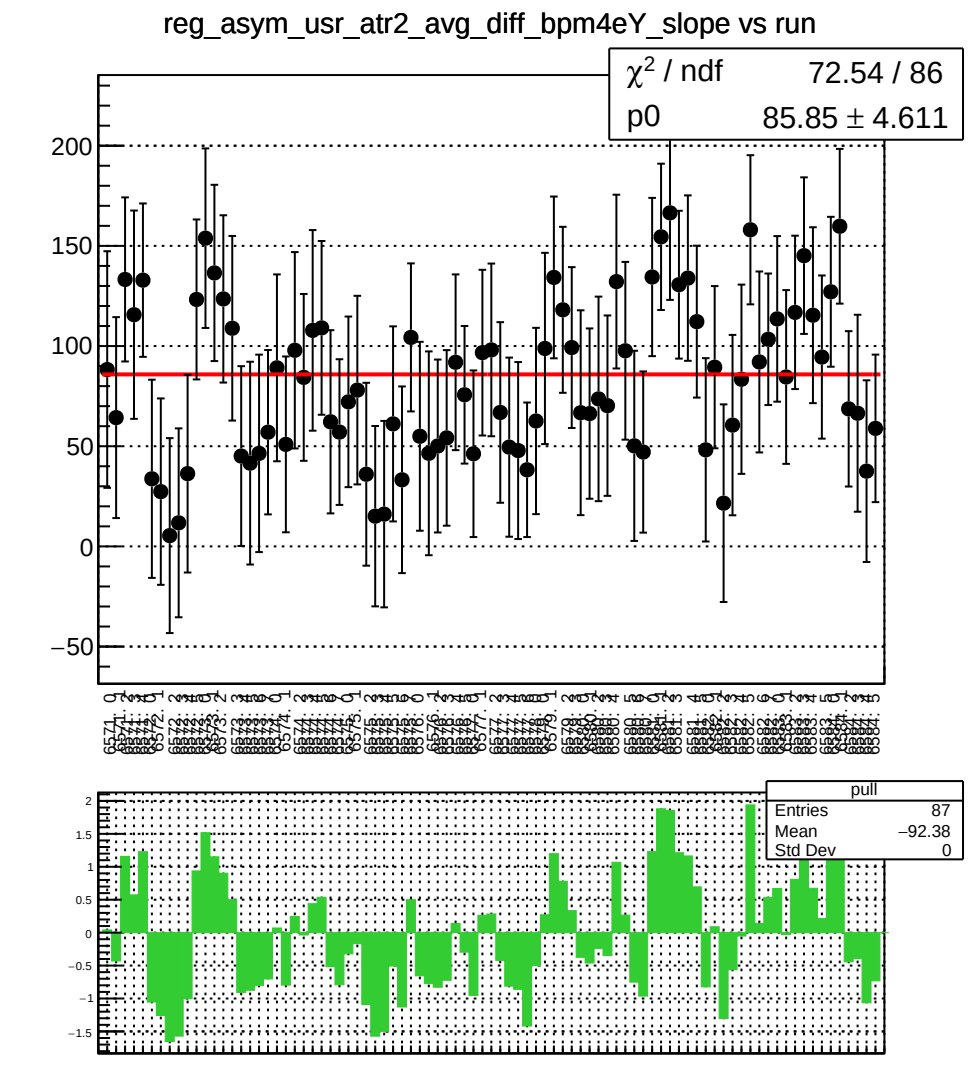

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 263.7 / 86
p0 −5.042 ± 0.06031
pull
Entries 87
Mean 69.44
Std Dev 9.209
pull1D
Entries 87
Mean −0.1086
Std Dev 1.738

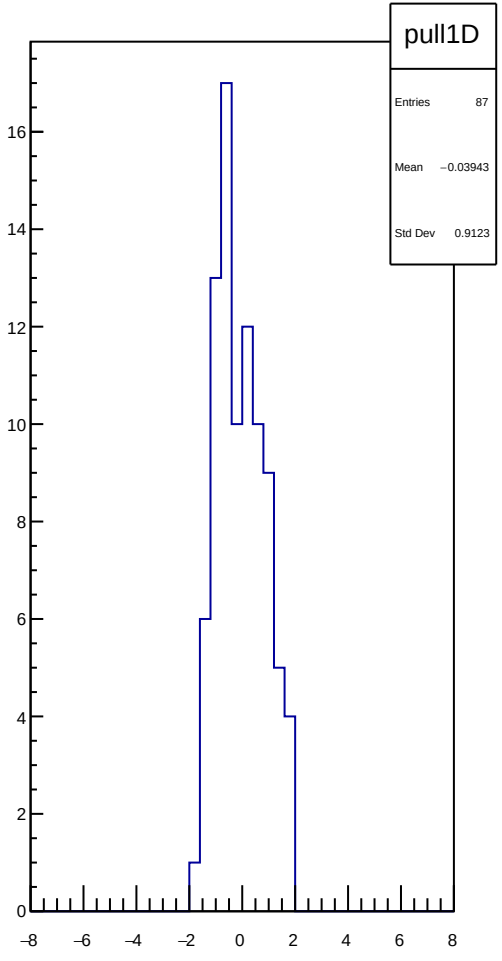

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 127.2 / 86
p0 −215.3 ± 4.615
pull
Entries 87
Mean −4.406
Std Dev 0
pull1D
Entries 87
Mean −0.07532
Std Dev 1.207

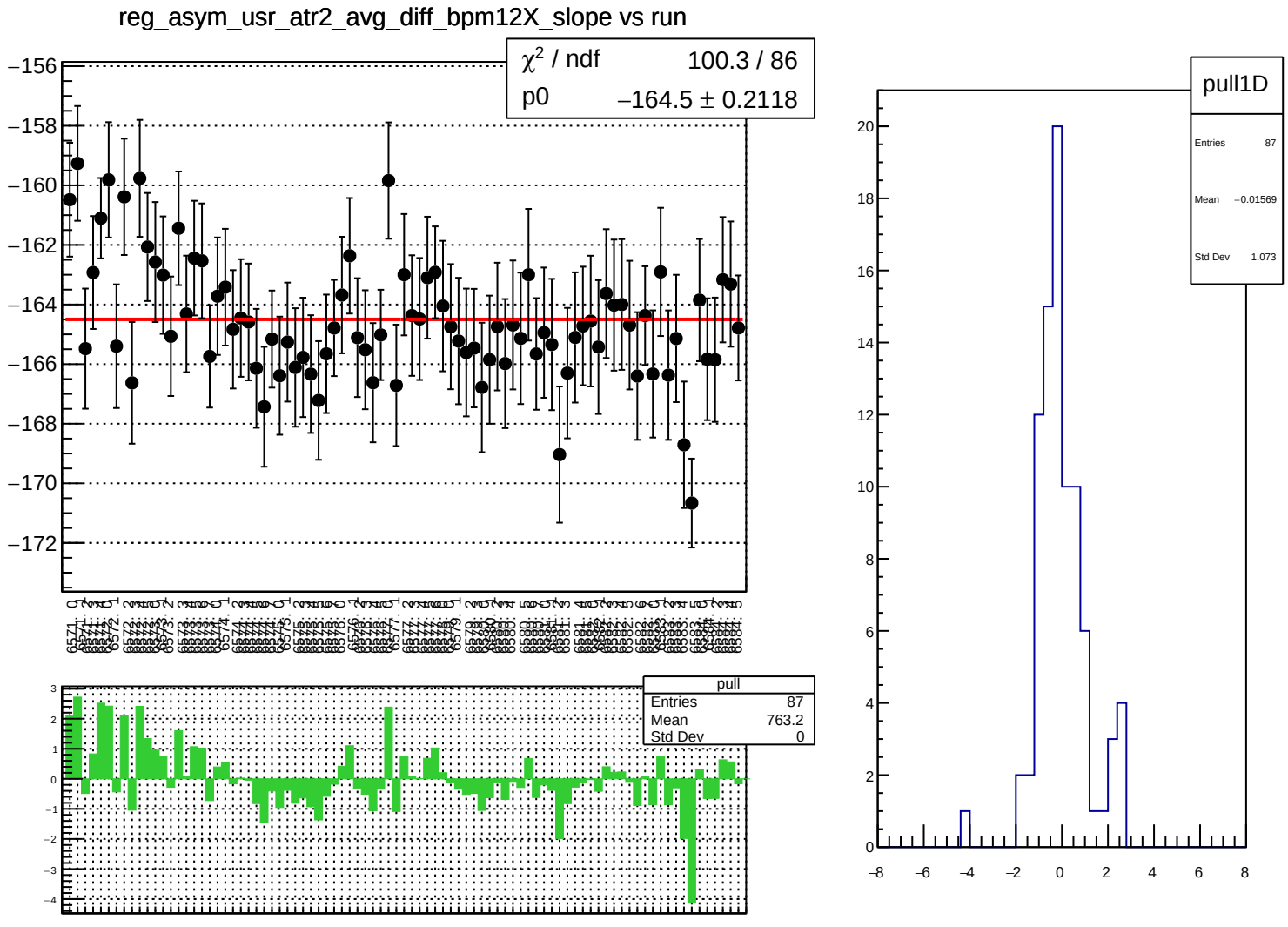

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.1 / 86
p0 6.594 ± 3.834
pull
Entries 87
Mean −67.17
Std Dev 0

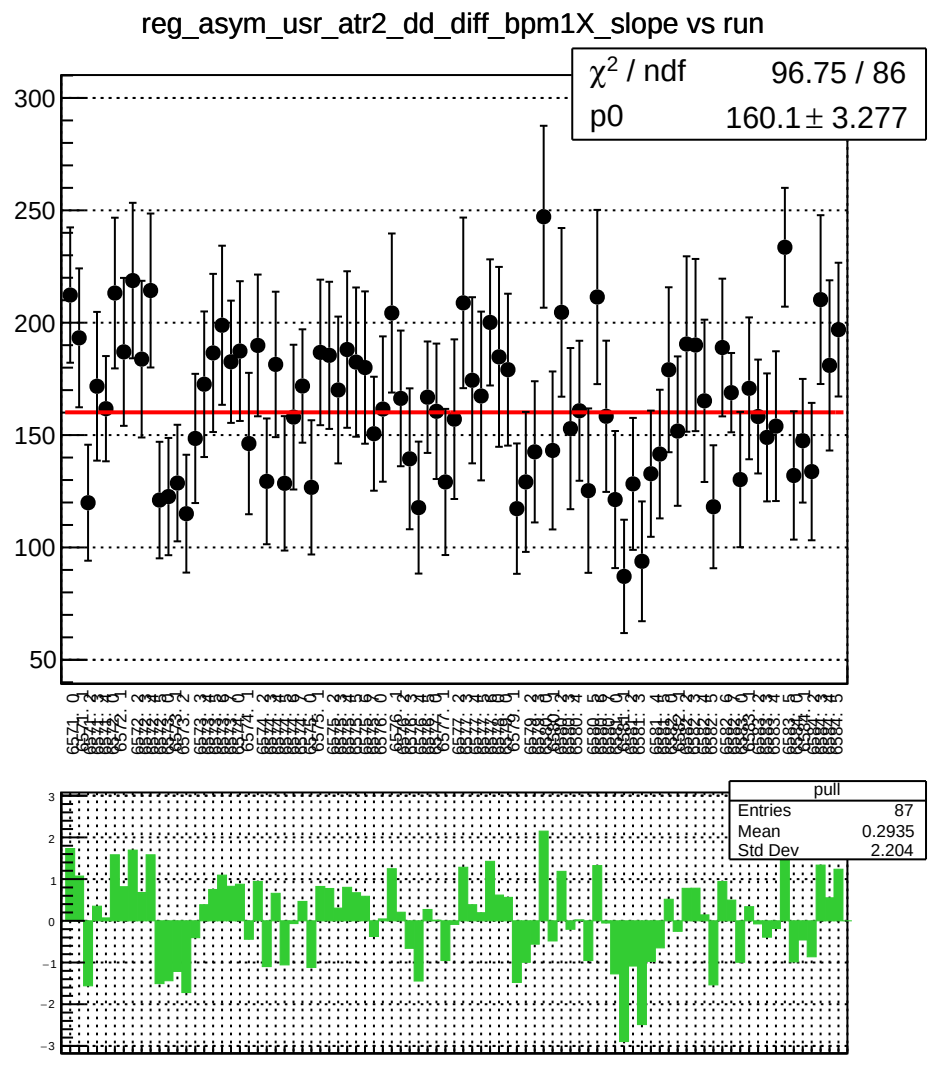

pull1D
Entries 87
Mean 0.03477
Std Dev 0.9033

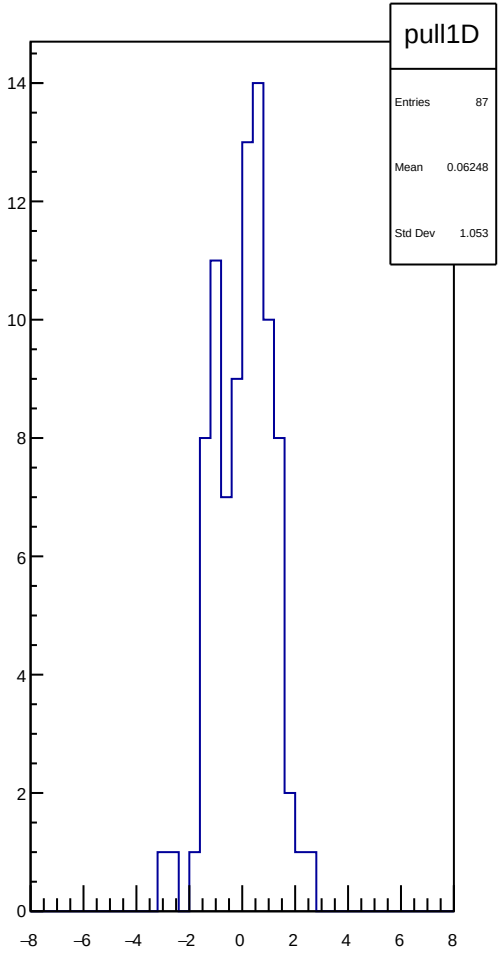

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 130.8 / 86
p0 313.3 ± 4.745
pull
Entries 87
Mean 2.596
Std Dev 0
pull1D
Entries 87
Mean 0.08254
Std Dev 1.223

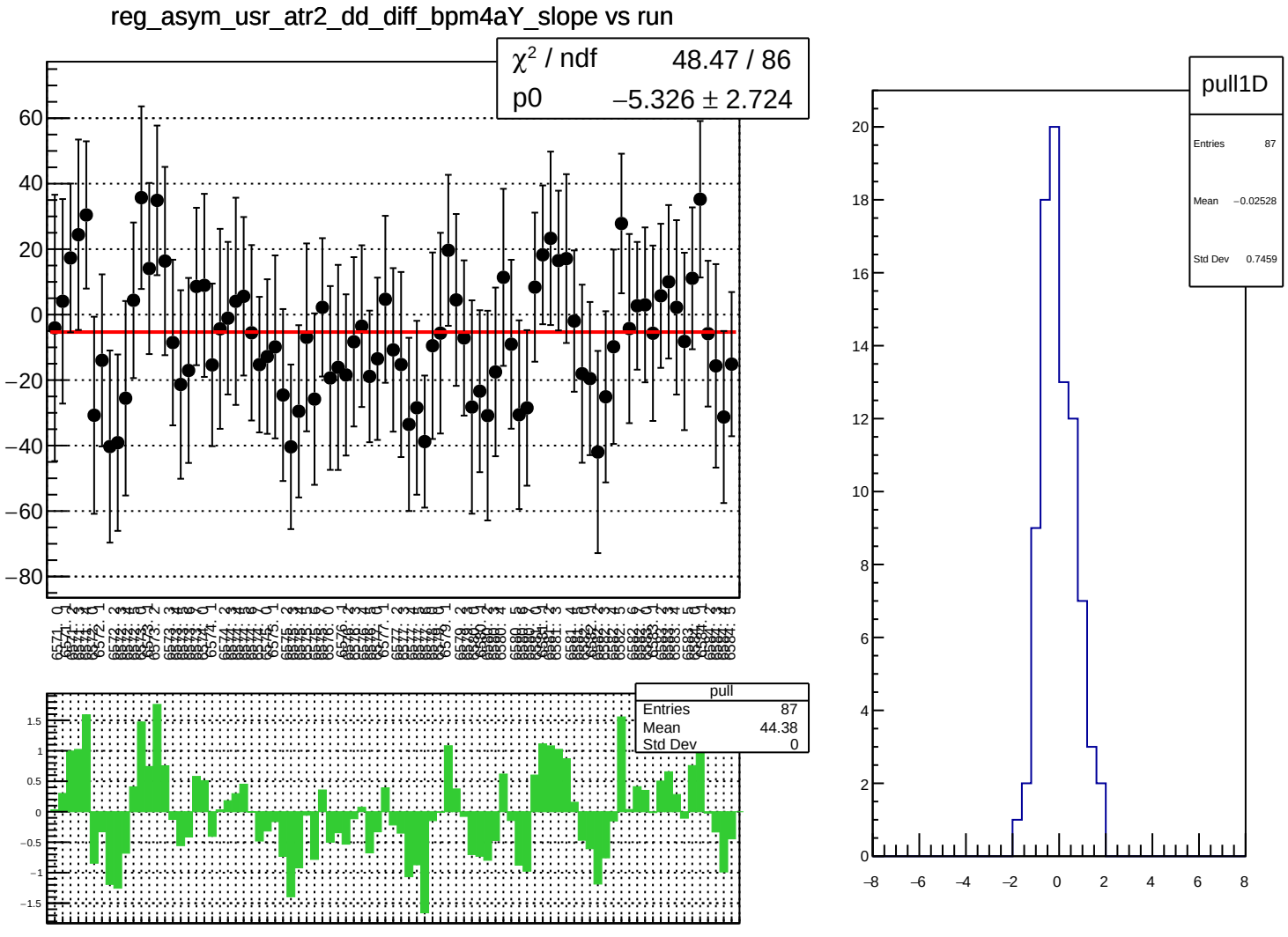

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.54 / 86
p0 85.85 ± 4.611
pull
Entries 87
Mean −92.38
Std Dev 0

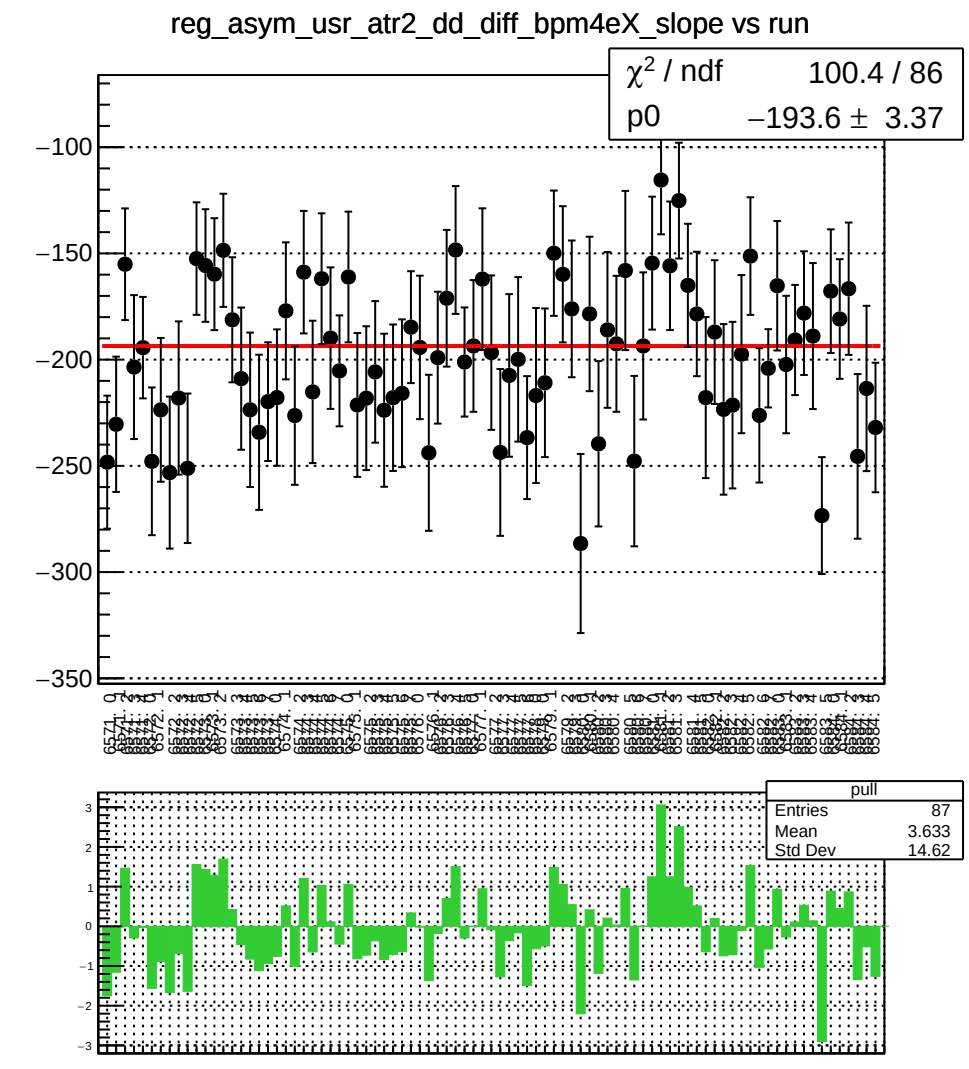

pull1D
Entries 87
Mean −0.03943
Std Dev 0.9123

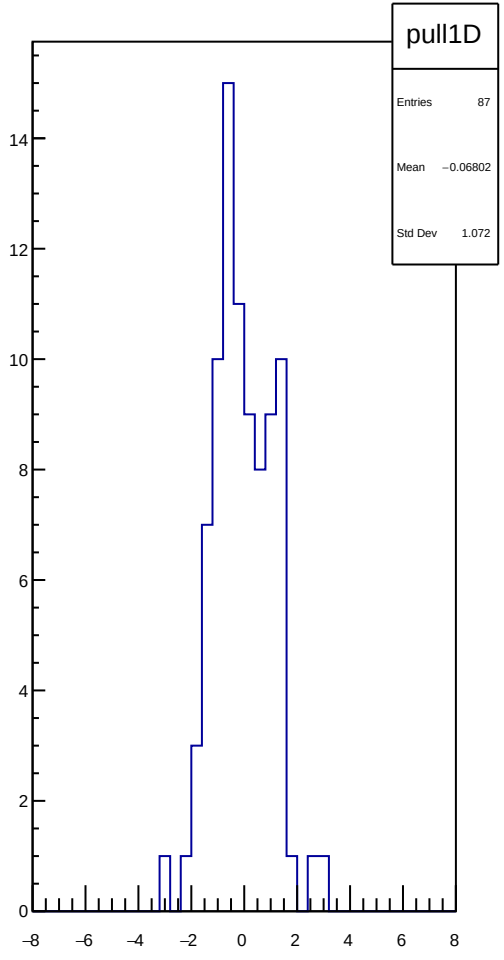

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 100.3 / 86
p0 −164.5 ± 0.2118
pull
Entries 87
Mean 763.2
Std Dev 0
pull1D
Entries 87
Mean −0.01569
Std Dev 1.073

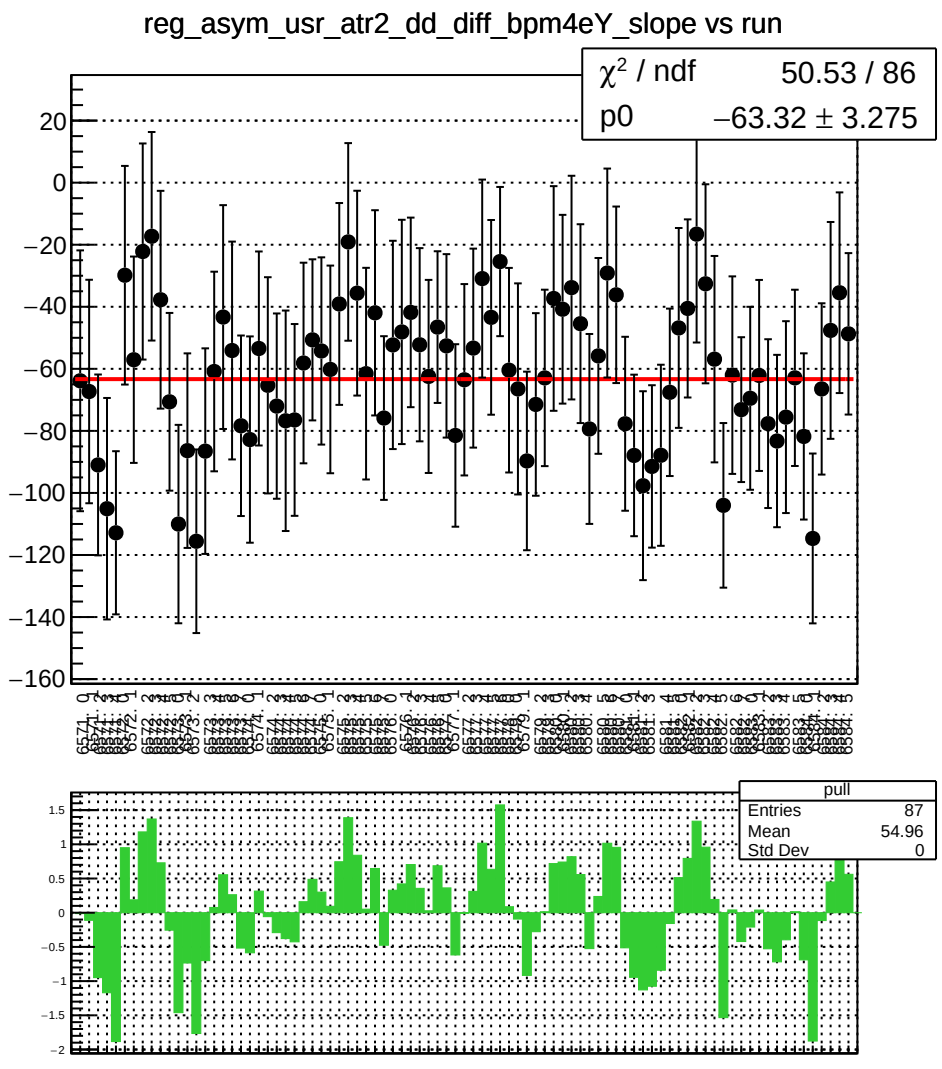

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 96.75 / 86
p0 160.1 ± 3.277
pull
Entries 87
Mean 0.2935
Std Dev 2.204

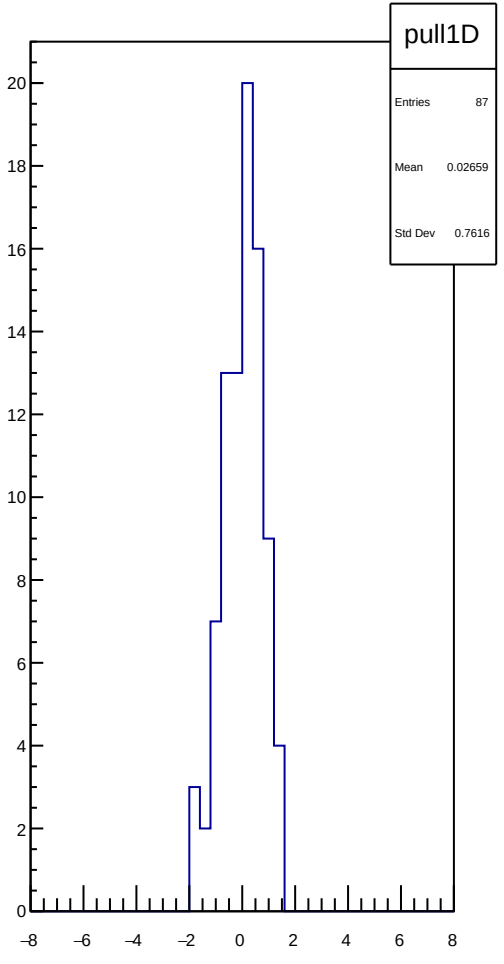

pull1D
Entries 87
Mean 0.06248
Std Dev 1.053

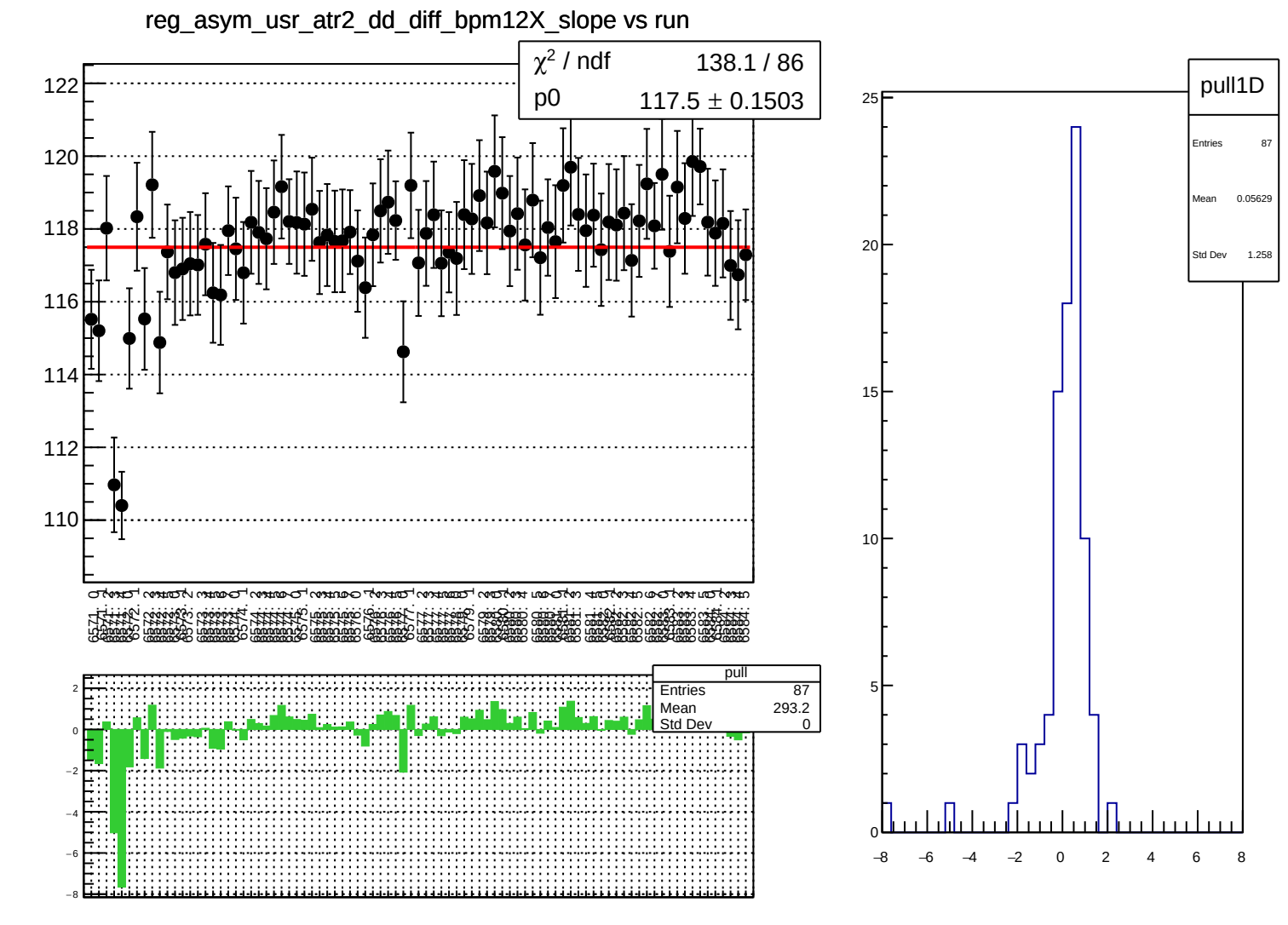

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.47 / 86
p0 −5.326 ± 2.724
pull
Entries 87
Mean 44.38
Std Dev 0
pull1D
Entries 87
Mean −0.02528
Std Dev 0.7459

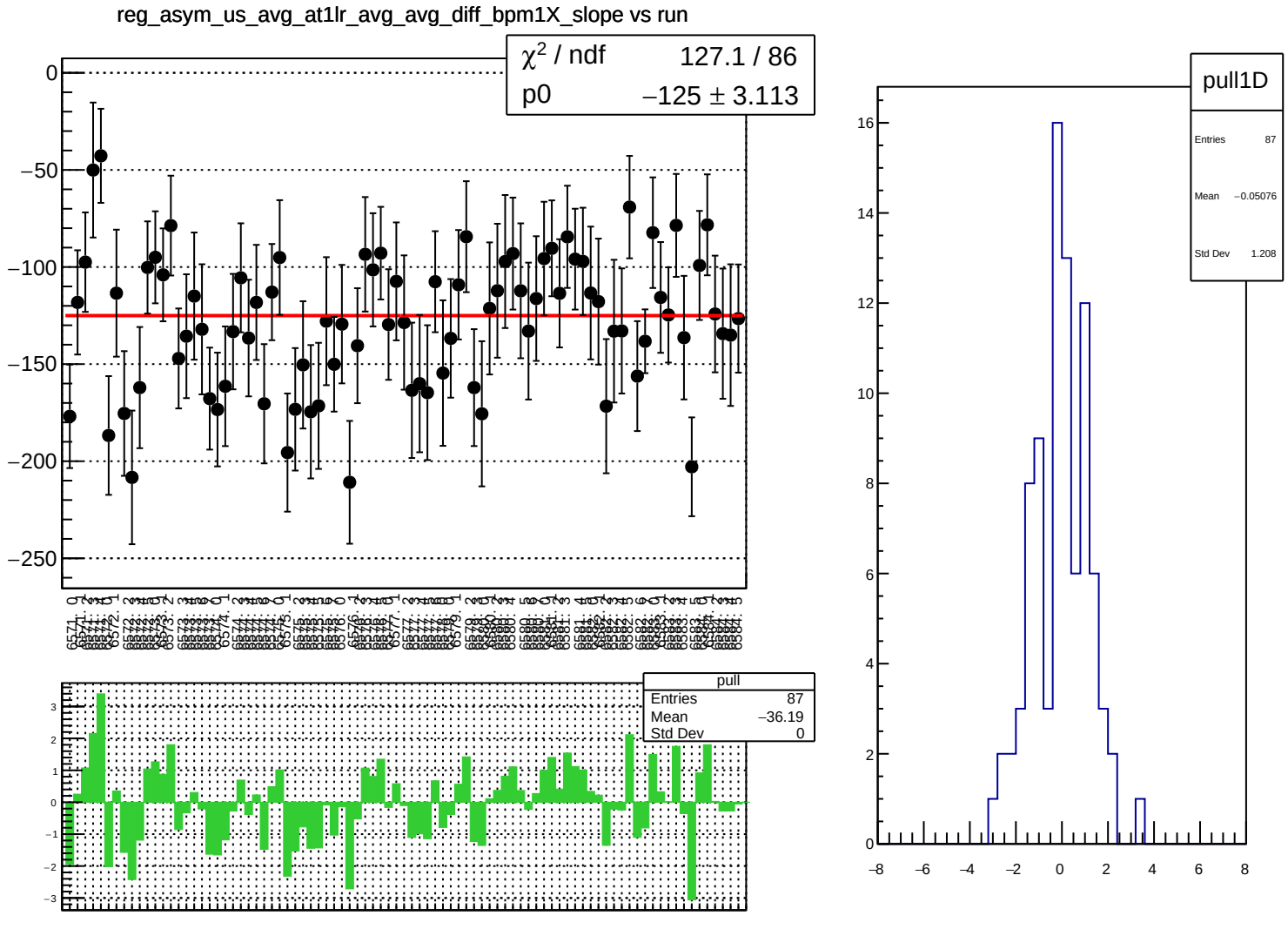

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 100.4 / 86
p0 −193.6 ± 3.37
pull
Entries 87
Mean 3.633
Std Dev 14.62

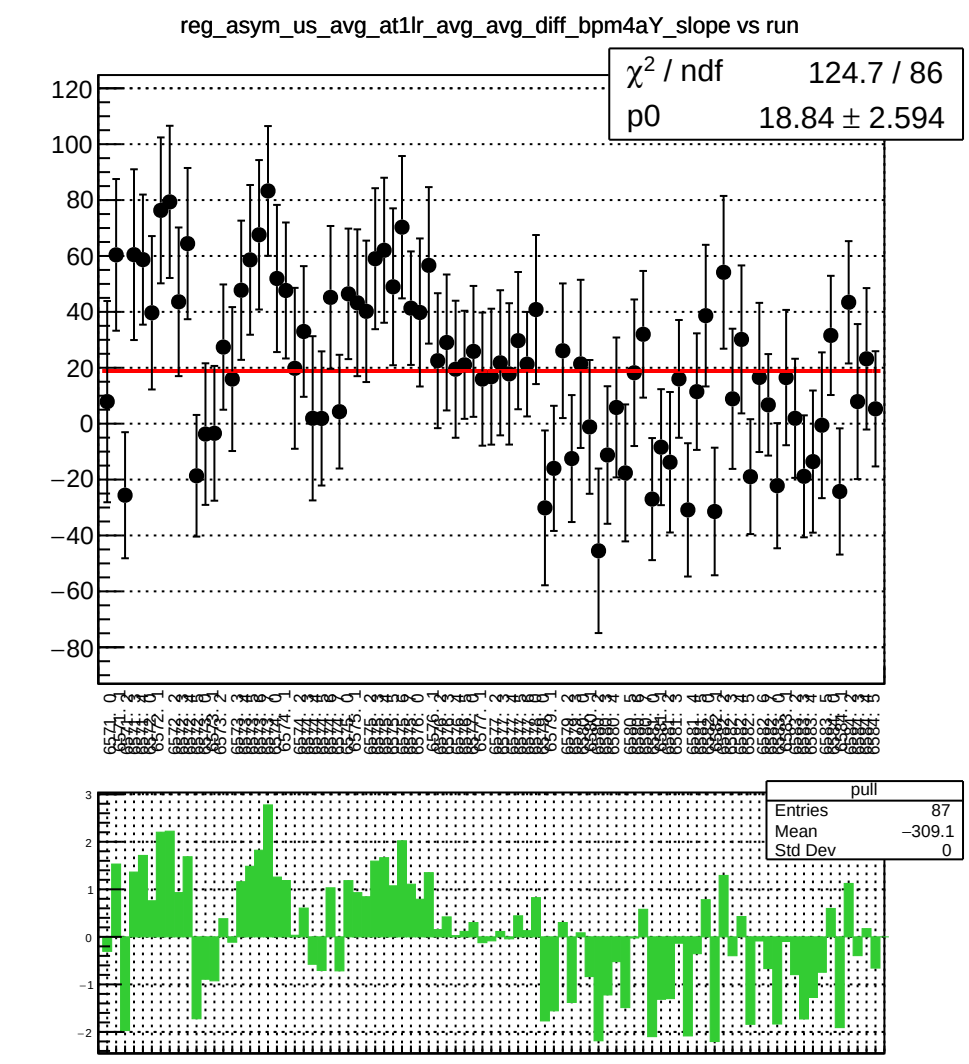

pull1D
Entries 87
Mean −0.06802
Std Dev 1.072

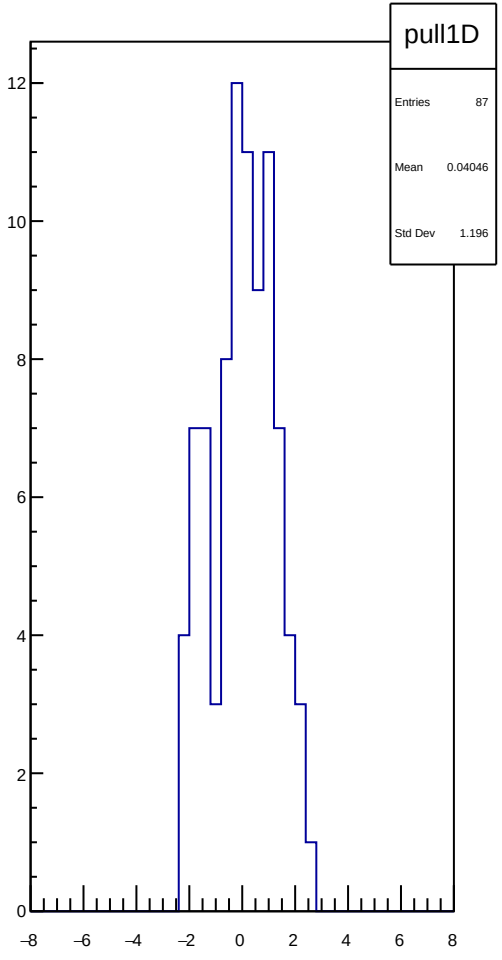

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.53 / 86
p0 −63.32 ± 3.275
pull
Entries 87
Mean 54.96
Std Dev 0

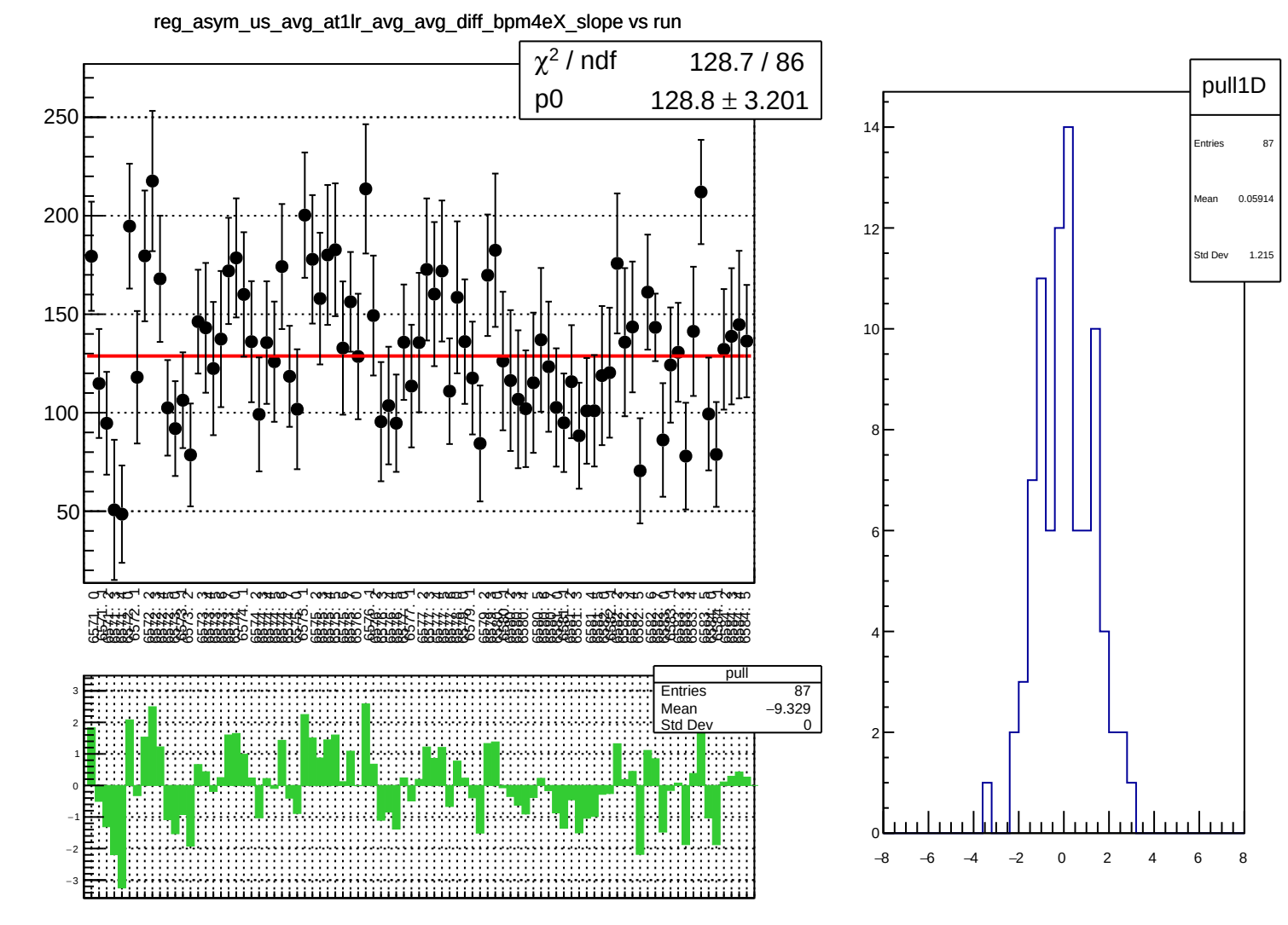

pull1D
Entries 87
Mean 0.02659
Std Dev 0.7616

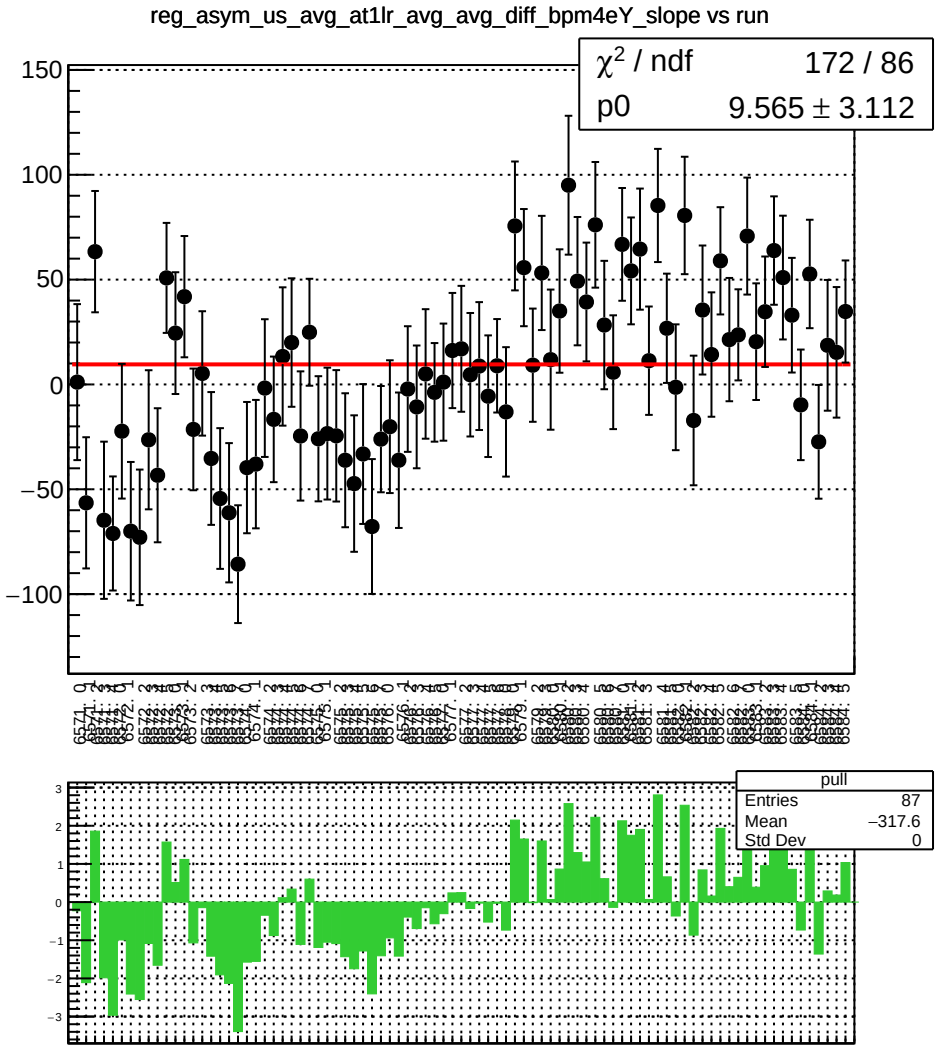

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 138.1 / 86
p0 117.5 ± 0.1503
122
120
118
116
114
112
110
pull
Entries 87
Mean 293.2
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 87
Mean 0.05629
Std Dev 1.258
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

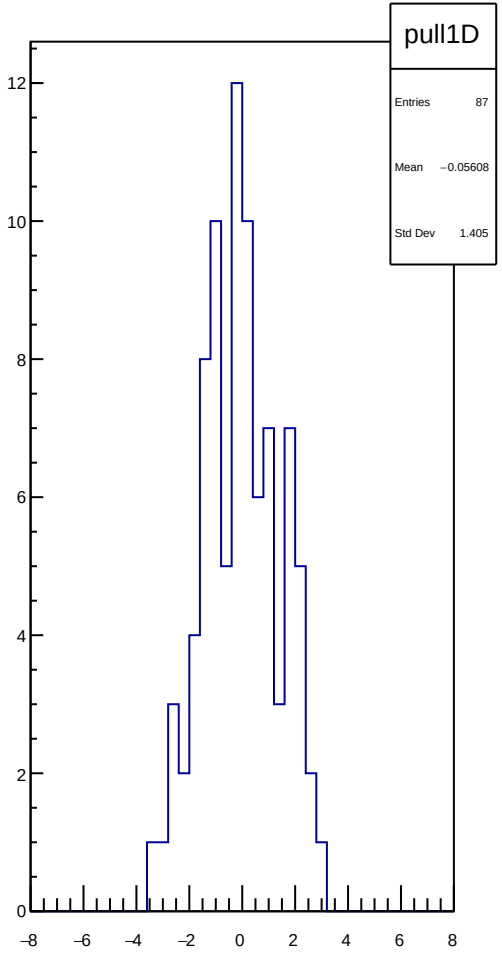

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 127.1 / 86
p0 −125 ± 3.113
pull
Entries 87
Mean −36.19
Std Dev 0
pull1D
Entries 87
Mean −0.05076
Std Dev 1.208

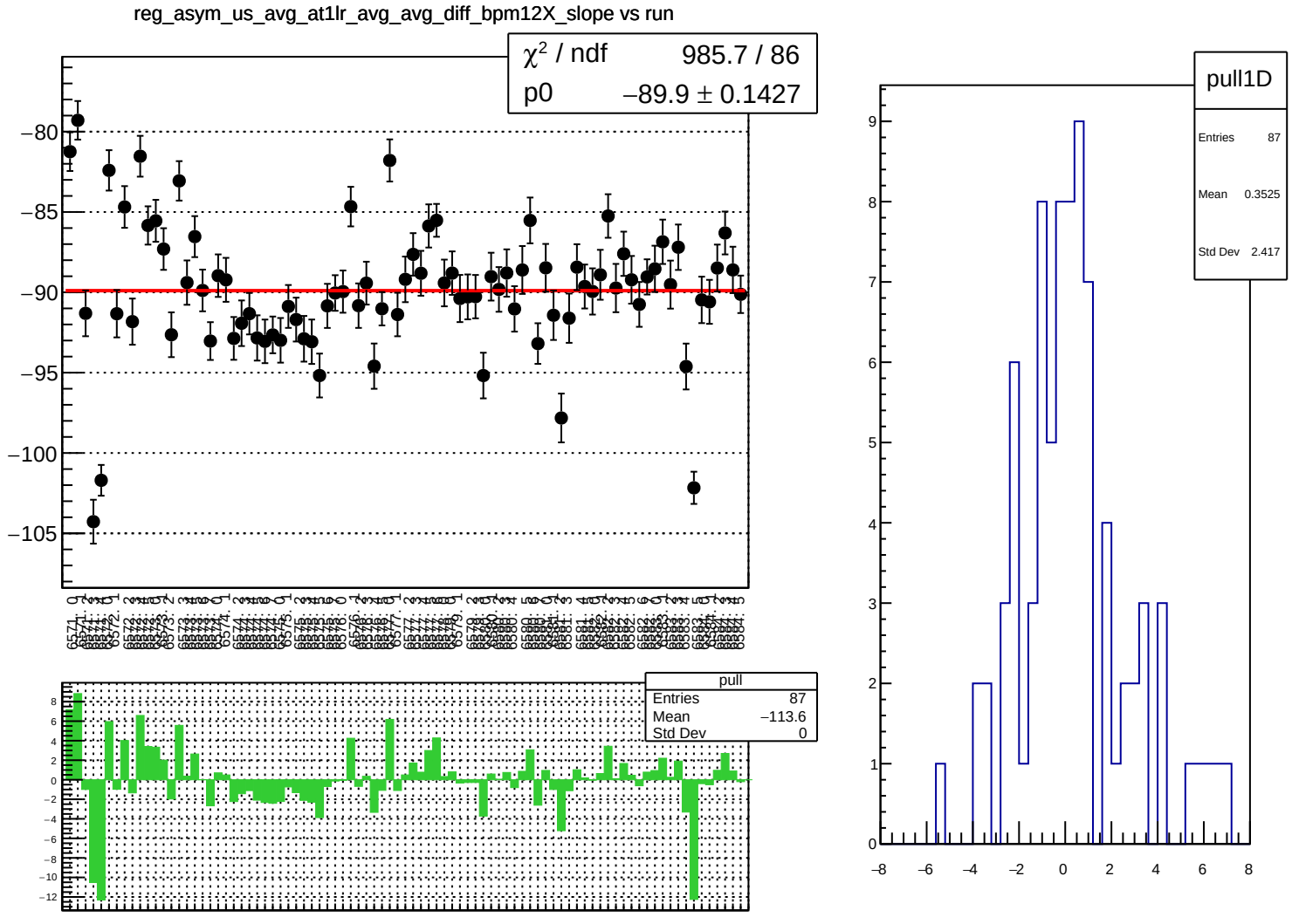

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 124.7 / 86
p0 18.84 ± 2.594
pull
Entries 87
Mean −309.1
Std Dev 0

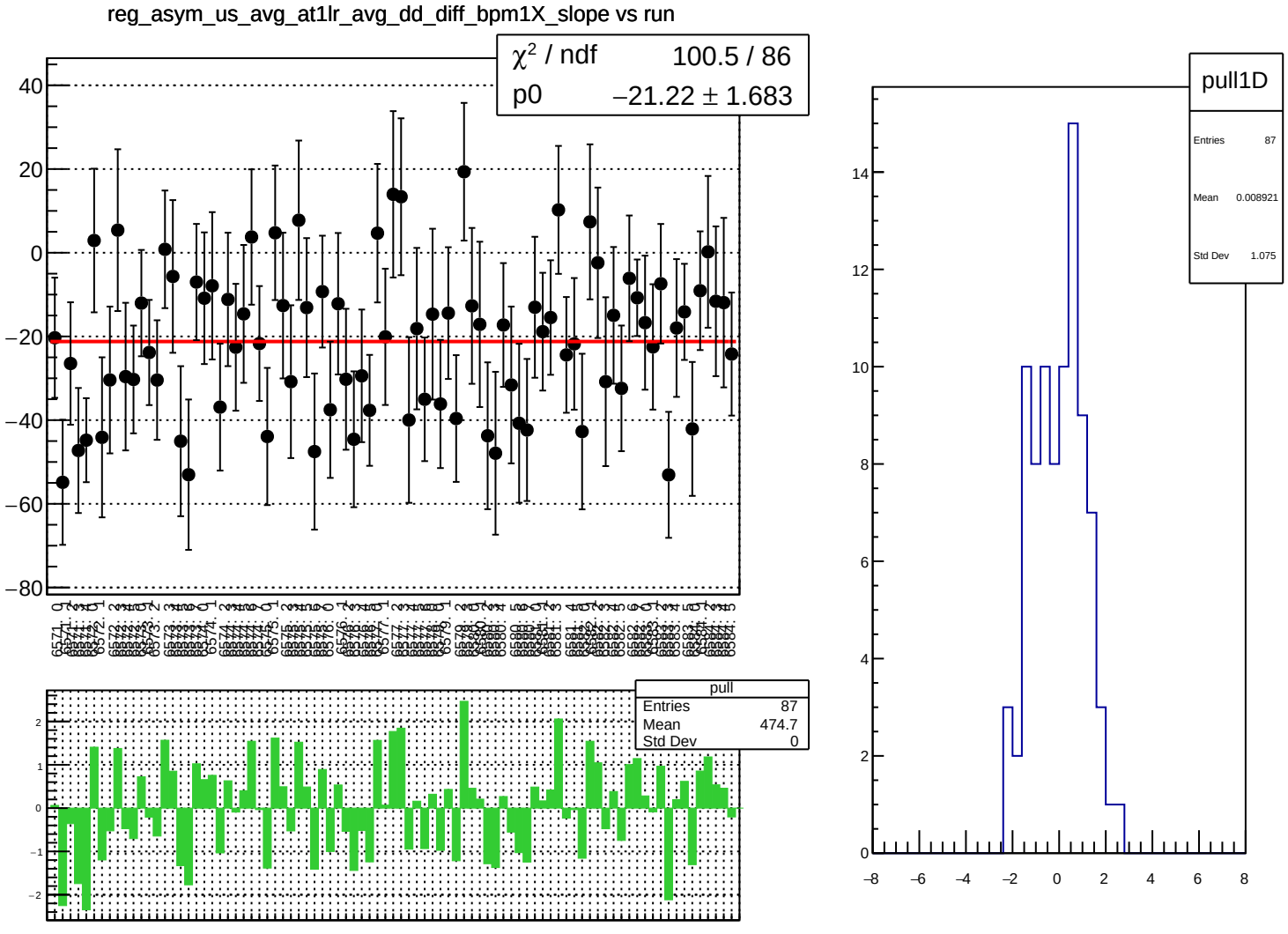

pull1D
Entries 87
Mean 0.04046
Std Dev 1.196

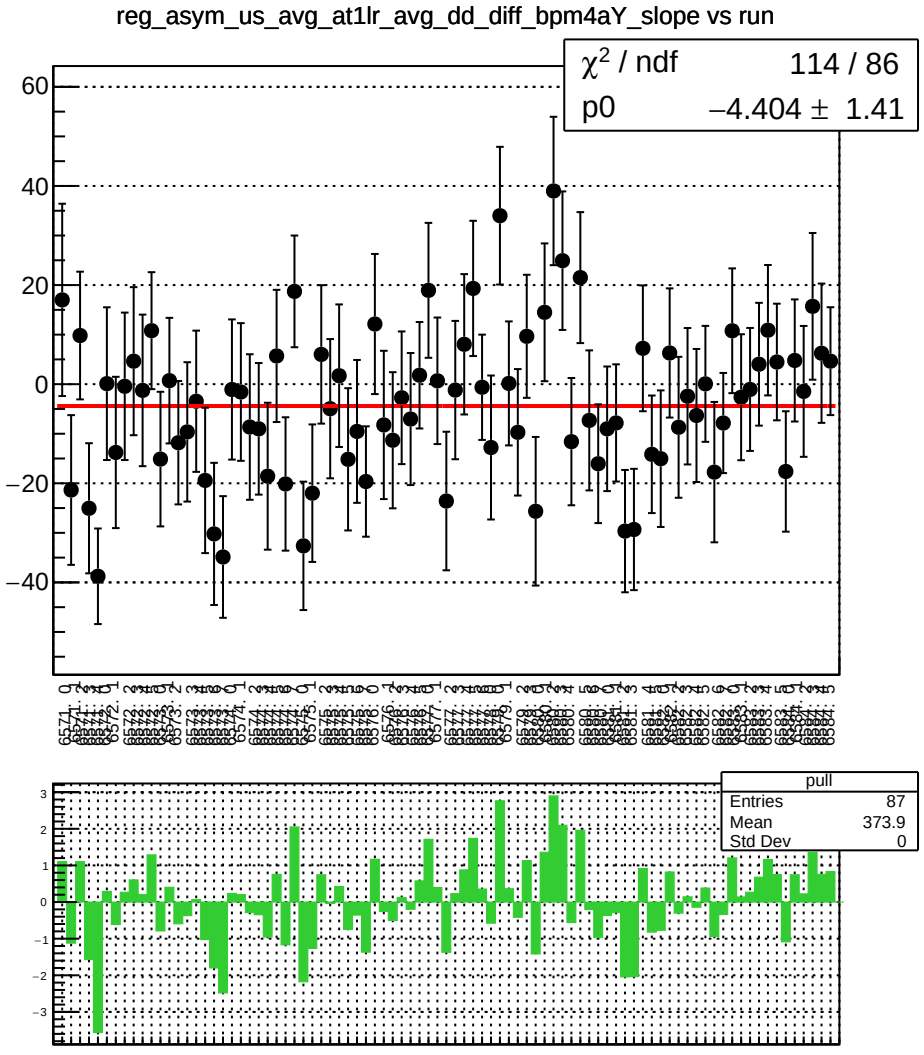

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 128.7 / 86
p0 128.8 ± 3.201
250
200
150
100
50
pull
Entries 87
Mean −9.329
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.05914
Std Dev 1.215
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

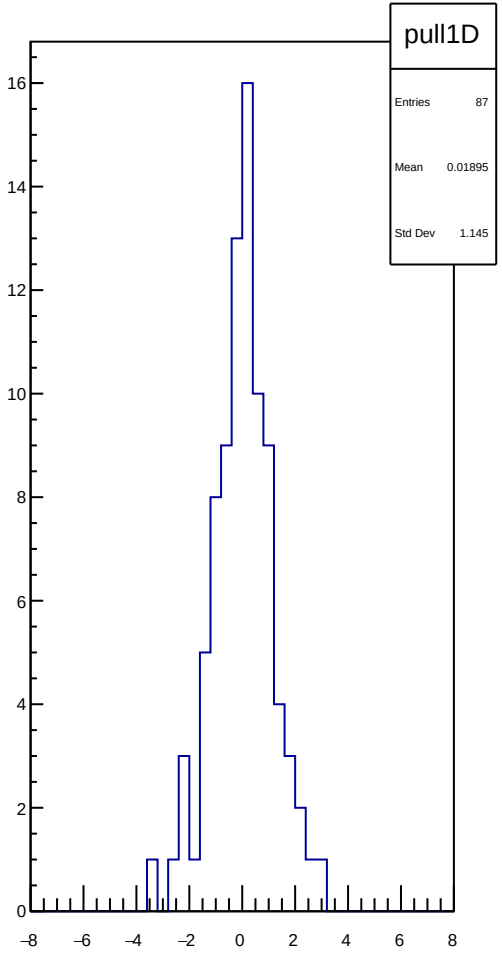

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 172 / 86
p0 9.565 ± 3.112
150
100
50
0
−50
−100
pull
Entries 87
Mean −317.6
Std Dev 0
3
2
1
0
−1
−2
−3

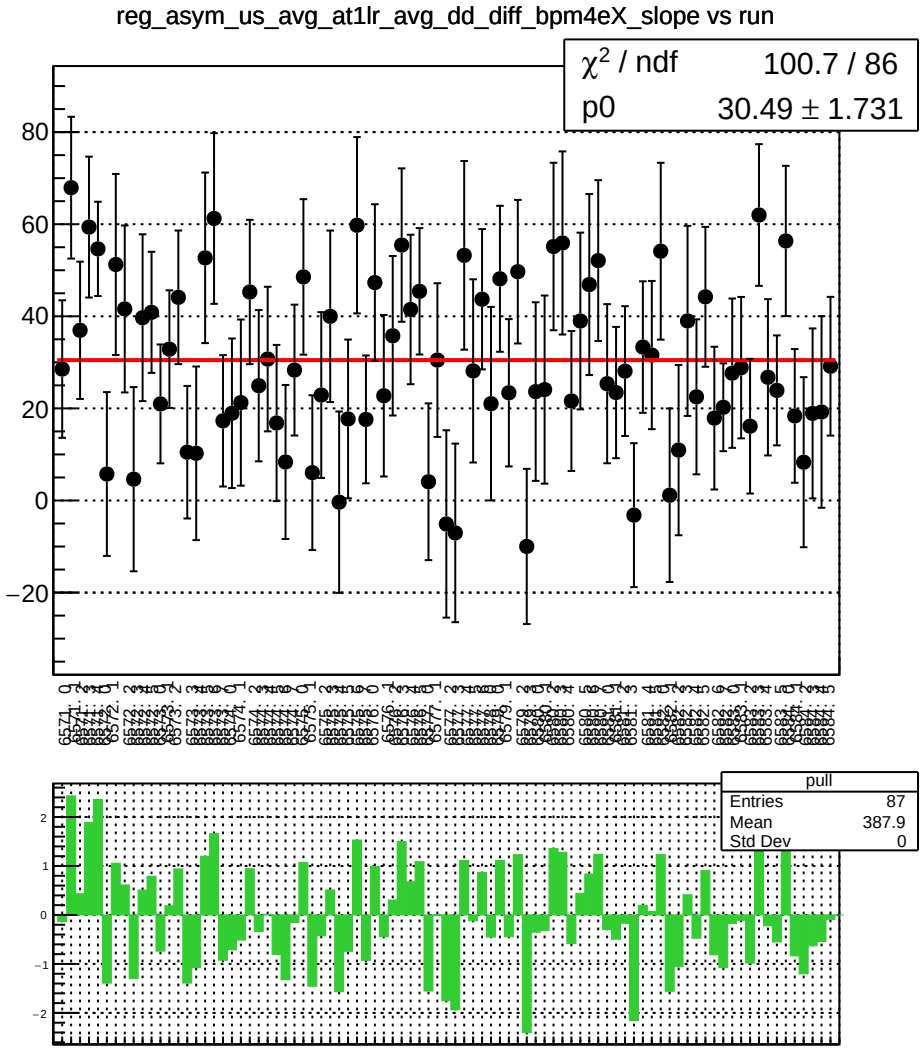

pull1D
Entries 87
Mean −0.05608
Std Dev 1.405
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

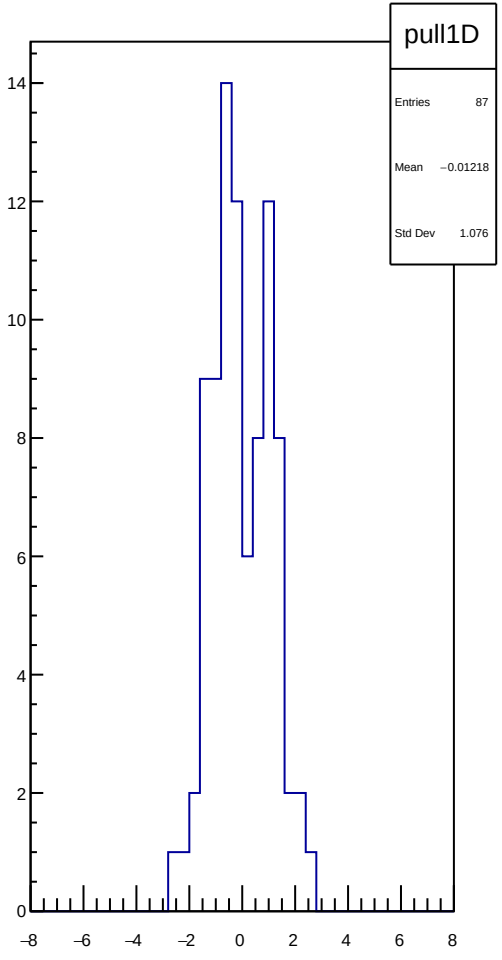

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 985.7 / 86
p0 −89.9 ± 0.1427
pull
Entries 87
Mean −113.6
Std Dev 0
pull1D
Entries 87
Mean 0.3525
Std Dev 2.417

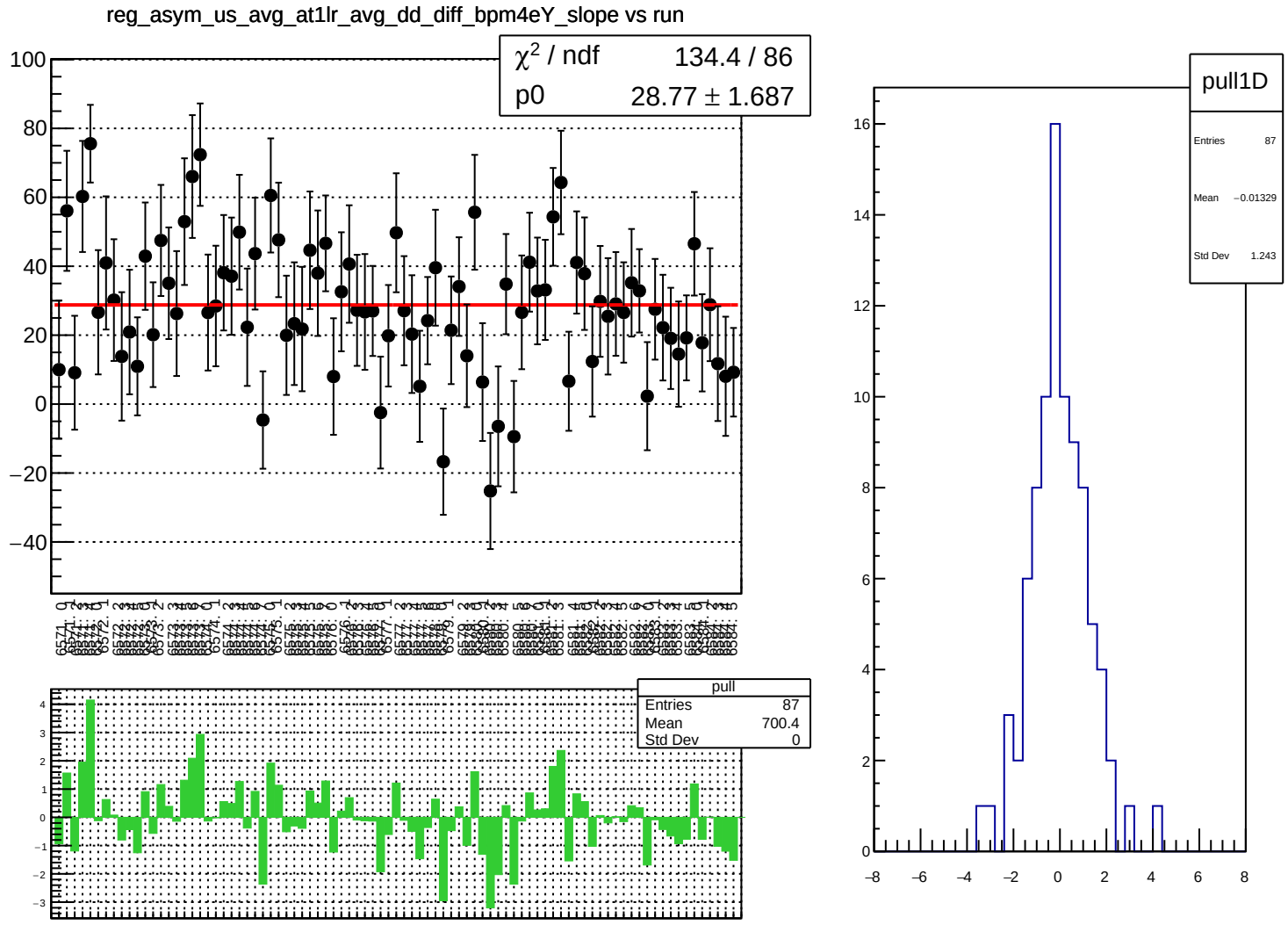

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 100.5 / 86
p0 −21.22 ± 1.683
pull
Entries 87
Mean 474.7
Std Dev 0
pull1D
Entries 87
Mean 0.008921
Std Dev 1.075

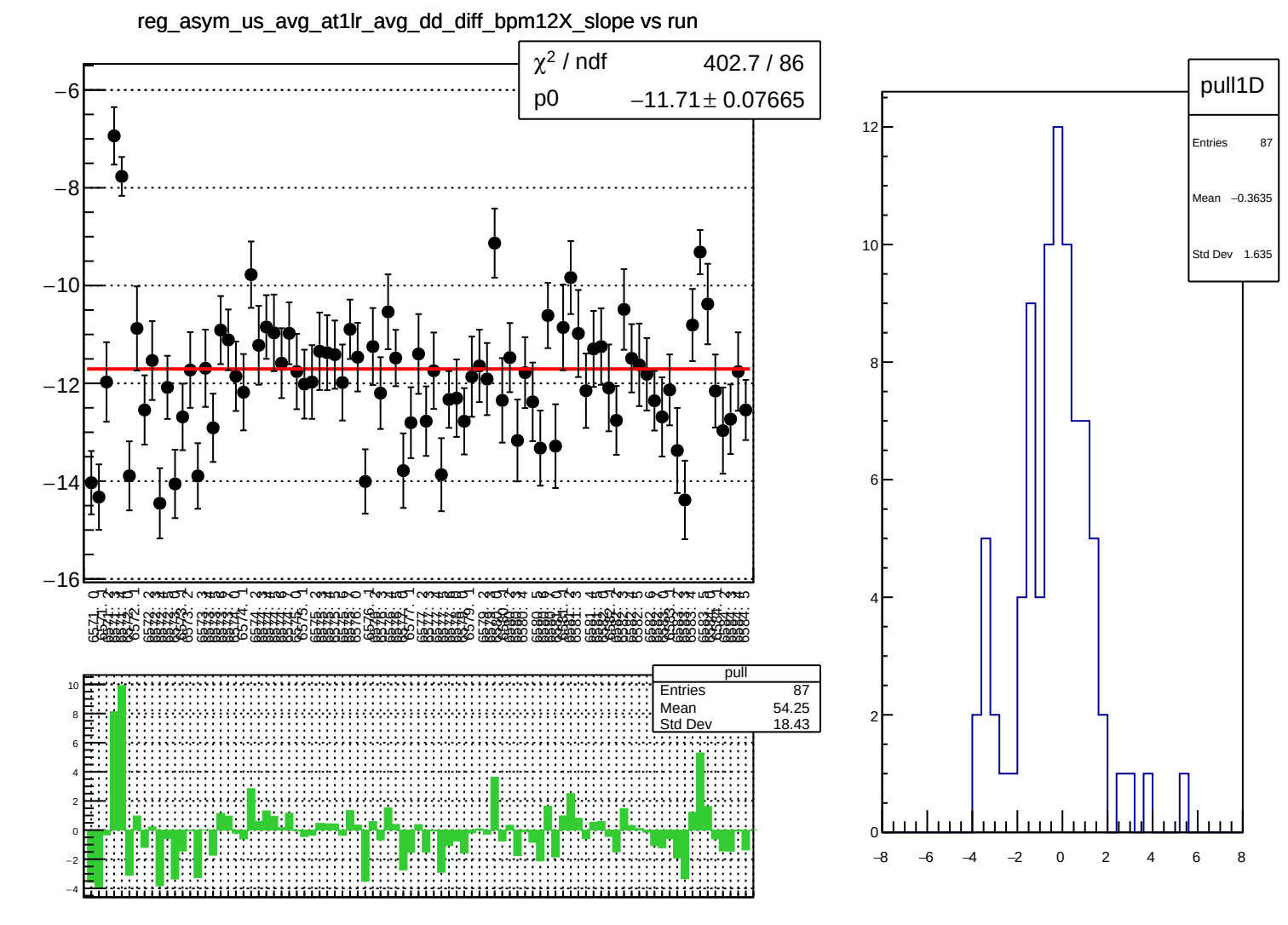

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 114 / 86
p0 −4.404 ± 1.41
pull
Entries 87
Mean 373.9
Std Dev 0

