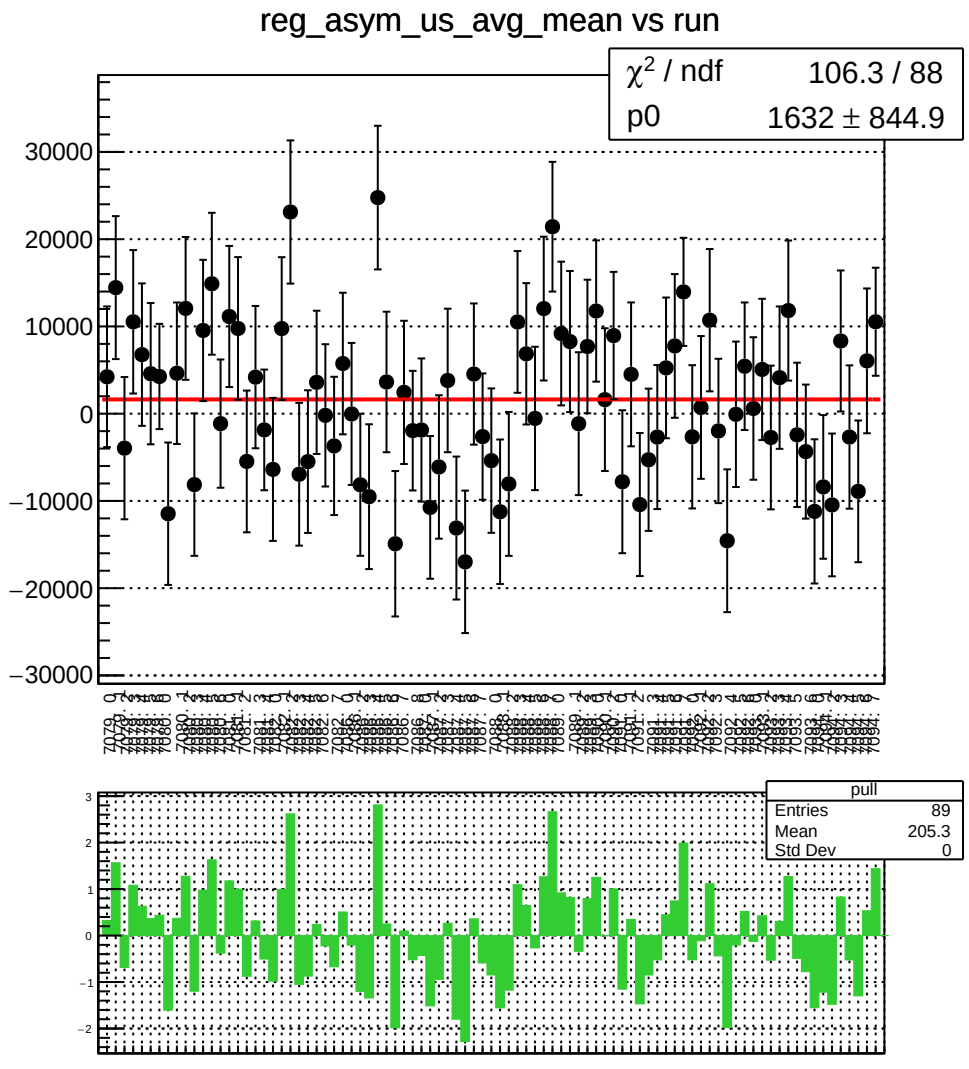
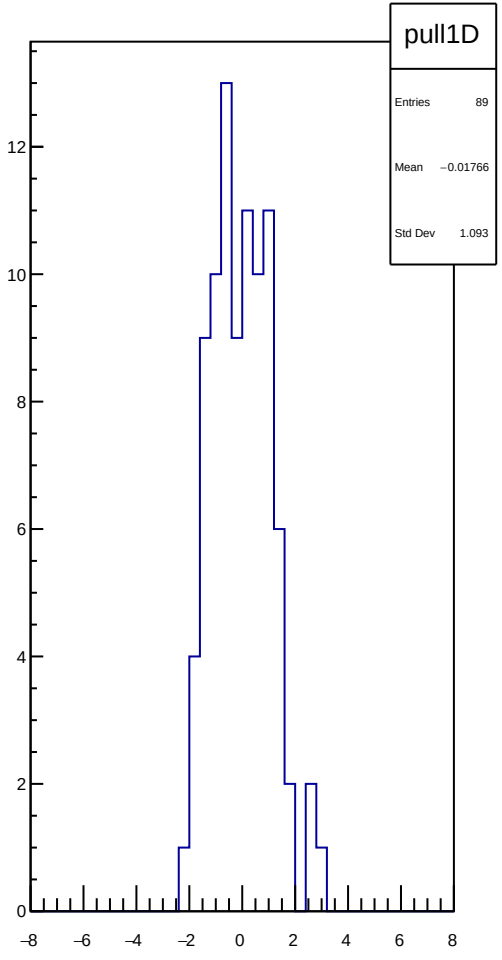
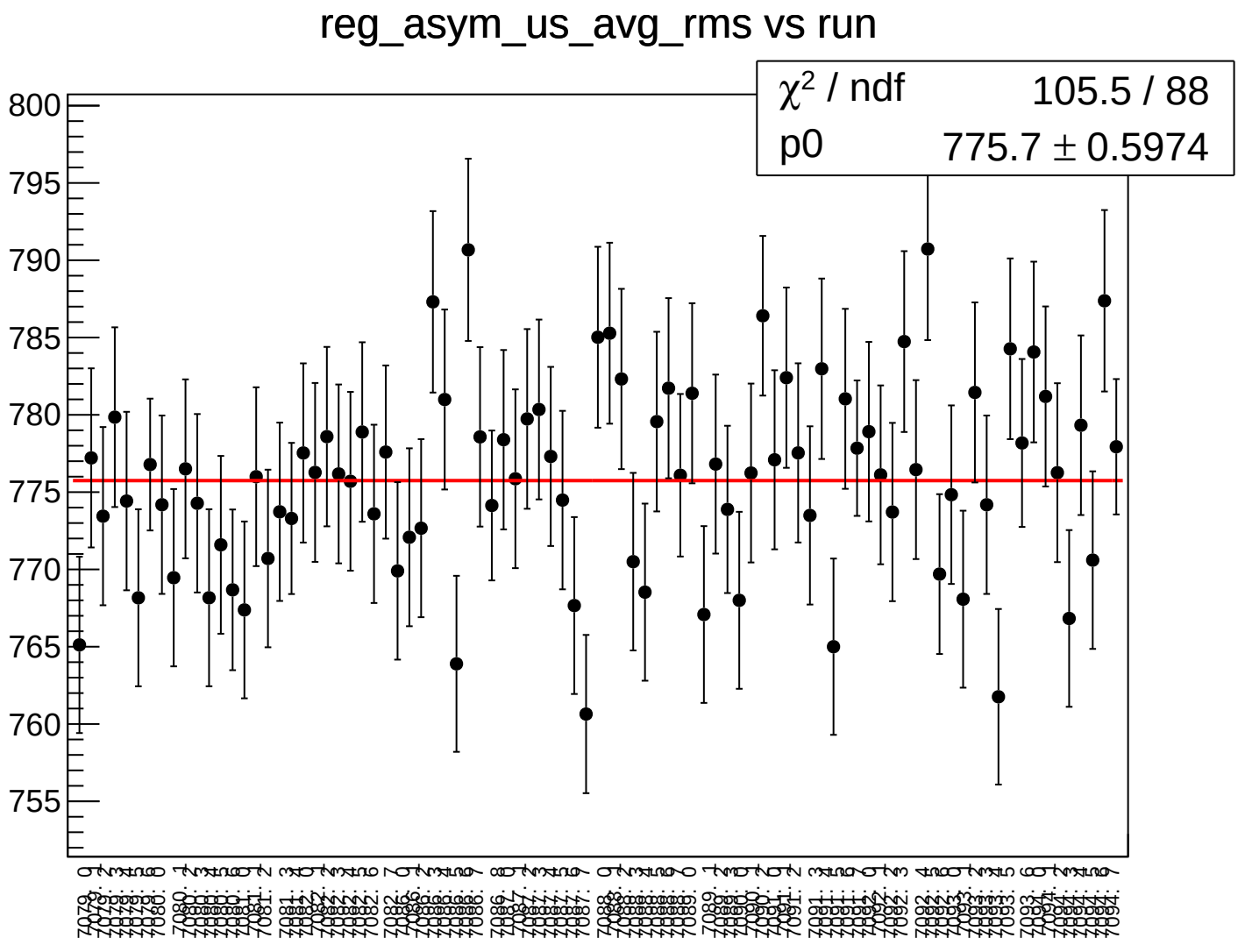
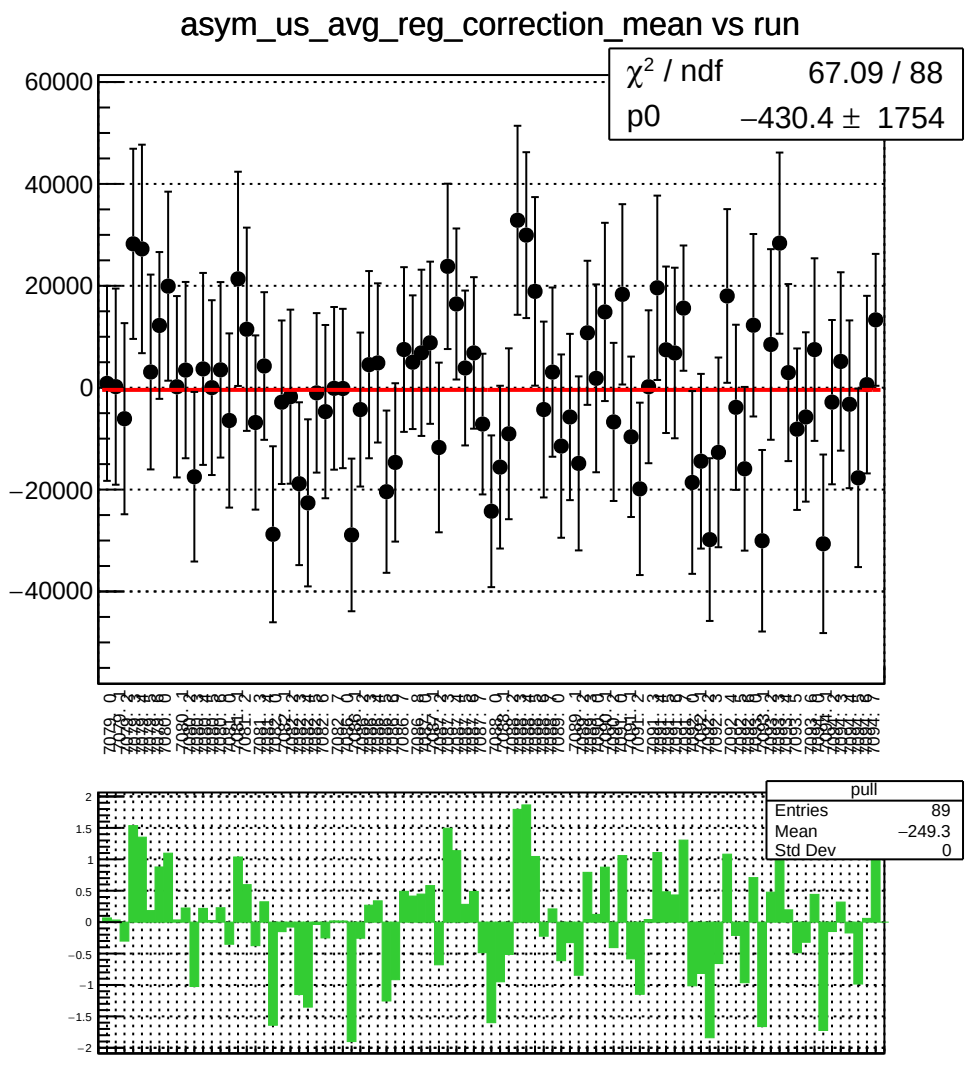
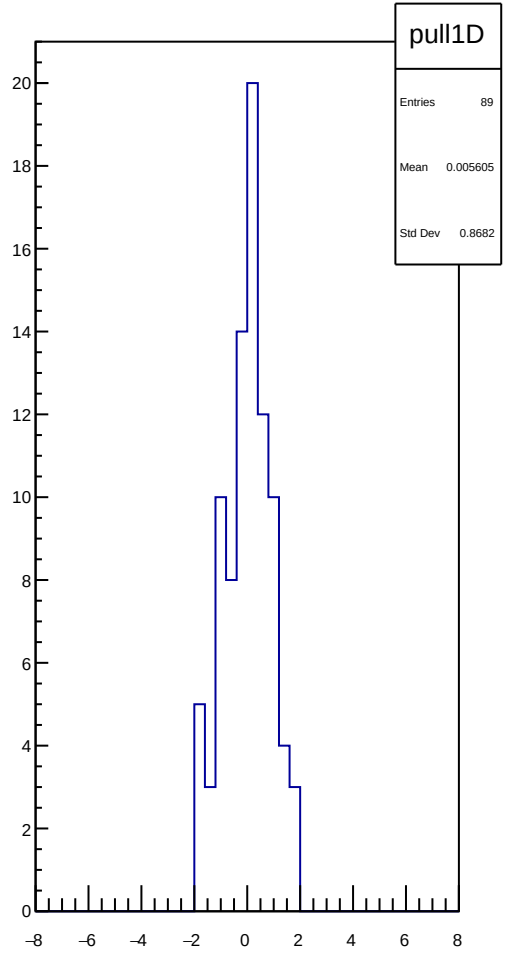
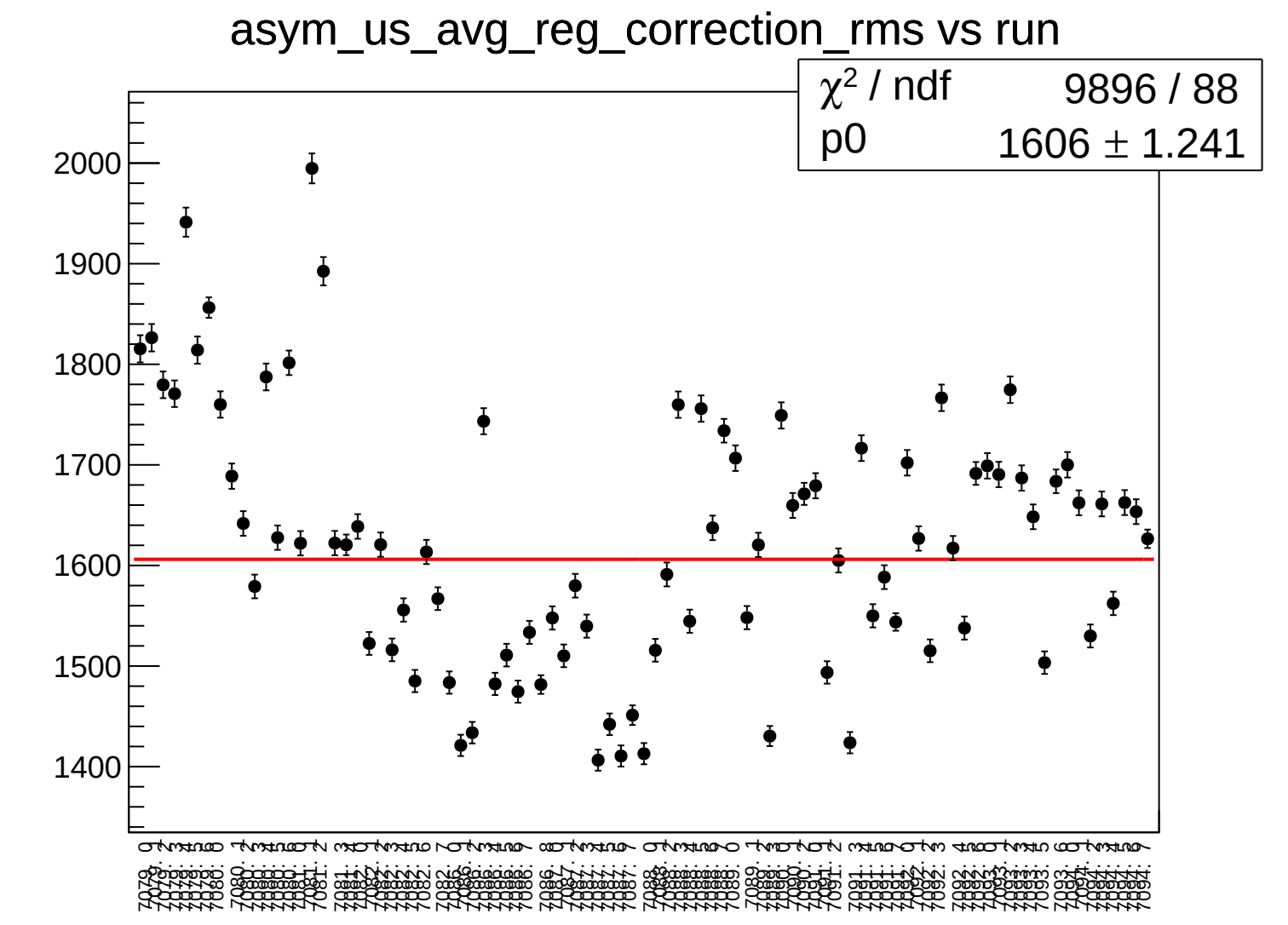

reg_asym_us_avg_mean vs run
χ² / ndf 106.3 / 88
p0 1632 ± 844.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 205.3
Std Dev 0
3
2
1
0
−1
−2

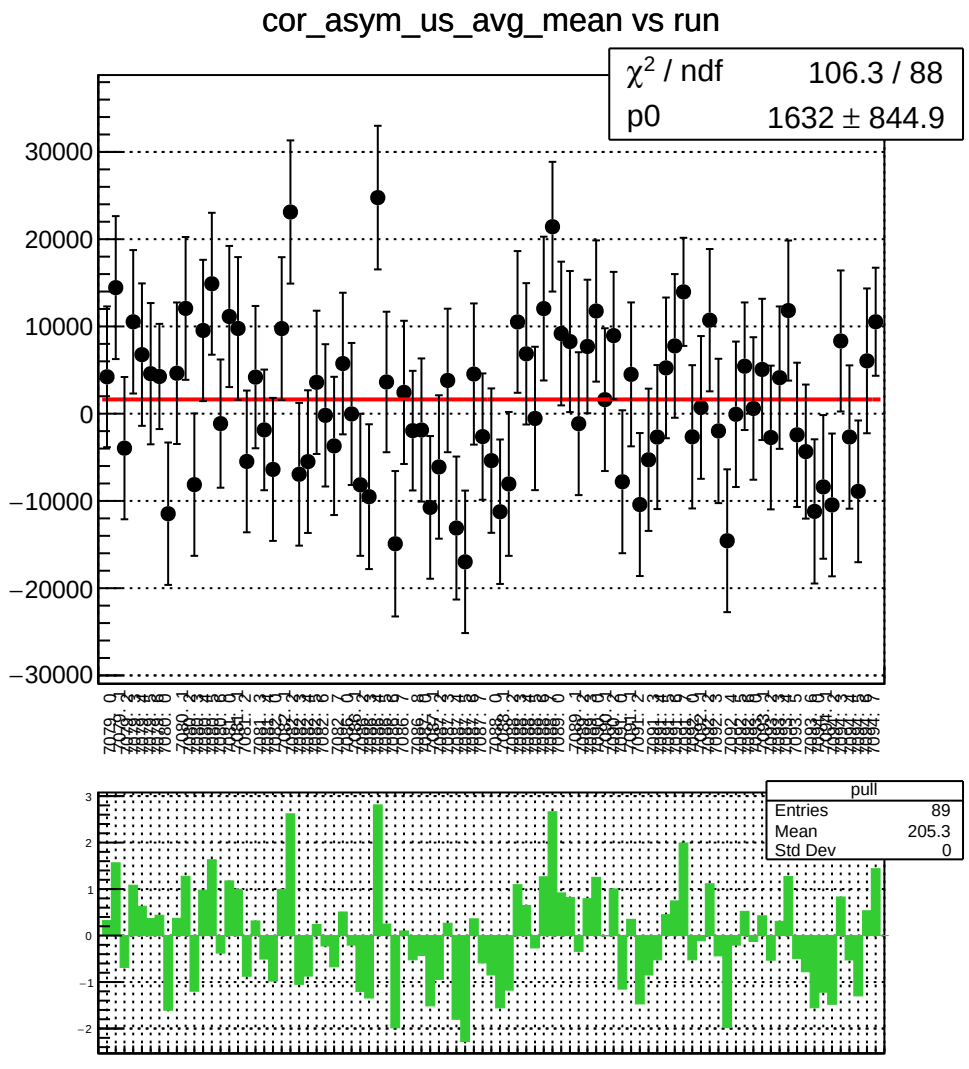

pull1D
Entries 89
Mean −0.01766
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

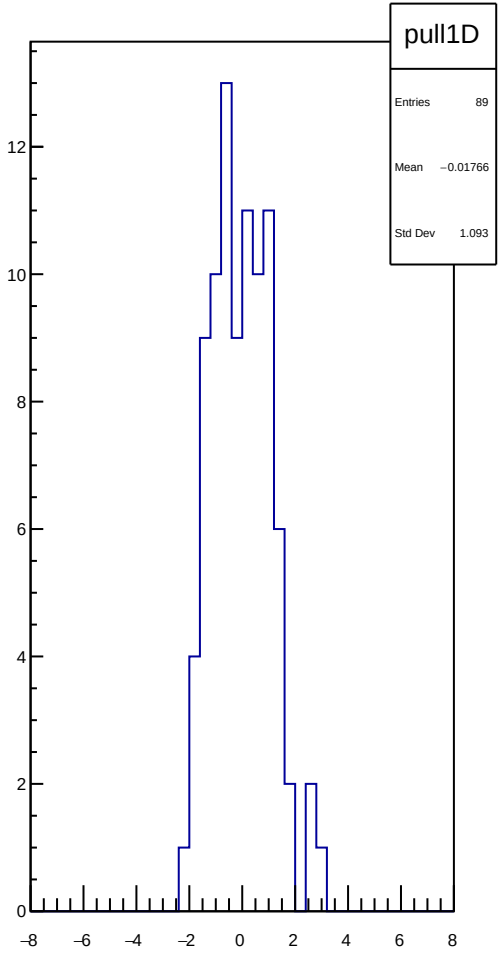

reg_asym_us_avg_rms vs run
χ² / ndf 105.5 / 88
p0 775.7 ± 0.5974
800
795
790
785
780
775
770
765
760
755


asym_us_avg_reg_correction_mean vs run
χ² / ndf 67.09 / 88
p0 −430.4 ± 1754
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −249.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean 0.005605
Std Dev 0.8682
20
18
16
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 9896 / 88
p0 1606 ± 1.241
2000
1900
1800
1700
1600
1500
1400


cor_asym_us_avg_mean vs run
χ² / ndf 106.3 / 88
p0 1632 ± 844.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 205.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.01766
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
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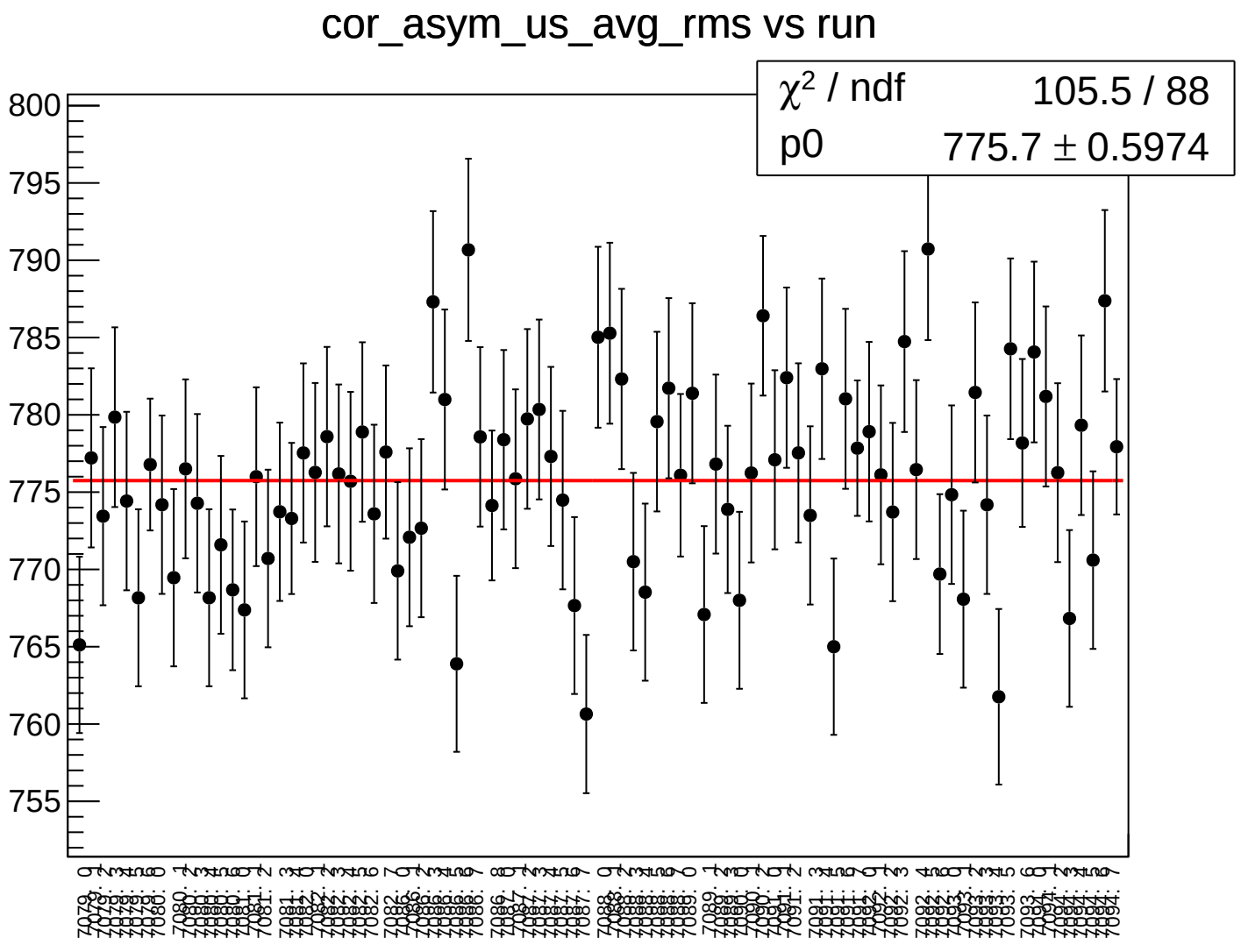
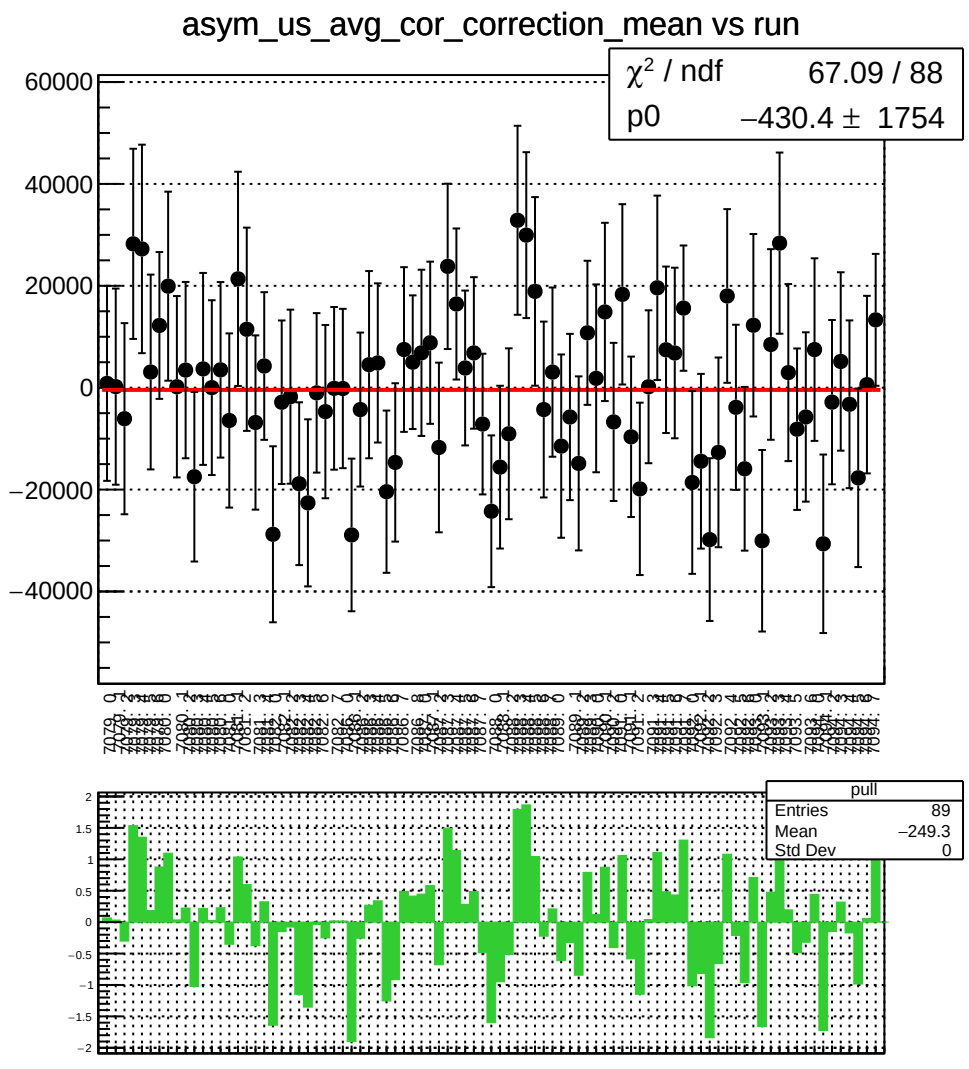
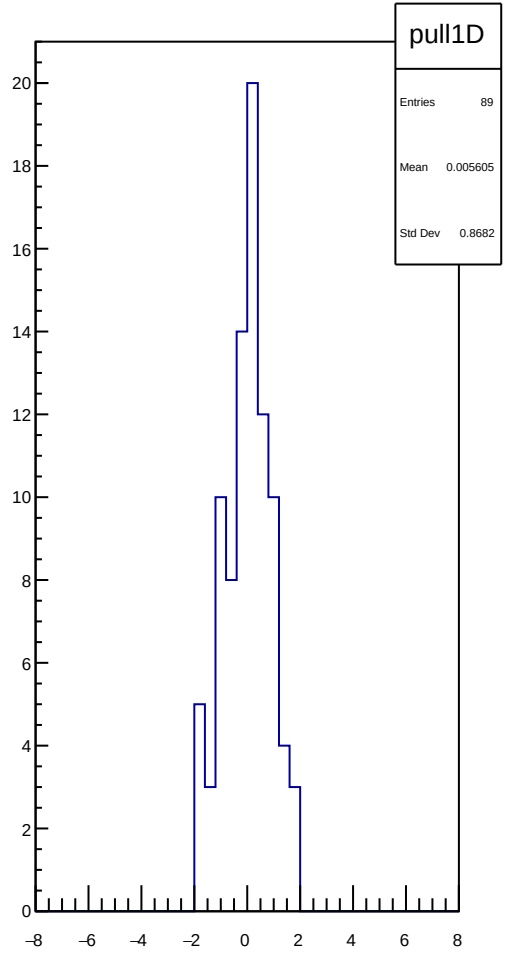
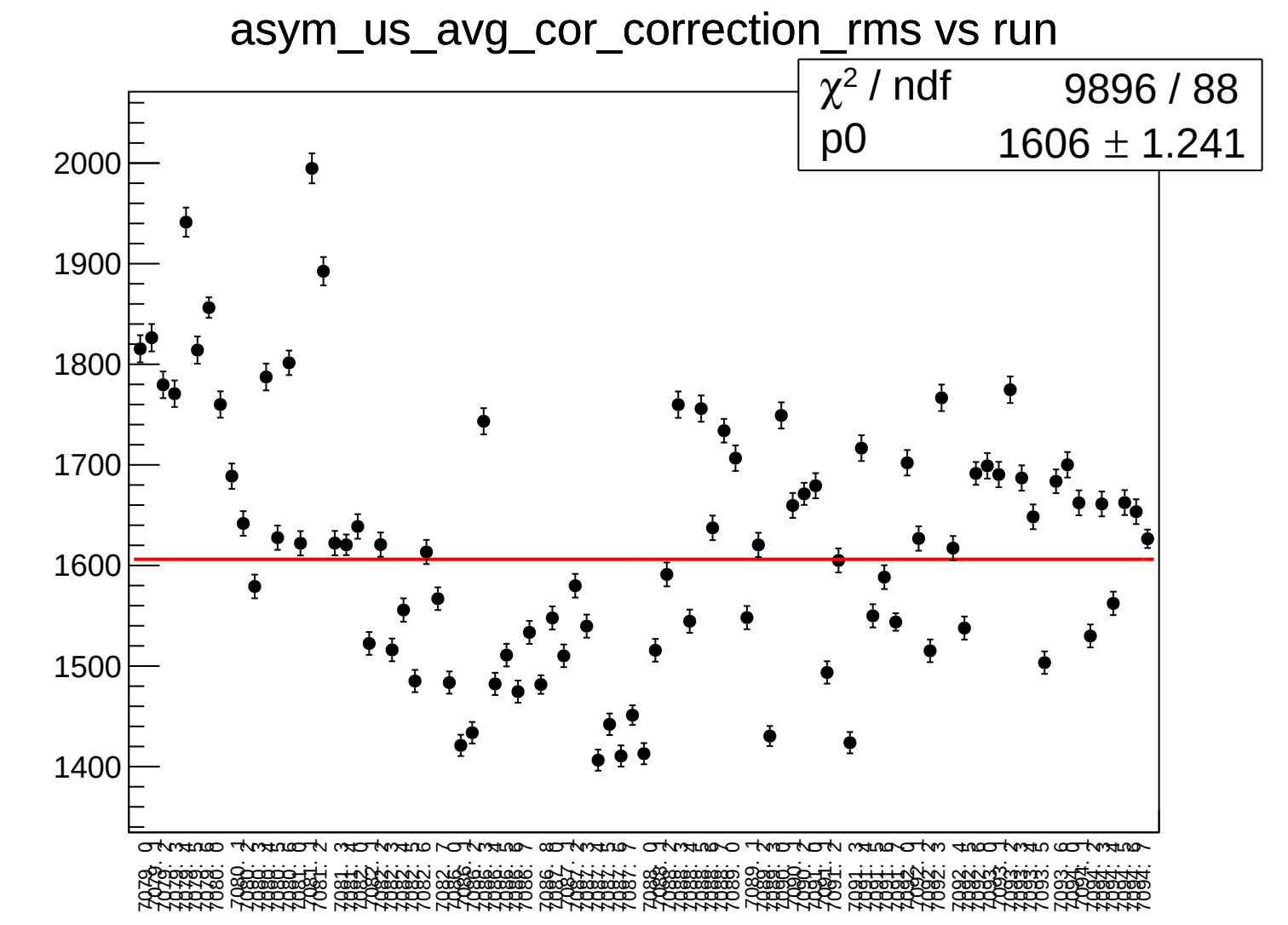
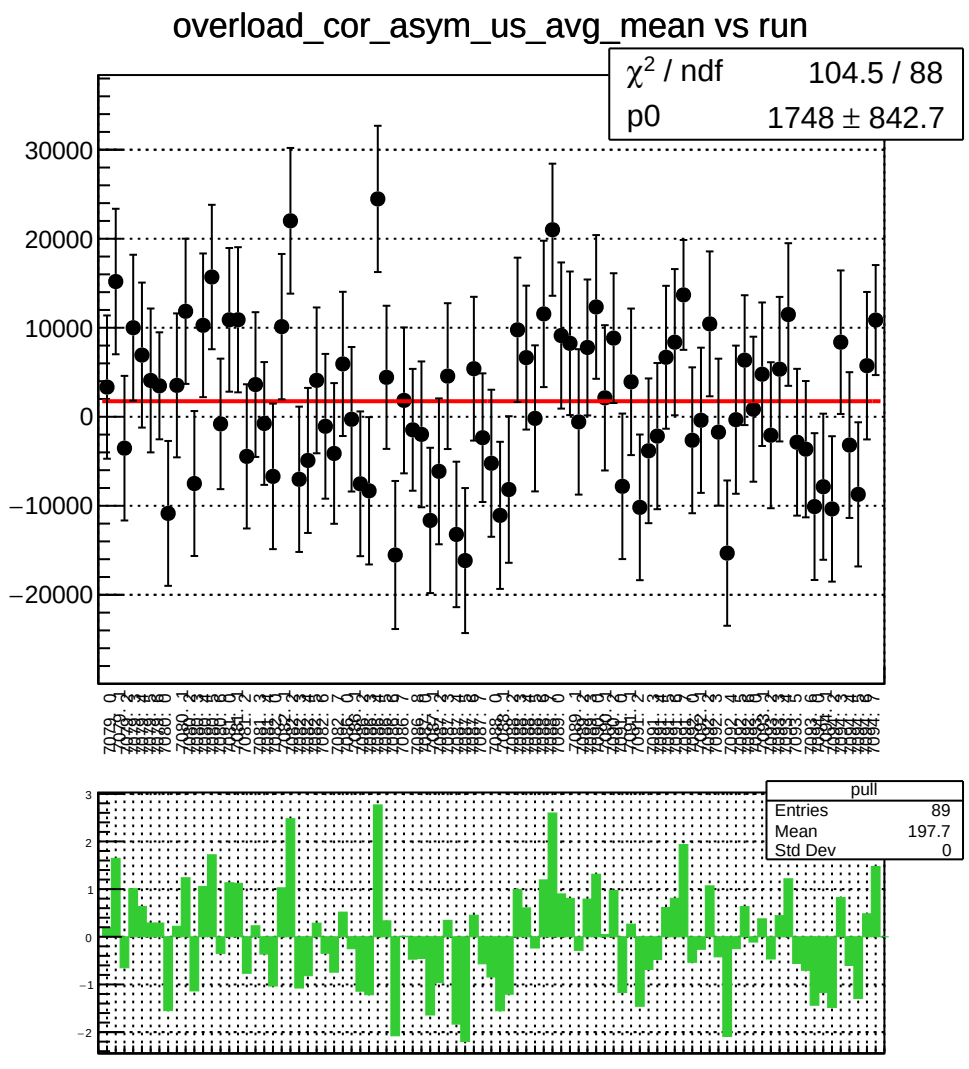
0
2
4
6
8

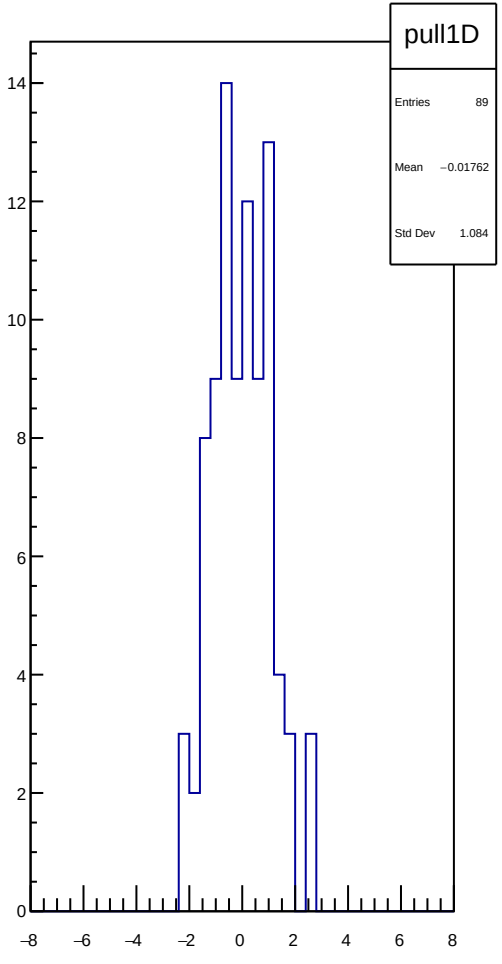

cor_asym_us_avg_rms vs run
χ² / ndf 105.5 / 88
p0 775.7 ± 0.5974
800
795
790
785
780
775
770
765
760
755

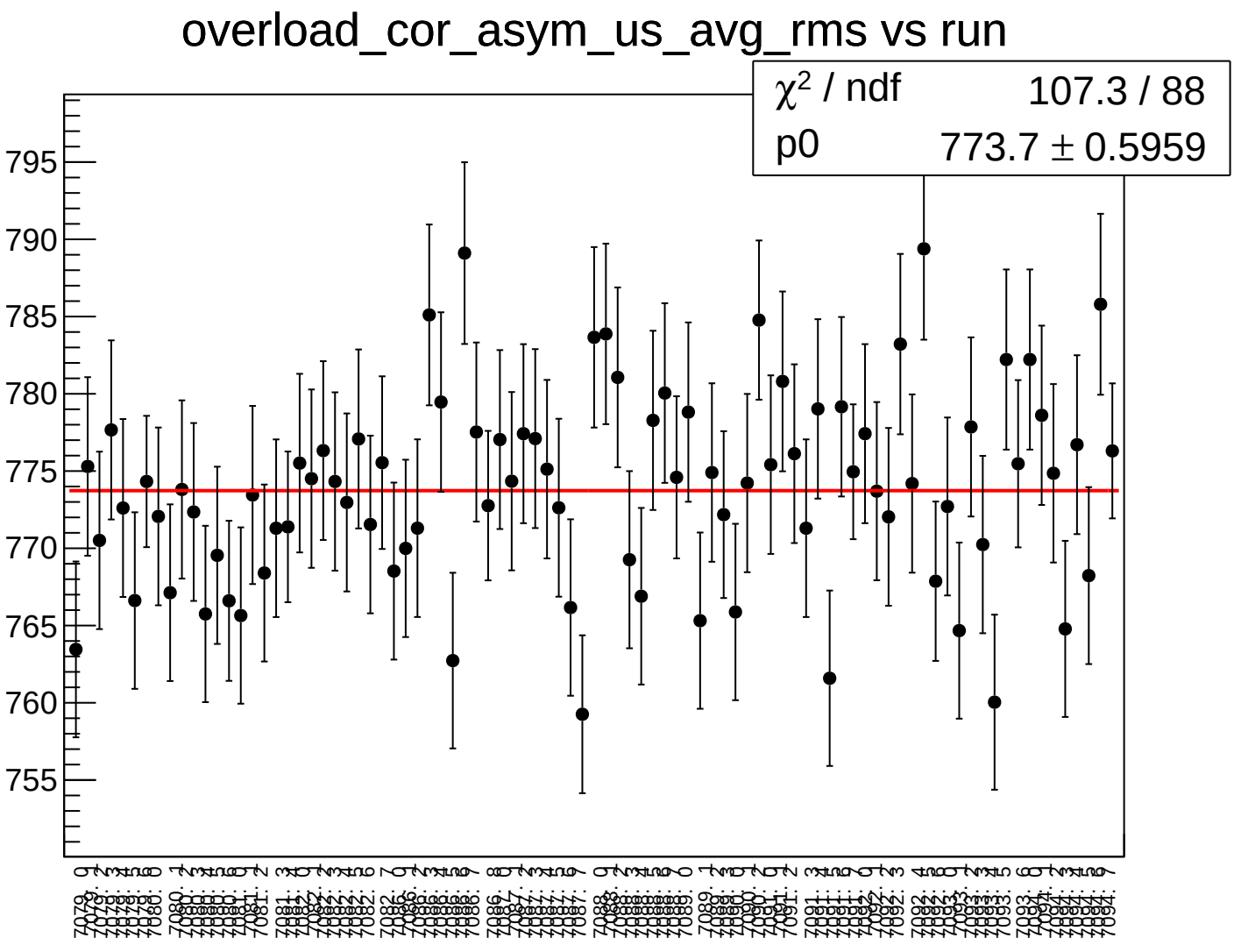

asym_us_avg_cor_correction_mean vs run
χ² / ndf 67.09 / 88
p0 −430.4 ± 1754
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −249.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

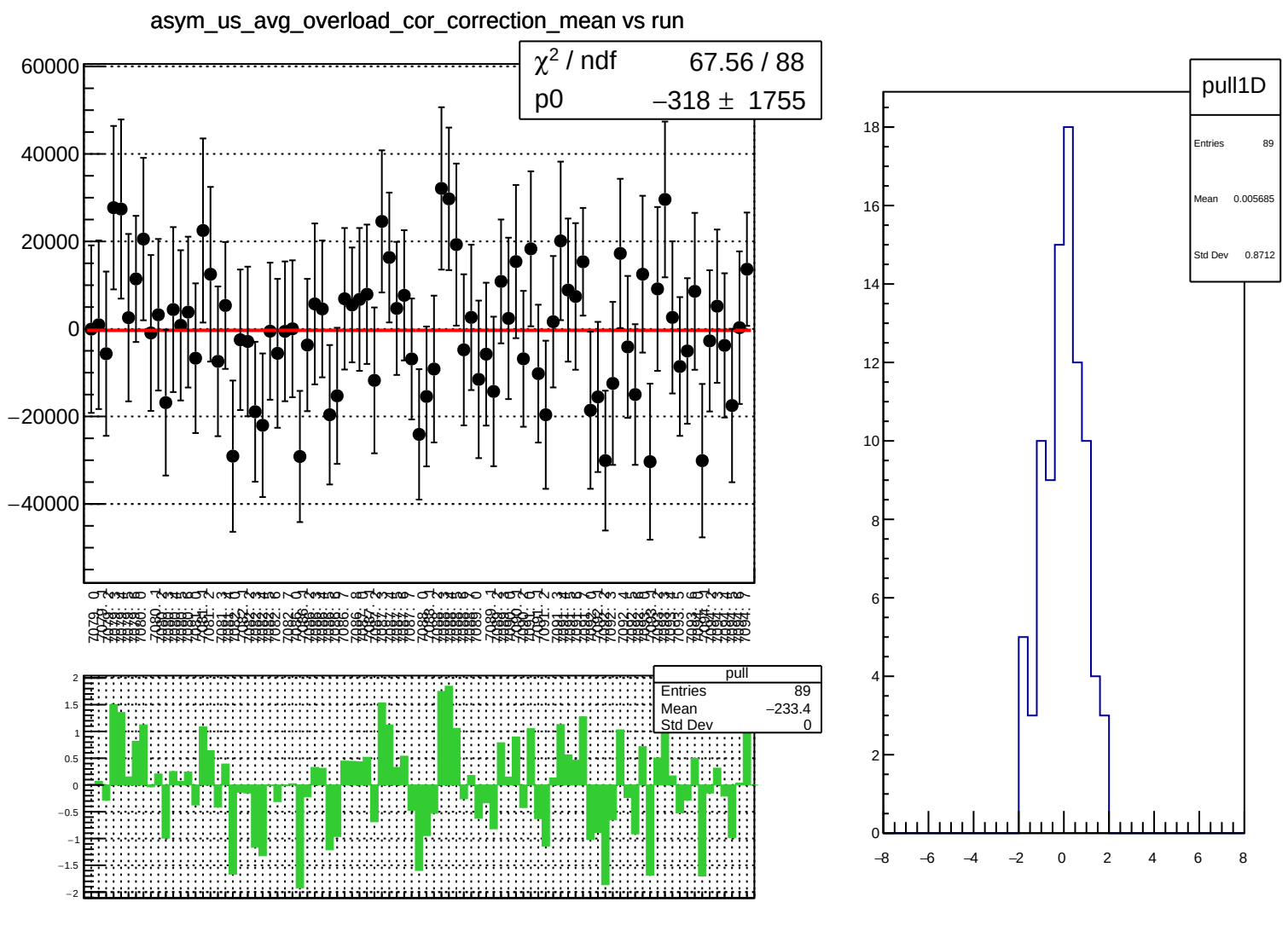

pull1D
Entries 89
Mean 0.005605
Std Dev 0.8682
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

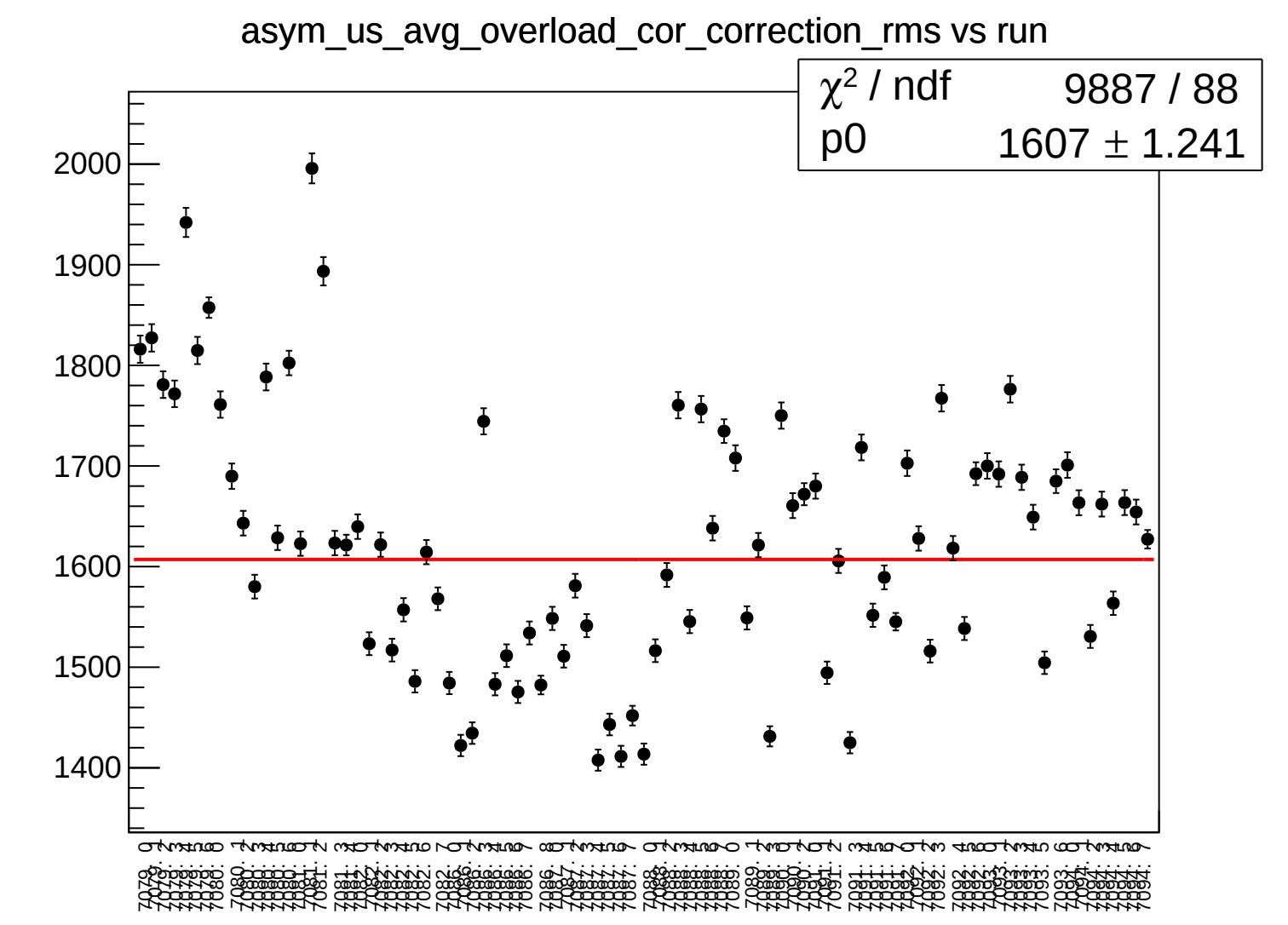

asym_us_avg_cor_correction_rms vs run
χ² / ndf 9896 / 88
p0 1606 ± 1.241
2000
1900
1800
1700
1600
1500
1400

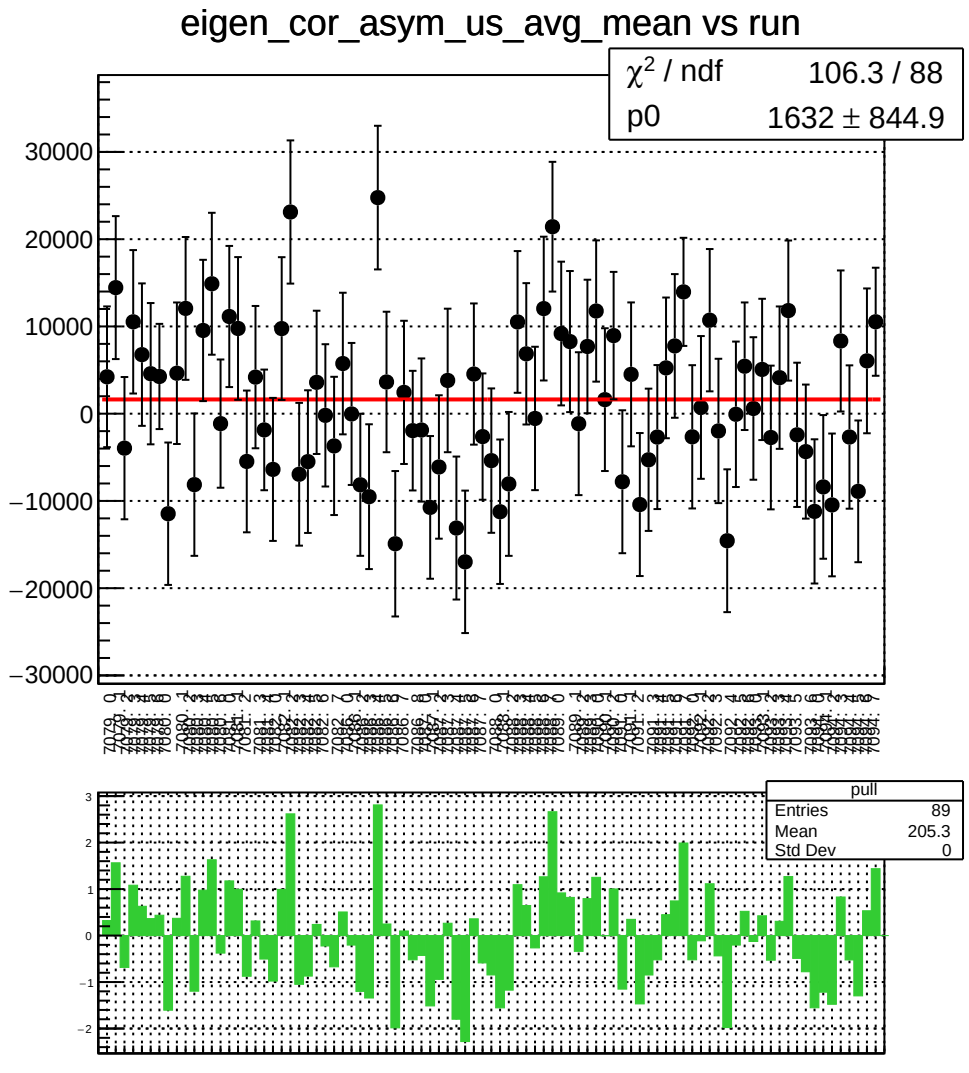

overload_cor_asym_us_avg_mean vs run
χ² / ndf 104.5 / 88
p0 1748 ± 842.7
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 197.7
Std Dev 0
3
2
1
0
−1
−2

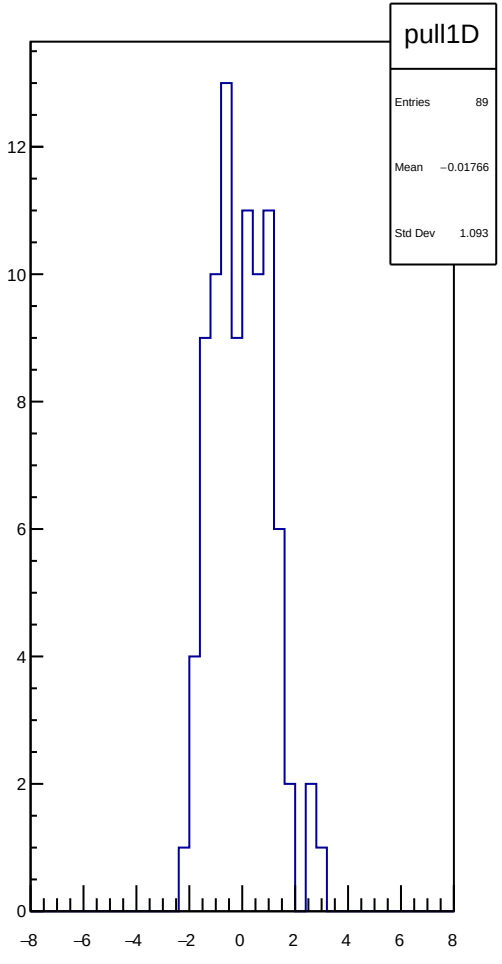

pull1D
Entries 89
Mean −0.01762
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

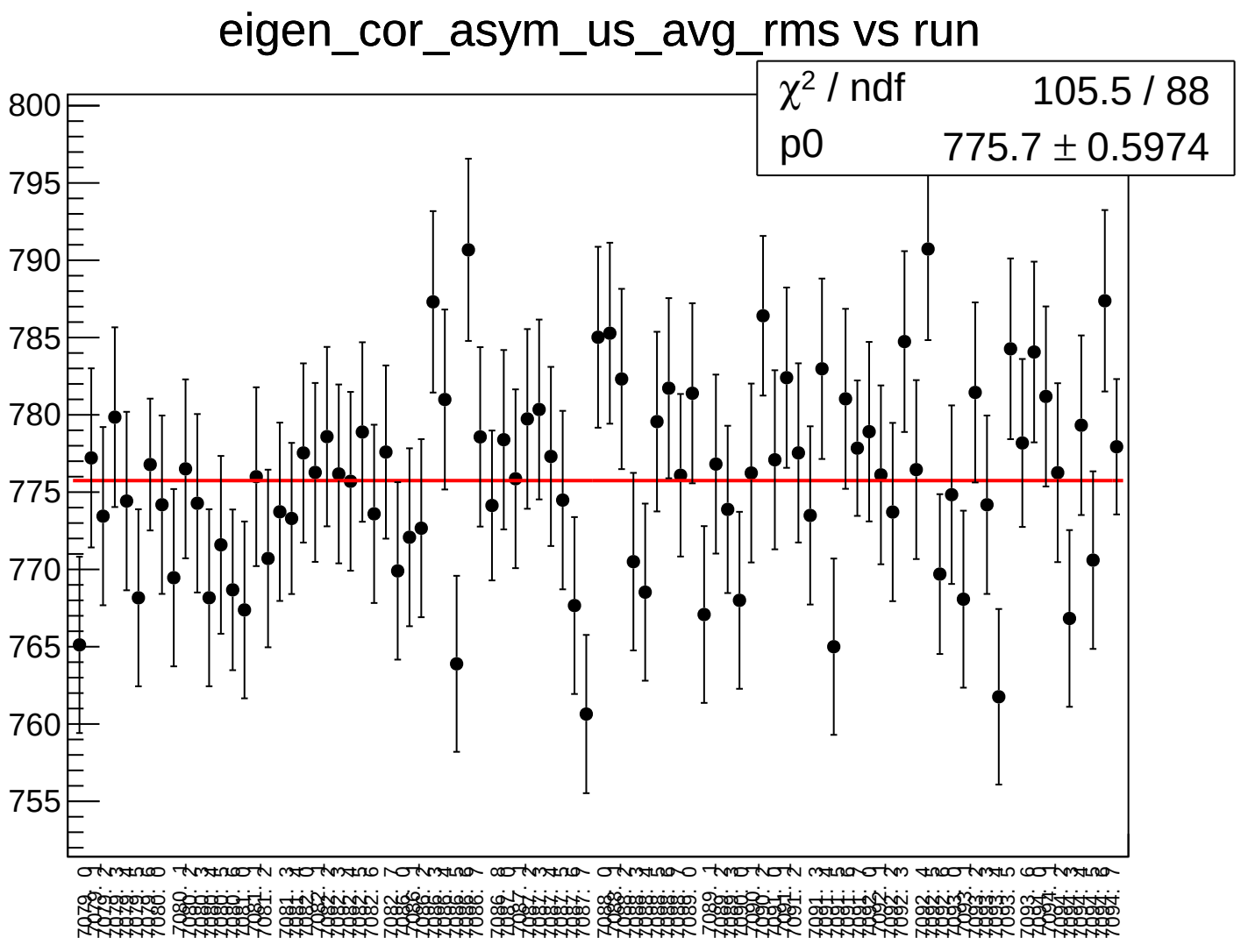

overload_cor_asym_us_avg_rms vs run
χ² / ndf 107.3 / 88
p0 773.7 ± 0.5959
795
790
785
780
775
770
765
760
755

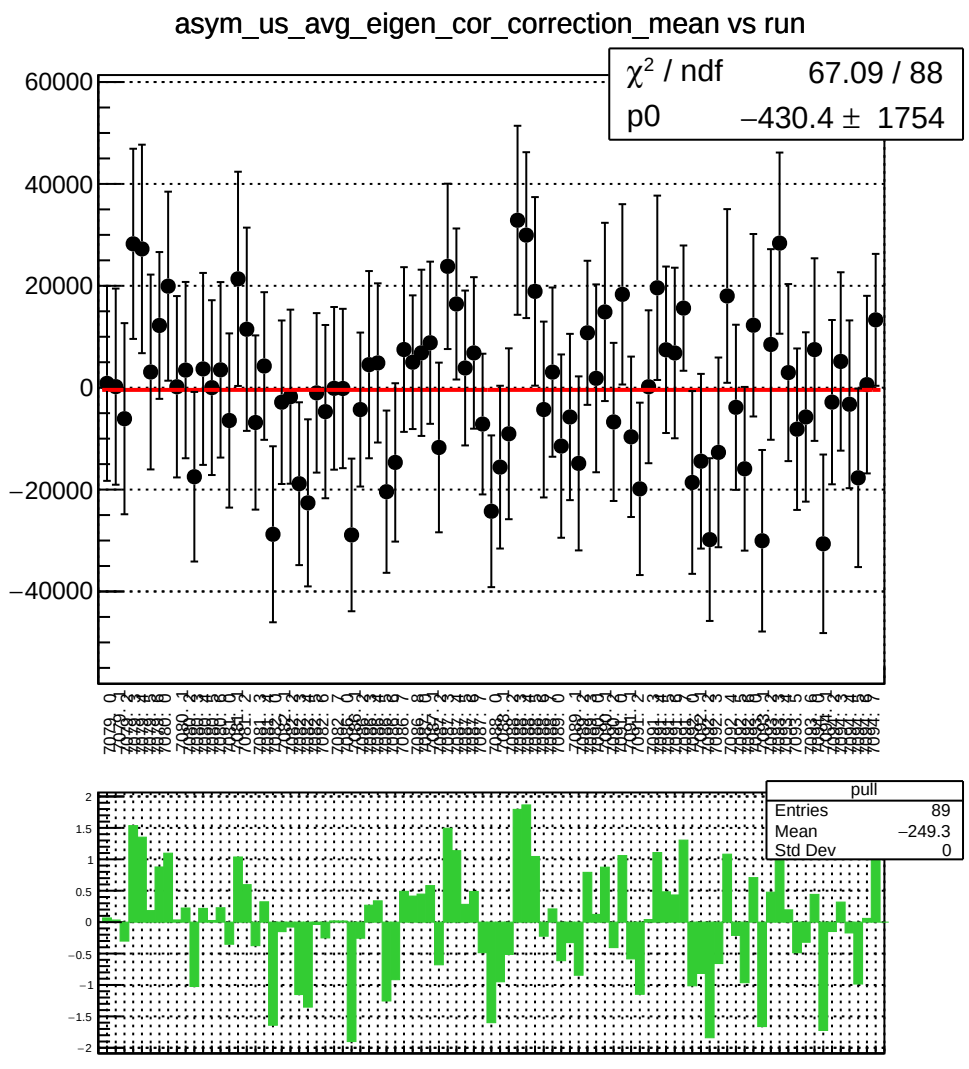

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 67.56 / 88
p0 −318 ± 1755
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −233.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.005685
Std Dev 0.8712
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

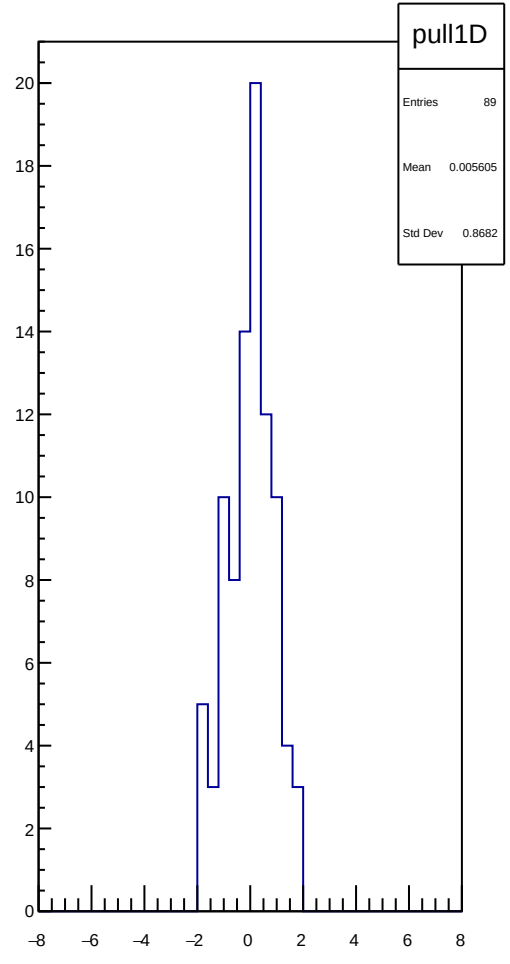

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 9887 / 88
p0 1607 ± 1.241
2000
1900
1800
1700
1600
1500
1400

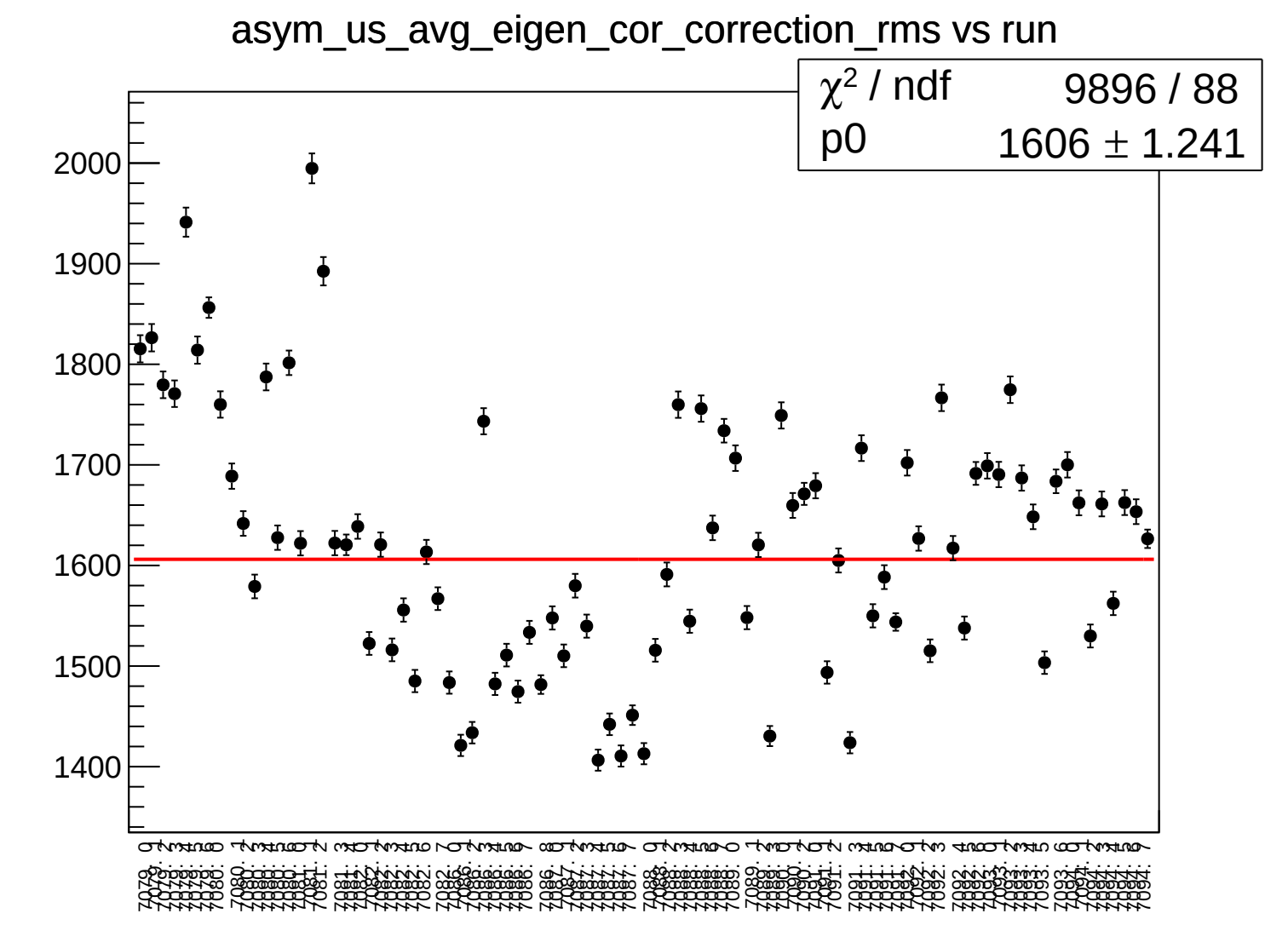

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 106.3 / 88
p0 1632 ± 844.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 205.3
Std Dev 0
3
2
1
0
−1
−2

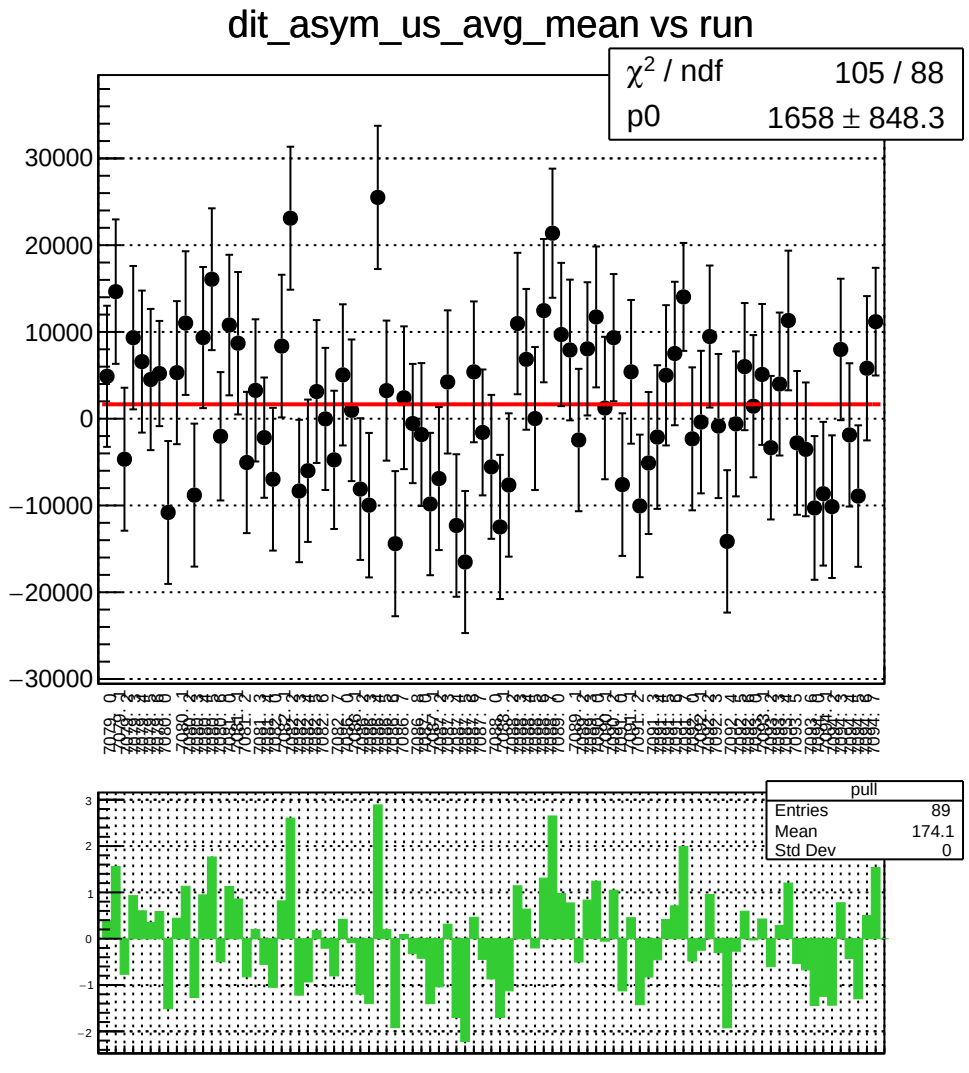

pull1D
Entries 89
Mean −0.01766
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

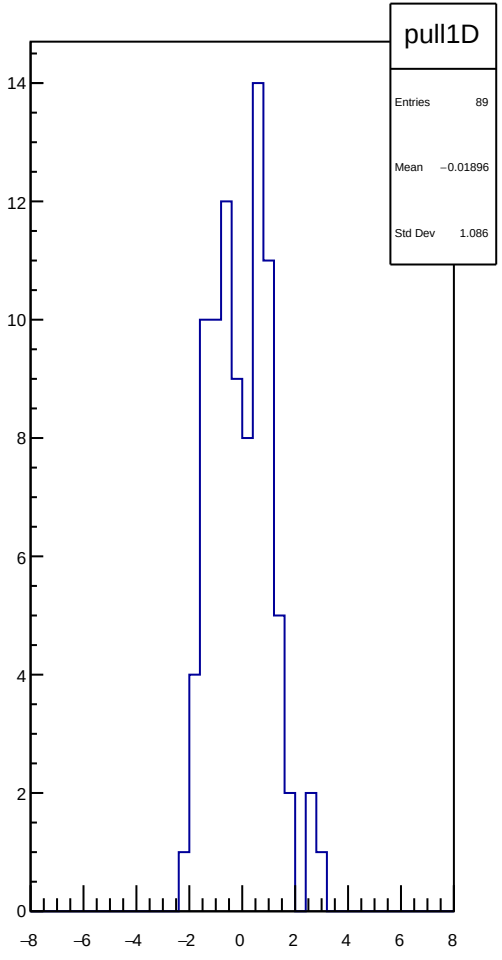

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 105.5 / 88
p0 775.7 ± 0.5974
800
795
790
785
780
775
770
765
760
755

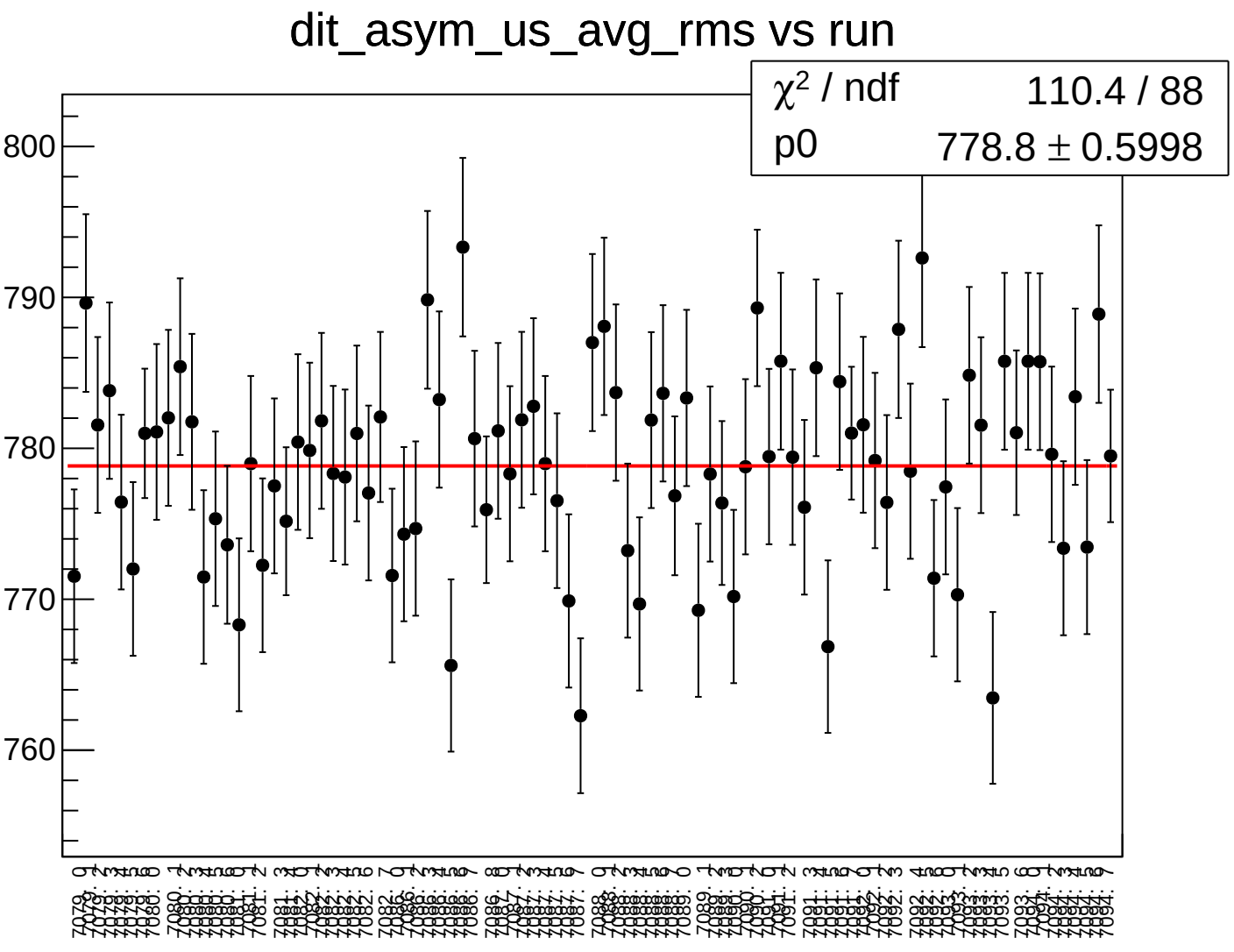

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 67.09 / 88
p0 −430.4 ± 1754
pull
Entries 89
Mean −249.3
Std Dev 0

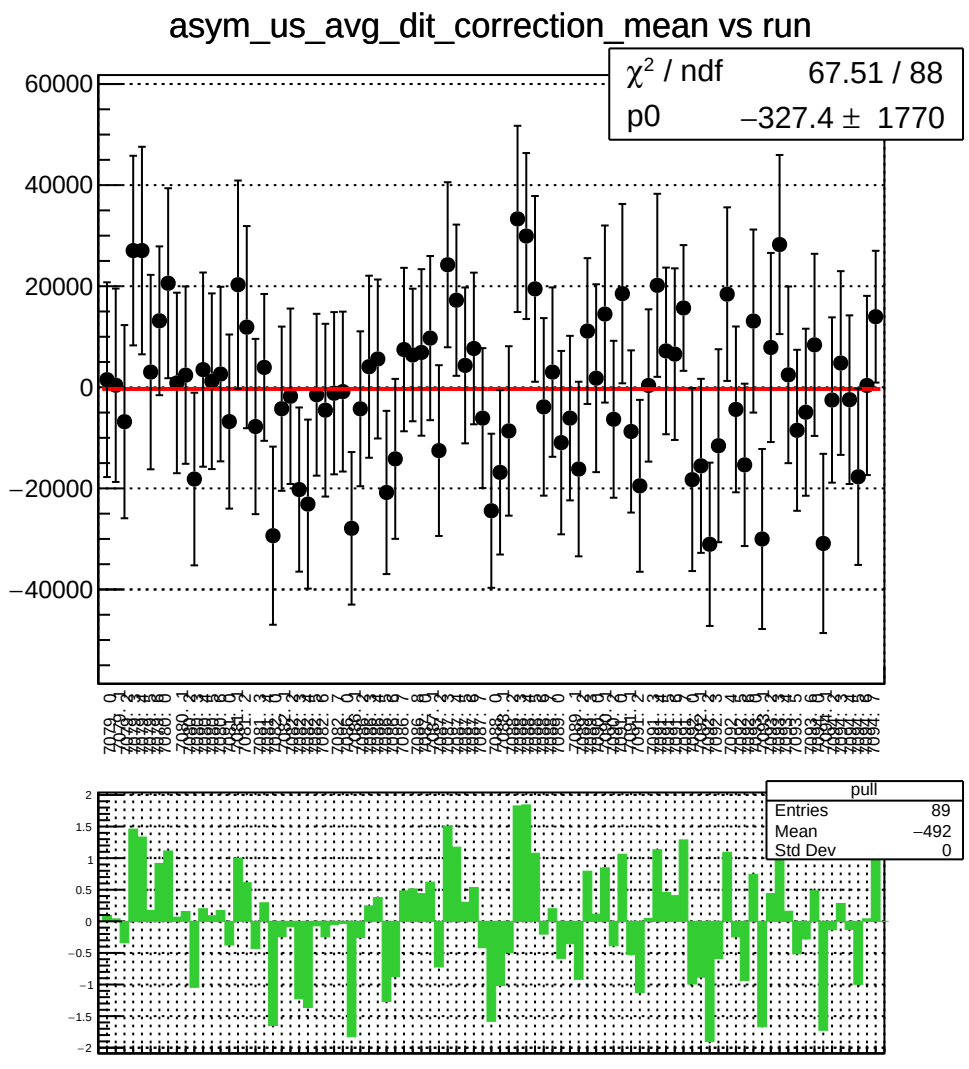

pull1D
Entries 89
Mean 0.005605
Std Dev 0.8682

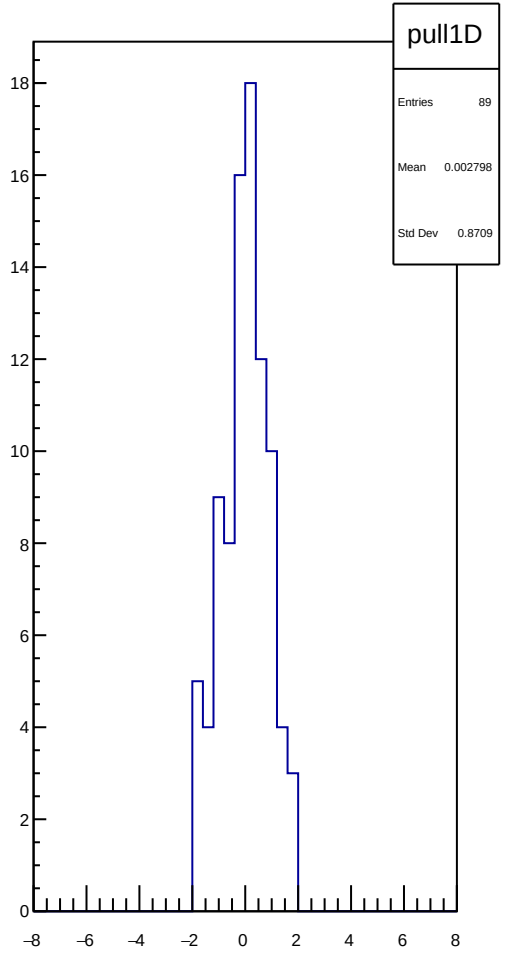

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 9896 / 88
p0 1606 ± 1.241
2000
1900
1800
1700
1600
1500
1400

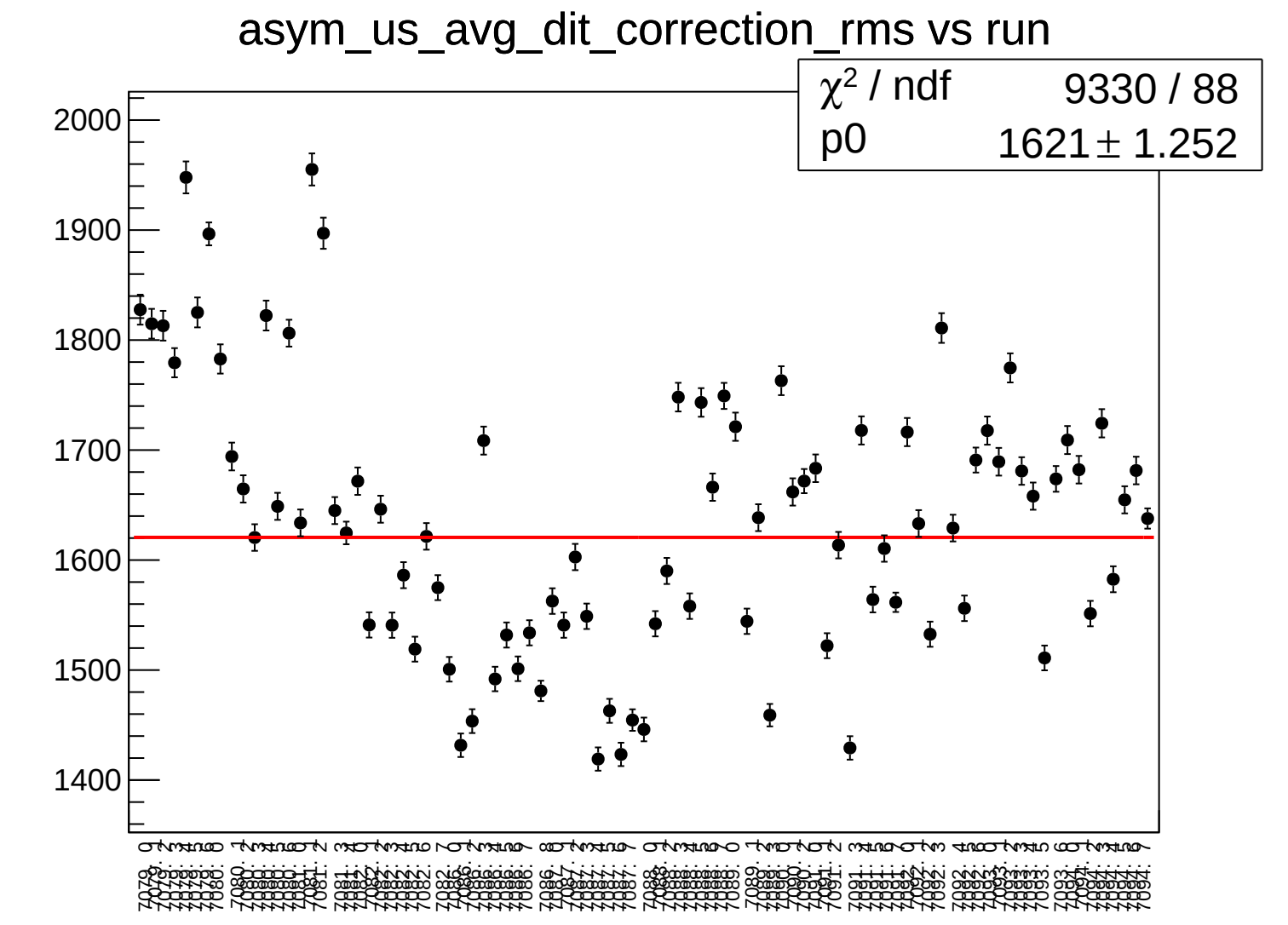

dit_asym_us_avg_mean vs run
χ² / ndf 105 / 88
p0 1658 ± 848.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 174.1
Std Dev 0
3
2
1
0
−1
−2

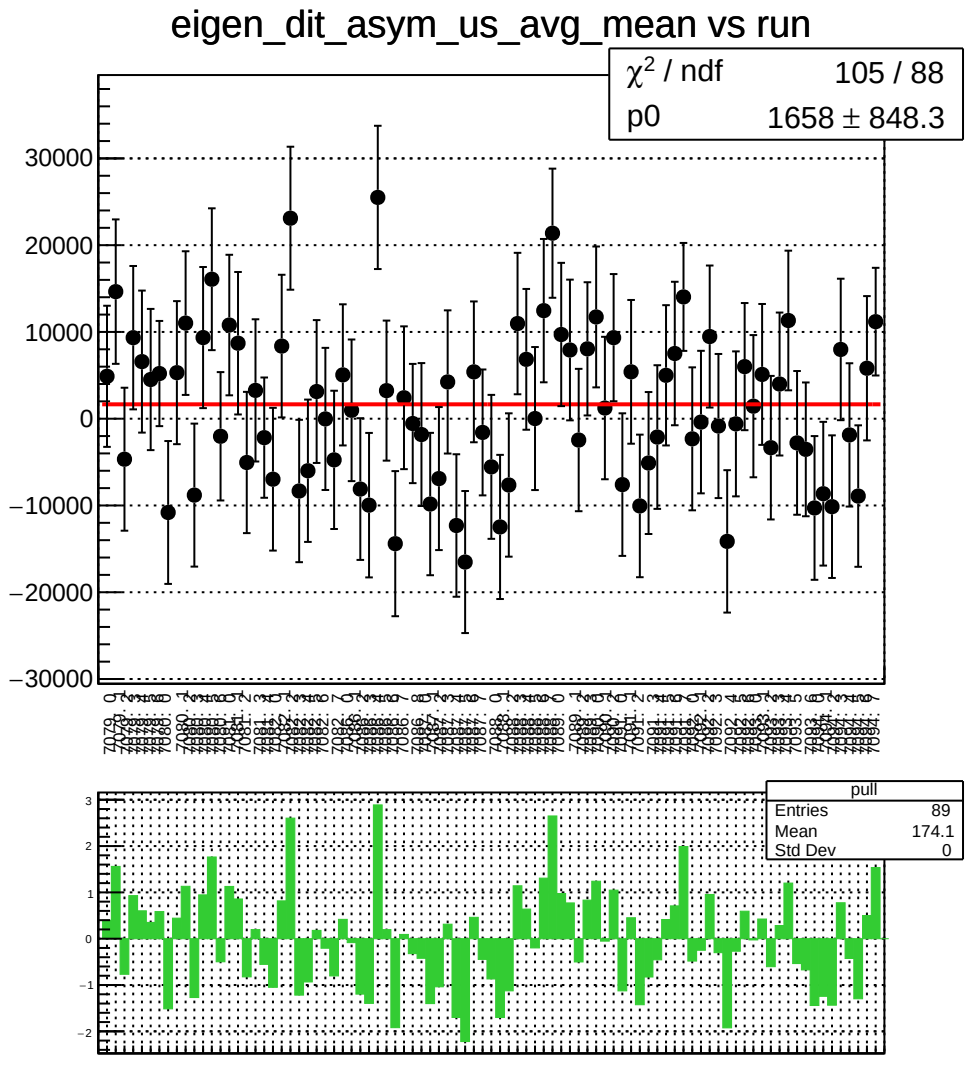

pull1D
Entries 89
Mean −0.01896
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

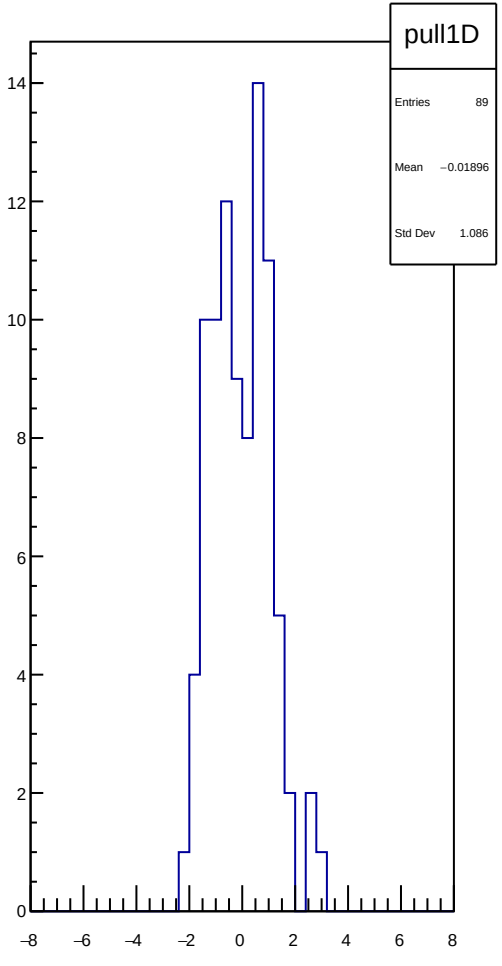

dit_asym_us_avg_rms vs run
χ² / ndf 110.4 / 88
p0 778.8 ± 0.5998
800
790
780
770
760

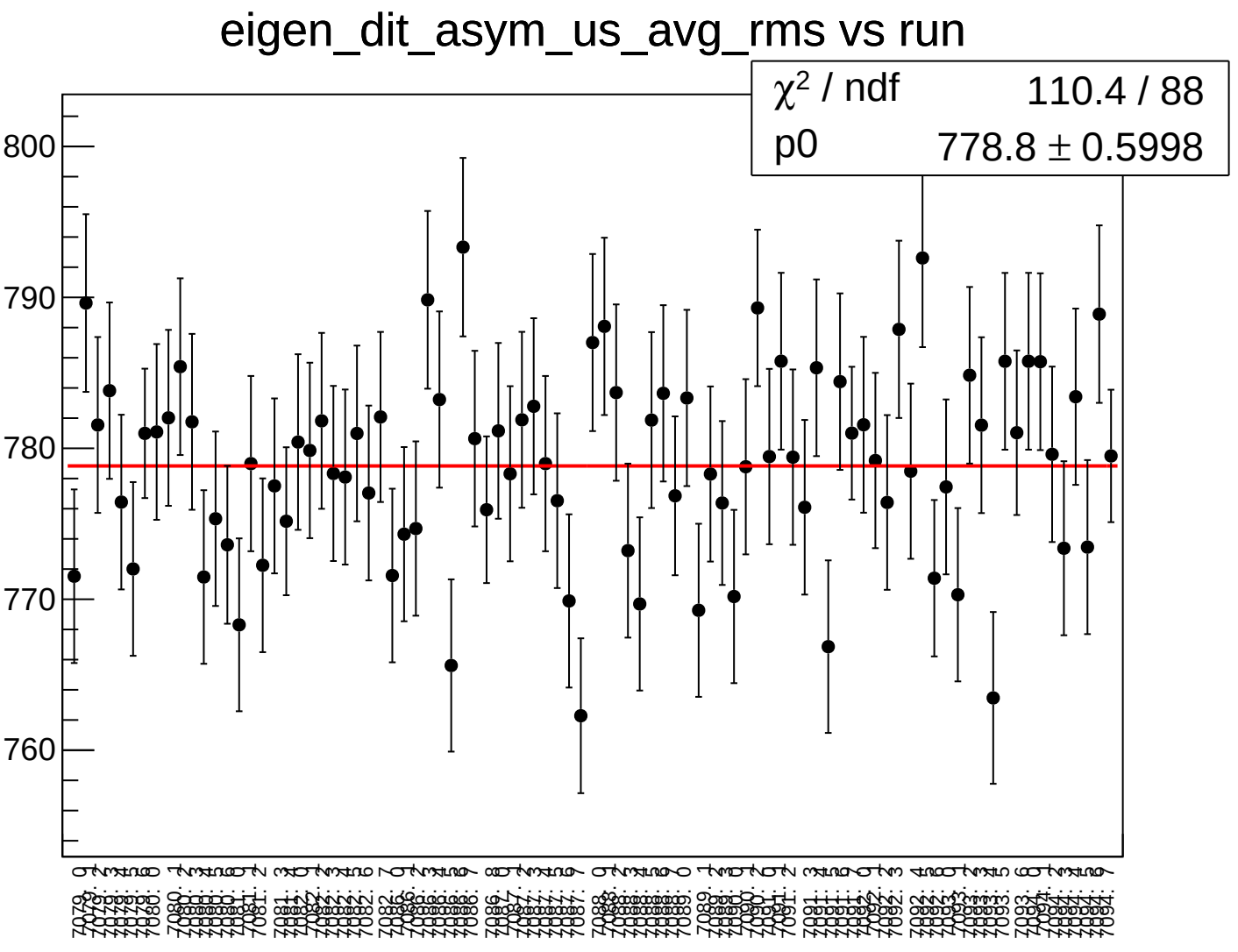

asym_us_avg_dit_correction_mean vs run
χ² / ndf 67.51 / 88
p0 −327.4 ± 1770
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −492
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

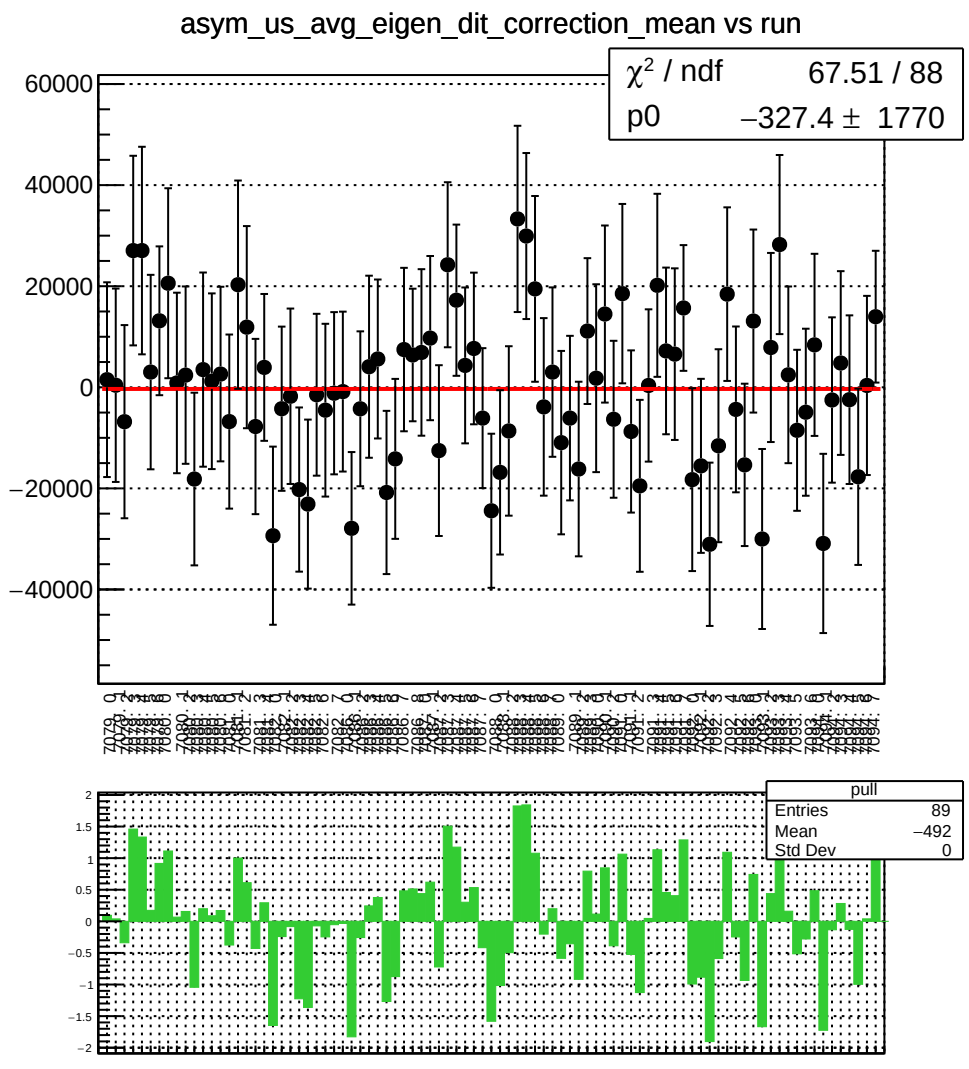

pull1D
Entries 89
Mean 0.002798
Std Dev 0.8709
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

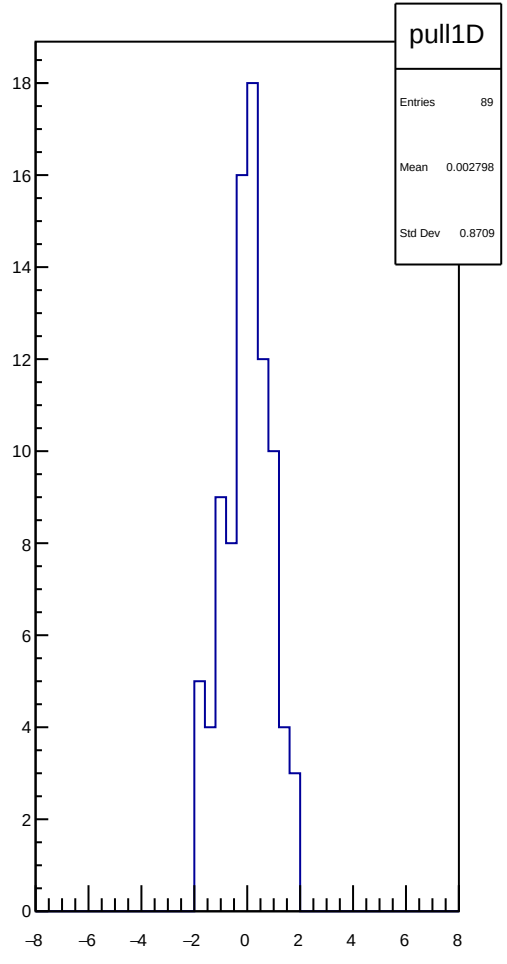

asym_us_avg_dit_correction_rms vs run
χ² / ndf 9330 / 88
p0 1621 ± 1.252
2000
1900
1800
1700
1600
1500
1400

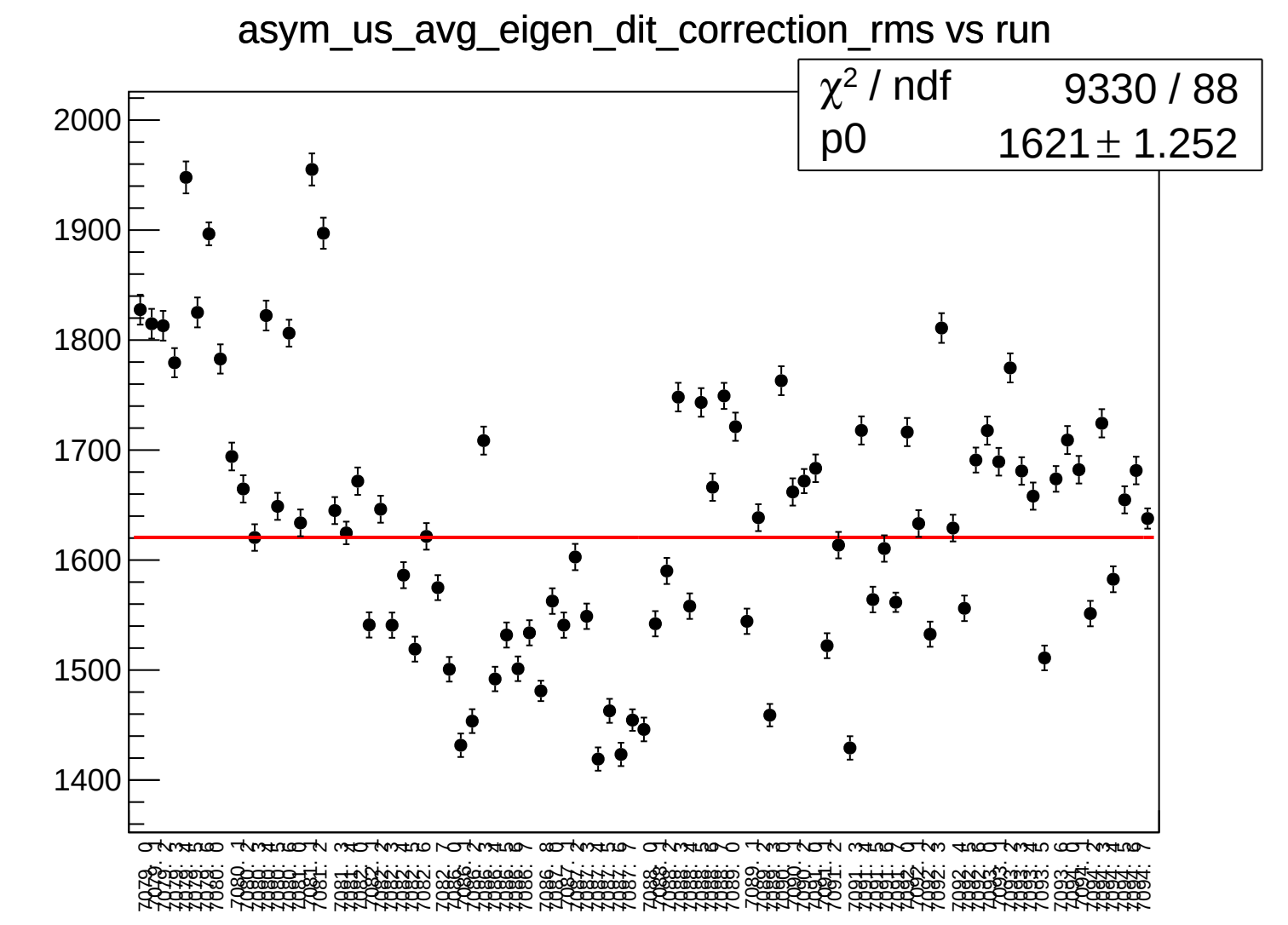

eigen_dit_asym_us_avg_mean vs run
χ^2 / ndf 105 / 88
p0 1658 ± 848.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 174.1
Std Dev 0
3
2
1
0
−1
−2

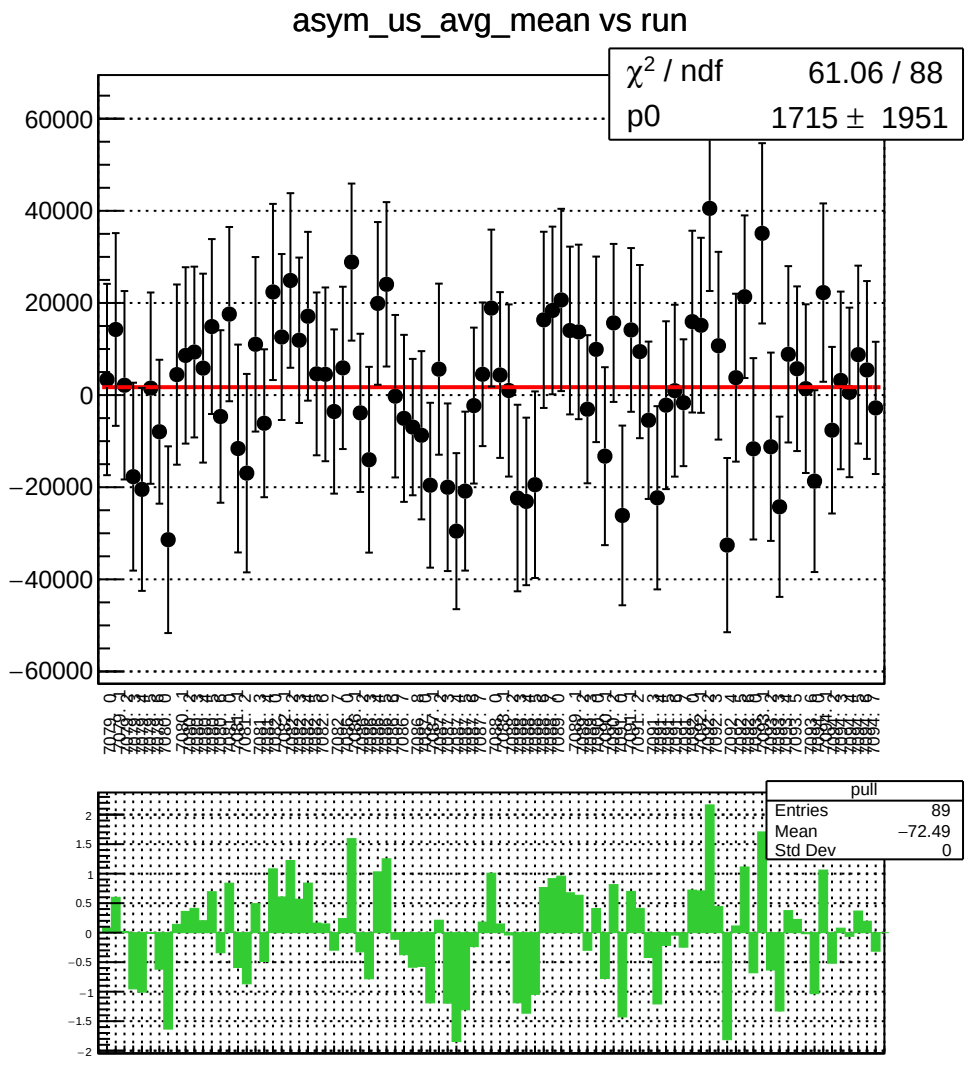

pull1D
Entries 89
Mean −0.01896
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

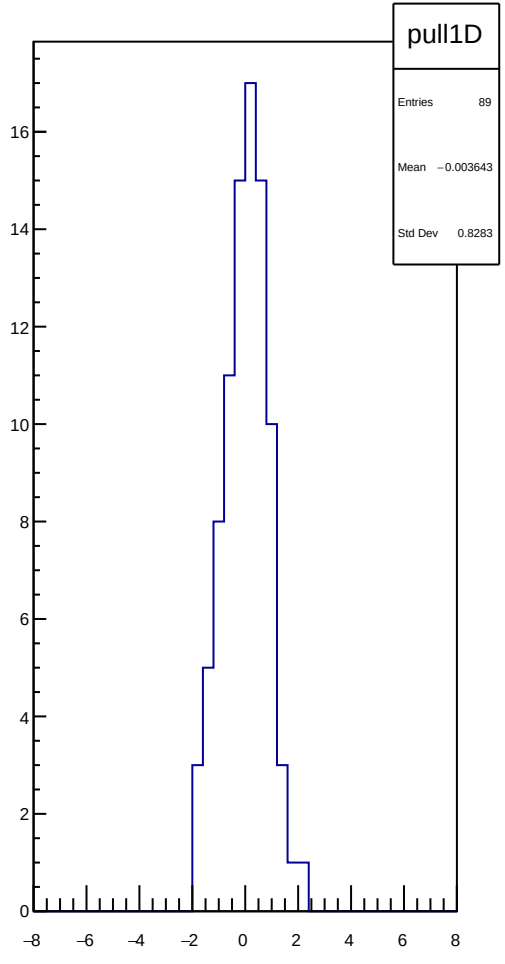

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 110.4 / 88
p0 778.8 ± 0.5998
800
790
780
770
760

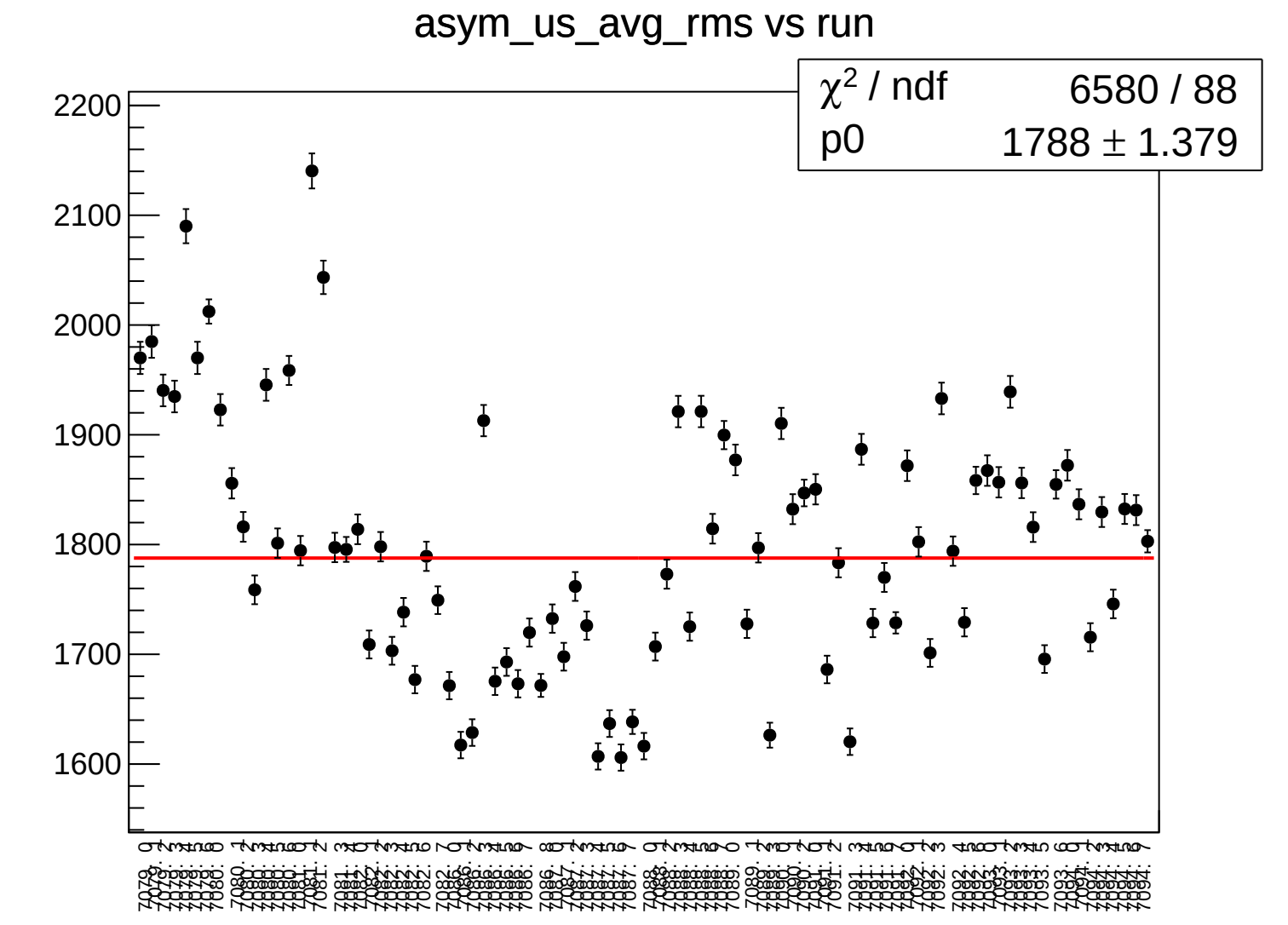

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.51 / 88
p0 −327.4 ± 1770
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −492
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

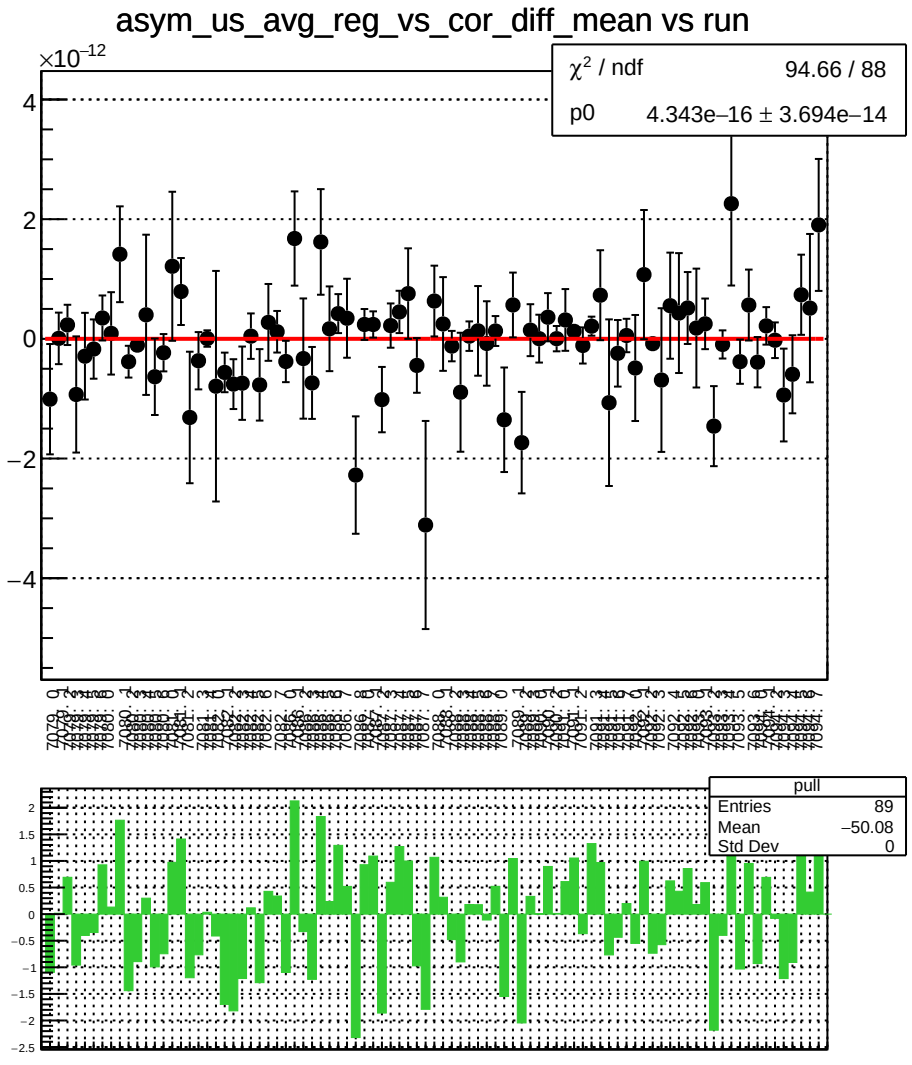

pull1D
Entries 89
Mean 0.002798
Std Dev 0.8709
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

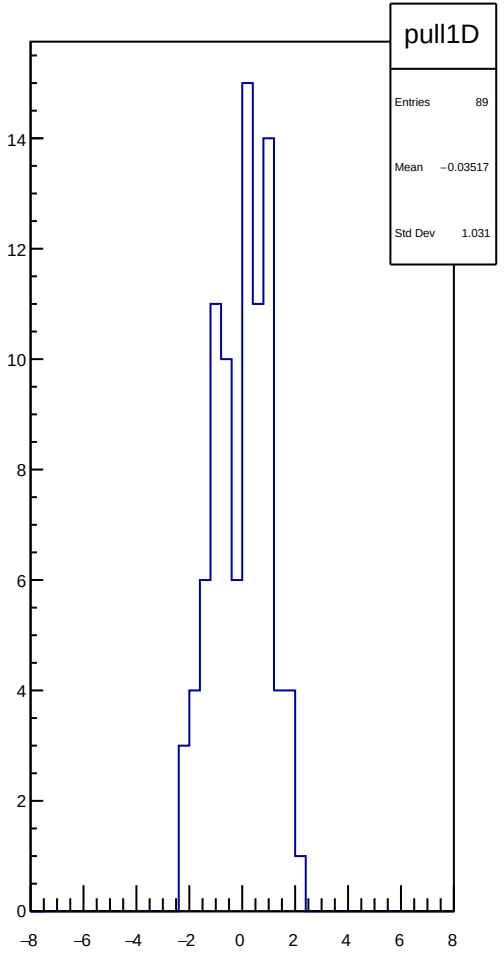

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 9330 / 88
p0 1621 ± 1.252
2000
1900
1800
1700
1600
1500
1400

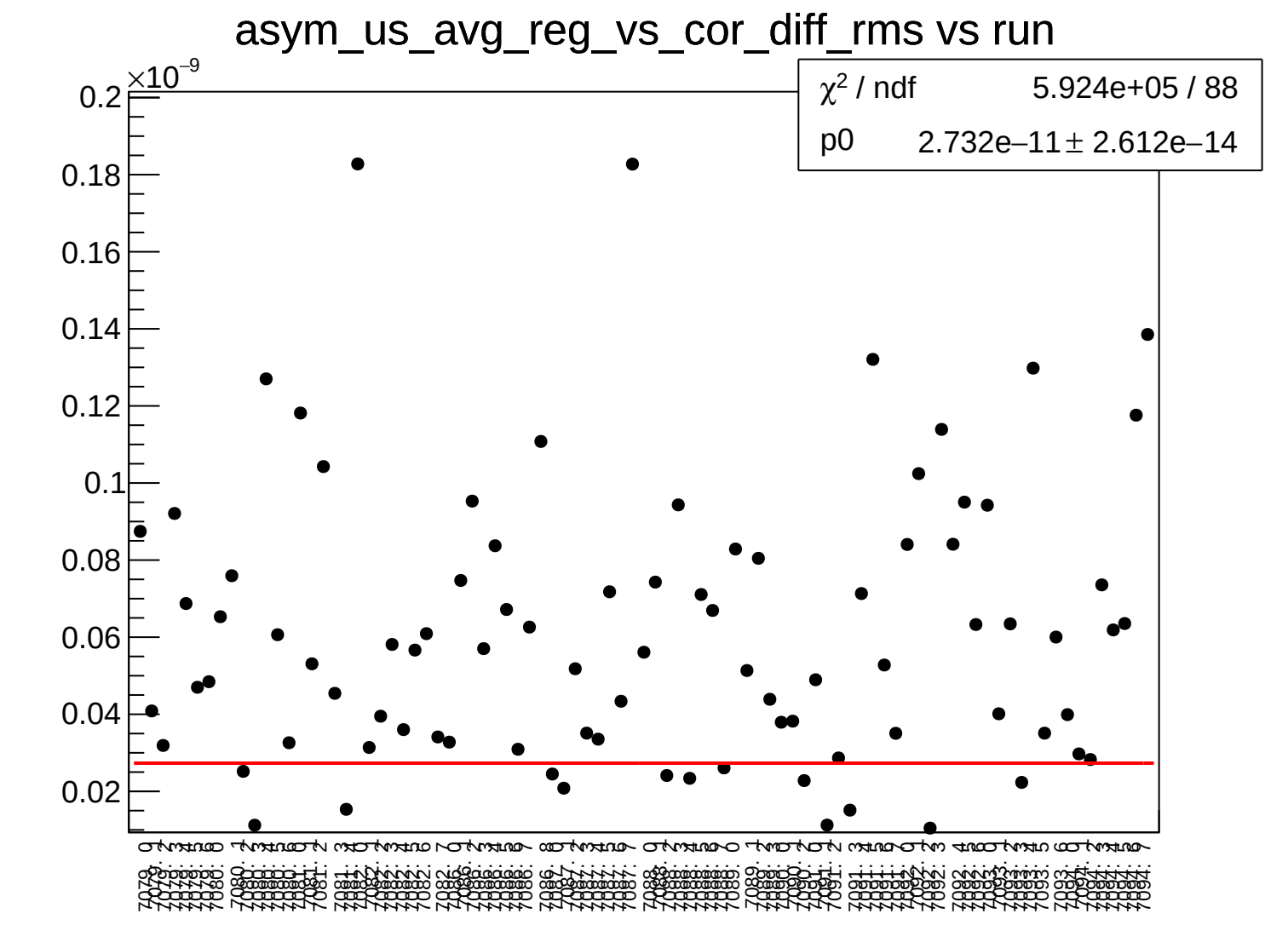

asym_us_avg_mean vs run
χ² / ndf 61.06 / 88
p0 1715 ± 1951
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −72.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

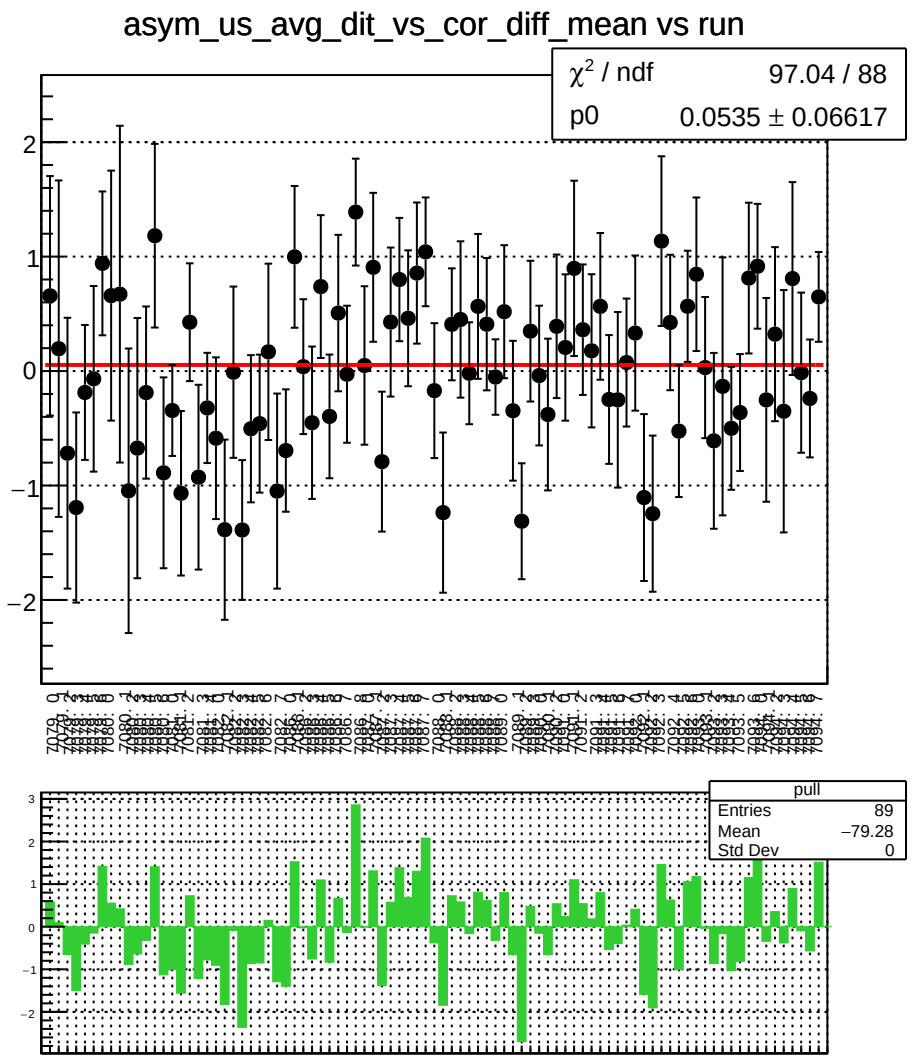

pull1D
Entries 89
Mean −0.003643
Std Dev 0.8283
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

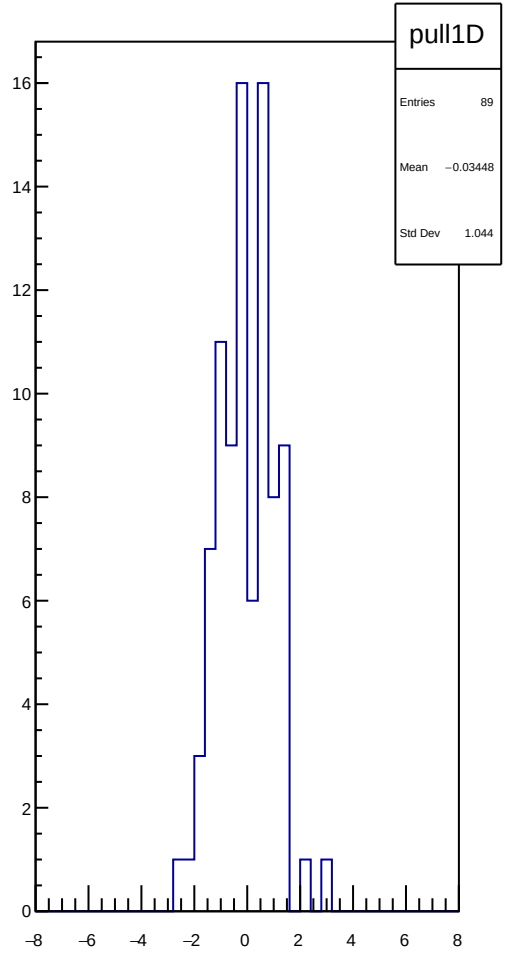

asym_us_avg_rms vs run
χ^2 / ndf 6580 / 88
p0 1788 ± 1.379
2200
2100
2000
1900
1800
1700
1600

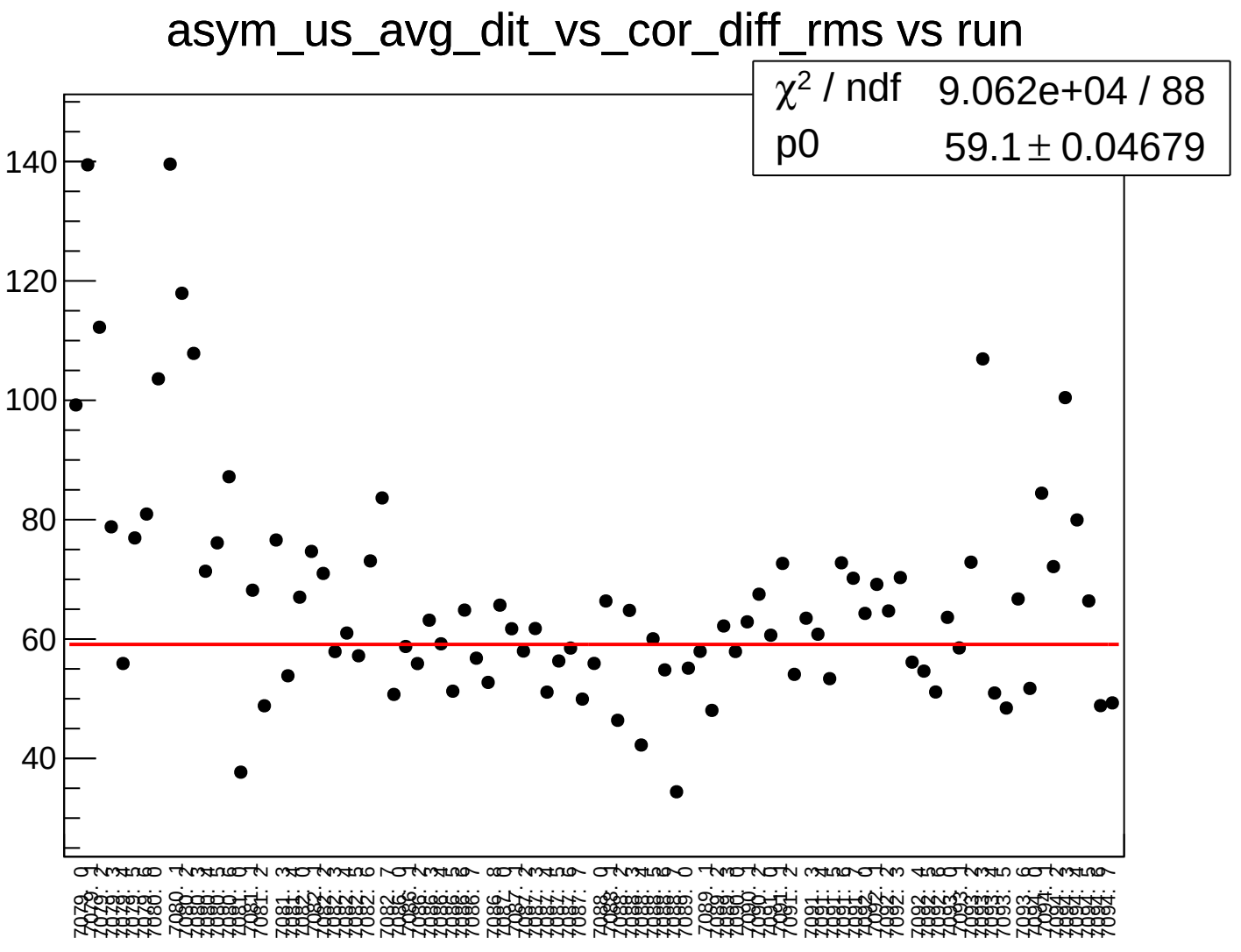

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.66 / 88
p0 4.343e−16 ± 3.694e−14
pull
Entries 89
Mean −50.08
Std Dev 0

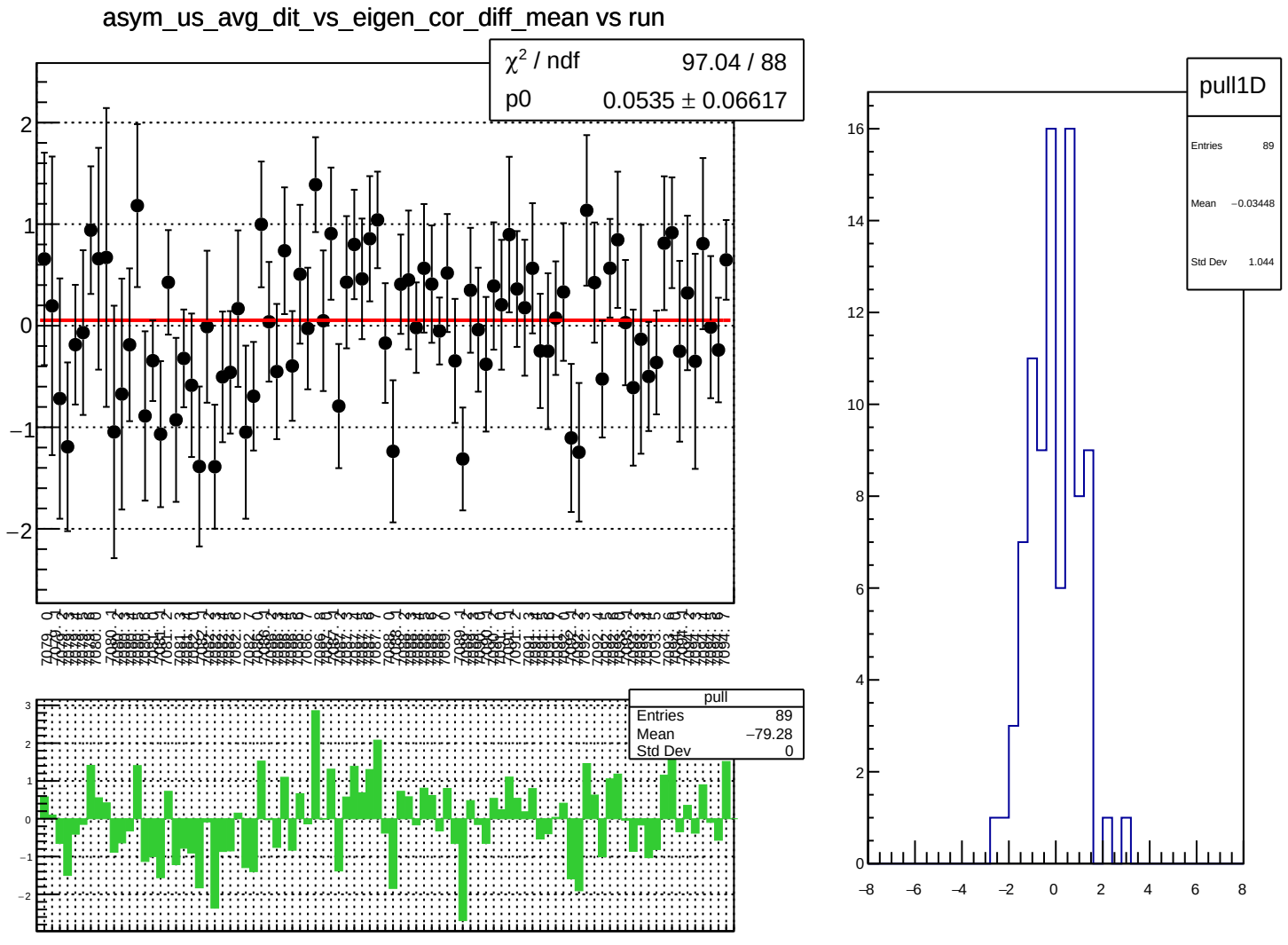

pull1D
Entries 89
Mean −0.03517
Std Dev 1.031

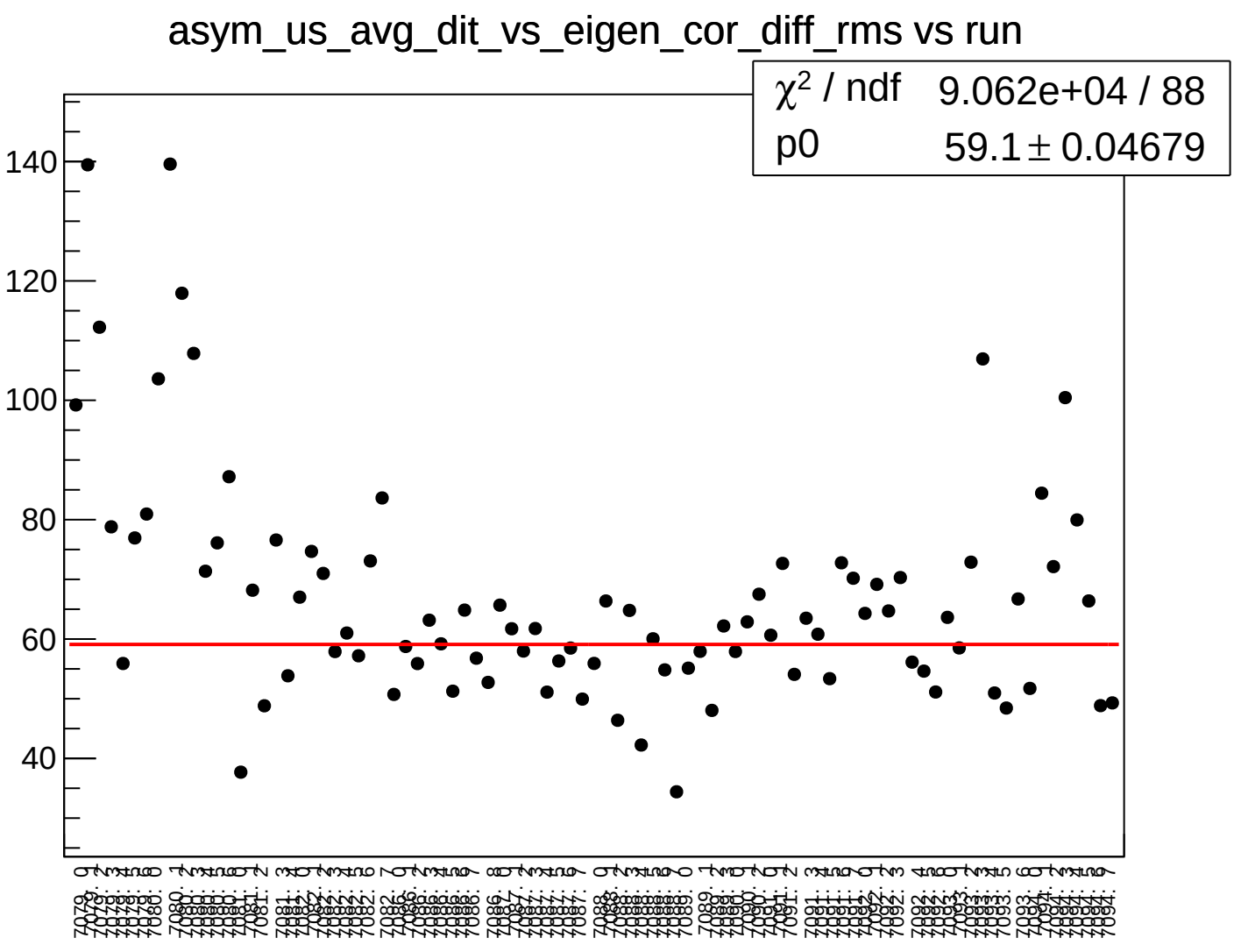

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.924e+05 / 88
p0 2.732e−11 ± 2.612e−14

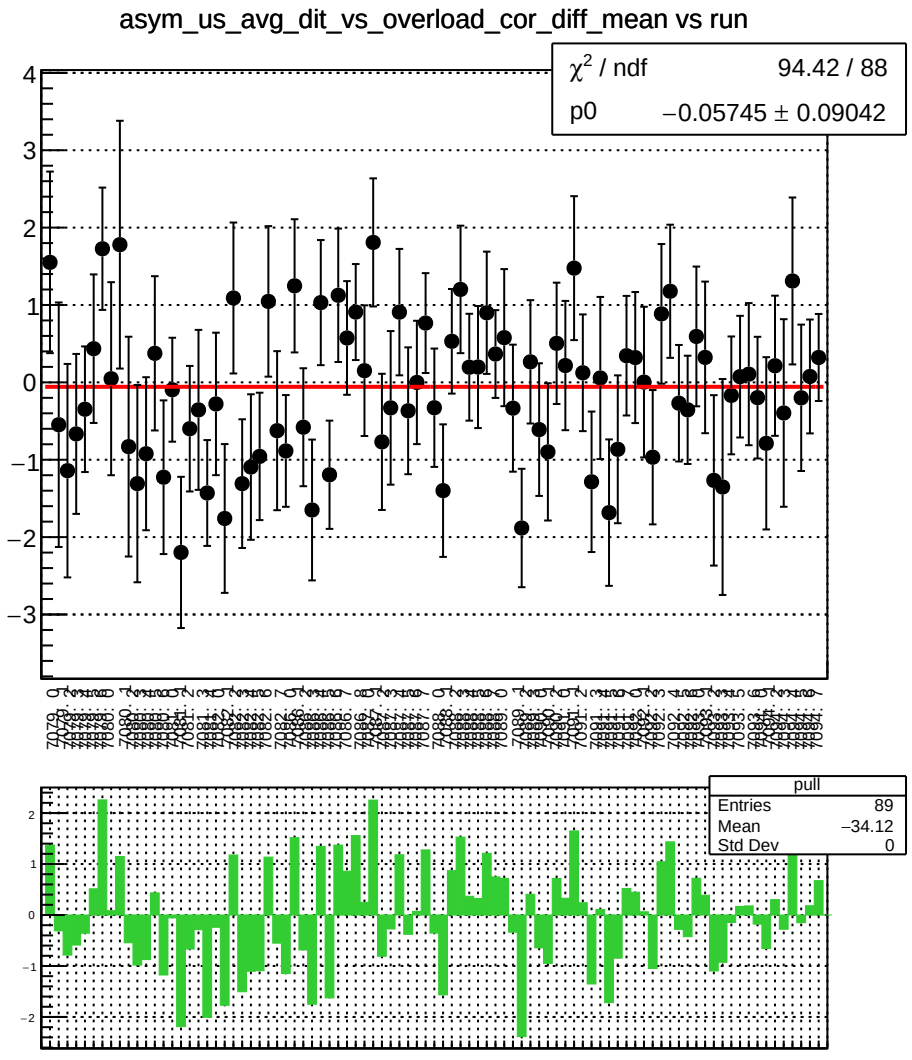

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.04 / 88
p0 0.0535 ± 0.06617
pull
Entries 89
Mean −79.28
Std Dev 0

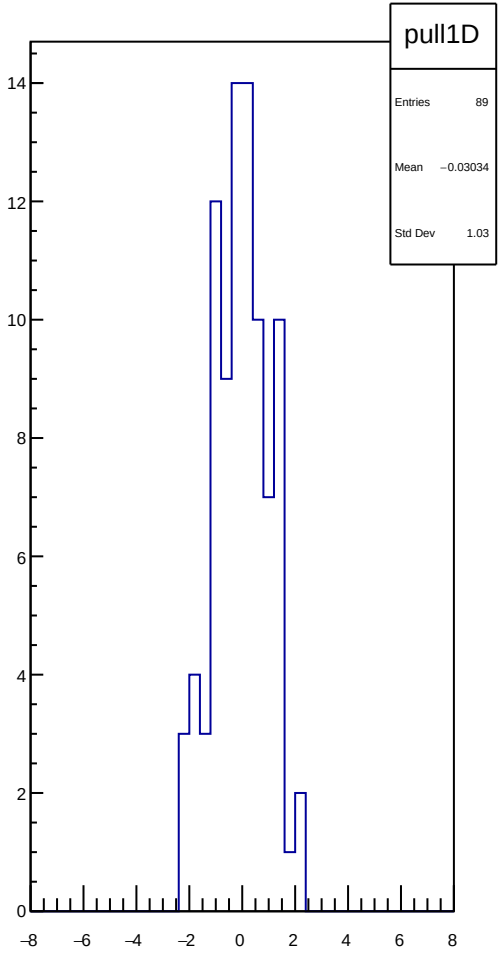

pull1D
Entries 89
Mean −0.03448
Std Dev 1.044

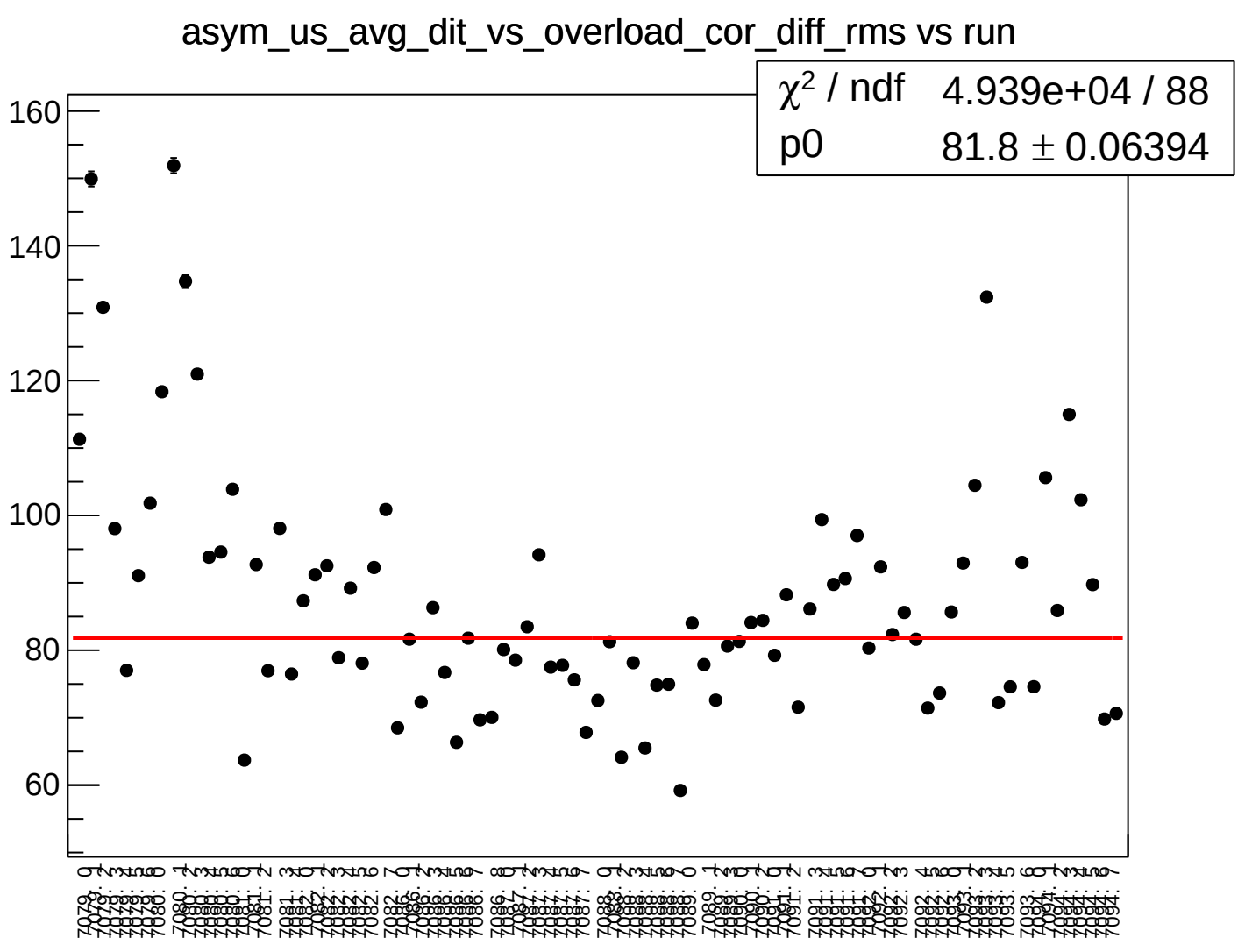

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.062e+04 / 88
p0 59.1 ± 0.04679
140
120
100
80
60
40

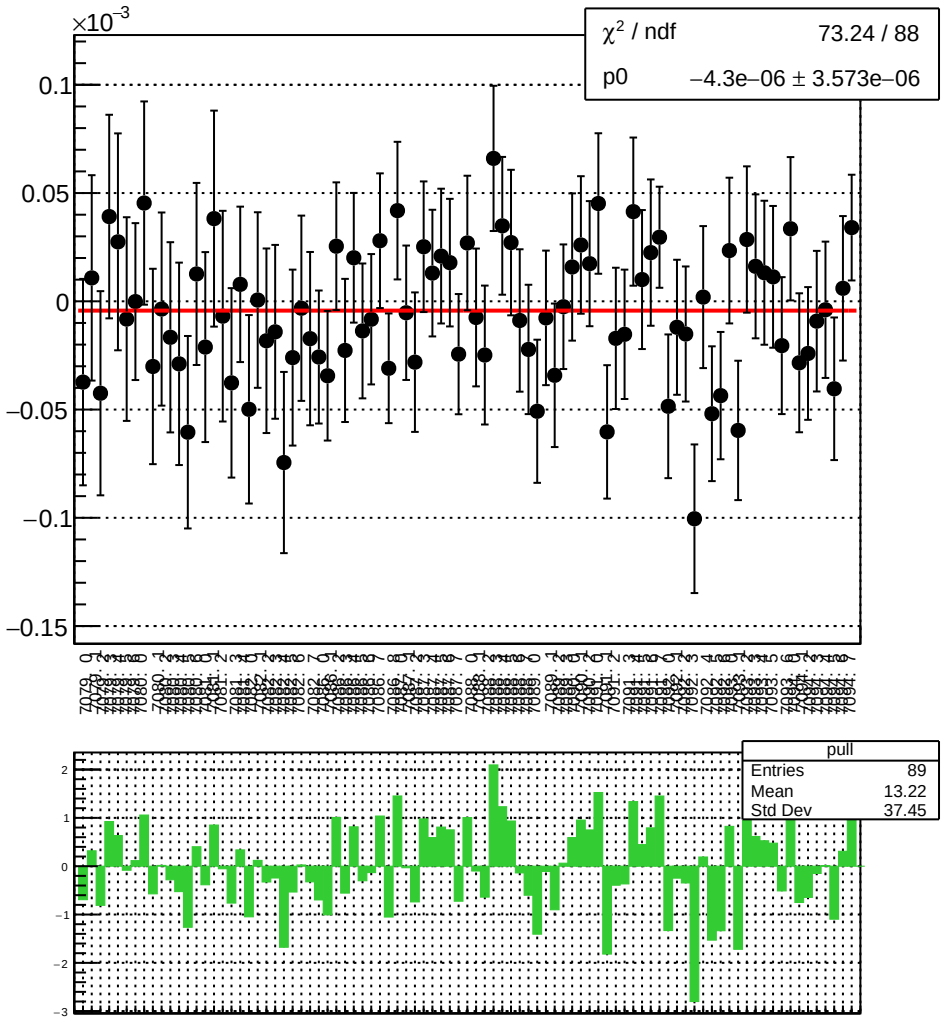

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.04 / 88
p0 0.0535 ± 0.06617
pull
Entries 89
Mean −79.28
Std Dev 0
pull1D
Entries 89
Mean −0.03448
Std Dev 1.044

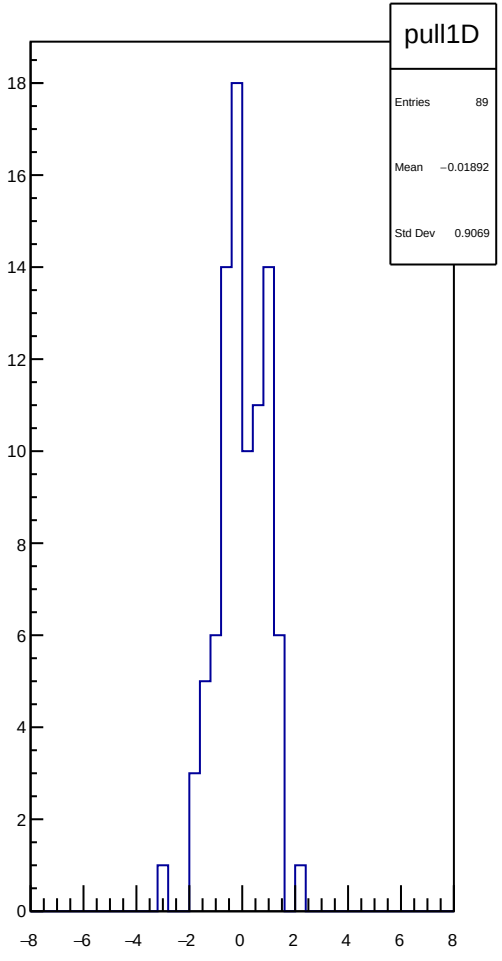

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.062e+04 / 88
p0 59.1 ± 0.04679
140
120
100
80
60
40

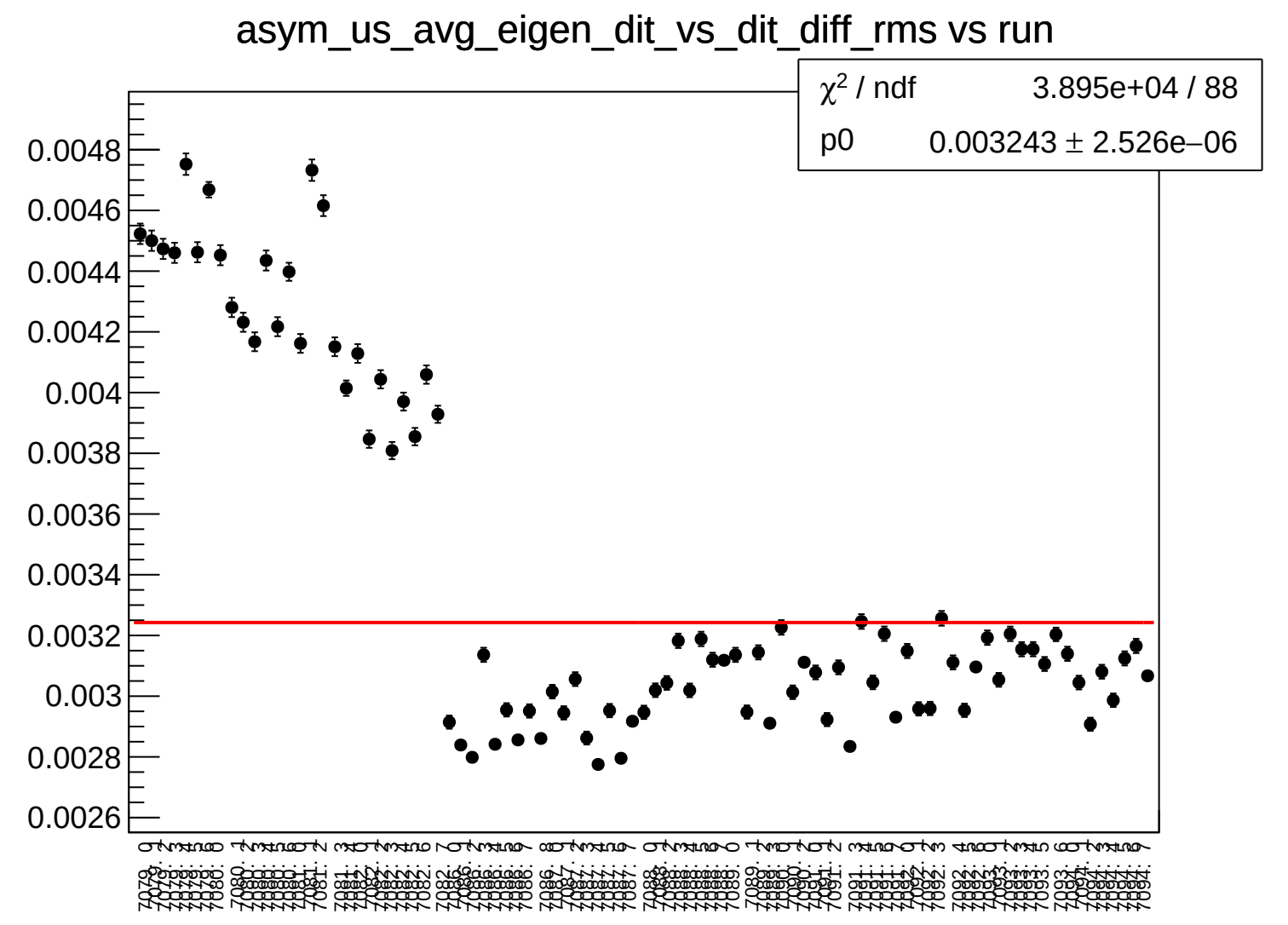

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 94.42 / 88
p0 −0.05745 ± 0.09042
pull
Entries 89
Mean −34.12
Std Dev 0

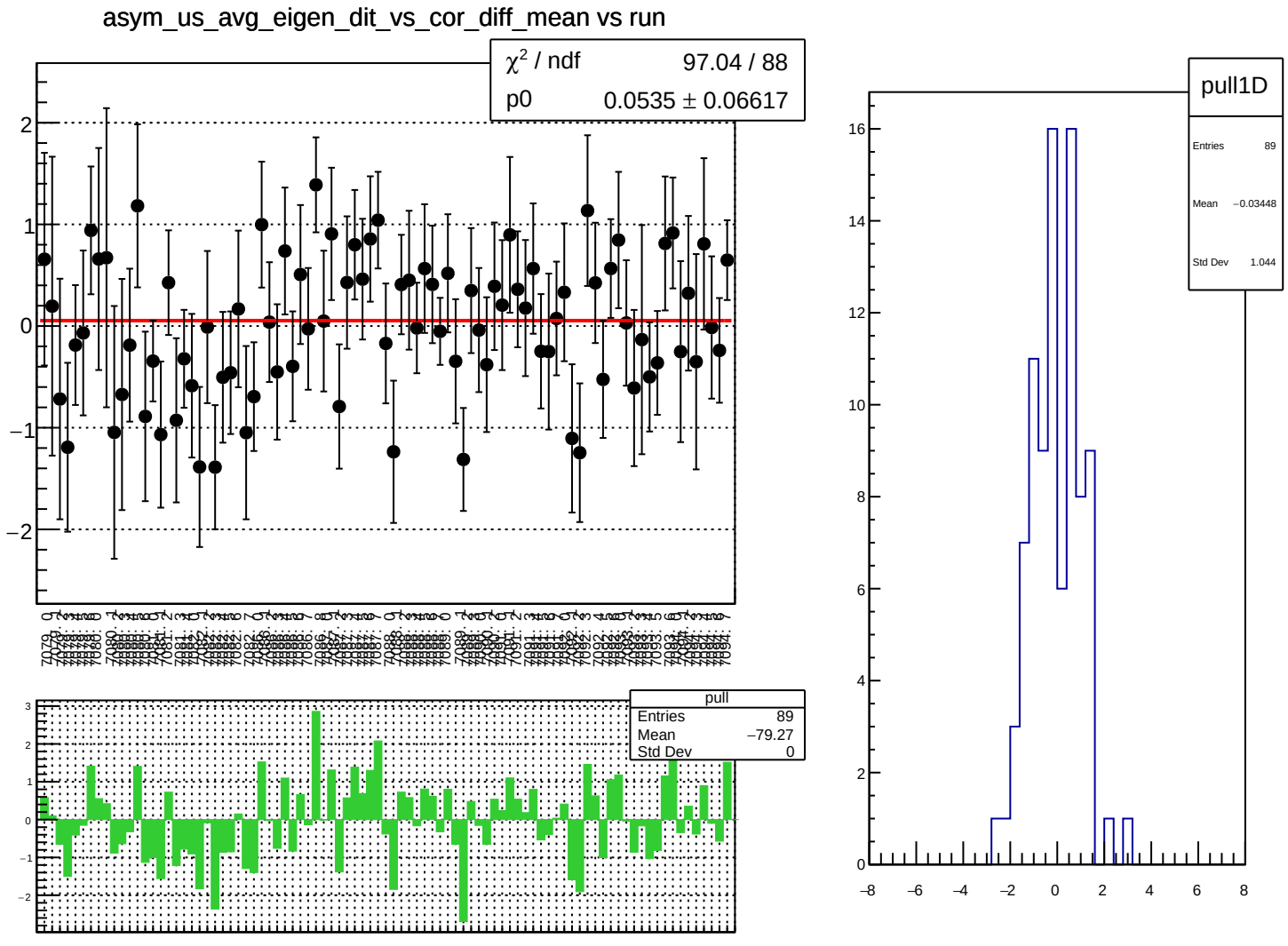

pull1D
Entries 89
Mean −0.03034
Std Dev 1.03

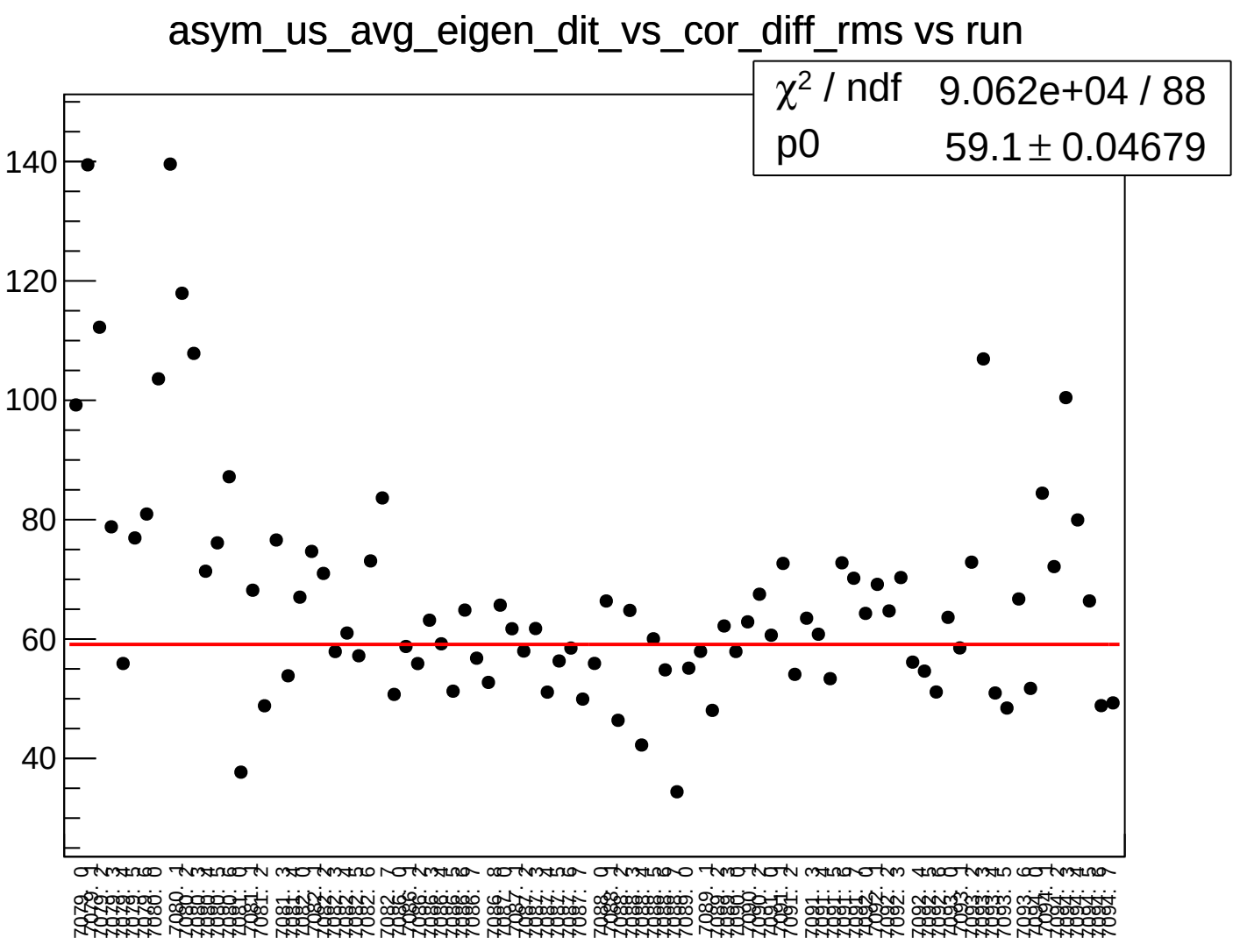

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.939e+04 / 88
p0 81.8 ± 0.06394
160
140
120
100
80
60

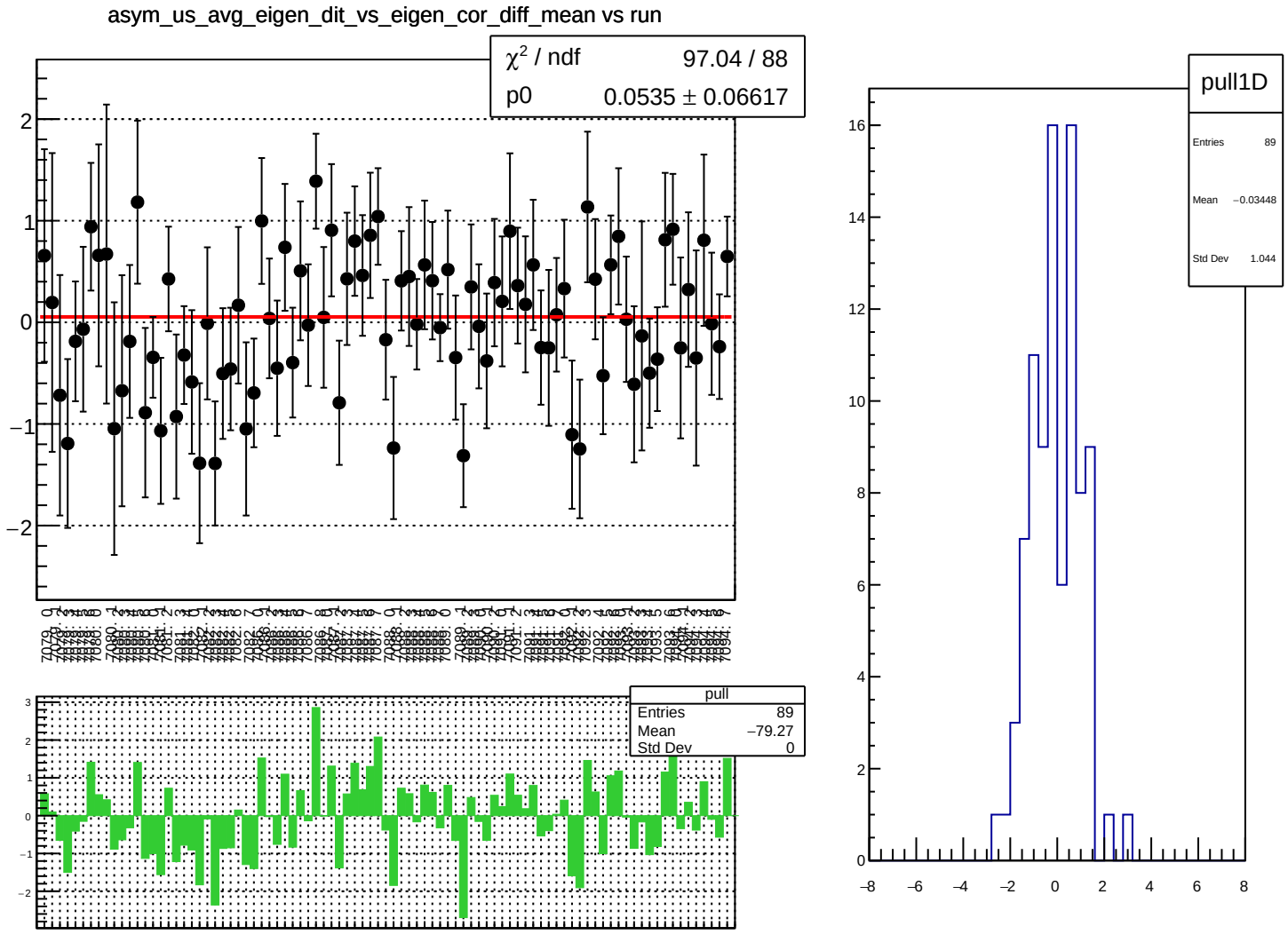

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.24 / 88
p0 −4.3e−06 ± 3.573e−06
pull
Entries 89
Mean 13.22
Std Dev 37.45

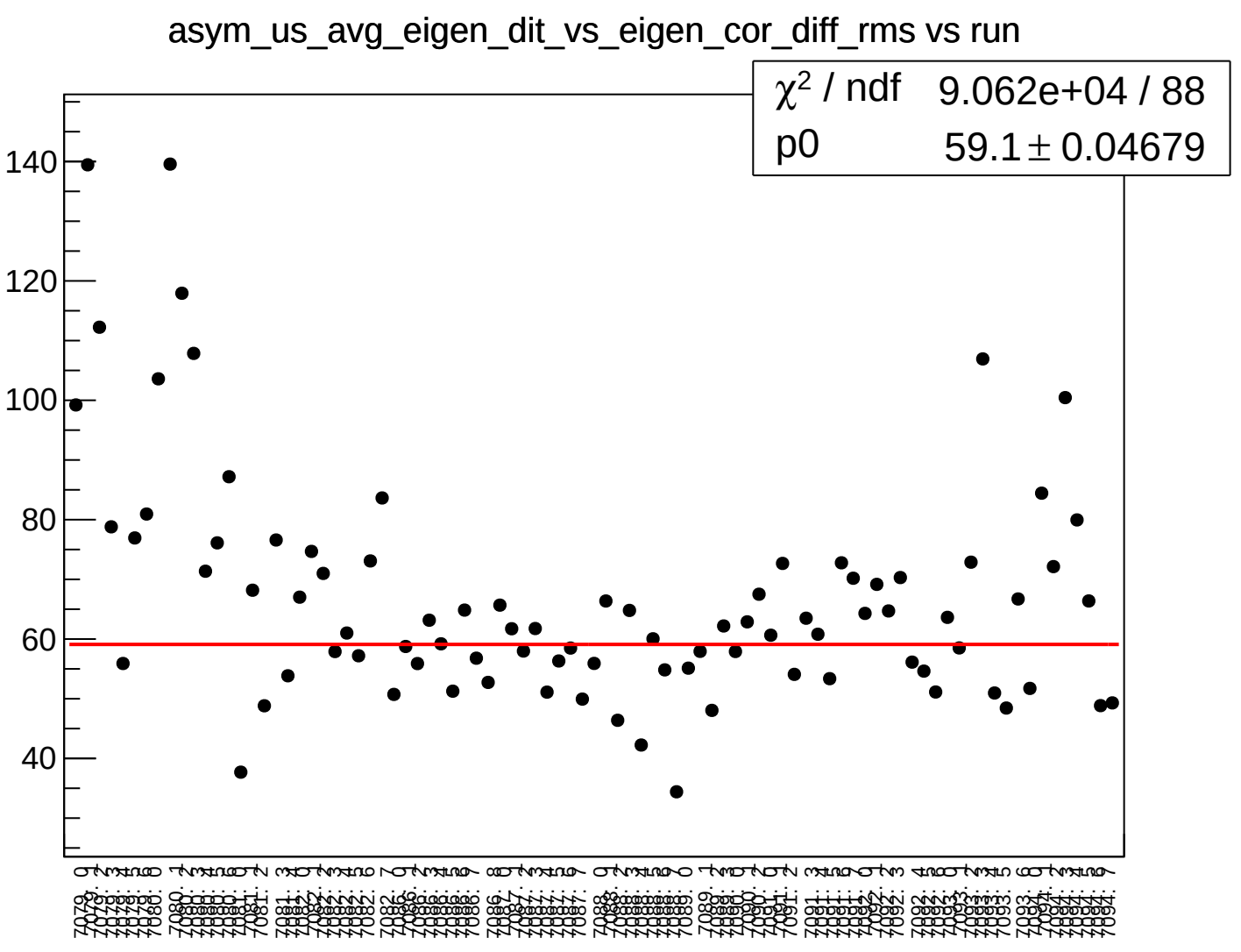

pull1D
Entries 89
Mean −0.01892
Std Dev 0.9069

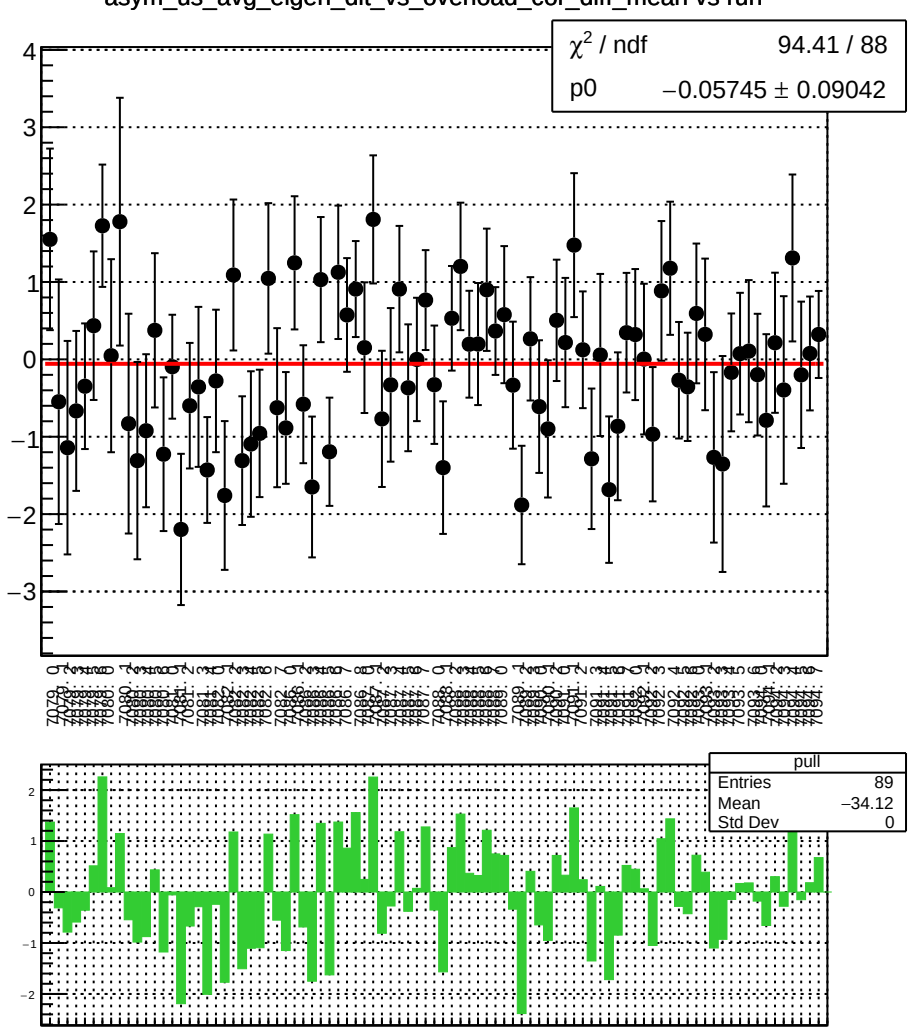

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.895e+04 / 88
p0 0.003243 ± 2.526e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

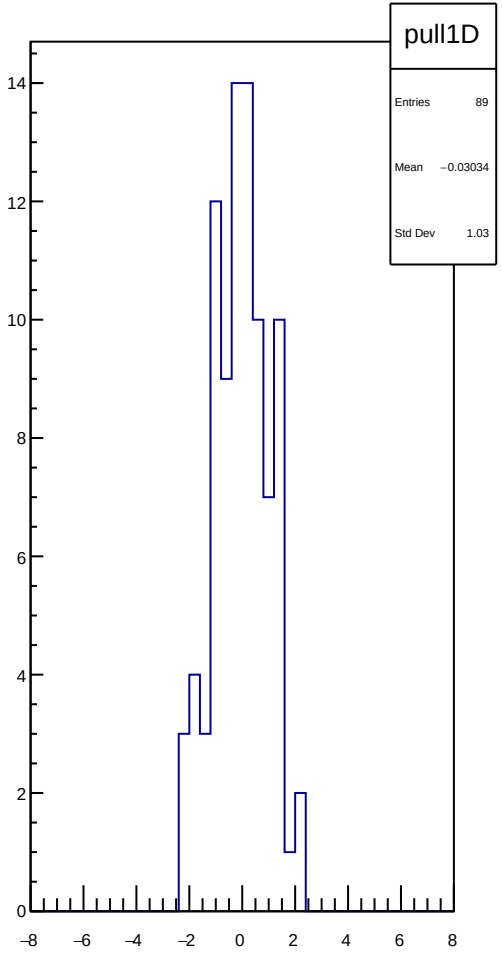

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.04 / 88
p0 0.0535 ± 0.06617
pull
Entries 89
Mean −79.27
Std Dev 0
pull1D
Entries 89
Mean −0.03448
Std Dev 1.044

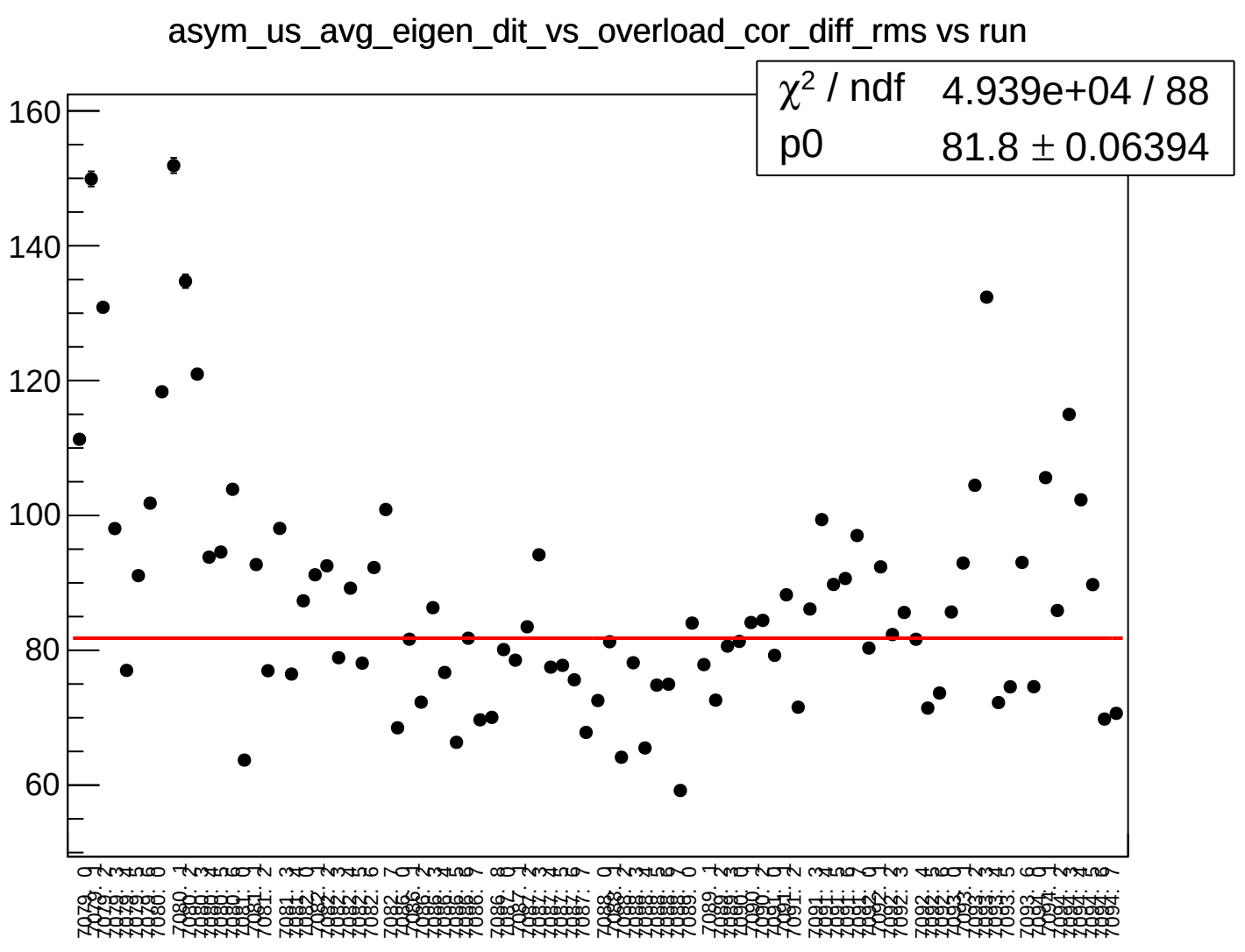

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.062e+04 / 88
p0 59.1 ± 0.04679
140
120
100
80
60
40

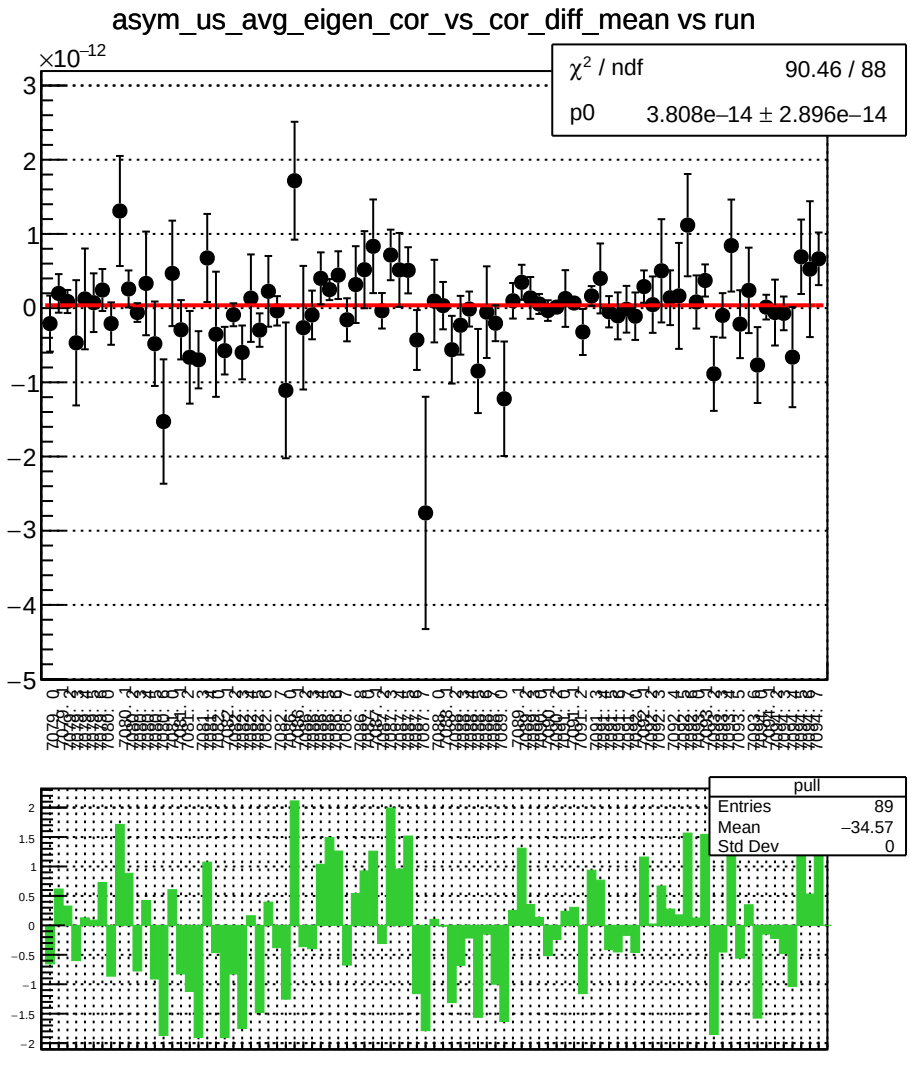

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.04 / 88
p0 0.0535 ± 0.06617
pull
Entries 89
Mean −79.27
Std Dev 0
pull1D
Entries 89
Mean −0.03448
Std Dev 1.044

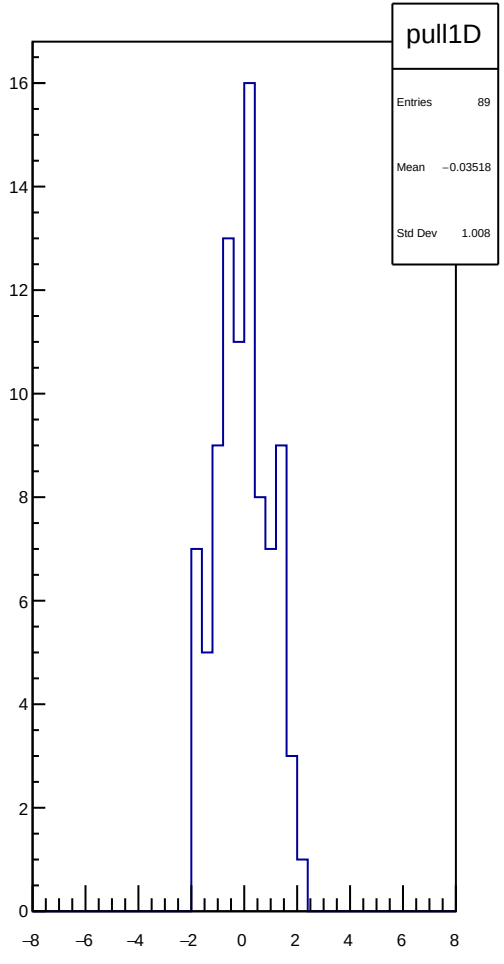

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.062e+04 / 88
p0 59.1 ± 0.04679
140
120
100
80
60
40

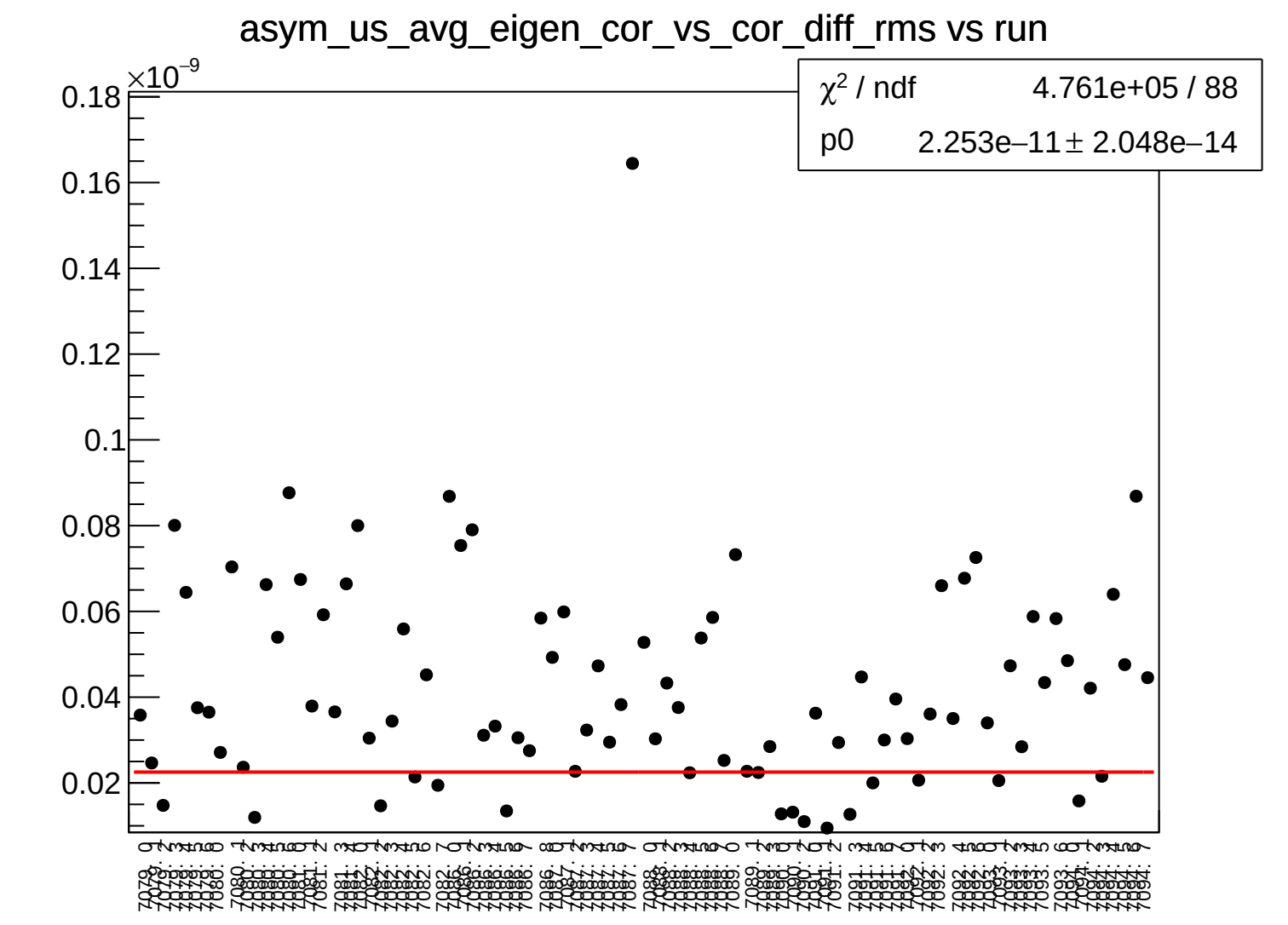

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 94.41 / 88
p0 −0.05745 ± 0.09042
pull
Entries 89
Mean −34.12
Std Dev 0

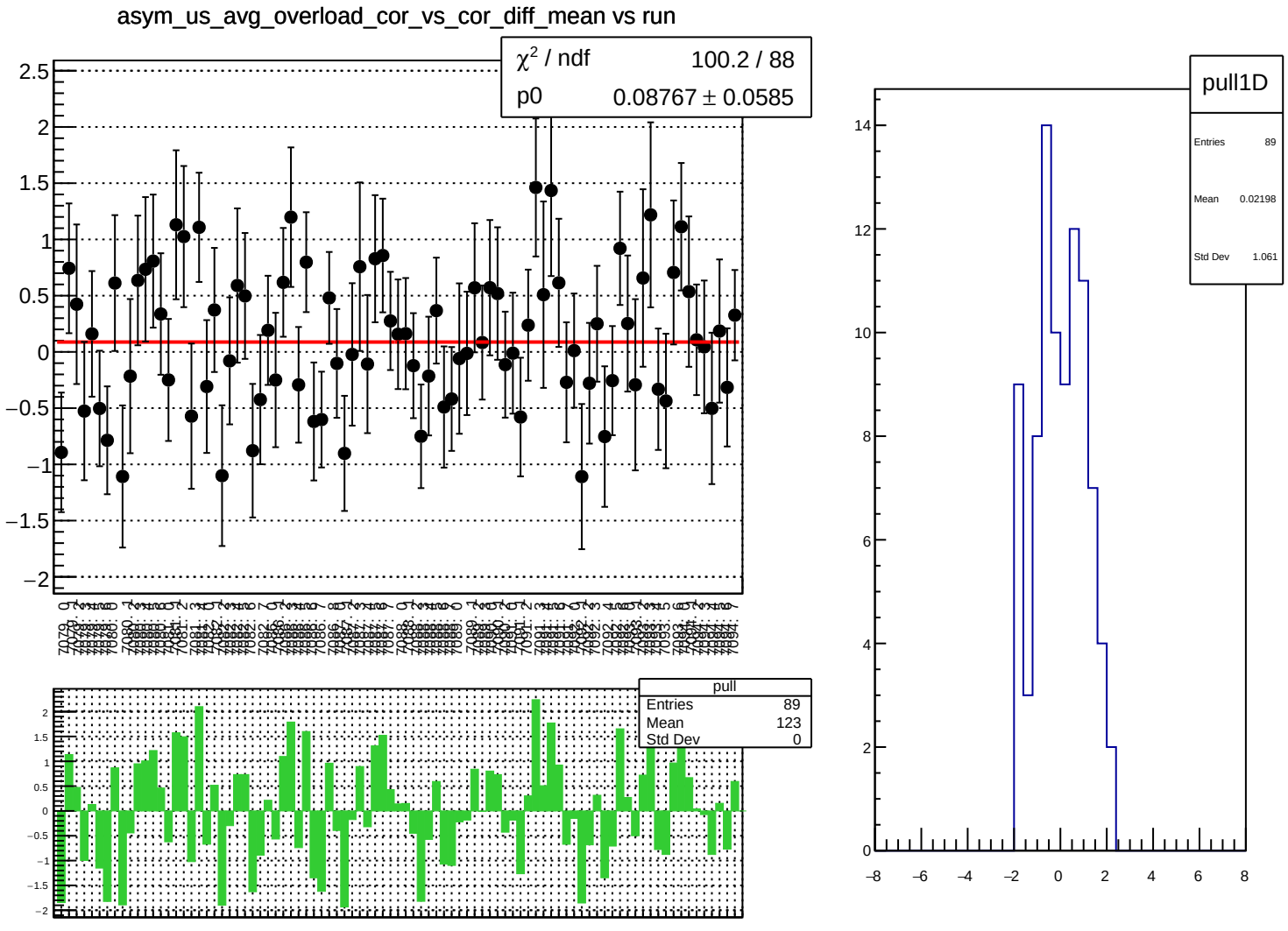

pull1D
Entries 89
Mean −0.03034
Std Dev 1.03

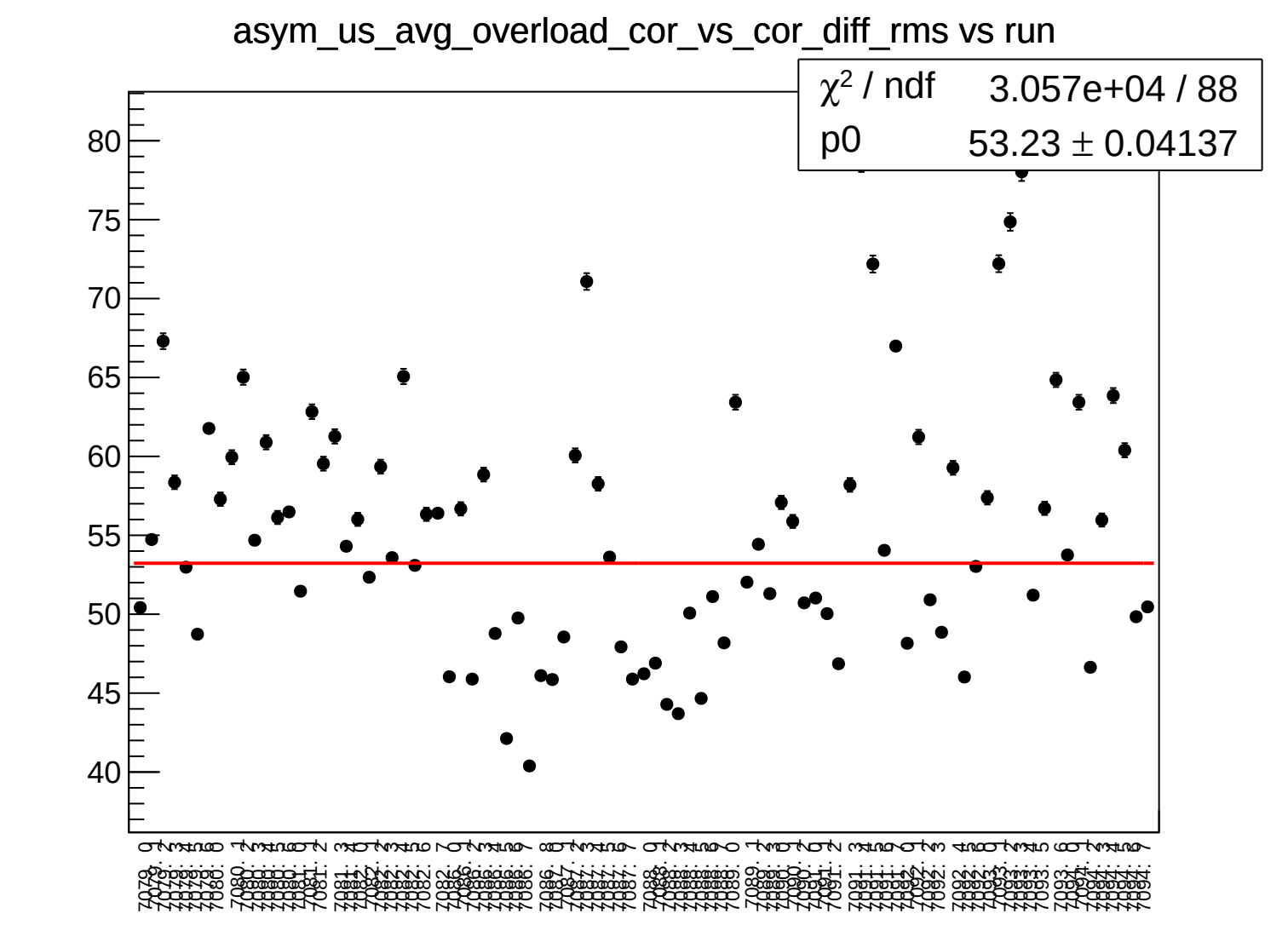

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.939e+04 / 88
p0 81.8 ± 0.06394
160
140
120
100
80
60

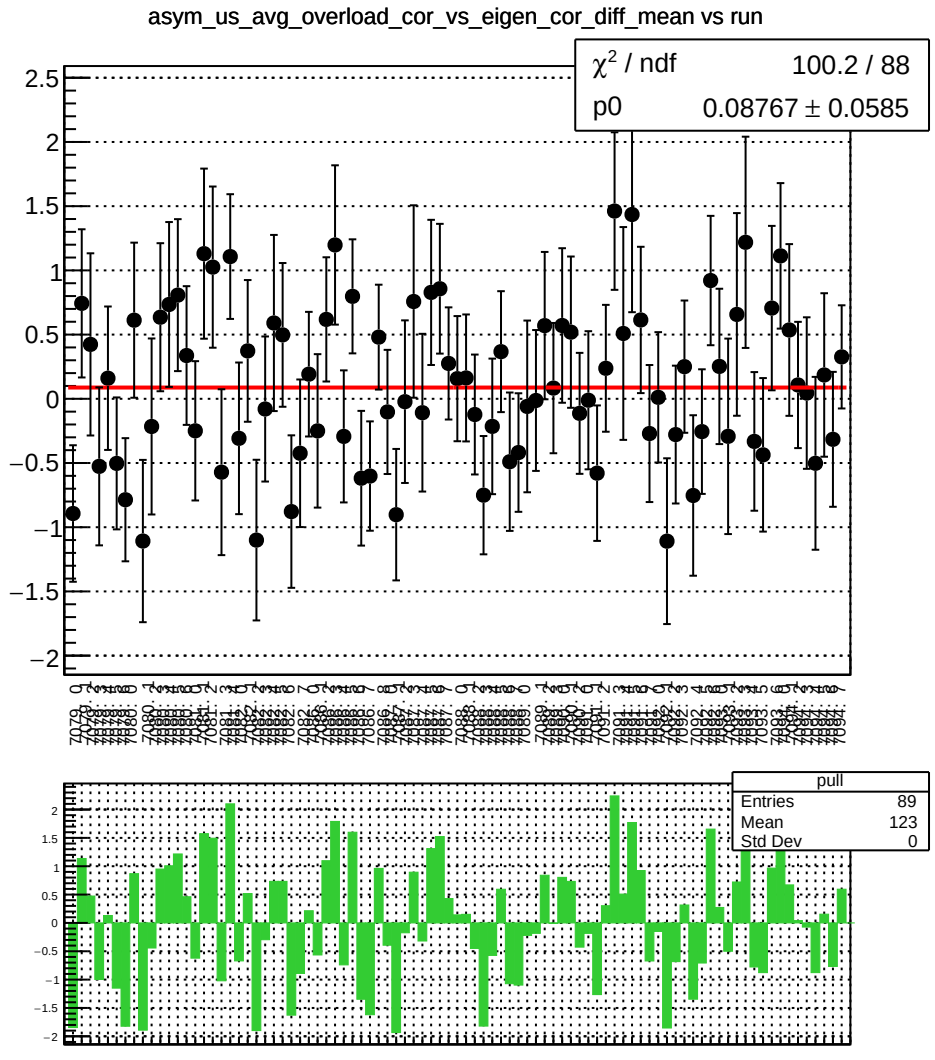

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.46 / 88
p0 3.808e−14 ± 2.896e−14
pull
Entries 89
Mean −34.57
Std Dev 0

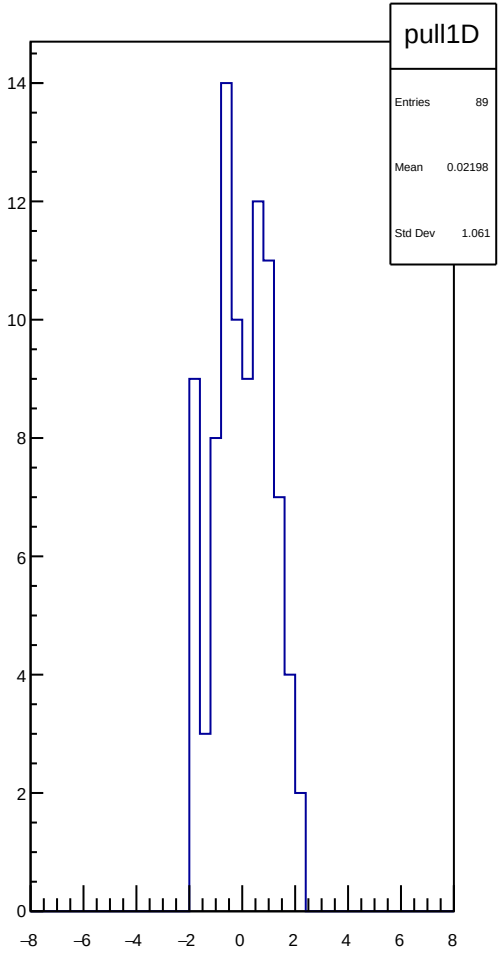

pull1D
Entries 89
Mean −0.03518
Std Dev 1.008

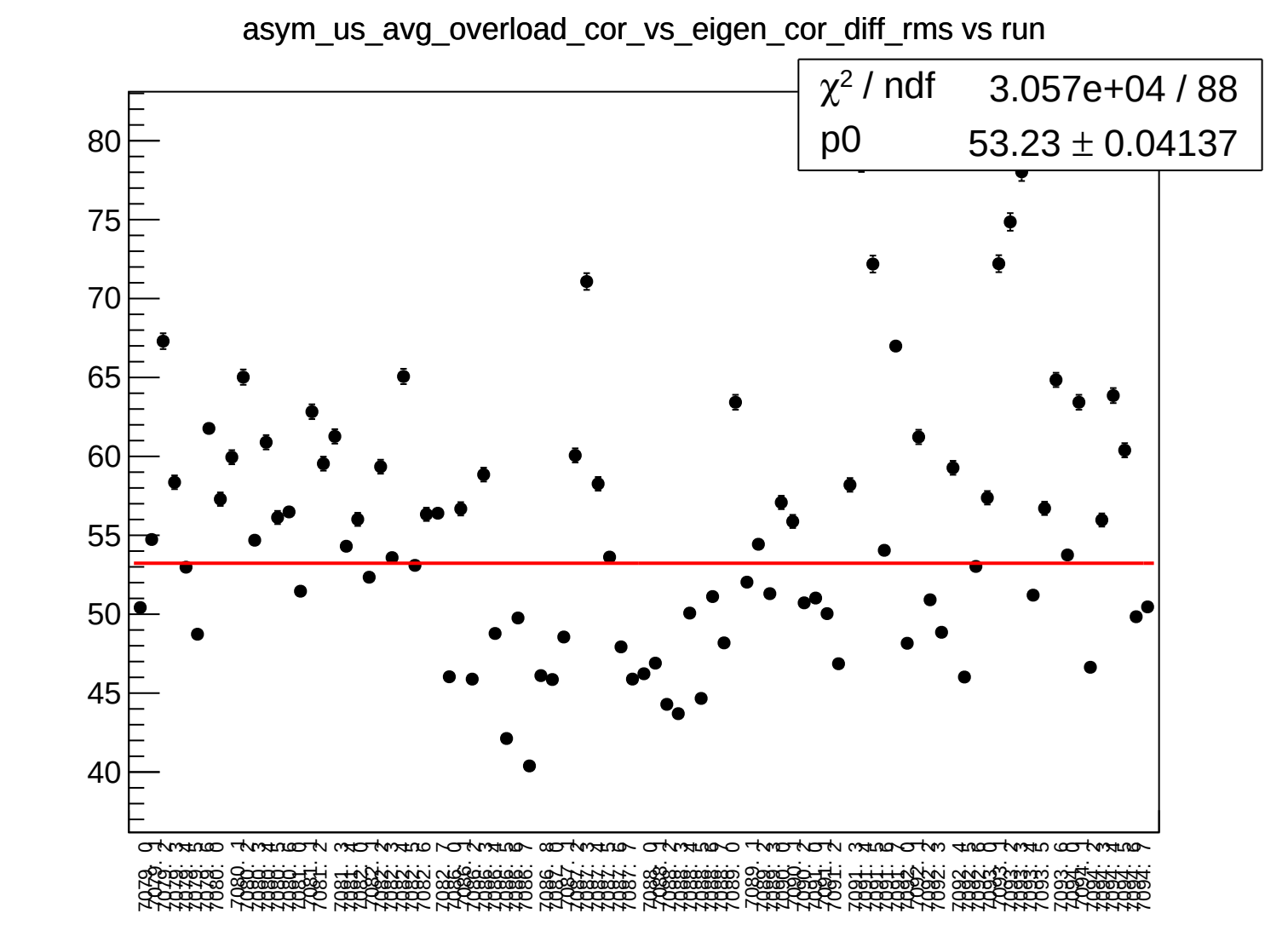

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 4.761e+05 / 88
p0 2.253e−11 ± 2.048e−14

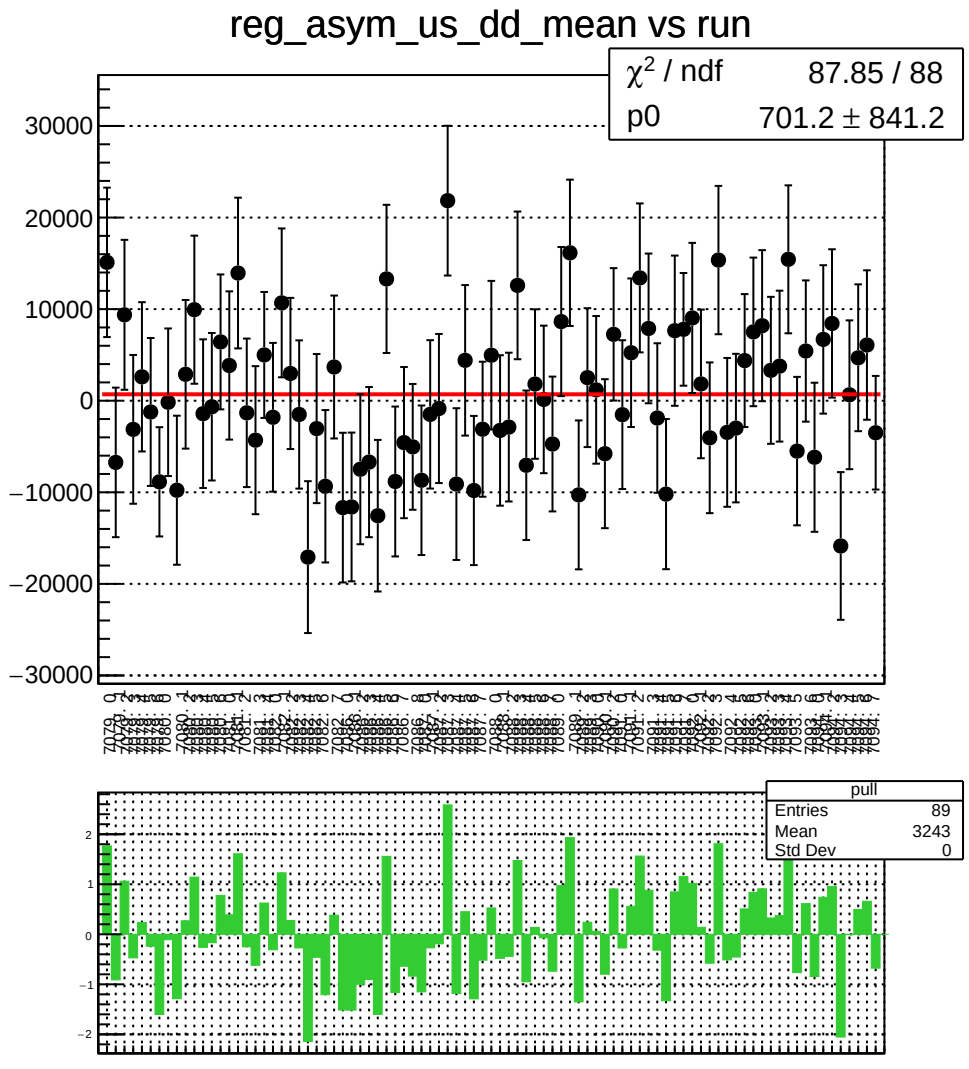

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 88
p0 0.08767 ± 0.0585
pull
Entries 89
Mean 123
Std Dev 0
pull1D
Entries 89
Mean 0.02198
Std Dev 1.061

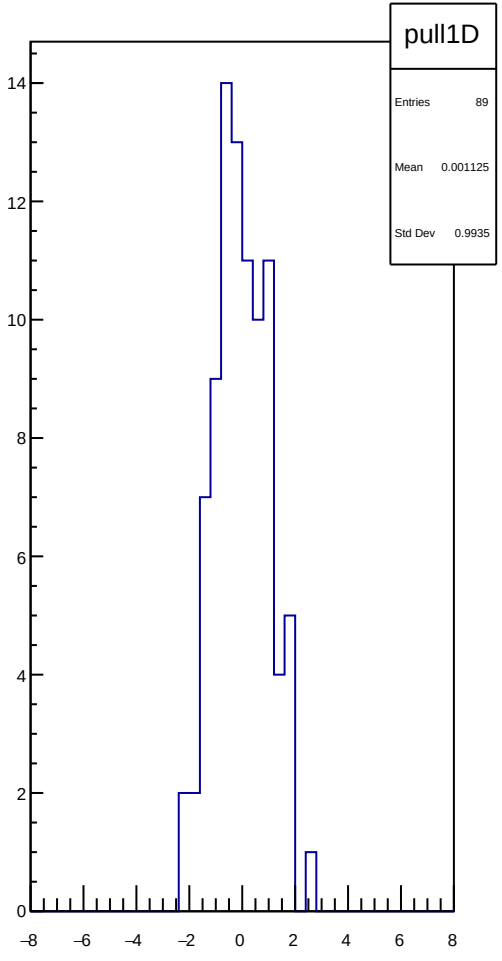

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.057e+04 / 88
p0 53.23 ± 0.04137
80
75
70
65
60
55
50
45
40

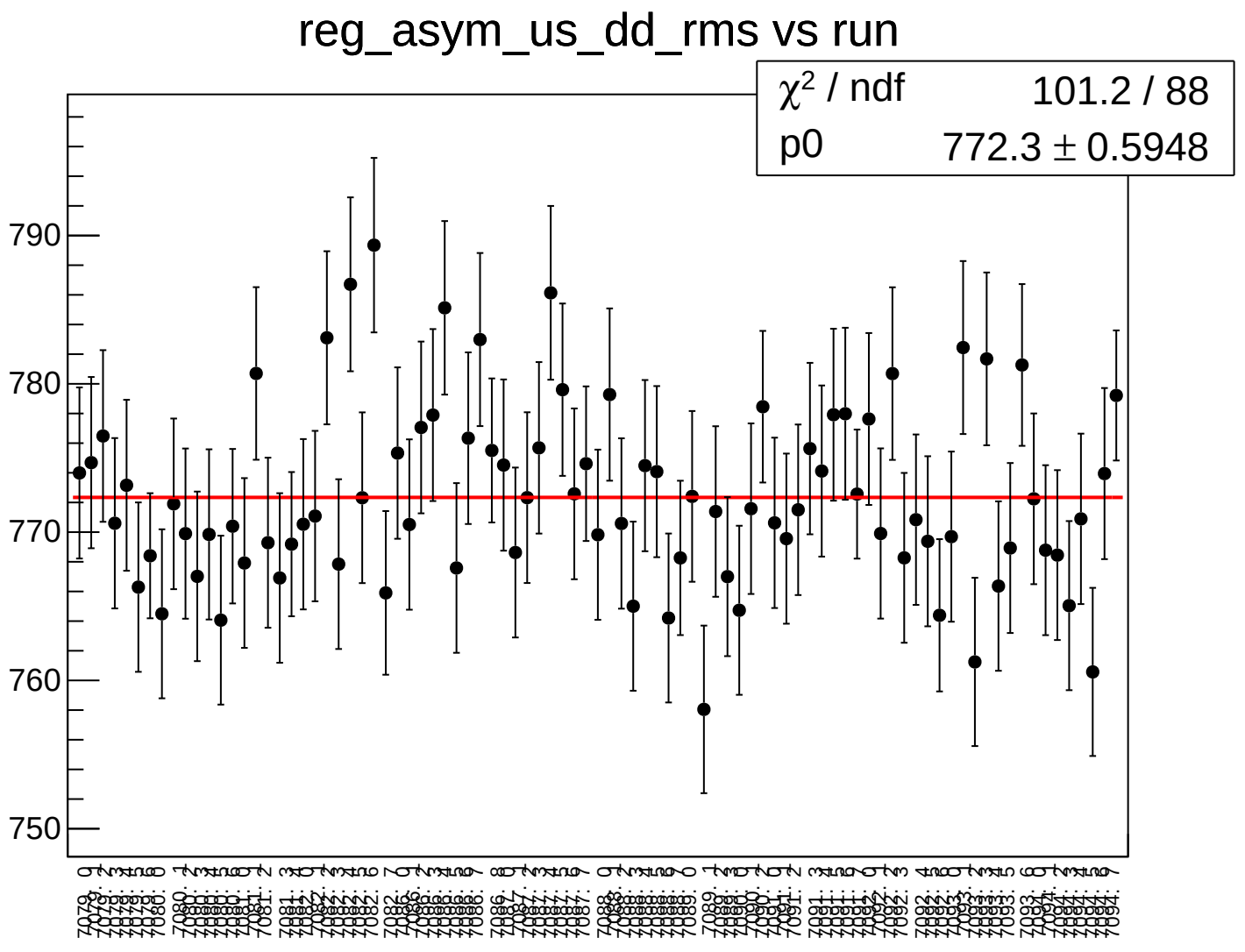

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 88
p0 0.08767 ± 0.0585
pull
Entries 89
Mean 123
Std Dev 0

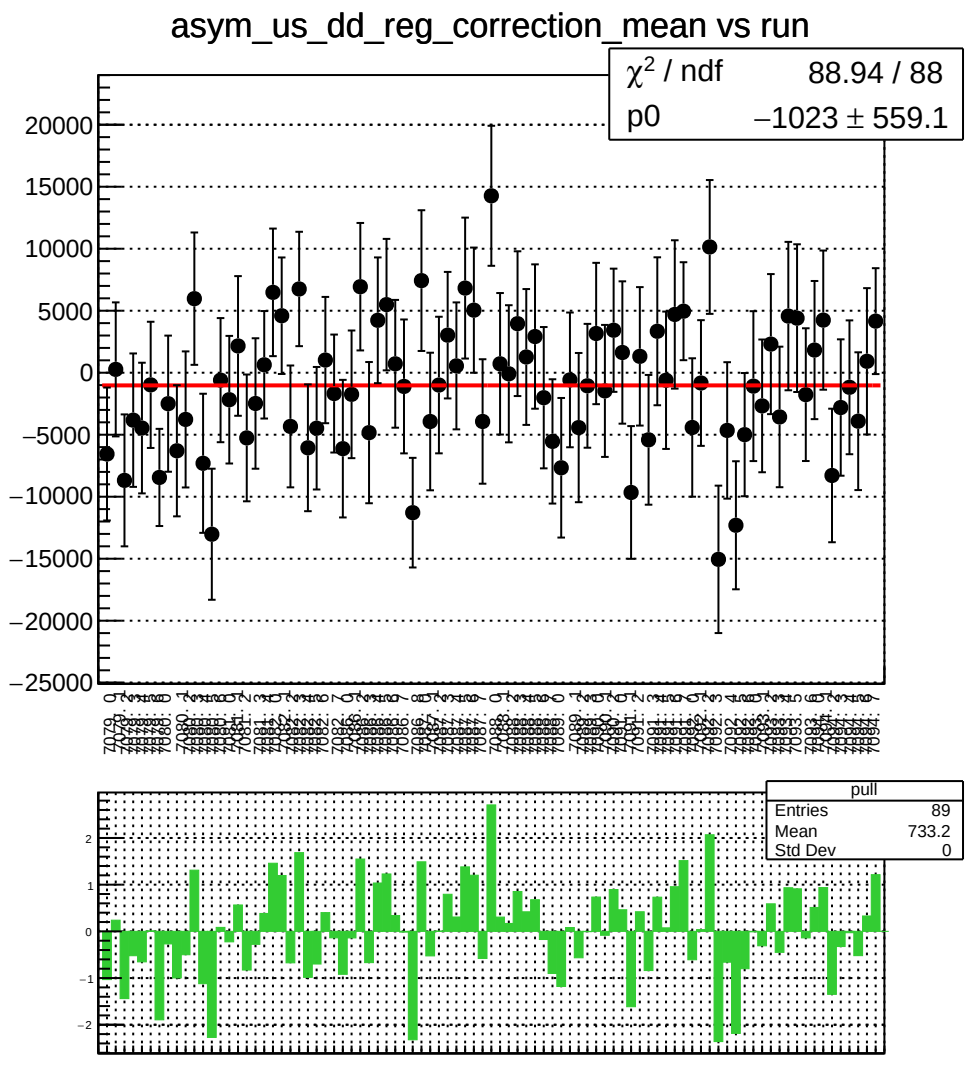

pull1D
Entries 89
Mean 0.02198
Std Dev 1.061

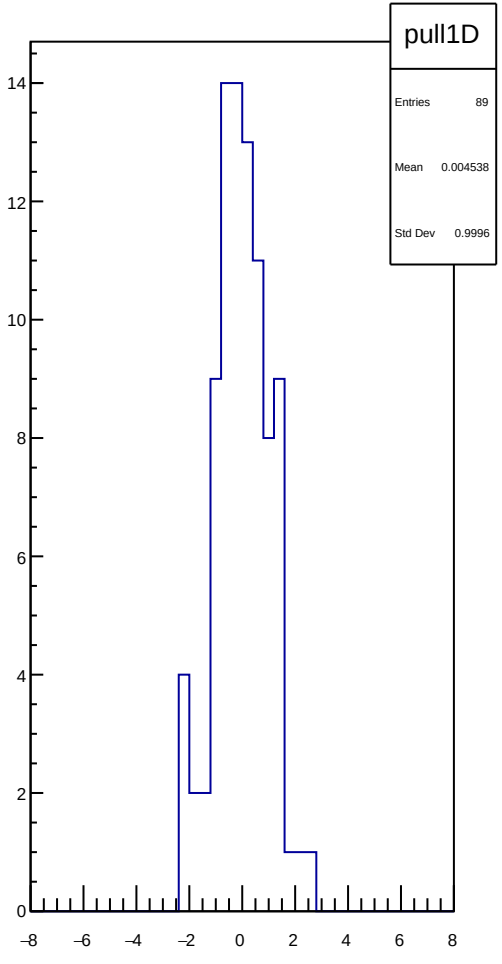

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.057e+04 / 88
p0 53.23 ± 0.04137
80
75
70
65
60
55
50
45
40

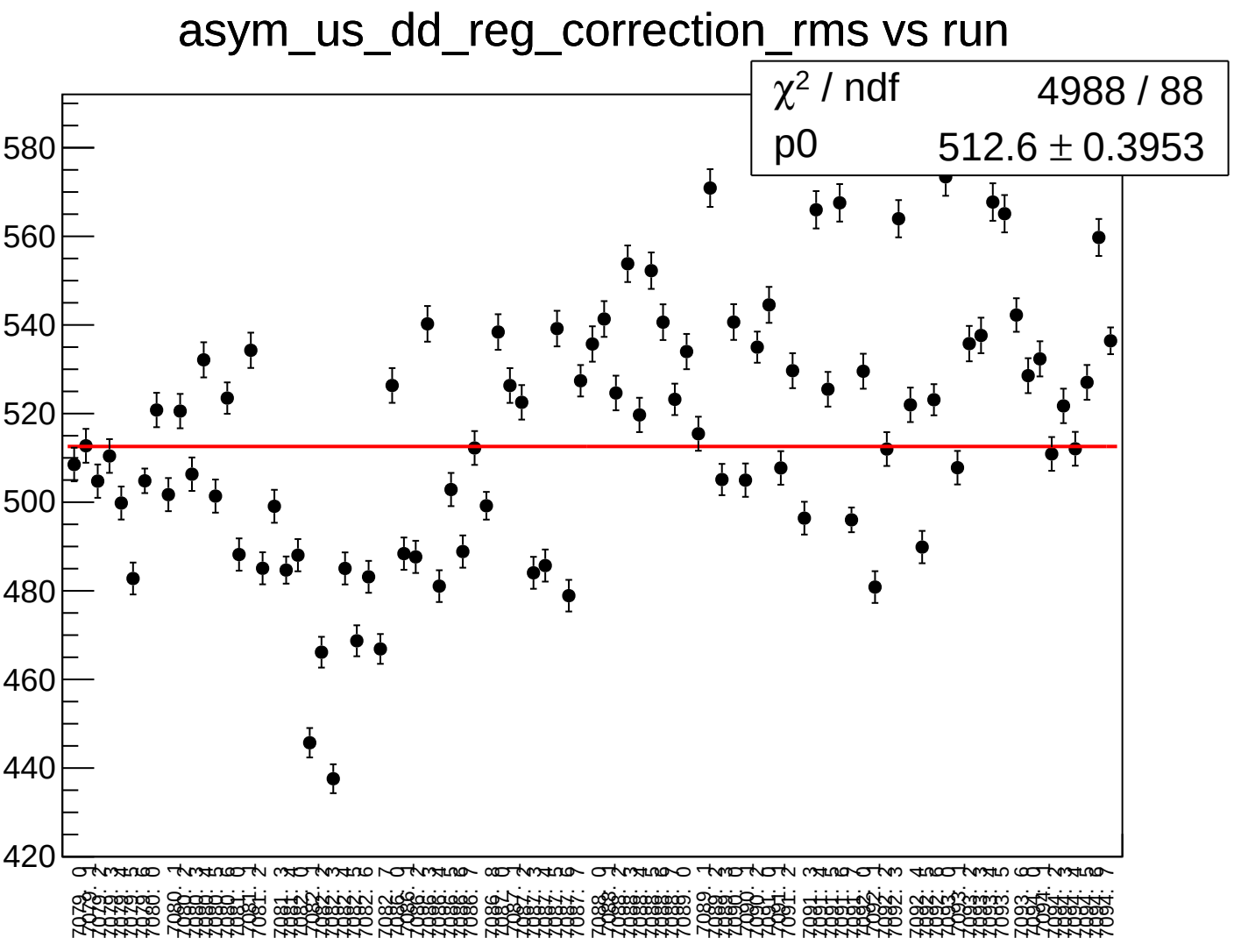

reg_asym_us_dd_mean vs run
χ² / ndf 87.85 / 88
p0 701.2 ± 841.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 3243
Std Dev 0
2
1
0
−1
−2

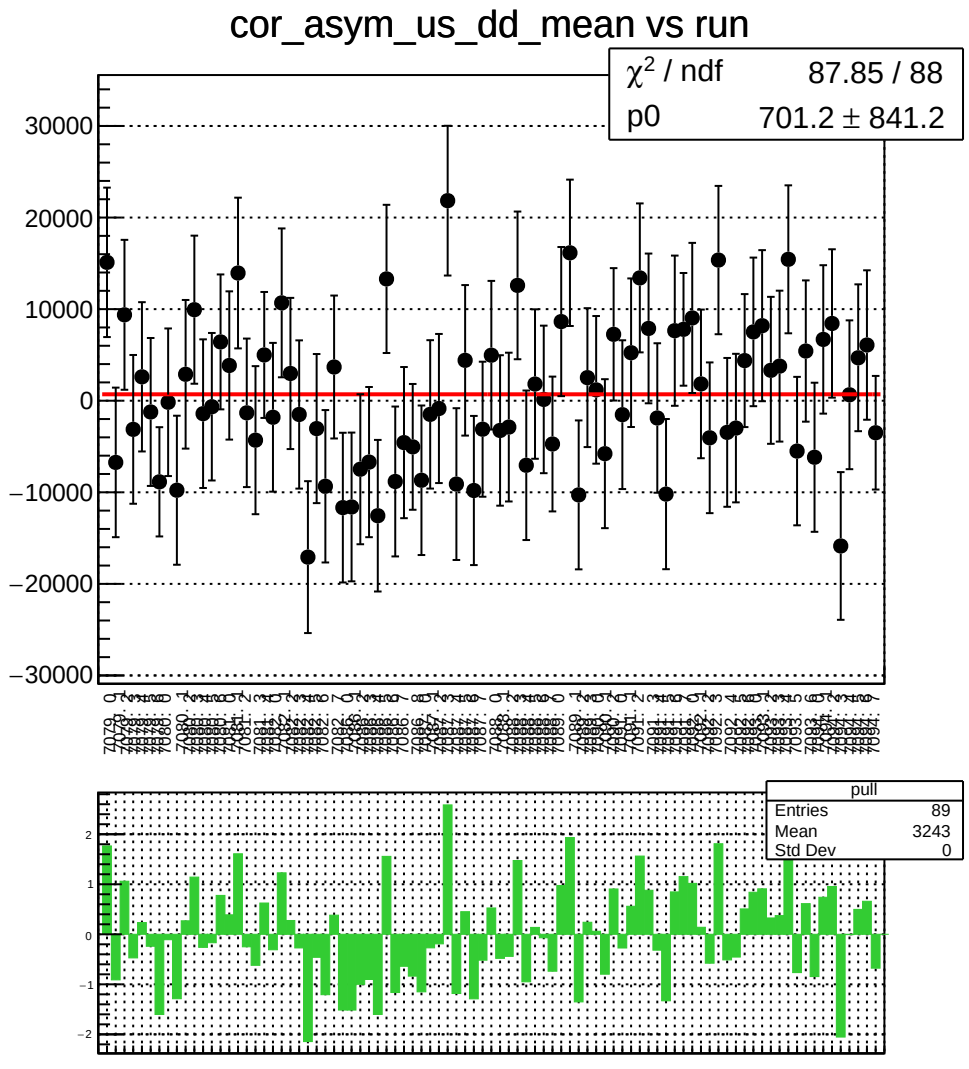

pull1D
Entries 89
Mean 0.001125
Std Dev 0.9935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

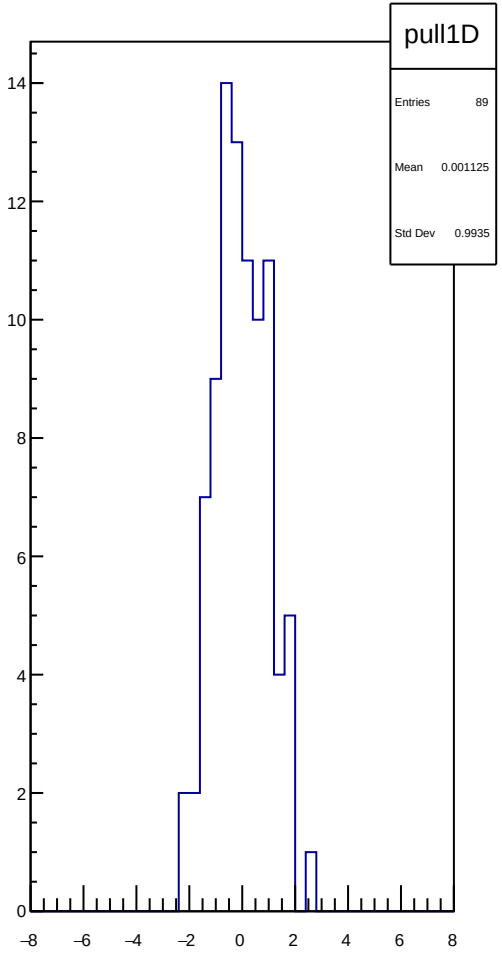

reg_asym_us_dd_rms vs run
χ² / ndf 101.2 / 88
p0 772.3 ± 0.5948
790
780
770
760
750

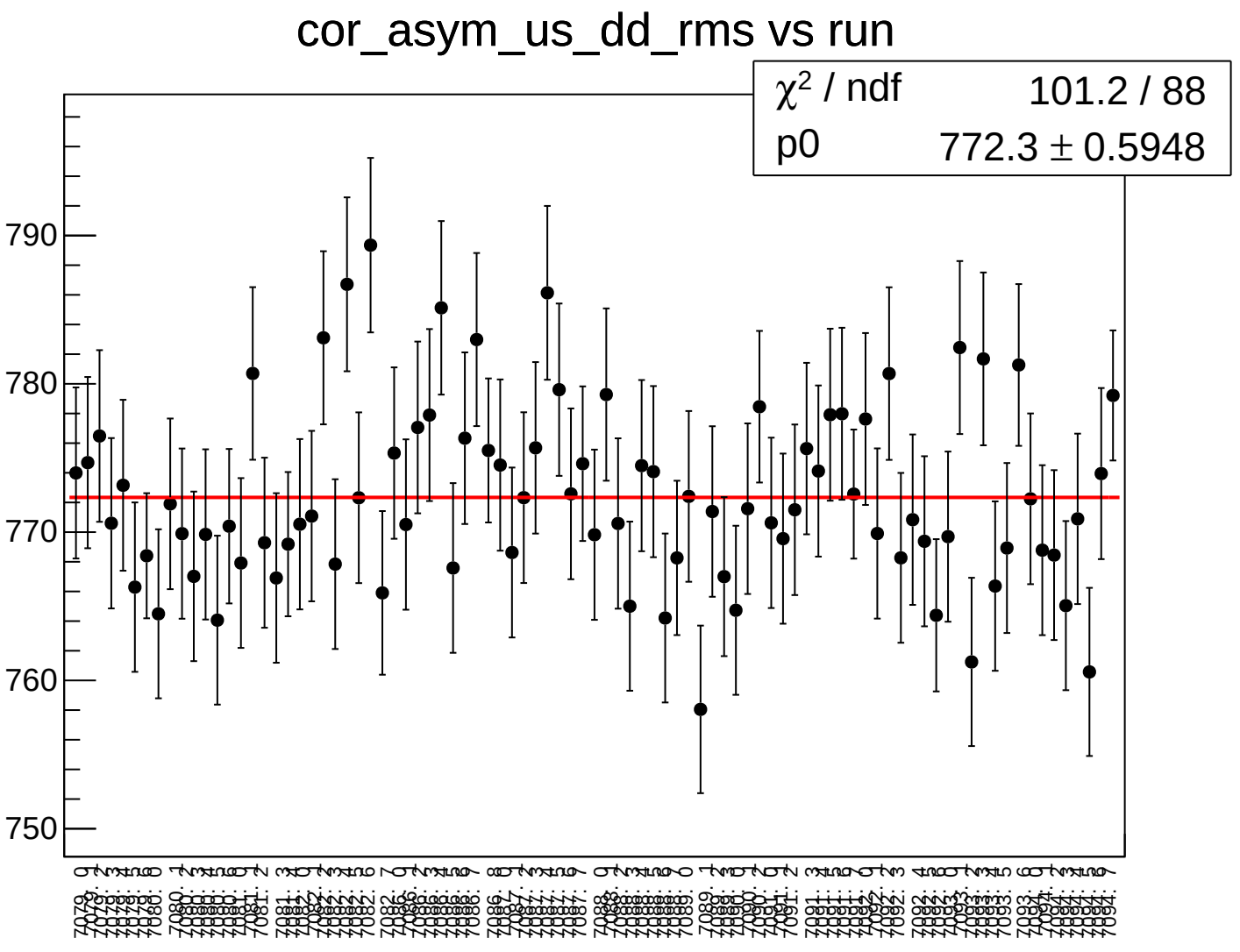

asym_us_dd_reg_correction_mean vs run
χ² / ndf 88.94 / 88
p0 −1023 ± 559.1
pull
Entries 89
Mean 733.2
Std Dev 0

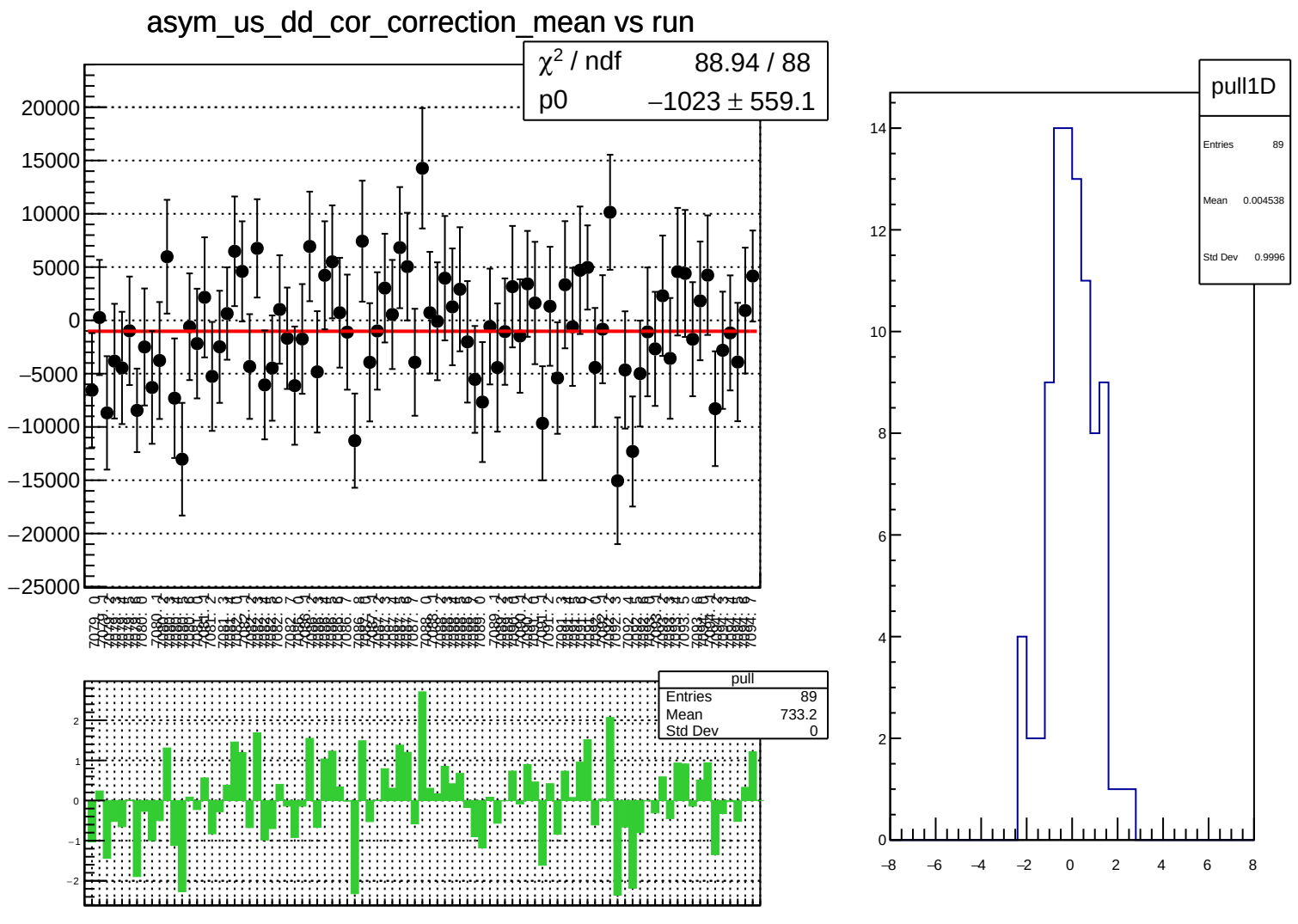

pull1D
Entries 89
Mean 0.004538
Std Dev 0.9996

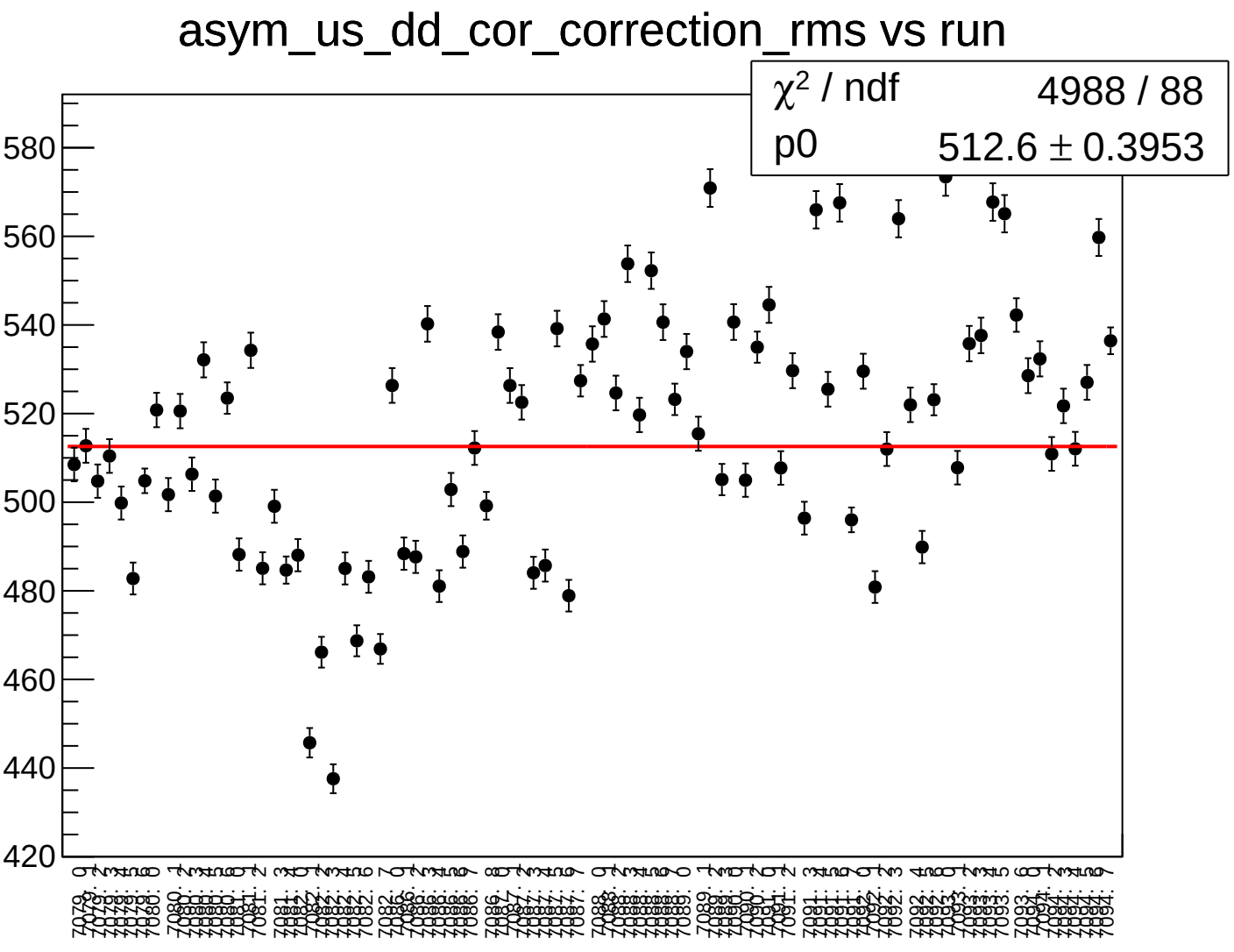

asym_us_dd_reg_correction_rms vs run
χ² / ndf 4988 / 88
p0 512.6 ± 0.3953
580
560
540
520
500
480
460
440
420

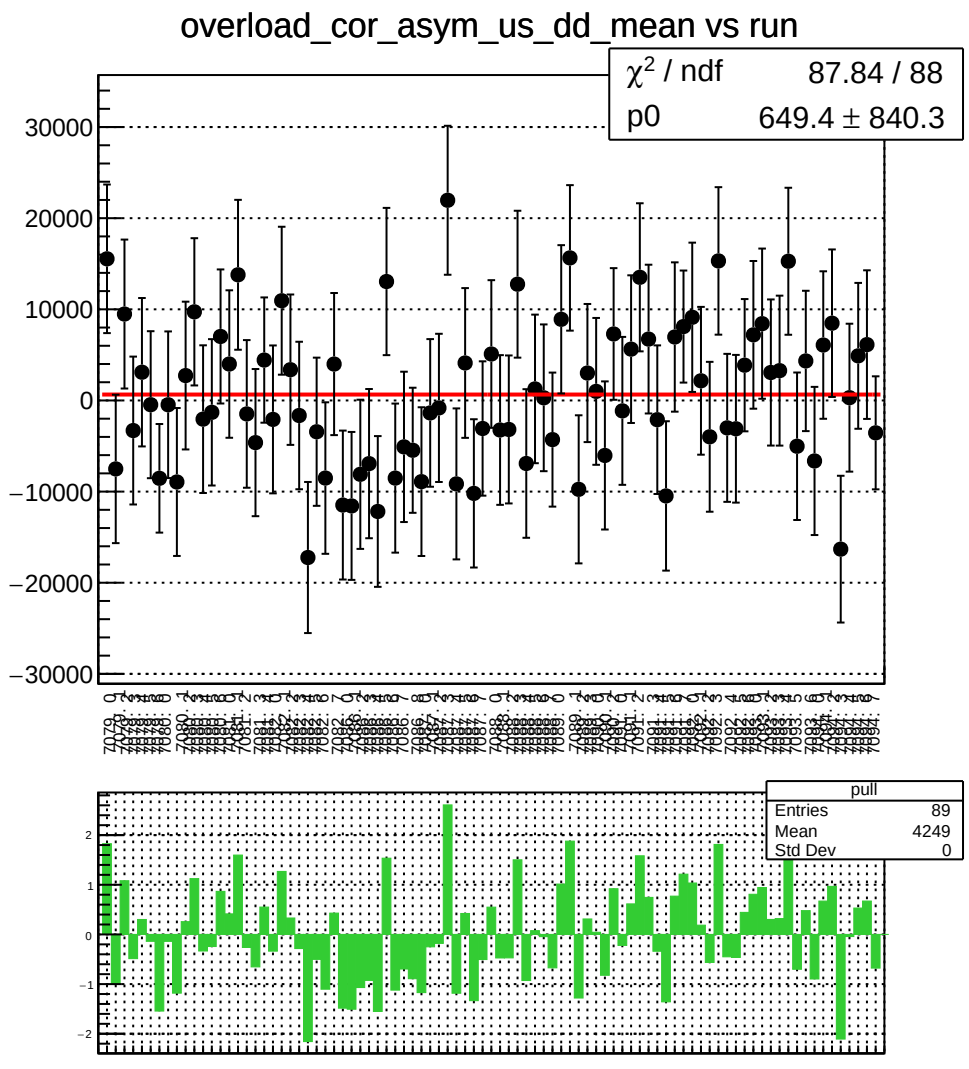

cor_asym_us_dd_mean vs run
χ² / ndf 87.85 / 88
p0 701.2 ± 841.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 3243
Std Dev 0
2
1
0
−1
−2

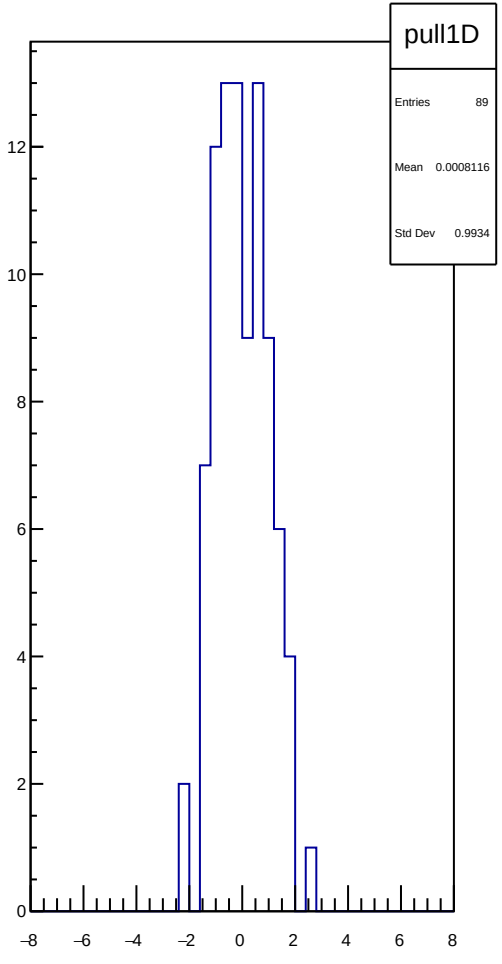

pull1D
Entries 89
Mean 0.001125
Std Dev 0.9935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

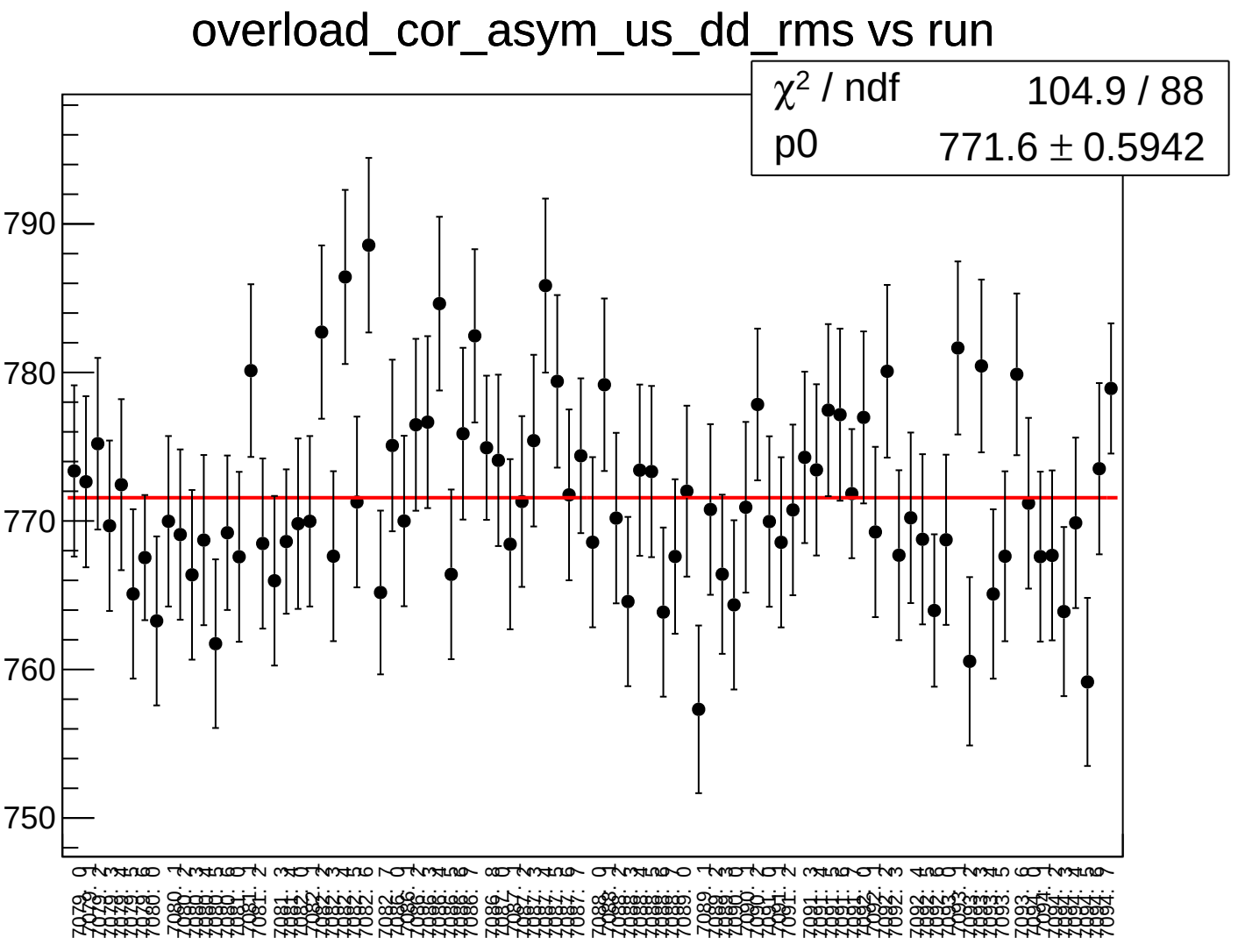

cor_asym_us_dd_rms vs run
χ² / ndf 101.2 / 88
p0 772.3 ± 0.5948
790
780
770
760
750

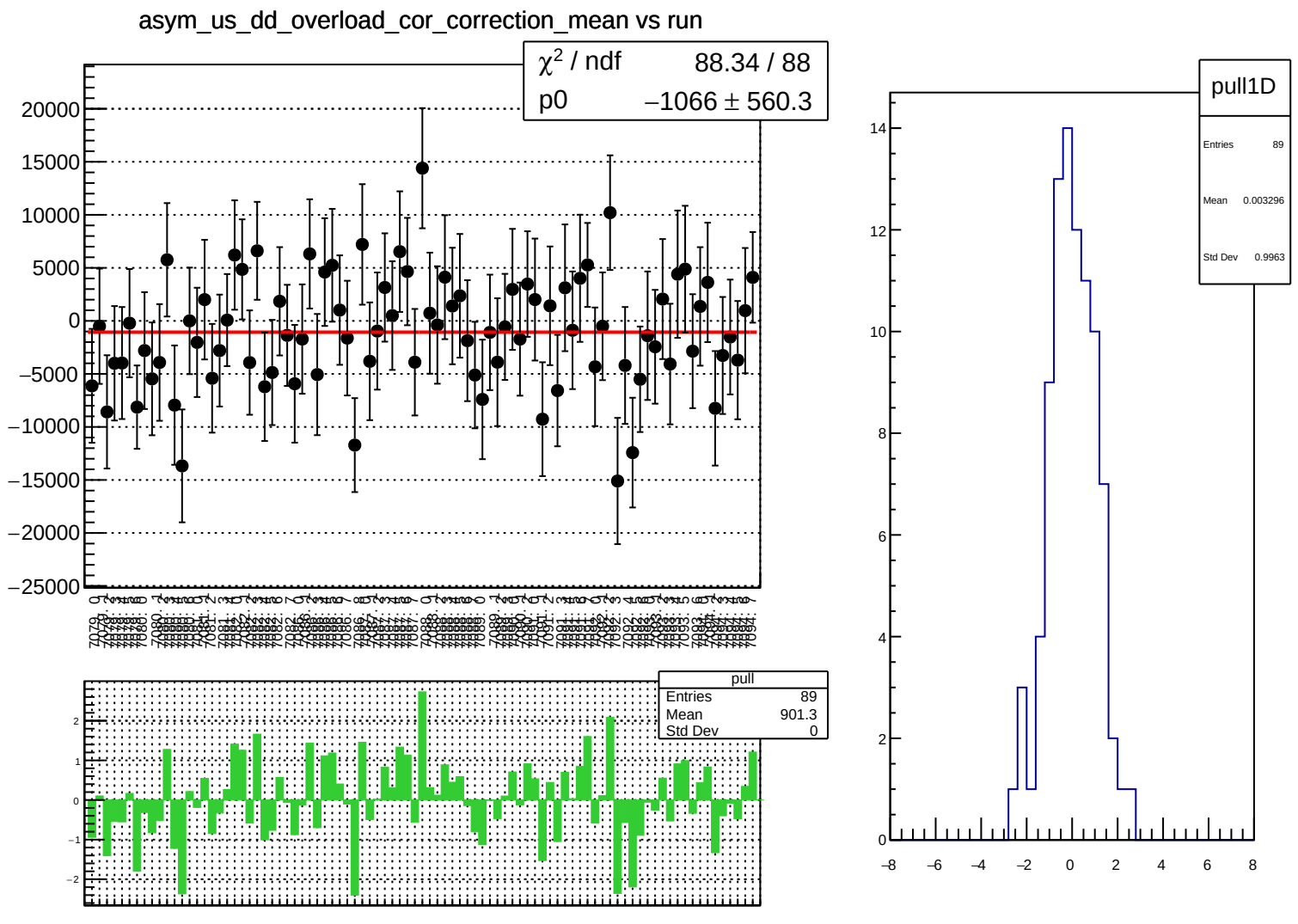

asym_us_dd_cor_correction_mean vs run
χ² / ndf 88.94 / 88
p0 −1023 ± 559.1
pull
Entries 89
Mean 733.2
Std Dev 0
pull1D
Entries 89
Mean 0.004538
Std Dev 0.9996

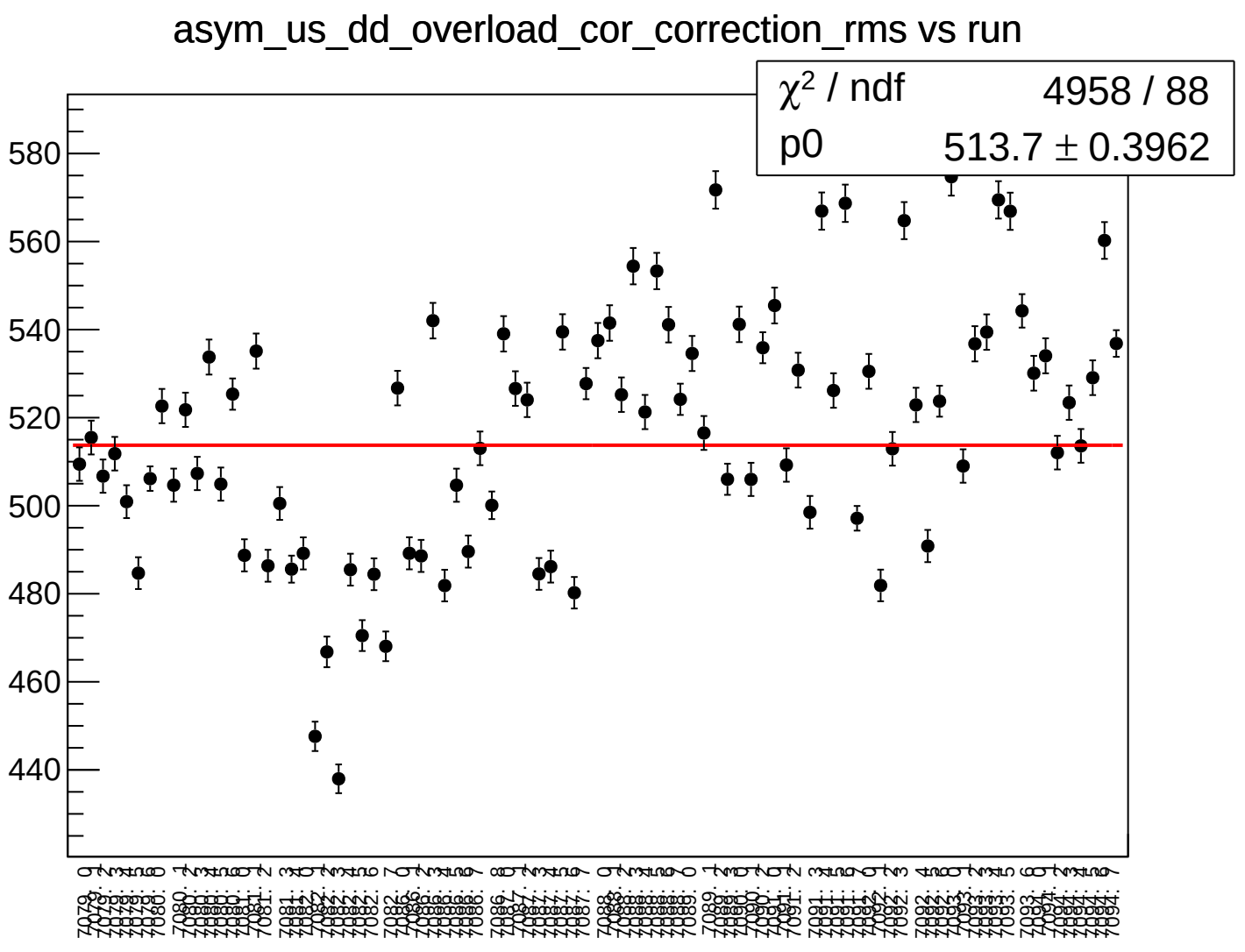

asym_us_dd_cor_correction_rms vs run
χ² / ndf 4988 / 88
p0 512.6 ± 0.3953
580
560
540
520
500
480
460
440
420

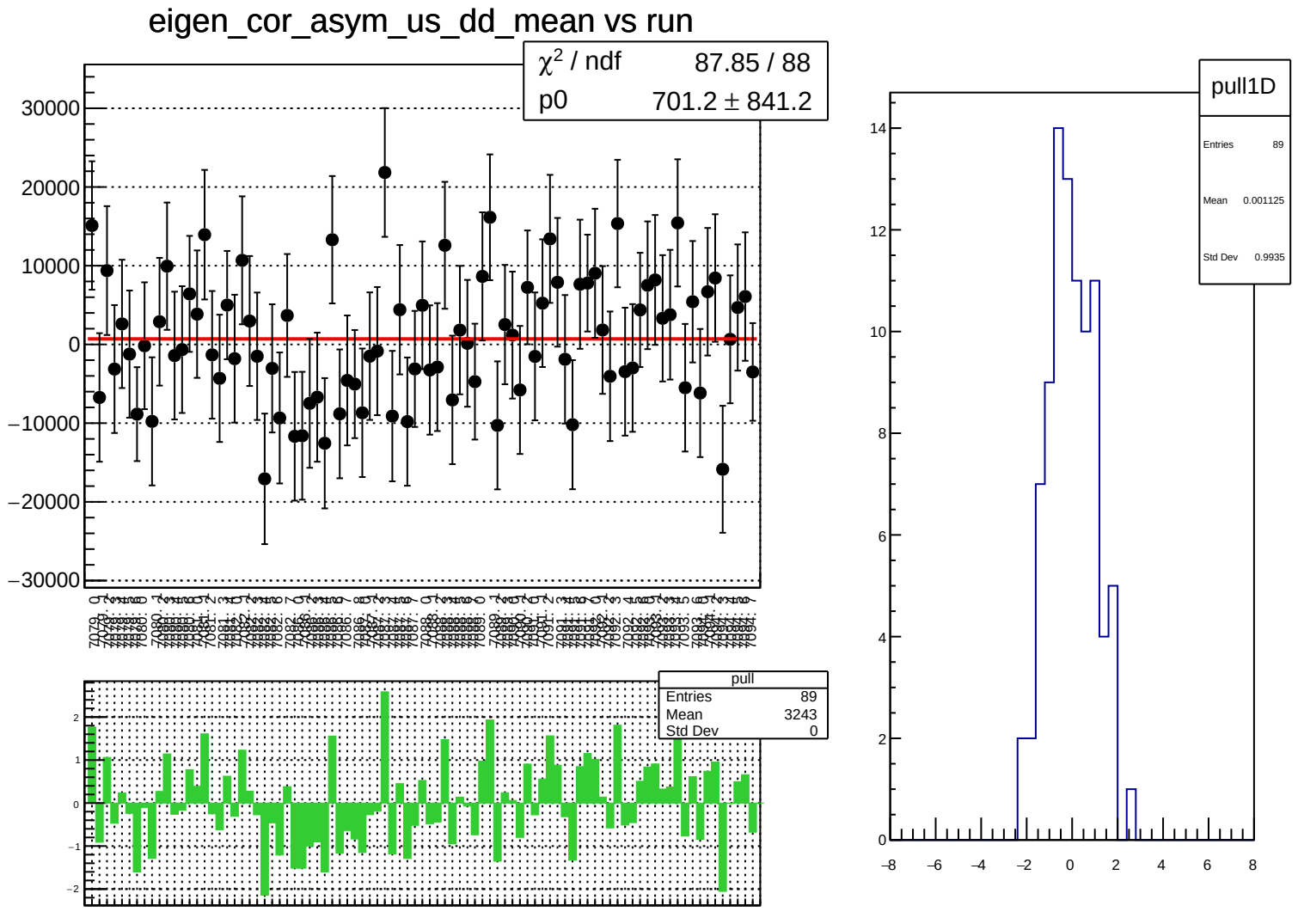

overload_cor_asym_us_dd_mean vs run
χ² / ndf 87.84 / 88
p0 649.4 ± 840.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 4249
Std Dev 0
2
1
0
−1
−2

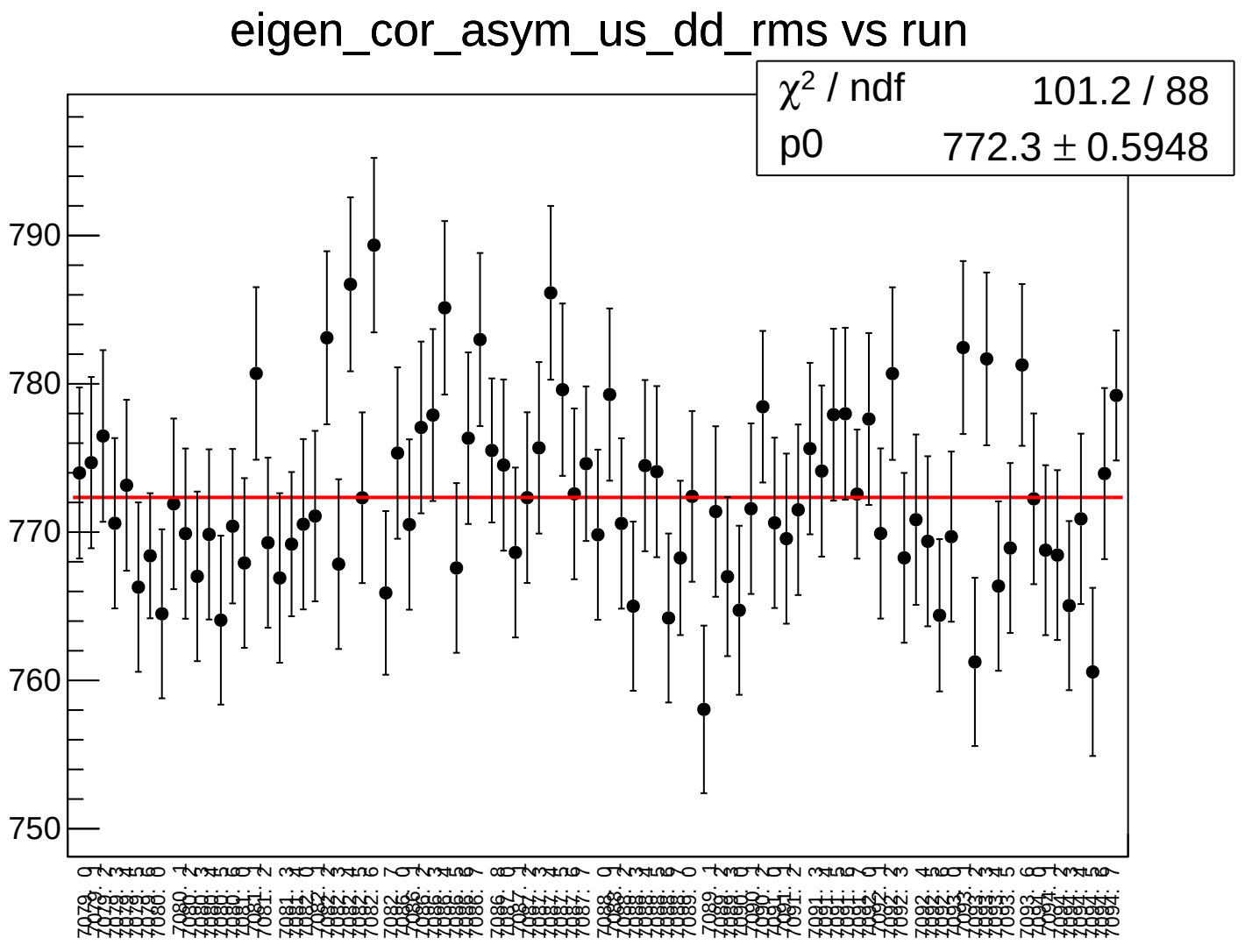

pull1D
Entries 89
Mean 0.0008116
Std Dev 0.9934
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

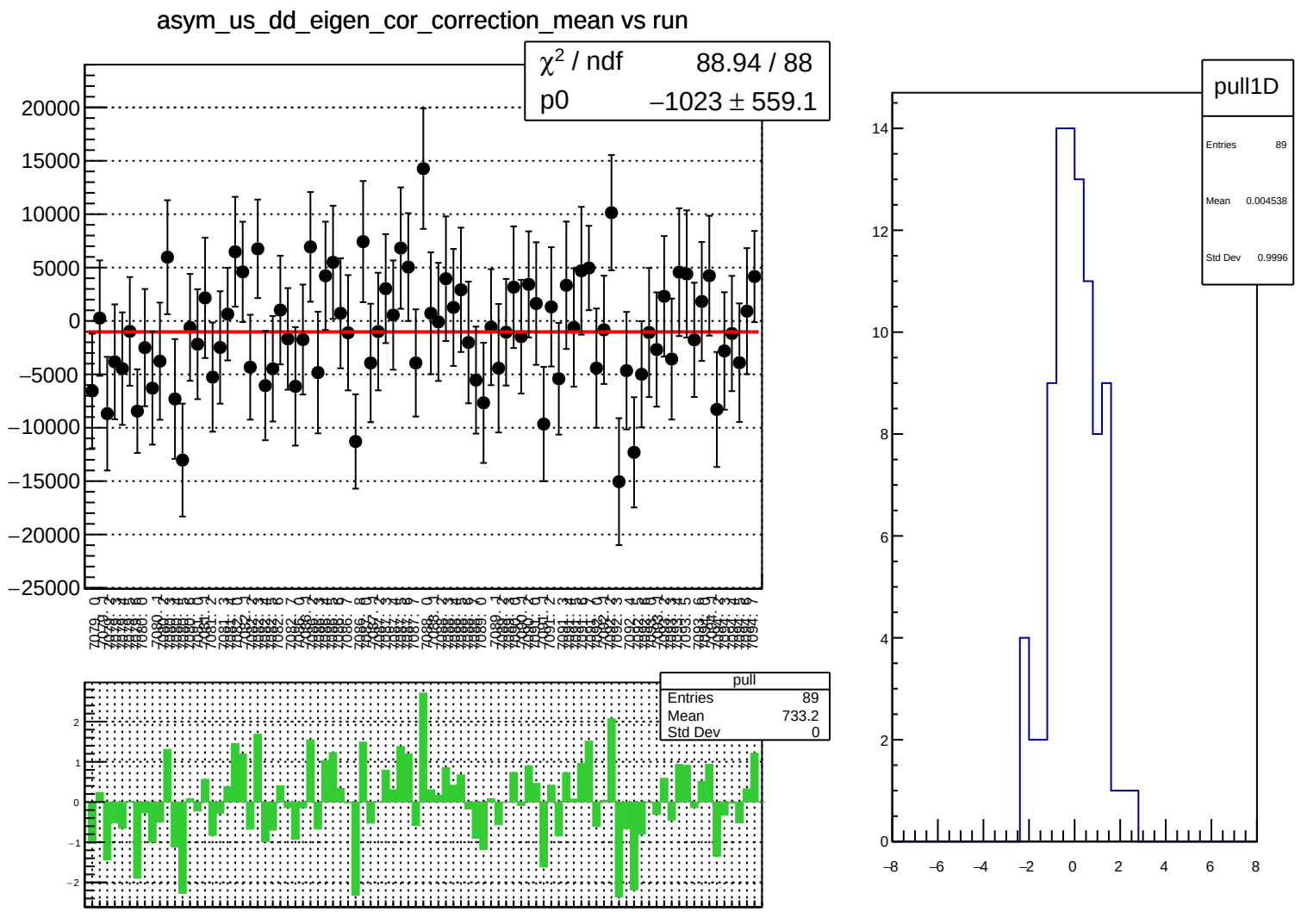

overload_cor_asym_us_dd_rms vs run
χ² / ndf 104.9 / 88
p0 771.6 ± 0.5942
790
780
770
760
750

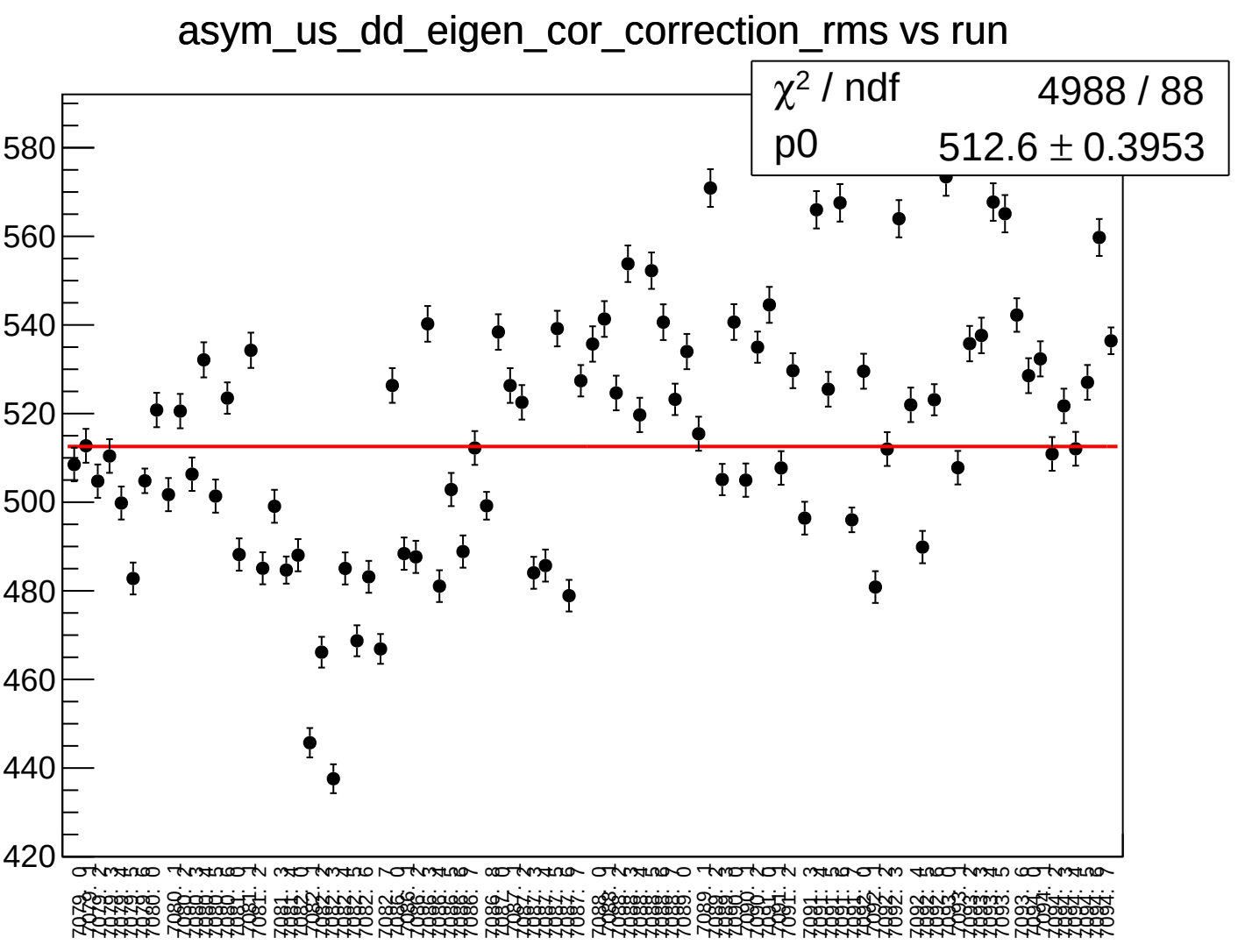

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 88.34 / 88
p0 −1066 ± 560.3
pull
Entries 89
Mean 901.3
Std Dev 0
pull1D
Entries 89
Mean 0.003296
Std Dev 0.9963

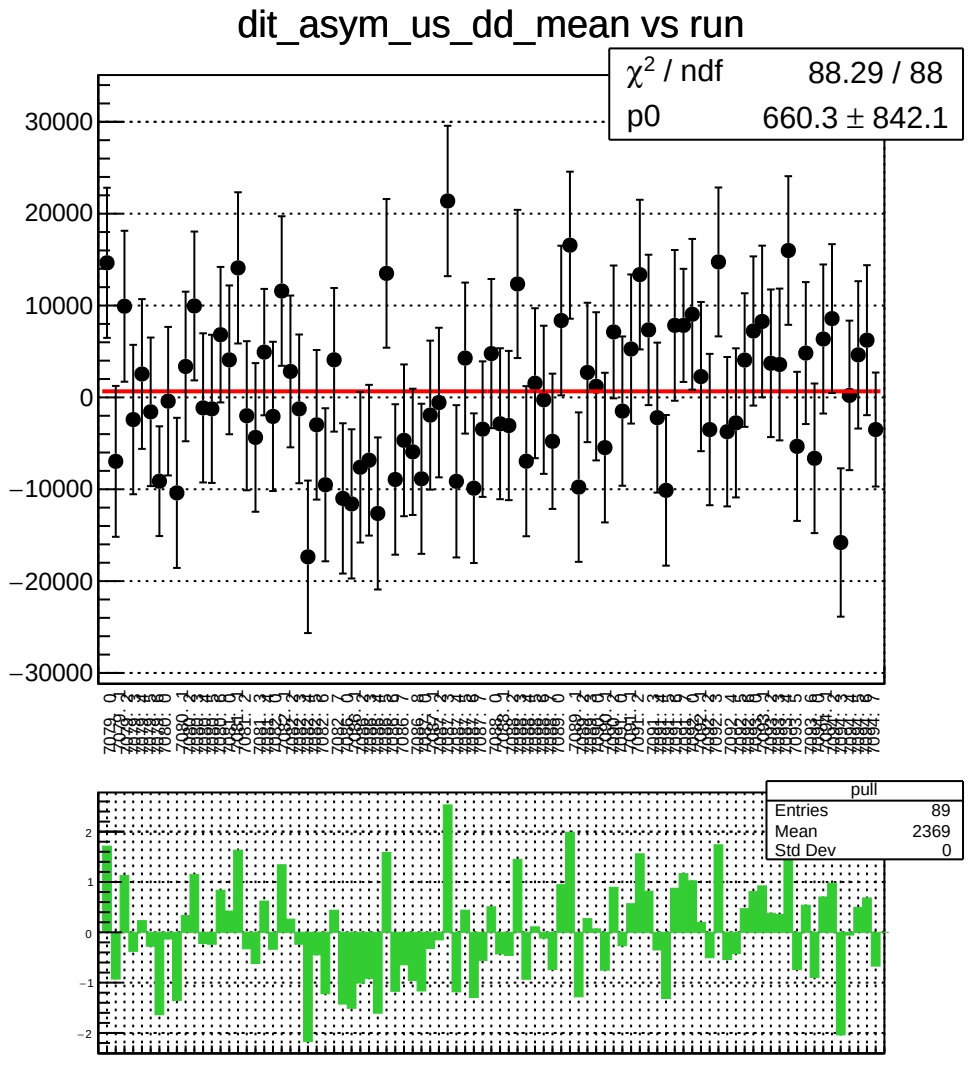

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 4958 / 88
p0 513.7 ± 0.3962
580
560
540
520
500
480
460
440

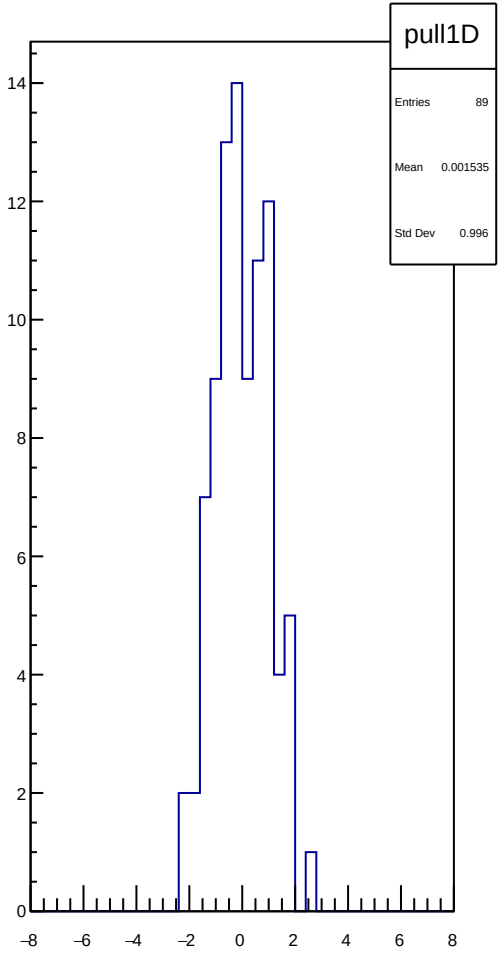

eigen_cor_asym_us_dd_mean vs run
χ^2 / ndf 87.85 / 88
p0 701.2 ± 841.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 3243
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.001125
Std Dev 0.9935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

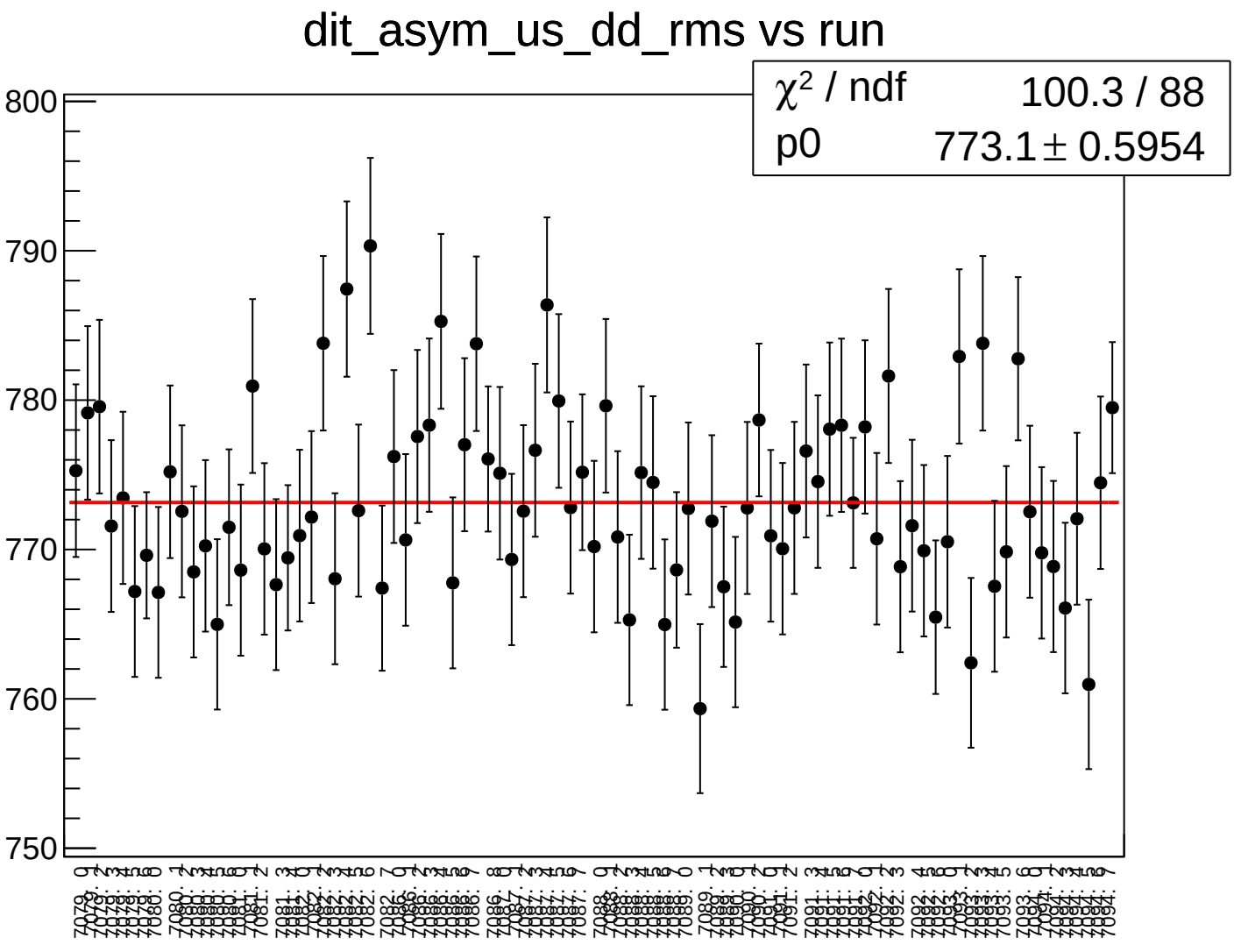

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 101.2 / 88
p0 772.3 ± 0.5948
790
780
770
760
750

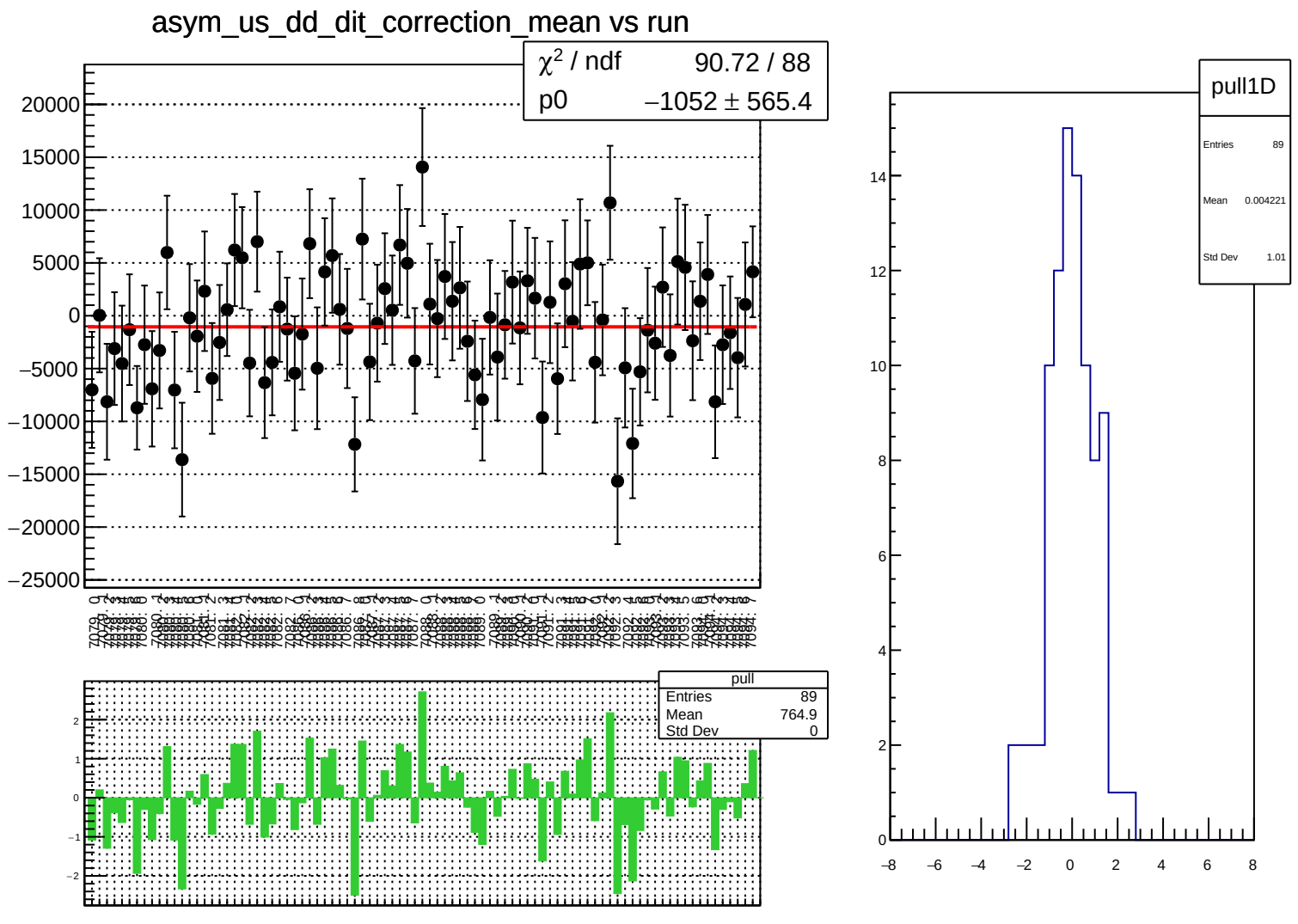

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.94 / 88
p0 −1023 ± 559.1
pull
Entries 89
Mean 733.2
Std Dev 0
pull1D
Entries 89
Mean 0.004538
Std Dev 0.9996

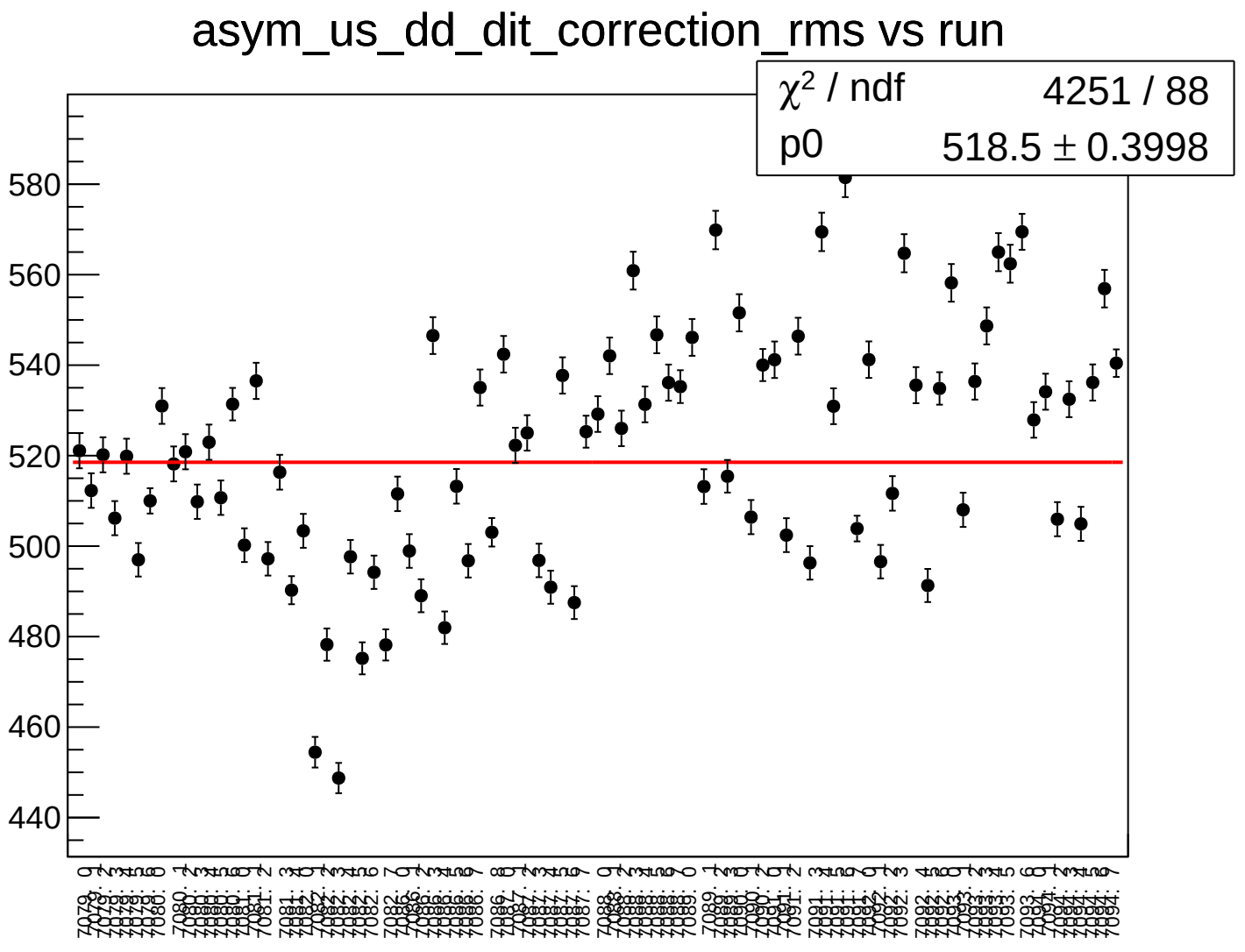

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 4988 / 88
p0 512.6 ± 0.3953
580
560
540
520
500
480
460
440
420

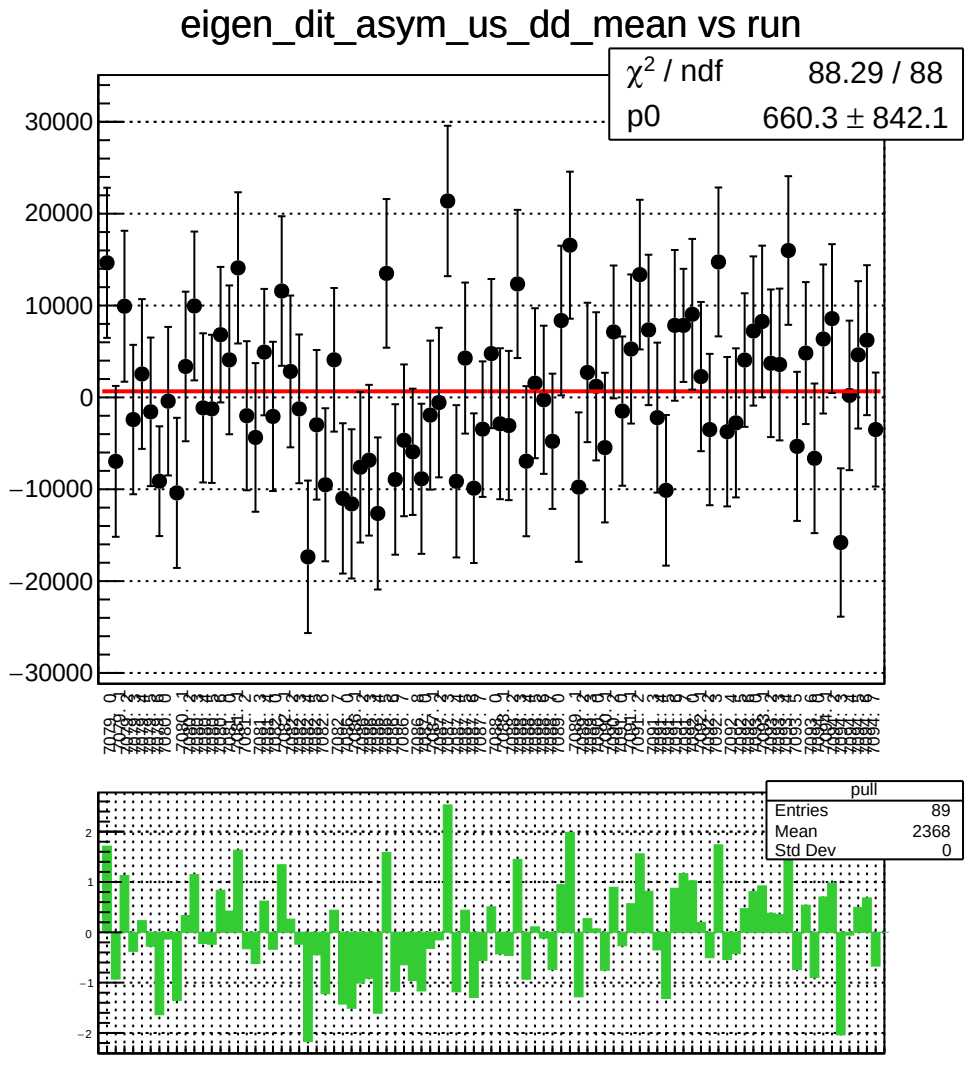

dit_asym_us_dd_mean vs run
χ² / ndf 88.29 / 88
p0 660.3 ± 842.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 2369
Std Dev 0
2
1
0
−1
−2

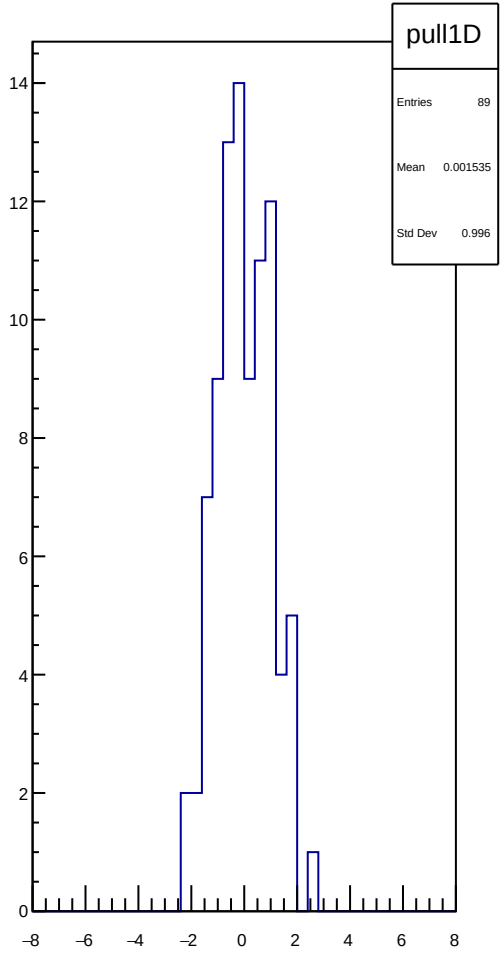

pull1D
Entries 89
Mean 0.001535
Std Dev 0.996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

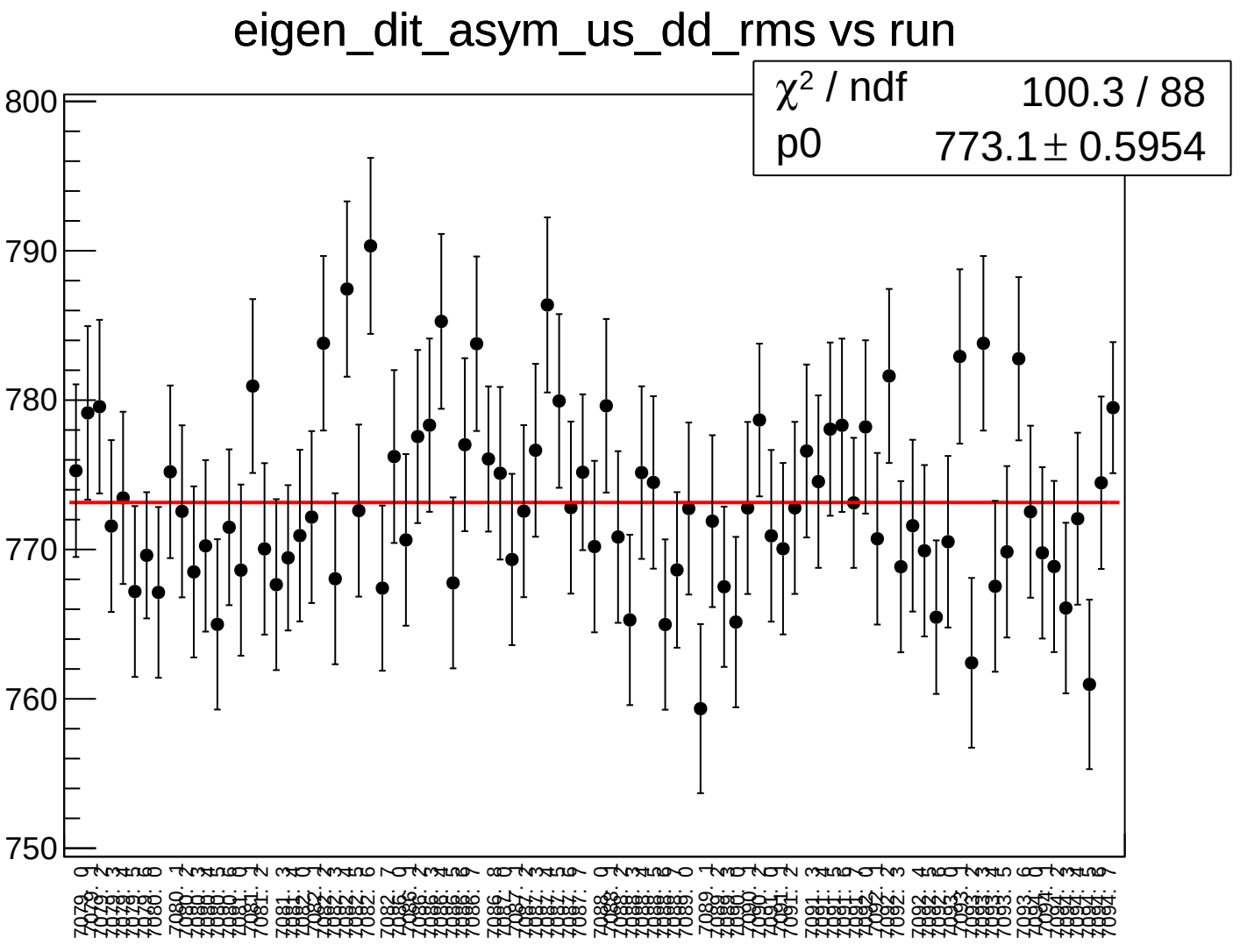

dit_asym_us_dd_rms vs run
χ² / ndf 100.3 / 88
p0 773.1 ± 0.5954
800
790
780
770
760
750

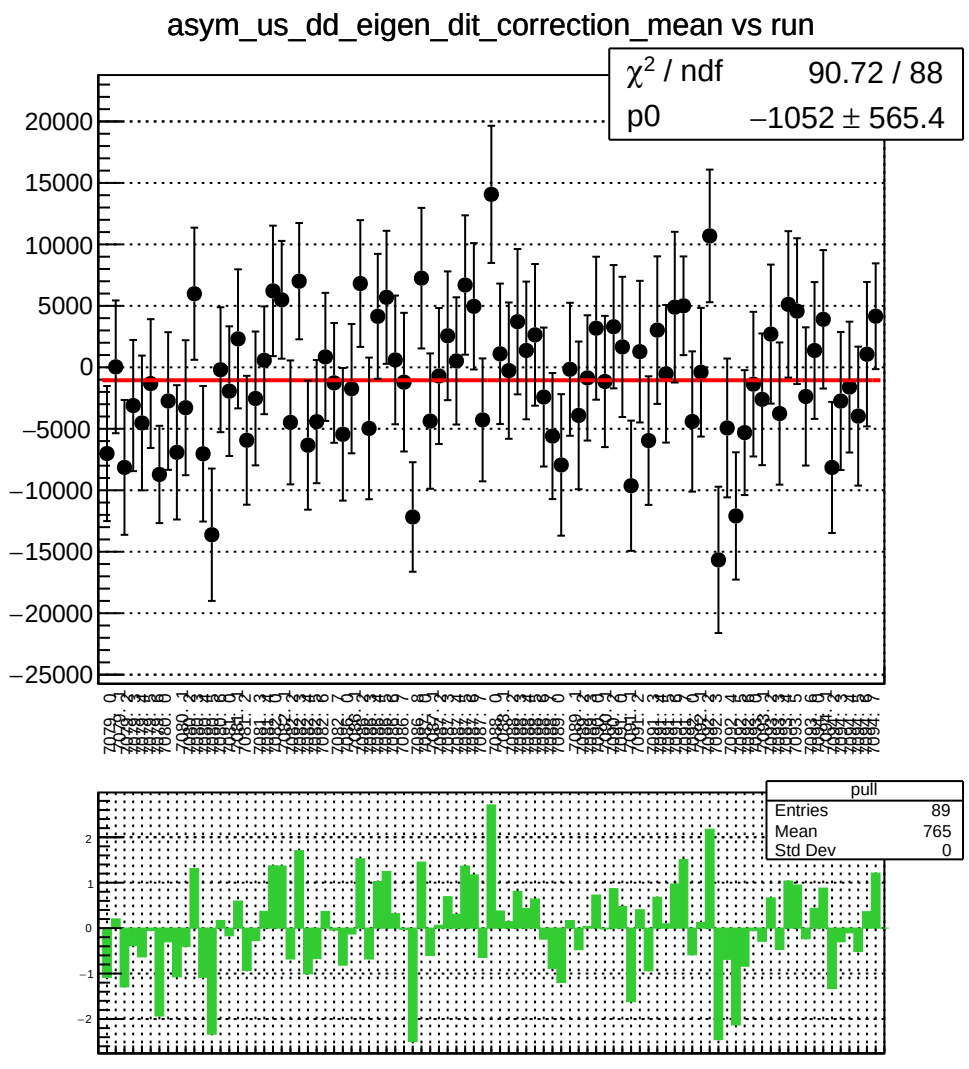

asym_us_dd_dit_correction_mean vs run
χ² / ndf 90.72 / 88
p0 −1052 ± 565.4
pull
Entries 89
Mean 764.9
Std Dev 0
pull1D
Entries 89
Mean 0.004221
Std Dev 1.01

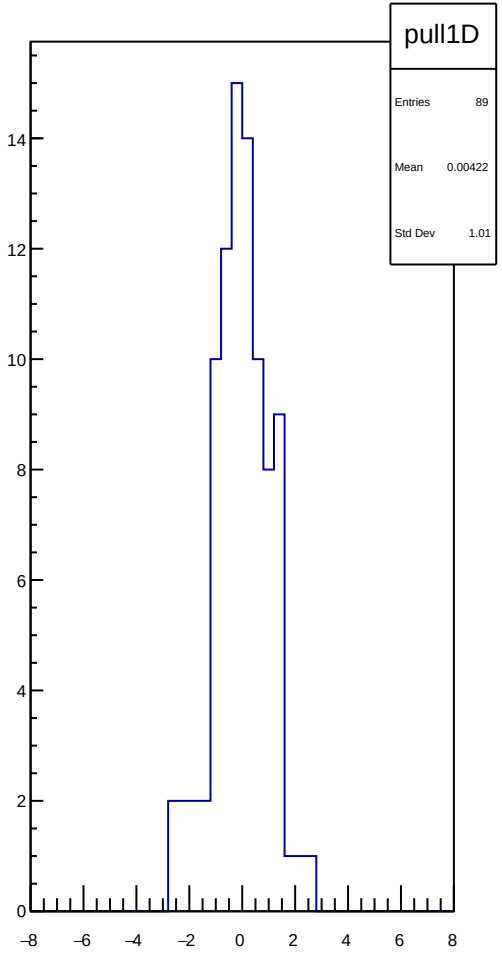

asym_us_dd_dit_correction_rms vs run
χ² / ndf 4251 / 88
p0 518.5 ± 0.3998
580
560
540
520
500
480
460
440

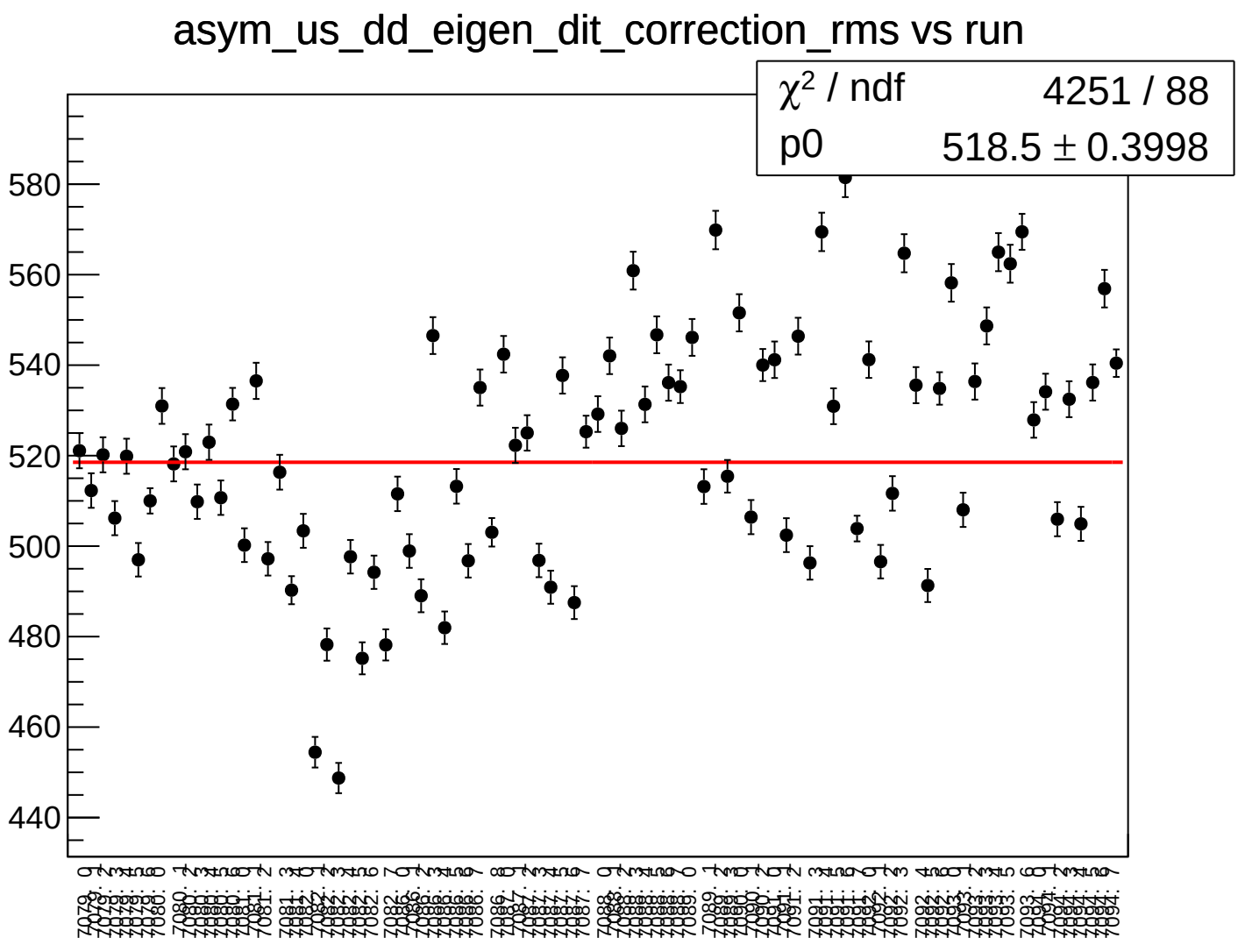

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 88.29 / 88
p0 660.3 ± 842.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 2368
Std Dev 0
2
1
0
−1
−2

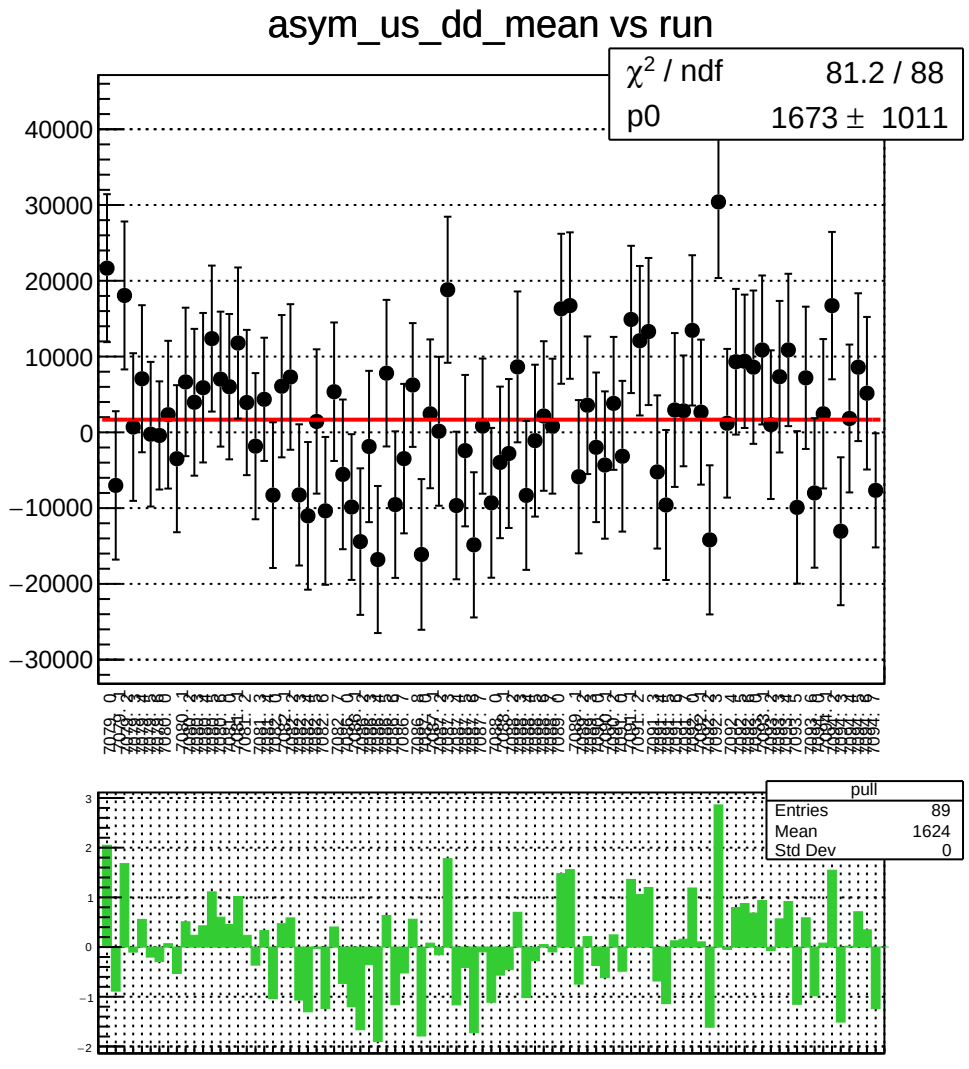

pull1D
Entries 89
Mean 0.001535
Std Dev 0.996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

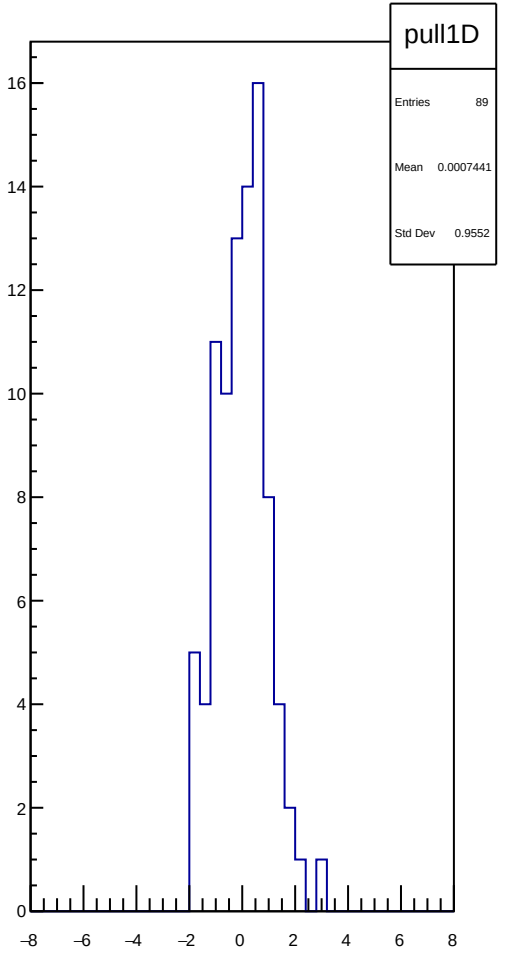

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 100.3 / 88
p0 773.1 ± 0.5954
800
790
780
770
760
750

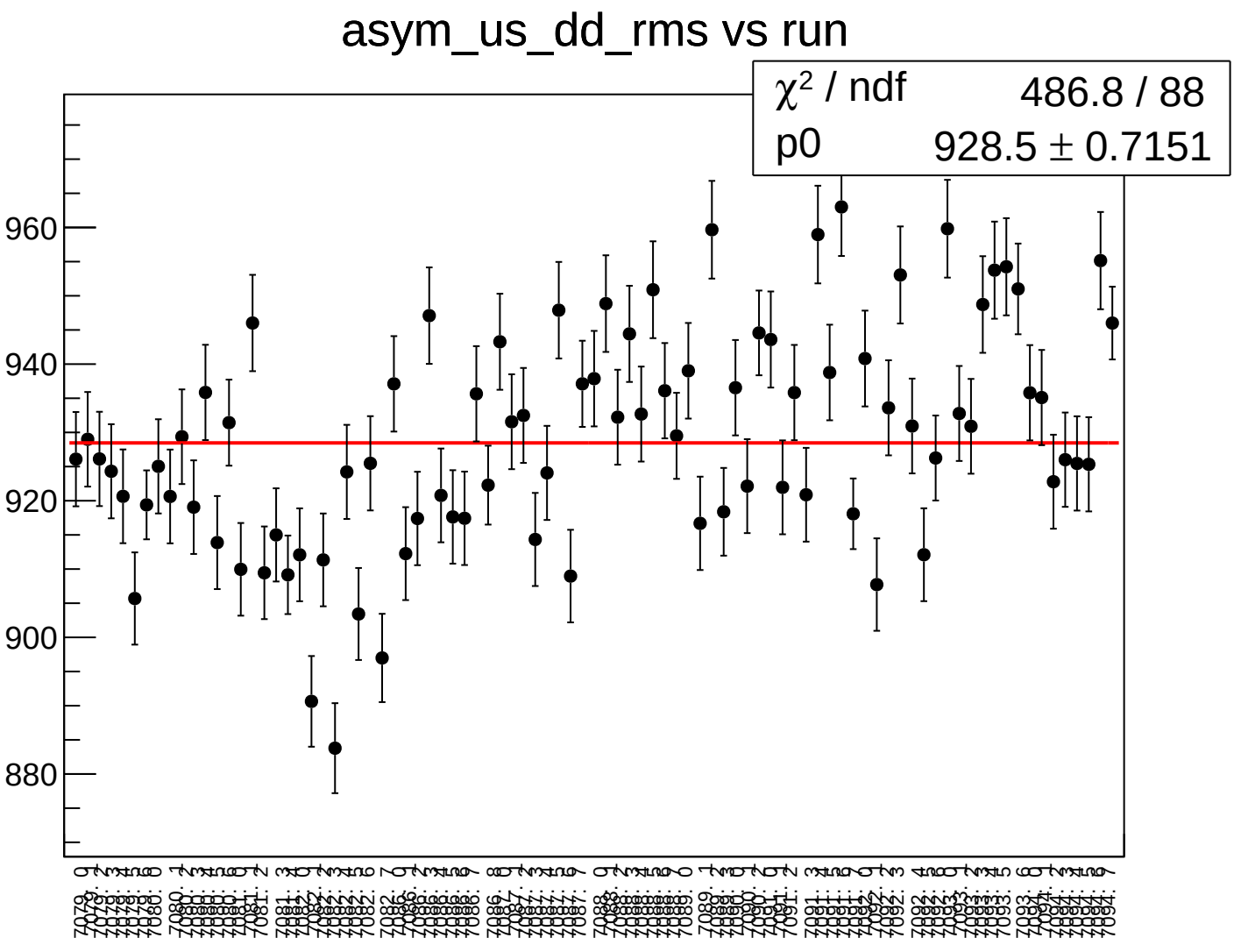

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.72 / 88
p0 −1052 ± 565.4
pull
Entries 89
Mean 765
Std Dev 0

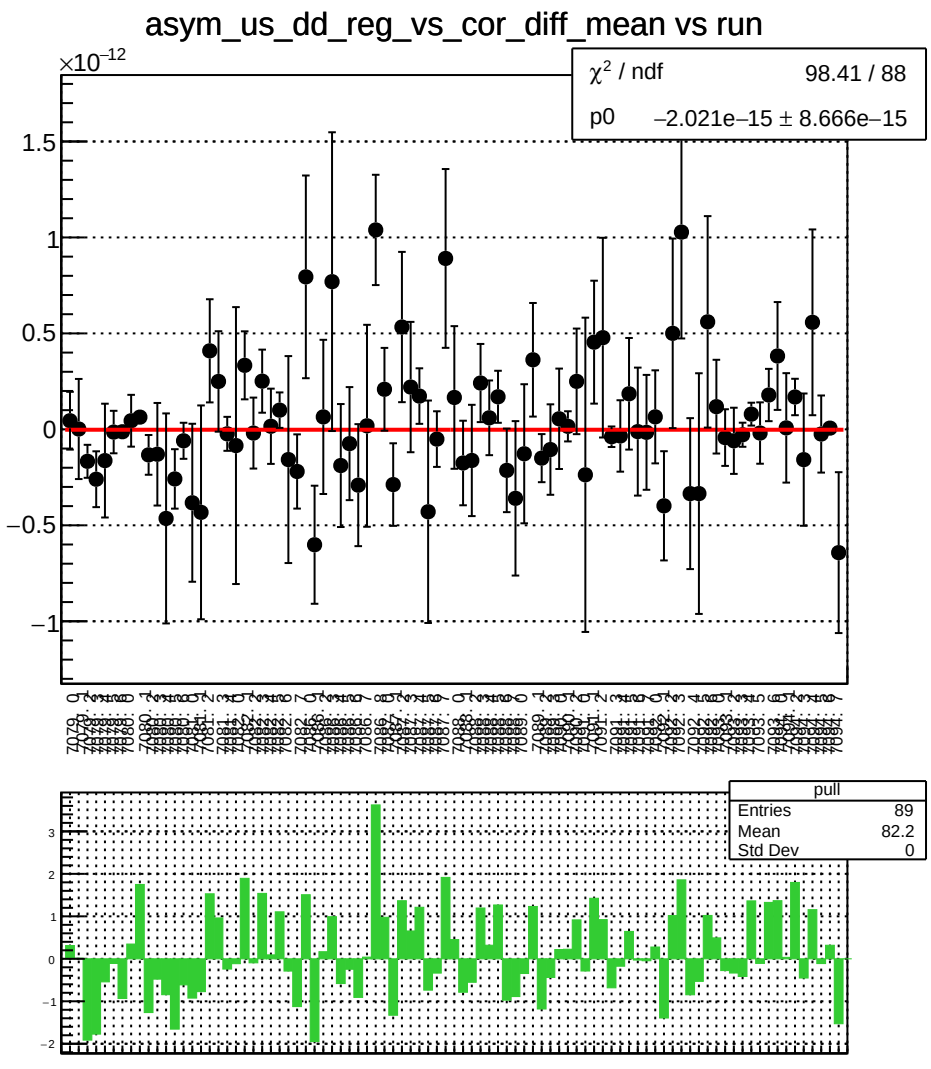

pull1D
Entries 89
Mean 0.00422
Std Dev 1.01

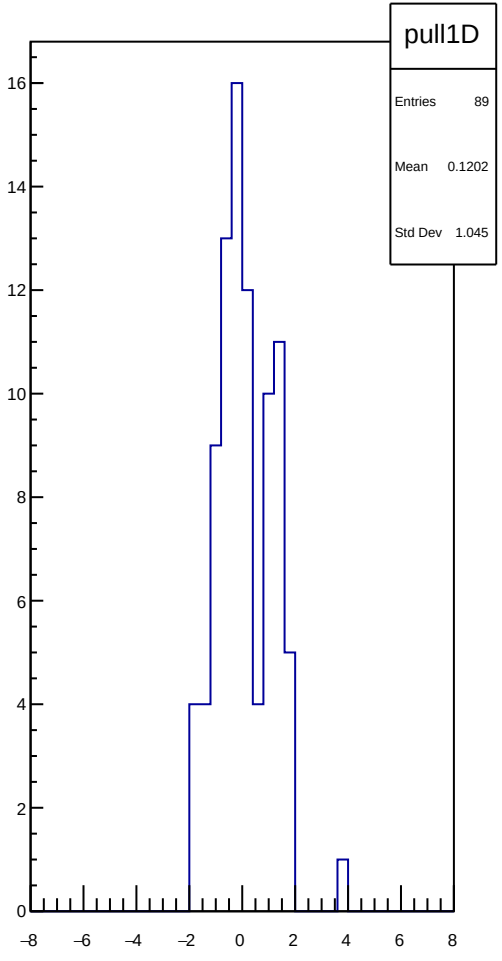

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 4251 / 88
p0 518.5 ± 0.3998
580
560
540
520
500
480
460
440

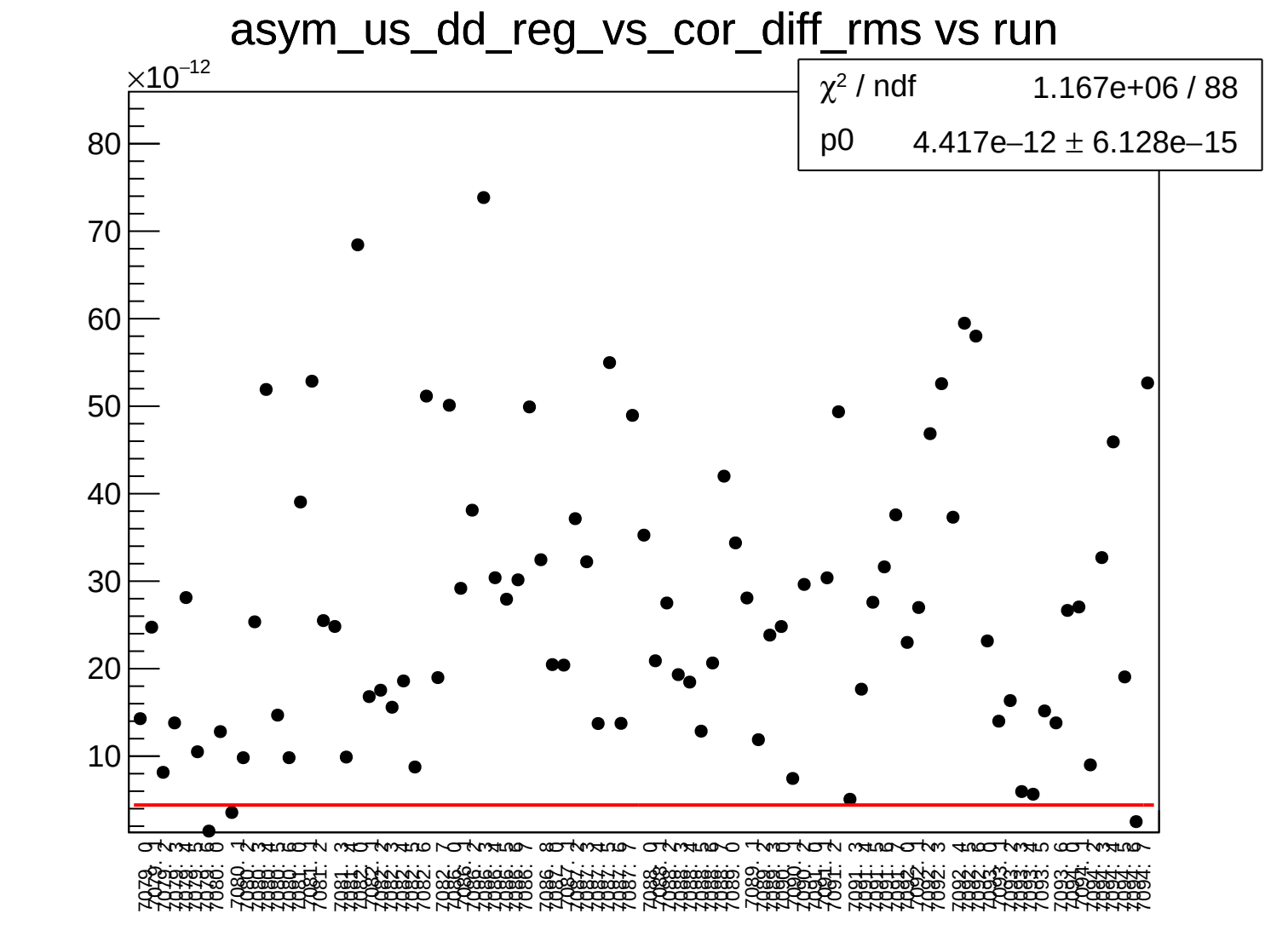

asym_us_dd_mean vs run
χ² / ndf 81.2 / 88
p0 1673 ± 1011
pull
Entries 89
Mean 1624
Std Dev 0

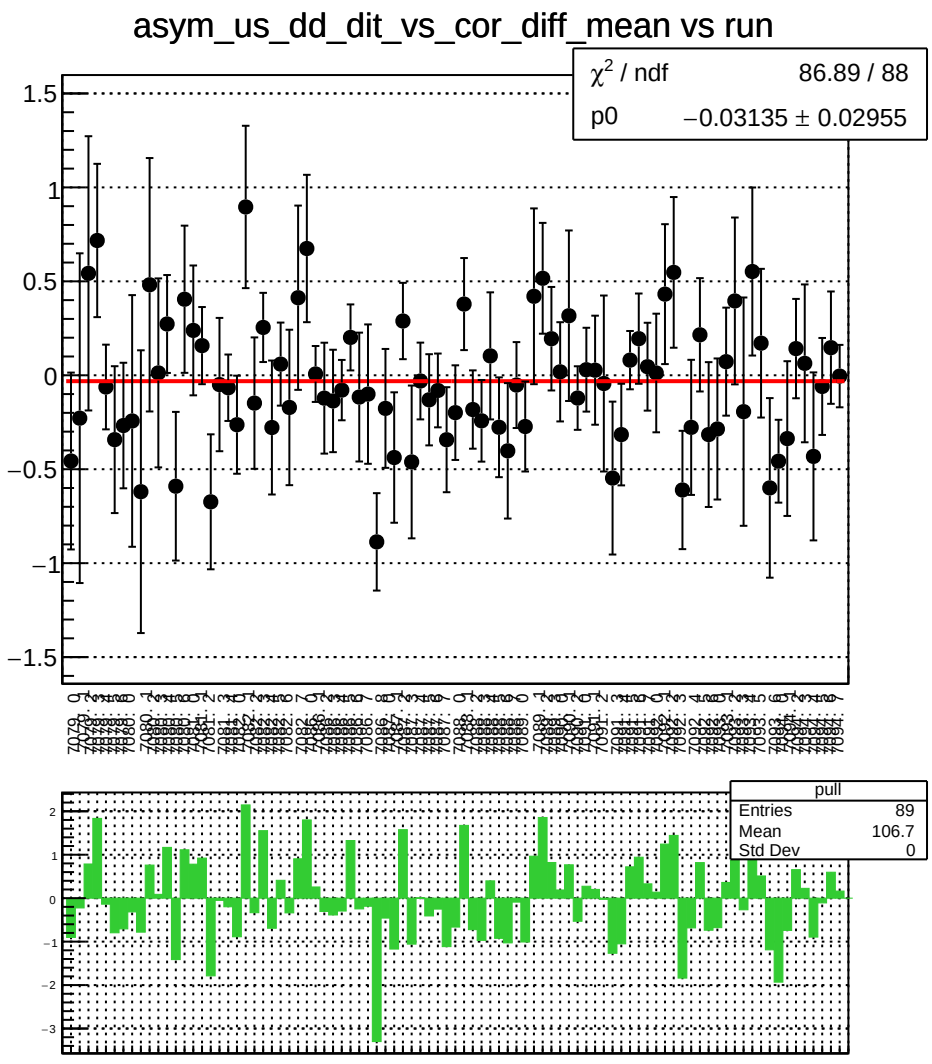

pull1D
Entries 89
Mean 0.0007441
Std Dev 0.9552

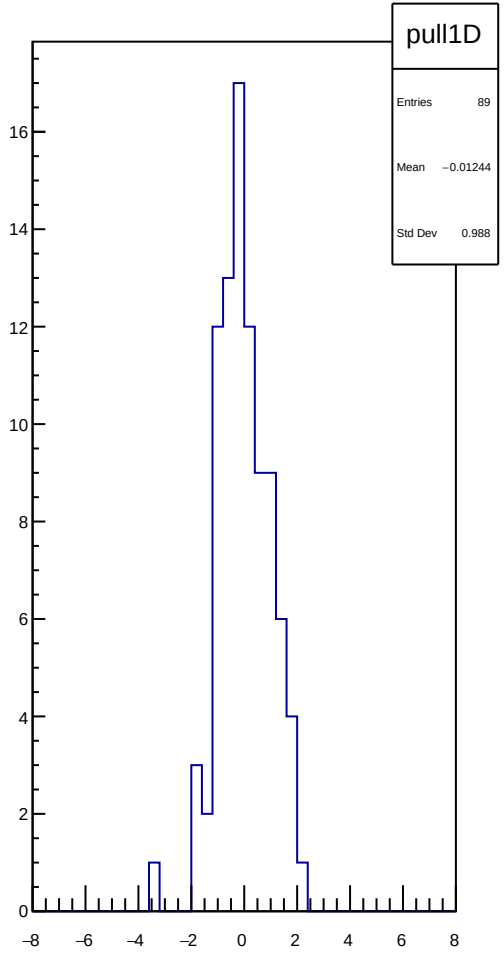

asym_us_dd_rms vs run
χ² / ndf 486.8 / 88
p0 928.5 ± 0.7151
960
940
920
900
880

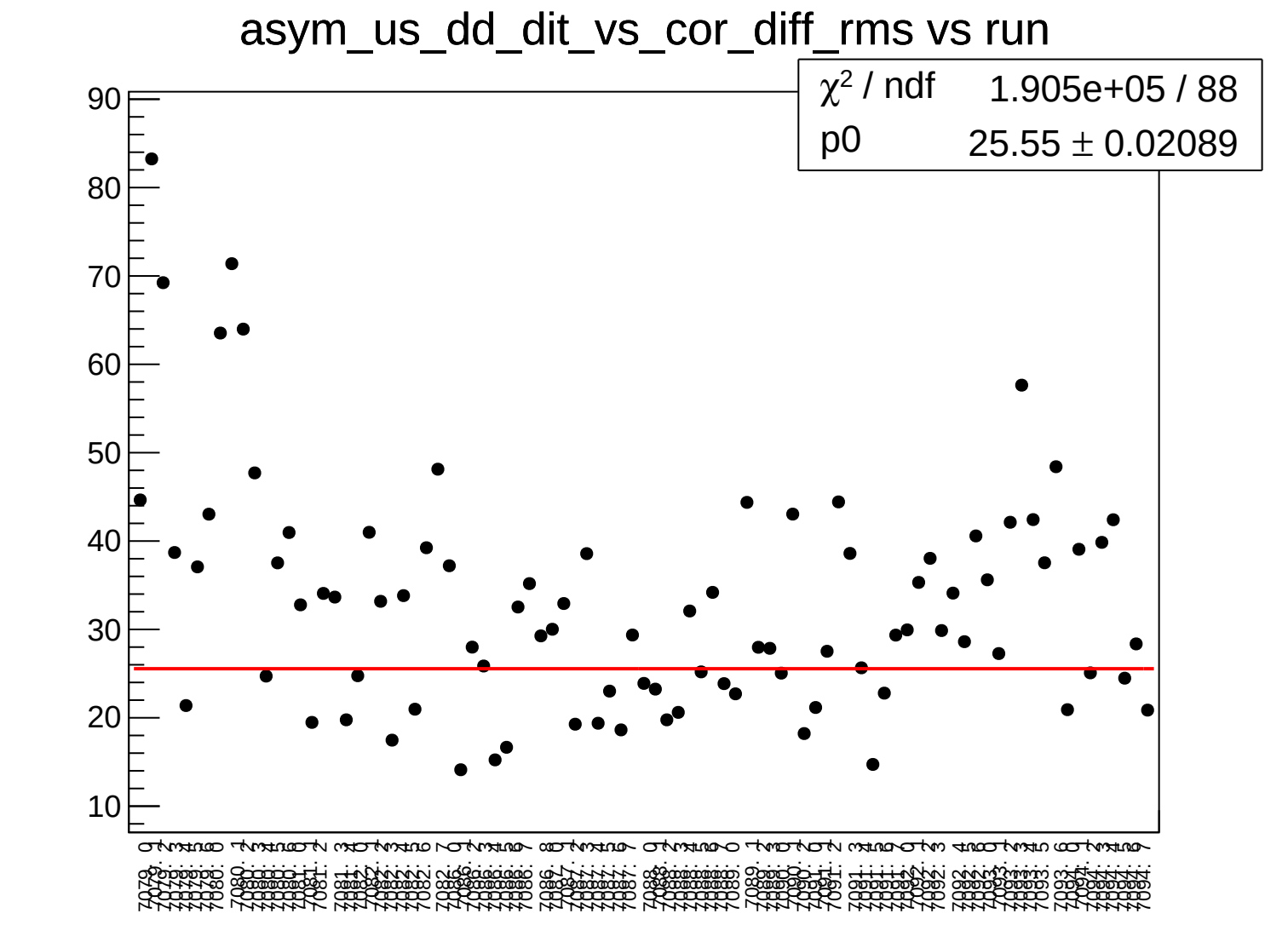

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.41 / 88
p0 −2.021e−15 ± 8.666e−15
1.5
1
0.5
0
−0.5
−1
pull
Entries 89
Mean 82.2
Std Dev 0
3
2
1
0
−1
−2

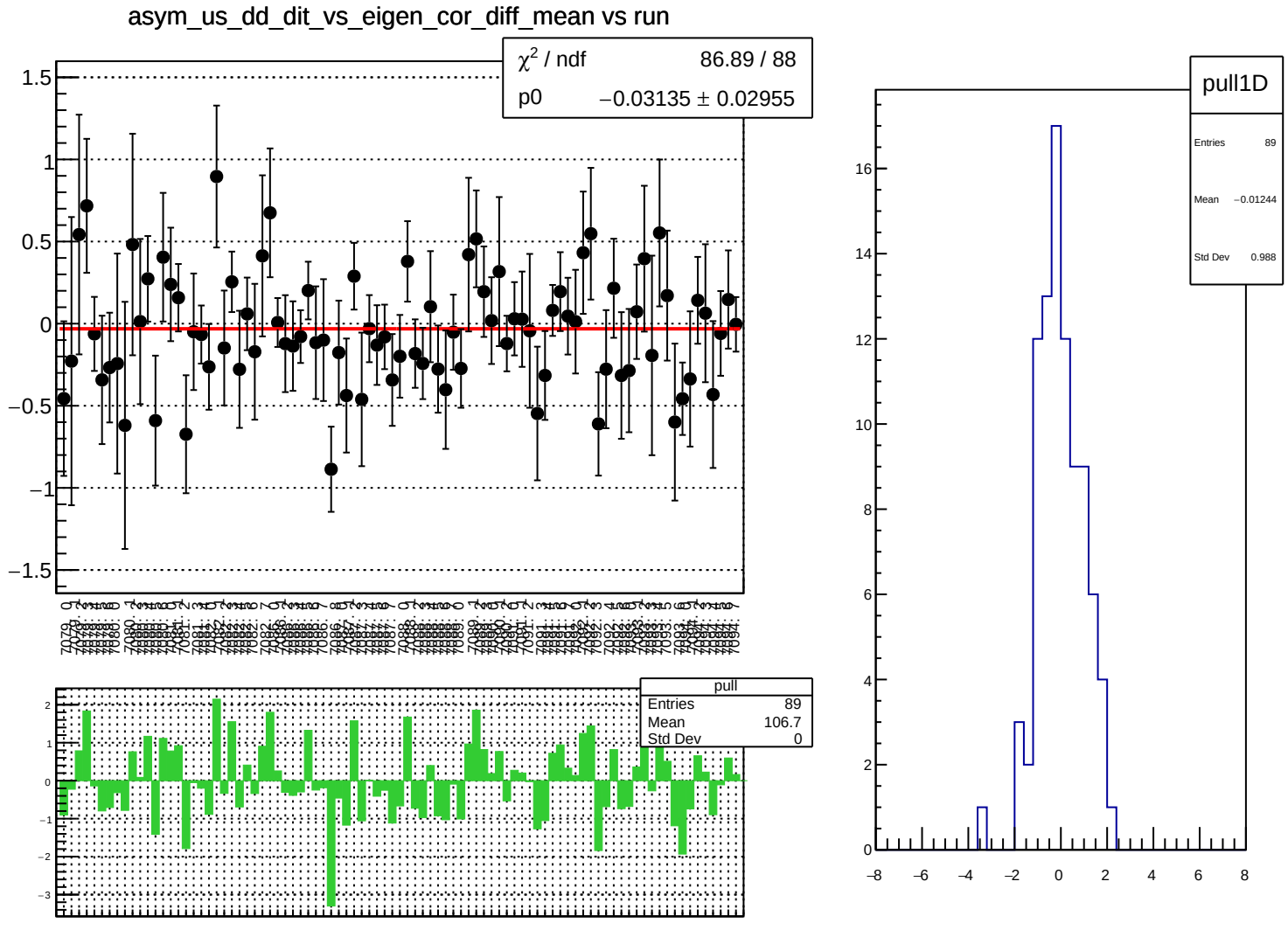

pull1D
Entries 89
Mean 0.1202
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

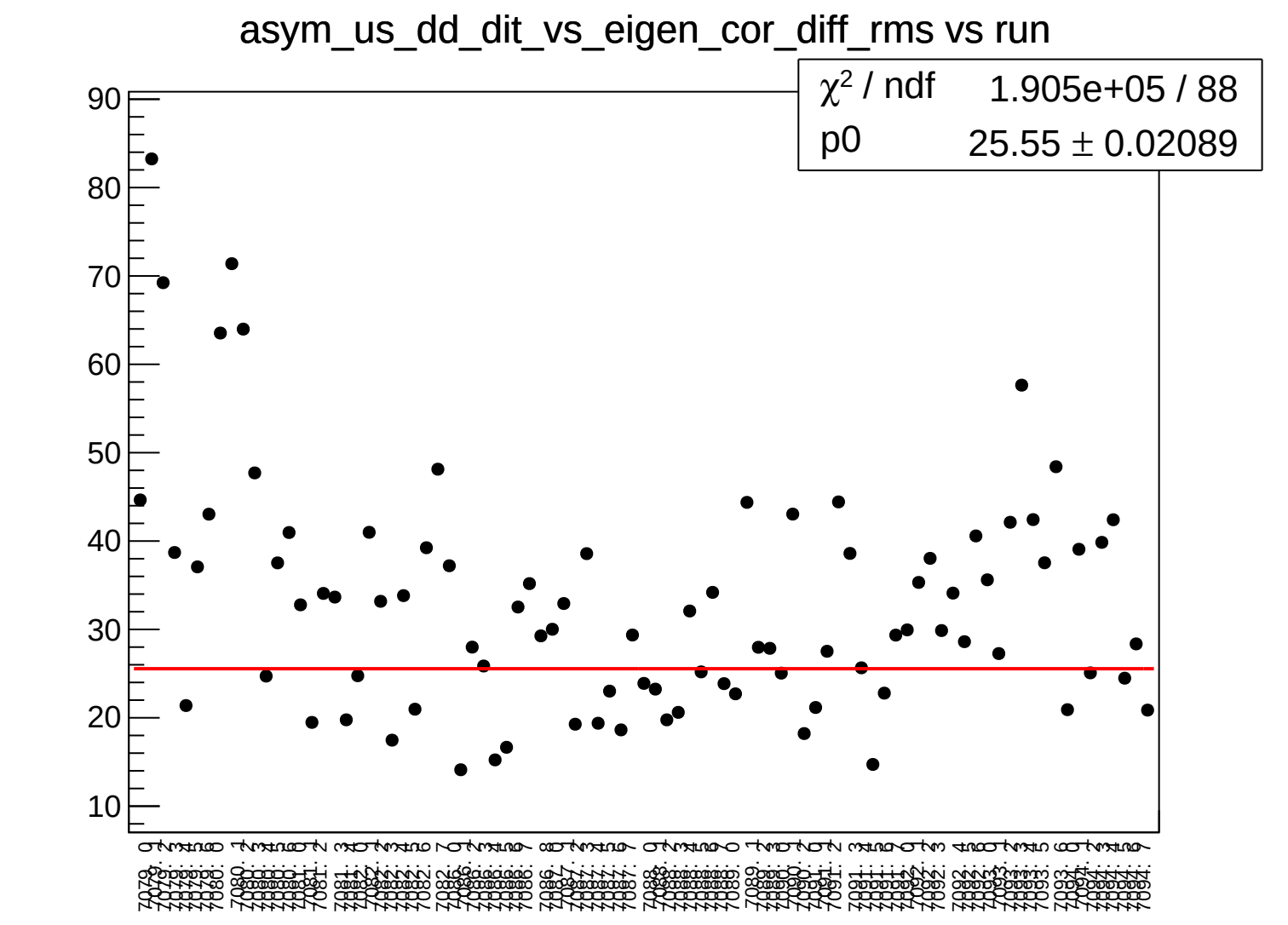

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.167e+06 / 88
p0 4.417e−12 ± 6.128e−15
80
70
60
50
40
30
20
10

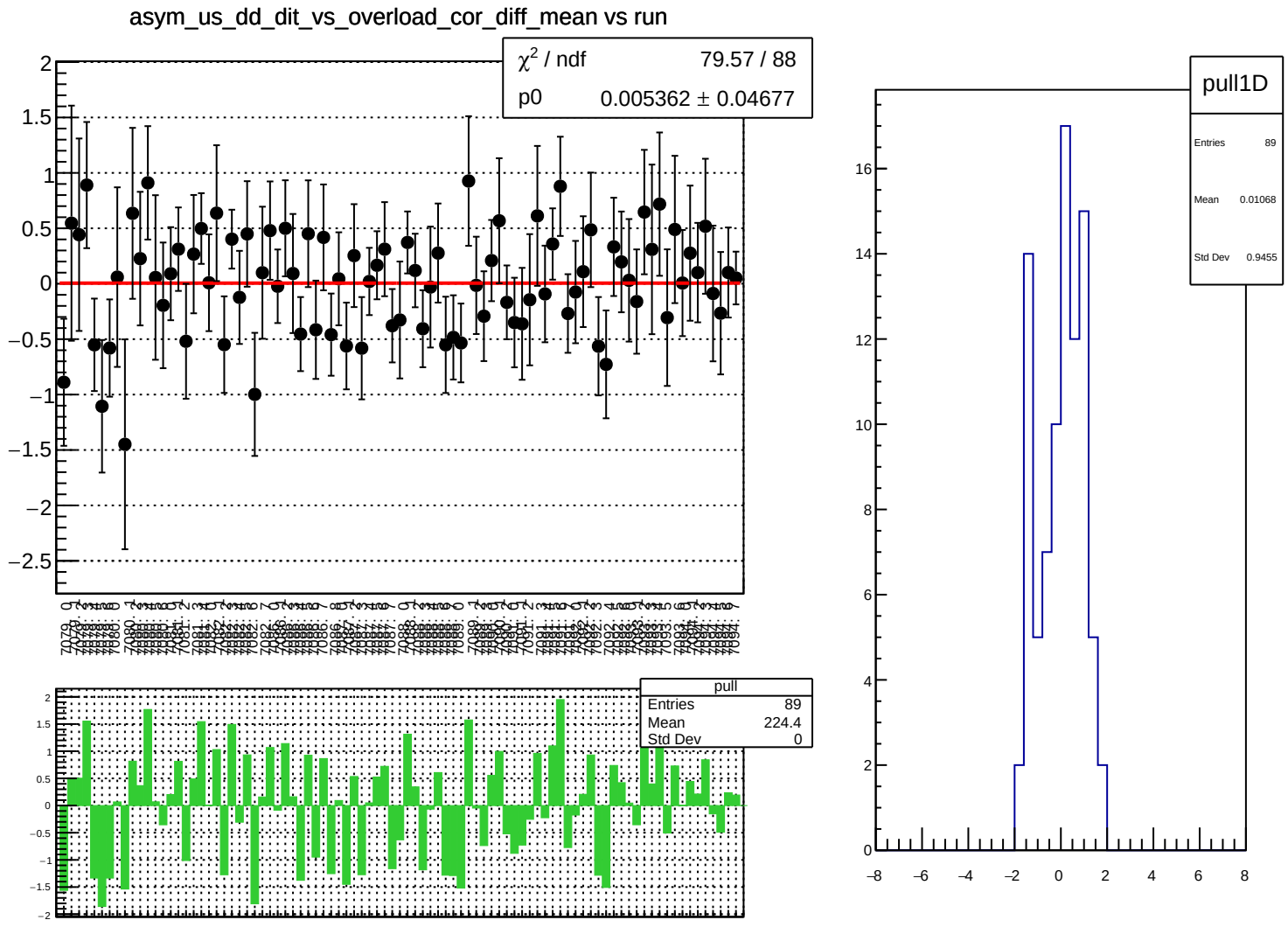

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 −0.03135 ± 0.02955
pull
Entries 89
Mean 106.7
Std Dev 0

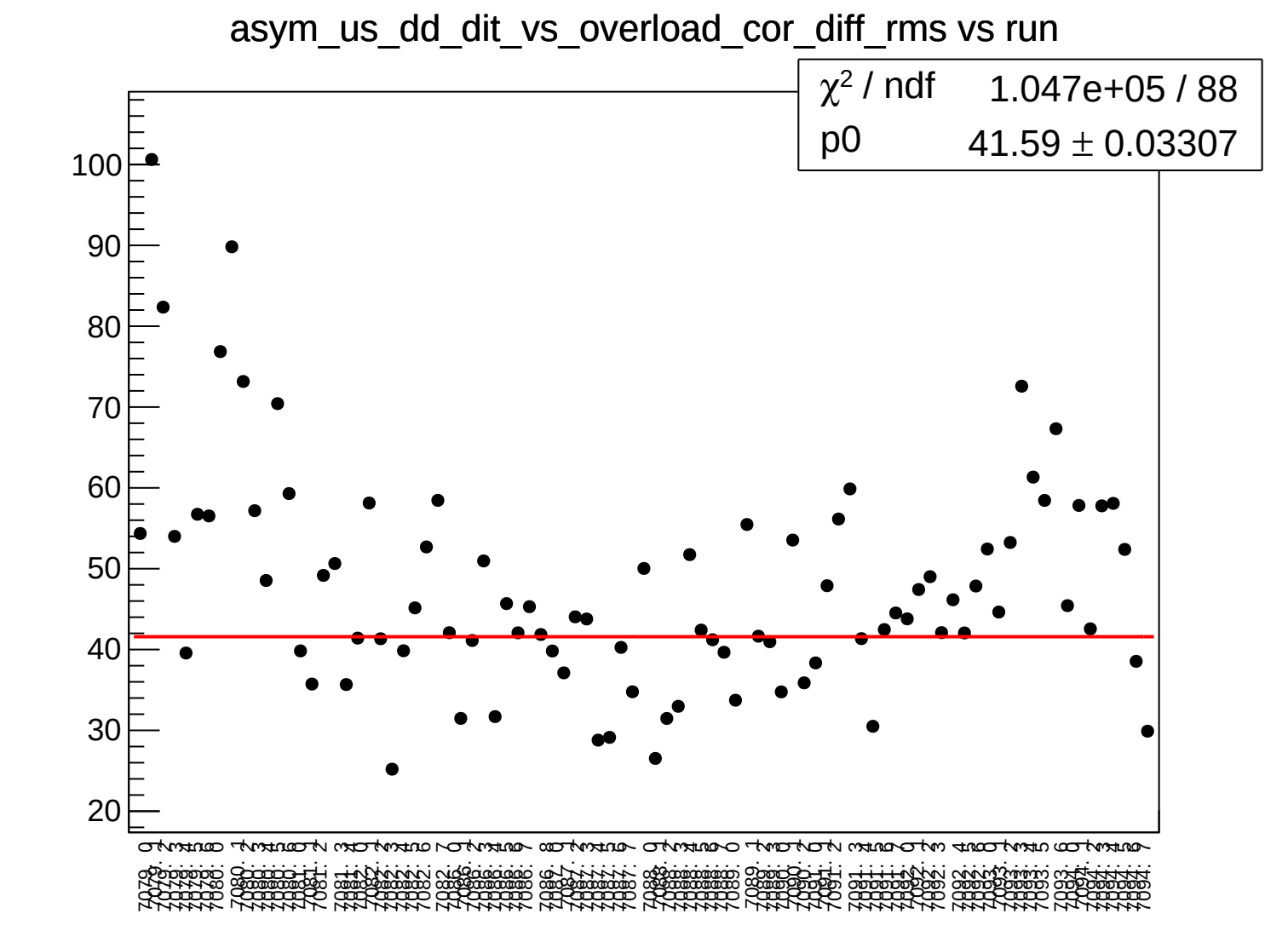

pull1D
Entries 89
Mean −0.01244
Std Dev 0.988

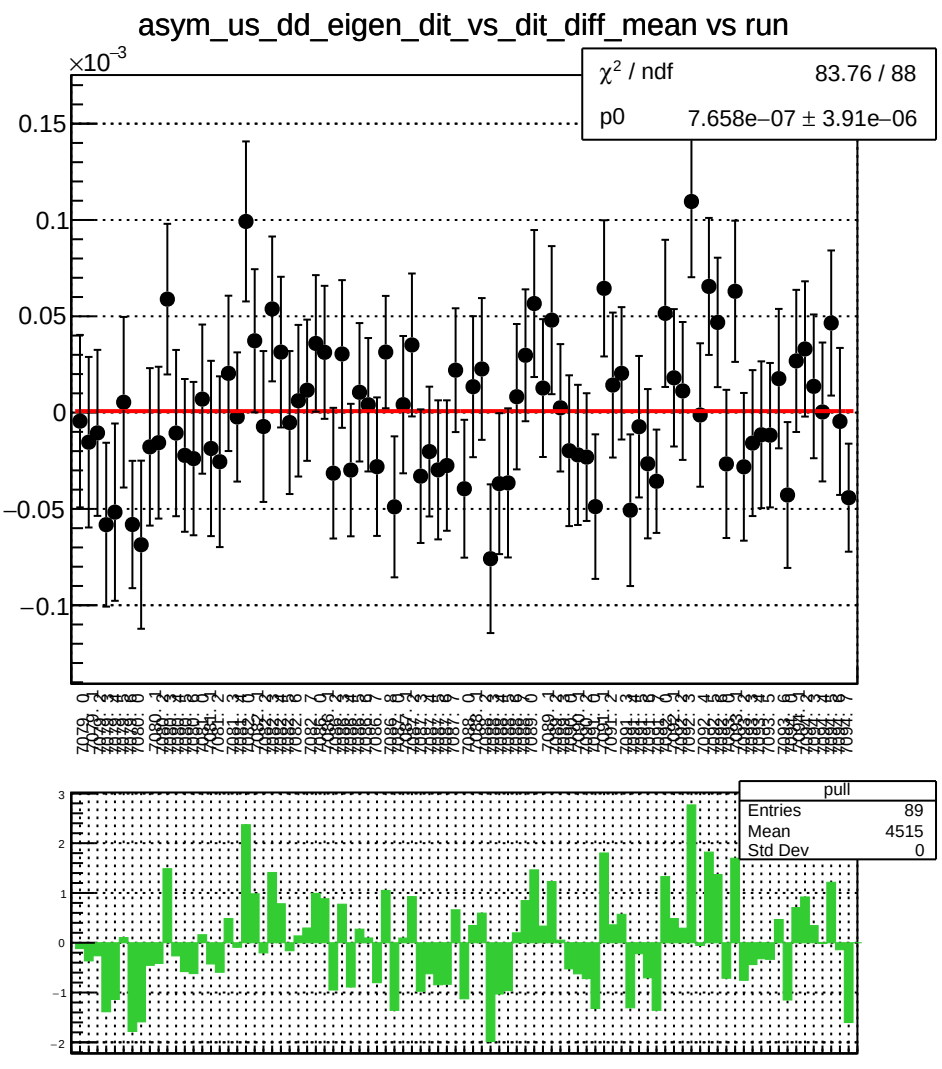

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.905e+05 / 88
p0 25.55 ± 0.02089
90
80
70
60
50
40
30
20
10

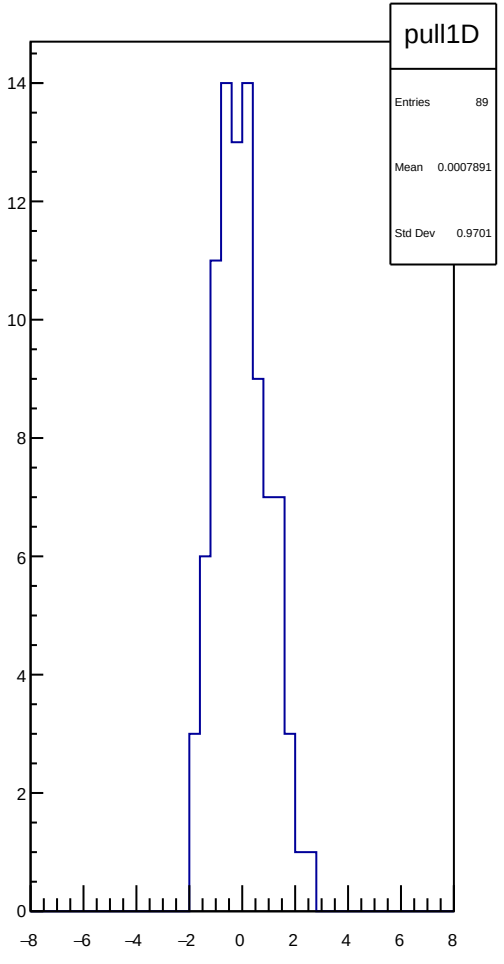

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 −0.03135 ± 0.02955
pull
Entries 89
Mean 106.7
Std Dev 0
pull1D
Entries 89
Mean −0.01244
Std Dev 0.988

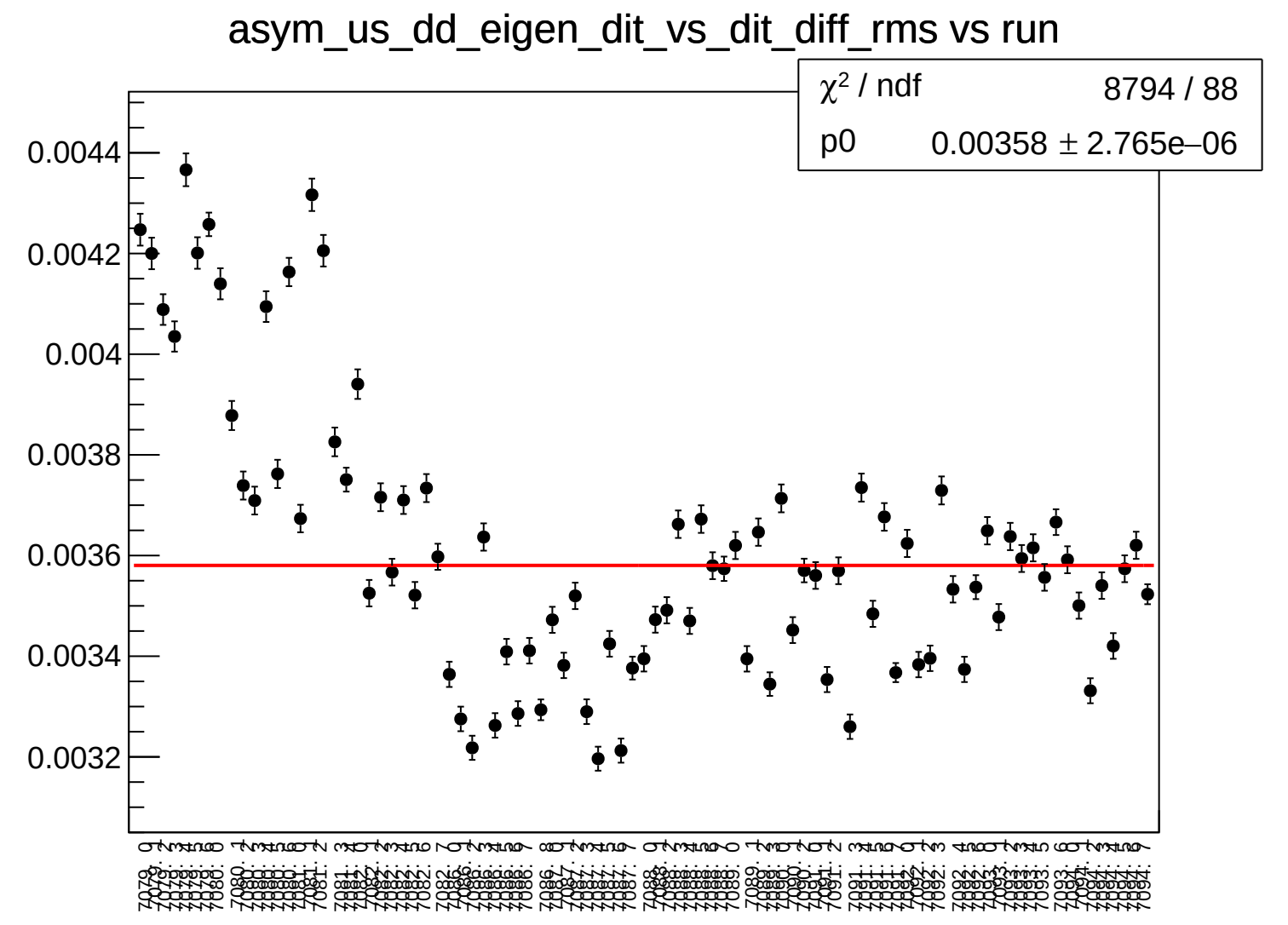

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.905e+05 / 88
p0 25.55 ± 0.02089
90
80
70
60
50
40
30
20
10

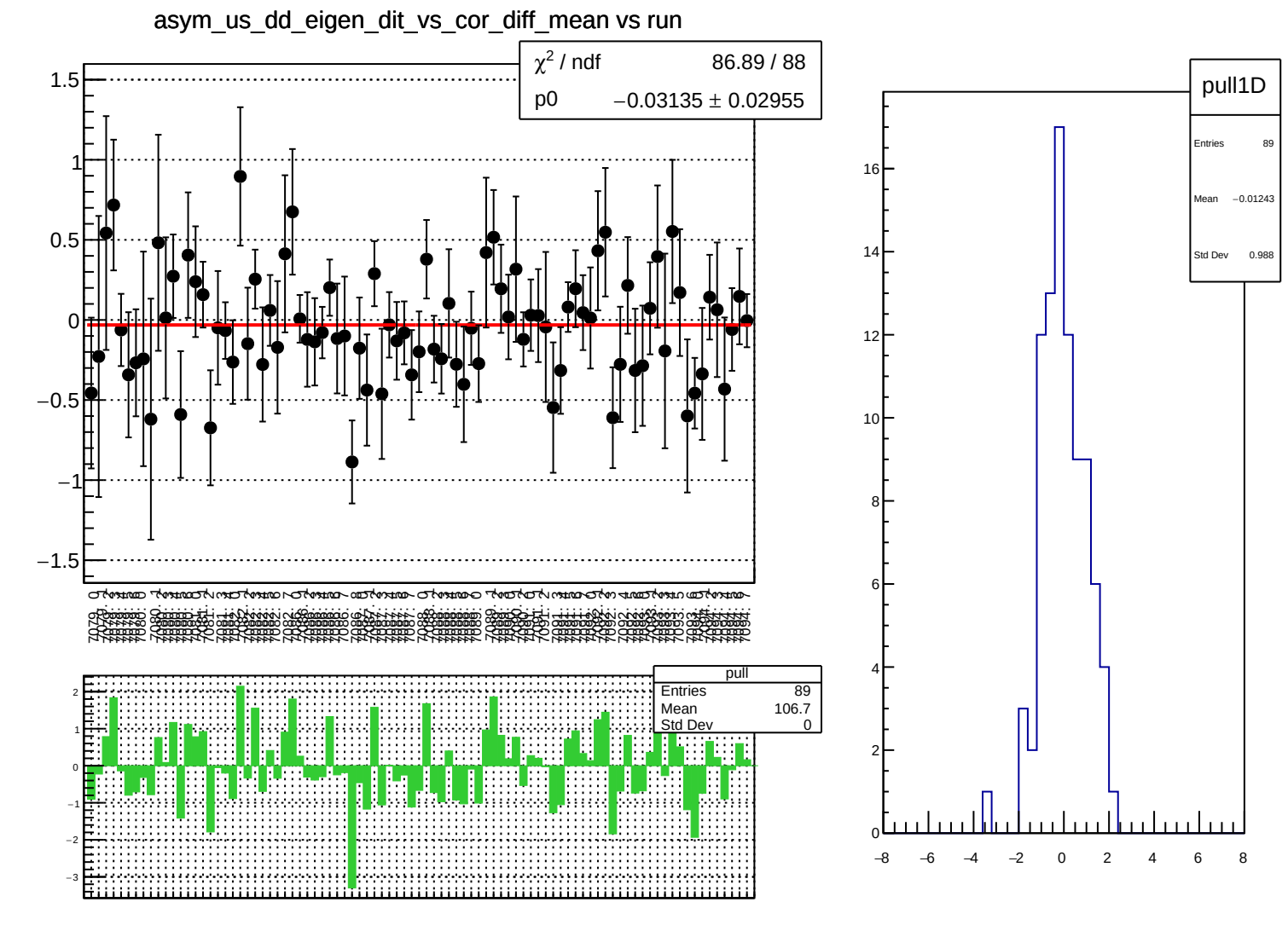

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 79.57 / 88
p0 0.005362 ± 0.04677
pull
Entries 89
Mean 224.4
Std Dev 0
pull1D
Entries 89
Mean 0.01068
Std Dev 0.9455