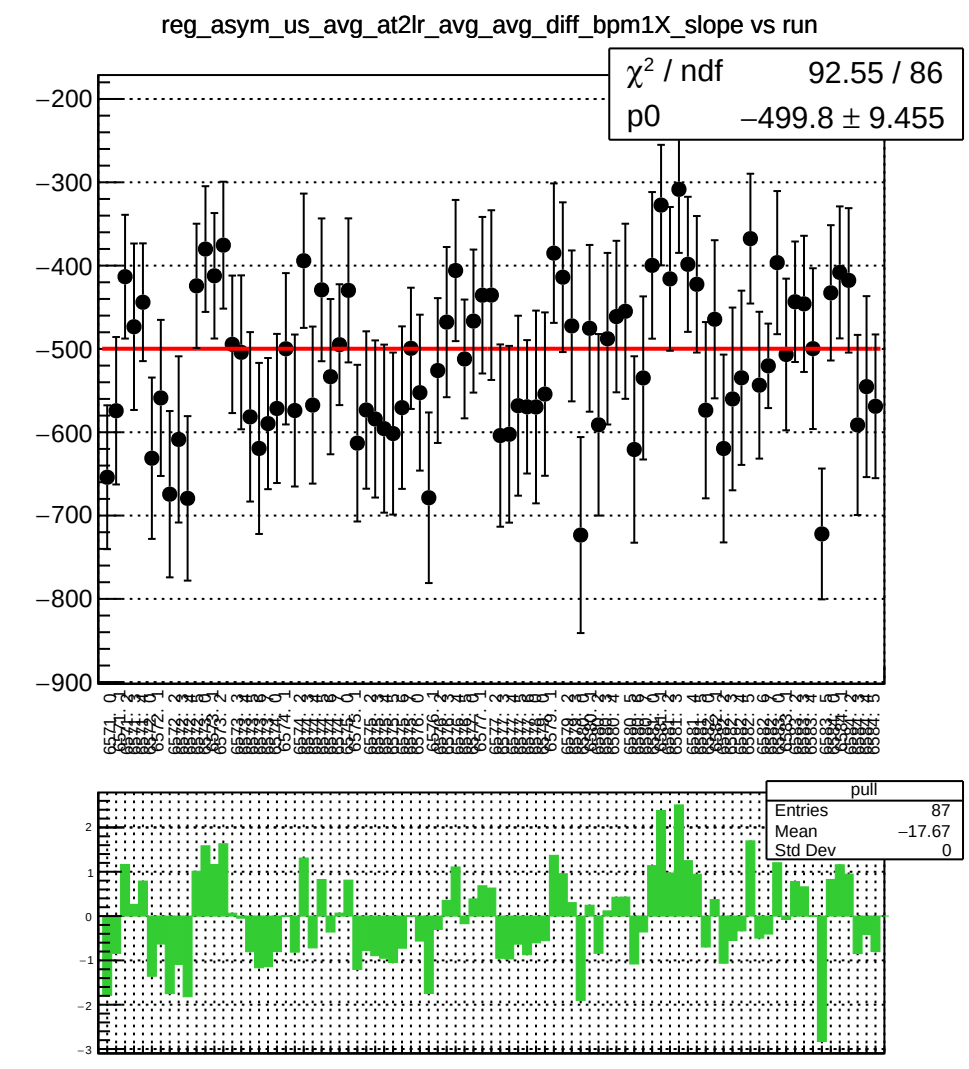

pull1D
Entries 87
Mean 0.01895
Std Dev 1.145

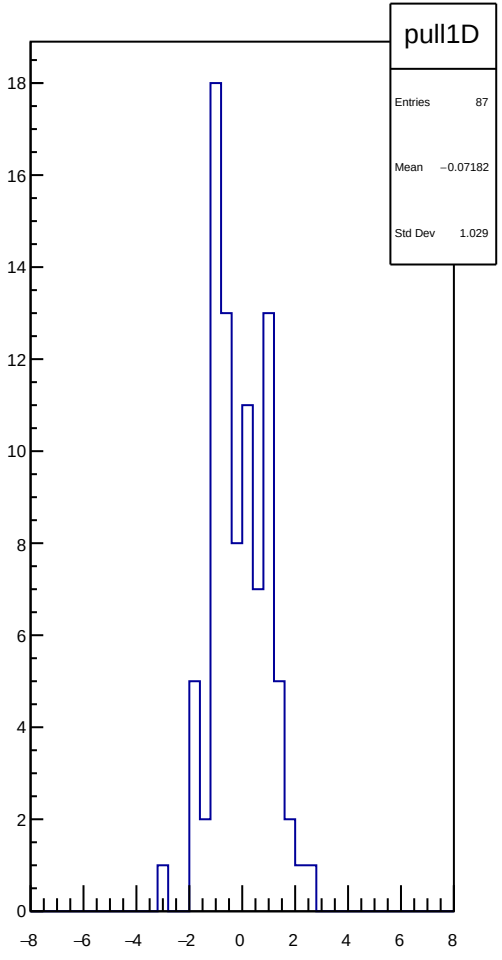

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 100.7 / 86
p0 30.49 ± 1.731
pull
Entries 87
Mean 387.9
Std Dev 0

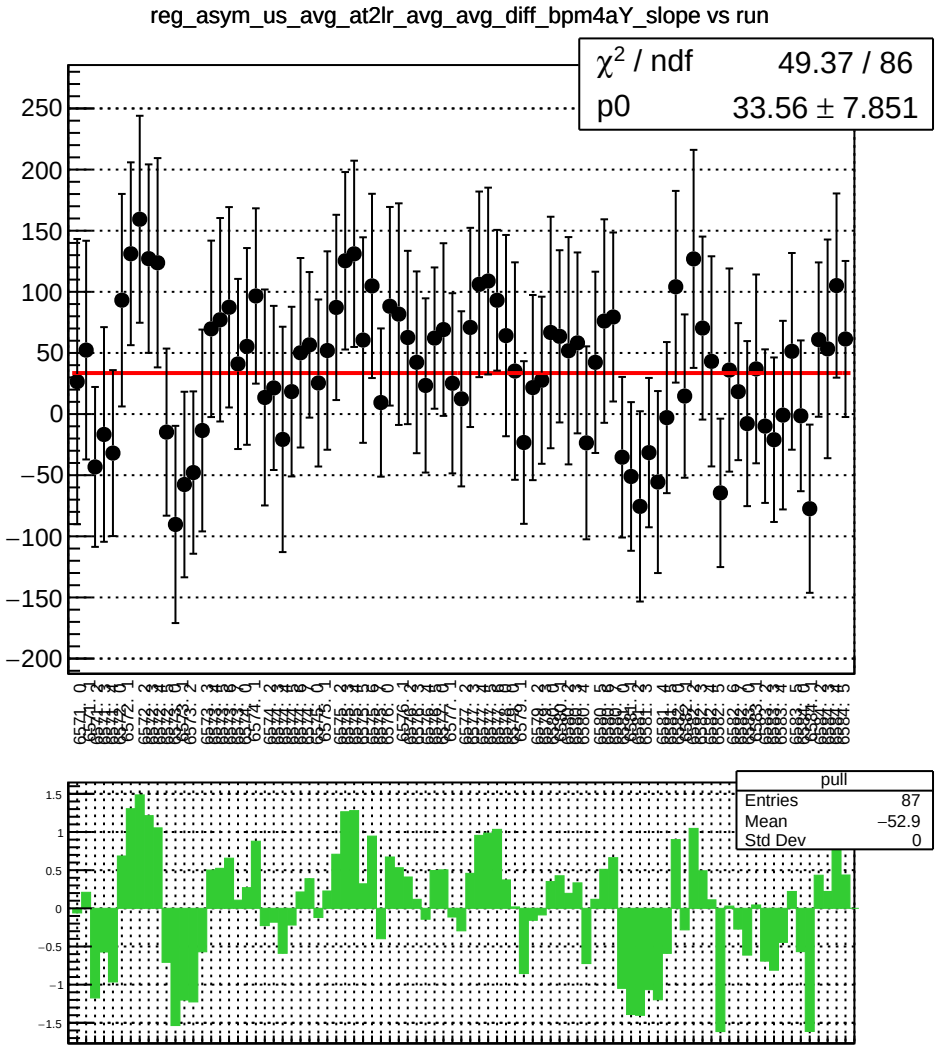

pull1D
Entries 87
Mean −0.01218
Std Dev 1.076

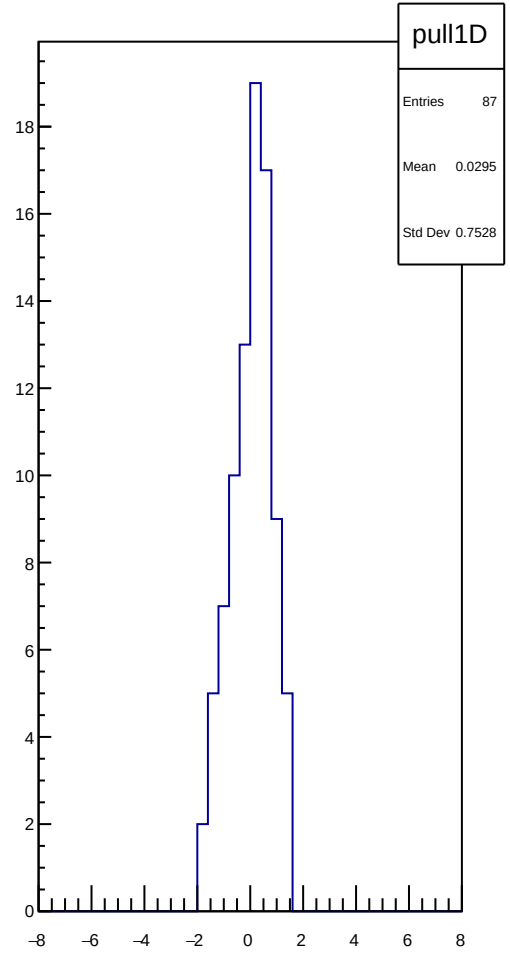

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 134.4 / 86
p0 28.77 ± 1.687
pull
Entries 87
Mean 700.4
Std Dev 0
pull1D
Entries 87
Mean −0.01329
Std Dev 1.243

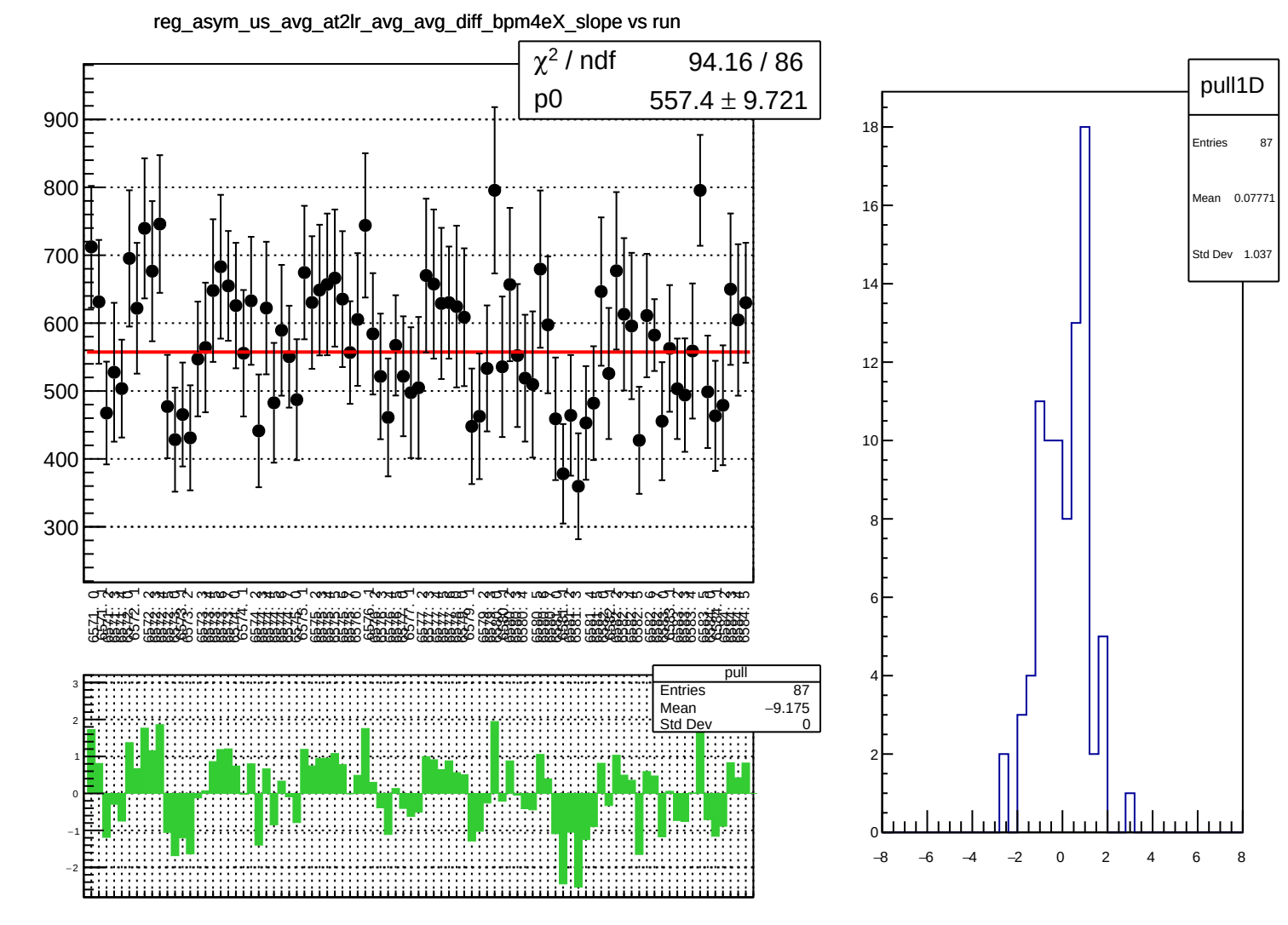

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 402.7 / 86
p0 −11.71 ± 0.07665
pull
Entries 87
Mean 54.25
Std Dev 18.43
pull1D
Entries 87
Mean −0.3635
Std Dev 1.635

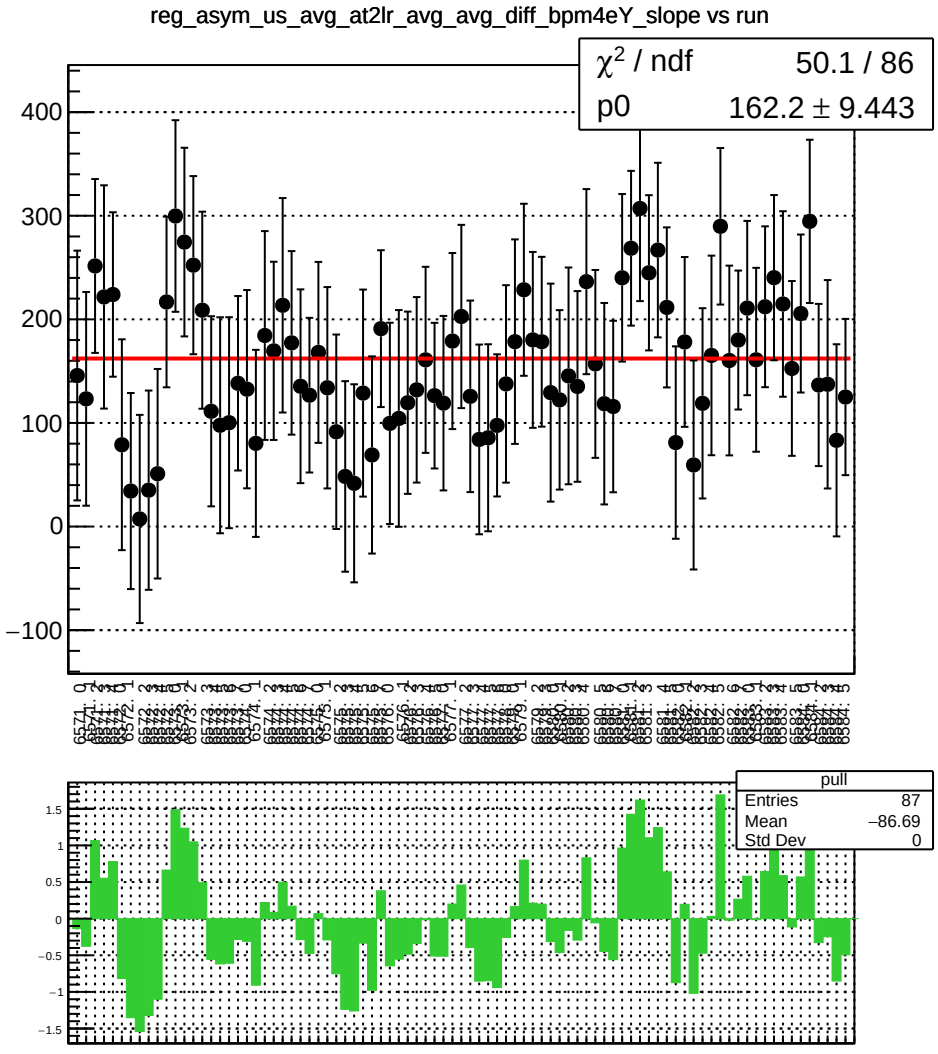

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 92.55 / 86
p0 −499.8 ± 9.455
pull
Entries 87
Mean −17.67
Std Dev 0

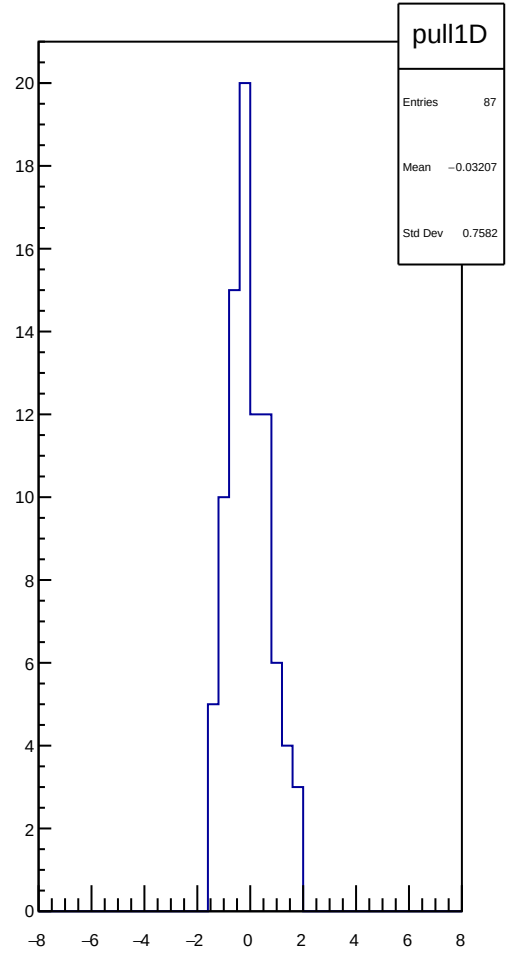

pull1D
Entries 87
Mean −0.07182
Std Dev 1.029

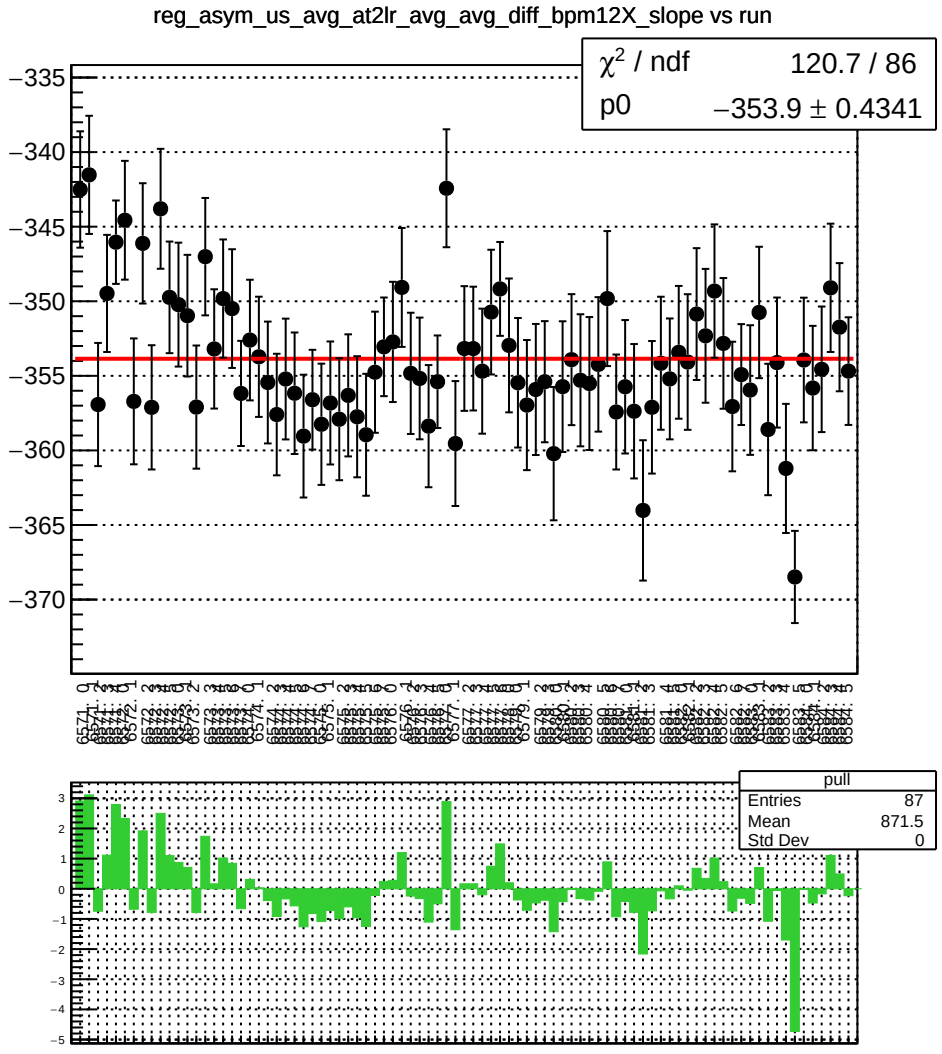

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.37 / 86
p0 33.56 ± 7.851
pull
Entries 87
Mean −52.9
Std Dev 0

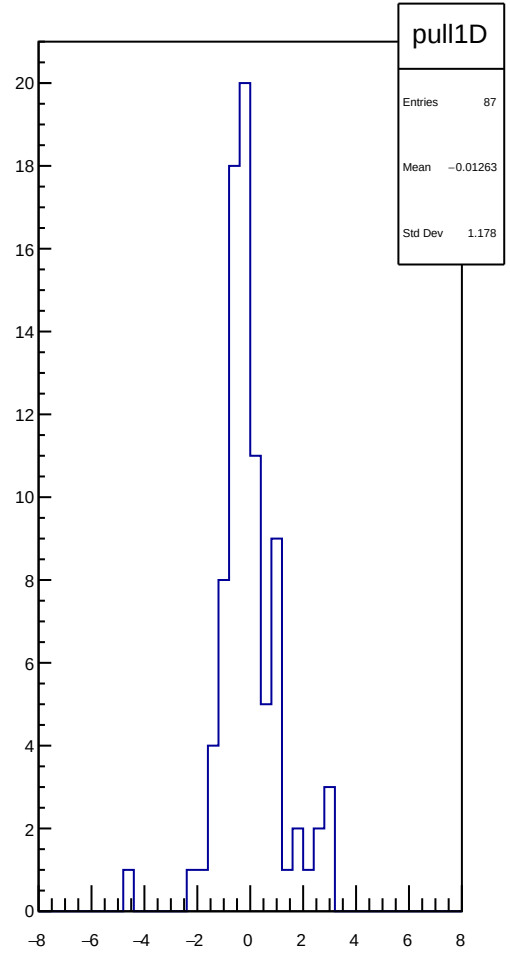

pull1D
Entries 87
Mean 0.0295
Std Dev 0.7528

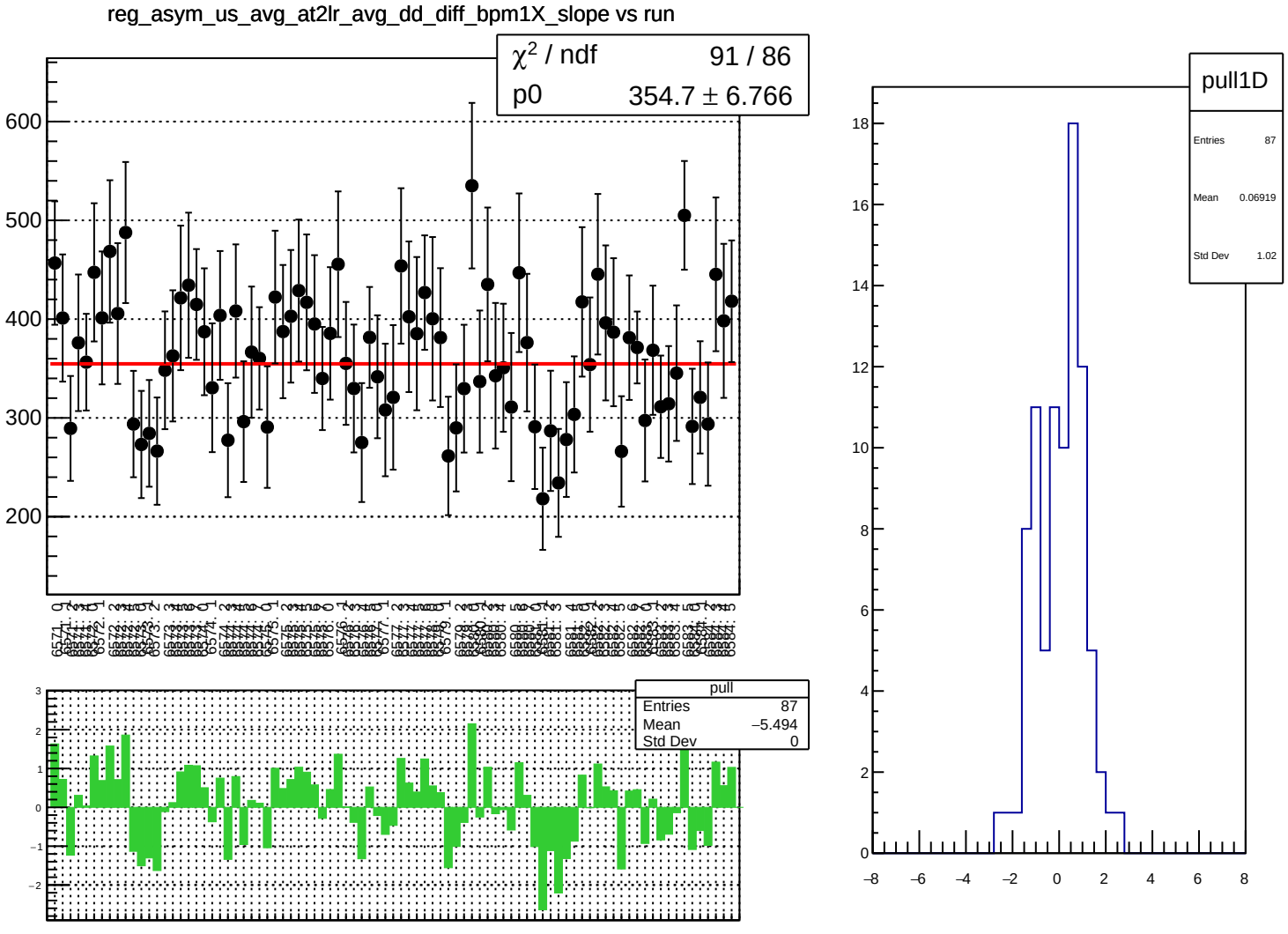

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 94.16 / 86
p0 557.4 ± 9.721
900
800
700
600
500
400
300
pull
Entries 87
Mean −9.175
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.07771
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

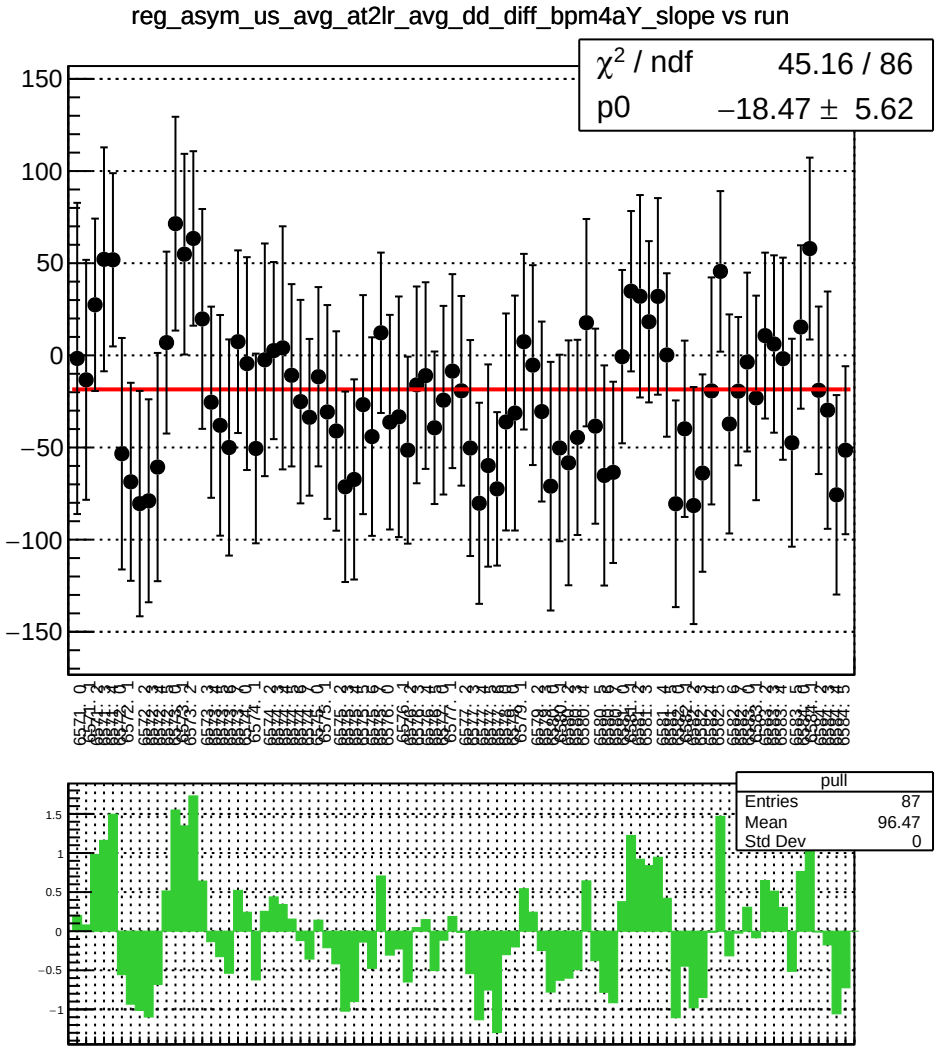

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.1 / 86
p0 162.2 ± 9.443
pull
Entries 87
Mean −86.69
Std Dev 0

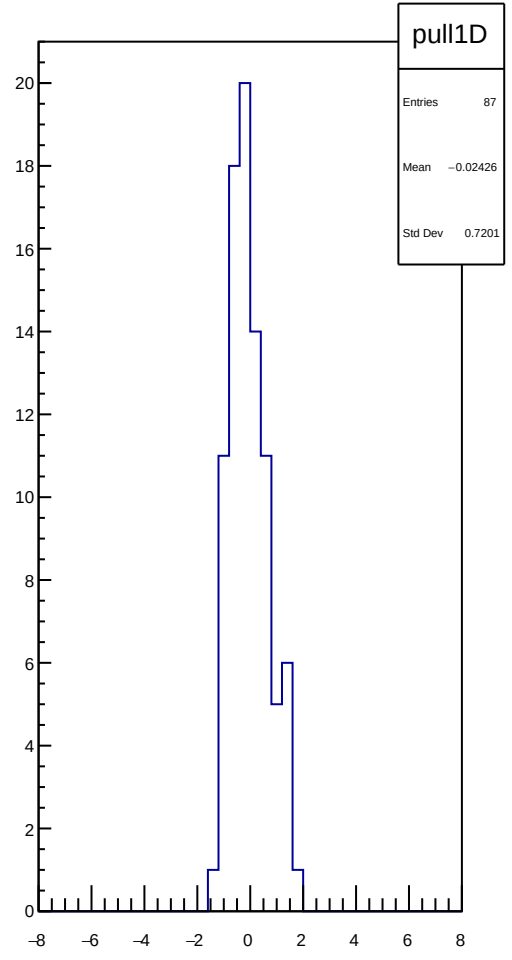

pull1D
Entries 87
Mean −0.03207
Std Dev 0.7582

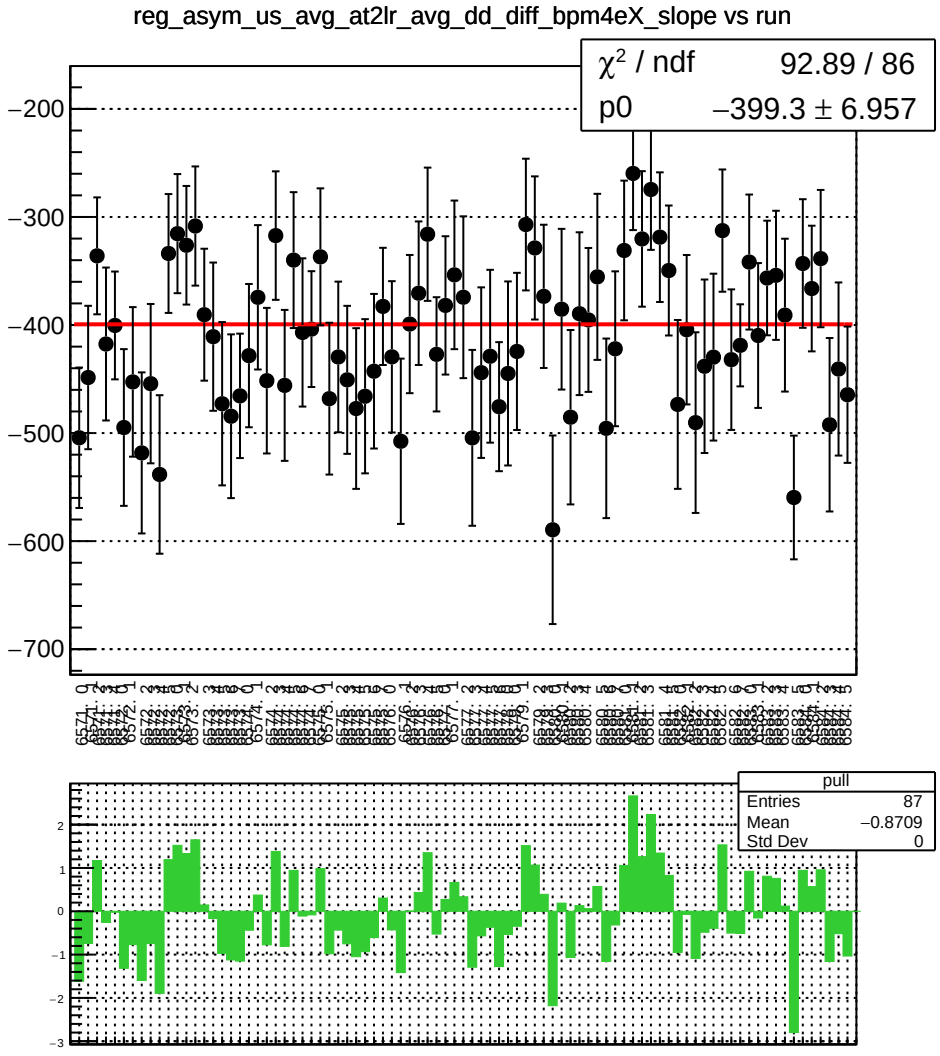

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 120.7 / 86
p0 −353.9 ± 0.4341
pull
Entries 87
Mean 871.5
Std Dev 0

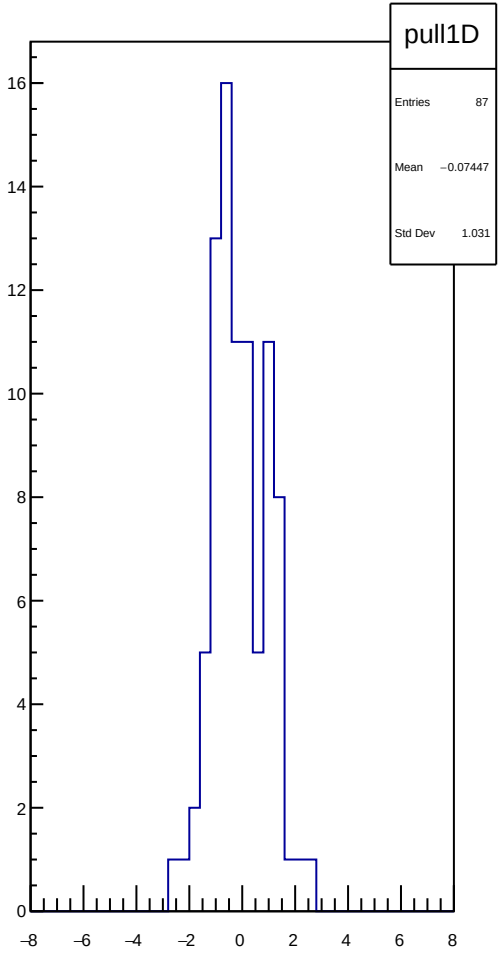

pull1D
Entries 87
Mean −0.01263
Std Dev 1.178

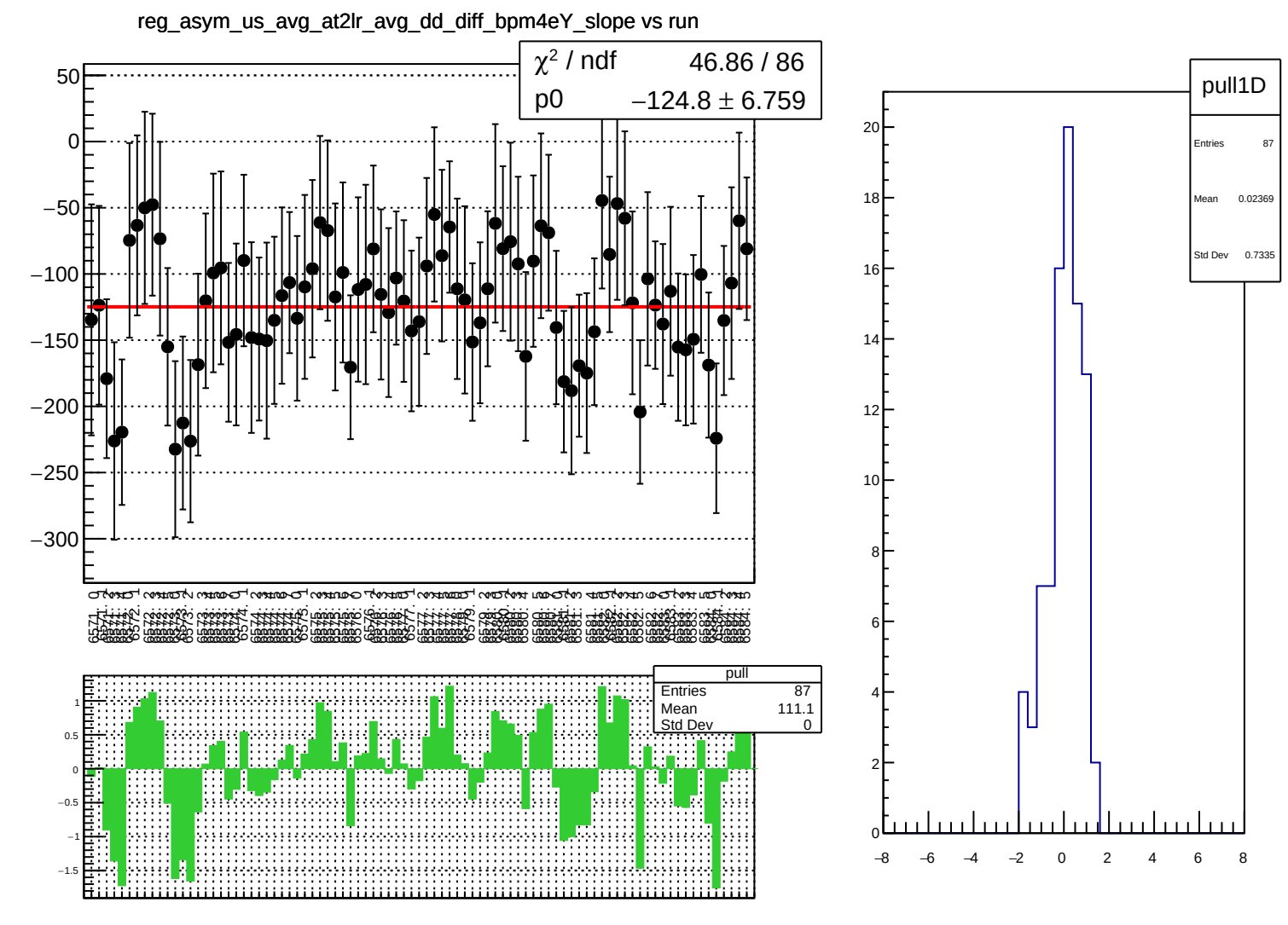

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 91 / 86
p0 354.7 ± 6.766
pull
Entries 87
Mean −5.494
Std Dev 0
pull1D
Entries 87
Mean 0.06919
Std Dev 1.02

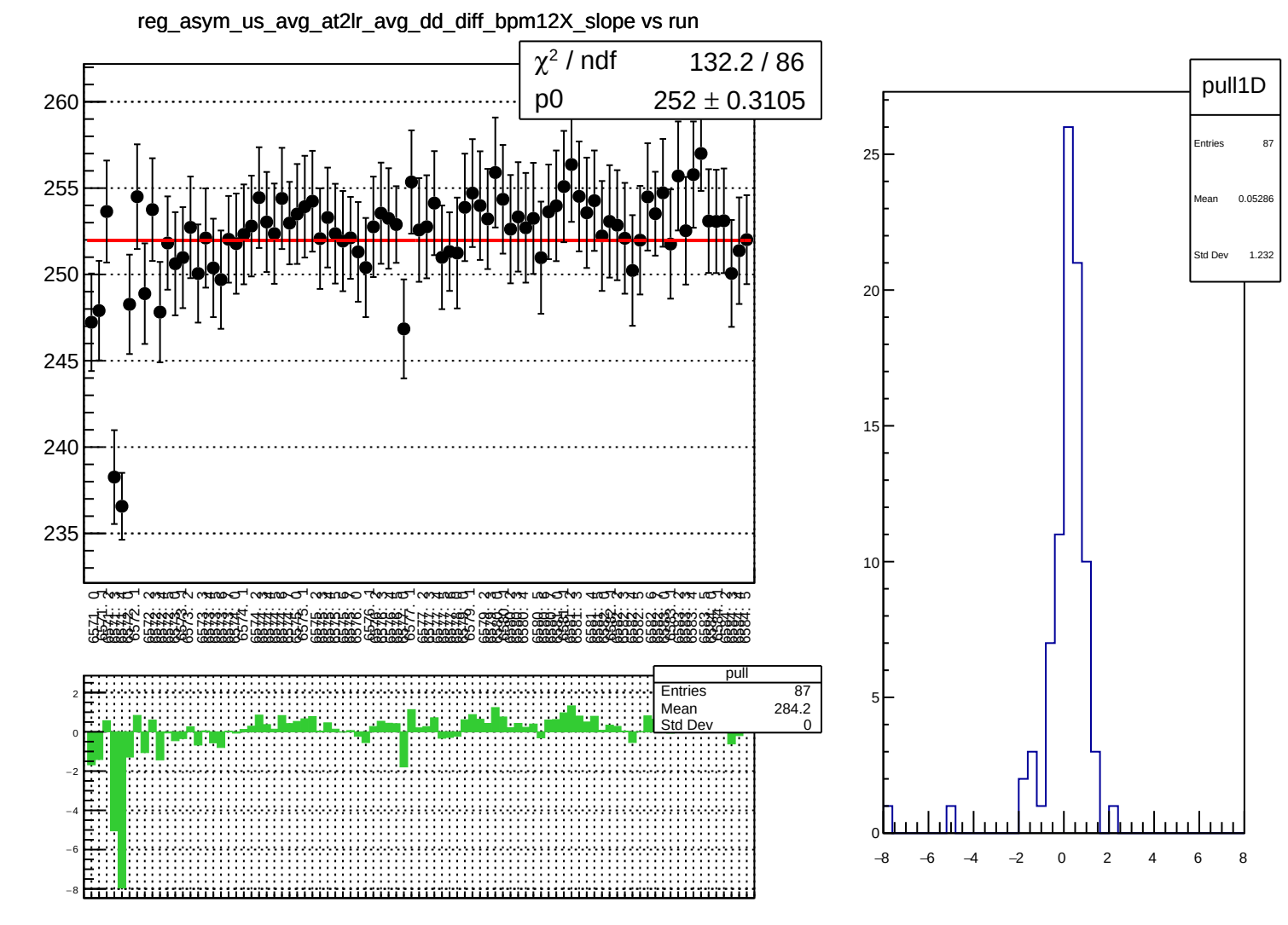

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.16 / 86
p0 −18.47 ± 5.62
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 96.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1

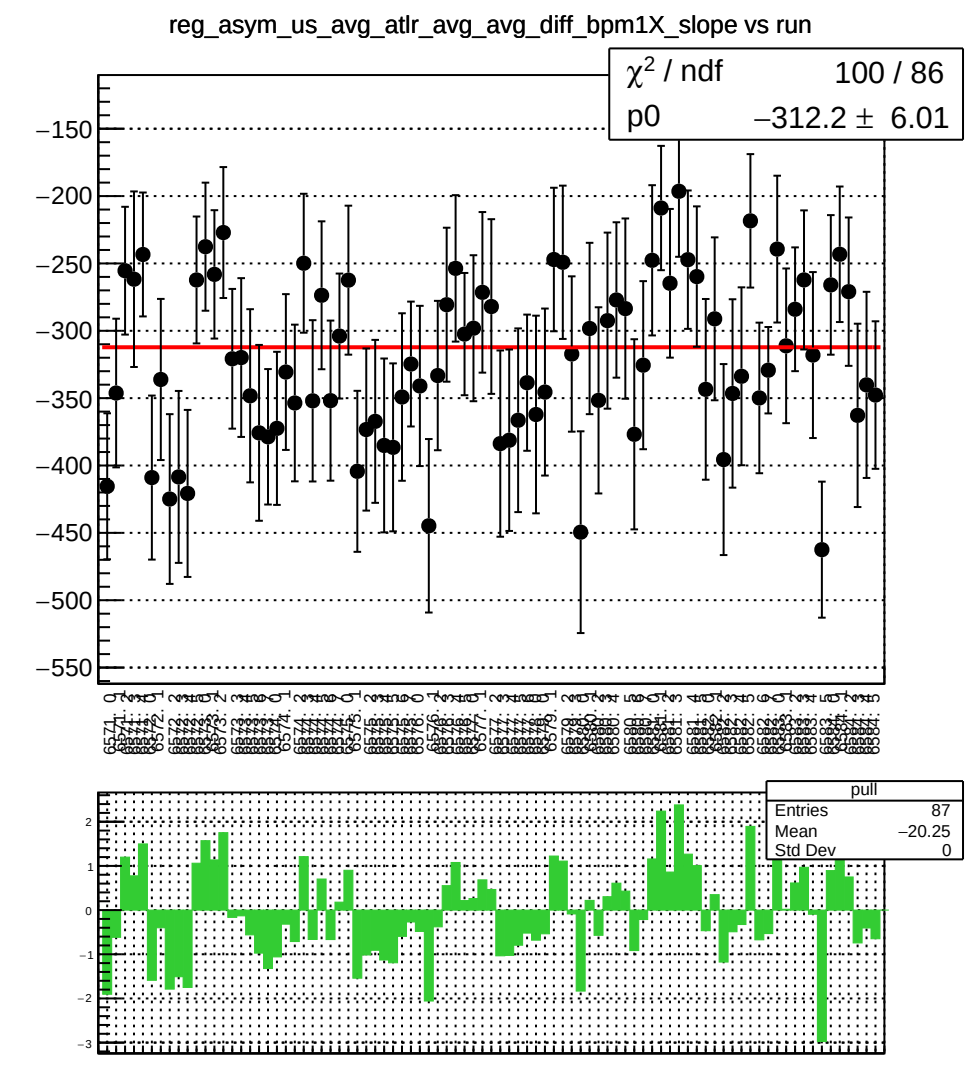

pull1D
Entries 87
Mean −0.02426
Std Dev 0.7201
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

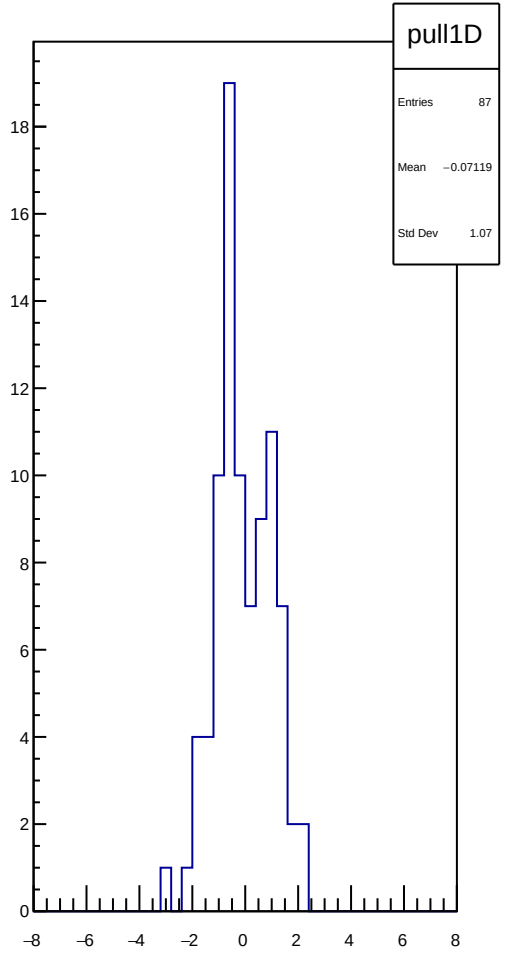

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.89 / 86
p0 −399.3 ± 6.957
pull
Entries 87
Mean −0.8709
Std Dev 0

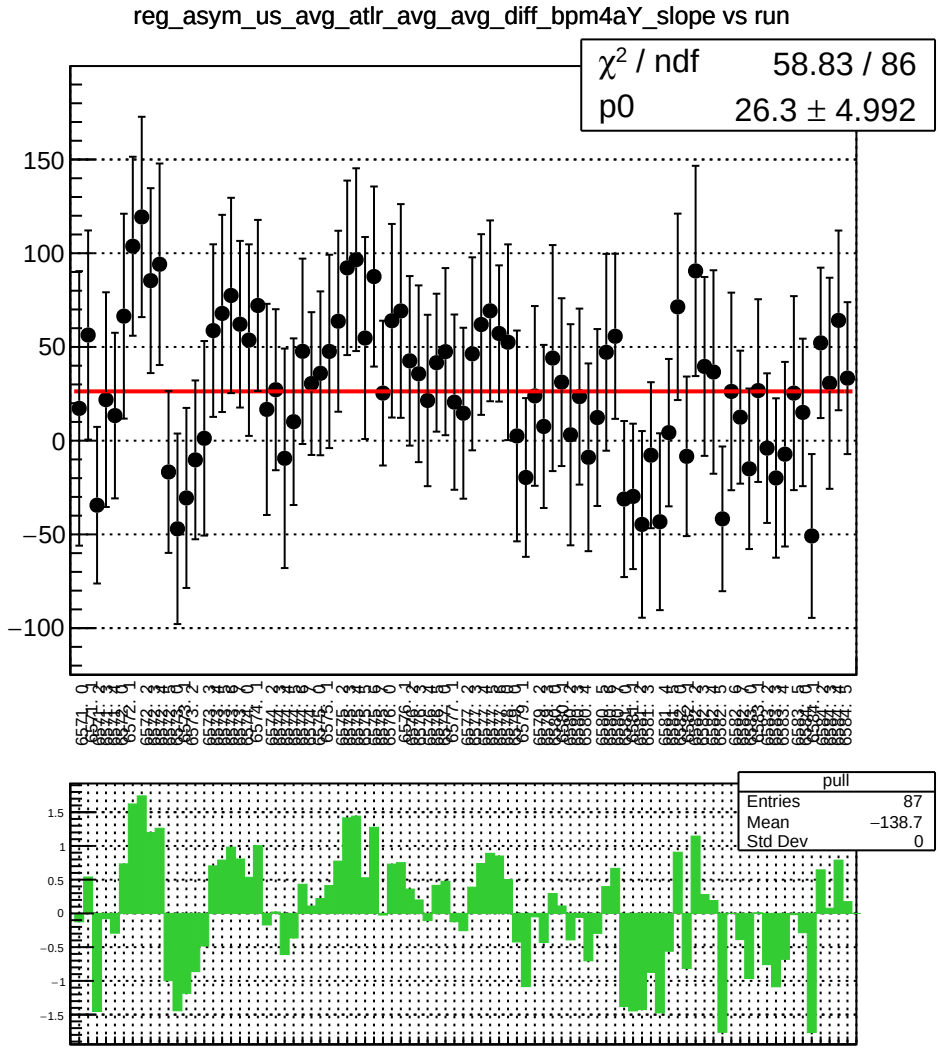

pull1D
Entries 87
Mean −0.07447
Std Dev 1.031

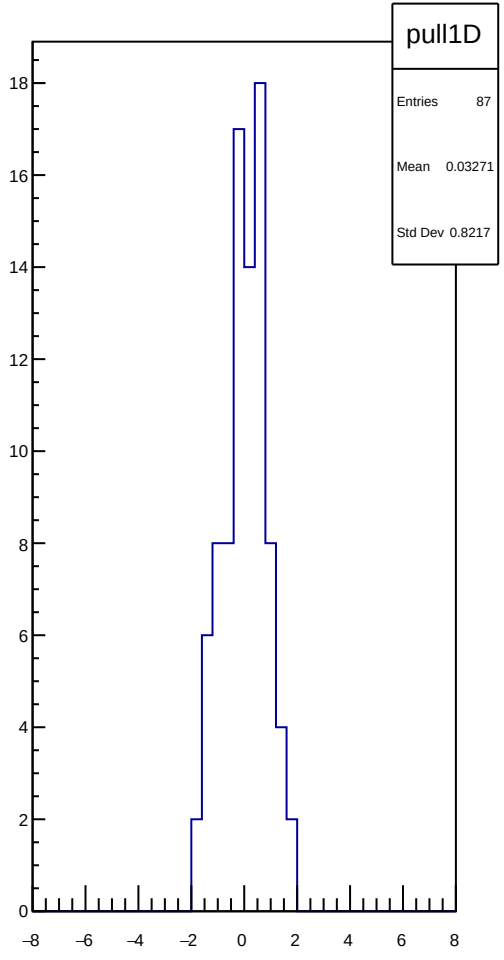

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.86 / 86
p0 −124.8 ± 6.759
pull
Entries 87
Mean 111.1
Std Dev 0
pull1D
Entries 87
Mean 0.02369
Std Dev 0.7335

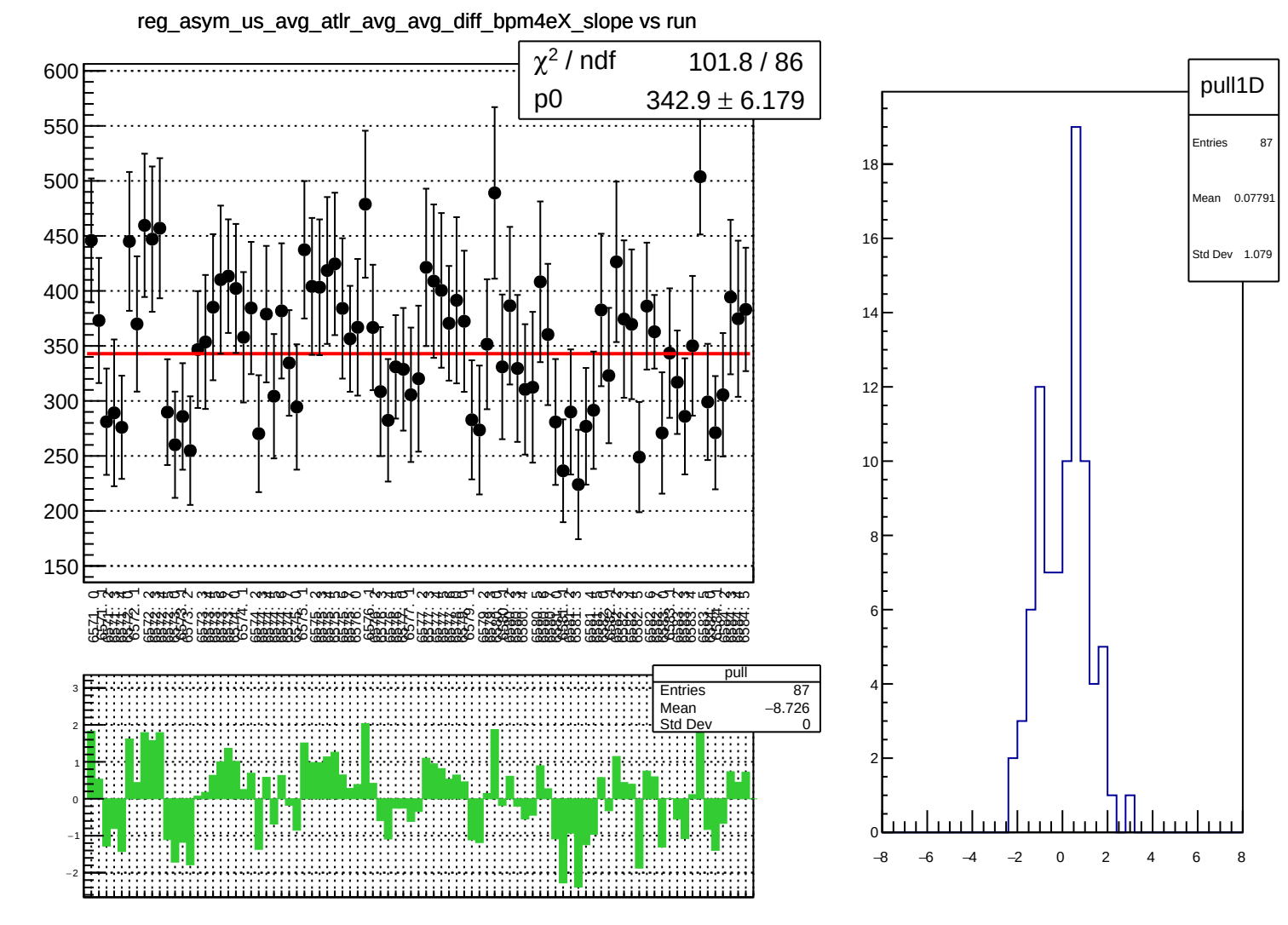

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 132.2 / 86
p0 252 ± 0.3105
260
255
250
245
240
235
pull
Entries 87
Mean 284.2
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 87
Mean 0.05286
Std Dev 1.232
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

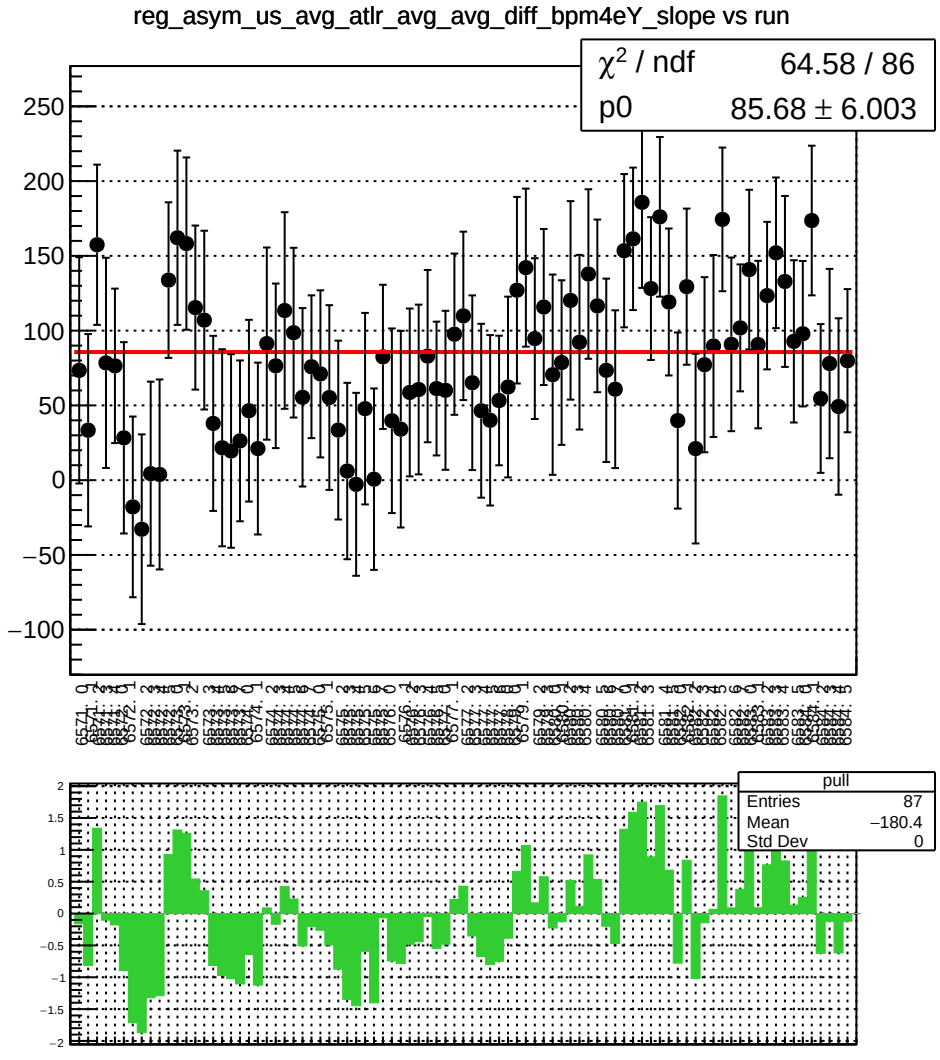

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 100 / 86
p0 −312.2 ± 6.01
pull
Entries 87
Mean −20.25
Std Dev 0

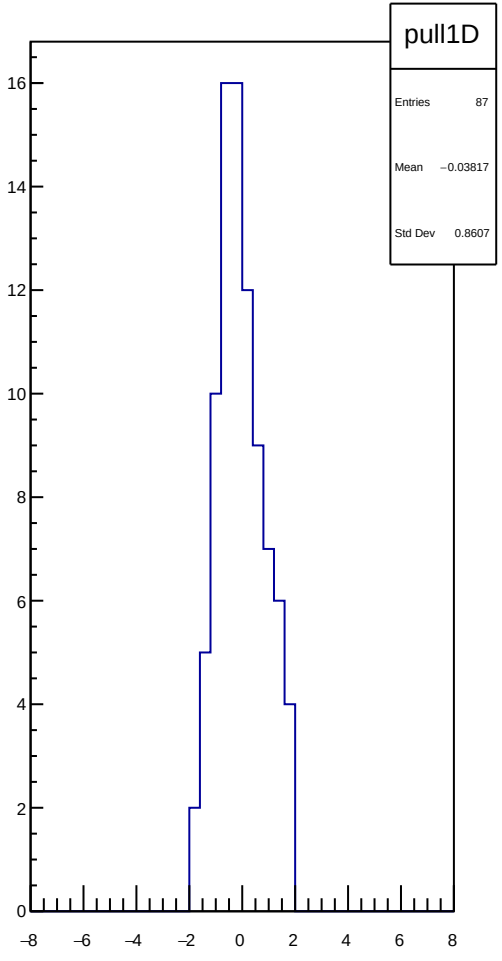

pull1D
Entries 87
Mean −0.07119
Std Dev 1.07

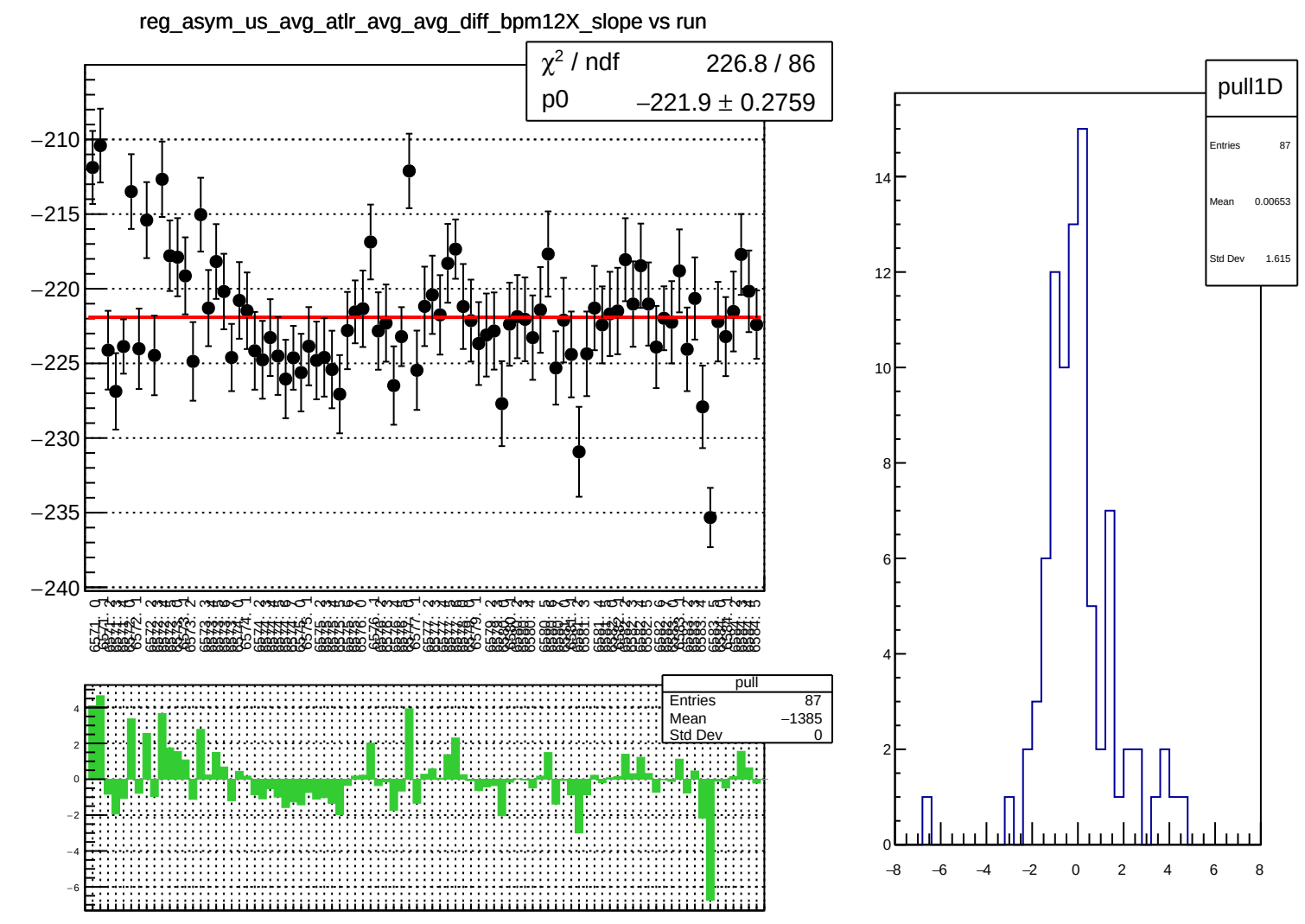

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.83 / 86
p0 26.3 ± 4.992
150
100
50
0
−50
−100
pull
Entries 87
Mean −138.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

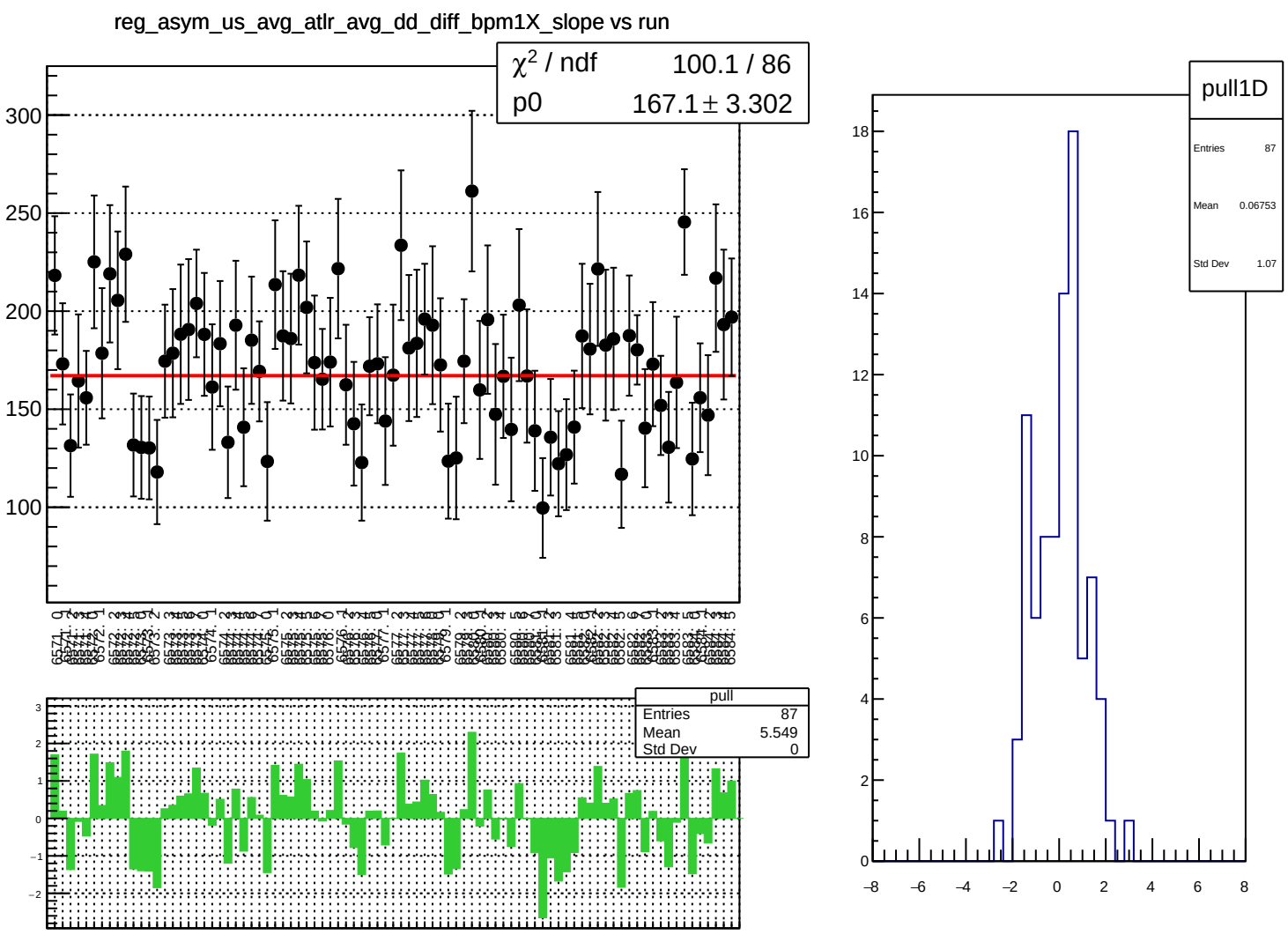

pull1D
Entries 87
Mean 0.03271
Std Dev 0.8217
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

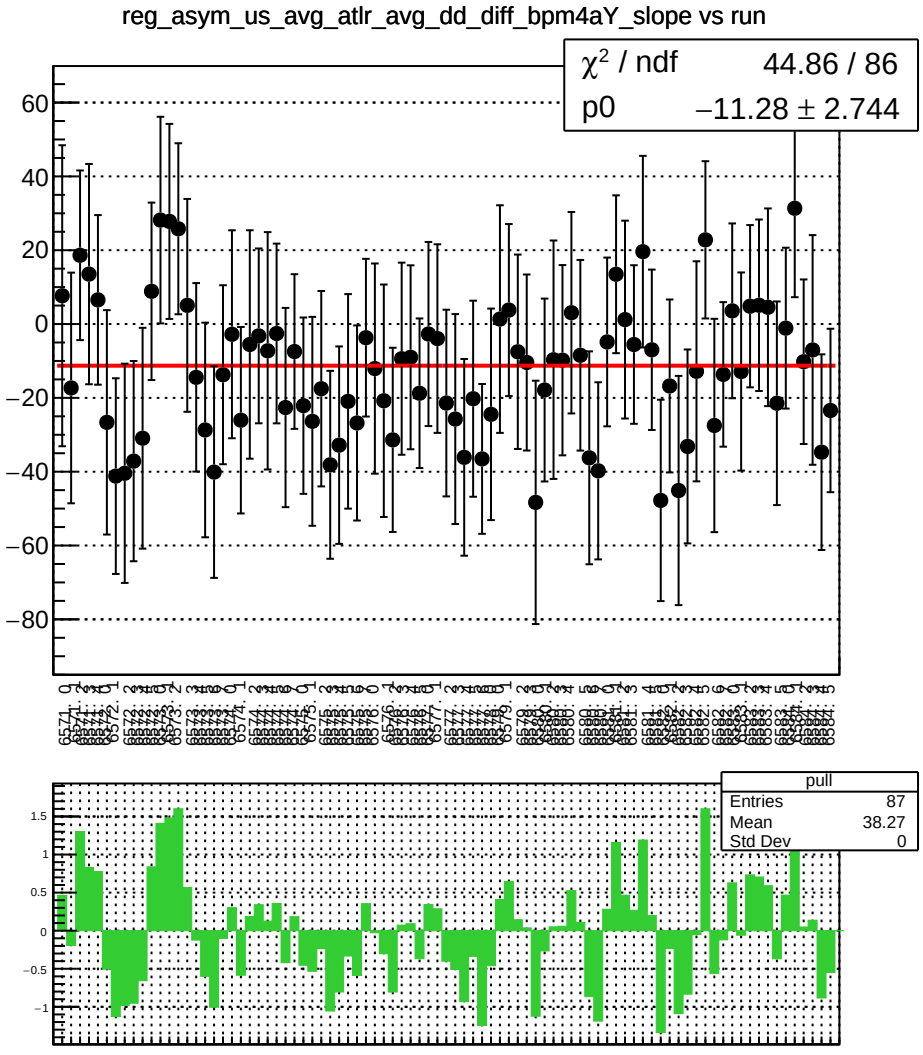

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 101.8 / 86
p0 342.9 ± 6.179
pull
Entries 87
Mean −8.726
Std Dev 0
pull1D
Entries 87
Mean 0.07791
Std Dev 1.079