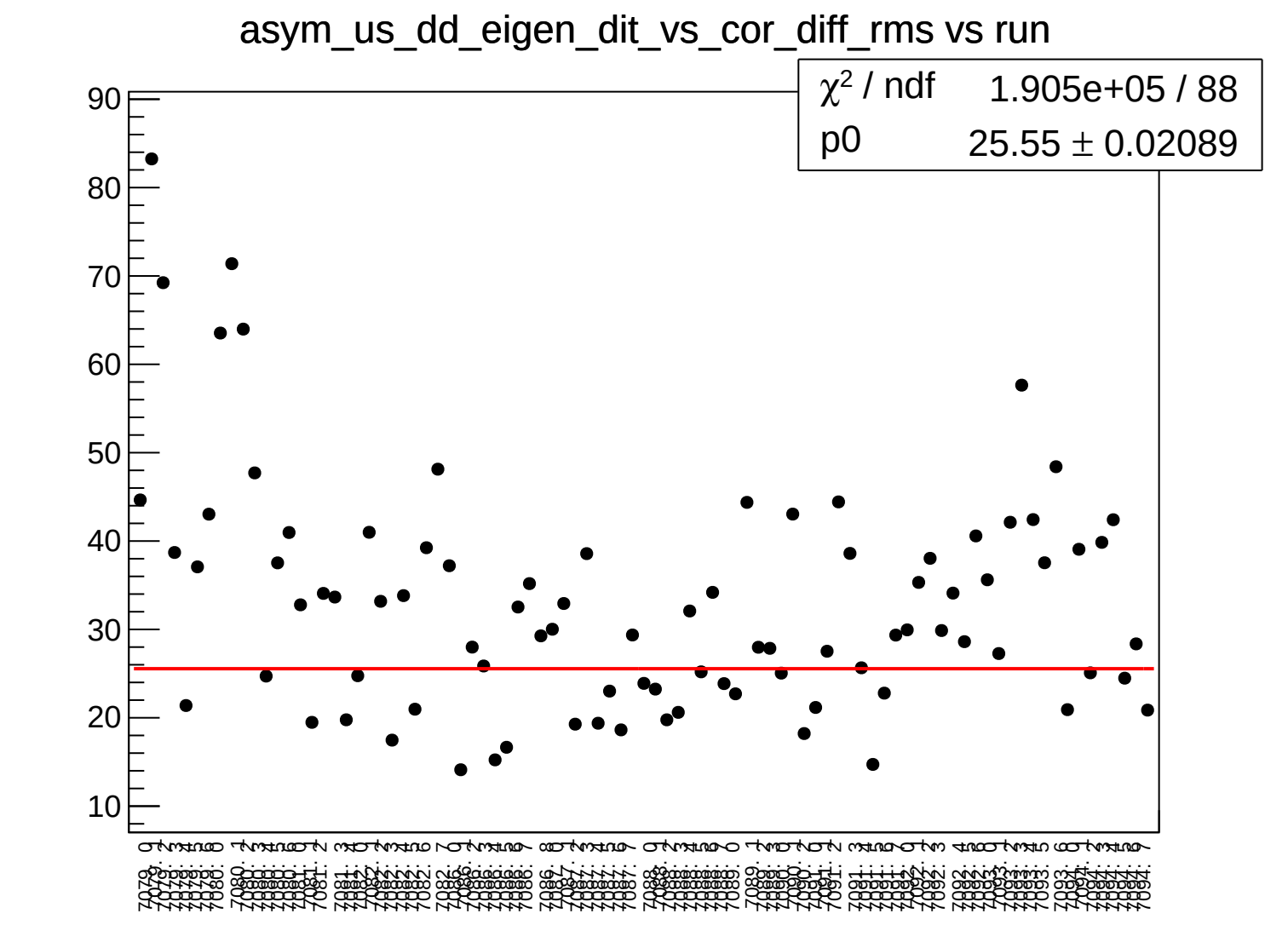

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.047e+05 / 88
p0 41.59 ± 0.03307
100
90
80
70
60
50
40
30
20

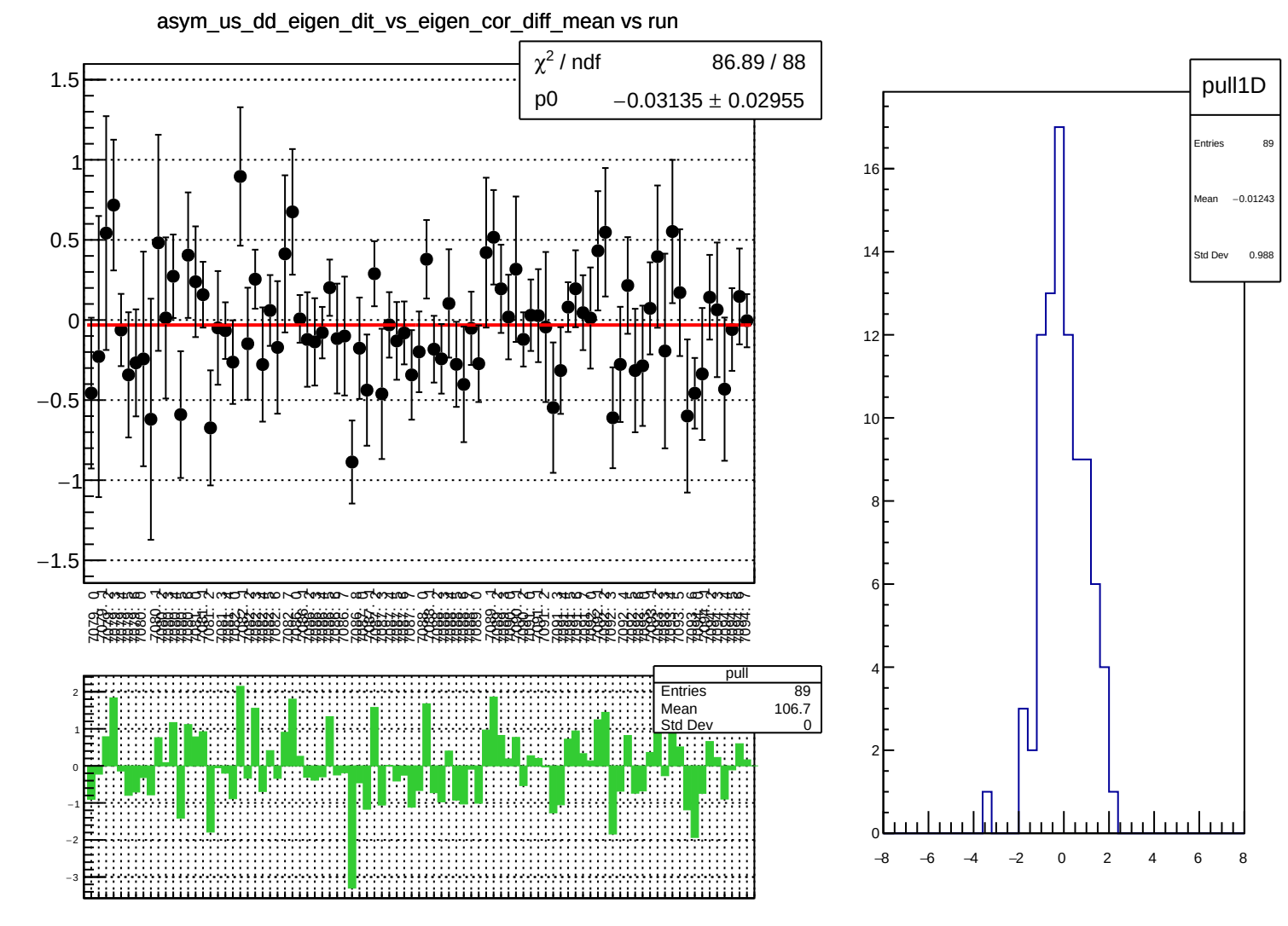

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 83.76 / 88
p0 7.658e−07 ± 3.91e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 4515
Std Dev 0
3
2
1
0
−1
−2

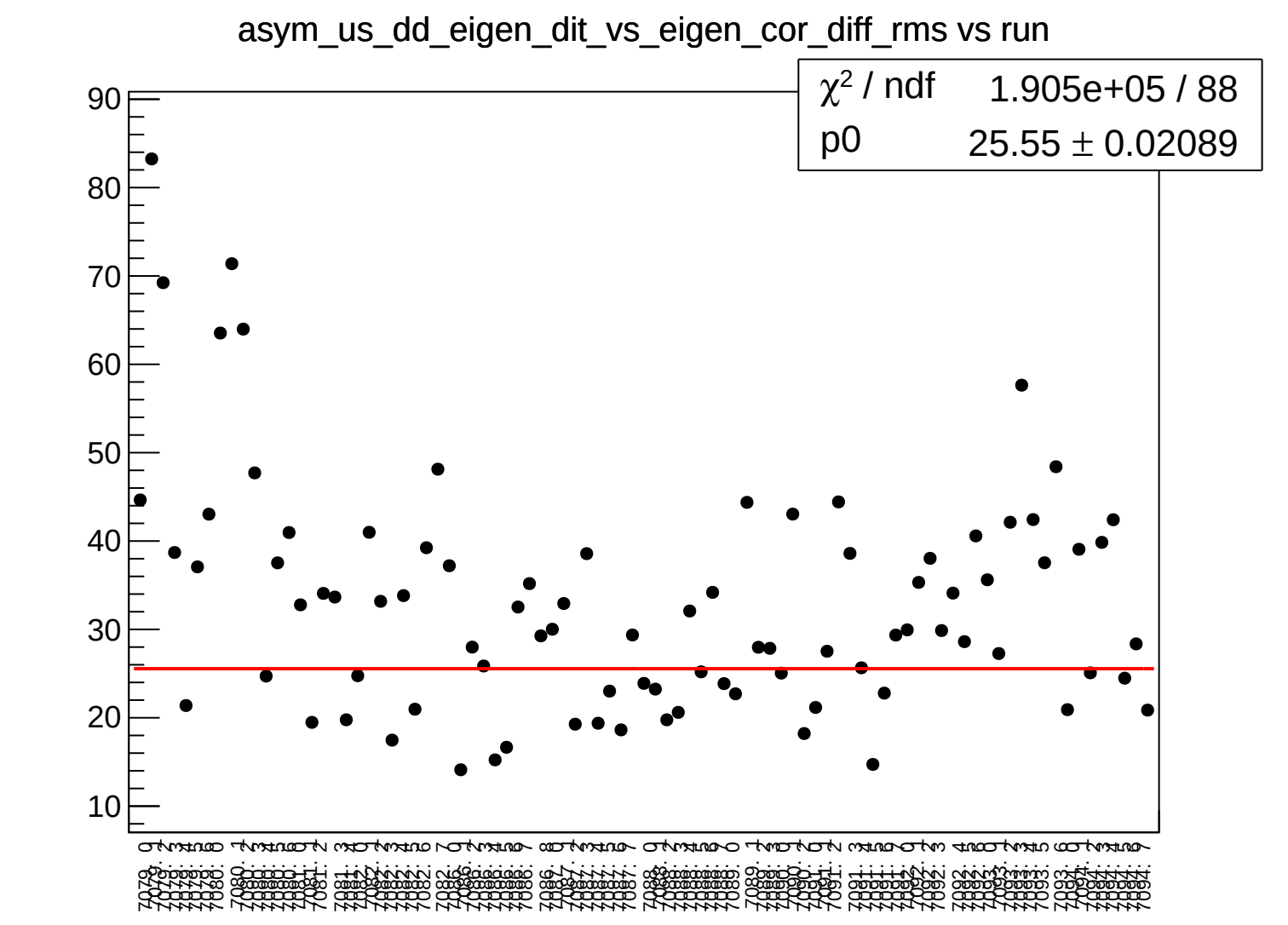

pull1D
Entries 89
Mean 0.0007891
Std Dev 0.9701
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

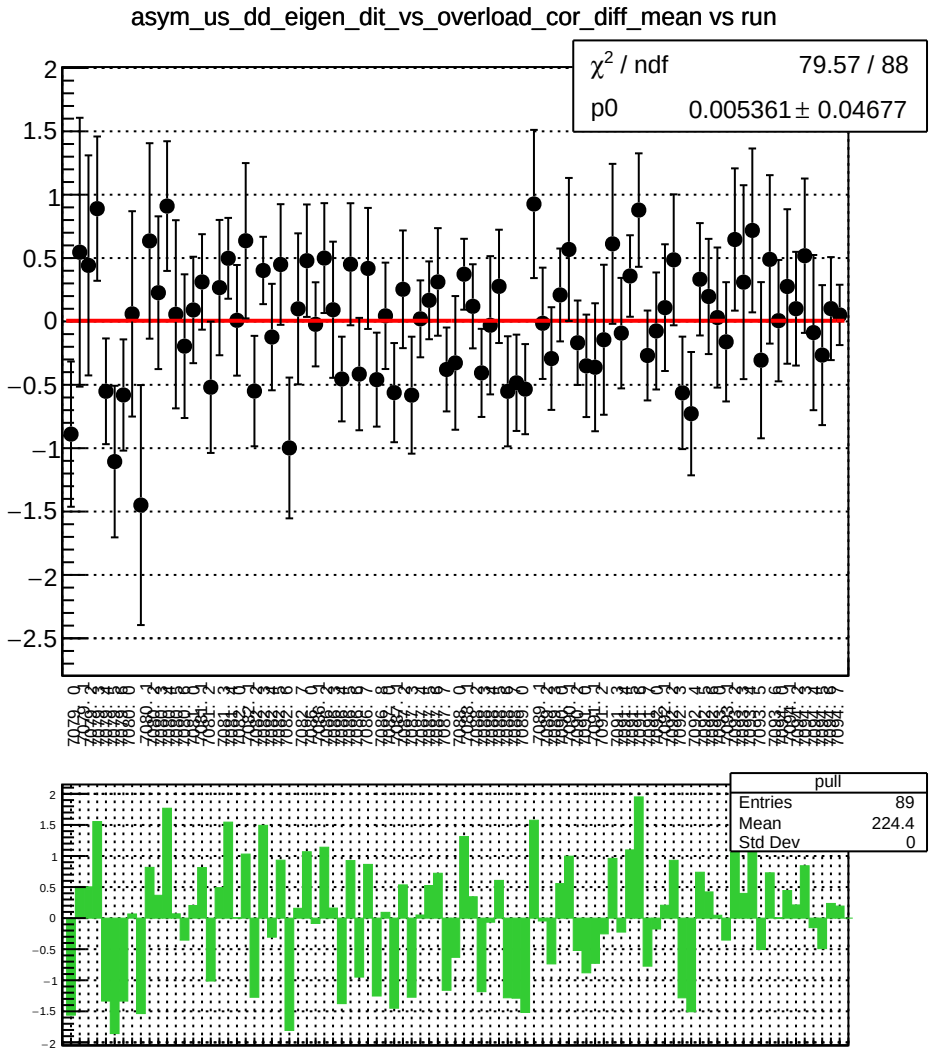

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8794 / 88
p0 0.00358 ± 2.765e–06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

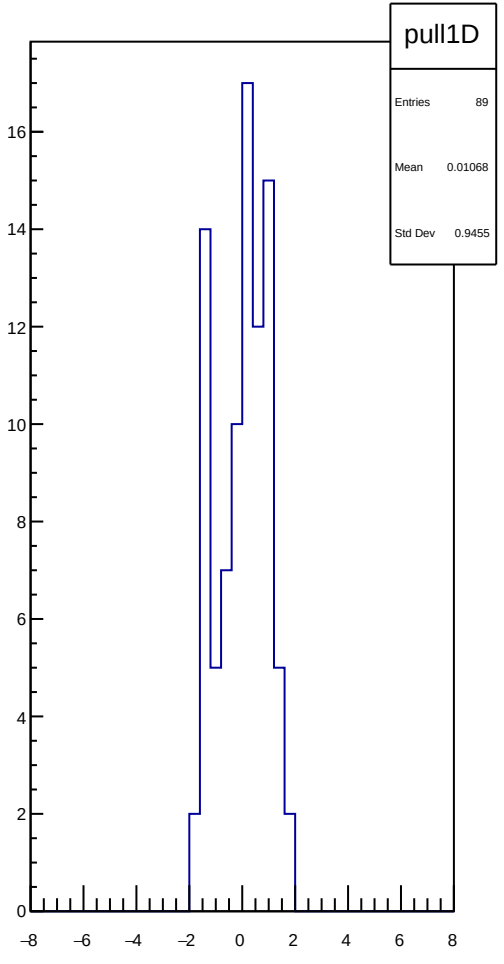

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 −0.03135 ± 0.02955
pull
Entries 89
Mean 106.7
Std Dev 0
pull1D
Entries 89
Mean −0.01243
Std Dev 0.988

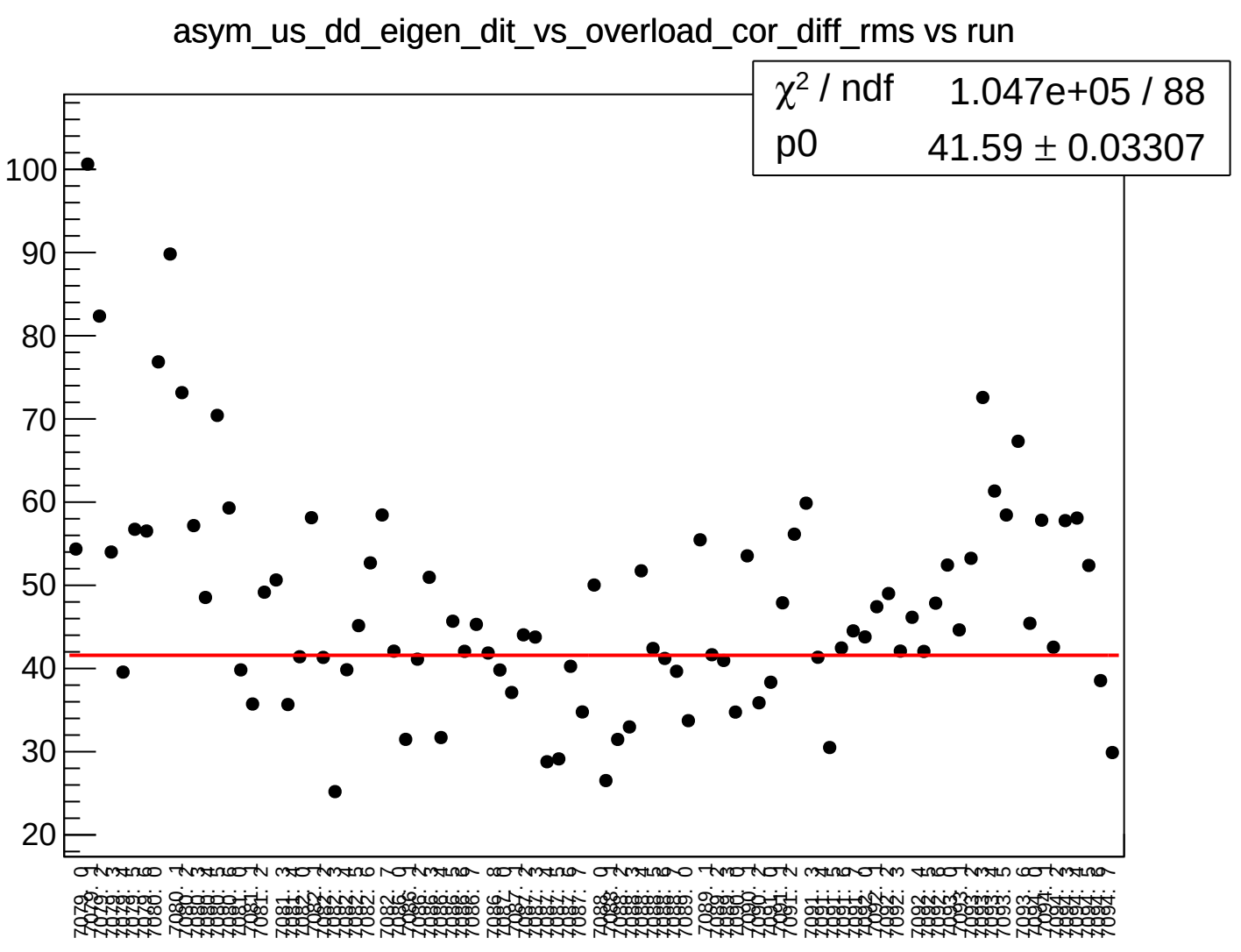

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.905e+05 / 88
p0 25.55 ± 0.02089
90
80
70
60
50
40
30
20
10

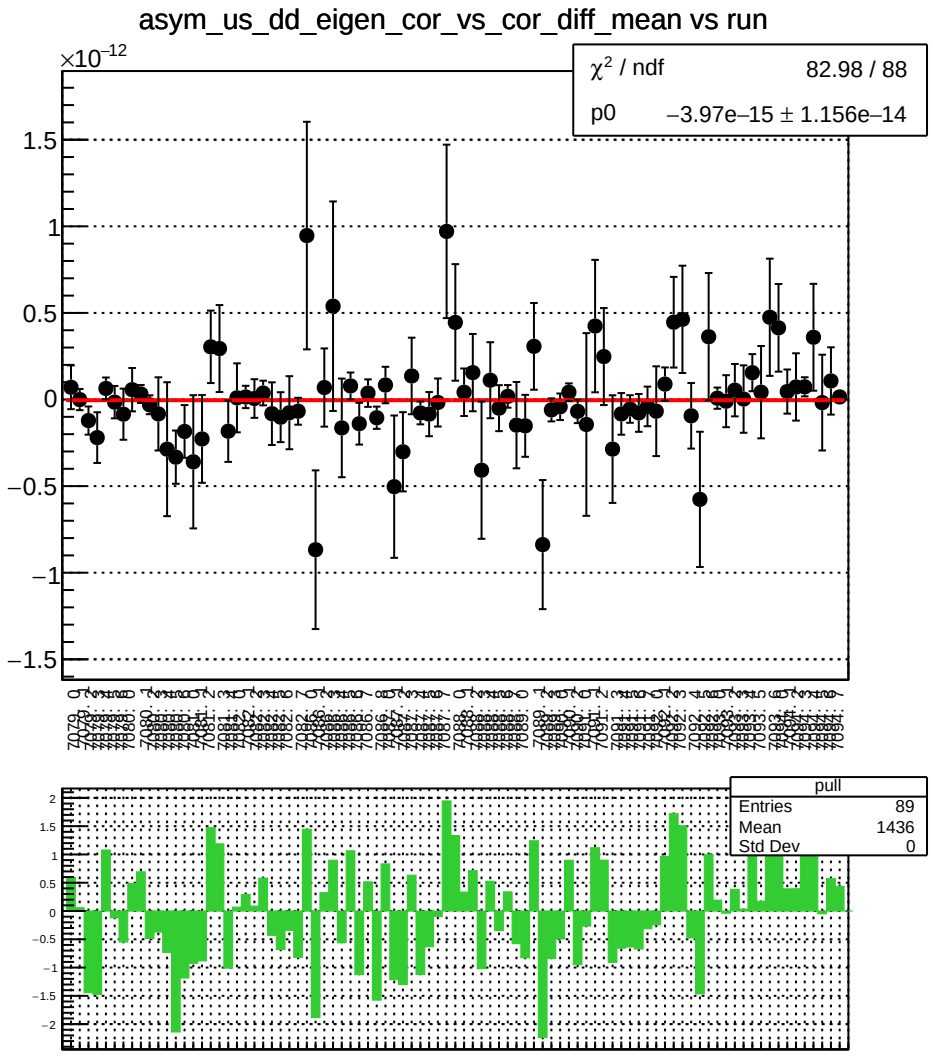

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 −0.03135 ± 0.02955
pull
Entries 89
Mean 106.7
Std Dev 0
pull1D
Entries 89
Mean −0.01243
Std Dev 0.988

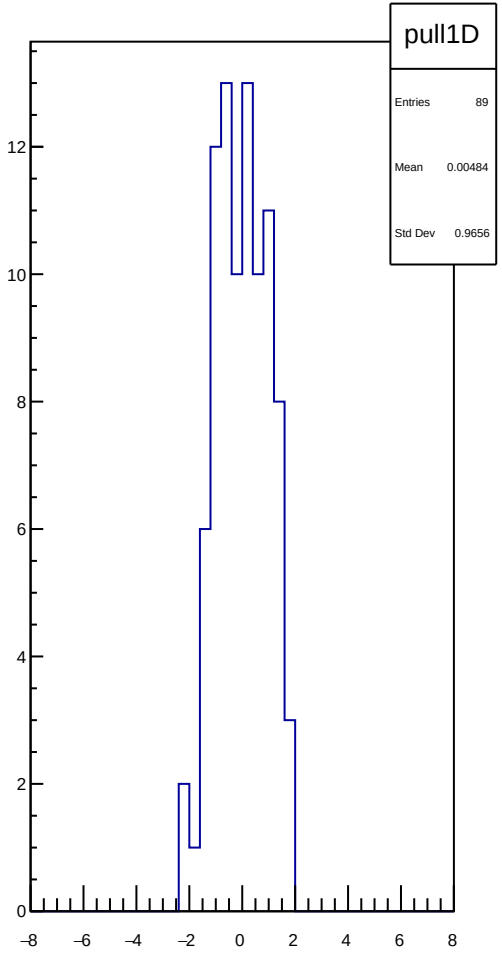

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.905e+05 / 88
p0 25.55 ± 0.02089
90
80
70
60
50
40
30
20
10

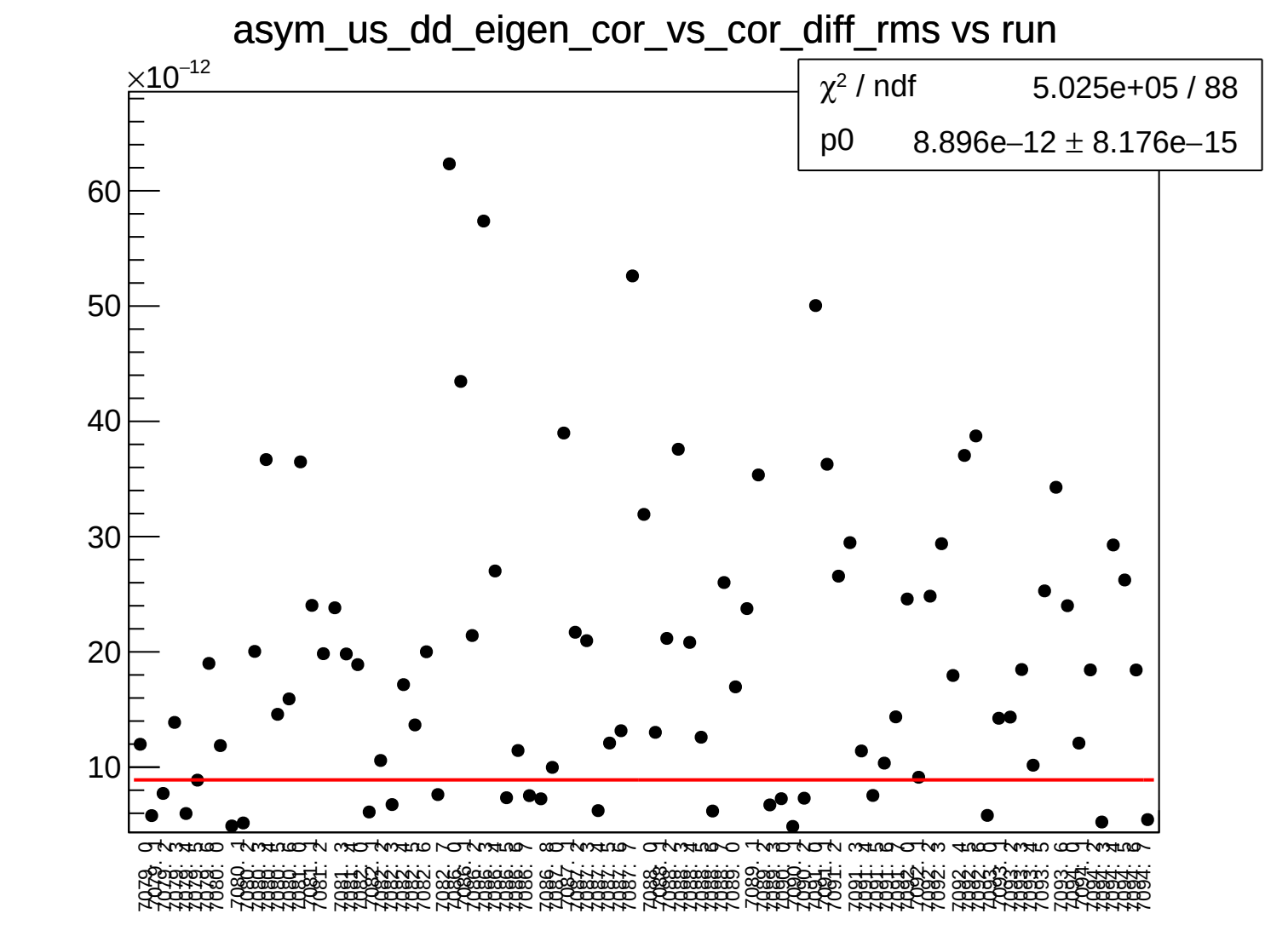

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 79.57 / 88
p0 0.005361 ± 0.04677
pull
Entries 89
Mean 224.4
Std Dev 0

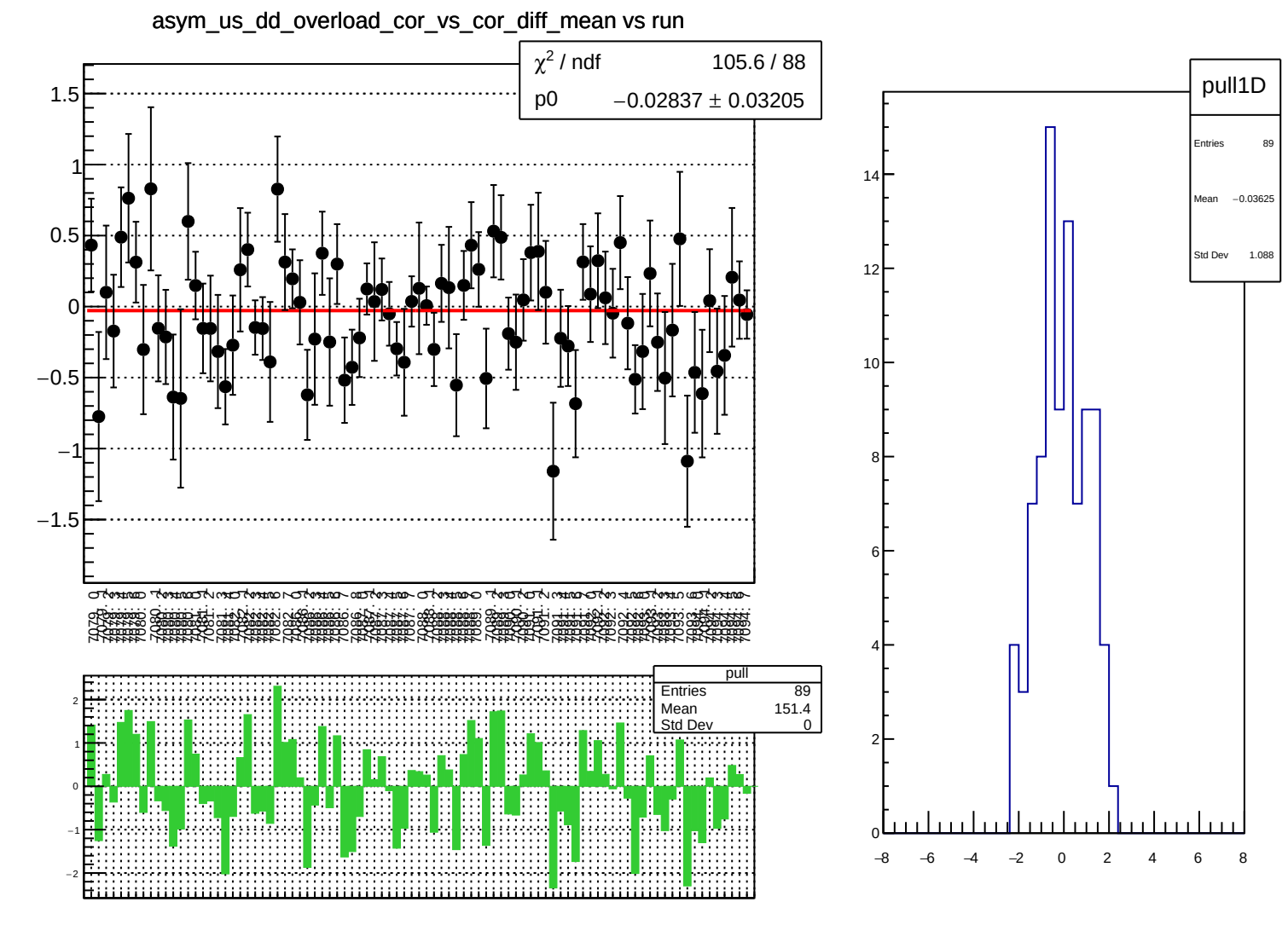

pull1D
Entries 89
Mean 0.01068
Std Dev 0.9455

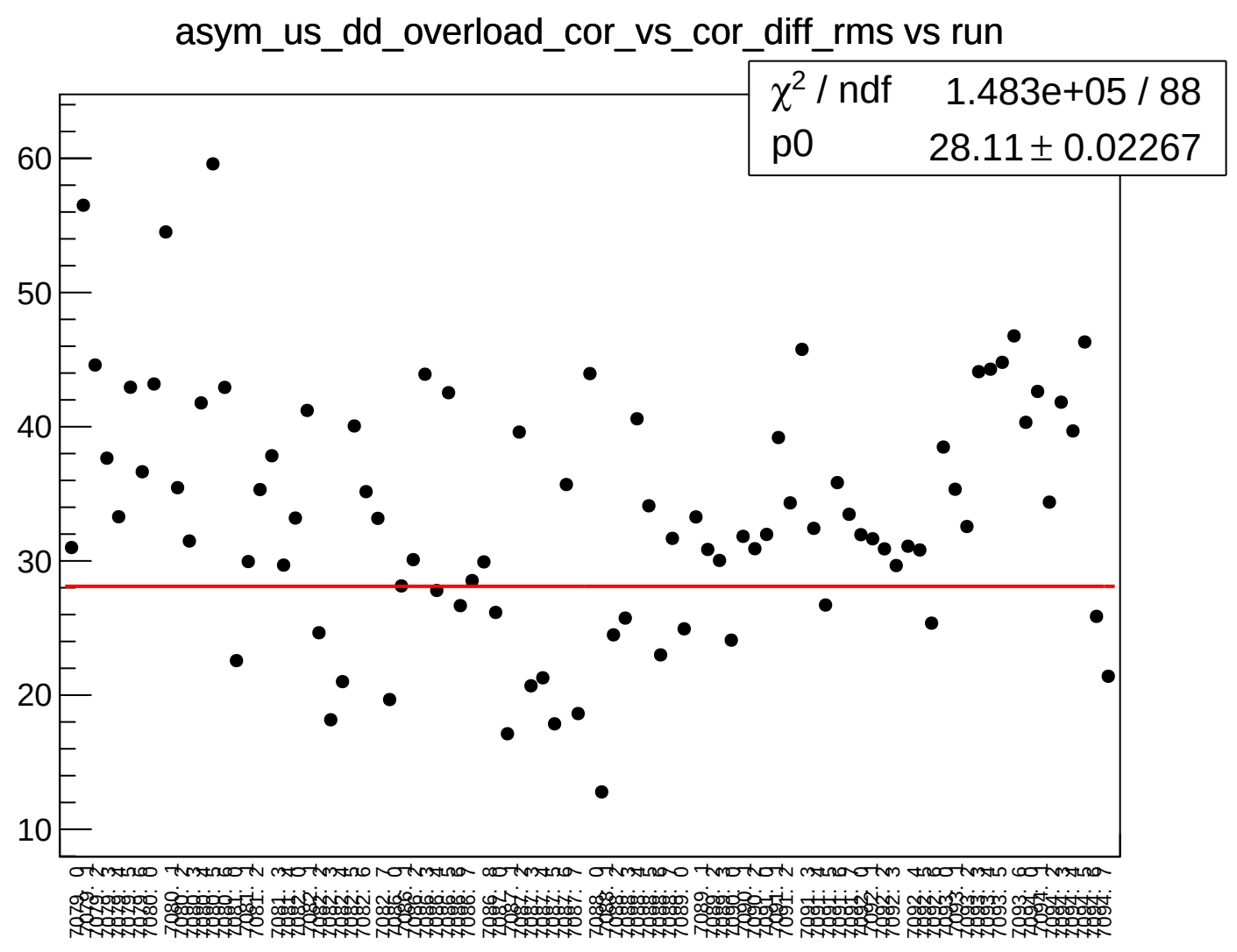

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.047e+05 / 88
p0 41.59 ± 0.03307
100
90
80
70
60
50
40
30
20

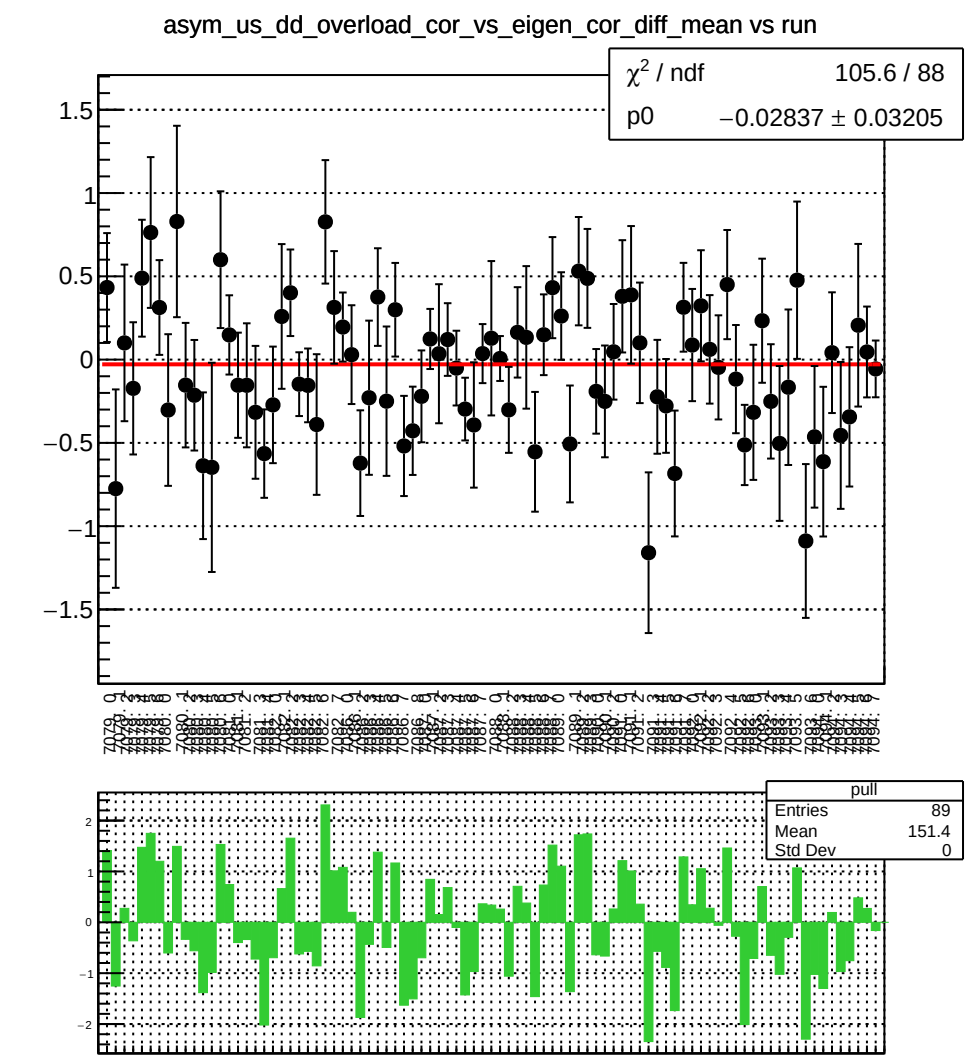

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.98 / 88
p0 −3.97e−15 ± 1.156e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 89
Mean 1436
Std Dev 0

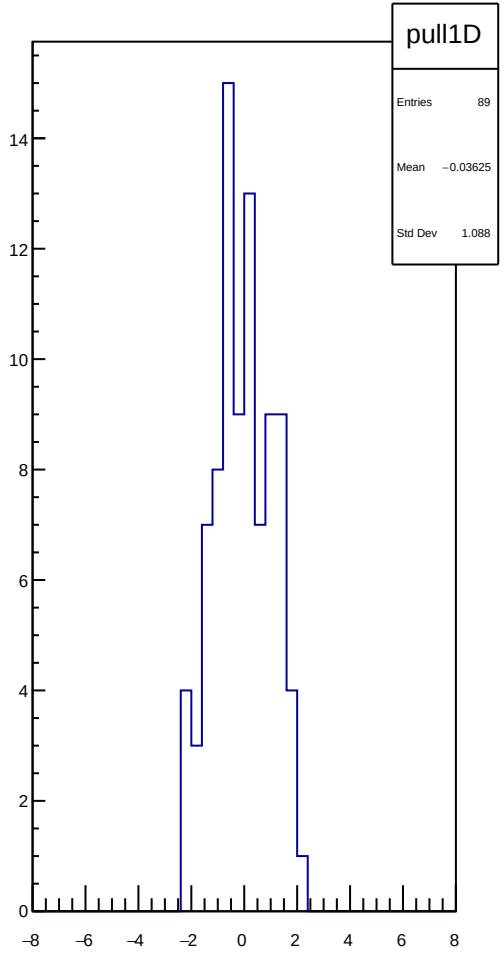

pull1D
Entries 89
Mean 0.00484
Std Dev 0.9656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

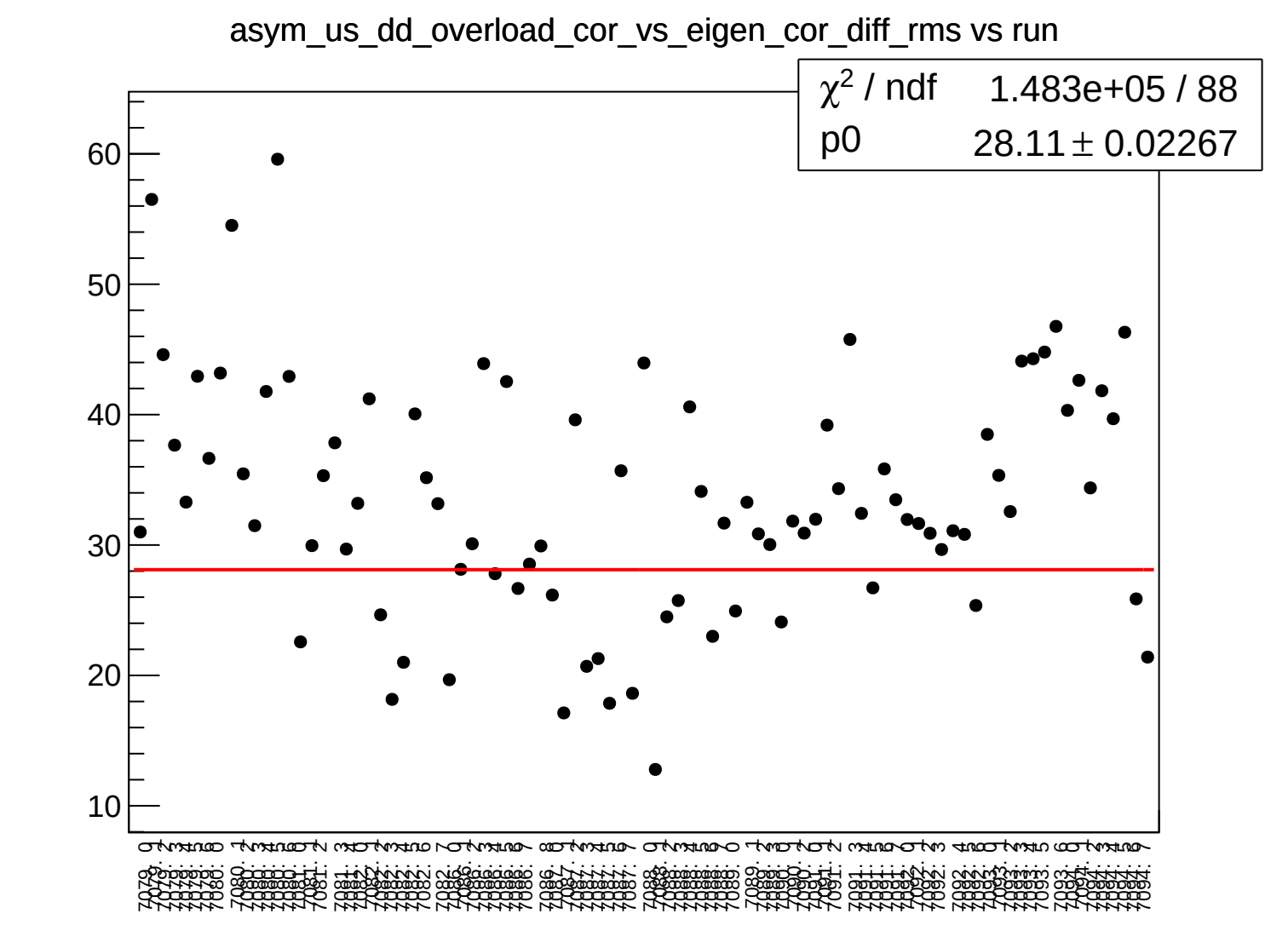

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.025e+05 / 88
p0 8.896e−12 ± 8.176e−15
60
50
40
30
20
10

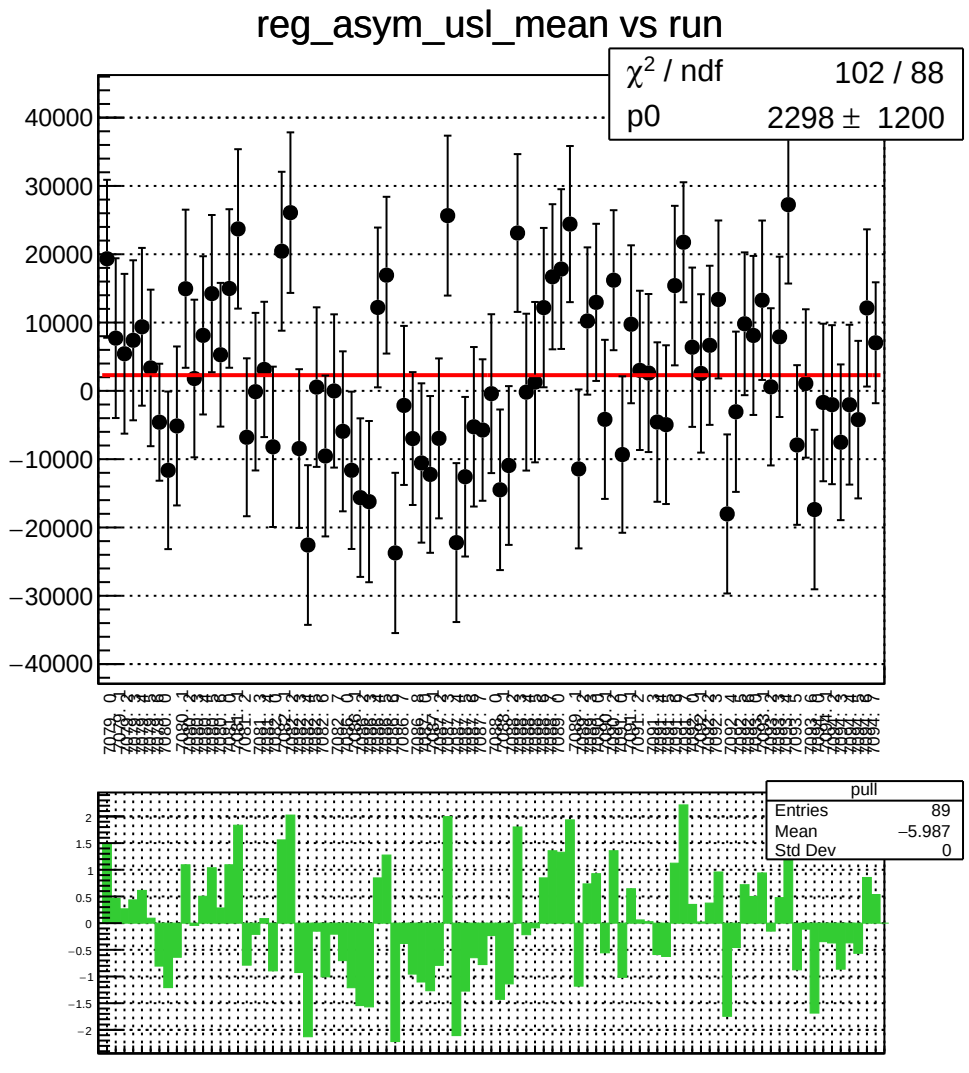

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 88
p0 −0.02837 ± 0.03205
pull
Entries 89
Mean 151.4
Std Dev 0
pull1D
Entries 89
Mean −0.03625
Std Dev 1.088

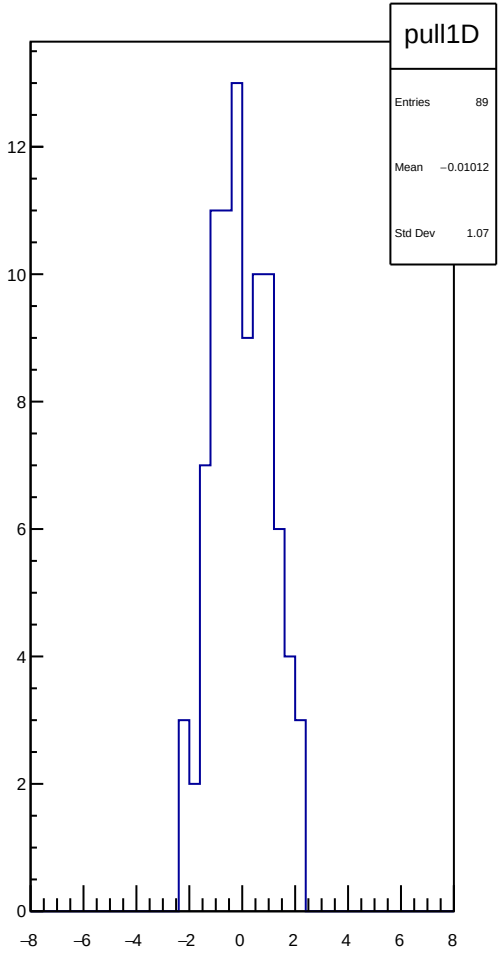

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.483e+05 / 88
p0 28.11 ± 0.02267
60
50
40
30
20
10

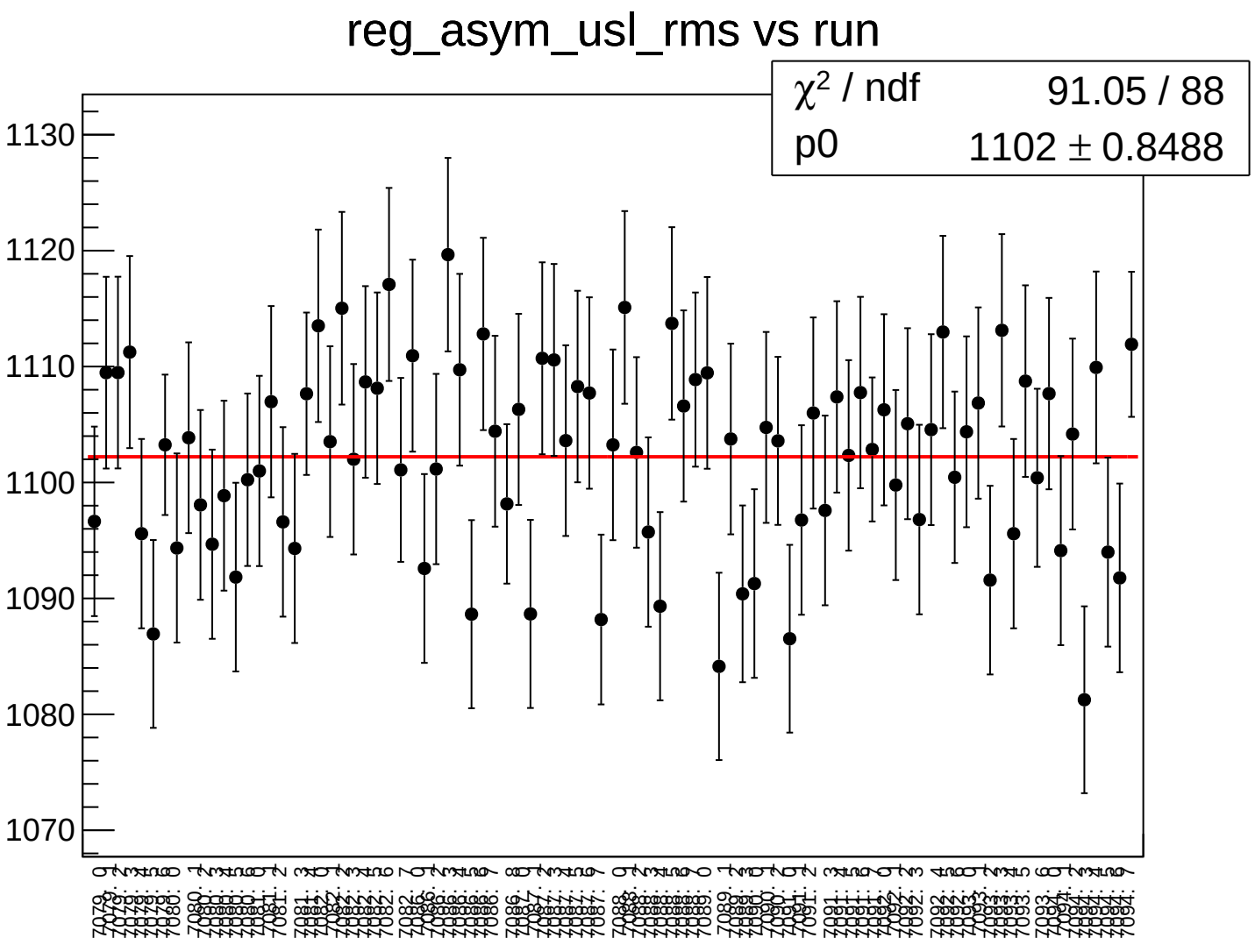

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.6 / 88
p0 −0.02837 ± 0.03205
pull
Entries 89
Mean 151.4
Std Dev 0

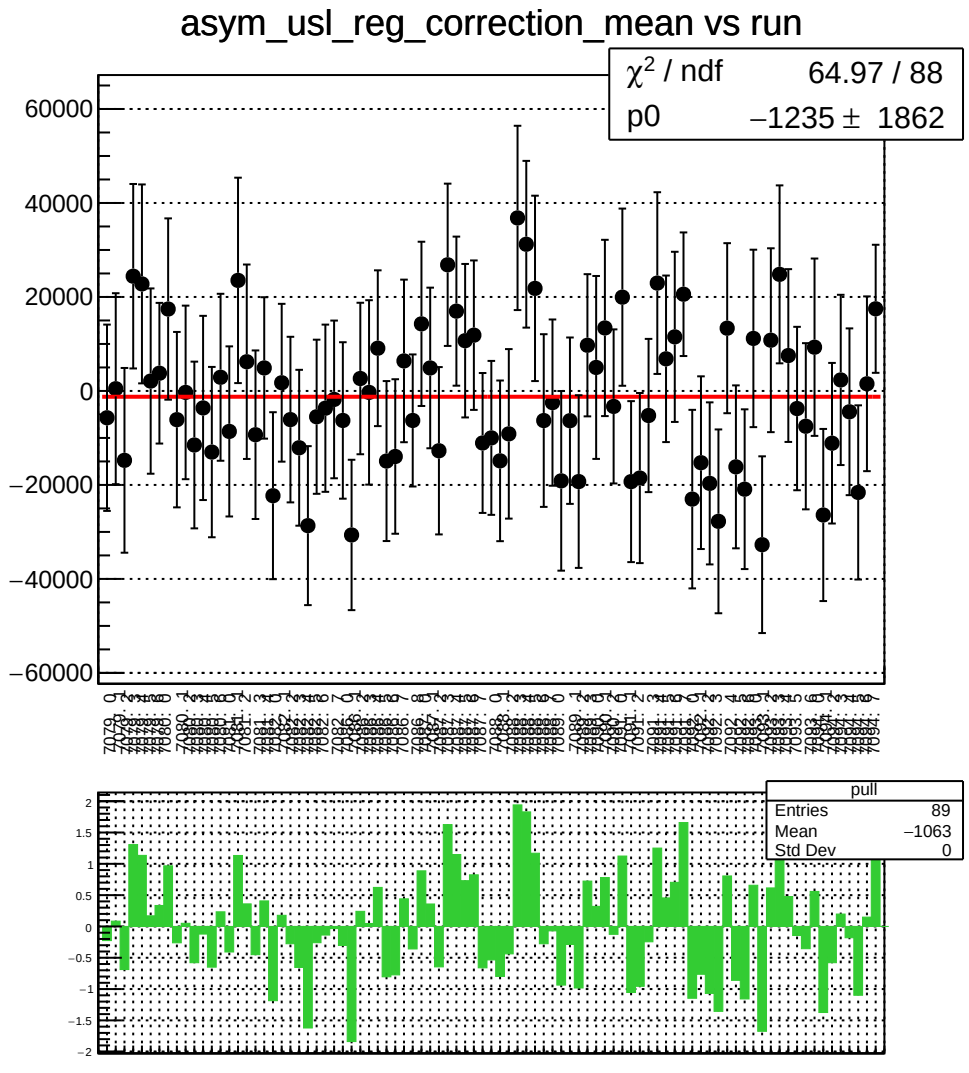

pull1D
Entries 89
Mean −0.03625
Std Dev 1.088

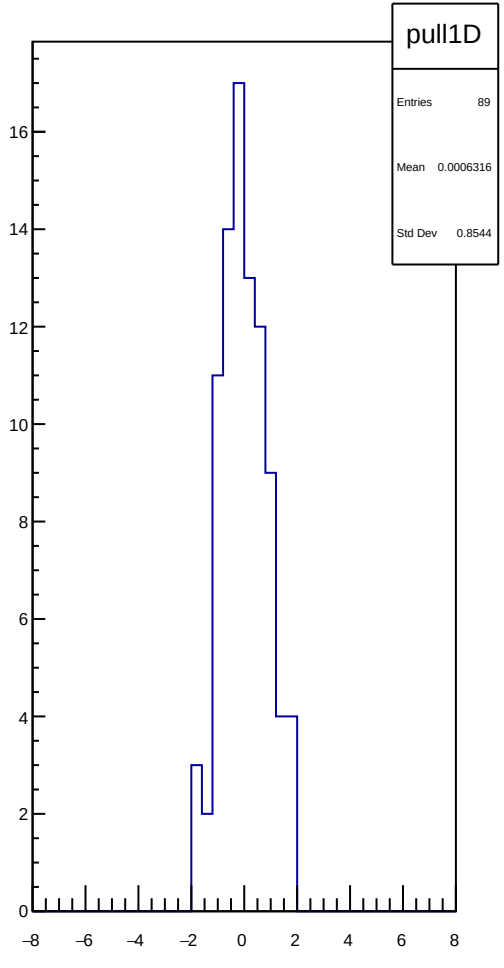

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.483e+05 / 88
p0 28.11 ± 0.02267
60
50
40
30
20
10

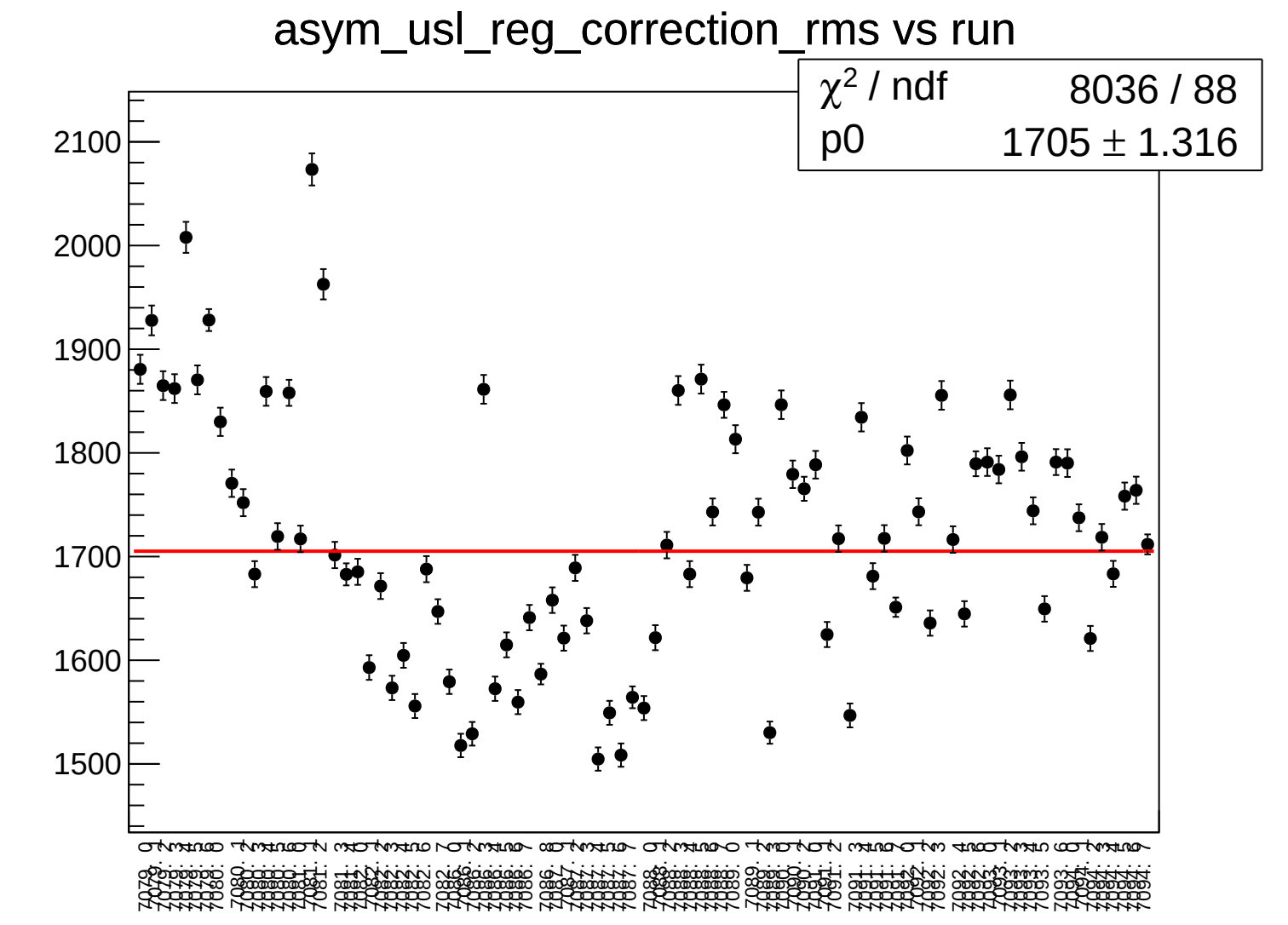

reg_asym_usl_mean vs run
χ² / ndf 102 / 88
p0 2298 ± 1200
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −5.987
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

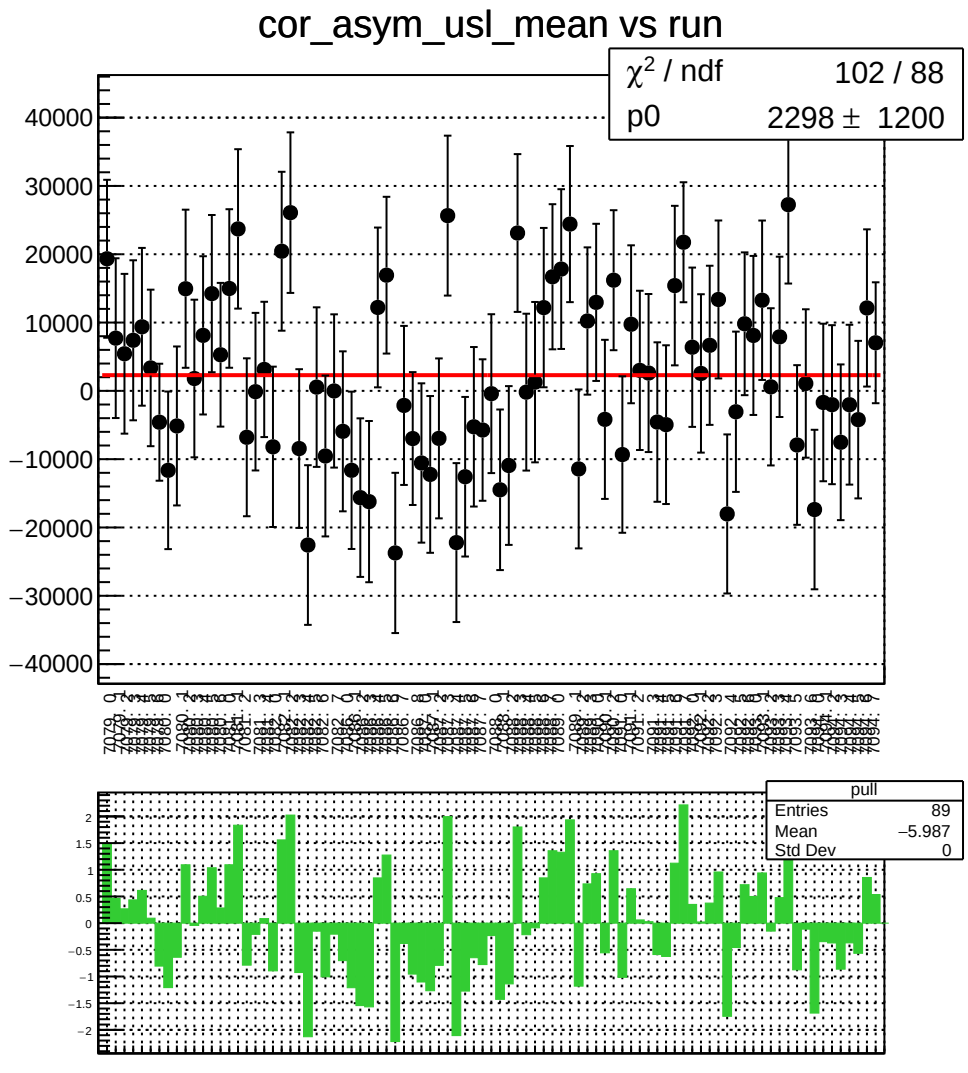

pull1D
Entries 89
Mean −0.01012
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

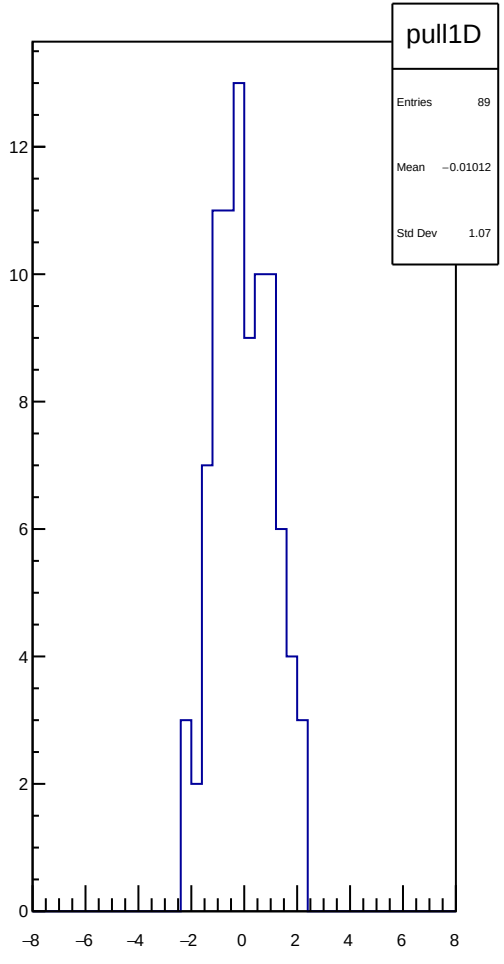

reg_asym_usl_rms vs run
χ² / ndf 91.05 / 88
p0 1102 ± 0.8488
1130
1120
1110
1100
1090
1080
1070

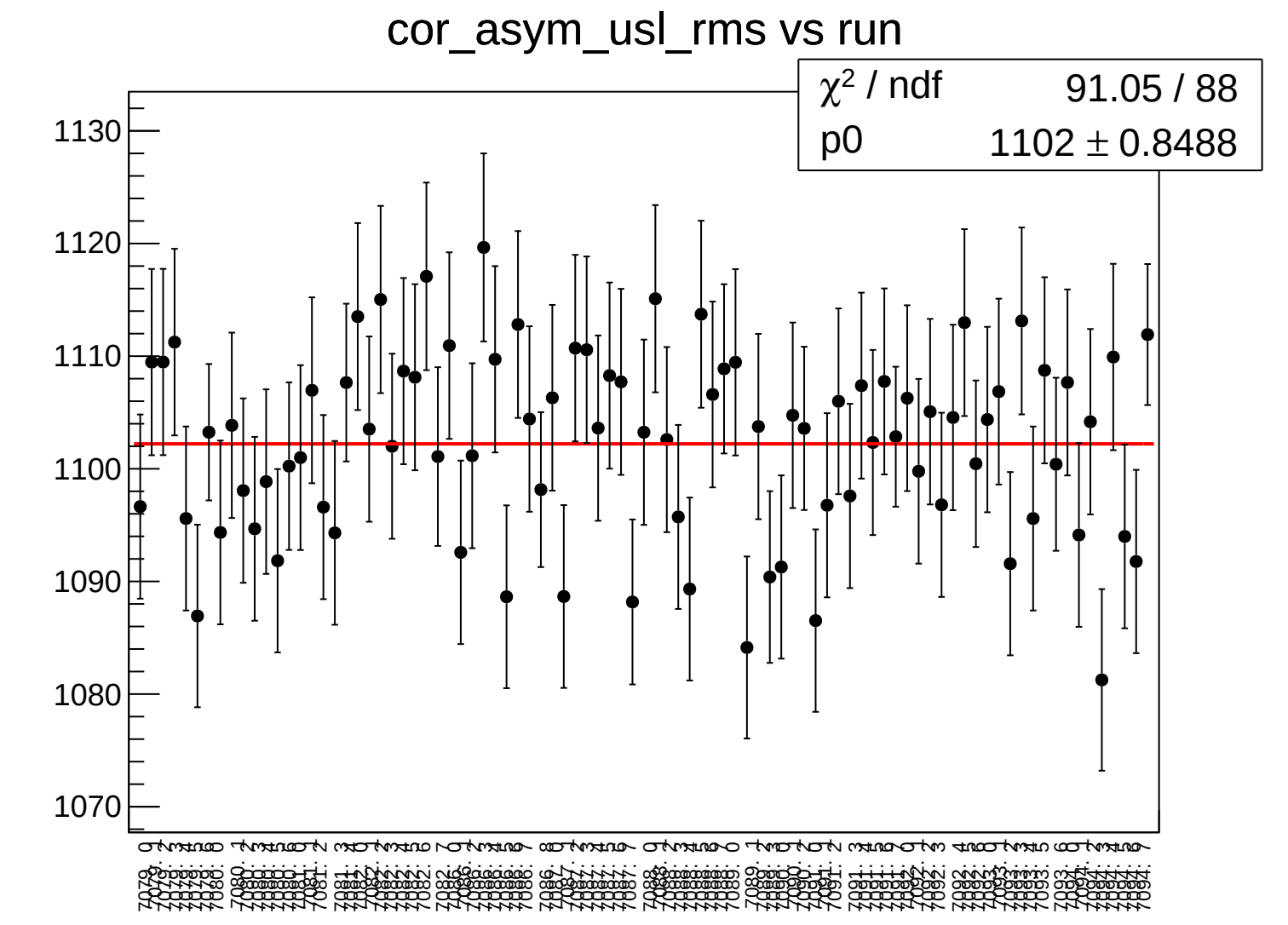

asym_usl_reg_correction_mean vs run
χ² / ndf 64.97 / 88
p0 −1235 ± 1862
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1063
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

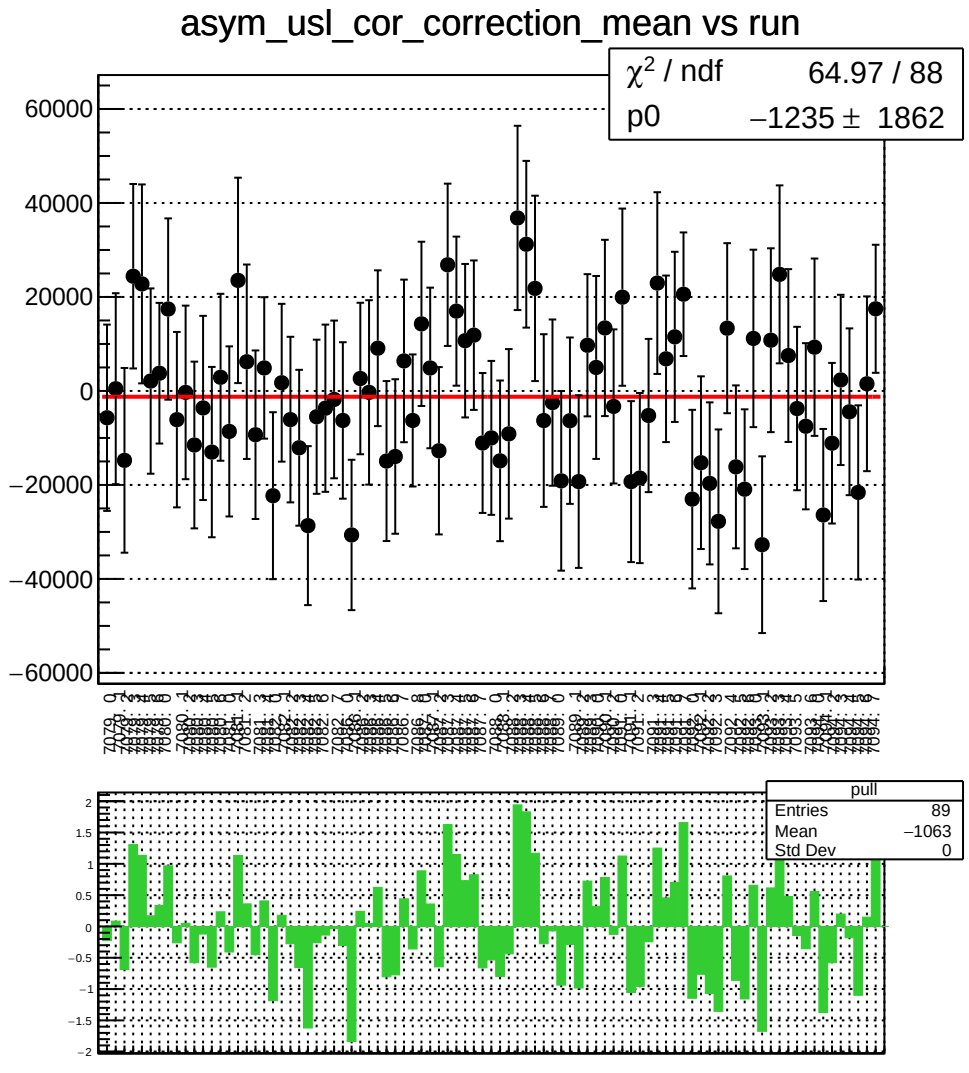

pull1D
Entries 89
Mean 0.0006316
Std Dev 0.8544
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

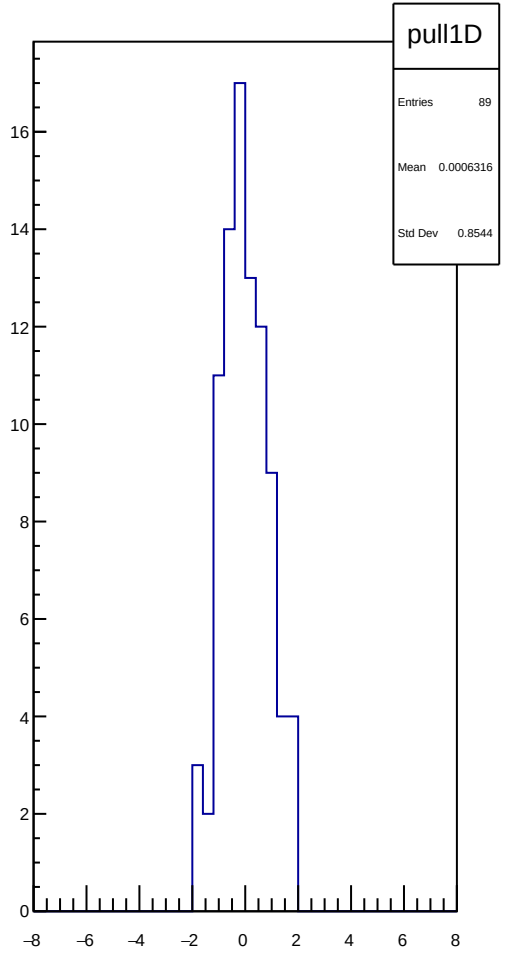

asym_usl_reg_correction_rms vs run
χ² / ndf 8036 / 88
p0 1705 ± 1.316
2100
2000
1900
1800
1700
1600
1500

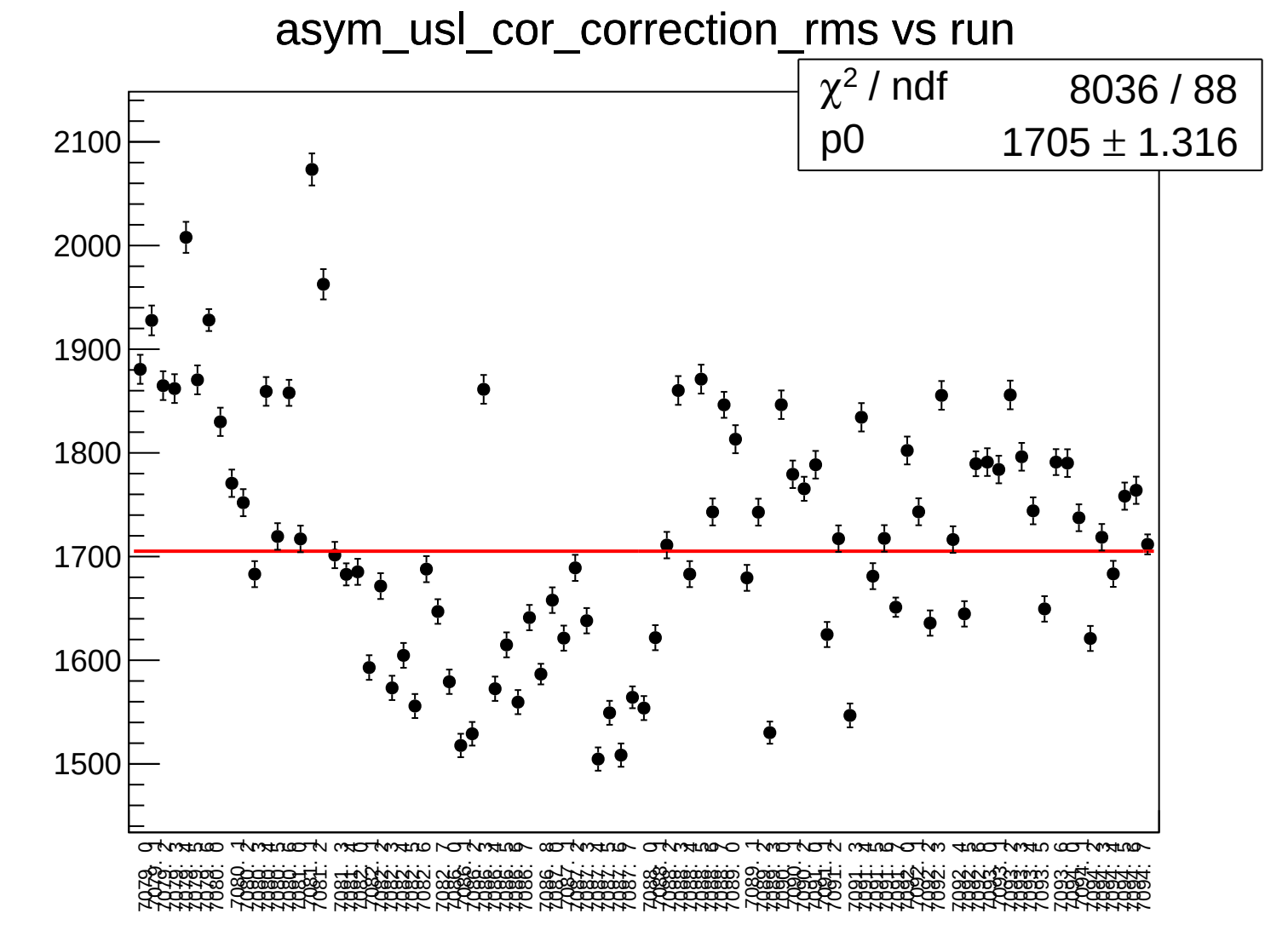

cor_asym_usl_mean vs run
χ² / ndf 102 / 88
p0 2298 ± 1200
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −5.987
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

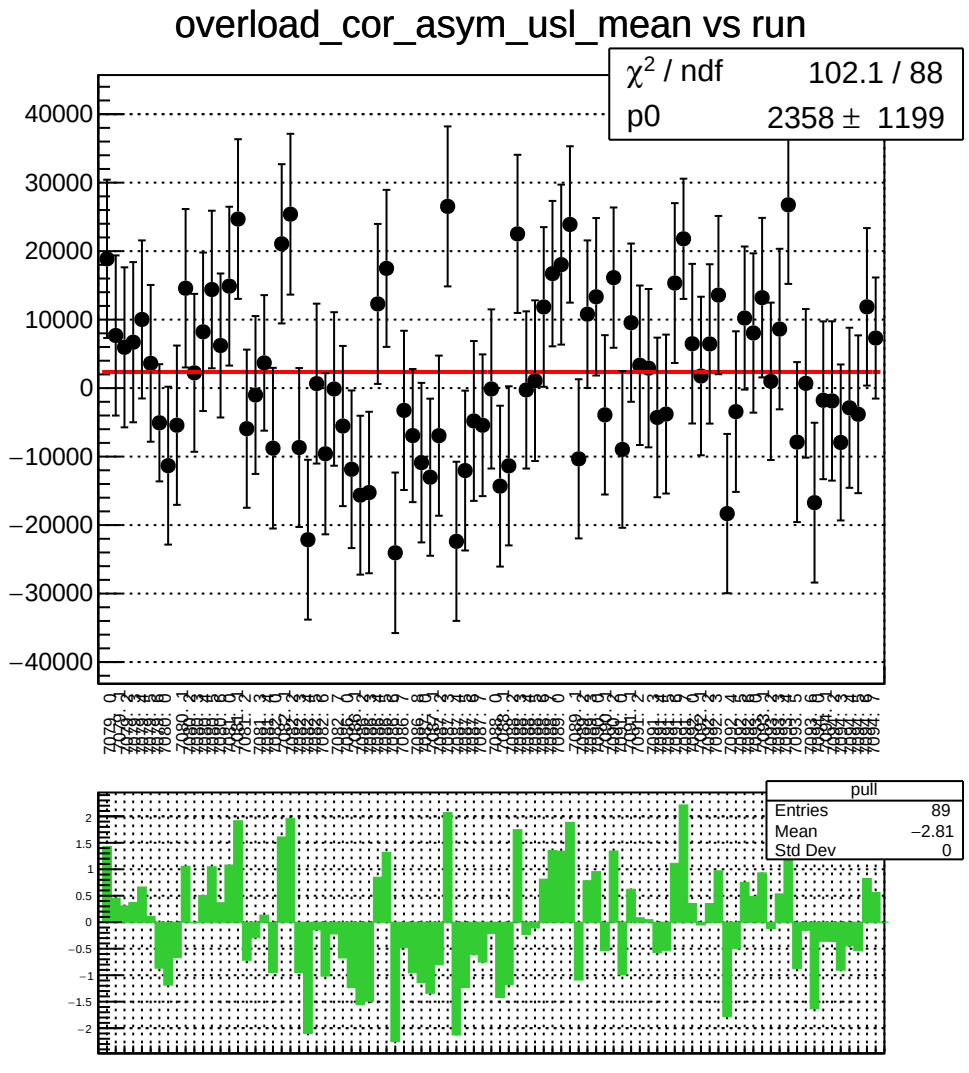

pull1D
Entries 89
Mean −0.01012
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

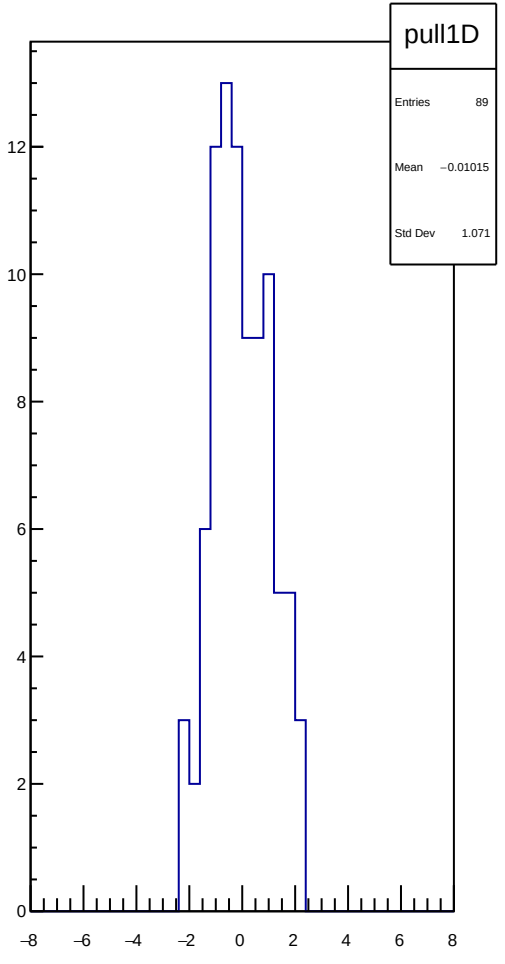

cor_asym_usl_rms vs run
χ^2 / ndf 91.05 / 88
p0 1102 ± 0.8488
1130
1120
1110
1100
1090
1080
1070

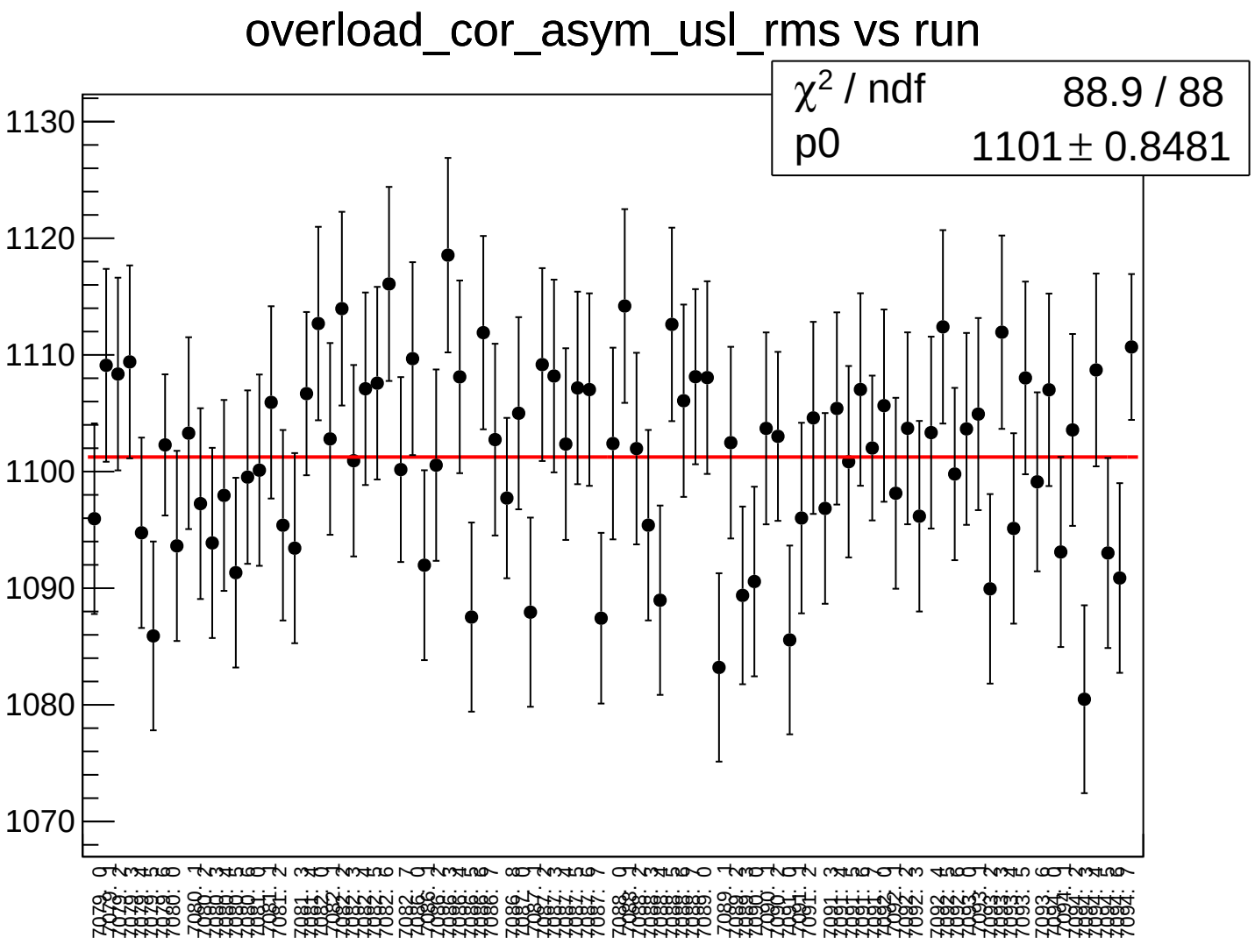

asym_usl_cor_correction_mean vs run
χ² / ndf 64.97 / 88
p0 −1235 ± 1862
pull
Entries 89
Mean −1063
Std Dev 0

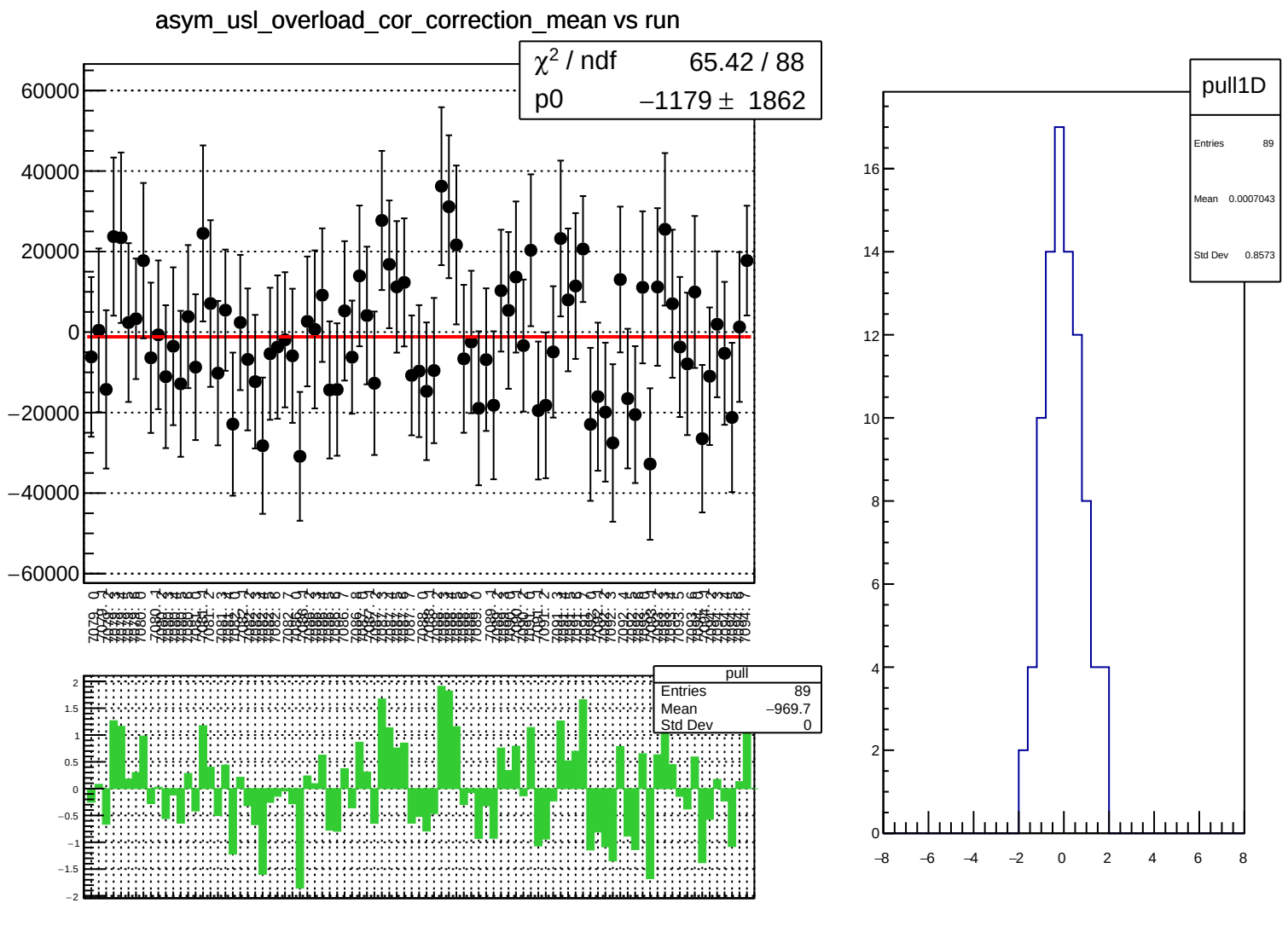

pull1D
Entries 89
Mean 0.0006316
Std Dev 0.8544

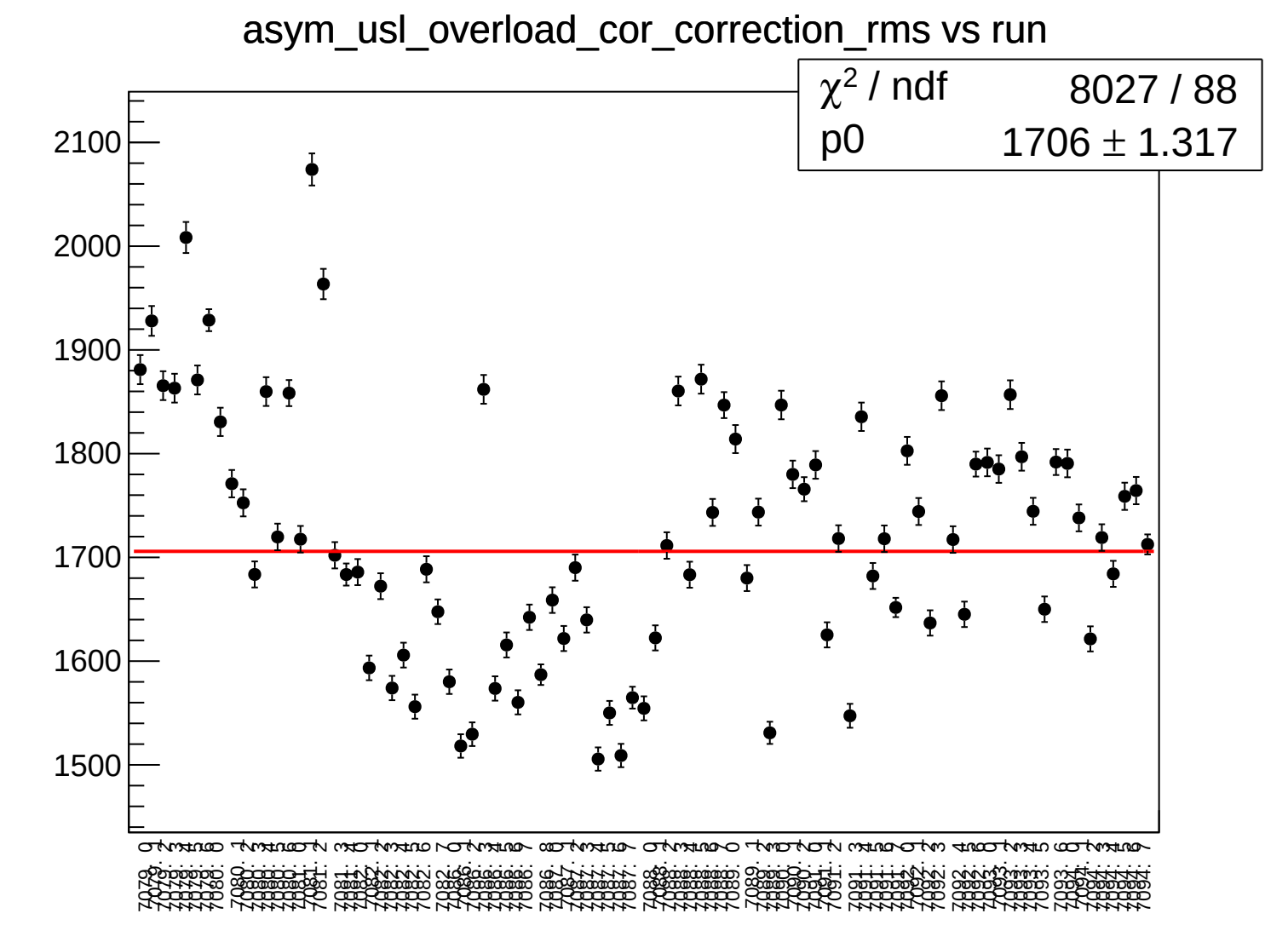

asym_usl_cor_correction_rms vs run
χ² / ndf 8036 / 88
p0 1705 ± 1.316
2100
2000
1900
1800
1700
1600
1500

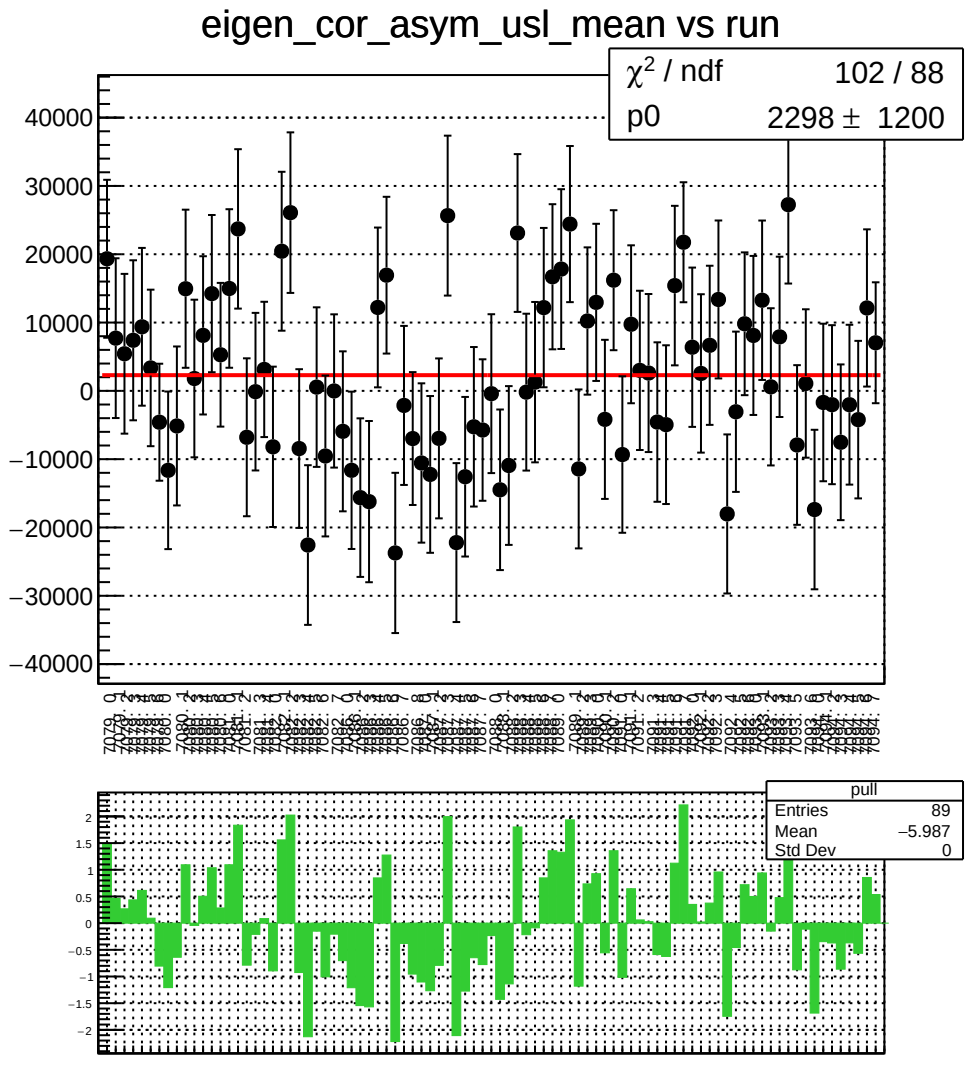

overload_cor_asym_usl_mean vs run
χ² / ndf 102.1 / 88
p0 2358 ± 1199
pull
Entries 89
Mean −2.81
Std Dev 0

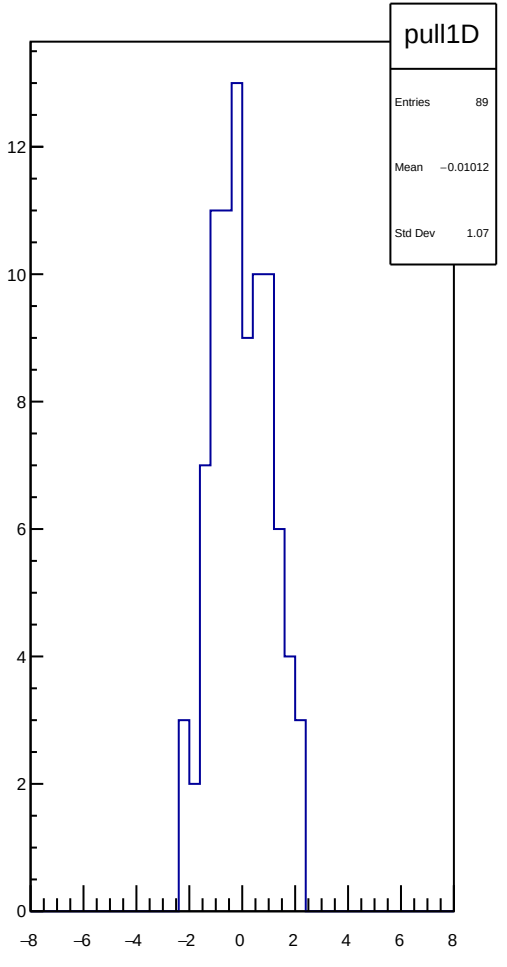

pull1D
Entries 89
Mean −0.01015
Std Dev 1.071

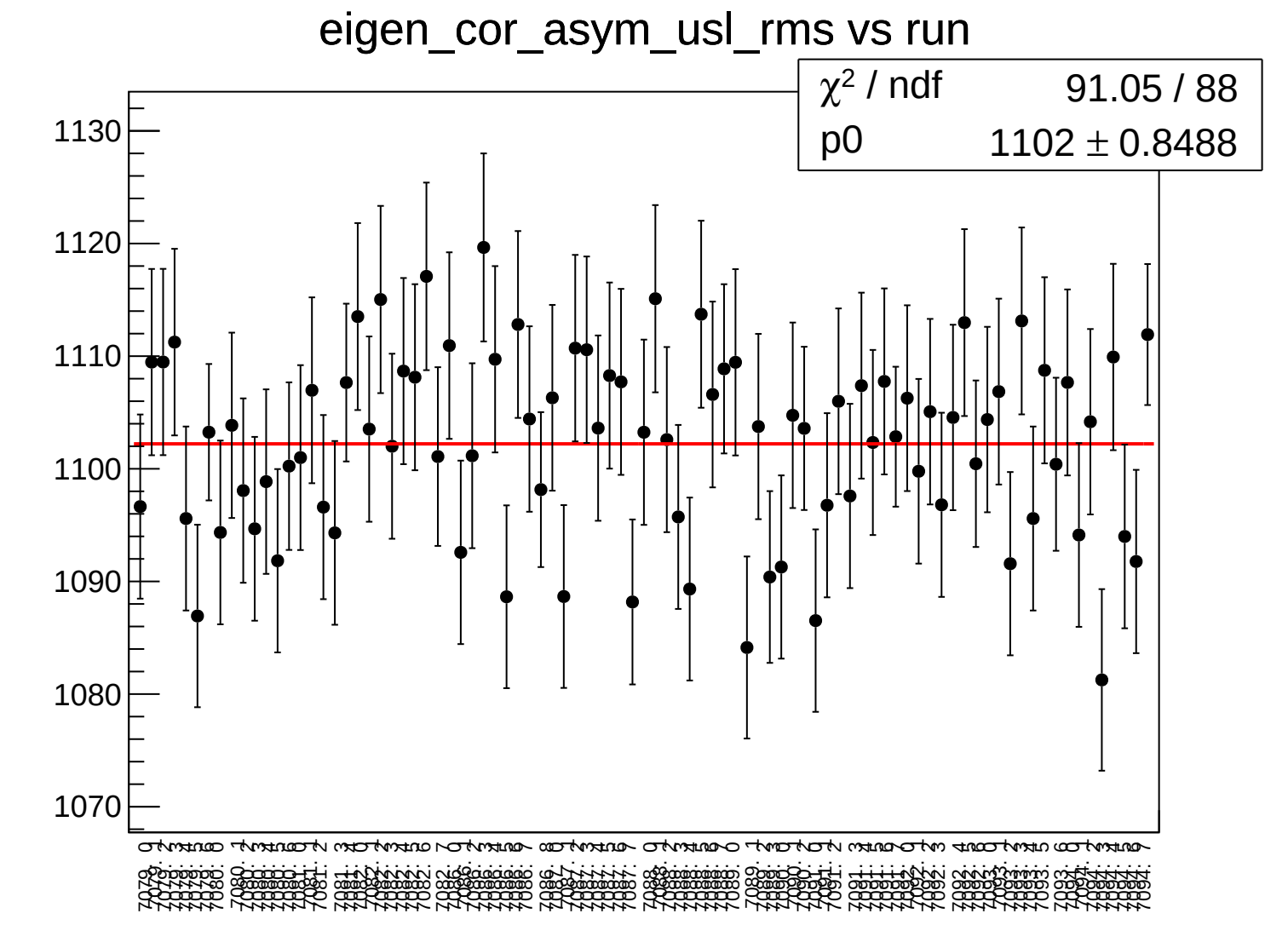

overload_cor_asym_usl_rms vs run
χ² / ndf 88.9 / 88
p0 1101 ± 0.8481
1130
1120
1110
1100
1090
1080
1070

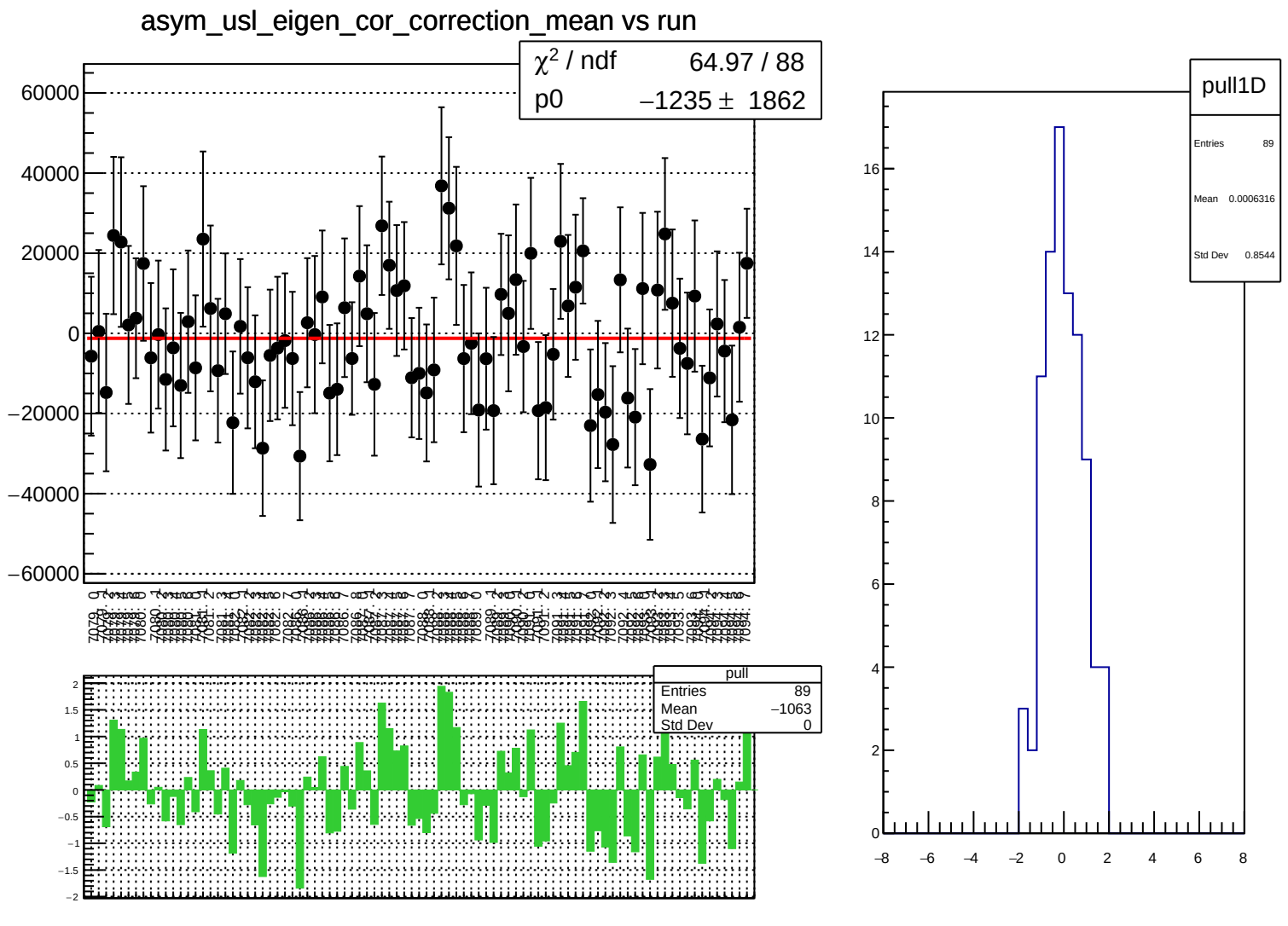

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 65.42 / 88
p0 −1179 ± 1862
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −969.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.0007043
Std Dev 0.8573
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

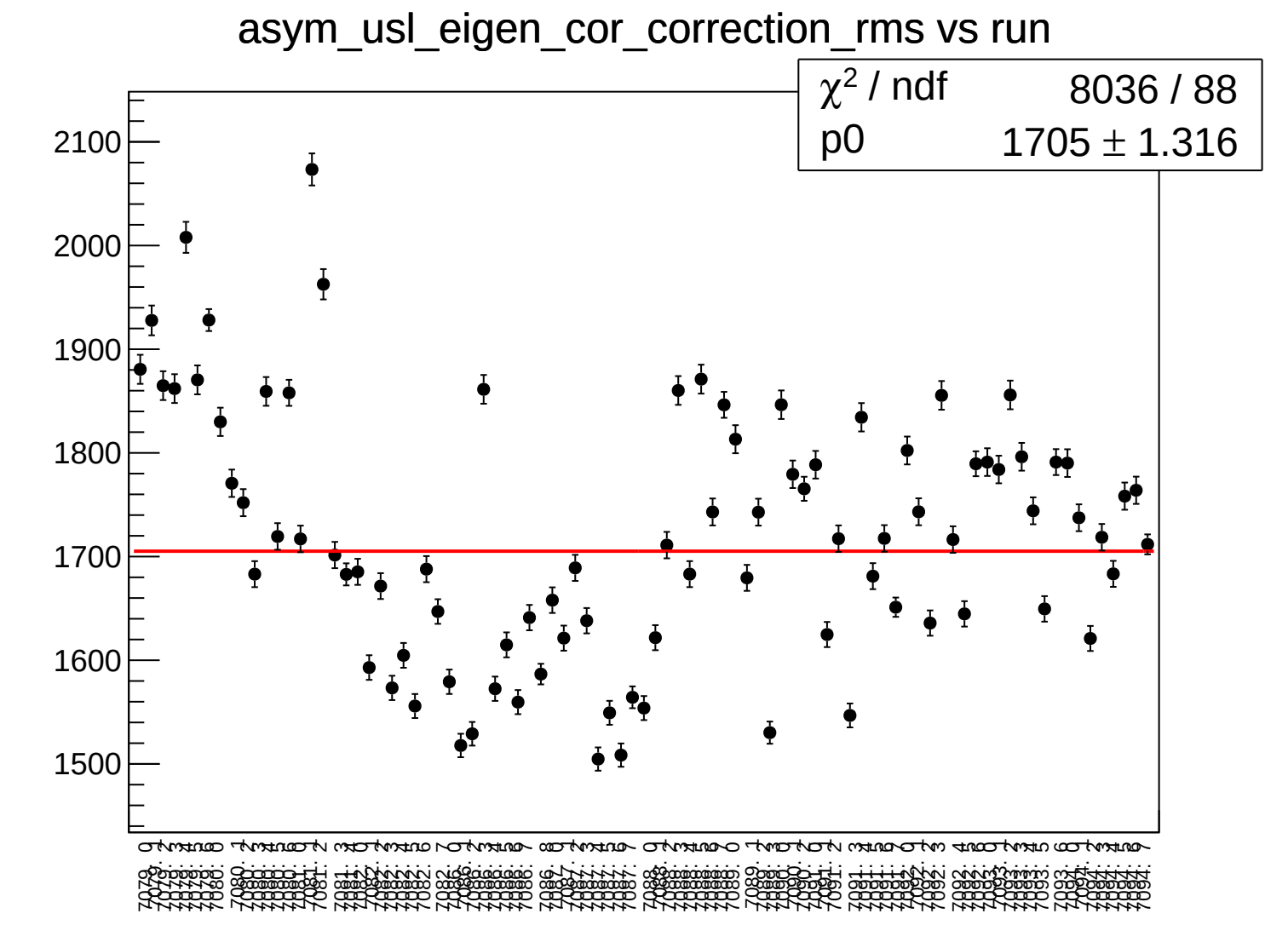

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 8027 / 88
p0 1706 ± 1.317
2100
2000
1900
1800
1700
1600
1500

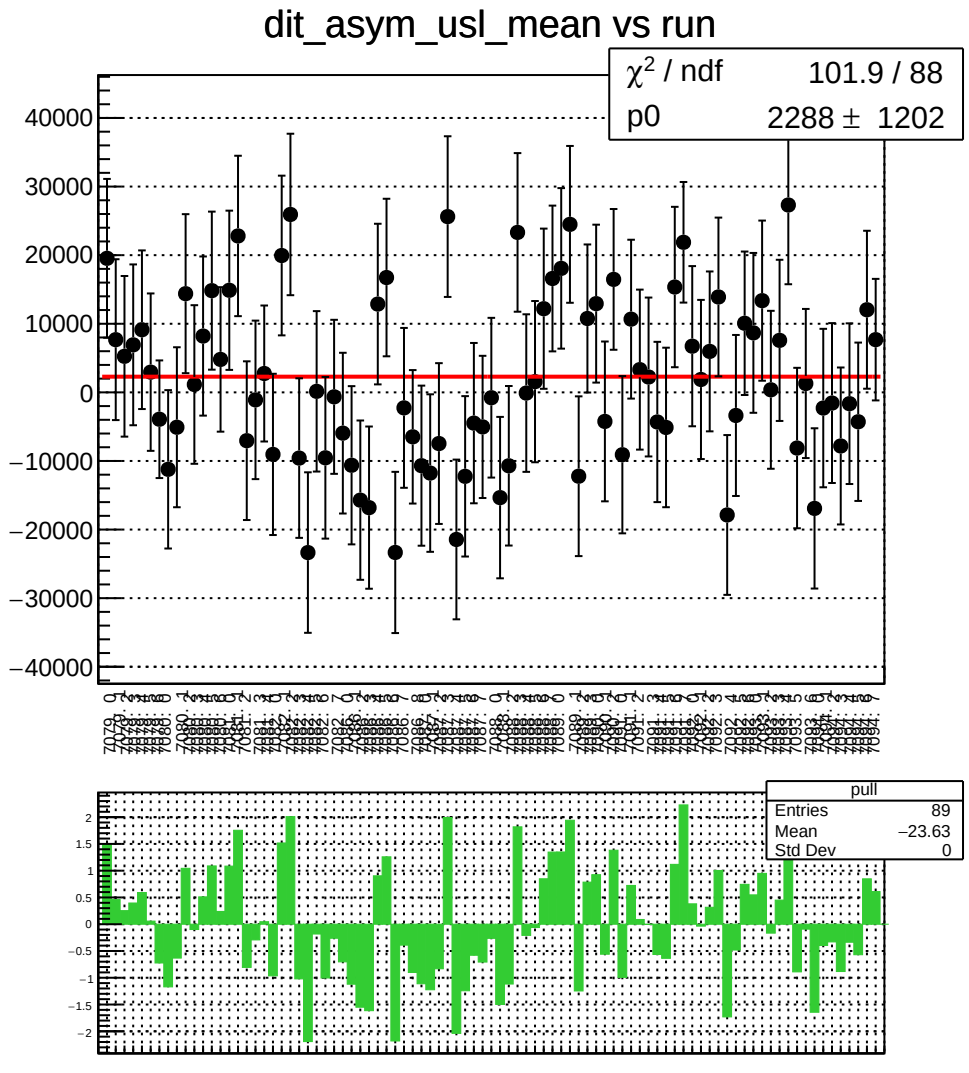

eigen_cor_asym_usl_mean vs run
χ² / ndf 102 / 88
p0 2298 ± 1200
pull
Entries 89
Mean −5.987
Std Dev 0

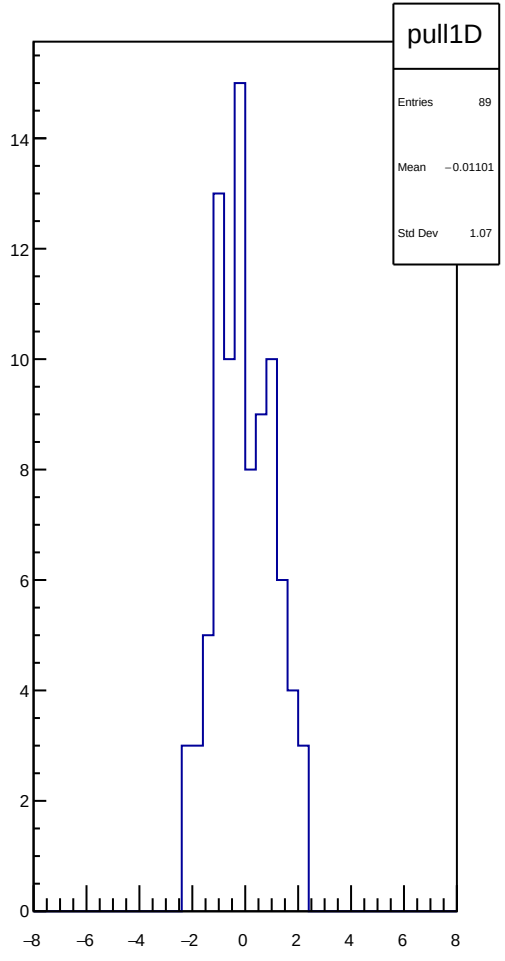

pull1D
Entries 89
Mean −0.01012
Std Dev 1.07

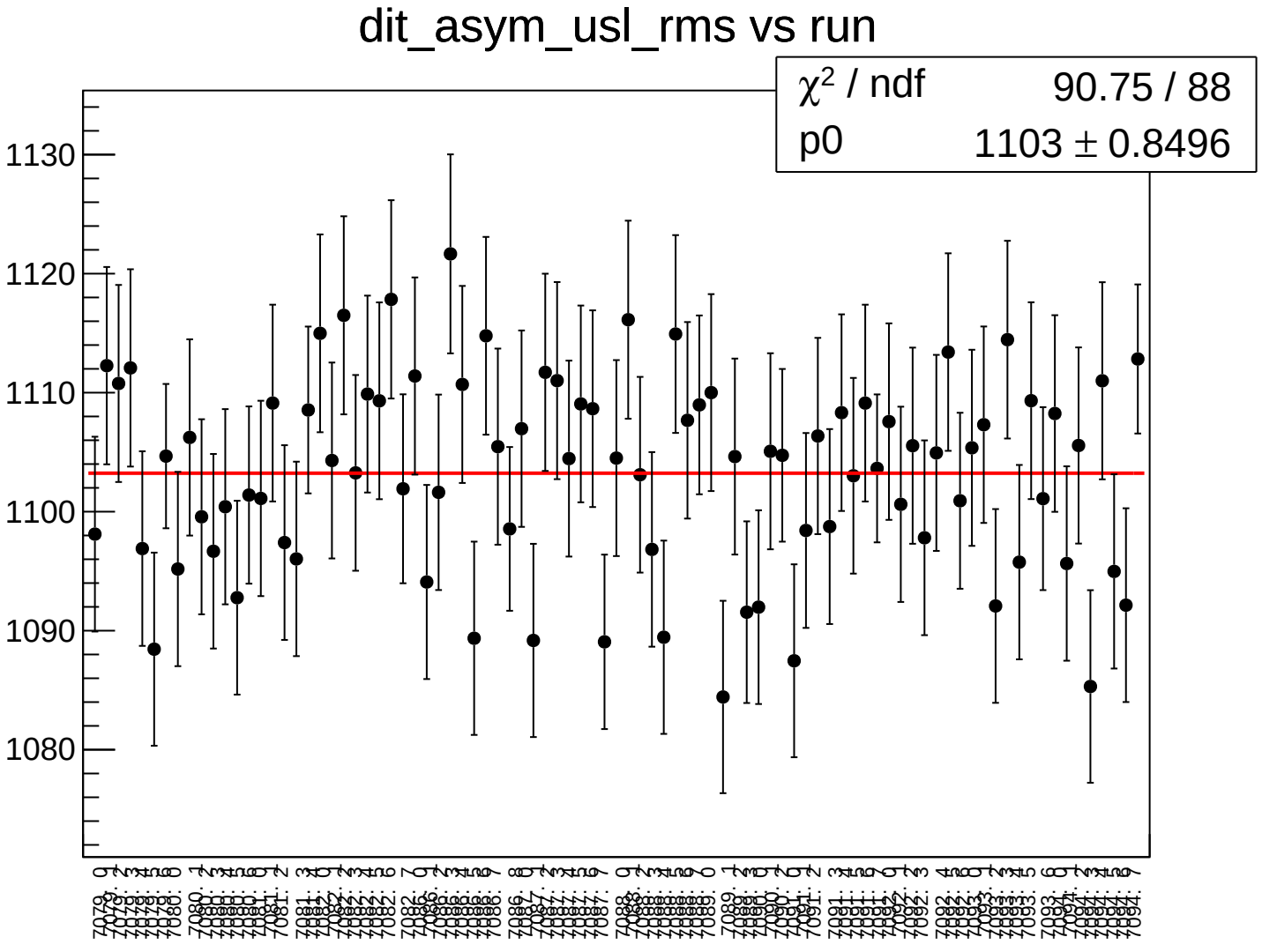

eigen_cor_asym_usl_rms vs run
χ² / ndf 91.05 / 88
p0 1102 ± 0.8488
1130
1120
1110
1100
1090
1080
1070

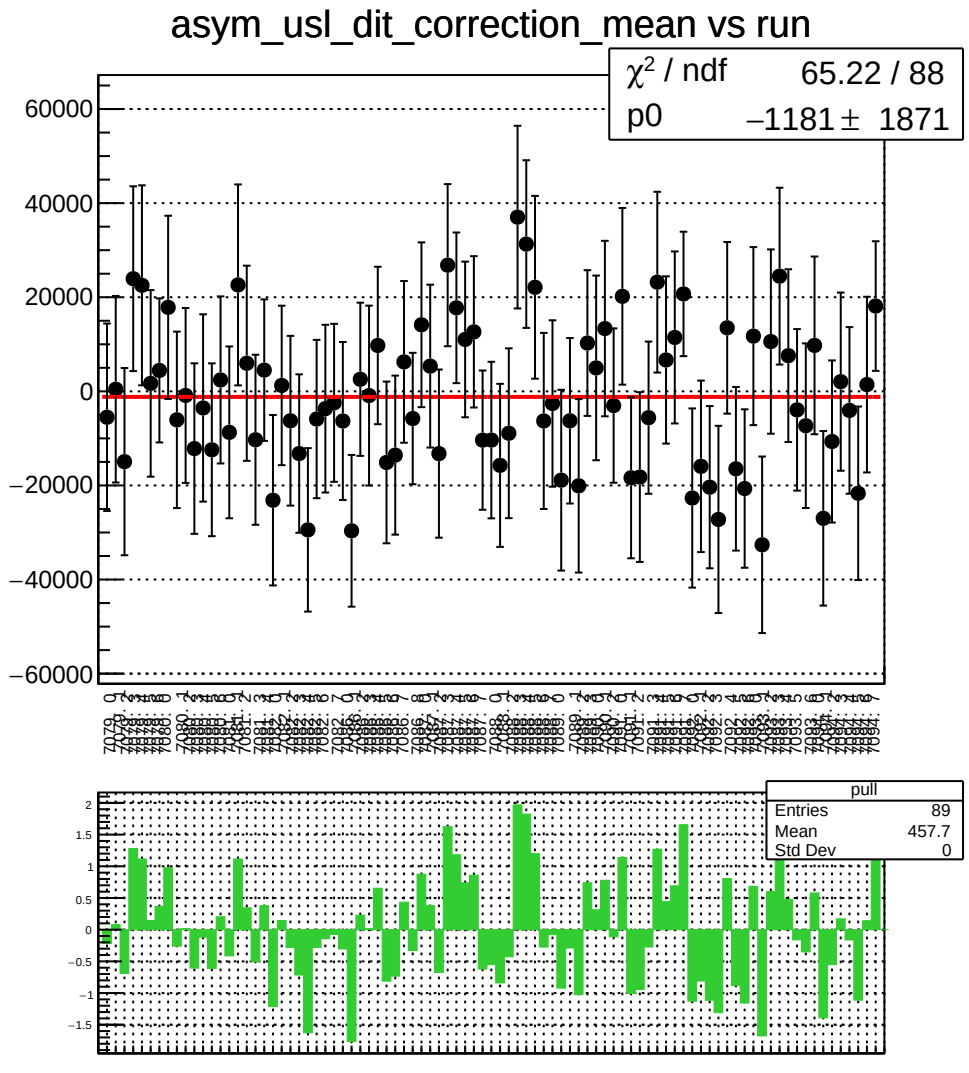

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 64.97 / 88
p0 −1235 ± 1862
pull
Entries 89
Mean −1063
Std Dev 0
pull1D
Entries 89
Mean 0.0006316
Std Dev 0.8544

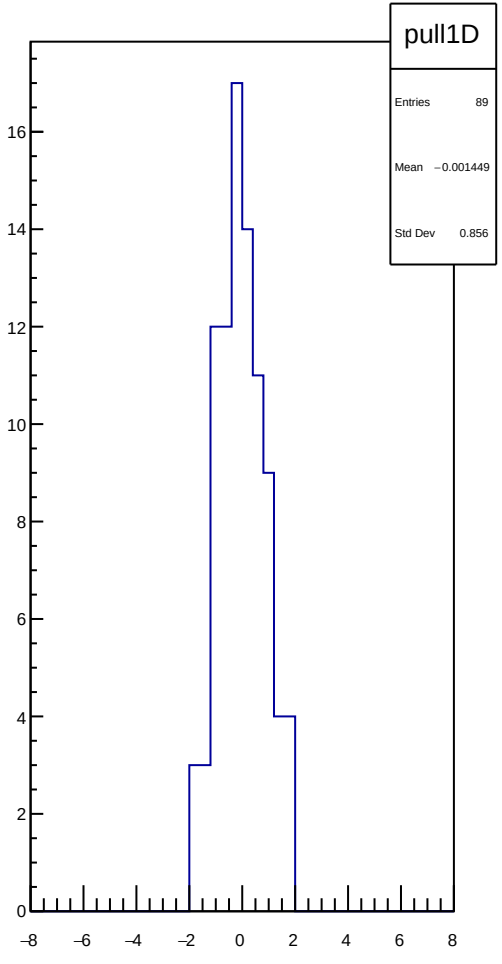

asym_usl_eigen_cor_correction_rms vs run
χ^2 / ndf 8036 / 88
p0 1705 ± 1.316
2100
2000
1900
1800
1700
1600
1500

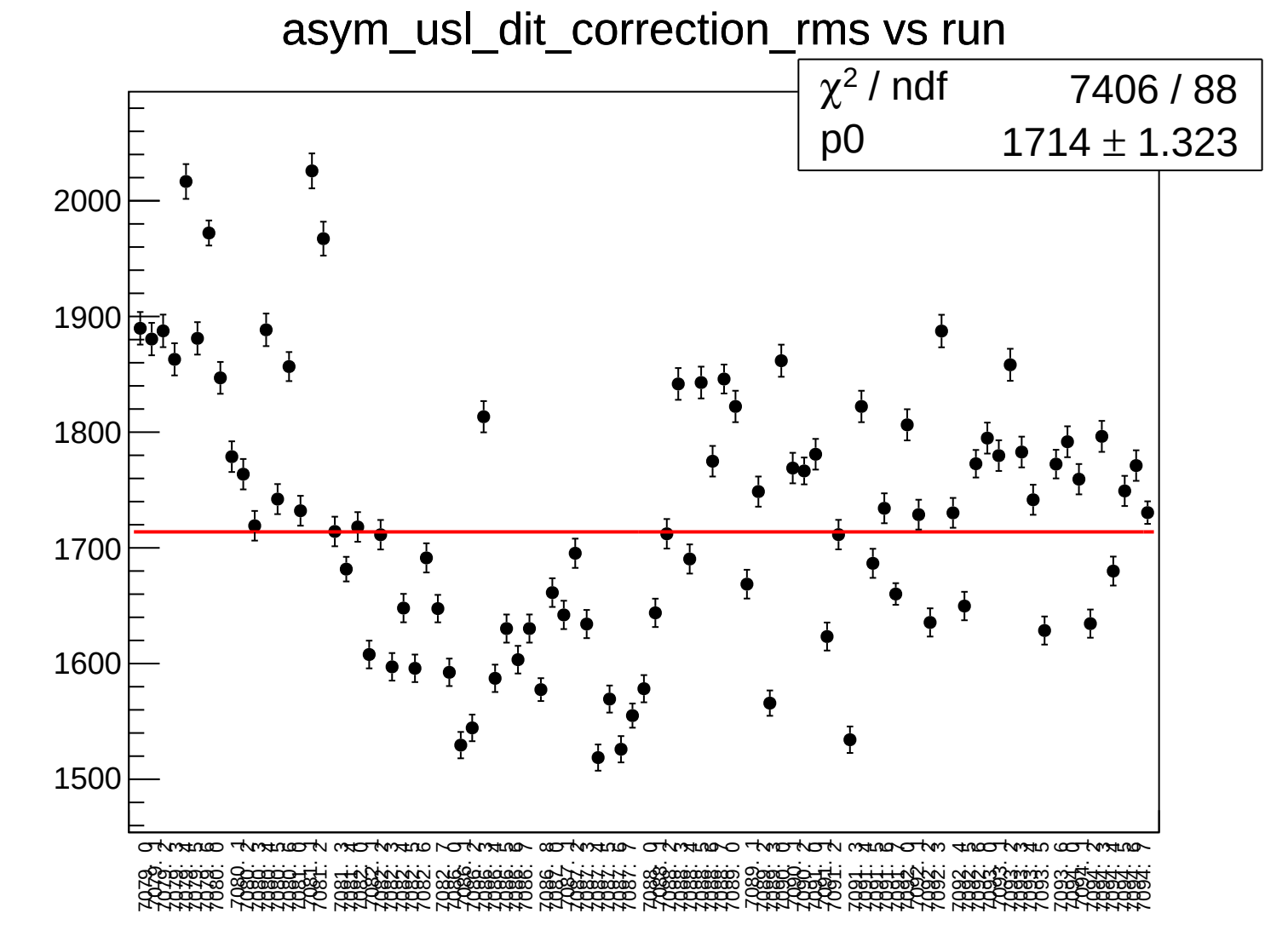

dit_asym_usl_mean vs run
χ² / ndf 101.9 / 88
p0 2288 ± 1202
pull
Entries 89
Mean −23.63
Std Dev 0

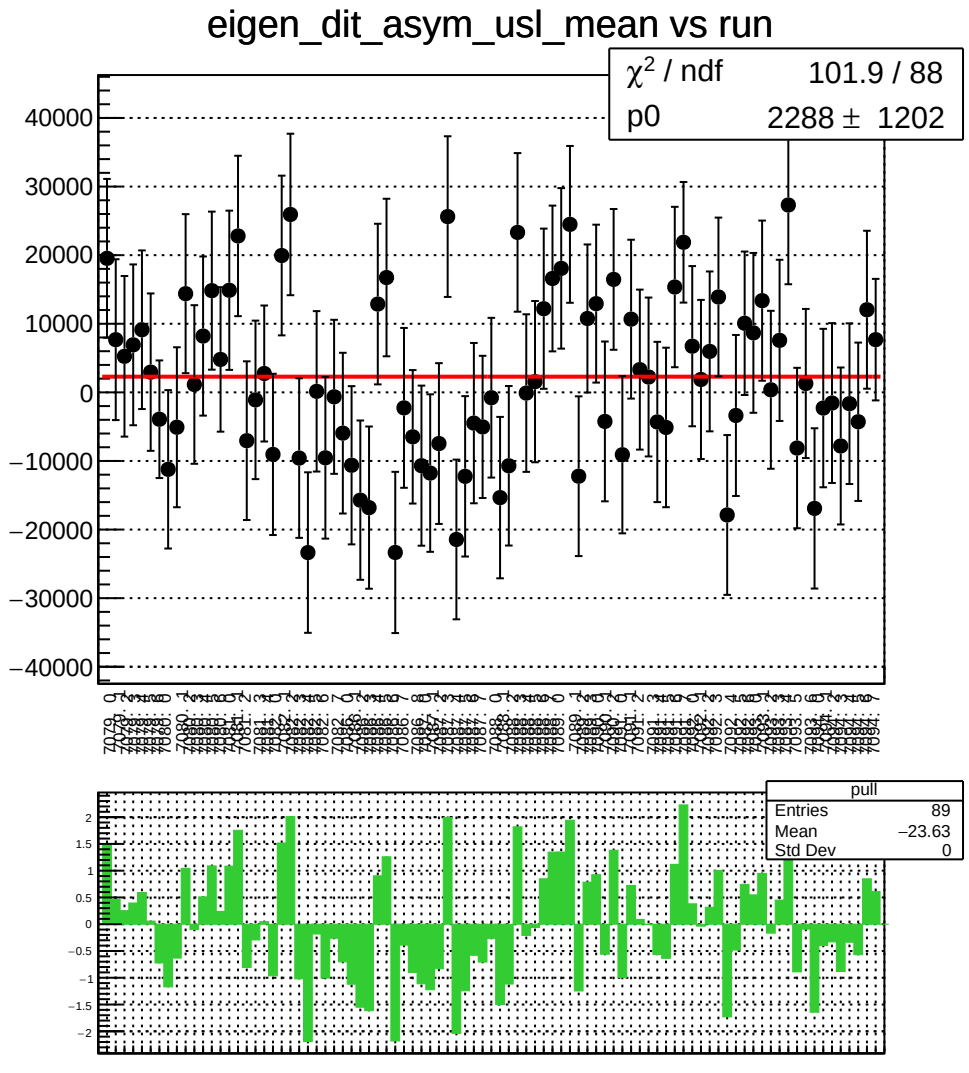

pull1D
Entries 89
Mean −0.01101
Std Dev 1.07

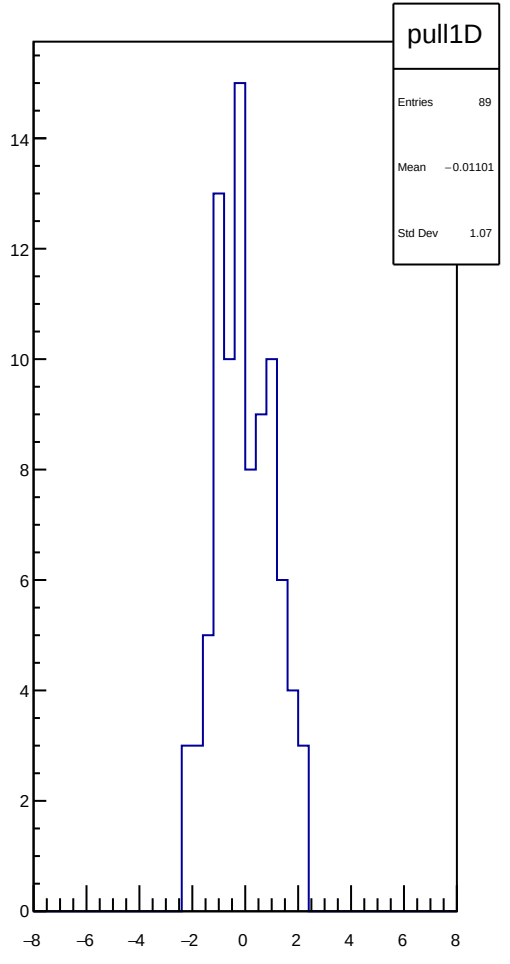

dit_asym_usl_rms vs run
χ^2 / ndf 90.75 / 88
p0 1103 ± 0.8496
1130
1120
1110
1100
1090
1080

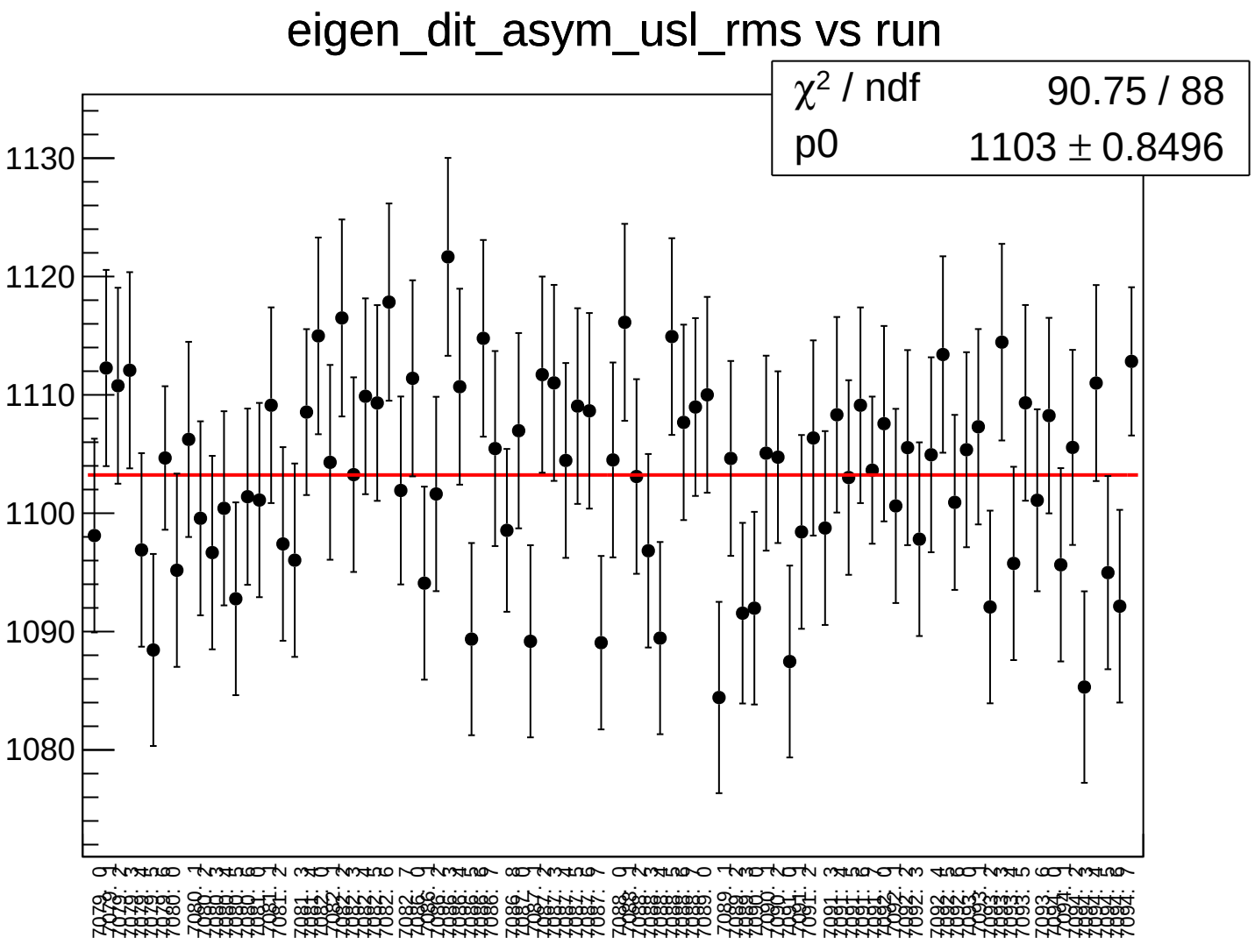

asym_usl_dit_correction_mean vs run
χ² / ndf 65.22 / 88
p0 −1181 ± 1871
pull
Entries 89
Mean 457.7
Std Dev 0

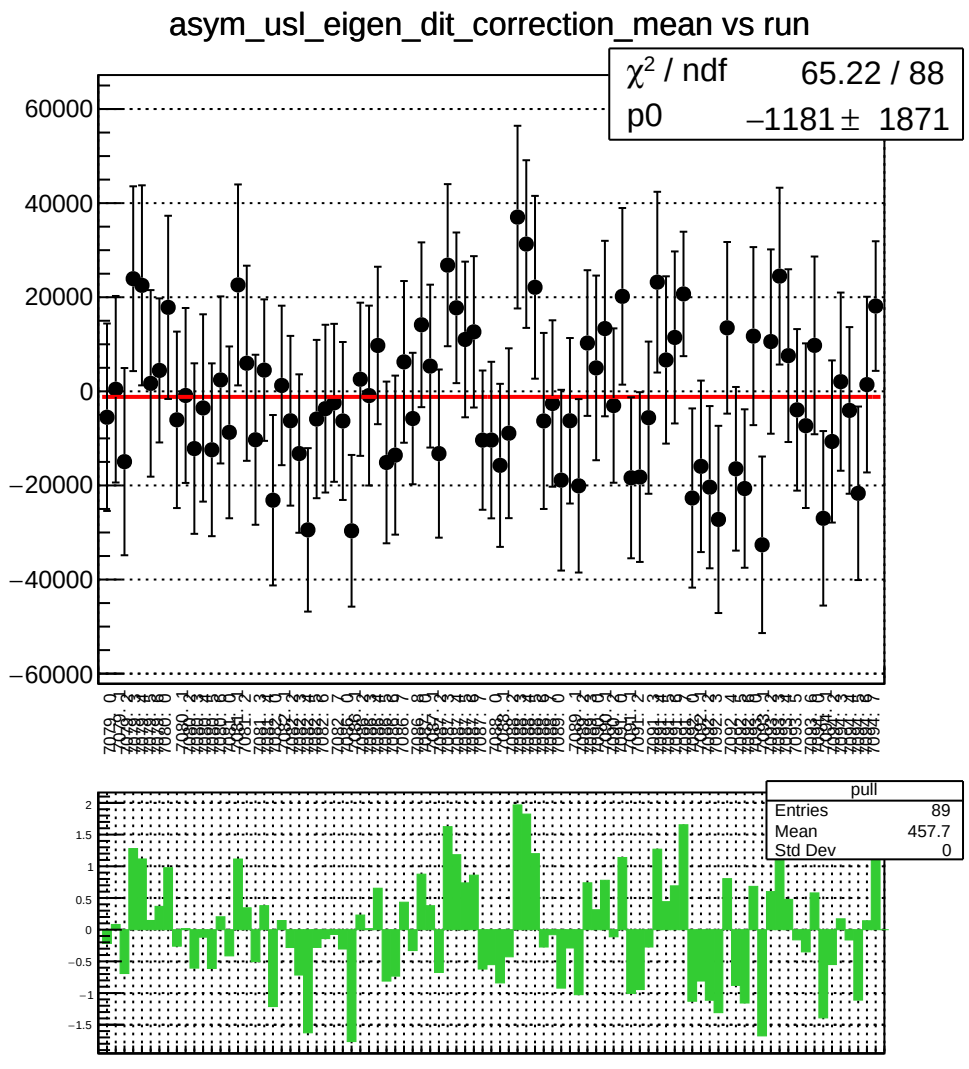

pull1D
Entries 89
Mean −0.001449
Std Dev 0.856

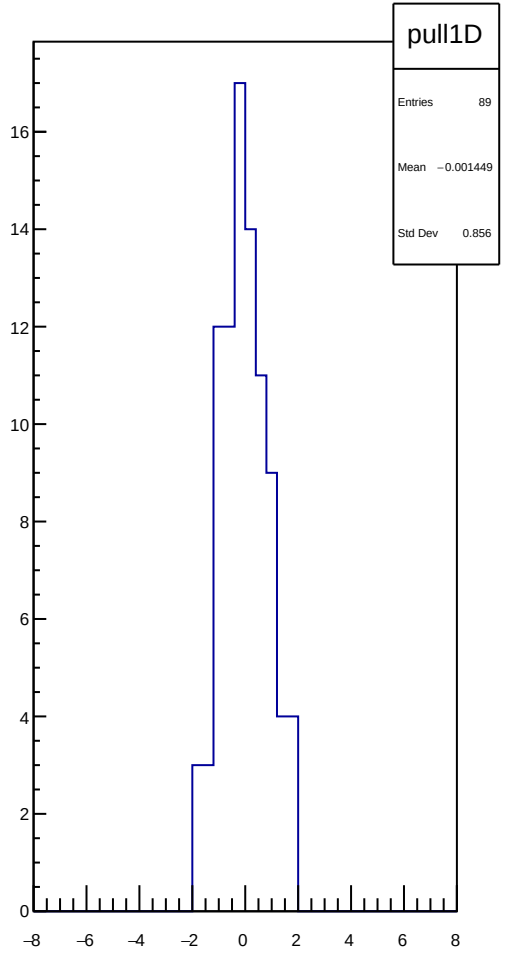

asym_usl_dit_correction_rms vs run
χ² / ndf 7406 / 88
p0 1714 ± 1.323
2000
1900
1800
1700
1600
1500

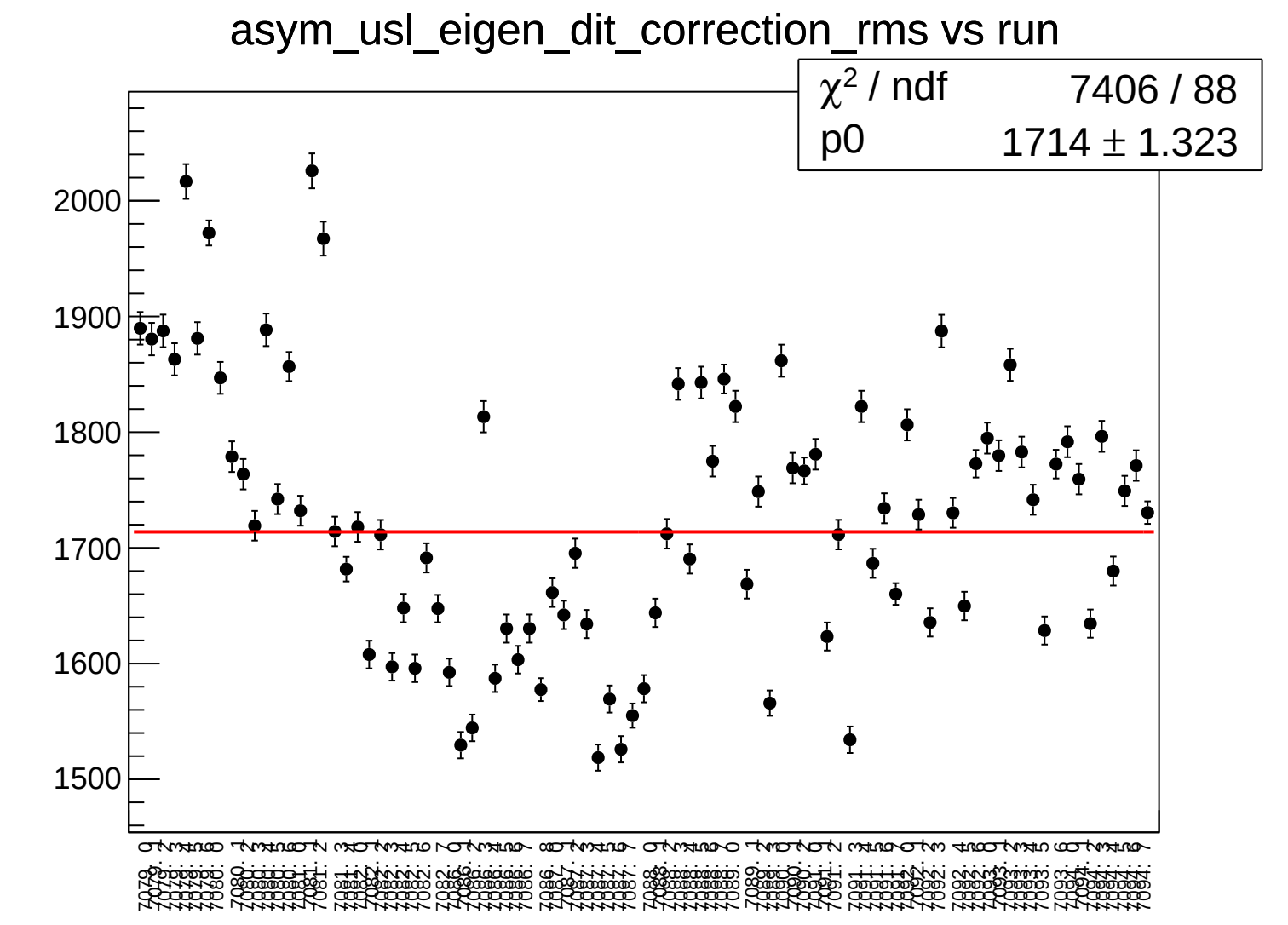

eigen_dit_asym_usl_mean vs run
χ² / ndf 101.9 / 88
p0 2288 ± 1202
pull
Entries 89
Mean −23.63
Std Dev 0

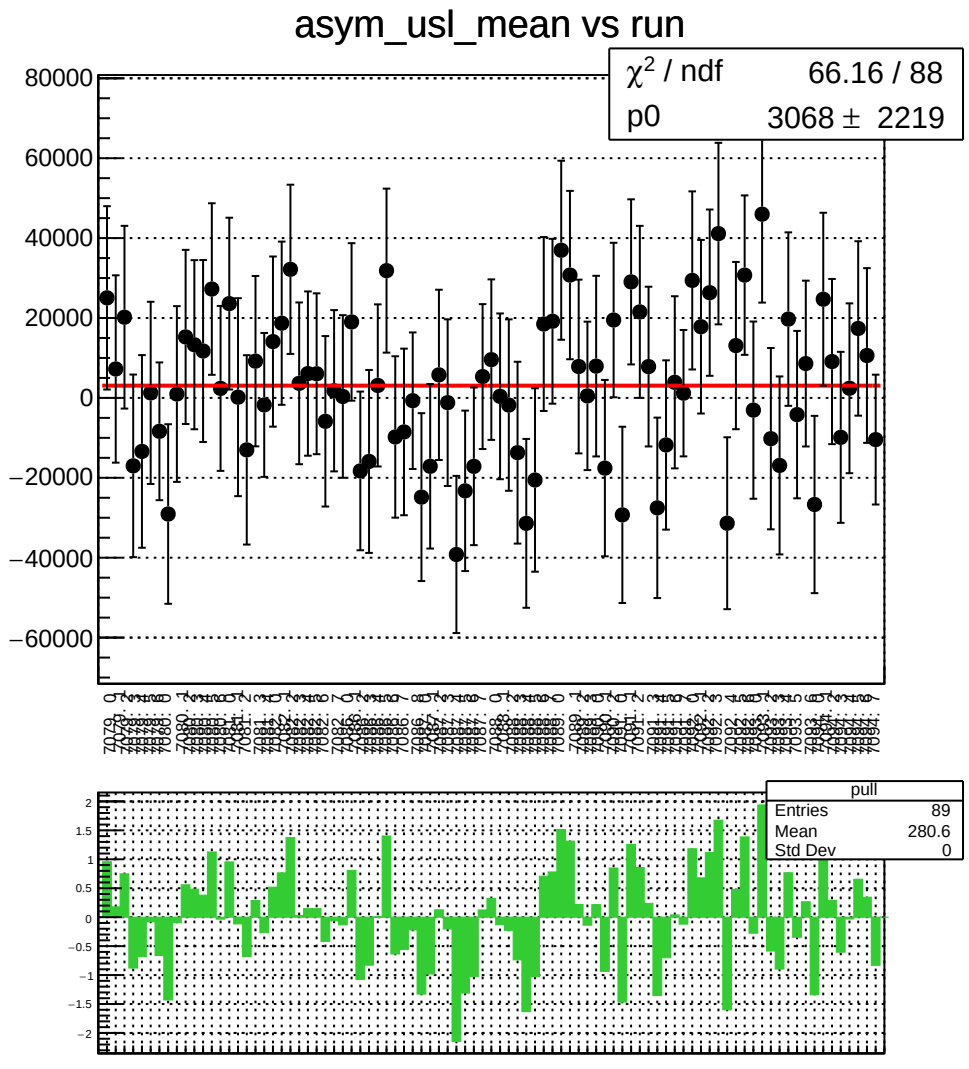

pull1D
Entries 89
Mean −0.01101
Std Dev 1.07

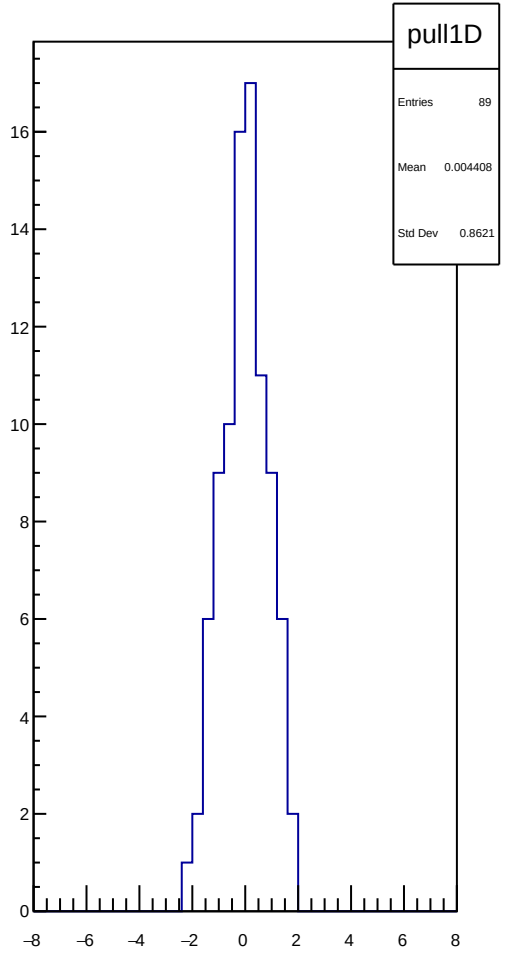

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 90.75 / 88
p0 1103 ± 0.8496
1130
1120
1110
1100
1090
1080

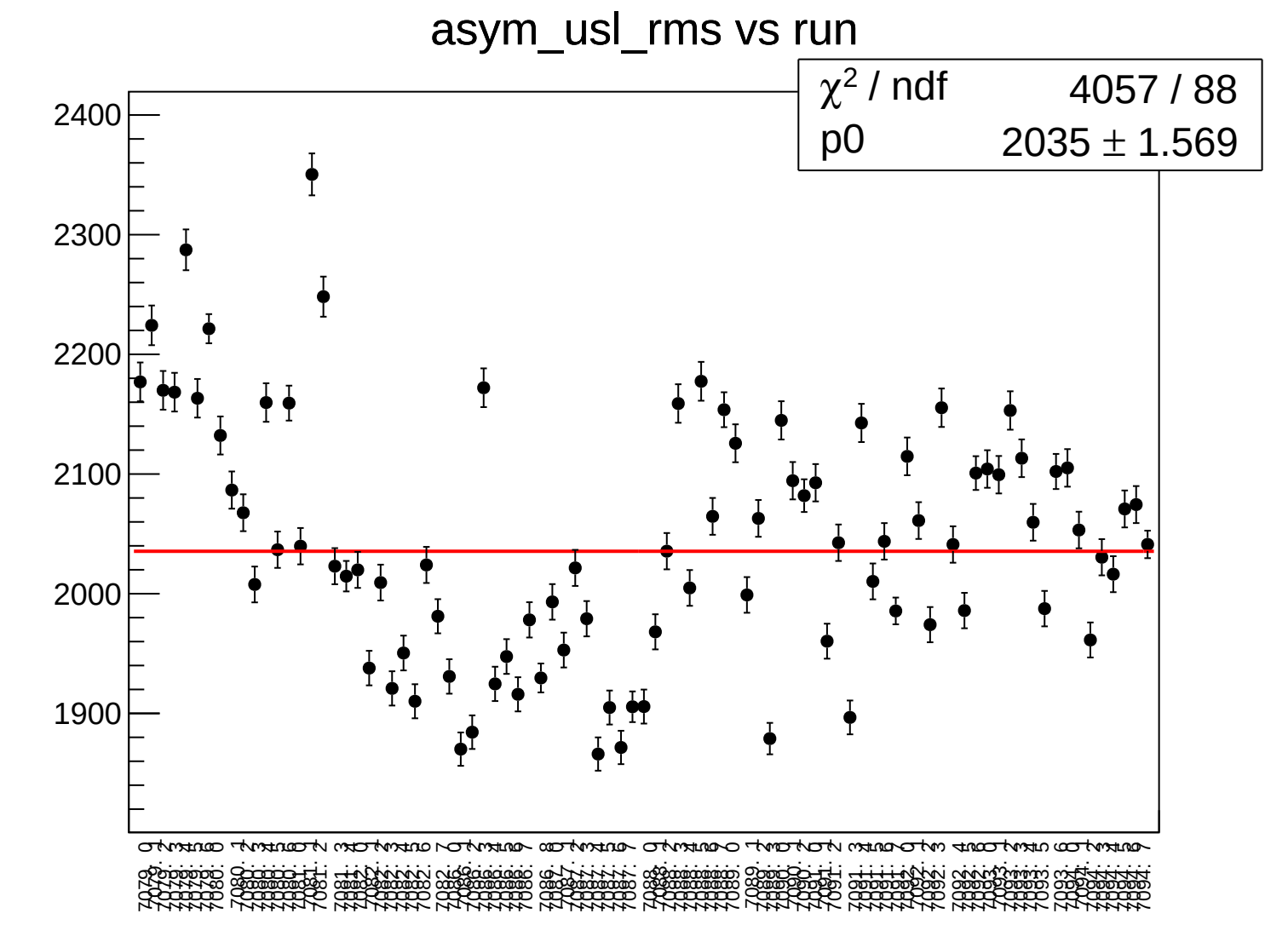

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 65.22 / 88
p0 −1181 ± 1871
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 457.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

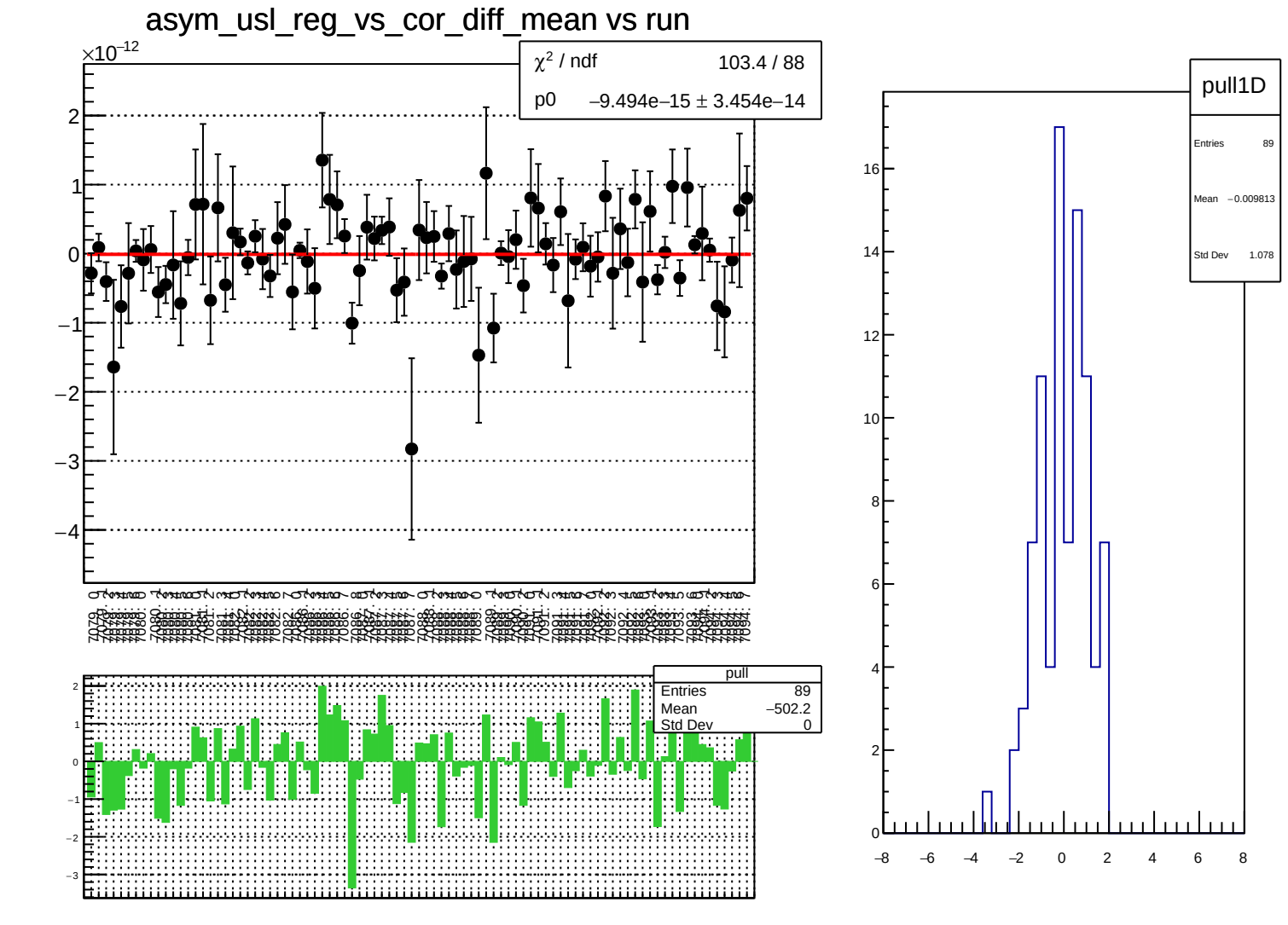

pull1D
Entries 89
Mean −0.001449
Std Dev 0.856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

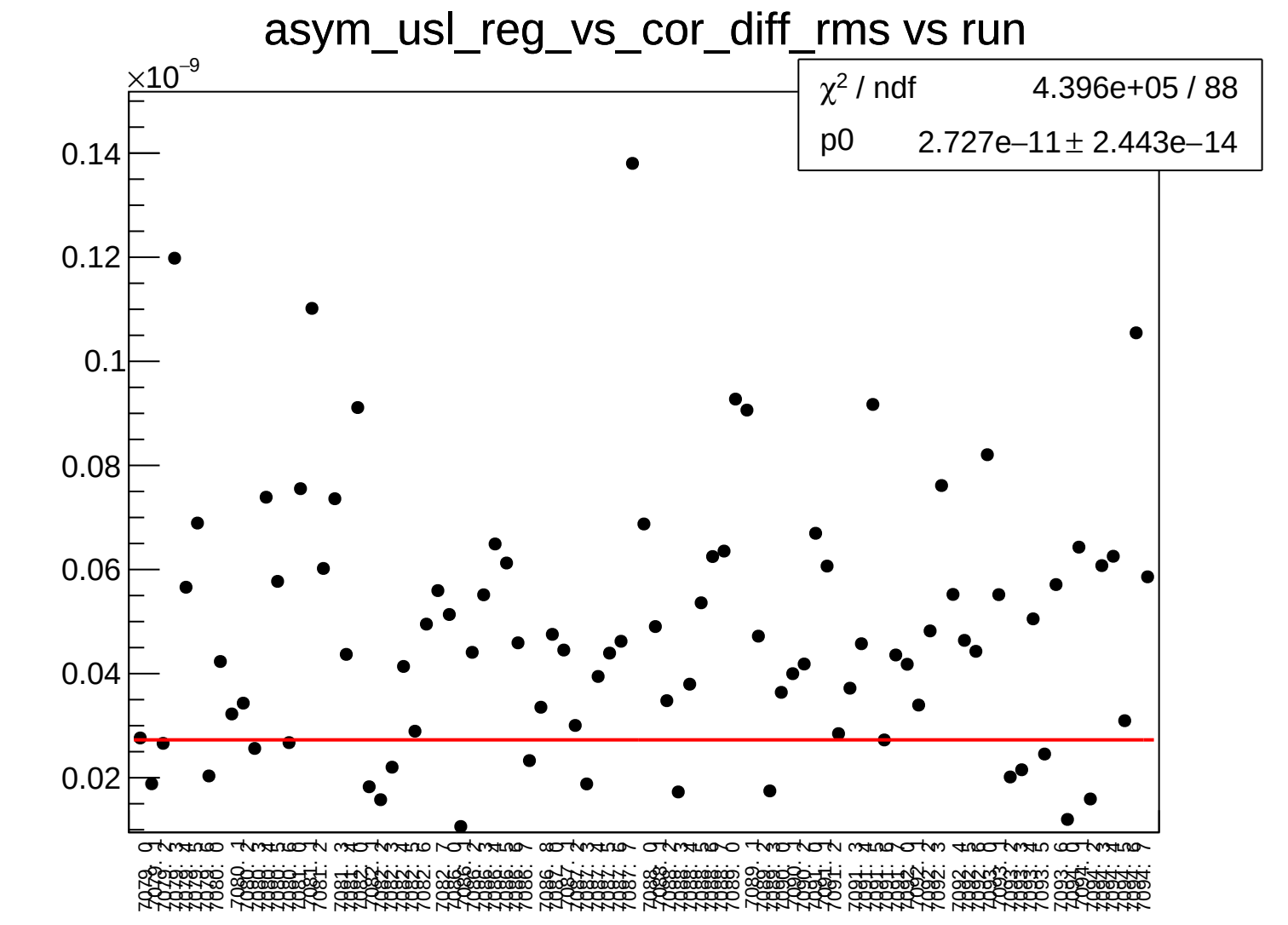

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 7406 / 88
p0 1714 ± 1.323
2000
1900
1800
1700
1600
1500

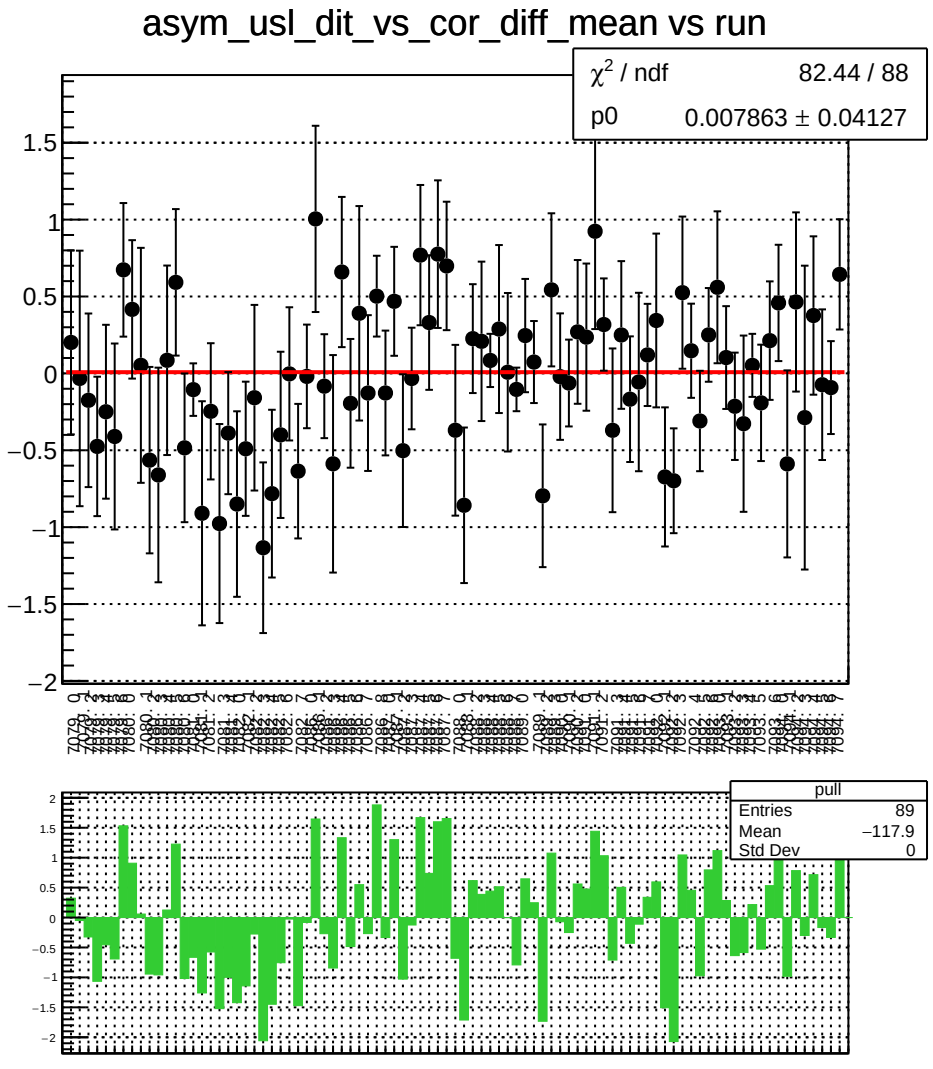

asym_usl_mean vs run
χ² / ndf 66.16 / 88
p0 3068 ± 2219
pull
Entries 89
Mean 280.6
Std Dev 0

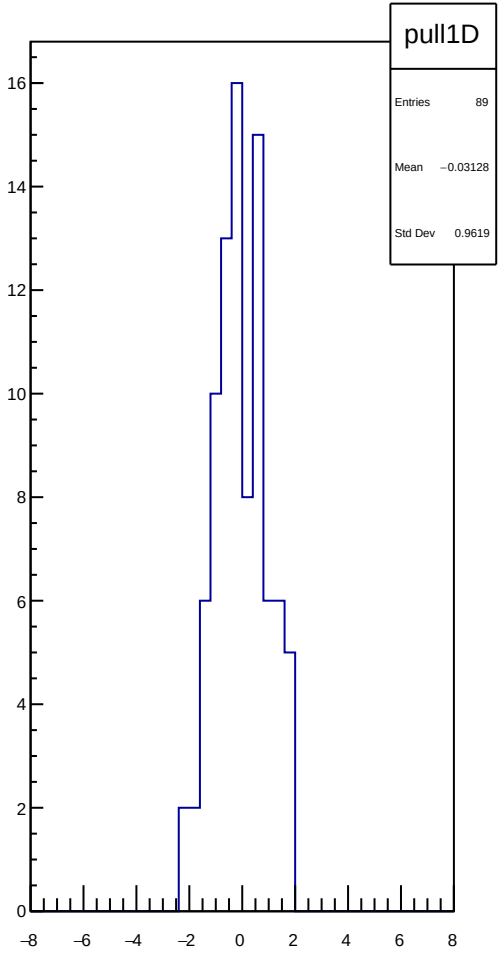

pull1D
Entries 89
Mean 0.004408
Std Dev 0.8621

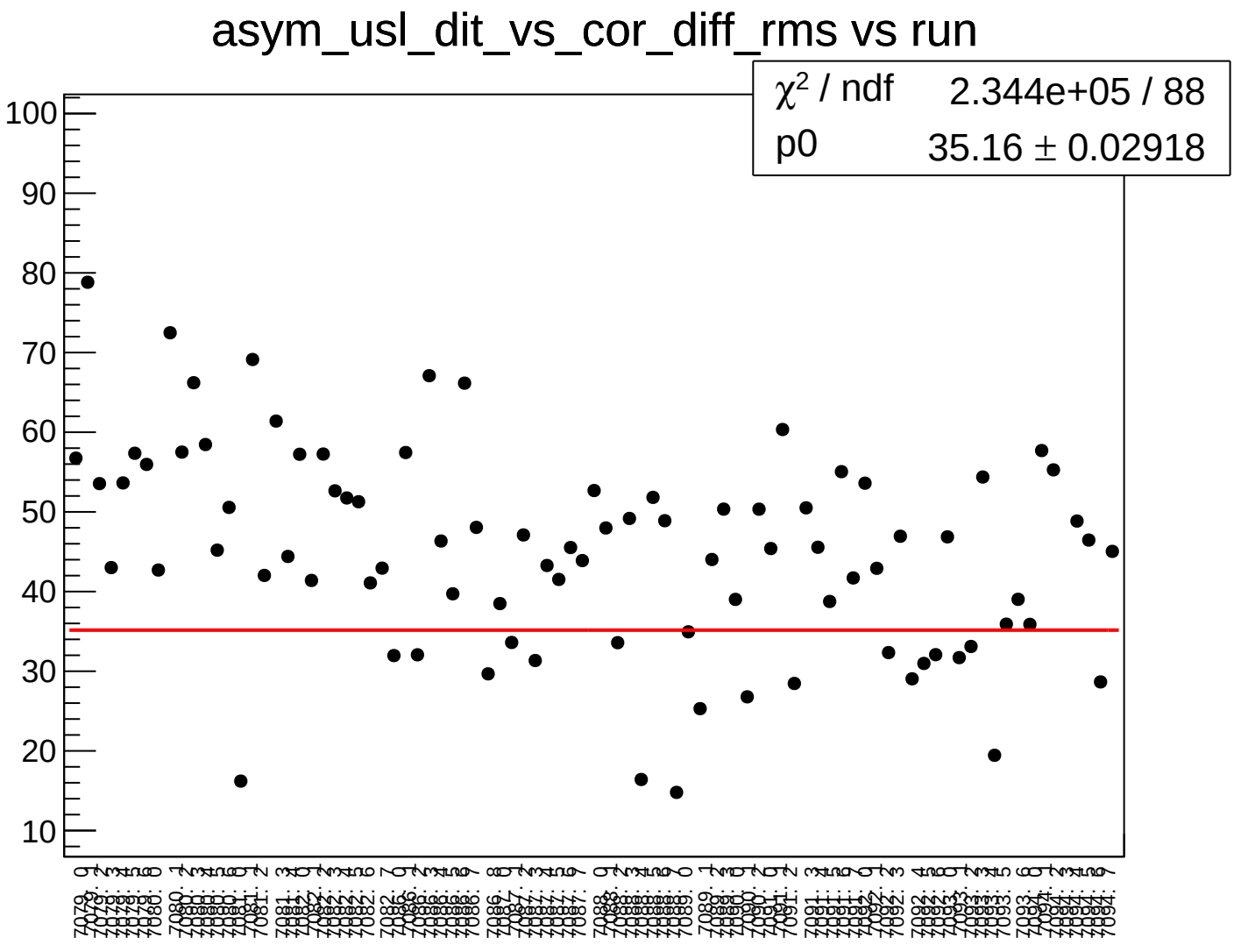

asym_usl_rms vs run
χ² / ndf 4057 / 88
p0 2035 ± 1.569
2400
2300
2200
2100
2000
1900

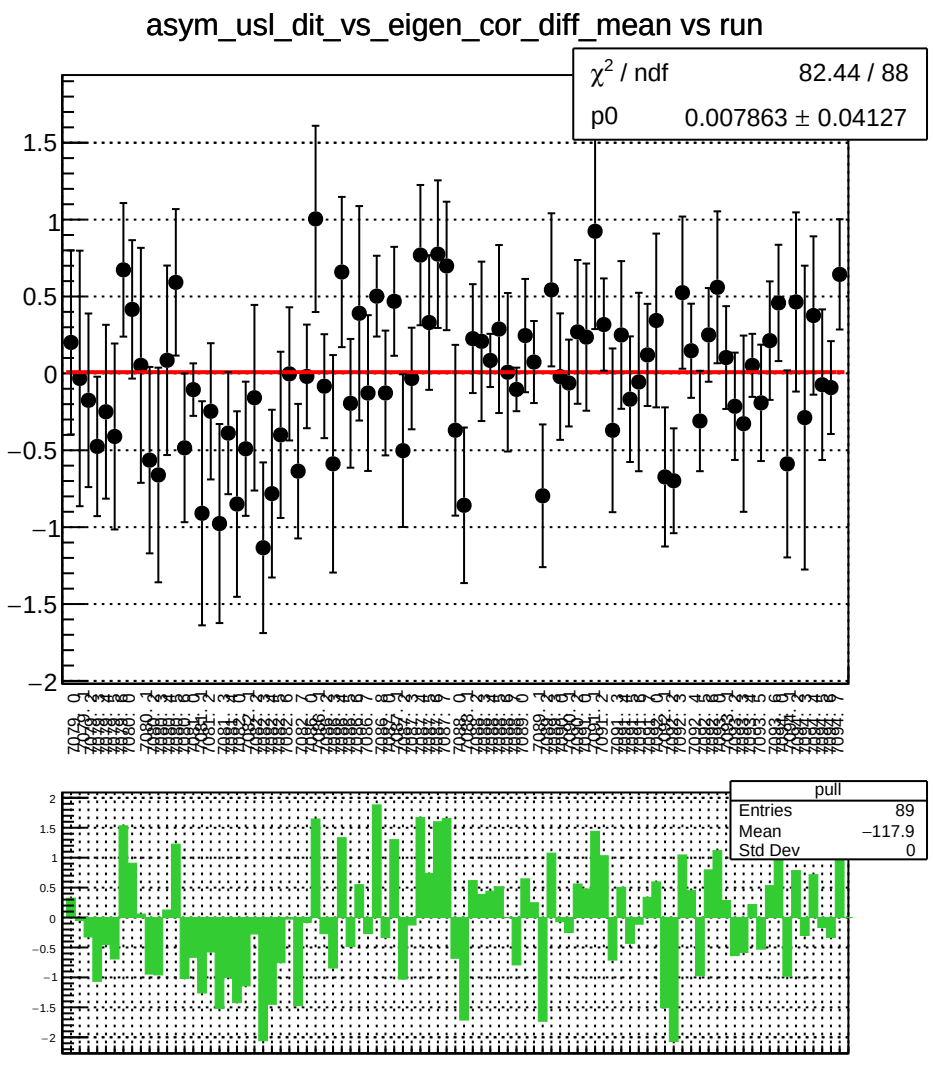

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.4 / 88
p0 −9.494e−15 ± 3.454e−14
pull
Entries 89
Mean −502.2
Std Dev 0
pull1D
Entries 89
Mean −0.009813
Std Dev 1.078

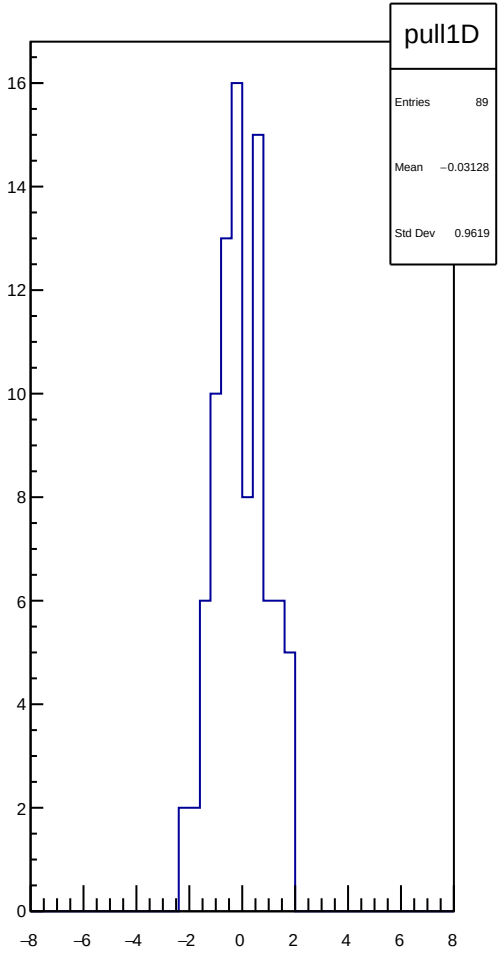

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.396e+05 / 88
p0 2.727e−11 ± 2.443e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

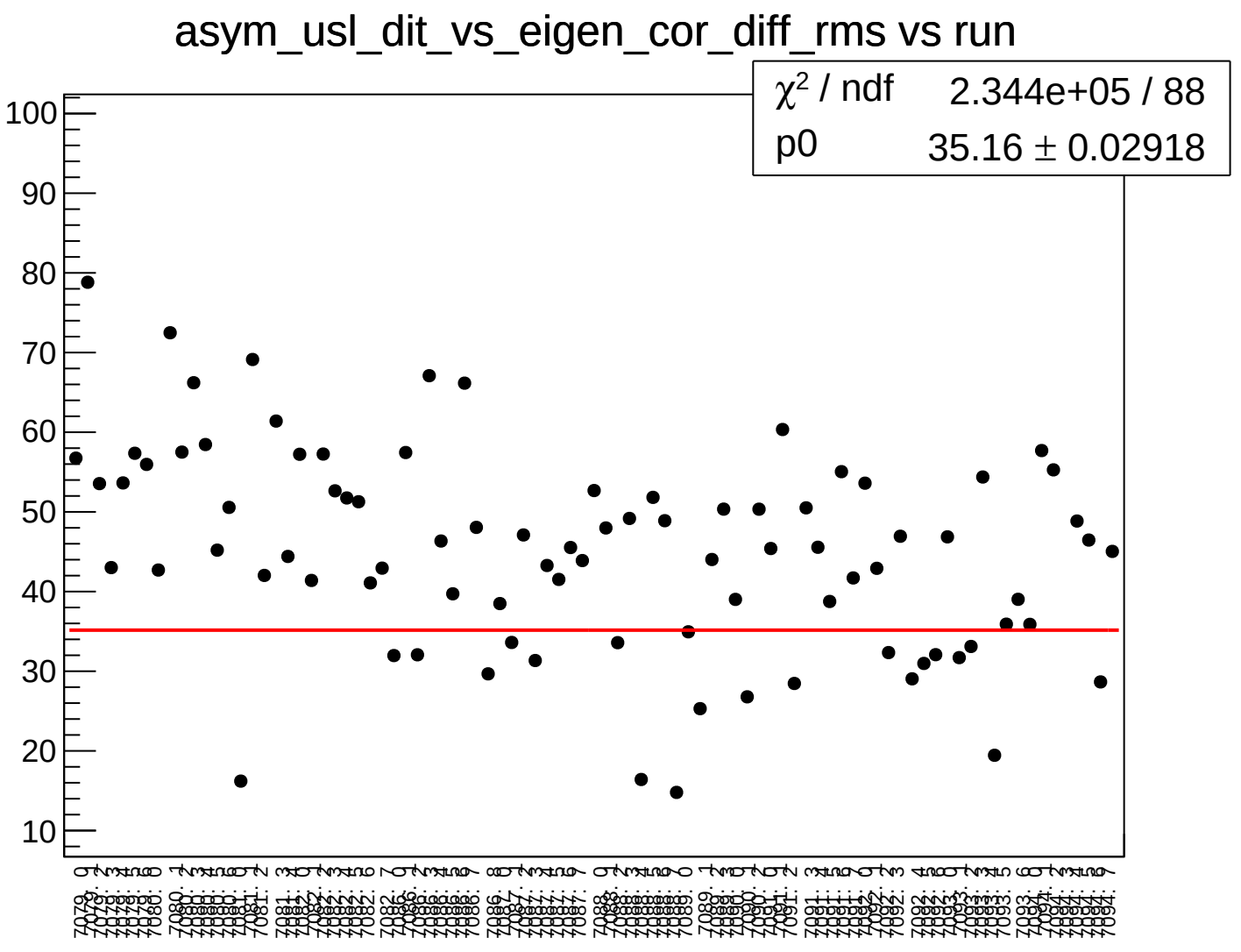

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 82.44 / 88
p0 0.007863 ± 0.04127
pull
Entries 89
Mean −117.9
Std Dev 0

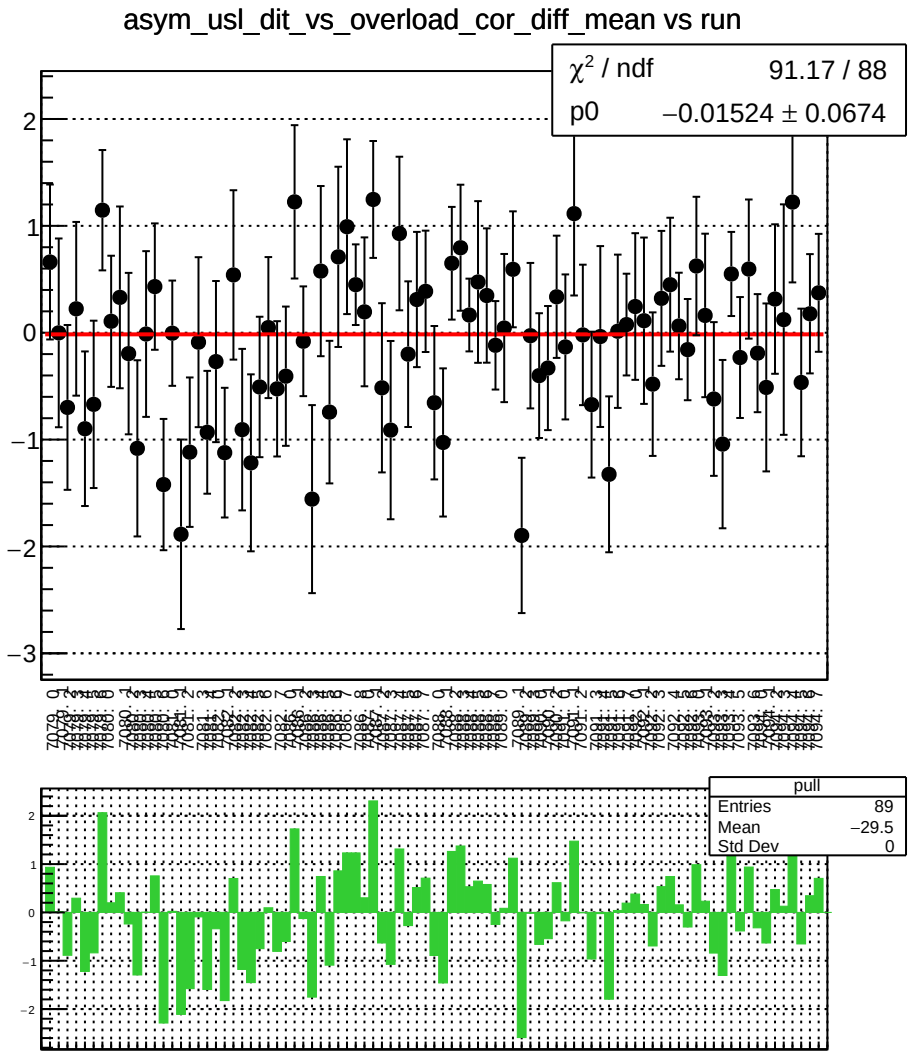

pull1D
Entries 89
Mean −0.03128
Std Dev 0.9619

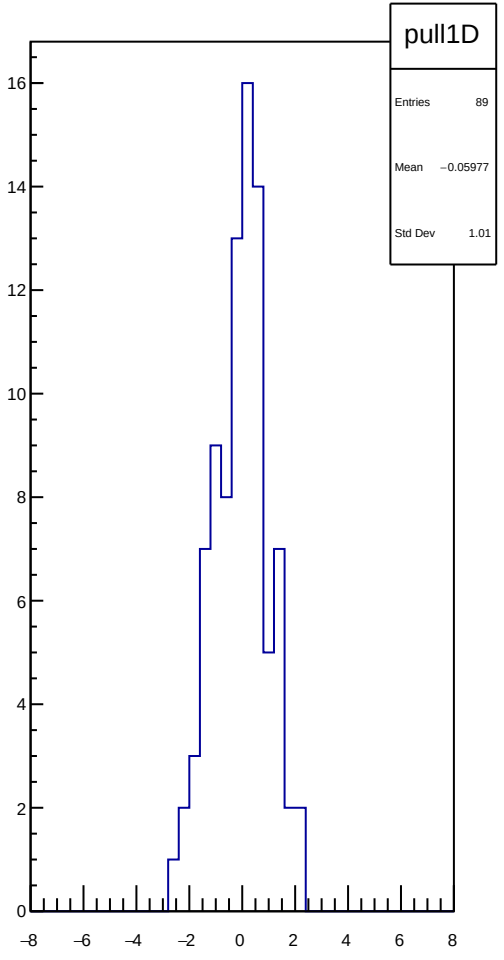

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 2.344e+05 / 88
p0 35.16 ± 0.02918
100
90
80
70
60
50
40
30
20
10

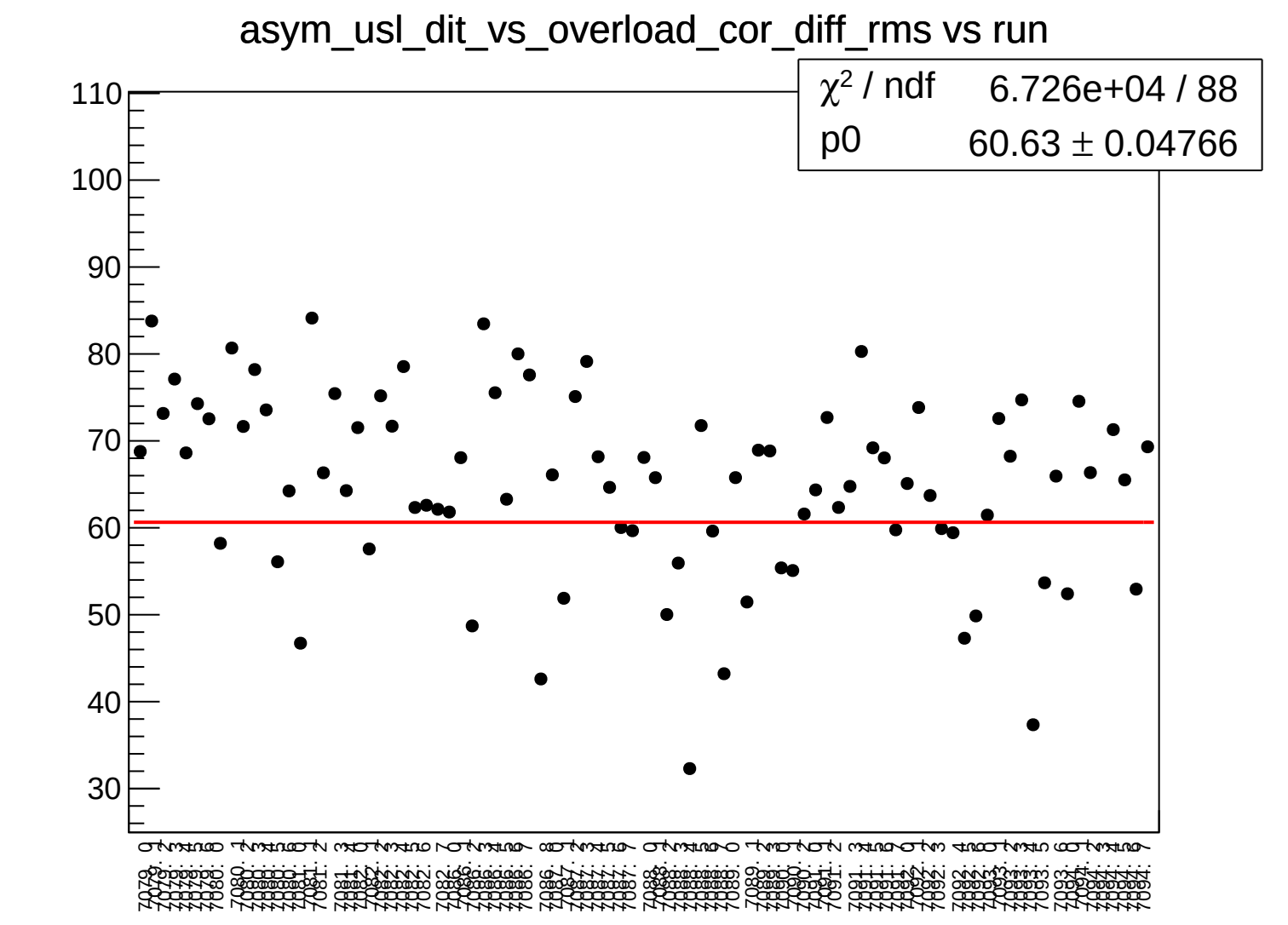

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.44 / 88
p0 0.007863 ± 0.04127
pull
Entries 89
Mean −117.9
Std Dev 0

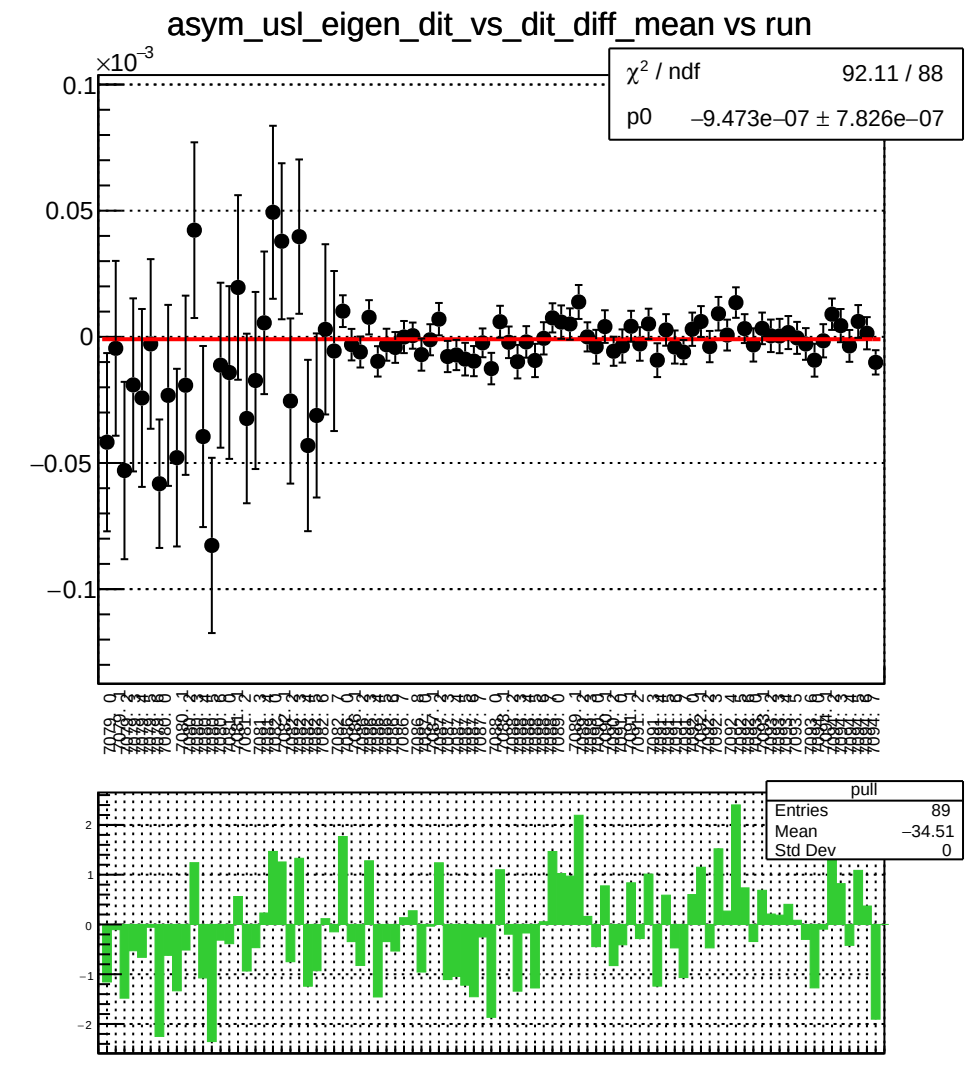

pull1D
Entries 89
Mean −0.03128
Std Dev 0.9619

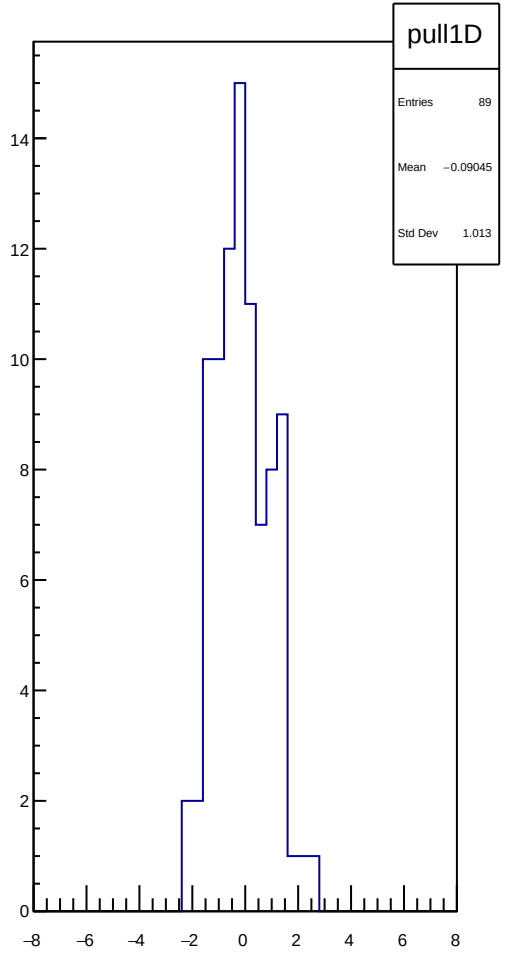

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.344e+05 / 88
p0 35.16 ± 0.02918
100
90
80
70
60
50
40
30
20
10

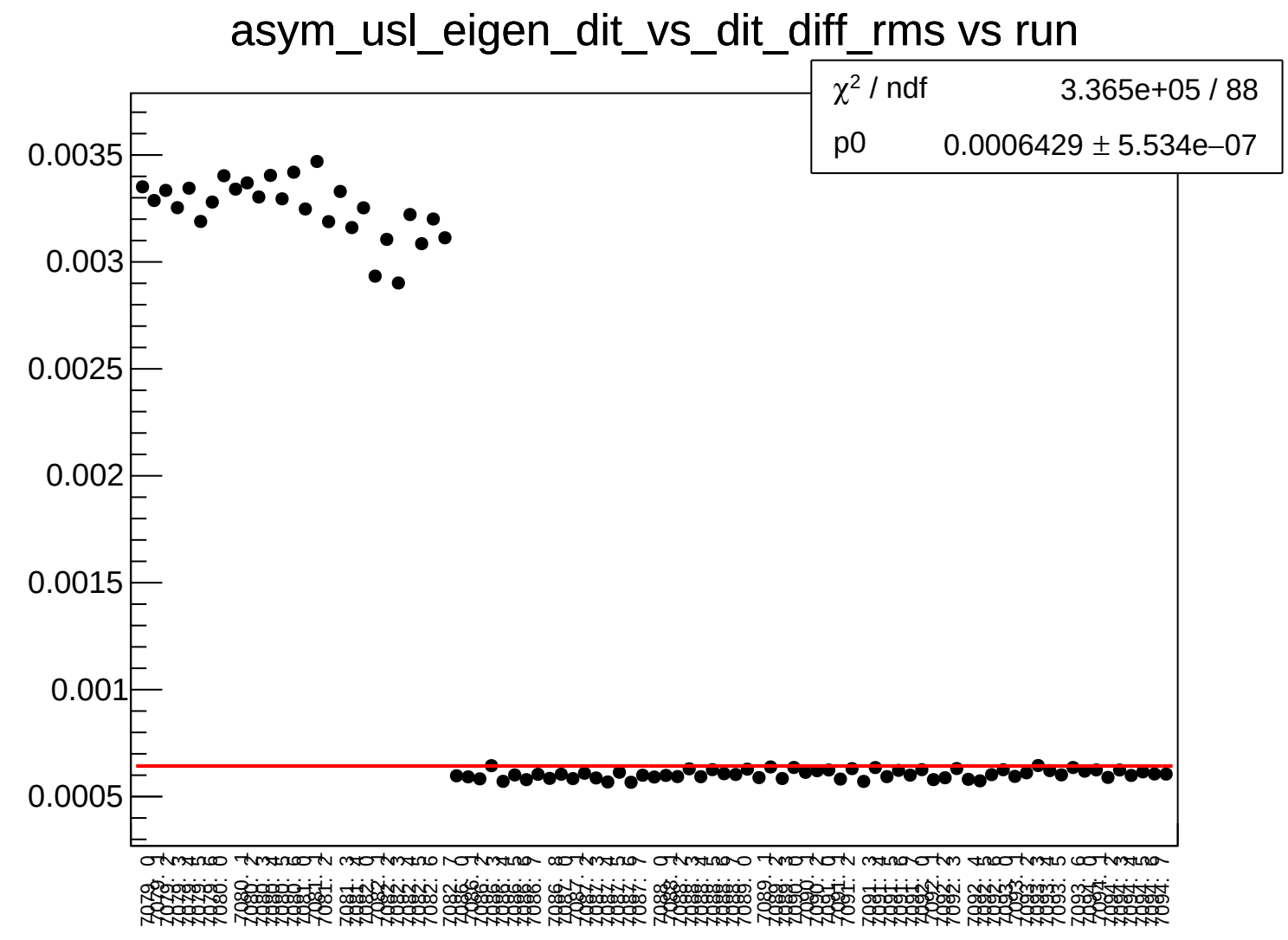

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 91.17 / 88
p0 −0.01524 ± 0.0674
pull
Entries 89
Mean −29.5
Std Dev 0

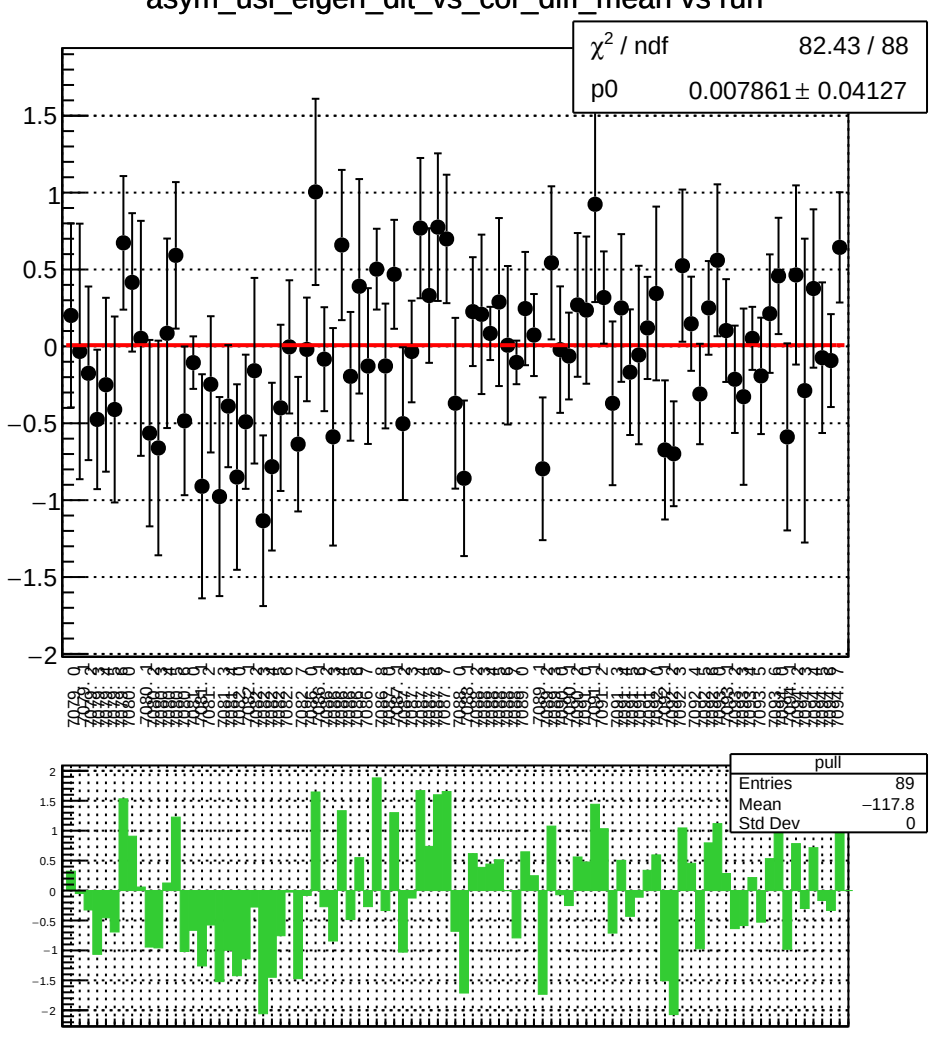

pull1D
Entries 89
Mean −0.05977
Std Dev 1.01

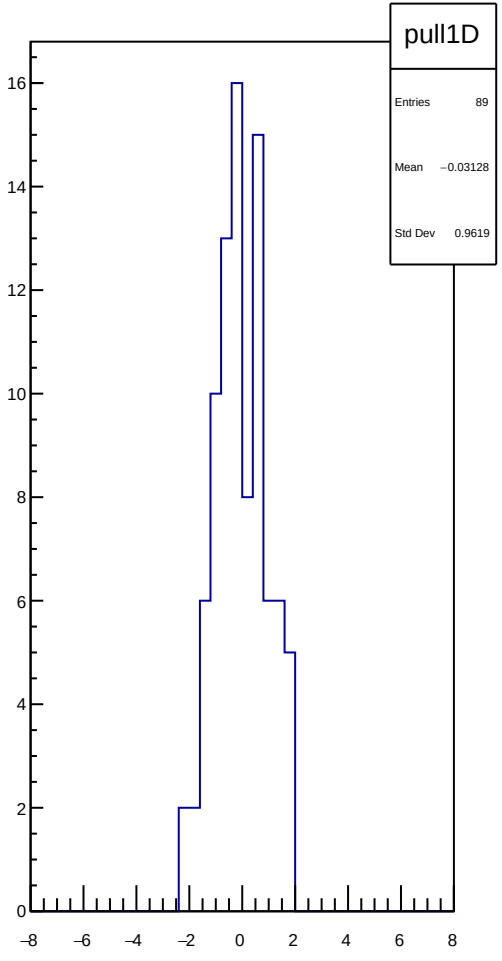

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 6.726e+04 / 88
p0 60.63 ± 0.04766
110
100
90
80
70
60
50
40
30

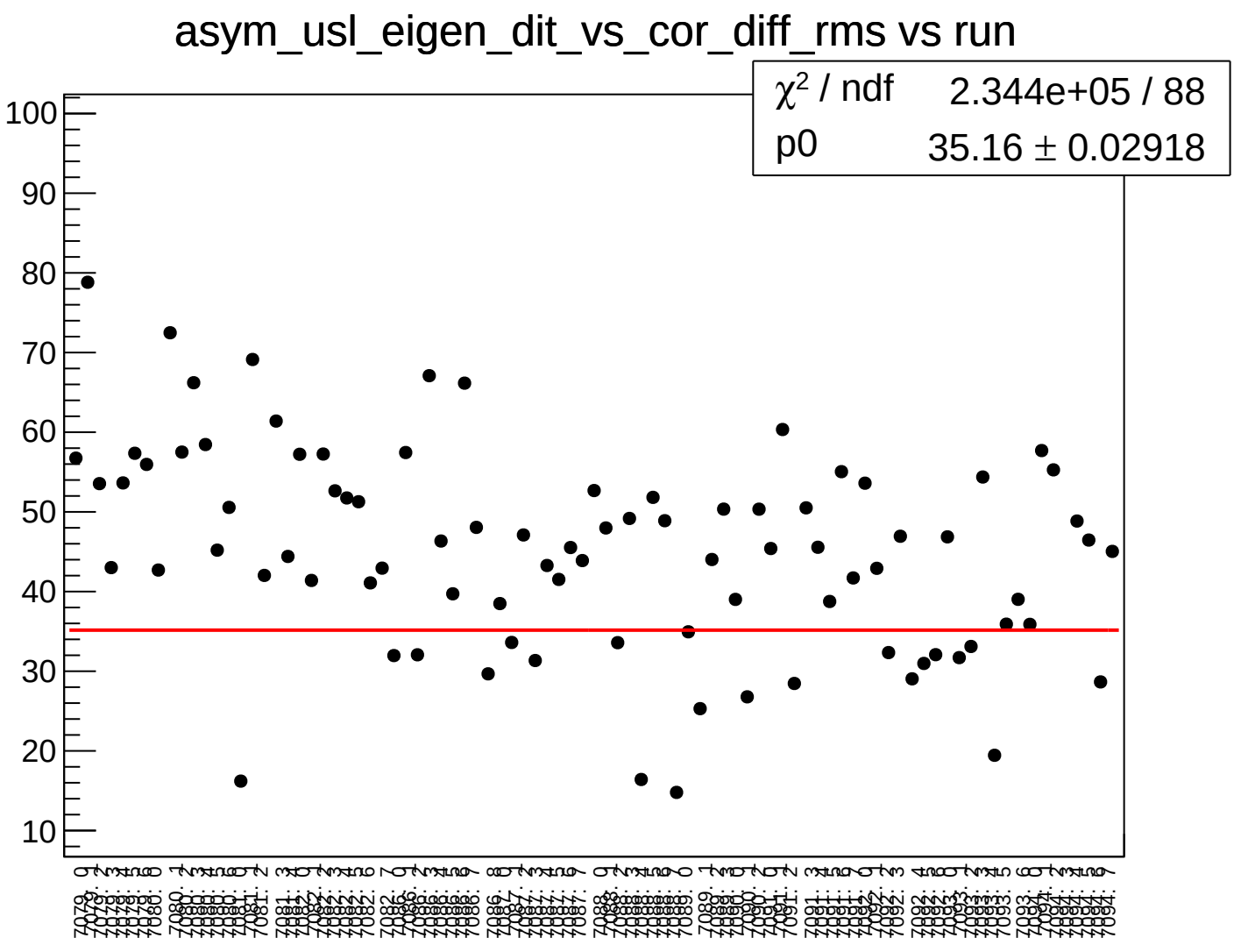

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.11 / 88
p0 −9.473e−07 ± 7.826e−07
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −34.51
Std Dev 0
2
1
0
−1
−2

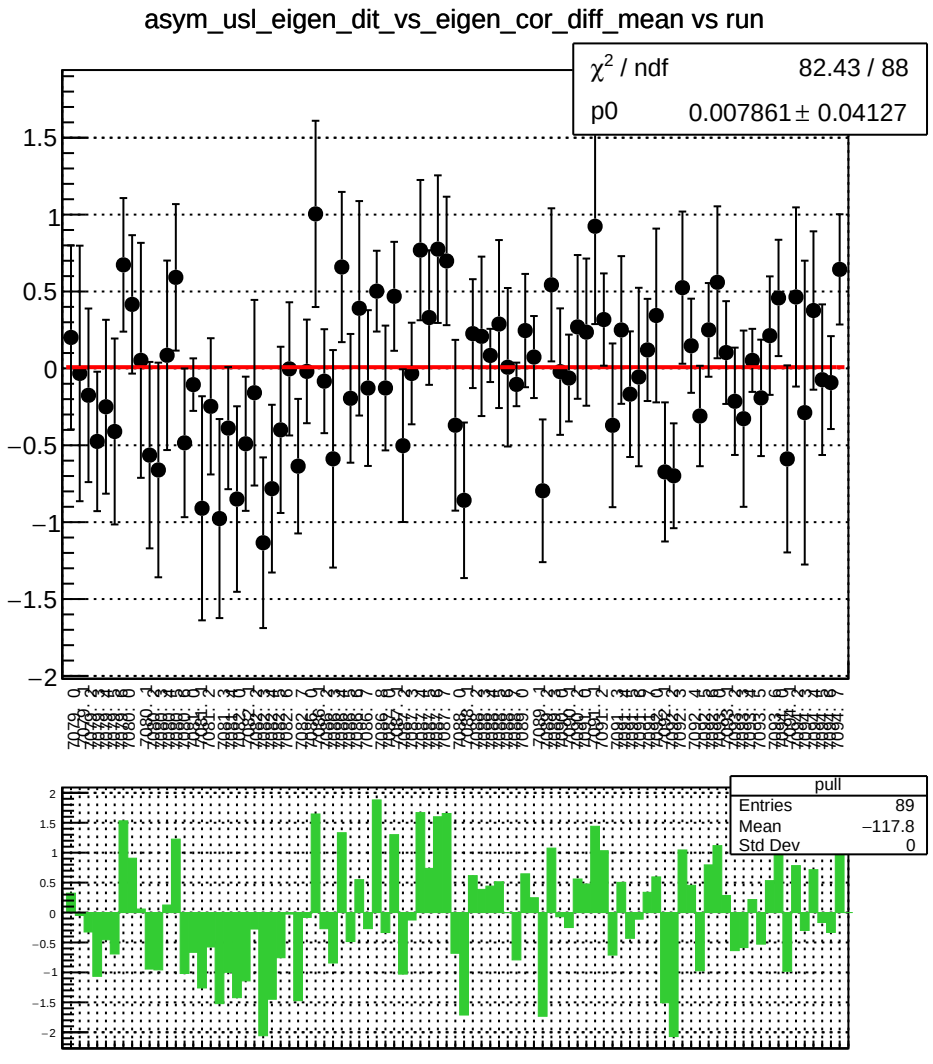

pull1D
Entries 89
Mean −0.09045
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

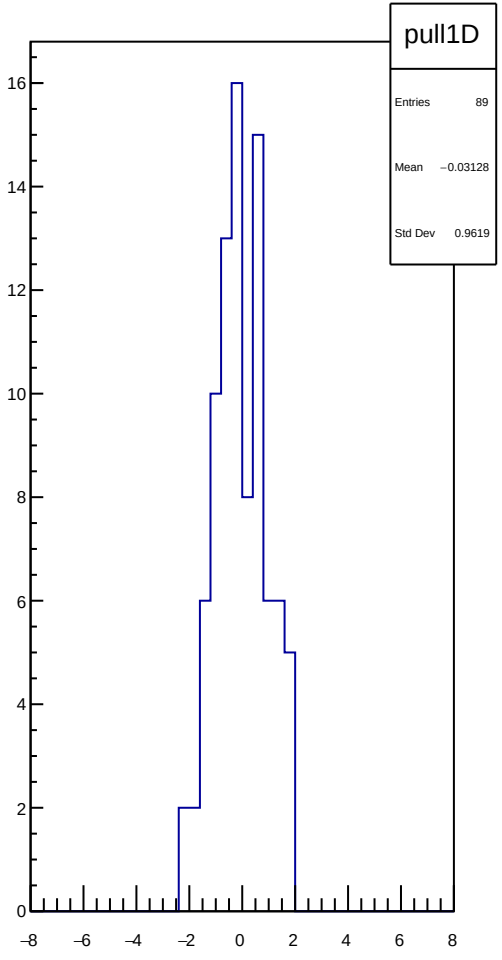

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.365e+05 / 88
p0 0.0006429 ± 5.534e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

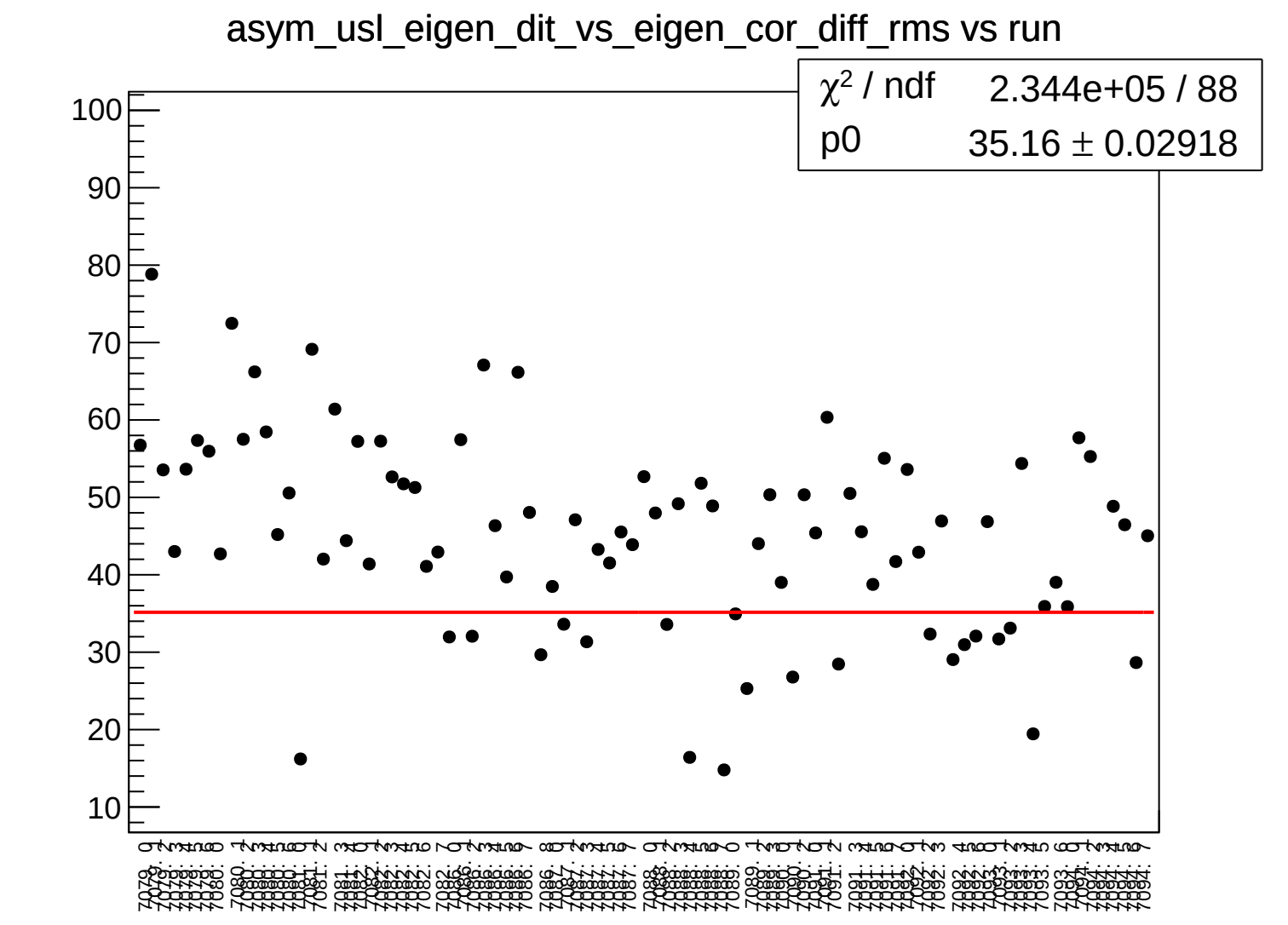

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.43 / 88
p0 0.007861 ± 0.04127
pull
Entries 89
Mean −117.8
Std Dev 0

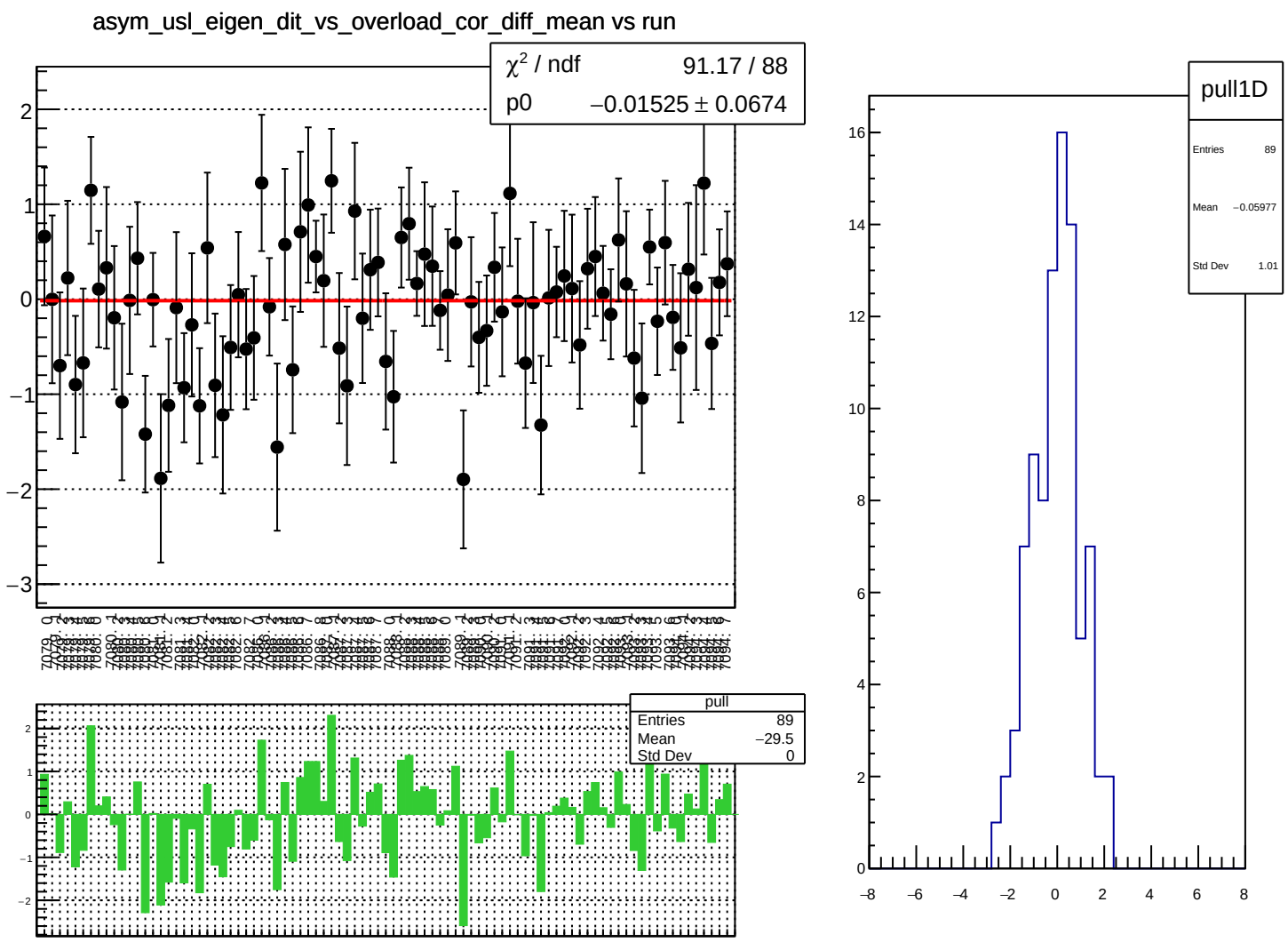

pull1D
Entries 89
Mean −0.03128
Std Dev 0.9619

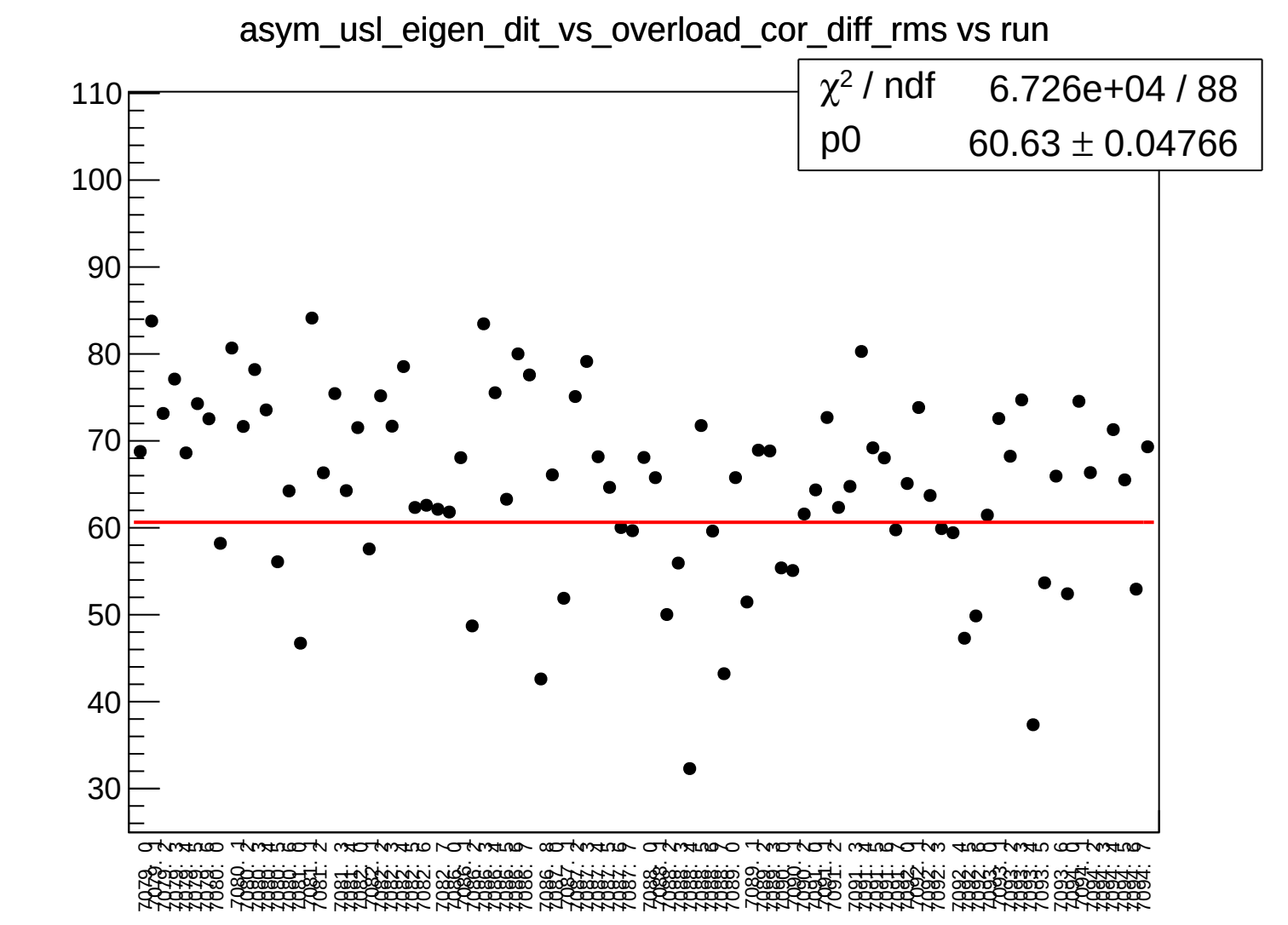

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.344e+05 / 88
p0 35.16 ± 0.02918
100
90
80
70
60
50
40
30
20
10

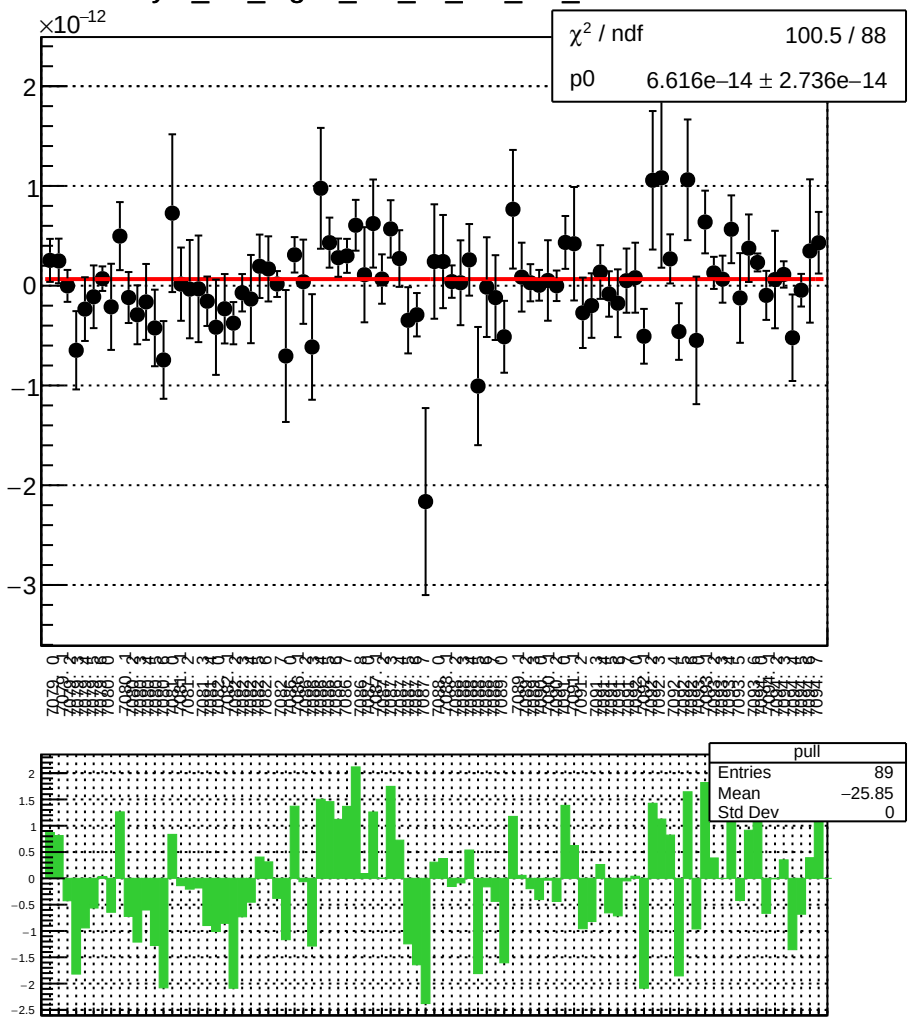

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.43 / 88
p0 0.007861 ± 0.04127
pull
Entries 89
Mean −117.8
Std Dev 0

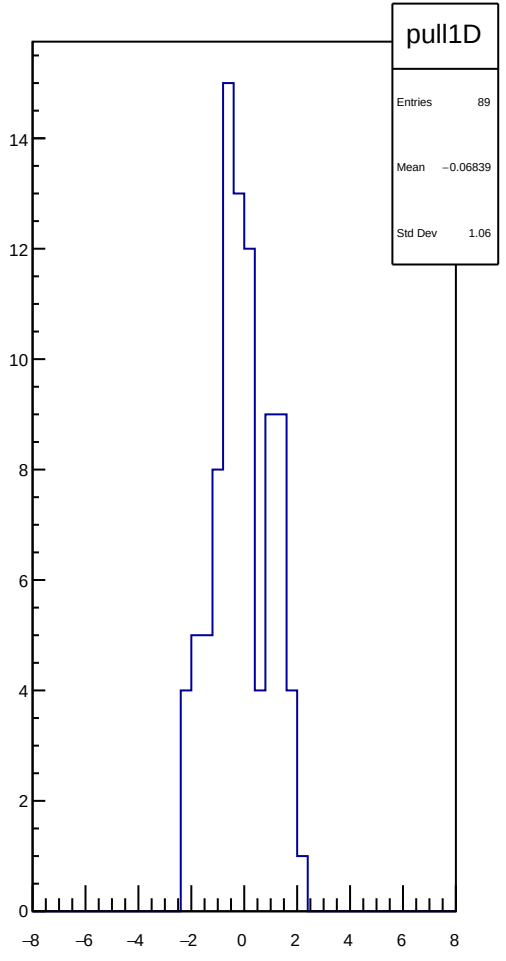

pull1D
Entries 89
Mean −0.03128
Std Dev 0.9619

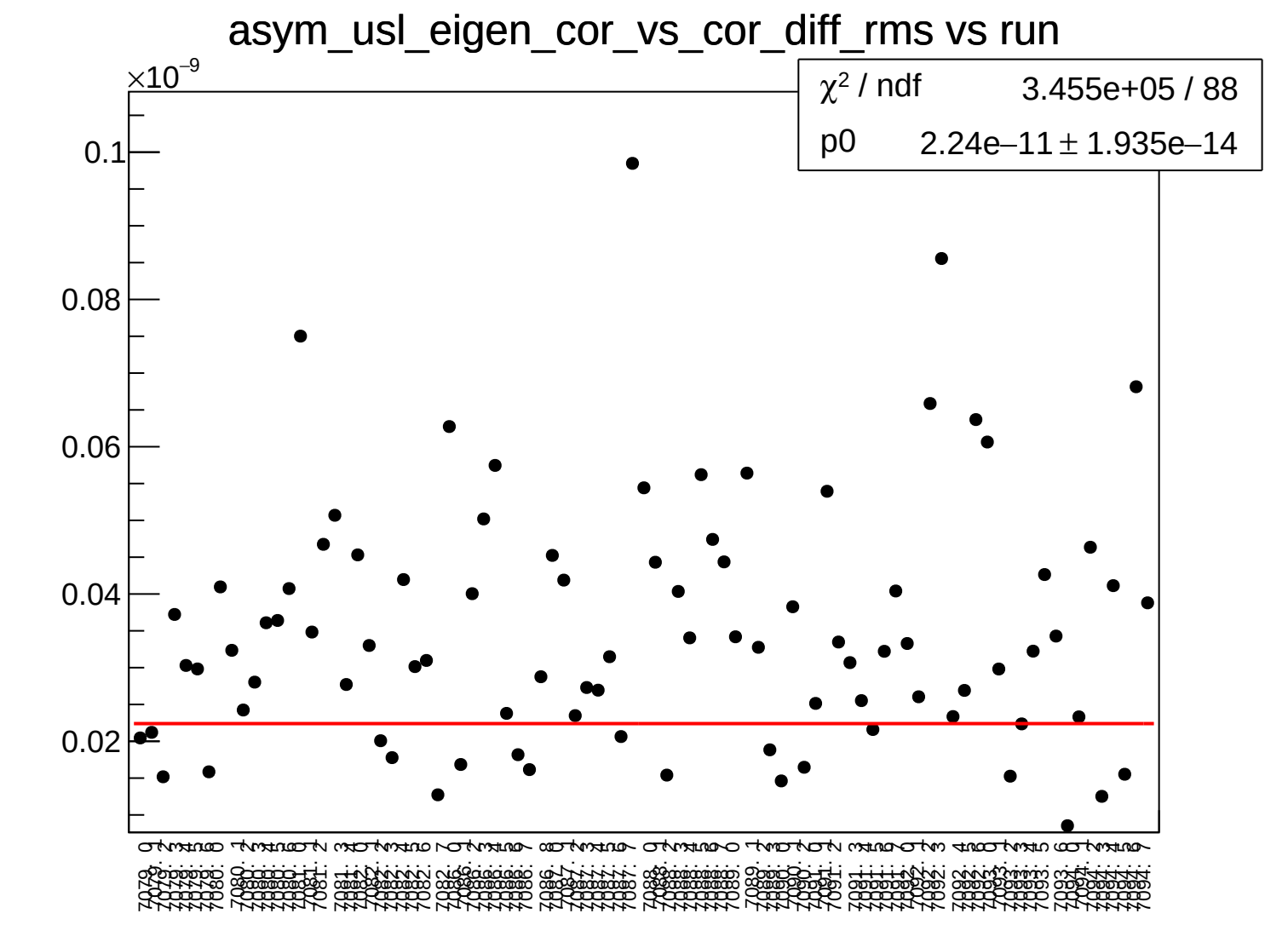

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.344e+05 / 88
p0 35.16 ± 0.02918
100
90
80
70
60
50
40
30
20
10

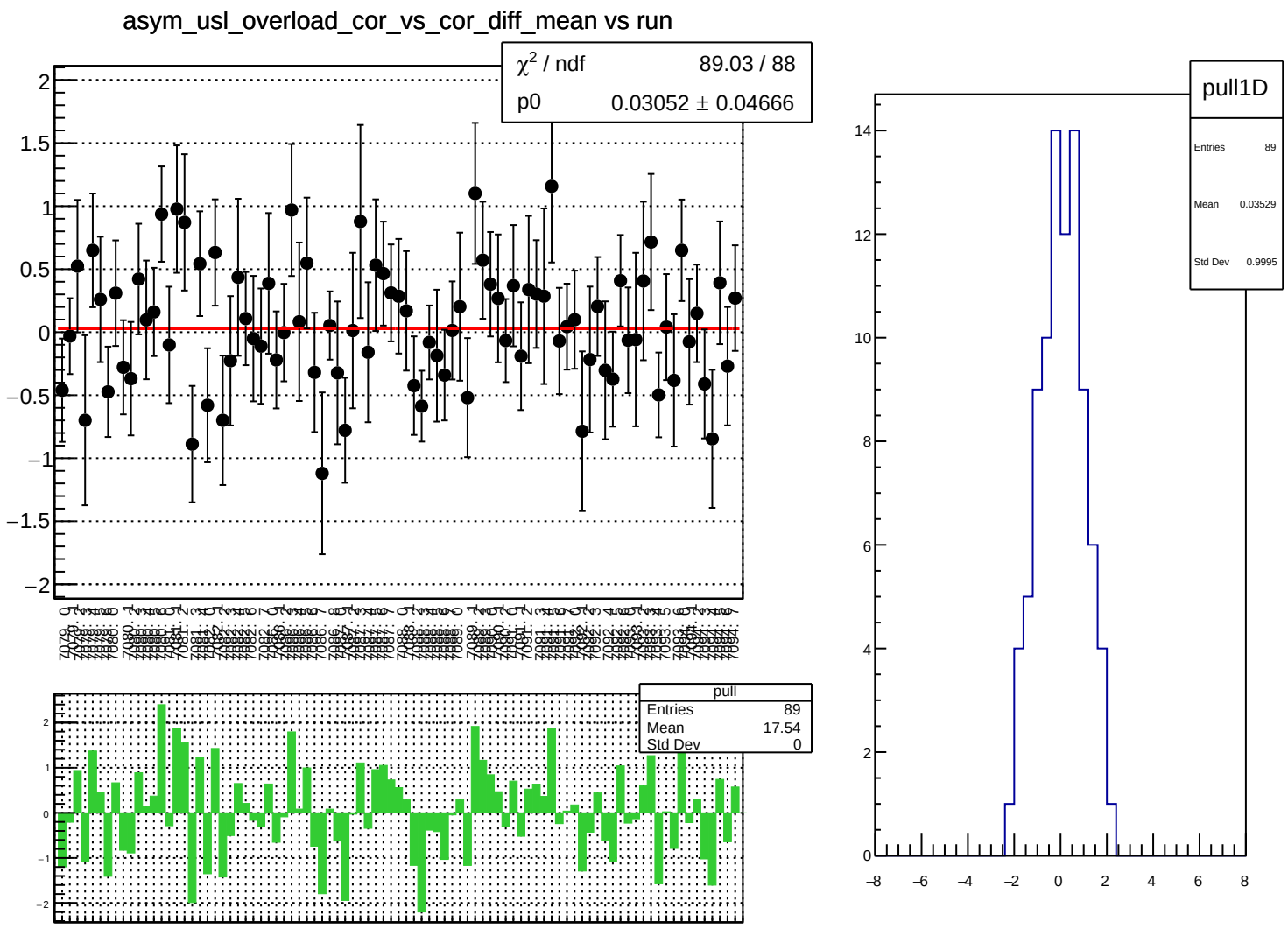

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 91.17 / 88
p0 −0.01525 ± 0.0674
pull
Entries 89
Mean −29.5
Std Dev 0
pull1D
Entries 89
Mean −0.05977
Std Dev 1.01

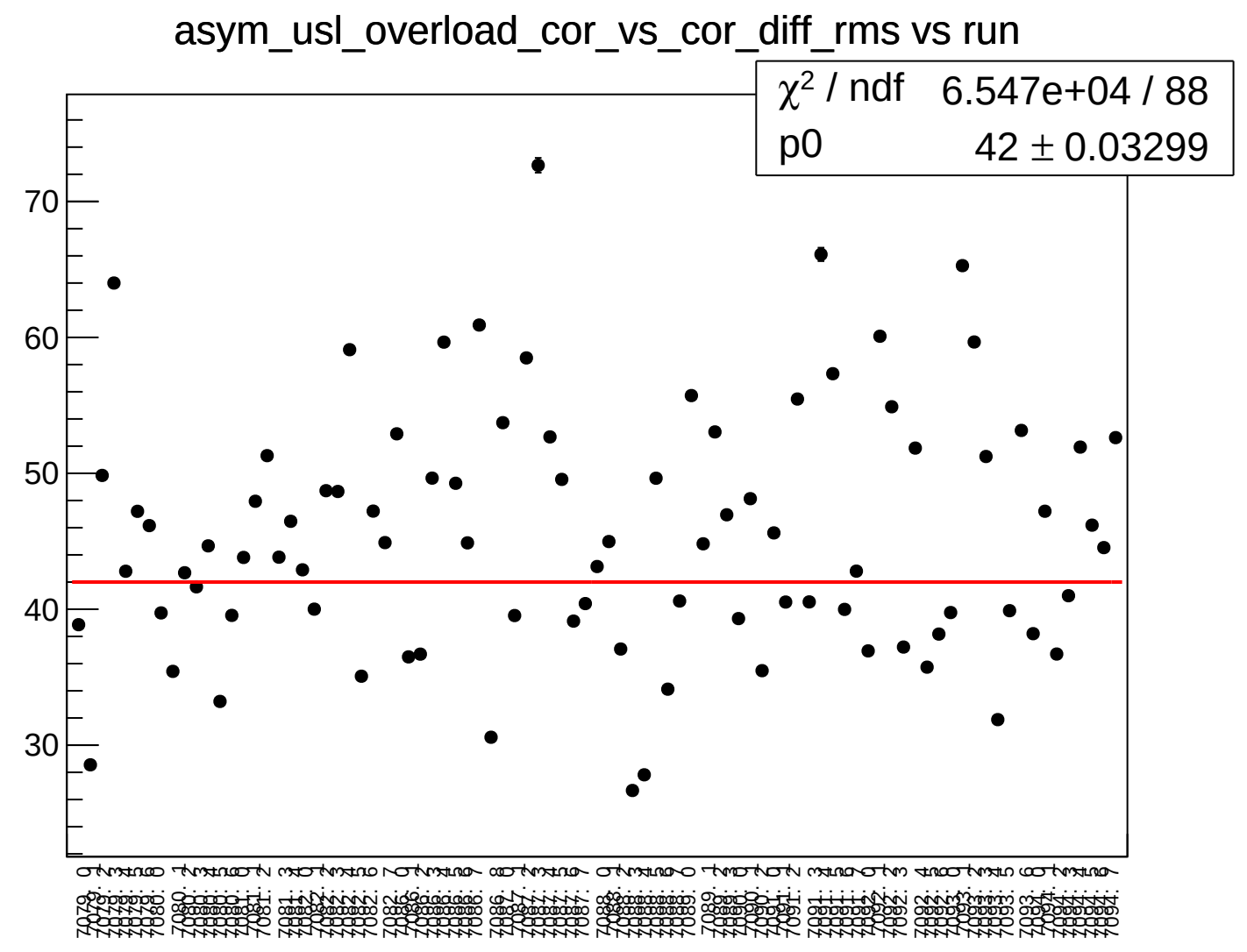

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.726e+04 / 88
p0 60.63 ± 0.04766
110
100
90
80
70
60
50
40
30

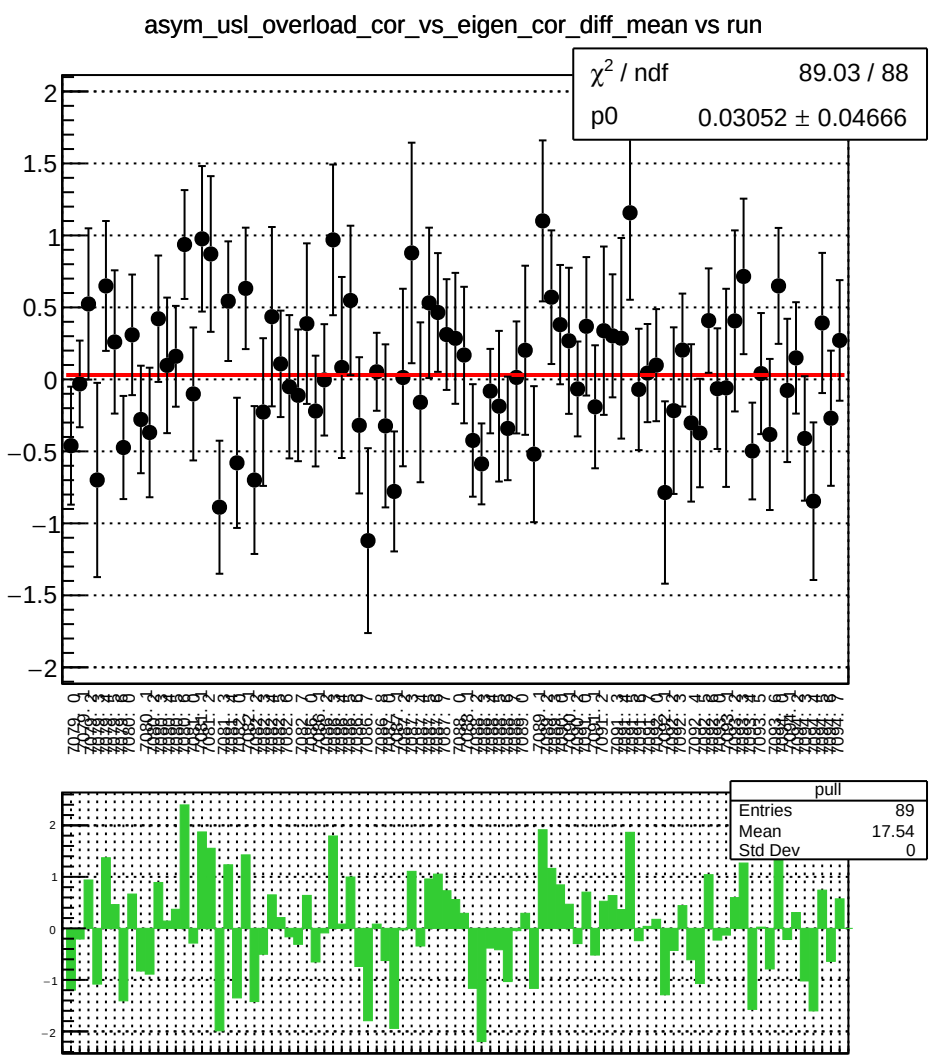

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.5 / 88
p0 6.616e−14 ± 2.736e−14
pull
Entries 89
Mean −25.85
Std Dev 0

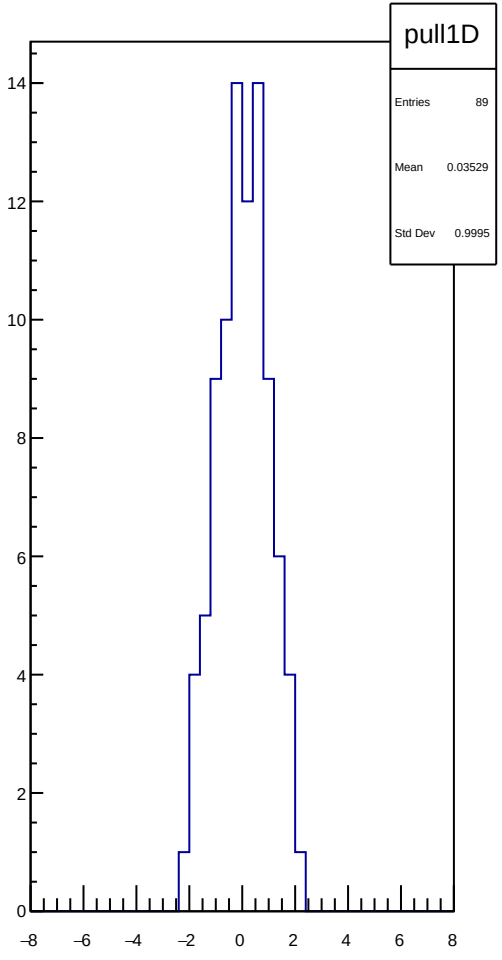

pull1D
Entries 89
Mean −0.06839
Std Dev 1.06

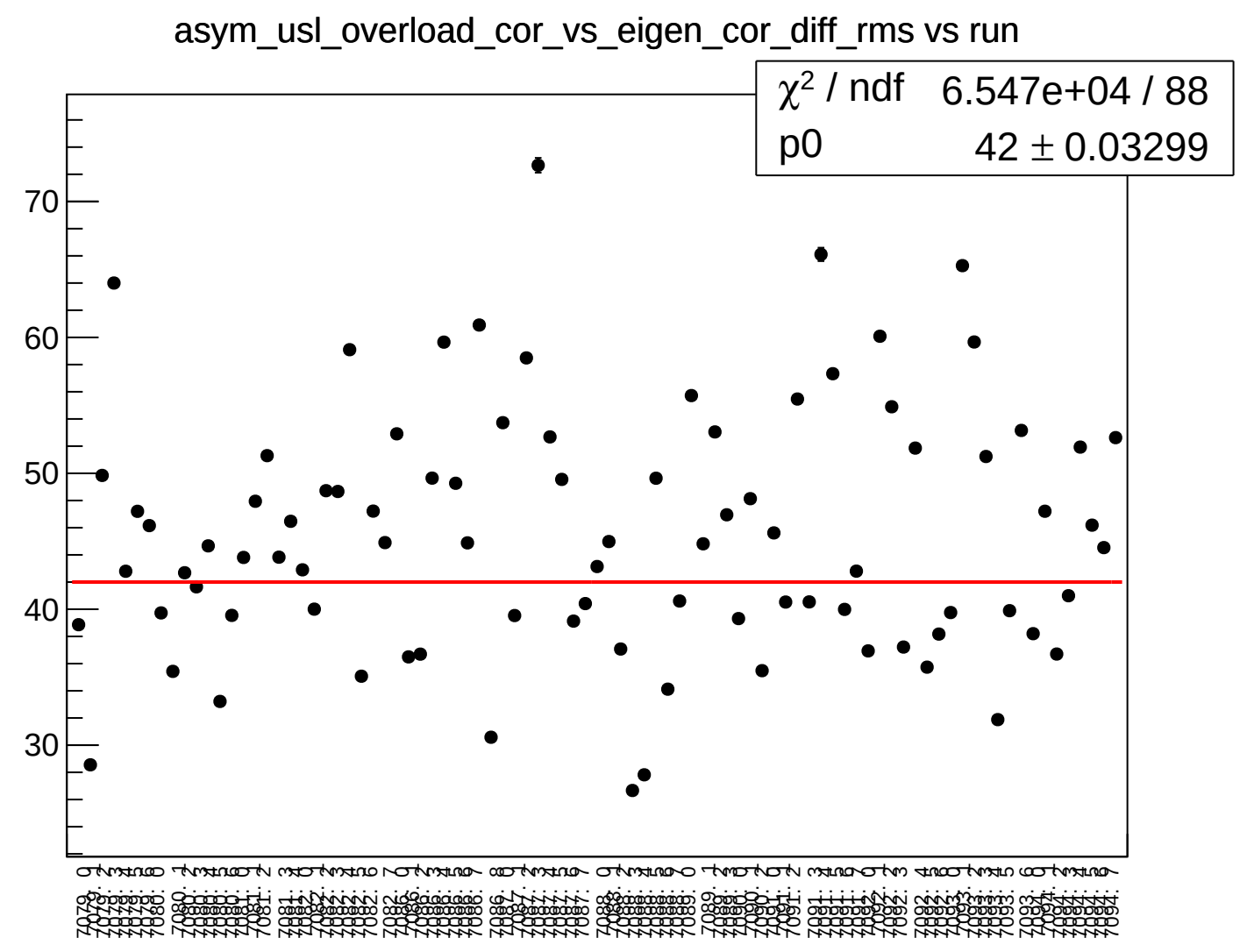

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.455e+05 / 88
p0 2.24e−11 ± 1.935e−14
0.1
0.08
0.06
0.04
0.02

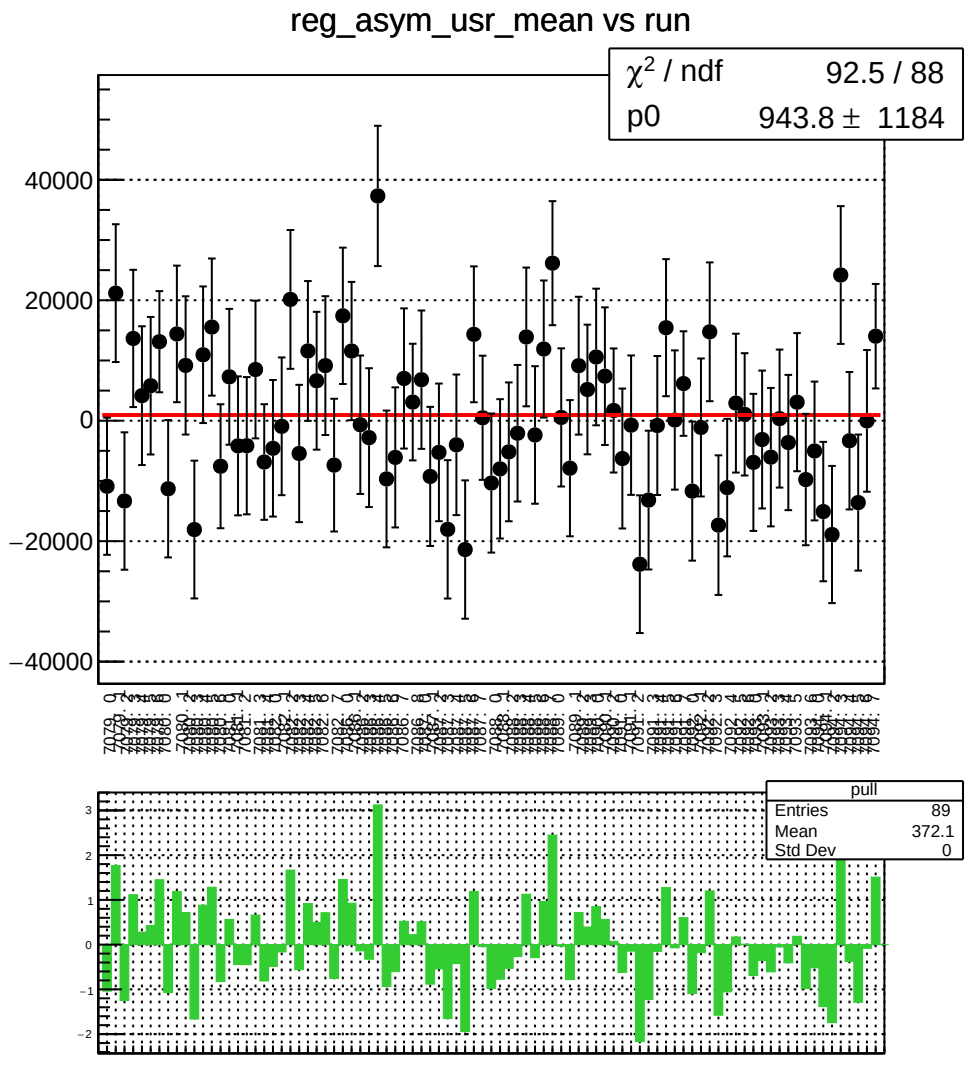

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 89.03 / 88
p0 0.03052 ± 0.04666
pull
Entries 89
Mean 17.54
Std Dev 0
pull1D
Entries 89
Mean 0.03529
Std Dev 0.9995

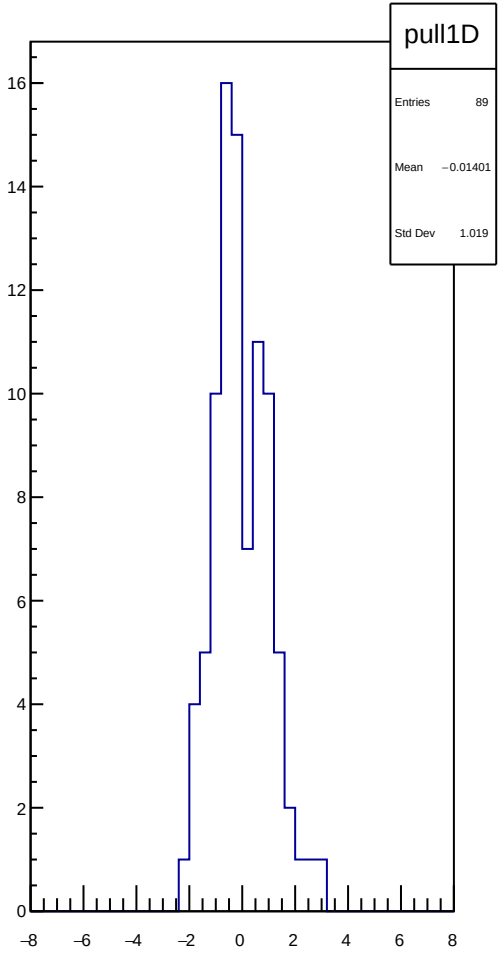

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 6.547e+04 / 88
p0 42 ± 0.03299
70
60
50
40
30

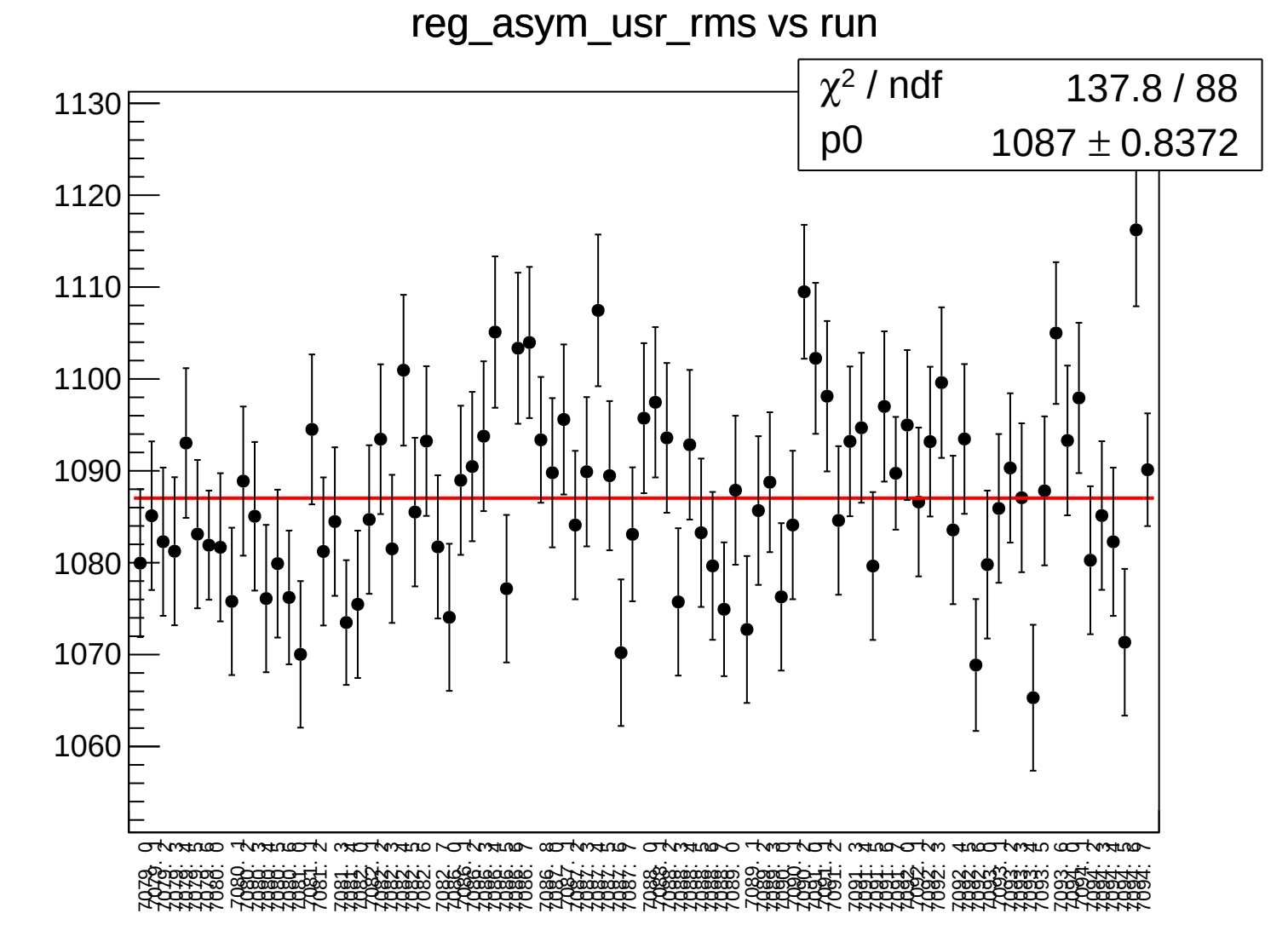

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.03 / 88
p0 0.03052 ± 0.04666
pull
Entries 89
Mean 17.54
Std Dev 0

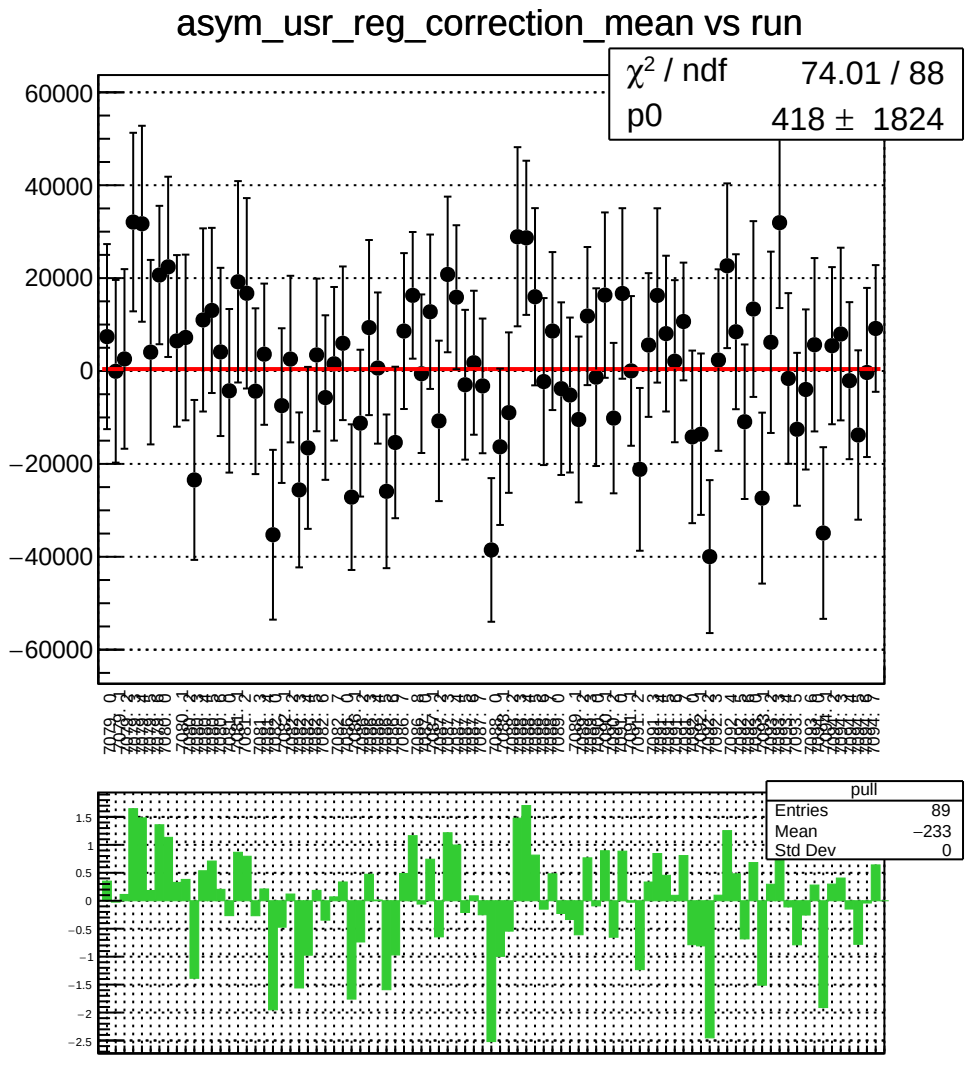

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9995

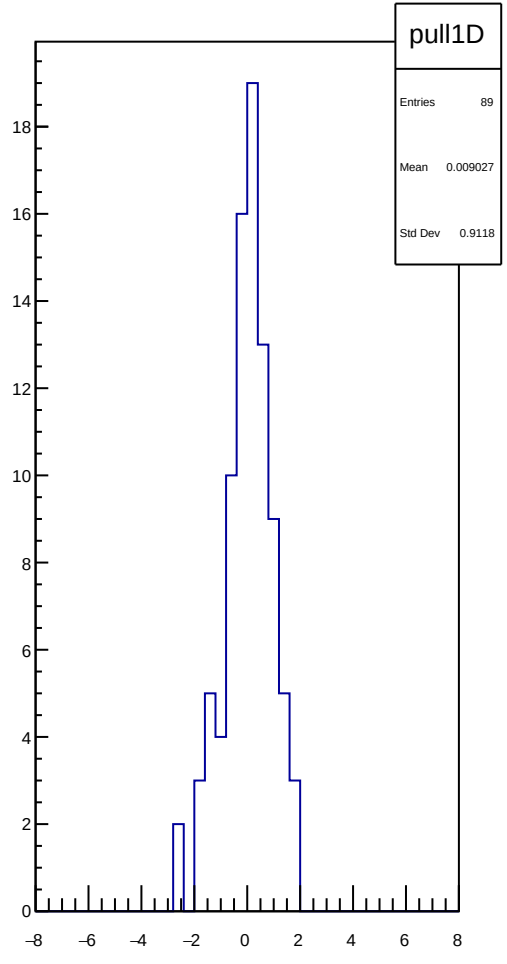

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.547e+04 / 88
p0 42 ± 0.03299
70
60
50
40
30

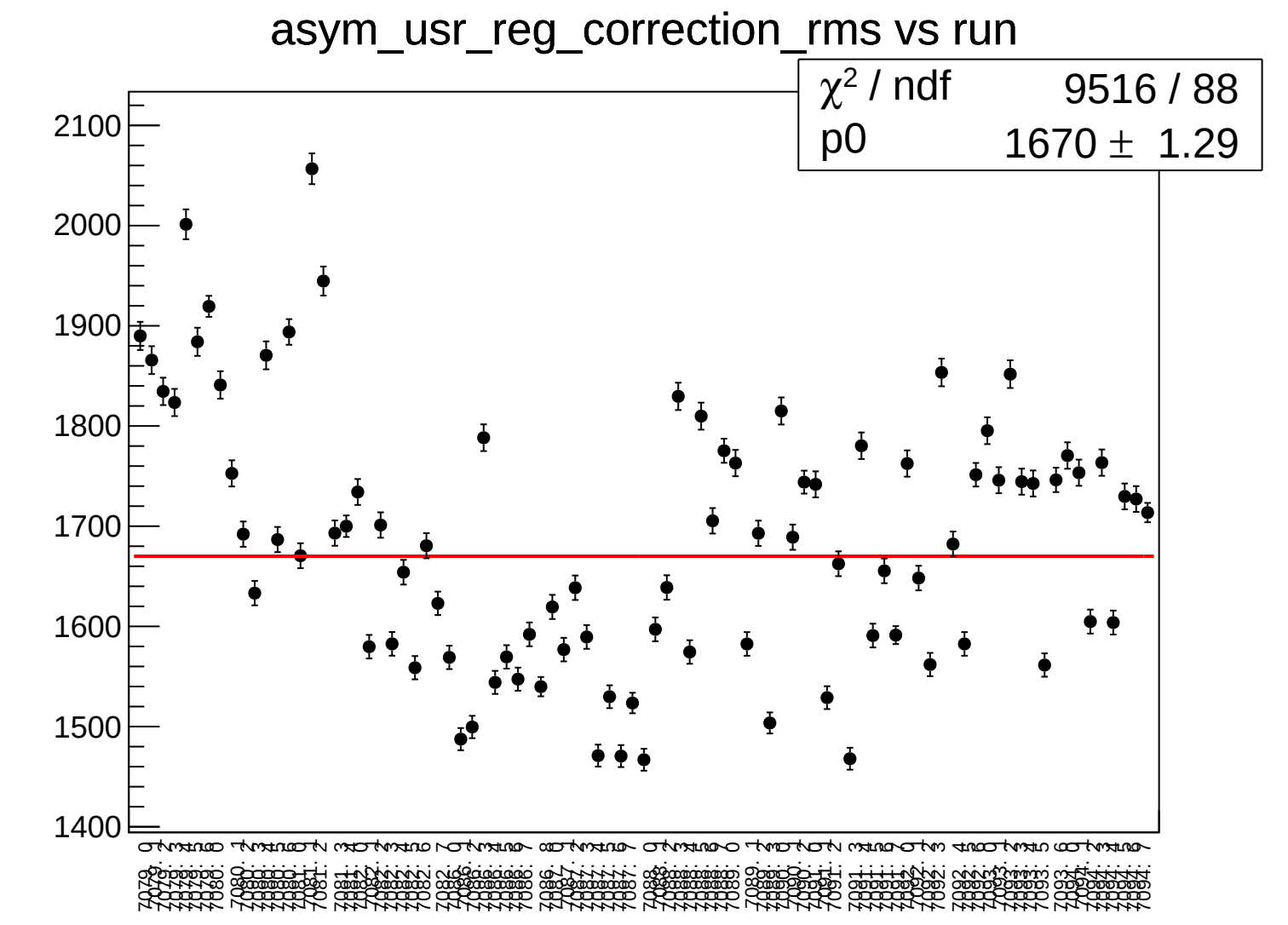

reg_asym_usr_mean vs run
χ² / ndf 92.5 / 88
p0 943.8 ± 1184
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 372.1
Std Dev 0
3
2
1
0
−1
−2

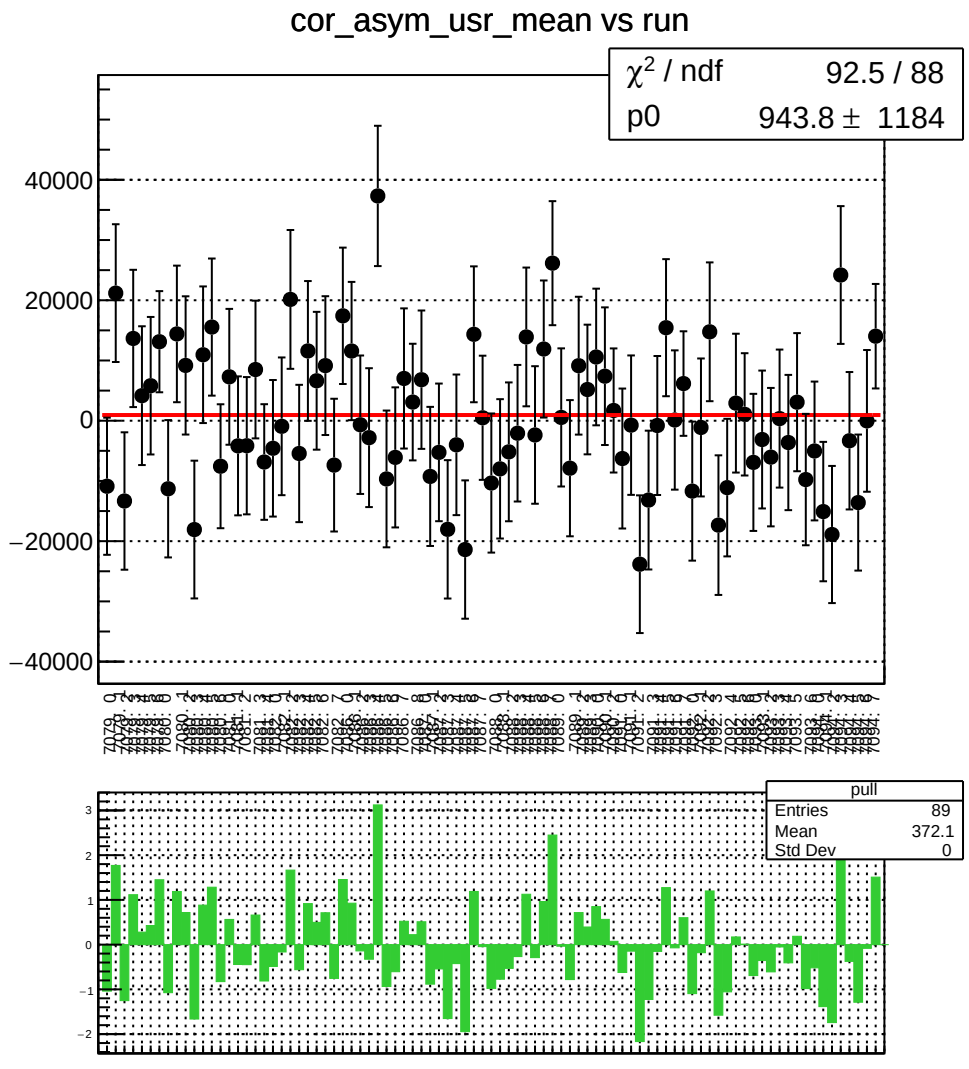

pull1D
Entries 89
Mean −0.01401
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

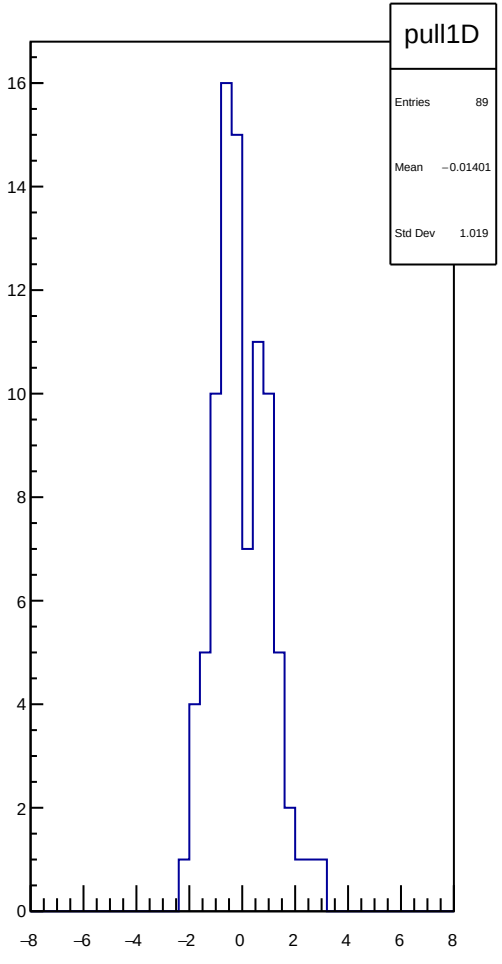

reg_asym_usr_rms vs run
χ² / ndf 137.8 / 88
p0 1087 ± 0.8372
1130
1120
1110
1100
1090
1080
1070
1060

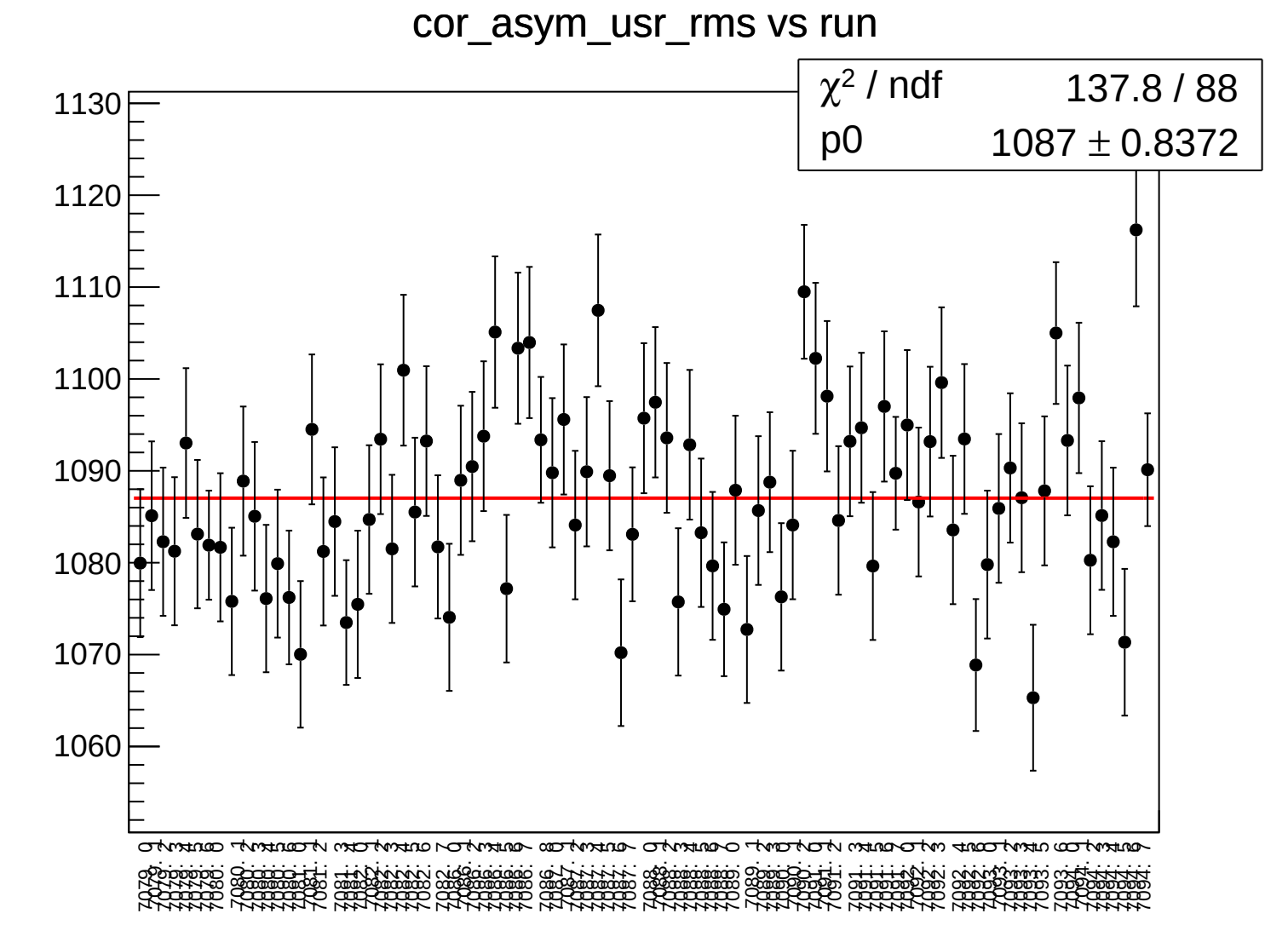

asym_usr_reg_correction_mean vs run
χ² / ndf 74.01 / 88
p0 418 ± 1824
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −233
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

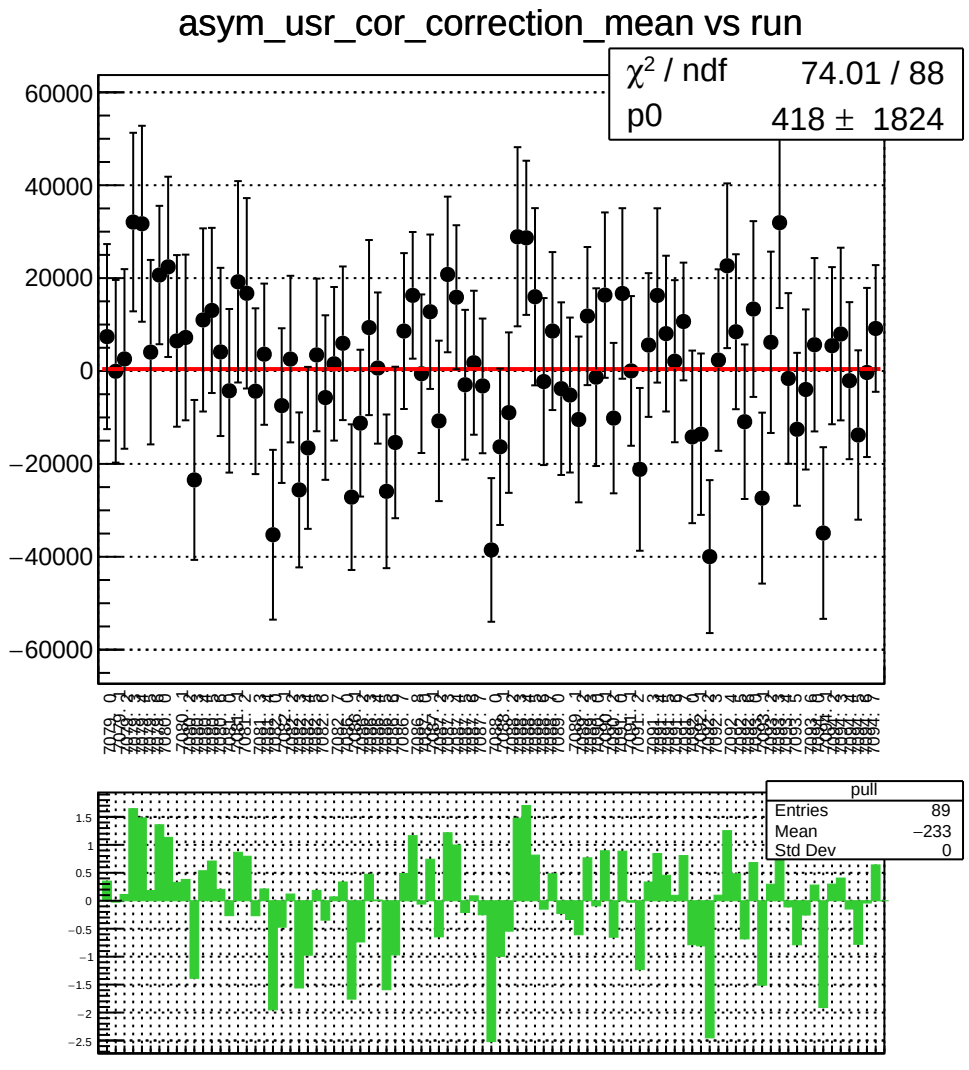

pull1D
Entries 89
Mean 0.009027
Std Dev 0.9118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

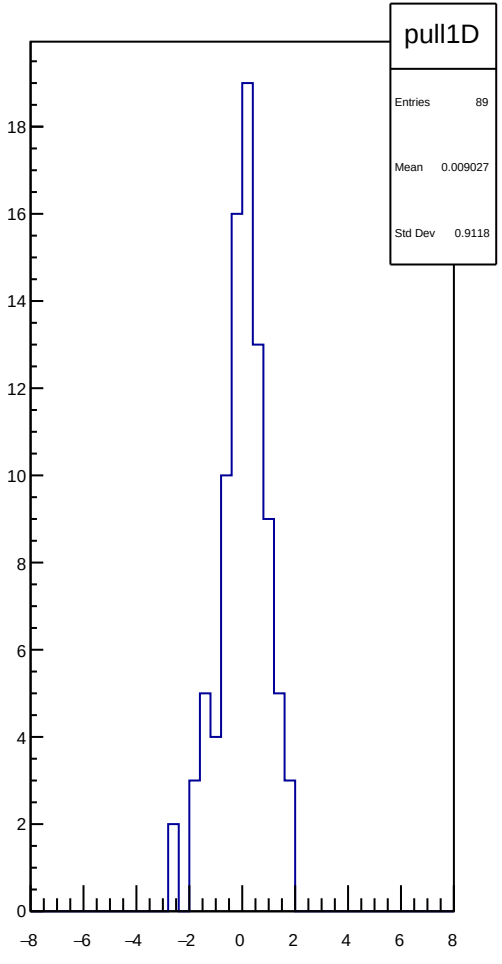

asym_usr_reg_correction_rms vs run
χ² / ndf 9516 / 88
p0 1670 ± 1.29
2100
2000
1900
1800
1700
1600
1500
1400

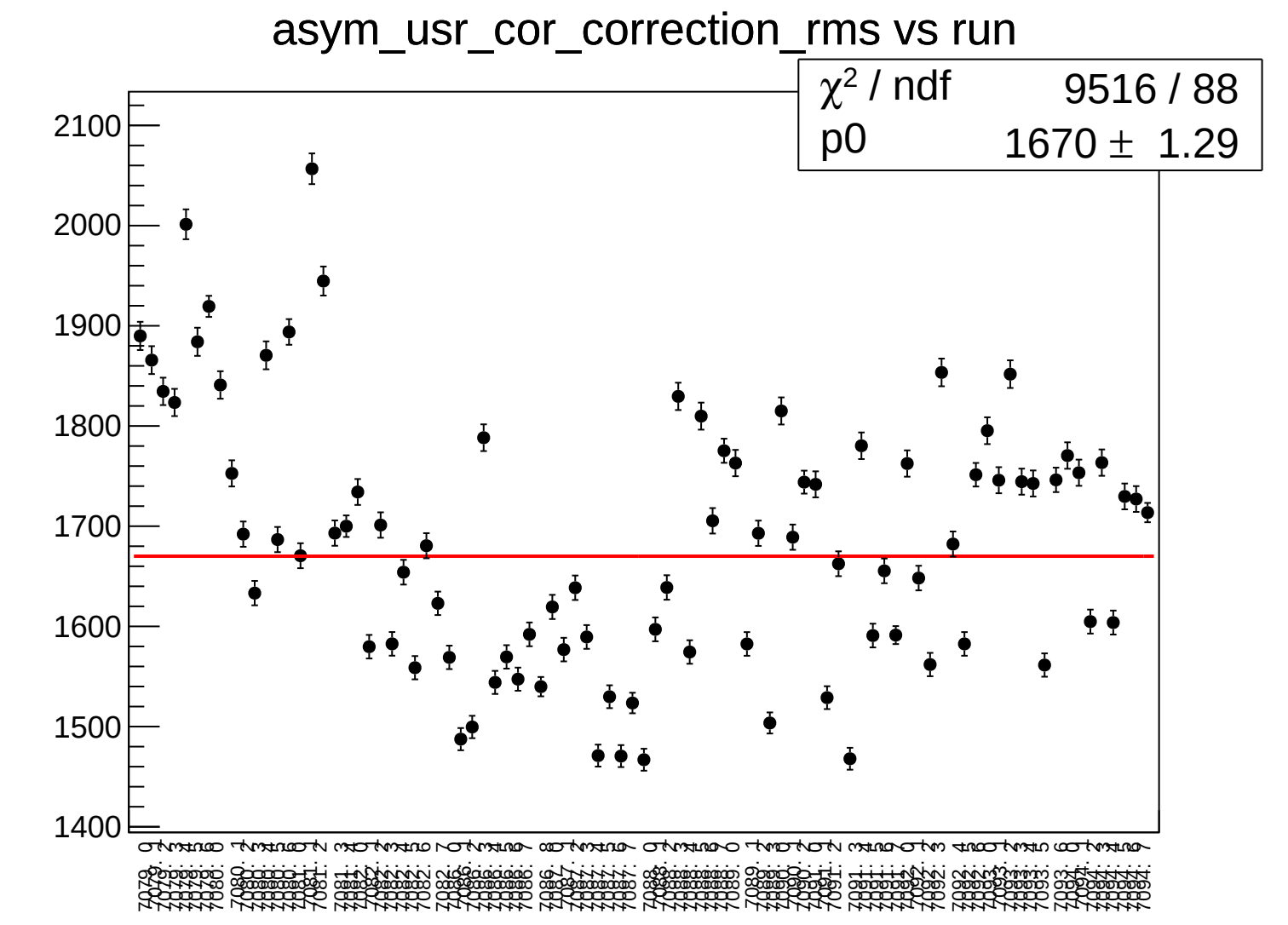

cor_asym_usr_mean vs run
χ² / ndf 92.5 / 88
p0 943.8 ± 1184
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 372.1
Std Dev 0
3
2
1
0
−1
−2

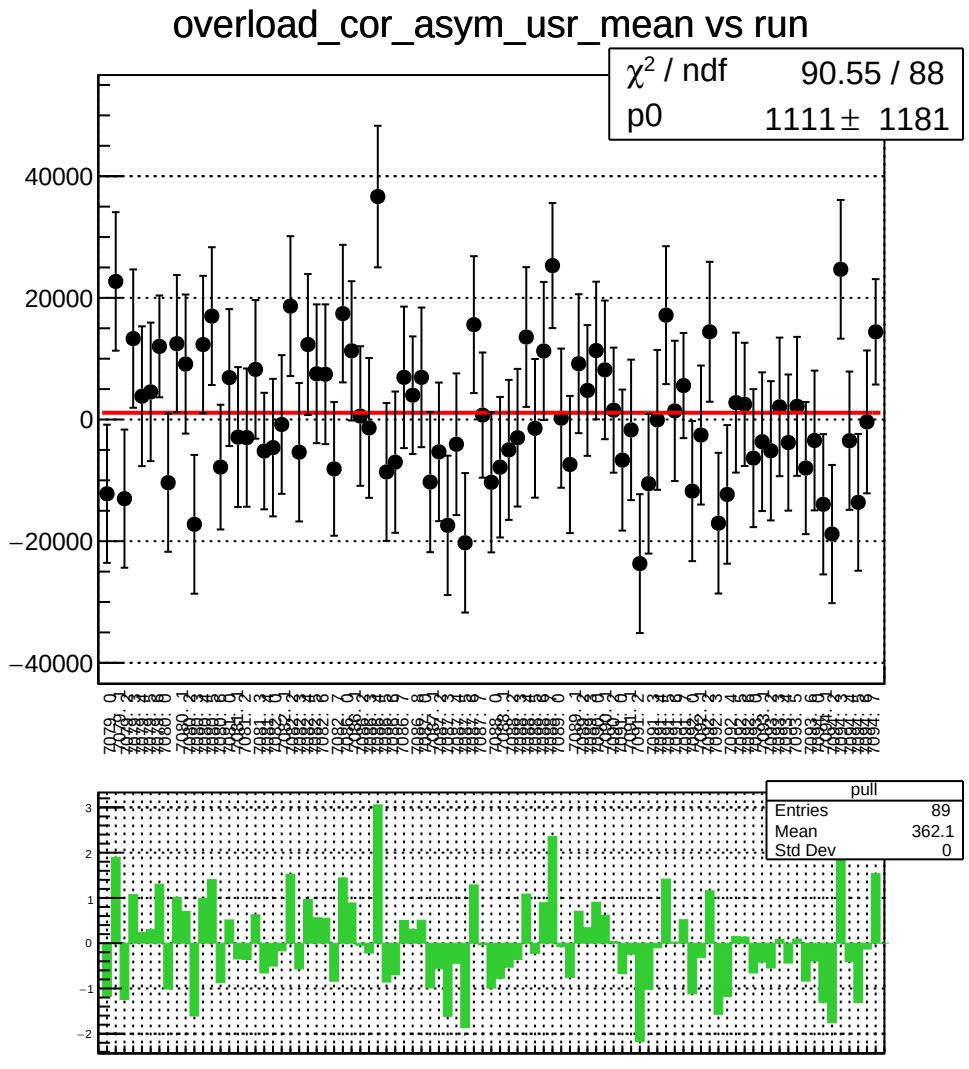

pull1D
Entries 89
Mean −0.01401
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

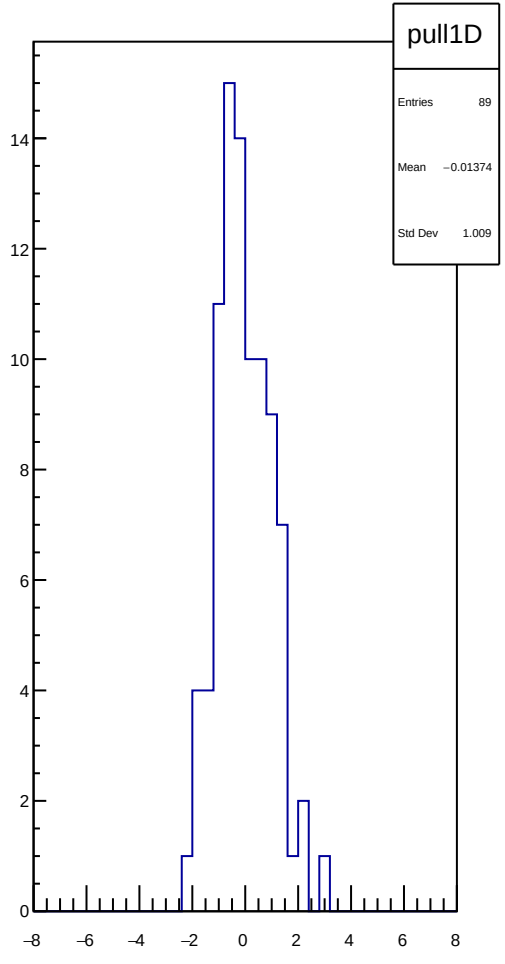

cor_asym_usr_rms vs run
χ² / ndf 137.8 / 88
p0 1087 ± 0.8372
1130
1120
1110
1100
1090
1080
1070
1060

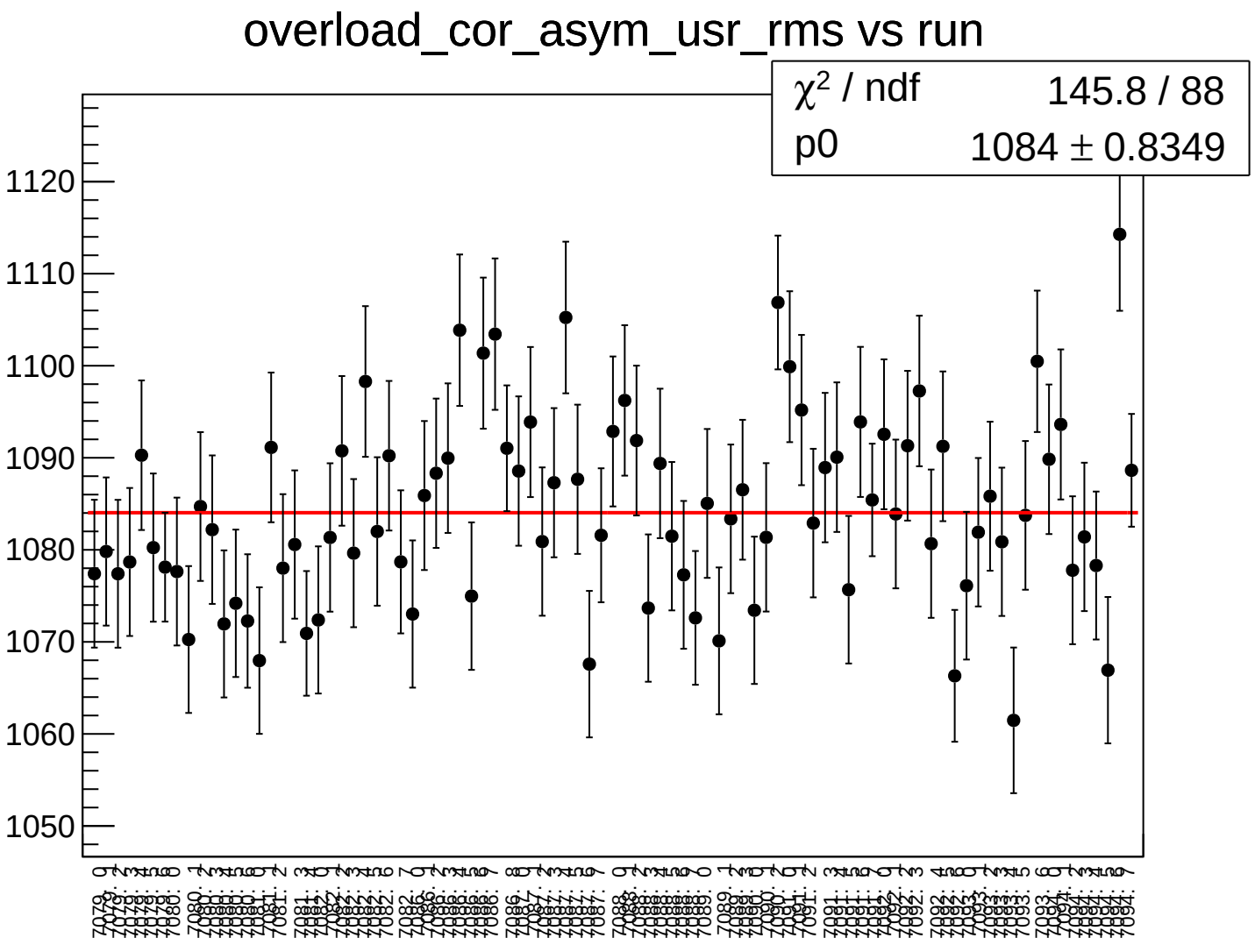

asym_usr_cor_correction_mean vs run
χ² / ndf 74.01 / 88
p0 418 ± 1824
pull
Entries 89
Mean −233
Std Dev 0

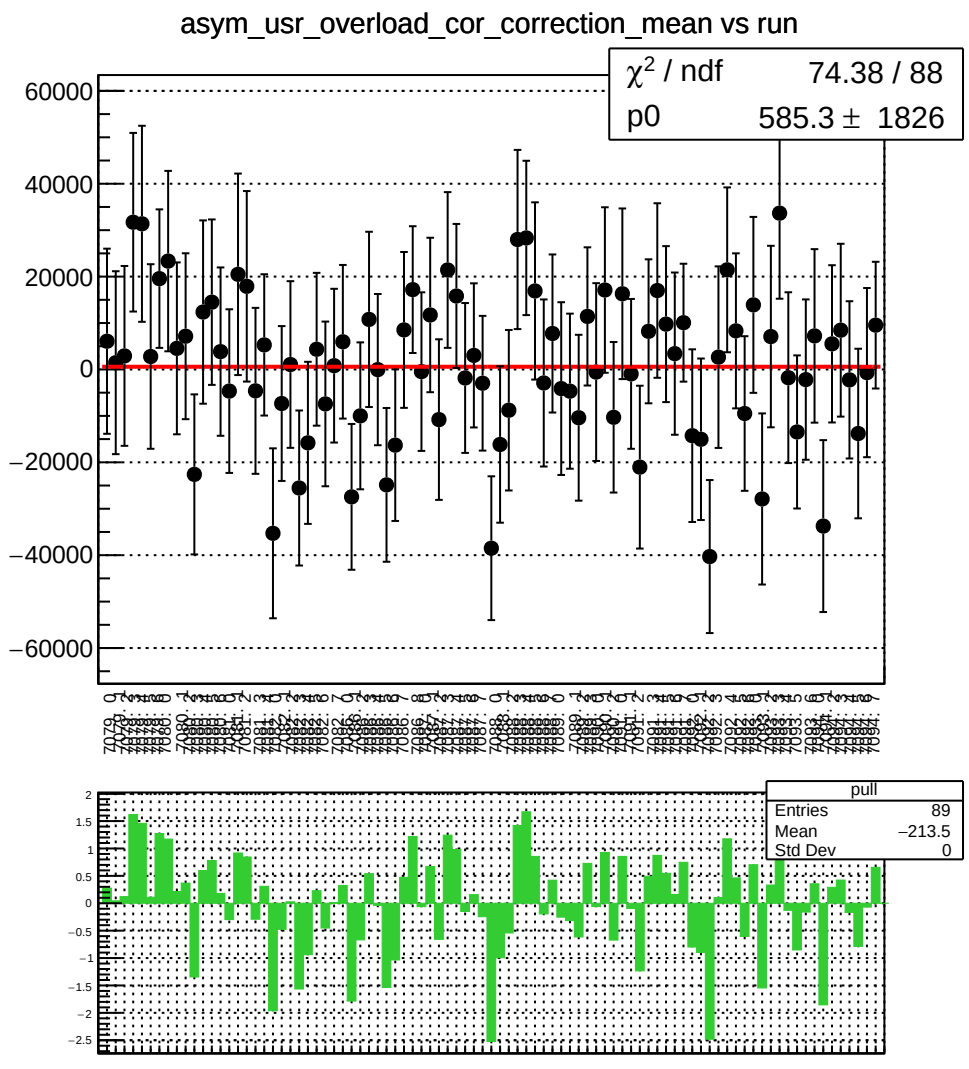

pull1D
Entries 89
Mean 0.009027
Std Dev 0.9118

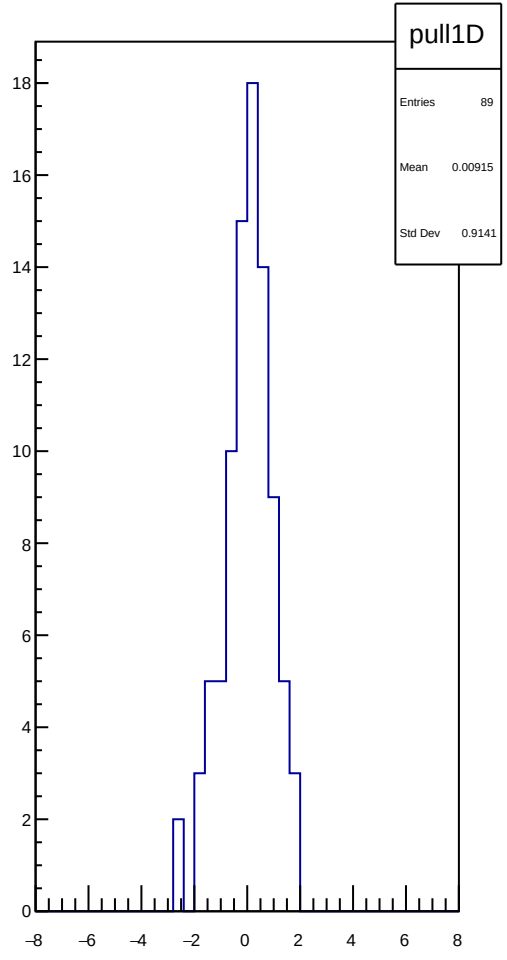

asym_usr_cor_correction_rms vs run
χ² / ndf 9516 / 88
p0 1670 ± 1.29
2100
2000
1900
1800
1700
1600
1500
1400

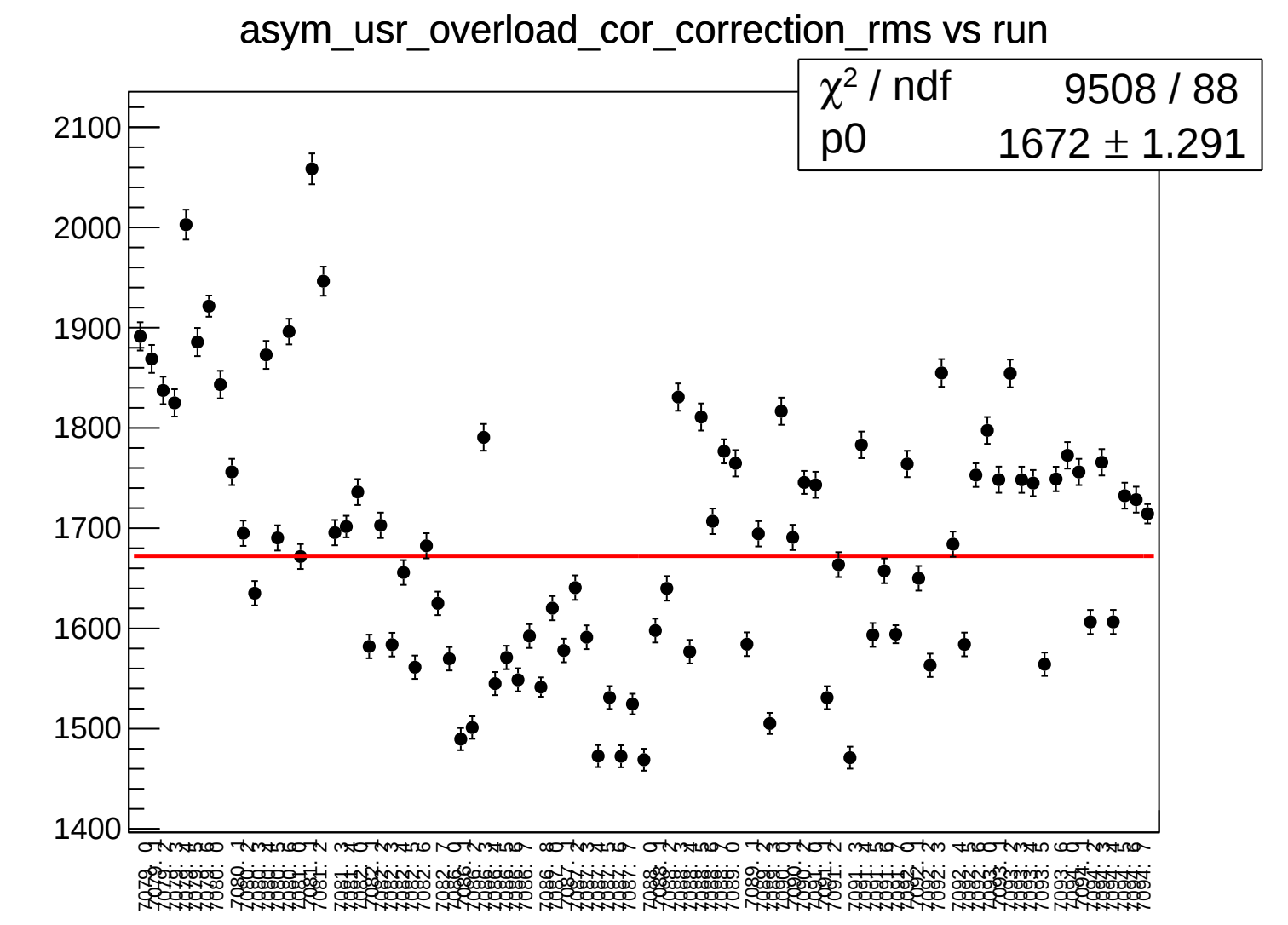

overload_cor_asym_usr_mean vs run
χ² / ndf 90.55 / 88
p0 1111 ± 1181
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 362.1
Std Dev 0
3
2
1
0
−1
−2

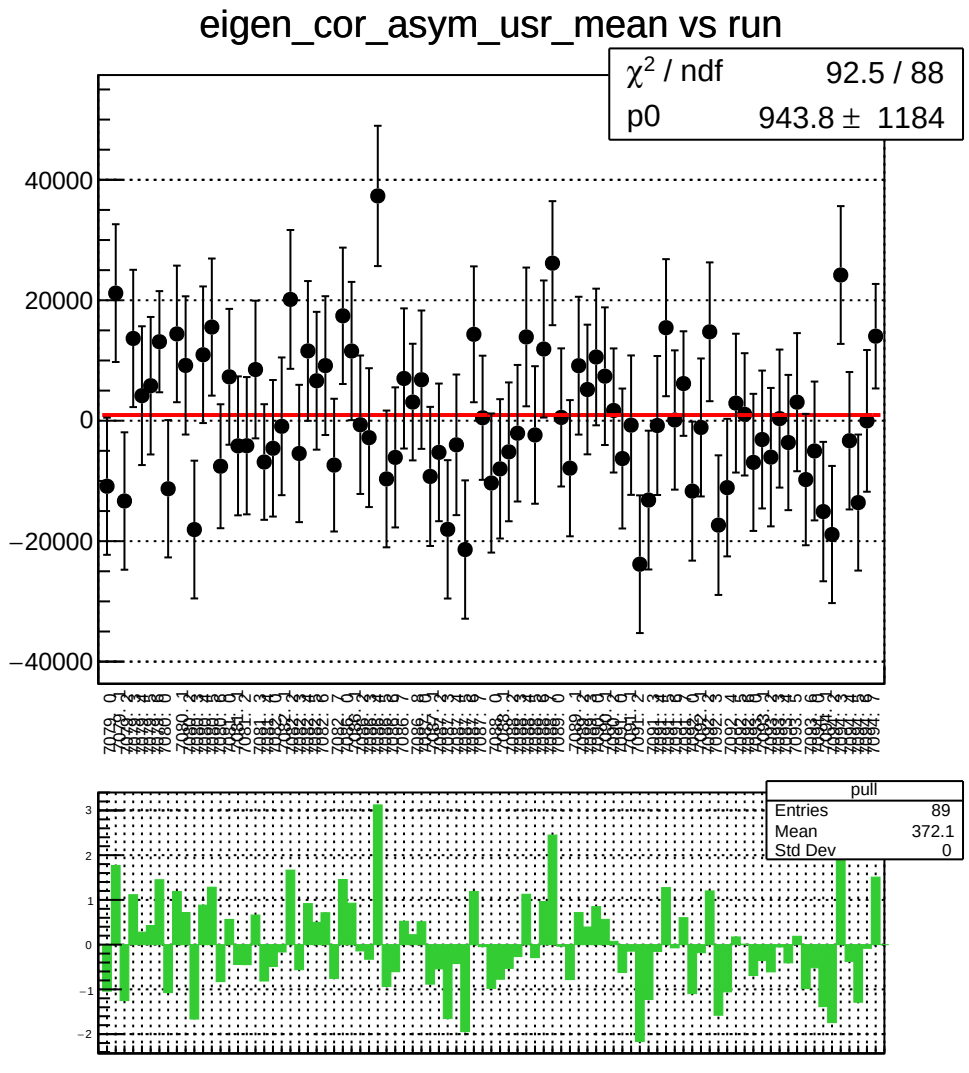

pull1D
Entries 89
Mean −0.01374
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

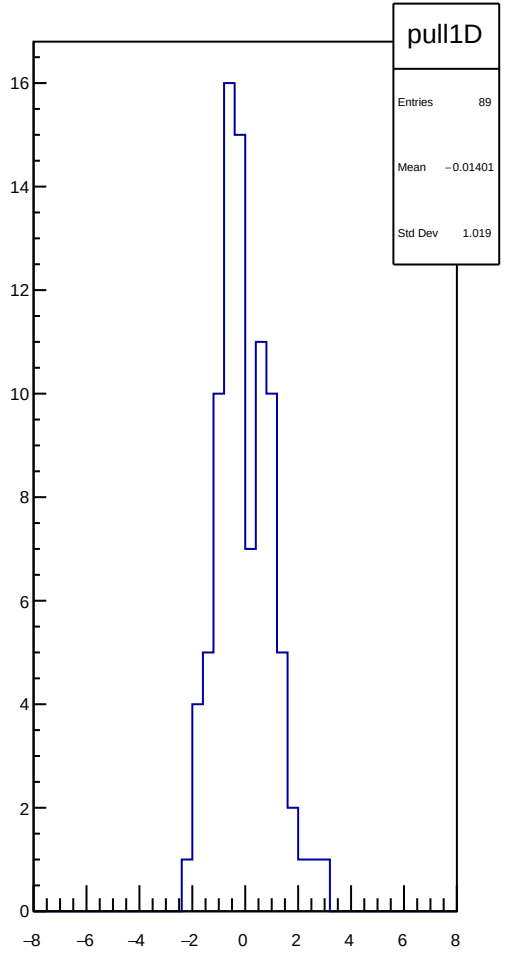

overload_cor_asym_usr_rms vs run
χ² / ndf 145.8 / 88
p0 1084 ± 0.8349
1120
1110
1100
1090
1080
1070
1060
1050

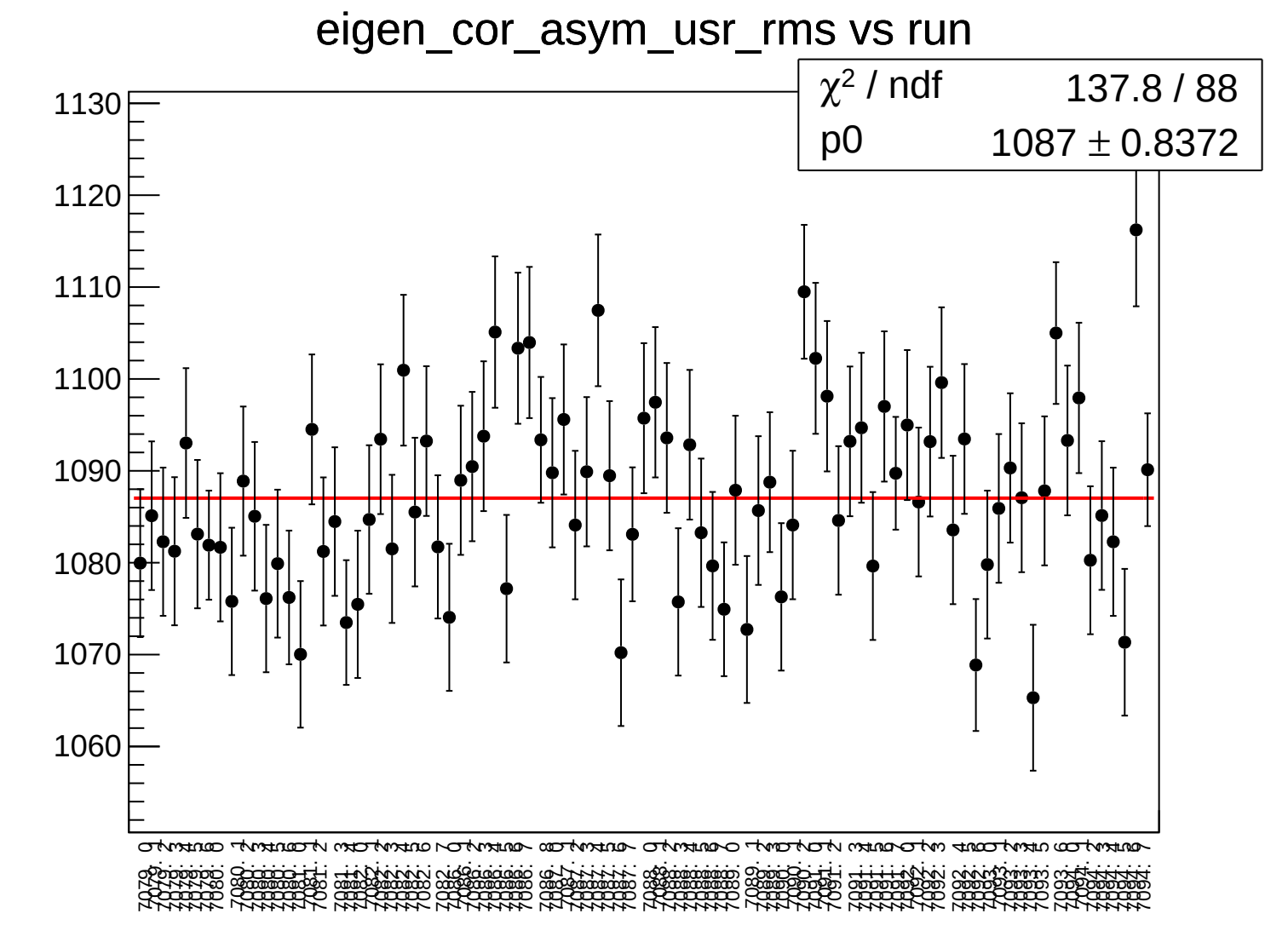

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 74.38 / 88
p0 585.3 ± 1826
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −213.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

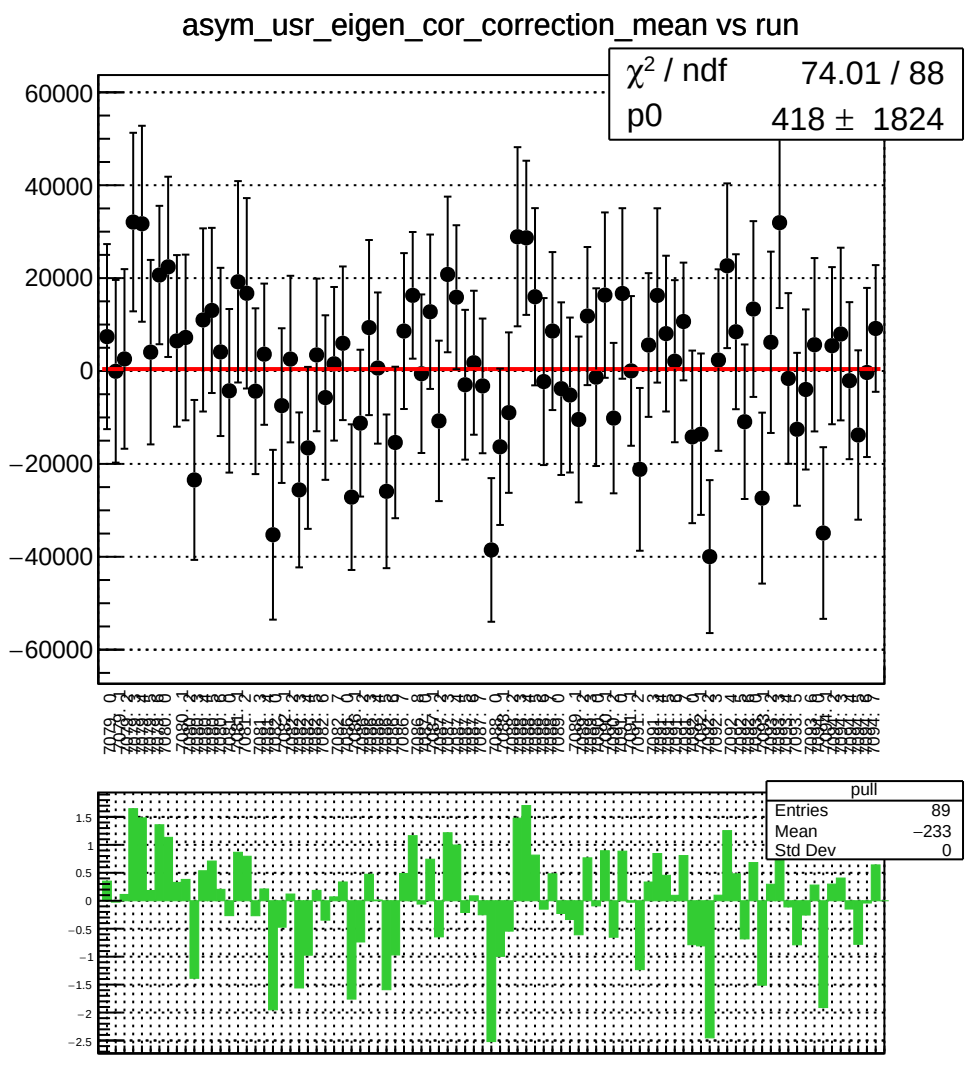

pull1D
Entries 89
Mean 0.00915
Std Dev 0.9141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

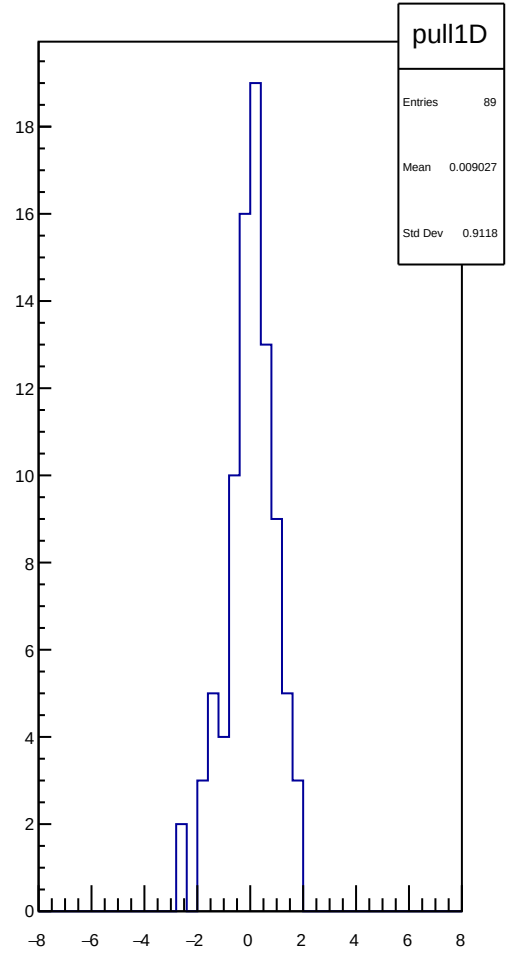

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 9508 / 88
p0 1672 ± 1.291
2100
2000
1900
1800
1700
1600
1500
1400

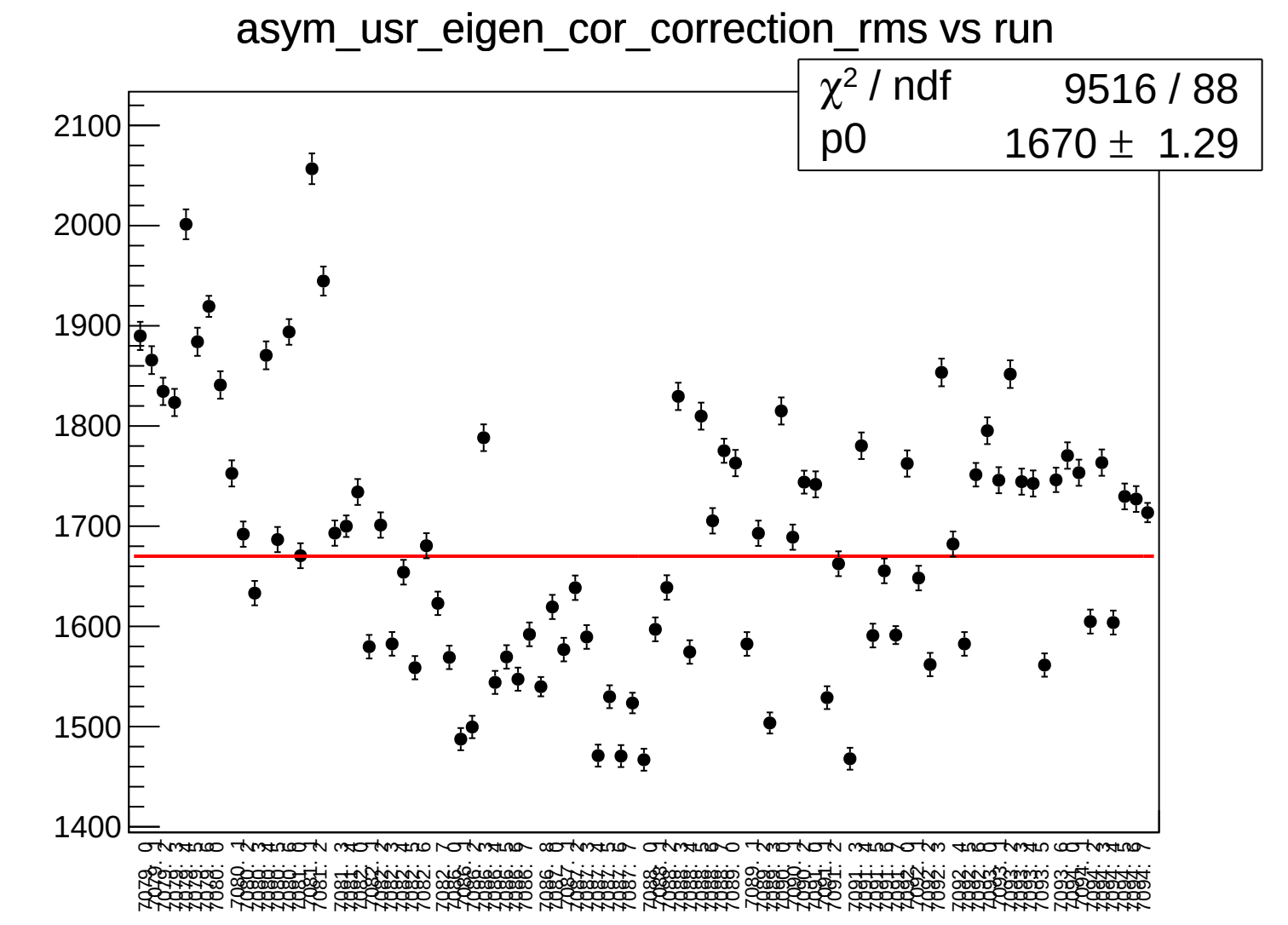

eigen_cor_asym_usr_mean vs run
χ² / ndf 92.5 / 88
p0 943.8 ± 1184
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 372.1
Std Dev 0
3
2
1
0
−1
−2

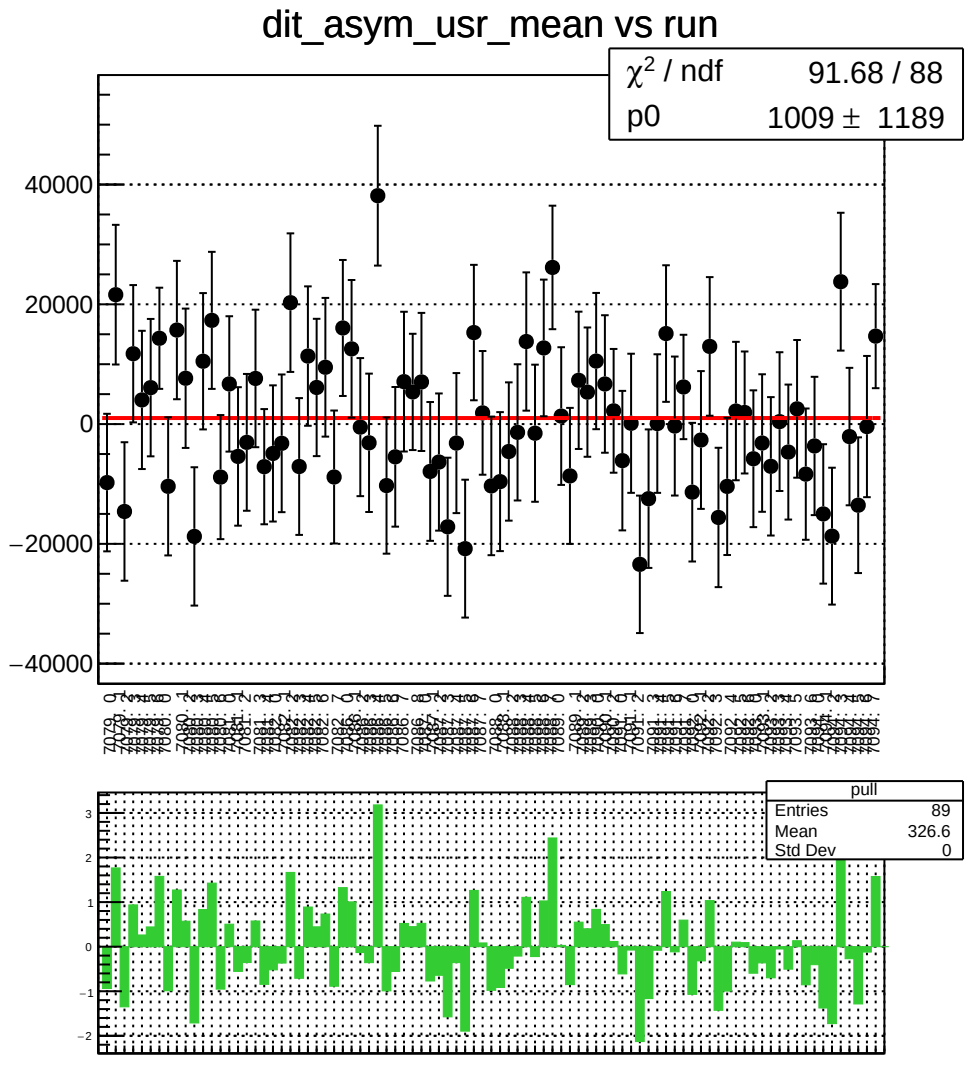

pull1D
Entries 89
Mean −0.01401
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

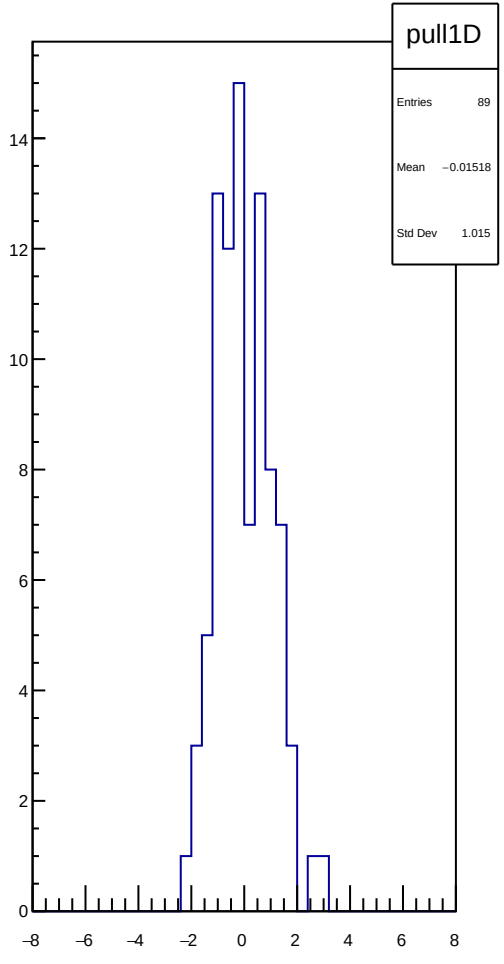

eigen_cor_asym_usr_rms vs run
χ² / ndf 137.8 / 88
p0 1087 ± 0.8372
1130
1120
1110
1100
1090
1080
1070
1060

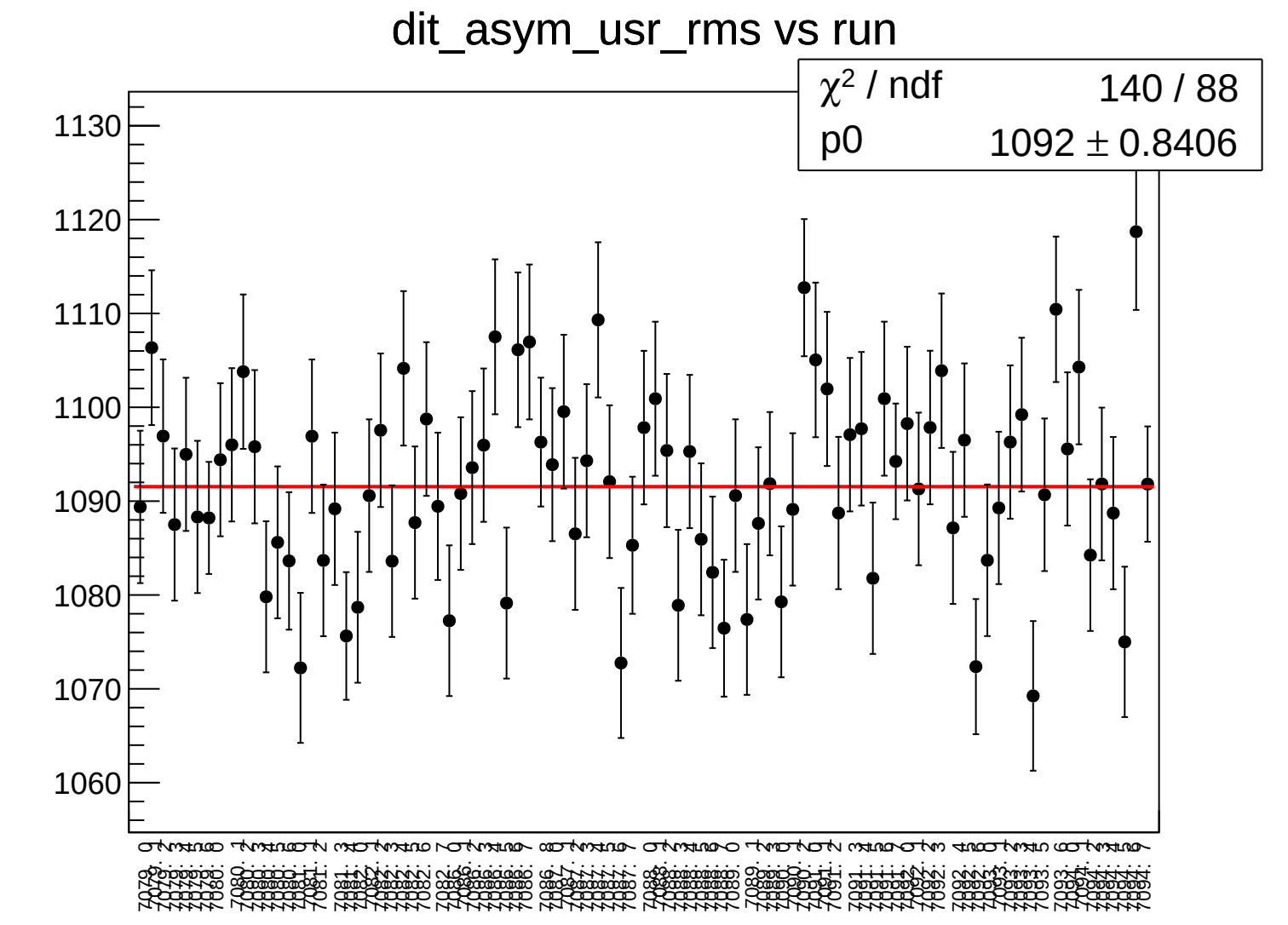

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 74.01 / 88
p0 418 ± 1824
pull
Entries 89
Mean −233
Std Dev 0

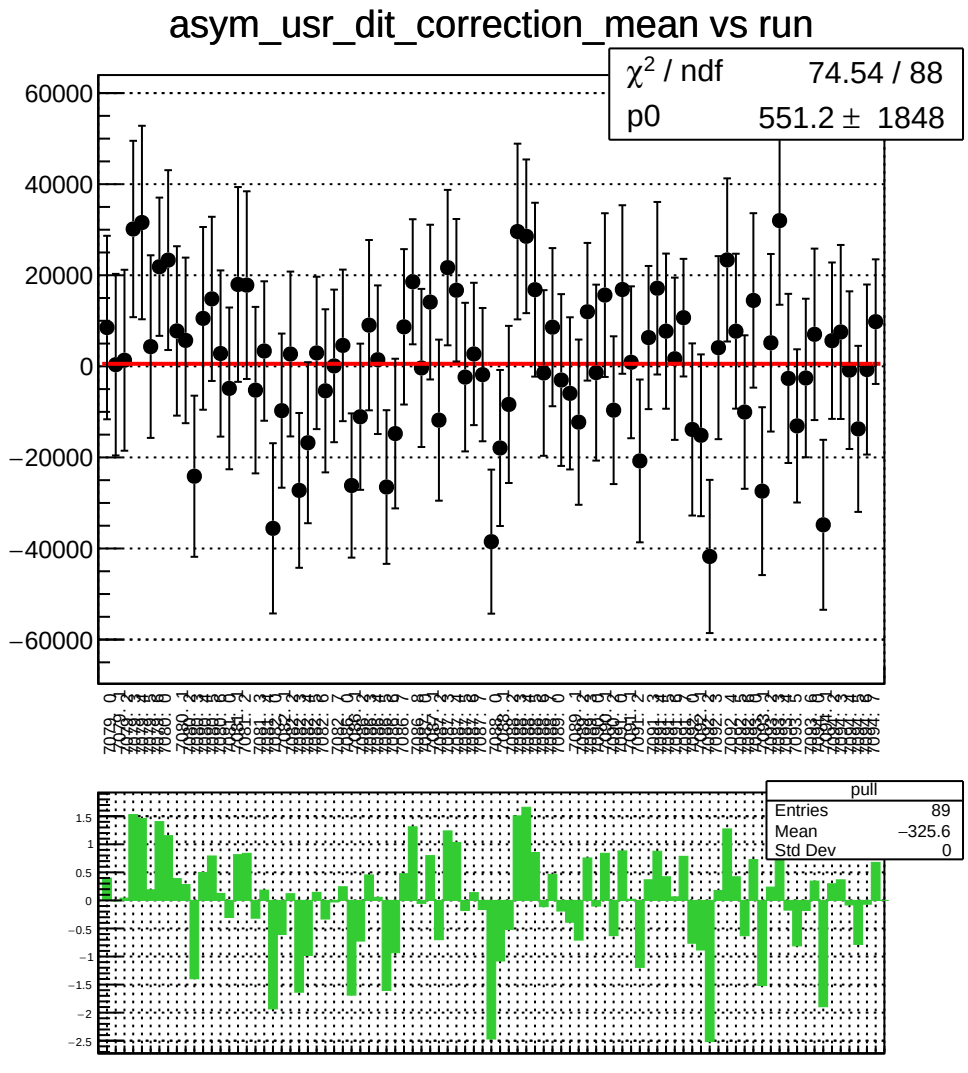

pull1D
Entries 89
Mean 0.009027
Std Dev 0.9118

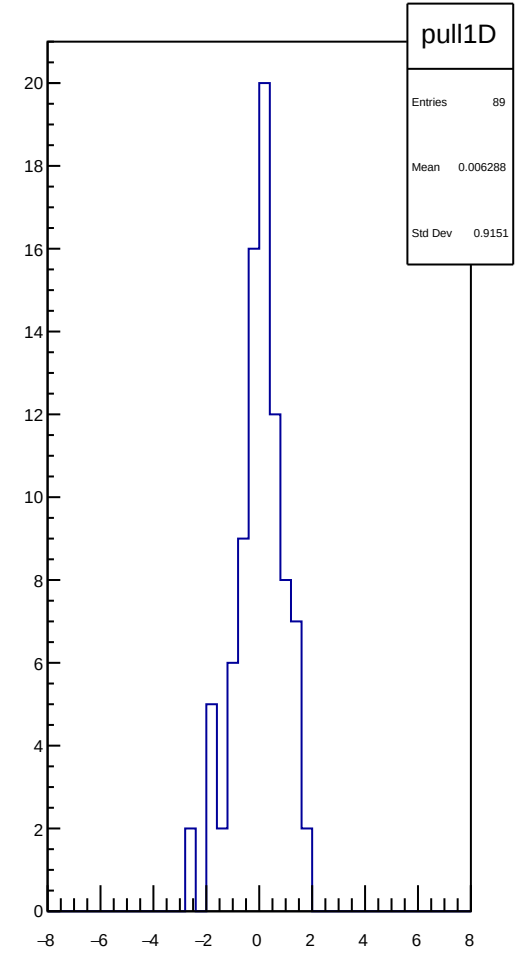

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 9516 / 88
p0 1670 ± 1.29
2100
2000
1900
1800
1700
1600
1500
1400


dit_asym_usr_mean vs run
χ^2 / ndf 91.68 / 88
p0 1009 ± 1189
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 326.6
Std Dev 0
3
2
1
0
−1
−2

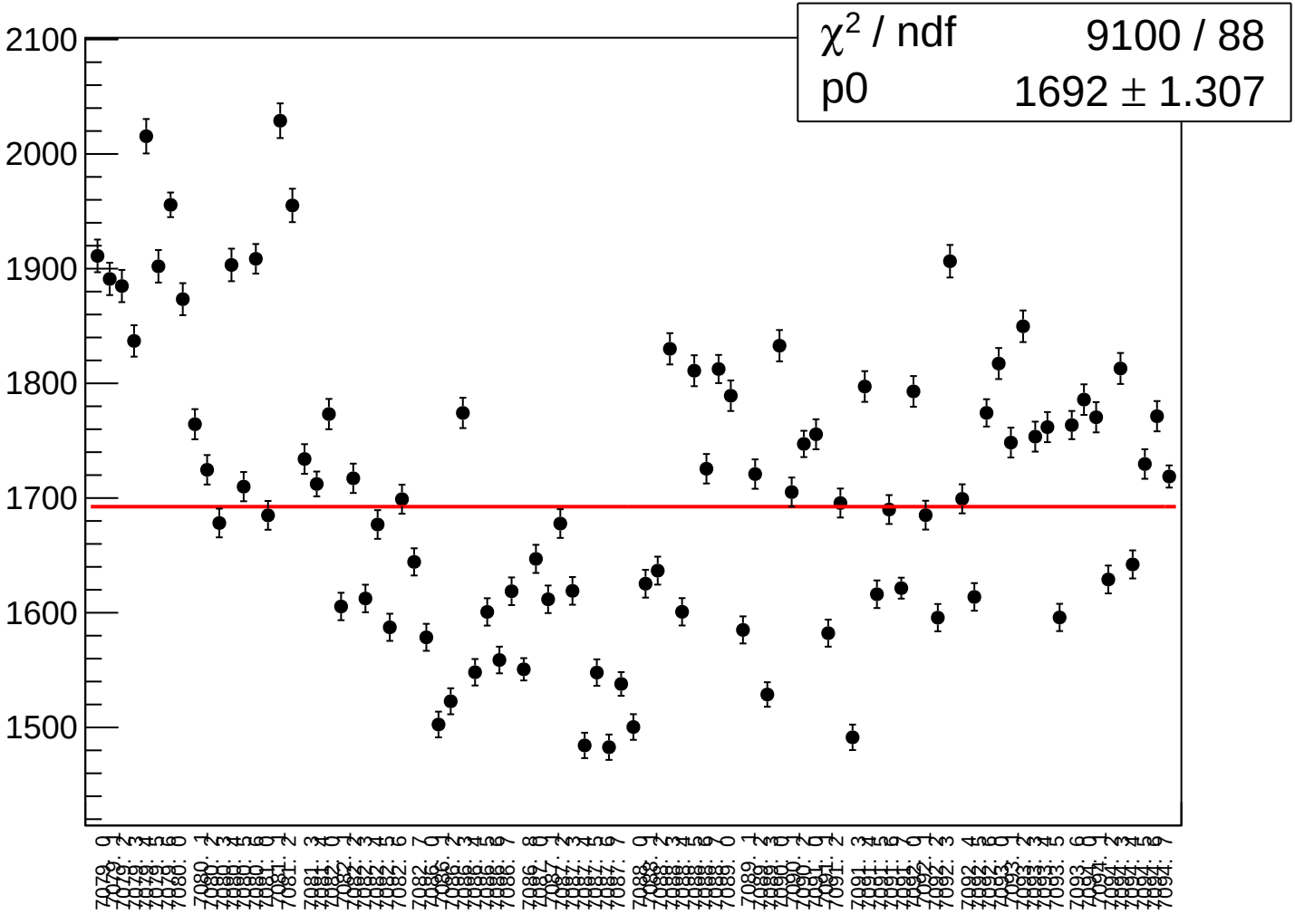

pull1D
Entries 89
Mean −0.01518
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

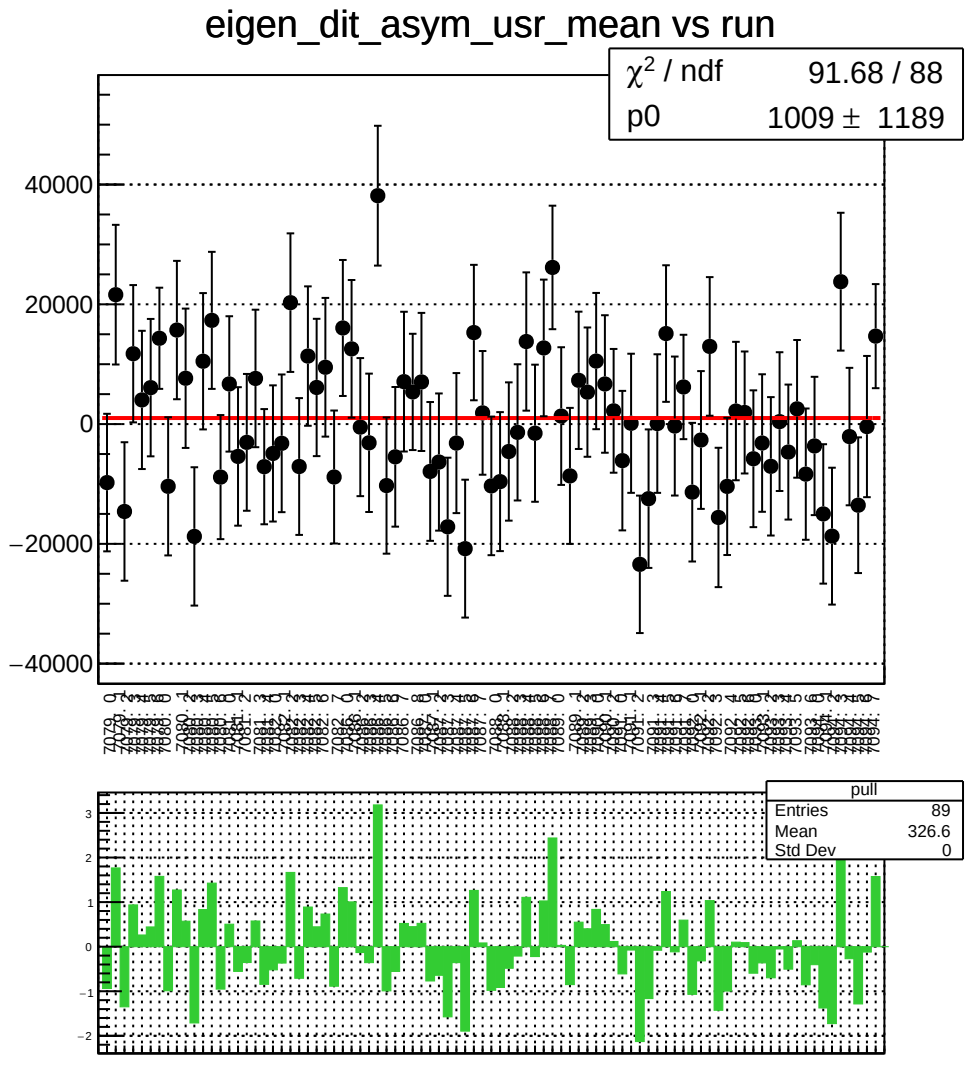

dit_asym_usr_rms vs run
χ² / ndf 140 / 88
p0 1092 ± 0.8406
1130
1120
1110
1100
1090
1080
1070
1060

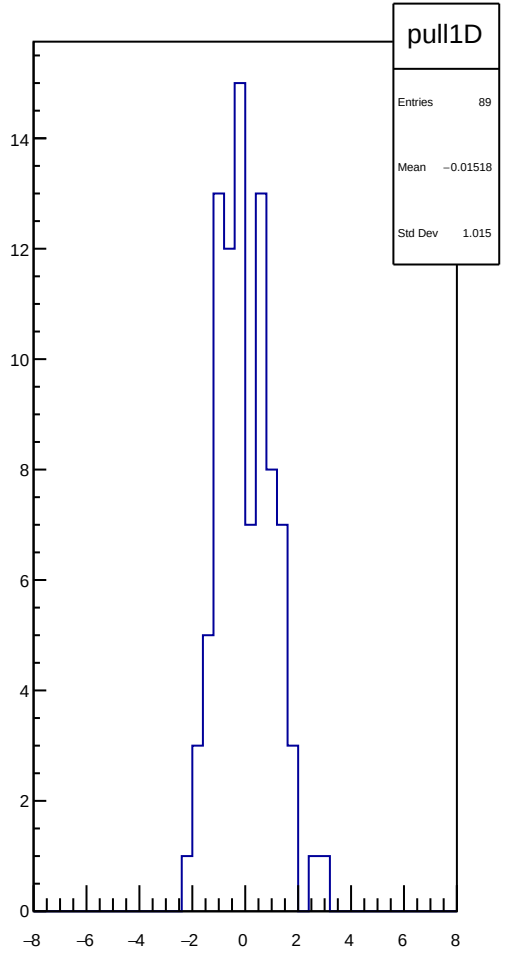

asym_usr_dit_correction_mean vs run
χ² / ndf 74.54 / 88
p0 551.2 ± 1848
pull
Entries 89
Mean −325.6
Std Dev 0

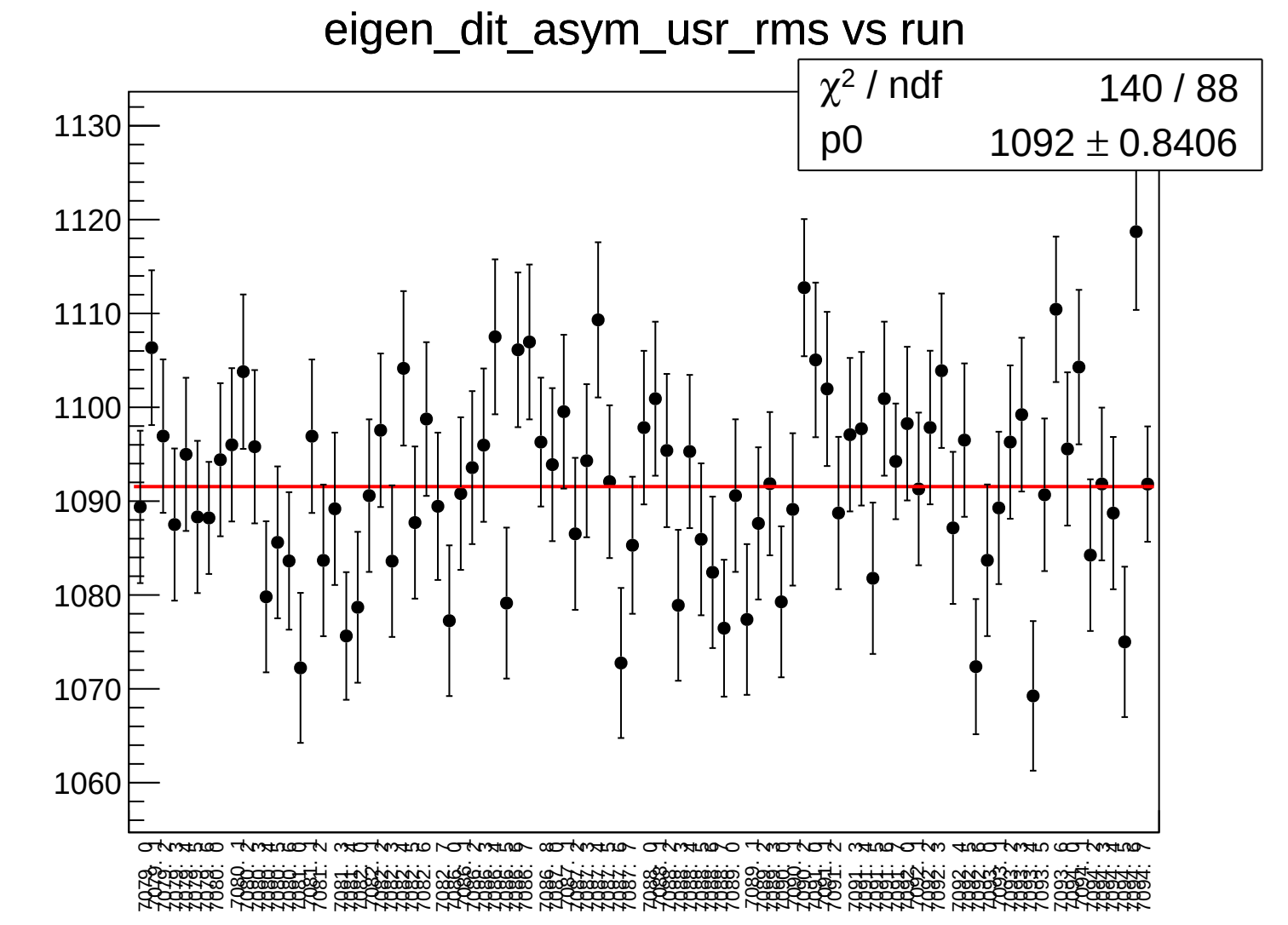

pull1D
Entries 89
Mean 0.006288
Std Dev 0.9151

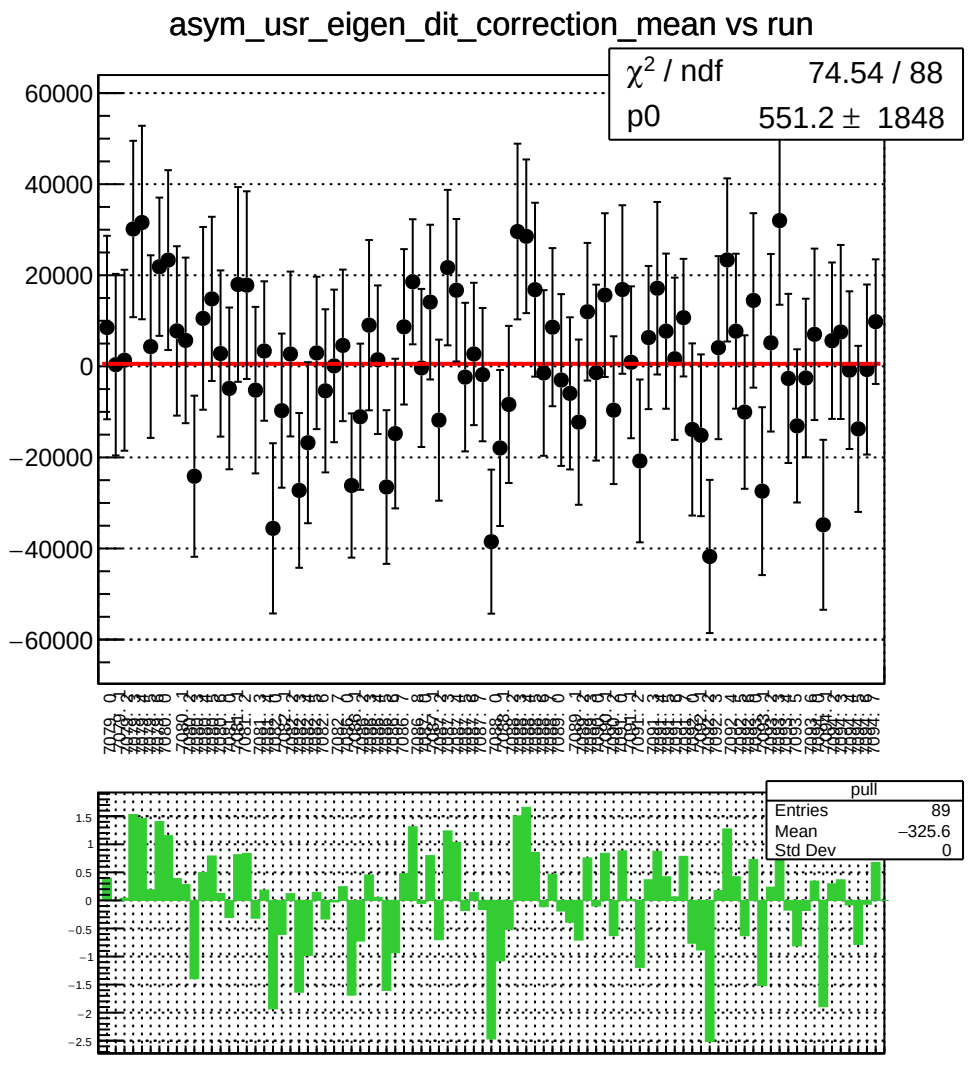
asym_usr_dit_correction_rms vs run

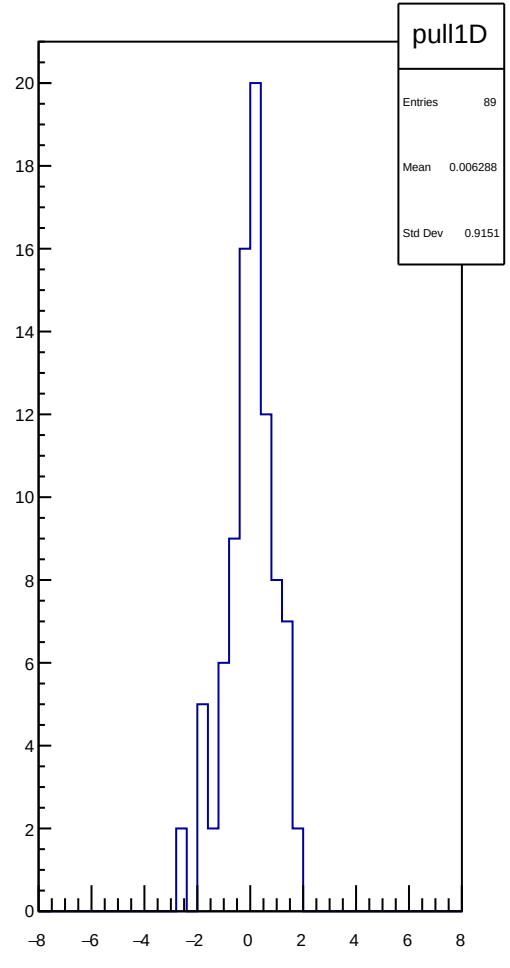


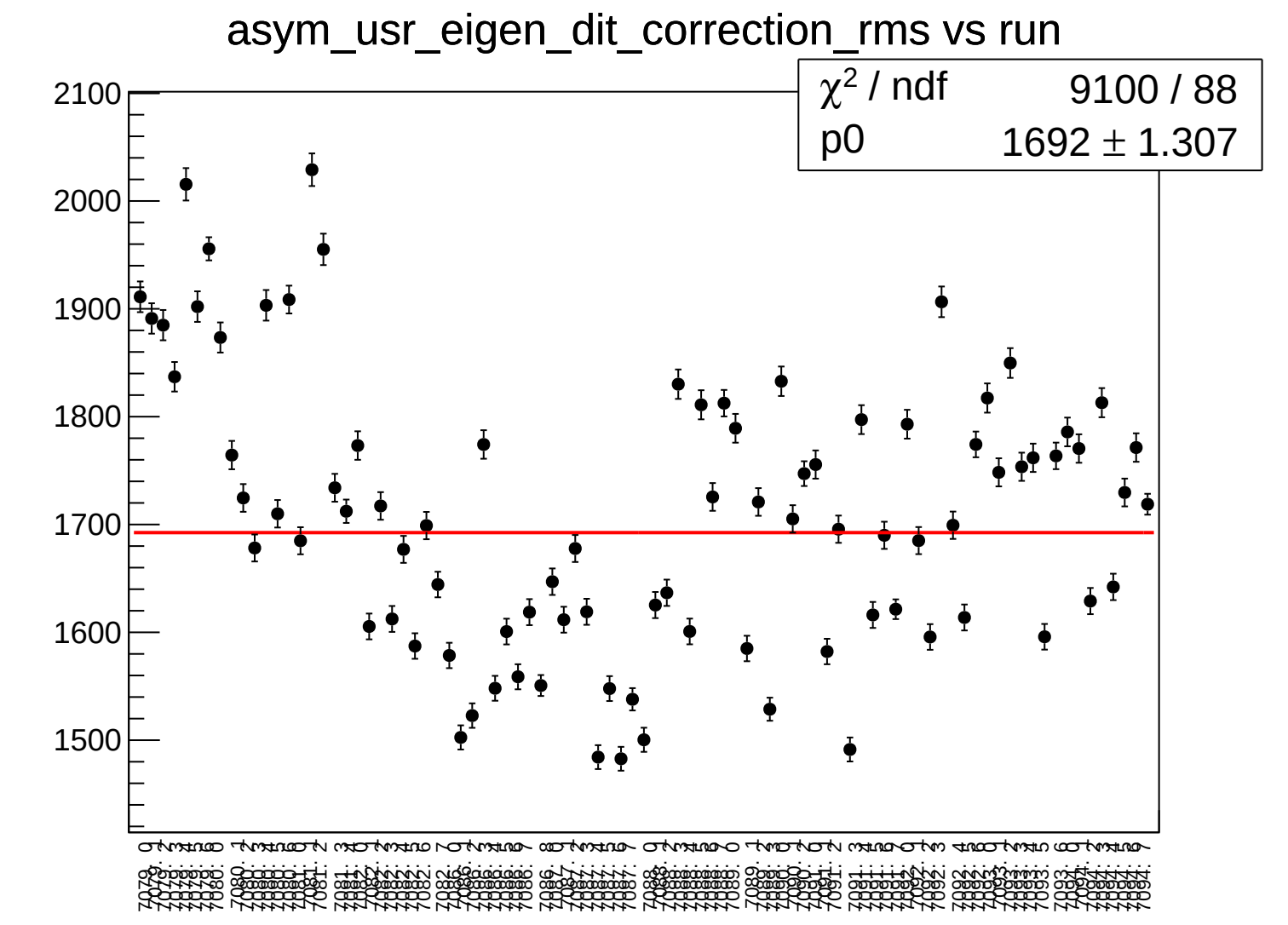

eigen_dit_asym_usr_mean vs run
χ² / ndf 91.68 / 88
p0 1009 ± 1189
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 326.6
Std Dev 0
3
2
1
0
−1
−2

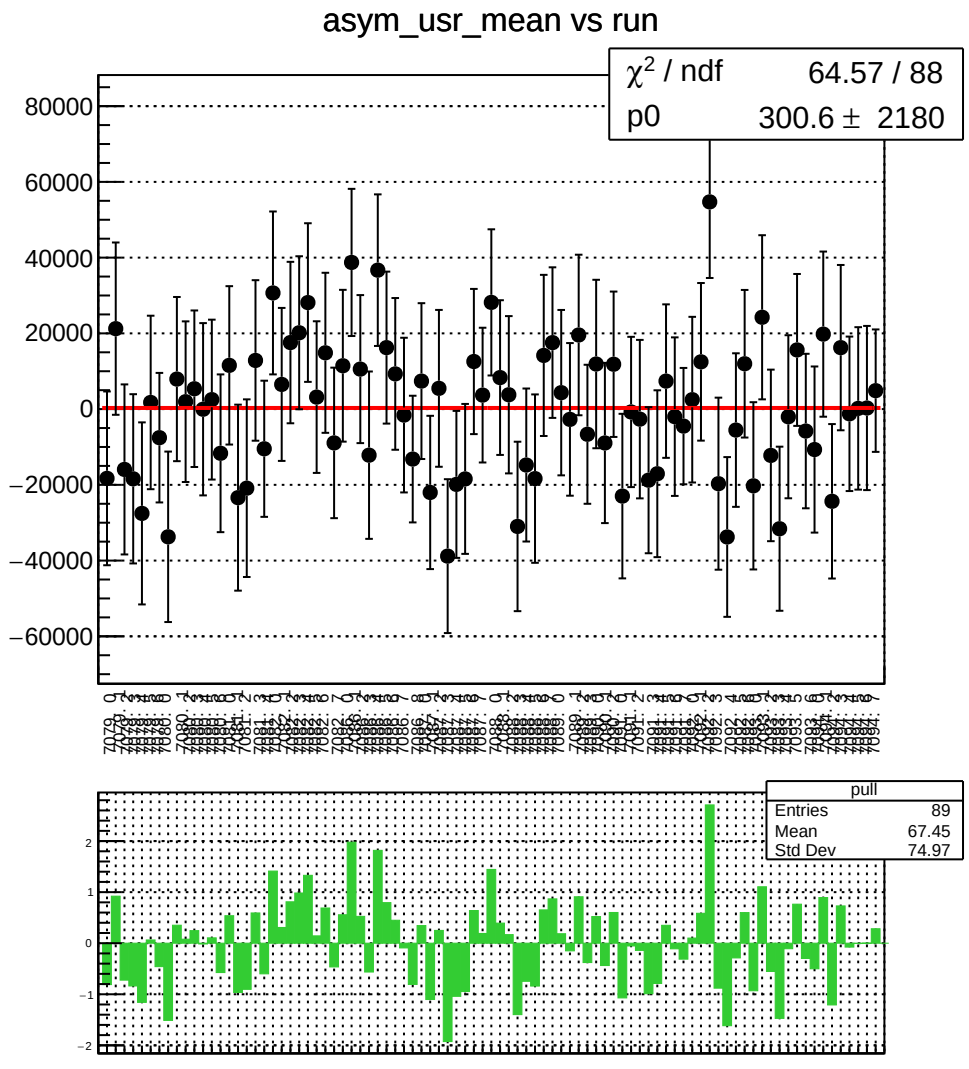

pull1D
Entries 89
Mean −0.01518
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

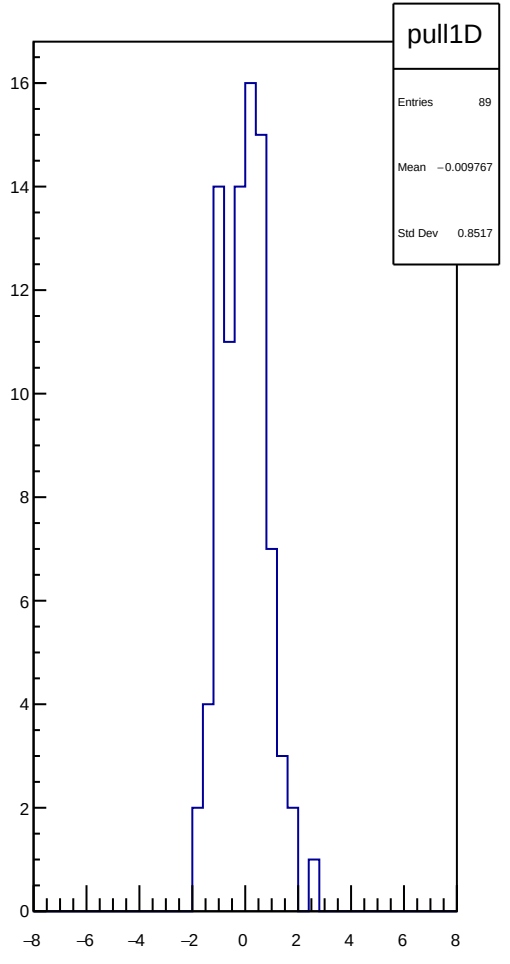

eigen_dit_asym_usr_rms vs run
χ² / ndf 140 / 88
p0 1092 ± 0.8406
1130
1120
1110
1100
1090
1080
1070
1060

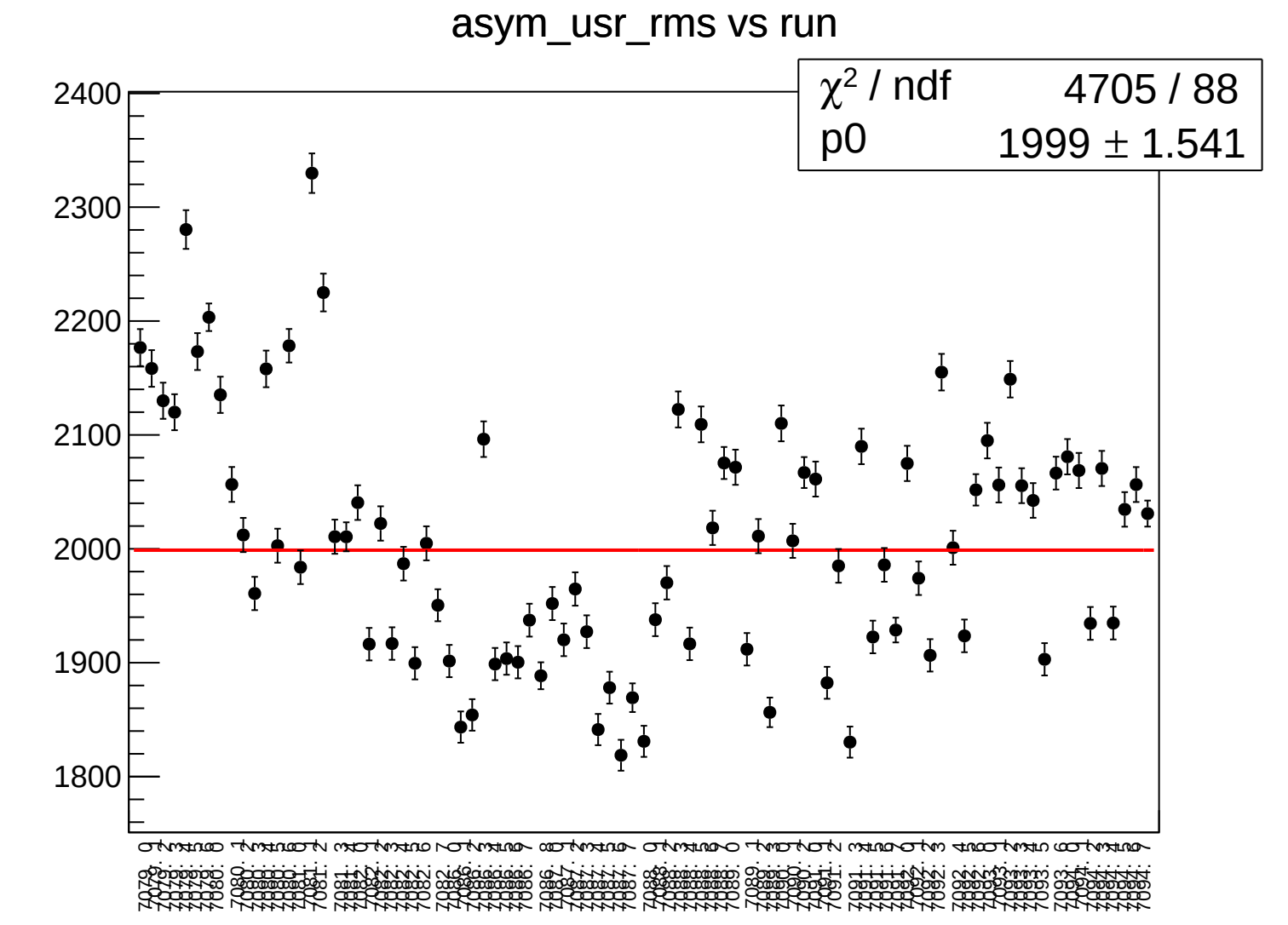

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 74.54 / 88
p0 551.2 ± 1848
pull
Entries 89
Mean −325.6
Std Dev 0

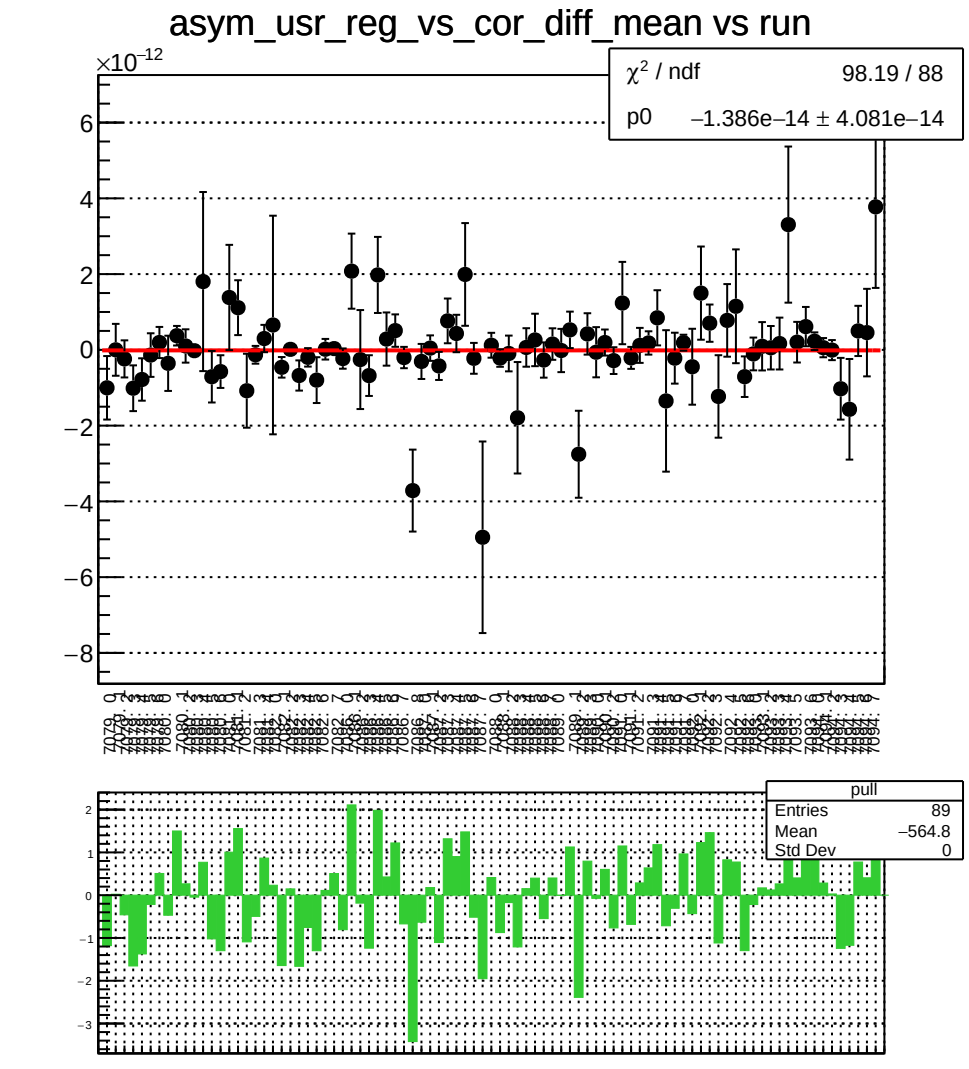

pull1D
Entries 89
Mean 0.006288
Std Dev 0.9151

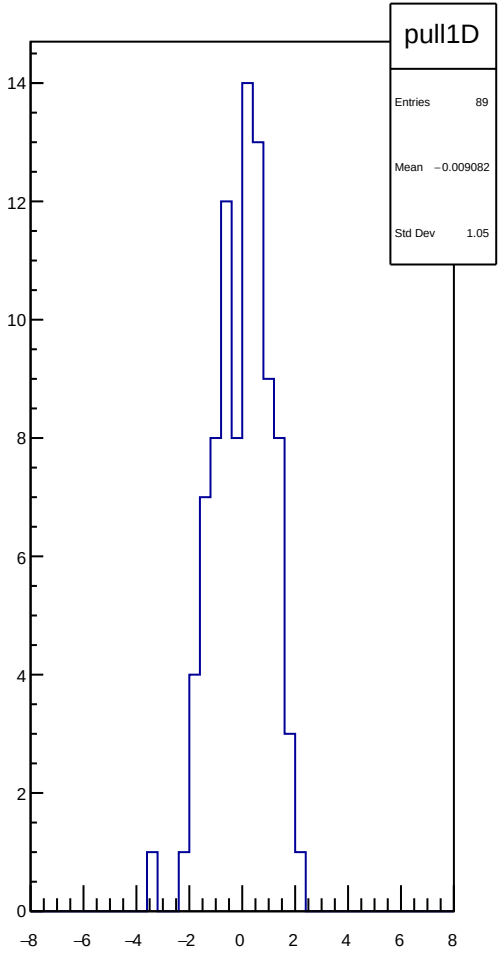

asym_usr_eigen_dit_correction_rms vs run
χ^2 / ndf 9100 / 88
p0 1692 ± 1.307
2100
2000
1900
1800
1700
1600
1500

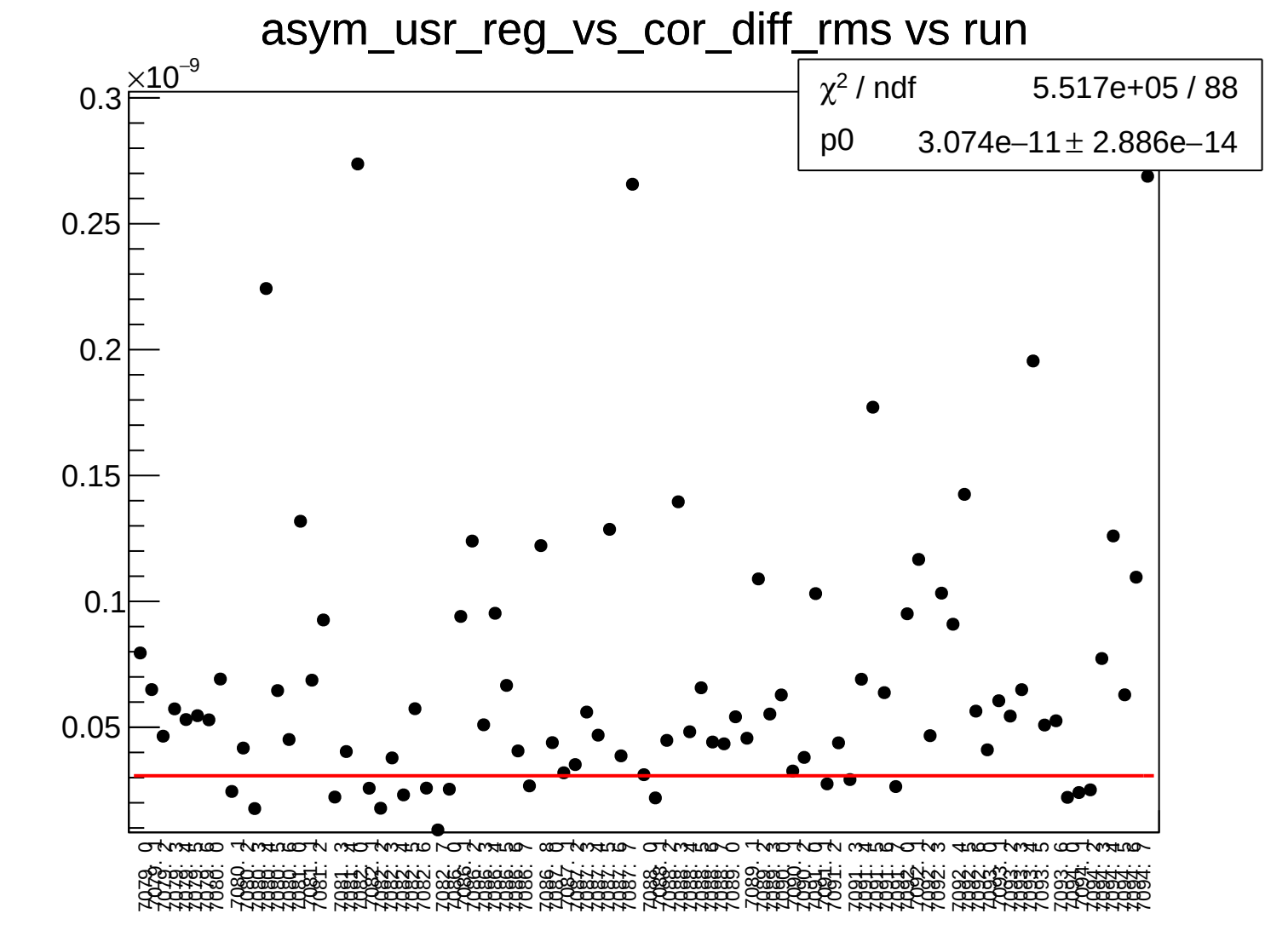

asym_usr_mean vs run
χ² / ndf 64.57 / 88
p0 300.6 ± 2180
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 67.45
Std Dev 74.97
2
1
0
−1
−2

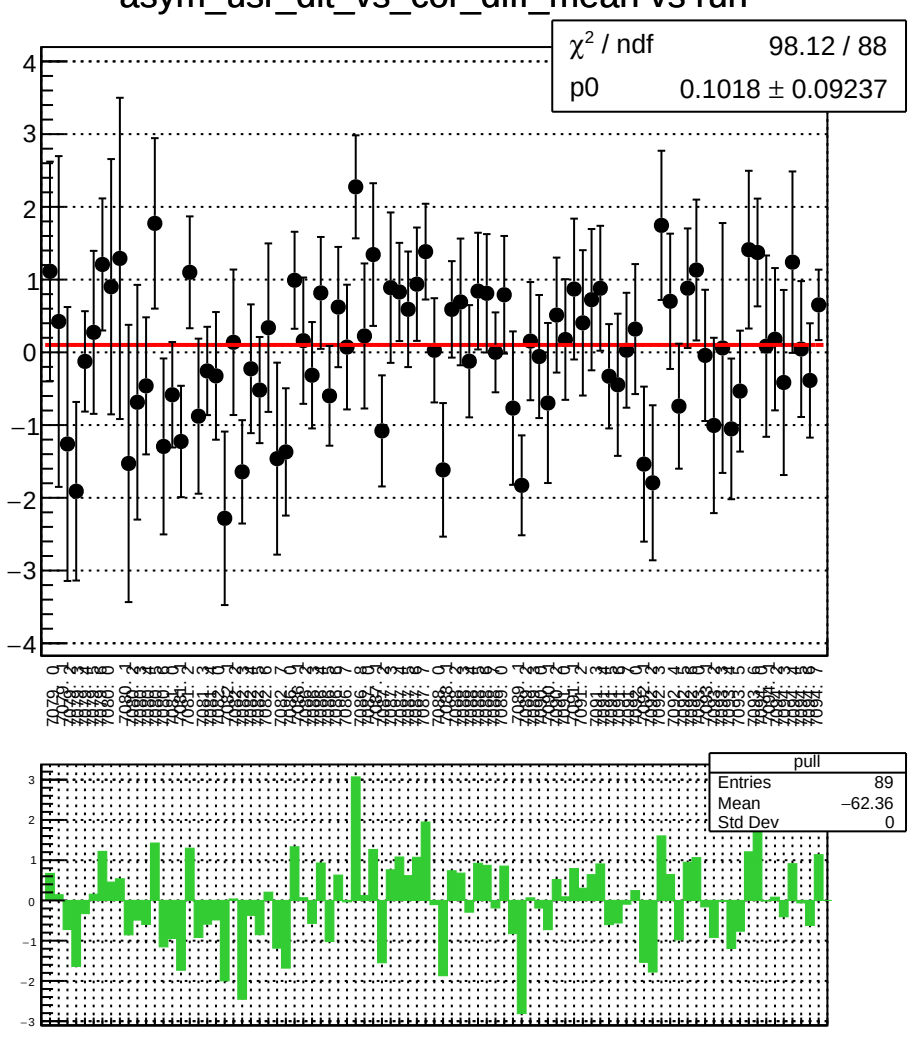

pull1D
Entries 89
Mean −0.009767
Std Dev 0.8517
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

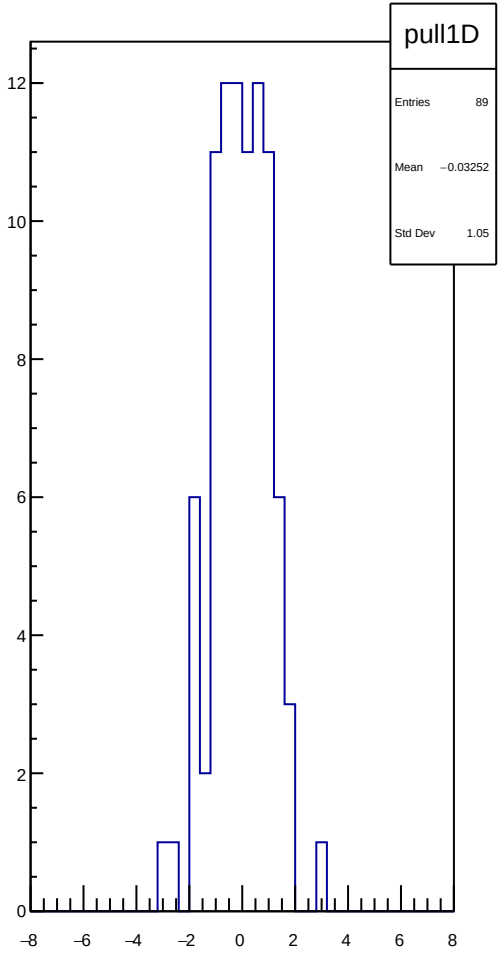

asym_usr_rms vs run
χ² / ndf 4705 / 88
p0 1999 ± 1.541
2400
2300
2200
2100
2000
1900
1800

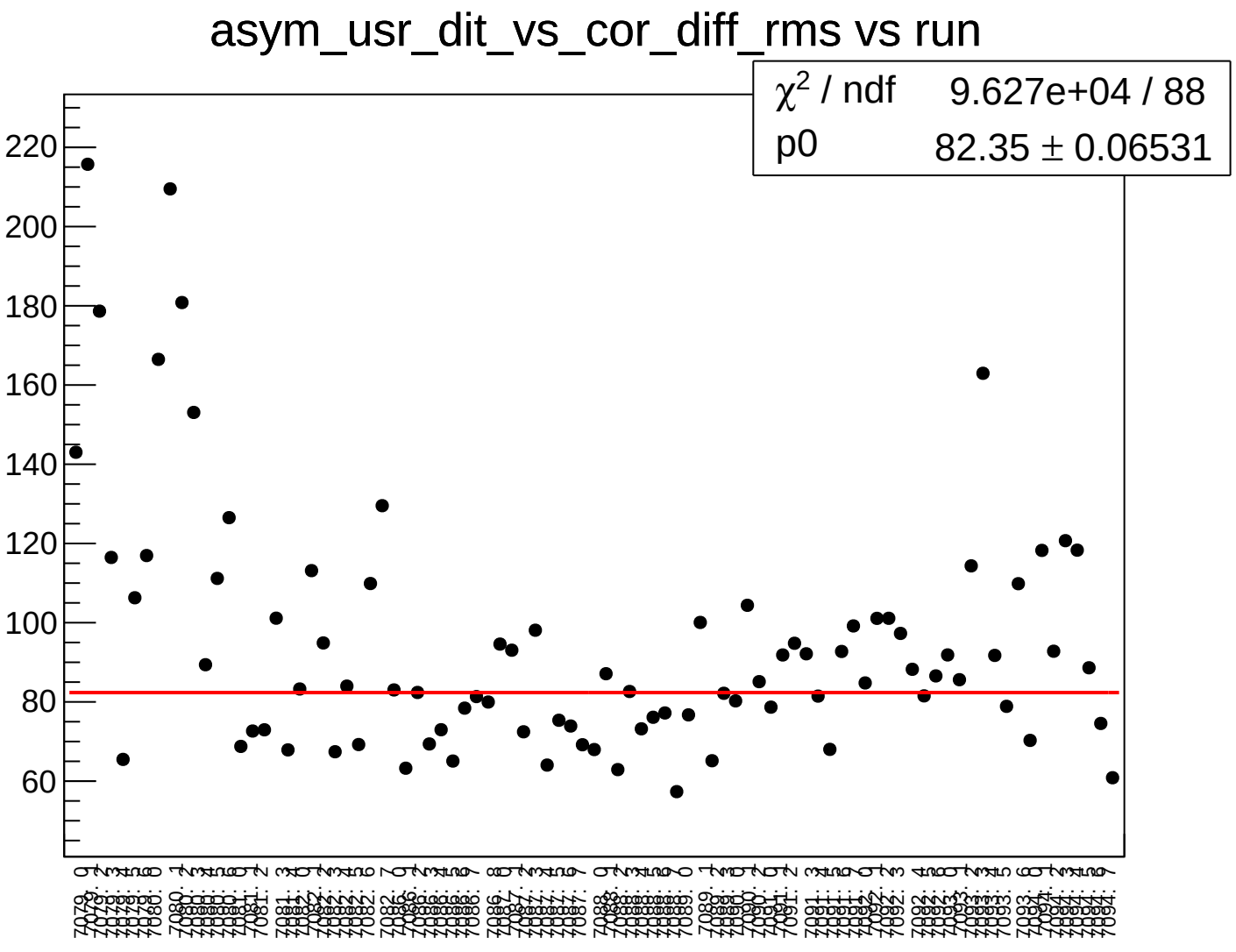

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.19 / 88
p0 −1.386e−14 ± 4.081e−14
pull
Entries 89
Mean −564.8
Std Dev 0

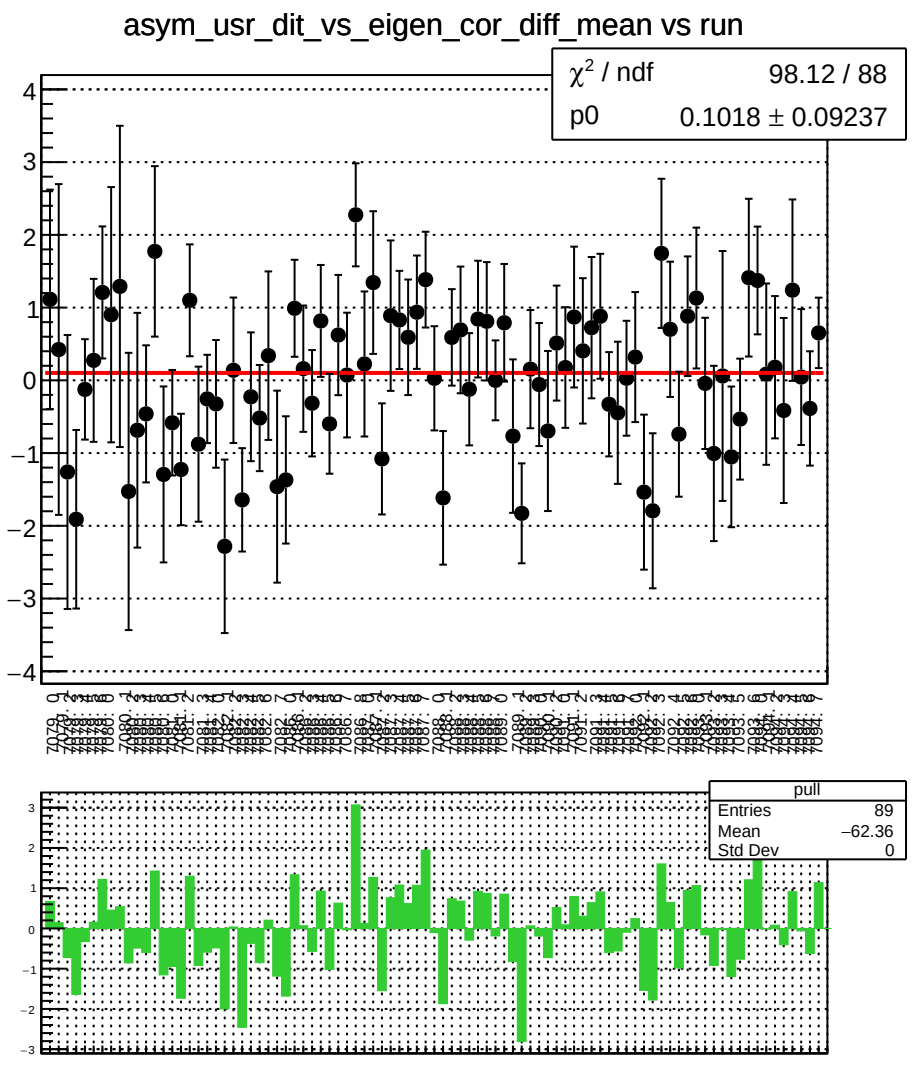

pull1D
Entries 89
Mean −0.009082
Std Dev 1.05

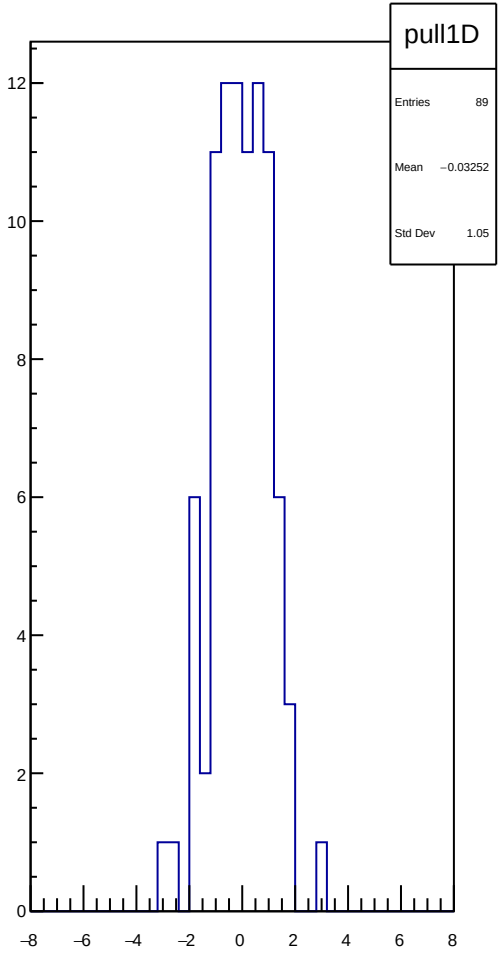

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.517e+05 / 88
p0 3.074e−11 ± 2.886e−14

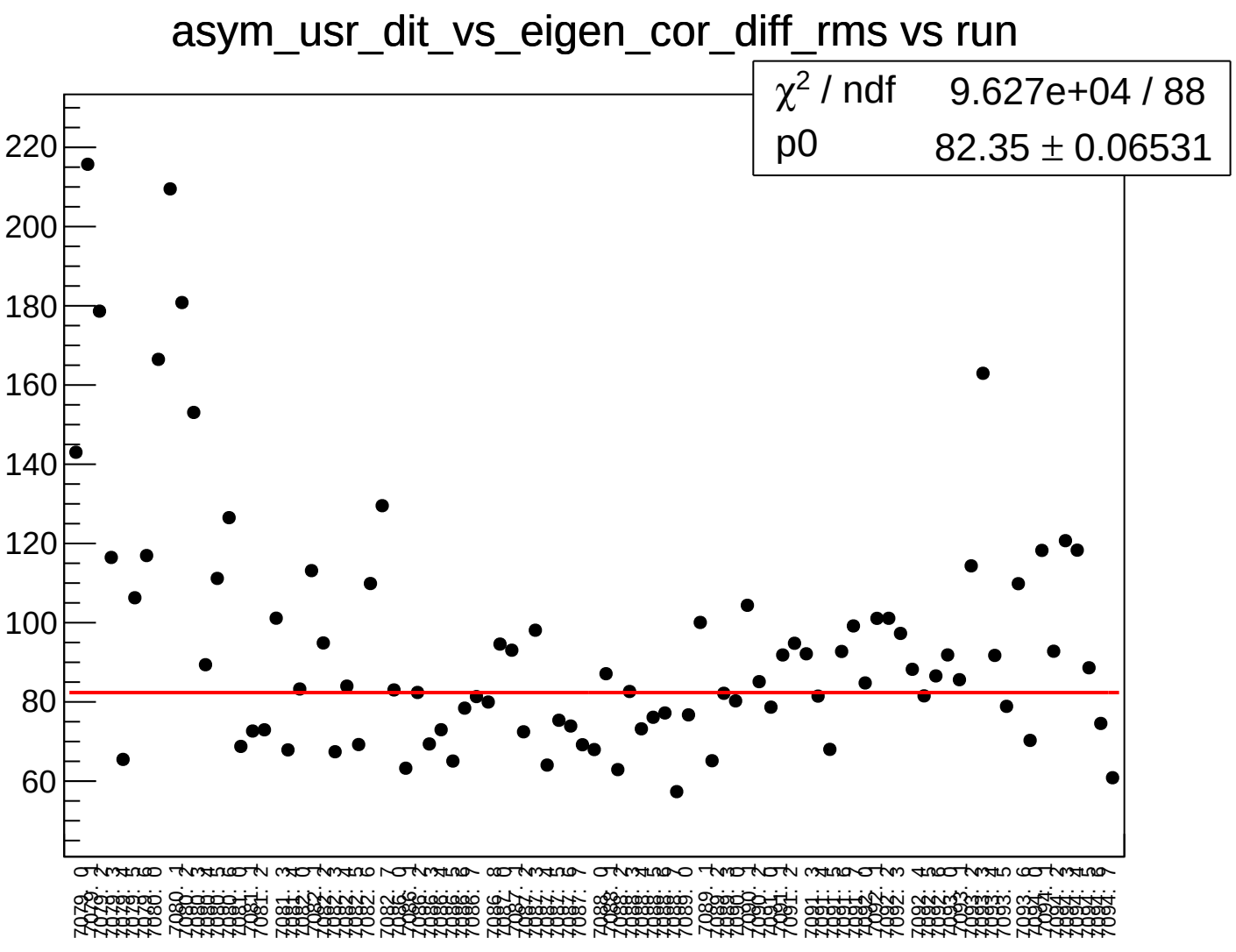

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 98.12 / 88
p0 0.1018 ± 0.09237
pull
Entries 89
Mean −62.36
Std Dev 0

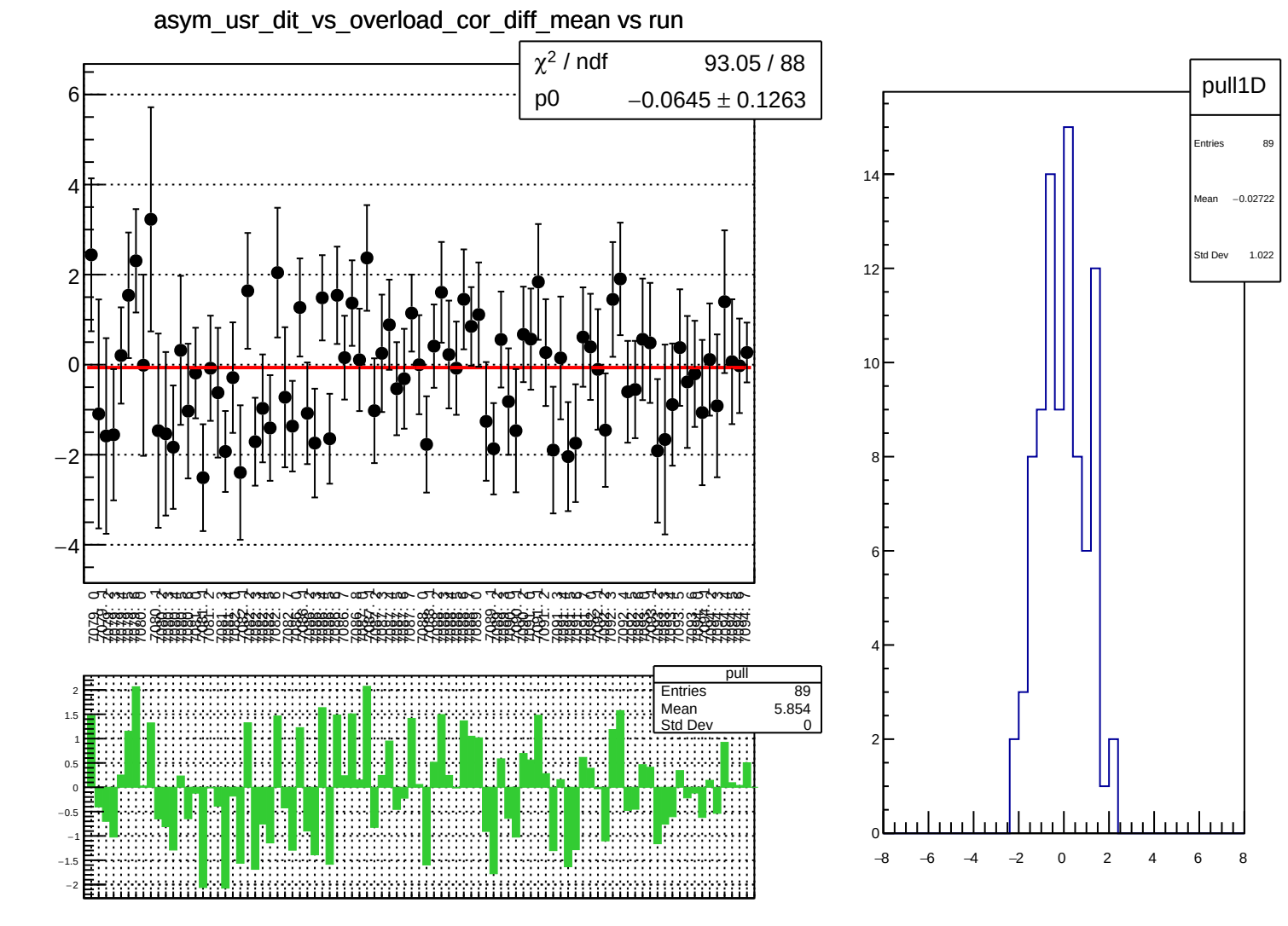

pull1D
Entries 89
Mean −0.03252
Std Dev 1.05

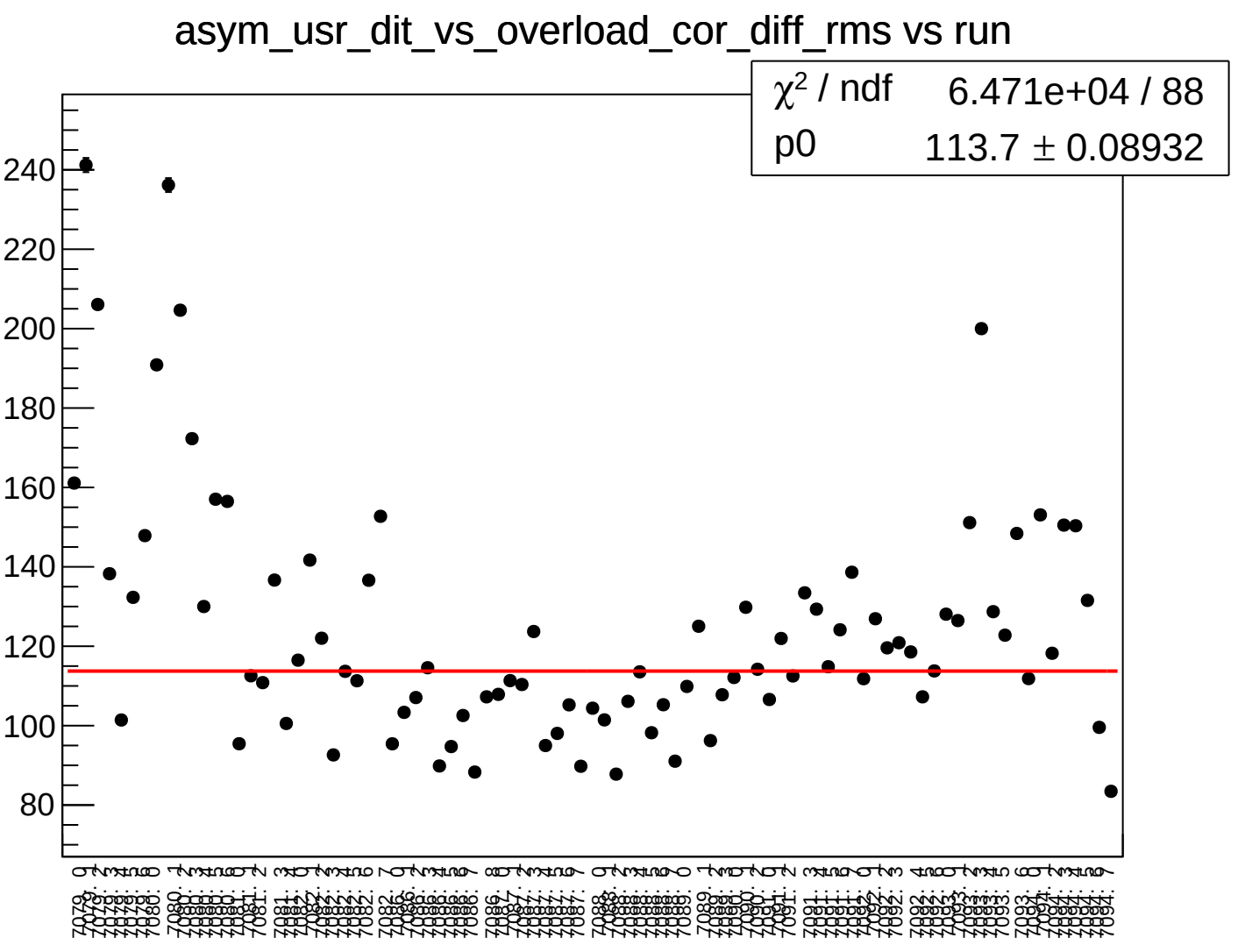

asym_usr_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.627e+04 / 88
p0 82.35 ± 0.06531
220
200
180
160
140
120
100
80
60

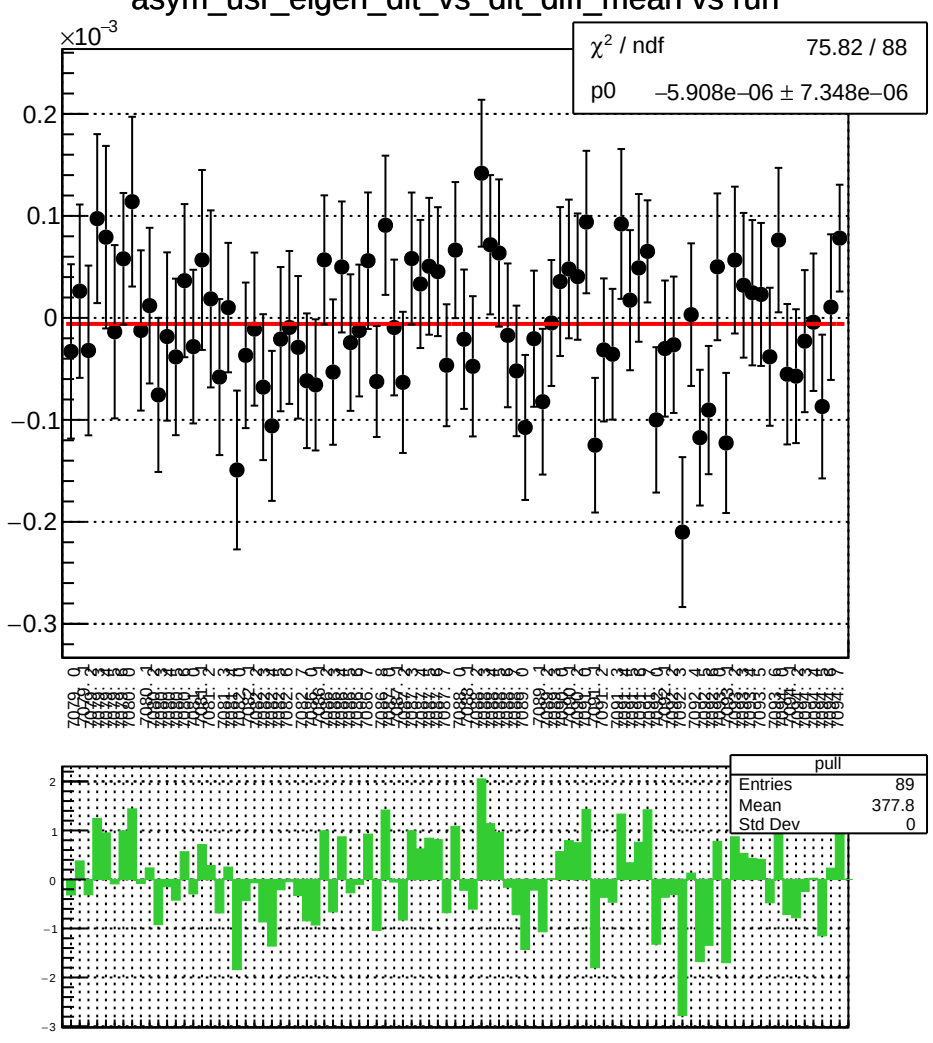

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.12 / 88
p0 0.1018 ± 0.09237
pull
Entries 89
Mean −62.36
Std Dev 0

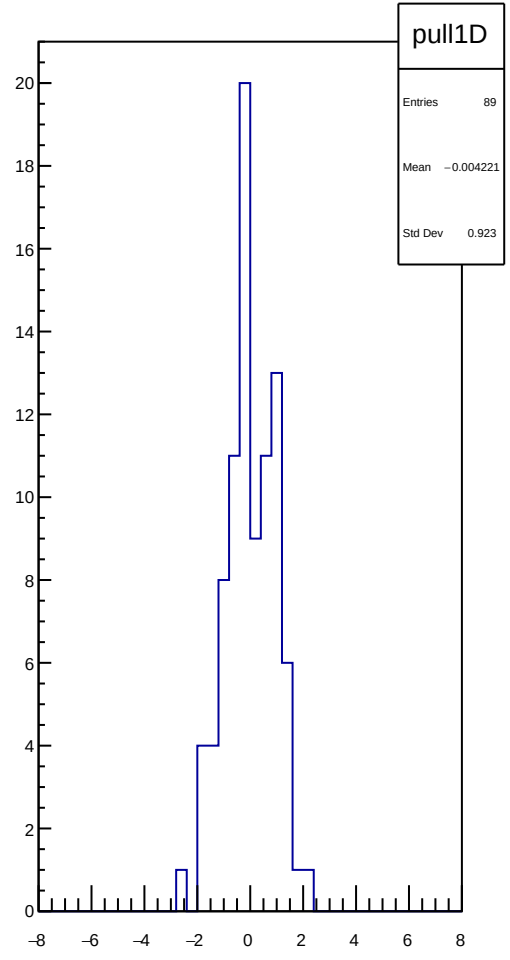

pull1D
Entries 89
Mean −0.03252
Std Dev 1.05

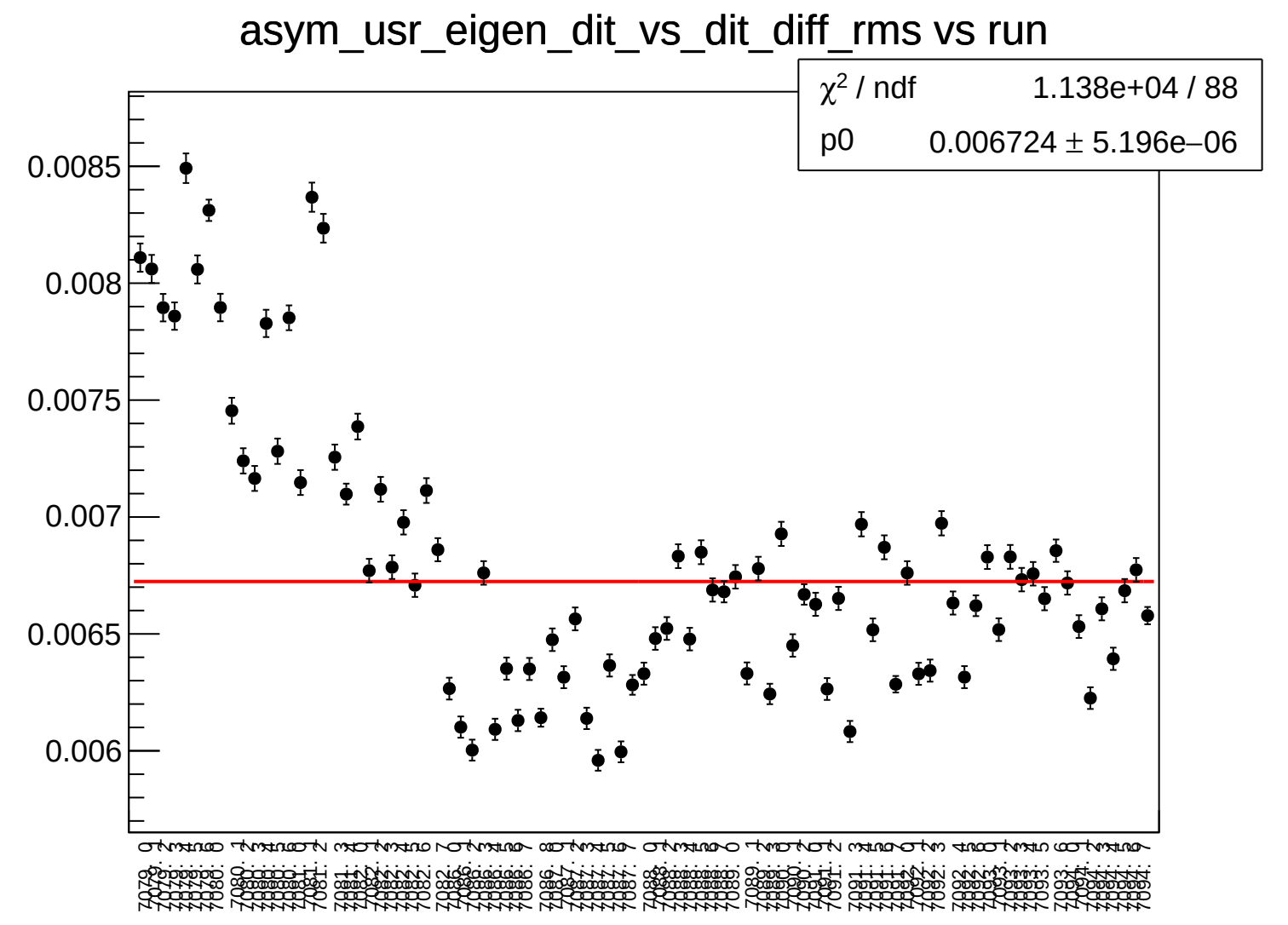

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.627e+04 / 88
p0 82.35 ± 0.06531
220
200
180
160
140
120
100
80
60

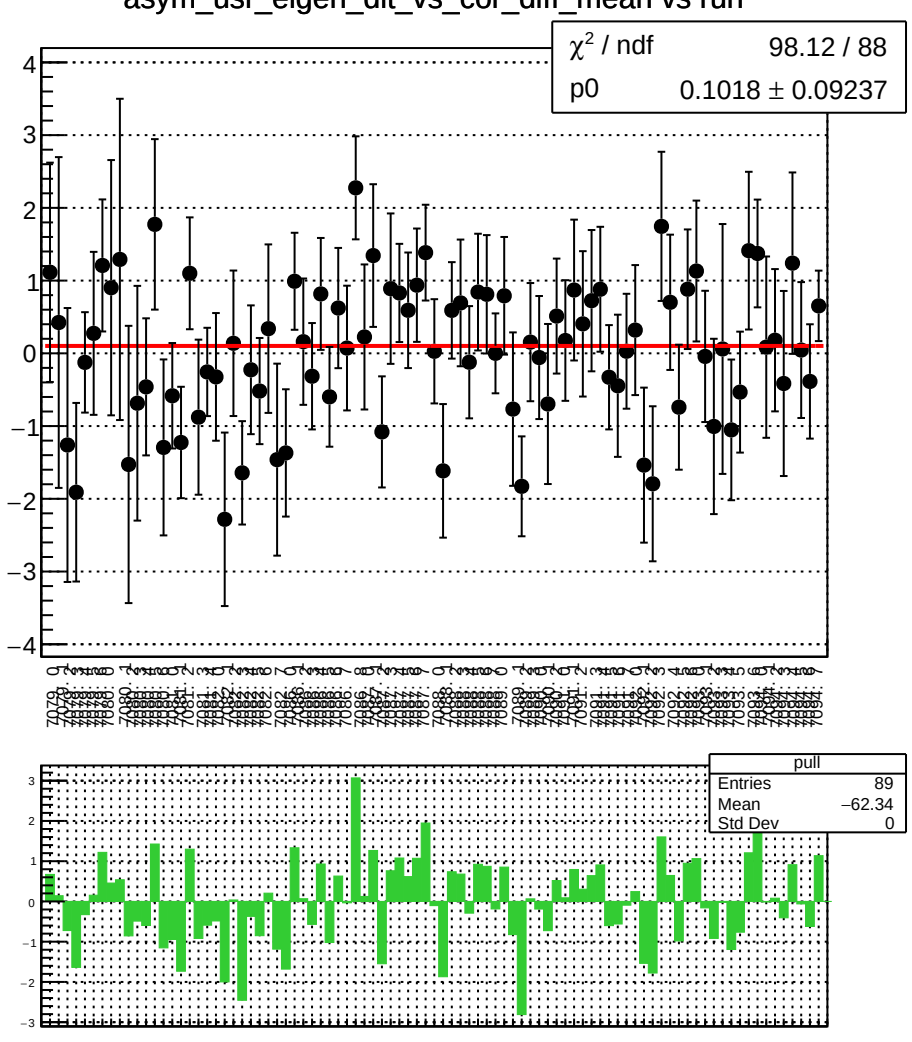

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.05 / 88
p0 −0.0645 ± 0.1263
pull
Entries 89
Mean 5.854
Std Dev 0
pull1D
Entries 89
Mean −0.02722
Std Dev 1.022

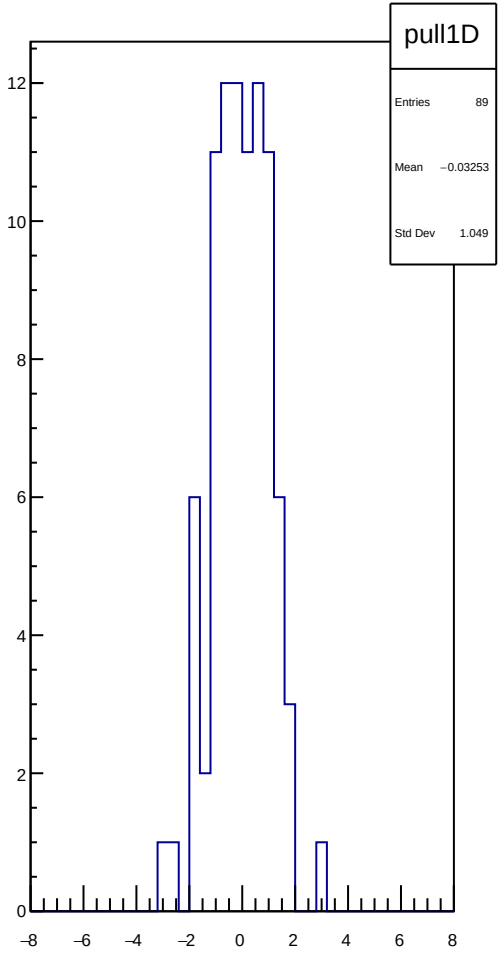

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.471e+04 / 88
p0 113.7 ± 0.08932
240
220
200
180
160
140
120
100
80

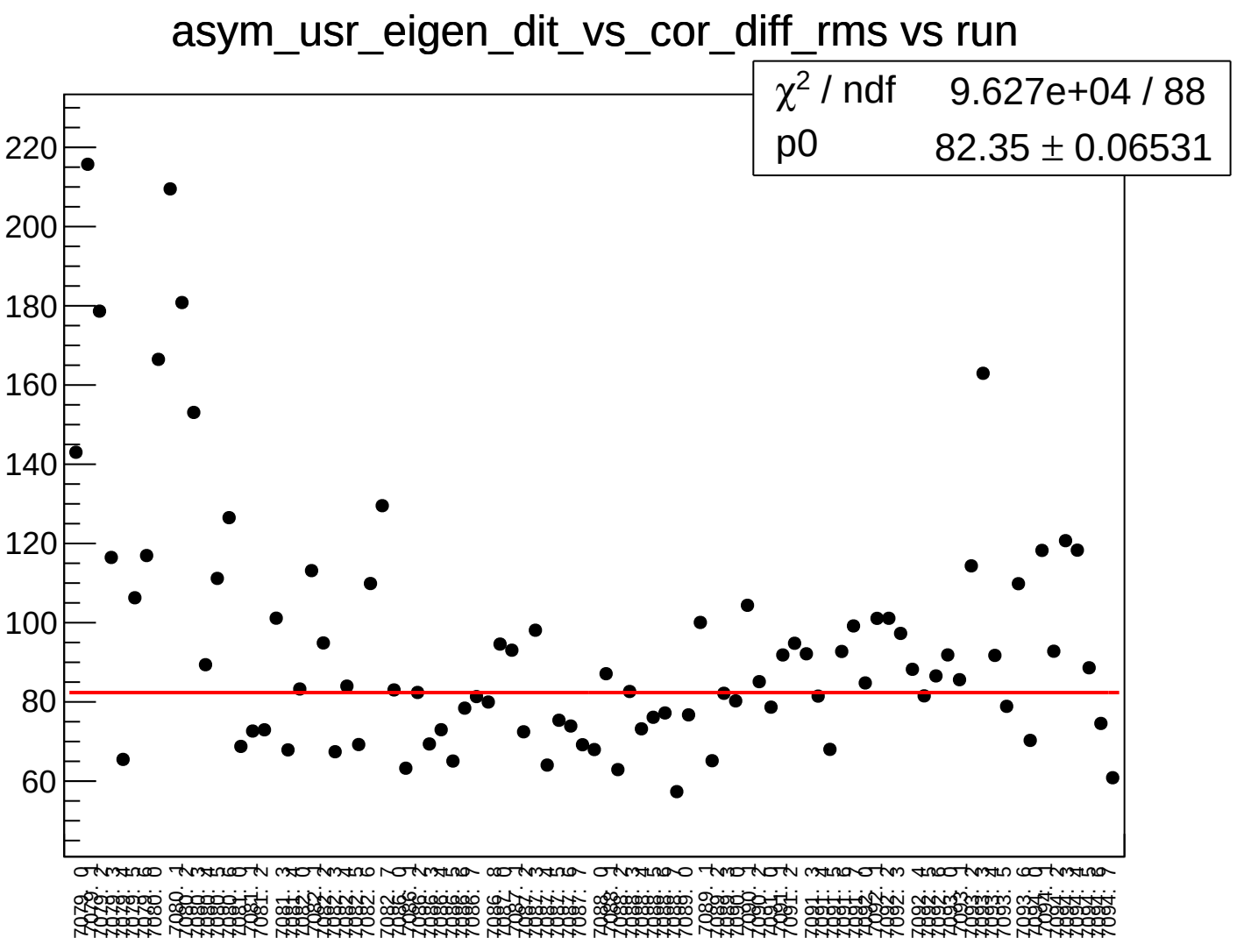

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.82 / 88
p0 −5.908e−06 ± 7.348e−06
pull
Entries 89
Mean 377.8
Std Dev 0

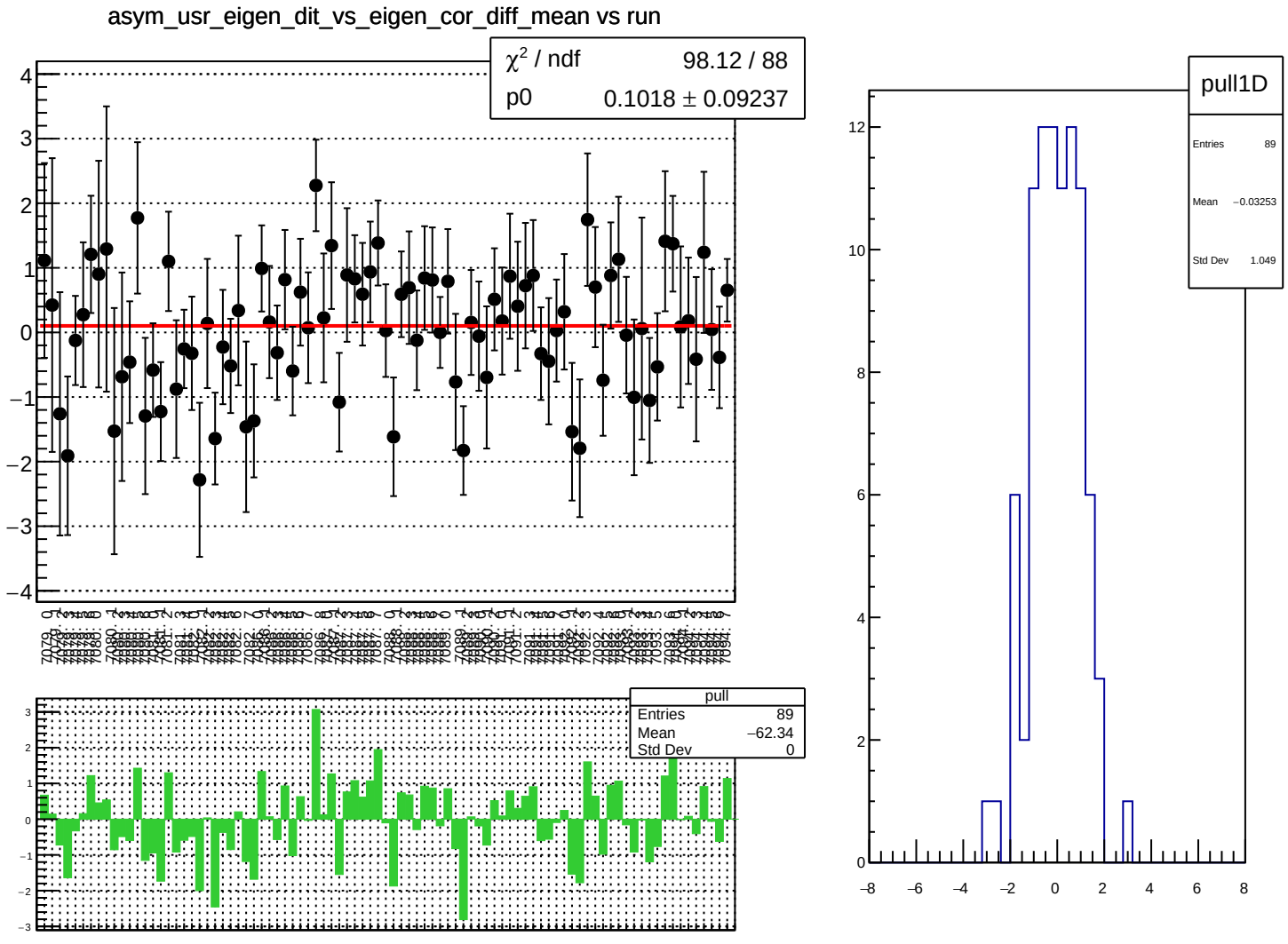

pull1D
Entries 89
Mean −0.004221
Std Dev 0.923

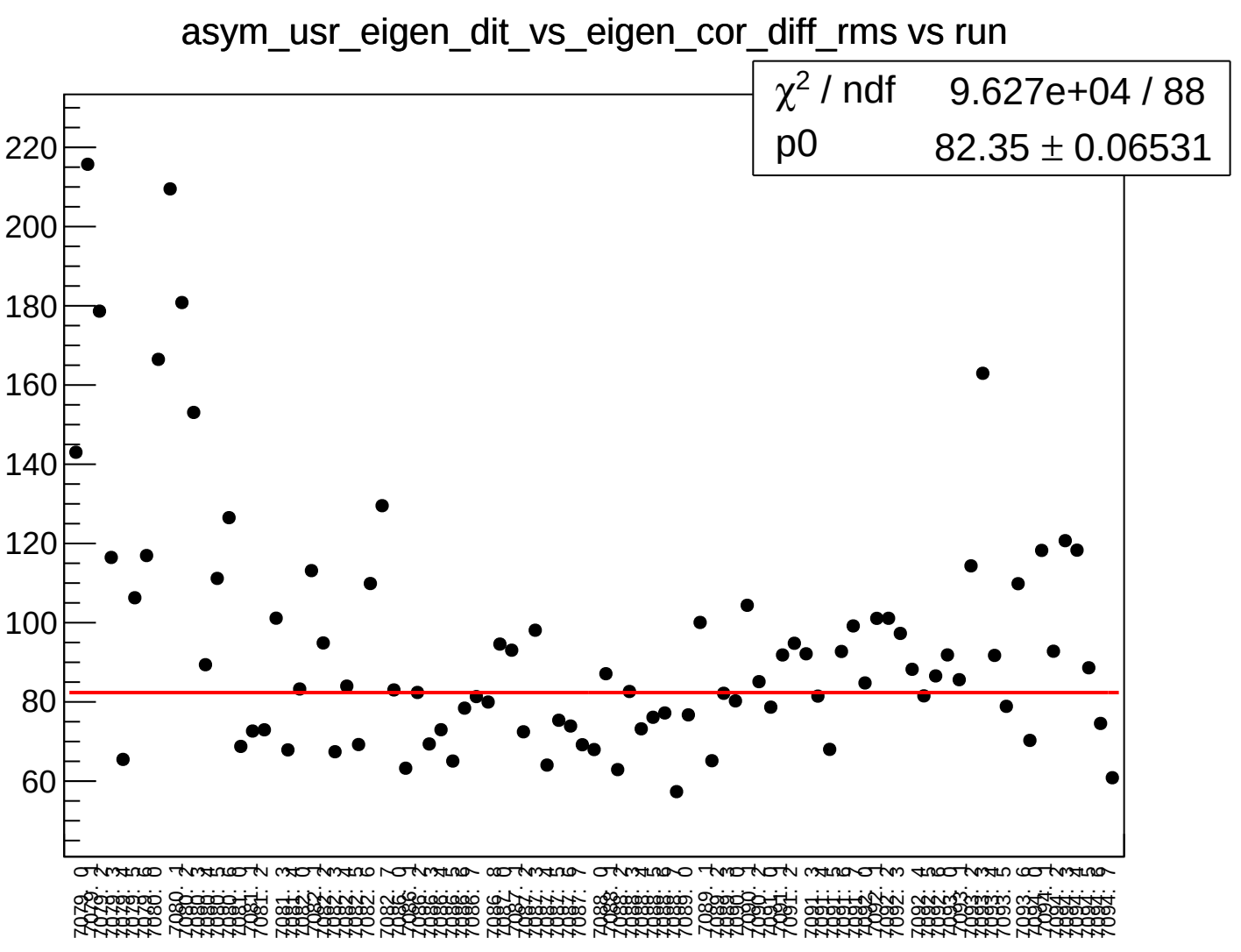

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.138e+04 / 88
p0 0.006724 ± 5.196e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

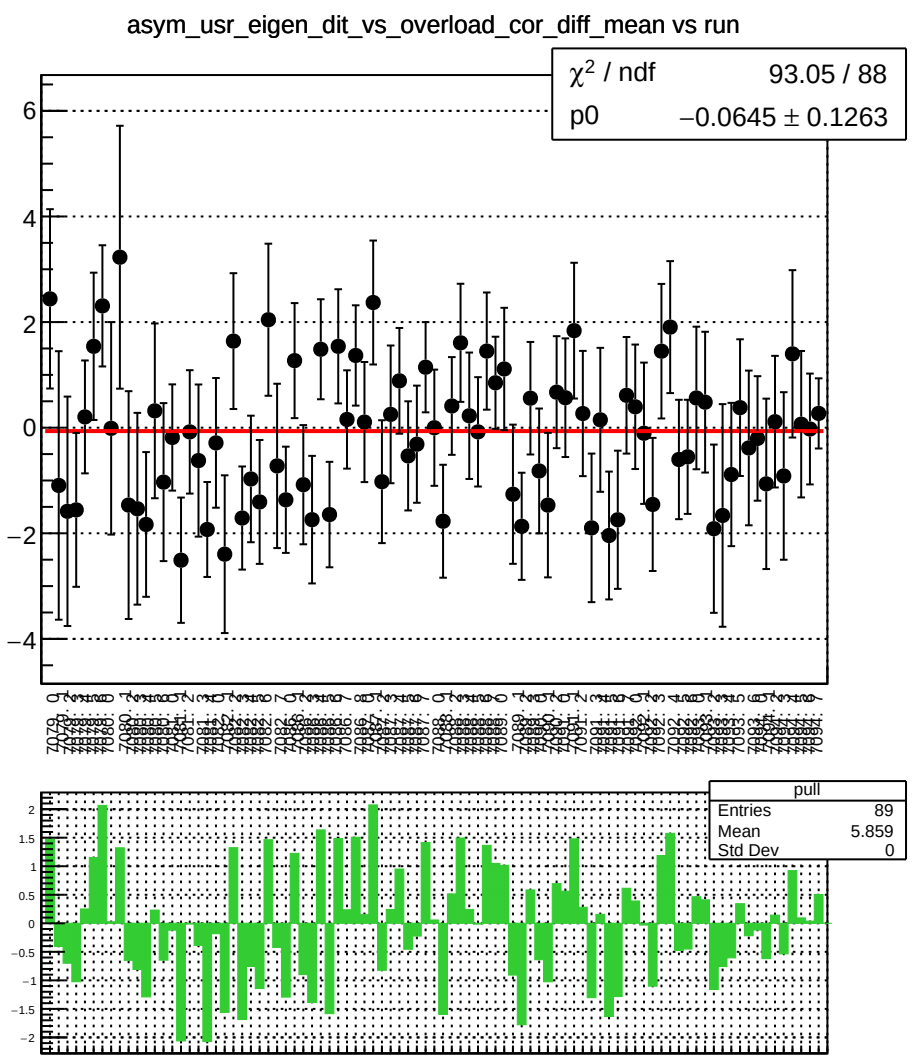

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.12 / 88
p0 0.1018 ± 0.09237
pull
Entries 89
Mean −62.34
Std Dev 0

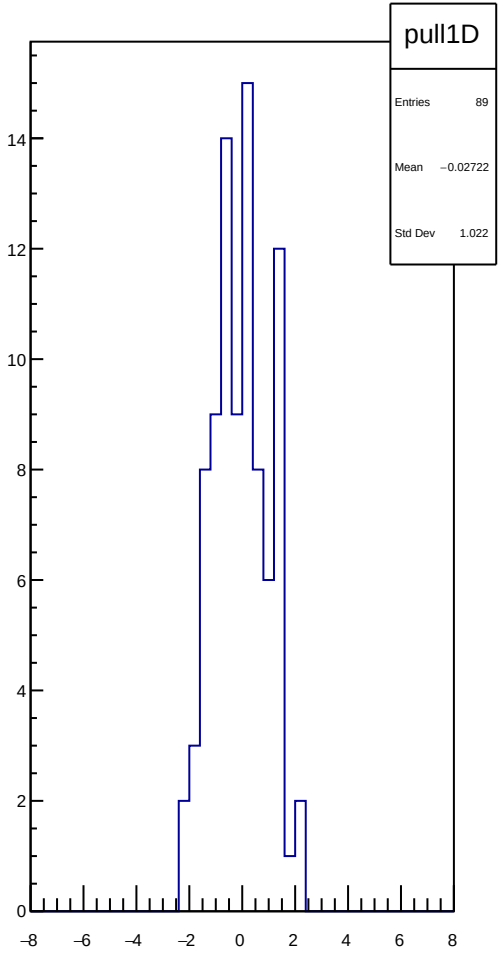

pull1D
Entries 89
Mean −0.03253
Std Dev 1.049

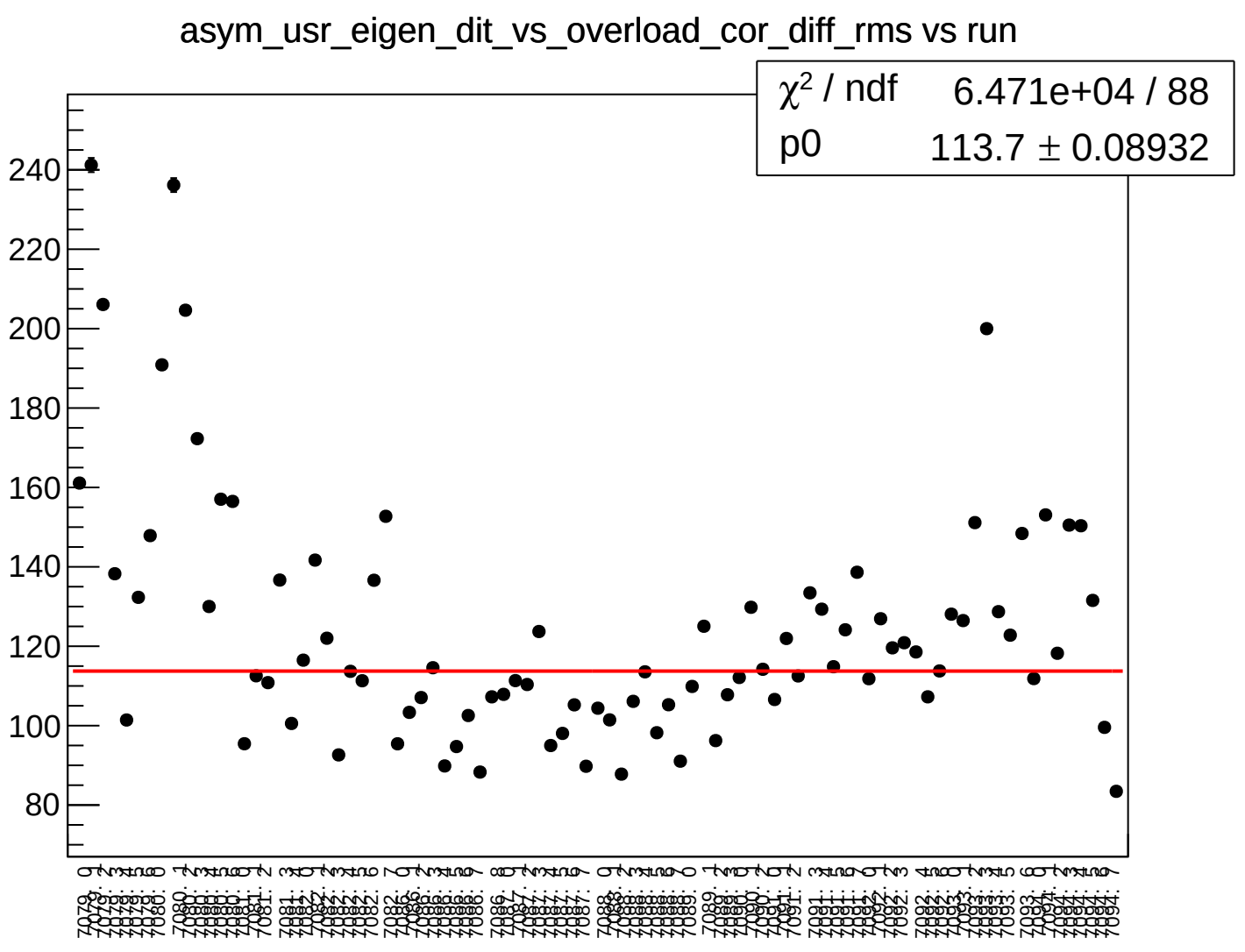

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.627e+04 / 88
p0 82.35 ± 0.06531
220
200
180
160
140
120
100
80
60

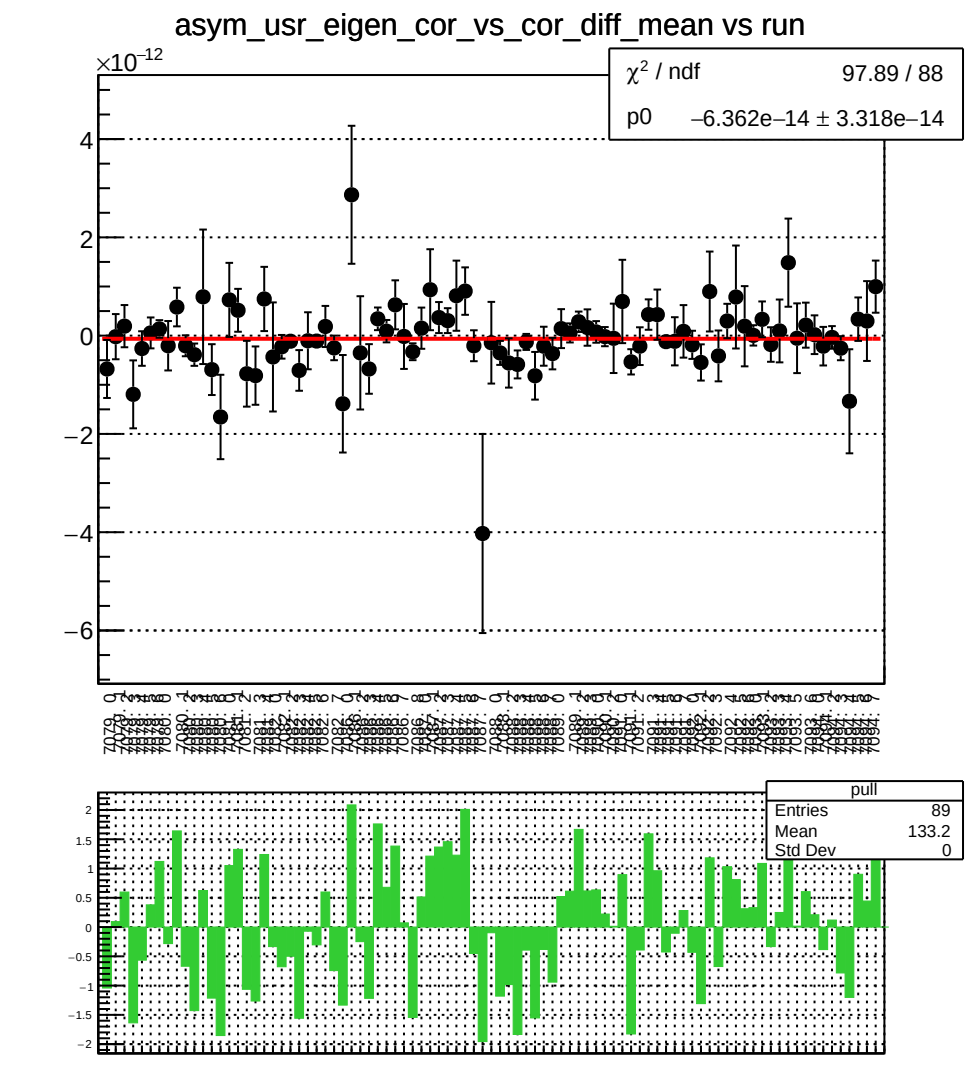

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.12 / 88
p0 0.1018 ± 0.09237
pull
Entries 89
Mean −62.34
Std Dev 0
pull1D
Entries 89
Mean −0.03253
Std Dev 1.049

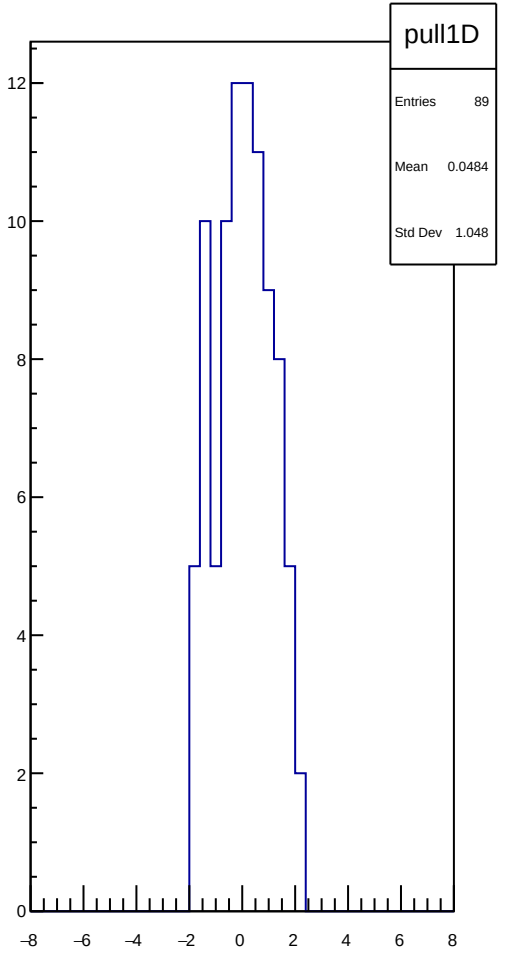

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.627e+04 / 88
p0 82.35 ± 0.06531
220
200
180
160
140
120
100
80
60

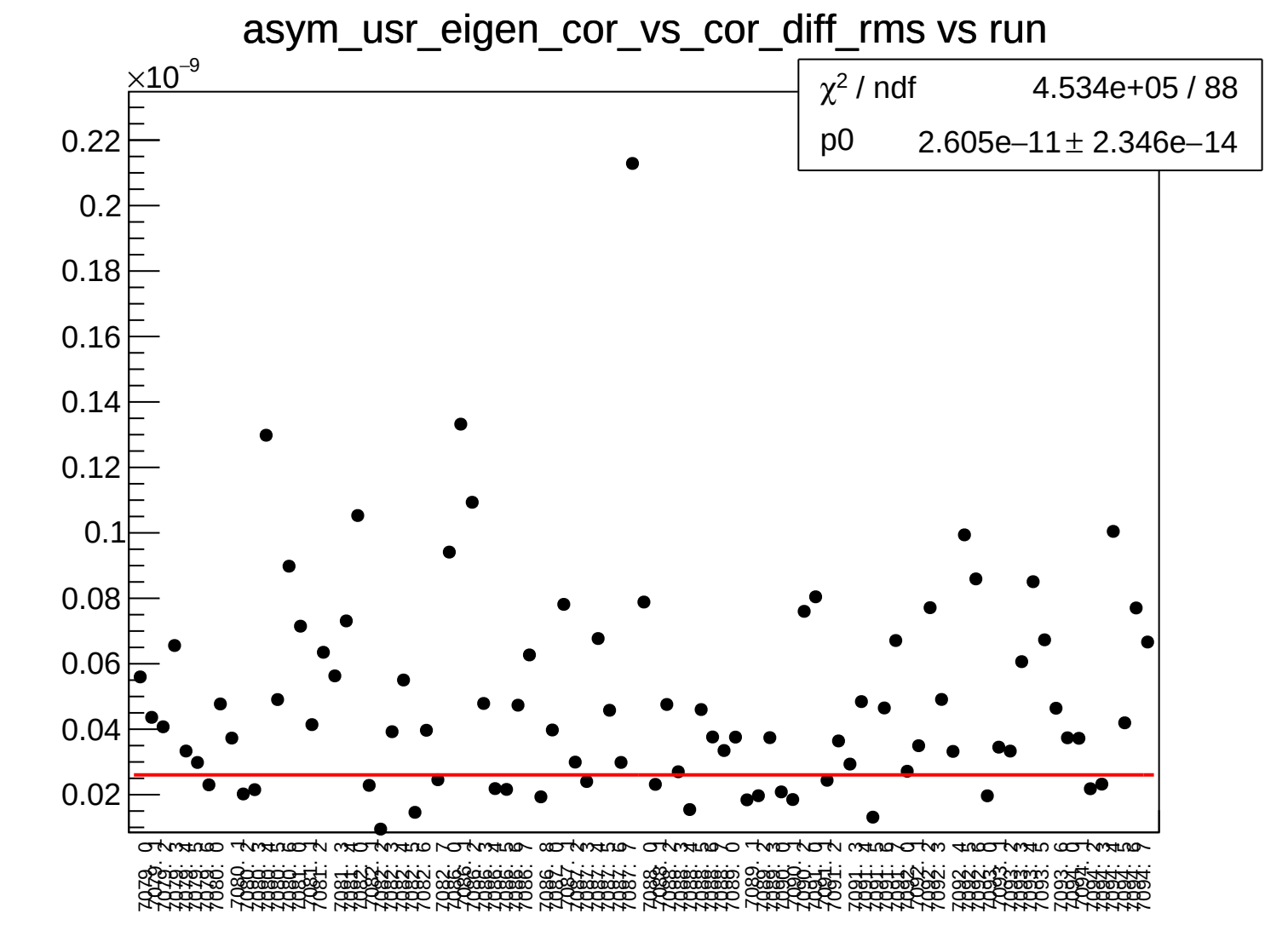

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.05 / 88
p0 −0.0645 ± 0.1263
pull
Entries 89
Mean 5.859
Std Dev 0

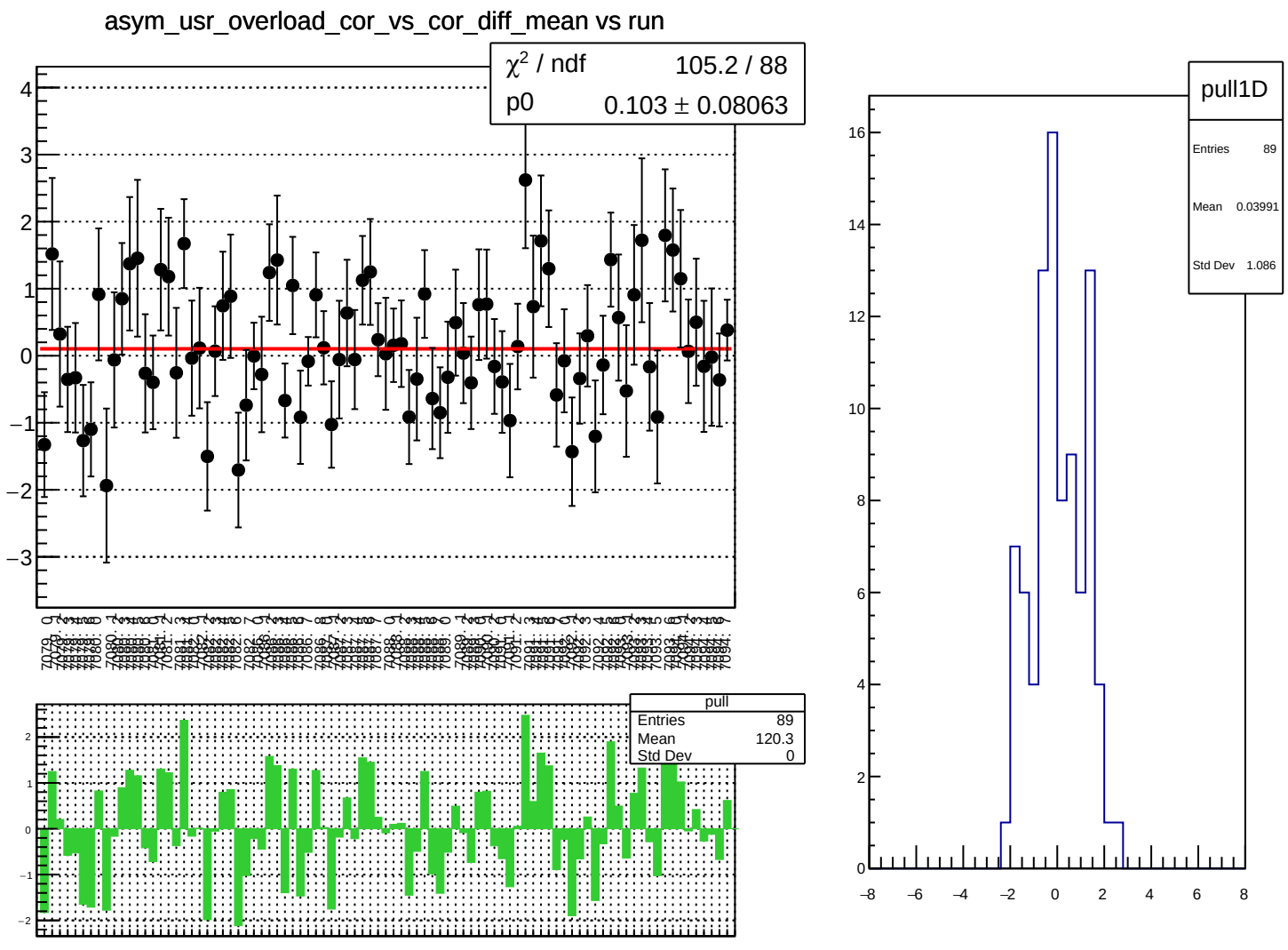

pull1D
Entries 89
Mean −0.02722
Std Dev 1.022

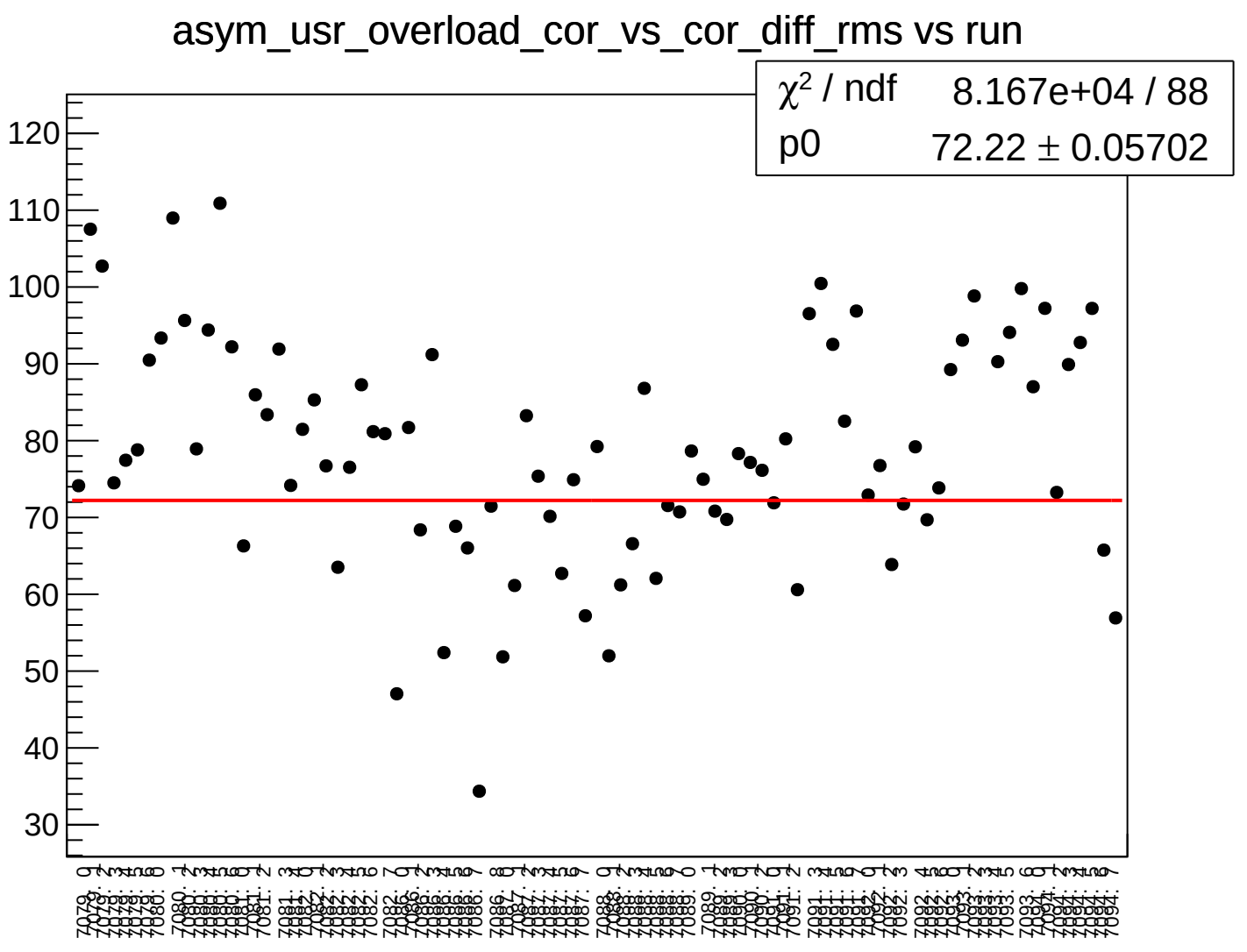

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.471e+04 / 88
p0 113.7 ± 0.08932
240
220
200
180
160
140
120
100
80

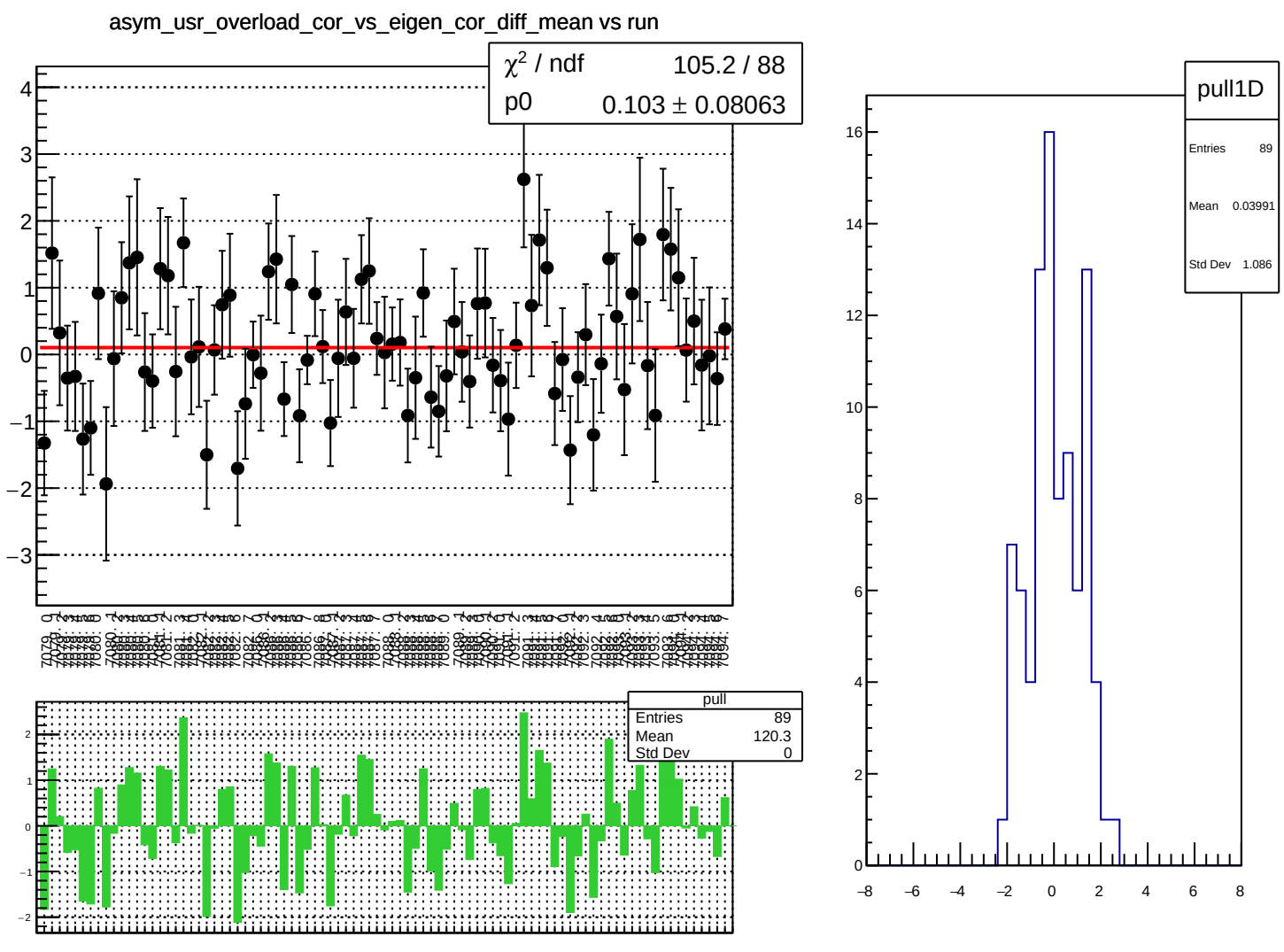

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.89 / 88
p0 −6.362e−14 ± 3.318e−14
pull
Entries 89
Mean 133.2
Std Dev 0

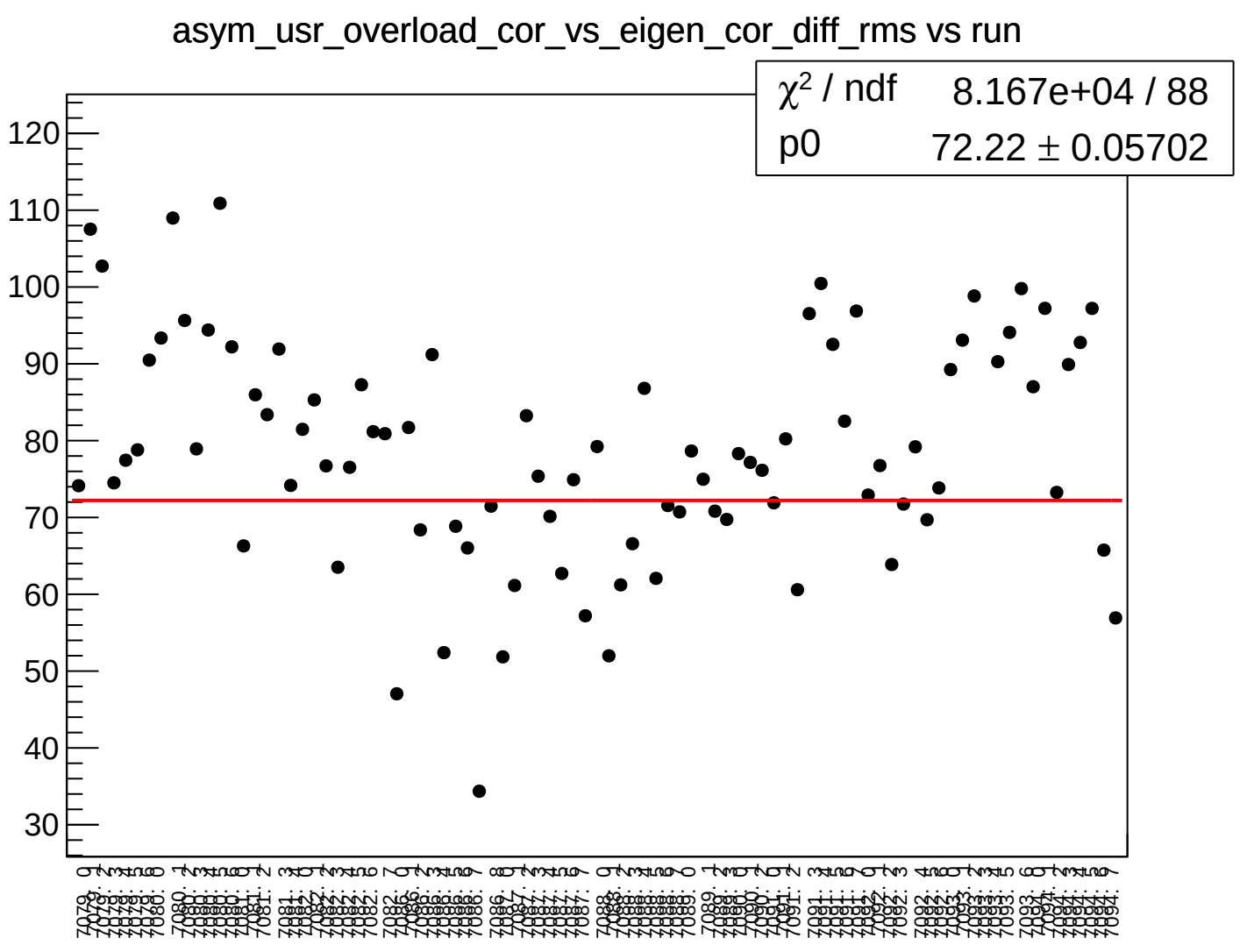

pull1D
Entries 89
Mean 0.0484
Std Dev 1.048

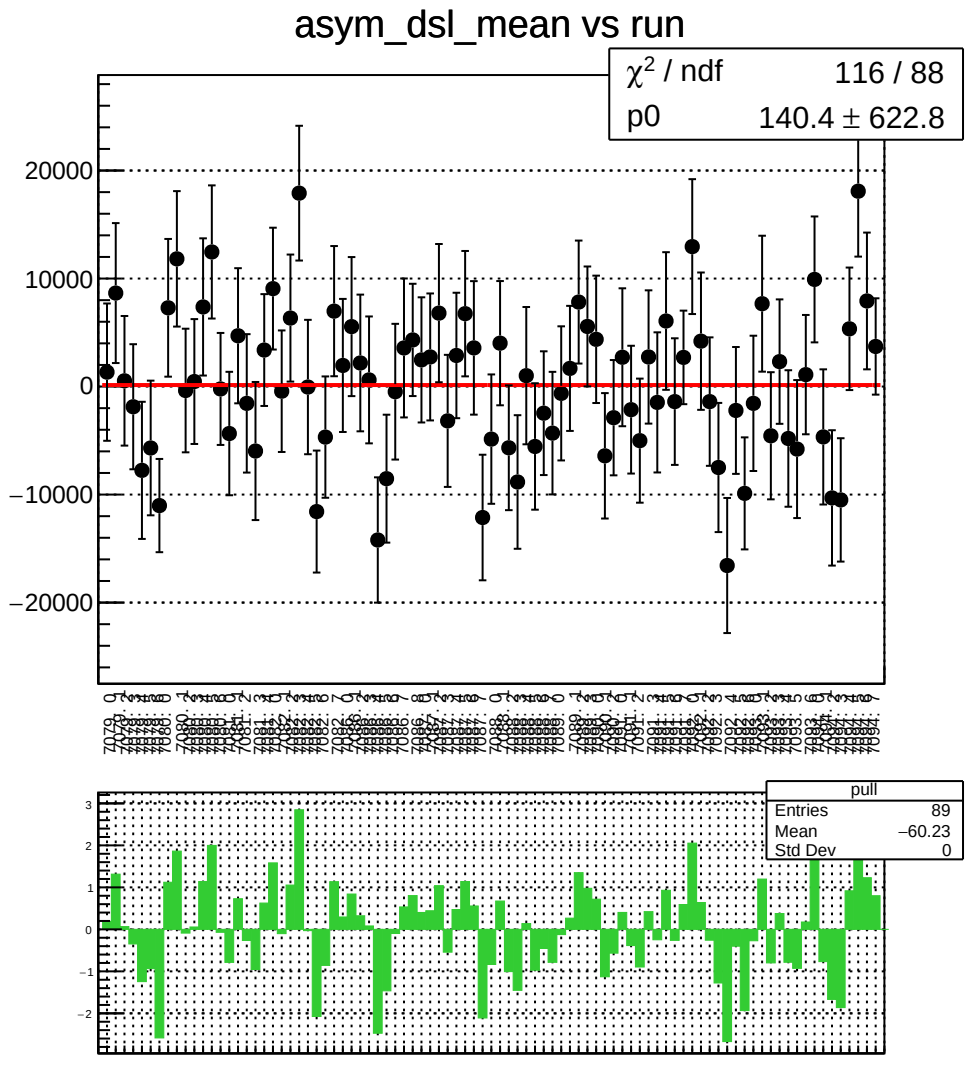

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.534e+05 / 88
p0 2.605e−11 ± 2.346e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

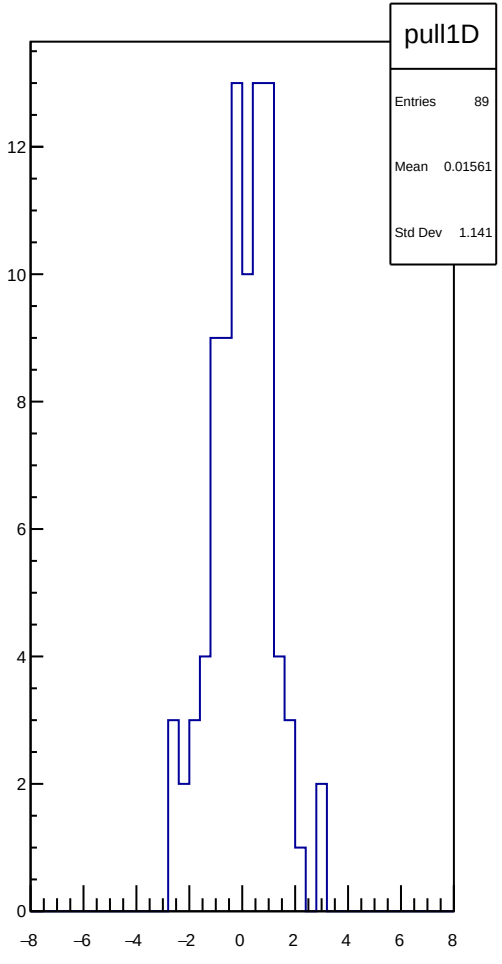

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 88
p0 0.103 ± 0.08063
pull
Entries 89
Mean 120.3
Std Dev 0
pull1D
Entries 89
Mean 0.03991
Std Dev 1.086

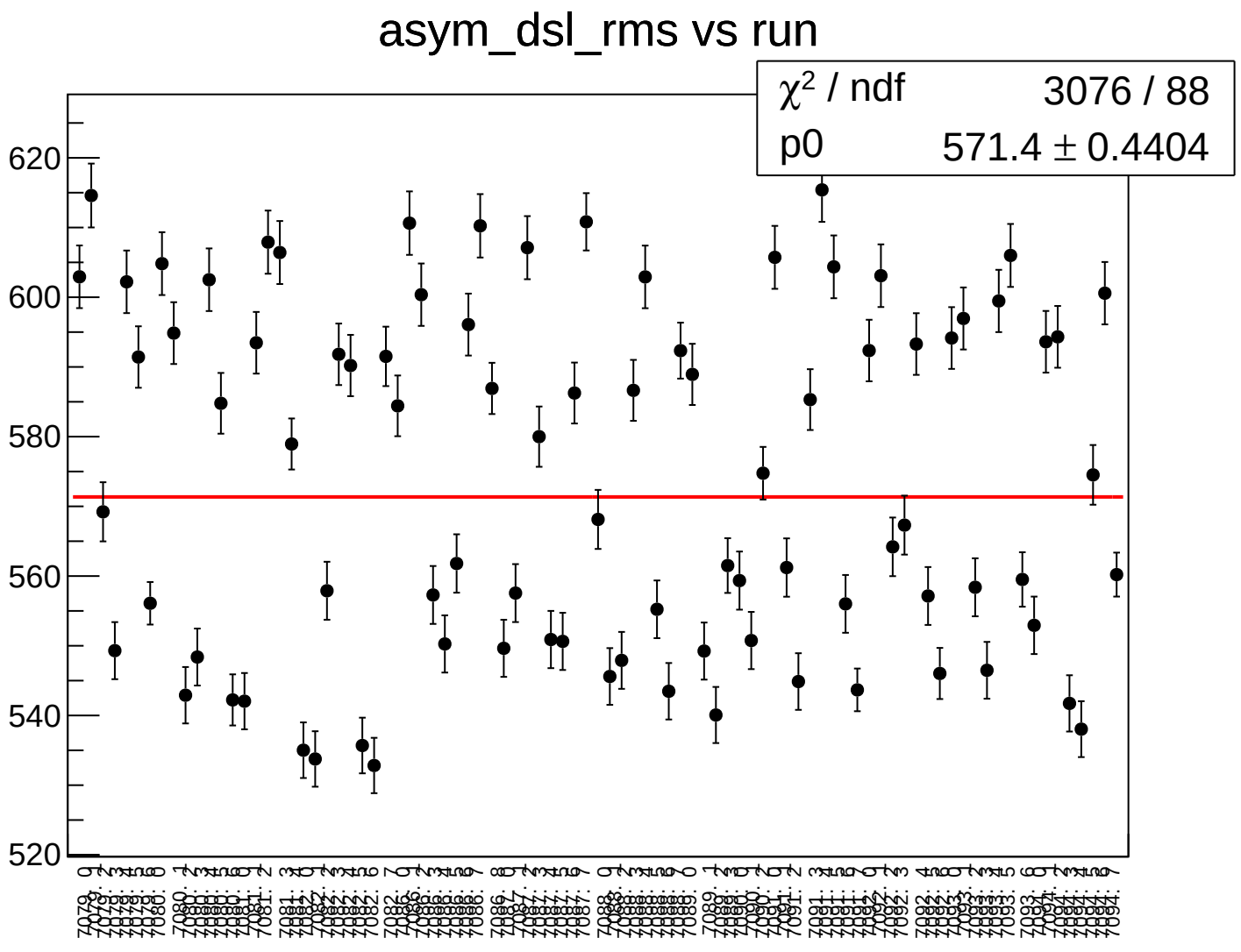

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 8.167e+04 / 88
p0 72.22 ± 0.05702
120
110
100
90
80
70
60
50
40
30

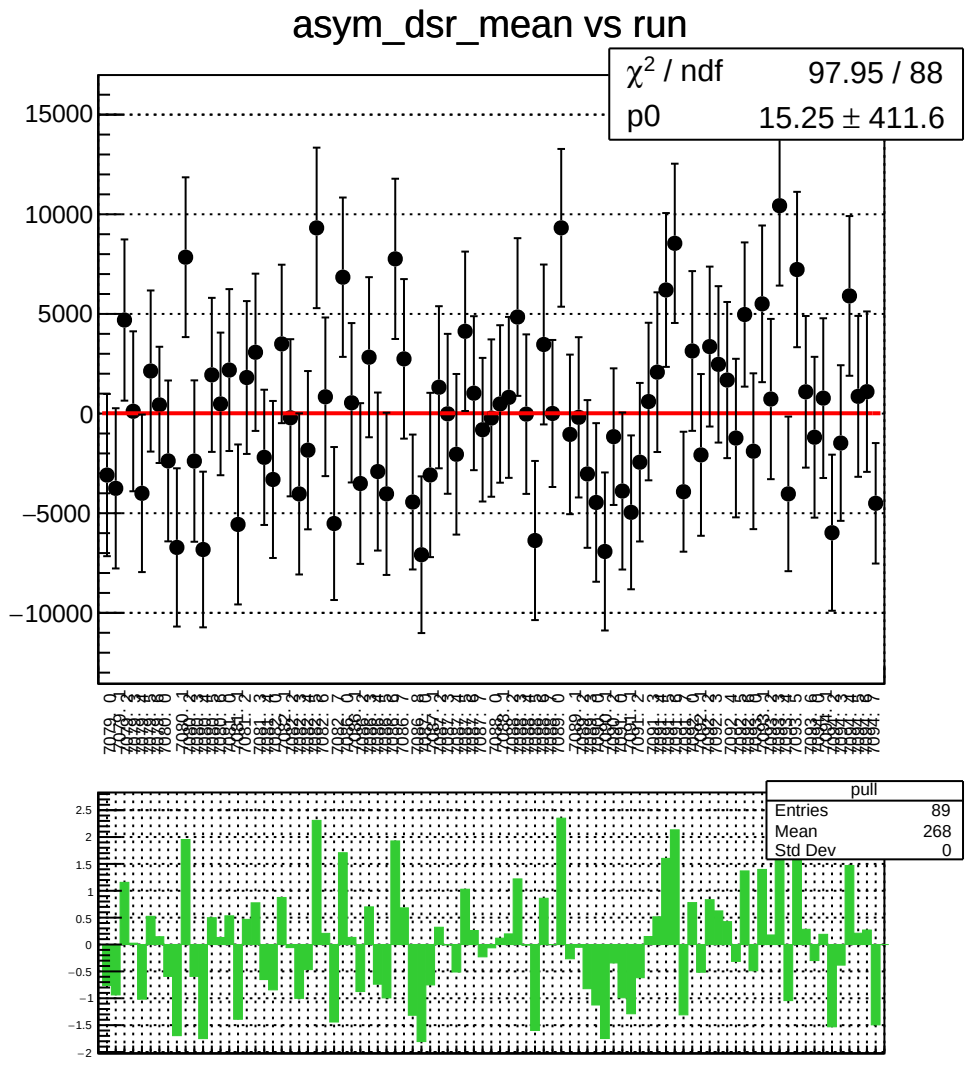

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 88
p0 0.103 ± 0.08063
pull
Entries 89
Mean 120.3
Std Dev 0
pull1D
Entries 89
Mean 0.03991
Std Dev 1.086

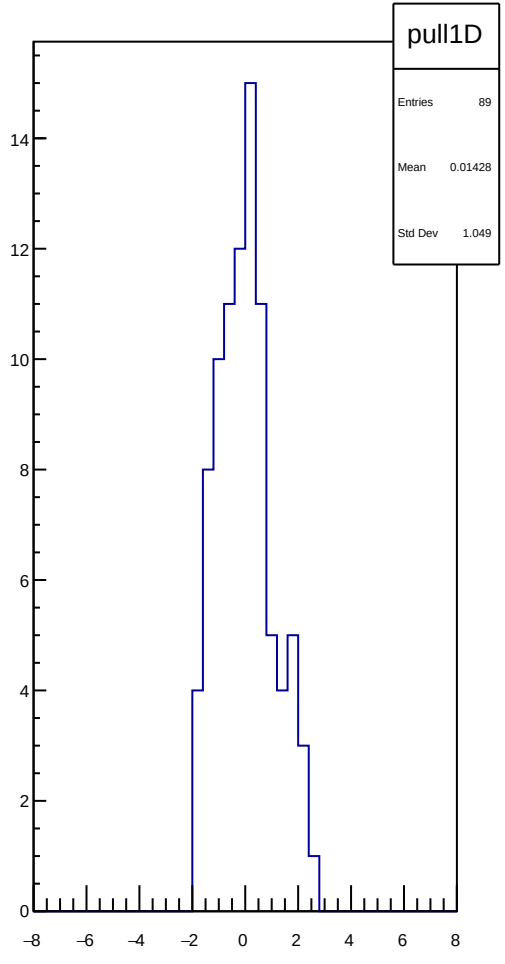

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.167e+04 / 88
p0 72.22 ± 0.05702
120
110
100
90
80
70
60
50
40
30

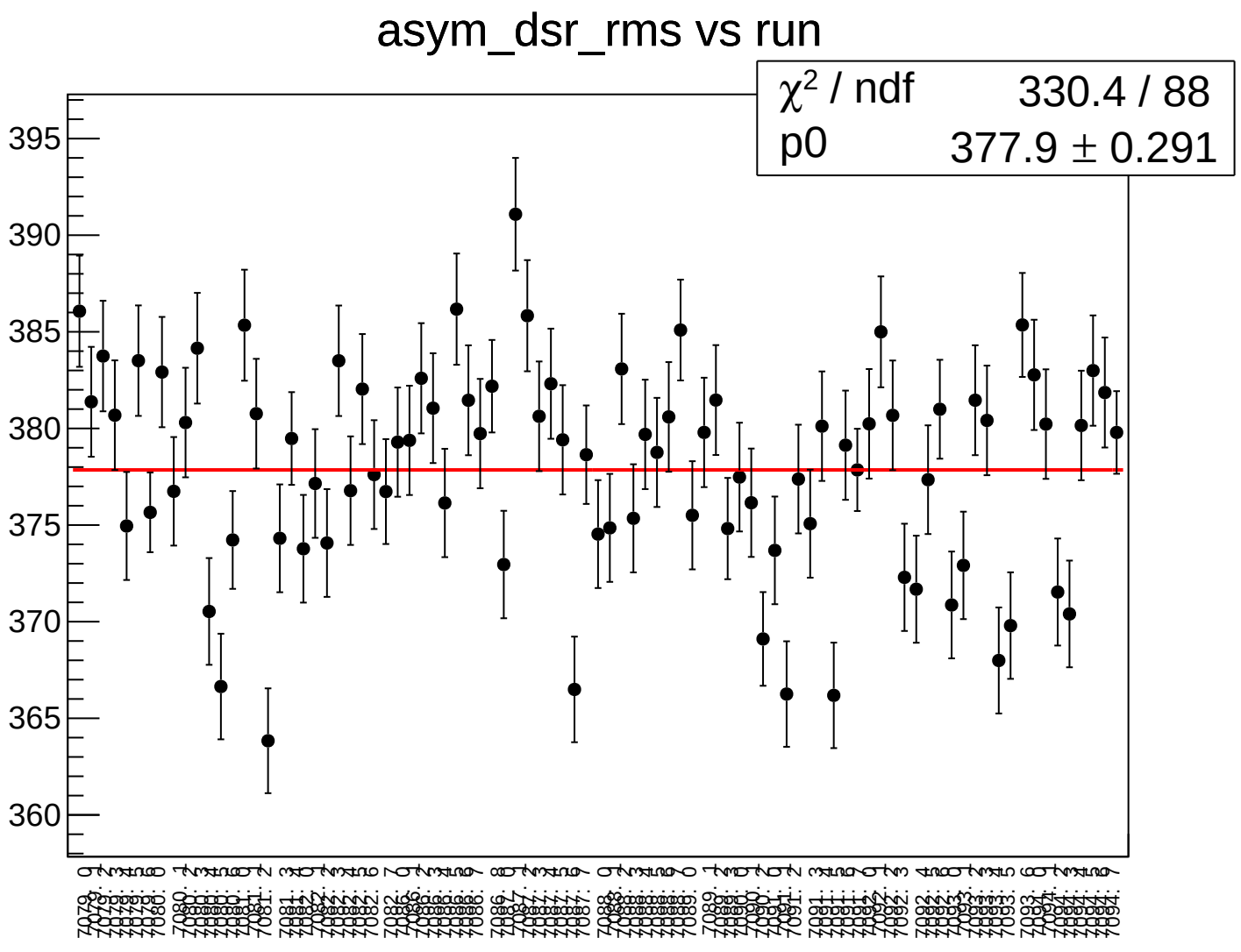

asym_dsl_mean vs run
χ^2 / ndf 116 / 88
p0 140.4 ± 622.8
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −60.23
Std Dev 0
3
2
1
0
−1
−2

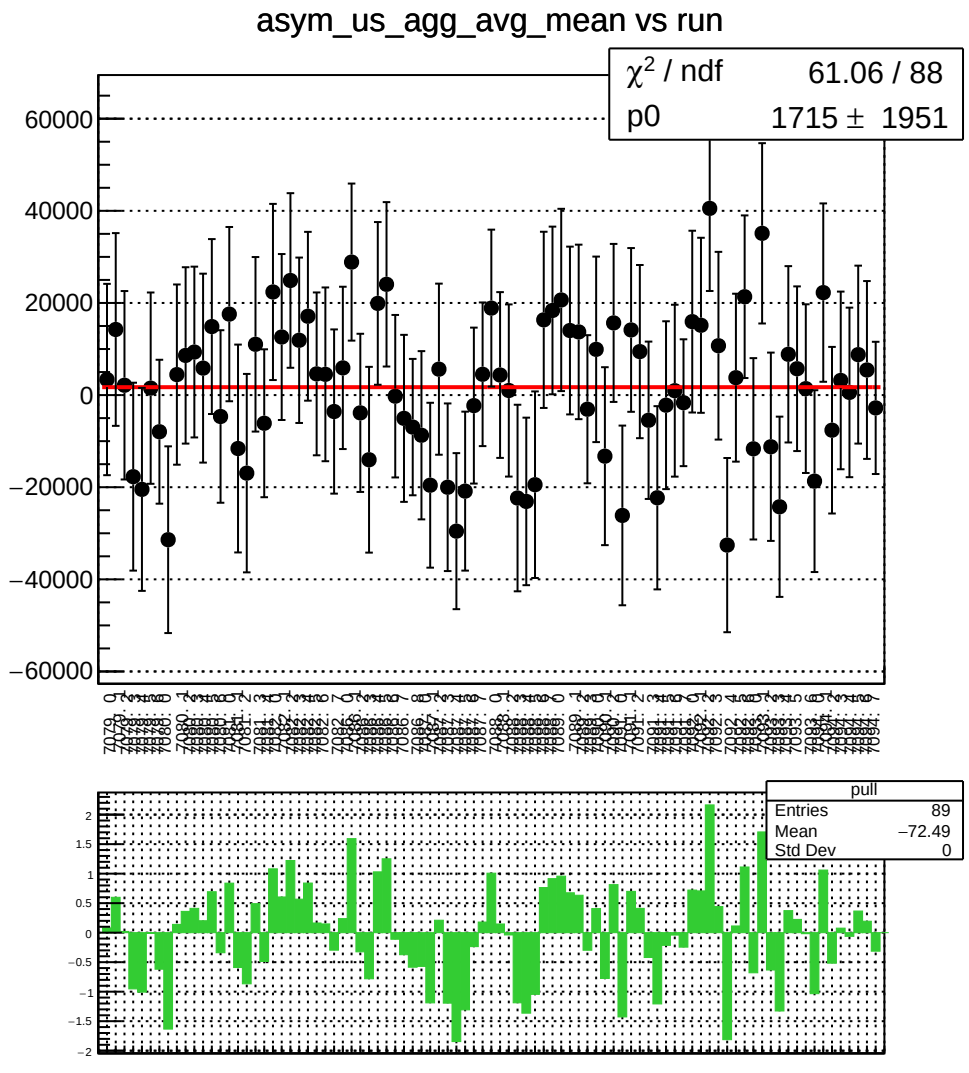

pull1D
Entries 89
Mean 0.01561
Std Dev 1.141
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

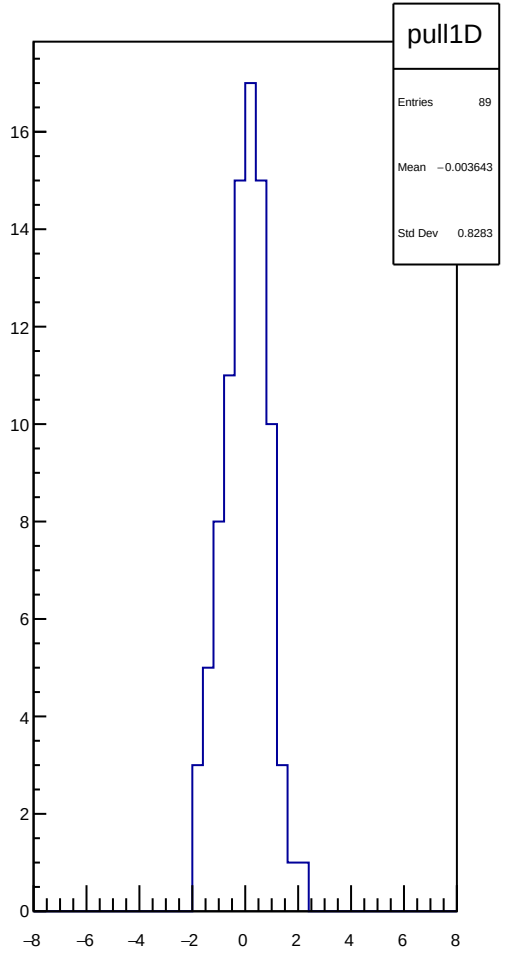

asym_dsl_rms vs run
χ² / ndf 3076 / 88
p0 571.4 ± 0.4404
620
600
580
560
540
520


asym_dsr_mean vs run
χ² / ndf 97.95 / 88
p0 15.25 ± 411.6
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 268
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean 0.01428
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_rms vs run
χ^2 / ndf 330.4 / 88
p0 377.9 ± 0.291
395
390
385
380
375
370
365
360


asym_us_agg_avg_mean vs run
χ² / ndf 61.06 / 88
p0 1715 ± 1951
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −72.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean −0.003643
Std Dev 0.8283
16
14
12
10
8
6
4
2
0
−8
−6
−4
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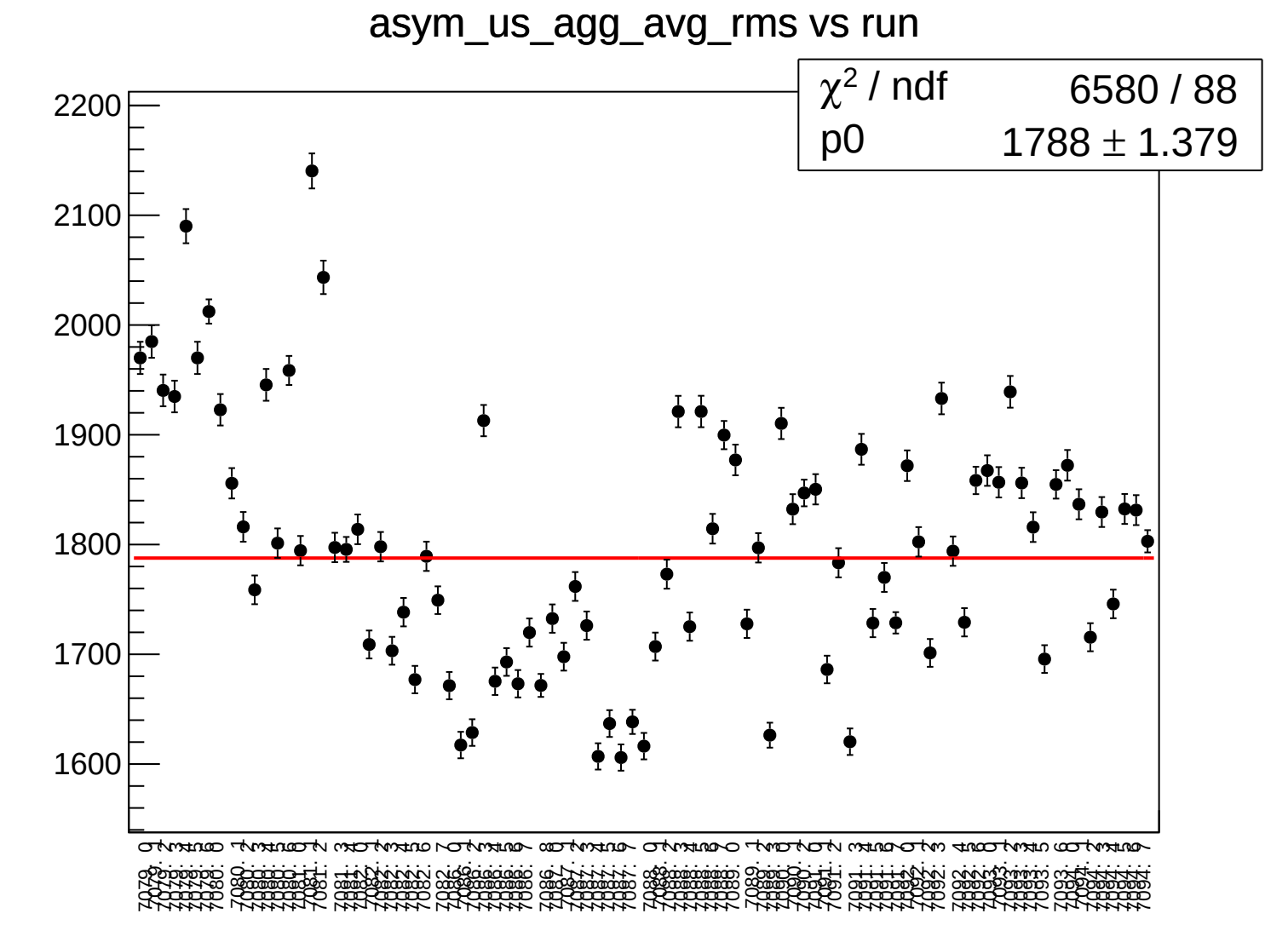
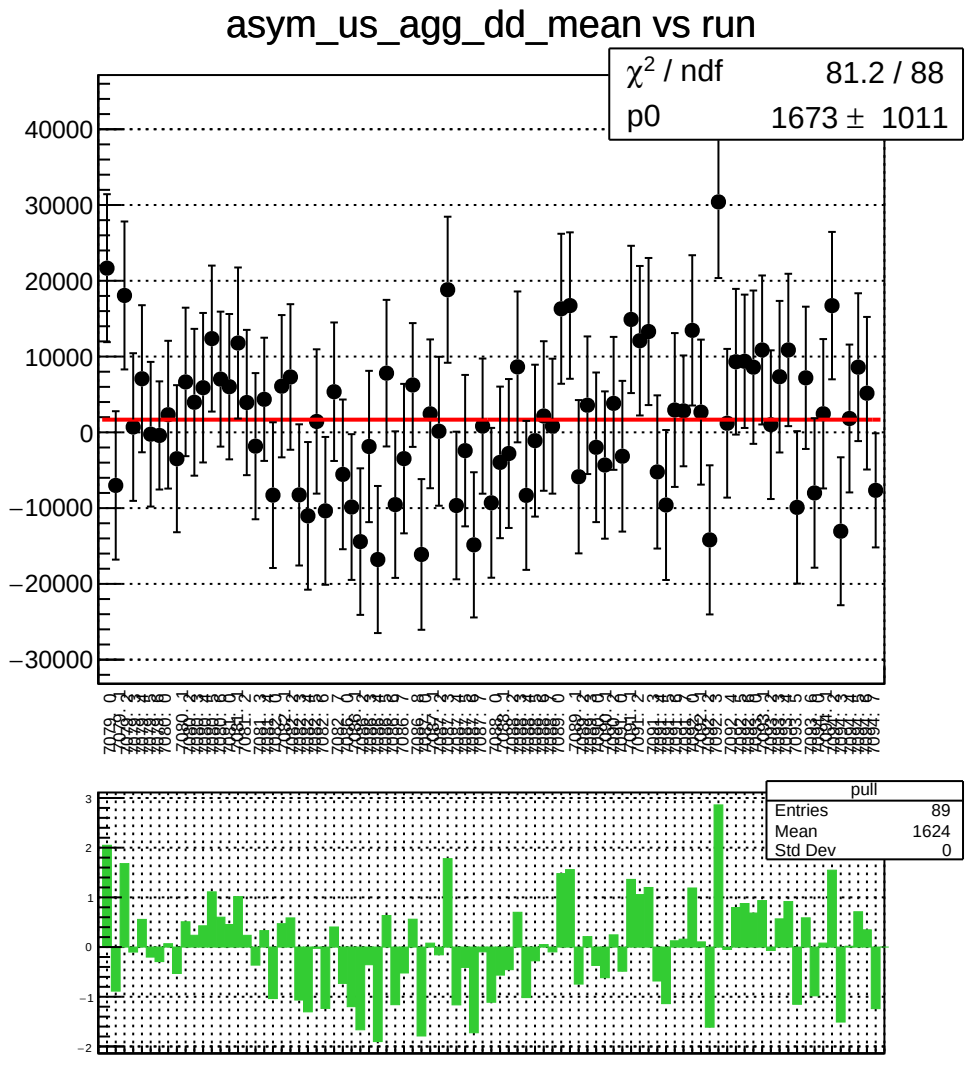
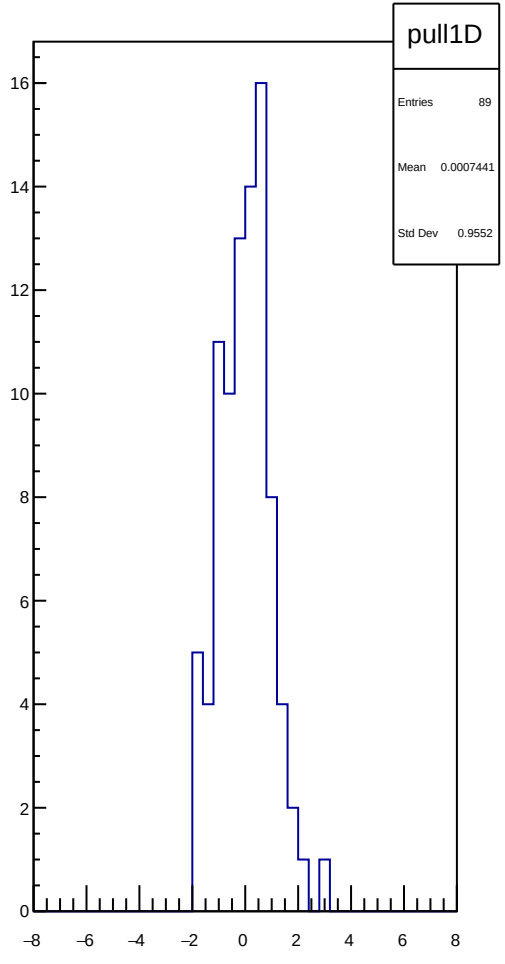
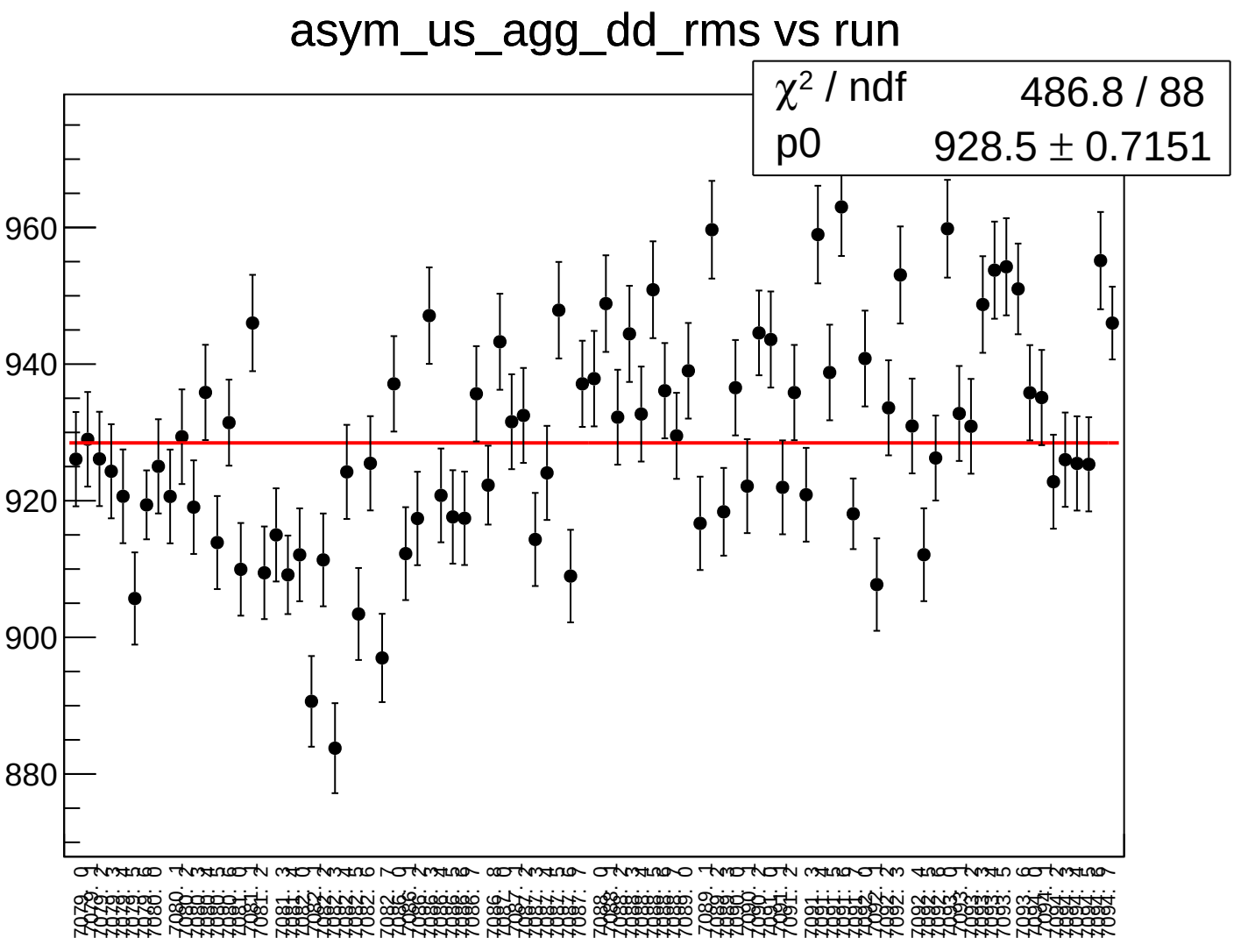
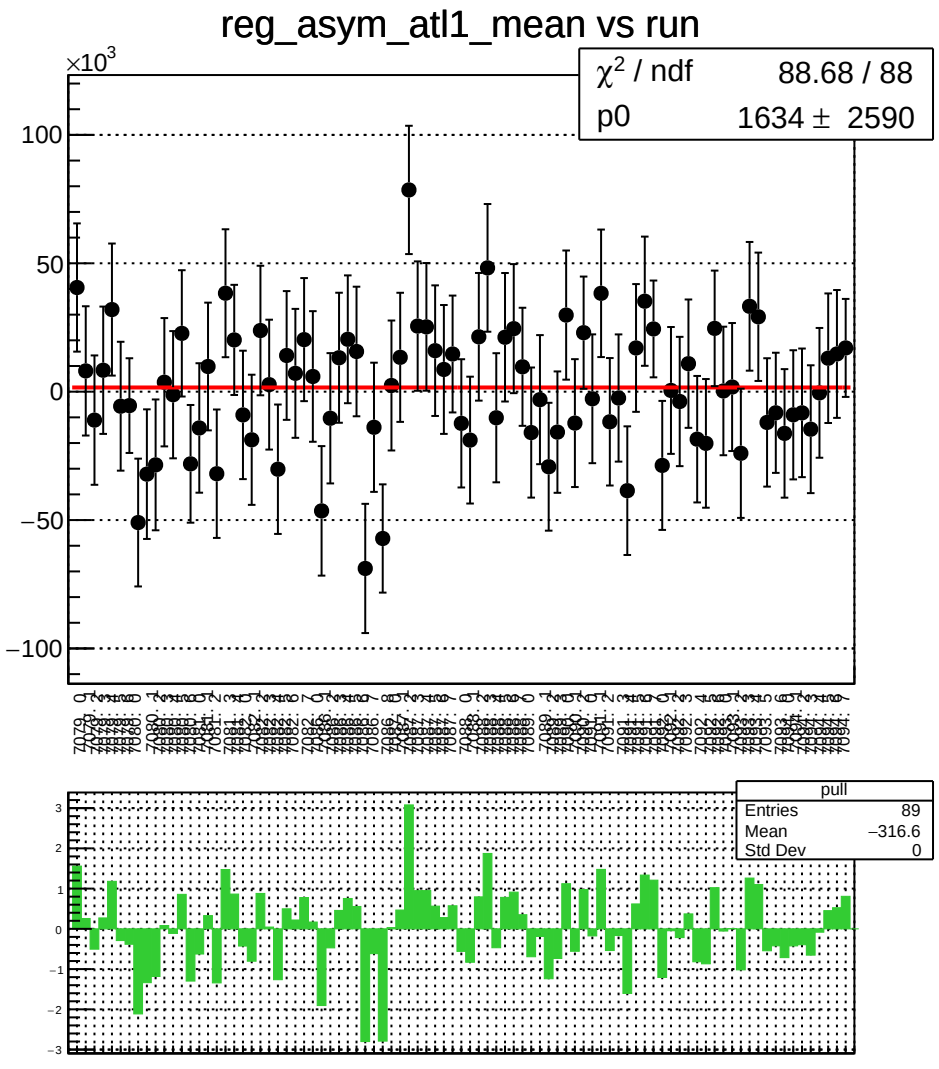
0
2
4
6
8

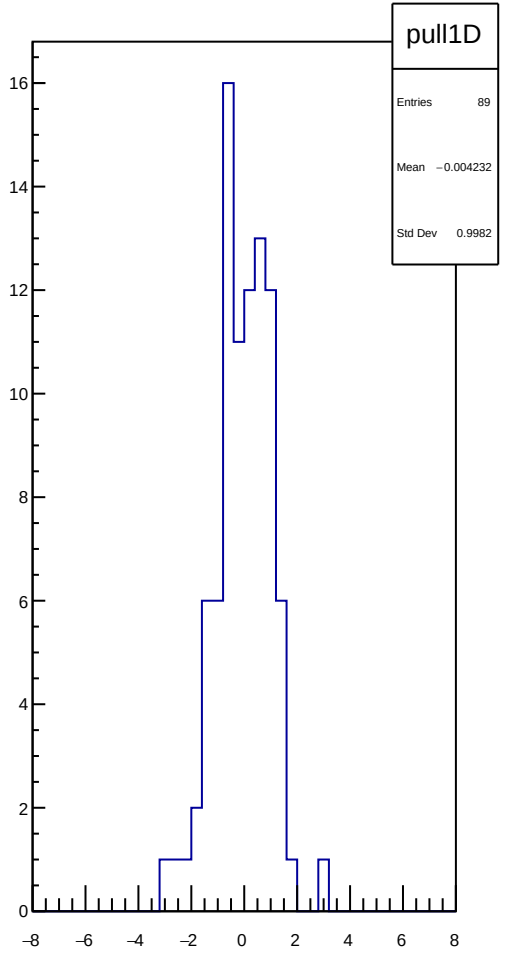

asym_us_agg_avg_rms vs run
χ² / ndf 6580 / 88
p0 1788 ± 1.379
2200
2100
2000
1900
1800
1700
1600

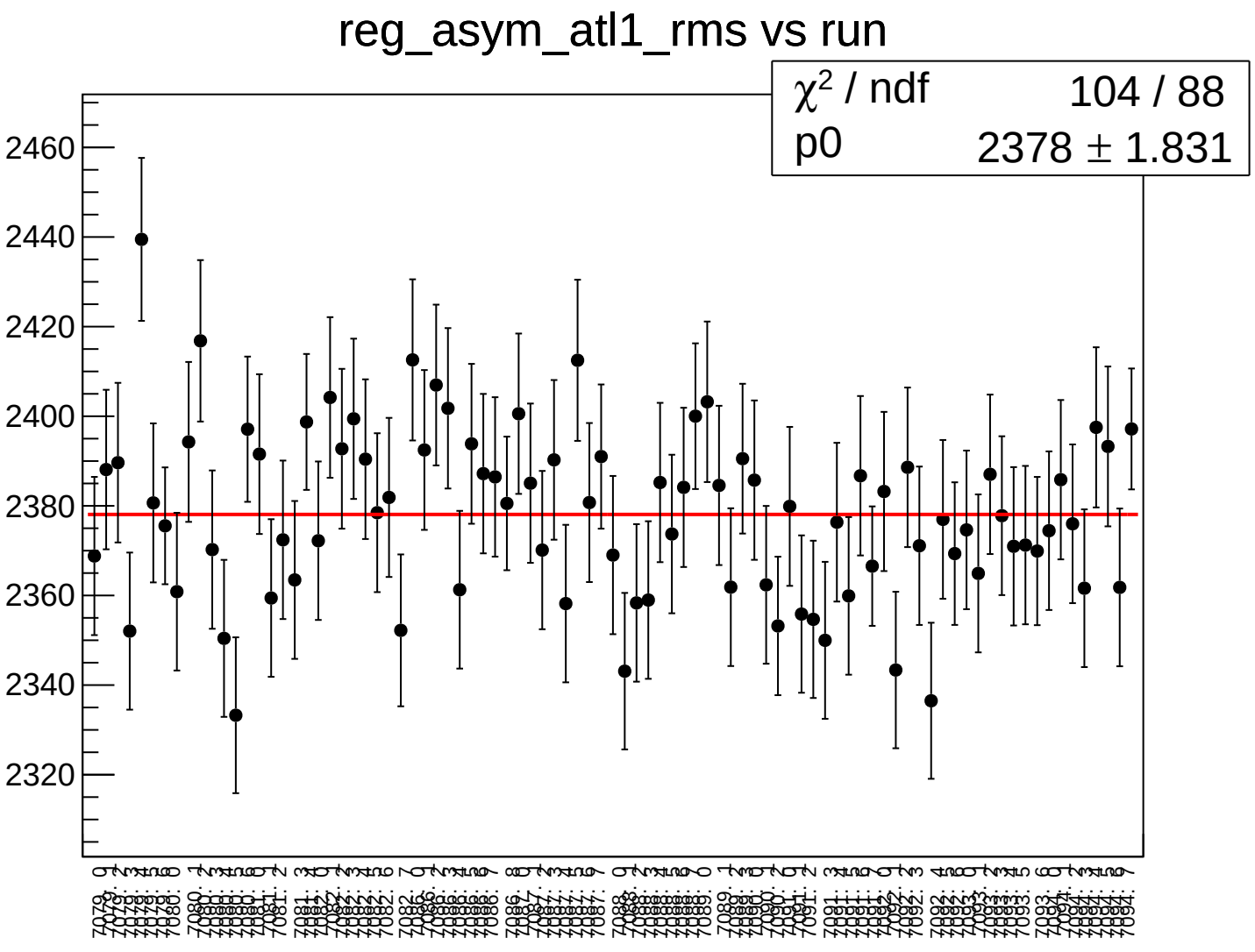

asym_us_agg_dd_mean vs run
χ^2 / ndf 81.2 / 88
p0 1673 ± 1011
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1624
Std Dev 0
3
2
1
0
−1
−2

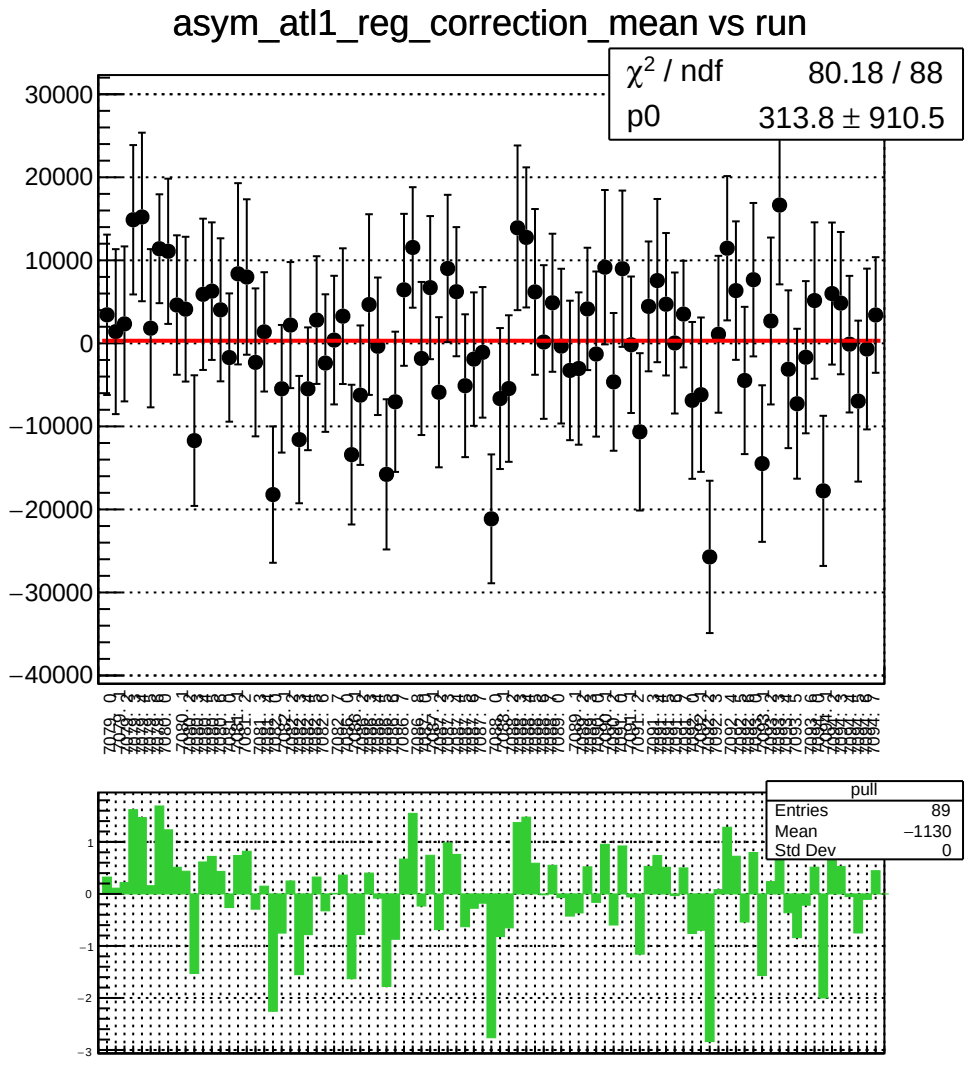

pull1D
Entries 89
Mean 0.0007441
Std Dev 0.9552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

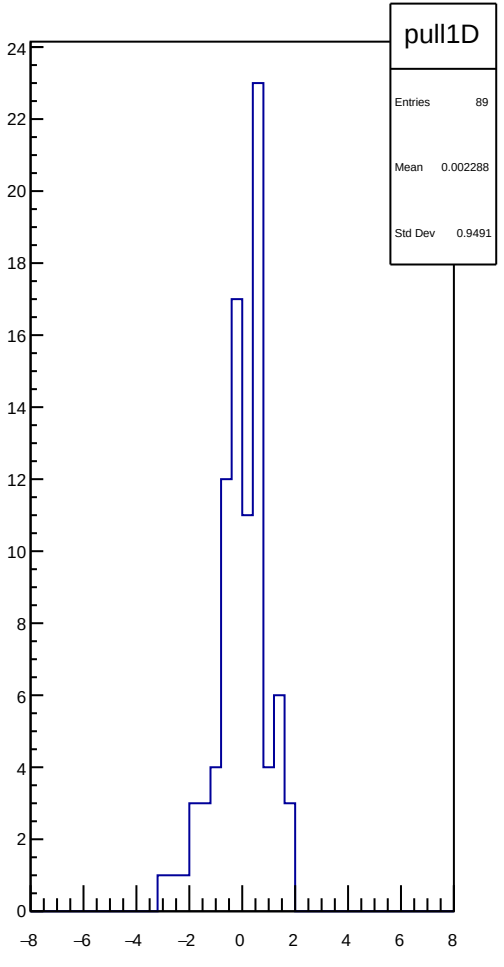

asym_us_agg_dd_rms vs run
χ² / ndf 486.8 / 88
p0 928.5 ± 0.7151
960
940
920
900
880

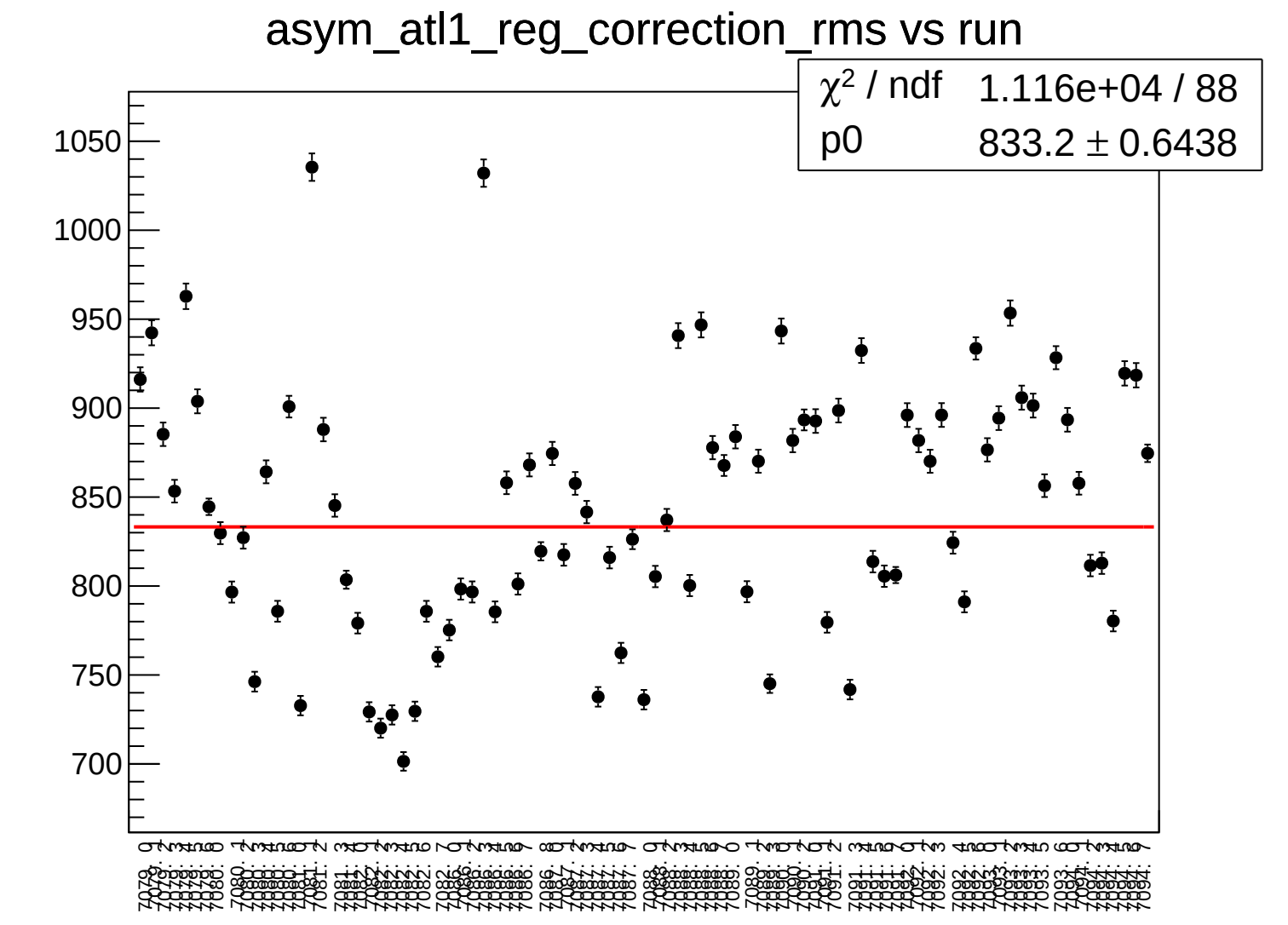

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 88.68 / 88
p0 1634 ± 2590
100
50
0
−50
−100
pull
Entries 89
Mean −316.6
Std Dev 0
3
2
1
0
−1
−2
−3

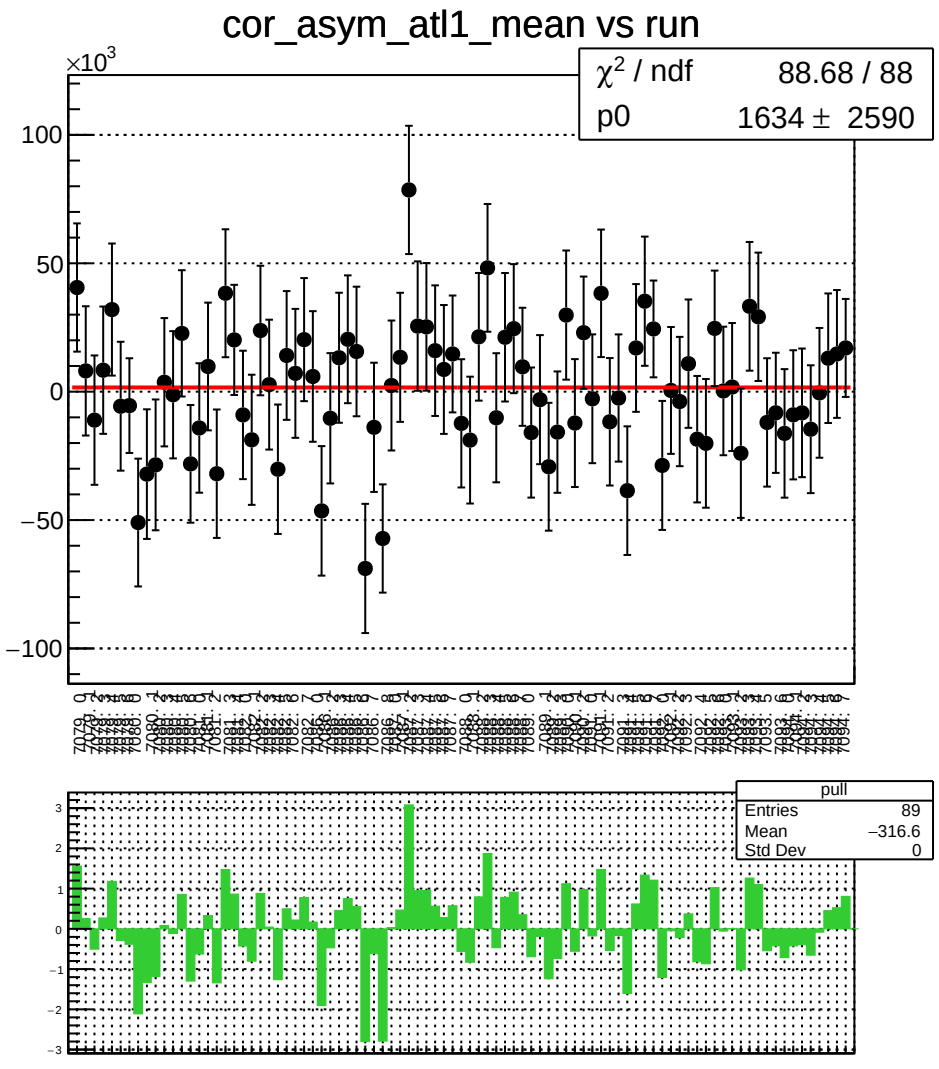

pull1D
Entries 89
Mean −0.004232
Std Dev 0.9982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

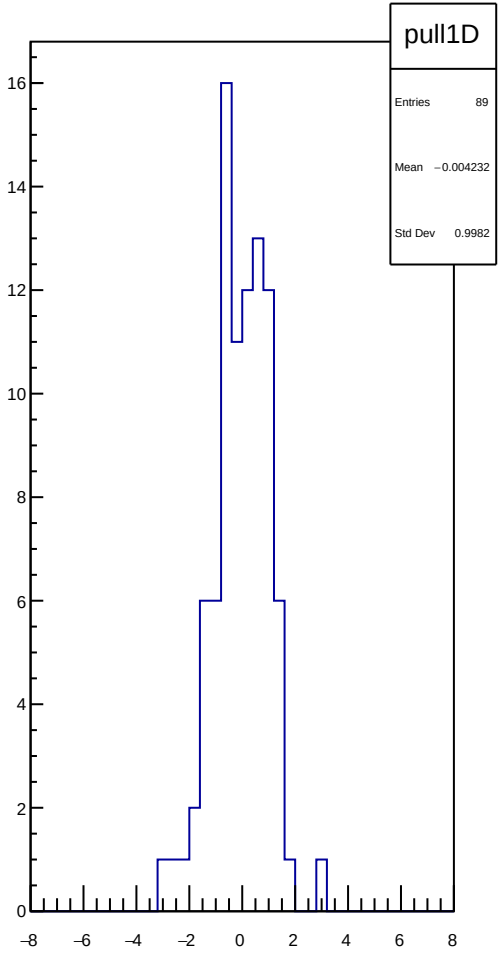

reg_asym_atl1_rms vs run
χ² / ndf 104 / 88
p0 2378 ± 1.831
2460
2440
2420
2400
2380
2360
2340
2320

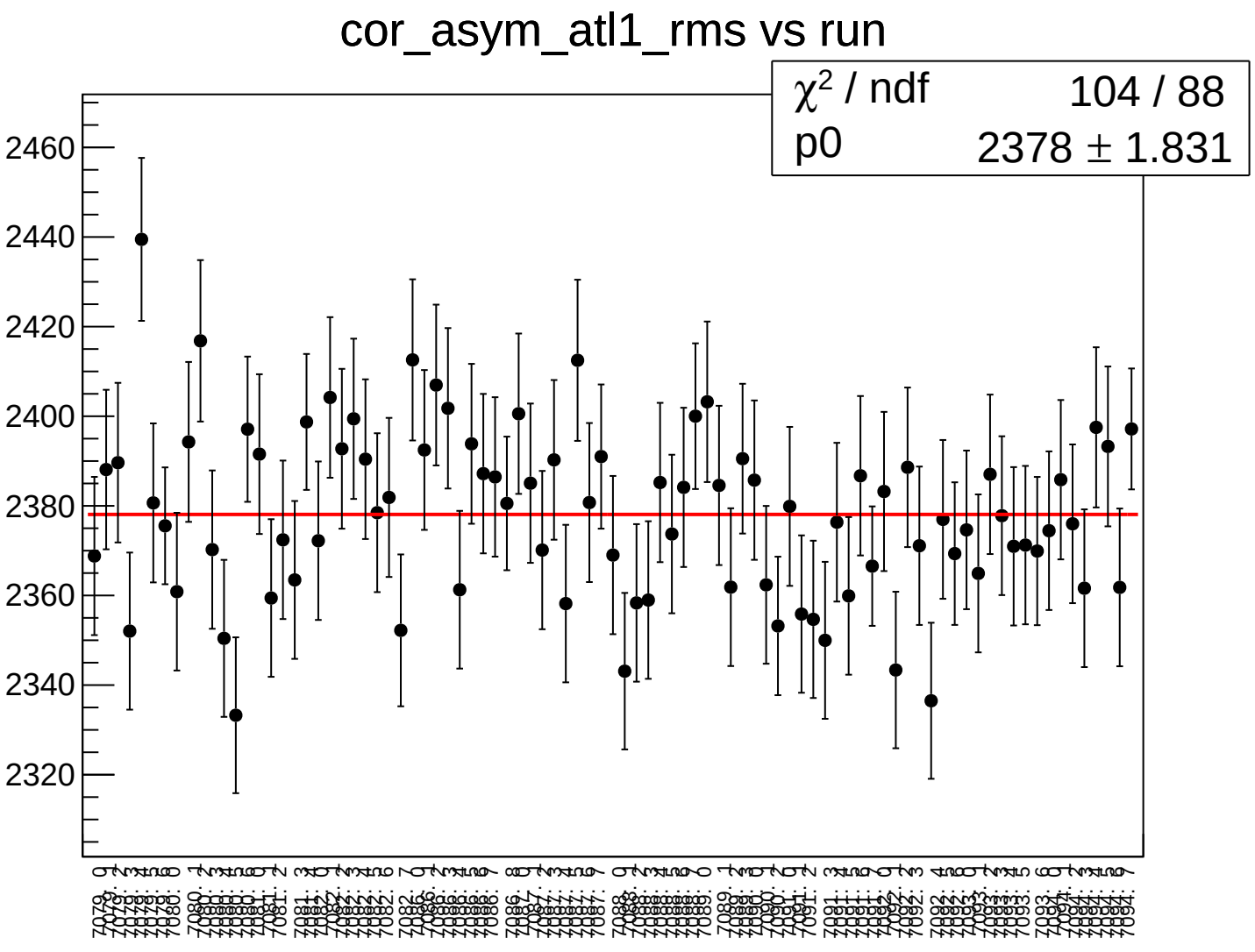

asym_atl1_reg_correction_mean vs run
χ² / ndf 80.18 / 88
p0 313.8 ± 910.5
pull
Entries 89
Mean −1130
Std Dev 0

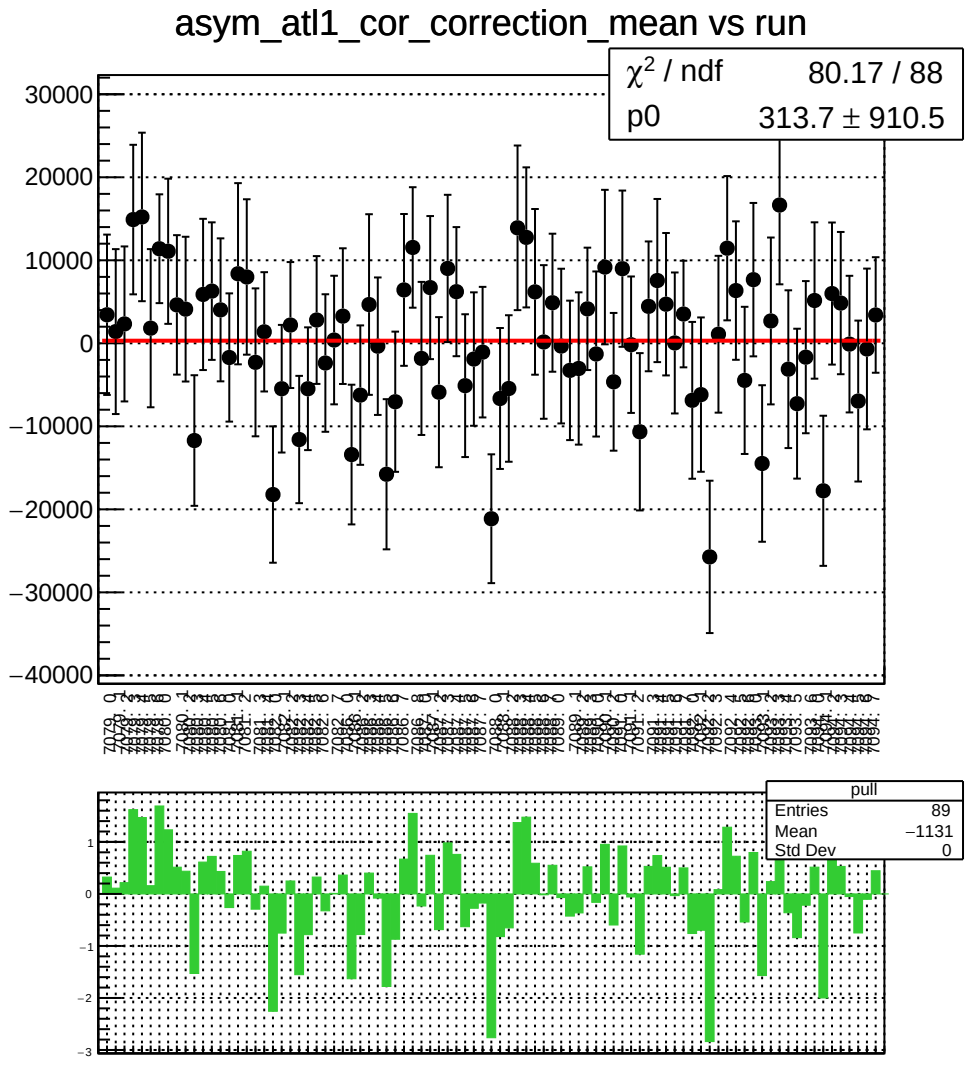

pull1D
Entries 89
Mean 0.002288
Std Dev 0.9491

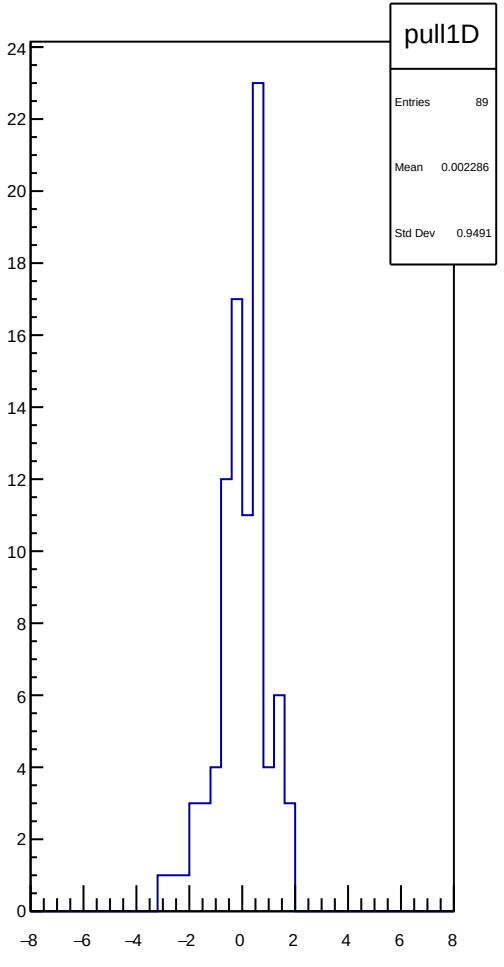

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.116e+04 / 88
p0 833.2 ± 0.6438
1050
1000
950
900
850
800
750
700

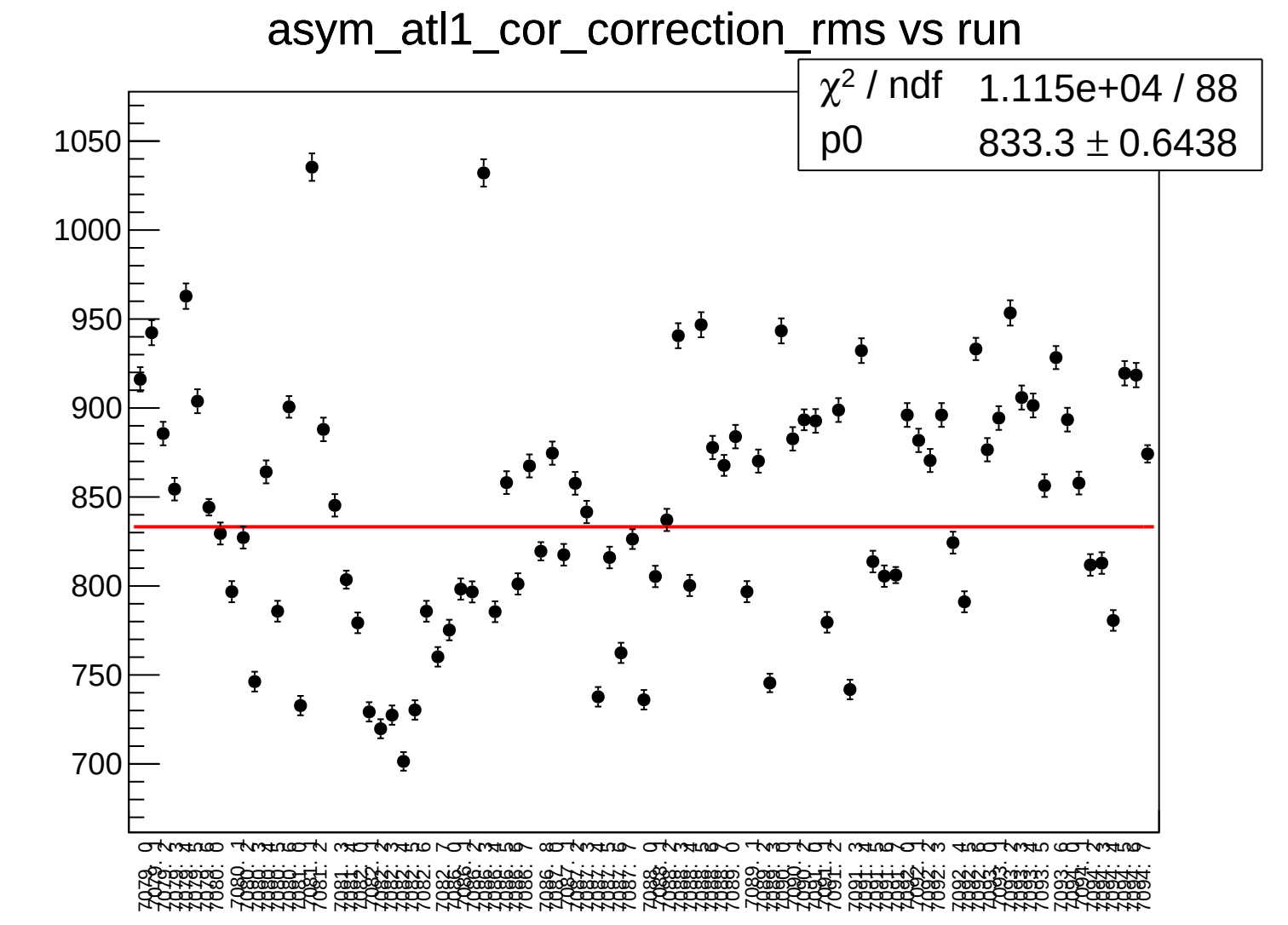

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 88.68 / 88
p0 1634 ± 2590
100
50
0
−50
−100
pull
Entries 89
Mean −316.6
Std Dev 0
3
2
1
0
−1
−2
−3

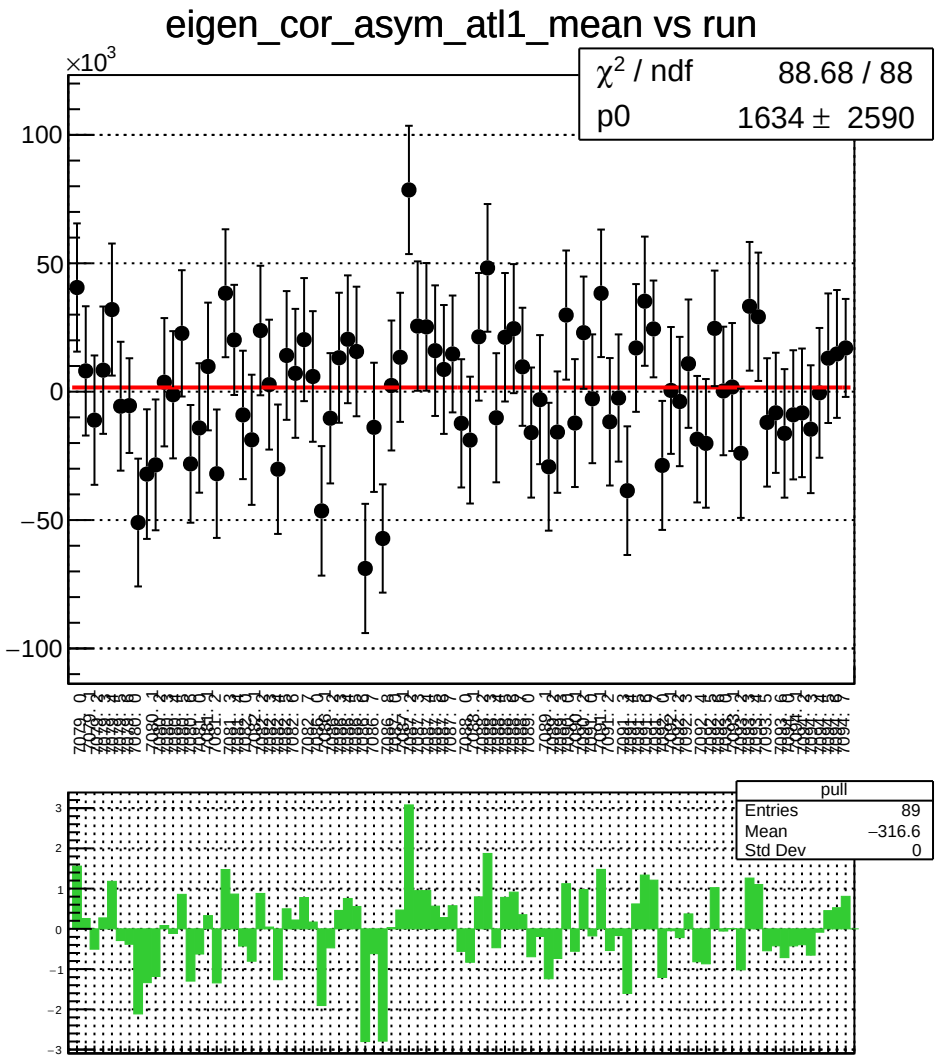

pull1D
Entries 89
Mean −0.004232
Std Dev 0.9982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

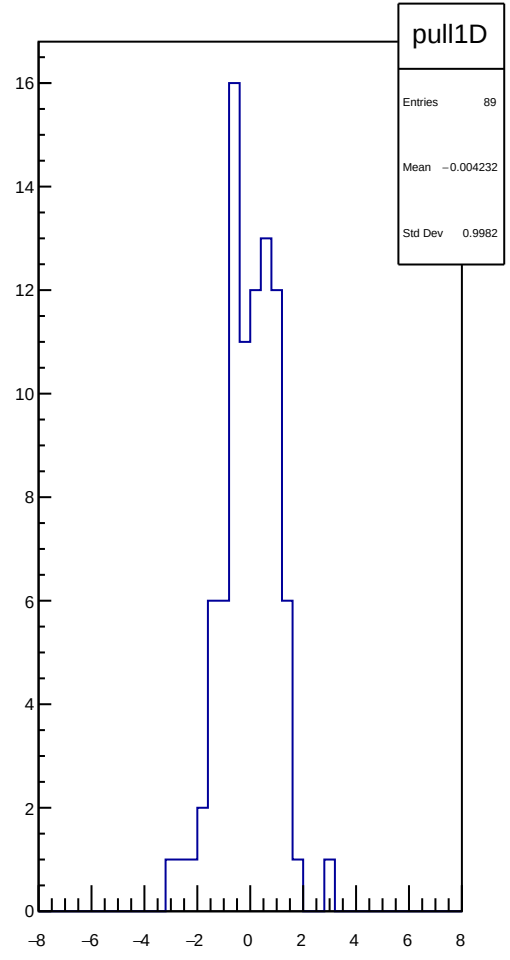

cor_asym_atl1_rms vs run
χ² / ndf 104 / 88
p0 2378 ± 1.831
2460
2440
2420
2400
2380
2360
2340
2320

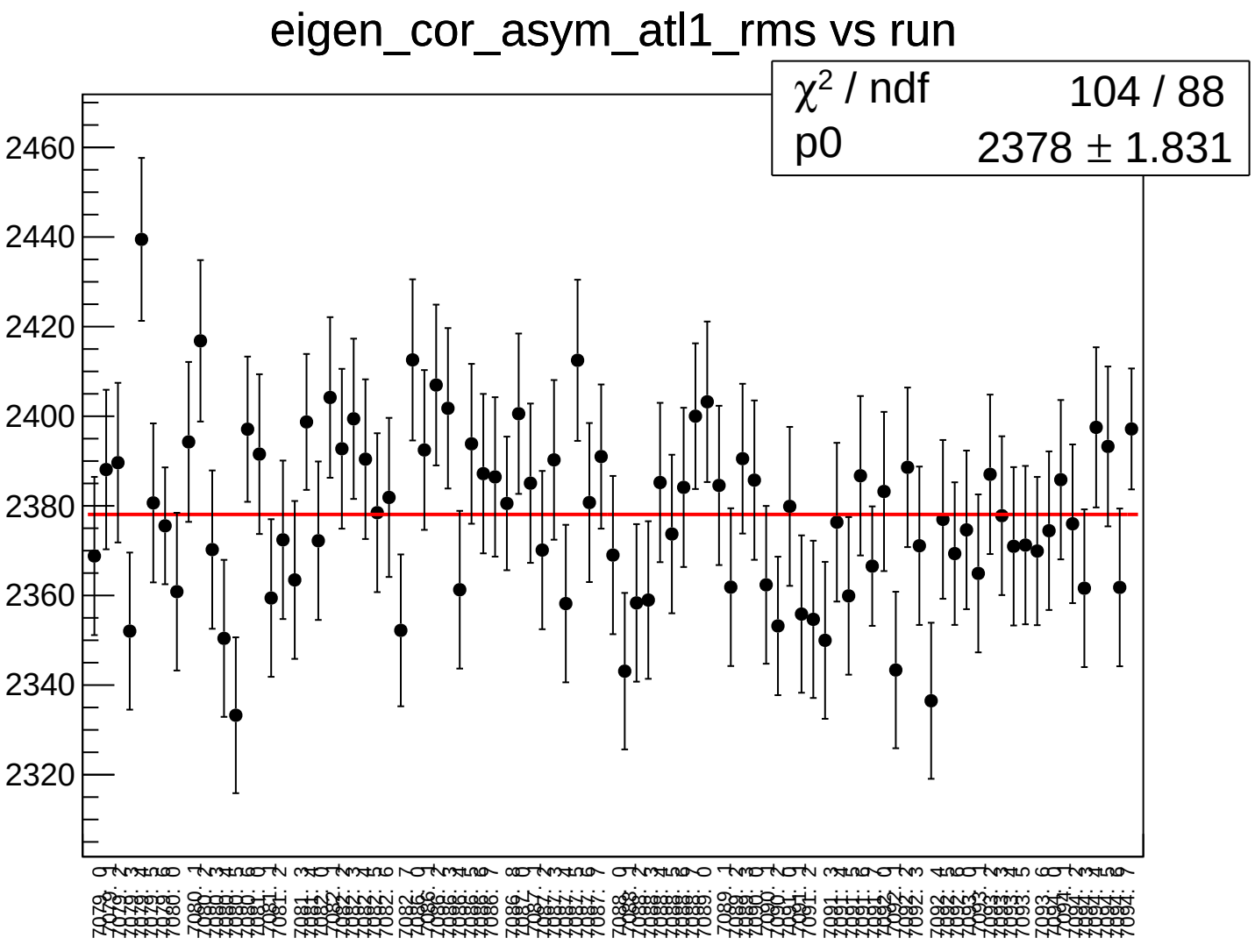

asym_atl1_cor_correction_mean vs run
χ² / ndf 80.17 / 88
p0 313.7 ± 910.5
pull
Entries 89
Mean −1131
Std Dev 0

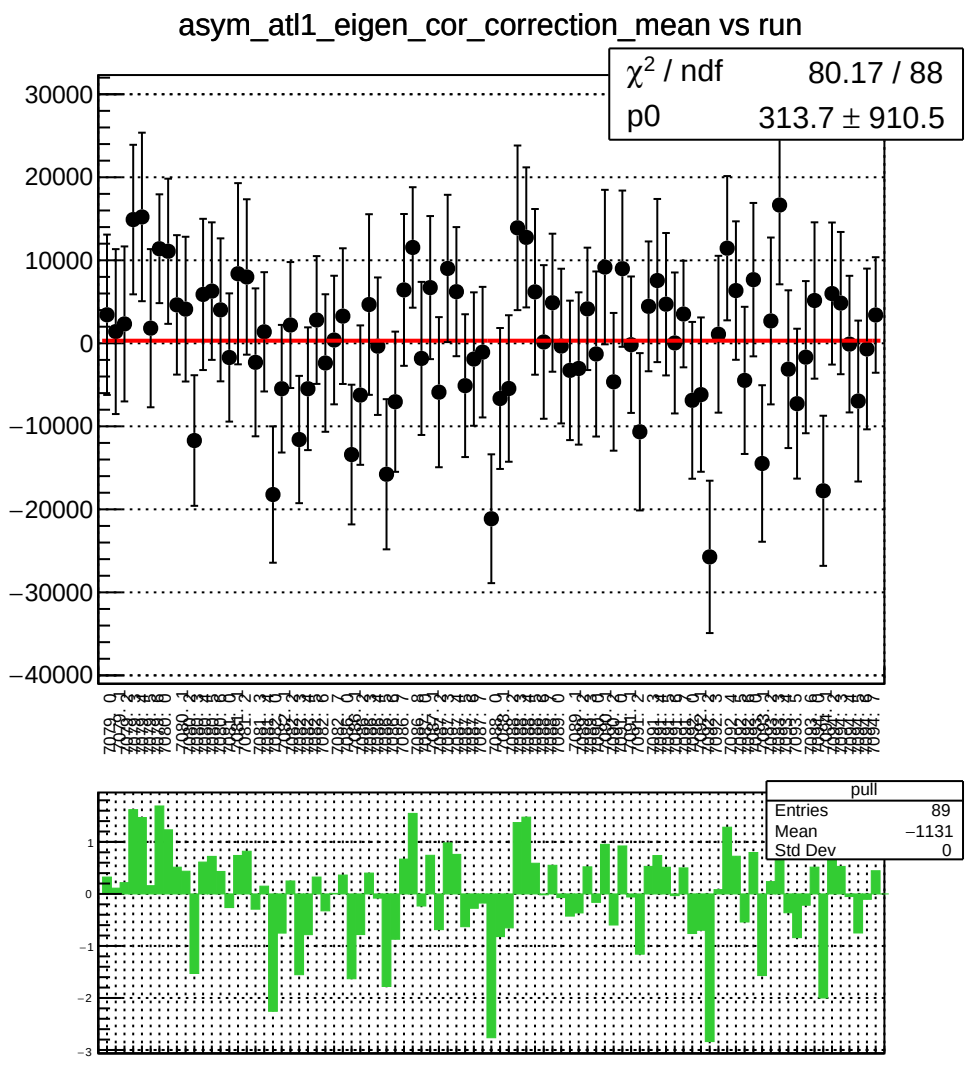

pull1D
Entries 89
Mean 0.002286
Std Dev 0.9491

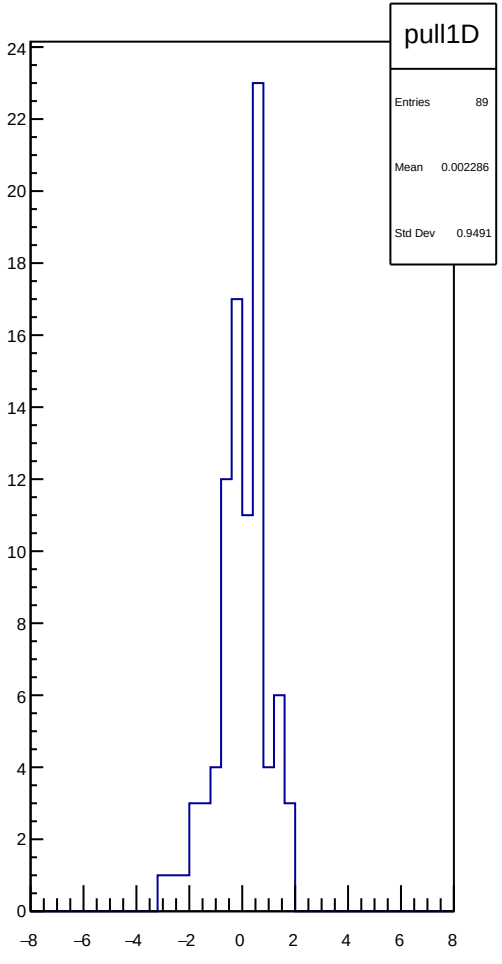

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.115e+04 / 88
p0 833.3 ± 0.6438
1050
1000
950
900
850
800
750
700

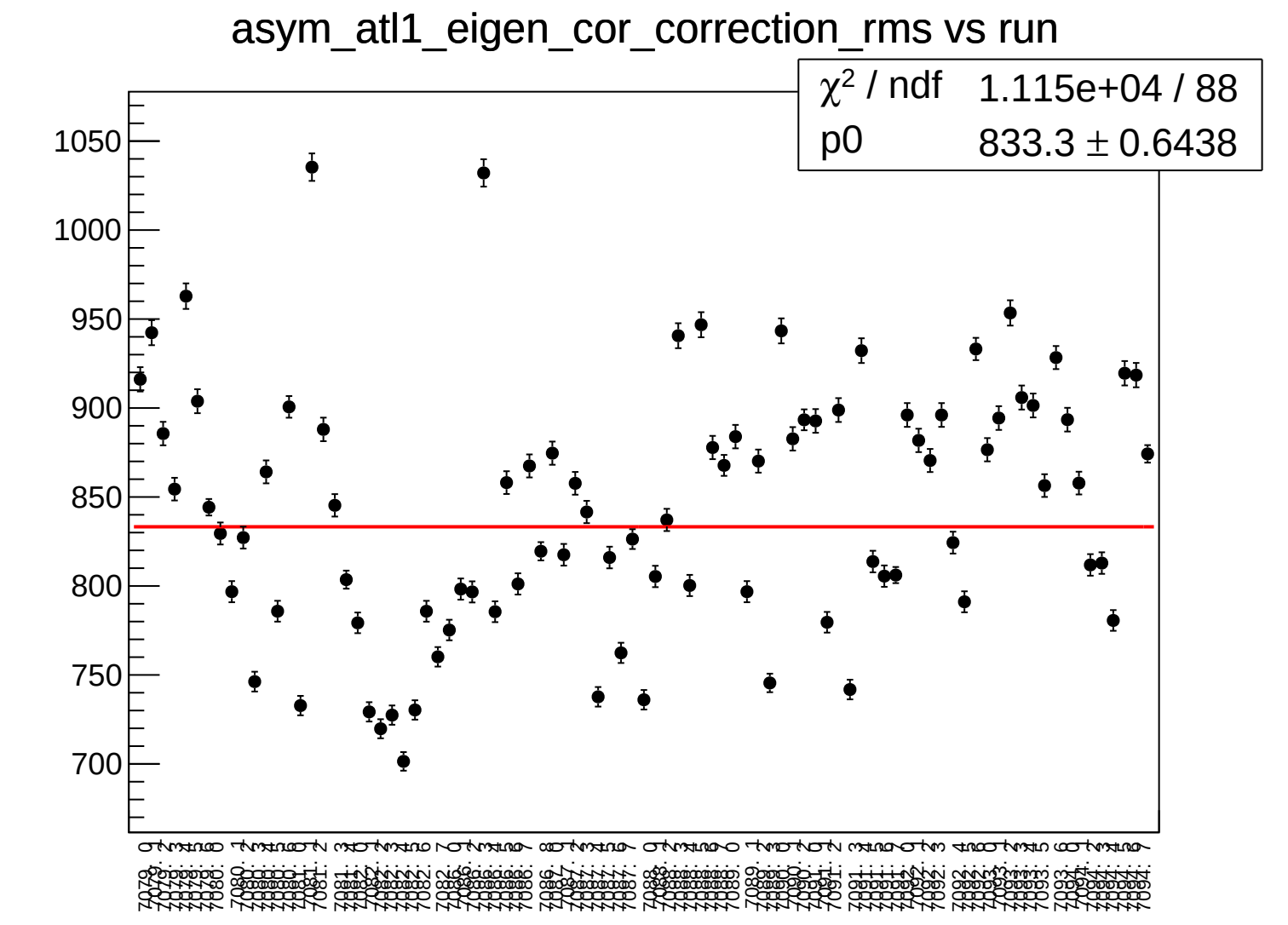

eigen_cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 88.68 / 88
p0 1634 ± 2590
100
50
0
−50
−100
pull
Entries 89
Mean −316.6
Std Dev 0
3
2
1
0
−1
−2
−3

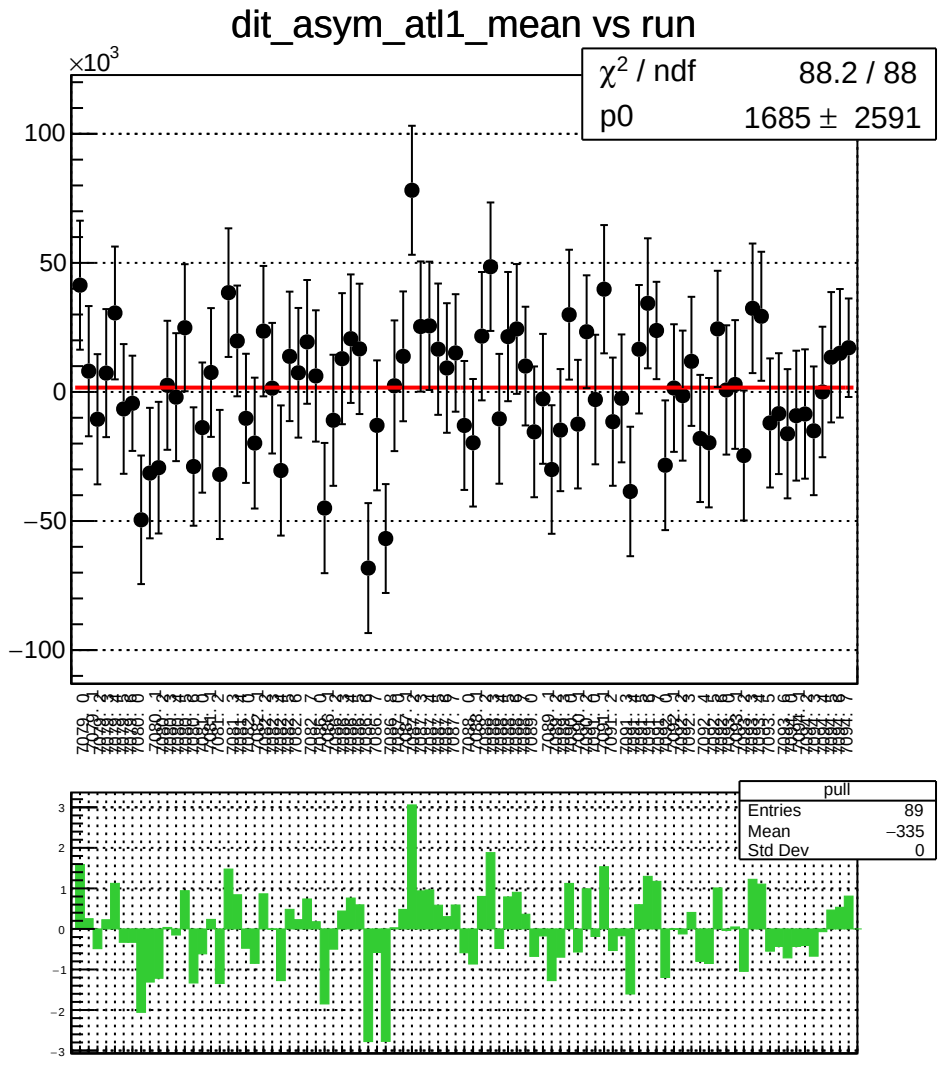

pull1D
Entries 89
Mean −0.004232
Std Dev 0.9982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

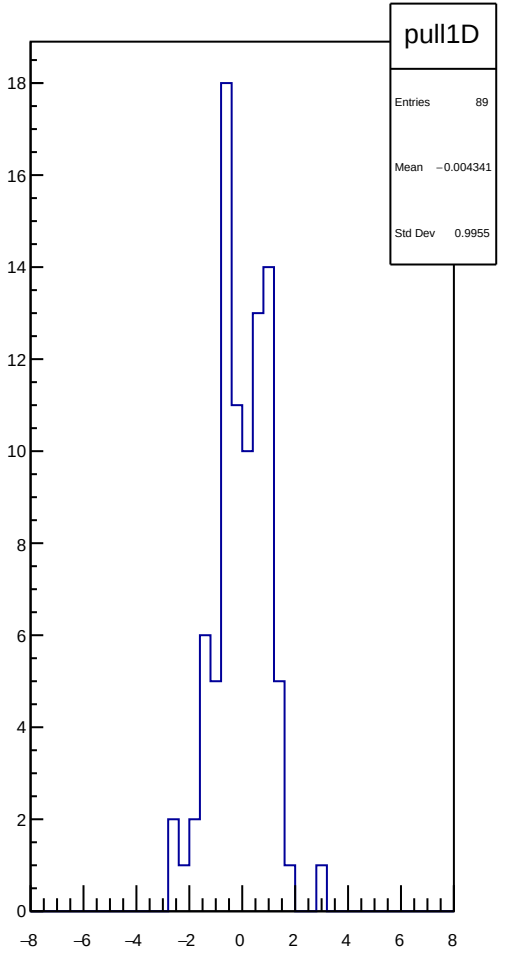

eigen_cor_asym_atl1_rms vs run
χ² / ndf 104 / 88
p0 2378 ± 1.831
2460
2440
2420
2400
2380
2360
2340
2320

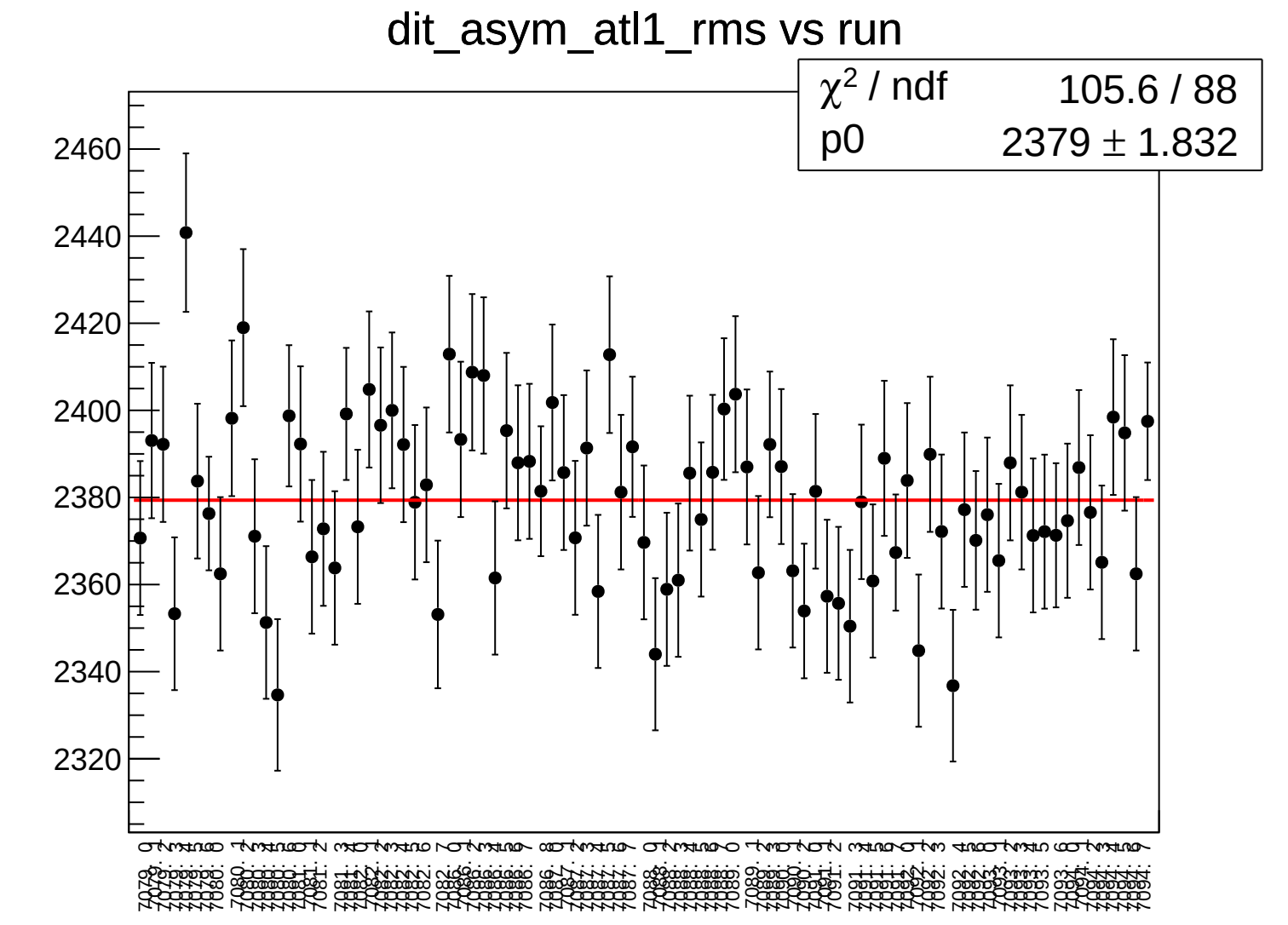

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 80.17 / 88
p0 313.7 ± 910.5
pull
Entries 89
Mean −1131
Std Dev 0

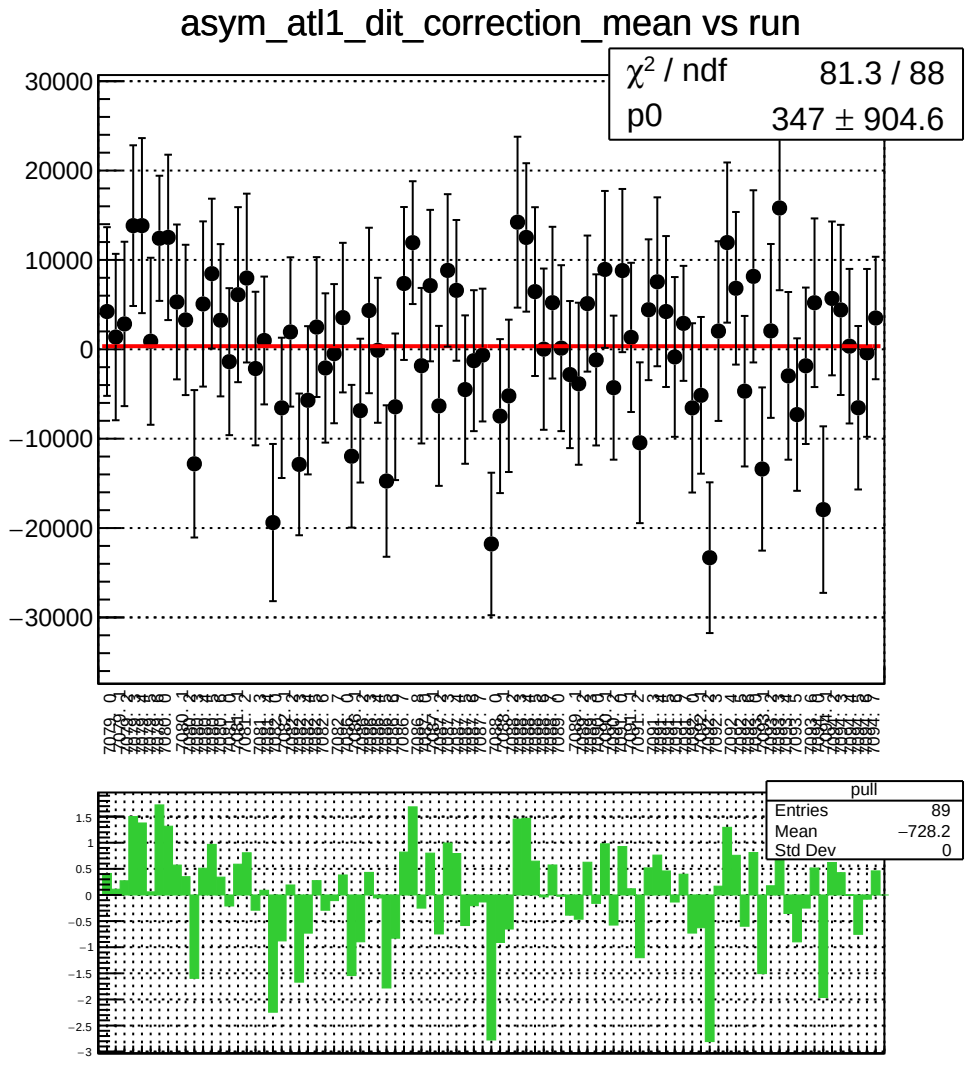

pull1D
Entries 89
Mean 0.002286
Std Dev 0.9491

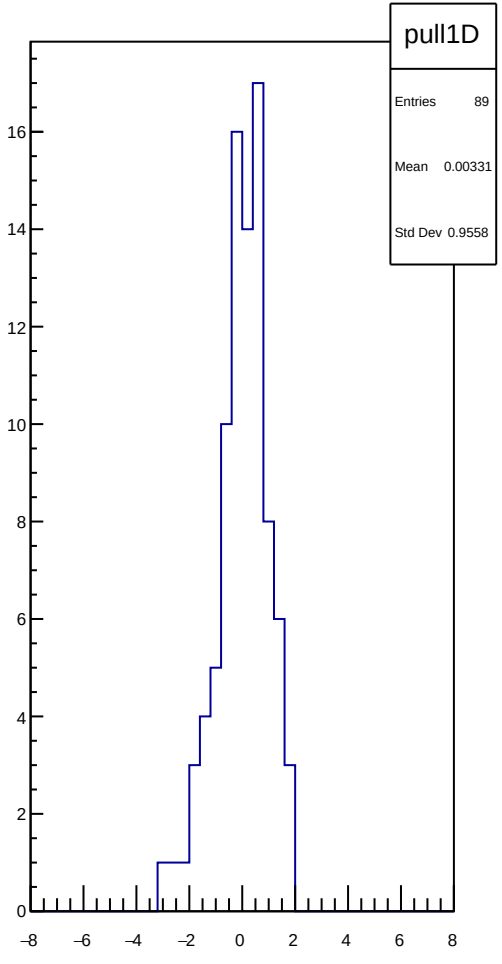

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.115e+04 / 88
p0 833.3 ± 0.6438
1050
1000
950
900
850
800
750
700

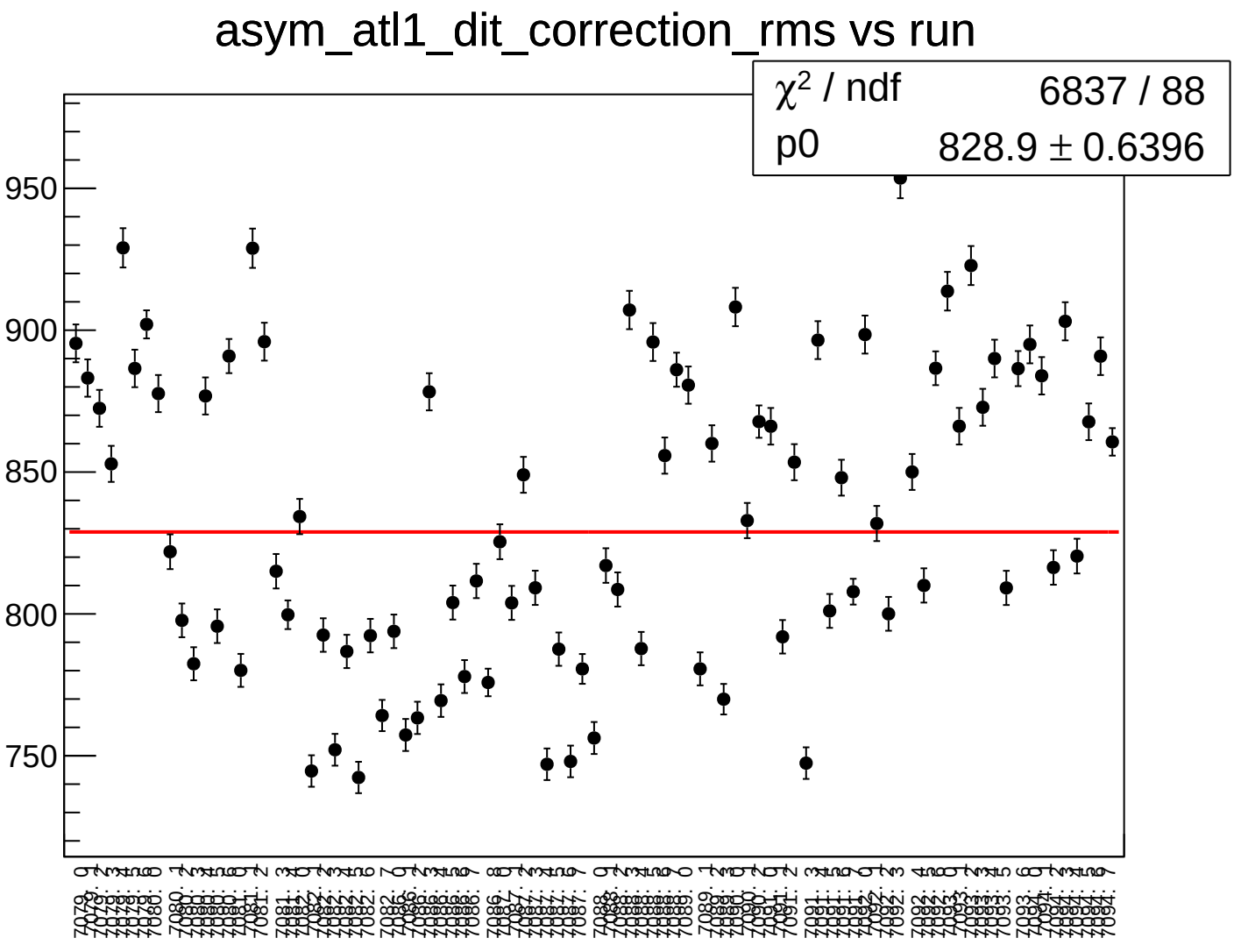

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 88.2 / 88
p0 1685 ± 2591
100
50
0
−50
−100
pull
Entries 89
Mean −335
Std Dev 0
3
2
1
0
−1
−2
−3

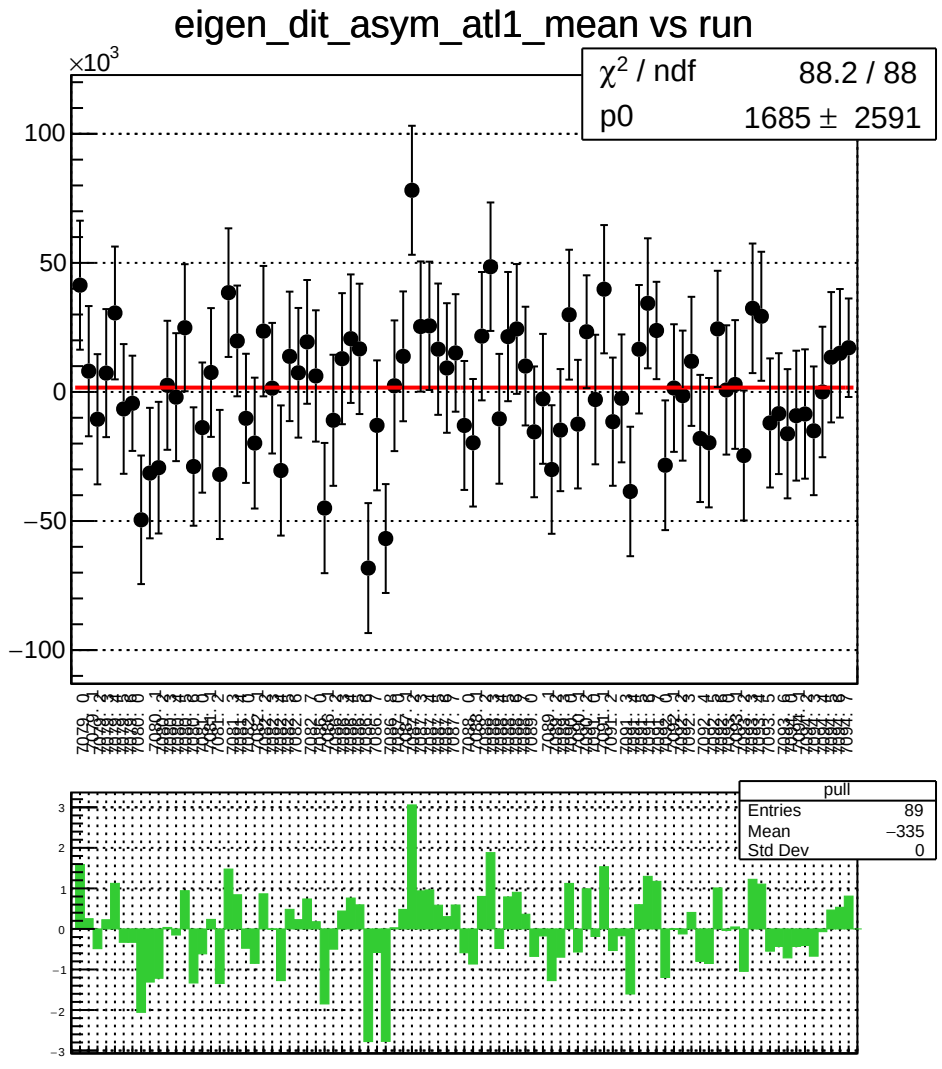

pull1D
Entries 89
Mean −0.004341
Std Dev 0.9955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

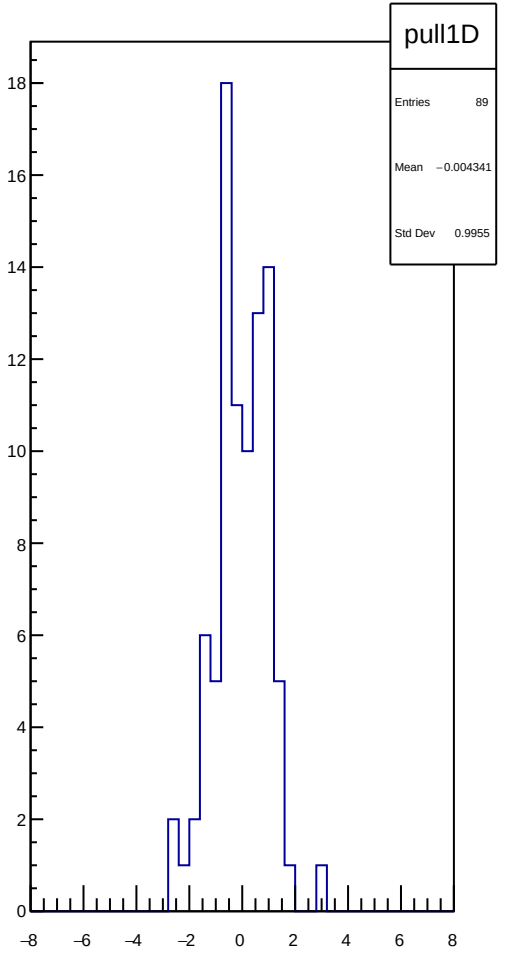

dit_asym_atl1_rms vs run
χ^2 / ndf 105.6 / 88
p0 2379 ± 1.832
2460
2440
2420
2400
2380
2360
2340
2320

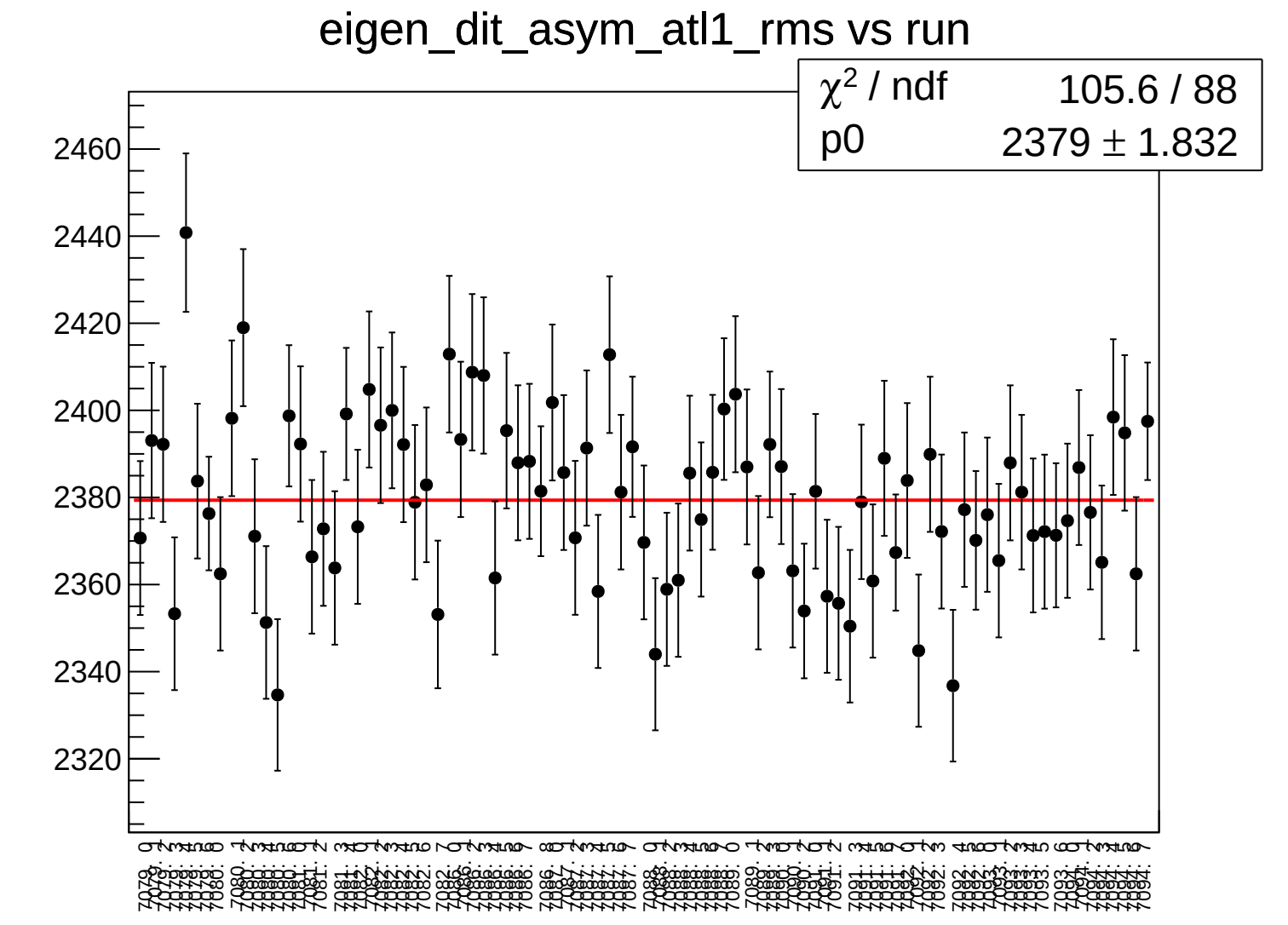

asym_atl1_dit_correction_mean vs run
χ² / ndf 81.3 / 88
p0 347 ± 904.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −728.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

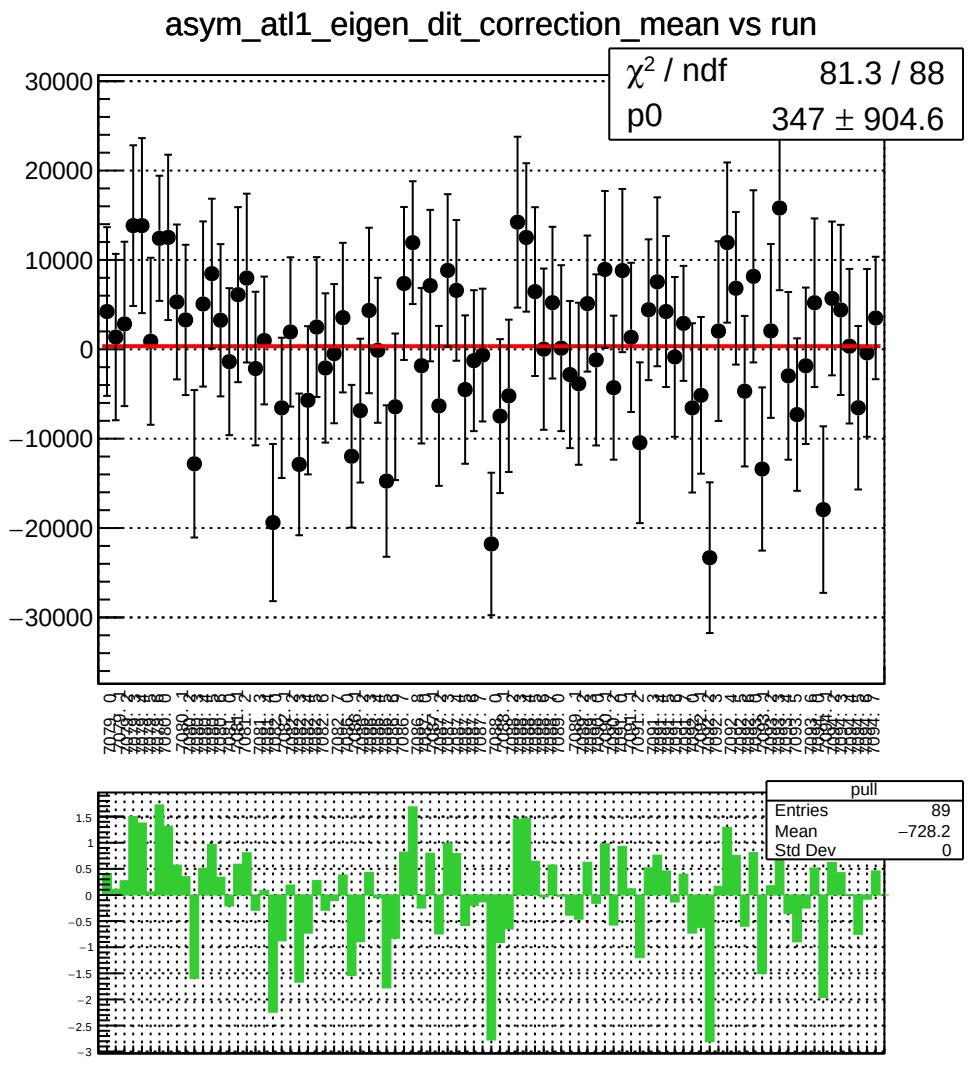

pull1D
Entries 89
Mean 0.00331
Std Dev 0.9558
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

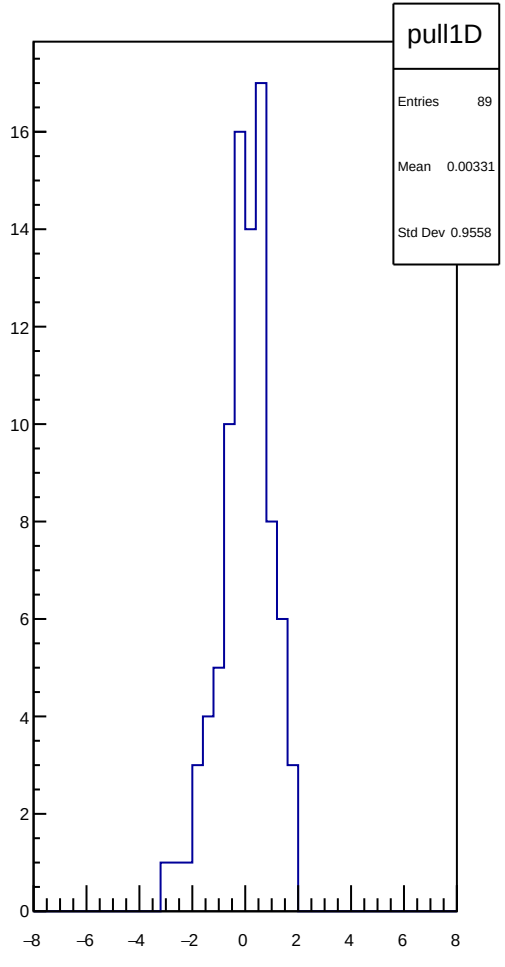

asym_atl1_dit_correction_rms vs run
χ² / ndf 6837 / 88
p0 828.9 ± 0.6396
950
900
850
800
750

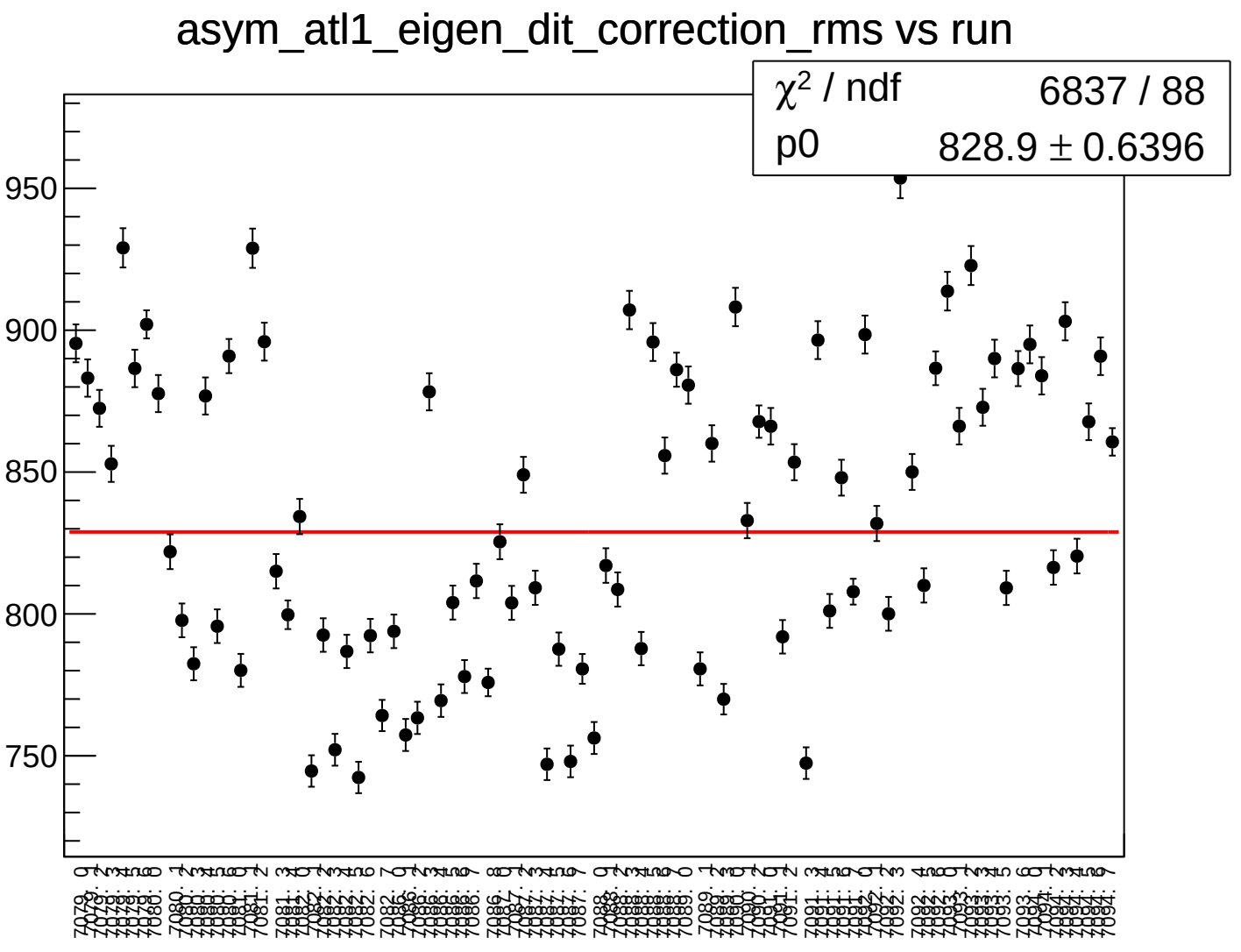

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 88.2 / 88
p0 1685 ± 2591
100
50
0
−50
−100
pull
Entries 89
Mean −335
Std Dev 0
3
2
1
0
−1
−2
−3

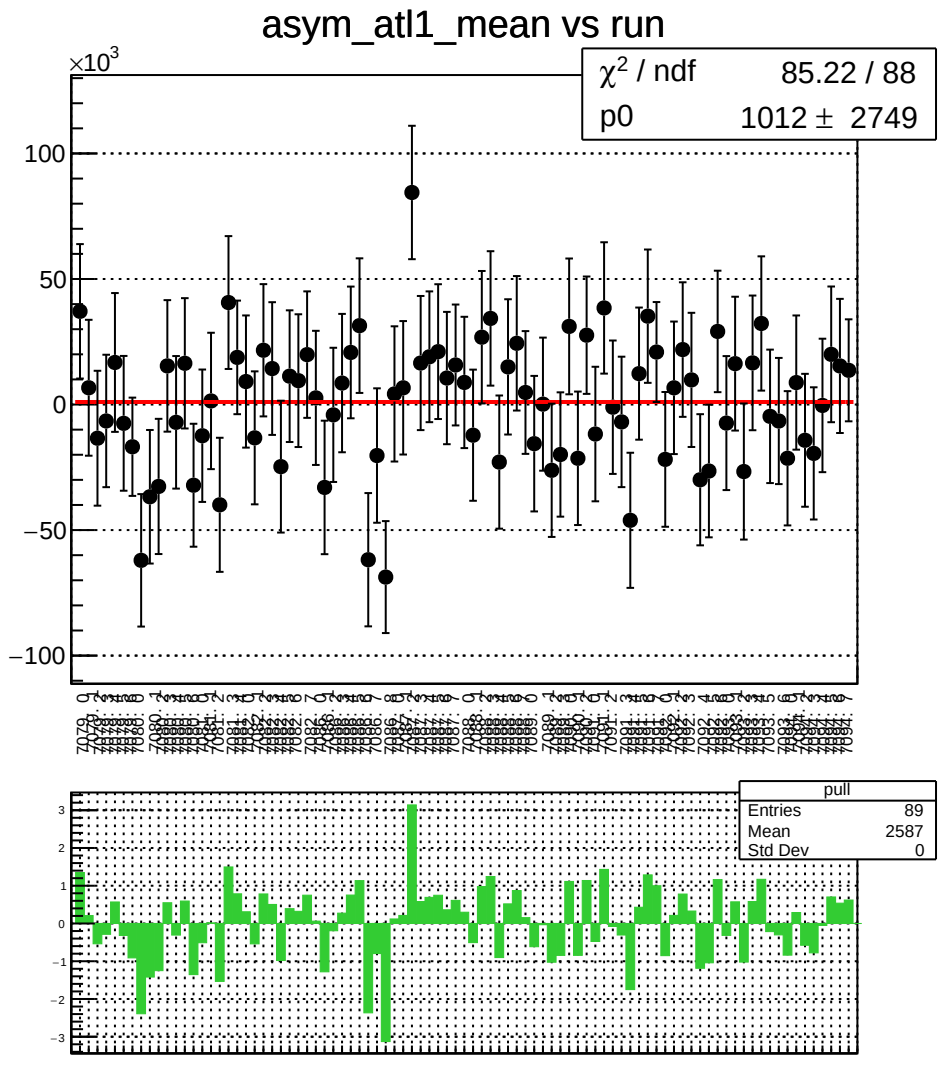

pull1D
Entries 89
Mean −0.004341
Std Dev 0.9955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

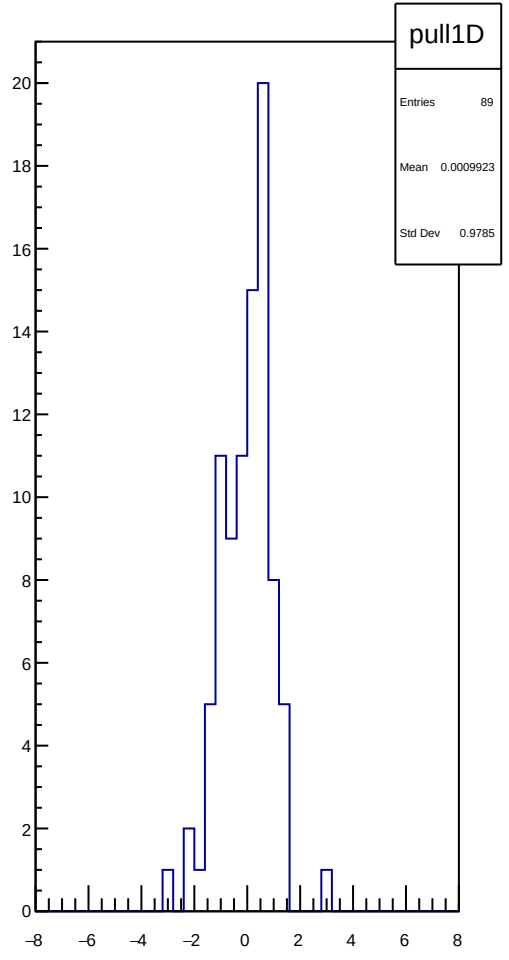

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 105.6 / 88
p0 2379 ± 1.832
2460
2440
2420
2400
2380
2360
2340
2320

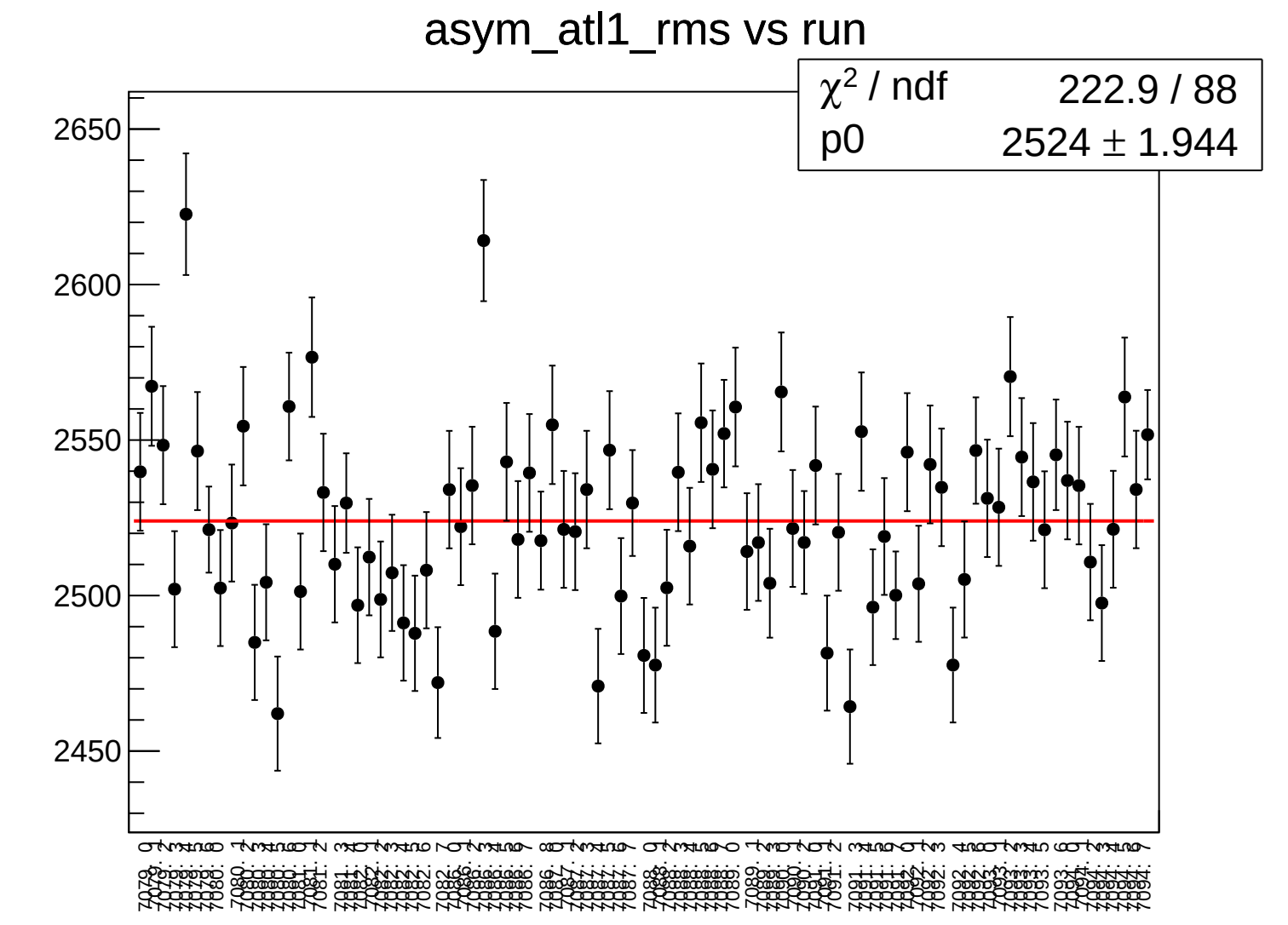

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 81.3 / 88
p0 347 ± 904.6
pull
Entries 89
Mean −728.2
Std Dev 0

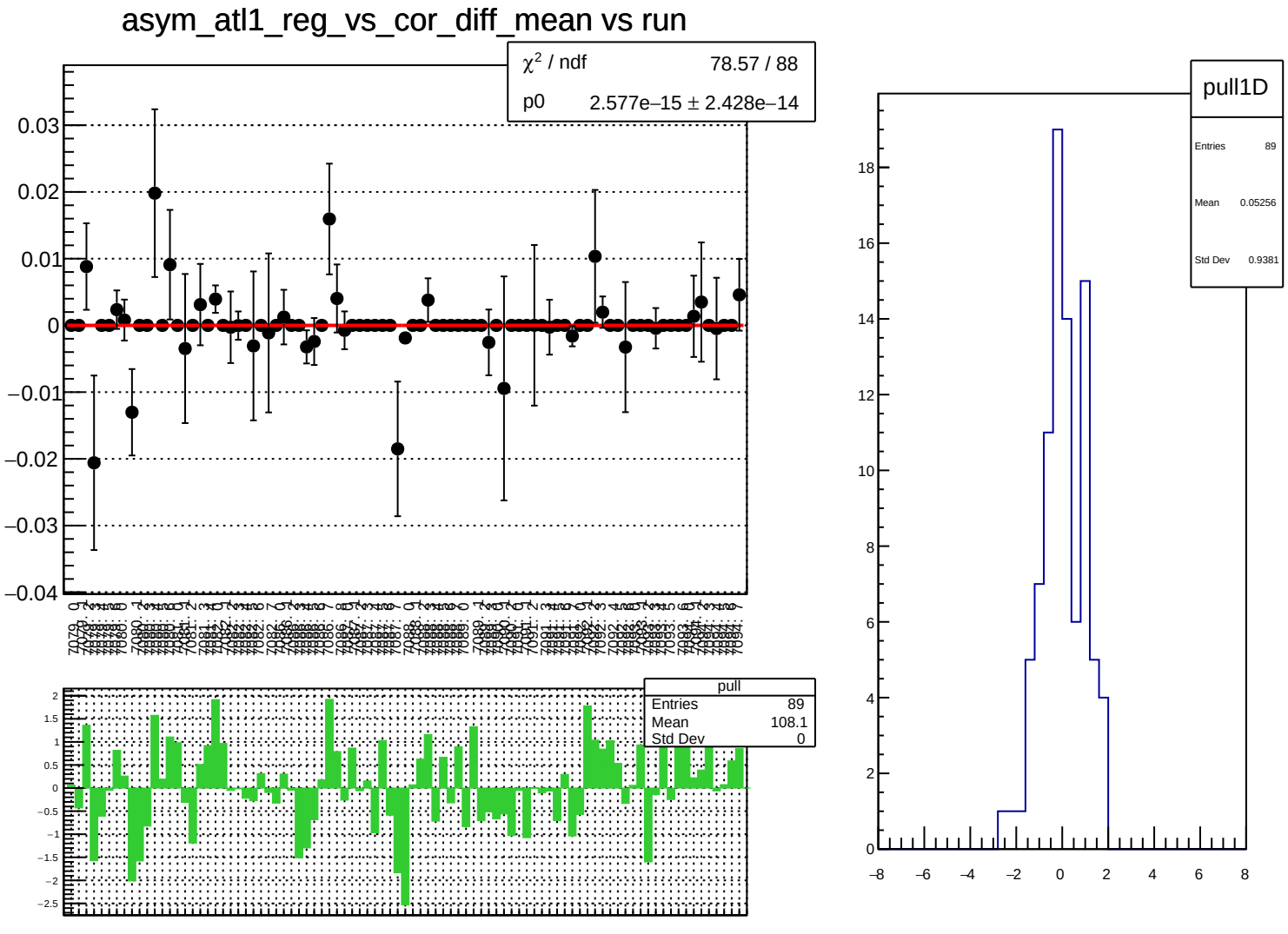

pull1D
Entries 89
Mean 0.00331
Std Dev 0.9558

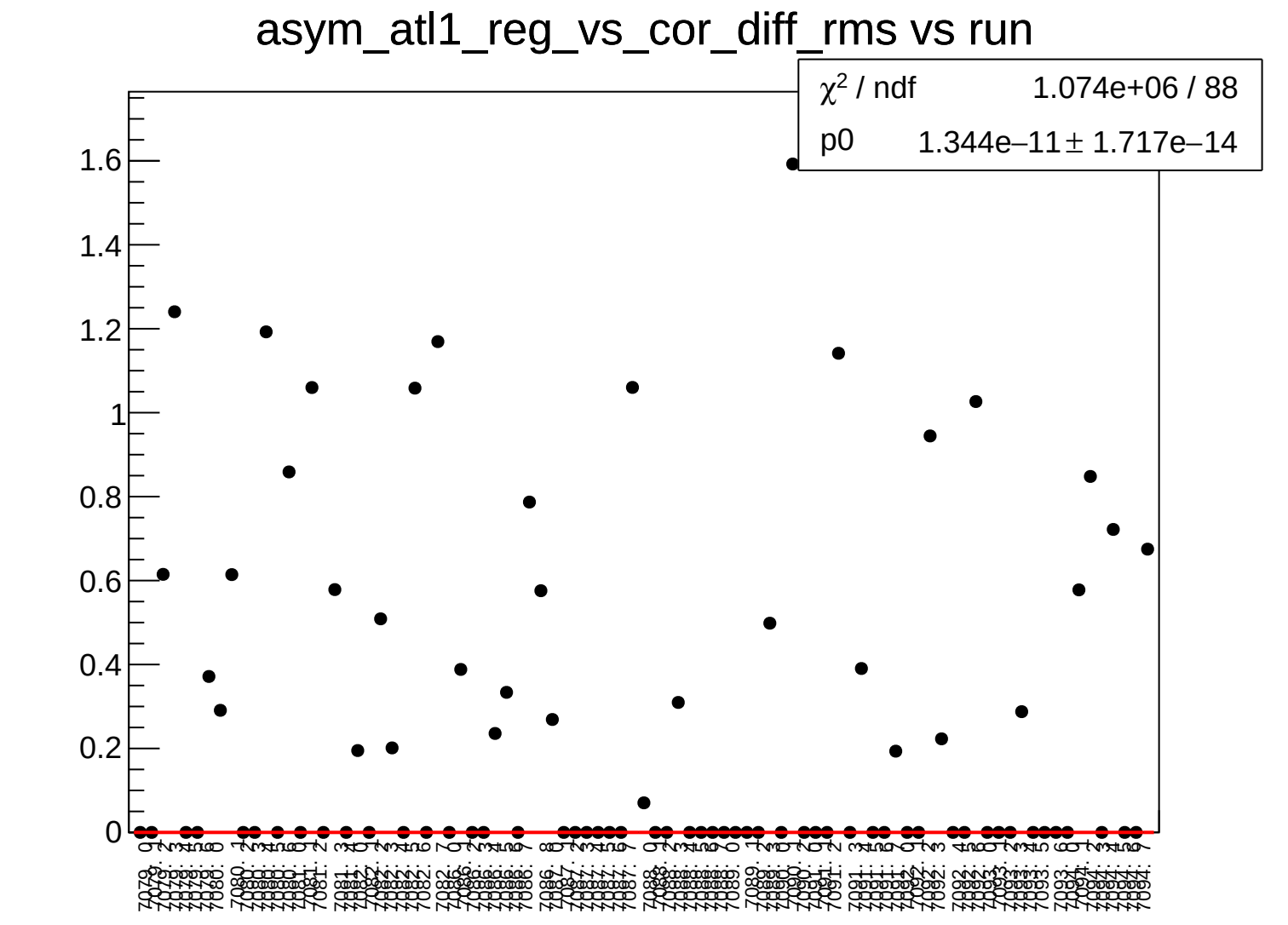

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 6837 / 88
p0 828.9 ± 0.6396
950
900
850
800
750

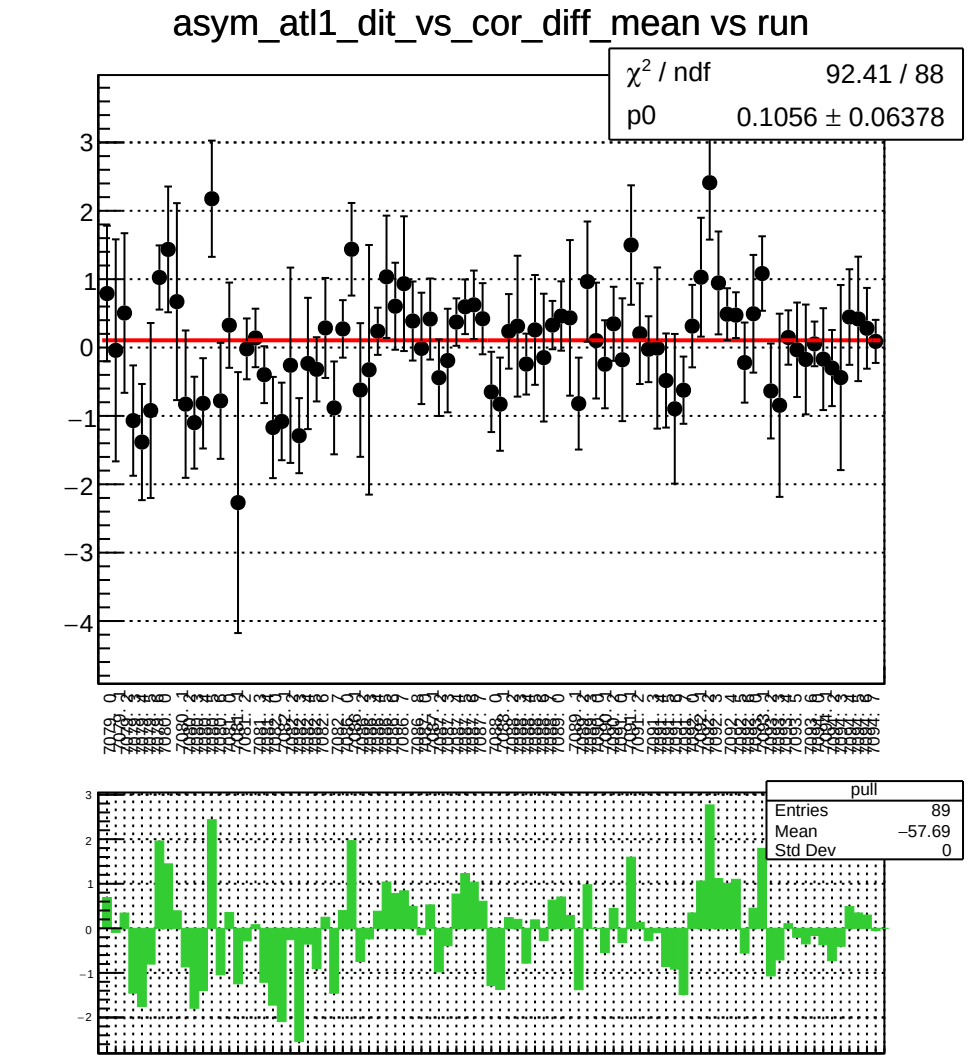

asym_atl1_mean vs run
χ² / ndf 85.22 / 88
p0 1012 ± 2749
×10³
100
50
0
−50
−100
pull
Entries 89
Mean 2587
Std Dev 0
3
2
1
0
−1
−2
−3

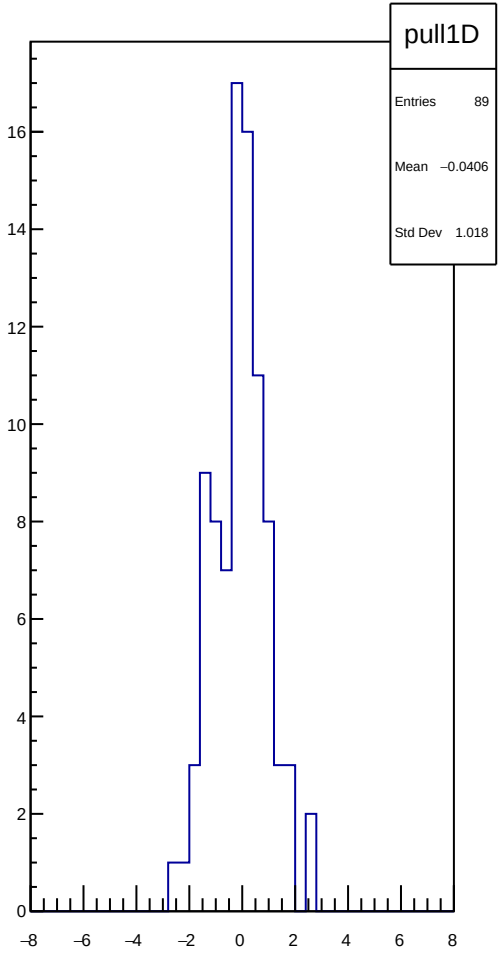

pull1D
Entries 89
Mean 0.0009923
Std Dev 0.9785
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

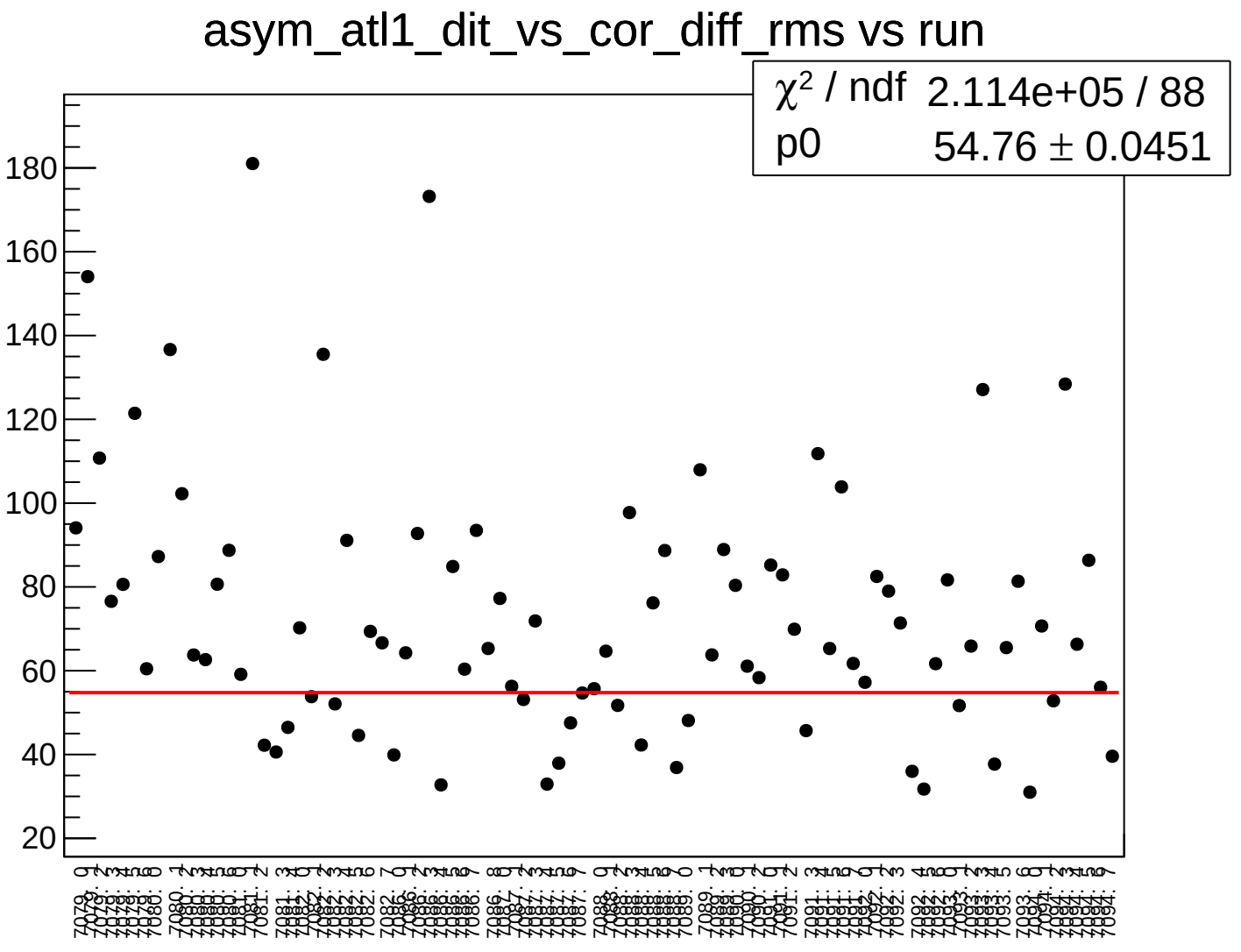

asym_atl1_rms vs run
χ² / ndf 222.9 / 88
p0 2524 ± 1.944
2650
2600
2550
2500
2450

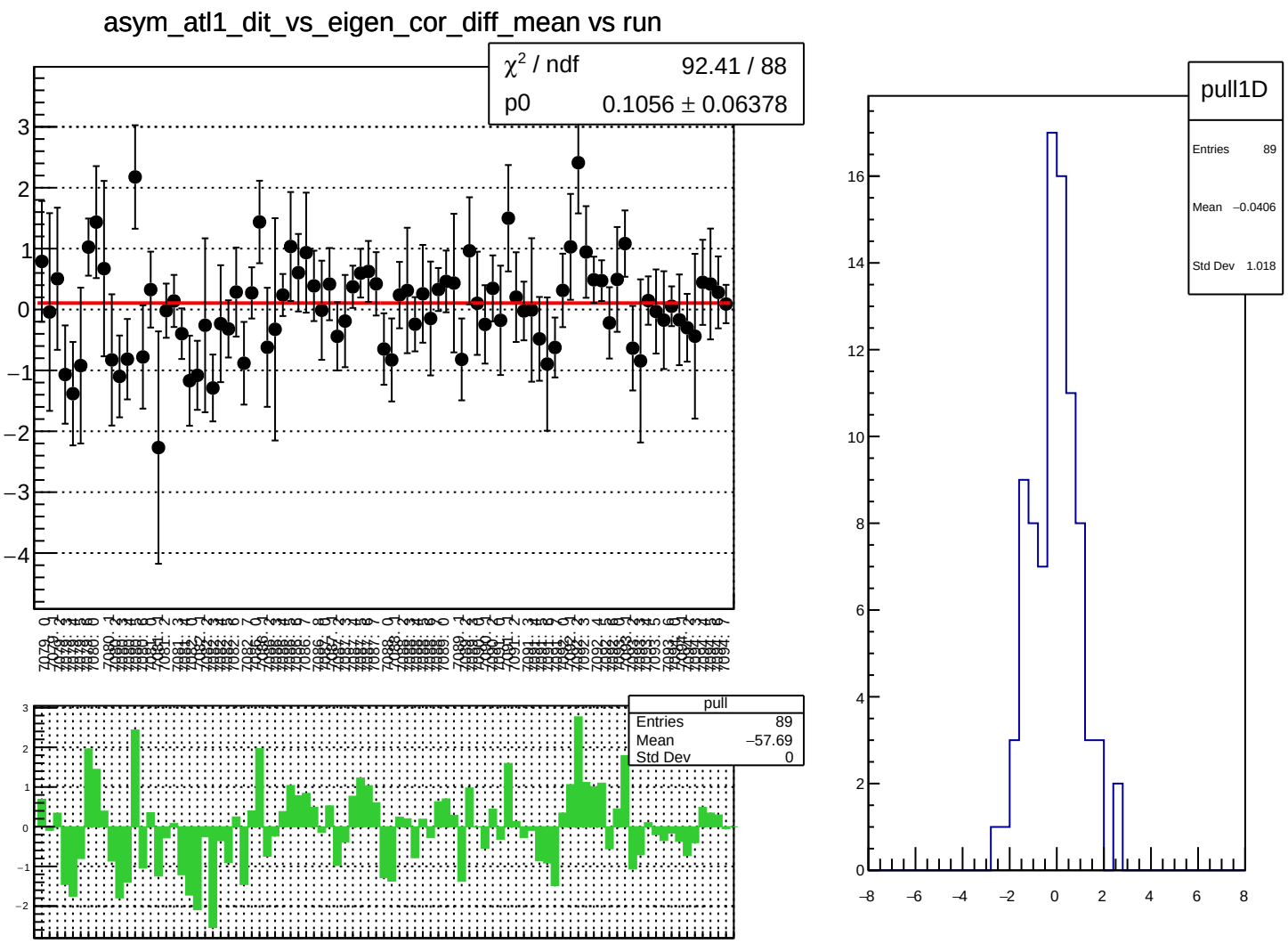

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 78.57 / 88
p0 2.577e−15 ± 2.428e−14
pull
Entries 89
Mean 108.1
Std Dev 0
pull1D
Entries 89
Mean 0.05256
Std Dev 0.9381

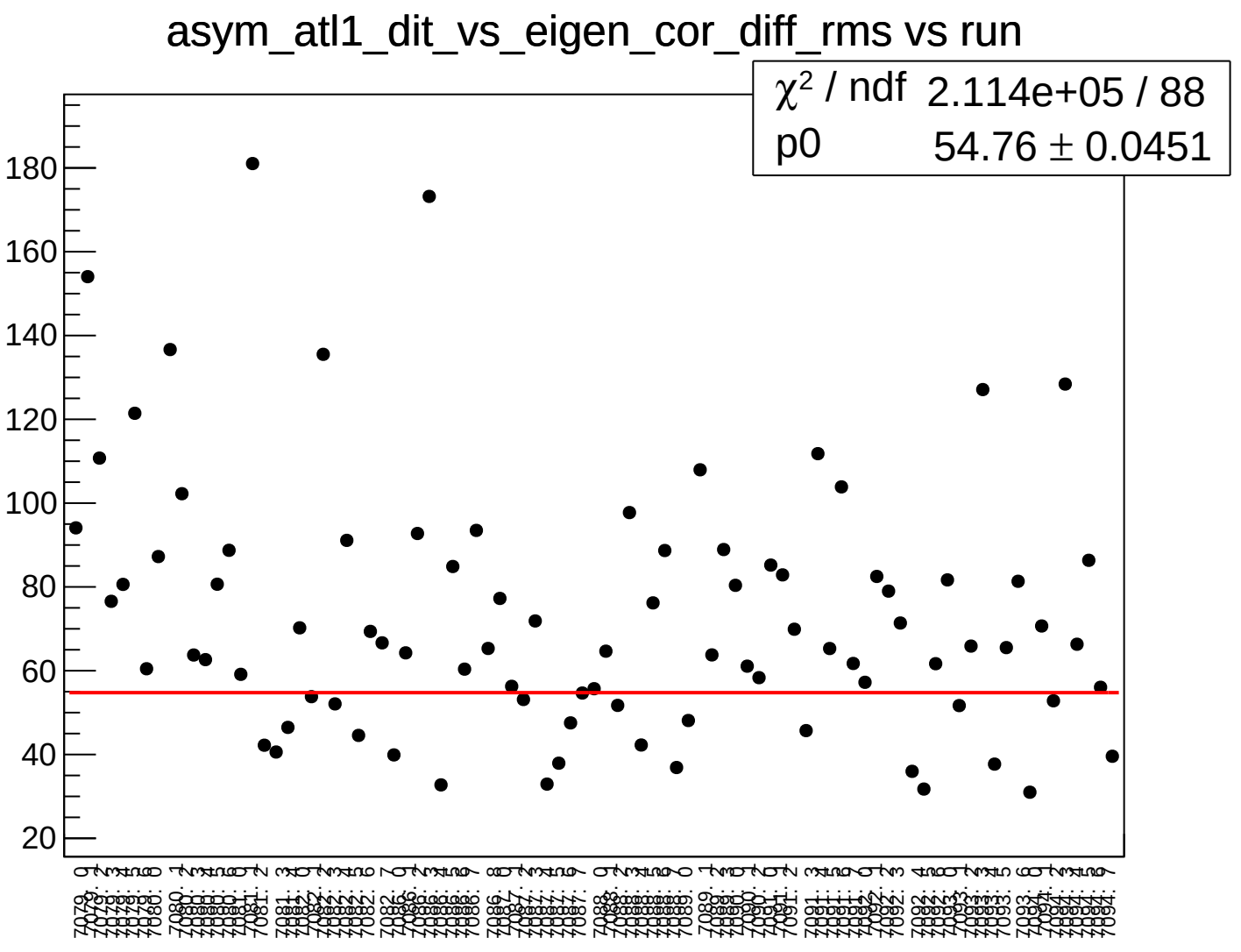

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.074e+06 / 88
p0 1.344e−11 ± 1.717e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

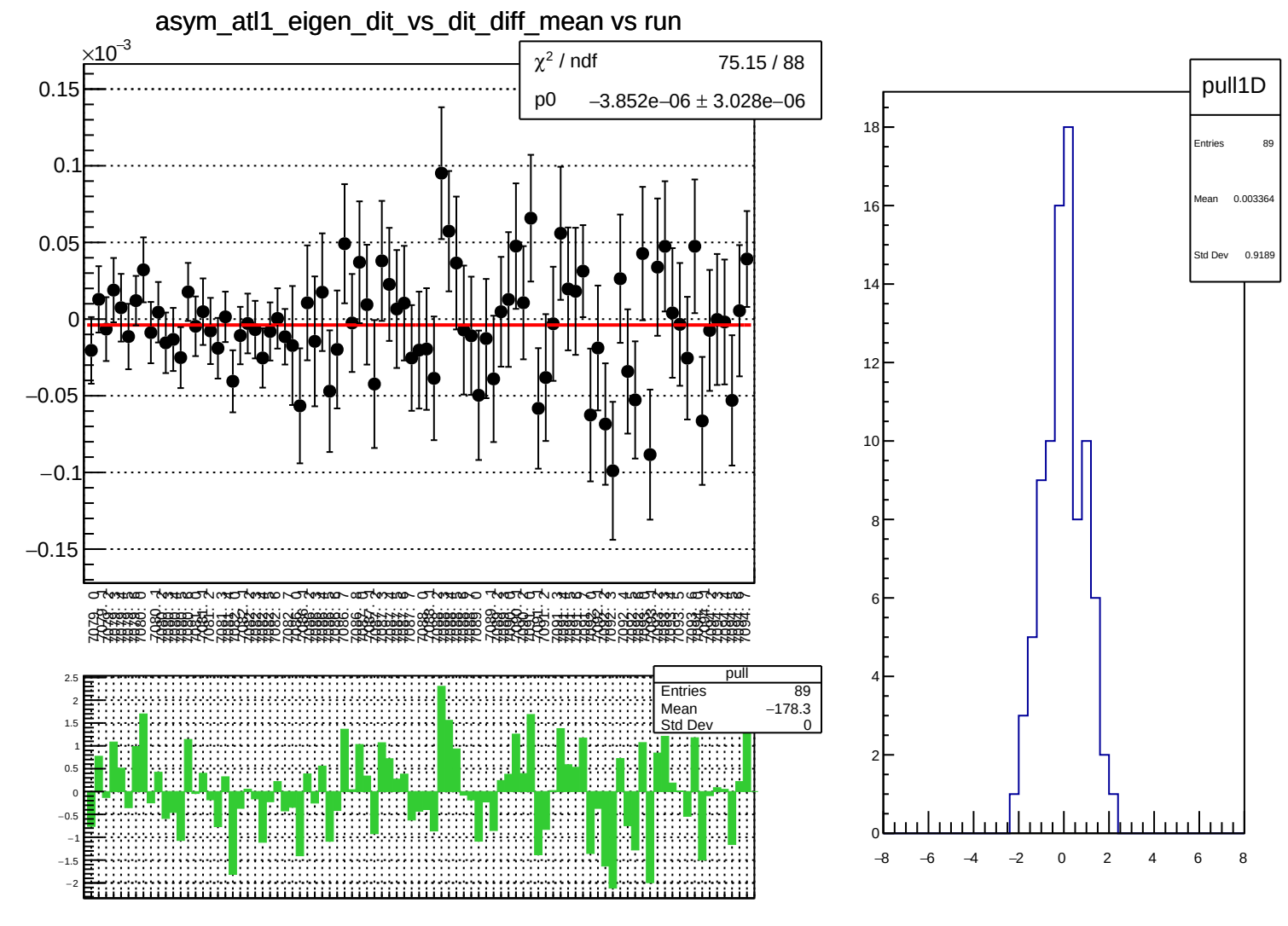

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 92.41 / 88
p0 0.1056 ± 0.06378
pull
Entries 89
Mean −57.69
Std Dev 0

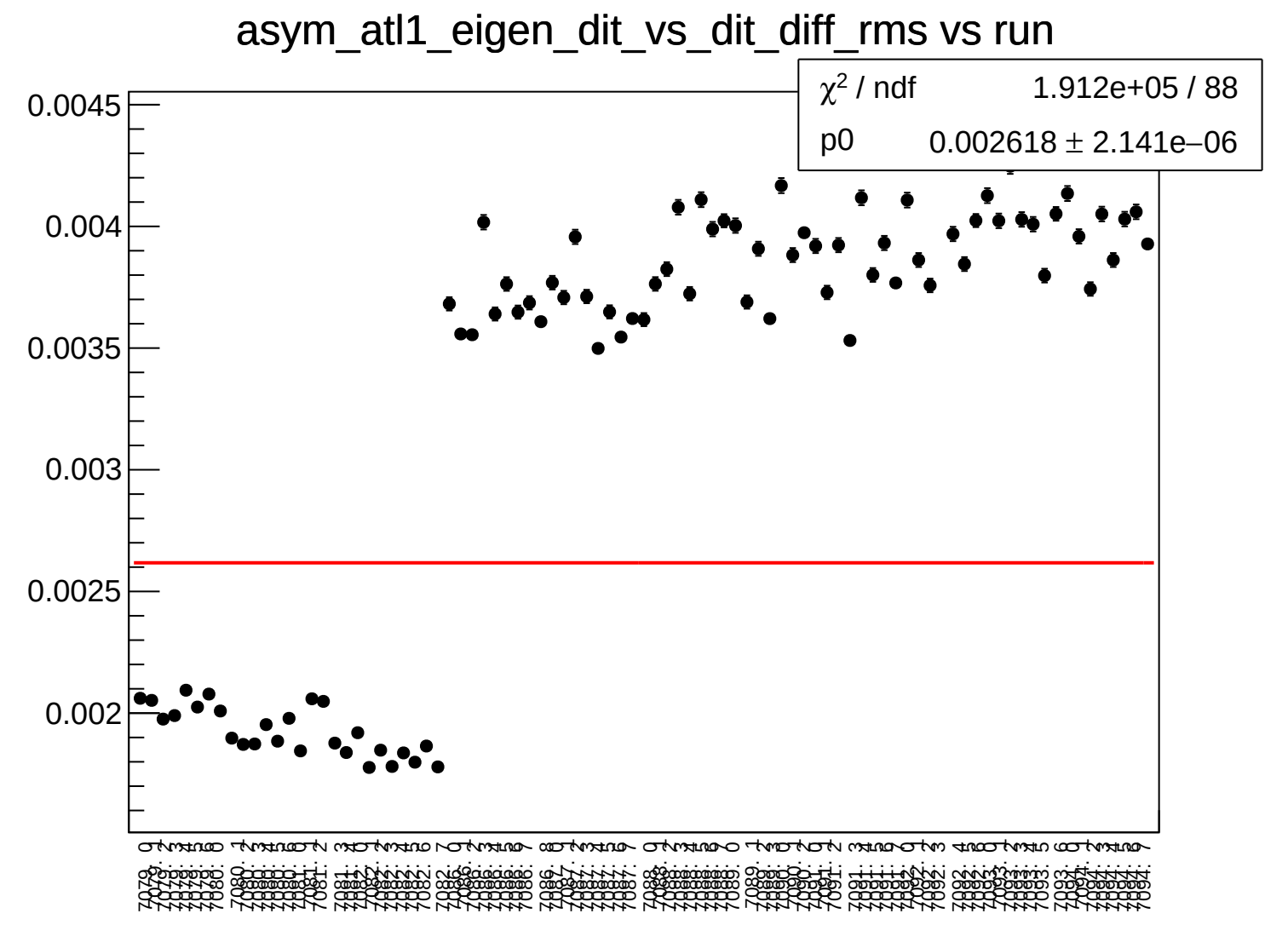

pull1D
Entries 89
Mean −0.0406
Std Dev 1.018

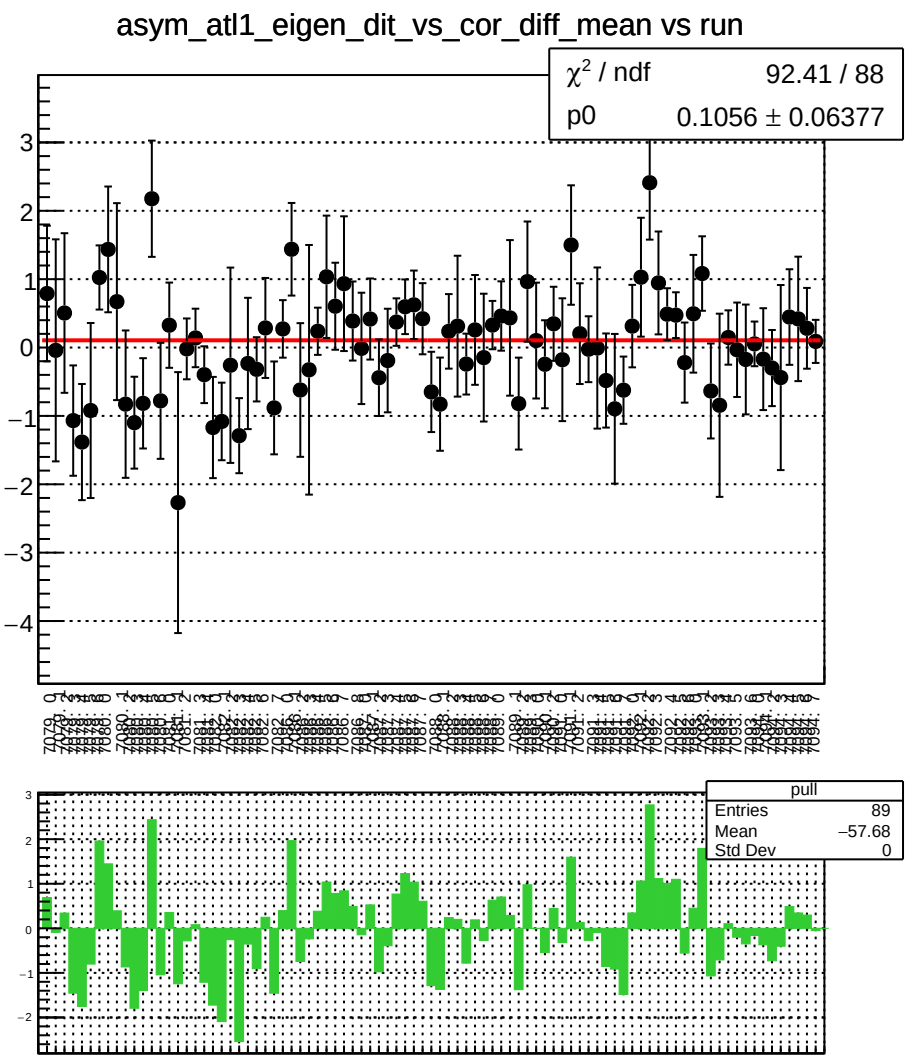

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.114e+05 / 88
p0 54.76 ± 0.0451
180
160
140
120
100
80
60
40
20

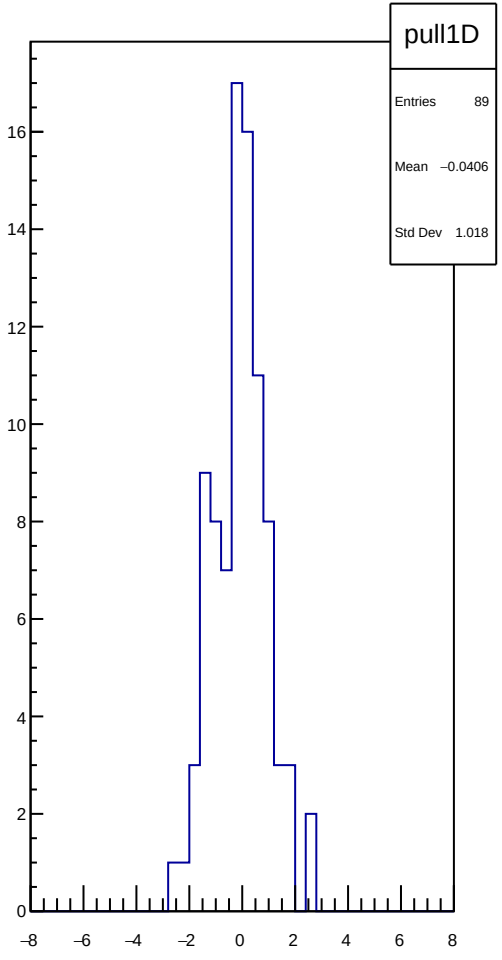

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.41 / 88
p0 0.1056 ± 0.06378
pull
Entries 89
Mean −57.69
Std Dev 0
pull1D
Entries 89
Mean −0.0406
Std Dev 1.018

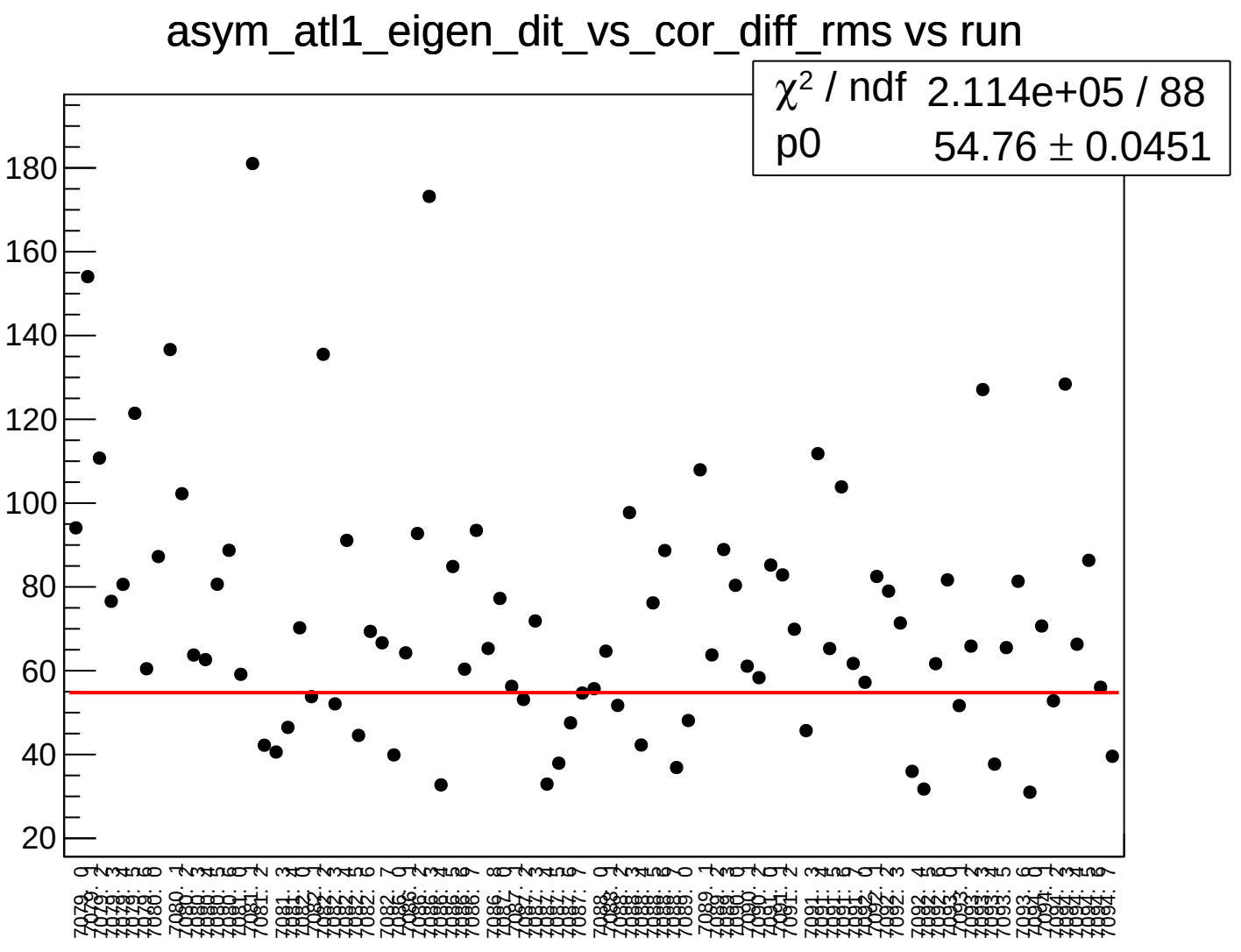

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.114e+05 / 88
p0 54.76 ± 0.0451
180
160
140
120
100
80
60
40
20

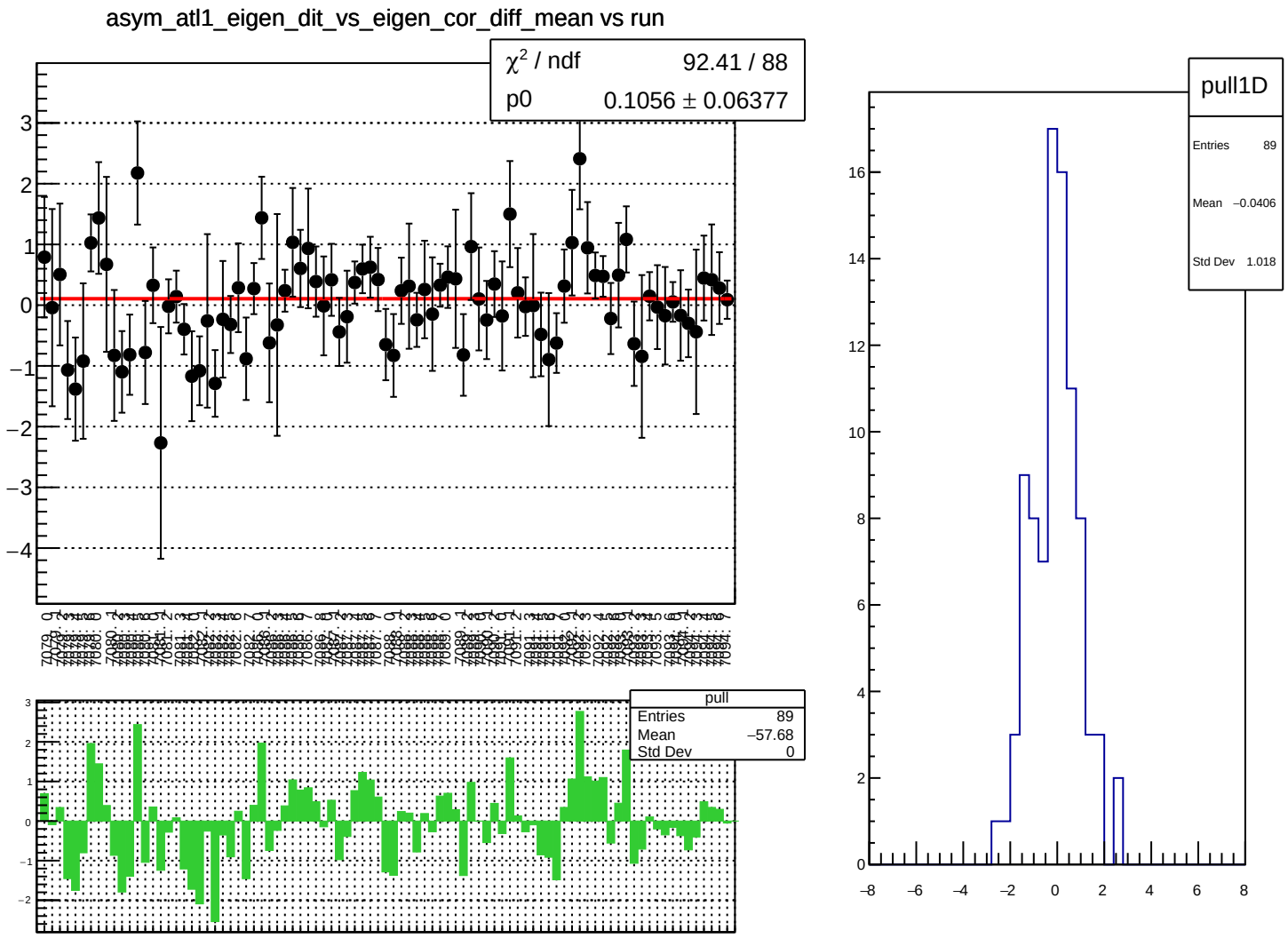

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.15 / 88
p0 −3.852e−06 ± 3.028e−06
pull
Entries 89
Mean −178.3
Std Dev 0
pull1D
Entries 89
Mean 0.003364
Std Dev 0.9189

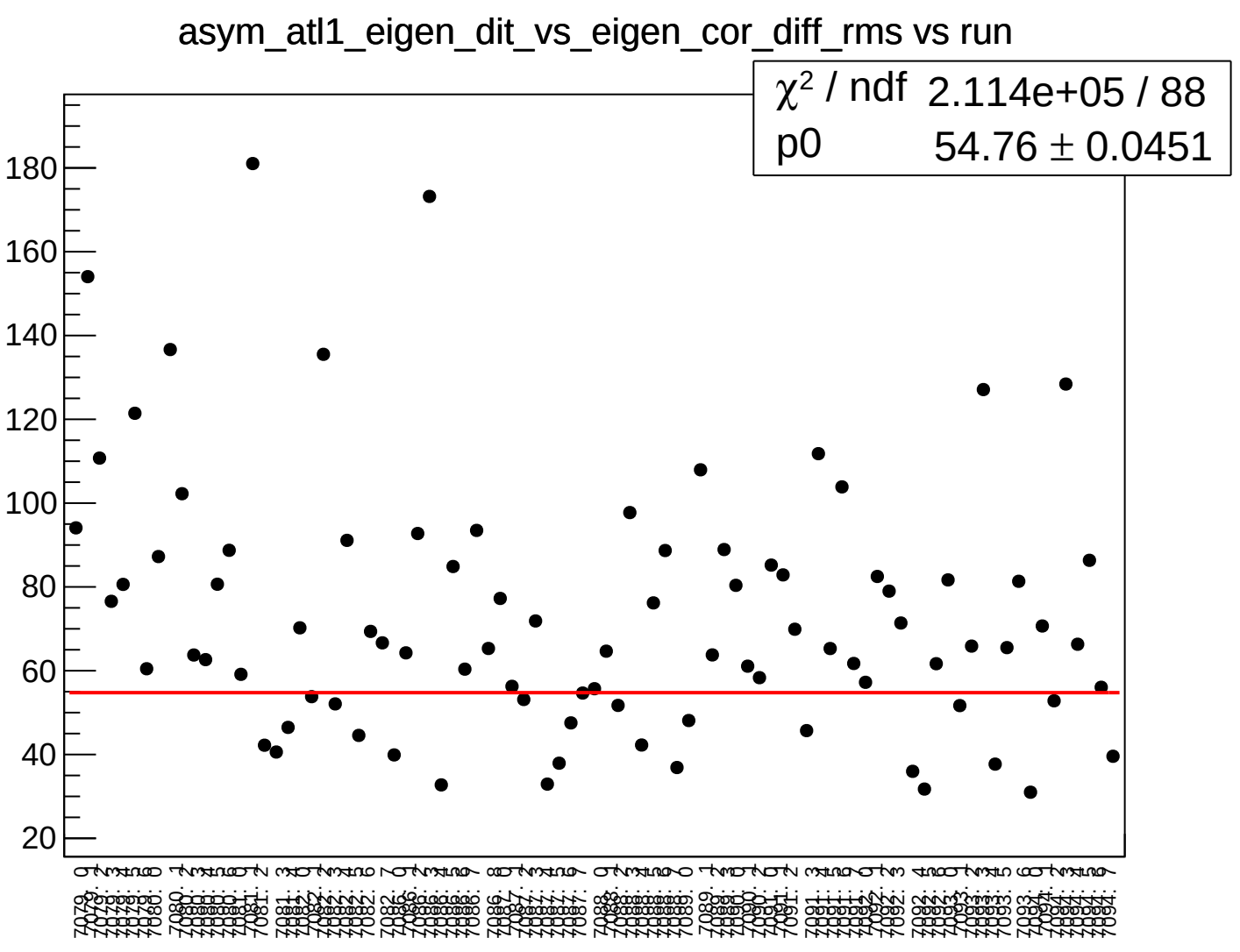

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.912e+05 / 88
p0 0.002618 ± 2.141e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

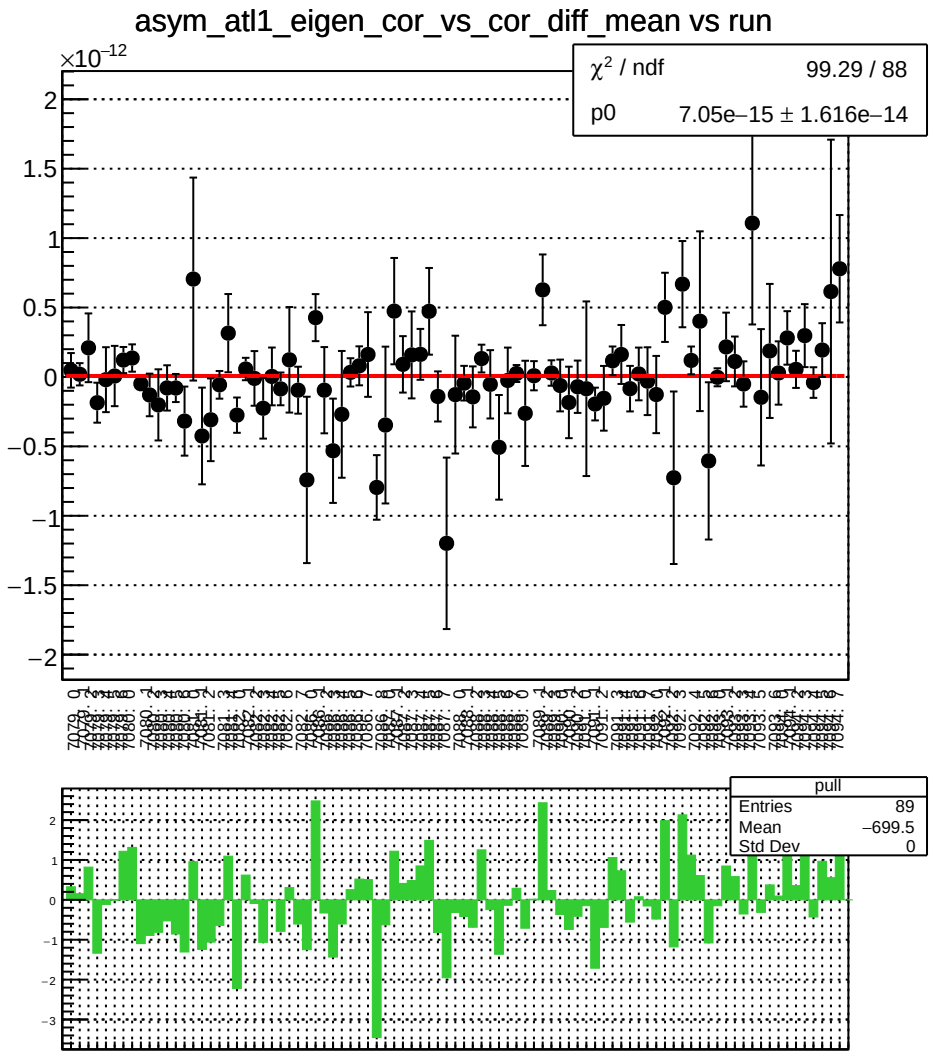

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.41 / 88
p0 0.1056 ± 0.06377
pull
Entries 89
Mean −57.68
Std Dev 0

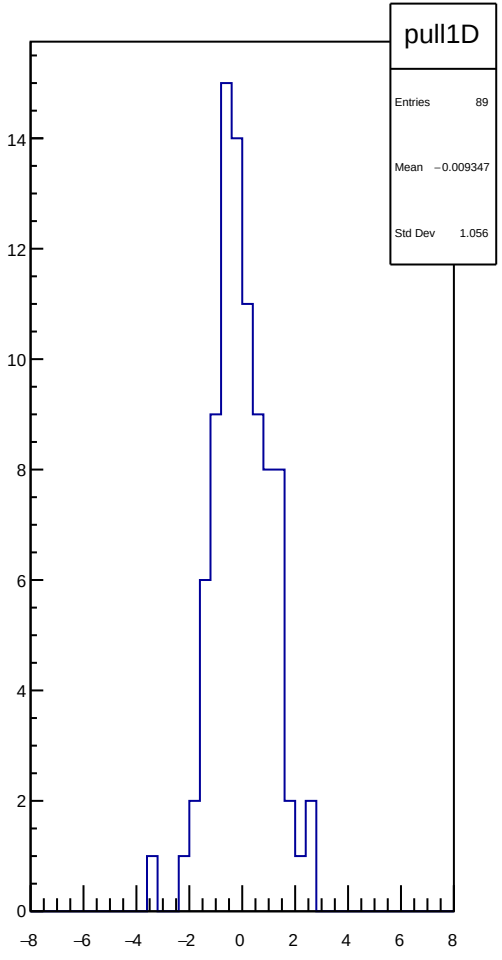

pull1D
Entries 89
Mean −0.0406
Std Dev 1.018

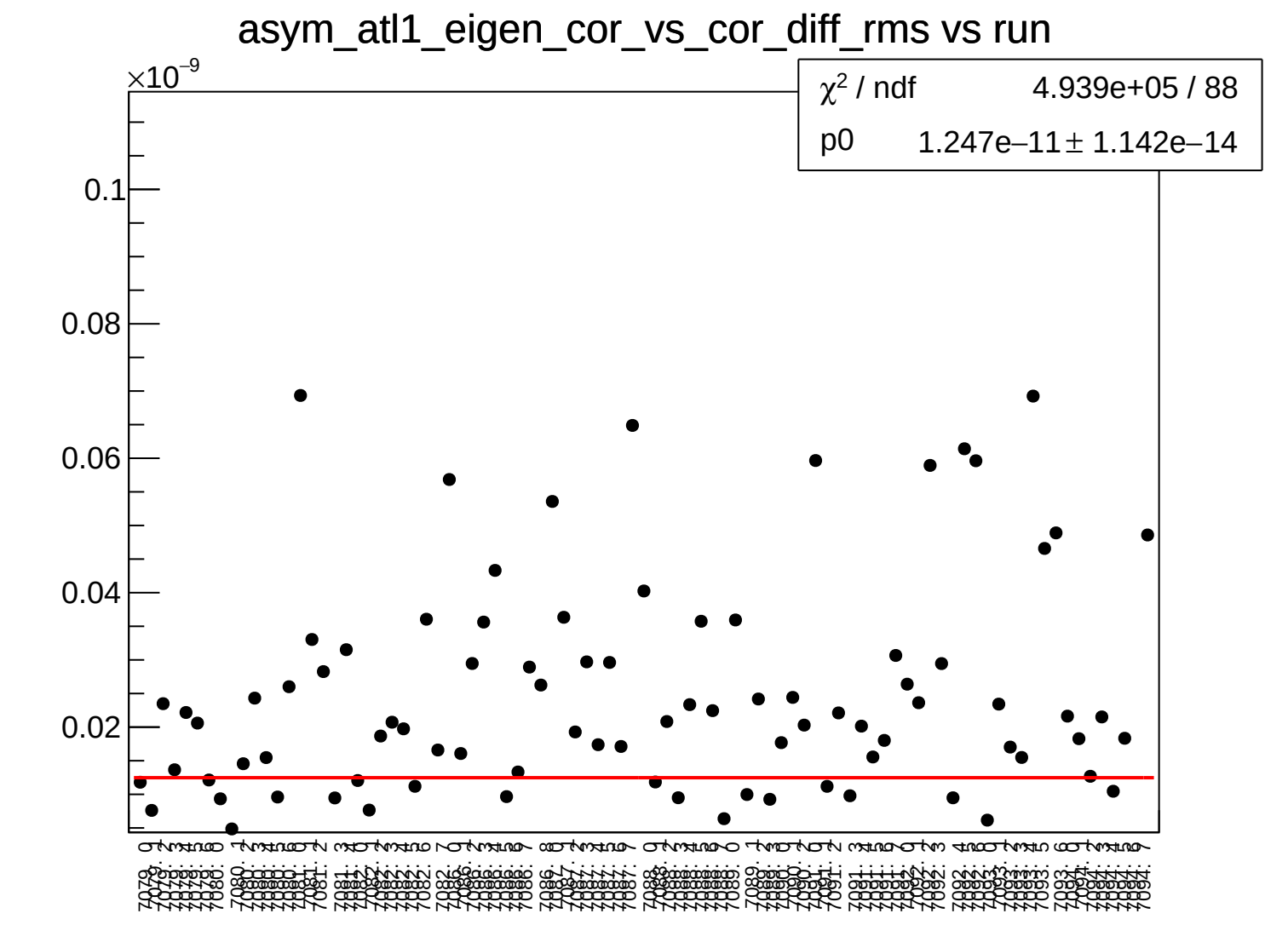

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.114e+05 / 88
p0 54.76 ± 0.0451
180
160
140
120
100
80
60
40
20

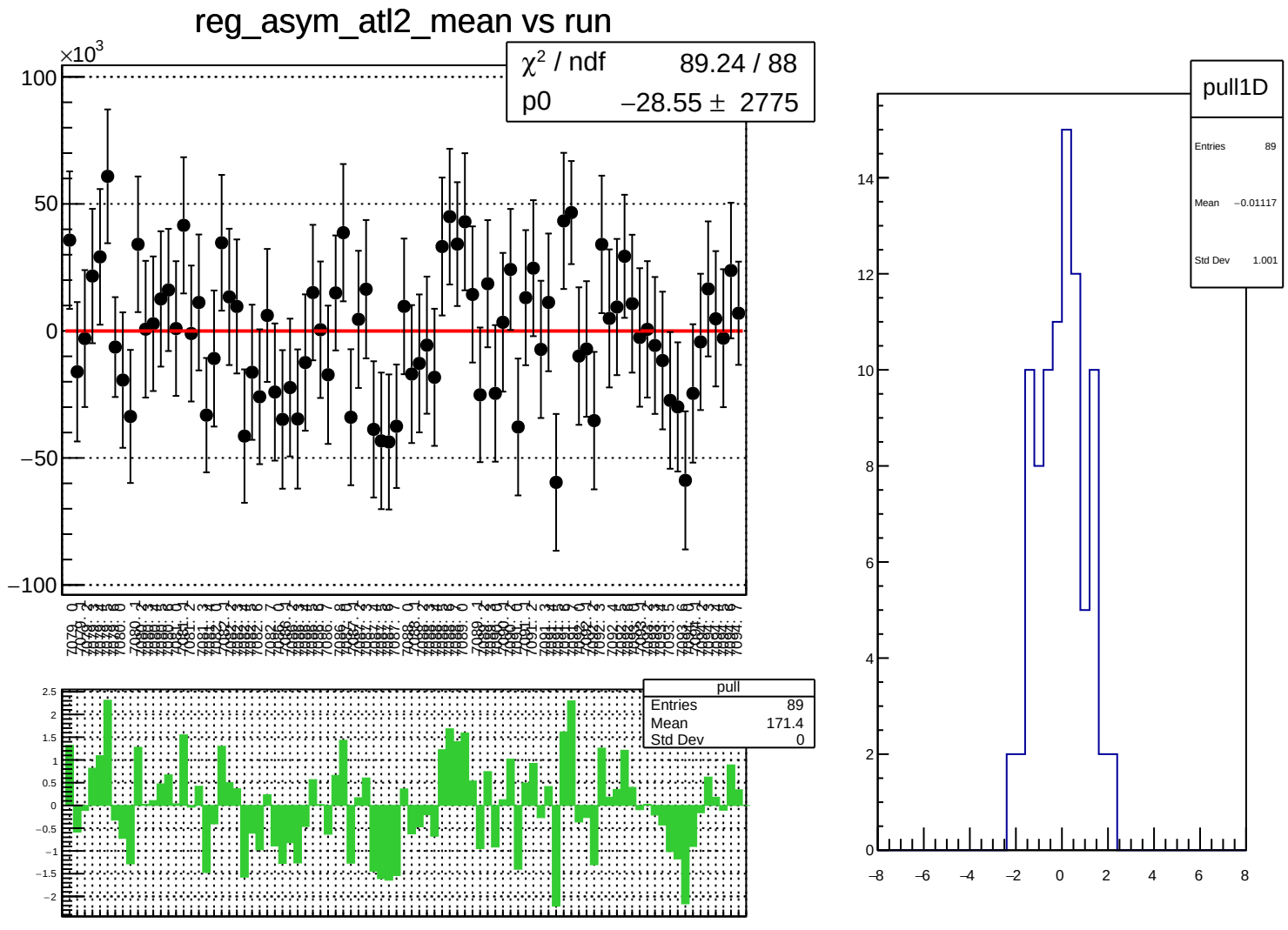

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.41 / 88
p0 0.1056 ± 0.06377
pull
Entries 89
Mean −57.68
Std Dev 0
pull1D
Entries 89
Mean −0.0406
Std Dev 1.018

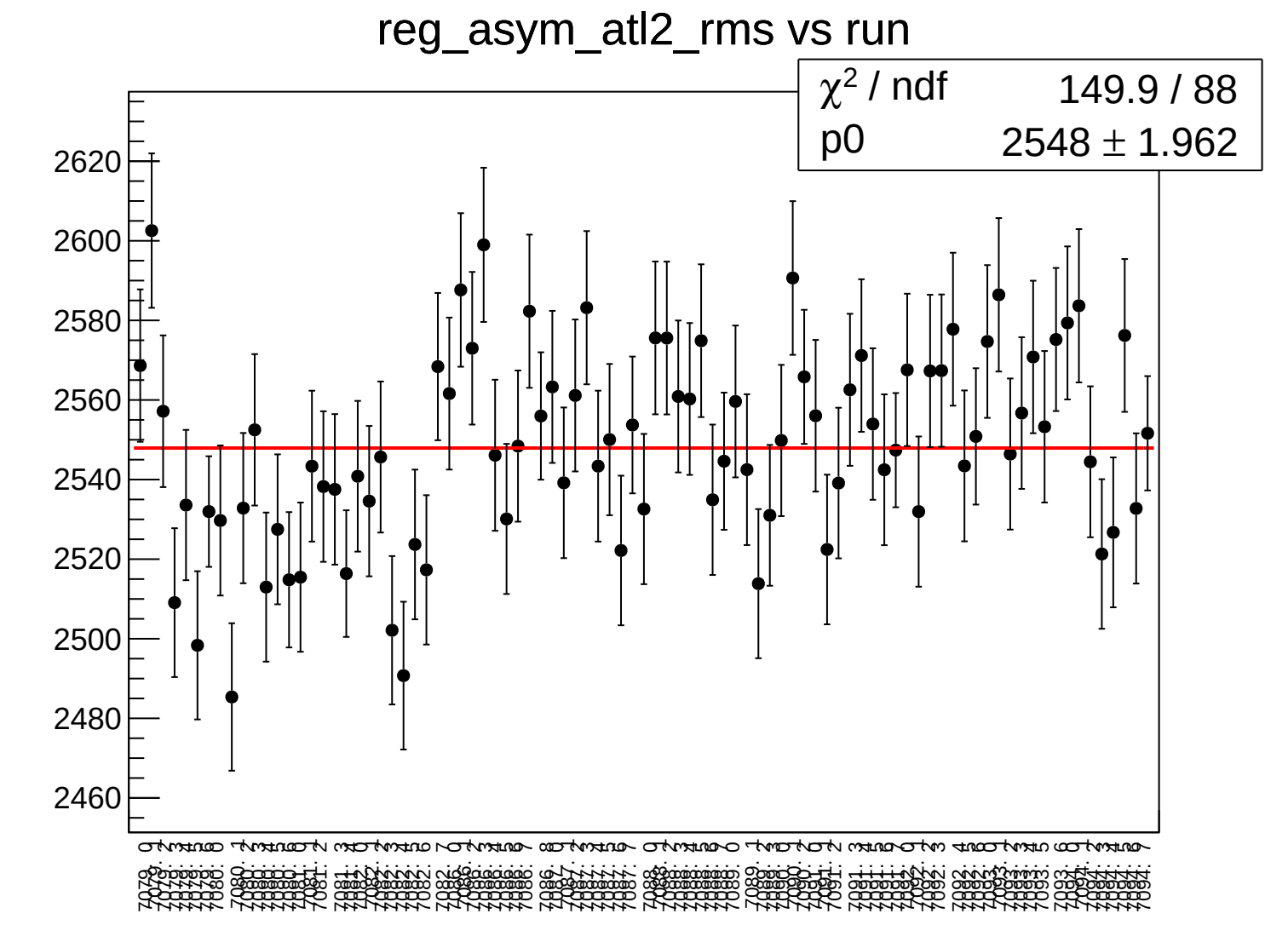

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.114e+05 / 88
p0 54.76 ± 0.0451
180
160
140
120
100
80
60
40
20

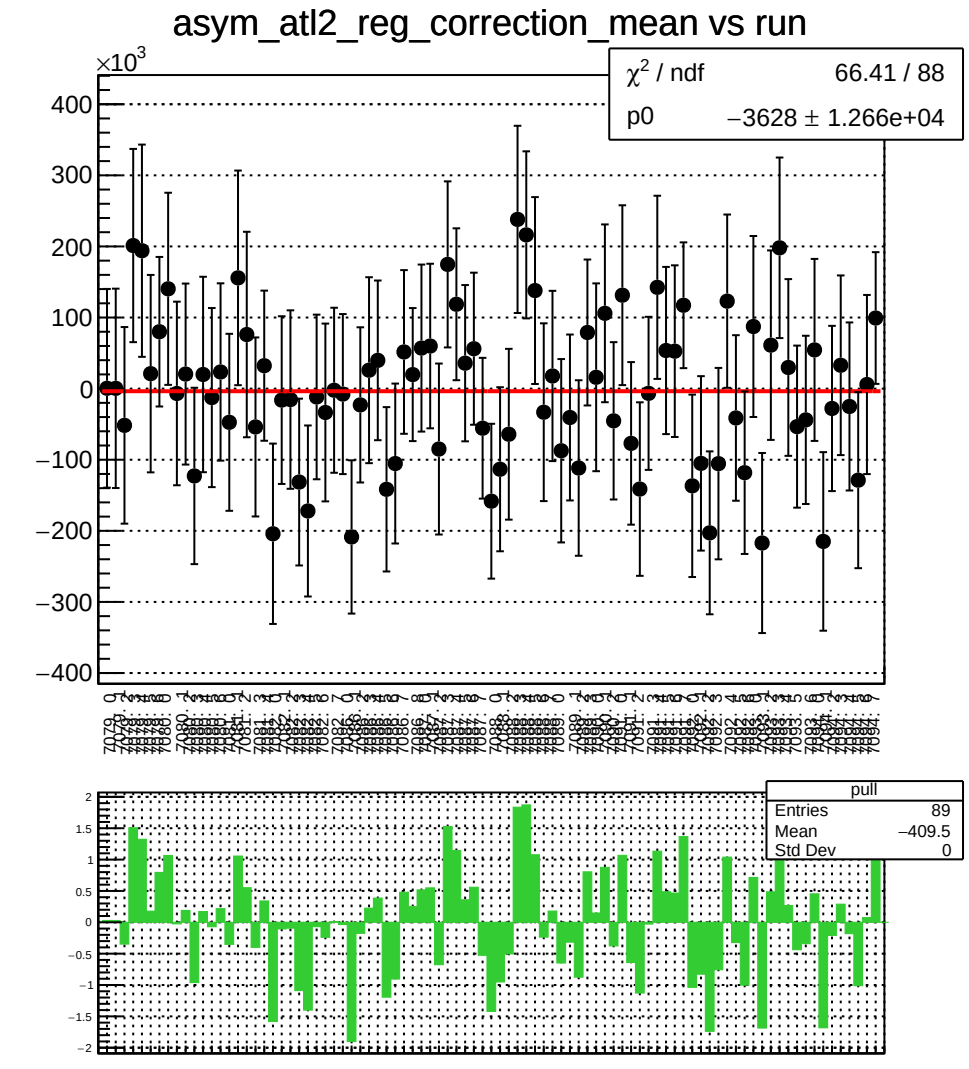

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.29 / 88
p0 7.05e−15 ± 1.616e−14
pull
Entries 89
Mean −699.5
Std Dev 0

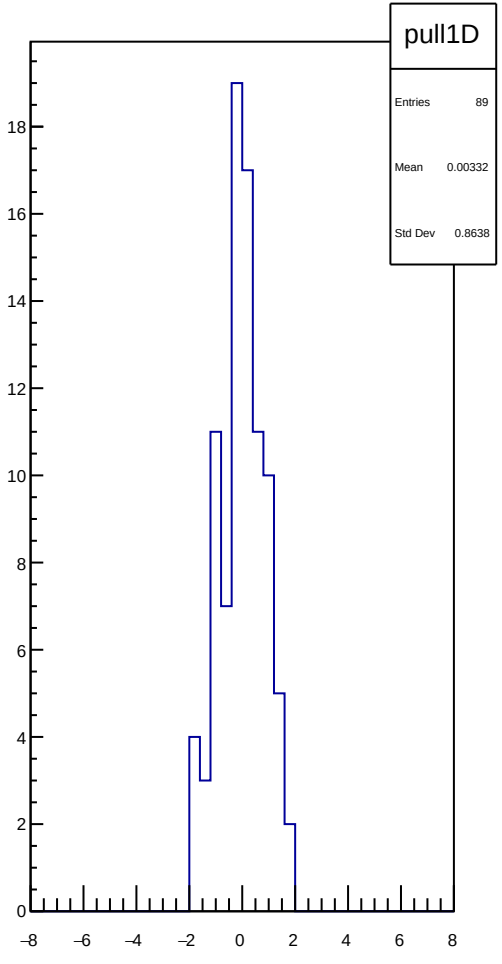

pull1D
Entries 89
Mean −0.009347
Std Dev 1.056

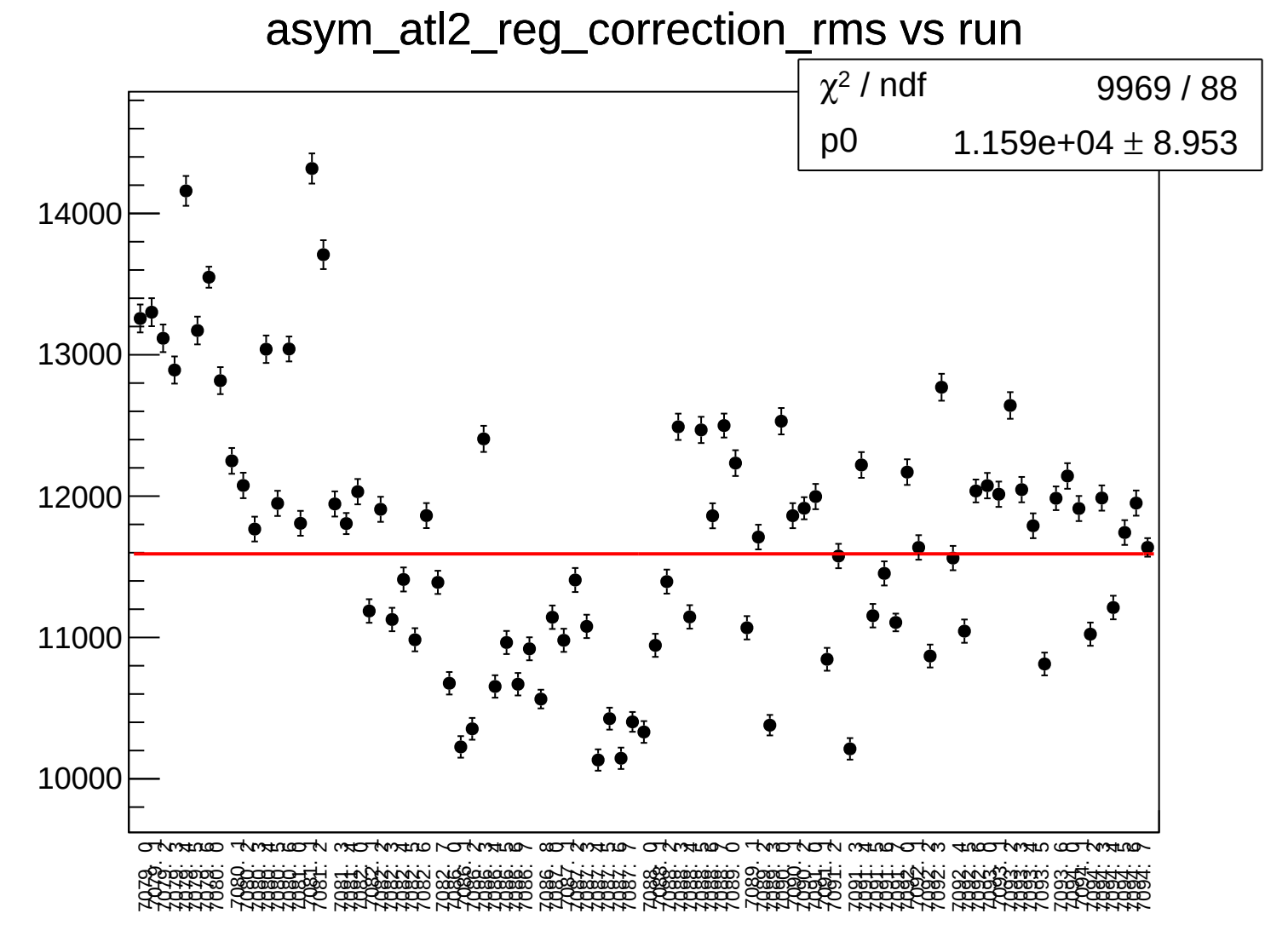

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.939e+05 / 88
p0 1.247e−11 ± 1.142e−14
0.1
0.08
0.06
0.04
0.02

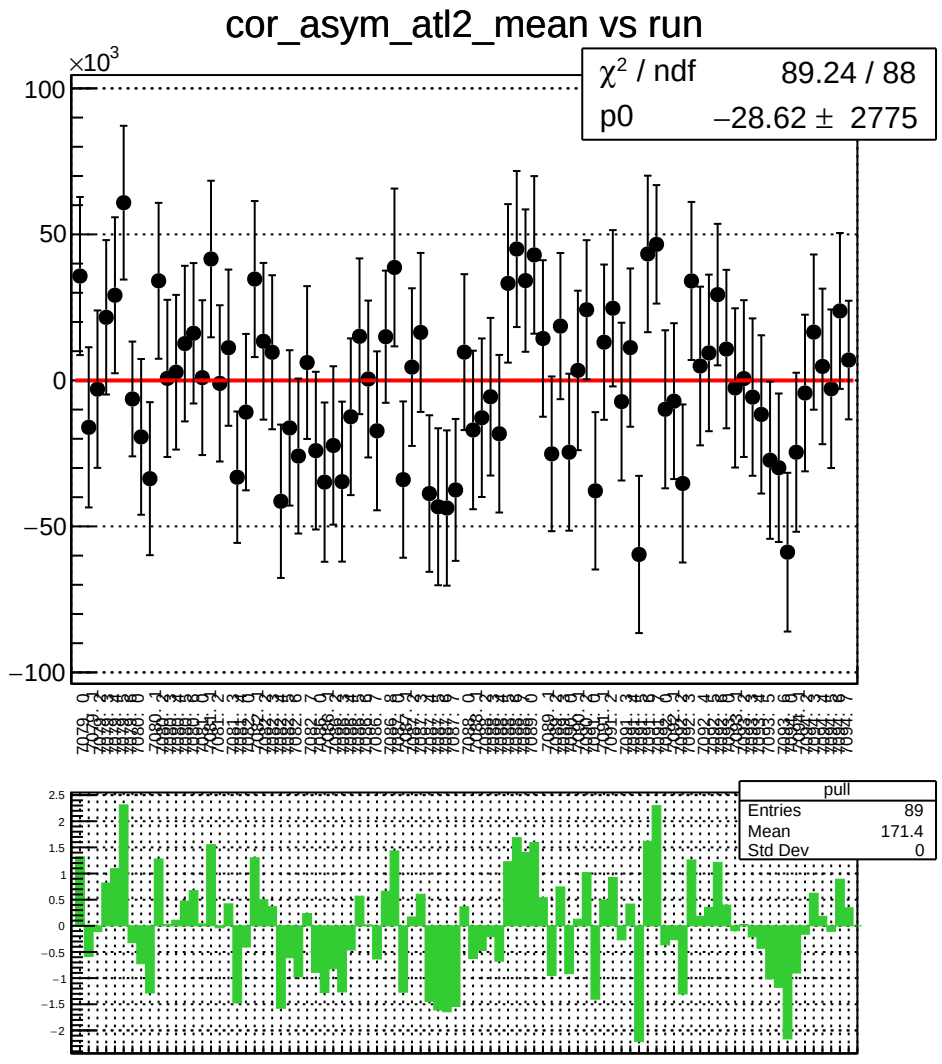

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 89.24 / 88
p0 −28.55 ± 2775
100
50
0
−50
−100
pull
Entries 89
Mean 171.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01117
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

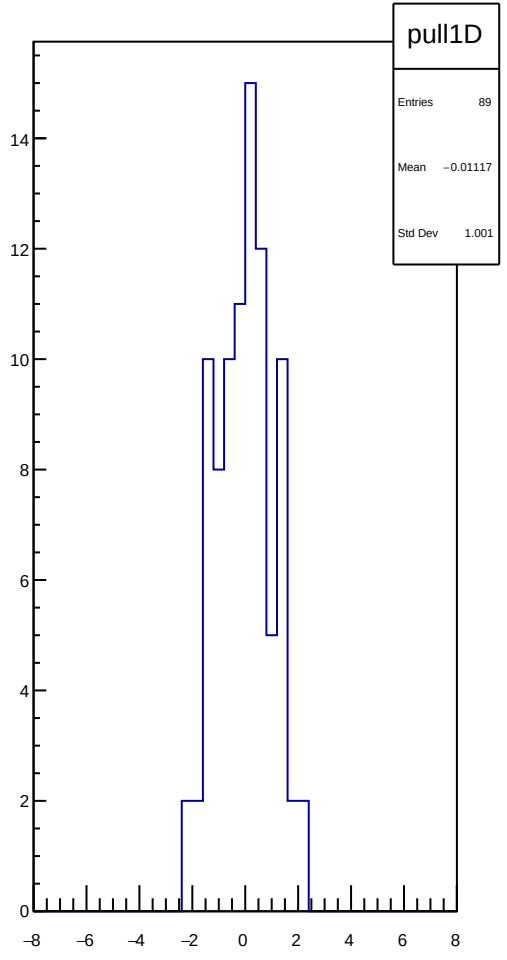

reg_asym_atl2_rms vs run
χ^2 / ndf 149.9 / 88
p0 2548 ± 1.962
2620
2600
2580
2560
2540
2520
2500
2480
2460

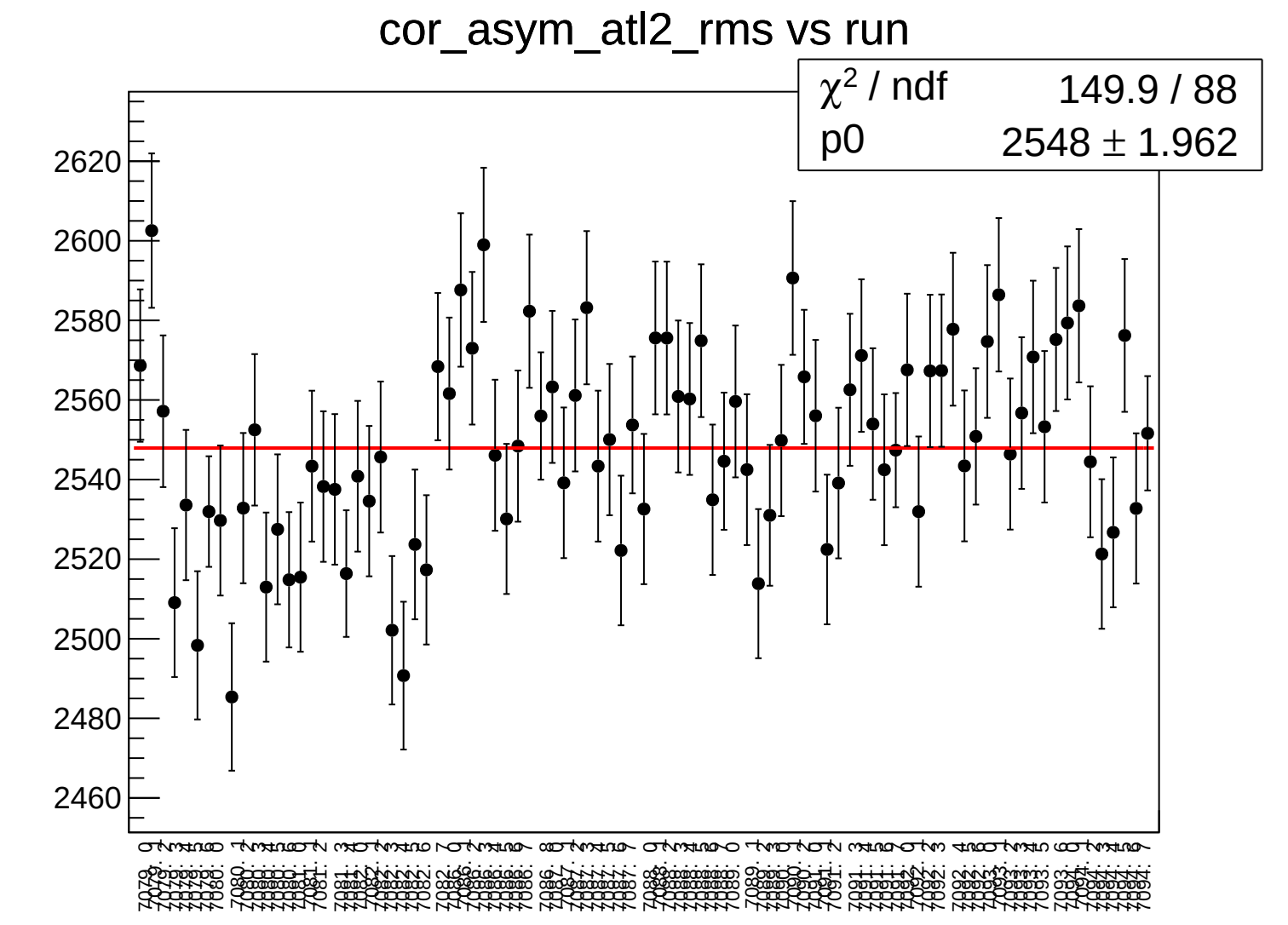

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 66.41 / 88
p0 −3628 ± 1.266e+04
pull
Entries 89
Mean −409.5
Std Dev 0

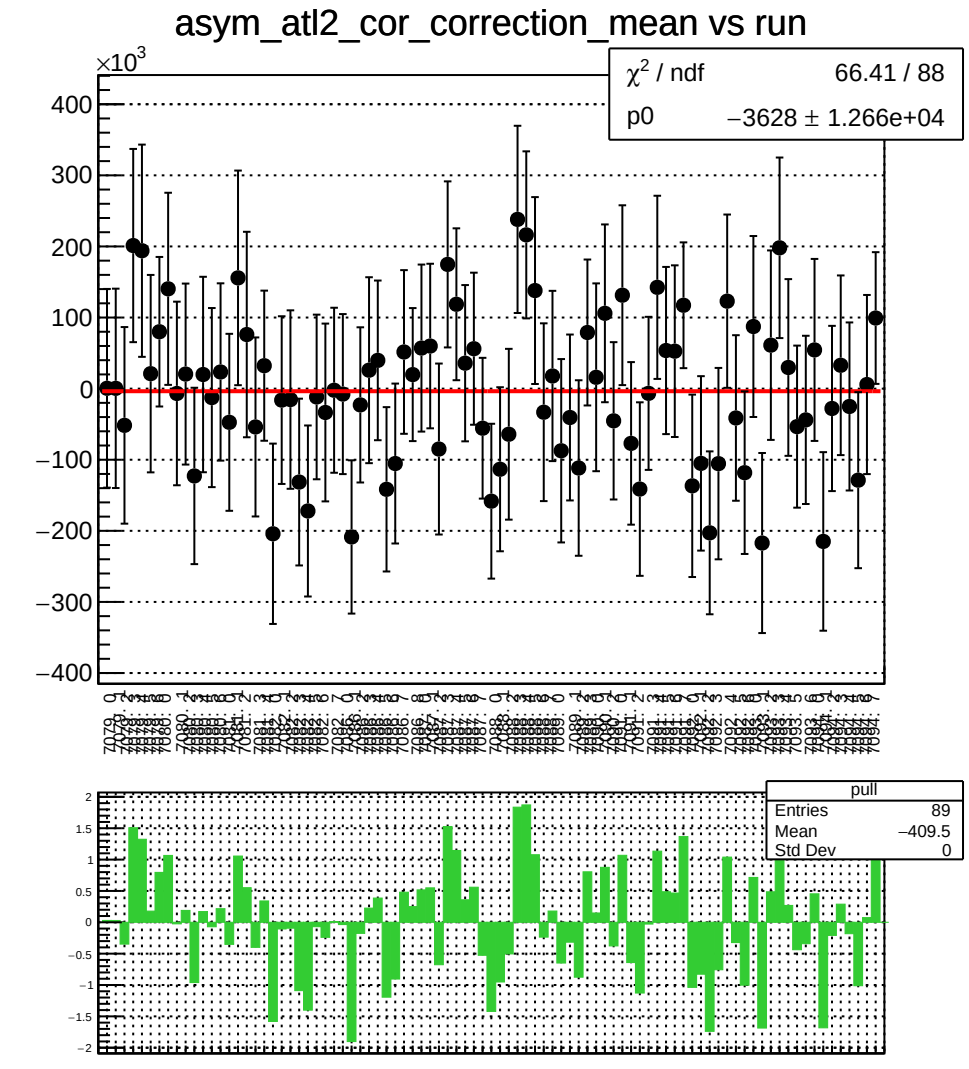

pull1D
Entries 89
Mean 0.00332
Std Dev 0.8638

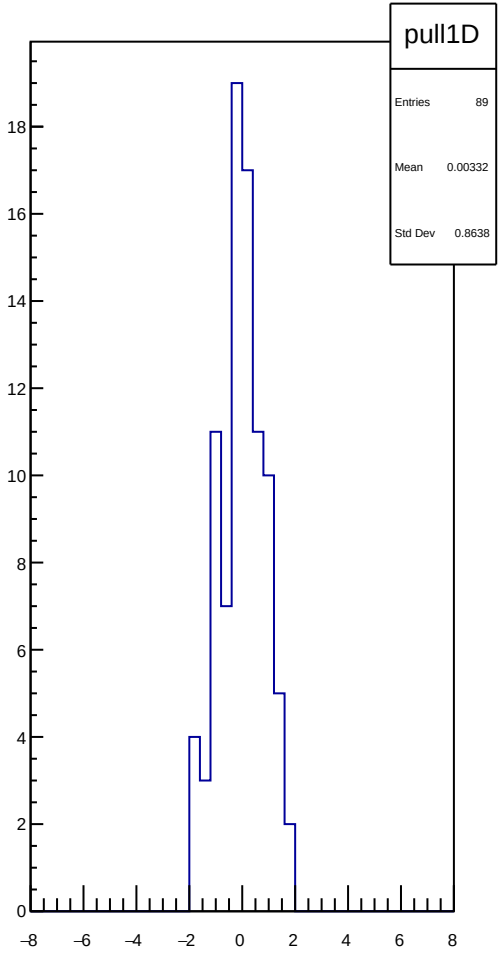

asym_atl2_reg_correction_rms vs run
χ² / ndf 9969 / 88
p0 1.159e+04 ± 8.953
14000
13000
12000
11000
10000

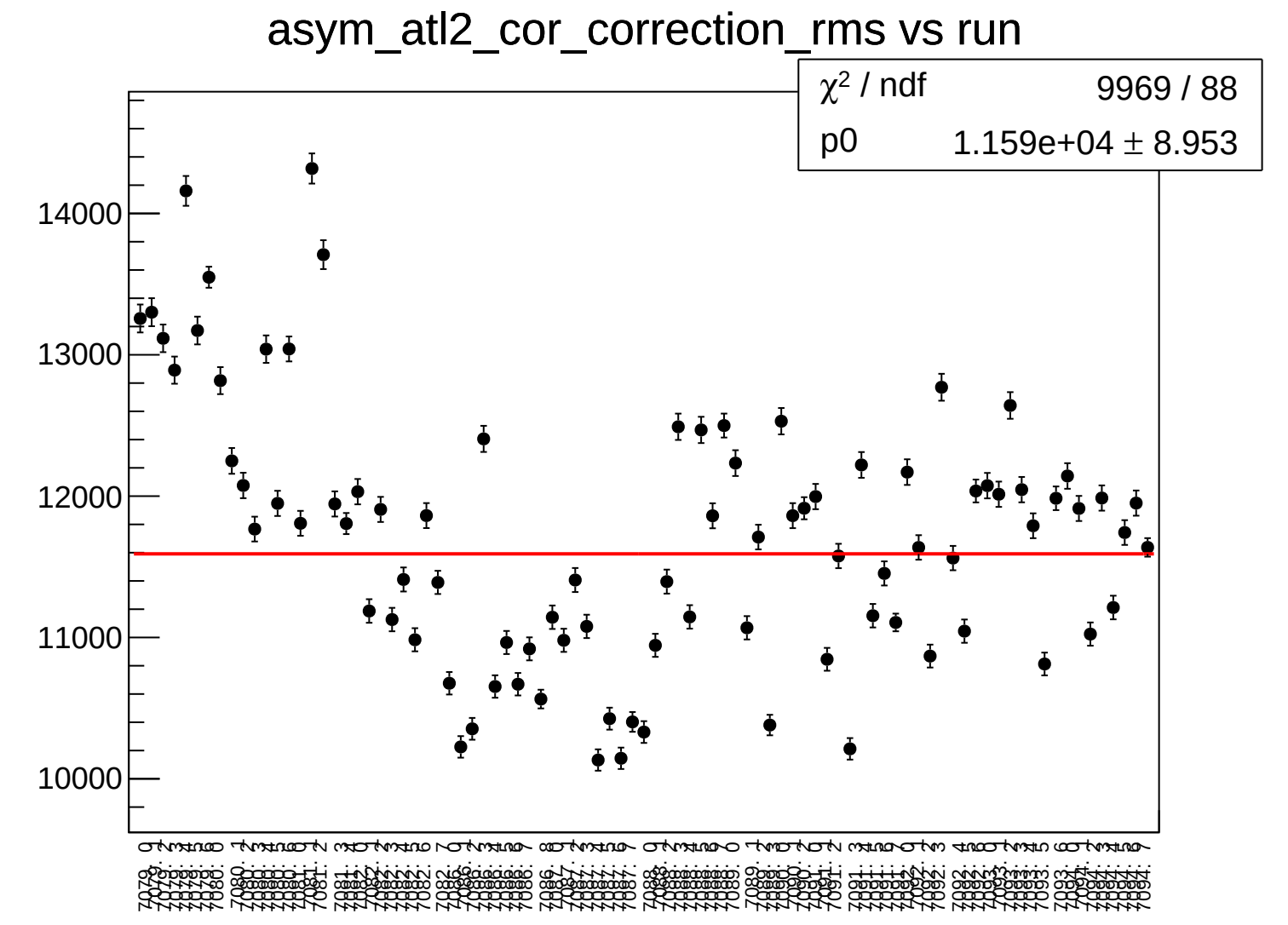

cor_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 89.24 / 88
p0 −28.62 ± 2775
pull
Entries 89
Mean 171.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

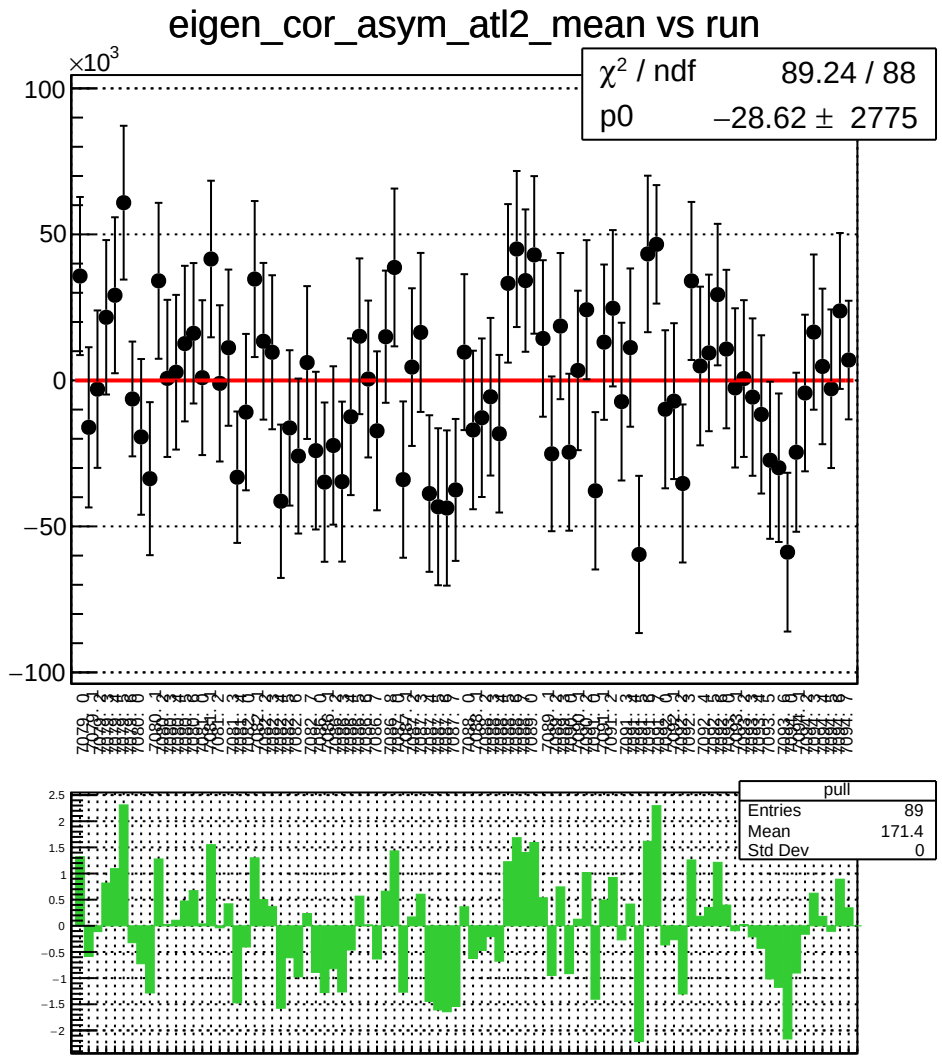

pull1D
Entries 89
Mean −0.01117
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

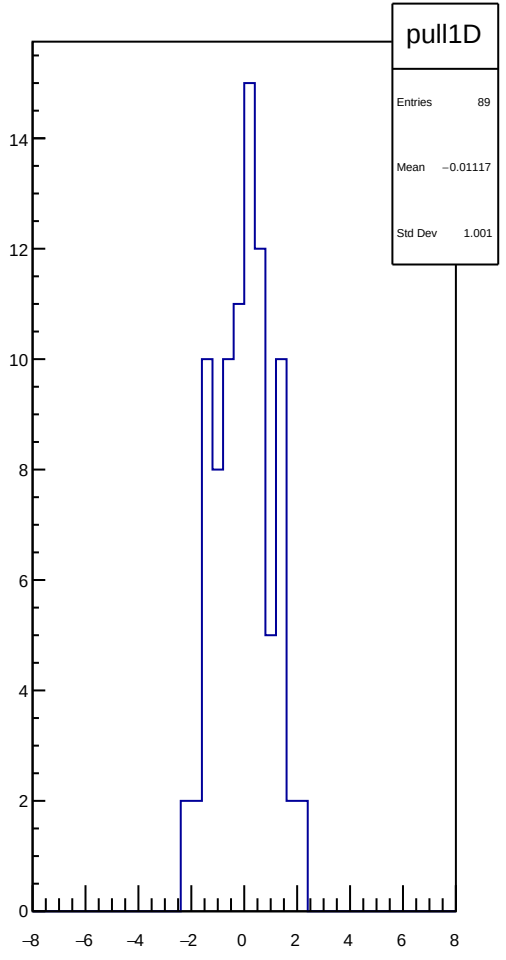

cor_asym_atl2_rms vs run
χ^2 / ndf 149.9 / 88
p0 2548 ± 1.962
2620
2600
2580
2560
2540
2520
2500
2480
2460

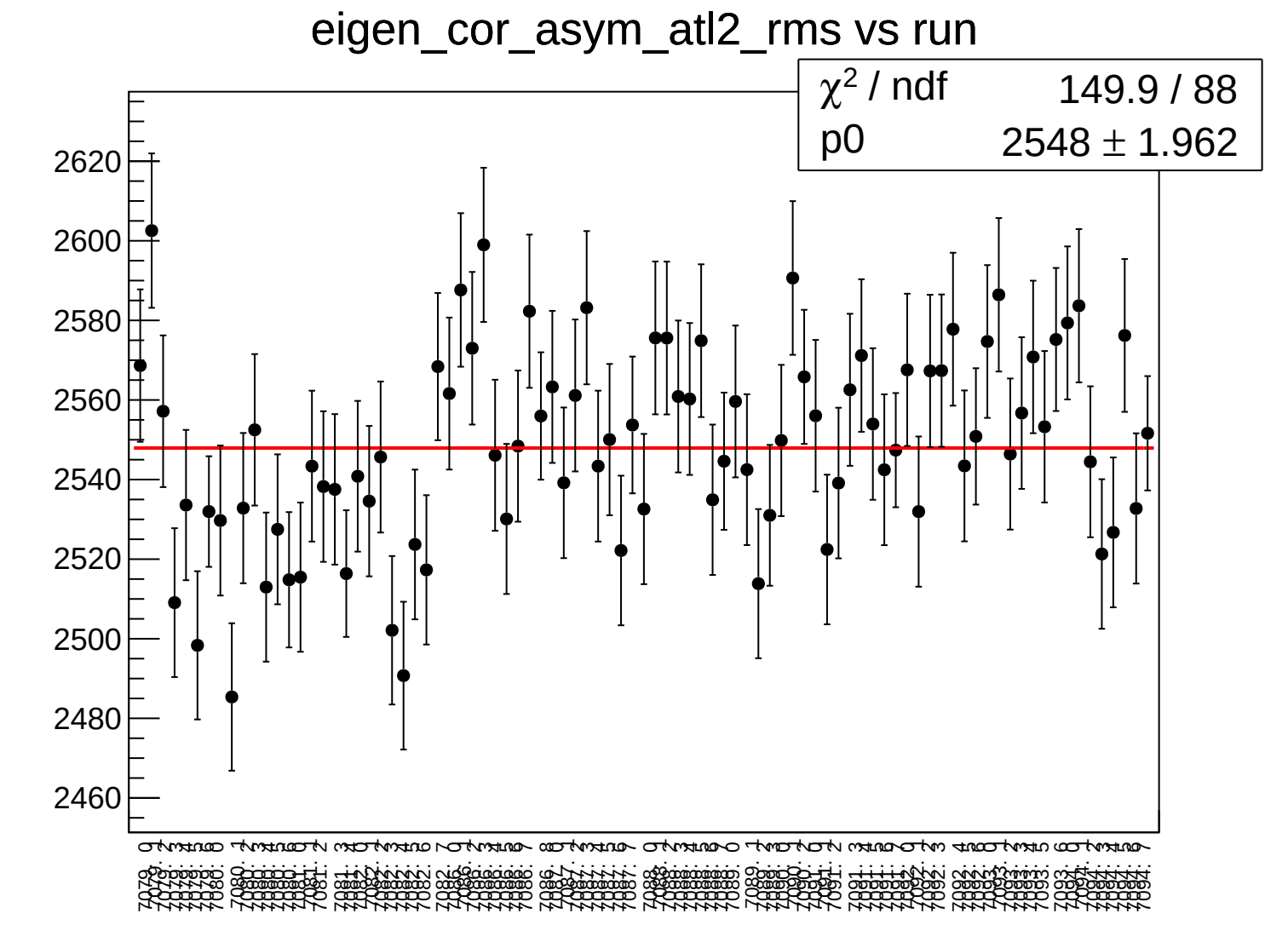

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 66.41 / 88
p0 −3628 ± 1.266e+04
pull
Entries 89
Mean −409.5
Std Dev 0

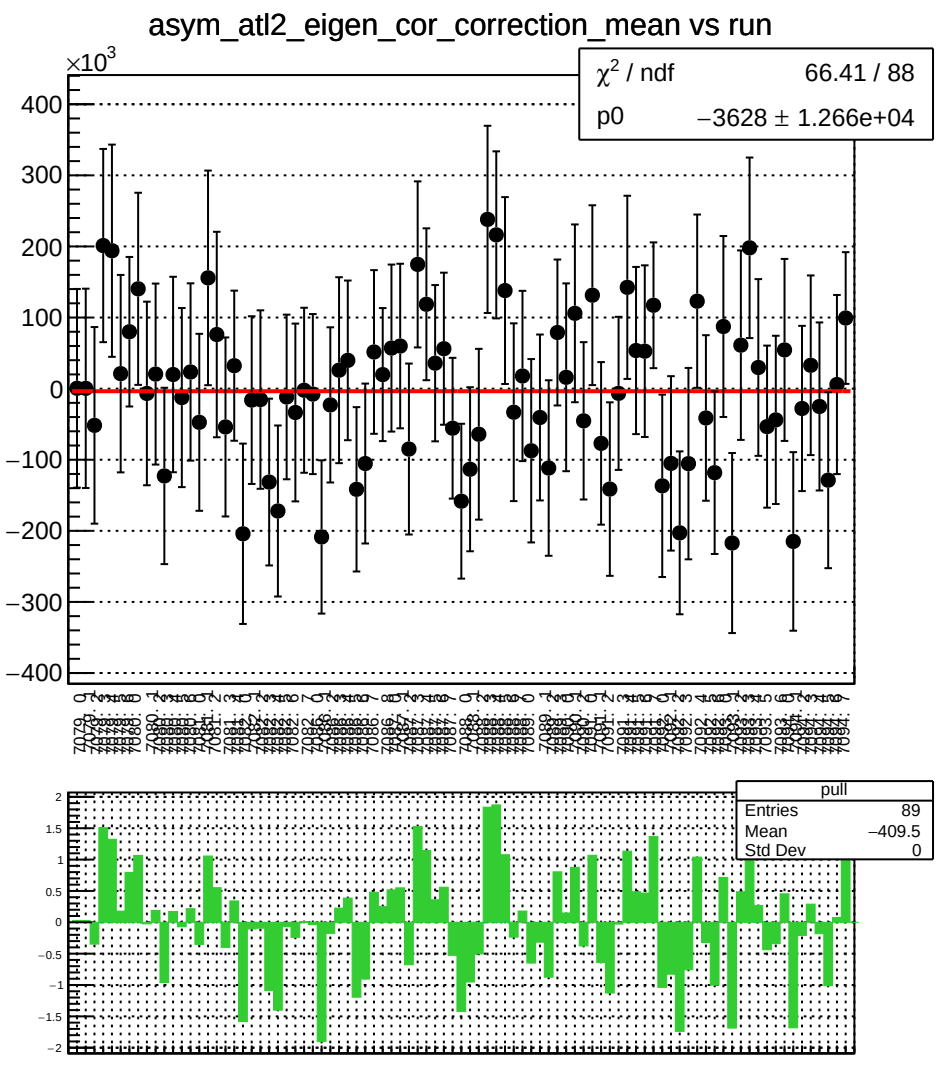

pull1D
Entries 89
Mean 0.00332
Std Dev 0.8638

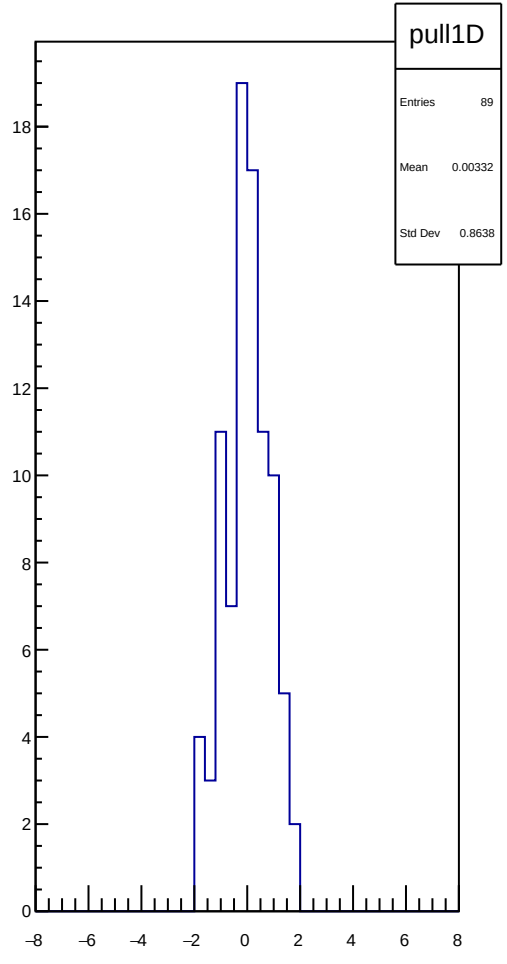

asym_atl2_cor_correction_rms vs run
χ² / ndf 9969 / 88
p0 1.159e+04 ± 8.953
14000
13000
12000
11000
10000

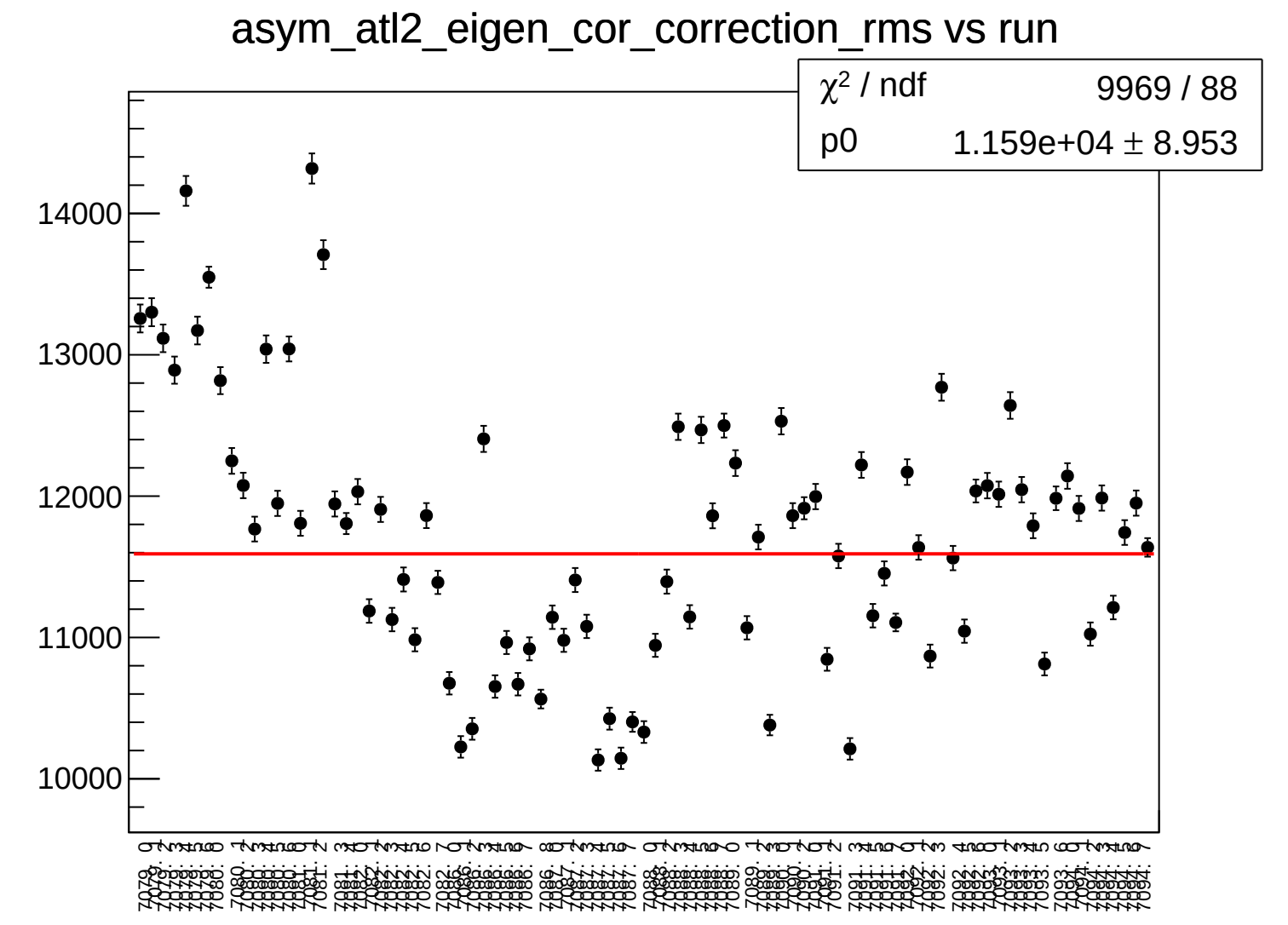

eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 89.24 / 88
p0 −28.62 ± 2775
100
50
0
−50
−100
pull
Entries 89
Mean 171.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

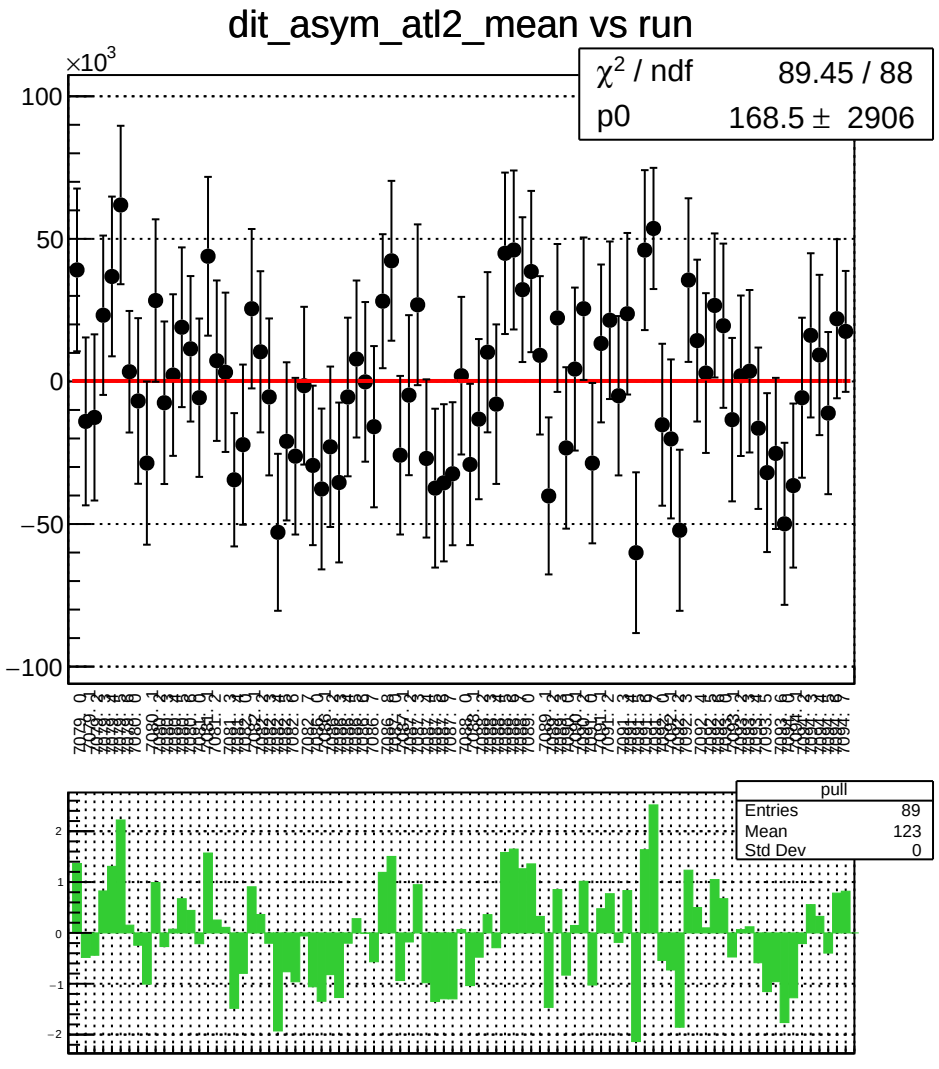

pull1D
Entries 89
Mean −0.01117
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

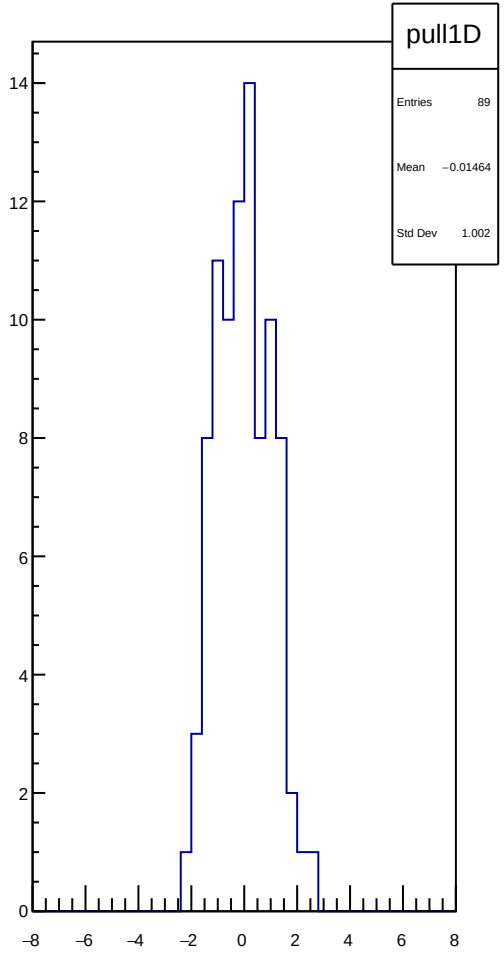

eigen_cor_asym_atl2_rms vs run
χ^2 / ndf 149.9 / 88
p0 2548 ± 1.962
2620
2600
2580
2560
2540
2520
2500
2480
2460

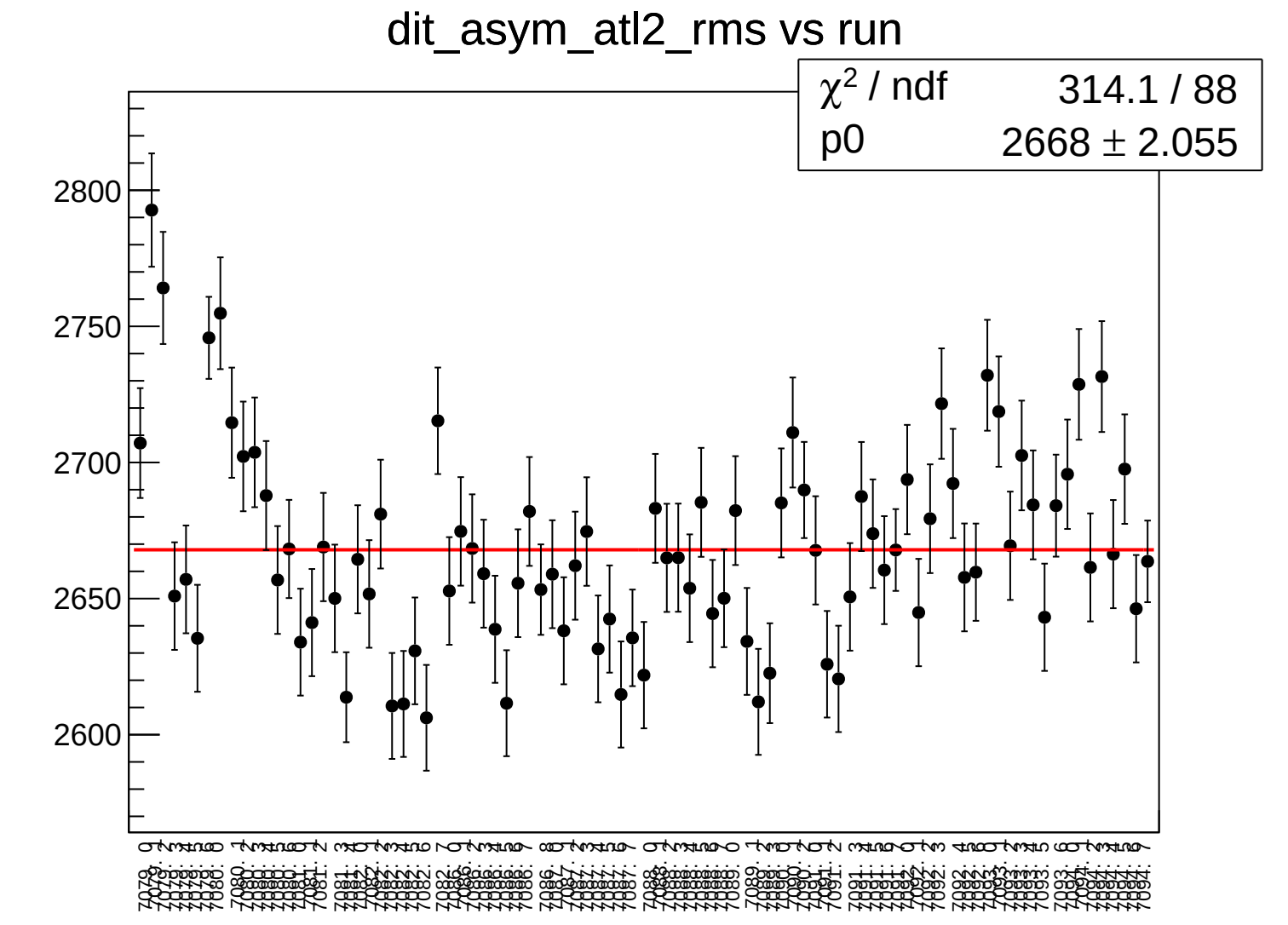

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.41 / 88
p0 −3628 ± 1.266e+04
pull
Entries 89
Mean −409.5
Std Dev 0

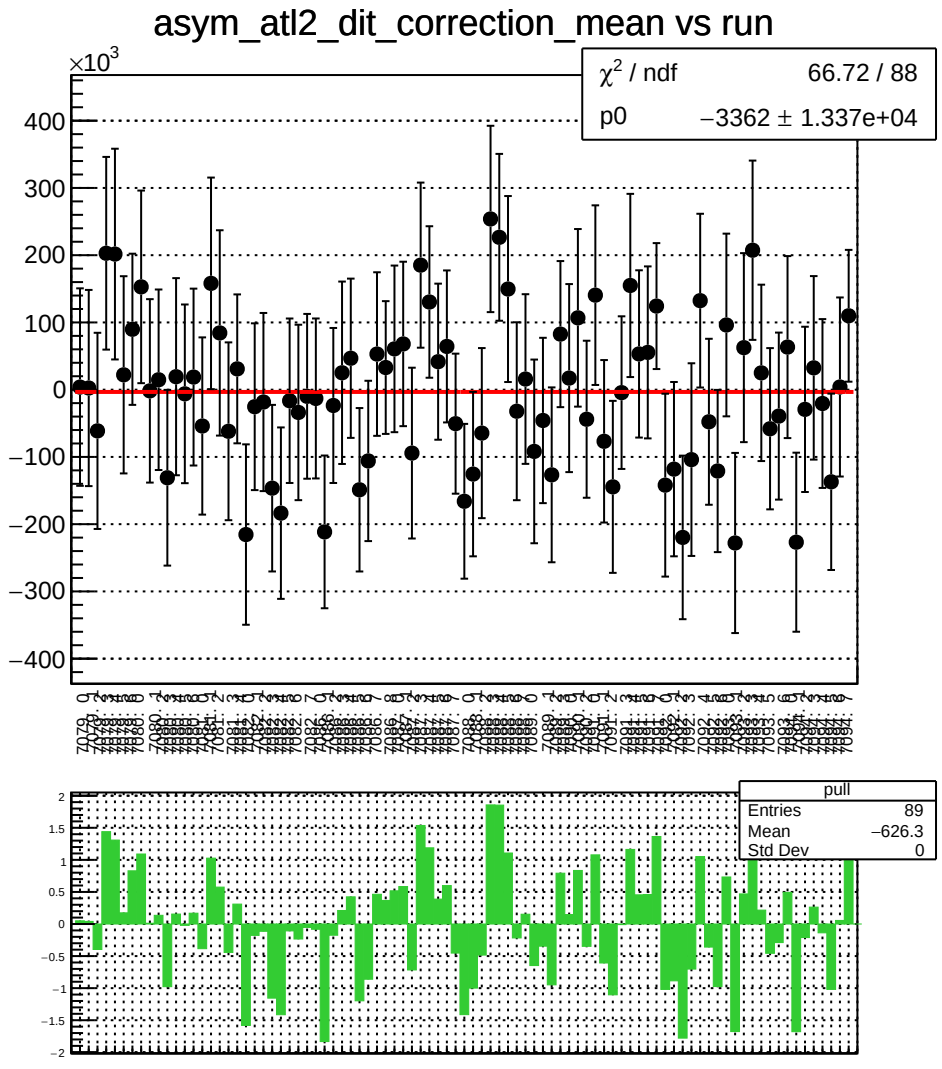

pull1D
Entries 89
Mean 0.00332
Std Dev 0.8638

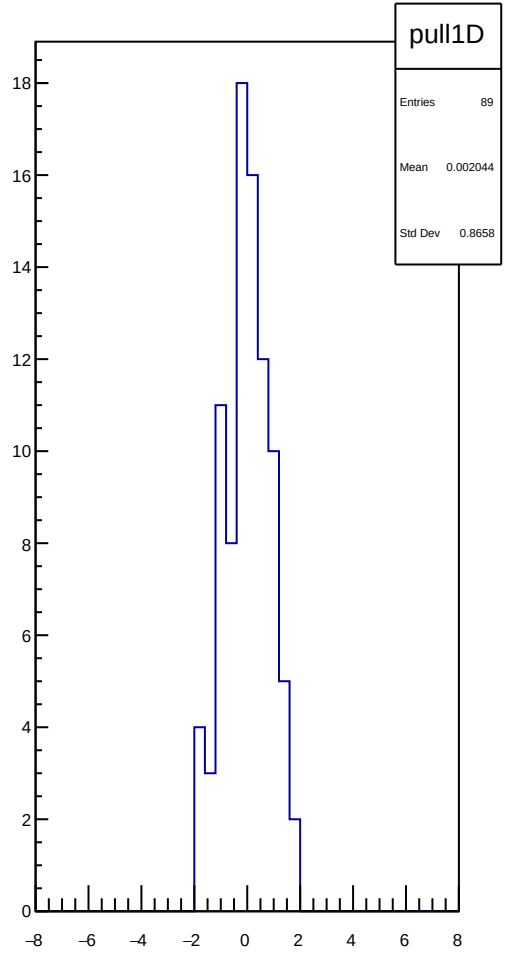

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 9969 / 88
p0 1.159e+04 ± 8.953
14000
13000
12000
11000
10000

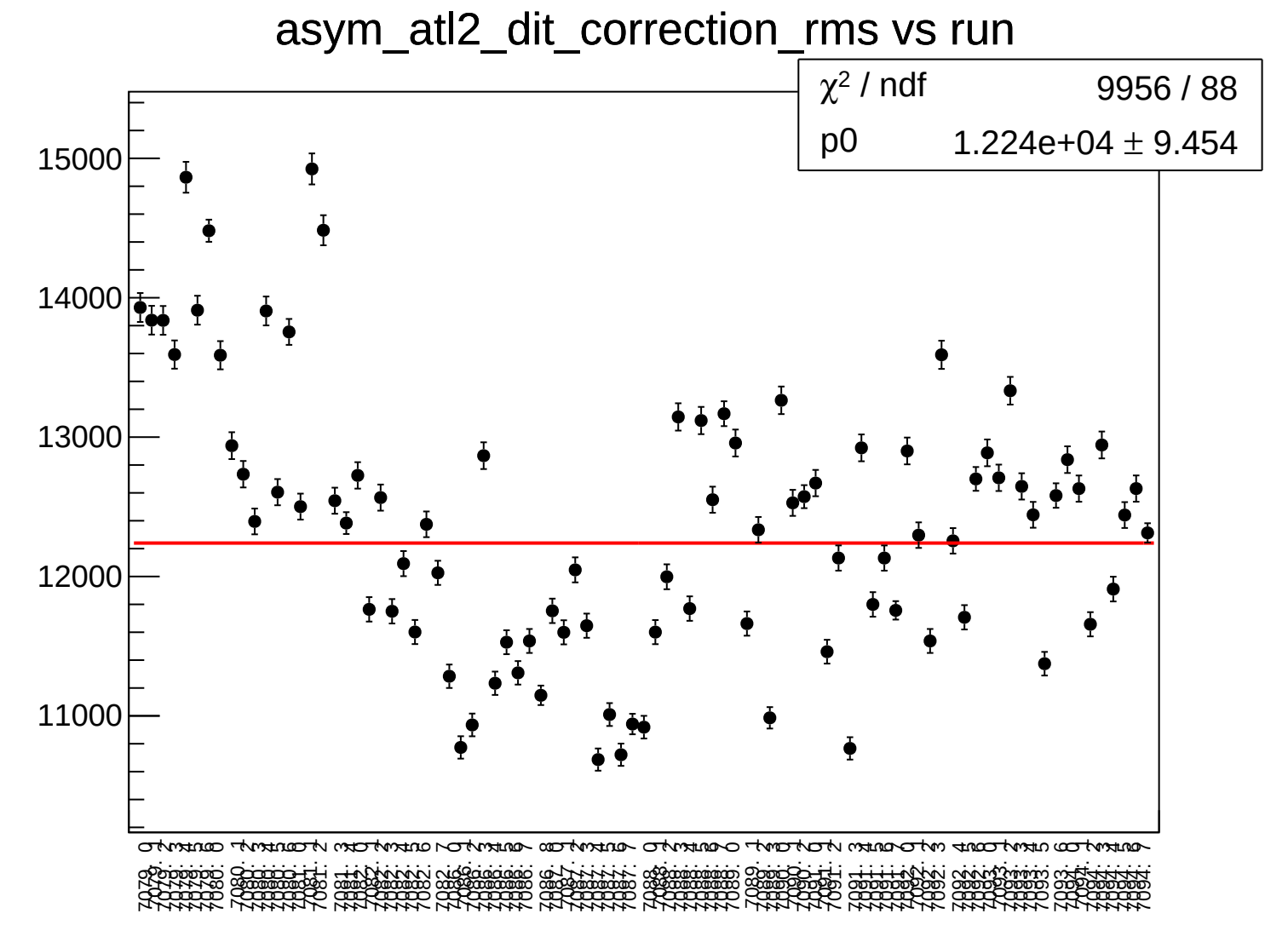

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 89.45 / 88
p0 168.5 ± 2906
100
50
0
−50
−100
pull
Entries 89
Mean 123
Std Dev 0
2
1
0
−1
−2

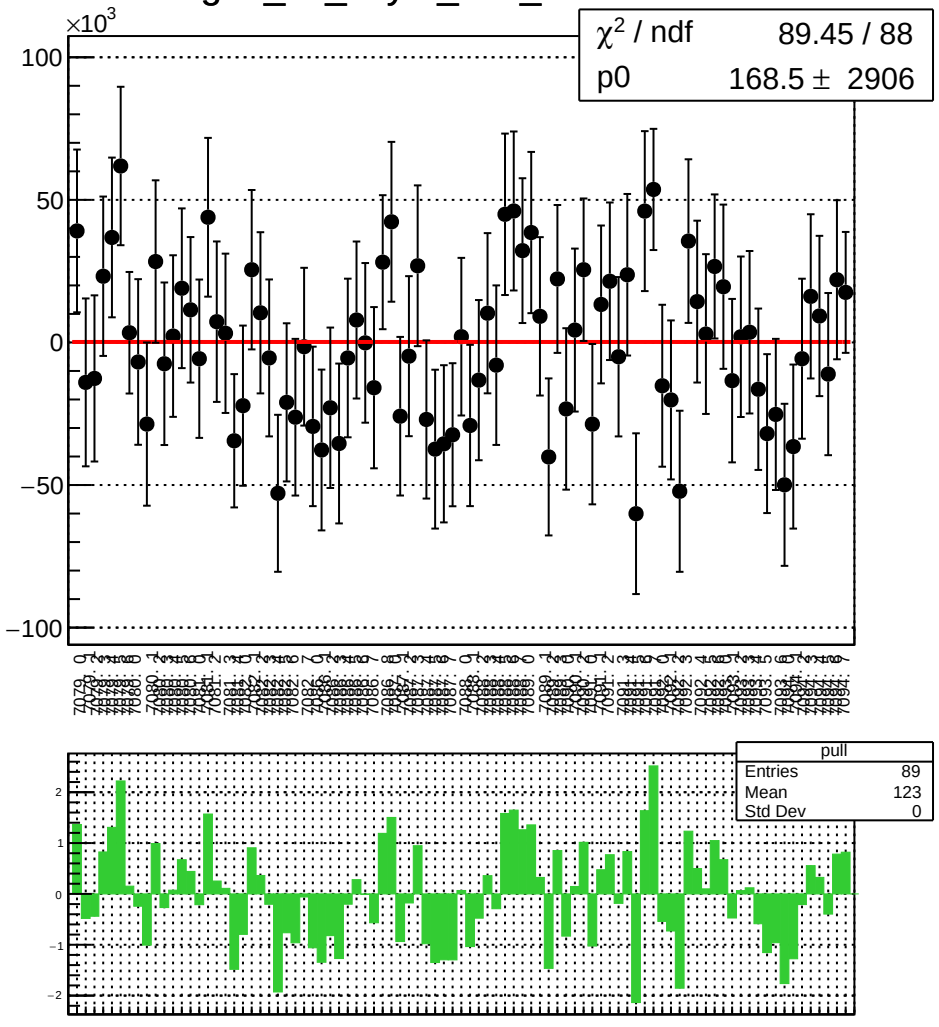

pull1D
Entries 89
Mean −0.01464
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