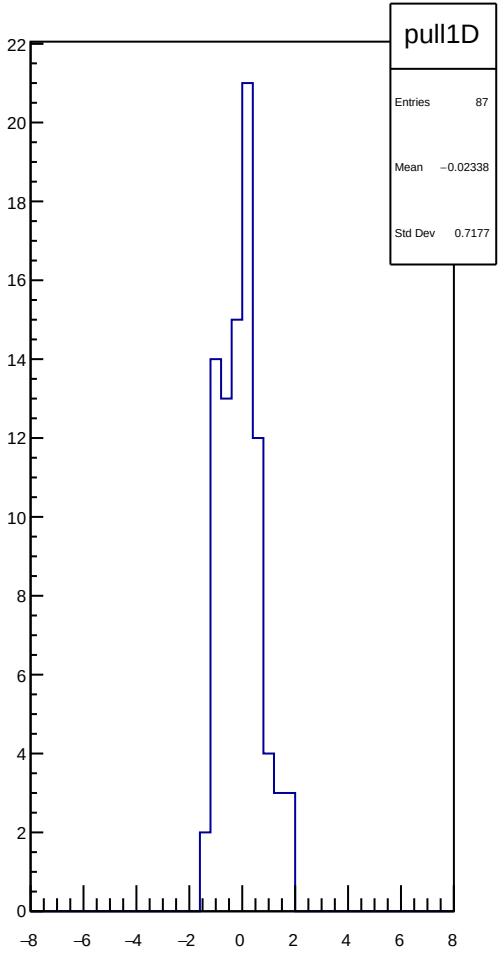

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.58 / 86
p0 85.68 ± 6.003
pull
Entries 87
Mean −180.4
Std Dev 0

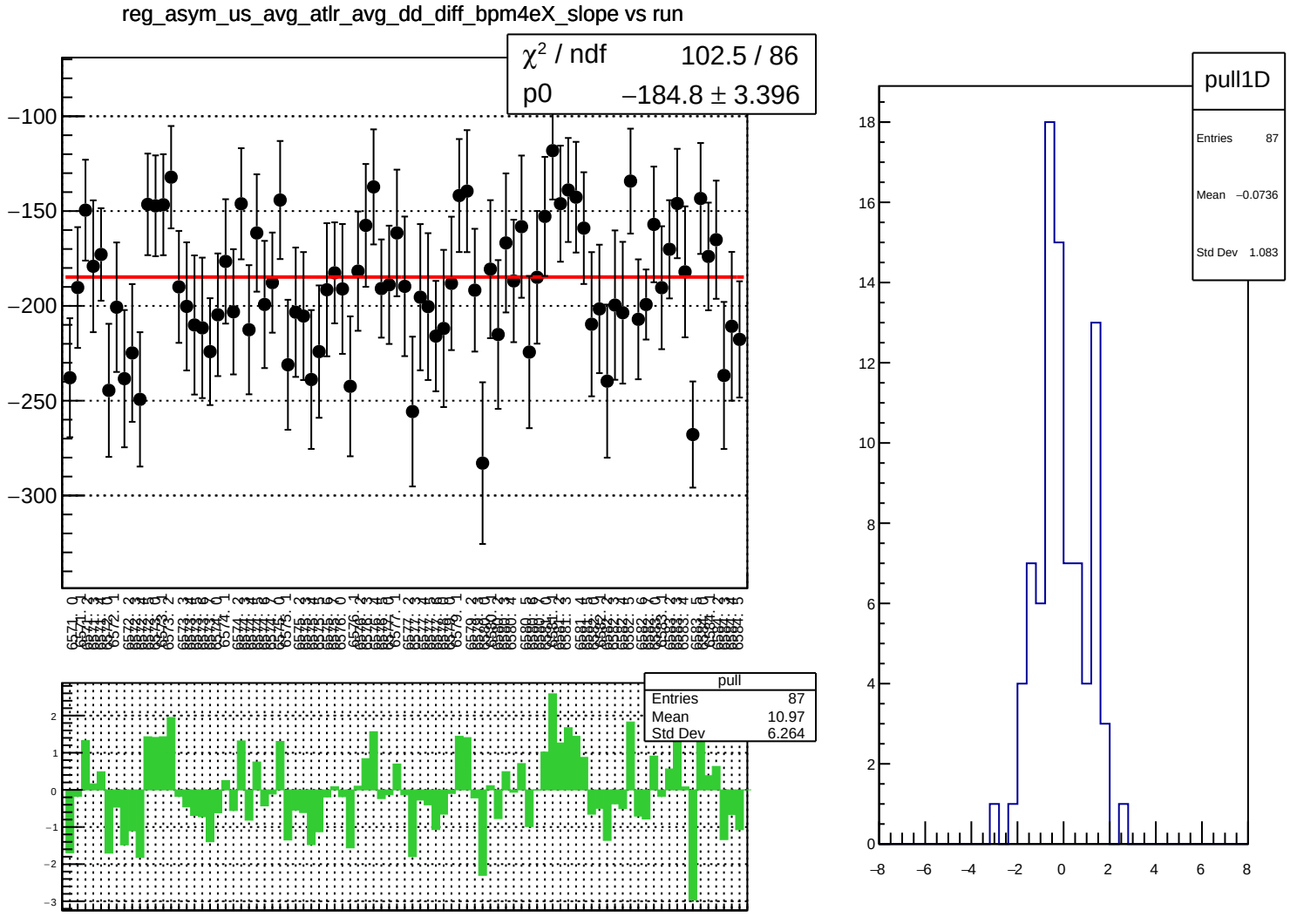

pull1D
Entries 87
Mean −0.03817
Std Dev 0.8607

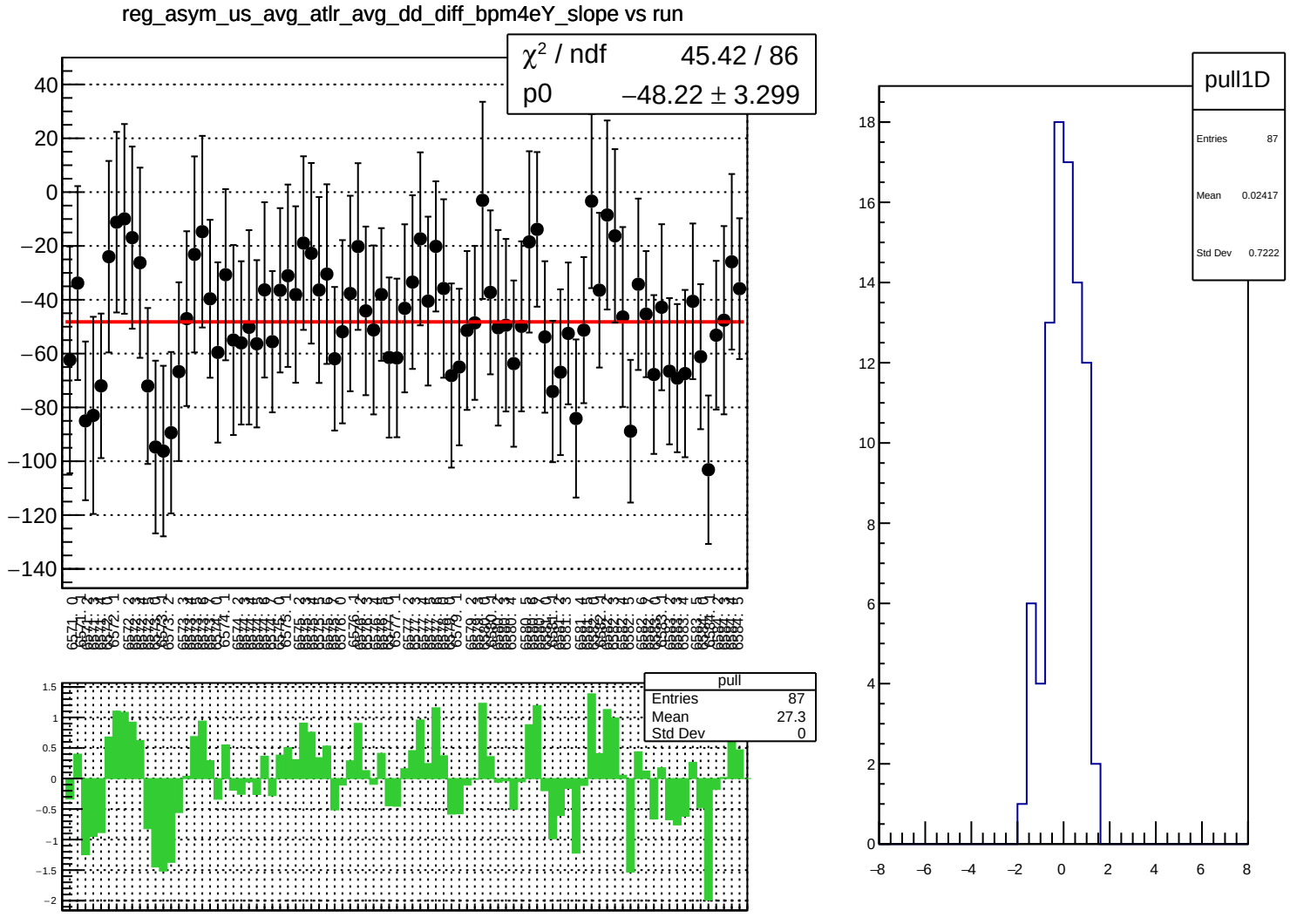

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 226.8 / 86
p0 −221.9 ± 0.2759
pull
Entries 87
Mean −1385
Std Dev 0
pull1D
Entries 87
Mean 0.00653
Std Dev 1.615

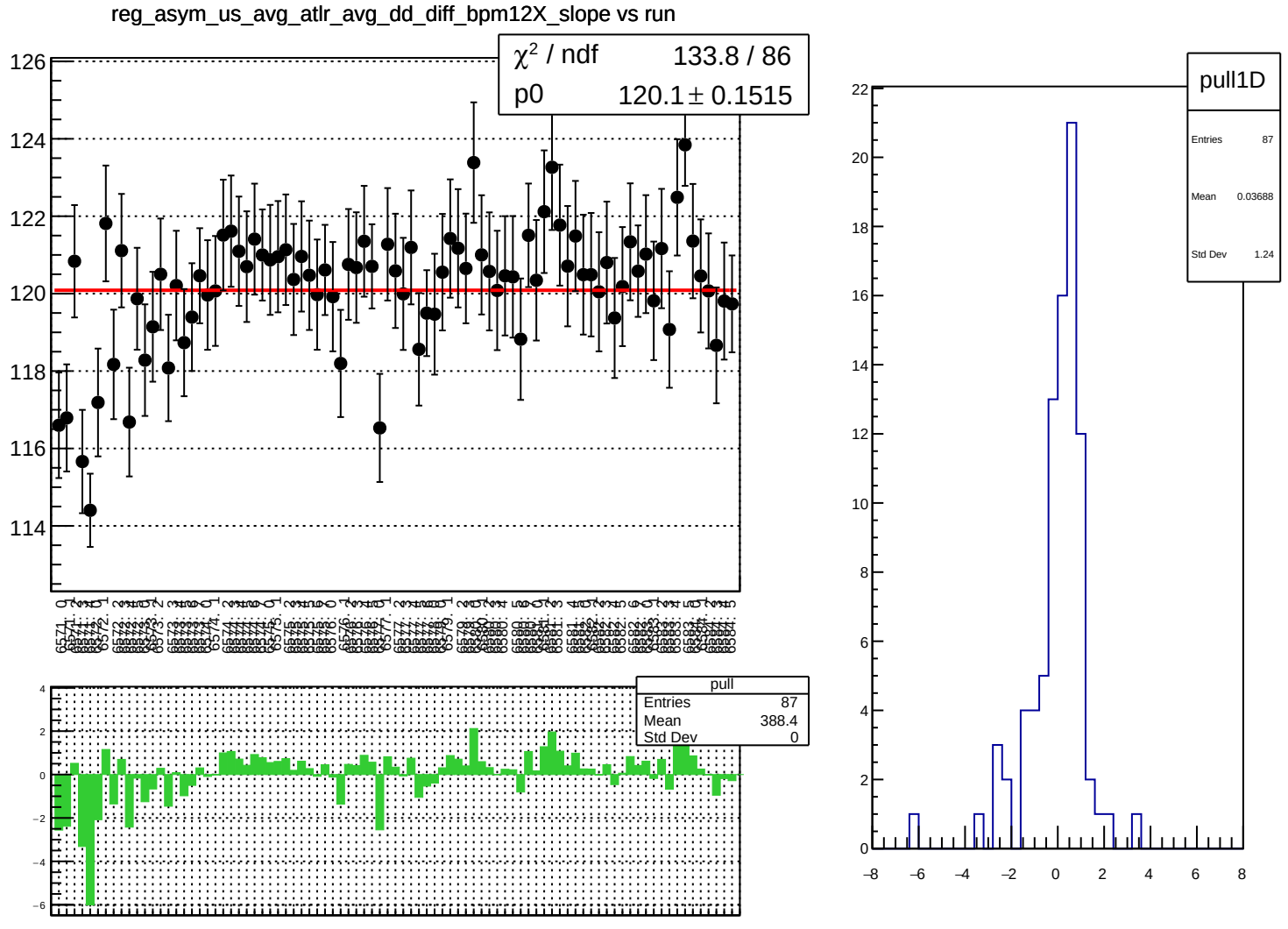

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 100.1 / 86
p0 167.1 ± 3.302
300
250
200
150
100
pull
Entries 87
Mean 5.549
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.06753
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

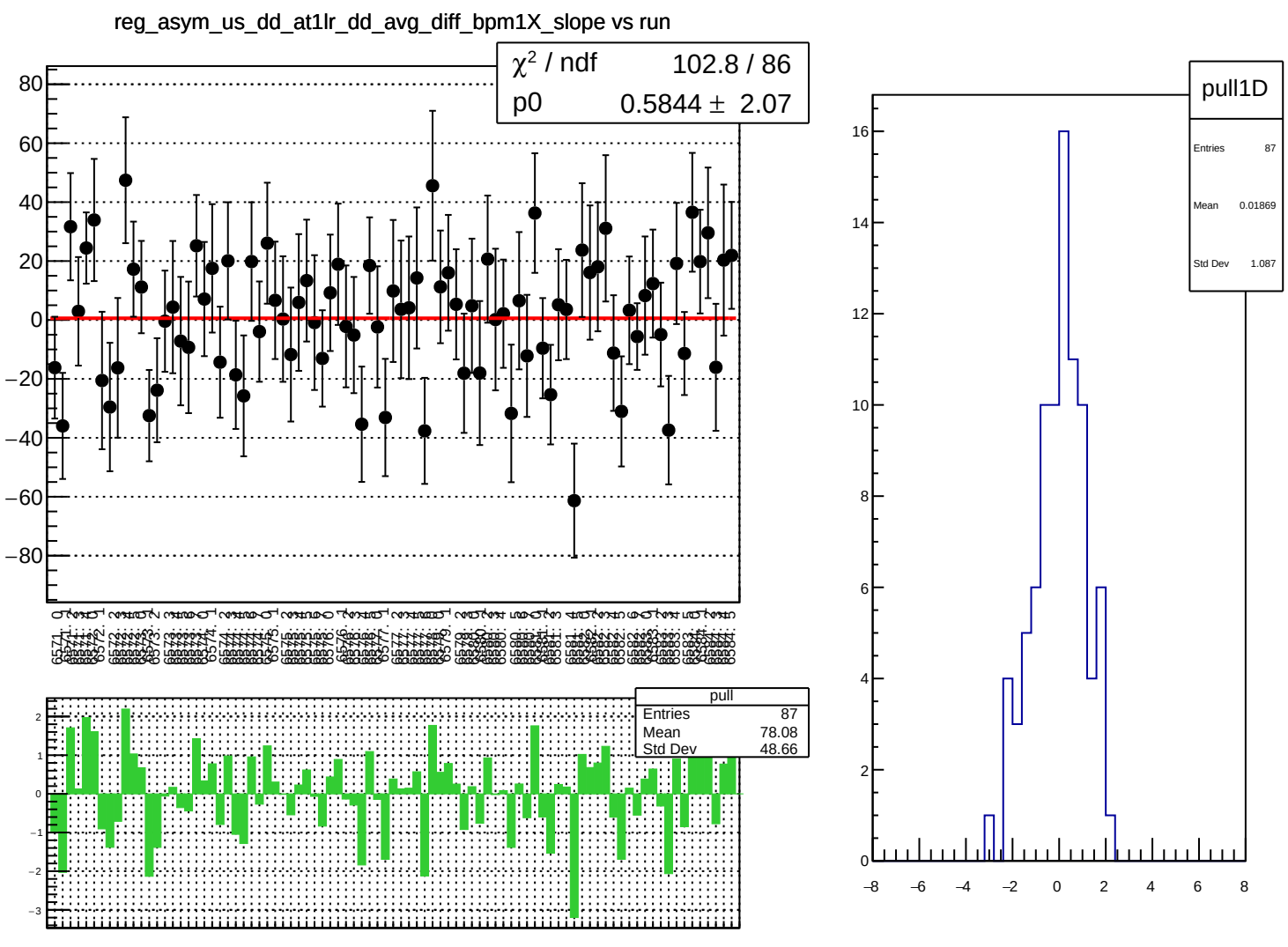

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.86 / 86
p0 −11.28 ± 2.744
pull
Entries 87
Mean 38.27
Std Dev 0

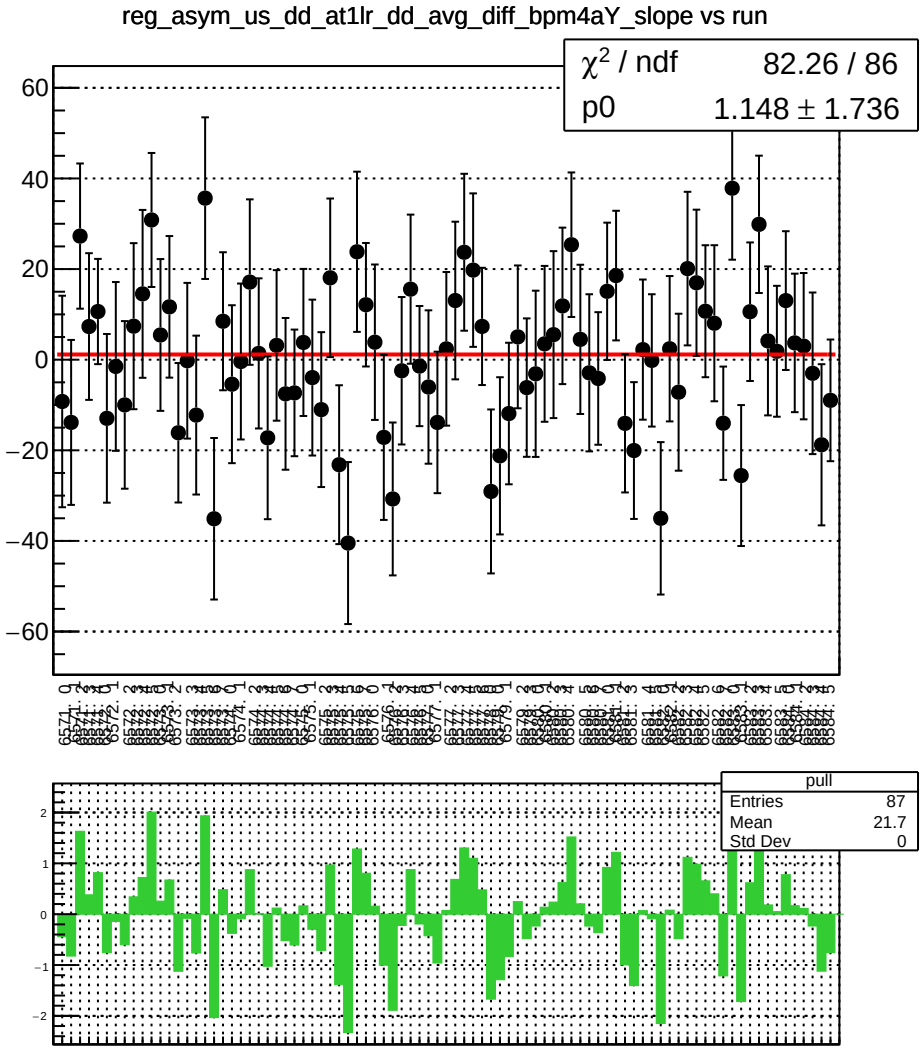

pull1D
Entries 87
Mean −0.02338
Std Dev 0.7177

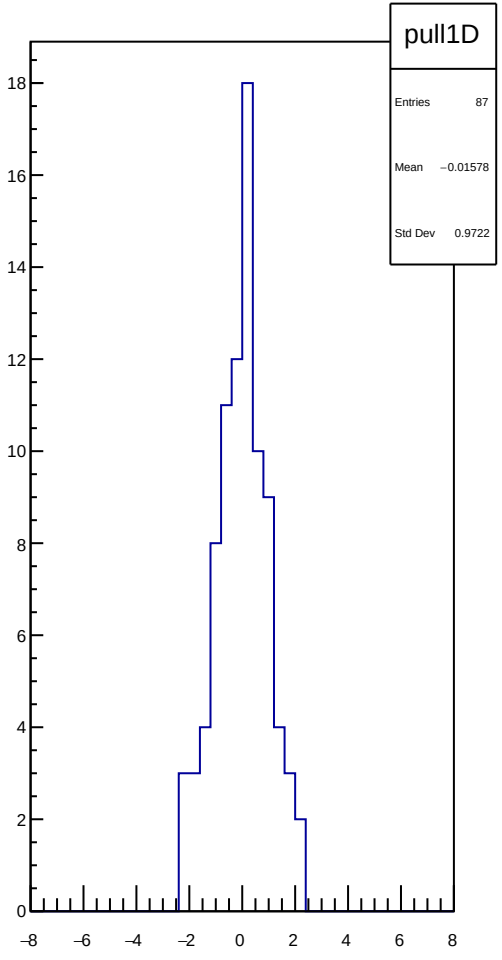

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.5 / 86
p0 −184.8 ± 3.396
−100
−150
−200
−250
−300
pull
Entries 87
Mean 10.97
Std Dev 6.264
pull1D
Entries 87
Mean −0.0736
Std Dev 1.083

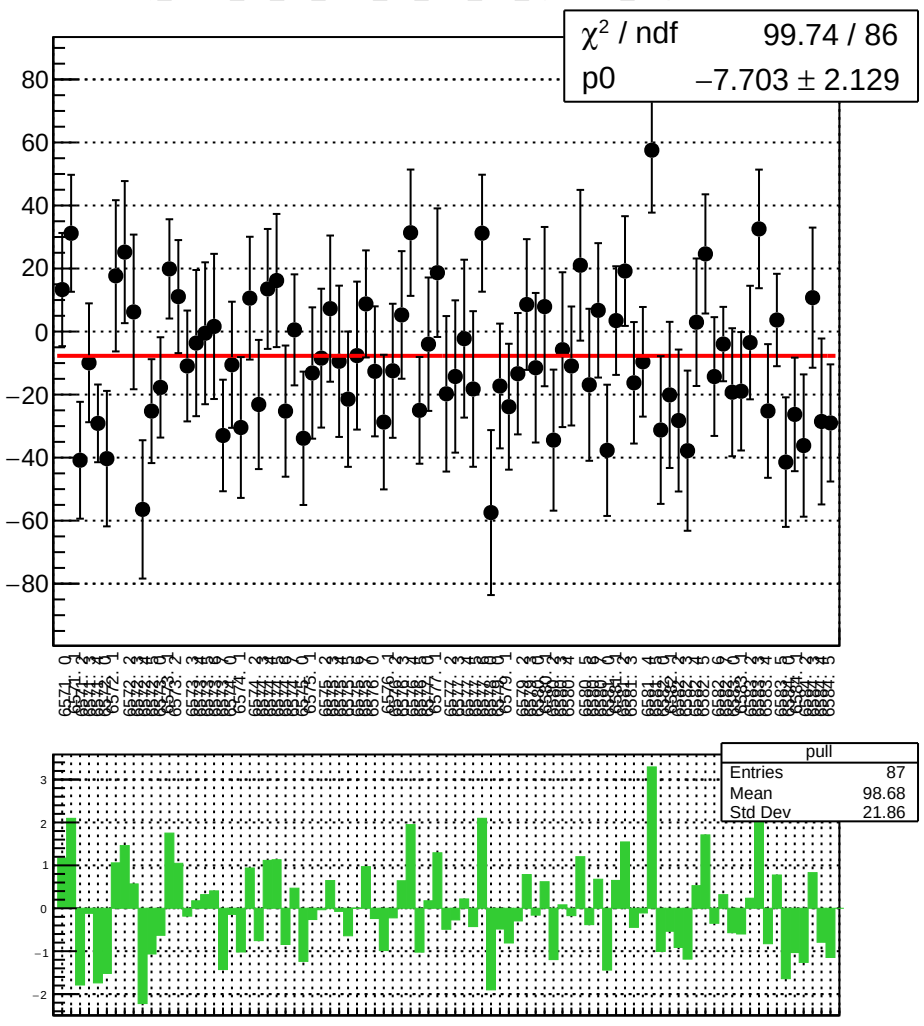

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.42 / 86
p0 −48.22 ± 3.299
pull
Entries 87
Mean 27.3
Std Dev 0
pull1D
Entries 87
Mean 0.02417
Std Dev 0.7222

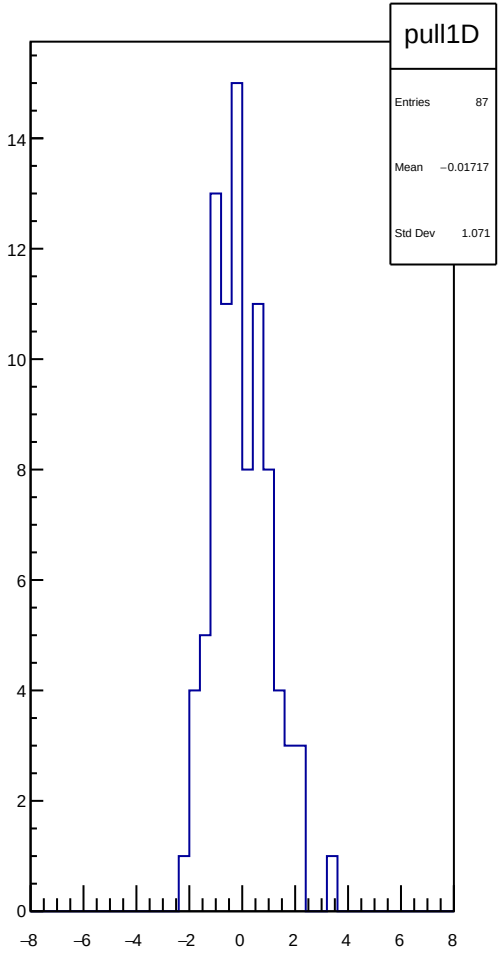

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 133.8 / 86
p0 120.1 ± 0.1515
pull
Entries 87
Mean 388.4
Std Dev 0
pull1D
Entries 87
Mean 0.03688
Std Dev 1.24

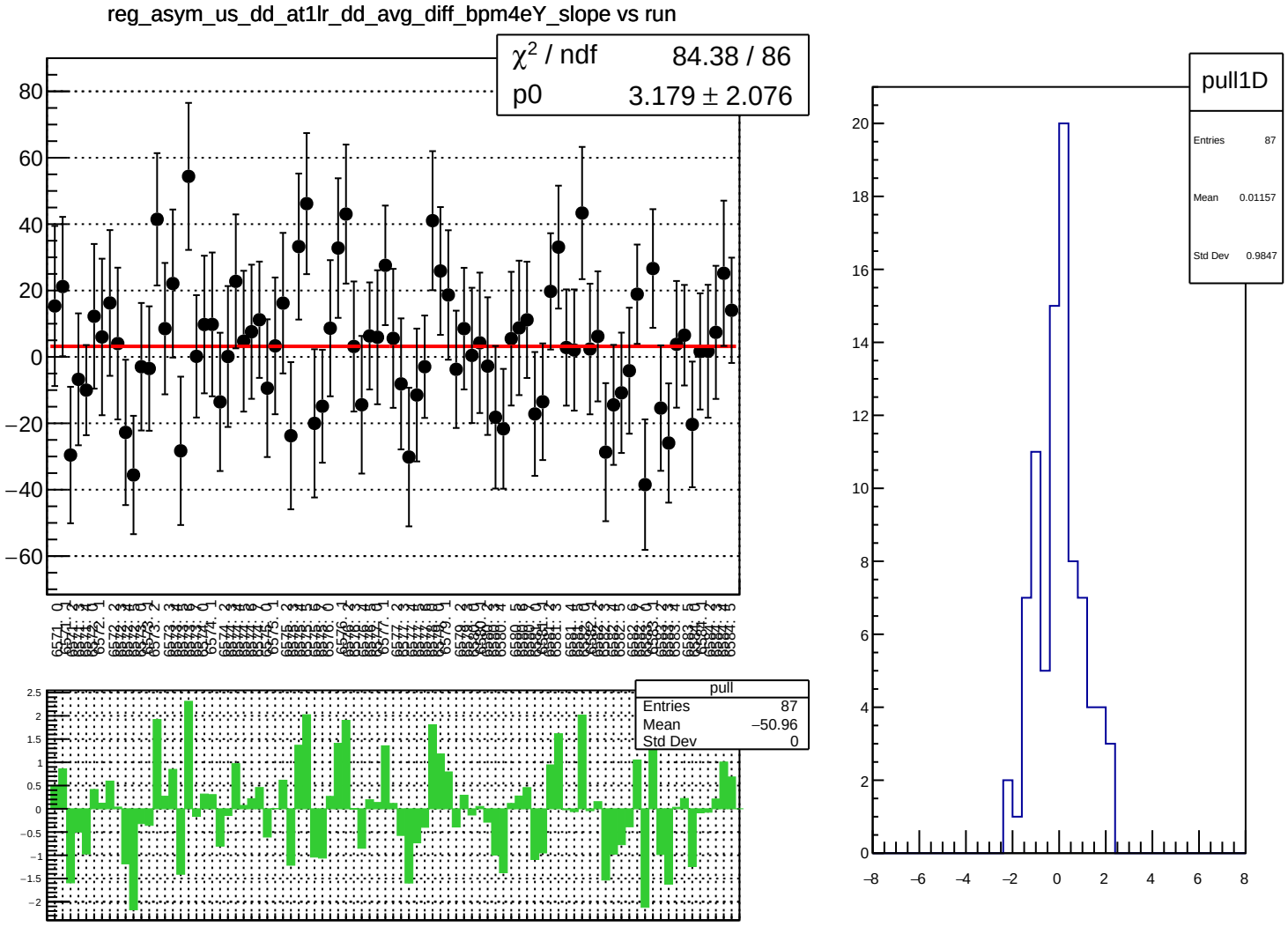

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 102.8 / 86
p0 0.5844 ± 2.07
pull
Entries 87
Mean 78.08
Std Dev 48.66
pull1D
Entries 87
Mean 0.01869
Std Dev 1.087

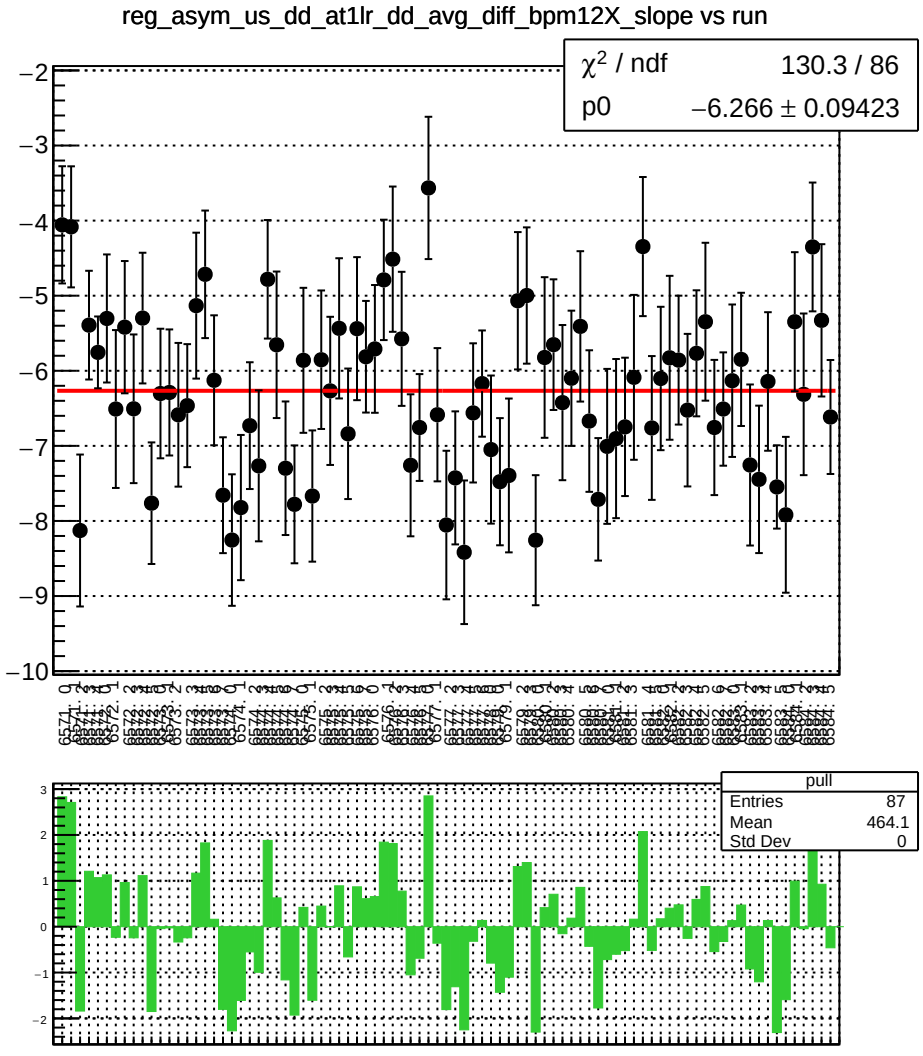

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.26 / 86
p0 1.148 ± 1.736
pull
Entries 87
Mean 21.7
Std Dev 0

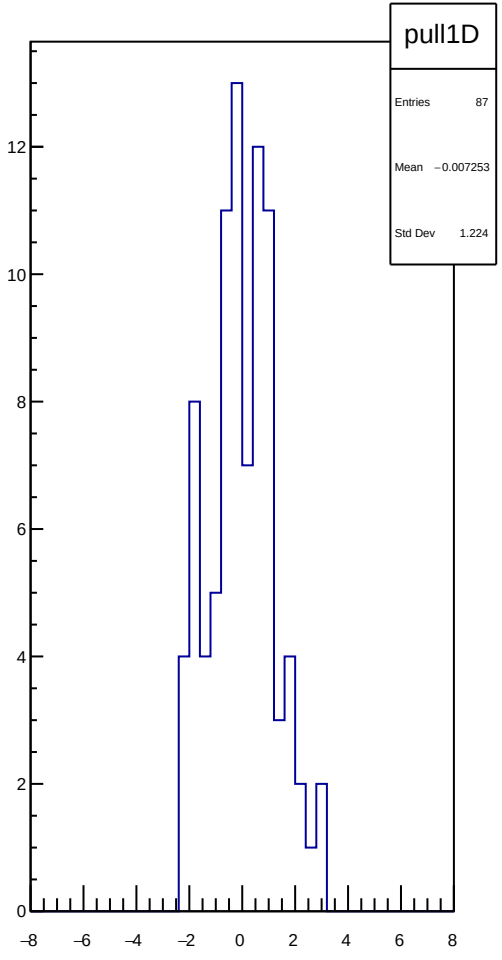

pull1D
Entries 87
Mean −0.01578
Std Dev 0.9722

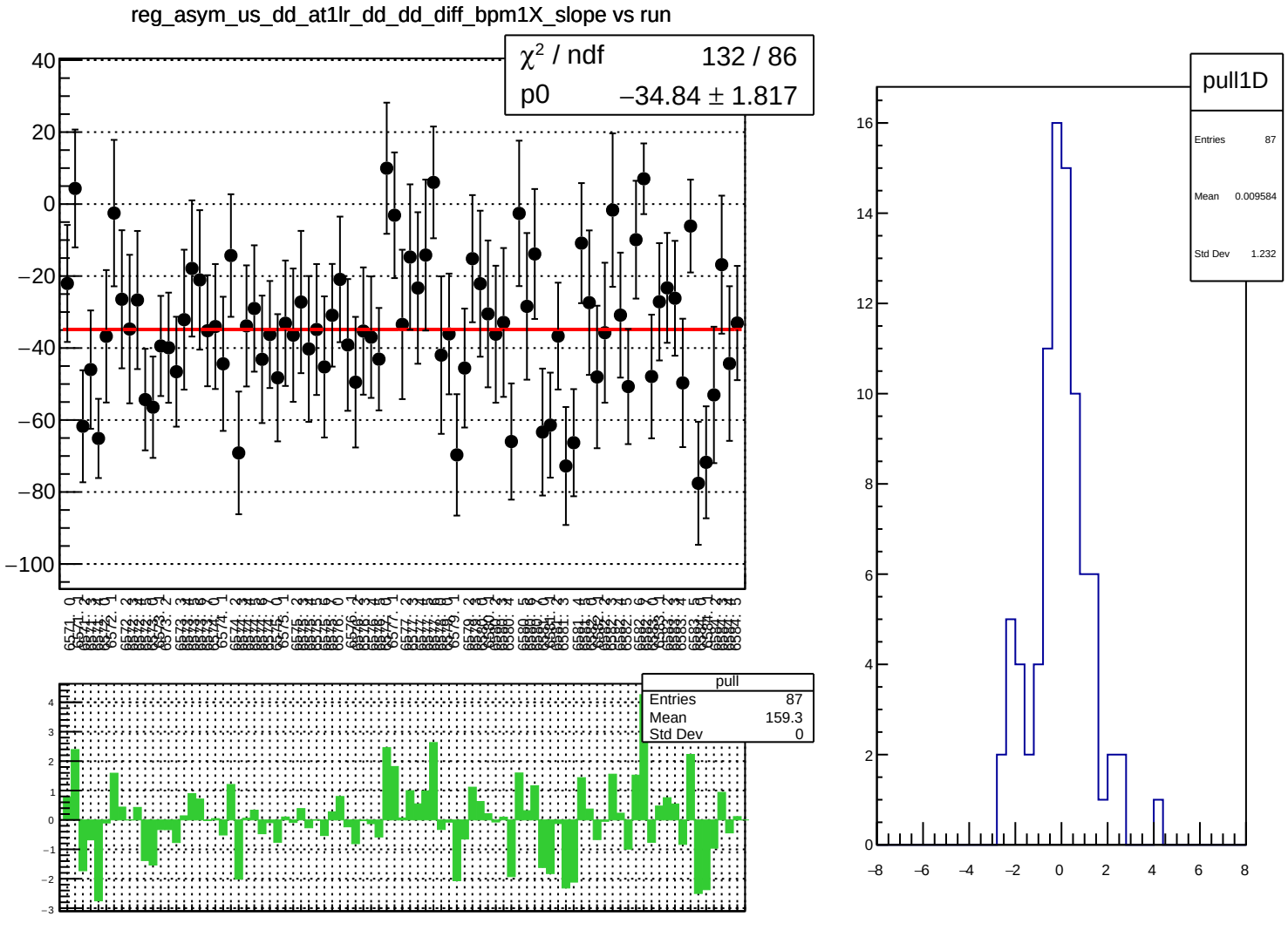

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 99.74 / 86
p0 −7.703 ± 2.129
pull
Entries 87
Mean 98.68
Std Dev 21.86

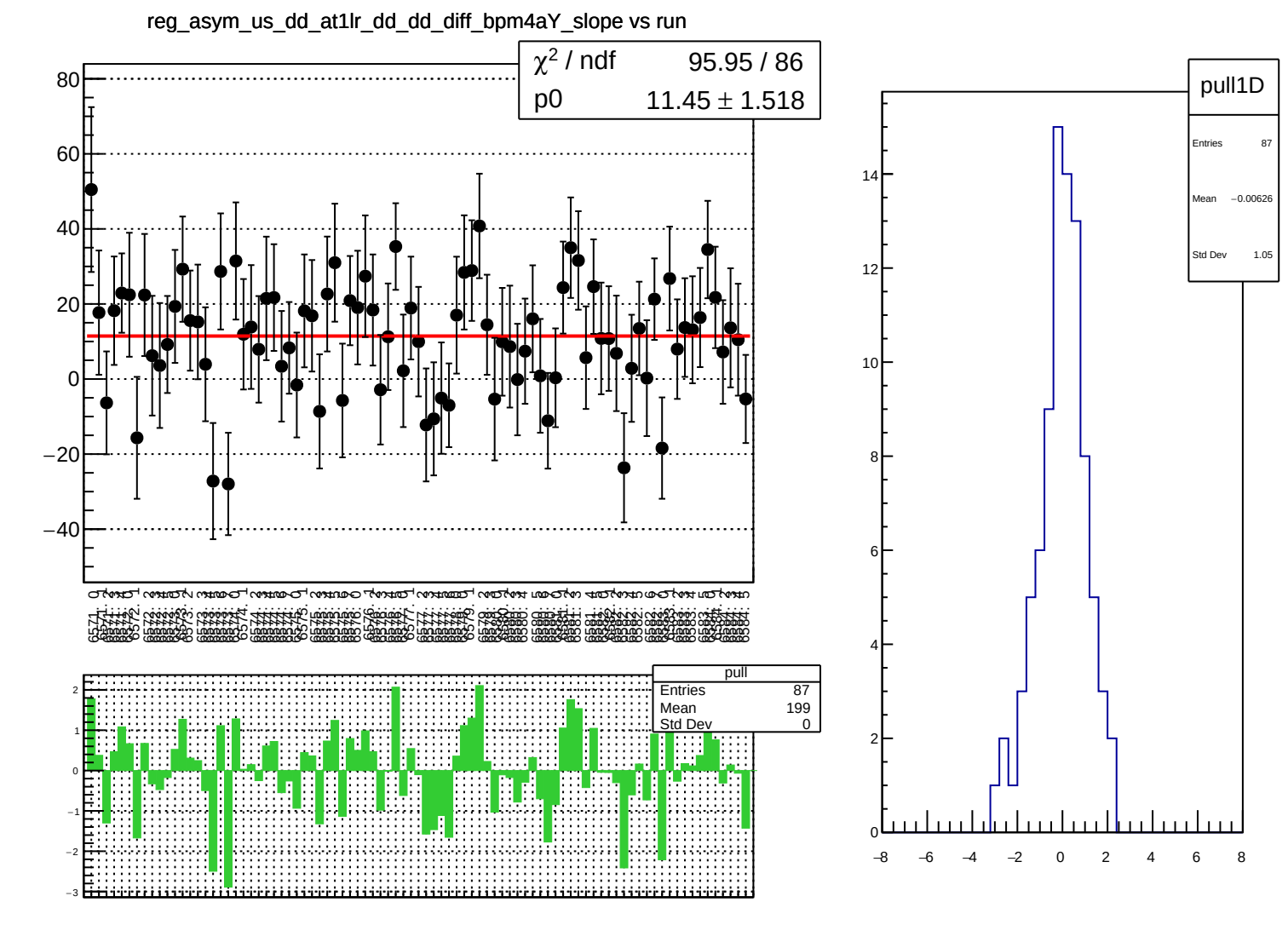

pull1D
Entries 87
Mean −0.01717
Std Dev 1.071

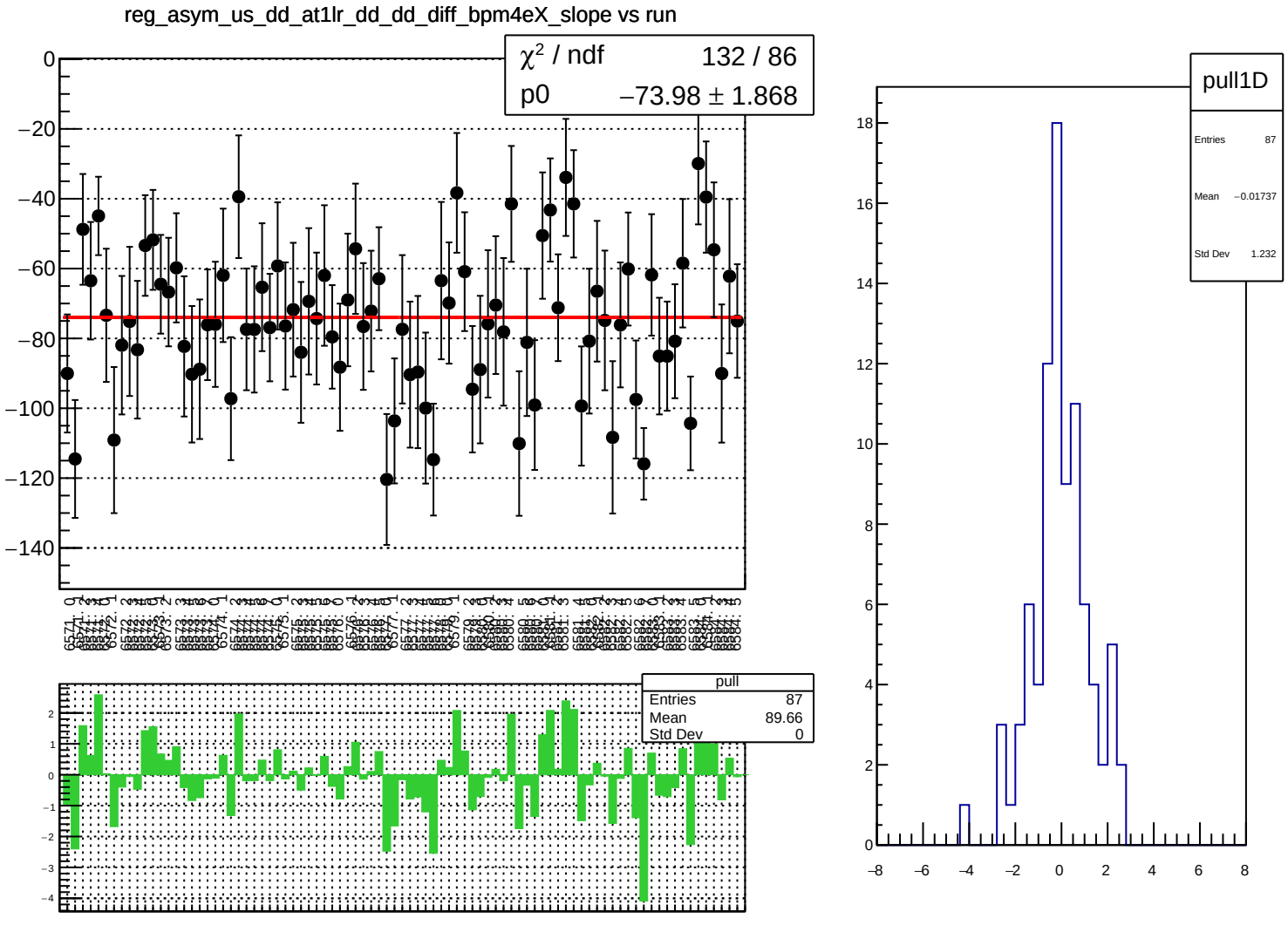

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 84.38 / 86
p0 3.179 ± 2.076
pull
Entries 87
Mean −50.96
Std Dev 0
pull1D
Entries 87
Mean 0.01157
Std Dev 0.9847

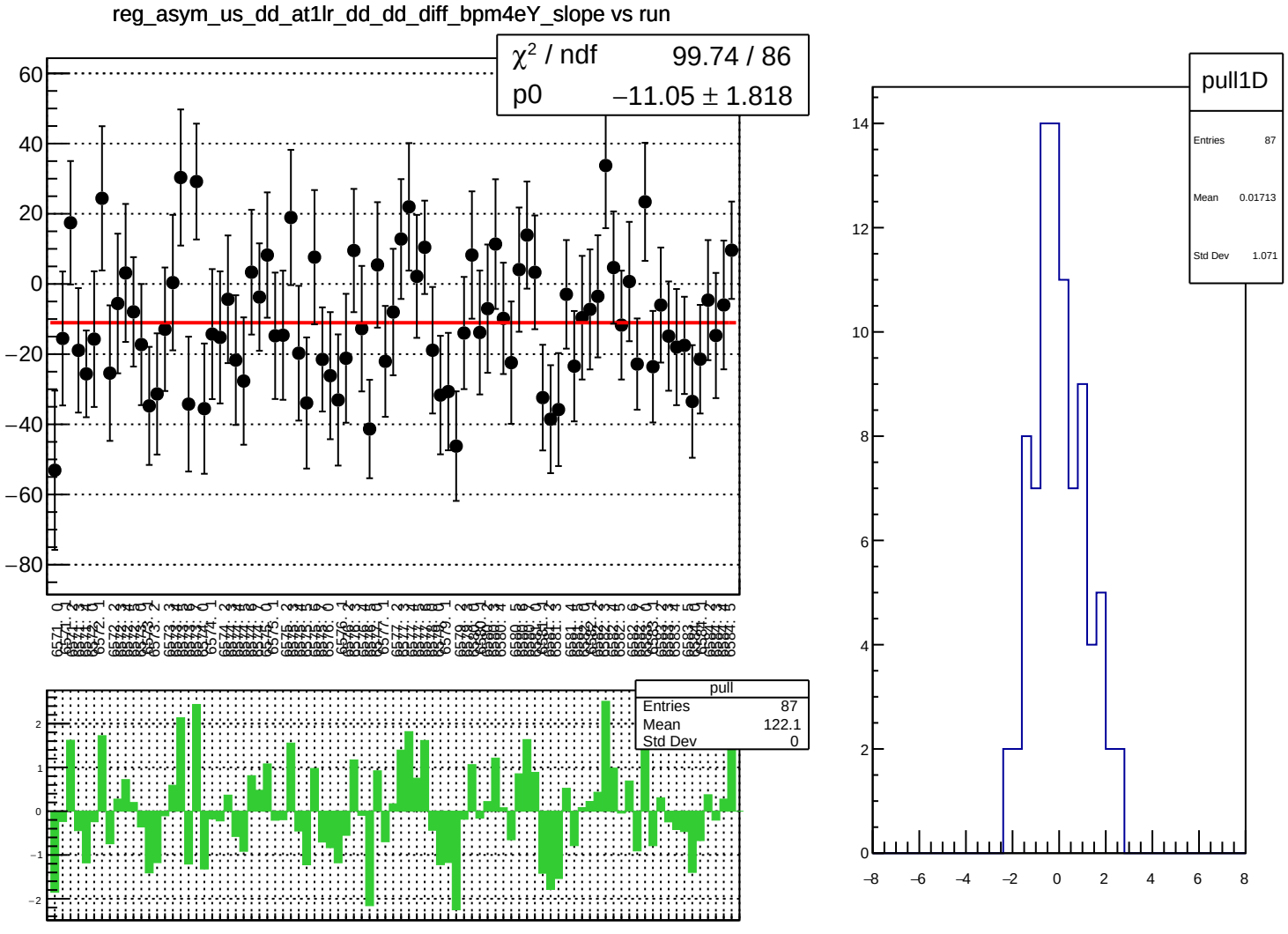

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 130.3 / 86
p0 −6.266 ± 0.09423
pull
Entries 87
Mean 464.1
Std Dev 0

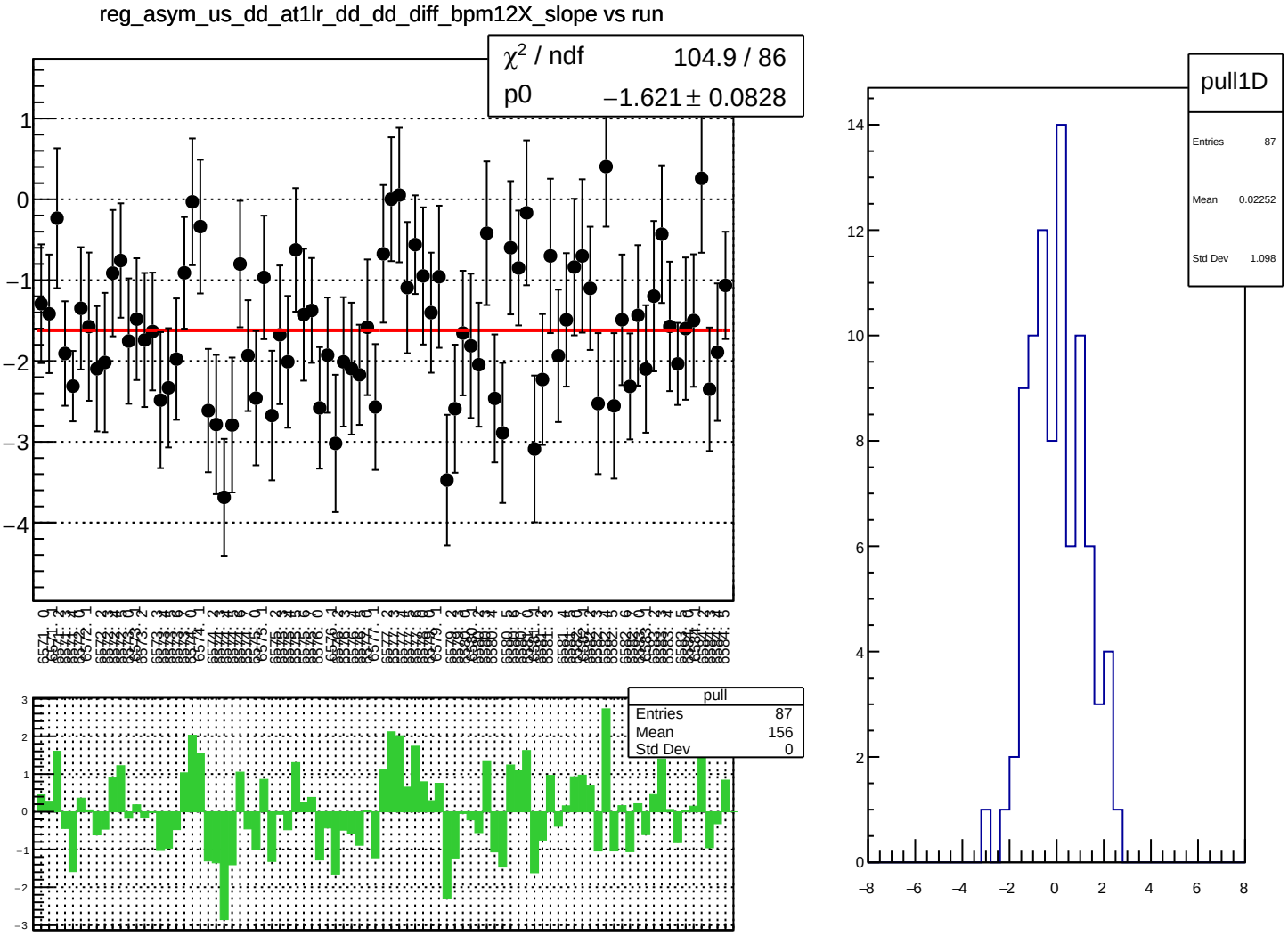

pull1D
Entries 87
Mean −0.007253
Std Dev 1.224

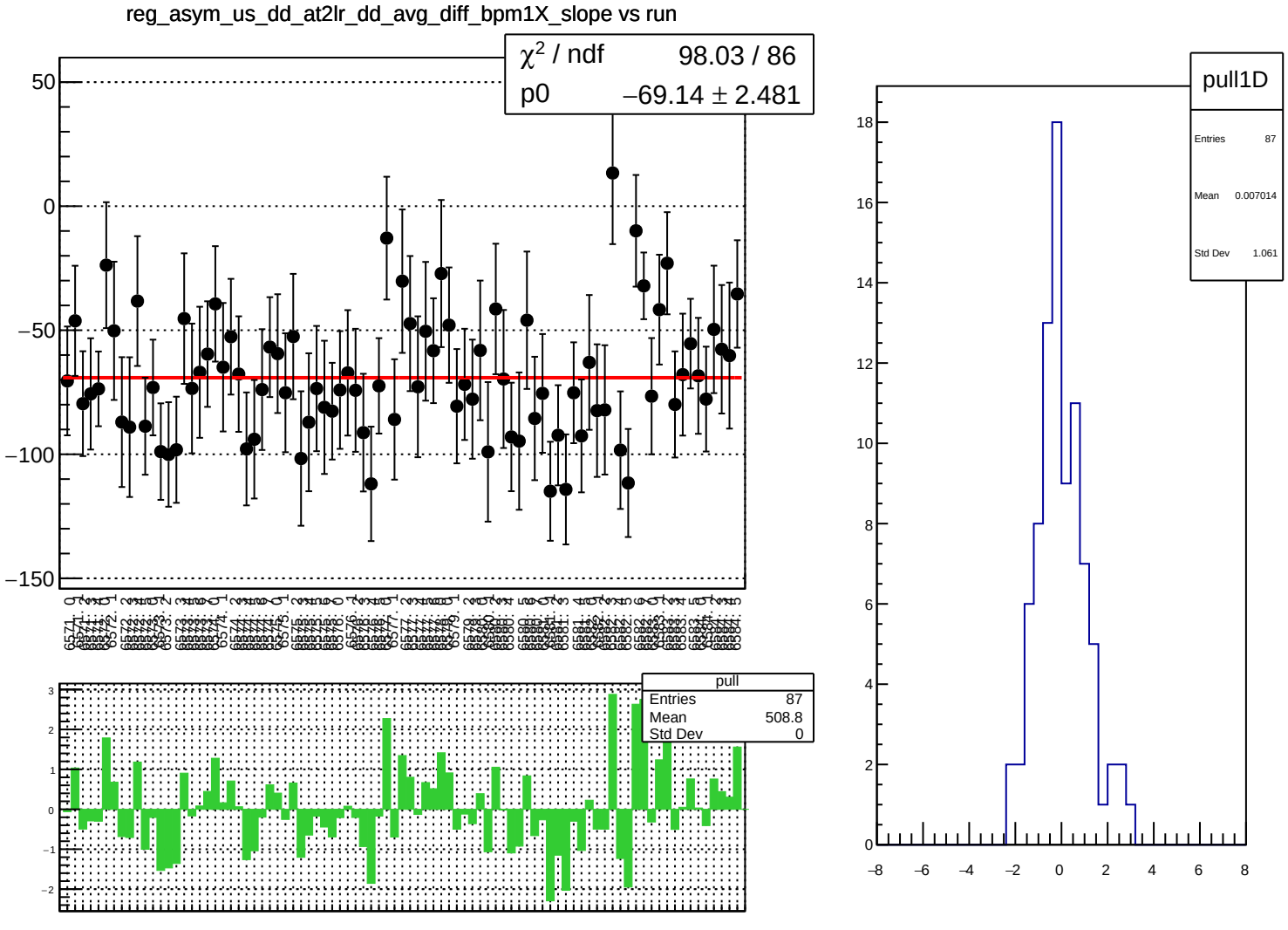

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 132 / 86
p0 −34.84 ± 1.817
pull
Entries 87
Mean 159.3
Std Dev 0
pull1D
Entries 87
Mean 0.009584
Std Dev 1.232

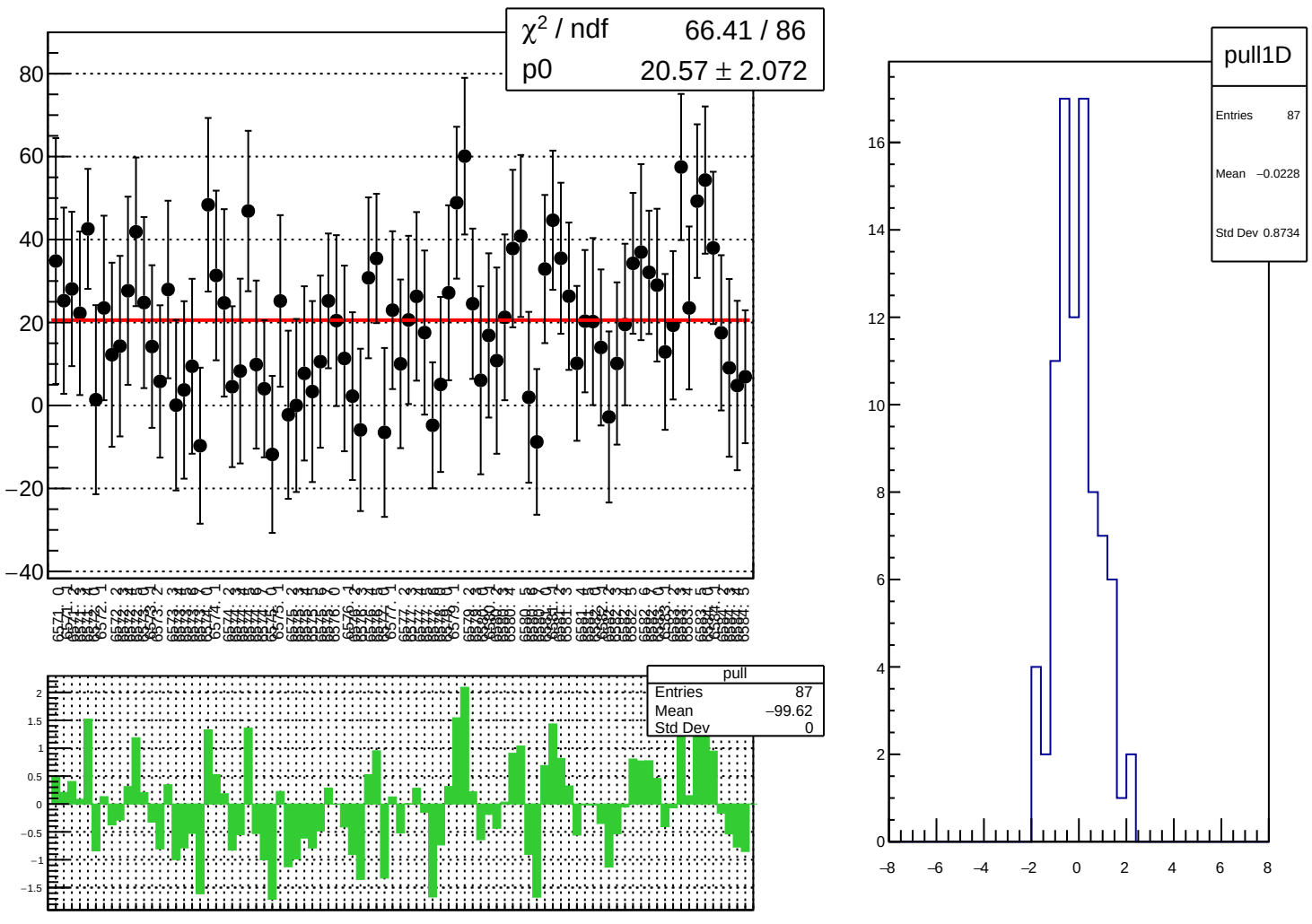

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 95.95 / 86
p0 11.45 ± 1.518
pull
Entries 87
Mean 199
Std Dev 0
pull1D
Entries 87
Mean −0.00626
Std Dev 1.05

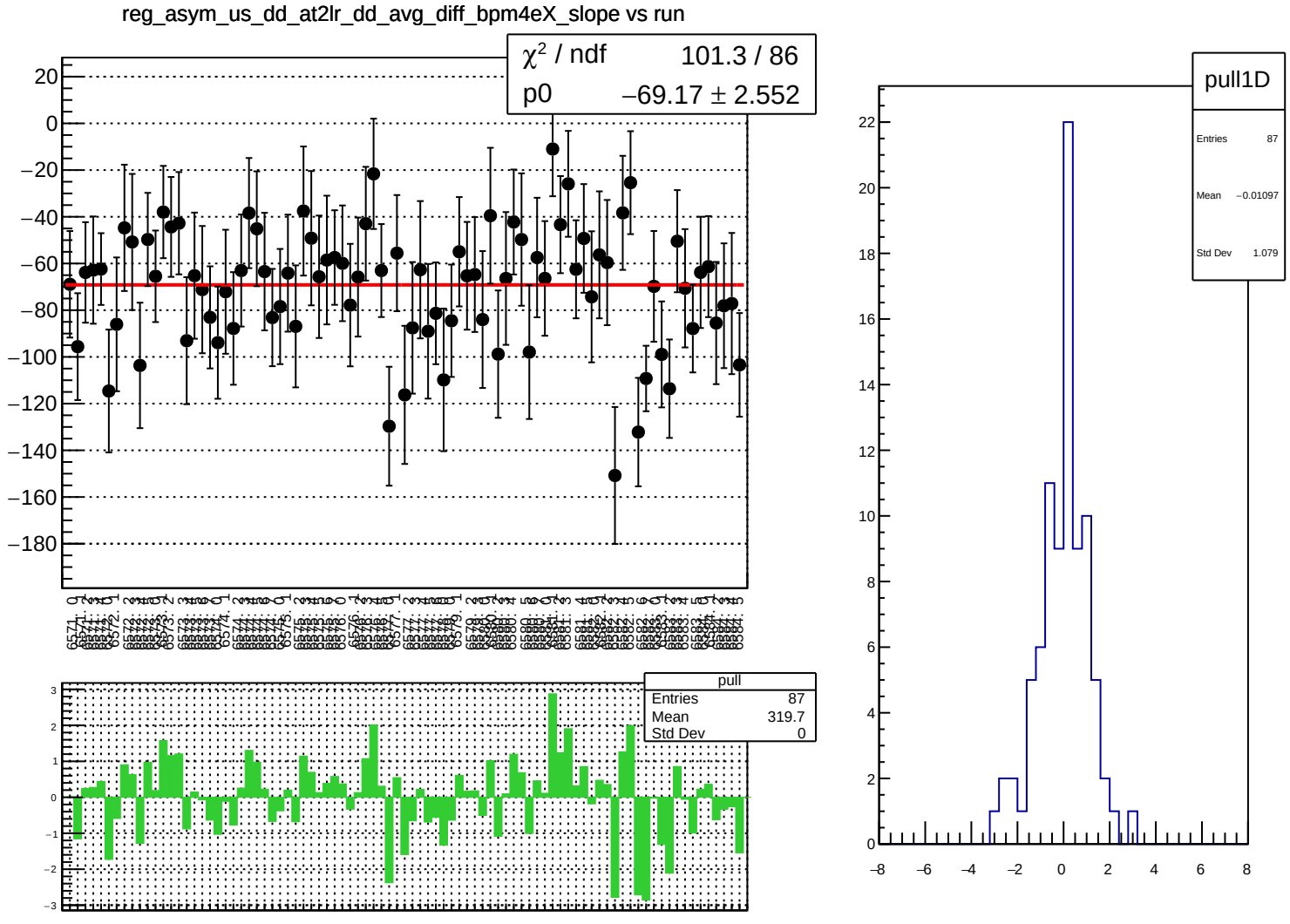

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 132 / 86
p0 −73.98 ± 1.868
pull
Entries 87
Mean 89.66
Std Dev 0
pull1D
Entries 87
Mean −0.01737
Std Dev 1.232

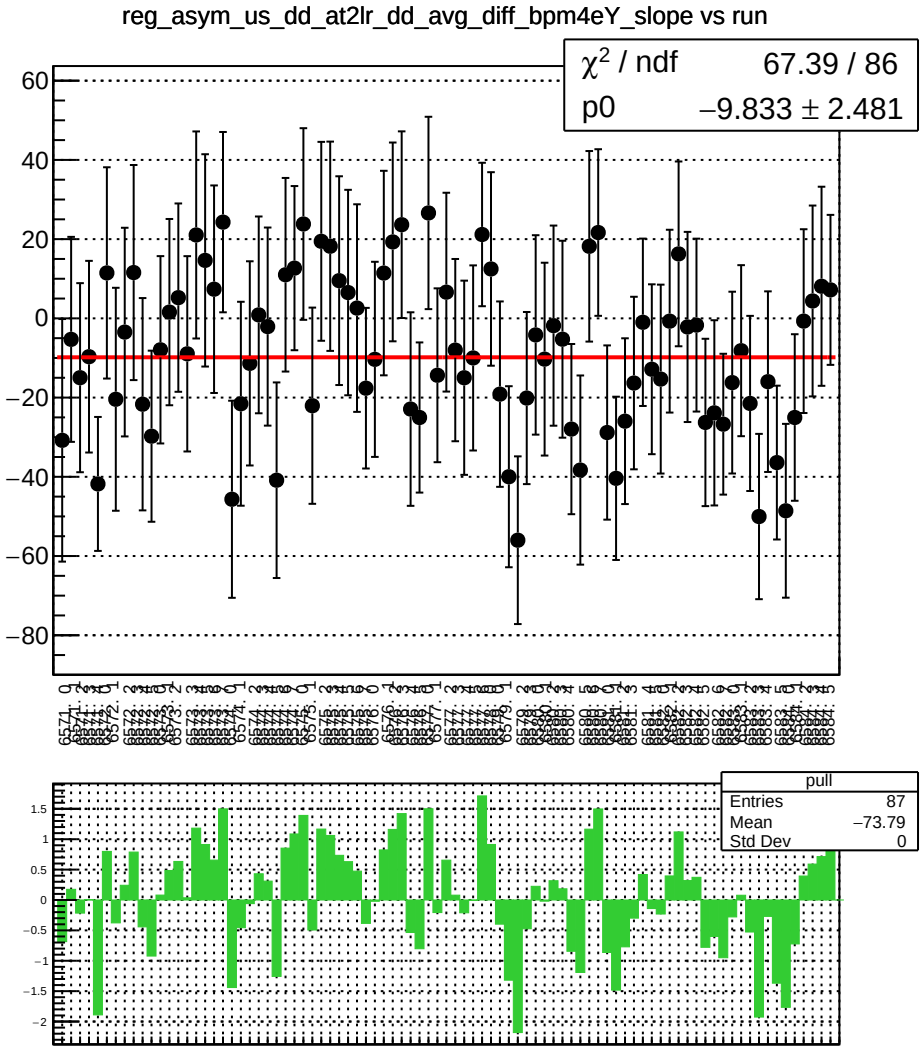

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.74 / 86
p0 −11.05 ± 1.818
pull
Entries 87
Mean 122.1
Std Dev 0
pull1D
Entries 87
Mean 0.01713
Std Dev 1.071

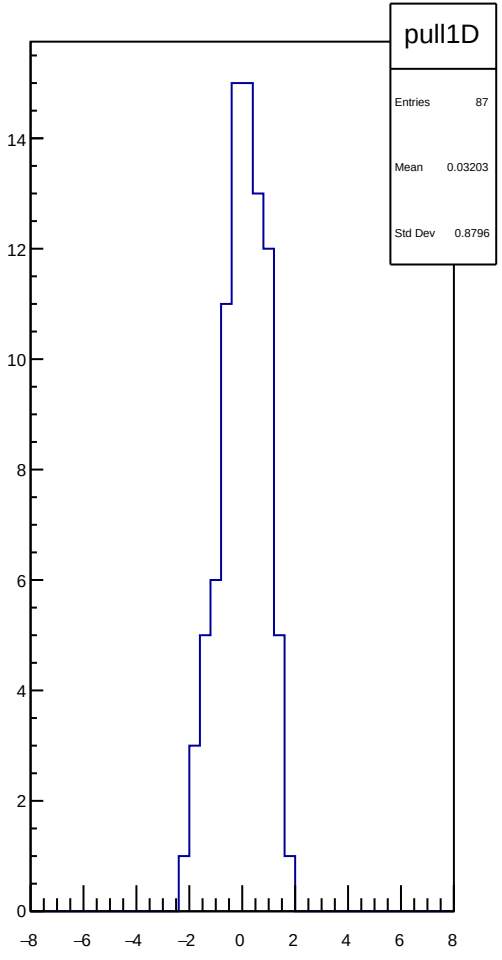

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 104.9 / 86
p0 −1.621 ± 0.0828
pull
Entries 87
Mean 156
Std Dev 0
pull1D
Entries 87
Mean 0.02252
Std Dev 1.098