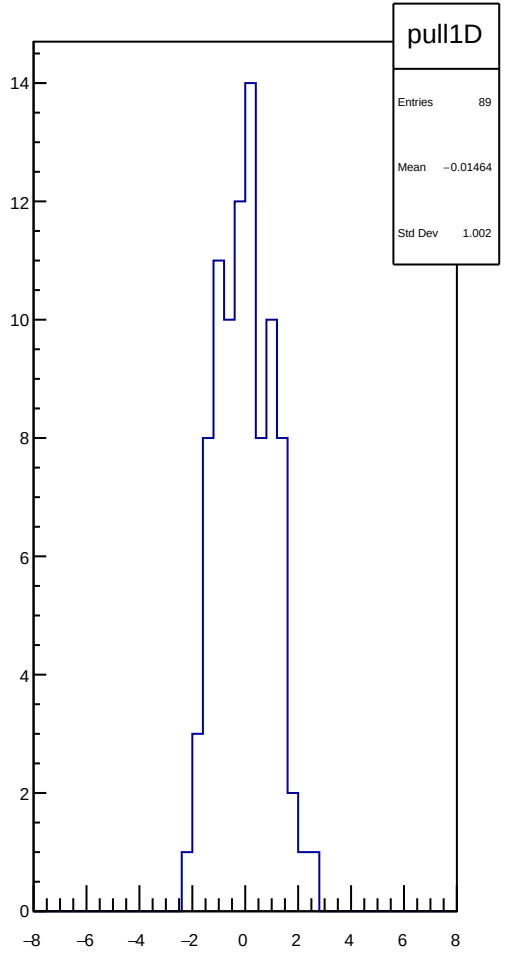

dit_asym_atl2_rms vs run
χ² / ndf 314.1 / 88
p0 2668 ± 2.055
2800
2750
2700
2650
2600

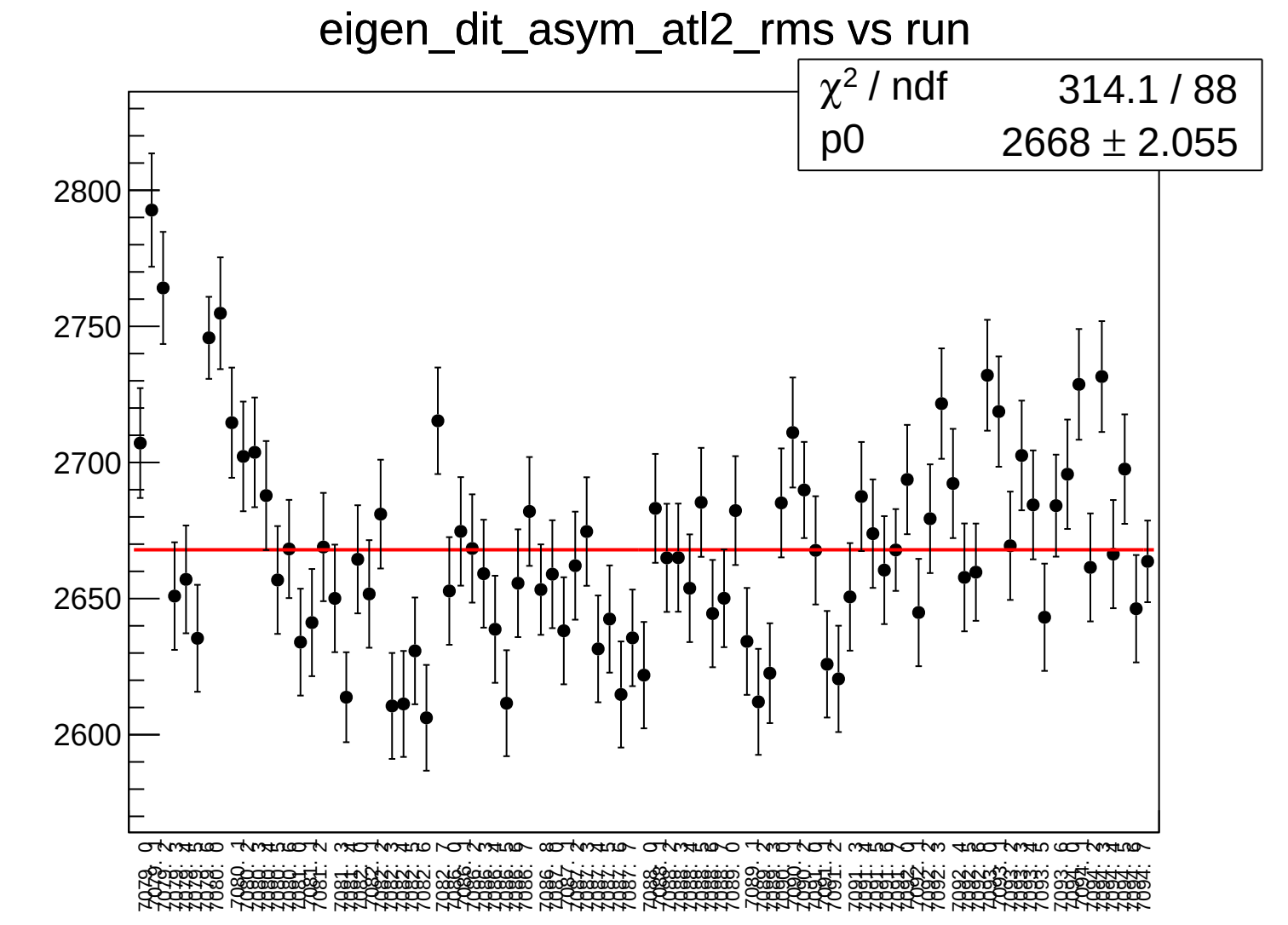

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 66.72 / 88
p0 −3362 ± 1.337e+04
pull
Entries 89
Mean −626.3
Std Dev 0

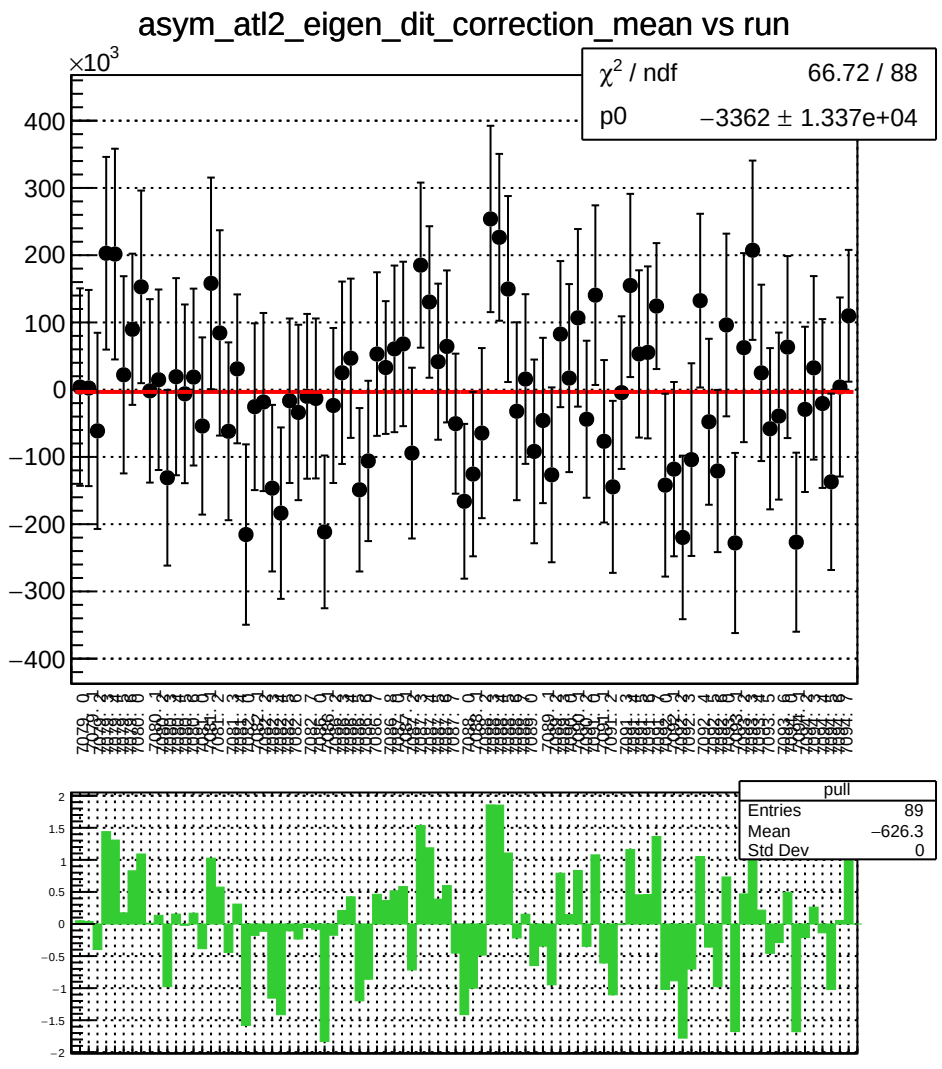

pull1D
Entries 89
Mean 0.002044
Std Dev 0.8658

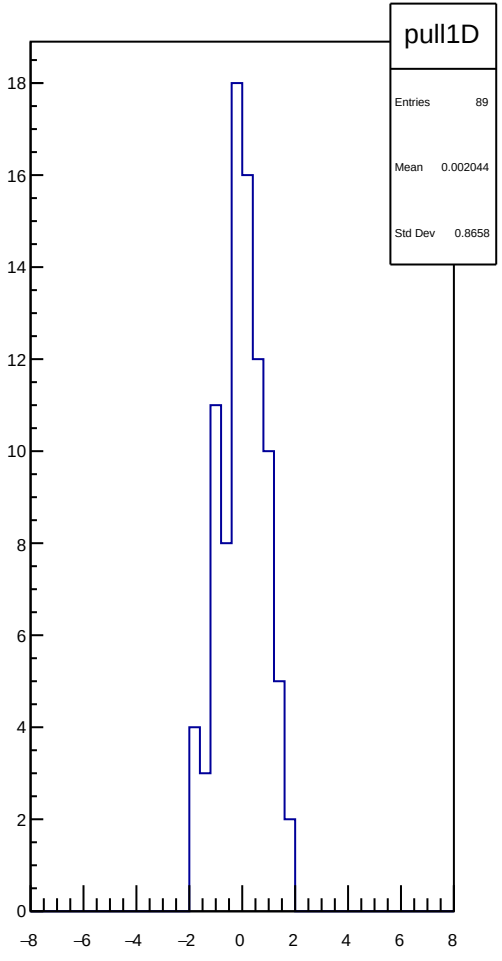

asym_atl2_dit_correction_rms vs run
χ² / ndf 9956 / 88
p0 1.224e+04 ± 9.454
15000
14000
13000
12000
11000


eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 89.45 / 88
p0 168.5 ± 2906
100
50
0
−50
−100
pull
Entries 89
Mean 123
Std Dev 0
2
1
0
−1
−2

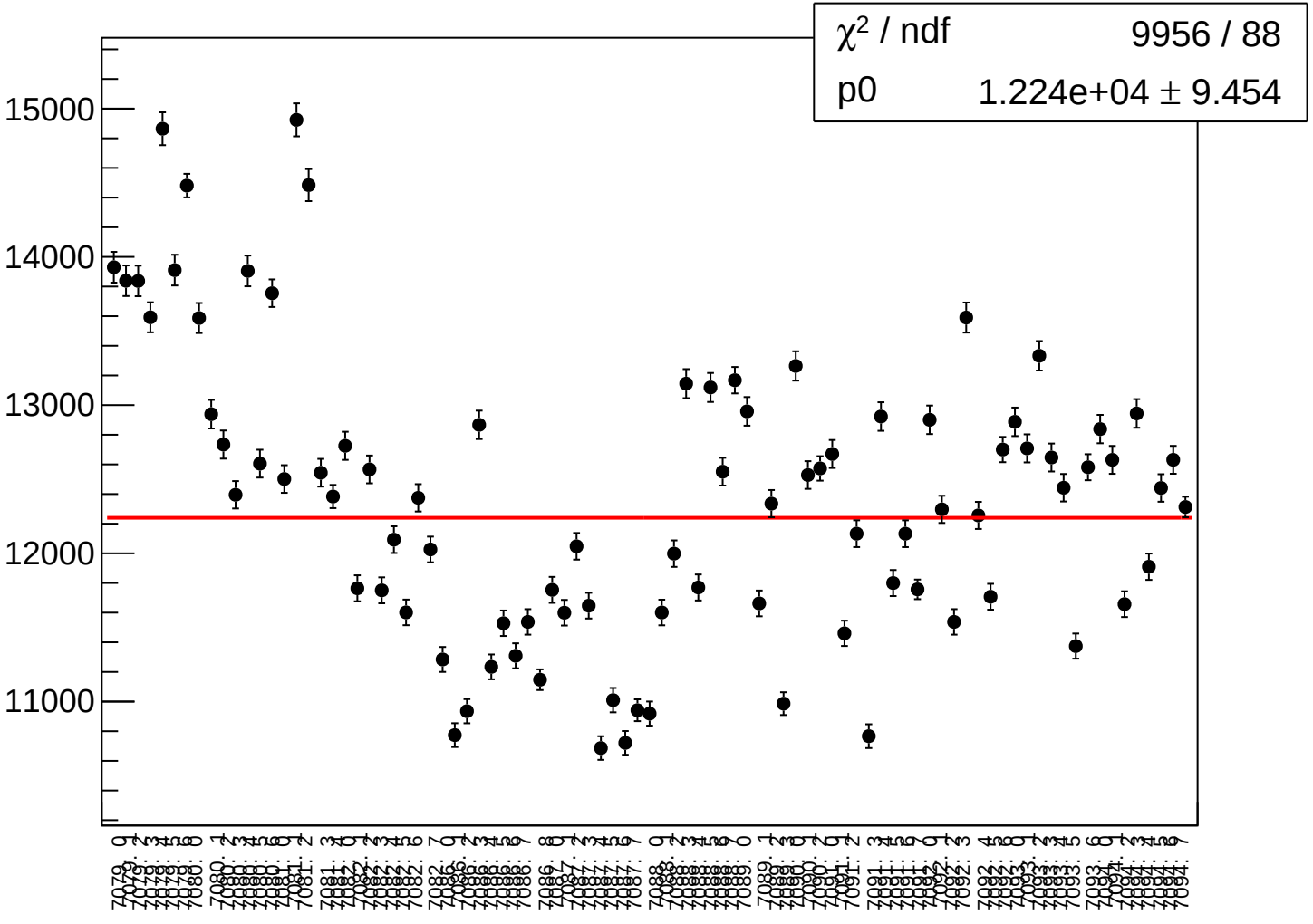

pull1D
Entries 89
Mean −0.01464
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

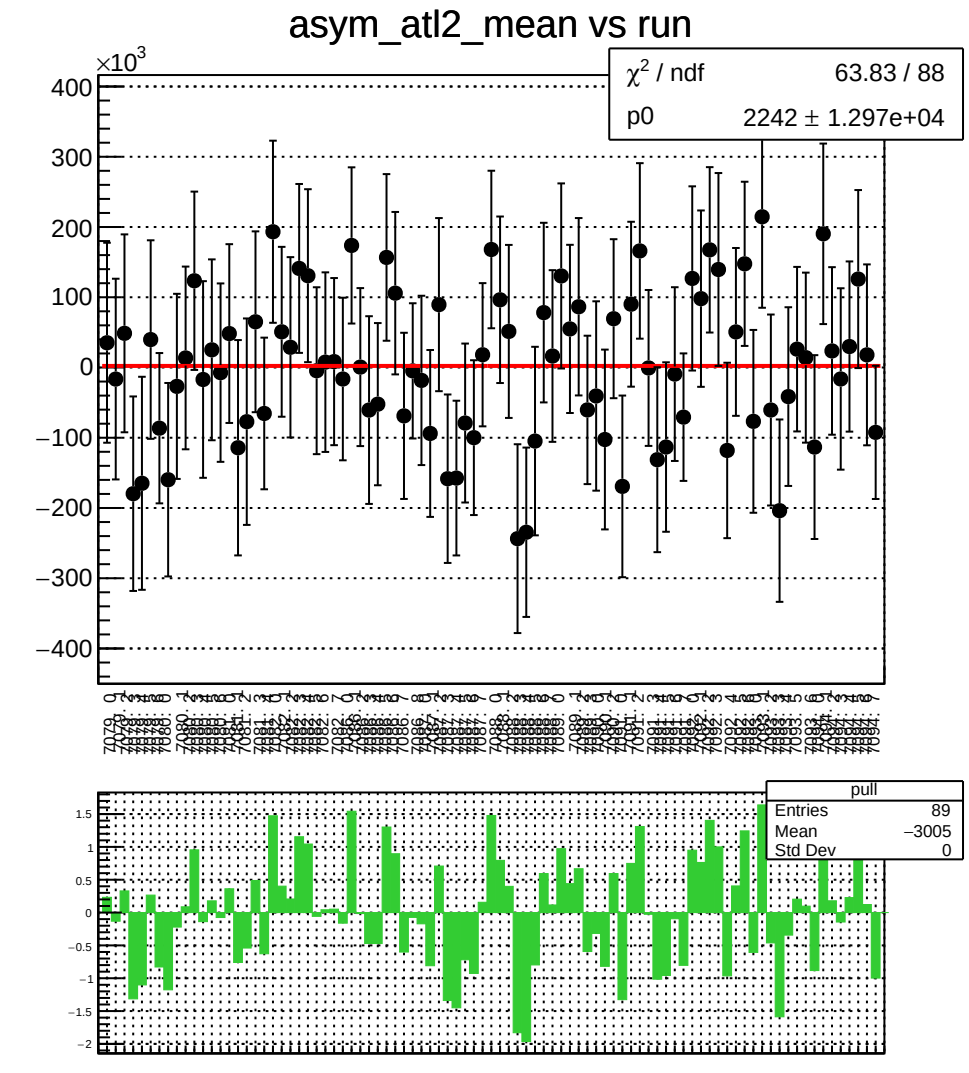

eigen_dit_asym_atl2_rms vs run
χ² / ndf 314.1 / 88
p0 2668 ± 2.055
2800
2750
2700
2650
2600

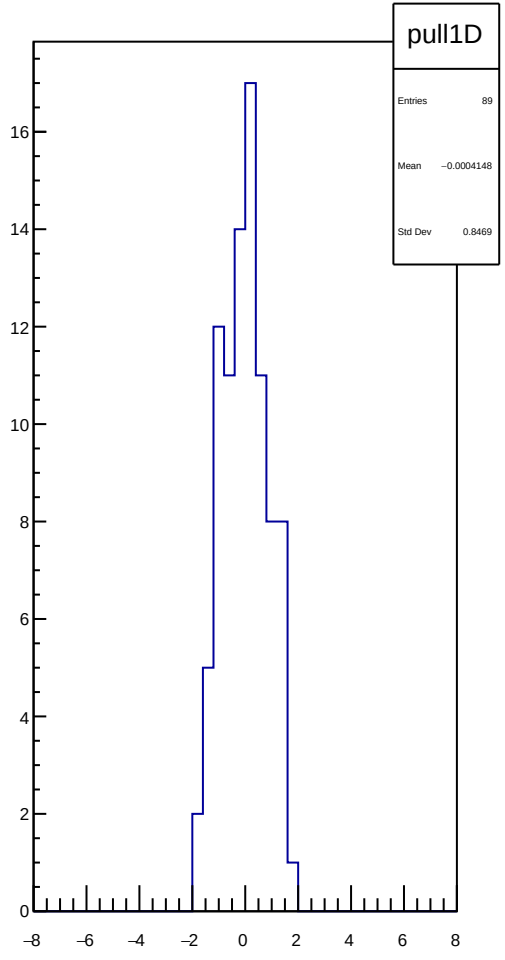

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.72 / 88
p0 −3362 ± 1.337e+04
pull
Entries 89
Mean −626.3
Std Dev 0

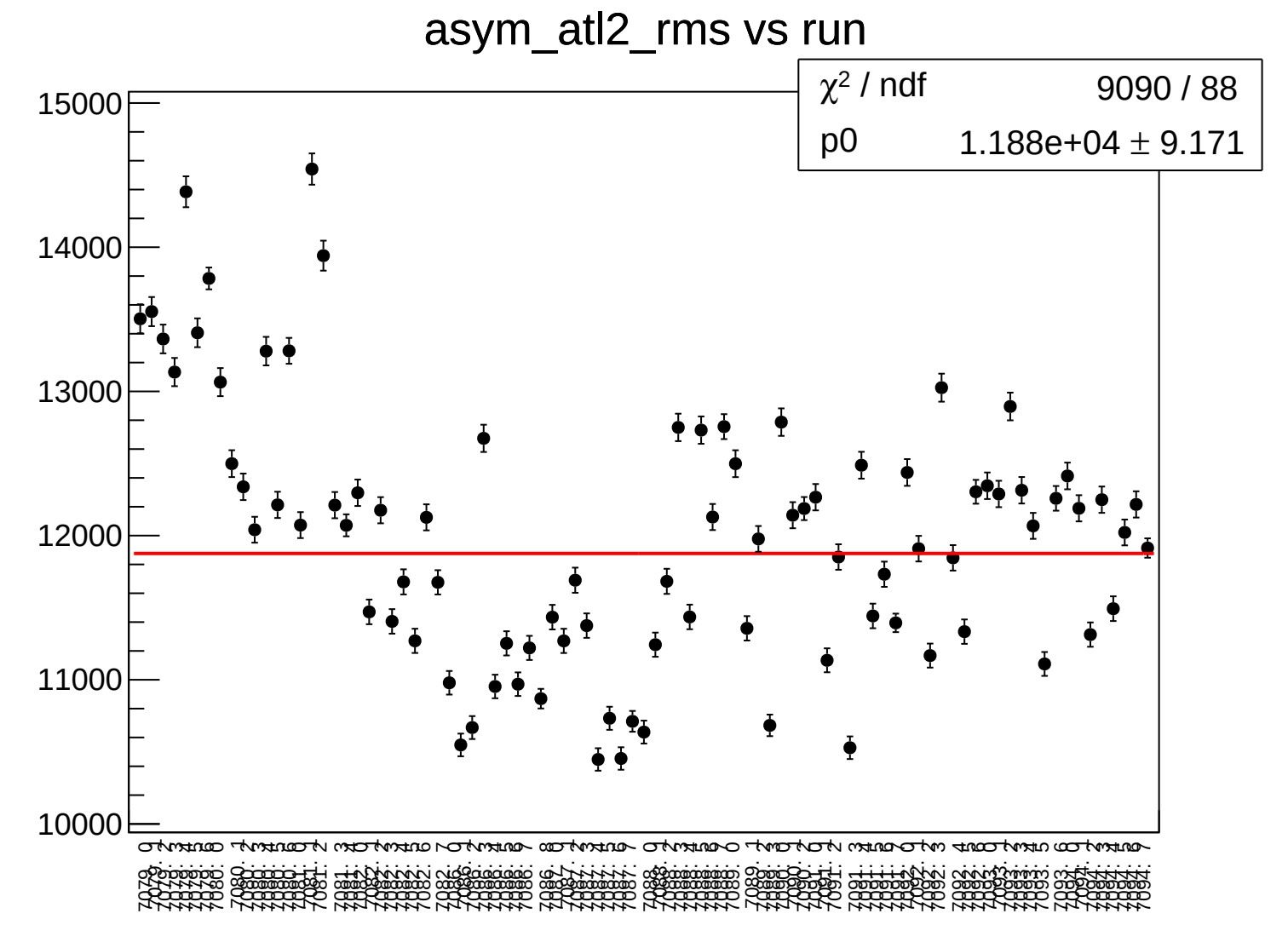

pull1D
Entries 89
Mean 0.002044
Std Dev 0.8658

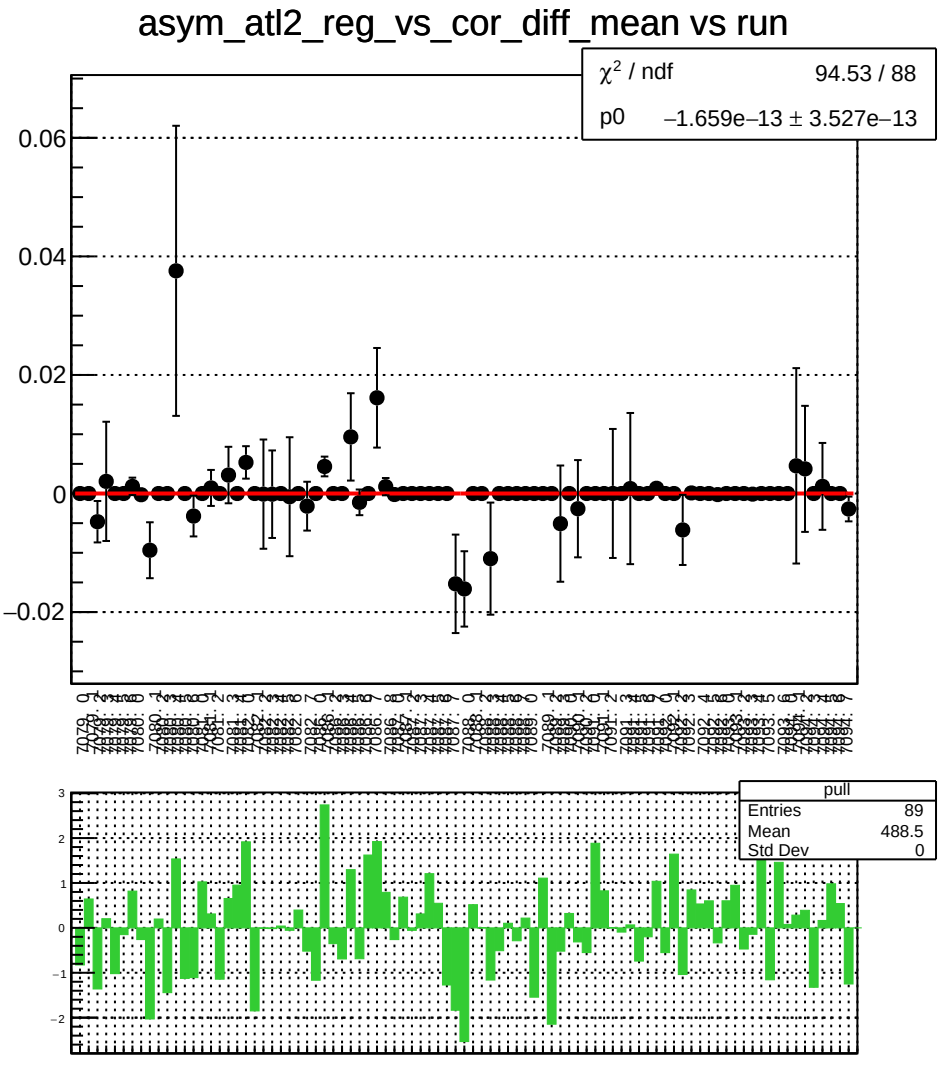
asym_atl2_eigen_dit_correction_rms vs run

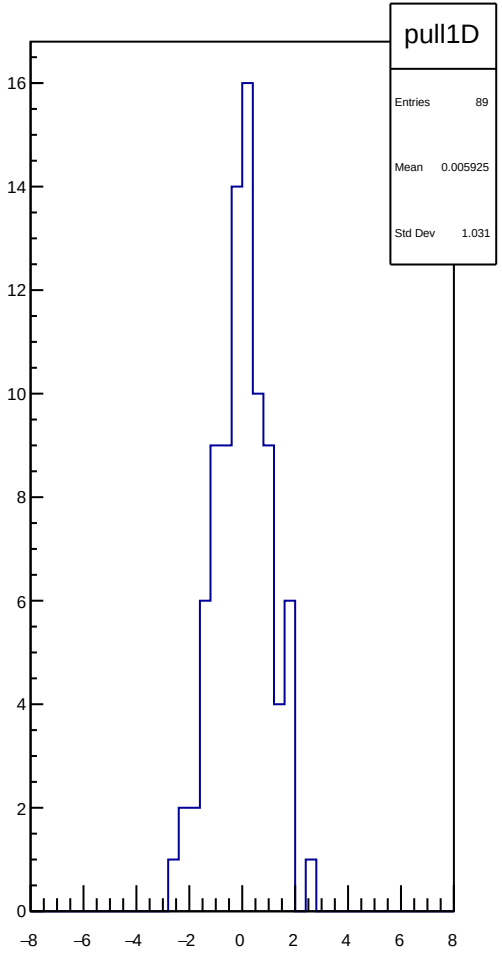


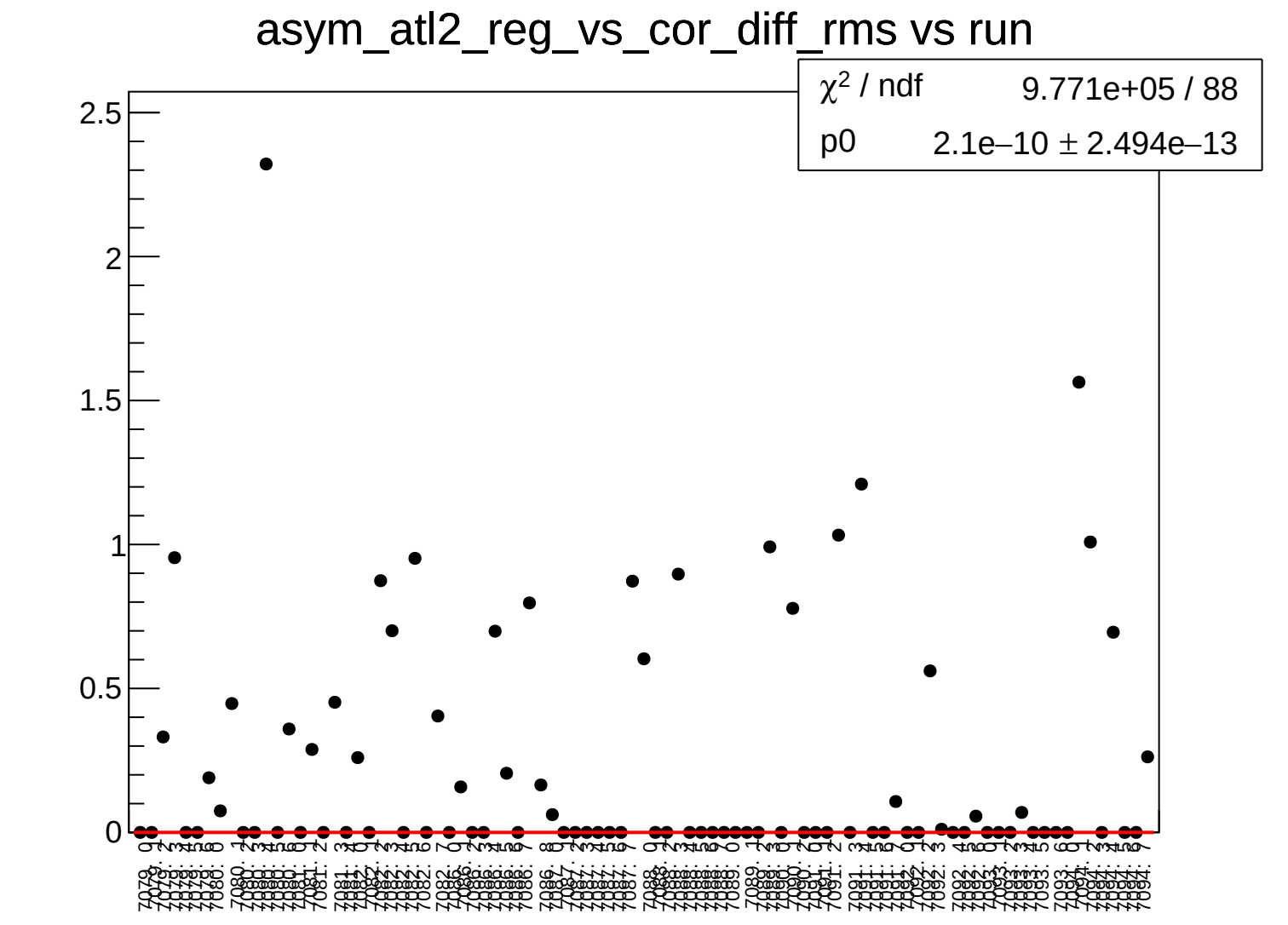

asym_atl2_mean vs run
×10^3
χ² / ndf 63.83 / 88
p0 2242 ± 1.297e+04
pull
Entries 89
Mean −3005
Std Dev 0

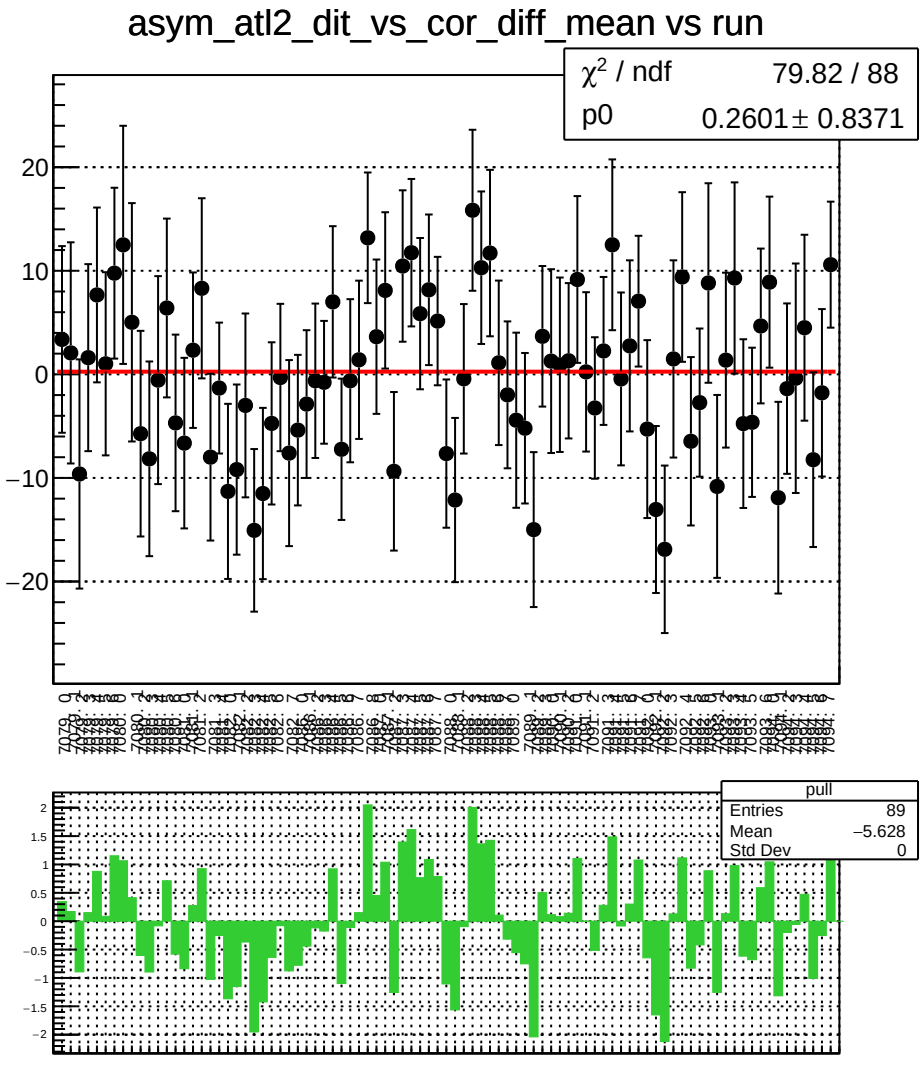

pull1D
Entries 89
Mean −0.0004148
Std Dev 0.8469

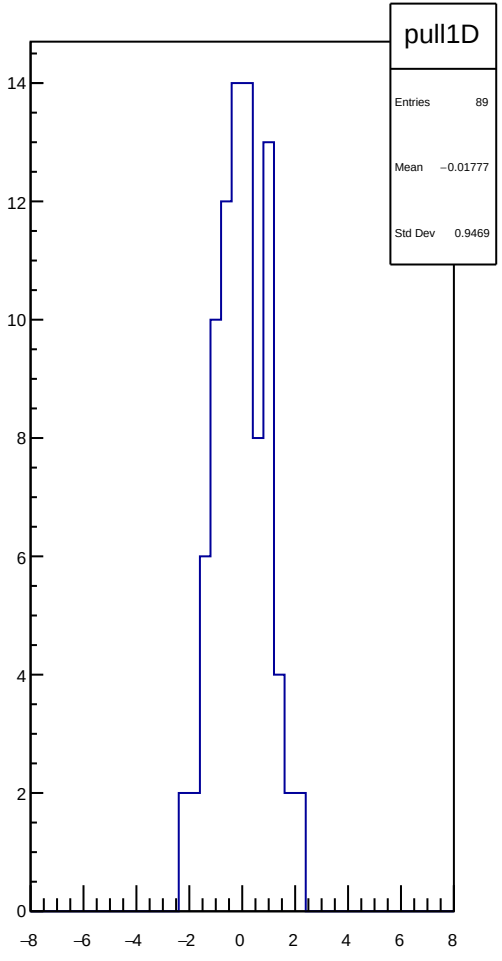

asym_atl2_rms vs run
χ² / ndf 9090 / 88
p0 1.188e+04 ± 9.171
15000
14000
13000
12000
11000
10000

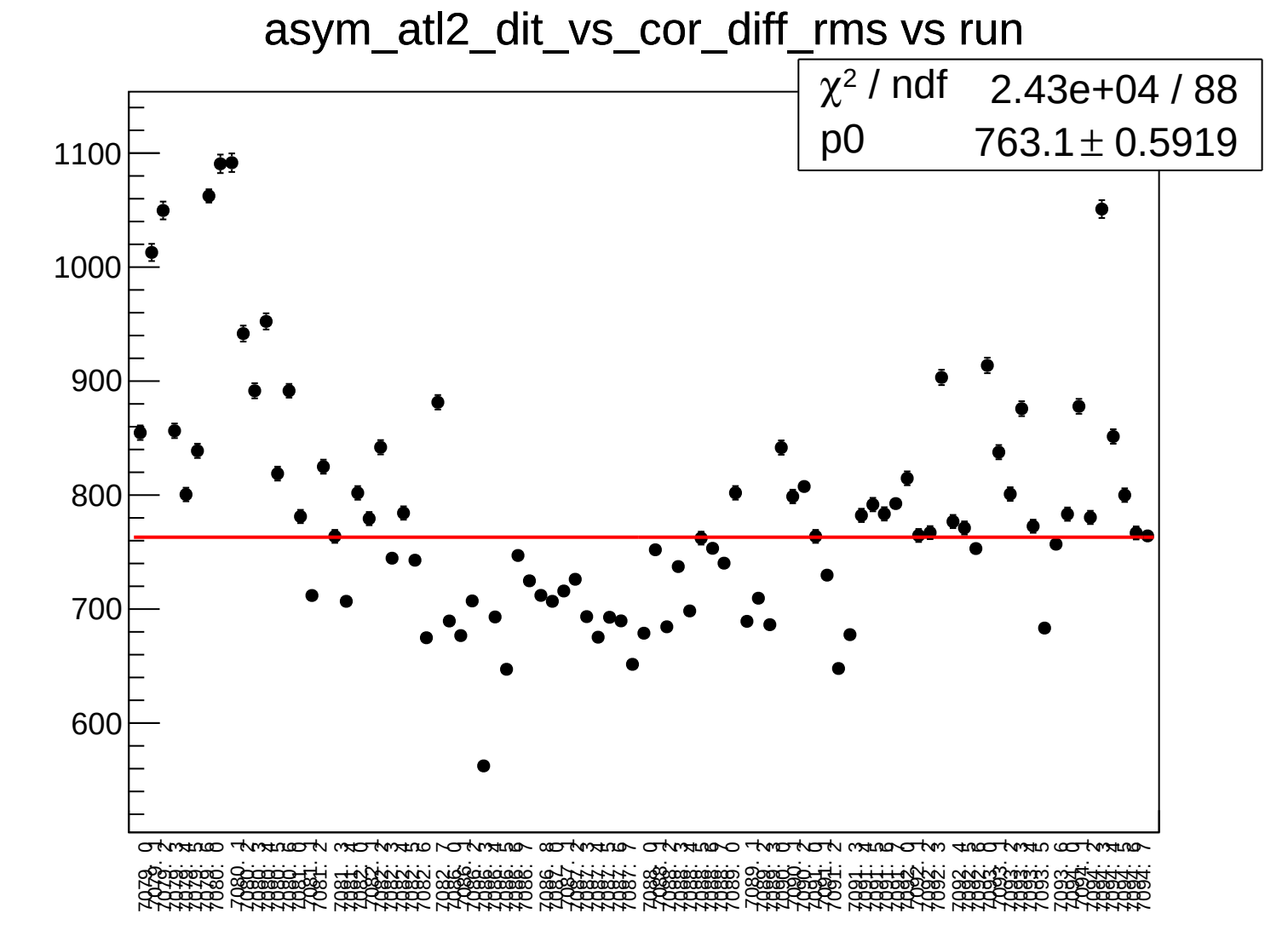

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 94.53 / 88
p0 −1.659e−13 ± 3.527e−13
0.06
0.04
0.02
0
−0.02
pull
Entries 89
Mean 488.5
Std Dev 0
3
2
1
0
−1
−2

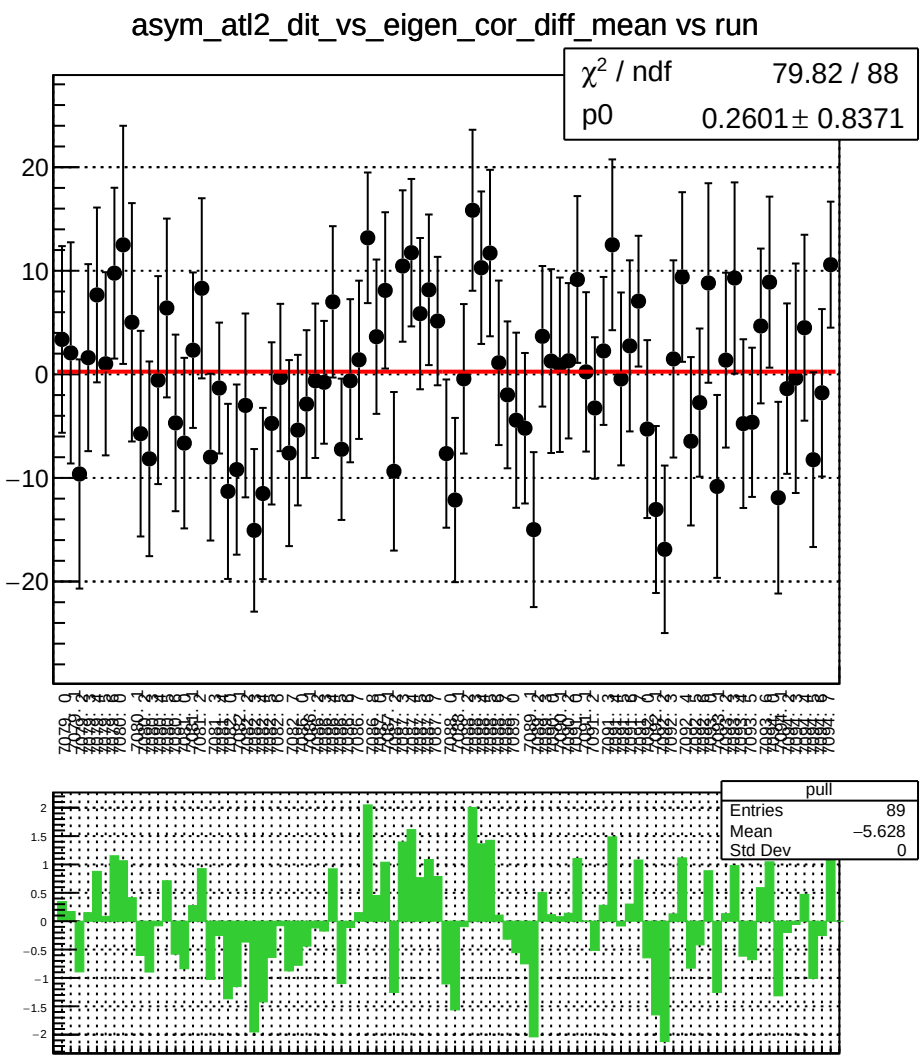

pull1D
Entries 89
Mean 0.005925
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

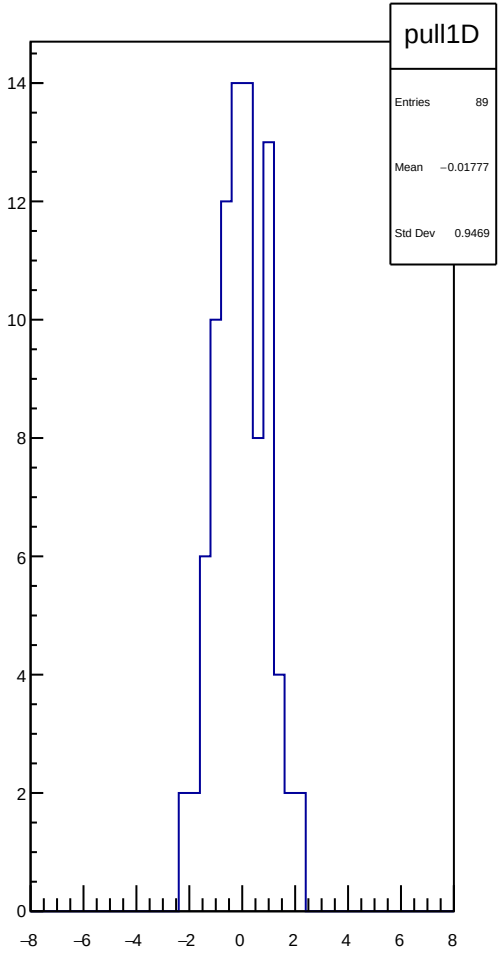

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.771e+05 / 88
p0 2.1e−10 ± 2.494e−13
2.5
2
1.5
1
0.5
0

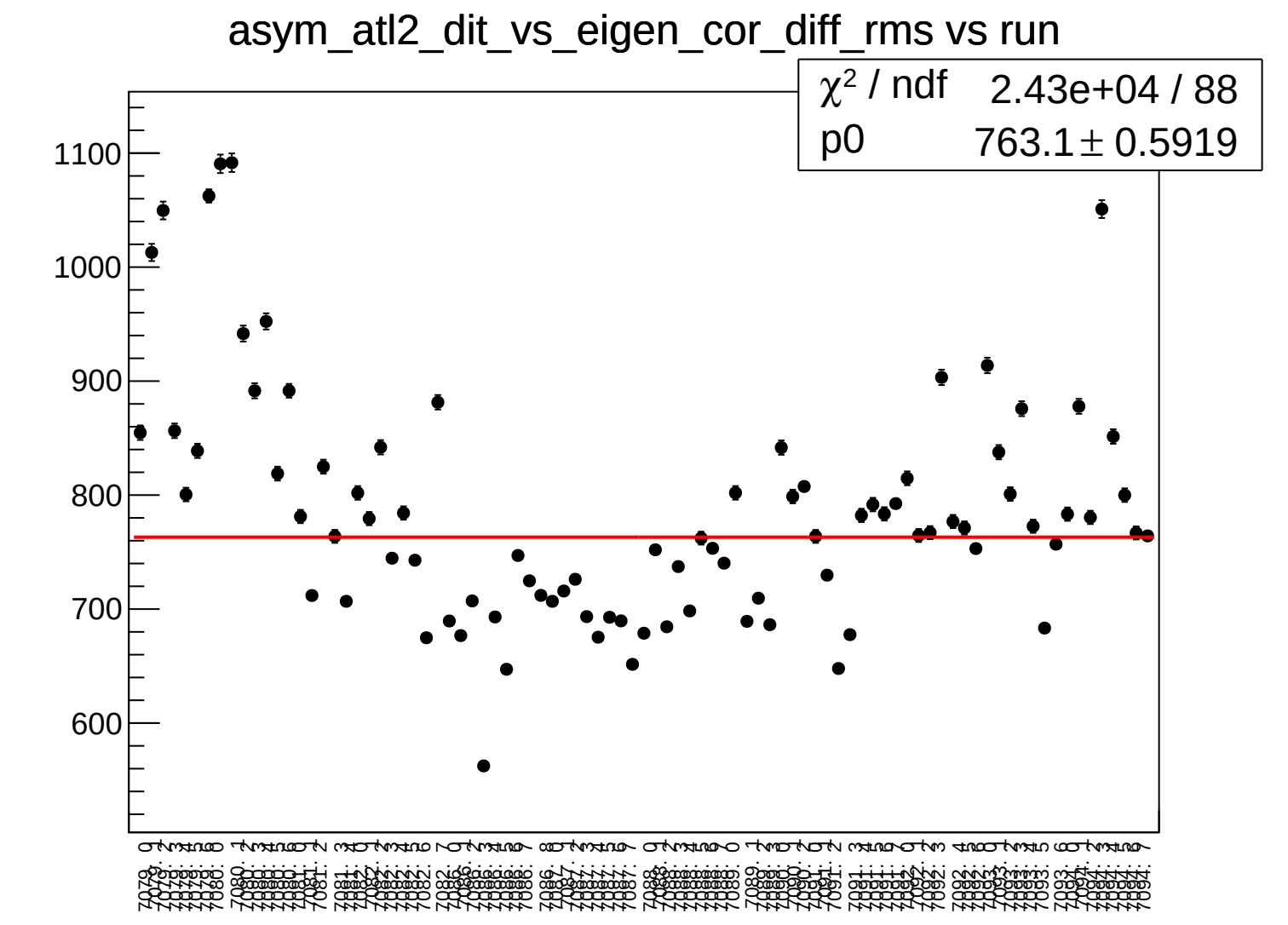

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 79.82 / 88
p0 0.2601± 0.8371
pull
Entries 89
Mean −5.628
Std Dev 0

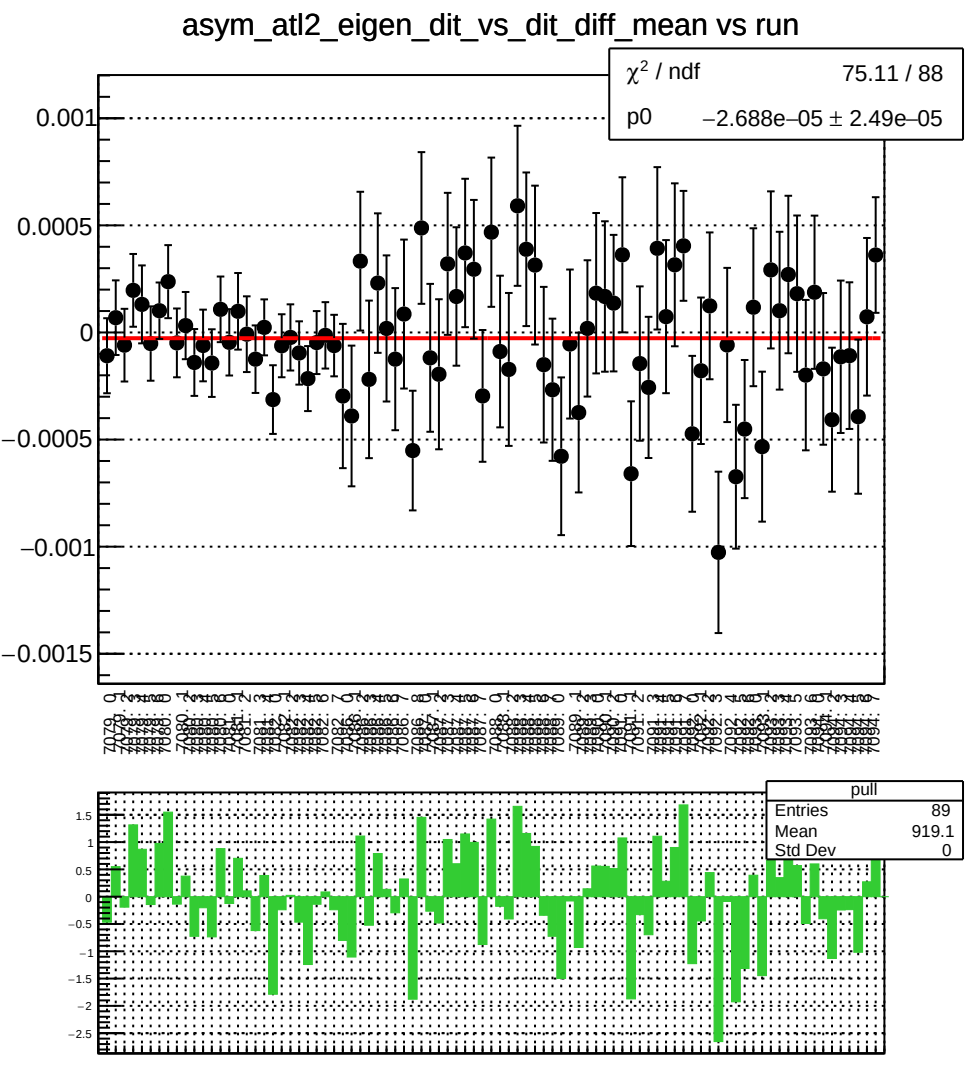

pull1D
Entries 89
Mean −0.01777
Std Dev 0.9469

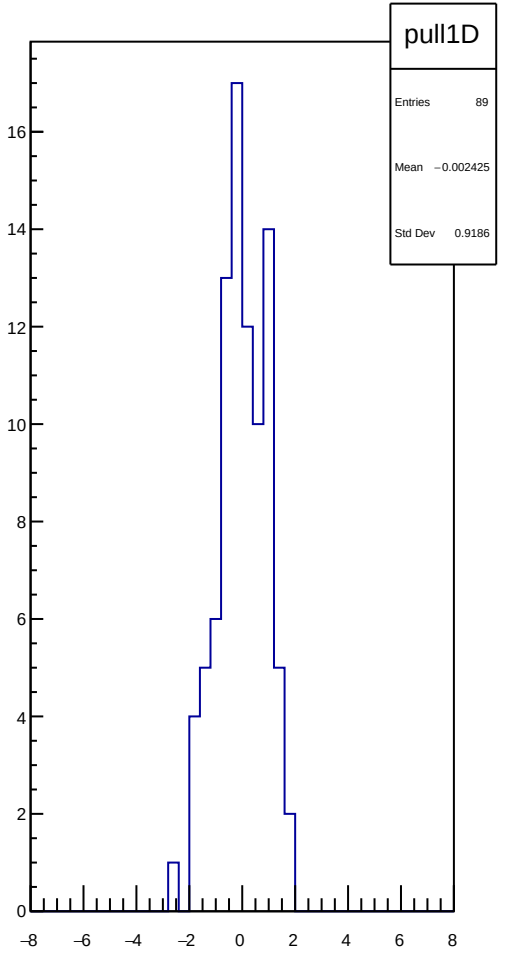

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.43e+04 / 88
p0 763.1 ± 0.5919
1100
1000
900
800
700
600

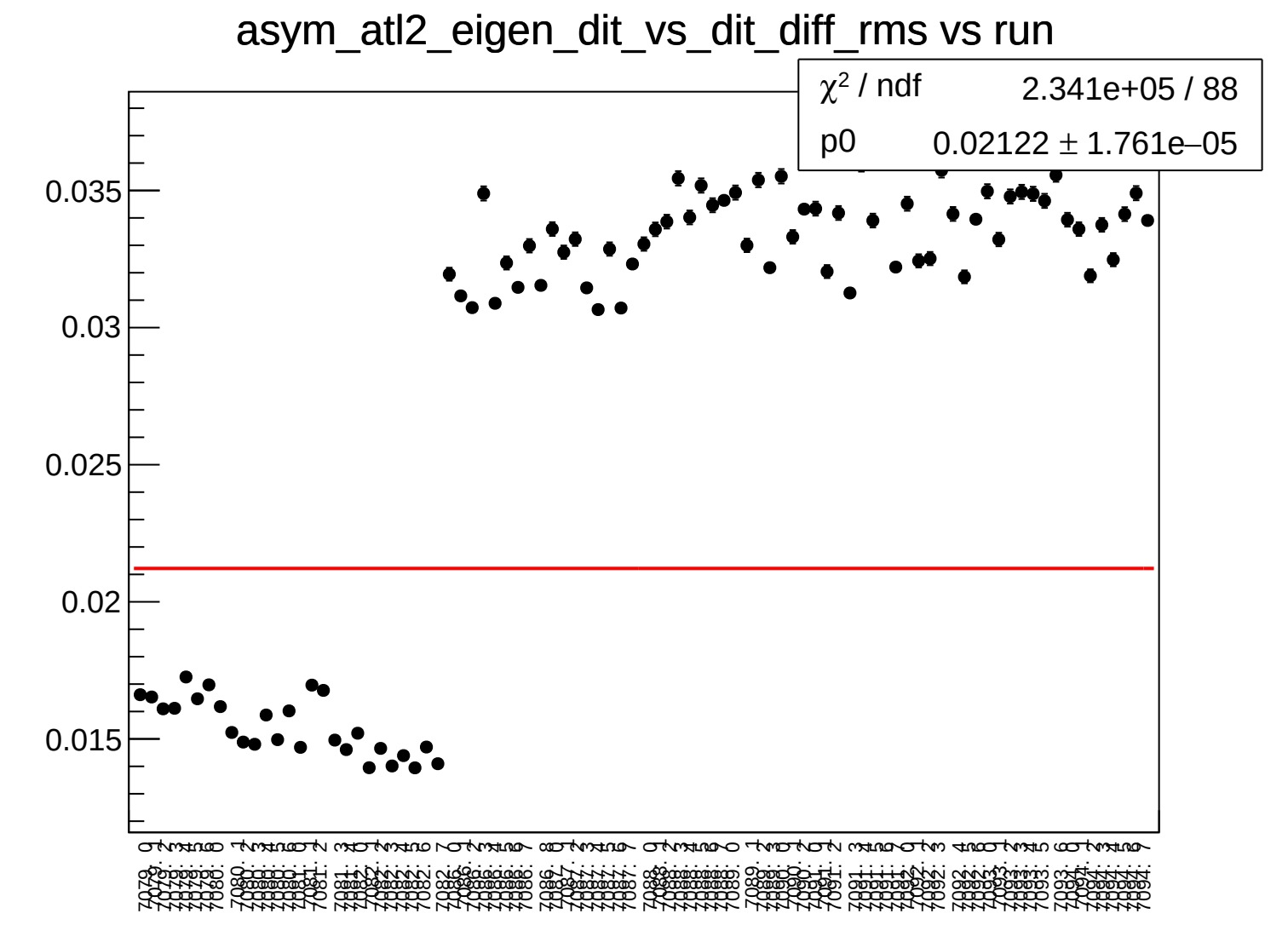

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.82 / 88
p0 0.2601± 0.8371
20
10
0
−10
−20
pull
Entries 89
Mean −5.628
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean −0.01777
Std Dev 0.9469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

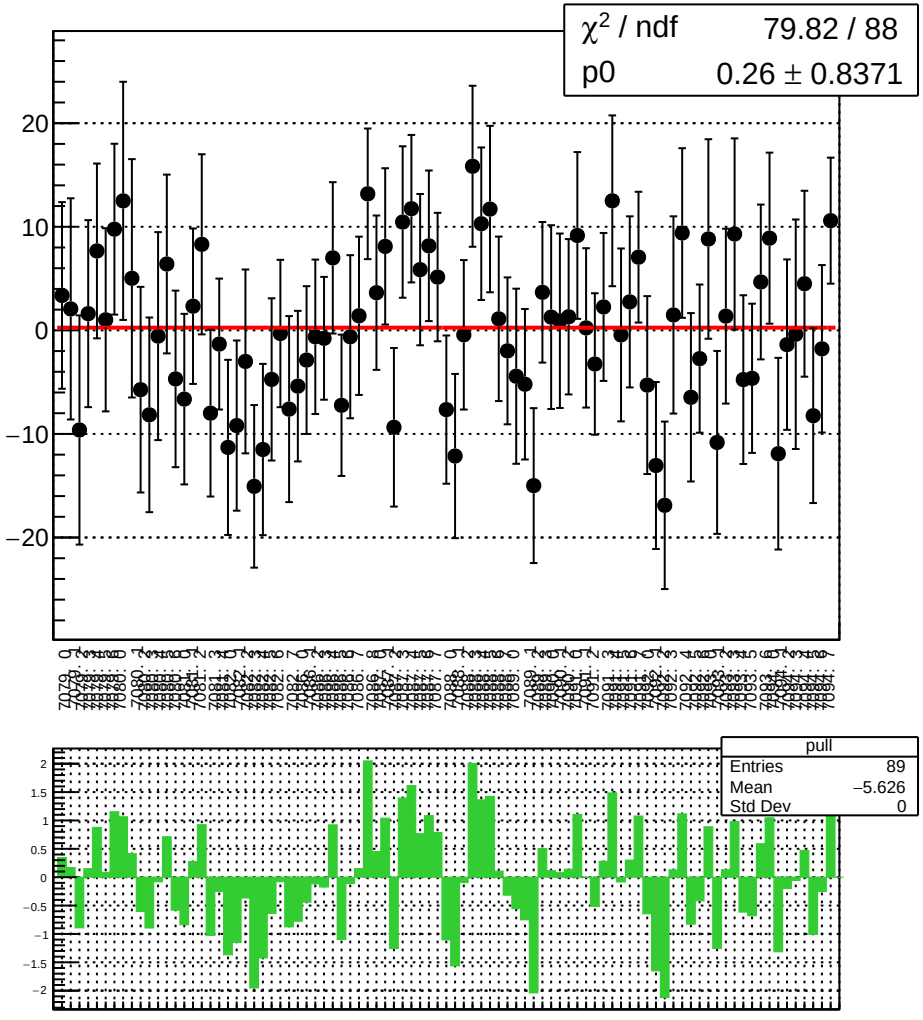

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.43e+04 / 88
p0 763.1 ± 0.5919
1100
1000
900
800
700
600

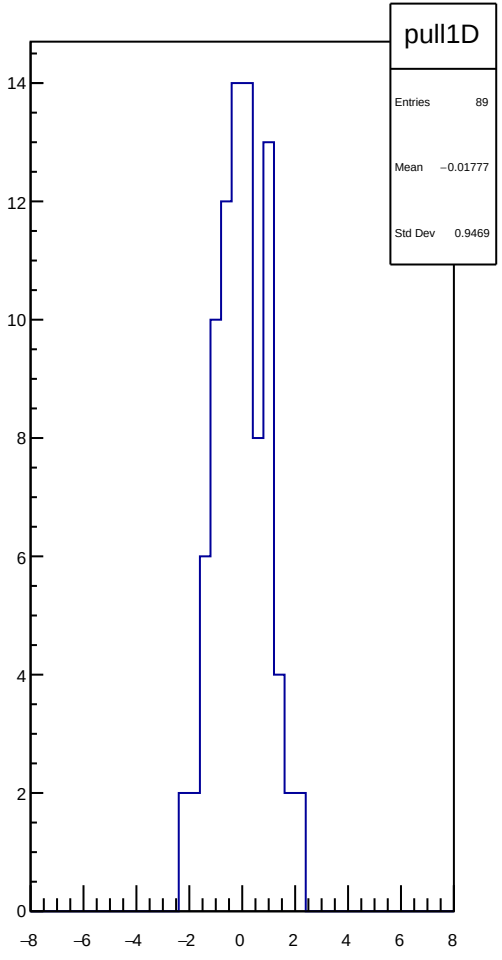

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.11 / 88
p0 −2.688e−05 ± 2.49e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 919.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

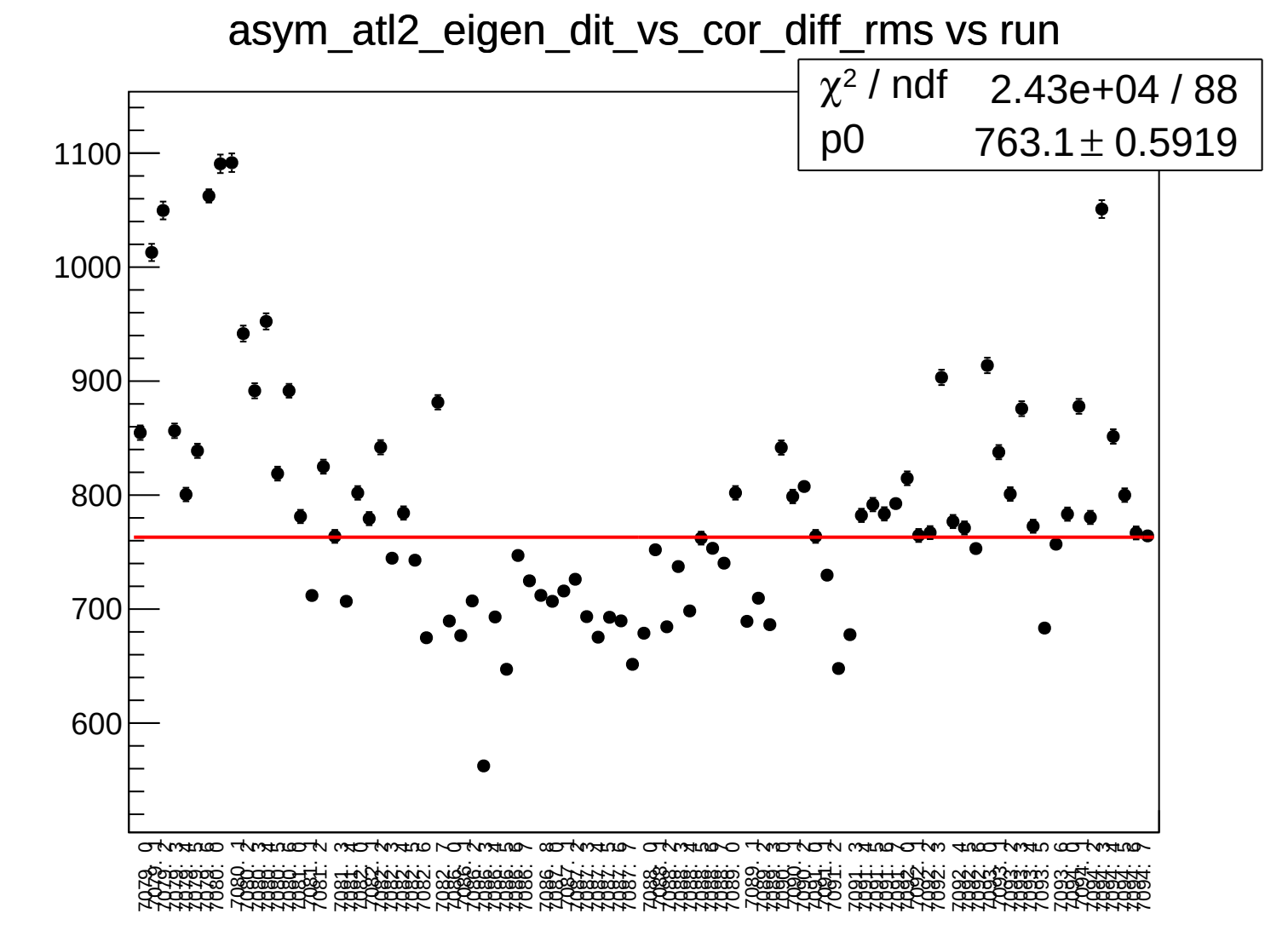

pull1D
Entries 89
Mean −0.002425
Std Dev 0.9186
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

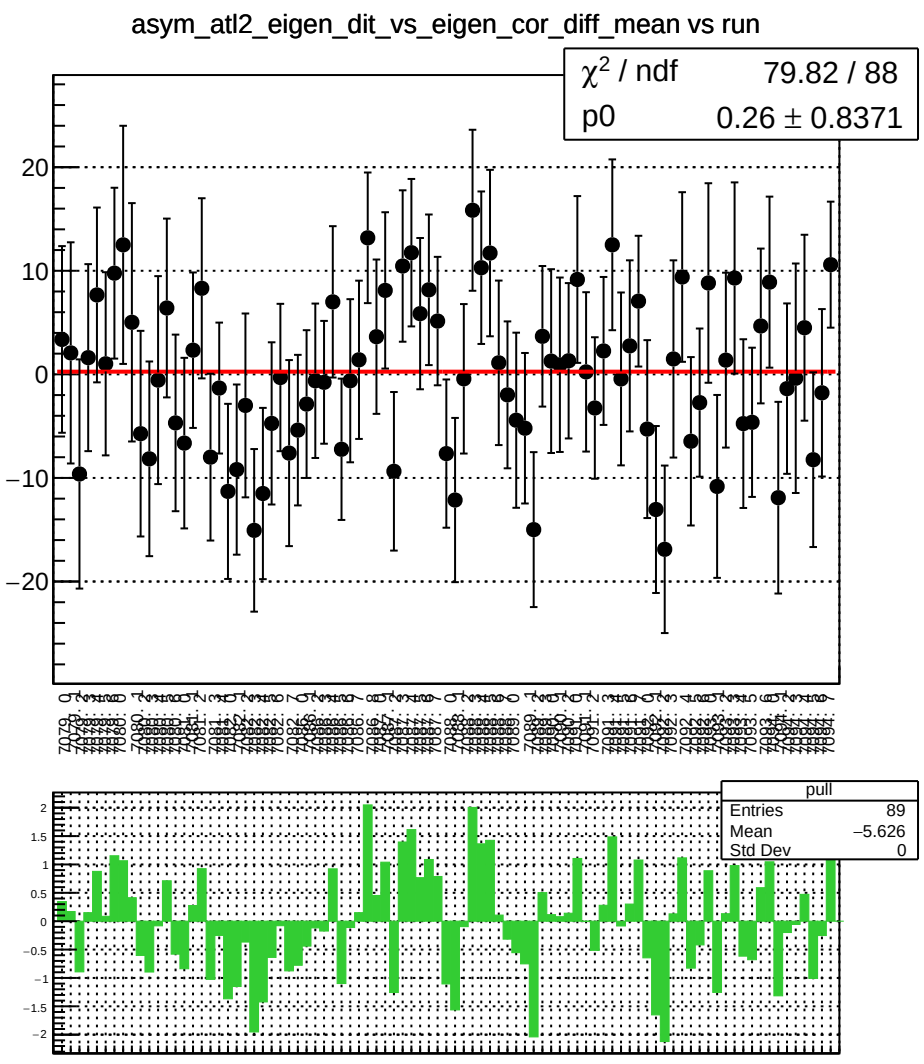

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.341e+05 / 88
p0 0.02122 ± 1.761e−05
0.035
0.03
0.025
0.02
0.015

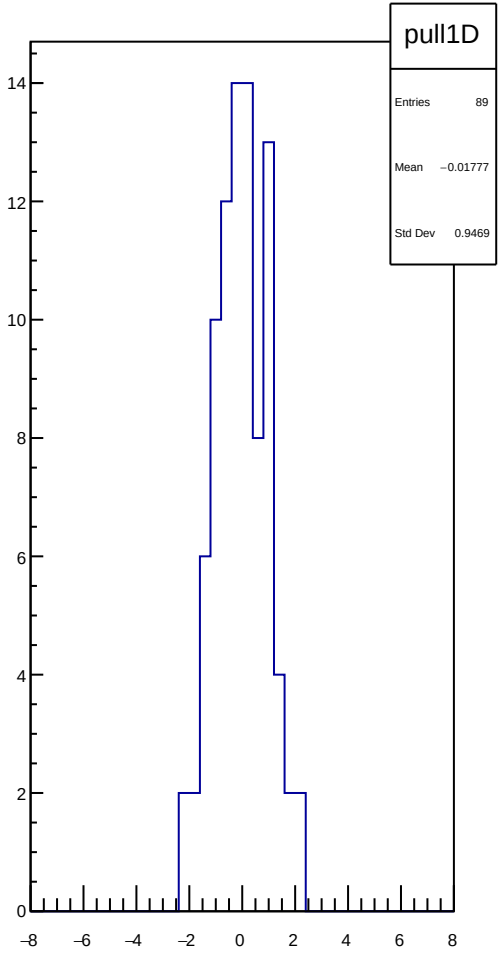
asym_atl2_eigen_dit_vs_cor_diff_mean vs run

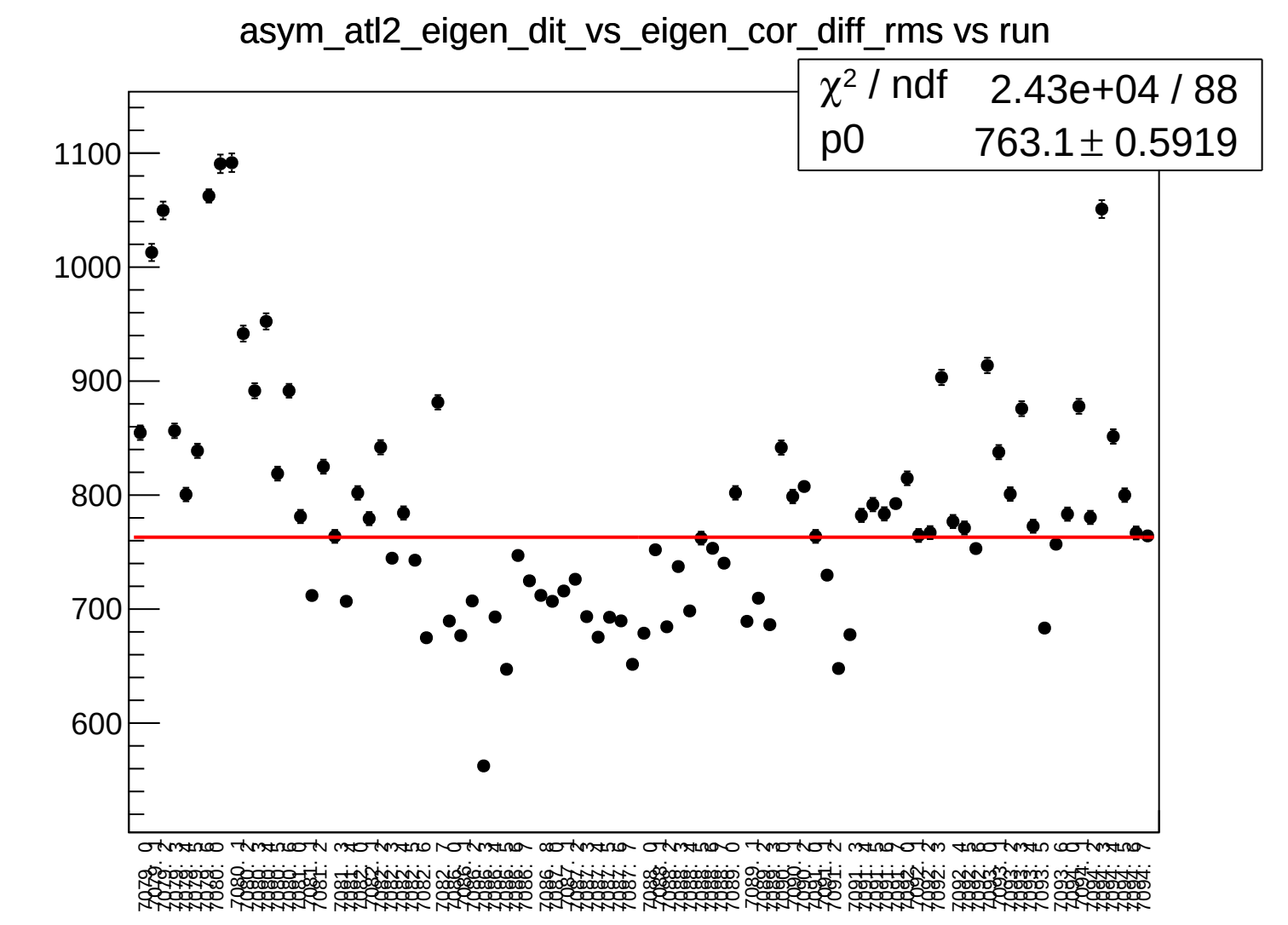


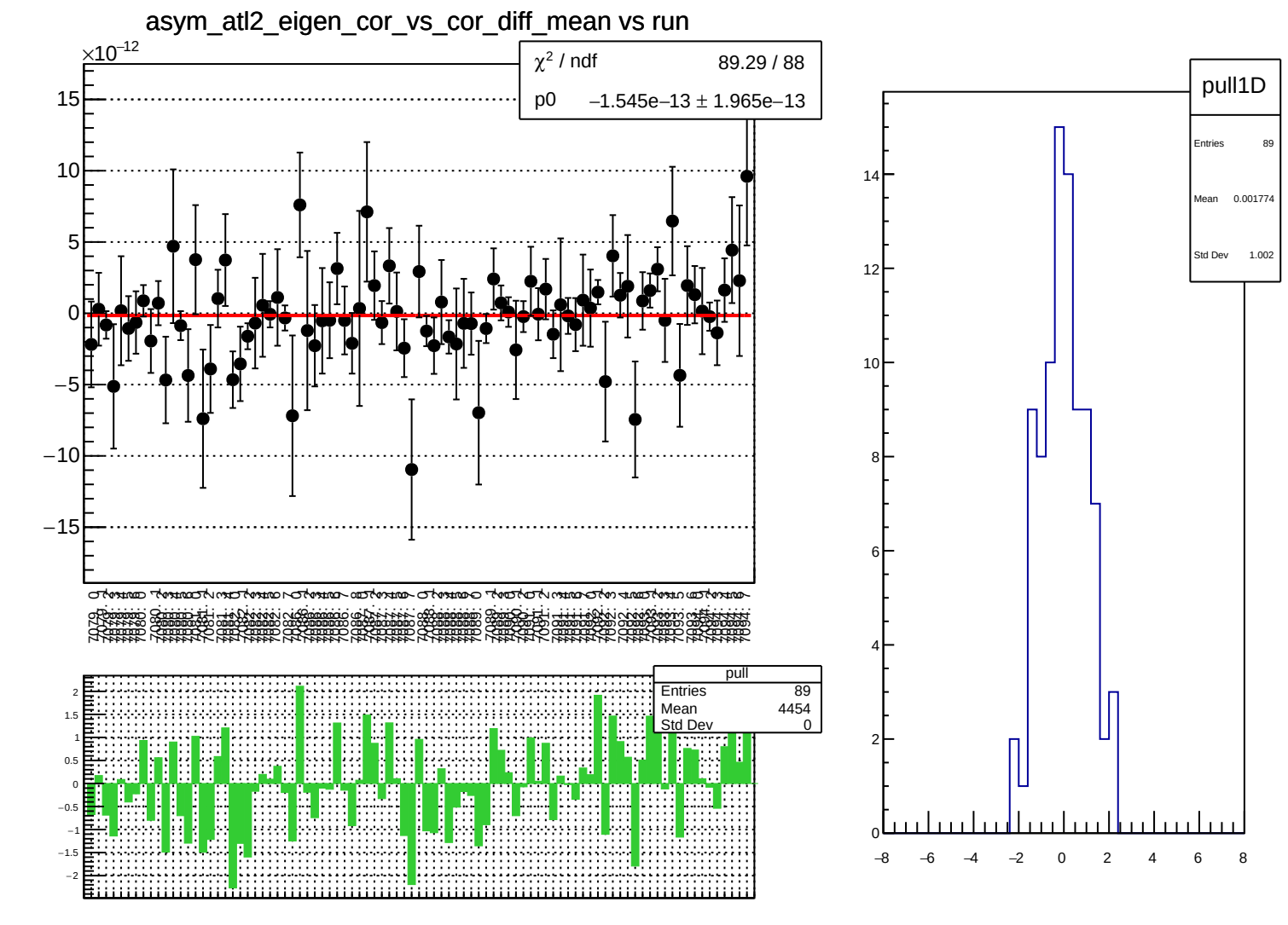


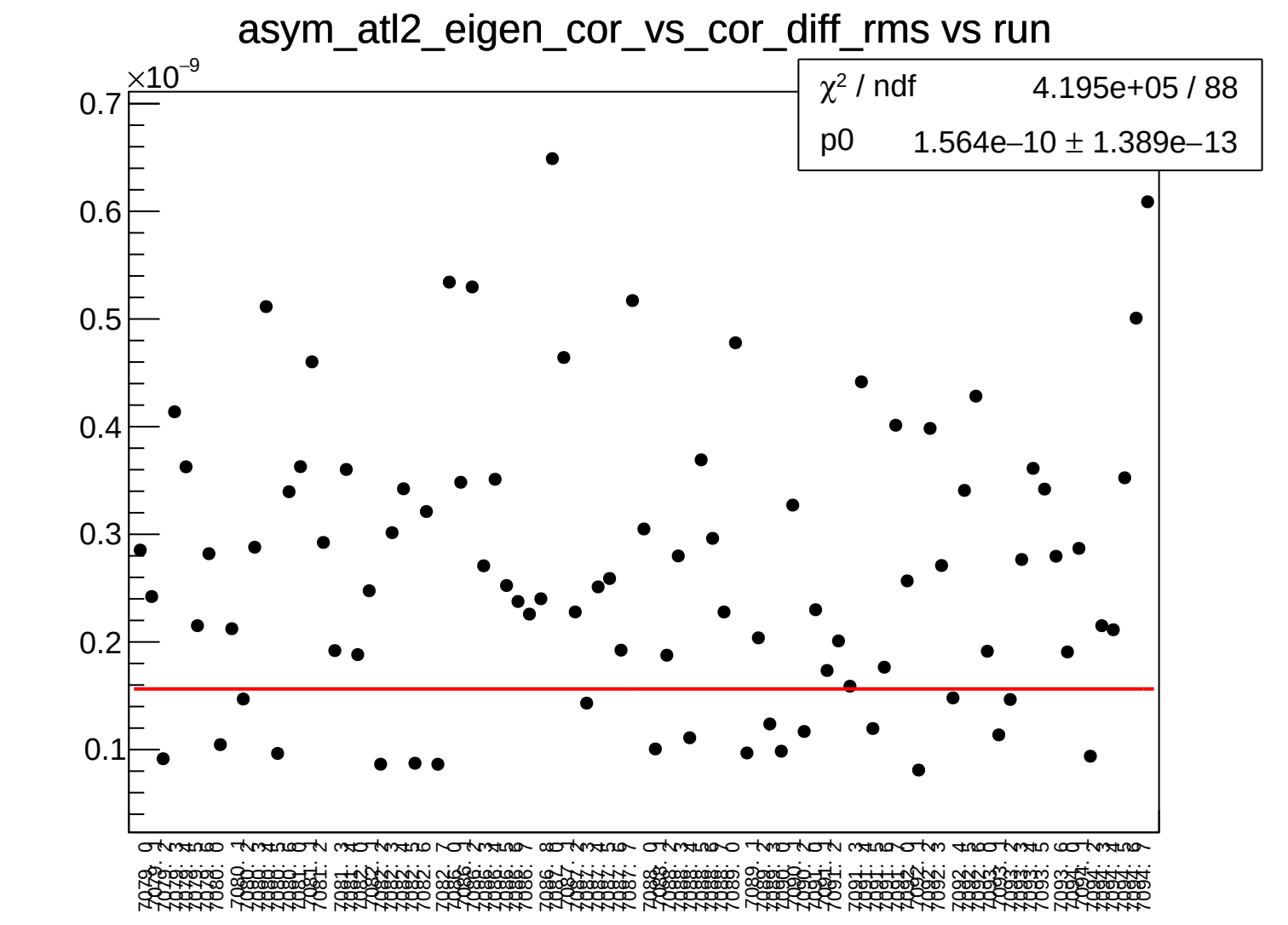

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.43e+04 / 88
p0 763.1 ± 0.5919
1100
1000
900
800
700
600

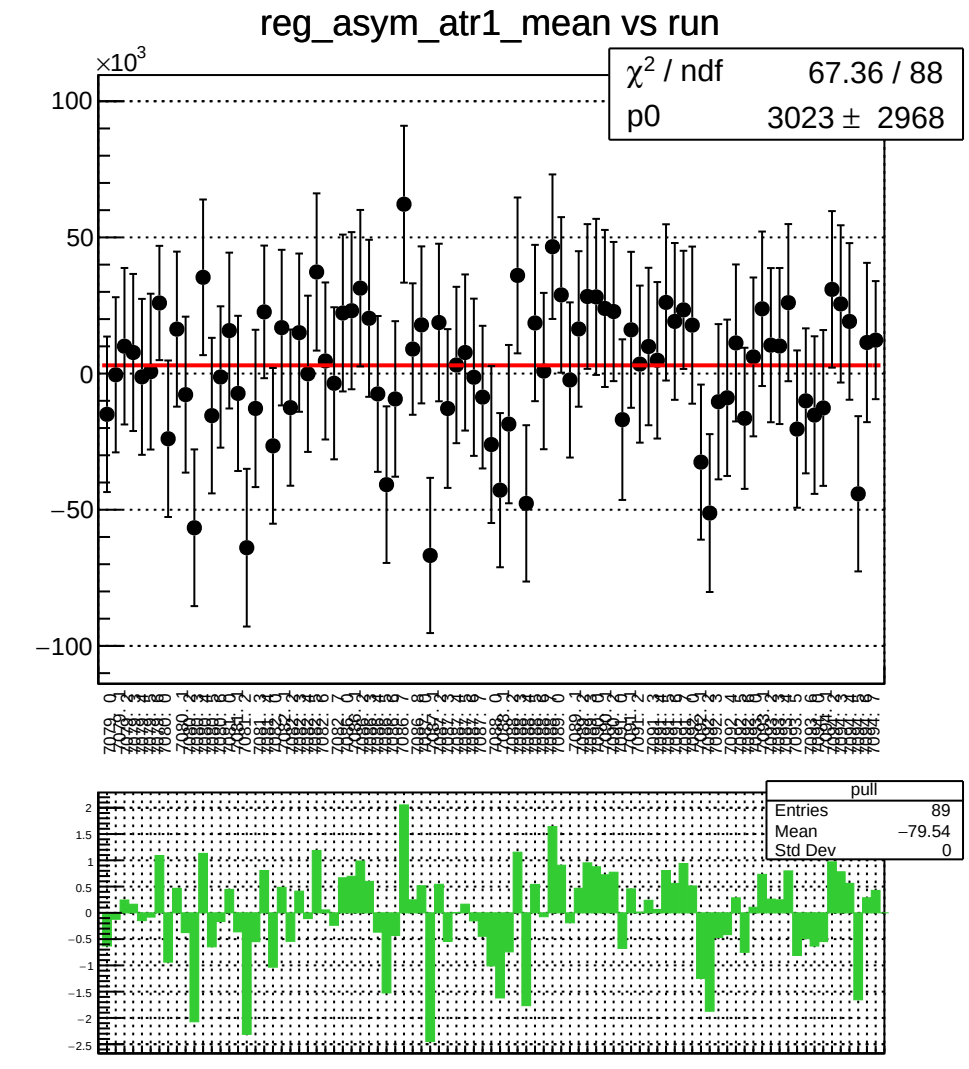

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.82 / 88
p0 0.26 ± 0.8371
20
10
0
−10
−20
pull
Entries 89
Mean −5.626
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

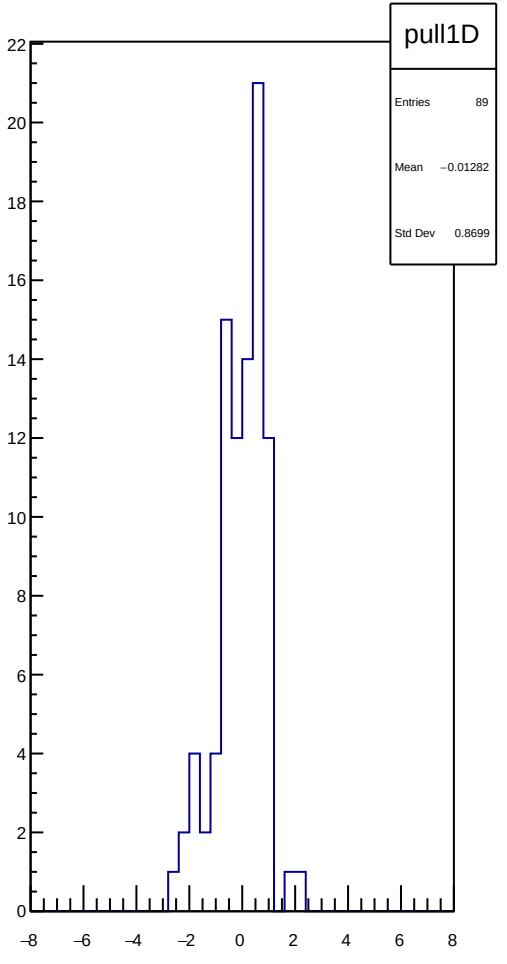

pull1D
Entries 89
Mean −0.01777
Std Dev 0.9469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

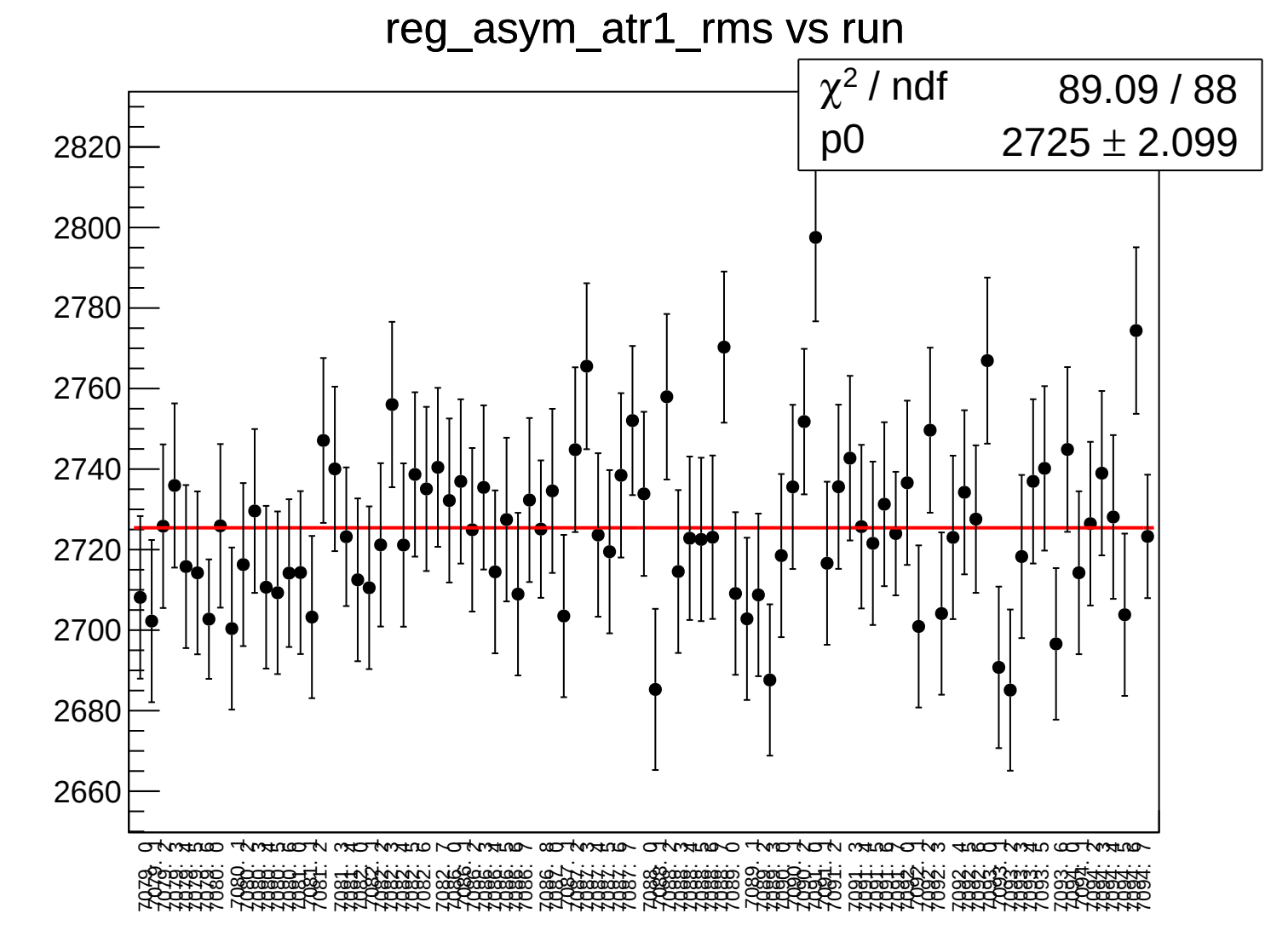

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.43e+04 / 88
p0 763.1 ± 0.5919
1100
1000
900
800
700
600

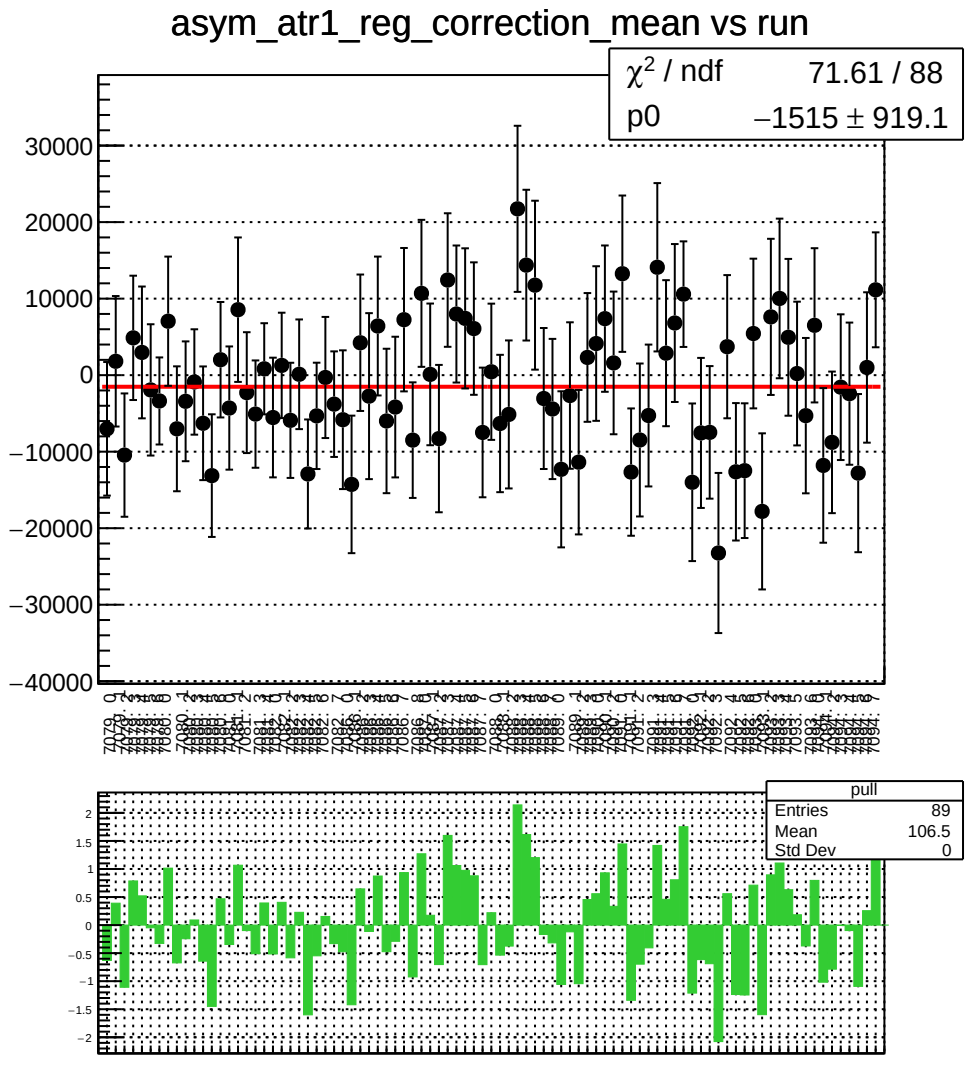

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.29 / 88
p0 −1.545e−13 ± 1.965e−13
pull
Entries 89
Mean 4454
Std Dev 0
pull1D
Entries 89
Mean 0.001774
Std Dev 1.002

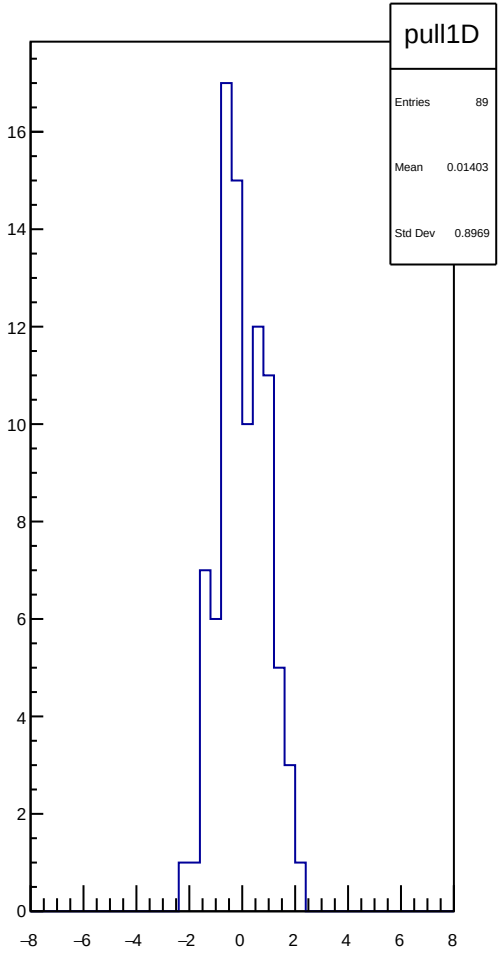

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.195e+05 / 88
p0 1.564e−10 ± 1.389e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

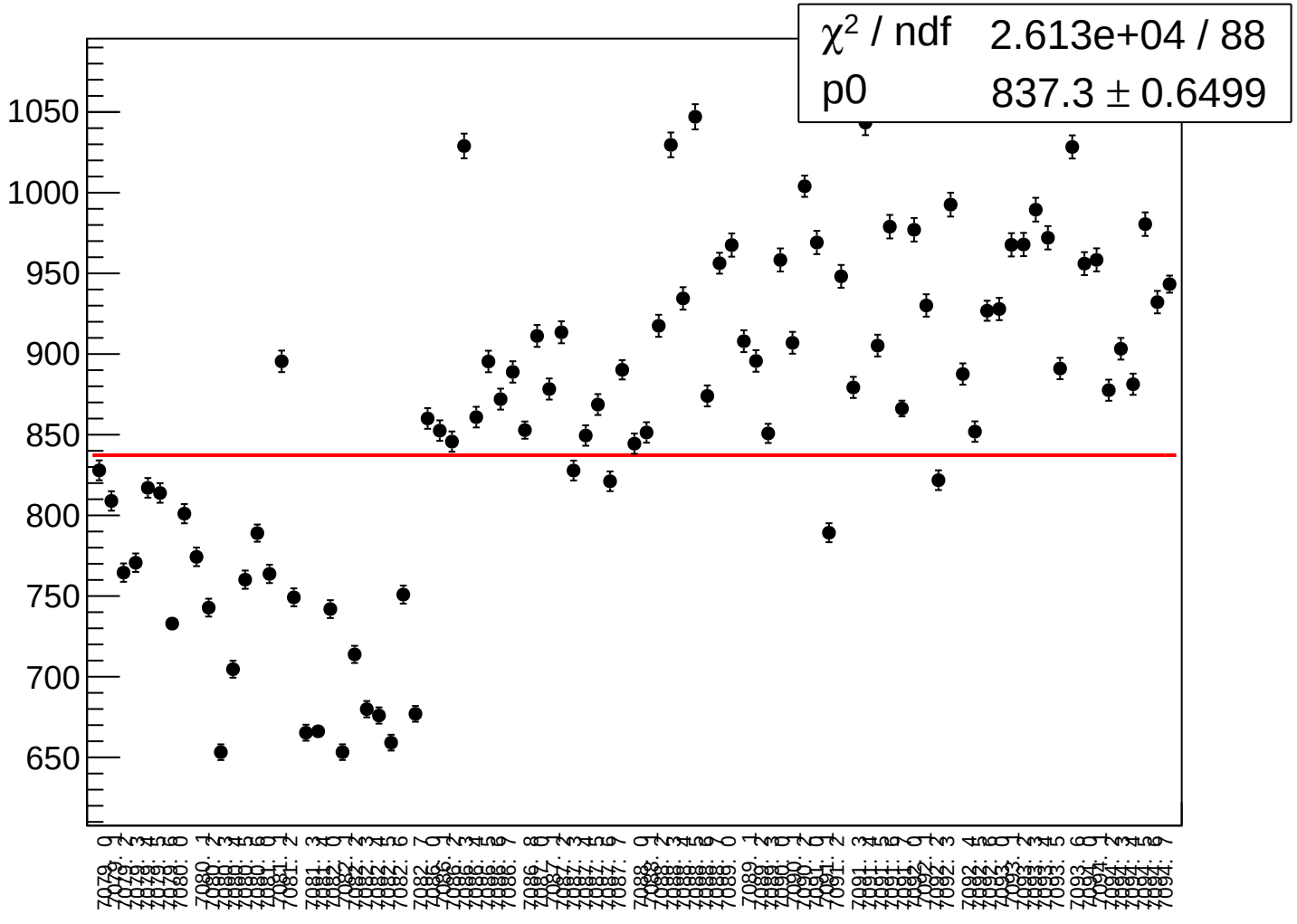

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 67.36 / 88
p0 3023 ± 2968
100
50
0
−50
−100
pull
Entries 89
Mean −79.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

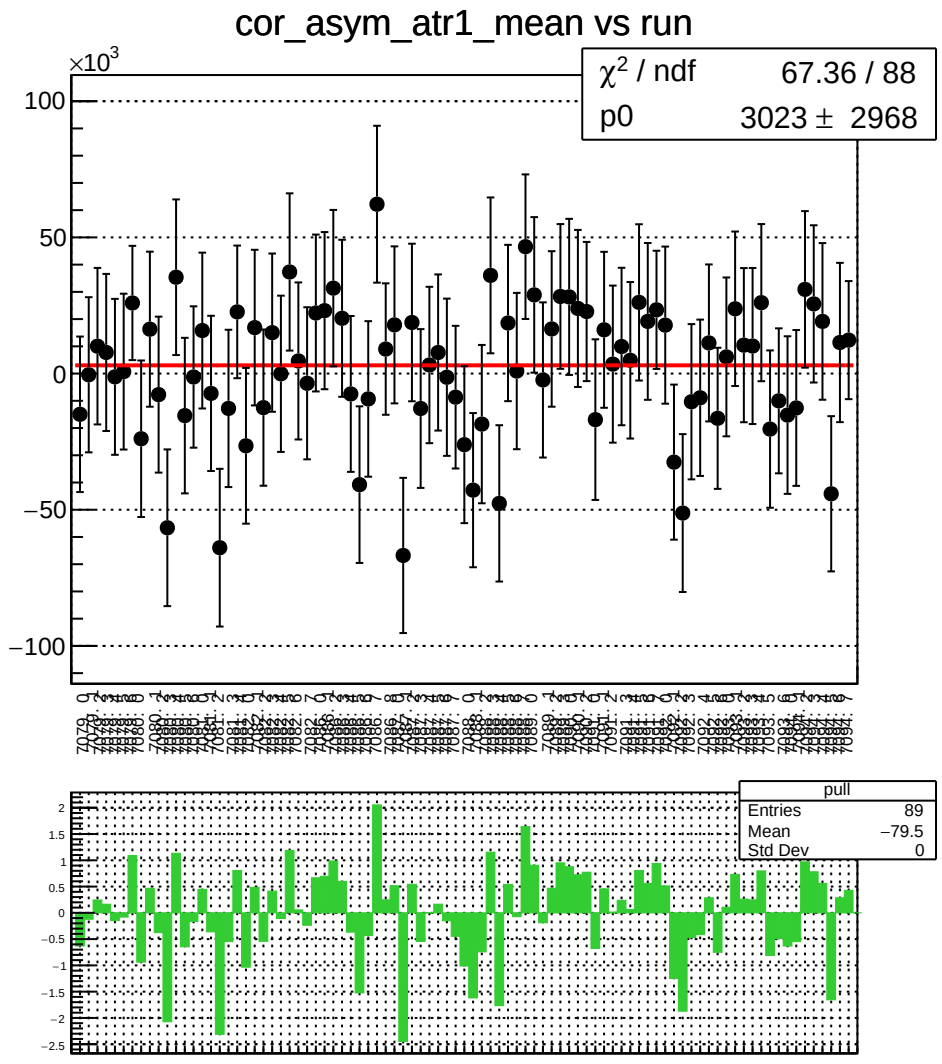

pull1D
Entries 89
Mean −0.01282
Std Dev 0.8699
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

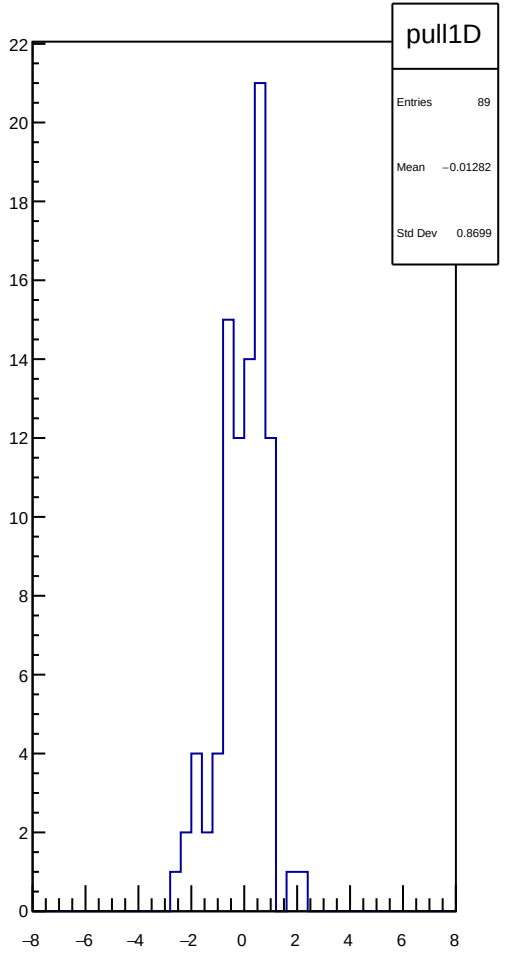

reg_asym_atr1_rms vs run
χ² / ndf 89.09 / 88
p0 2725 ± 2.099
2820
2800
2780
2760
2740
2720
2700
2680
2660

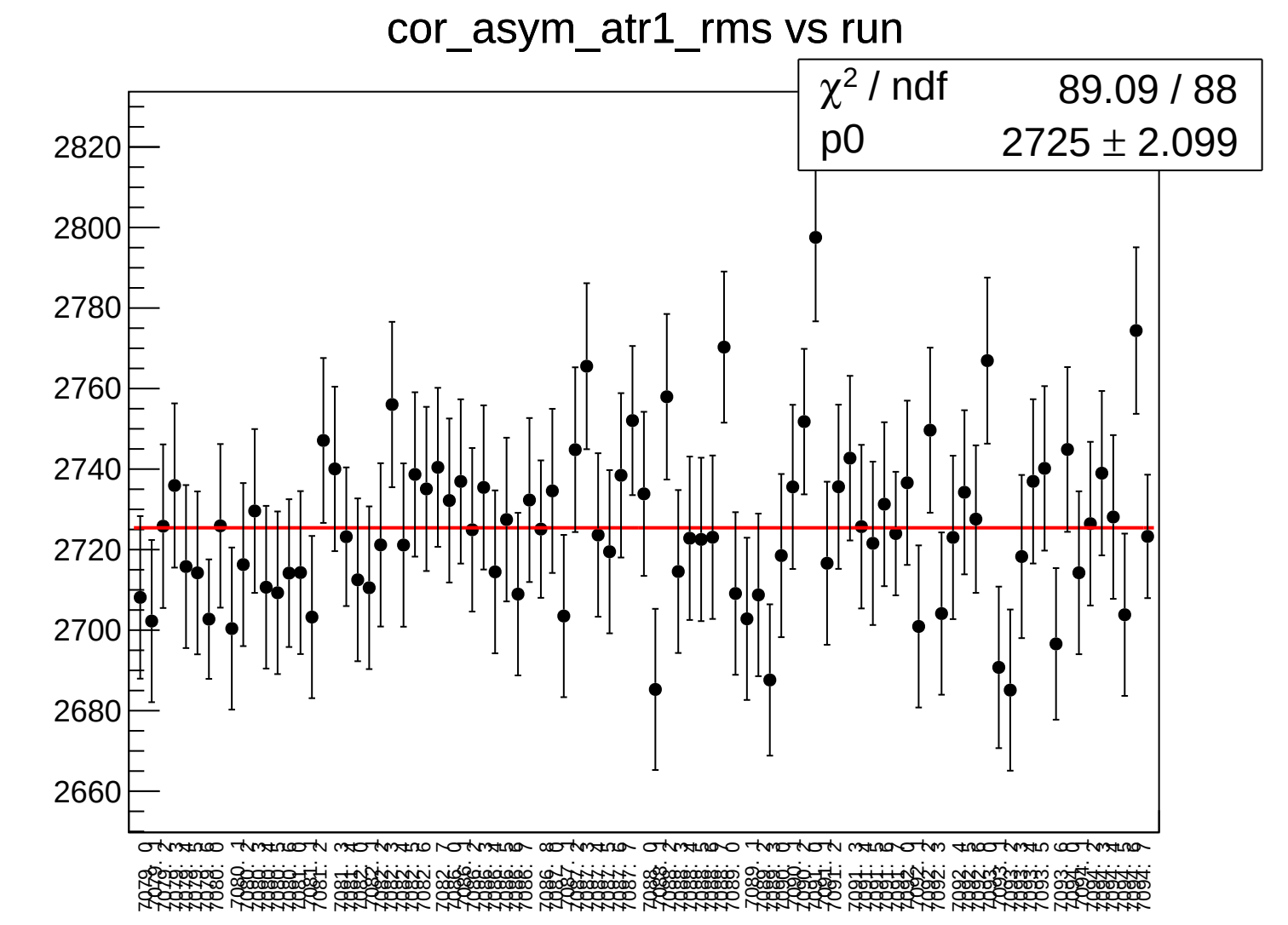

asym_atr1_reg_correction_mean vs run
χ² / ndf 71.61 / 88
p0 −1515 ± 919.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 106.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

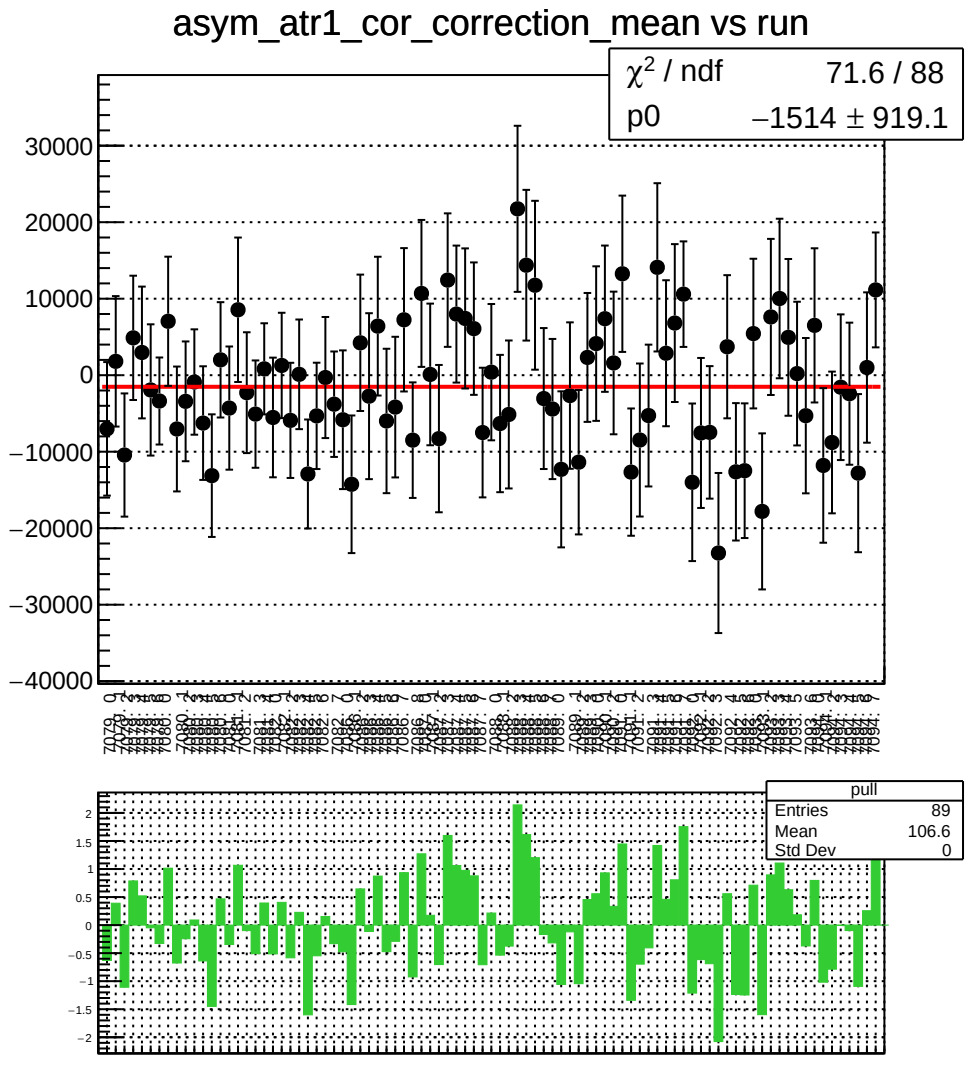

pull1D
Entries 89
Mean 0.01403
Std Dev 0.8969
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

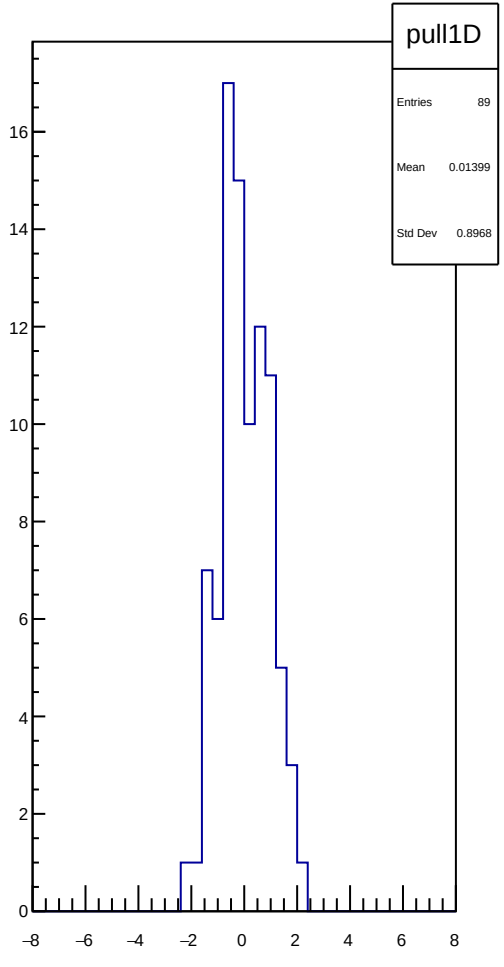

asym_atr1_reg_correction_rms vs run
χ² / ndf 2.613e+04 / 88
p0 837.3 ± 0.6499
1050
1000
950
900
850
800
750
700
650

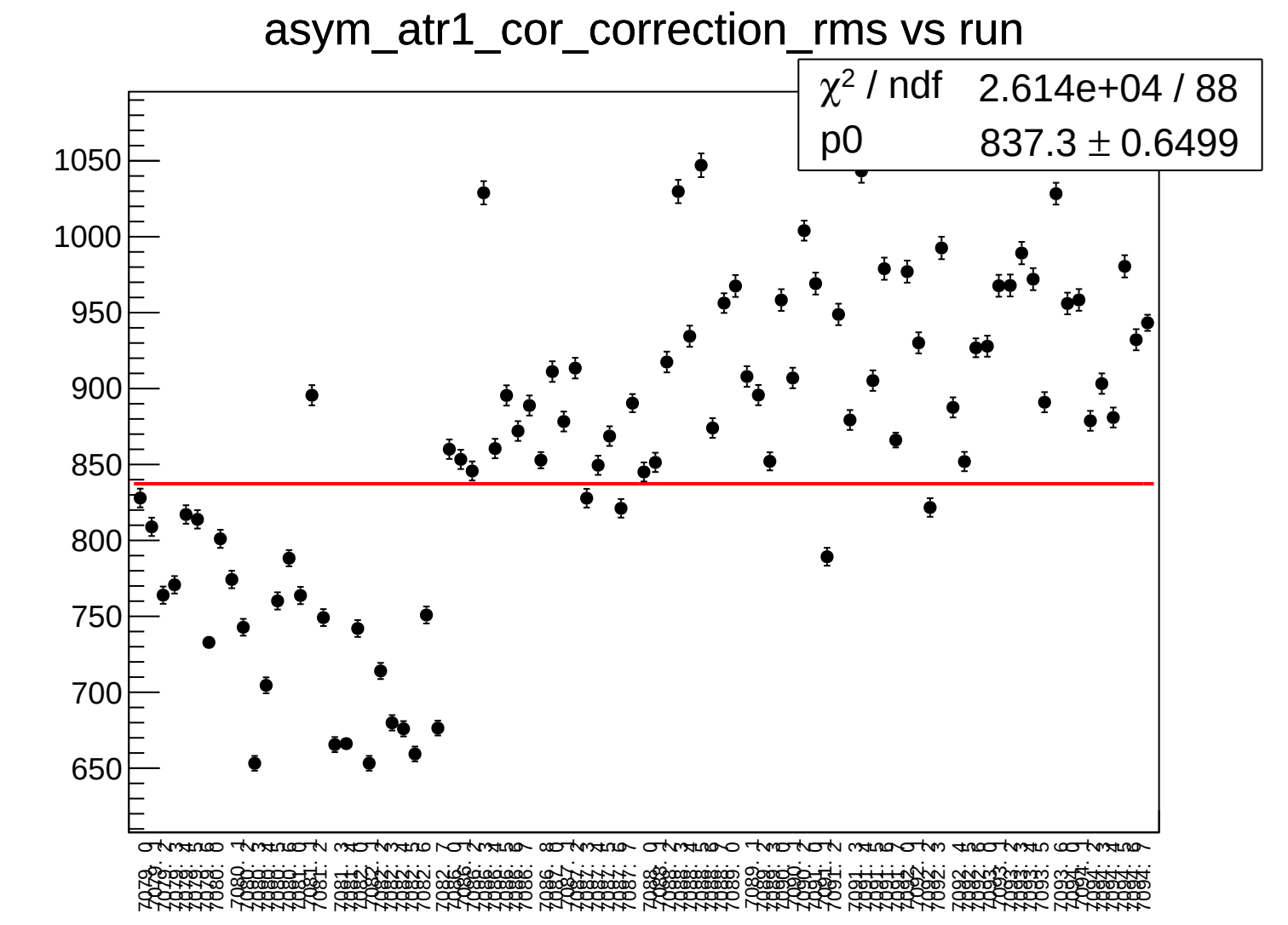

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 67.36 / 88
p0 3023 ± 2968
100
50
0
−50
−100
pull
Entries 89
Mean −79.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

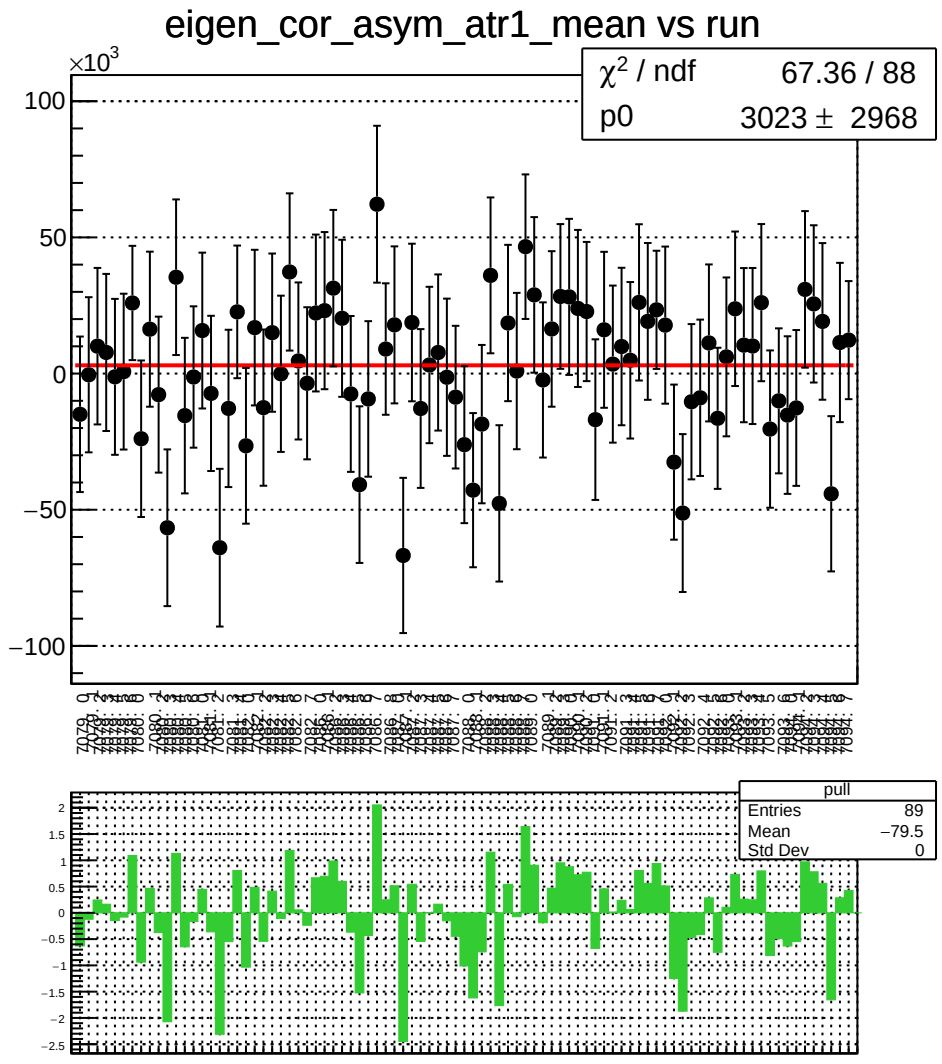

pull1D
Entries 89
Mean −0.01282
Std Dev 0.8699
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

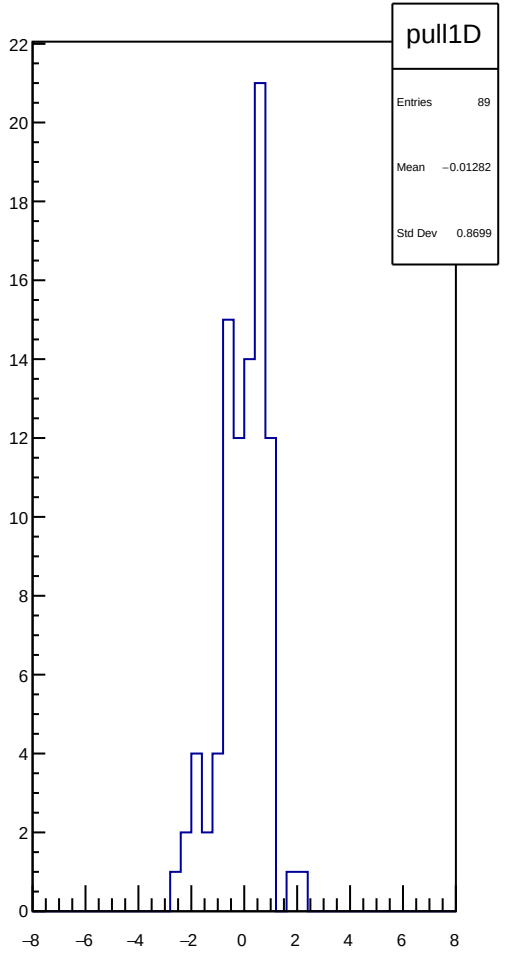

cor_asym_atr1_rms vs run
χ^2 / ndf 89.09 / 88
p0 2725 ± 2.099
2820
2800
2780
2760
2740
2720
2700
2680
2660

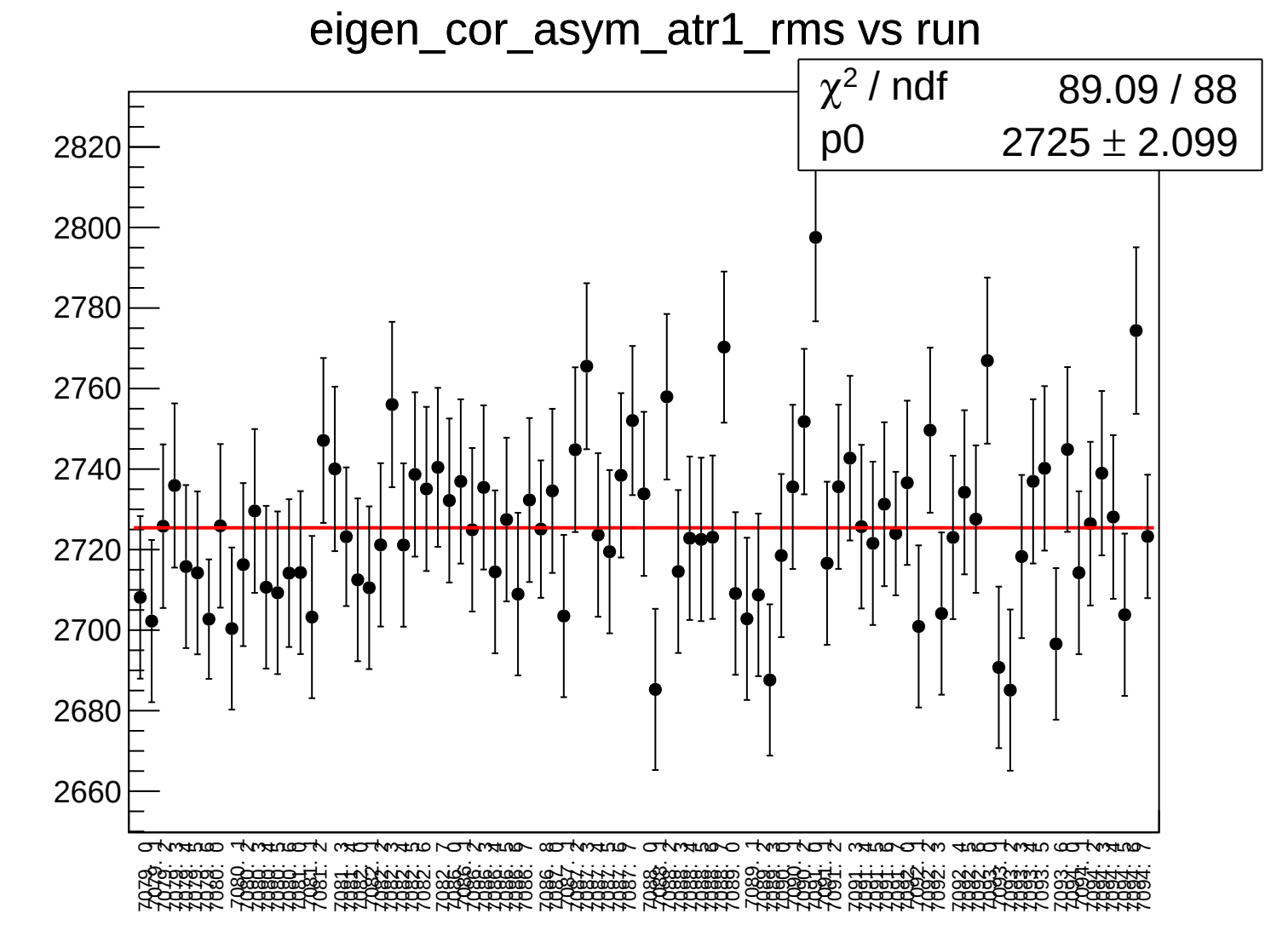

asym_atr1_cor_correction_mean vs run
χ² / ndf 71.6 / 88
p0 −1514 ± 919.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 106.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

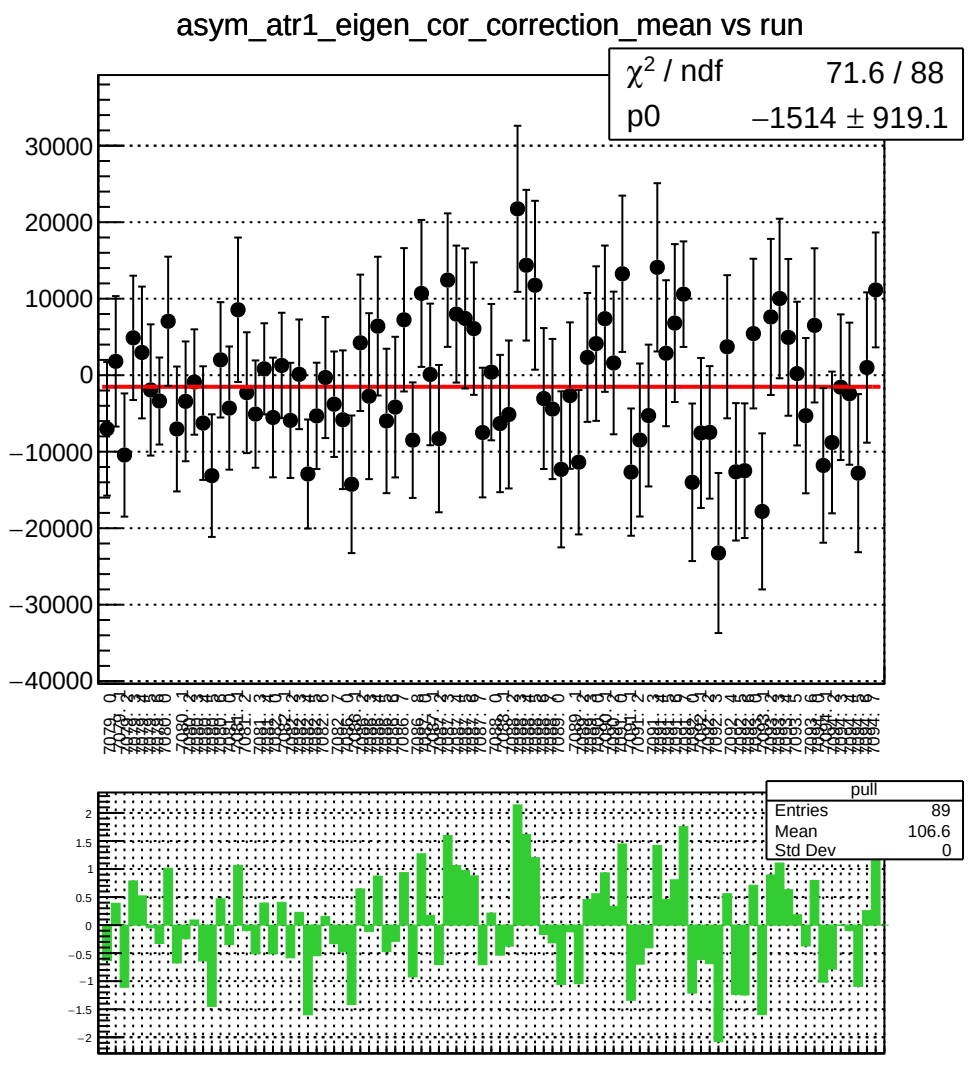

pull1D
Entries 89
Mean 0.01399
Std Dev 0.8968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

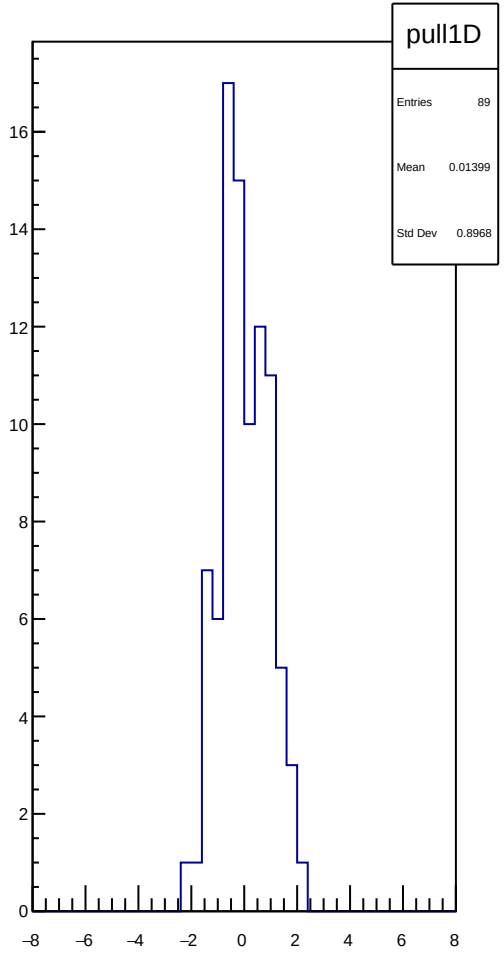

asym_atr1_cor_correction_rms vs run
χ² / ndf 2.614e+04 / 88
p0 837.3 ± 0.6499
1050
1000
950
900
850
800
750
700
650


eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 67.36 / 88
p0 3023 ± 2968
100
50
0
−50
−100
pull
Entries 89
Mean −79.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 89
Mean −0.01282
Std Dev 0.8699
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr1_rms vs run
χ² / ndf 89.09 / 88
p0 2725 ± 2.099
2820
2800
2780
2760
2740
2720
2700
2680
2660


asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 71.6 / 88
p0 −1514 ± 919.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 106.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean 0.01399
Std Dev 0.8968
16
14
12
10
8
6
4
2
0
−8
−6
−4
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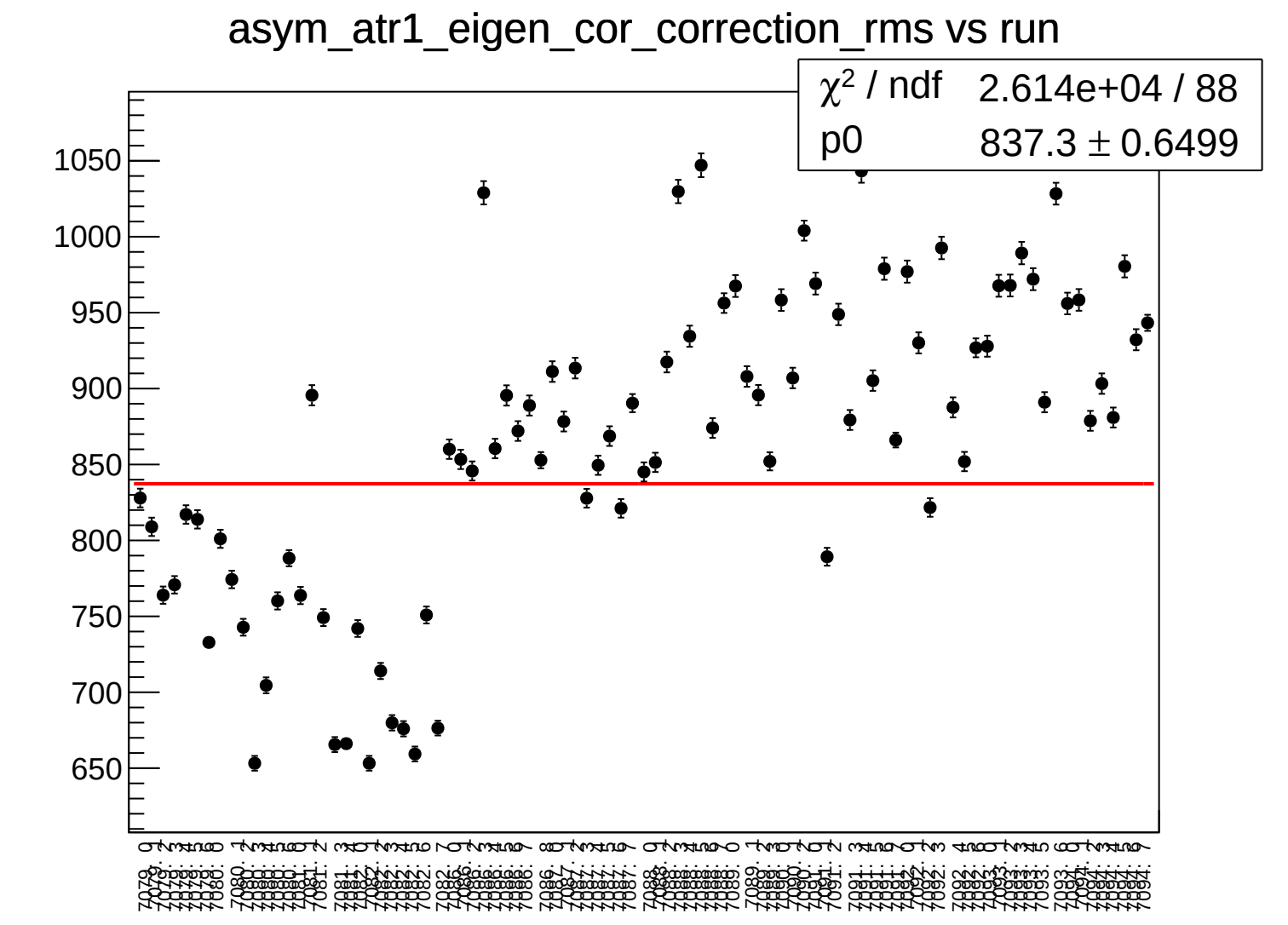
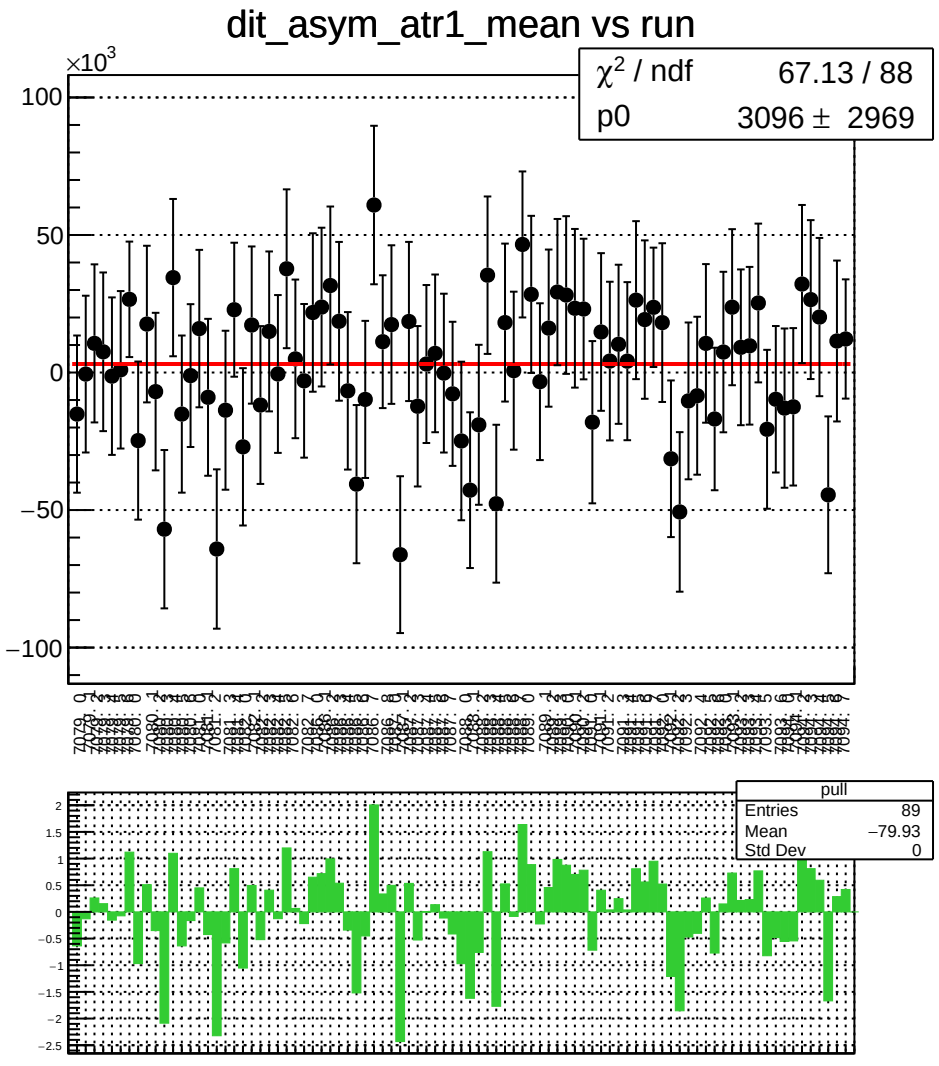
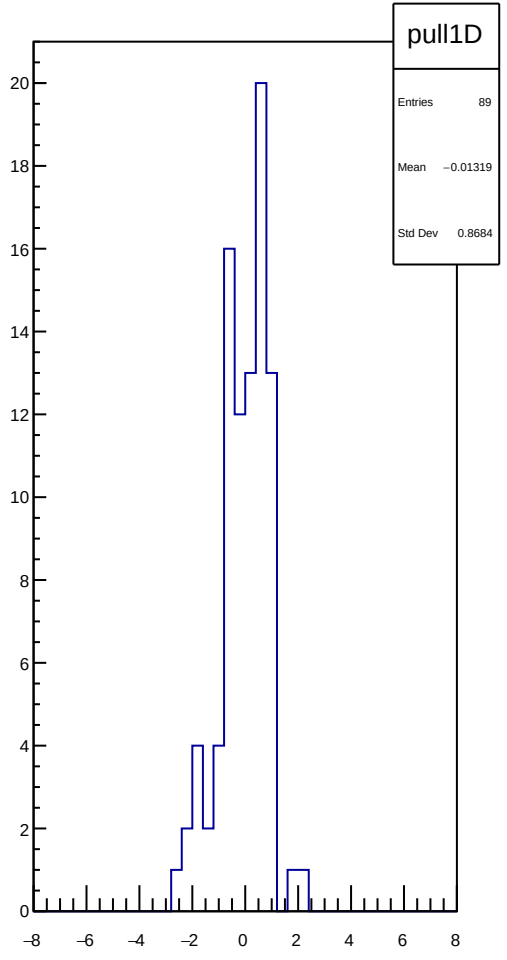
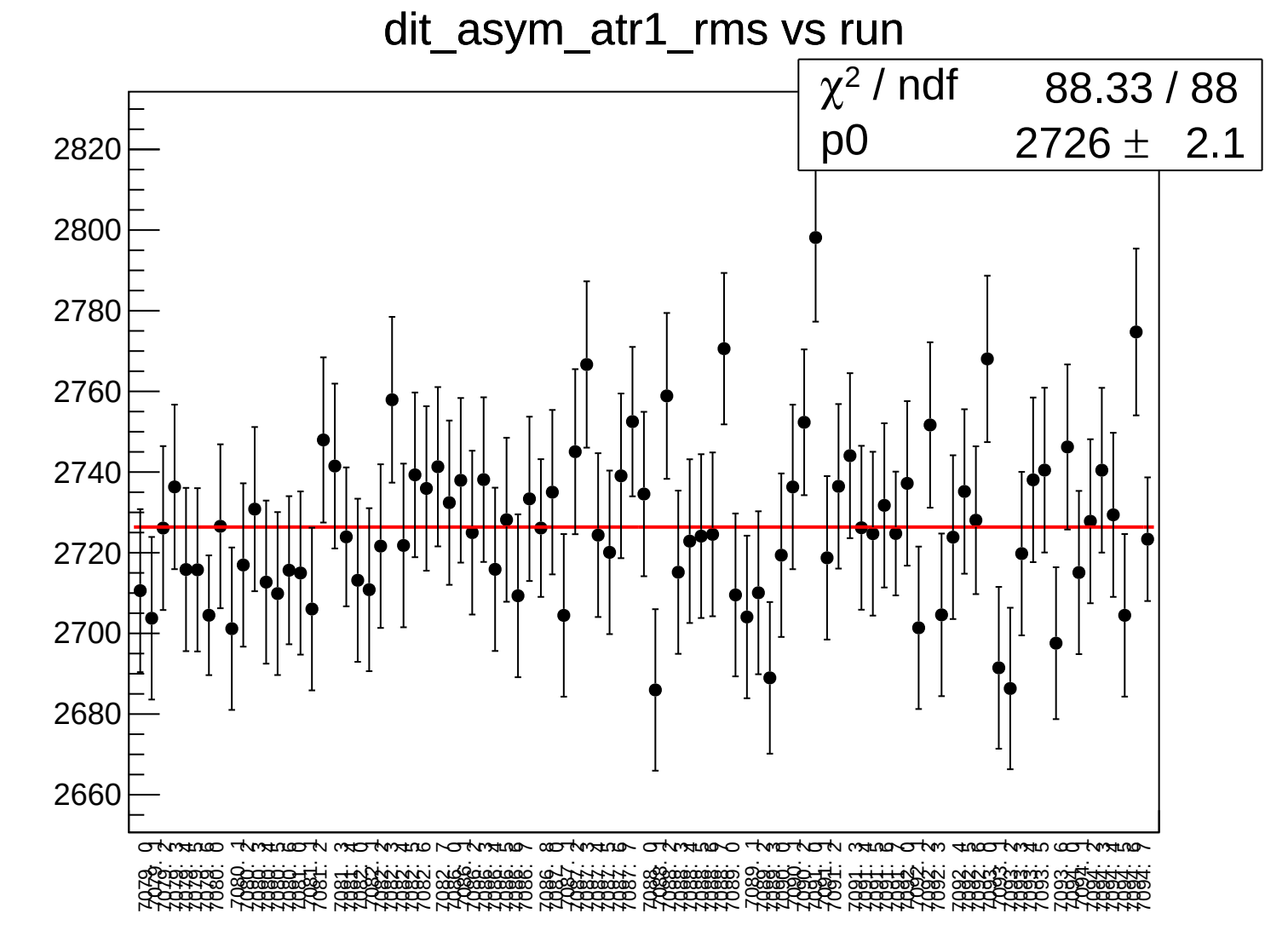
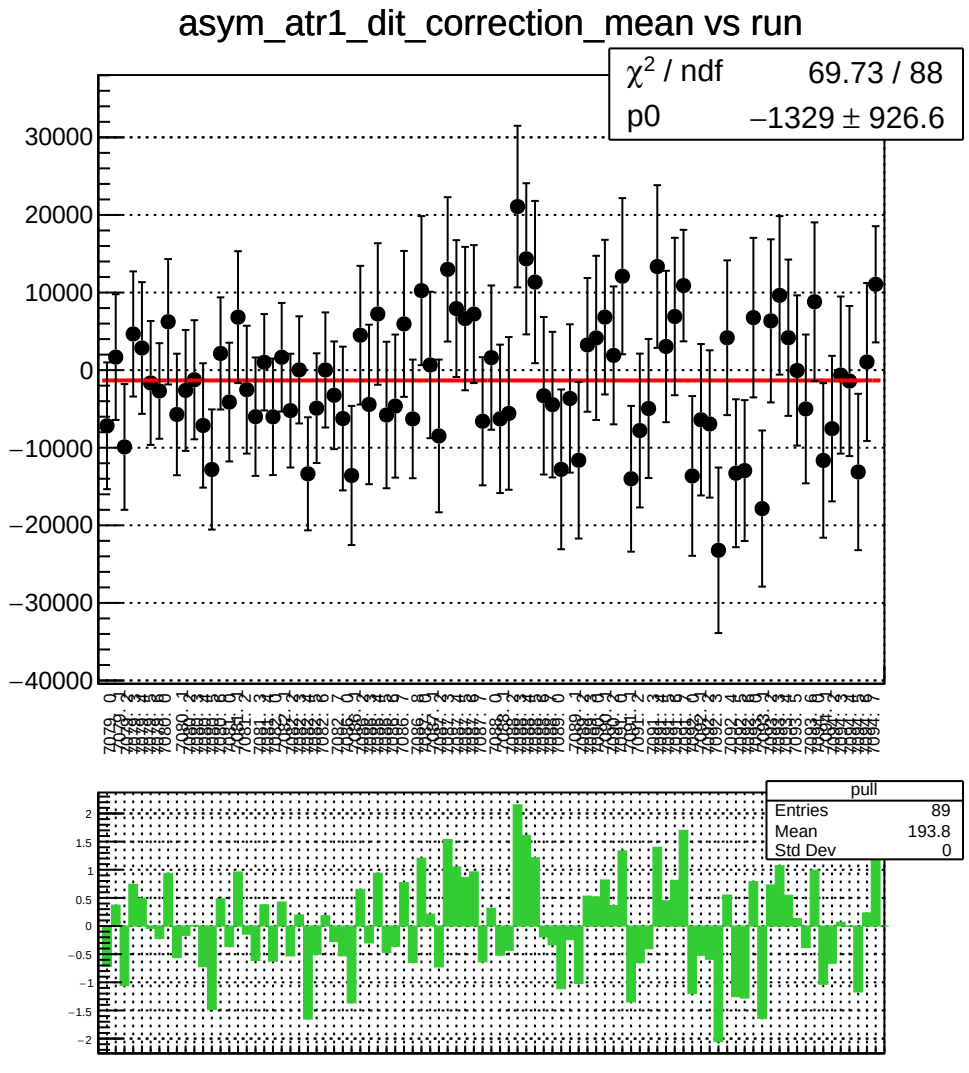
0
2
4
6
8

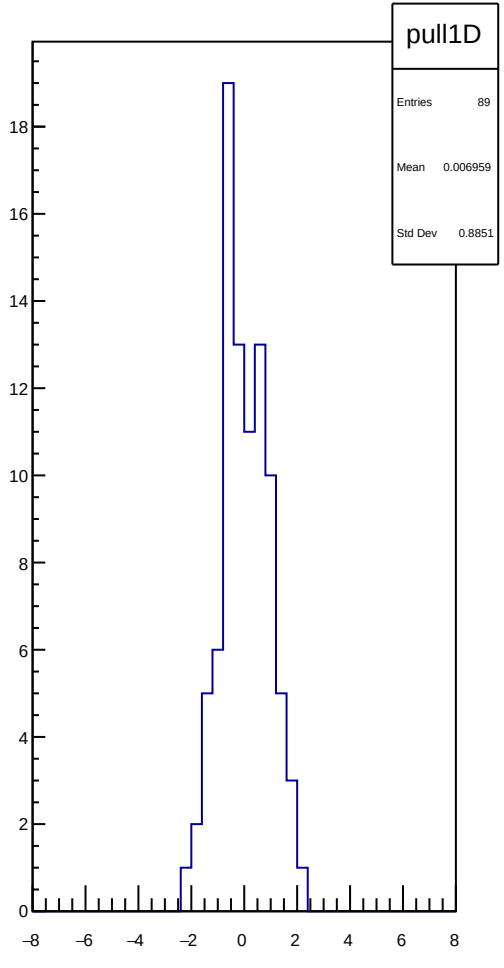

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2.614e+04 / 88
p0 837.3 ± 0.6499
1050
1000
950
900
850
800
750
700
650

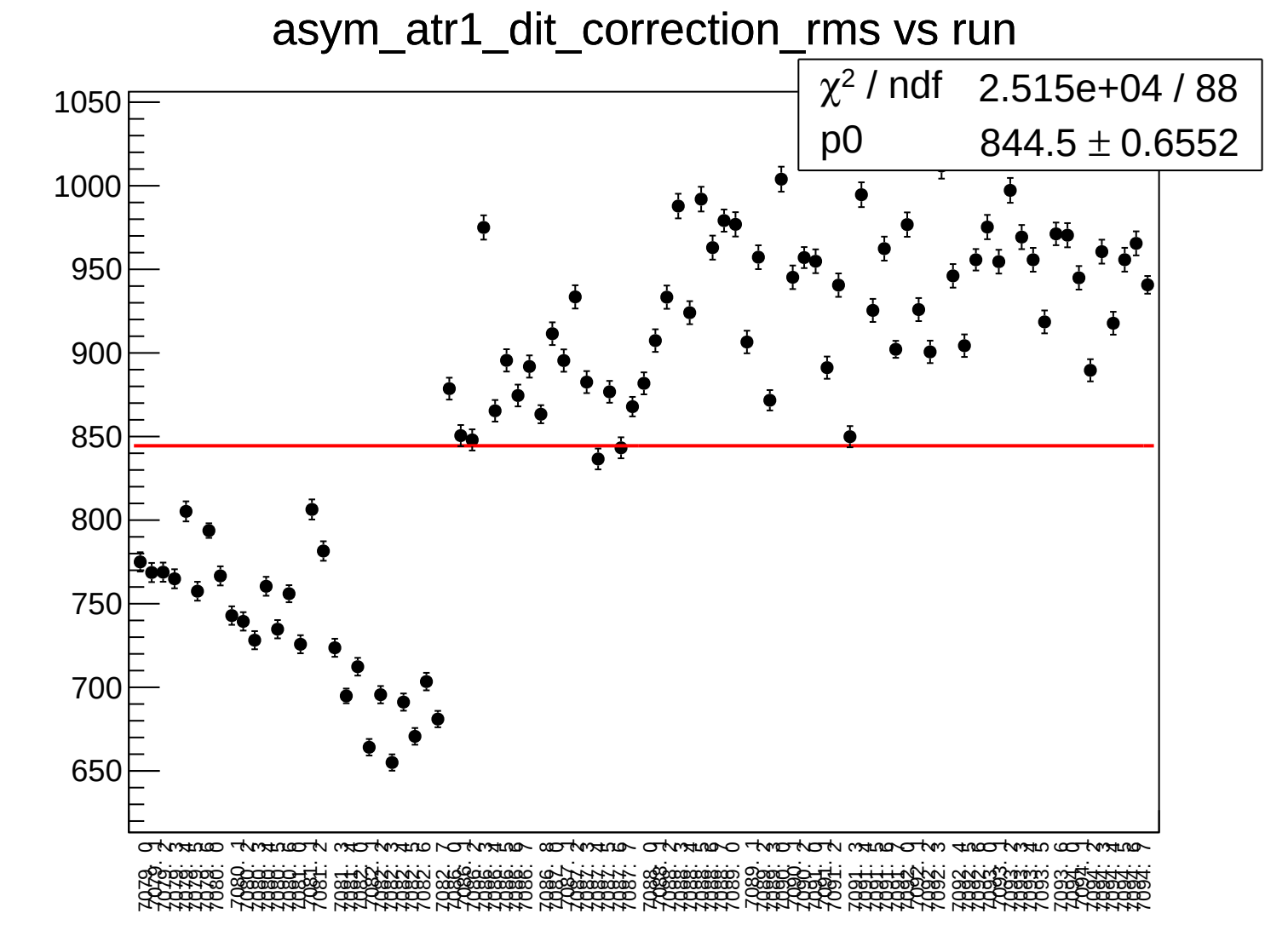

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 67.13 / 88
p0 3096 ± 2969
100
50
0
−50
−100
pull
Entries 89
Mean −79.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

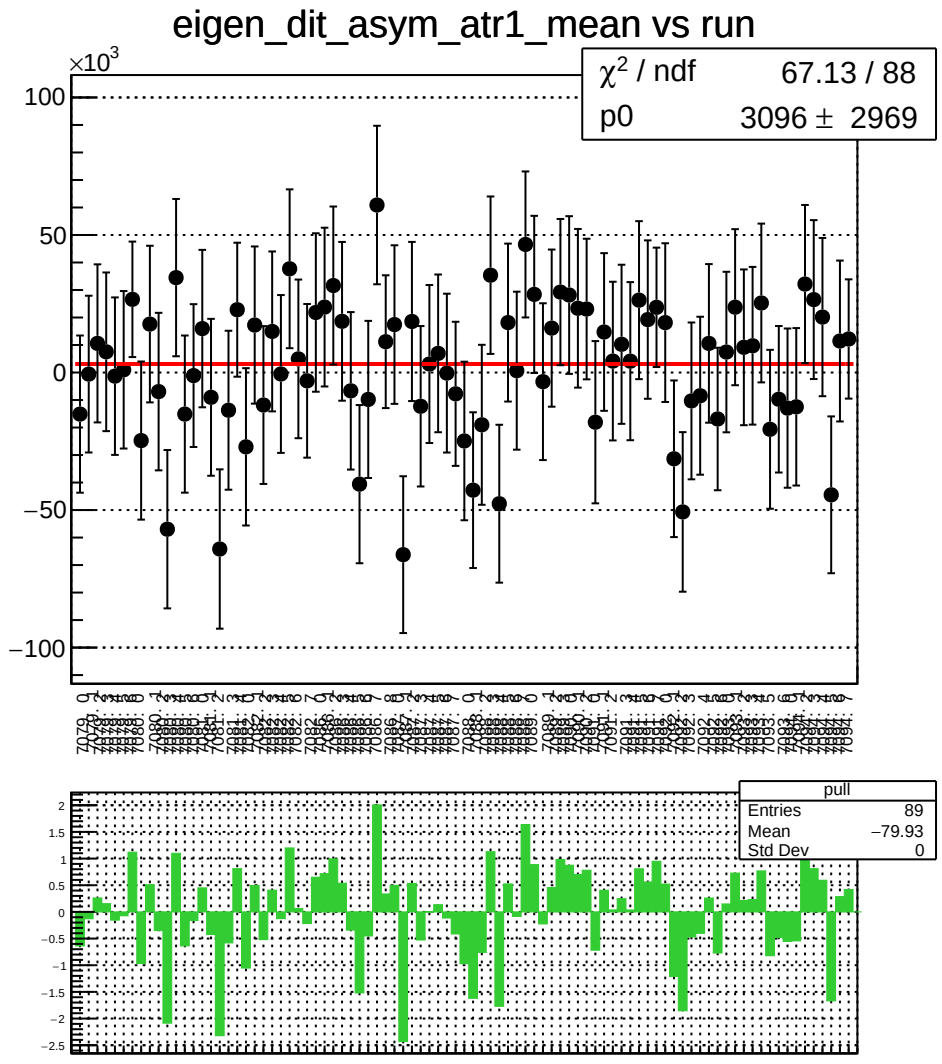

pull1D
Entries 89
Mean −0.01319
Std Dev 0.8684
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

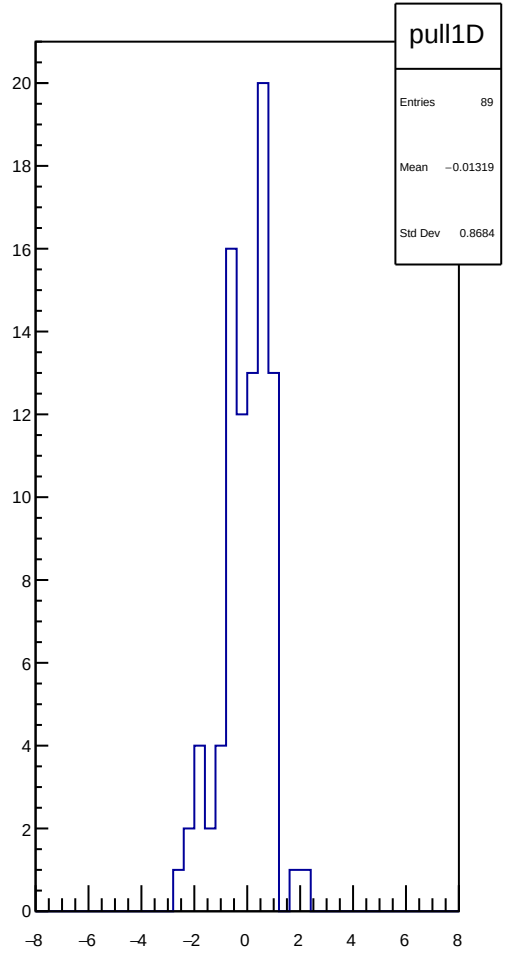

dit_asym_atr1_rms vs run
χ² / ndf 88.33 / 88
p0 2726 ± 2.1
2820
2800
2780
2760
2740
2720
2700
2680
2660

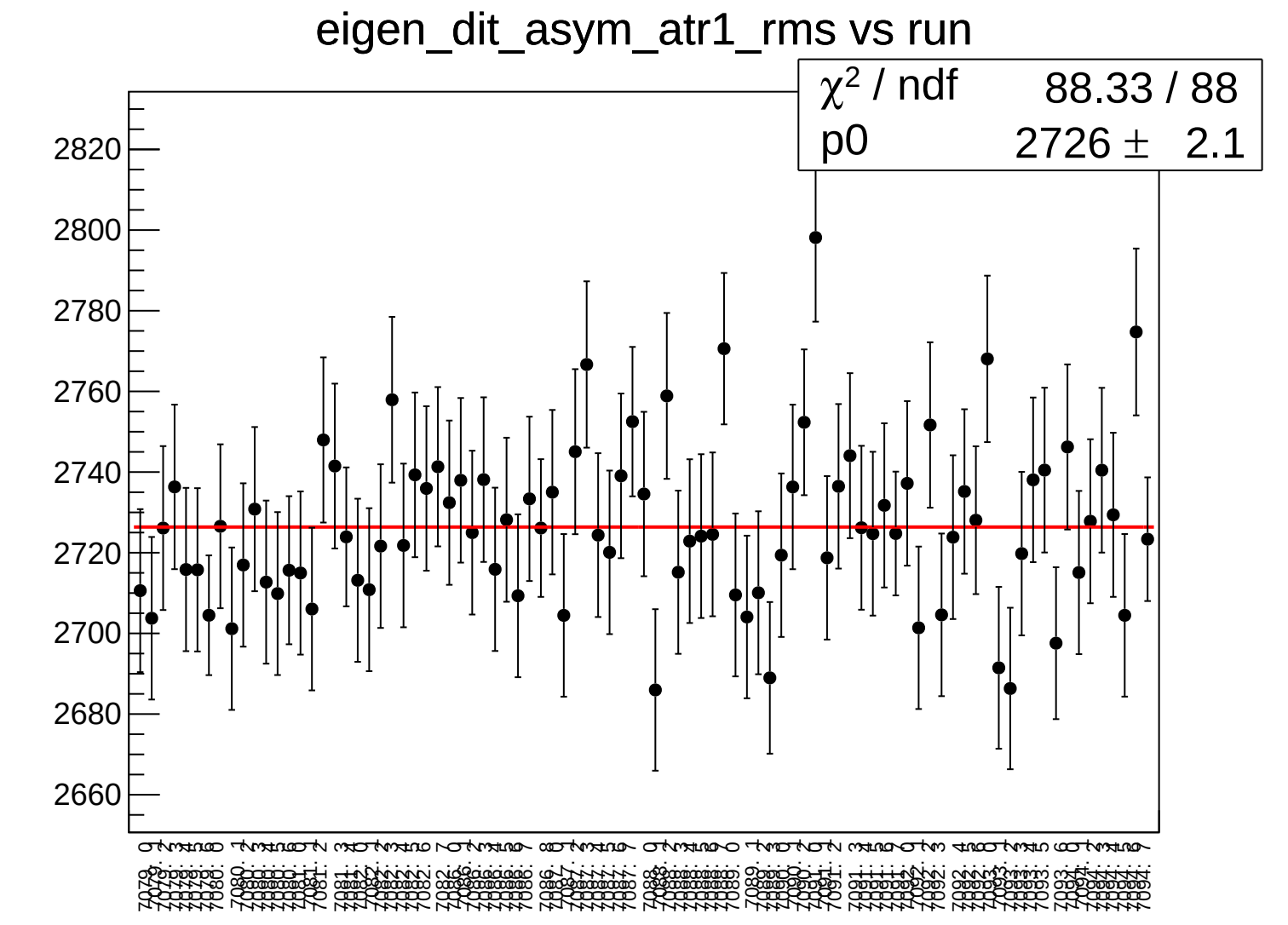

asym_atr1_dit_correction_mean vs run
χ² / ndf 69.73 / 88
p0 −1329 ± 926.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 193.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

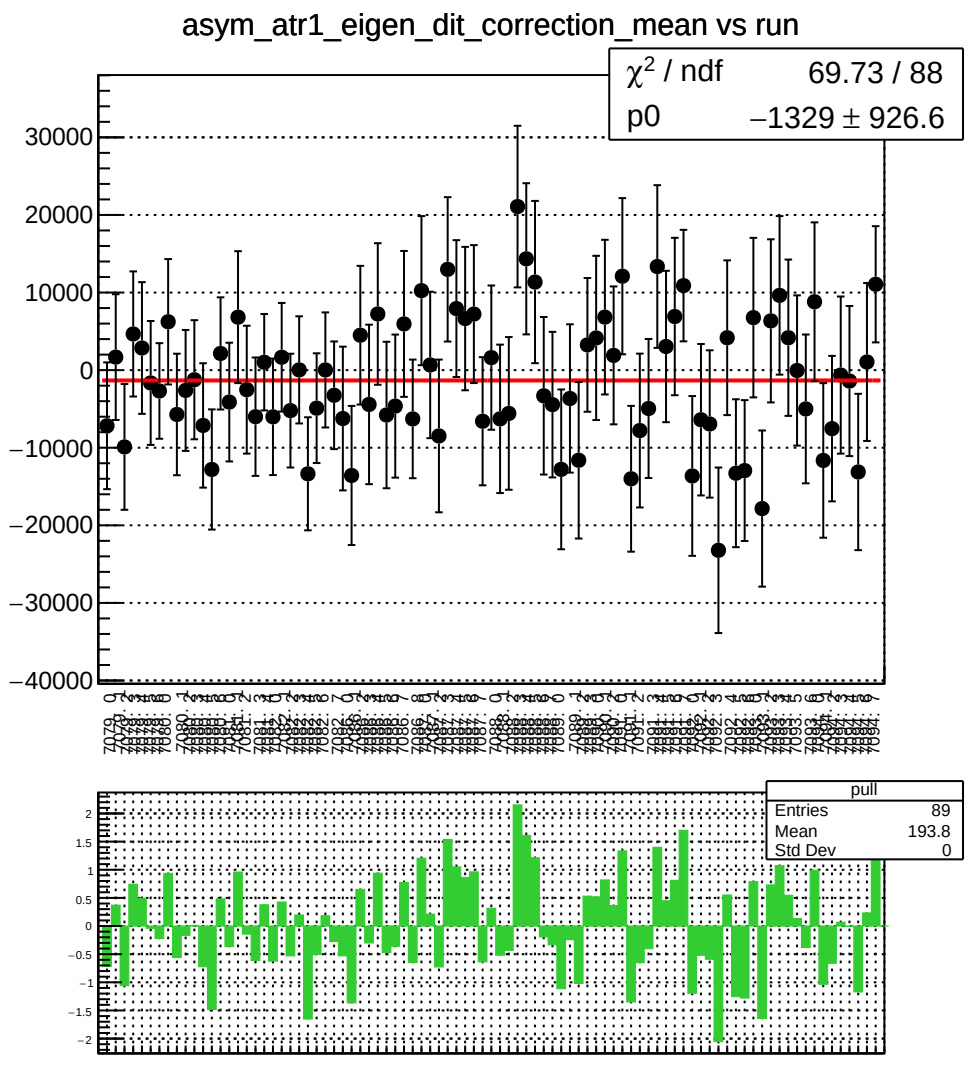

pull1D
Entries 89
Mean 0.006959
Std Dev 0.8851
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

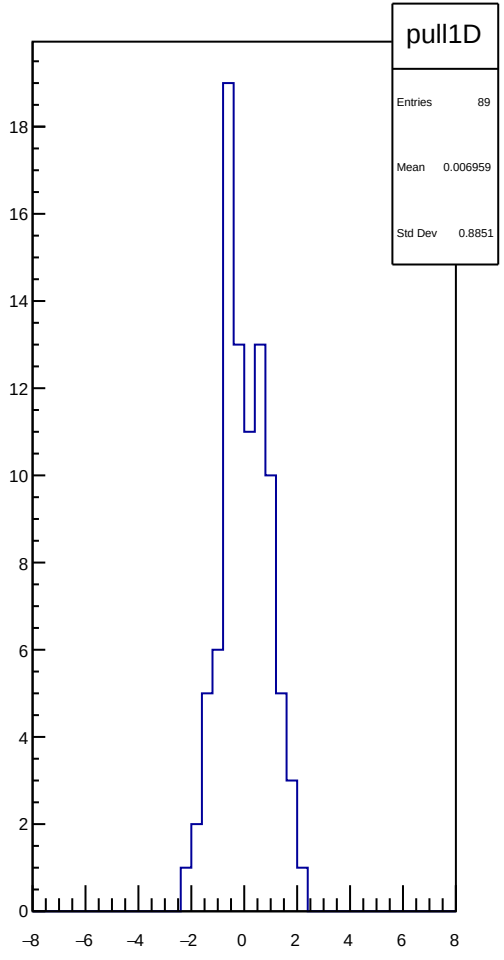

asym_atr1_dit_correction_rms vs run
χ² / ndf 2.515e+04 / 88
p0 844.5 ± 0.6552
1050
1000
950
900
850
800
750
700
650

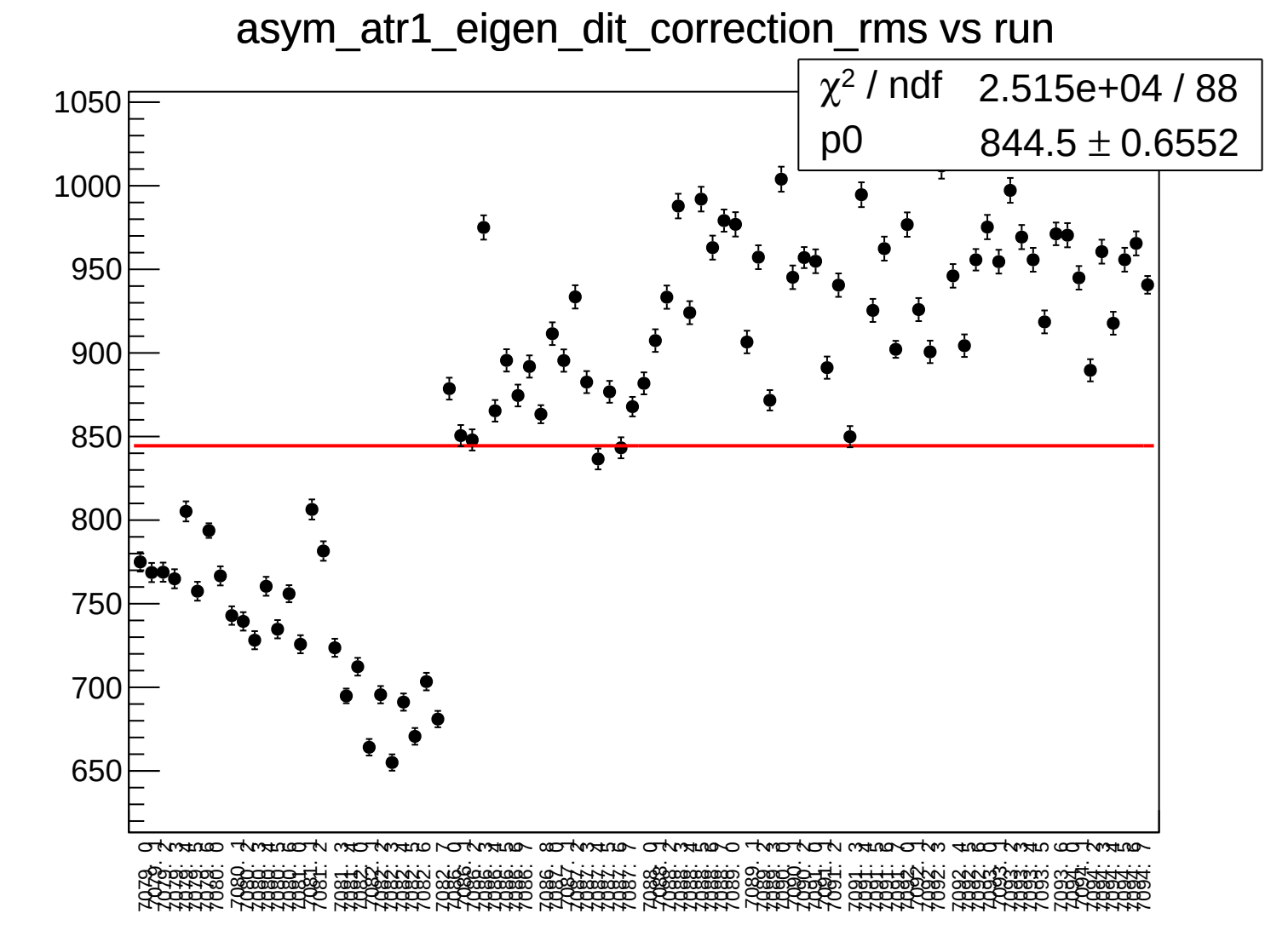

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 67.13 / 88
p0 3096 ± 2969
100
50
0
−50
−100
pull
Entries 89
Mean −79.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

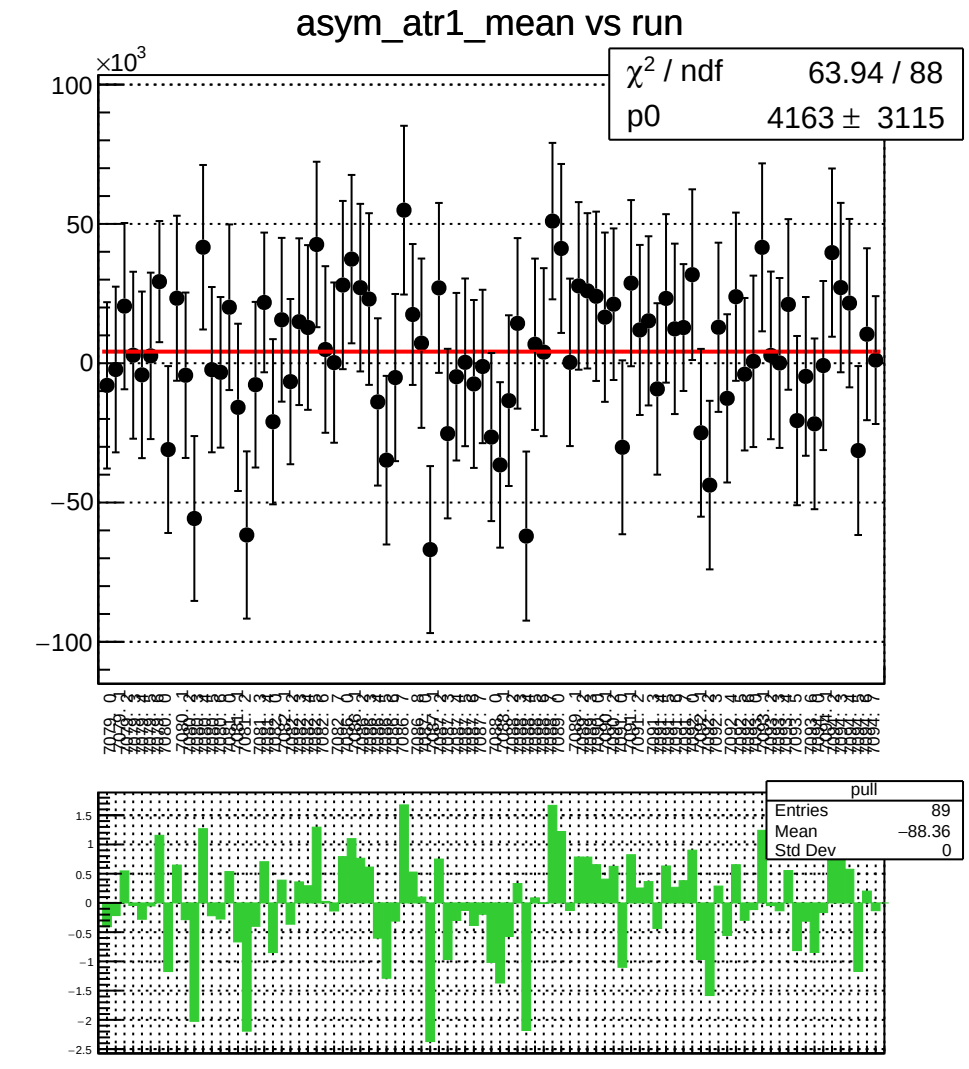

pull1D
Entries 89
Mean −0.01319
Std Dev 0.8684
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

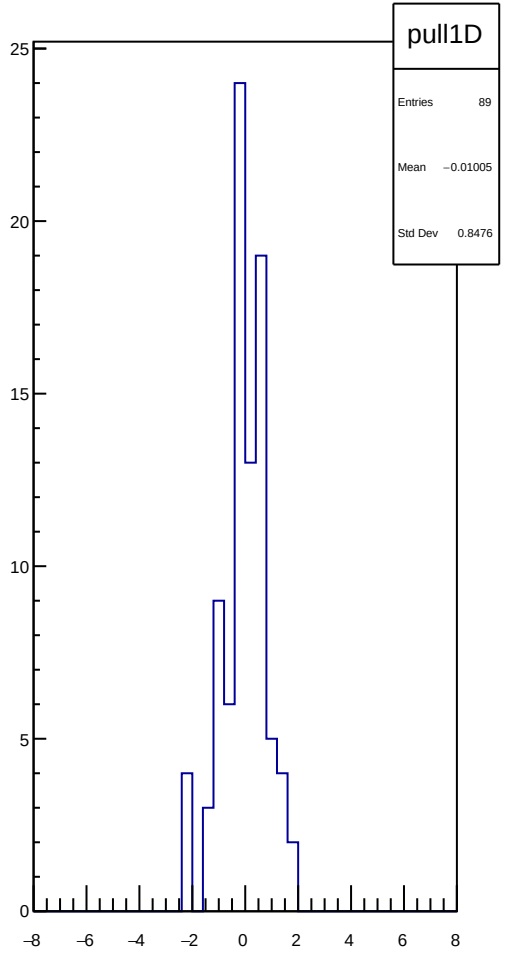

eigen_dit_asym_atr1_rms vs run
χ² / ndf 88.33 / 88
p0 2726 ± 2.1
2820
2800
2780
2760
2740
2720
2700
2680
2660

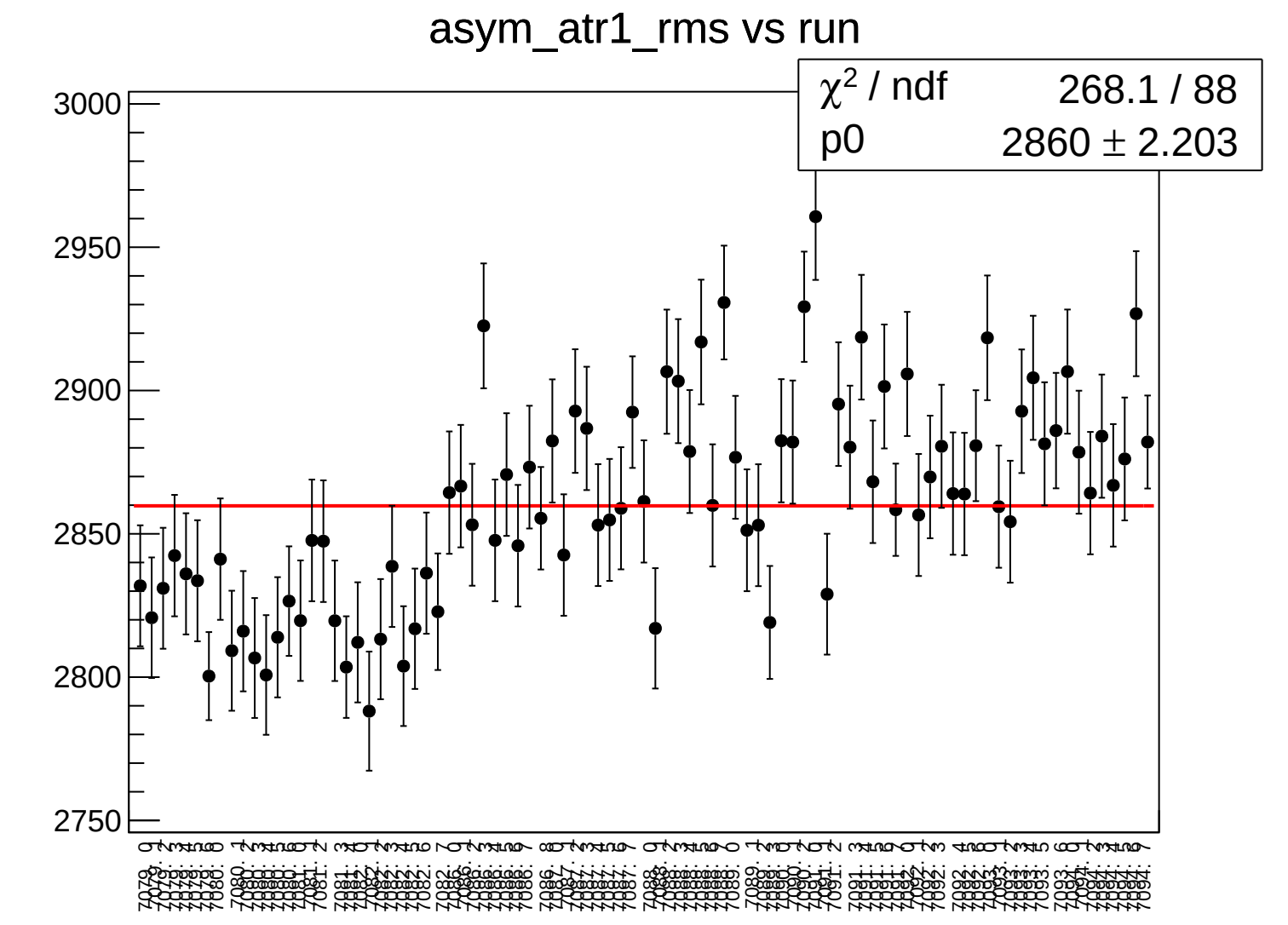

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 69.73 / 88
p0 −1329 ± 926.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 193.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

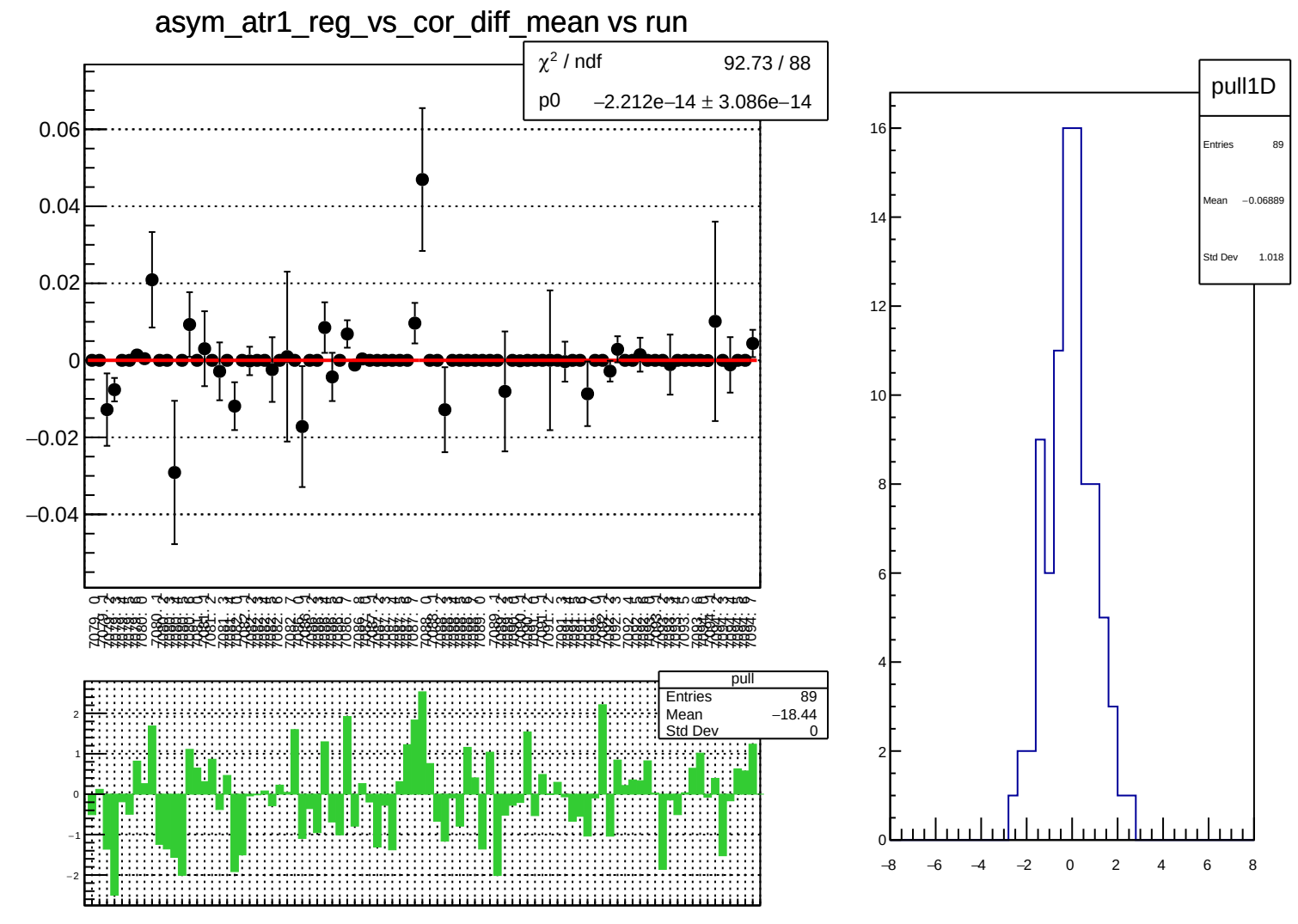

pull1D
Entries 89
Mean 0.006959
Std Dev 0.8851
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

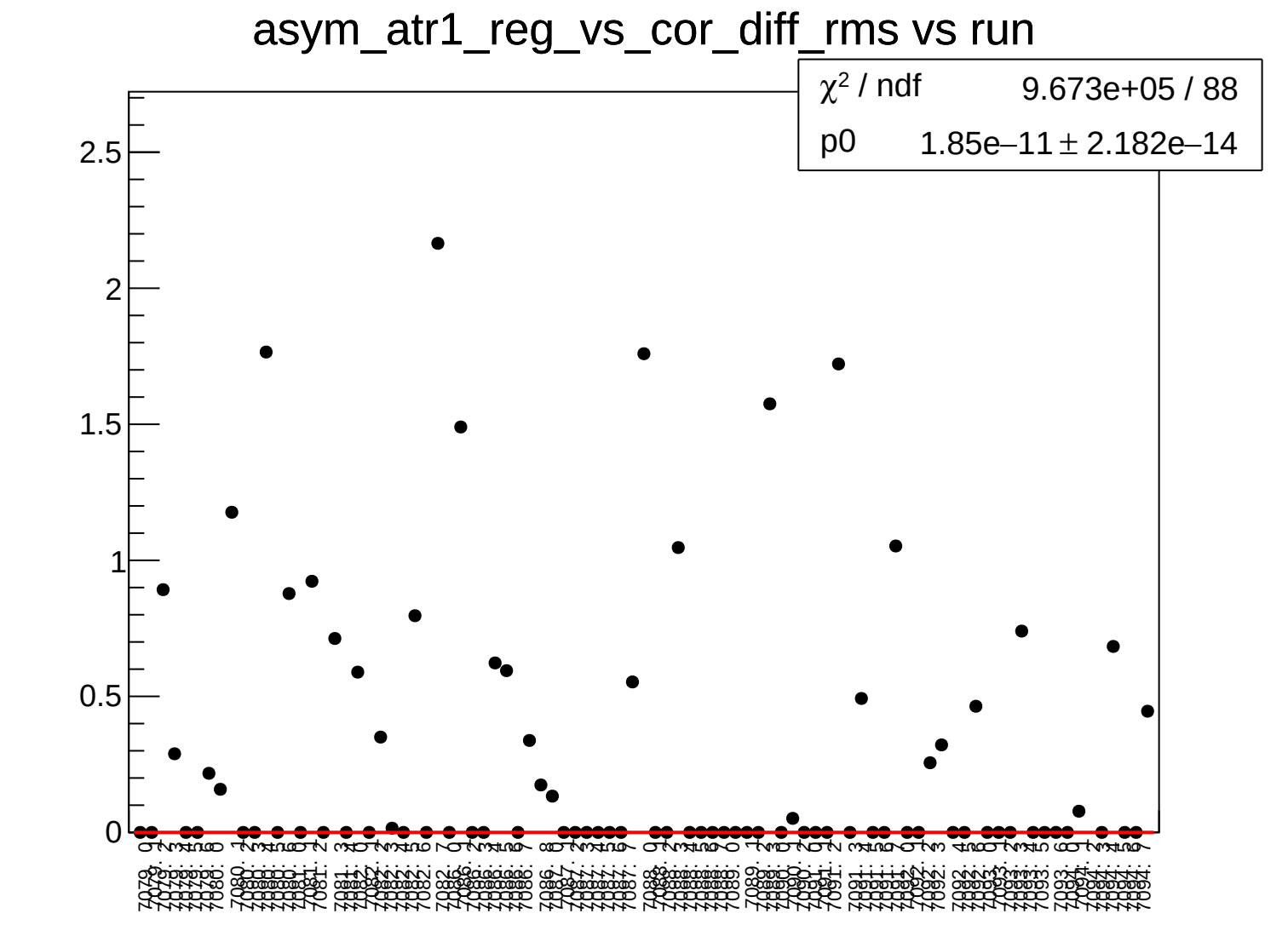

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2.515e+04 / 88
p0 844.5 ± 0.6552
1050
1000
950
900
850
800
750
700
650

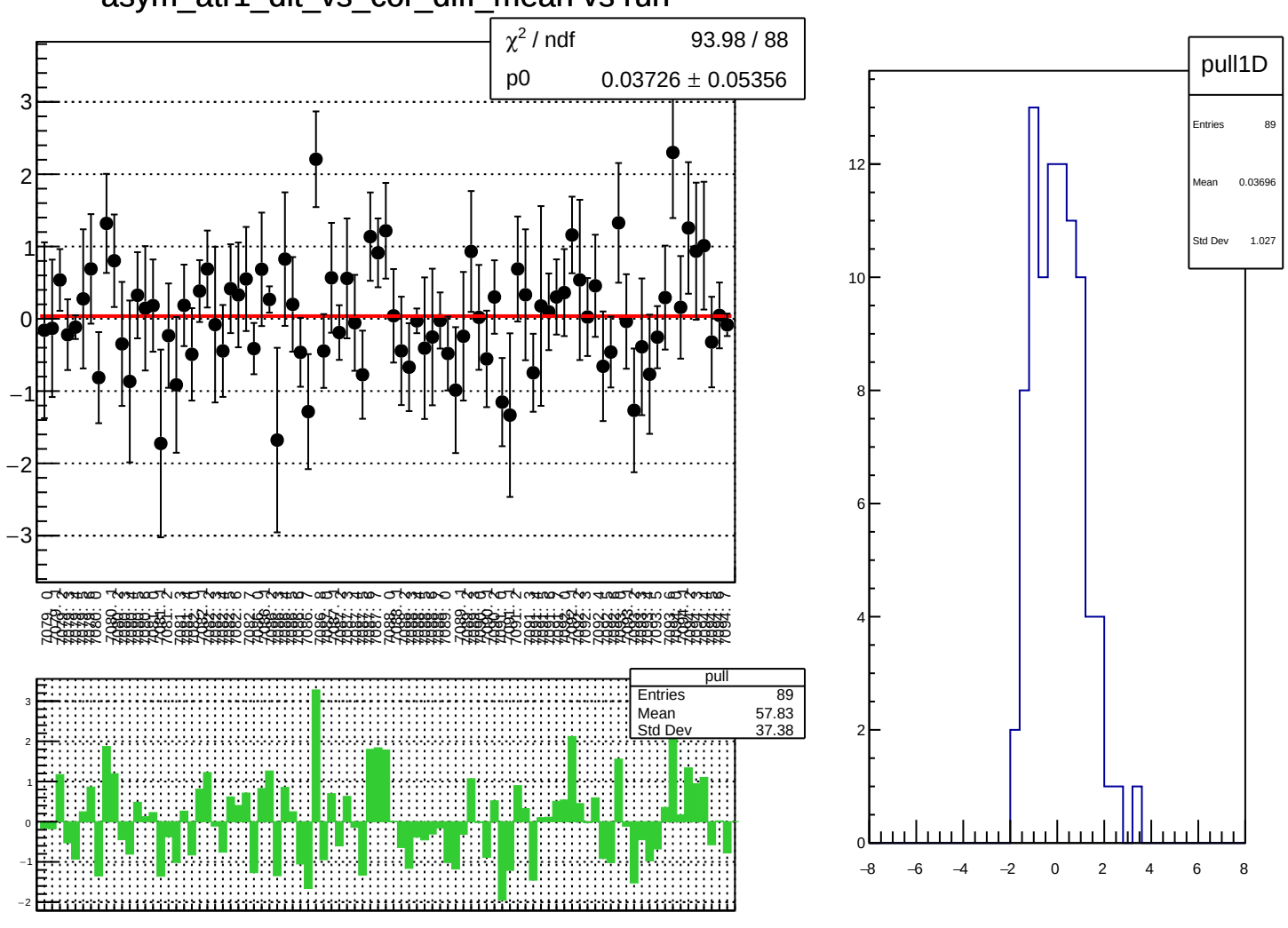

asym_atr1_mean vs run
×10^3
χ² / ndf 63.94 / 88
p0 4163 ± 3115
100
50
0
−50
−100
pull
Entries 89
Mean −88.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

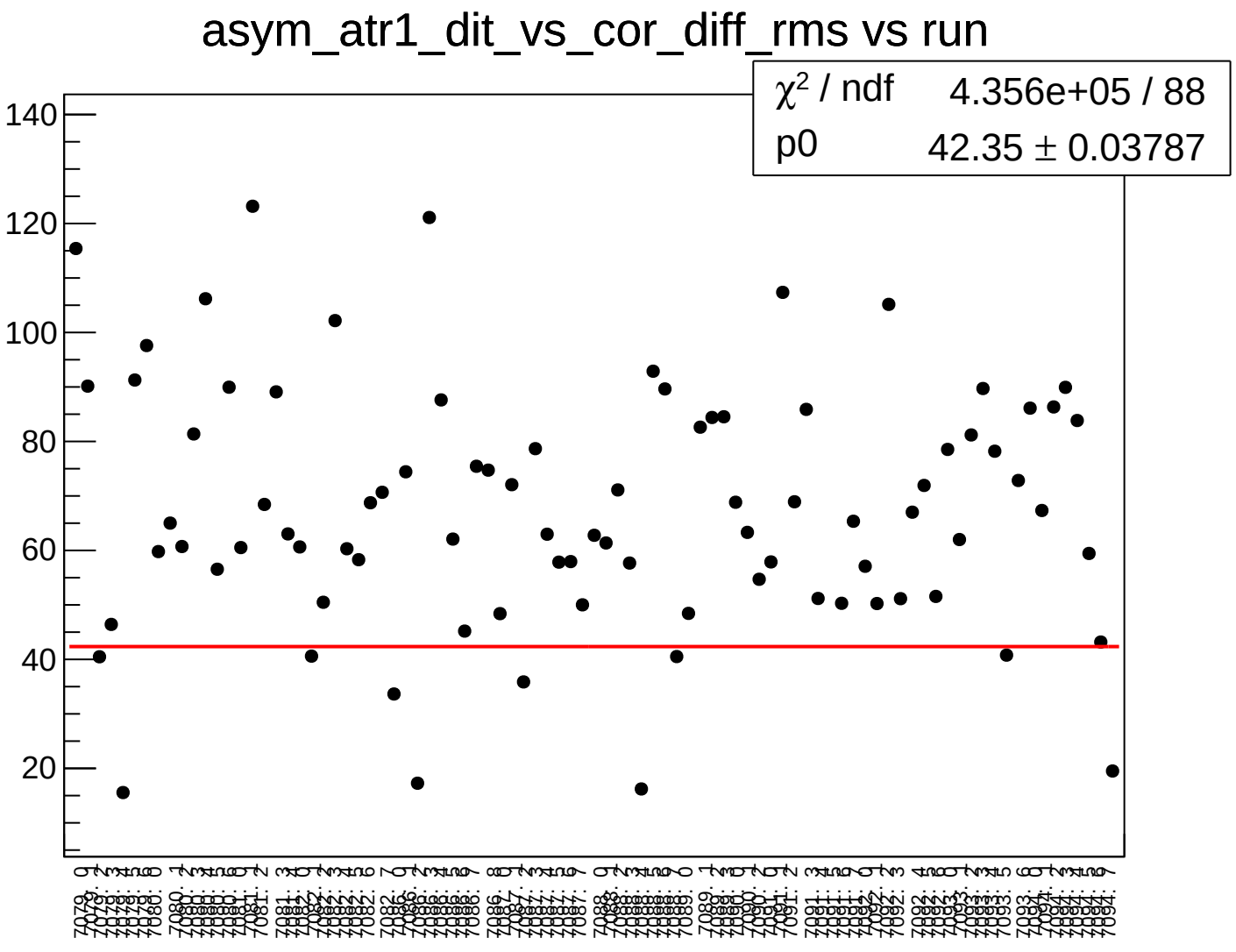

pull1D
Entries 89
Mean −0.01005
Std Dev 0.8476
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

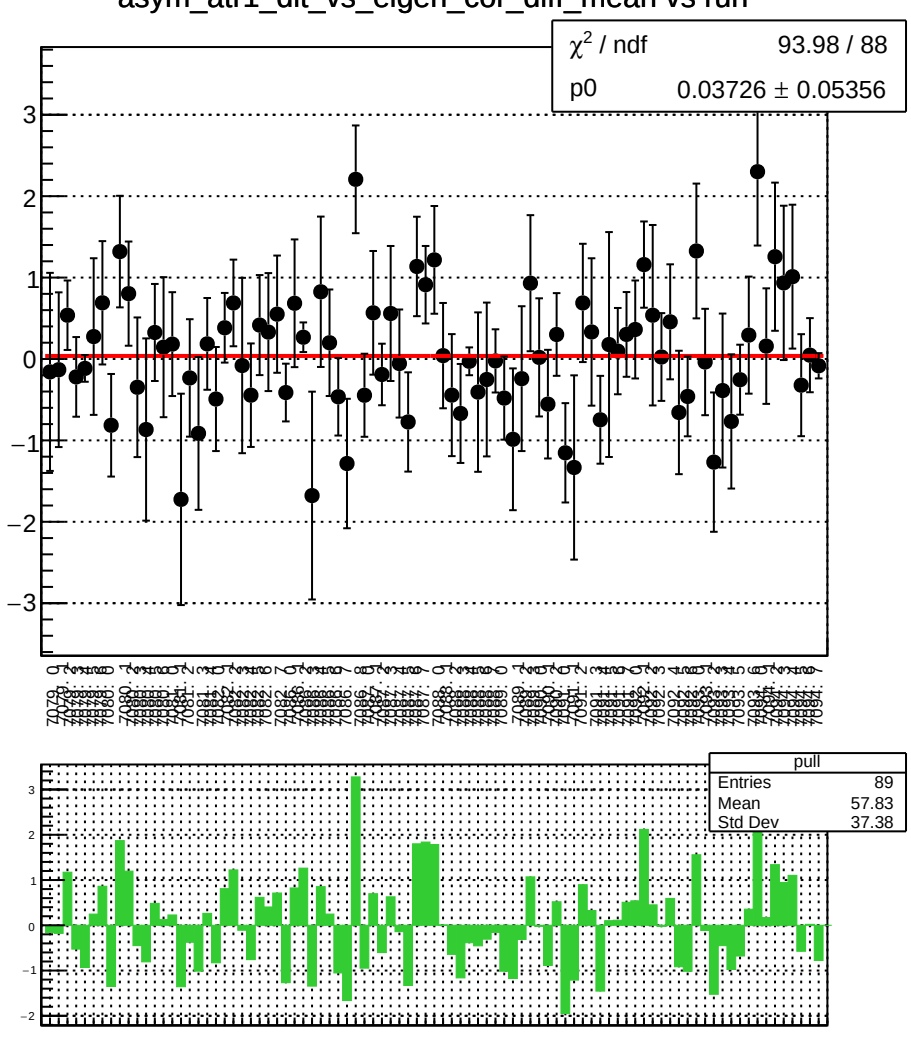

asym_atr1_rms vs run
χ^2 / ndf 268.1 / 88
p0 2860 ± 2.203
3000
2950
2900
2850
2800
2750

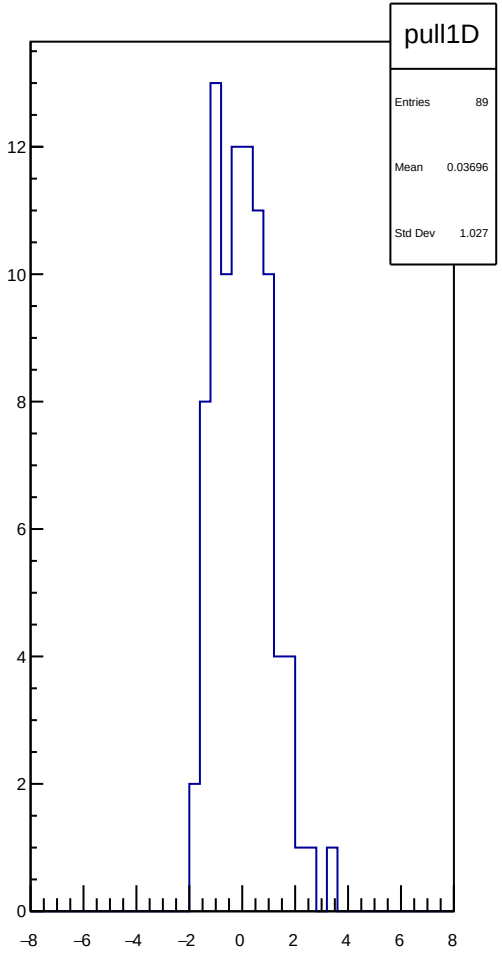

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 92.73 / 88
p0 −2.212e−14 ± 3.086e−14
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean −18.44
Std Dev 0
pull1D
Entries 89
Mean −0.06889
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

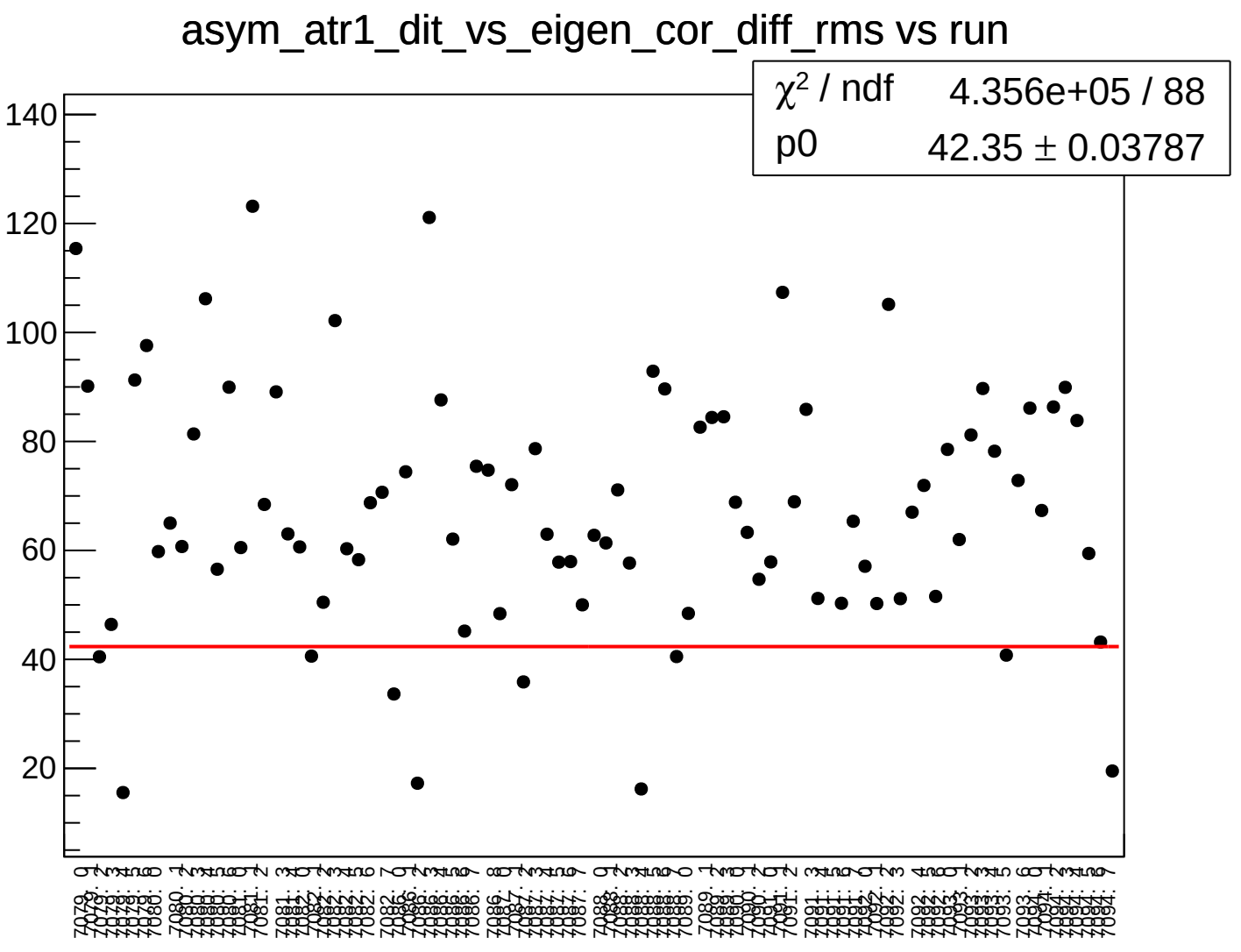

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.673e+05 / 88
p0 1.85e−11 ± 2.182e−14
2.5
2
1.5
1
0.5
0

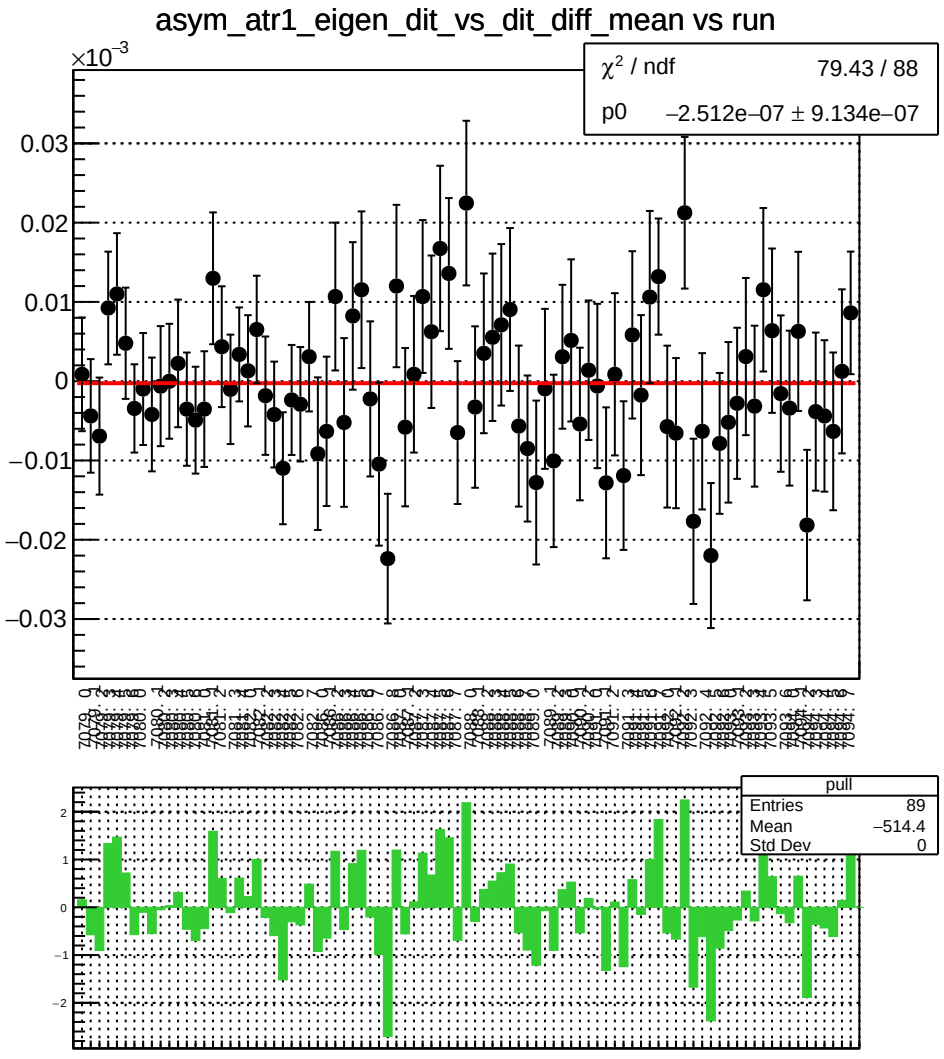

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 93.98 / 88
p0 0.03726 ± 0.05356
pull
Entries 89
Mean 57.83
Std Dev 37.38
pull1D
Entries 89
Mean 0.03696
Std Dev 1.027

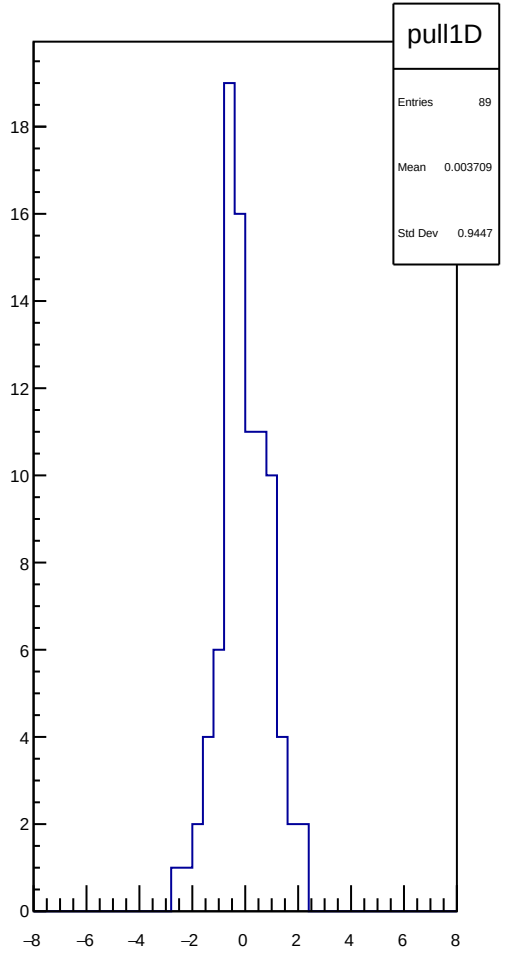

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 4.356e+05 / 88
p0 42.35 ± 0.03787
140
120
100
80
60
40
20

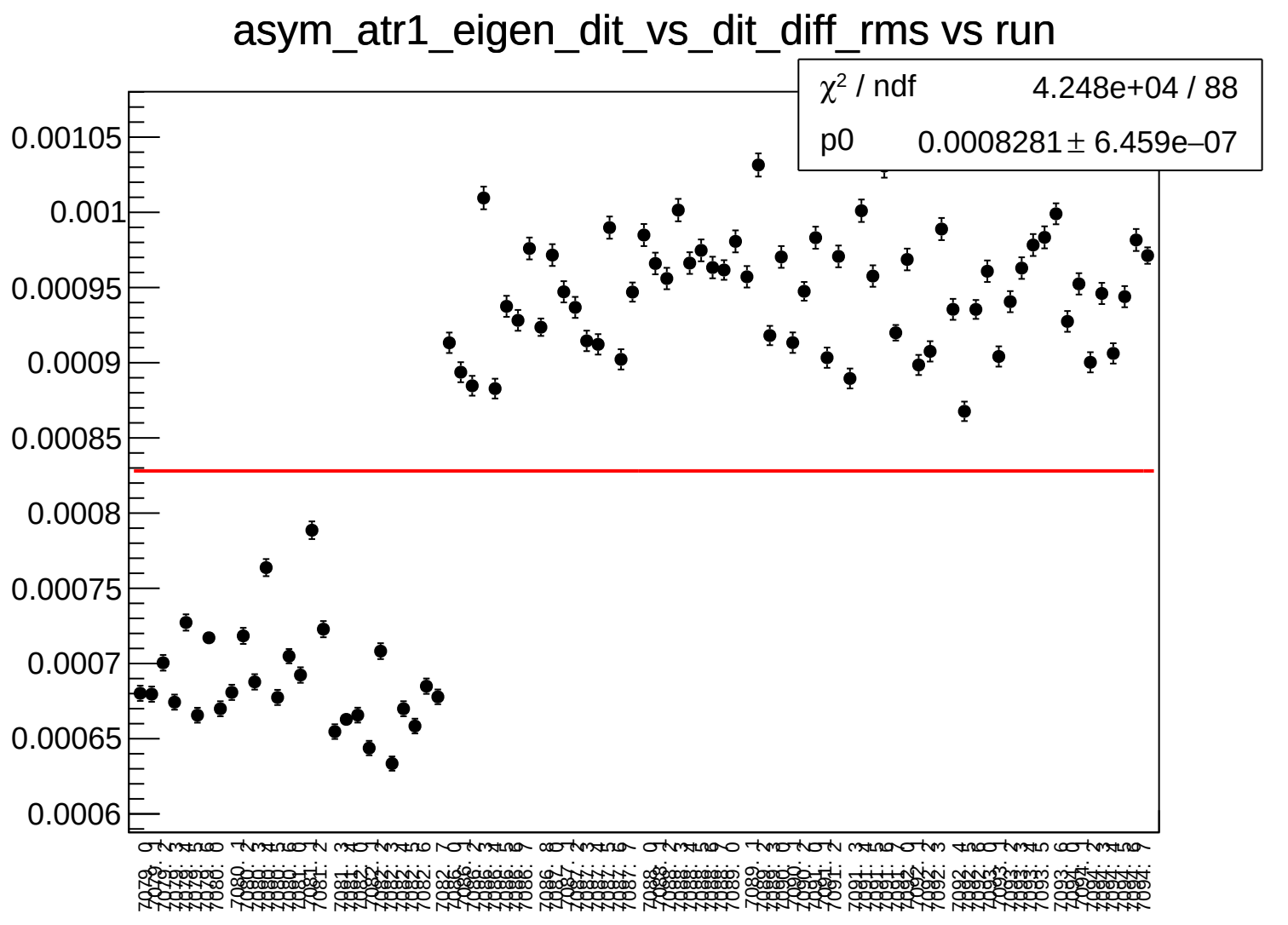

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.98 / 88
p0 0.03726 ± 0.05356
pull
Entries 89
Mean 57.83
Std Dev 37.38

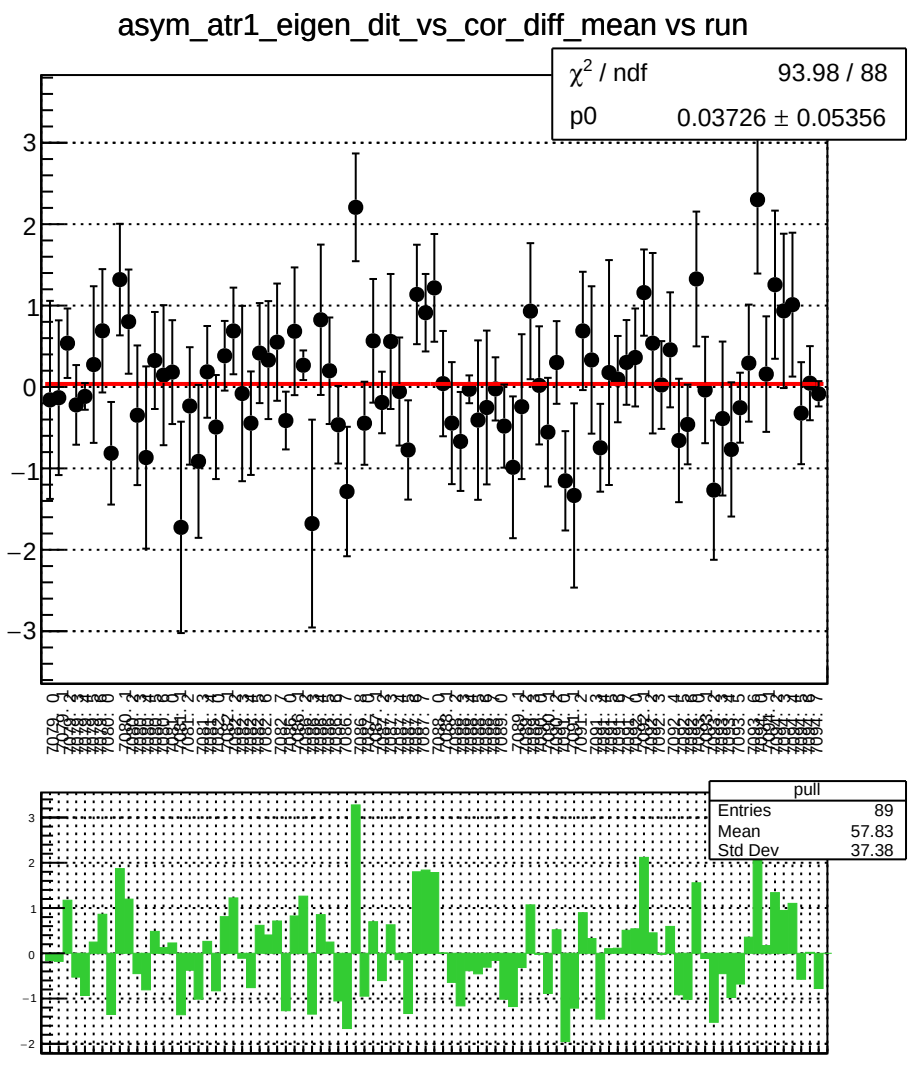

pull1D
Entries 89
Mean 0.03696
Std Dev 1.027

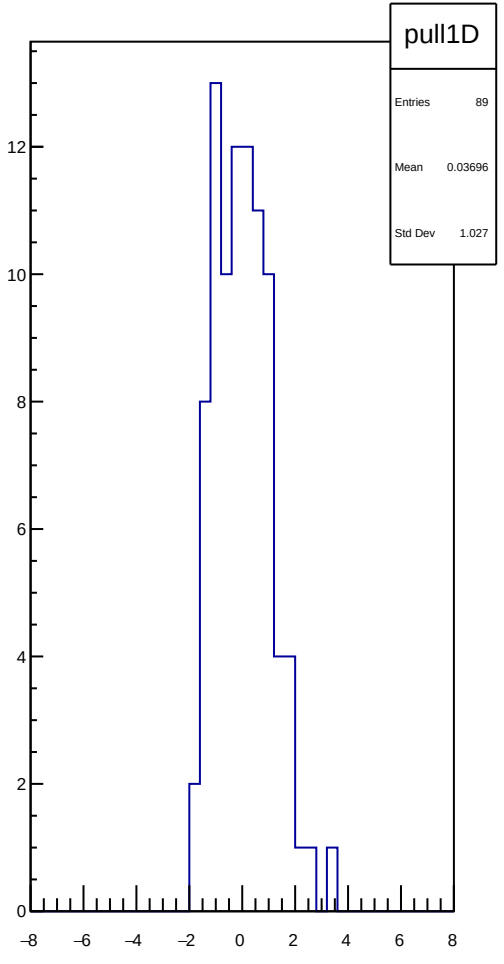

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.356e+05 / 88
p0 42.35 ± 0.03787
140
120
100
80
60
40
20

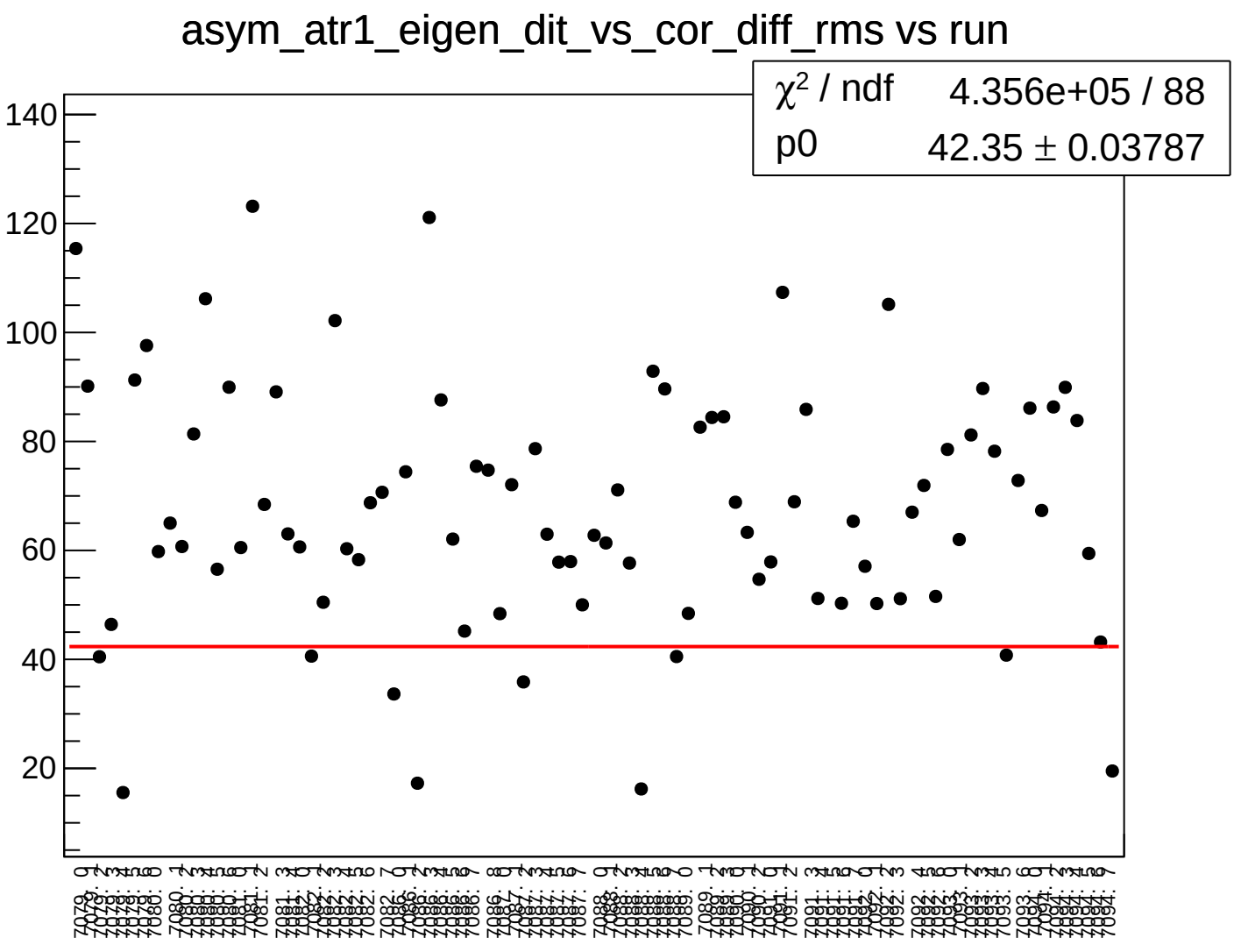

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 79.43 / 88
p0 −2.512e−07 ± 9.134e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean −514.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.003709
Std Dev 0.9447
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

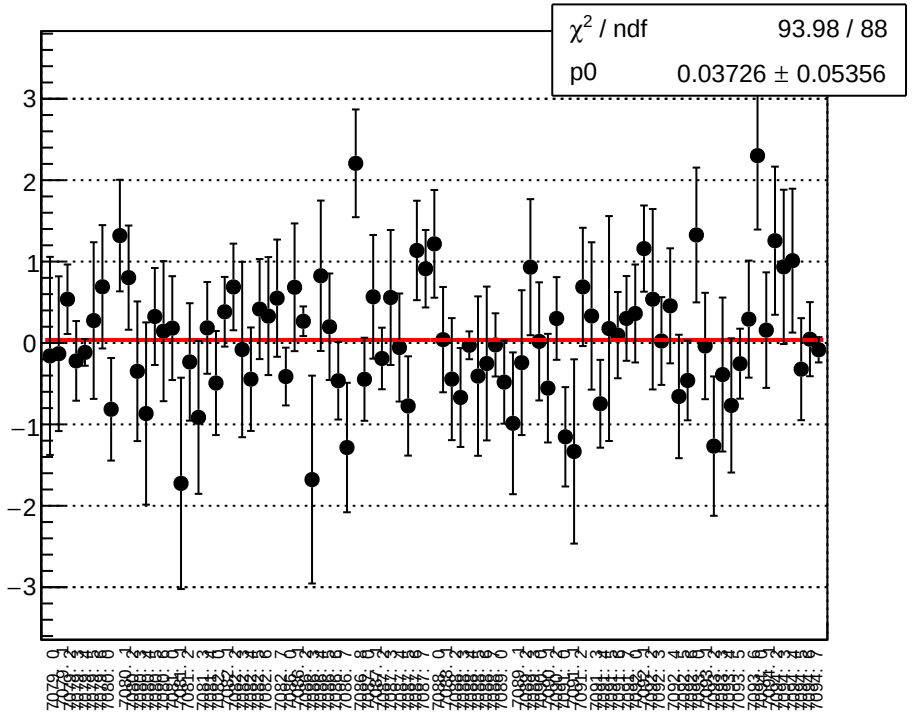

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.248e+04 / 88
p0 0.0008281 ± 6.459e−07
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075
0.0007
0.00065
0.0006

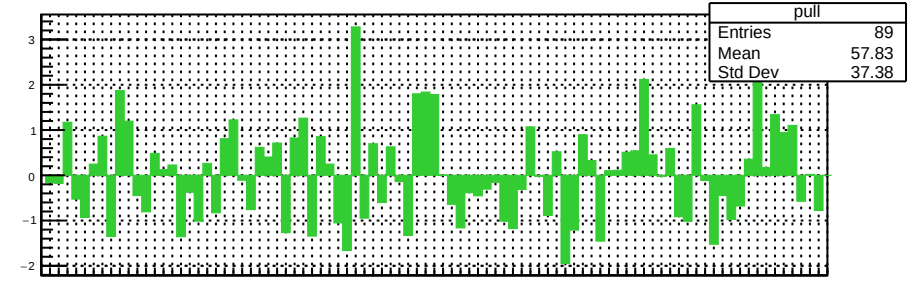

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.98 / 88
p0 0.03726 ± 0.05356
pull
Entries 89
Mean 57.83
Std Dev 37.38

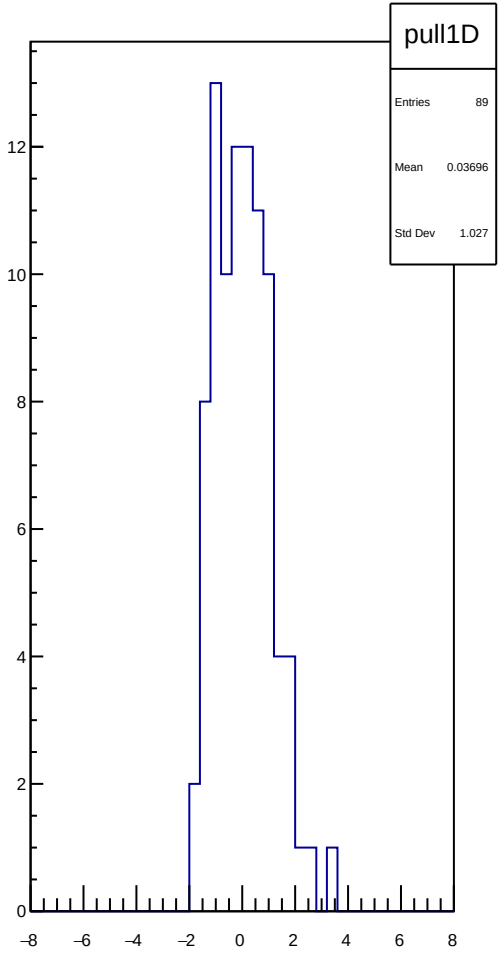

pull1D
Entries 89
Mean 0.03696
Std Dev 1.027

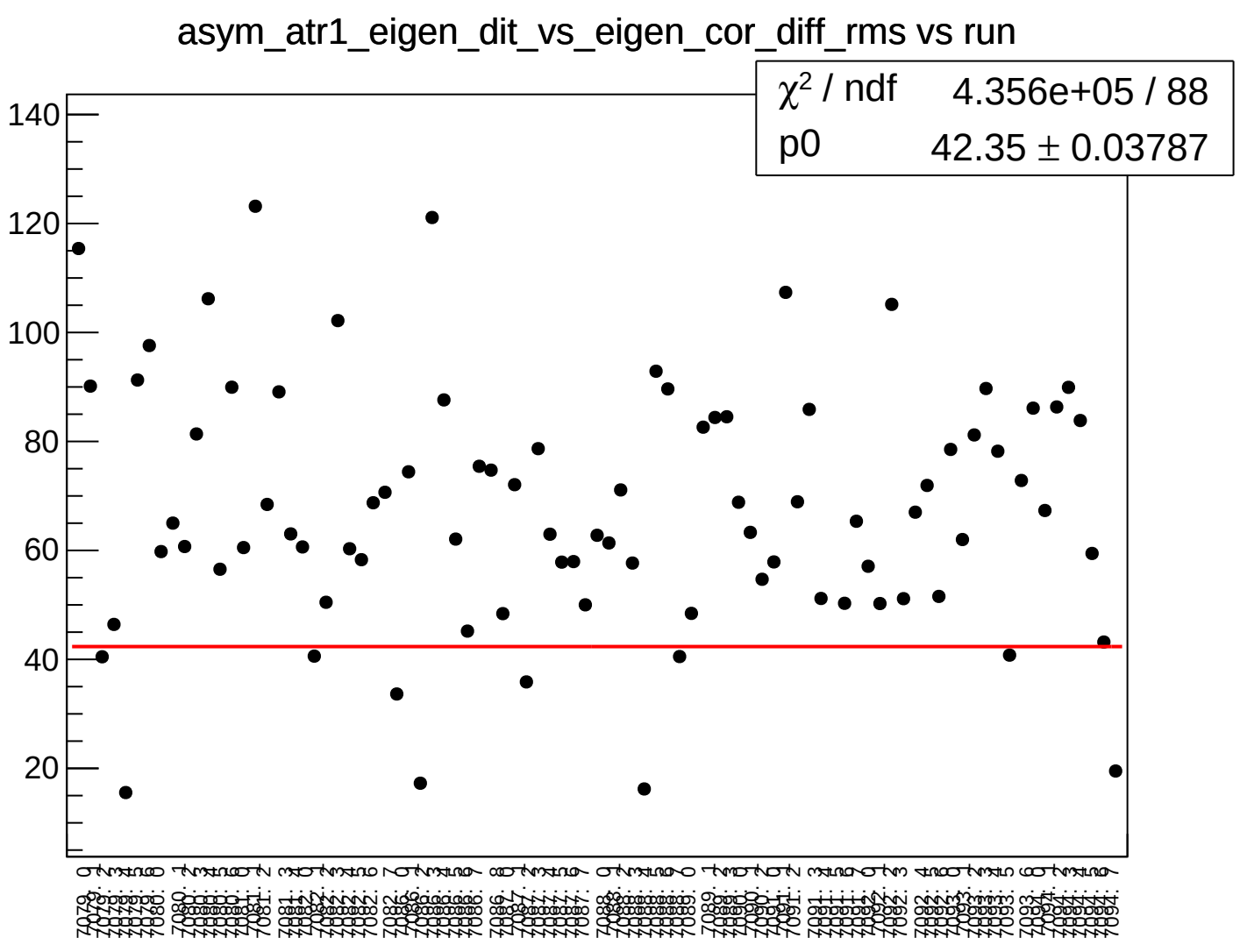

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.356e+05 / 88
p0 42.35 ± 0.03787
140
120
100
80
60
40
20

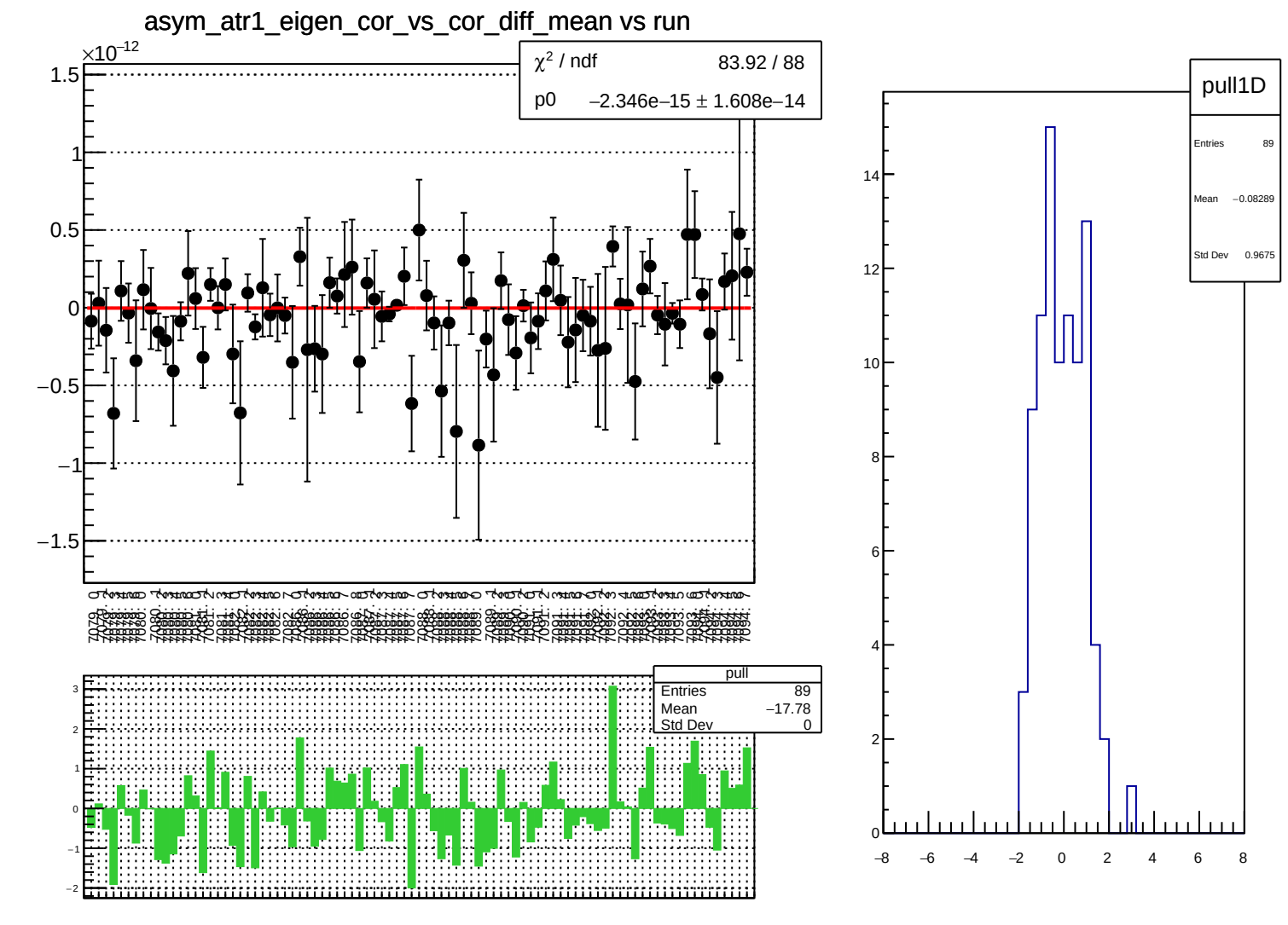
asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run

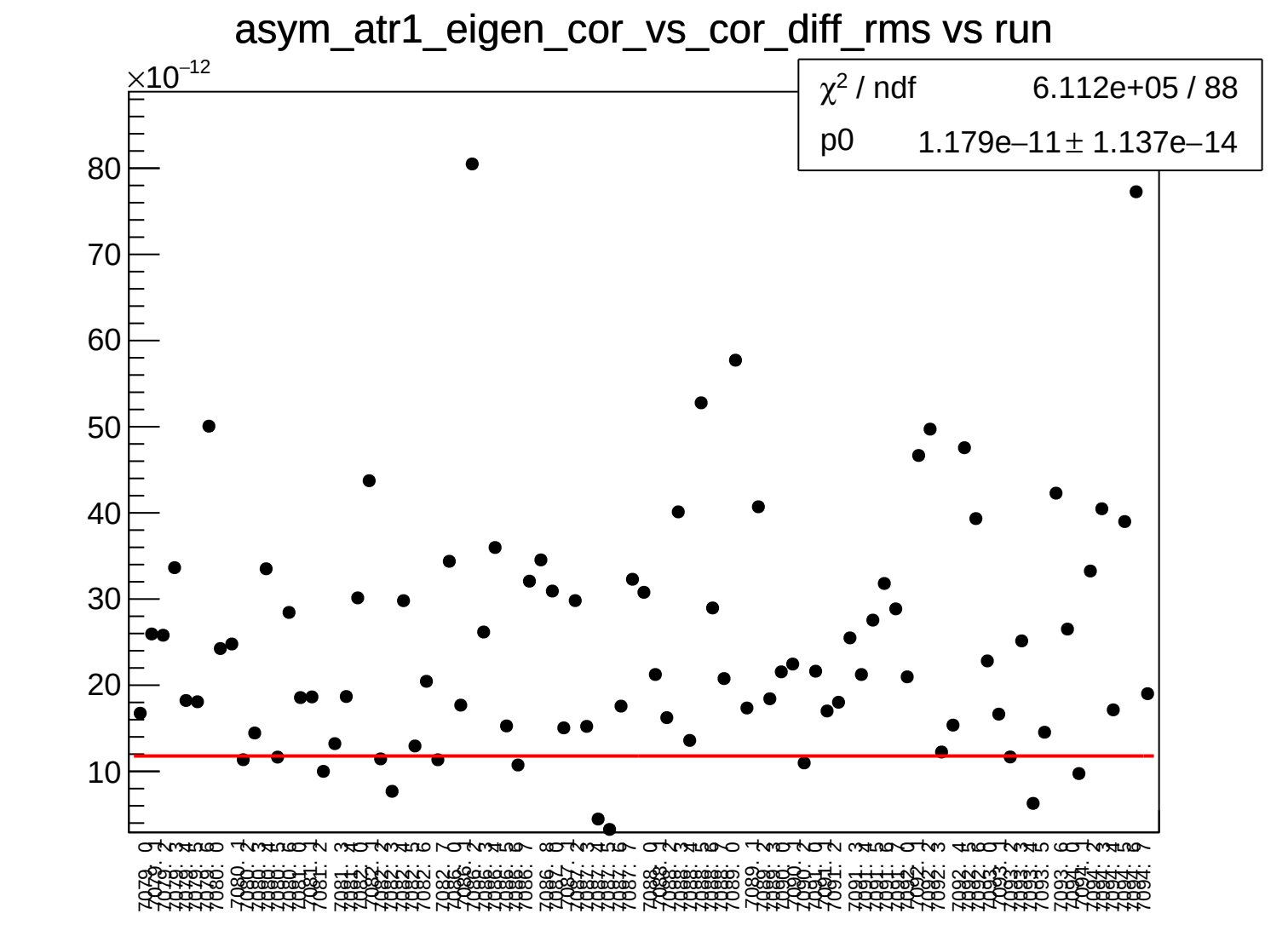


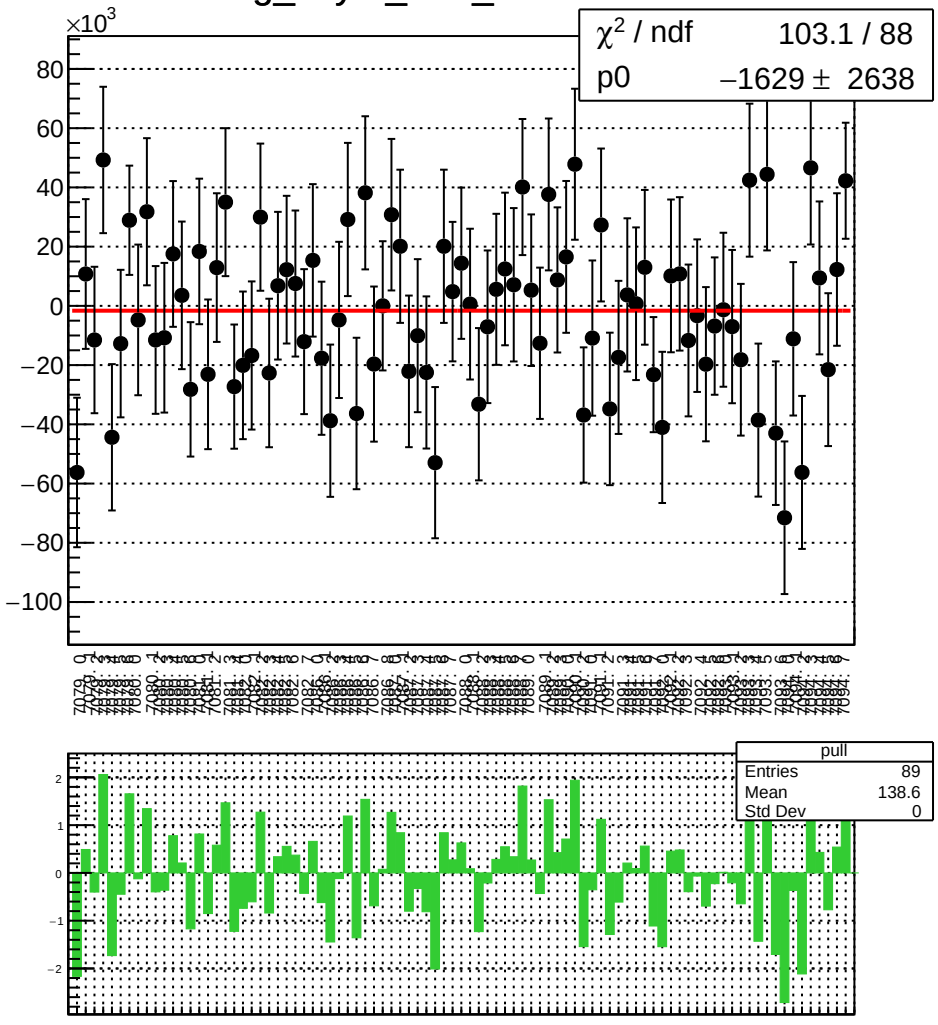


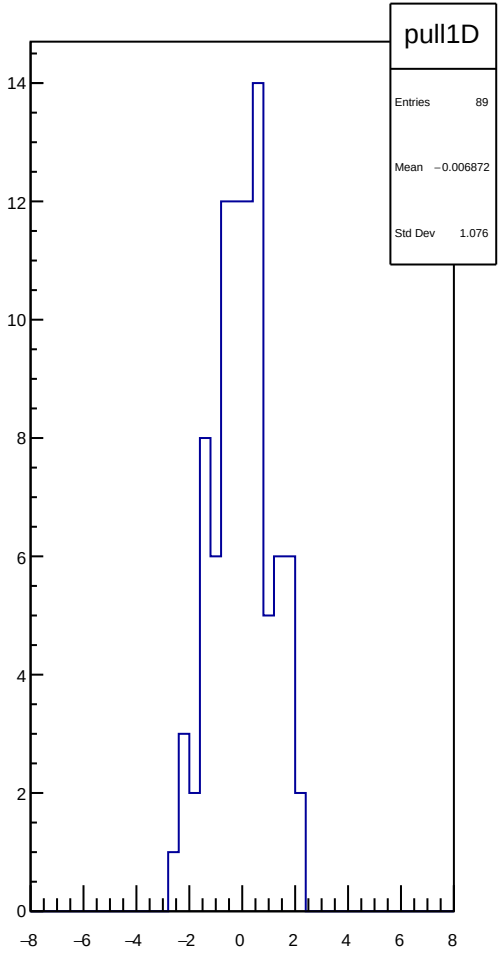


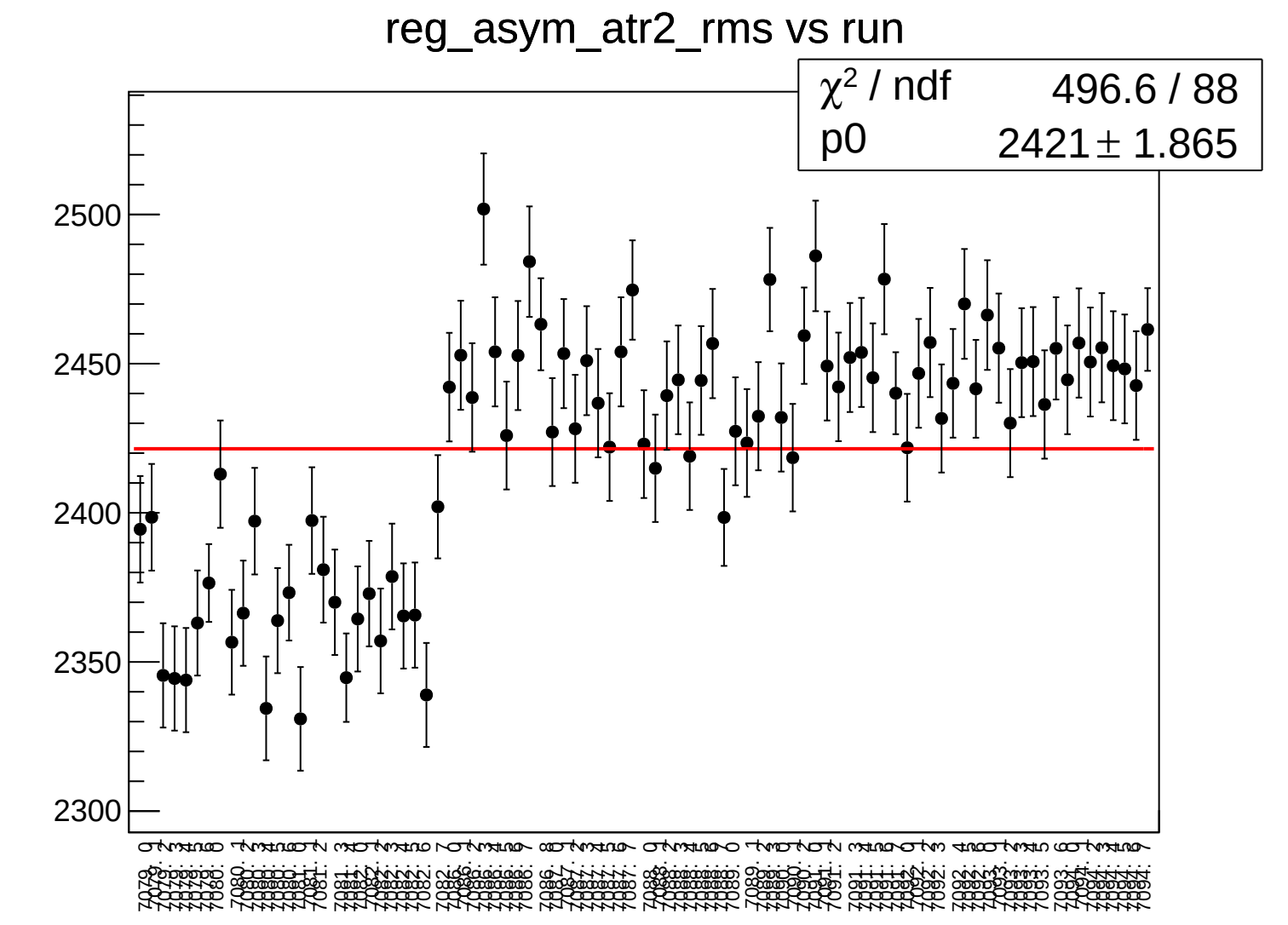

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.356e+05 / 88
p0 42.35 ± 0.03787
140
120
100
80
60
40
20

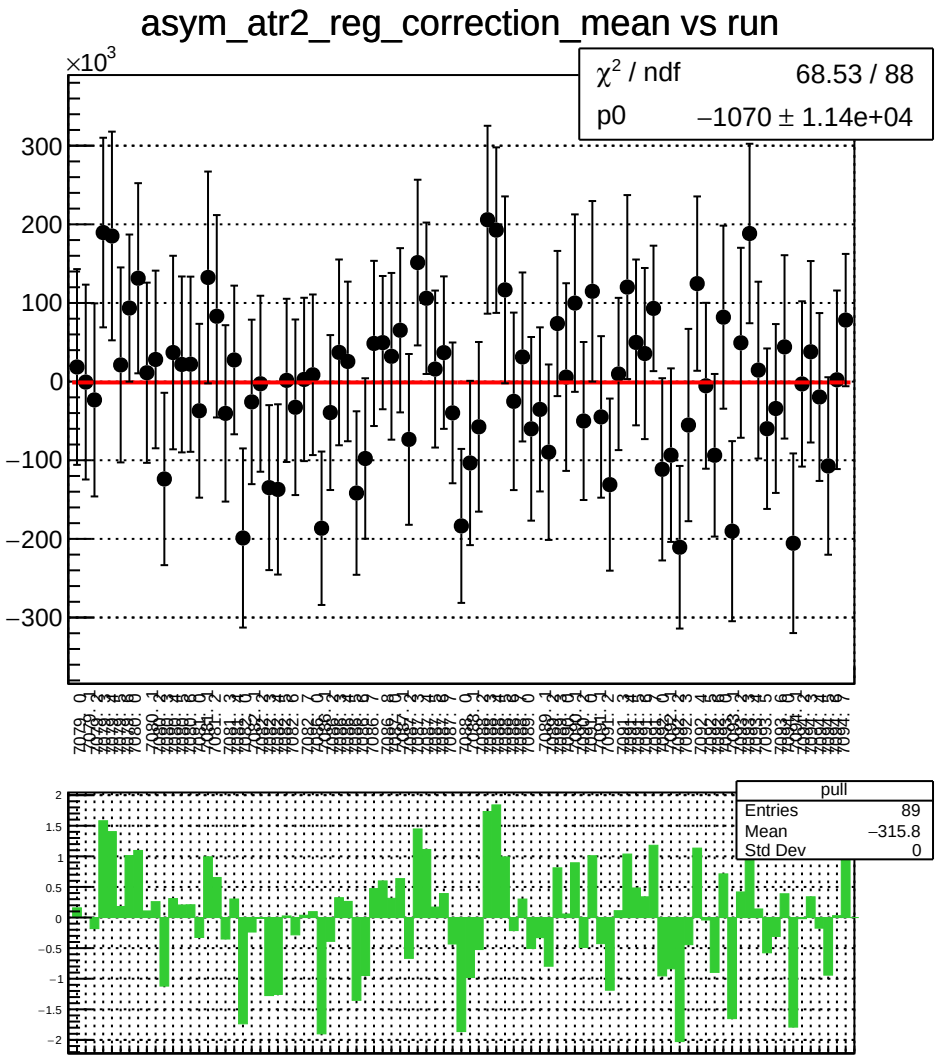

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 83.92 / 88
p0 −2.346e−15 ± 1.608e−14
pull
Entries 89
Mean −17.78
Std Dev 0
pull1D
Entries 89
Mean −0.08289
Std Dev 0.9675

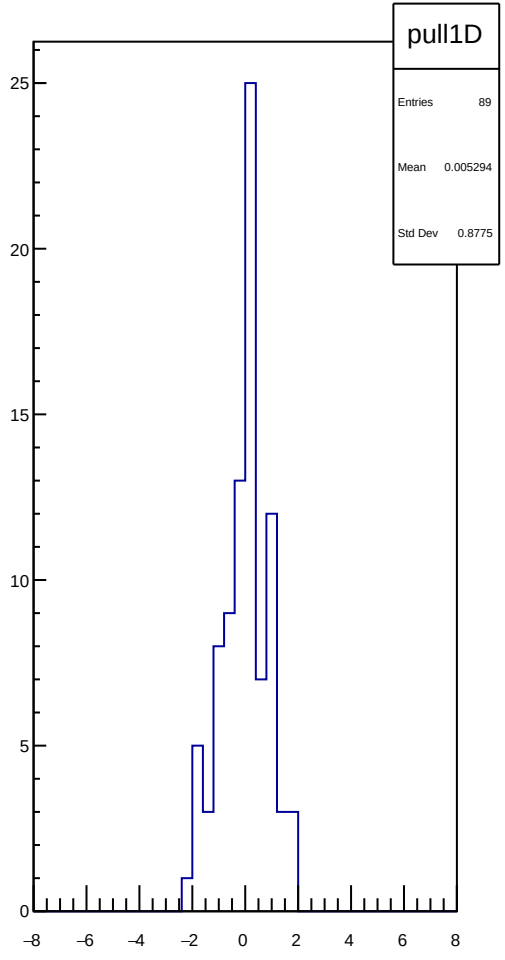

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.112e+05 / 88
p0 1.179e−11 ± 1.137e−14
80
70
60
50
40
30
20
10

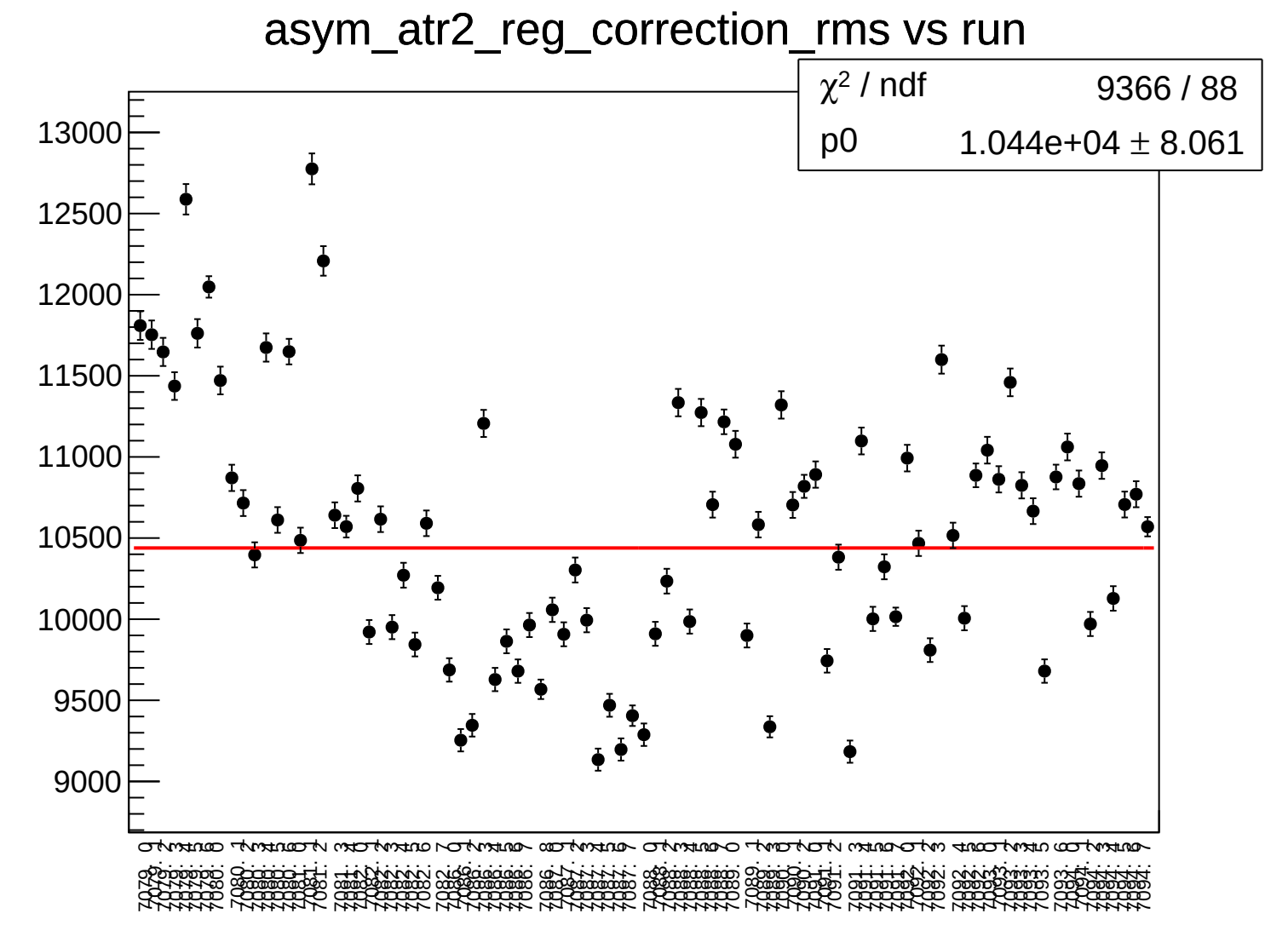

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 103.1 / 88
p0 −1629 ± 2638
pull
Entries 89
Mean 138.6
Std Dev 0

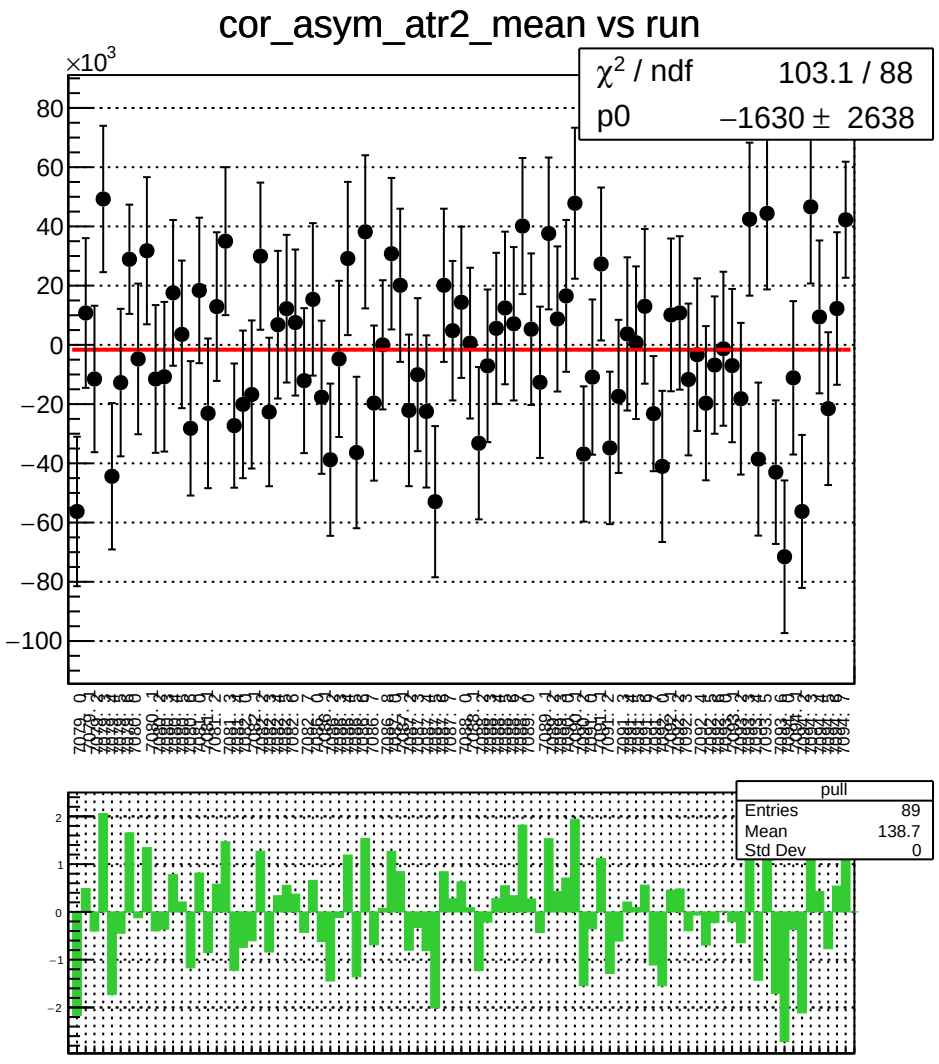

pull1D
Entries 89
Mean −0.006872
Std Dev 1.076

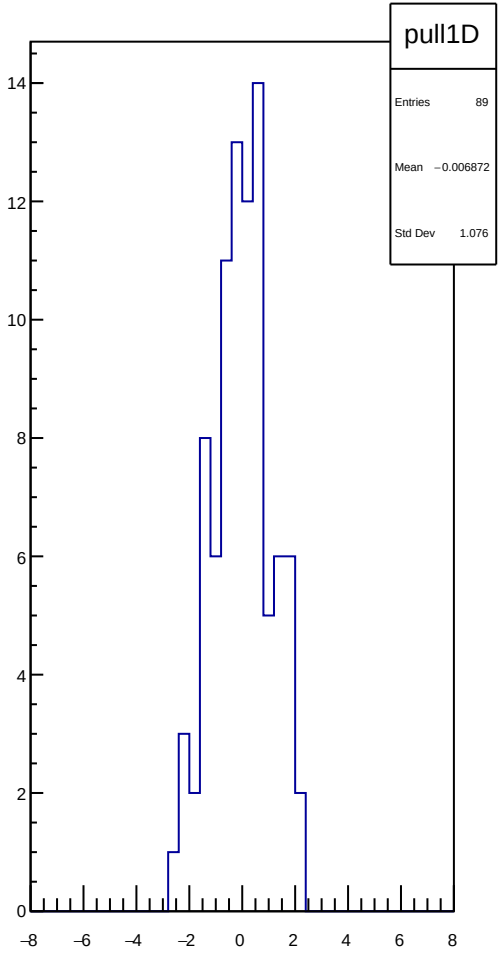

reg_asym_atr2_rms vs run
χ² / ndf 496.6 / 88
p0 2421 ± 1.865
2500
2450
2400
2350
2300

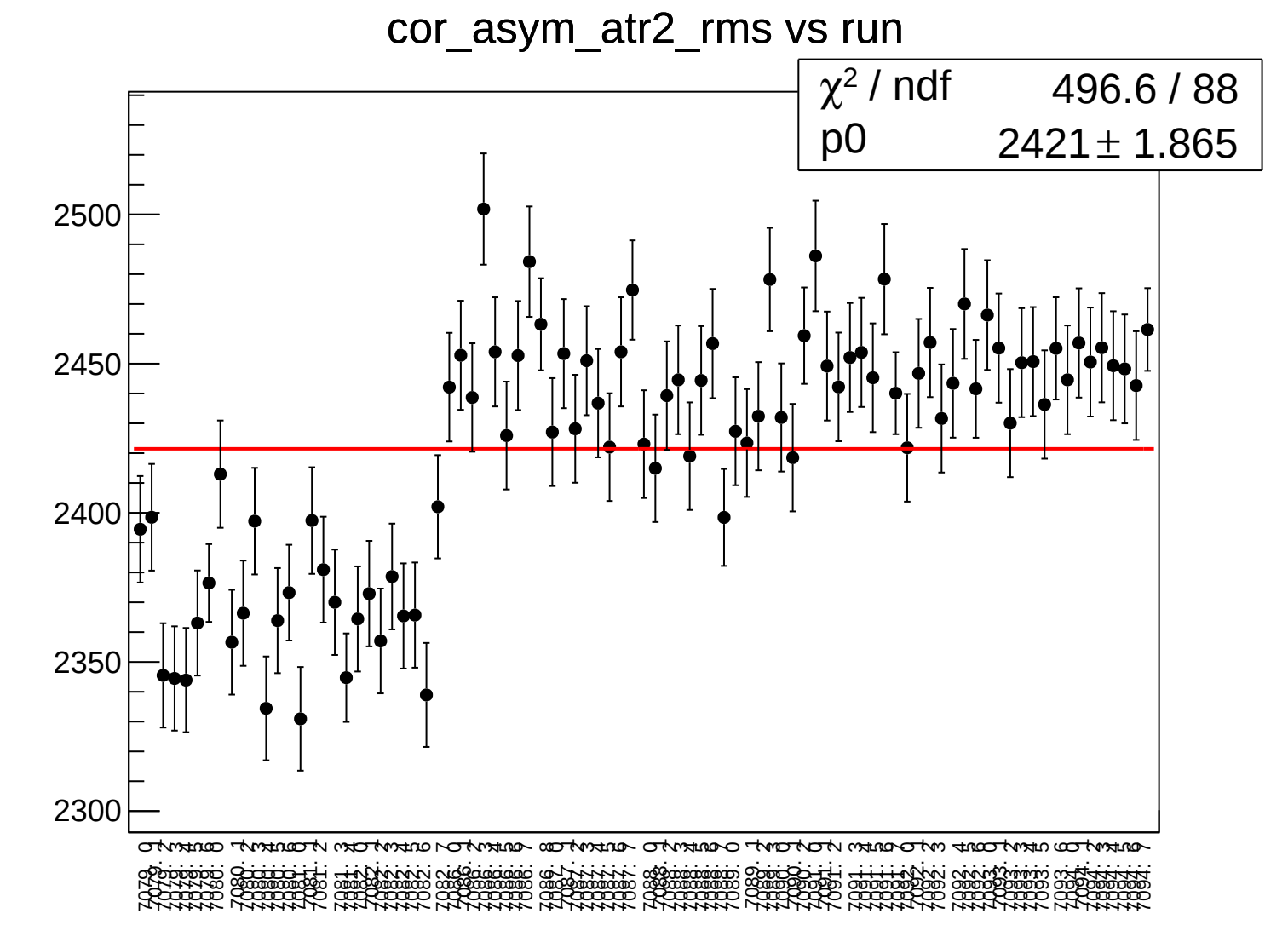

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 68.53 / 88
p0 −1070 ± 1.14e+04
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −315.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

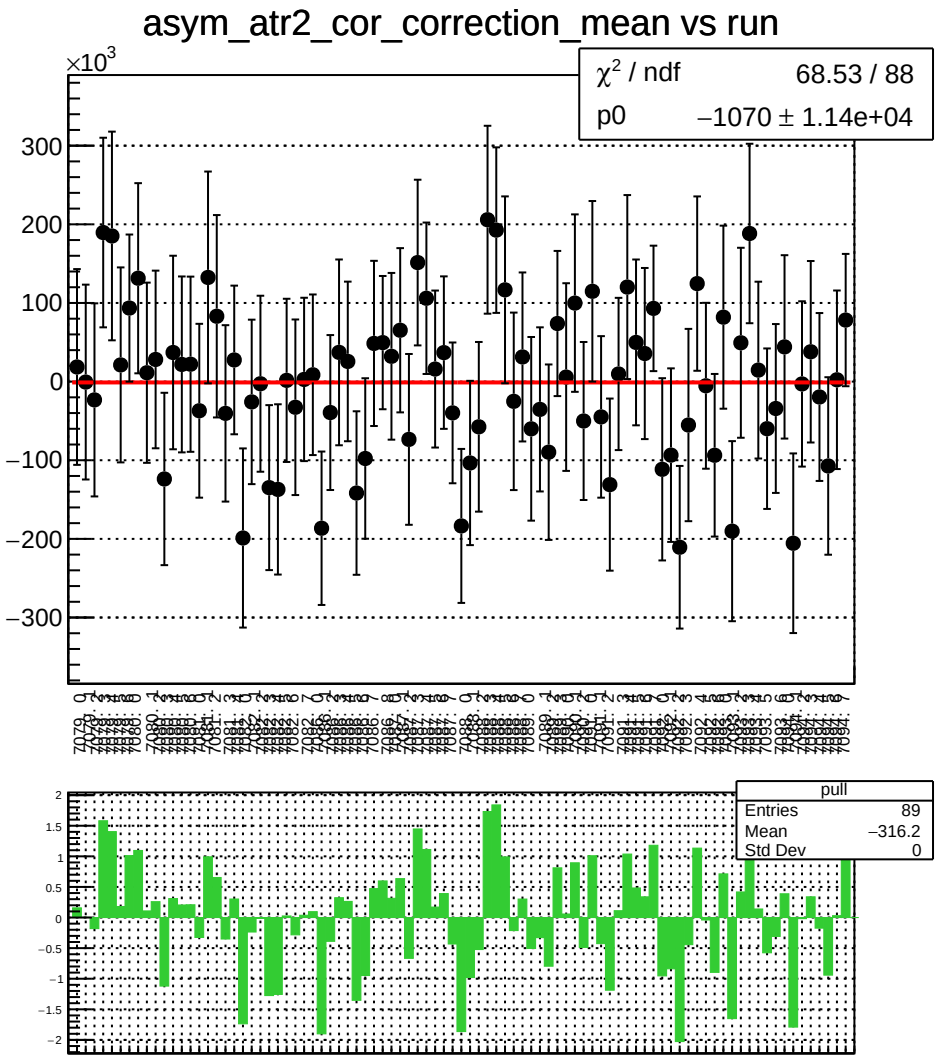

pull1D
Entries 89
Mean 0.005294
Std Dev 0.8775
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

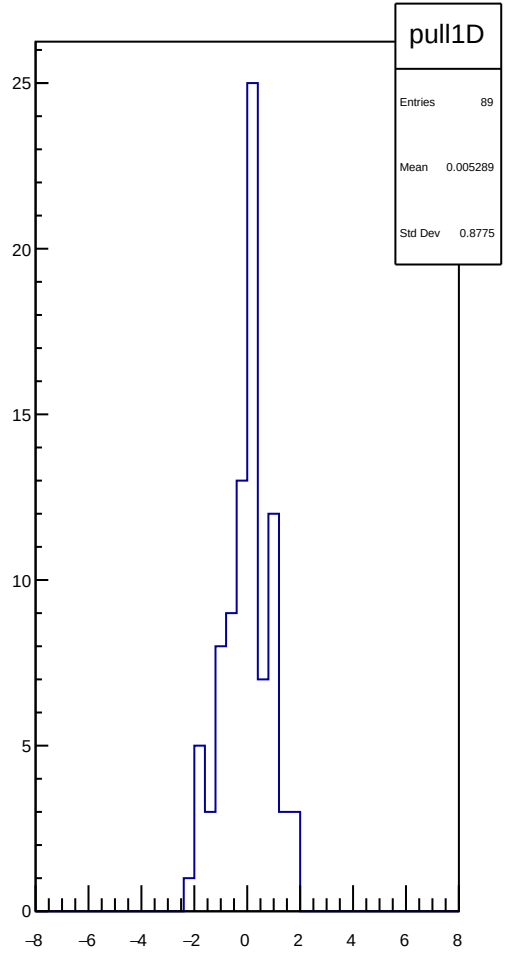

asym_atr2_reg_correction_rms vs run
χ² / ndf 9366 / 88
p0 1.044e+04 ± 8.061
13000
12500
12000
11500
11000
10500
10000
9500
9000

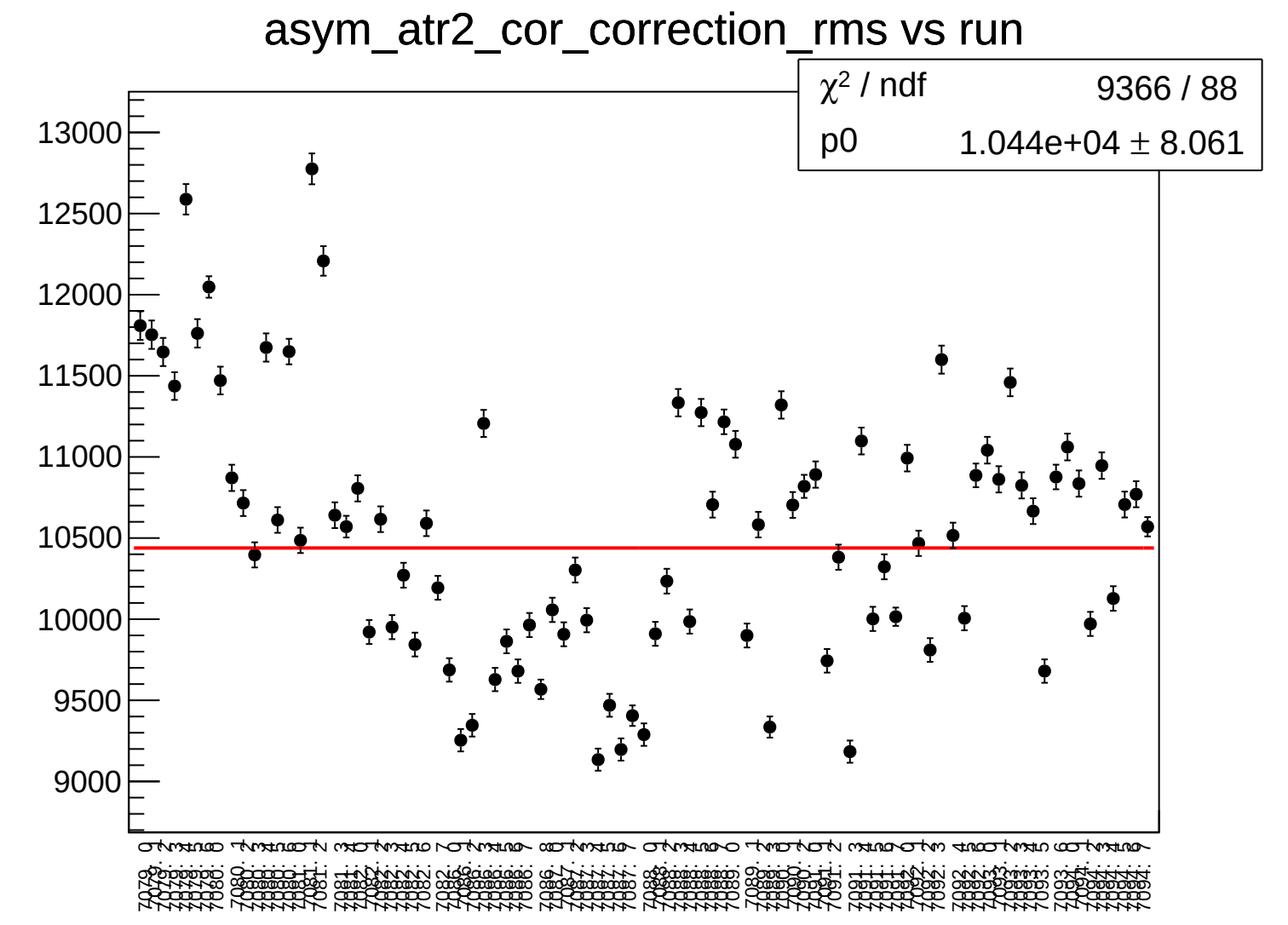

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 103.1 / 88
p0 −1630 ± 2638
pull
Entries 89
Mean 138.7
Std Dev 0

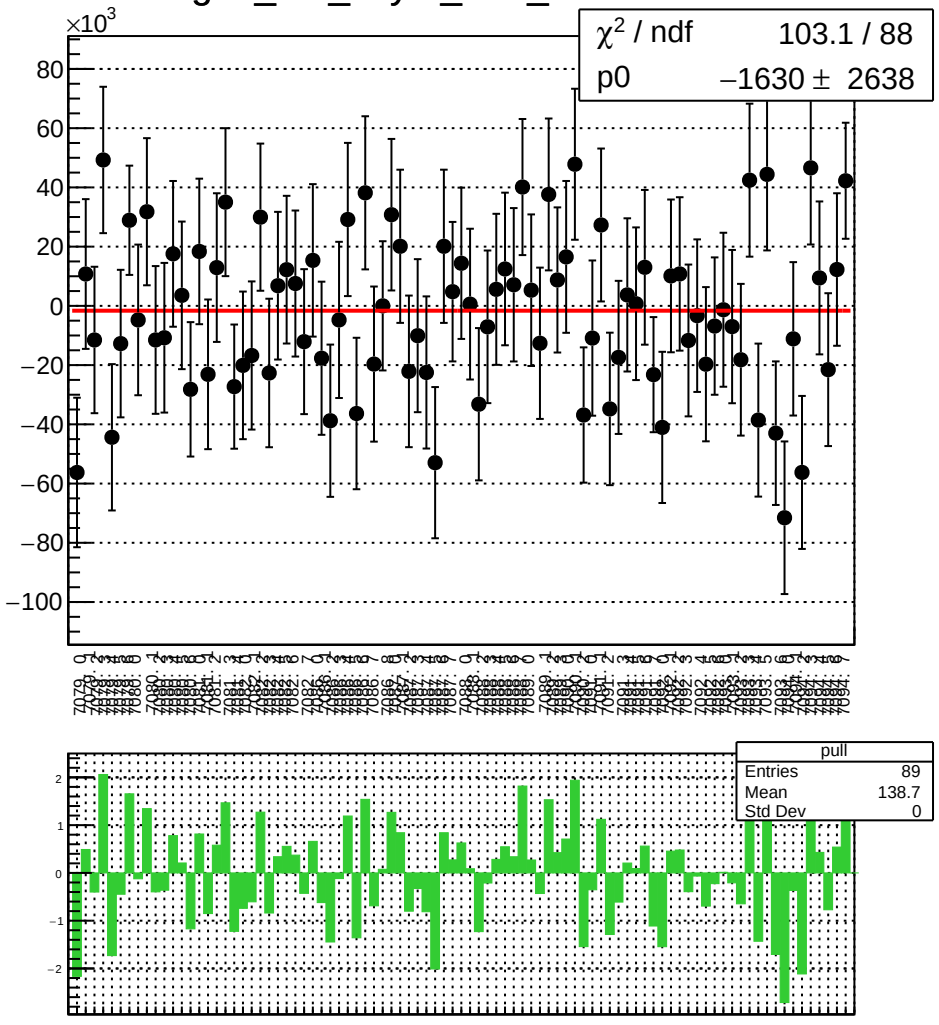

pull1D
Entries 89
Mean −0.006872
Std Dev 1.076

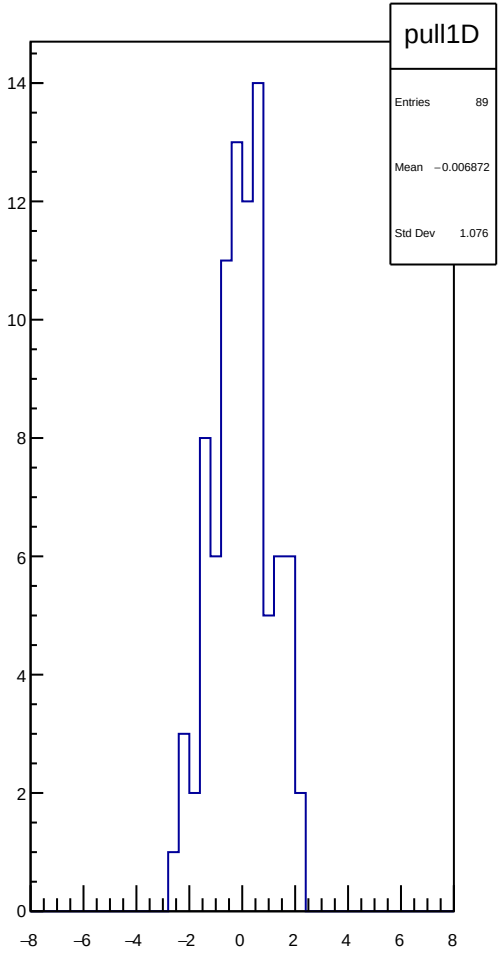

cor_asym_atr2_rms vs run
χ² / ndf 496.6 / 88
p0 2421 ± 1.865
2500
2450
2400
2350
2300

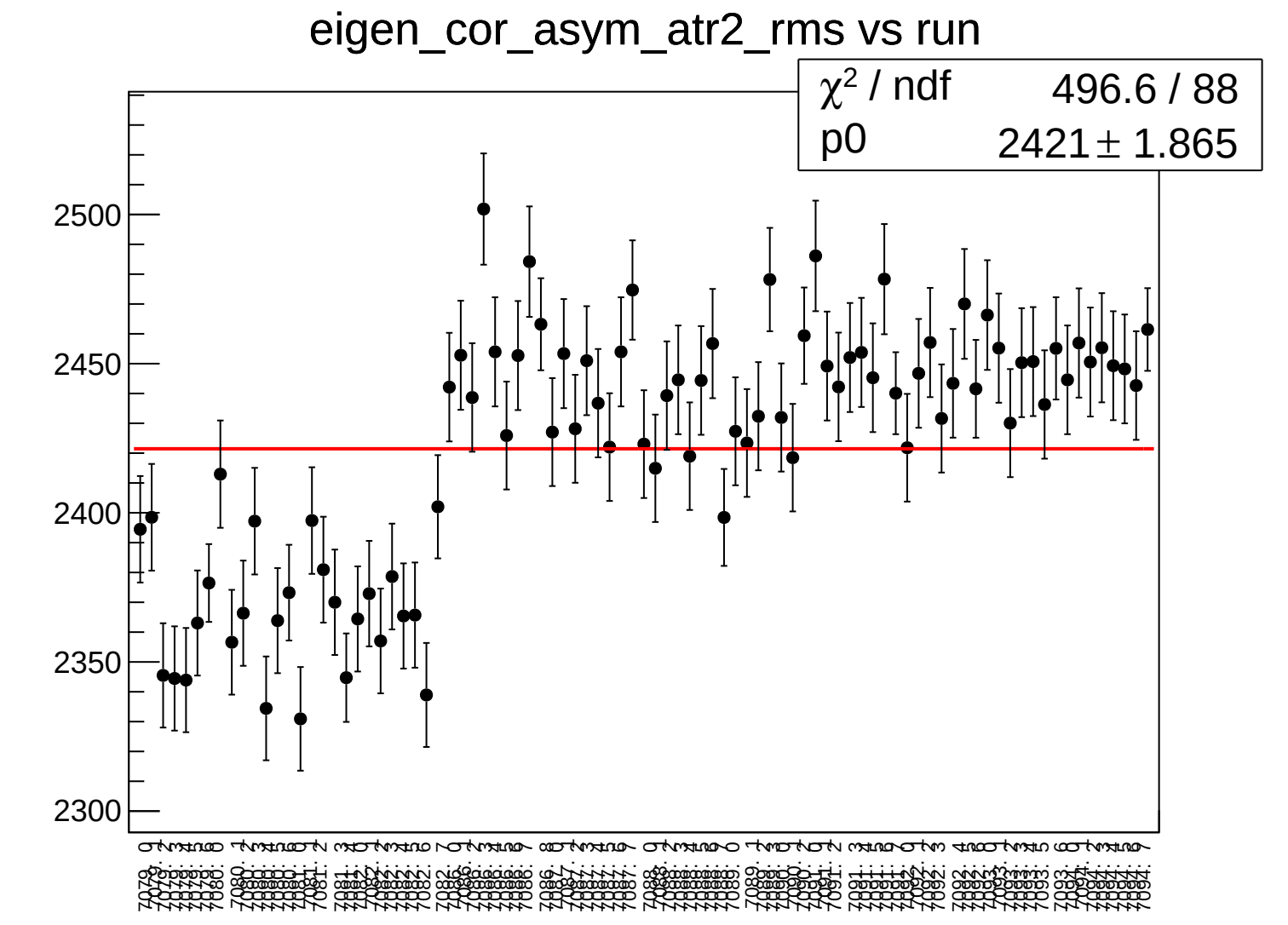

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 68.53 / 88
p0 −1070 ± 1.14e+04
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −316.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

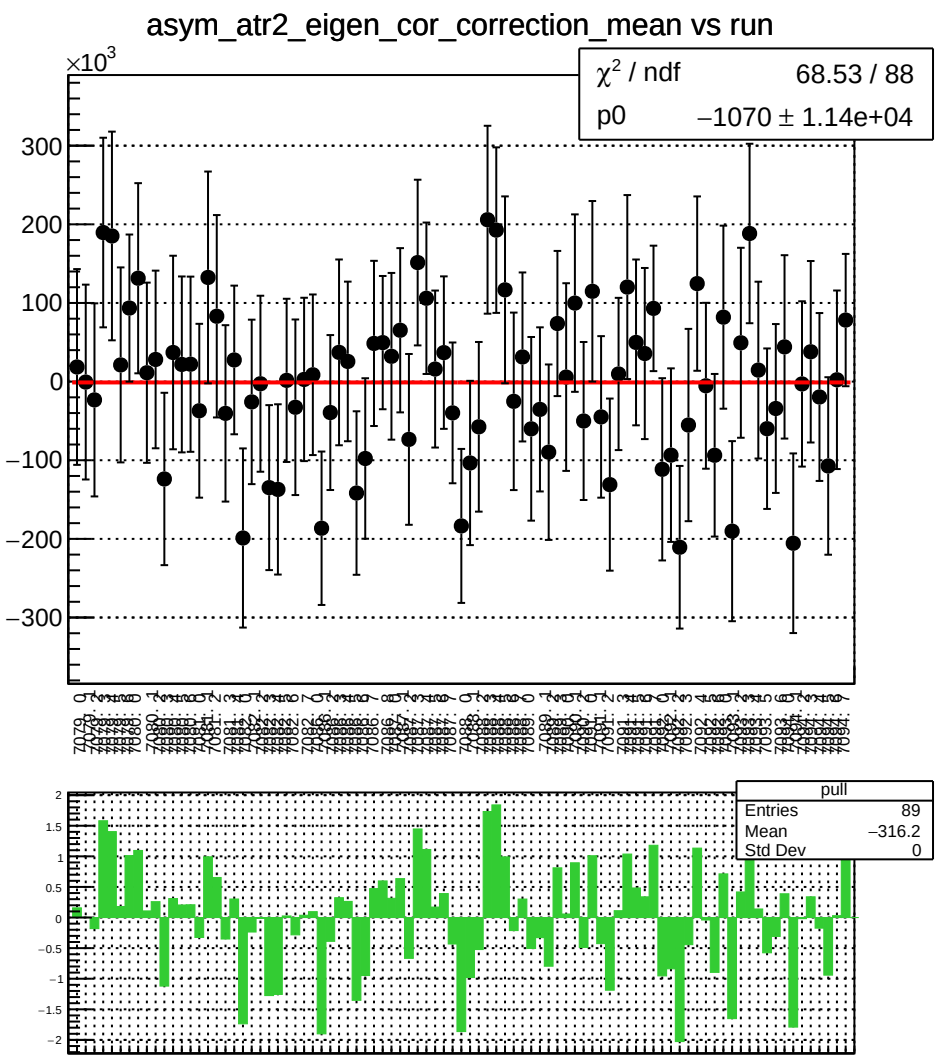

pull1D
Entries 89
Mean 0.005289
Std Dev 0.8775
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

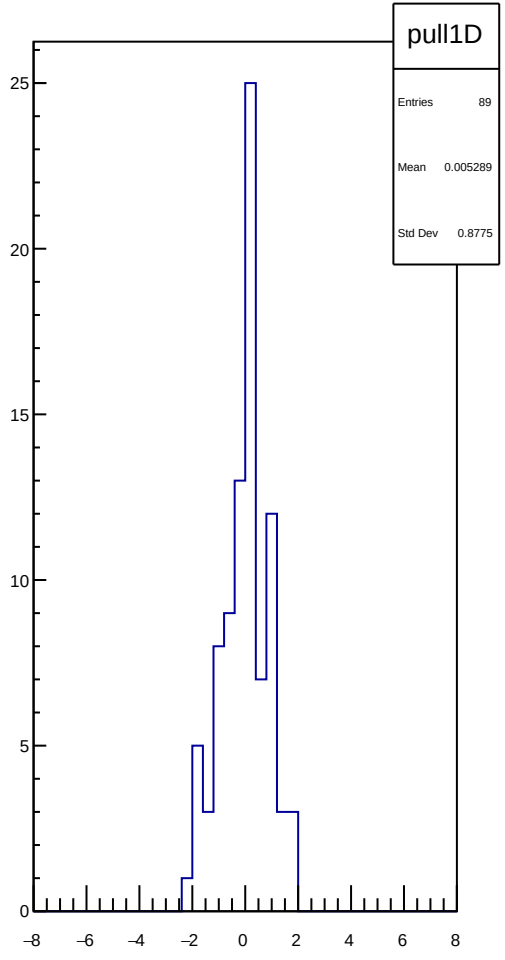

asym_atr2_cor_correction_rms vs run
χ² / ndf 9366 / 88
p0 1.044e+04 ± 8.061
13000
12500
12000
11500
11000
10500
10000
9500
9000

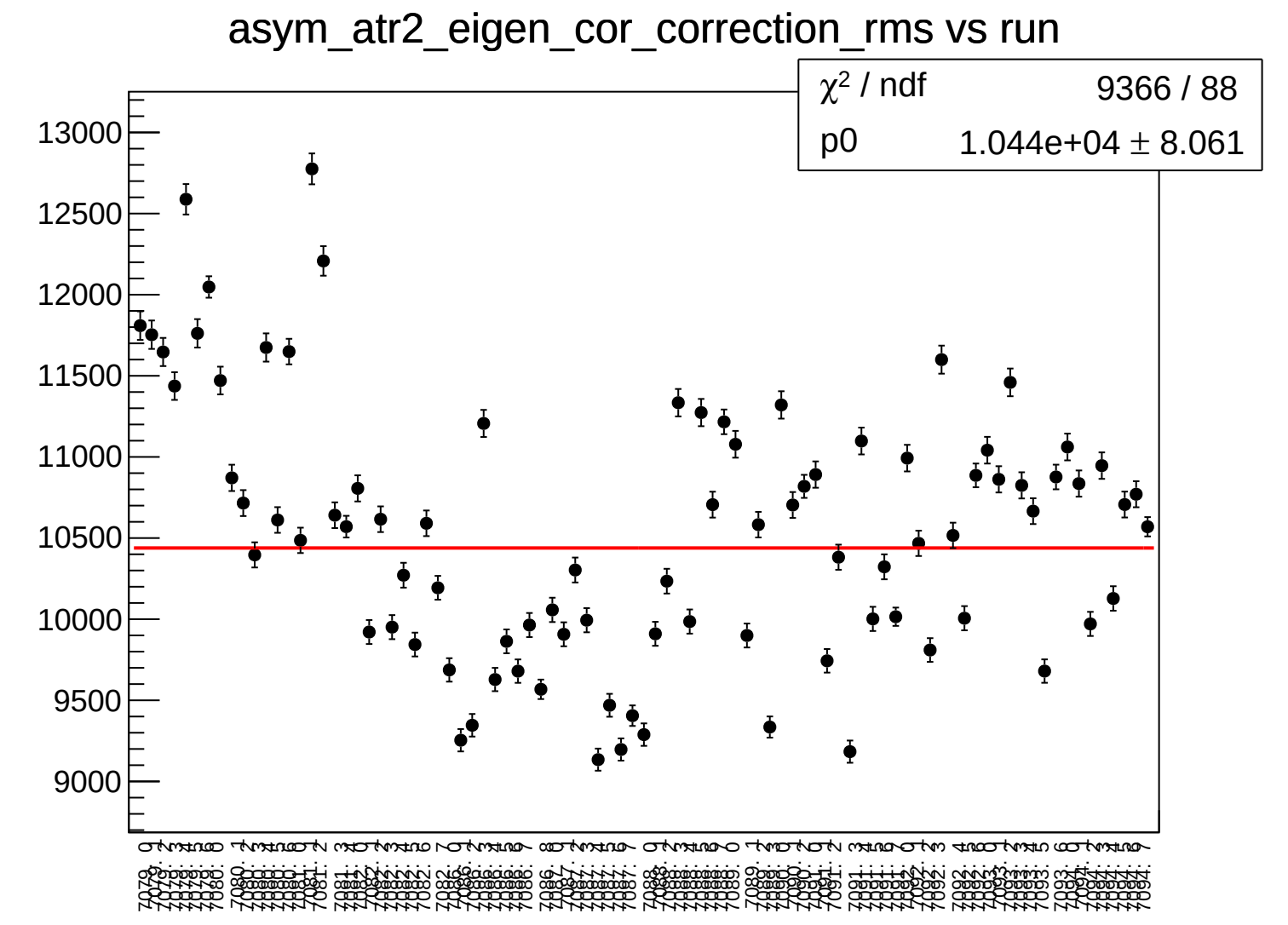

eigen_cor_asym_atr2_mean vs run
χ² / ndf 103.1 / 88
p0 −1630 ± 2638
pull
Entries 89
Mean 138.7
Std Dev 0

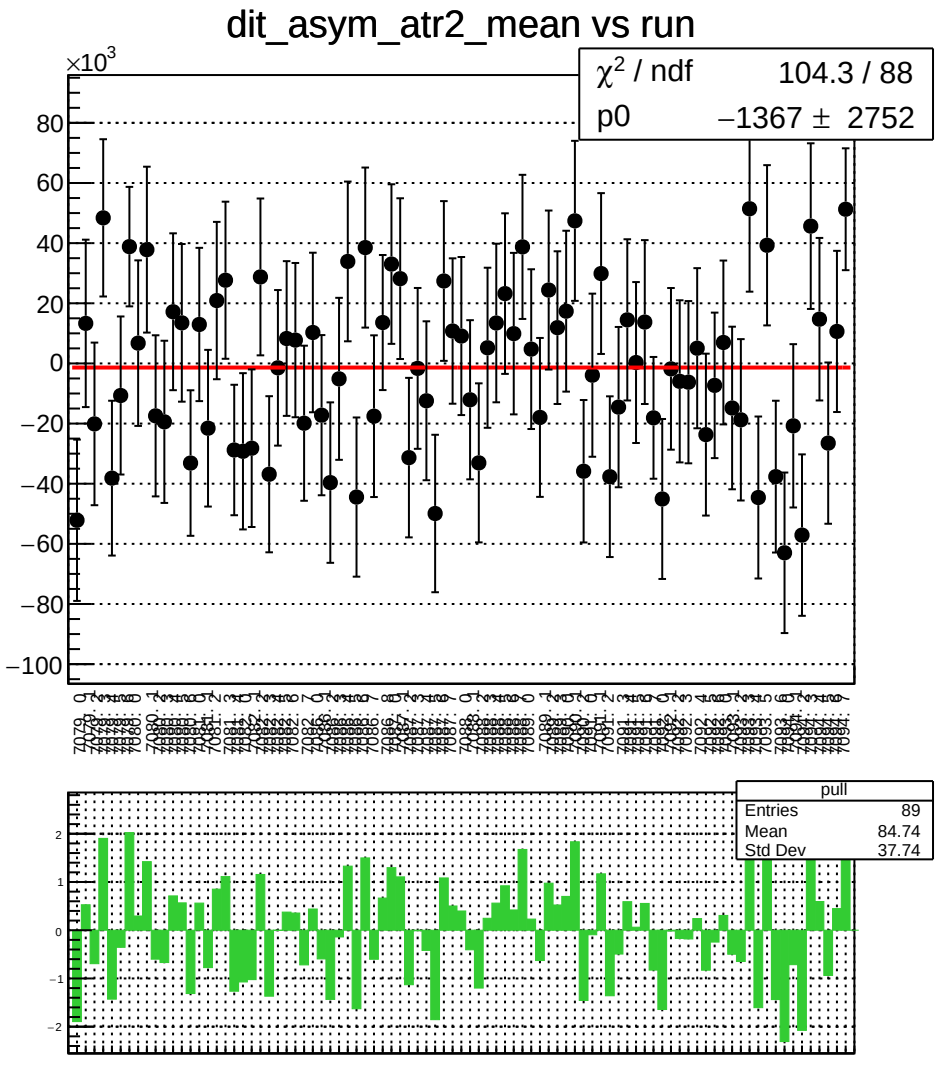

pull1D
Entries 89
Mean −0.006872
Std Dev 1.076

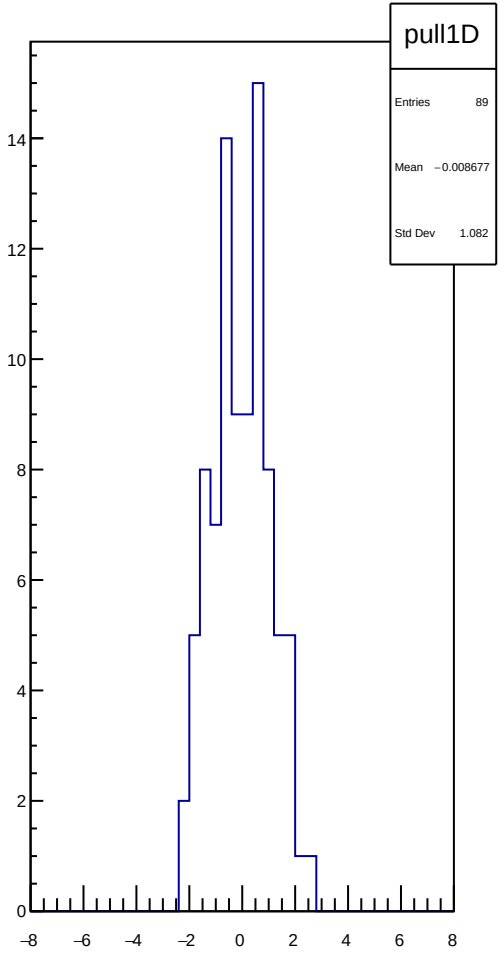

eigen_cor_asym_atr2_rms vs run
χ² / ndf 496.6 / 88
p0 2421 ± 1.865
2500
2450
2400
2350
2300

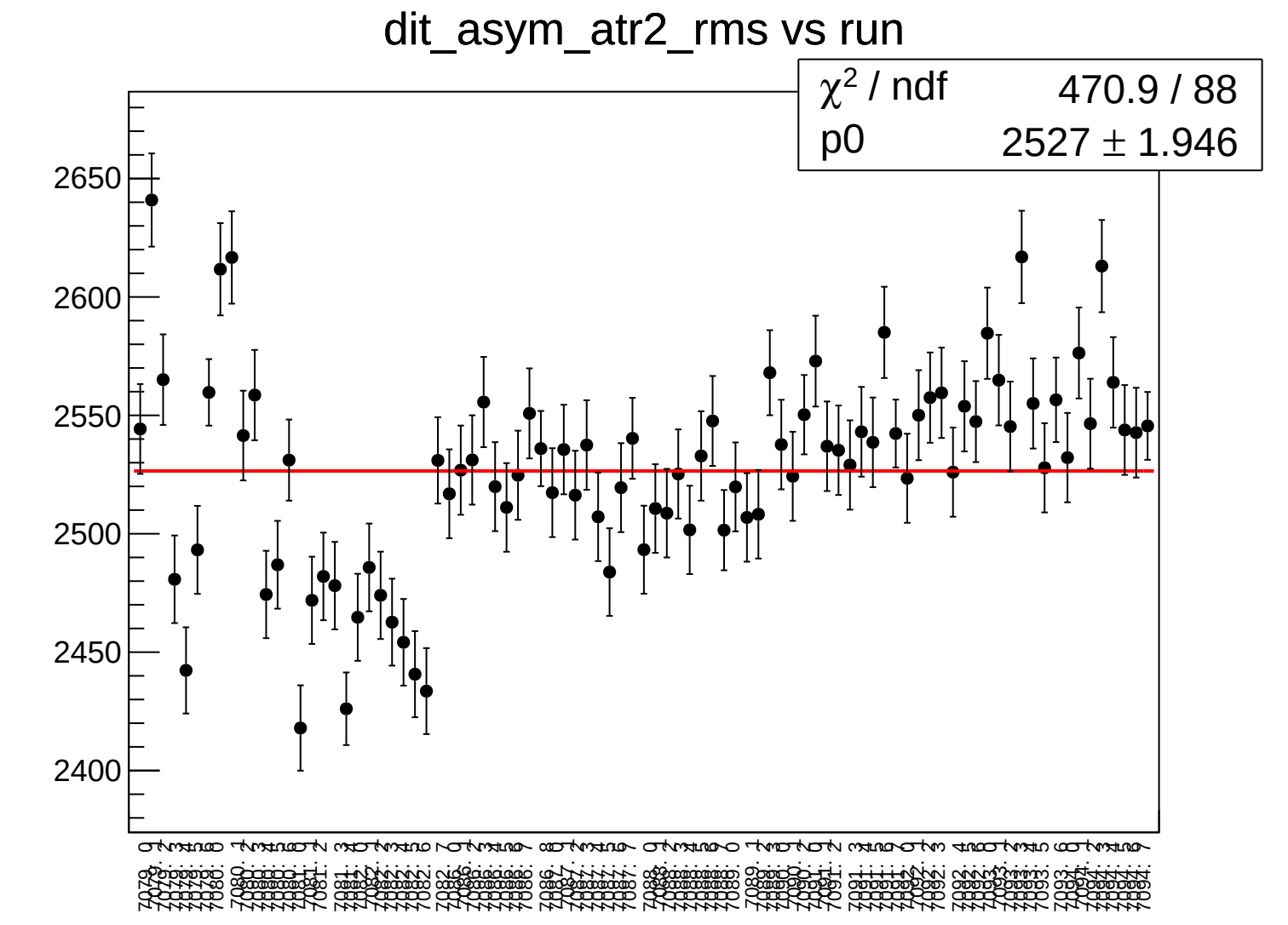

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.53 / 88
p0 −1070 ± 1.14e+04
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −316.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

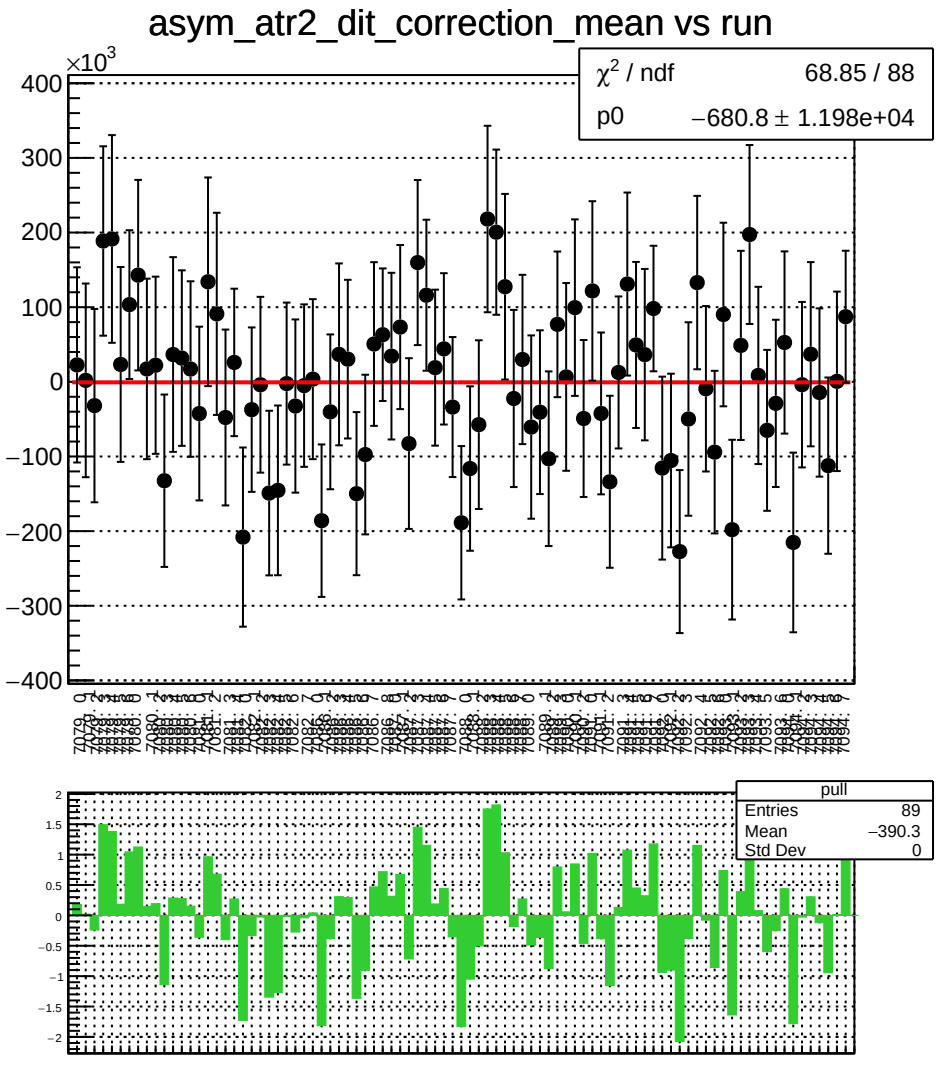

pull1D
Entries 89
Mean 0.005289
Std Dev 0.8775
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

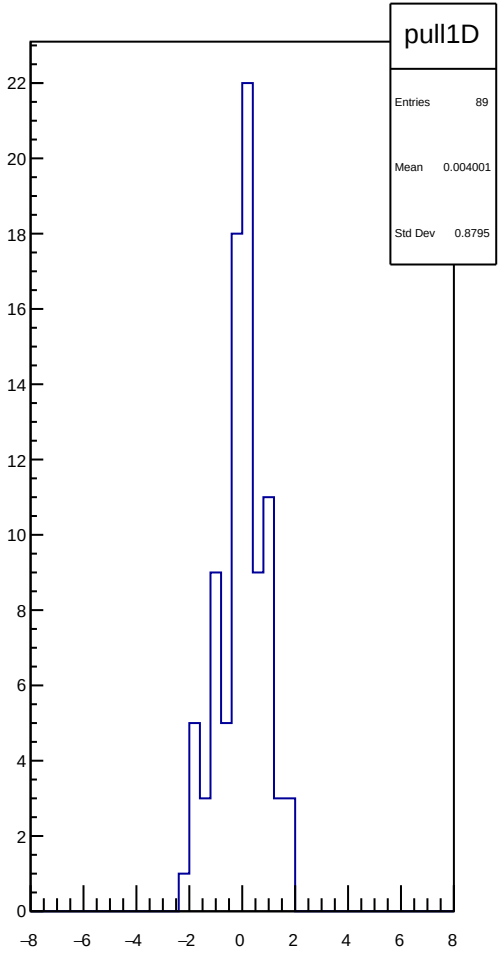

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 9366 / 88
p0 1.044e+04 ± 8.061
13000
12500
12000
11500
11000
10500
10000
9500
9000


dit_asym_atr2_mean vs run
×10^3
χ² / ndf 104.3 / 88
p0 −1367 ± 2752
pull
Entries 89
Mean 84.74
Std Dev 37.74

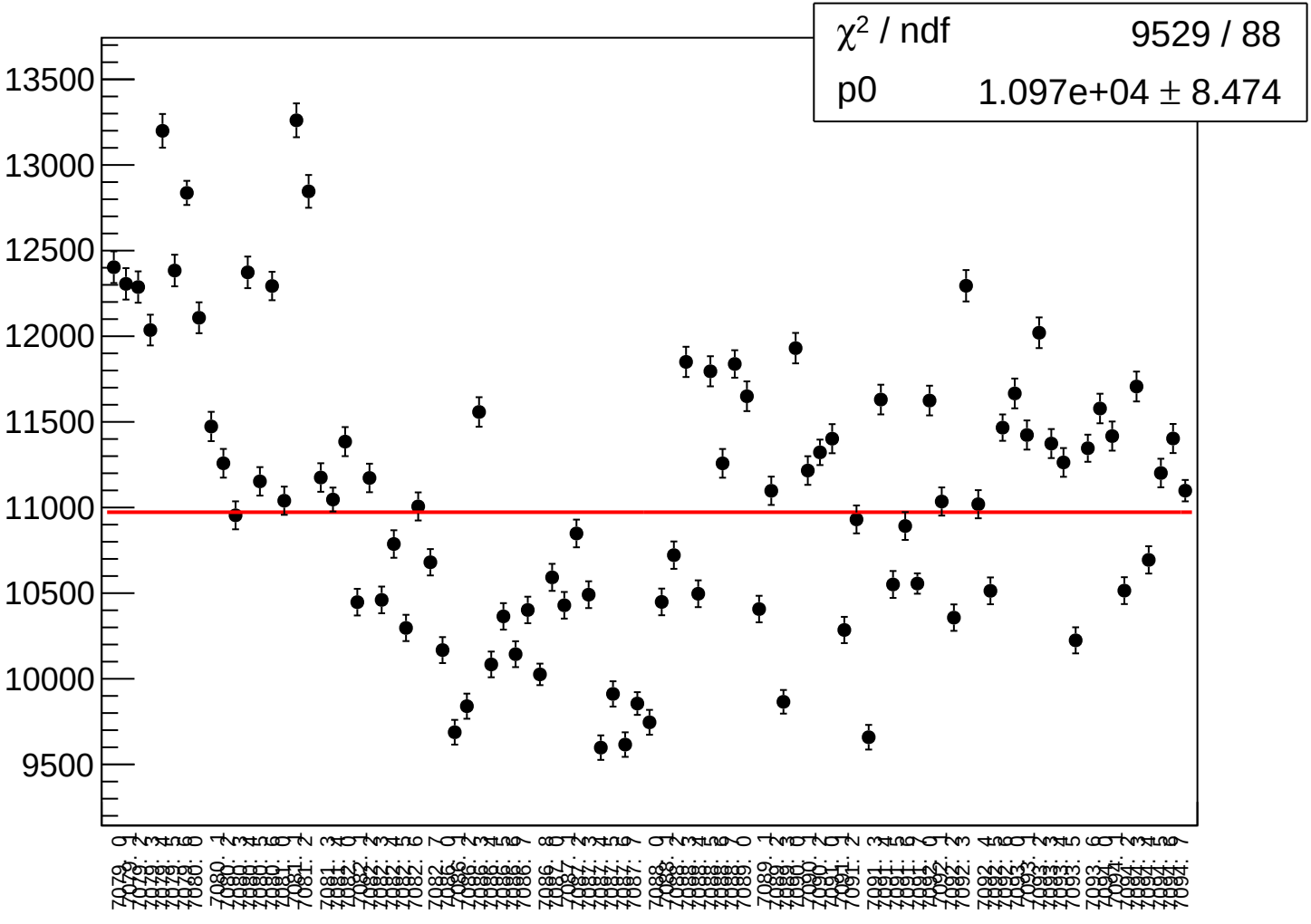

pull1D
Entries 89
Mean −0.008677
Std Dev 1.082

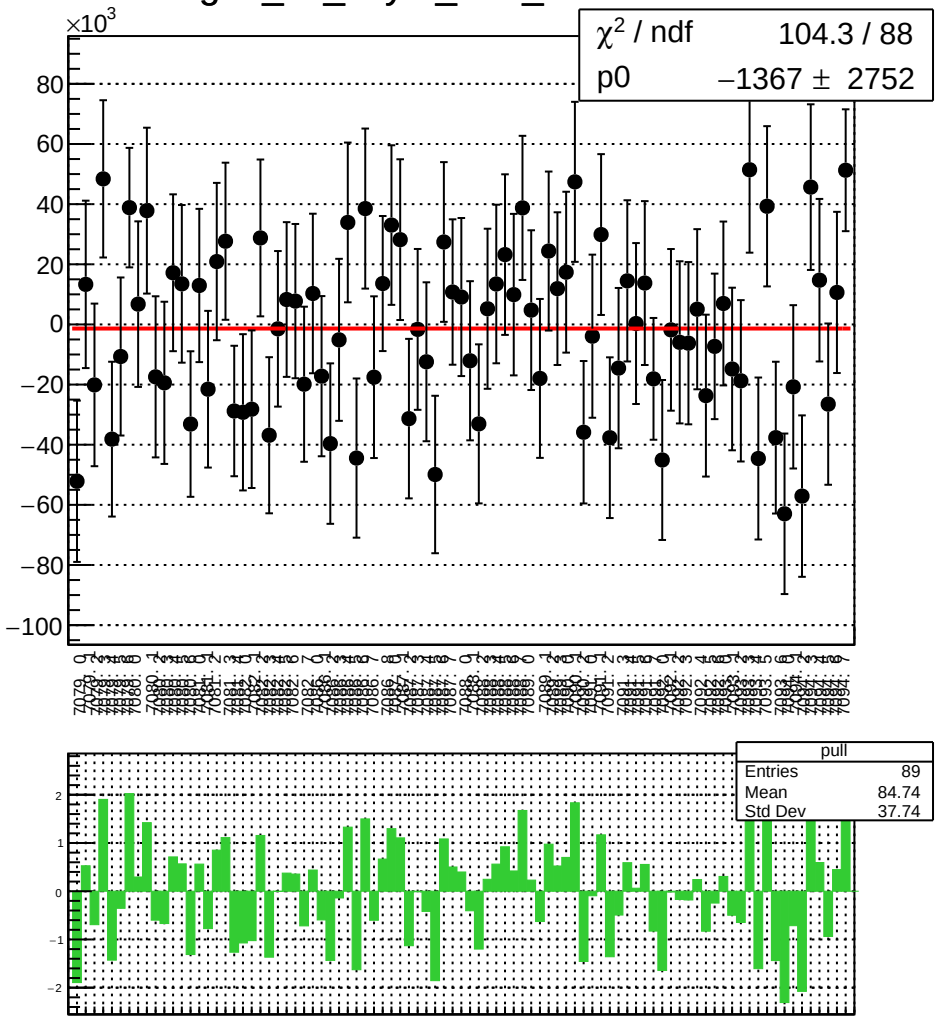

dit_asym_atr2_rms vs run
χ² / ndf 470.9 / 88
p0 2527 ± 1.946
2650
2600
2550
2500
2450
2400

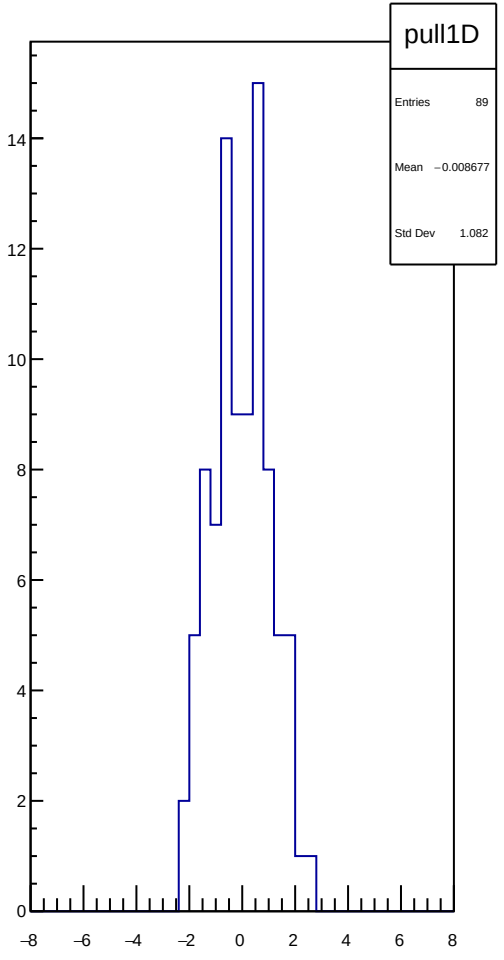

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 68.85 / 88
p0 −680.8 ± 1.198e+04
pull
Entries 89
Mean −390.3
Std Dev 0

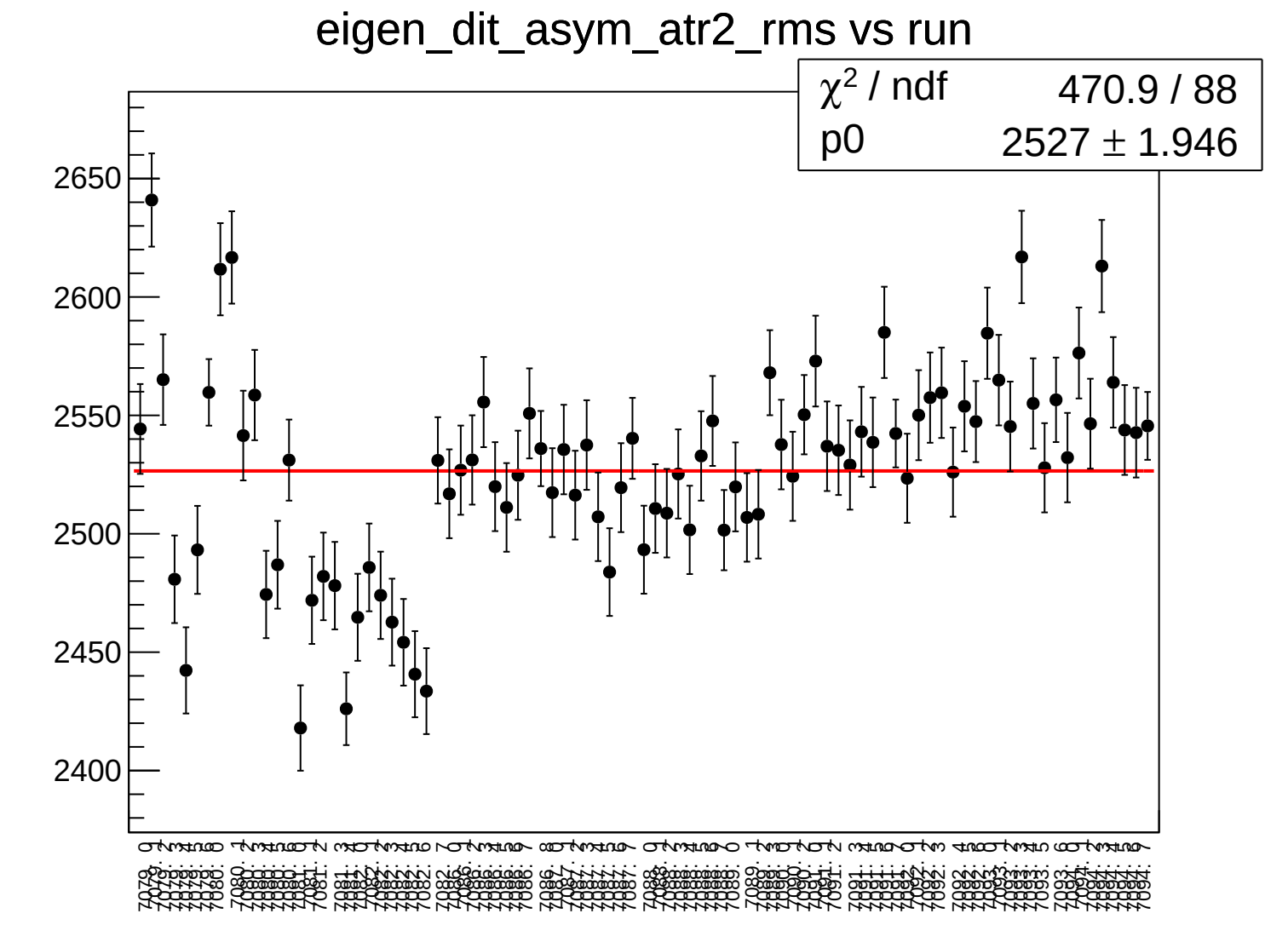

pull1D
Entries 89
Mean 0.004001
Std Dev 0.8795

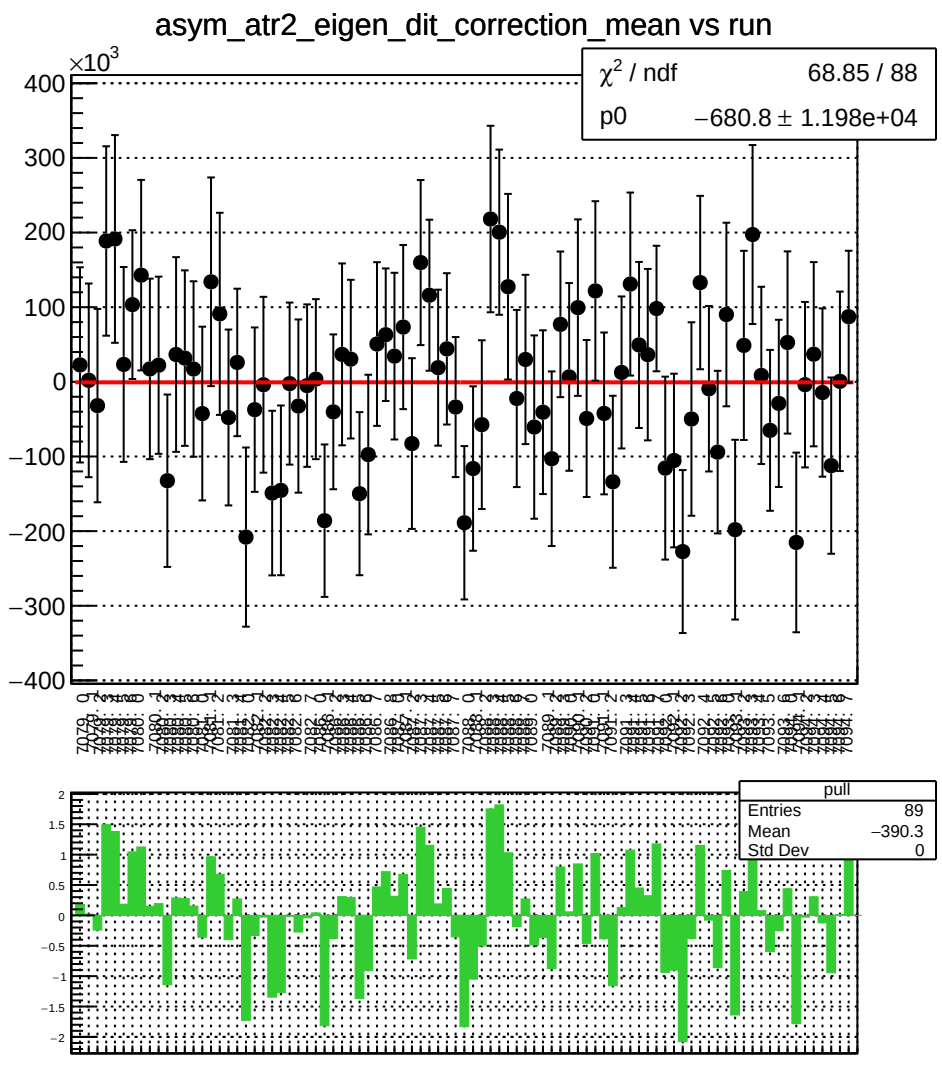
asym_atr2_dit_correction_rms vs run

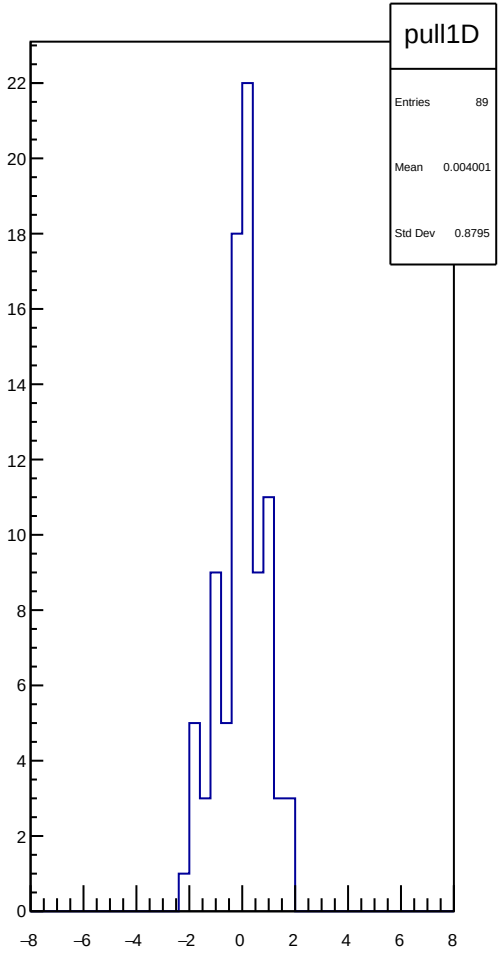


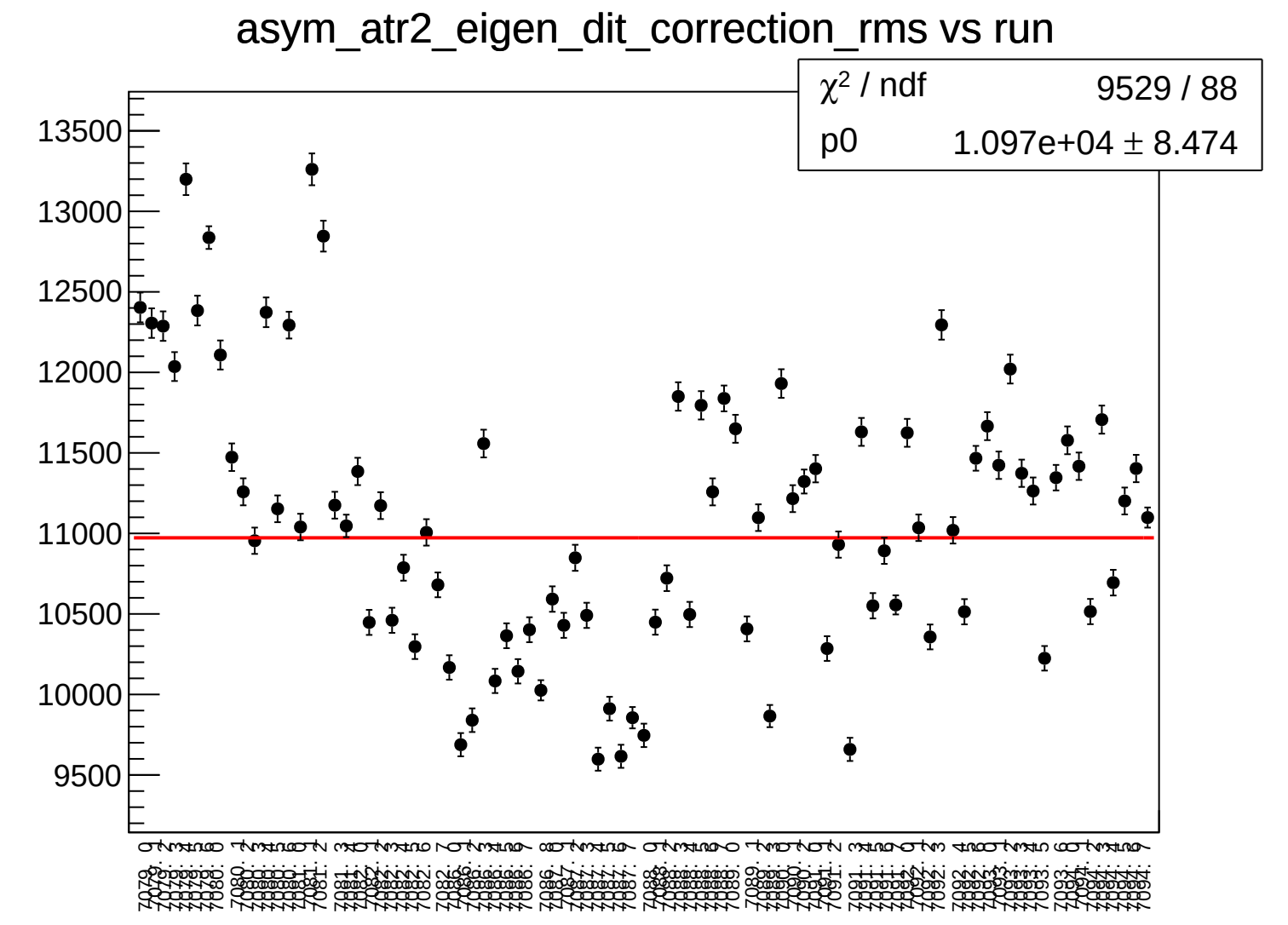

eigen_dit_asym_atr2_mean vs run
χ² / ndf 104.3 / 88
p0 −1367 ± 2752
×10³
pull
Entries 89
Mean 84.74
Std Dev 37.74

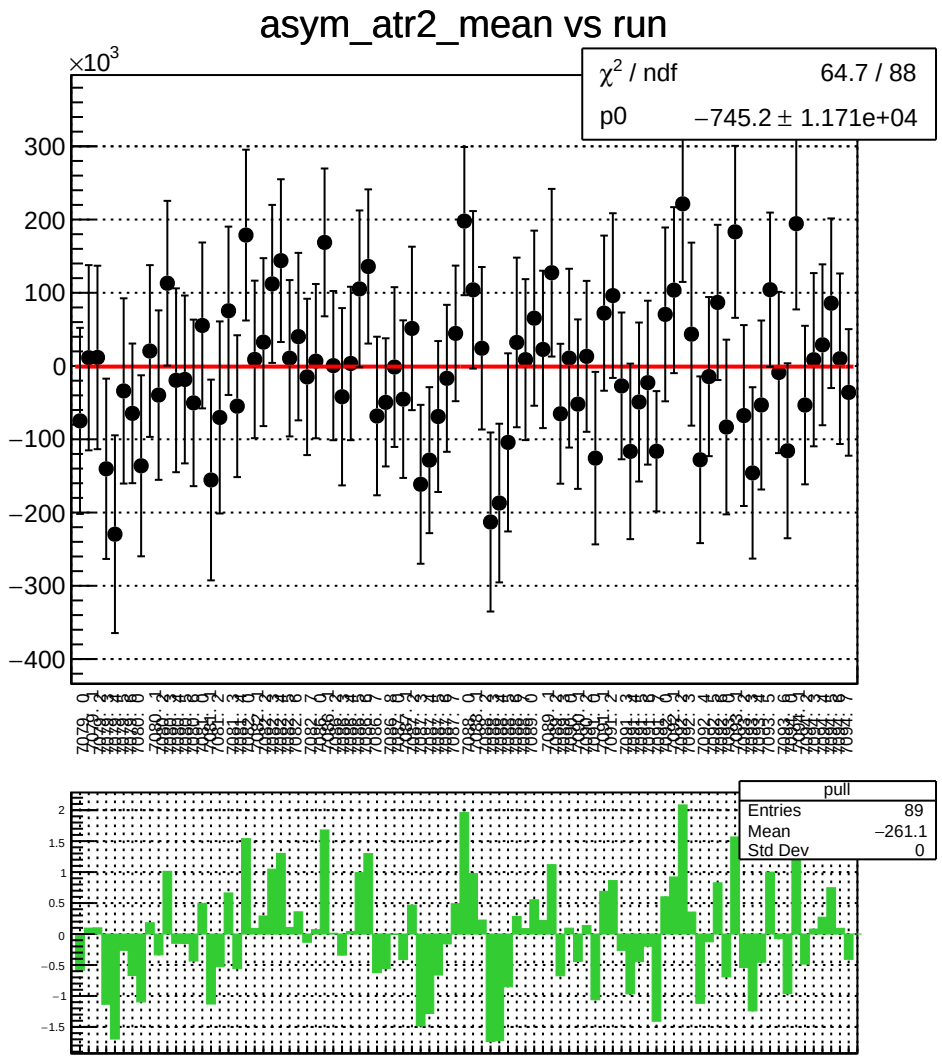

pull1D
Entries 89
Mean −0.008677
Std Dev 1.082

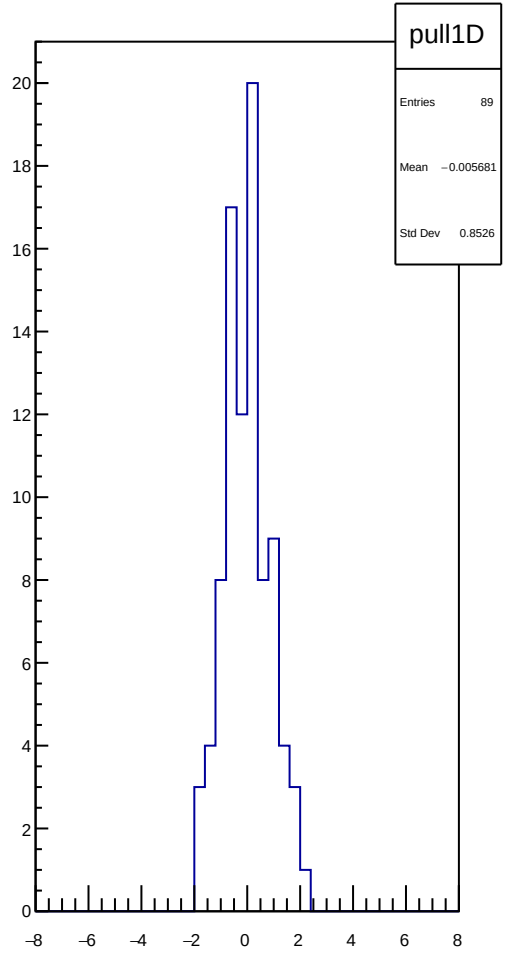

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 470.9 / 88
p0 2527 ± 1.946
2650
2600
2550
2500
2450
2400

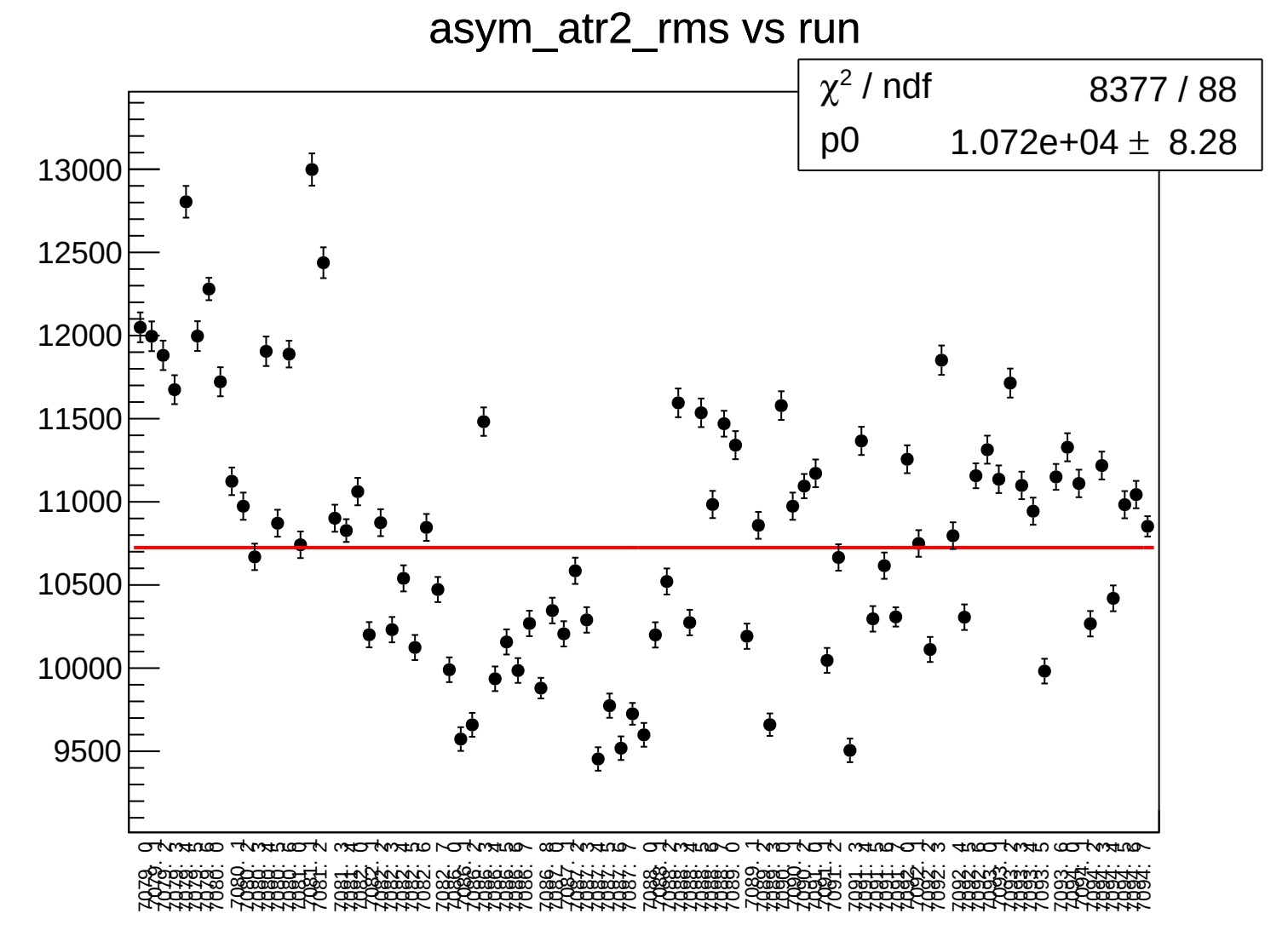

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.85 / 88
p0 −680.8 ± 1.198e+04
pull
Entries 89
Mean −390.3
Std Dev 0

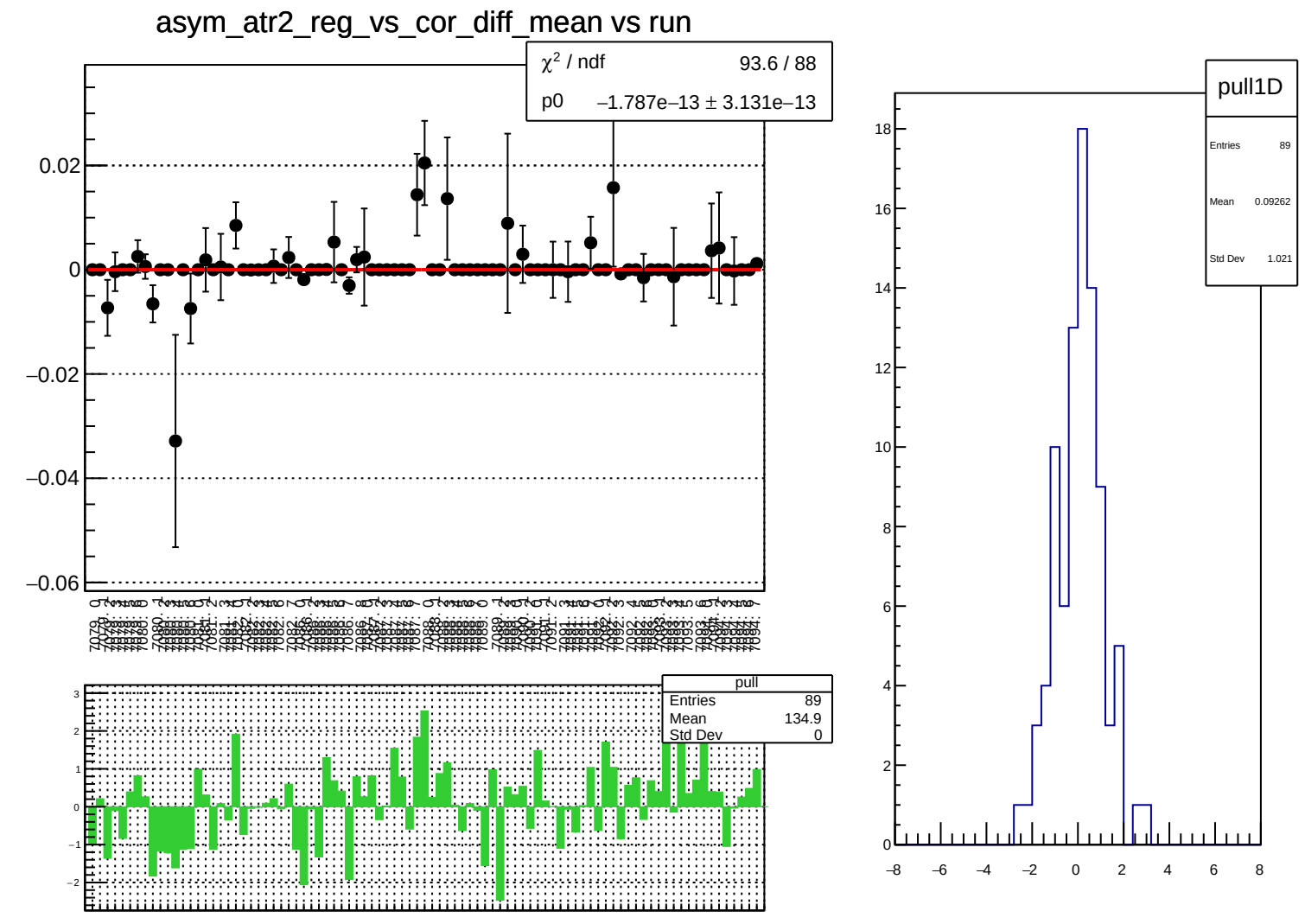

pull1D
Entries 89
Mean 0.004001
Std Dev 0.8795

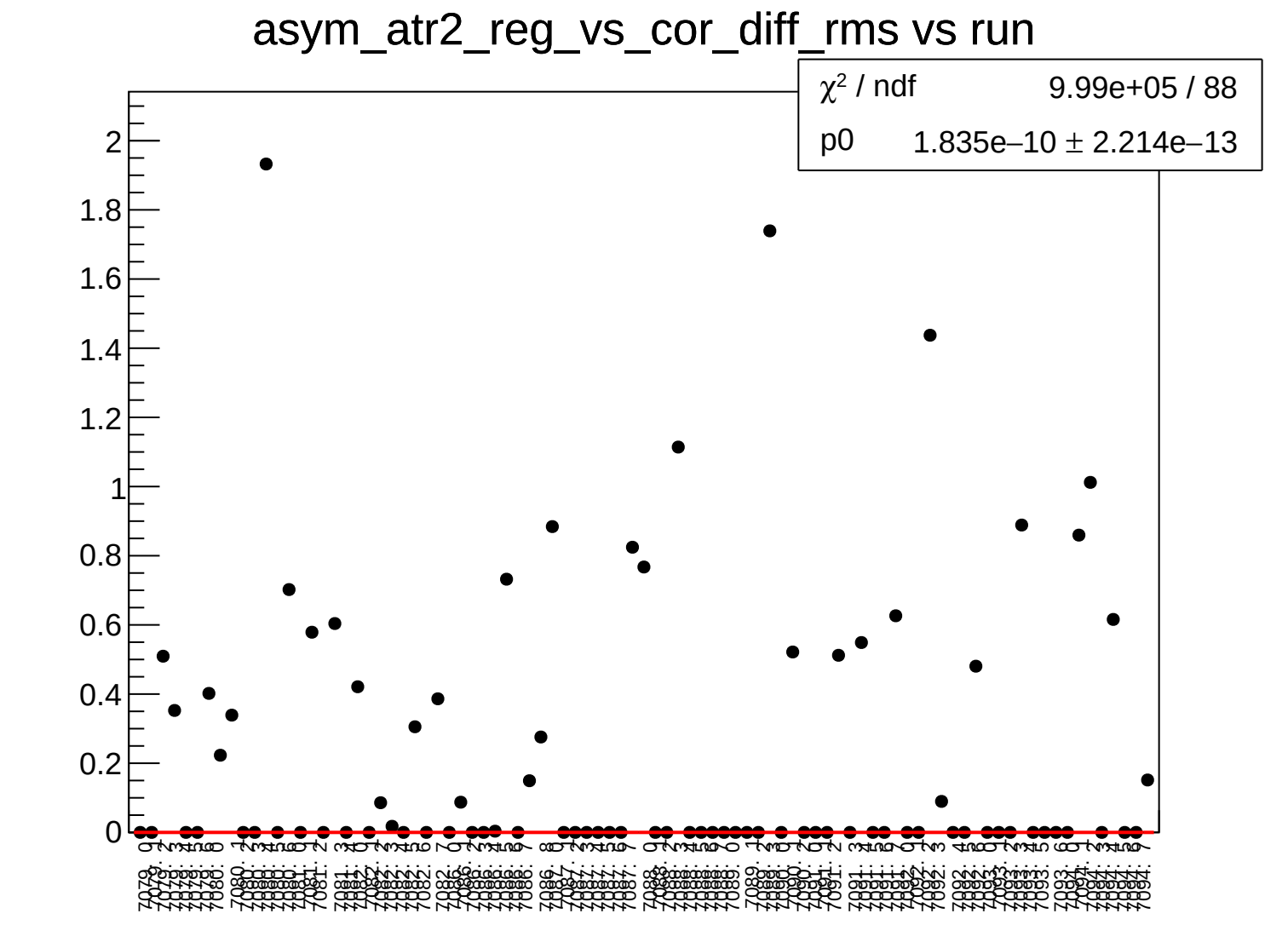

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 9529 / 88
p0 1.097e+04 ± 8.474
13500
13000
12500
12000
11500
11000
10500
10000
9500

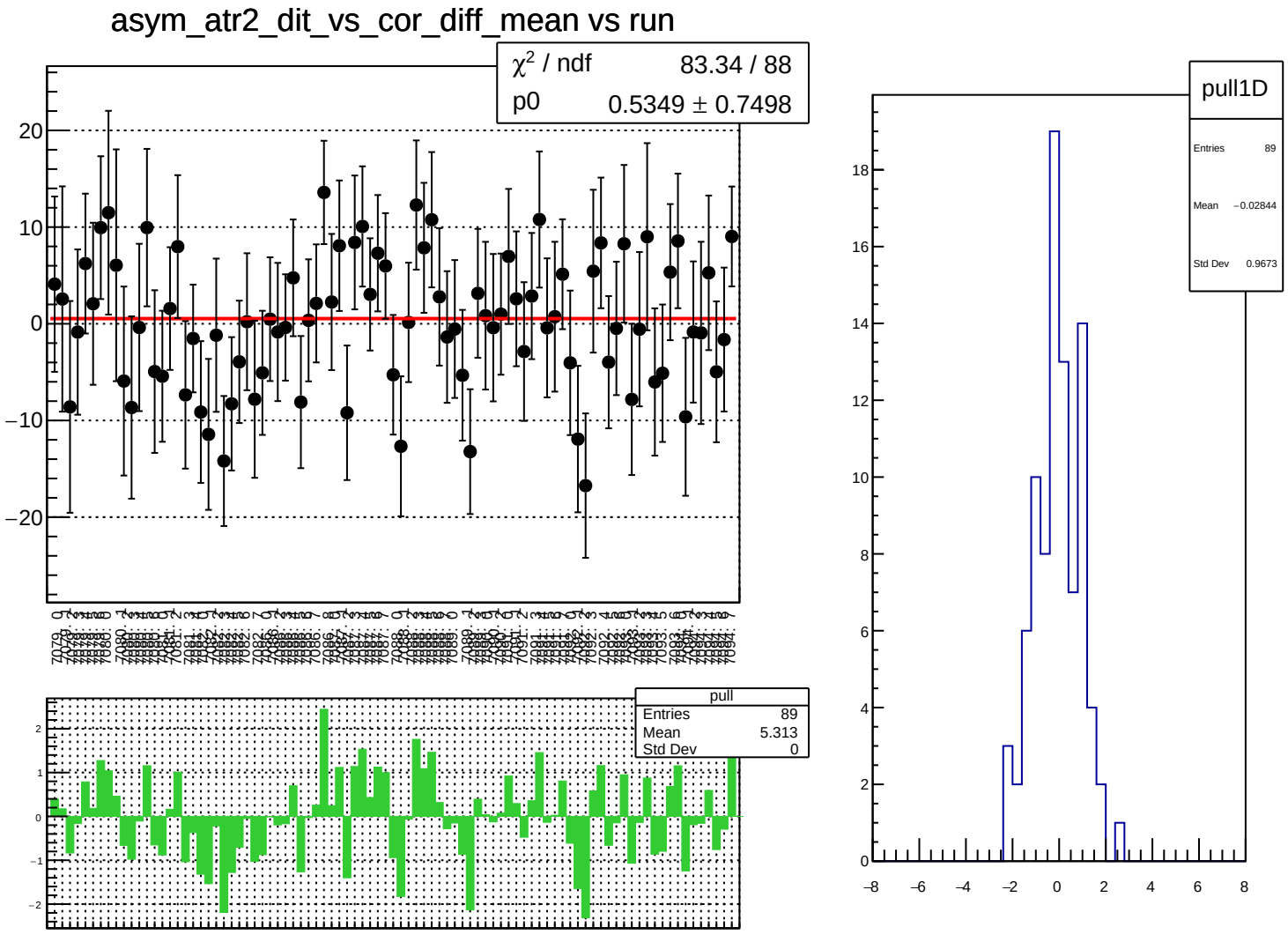

asym_atr2_mean vs run
×10^3
χ² / ndf 64.7 / 88
p0 −745.2 ± 1.171e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean −261.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

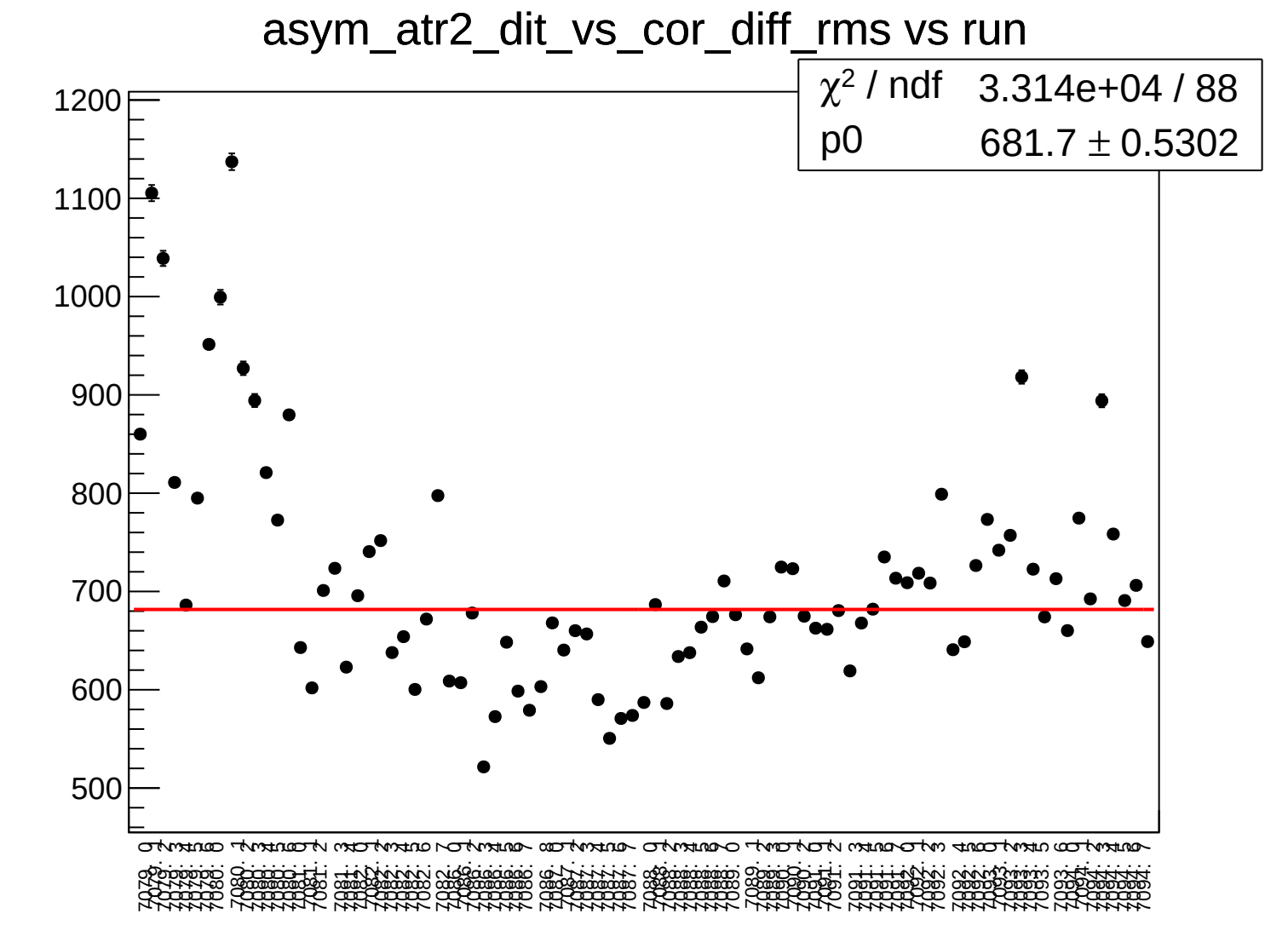

pull1D
Entries 89
Mean −0.005681
Std Dev 0.8526
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

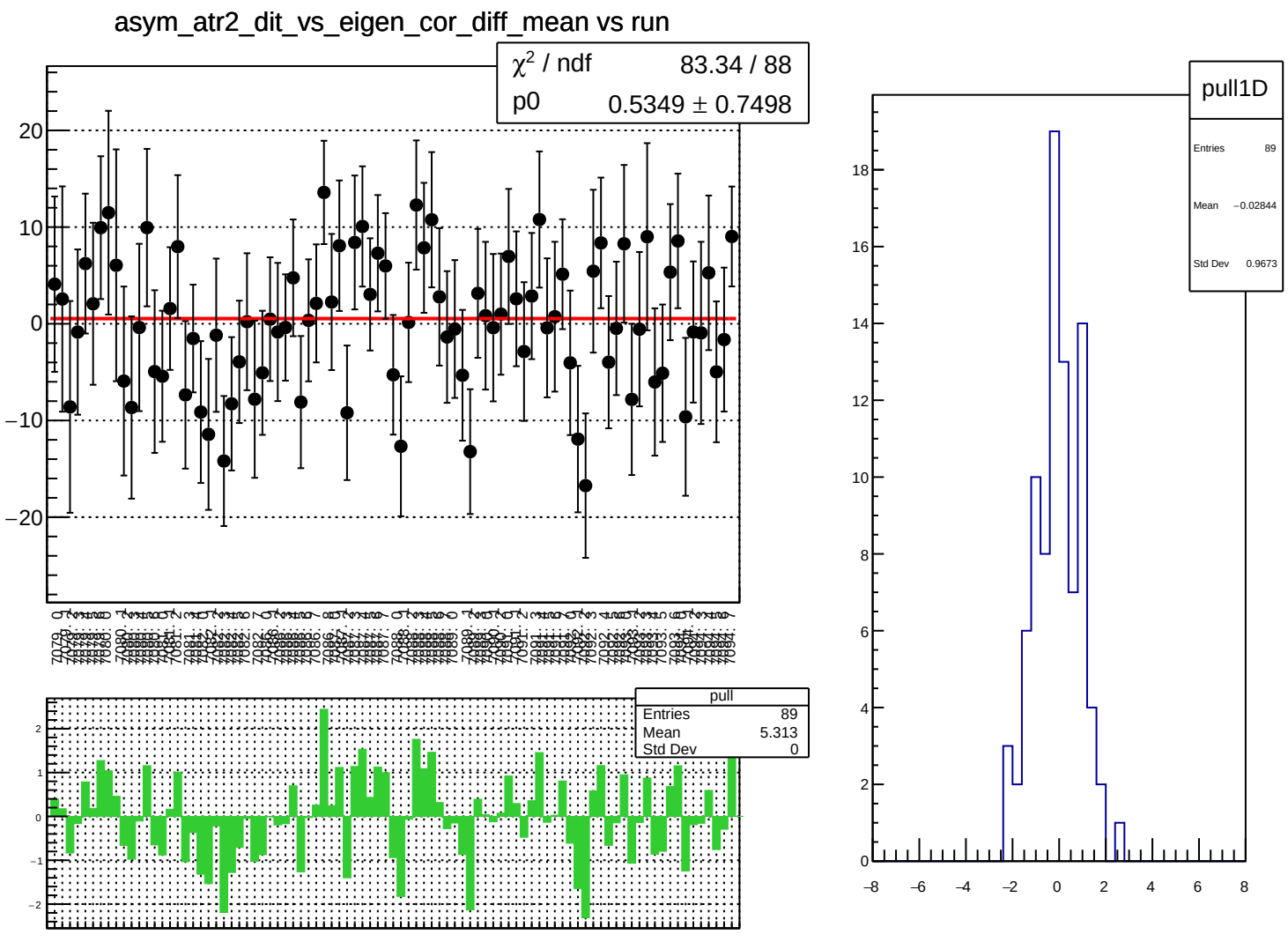

asym_atr2_rms vs run
χ² / ndf 8377 / 88
p0 1.072e+04 ± 8.28
13000
12500
12000
11500
11000
10500
10000
9500

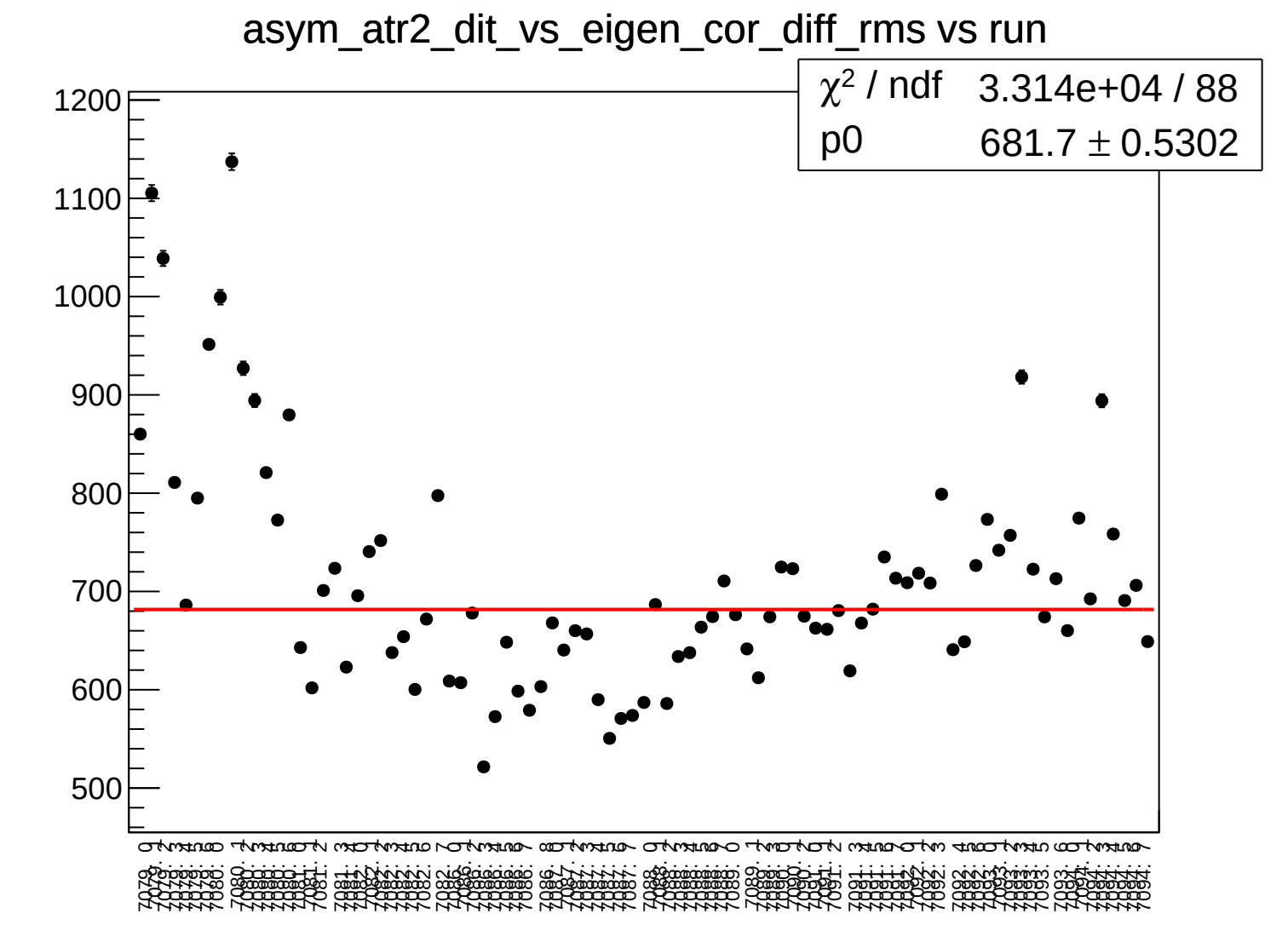

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 93.6 / 88
p0 −1.787e−13 ± 3.131e−13
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 134.9
Std Dev 0
pull1D
Entries 89
Mean 0.09262
Std Dev 1.021

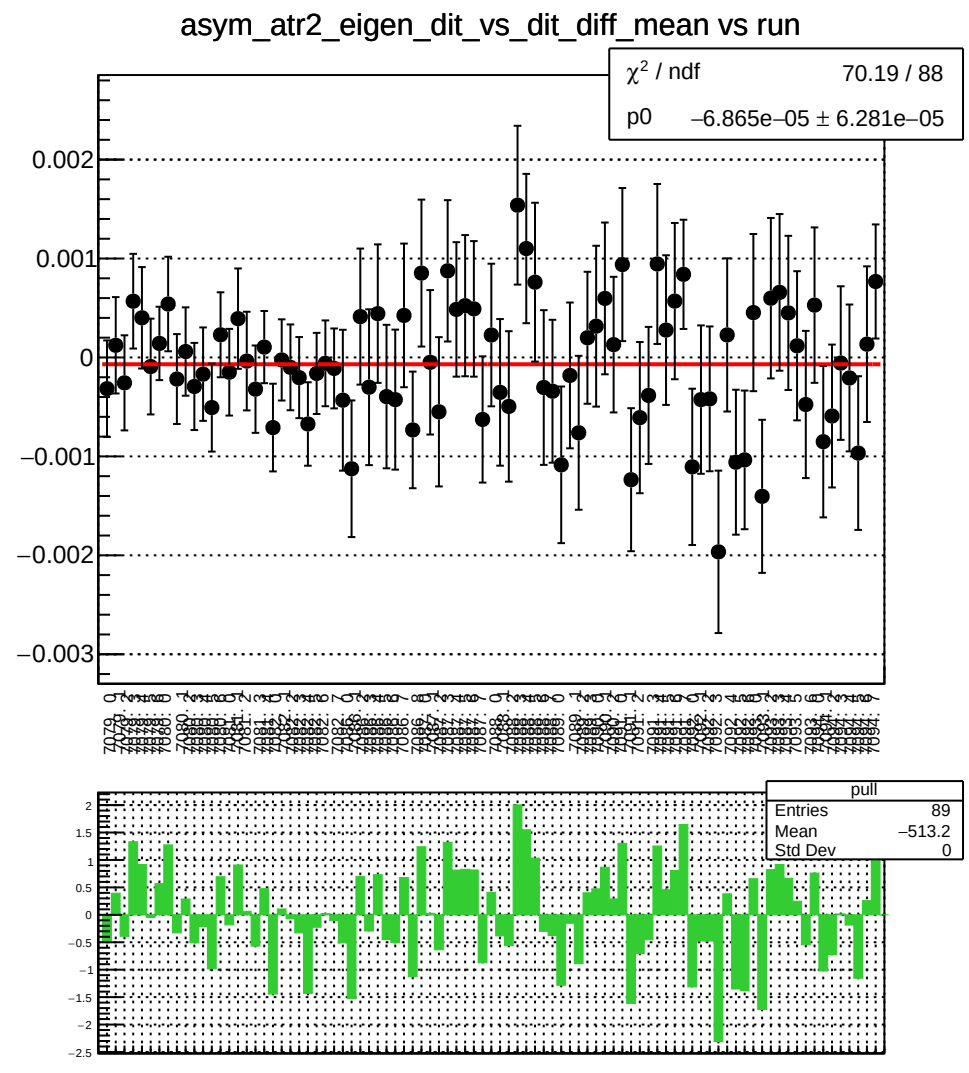

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.99e+05 / 88
p0 1.835e−10 ± 2.214e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