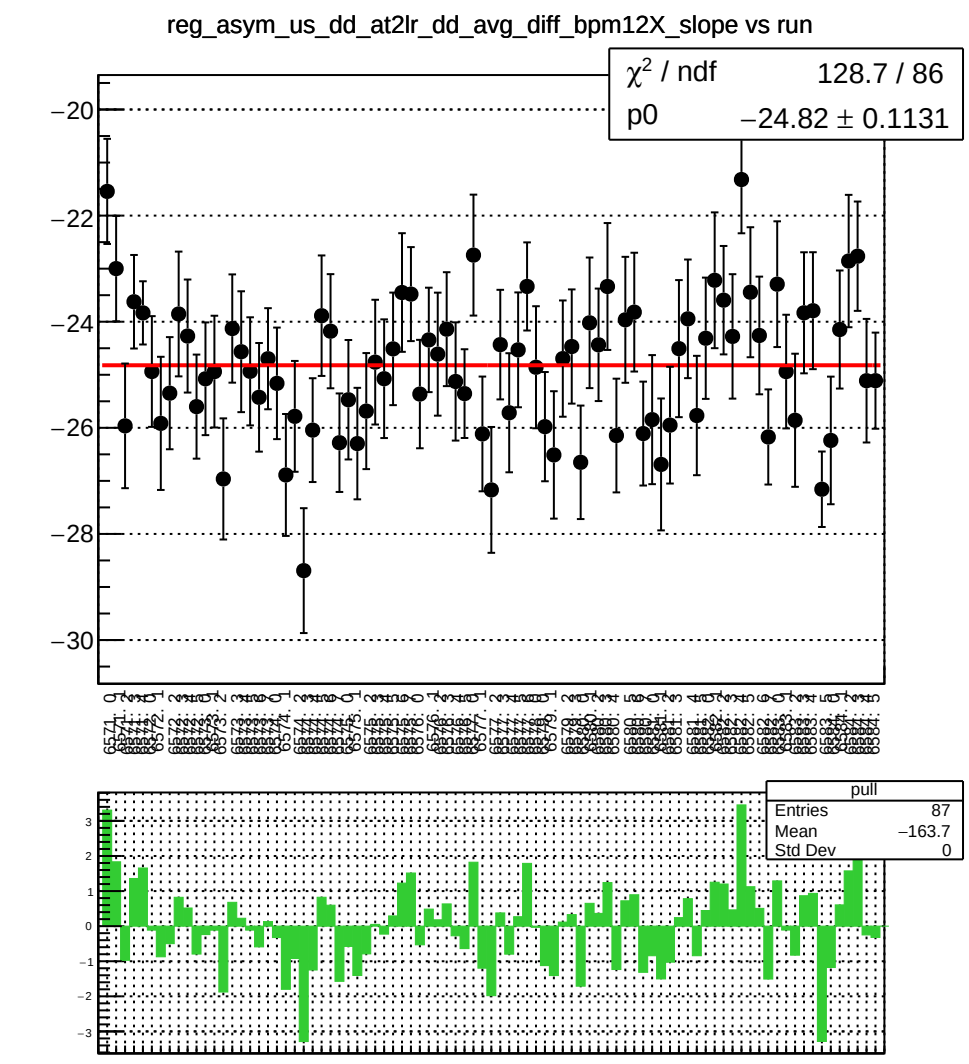

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 98.03 / 86
p0 −69.14 ± 2.481
pull
Entries 87
Mean 508.8
Std Dev 0
pull1D
Entries 87
Mean 0.007014
Std Dev 1.061

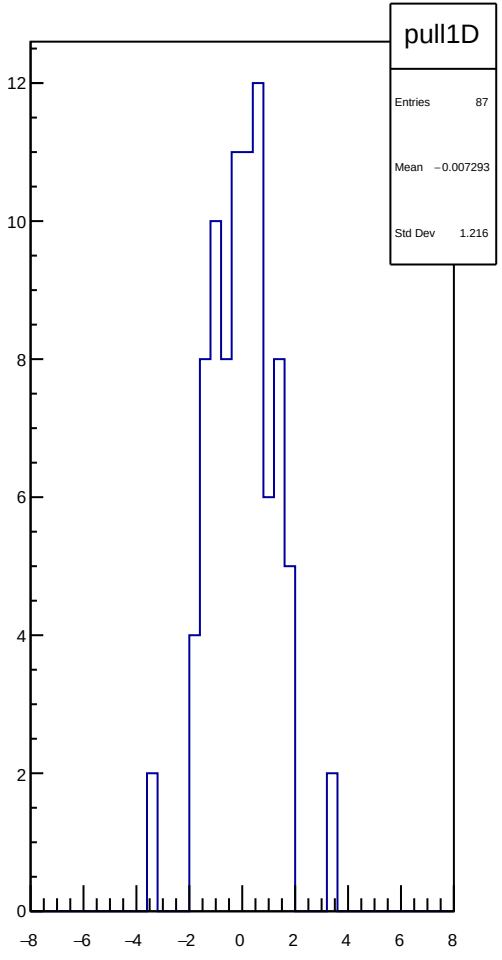

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.41 / 86
p0 20.57 ± 2.072
pull
Entries 87
Mean −99.62
Std Dev 0
pull1D
Entries 87
Mean −0.0228
Std Dev 0.8734

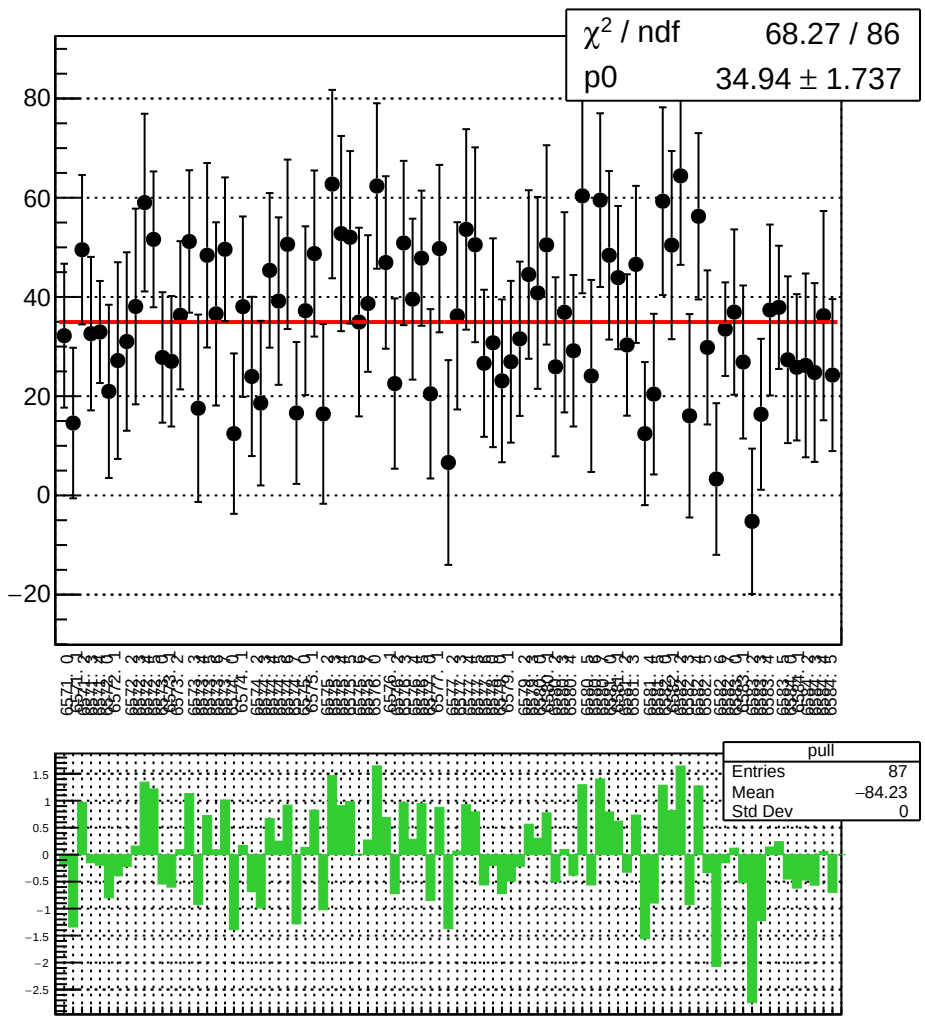

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 101.3 / 86
p0 −69.17 ± 2.552
pull
Entries 87
Mean 319.7
Std Dev 0
pull1D
Entries 87
Mean −0.01097
Std Dev 1.079

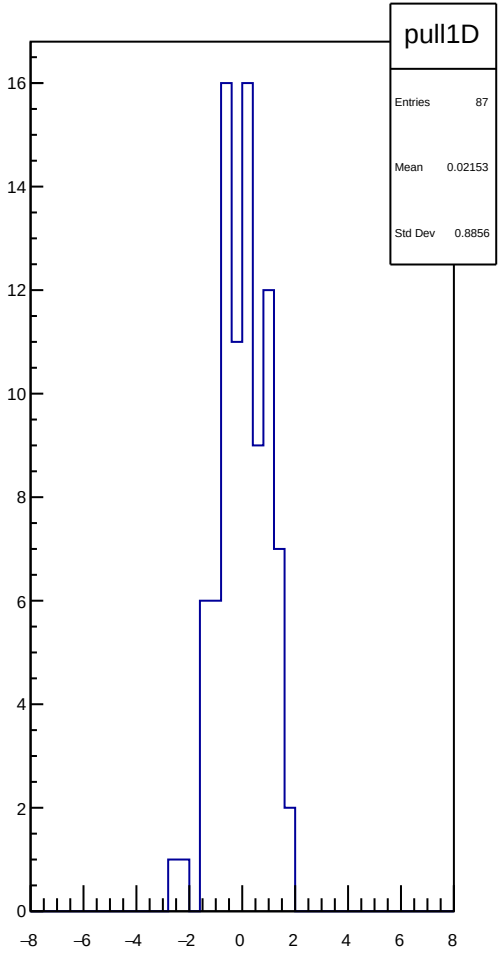

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 67.39 / 86
p0 −9.833 ± 2.481
pull
Entries 87
Mean −73.79
Std Dev 0

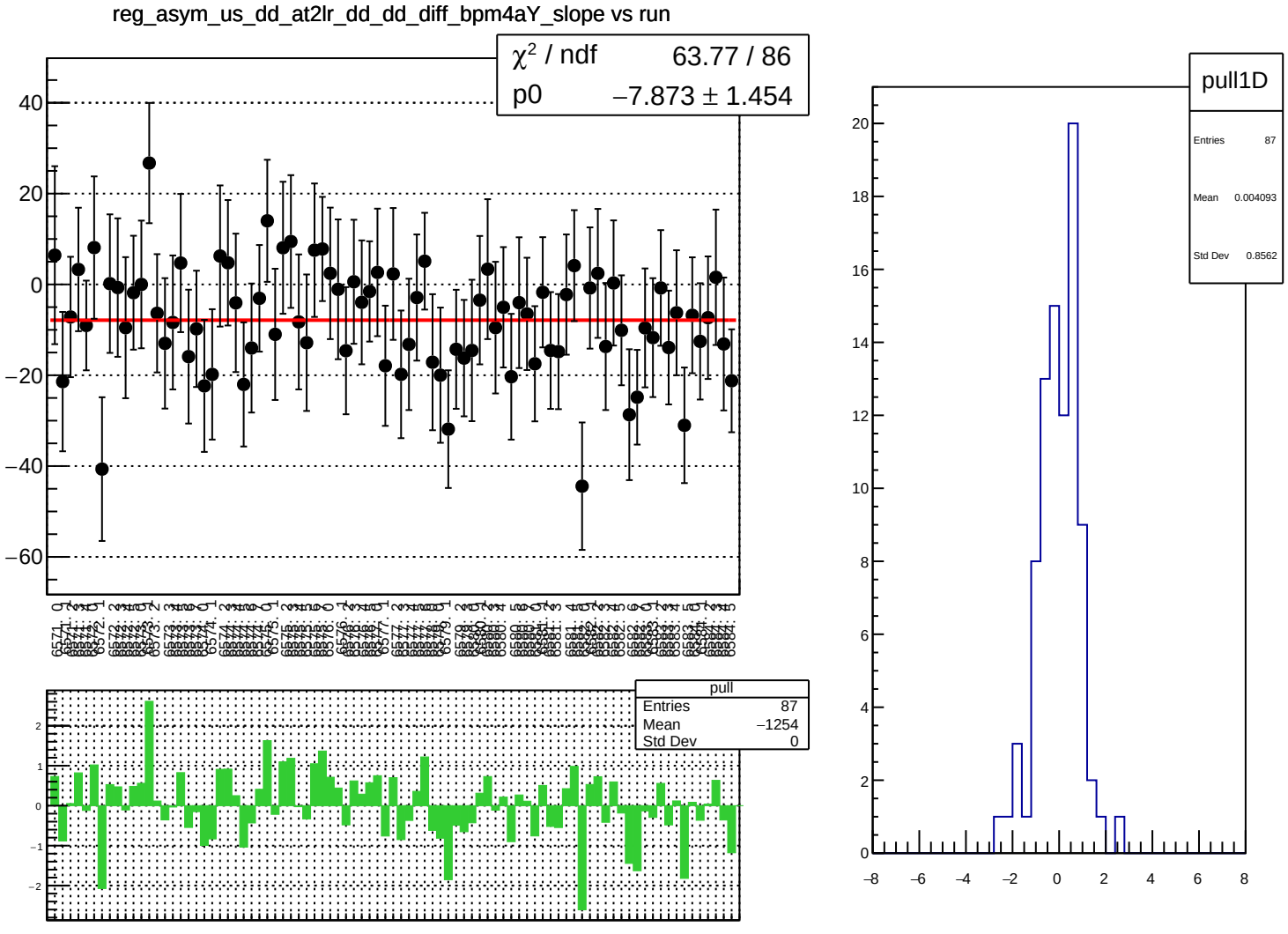

pull1D
Entries 87
Mean 0.03203
Std Dev 0.8796

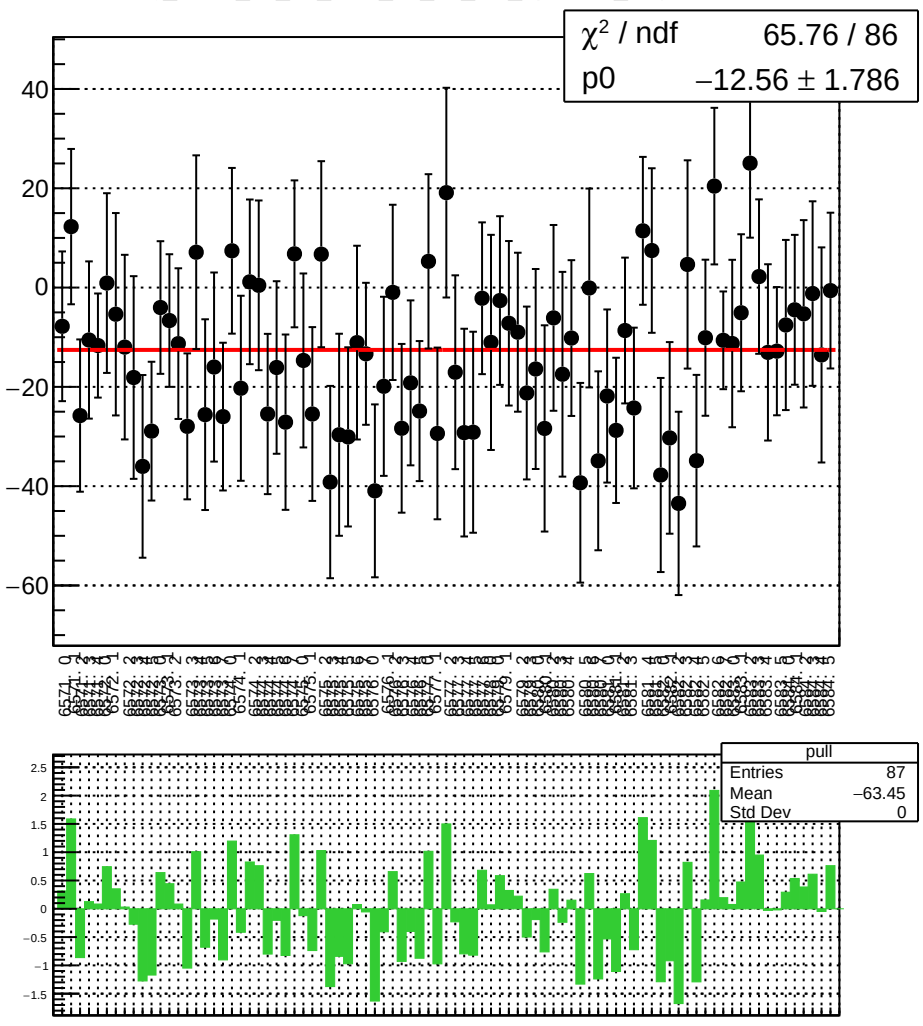

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 128.7 / 86
p0 −24.82 ± 0.1131
pull
Entries 87
Mean −163.7
Std Dev 0

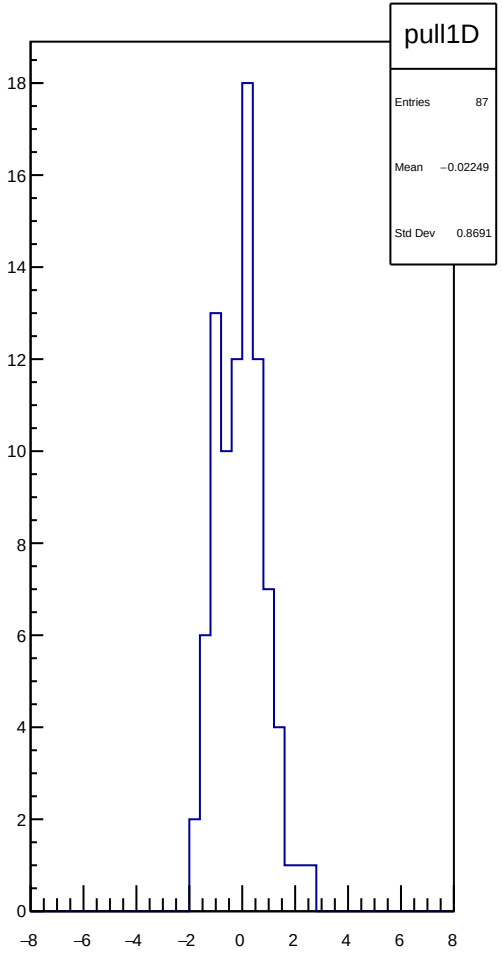

pull1D
Entries 87
Mean −0.007293
Std Dev 1.216

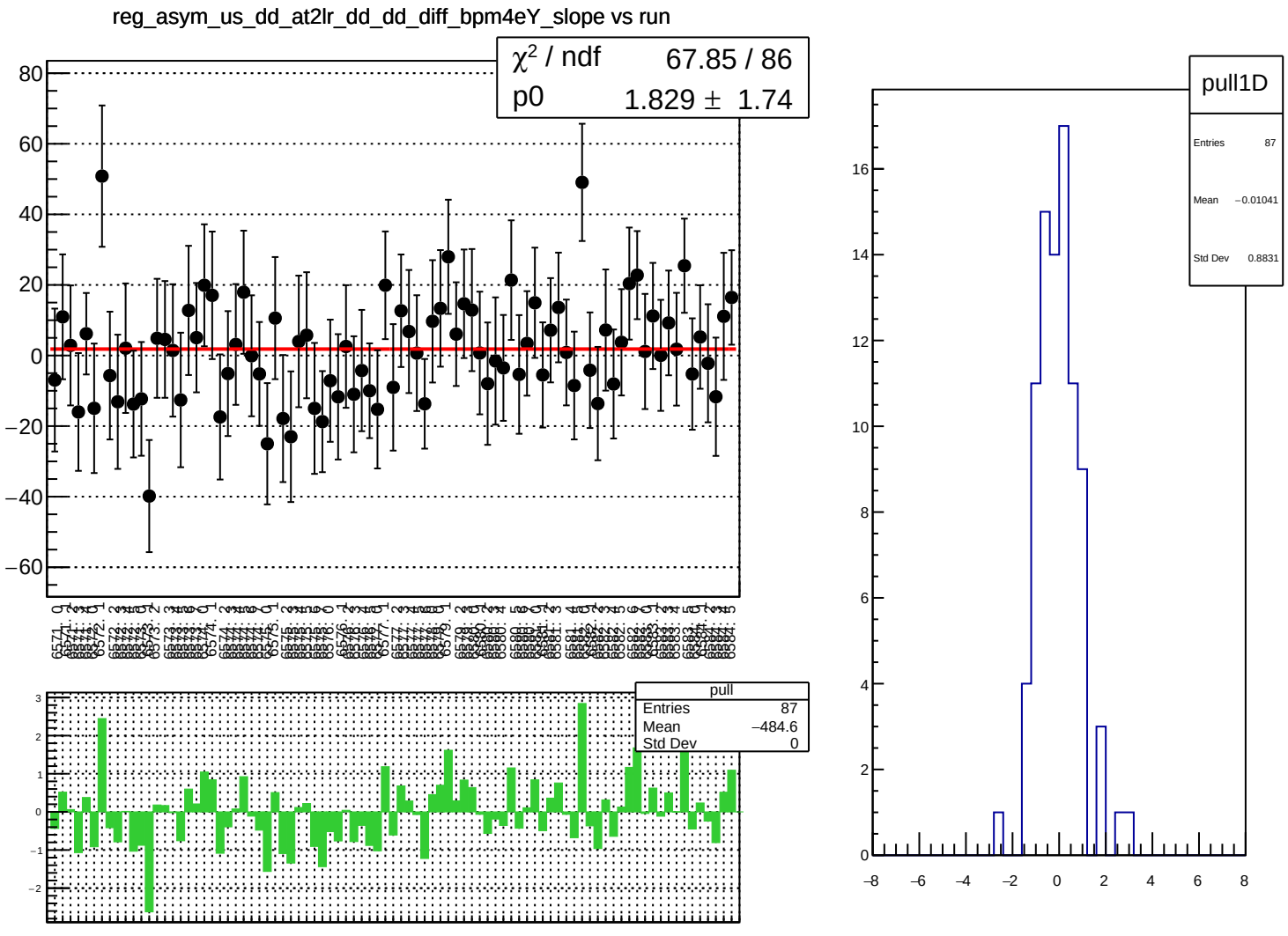

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 68.27 / 86
p0 34.94 ± 1.737
pull
Entries 87
Mean −84.23
Std Dev 0

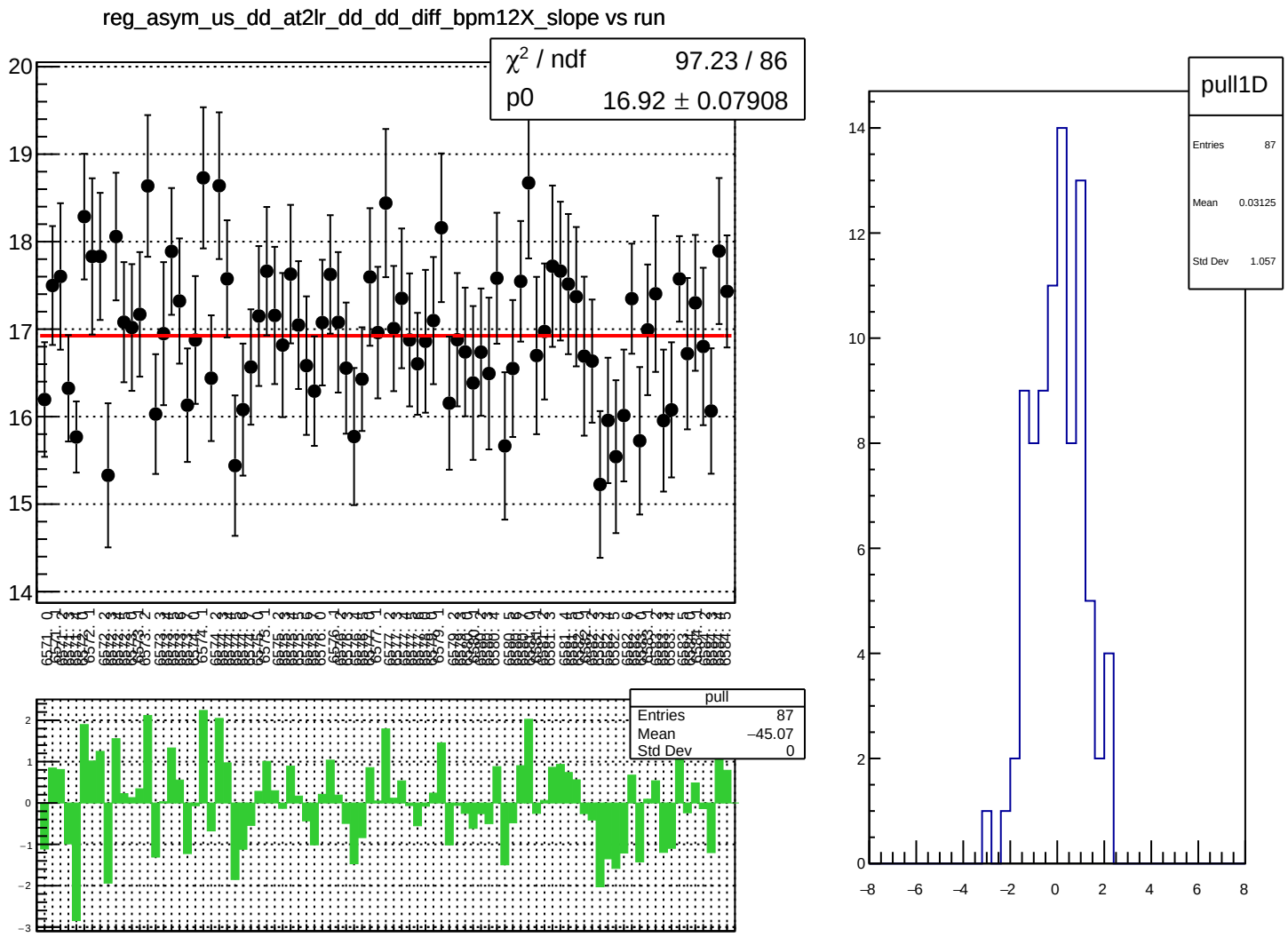

pull1D
Entries 87
Mean 0.02153
Std Dev 0.8856

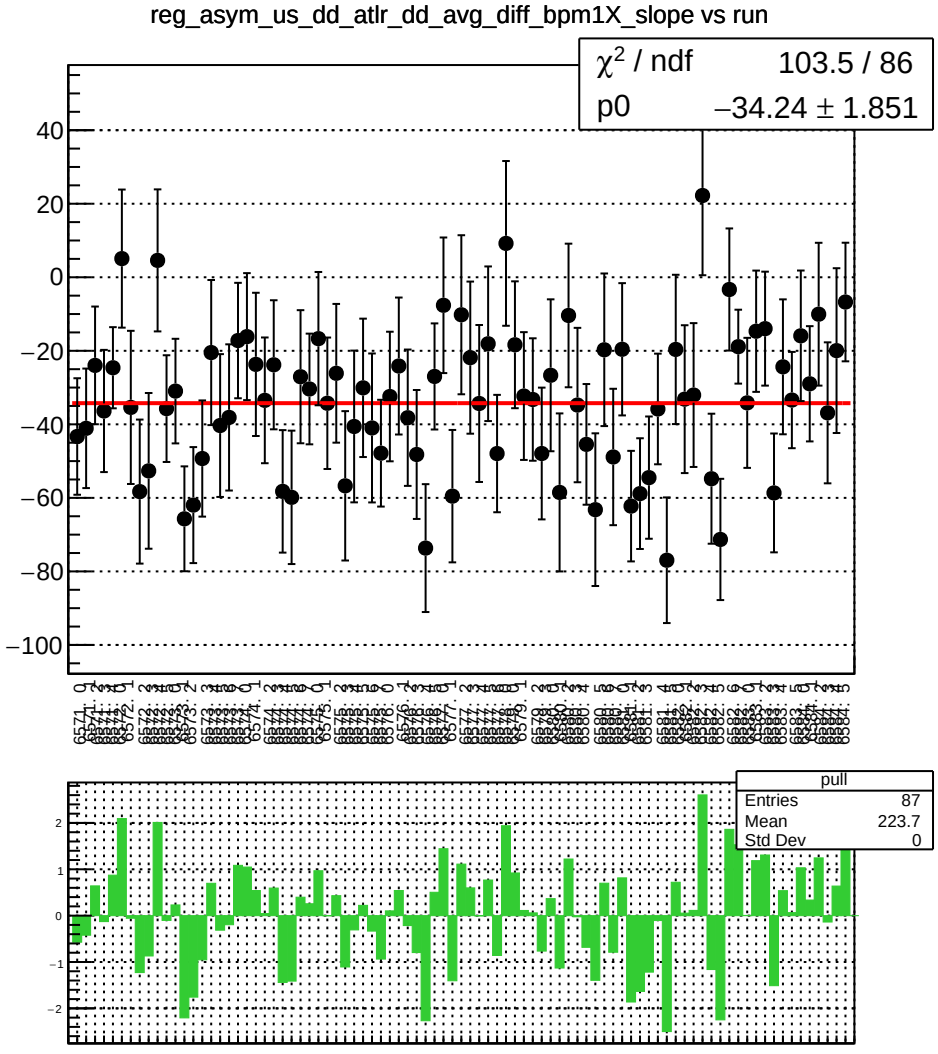

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.77 / 86
p0 −7.873 ± 1.454
pull
Entries 87
Mean −1254
Std Dev 0
pull1D
Entries 87
Mean 0.004093
Std Dev 0.8562

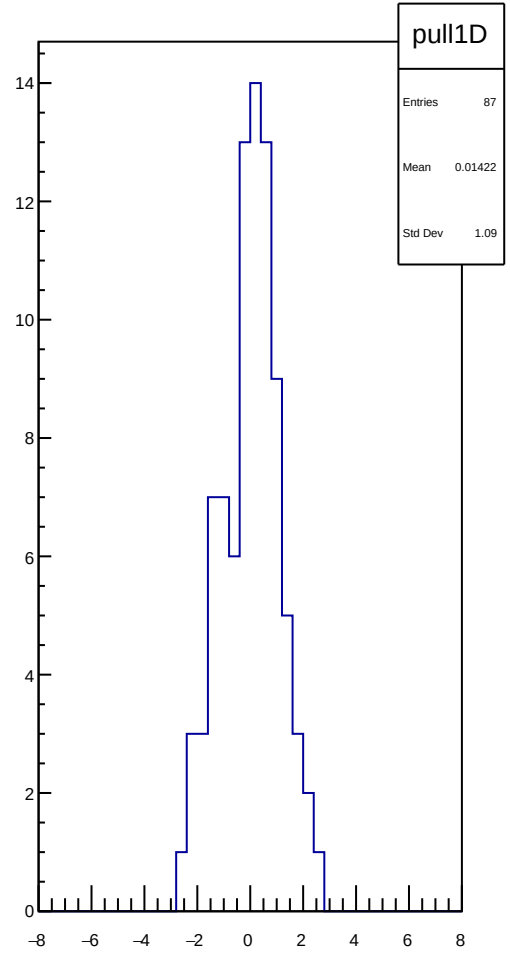

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.76 / 86
p0 −12.56 ± 1.786
pull
Entries 87
Mean −63.45
Std Dev 0

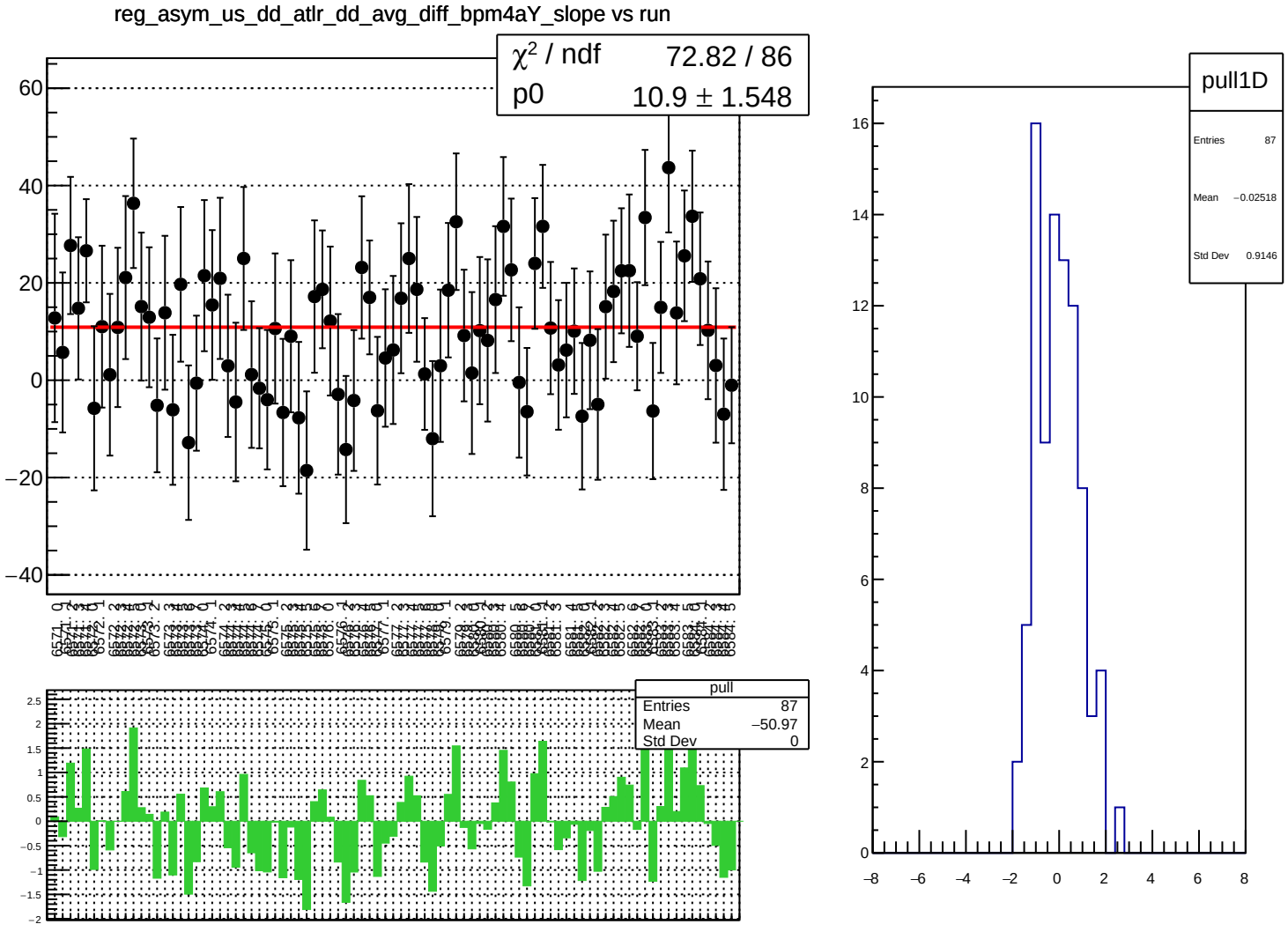

pull1D
Entries 87
Mean −0.02249
Std Dev 0.8691

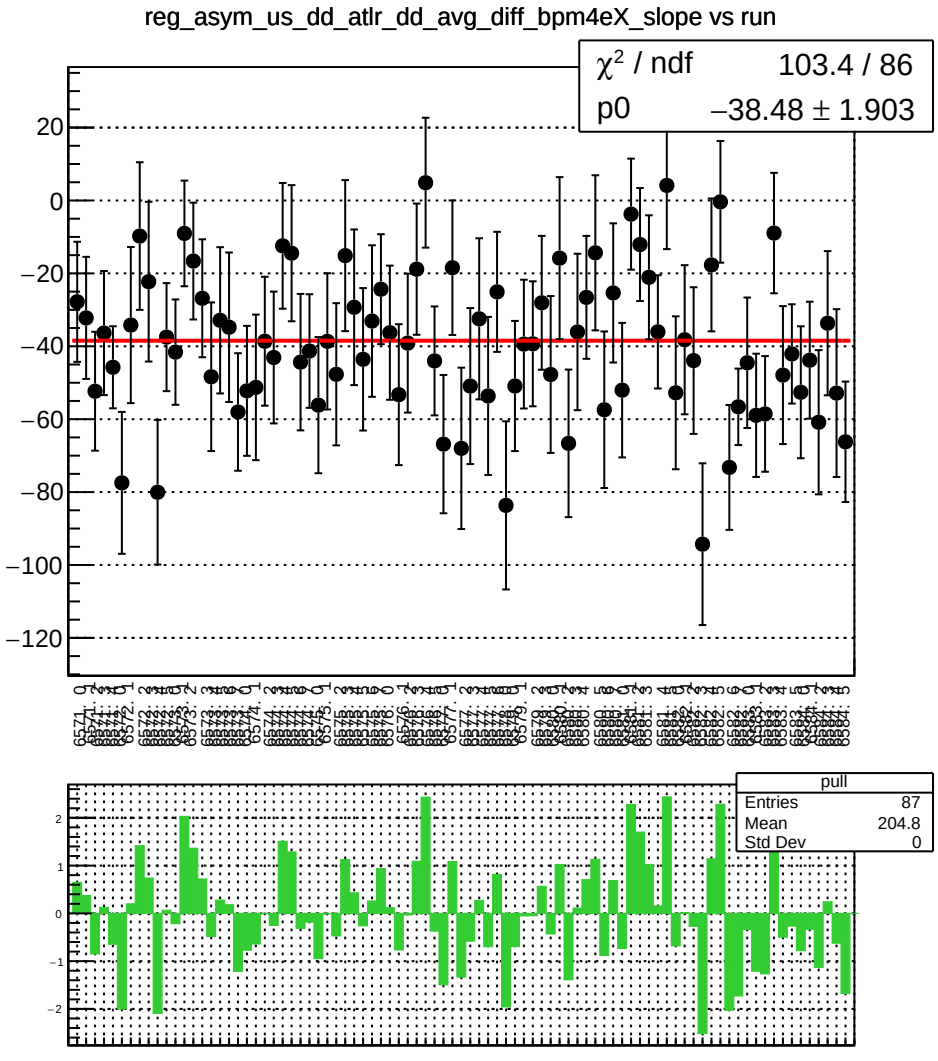

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.85 / 86
p0 1.829 ± 1.74
pull
Entries 87
Mean −484.6
Std Dev 0
pull1D
Entries 87
Mean −0.01041
Std Dev 0.8831

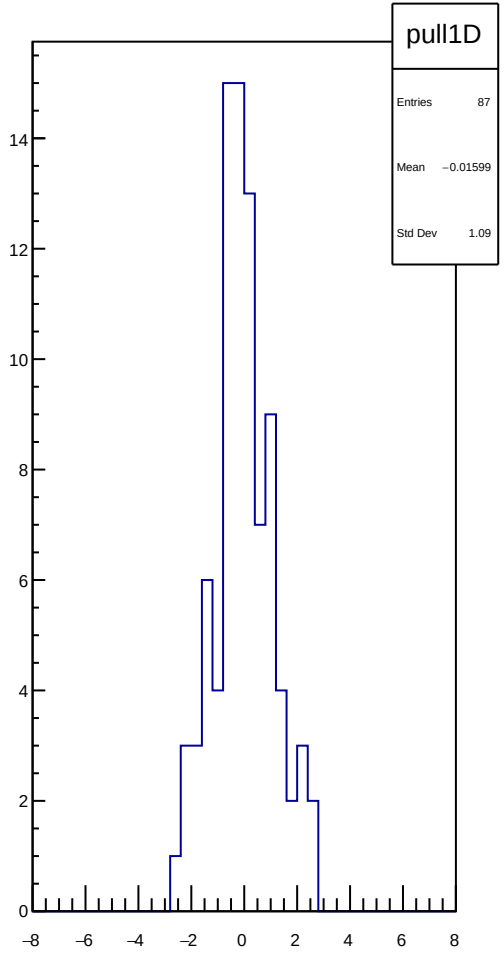

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 97.23 / 86
p0 16.92 ± 0.07908
pull
Entries 87
Mean −45.07
Std Dev 0
pull1D
Entries 87
Mean 0.03125
Std Dev 1.057

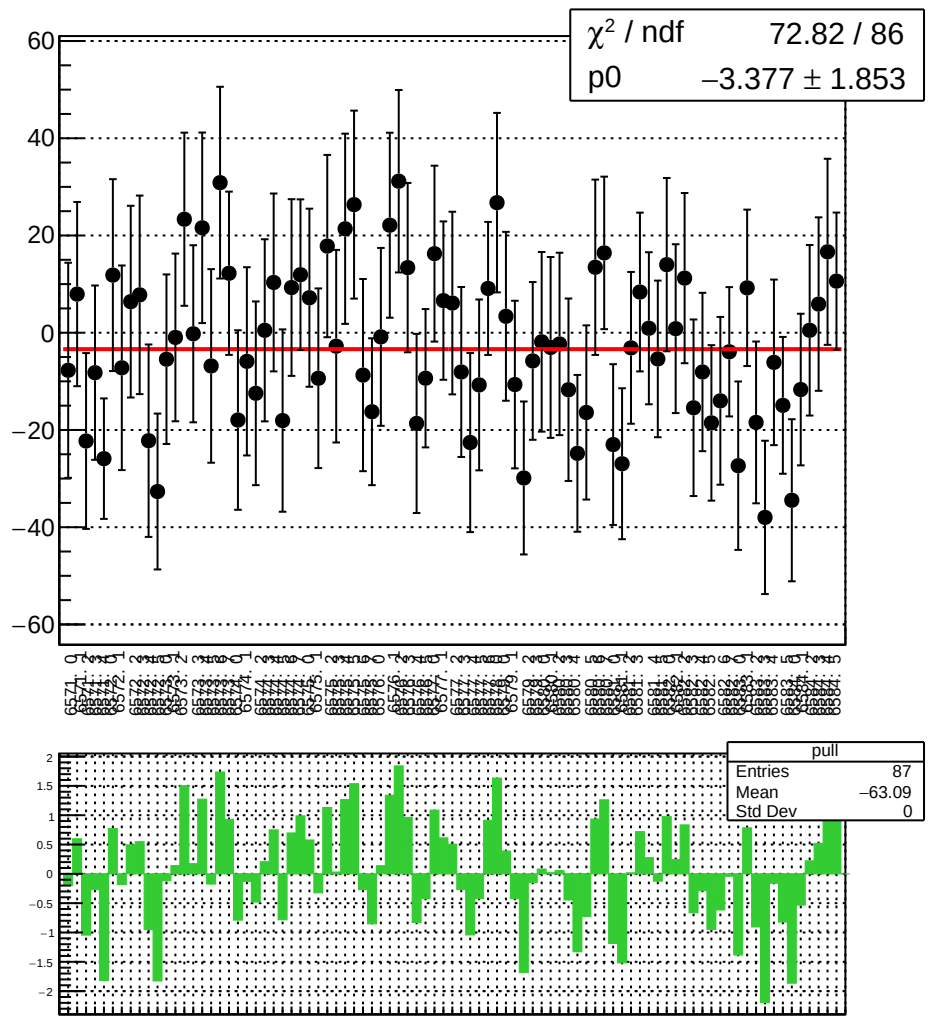

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 103.5 / 86
p0 −34.24 ± 1.851
pull
Entries 87
Mean 223.7
Std Dev 0

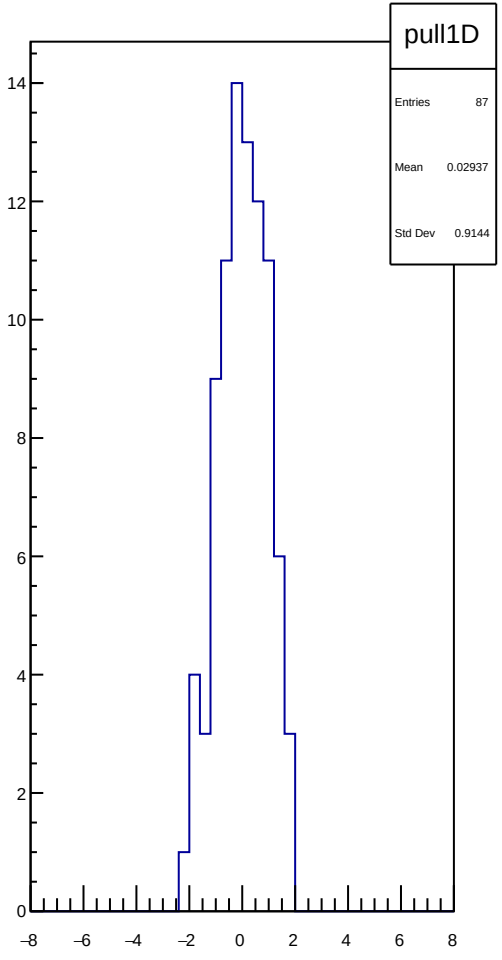

pull1D
Entries 87
Mean 0.01422
Std Dev 1.09

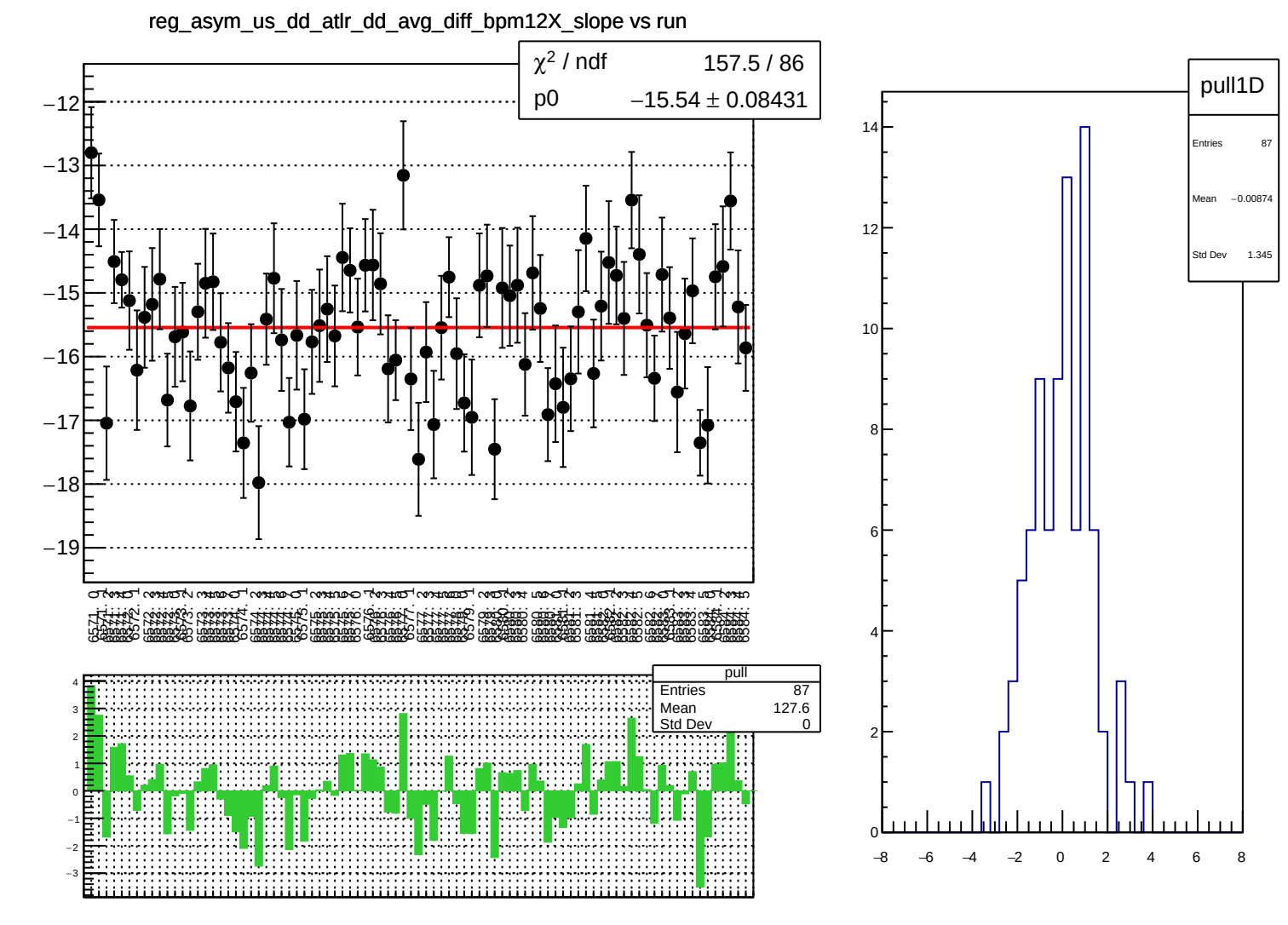

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 72.82 / 86
p0 10.9 ± 1.548
pull
Entries 87
Mean −50.97
Std Dev 0
pull1D
Entries 87
Mean −0.02518
Std Dev 0.9146

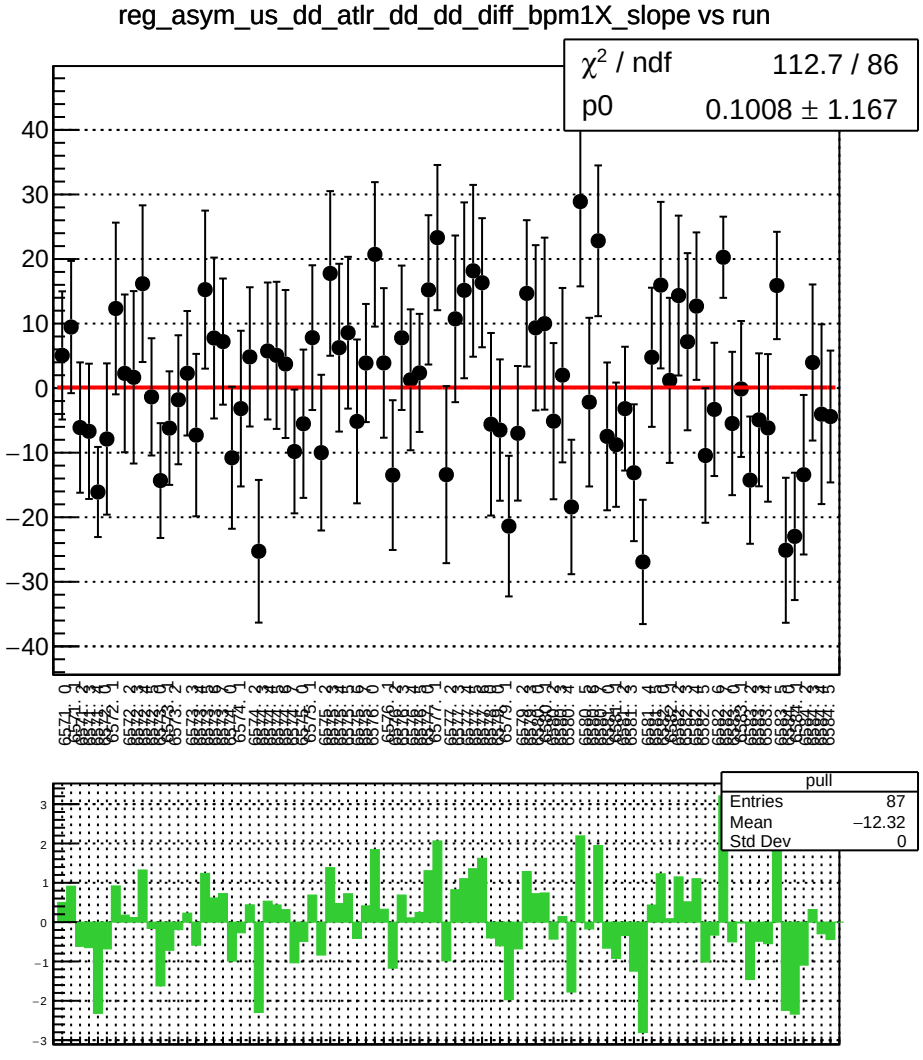

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.4 / 86
p0 −38.48 ± 1.903
pull
Entries 87
Mean 204.8
Std Dev 0

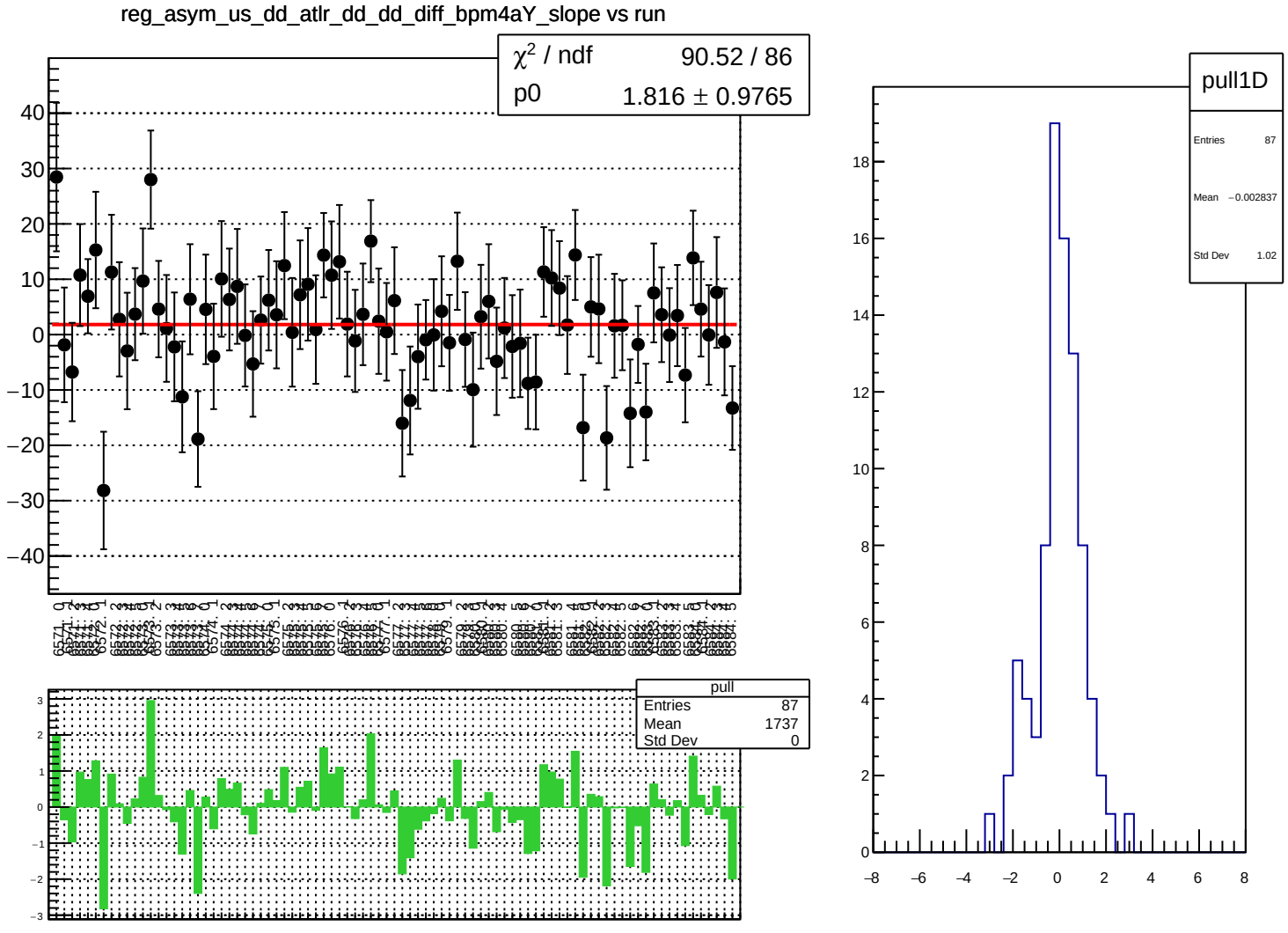

pull1D
Entries 87
Mean −0.01599
Std Dev 1.09

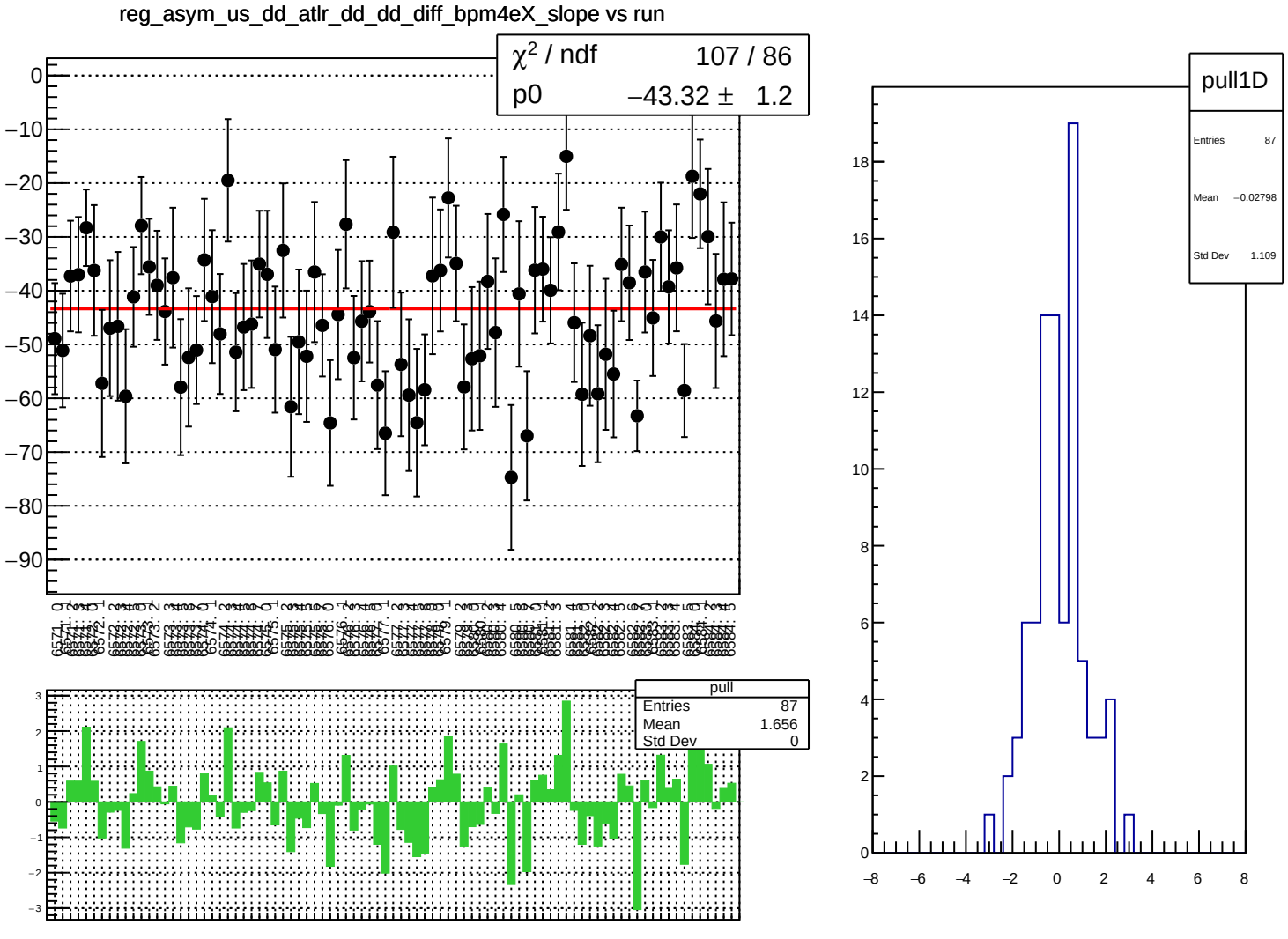

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.82 / 86
p0 −3.377 ± 1.853
pull
Entries 87
Mean −63.09
Std Dev 0

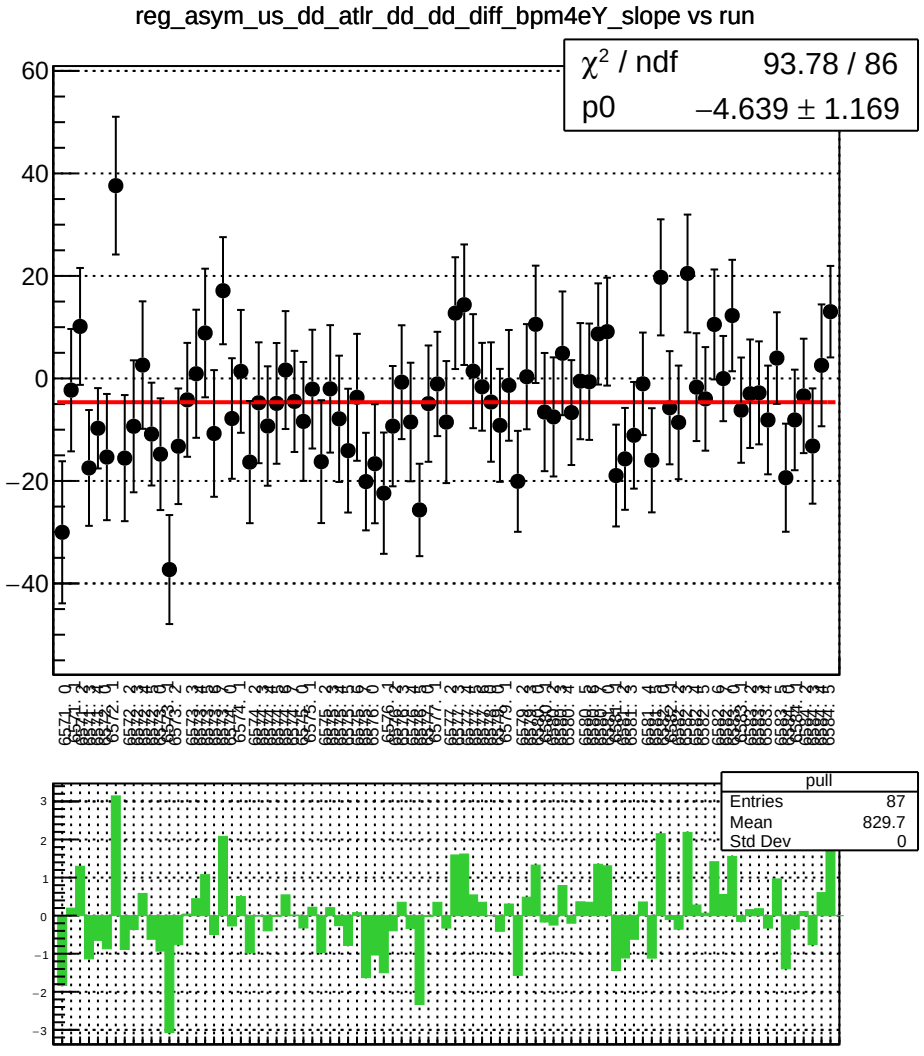

pull1D
Entries 87
Mean 0.02937
Std Dev 0.9144

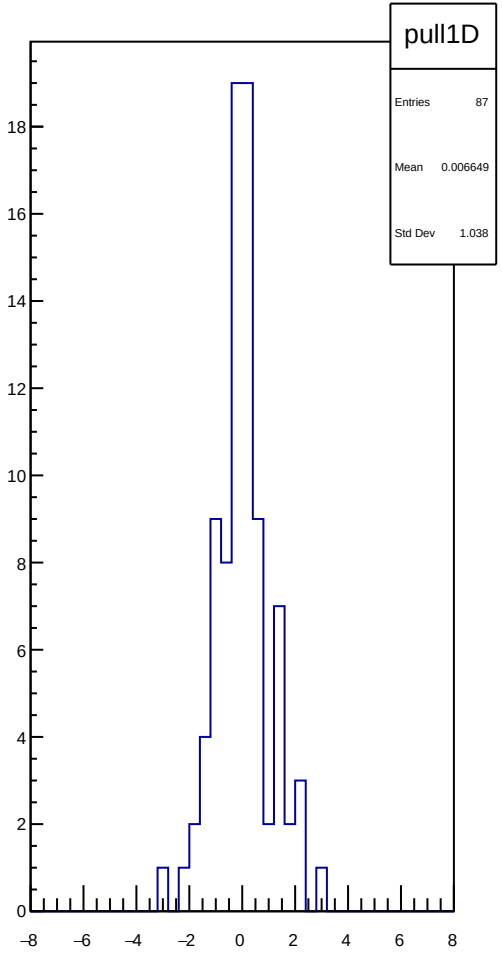

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 157.5 / 86
p0 −15.54 ± 0.08431
pull
Entries 87
Mean 127.6
Std Dev 0
pull1D
Entries 87
Mean −0.00874
Std Dev 1.345

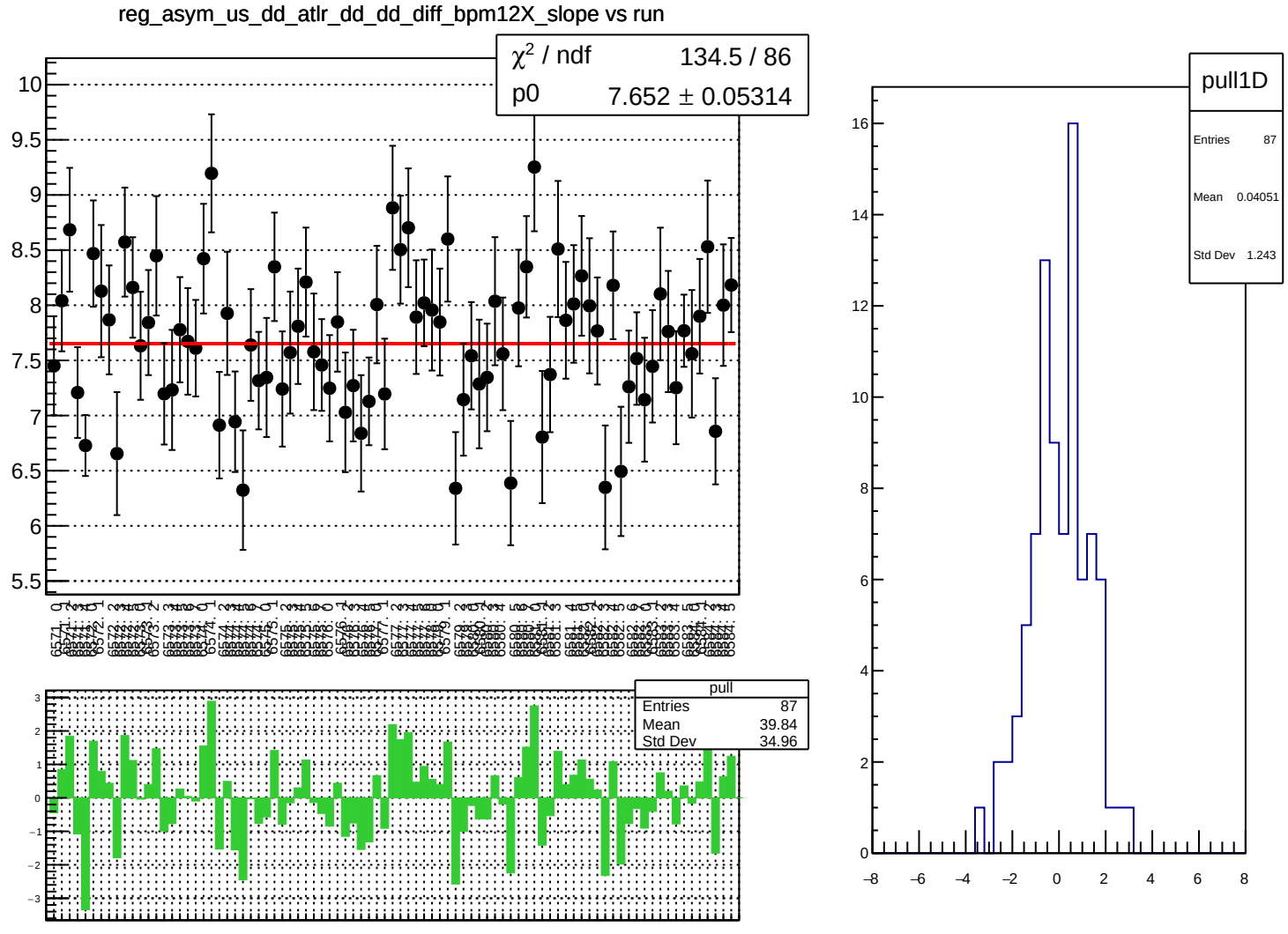

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 112.7 / 86
p0 0.1008 ± 1.167
pull
Entries 87
Mean −12.32
Std Dev 0
pull1D
Entries 87
Mean 0.02118
Std Dev 1.138

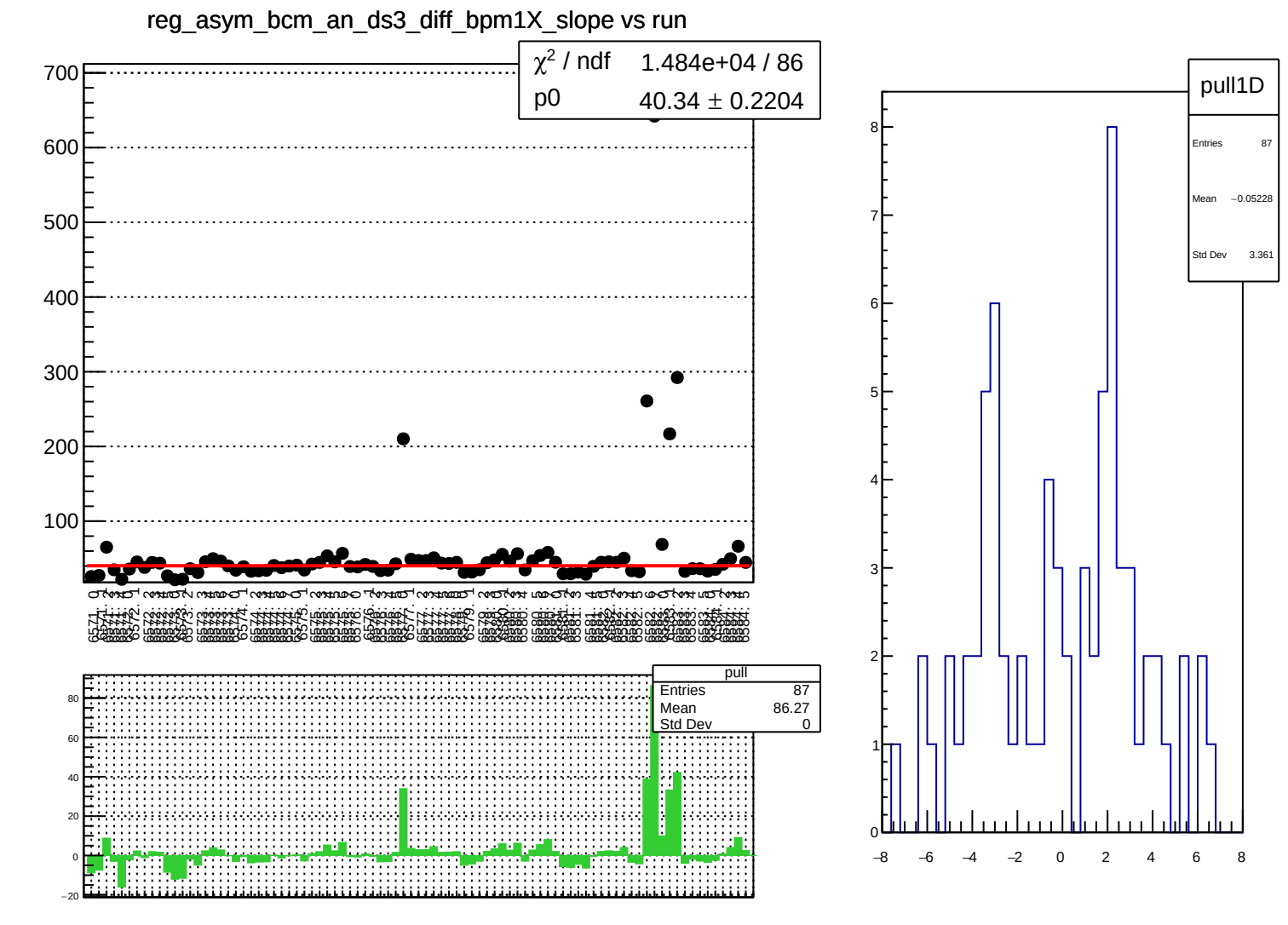

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.52 / 86
p0 1.816 ± 0.9765
pull
Entries 87
Mean 1737
Std Dev 0
pull1D
Entries 87
Mean −0.002837
Std Dev 1.02

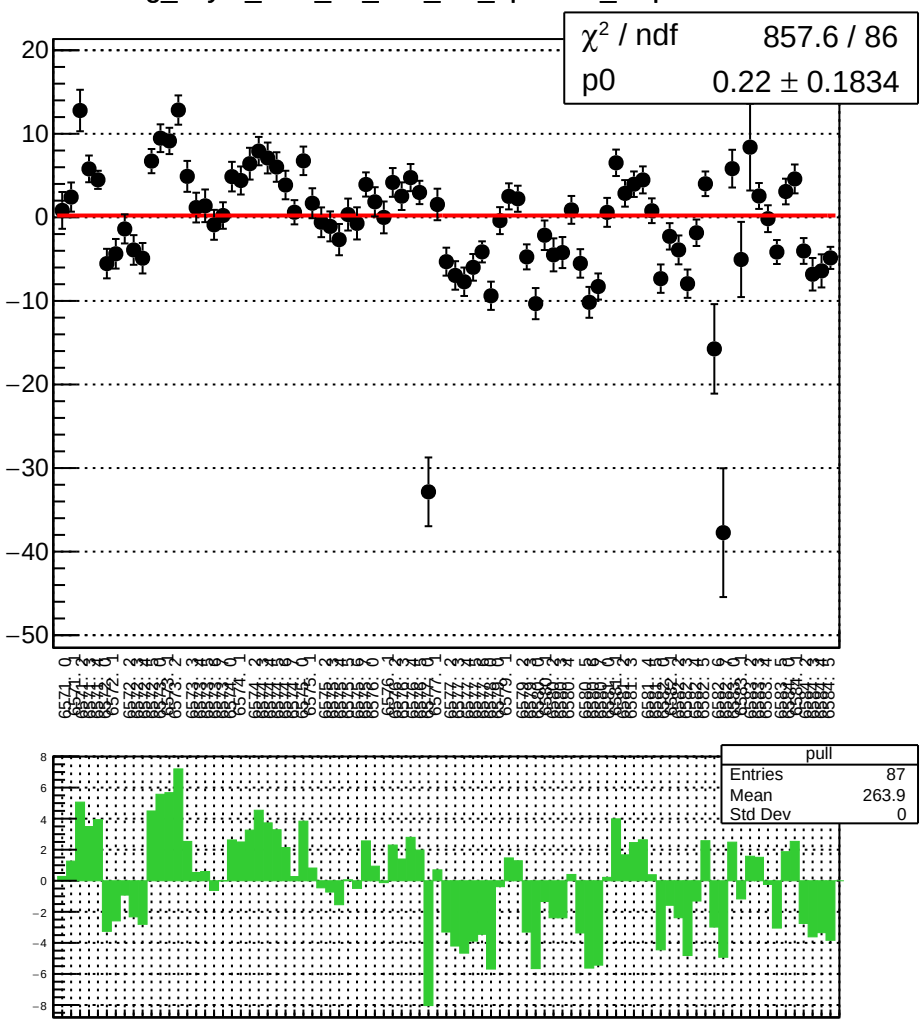

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 107 / 86
p0 −43.32 ± 1.2
pull
Entries 87
Mean 1.656
Std Dev 0
pull1D
Entries 87
Mean −0.02798
Std Dev 1.109

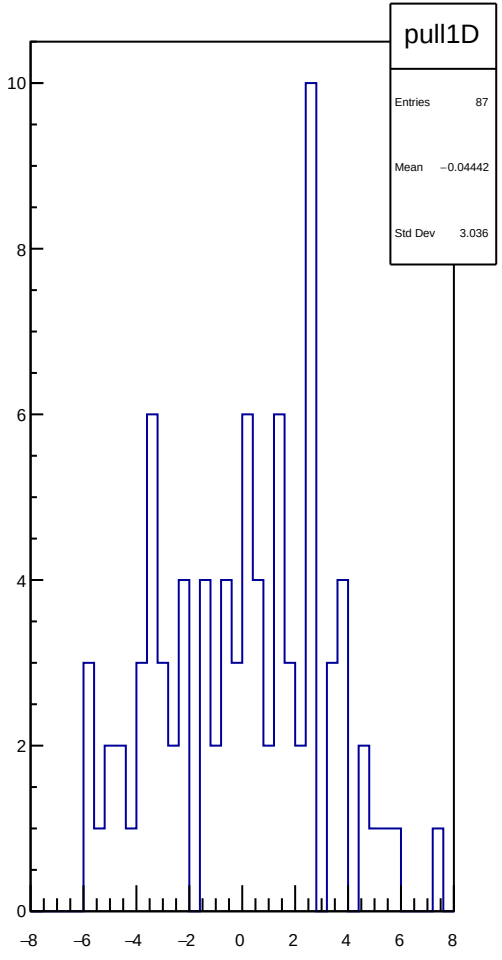

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.78 / 86
p0 −4.639 ± 1.169
pull
Entries 87
Mean 829.7
Std Dev 0

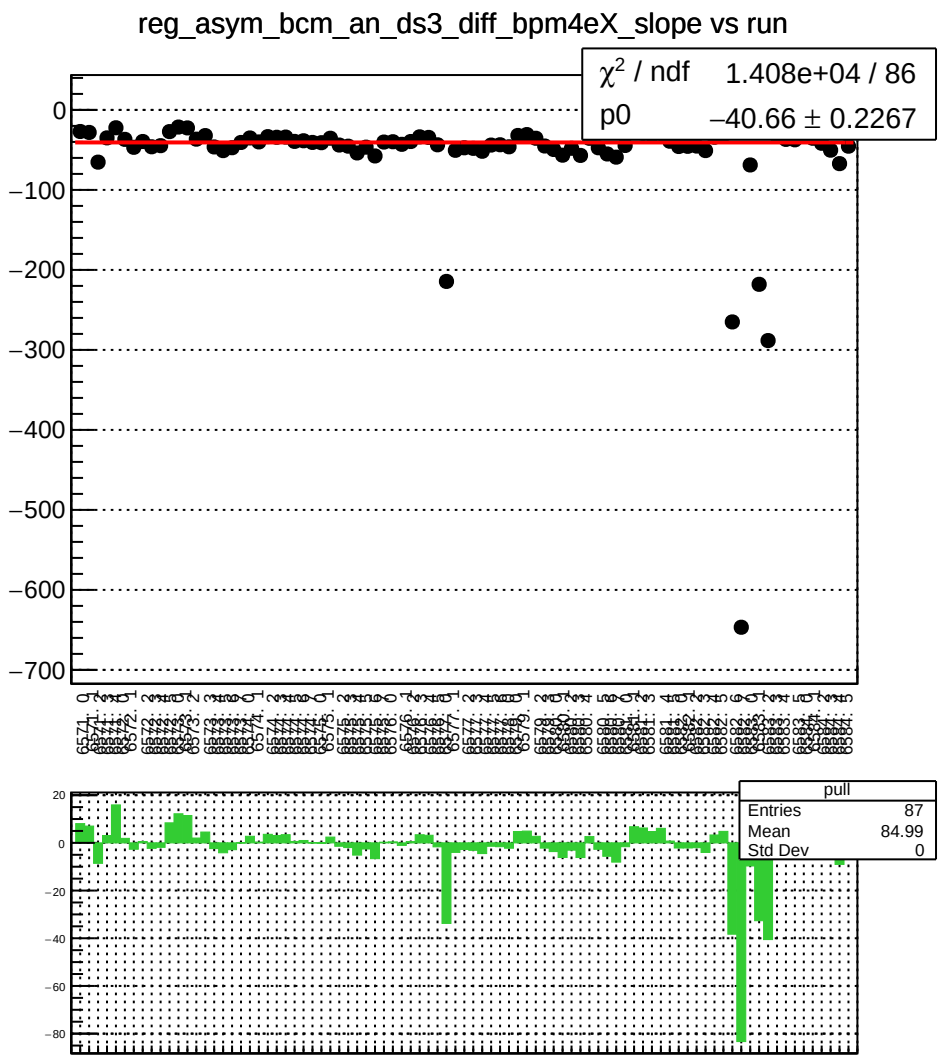

pull1D
Entries 87
Mean 0.006649
Std Dev 1.038

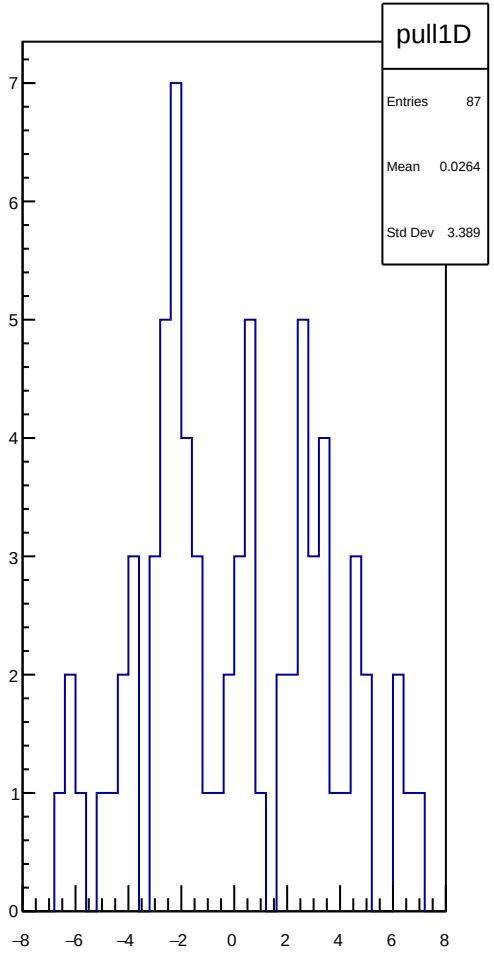

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 134.5 / 86
p0 7.652 ± 0.05314
pull
Entries 87
Mean 39.84
Std Dev 34.96
pull1D
Entries 87
Mean 0.04051
Std Dev 1.243

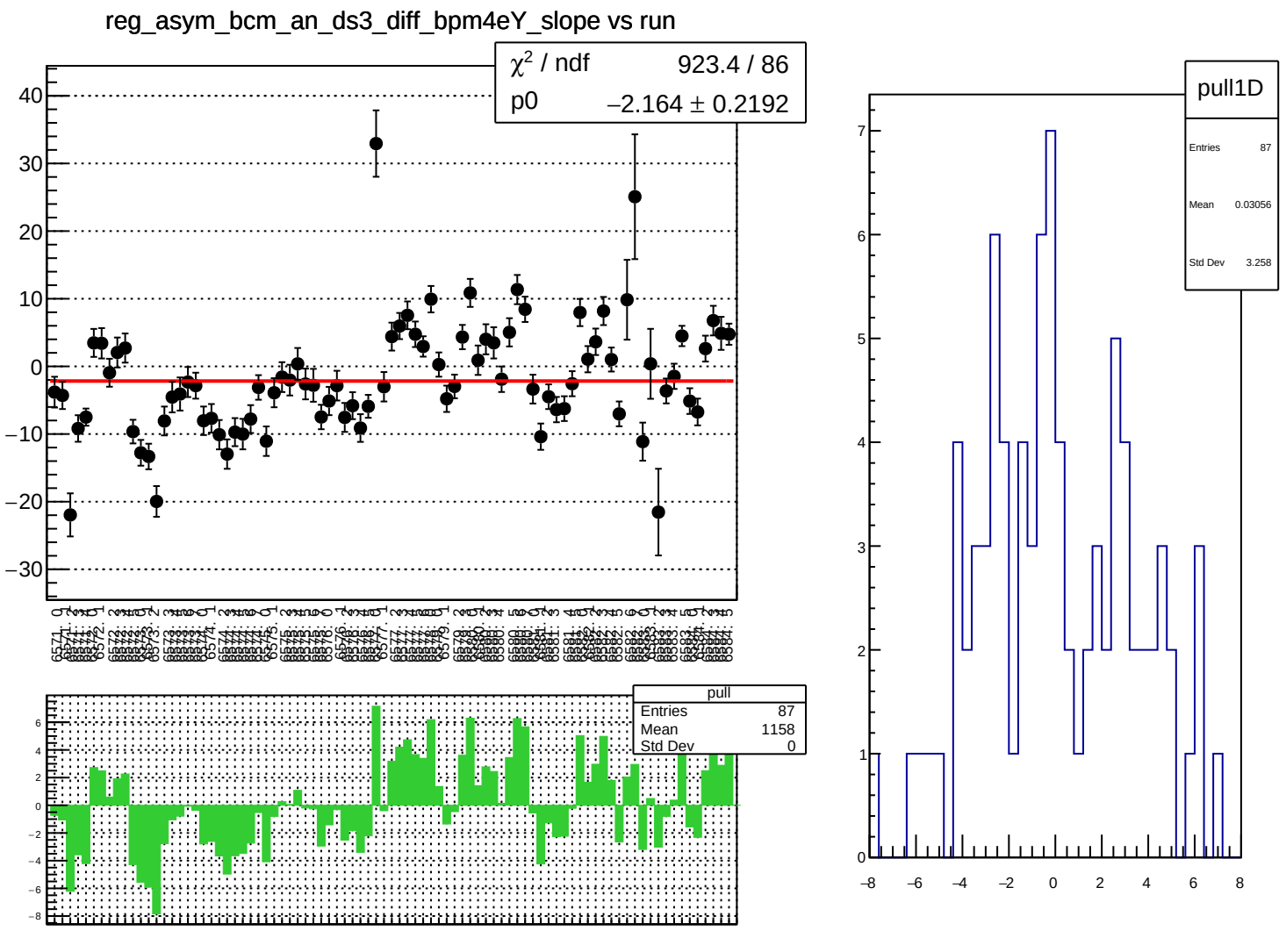

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 1.484e+04 / 86
p0 40.34 ± 0.2204
pull
Entries 87
Mean 86.27
Std Dev 0
pull1D
Entries 87
Mean −0.05228
Std Dev 3.361

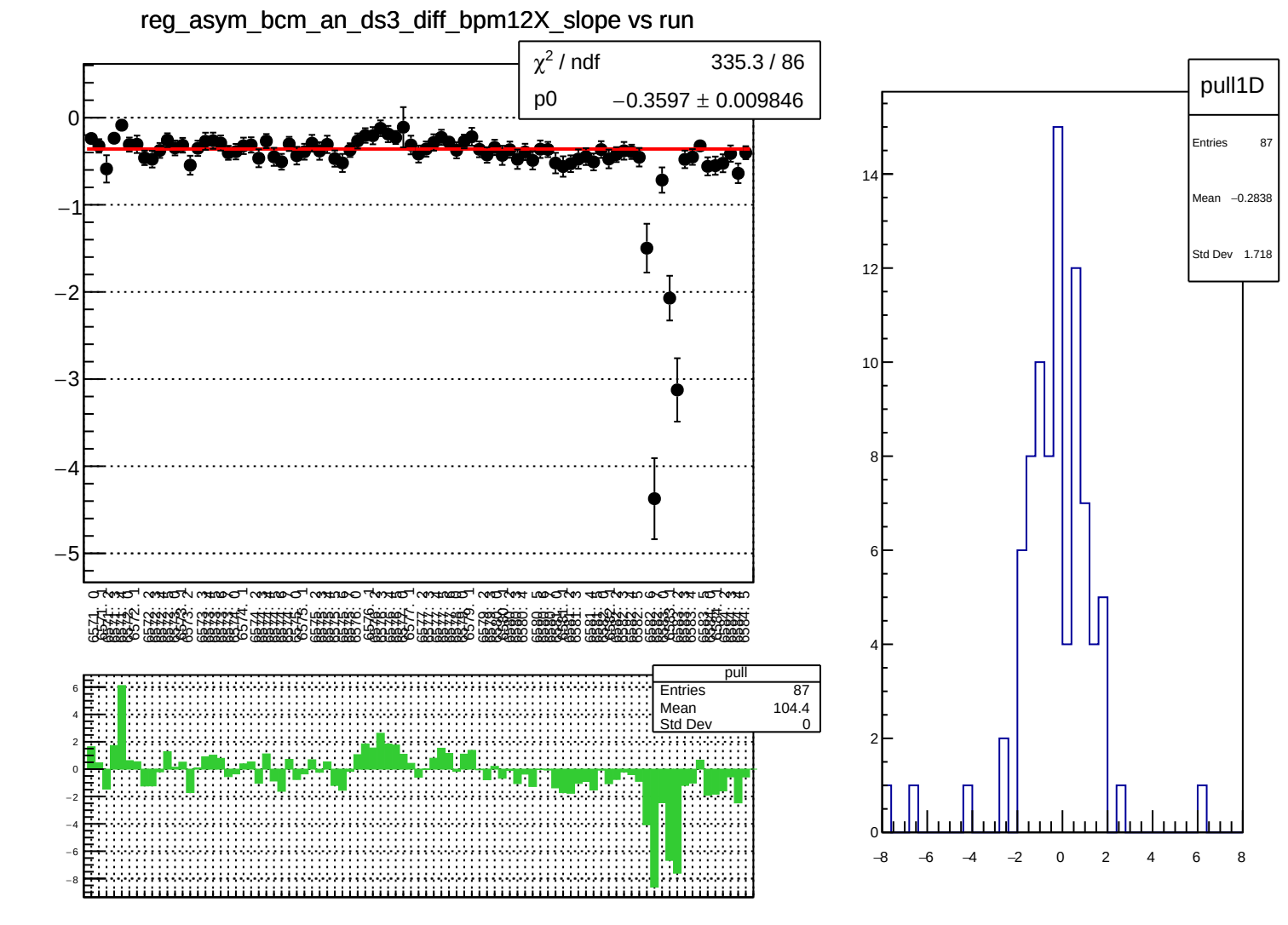

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 857.6 / 86
p0 0.22 ± 0.1834
pull
Entries 87
Mean 263.9
Std Dev 0

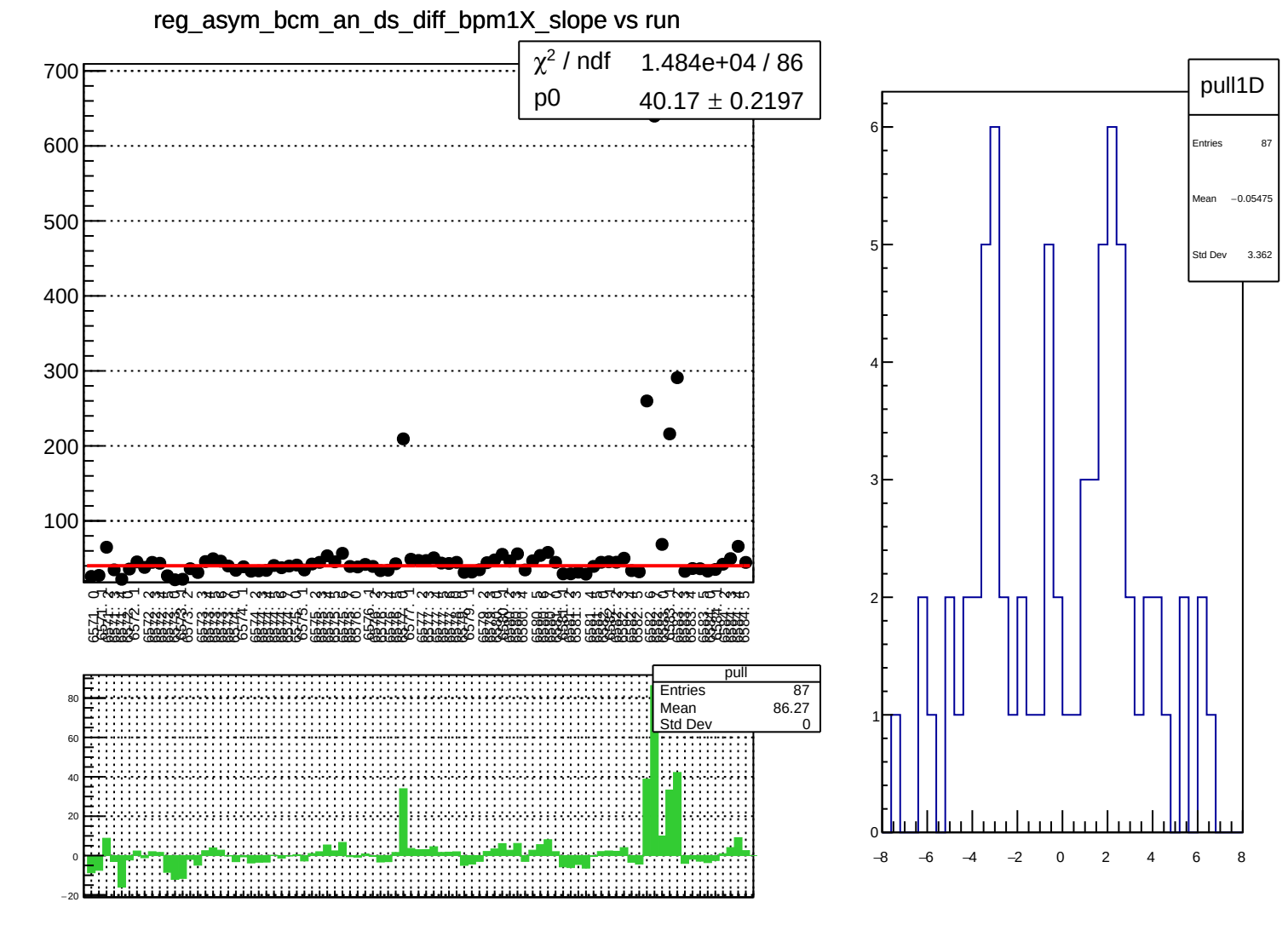

pull1D
Entries 87
Mean −0.04442
Std Dev 3.036

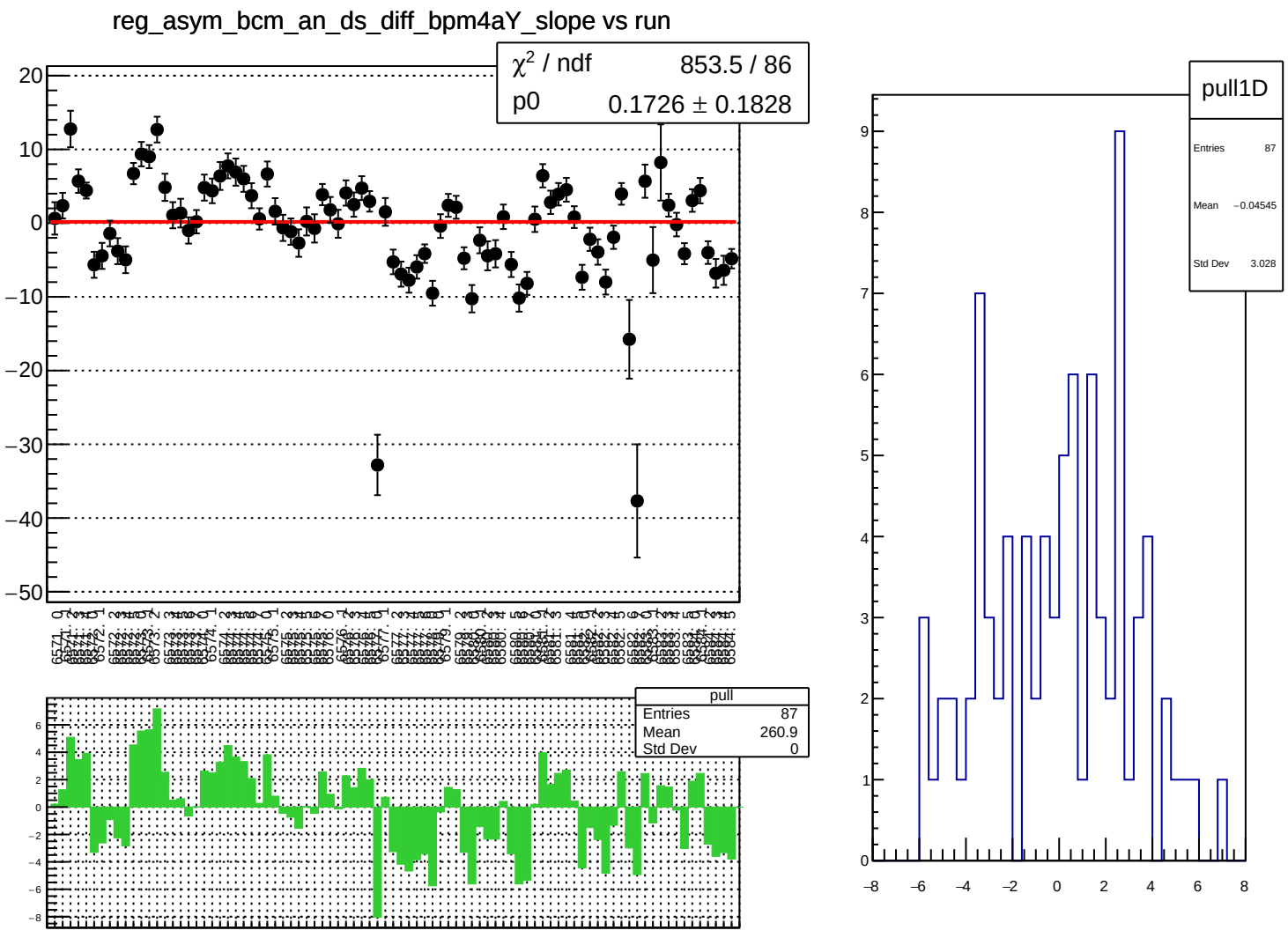

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 1.408e+04 / 86
p0 −40.66 ± 0.2267
pull
Entries 87
Mean 84.99
Std Dev 0

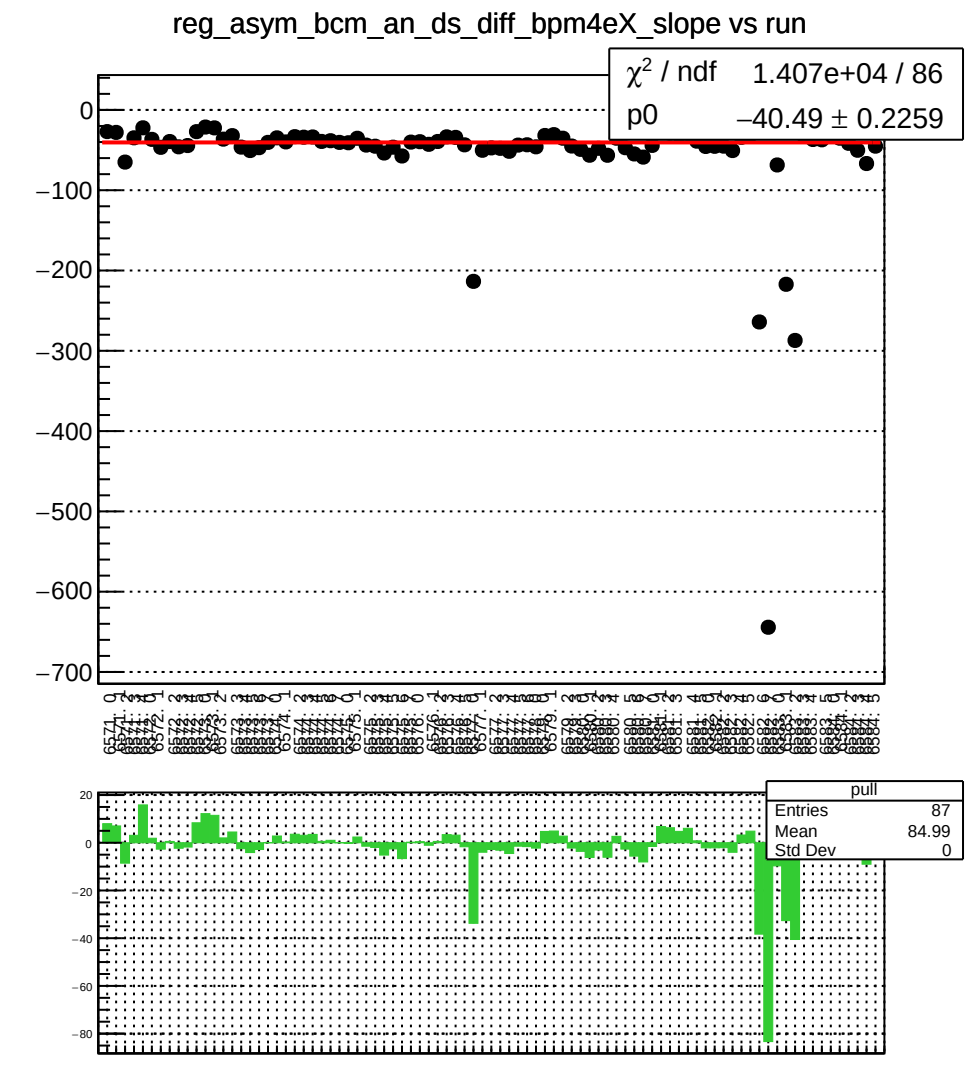

pull1D
Entries 87
Mean 0.0264
Std Dev 3.389

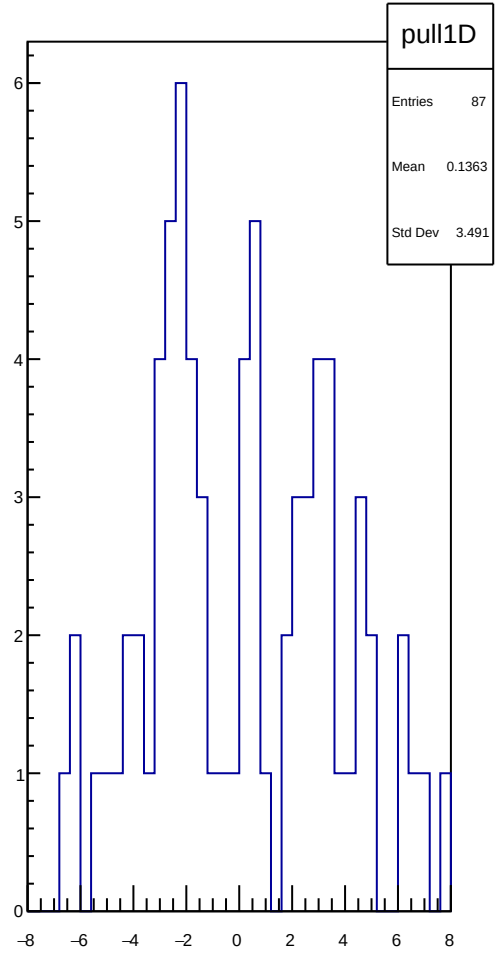

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 923.4 / 86
p0 −2.164 ± 0.2192
pull
Entries 87
Mean 1158
Std Dev 0
pull1D
Entries 87
Mean 0.03056
Std Dev 3.258

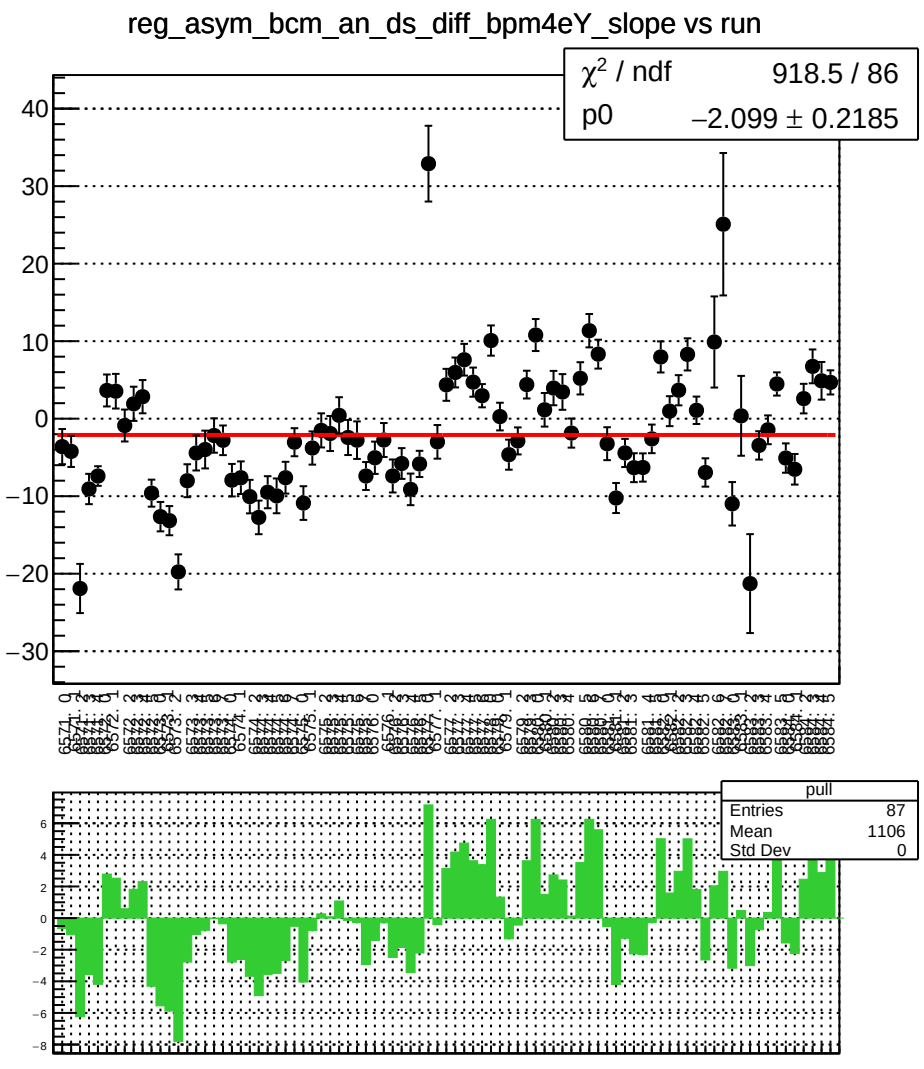

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 335.3 / 86
p0 −0.3597 ± 0.009846
pull
Entries 87
Mean 104.4
Std Dev 0
pull1D
Entries 87
Mean −0.2838
Std Dev 1.718

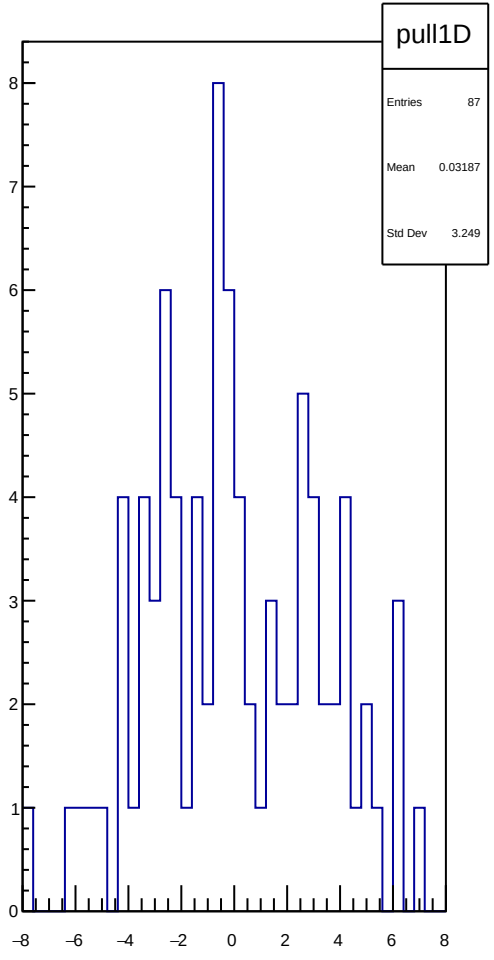

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 1.484e+04 / 86
p0 40.17 ± 0.2197
pull
Entries 87
Mean 86.27
Std Dev 0
pull1D
Entries 87
Mean −0.05475
Std Dev 3.362

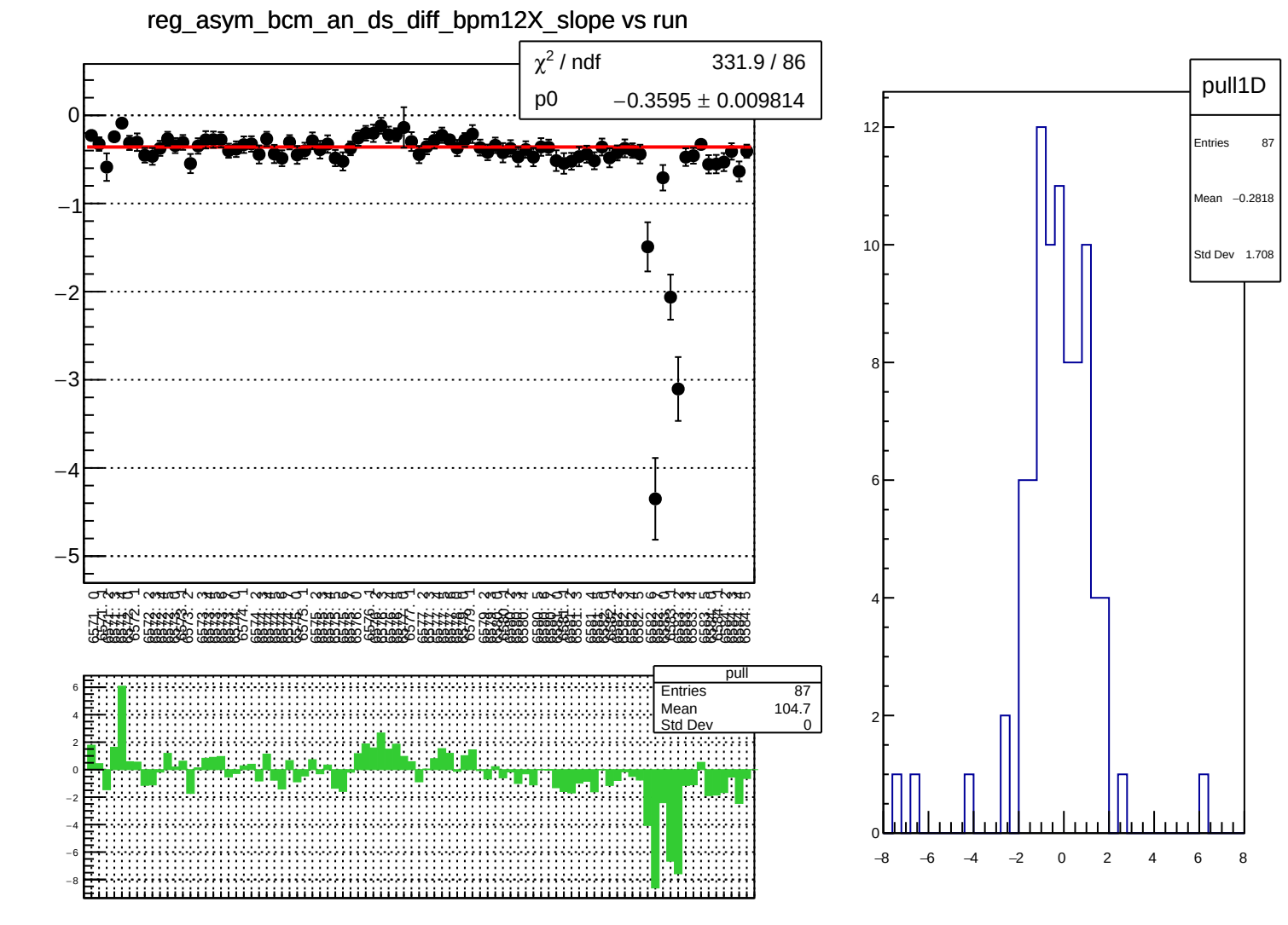

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 853.5 / 86
p0 0.1726 ± 0.1828
pull
Entries 87
Mean 260.9
Std Dev 0
pull1D
Entries 87
Mean −0.04545
Std Dev 3.028

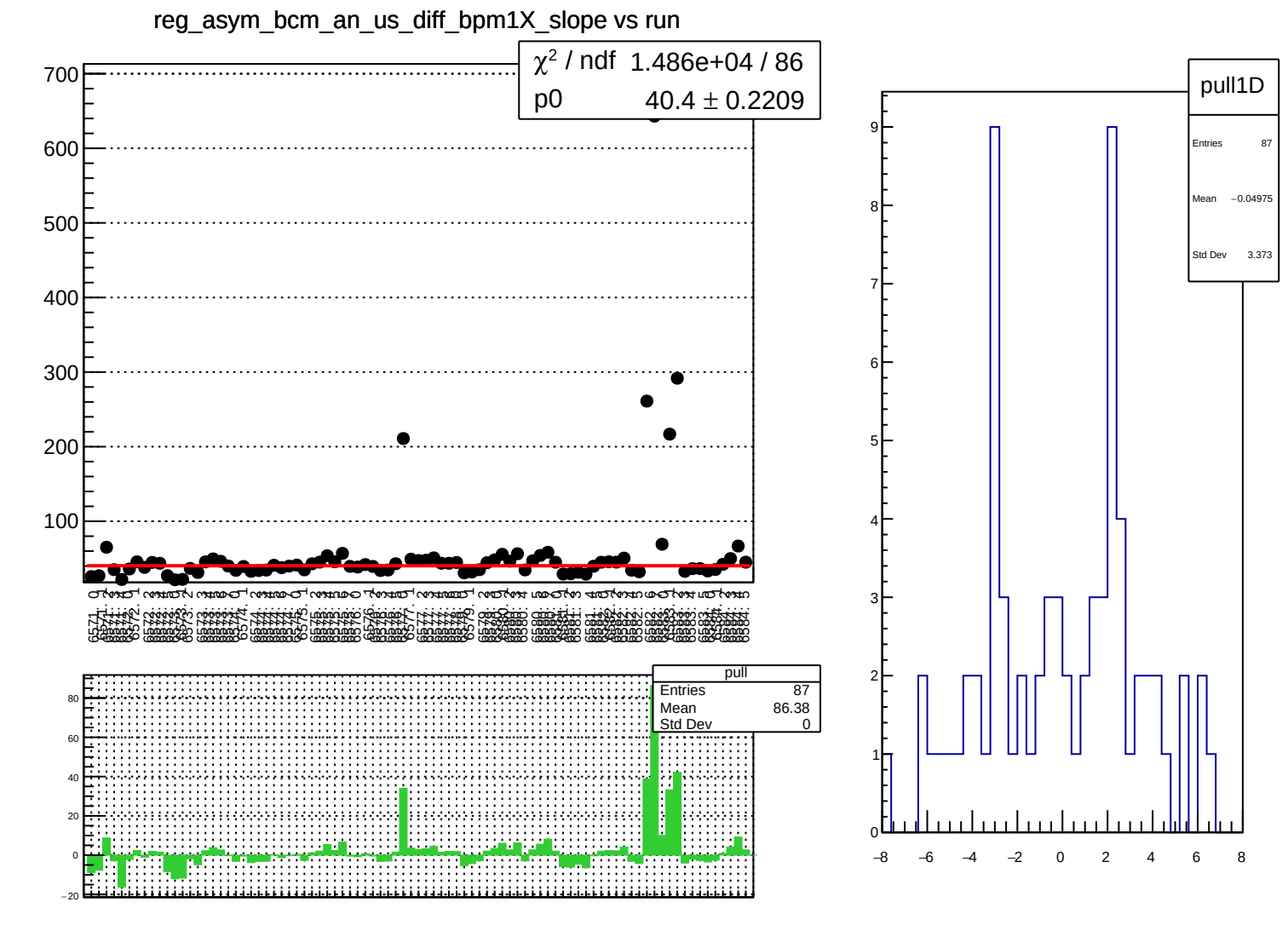

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 1.407e+04 / 86
p0 −40.49 ± 0.2259
pull
Entries 87
Mean 84.99
Std Dev 0

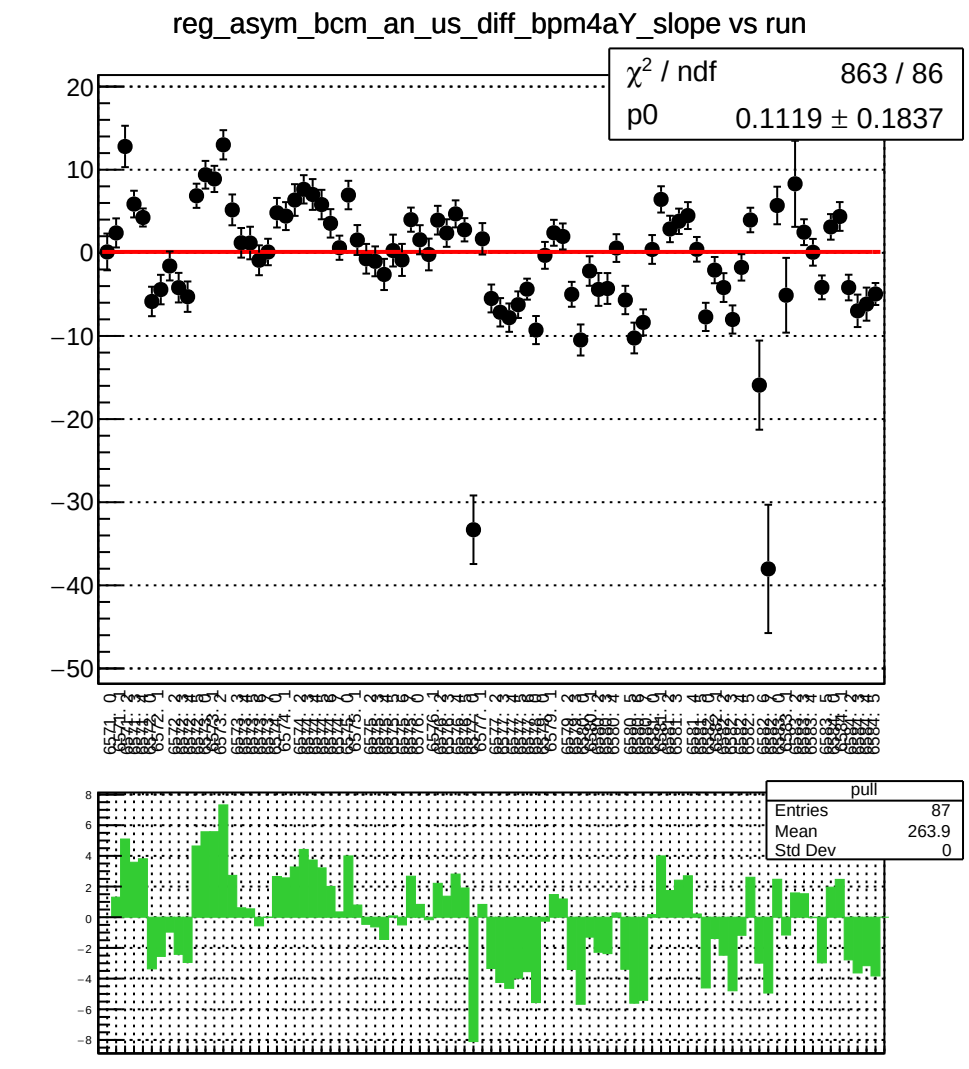

pull1D
Entries 87
Mean 0.1363
Std Dev 3.491

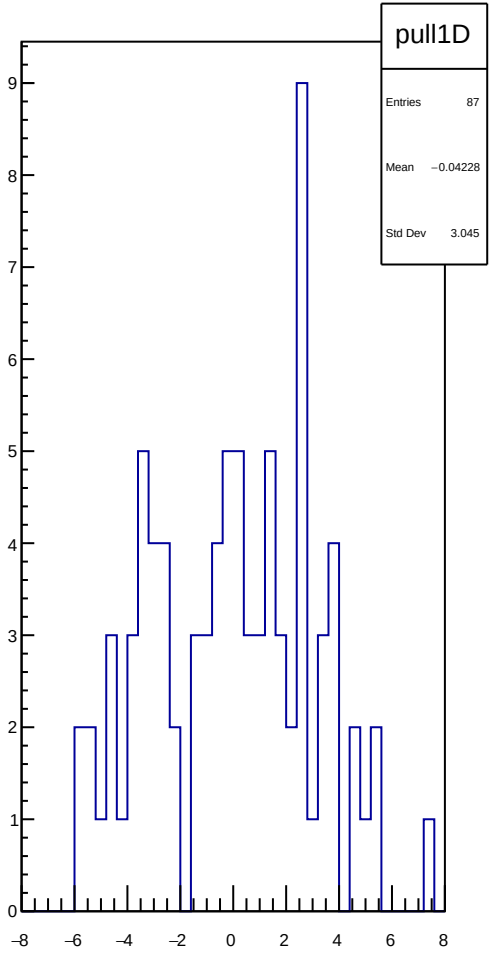

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 918.5 / 86
p0 −2.099 ± 0.2185
pull
Entries 87
Mean 1106
Std Dev 0

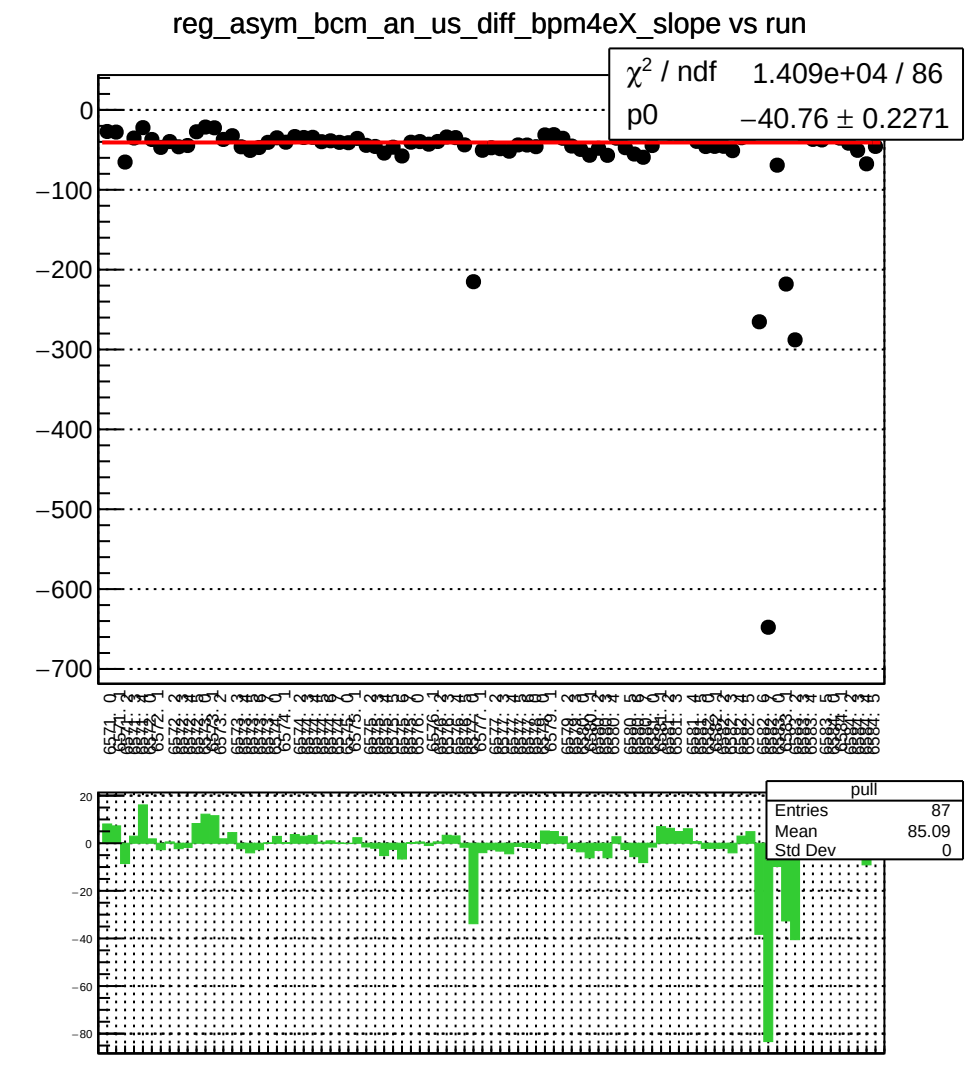

pull1D
Entries 87
Mean 0.03187
Std Dev 3.249

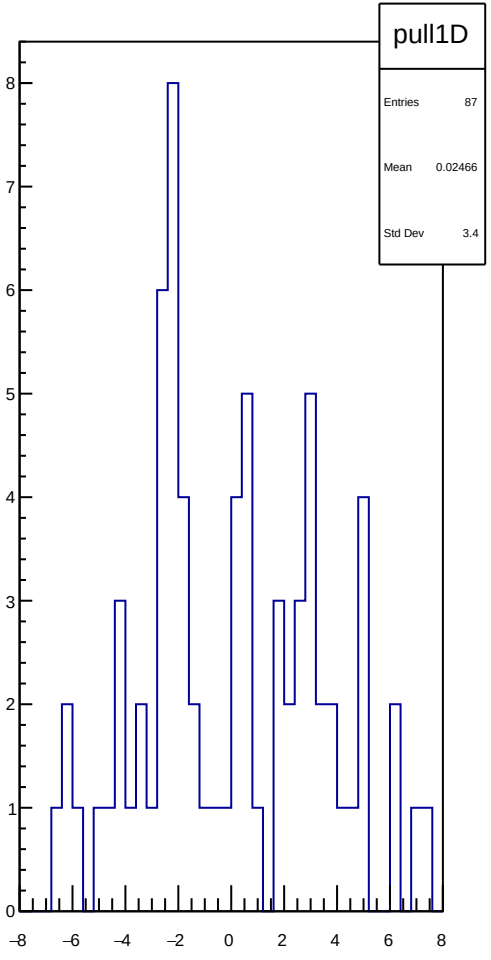

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 331.9 / 86
p0 −0.3595 ± 0.009814
pull
Entries 87
Mean 104.7
Std Dev 0
pull1D
Entries 87
Mean −0.2818
Std Dev 1.708

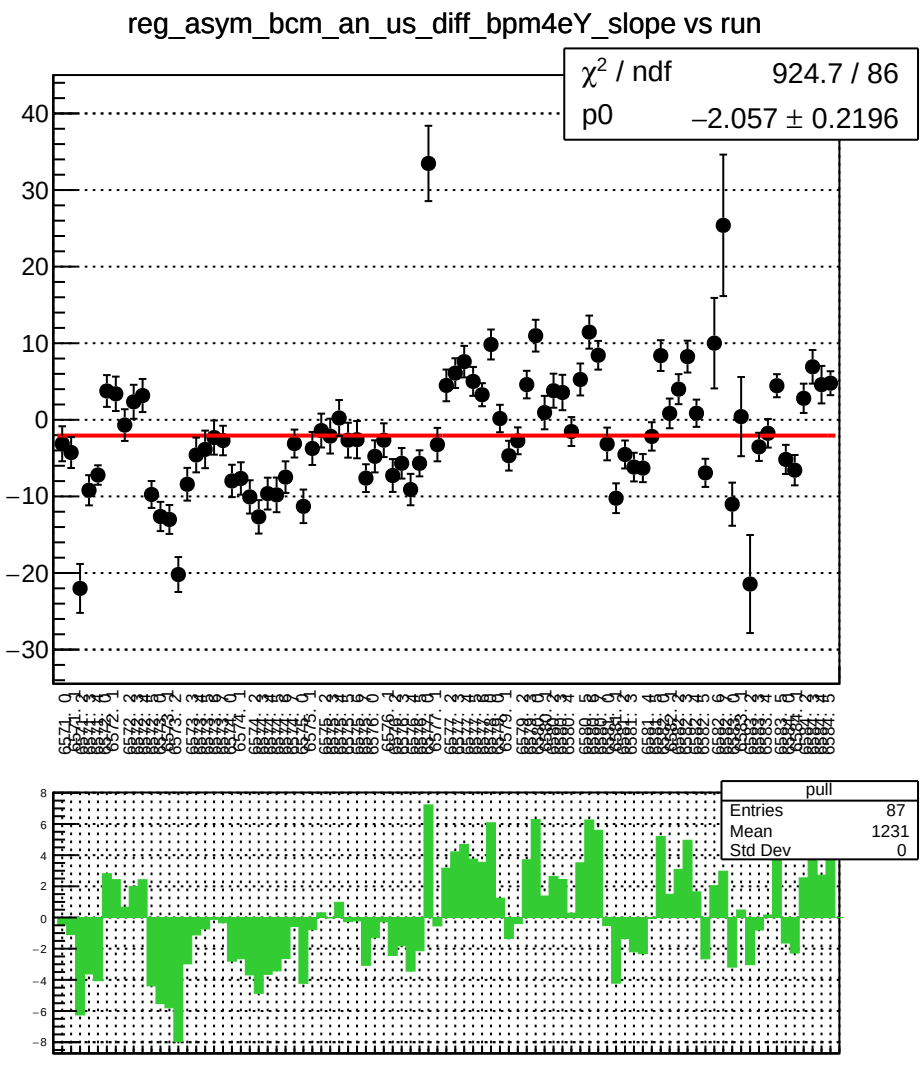

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 1.486e+04 / 86
p0 40.4 ± 0.2209
pull
Entries 87
Mean 86.38
Std Dev 0
pull1D
Entries 87
Mean −0.04975
Std Dev 3.373

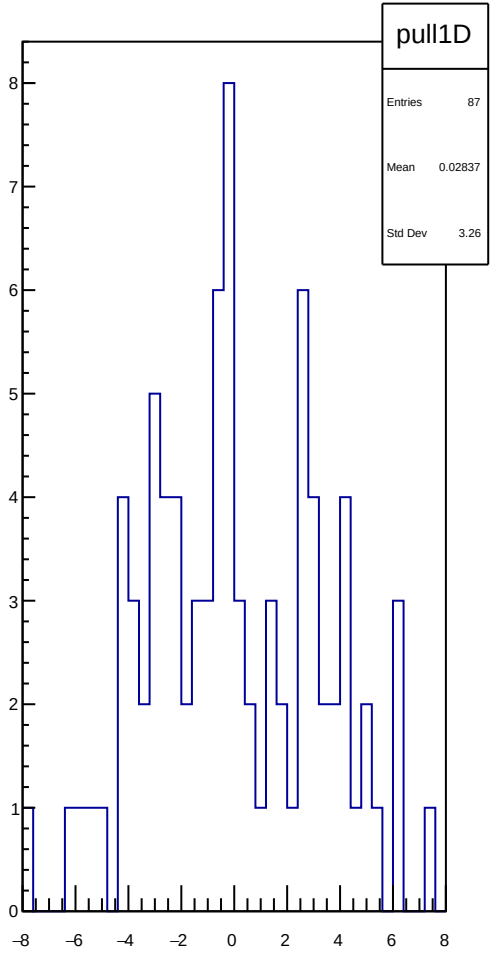

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 863 / 86
p0 0.1119 ± 0.1837
pull
Entries 87
Mean 263.9
Std Dev 0

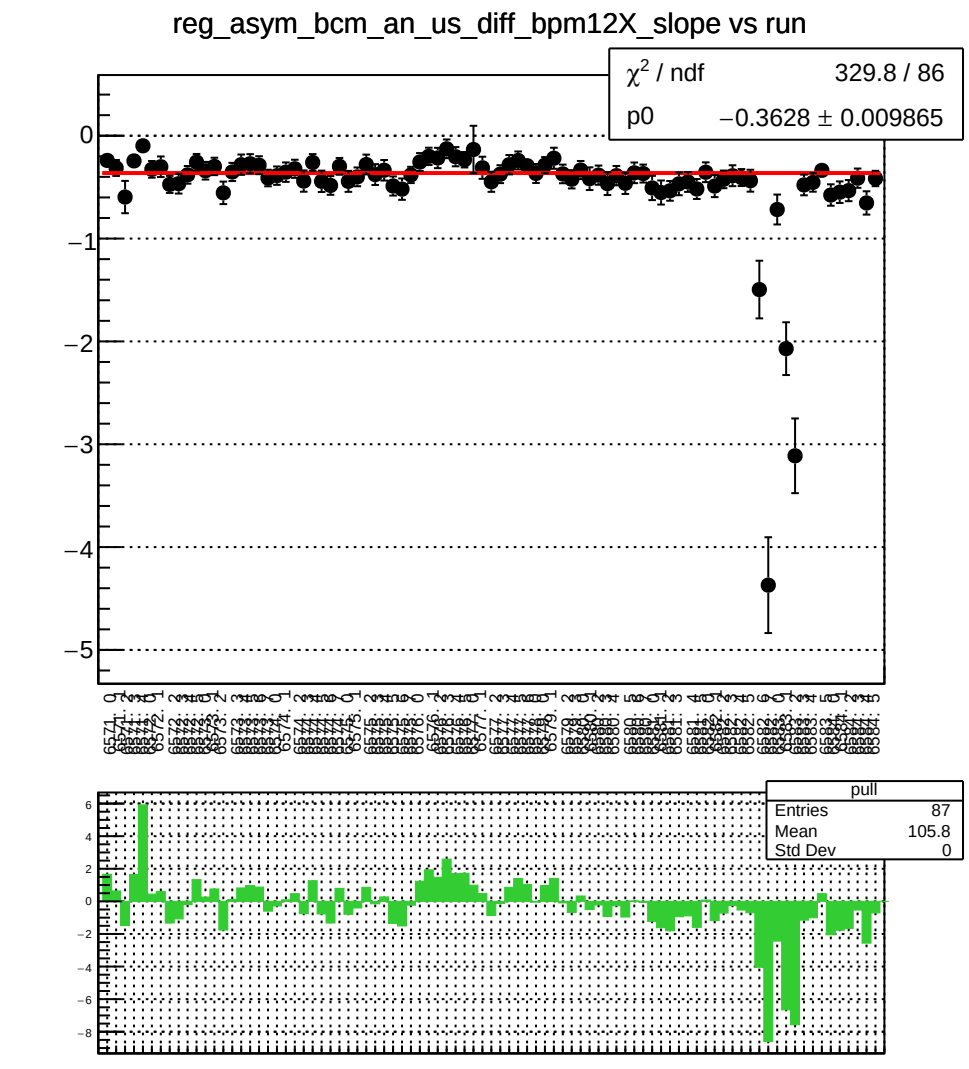

pull1D
Entries 87
Mean −0.04228
Std Dev 3.045

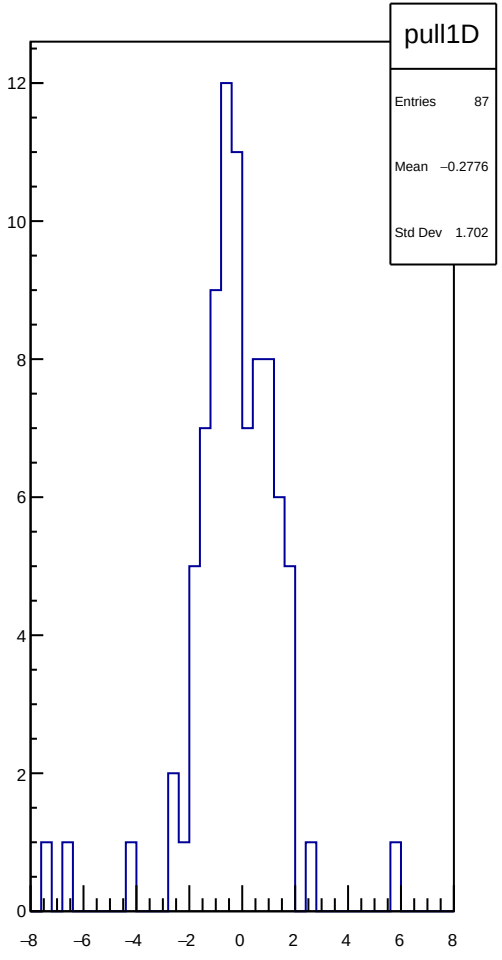

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 1.409e+04 / 86
p0 −40.76 ± 0.2271
pull
Entries 87
Mean 85.09
Std Dev 0

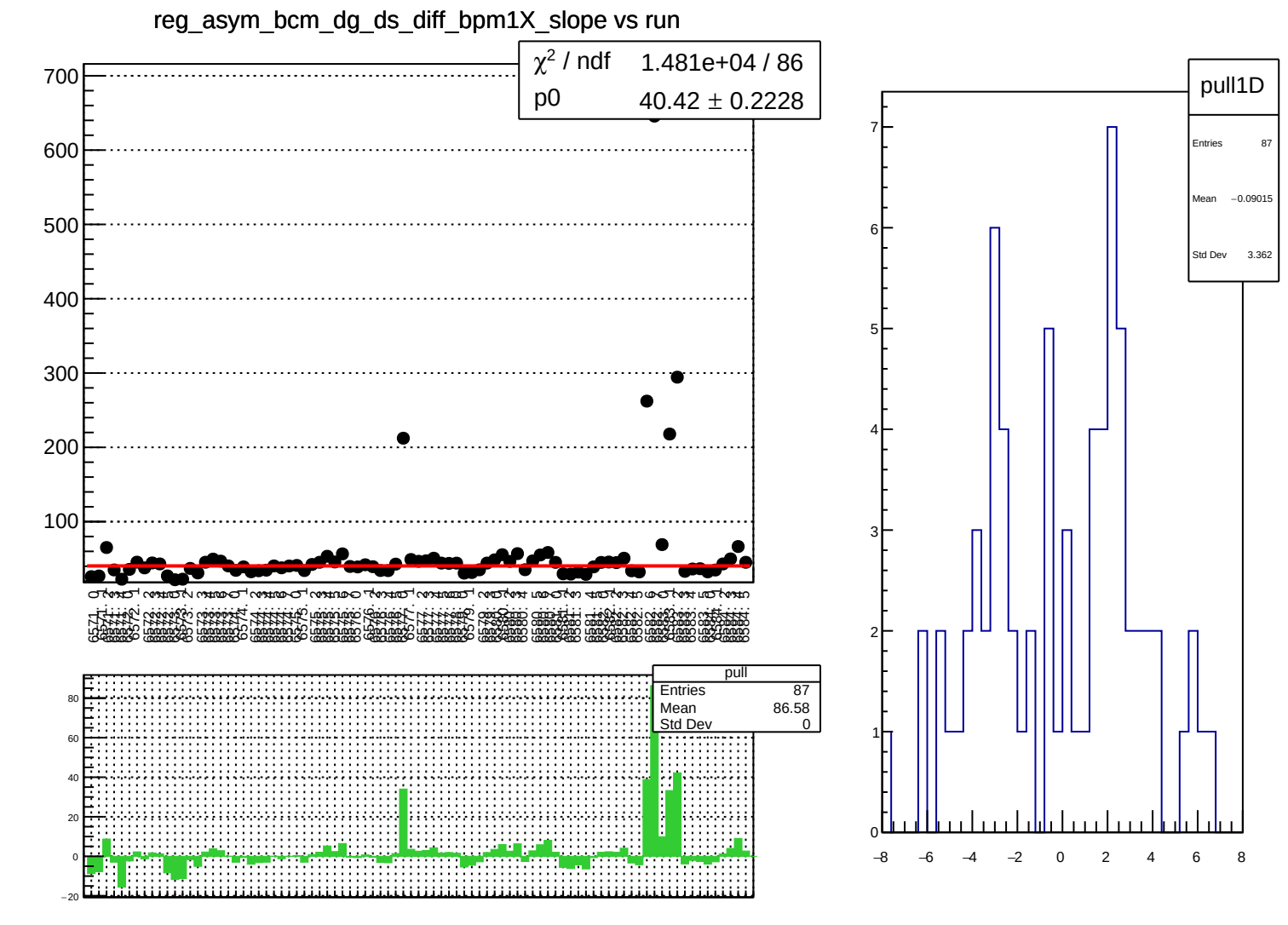

pull1D
Entries 87
Mean 0.02466
Std Dev 3.4

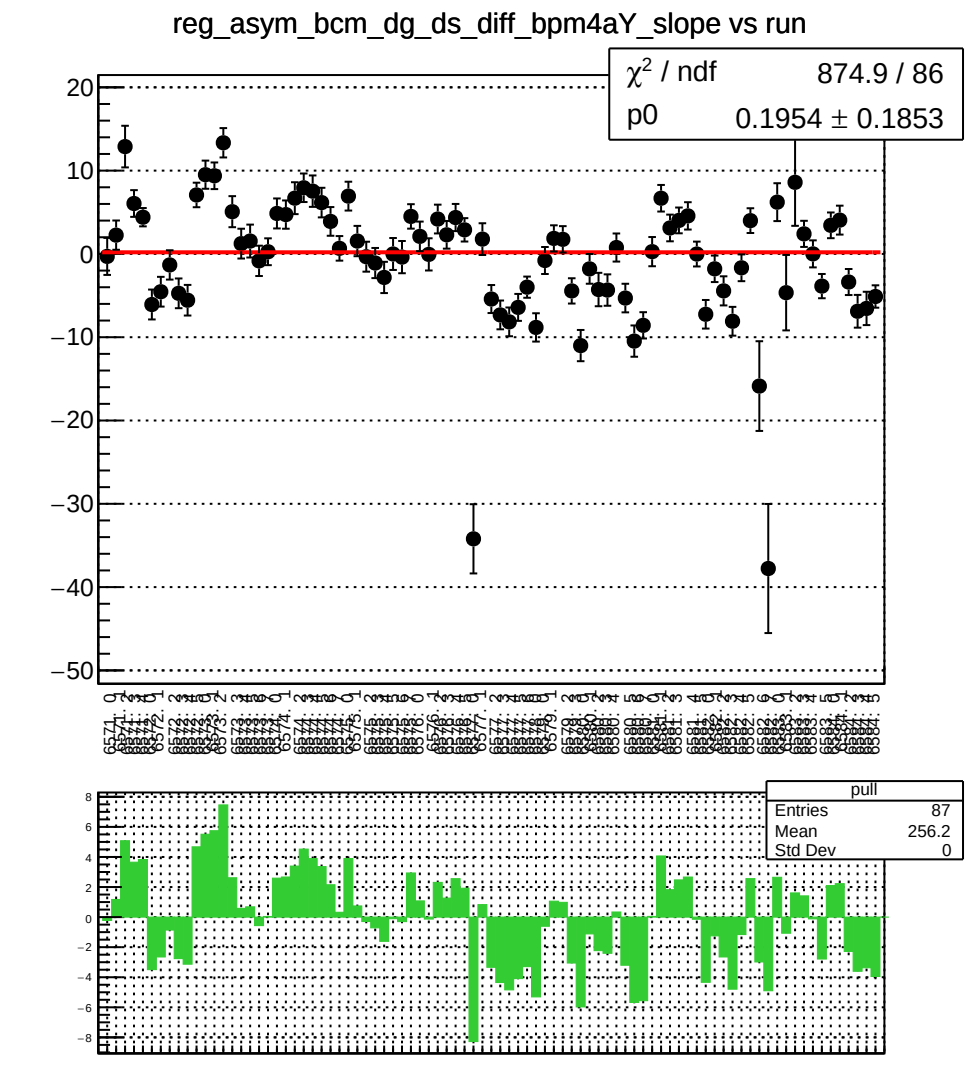

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 924.7 / 86
p0 −2.057 ± 0.2196
pull
Entries 87
Mean 1231
Std Dev 0

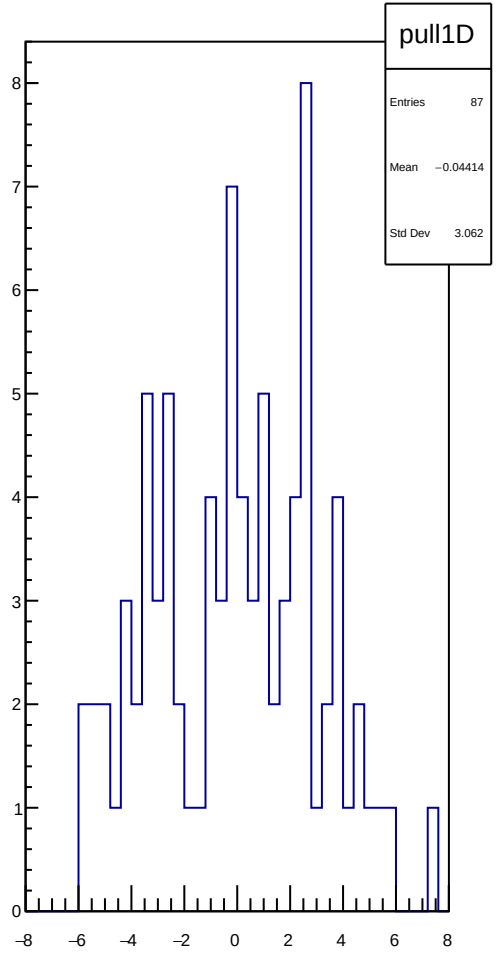

pull1D
Entries 87
Mean 0.02837
Std Dev 3.26

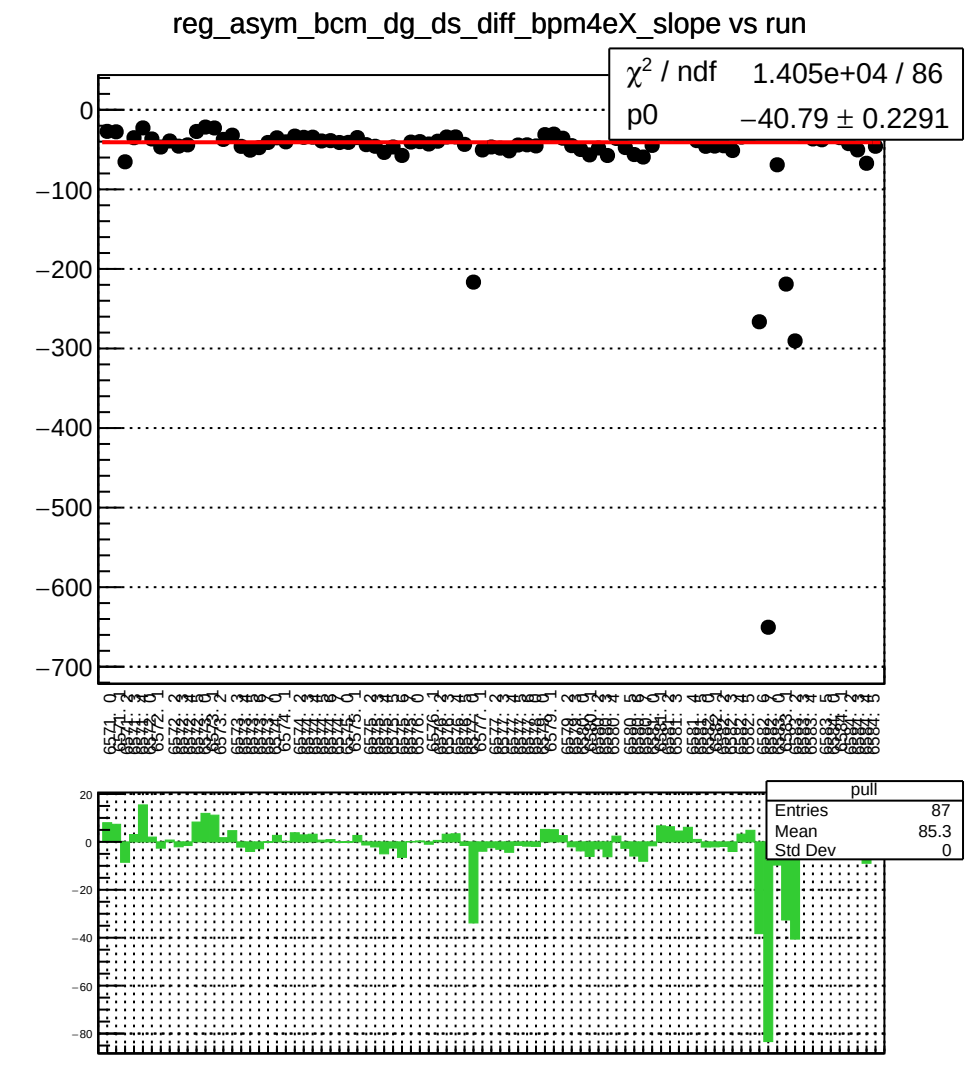

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 329.8 / 86
p0 −0.3628 ± 0.009865
pull
Entries 87
Mean 105.8
Std Dev 0