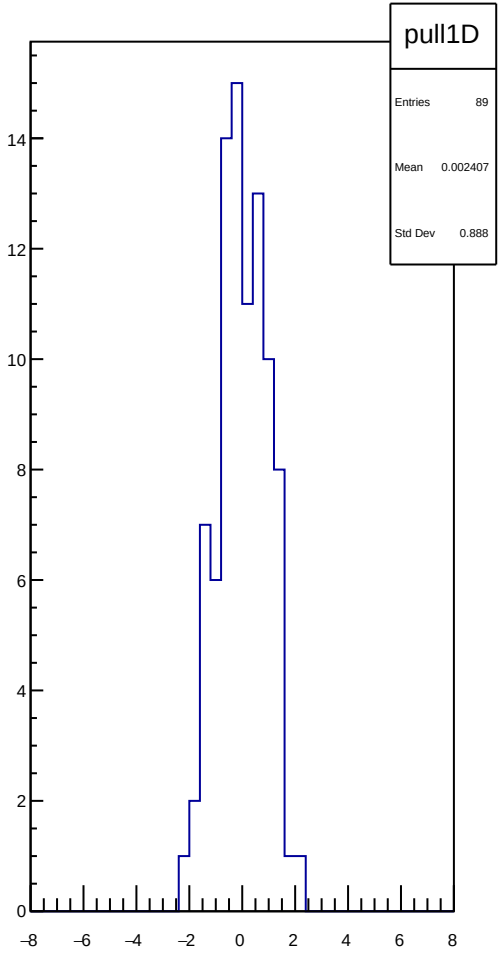

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 83.34 / 88
p0 0.5349 ± 0.7498
pull
Entries 89
Mean 5.313
Std Dev 0
pull1D
Entries 89
Mean −0.02844
Std Dev 0.9673

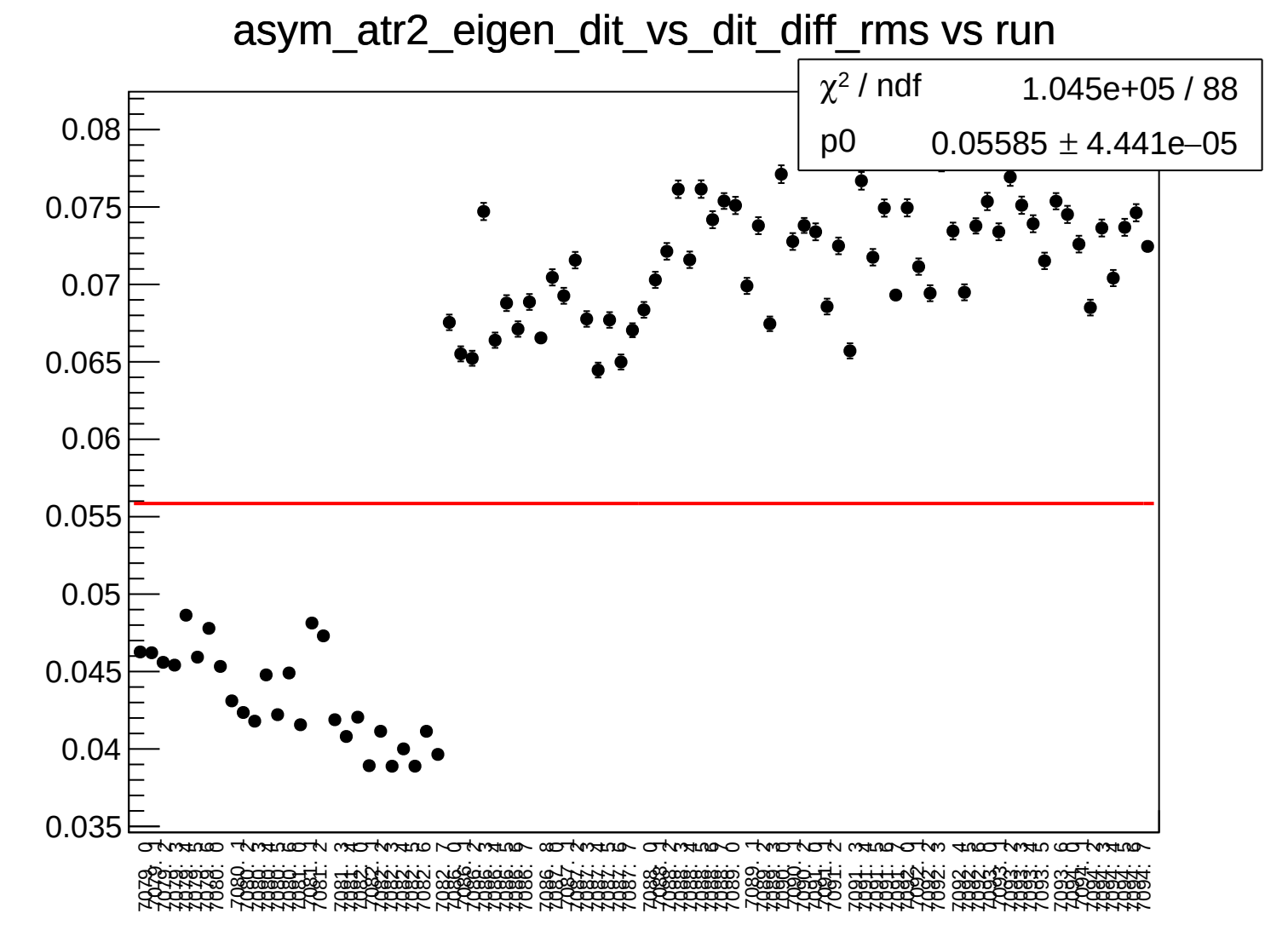

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.314e+04 / 88
p0 681.7 ± 0.5302
1200
1100
1000
900
800
700
600
500

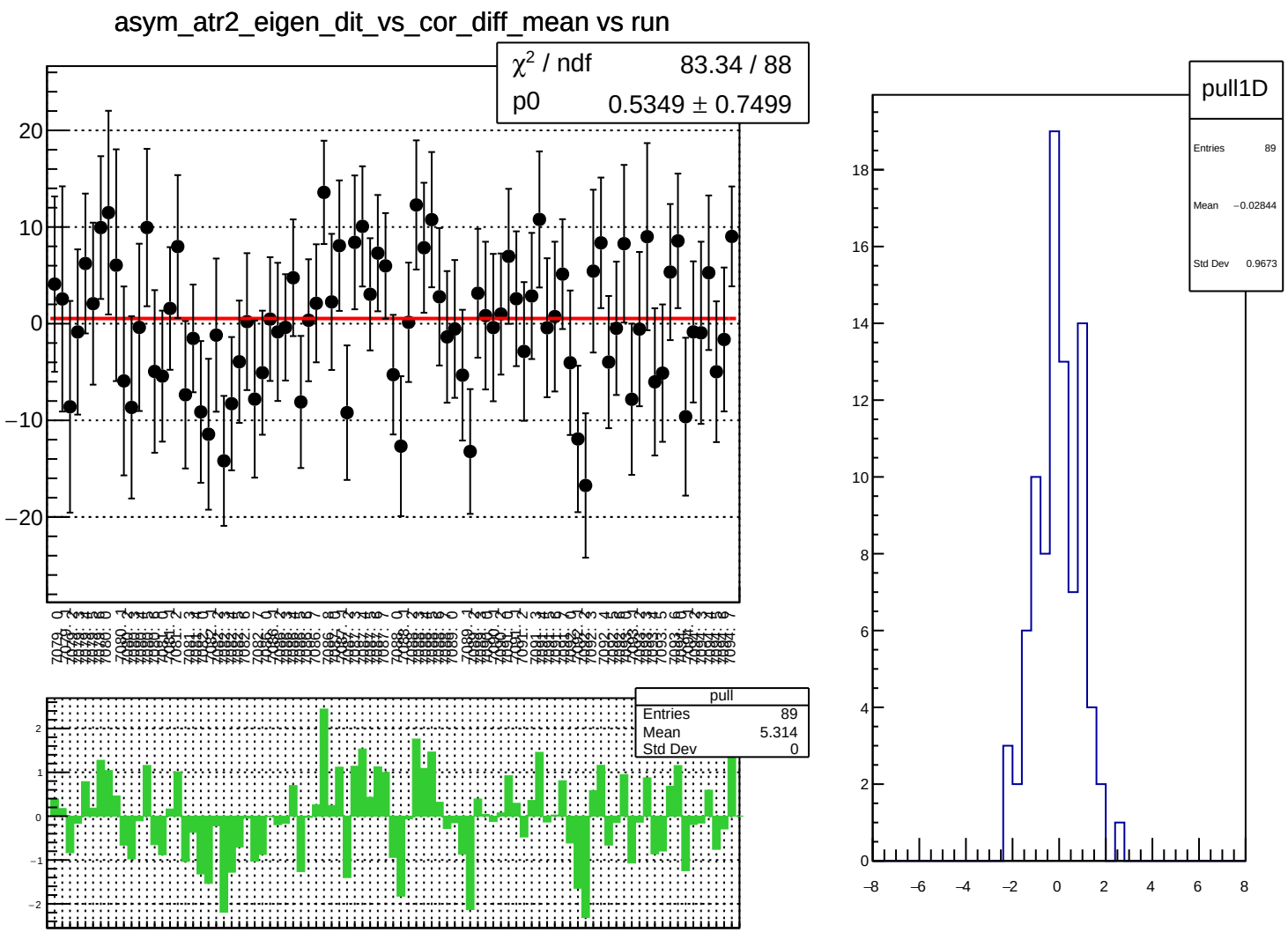

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.34 / 88
p0 0.5349 ± 0.7498
20
10
0
−10
−20
pull
Entries 89
Mean 5.313
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02844
Std Dev 0.9673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

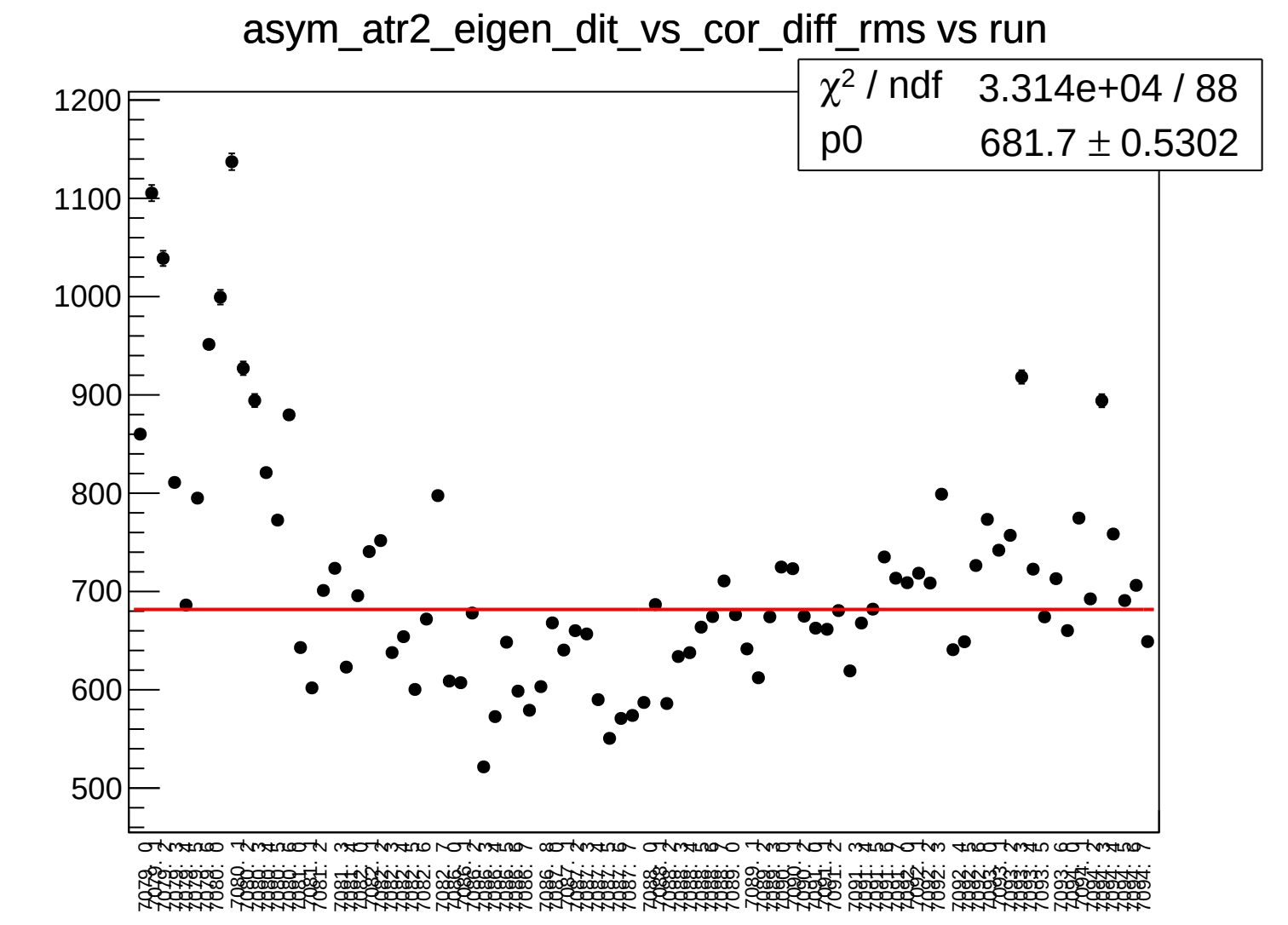

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.314e+04 / 88
p0 681.7 ± 0.5302
1200
1100
1000
900
800
700
600
500

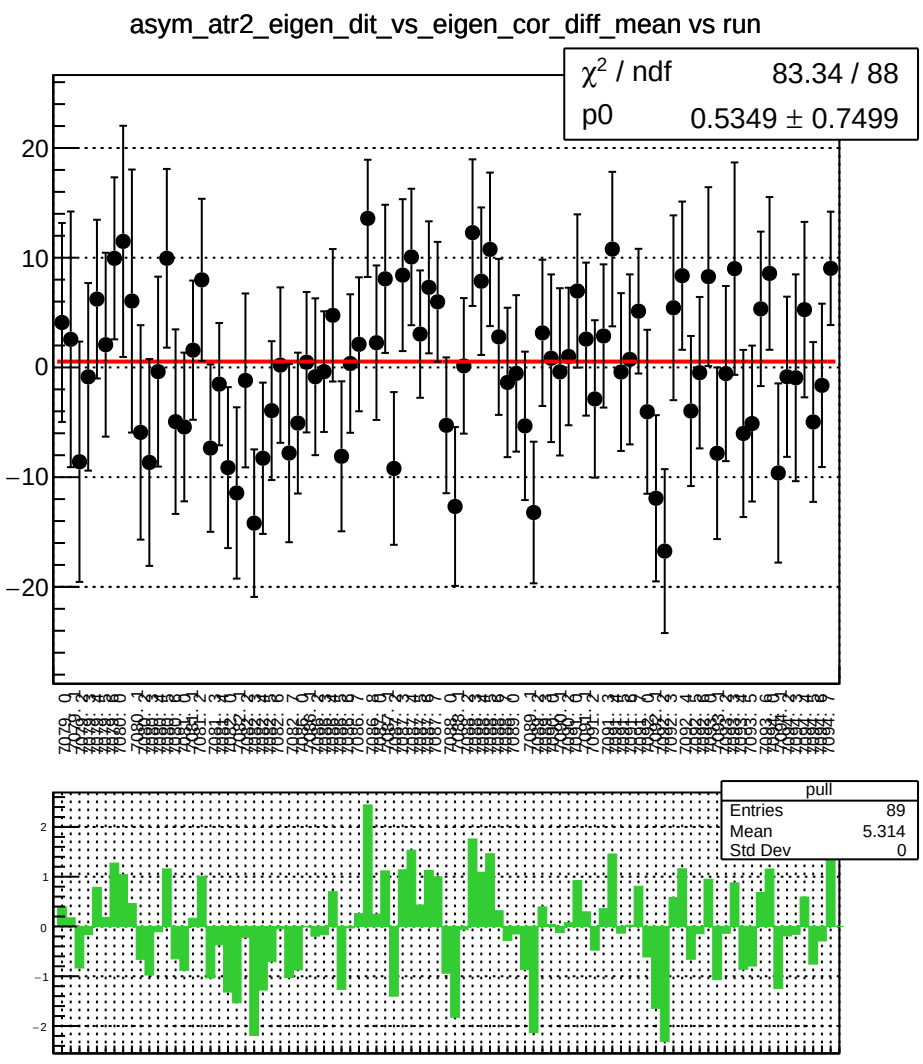

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.19 / 88
p0 −6.865e−05 ± 6.281e−05
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean −513.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

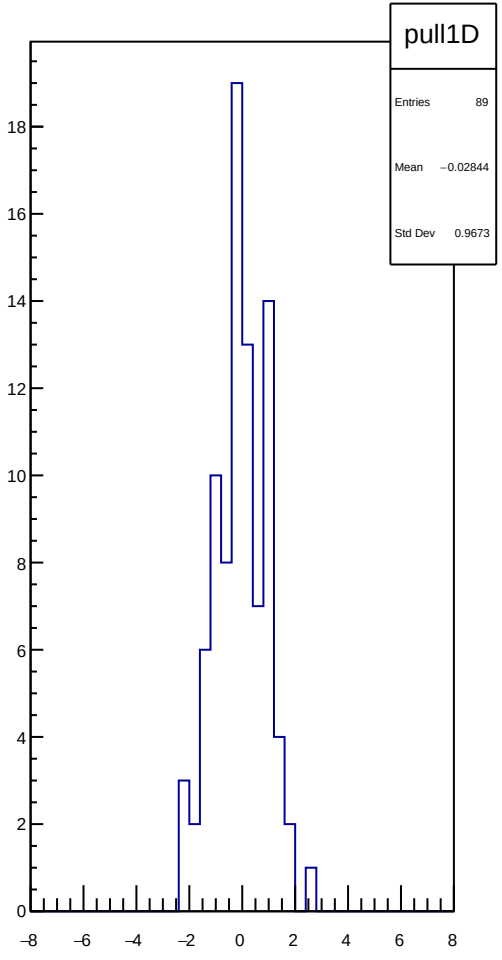

pull1D
Entries 89
Mean 0.002407
Std Dev 0.888
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

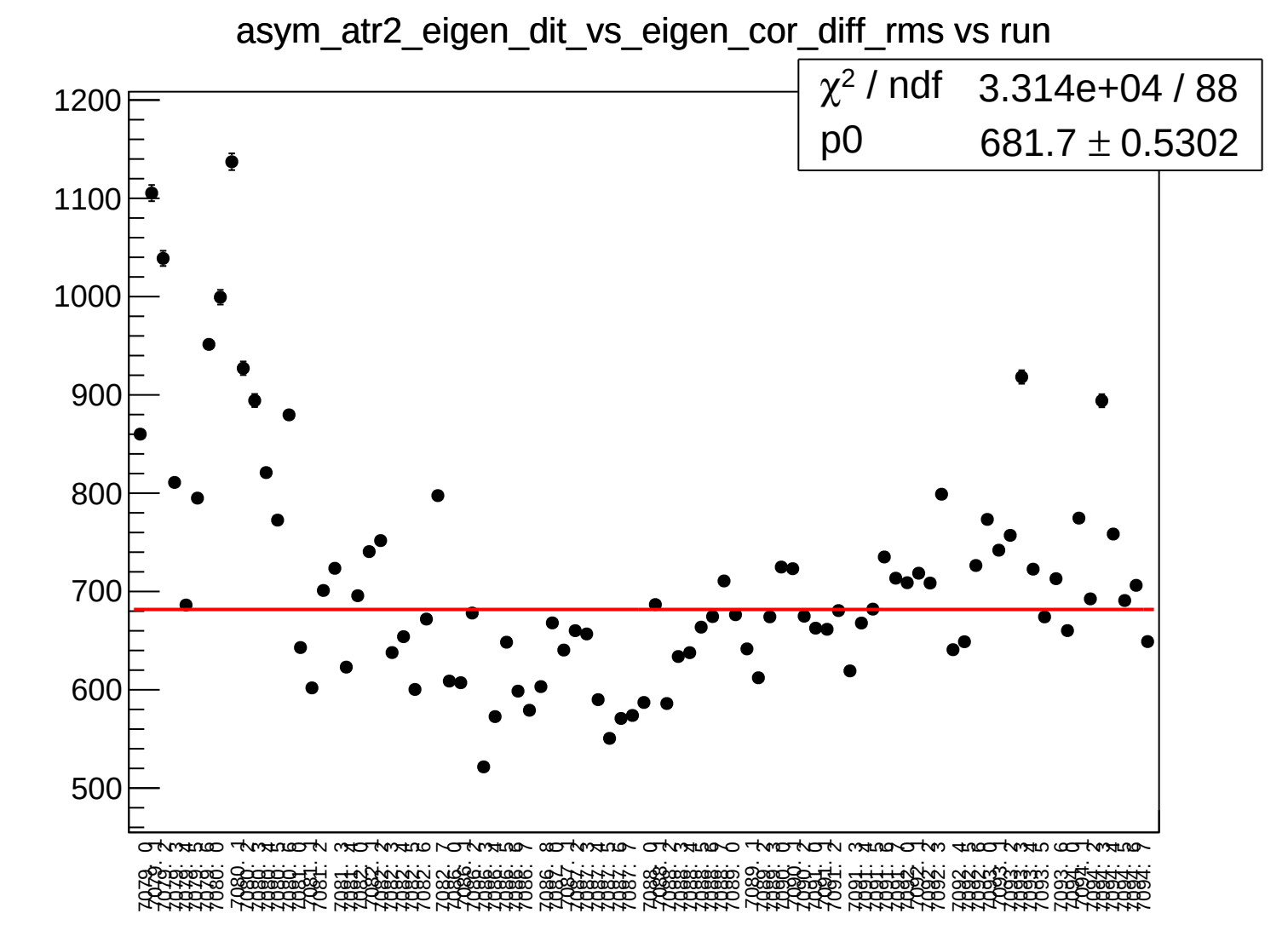

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.045e+05 / 88
p0 0.05585 ± 4.441e−05
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035

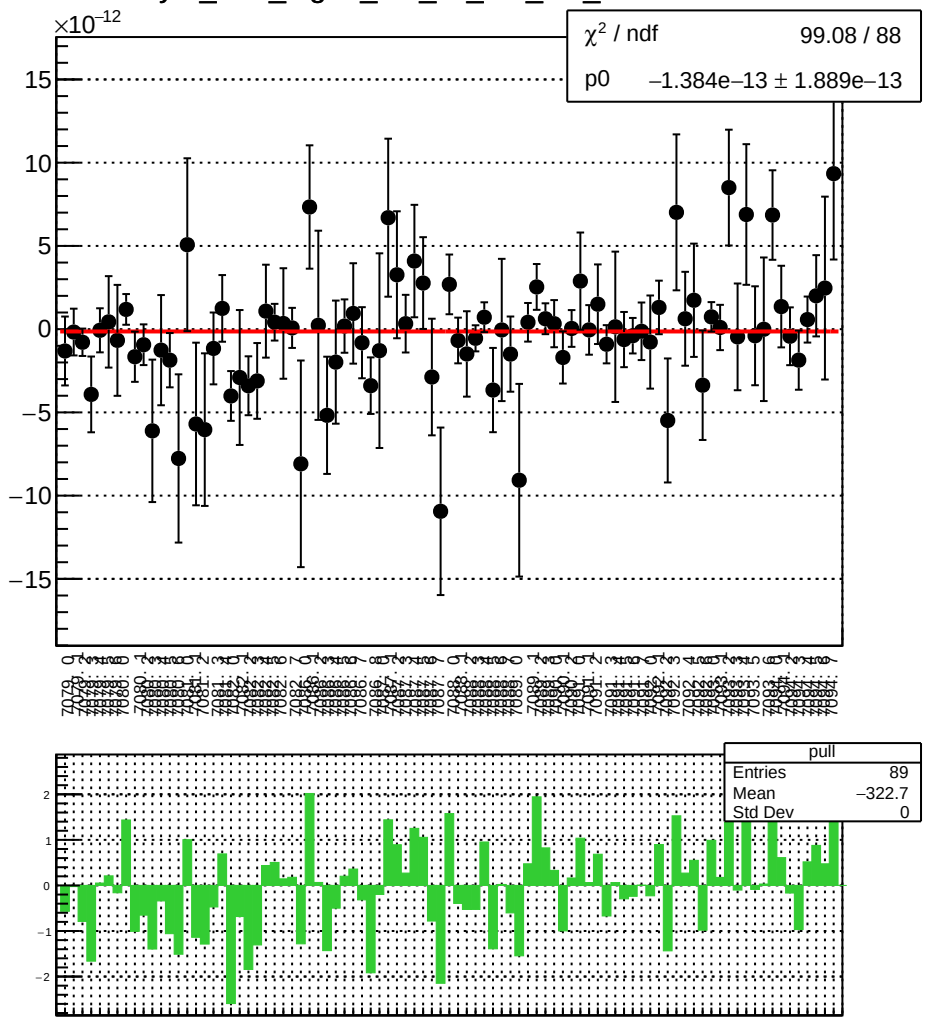

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.34 / 88
p0 0.5349 ± 0.7499
pull
Entries 89
Mean 5.314
Std Dev 0
pull1D
Entries 89
Mean −0.02844
Std Dev 0.9673

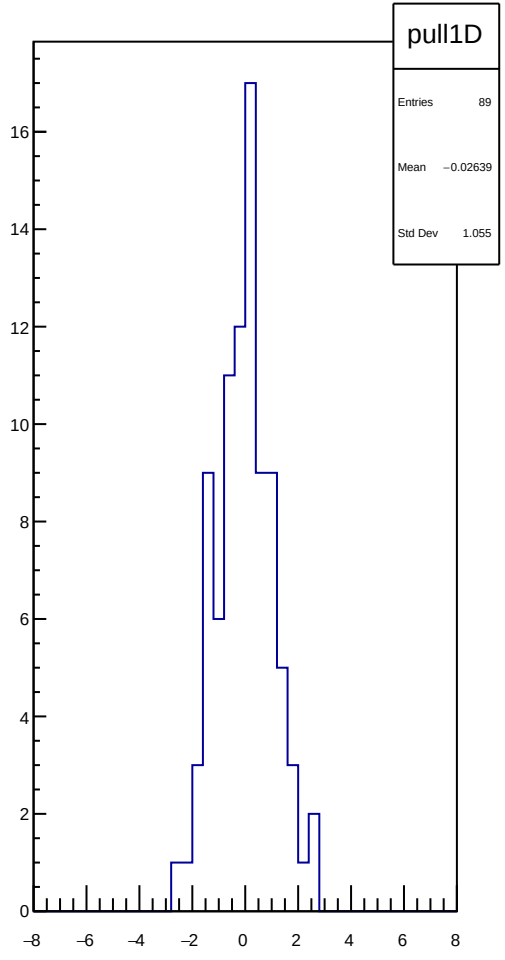

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.314e+04 / 88
p0 681.7 ± 0.5302
1200
1100
1000
900
800
700
600
500

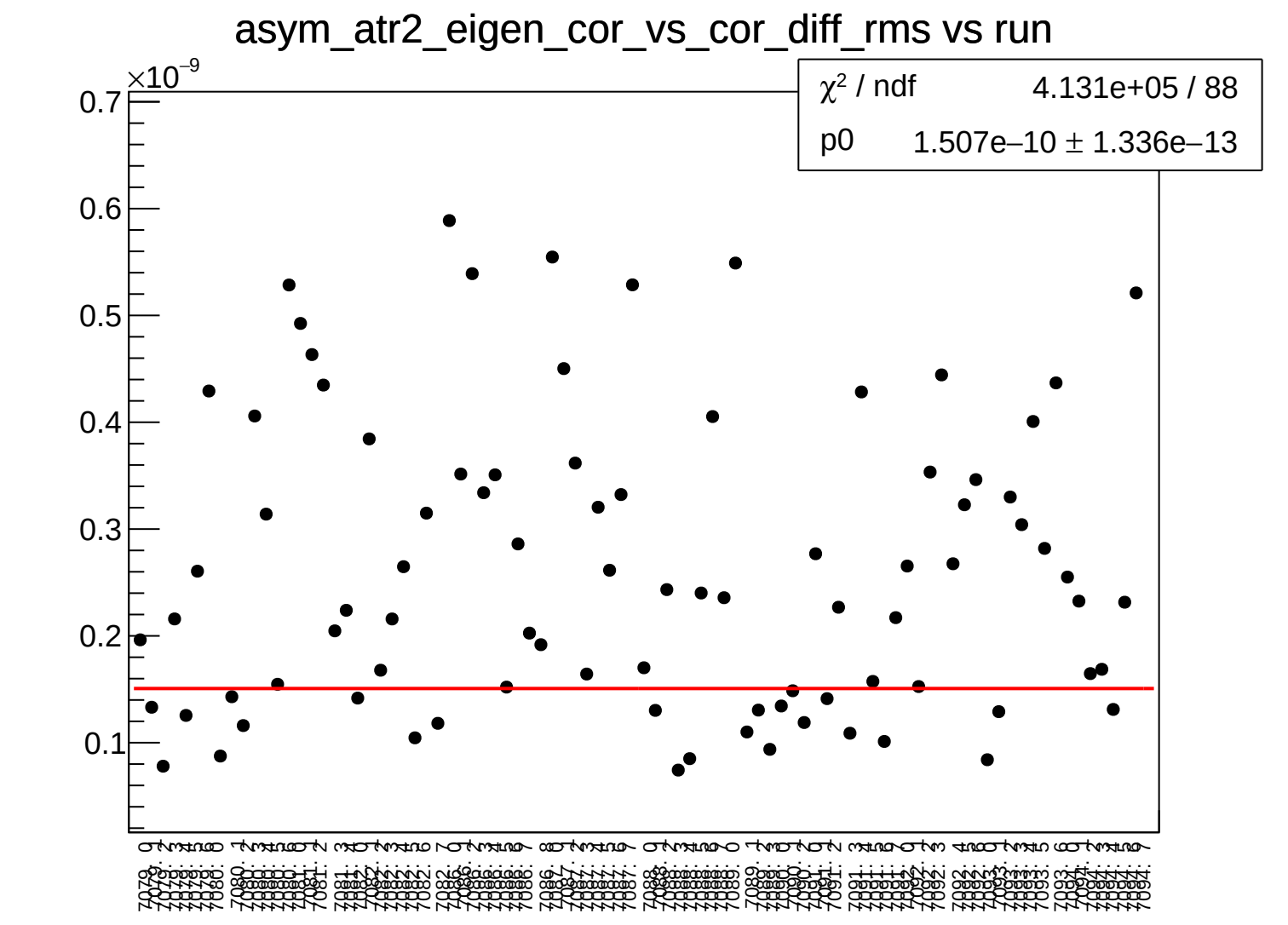

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.34 / 88
p0 0.5349 ± 0.7499
20
10
0
−10
−20
pull
Entries 89
Mean 5.314
Std Dev 0
2
1
0
−1
−2

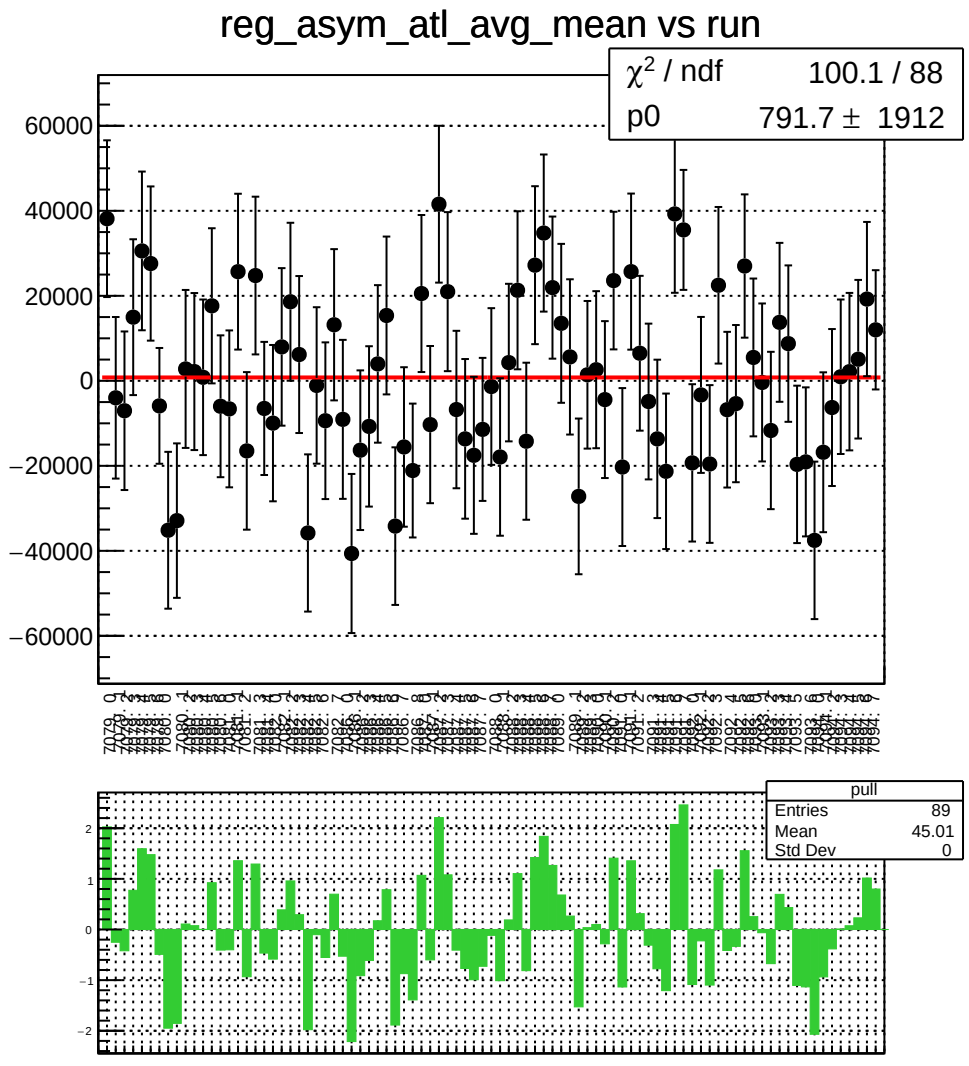

pull1D
Entries 89
Mean −0.02844
Std Dev 0.9673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

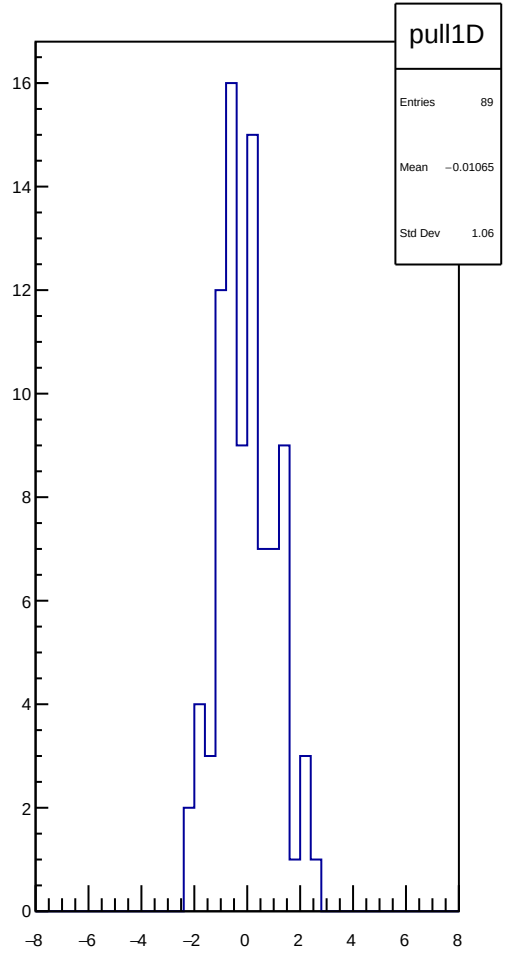

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.314e+04 / 88
p0 681.7 ± 0.5302
1200
1100
1000
900
800
700
600
500

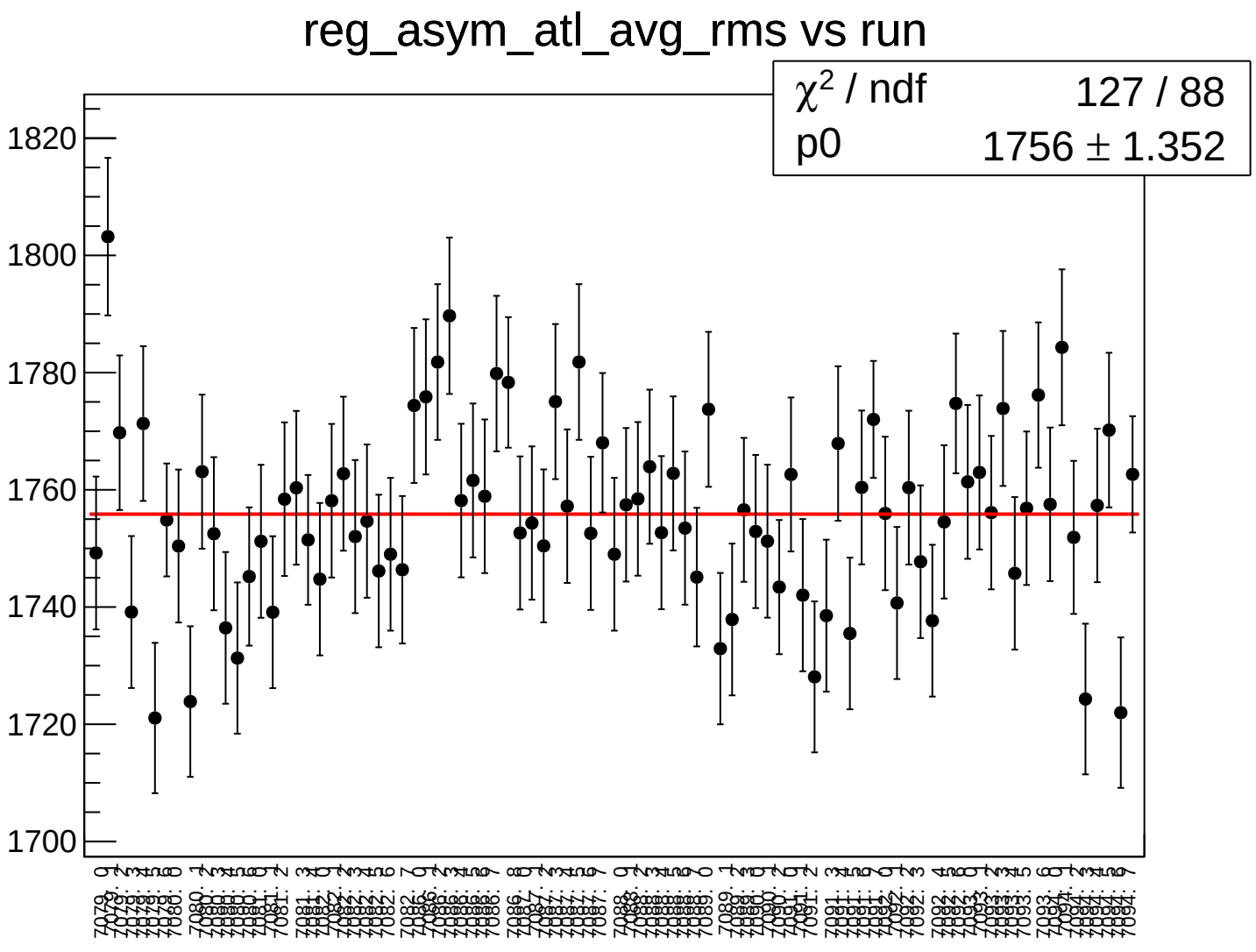

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.08 / 88
p0 −1.384e−13 ± 1.889e−13
15
10
5
0
−5
−10
−15
pull
Entries 89
Mean −322.7
Std Dev 0
2
1
0
−1
−2

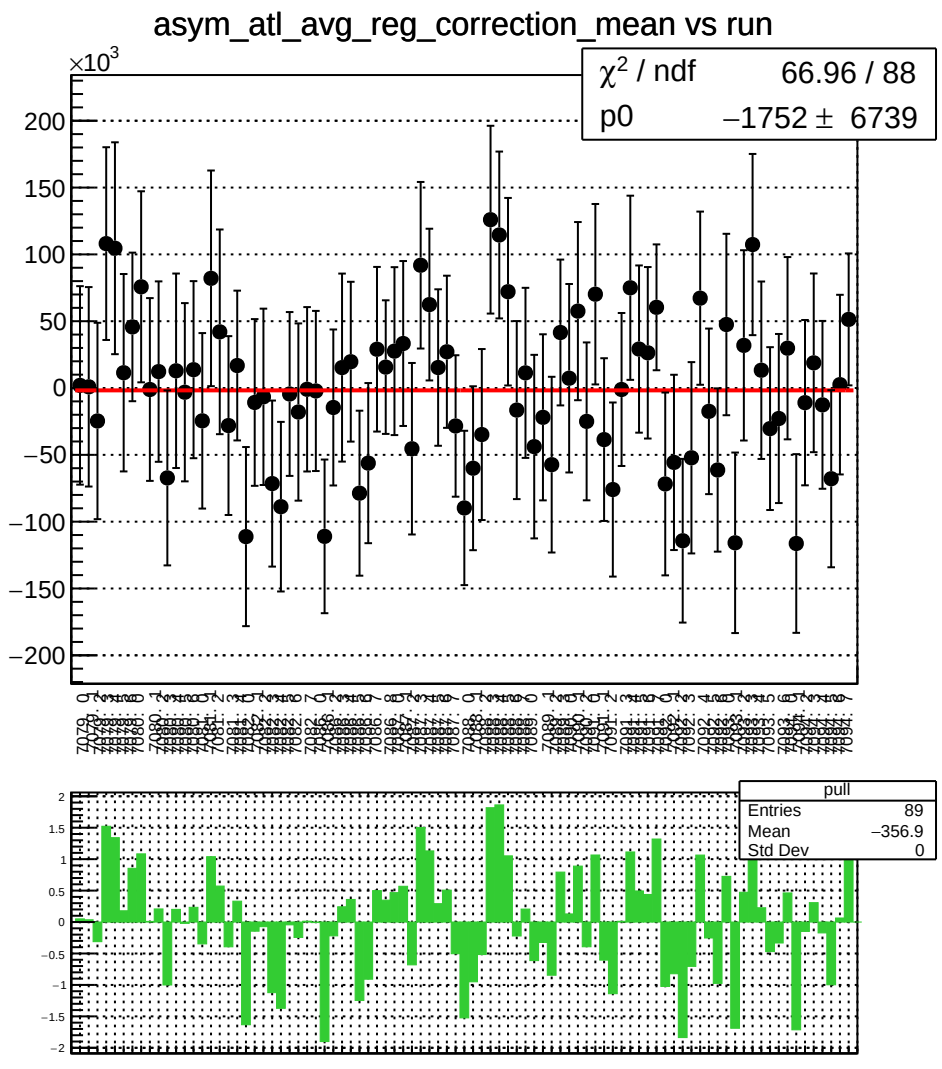

pull1D
Entries 89
Mean −0.02639
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

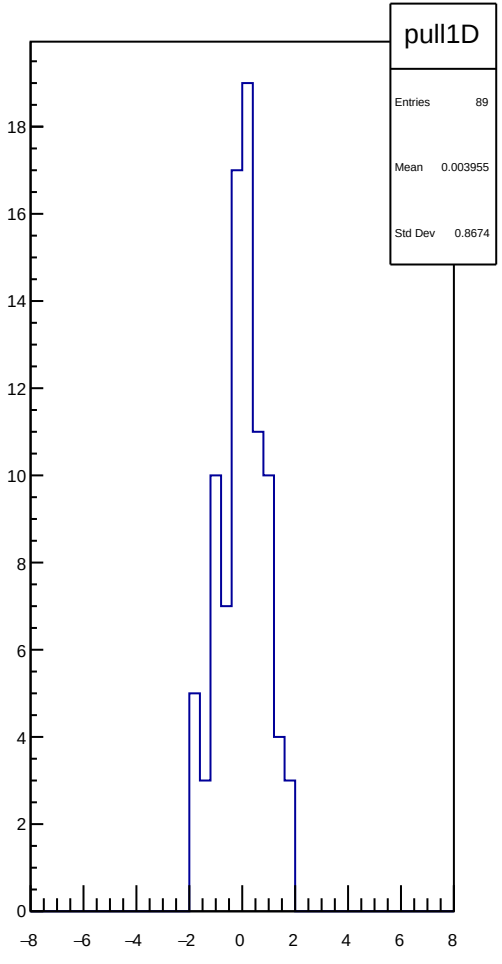

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.131e+05 / 88
p0 1.507e−10 ± 1.336e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

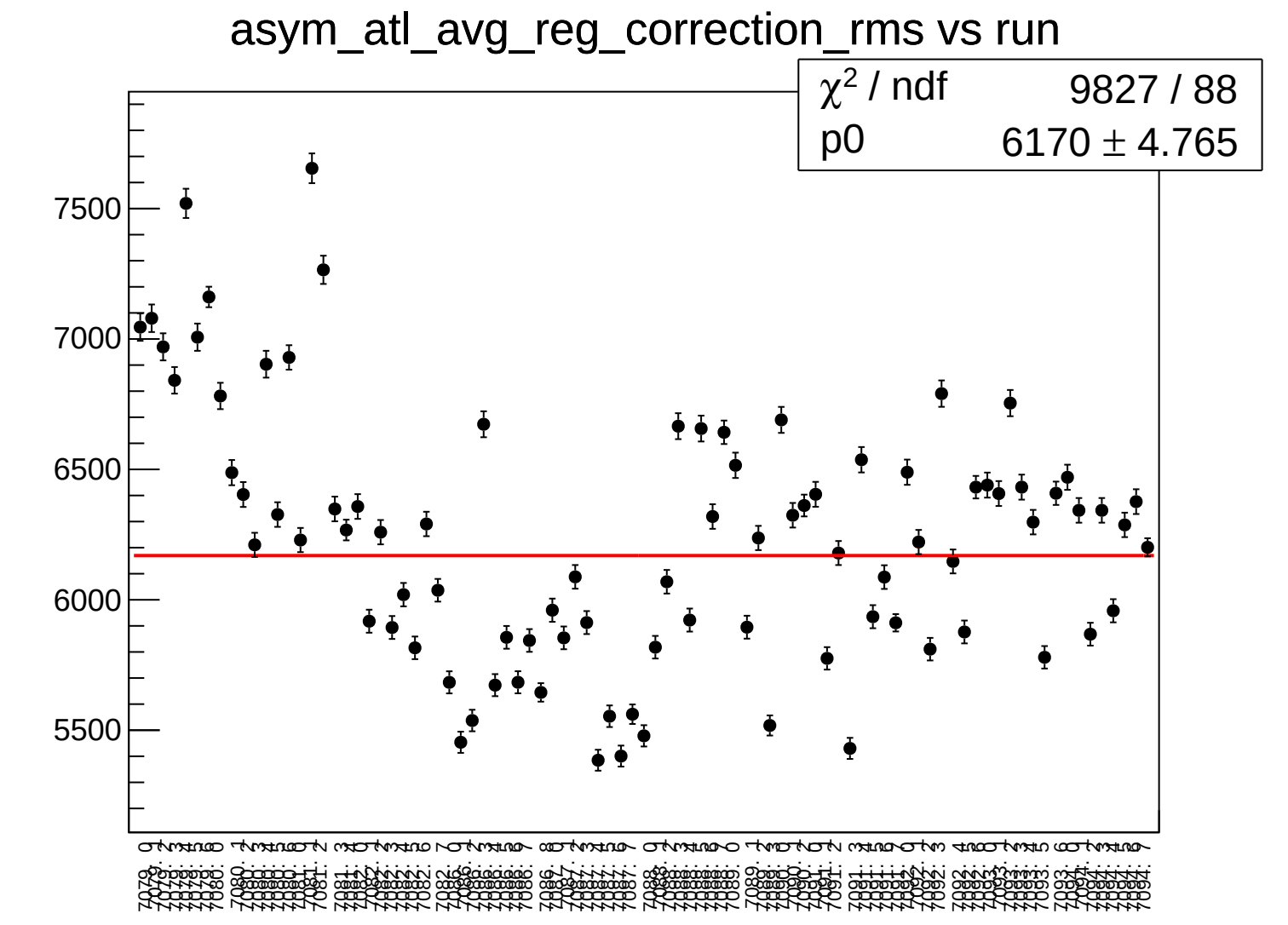

reg_asym_atl_avg_mean vs run
χ² / ndf 100.1 / 88
p0 791.7 ± 1912
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 45.01
Std Dev 0
2
1
0
−1
−2

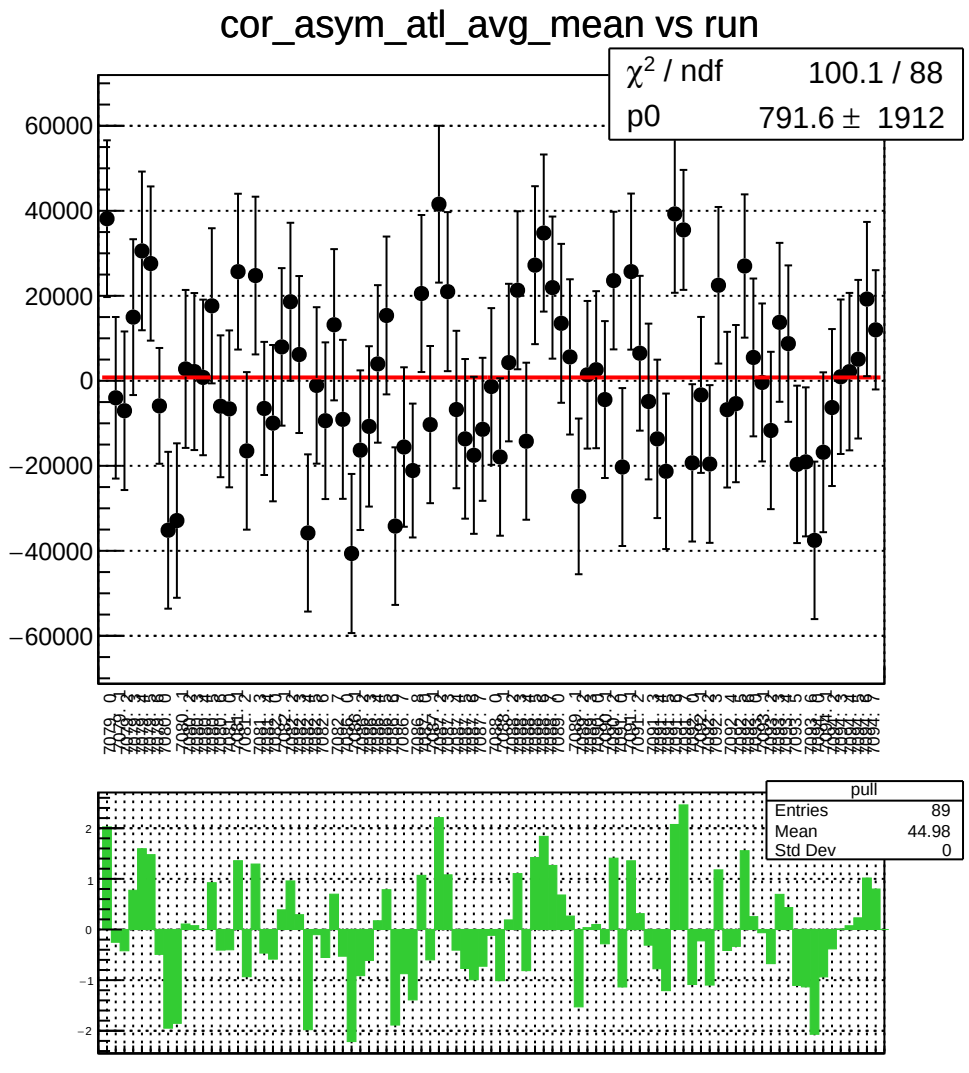

pull1D
Entries 89
Mean −0.01065
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

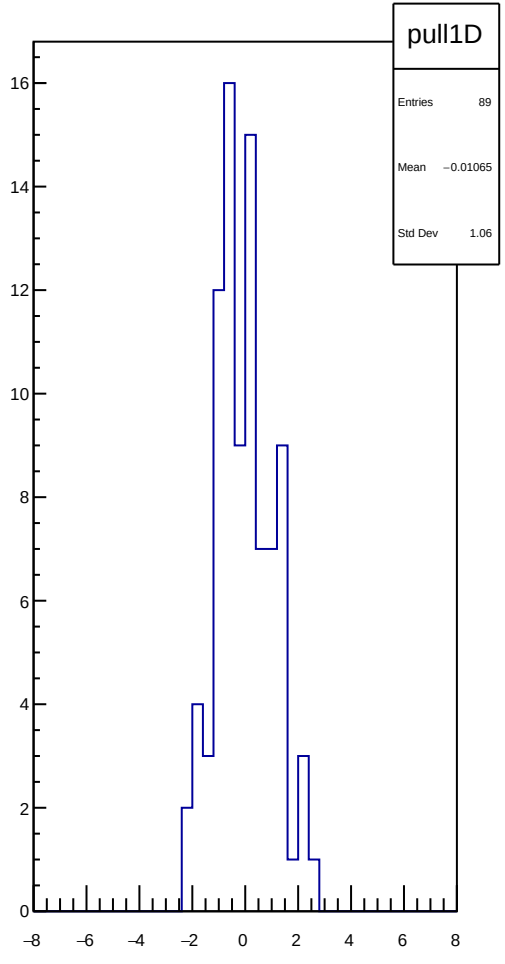

reg_asym_atl_avg_rms vs run
χ² / ndf 127 / 88
p0 1756 ± 1.352
1820
1800
1780
1760
1740
1720
1700

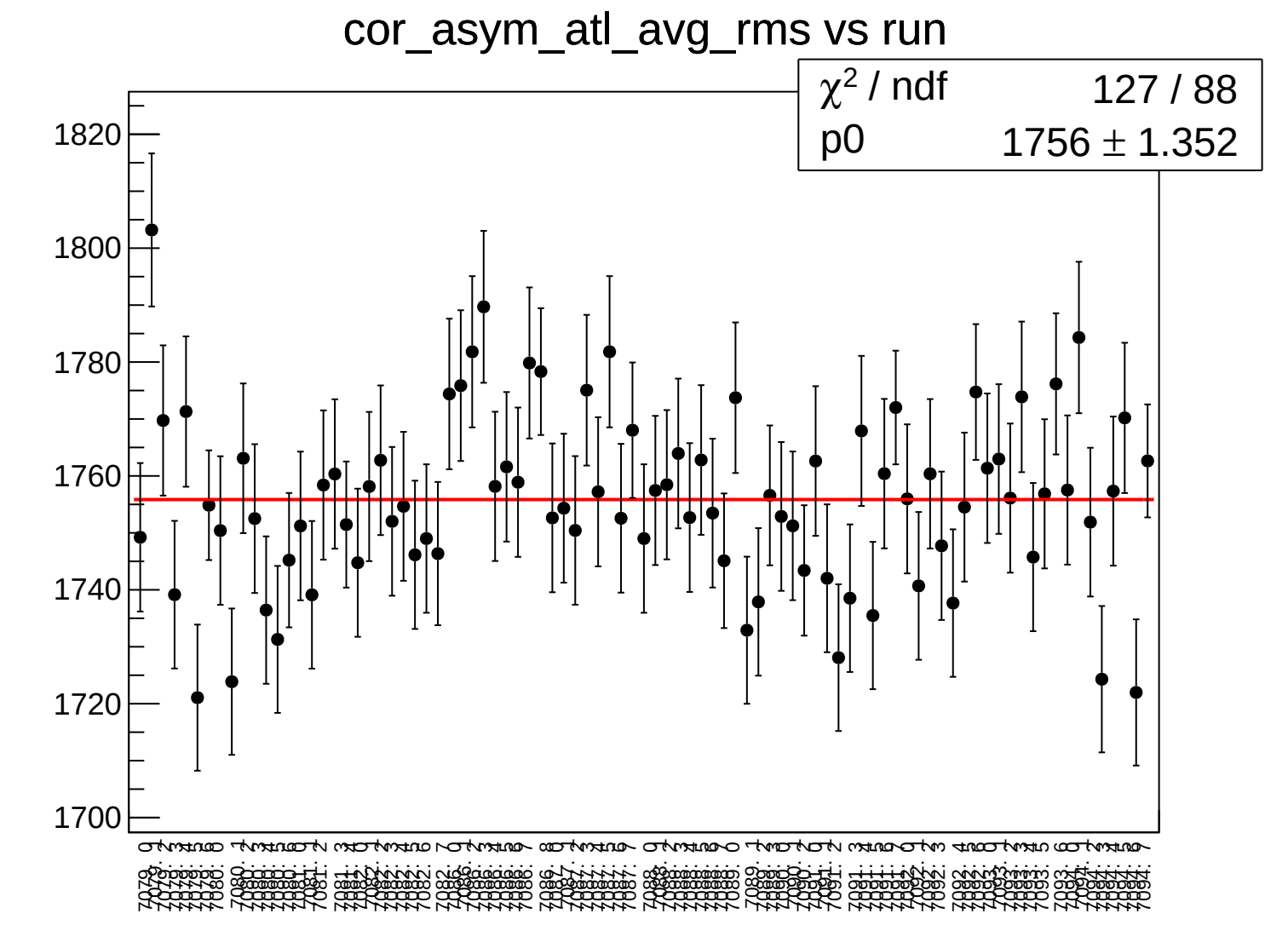

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 66.96 / 88
p0 −1752 ± 6739
pull
Entries 89
Mean −356.9
Std Dev 0

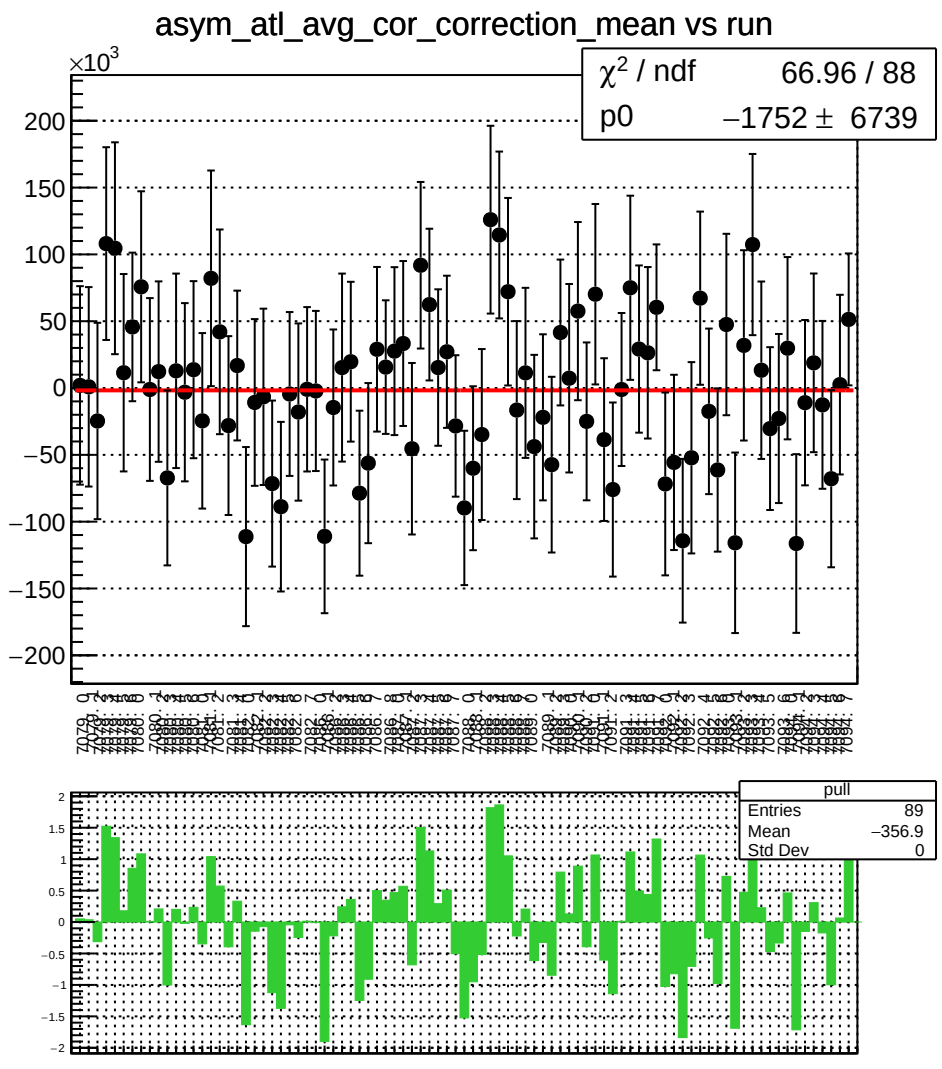

pull1D
Entries 89
Mean 0.003955
Std Dev 0.8674

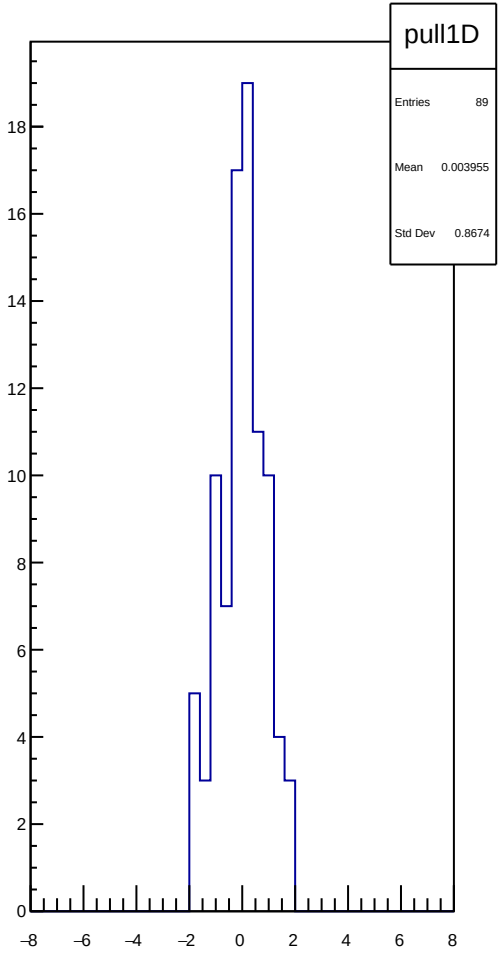

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 9827 / 88
p0 6170 ± 4.765
7500
7000
6500
6000
5500

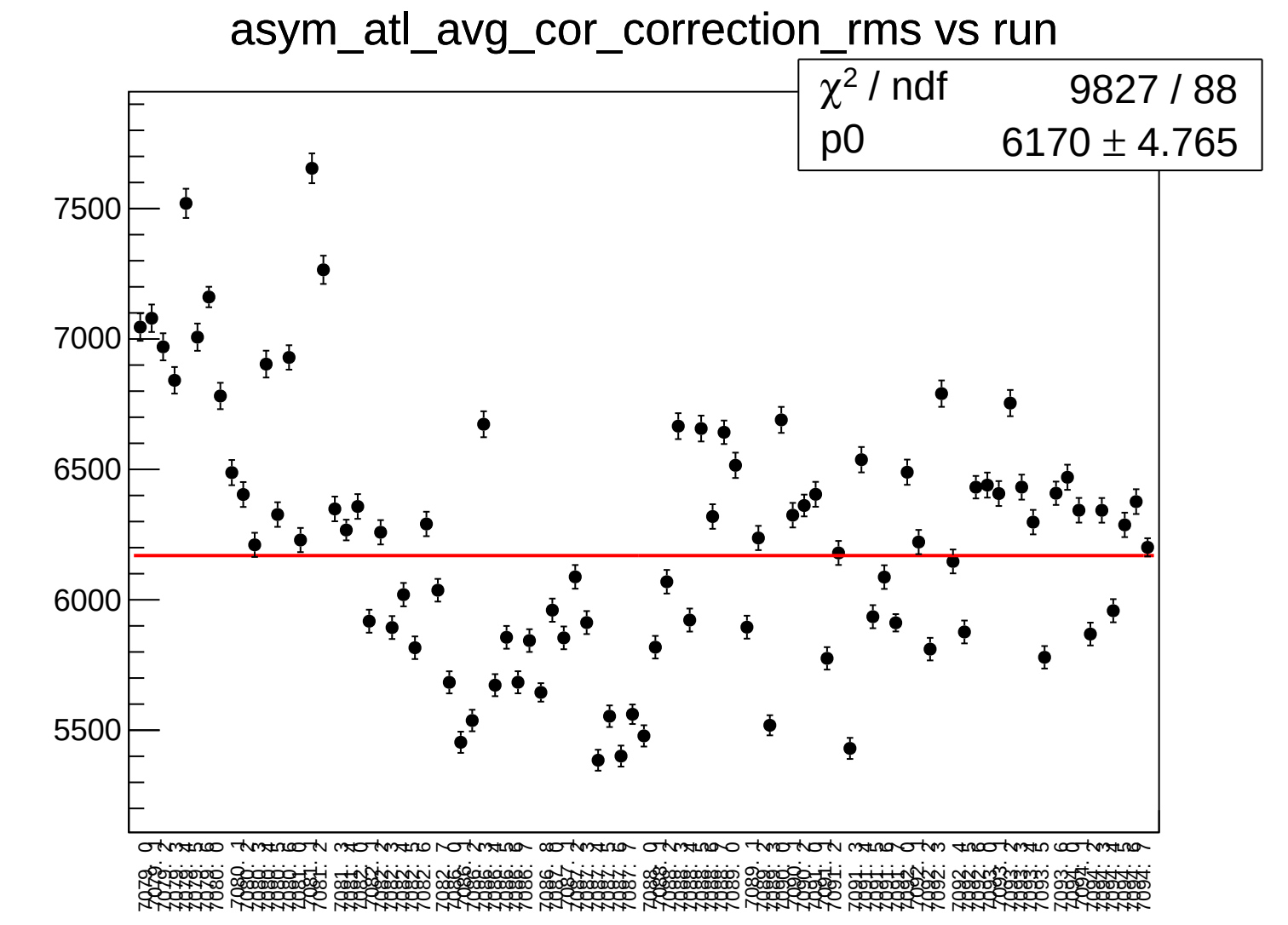

cor_asym_atl_avg_mean vs run
χ² / ndf 100.1 / 88
p0 791.6 ± 1912
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 44.98
Std Dev 0
2
1
0
−1
−2

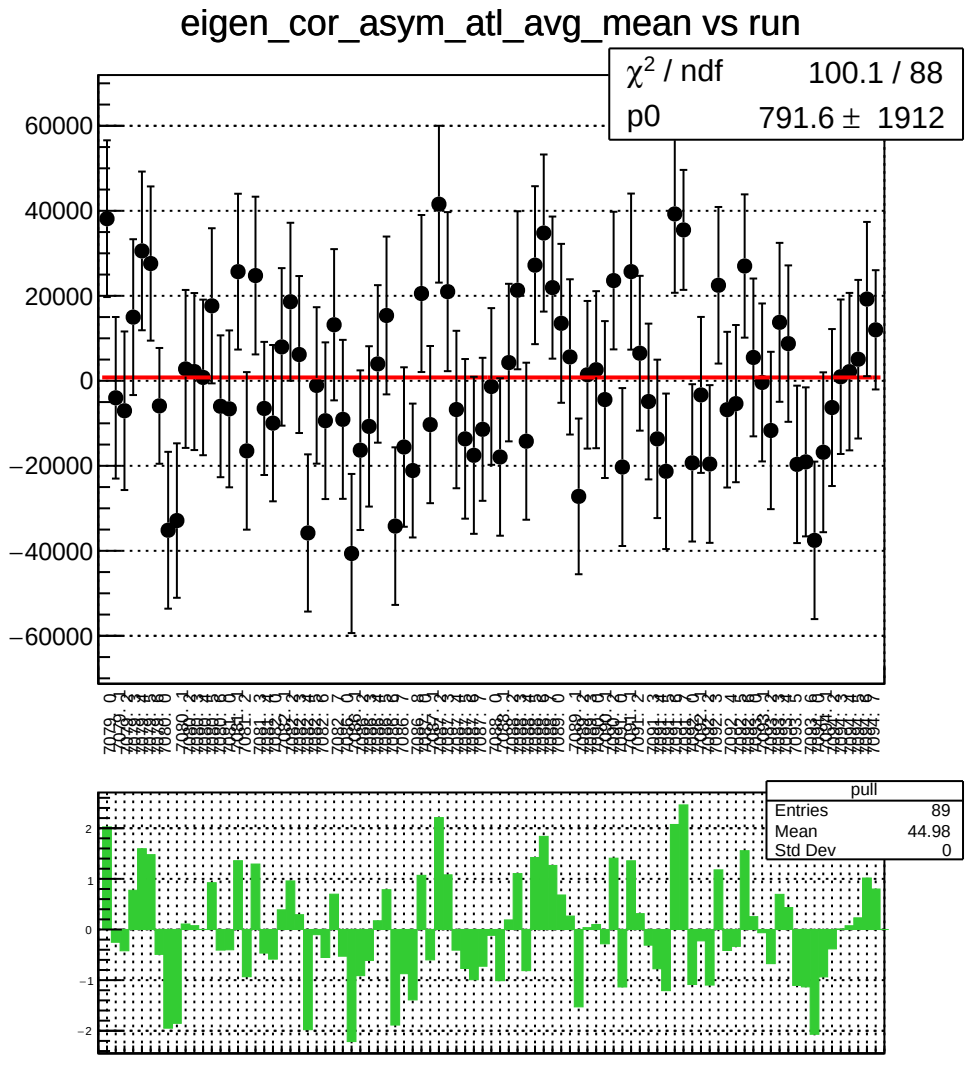

pull1D
Entries 89
Mean −0.01065
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

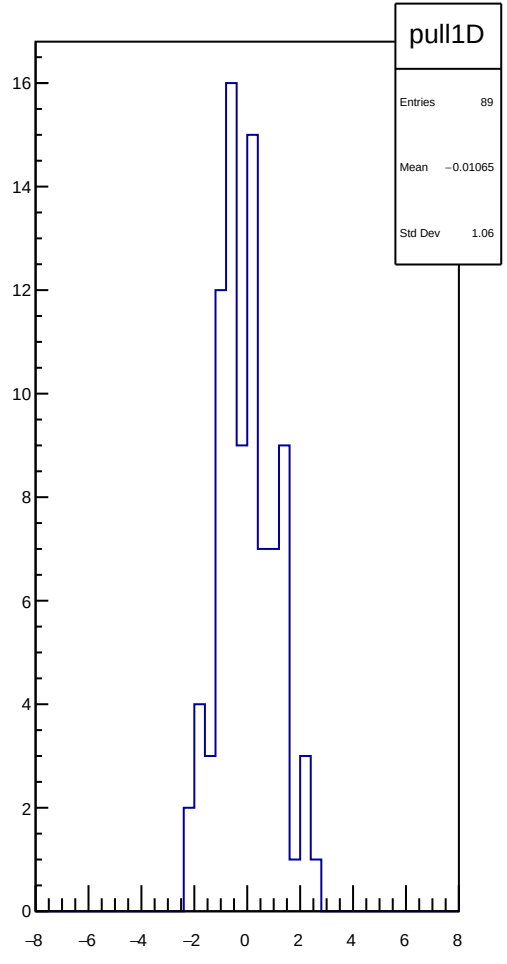

cor_asym_atl_avg_rms vs run
χ^2 / ndf 127 / 88
p0 1756 ± 1.352
1820
1800
1780
1760
1740
1720
1700

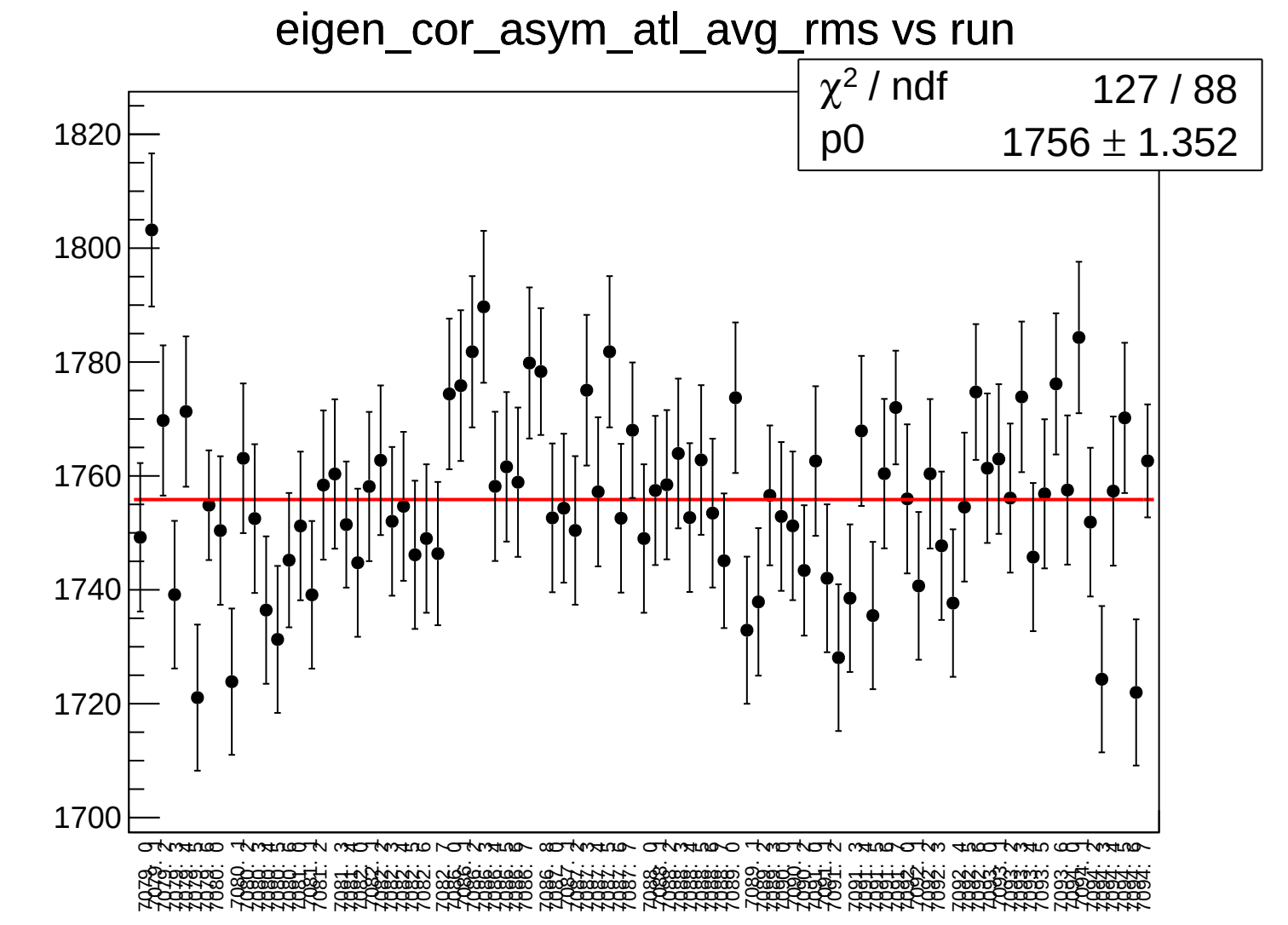

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 66.96 / 88
p0 −1752 ± 6739
pull
Entries 89
Mean −356.9
Std Dev 0

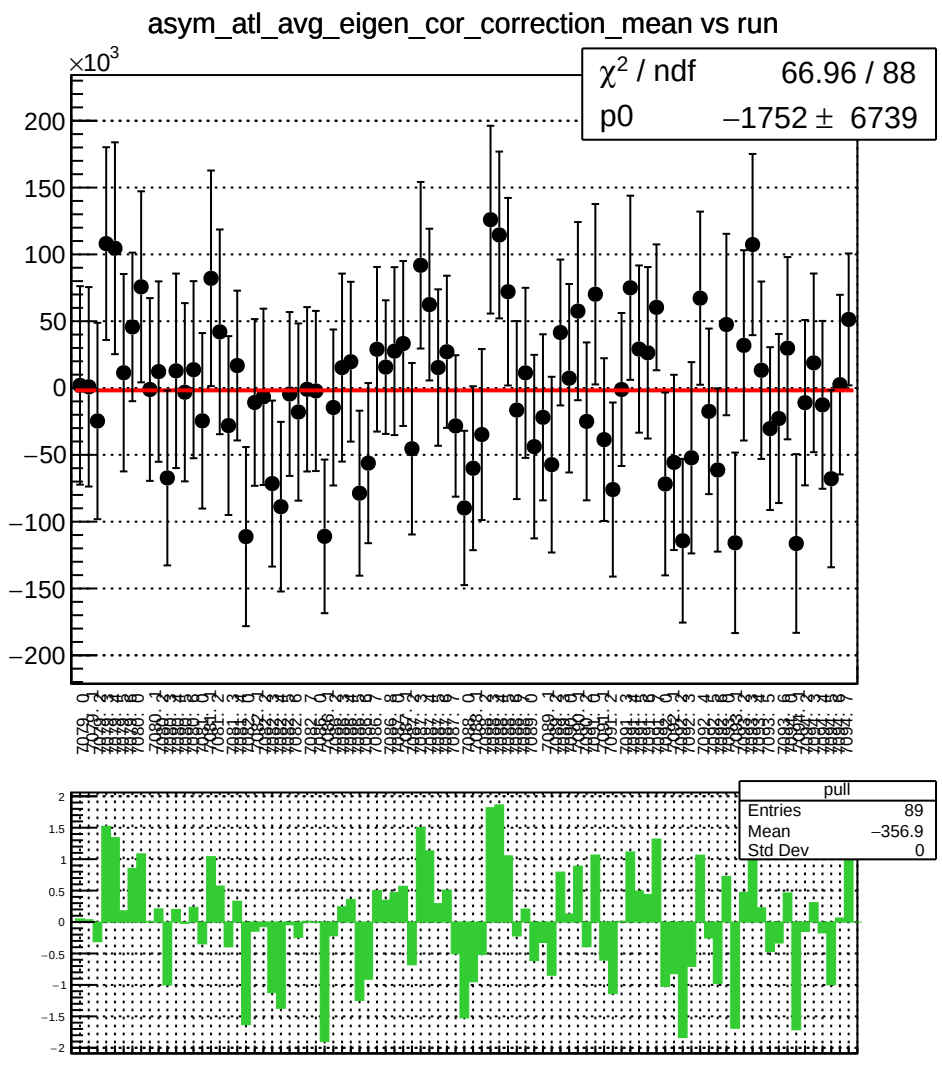

pull1D
Entries 89
Mean 0.003955
Std Dev 0.8674

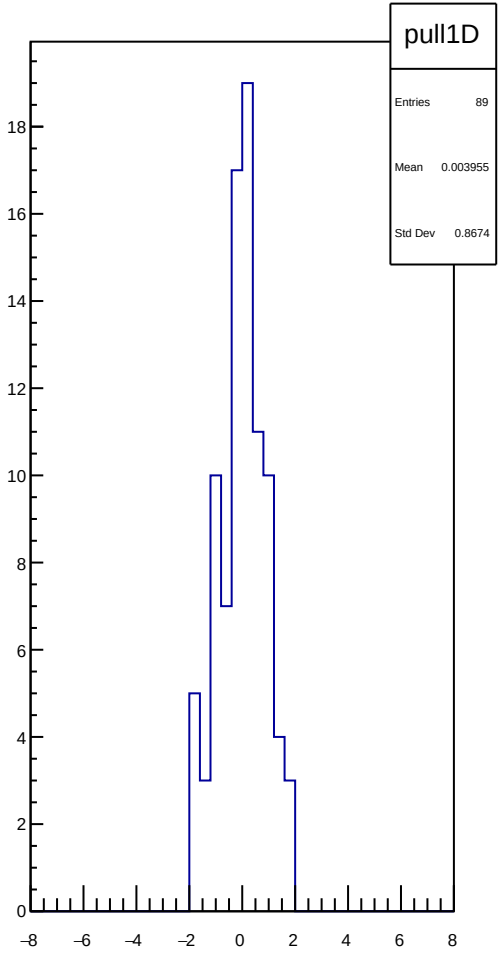

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 9827 / 88
p0 6170 ± 4.765
7500
7000
6500
6000
5500

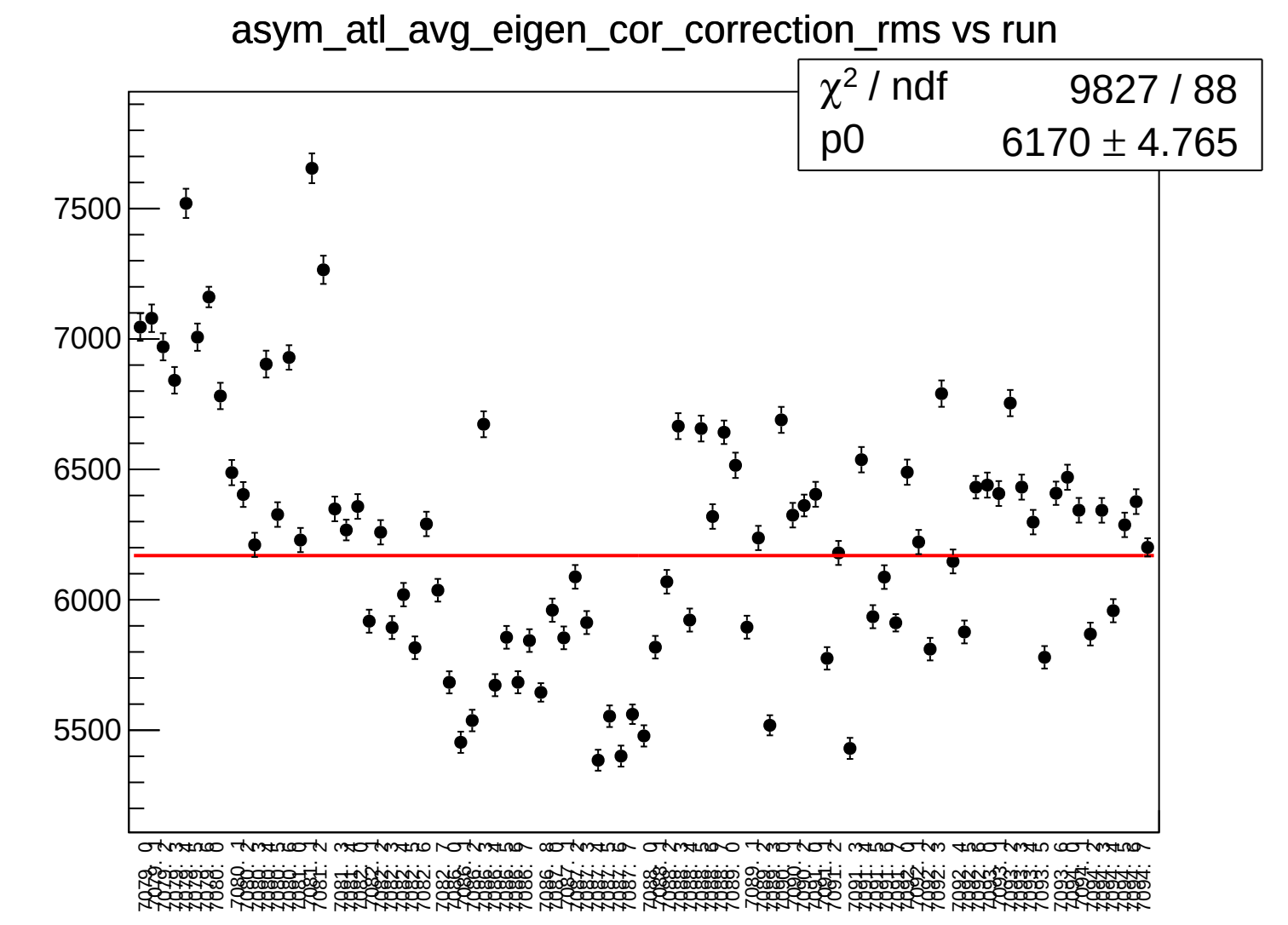

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 100.1 / 88
p0 791.6 ± 1912
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 44.98
Std Dev 0
2
1
0
−1
−2

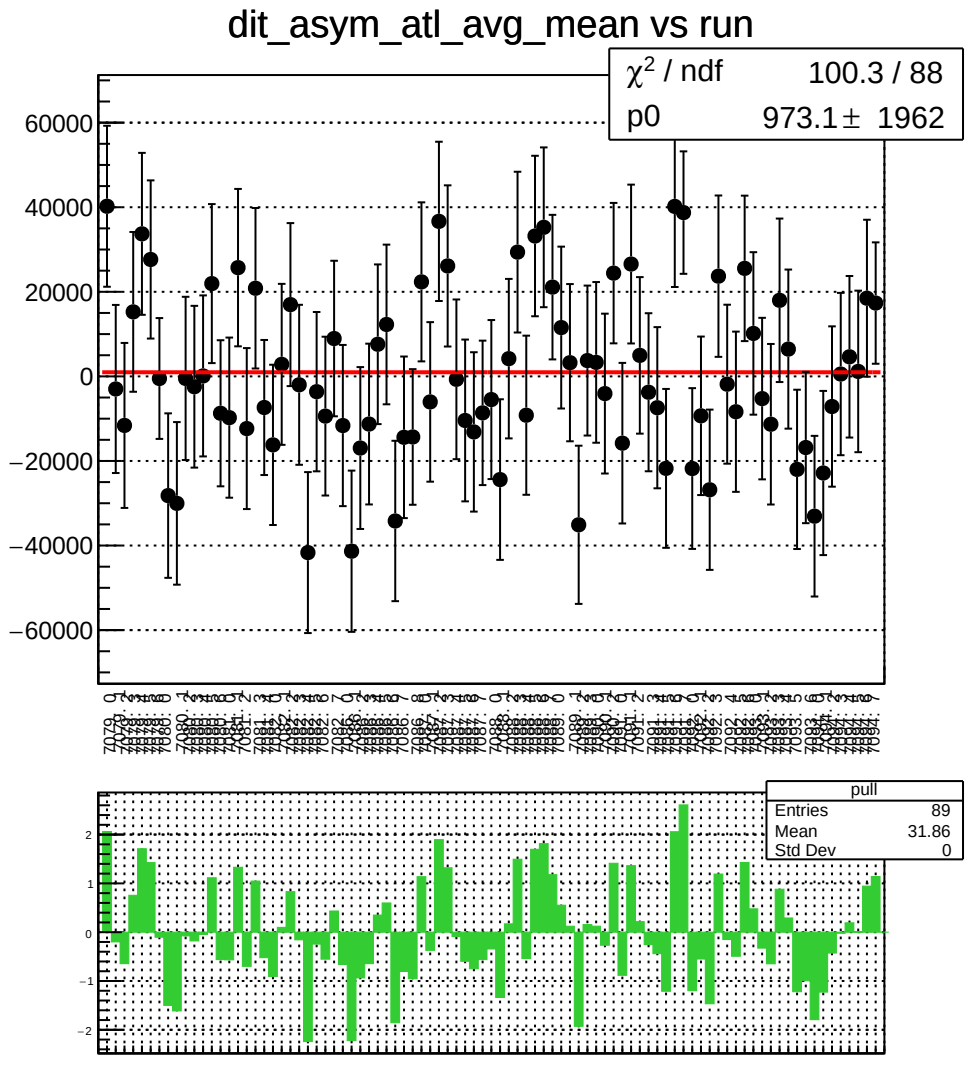

pull1D
Entries 89
Mean −0.01065
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

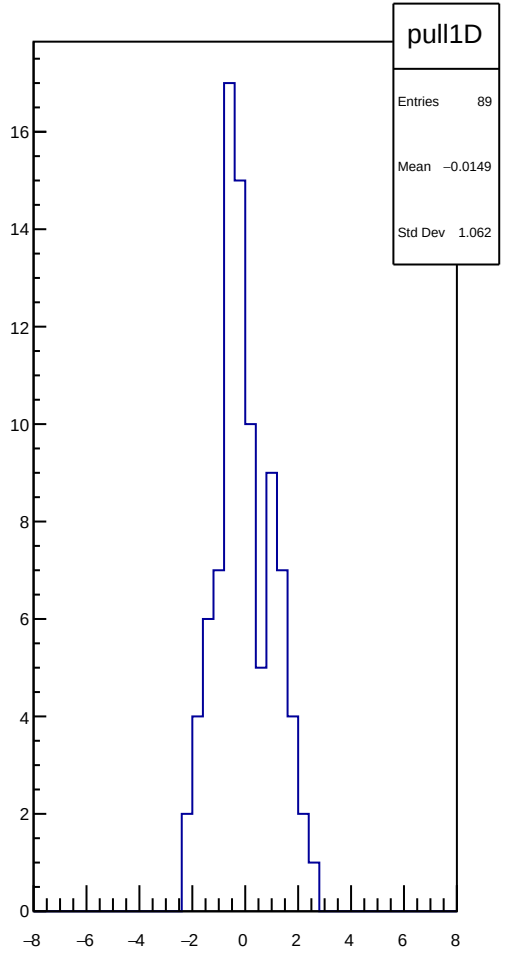

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 127 / 88
p0 1756 ± 1.352
1820
1800
1780
1760
1740
1720
1700

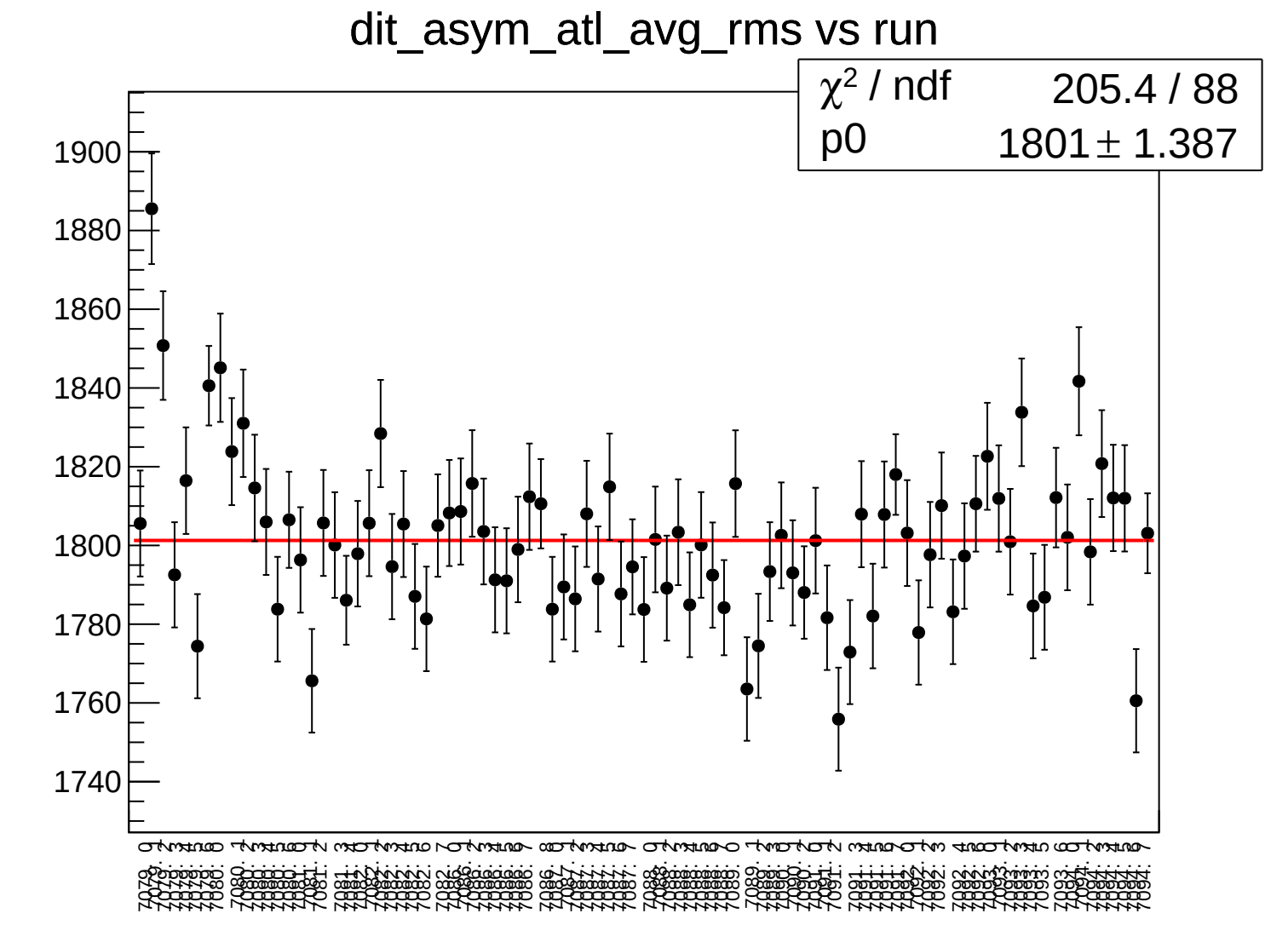

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.96 / 88
p0 −1752 ± 6739
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −356.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

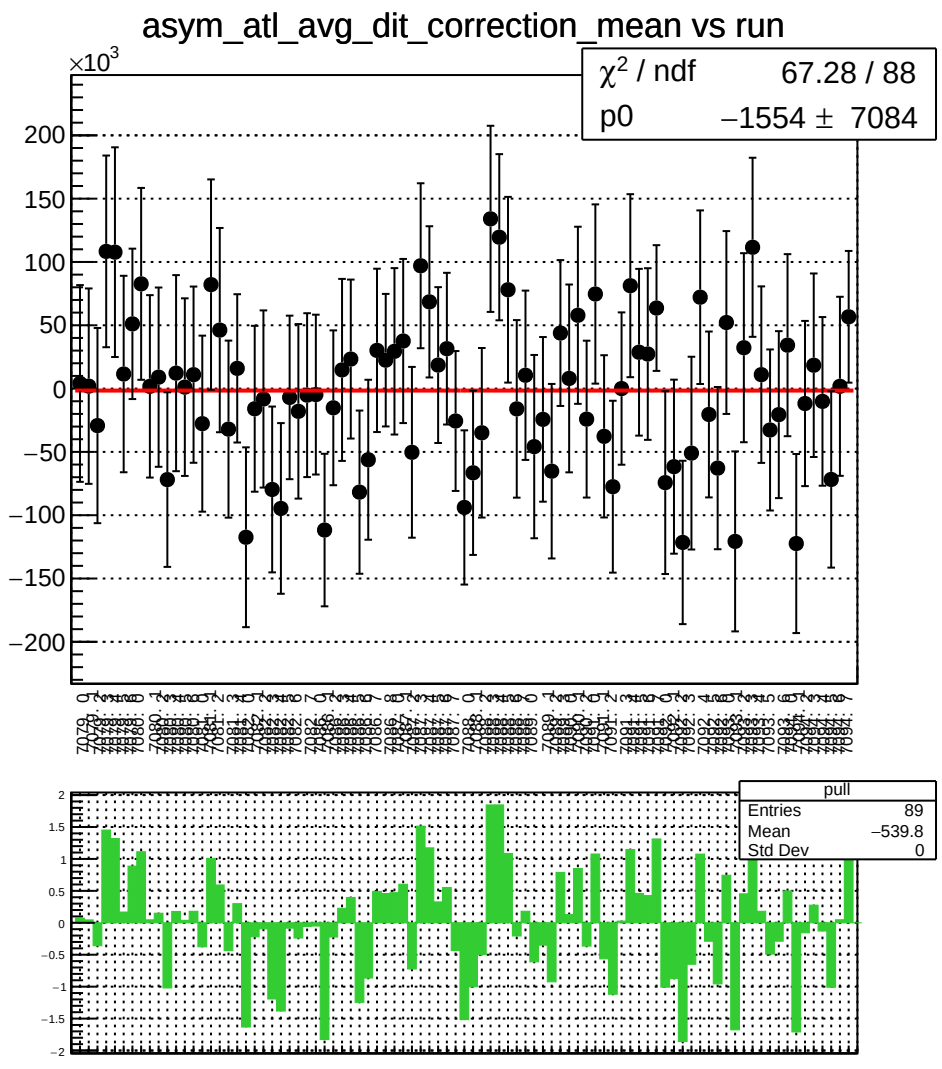

pull1D
Entries 89
Mean 0.003955
Std Dev 0.8674
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

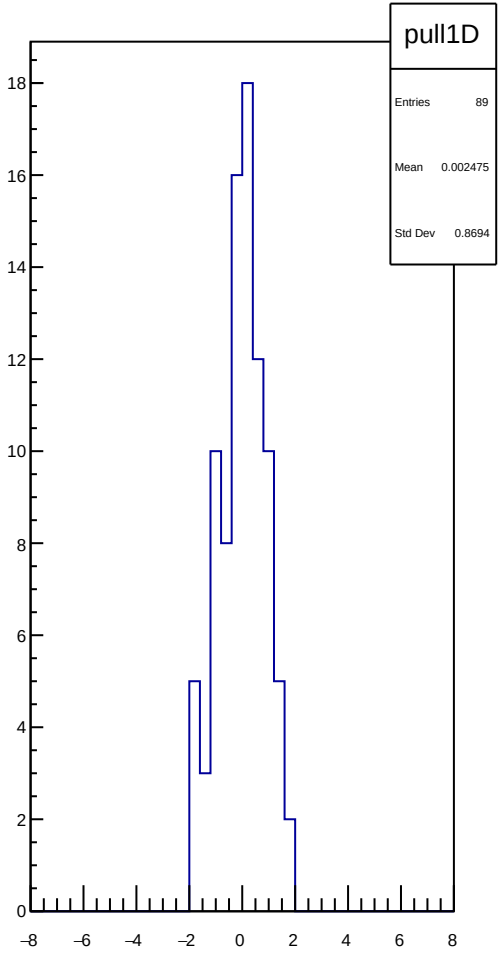

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9827 / 88
p0 6170 ± 4.765
7500
7000
6500
6000
5500

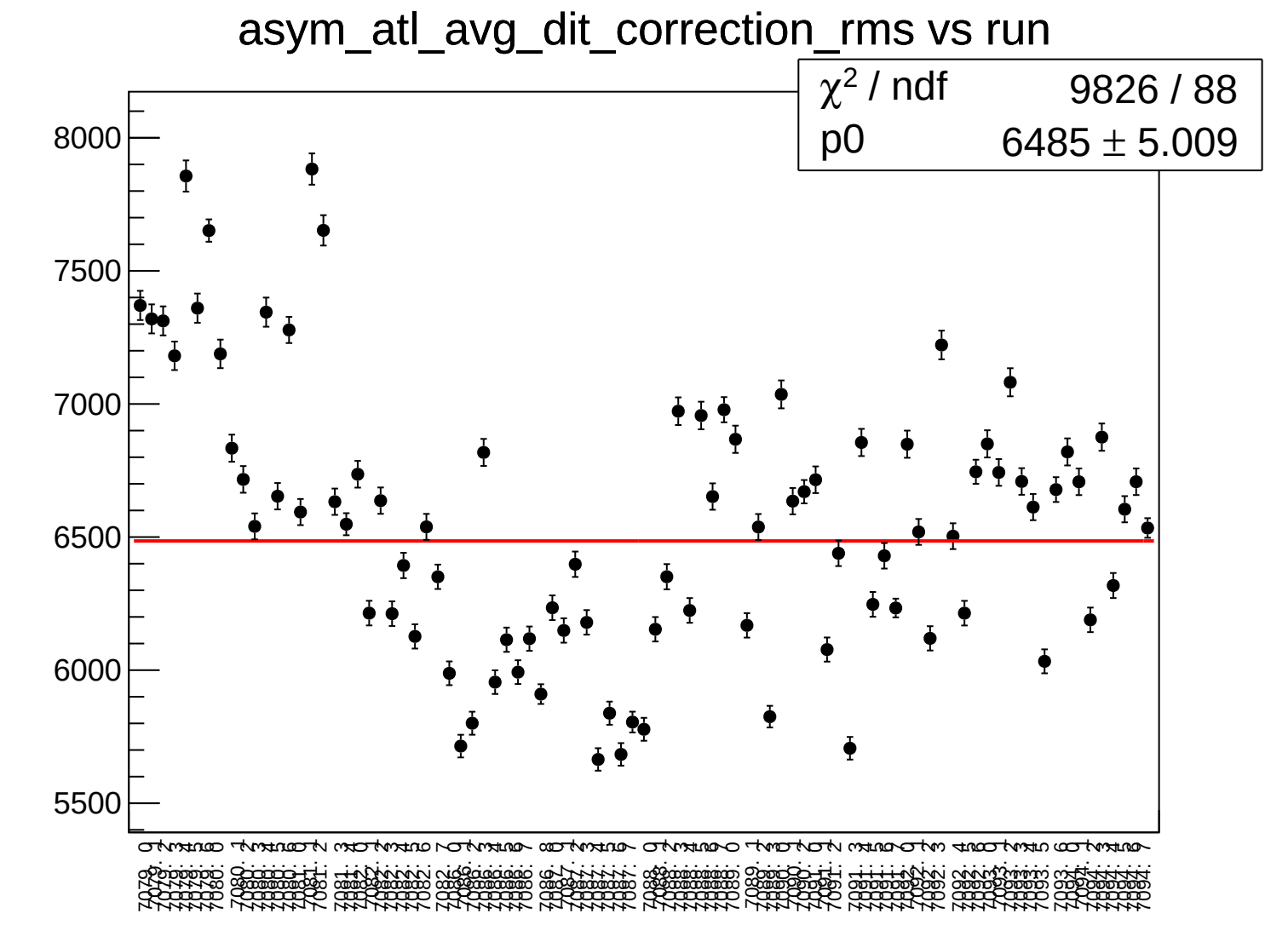

dit_asym_atl_avg_mean vs run
χ² / ndf 100.3 / 88
p0 973.1 ± 1962
pull
Entries 89
Mean 31.86
Std Dev 0

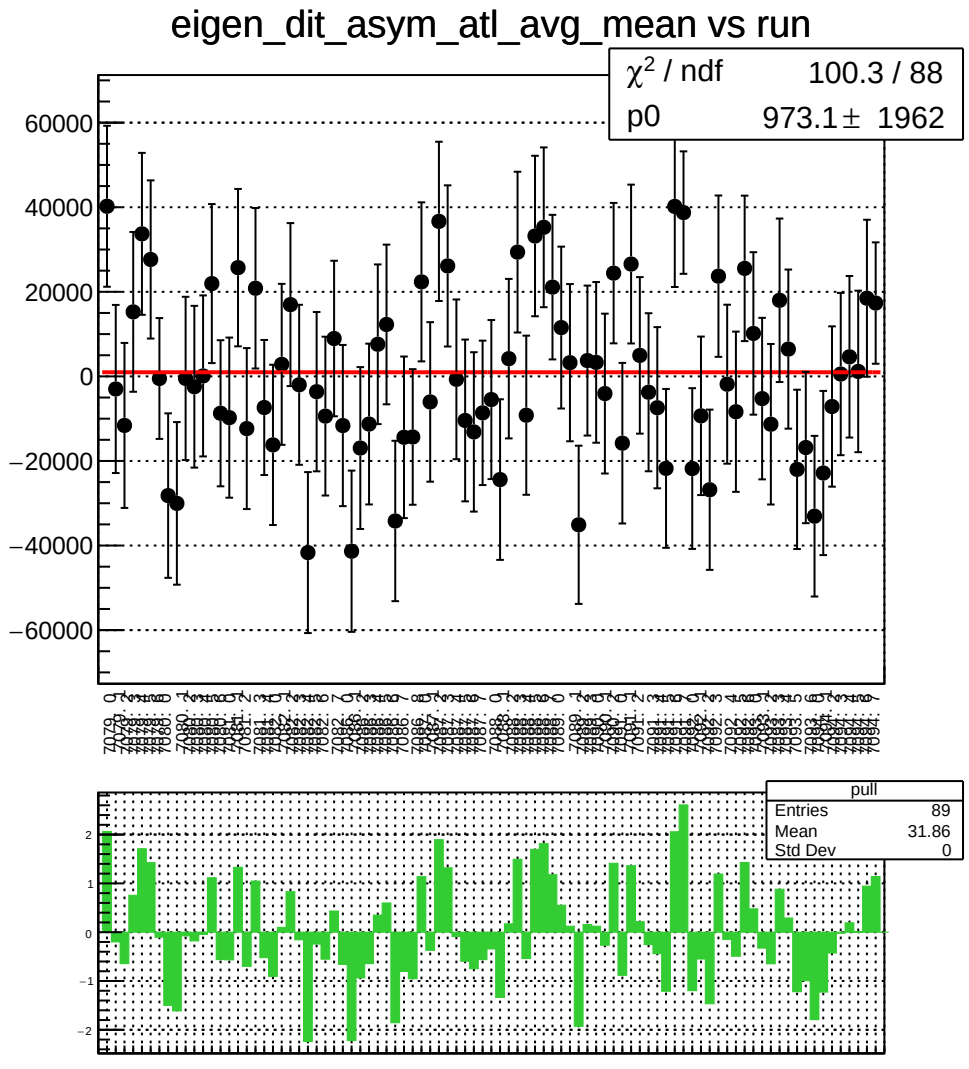

pull1D
Entries 89
Mean −0.0149
Std Dev 1.062

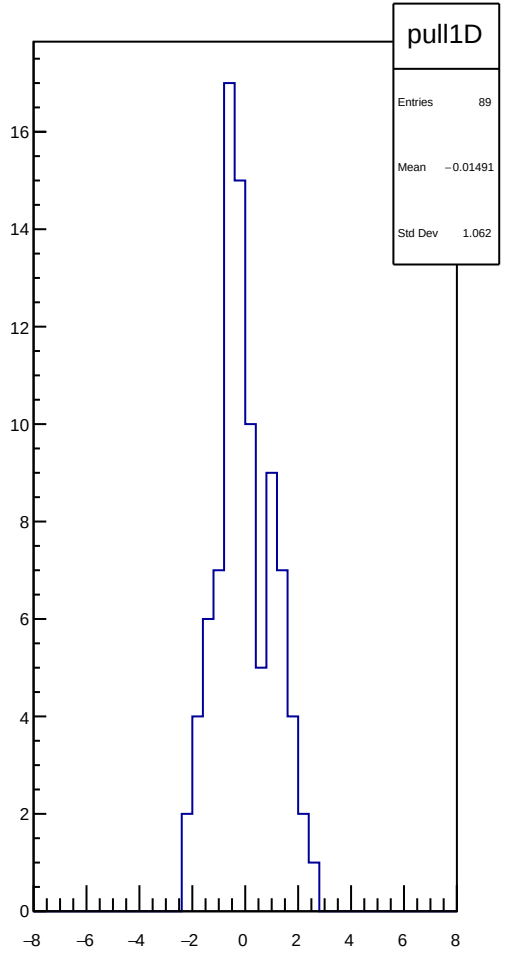

dit_asym_atl_avg_rms vs run
χ² / ndf 205.4 / 88
p0 1801 ± 1.387
1900
1880
1860
1840
1820
1800
1780
1760
1740

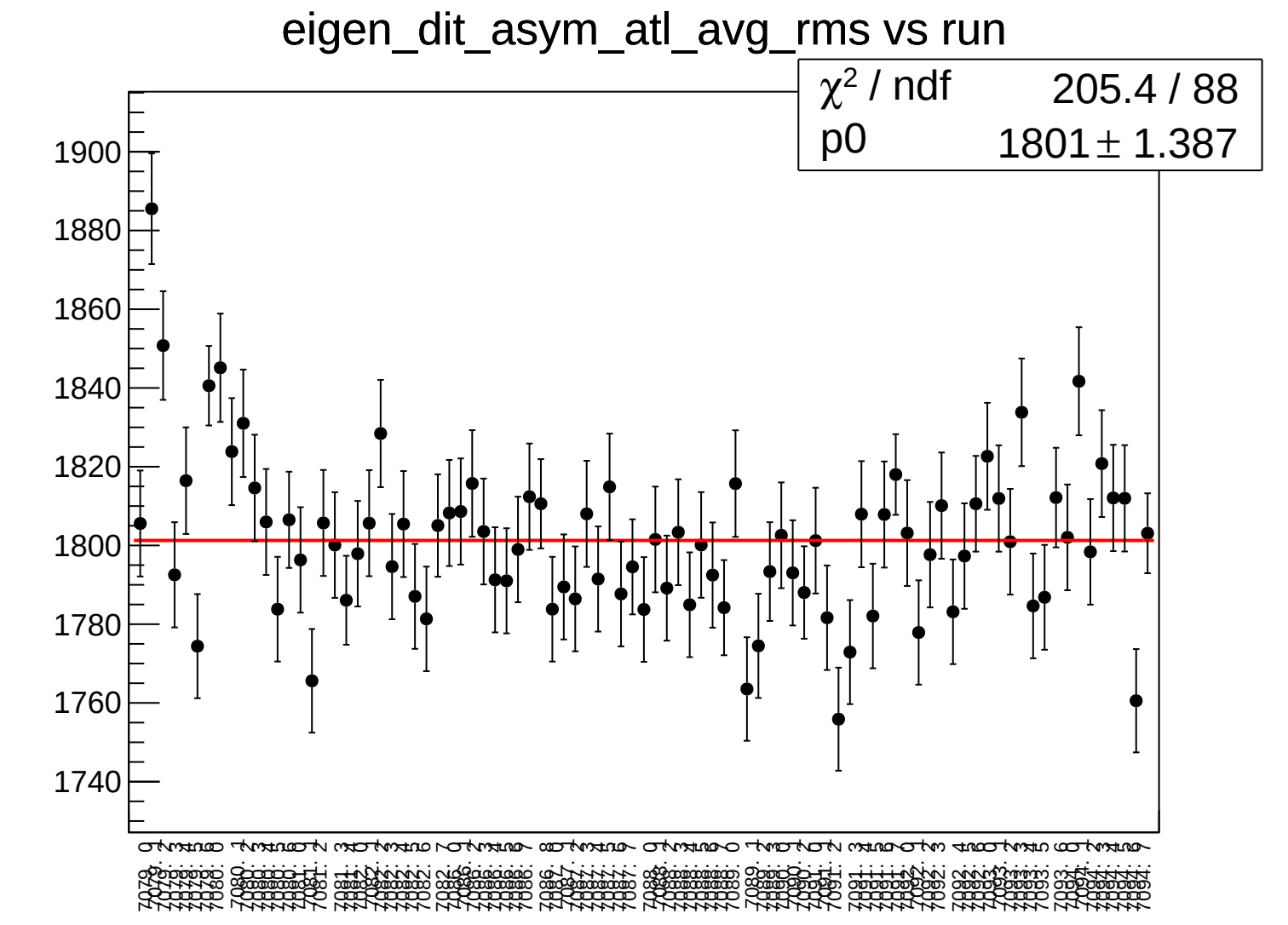

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 67.28 / 88
p0 −1554 ± 7084
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −539.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

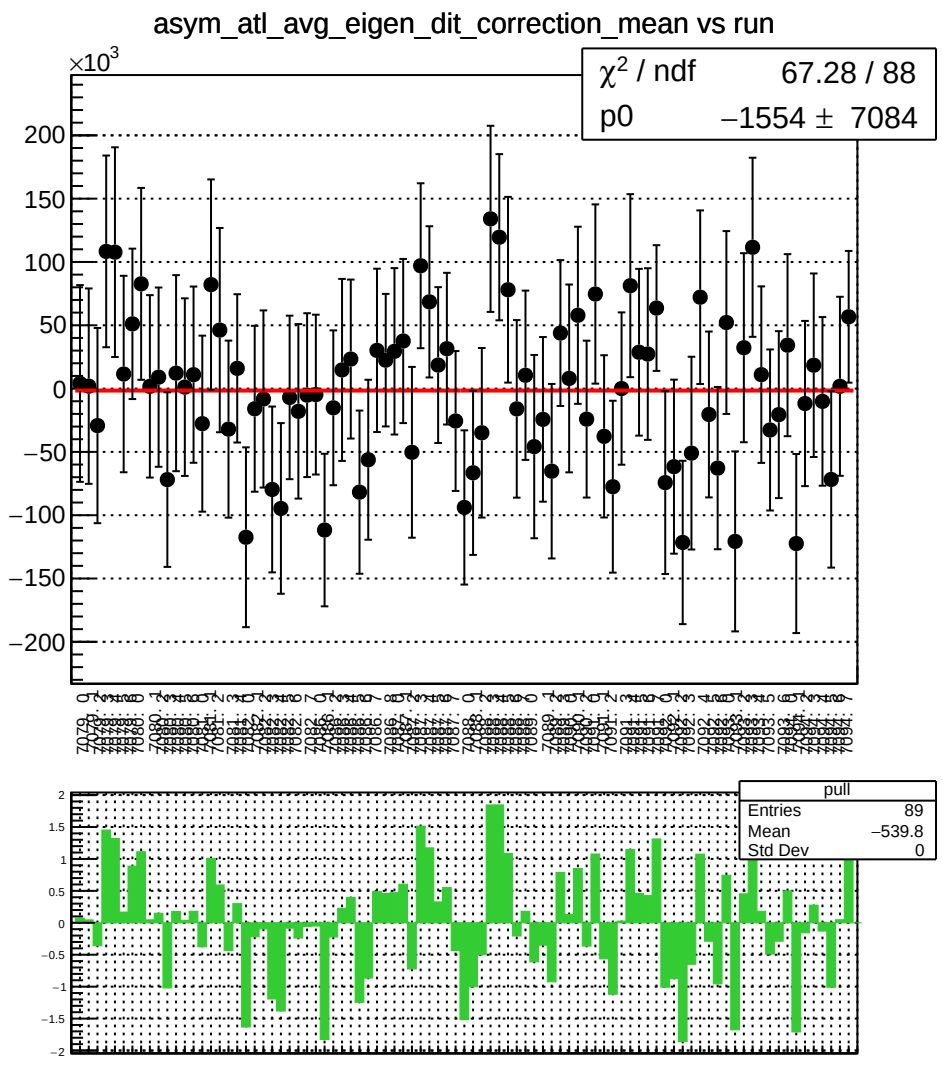

pull1D
Entries 89
Mean 0.002475
Std Dev 0.8694
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

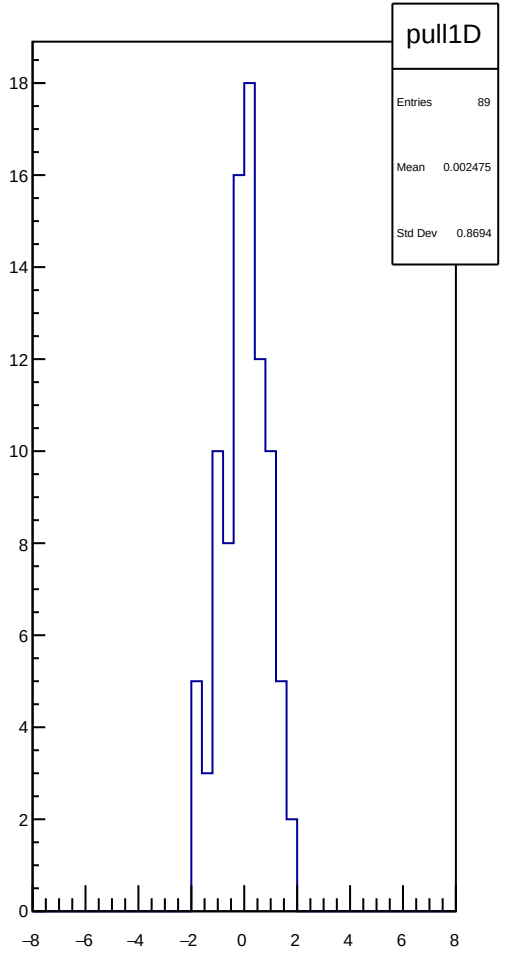

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 9826 / 88
p0 6485 ± 5.009
8000
7500
7000
6500
6000
5500

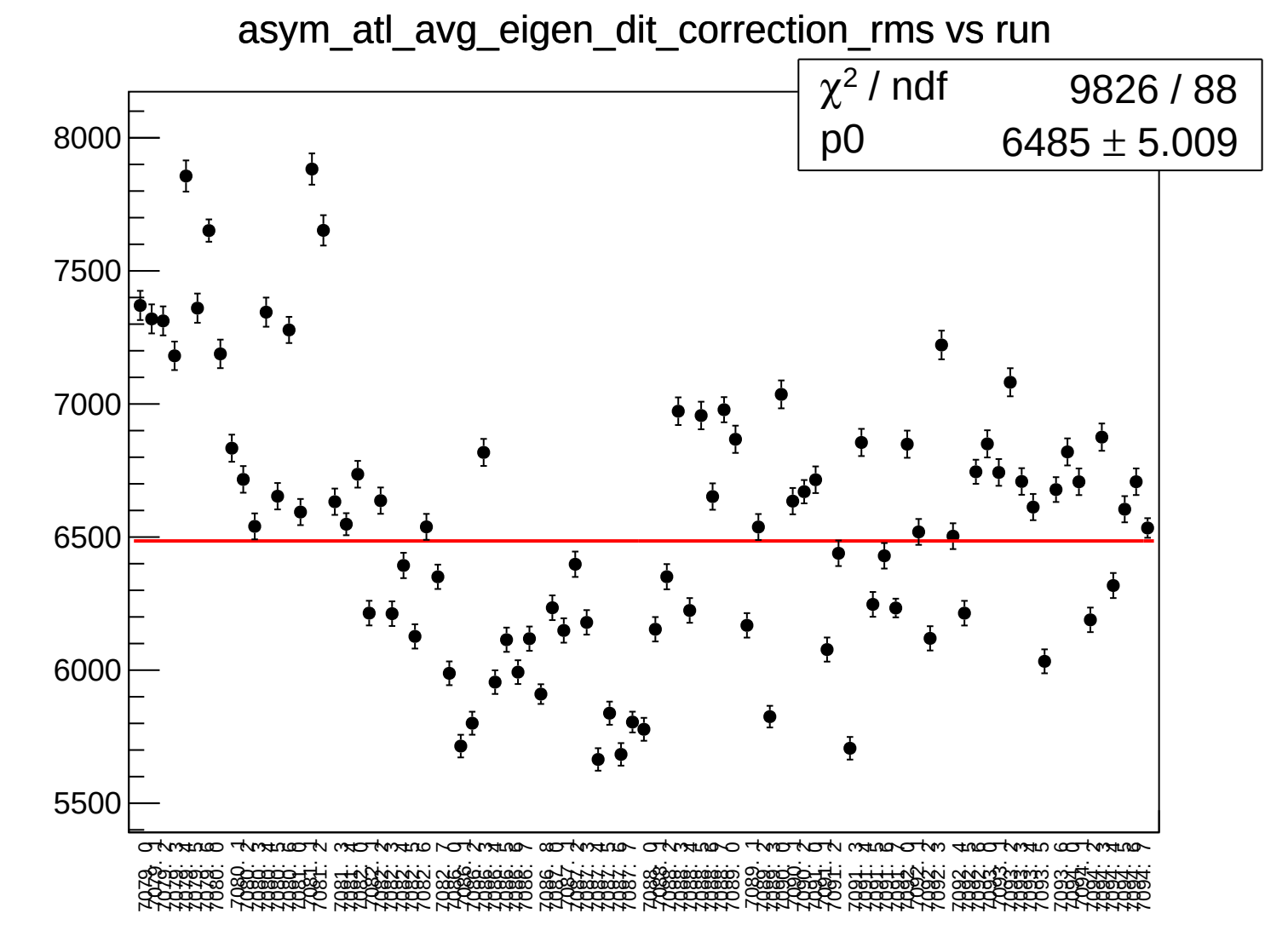

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 100.3 / 88
p0 973.1 ± 1962
pull
Entries 89
Mean 31.86
Std Dev 0

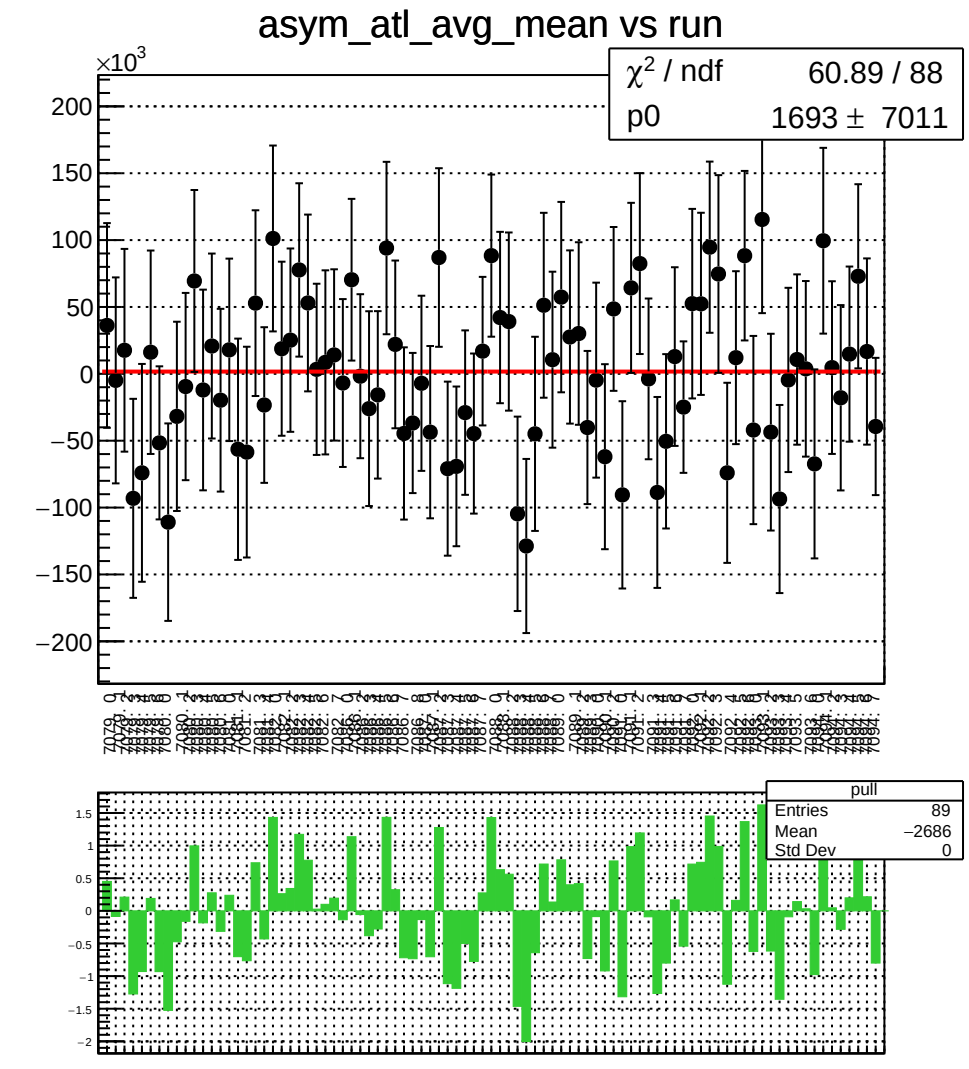

pull1D
Entries 89
Mean −0.01491
Std Dev 1.062

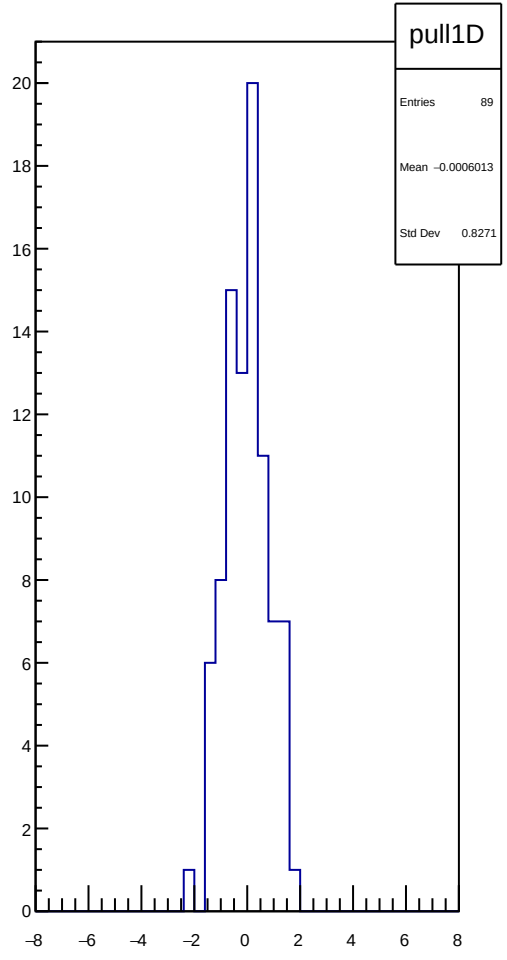

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 205.4 / 88
p0 1801 ± 1.387
1900
1880
1860
1840
1820
1800
1780
1760
1740

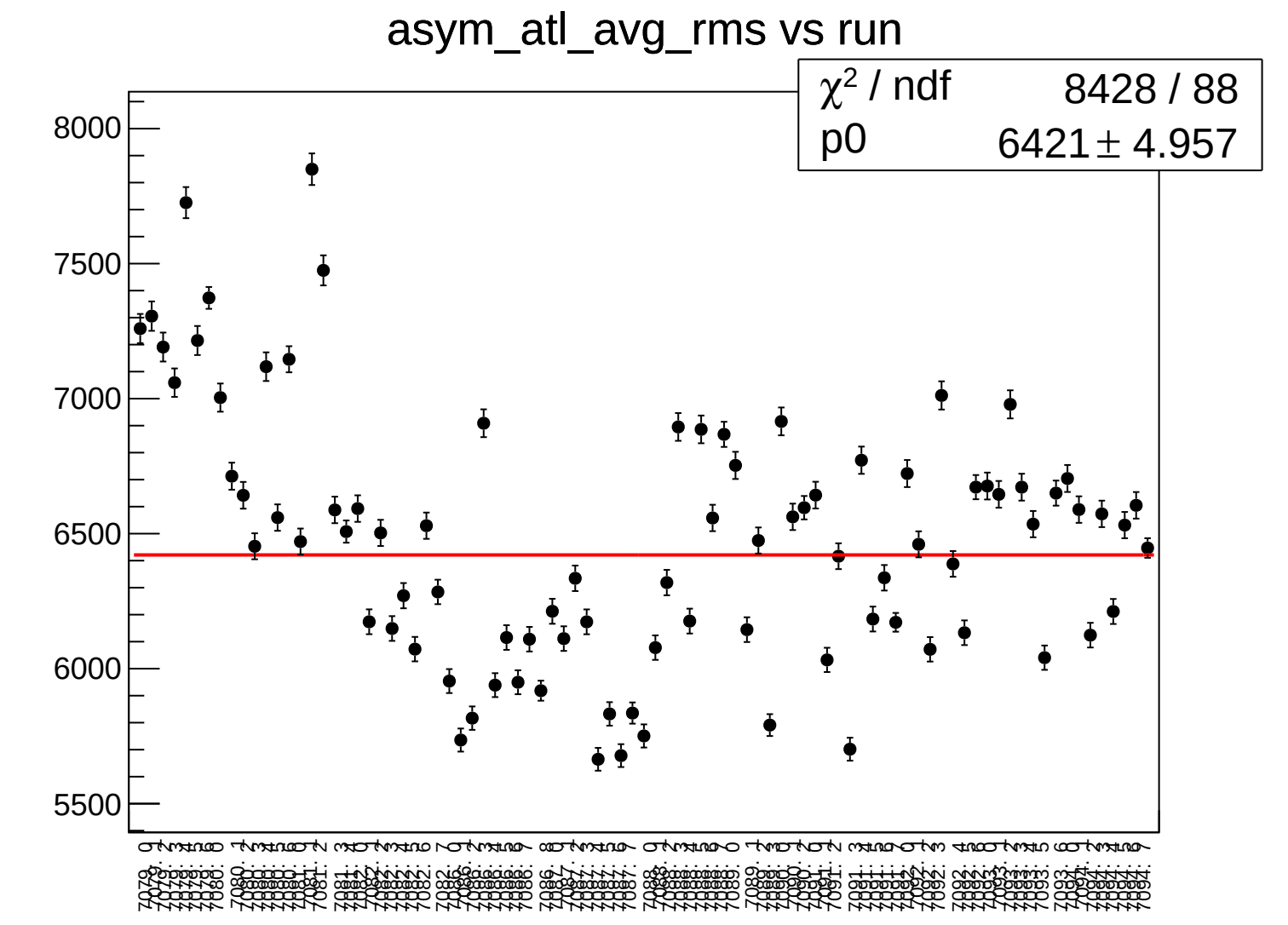

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.28 / 88
p0 −1554 ± 7084
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −539.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

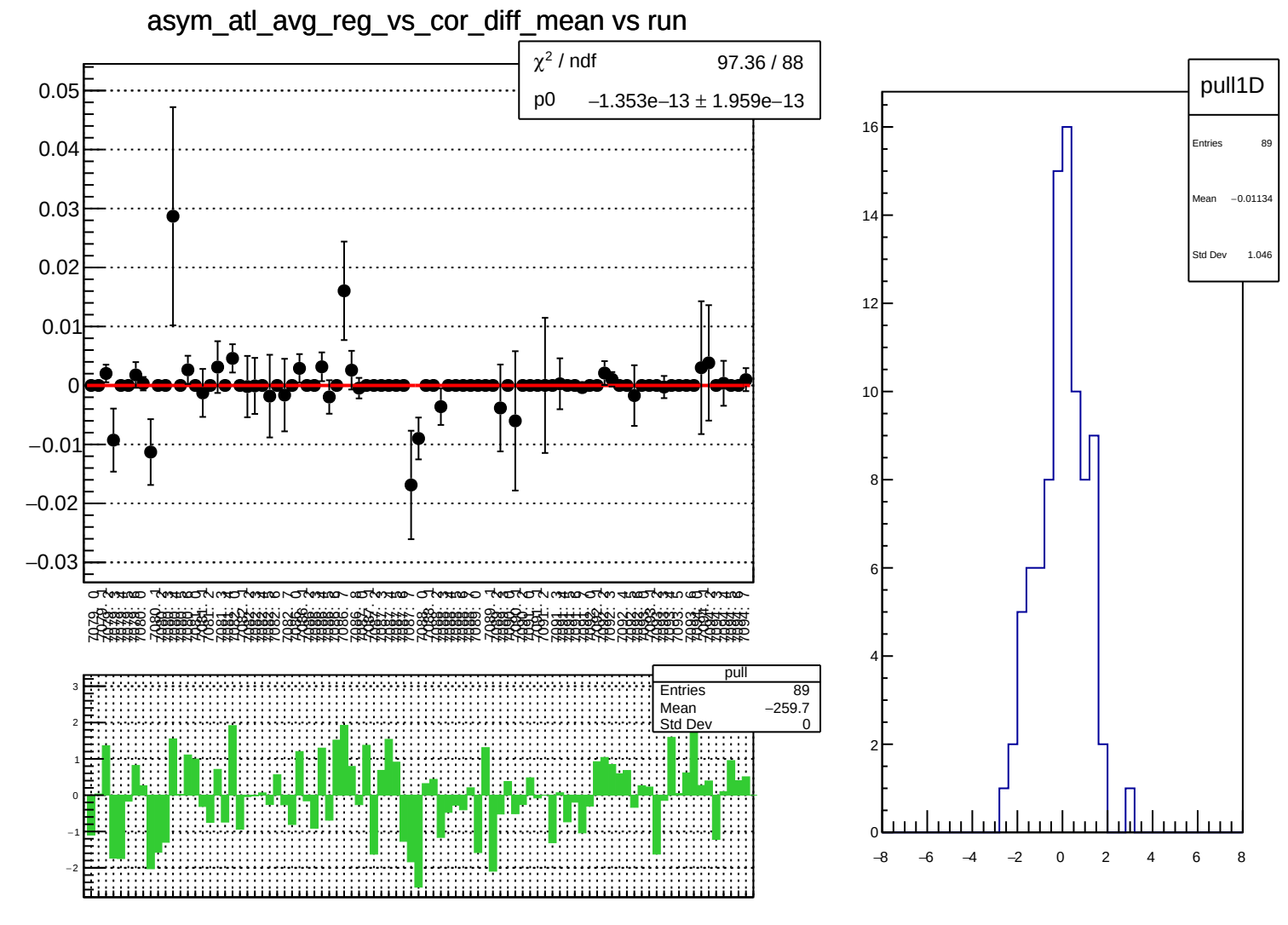

pull1D
Entries 89
Mean 0.002475
Std Dev 0.8694
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

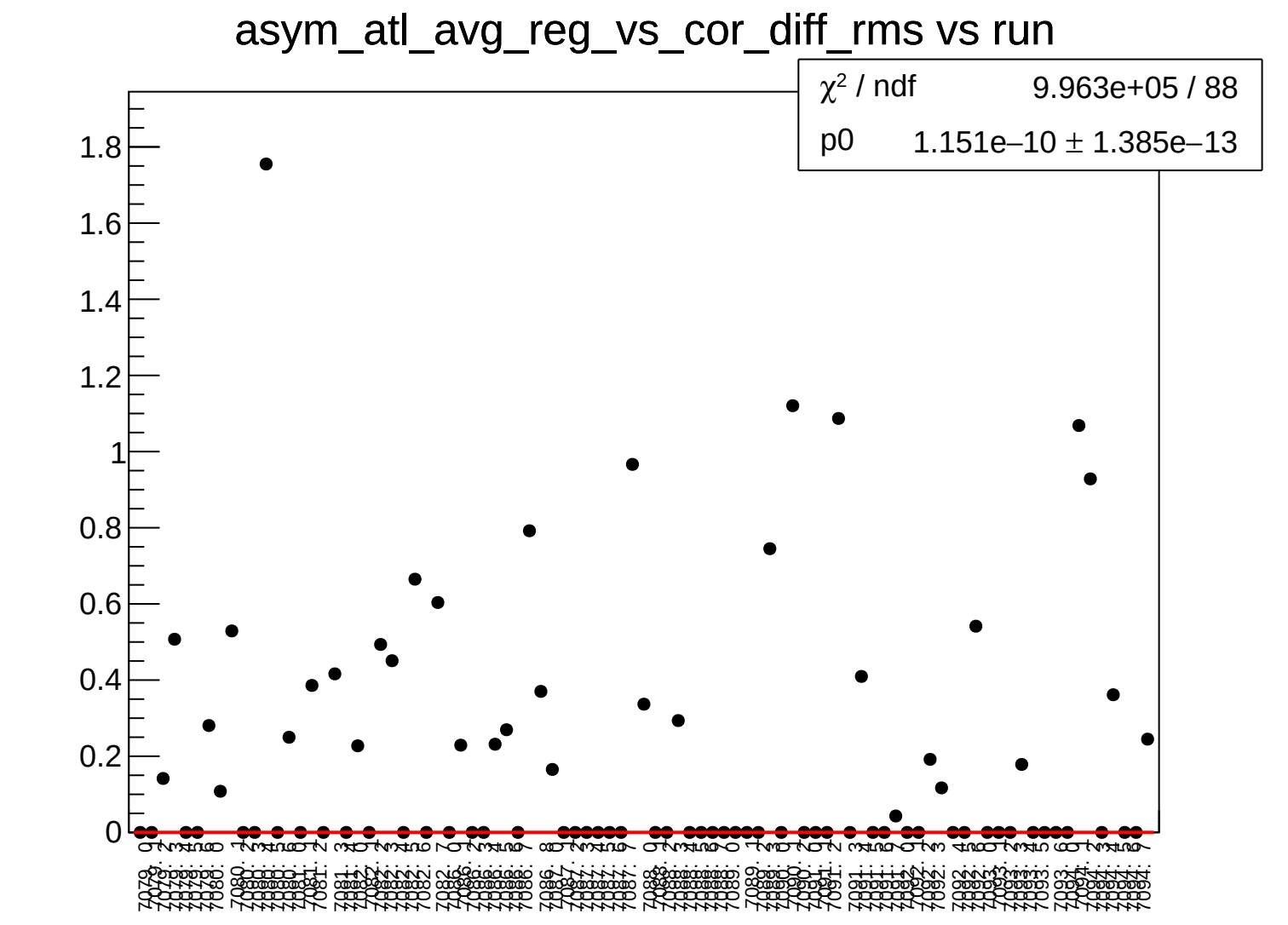

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 9826 / 88
p0 6485 ± 5.009
8000
7500
7000
6500
6000
5500

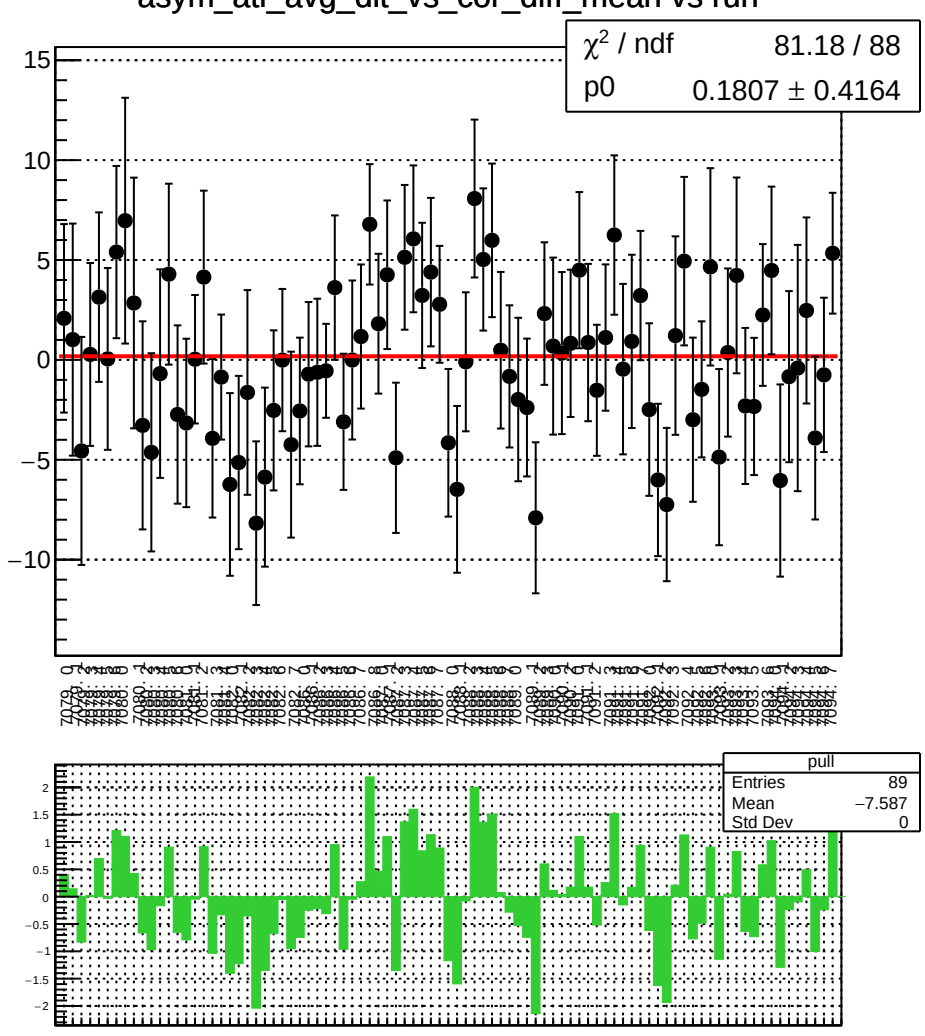

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 60.89 / 88
p0 1693 ± 7011
pull
Entries 89
Mean −2686
Std Dev 0

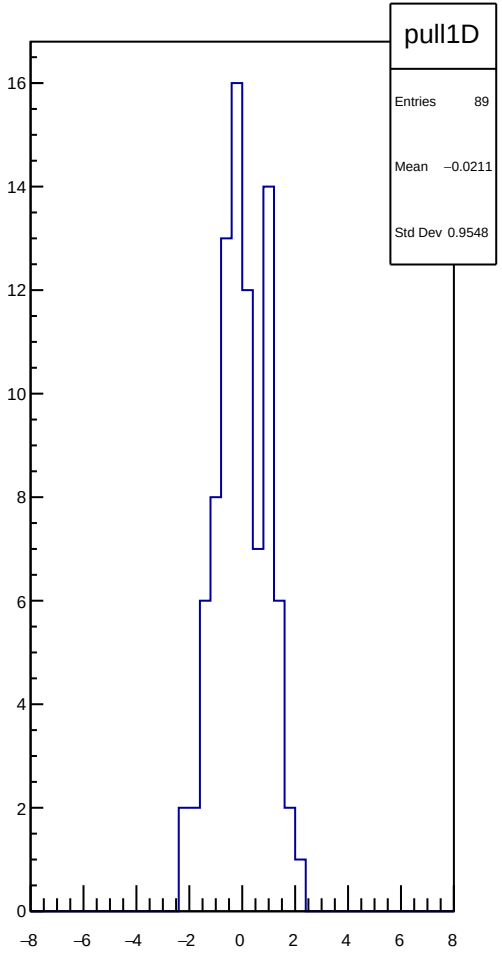

pull1D
Entries 89
Mean −0.0006013
Std Dev 0.8271

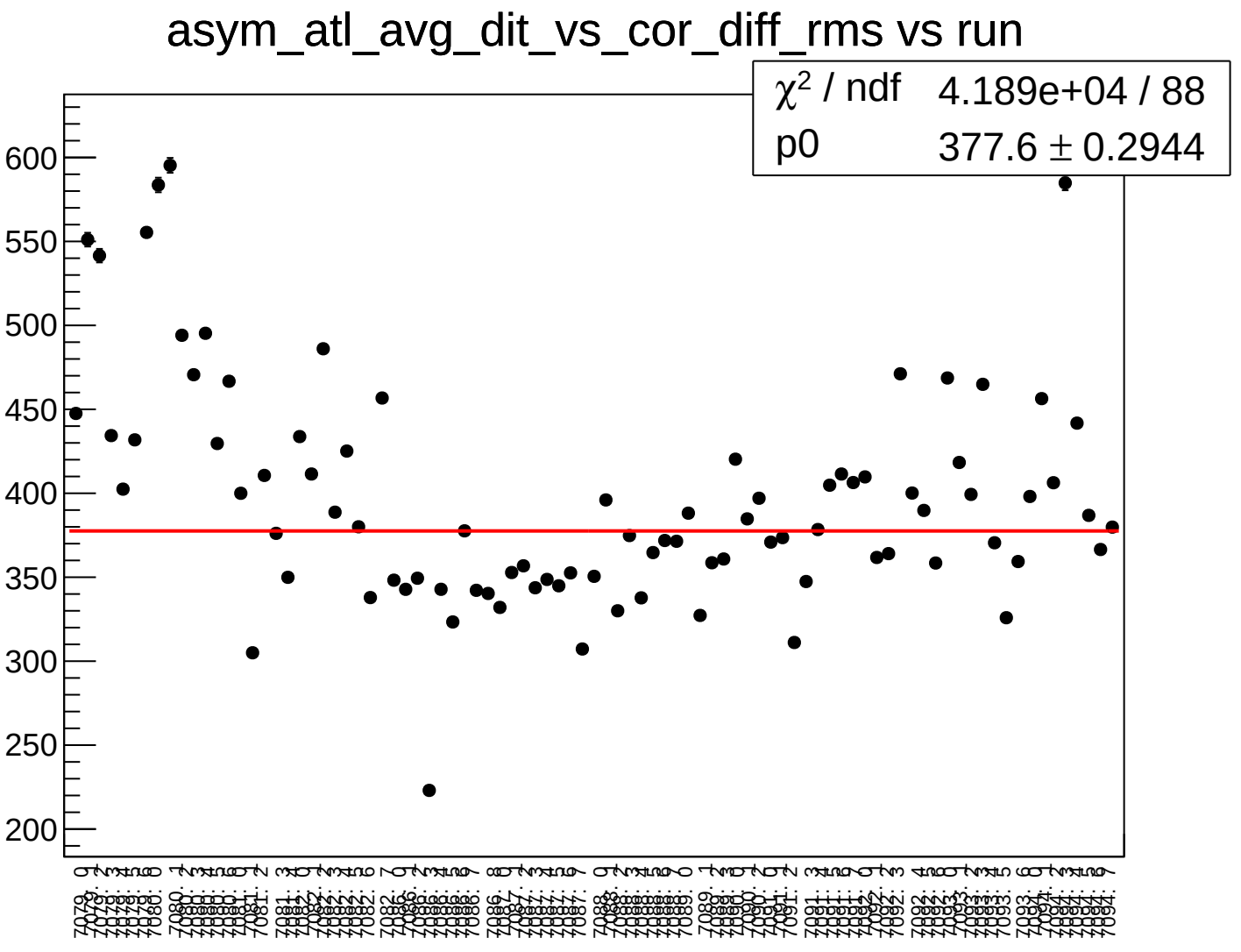

asym_atl_avg_rms vs run
χ² / ndf 8428 / 88
p0 6421 ± 4.957
8000
7500
7000
6500
6000
5500

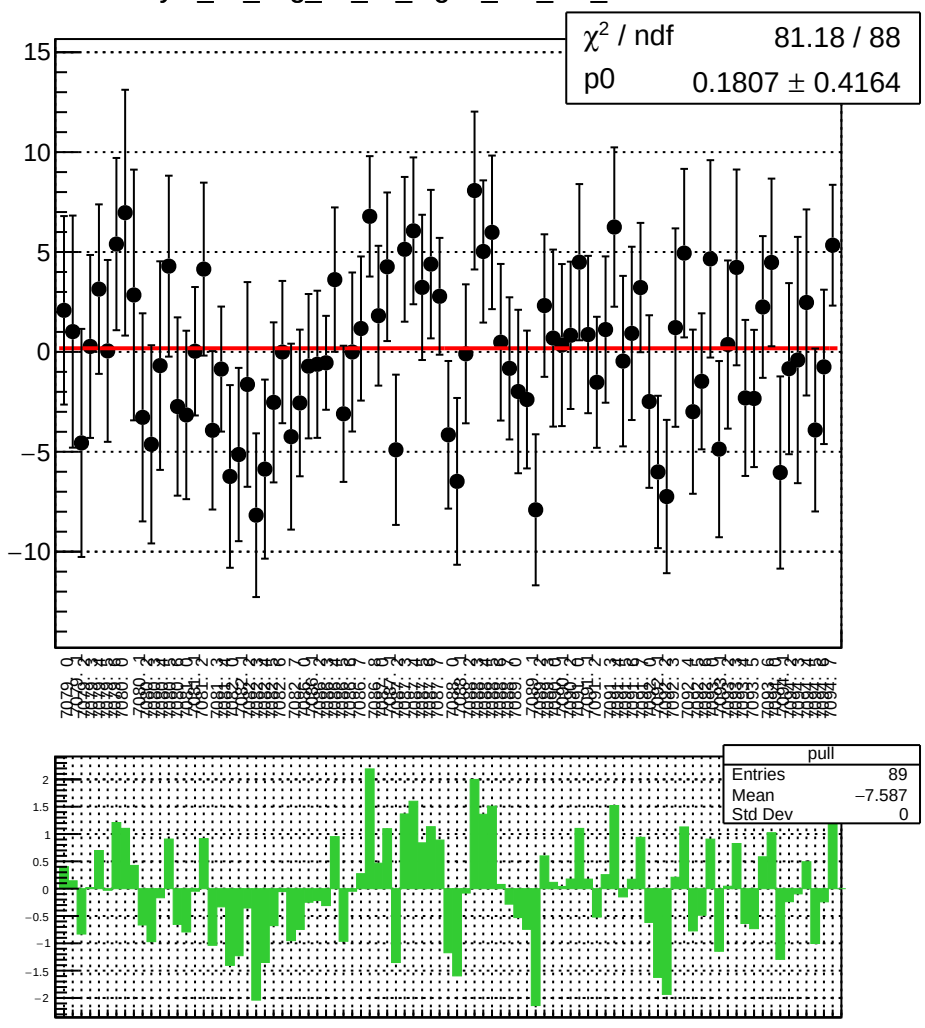

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.36 / 88
p0 −1.353e−13 ± 1.959e−13
pull
Entries 89
Mean −259.7
Std Dev 0
pull1D
Entries 89
Mean −0.01134
Std Dev 1.046

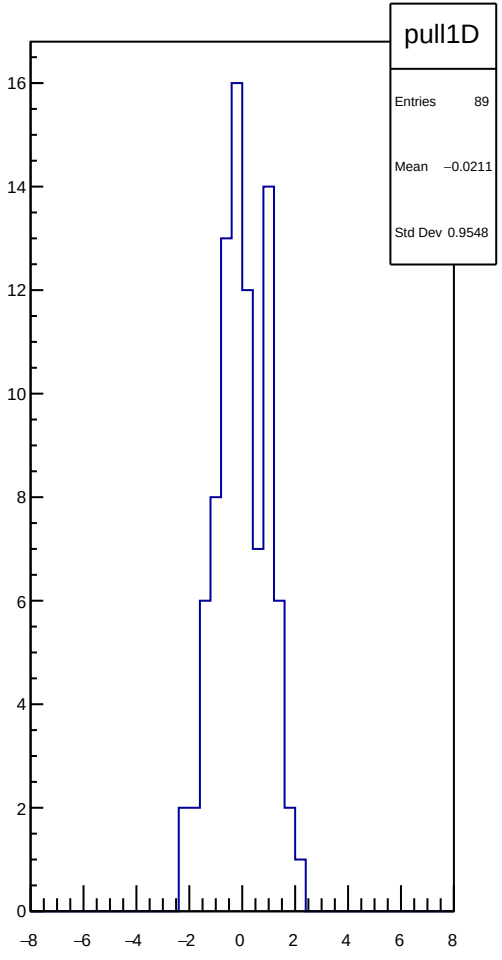

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.963e+05 / 88
p0 1.151e−10 ± 1.385e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

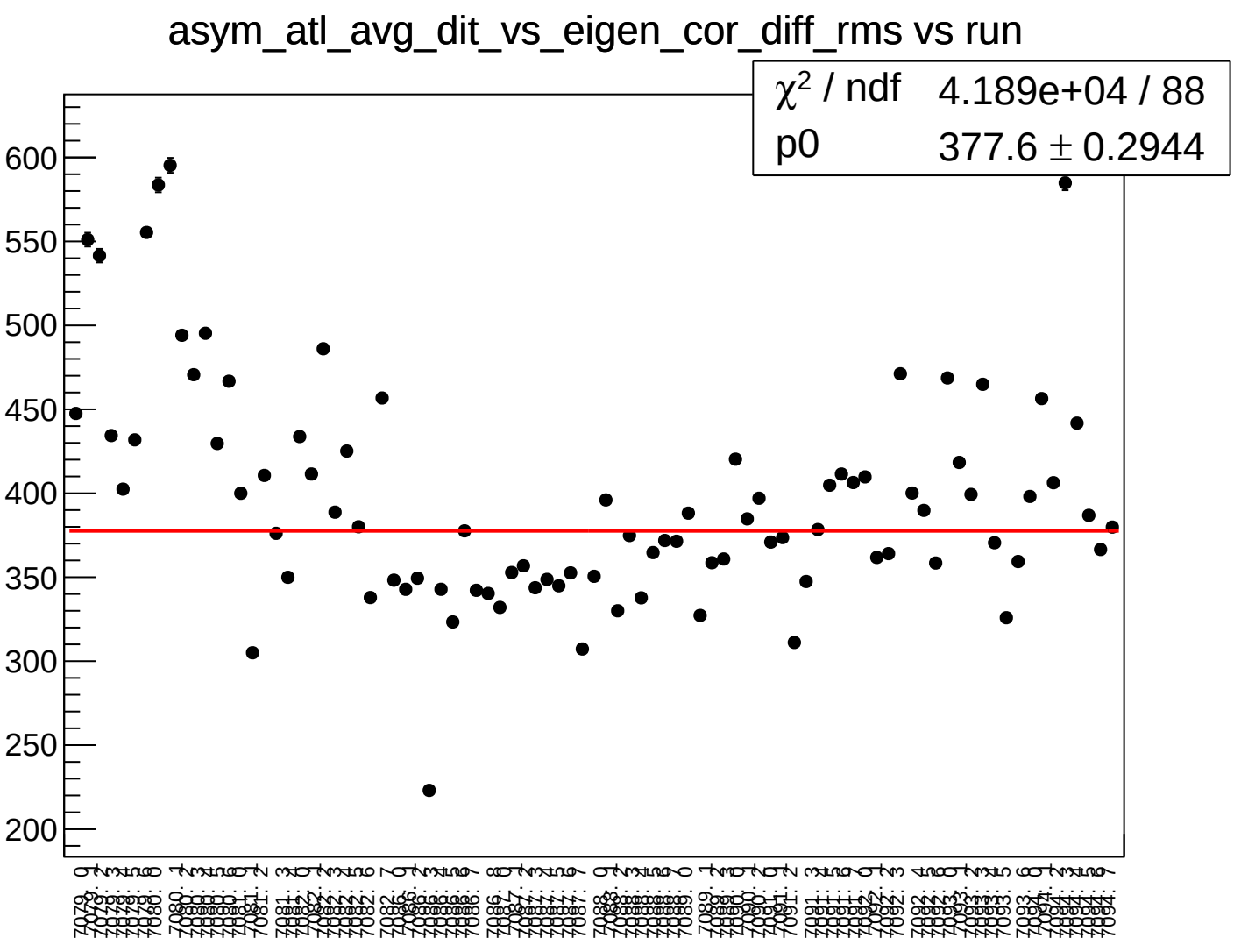

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.18 / 88
p0 0.1807 ± 0.4164
pull
Entries 89
Mean −7.587
Std Dev 0

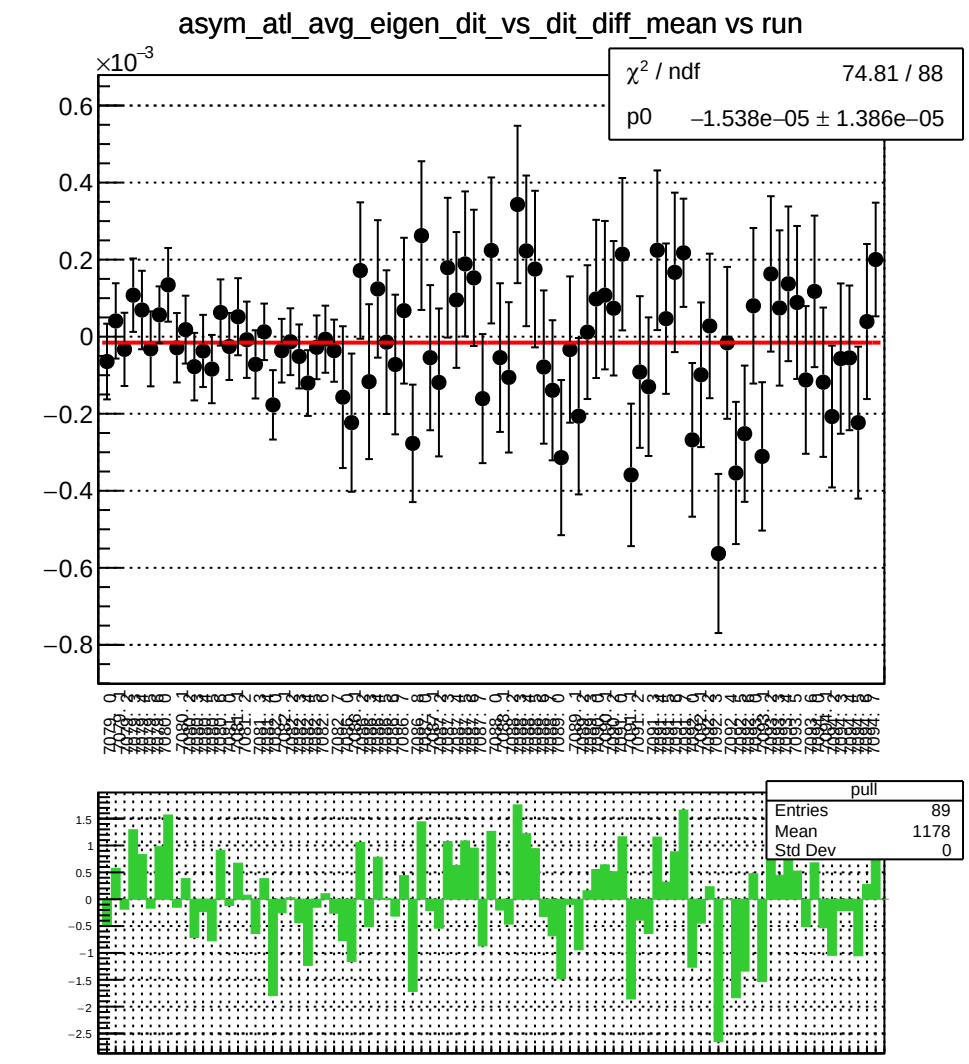

pull1D
Entries 89
Mean −0.0211
Std Dev 0.9548

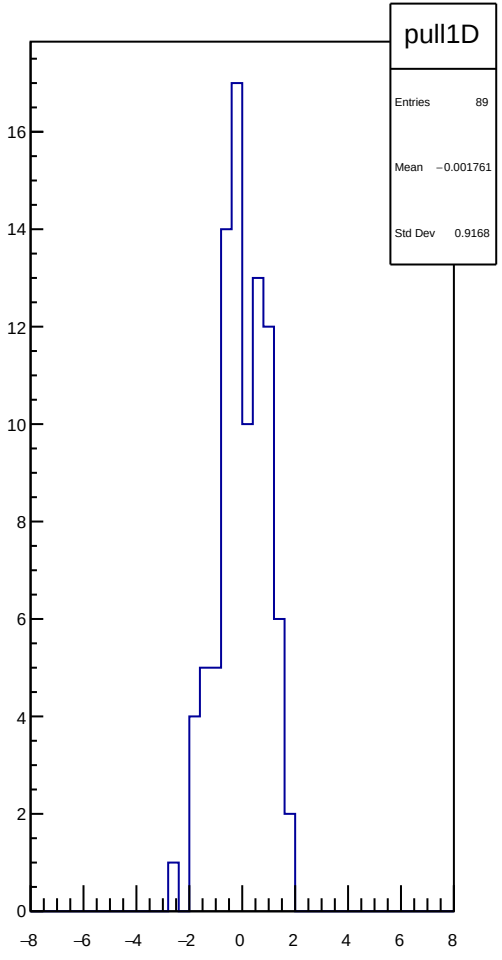

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 88
p0 377.6 ± 0.2944
600
550
500
450
400
350
300
250
200

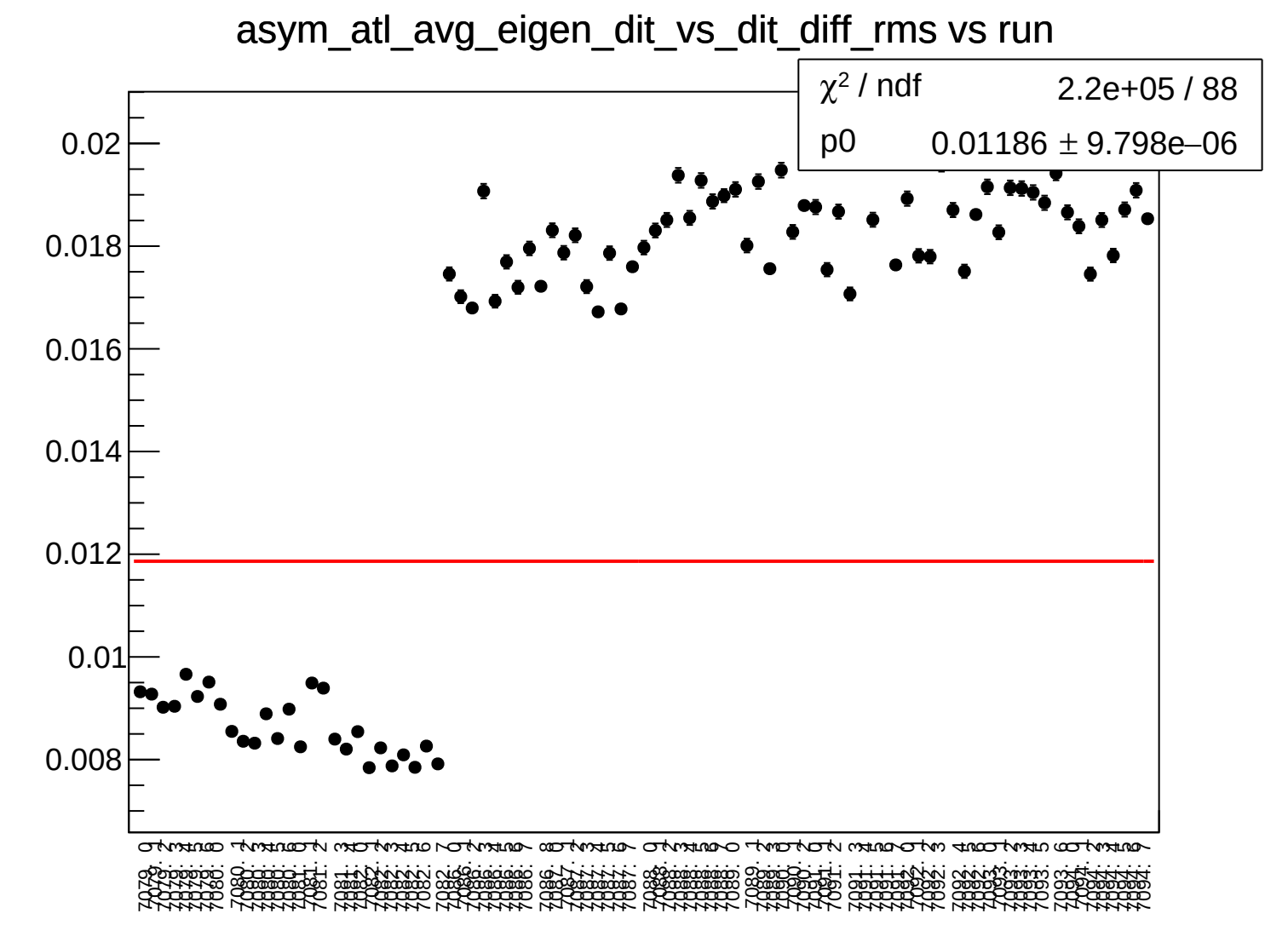

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.18 / 88
p0 0.1807 ± 0.4164
pull
Entries 89
Mean −7.587
Std Dev 0

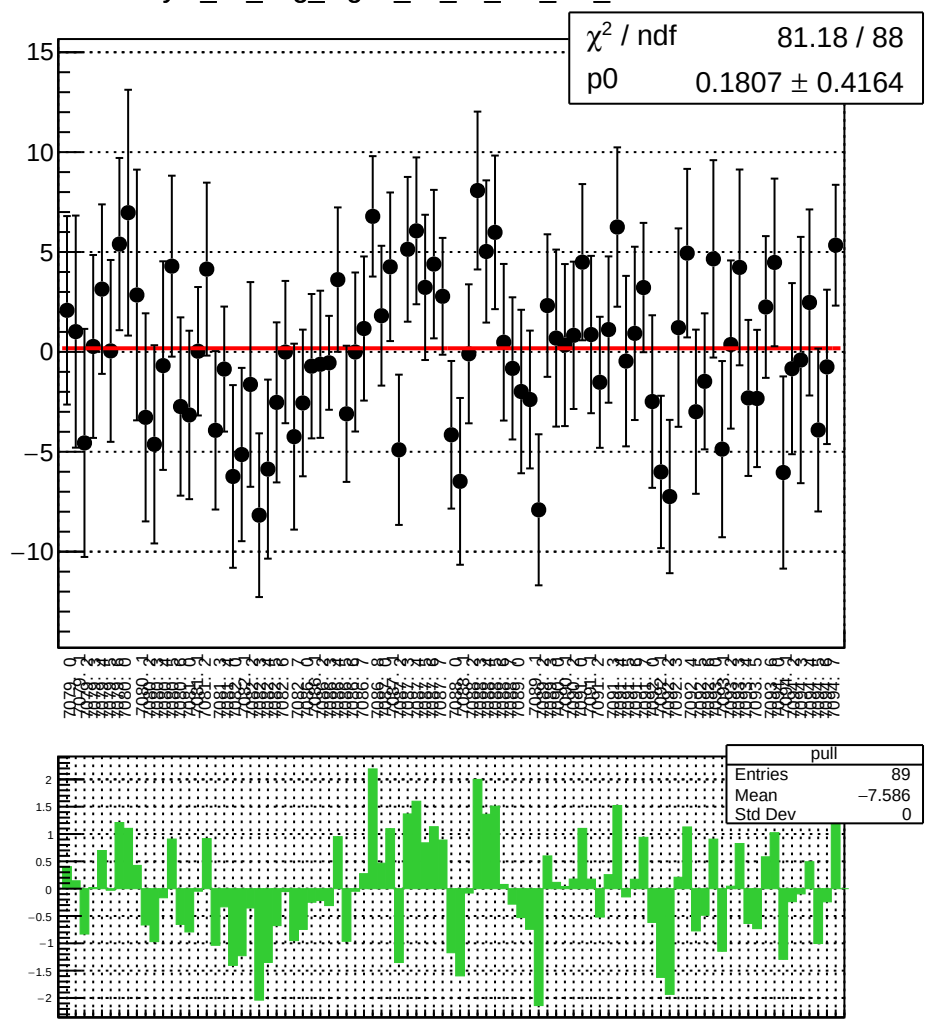

pull1D
Entries 89
Mean −0.0211
Std Dev 0.9548

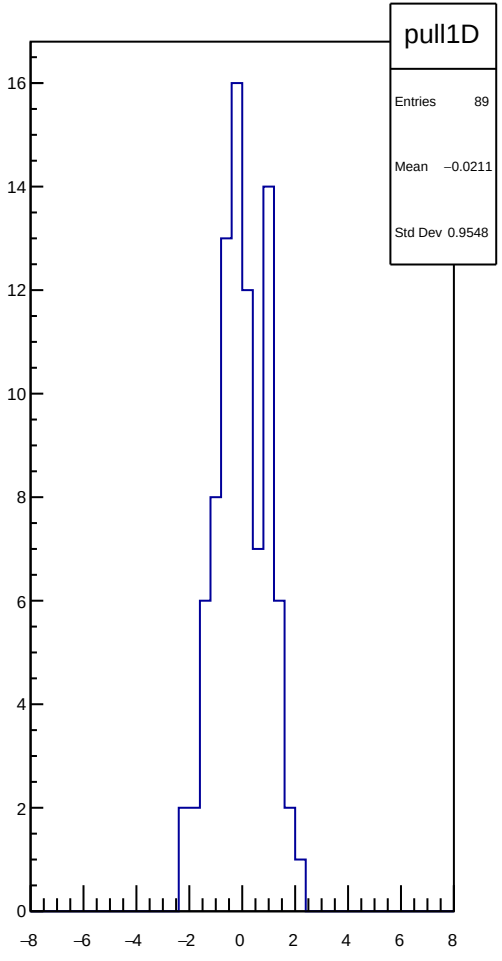

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 88
p0 377.6 ± 0.2944
600
550
500
450
400
350
300
250
200

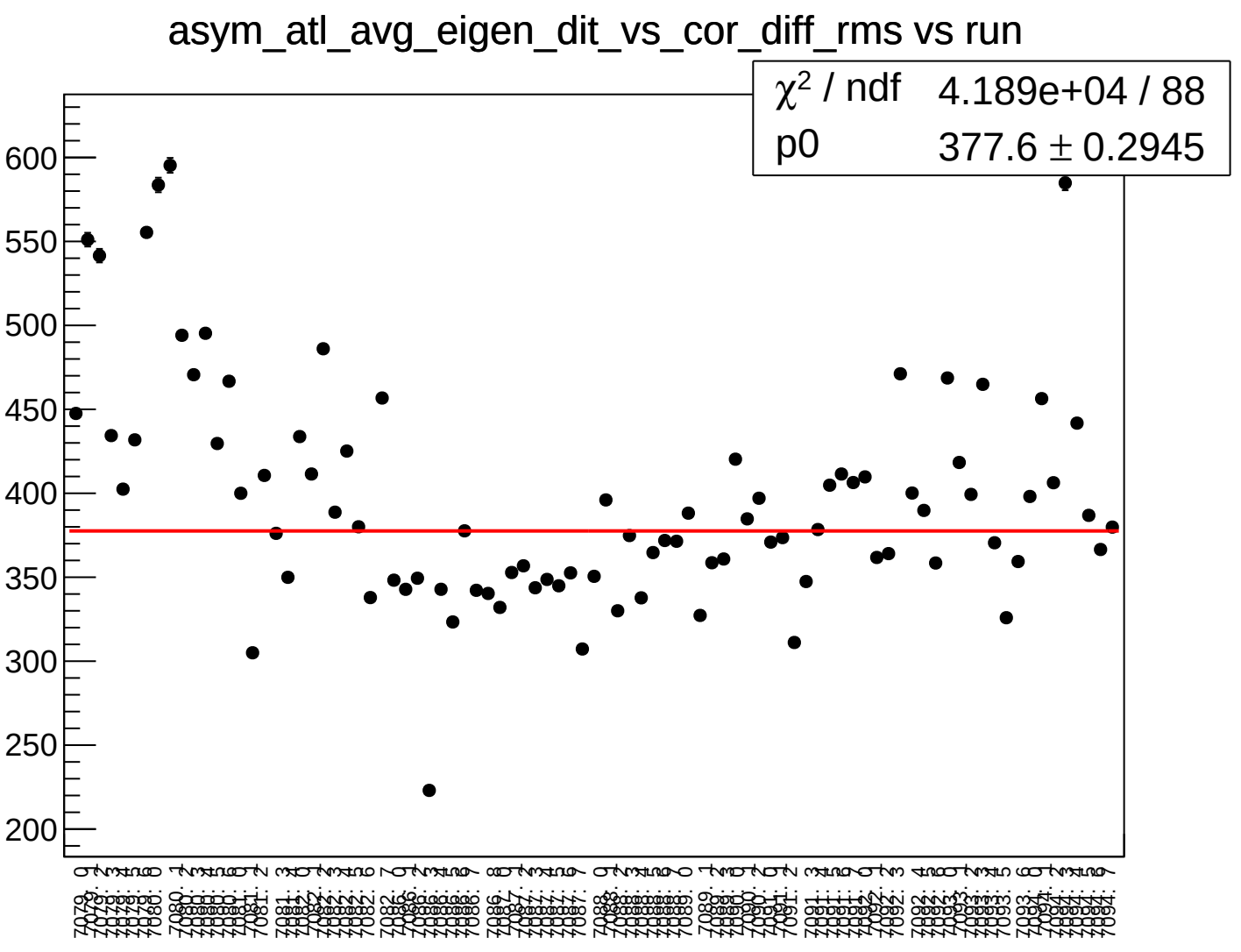

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.81 / 88
p0 −1.538e−05 ± 1.386e−05
pull
Entries 89
Mean 1178
Std Dev 0

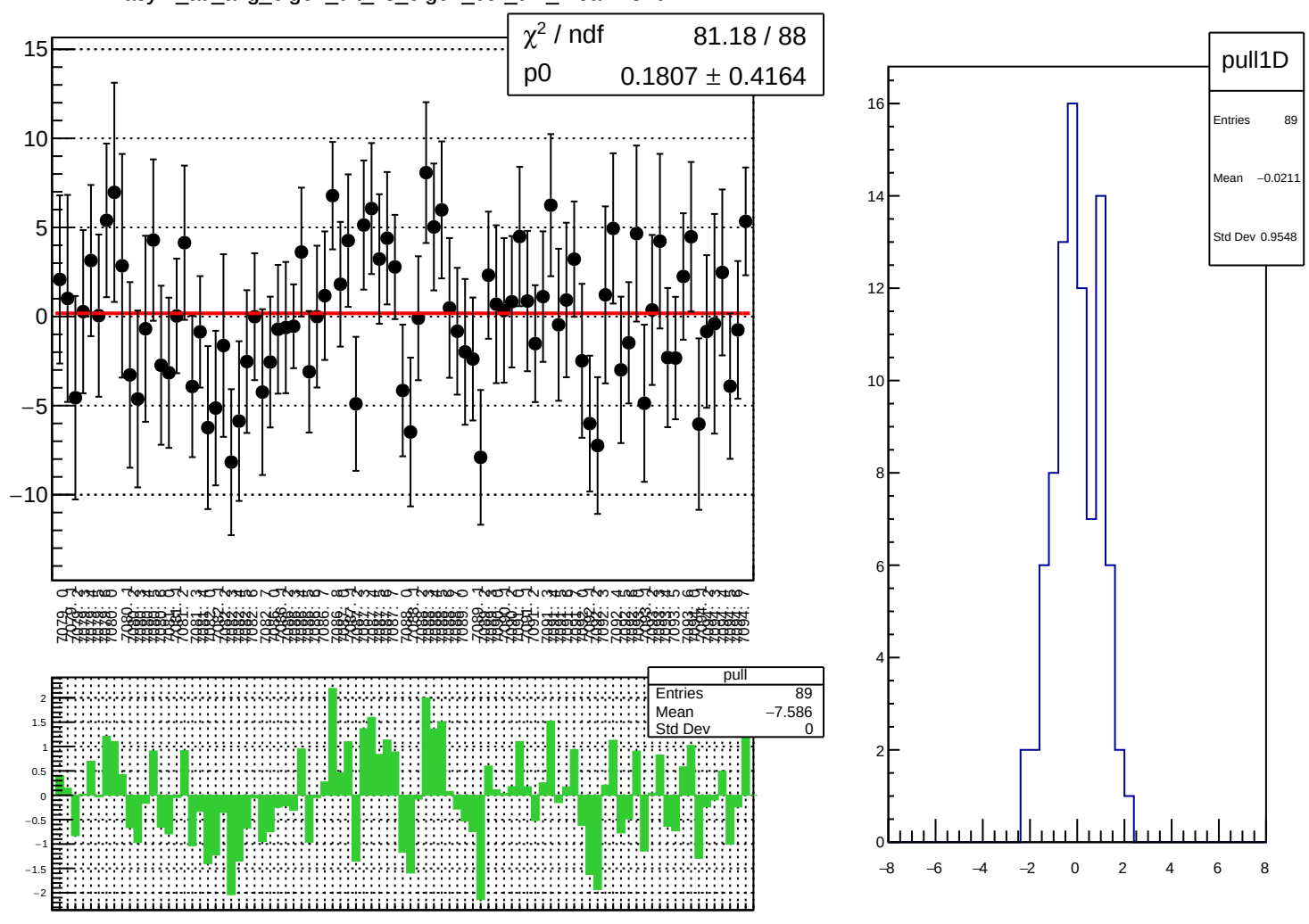

pull1D
Entries 89
Mean −0.001761
Std Dev 0.9168

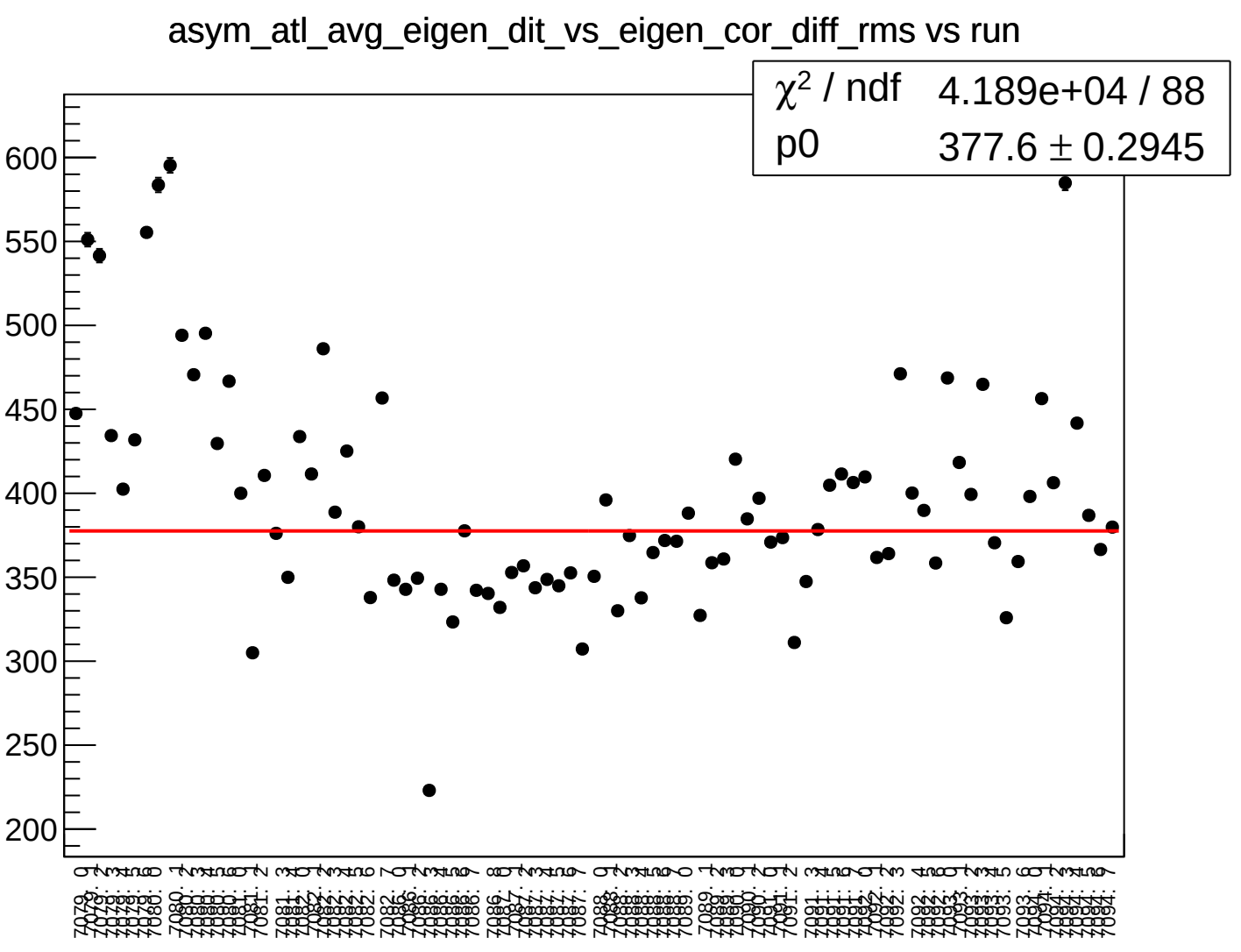

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.2e+05 / 88
p0 0.01186 ± 9.798e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

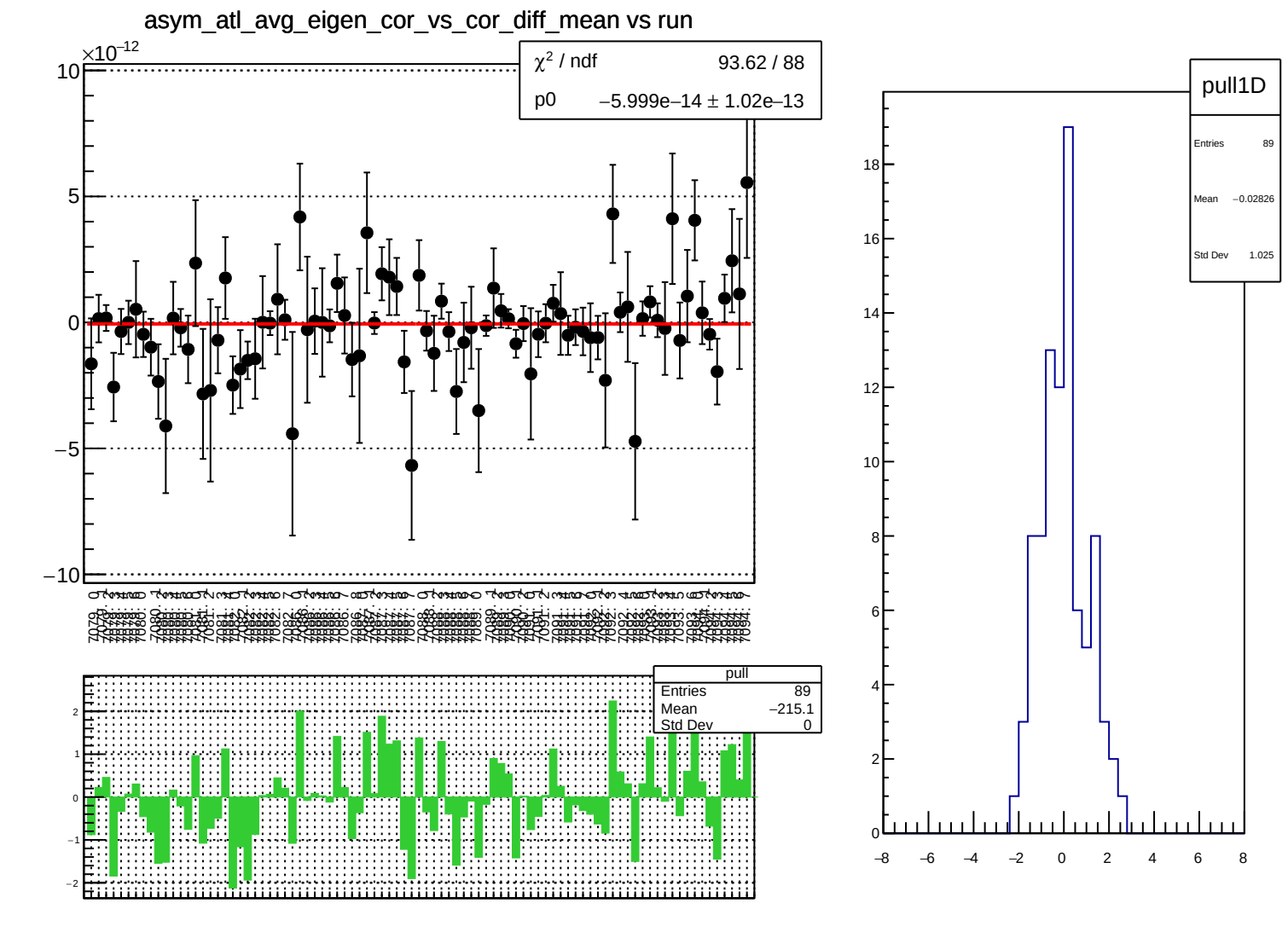

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.18 / 88
p0 0.1807 ± 0.4164
pull
Entries 89
Mean −7.586
Std Dev 0

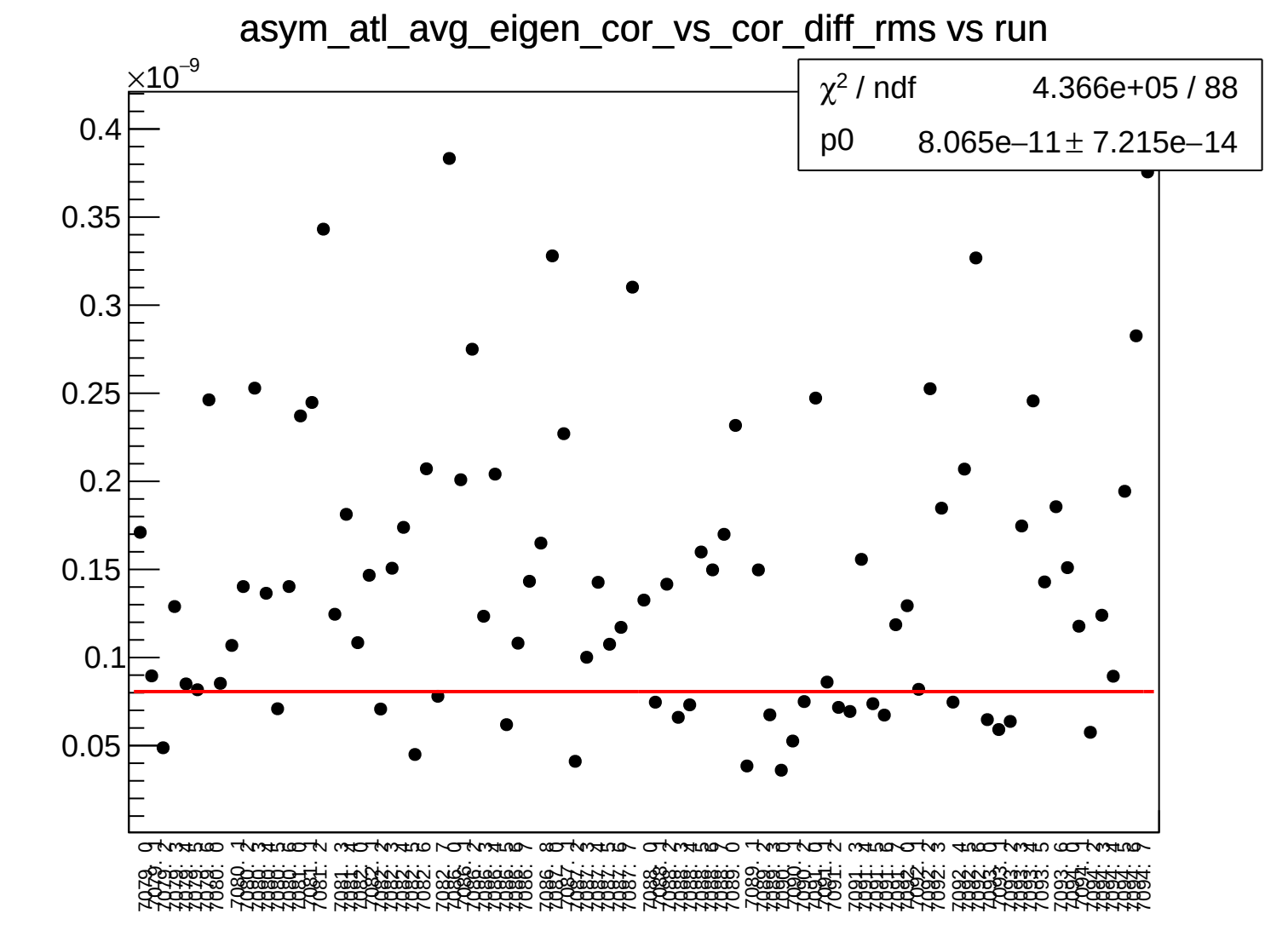

pull1D
Entries 89
Mean −0.0211
Std Dev 0.9548

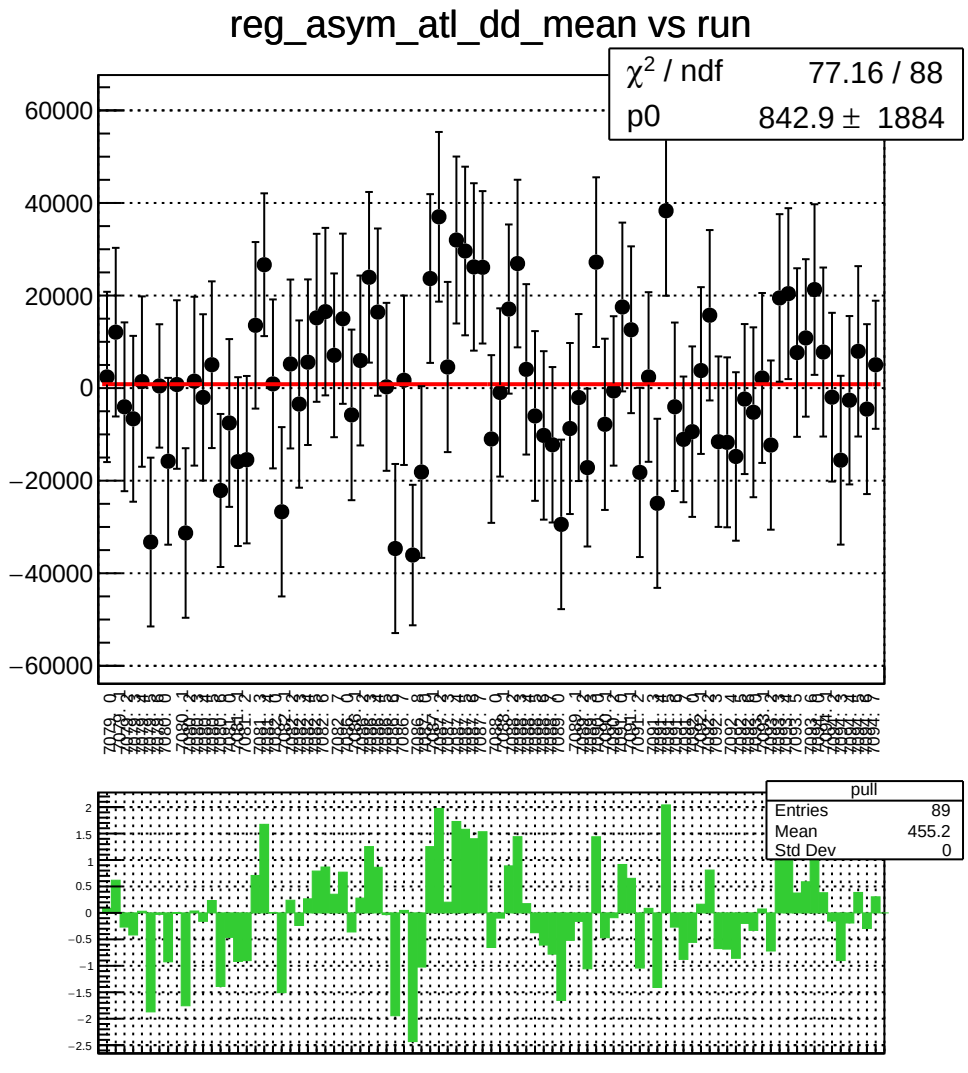

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 88
p0 377.6 ± 0.2945
600
550
500
450
400
350
300
250
200

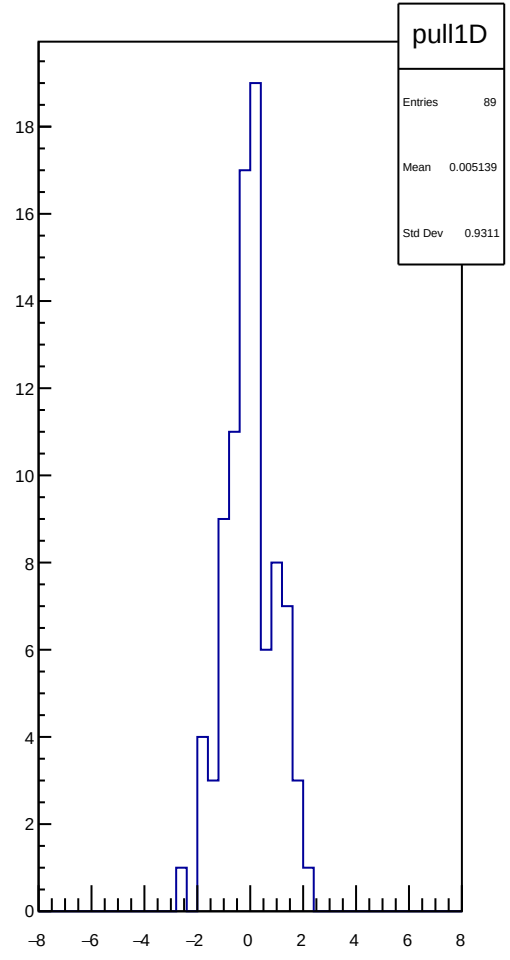

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.18 / 88
p0 0.1807 ± 0.4164
pull
Entries 89
Mean −7.586
Std Dev 0
pull1D
Entries 89
Mean −0.0211
Std Dev 0.9548

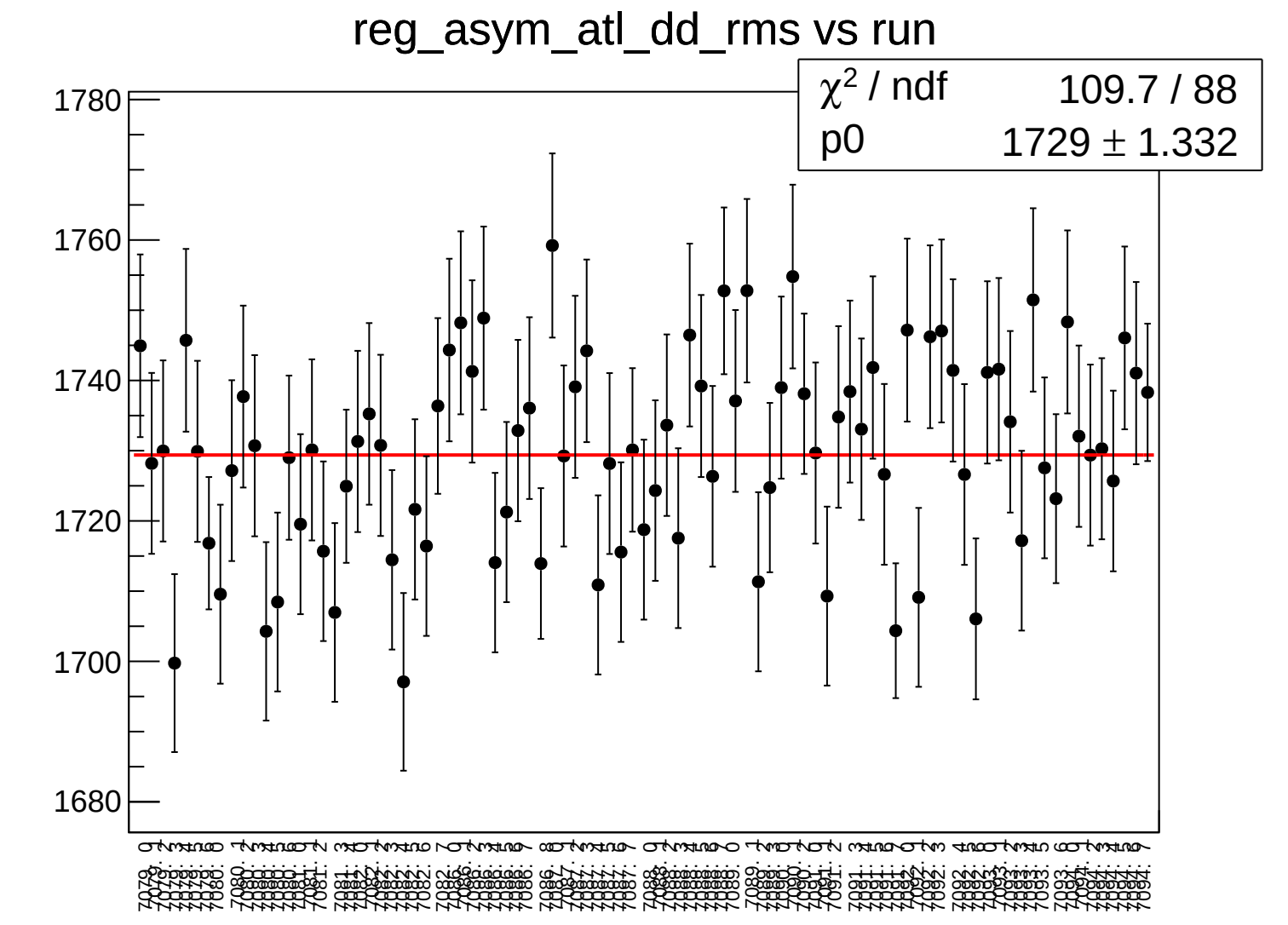

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 88
p0 377.6 ± 0.2945
600
550
500
450
400
350
300
250
200

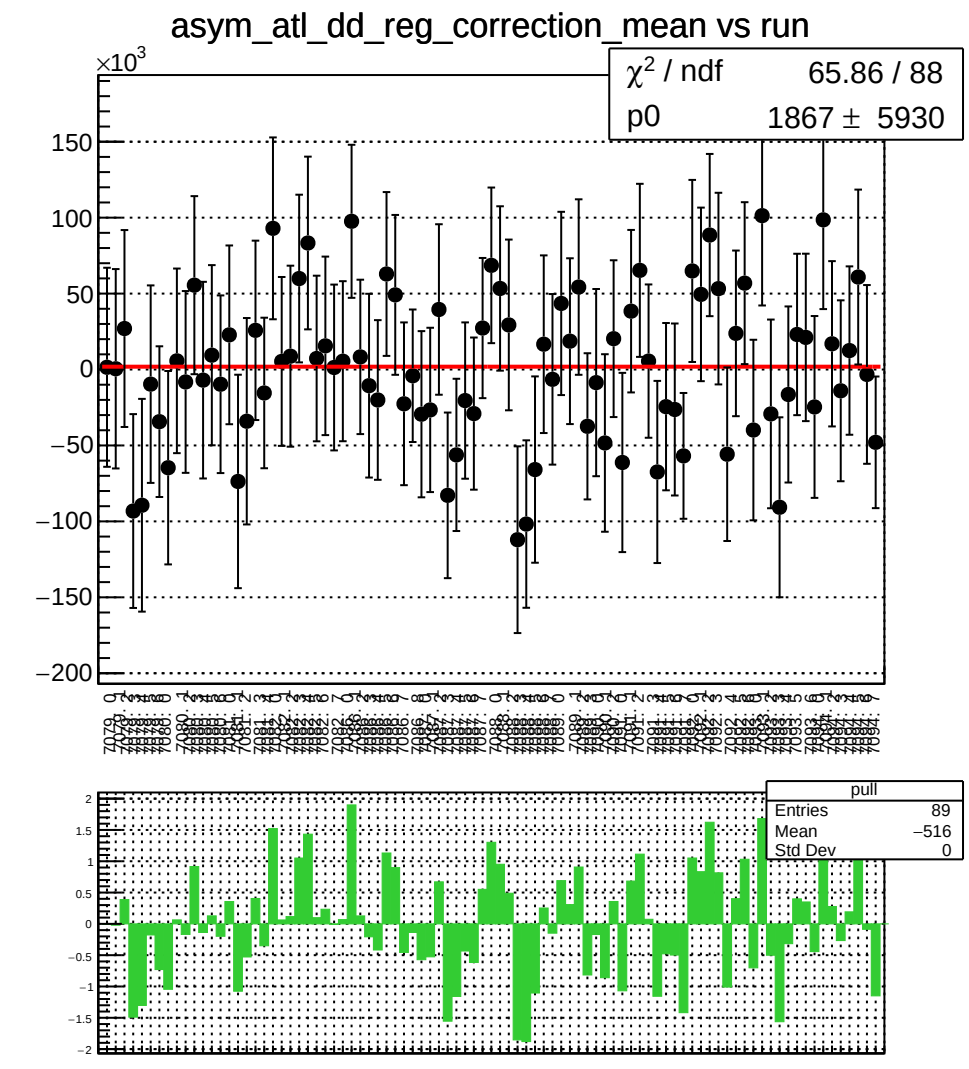

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.62 / 88
p0 −5.999e−14 ± 1.02e−13
pull
Entries 89
Mean −215.1
Std Dev 0
pull1D
Entries 89
Mean −0.02826
Std Dev 1.025

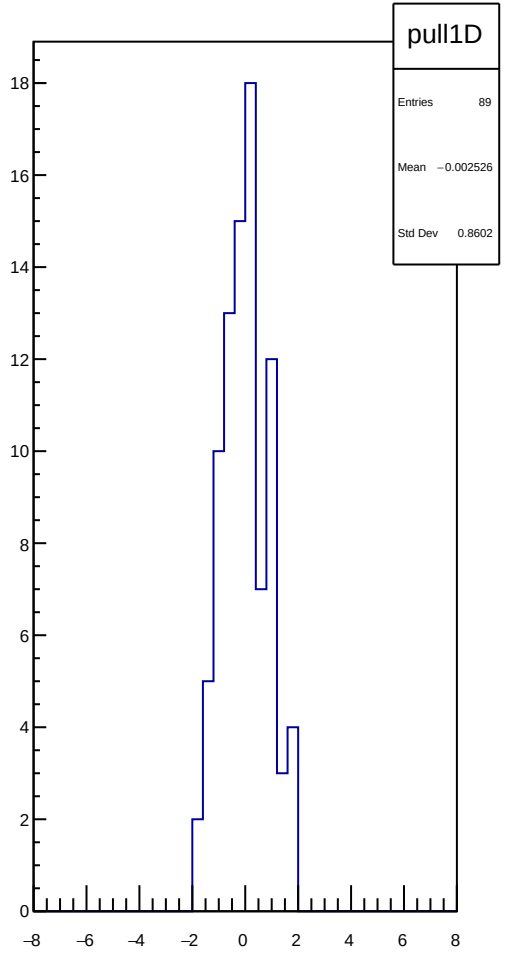

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.366e+05 / 88
p0 8.065e−11 ± 7.215e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

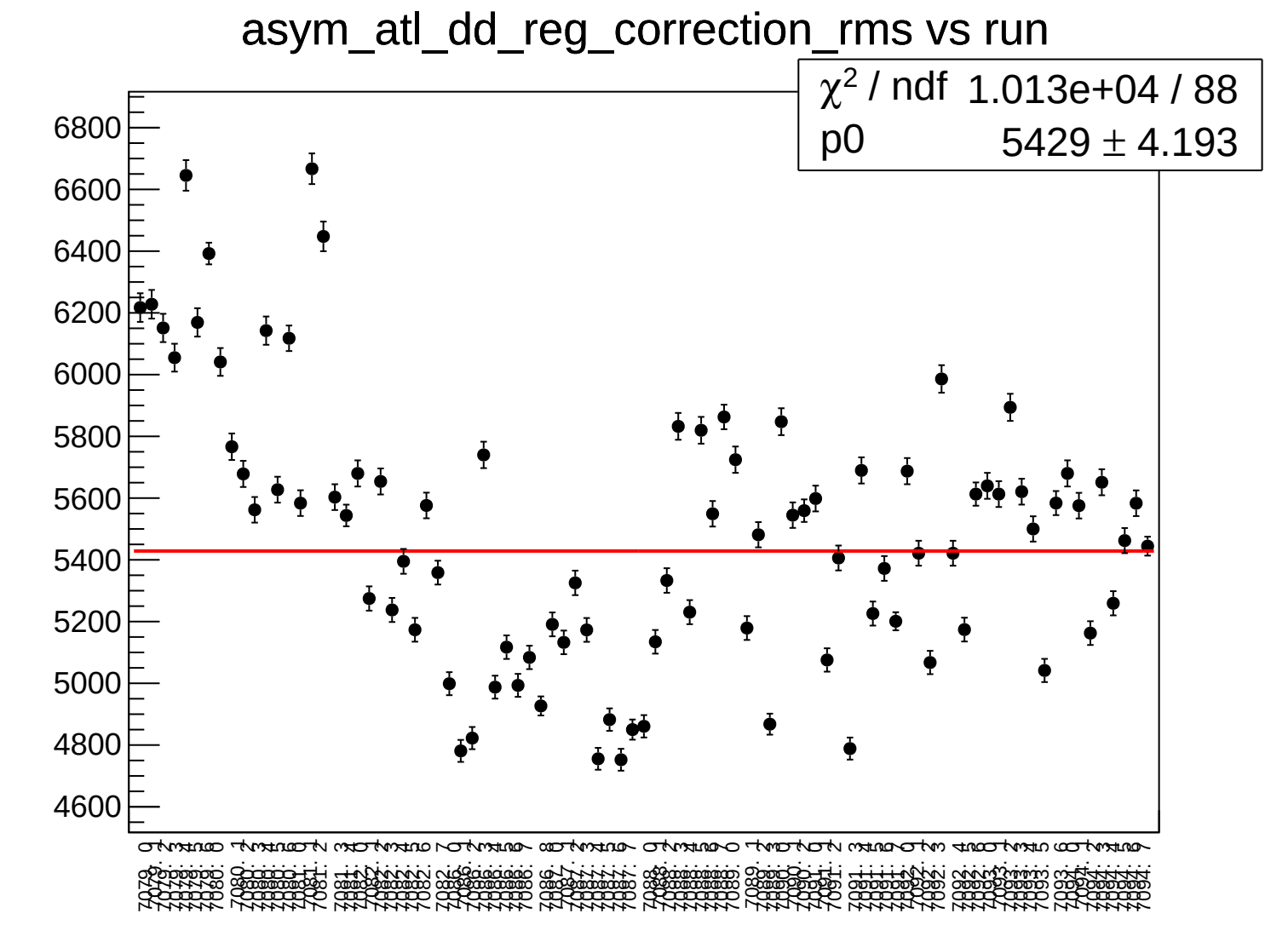

reg_asym_atl_dd_mean vs run
χ² / ndf 77.16 / 88
p0 842.9 ± 1884
pull
Entries 89
Mean 455.2
Std Dev 0

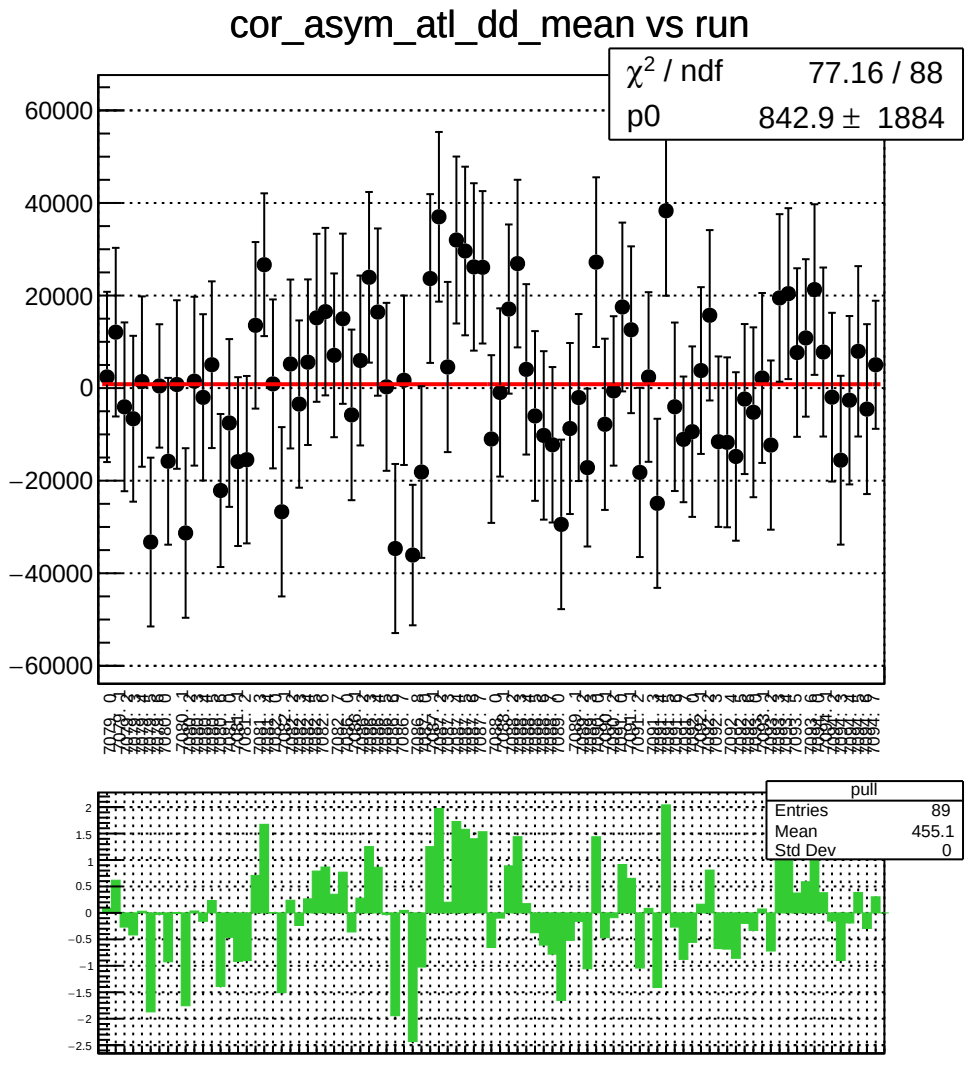

pull1D
Entries 89
Mean 0.005139
Std Dev 0.9311

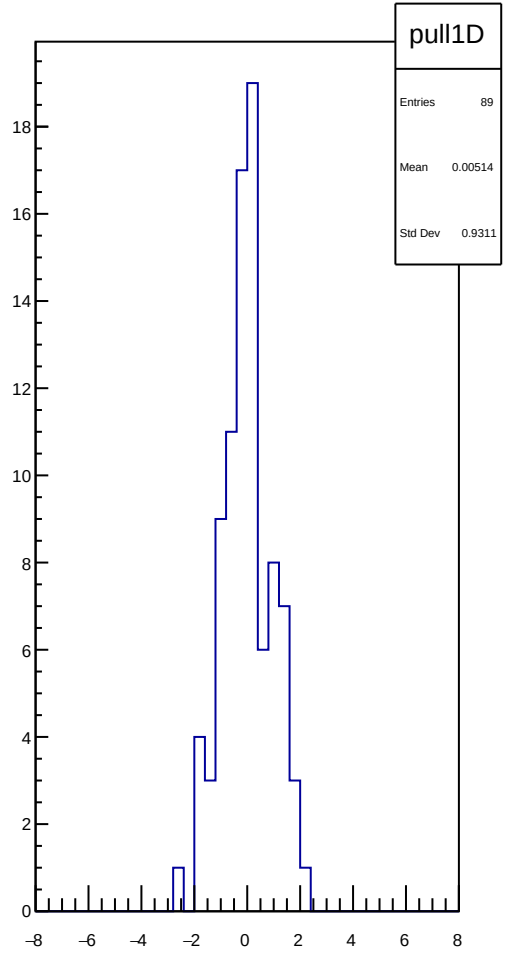

reg_asym_atl_dd_rms vs run
χ² / ndf 109.7 / 88
p0 1729 ± 1.332
1780
1760
1740
1720
1700
1680

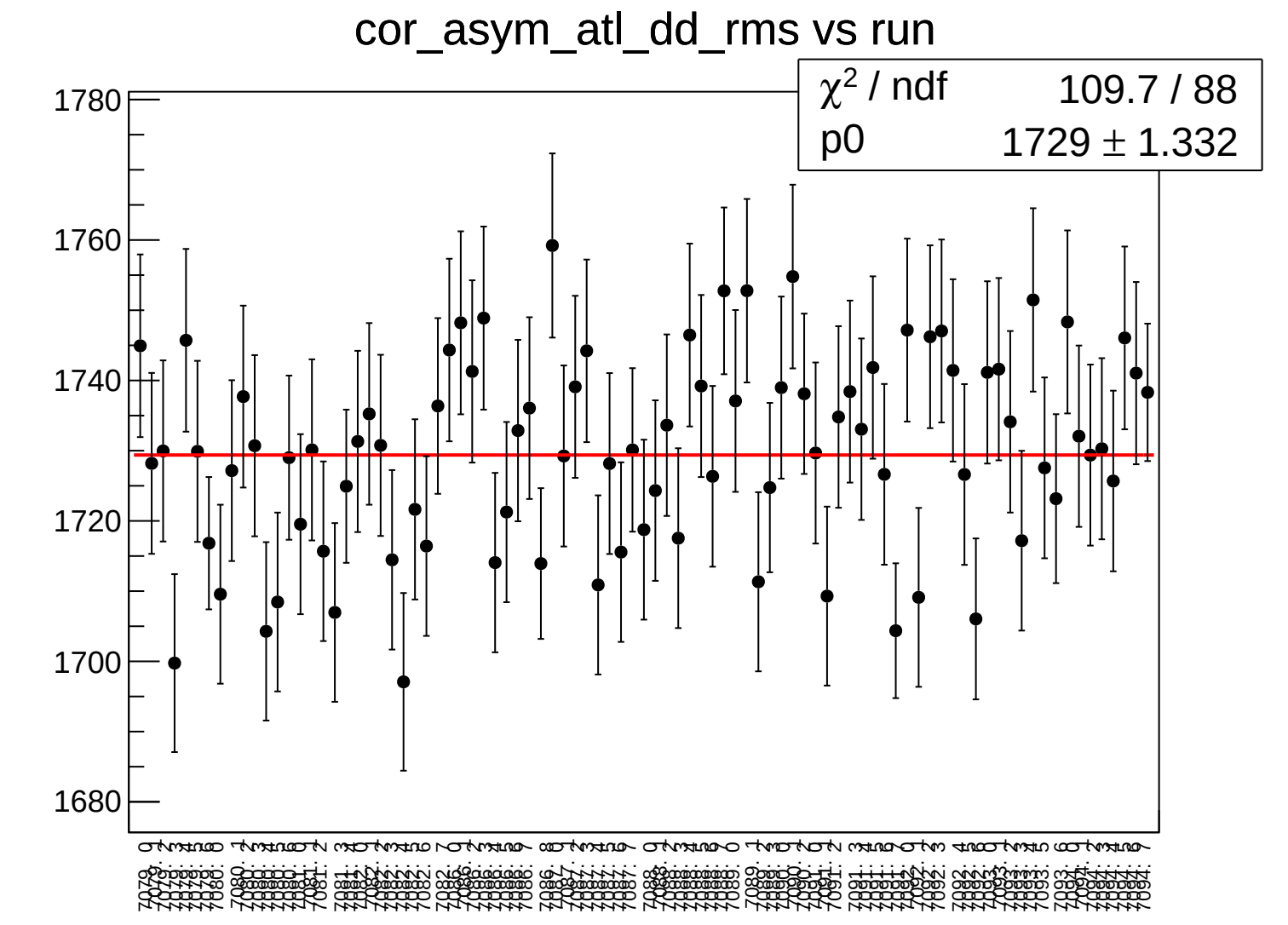

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 65.86 / 88
p0 1867 ± 5930
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −516
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

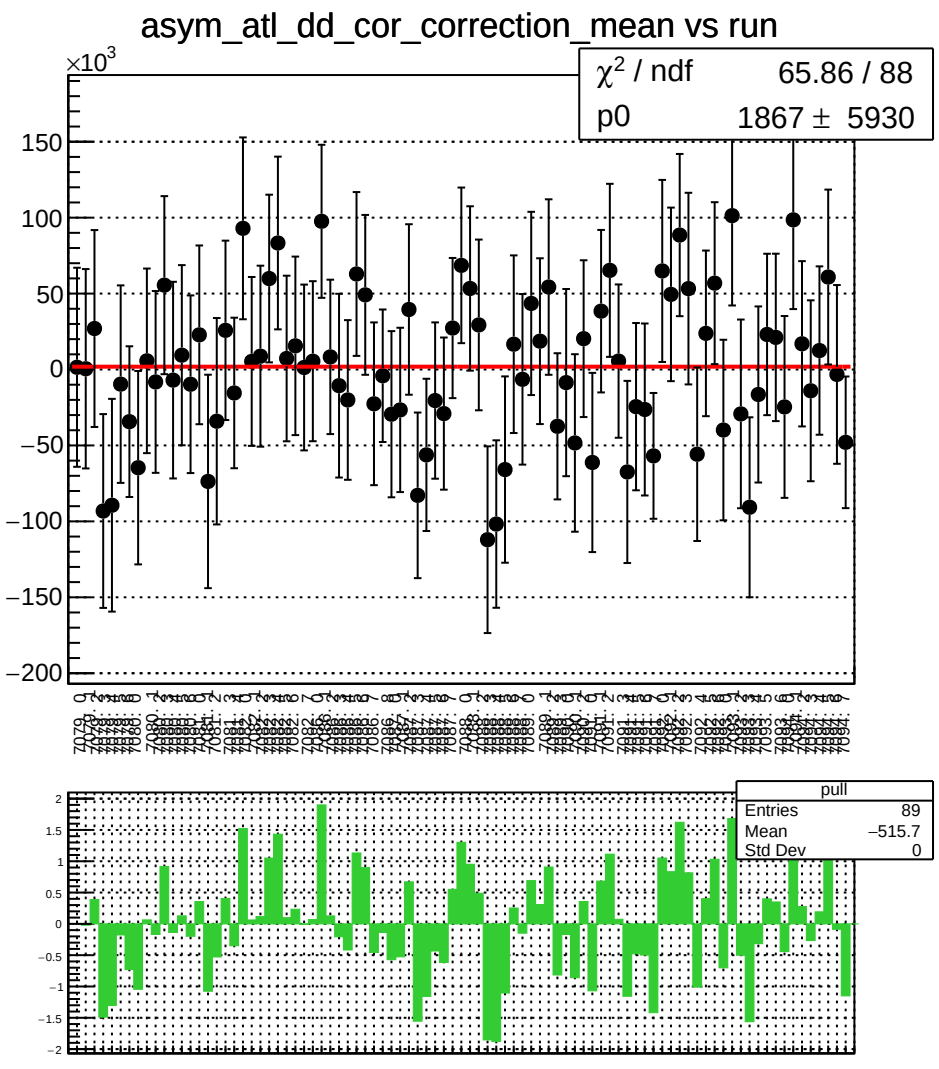

pull1D
Entries 89
Mean −0.002526
Std Dev 0.8602
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

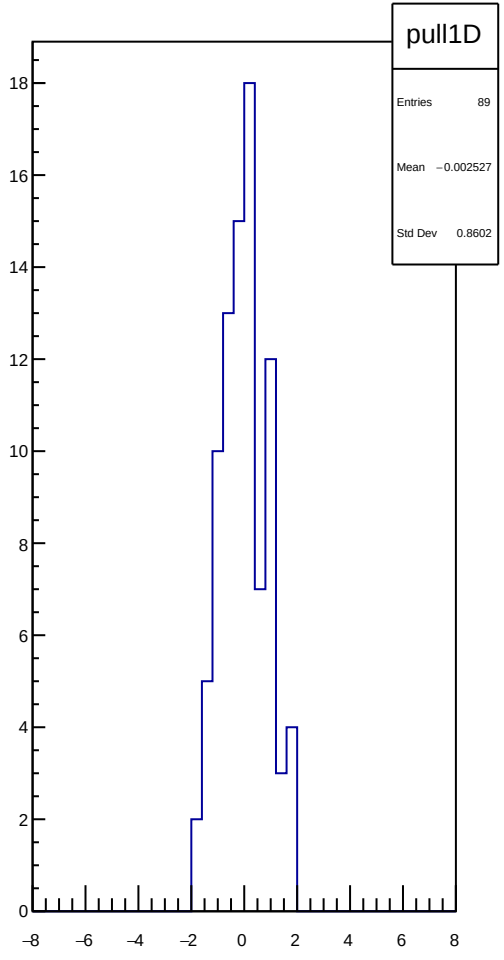

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.013e+04 / 88
p0 5429 ± 4.193
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

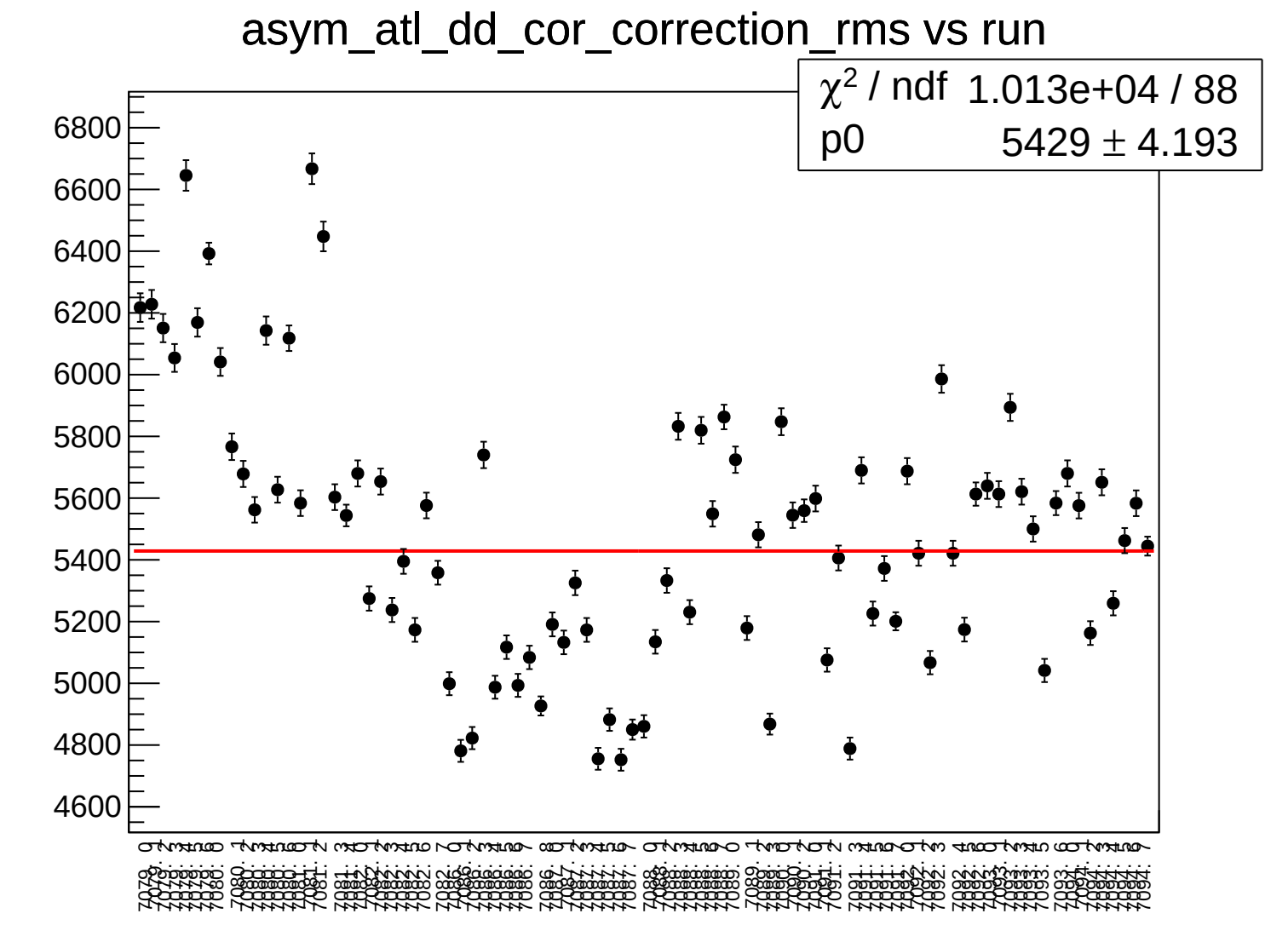

cor_asym_atl_dd_mean vs run
χ² / ndf 77.16 / 88
p0 842.9 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 455.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

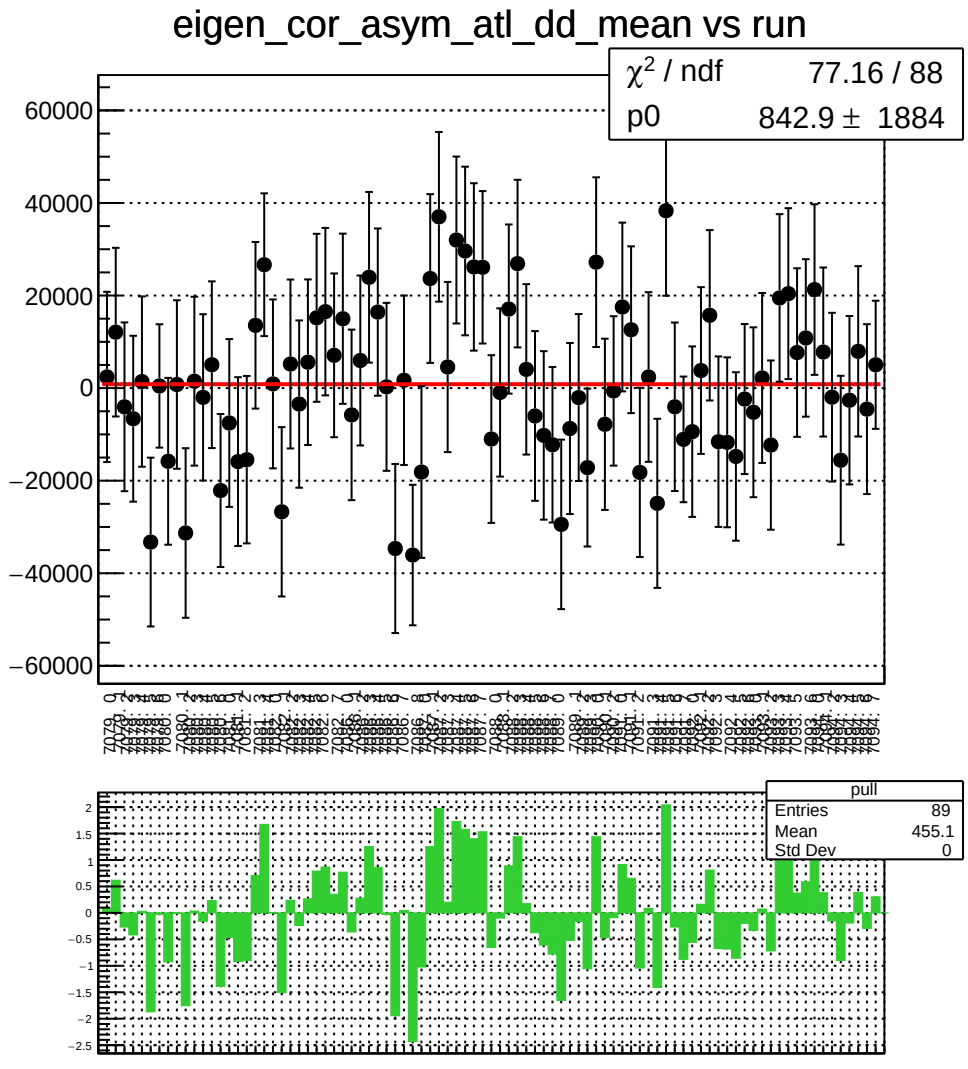

pull1D
Entries 89
Mean 0.00514
Std Dev 0.9311
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

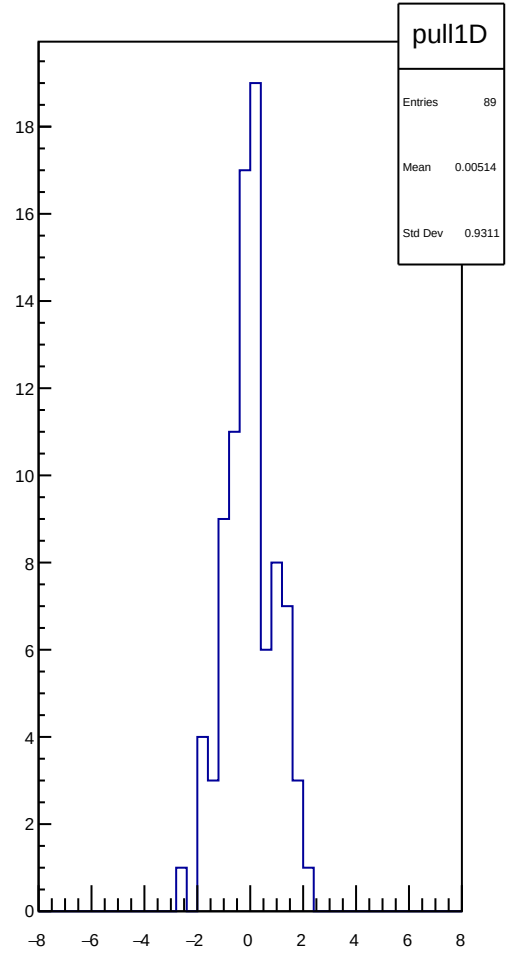

cor_asym_atl_dd_rms vs run
χ² / ndf 109.7 / 88
p0 1729 ± 1.332
1780
1760
1740
1720
1700
1680

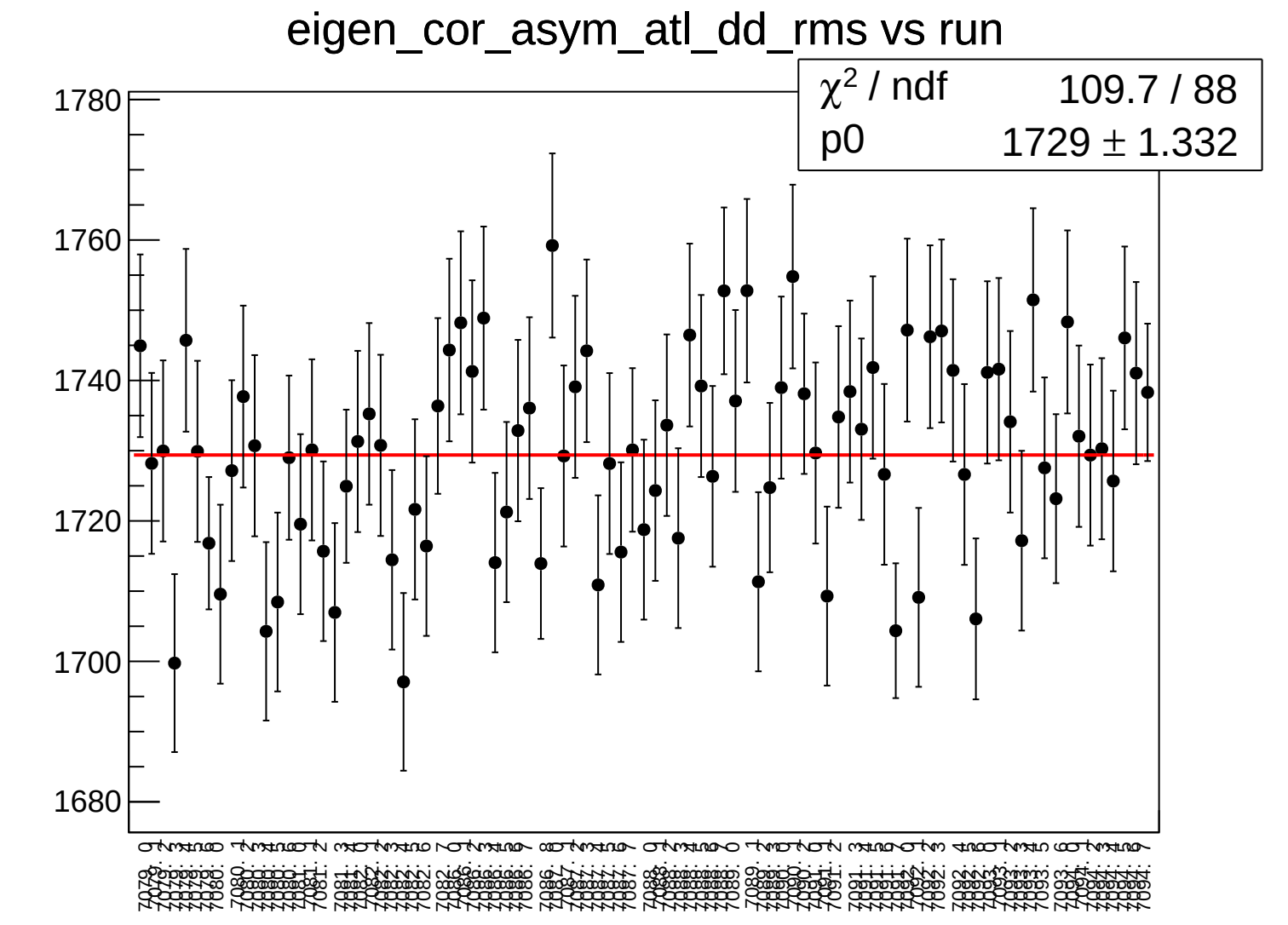

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 65.86 / 88
p0 1867 ± 5930
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −515.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

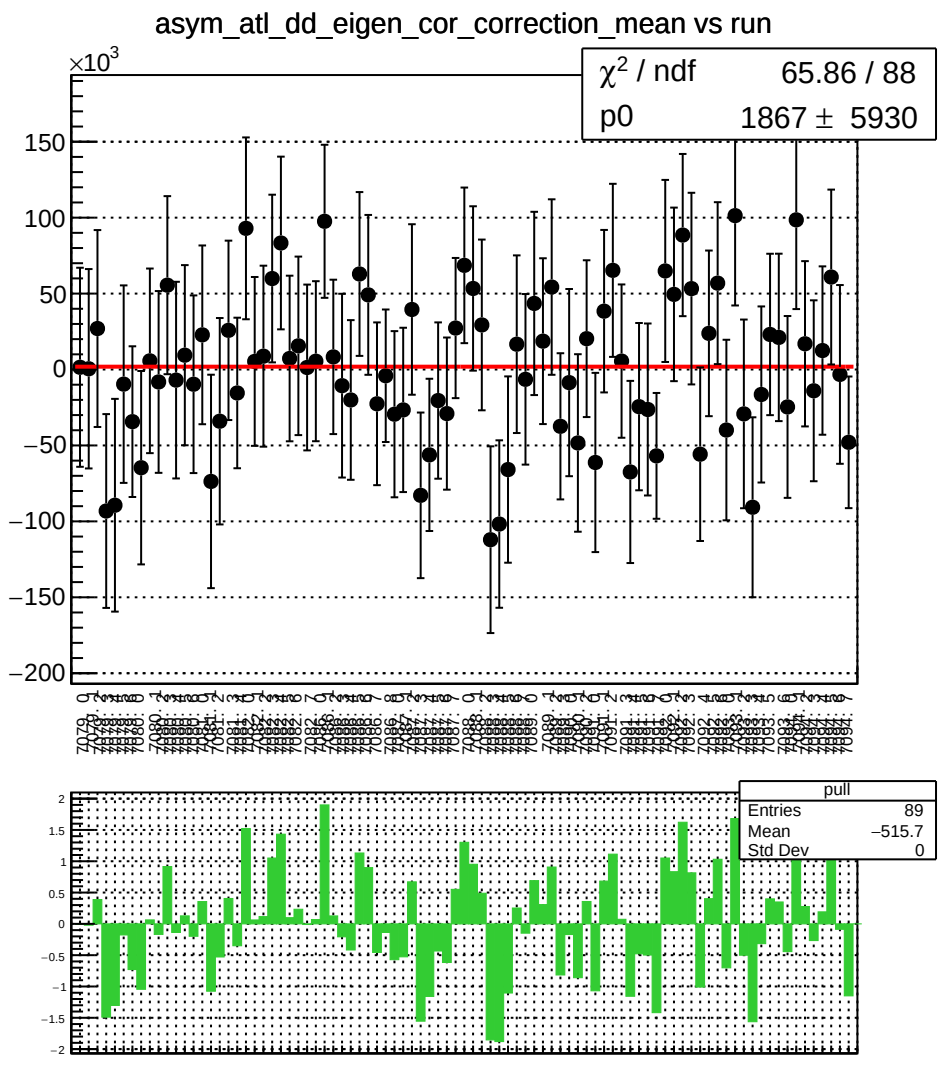

pull1D
Entries 89
Mean −0.002527
Std Dev 0.8602
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

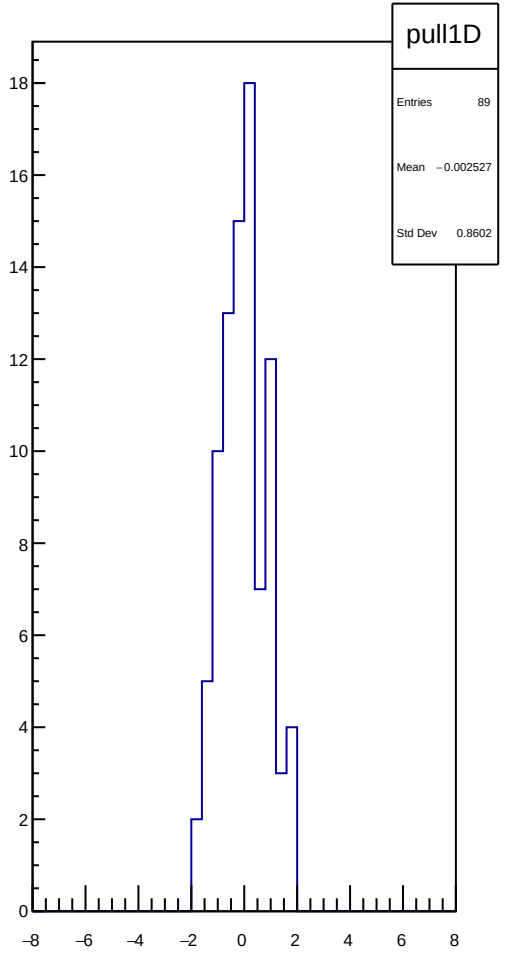

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.013e+04 / 88
p0 5429 ± 4.193
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

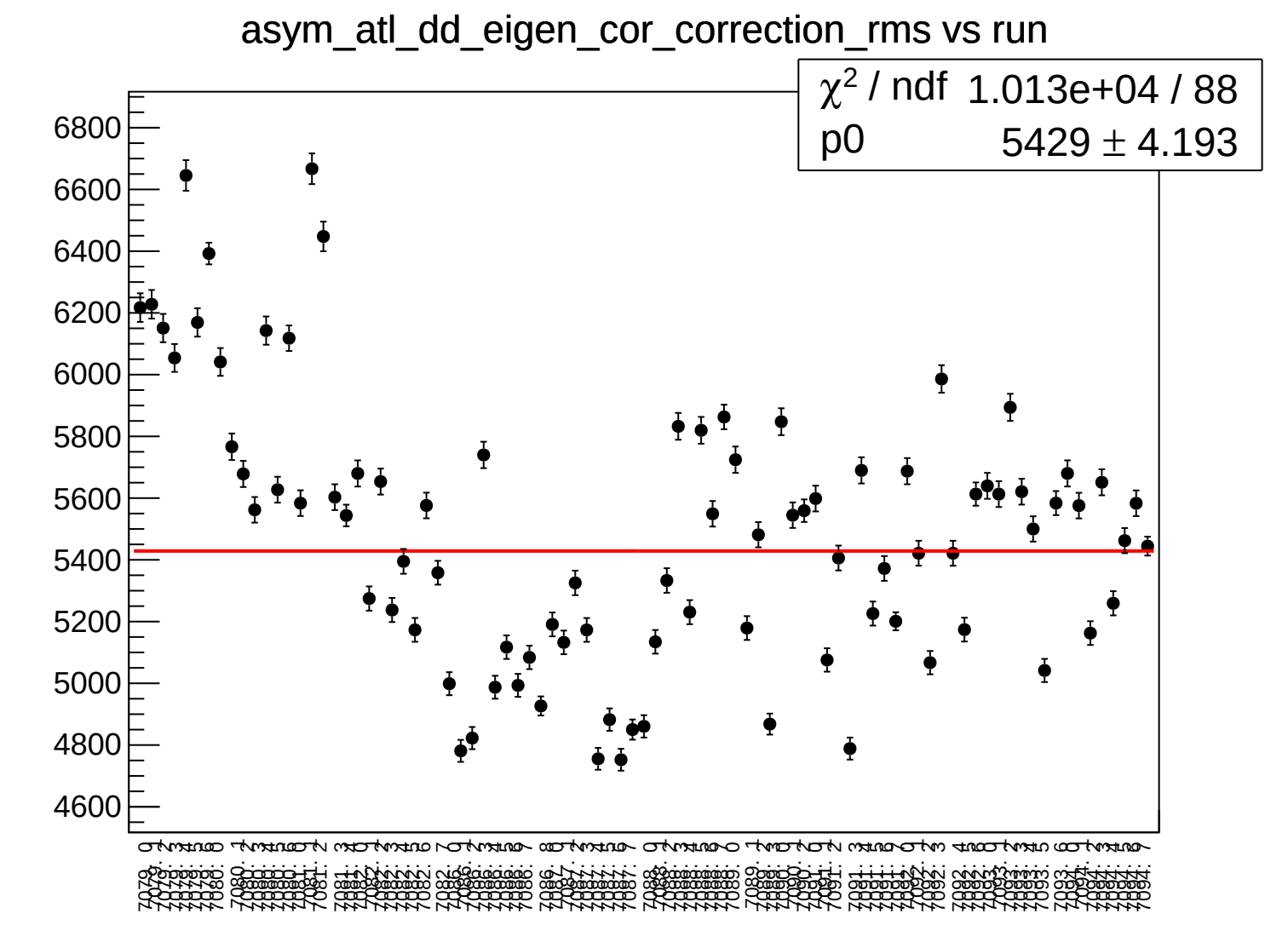

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 77.16 / 88
p0 842.9 ± 1884
pull
Entries 89
Mean 455.1
Std Dev 0

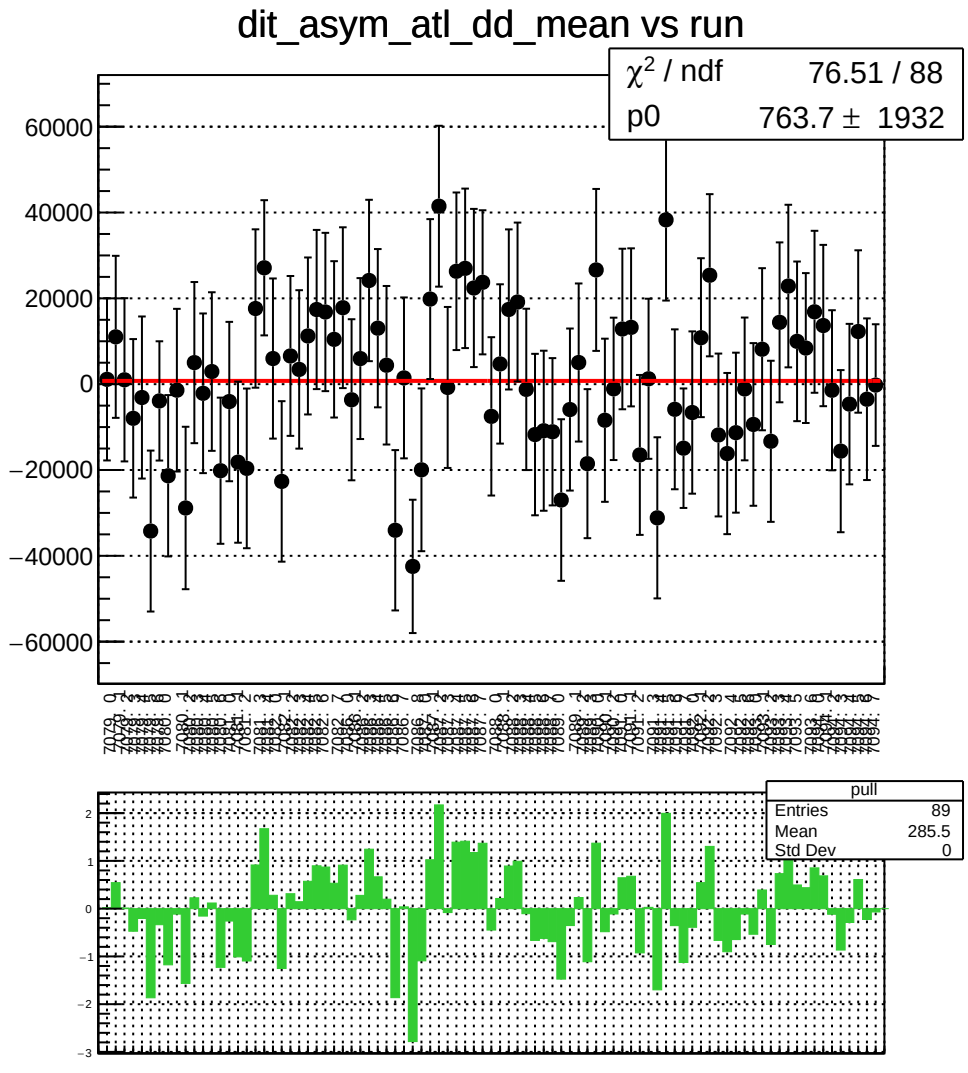

pull1D
Entries 89
Mean 0.00514
Std Dev 0.9311

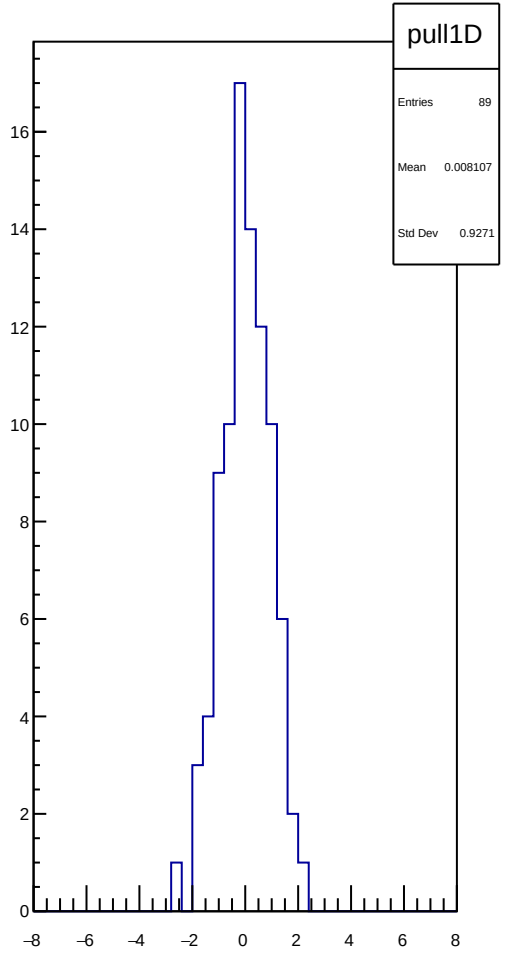

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 109.7 / 88
p0 1729 ± 1.332
1780
1760
1740
1720
1700
1680

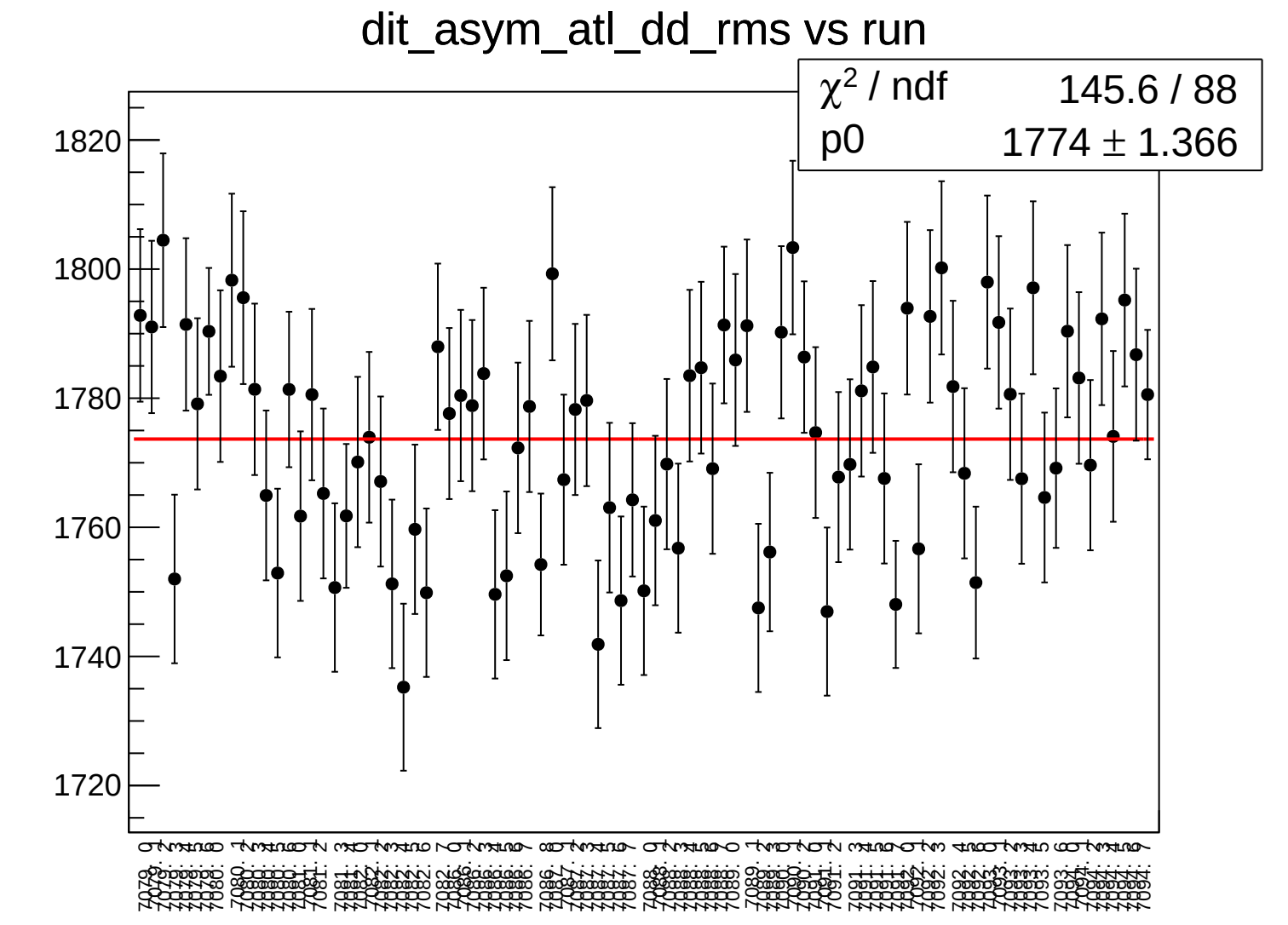

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 65.86 / 88
p0 1867 ± 5930
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −515.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

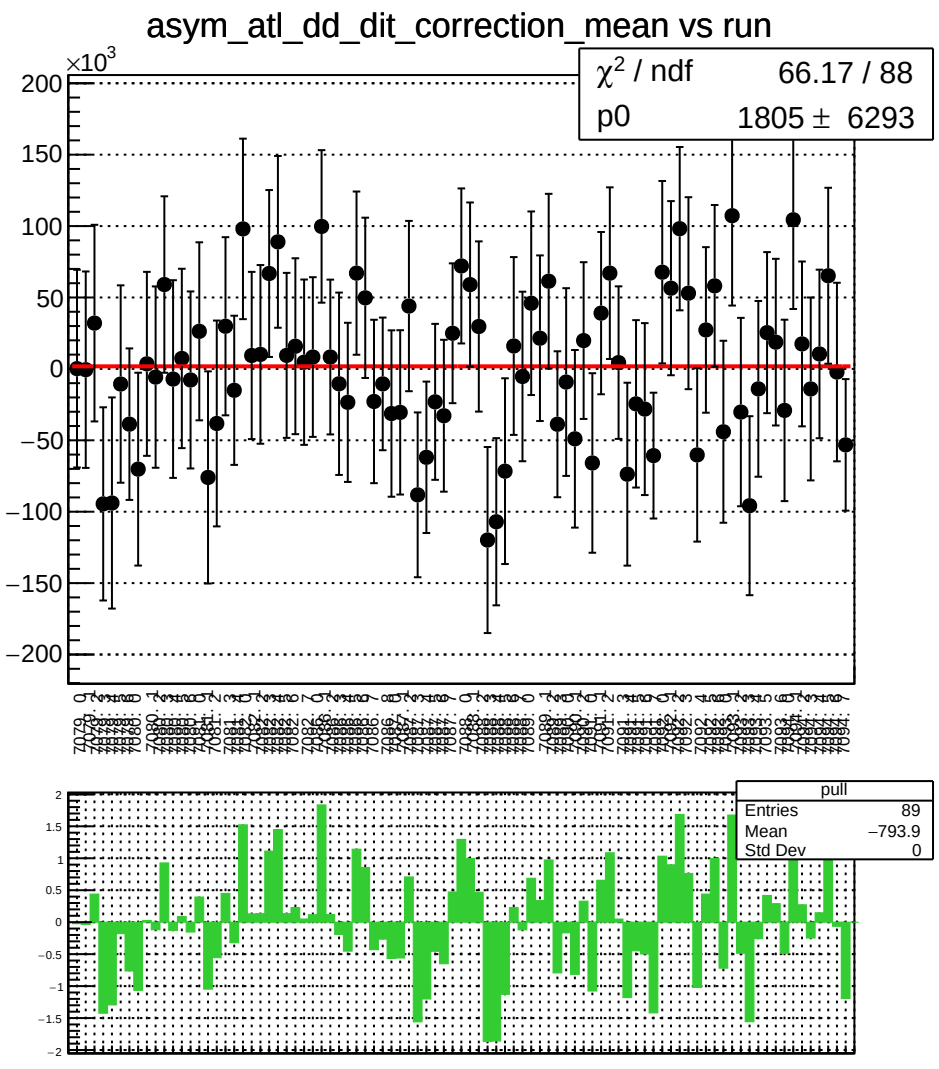

pull1D
Entries 89
Mean −0.002527
Std Dev 0.8602
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

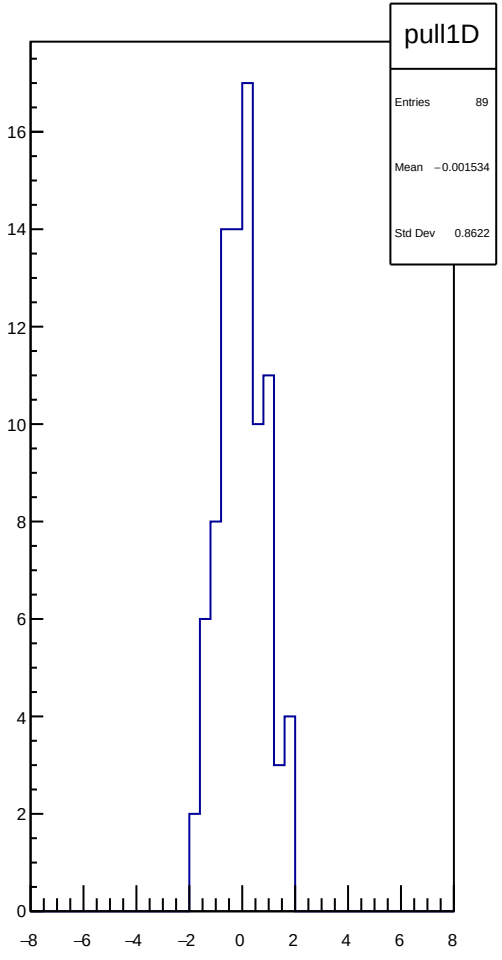

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.013e+04 / 88
p0 5429 ± 4.193
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600


dit_asym_atl_dd_mean vs run
χ² / ndf 76.51 / 88
p0 763.7 ± 1932
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 285.5
Std Dev 0
2
1
0
−1
−2
−3

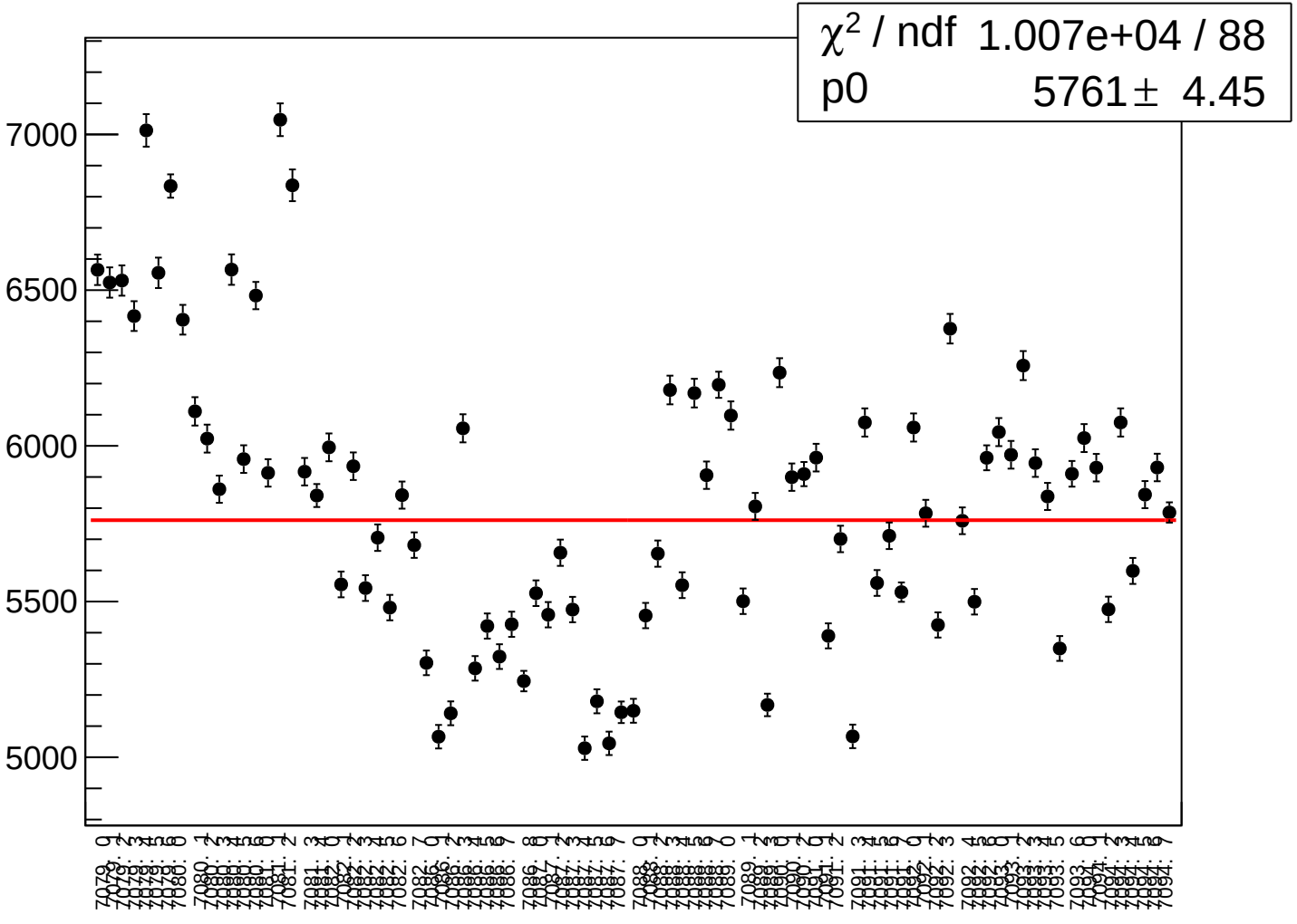

pull1D
Entries 89
Mean 0.008107
Std Dev 0.9271
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

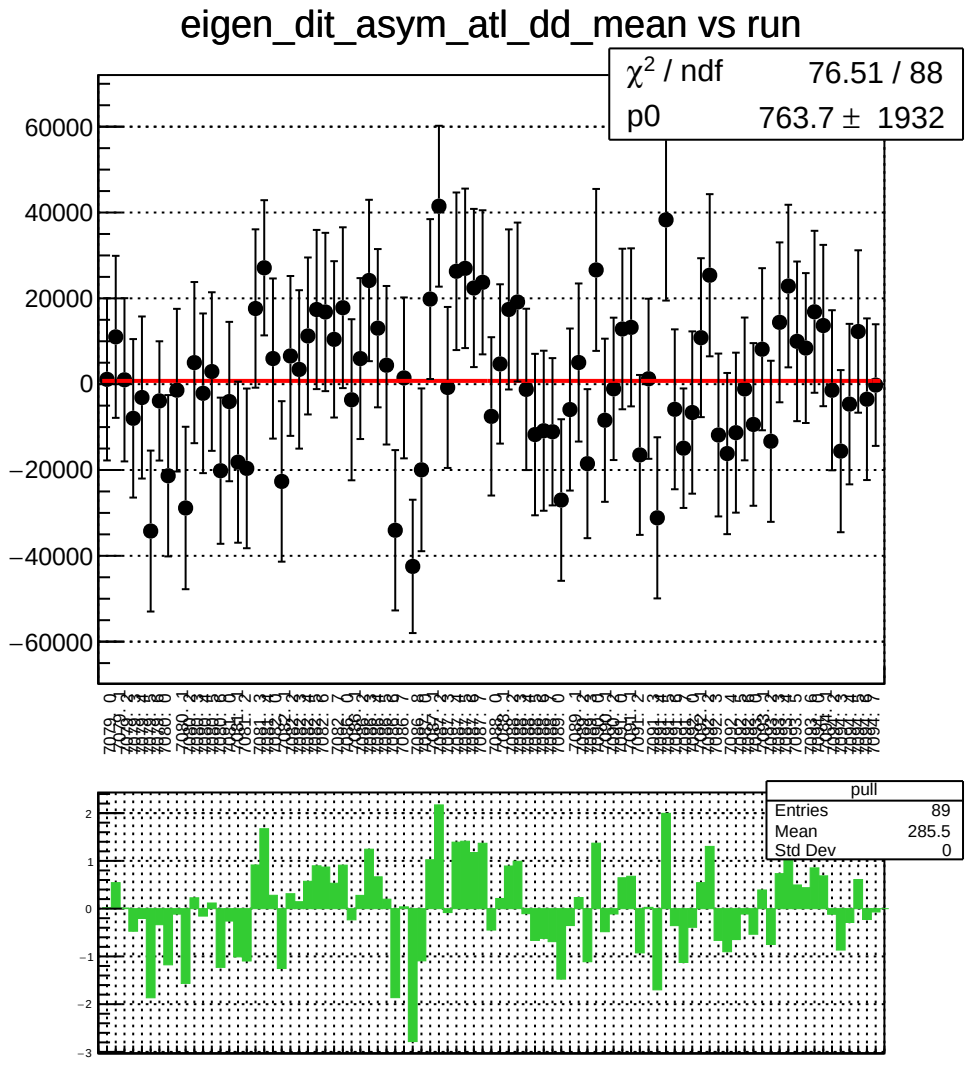

dit_asym_atl_dd_rms vs run
χ² / ndf 145.6 / 88
p0 1774 ± 1.366
1820
1800
1780
1760
1740
1720

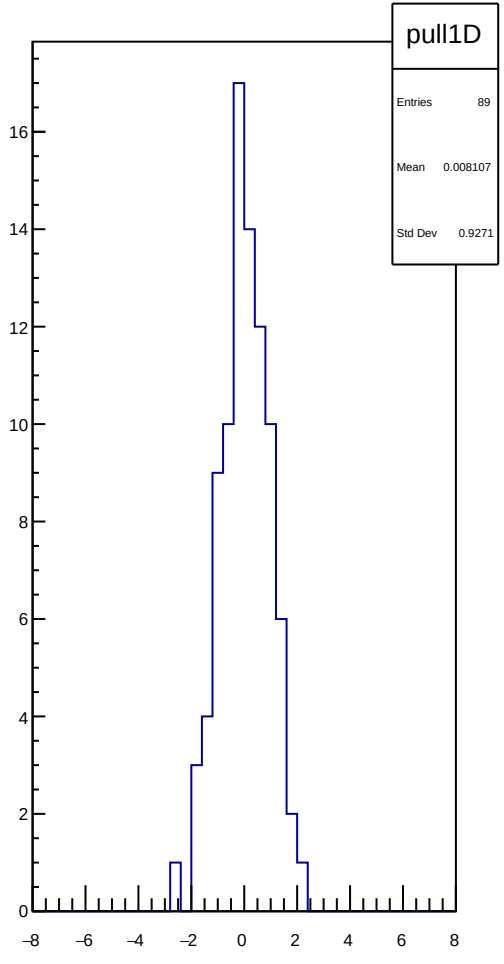

asym_atl_dd_dit_correction_mean vs run
χ^2 / ndf 66.17 / 88
p0 1805 ± 6293
pull
Entries 89
Mean −793.9
Std Dev 0

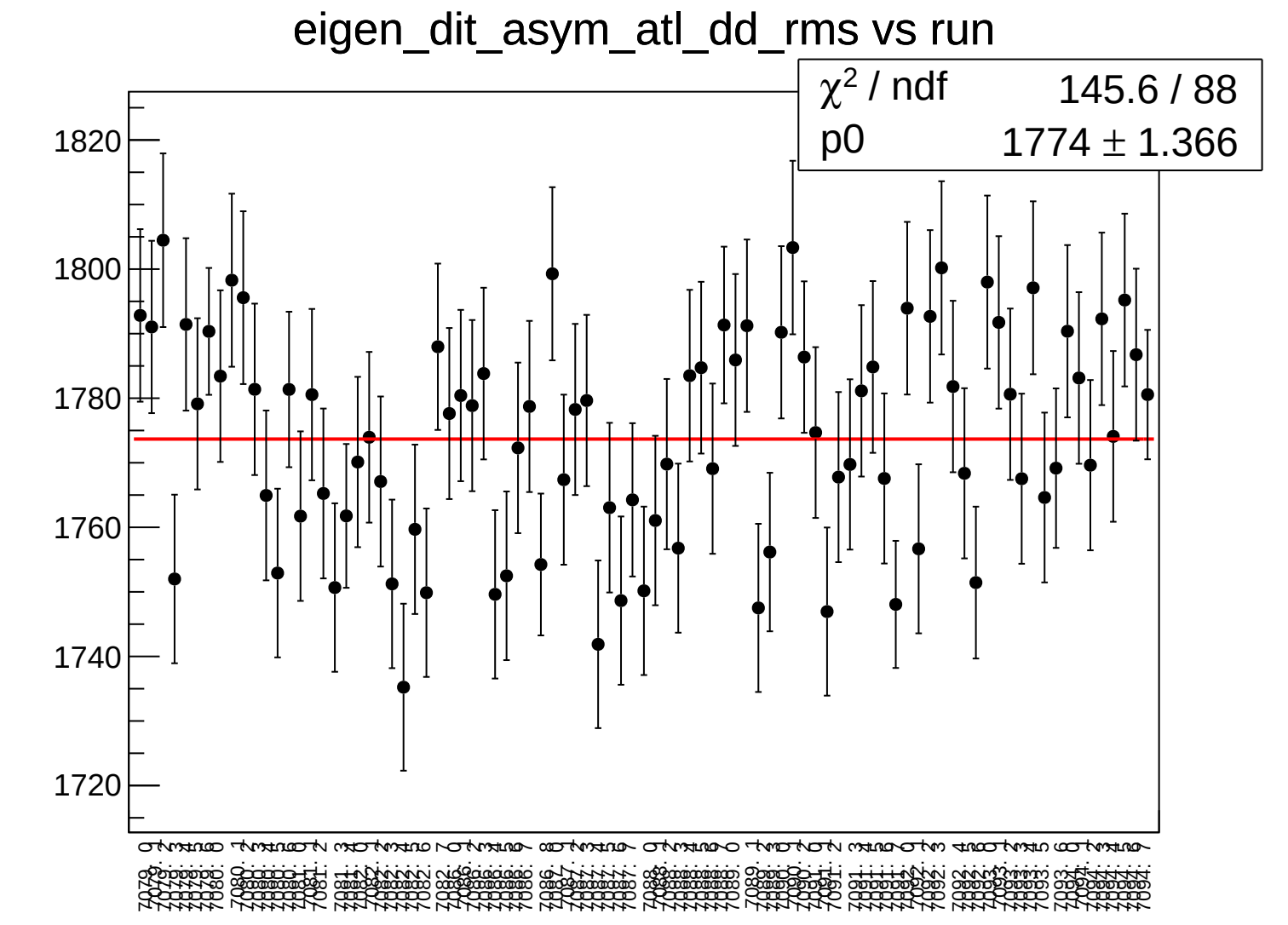

pull1D
Entries 89
Mean −0.001534
Std Dev 0.8622

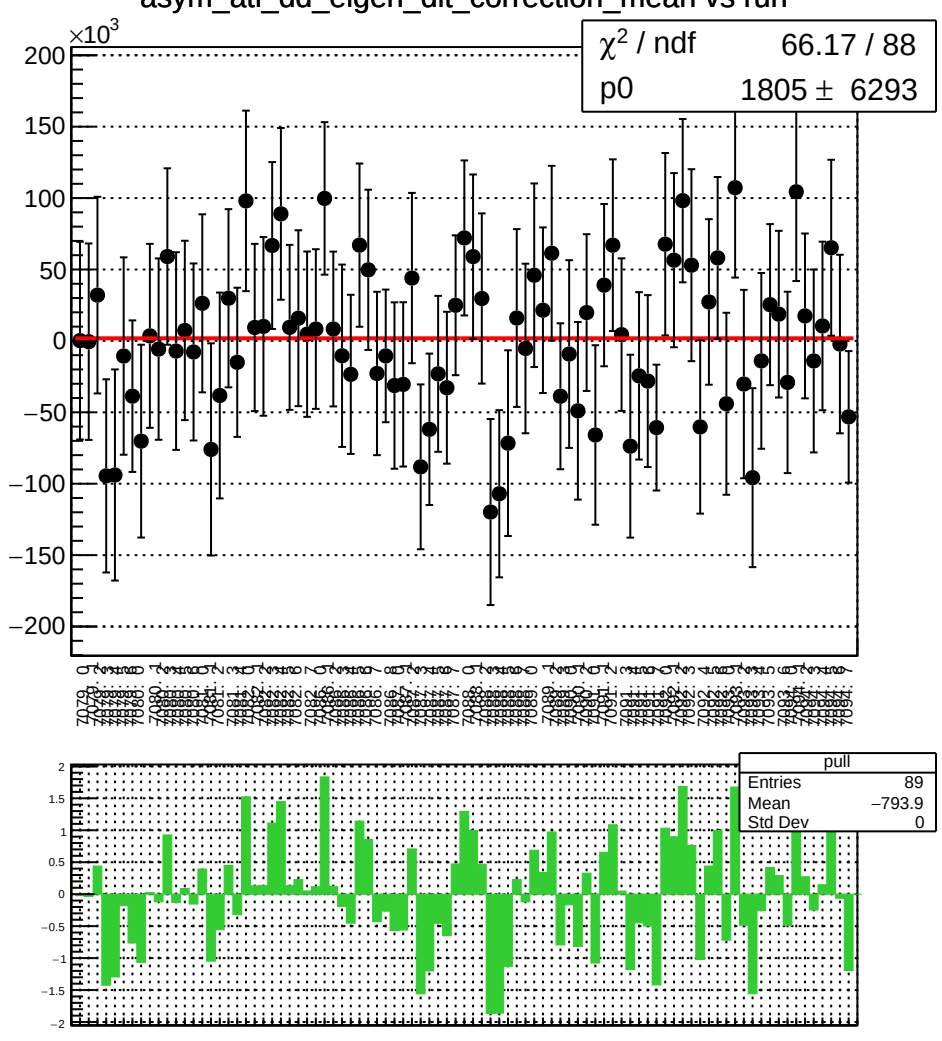
asym_atl_dd_dit_correction_rms vs run

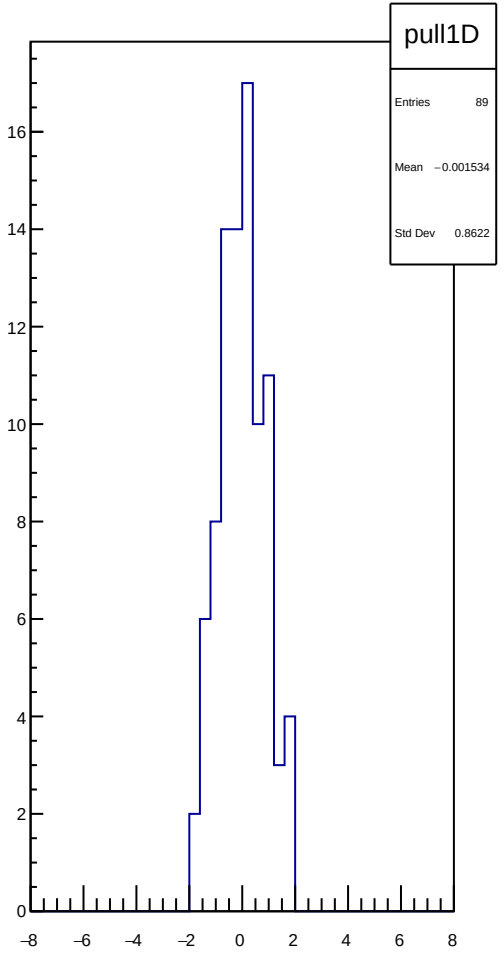


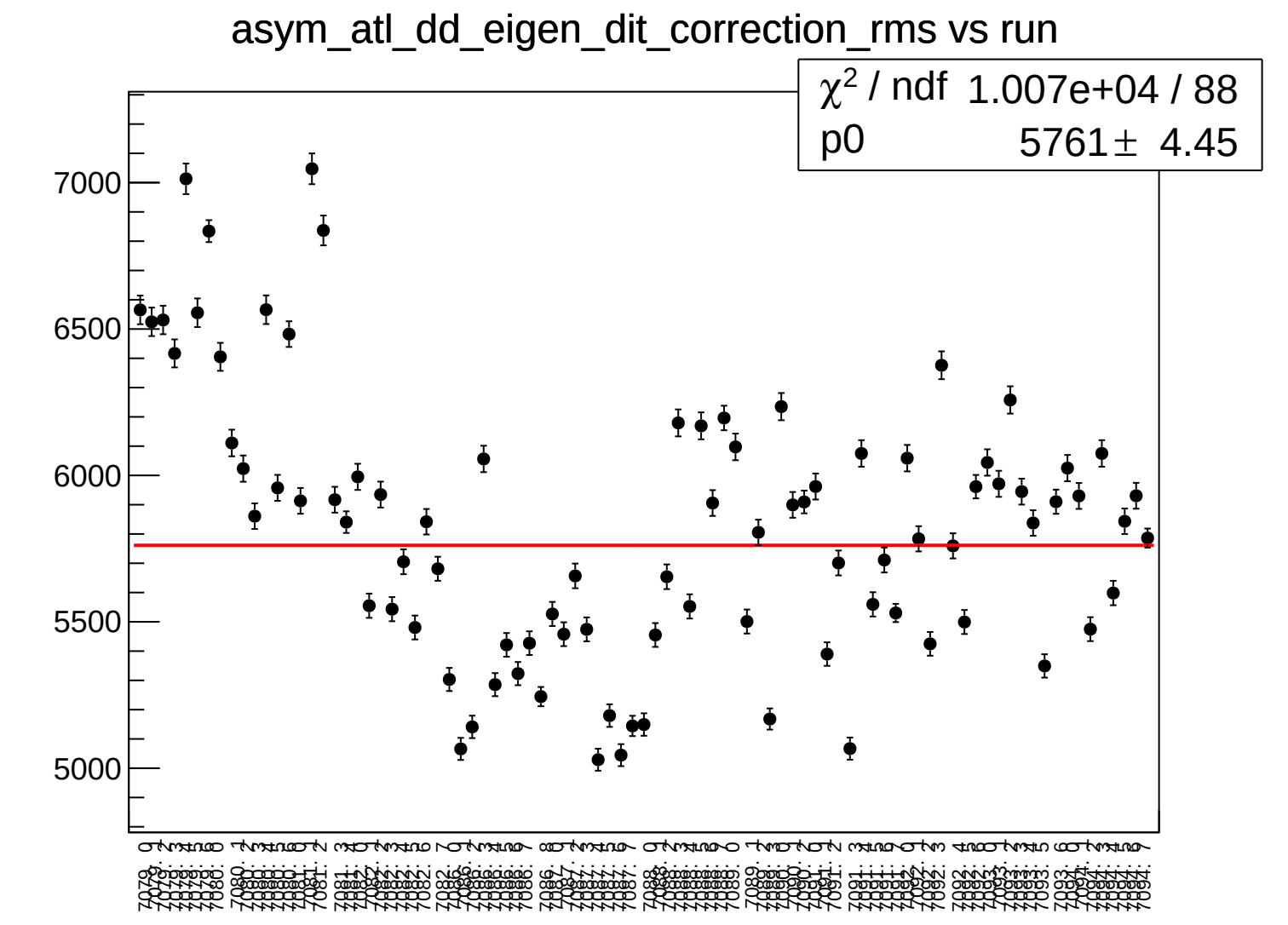

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 76.51 / 88
p0 763.7 ± 1932
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 285.5
Std Dev 0
2
1
0
−1
−2
−3

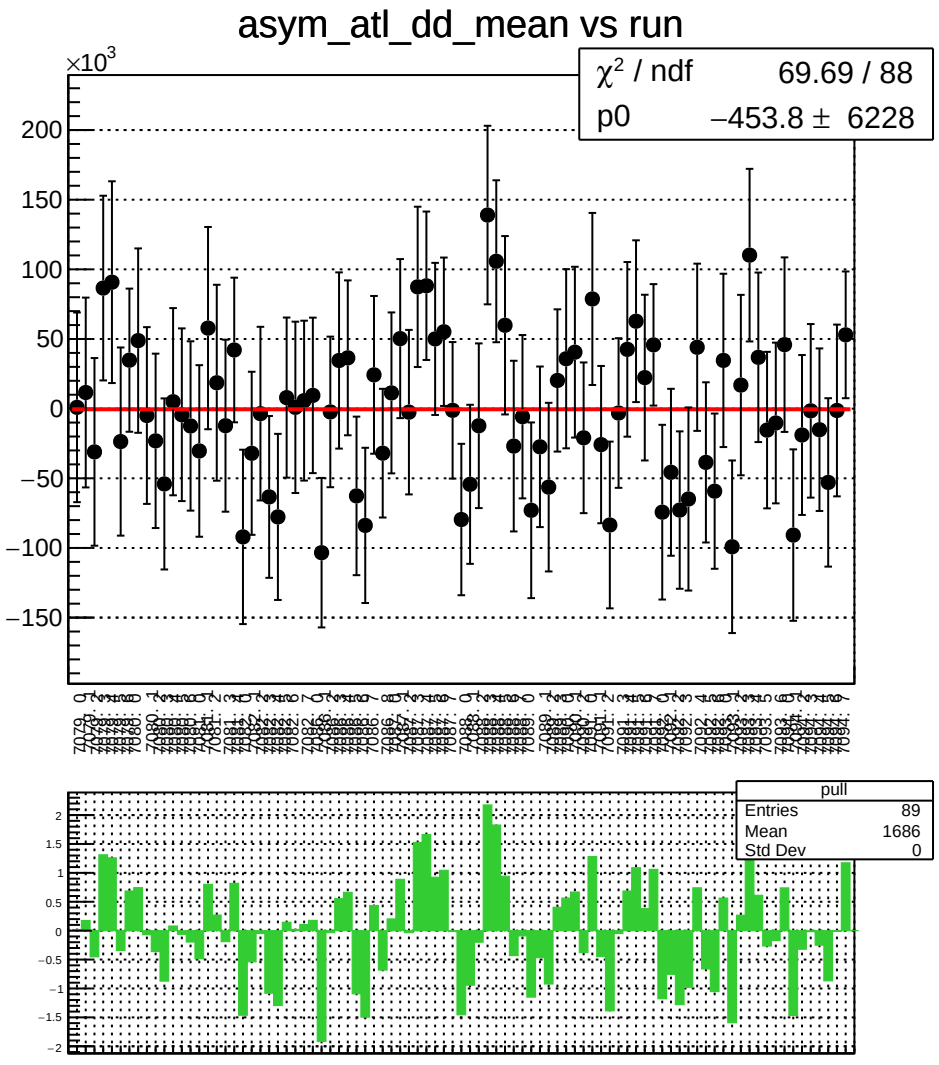

pull1D
Entries 89
Mean 0.008107
Std Dev 0.9271
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

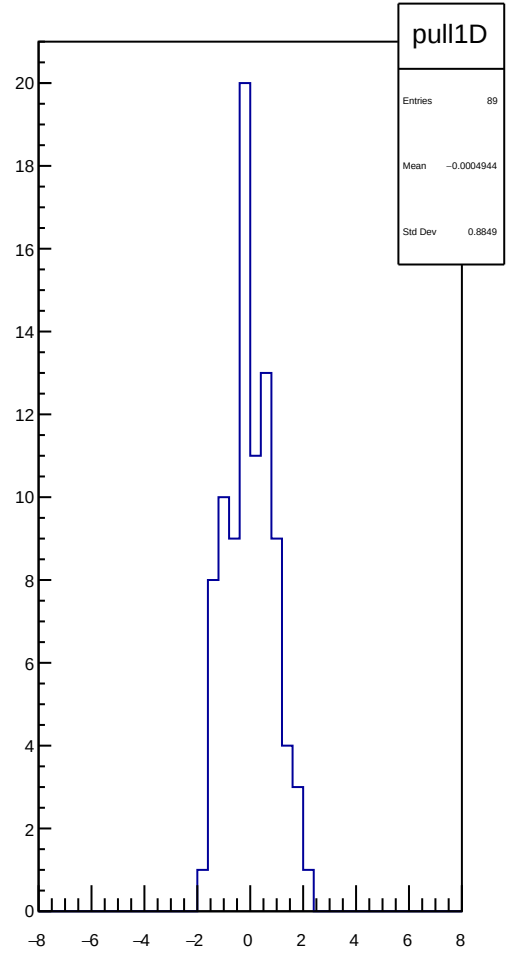

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 145.6 / 88
p0 1774 ± 1.366
1820
1800
1780
1760
1740
1720

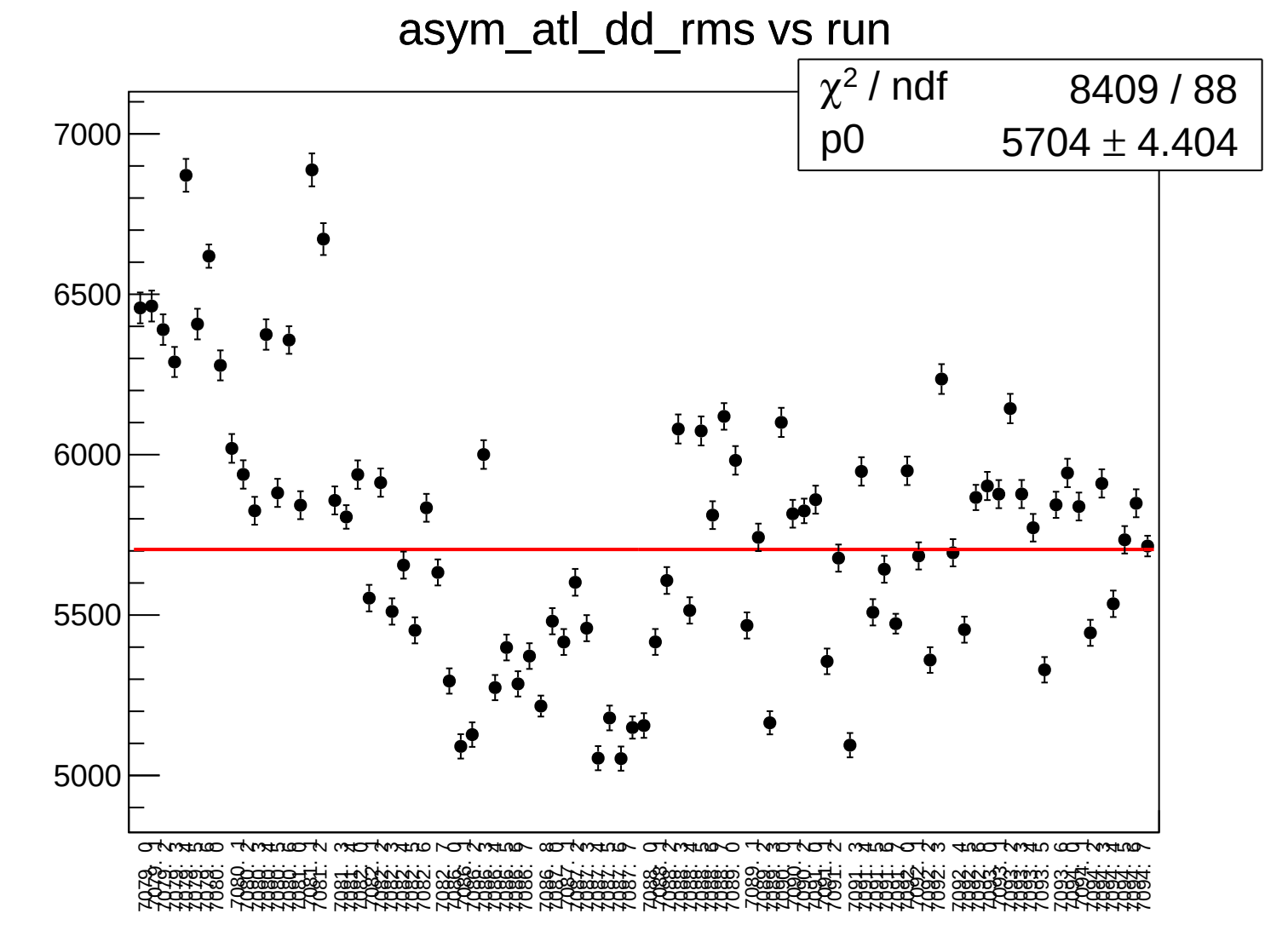

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.17 / 88
p0 1805 ± 6293
pull
Entries 89
Mean −793.9
Std Dev 0

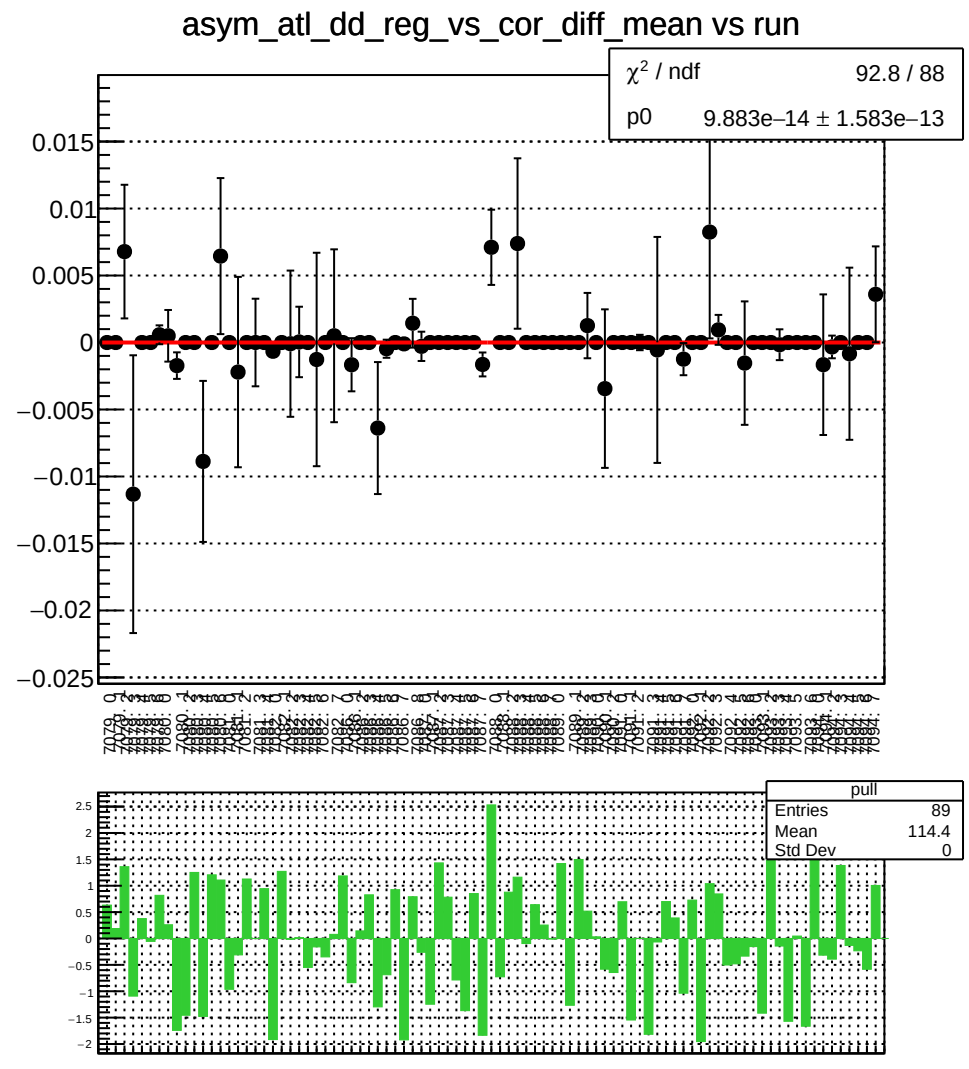

pull1D
Entries 89
Mean −0.001534
Std Dev 0.8622

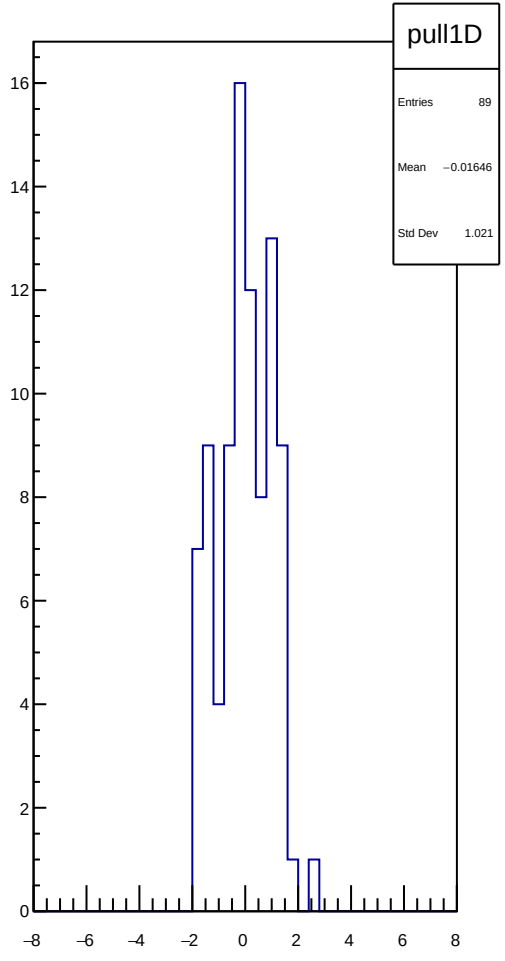

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.007e+04 / 88
p0 5761 ± 4.45
7000
6500
6000
5500
5000

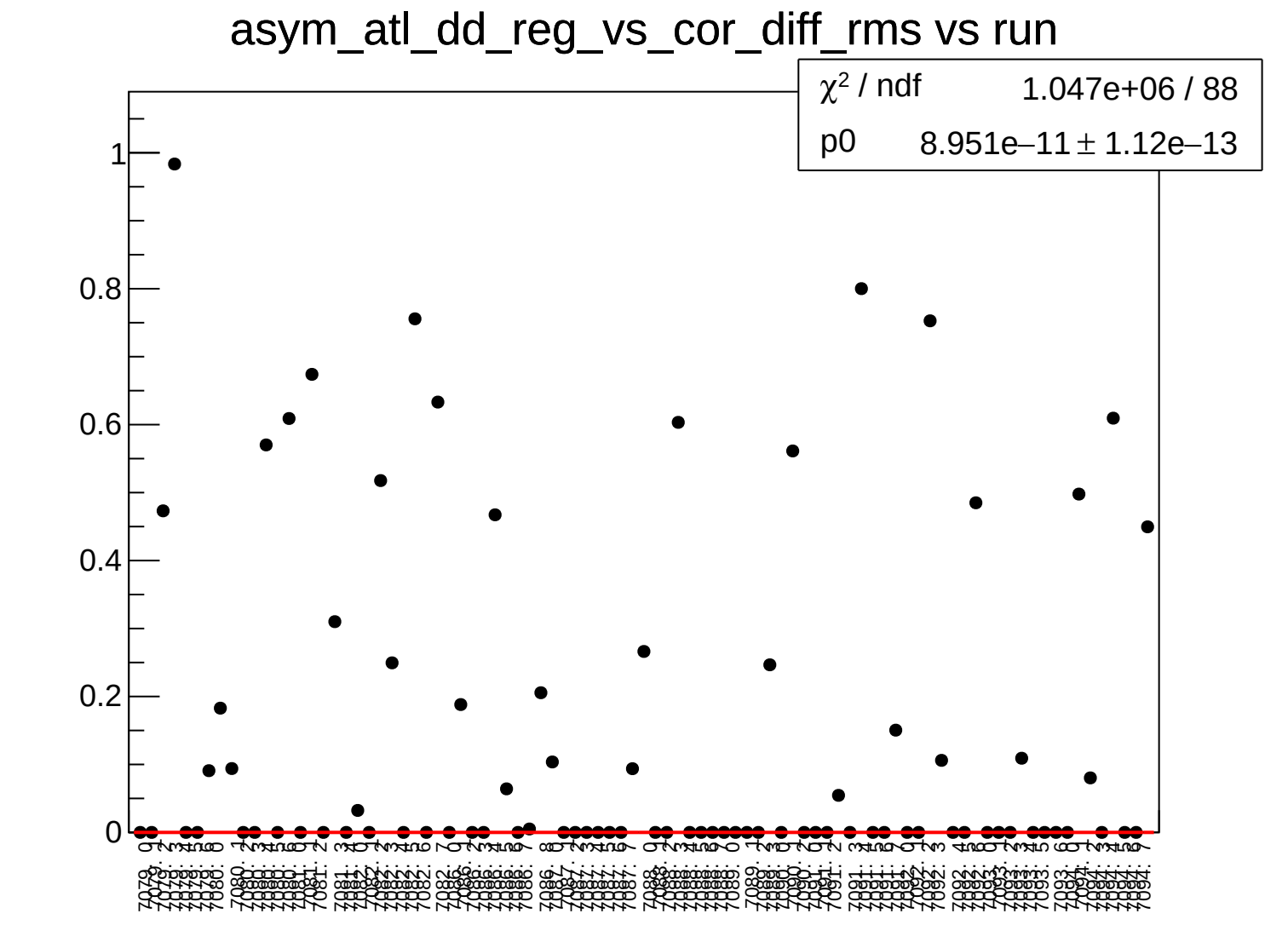

asym_atl_dd_mean vs run
×10^3
χ² / ndf 69.69 / 88
p0 −453.8 ± 6228
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 1686
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

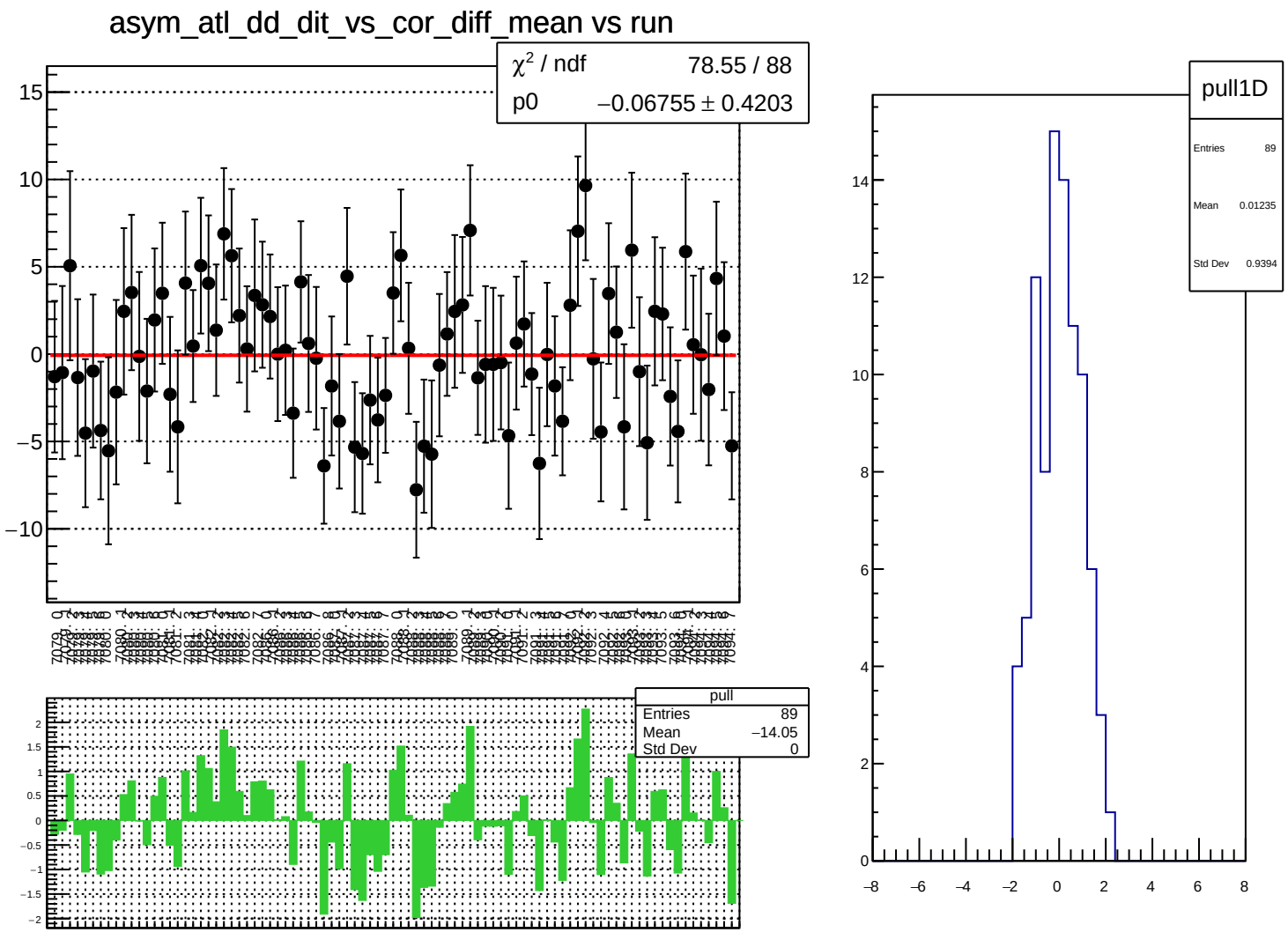

pull1D
Entries 89
Mean −0.0004944
Std Dev 0.8849
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

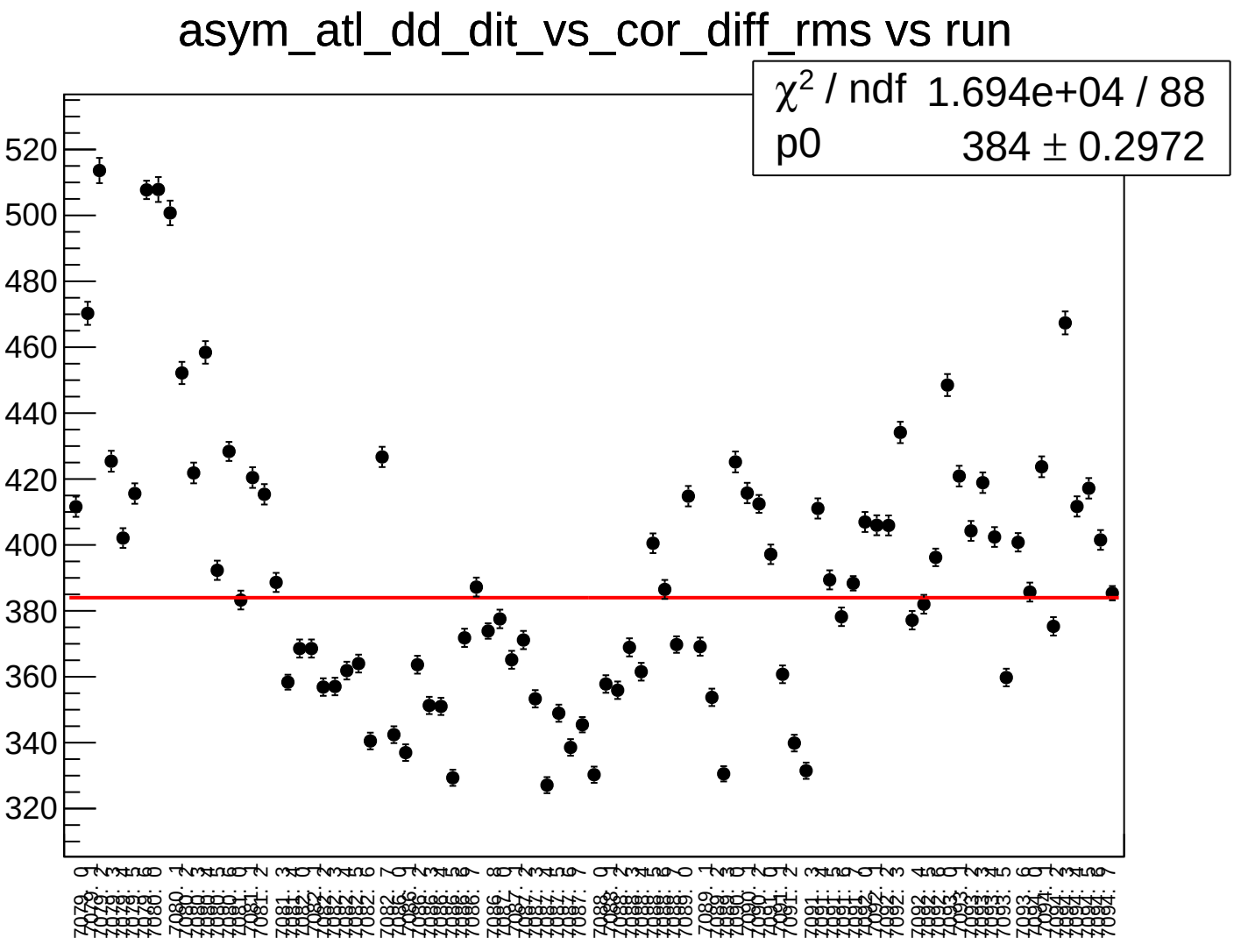

asym_atl_dd_rms vs run
χ² / ndf 8409 / 88
p0 5704 ± 4.404
7000
6500
6000
5500
5000

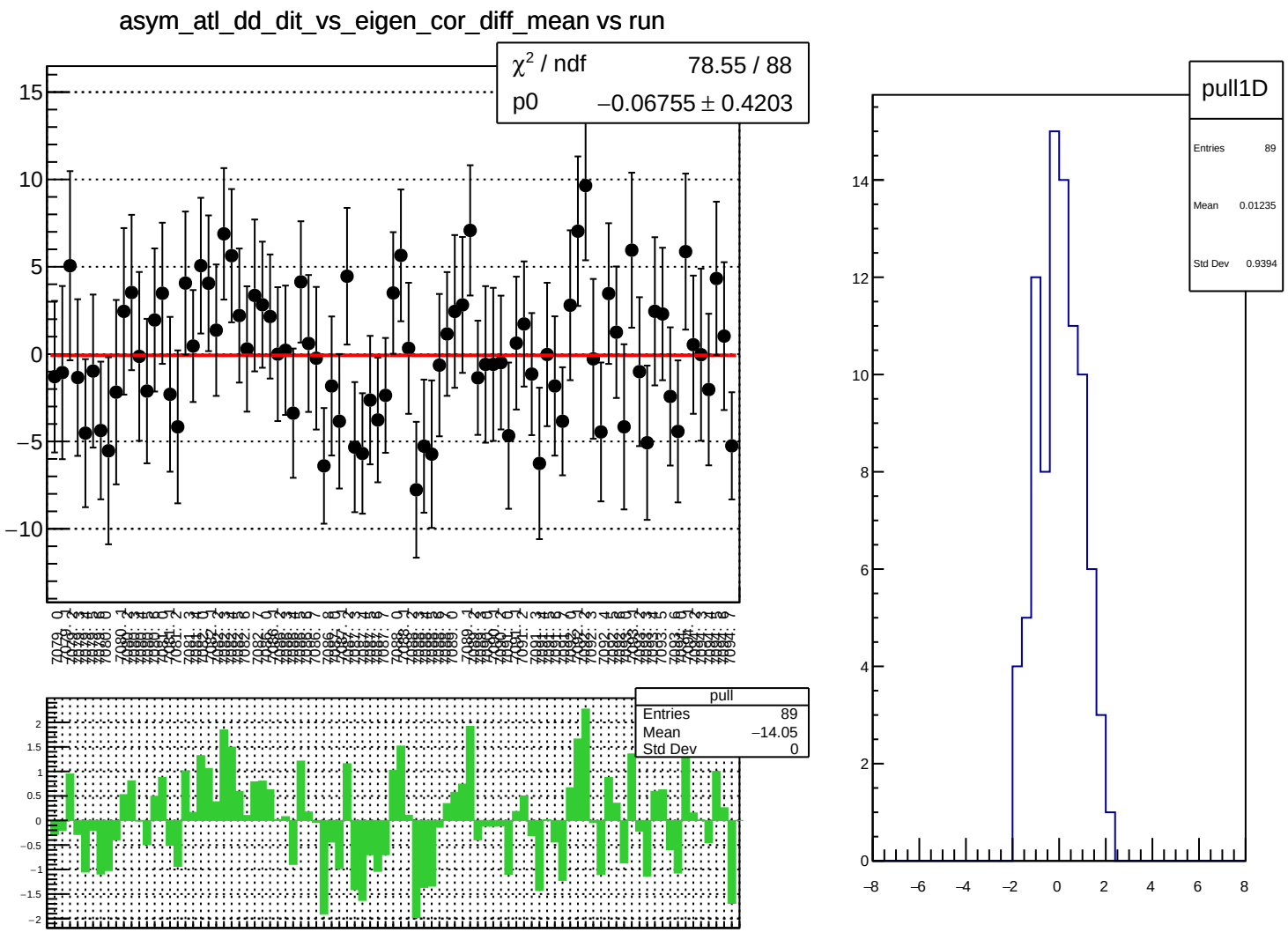

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.8 / 88
p0 9.883e−14 ± 1.583e−13
pull
Entries 89
Mean 114.4
Std Dev 0

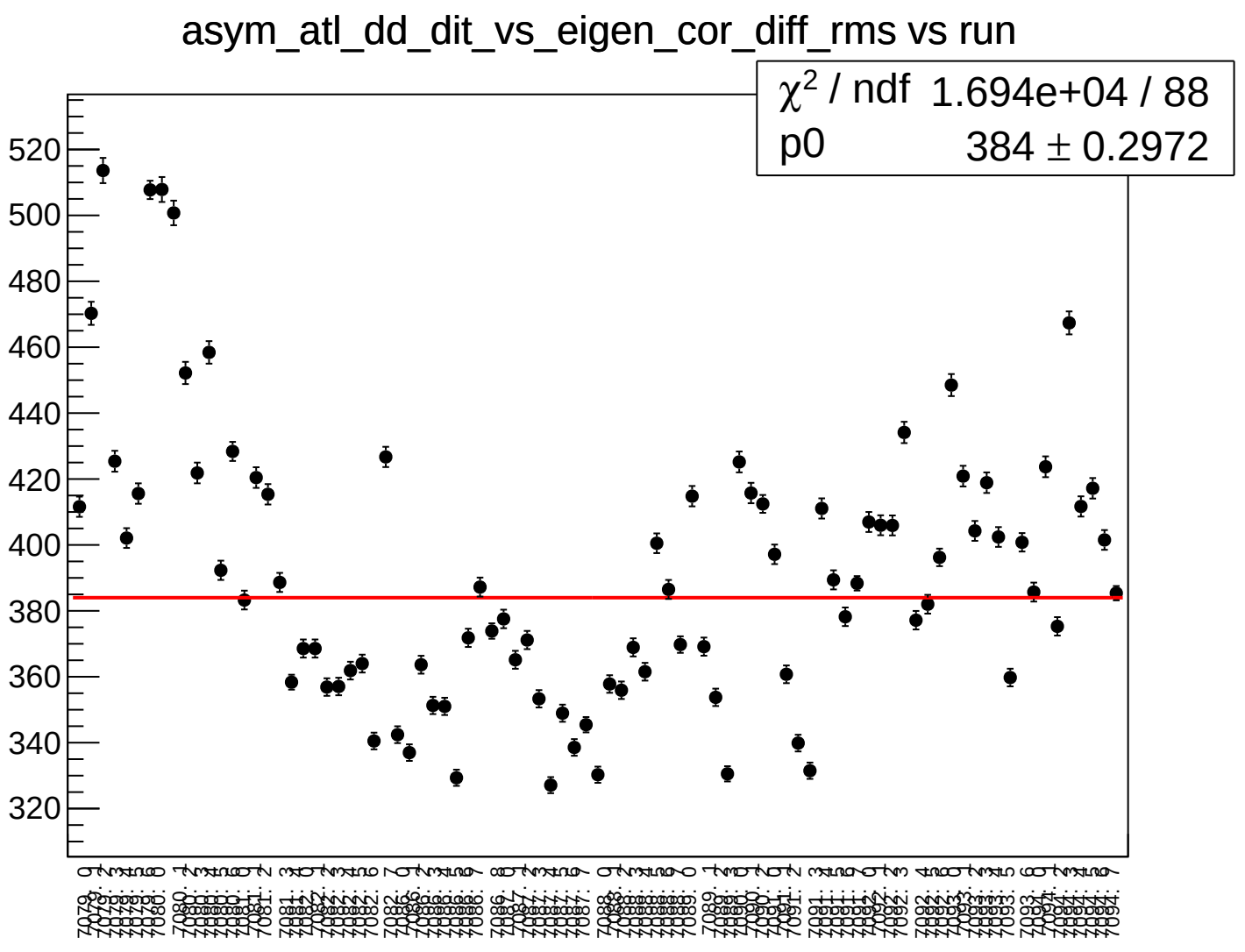

pull1D
Entries 89
Mean −0.01646
Std Dev 1.021

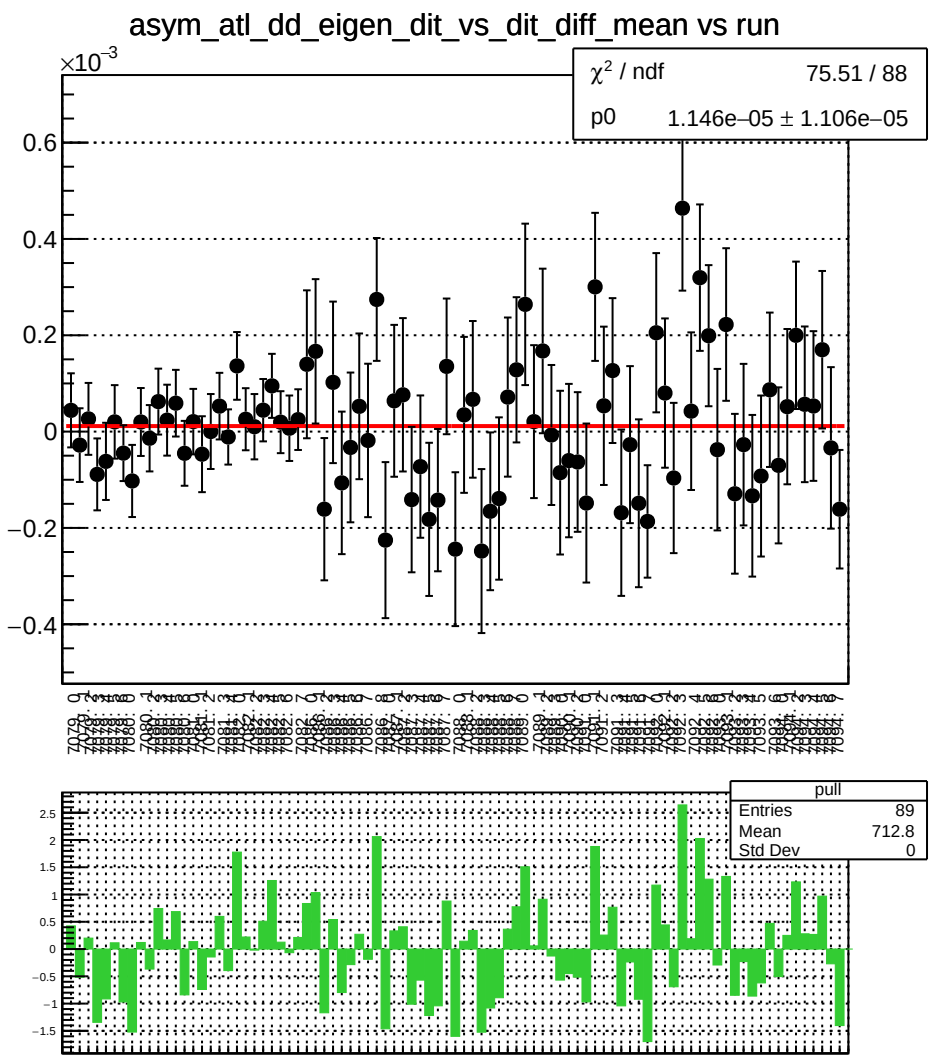

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.047e+06 / 88
p0 8.951e−11 ± 1.12e−13
1
0.8
0.6
0.4
0.2
0

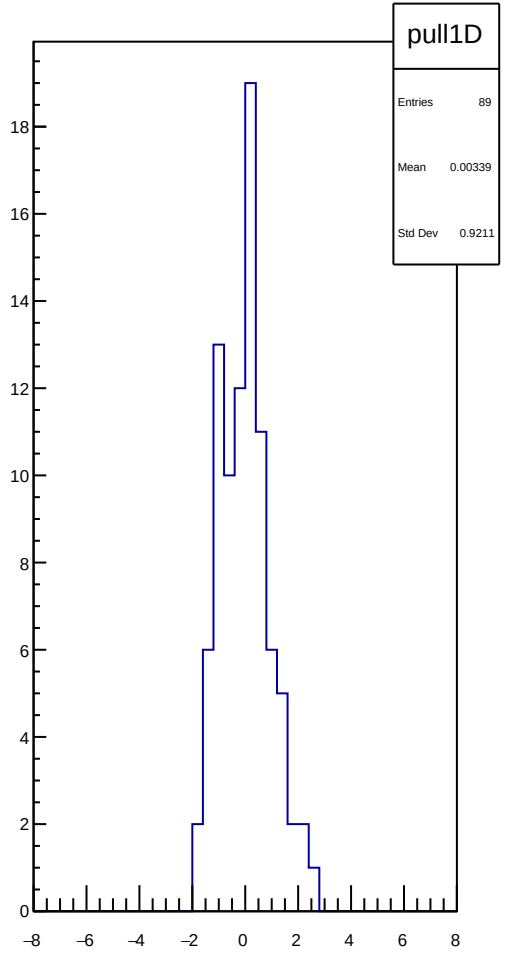

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.55 / 88
p0 −0.06755 ± 0.4203
pull
Entries 89
Mean −14.05
Std Dev 0
pull1D
Entries 89
Mean 0.01235
Std Dev 0.9394

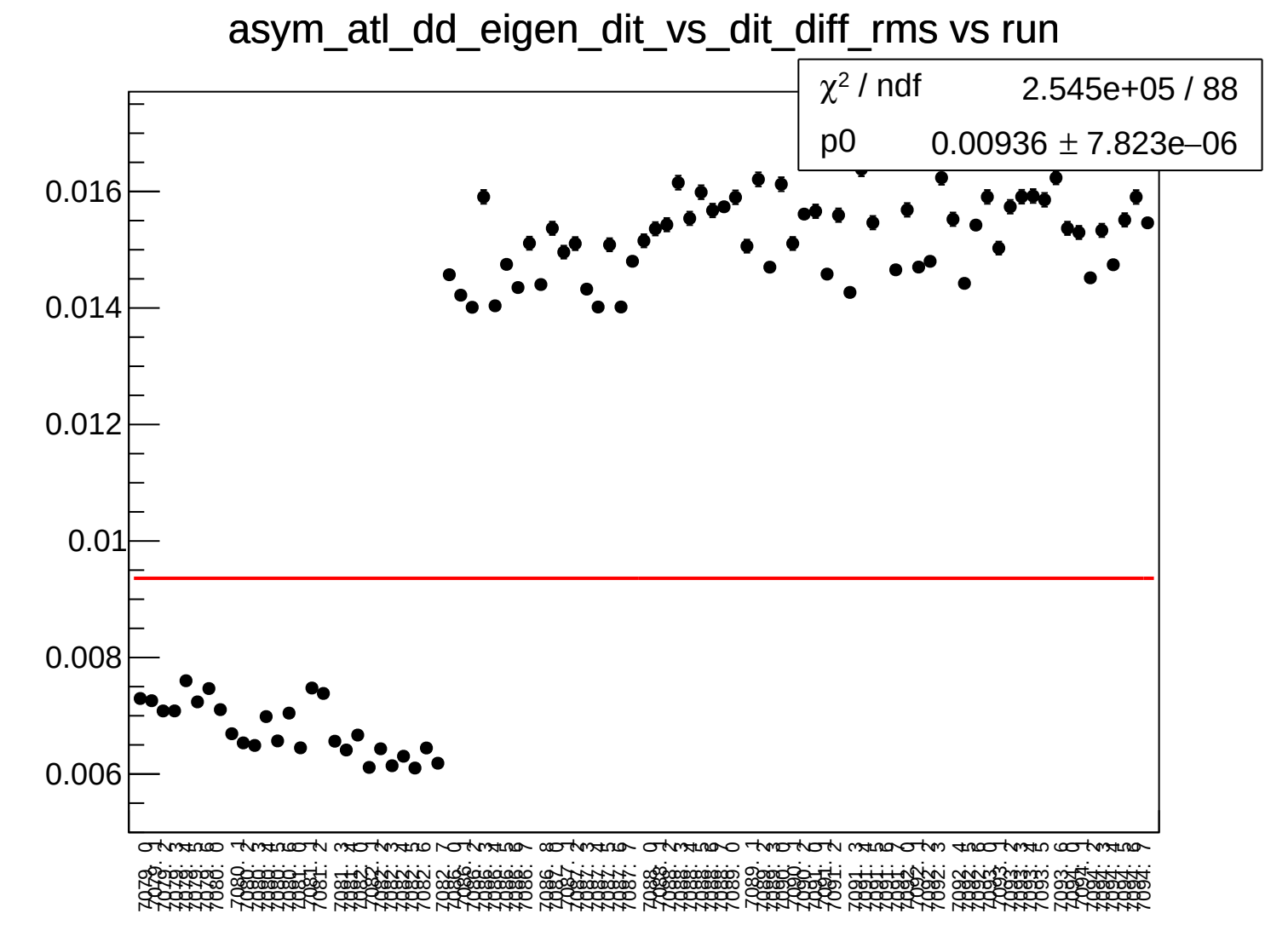

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.694e+04 / 88
p0 384 ± 0.2972
520
500
480
460
440
420
400
380
360
340
320

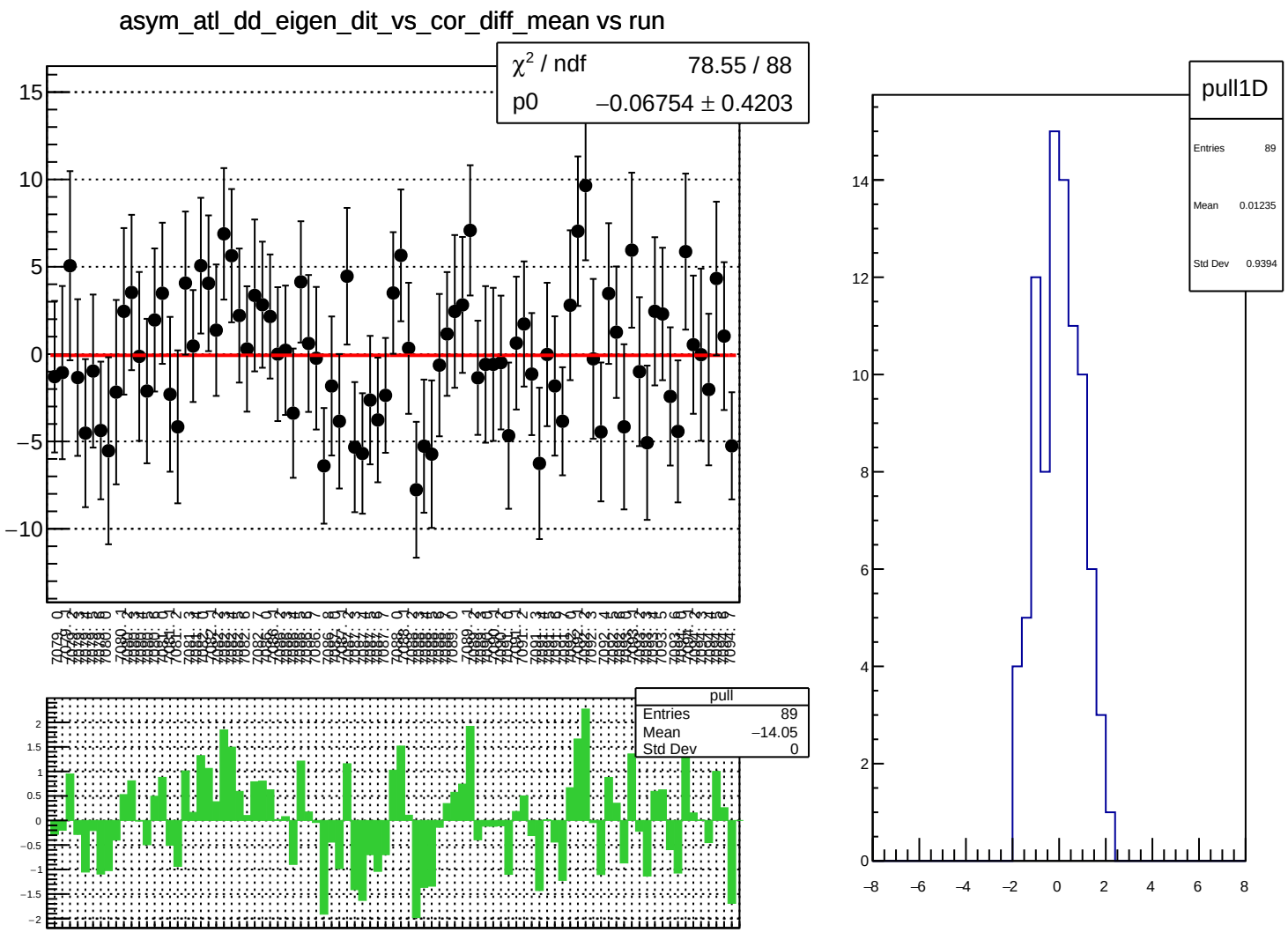

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.55 / 88
p0 −0.06755 ± 0.4203
15
10
5
0
−5
−10
pull
Entries 89
Mean −14.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01235
Std Dev 0.9394
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

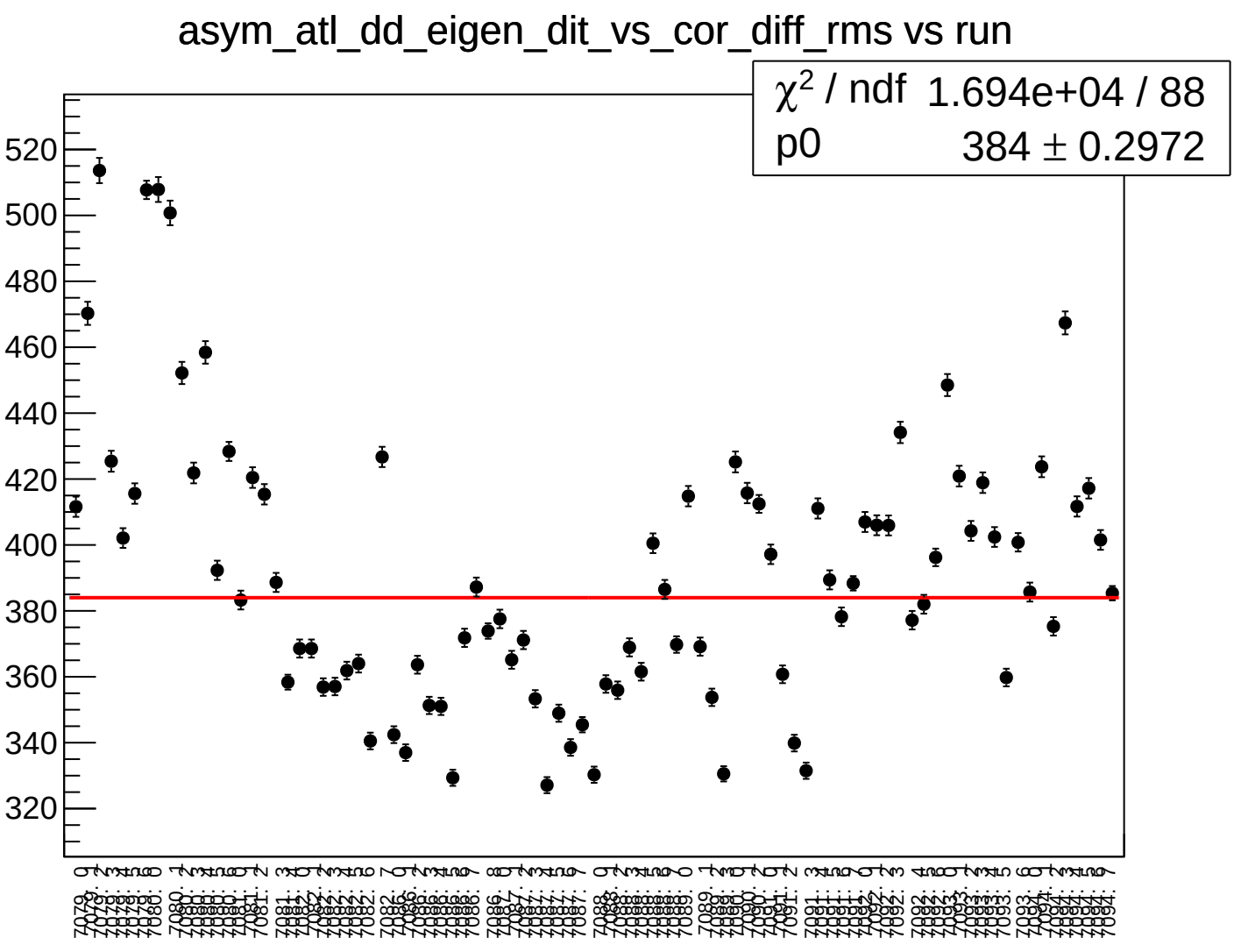

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.694e+04 / 88
p0 384 ± 0.2972
520
500
480
460
440
420
400
380
360
340
320

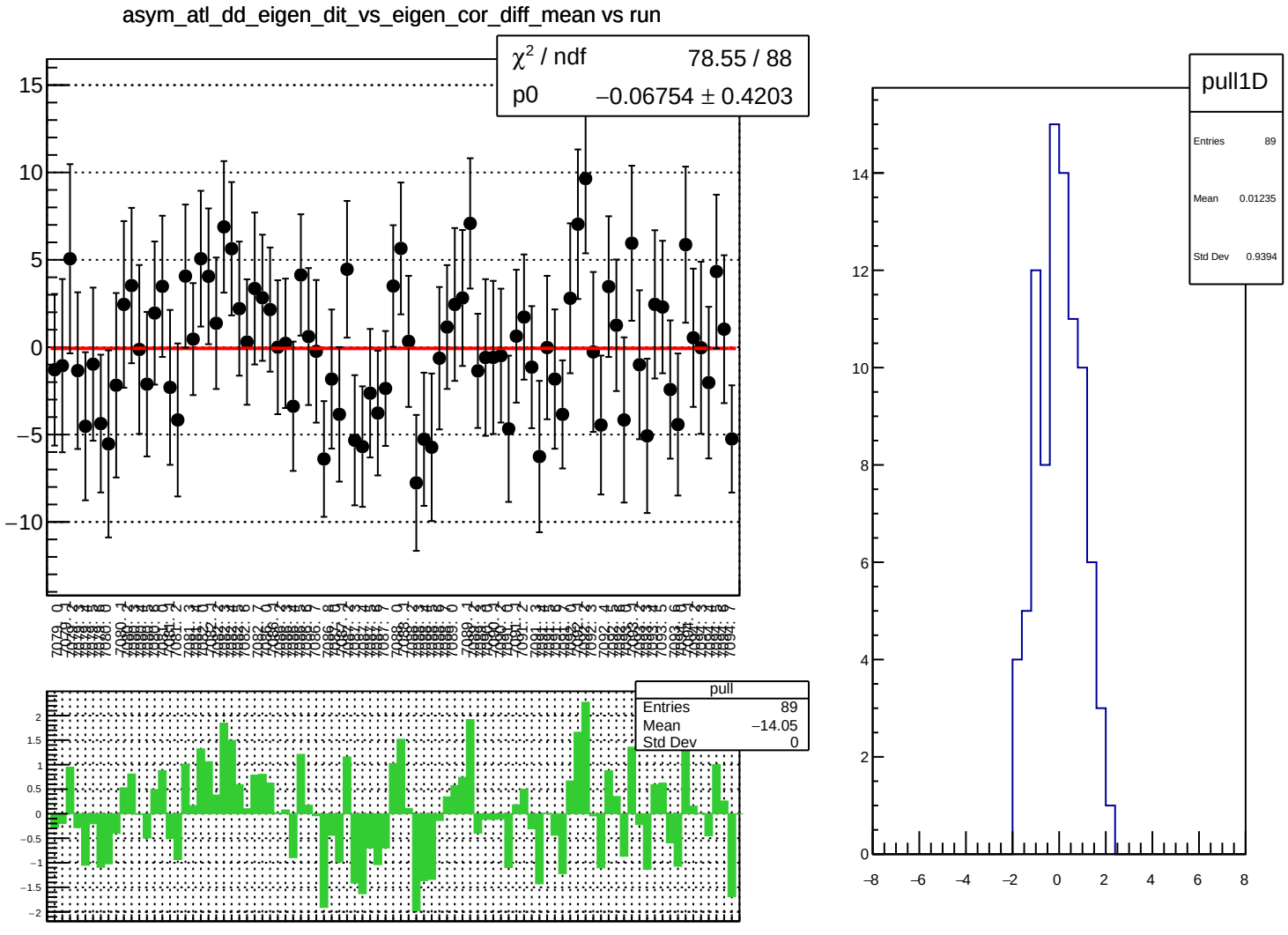

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.51 / 88
p0 1.146e−05 ± 1.106e−05
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 712.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

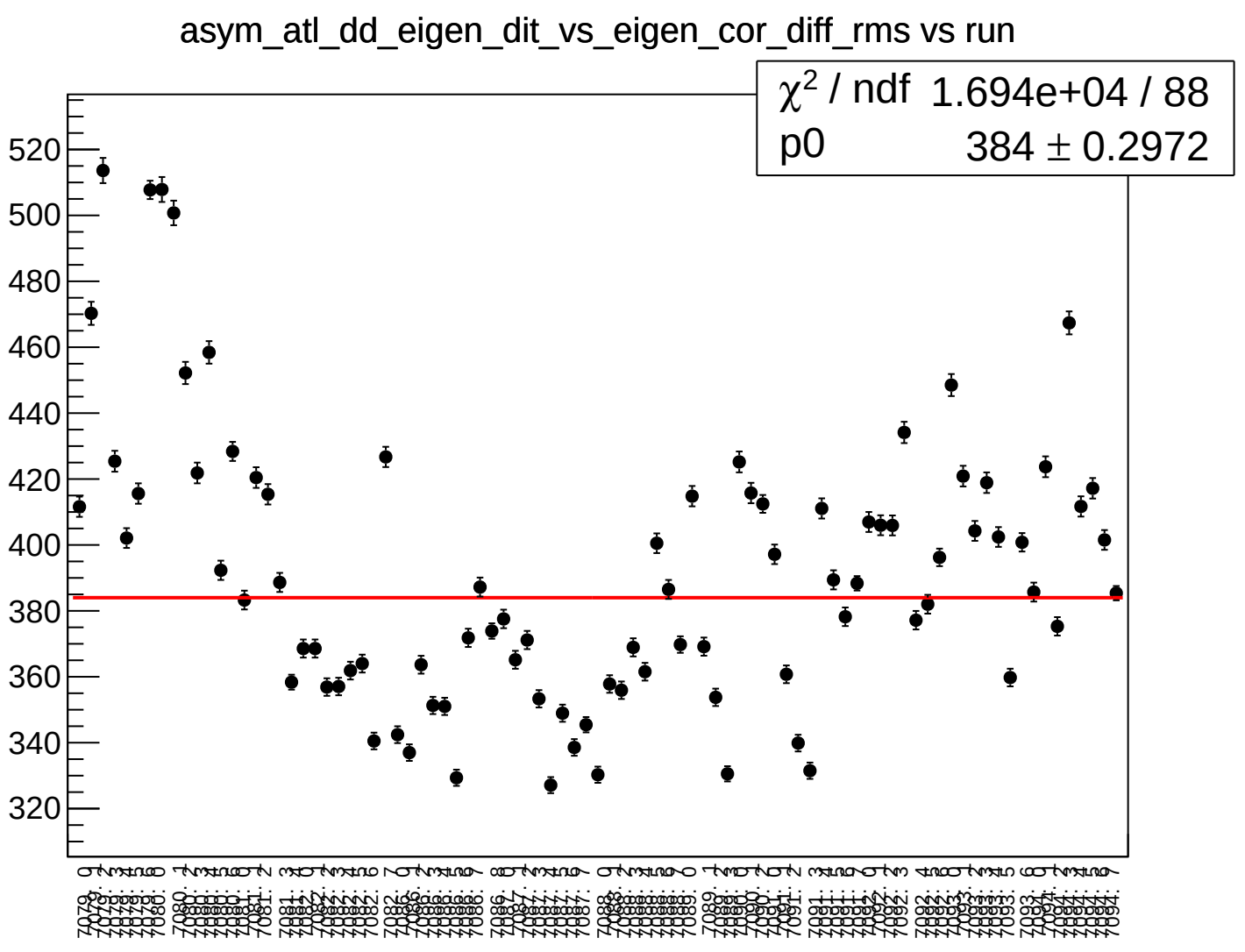

pull1D
Entries 89
Mean 0.00339
Std Dev 0.9211
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.545e+05 / 88
p0 0.00936 ± 7.823e−06
0.016
0.014
0.012
0.01
0.008
0.006

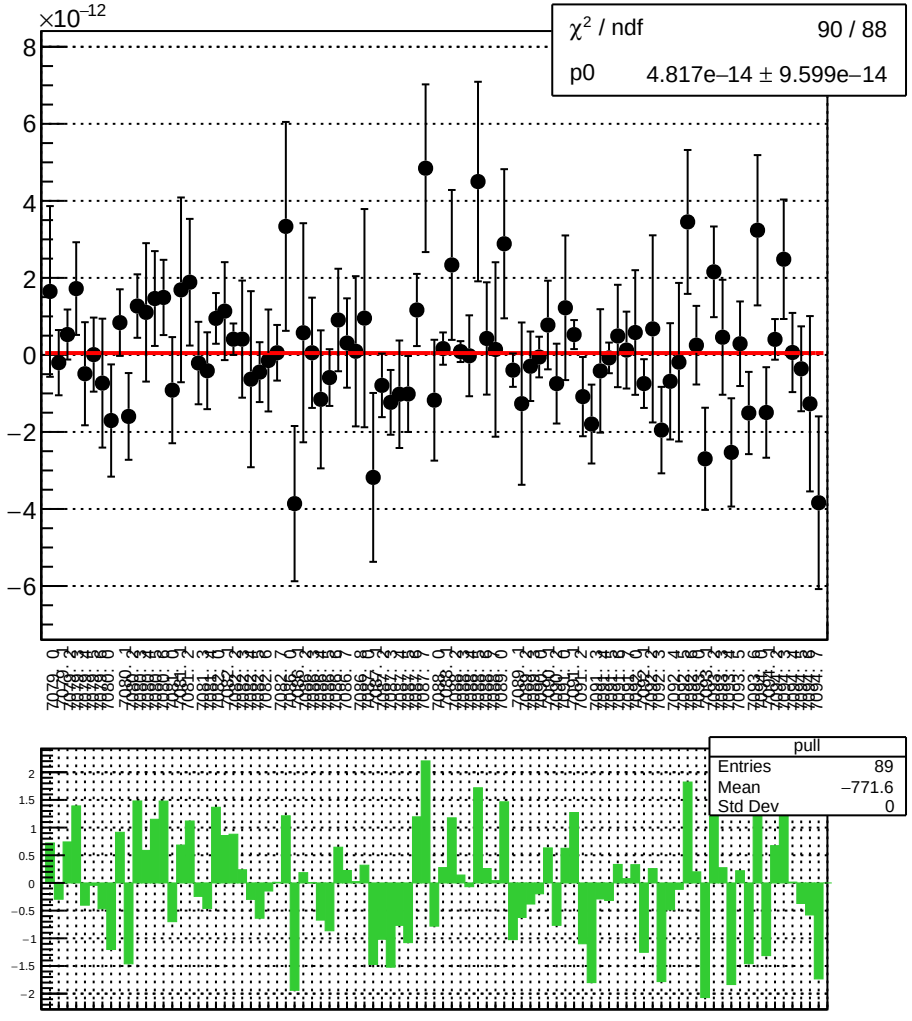

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.55 / 88
p0 −0.06754 ± 0.4203
pull
Entries 89
Mean −14.05
Std Dev 0
pull1D
Entries 89
Mean 0.01235
Std Dev 0.9394

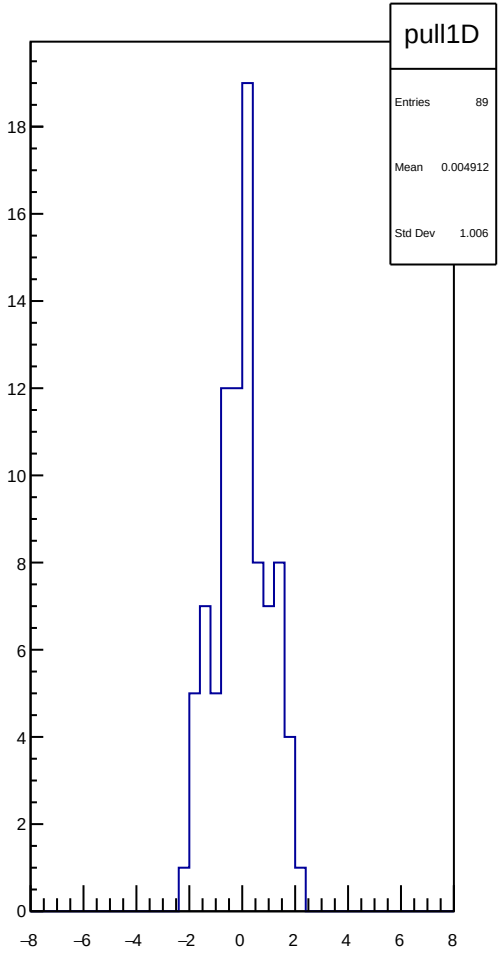

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.694e+04 / 88
p0 384 ± 0.2972
520
500
480
460
440
420
400
380
360
340
320

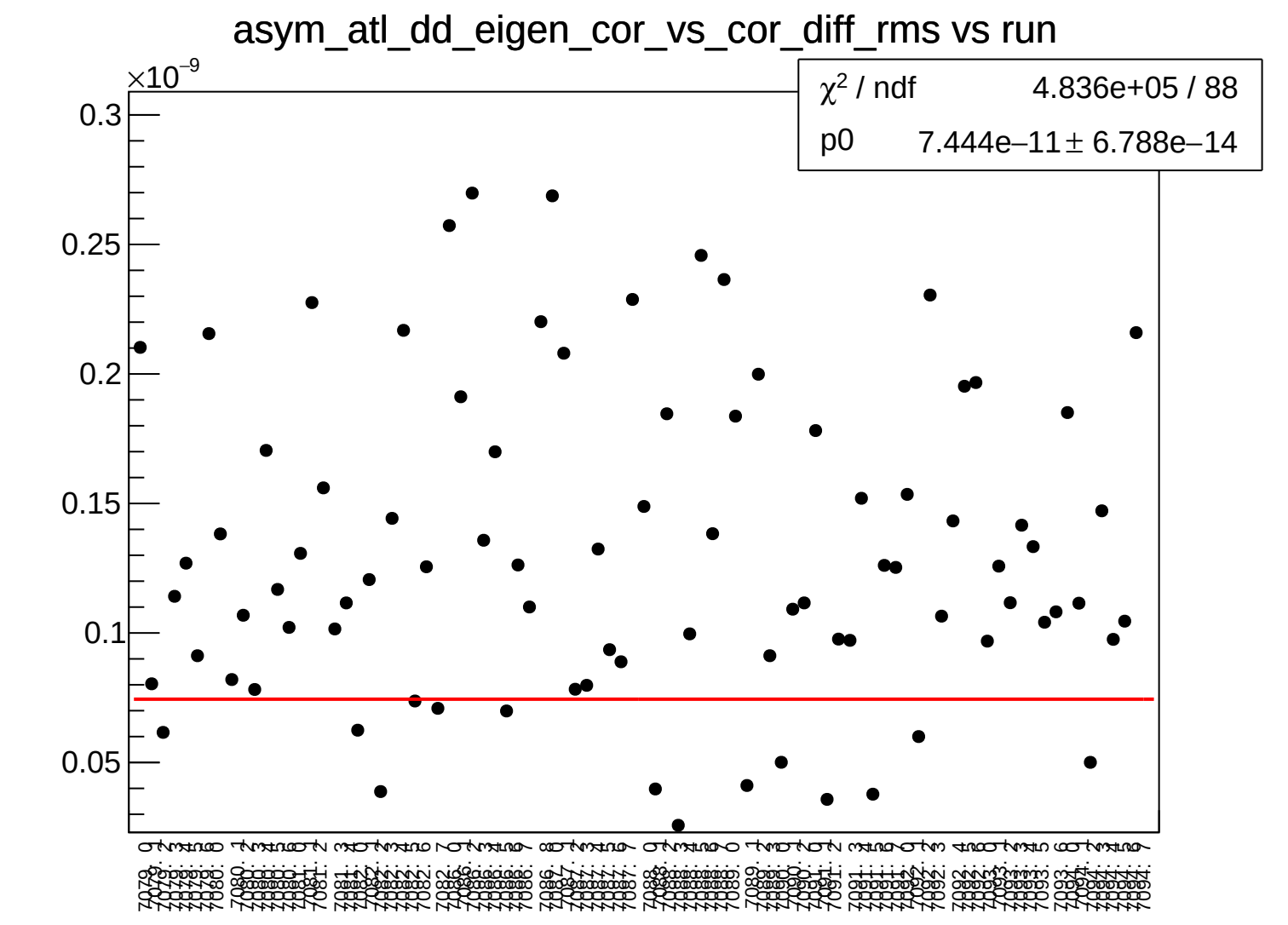

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.55 / 88
p0 −0.06754 ± 0.4203
pull
Entries 89
Mean −14.05
Std Dev 0
pull1D
Entries 89
Mean 0.01235
Std Dev 0.9394

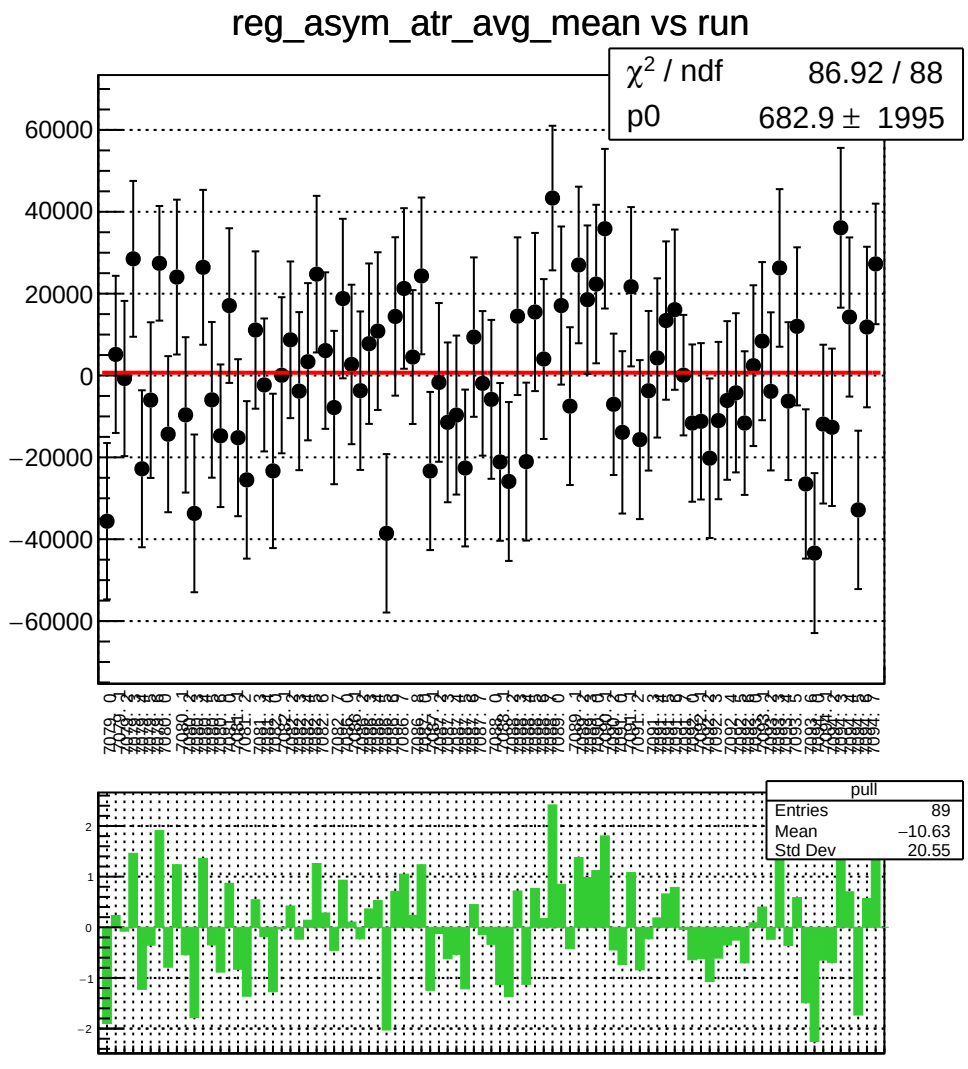

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.694e+04 / 88
p0 384 ± 0.2972
520
500
480
460
440
420
400
380
360
340
320

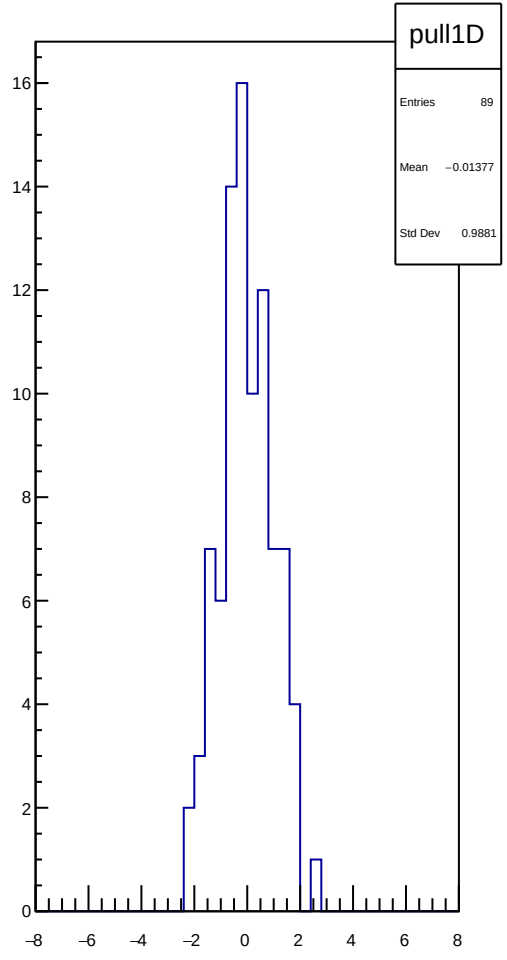
asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run

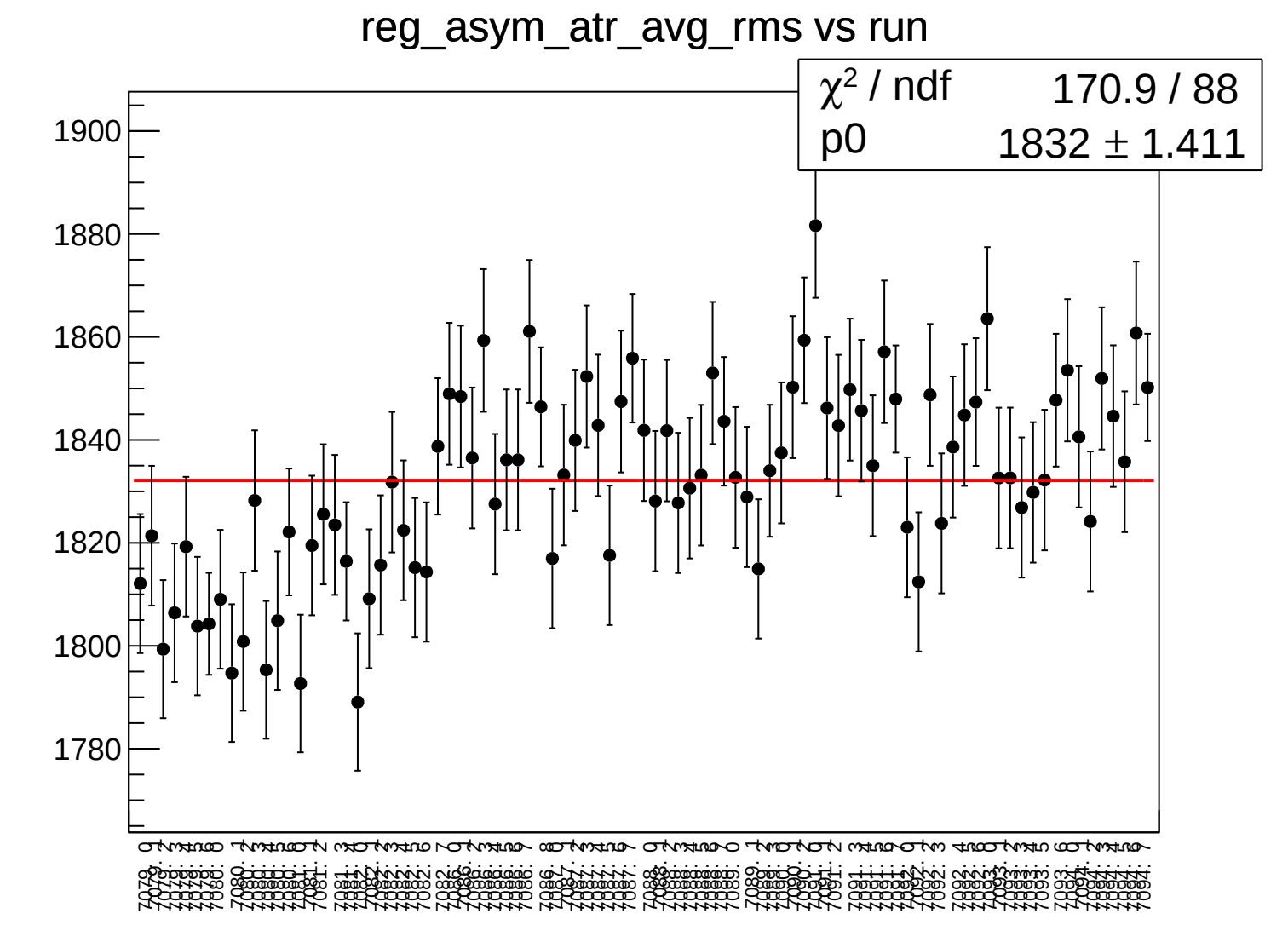


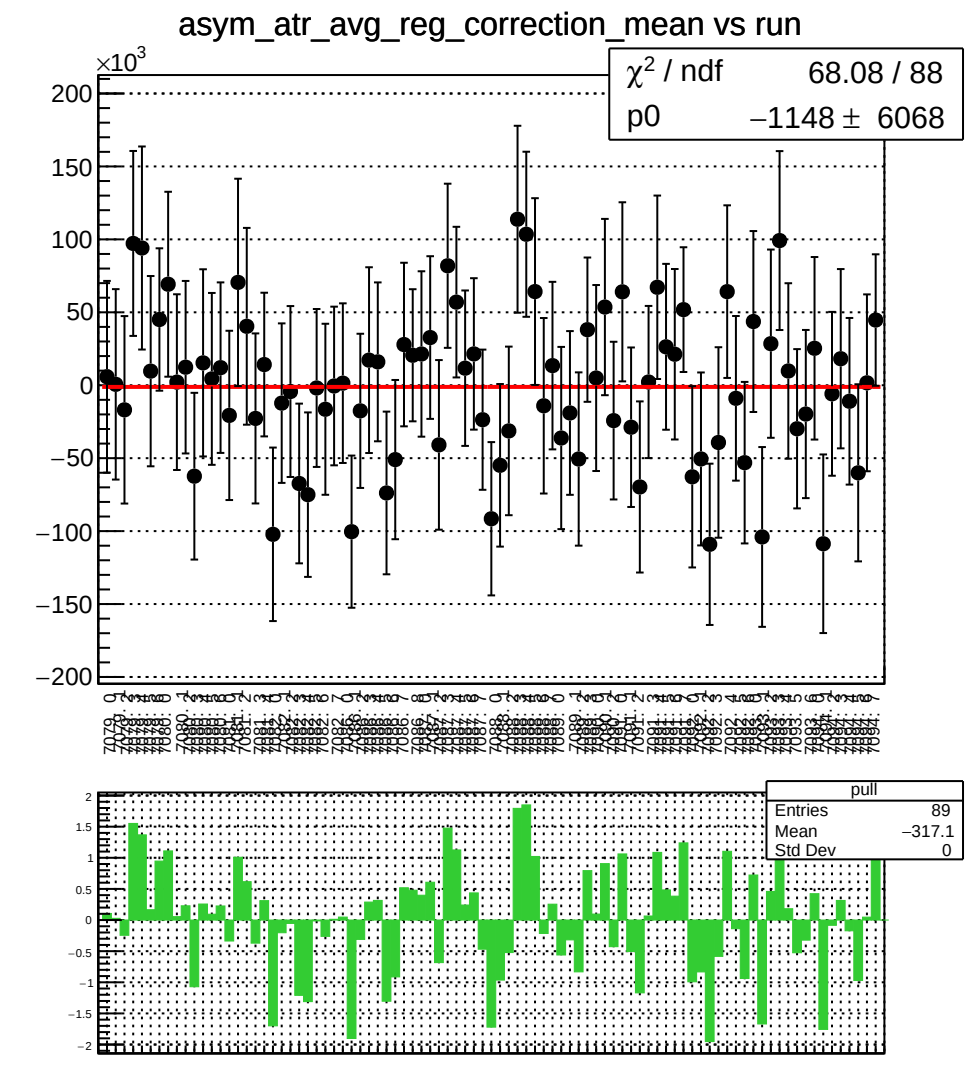


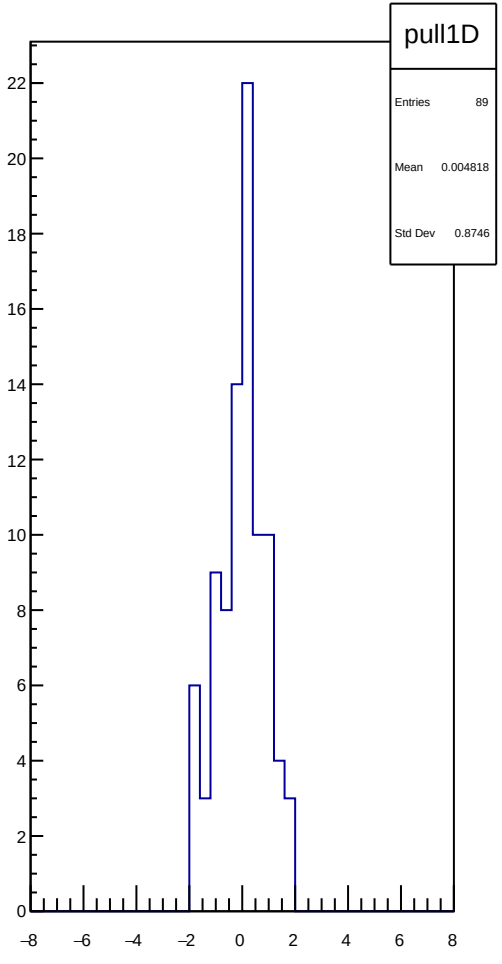

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.836e+05 / 88
p0 7.444e−11 ± 6.788e−14
0.3
0.25
0.2
0.15
0.1
0.05

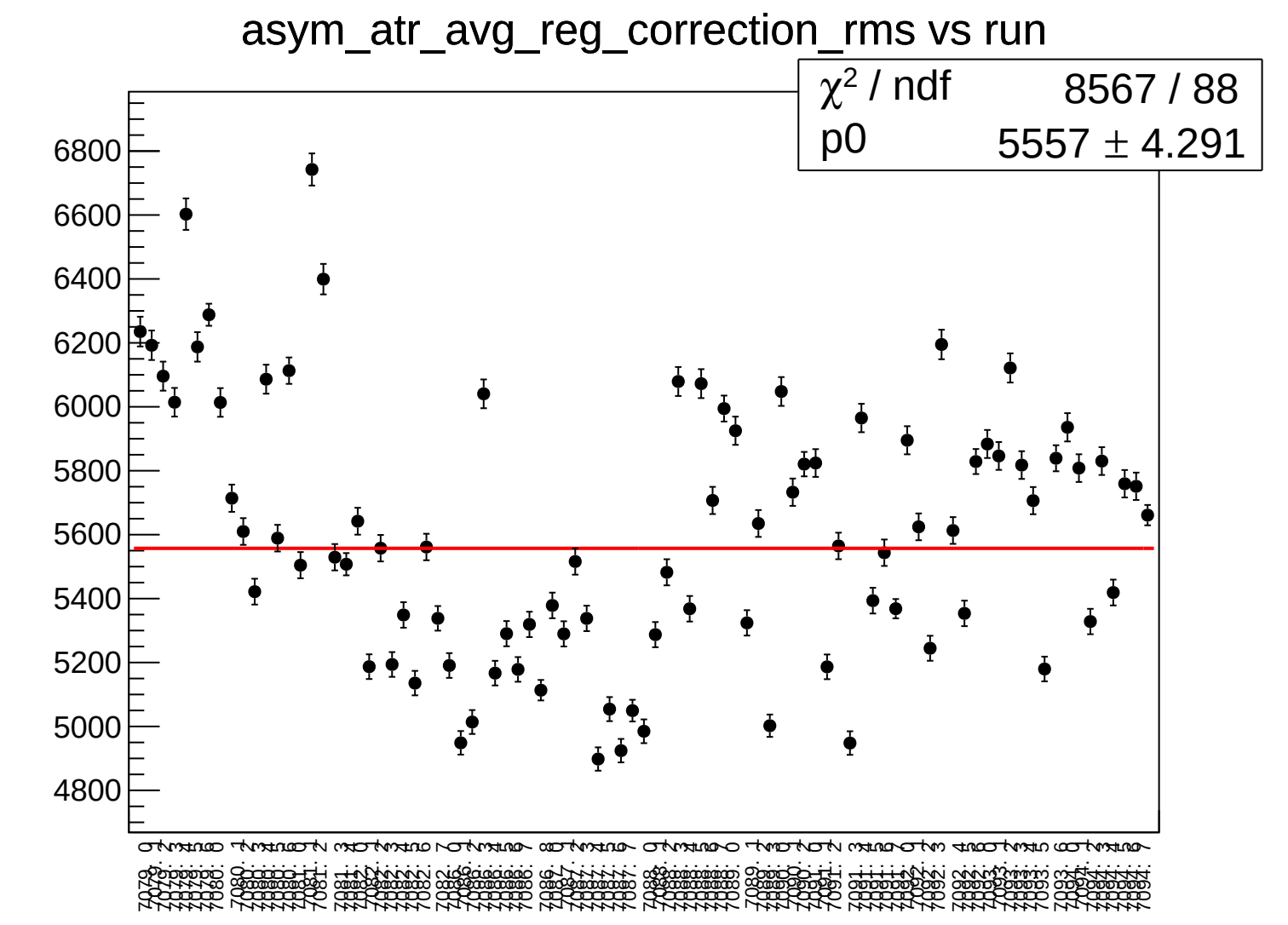

reg_asym_atr_avg_mean vs run
χ² / ndf 86.92 / 88
p0 682.9 ± 1995
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −10.63
Std Dev 20.55
2
1
0
−1
−2

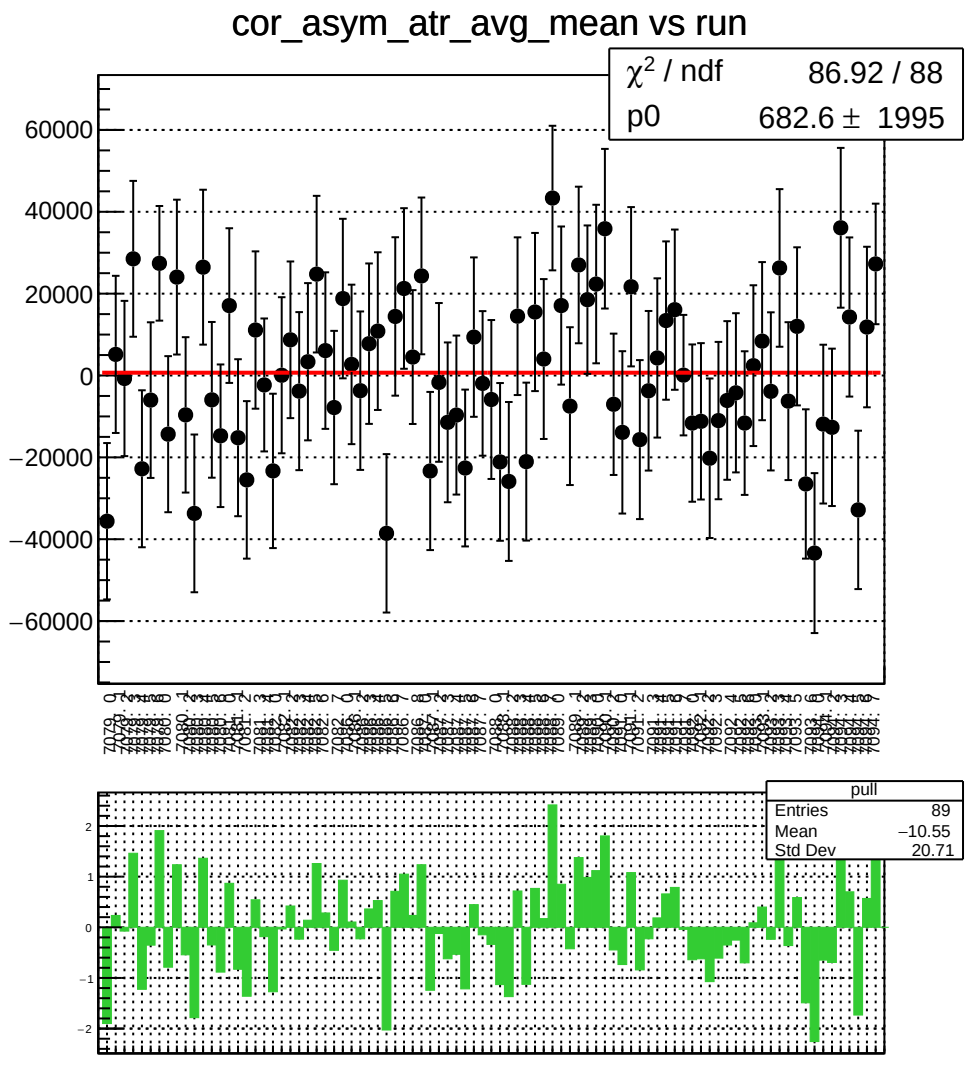

pull1D
Entries 89
Mean −0.01377
Std Dev 0.9881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