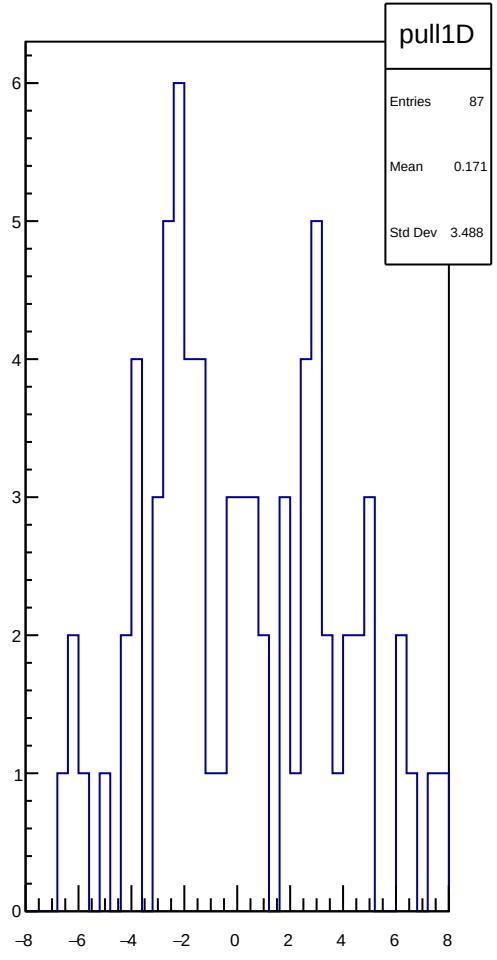

pull1D
Entries 87
Mean −0.2776
Std Dev 1.702

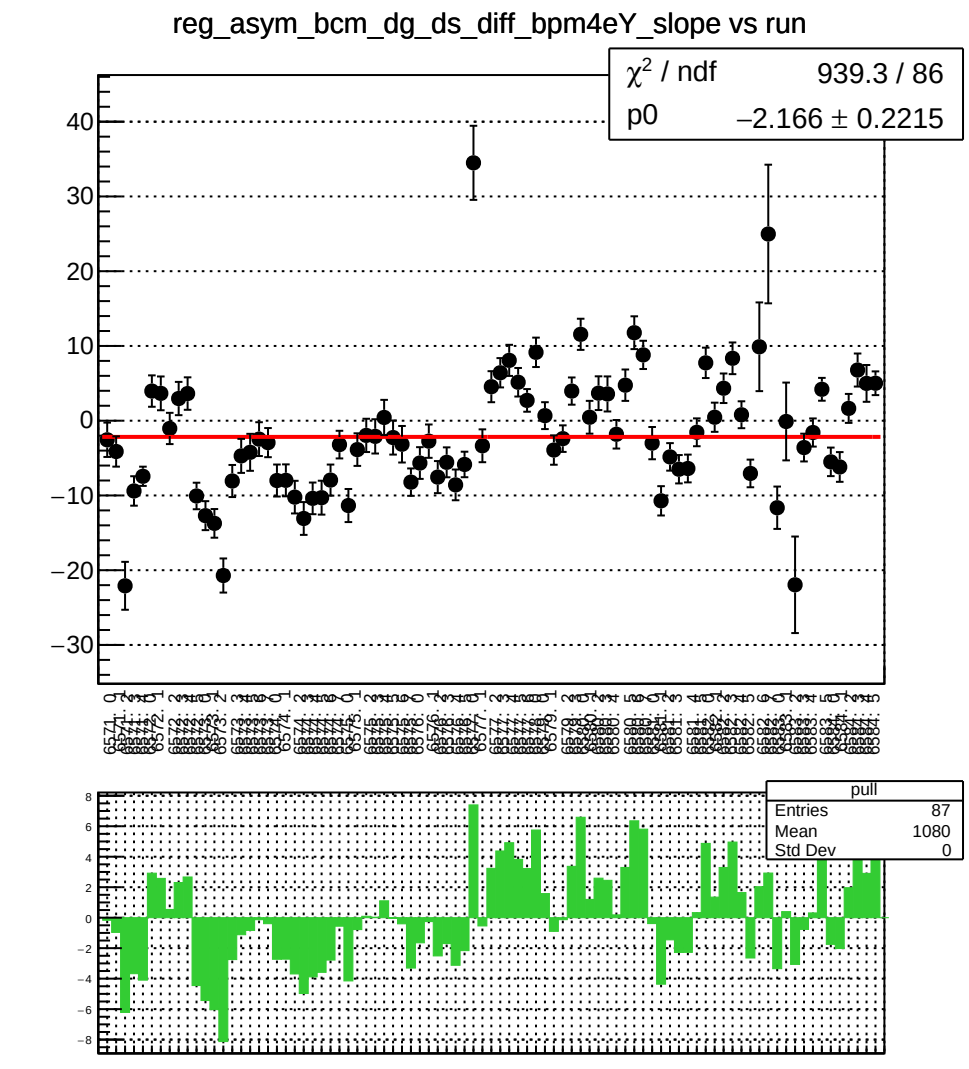

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 1.481e+04 / 86
p0 40.42 ± 0.2228
pull
Entries 87
Mean 86.58
Std Dev 0
pull1D
Entries 87
Mean −0.09015
Std Dev 3.362

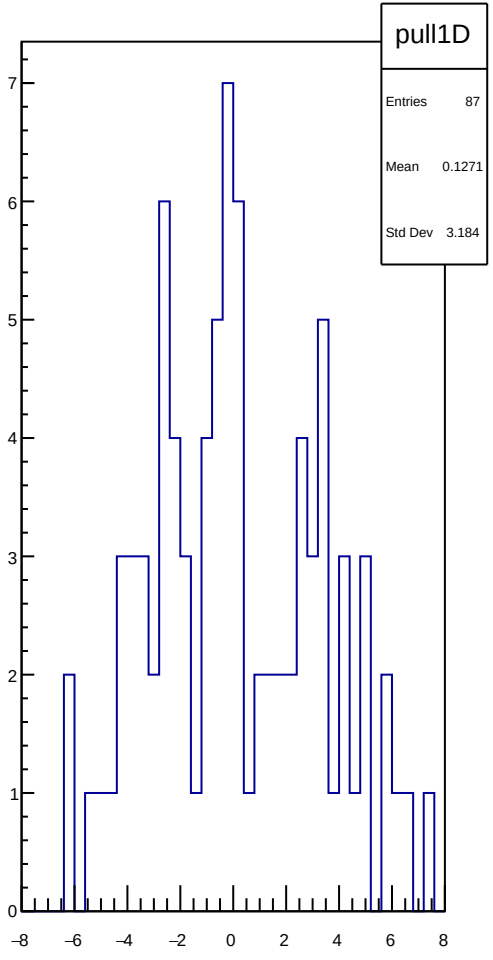

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 874.9 / 86
p0 0.1954 ± 0.1853
pull
Entries 87
Mean 256.2
Std Dev 0

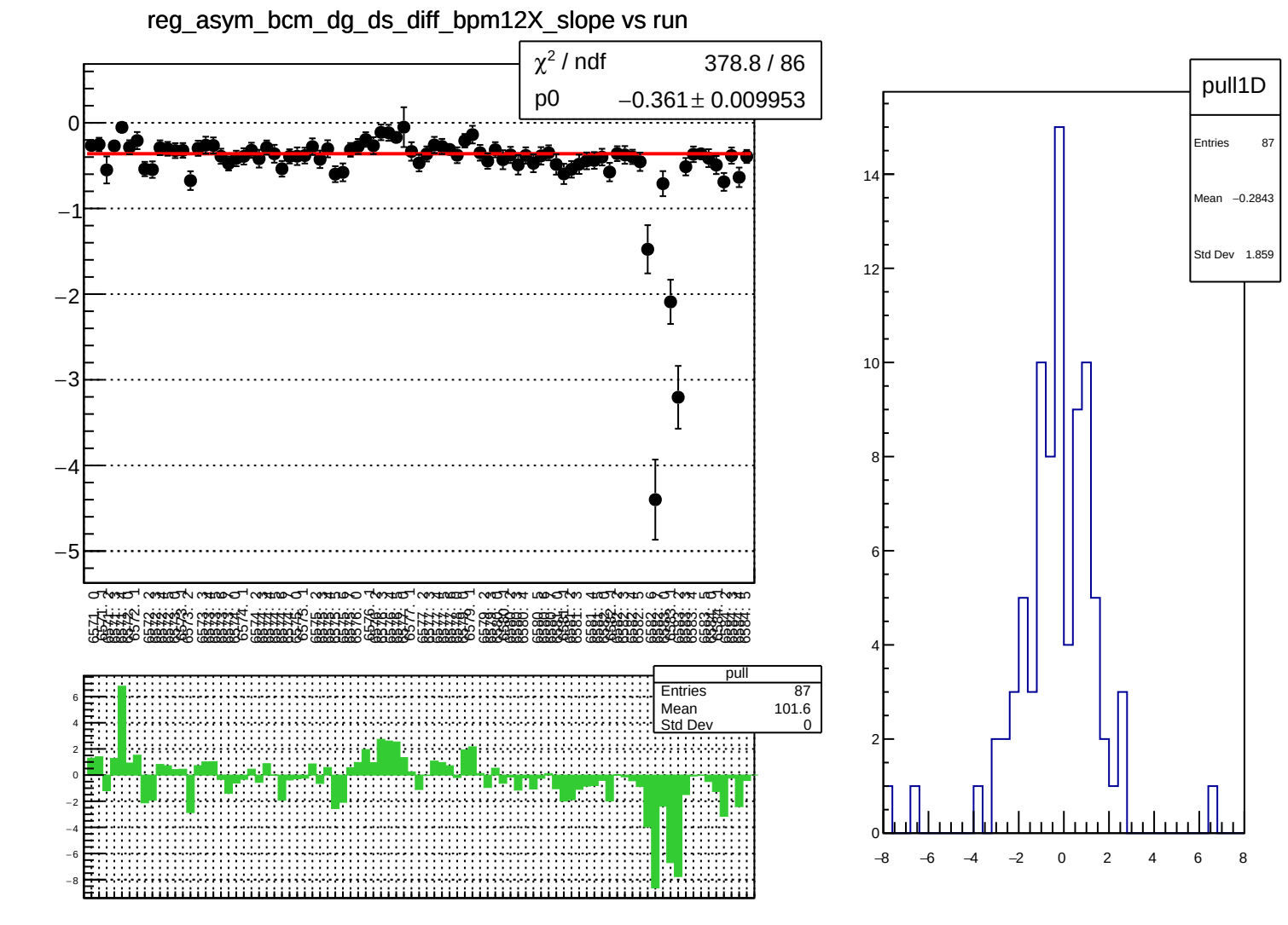

pull1D
Entries 87
Mean −0.04414
Std Dev 3.062

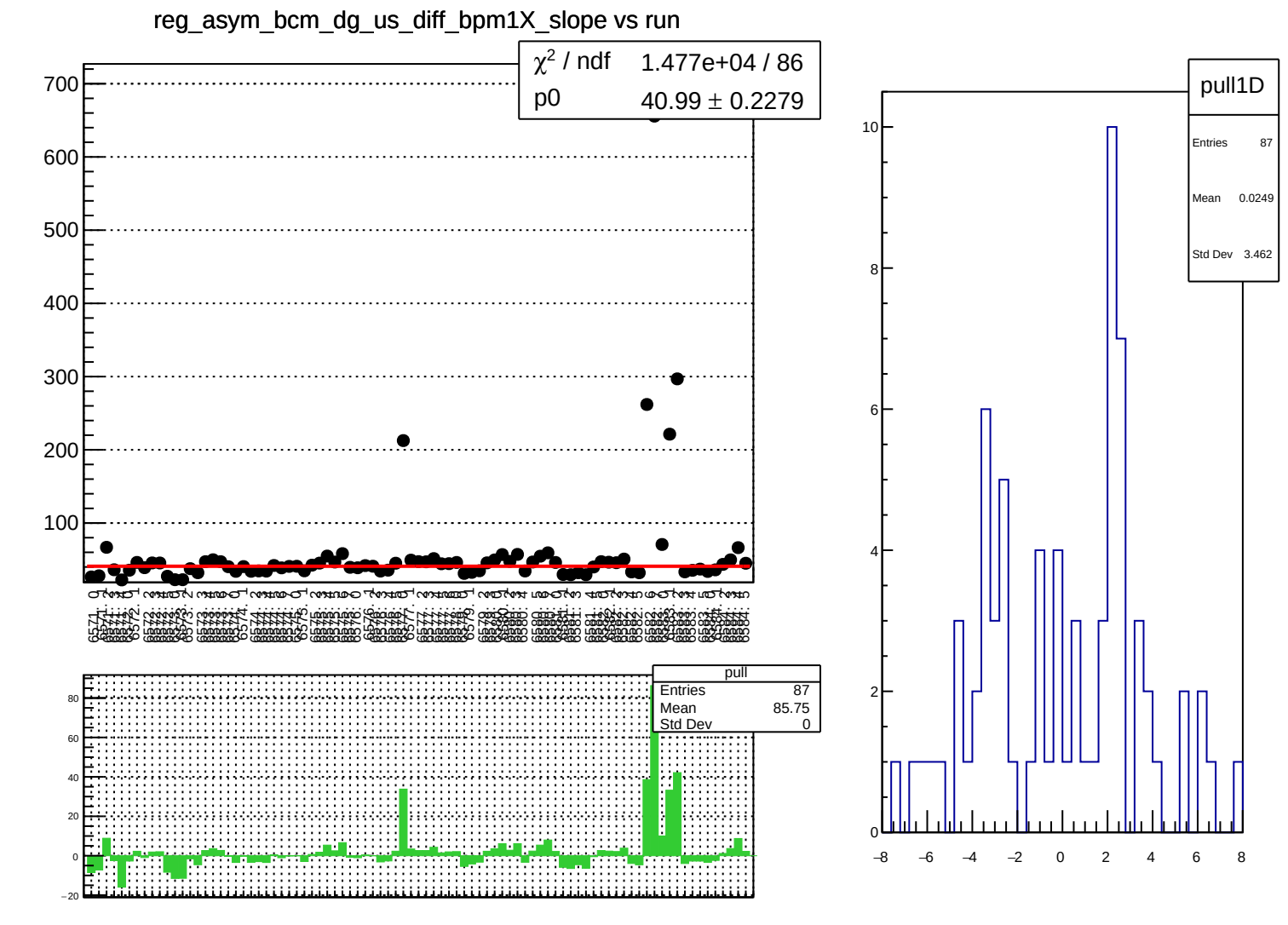

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 1.405e+04 / 86
p0 −40.79 ± 0.2291
pull
Entries 87
Mean 85.3
Std Dev 0

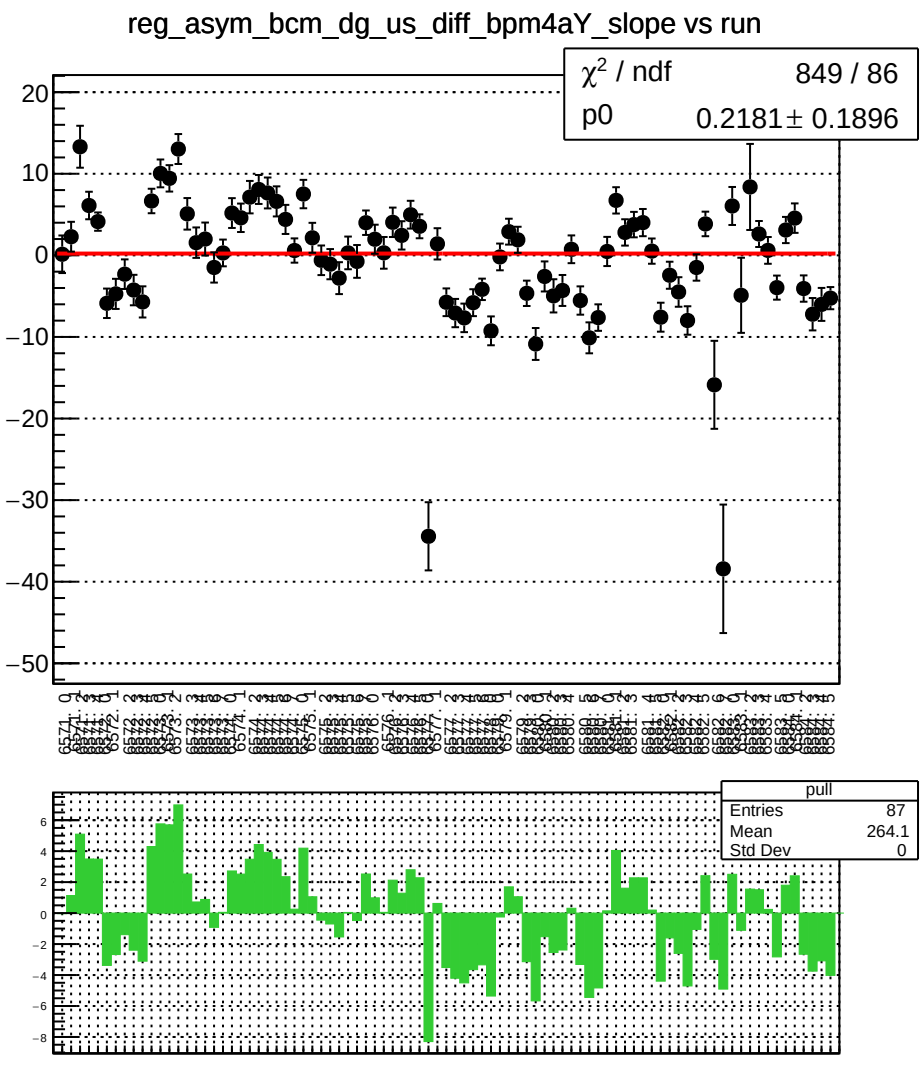

pull1D
Entries 87
Mean 0.171
Std Dev 3.488

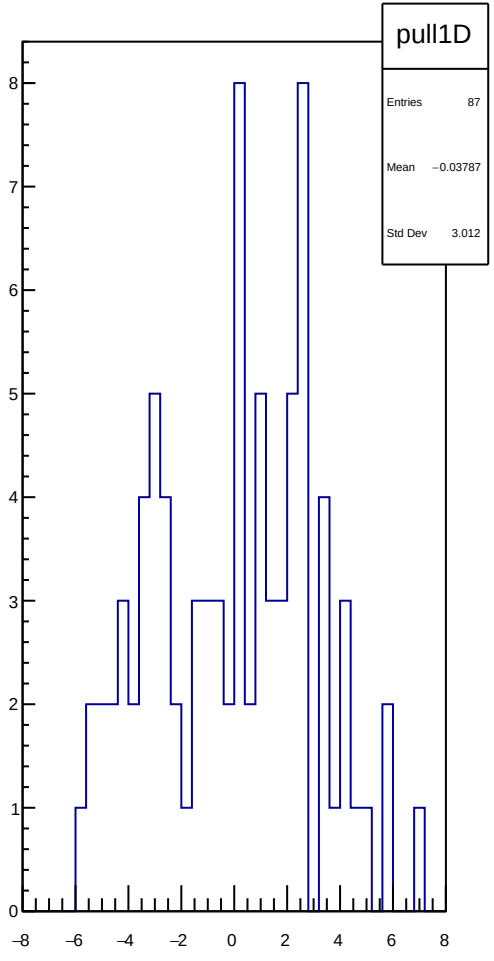

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 939.3 / 86
p0 −2.166 ± 0.2215
pull
Entries 87
Mean 1080
Std Dev 0

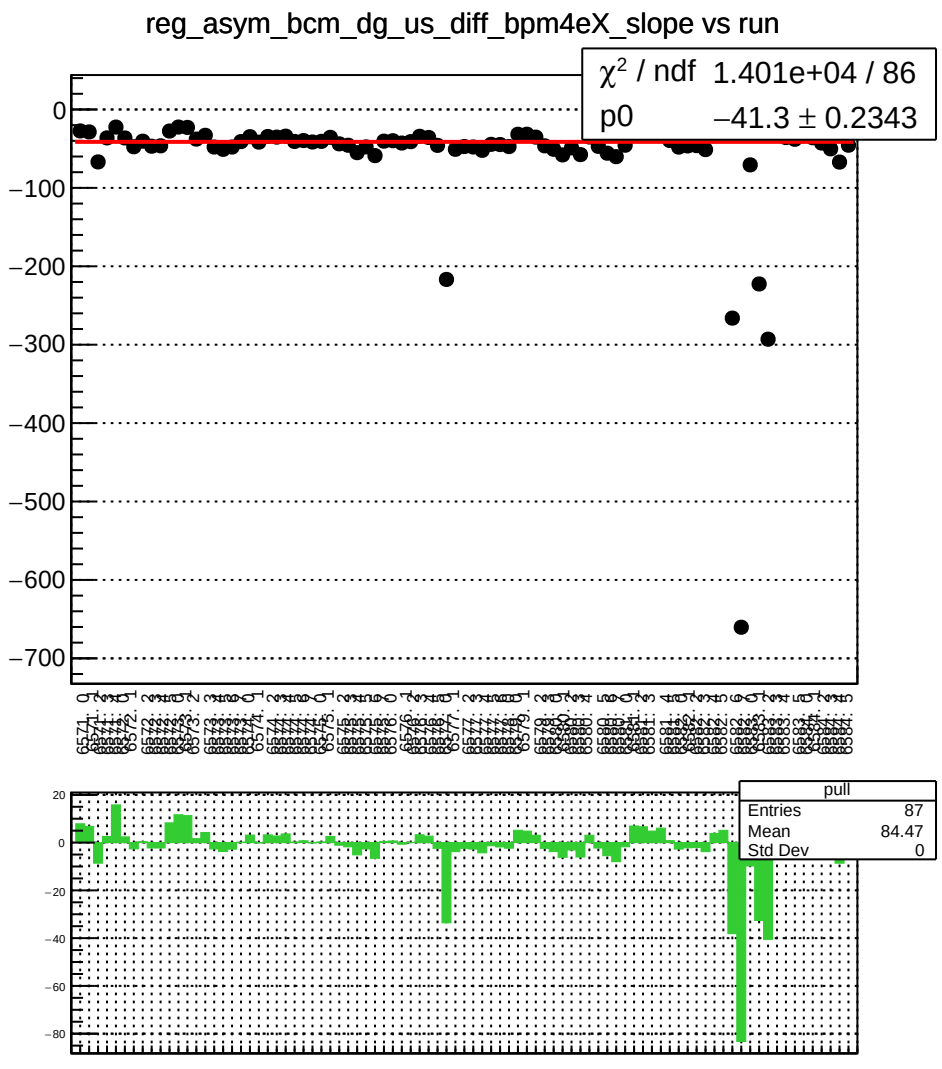

pull1D
Entries 87
Mean 0.1271
Std Dev 3.184

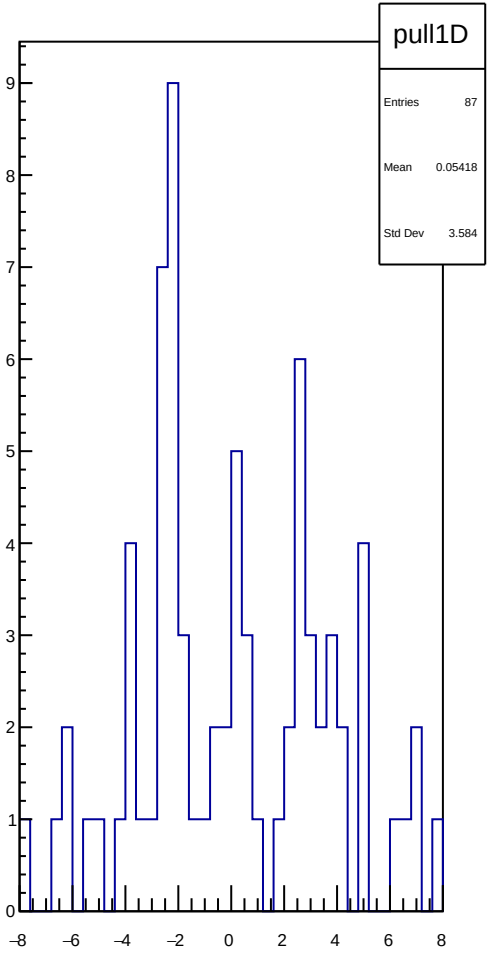

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 378.8 / 86
p0 −0.361 ± 0.009953
pull
Entries 87
Mean 101.6
Std Dev 0
pull1D
Entries 87
Mean −0.2843
Std Dev 1.859

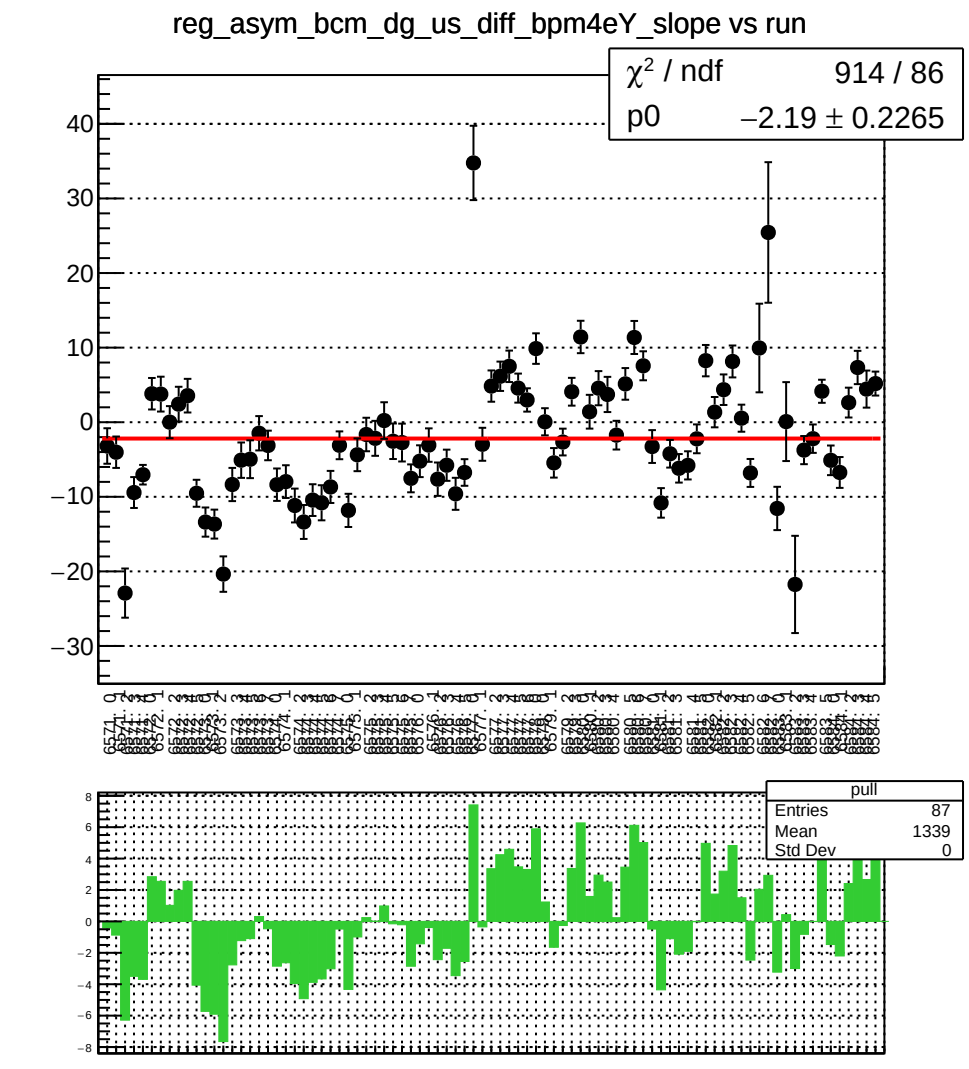

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 1.477e+04 / 86
p0 40.99 ± 0.2279
pull
Entries 87
Mean 85.75
Std Dev 0
pull1D
Entries 87
Mean 0.0249
Std Dev 3.462

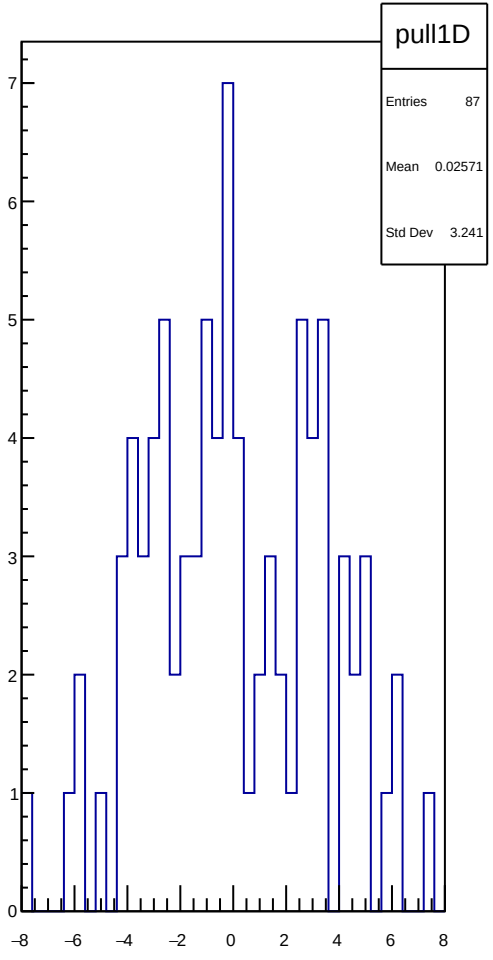

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 849 / 86
p0 0.2181 ± 0.1896
pull
Entries 87
Mean 264.1
Std Dev 0

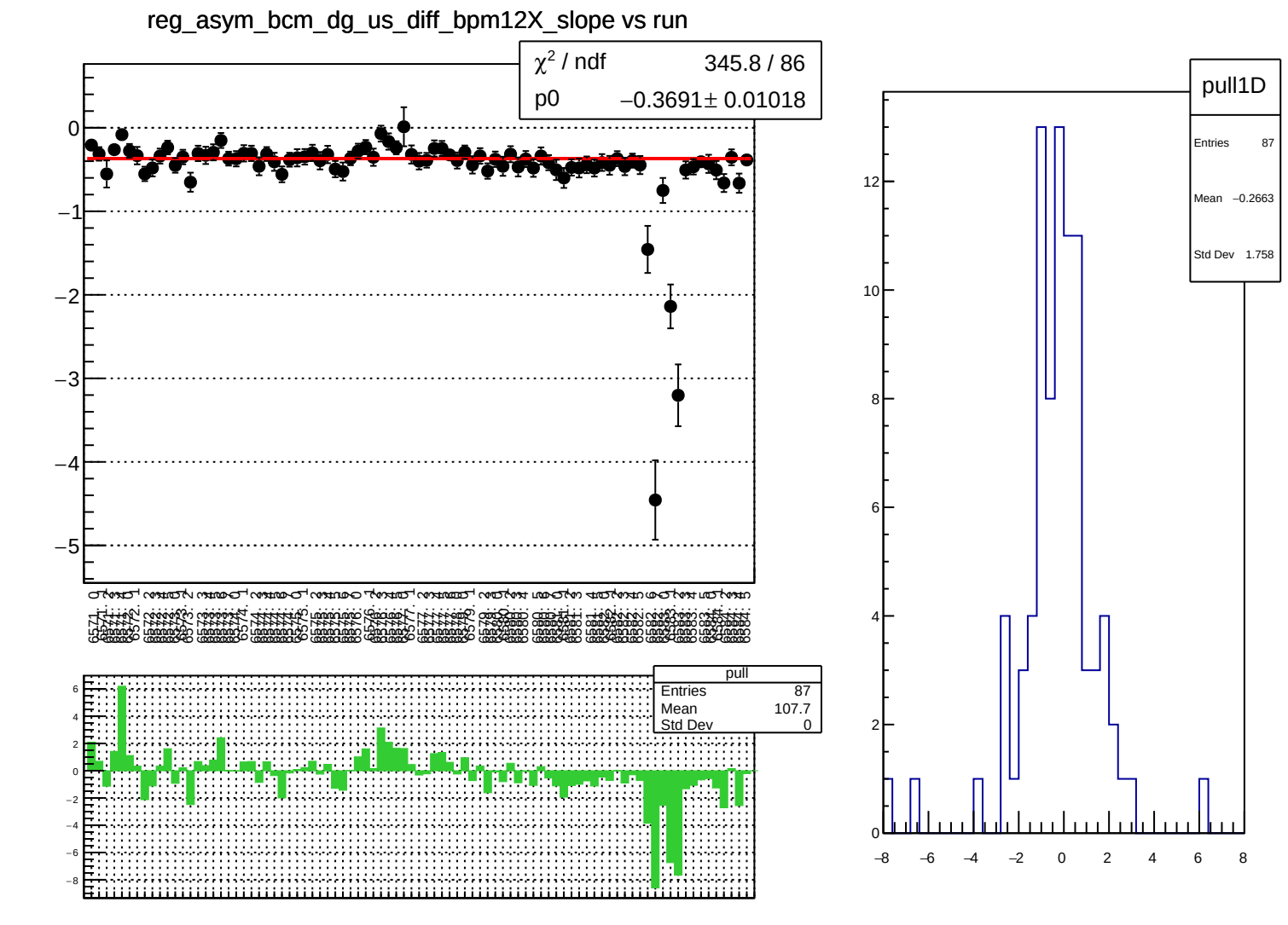

pull1D
Entries 87
Mean −0.03787
Std Dev 3.012

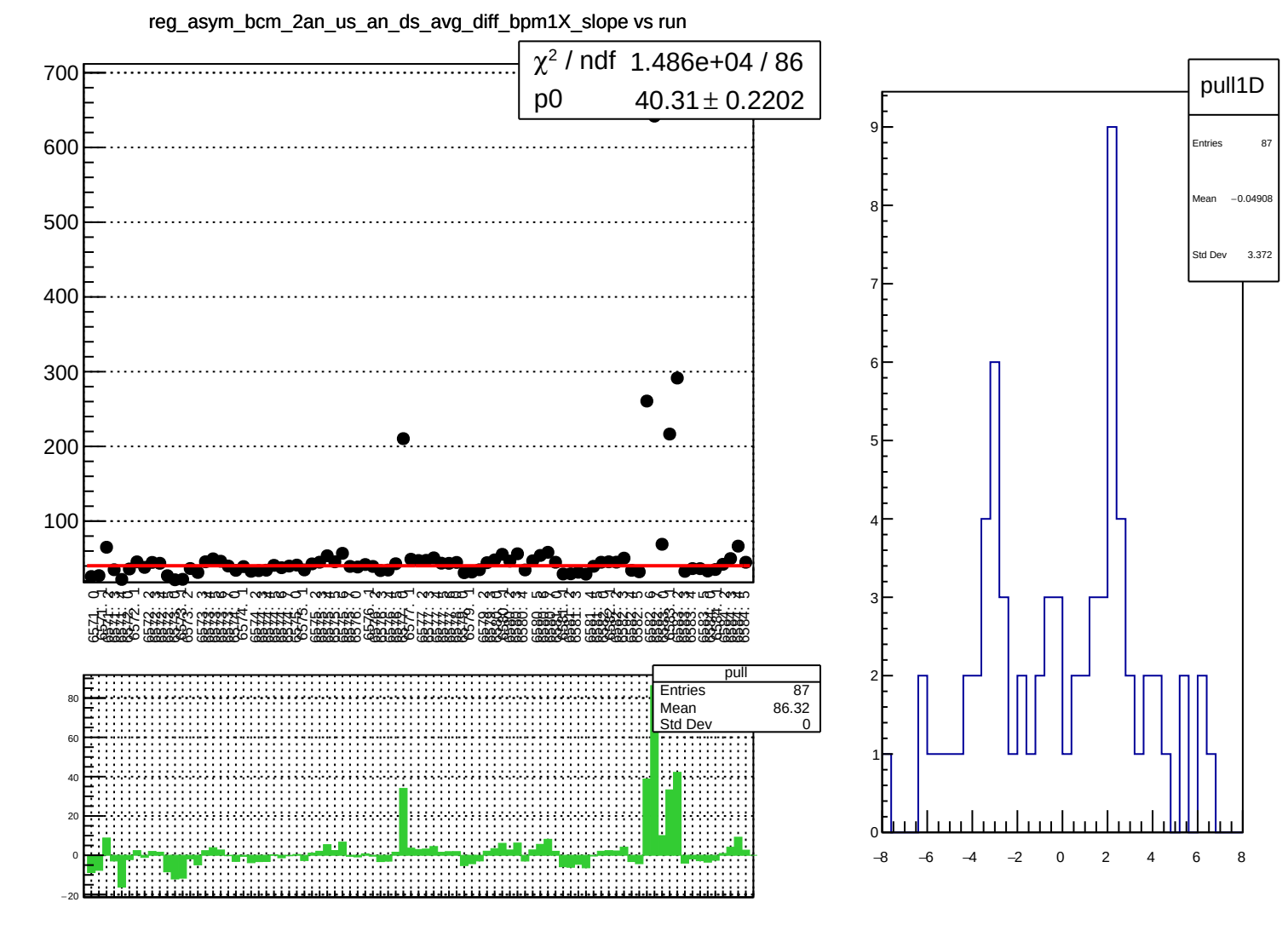

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 1.401e+04 / 86
p0 −41.3 ± 0.2343
pull
Entries 87
Mean 84.47
Std Dev 0

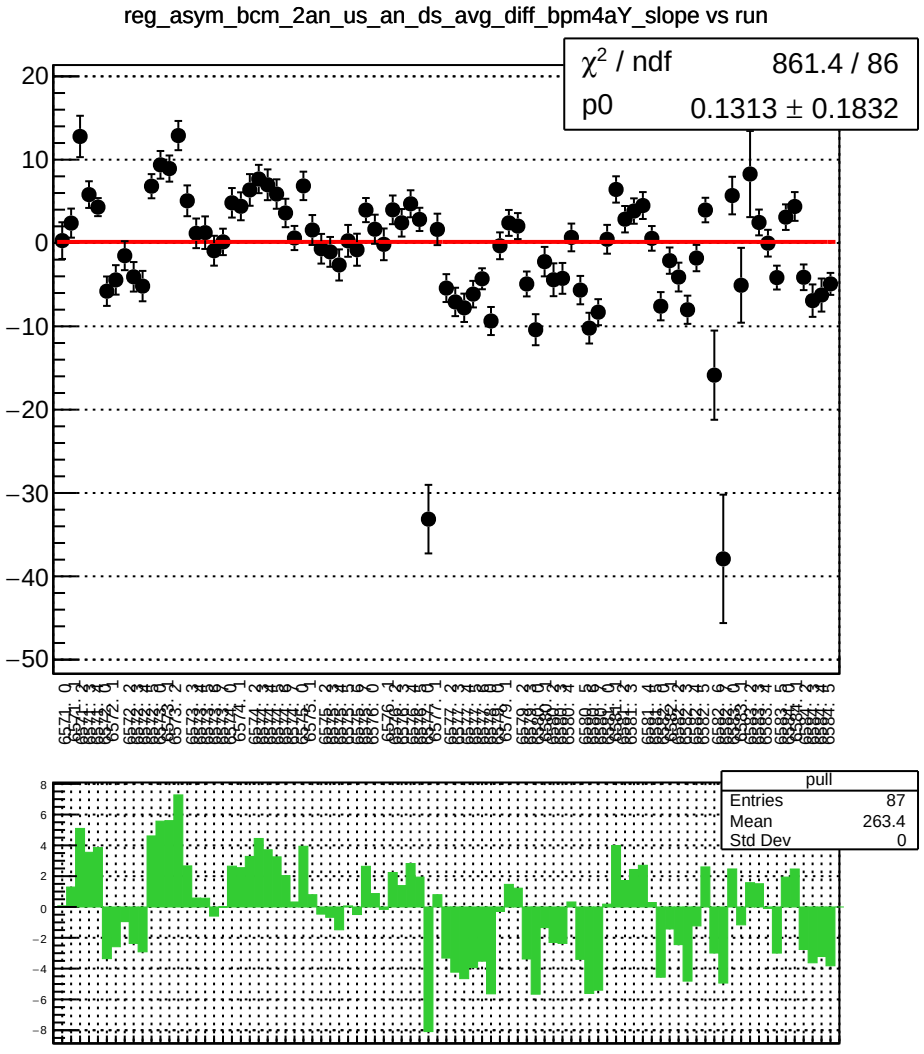

pull1D
Entries 87
Mean 0.05418
Std Dev 3.584

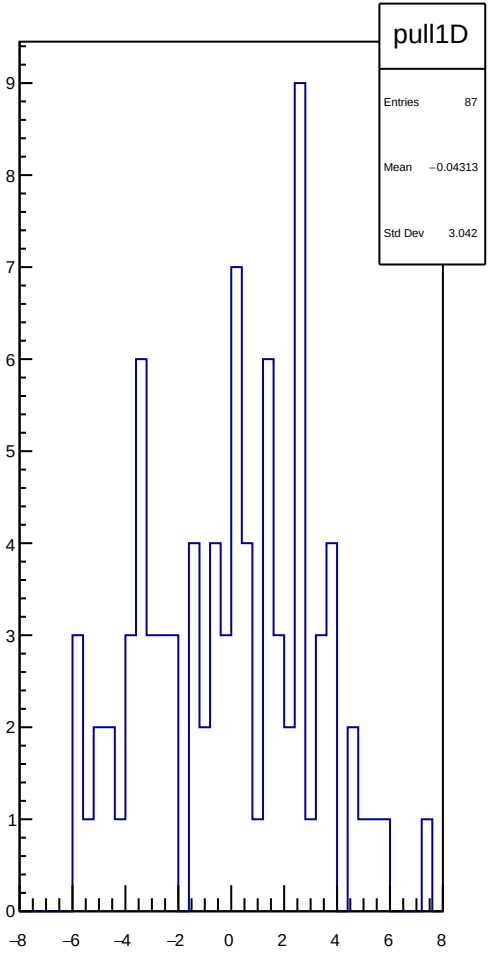

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 914 / 86
p0 −2.19 ± 0.2265
pull
Entries 87
Mean 1339
Std Dev 0

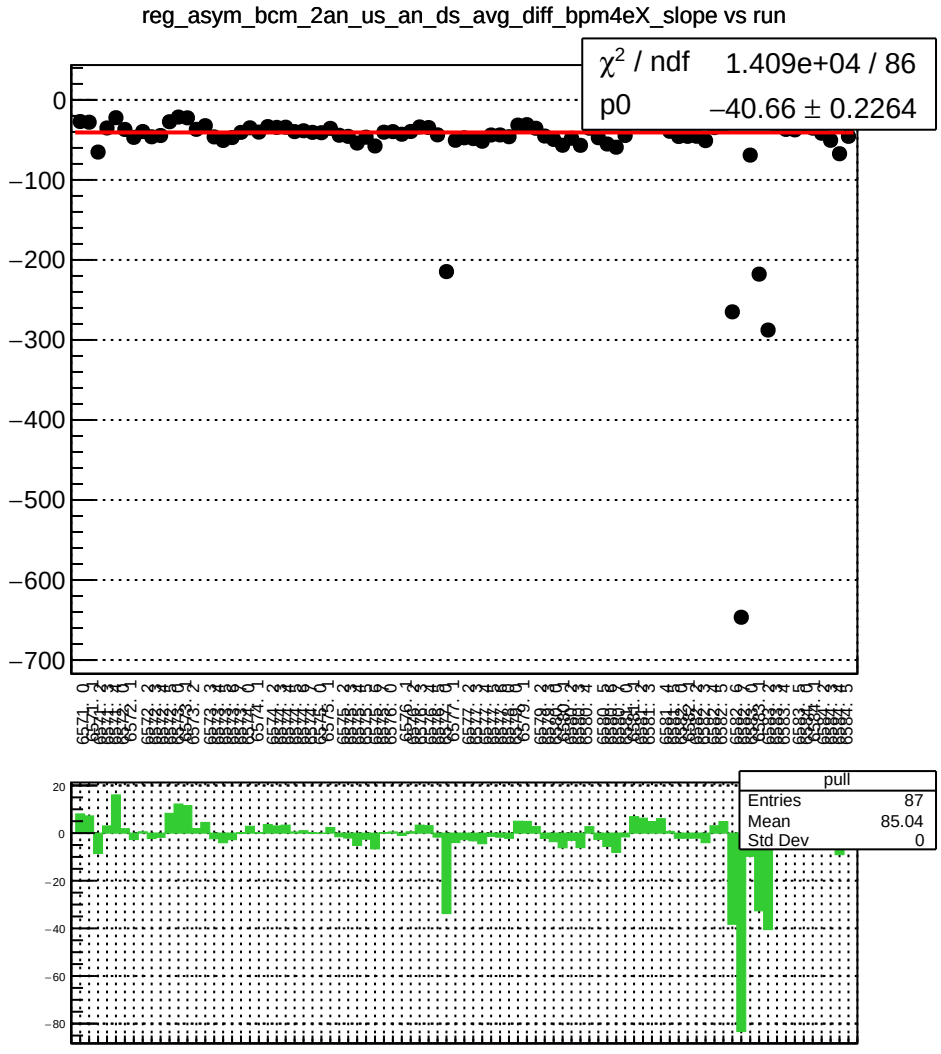

pull1D
Entries 87
Mean 0.02571
Std Dev 3.241

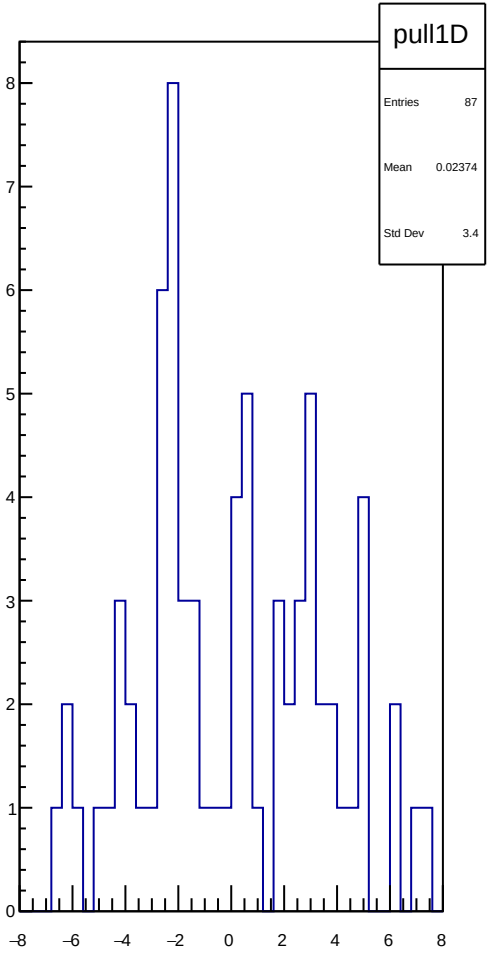

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 345.8 / 86
p0 −0.3691± 0.01018
pull
Entries 87
Mean 107.7
Std Dev 0
pull1D
Entries 87
Mean −0.2663
Std Dev 1.758

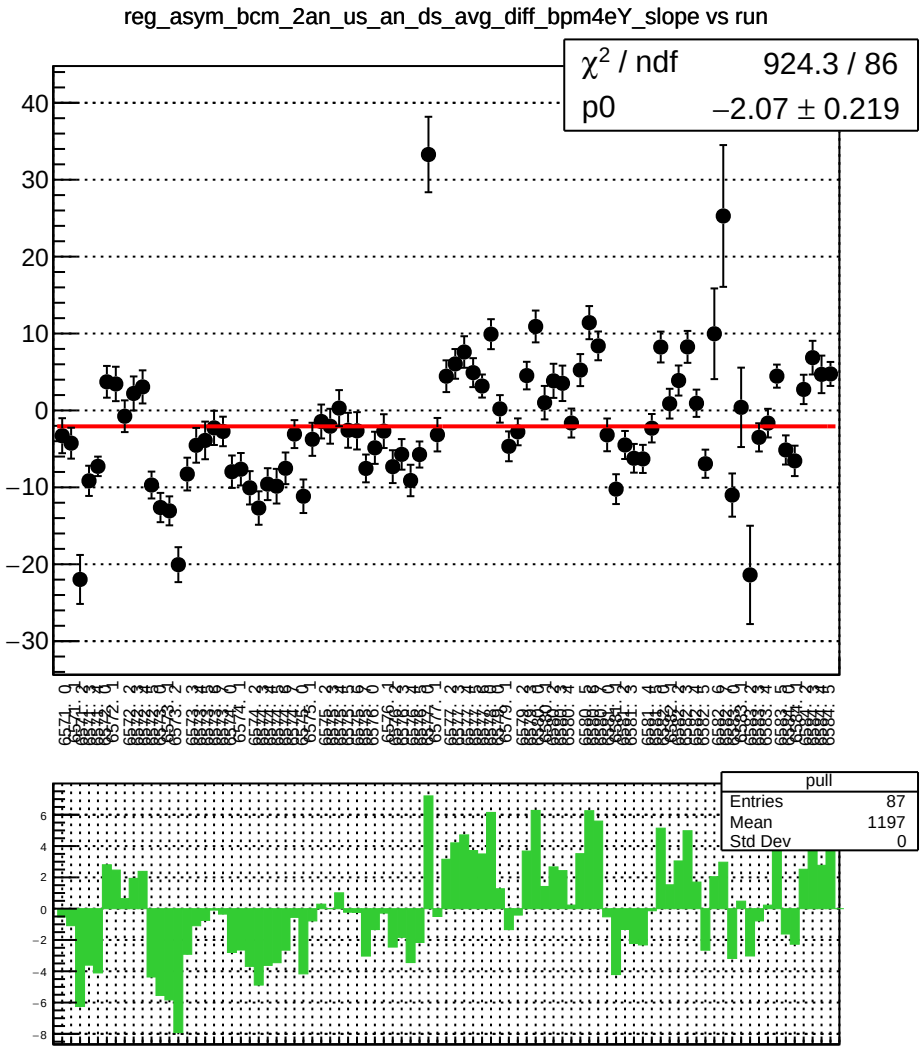

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 1.486e+04 / 86
p0 40.31 ± 0.2202
pull
Entries 87
Mean 86.32
Std Dev 0
pull1D
Entries 87
Mean −0.04908
Std Dev 3.372

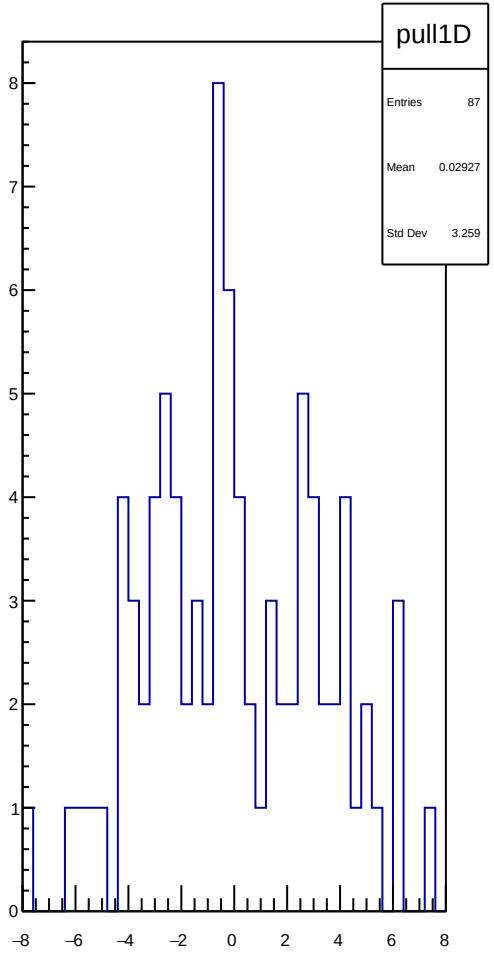

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 861.4 / 86
p0 0.1313 ± 0.1832
pull
Entries 87
Mean 263.4
Std Dev 0

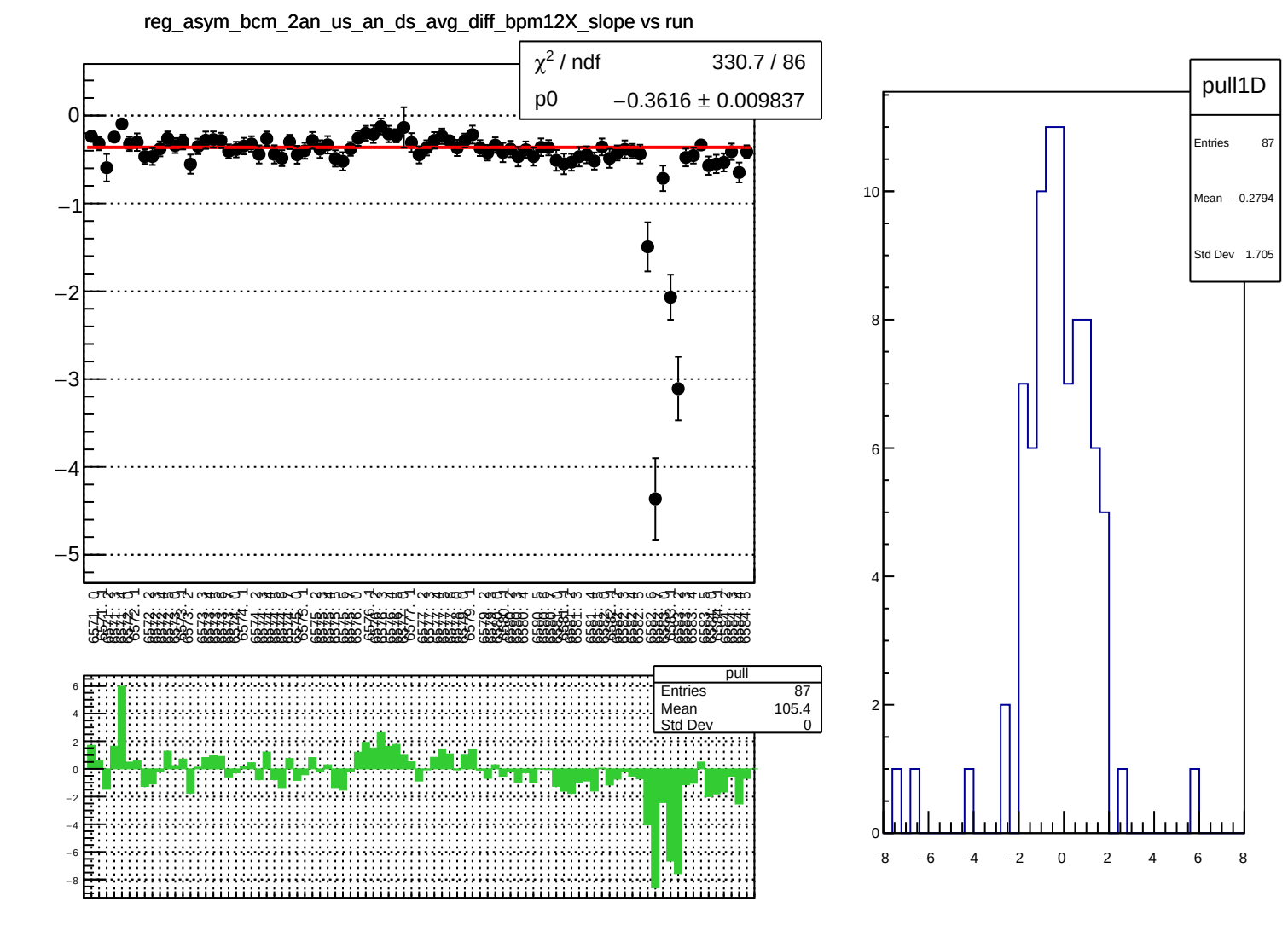

pull1D
Entries 87
Mean −0.04313
Std Dev 3.042

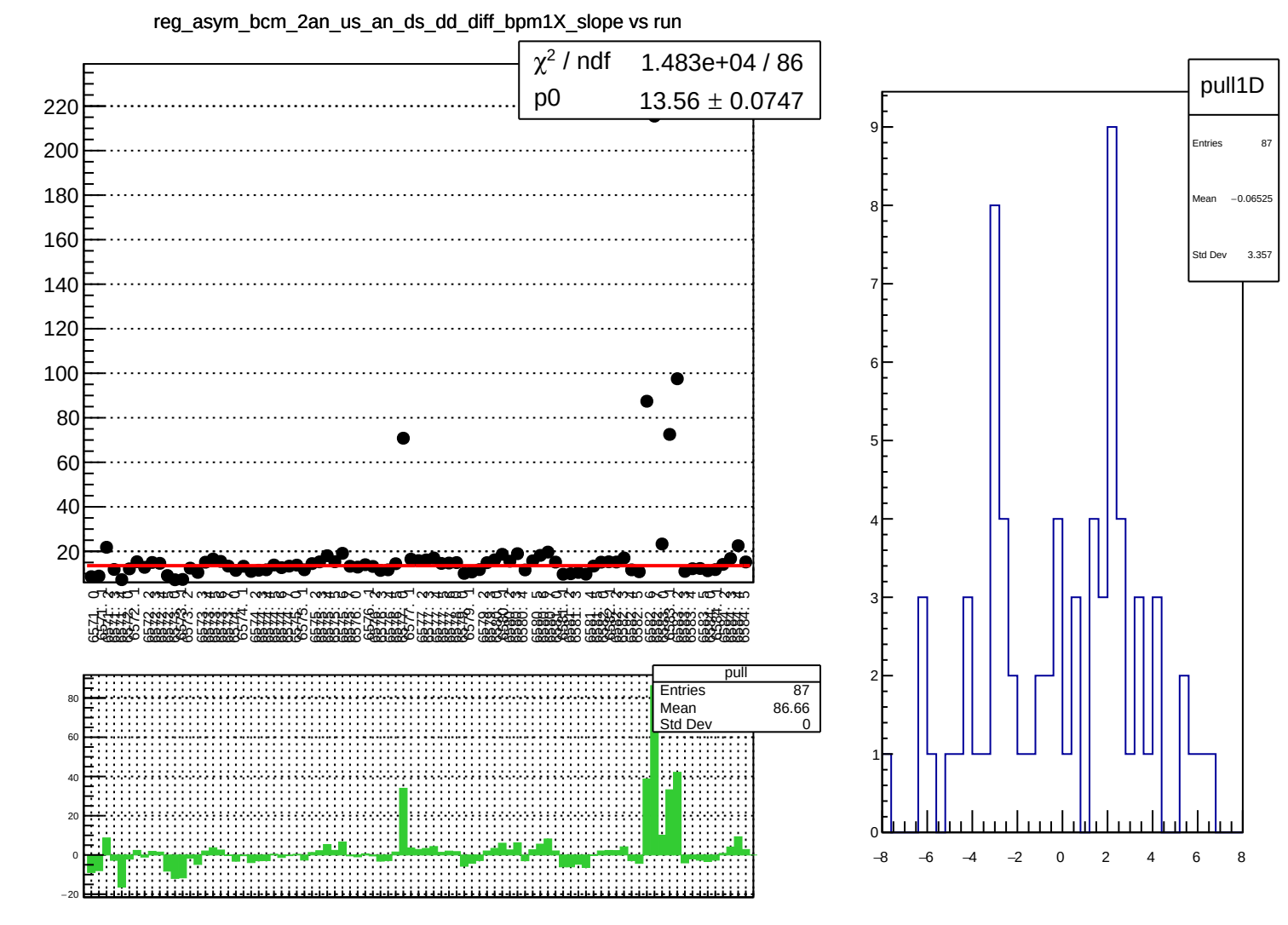

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.409e+04 / 86
p0 −40.66 ± 0.2264
pull
Entries 87
Mean 85.04
Std Dev 0

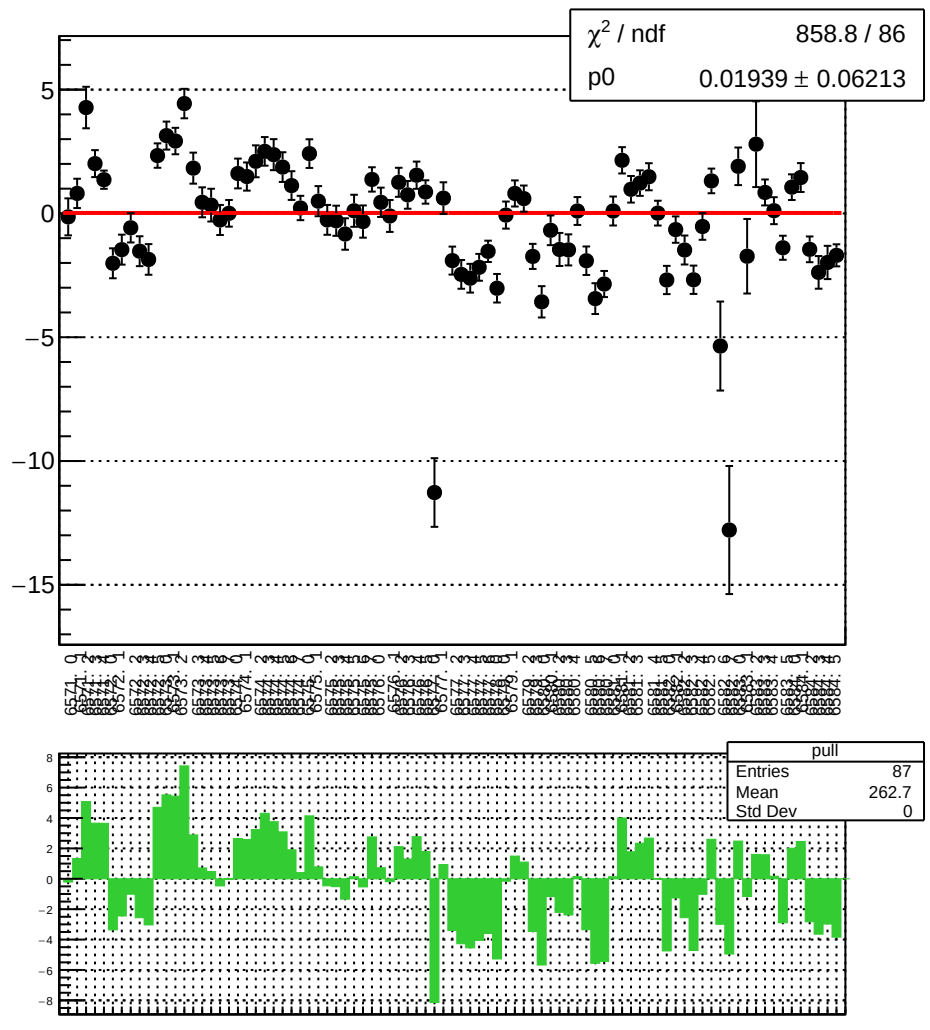

pull1D
Entries 87
Mean 0.02374
Std Dev 3.4

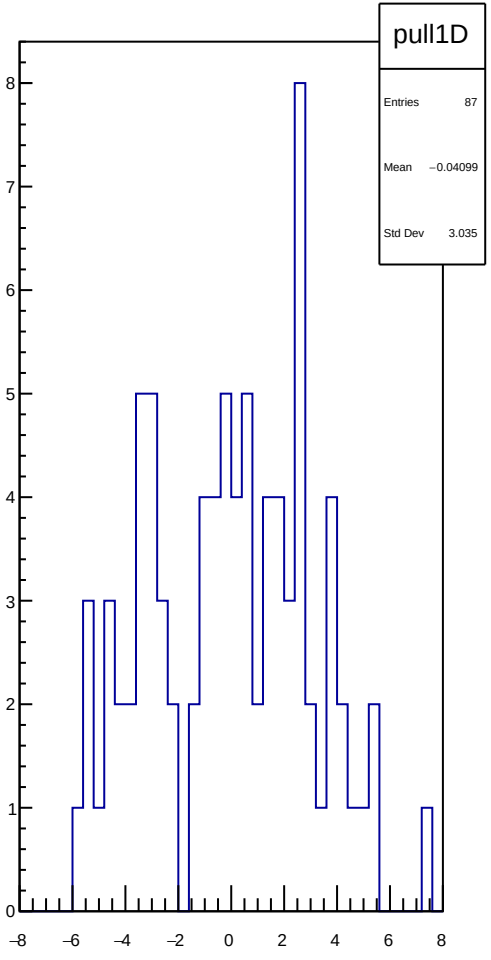

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 924.3 / 86
p0 −2.07 ± 0.219
pull
Entries 87
Mean 1197
Std Dev 0

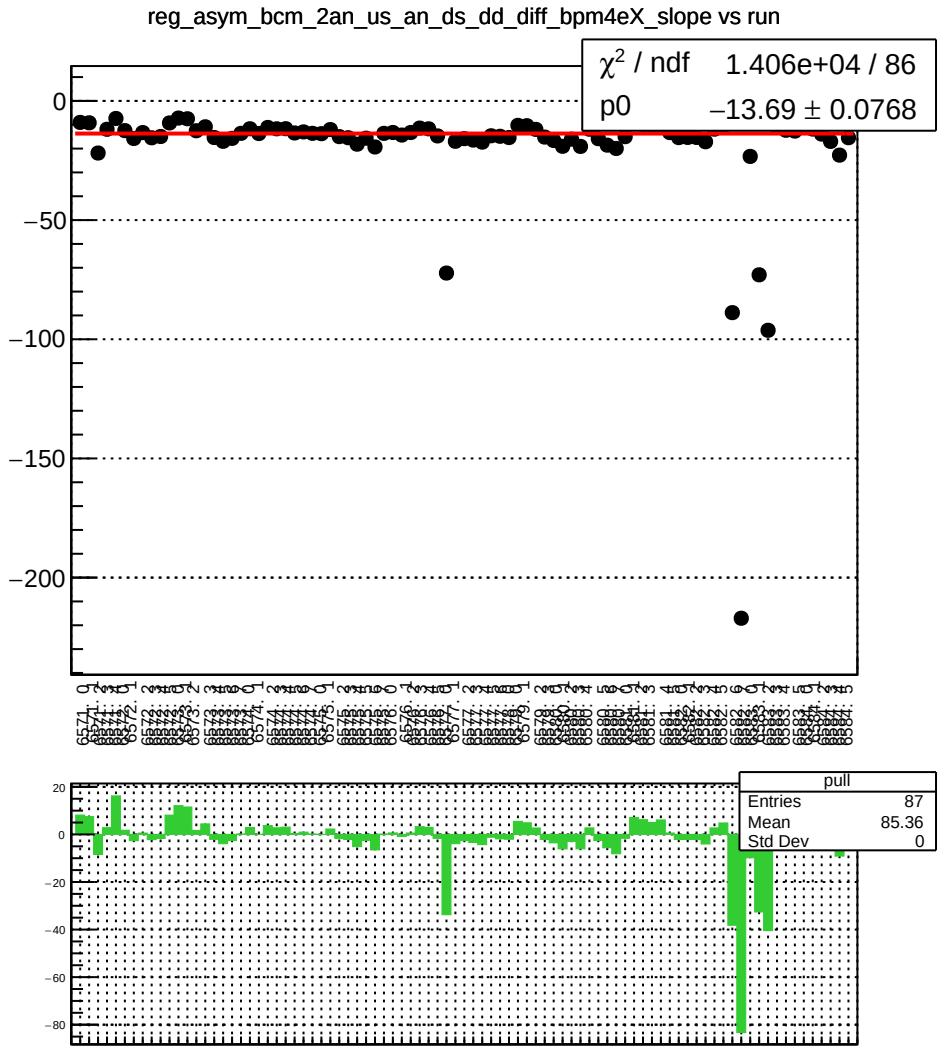

pull1D
Entries 87
Mean 0.02927
Std Dev 3.259

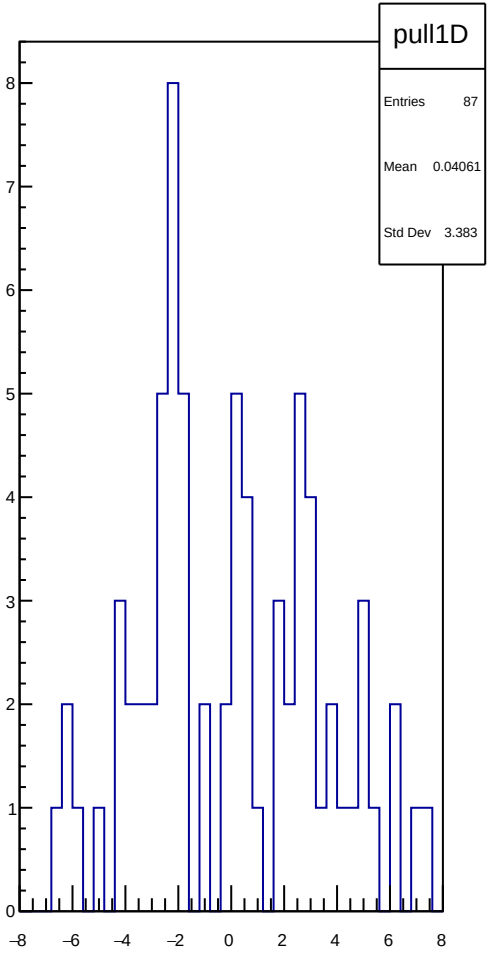

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 330.7 / 86
p0 −0.3616 ± 0.009837
pull
Entries 87
Mean 105.4
Std Dev 0
pull1D
Entries 87
Mean −0.2794
Std Dev 1.705

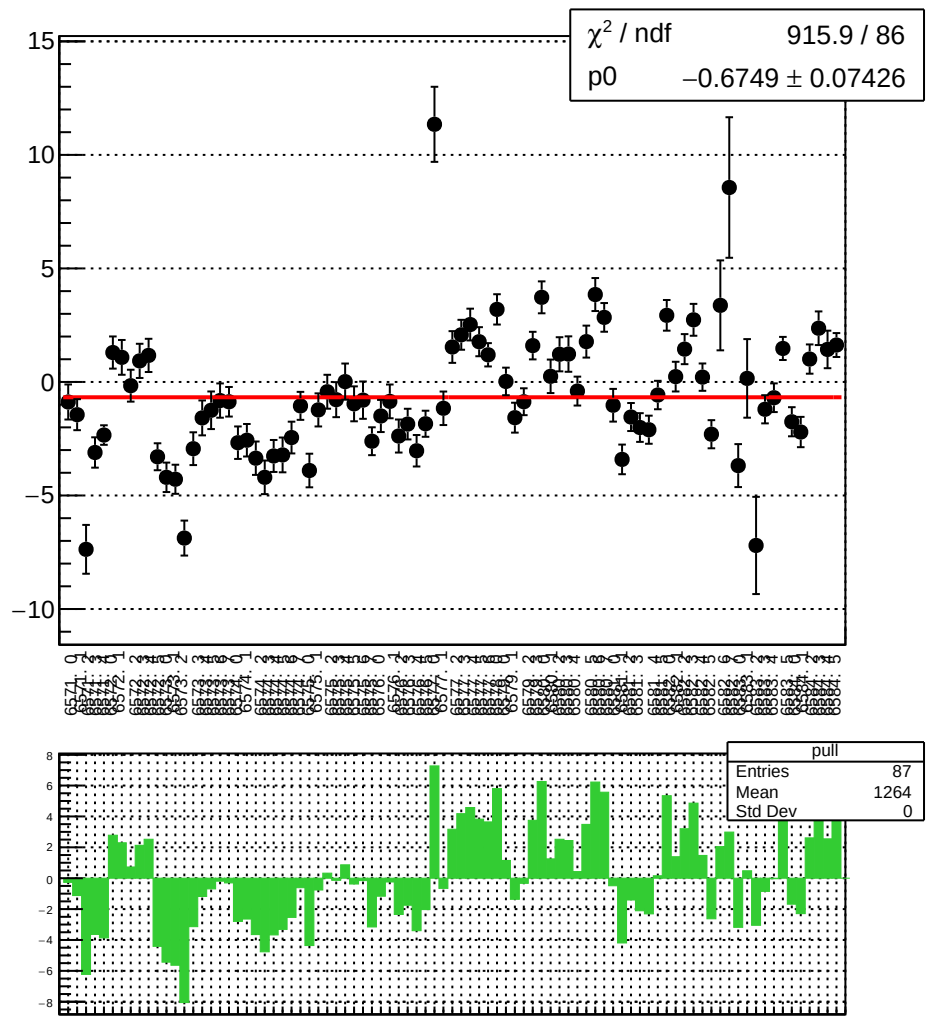

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 1.483e+04 / 86
p0 13.56 ± 0.0747
pull
Entries 87
Mean 86.66
Std Dev 0
pull1D
Entries 87
Mean −0.06525
Std Dev 3.357

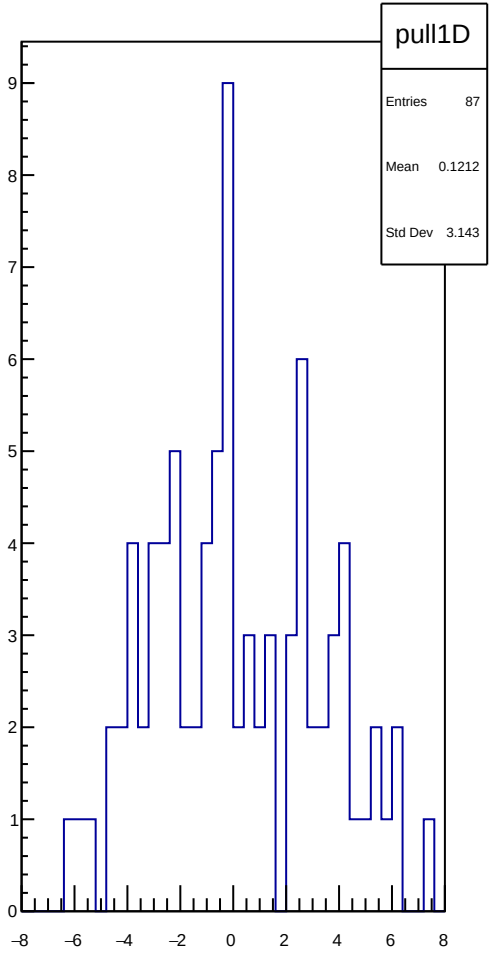

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 858.8 / 86
p0 0.01939 ± 0.06213
pull
Entries 87
Mean 262.7
Std Dev 0