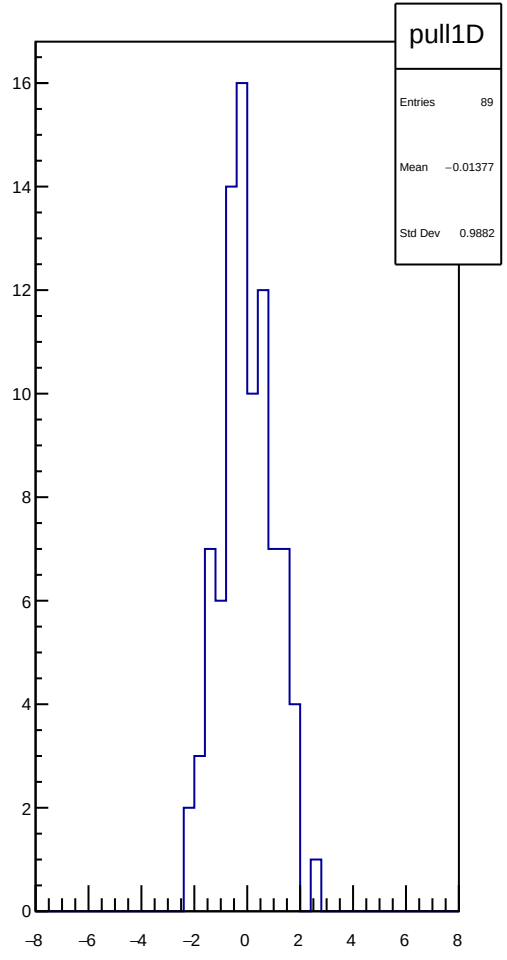

reg_asym_atr_avg_rms vs run
χ² / ndf 170.9 / 88
p0 1832 ± 1.411
1900
1880
1860
1840
1820
1800
1780

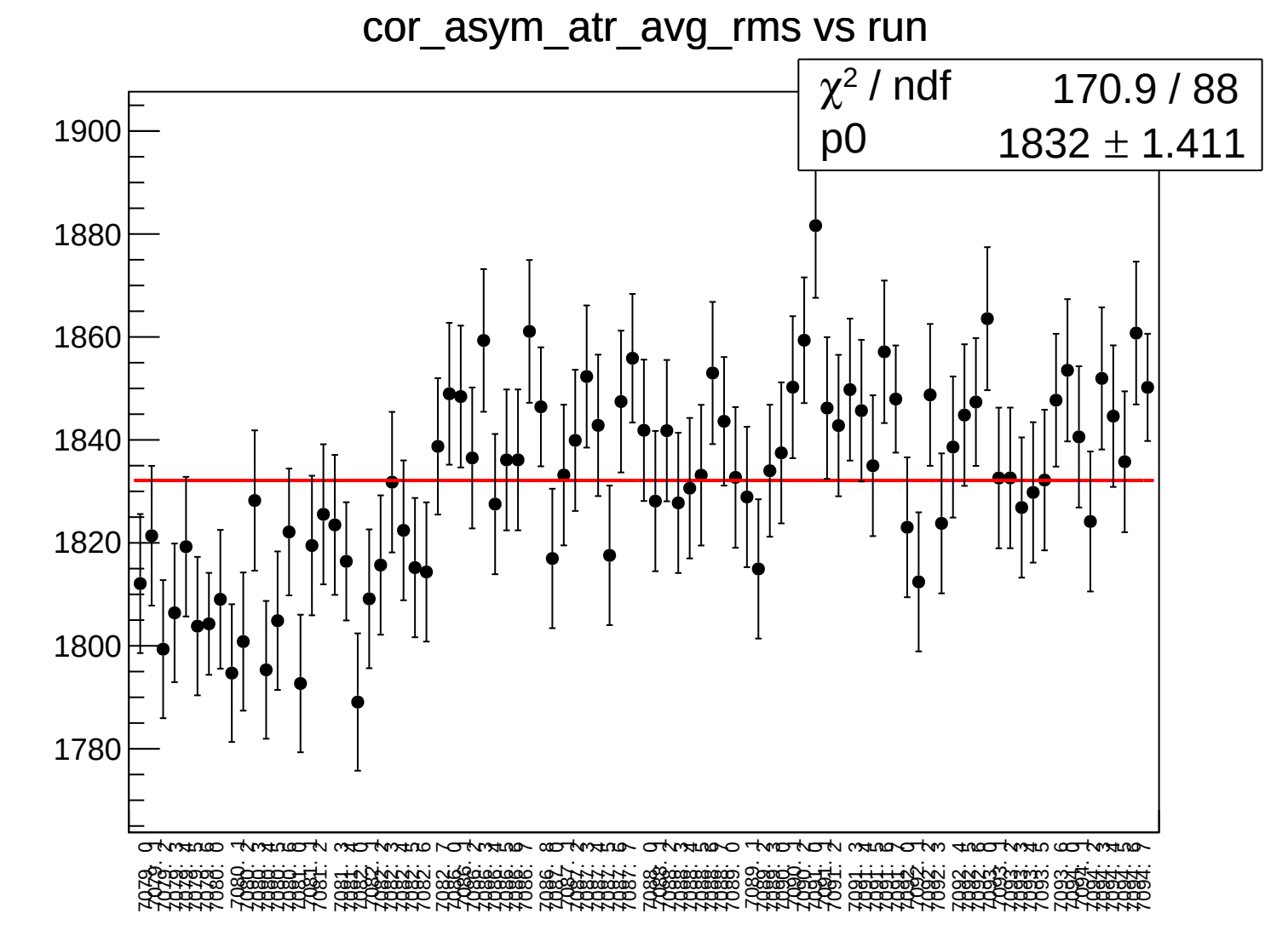

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 68.08 / 88
p0 −1148 ± 6068
pull
Entries 89
Mean −317.1
Std Dev 0

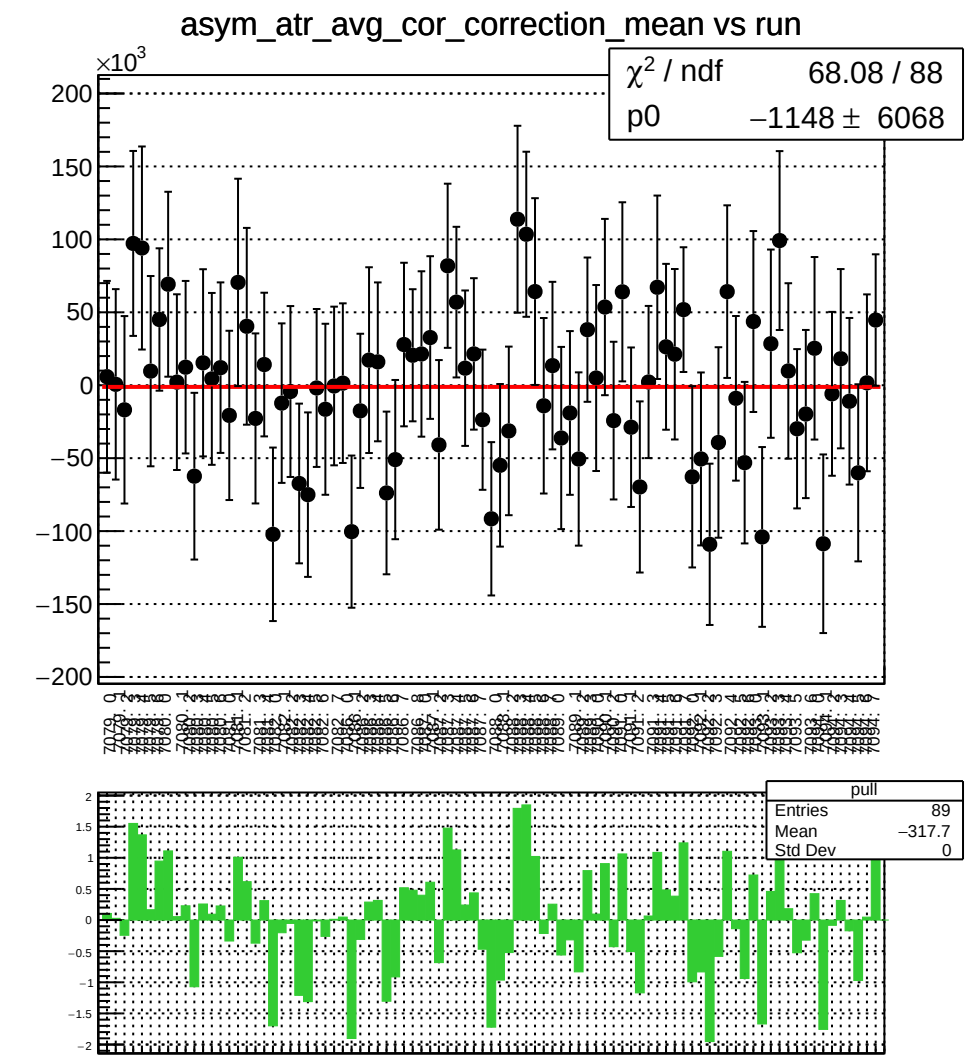

pull1D
Entries 89
Mean 0.004818
Std Dev 0.8746

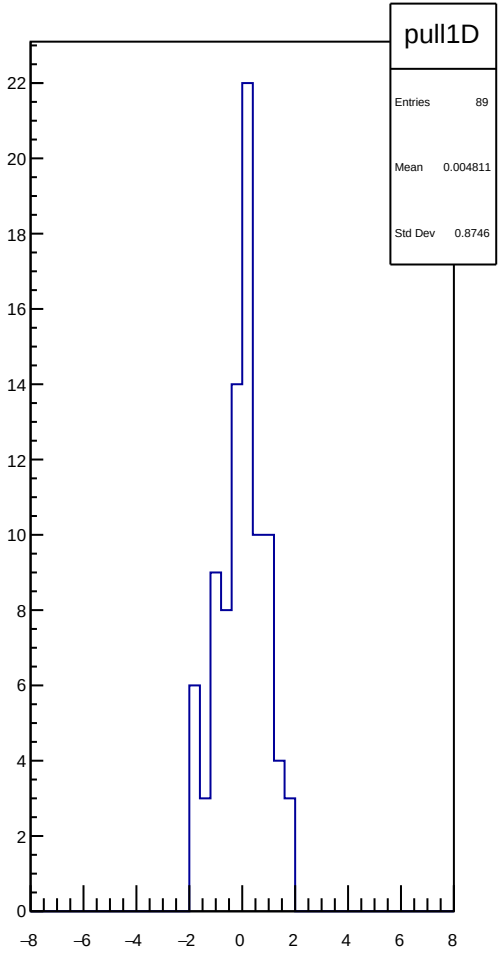

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 8567 / 88
p0 5557 ± 4.291
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

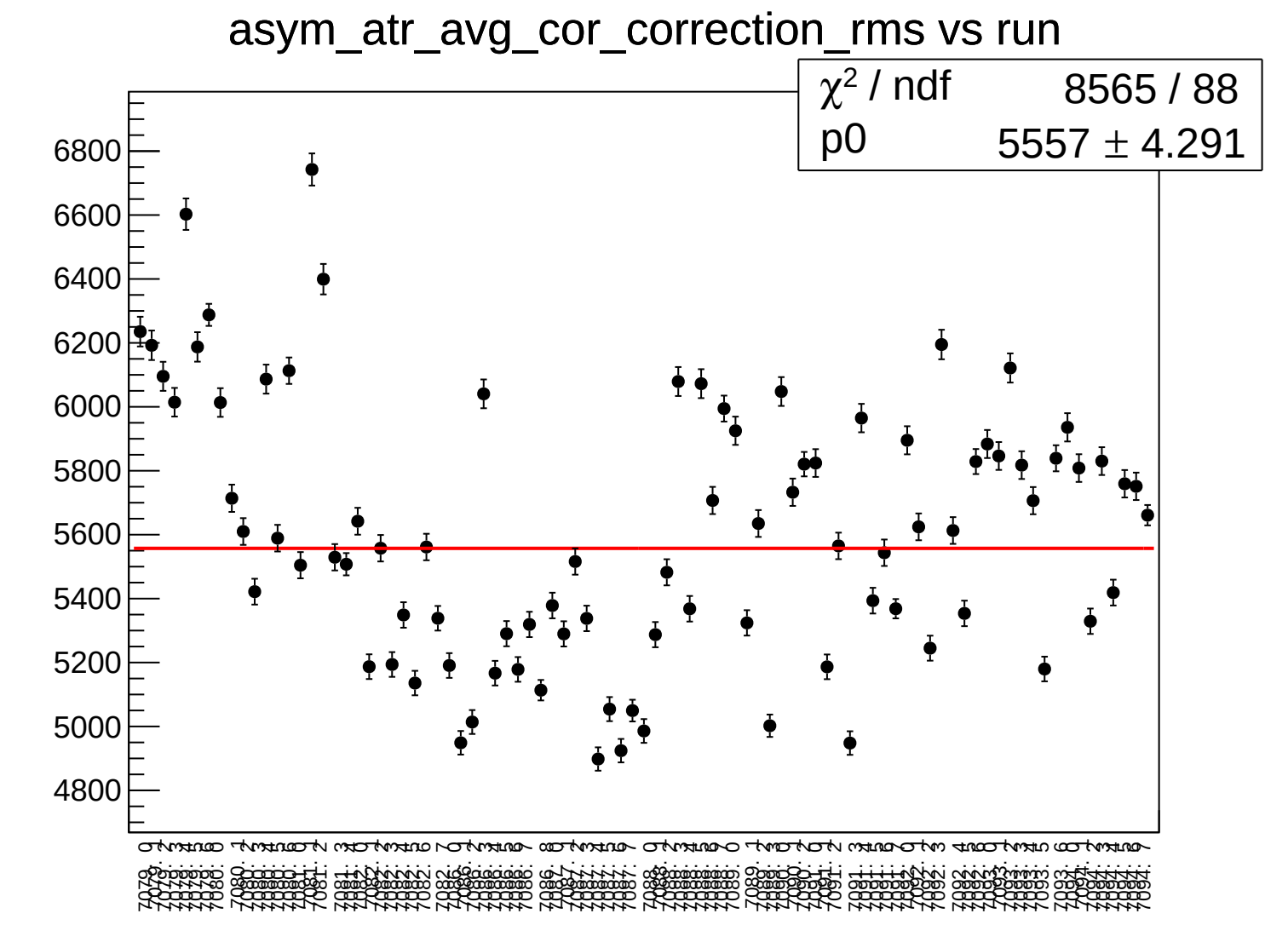

cor_asym_atr_avg_mean vs run
χ² / ndf 86.92 / 88
p0 682.6 ± 1995
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −10.55
Std Dev 20.71
2
1
0
−1
−2

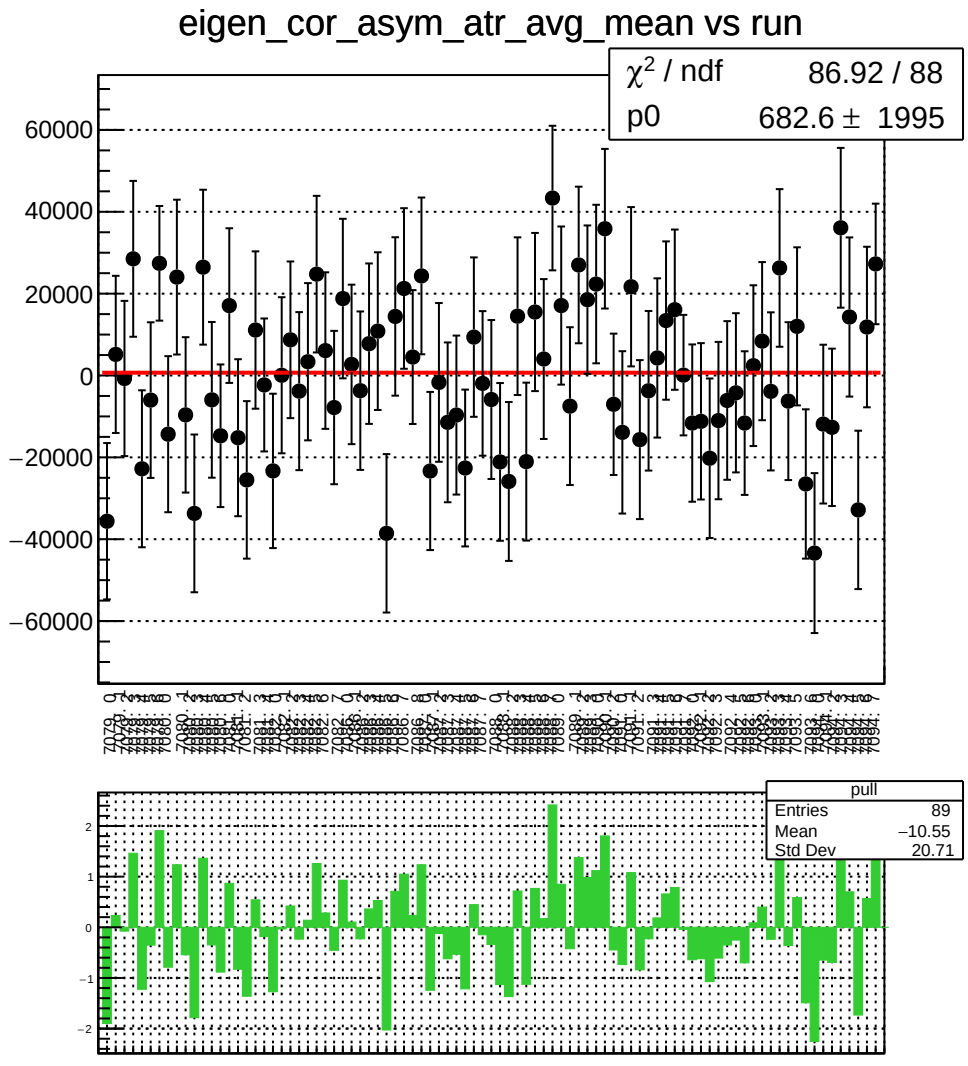

pull1D
Entries 89
Mean −0.01377
Std Dev 0.9882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

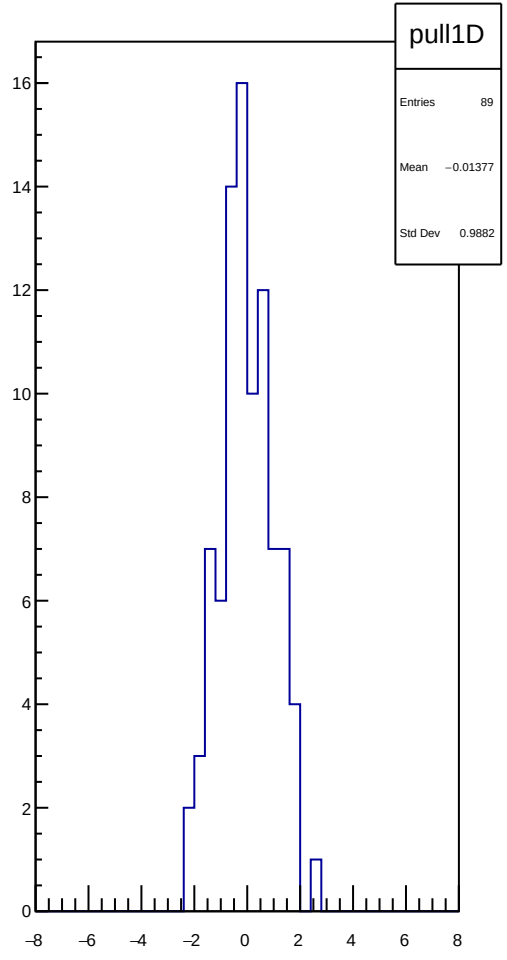

cor_asym_atr_avg_rms vs run
χ^2 / ndf 170.9 / 88
p0 1832 ± 1.411
1900
1880
1860
1840
1820
1800
1780

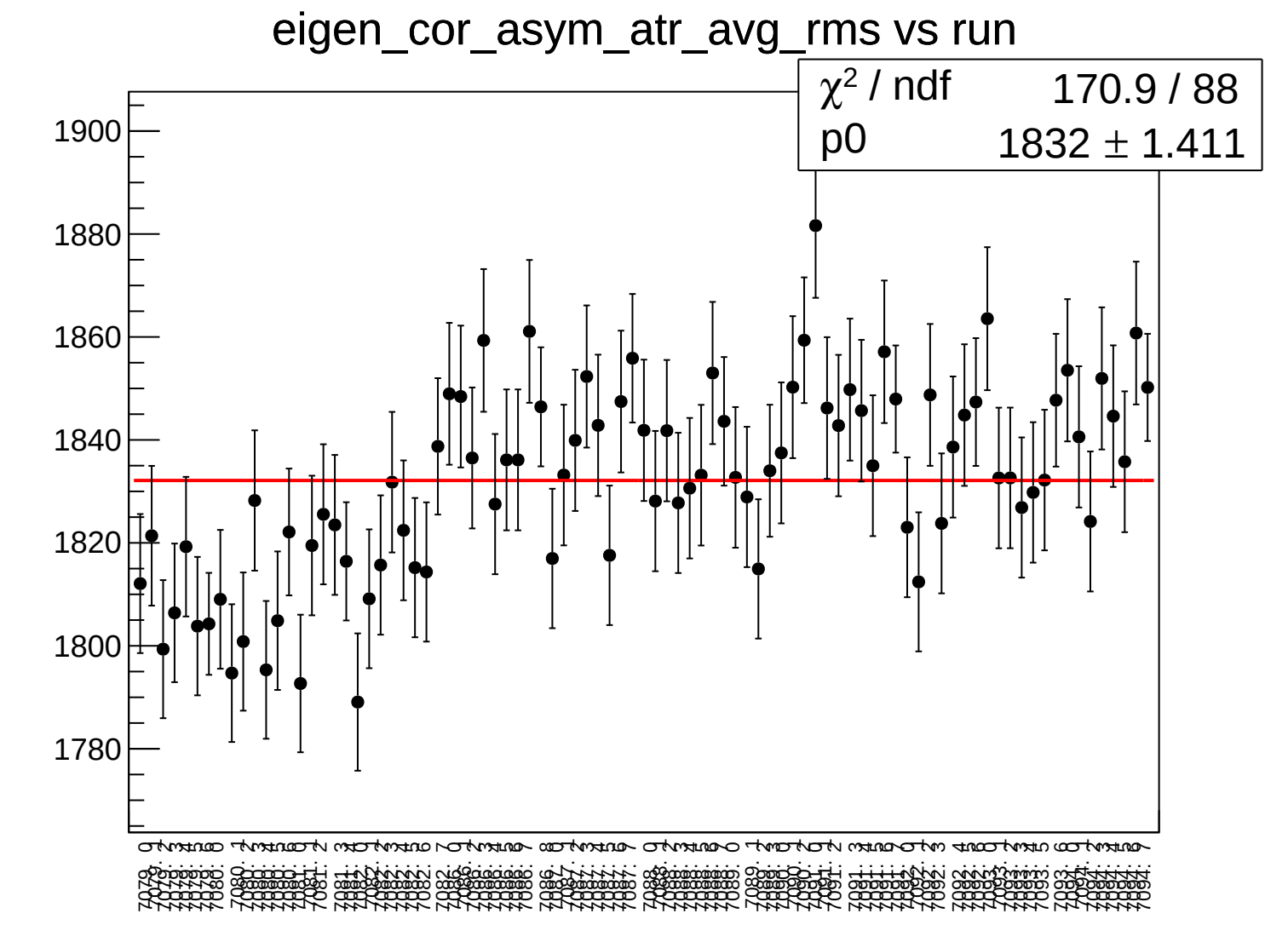

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 68.08 / 88
p0 −1148 ± 6068
pull
Entries 89
Mean −317.7
Std Dev 0

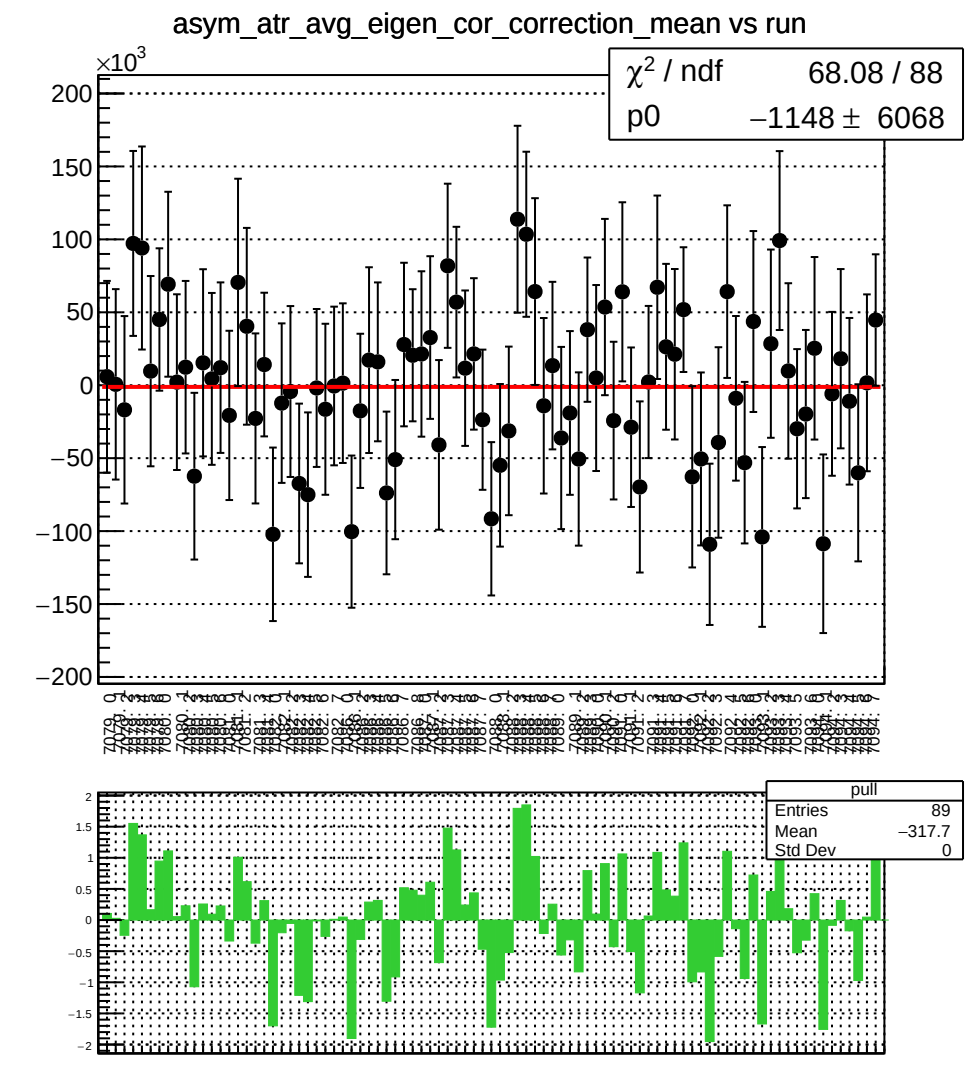

pull1D
Entries 89
Mean 0.004811
Std Dev 0.8746

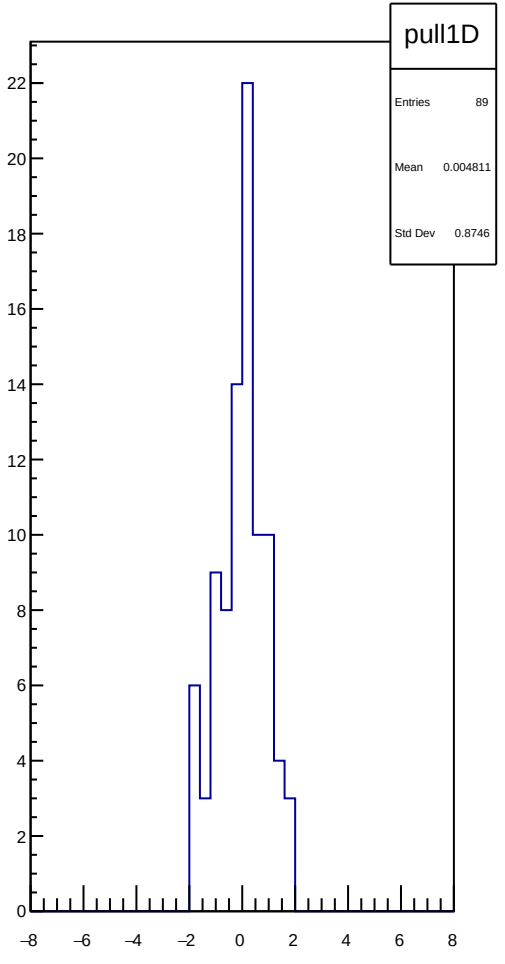

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 8565 / 88
p0 5557 ± 4.291
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

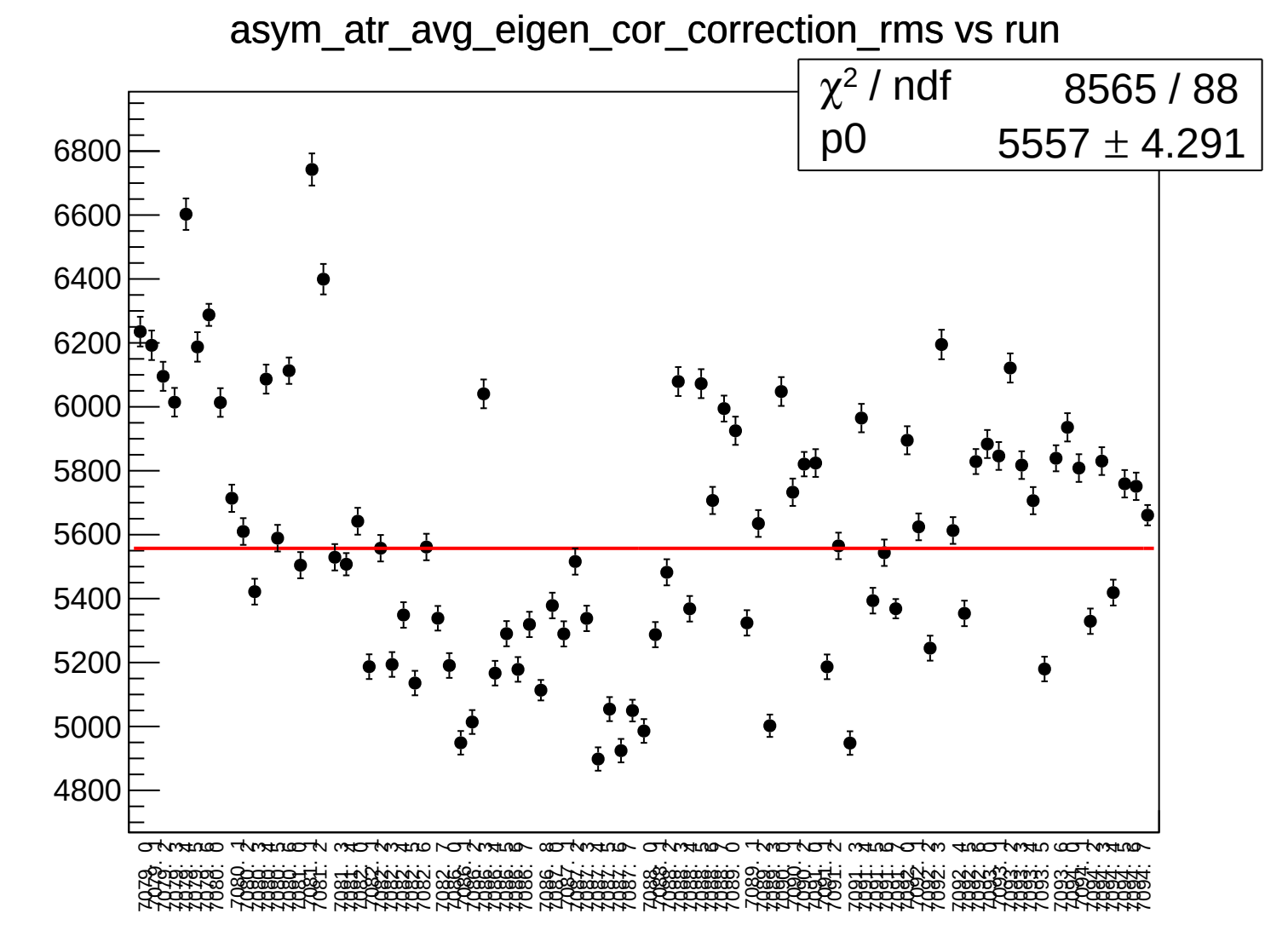

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 86.92 / 88
p0 682.6 ± 1995
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −10.55
Std Dev 20.71
2
1
0
−1
−2

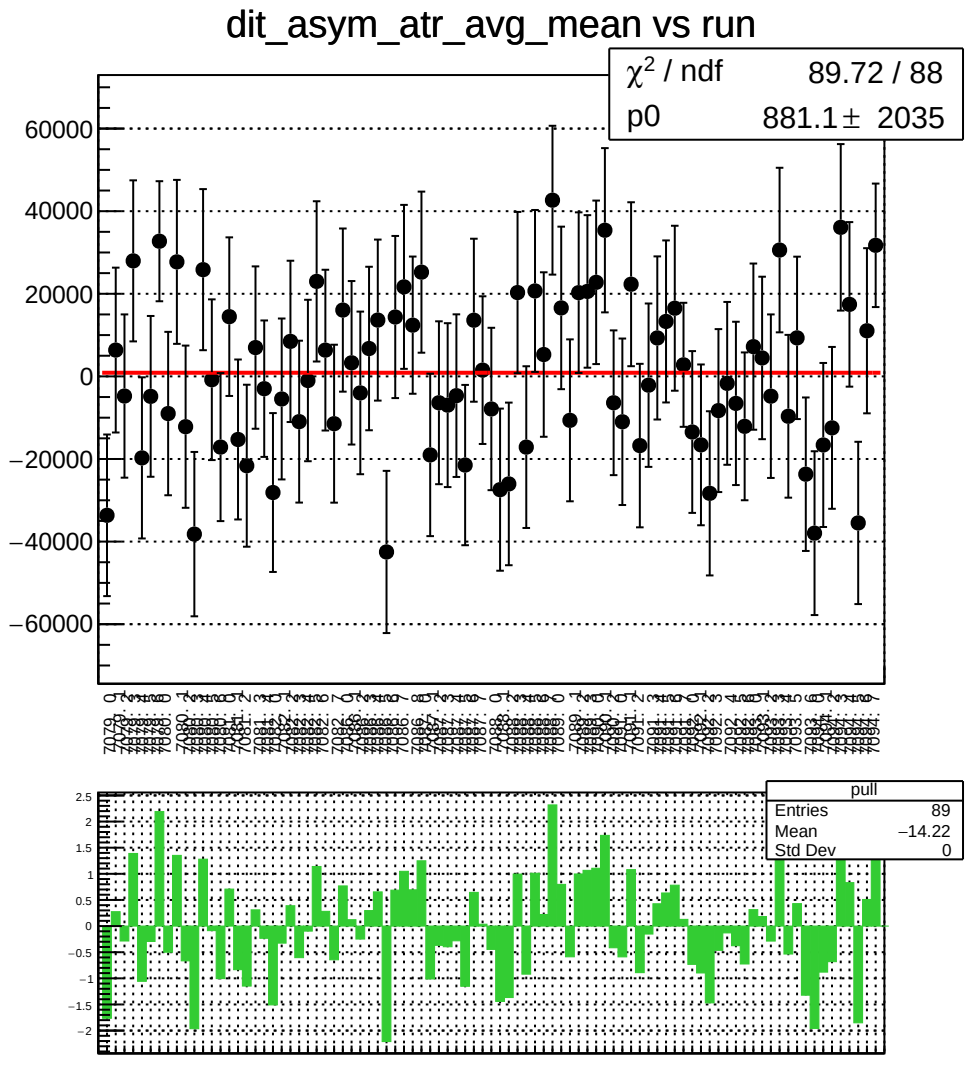

pull1D
Entries 89
Mean −0.01377
Std Dev 0.9882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

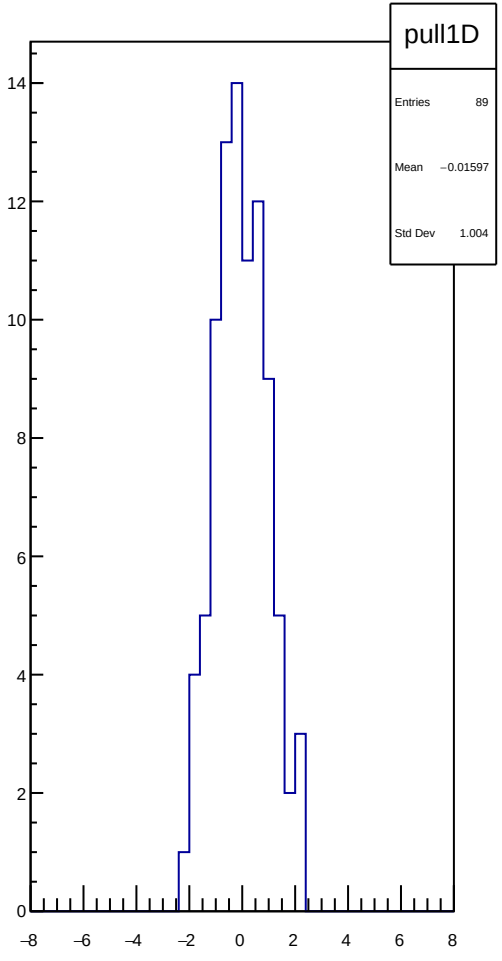

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 170.9 / 88
p0 1832 ± 1.411
1900
1880
1860
1840
1820
1800
1780

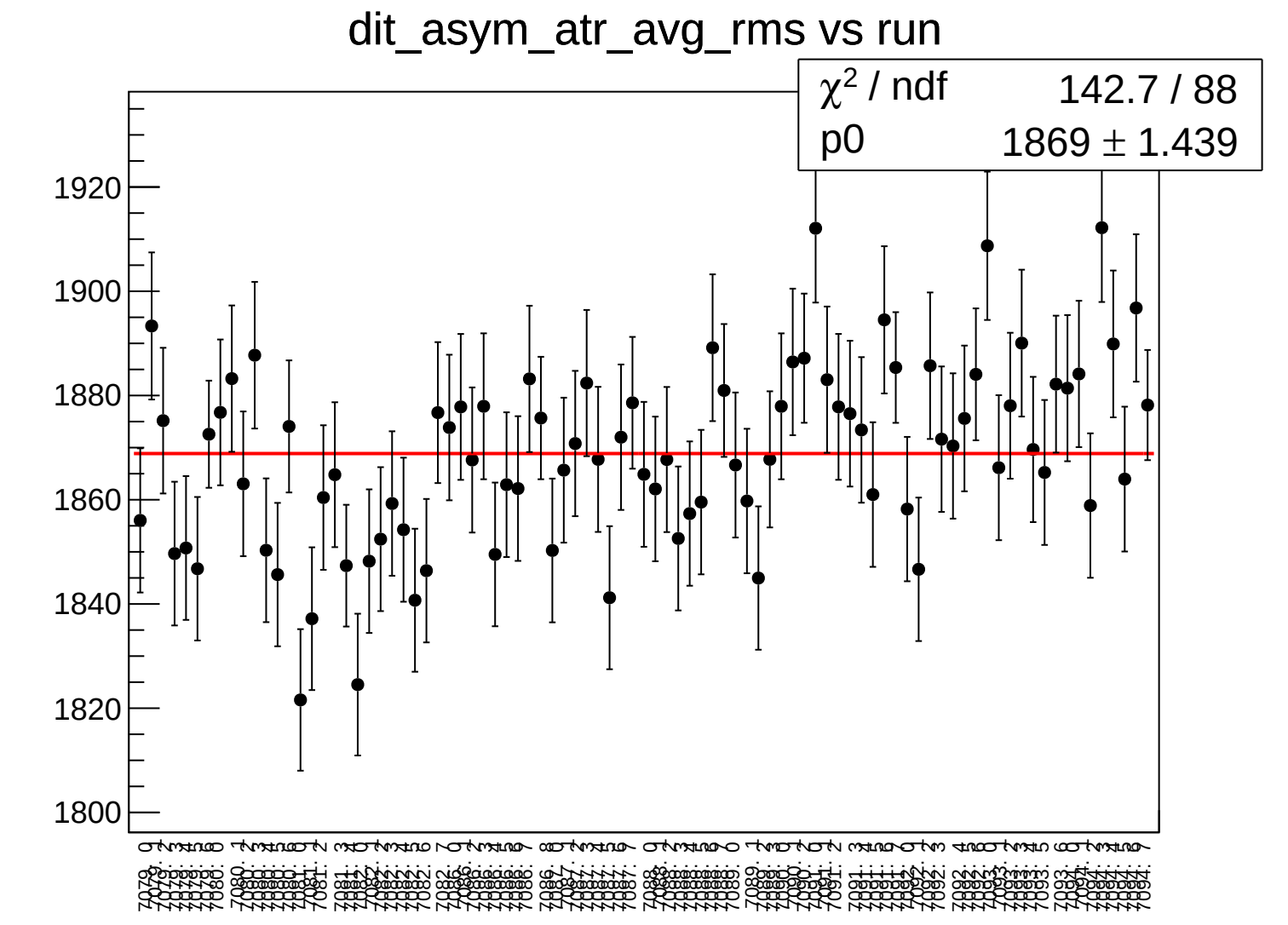

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.08 / 88
p0 −1148 ± 6068
pull
Entries 89
Mean −317.7
Std Dev 0

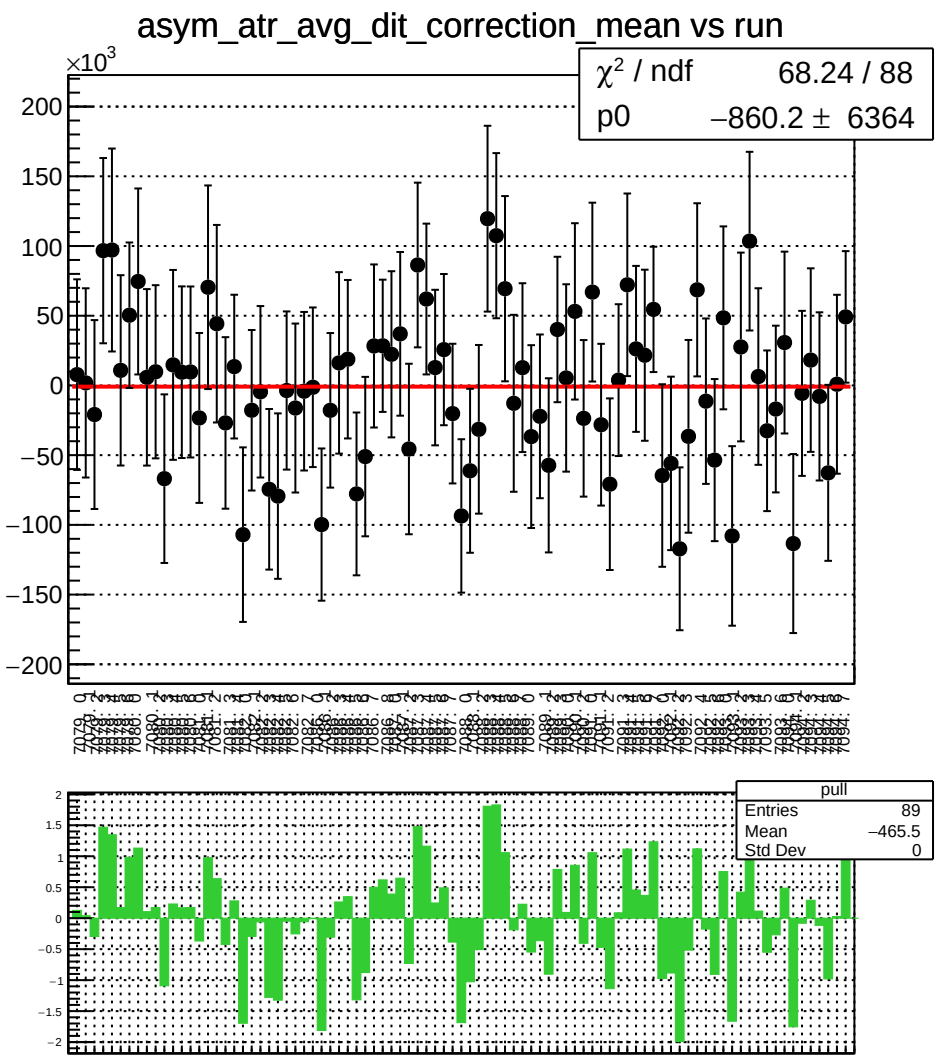

pull1D
Entries 89
Mean 0.004811
Std Dev 0.8746

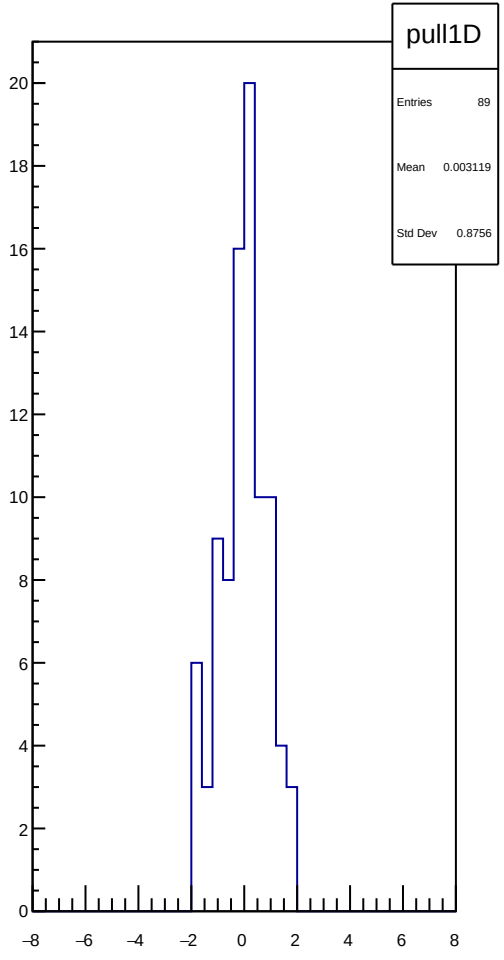

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 8565 / 88
p0 5557 ± 4.291
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

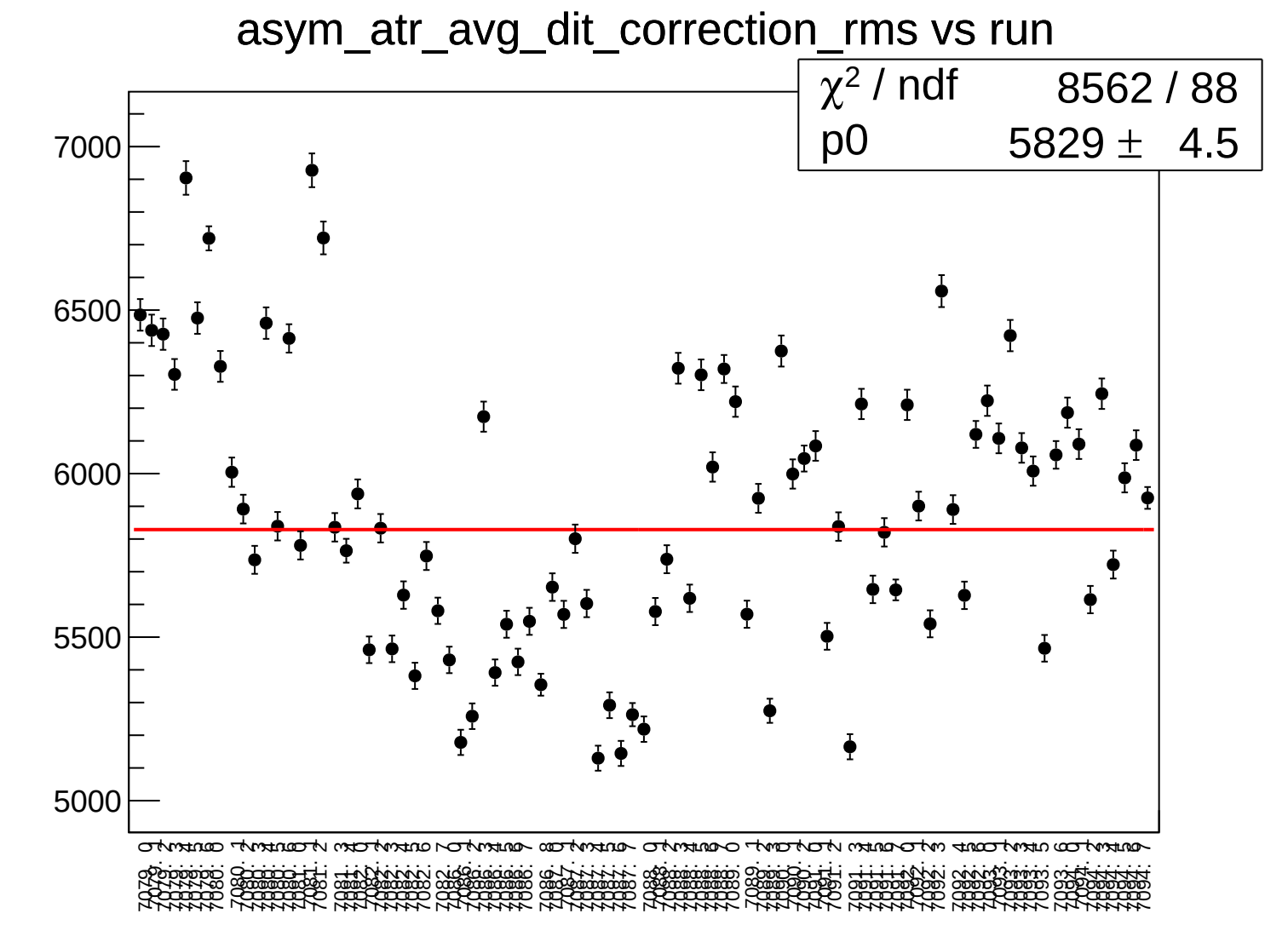

dit_asym_atr_avg_mean vs run
χ² / ndf 89.72 / 88
p0 881.1 ± 2035
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −14.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

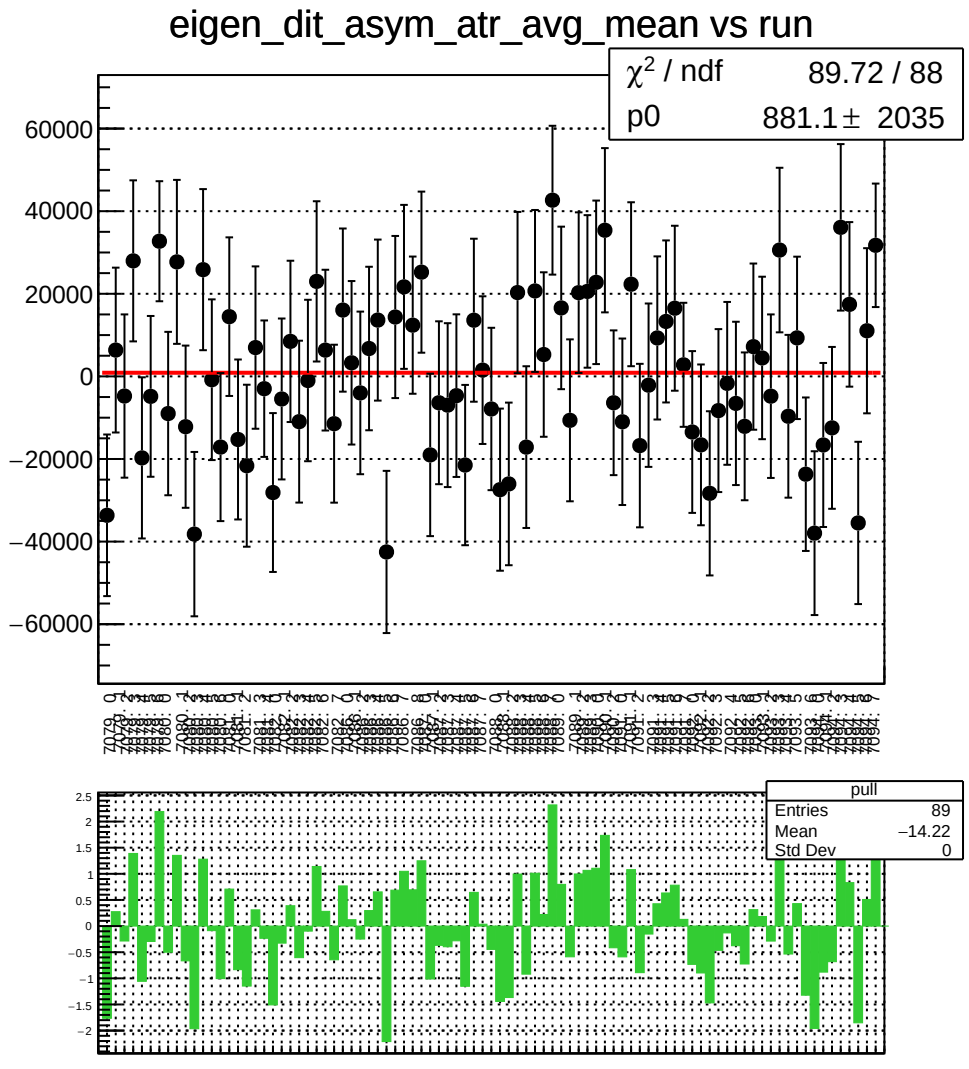

pull1D
Entries 89
Mean −0.01597
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

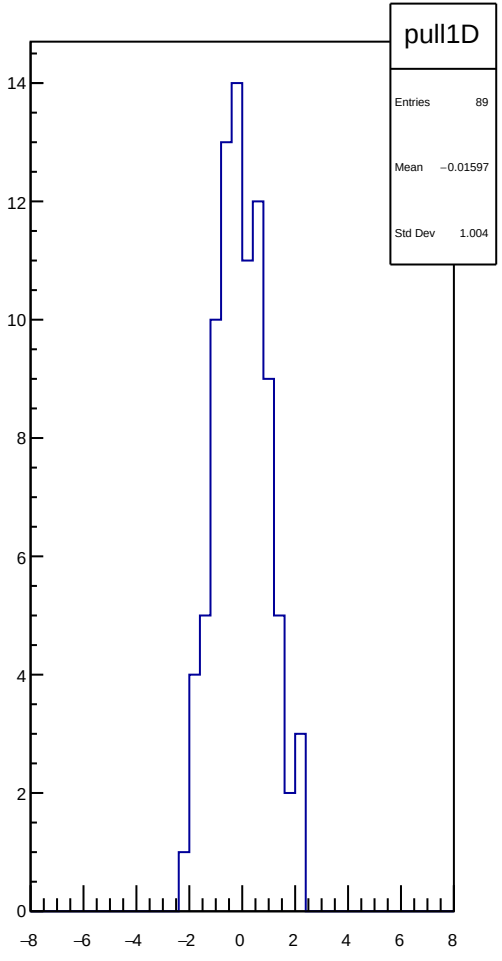

dit_asym_atr_avg_rms vs run
χ^2 / ndf 142.7 / 88
p0 1869 ± 1.439
1920
1900
1880
1860
1840
1820
1800

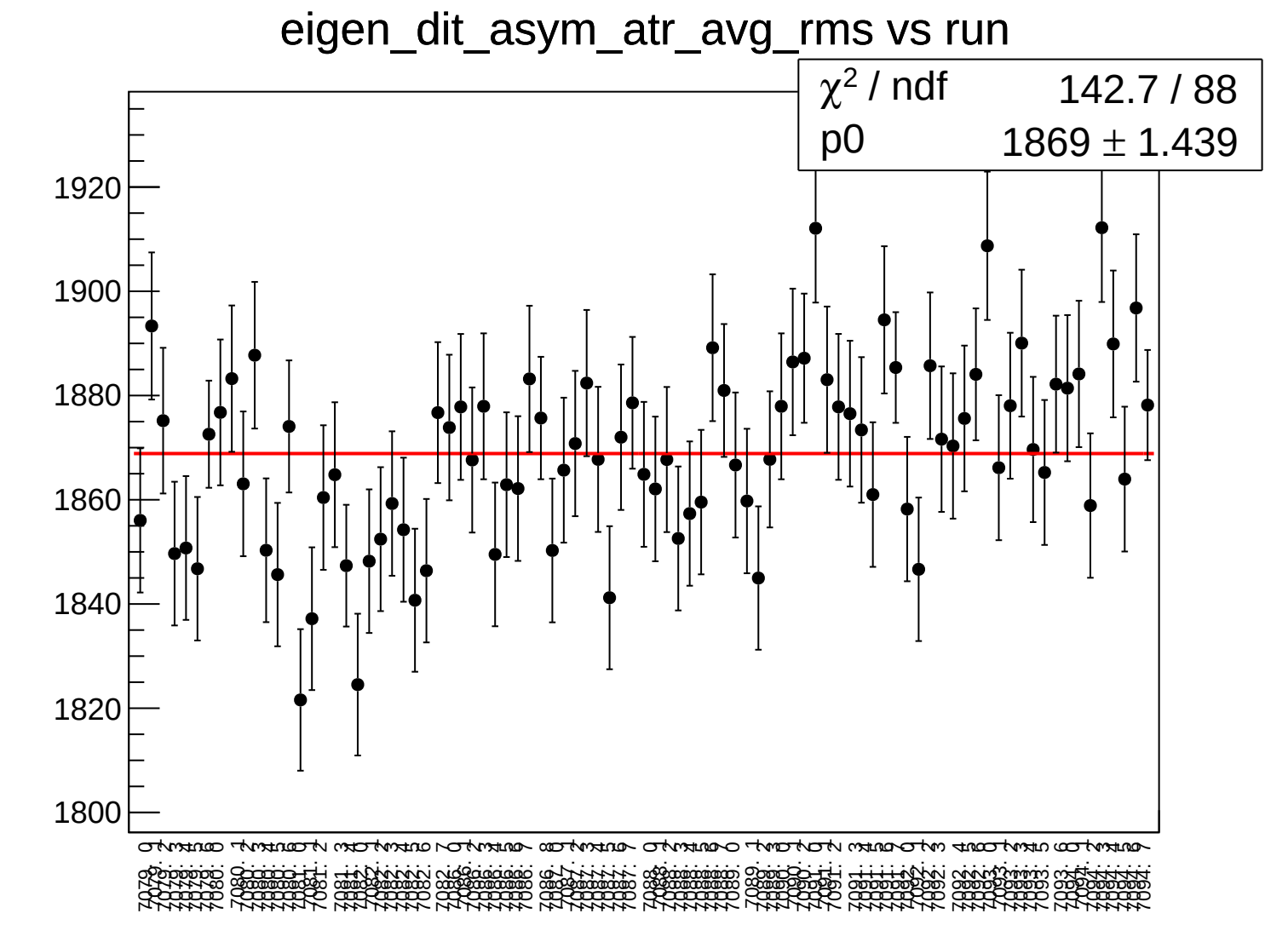

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.24 / 88
p0 −860.2 ± 6364
pull
Entries 89
Mean −465.5
Std Dev 0

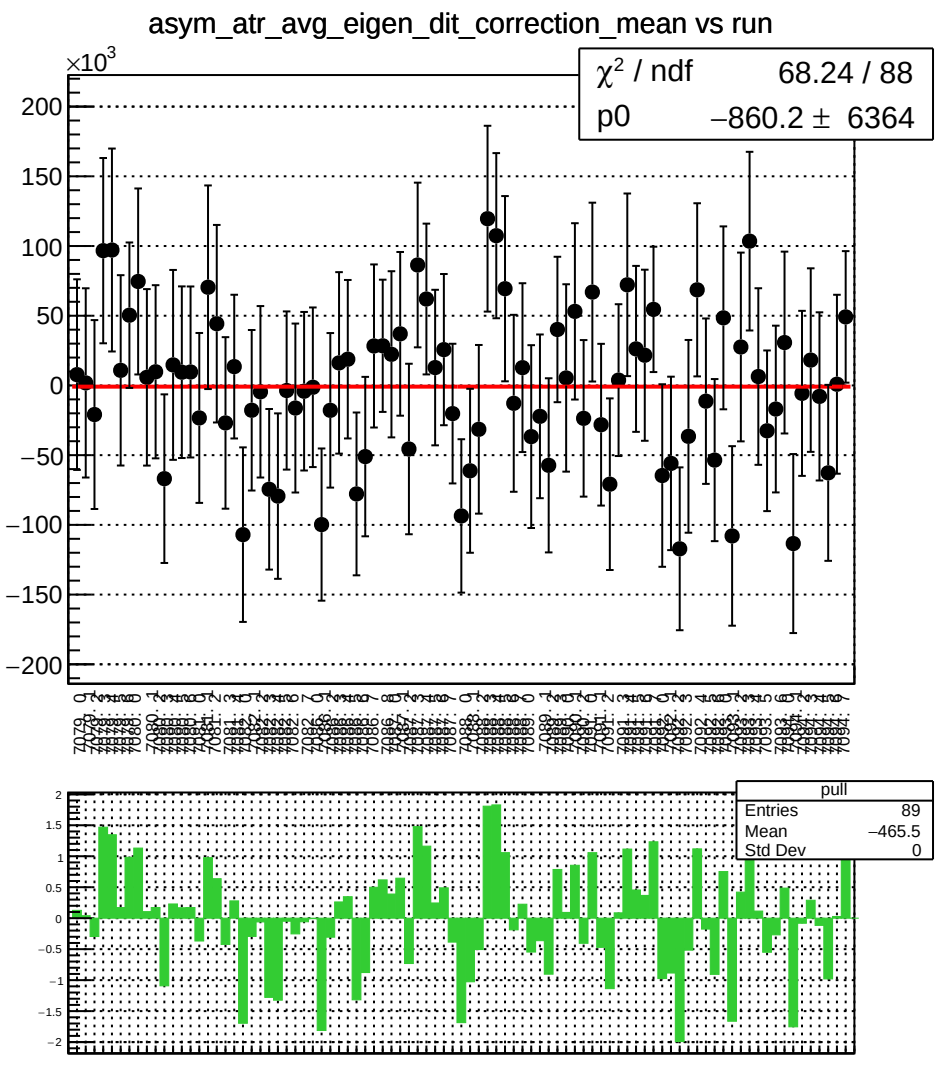

pull1D
Entries 89
Mean 0.003119
Std Dev 0.8756

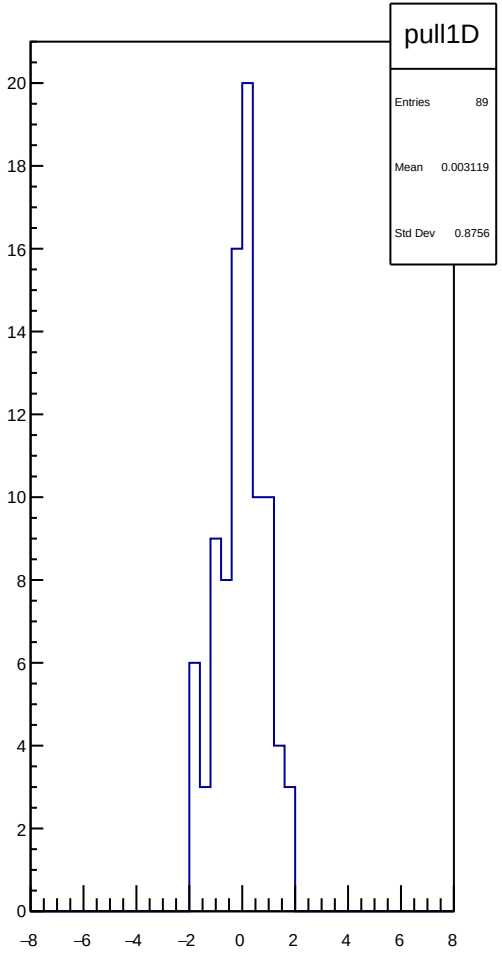

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 8562 / 88
p0 5829 ± 4.5
7000
6500
6000
5500
5000

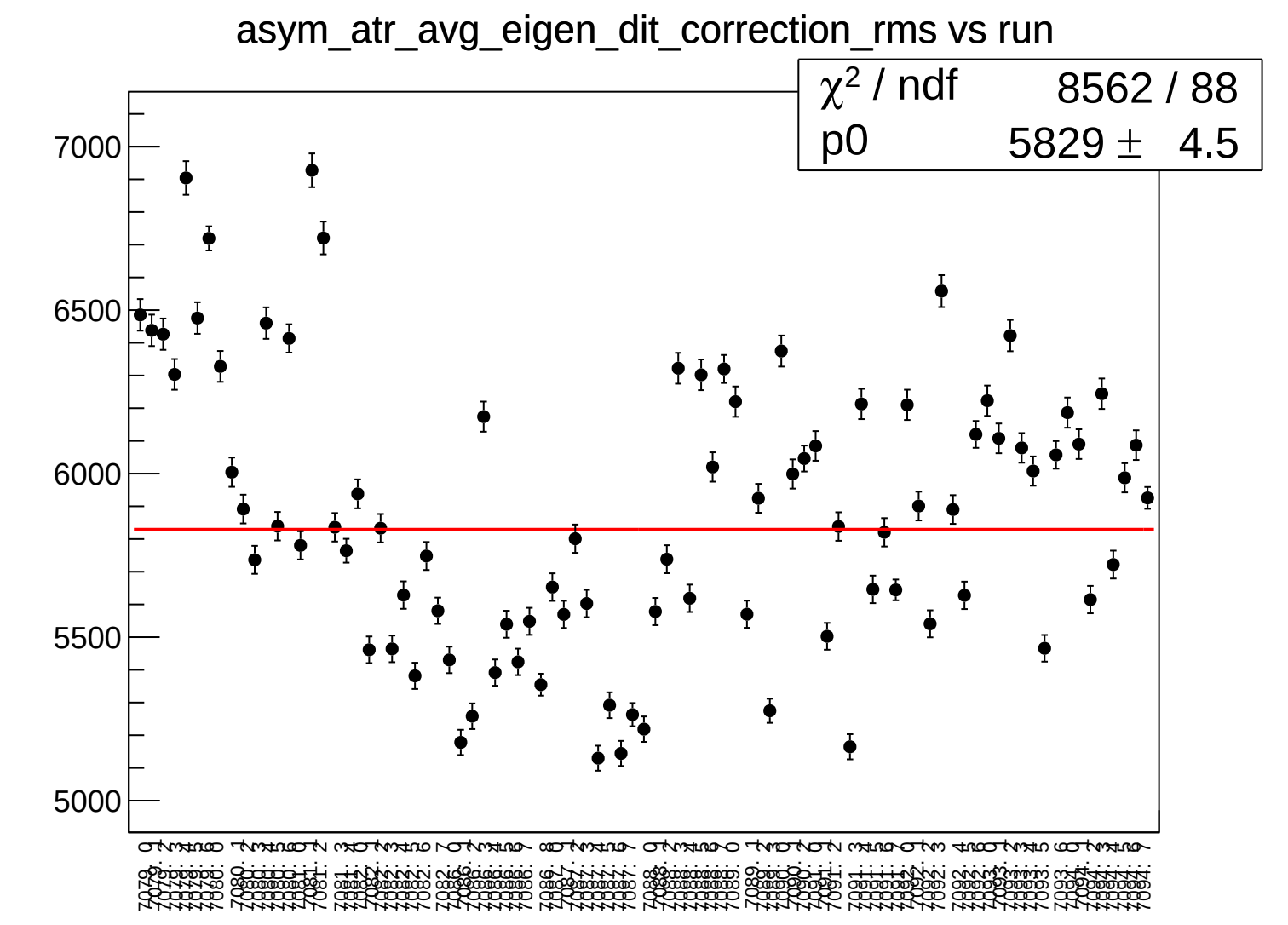

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 89.72 / 88
p0 881.1 ± 2035
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −14.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

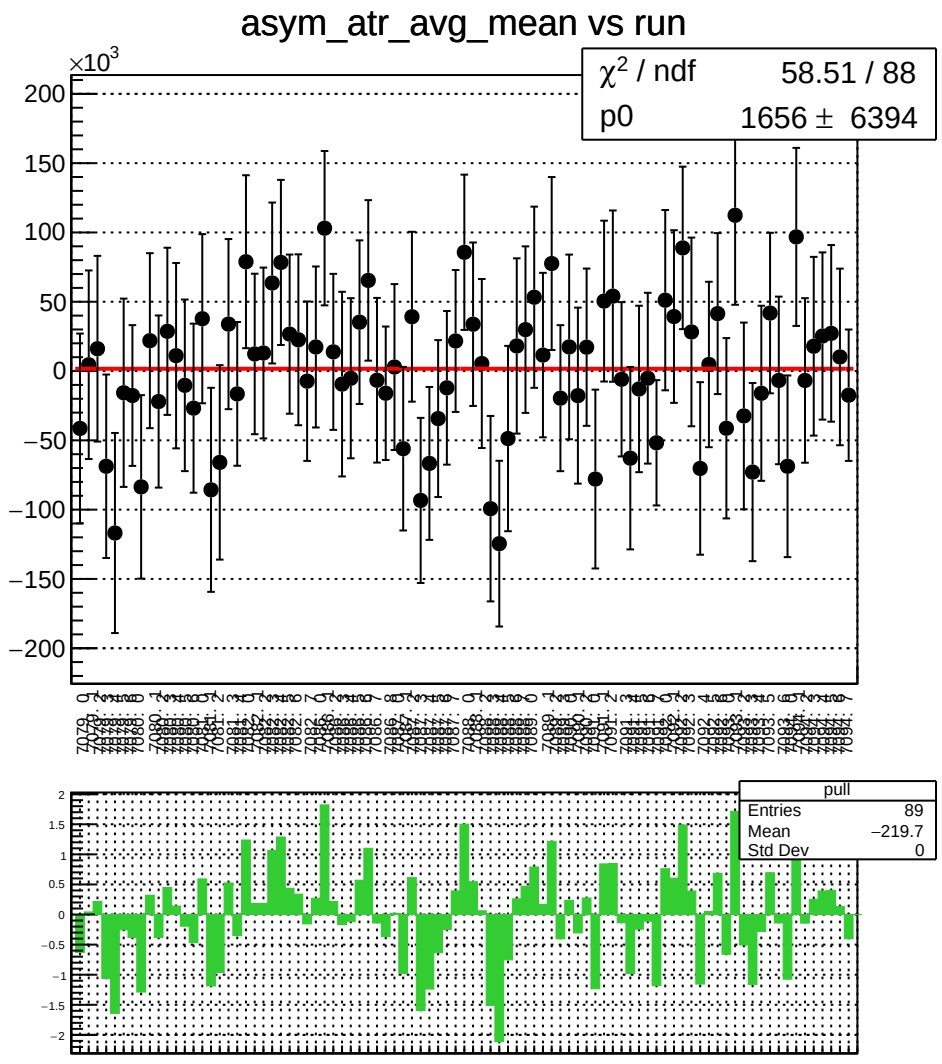

pull1D
Entries 89
Mean −0.01597
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

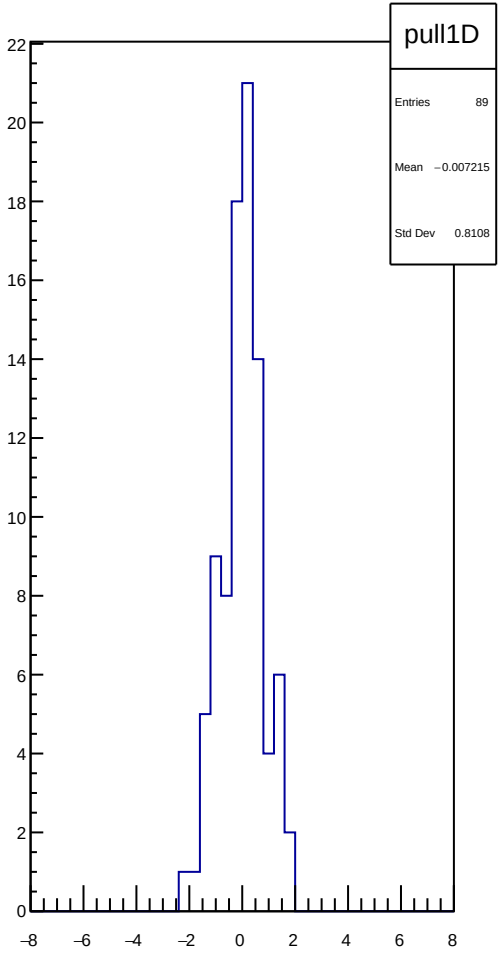

eigen_dit_asym_atr_avg_rms vs run
χ^2 / ndf 142.7 / 88
p0 1869 ± 1.439
1920
1900
1880
1860
1840
1820
1800

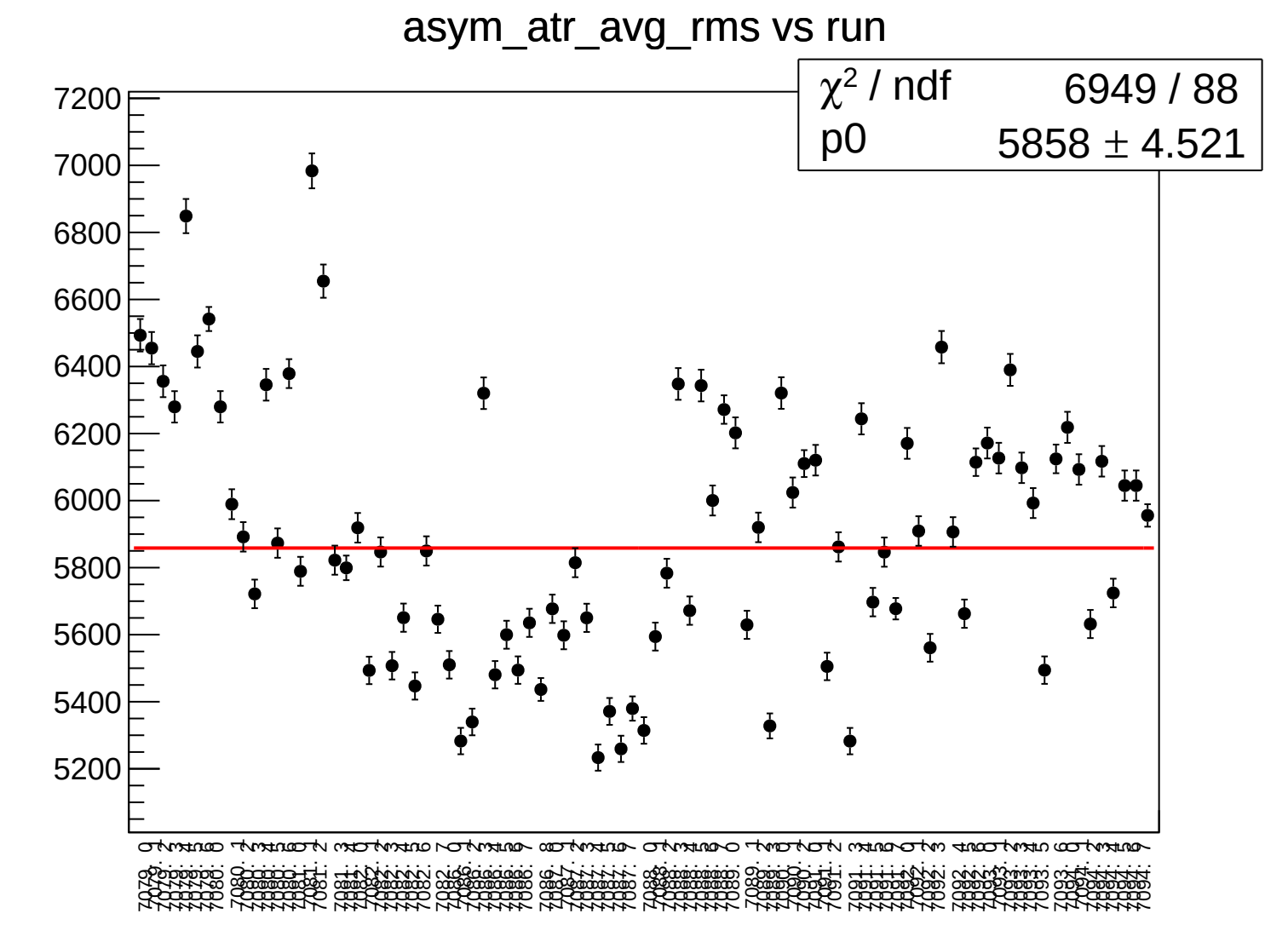

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.24 / 88
p0 −860.2 ± 6364
pull
Entries 89
Mean −465.5
Std Dev 0

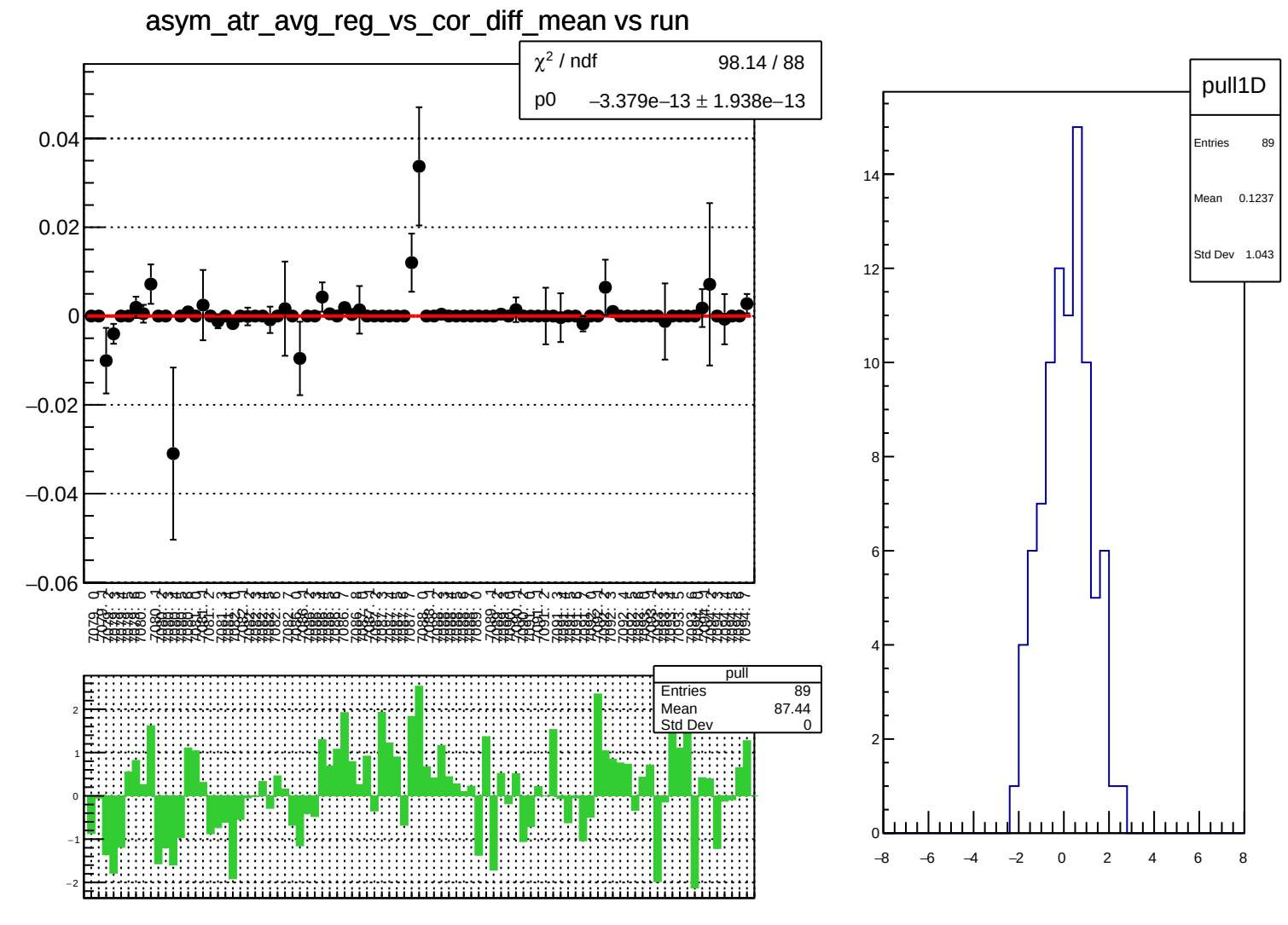

pull1D
Entries 89
Mean 0.003119
Std Dev 0.8756

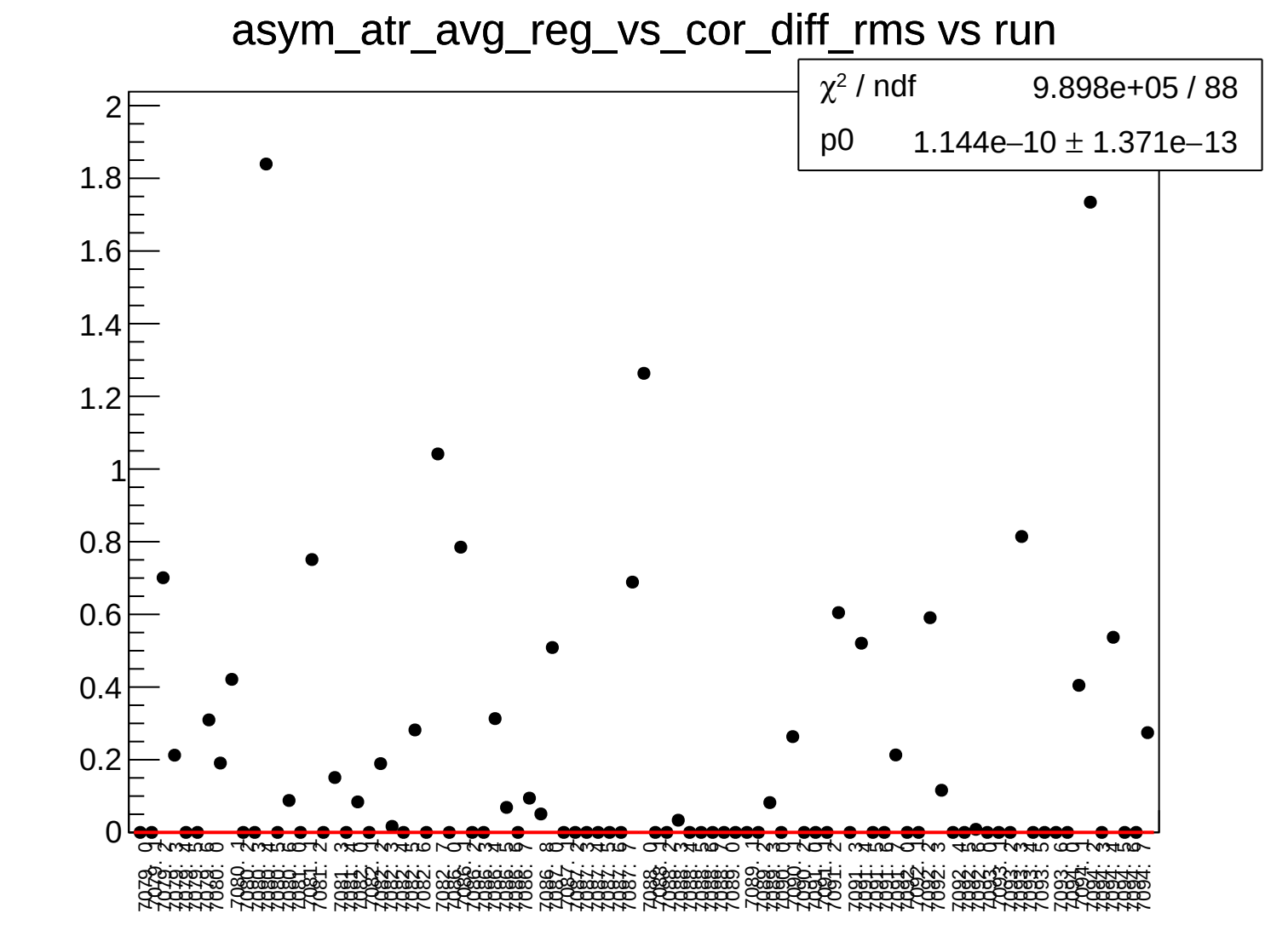

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 8562 / 88
p0 5829 ± 4.5
7000
6500
6000
5500
5000

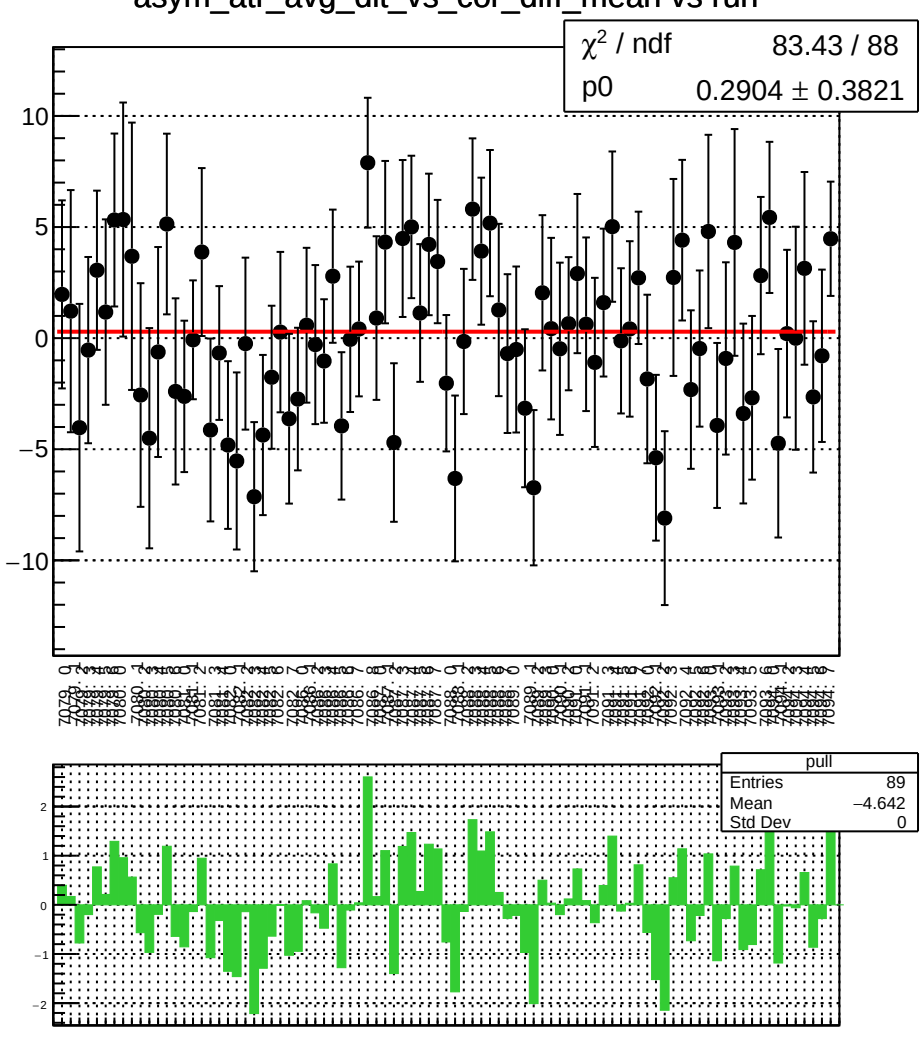

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 58.51 / 88
p0 1656 ± 6394
pull
Entries 89
Mean −219.7
Std Dev 0

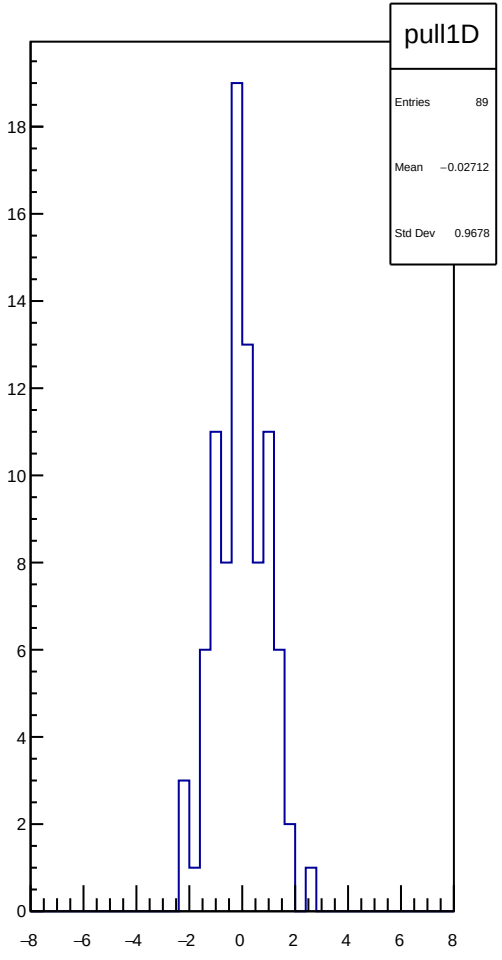

pull1D
Entries 89
Mean −0.007215
Std Dev 0.8108

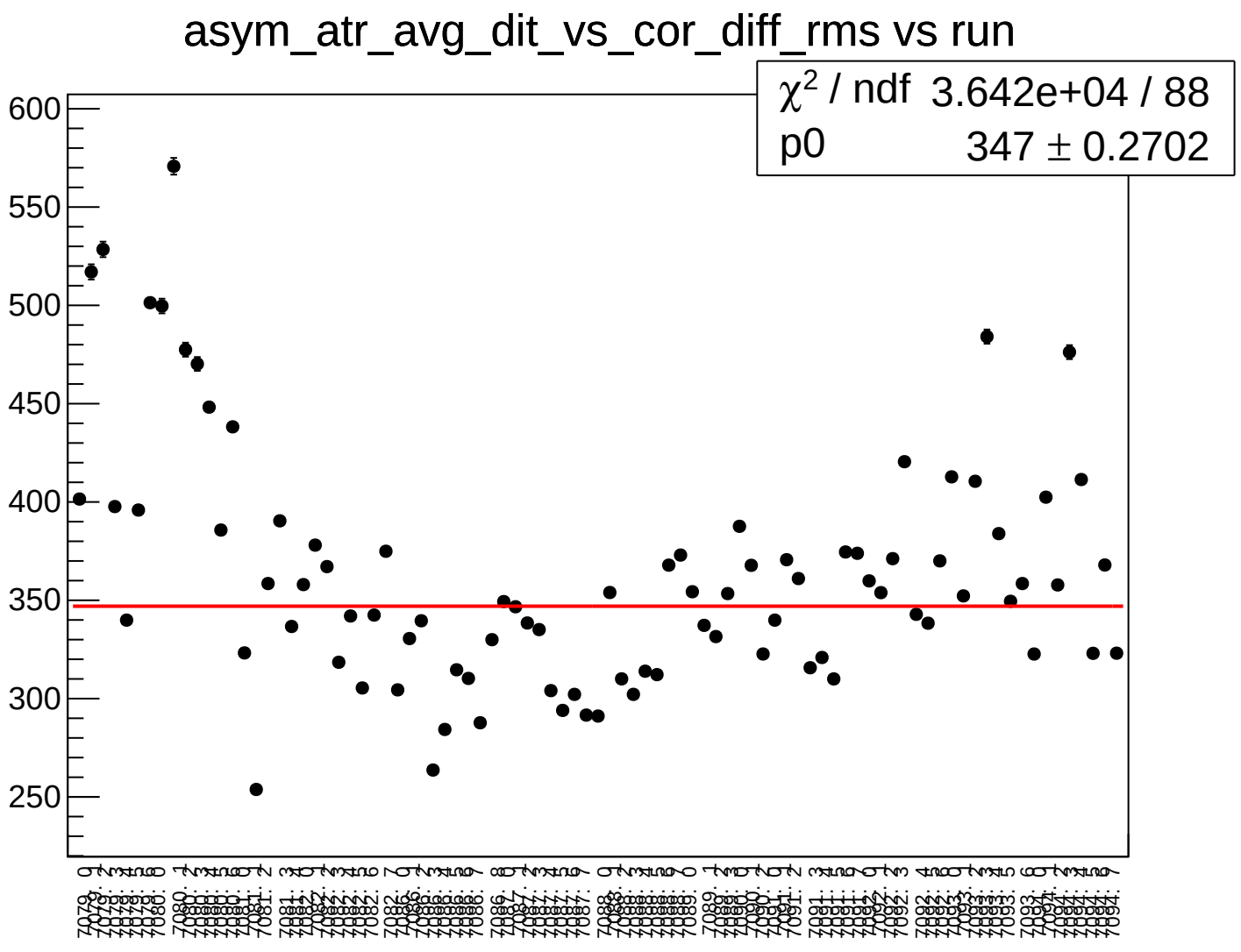

asym_atr_avg_rms vs run
χ² / ndf 6949 / 88
p0 5858 ± 4.521
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

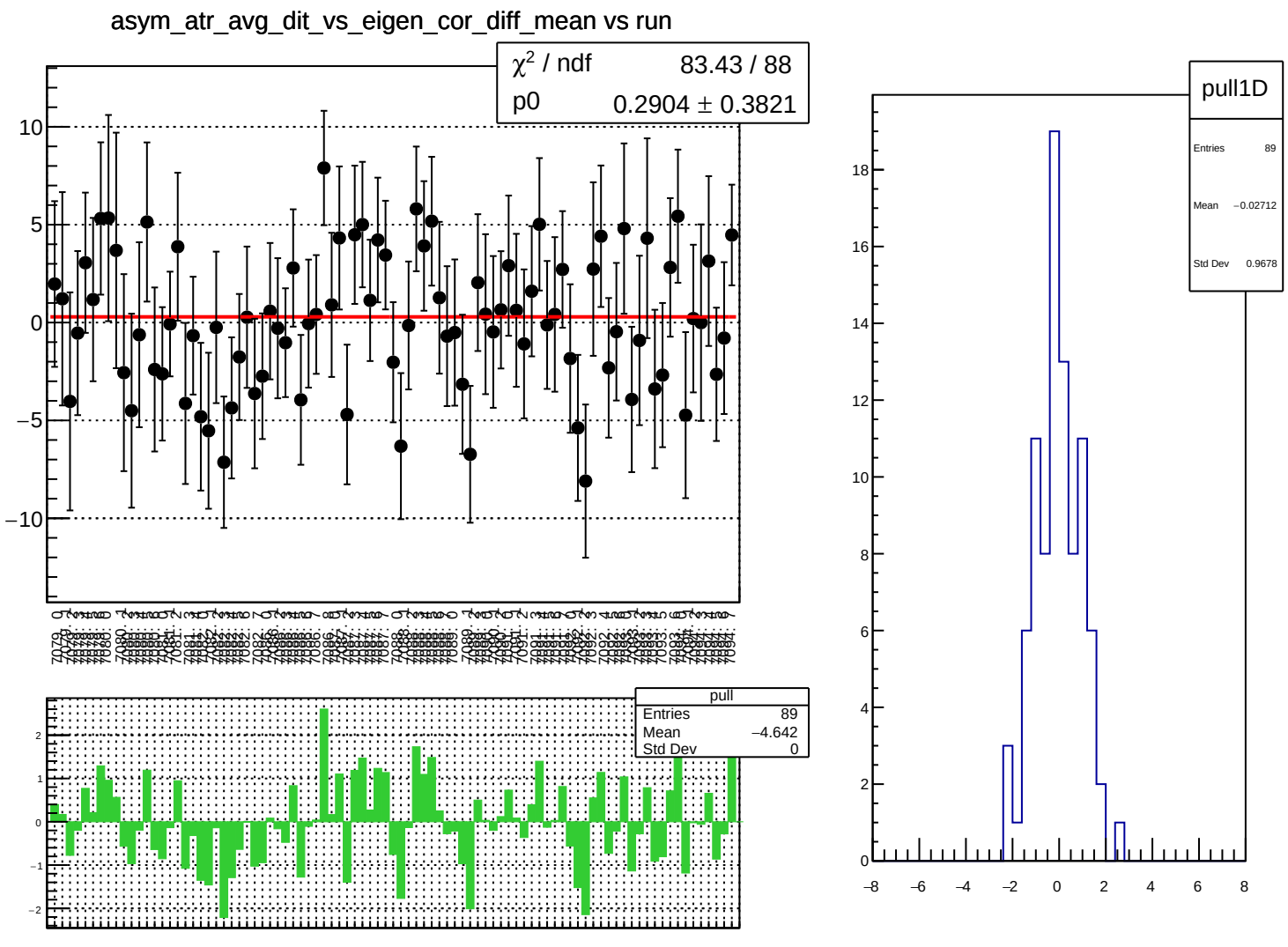

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.14 / 88
p0 −3.379e−13 ± 1.938e−13
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 87.44
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.1237
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

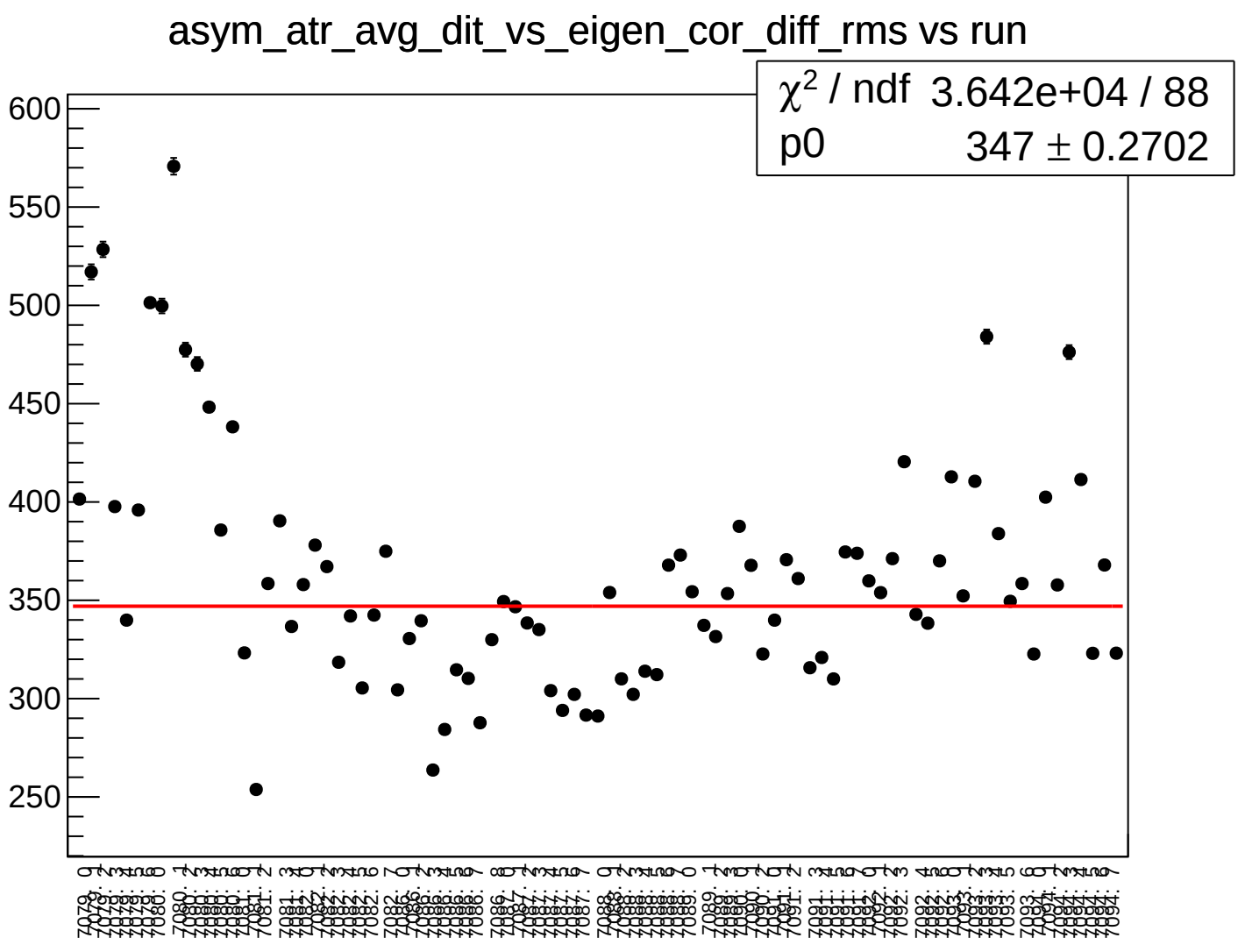

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.898e+05 / 88
p0 1.144e−10 ± 1.371e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

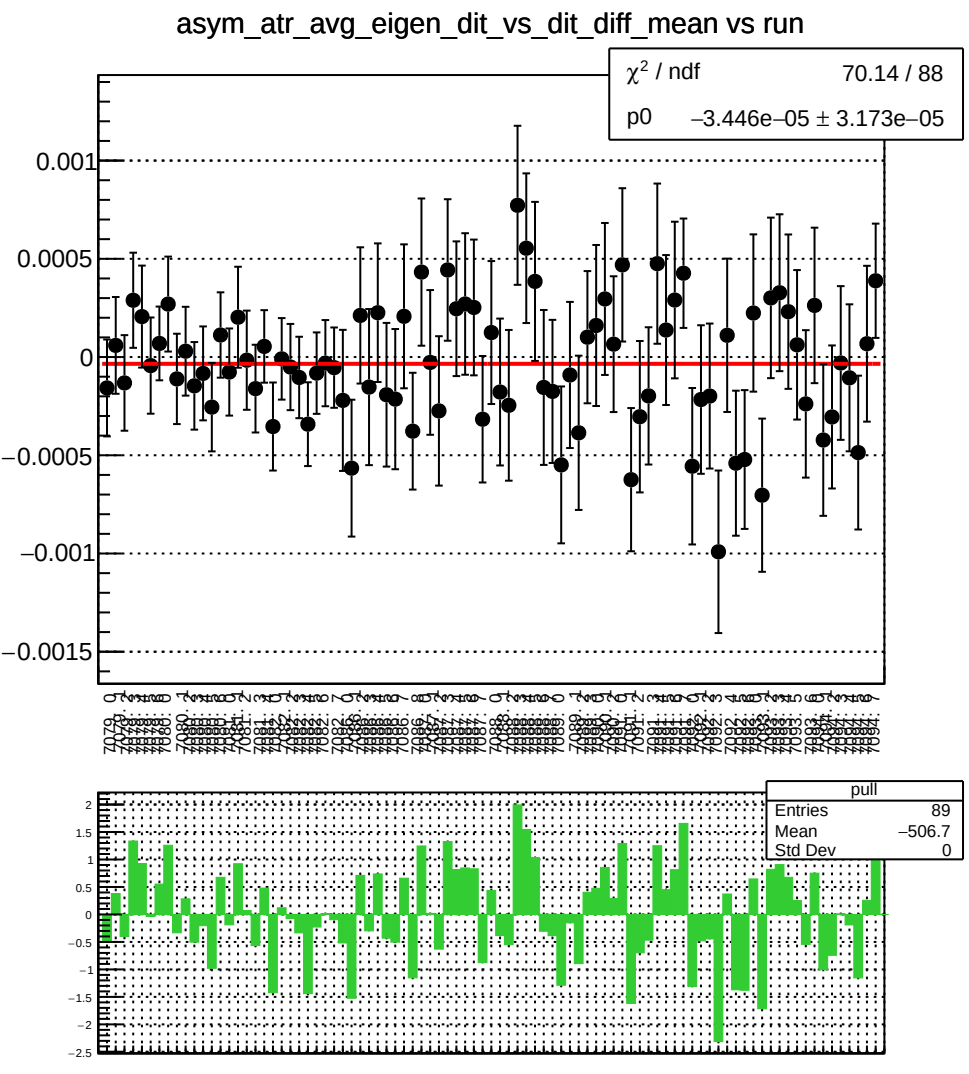

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.43 / 88
p0 0.2904 ± 0.3821
pull
Entries 89
Mean −4.642
Std Dev 0

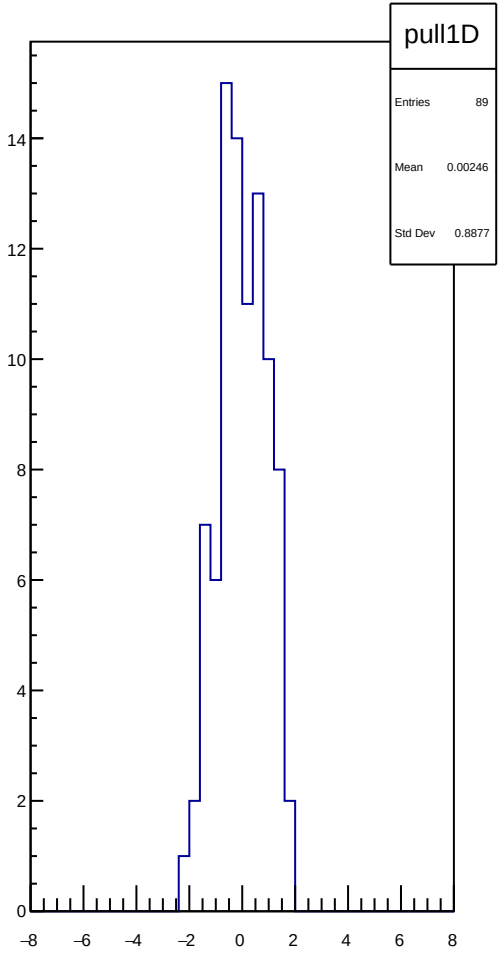

pull1D
Entries 89
Mean −0.02712
Std Dev 0.9678

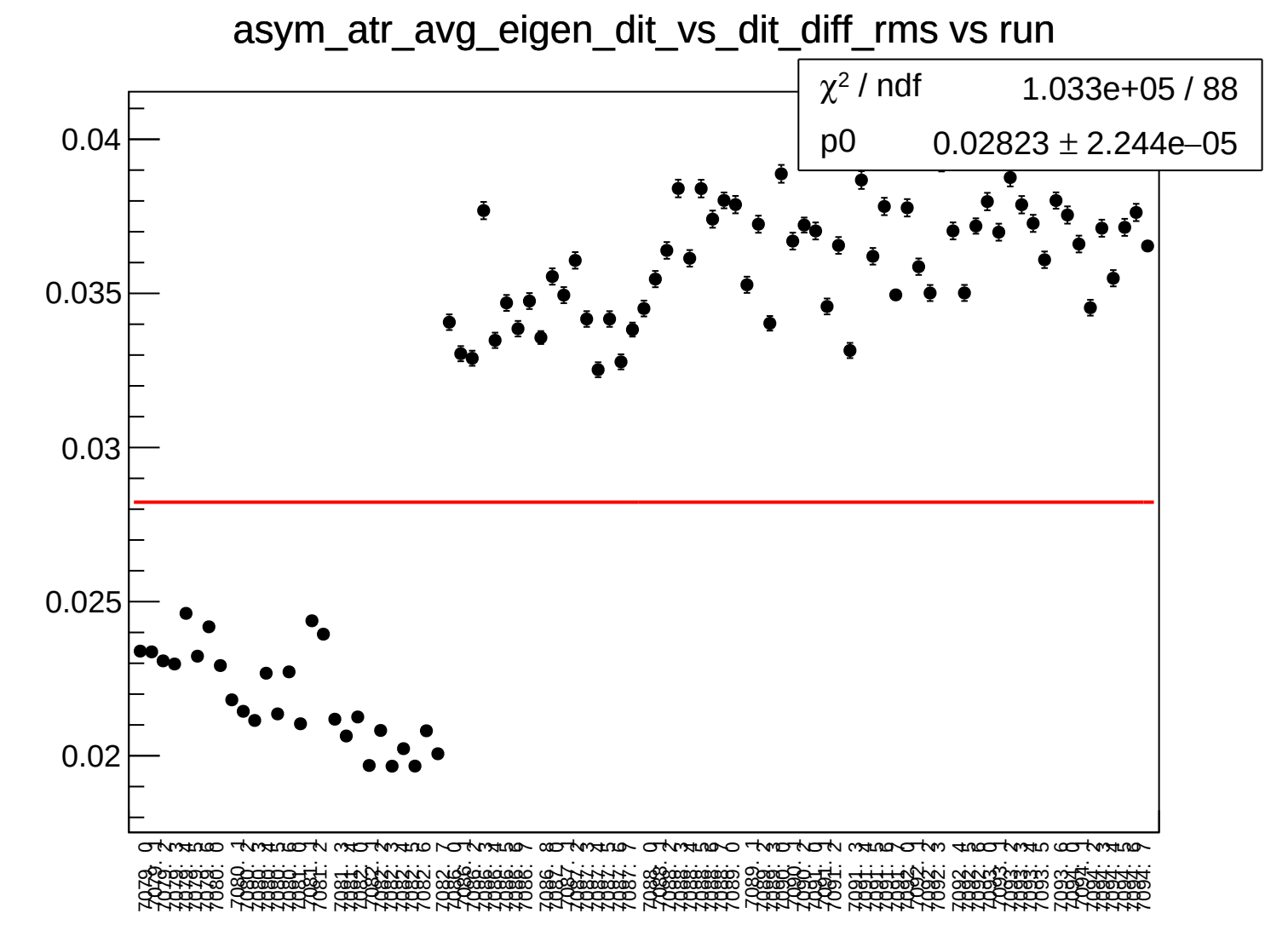

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.642e+04 / 88
p0 347 ± 0.2702
600
550
500
450
400
350
300
250

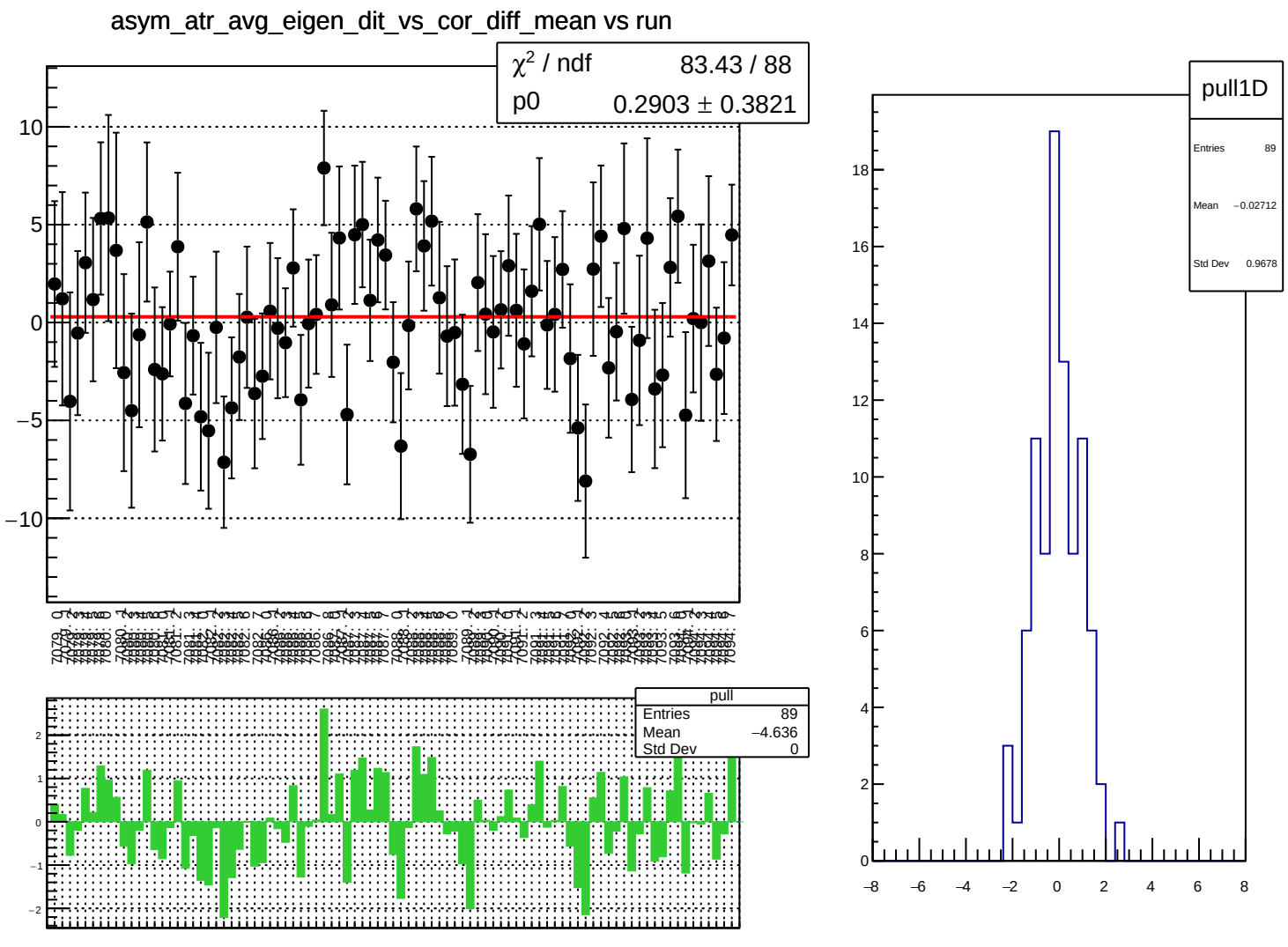

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.43 / 88
p0 0.2904 ± 0.3821
pull
Entries 89
Mean −4.642
Std Dev 0
pull1D
Entries 89
Mean −0.02712
Std Dev 0.9678

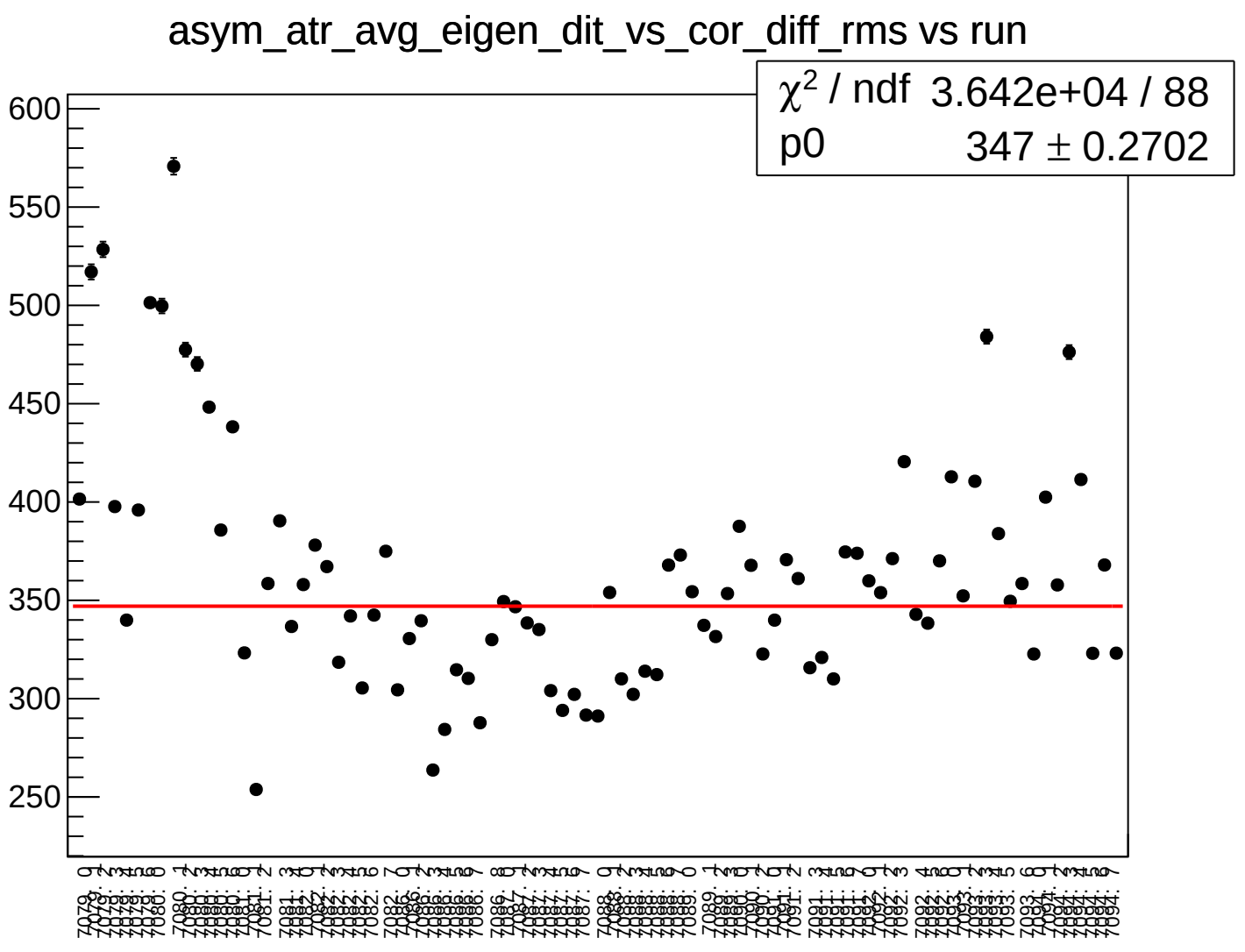

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.642e+04 / 88
p0 347 ± 0.2702
600
550
500
450
400
350
300
250

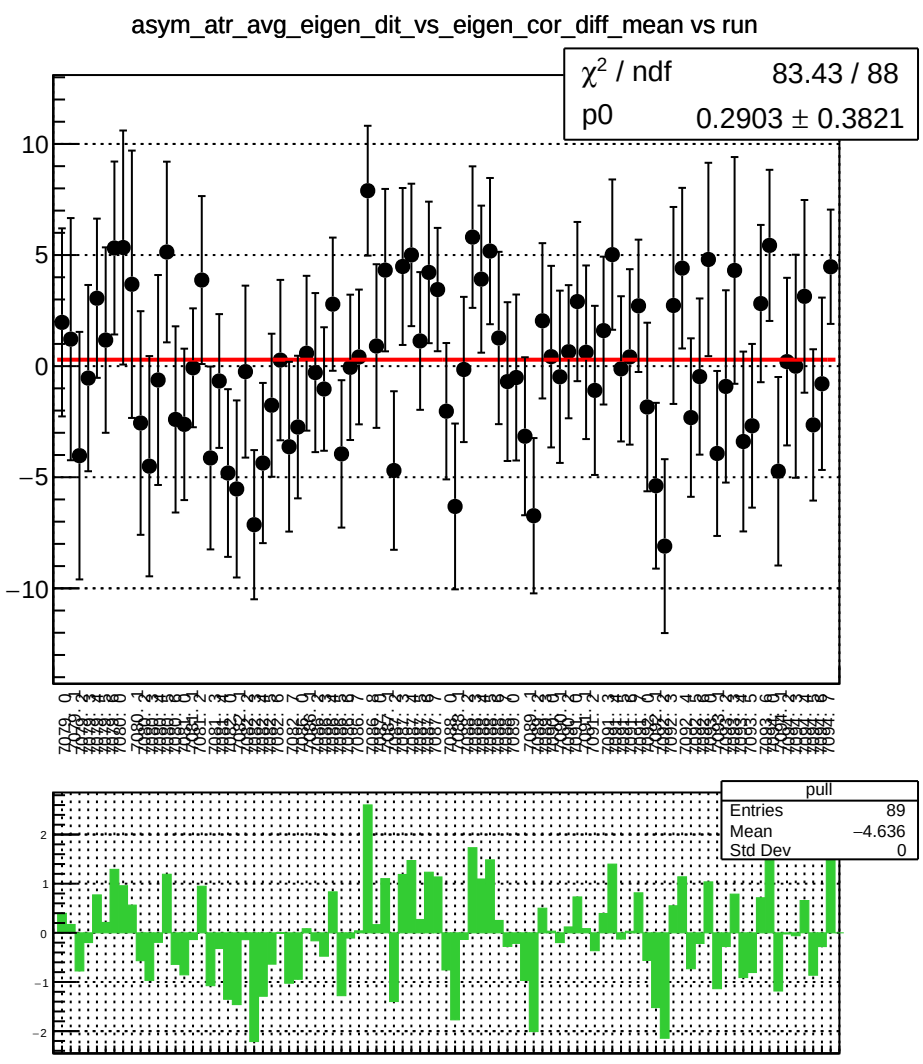

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.14 / 88
p0 −3.446e−05 ± 3.173e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean −506.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

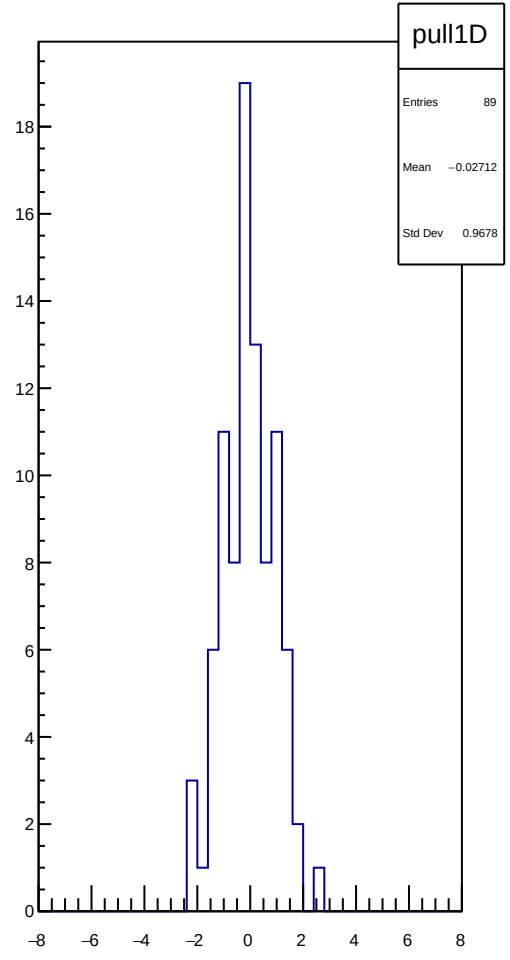

pull1D
Entries 89
Mean 0.00246
Std Dev 0.8877
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

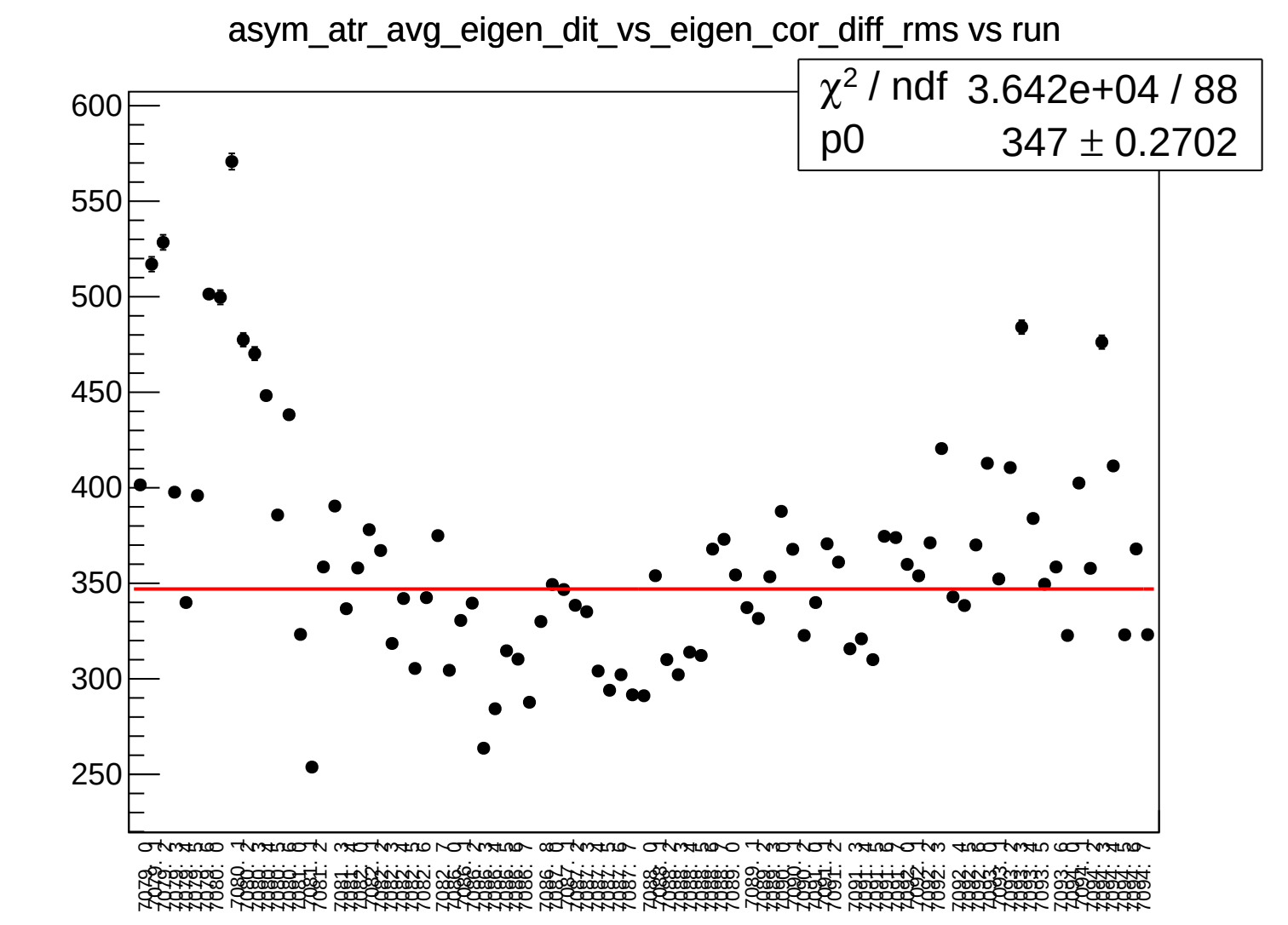

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.033e+05 / 88
p0 0.02823 ± 2.244e−05
0.04
0.035
0.03
0.025
0.02

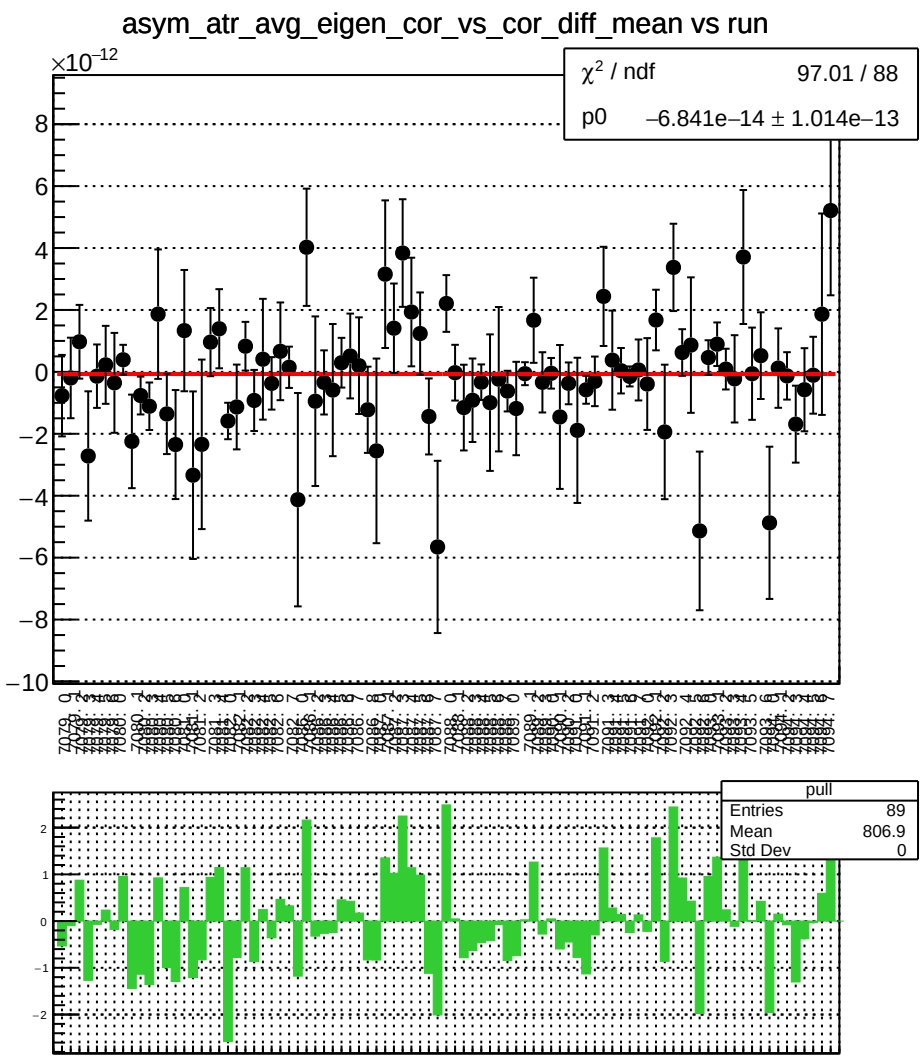

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.43 / 88
p0 0.2903 ± 0.3821
pull
Entries 89
Mean −4.636
Std Dev 0
pull1D
Entries 89
Mean −0.02712
Std Dev 0.9678

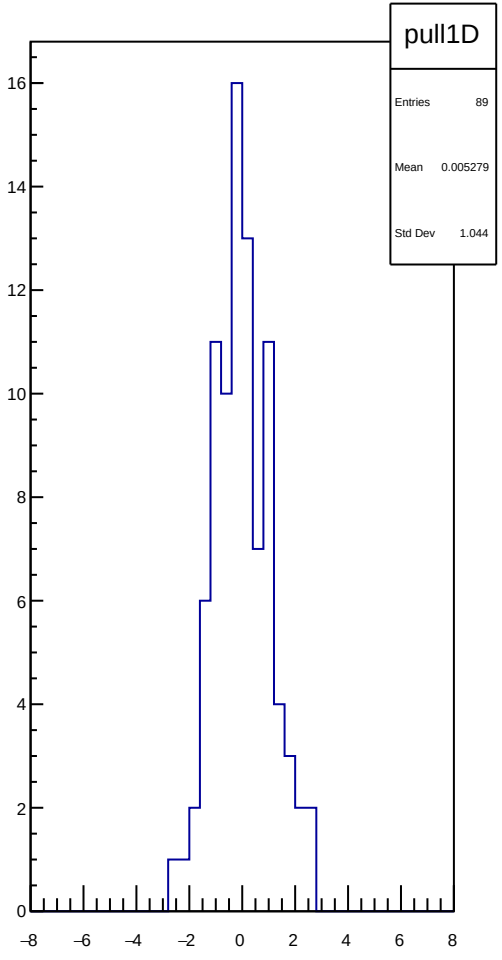

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.642e+04 / 88
p0 347 ± 0.2702
600
550
500
450
400
350
300
250

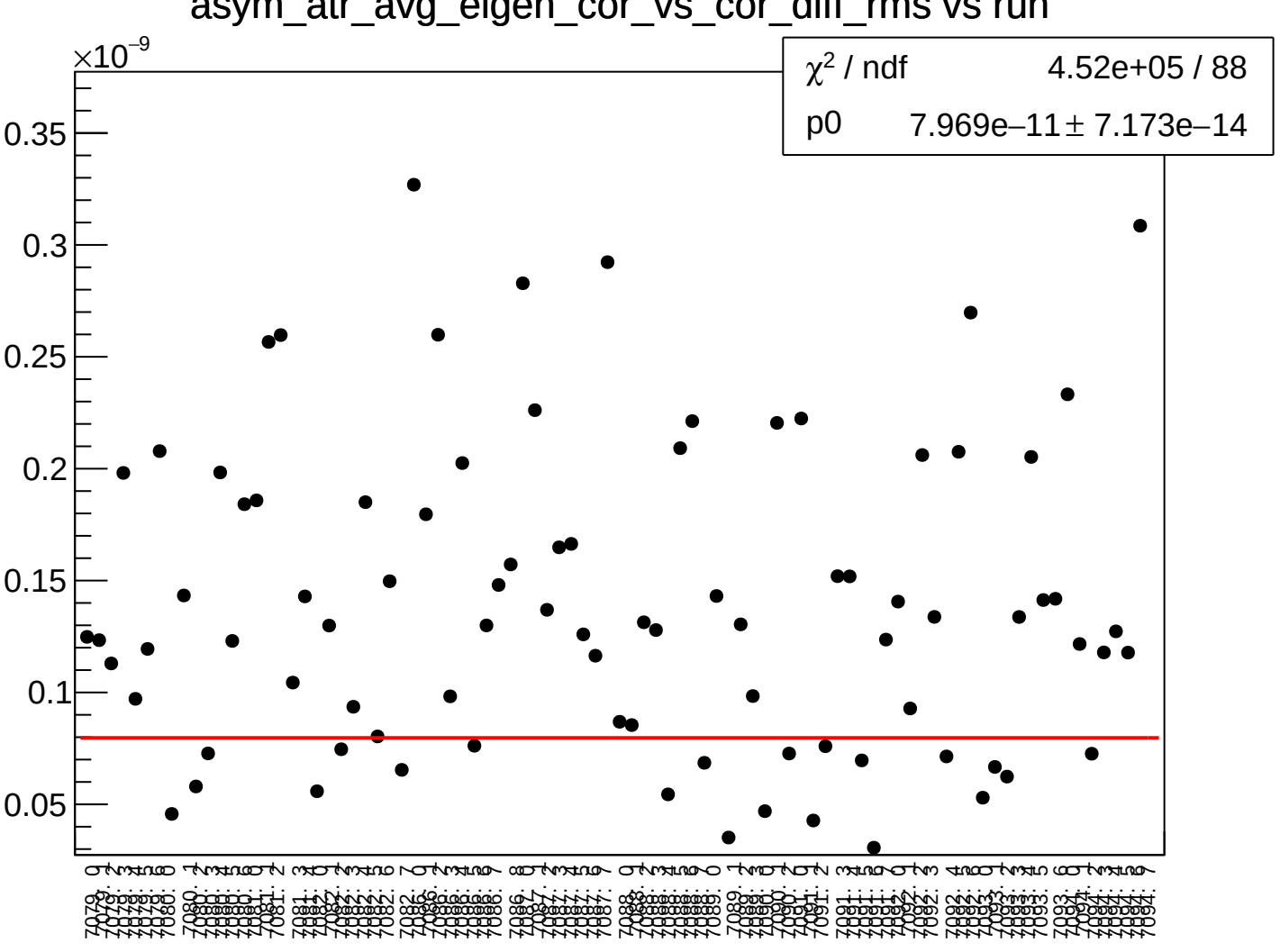

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.43 / 88
p0 0.2903 ± 0.3821
pull
Entries 89
Mean −4.636
Std Dev 0

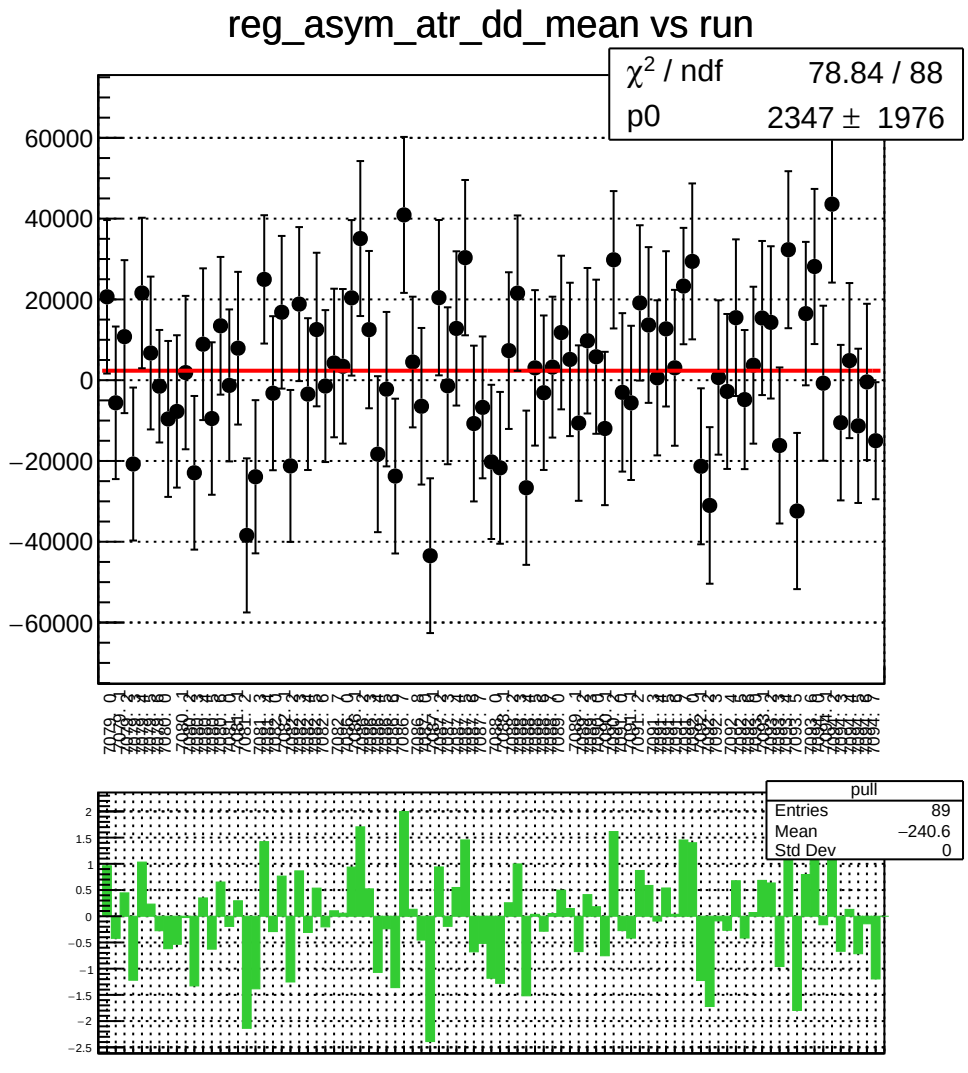

pull1D
Entries 89
Mean −0.02712
Std Dev 0.9678

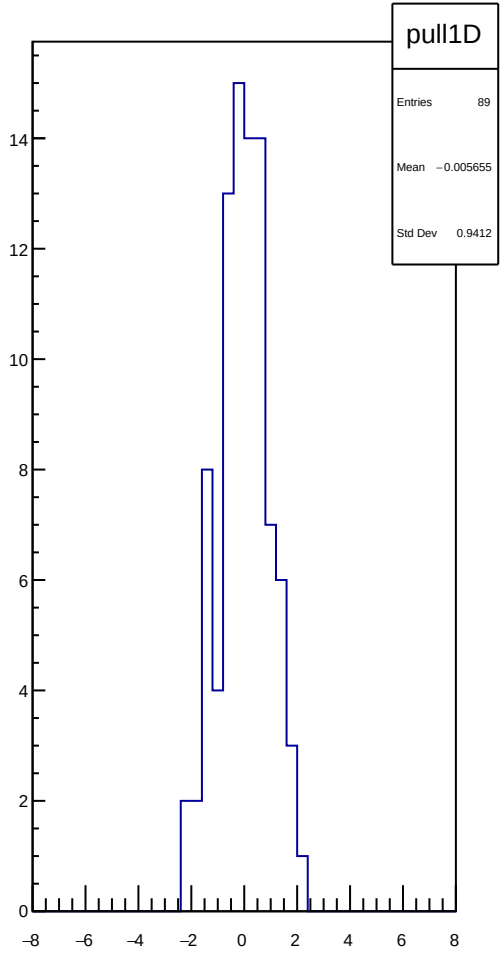

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.642e+04 / 88
p0 347 ± 0.2702
600
550
500
450
400
350
300
250

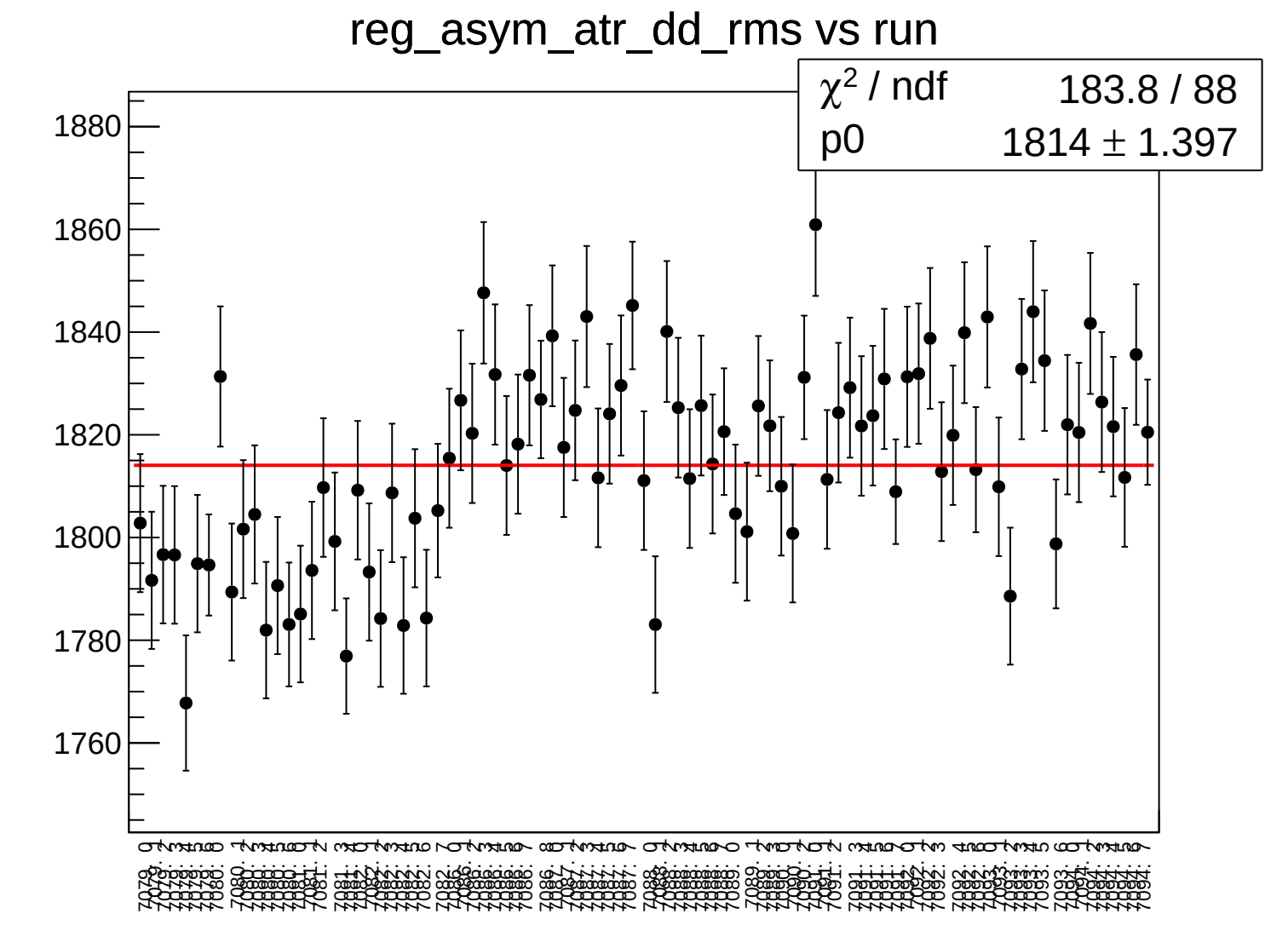

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.01 / 88
p0 −6.841e−14 ± 1.014e−13
pull
Entries 89
Mean 806.9
Std Dev 0

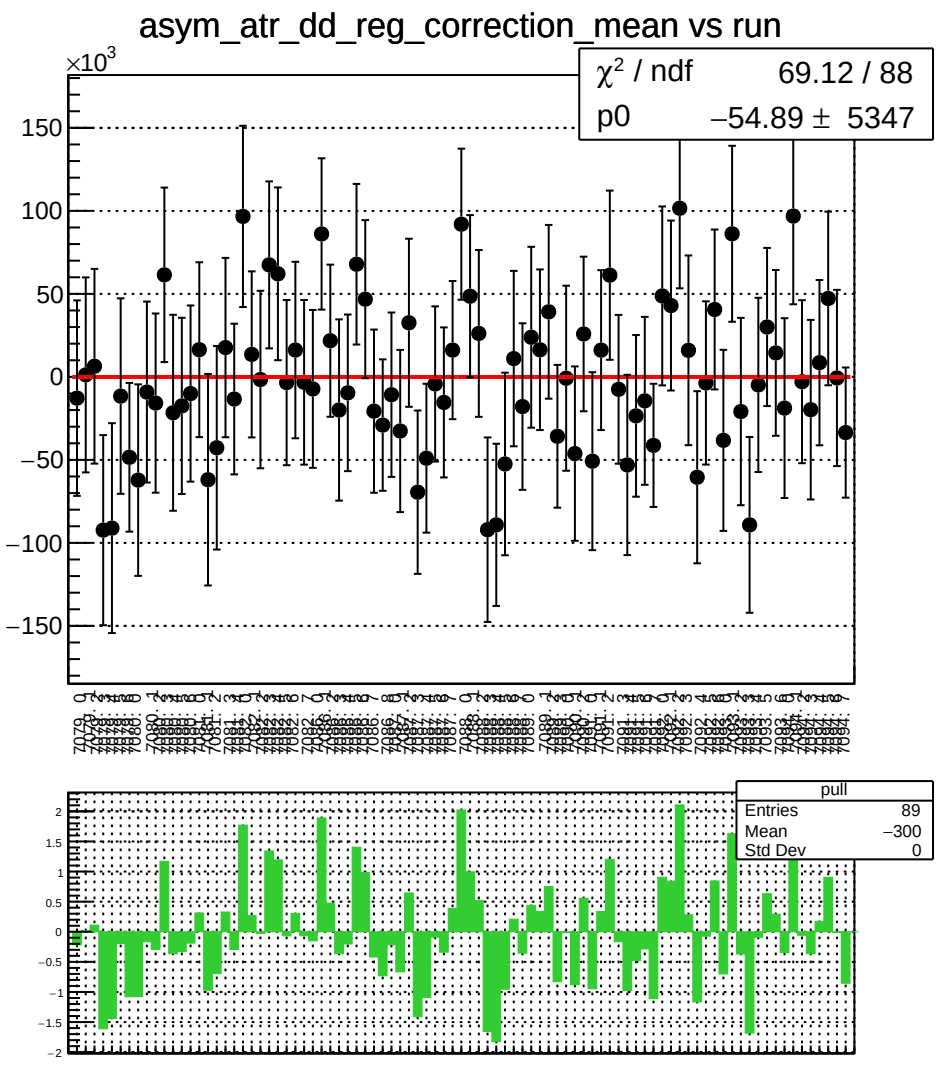

pull1D
Entries 89
Mean 0.005279
Std Dev 1.044

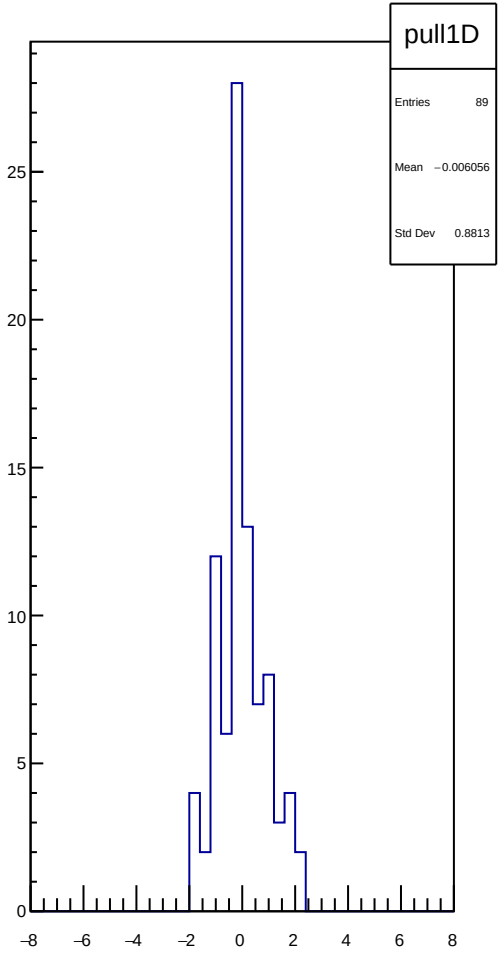

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.52e+05 / 88
p0 7.969e−11 ± 7.173e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

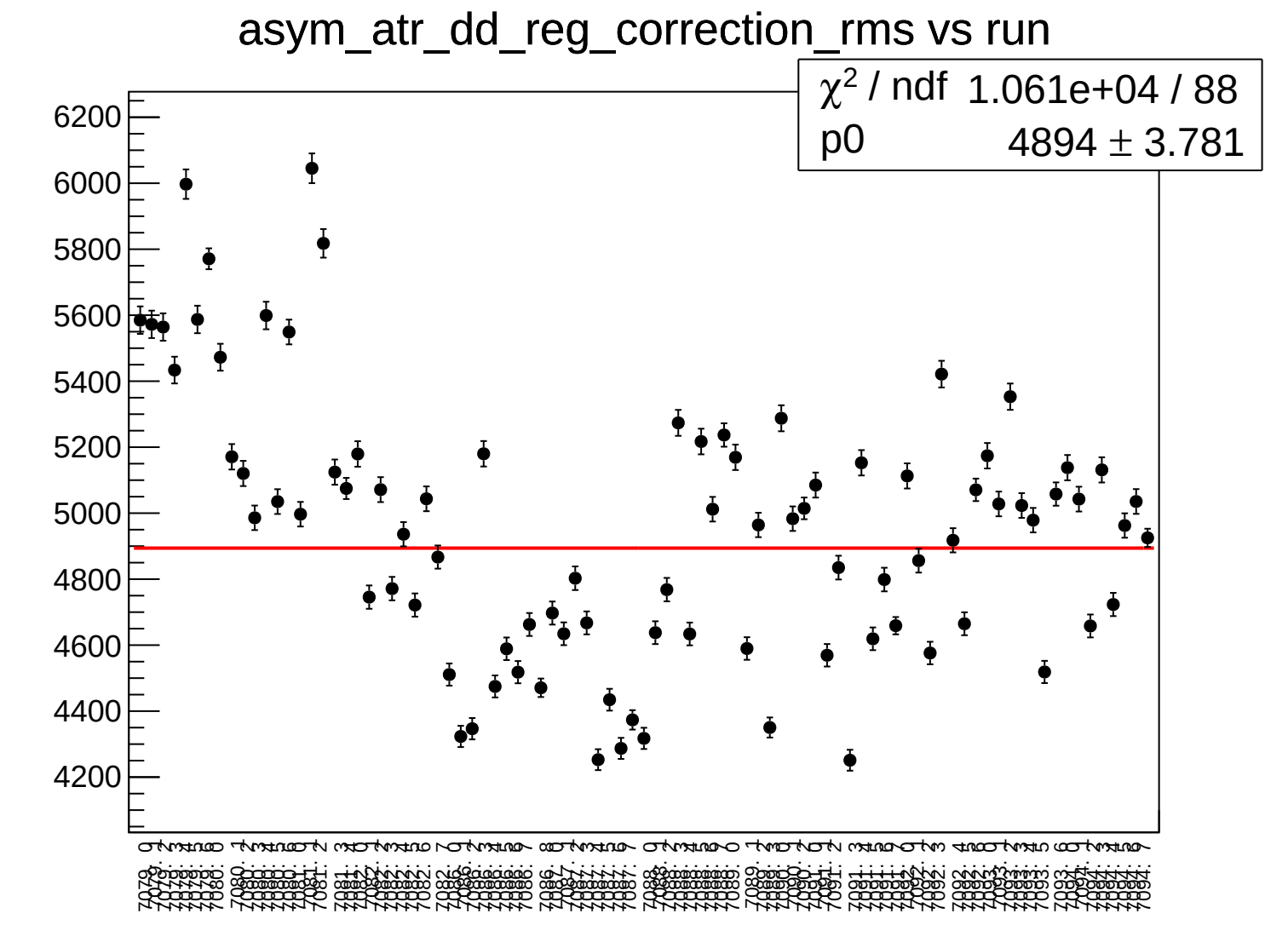

reg_asym_atr_dd_mean vs run
χ² / ndf 78.84 / 88
p0 2347 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −240.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

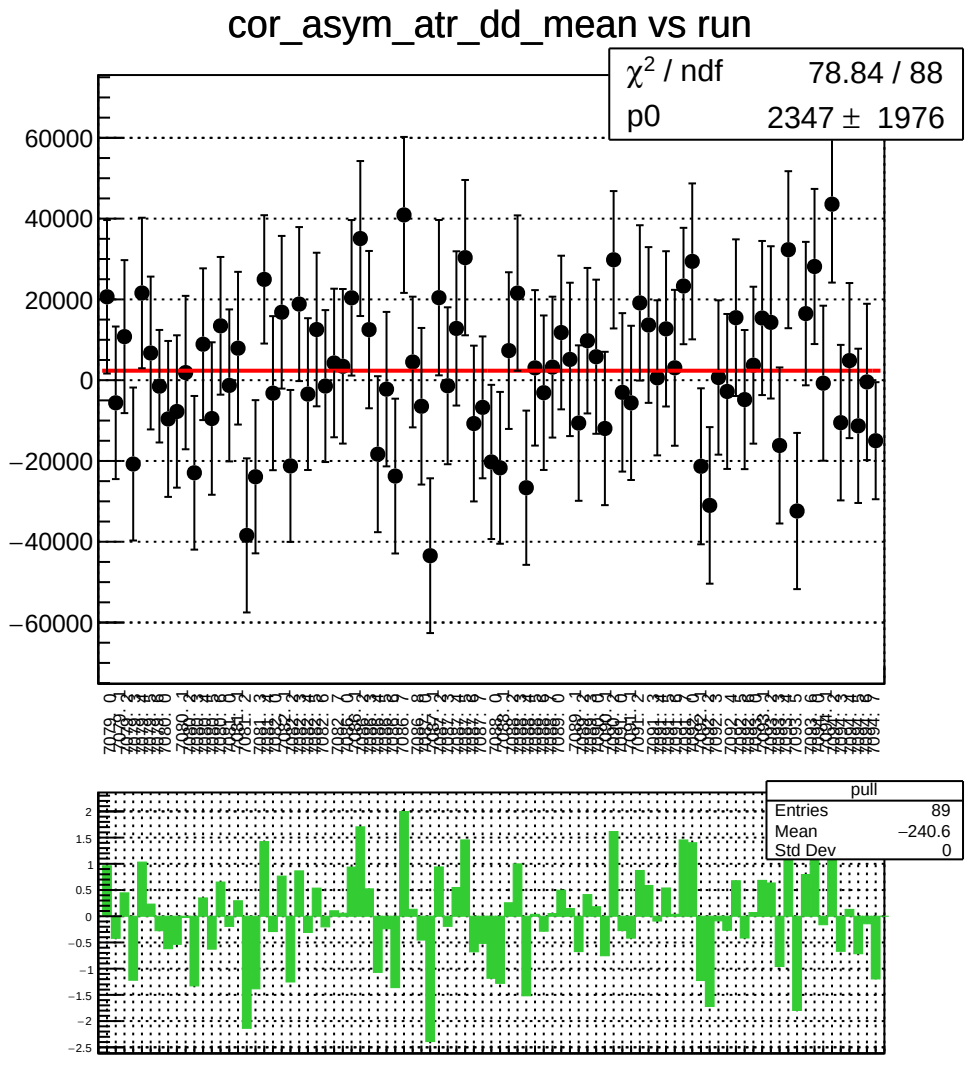

pull1D
Entries 89
Mean −0.005655
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

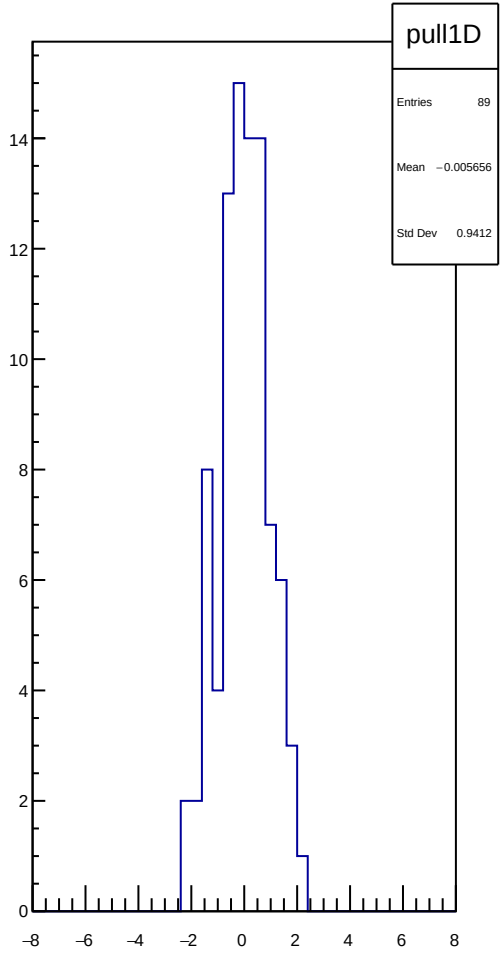

reg_asym_atr_dd_rms vs run
χ^2 / ndf 183.8 / 88
p0 1814 ± 1.397
1880
1860
1840
1820
1800
1780
1760

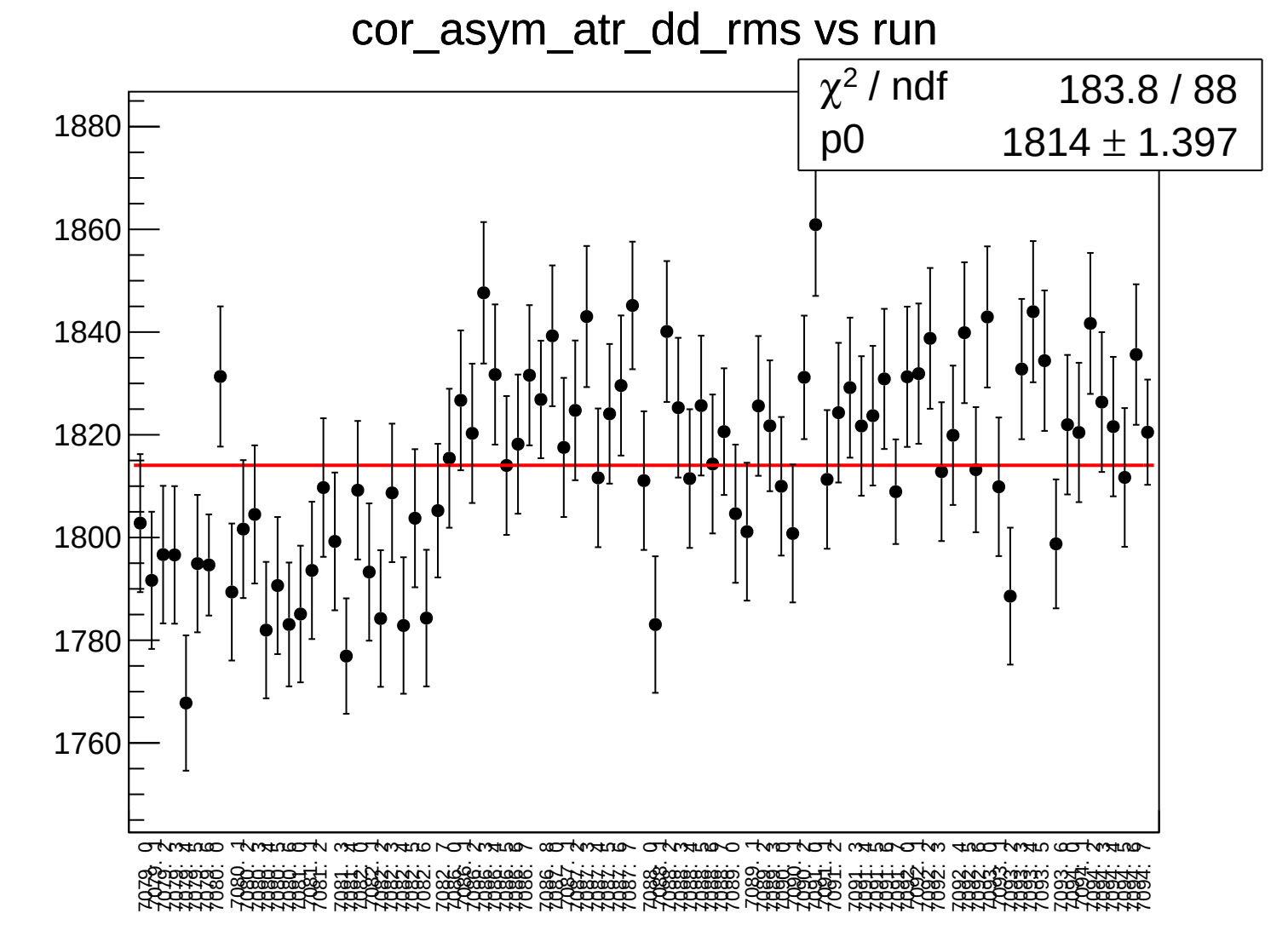

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 69.12 / 88
p0 −54.89 ± 5347
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −300
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

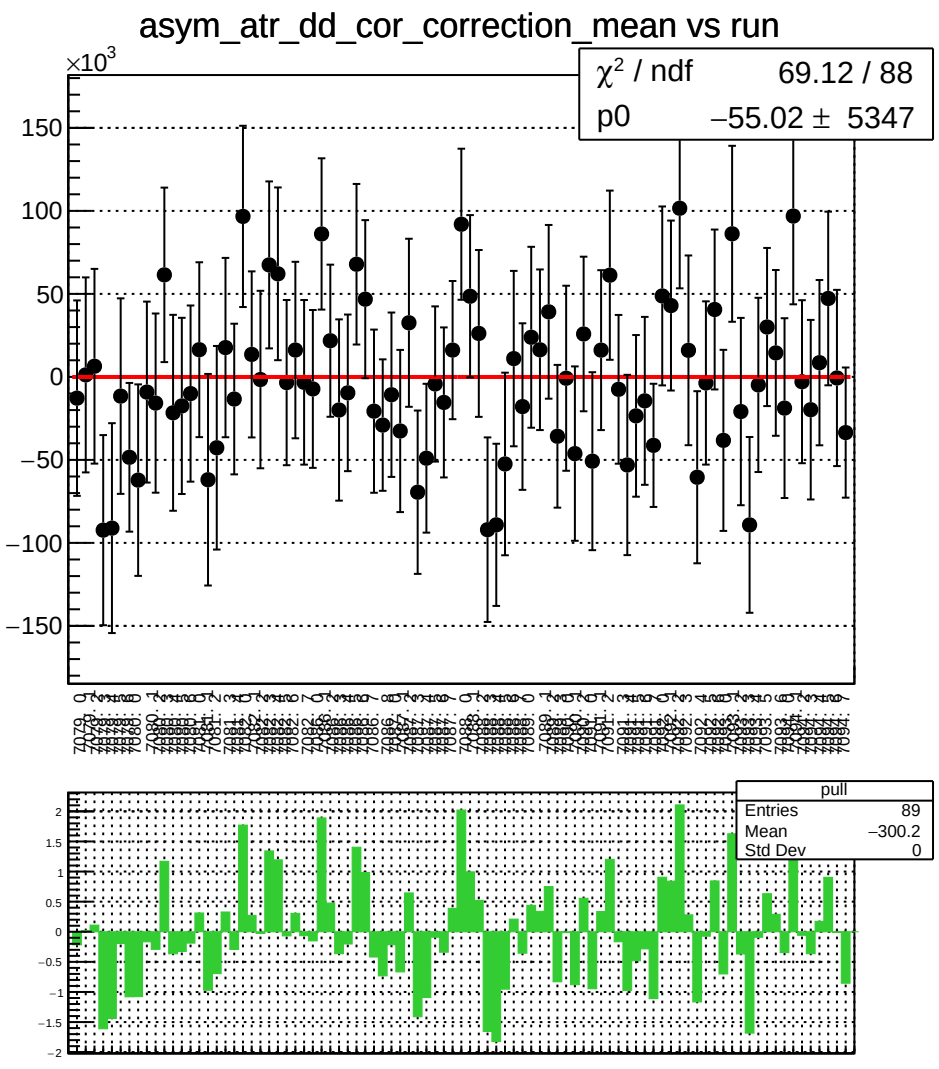

pull1D
Entries 89
Mean −0.006056
Std Dev 0.8813
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

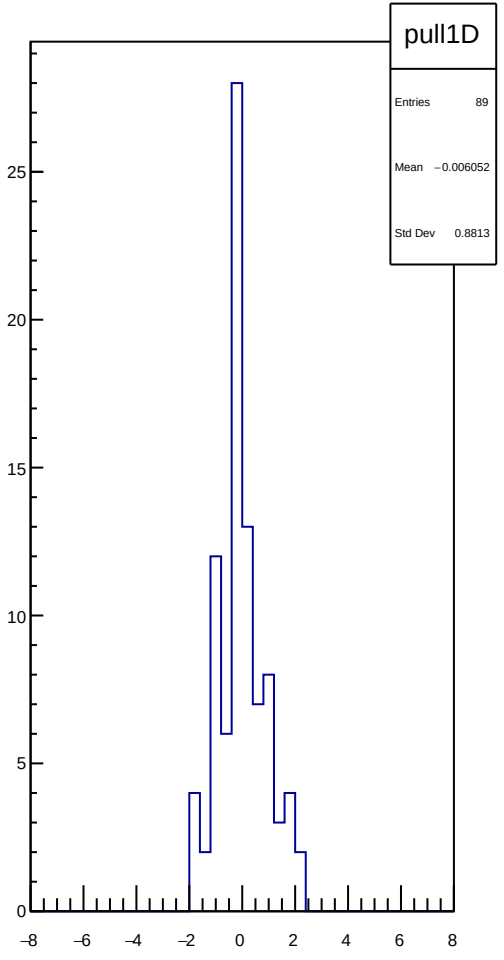

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.061e+04 / 88
p0 4894 ± 3.781
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

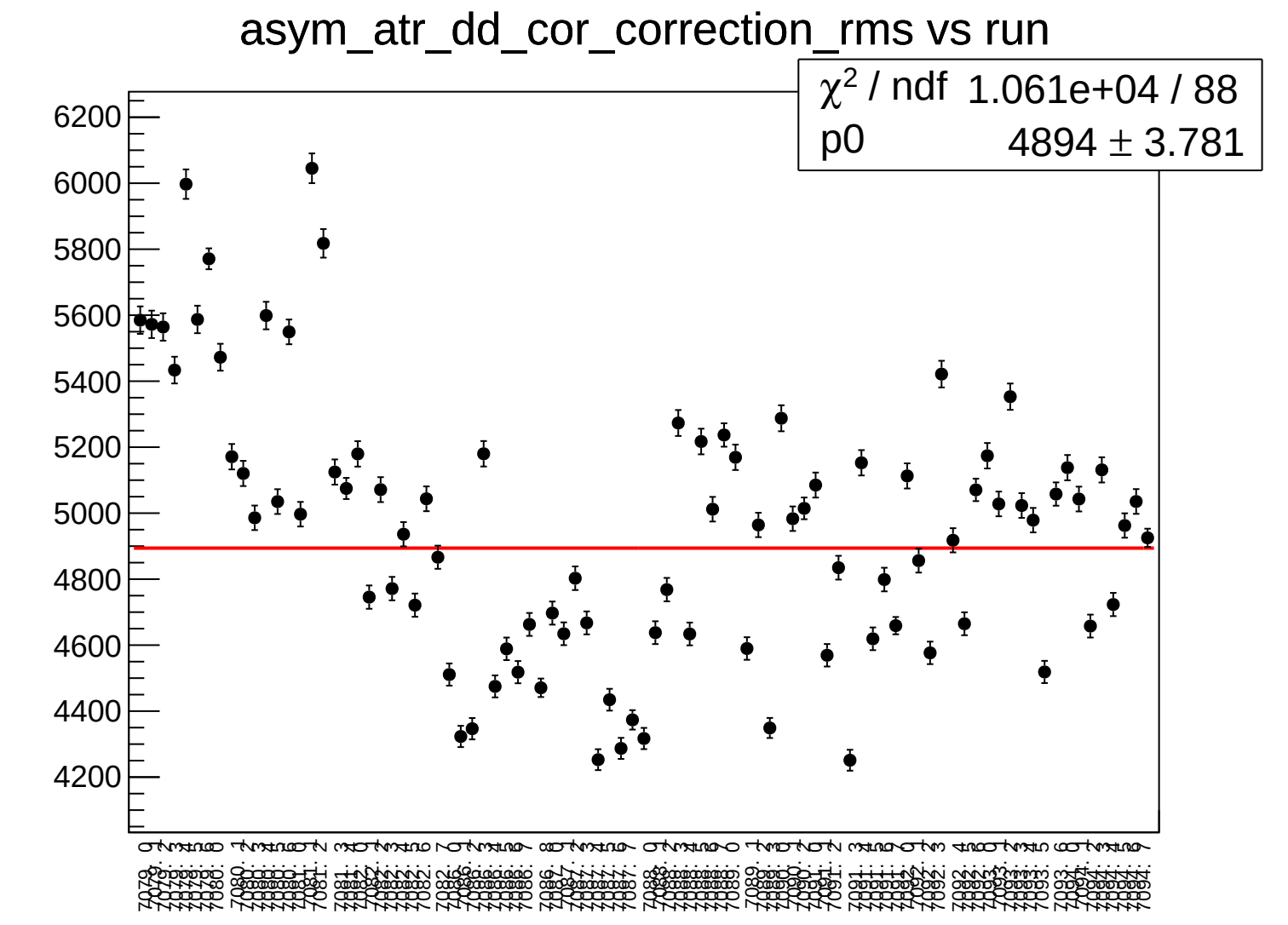

cor_asym_atr_dd_mean vs run
χ² / ndf 78.84 / 88
p0 2347 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −240.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

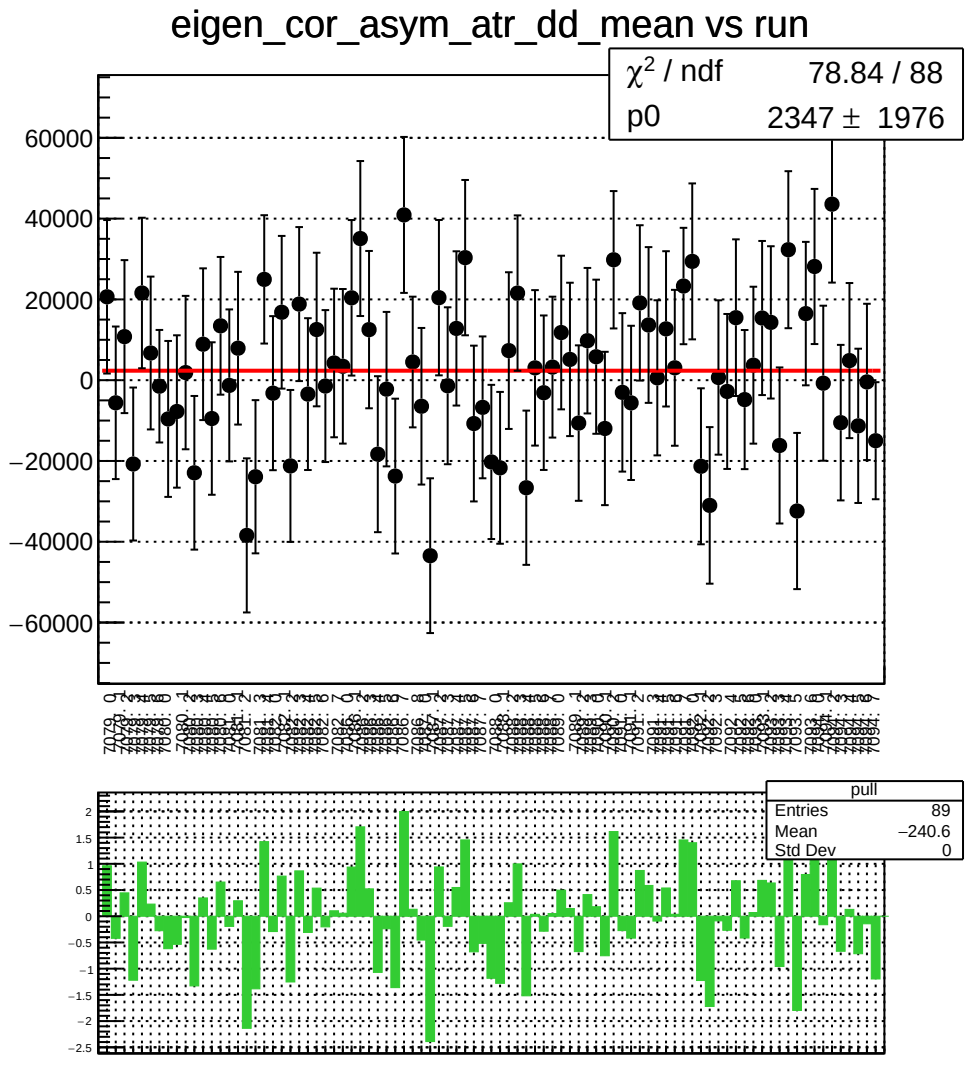

pull1D
Entries 89
Mean −0.005656
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

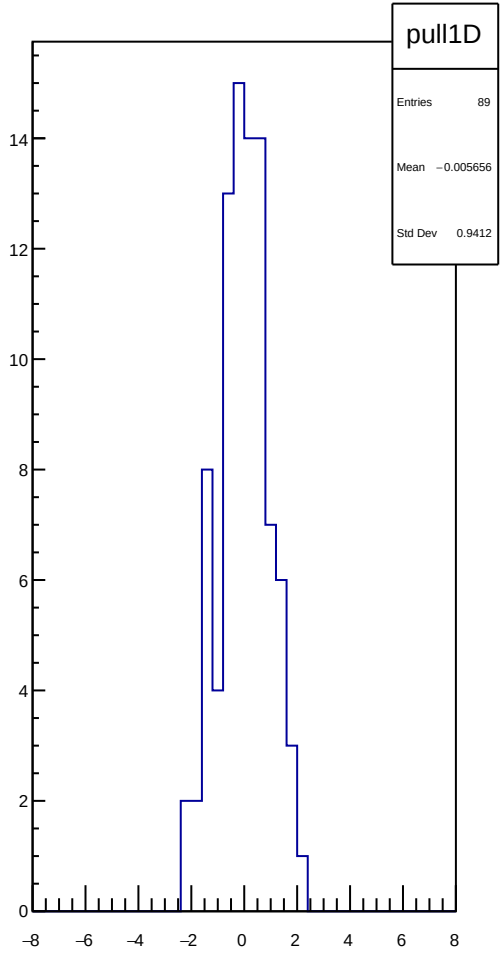

cor_asym_atr_dd_rms vs run
χ² / ndf 183.8 / 88
p0 1814 ± 1.397
1880
1860
1840
1820
1800
1780
1760

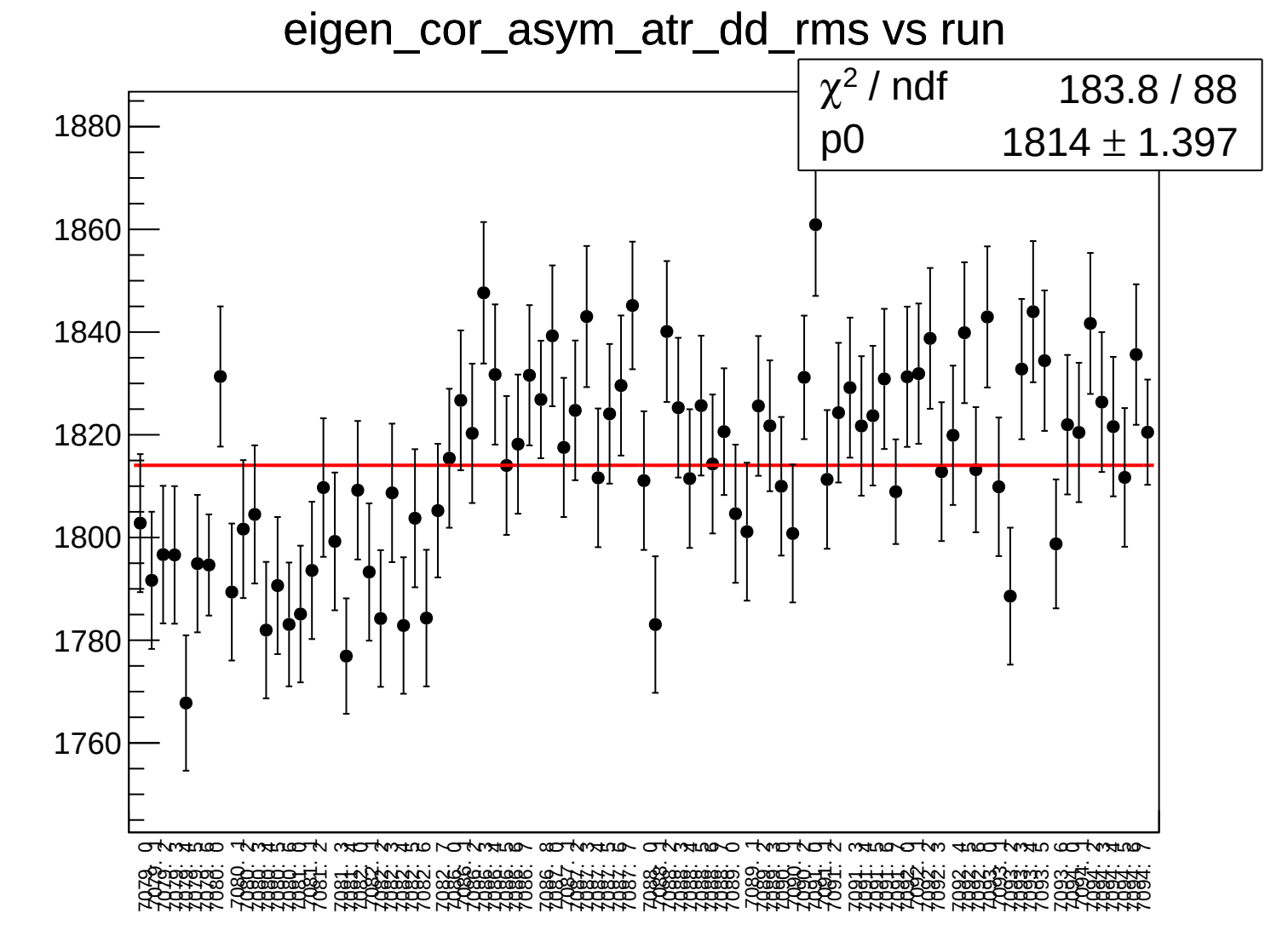

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 69.12 / 88
p0 −55.02 ± 5347
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −300.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

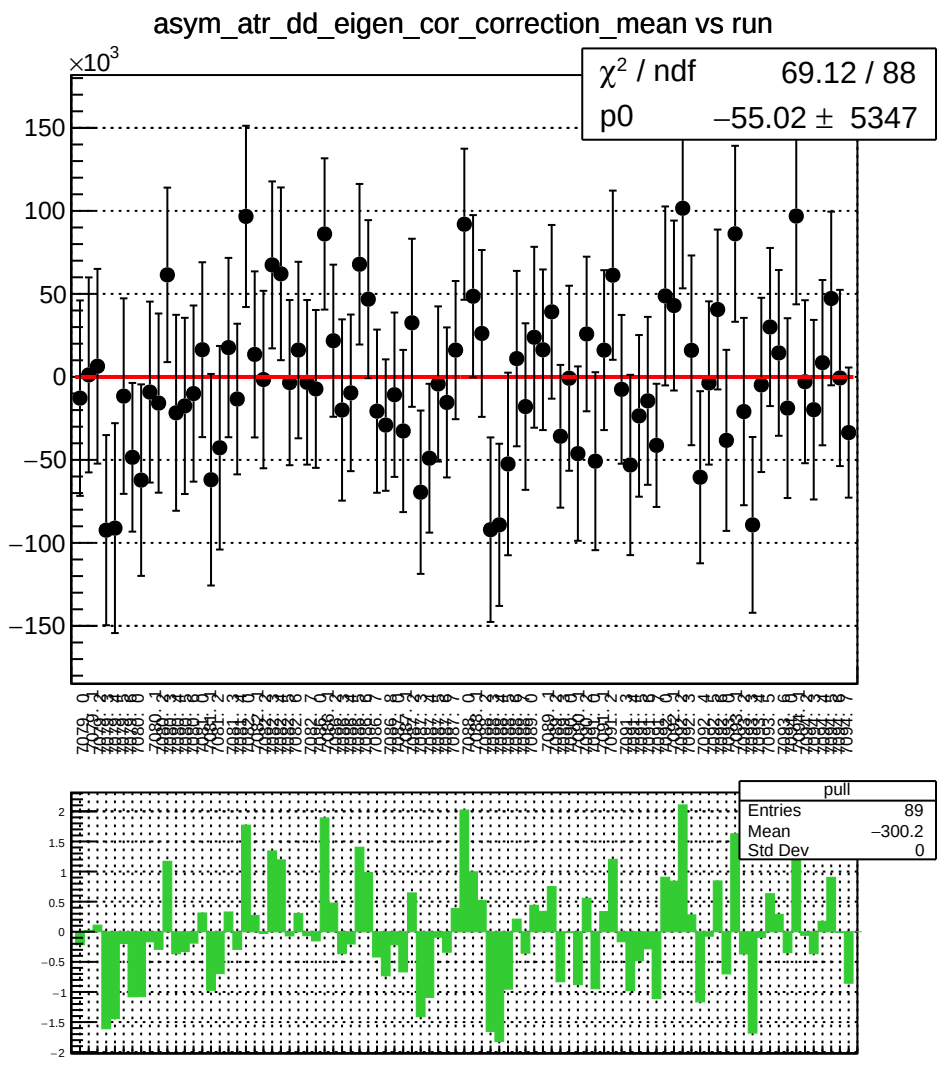

pull1D
Entries 89
Mean −0.006052
Std Dev 0.8813
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

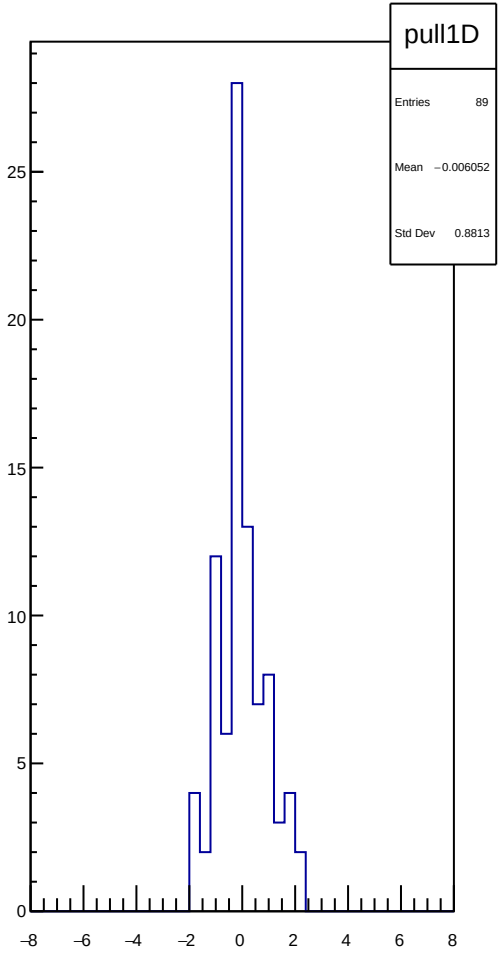

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.061e+04 / 88
p0 4894 ± 3.781
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

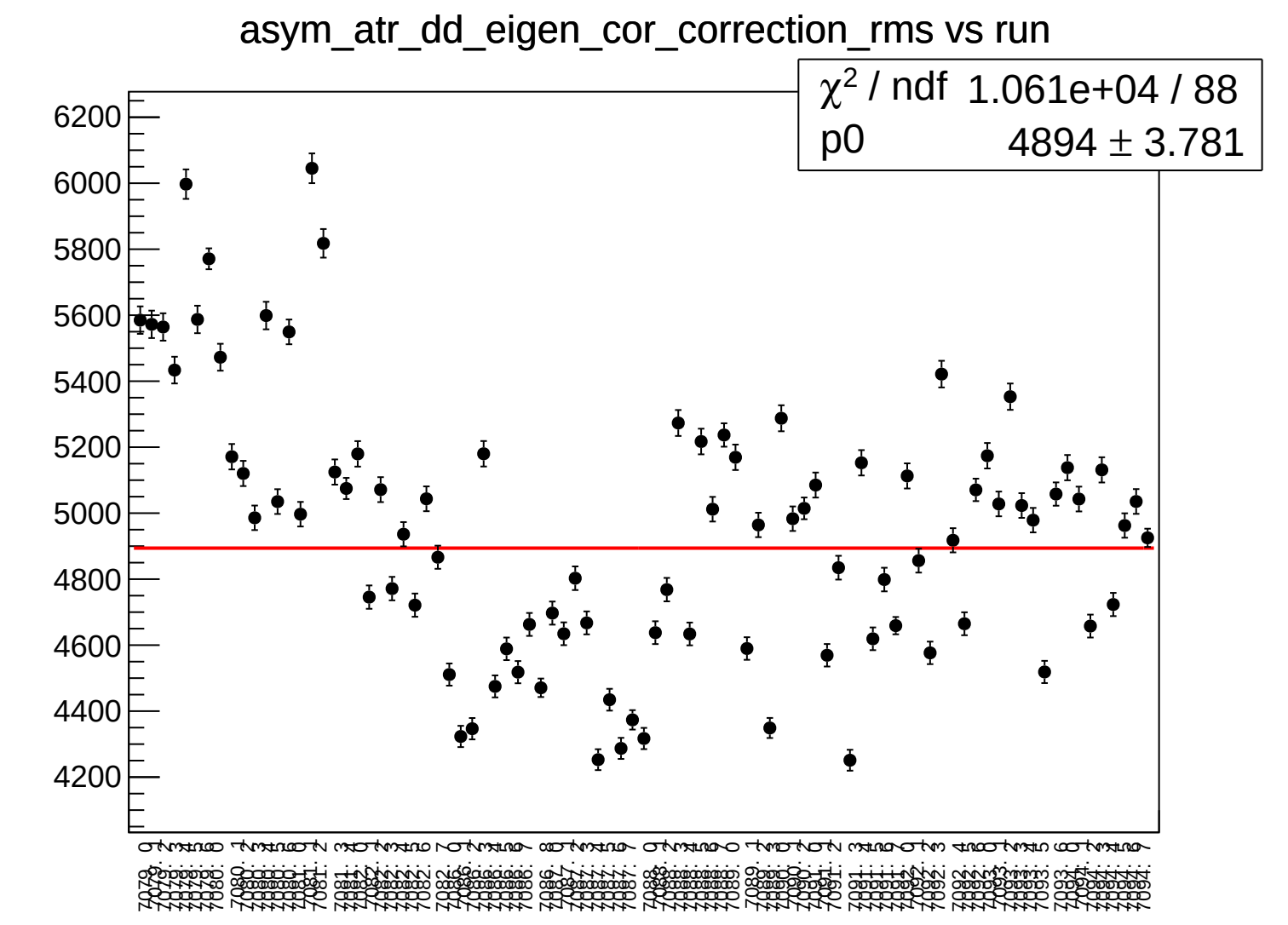

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 78.84 / 88
p0 2347 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −240.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

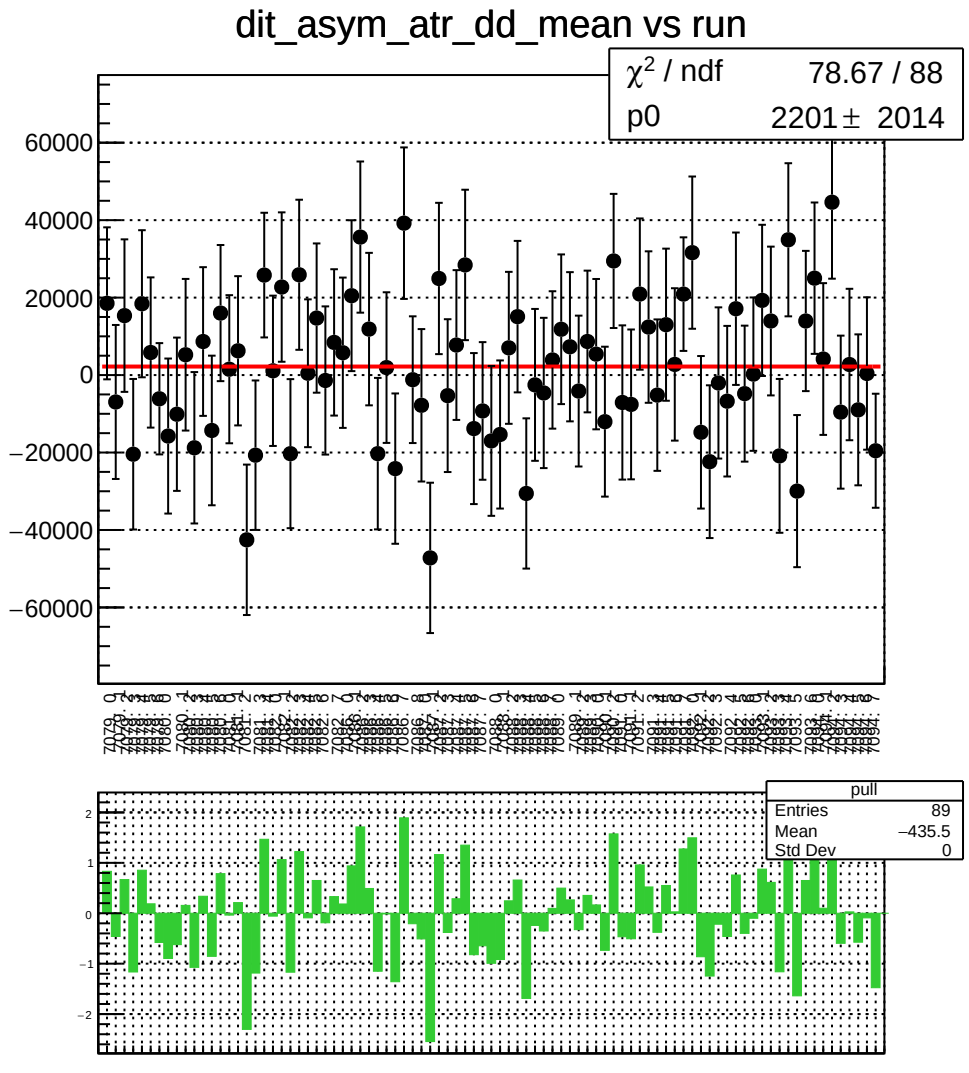

pull1D
Entries 89
Mean −0.005656
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

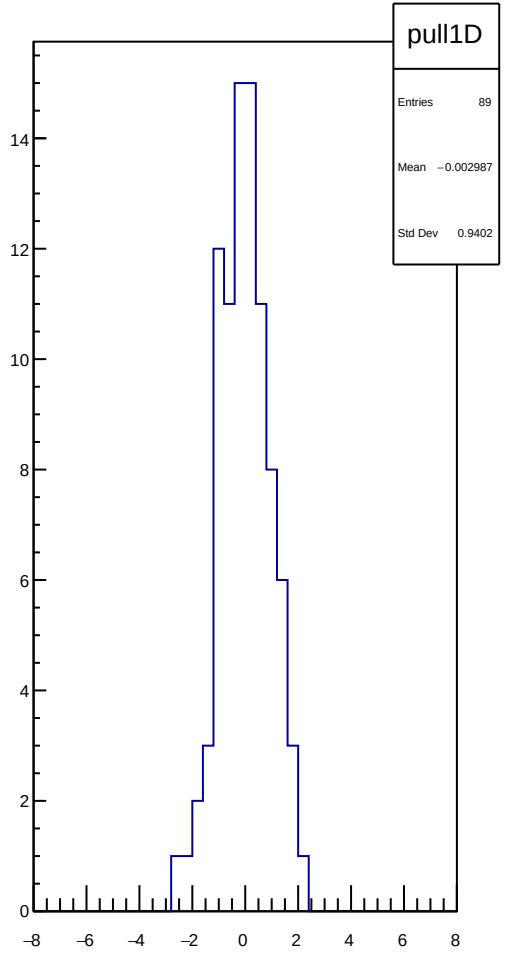

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 183.8 / 88
p0 1814 ± 1.397
1880
1860
1840
1820
1800
1780
1760

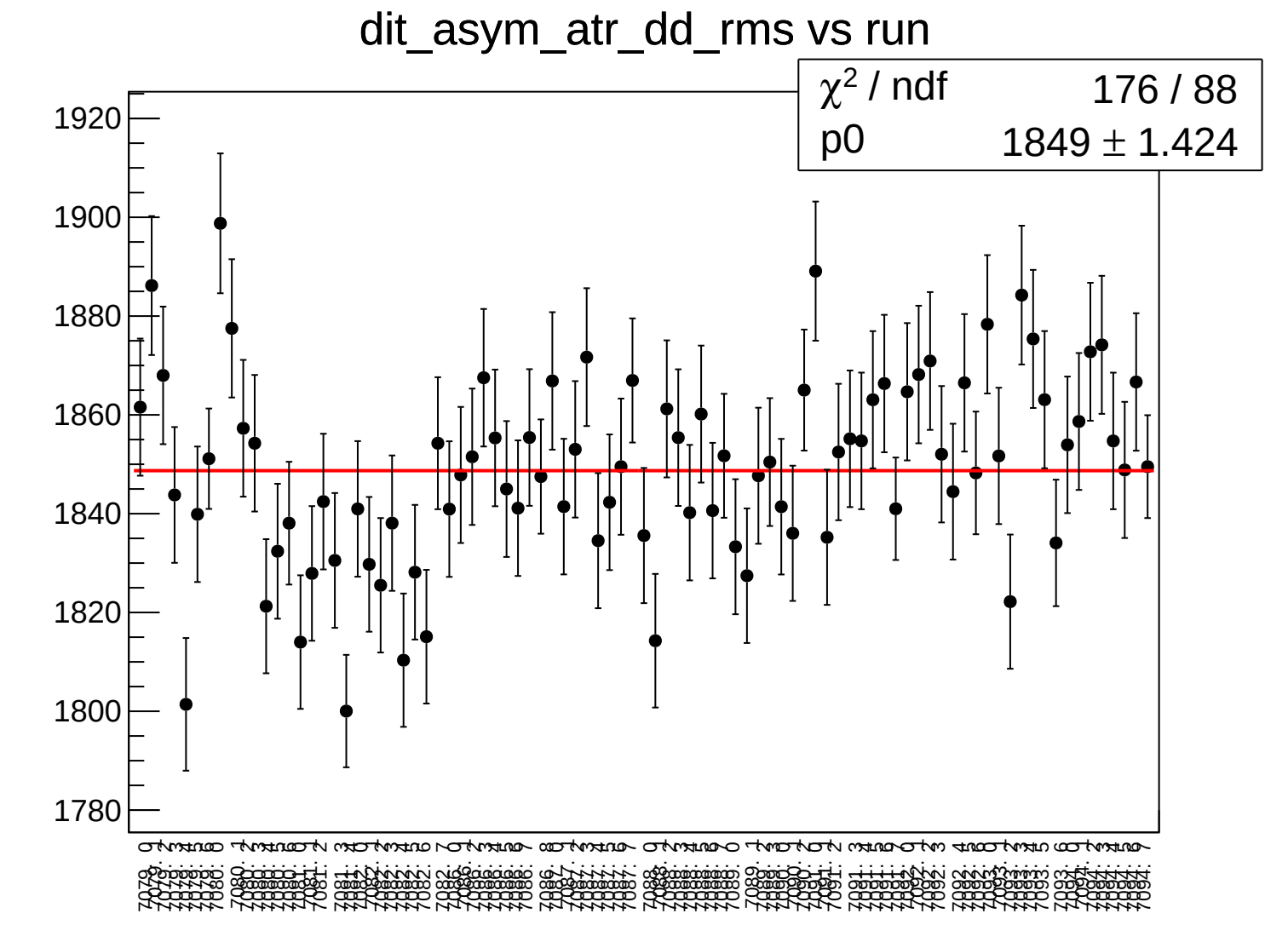

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.12 / 88
p0 −55.02 ± 5347
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −300.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

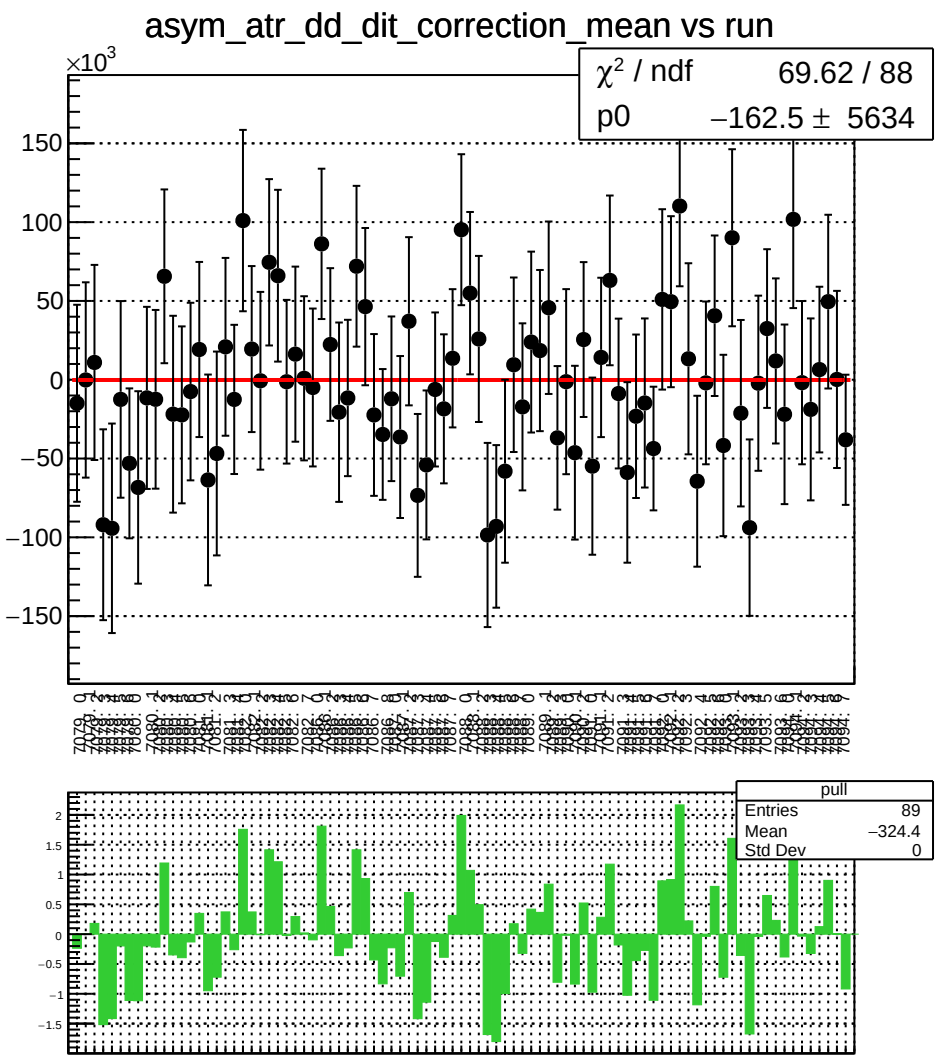

pull1D
Entries 89
Mean −0.006052
Std Dev 0.8813
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

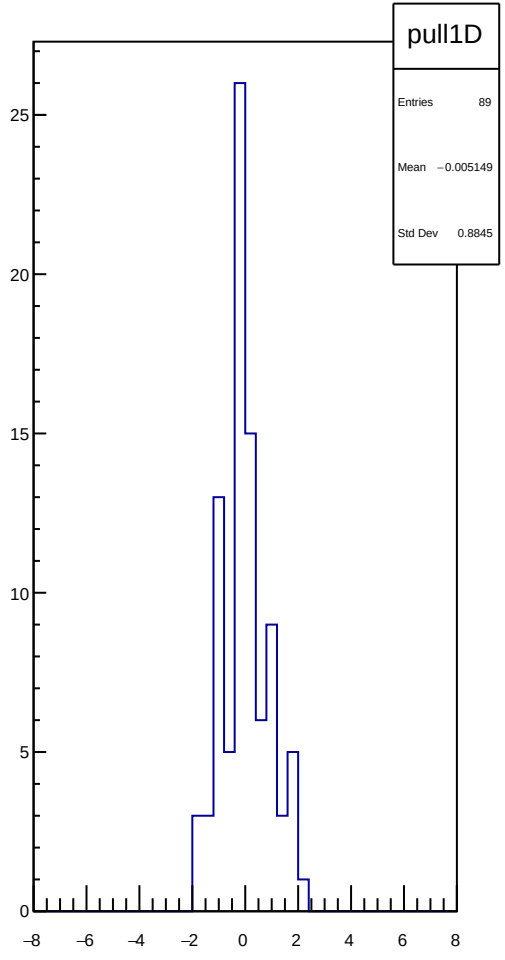

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.061e+04 / 88
p0 4894 ± 3.781
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200


dit_asym_atr_dd_mean vs run
χ² / ndf 78.67 / 88
p0 2201 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −435.5
Std Dev 0
2
1
0
−1
−2

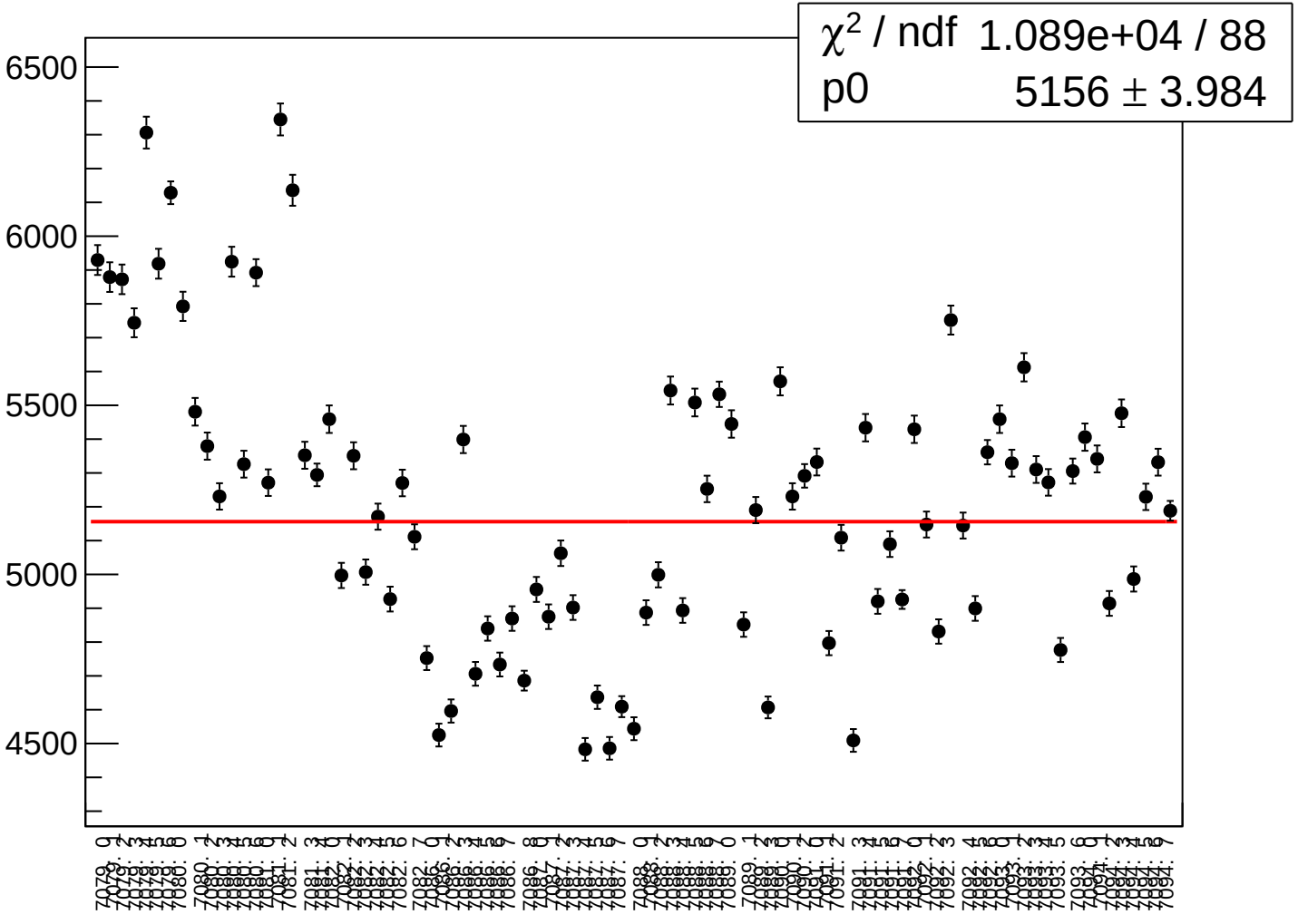

pull1D
Entries 89
Mean −0.002987
Std Dev 0.9402
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

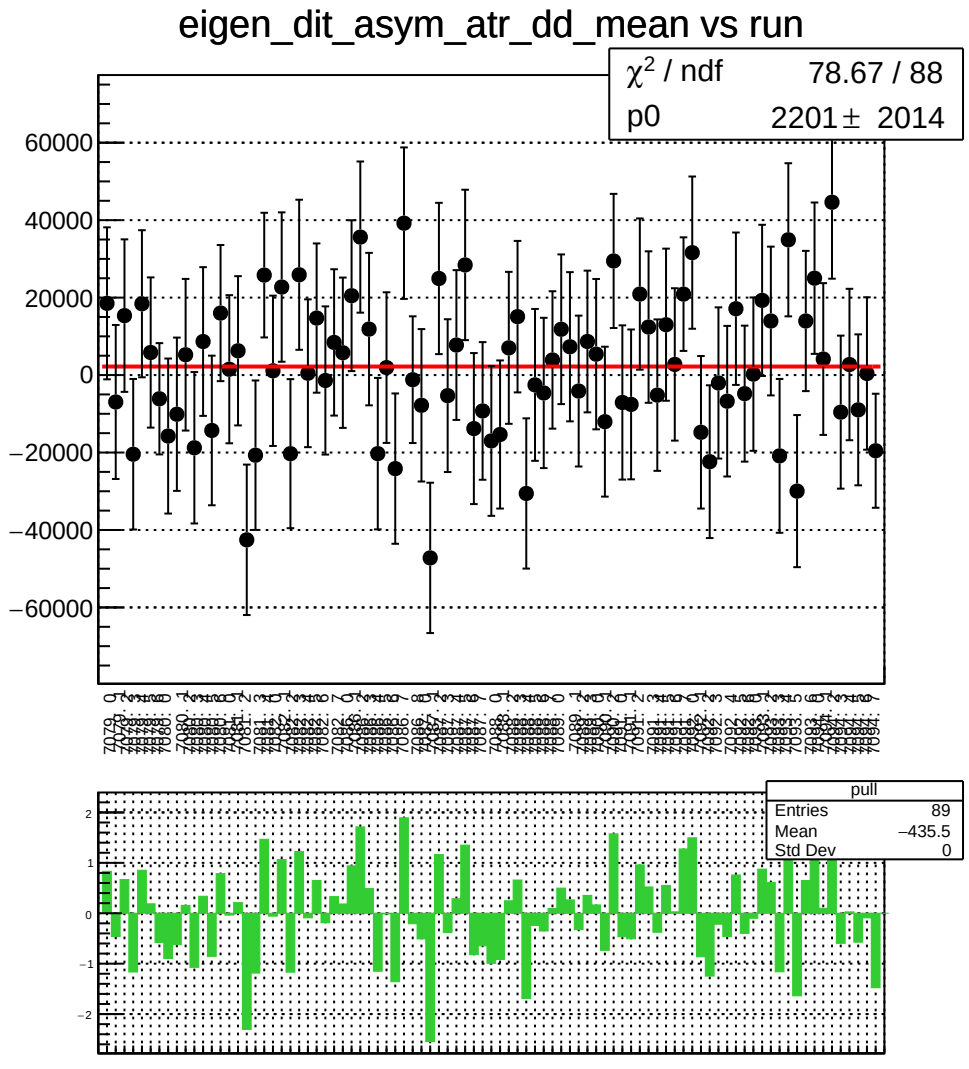

dit_asym_atr_dd_rms vs run
χ² / ndf 176 / 88
p0 1849 ± 1.424
1920
1900
1880
1860
1840
1820
1800
1780

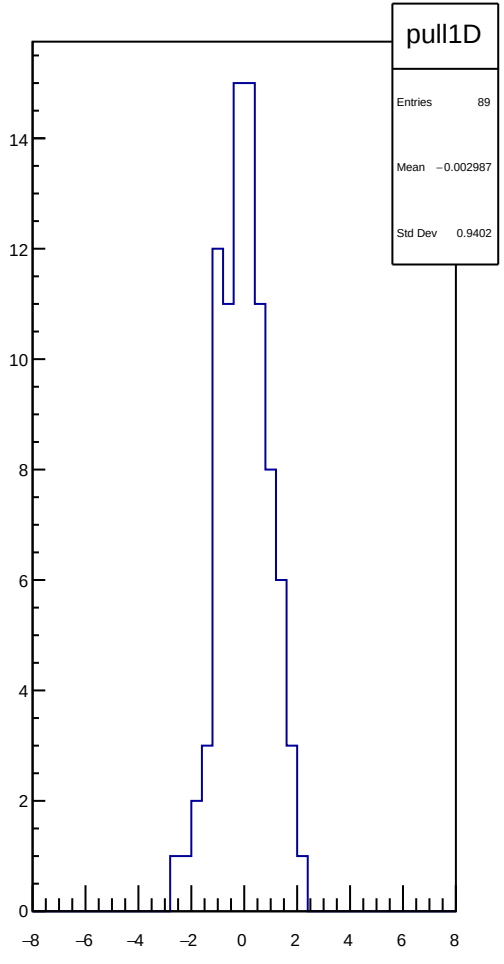

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 69.62 / 88
p0 −162.5 ± 5634
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −324.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

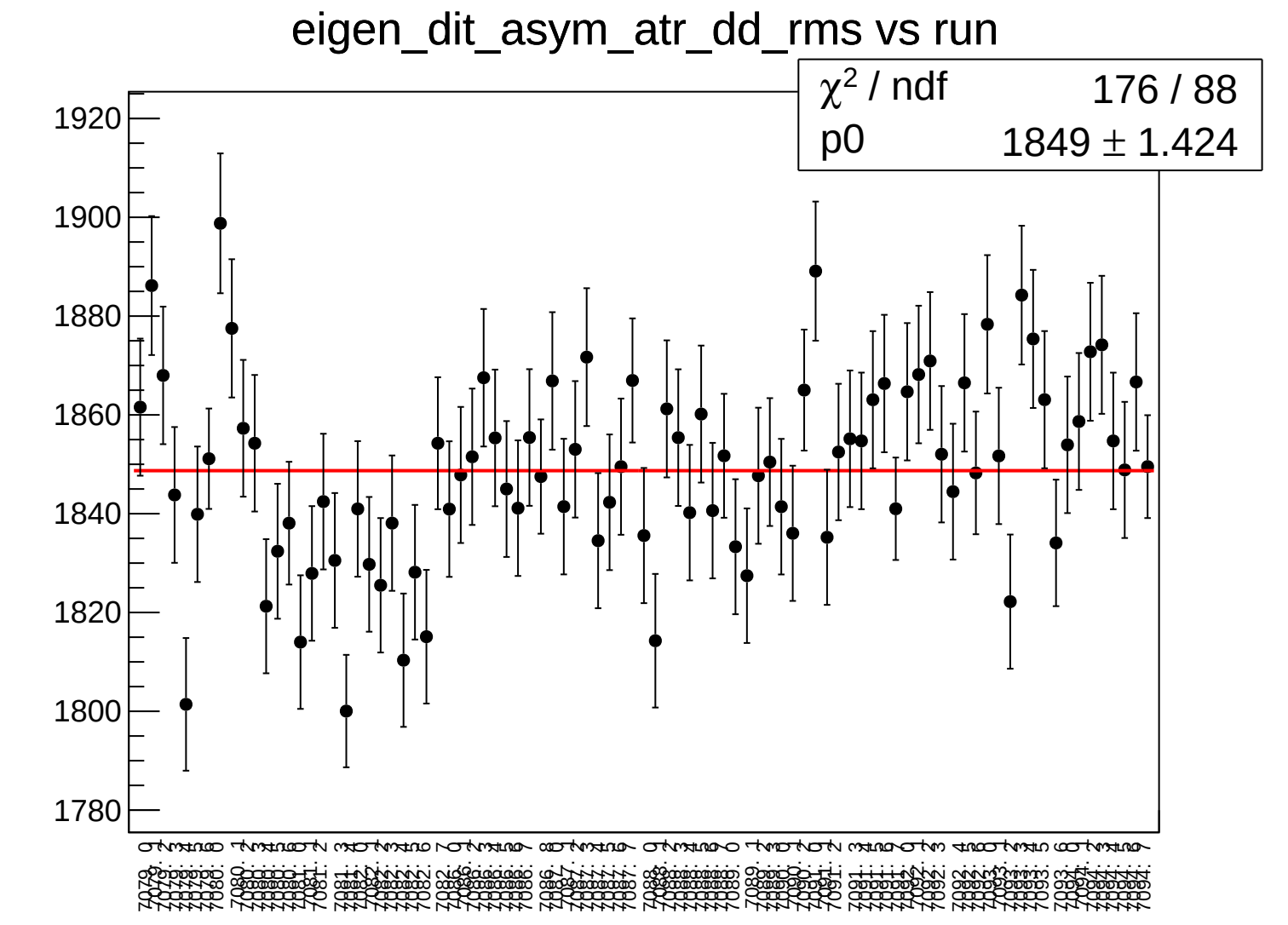

pull1D
Entries 89
Mean −0.005149
Std Dev 0.8845
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

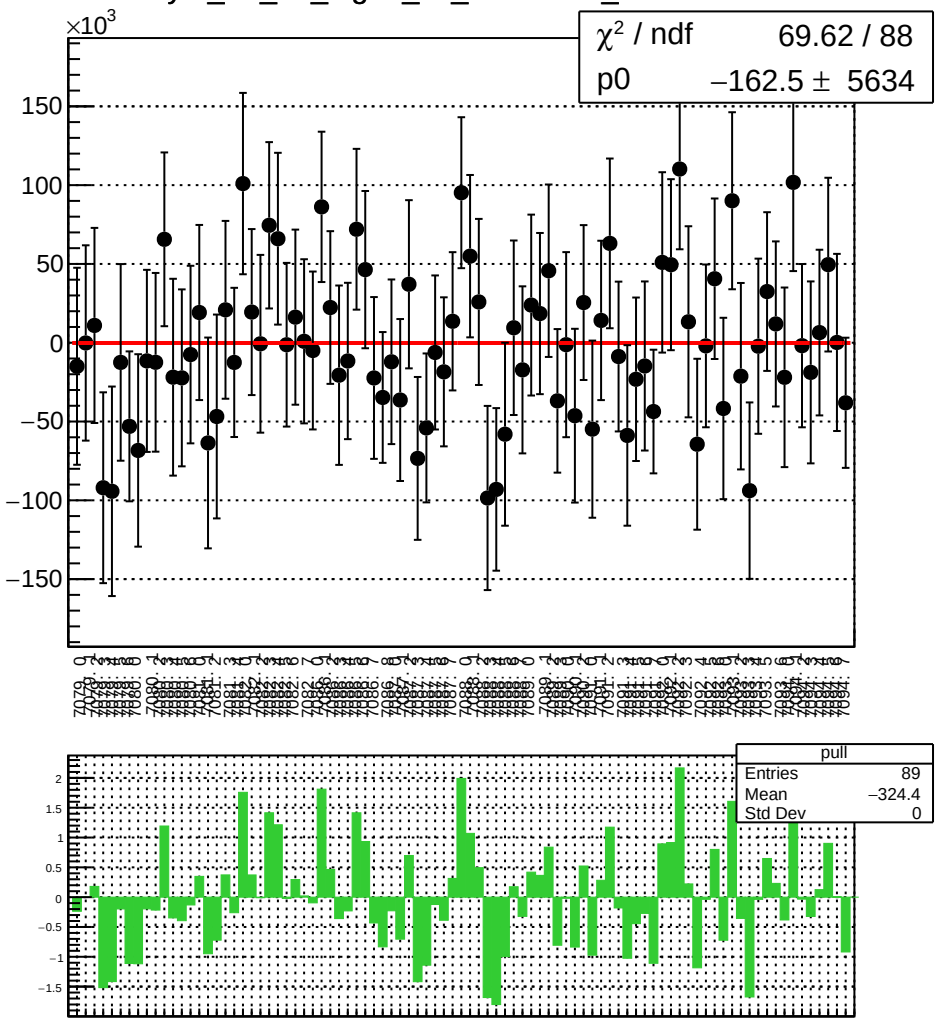
asym_atr_dd_dit_correction_rms vs run

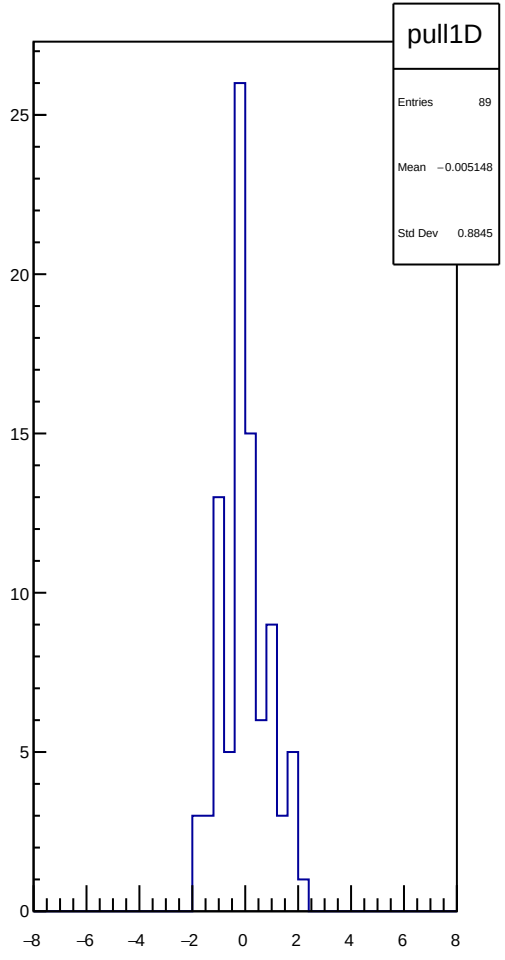


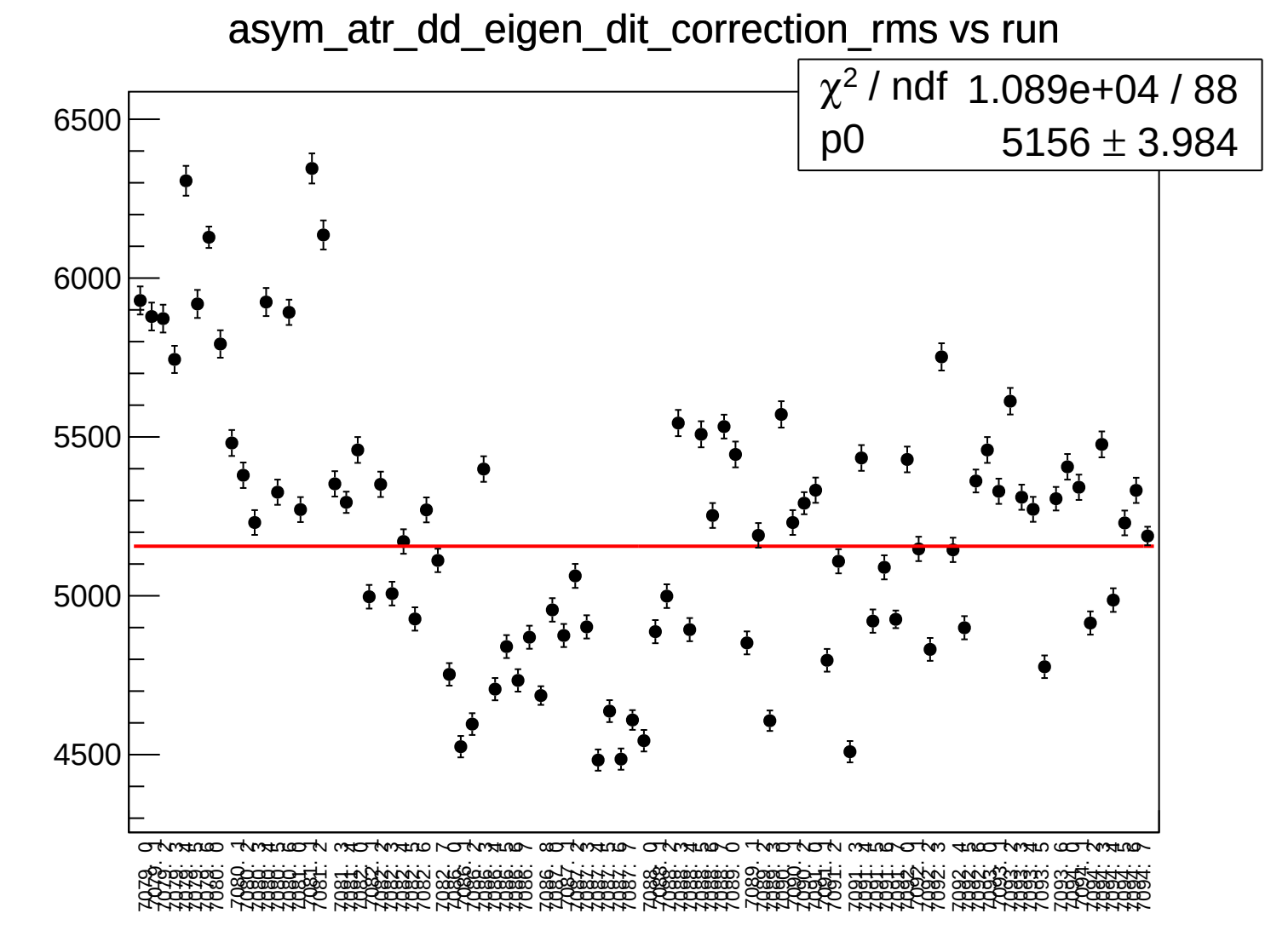

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 78.67 / 88
p0 2201 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −435.5
Std Dev 0
2
1
0
−1
−2

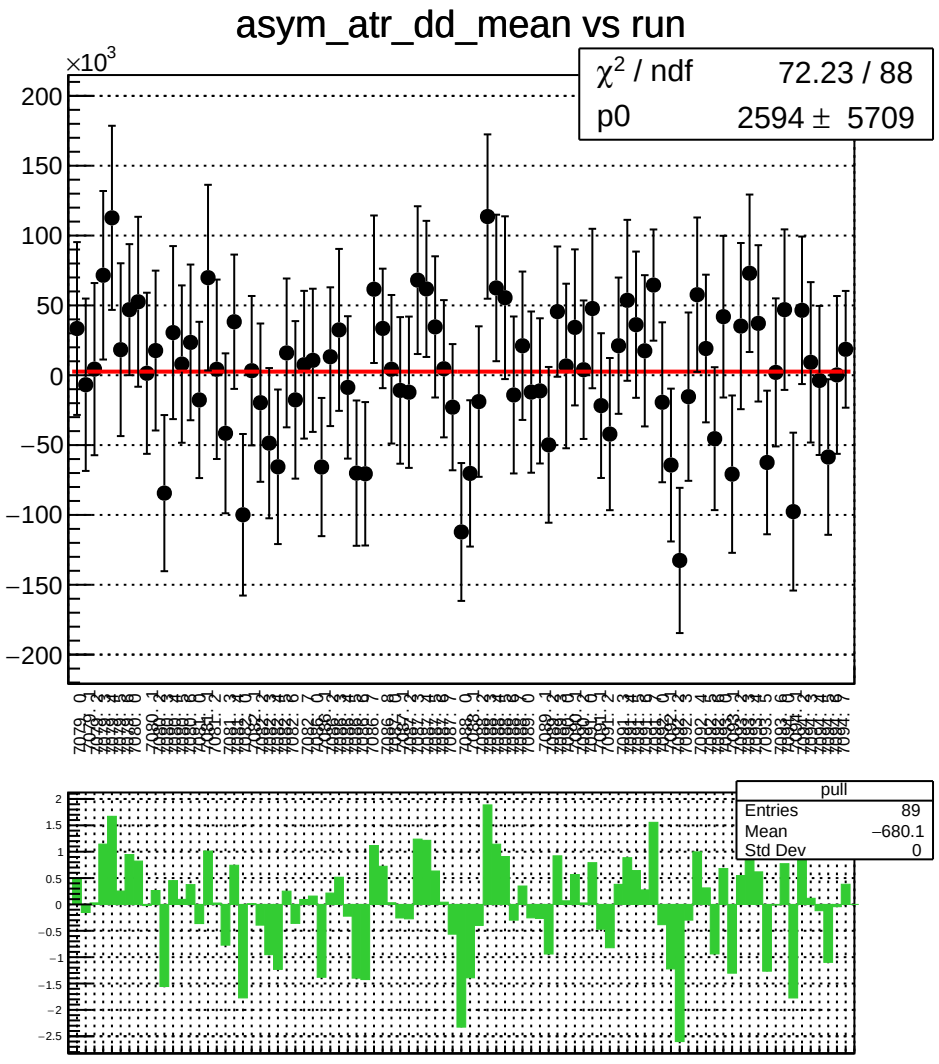

pull1D
Entries 89
Mean −0.002987
Std Dev 0.9402
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

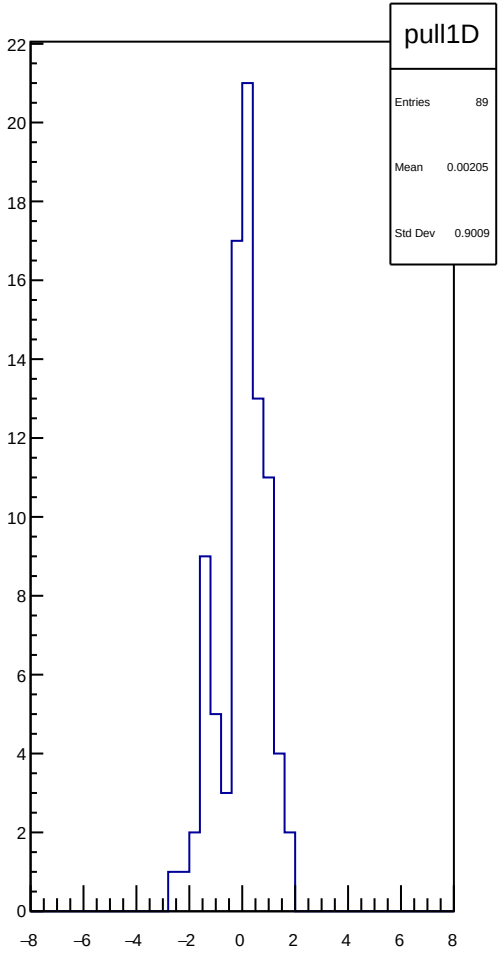

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 176 / 88
p0 1849 ± 1.424
1920
1900
1880
1860
1840
1820
1800
1780

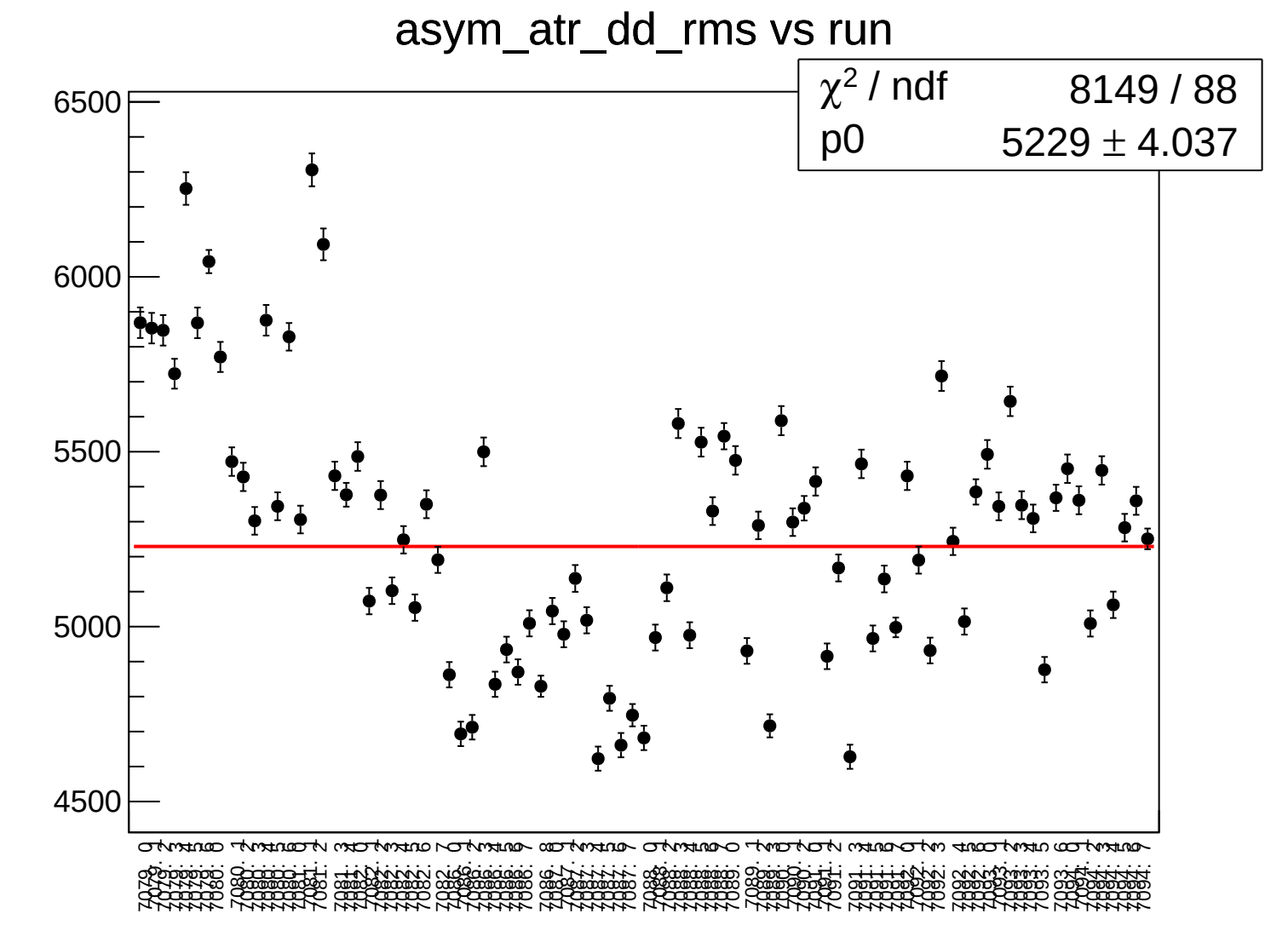

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.62 / 88
p0 −162.5 ± 5634
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −324.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

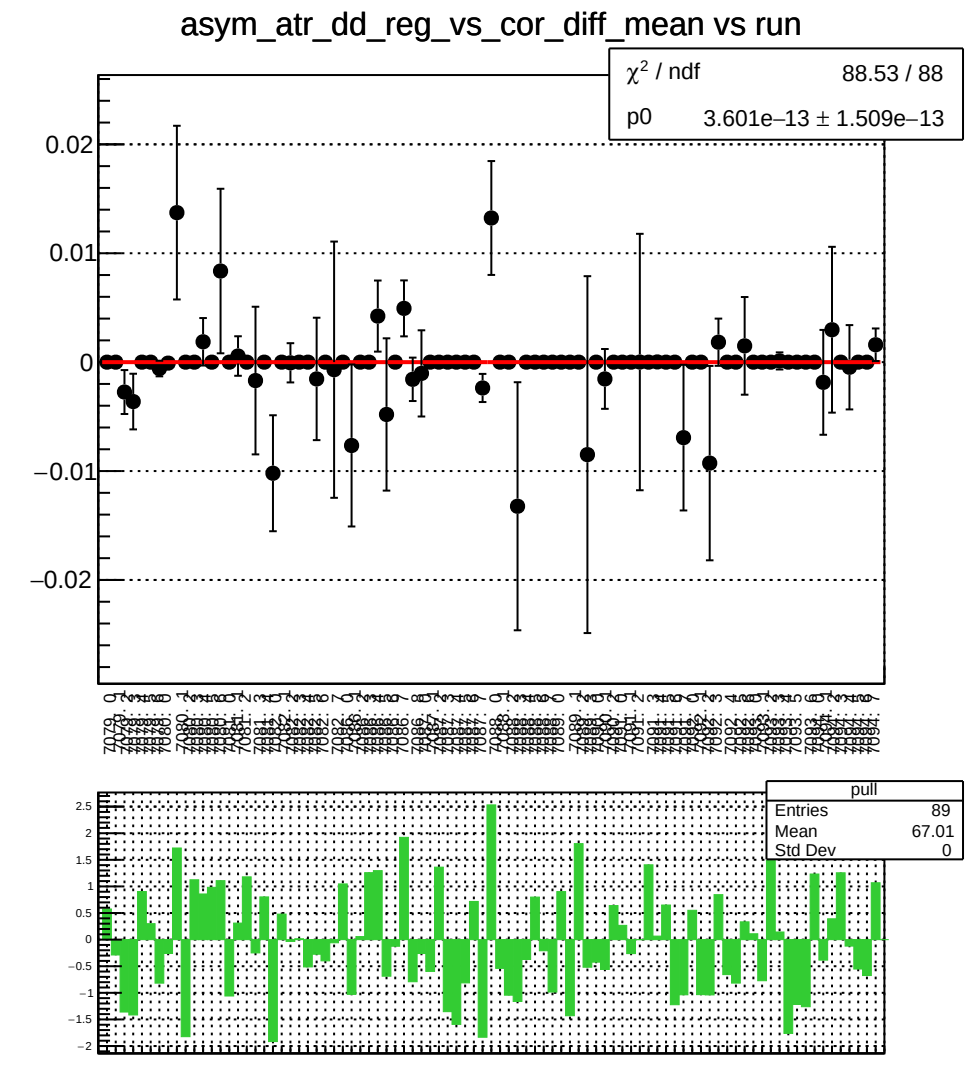

pull1D
Entries 89
Mean −0.005148
Std Dev 0.8845
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

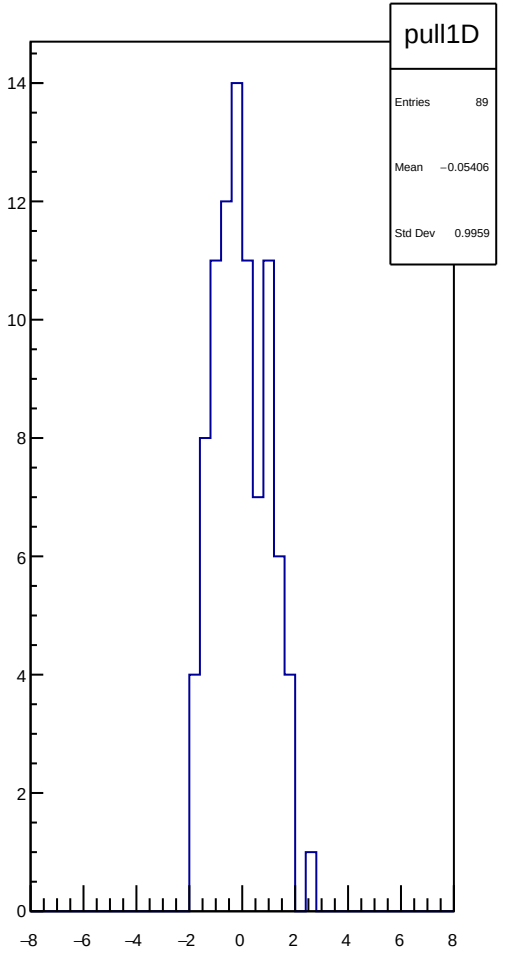

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.089e+04 / 88
p0 5156 ± 3.984
6500
6000
5500
5000
4500

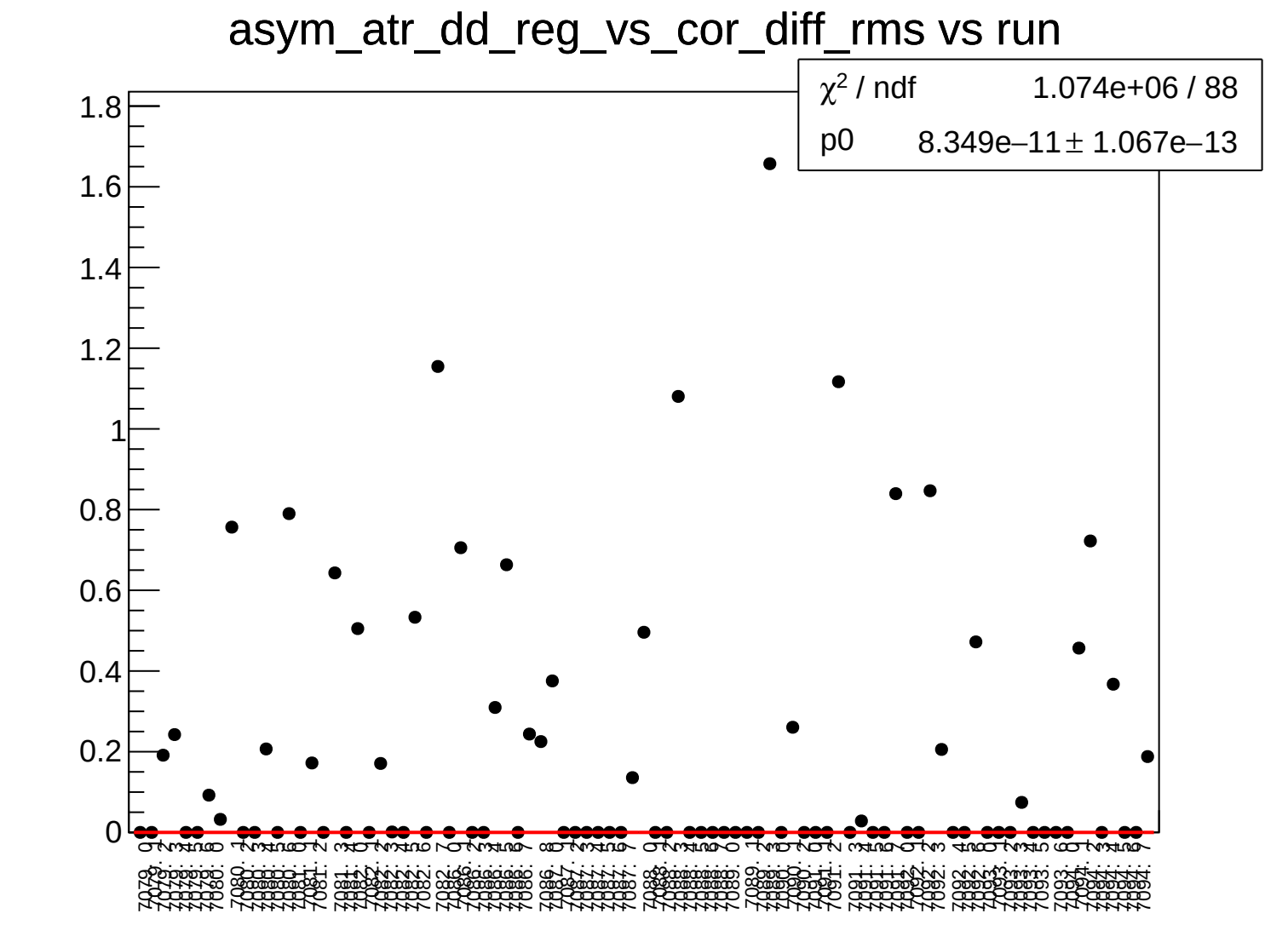

asym_atr_dd_mean vs run
×10^3
χ² / ndf 72.23 / 88
p0 2594 ± 5709
pull
Entries 89
Mean −680.1
Std Dev 0

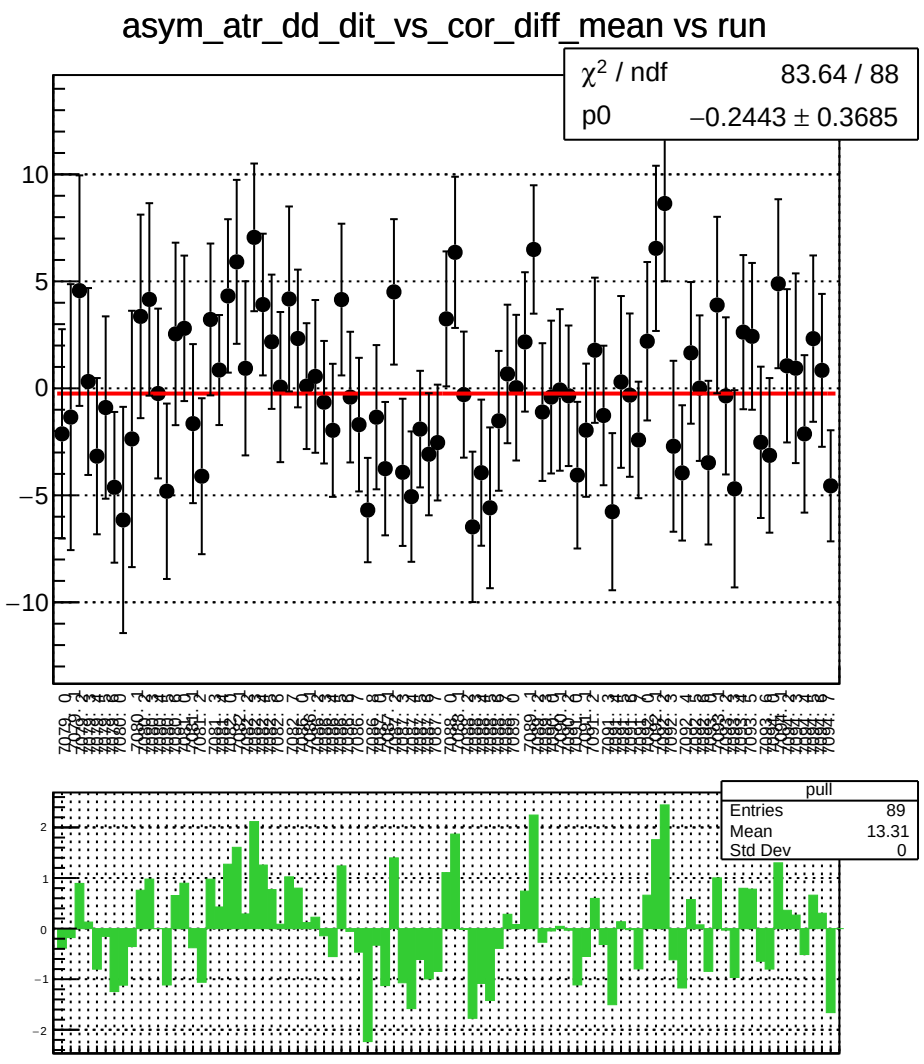

pull1D
Entries 89
Mean 0.00205
Std Dev 0.9009

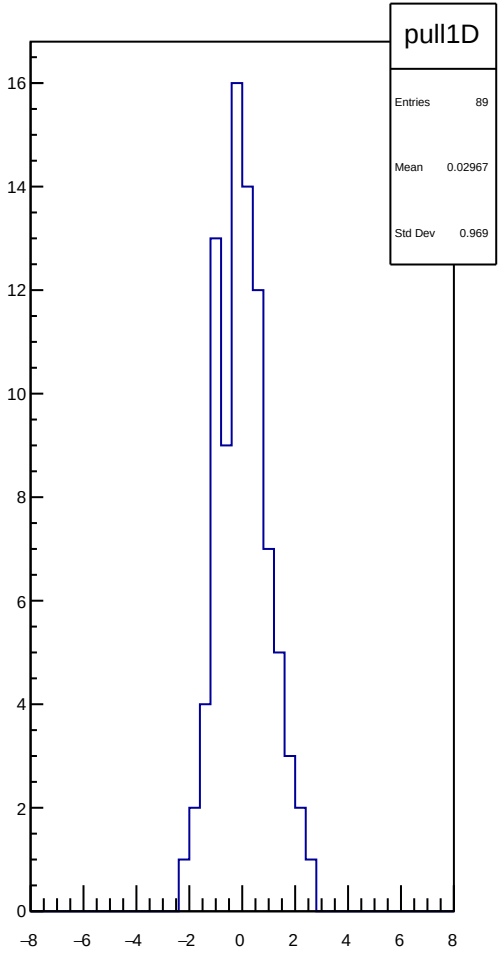

asym_atr_dd_rms vs run
χ² / ndf 8149 / 88
p0 5229 ± 4.037
6500
6000
5500
5000
4500

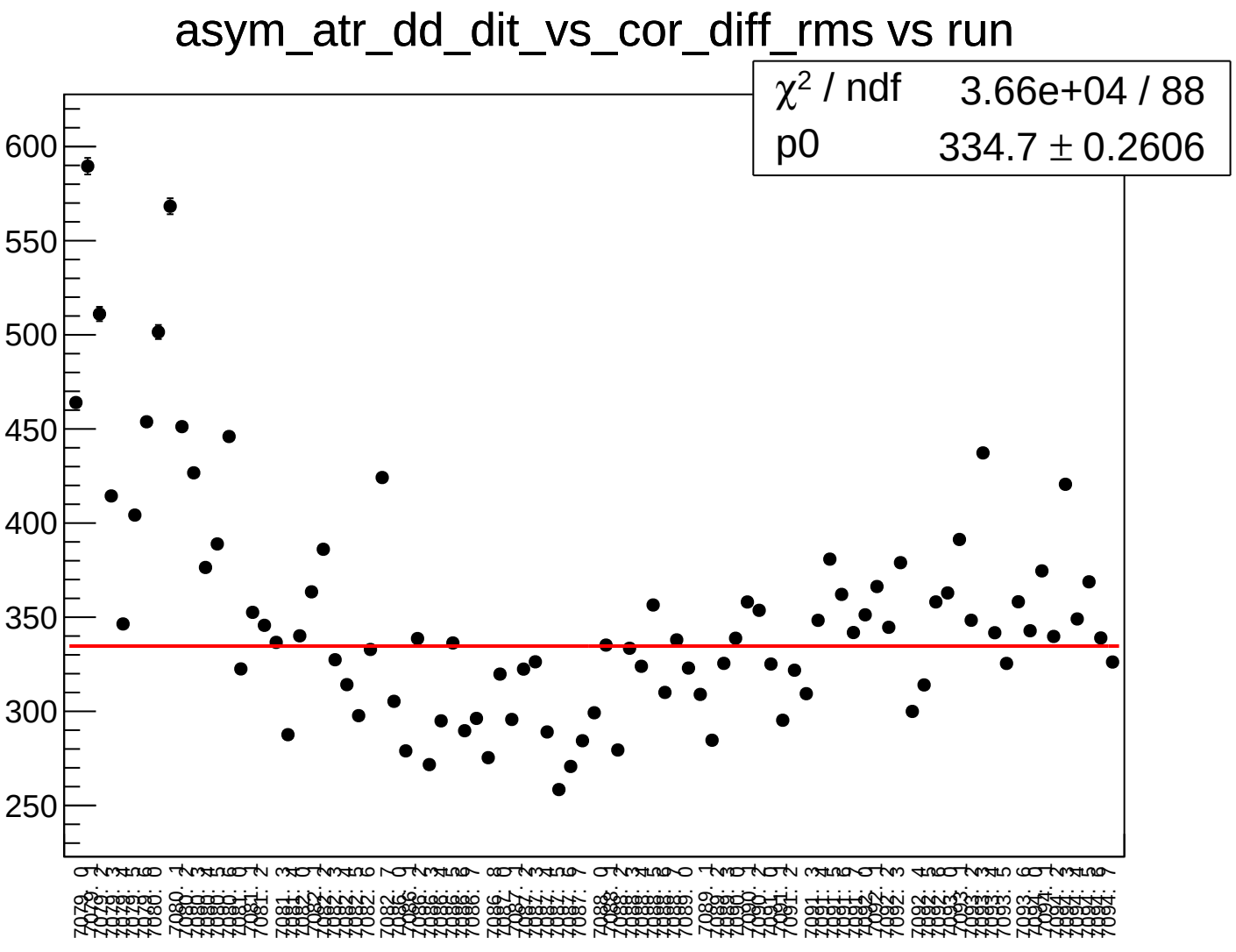

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.53 / 88
p0 3.601e−13 ± 1.509e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 67.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

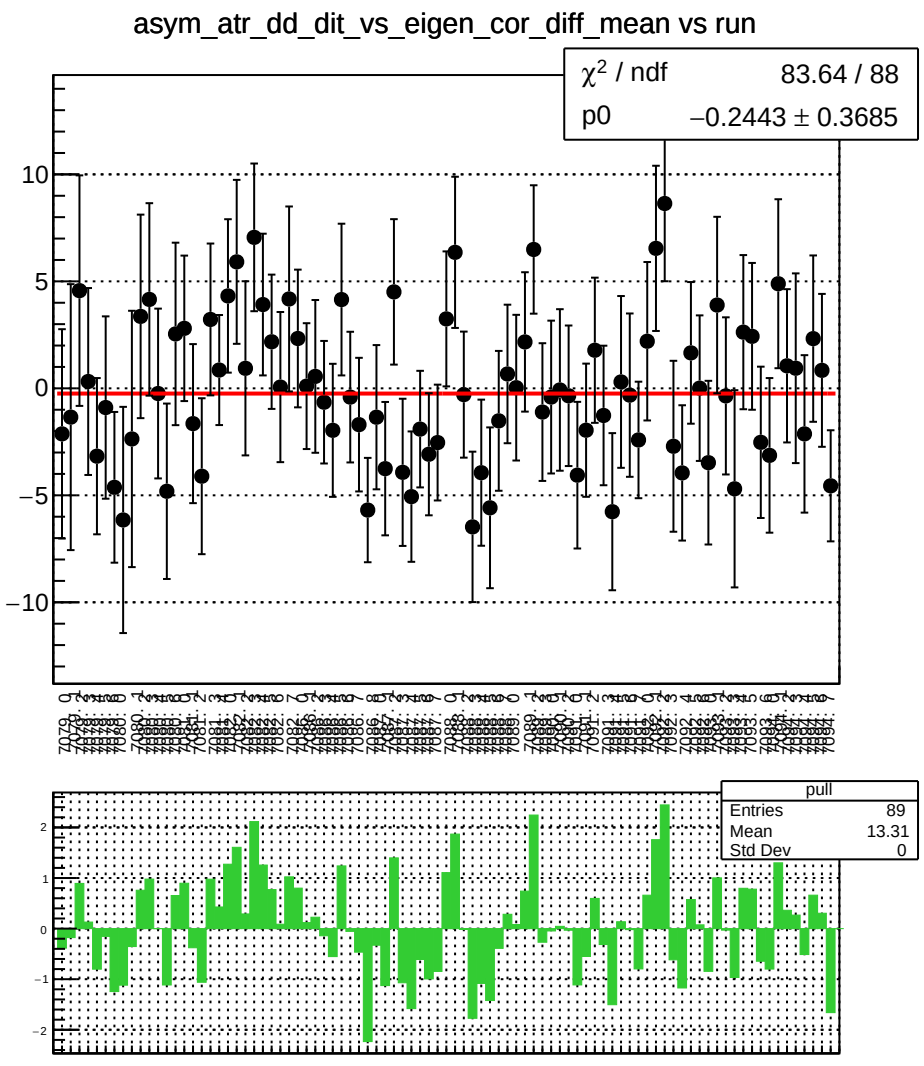

pull1D
Entries 89
Mean −0.05406
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

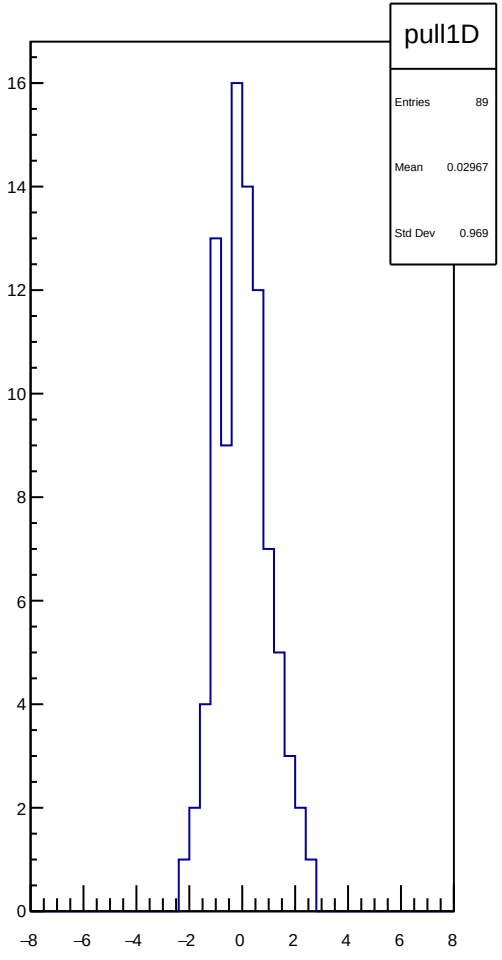

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.074e+06 / 88
p0 8.349e−11 ± 1.067e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

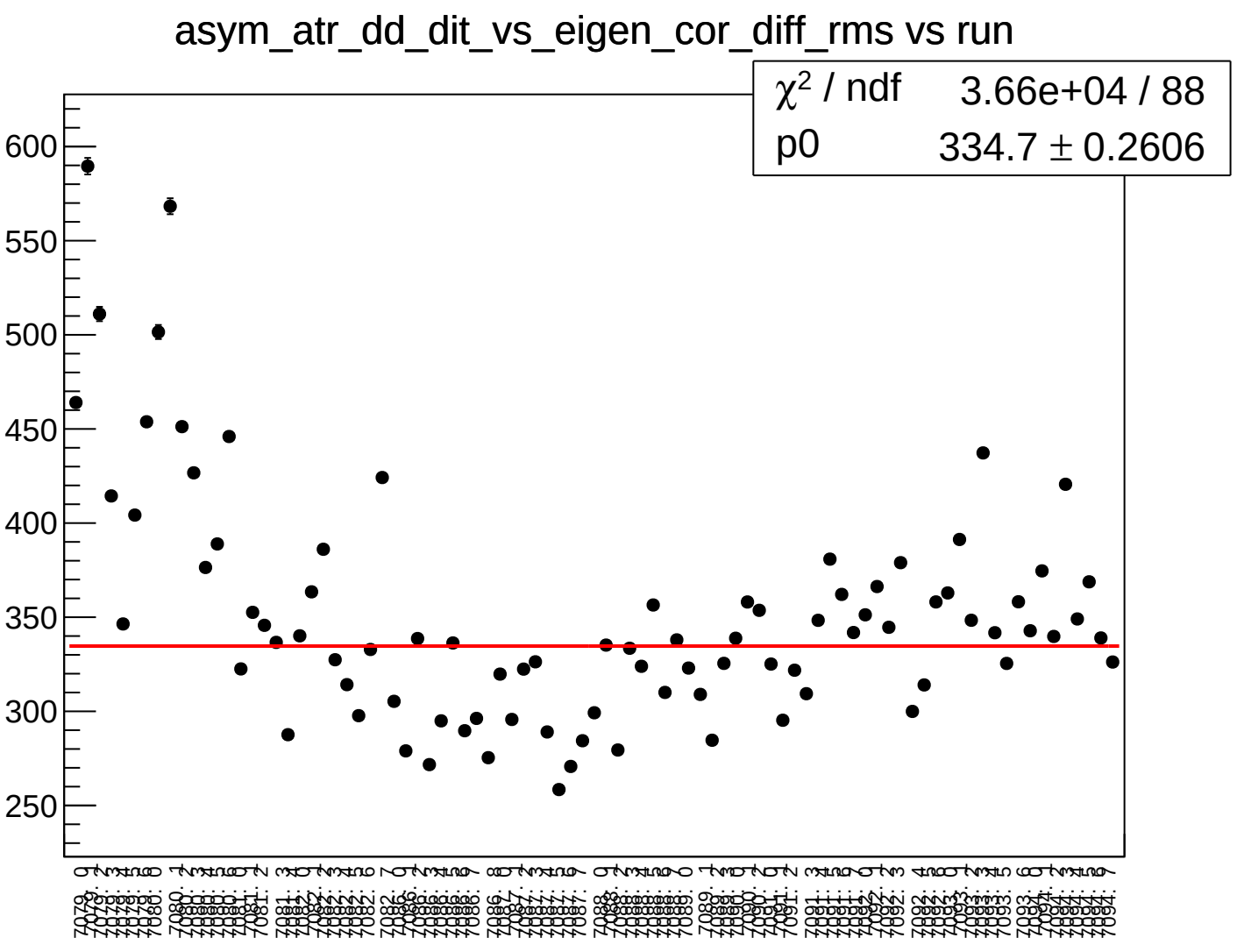

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.64 / 88
p0 −0.2443 ± 0.3685
pull
Entries 89
Mean 13.31
Std Dev 0

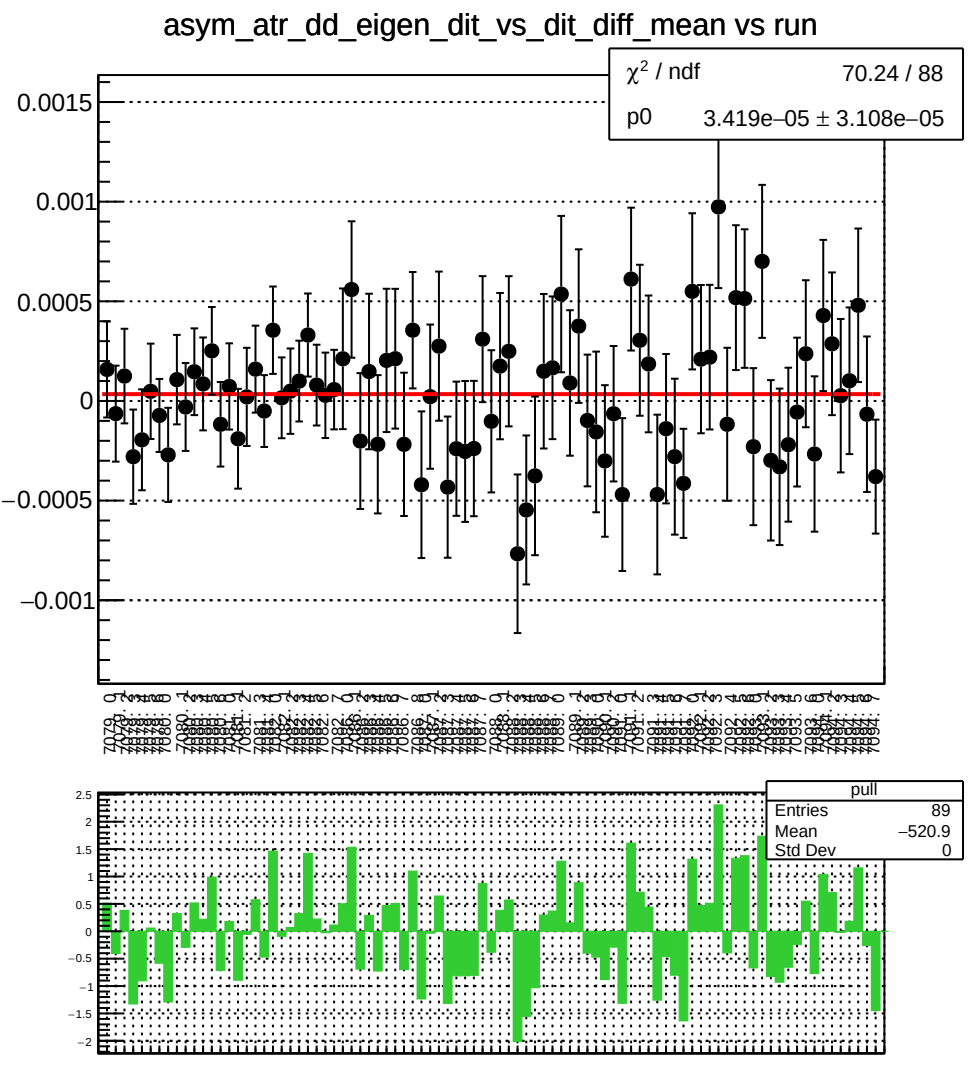

pull1D
Entries 89
Mean 0.02967
Std Dev 0.969

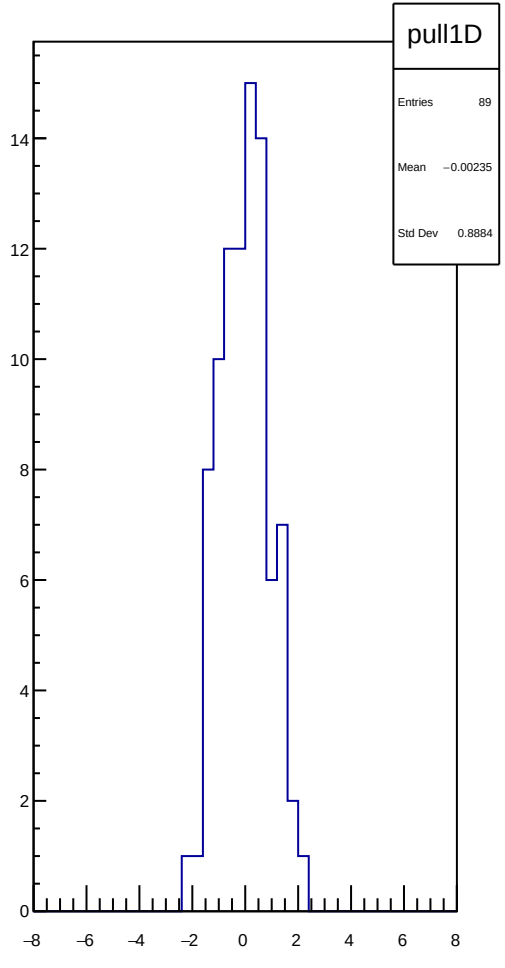

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.66e+04 / 88
p0 334.7 ± 0.2606
600
550
500
450
400
350
300
250

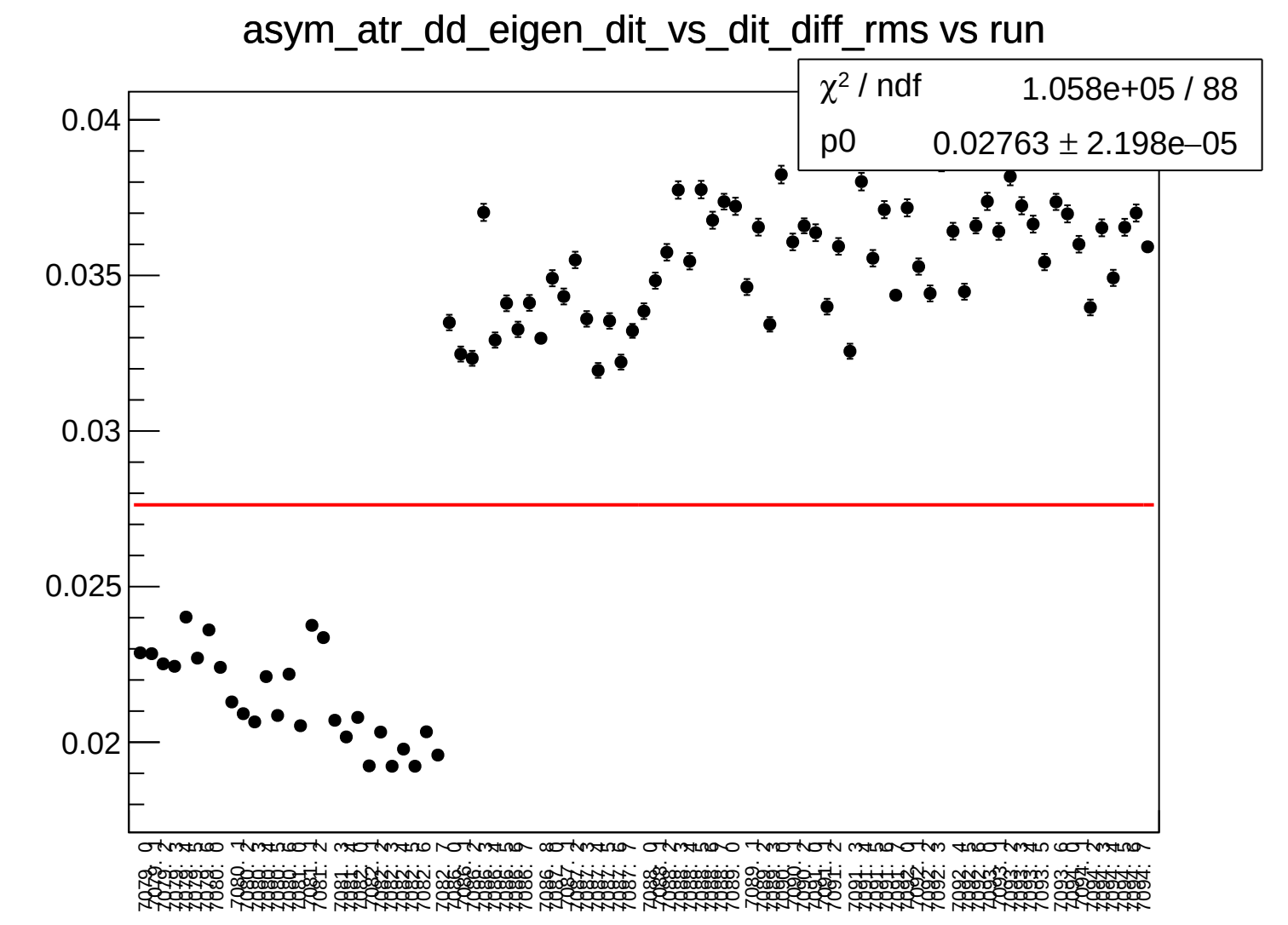

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.64 / 88
p0 −0.2443 ± 0.3685
pull
Entries 89
Mean 13.31
Std Dev 0

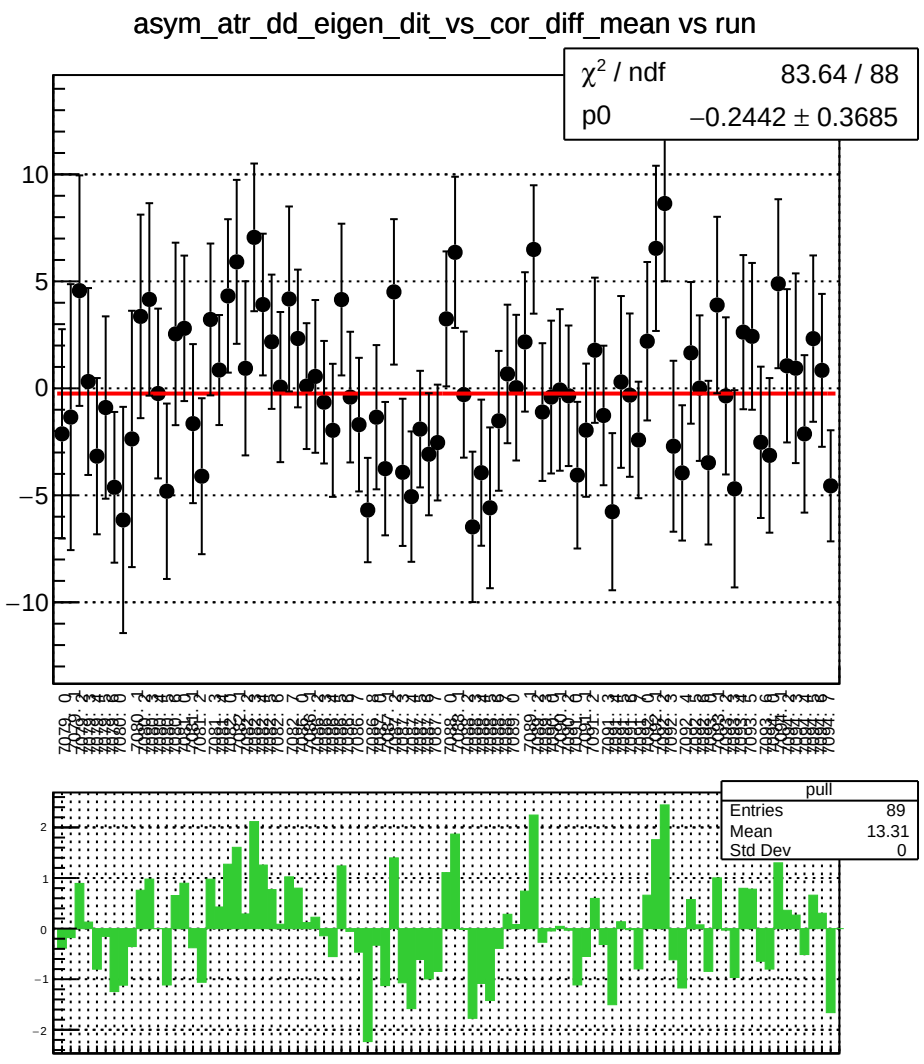

pull1D
Entries 89
Mean 0.02967
Std Dev 0.969

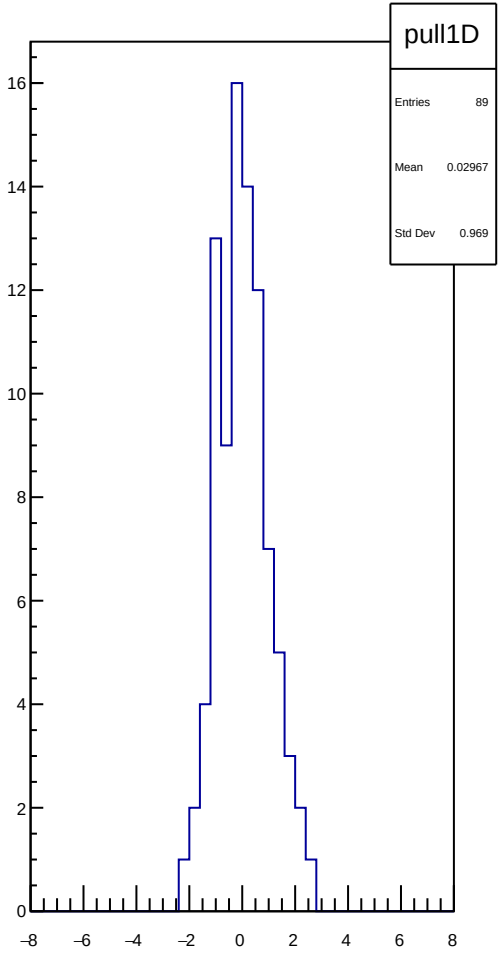

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.66e+04 / 88
p0 334.7 ± 0.2606
600
550
500
450
400
350
300
250

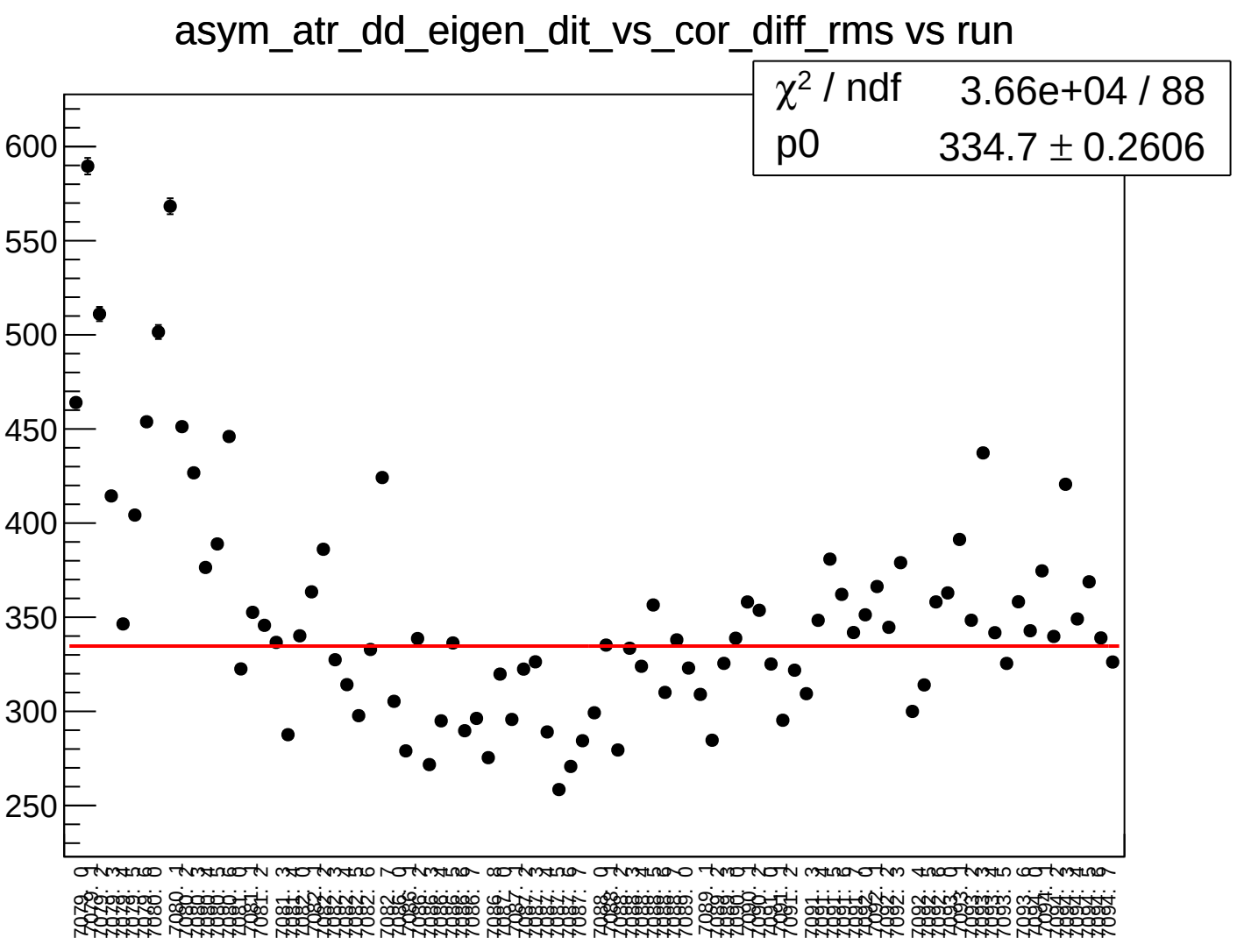

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.24 / 88
p0 3.419e−05 ± 3.108e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −520.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

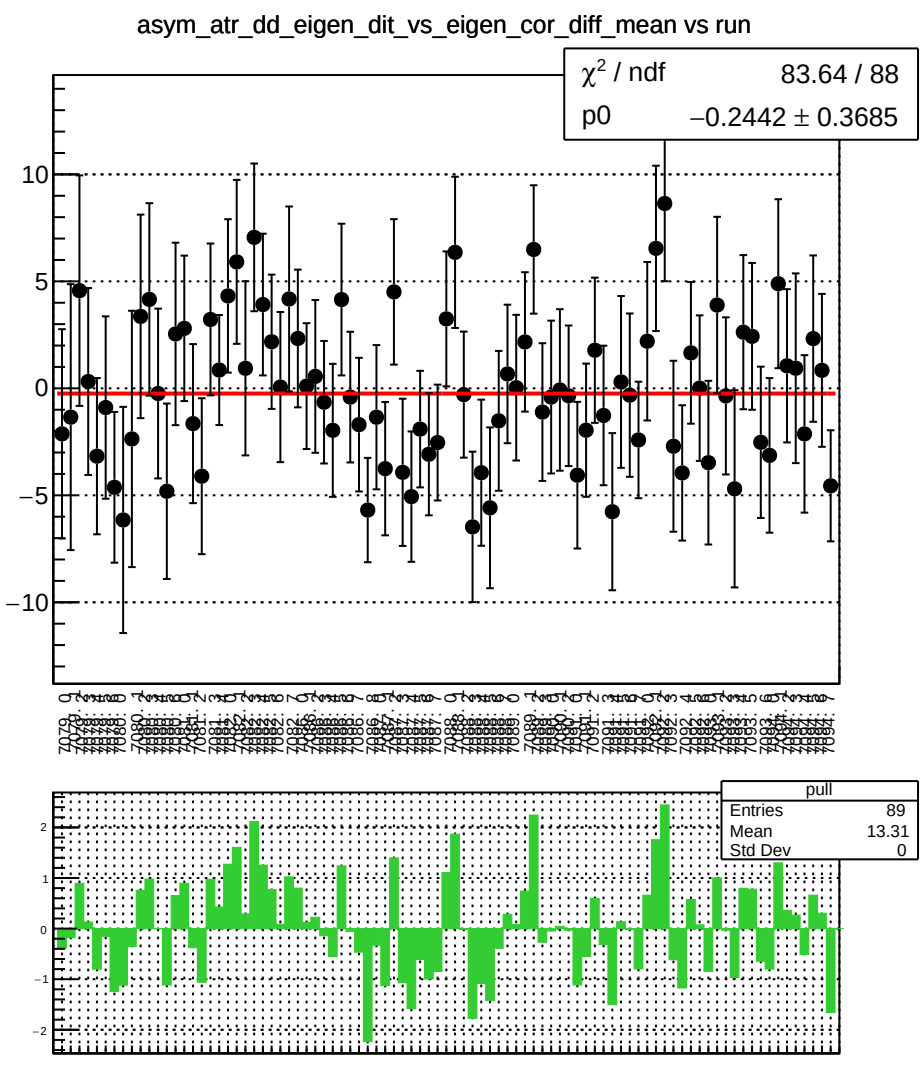

pull1D
Entries 89
Mean −0.00235
Std Dev 0.8884
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

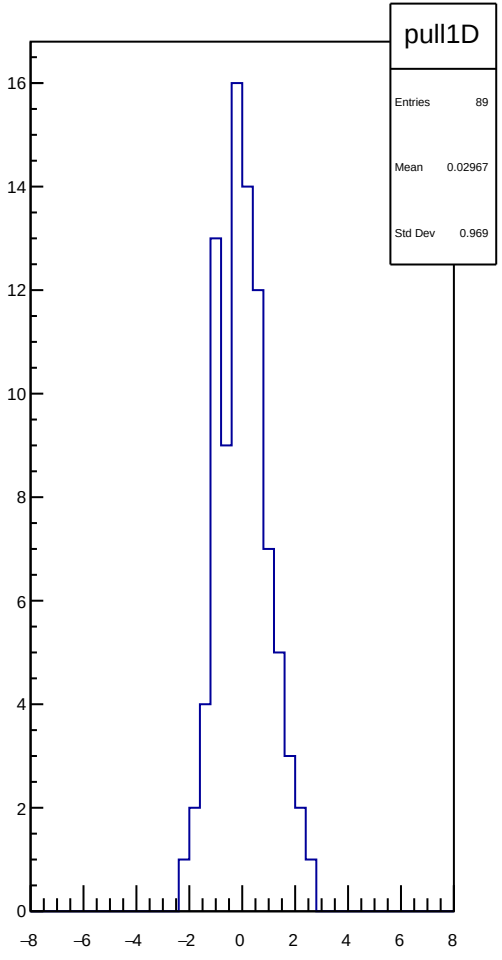

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.058e+05 / 88
p0 0.02763 ± 2.198e−05
0.04
0.035
0.03
0.025
0.02

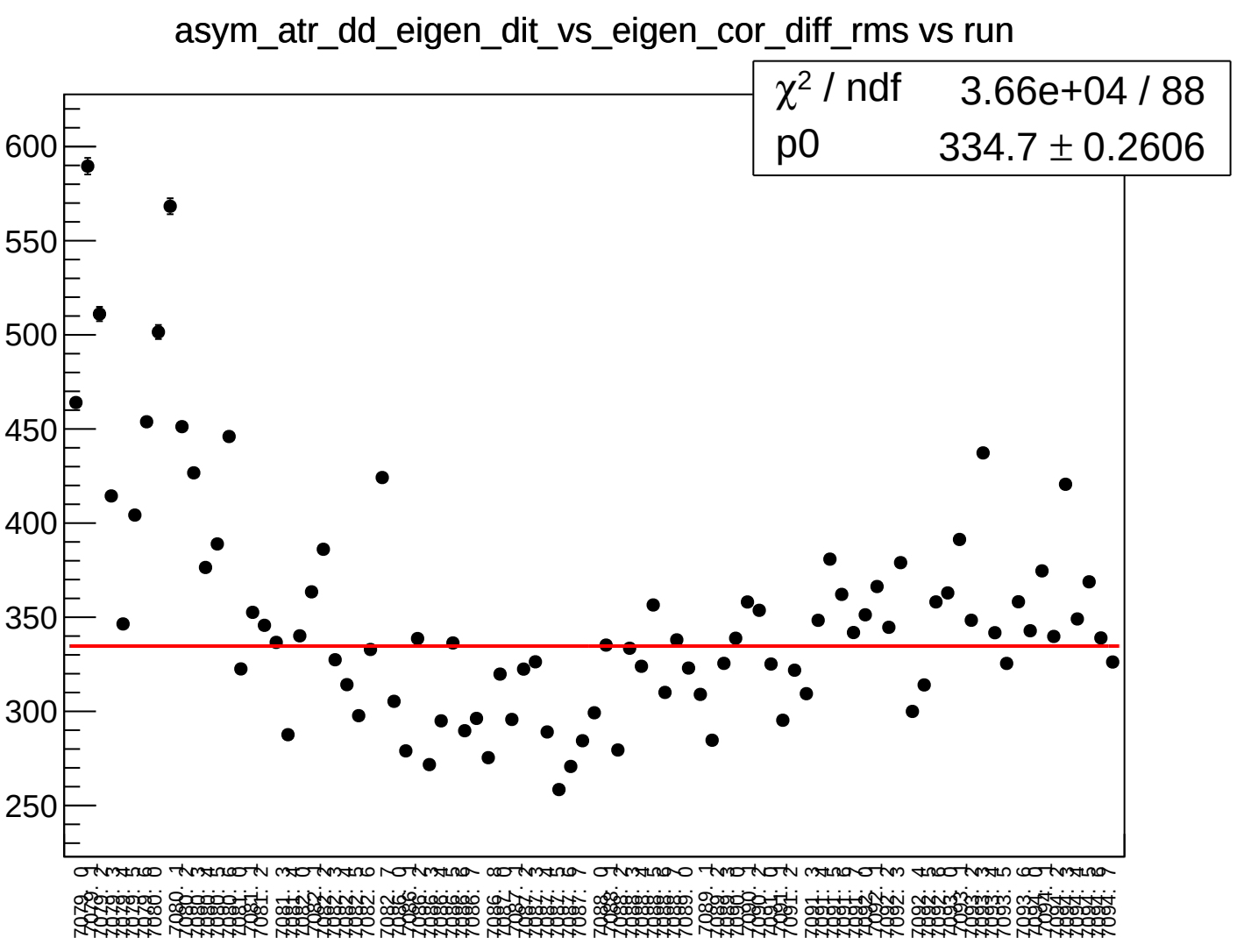

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.64 / 88
p0 −0.2442 ± 0.3685
pull
Entries 89
Mean 13.31
Std Dev 0

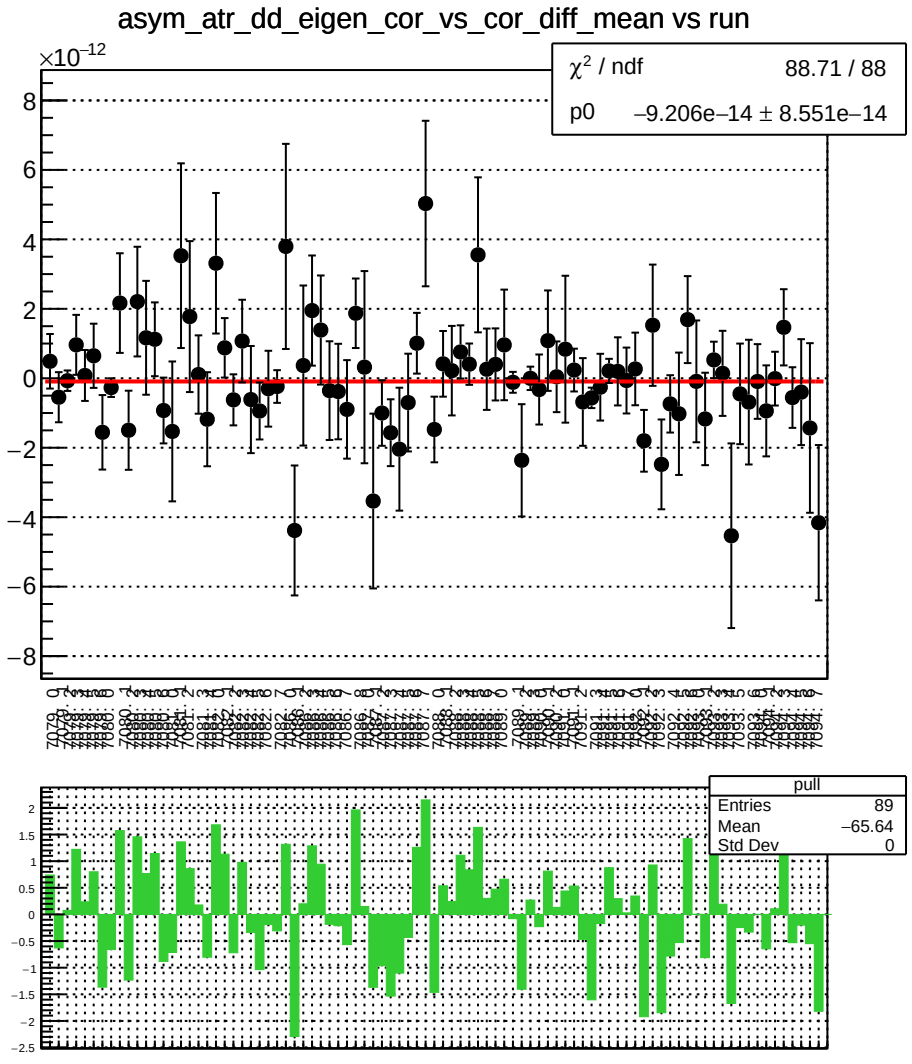

pull1D
Entries 89
Mean 0.02967
Std Dev 0.969

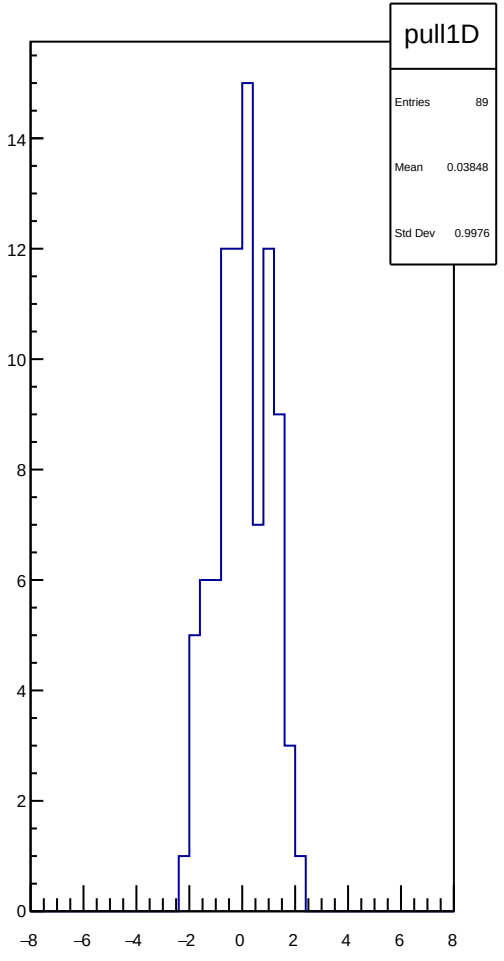

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.66e+04 / 88
p0 334.7 ± 0.2606
600
550
500
450
400
350
300
250

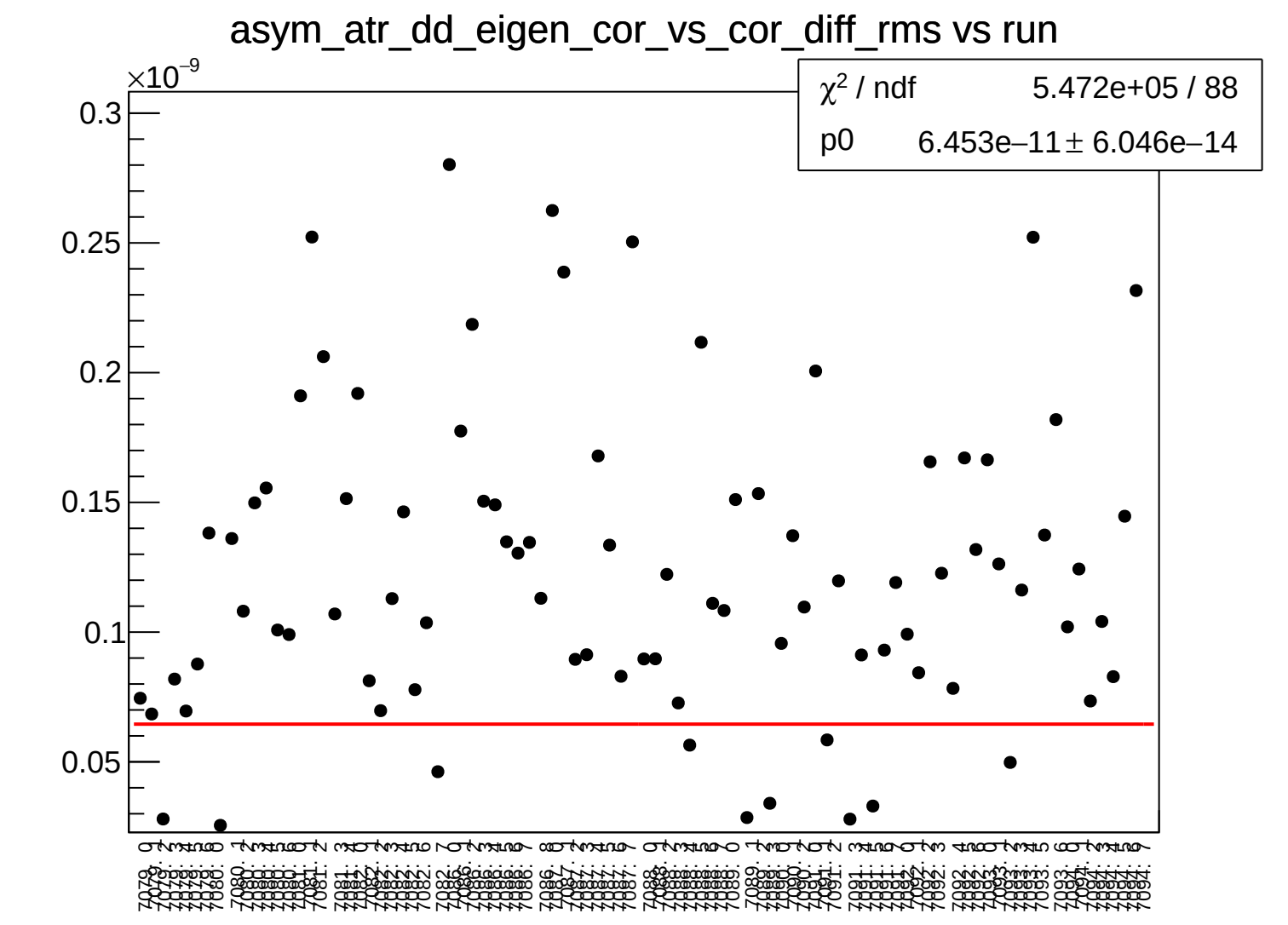

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.64 / 88
p0 −0.2442 ± 0.3685
pull
Entries 89
Mean 13.31
Std Dev 0

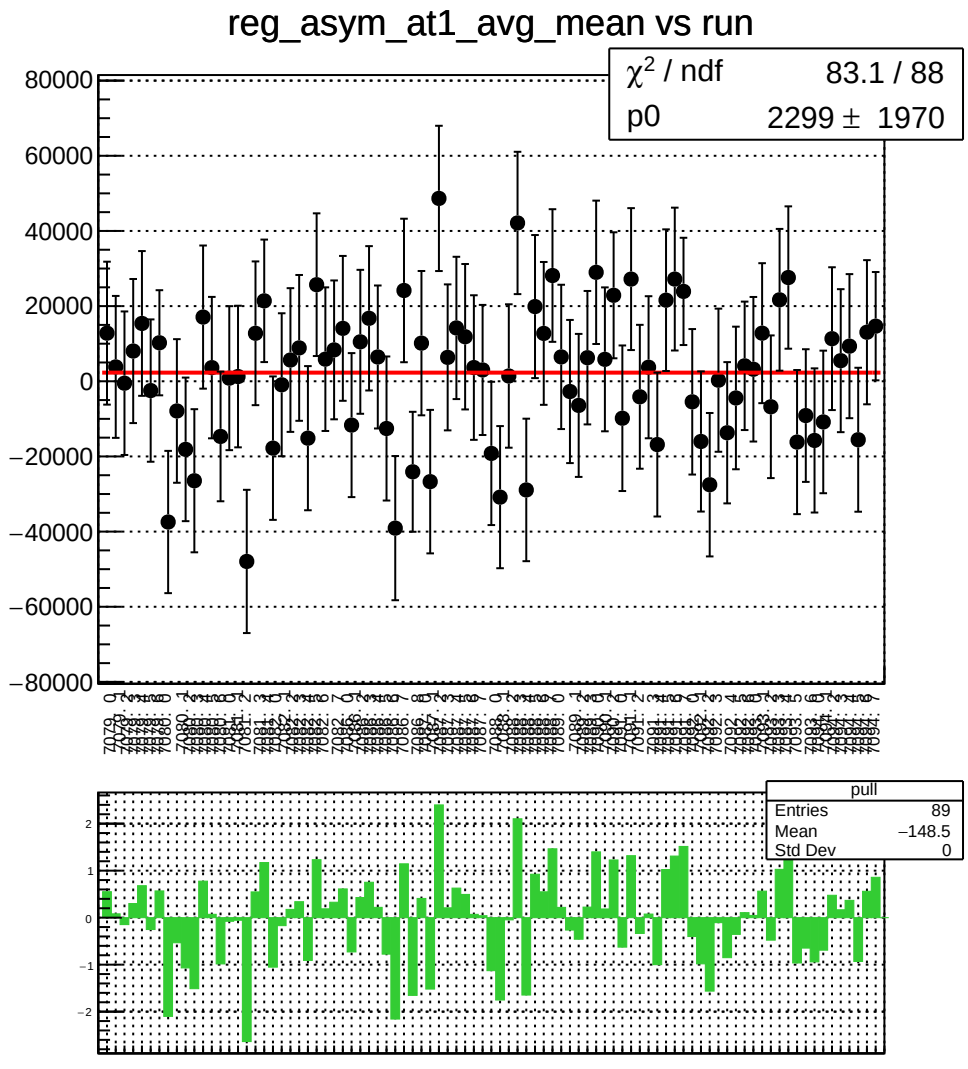

pull1D
Entries 89
Mean 0.02967
Std Dev 0.969

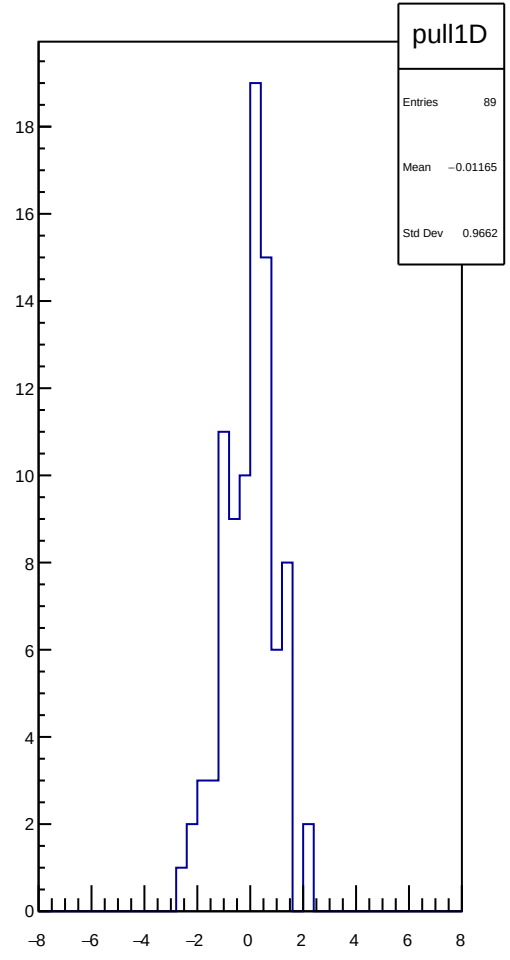

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.66e+04 / 88
p0 334.7 ± 0.2606
600
550
500
450
400
350
300
250

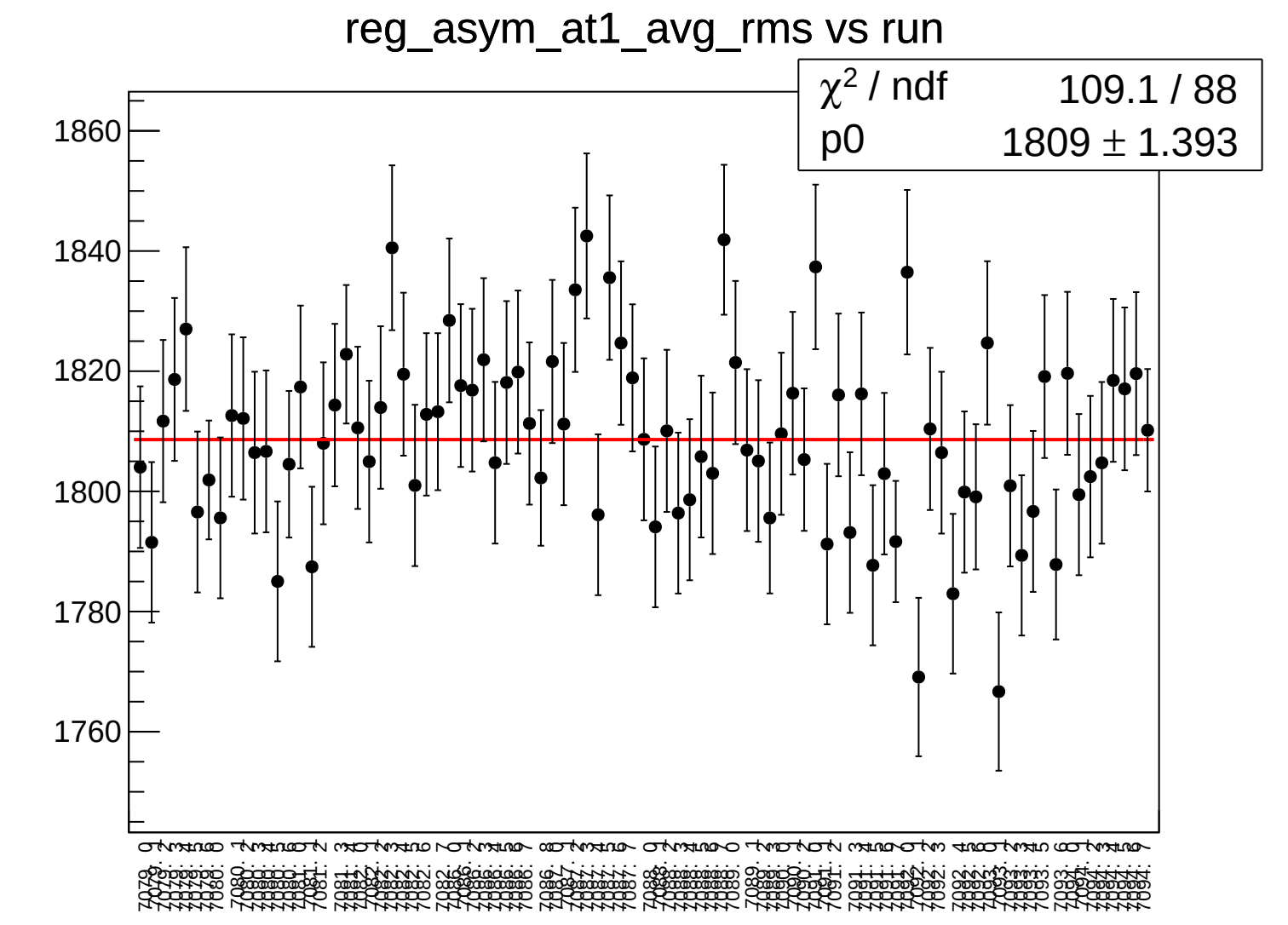

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.71 / 88
p0 −9.206e−14 ± 8.551e−14
pull
Entries 89
Mean −65.64
Std Dev 0

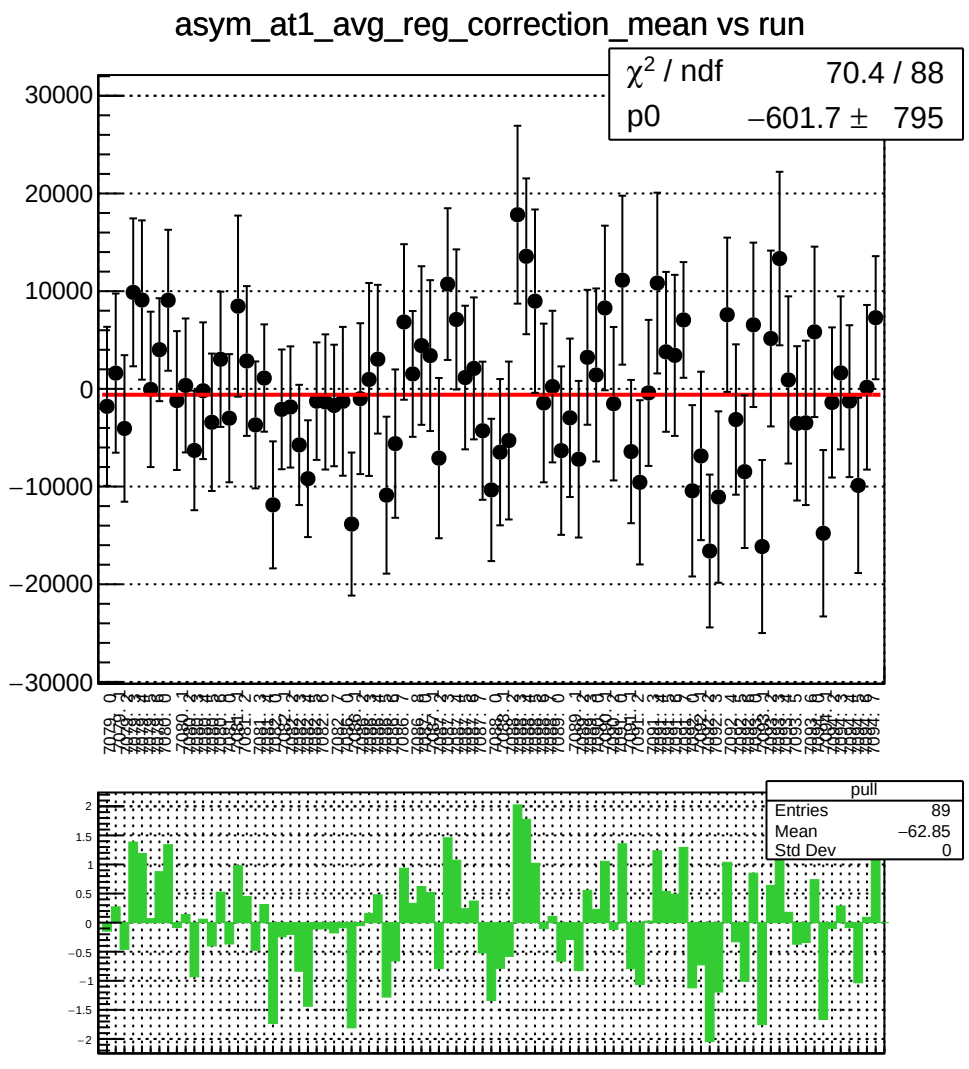

pull1D
Entries 89
Mean 0.03848
Std Dev 0.9976

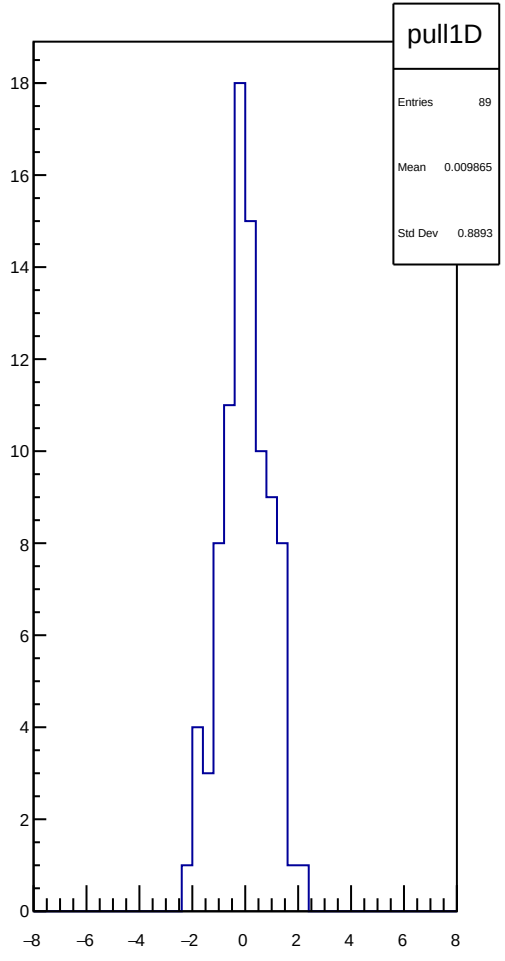

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.472e+05 / 88
p0 6.453e−11 ± 6.046e−14
0.3
0.25
0.2
0.15
0.1
0.05

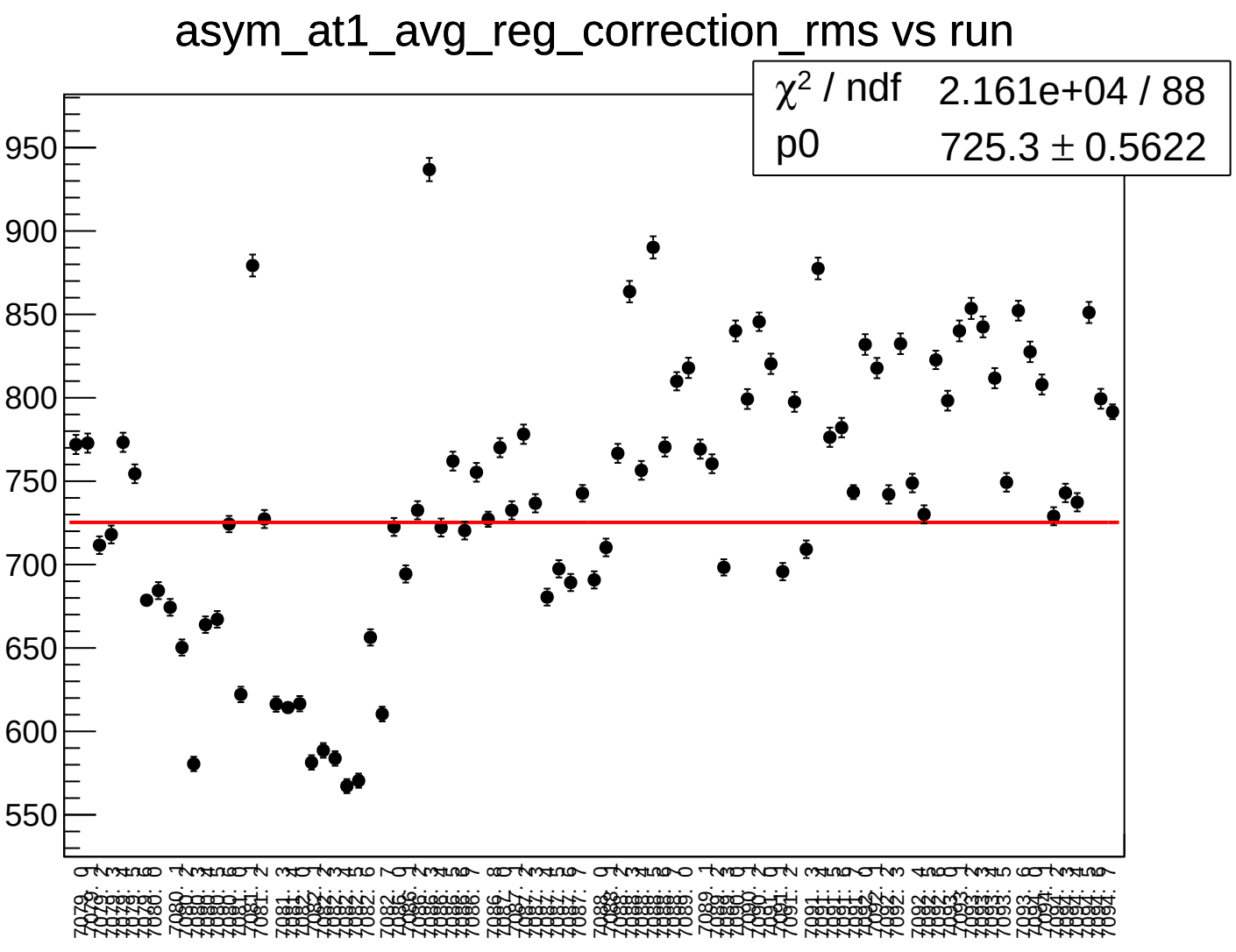

reg_asym_at1_avg_mean vs run
χ² / ndf 83.1 / 88
p0 2299 ± 1970
pull
Entries 89
Mean −148.5
Std Dev 0

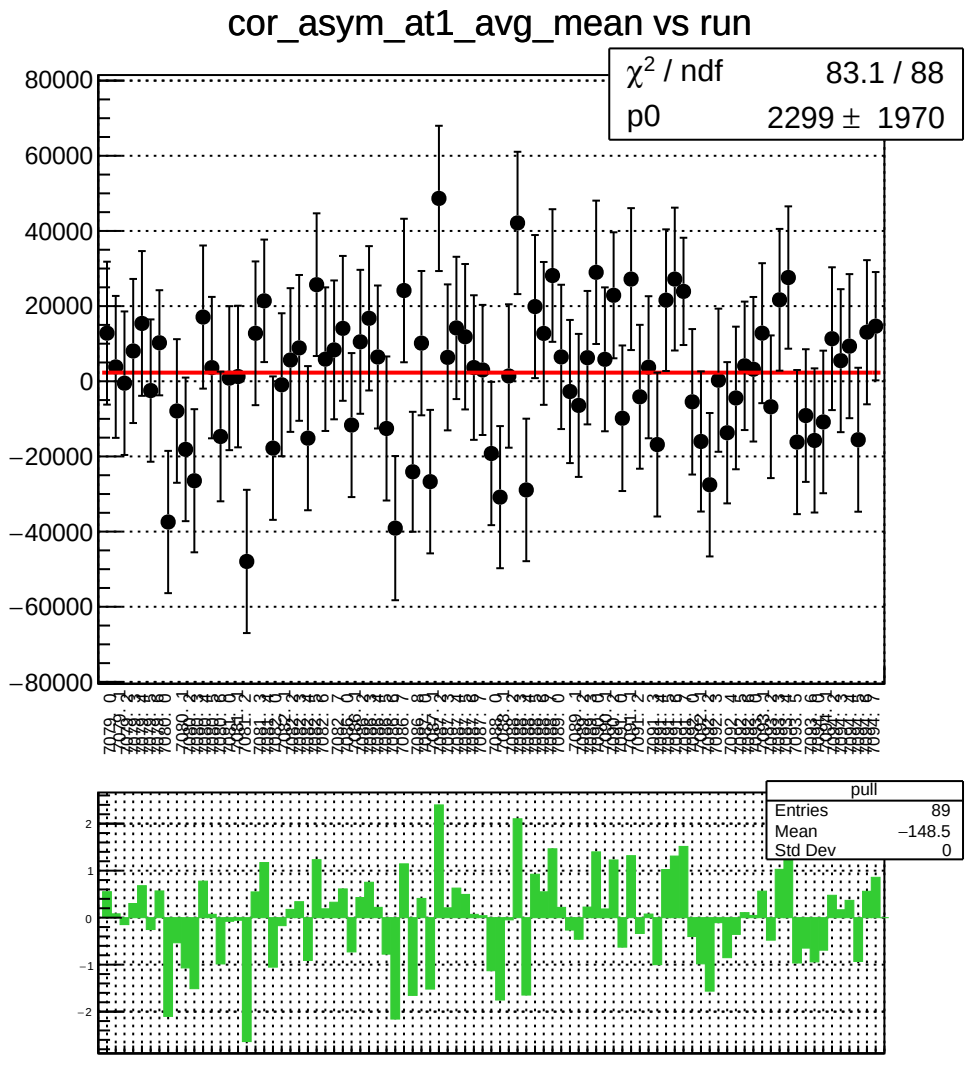

pull1D
Entries 89
Mean −0.01165
Std Dev 0.9662

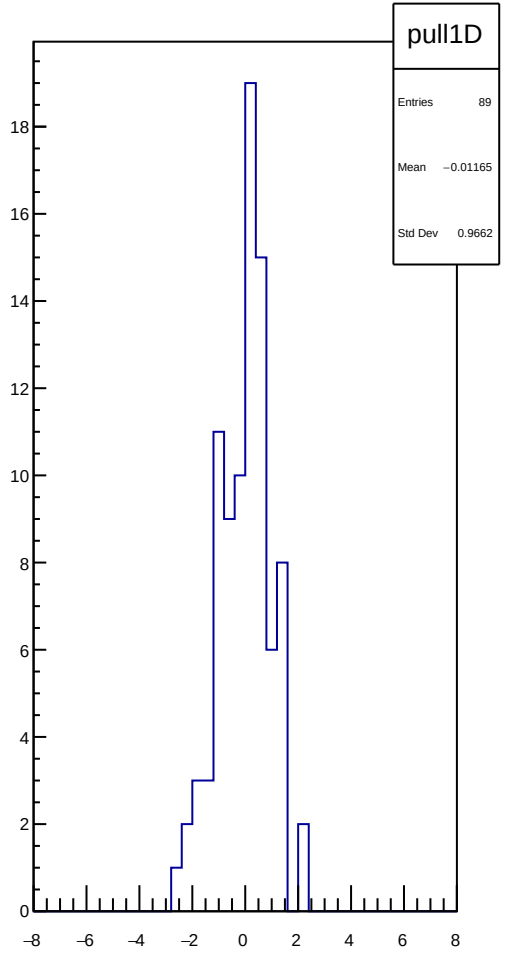

reg_asym_at1_avg_rms vs run
χ² / ndf 109.1 / 88
p0 1809 ± 1.393
1860
1840
1820
1800
1780
1760

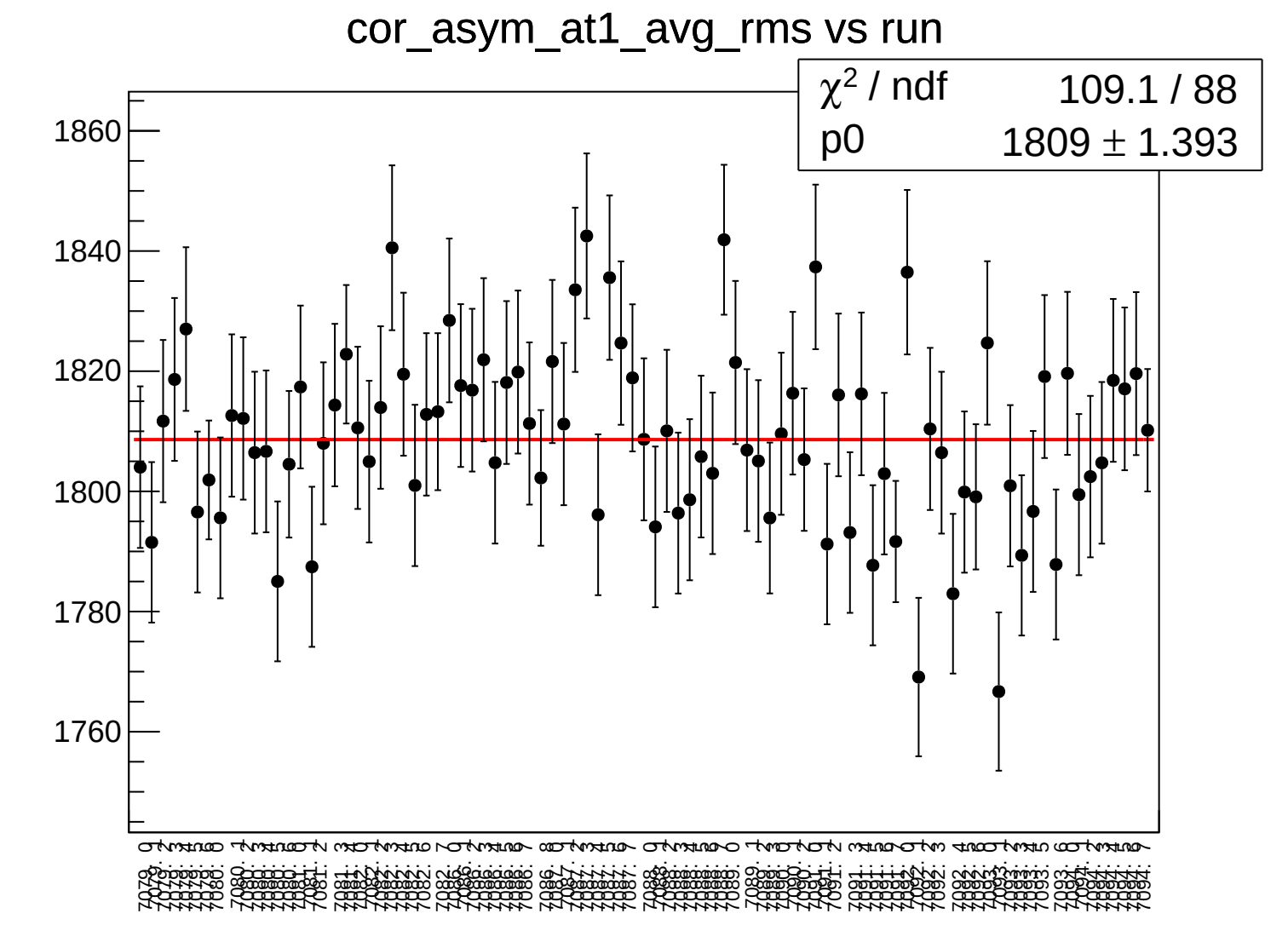

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 70.4 / 88
p0 −601.7 ± 795
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −62.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

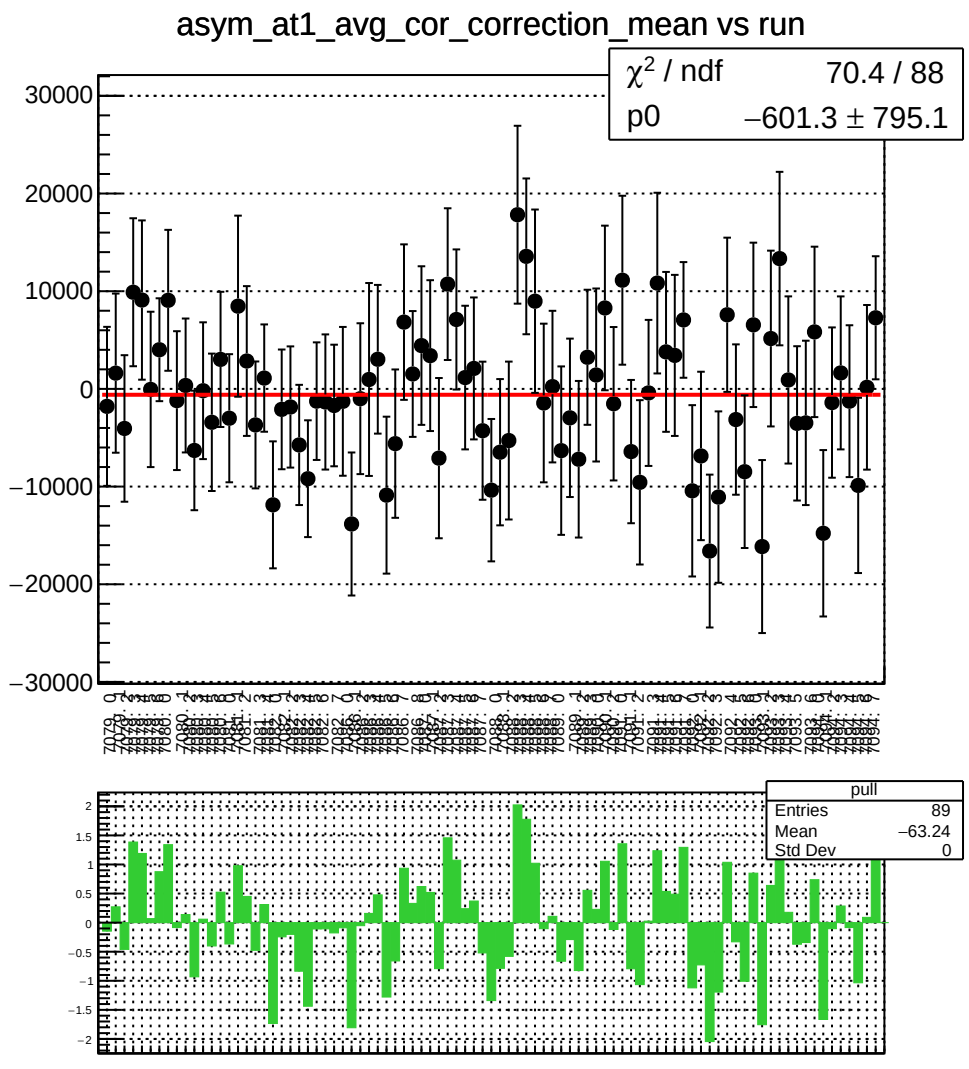

pull1D
Entries 89
Mean 0.009865
Std Dev 0.8893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

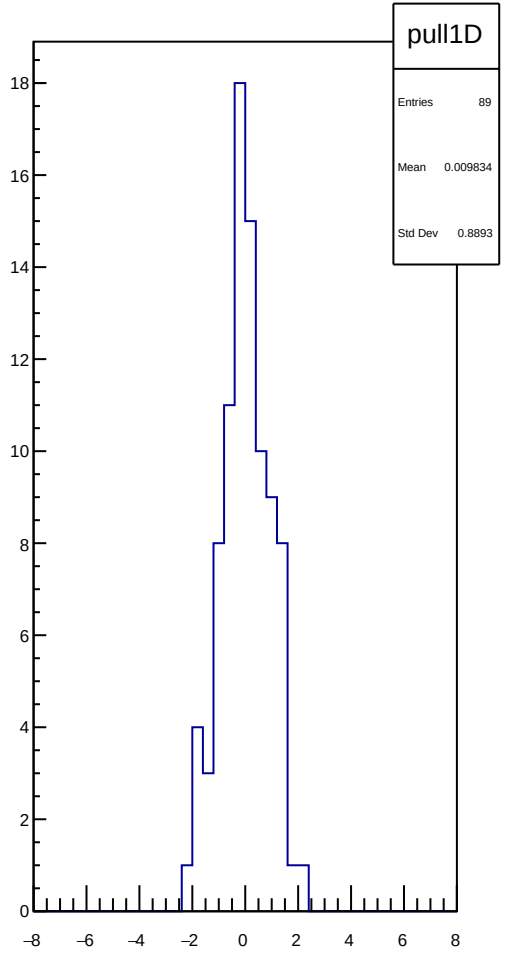

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.161e+04 / 88
p0 725.3 ± 0.5622
950
900
850
800
750
700
650
600
550

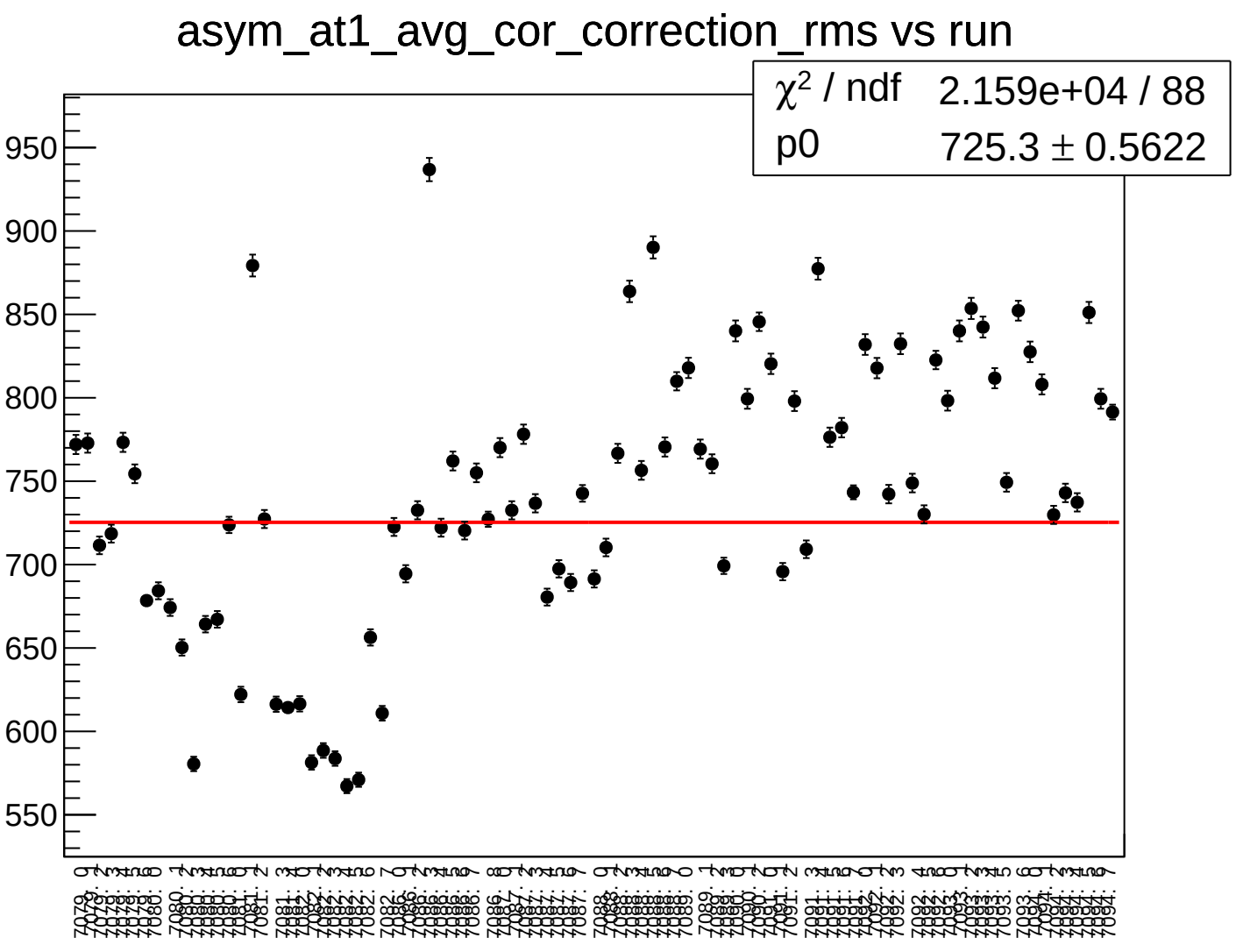

cor_asym_at1_avg_mean vs run
χ² / ndf 83.1 / 88
p0 2299 ± 1970
pull
Entries 89
Mean −148.5
Std Dev 0

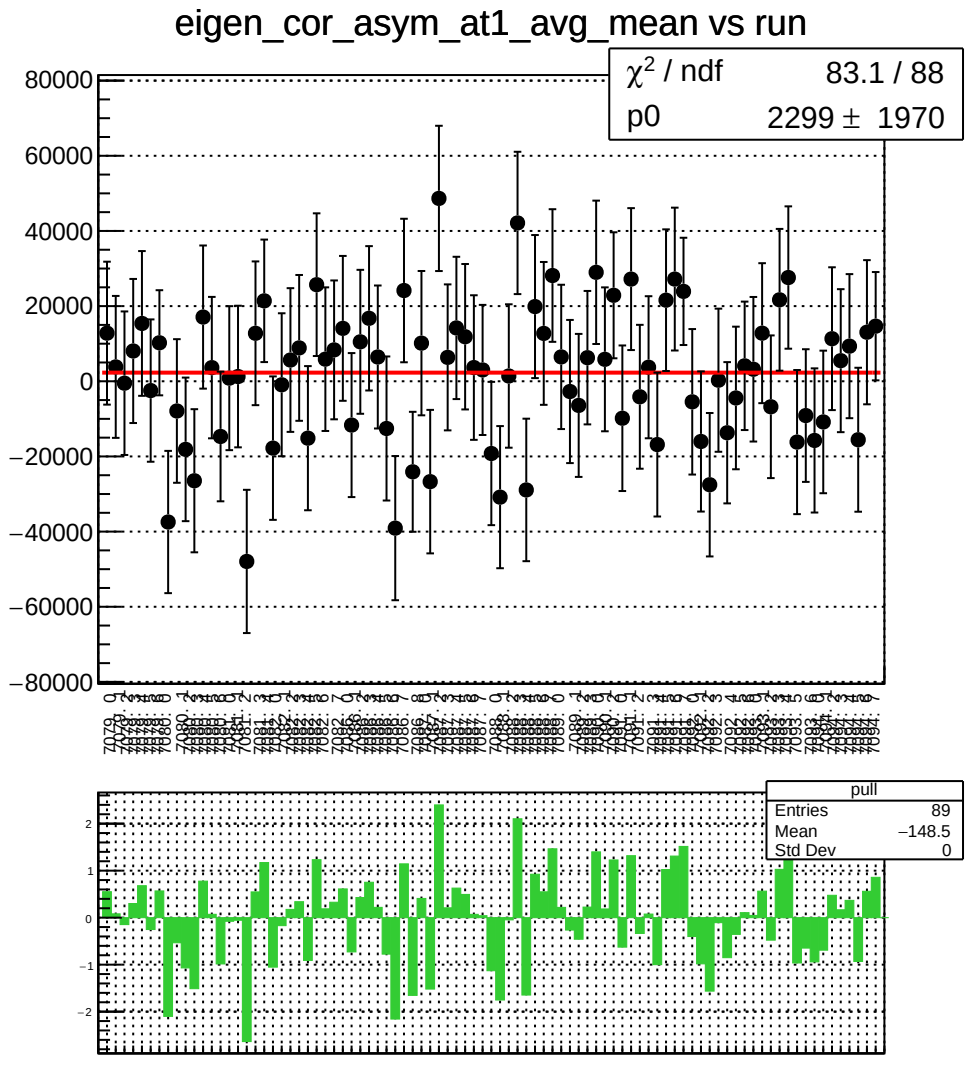

pull1D
Entries 89
Mean −0.01165
Std Dev 0.9662

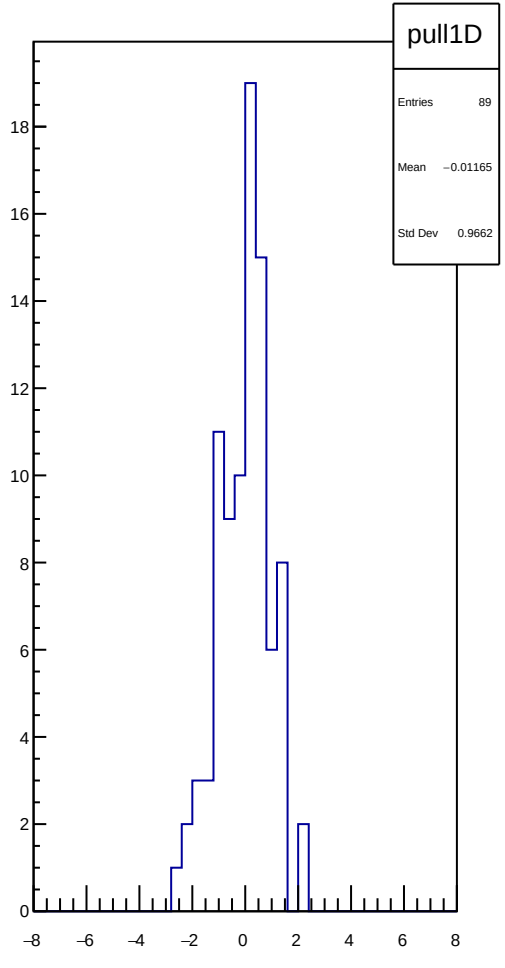

cor_asym_at1_avg_rms vs run
χ^2 / ndf 109.1 / 88
p0 1809 ± 1.393
1860
1840
1820
1800
1780
1760

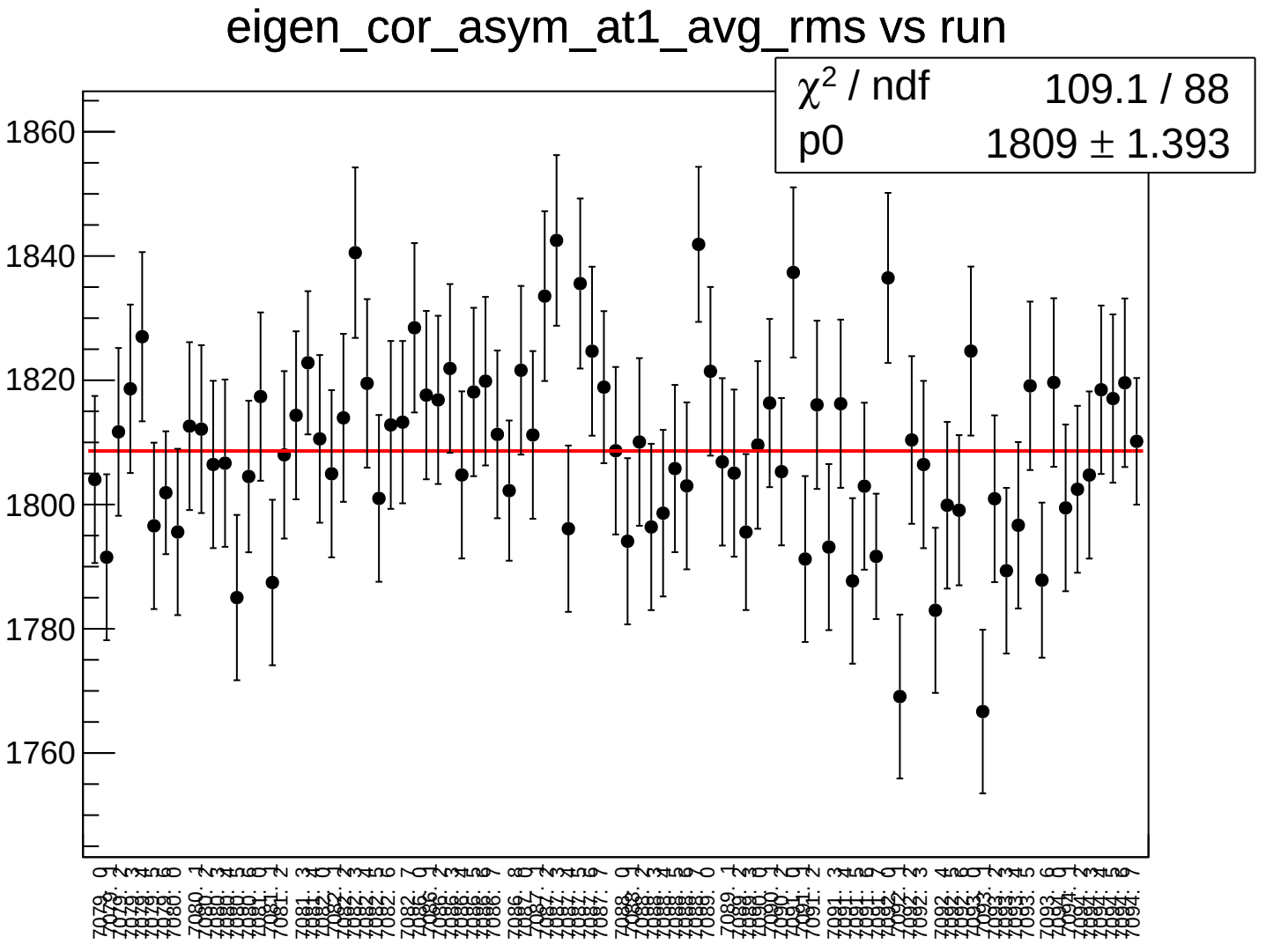

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 70.4 / 88
p0 −601.3 ± 795.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −63.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

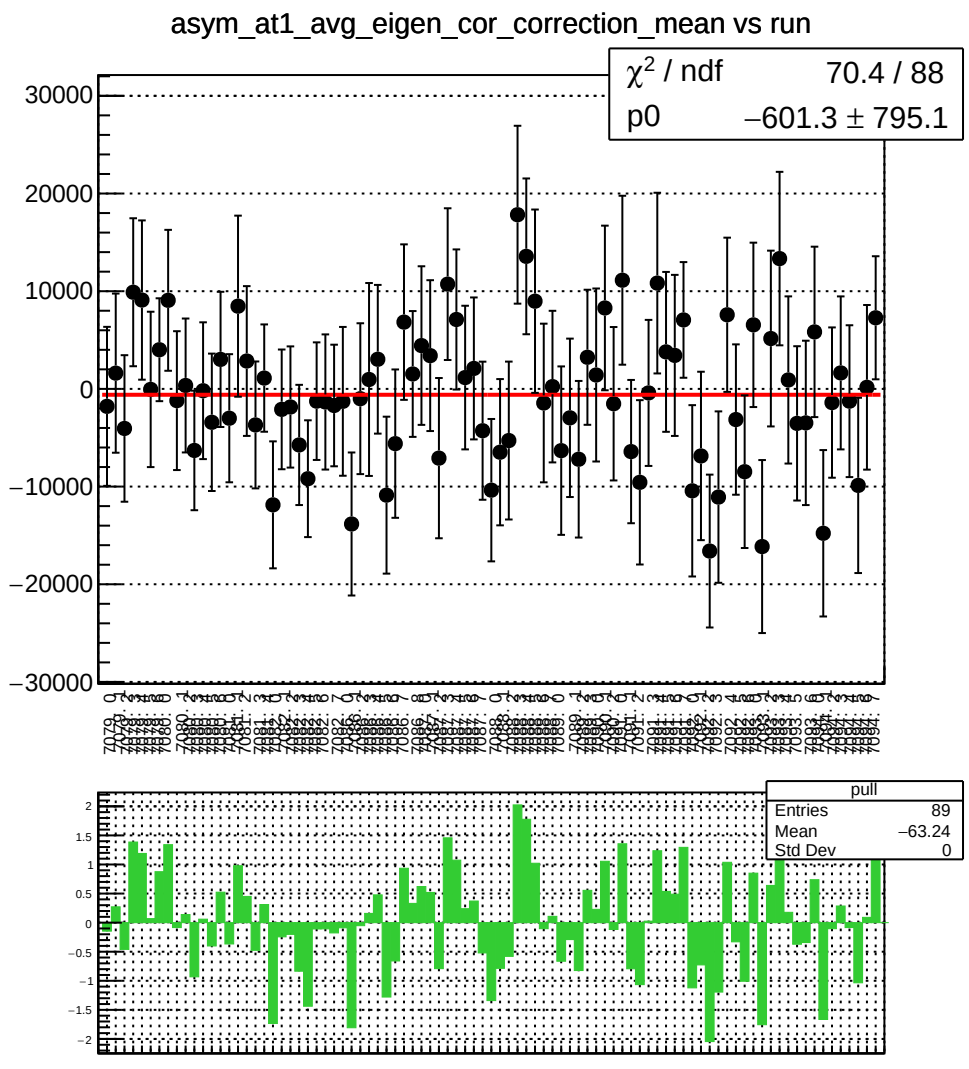

pull1D
Entries 89
Mean 0.009834
Std Dev 0.8893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

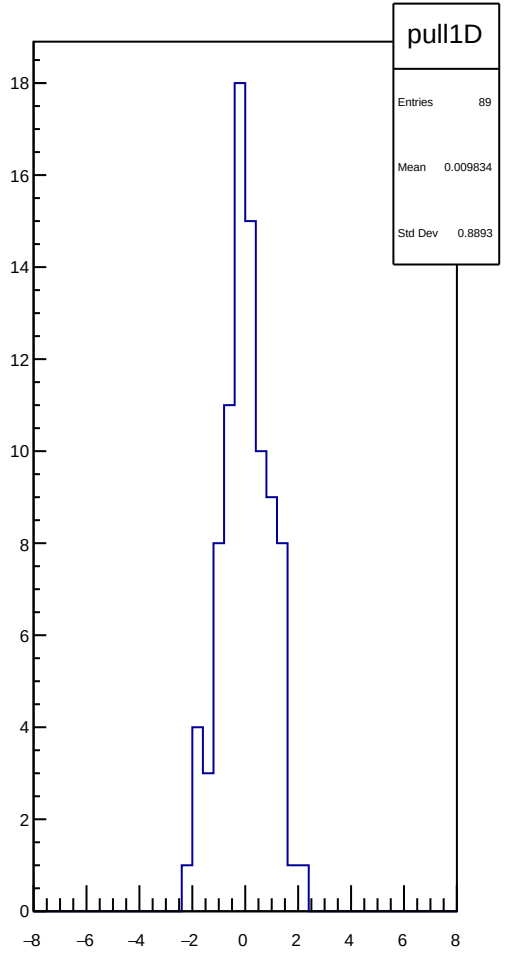

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.159e+04 / 88
p0 725.3 ± 0.5622
950
900
850
800
750
700
650
600
550

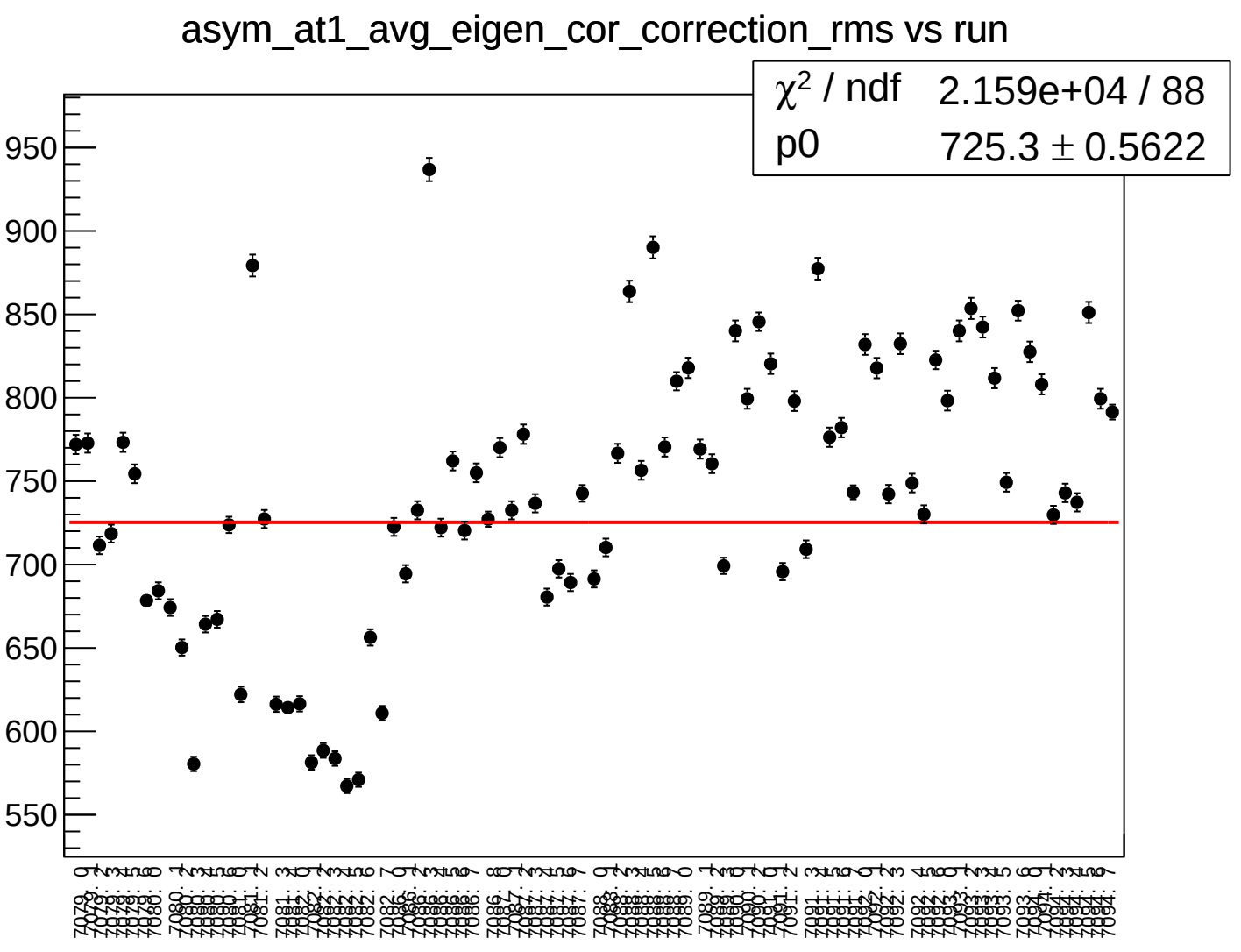

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 83.1 / 88
p0 2299 ± 1970
pull
Entries 89
Mean −148.5
Std Dev 0

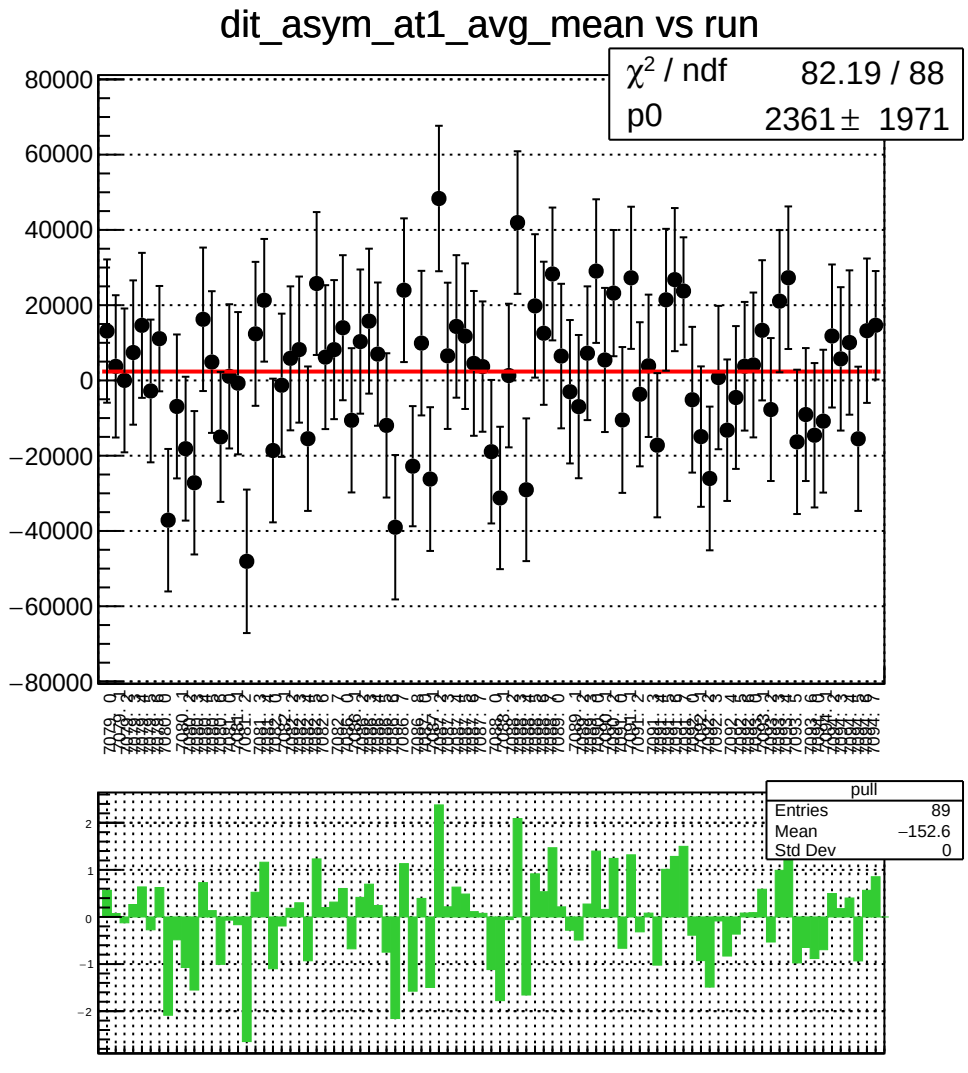

pull1D
Entries 89
Mean −0.01165
Std Dev 0.9662

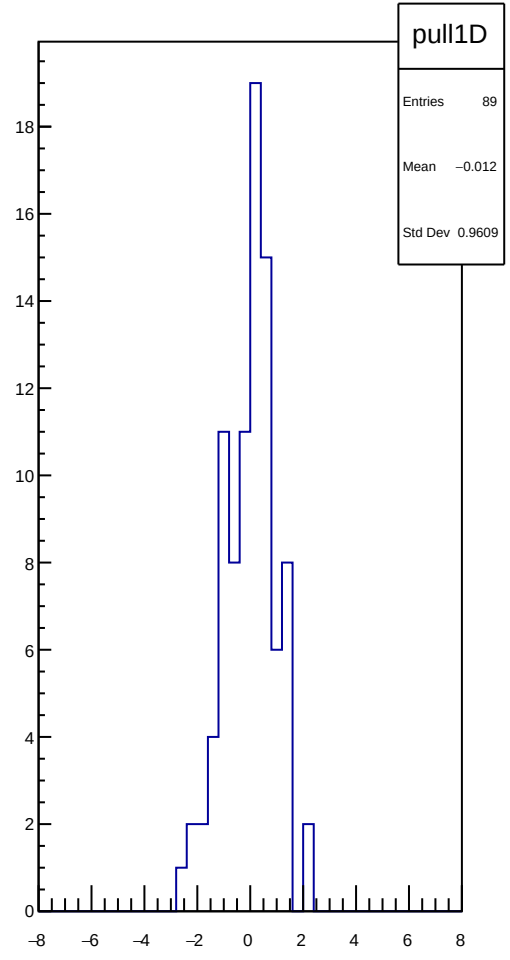

eigen_cor_asym_at1_avg_rms vs run
χ^2 / ndf 109.1 / 88
p0 1809 ± 1.393
1860
1840
1820
1800
1780
1760

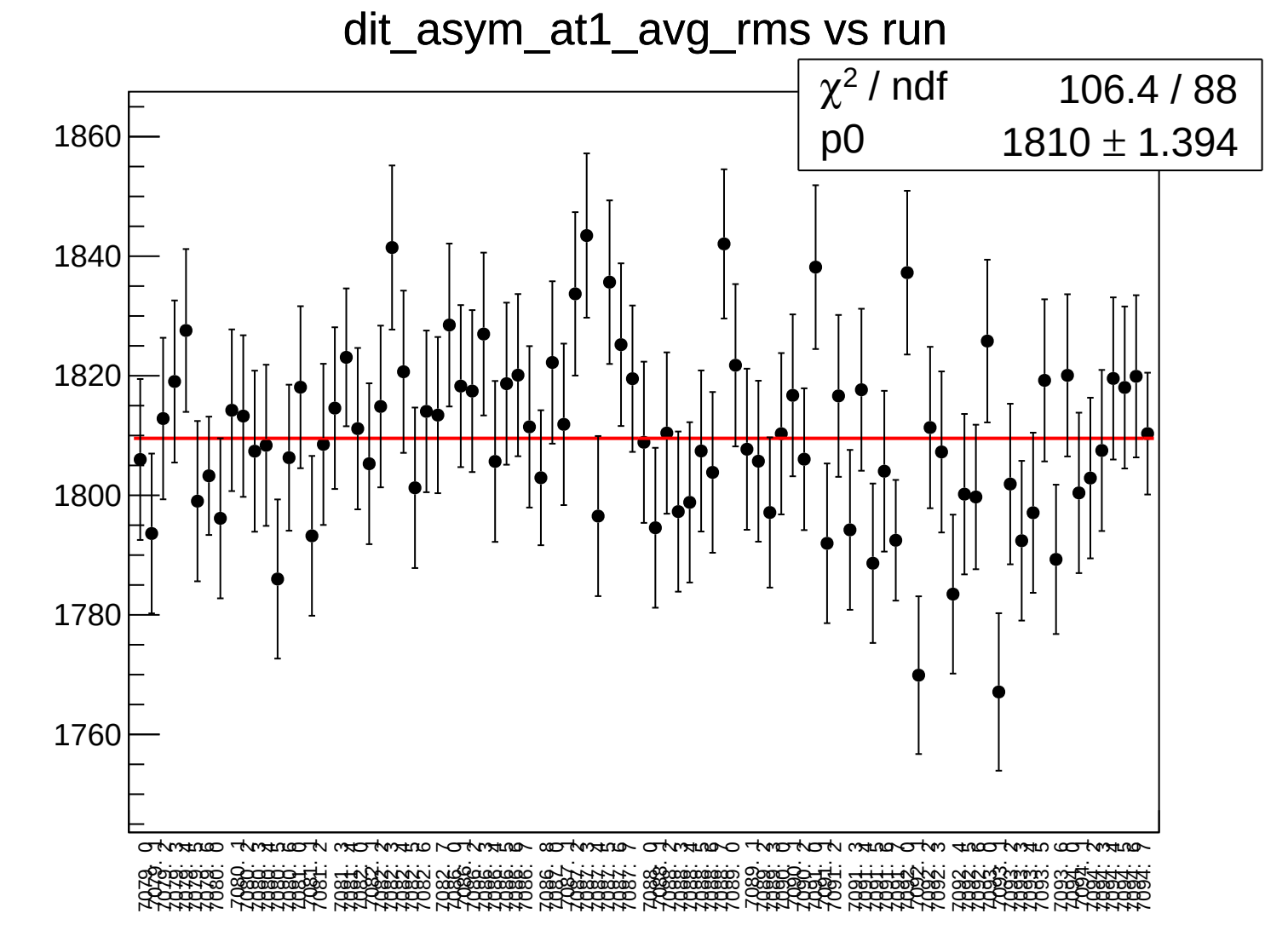

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.4 / 88
p0 −601.3 ± 795.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −63.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

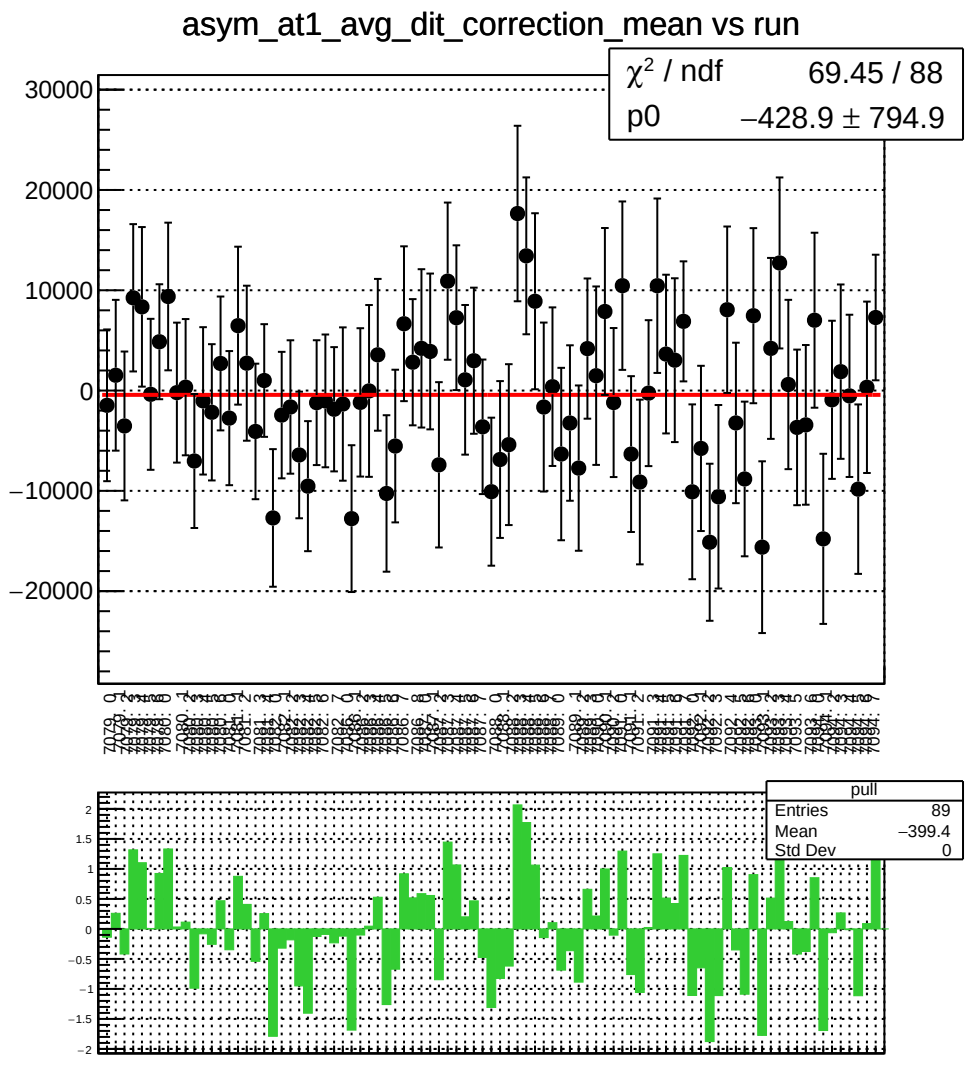

pull1D
Entries 89
Mean 0.009834
Std Dev 0.8893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

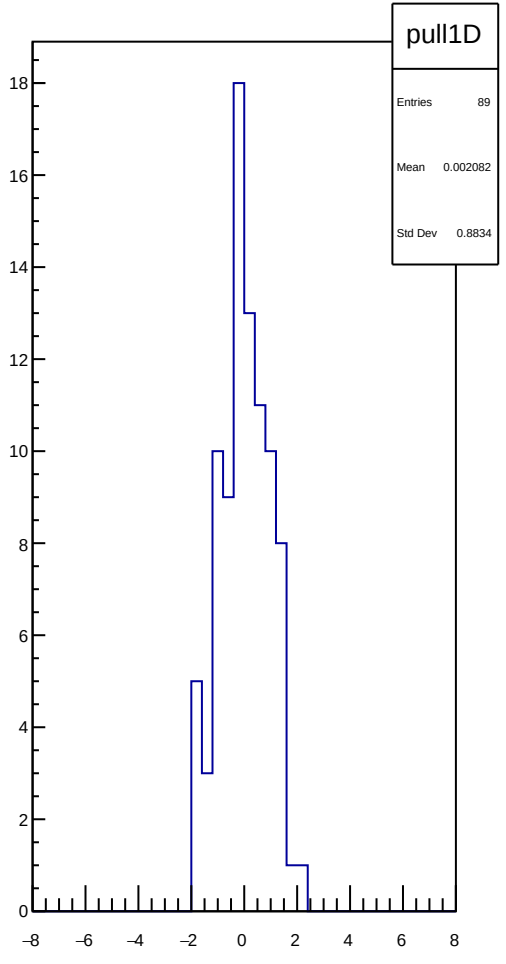

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.159e+04 / 88
p0 725.3 ± 0.5622
950
900
850
800
750
700
650
600
550

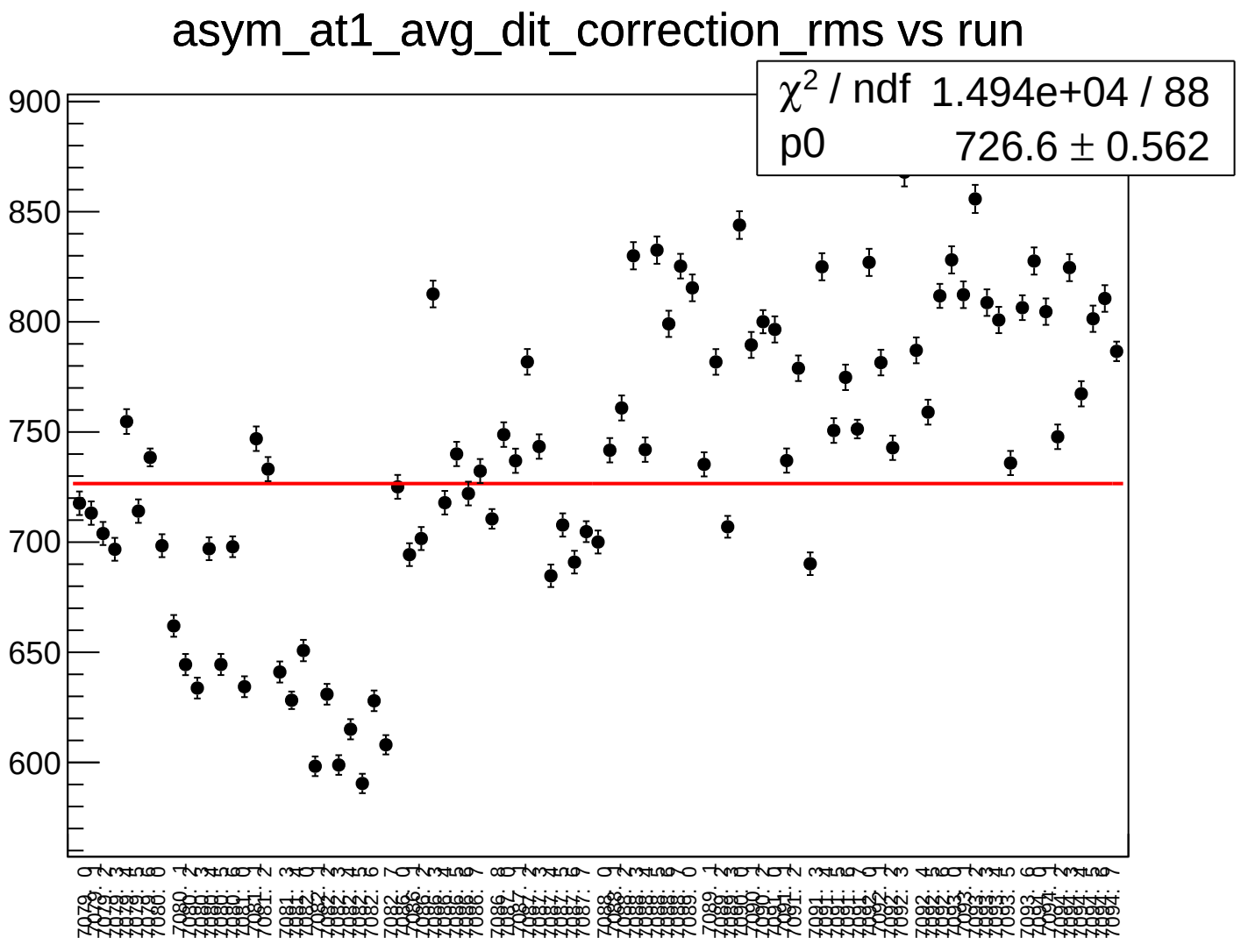

dit_asym_at1_avg_mean vs run
χ² / ndf 82.19 / 88
p0 2361 ± 1971
pull
Entries 89
Mean −152.6
Std Dev 0