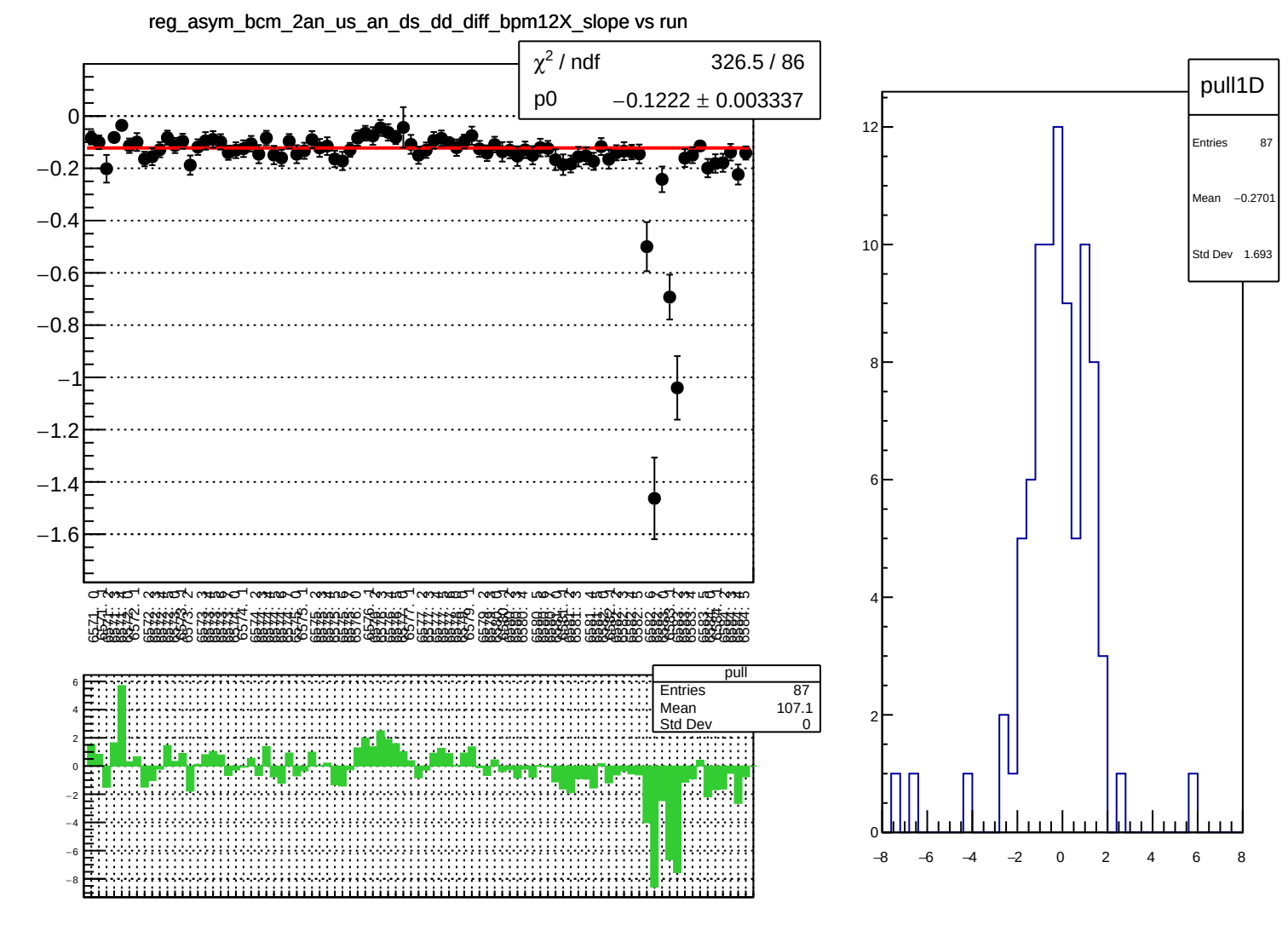

pull1D
Entries 87
Mean −0.04099
Std Dev 3.035

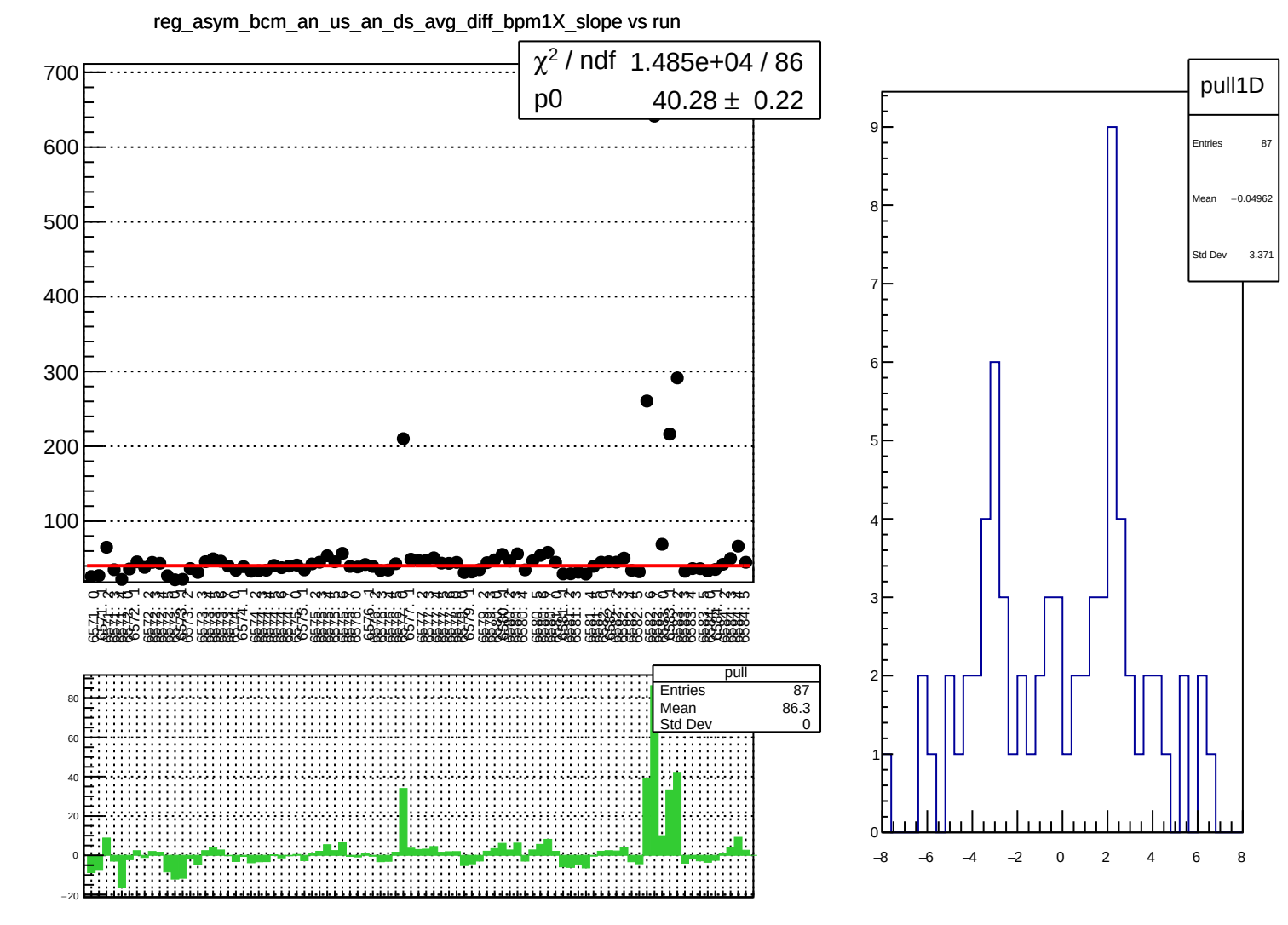

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.406e+04 / 86
p0 −13.69 ± 0.0768
pull
Entries 87
Mean 85.36
Std Dev 0

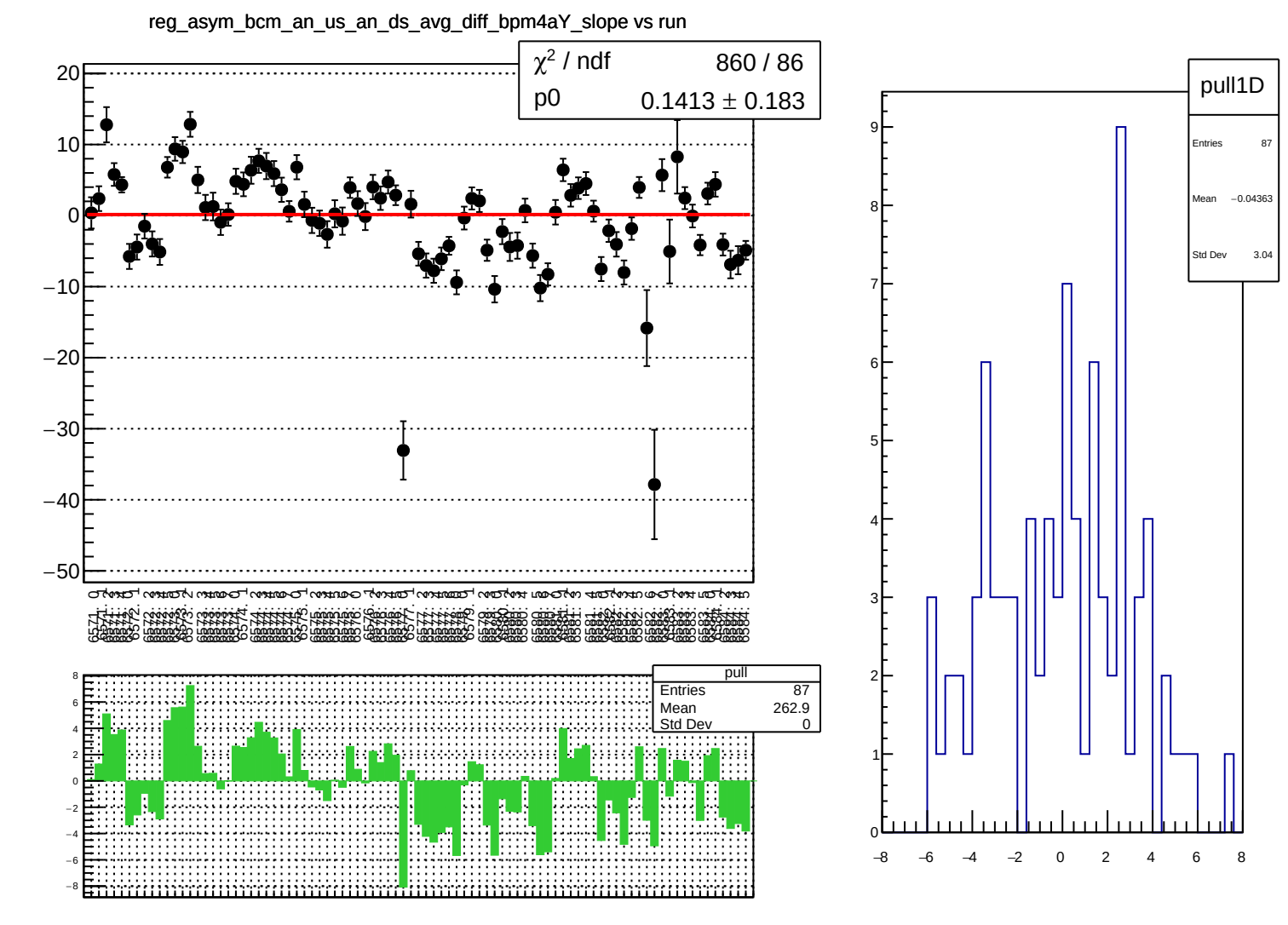

pull1D
Entries 87
Mean 0.04061
Std Dev 3.383

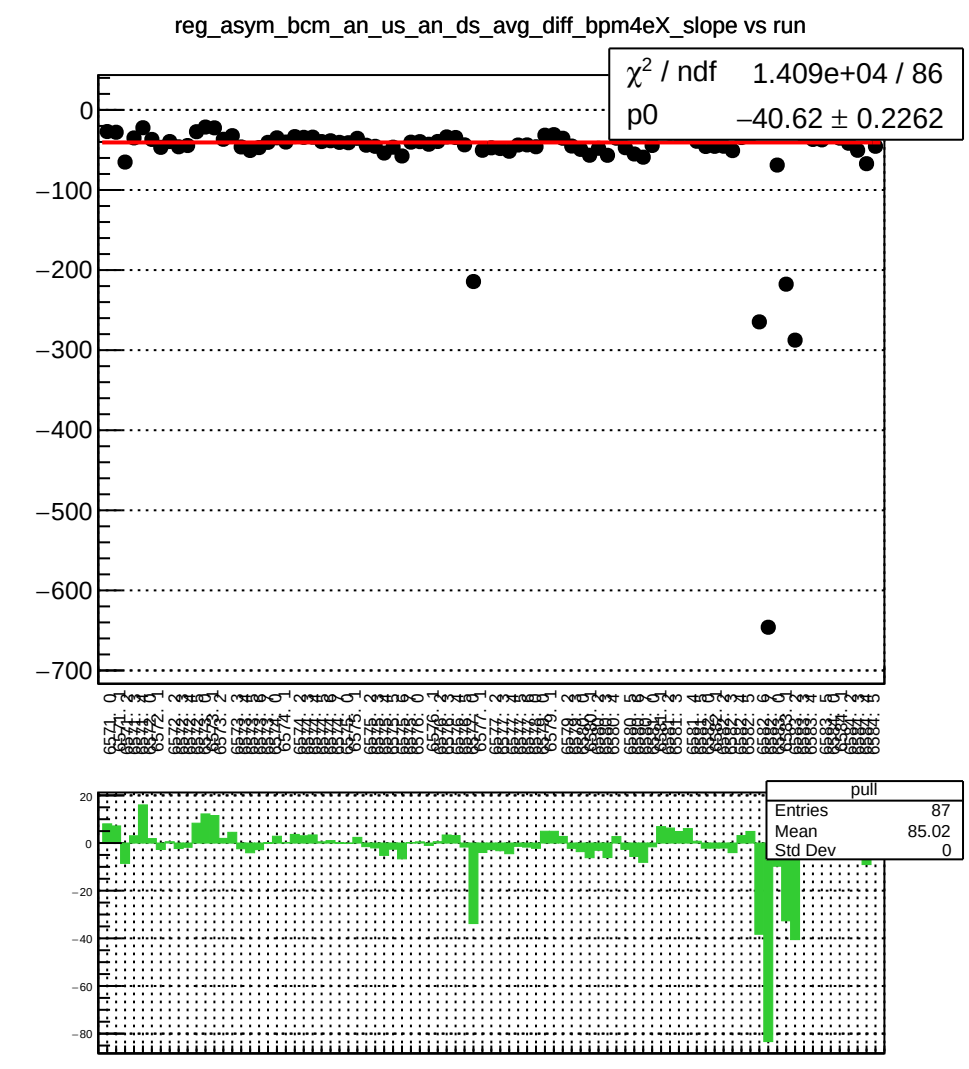

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 915.9 / 86
p0 −0.6749 ± 0.07426
pull
Entries 87
Mean 1264
Std Dev 0

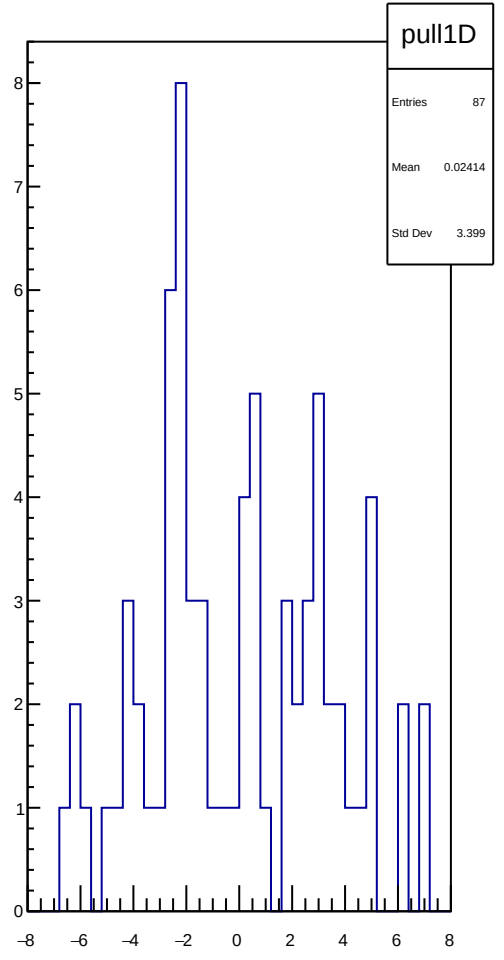

pull1D
Entries 87
Mean 0.1212
Std Dev 3.143

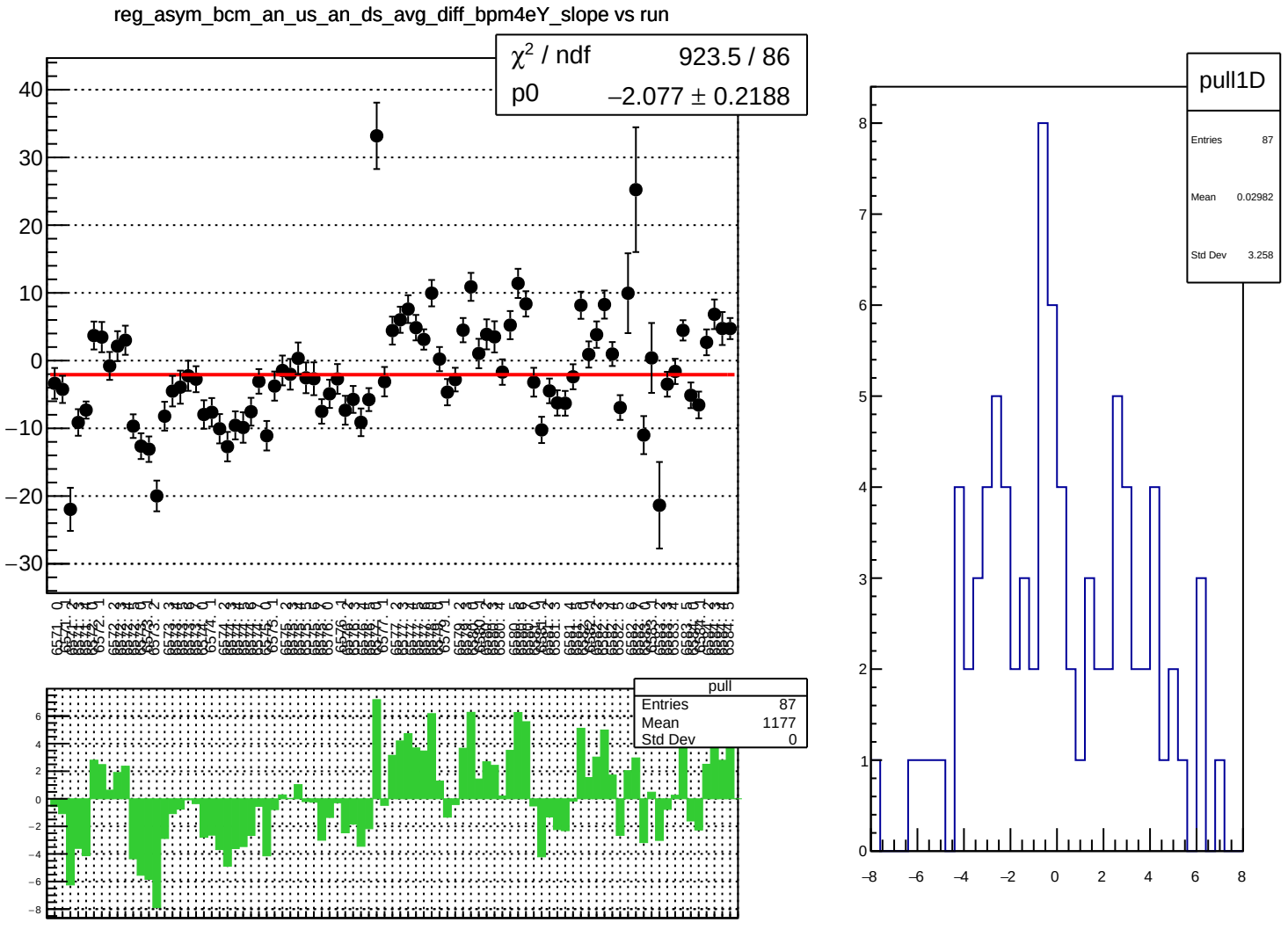

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 326.5 / 86
p0 −0.1222 ± 0.003337
pull
Entries 87
Mean 107.1
Std Dev 0
pull1D
Entries 87
Mean −0.2701
Std Dev 1.693

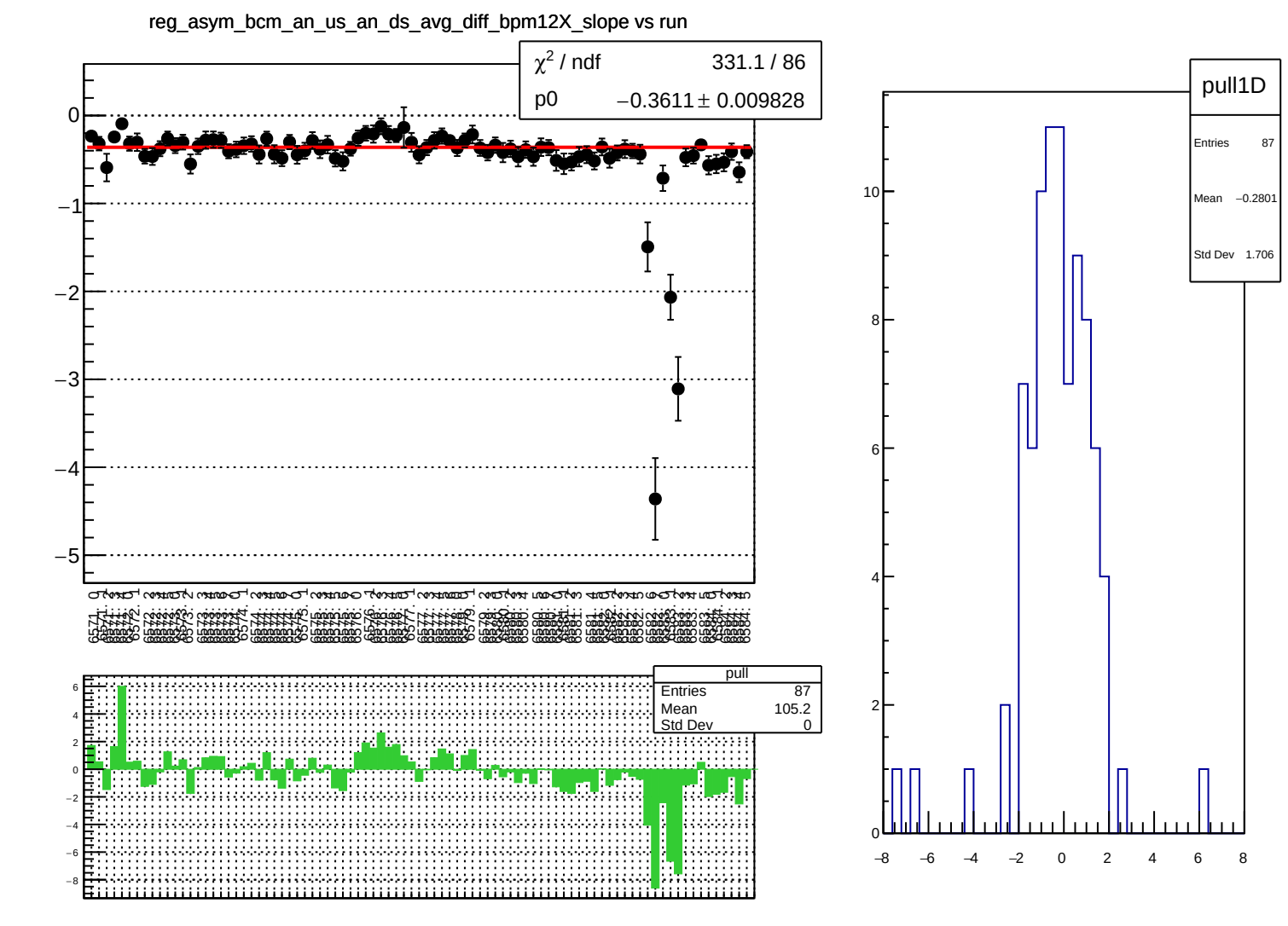

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 1.485e+04 / 86
p0 40.28 ± 0.22
pull
Entries 87
Mean 86.3
Std Dev 0
pull1D
Entries 87
Mean −0.04962
Std Dev 3.371

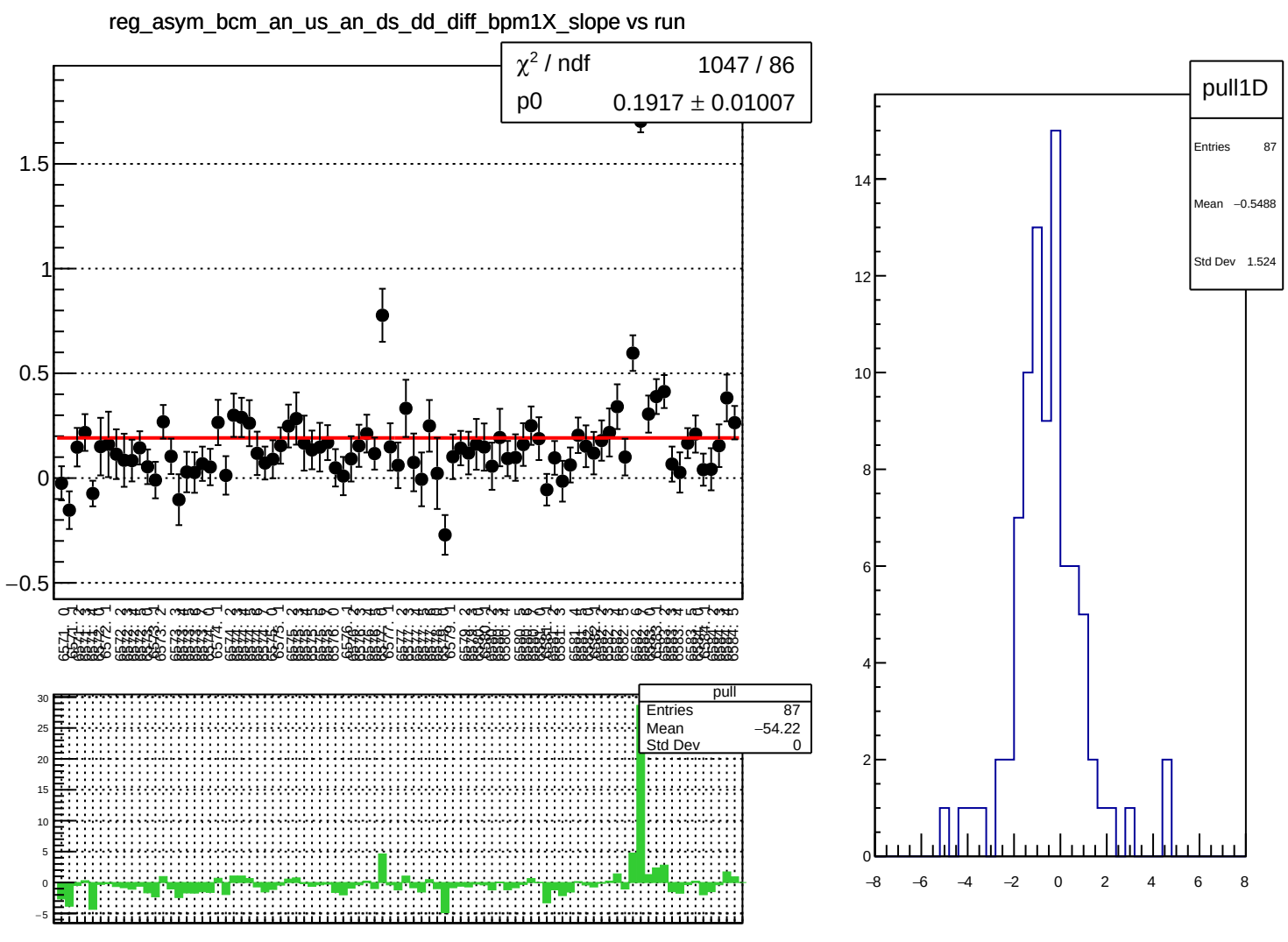

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 860 / 86
p0 0.1413 ± 0.183
pull
Entries 87
Mean 262.9
Std Dev 0
pull1D
Entries 87
Mean −0.04363
Std Dev 3.04

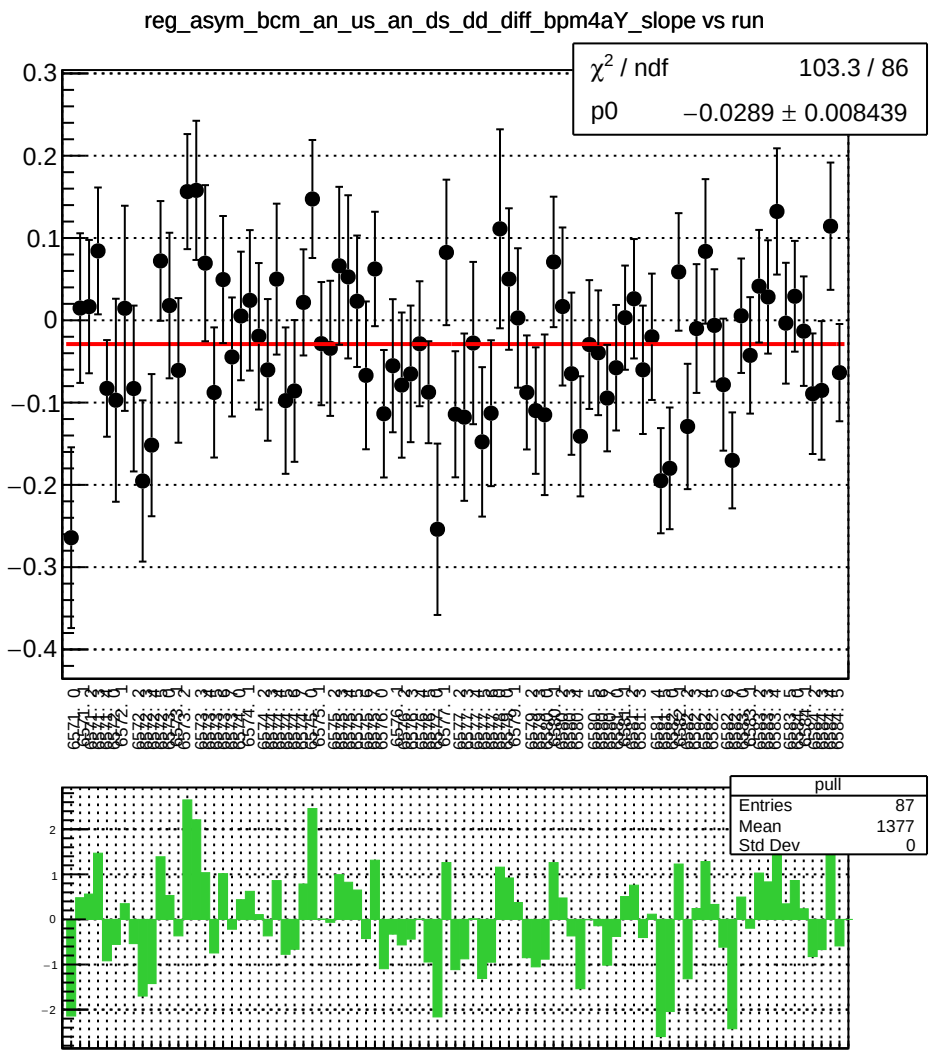

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.409e+04 / 86
p0 −40.62 ± 0.2262
pull
Entries 87
Mean 85.02
Std Dev 0

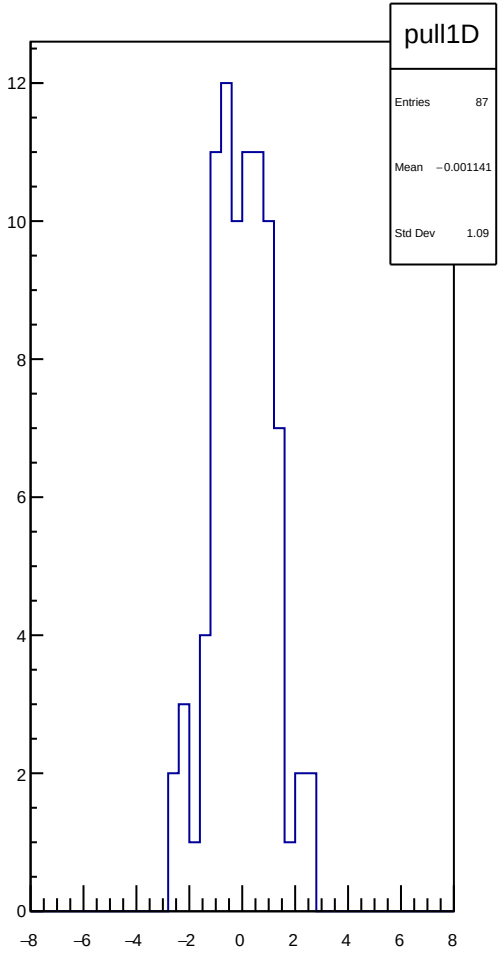

pull1D
Entries 87
Mean 0.02414
Std Dev 3.399

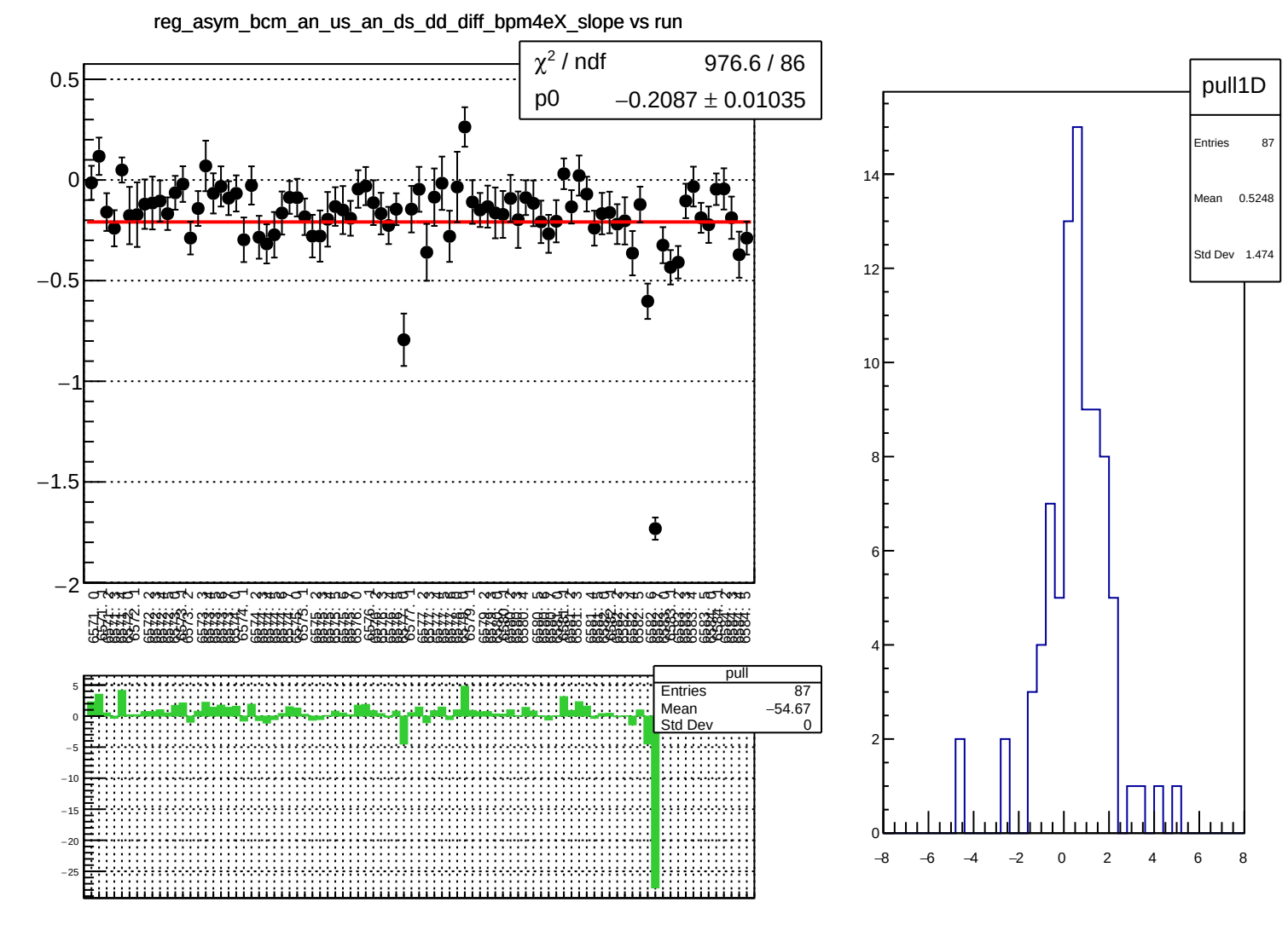

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 923.5 / 86
p0 −2.077 ± 0.2188
pull
Entries 87
Mean 1177
Std Dev 0
pull1D
Entries 87
Mean 0.02982
Std Dev 3.258

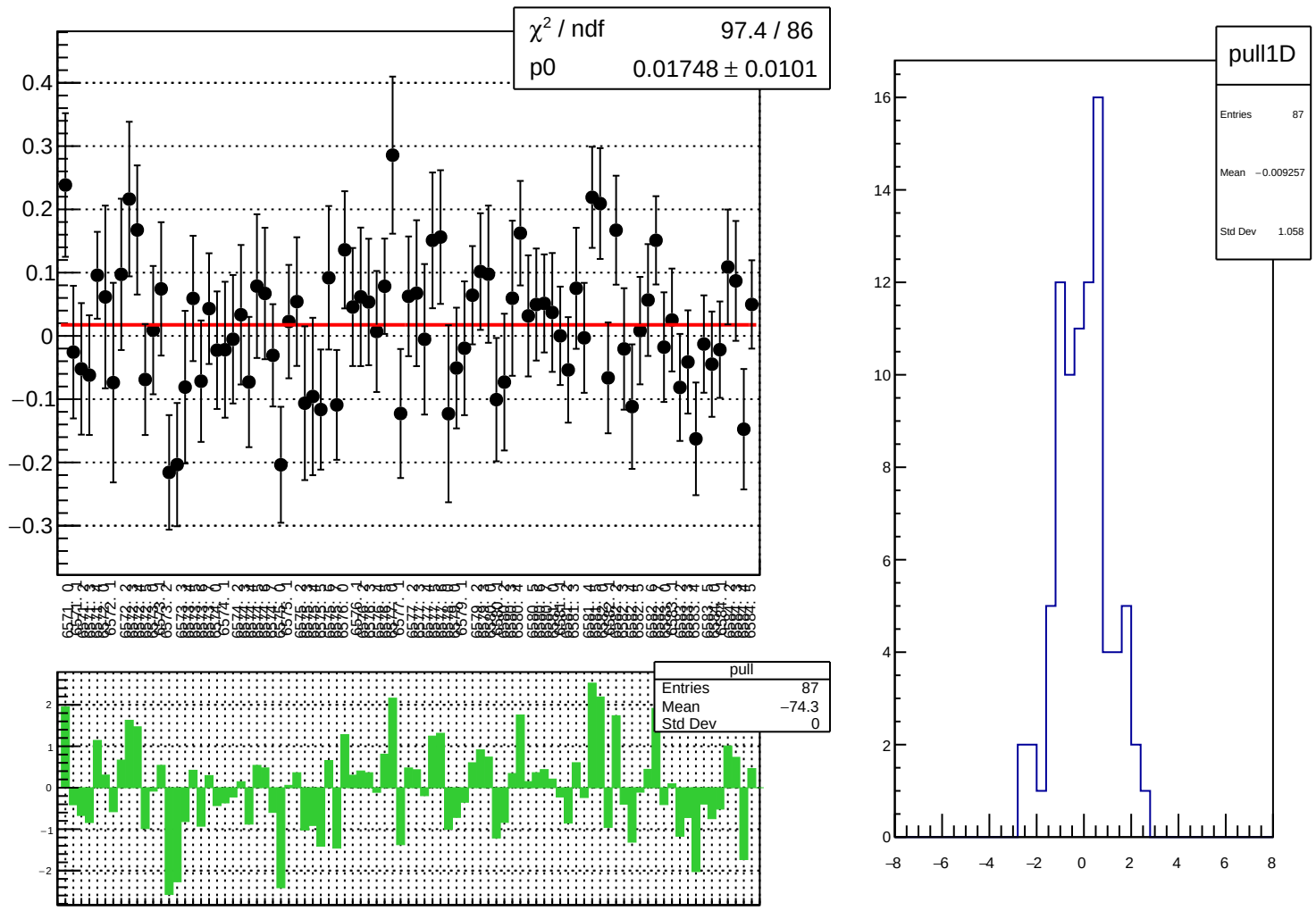

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 331.1 / 86
p0 −0.3611 ± 0.009828
pull
Entries 87
Mean 105.2
Std Dev 0
pull1D
Entries 87
Mean −0.2801
Std Dev 1.706

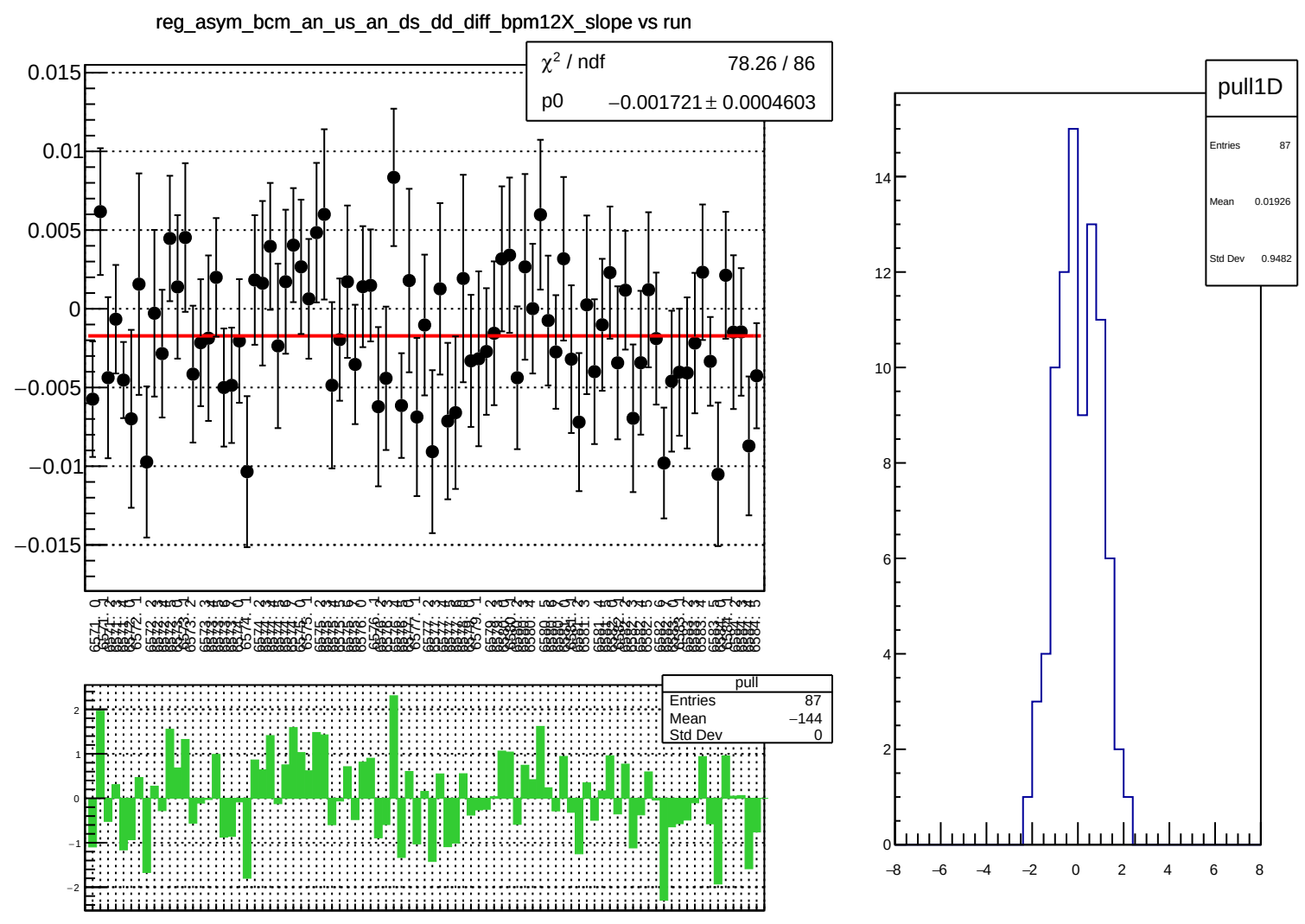

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 1047 / 86
p0 0.1917 ± 0.01007
pull
Entries 87
Mean −54.22
Std Dev 0
pull1D
Entries 87
Mean −0.5488
Std Dev 1.524

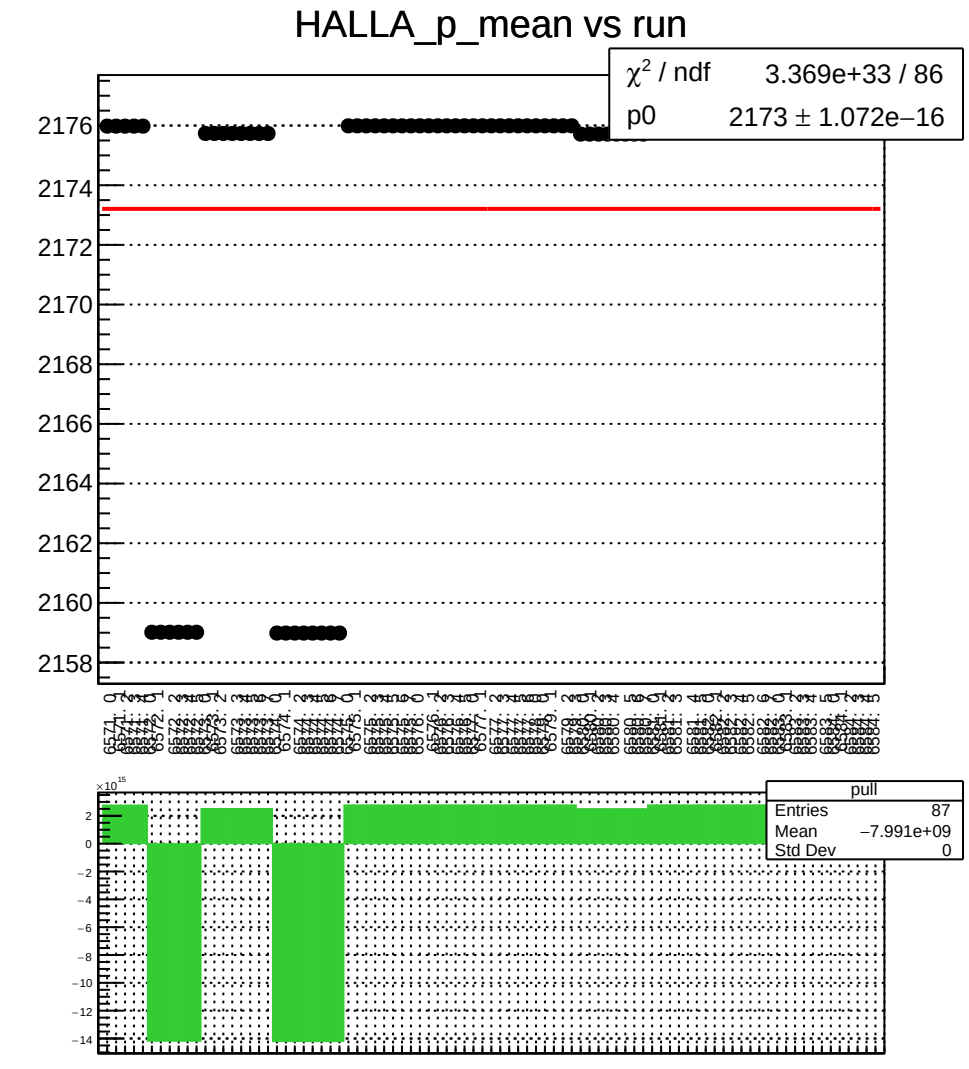

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 103.3 / 86
p0 −0.0289 ± 0.008439
pull
Entries 87
Mean 1377
Std Dev 0

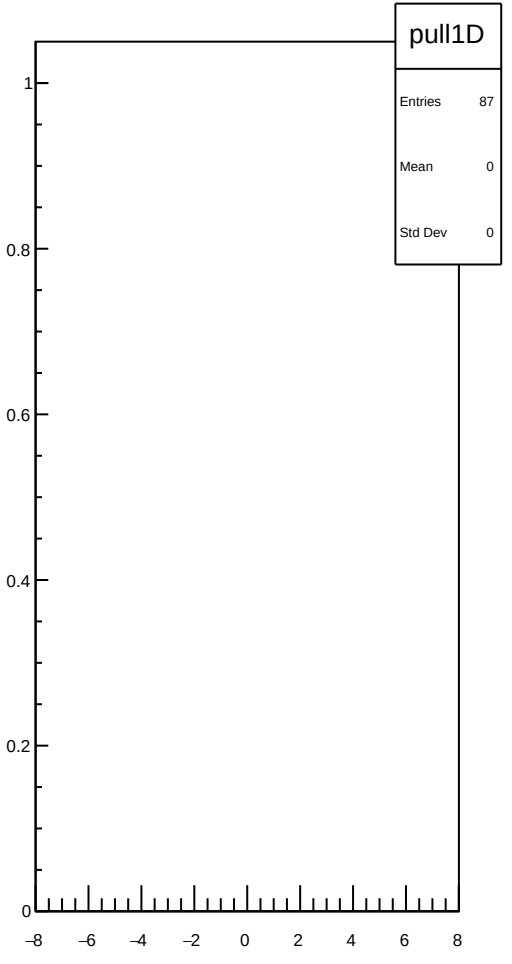

pull1D
Entries 87
Mean −0.001141
Std Dev 1.09

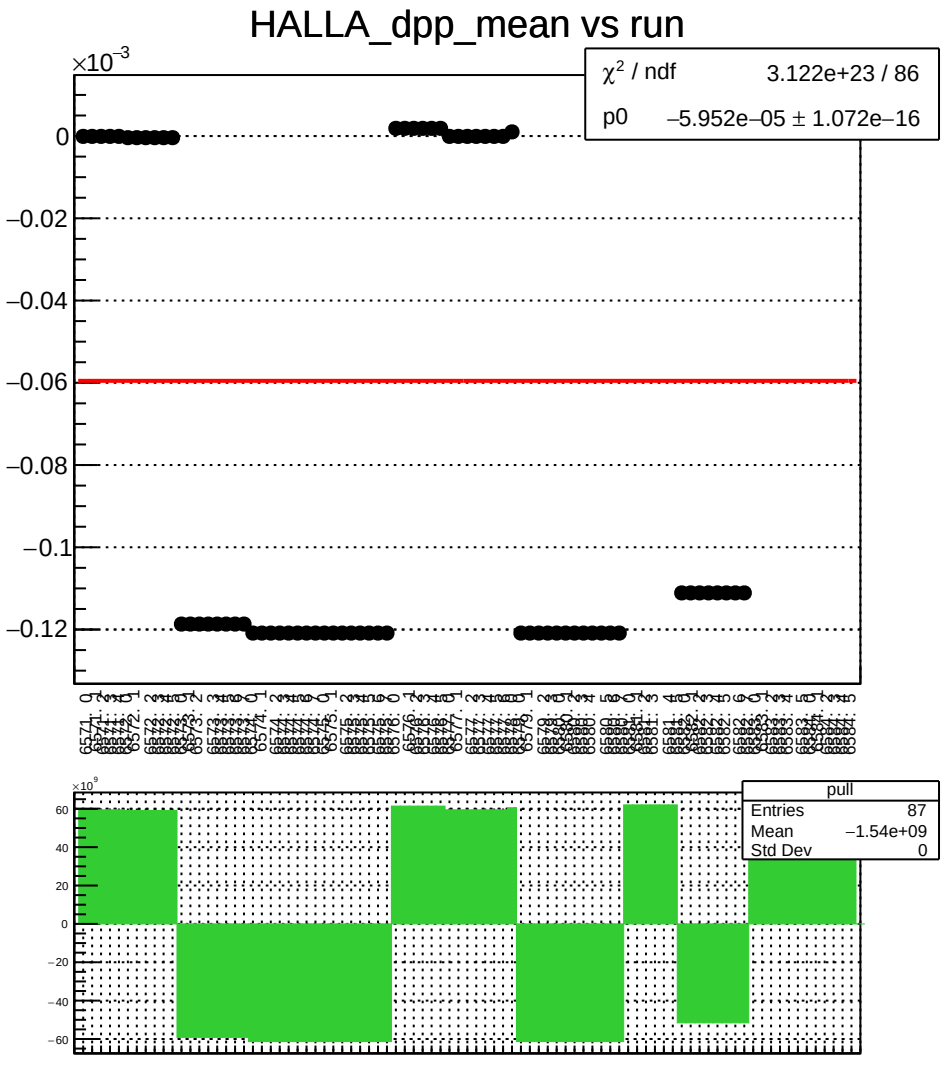

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 976.6 / 86
p0 −0.2087 ± 0.01035
pull
Entries 87
Mean −54.67
Std Dev 0
pull1D
Entries 87
Mean 0.5248
Std Dev 1.474

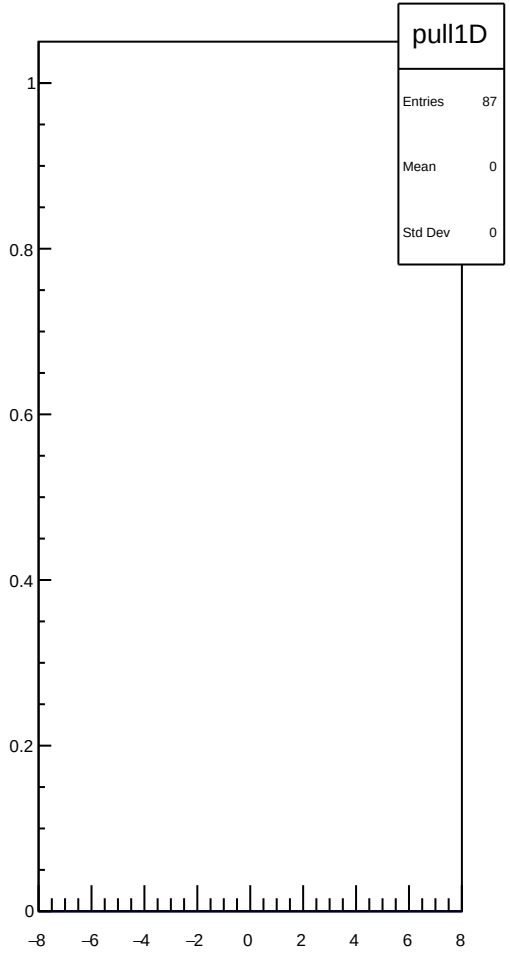

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 97.4 / 86
p0 0.01748 ± 0.0101
pull
Entries 87
Mean −74.3
Std Dev 0
pull1D
Entries 87
Mean −0.009257
Std Dev 1.058

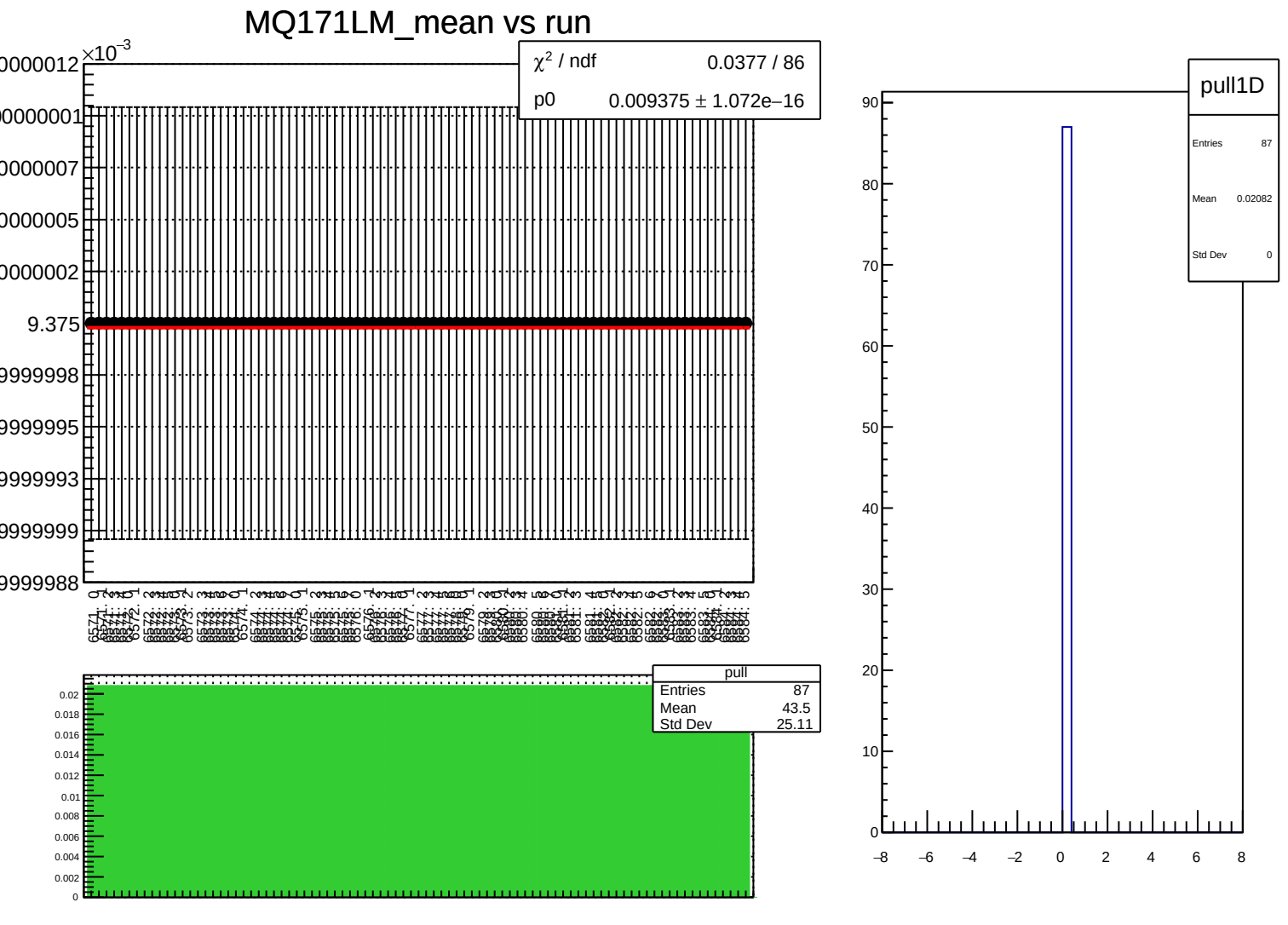

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 78.26 / 86
p0 −0.001721 ± 0.0004603
pull
Entries 87
Mean −144
Std Dev 0
pull1D
Entries 87
Mean 0.01926
Std Dev 0.9482

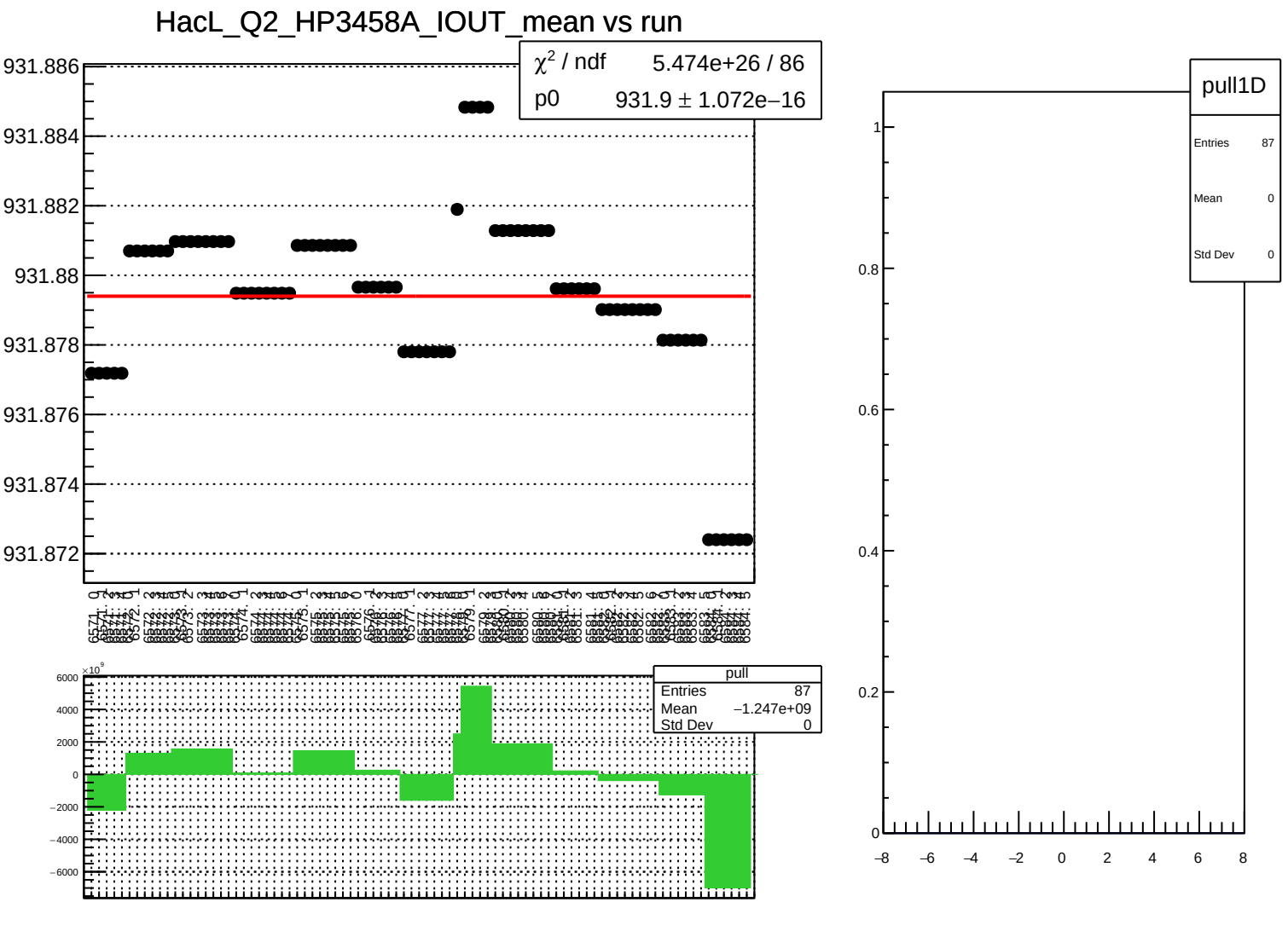

HALLA_p_mean vs run
χ² / ndf 3.369e+33 / 86
p0 2173 ± 1.072e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 87
Mean −7.991e+09
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

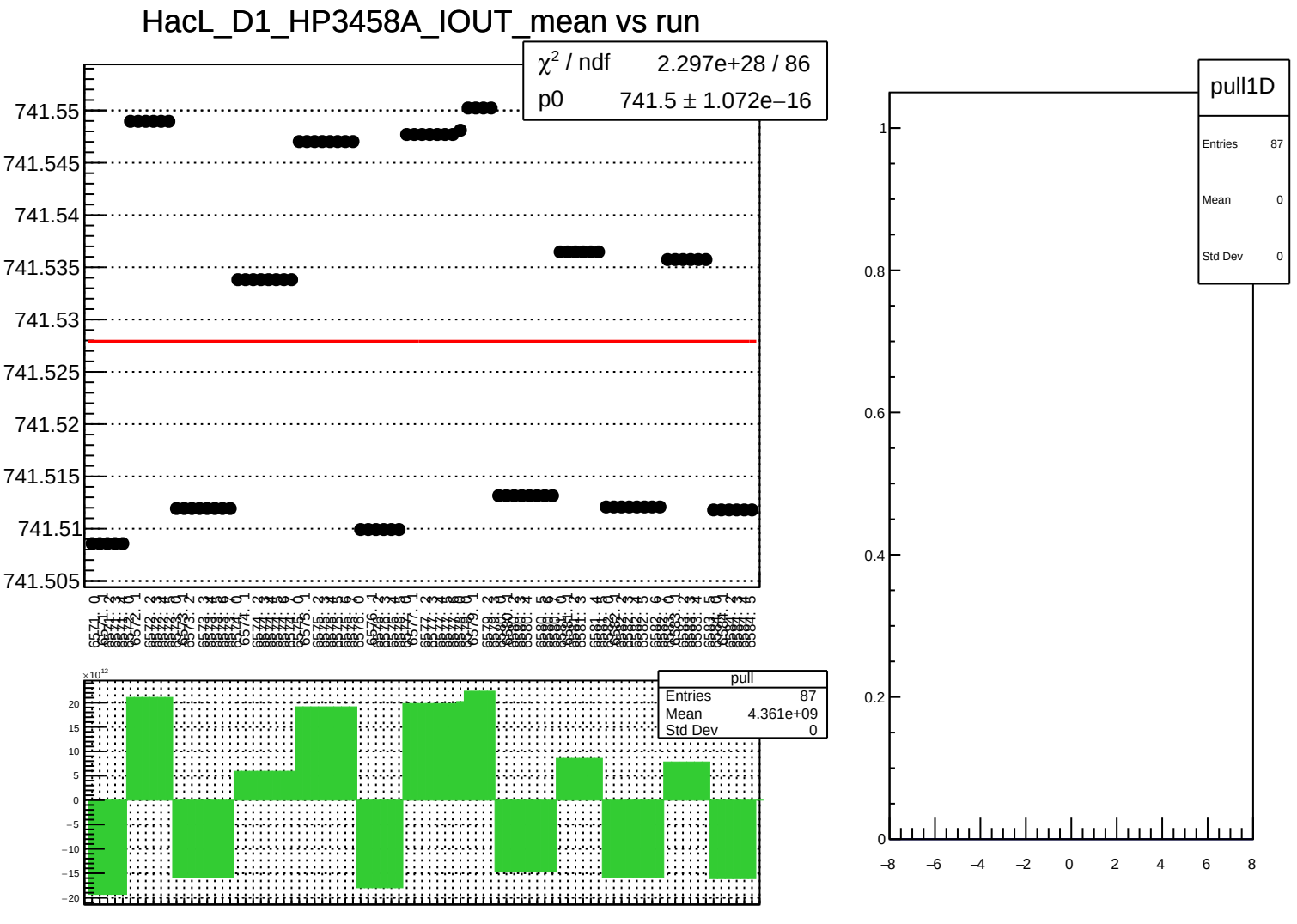

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

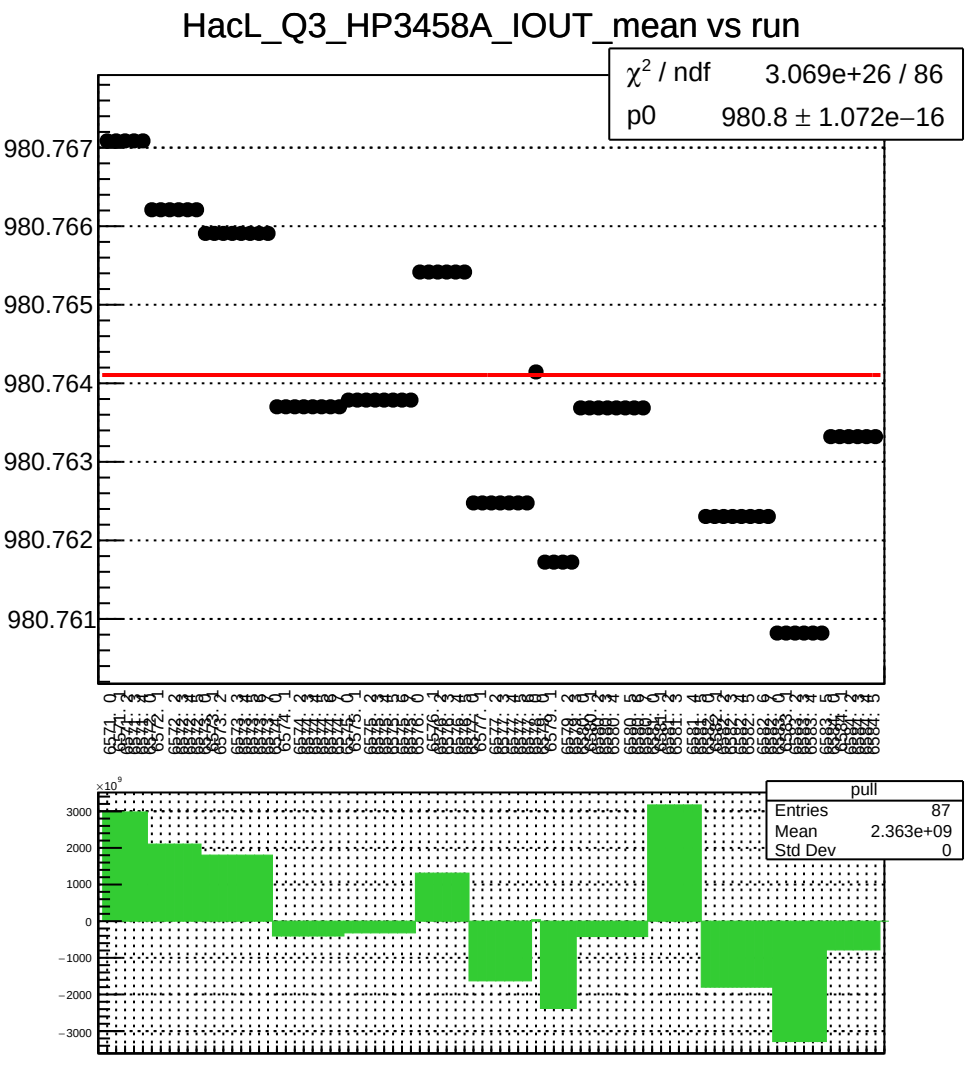

HALLA_dpp_mean vs run
χ² / ndf 3.122e+23 / 86
p0 −5.952e−05 ± 1.072e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 87
Mean −1.54e+09
Std Dev 0
×10⁹
60
40
20
0
−20
−40
−60

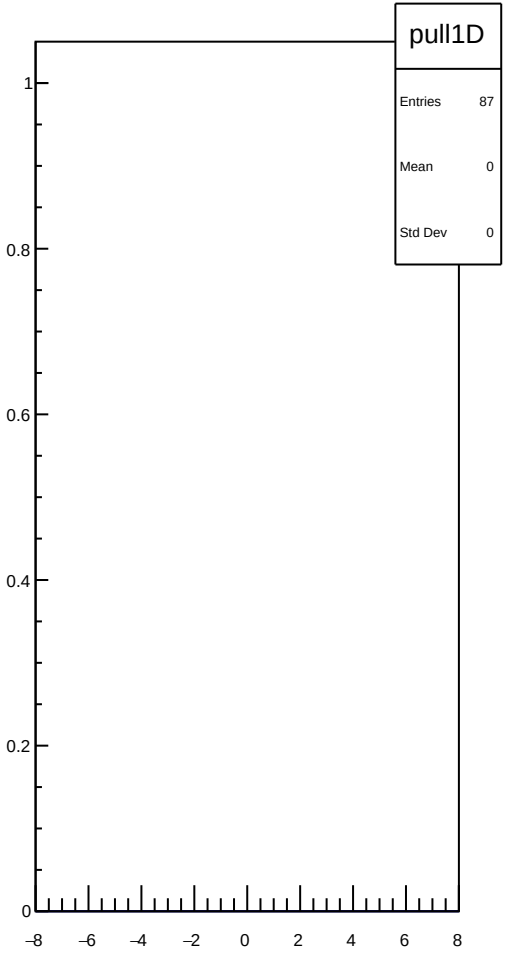

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

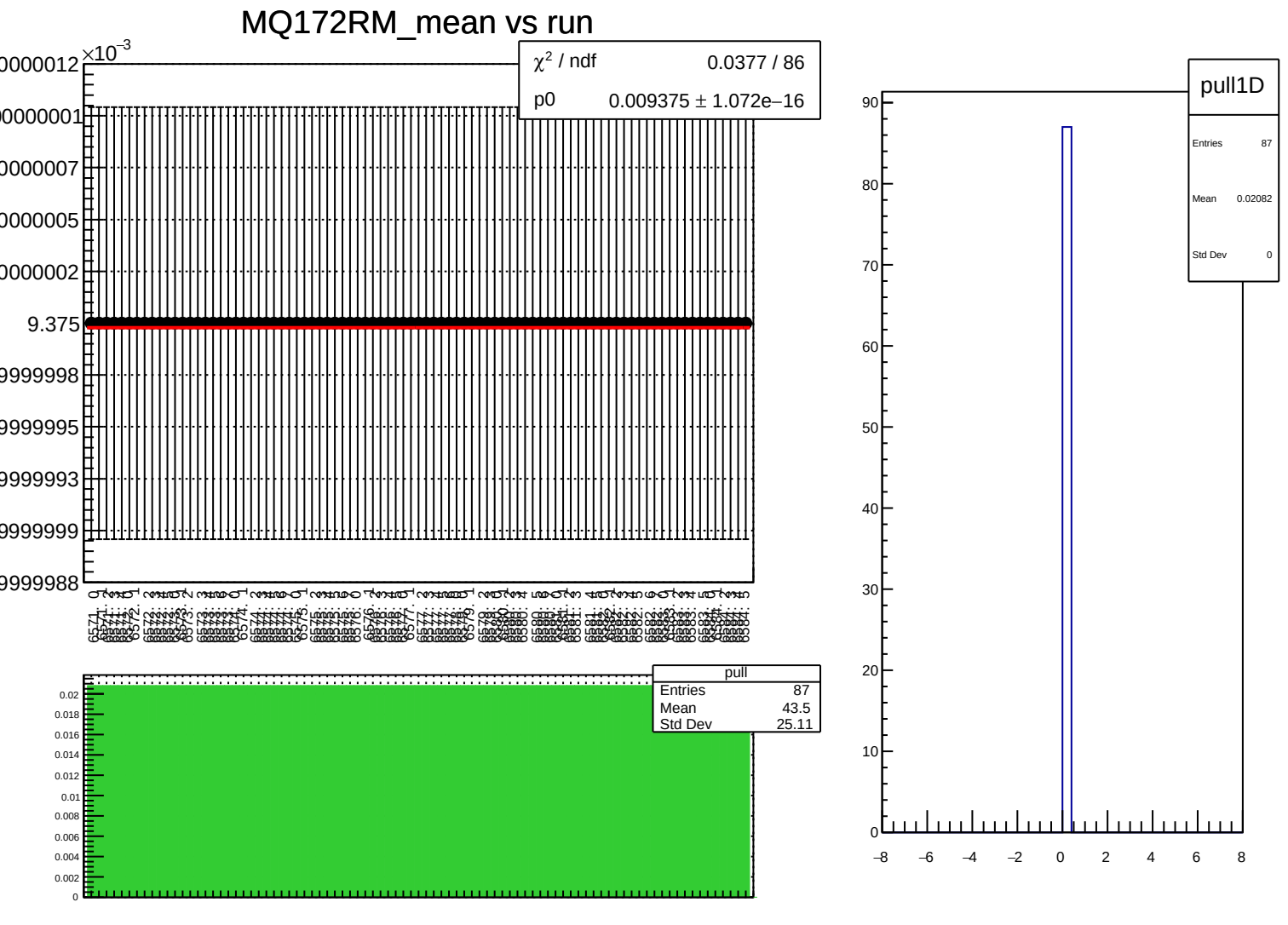

MQ171LM_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
9.375
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 0.02082
Std Dev 0