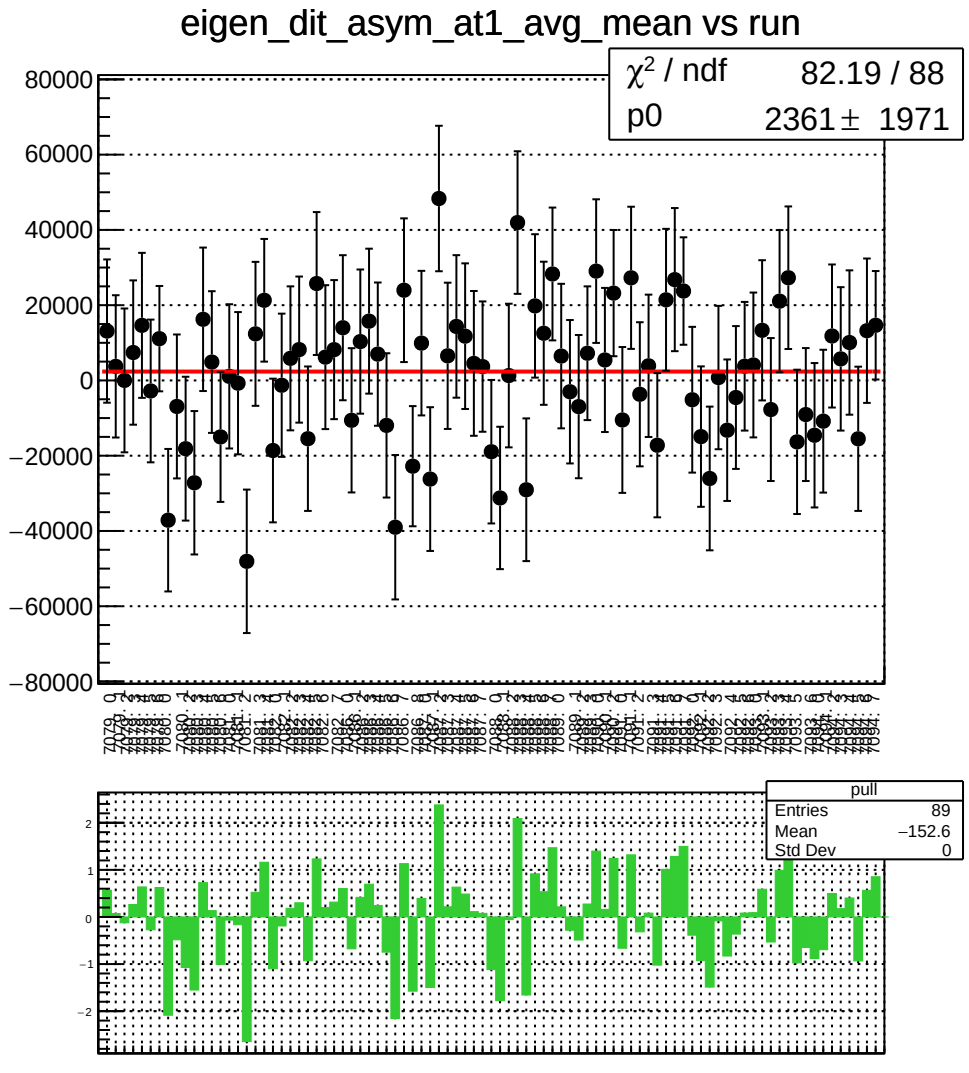

pull1D
Entries 89
Mean −0.012
Std Dev 0.9609

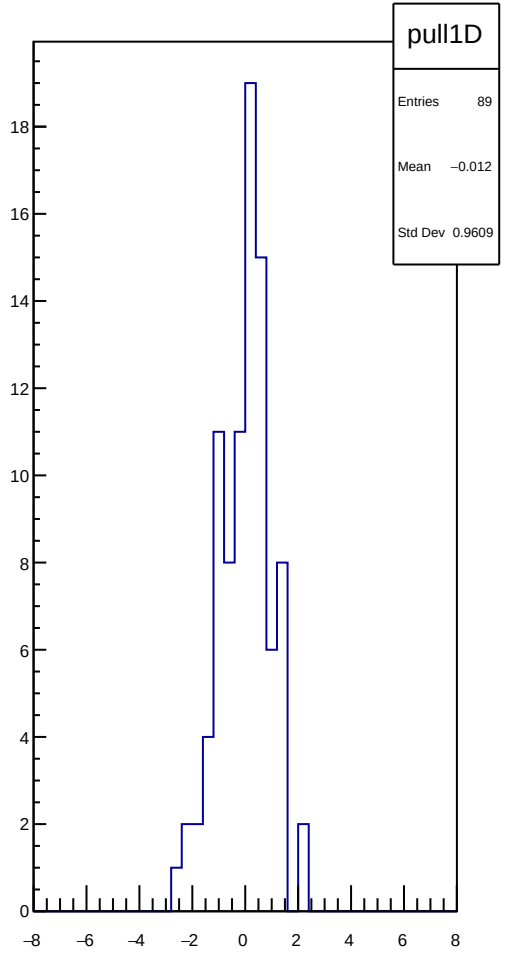

dit_asym_at1_avg_rms vs run
χ² / ndf 106.4 / 88
p0 1810 ± 1.394
1860
1840
1820
1800
1780
1760

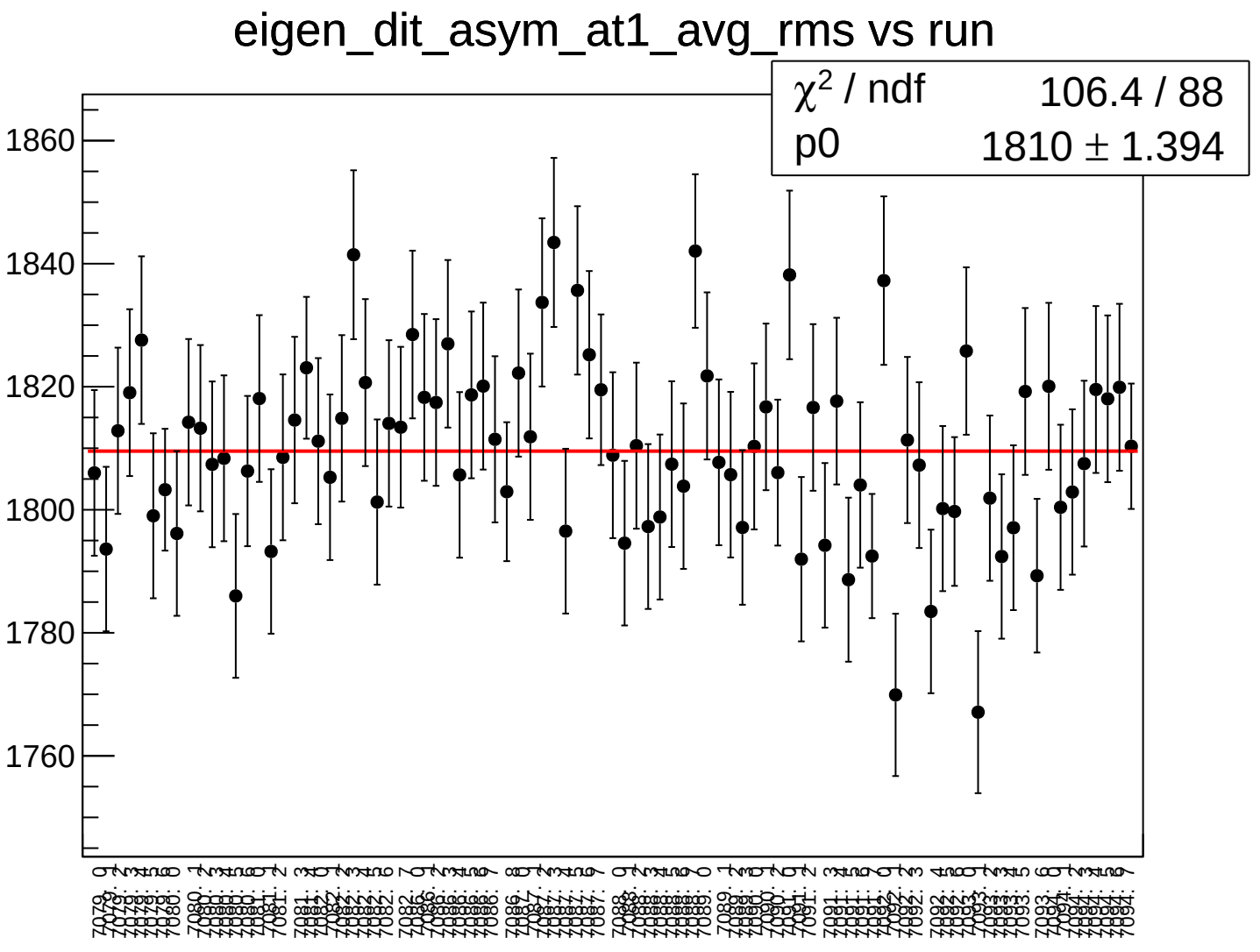

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 69.45 / 88
p0 −428.9 ± 794.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −399.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

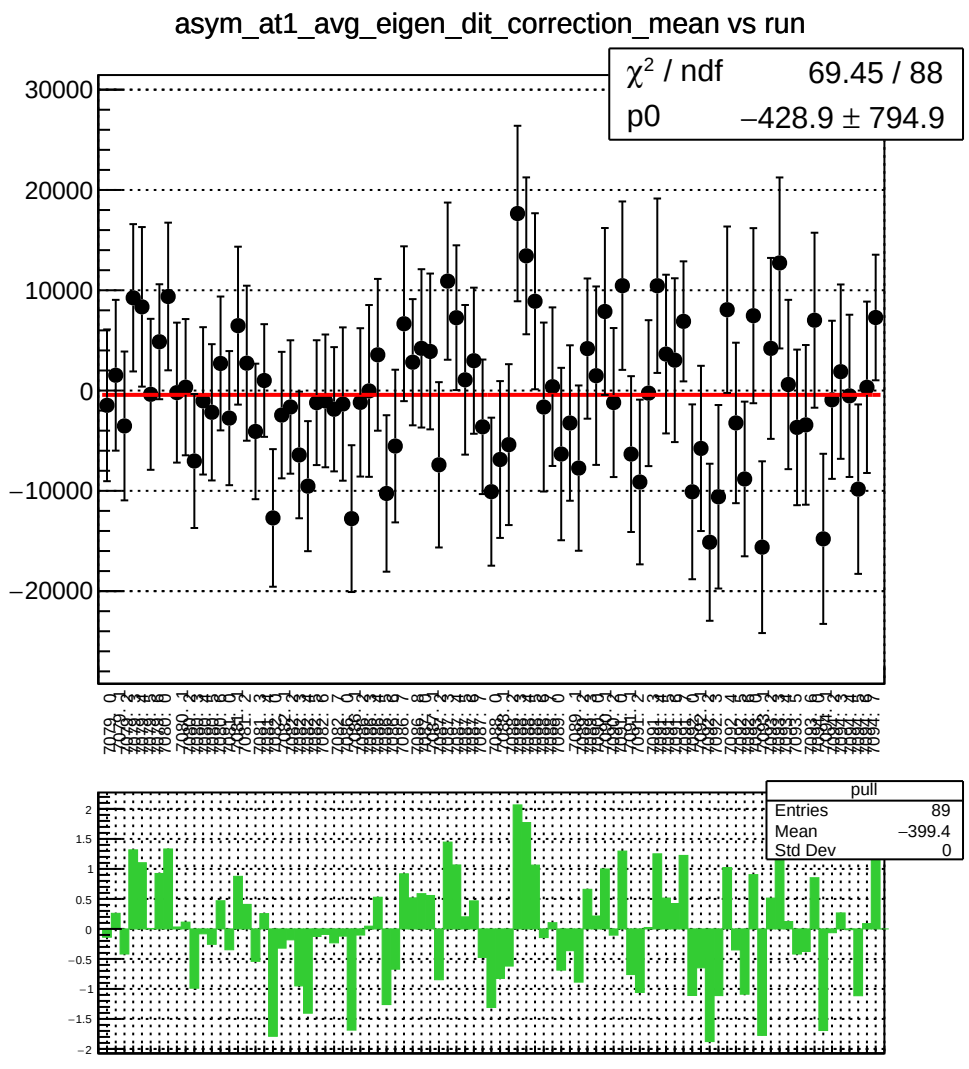

pull1D
Entries 89
Mean 0.002082
Std Dev 0.8834
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

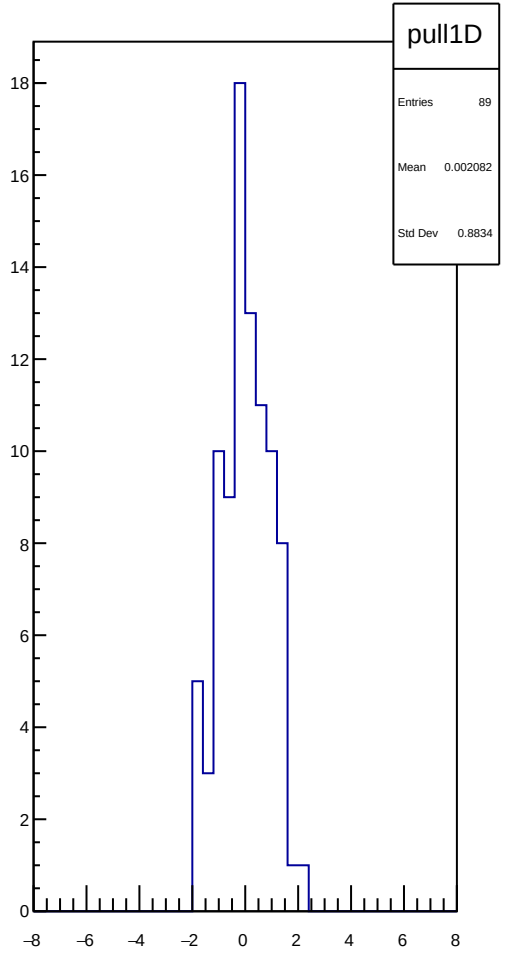

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.494e+04 / 88
p0 726.6 ± 0.562
900
850
800
750
700
650
600

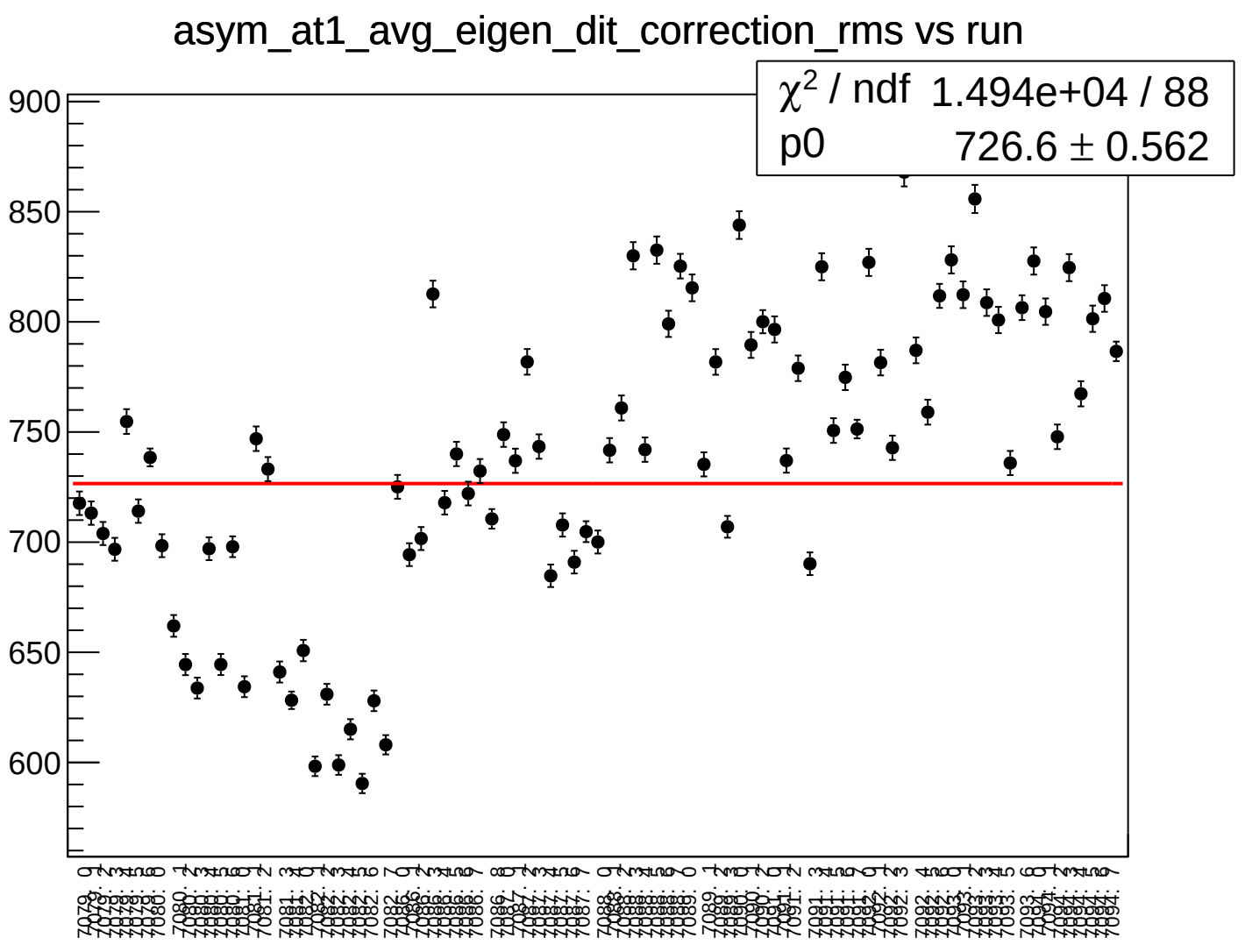

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 82.19 / 88
p0 2361 ± 1971
pull
Entries 89
Mean −152.6
Std Dev 0

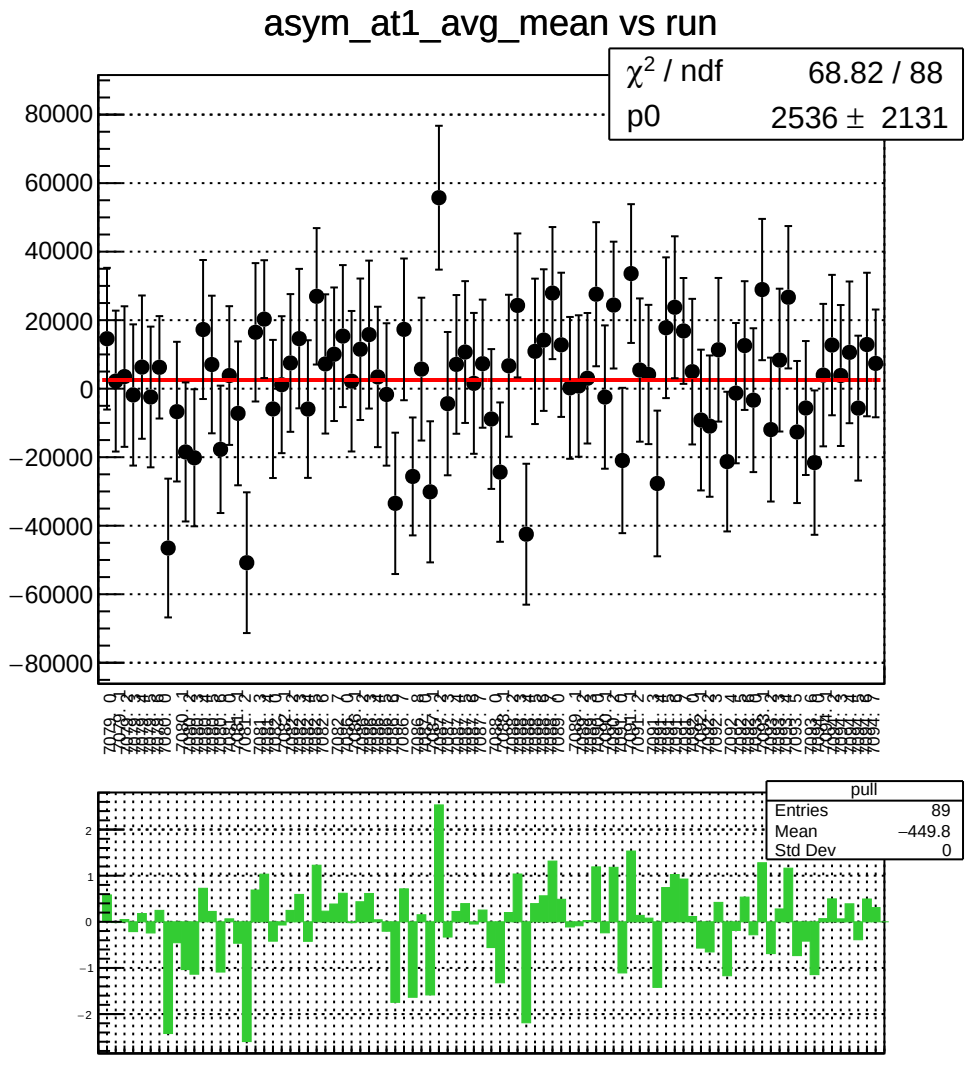

pull1D
Entries 89
Mean −0.012
Std Dev 0.9609

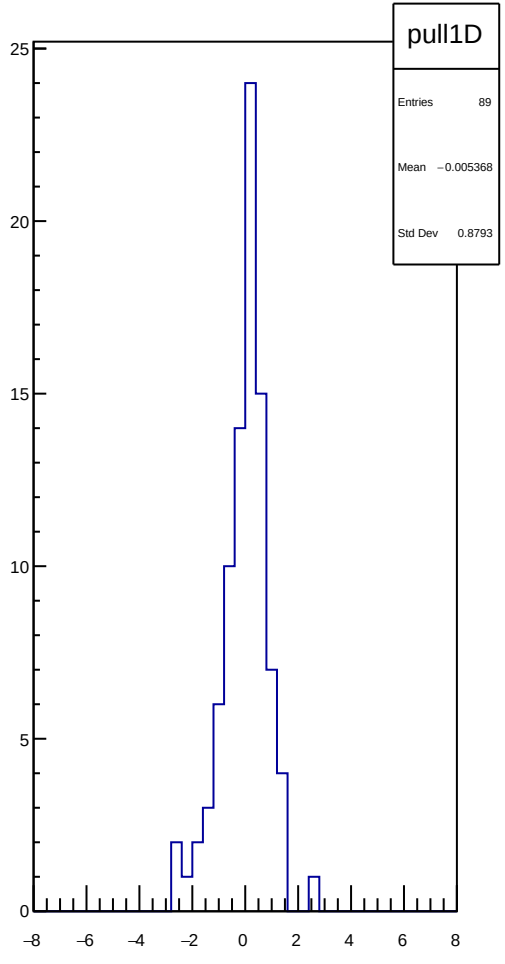

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 106.4 / 88
p0 1810 ± 1.394
1860
1840
1820
1800
1780
1760

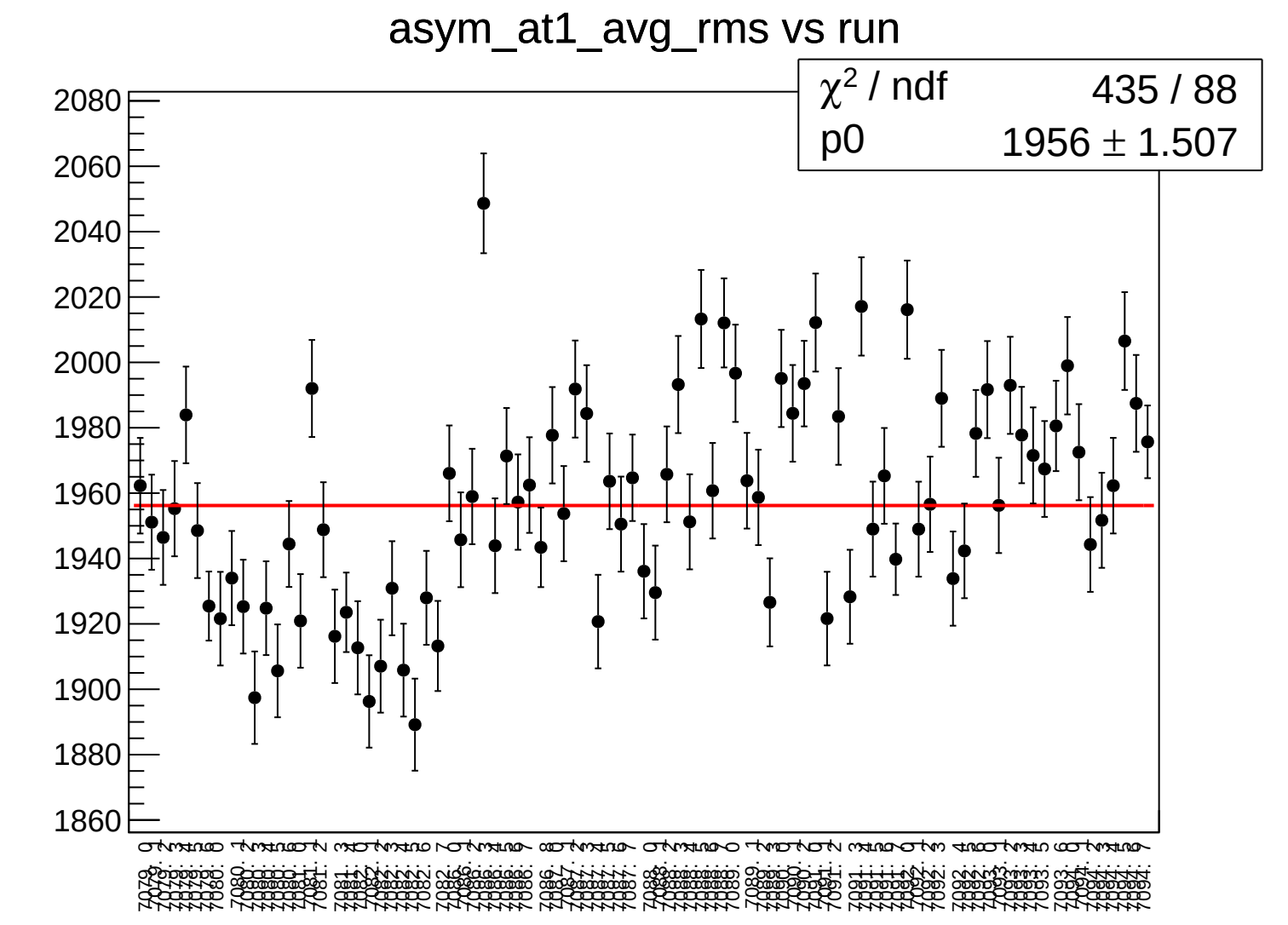

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.45 / 88
p0 −428.9 ± 794.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −399.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

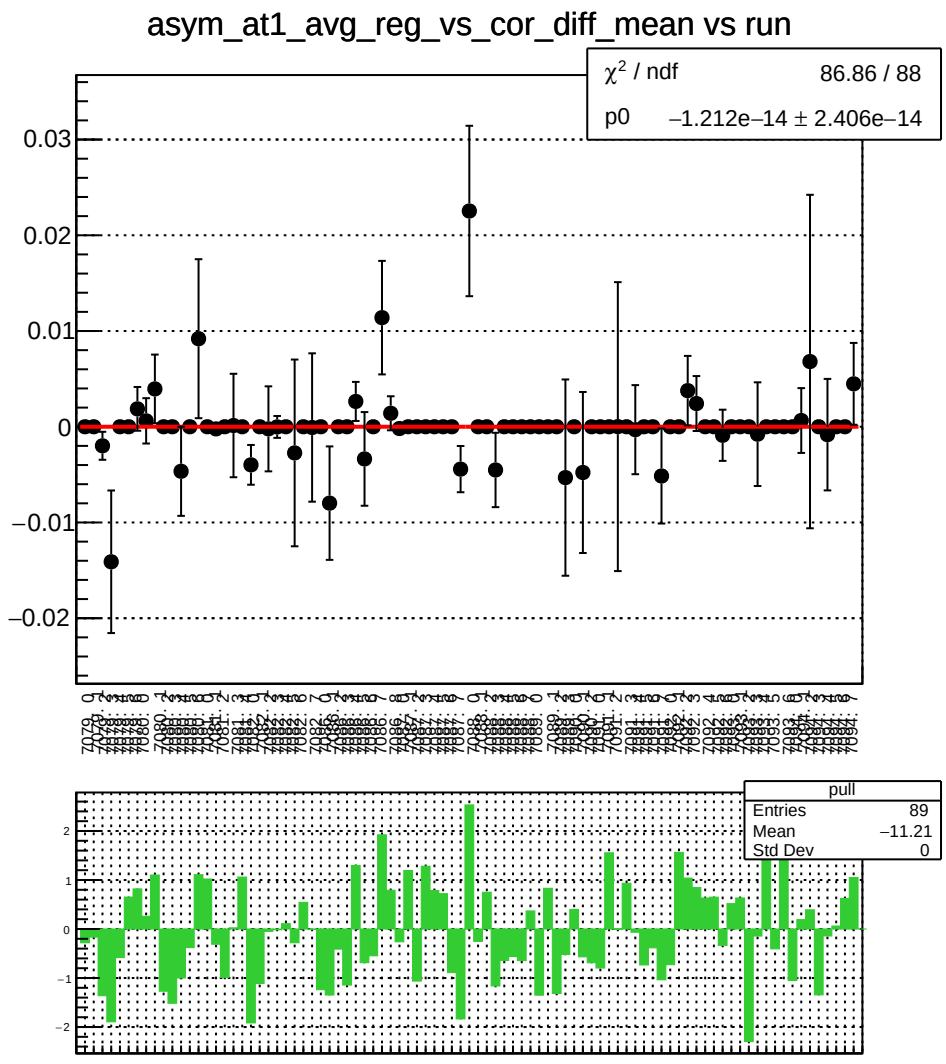

pull1D
Entries 89
Mean 0.002082
Std Dev 0.8834
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

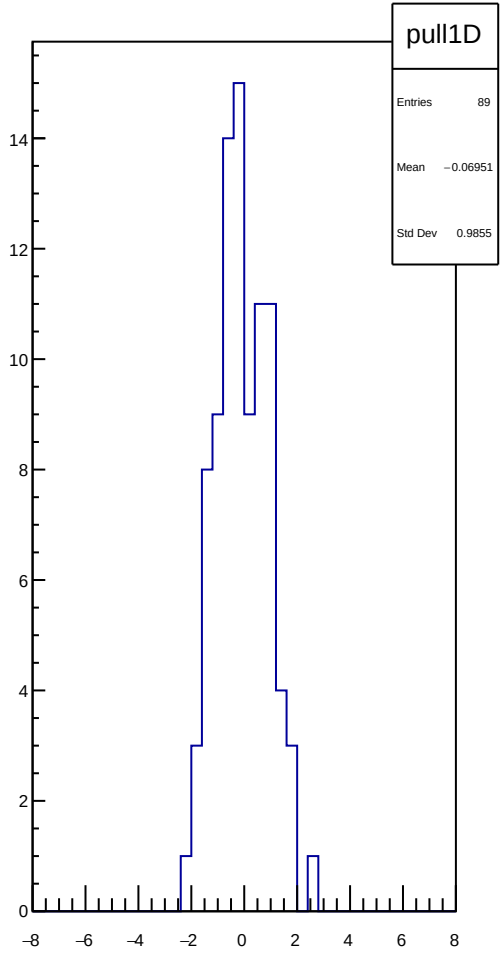

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.494e+04 / 88
p0 726.6 ± 0.562
900
850
800
750
700
650
600

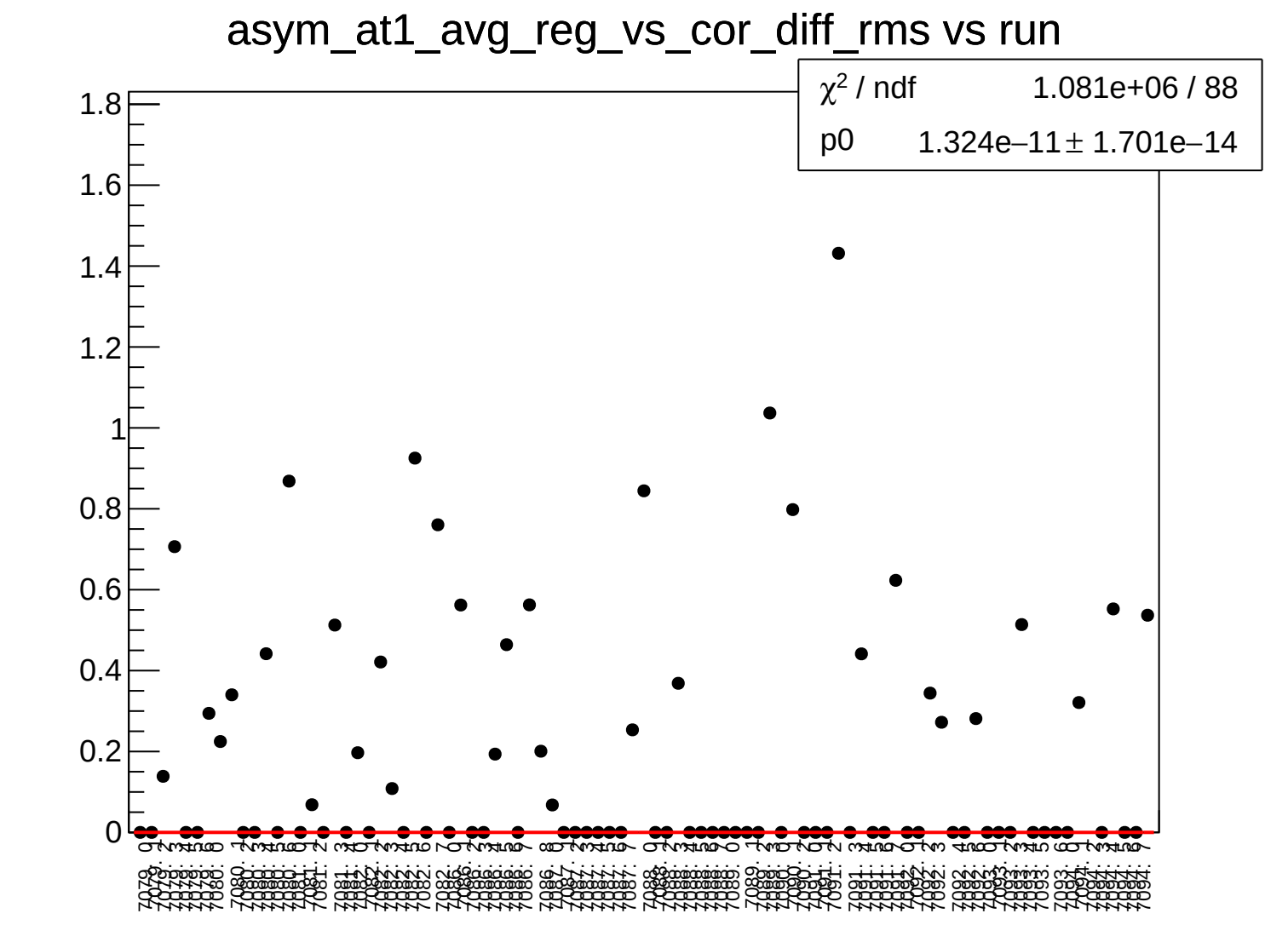

asym_at1_avg_mean vs run
χ² / ndf 68.82 / 88
p0 2536 ± 2131
pull
Entries 89
Mean −449.8
Std Dev 0

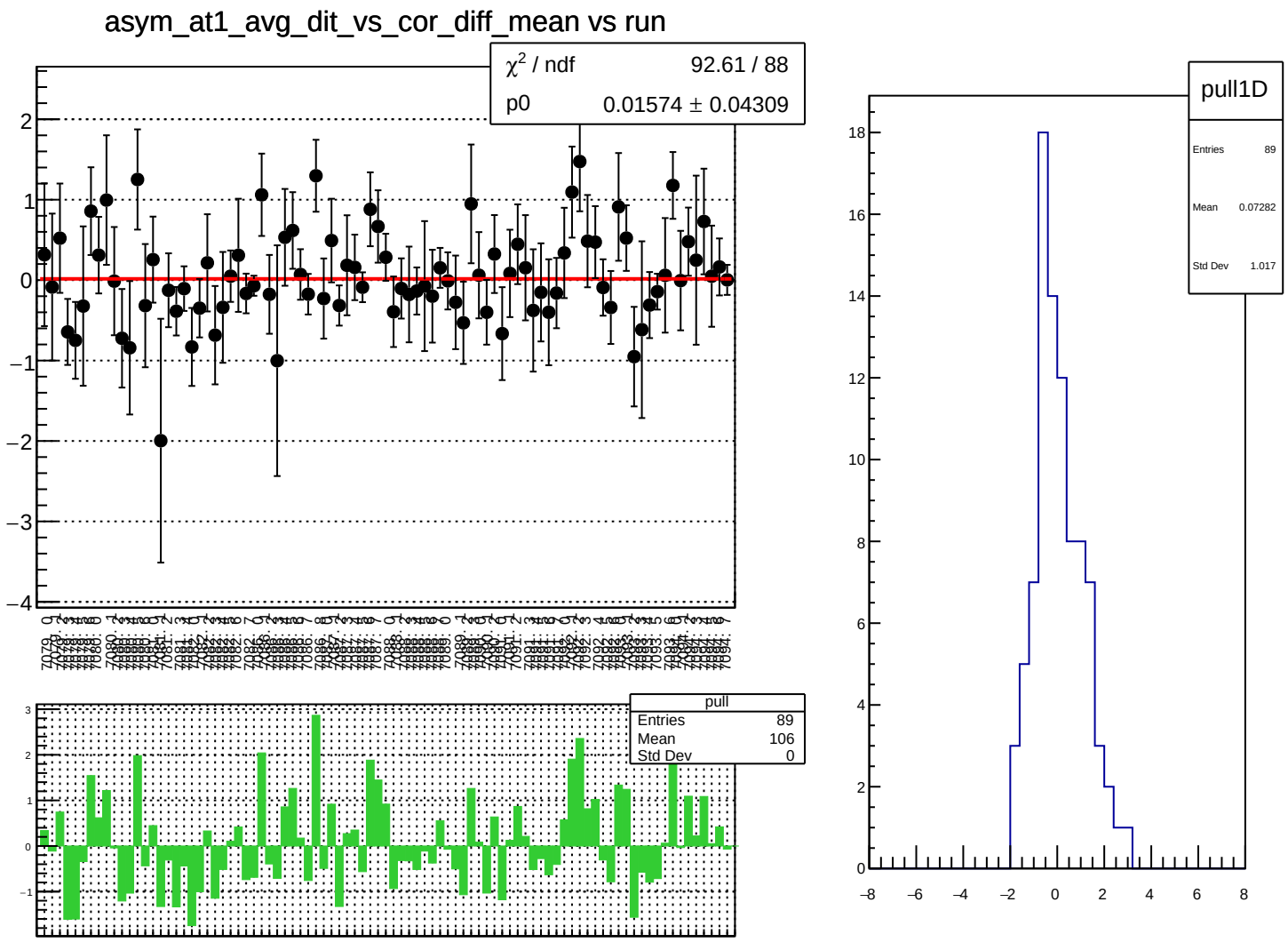

pull1D
Entries 89
Mean −0.005368
Std Dev 0.8793

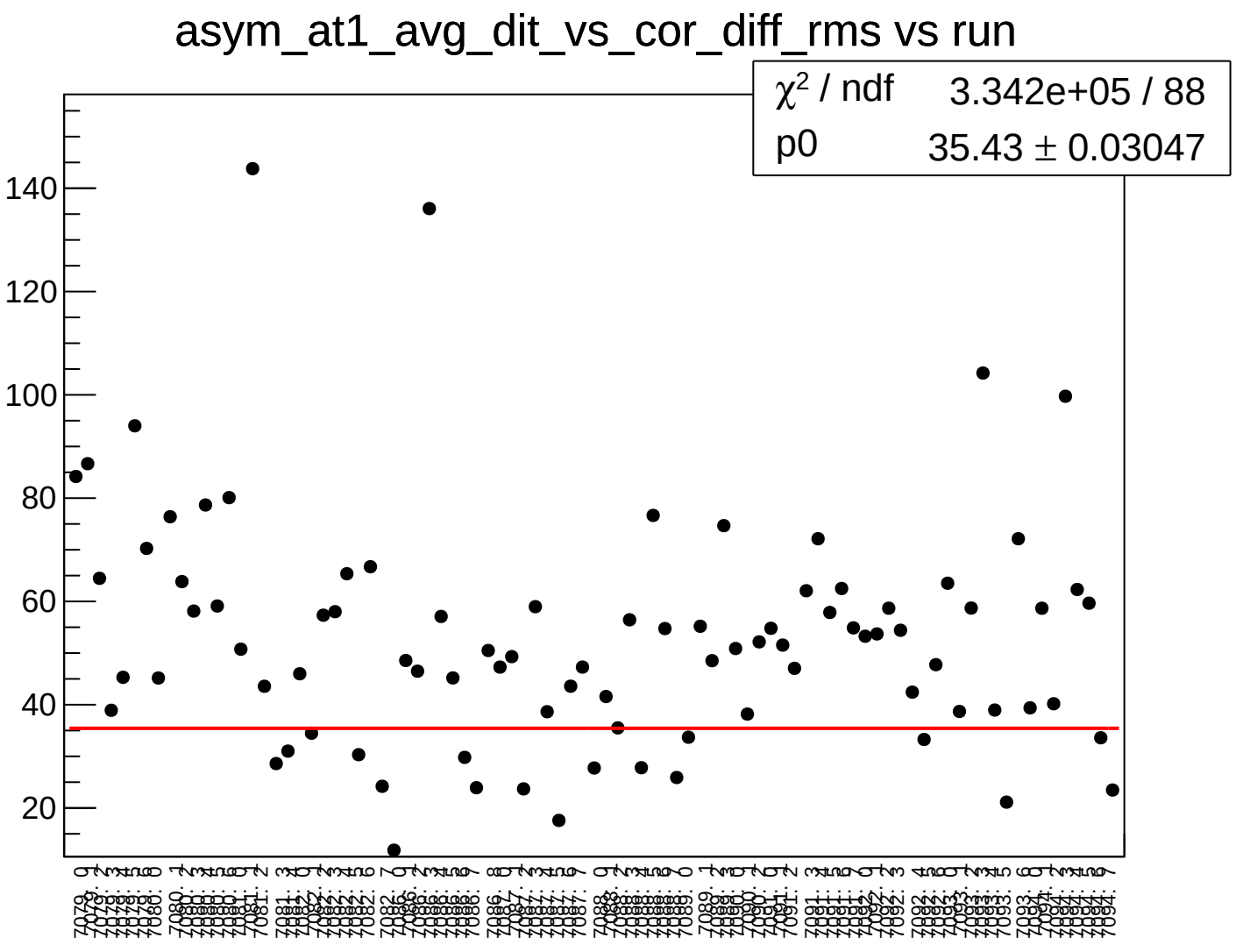

asym_at1_avg_rms vs run
χ² / ndf 435 / 88
p0 1956 ± 1.507
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860

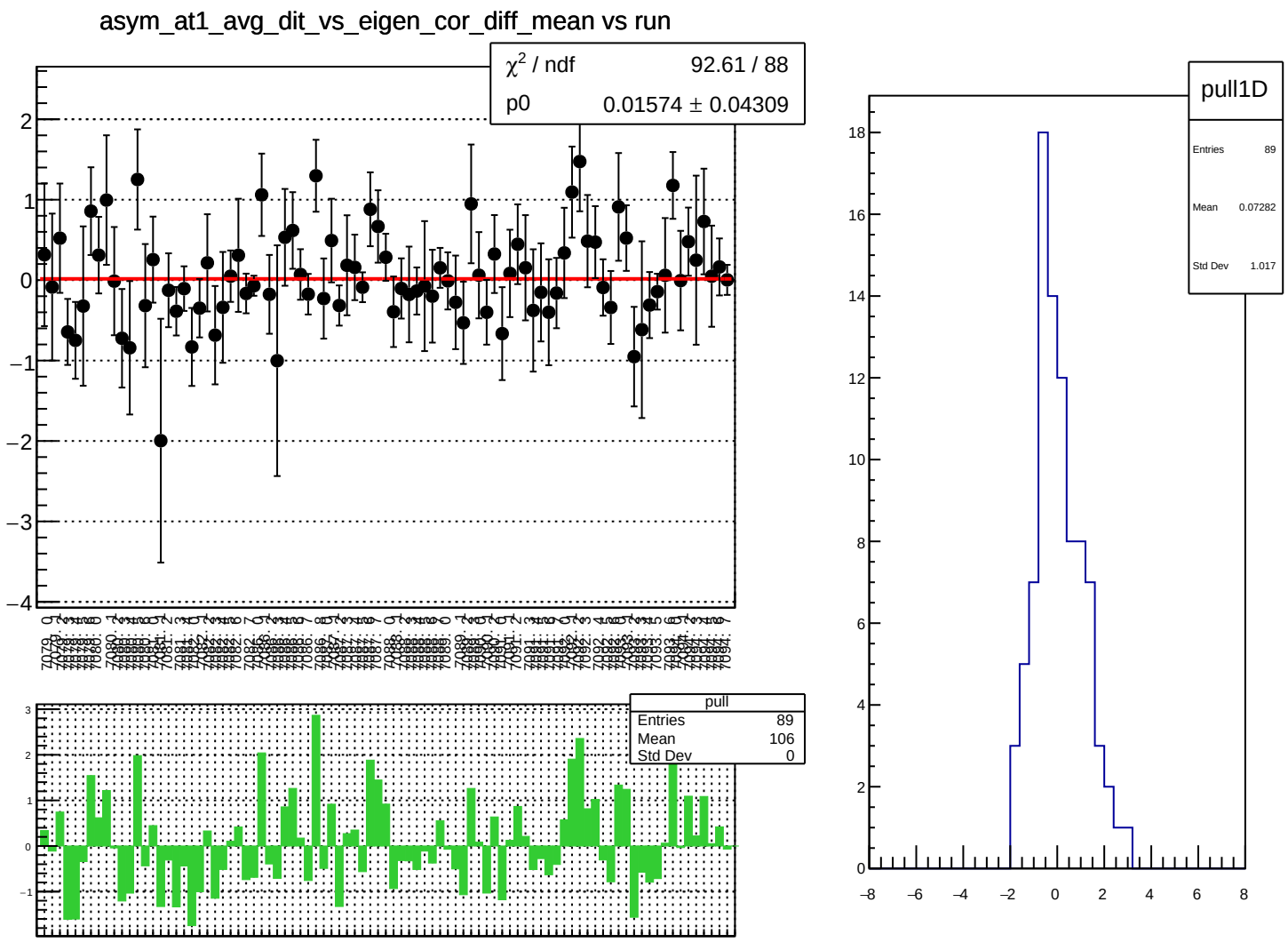

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.86 / 88
p0 −1.212e−14 ± 2.406e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean −11.21
Std Dev 0

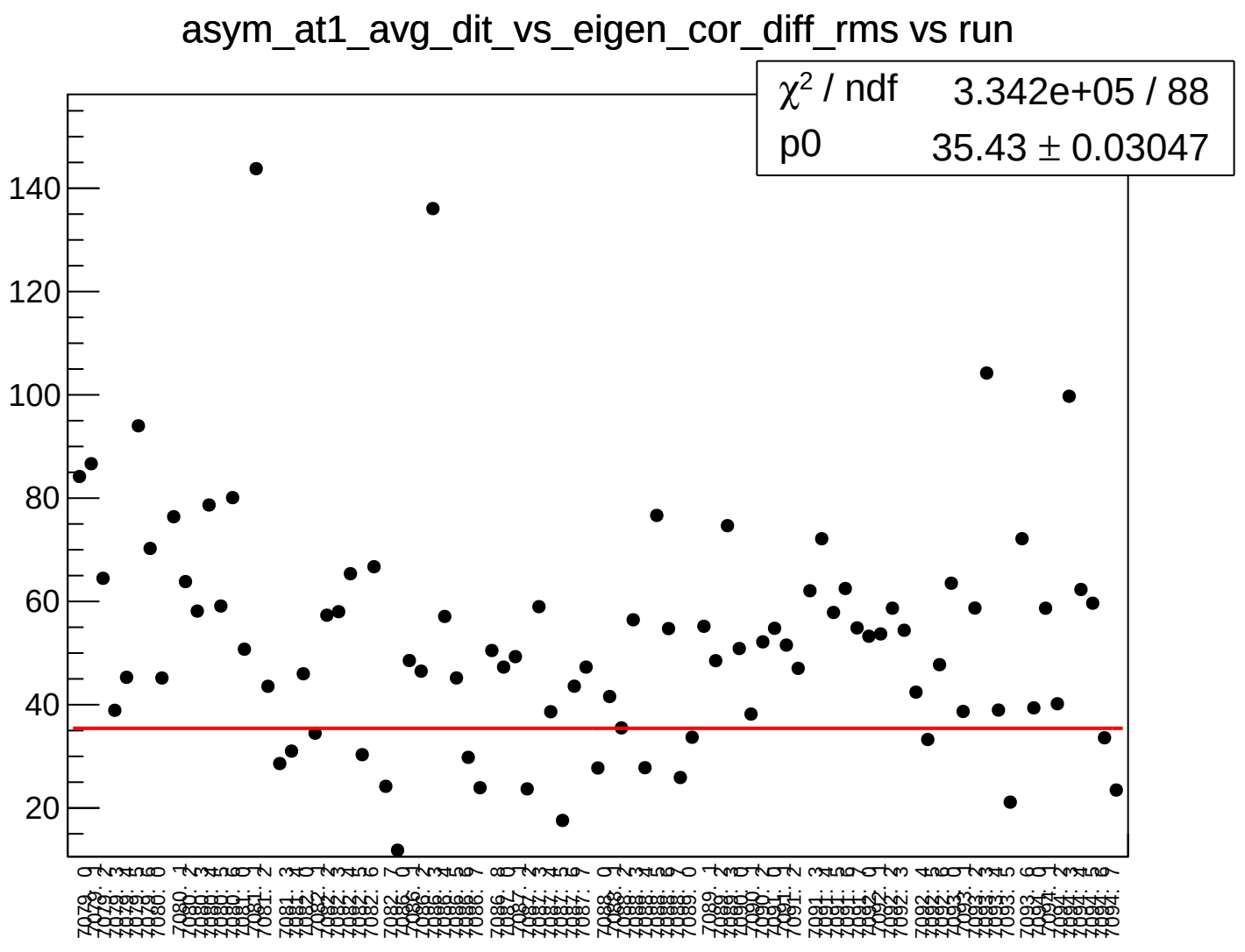

pull1D
Entries 89
Mean −0.06951
Std Dev 0.9855
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

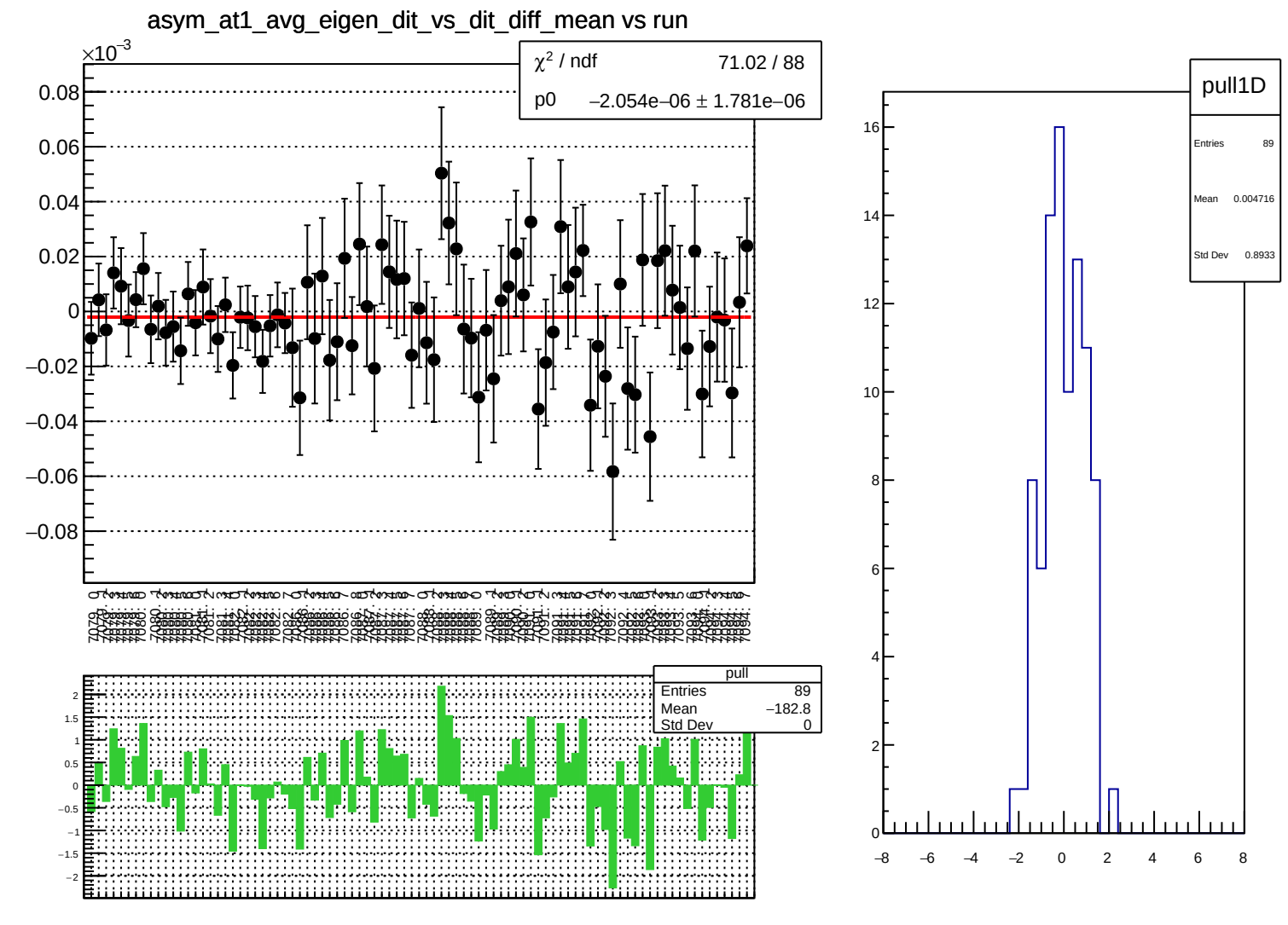

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.081e+06 / 88
p0 1.324e−11 ± 1.701e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

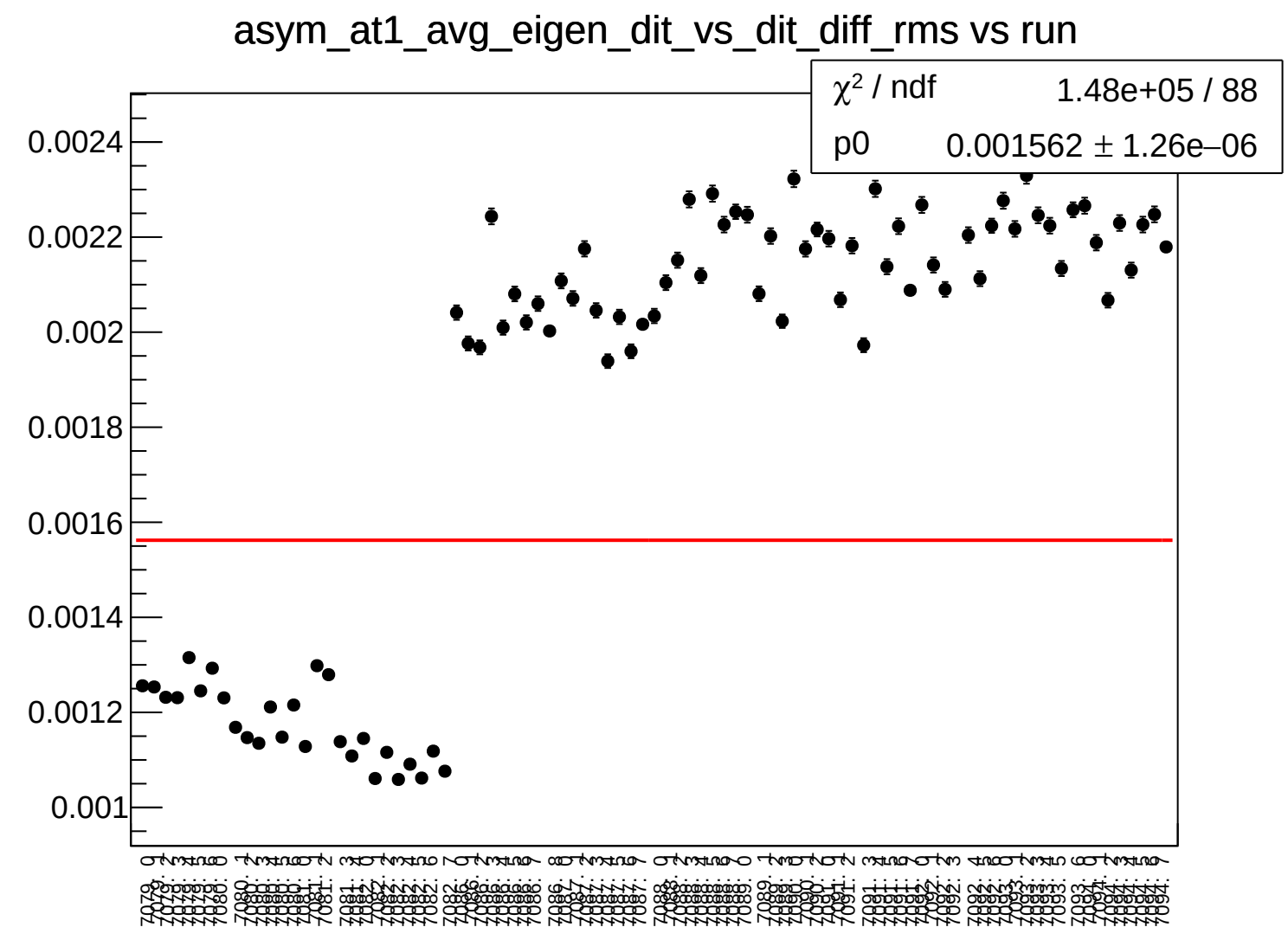

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.61 / 88
p0 0.01574 ± 0.04309
pull
Entries 89
Mean 106
Std Dev 0
pull1D
Entries 89
Mean 0.07282
Std Dev 1.017

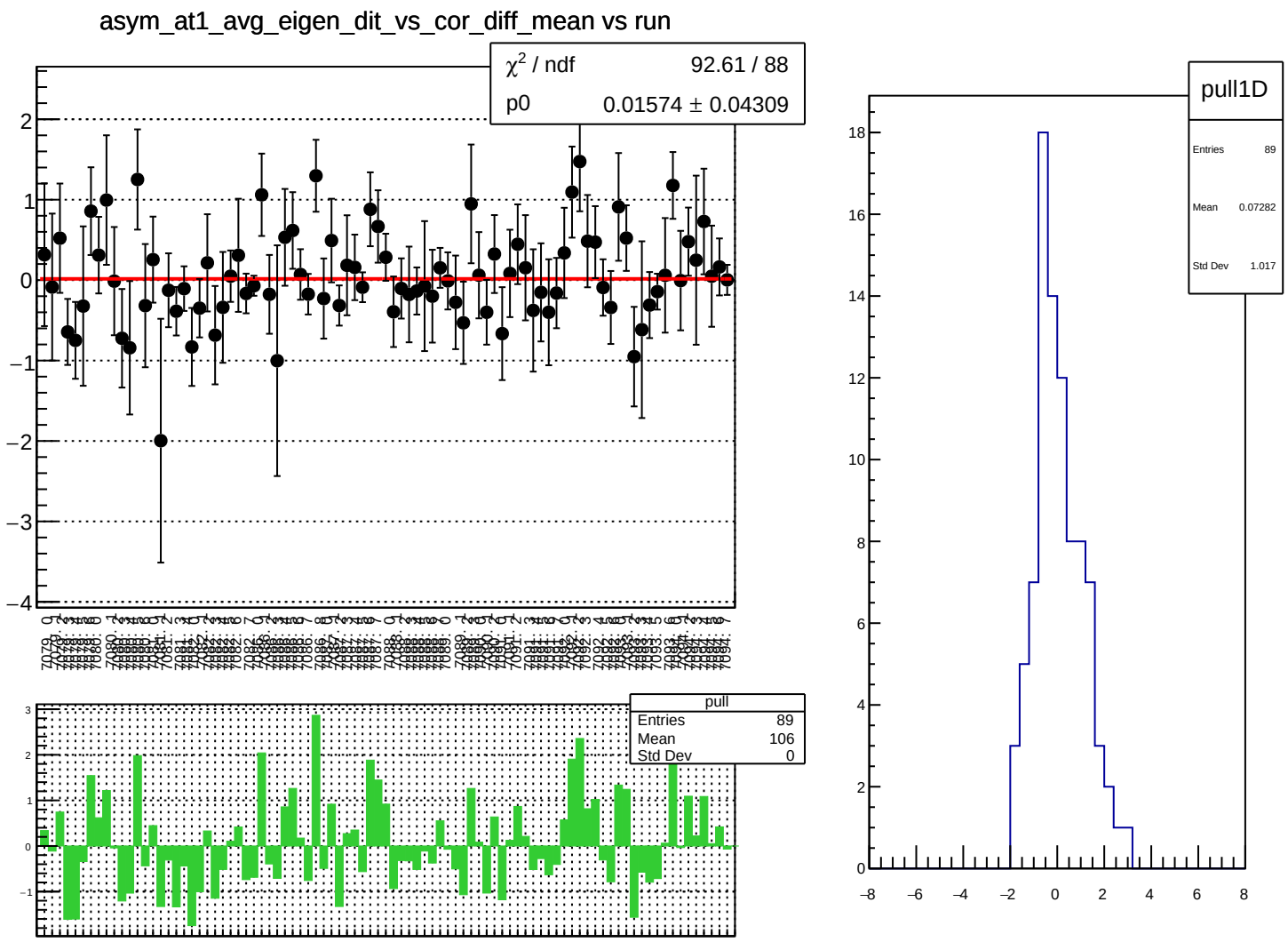

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.342e+05 / 88
p0 35.43 ± 0.03047
140
120
100
80
60
40
20

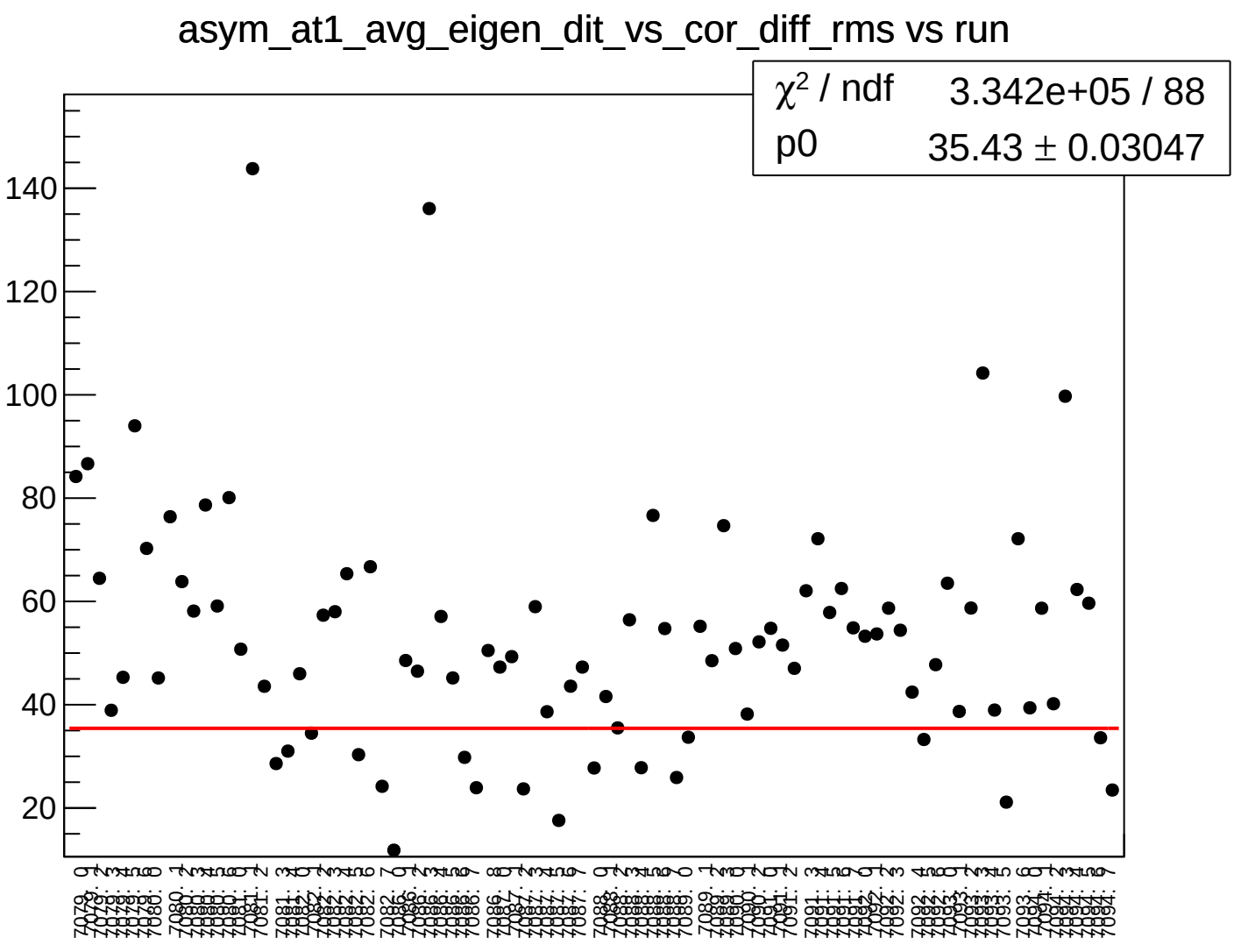

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.61 / 88
p0 0.01574 ± 0.04309
pull
Entries 89
Mean 106
Std Dev 0
pull1D
Entries 89
Mean 0.07282
Std Dev 1.017

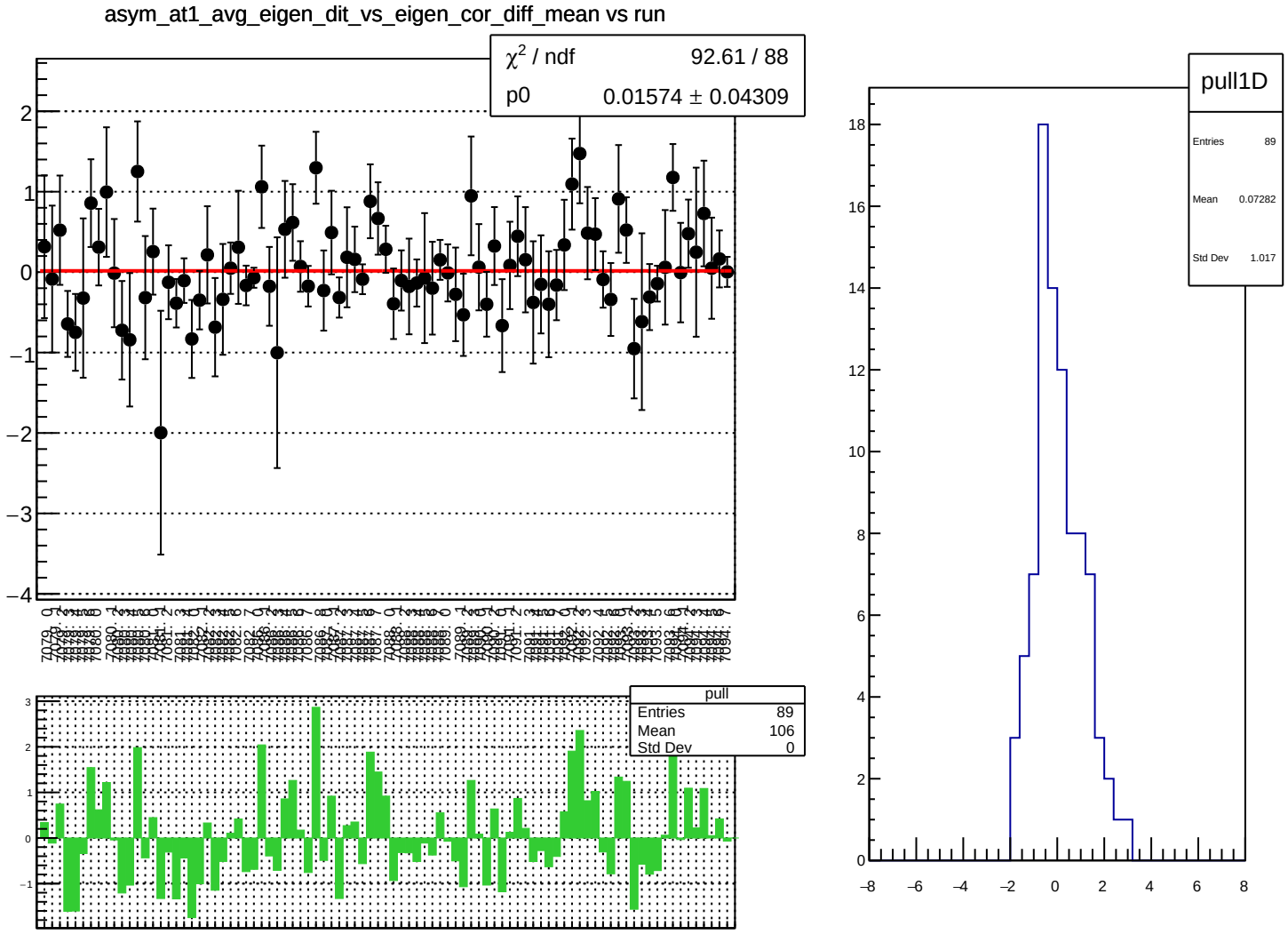

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.342e+05 / 88
p0 35.43 ± 0.03047
140
120
100
80
60
40
20

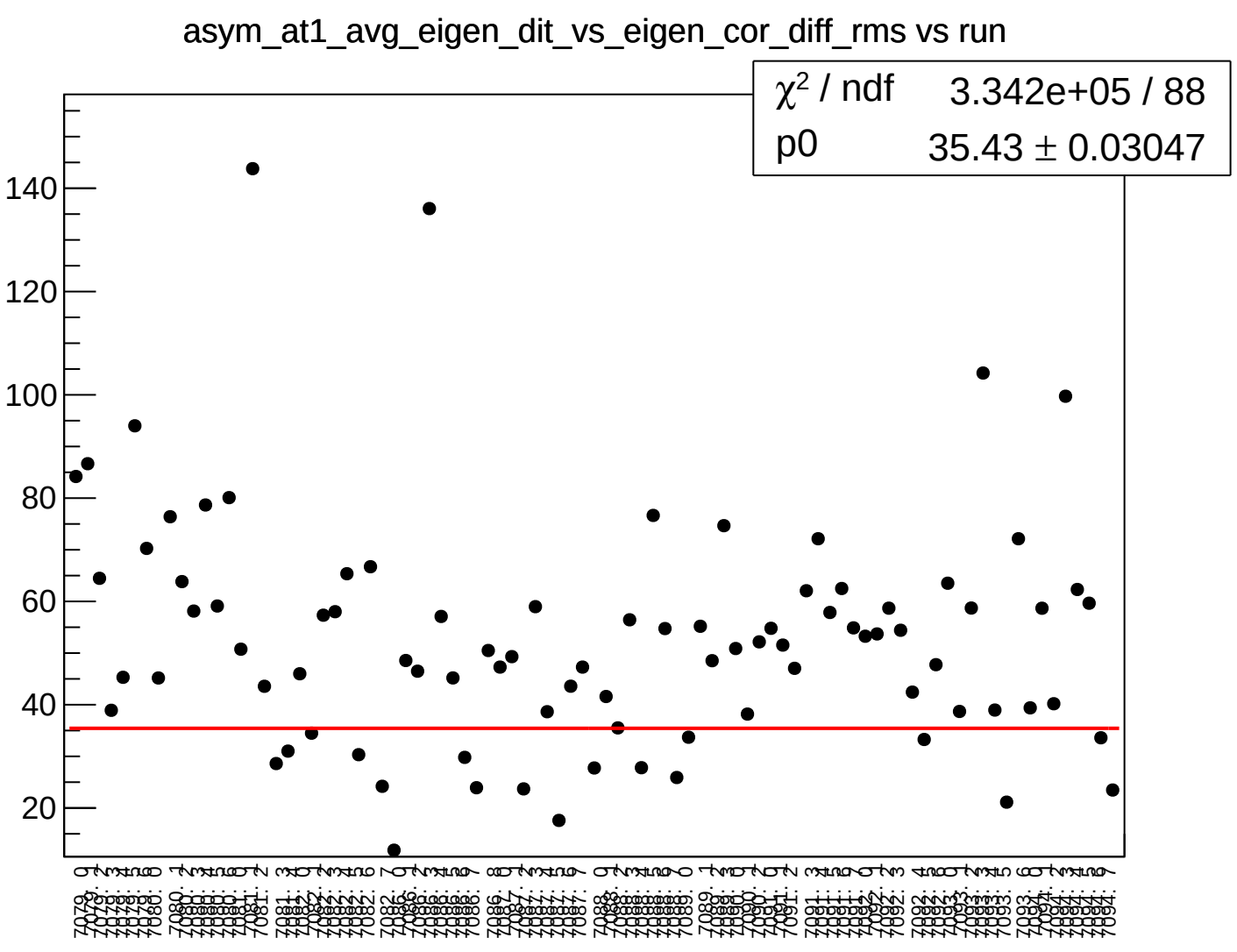

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.02 / 88
p0 −2.054e−06 ± 1.781e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −182.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.004716
Std Dev 0.8933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

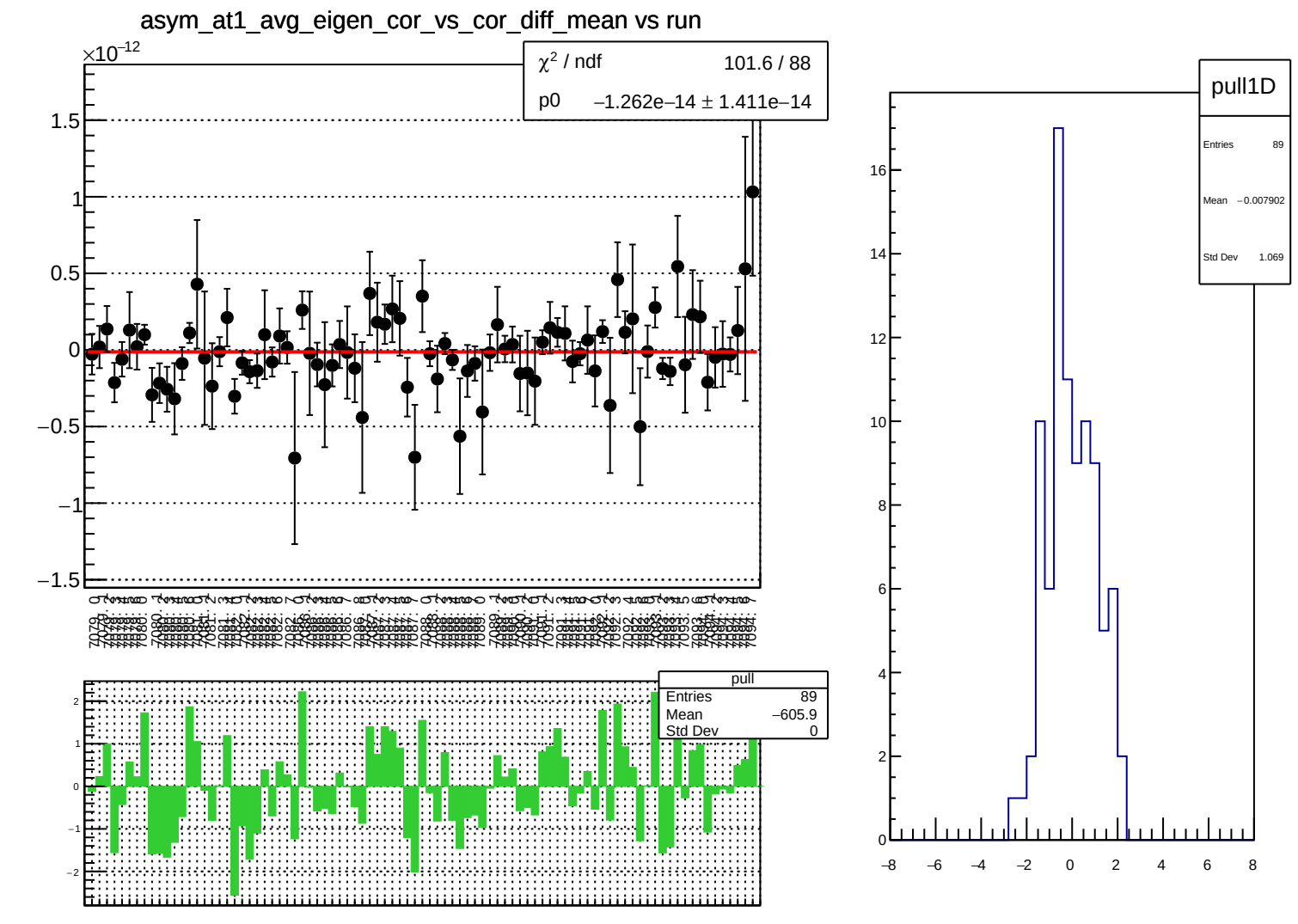

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.48e+05 / 88
p0 0.001562 ± 1.26e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

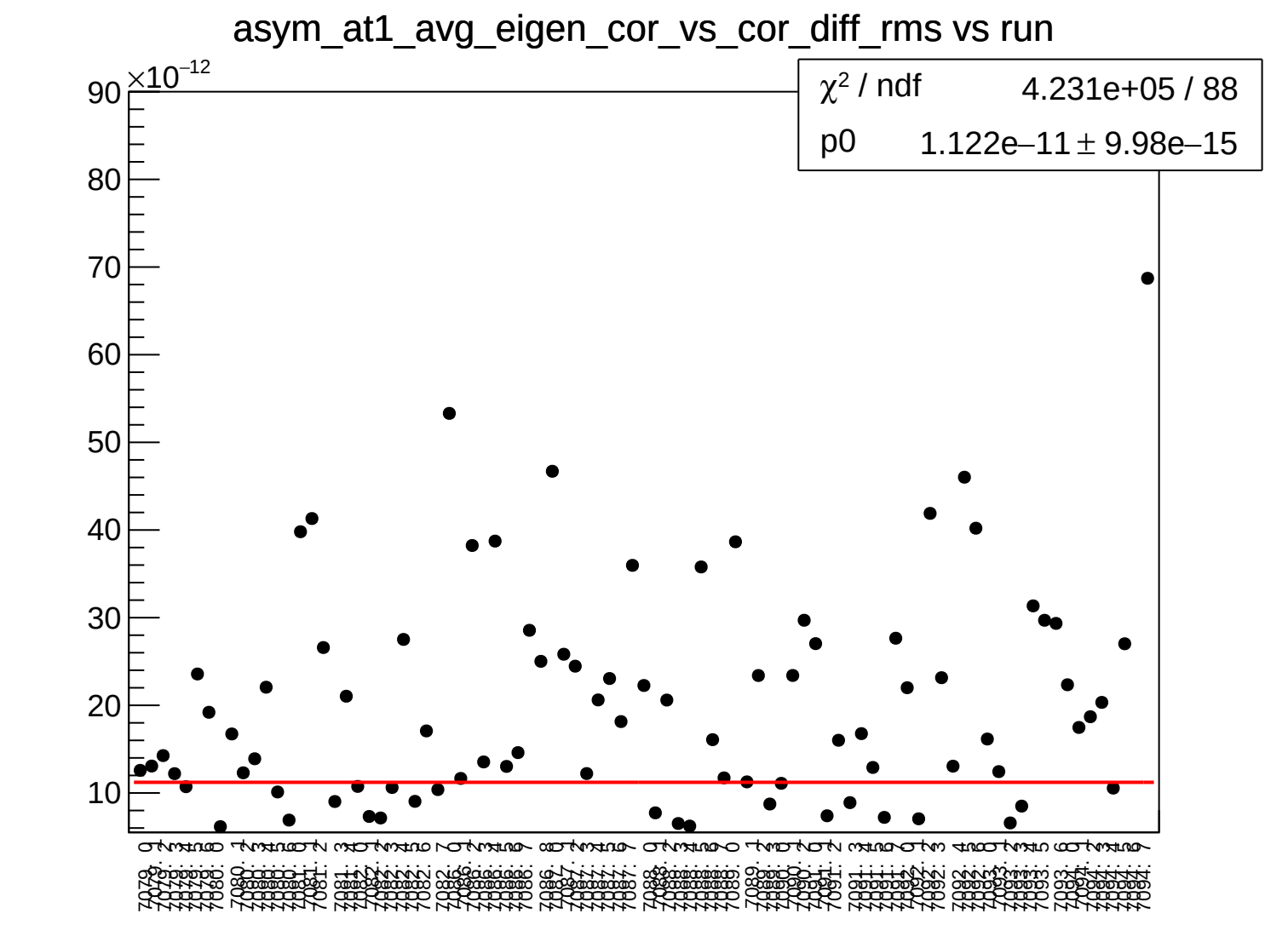

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.61 / 88
p0 0.01574 ± 0.04309
pull
Entries 89
Mean 106
Std Dev 0
pull1D
Entries 89
Mean 0.07282
Std Dev 1.017

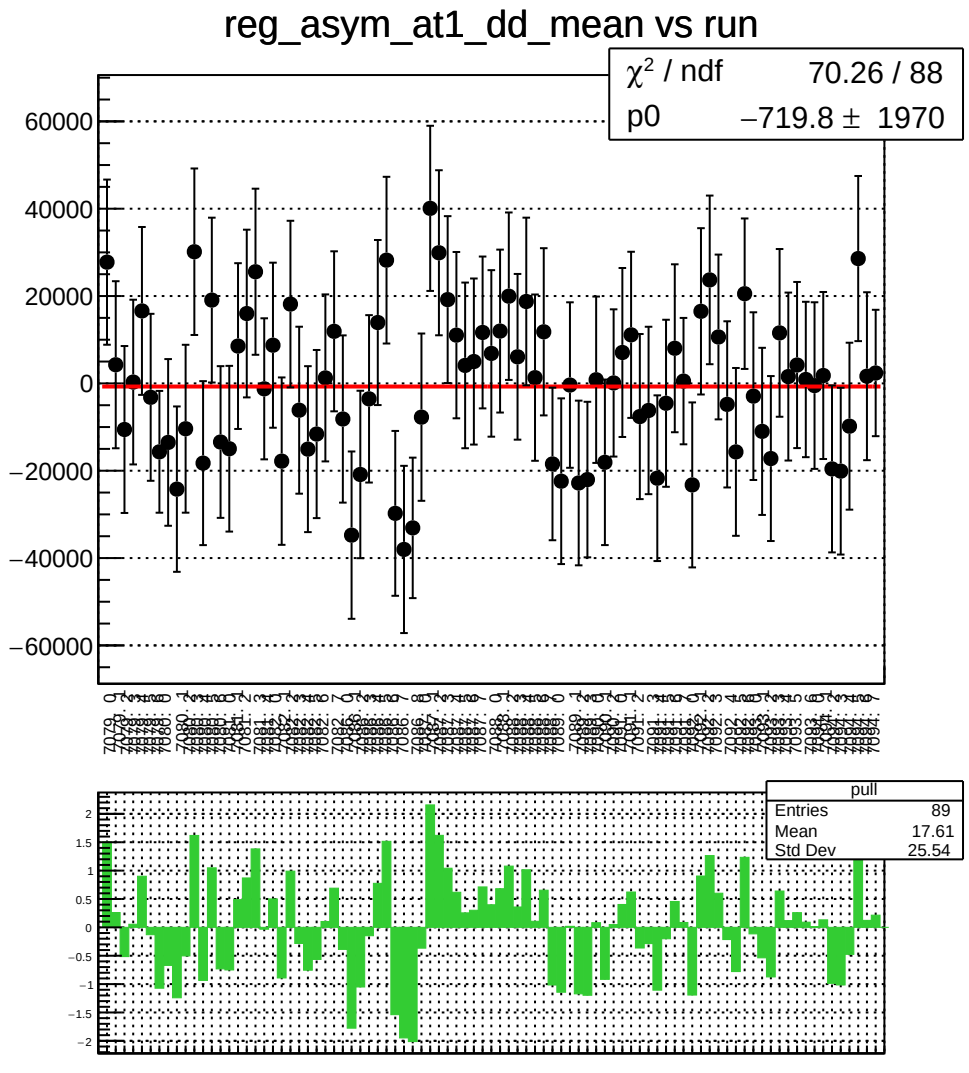

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.342e+05 / 88
p0 35.43 ± 0.03047
140
120
100
80
60
40
20

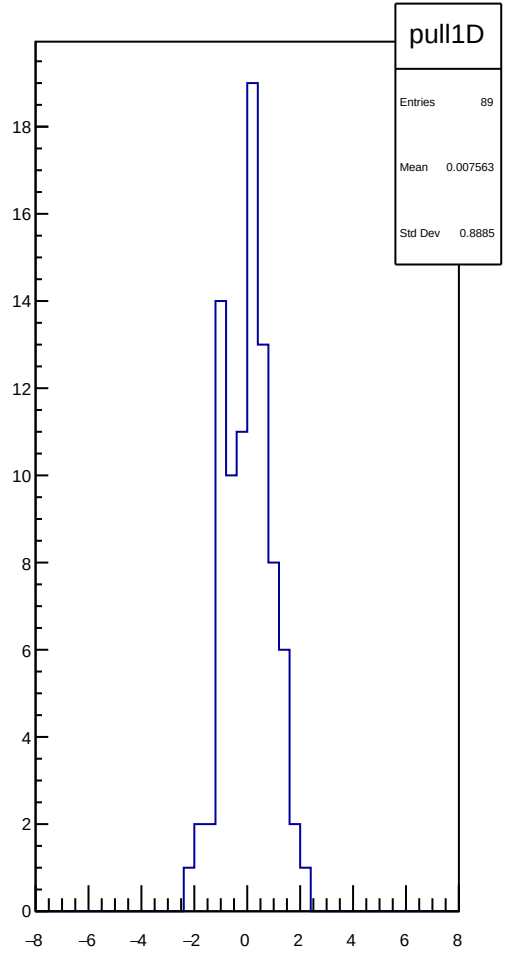

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.61 / 88
p0 0.01574 ± 0.04309
pull
Entries 89
Mean 106
Std Dev 0
pull1D
Entries 89
Mean 0.07282
Std Dev 1.017

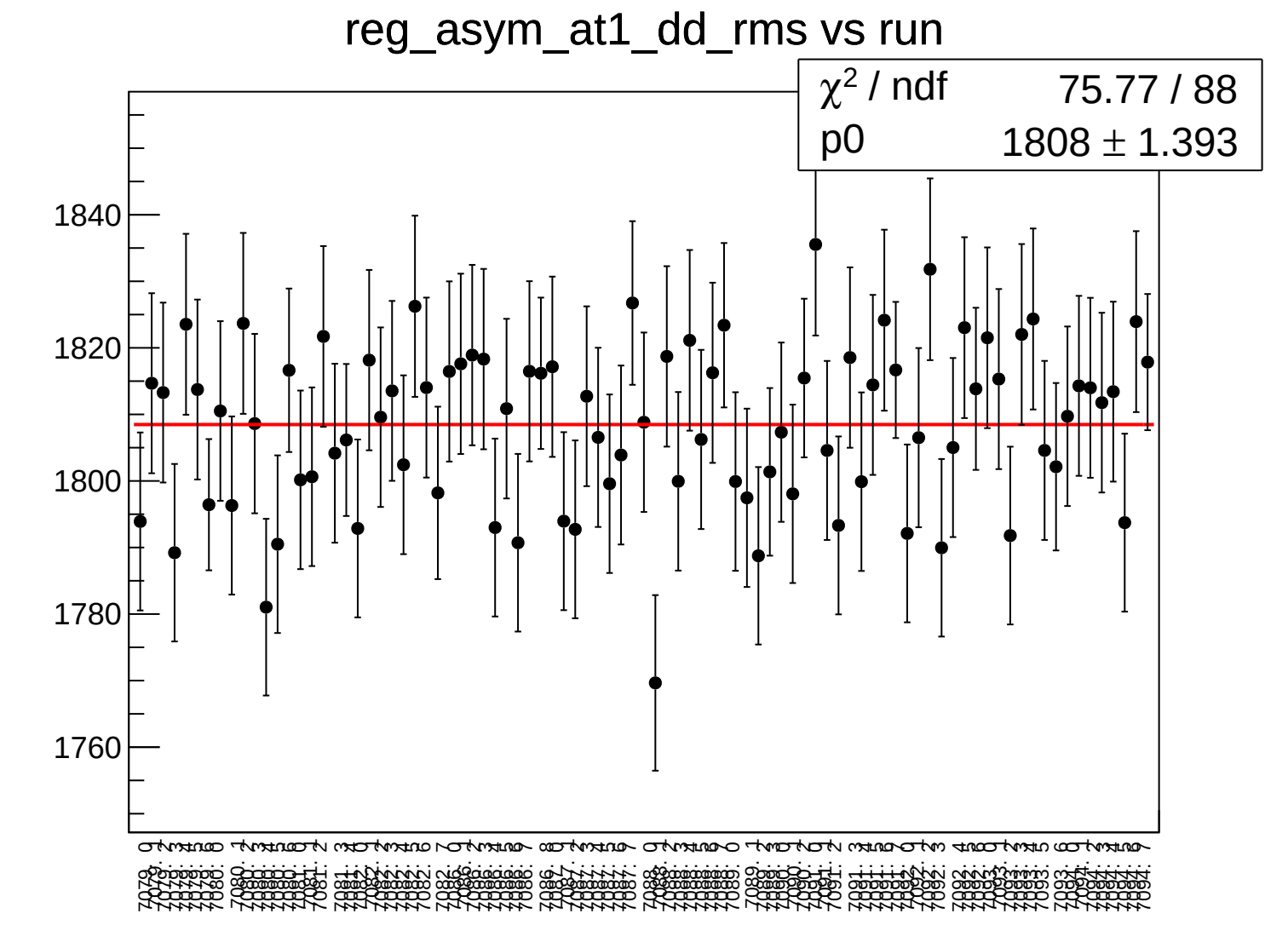

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.342e+05 / 88
p0 35.43 ± 0.03047
140
120
100
80
60
40
20

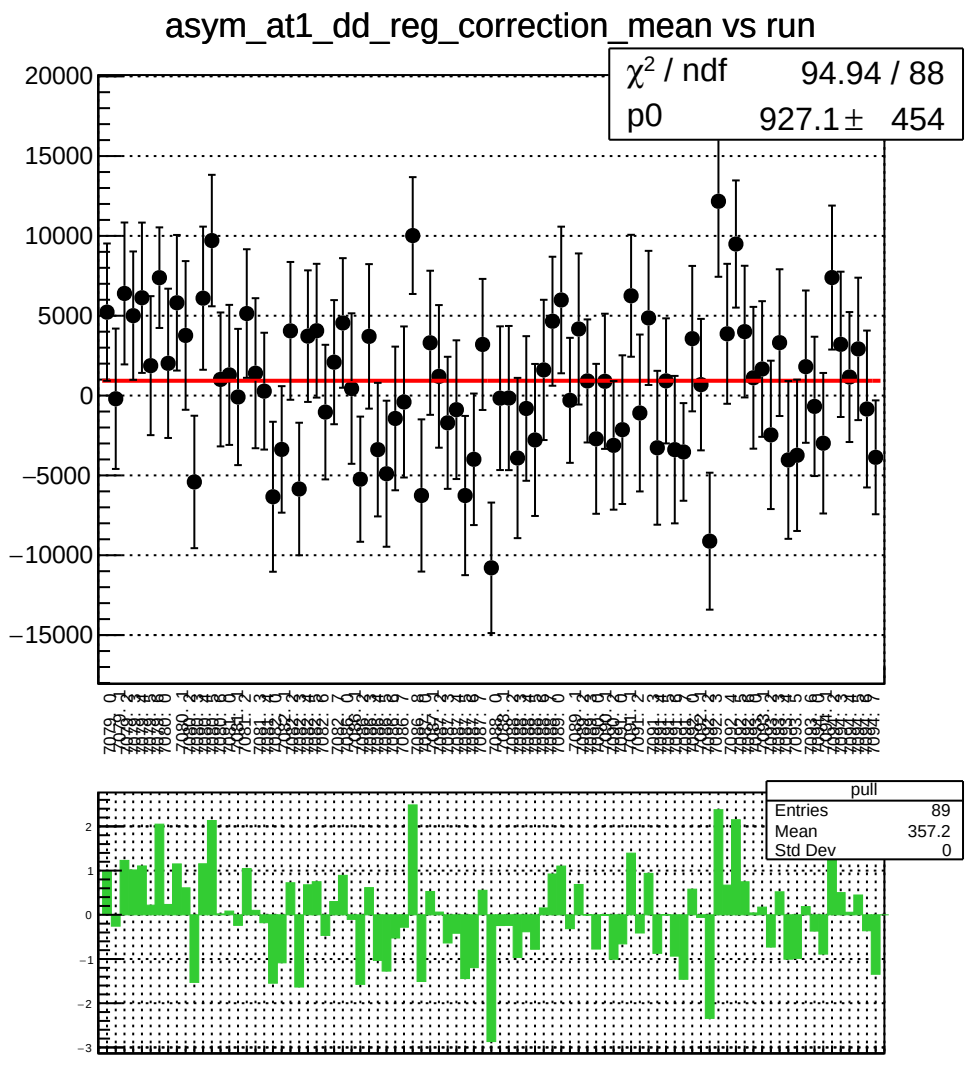

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.6 / 88
p0 −1.262e−14 ± 1.411e−14
pull
Entries 89
Mean −605.9
Std Dev 0
pull1D
Entries 89
Mean −0.007902
Std Dev 1.069

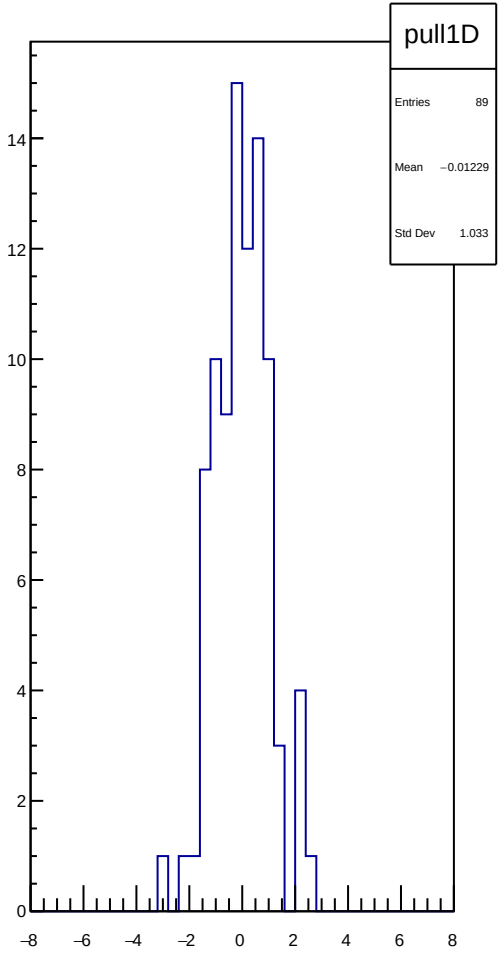

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
90
80
70
60
50
40
30
20
10
χ² / ndf 4.231e+05 / 88
p0 1.122e−11 ± 9.98e−15

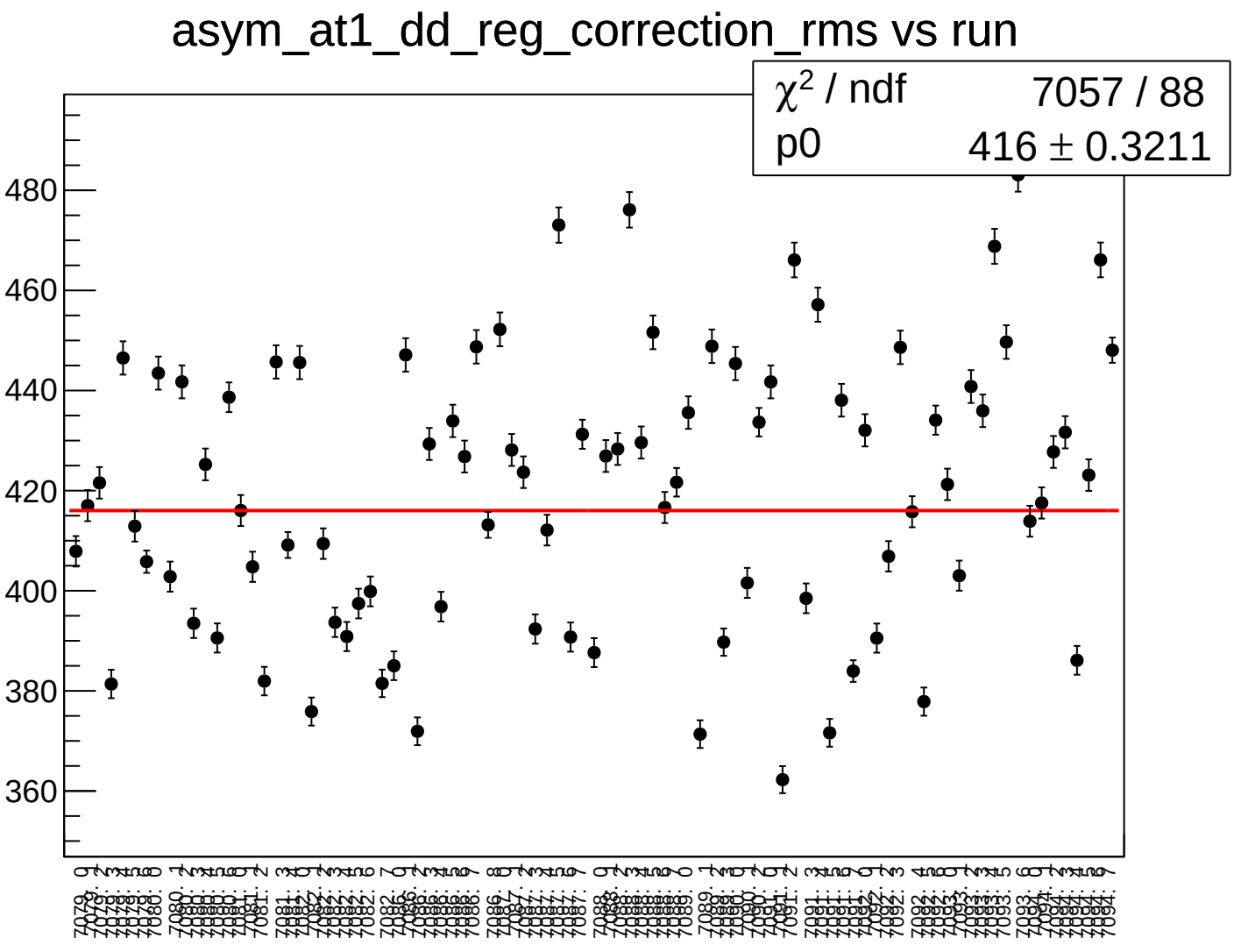

reg_asym_at1_dd_mean vs run
χ² / ndf 70.26 / 88
p0 −719.8 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 17.61
Std Dev 25.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

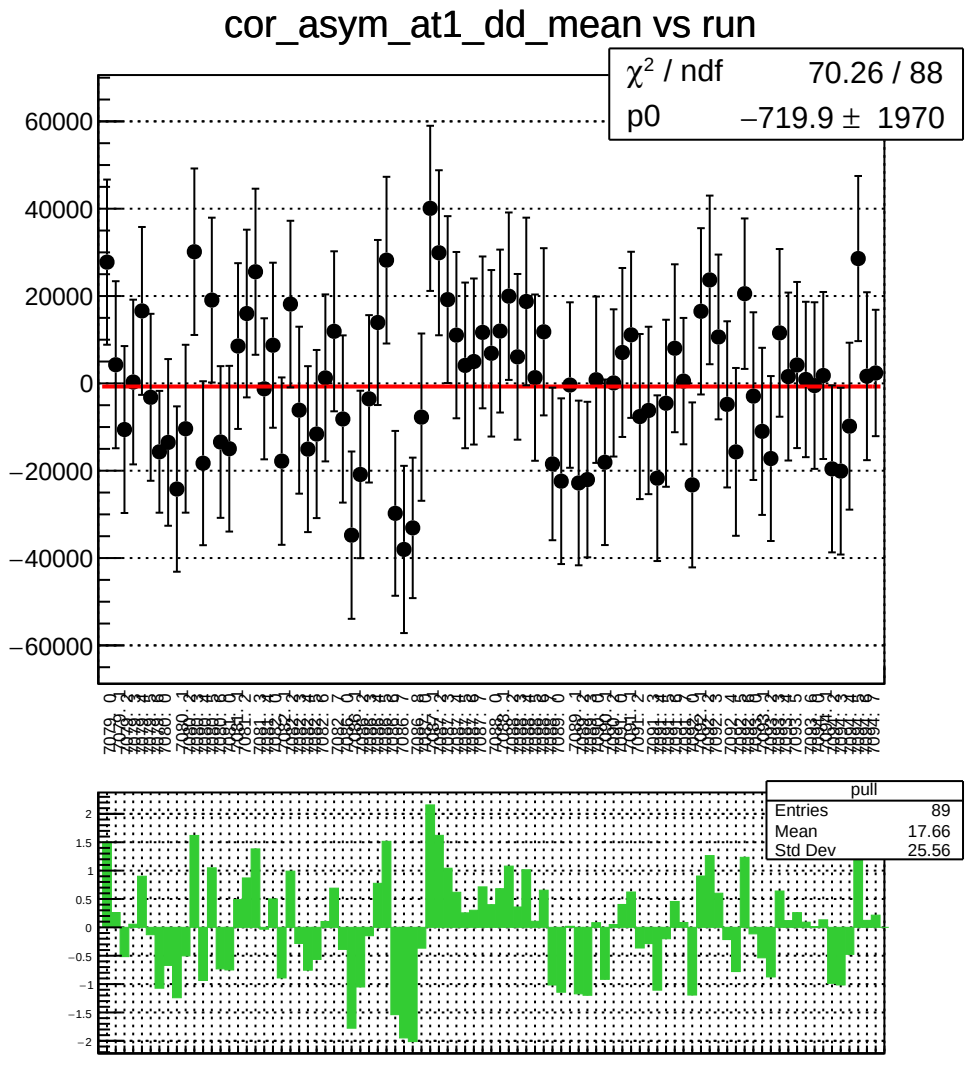

pull1D
Entries 89
Mean 0.007563
Std Dev 0.8885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

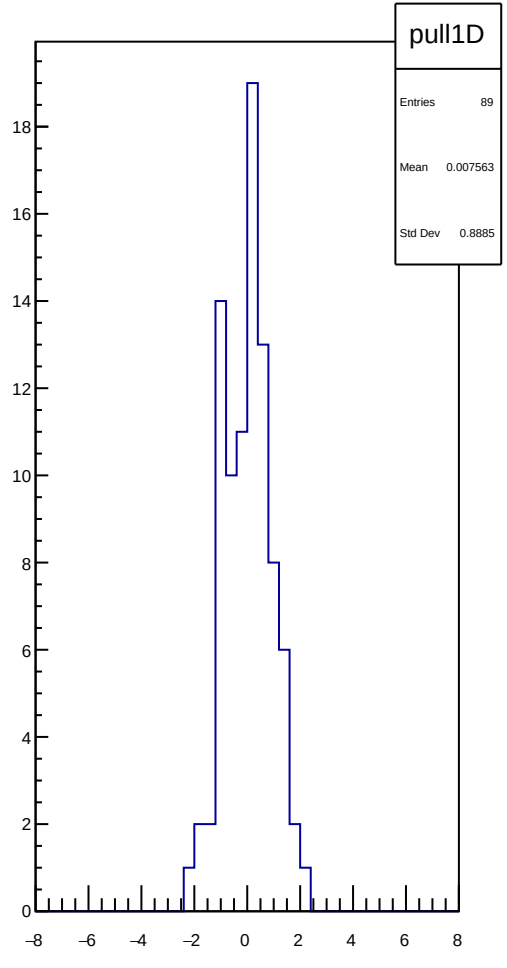

reg_asym_at1_dd_rms vs run
χ^2 / ndf 75.77 / 88
p0 1808 ± 1.393
1840
1820
1800
1780
1760

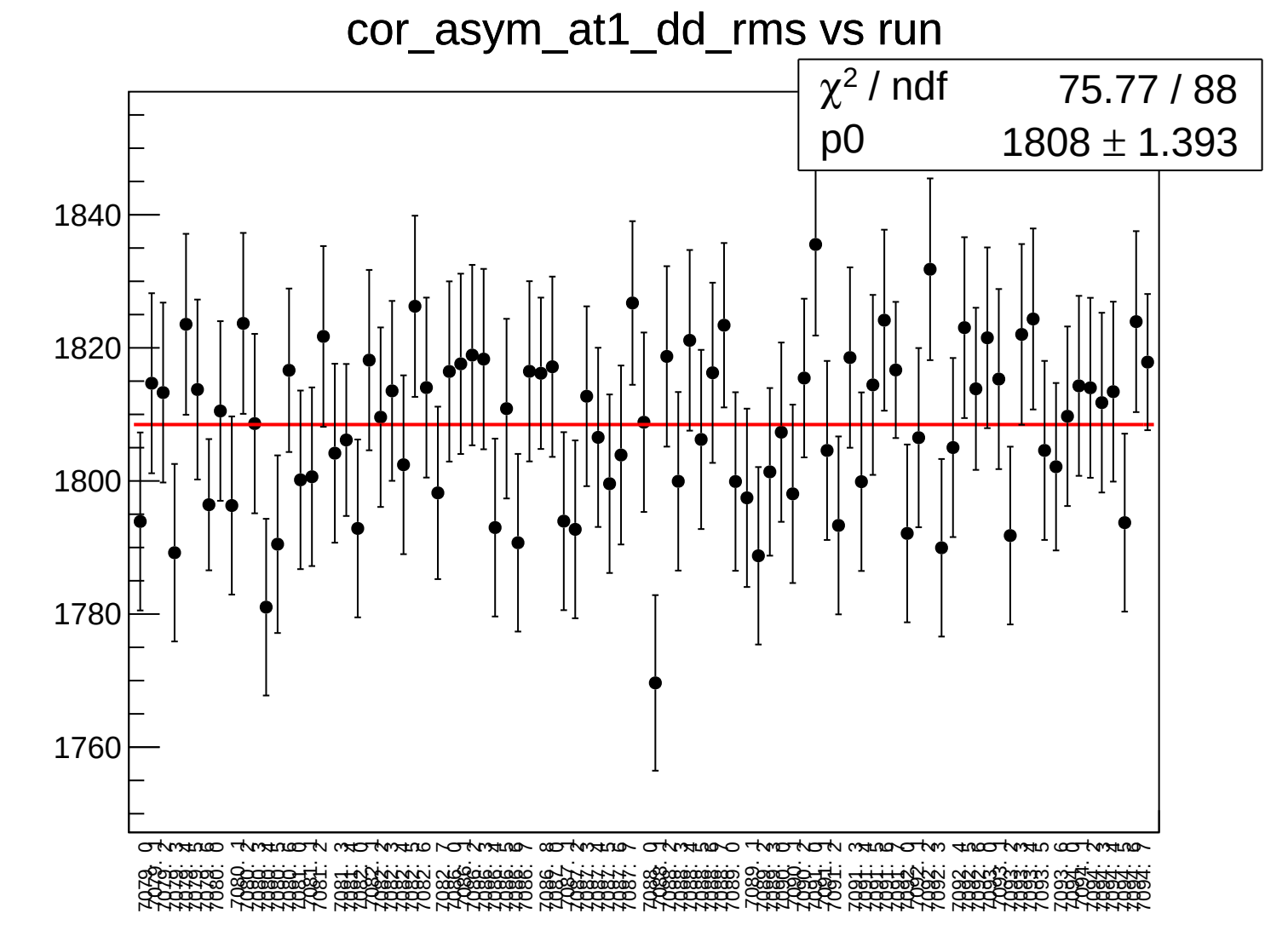

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 94.94 / 88
p0 927.1 ± 454
pull
Entries 89
Mean 357.2
Std Dev 0

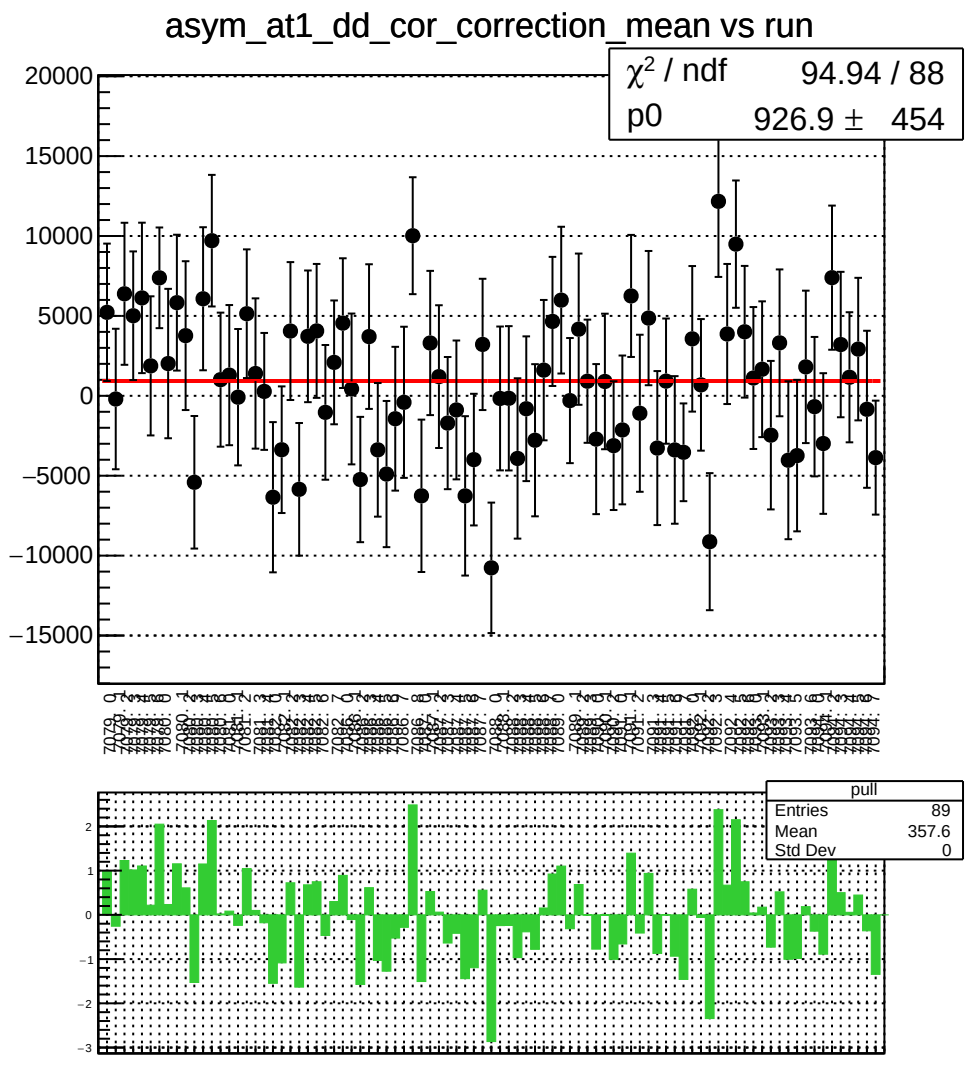

pull1D
Entries 89
Mean −0.01229
Std Dev 1.033

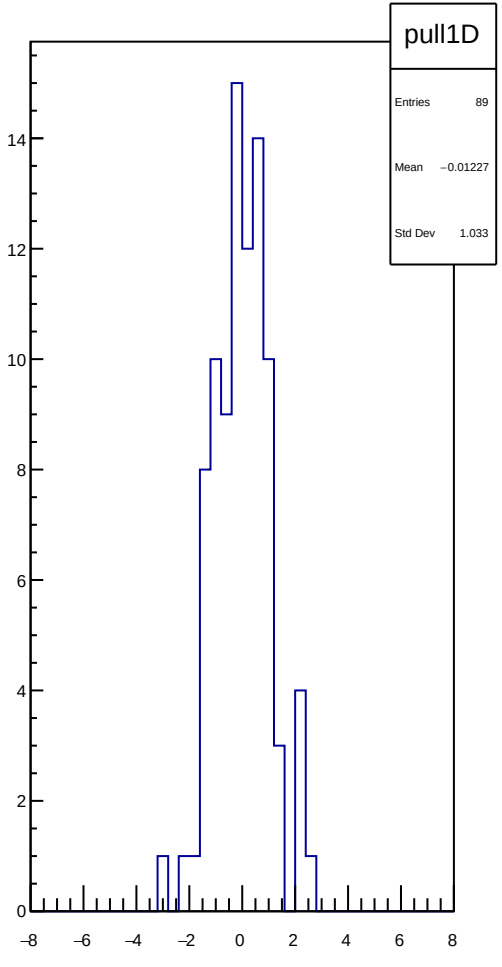

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 7057 / 88
p0 416 ± 0.3211
480
460
440
420
400
380
360

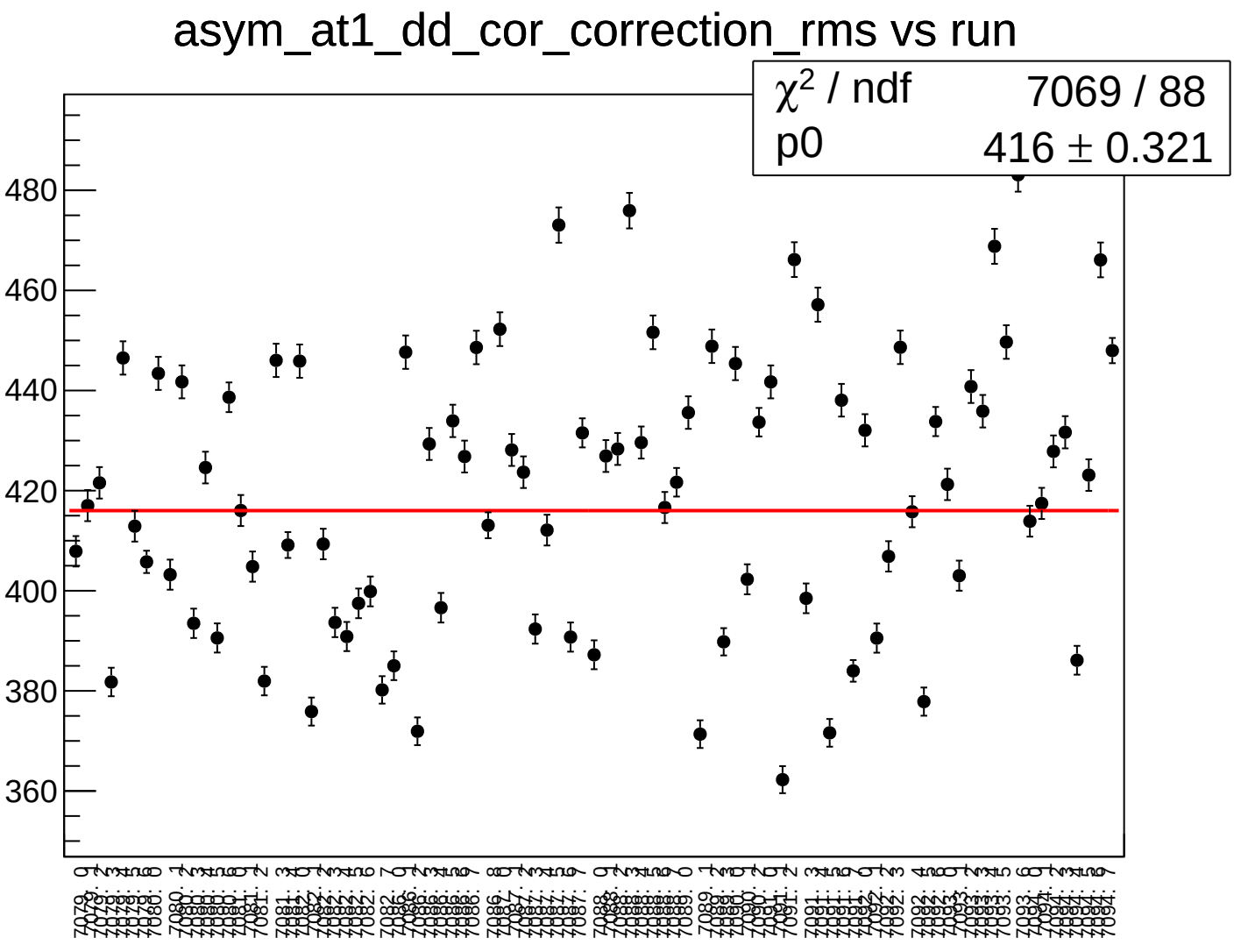

cor_asym_at1_dd_mean vs run
χ² / ndf 70.26 / 88
p0 −719.9 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 17.66
Std Dev 25.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

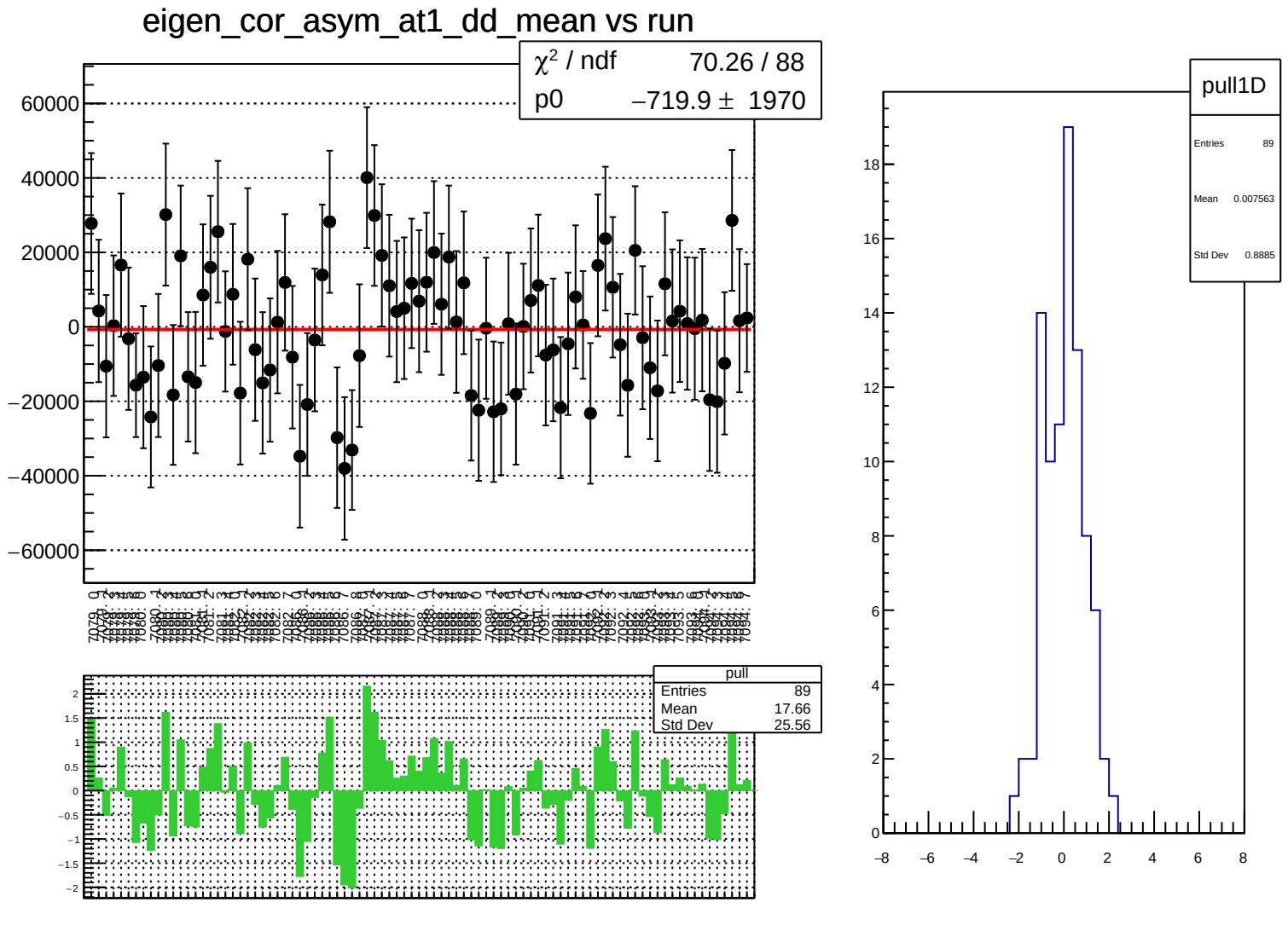

pull1D
Entries 89
Mean 0.007563
Std Dev 0.8885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

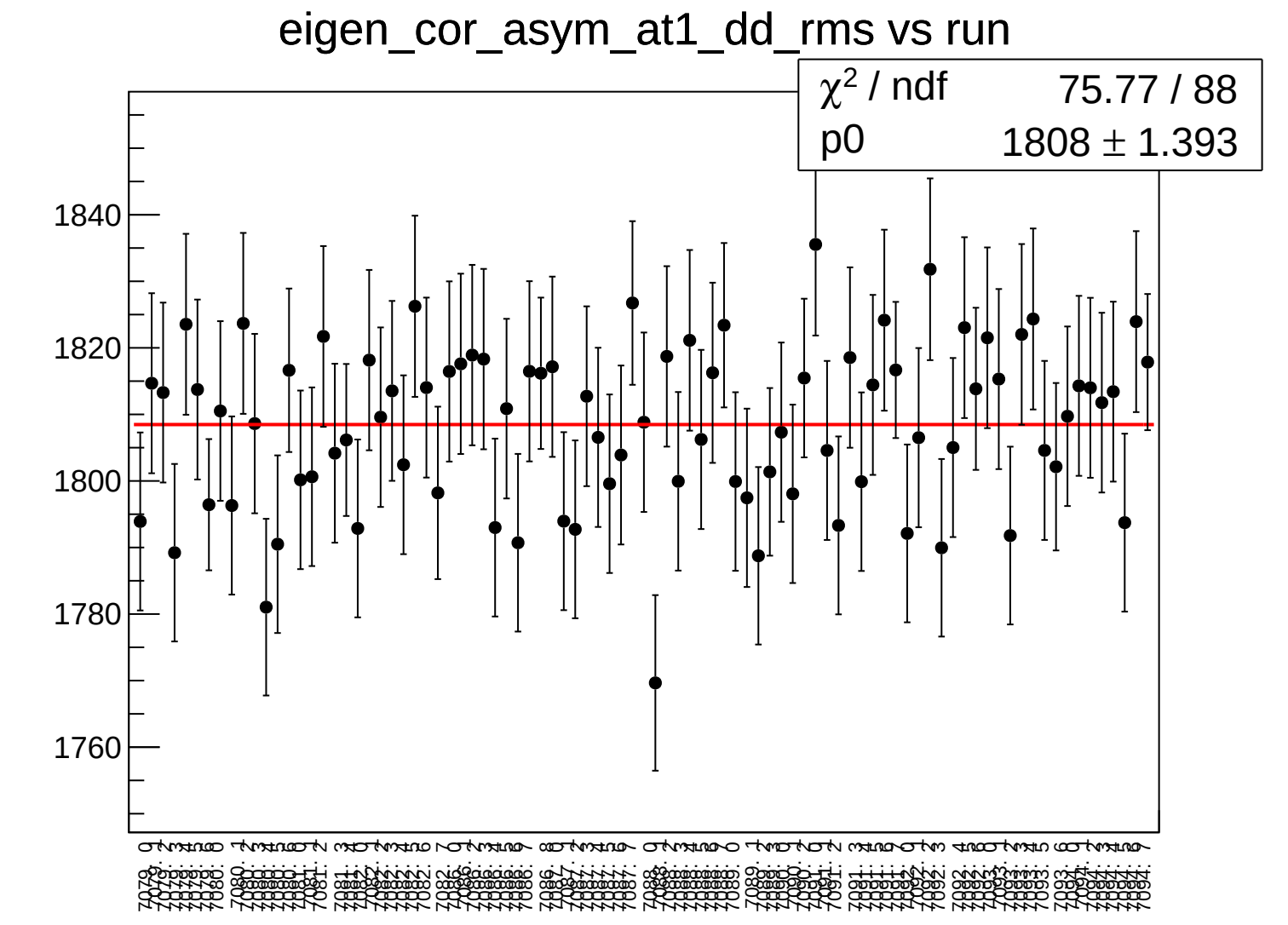

cor_asym_at1_dd_rms vs run
χ² / ndf 75.77 / 88
p0 1808 ± 1.393
1840
1820
1800
1780
1760

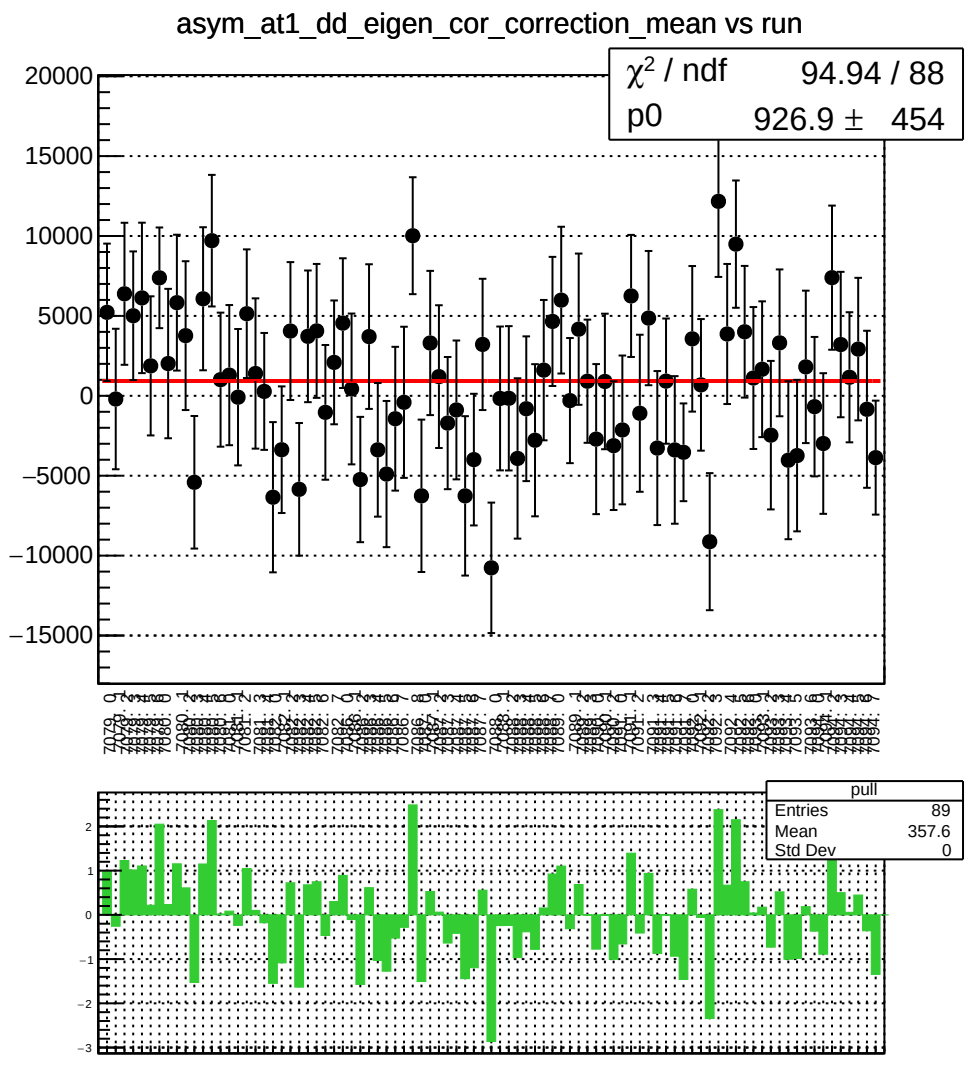

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 94.94 / 88
p0 926.9 ± 454
pull
Entries 89
Mean 357.6
Std Dev 0

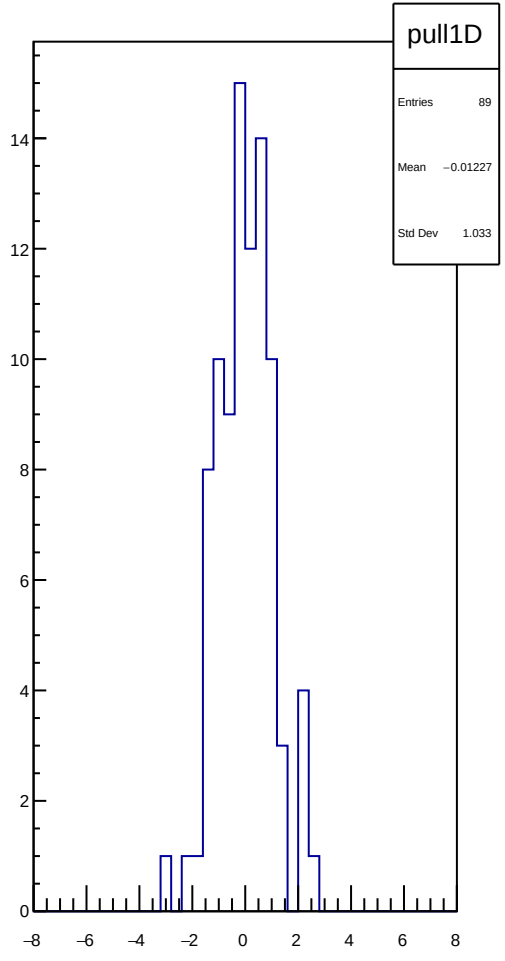

pull1D
Entries 89
Mean −0.01227
Std Dev 1.033

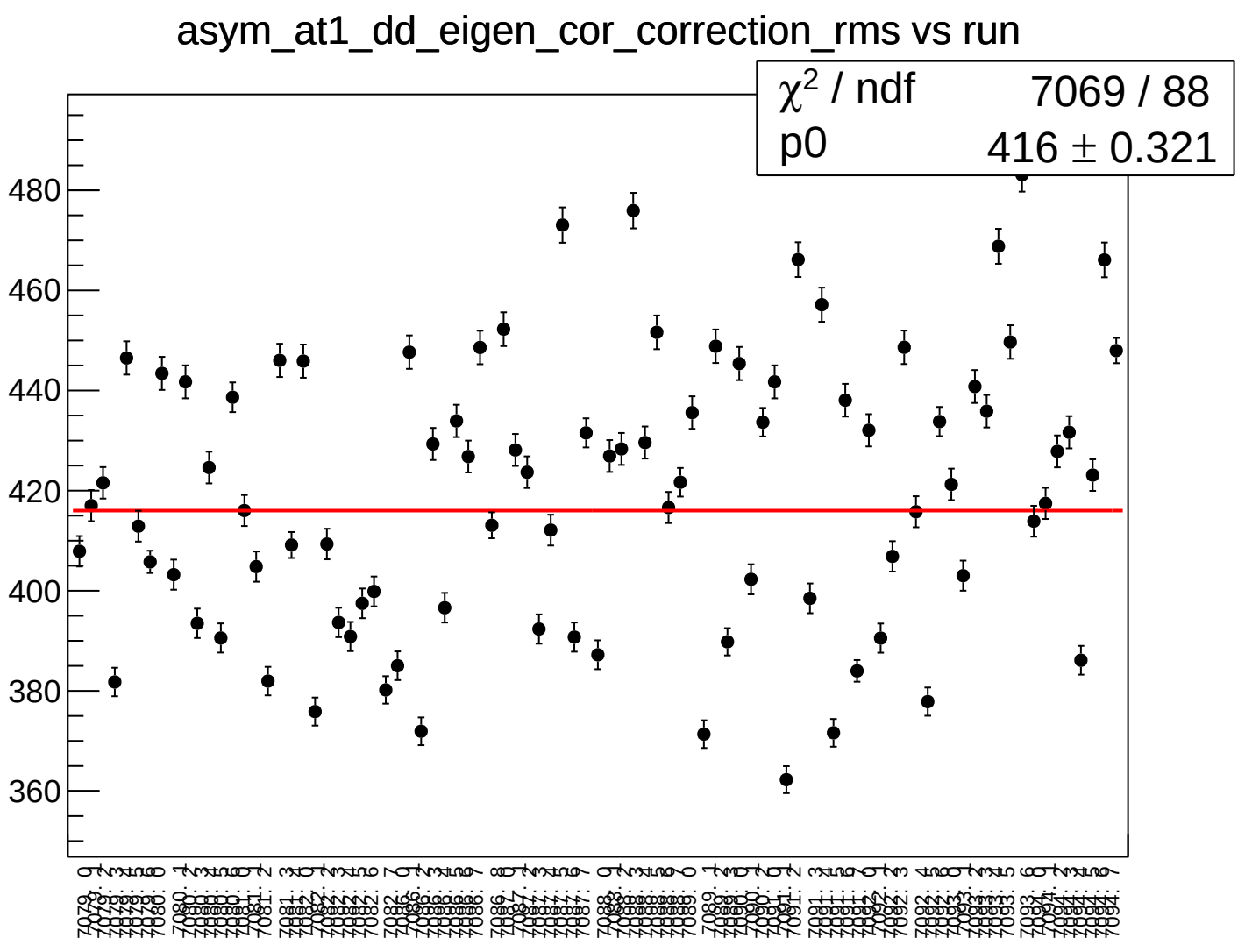

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 7069 / 88
p0 416 ± 0.321
480
460
440
420
400
380
360

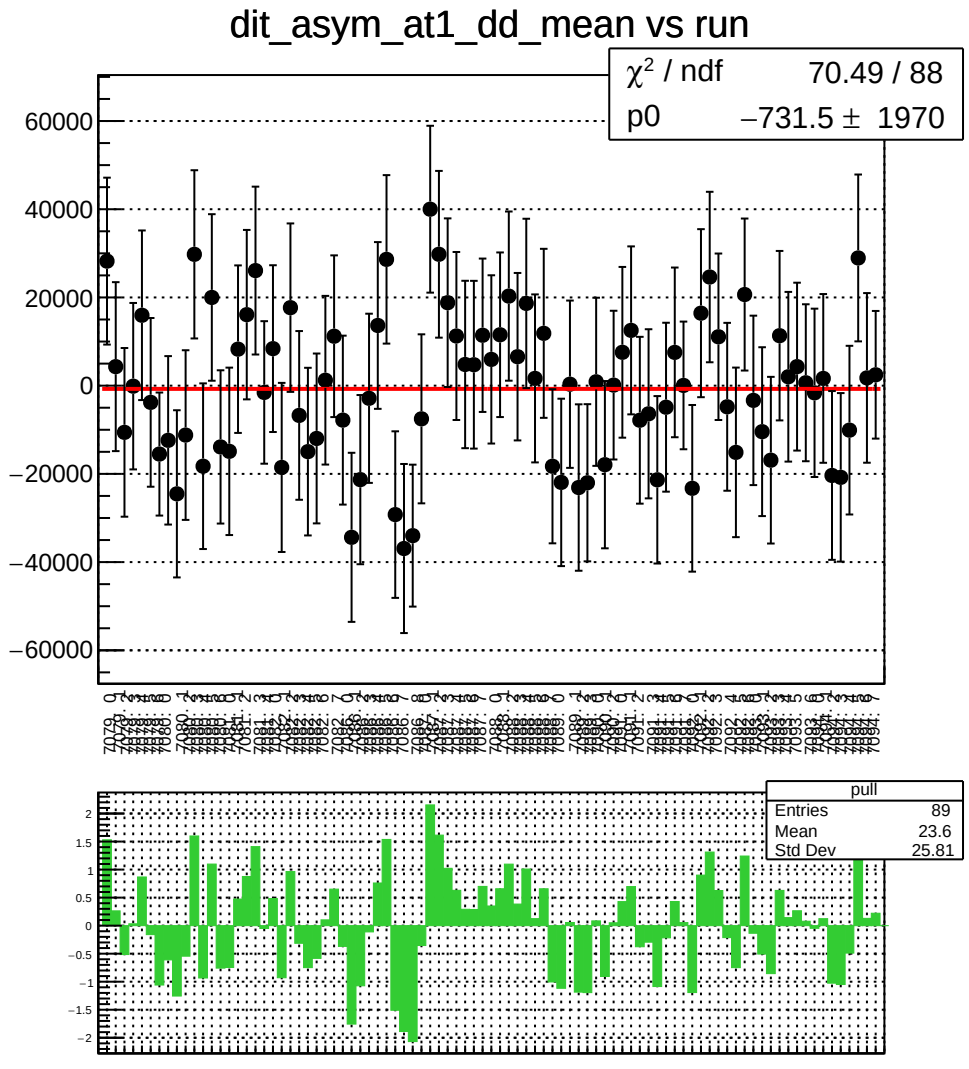

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 70.26 / 88
p0 −719.9 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 17.66
Std Dev 25.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.007563
Std Dev 0.8885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

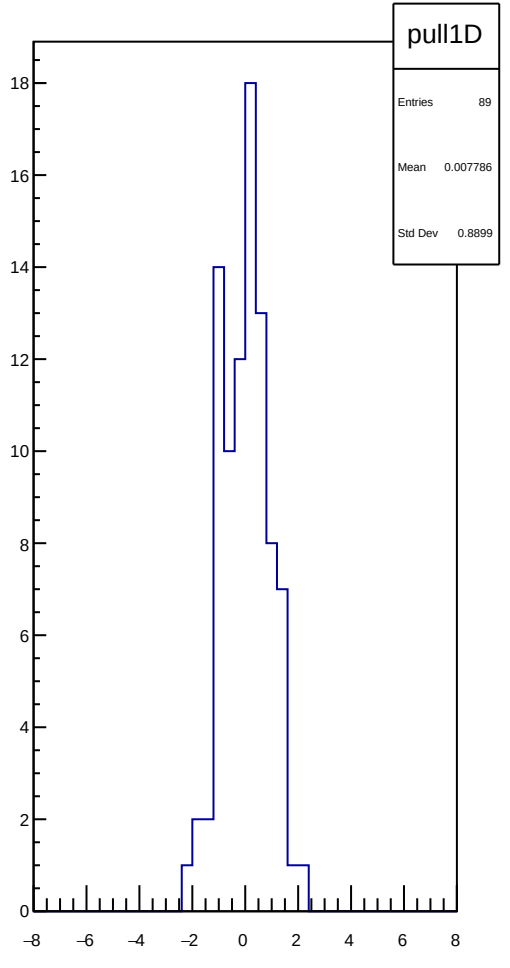

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 75.77 / 88
p0 1808 ± 1.393
1840
1820
1800
1780
1760

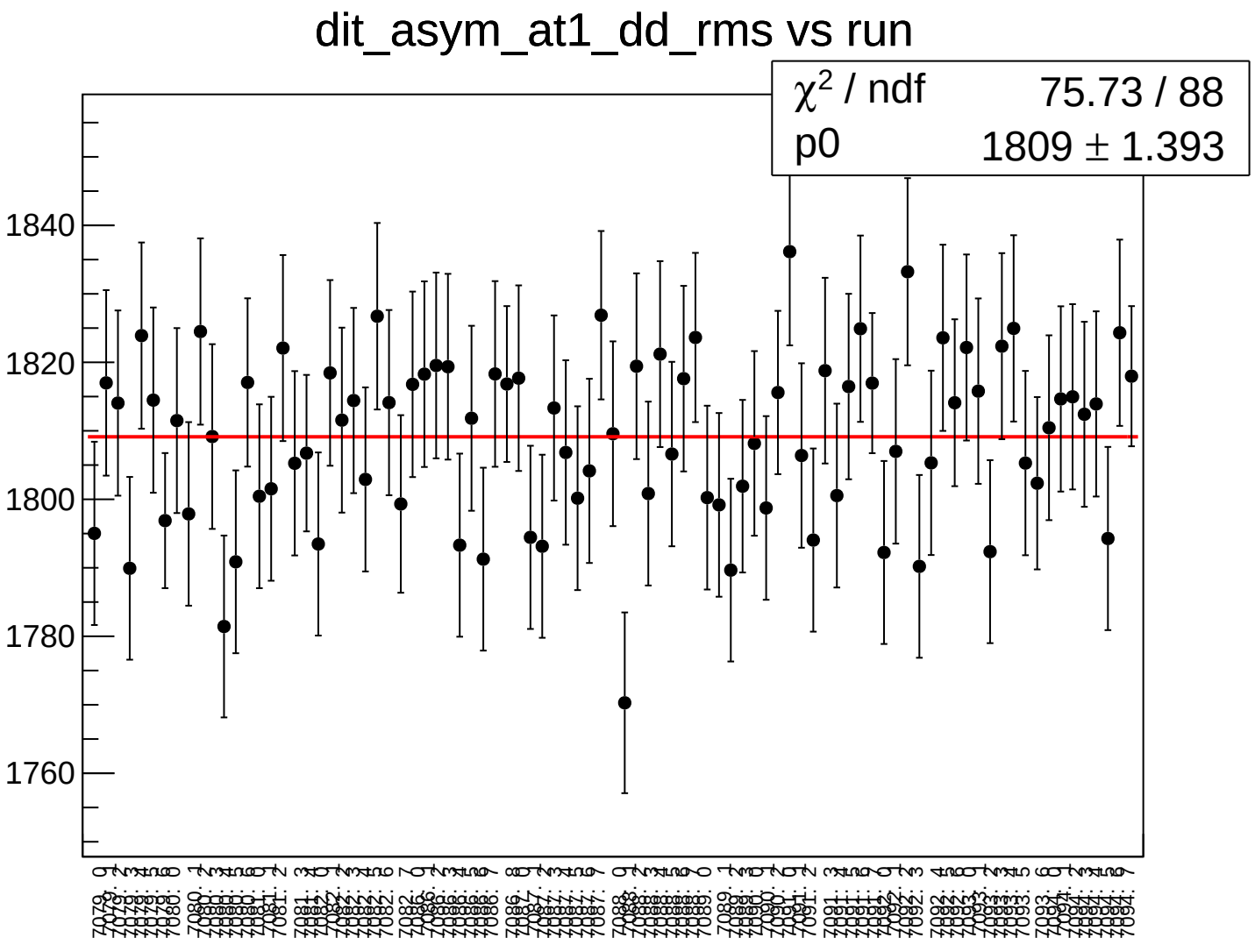

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.94 / 88
p0 926.9 ± 454
pull
Entries 89
Mean 357.6
Std Dev 0

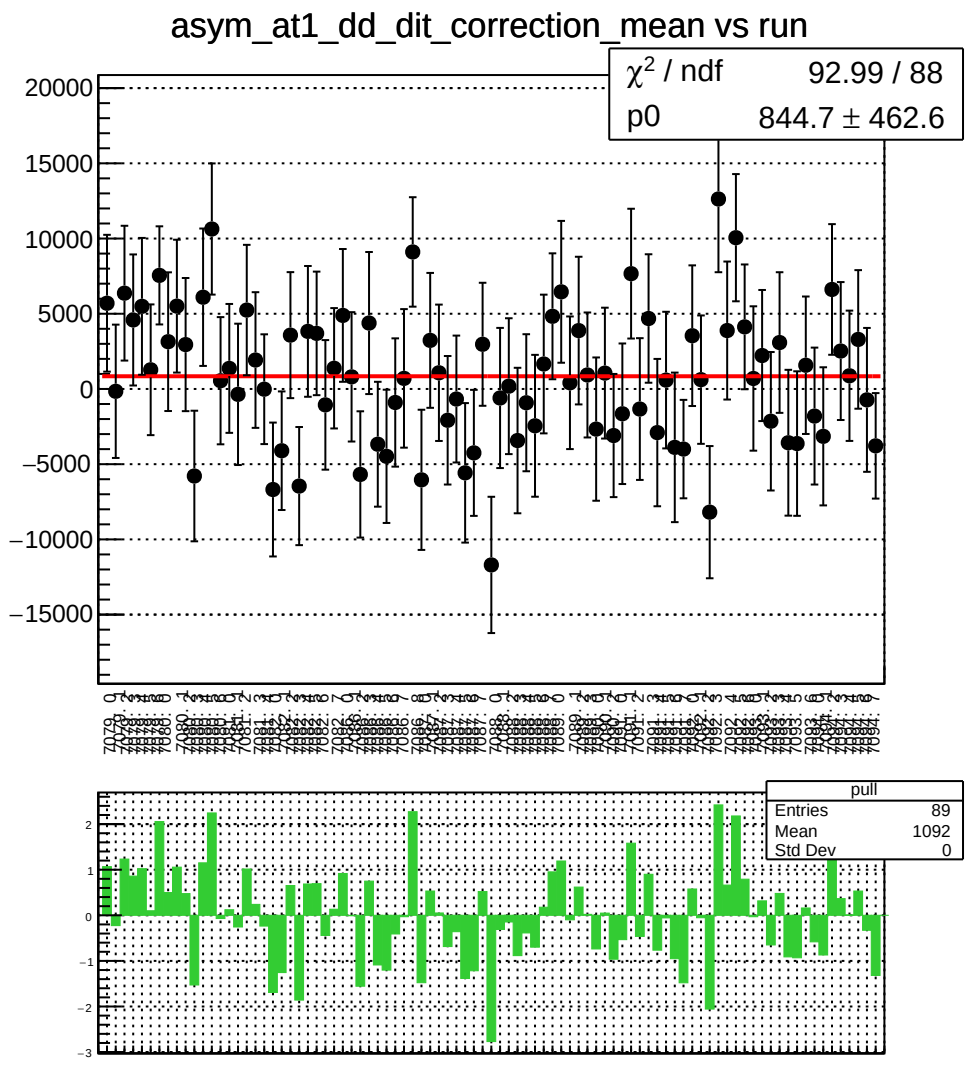

pull1D
Entries 89
Mean −0.01227
Std Dev 1.033

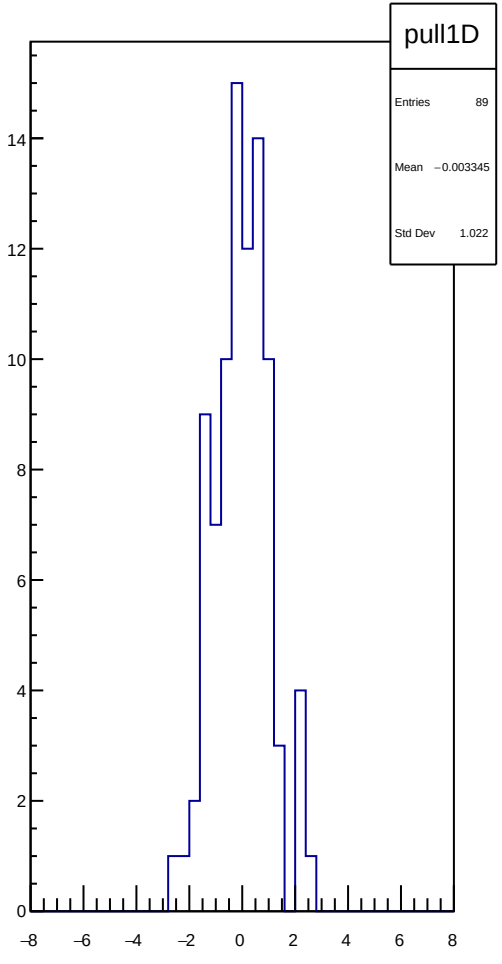

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 7069 / 88
p0 416 ± 0.321
480
460
440
420
400
380
360

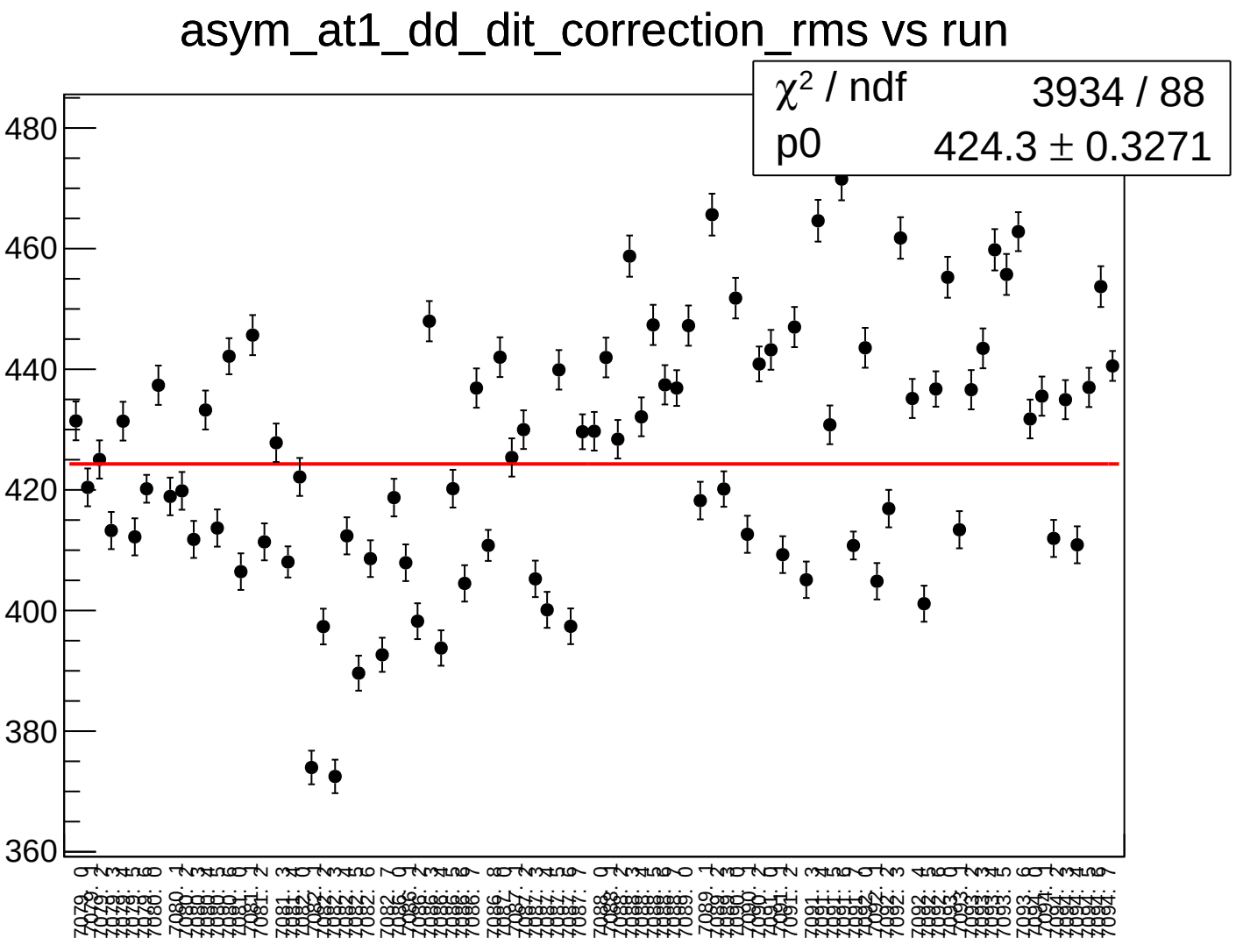

dit_asym_at1_dd_mean vs run
χ² / ndf 70.49 / 88
p0 −731.5 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 23.6
Std Dev 25.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

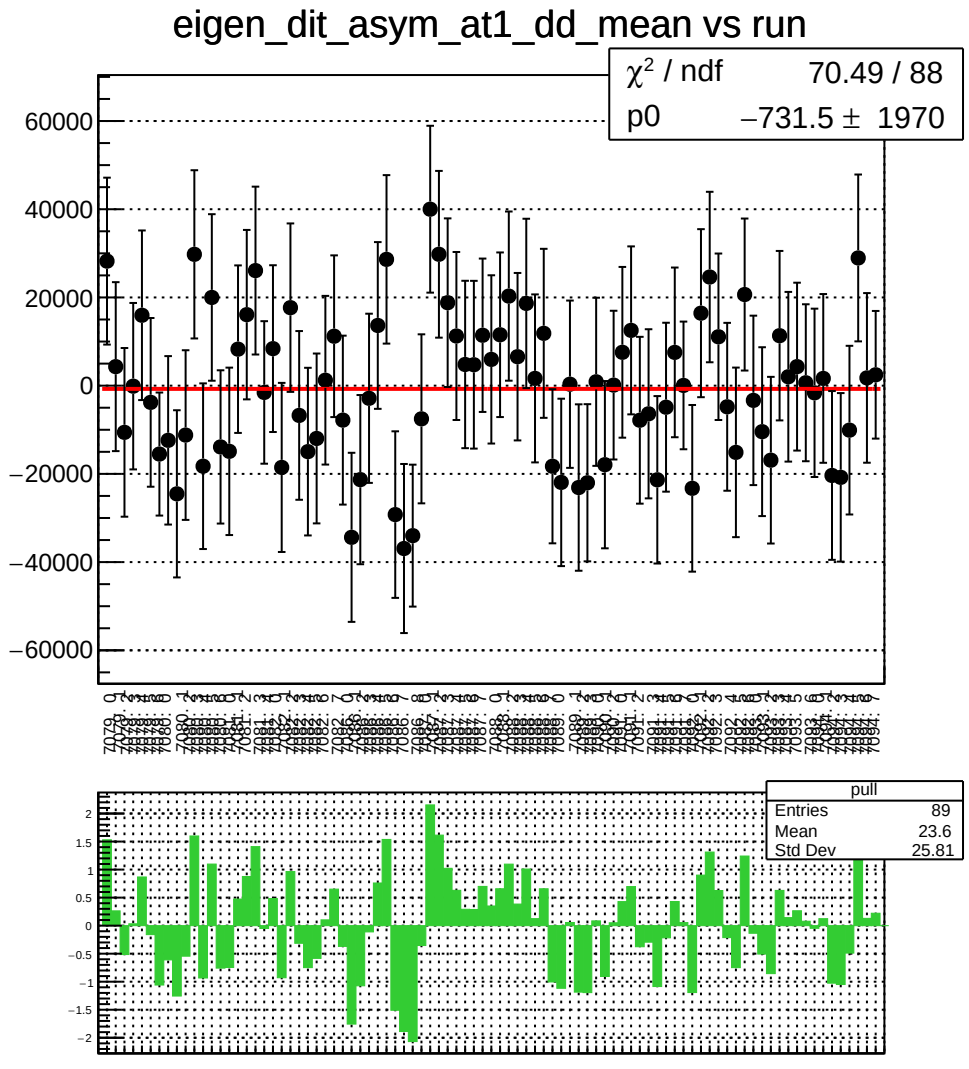

pull1D
Entries 89
Mean 0.007786
Std Dev 0.8899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

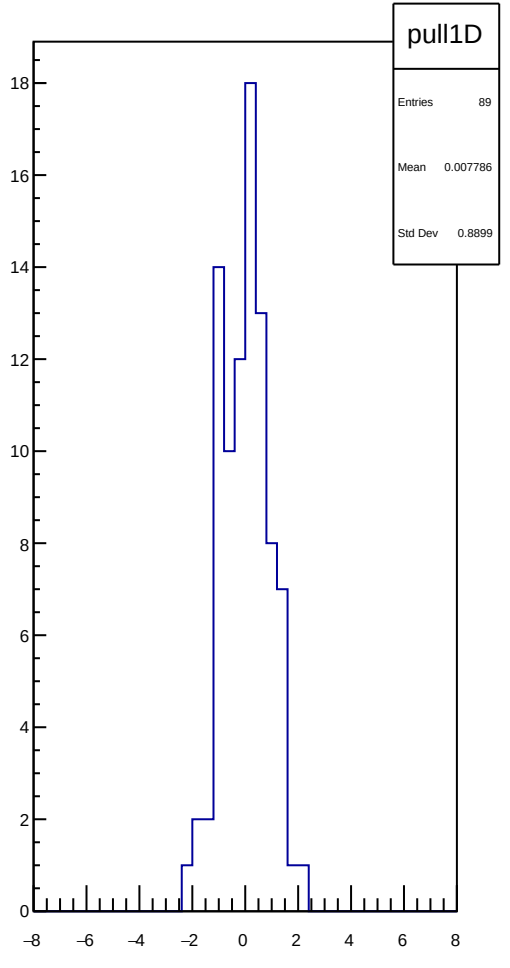

dit_asym_at1_dd_rms vs run
χ² / ndf 75.73 / 88
p0 1809 ± 1.393
1840
1820
1800
1780
1760

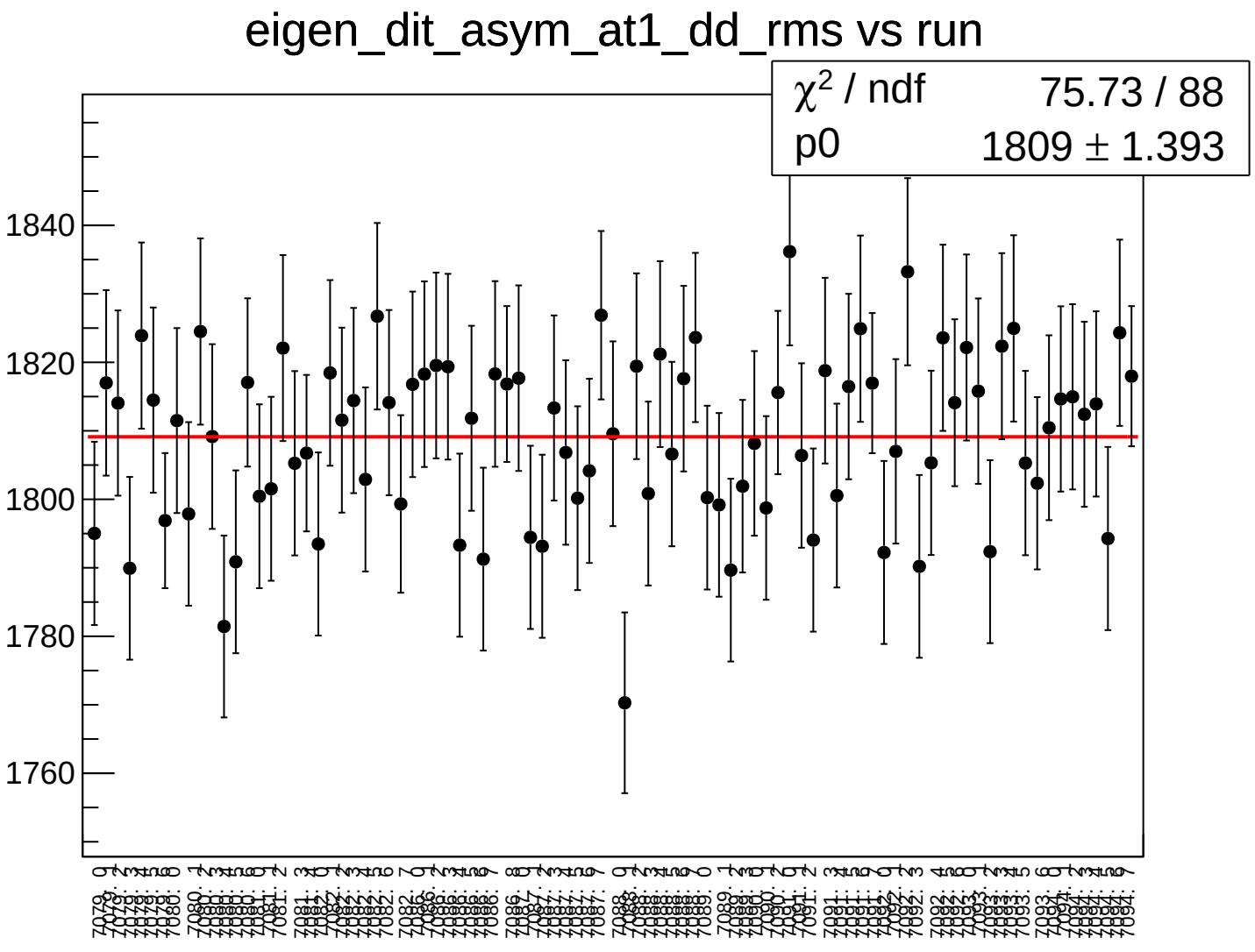

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 92.99 / 88
p0 844.7 ± 462.6
pull
Entries 89
Mean 1092
Std Dev 0

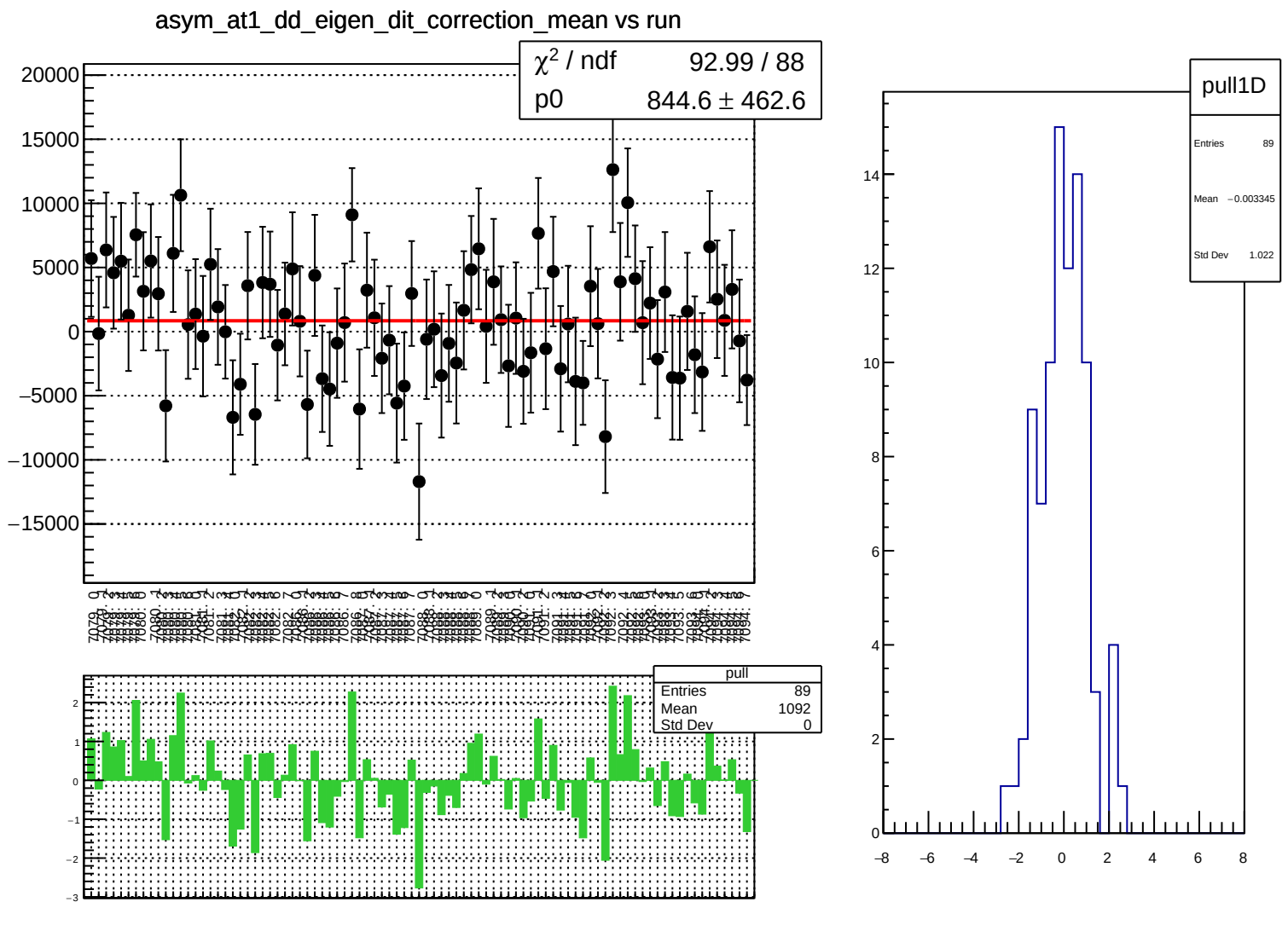

pull1D
Entries 89
Mean −0.003345
Std Dev 1.022

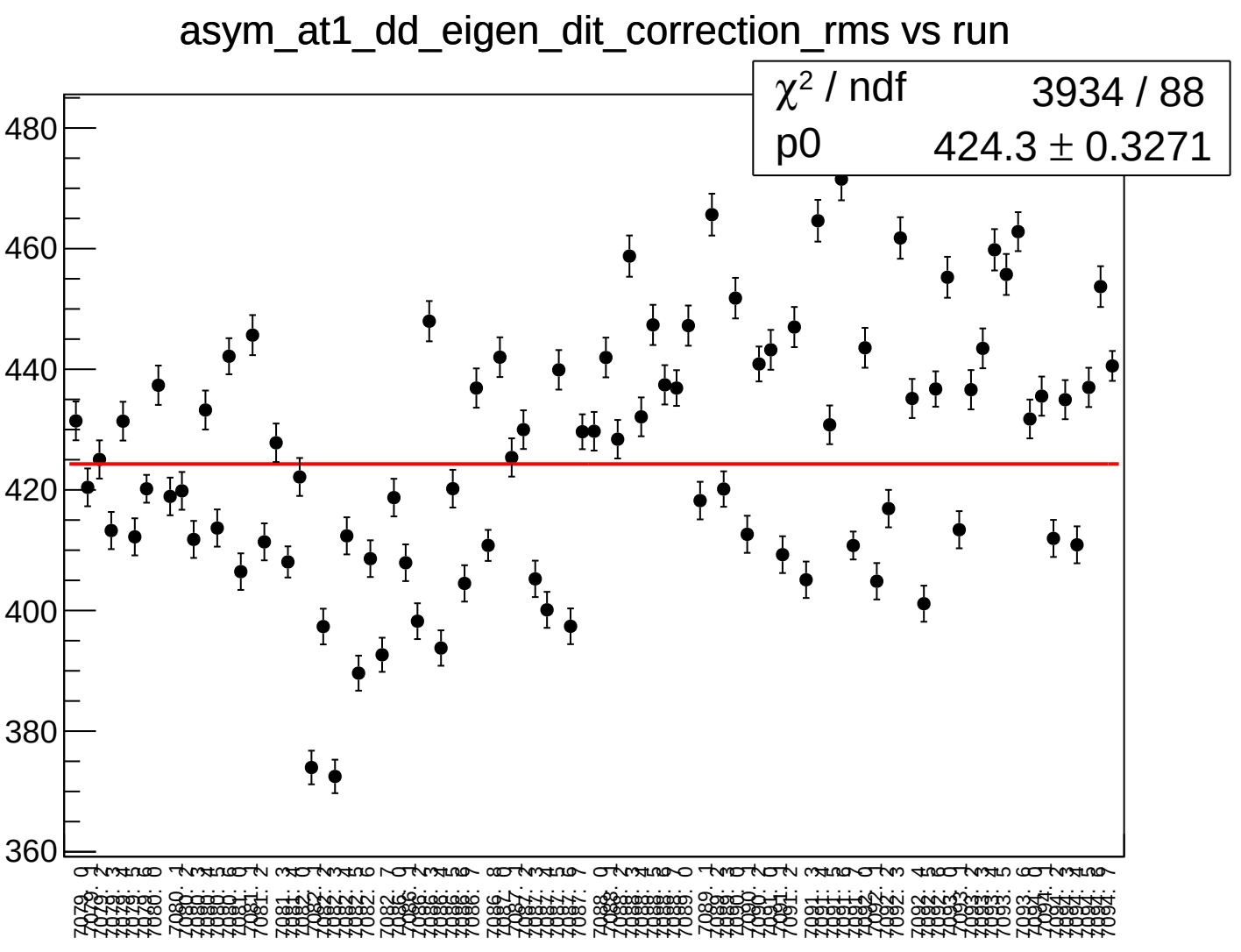

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 3934 / 88
p0 424.3 ± 0.3271
480
460
440
420
400
380
360

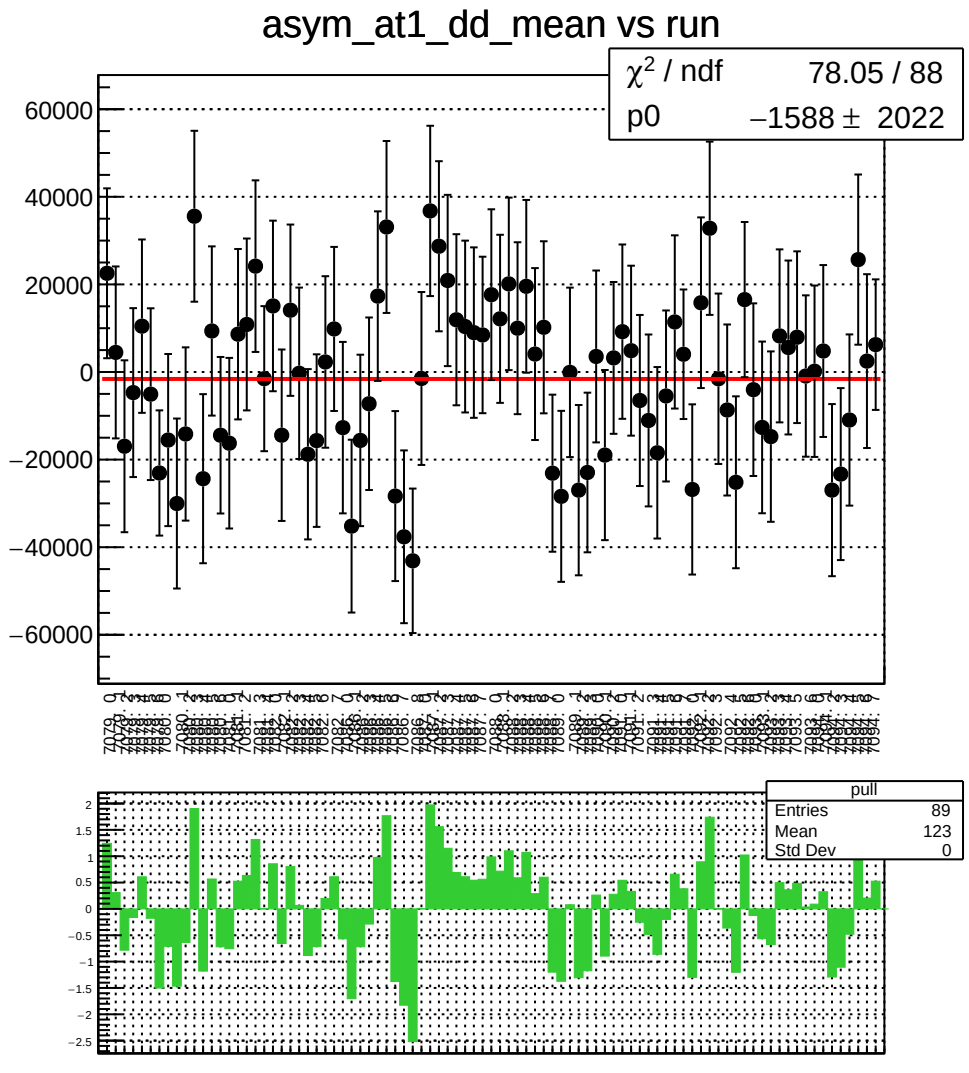

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 70.49 / 88
p0 −731.5 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 23.6
Std Dev 25.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

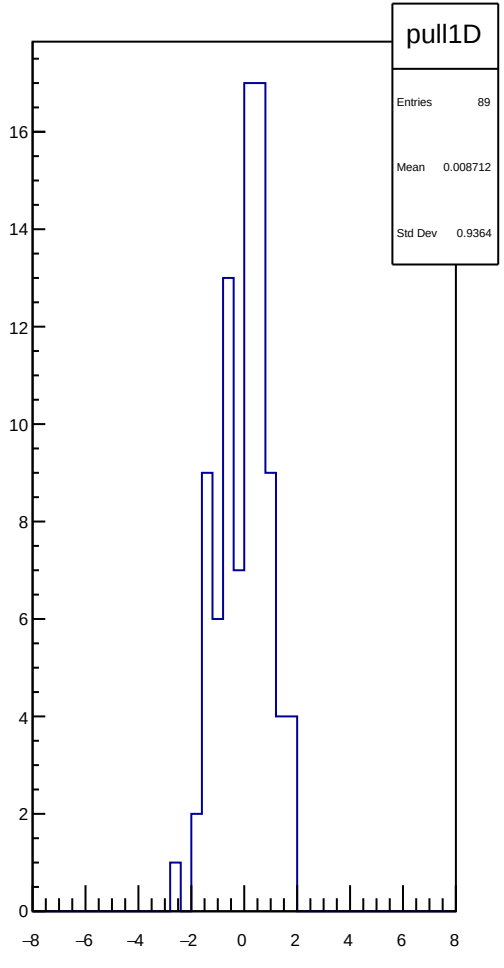

pull1D
Entries 89
Mean 0.007786
Std Dev 0.8899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

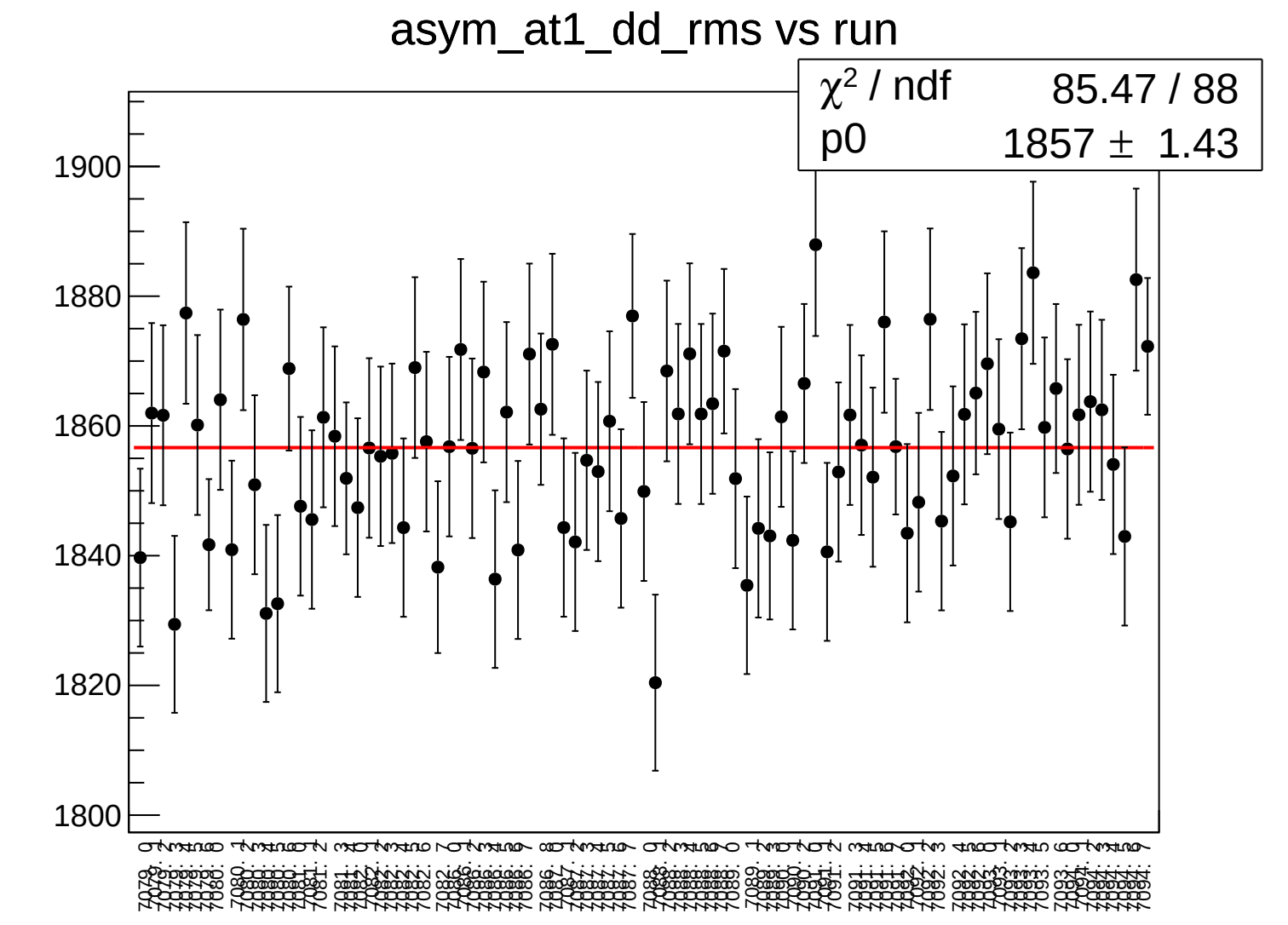

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 75.73 / 88
p0 1809 ± 1.393
1840
1820
1800
1780
1760

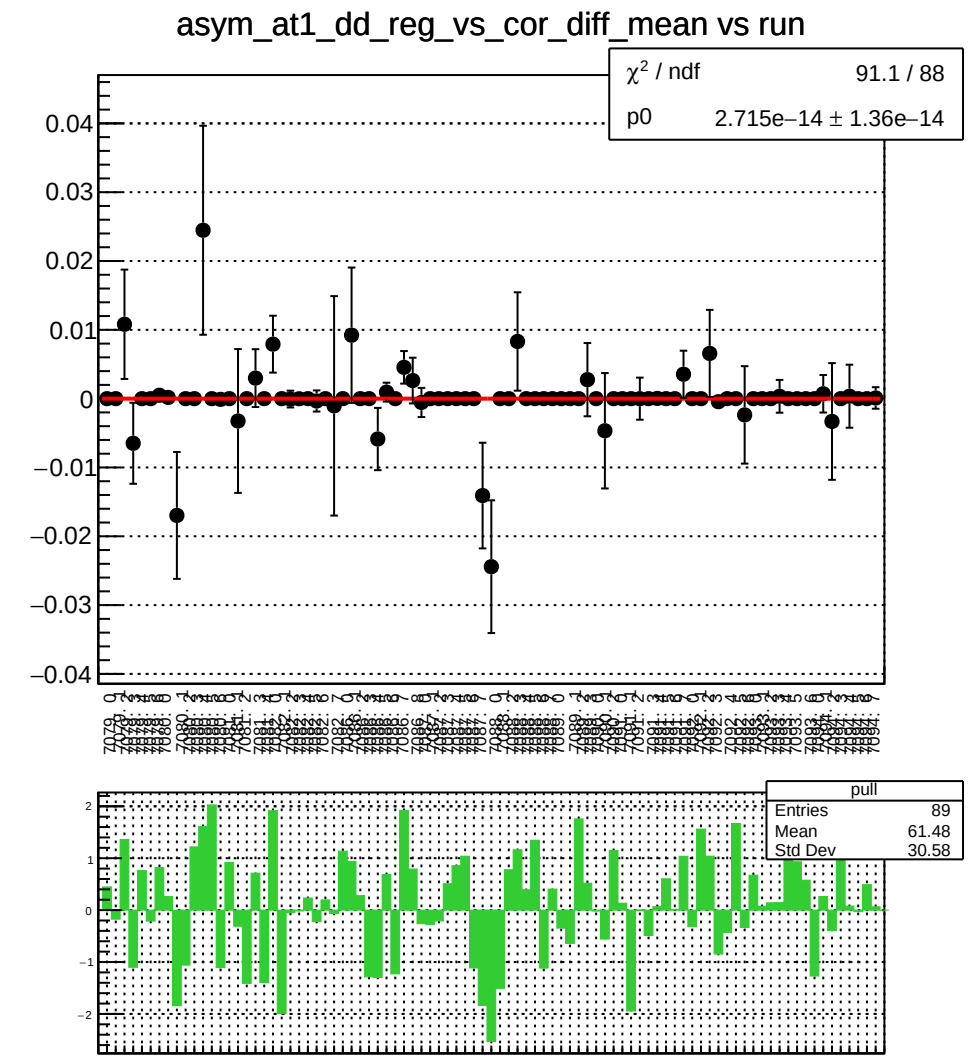

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.99 / 88
p0 844.6 ± 462.6
pull
Entries 89
Mean 1092
Std Dev 0
pull1D
Entries 89
Mean −0.003345
Std Dev 1.022

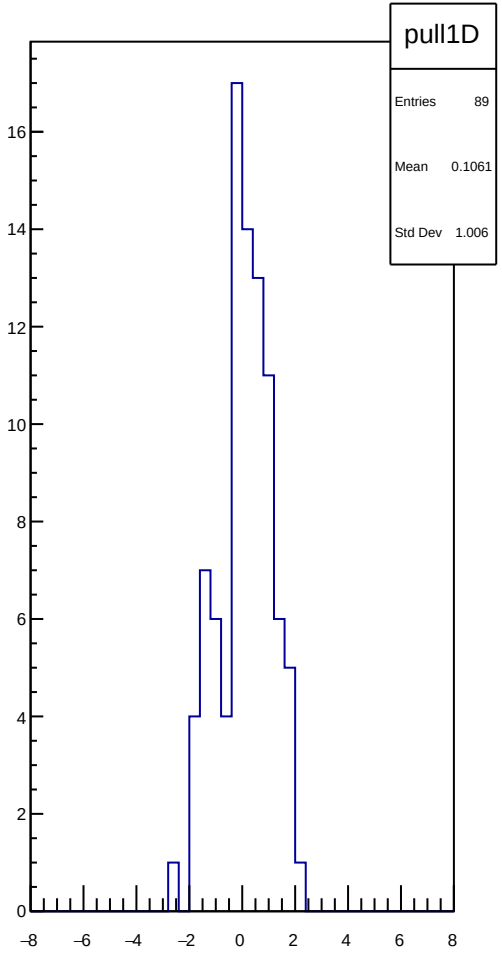

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3934 / 88
p0 424.3 ± 0.3271
480
460
440
420
400
380
360

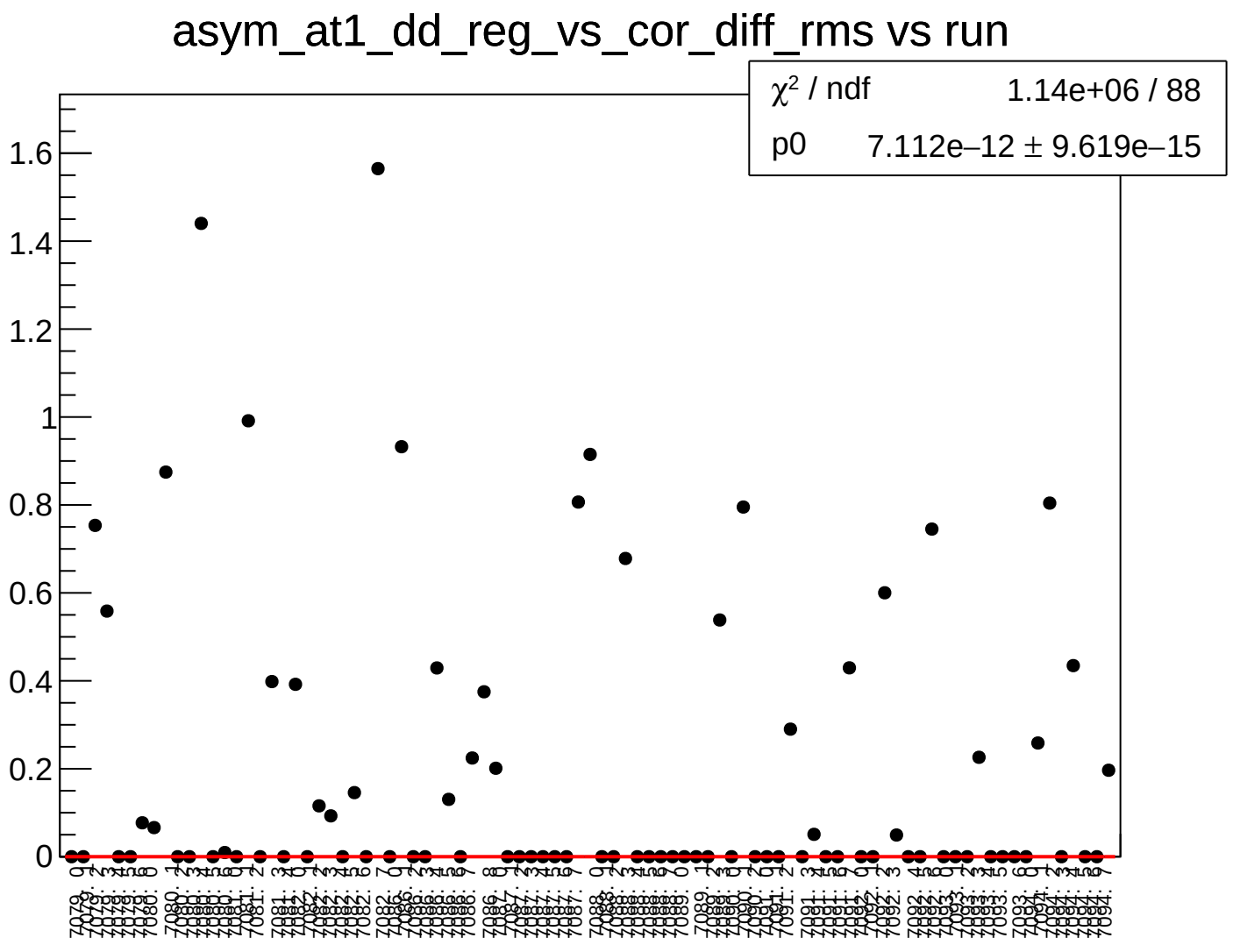

asym_at1_dd_mean vs run
χ² / ndf 78.05 / 88
p0 −1588 ± 2022
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 123
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

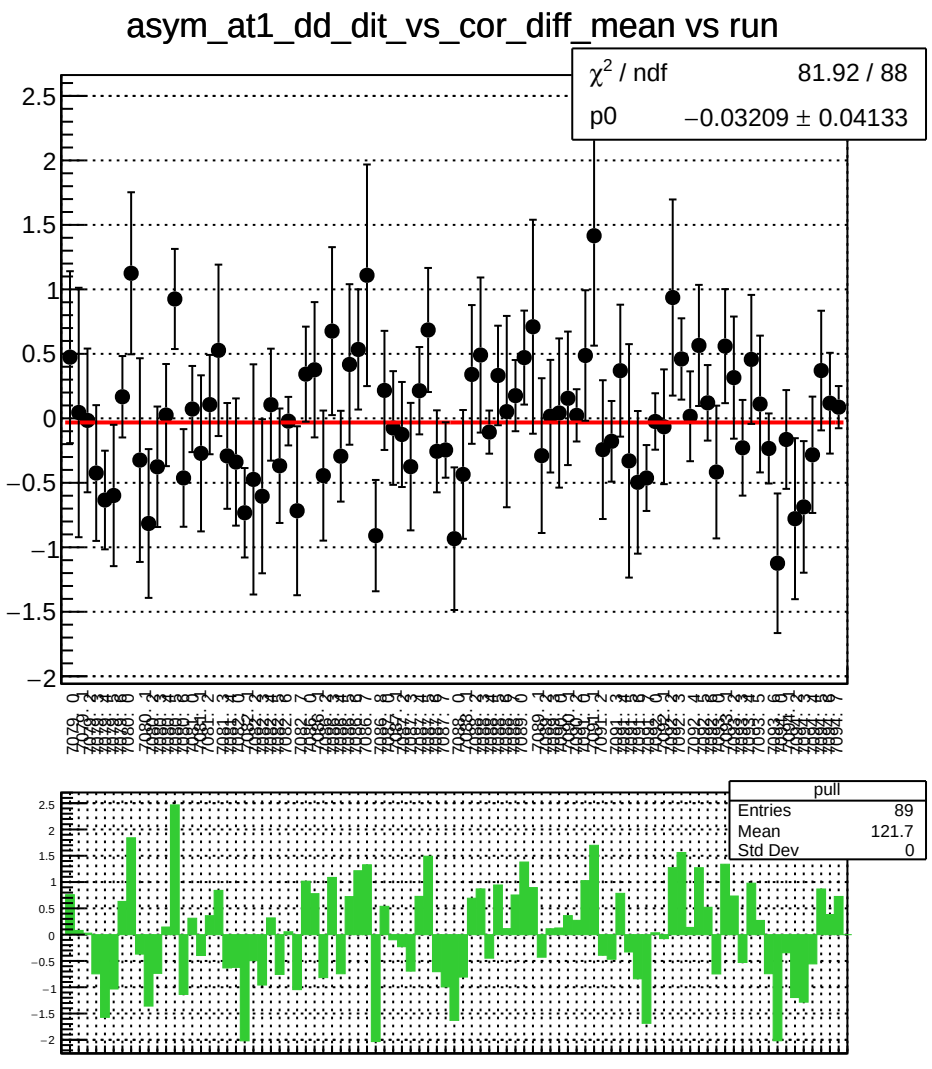

pull1D
Entries 89
Mean 0.008712
Std Dev 0.9364
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

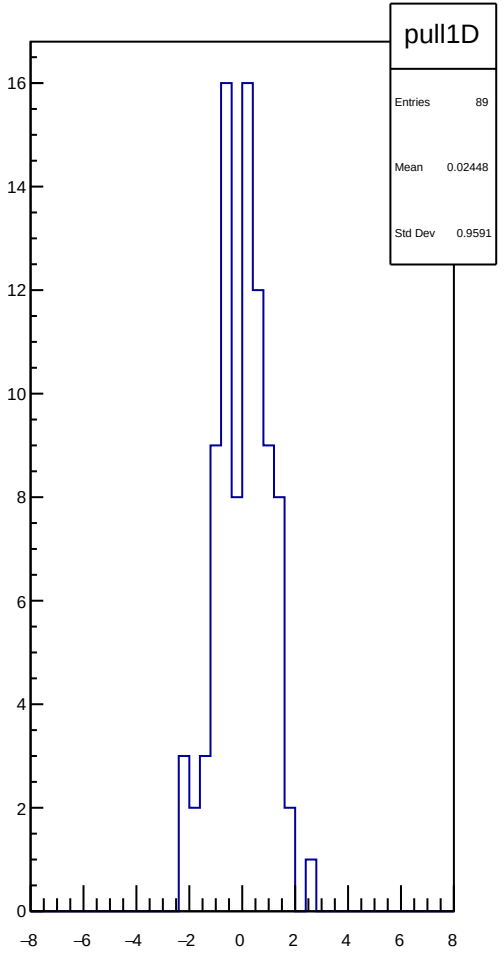

asym_at1_dd_rms vs run
χ² / ndf 85.47 / 88
p0 1857 ± 1.43
1900
1880
1860
1840
1820
1800

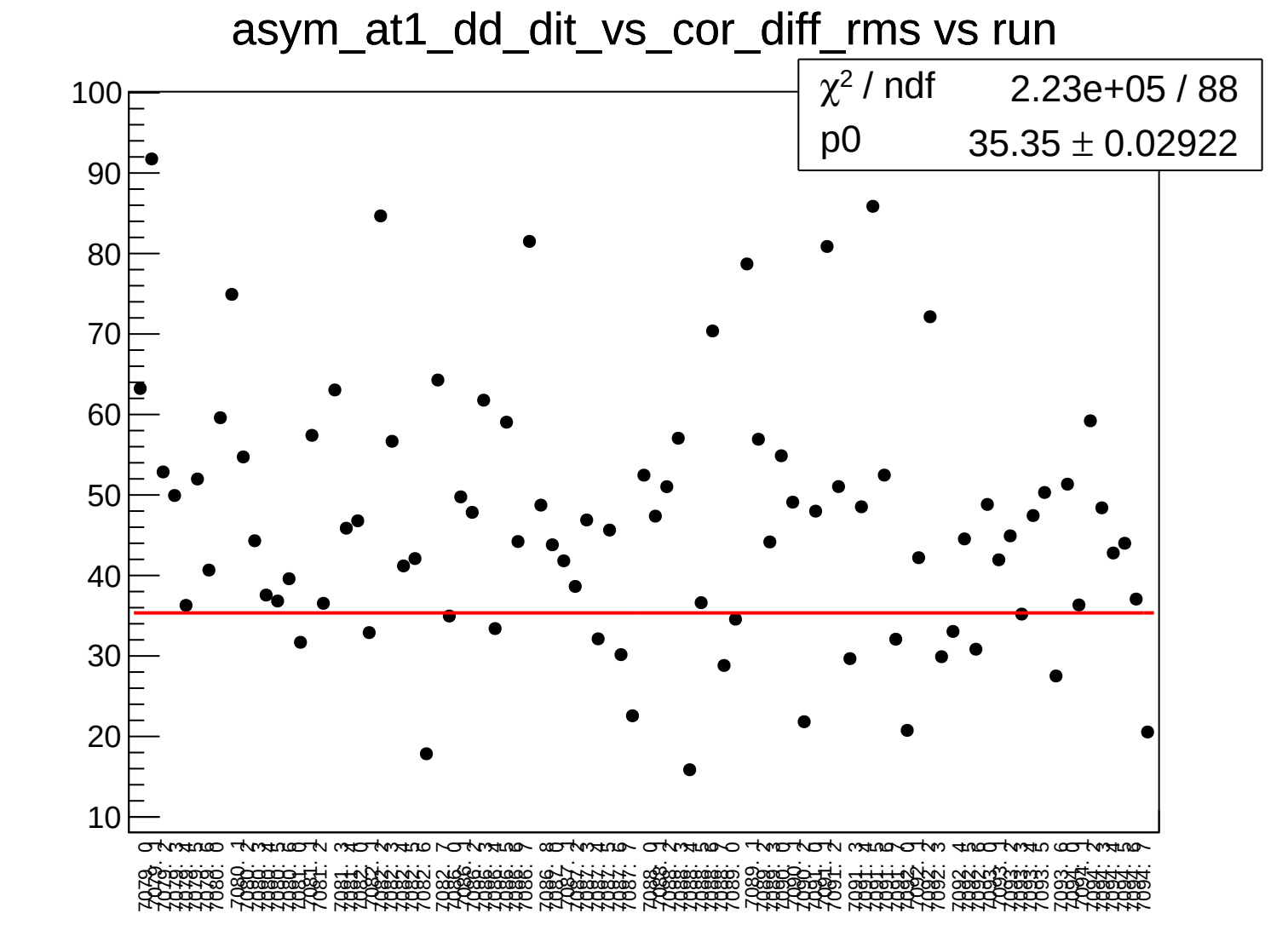

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.1 / 88
p0 2.715e−14 ± 1.36e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean 61.48
Std Dev 30.58
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.1061
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

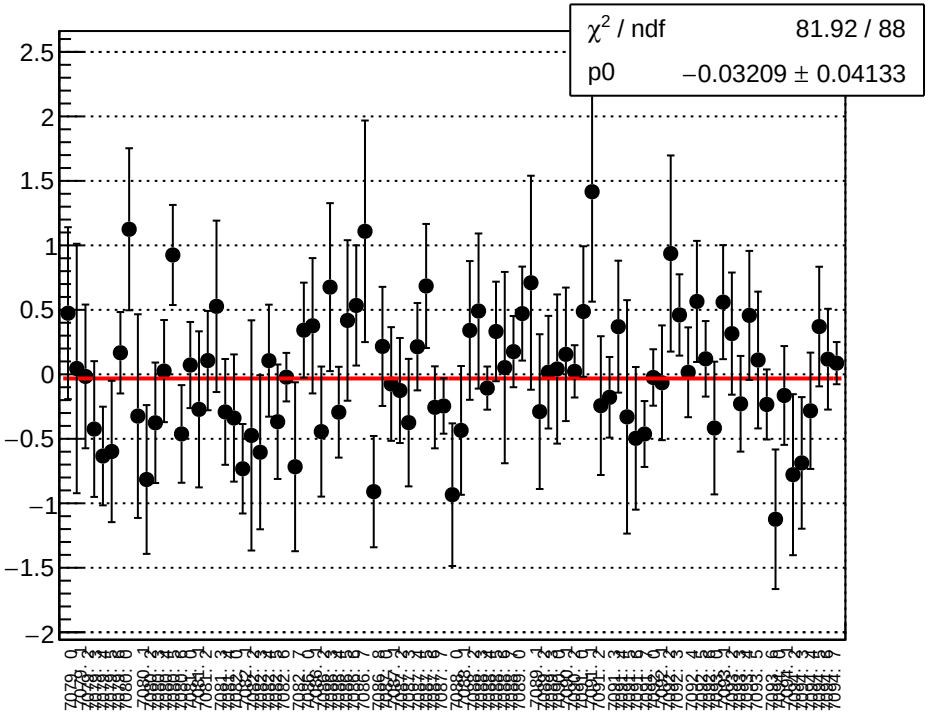

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.14e+06 / 88
p0 7.112e−12 ± 9.619e−15
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

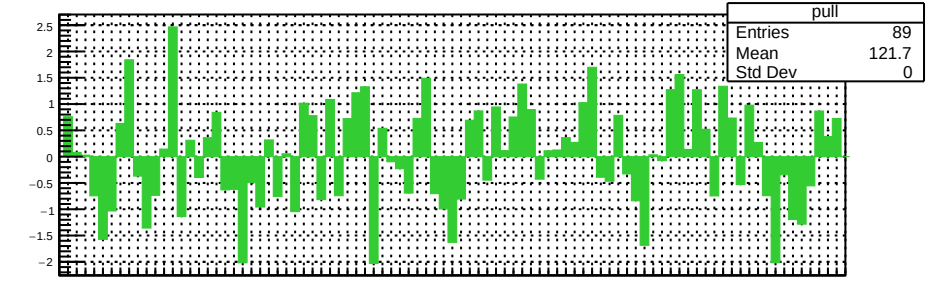

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.92 / 88
p0 −0.03209 ± 0.04133
pull
Entries 89
Mean 121.7
Std Dev 0

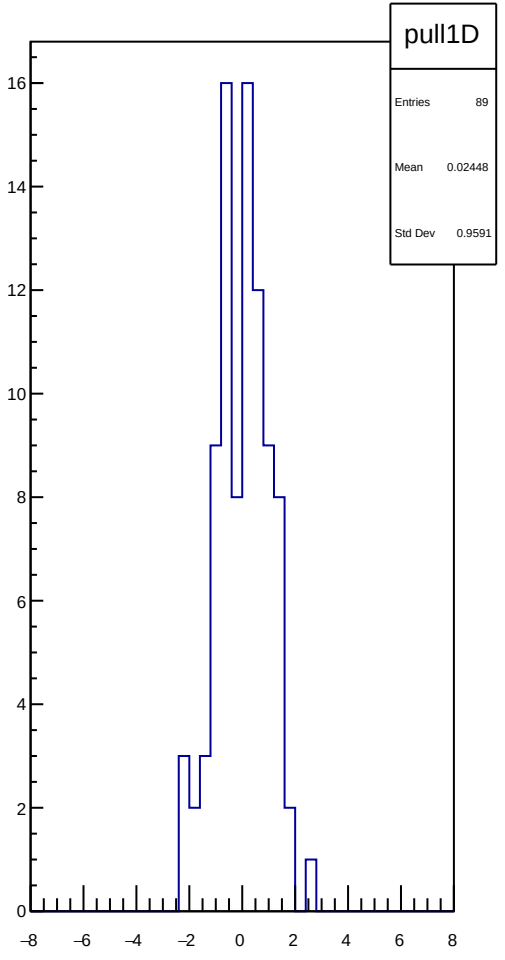

pull1D
Entries 89
Mean 0.02448
Std Dev 0.9591

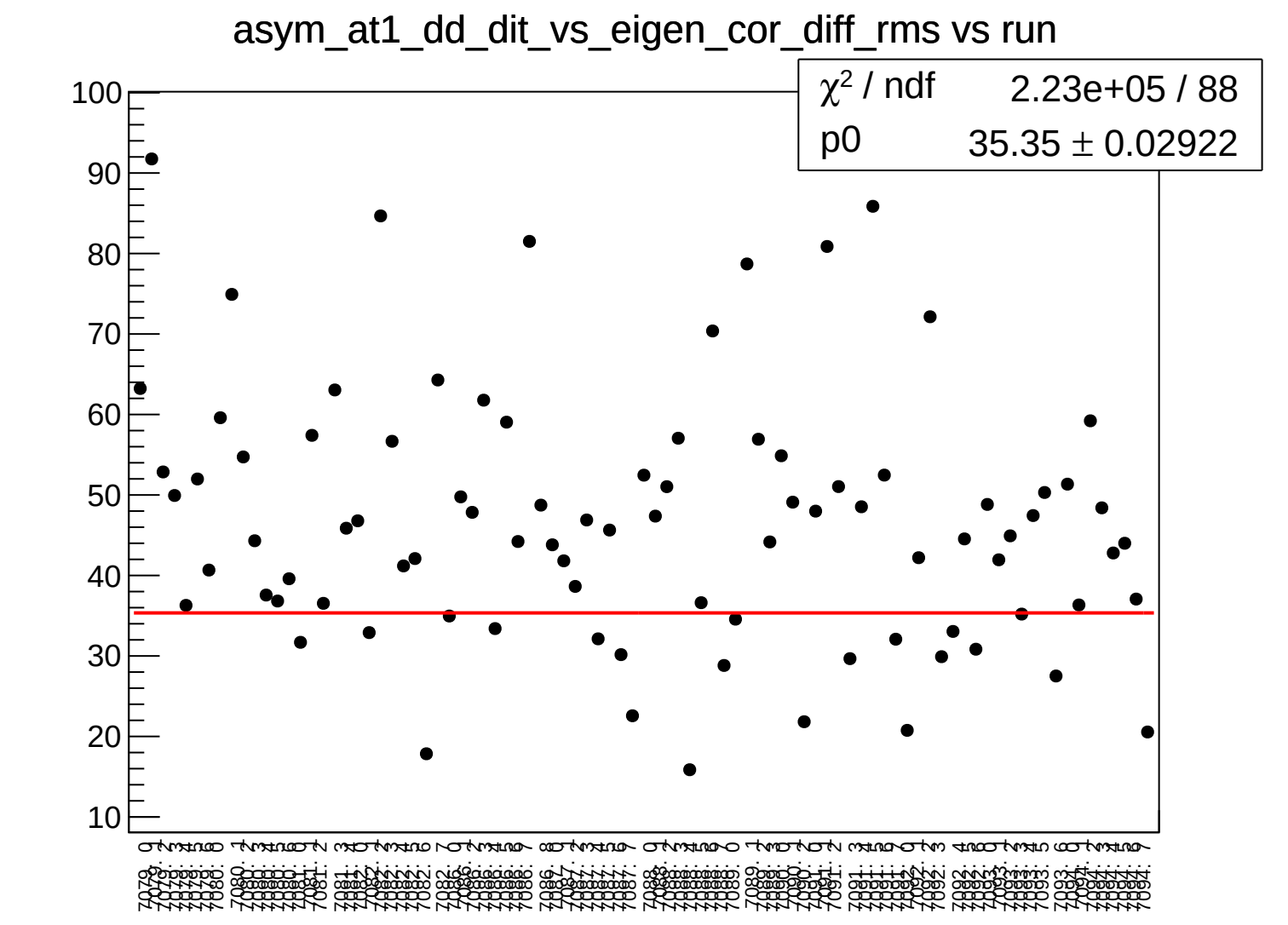

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.23e+05 / 88
p0 35.35 ± 0.02922
100
90
80
70
60
50
40
30
20
10

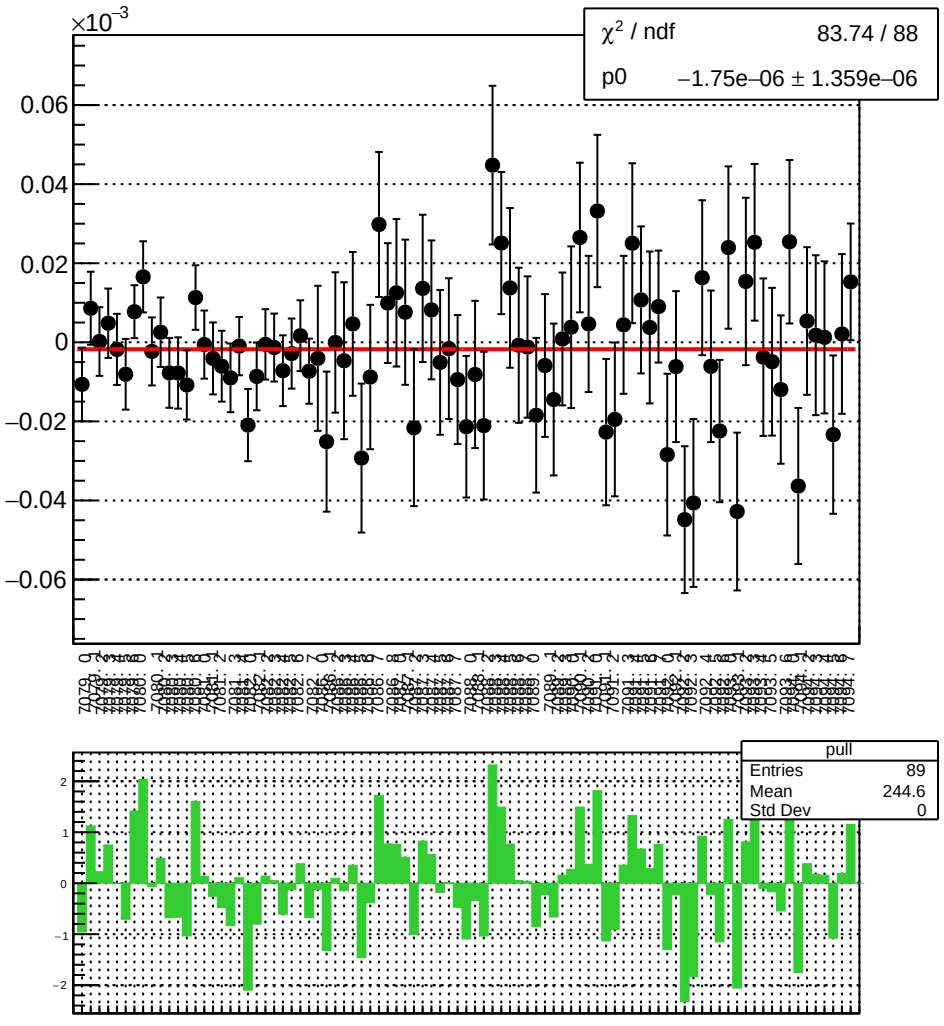
asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run

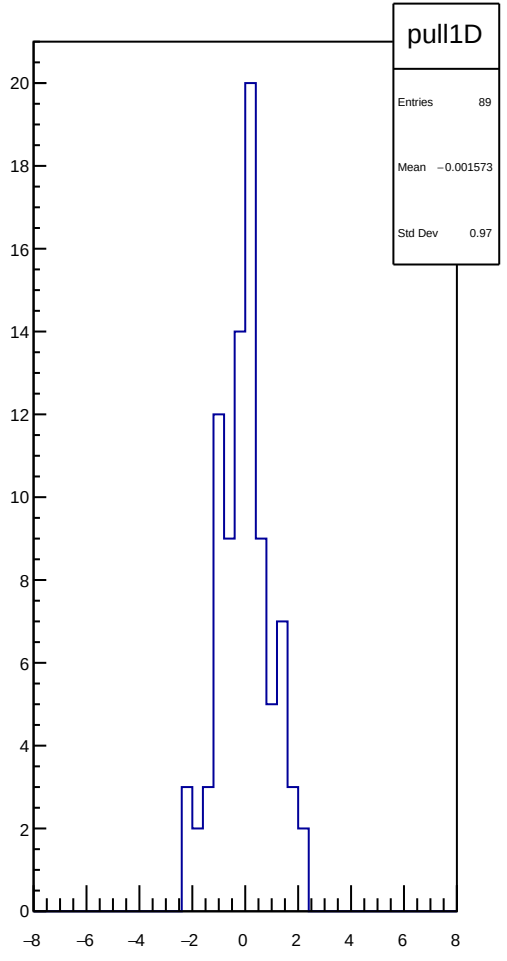


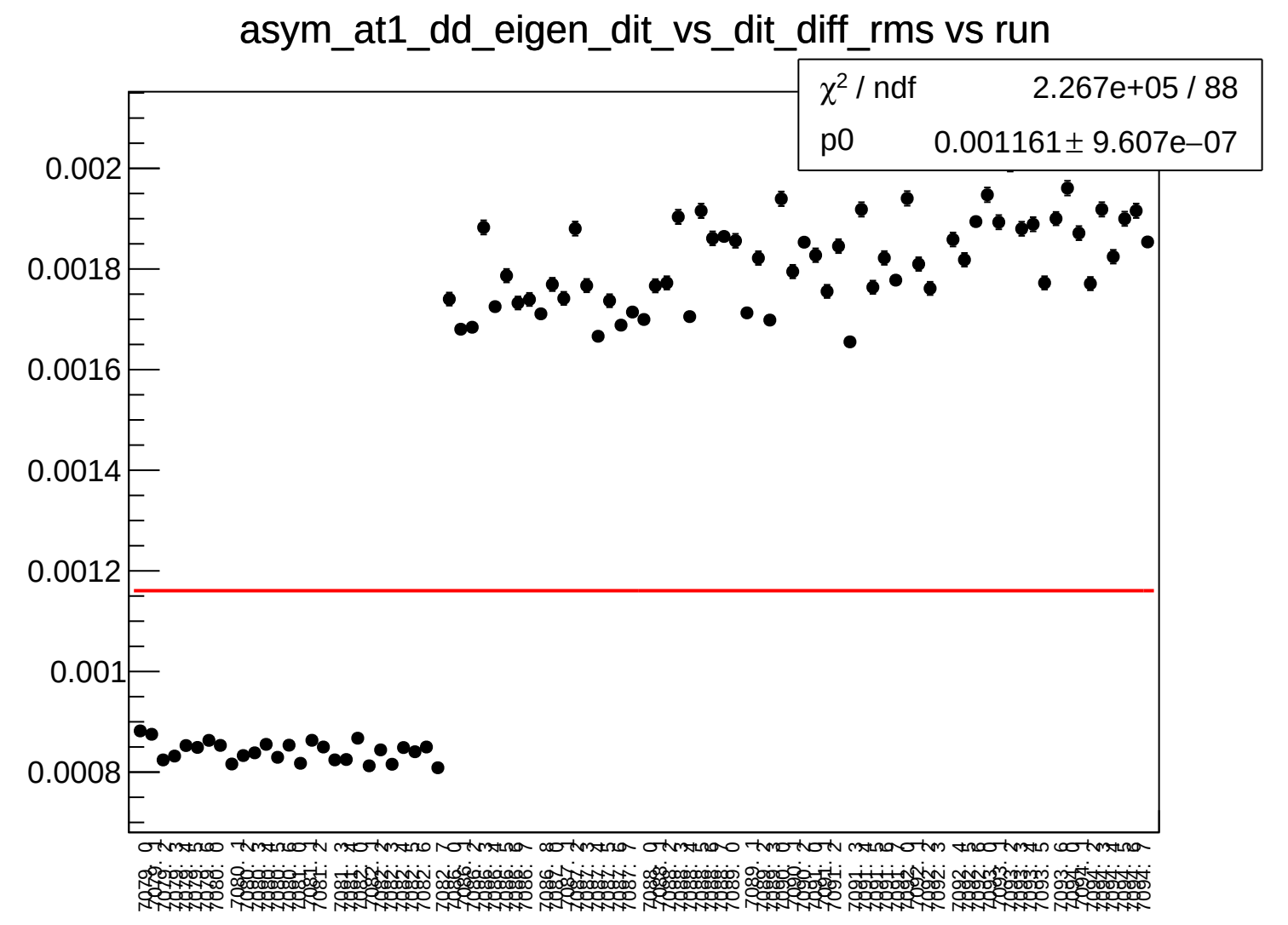




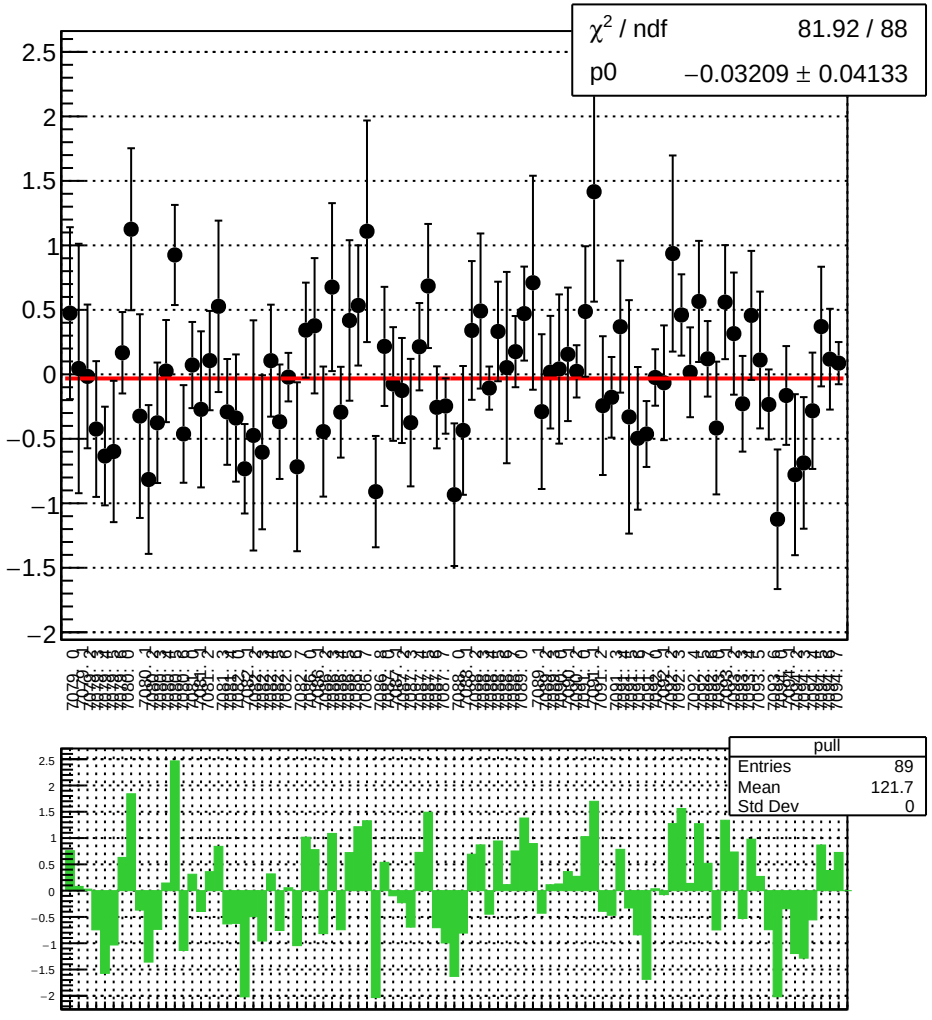

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.23e+05 / 88
p0 35.35 ± 0.02922
100
90
80
70
60
50
40
30
20
10

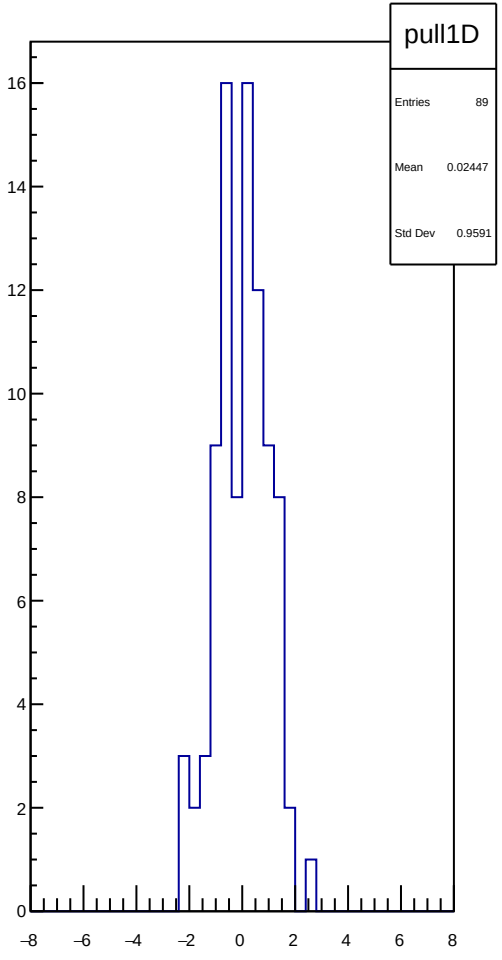

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.74 / 88
p0 −1.75e−06 ± 1.359e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 244.6
Std Dev 0
2
1
0
−1
−2

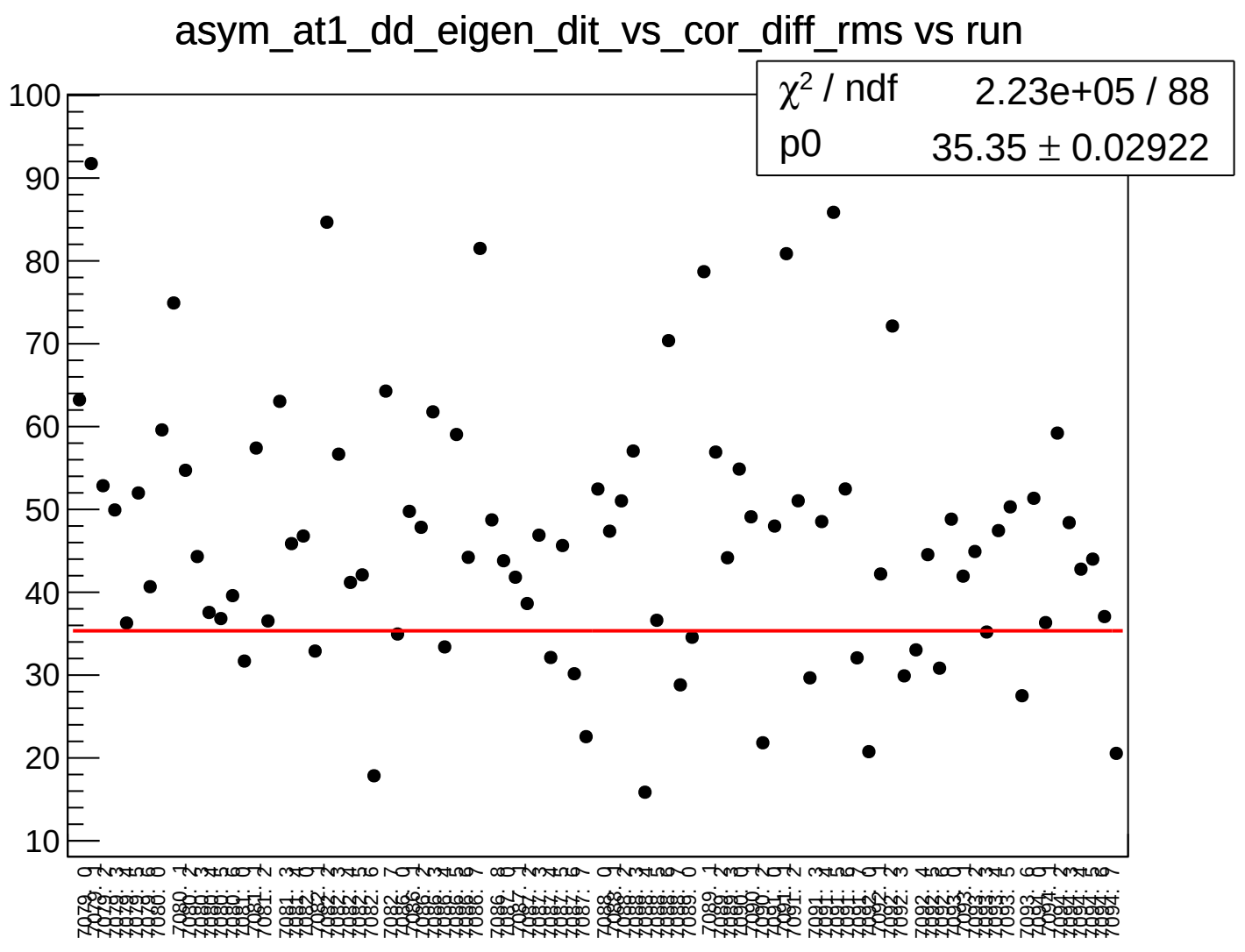

pull1D
Entries 89
Mean −0.001573
Std Dev 0.97
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

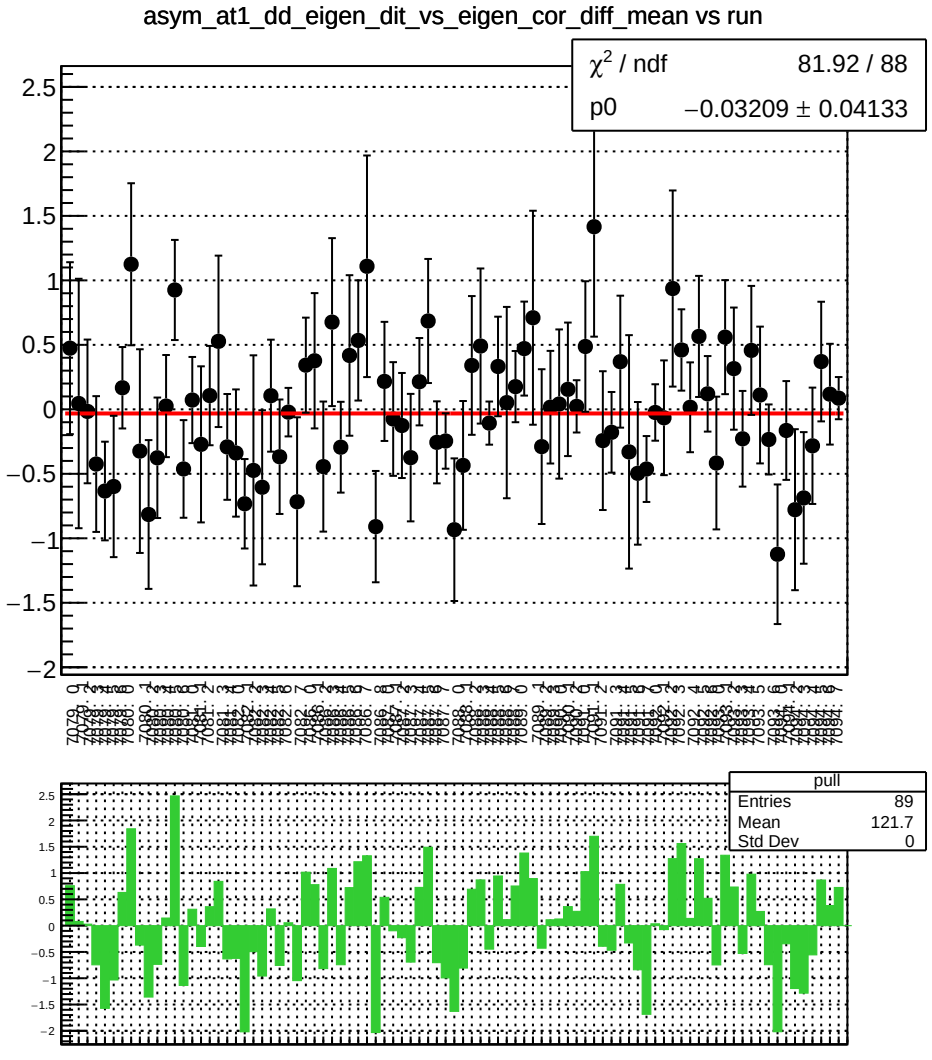

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.267e+05 / 88
p0 0.001161 ± 9.607e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

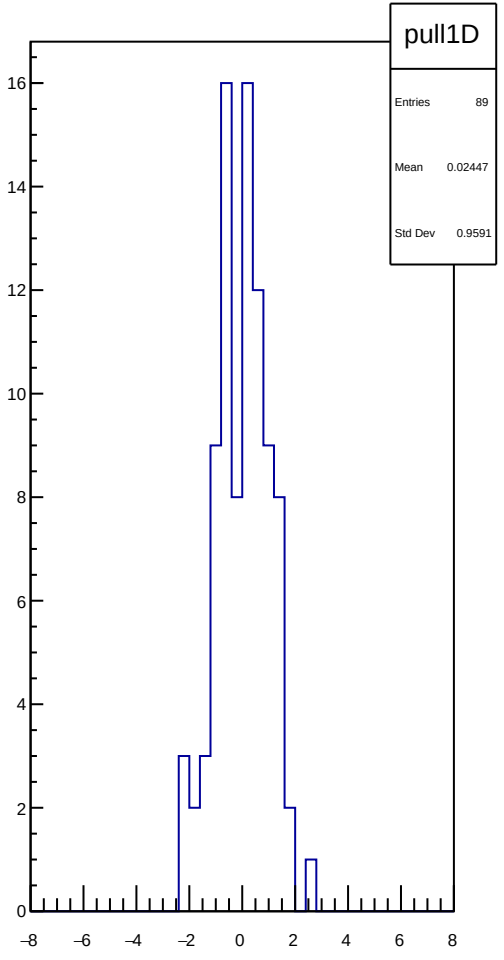
asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run

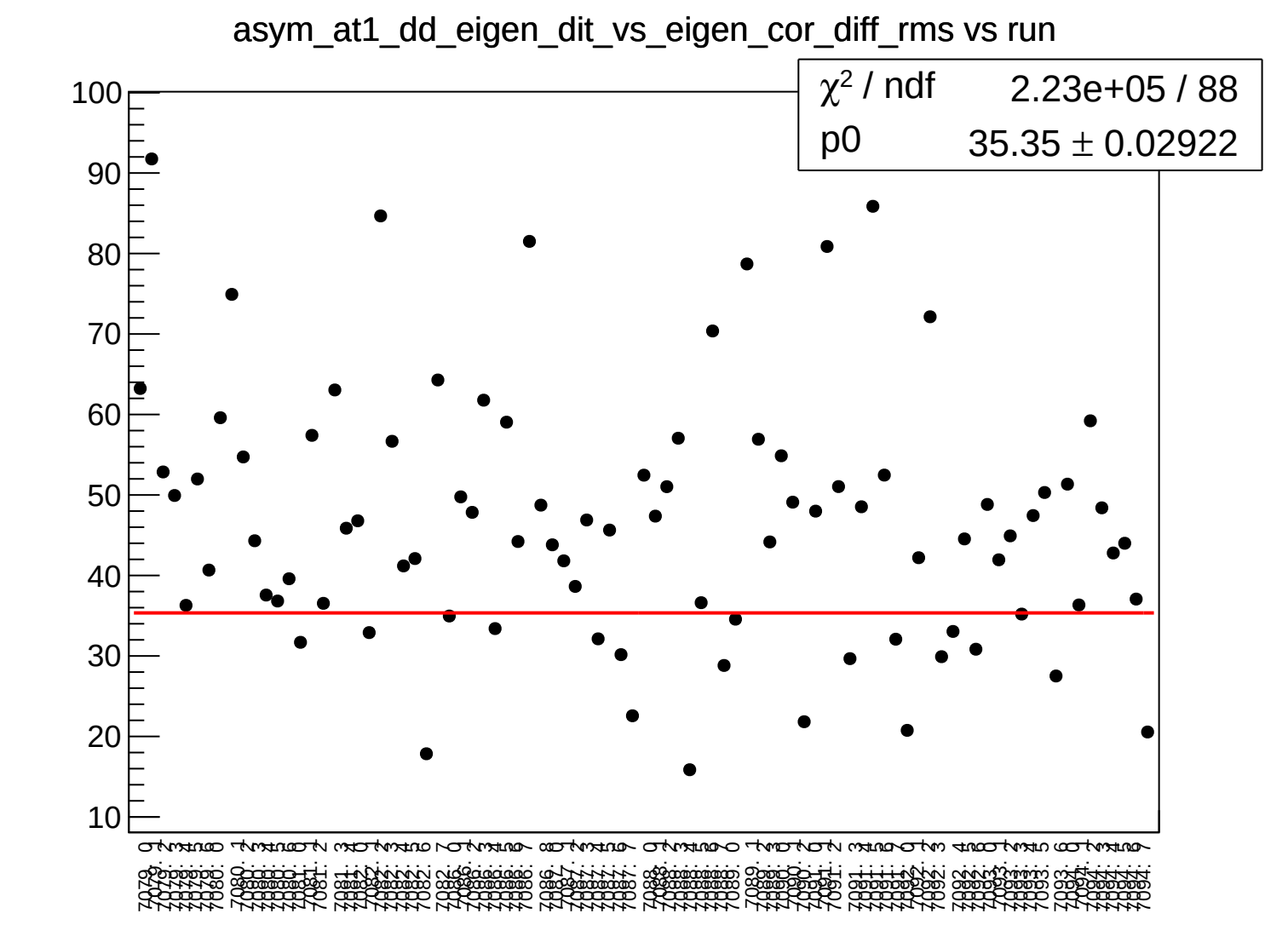


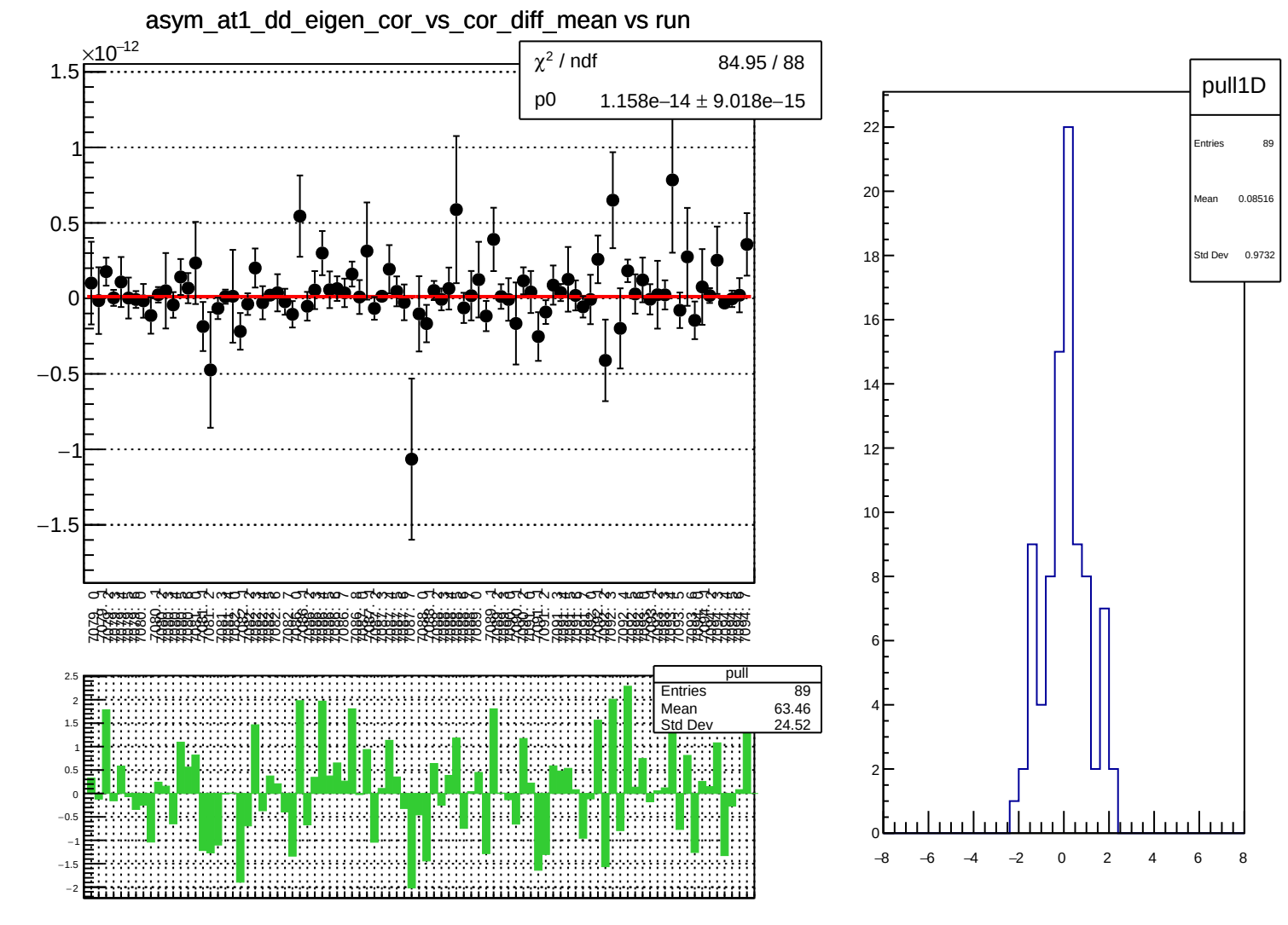


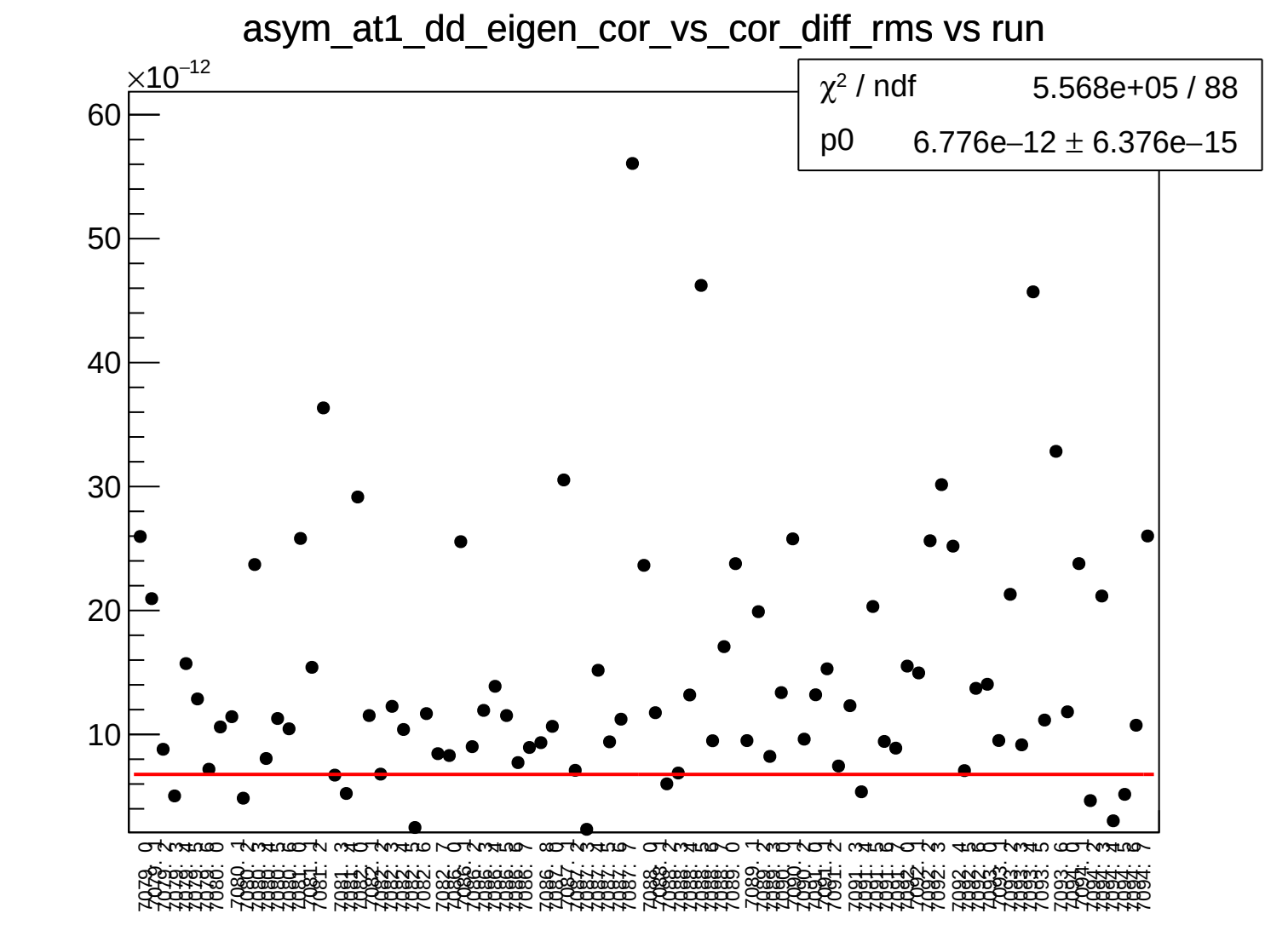

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.23e+05 / 88
p0 35.35 ± 0.02922
100
90
80
70
60
50
40
30
20
10

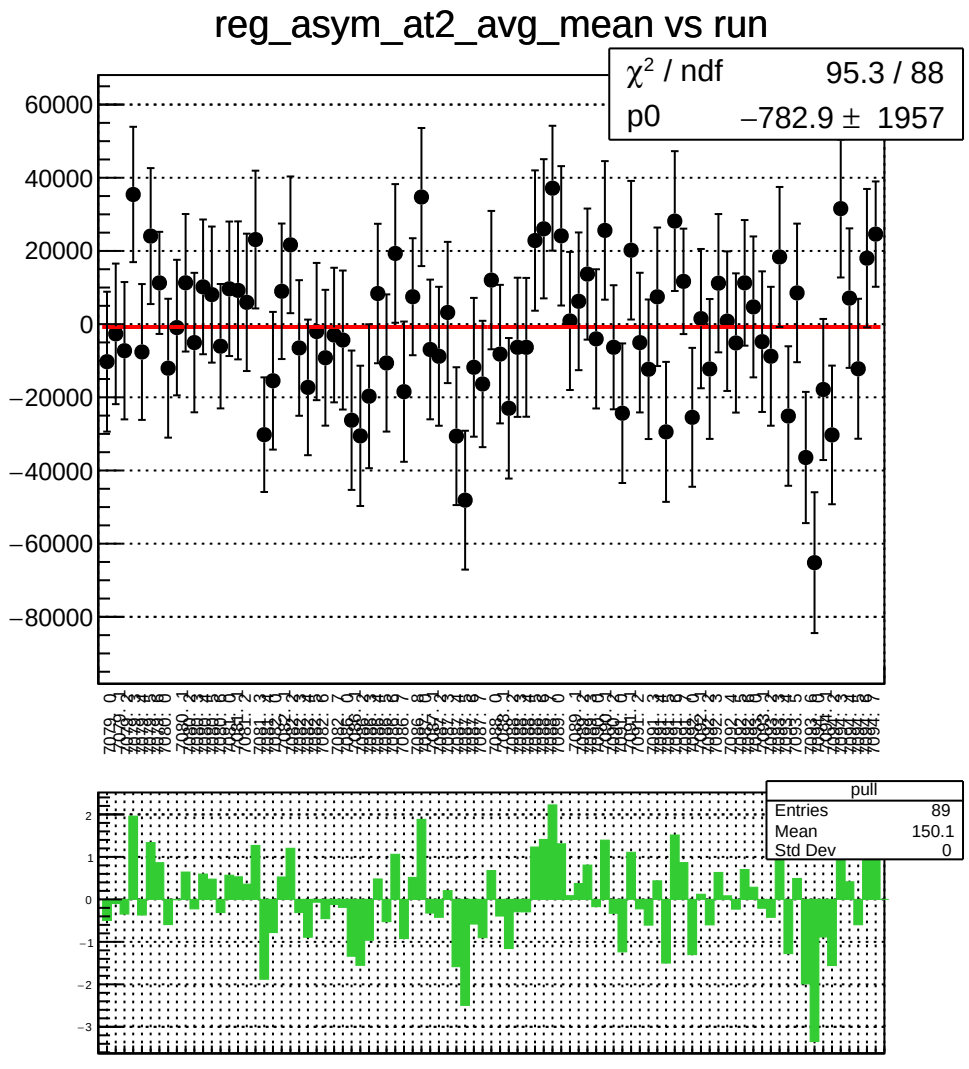

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.92 / 88
p0 −0.03209 ± 0.04133
pull
Entries 89
Mean 121.7
Std Dev 0

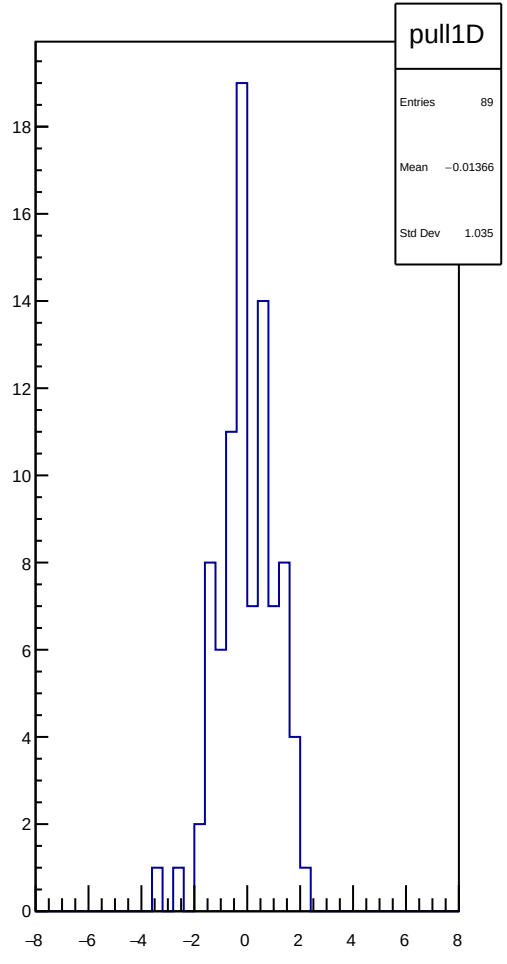

pull1D
Entries 89
Mean 0.02447
Std Dev 0.9591

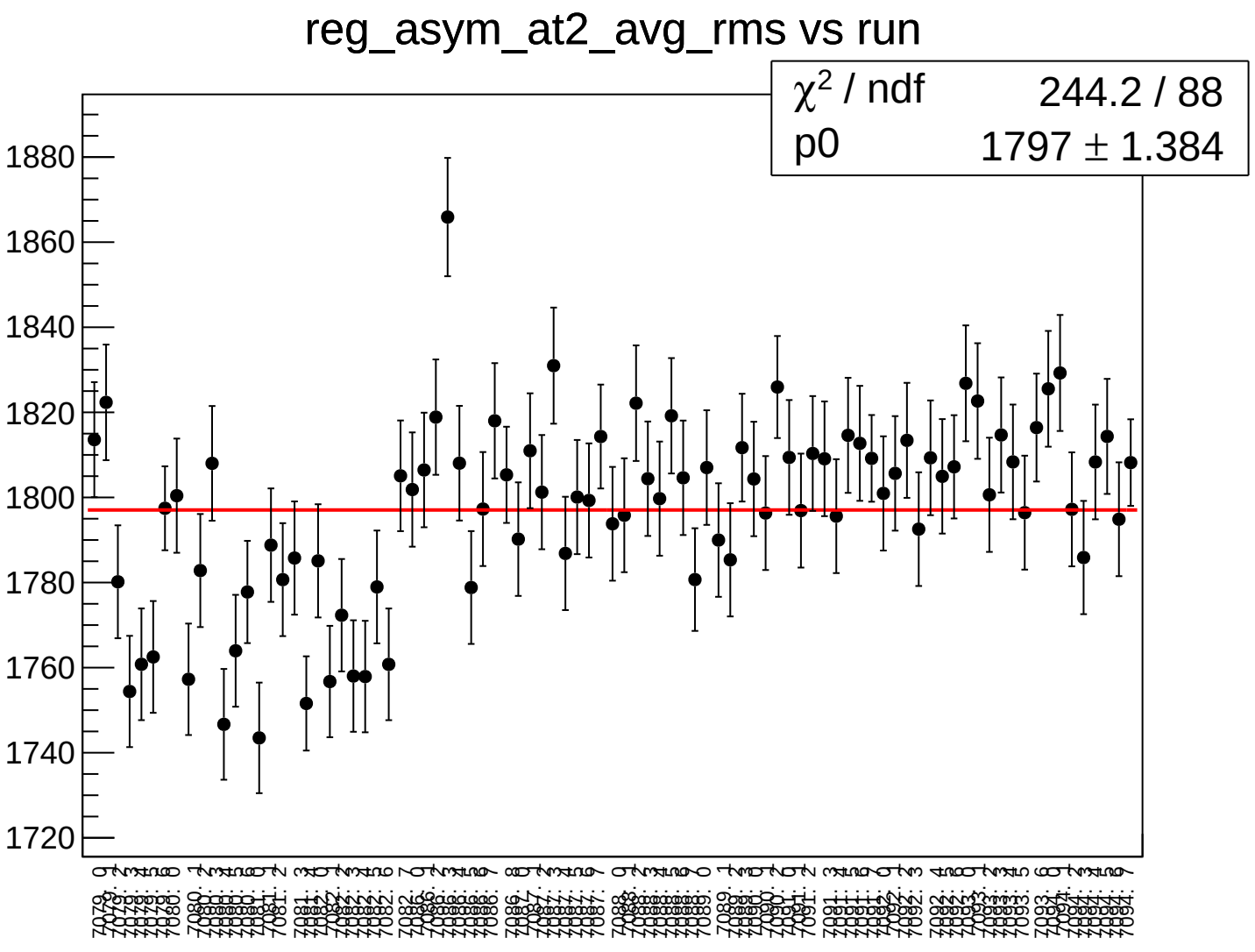

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.23e+05 / 88
p0 35.35 ± 0.02922
100
90
80
70
60
50
40
30
20
10

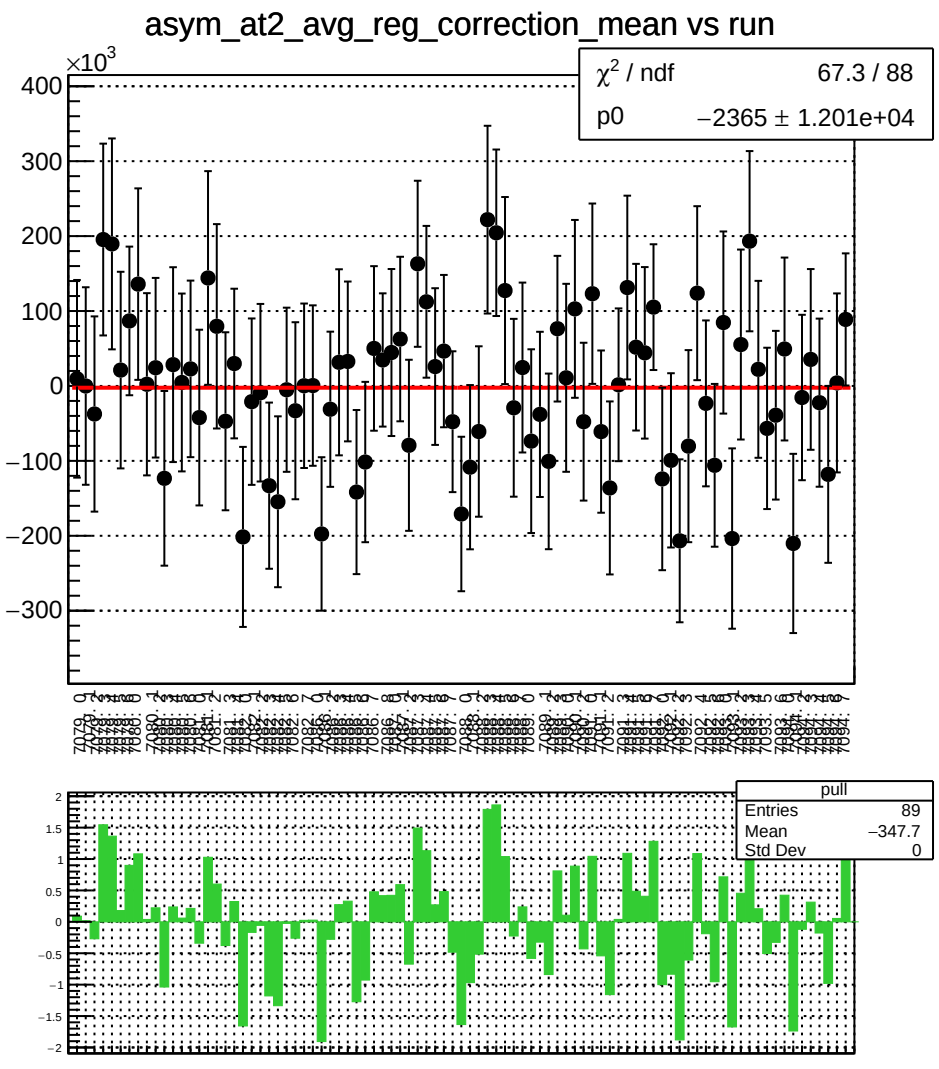

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.95 / 88
p0 1.158e−14 ± 9.018e−15
pull
Entries 89
Mean 63.46
Std Dev 24.52
pull1D
Entries 89
Mean 0.08516
Std Dev 0.9732

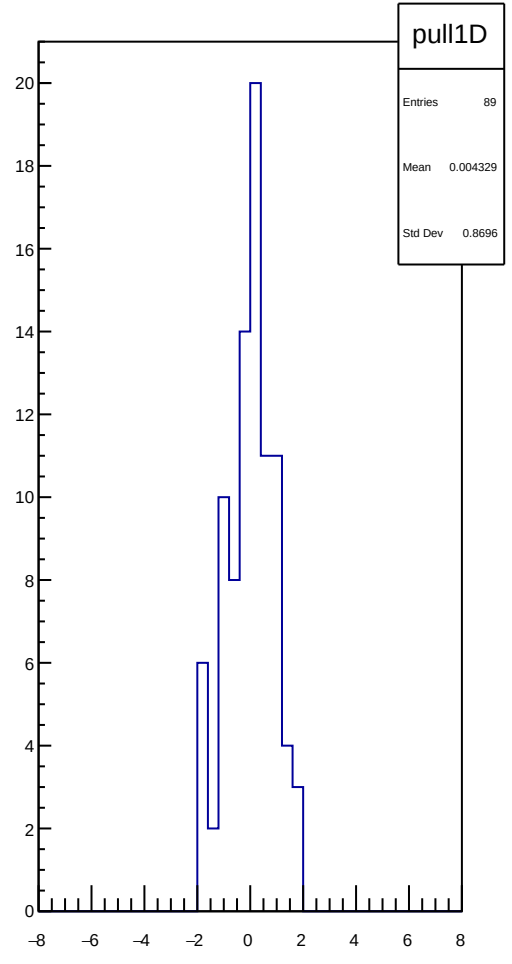

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.568e+05 / 88
p0 6.776e−12 ± 6.376e−15
60
50
40
30
20
10

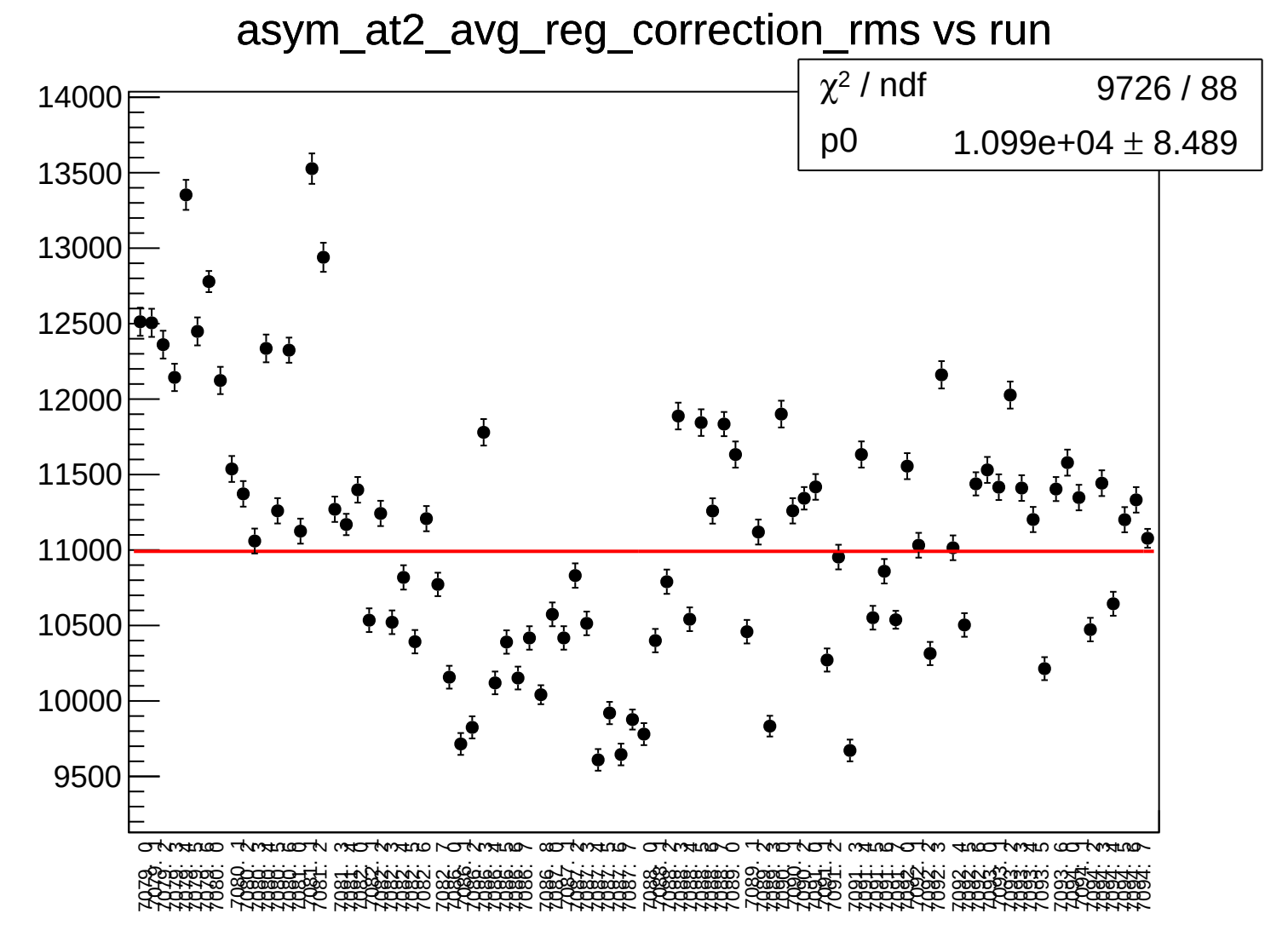

reg_asym_at2_avg_mean vs run
χ² / ndf 95.3 / 88
p0 −782.9 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 150.1
Std Dev 0
2
1
0
−1
−2
−3

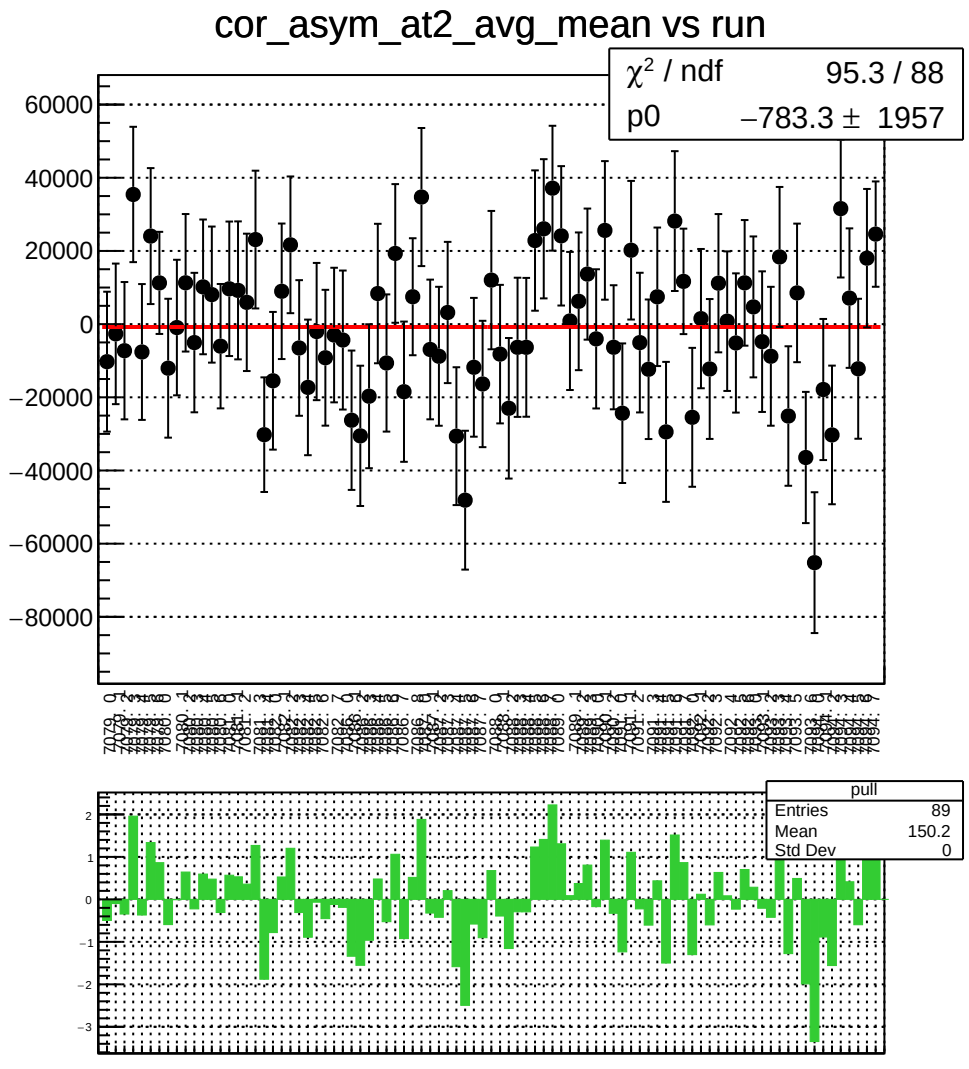

pull1D
Entries 89
Mean −0.01366
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

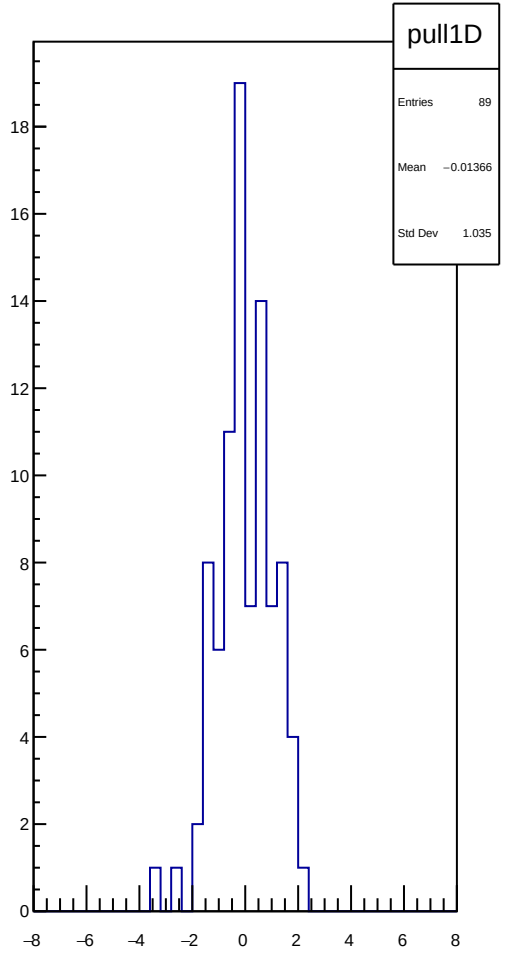

reg_asym_at2_avg_rms vs run
χ² / ndf 244.2 / 88
p0 1797 ± 1.384
1880
1860
1840
1820
1800
1780
1760
1740
1720

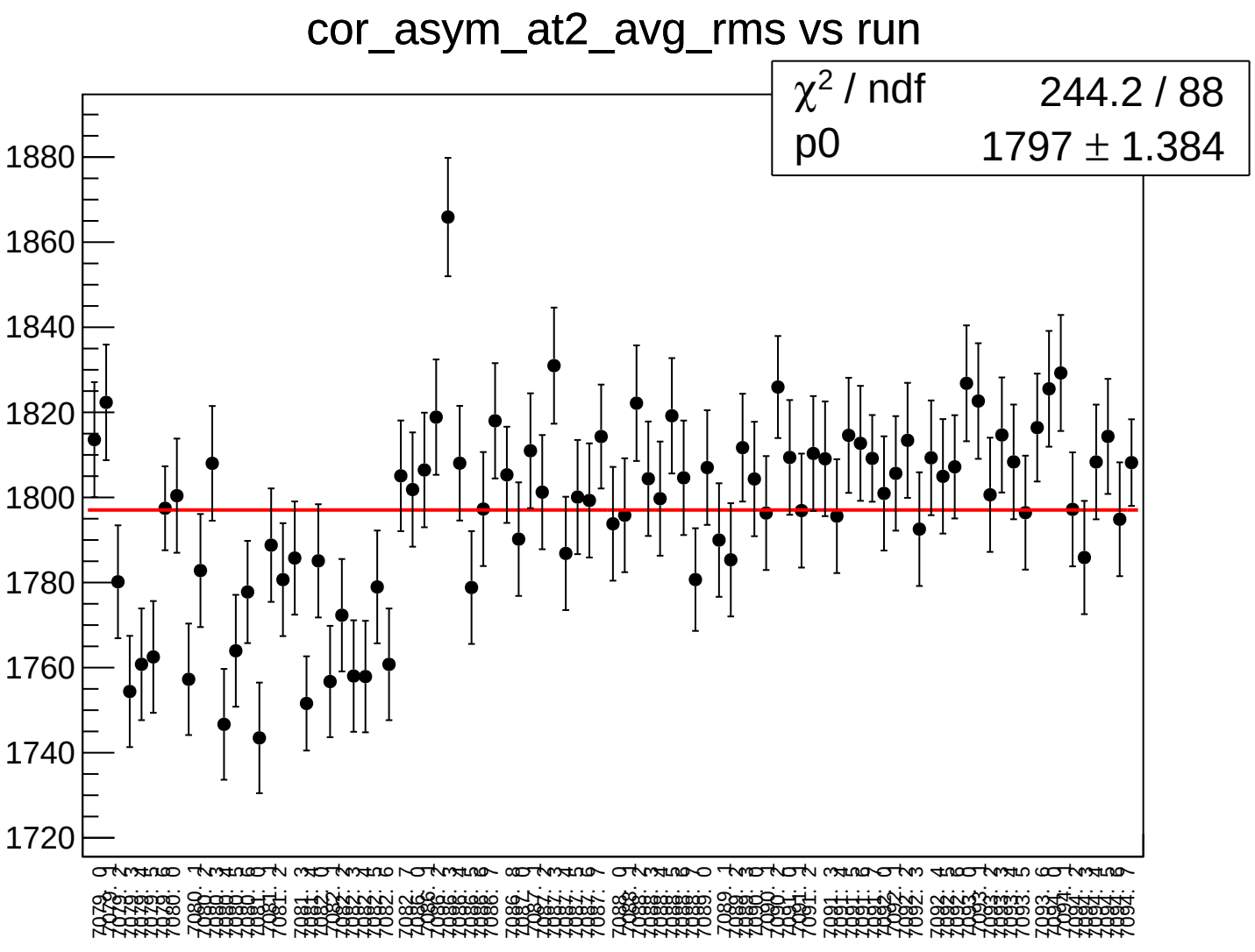

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 67.3 / 88
p0 −2365 ± 1.201e+04
pull
Entries 89
Mean −347.7
Std Dev 0

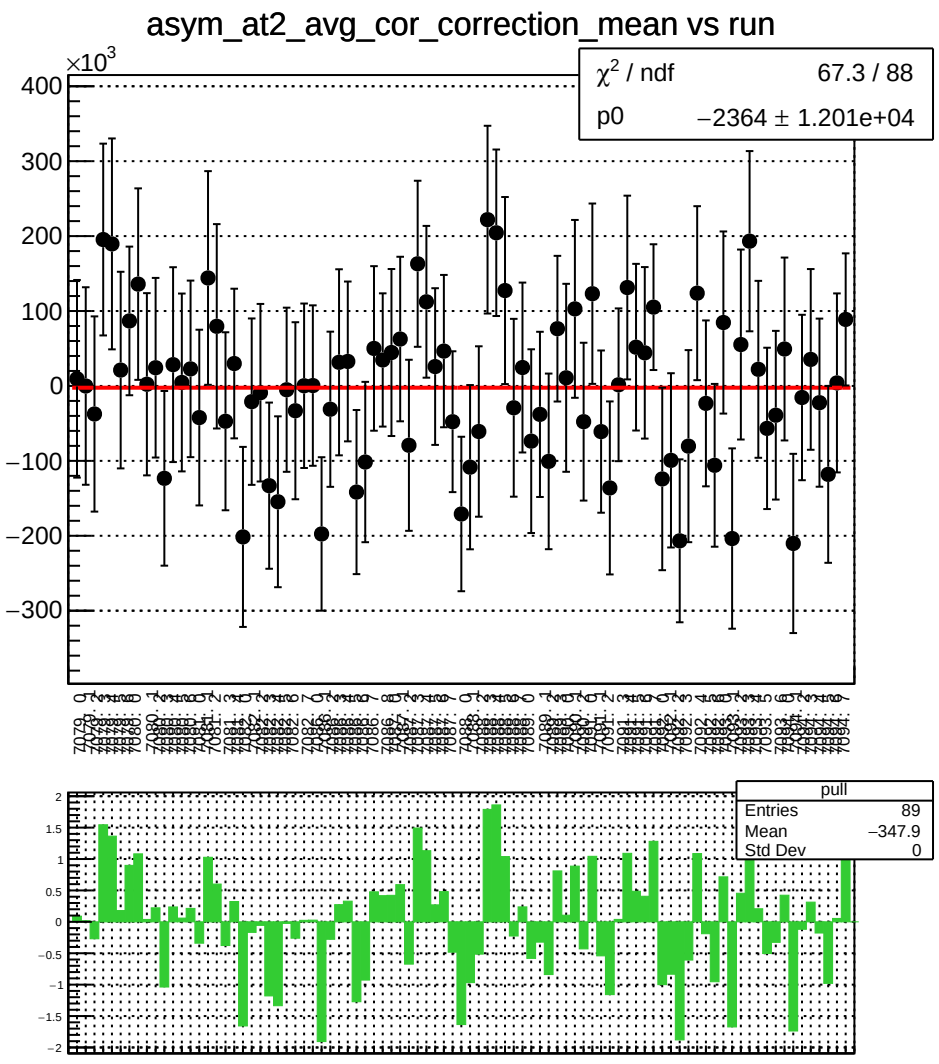

pull1D
Entries 89
Mean 0.004329
Std Dev 0.8696

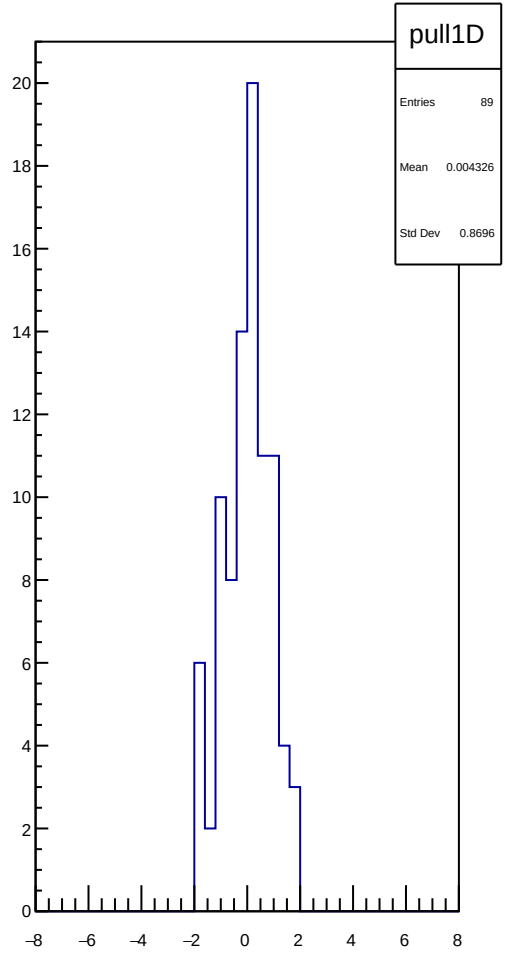

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 9726 / 88
p0 1.099e+04 ± 8.489
14000
13500
13000
12500
12000
11500
11000
10500
10000
9500

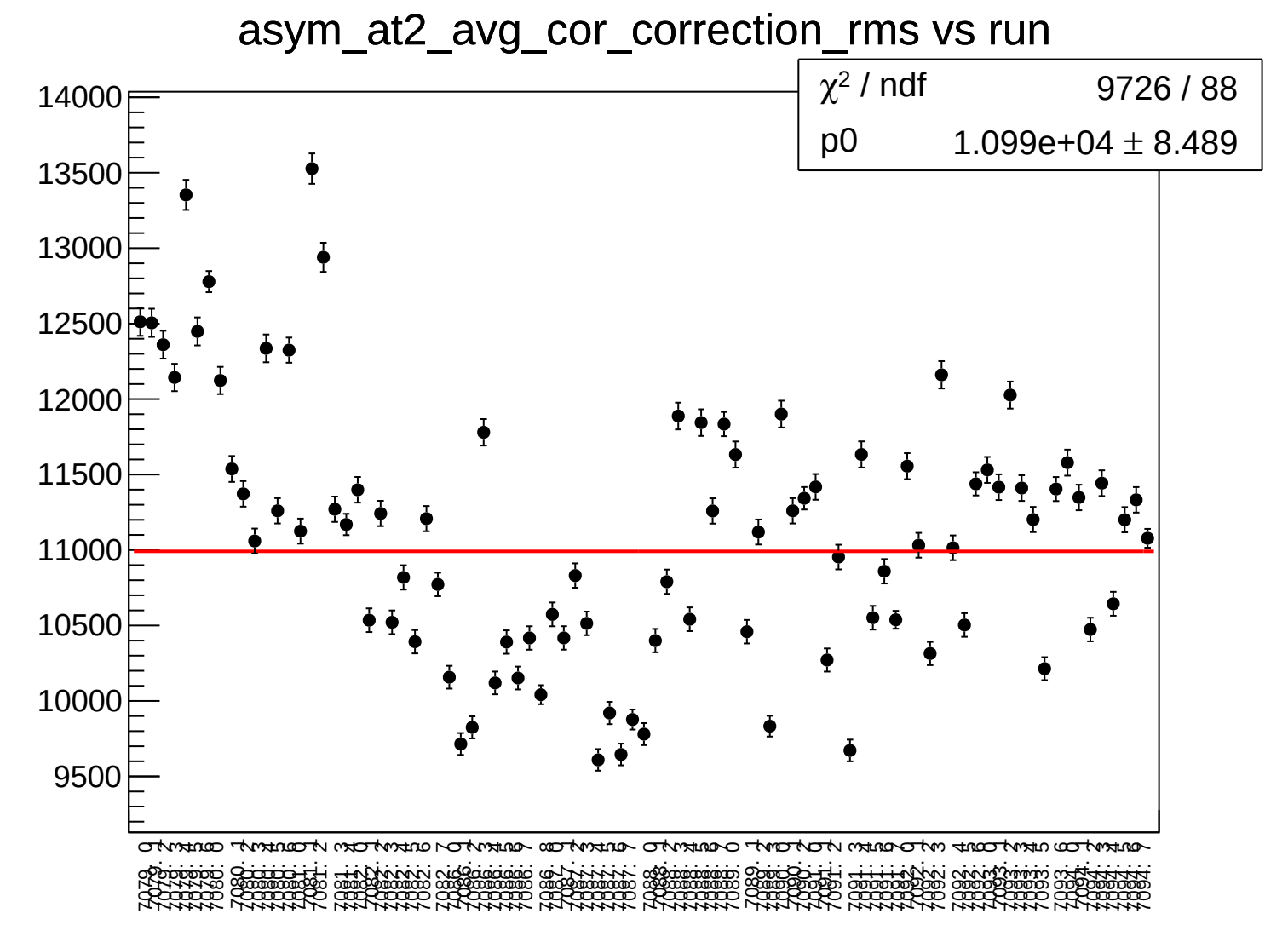

cor_asym_at2_avg_mean vs run
χ² / ndf 95.3 / 88
p0 −783.3 ± 1957
pull
Entries 89
Mean 150.2
Std Dev 0

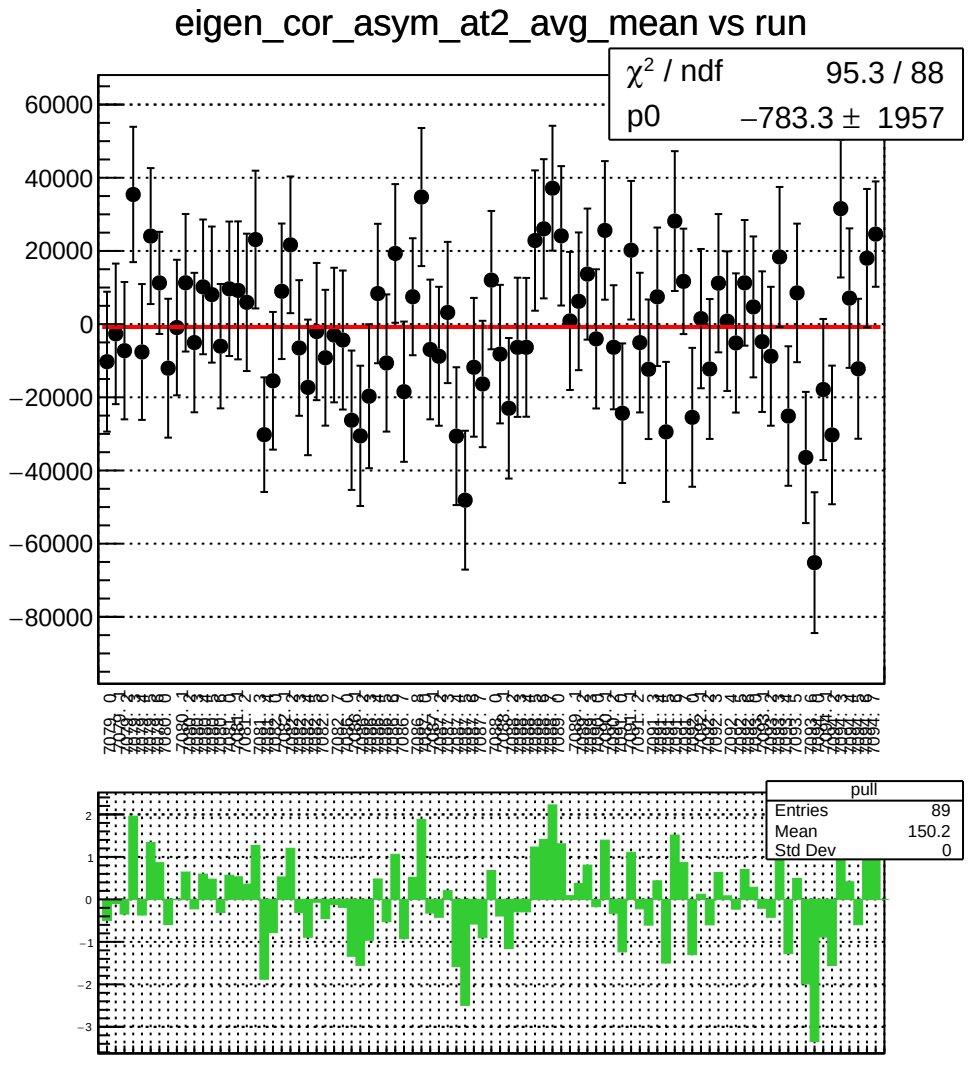

pull1D
Entries 89
Mean −0.01366
Std Dev 1.035

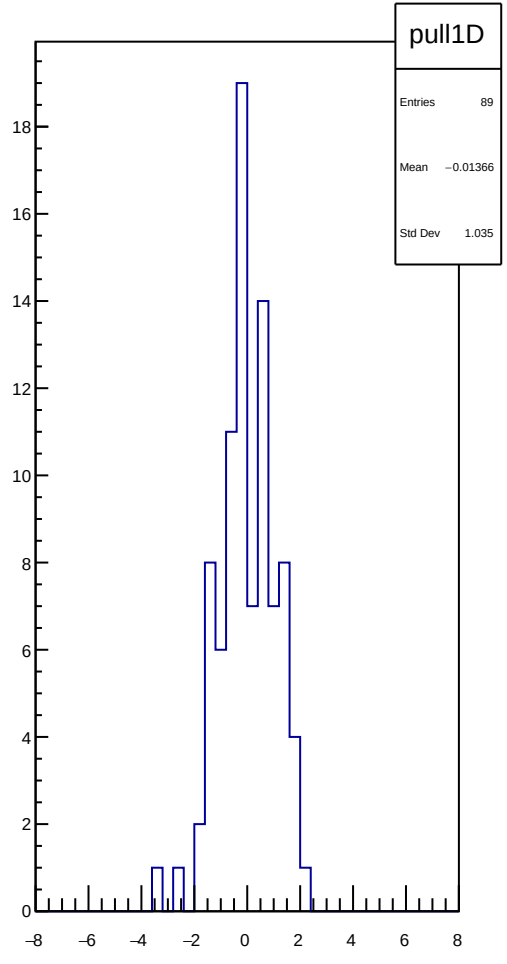

cor_asym_at2_avg_rms vs run
χ² / ndf 244.2 / 88
p0 1797 ± 1.384
1880
1860
1840
1820
1800
1780
1760
1740
1720

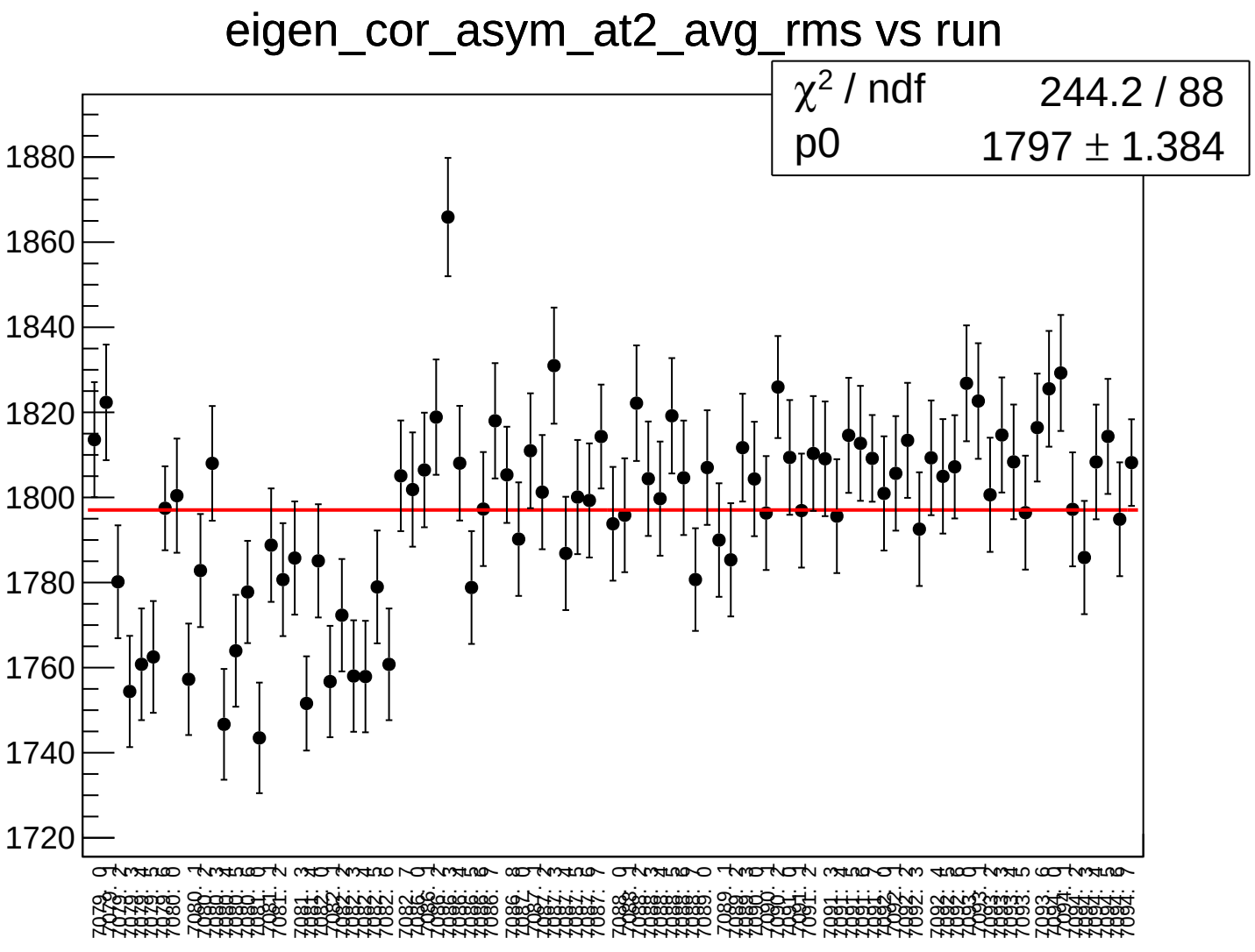

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 67.3 / 88
p0 −2364 ± 1.201e+04
pull
Entries 89
Mean −347.9
Std Dev 0

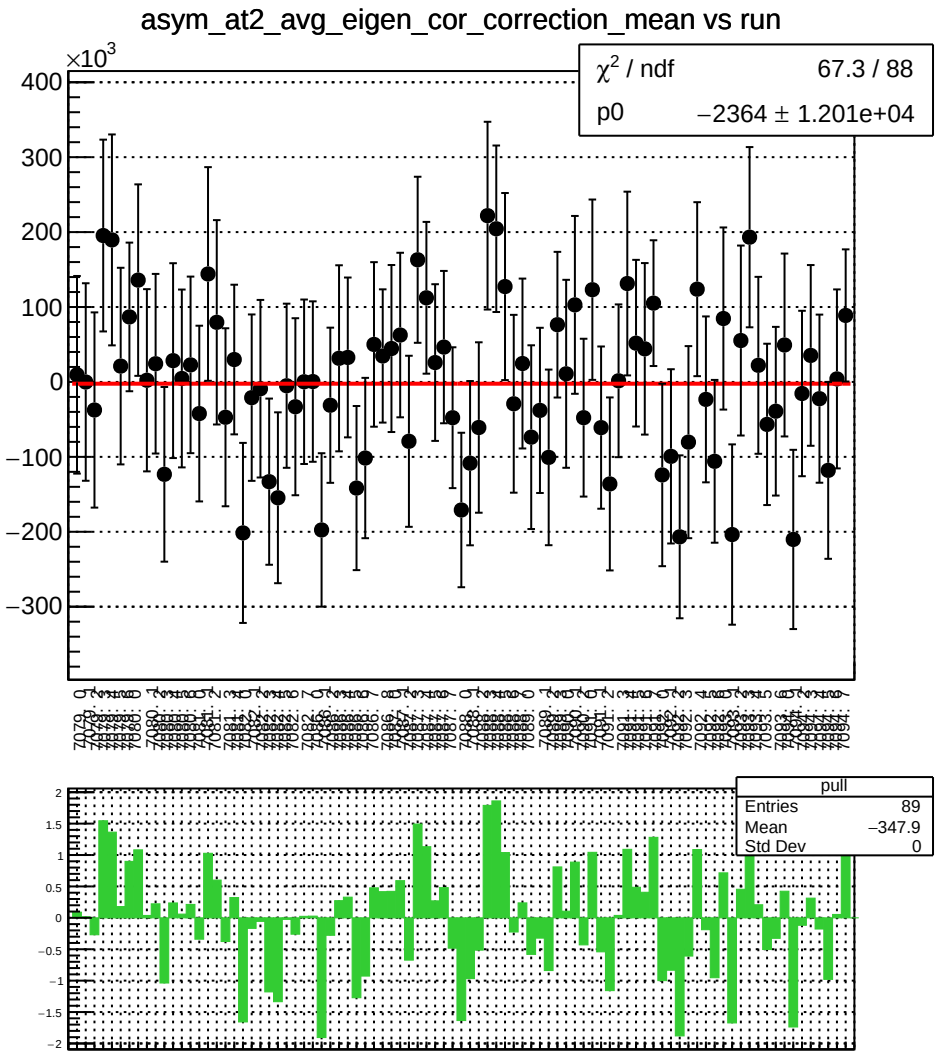

pull1D
Entries 89
Mean 0.004326
Std Dev 0.8696

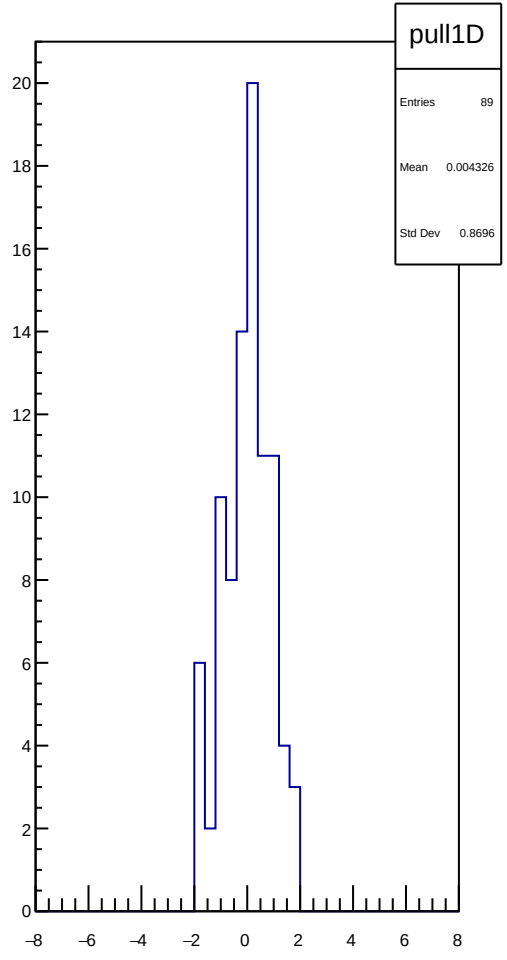

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 9726 / 88
p0 1.099e+04 ± 8.489
14000
13500
13000
12500
12000
11500
11000
10500
10000
9500

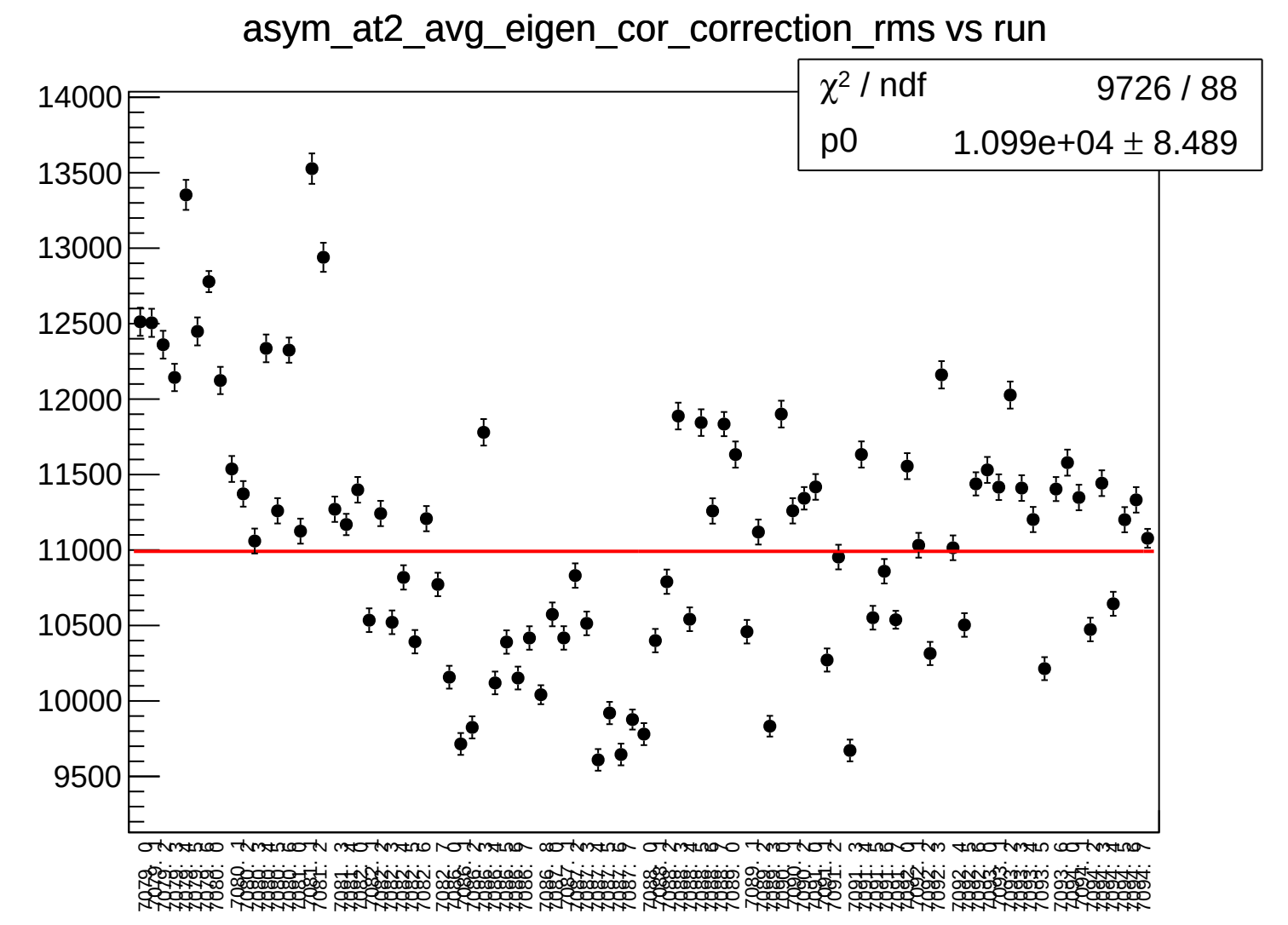

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 95.3 / 88
p0 −783.3 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 150.2
Std Dev 0
2
1
0
−1
−2
−3

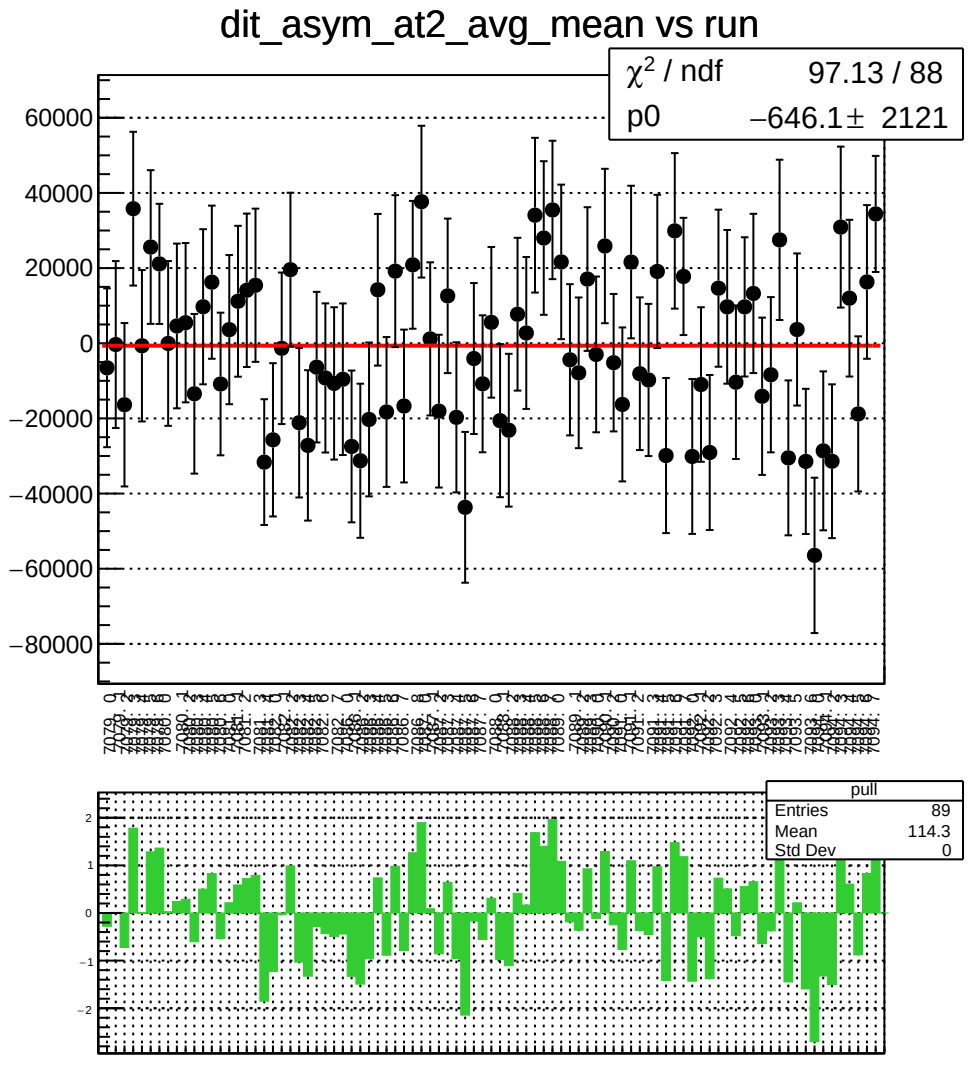

pull1D
Entries 89
Mean −0.01366
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

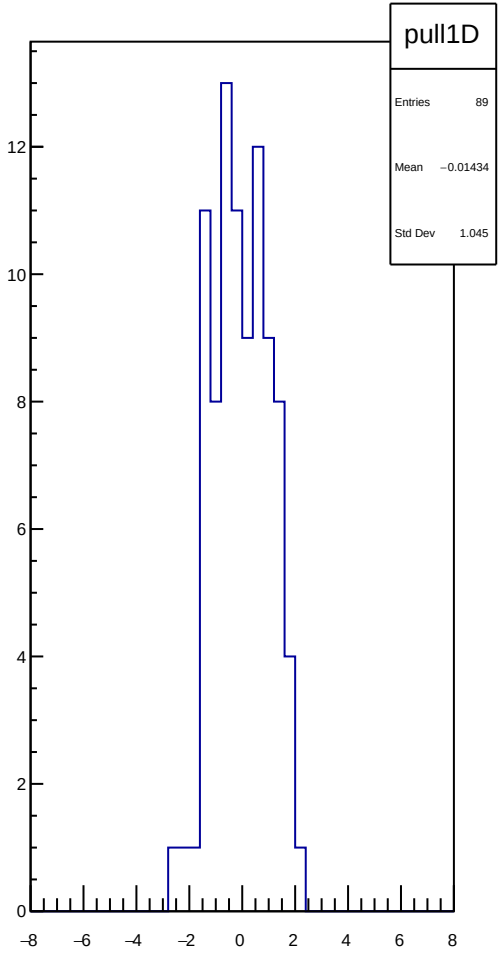

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 244.2 / 88
p0 1797 ± 1.384
1880
1860
1840
1820
1800
1780
1760
1740
1720

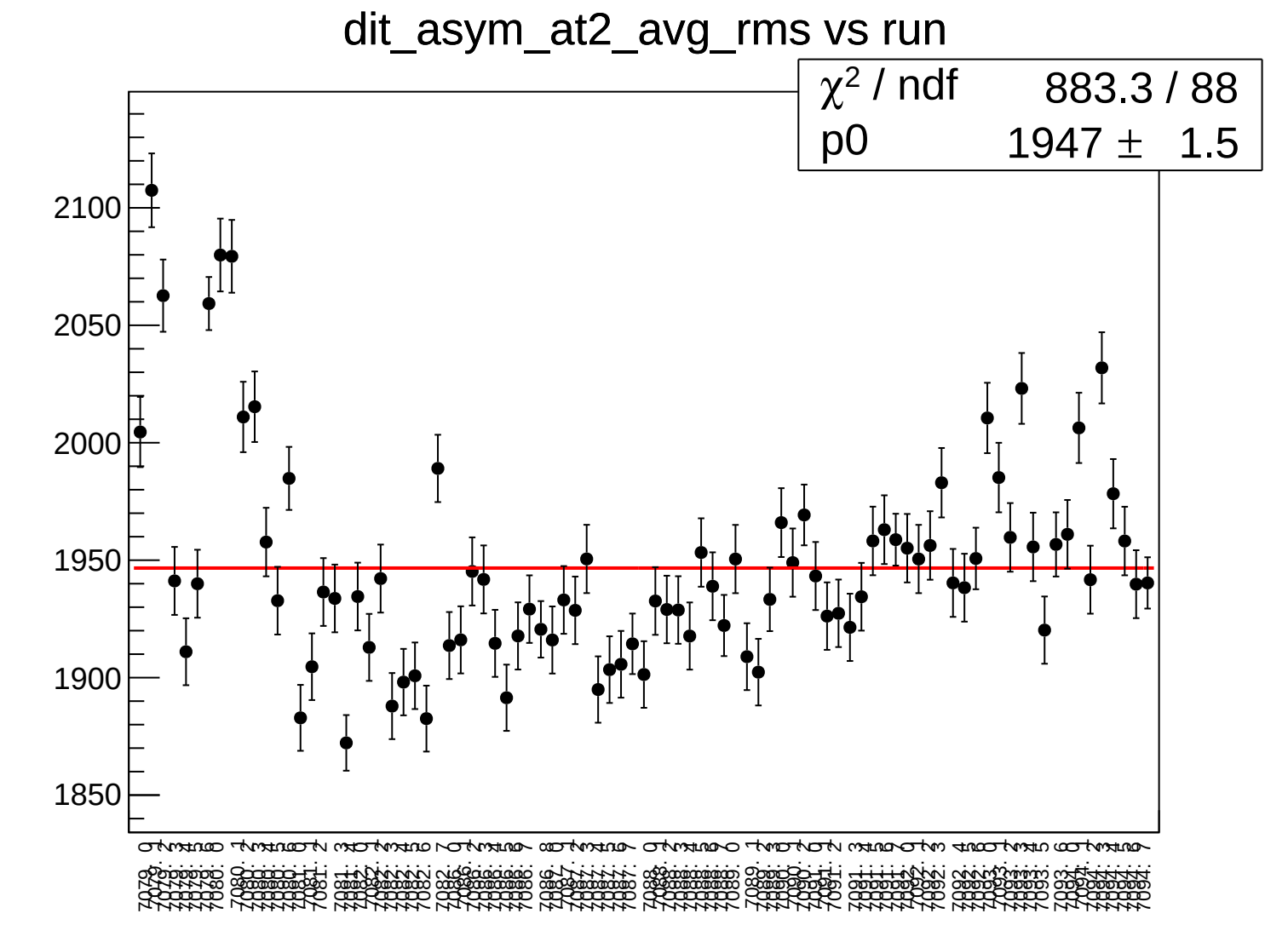

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.3 / 88
p0 −2364 ± 1.201e+04
pull
Entries 89
Mean −347.9
Std Dev 0

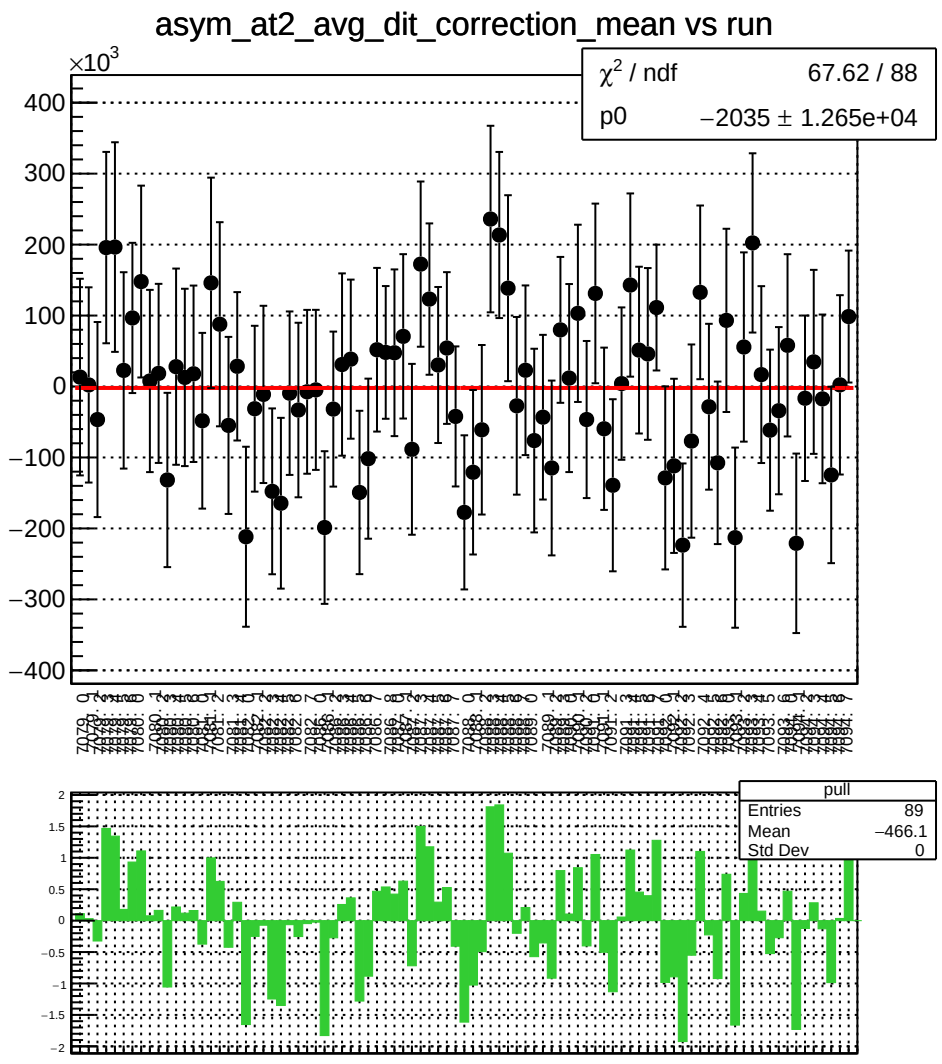

pull1D
Entries 89
Mean 0.004326
Std Dev 0.8696

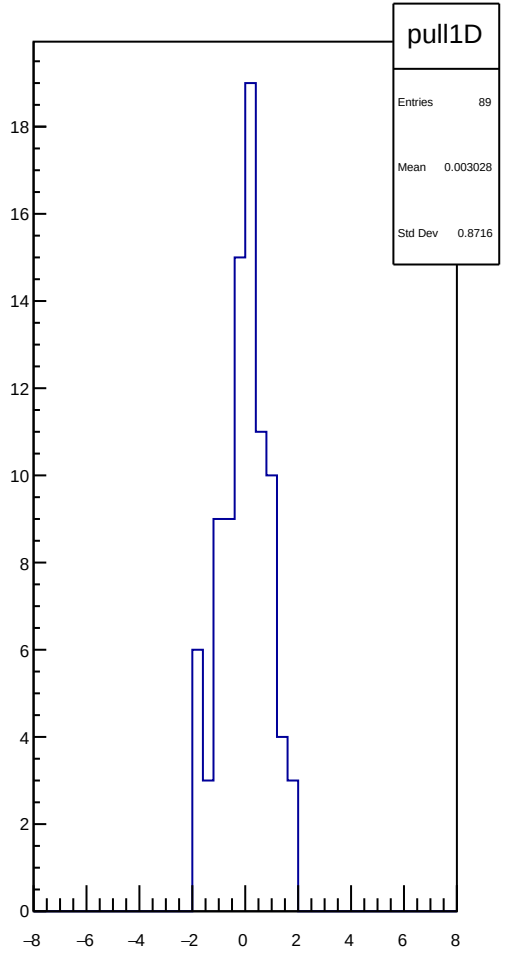

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9726 / 88
p0 1.099e+04 ± 8.489
14000
13500
13000
12500
12000
11500
11000
10500
10000
9500

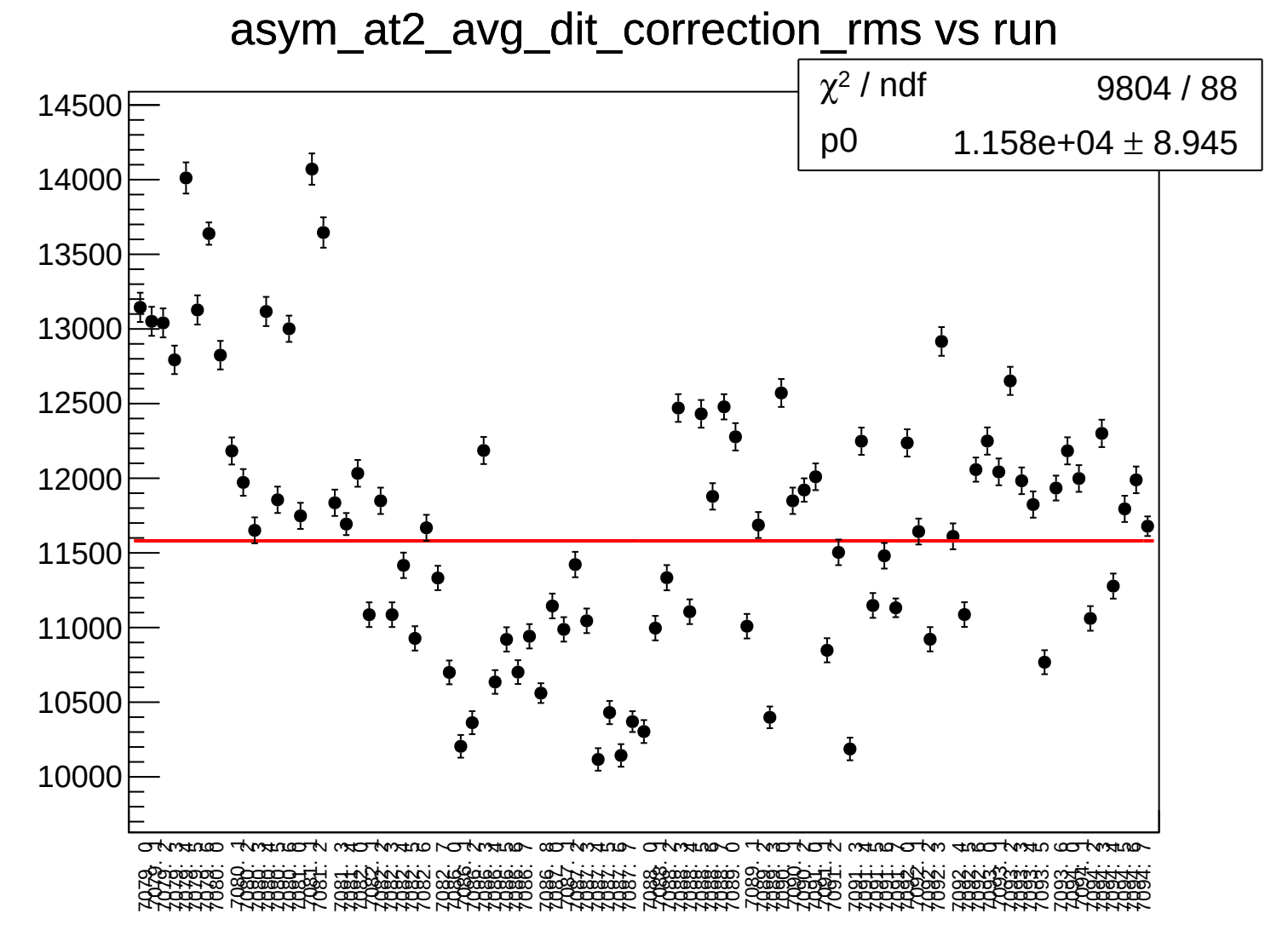

dit_asym_at2_avg_mean vs run
χ² / ndf 97.13 / 88
p0 −646.1± 2121
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 114.3
Std Dev 0
2
1
0
−1
−2

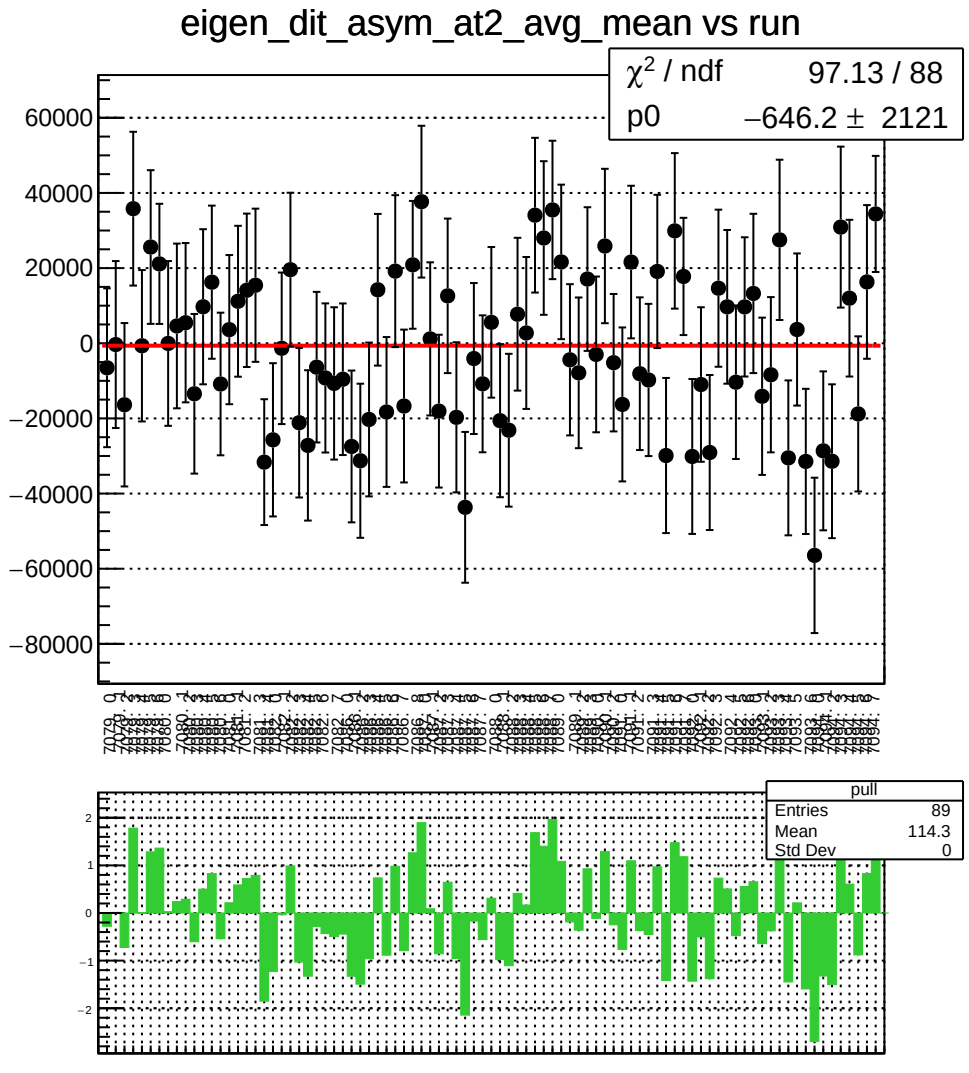

pull1D
Entries 89
Mean −0.01434
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

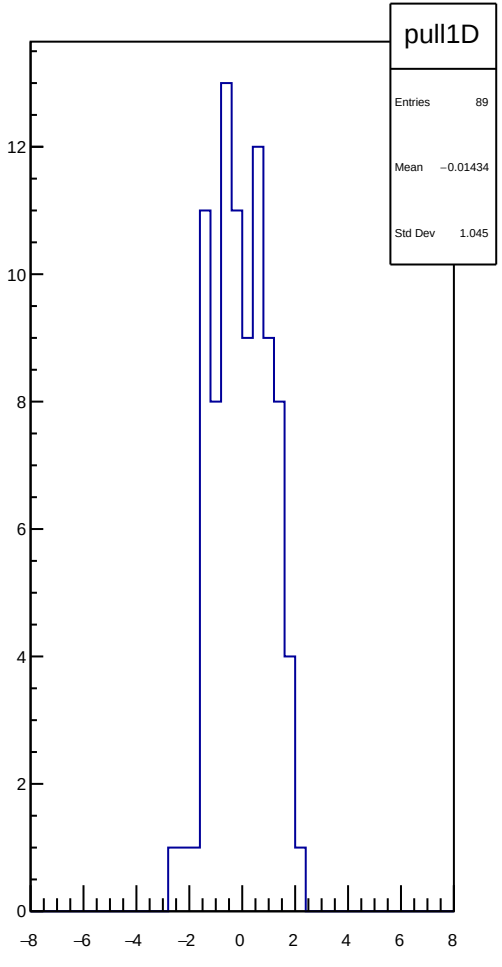

dit_asym_at2_avg_rms vs run
χ² / ndf 883.3 / 88
p0 1947 ± 1.5
2100
2050
2000
1950
1900
1850

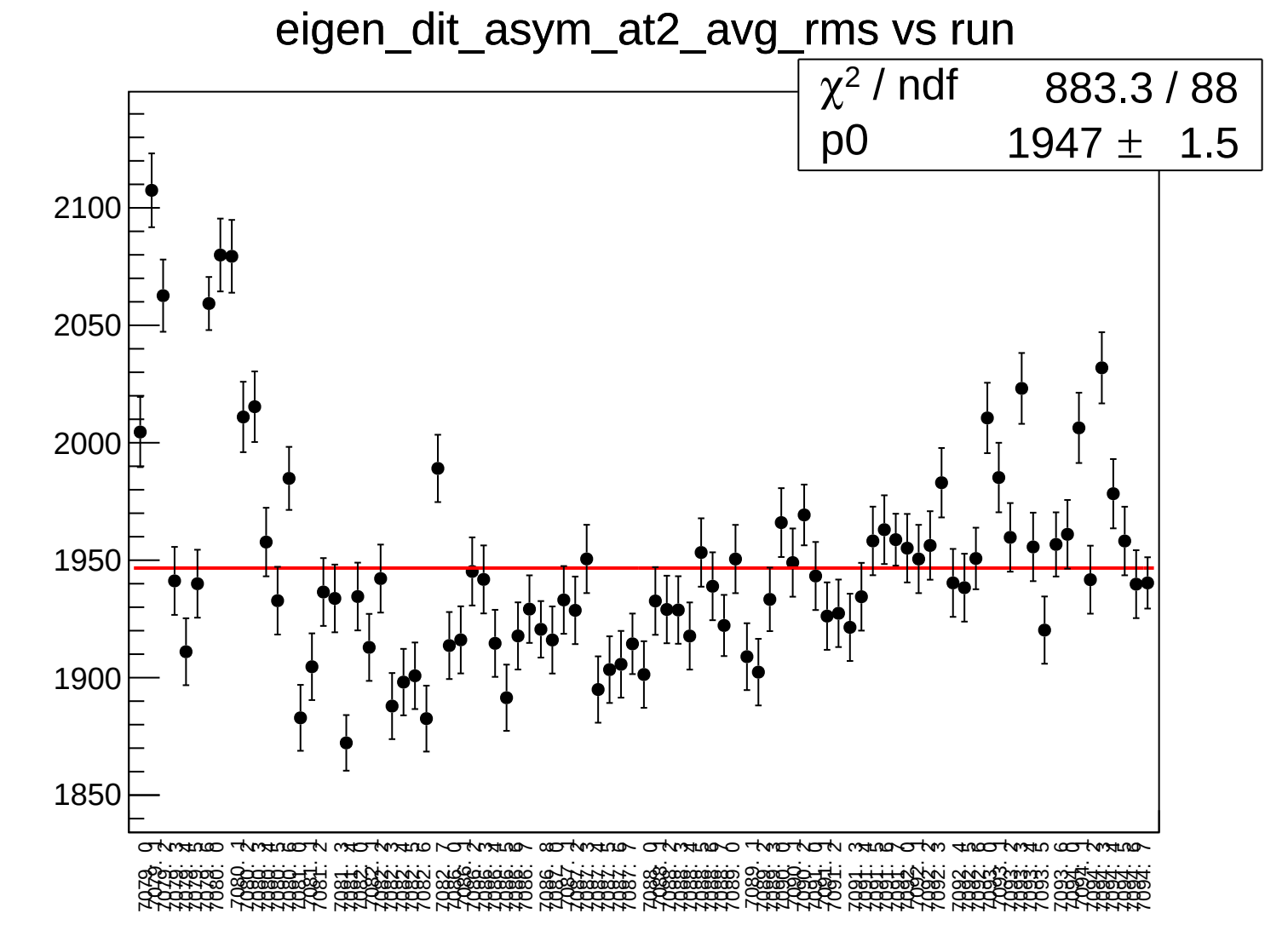

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 67.62 / 88
p0 −2035 ± 1.265e+04
pull
Entries 89
Mean −466.1
Std Dev 0

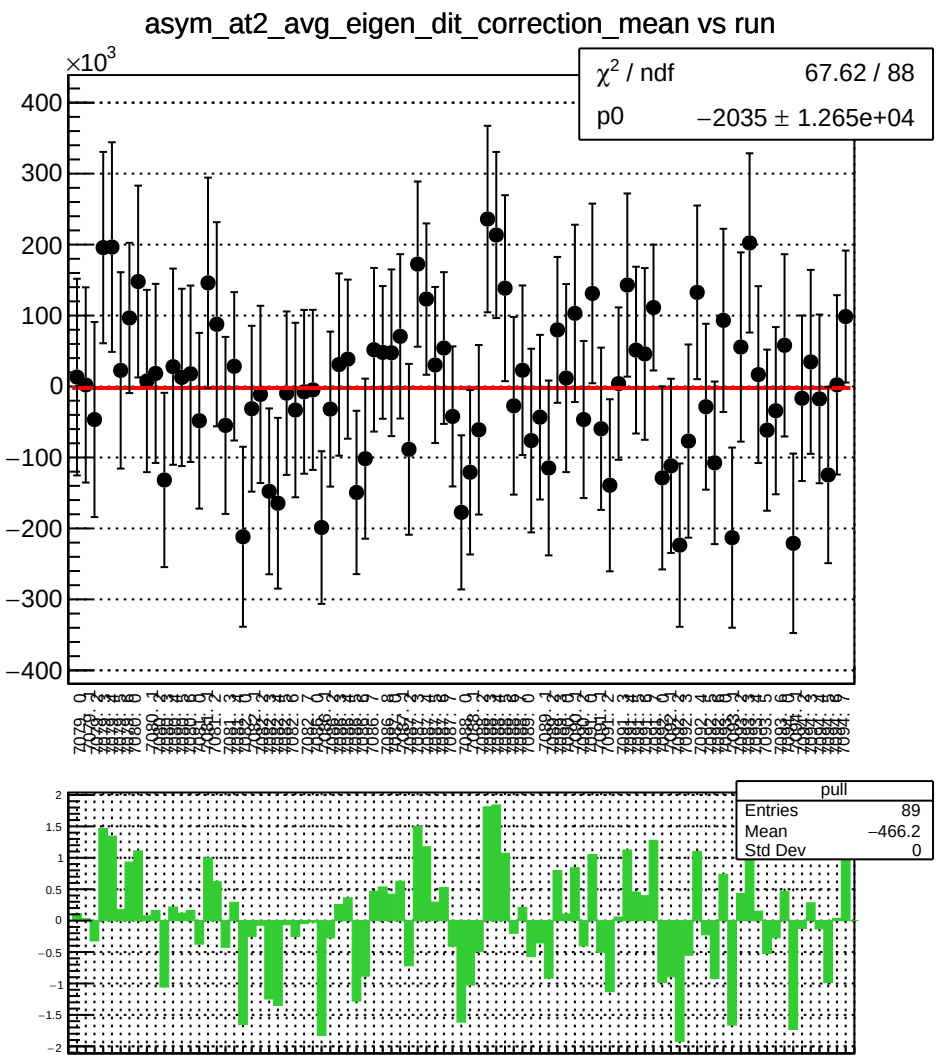

pull1D
Entries 89
Mean 0.003028
Std Dev 0.8716

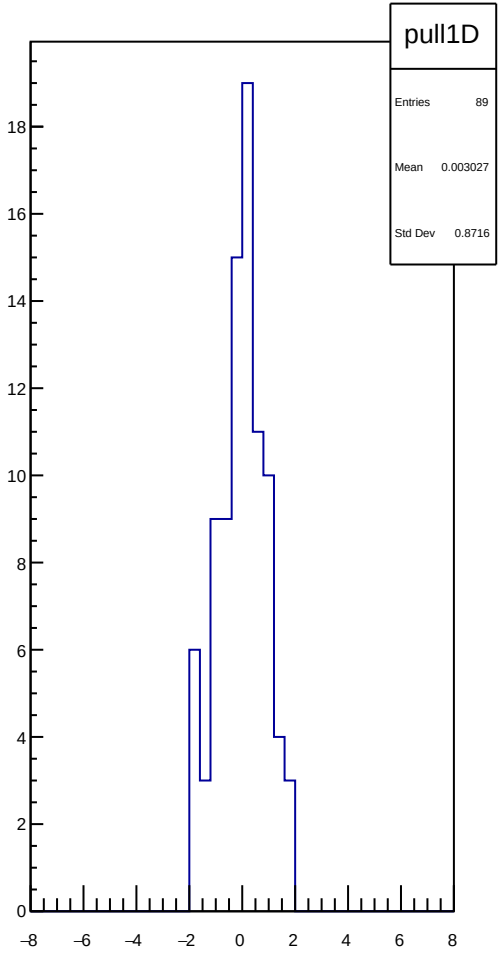

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 9804 / 88
p0 1.158e+04 ± 8.945
14500
14000
13500
13000
12500
12000
11500
11000
10500
10000

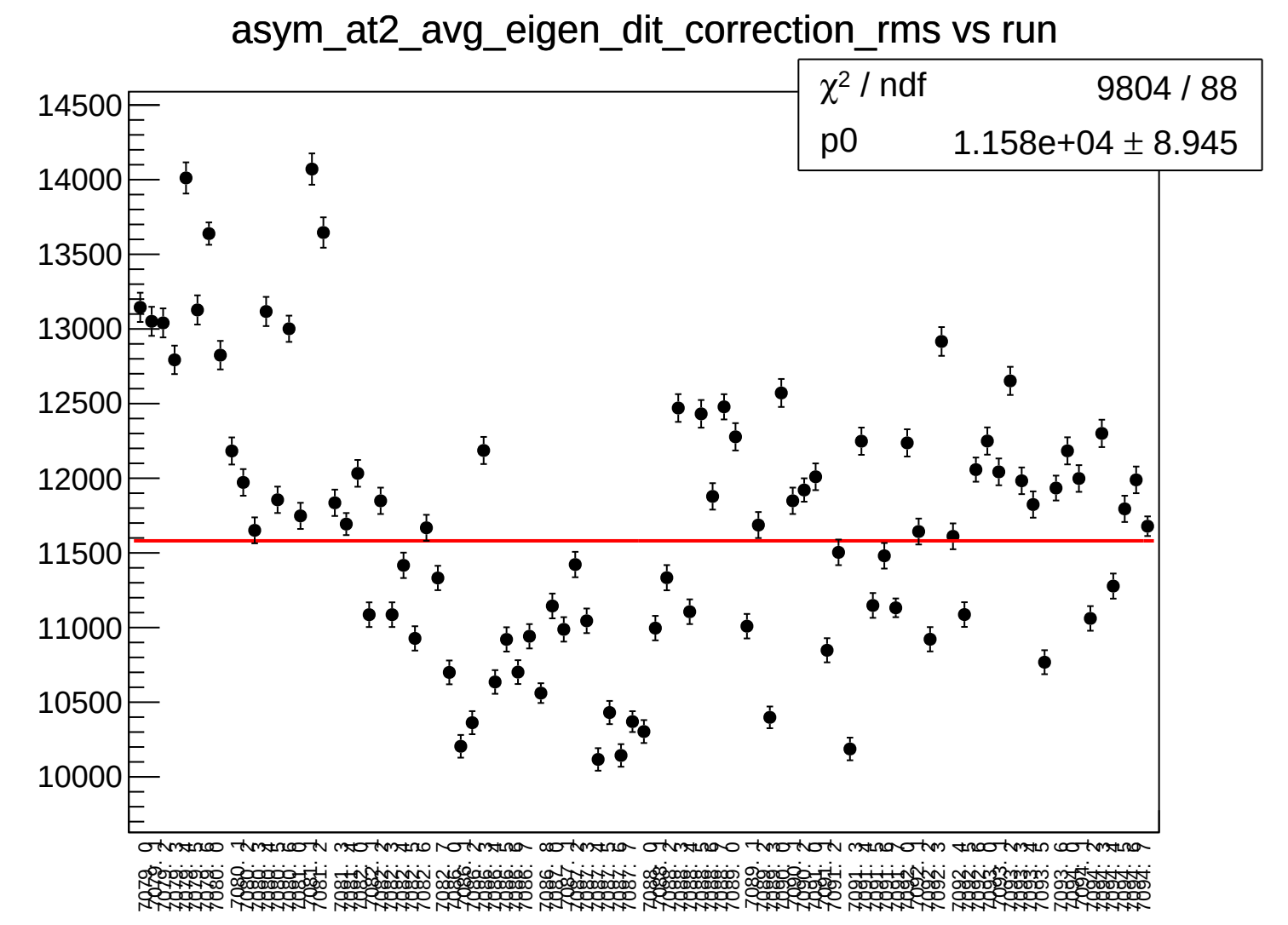

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 97.13 / 88
p0 −646.2 ± 2121
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 114.3
Std Dev 0
2
1
0
−1
−2

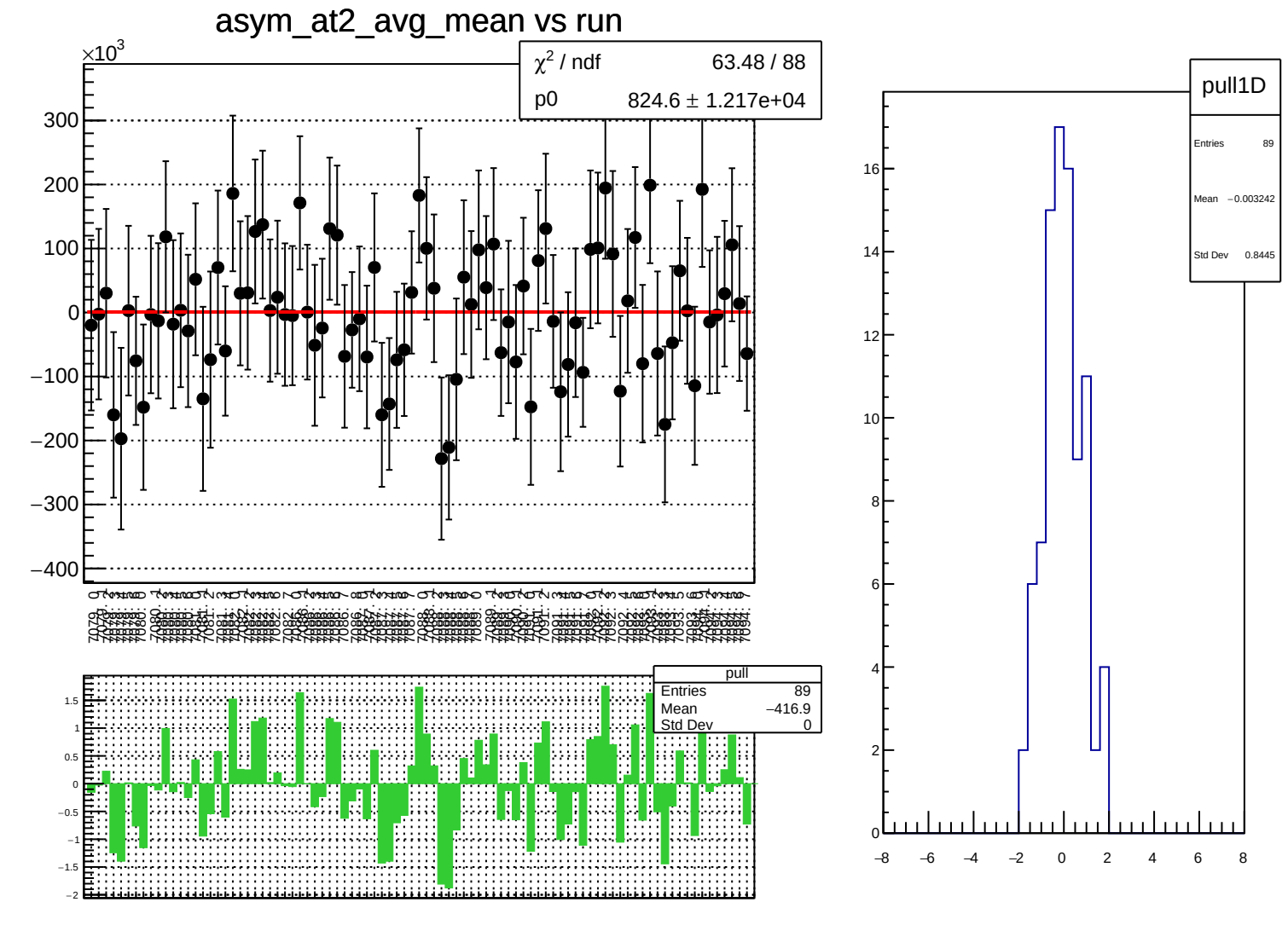

pull1D
Entries 89
Mean −0.01434
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

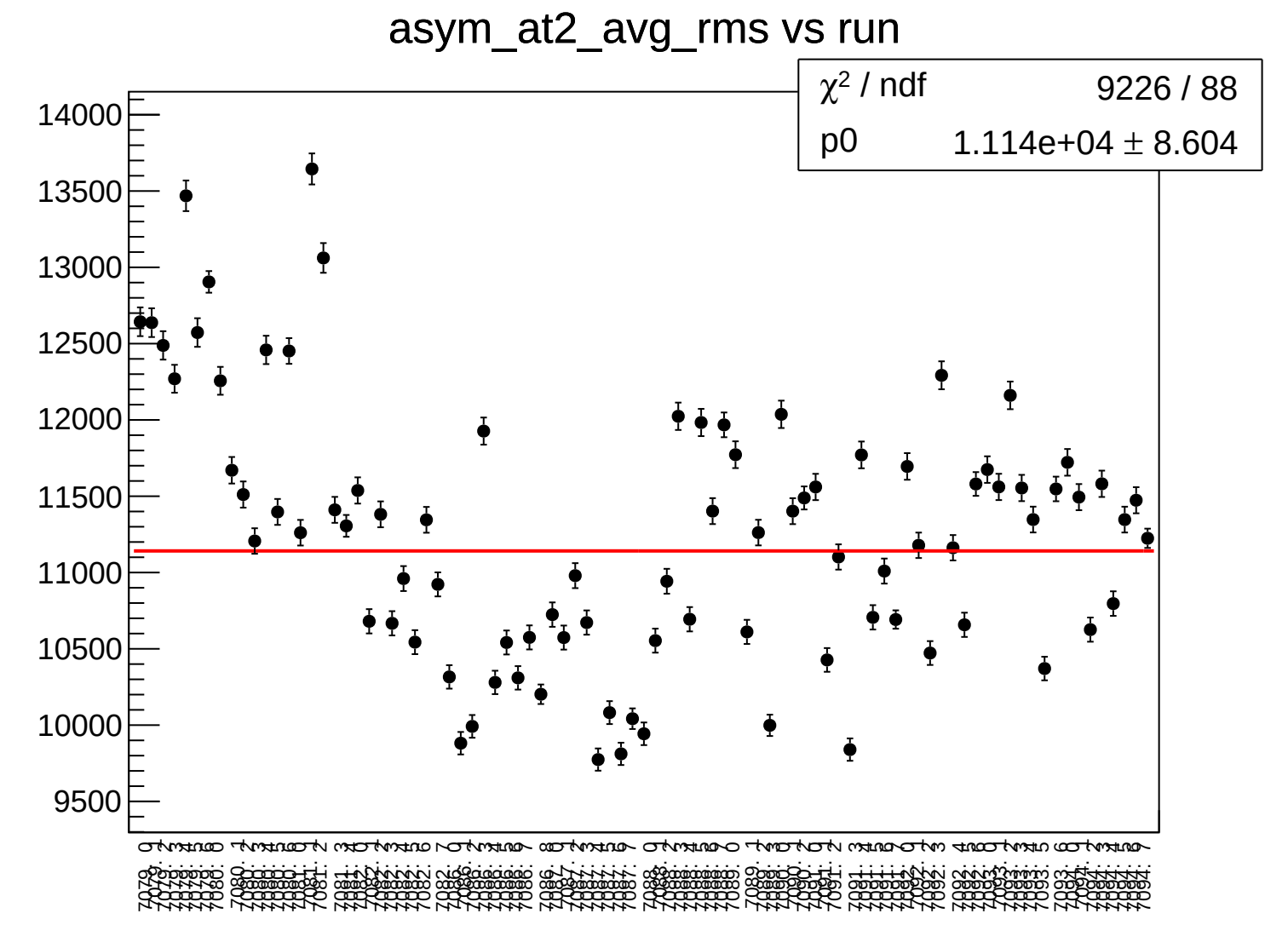

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 883.3 / 88
p0 1947 ± 1.5
2100
2050
2000
1950
1900
1850

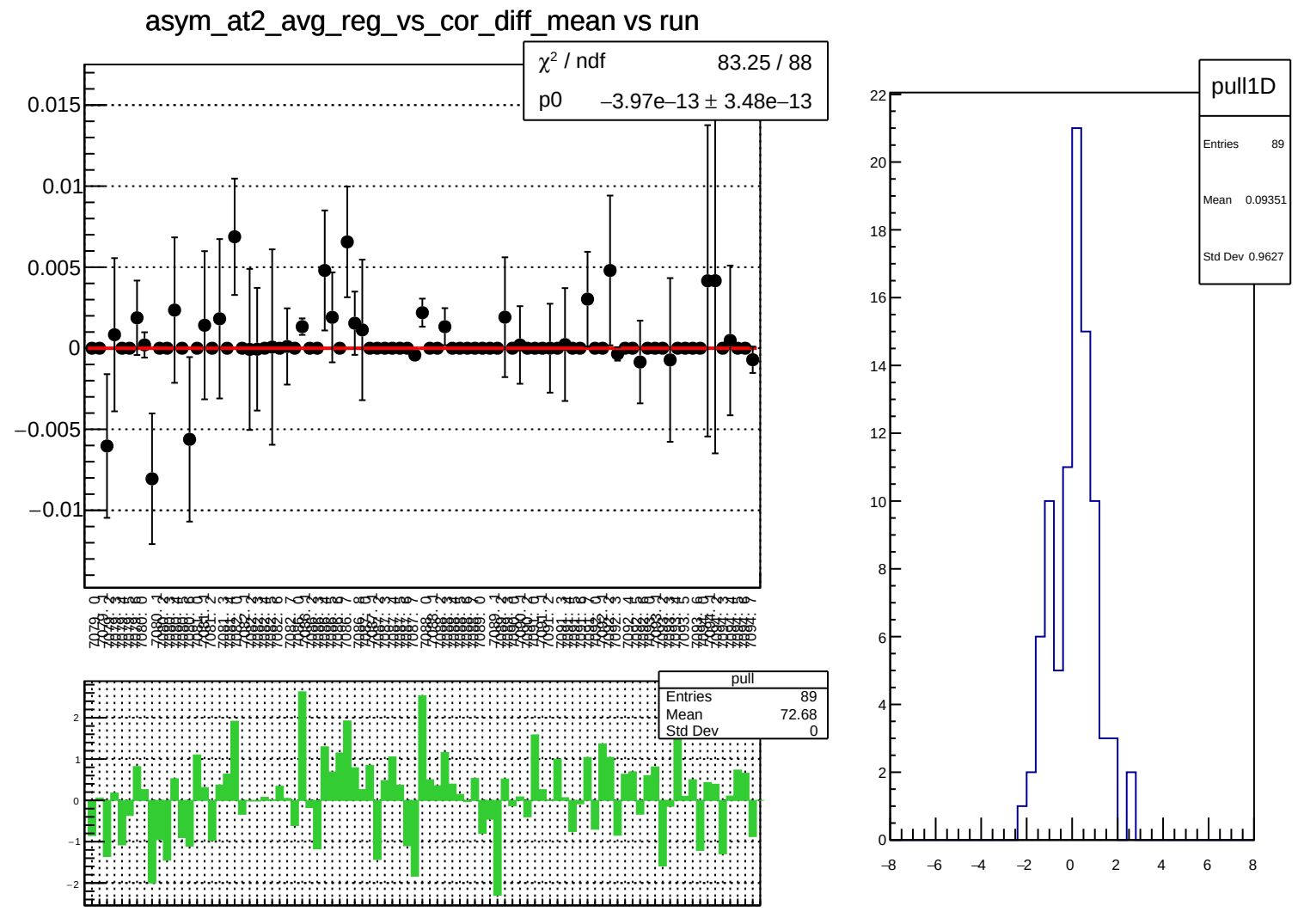

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.62 / 88
p0 −2035 ± 1.265e+04
pull
Entries 89
Mean −466.2
Std Dev 0

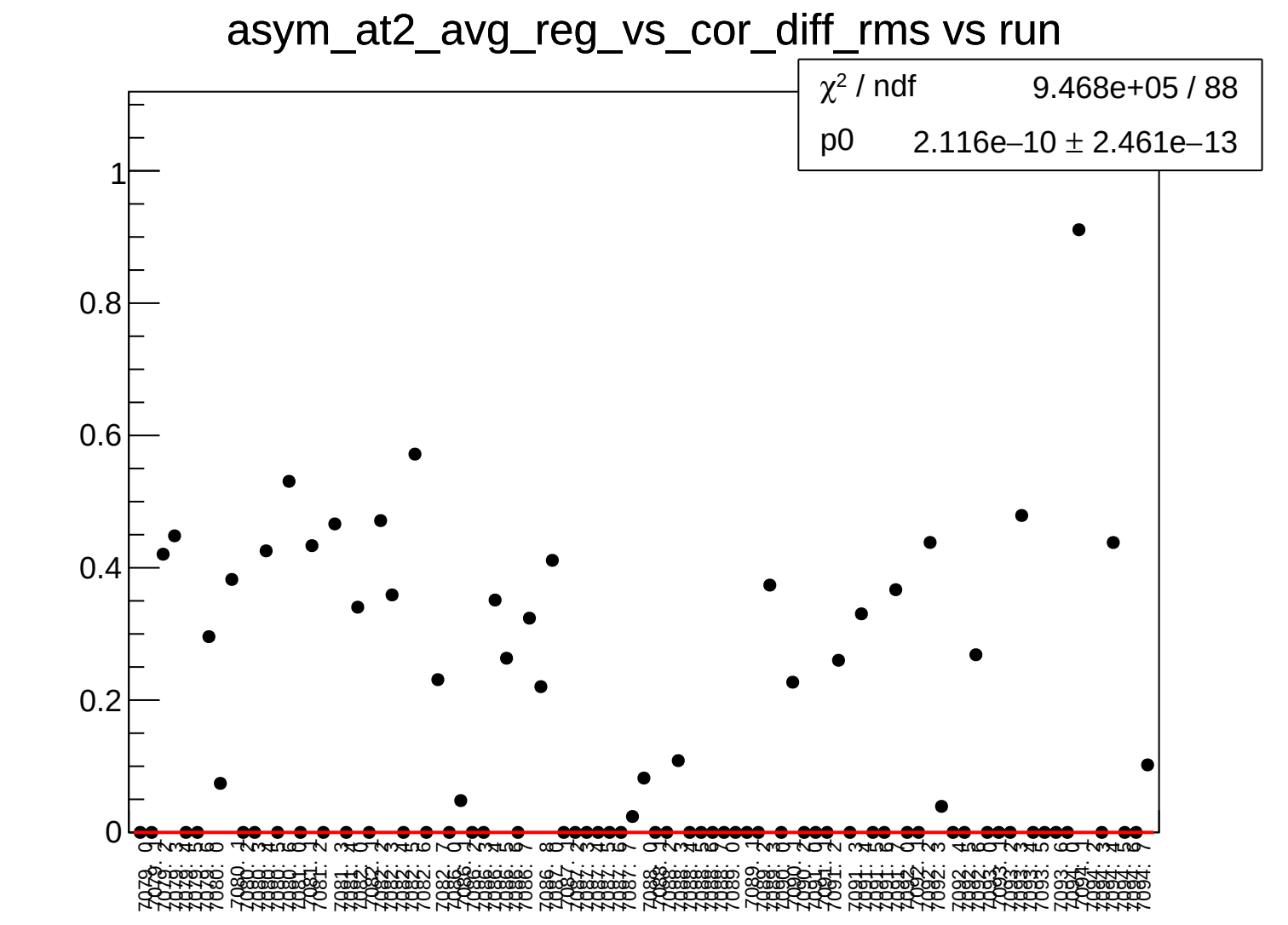

pull1D
Entries 89
Mean 0.003027
Std Dev 0.8716

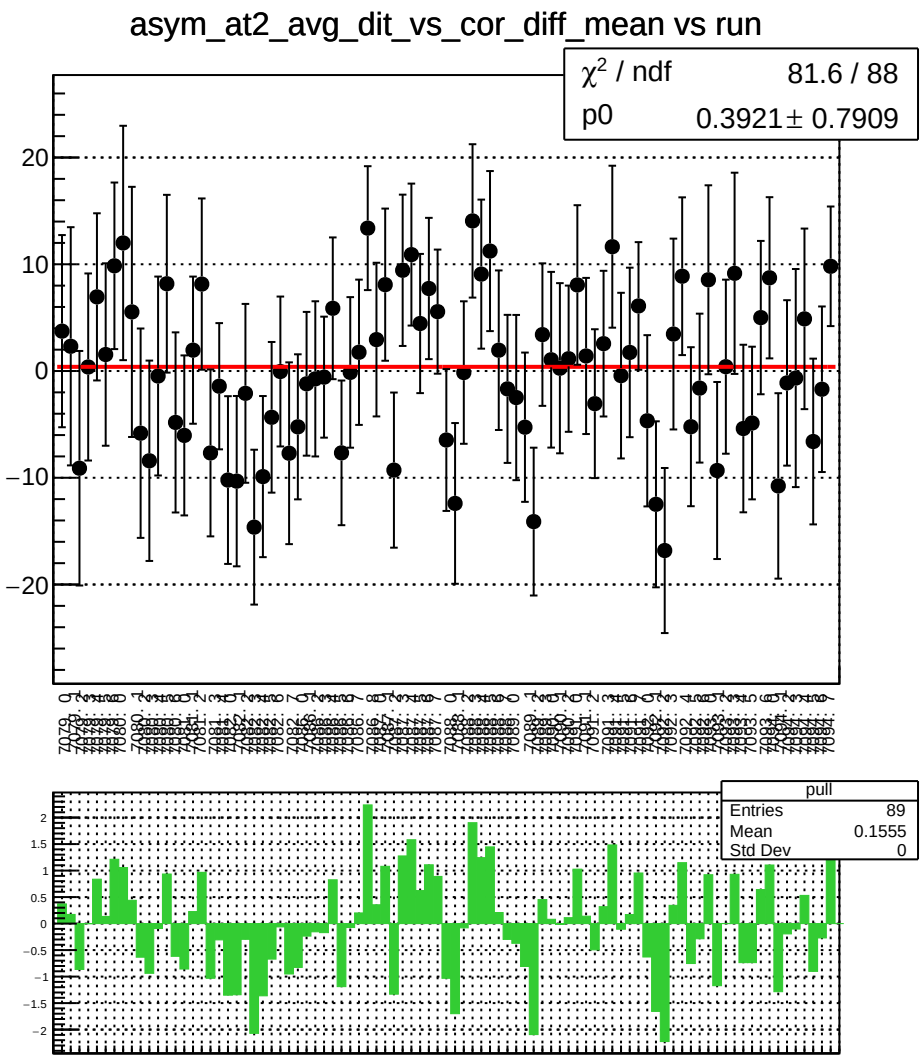

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 9804 / 88
p0 1.158e+04 ± 8.945
14500
14000
13500
13000
12500
12000
11500
11000
10500
10000

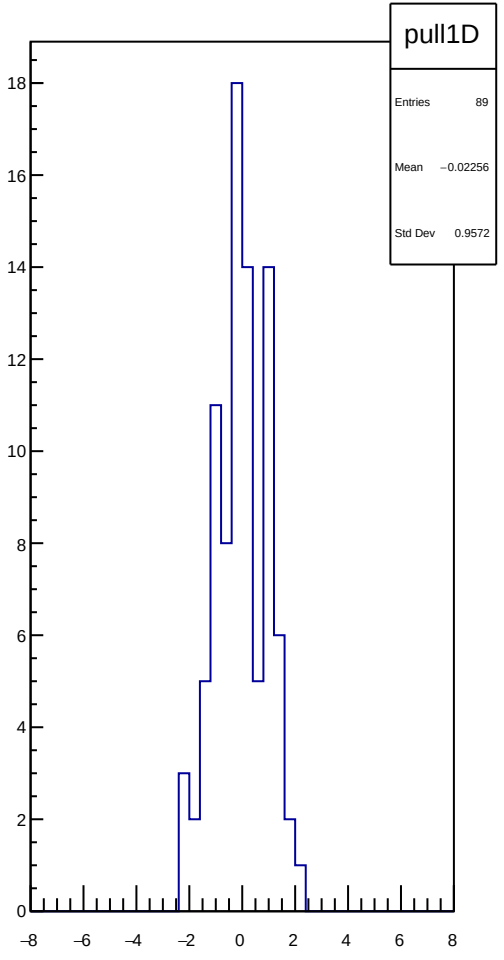

asym_at2_avg_mean vs run
×10^3
χ² / ndf 63.48 / 88
p0 824.6 ± 1.217e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean −416.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.003242
Std Dev 0.8445
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

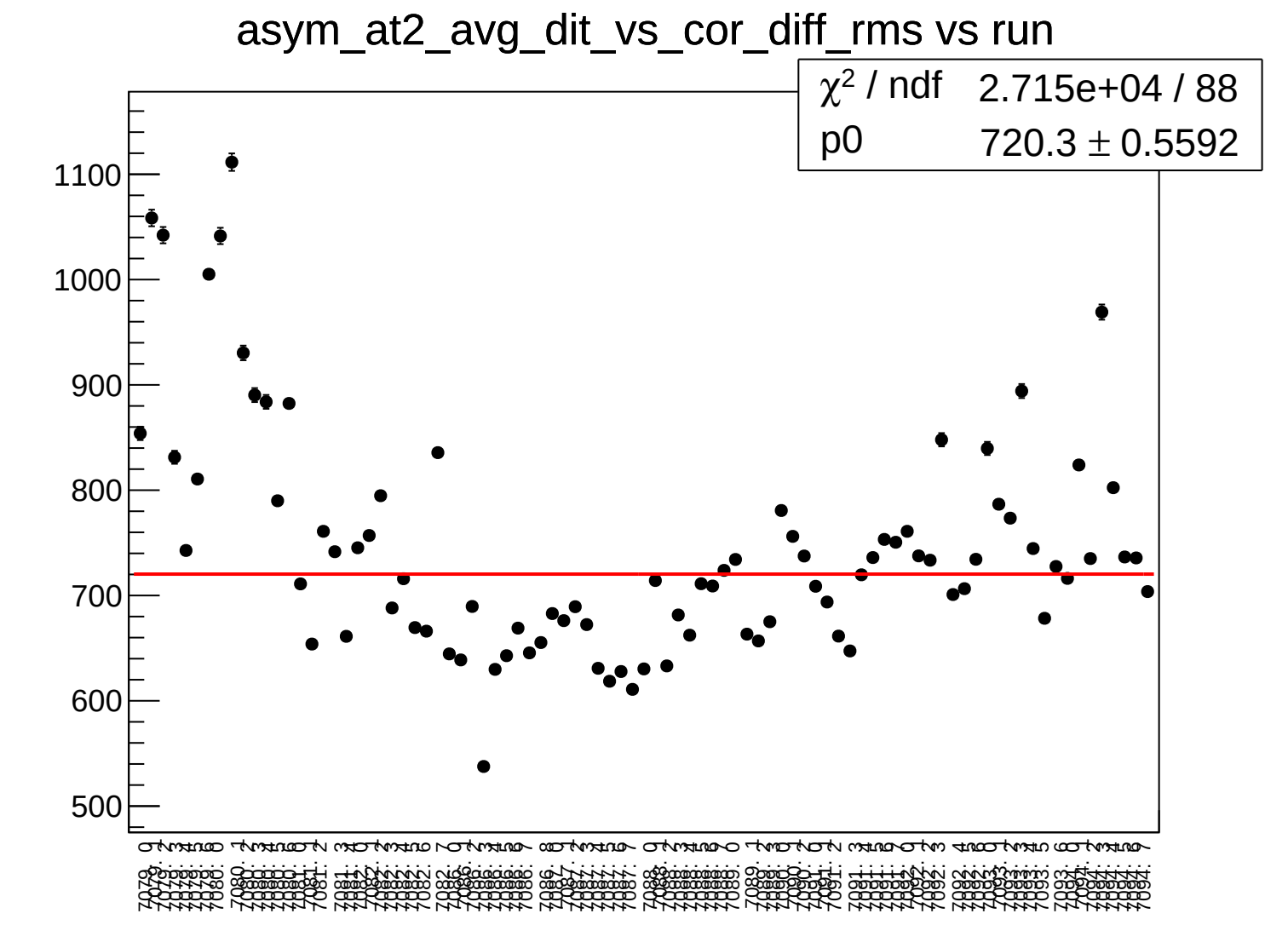

asym_at2_avg_rms vs run
χ² / ndf 9226 / 88
p0 1.114e+04 ± 8.604
14000
13500
13000
12500
12000
11500
11000
10500
10000
9500

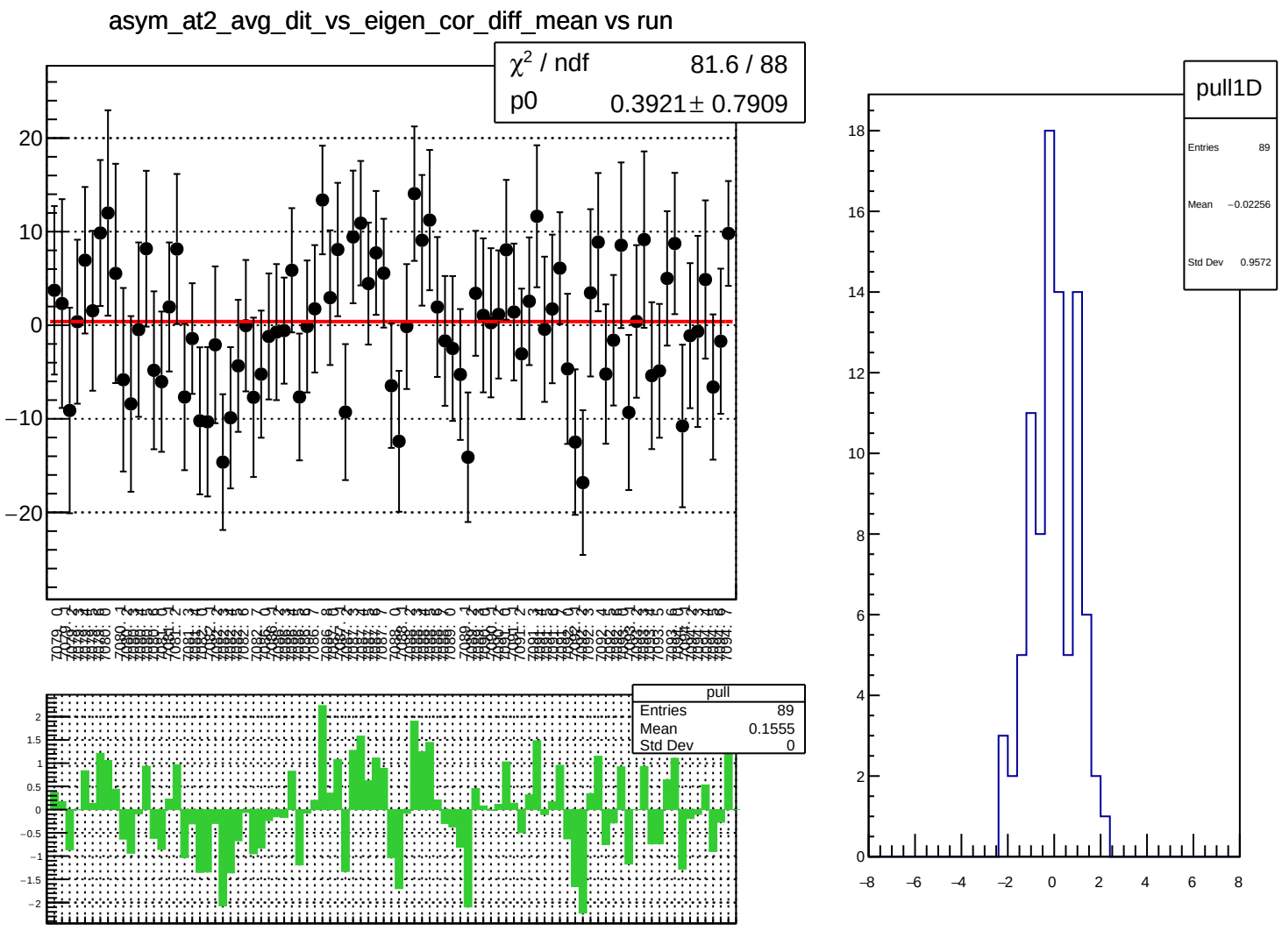

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.25 / 88
p0 −3.97e−13 ± 3.48e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 72.68
Std Dev 0
pull1D
Entries 89
Mean 0.09351
Std Dev 0.9627

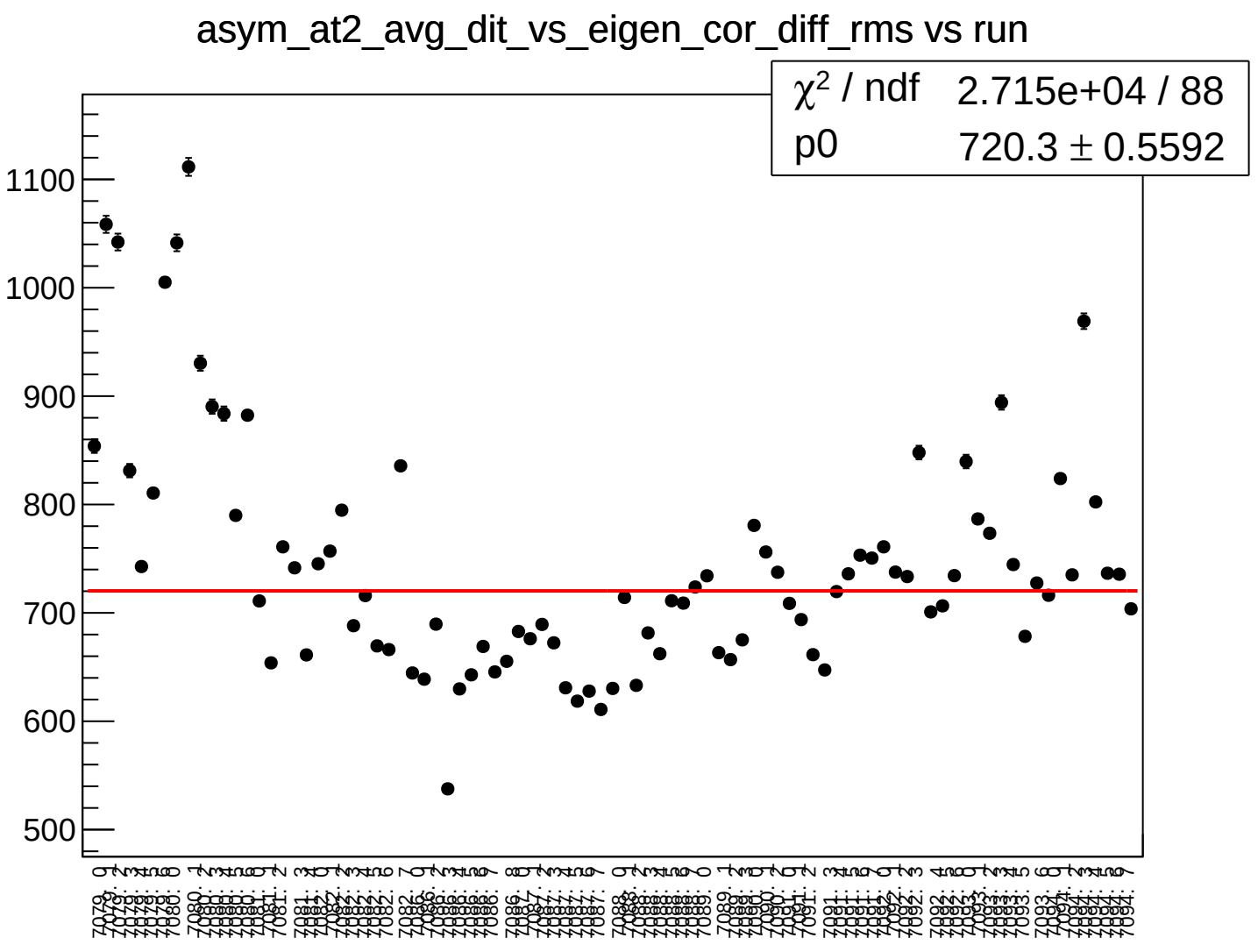

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.468e+05 / 88
p0 2.116e−10 ± 2.461e−13
1
0.8
0.6
0.4
0.2
0

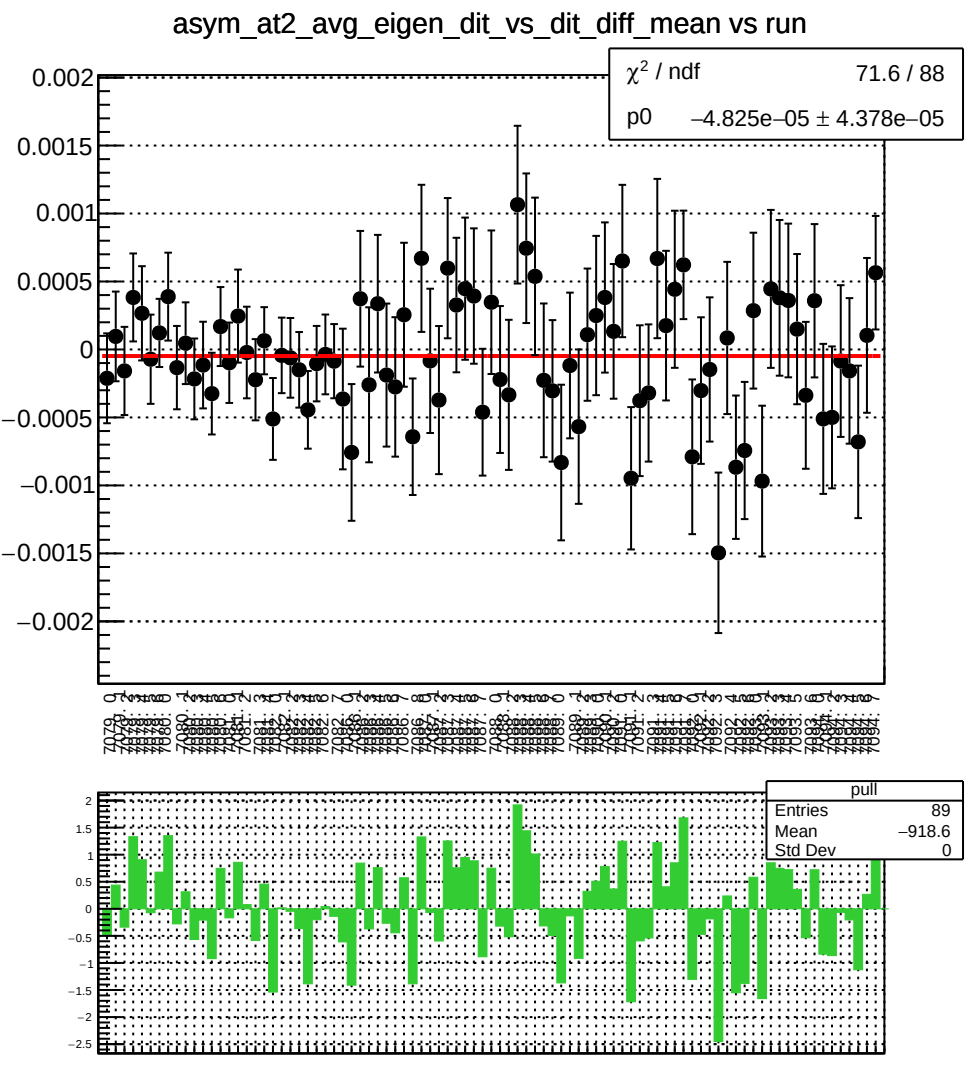

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.6 / 88
p0 0.3921 ± 0.7909
pull
Entries 89
Mean 0.1555
Std Dev 0