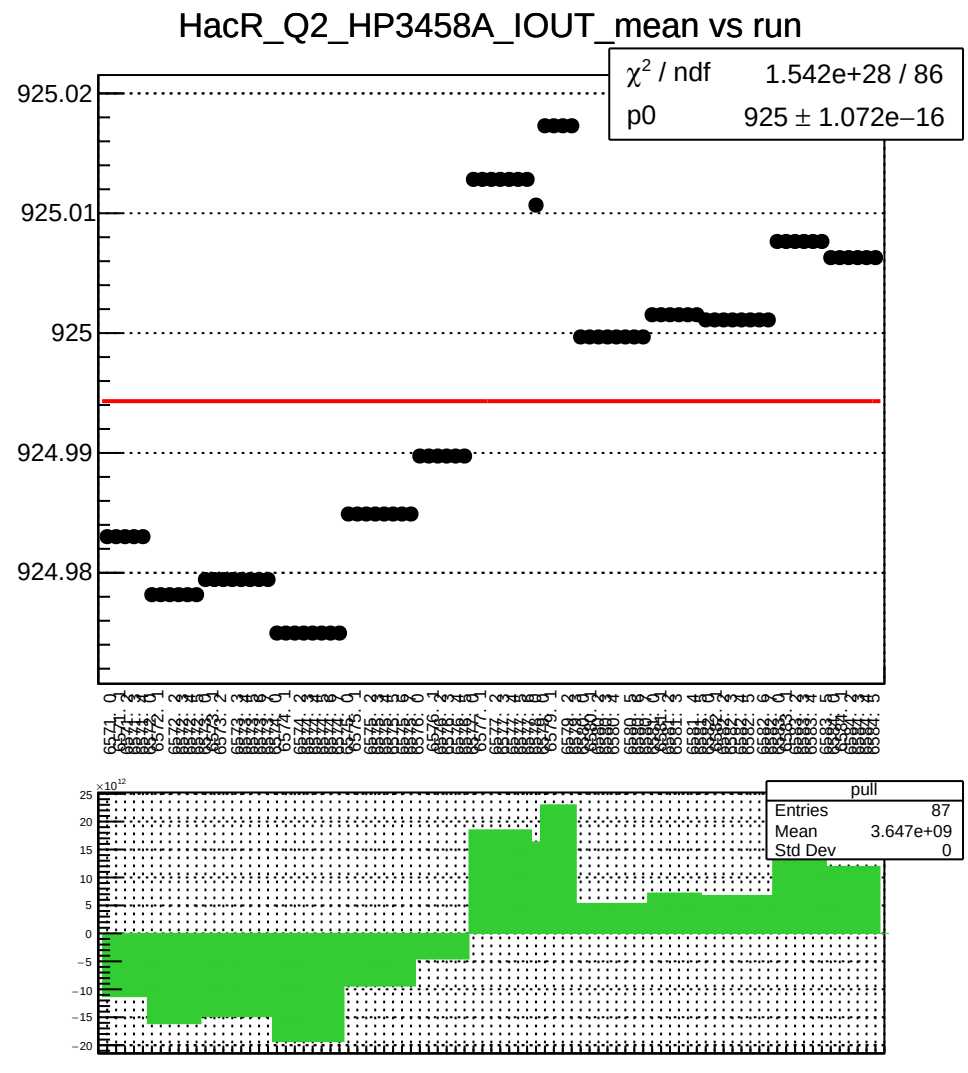

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.474e+26 / 86
p0 931.9 ± 1.072e−16
931.886
931.884
931.882
931.88
931.878
931.876
931.874
931.872
pull
Entries 87
Mean −1.247e+09
Std Dev 0
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

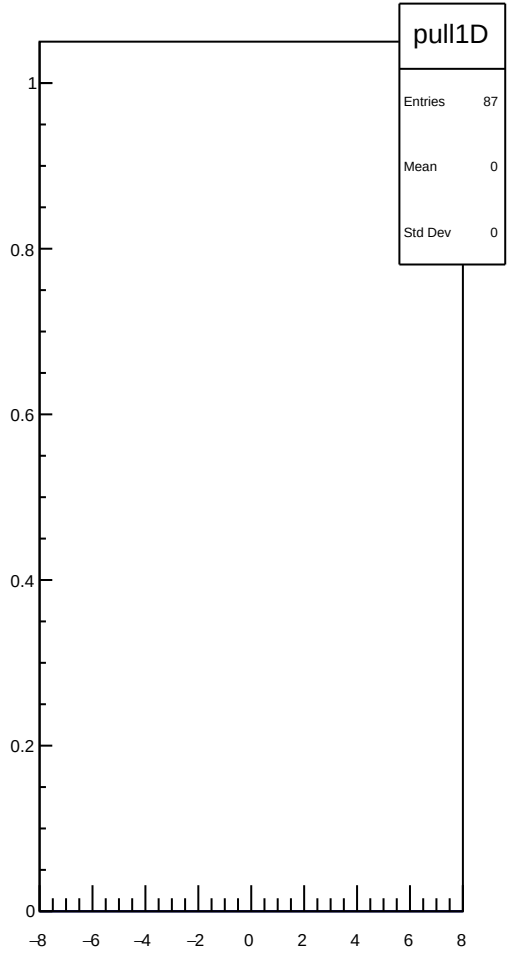

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.297e+28 / 86
p0 741.5 ± 1.072e−16
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
741.505
pull
Entries 87
Mean 4.361e+09
Std Dev 0
×10¹²
20
15
10
5
0
−5
−10
−15
−20
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

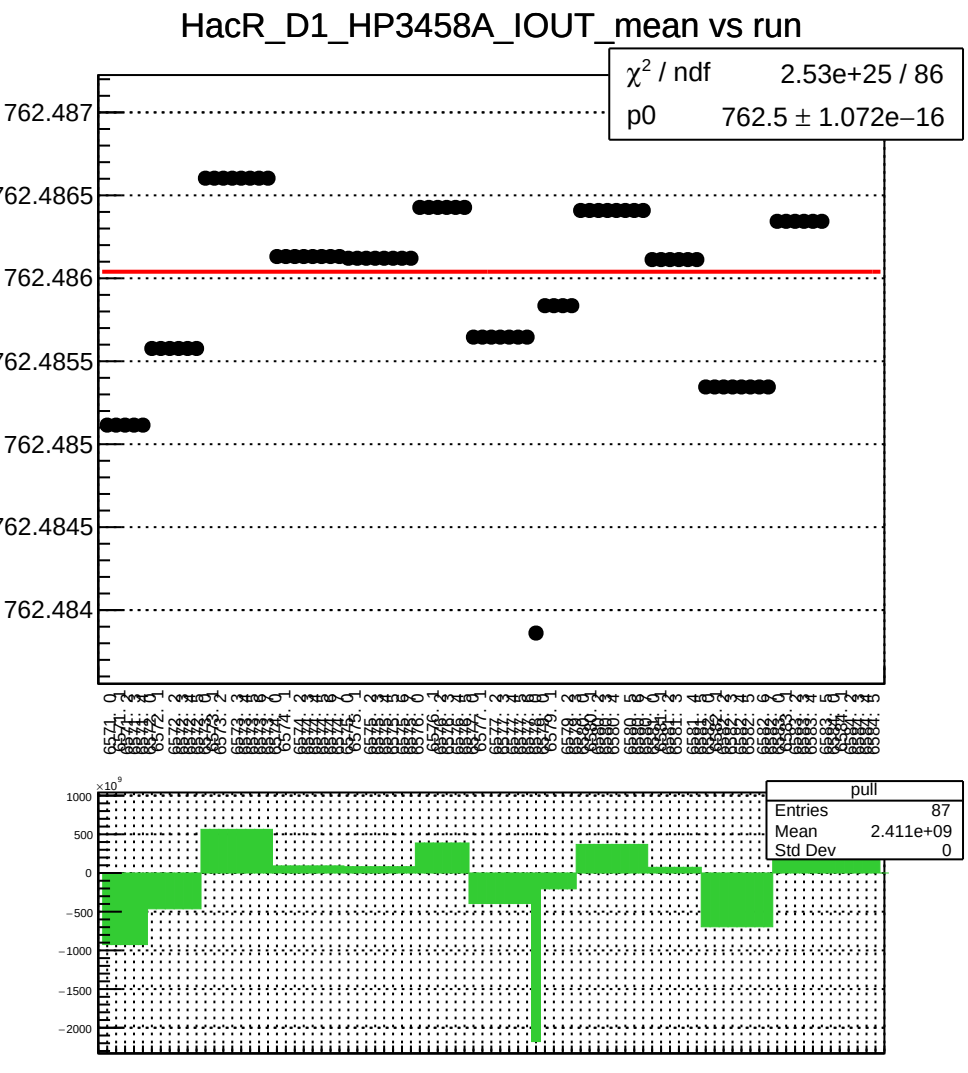

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.069e+26 / 86
p0 980.8 ± 1.072e−16
980.767
980.766
980.765
980.764
980.763
980.762
980.761
pull
Entries 87
Mean 2.363e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000

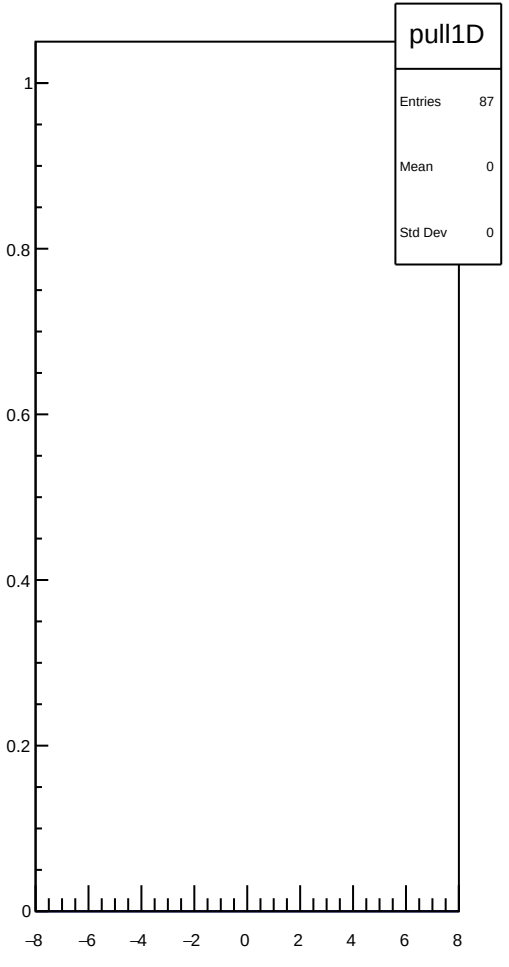

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

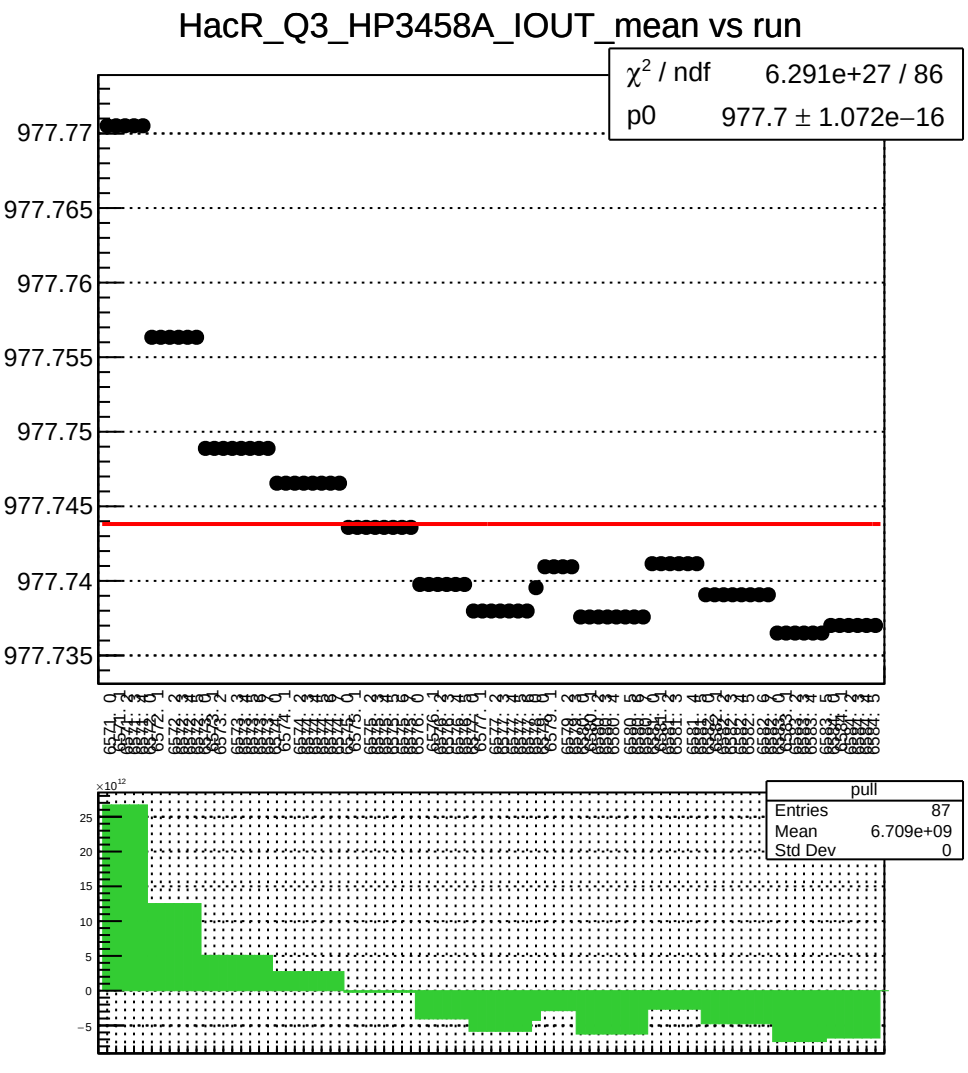

MQ172RM_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 0.02082
Std Dev 0

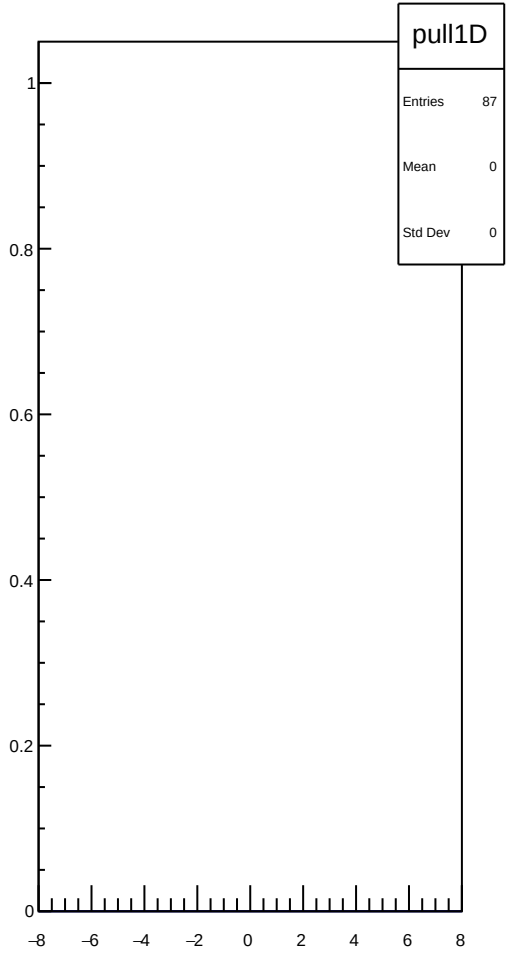

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.542e+28 / 86
p0 925 ± 1.072e−16
925.02
925.01
925
924.99
924.98
pull
Entries 87
Mean 3.647e+09
Std Dev 0
×10¹²
25
20
15
10
5
0
−5
−10
−15
−20

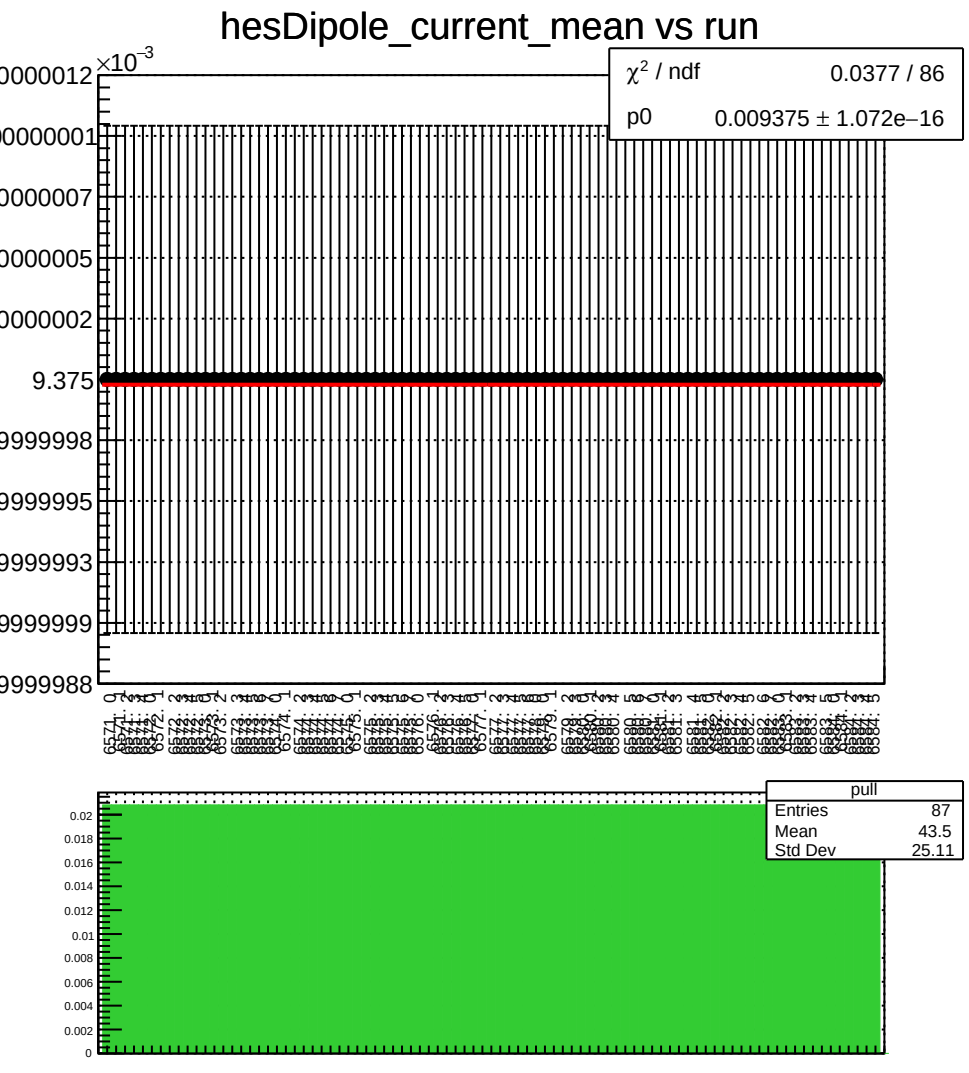

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

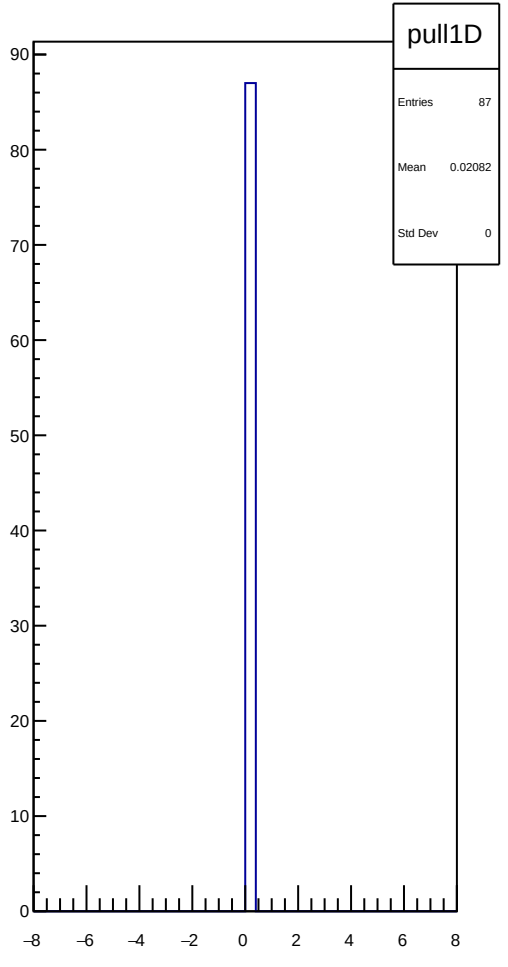

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.53e+25 / 86
p0 762.5 ± 1.072e−16
762.487
762.4865
762.486
762.4855
762.485
762.4845
762.484
pull
Entries 87
Mean 2.411e+09
Std Dev 0
×10⁹
1000
500
0
−500
−1000
−1500
−2000

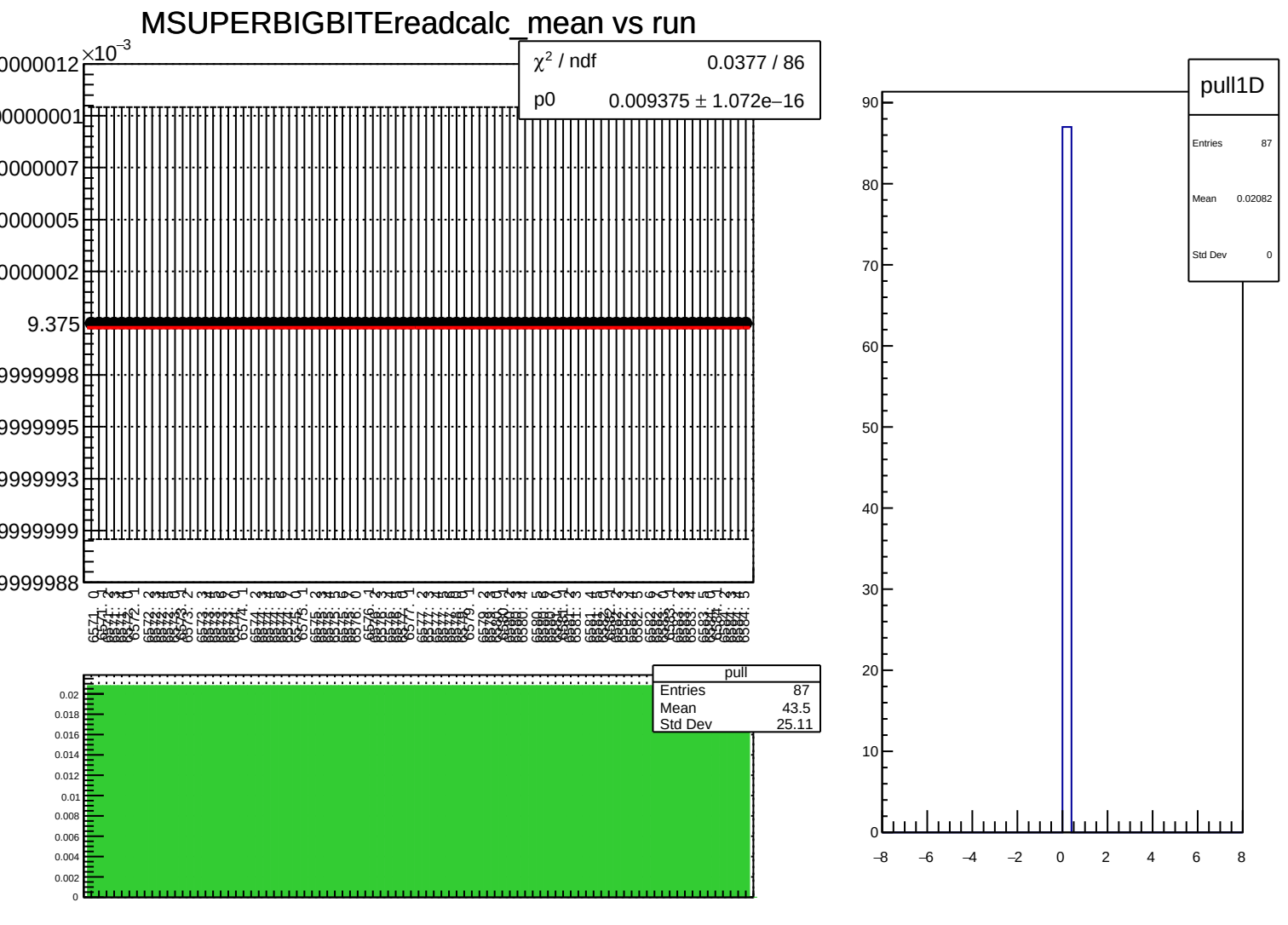

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

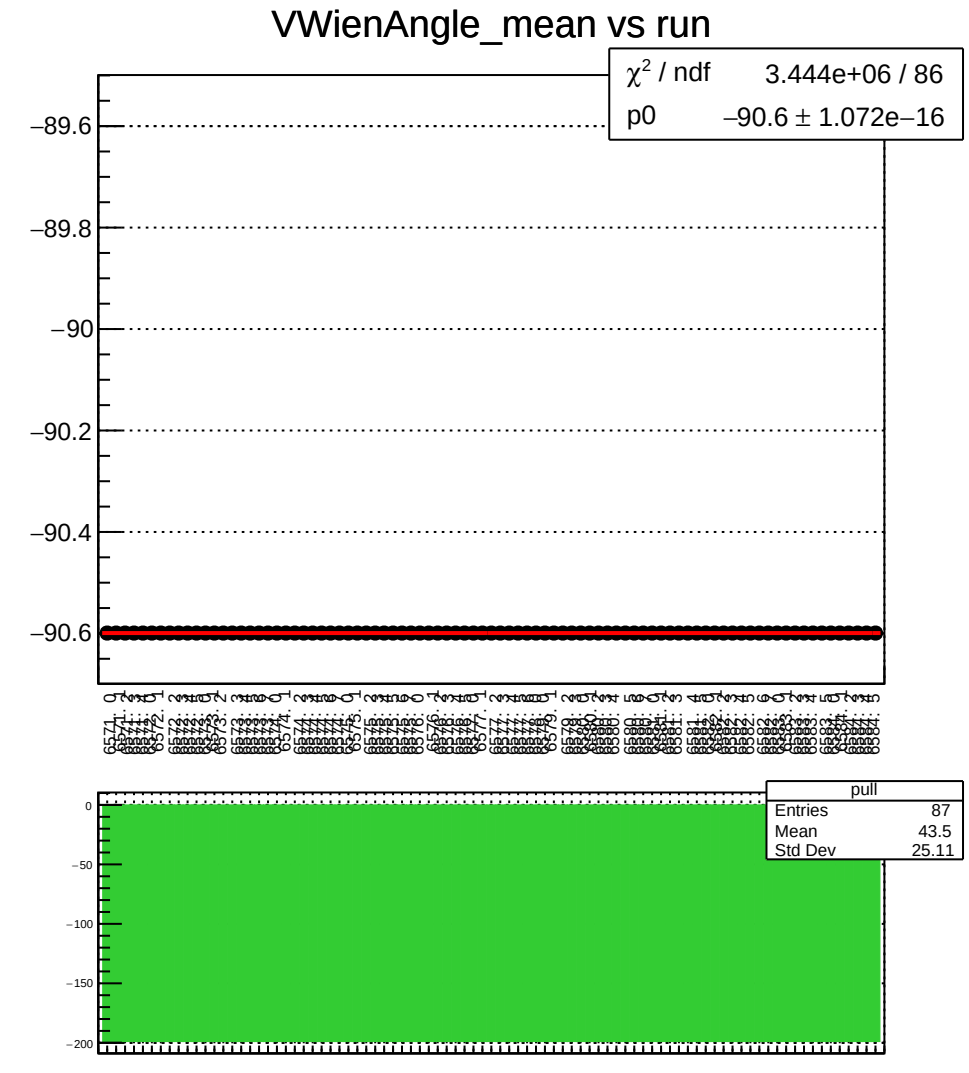

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.291e+27 / 86
p0 977.7 ± 1.072e−16
977.77
977.765
977.76
977.755
977.75
977.745
977.74
977.735
pull
Entries 87
Mean 6.709e+09
Std Dev 0
×10¹²
25
20
15
10
5
0
−5

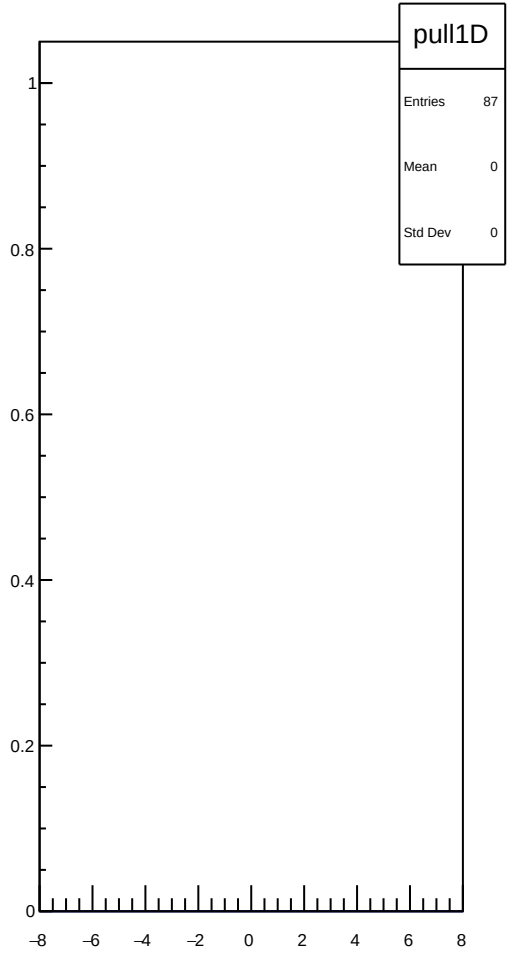

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

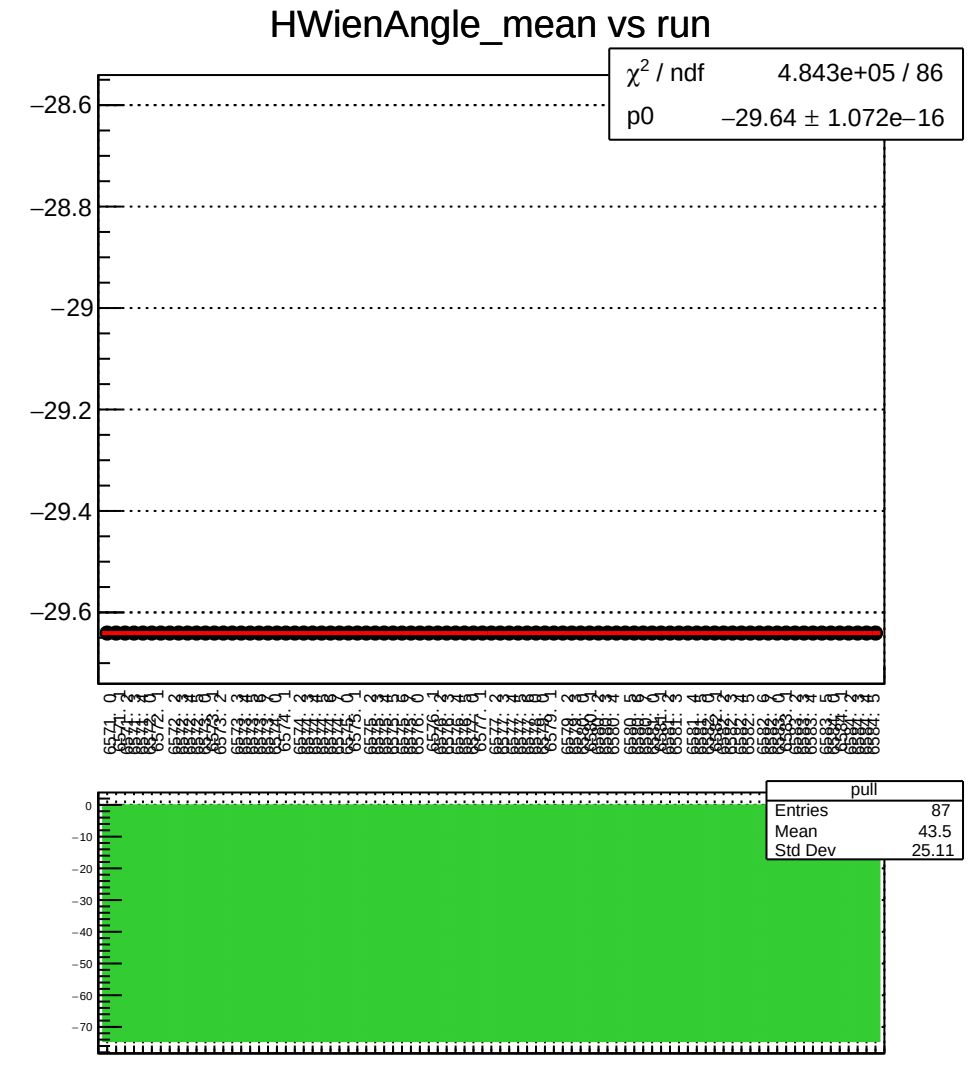

hesDipole_current_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
pull
Entries 87
Mean 43.5
Std Dev 25.11

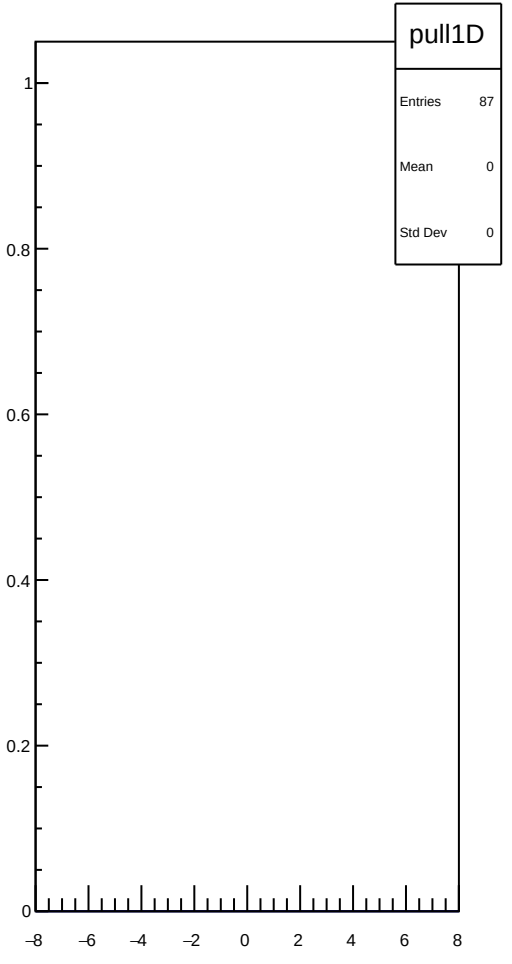

pull1D
Entries 87
Mean 0.02082
Std Dev 0

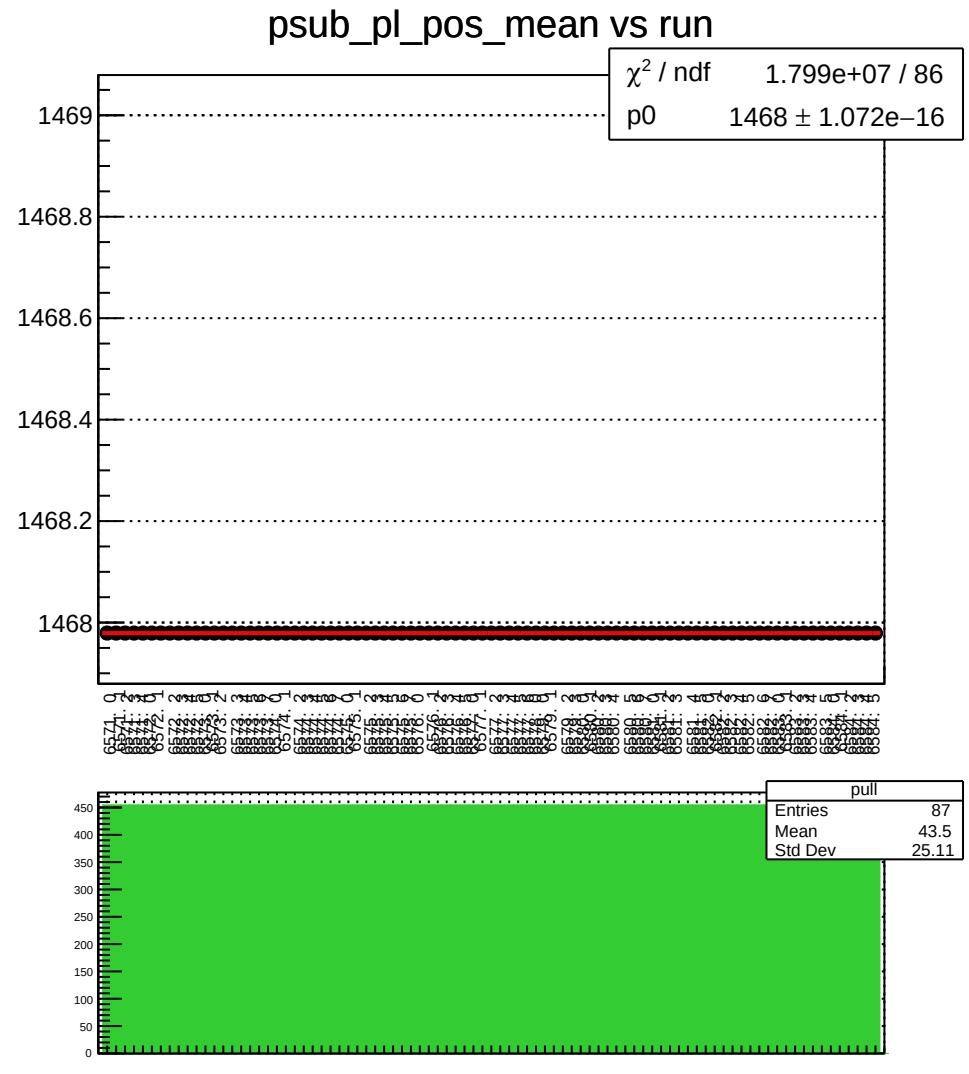

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
9.375
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 0.02082
Std Dev 0

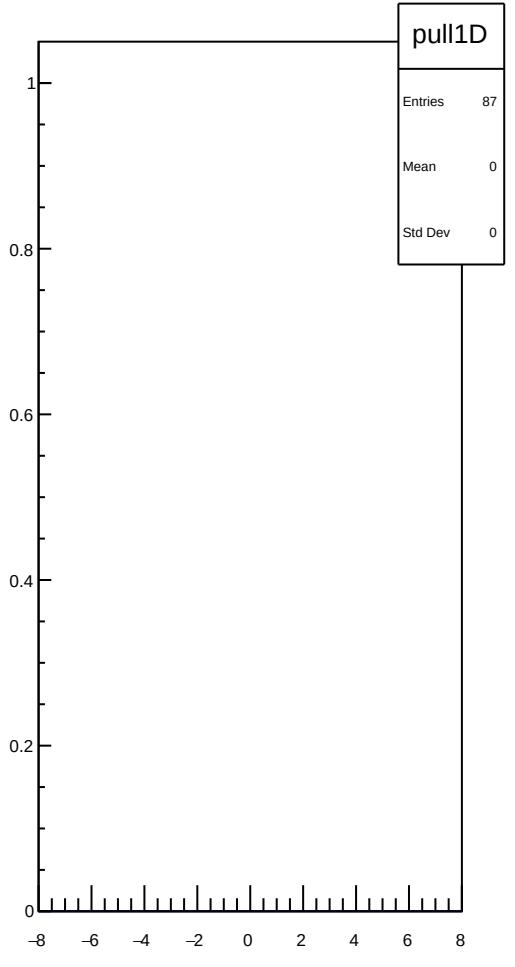

VWienAngle_mean vs run
χ² / ndf 3.444e+06 / 86
p0 −90.6 ± 1.072e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 87
Mean 43.5
Std Dev 25.11
0
−50
−100
−150
−200

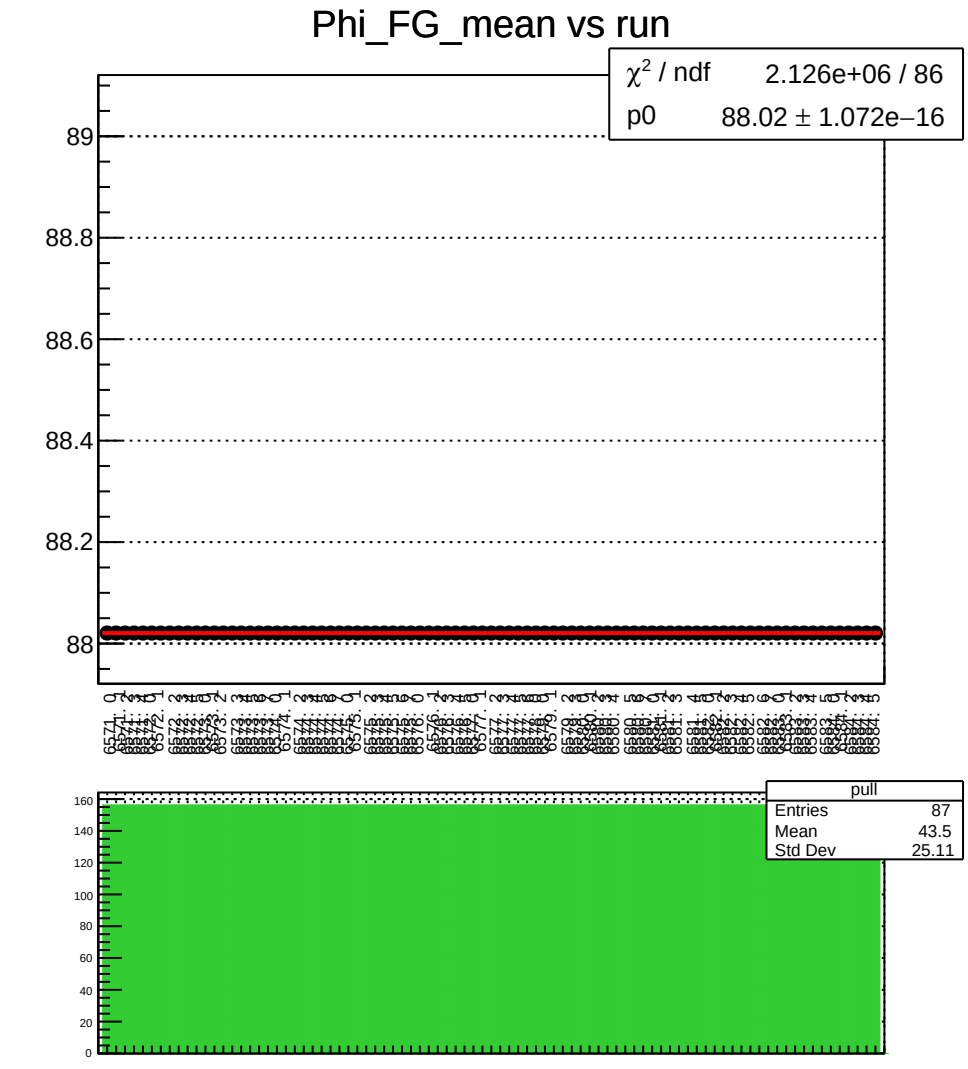

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

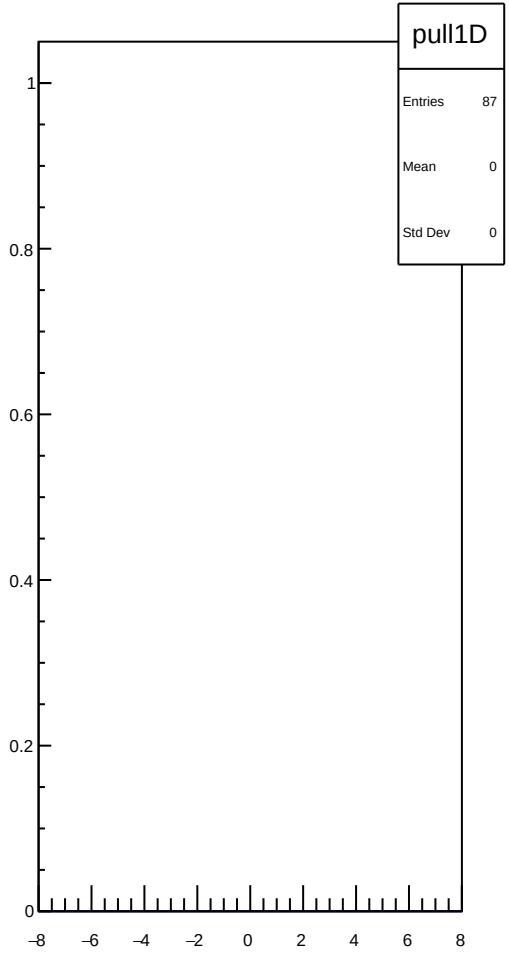

HWienAngle_mean vs run
χ² / ndf 4.843e+05 / 86
p0 −29.64 ± 1.072e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 87
Mean 43.5
Std Dev 25.11
0
−10
−20
−30
−40
−50
−60
−70

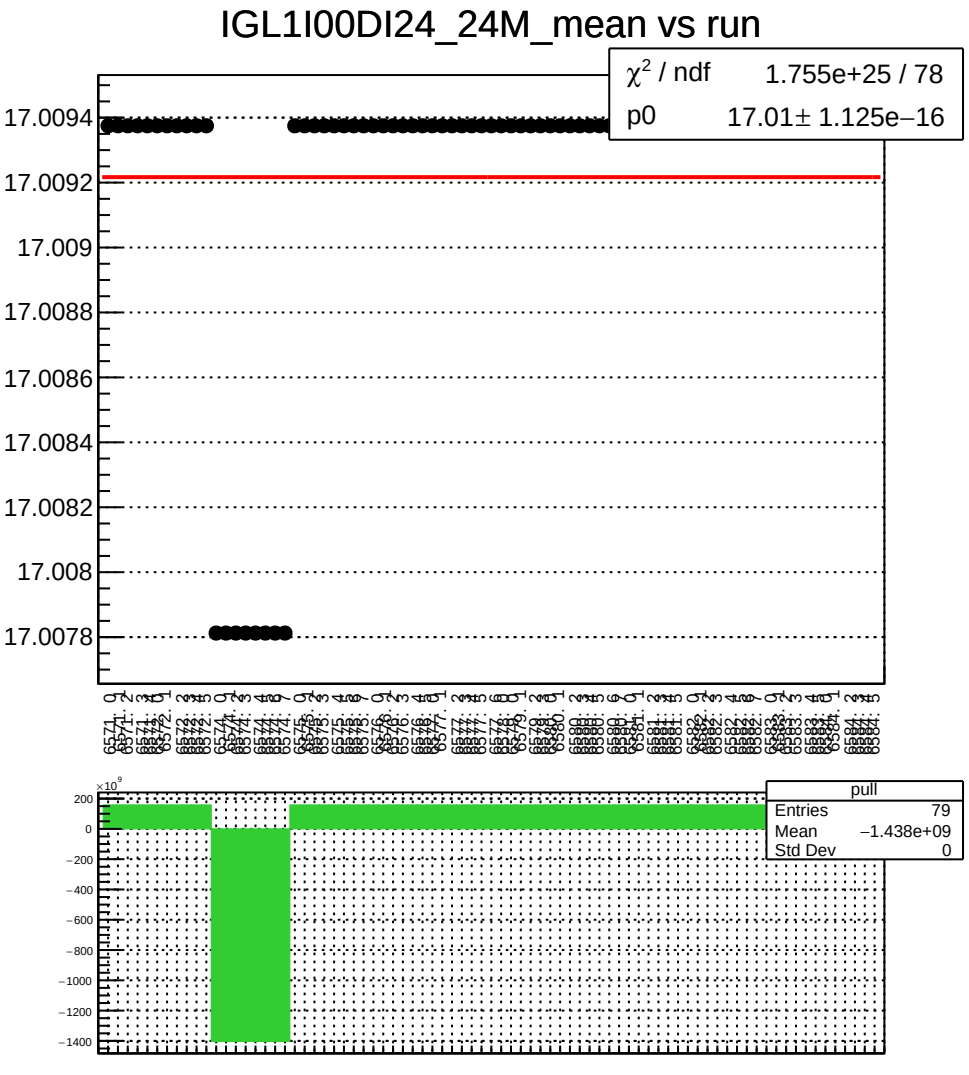

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

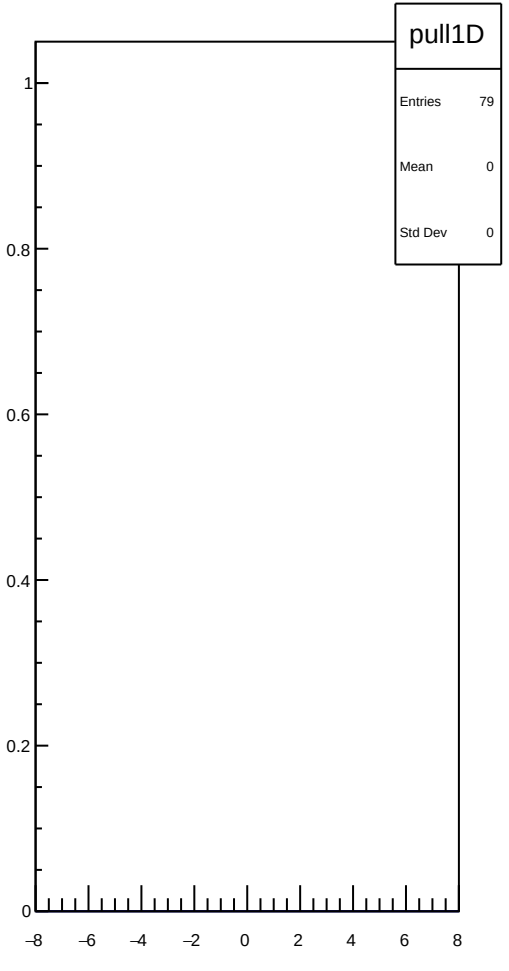

psub_pl_pos_mean vs run
χ² / ndf 1.799e+07 / 86
p0 1468 ± 1.072e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 87
Mean 43.5
Std Dev 25.11
450
400
350
300
250
200
150
100
50
0

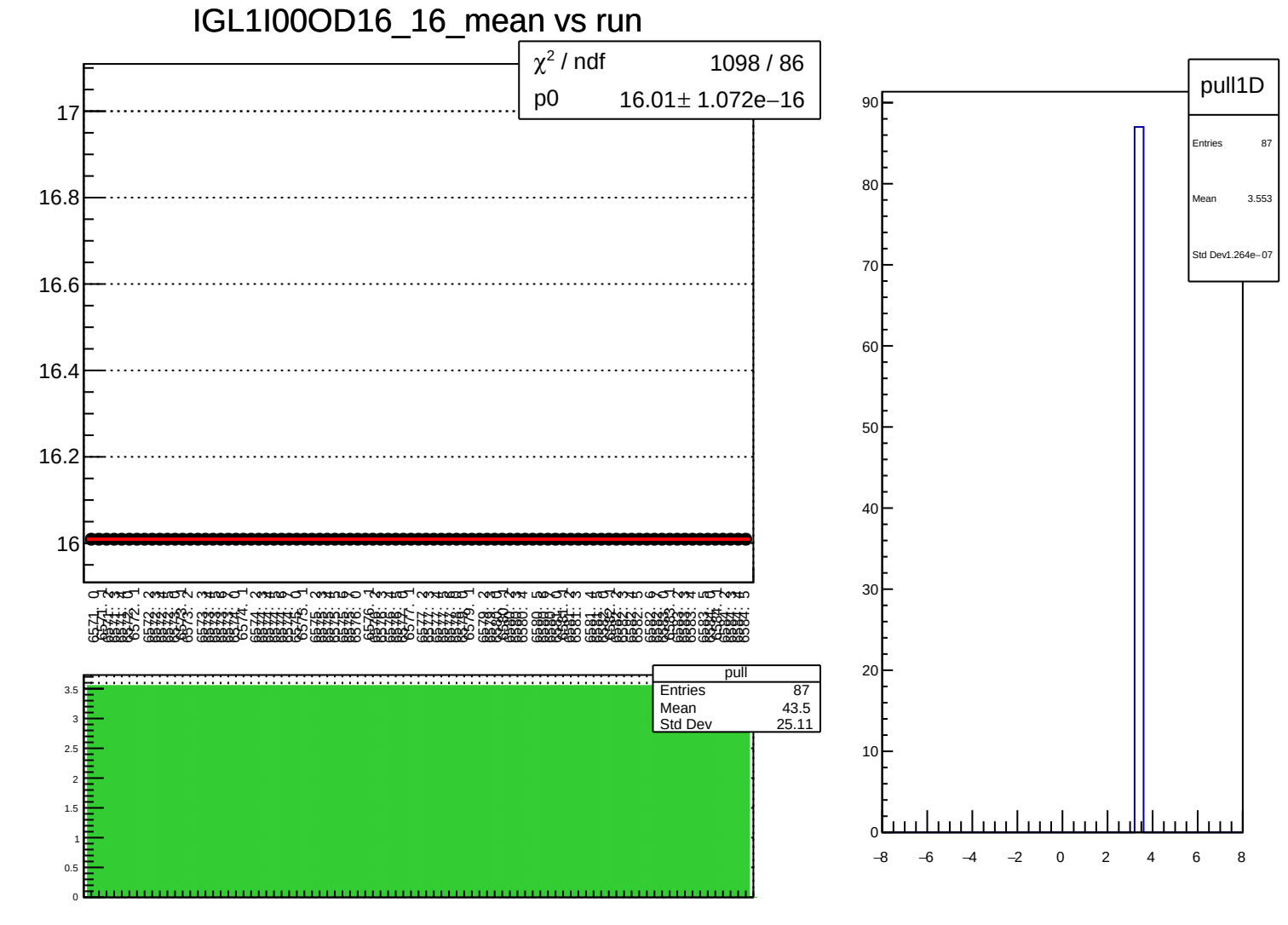

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

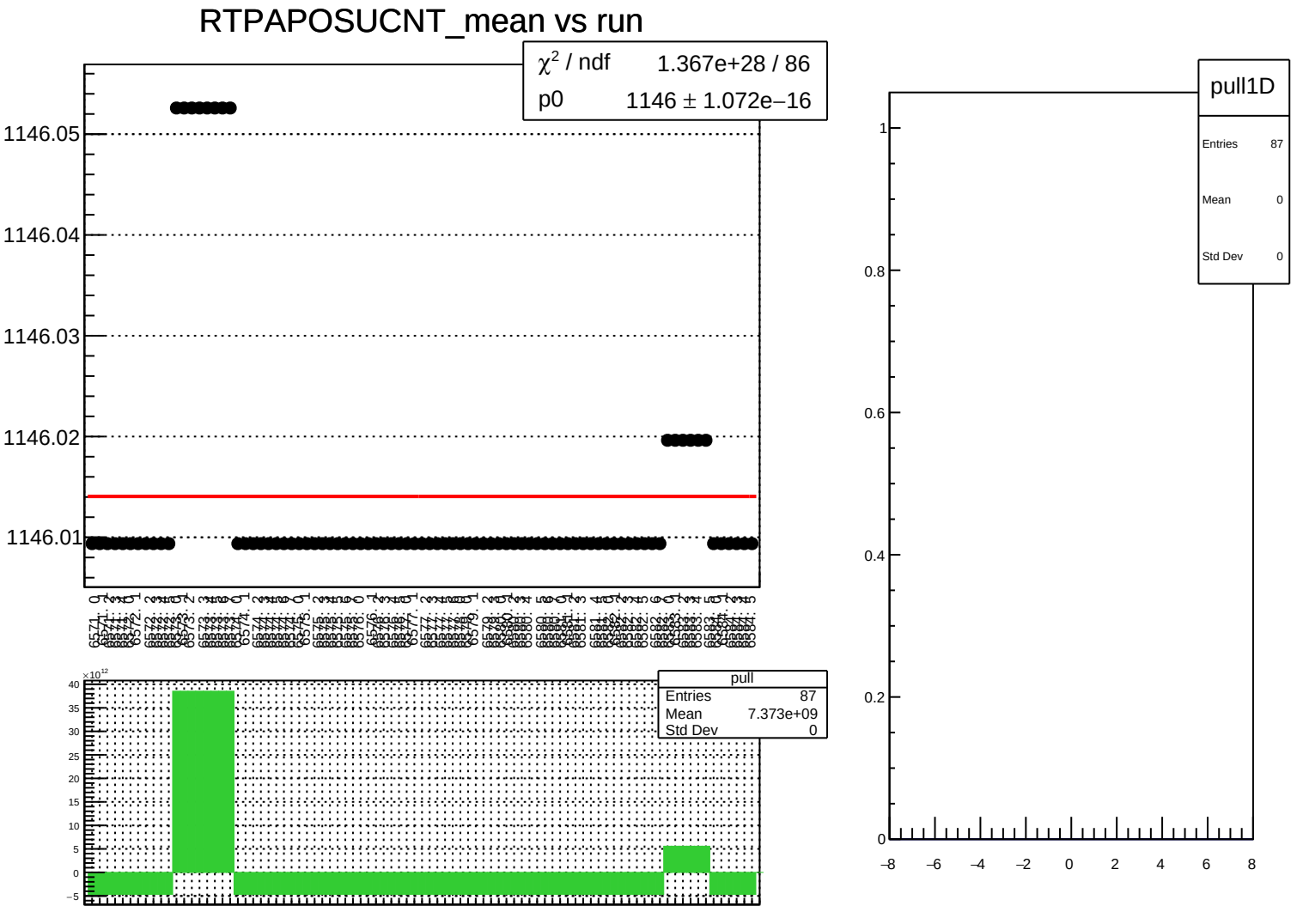

Phi_FG_mean vs run
χ² / ndf 2.126e+06 / 86
p0 88.02 ± 1.072e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 87
Mean 43.5
Std Dev 25.11
160
140
120
100
80
60
40
20
0

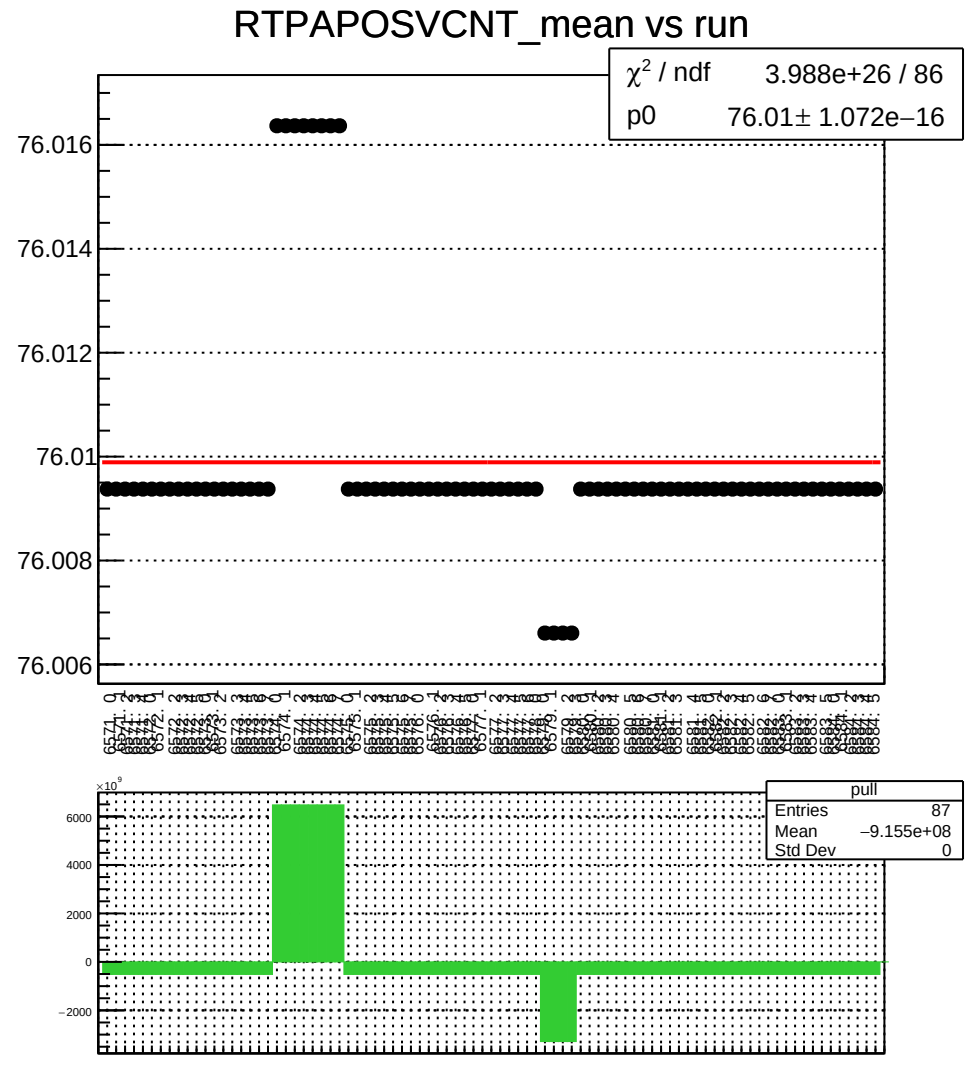

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

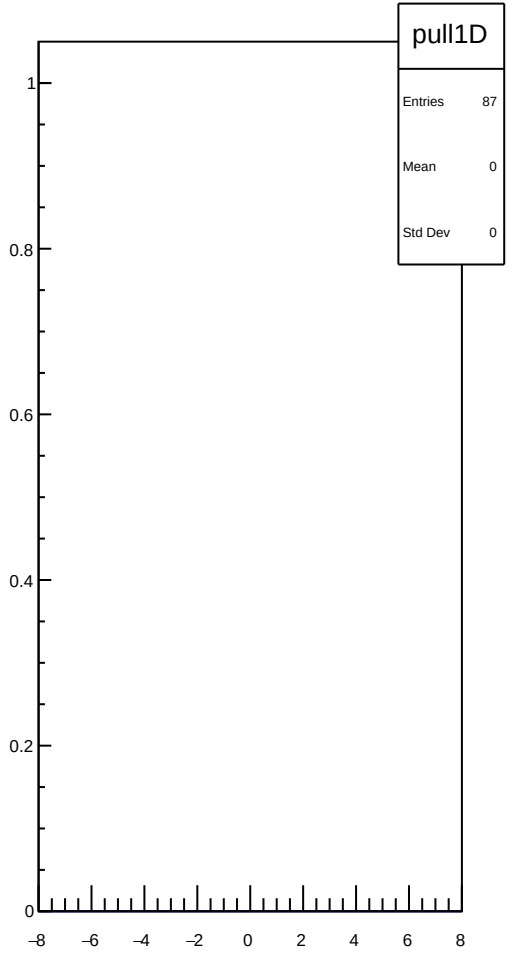

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.755e+25 / 78
p0 17.01± 1.125e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 79
Mean −1.438e+09
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400

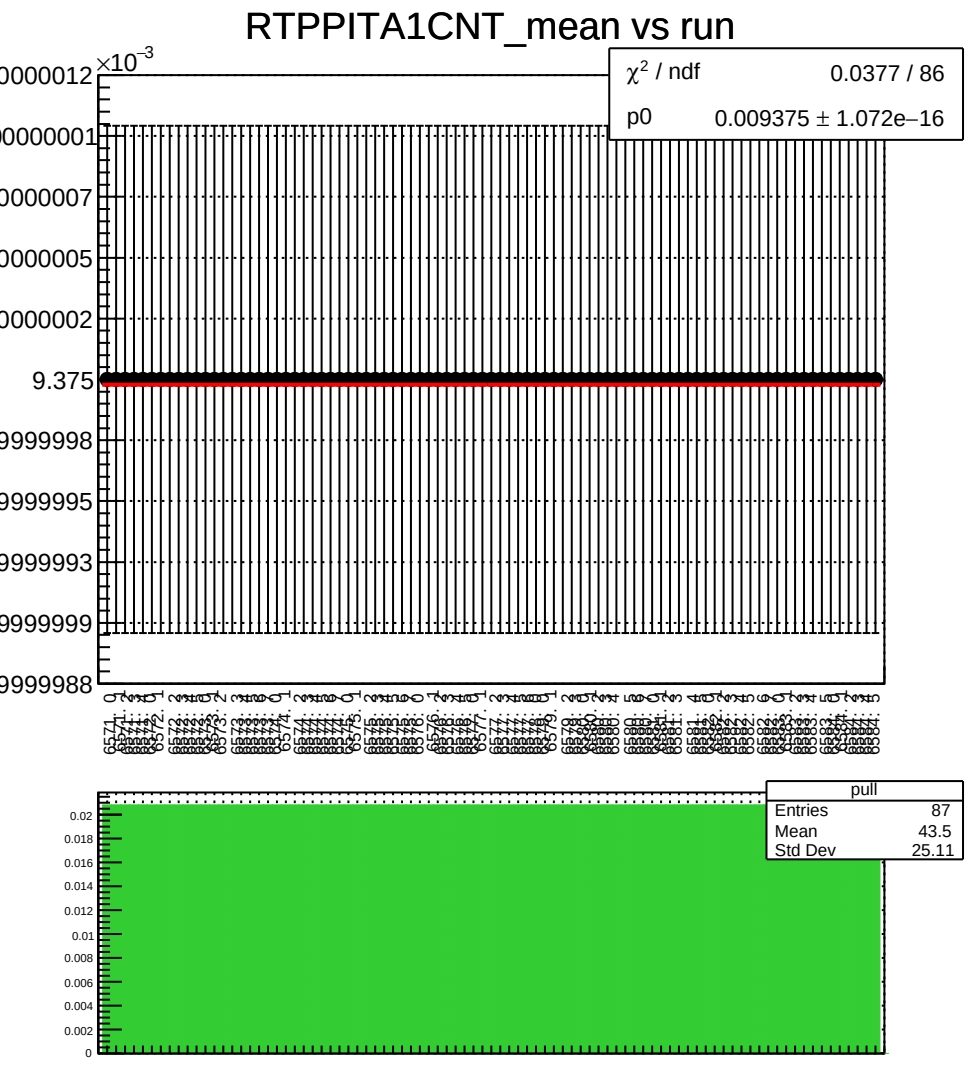

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

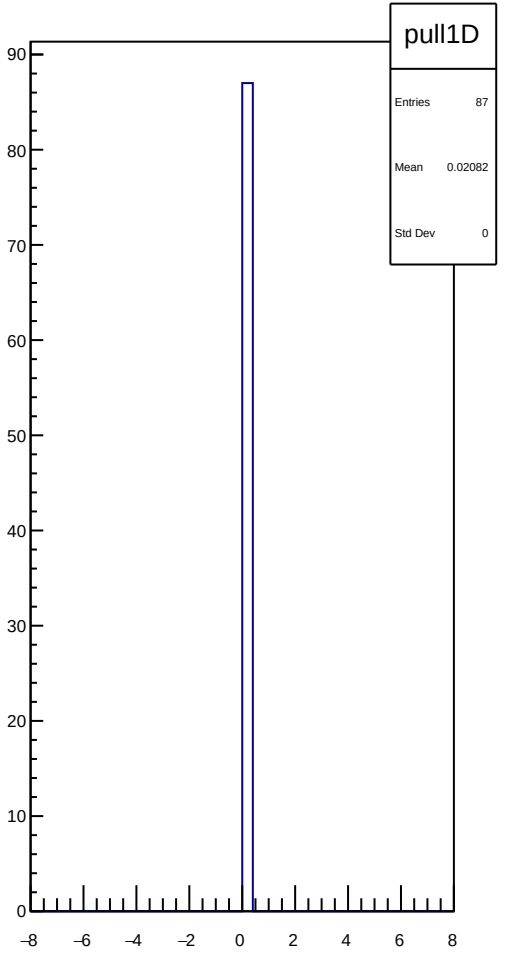

IGL1I00OD16_16_mean vs run
χ² / ndf 1098 / 86
p0 16.01± 1.072e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 87
Mean 43.5
Std Dev 25.11
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 87
Mean 3.553
Std Dev1.264e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

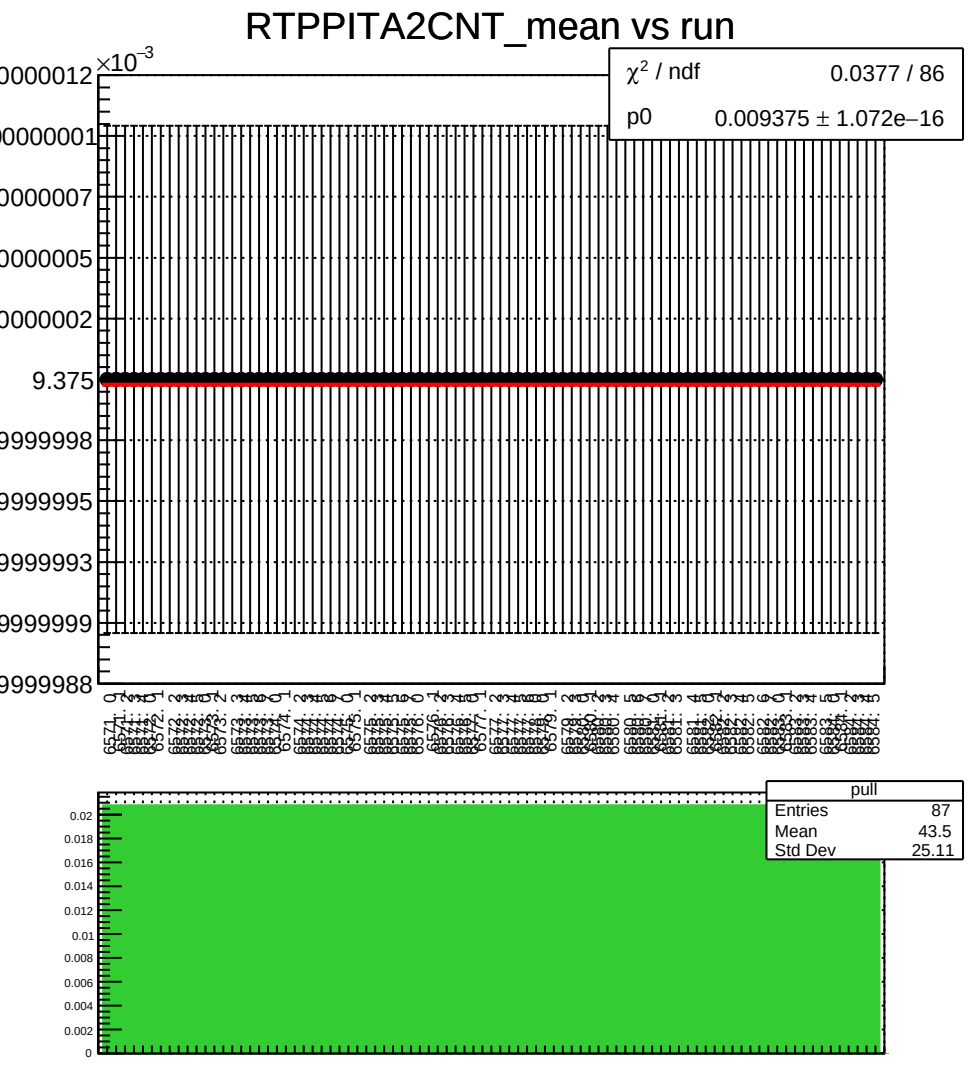

RTPAPOSUCNT_mean vs run
χ² / ndf 1.367e+28 / 86
p0 1146 ± 1.072e−16
1146.05
1146.04
1146.03
1146.02
1146.01
pull
Entries 87
Mean 7.373e+09
Std Dev 0
×10¹²
40
35
30
25
20
15
10
5
0
−5
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

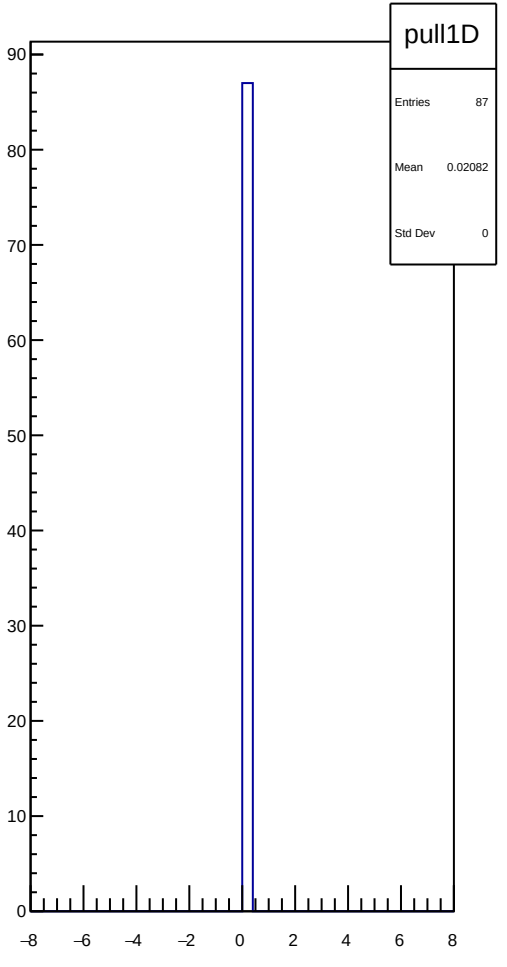

RTPAPOSVCNT_mean vs run
χ² / ndf 3.988e+26 / 86
p0 76.01± 1.072e−16
76.016
76.014
76.012
76.01
76.008
76.006
pull
Entries 87
Mean −9.155e+08
Std Dev 0
×10⁹
6000
4000
2000
0
−2000


pull1D
Entries 87
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 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
pull
Entries 87
Mean 43.5
Std Dev 25.11


pull1D
Entries 87
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
9.375
pull
Entries 87
Mean 43.5
Std Dev 25.11


pull1D
Entries 87
Mean 0.02082
Std Dev 0