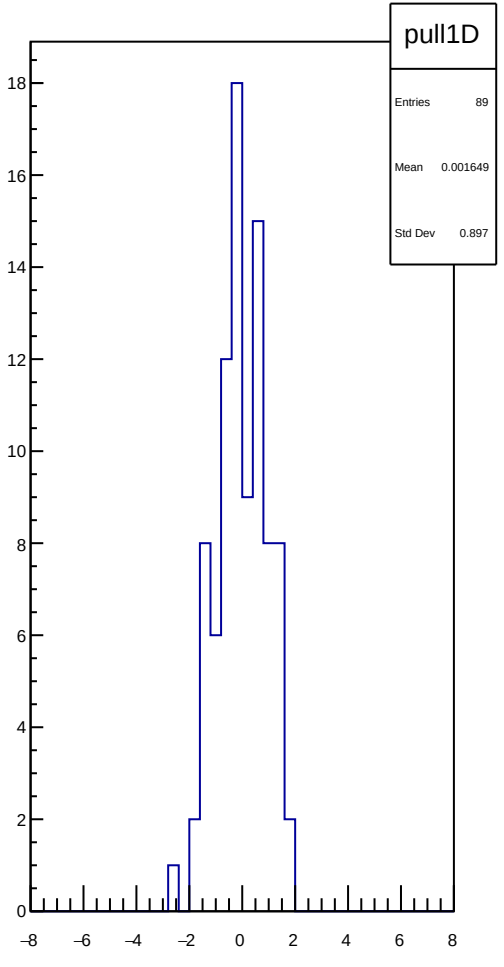

pull1D
Entries 89
Mean −0.02256
Std Dev 0.9572

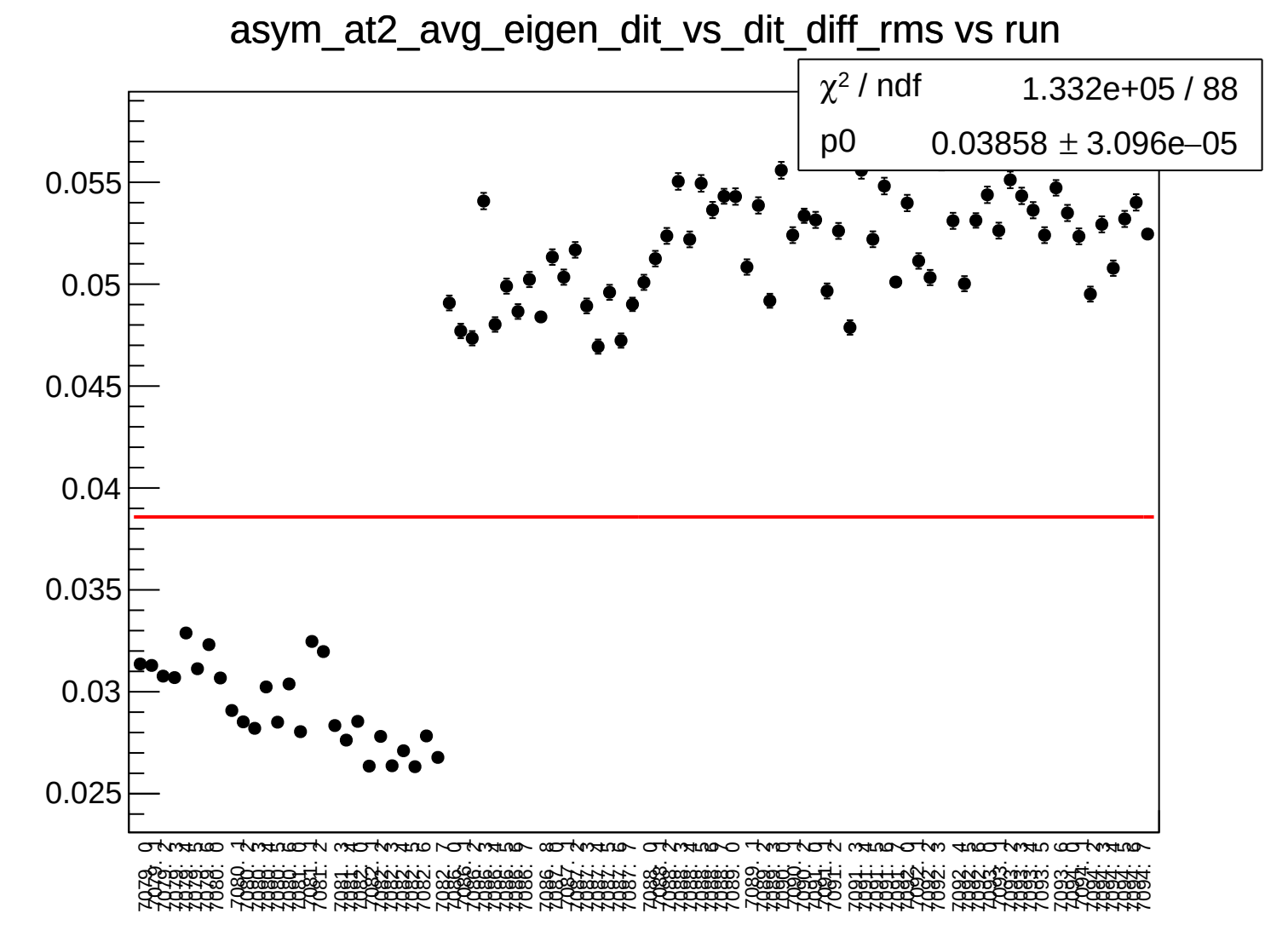

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 88
p0 720.3 ± 0.5592
1100
1000
900
800
700
600
500

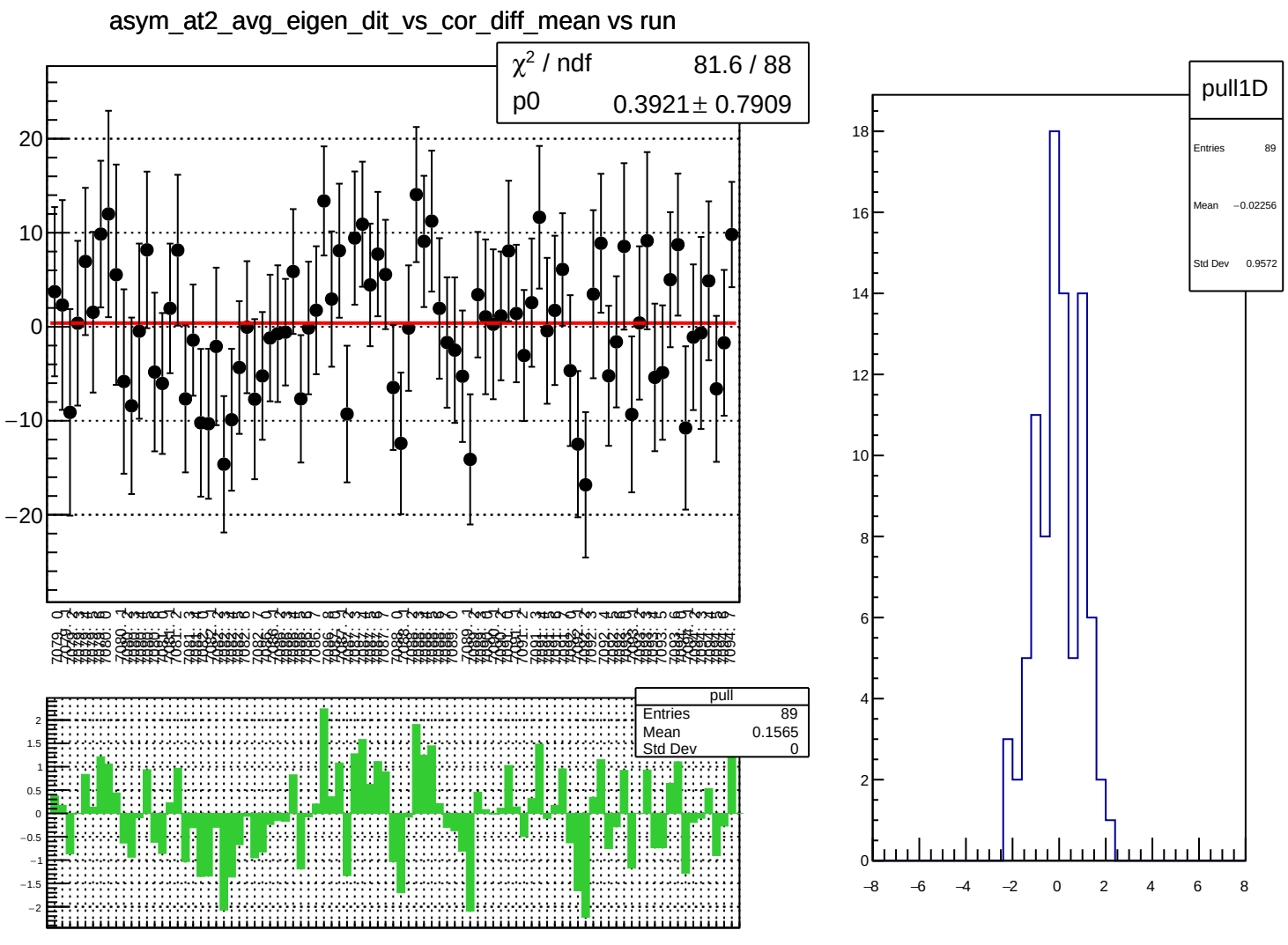

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.6 / 88
p0 0.3921 ± 0.7909
pull
Entries 89
Mean 0.1555
Std Dev 0
pull1D
Entries 89
Mean −0.02256
Std Dev 0.9572

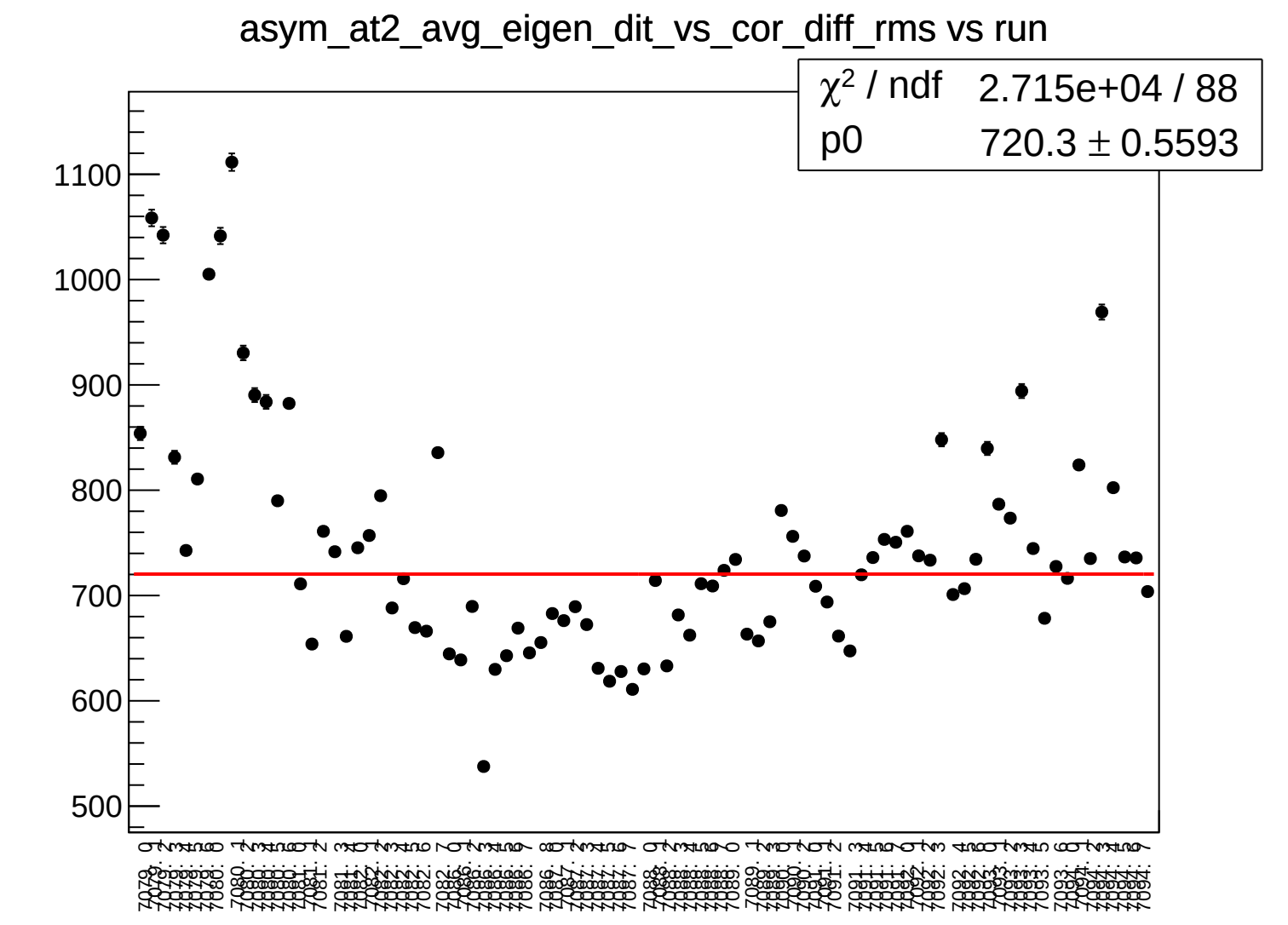

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 88
p0 720.3 ± 0.5592
1100
1000
900
800
700
600
500

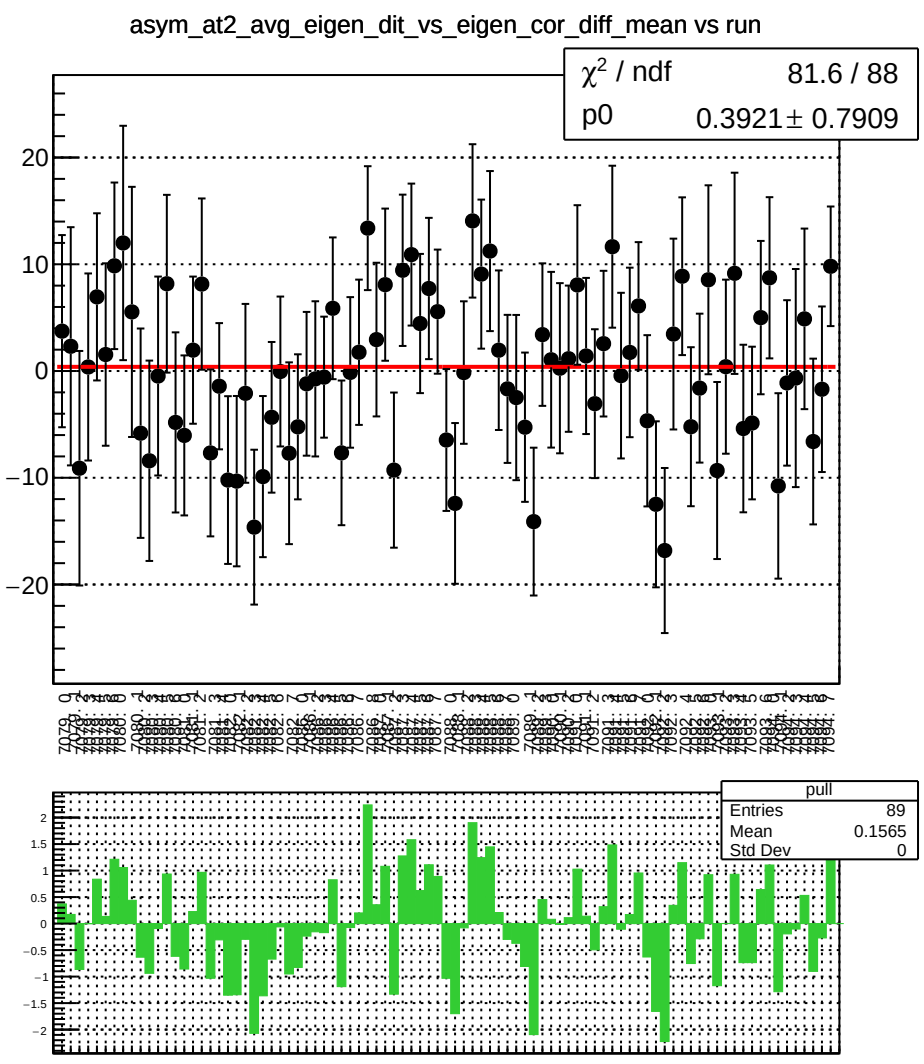

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.6 / 88
p0 −4.825e−05 ± 4.378e−05
pull
Entries 89
Mean −918.6
Std Dev 0

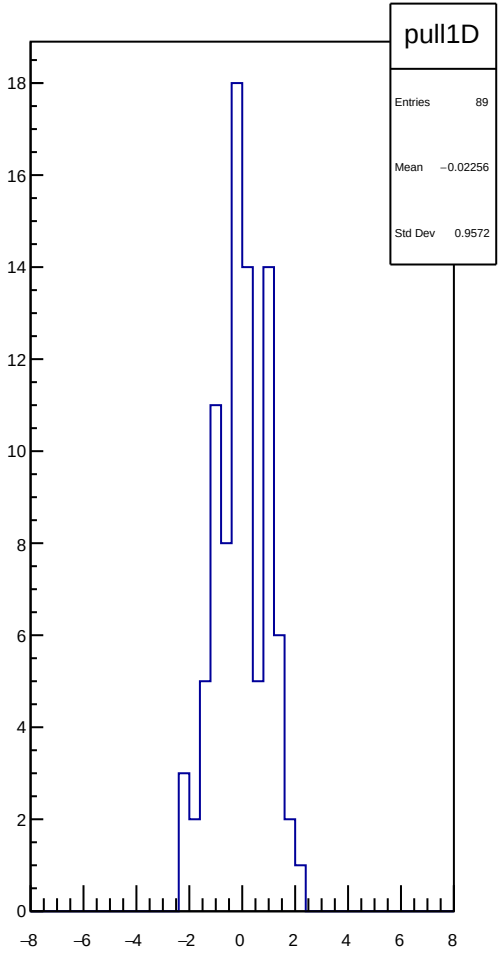

pull1D
Entries 89
Mean 0.001649
Std Dev 0.897

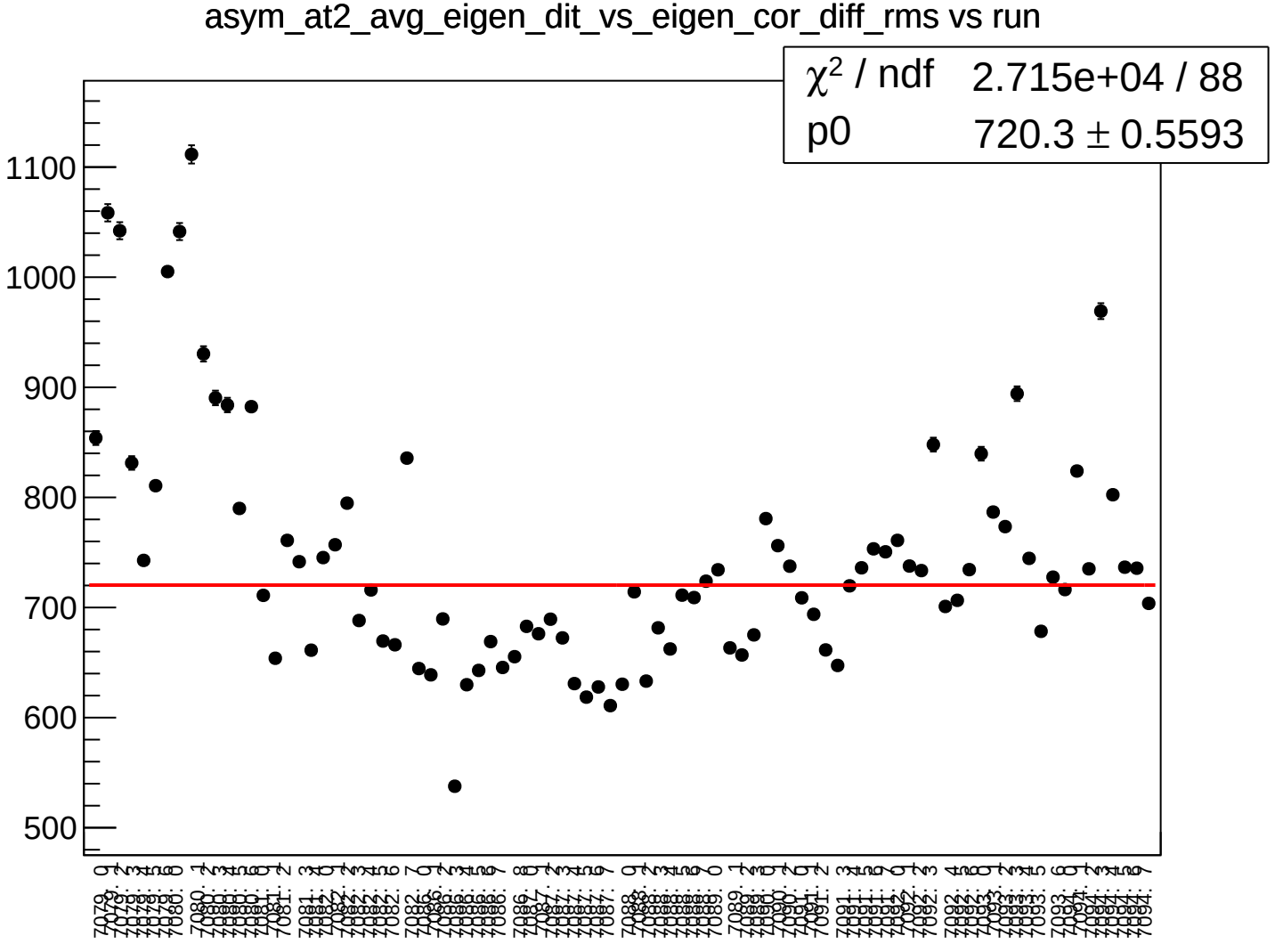

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.332e+05 / 88
p0 0.03858 ± 3.096e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025

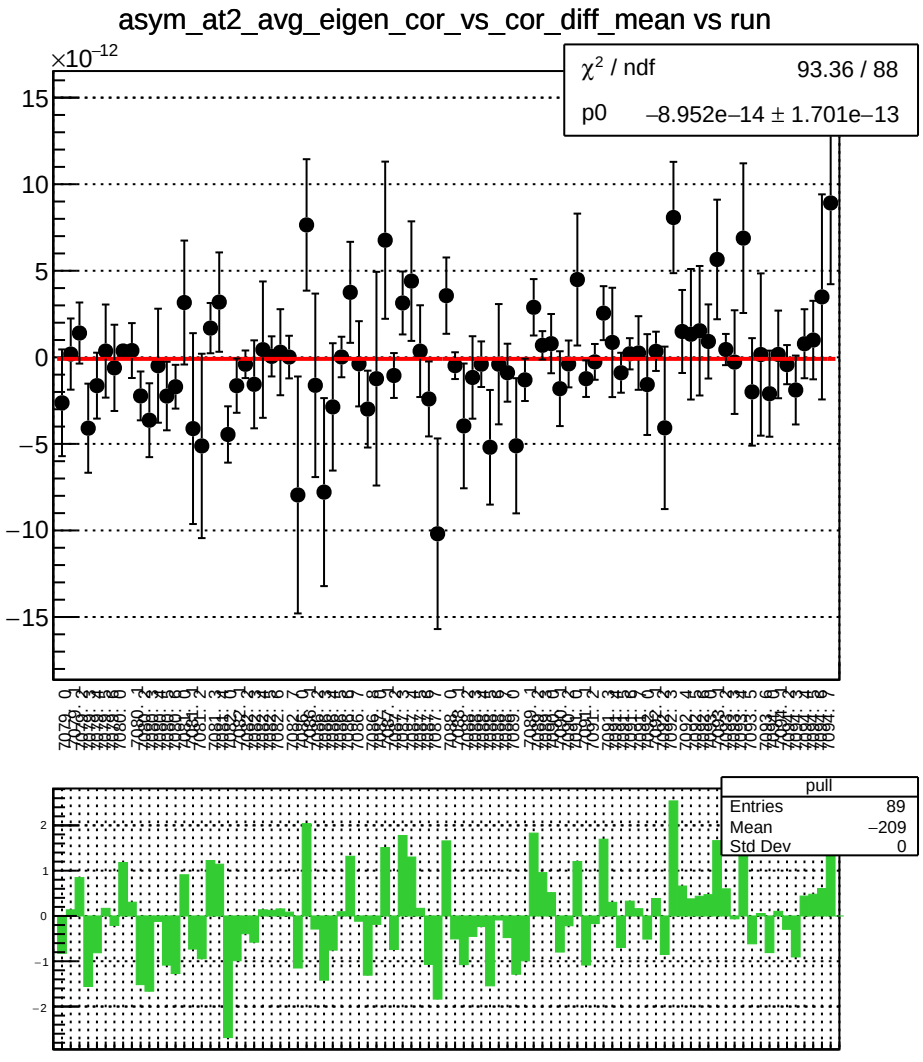

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.6 / 88
p0 0.3921 ± 0.7909
pull
Entries 89
Mean 0.1565
Std Dev 0
pull1D
Entries 89
Mean −0.02256
Std Dev 0.9572

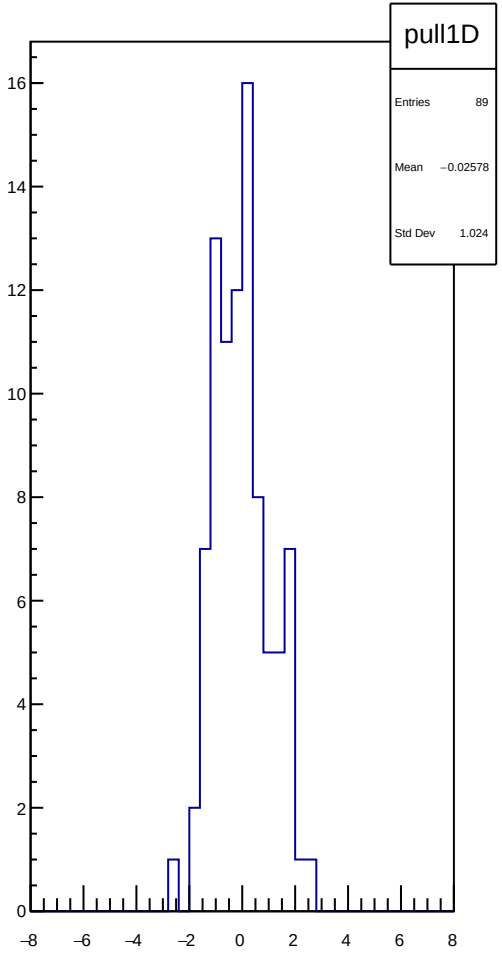

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 88
p0 720.3 ± 0.5593
1100
1000
900
800
700
600
500

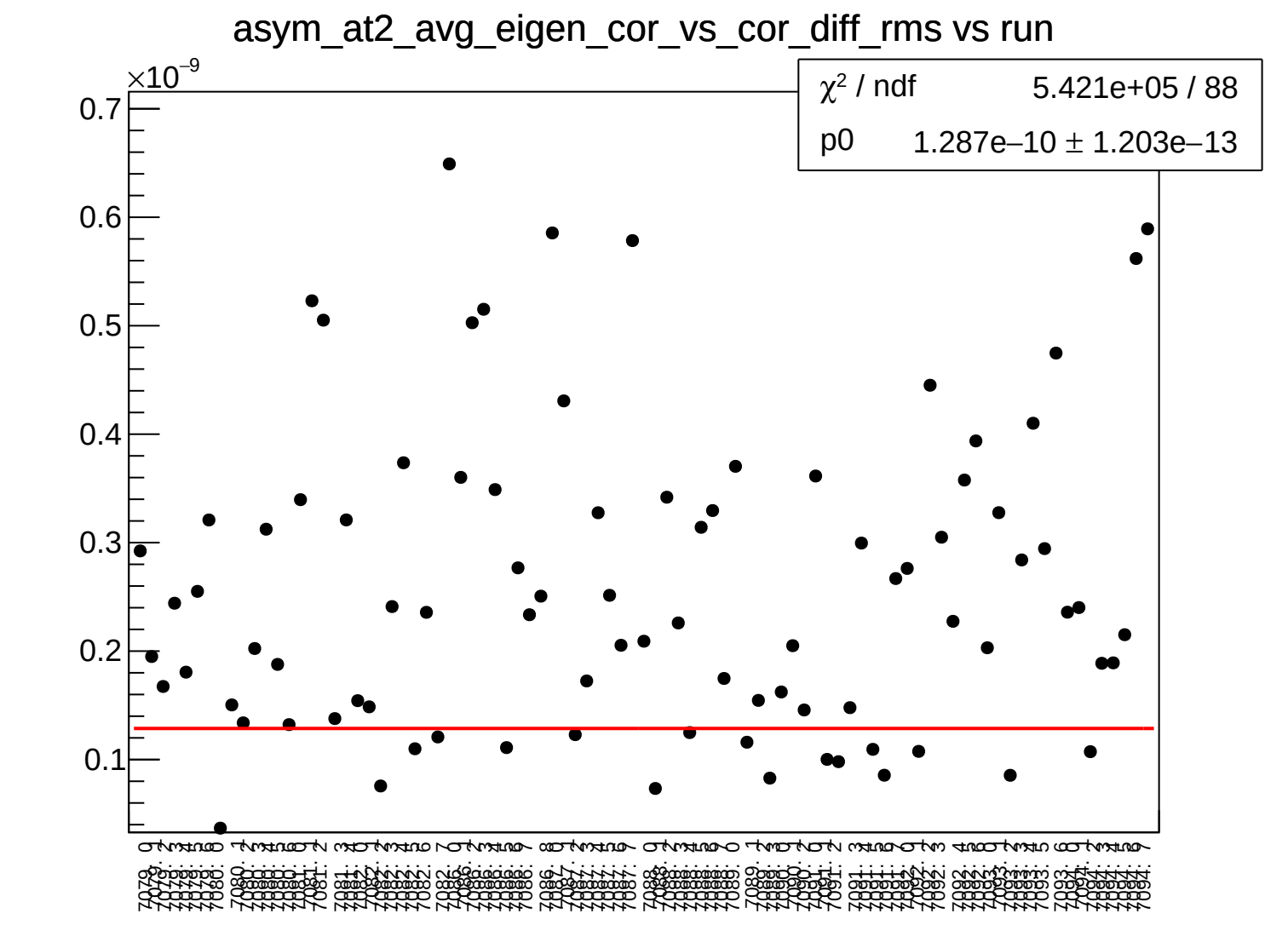

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.6 / 88
p0 0.3921 ± 0.7909
pull
Entries 89
Mean 0.1565
Std Dev 0

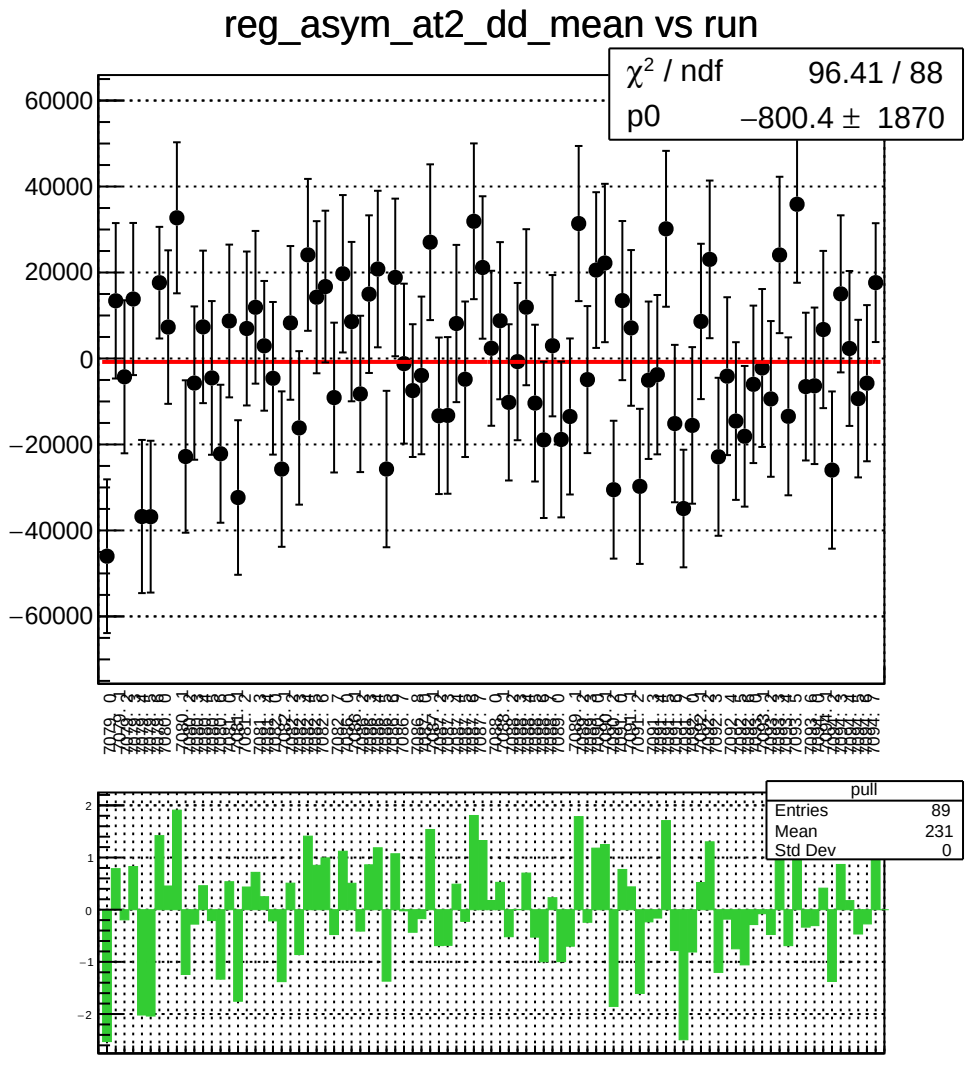

pull1D
Entries 89
Mean −0.02256
Std Dev 0.9572

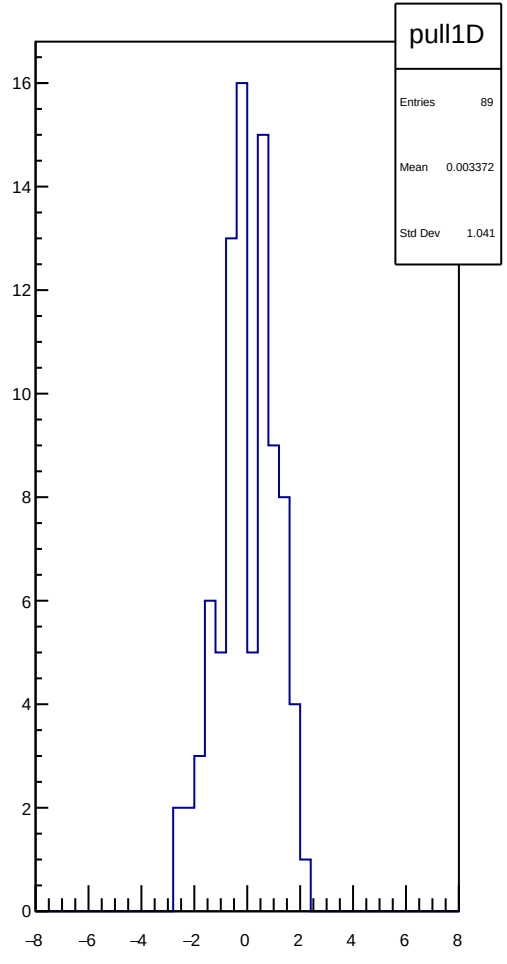

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 88
p0 720.3 ± 0.5593
1100
1000
900
800
700
600
500

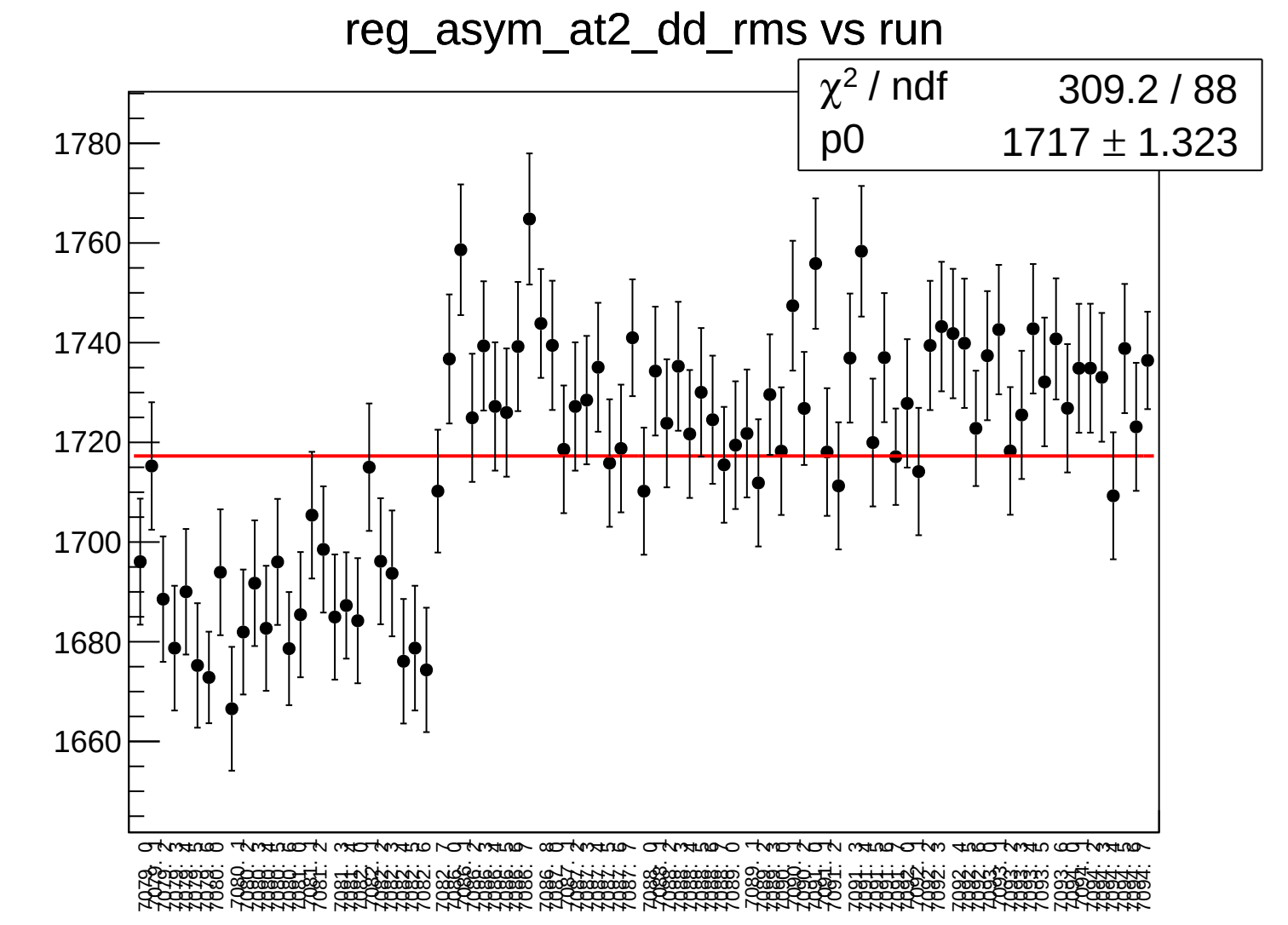

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.36 / 88
p0 −8.952e−14 ± 1.701e−13
pull
Entries 89
Mean −209
Std Dev 0

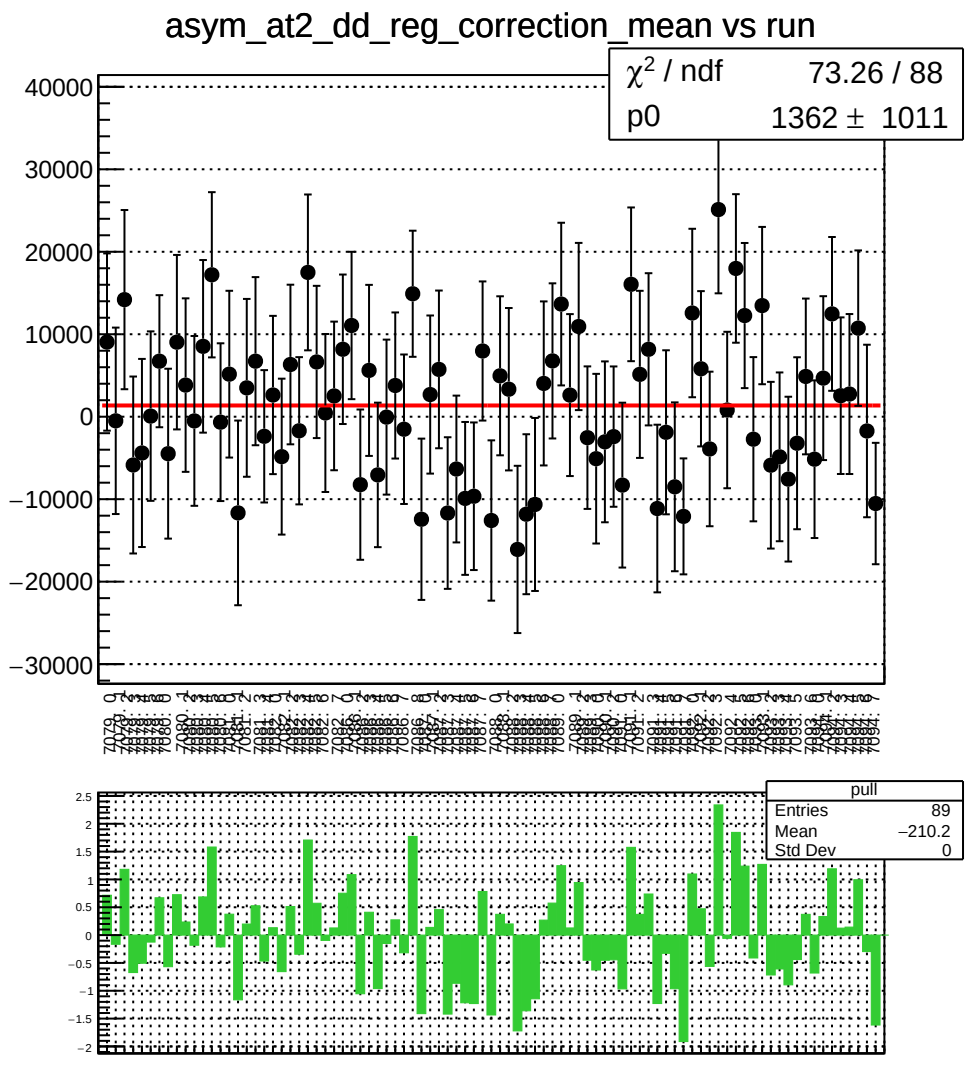

pull1D
Entries 89
Mean −0.02578
Std Dev 1.024

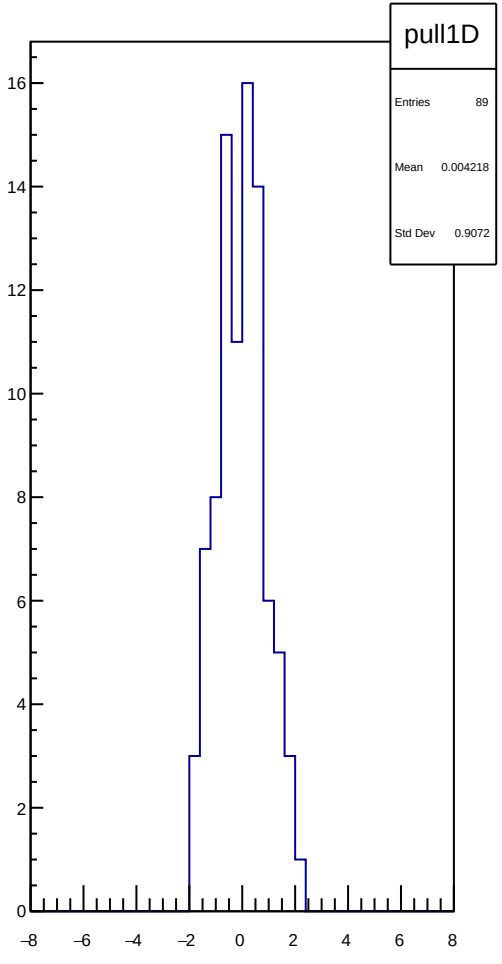

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.421e+05 / 88
p0 1.287e−10 ± 1.203e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

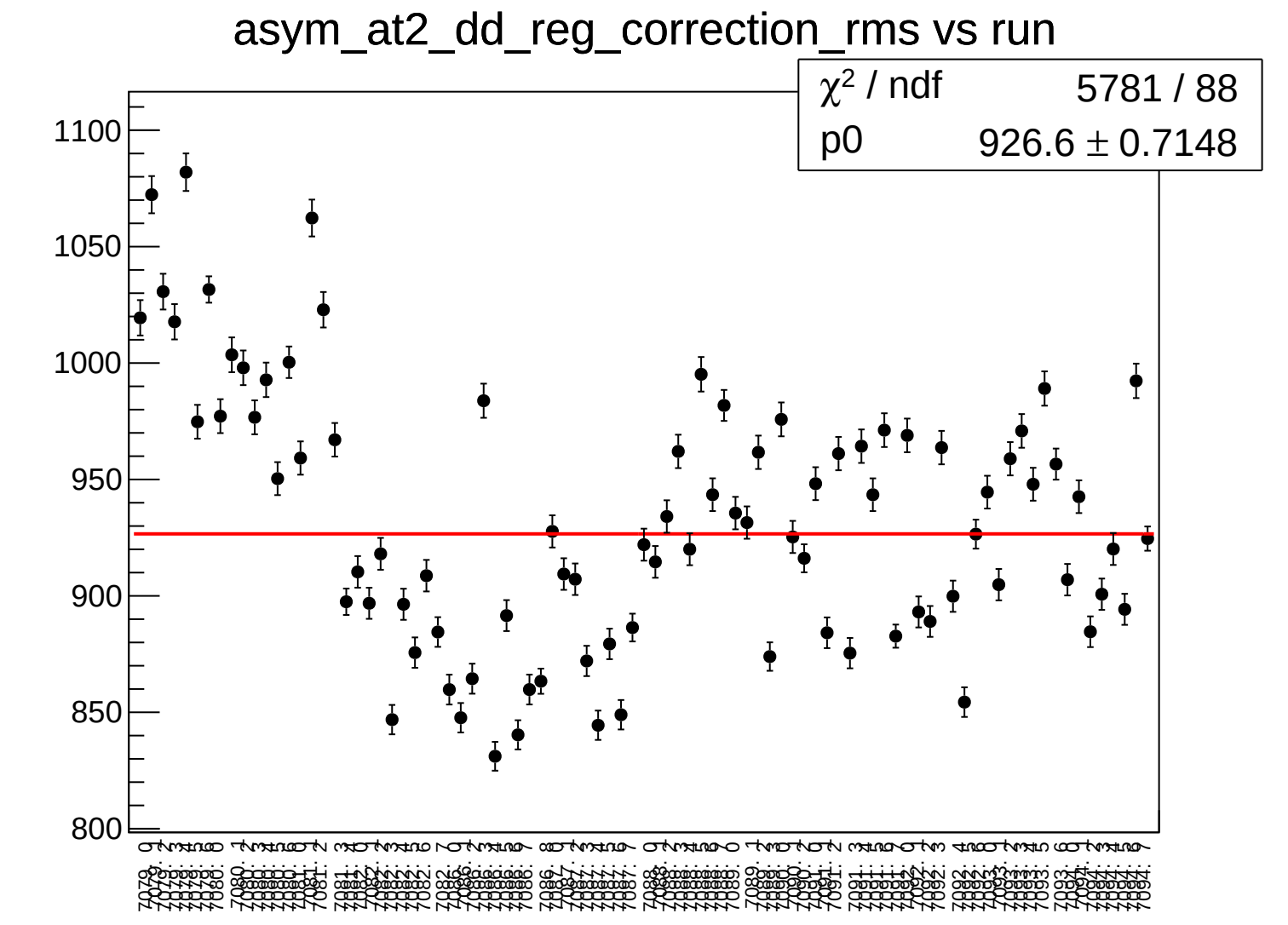

reg_asym_at2_dd_mean vs run
χ² / ndf 96.41 / 88
p0 −800.4 ± 1870
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 231
Std Dev 0
2
1
0
−1
−2

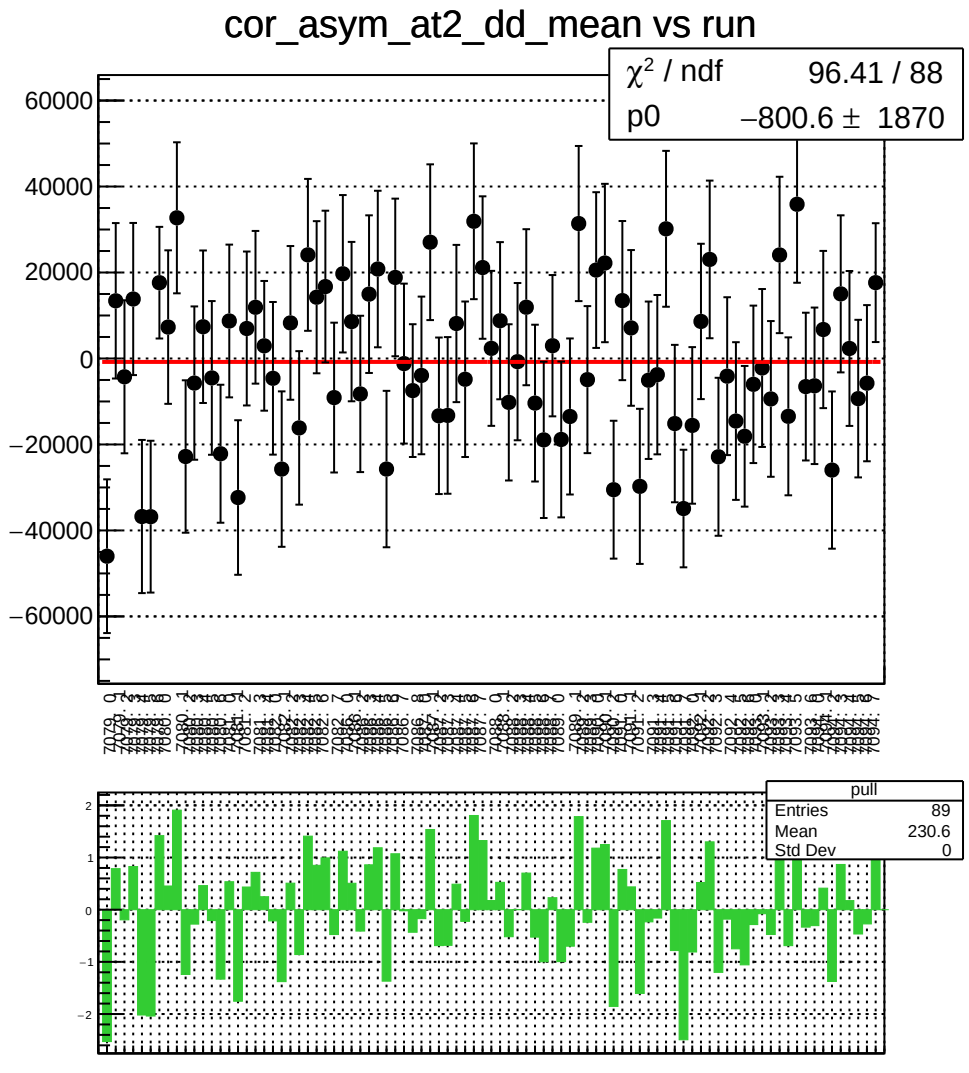

pull1D
Entries 89
Mean 0.003372
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

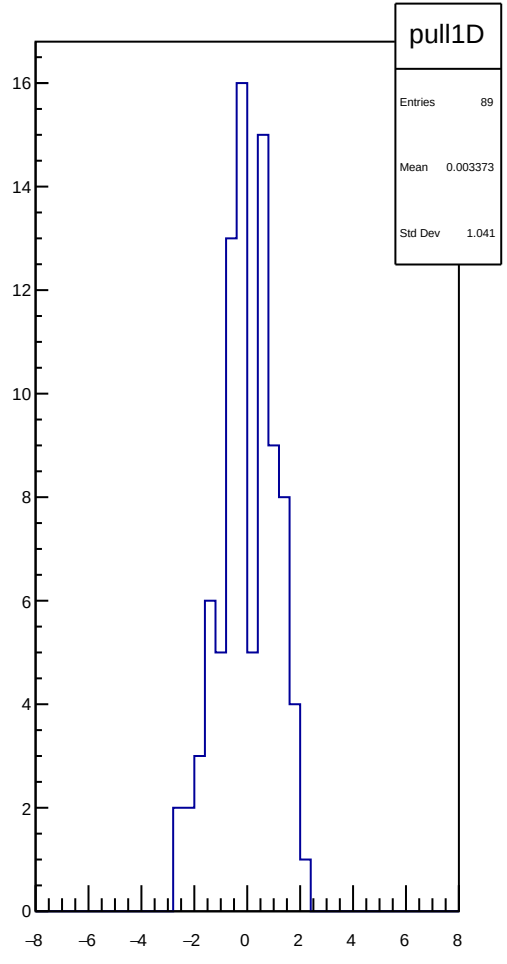

reg_asym_at2_dd_rms vs run
χ² / ndf 309.2 / 88
p0 1717 ± 1.323
1780
1760
1740
1720
1700
1680
1660

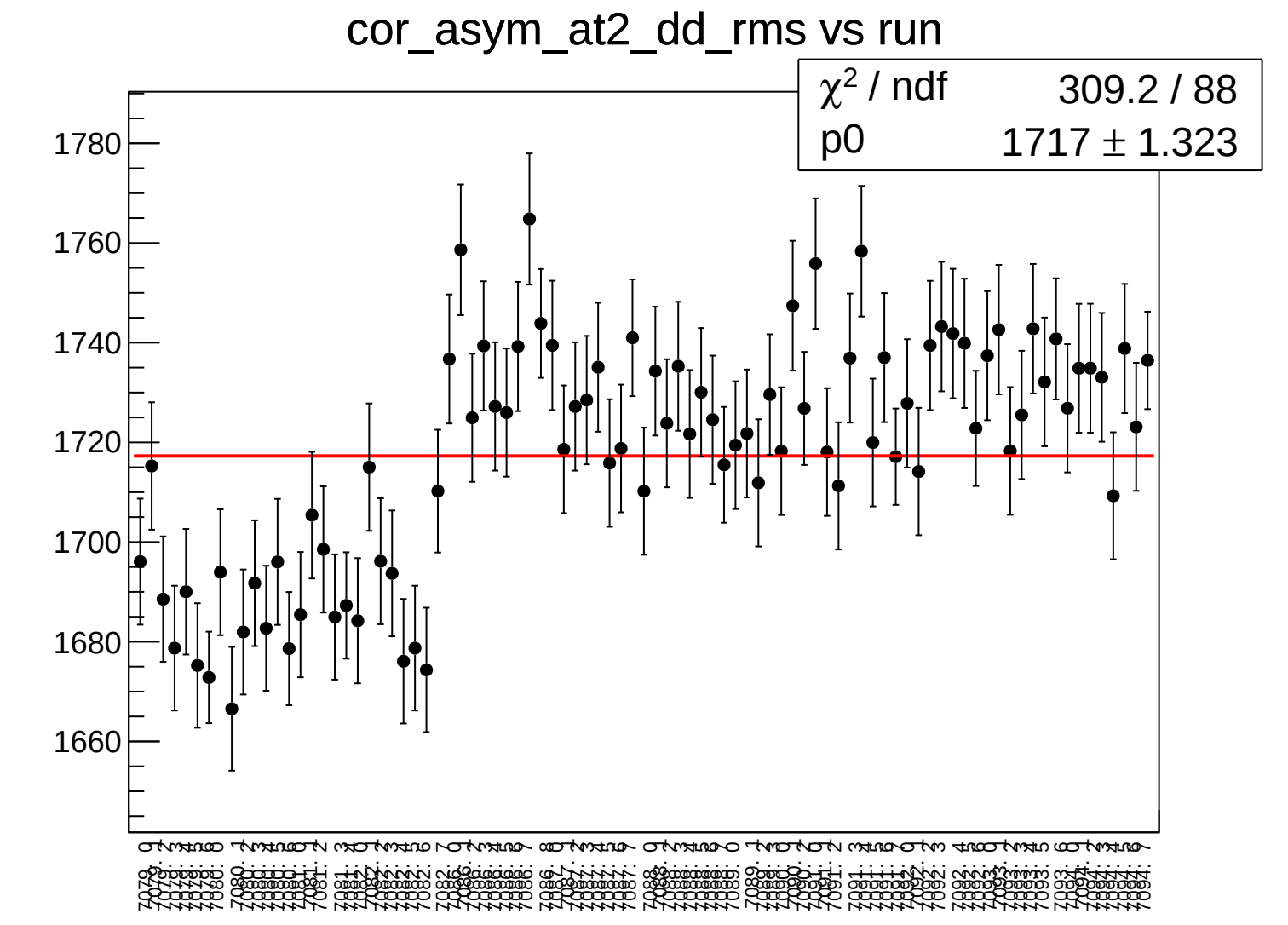

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 73.26 / 88
p0 1362 ± 1011
pull
Entries 89
Mean −210.2
Std Dev 0

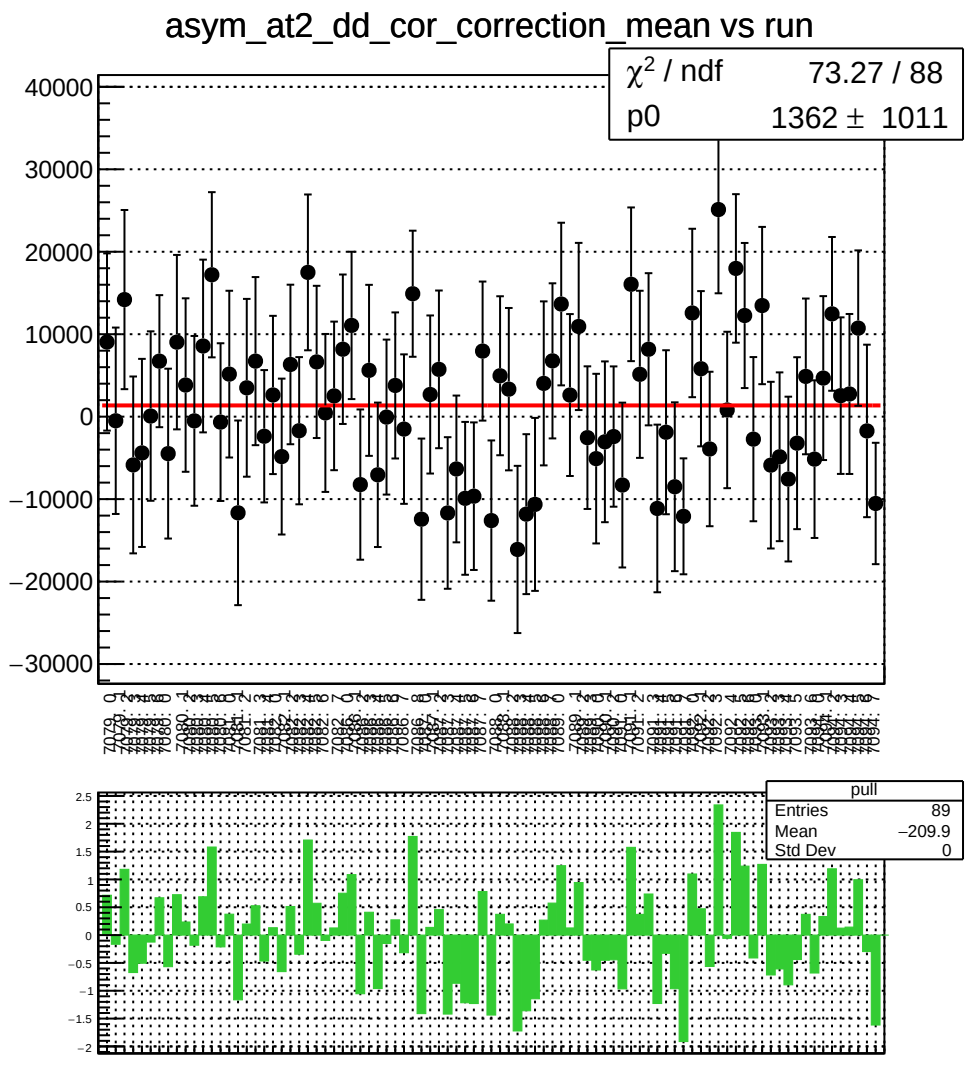

pull1D
Entries 89
Mean 0.004218
Std Dev 0.9072

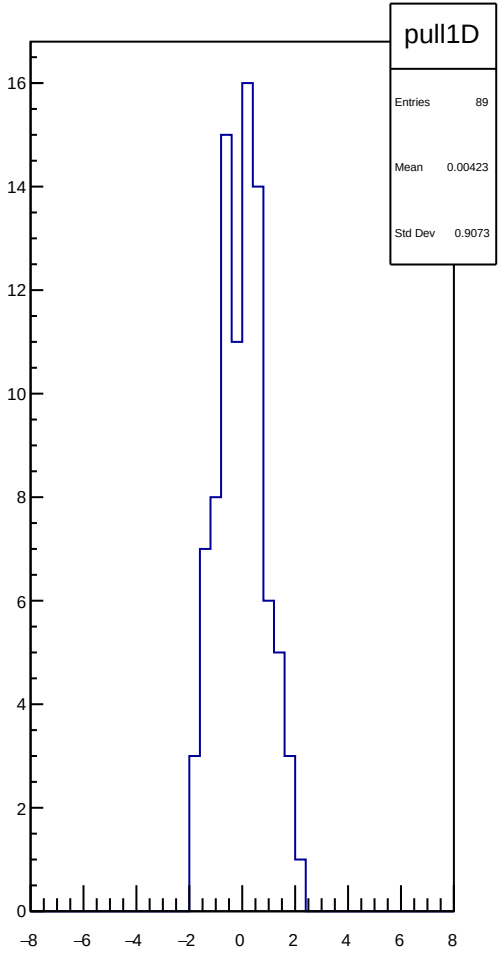

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 5781 / 88
p0 926.6 ± 0.7148
1100
1050
1000
950
900
850
800

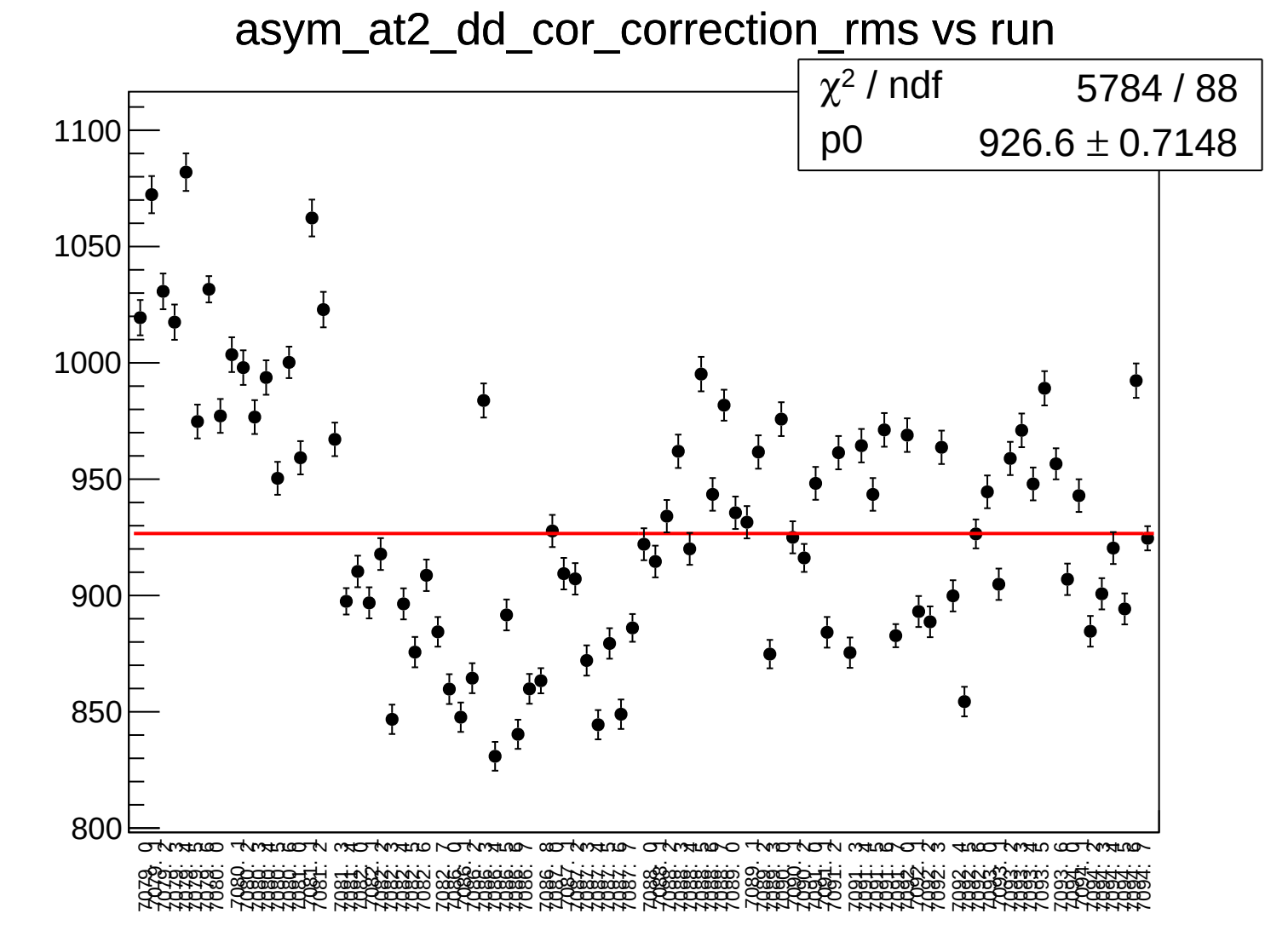

cor_asym_at2_dd_mean vs run
χ² / ndf 96.41 / 88
p0 −800.6 ± 1870
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 230.6
Std Dev 0
2
1
0
−1
−2

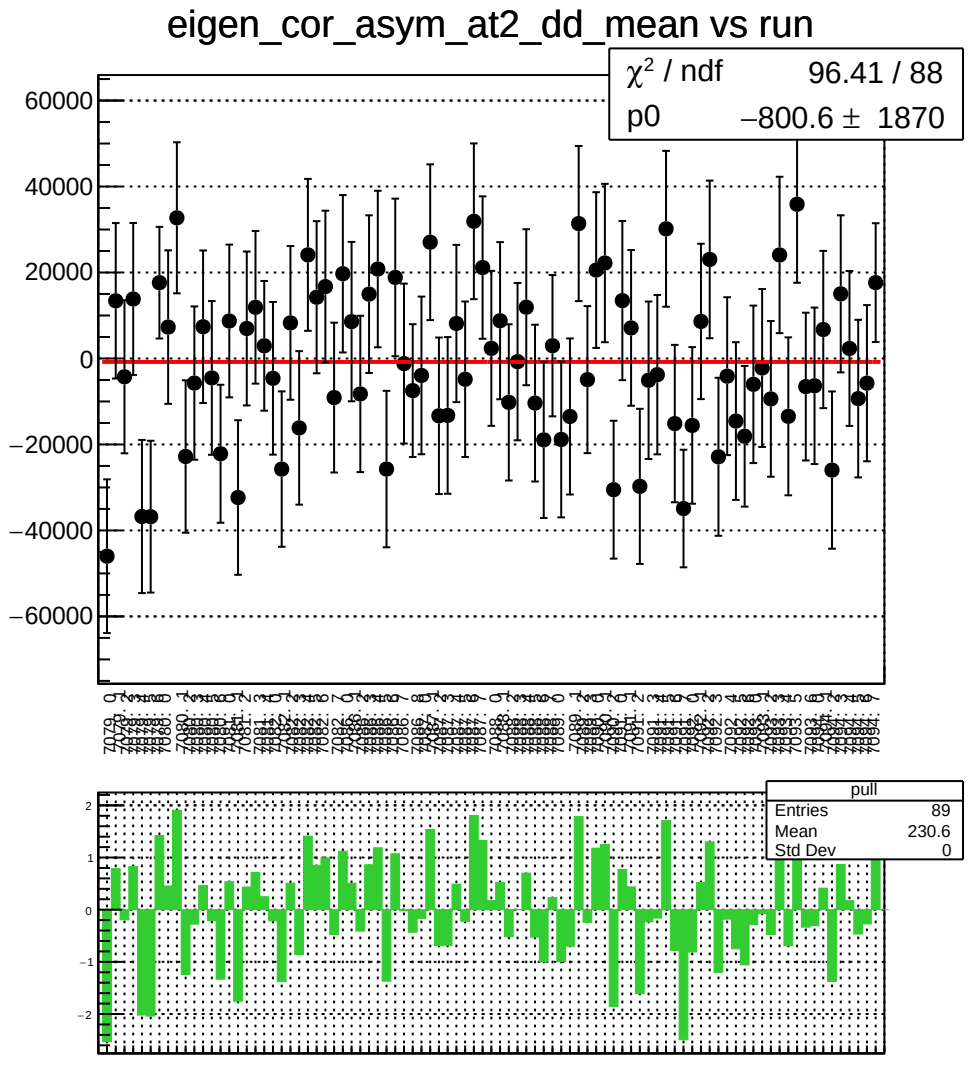

pull1D
Entries 89
Mean 0.003373
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

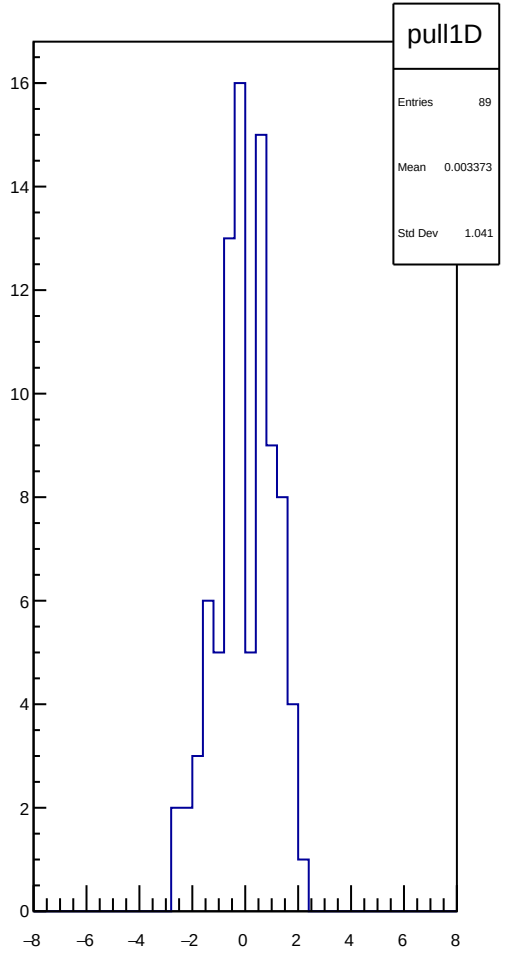

cor_asym_at2_dd_rms vs run
χ² / ndf 309.2 / 88
p0 1717 ± 1.323
1780
1760
1740
1720
1700
1680
1660

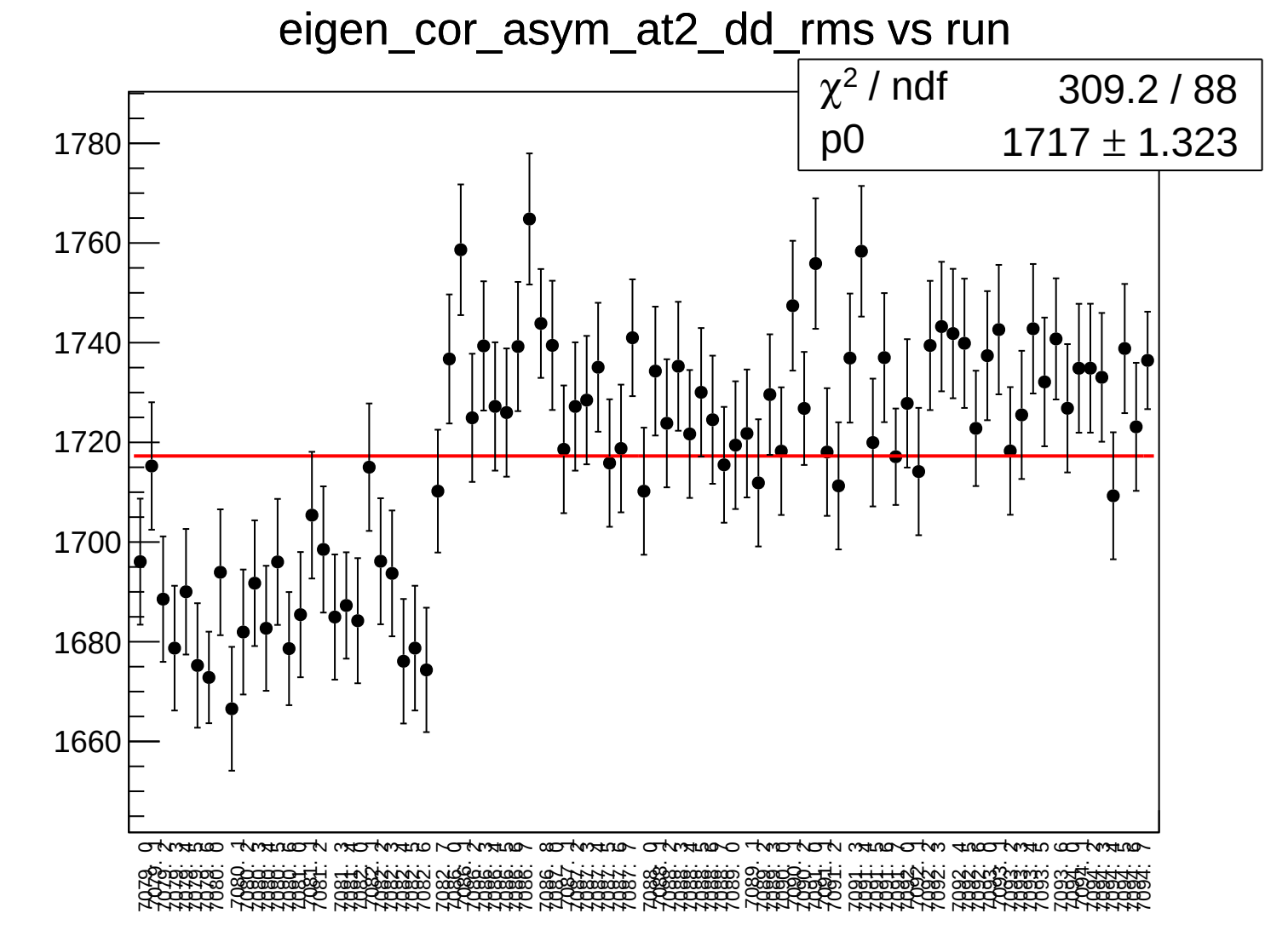

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 73.27 / 88
p0 1362 ± 1011
pull
Entries 89
Mean −209.9
Std Dev 0

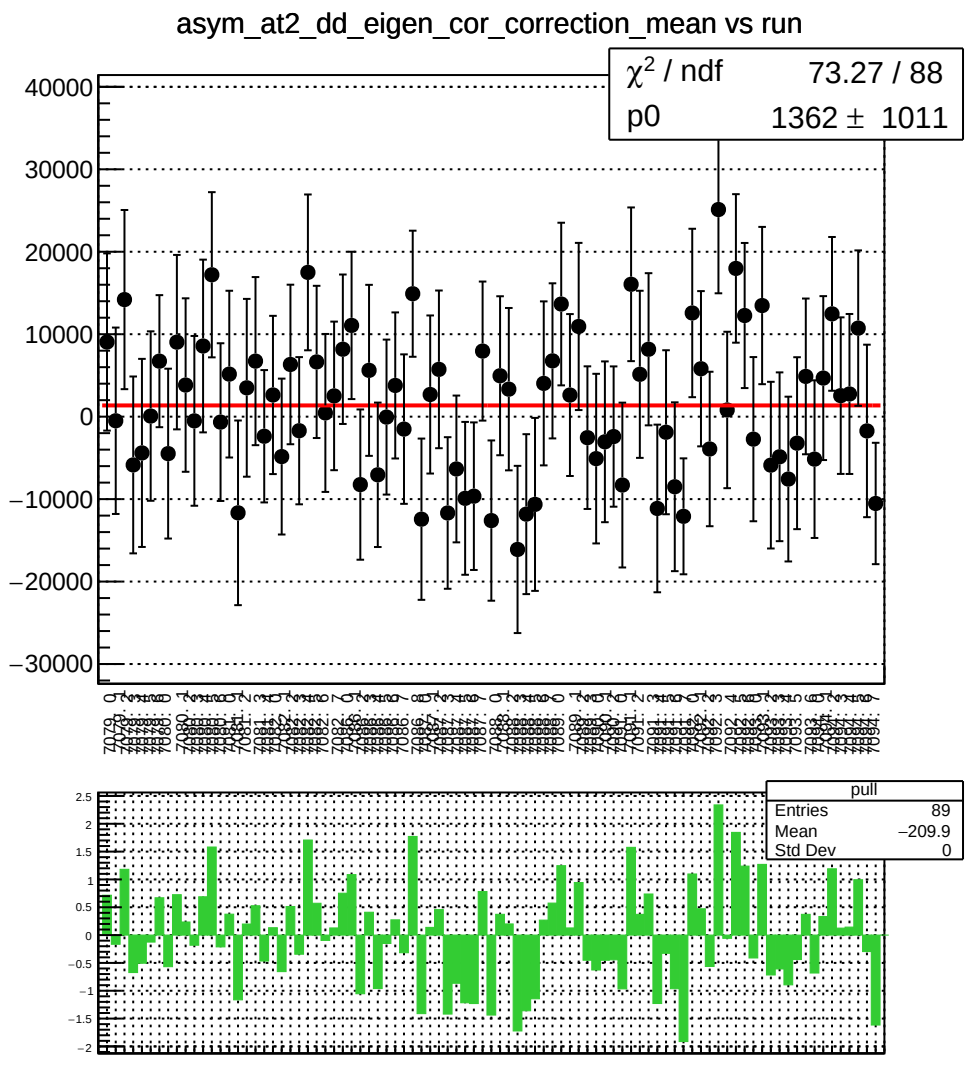

pull1D
Entries 89
Mean 0.00423
Std Dev 0.9073

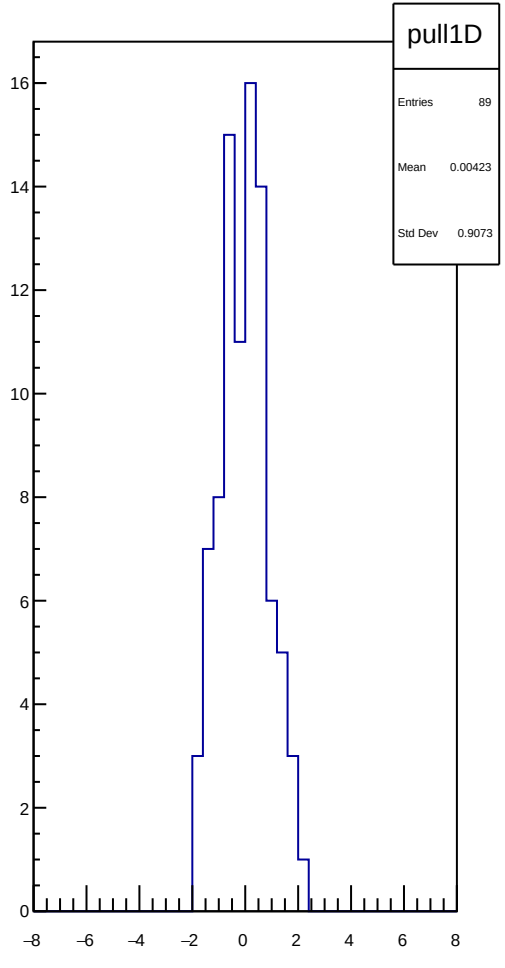

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 5784 / 88
p0 926.6 ± 0.7148
1100
1050
1000
950
900
850
800

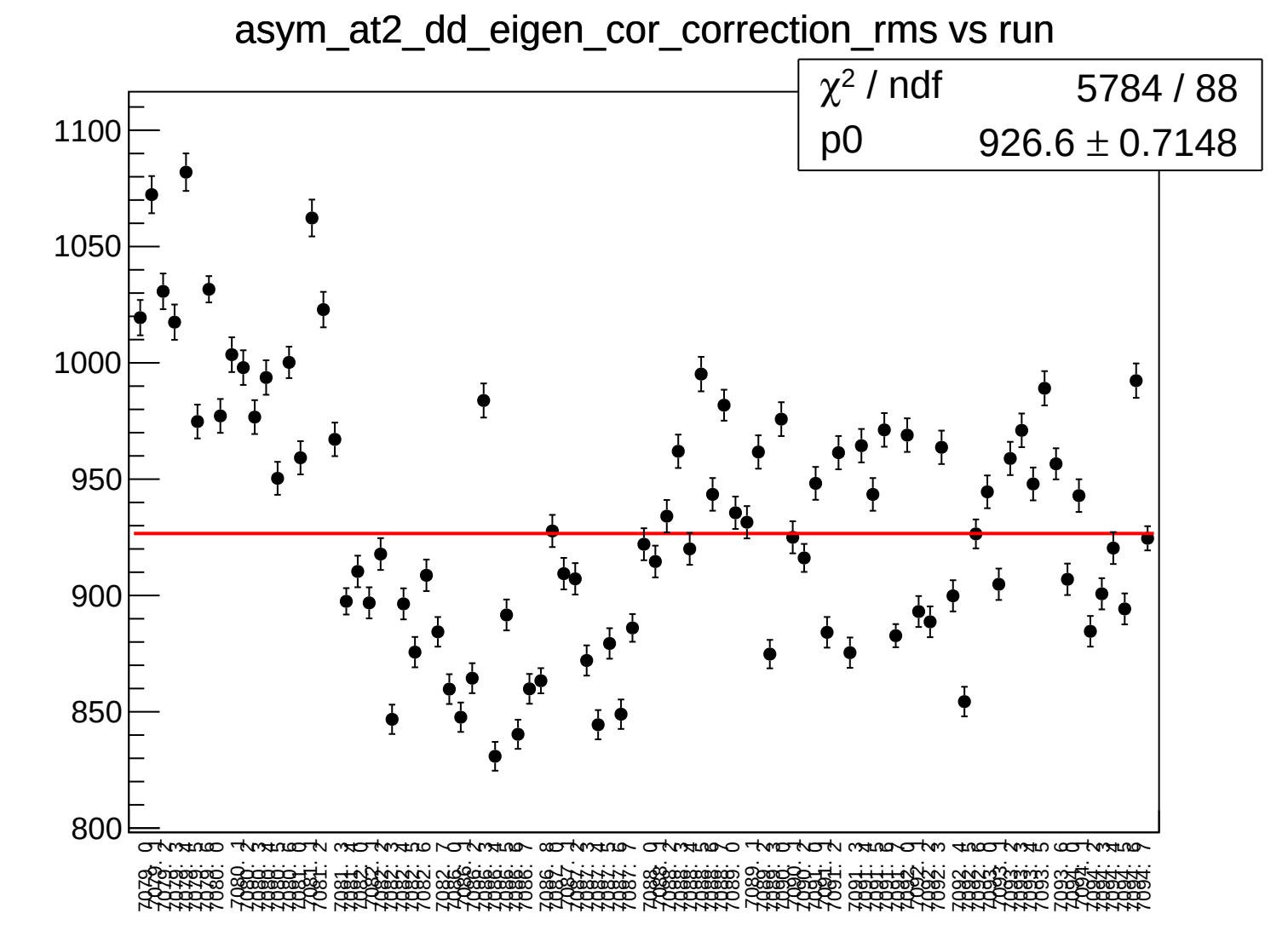

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 96.41 / 88
p0 −800.6 ± 1870
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 230.6
Std Dev 0
2
1
0
−1
−2

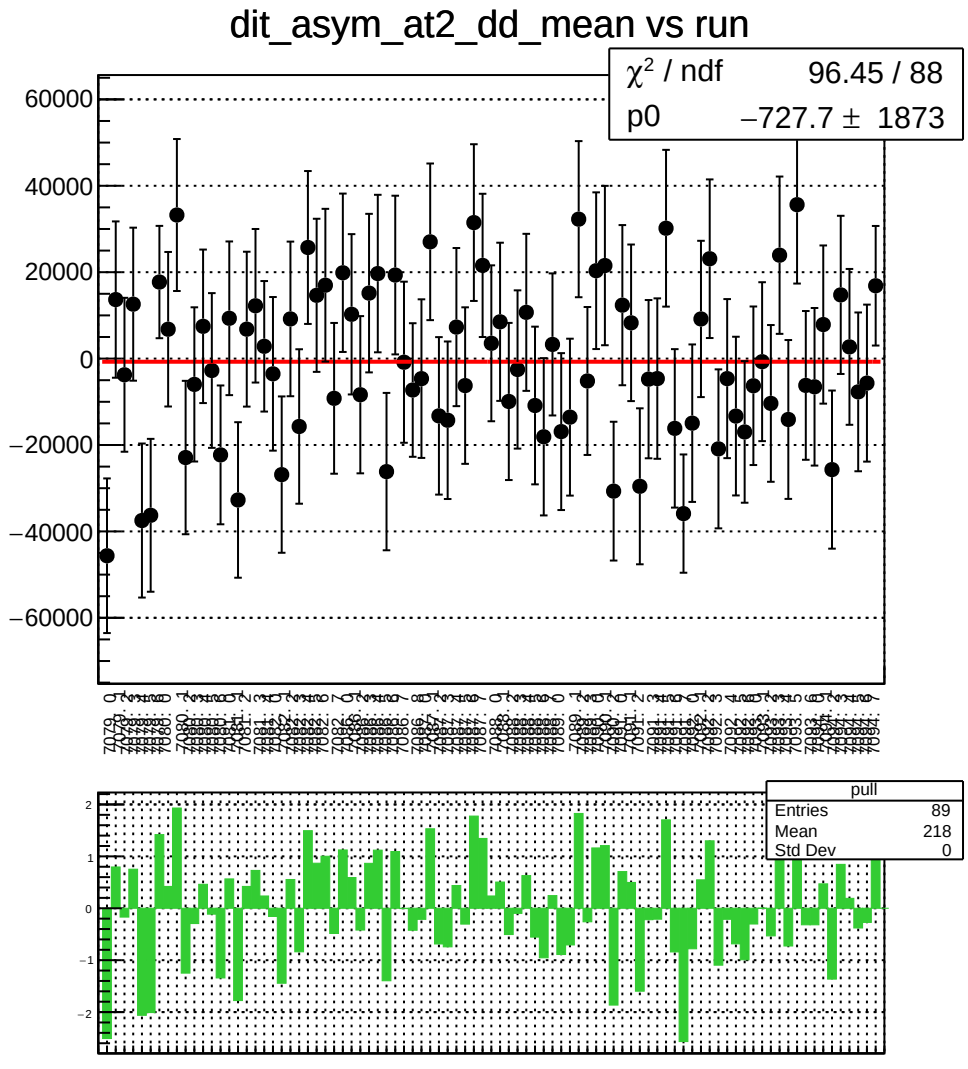

pull1D
Entries 89
Mean 0.003373
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

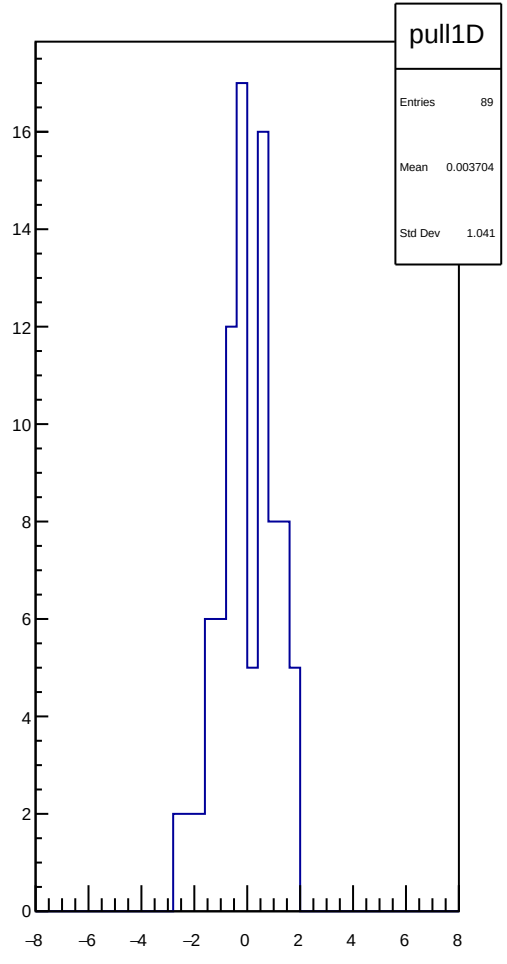

eigen_cor_asym_at2_dd_rms vs run
χ^2 / ndf 309.2 / 88
p0 1717 ± 1.323
1780
1760
1740
1720
1700
1680
1660

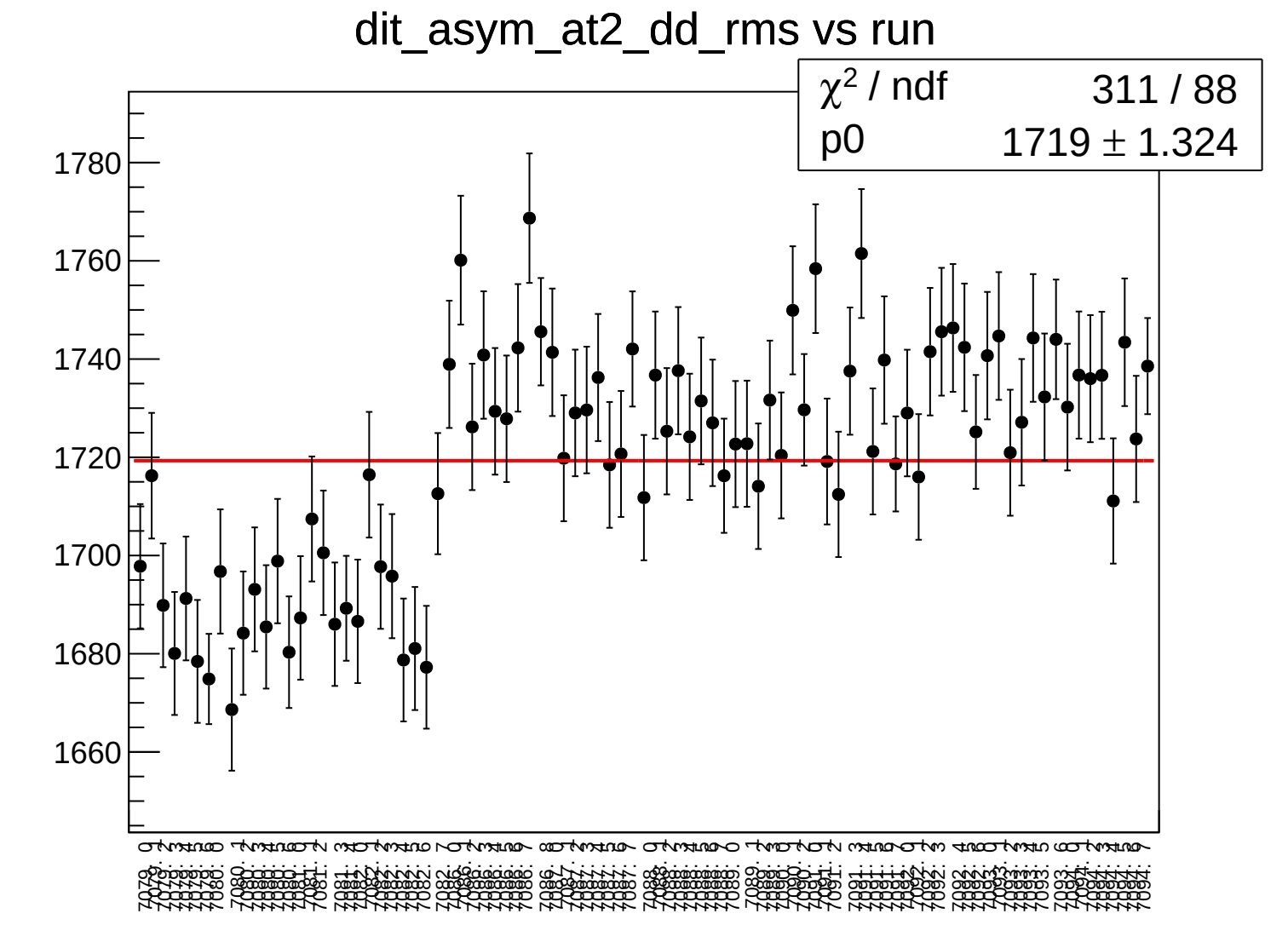

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.27 / 88
p0 1362 ± 1011
pull
Entries 89
Mean −209.9
Std Dev 0

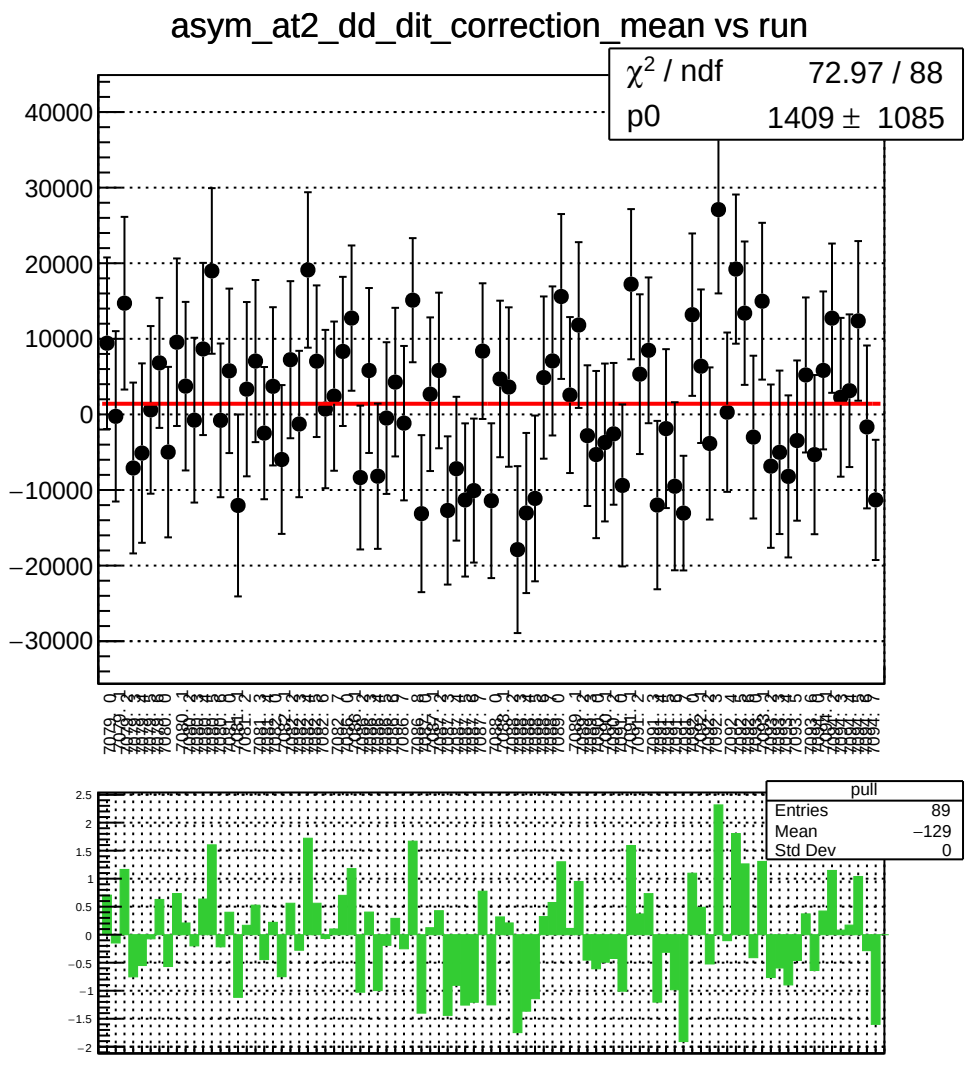

pull1D
Entries 89
Mean 0.00423
Std Dev 0.9073

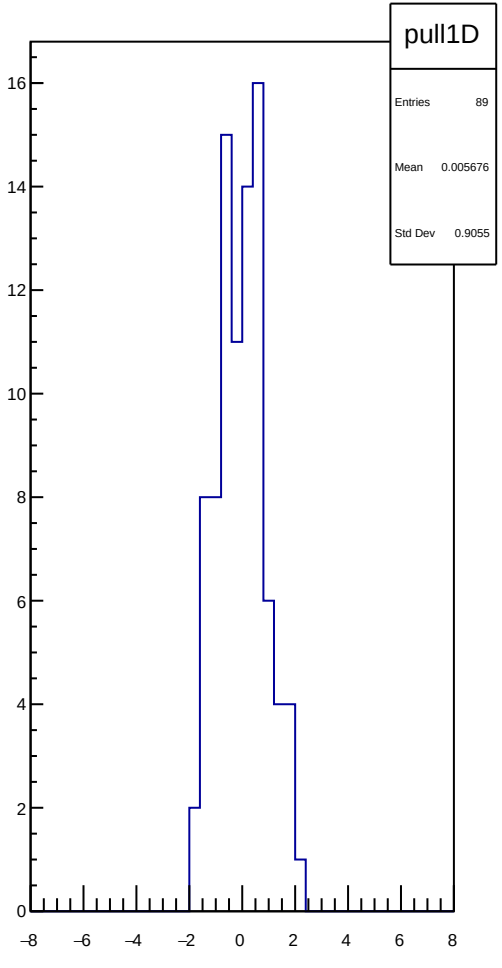

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5784 / 88
p0 926.6 ± 0.7148
1100
1050
1000
950
900
850
800

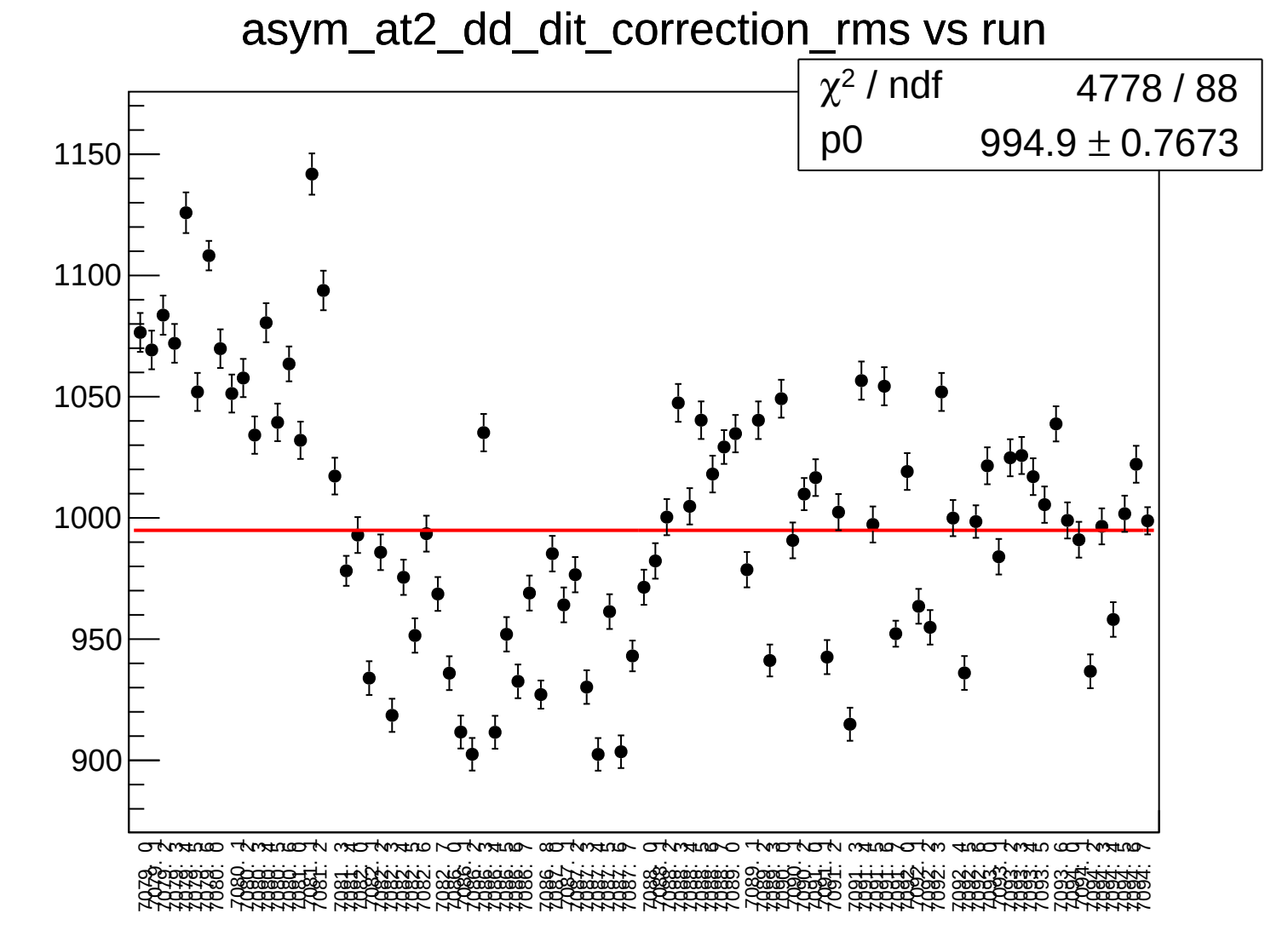

dit_asym_at2_dd_mean vs run
χ² / ndf 96.45 / 88
p0 −727.7 ± 1873
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 218
Std Dev 0
2
1
0
−1
−2

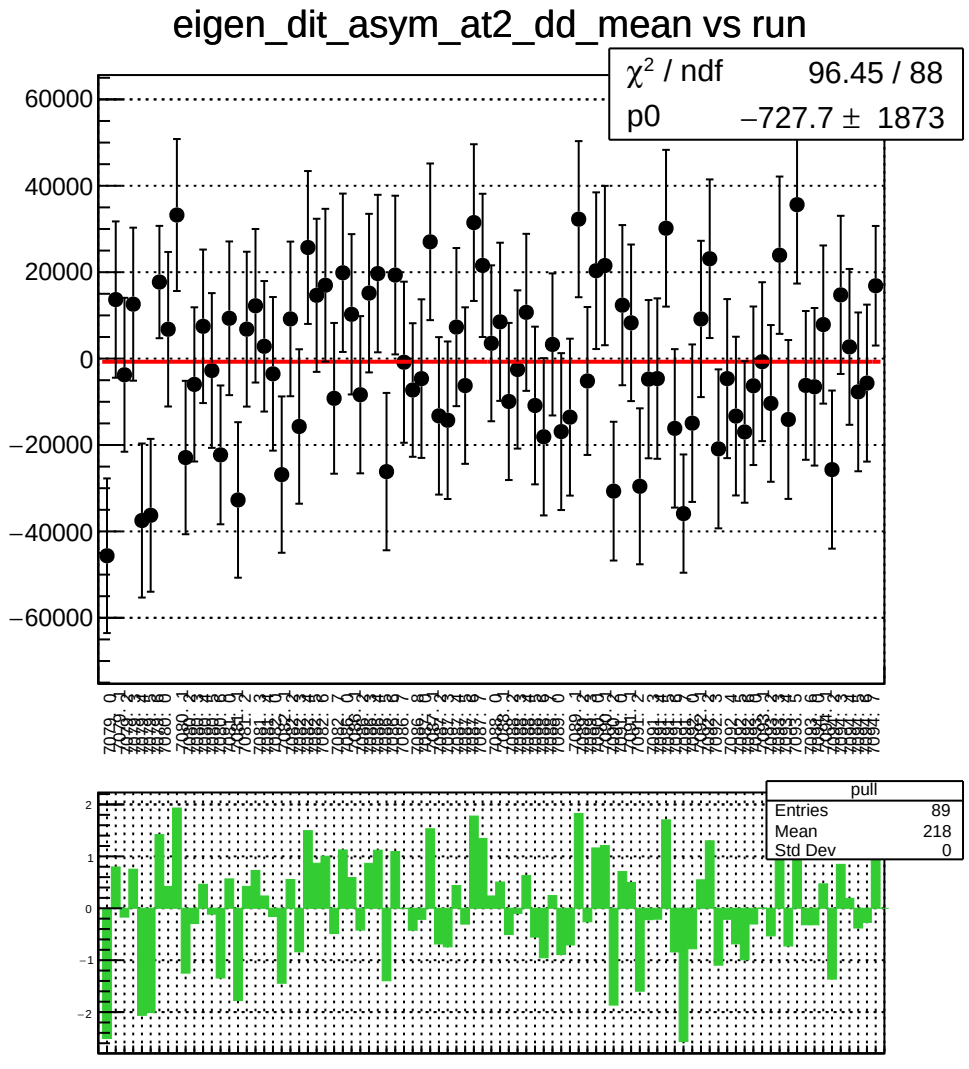

pull1D
Entries 89
Mean 0.003704
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

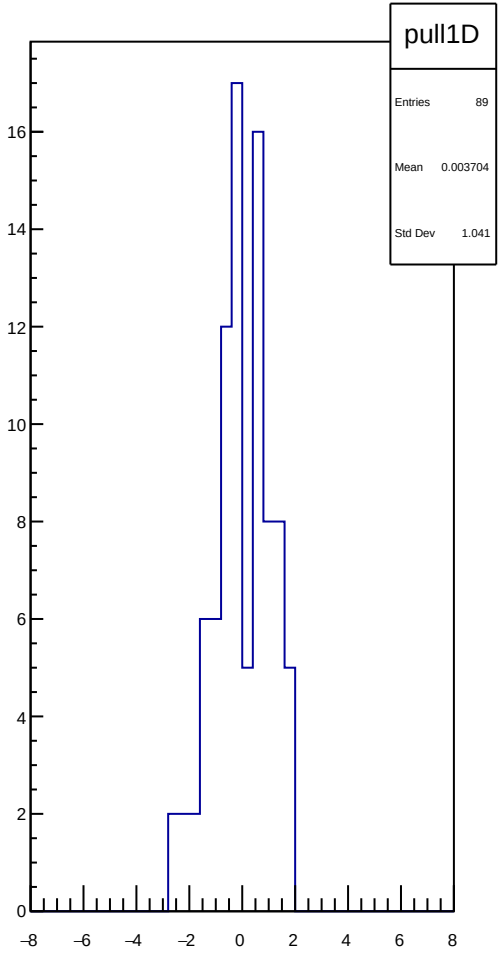

dit_asym_at2_dd_rms vs run
χ² / ndf 311 / 88
p0 1719 ± 1.324
1780
1760
1740
1720
1700
1680
1660

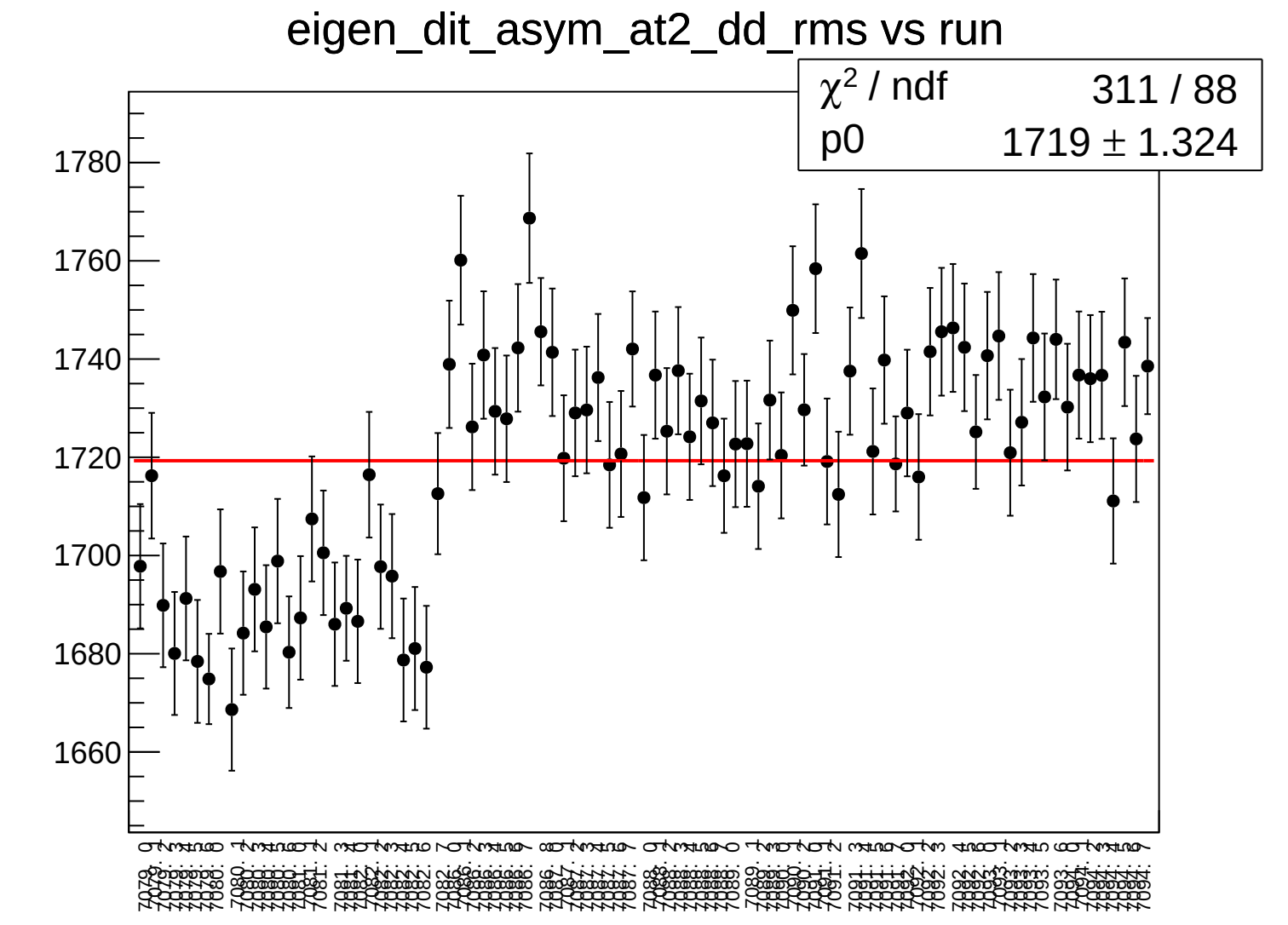

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 72.97 / 88
p0 1409 ± 1085
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −129
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

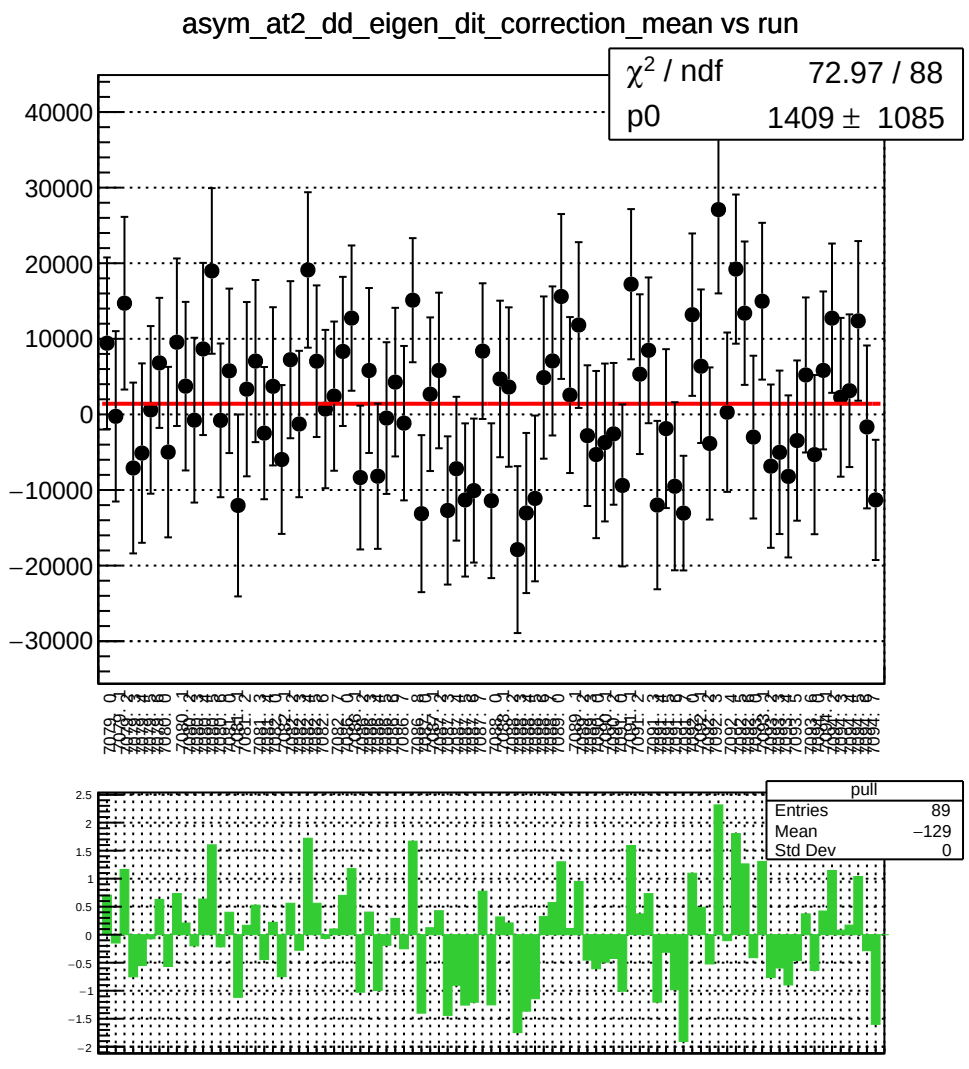

pull1D
Entries 89
Mean 0.005676
Std Dev 0.9055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

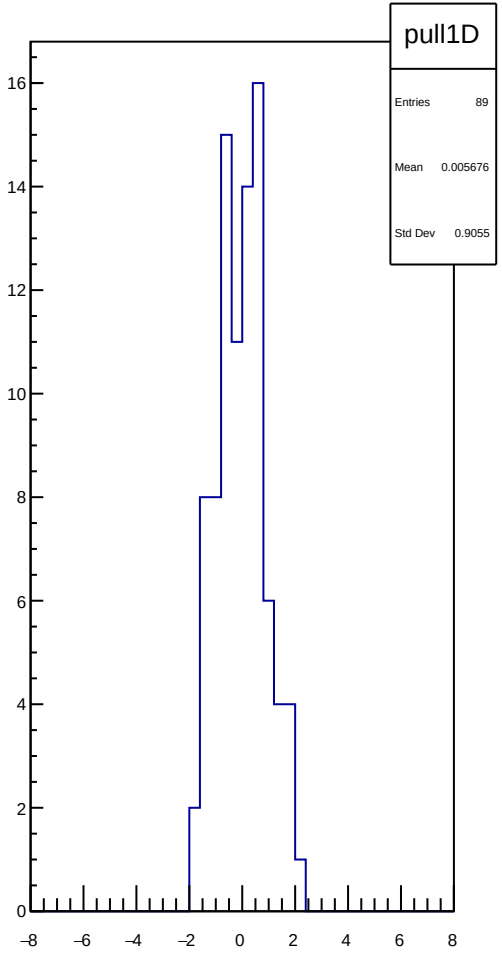

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 4778 / 88
p0 994.9 ± 0.7673
1150
1100
1050
1000
950
900

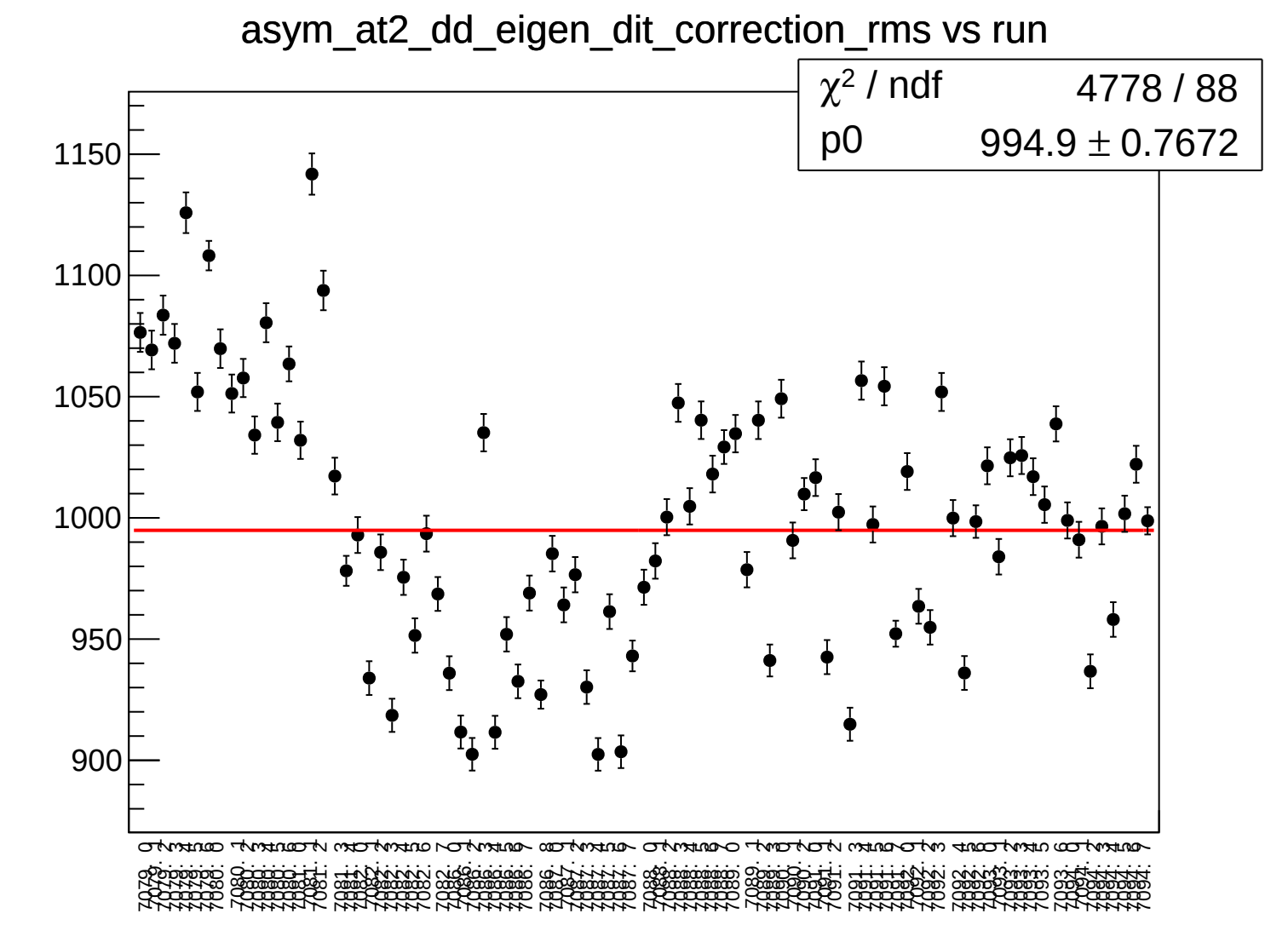

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 96.45 / 88
p0 −727.7 ± 1873
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 218
Std Dev 0
2
1
0
−1
−2

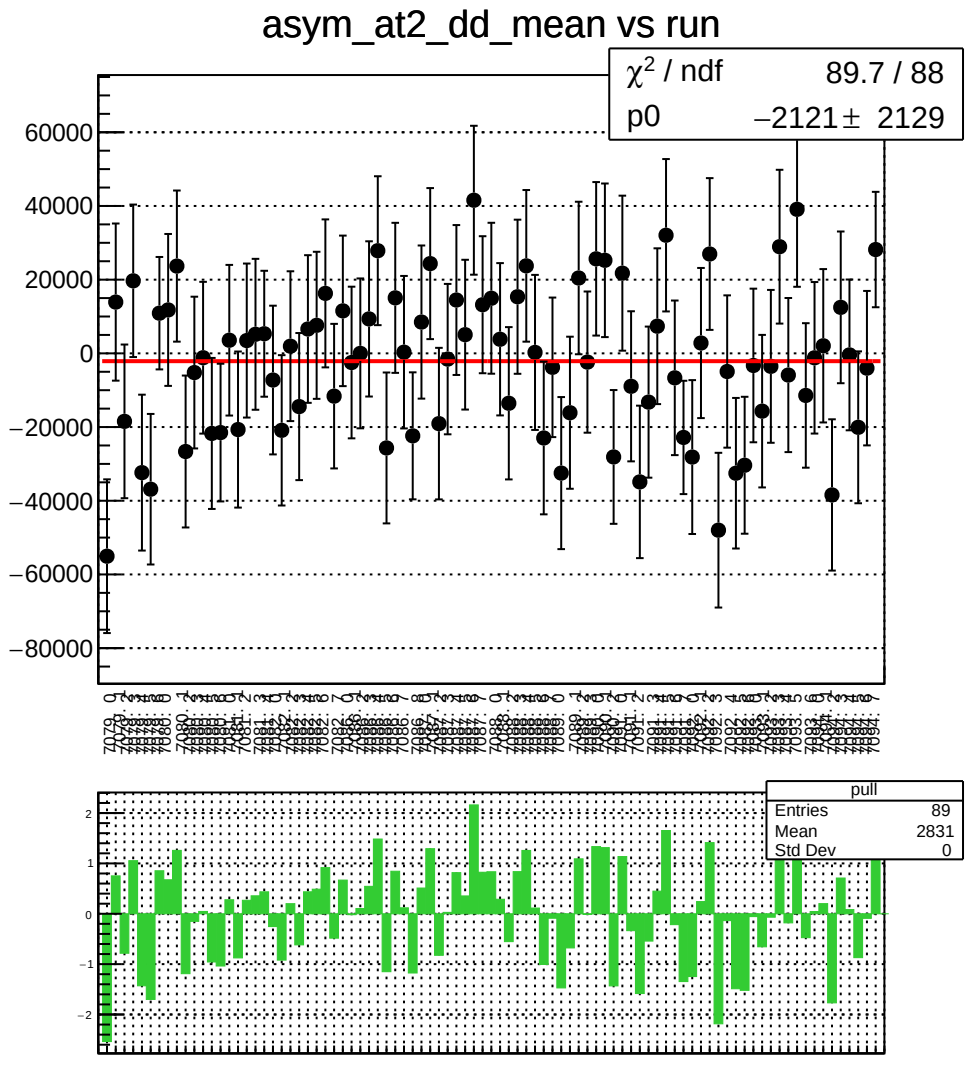

pull1D
Entries 89
Mean 0.003704
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

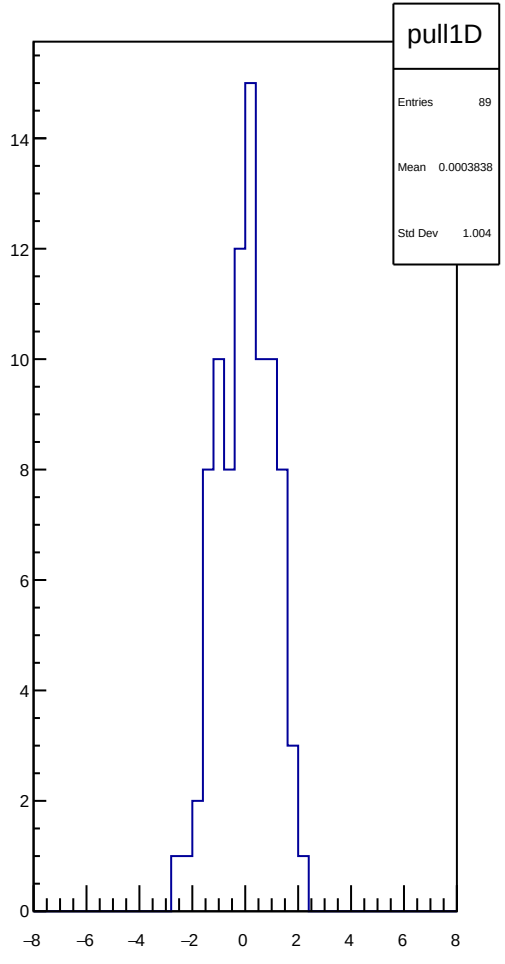

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 311 / 88
p0 1719 ± 1.324
1780
1760
1740
1720
1700
1680
1660

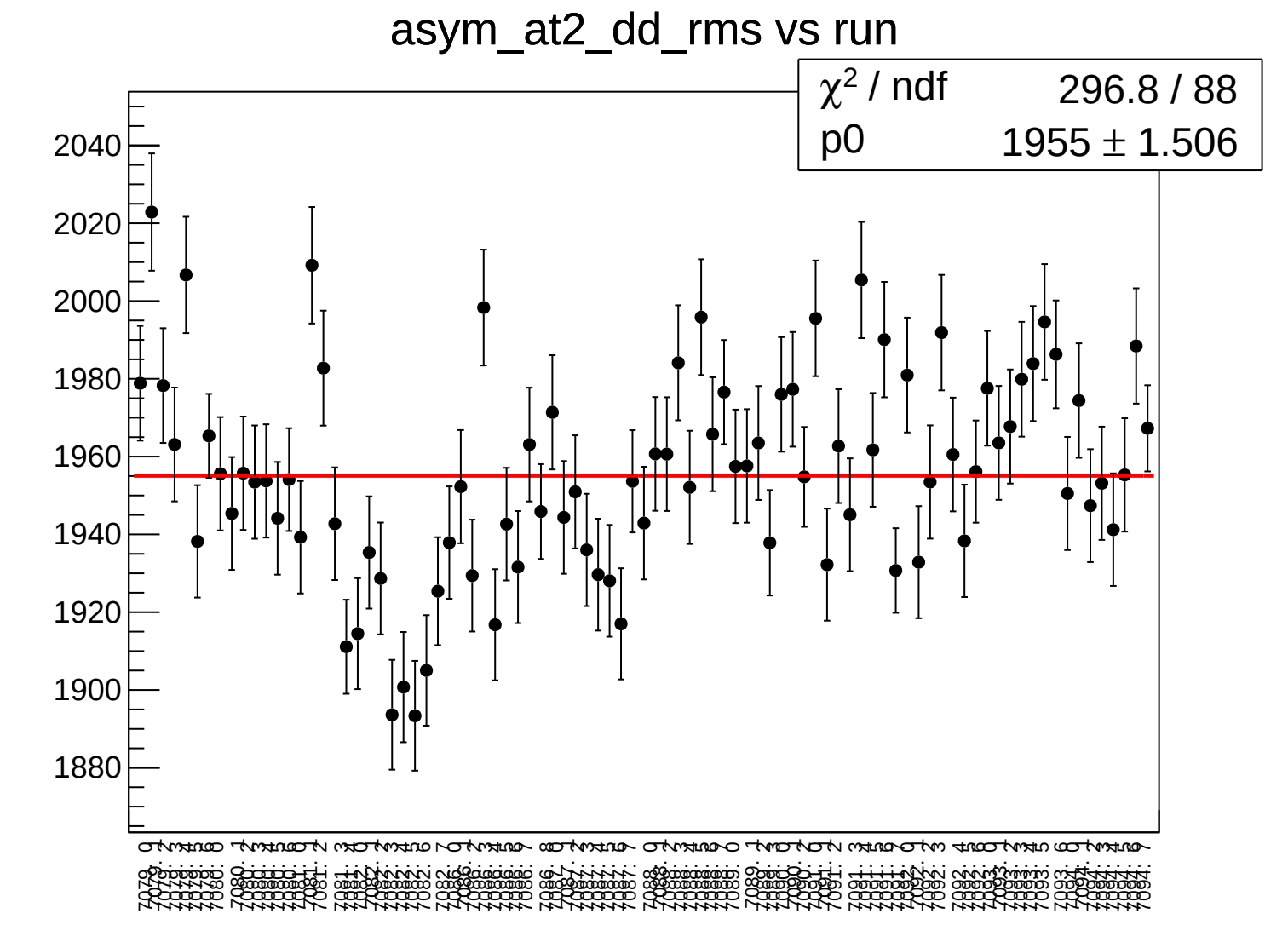

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.97 / 88
p0 1409 ± 1085
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −129
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

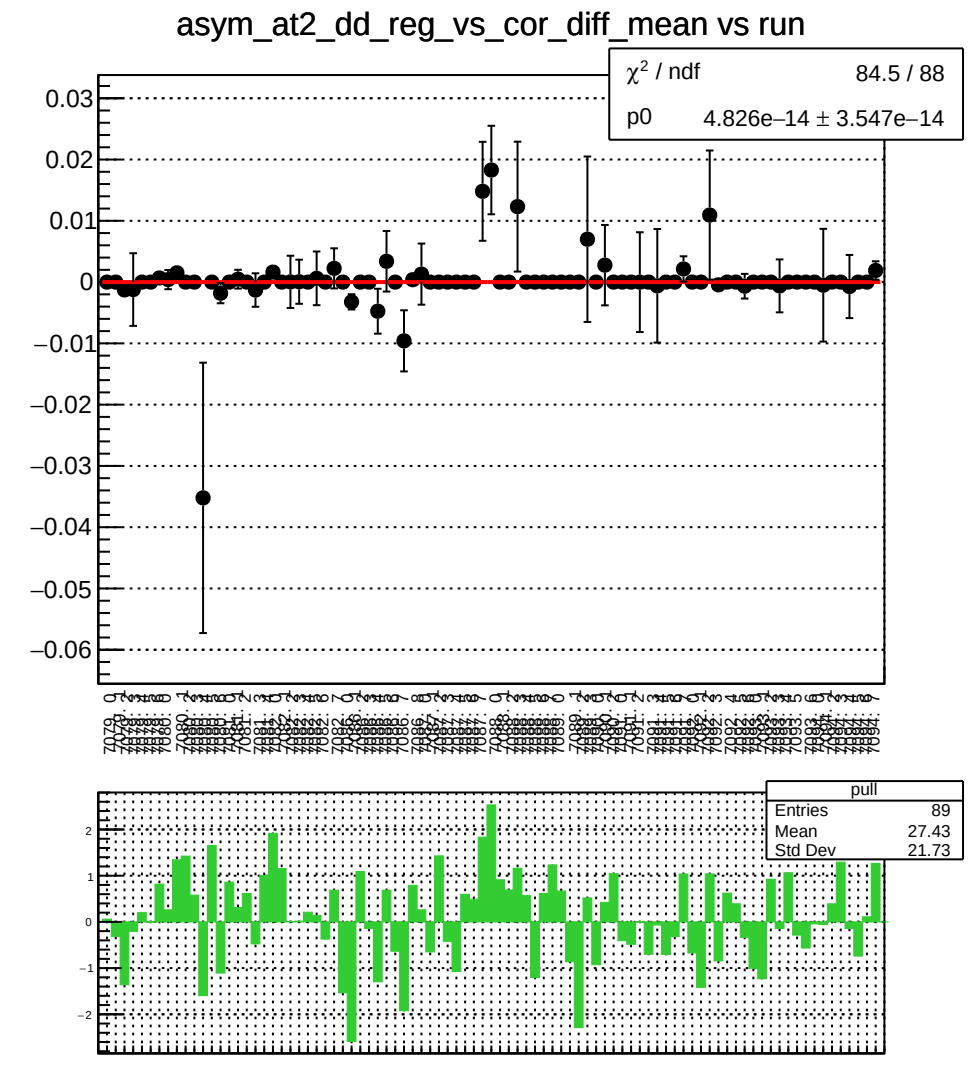

pull1D
Entries 89
Mean 0.005676
Std Dev 0.9055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

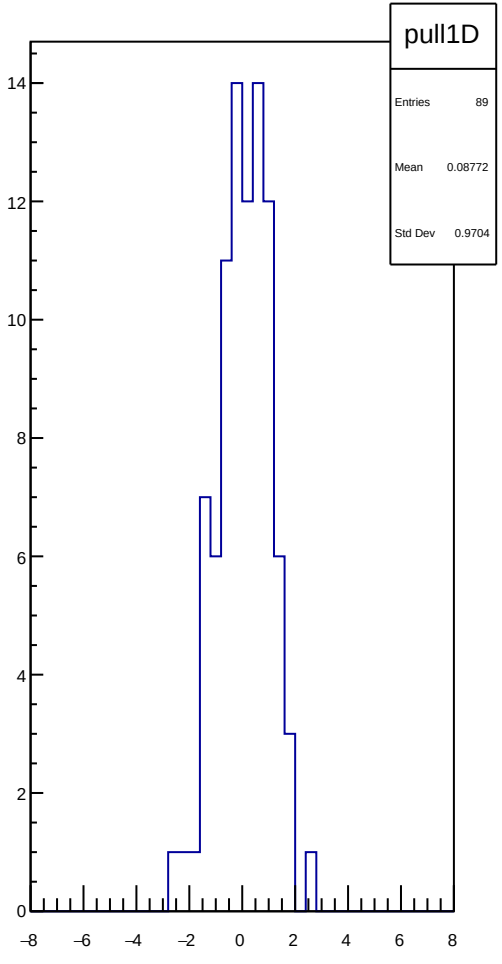

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4778 / 88
p0 994.9 ± 0.7672
1150
1100
1050
1000
950
900

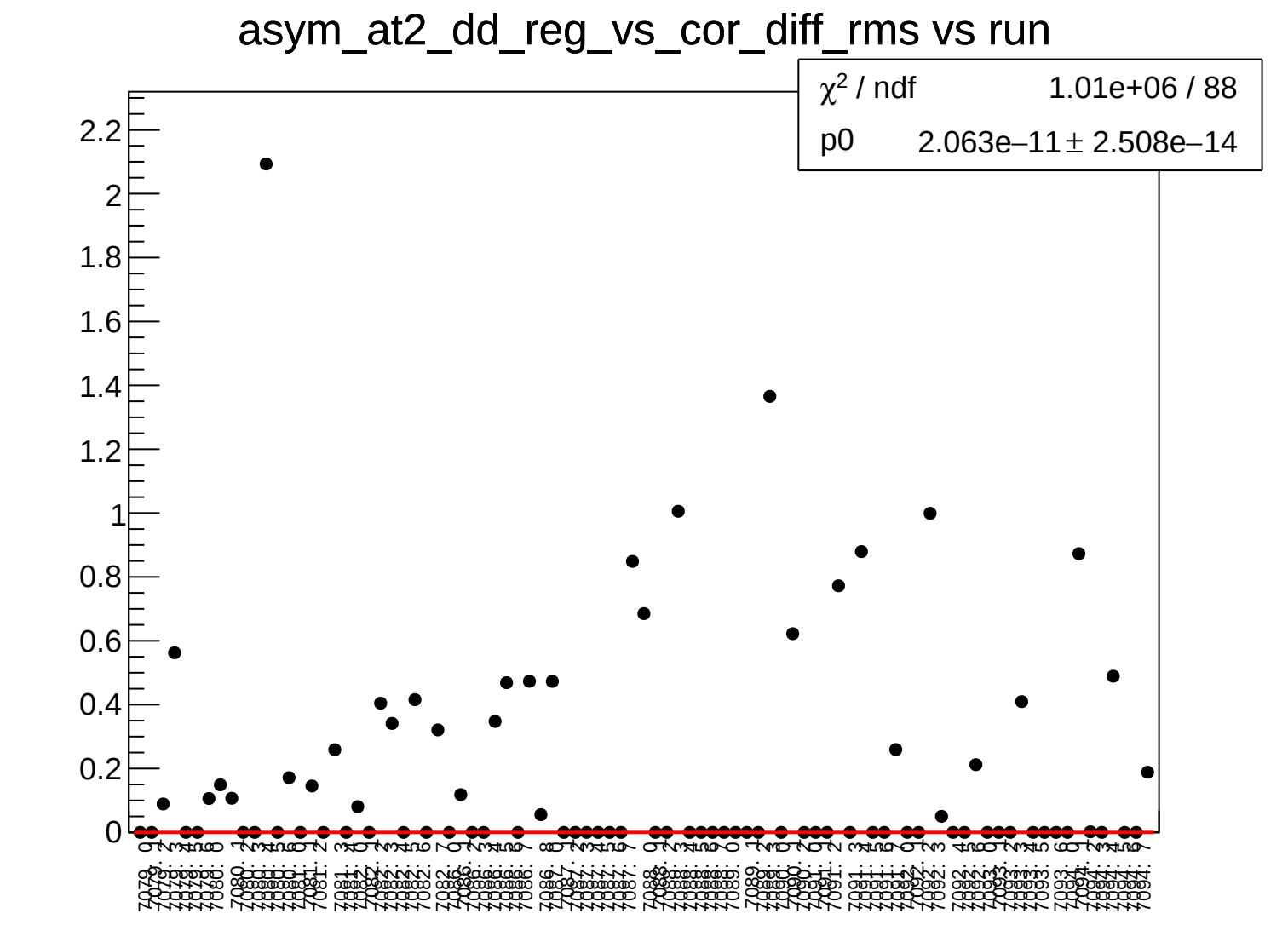

asym_at2_dd_mean vs run
χ² / ndf 89.7 / 88
p0 −2121 ± 2129
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 2831
Std Dev 0
2
1
0
−1
−2

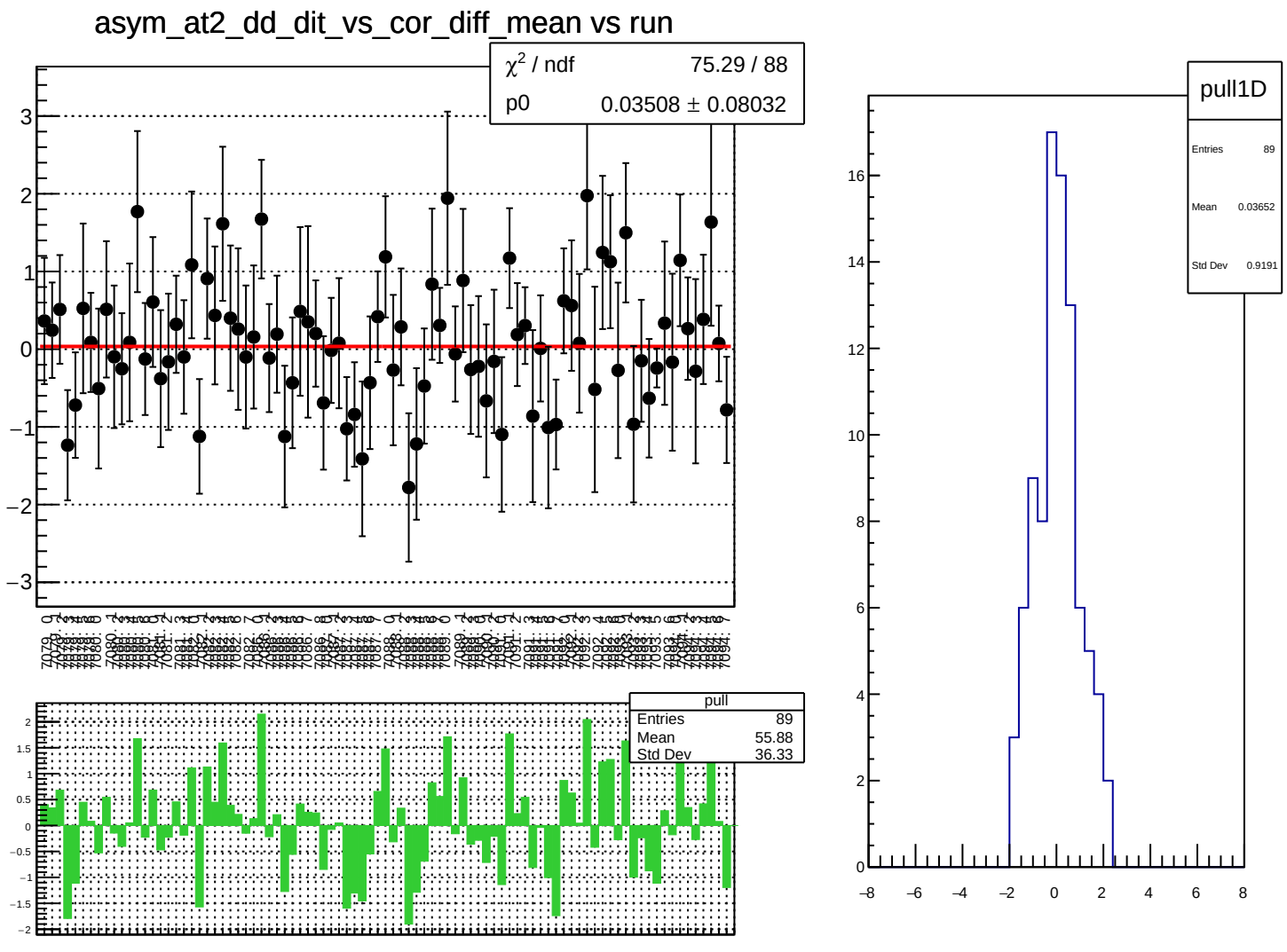

pull1D
Entries 89
Mean 0.0003838
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

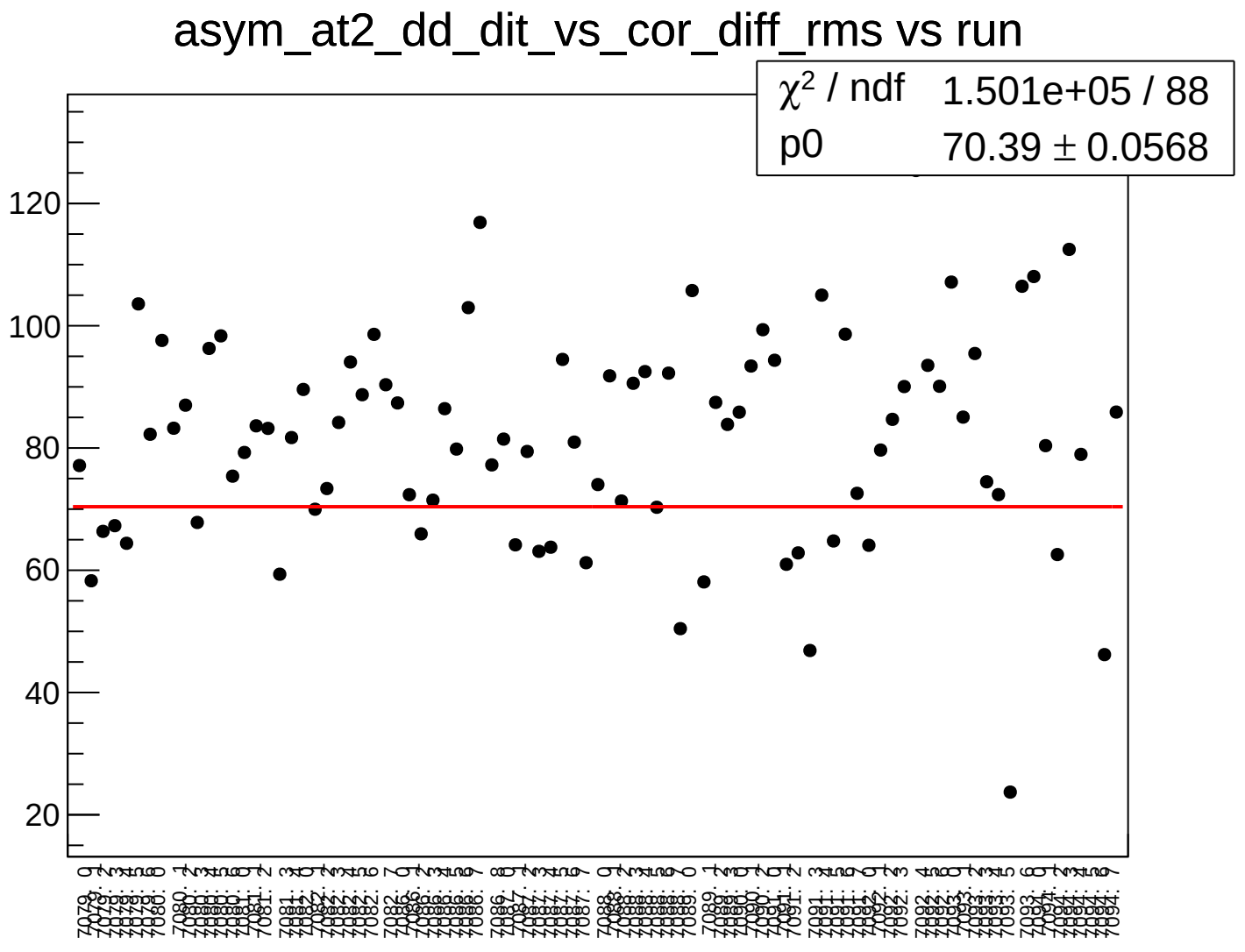

asym_at2_dd_rms vs run
χ² / ndf 296.8 / 88
p0 1955 ± 1.506
2040
2020
2000
1980
1960
1940
1920
1900
1880

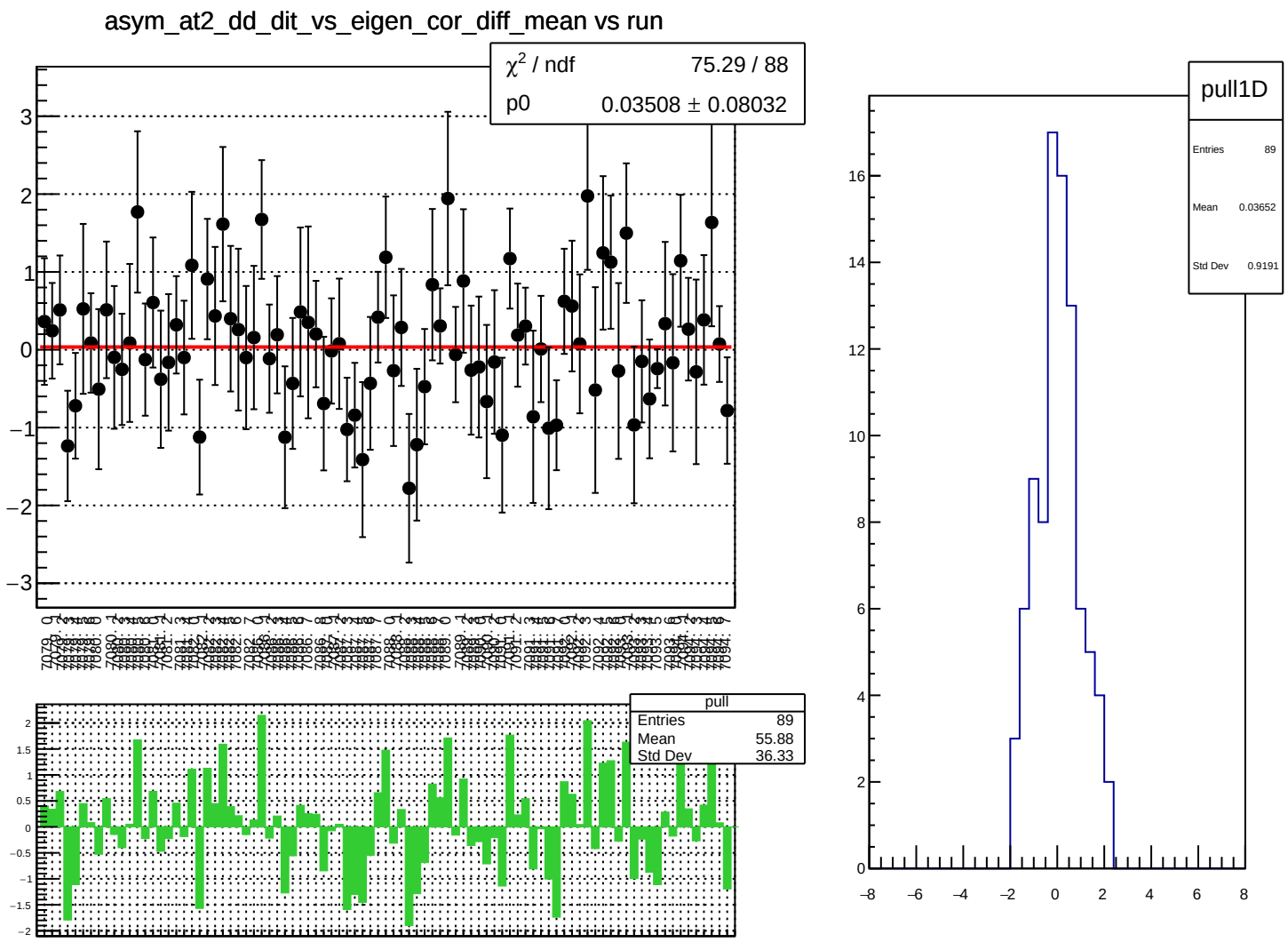

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.5 / 88
p0 4.826e−14 ± 3.547e−14
pull
Entries 89
Mean 27.43
Std Dev 21.73

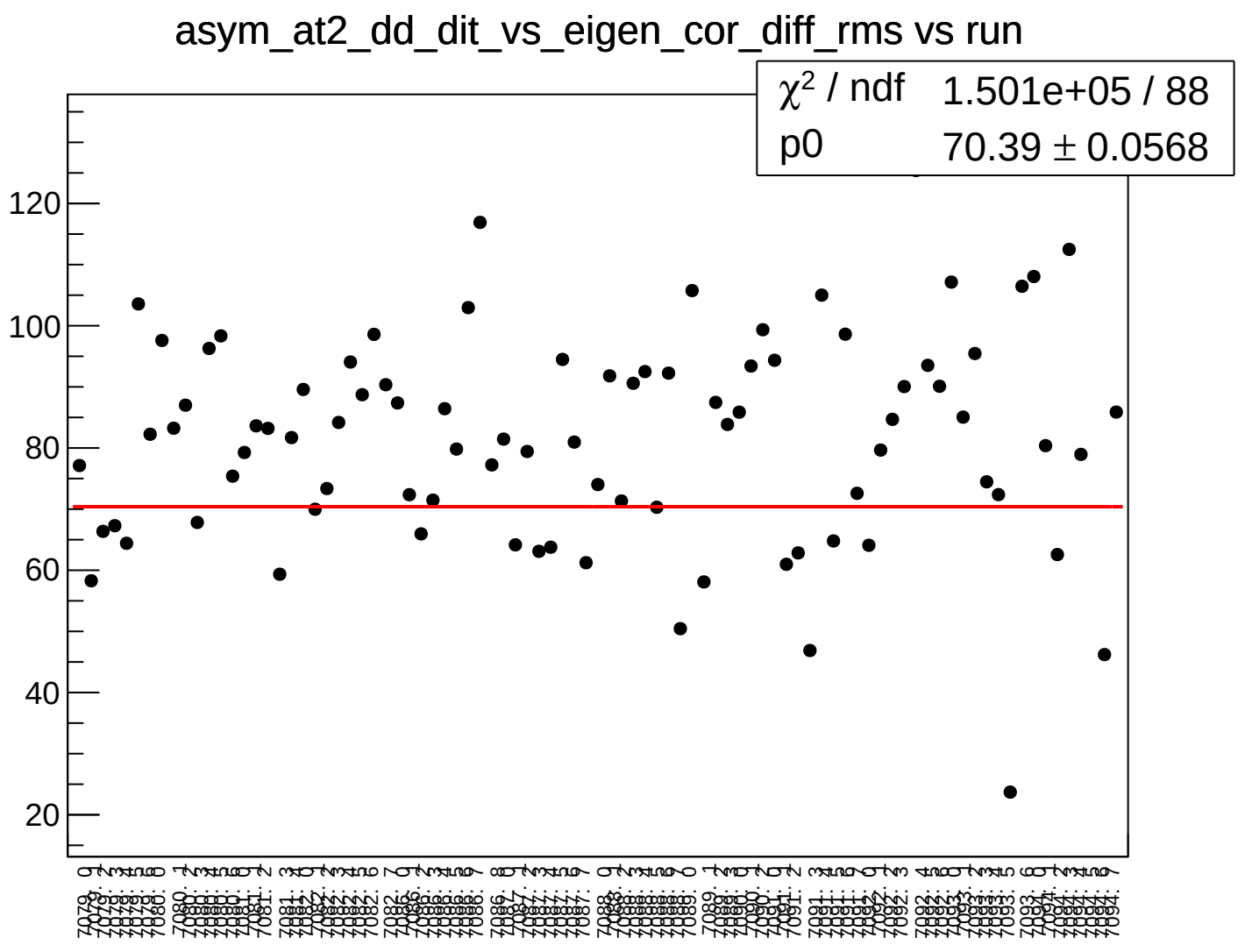

pull1D
Entries 89
Mean 0.08772
Std Dev 0.9704

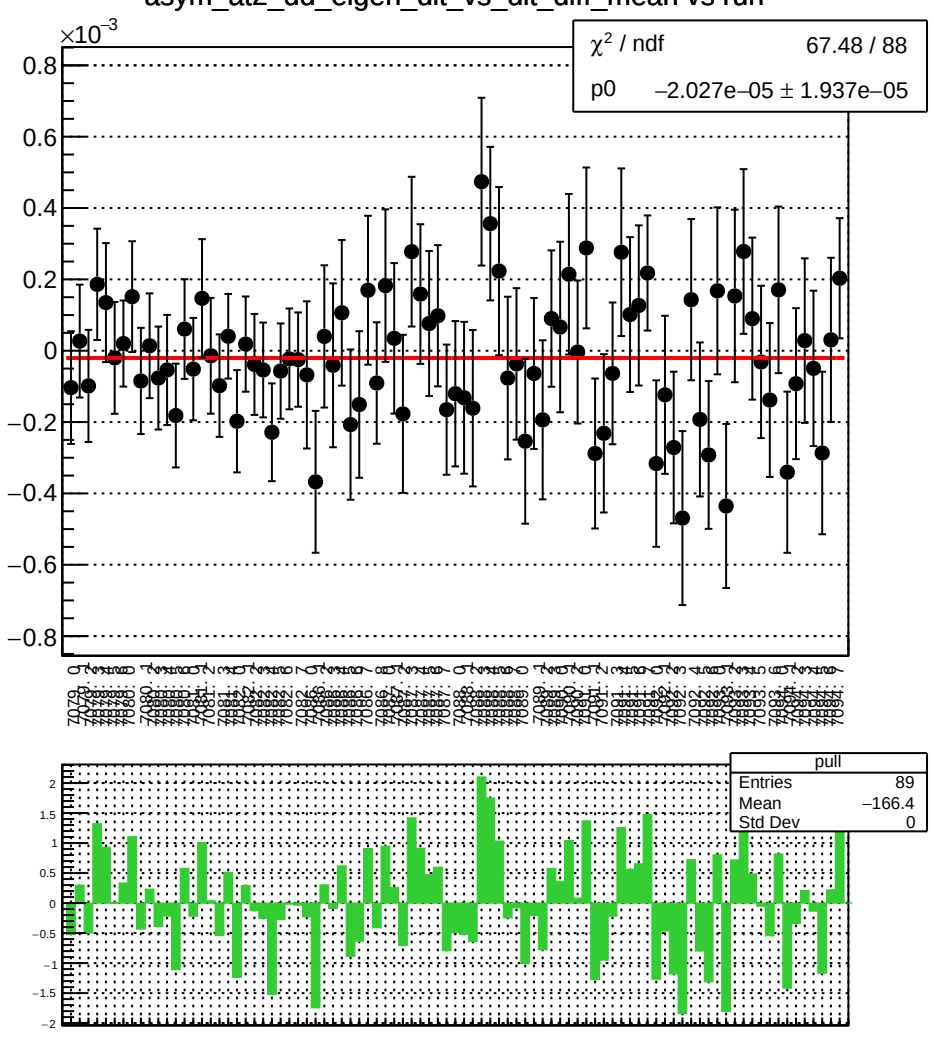

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.01e+06 / 88
p0 2.063e−11 ± 2.508e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

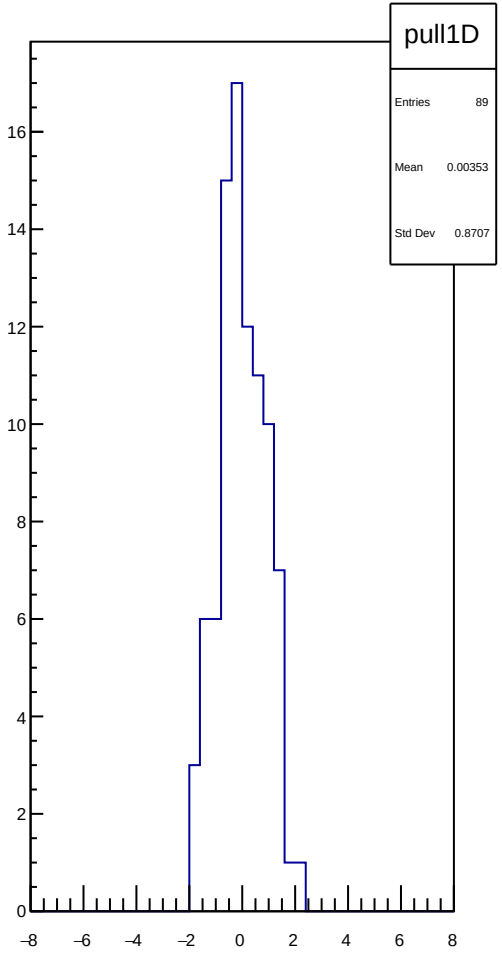

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ^2 / ndf 75.29 / 88
p0 0.03508 ± 0.08032
pull
Entries 89
Mean 55.88
Std Dev 36.33
pull1D
Entries 89
Mean 0.03652
Std Dev 0.9191

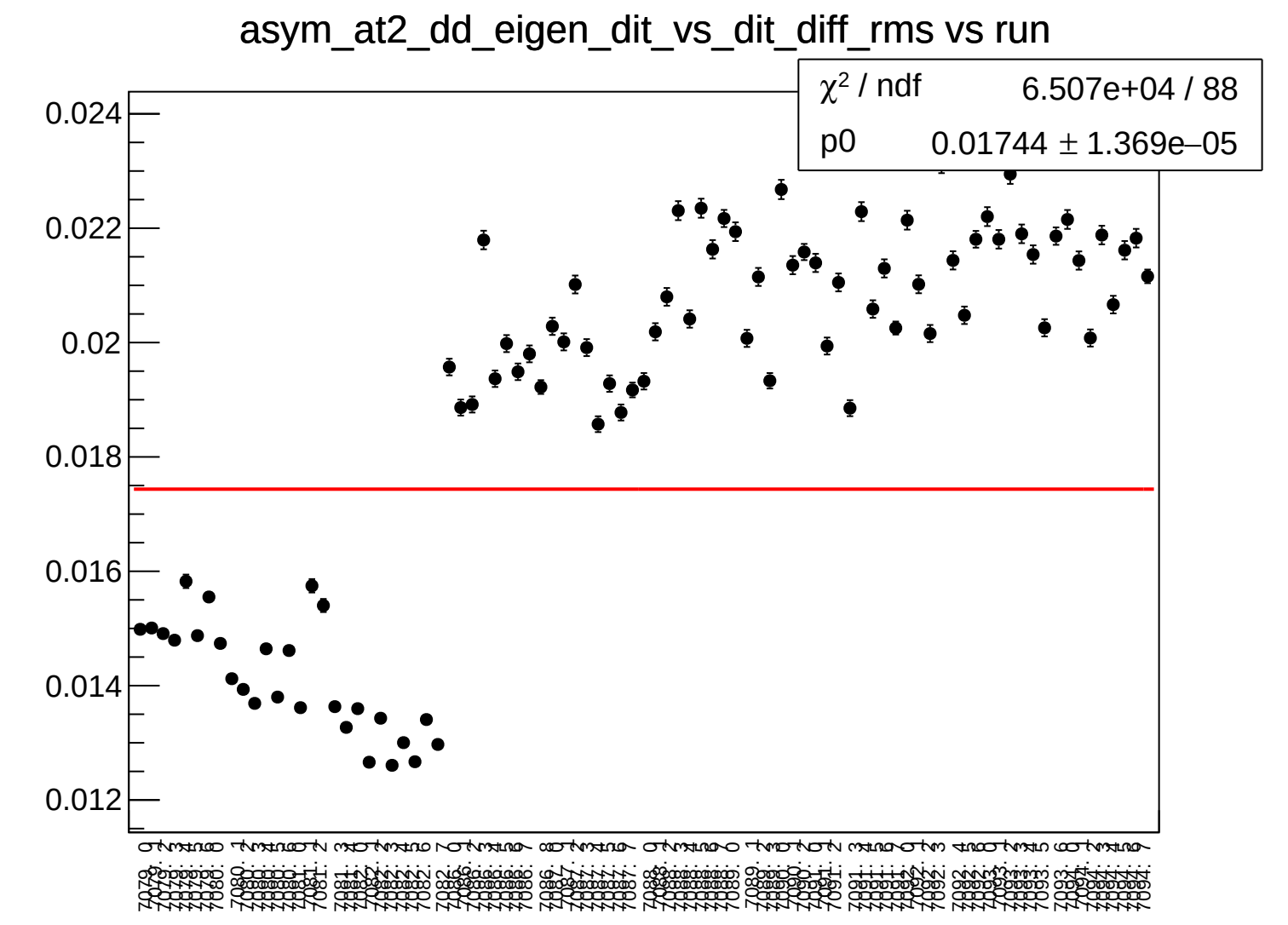

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.501e+05 / 88
p0 70.39 ± 0.0568
120
100
80
60
40
20

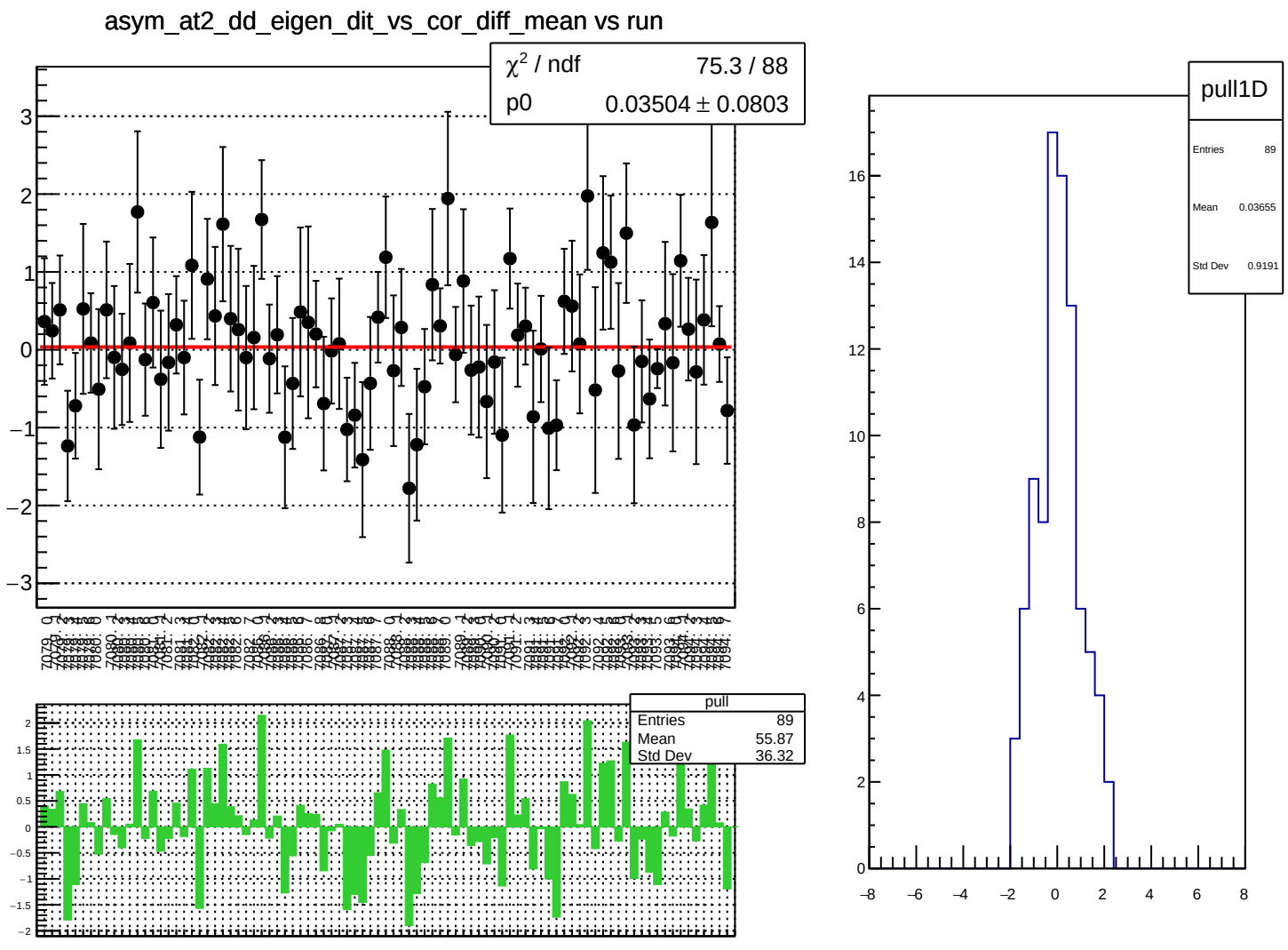

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.29 / 88
p0 0.03508 ± 0.08032
pull
Entries 89
Mean 55.88
Std Dev 36.33
pull1D
Entries 89
Mean 0.03652
Std Dev 0.9191

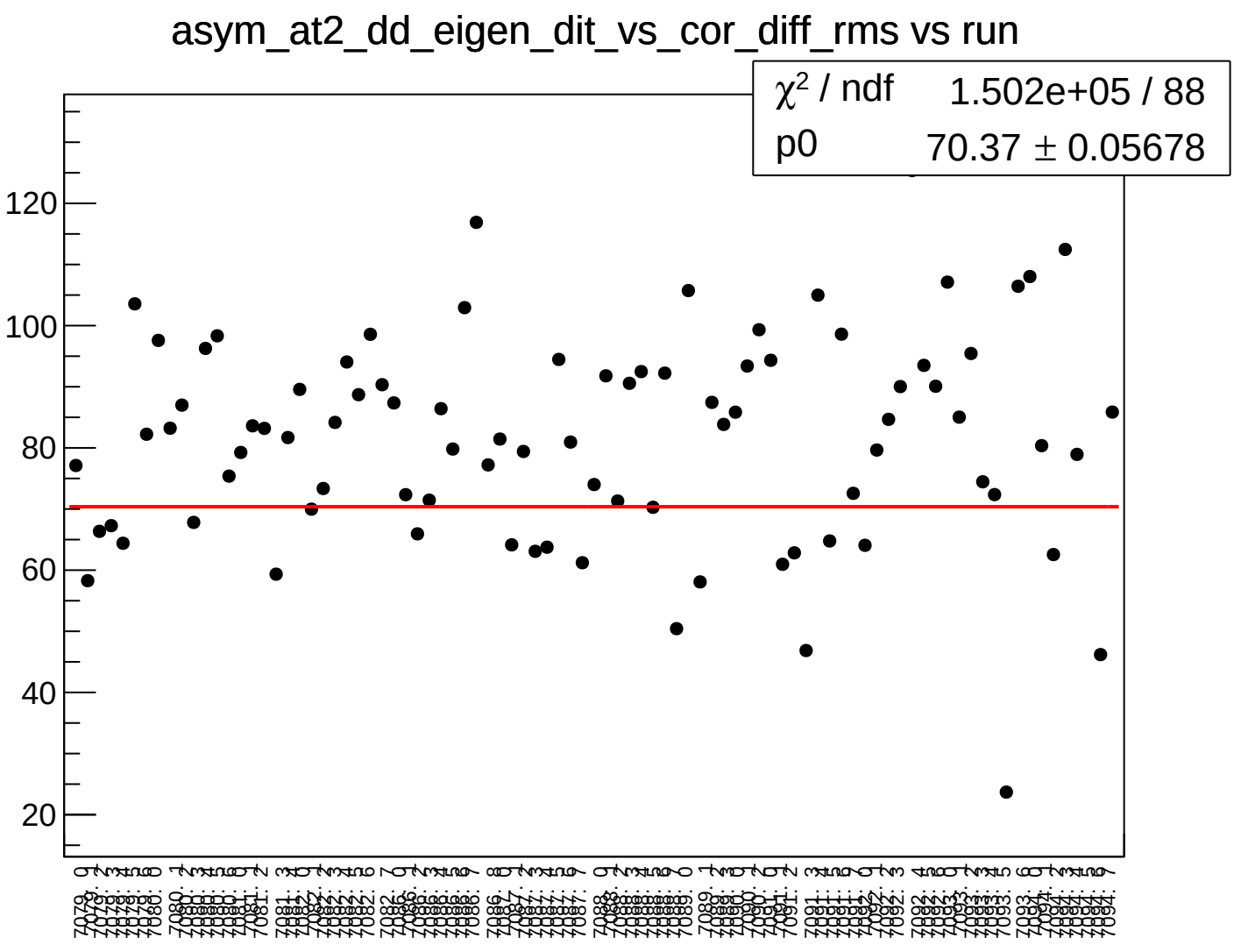

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.501e+05 / 88
p0 70.39 ± 0.0568
120
100
80
60
40
20

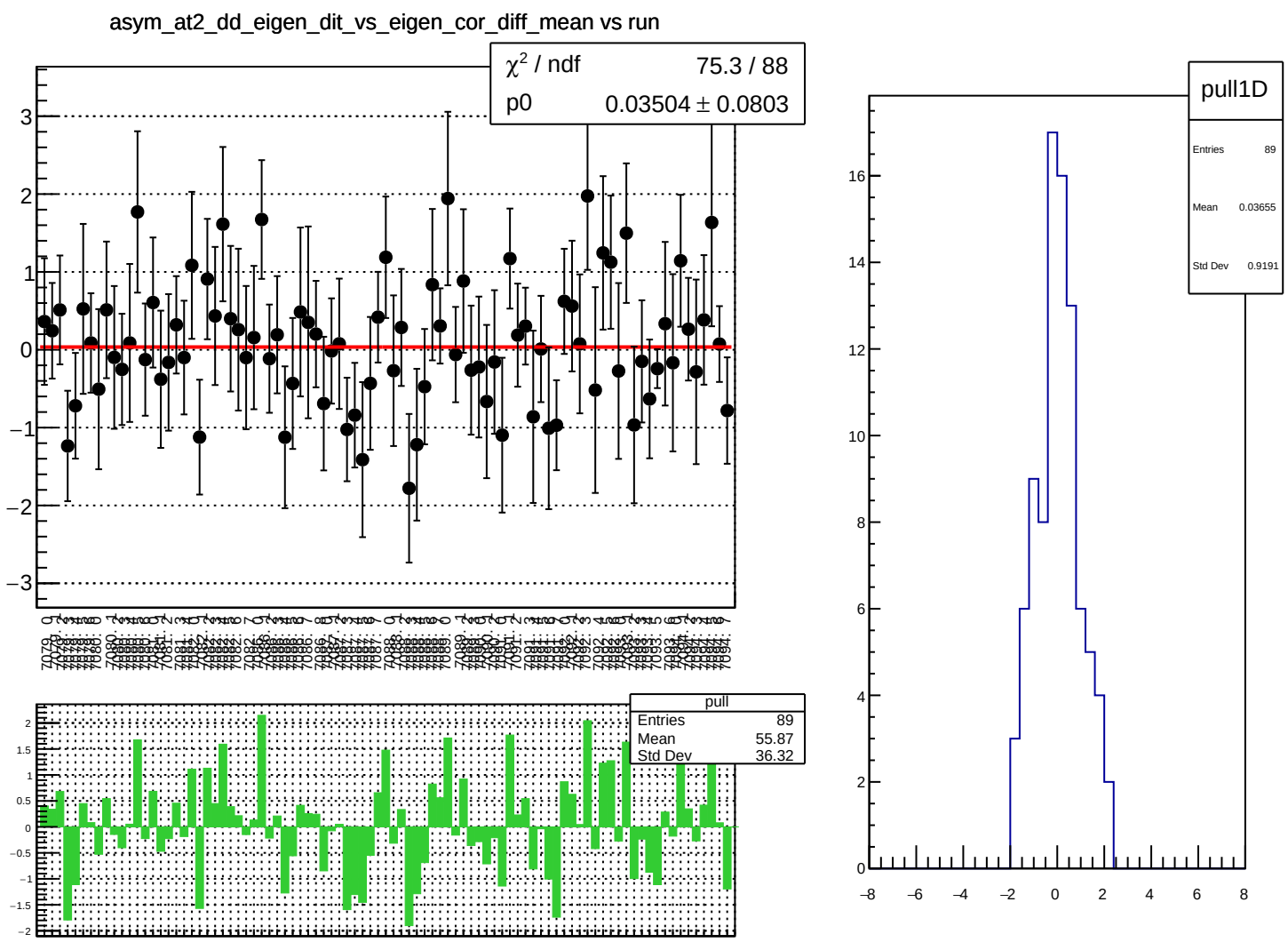

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 67.48 / 88
p0 −2.027e−05 ± 1.937e−05
pull
Entries 89
Mean −166.4
Std Dev 0

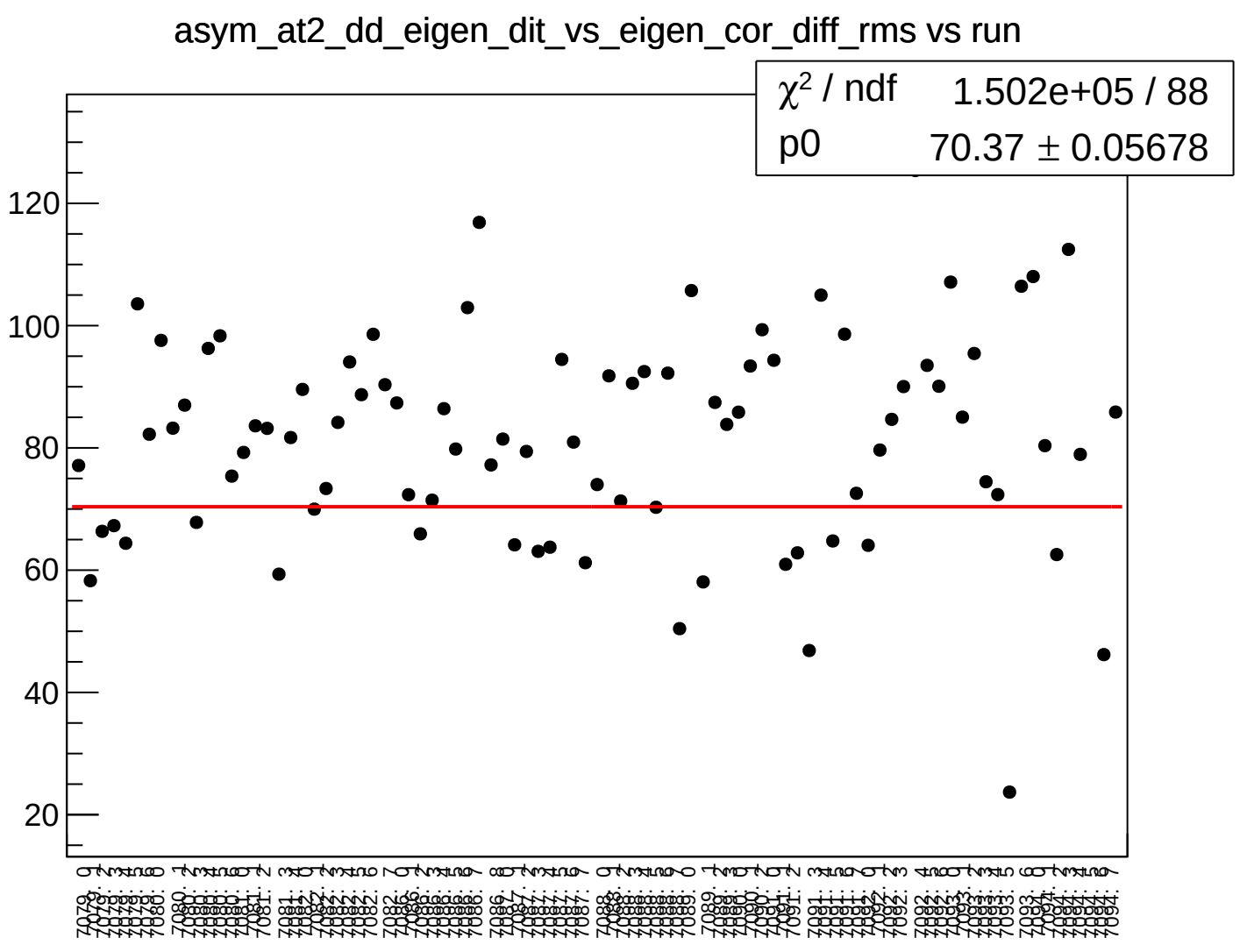

pull1D
Entries 89
Mean 0.00353
Std Dev 0.8707

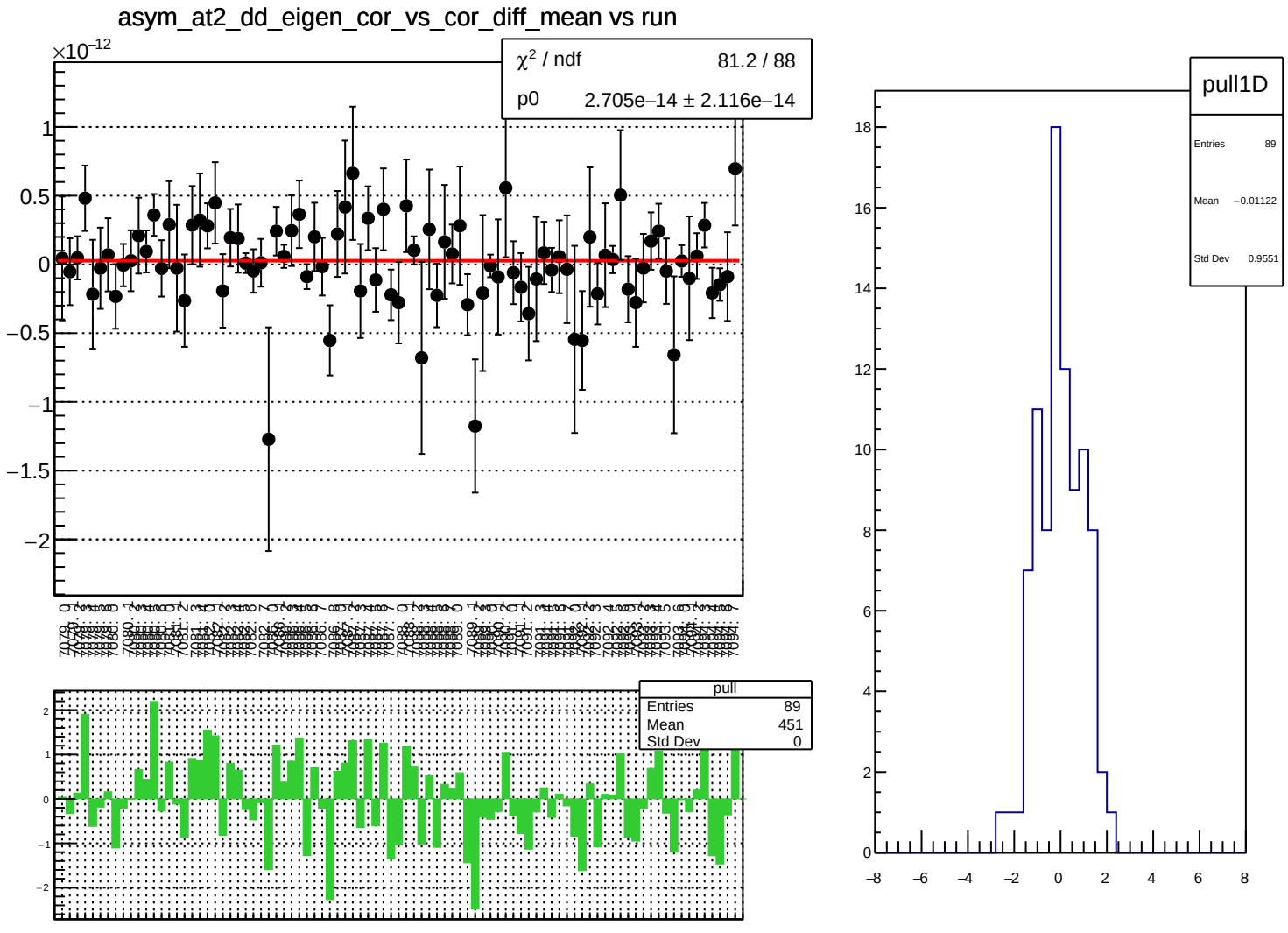

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.507e+04 / 88
p0 0.01744 ± 1.369e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

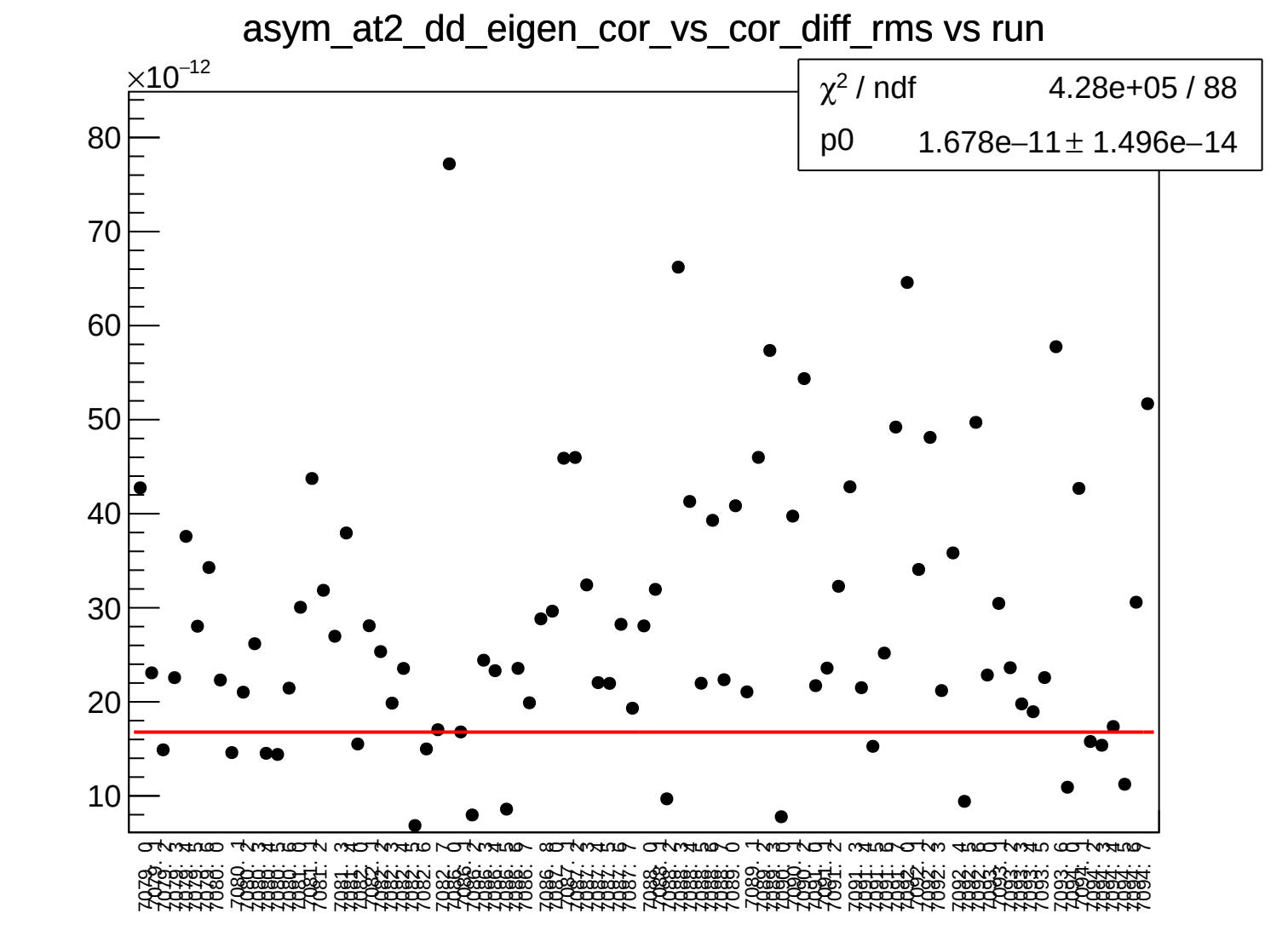

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.3 / 88
p0 0.03504 ± 0.0803
pull
Entries 89
Mean 55.87
Std Dev 36.32
pull1D
Entries 89
Mean 0.03655
Std Dev 0.9191

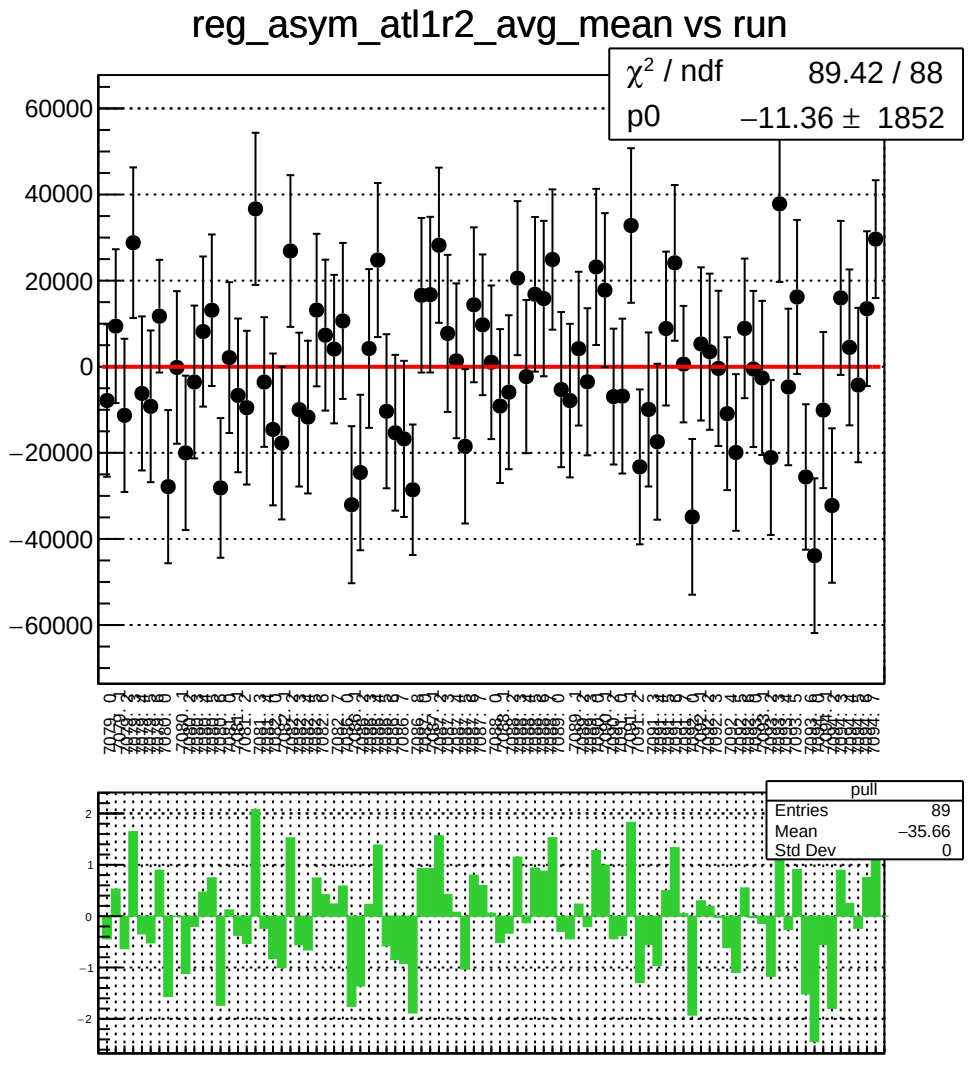

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.502e+05 / 88
p0 70.37 ± 0.05678
120
100
80
60
40
20

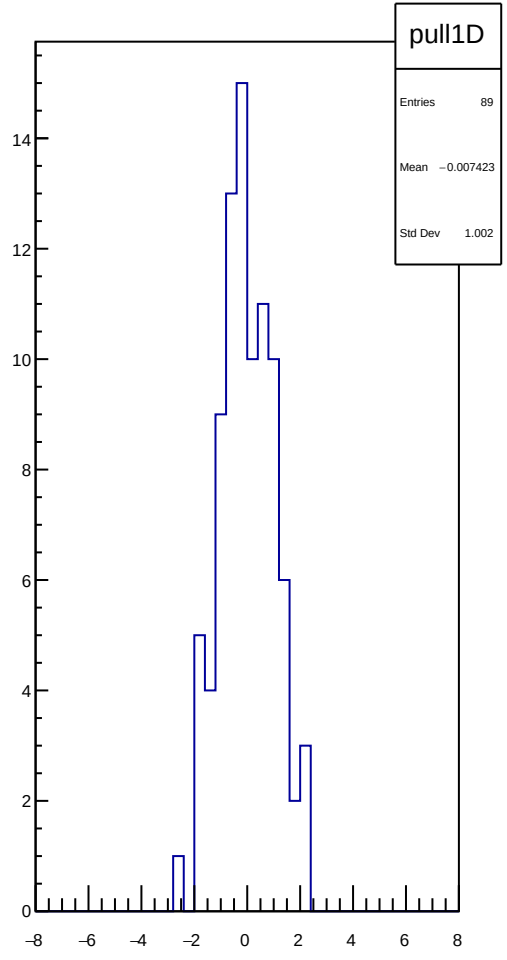

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.3 / 88
p0 0.03504 ± 0.0803
pull
Entries 89
Mean 55.87
Std Dev 36.32
pull1D
Entries 89
Mean 0.03655
Std Dev 0.9191

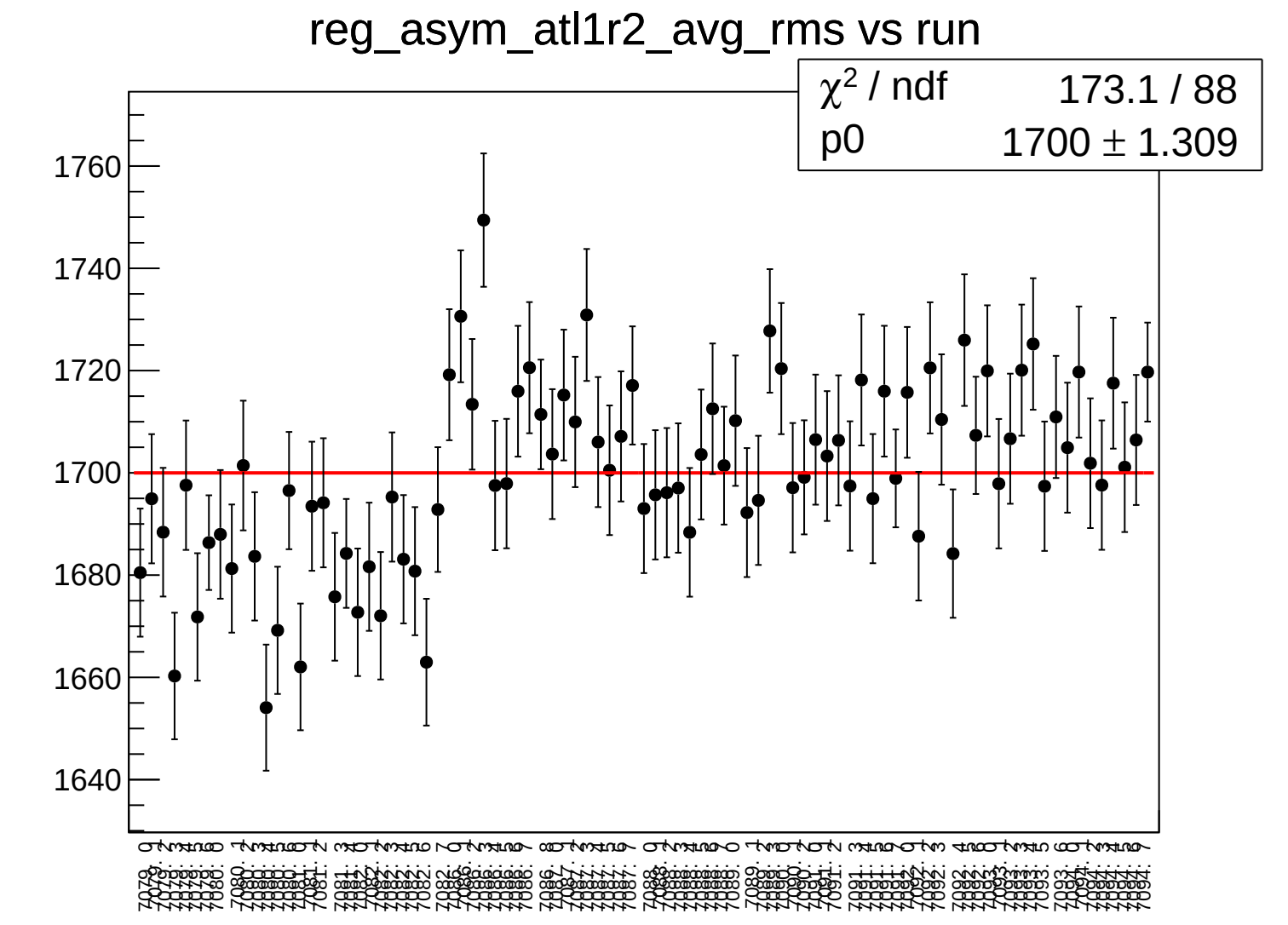

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.502e+05 / 88
p0 70.37 ± 0.05678
120
100
80
60
40
20

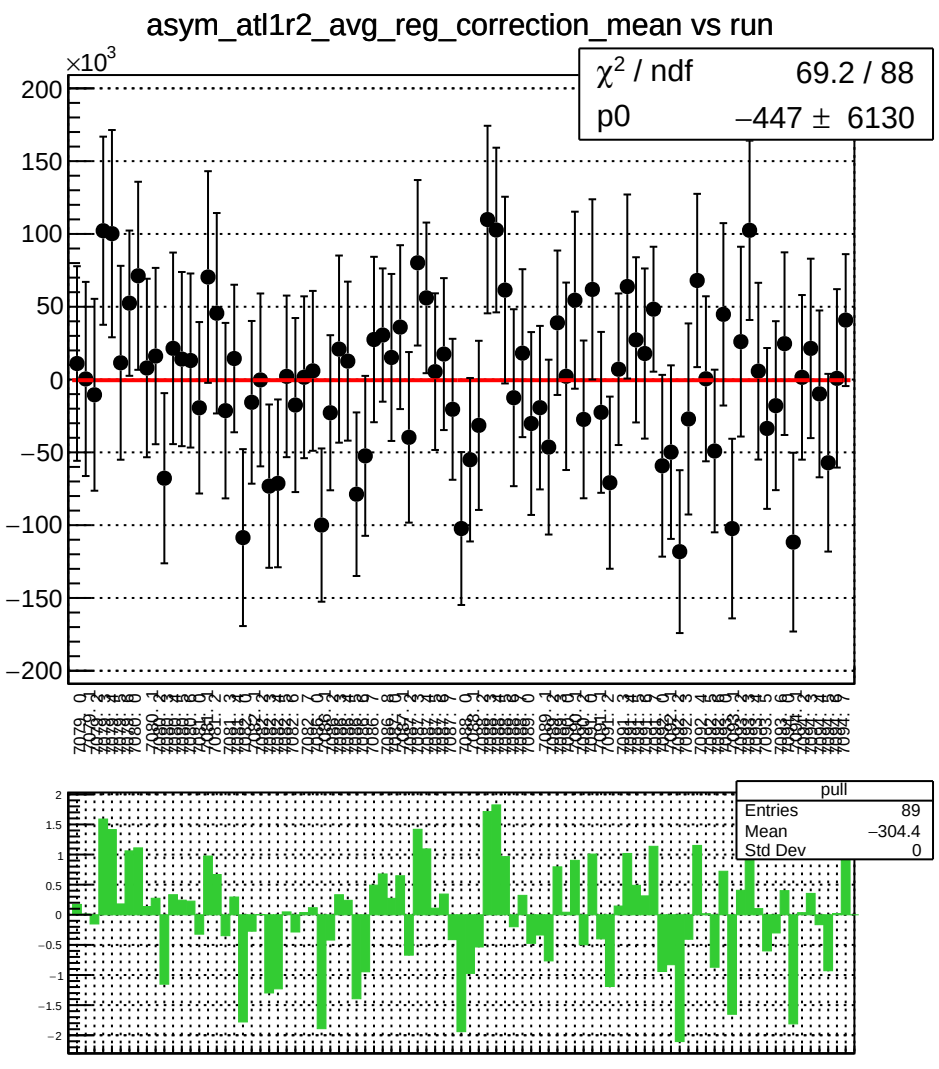

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.2 / 88
p0 2.705e−14 ± 2.116e−14
1
0.5
0
−0.5
−1
−1.5
−2
pull
Entries 89
Mean 451
Std Dev 0
pull1D
Entries 89
Mean −0.01122
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

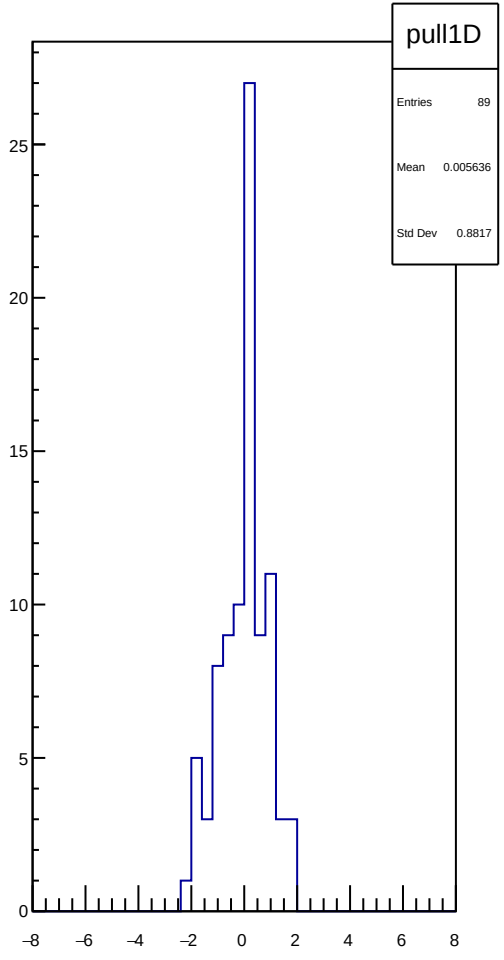

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.28e+05 / 88
p0 1.678e−11 ± 1.496e−14
80
70
60
50
40
30
20
10

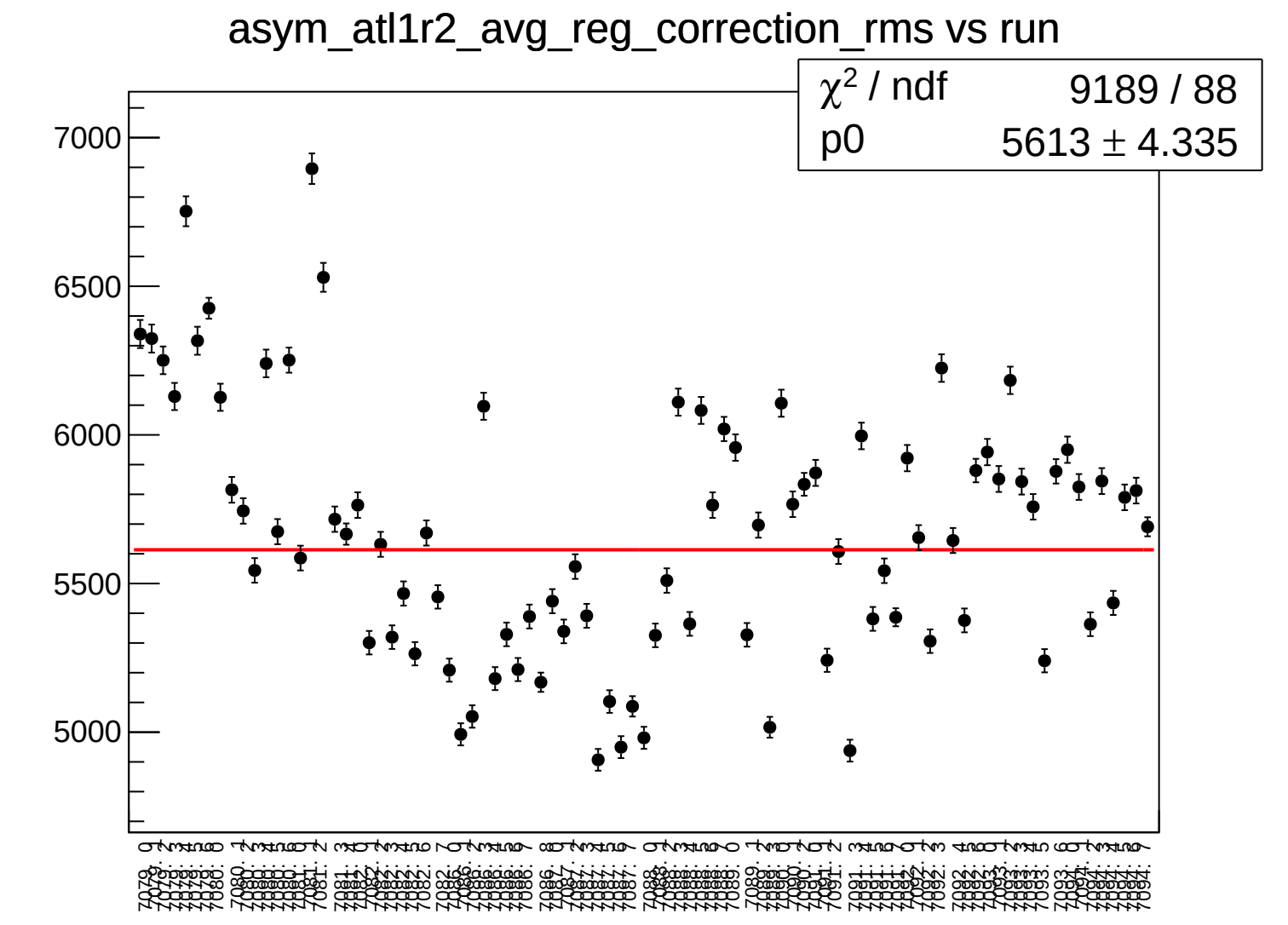

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 89.42 / 88
p0 −11.36 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −35.66
Std Dev 0
2
1
0
−1
−2

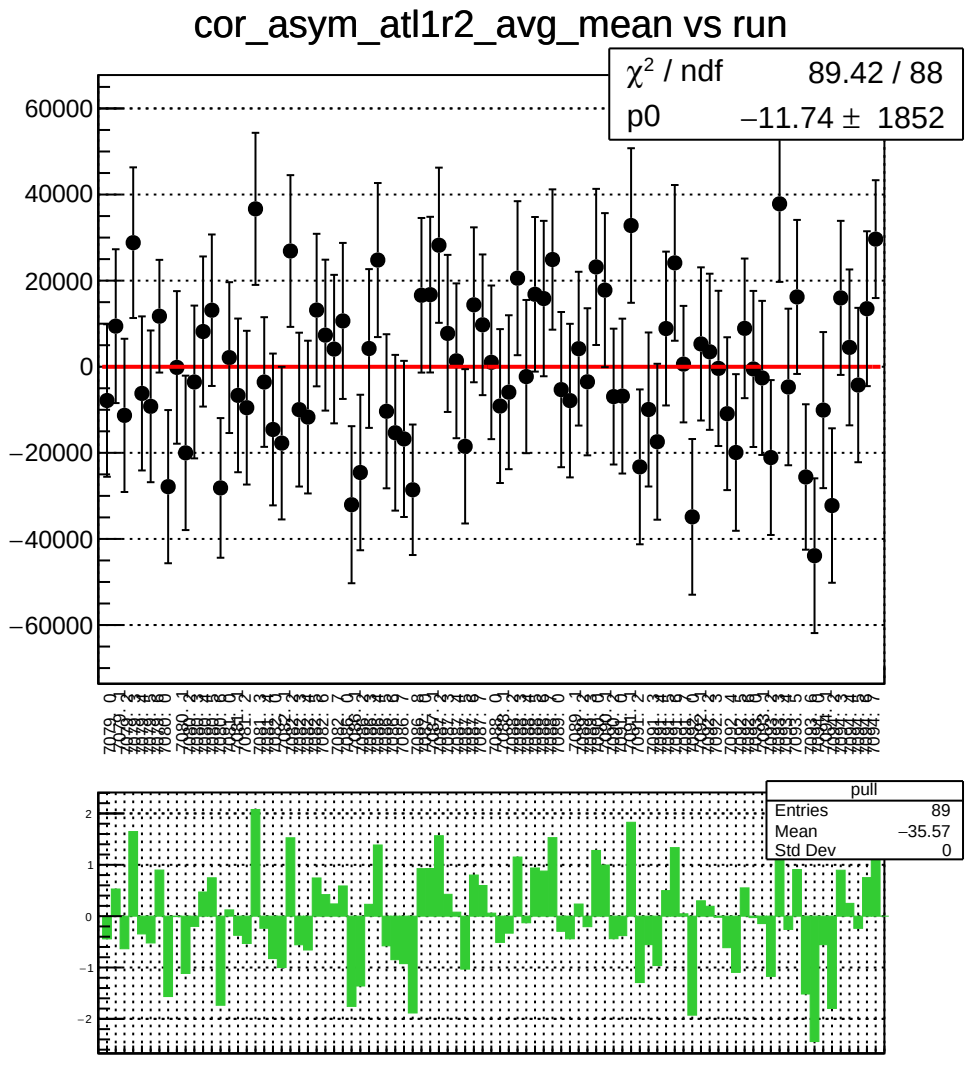

pull1D
Entries 89
Mean −0.007423
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

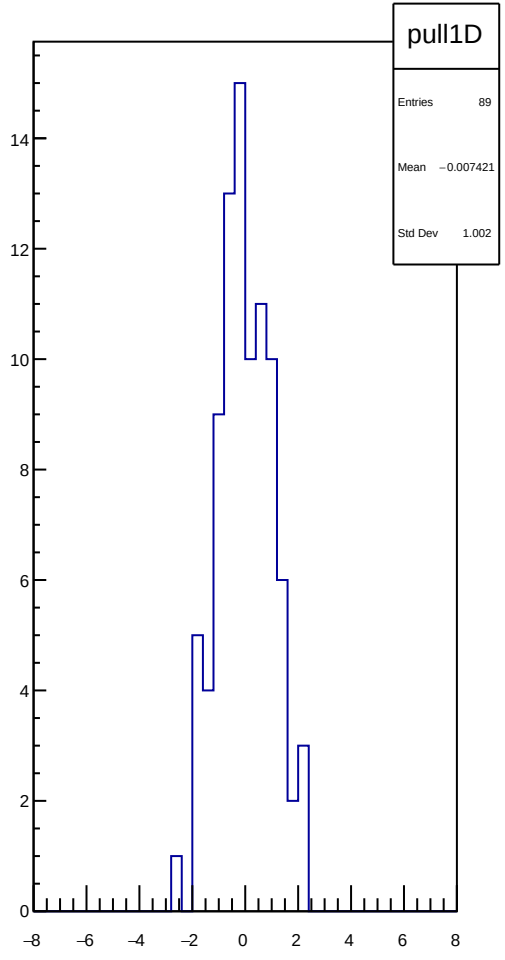

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 173.1 / 88
p0 1700 ± 1.309
1760
1740
1720
1700
1680
1660
1640

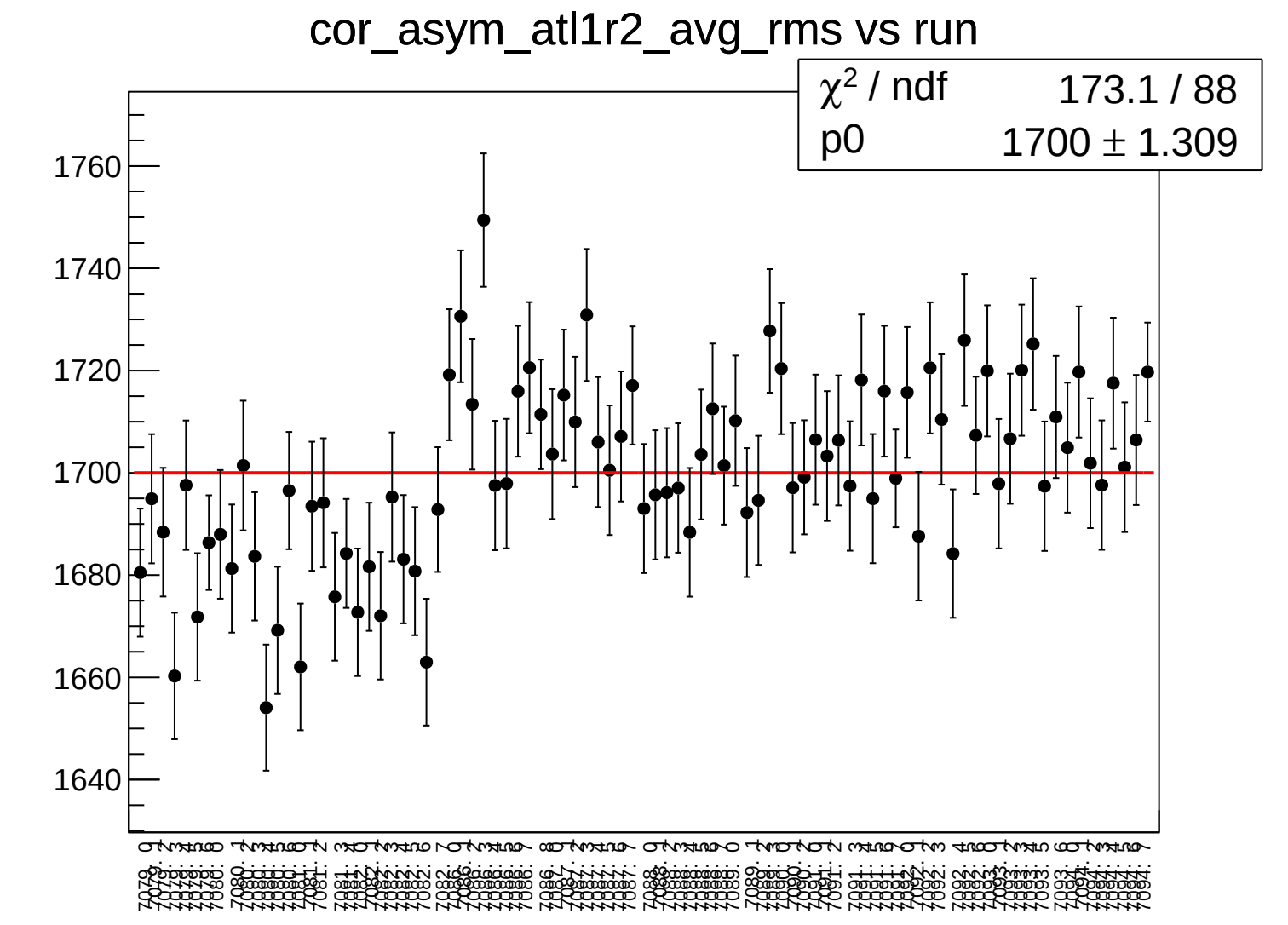

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.2 / 88
p0 −447 ± 6130
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −304.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

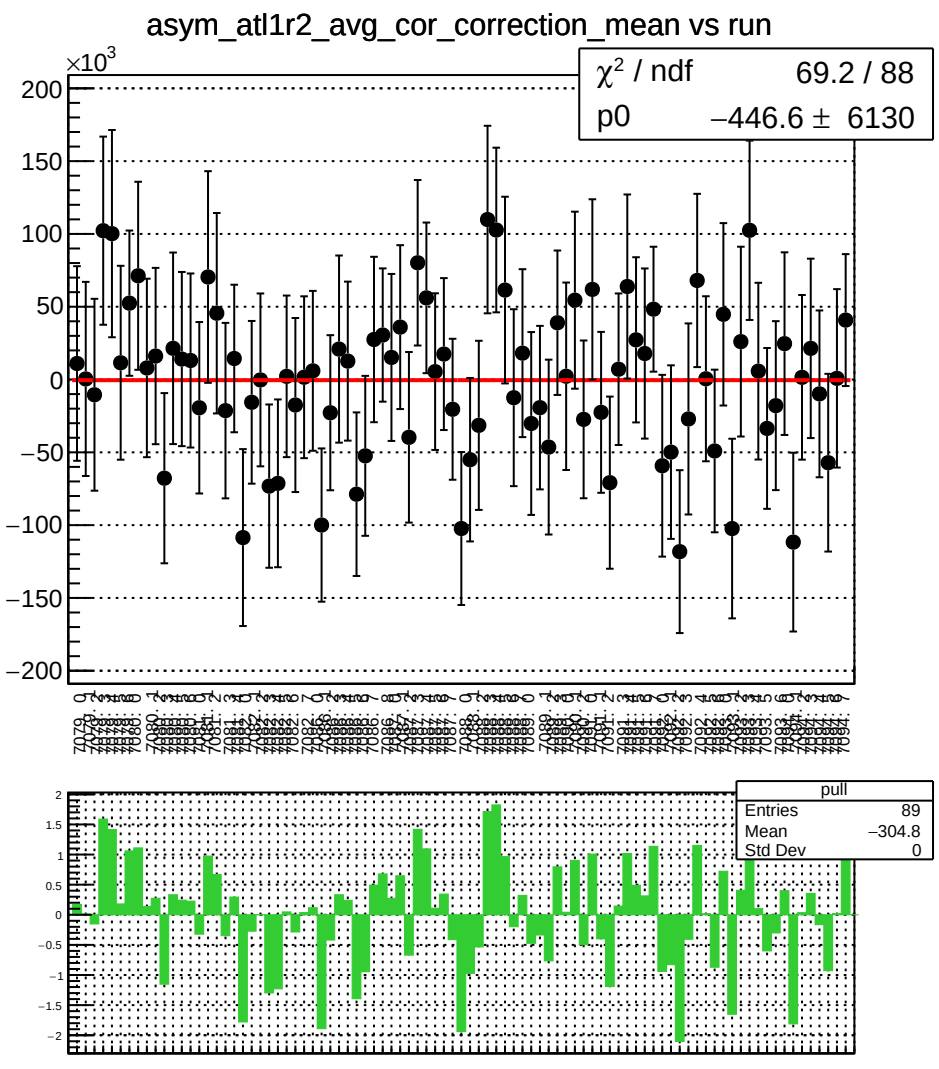

pull1D
Entries 89
Mean 0.005636
Std Dev 0.8817
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

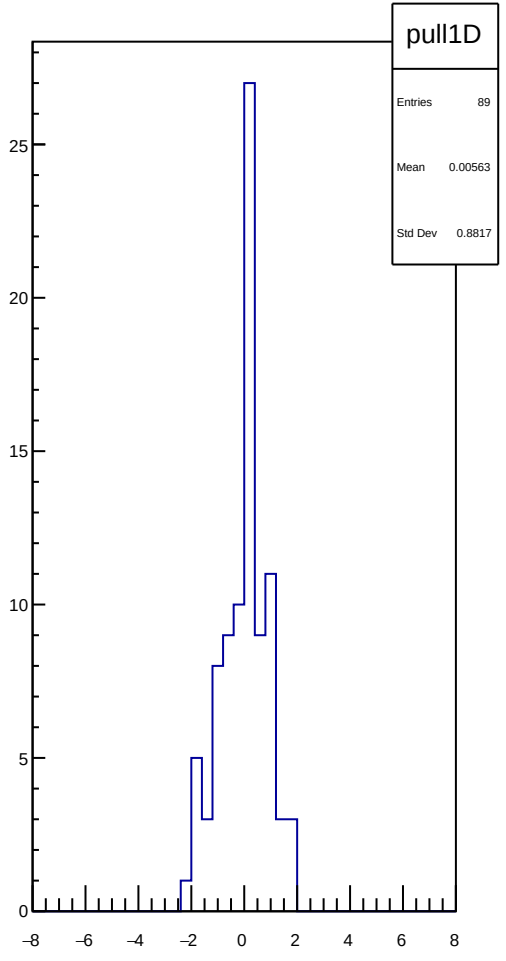

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 9189 / 88
p0 5613 ± 4.335
7000
6500
6000
5500
5000

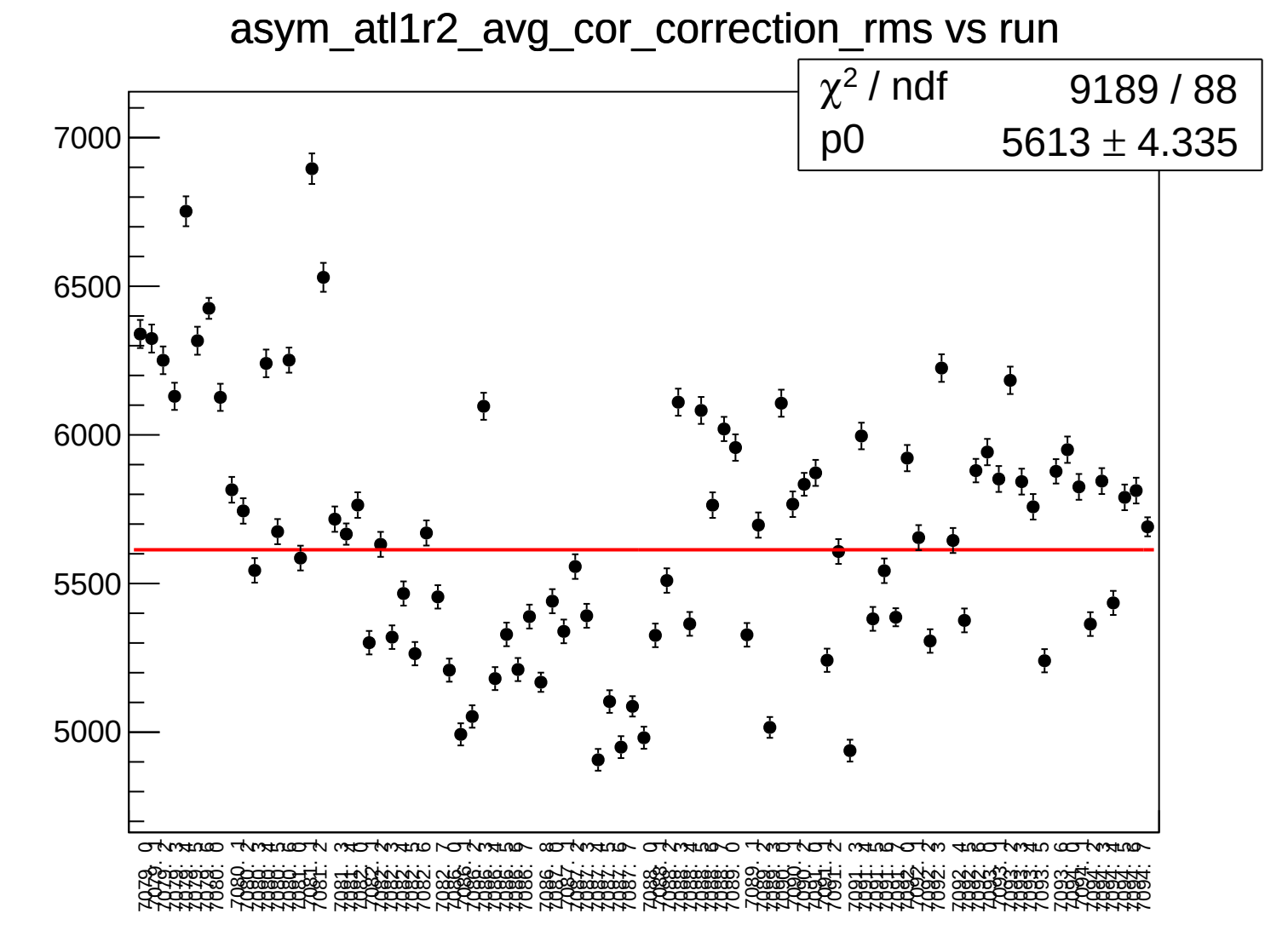

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 89.42 / 88
p0 −11.74 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −35.57
Std Dev 0
2
1
0
−1
−2

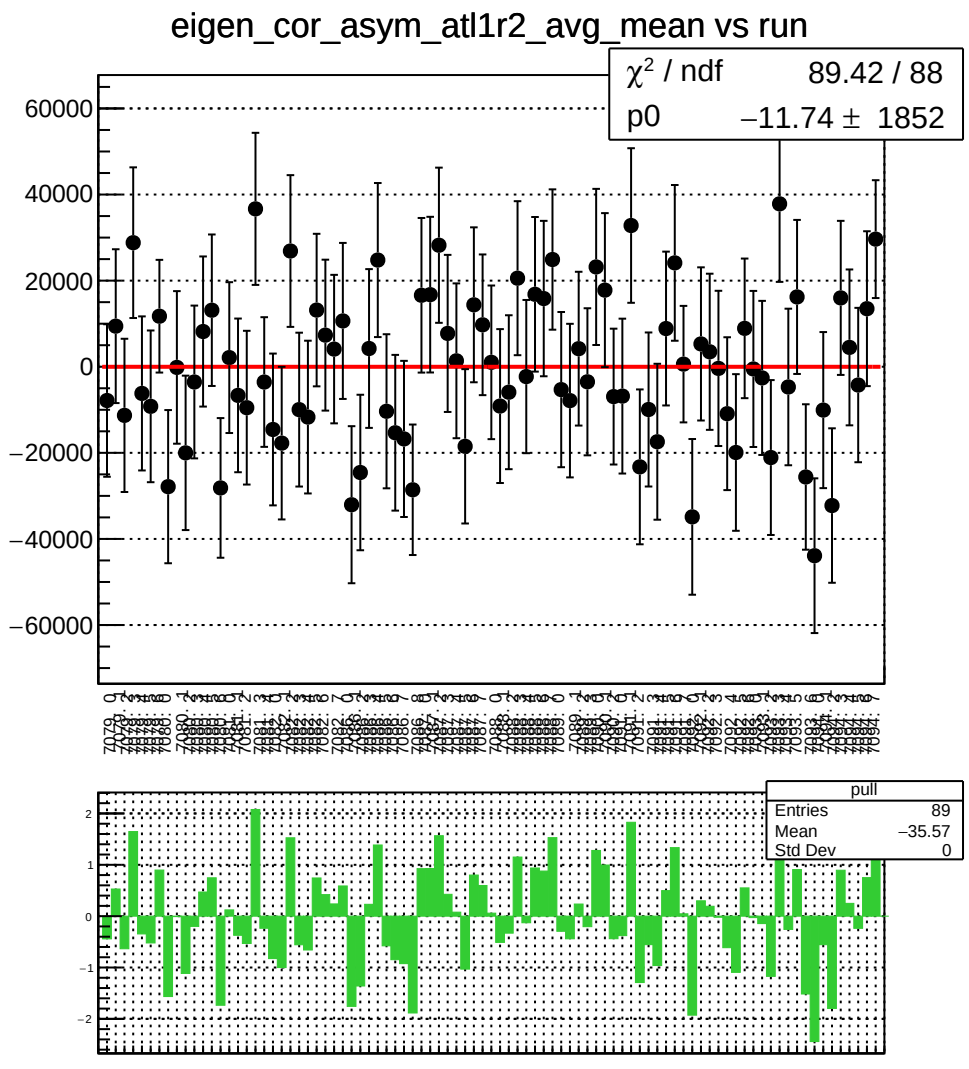

pull1D
Entries 89
Mean −0.007421
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

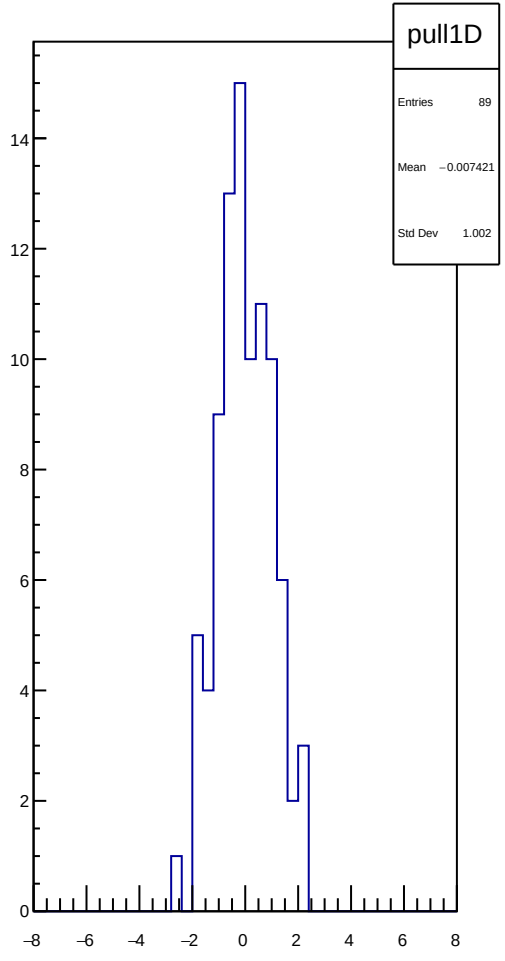

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 173.1 / 88
p0 1700 ± 1.309
1760
1740
1720
1700
1680
1660
1640

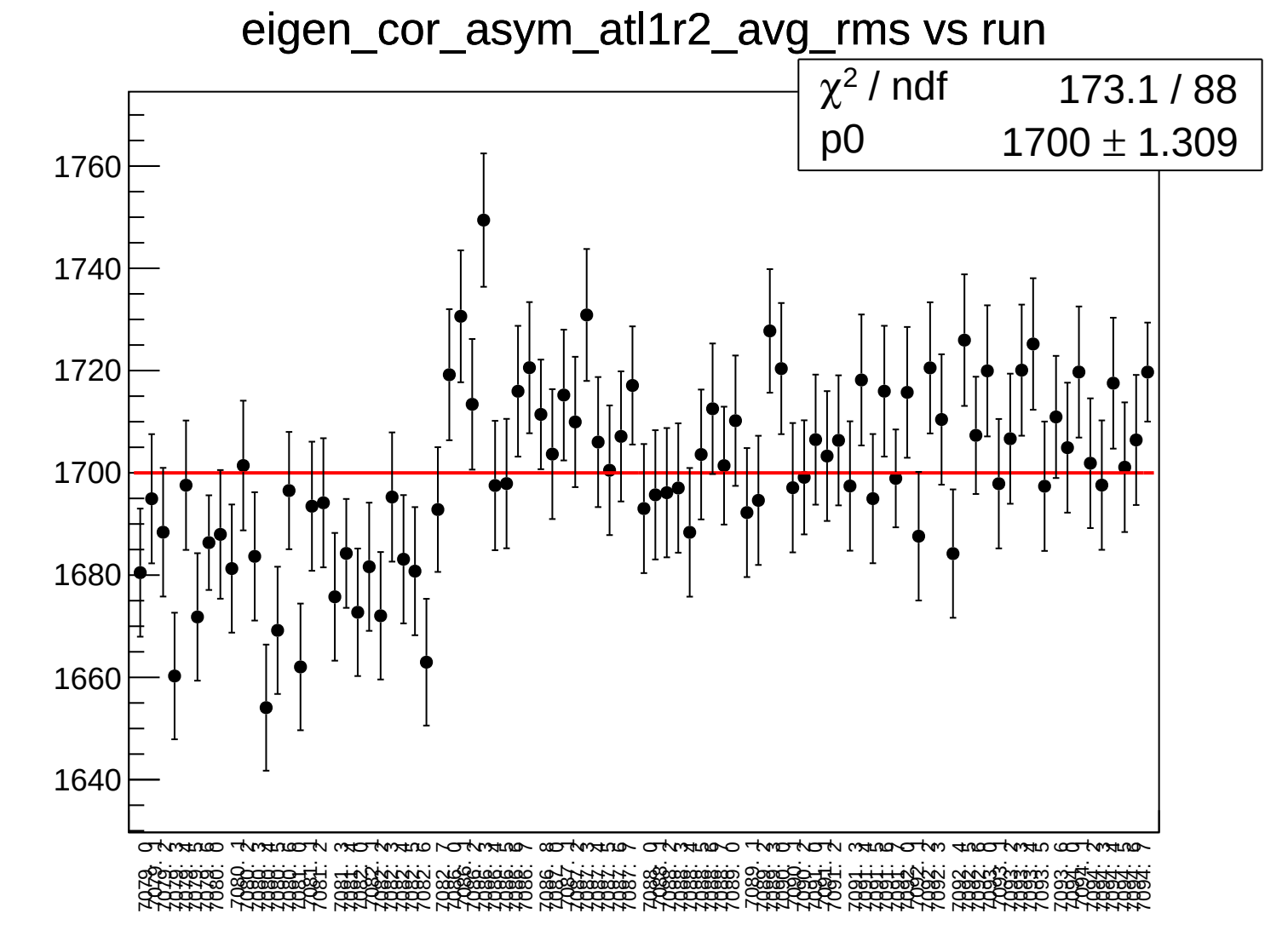

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.2 / 88
p0 −446.6 ± 6130
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −304.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

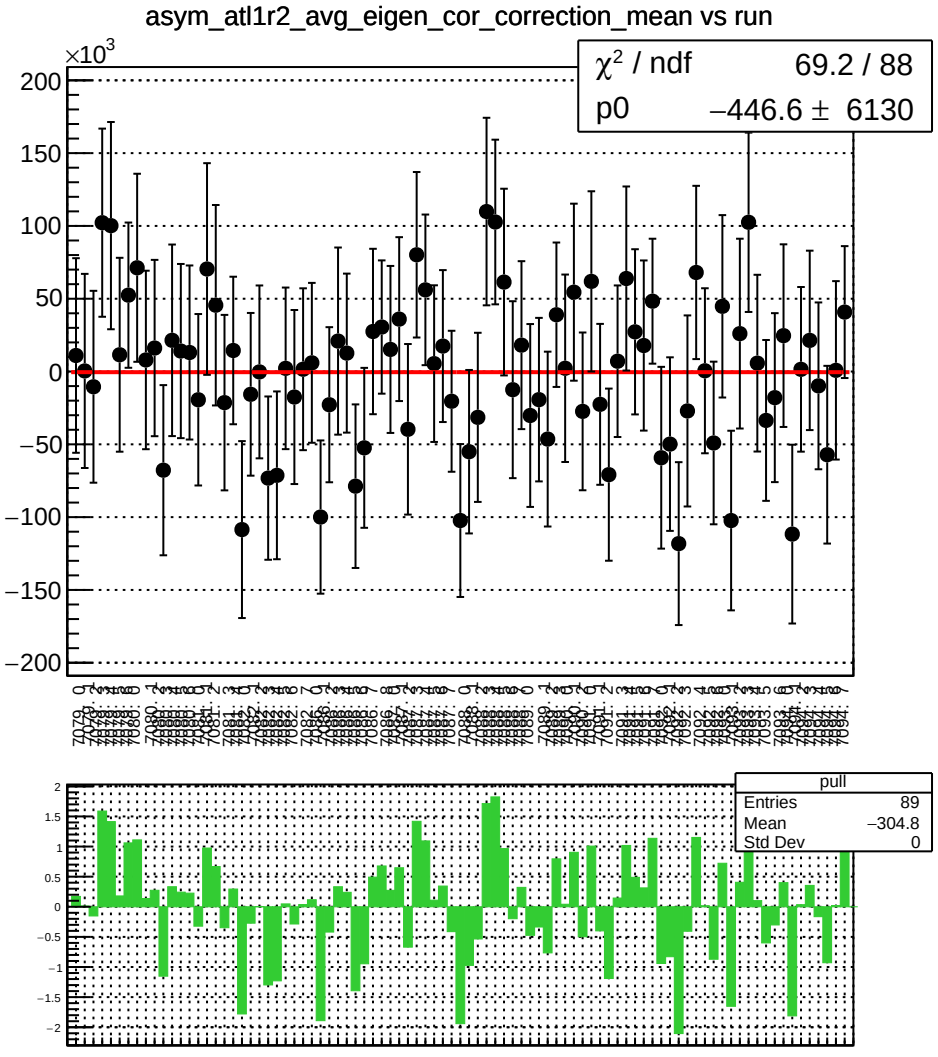

pull1D
Entries 89
Mean 0.00563
Std Dev 0.8817
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

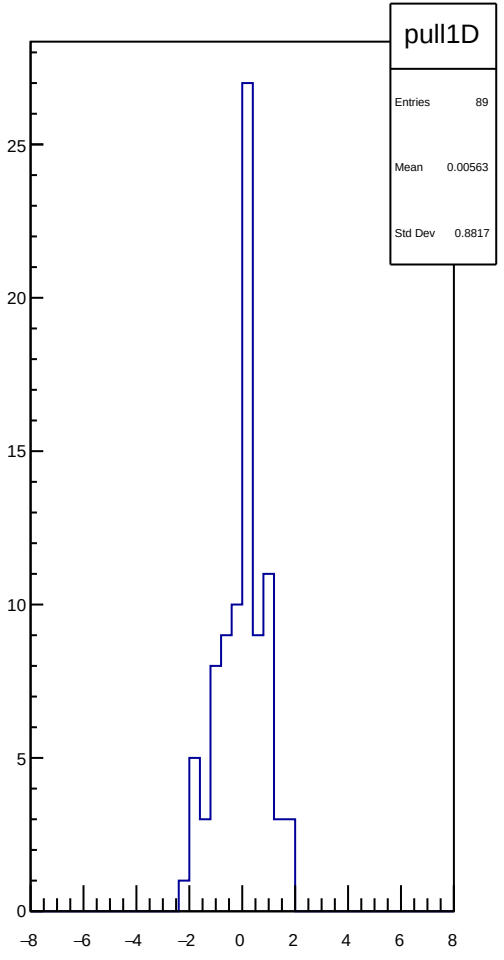

asym_atl1r2_avg_cor_correction_rms vs run
χ^2 / ndf 9189 / 88
p0 5613 ± 4.335
7000
6500
6000
5500
5000

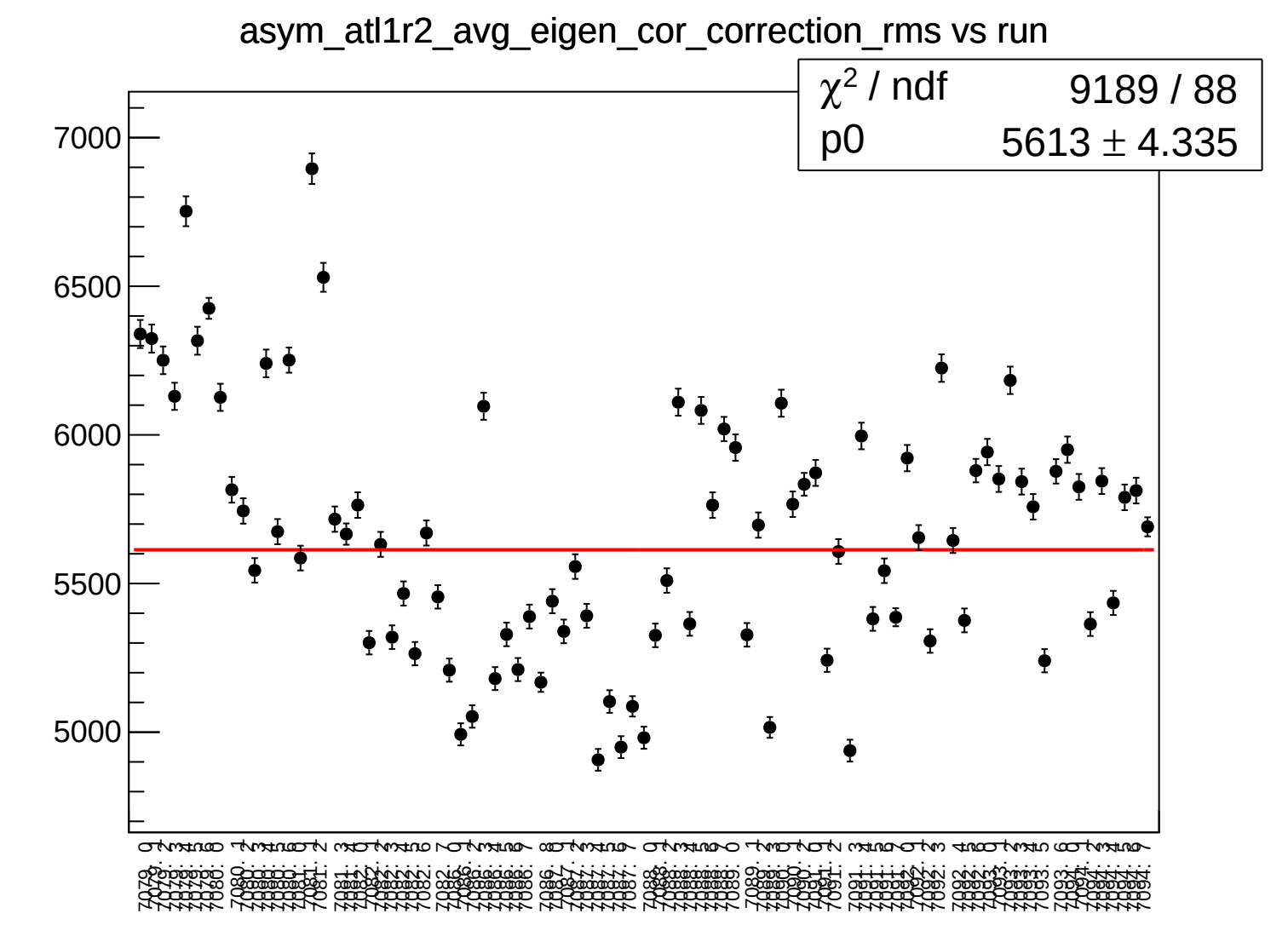

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 89.42 / 88
p0 −11.74 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −35.57
Std Dev 0
2
1
0
−1
−2

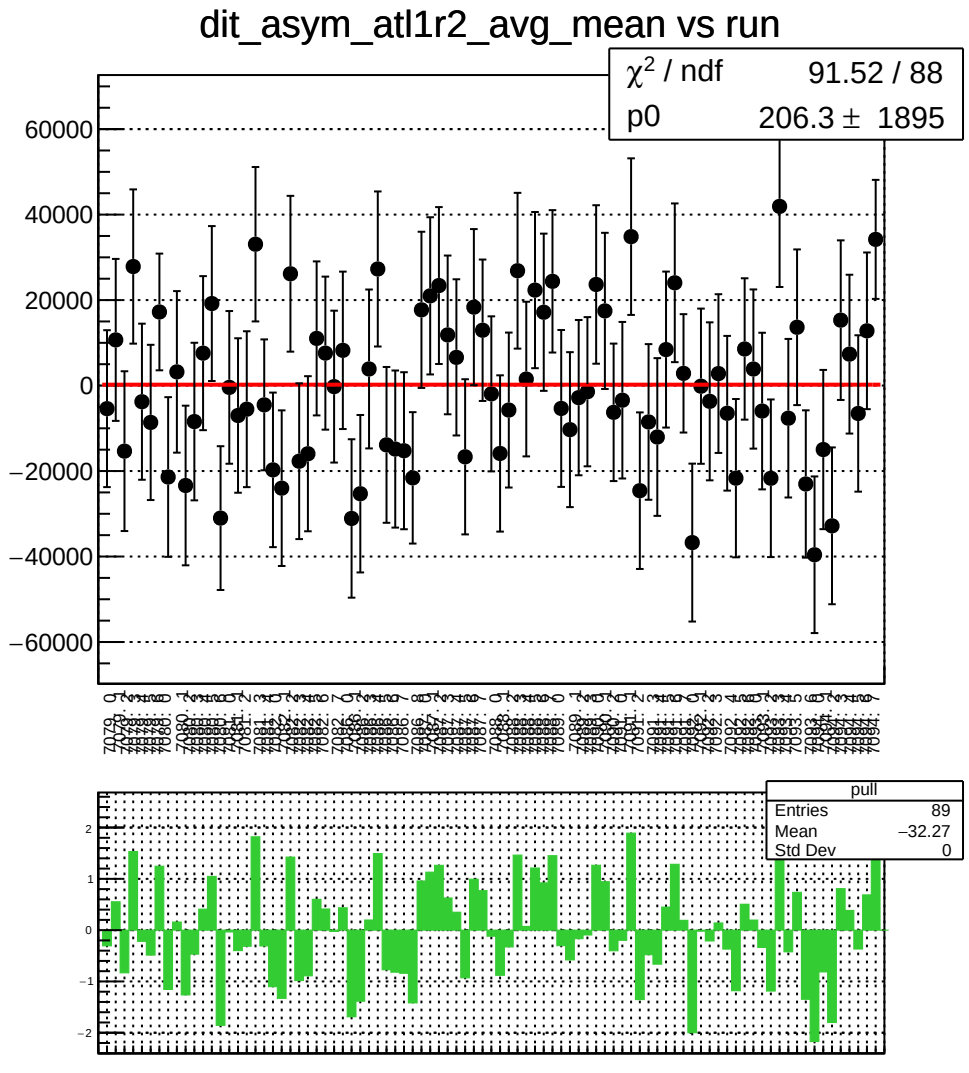

pull1D
Entries 89
Mean −0.007421
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

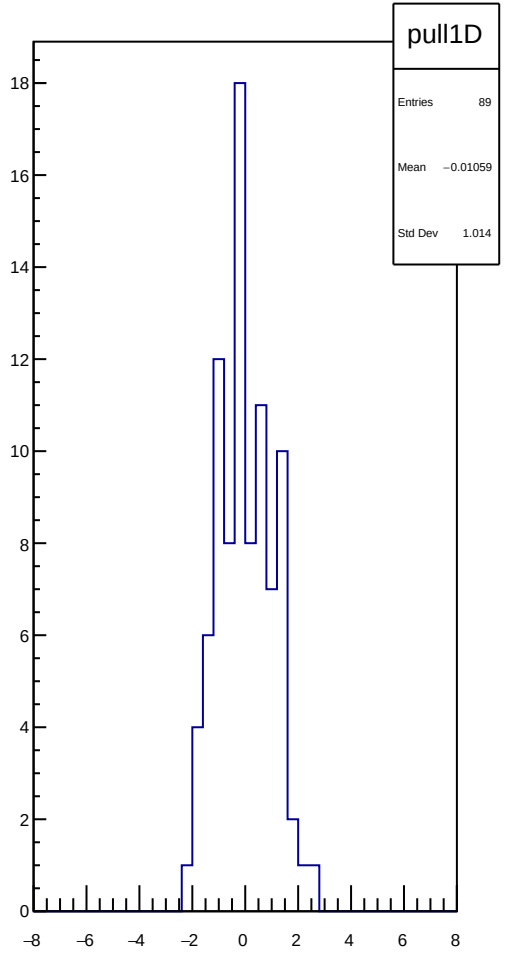

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 173.1 / 88
p0 1700 ± 1.309
1760
1740
1720
1700
1680
1660
1640


asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.2 / 88
p0 −446.6 ± 6130
pull
Entries 89
Mean −304.8
Std Dev 0

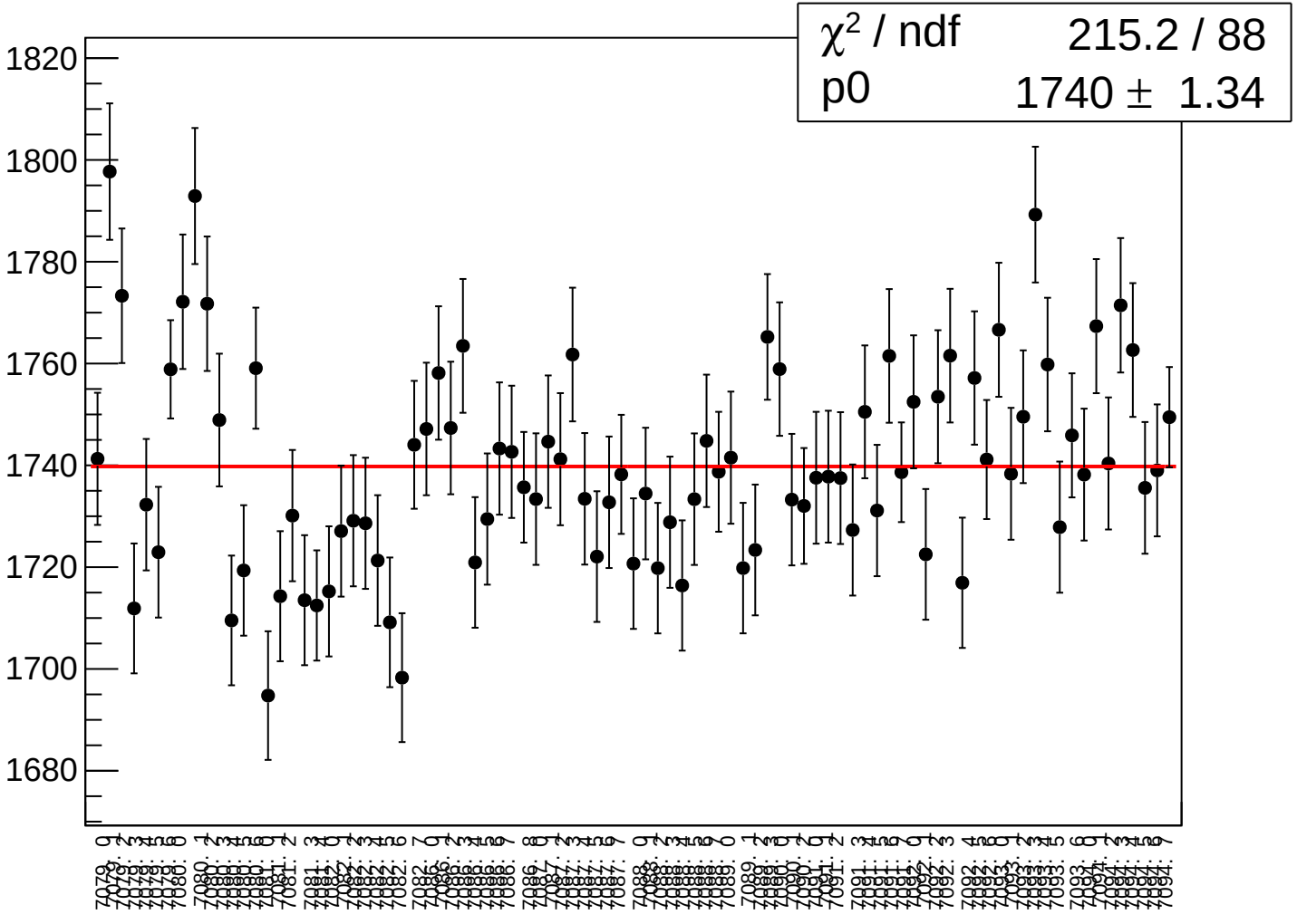

pull1D
Entries 89
Mean 0.00563
Std Dev 0.8817

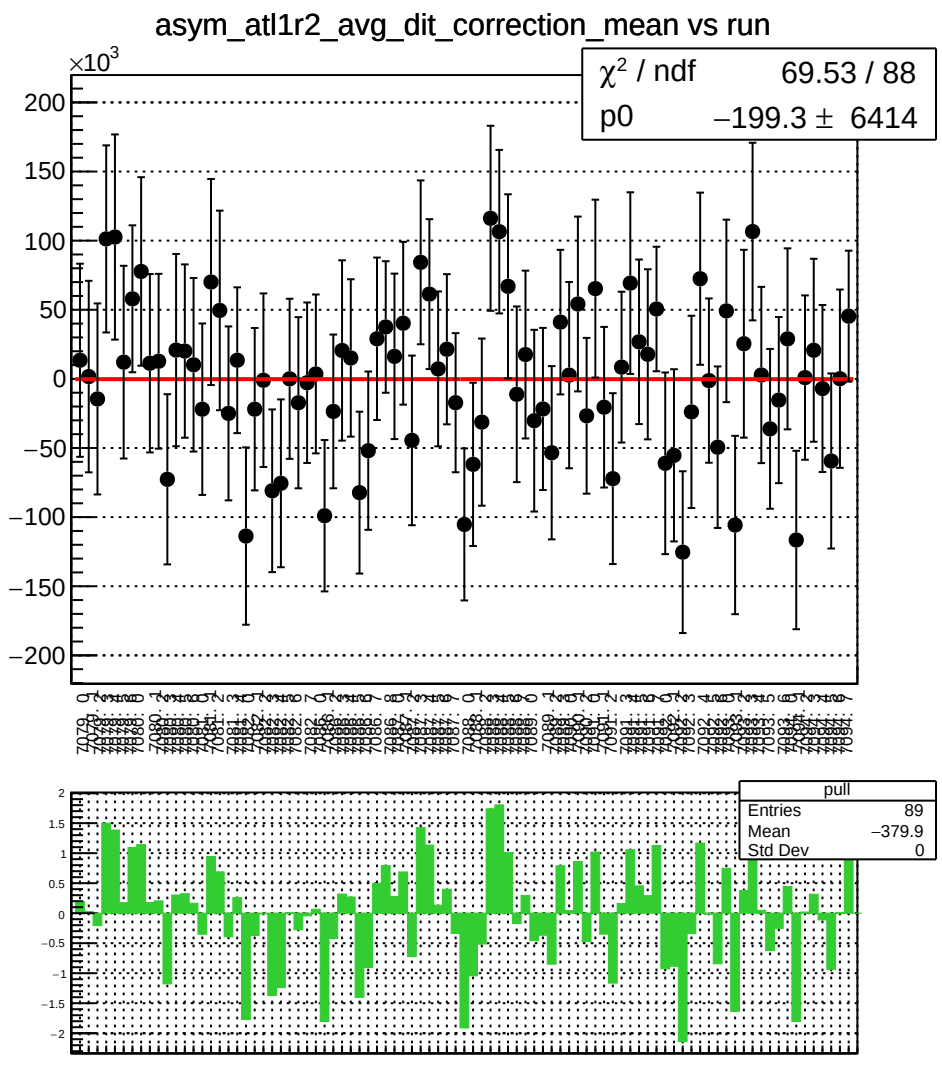

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9189 / 88
p0 5613 ± 4.335
7000
6500
6000
5500
5000

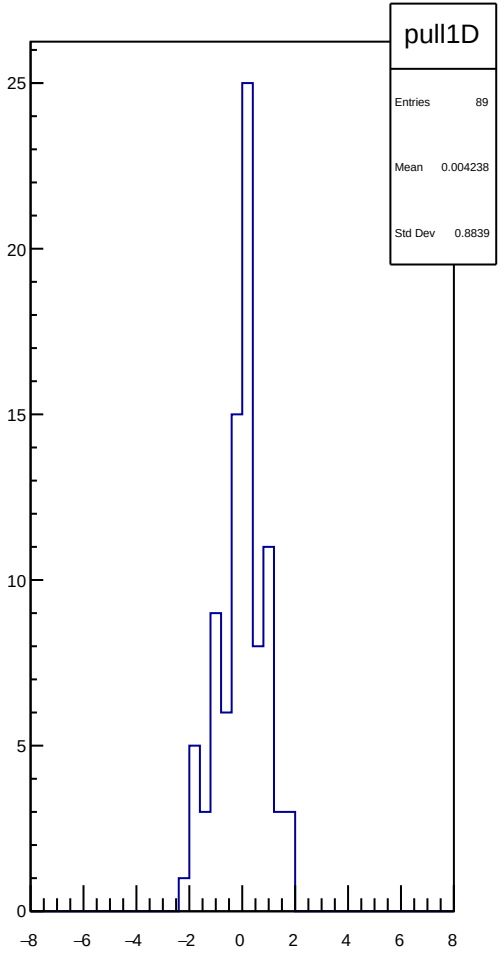

dit_asym_atl1r2_avg_mean vs run
χ^2 / ndf 91.52 / 88
p0 206.3 ± 1895
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −32.27
Std Dev 0
2
1
0
−1
−2

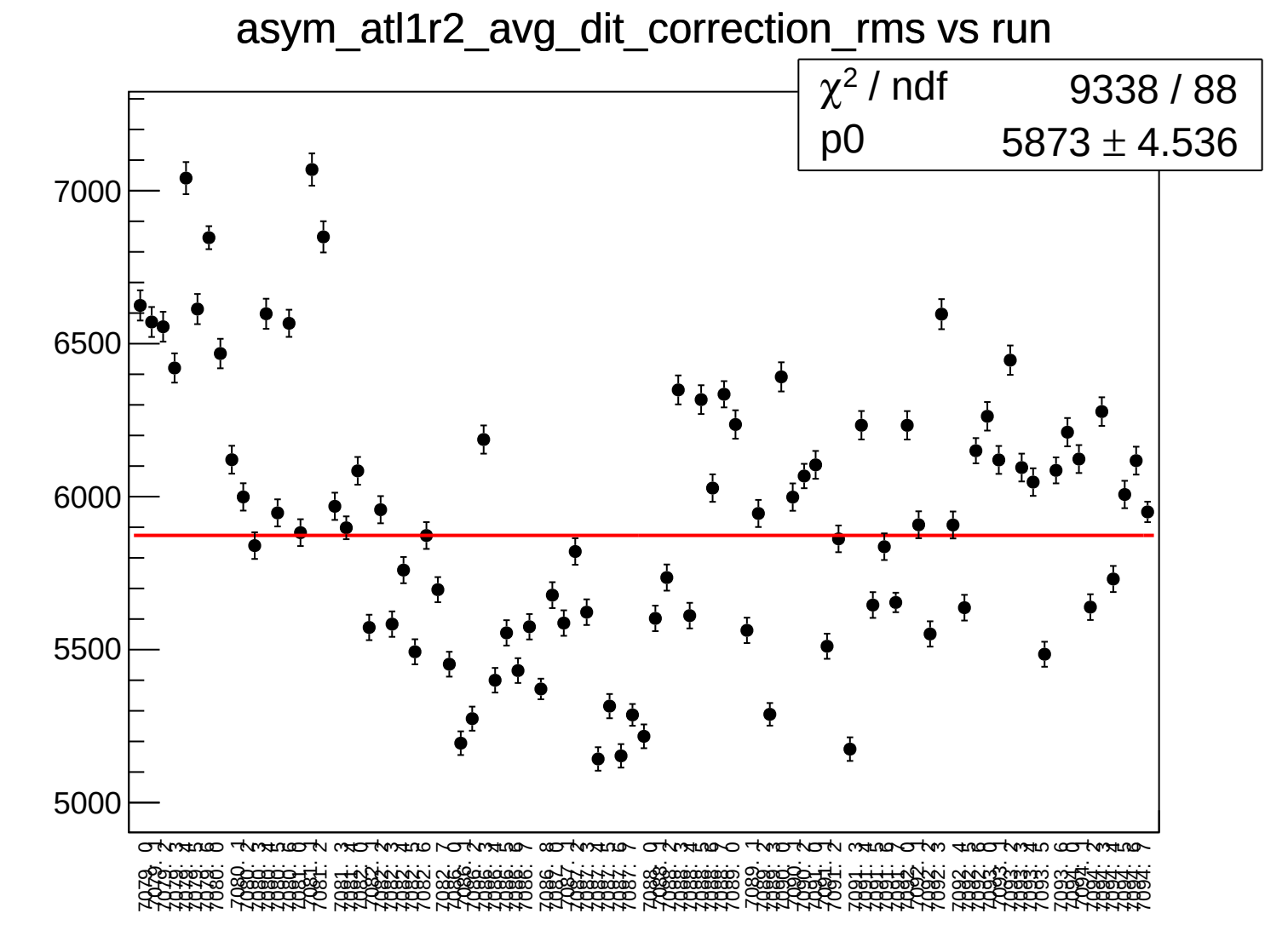

pull1D
Entries 89
Mean −0.01059
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

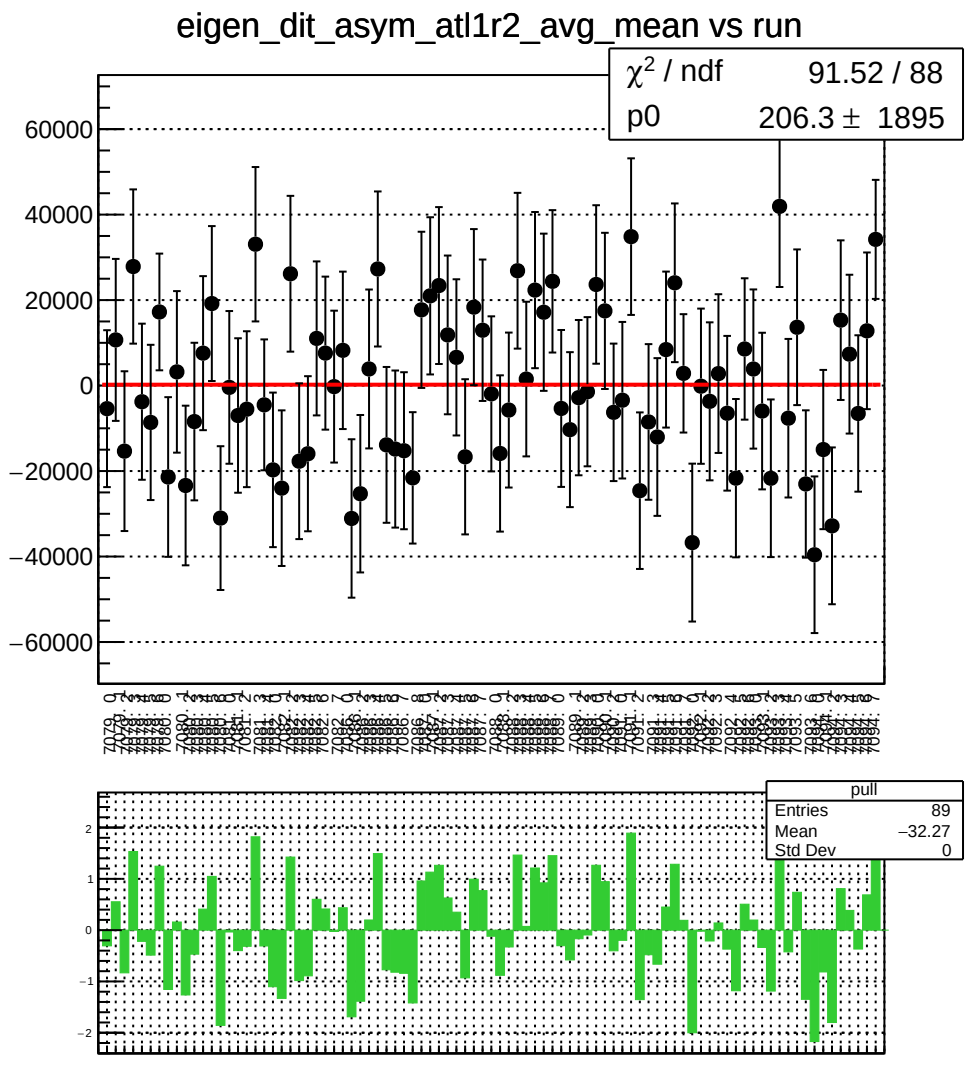
dit_asym_atl1r2_avg_rms vs run

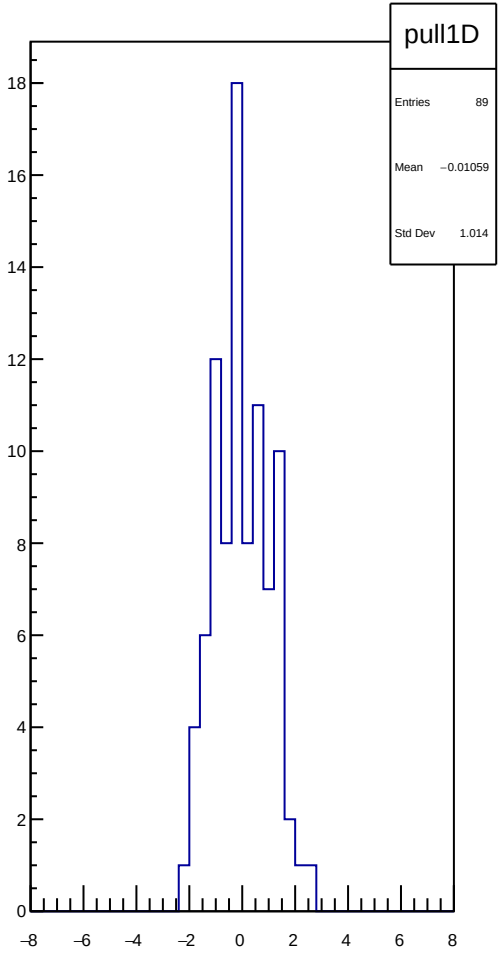


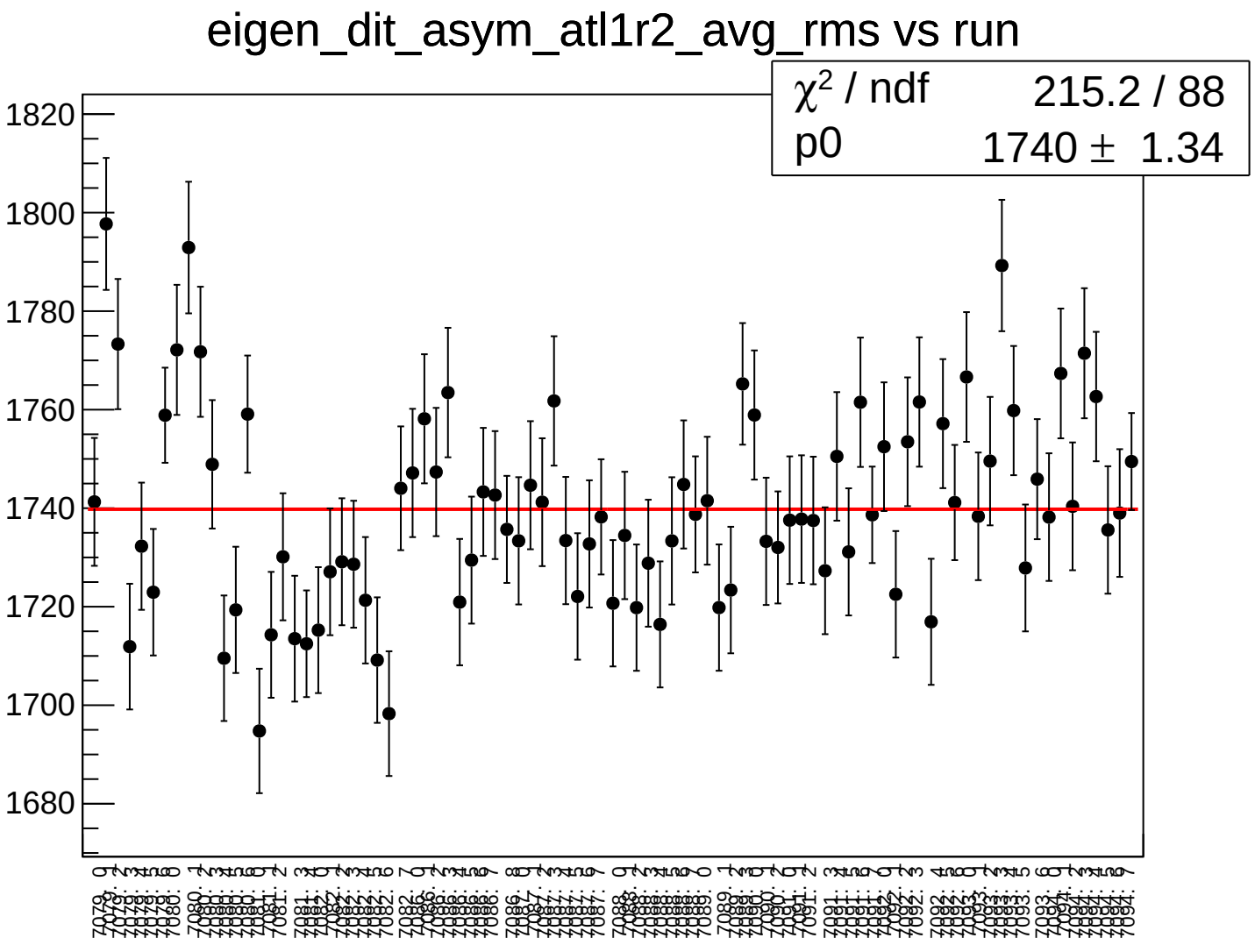

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 69.53 / 88
p0 −199.3 ± 6414
pull
Entries 89
Mean −379.9
Std Dev 0

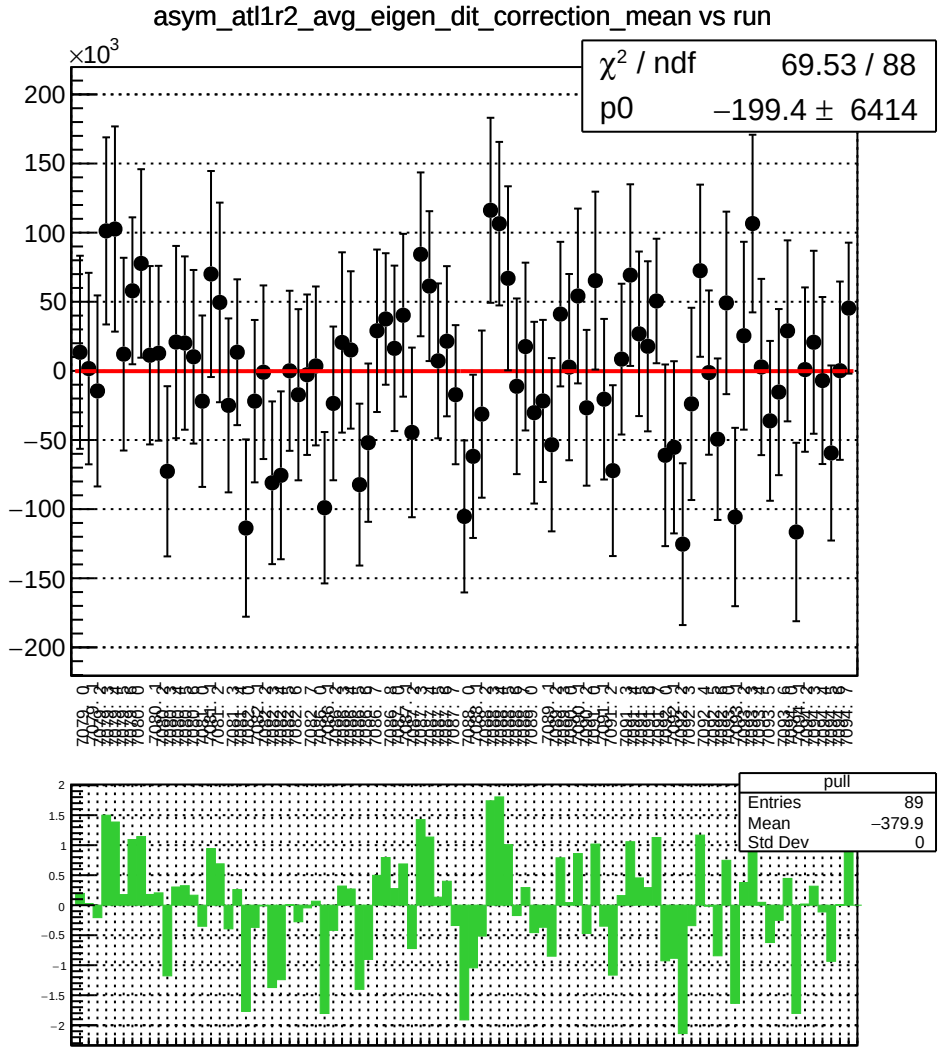

pull1D
Entries 89
Mean 0.004238
Std Dev 0.8839

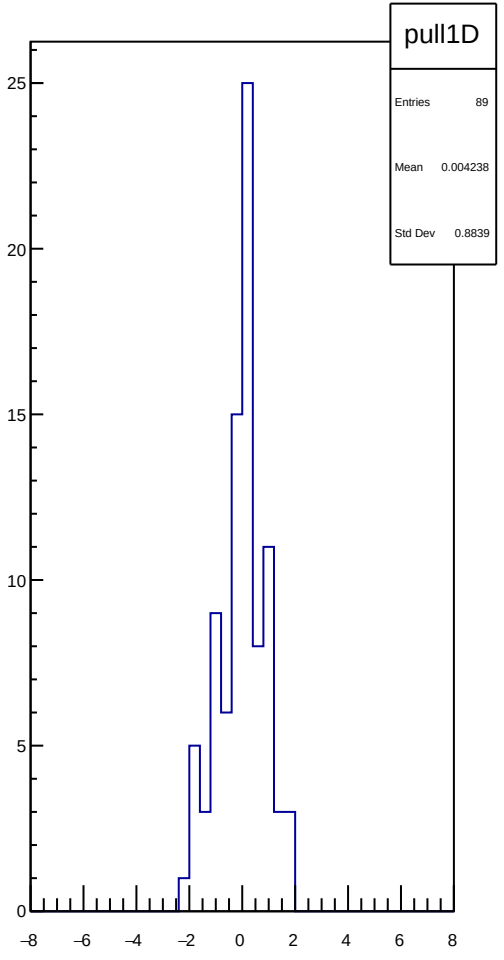

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 9338 / 88
p0 5873 ± 4.536
7000
6500
6000
5500
5000

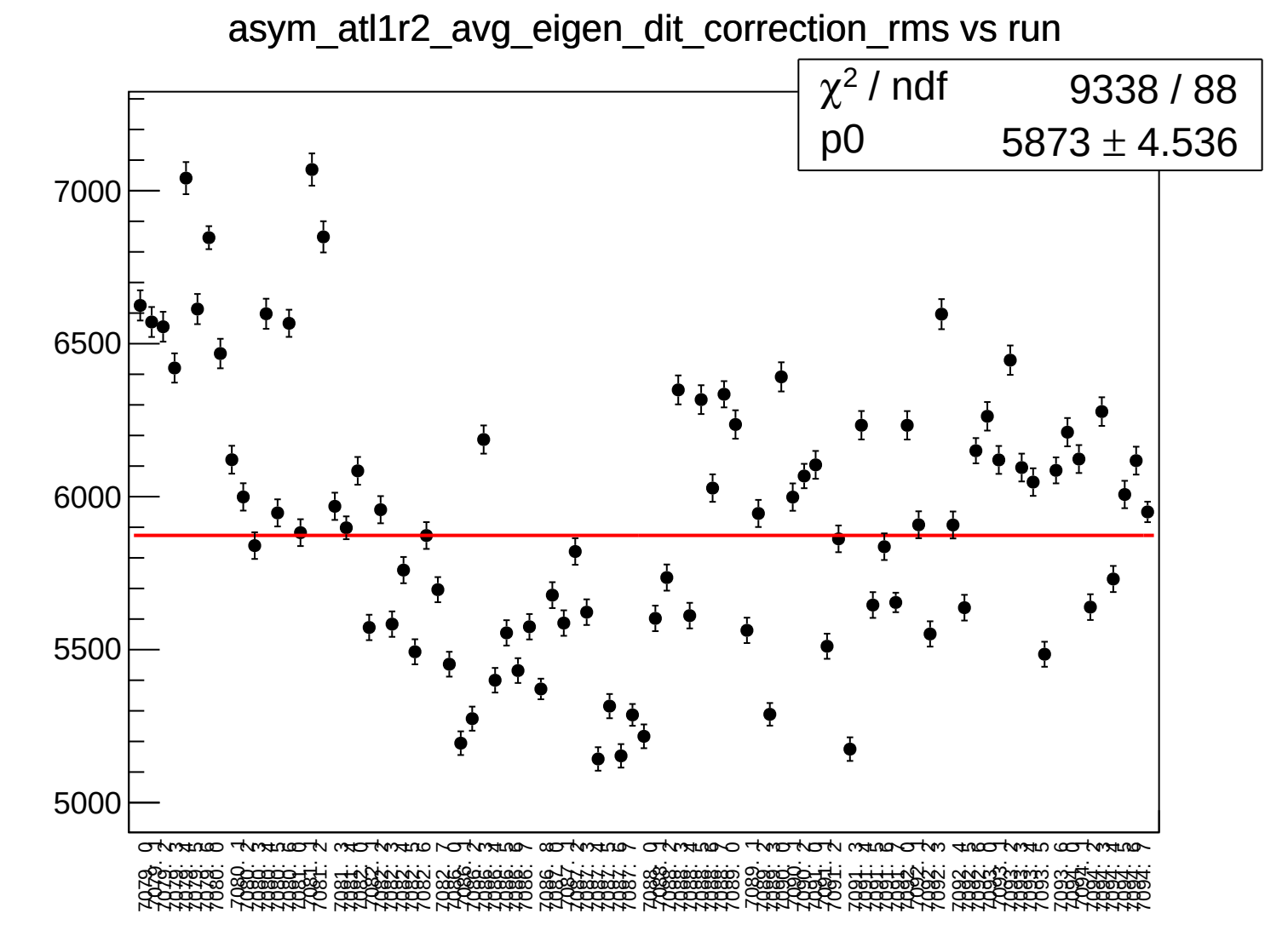

eigen_dit_asym_atl1r2_avg_mean vs run
χ^2 / ndf 91.52 / 88
p0 206.3 ± 1895
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −32.27
Std Dev 0
2
1
0
−1
−2

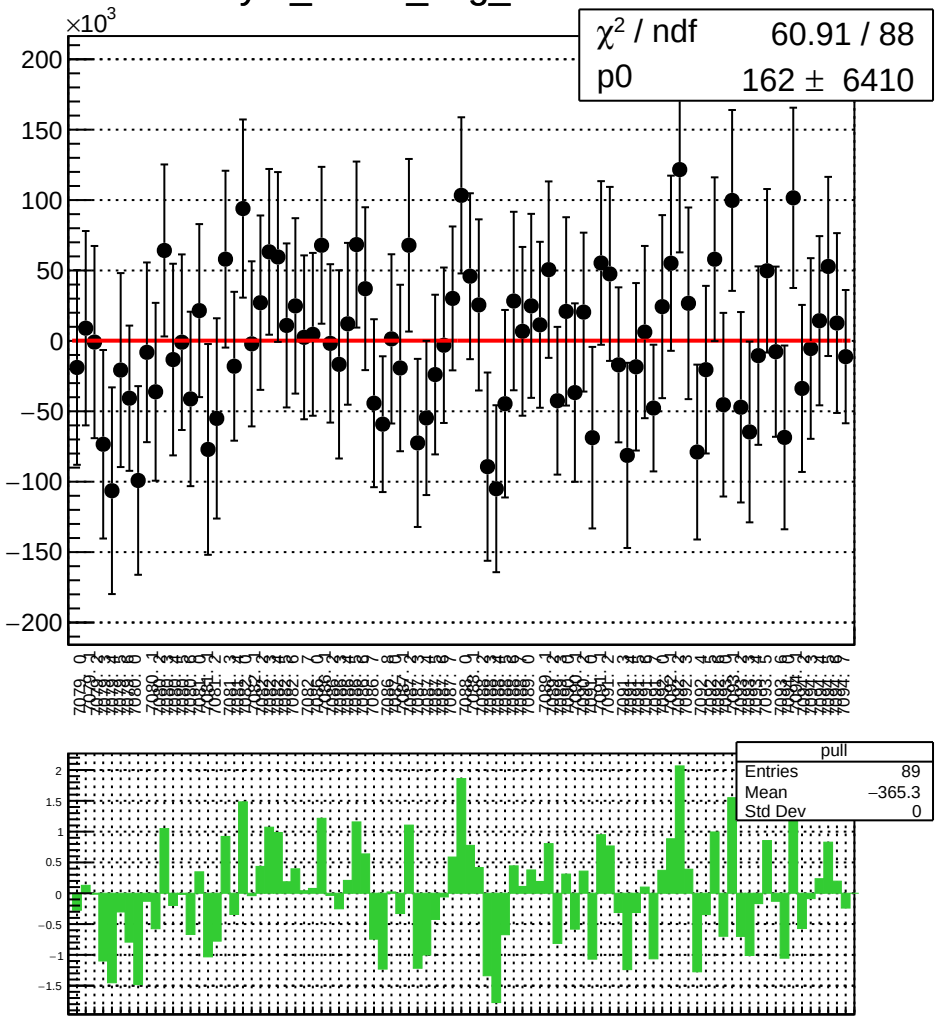

pull1D
Entries 89
Mean −0.01059
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

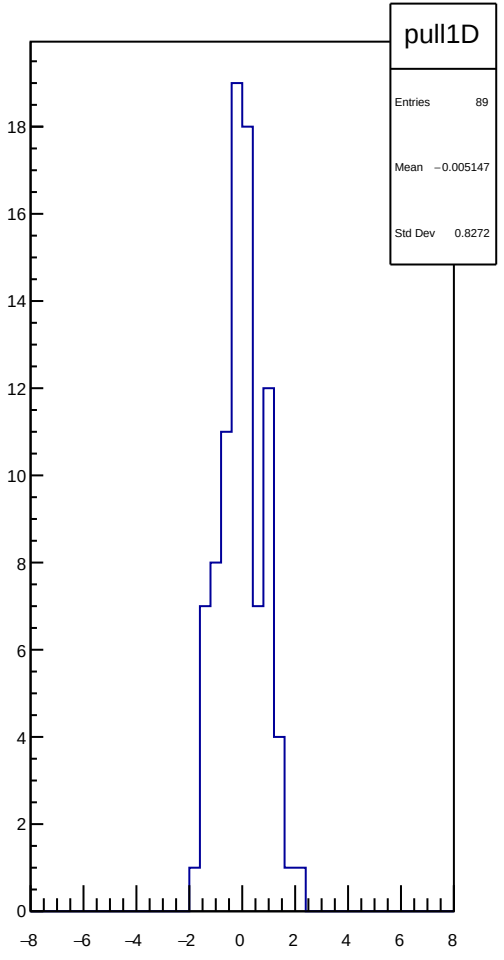

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 215.2 / 88
p0 1740 ± 1.34
1820
1800
1780
1760
1740
1720
1700
1680

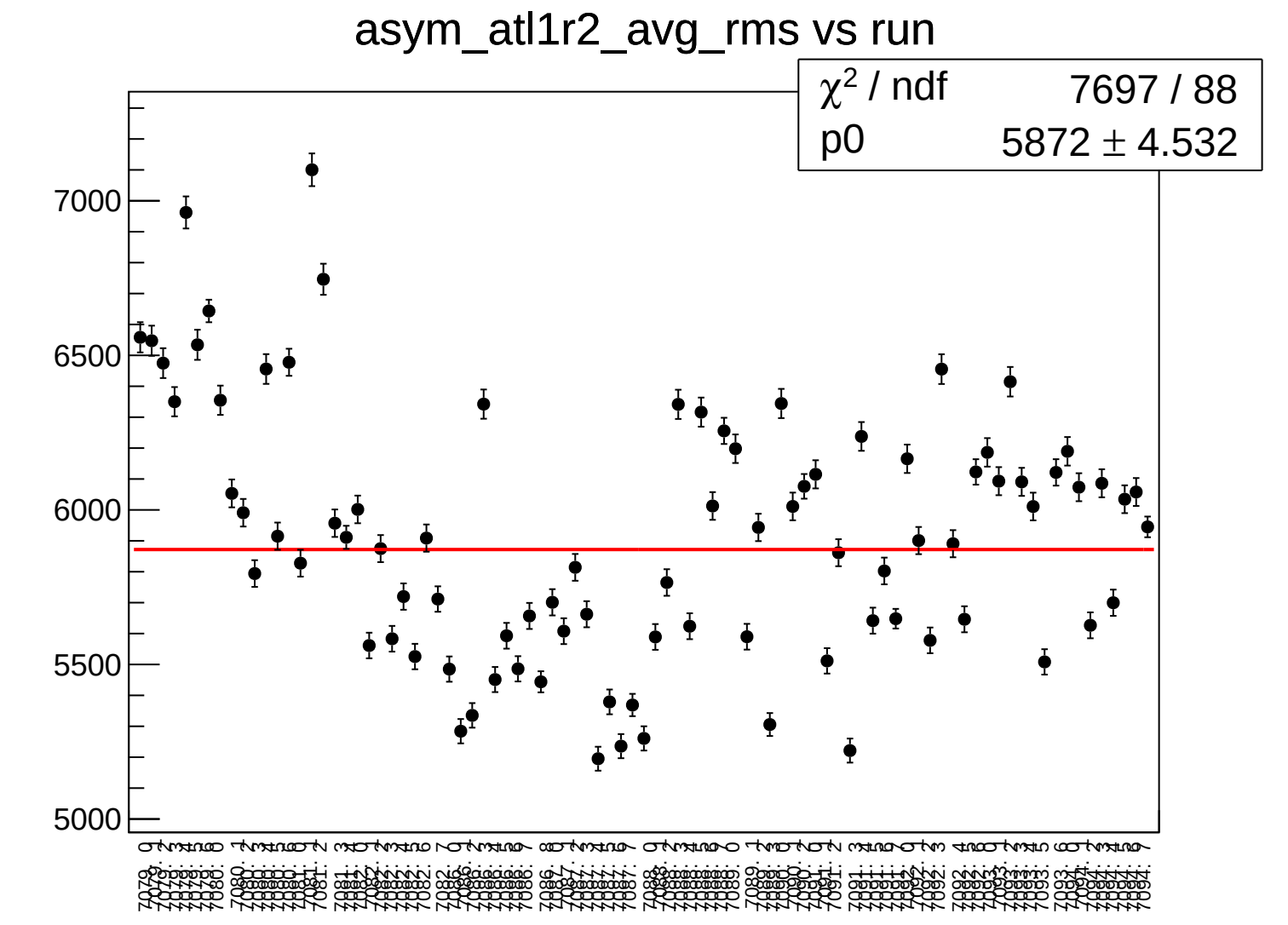

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.53 / 88
p0 −199.4 ± 6414
pull
Entries 89
Mean −379.9
Std Dev 0

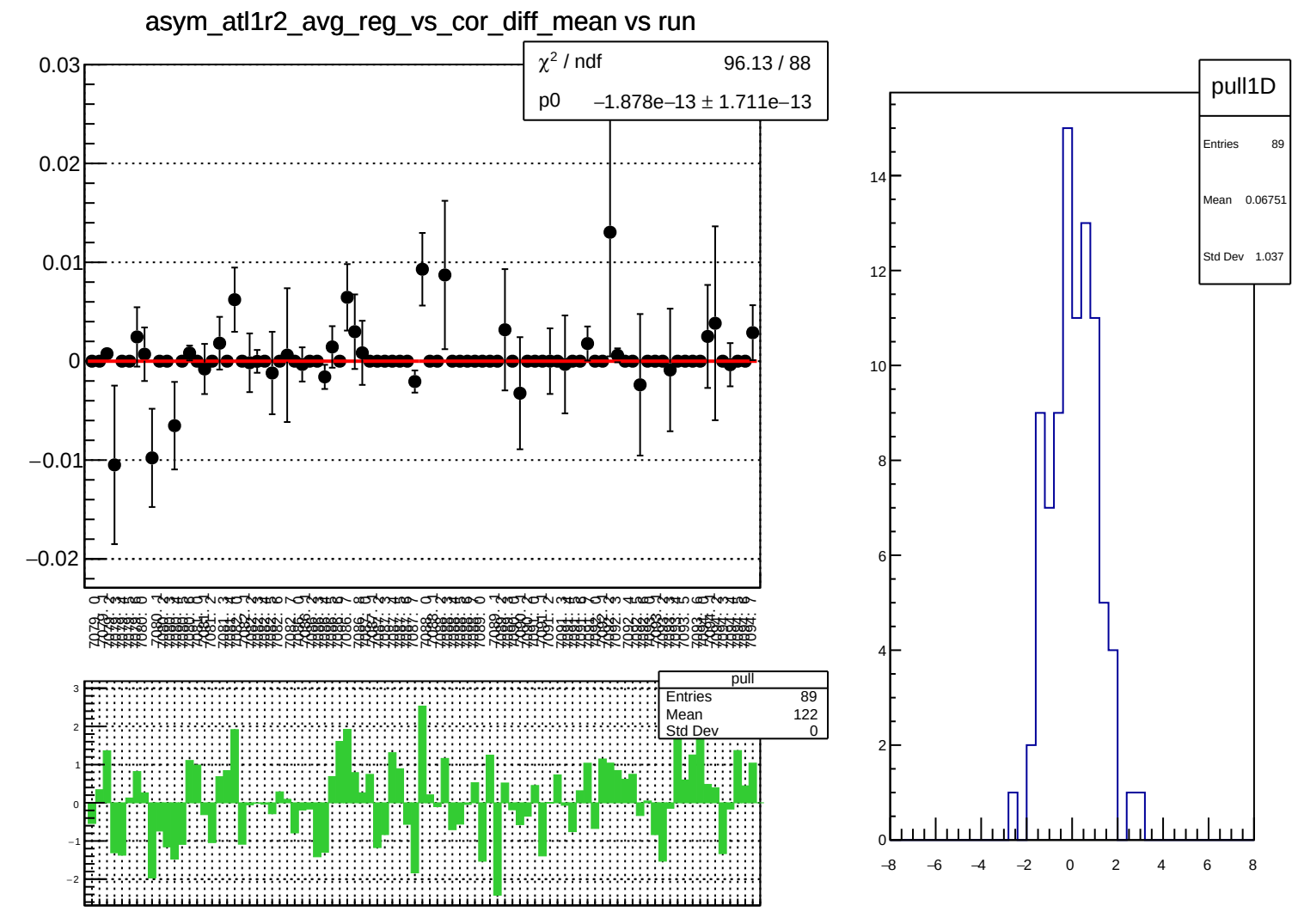

pull1D
Entries 89
Mean 0.004238
Std Dev 0.8839

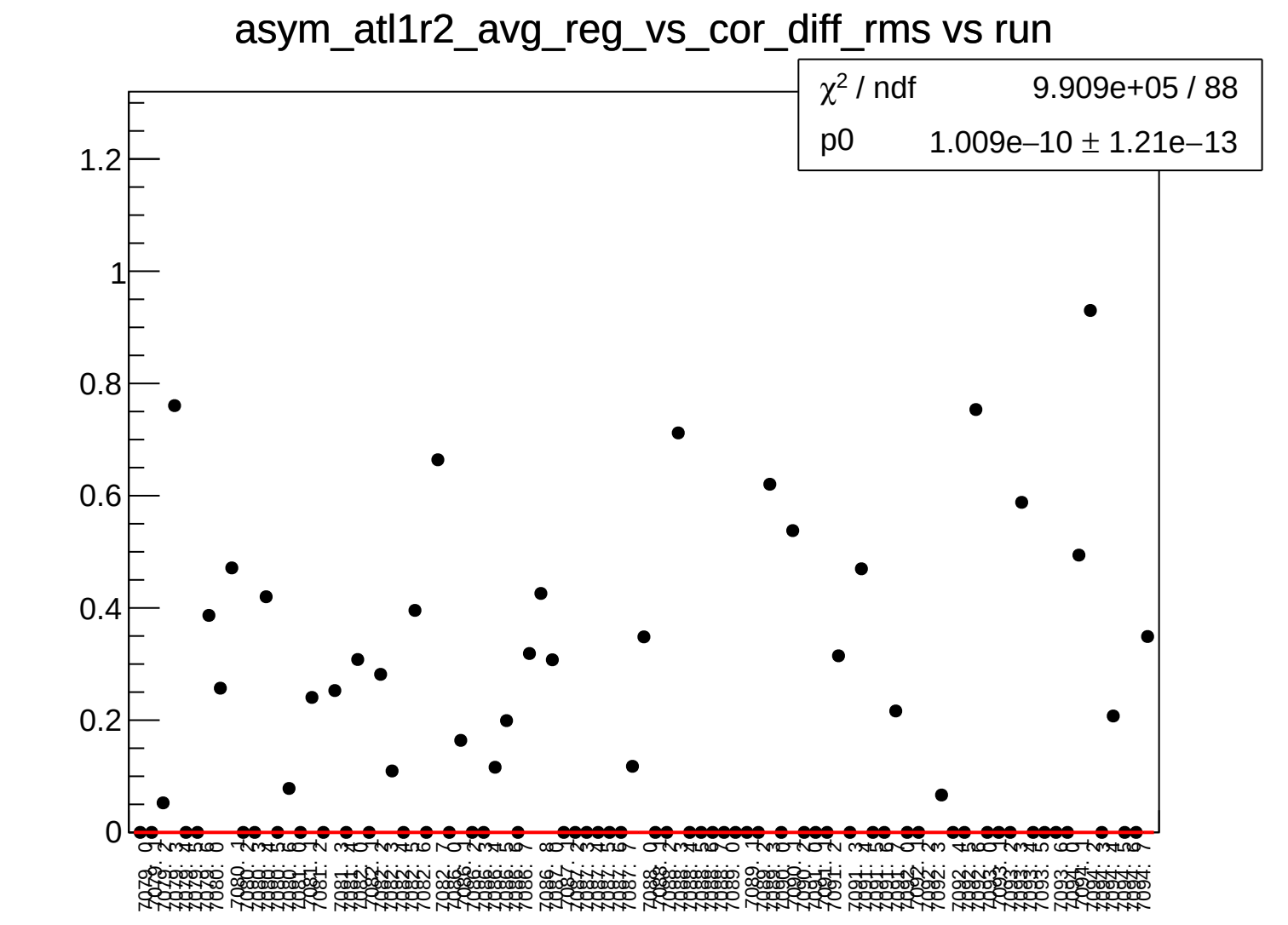

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 9338 / 88
p0 5873 ± 4.536
7000
6500
6000
5500
5000

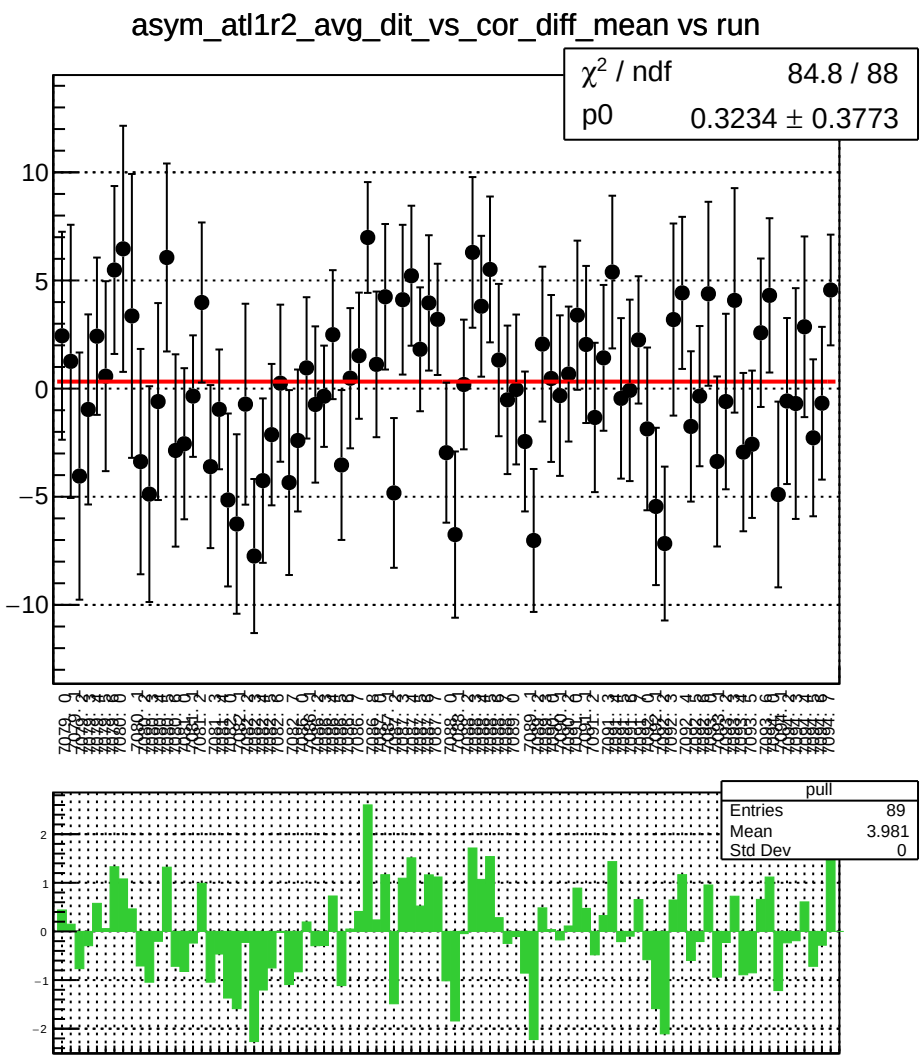

asym_atl1r2_avg_mean vs run
χ² / ndf 60.91 / 88
p0 162 ± 6410
×10³
pull
Entries 89
Mean −365.3
Std Dev 0

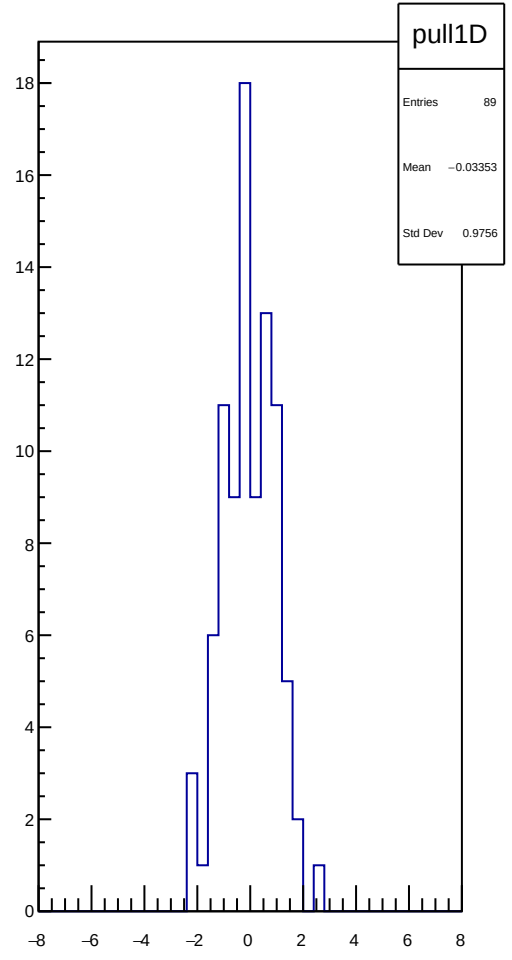

pull1D
Entries 89
Mean −0.005147
Std Dev 0.8272

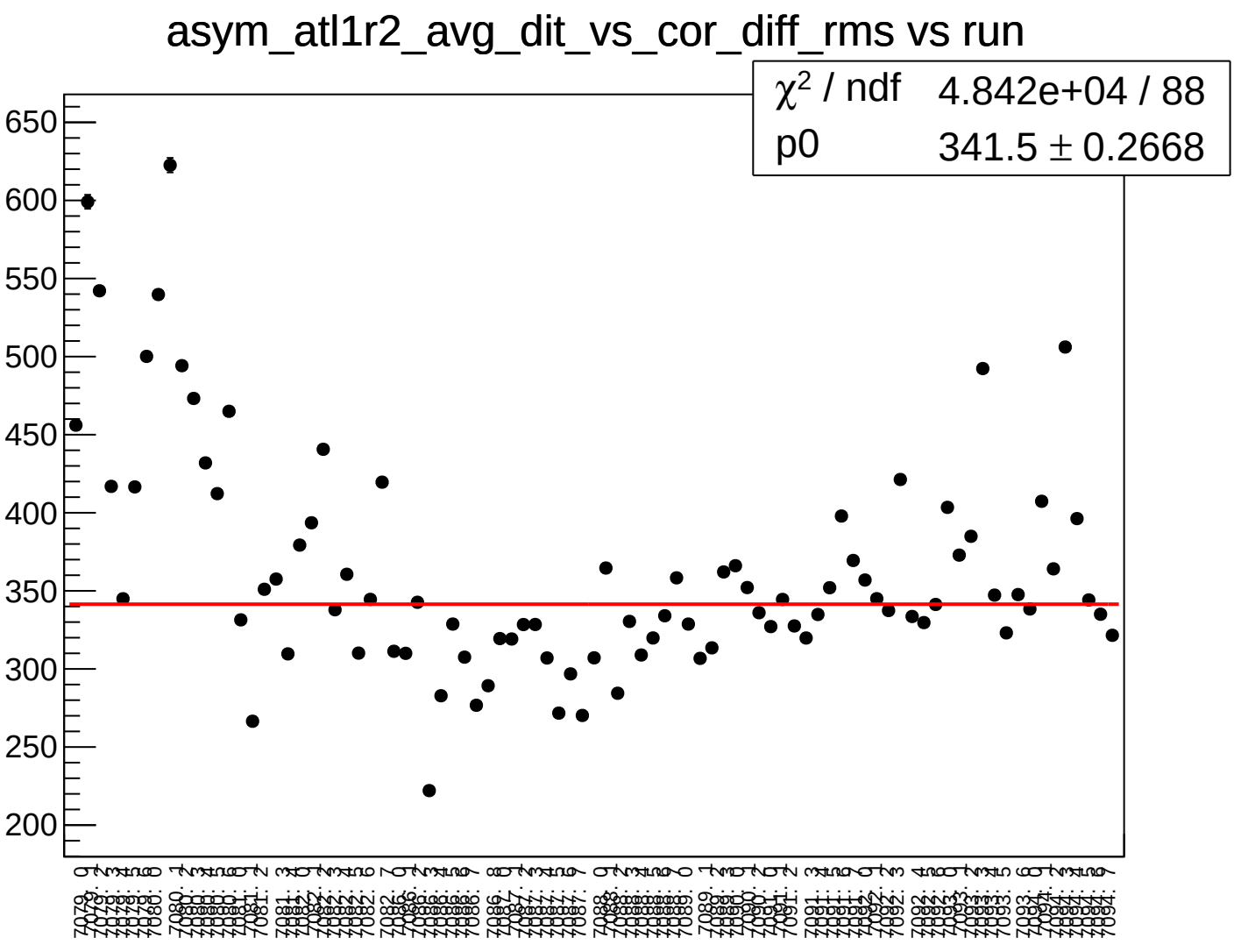

asym_atl1r2_avg_rms vs run
χ² / ndf 7697 / 88
p0 5872 ± 4.532
7000
6500
6000
5500
5000

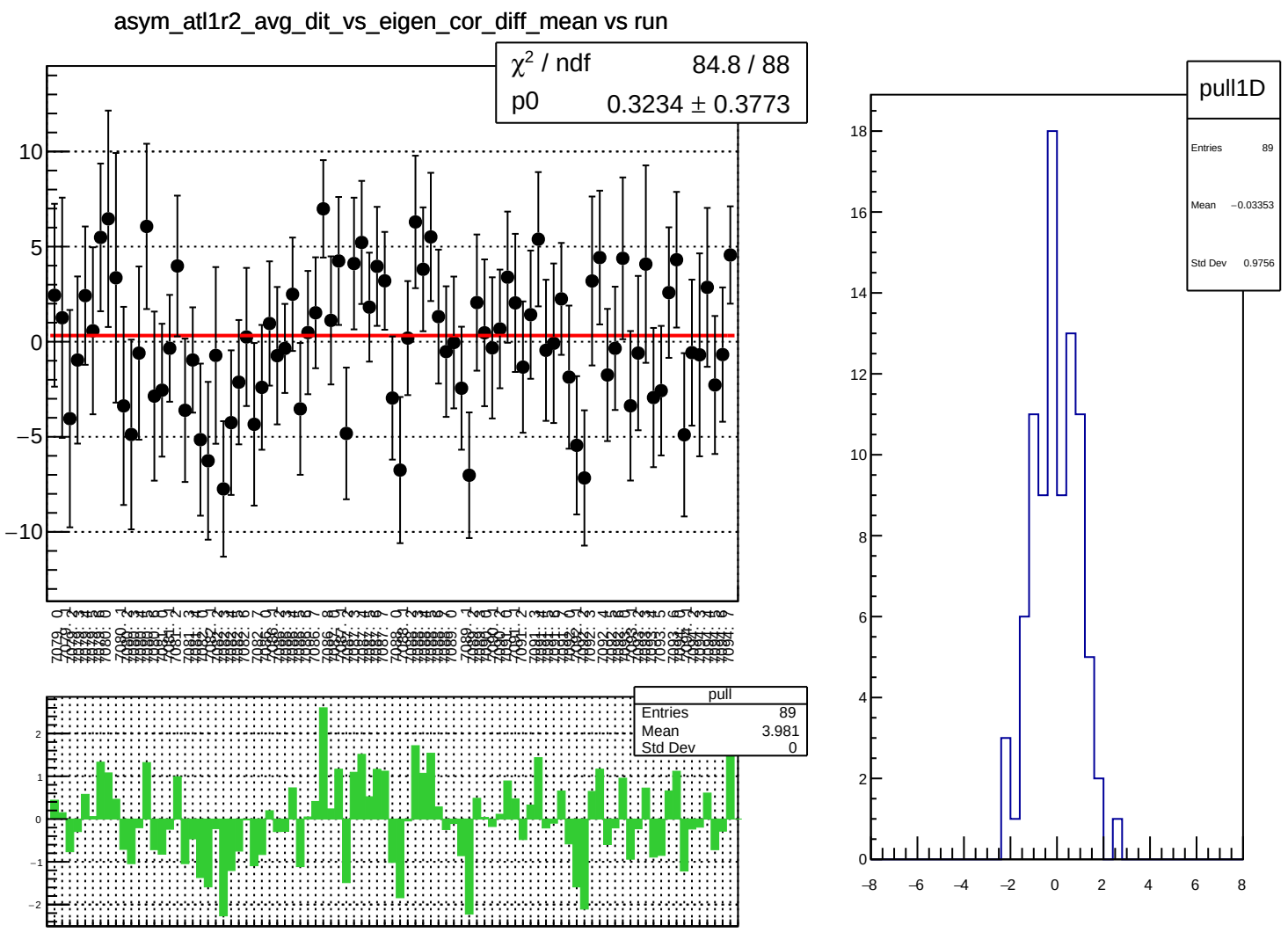

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.13 / 88
p0 −1.878e−13 ± 1.711e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 122
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.06751
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

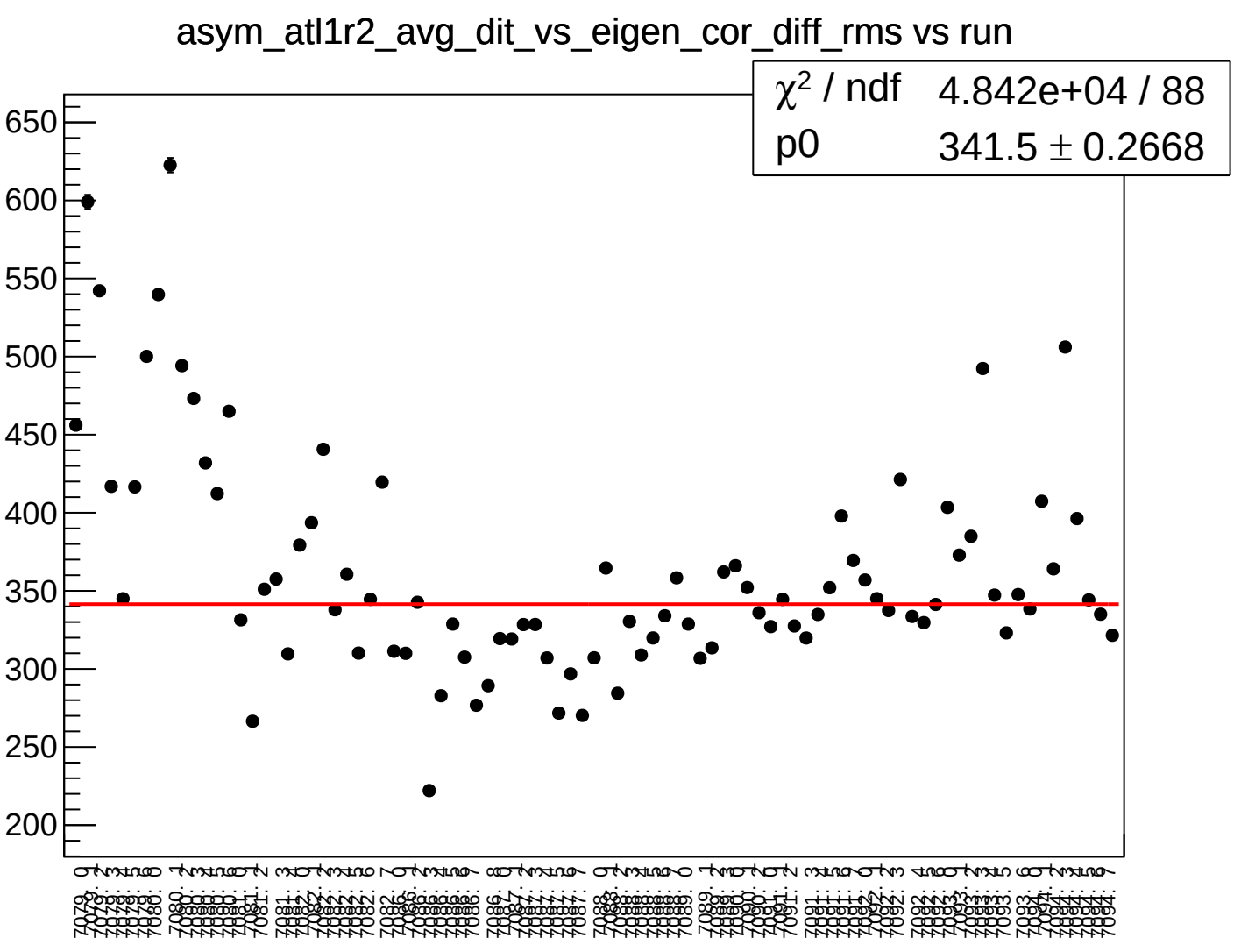

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.909e+05 / 88
p0 1.009e−10 ± 1.21e−13
1.2
1
0.8
0.6
0.4
0.2
0

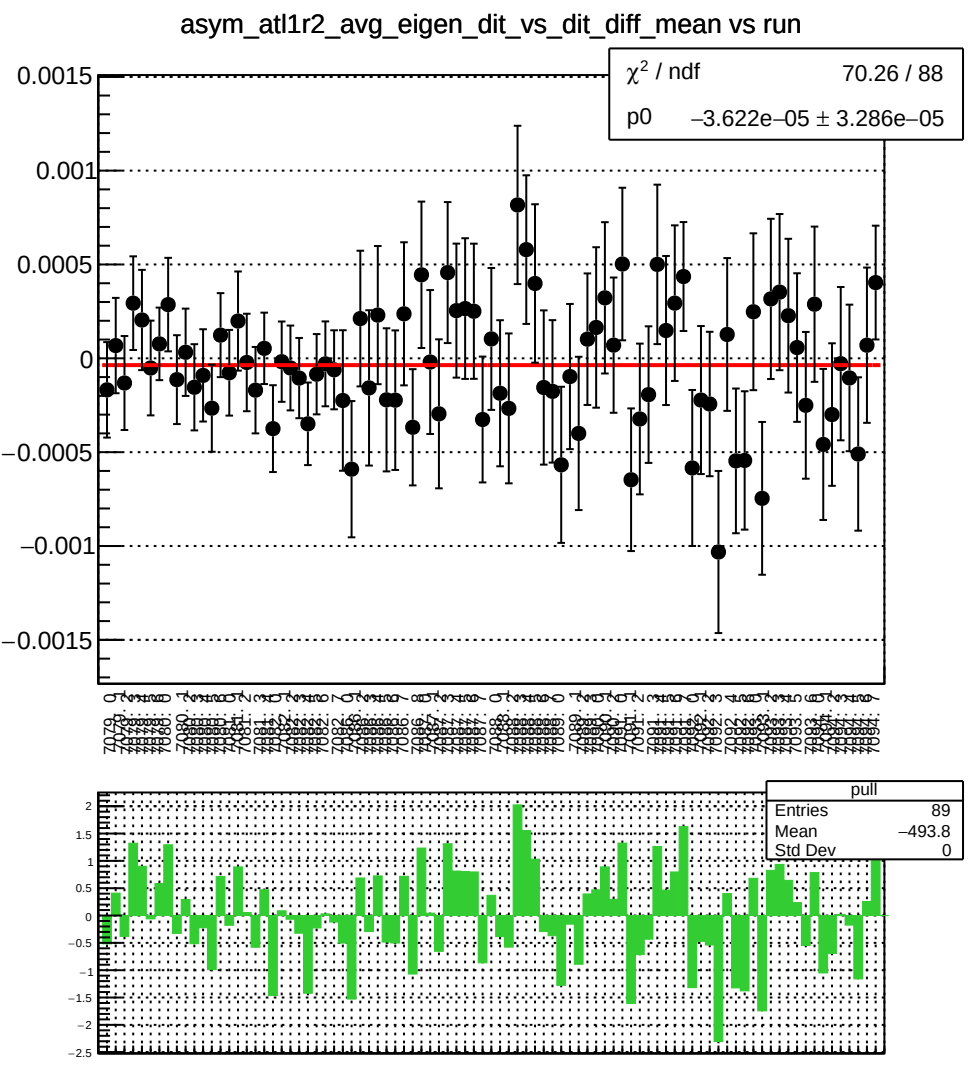

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.8 / 88
p0 0.3234 ± 0.3773
pull
Entries 89
Mean 3.981
Std Dev 0

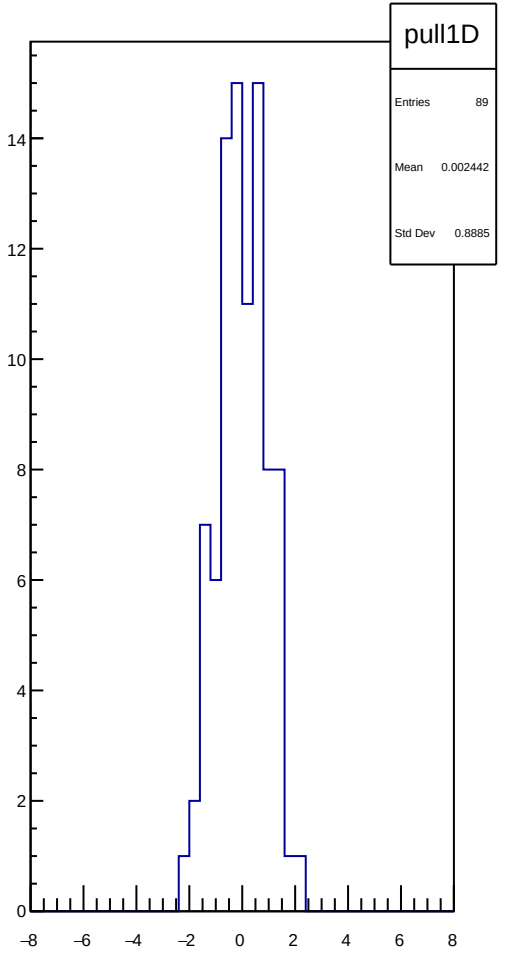

pull1D
Entries 89
Mean −0.03353
Std Dev 0.9756

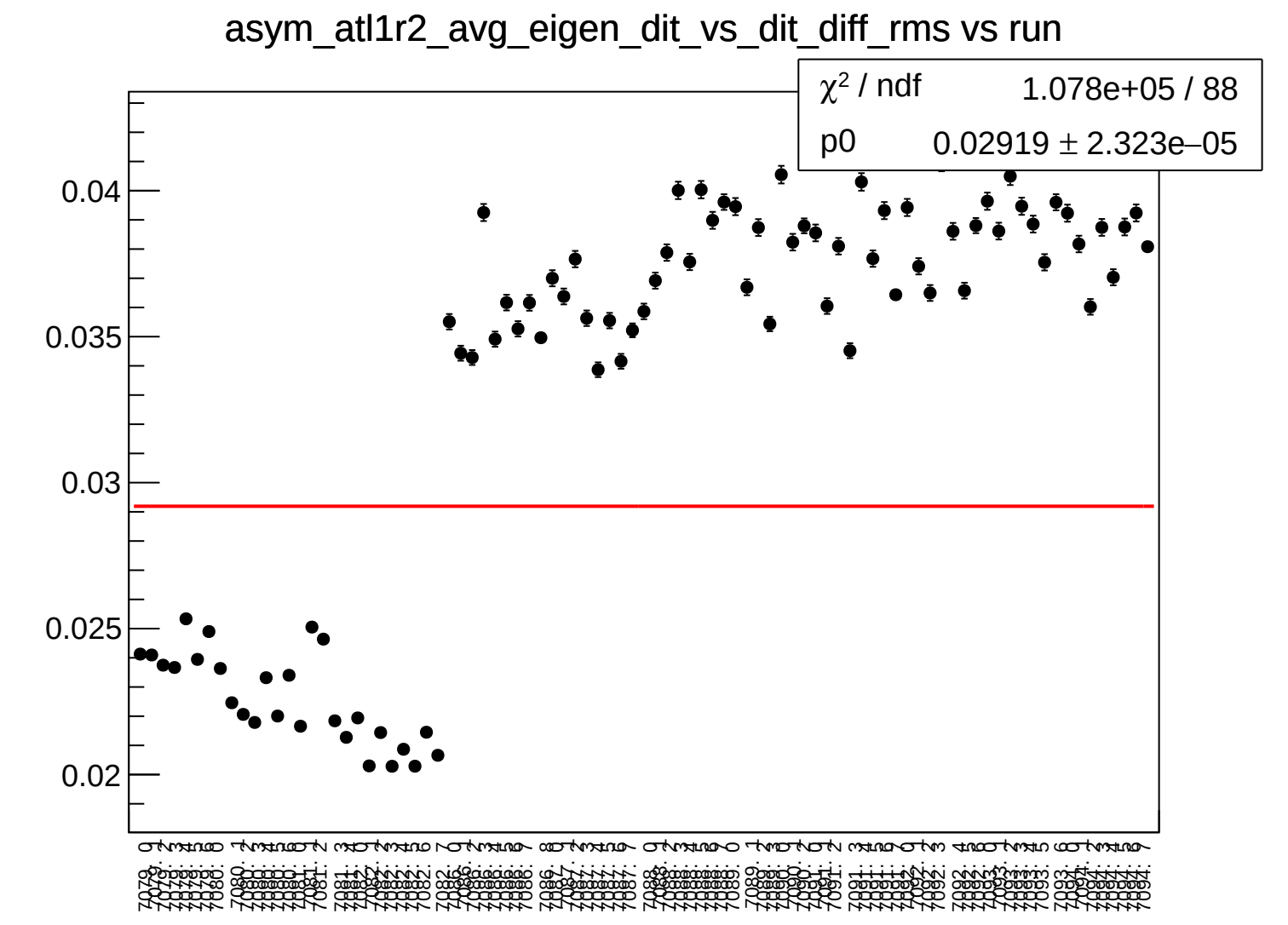

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.842e+04 / 88
p0 341.5 ± 0.2668
650
600
550
500
450
400
350
300
250
200

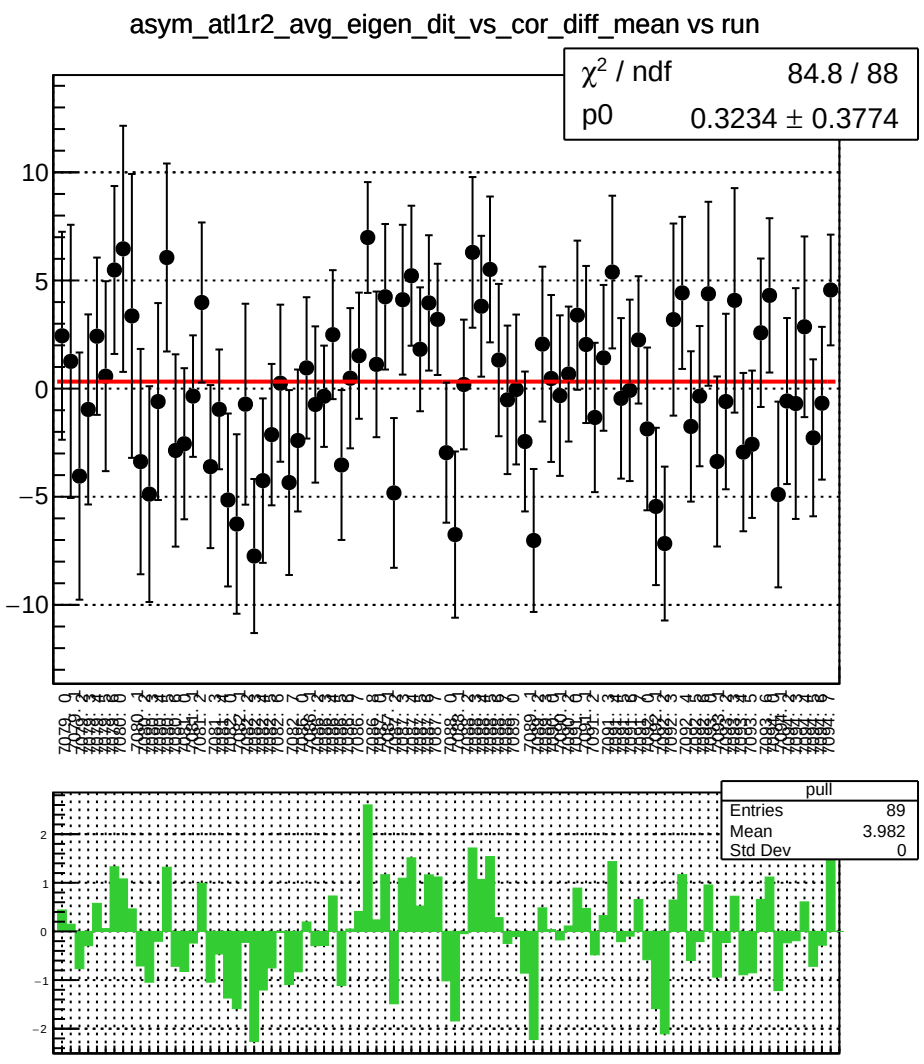

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.8 / 88
p0 0.3234 ± 0.3773
pull
Entries 89
Mean 3.981
Std Dev 0
pull1D
Entries 89
Mean −0.03353
Std Dev 0.9756

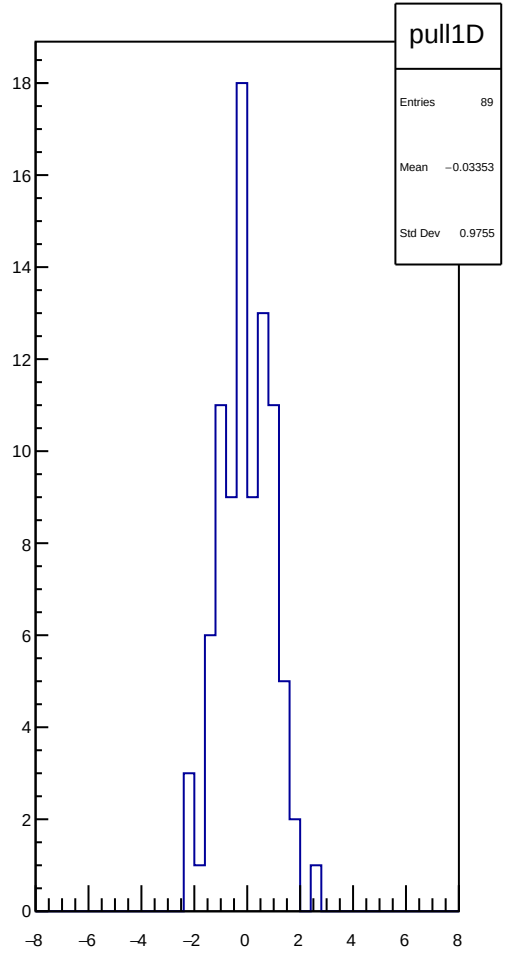

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.842e+04 / 88
p0 341.5 ± 0.2668
650
600
550
500
450
400
350
300
250
200

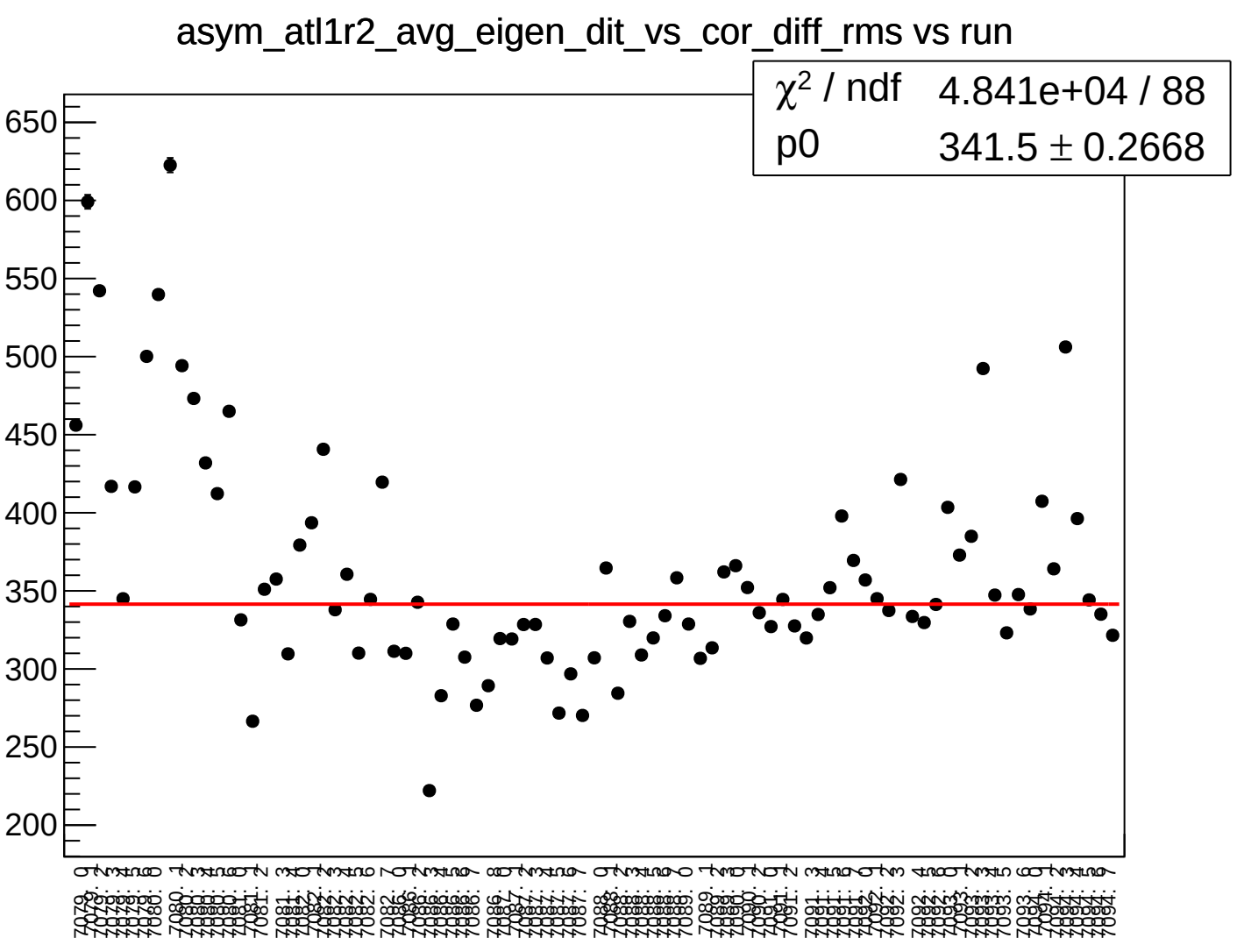

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.26 / 88
p0 −3.622e−05 ± 3.286e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean −493.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

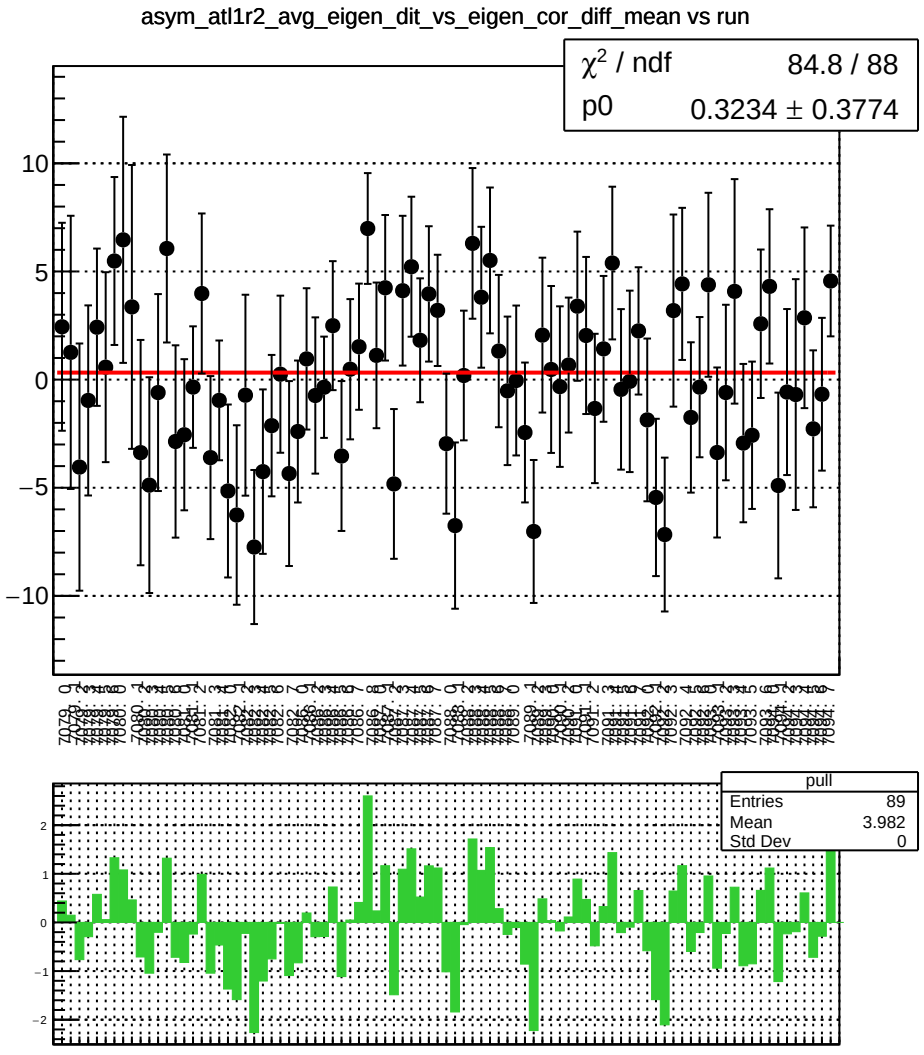

pull1D
Entries 89
Mean 0.002442
Std Dev 0.8885
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

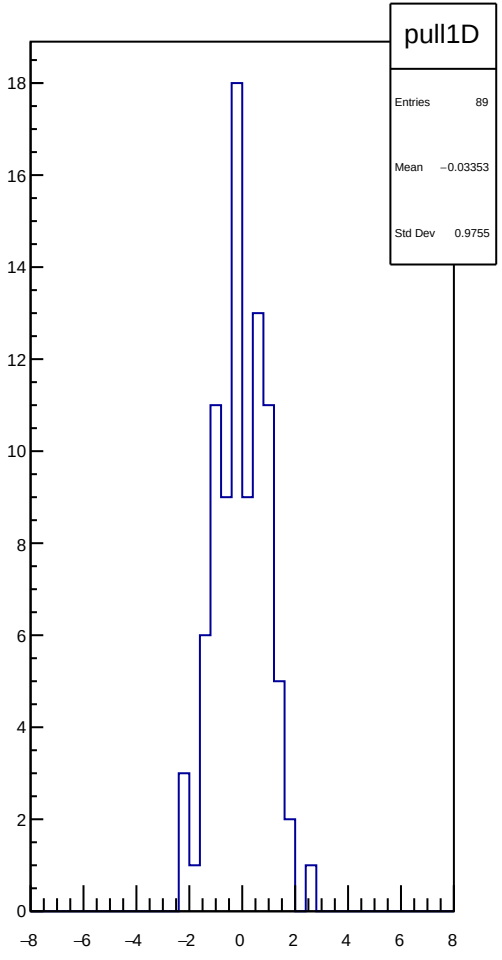

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.078e+05 / 88
p0 0.02919 ± 2.323e−05
0.04
0.035
0.03
0.025
0.02

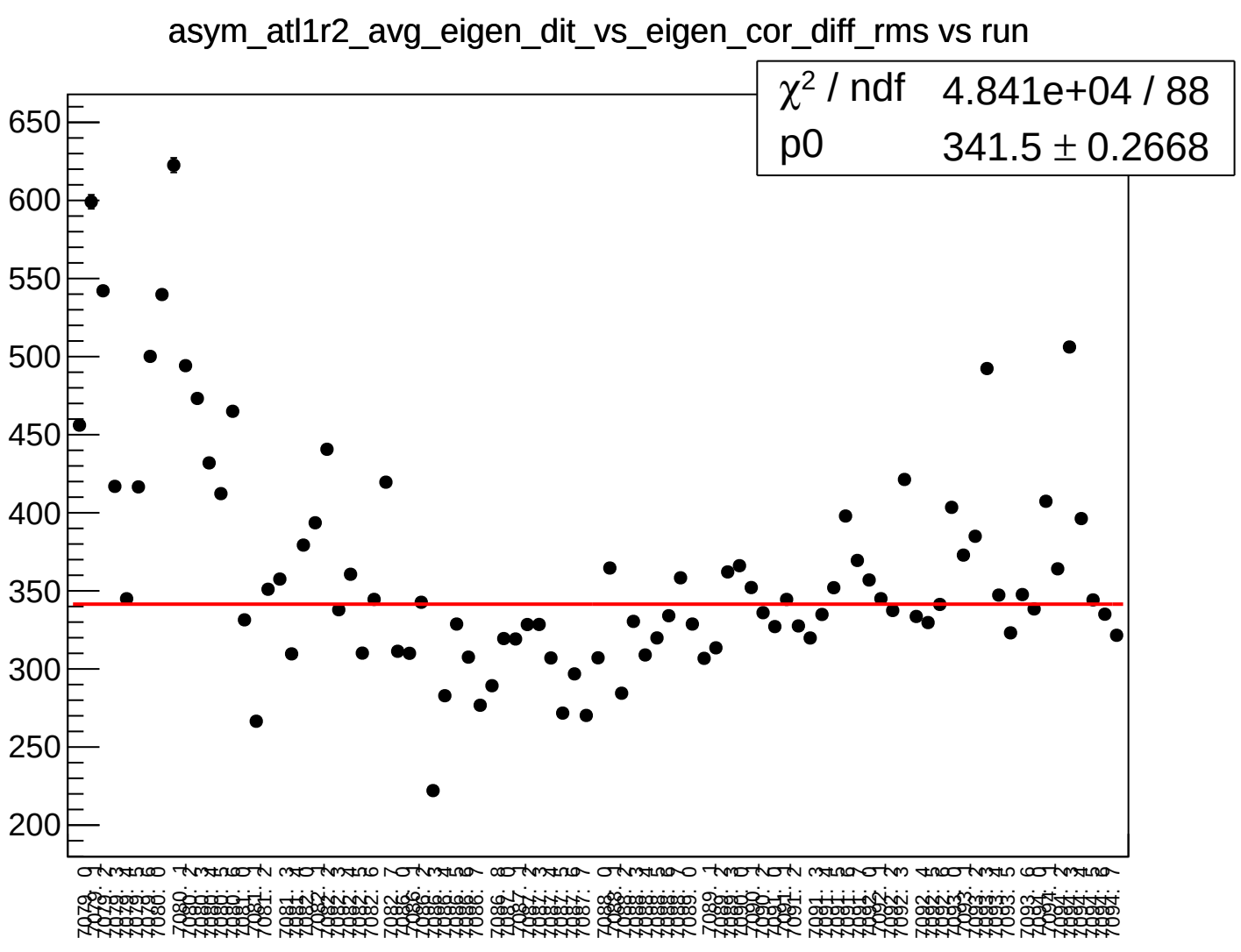

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.8 / 88
p0 0.3234 ± 0.3774
10
5
0
−5
−10
pull
Entries 89
Mean 3.982
Std Dev 0
2
1
0
−1
−2

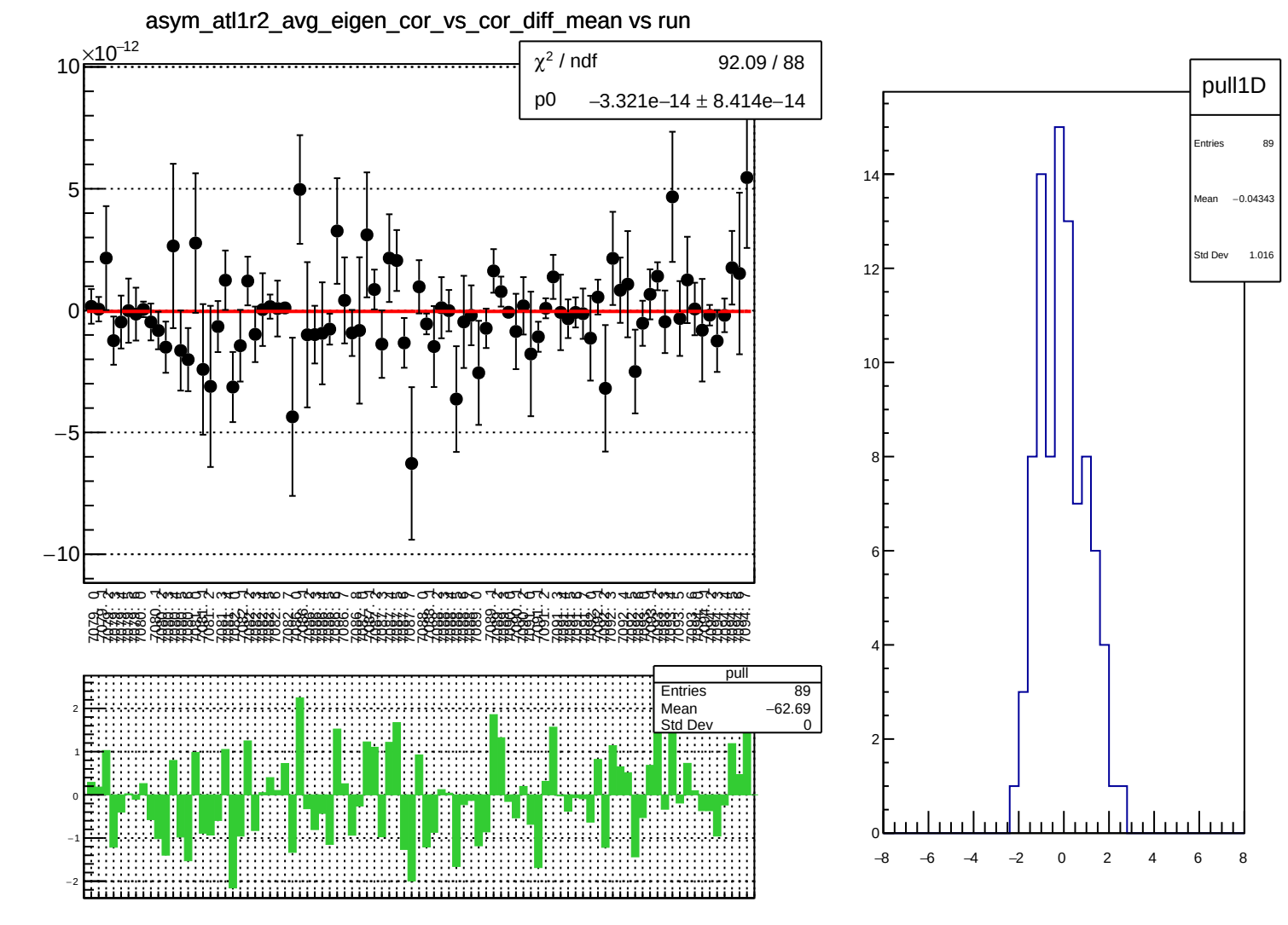

pull1D
Entries 89
Mean −0.03353
Std Dev 0.9755
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

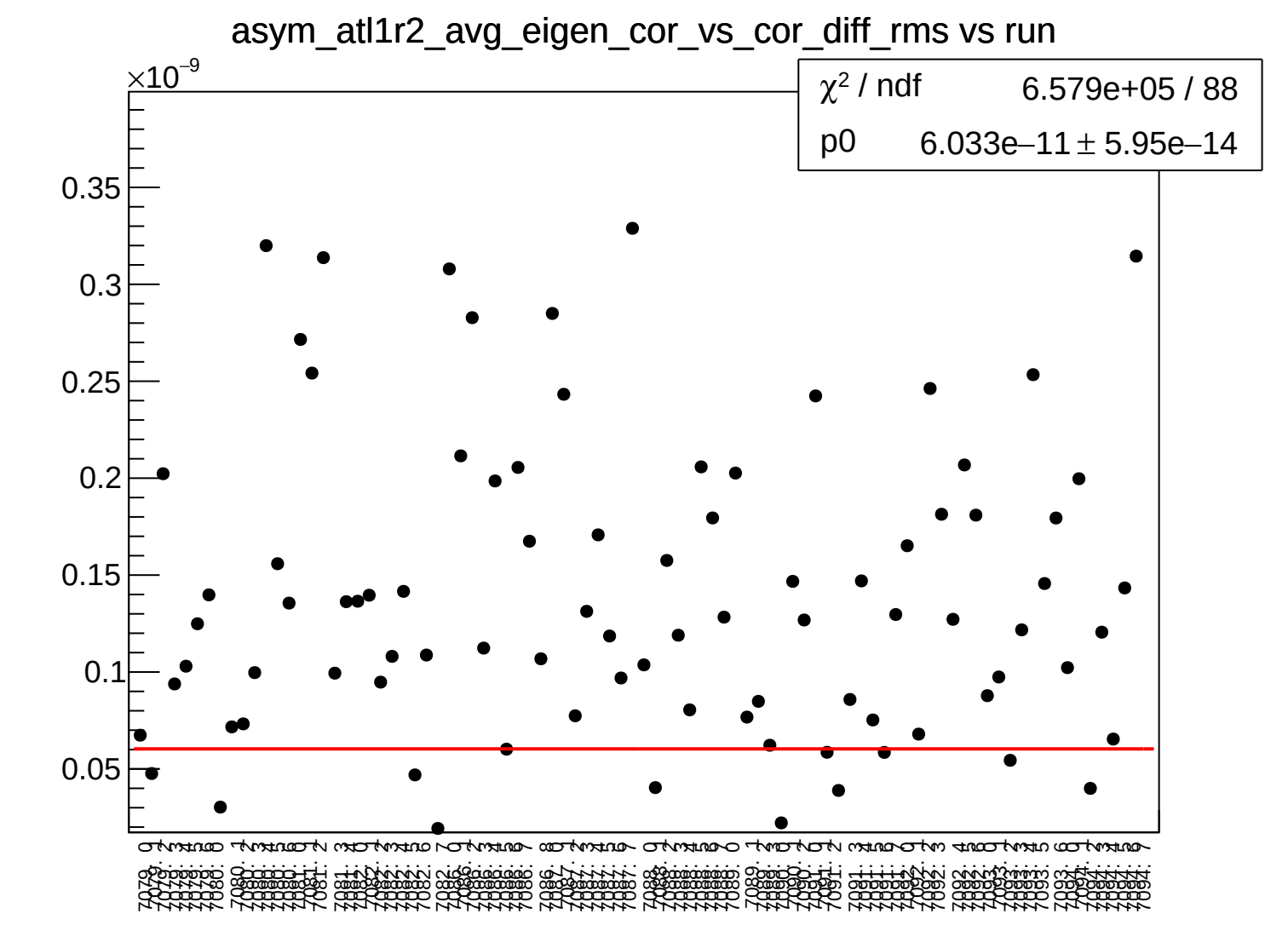

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.841e+04 / 88
p0 341.5 ± 0.2668
650
600
550
500
450
400
350
300
250
200

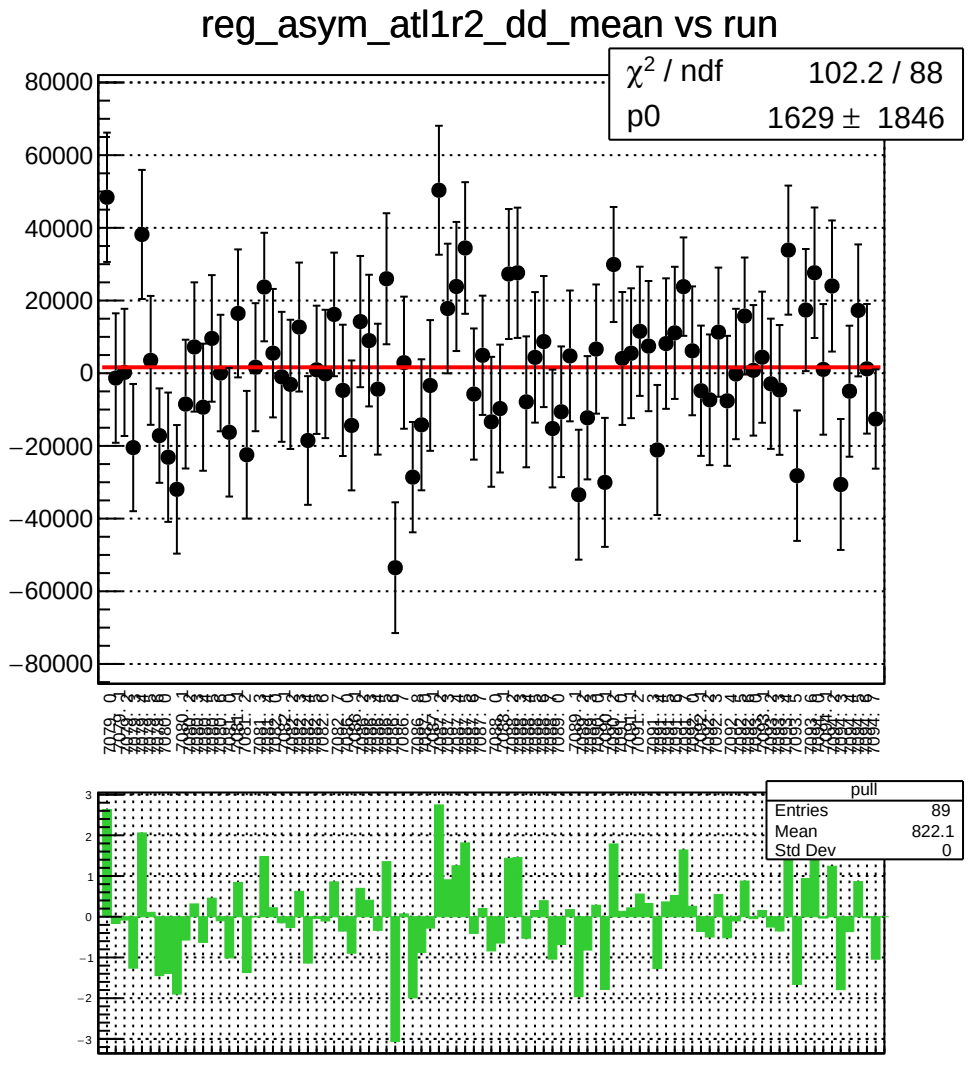

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.8 / 88
p0 0.3234 ± 0.3774
pull
Entries 89
Mean 3.982
Std Dev 0

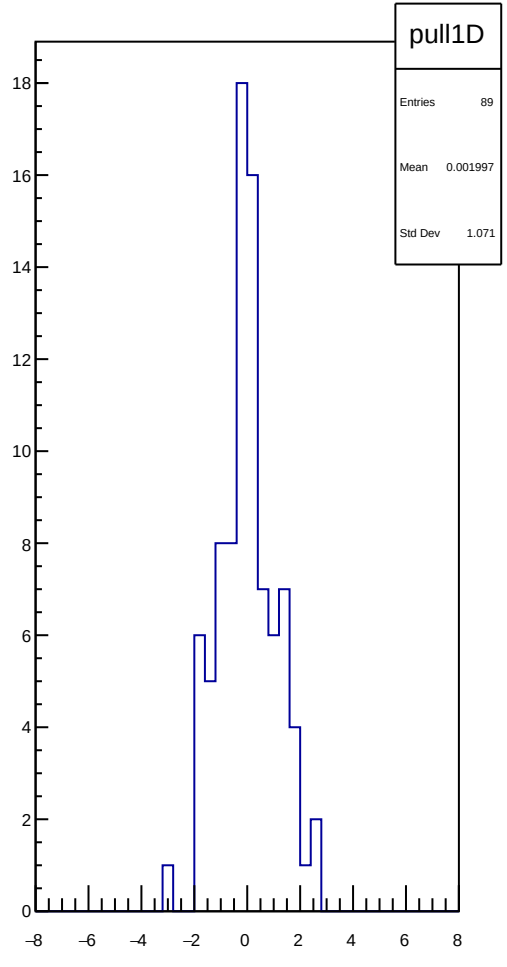

pull1D
Entries 89
Mean −0.03353
Std Dev 0.9755

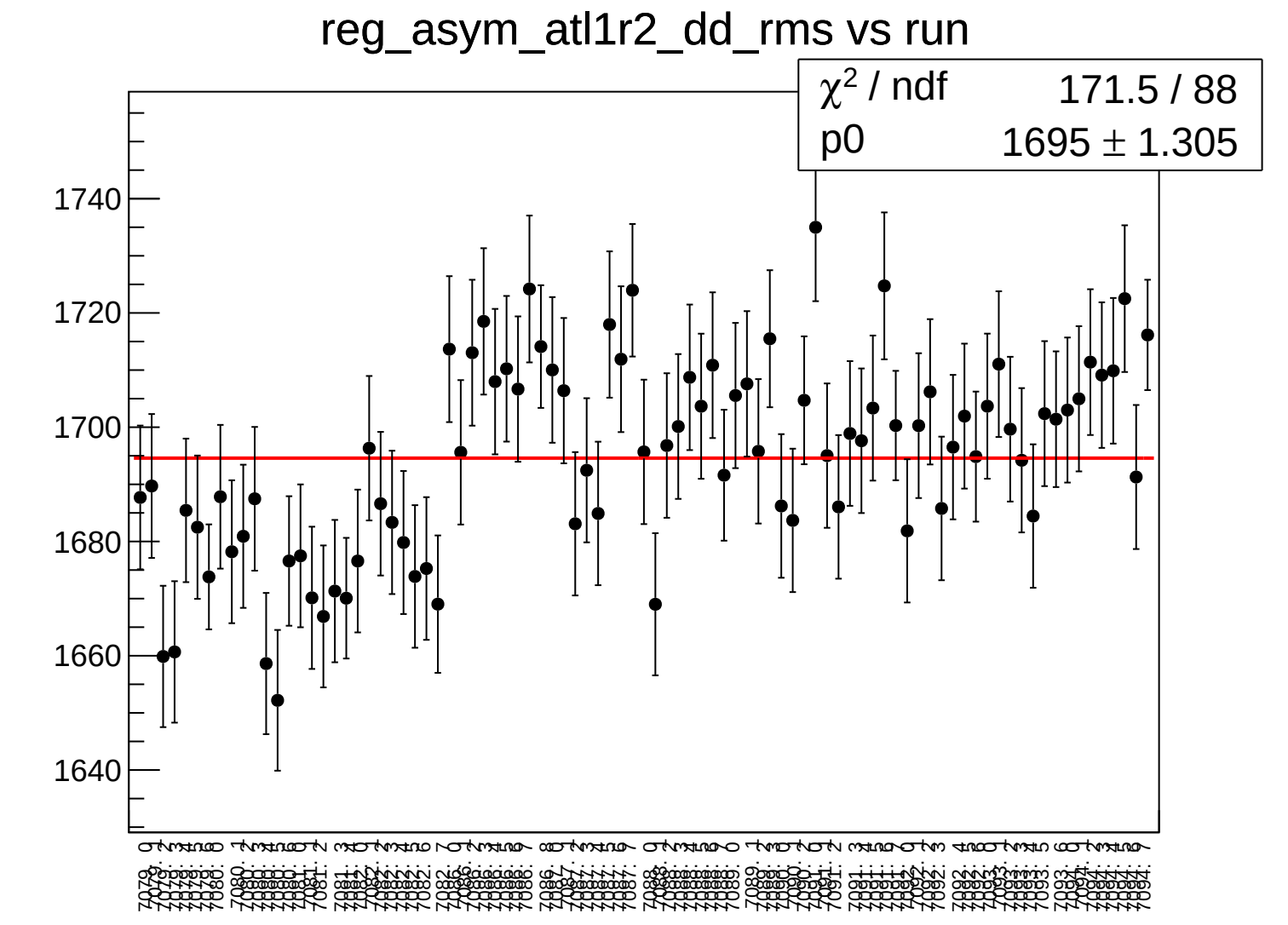

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.841e+04 / 88
p0 341.5 ± 0.2668
650
600
550
500
450
400
350
300
250
200

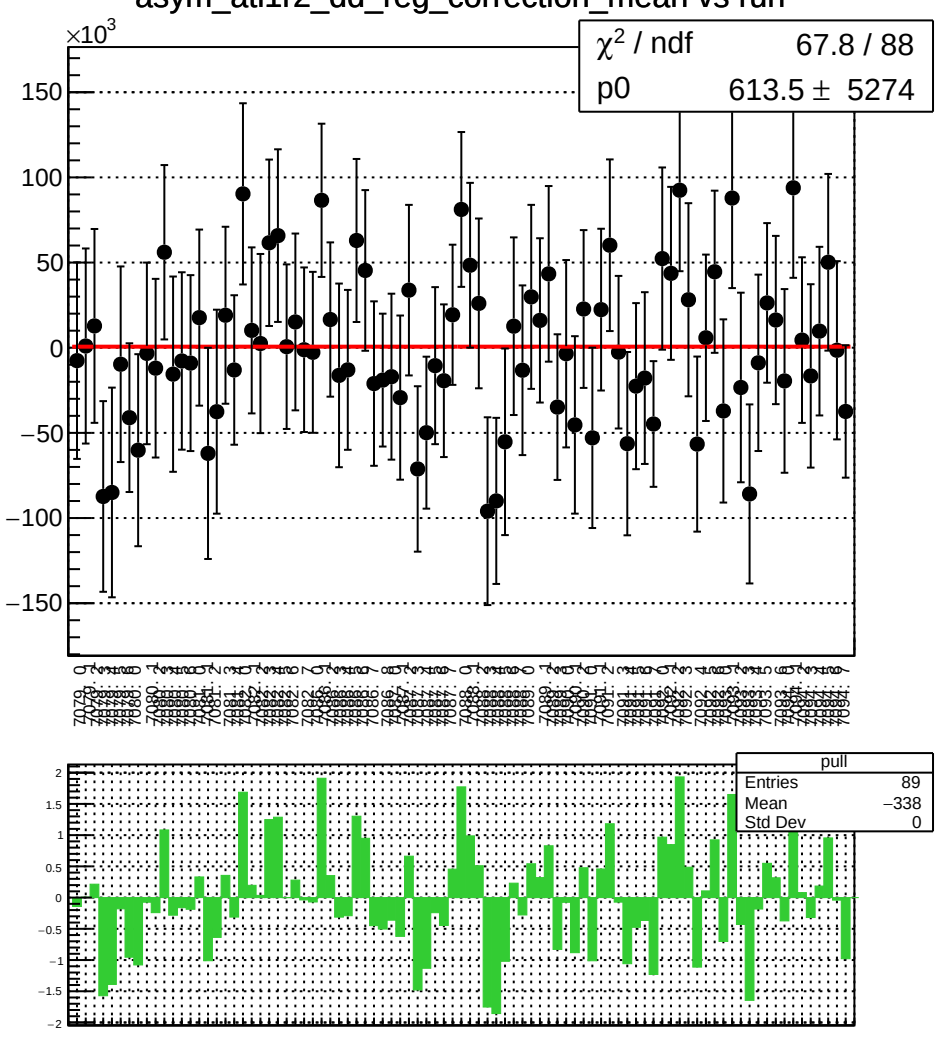

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.09 / 88
p0 −3.321e−14 ± 8.414e−14
pull
Entries 89
Mean −62.69
Std Dev 0
pull1D
Entries 89
Mean −0.04343
Std Dev 1.016

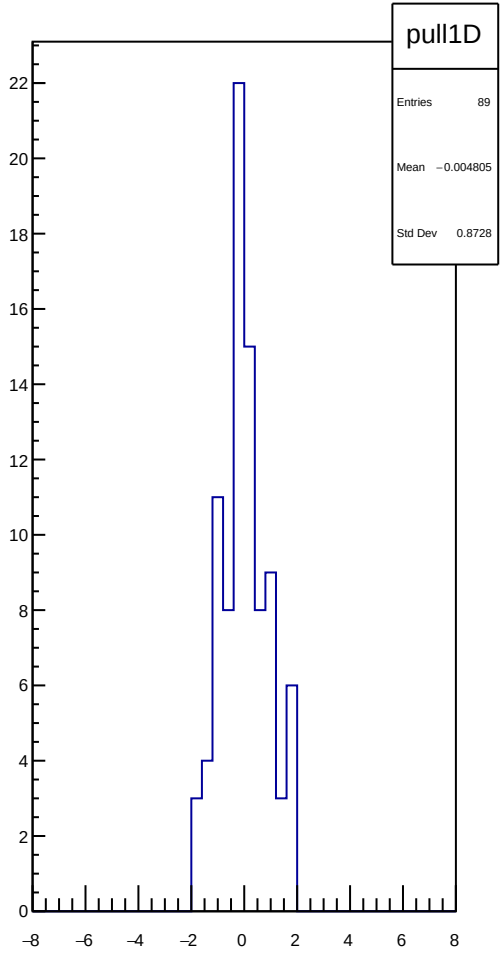

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.579e+05 / 88
p0 6.033e−11 ± 5.95e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

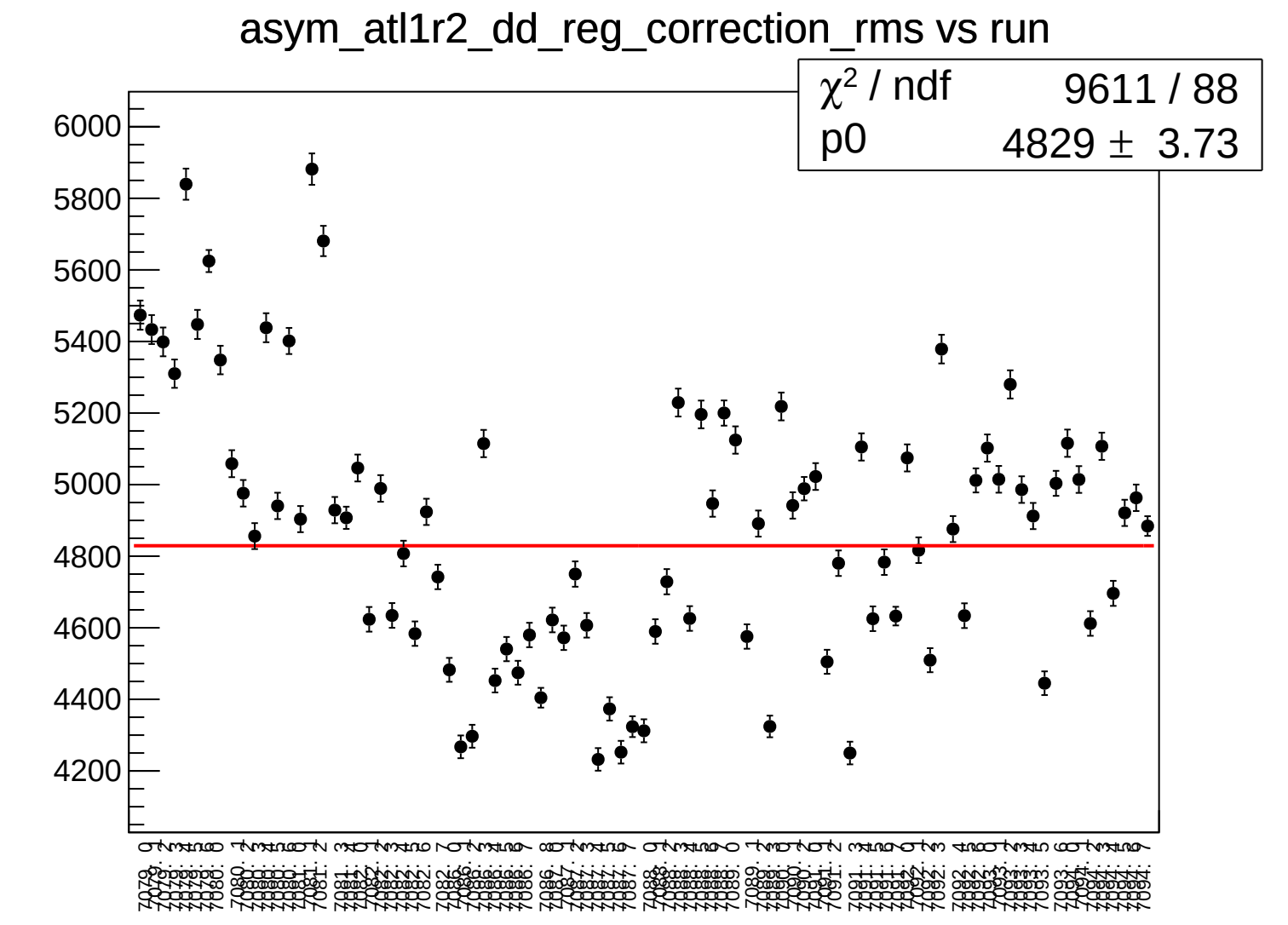

reg_asym_atl1r2_dd_mean vs run
χ^2 / ndf 102.2 / 88
p0 1629 ± 1846
pull
Entries 89
Mean 822.1
Std Dev 0

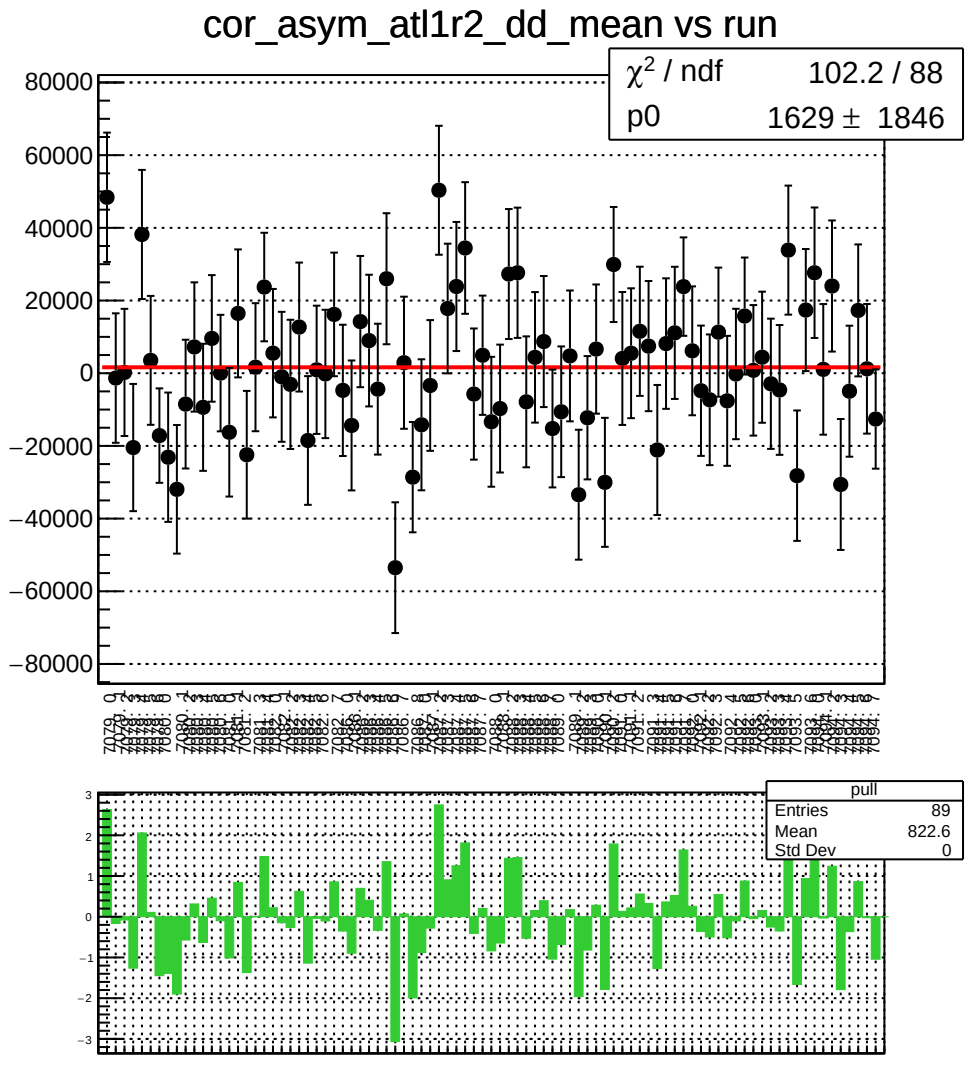

pull1D
Entries 89
Mean 0.001997
Std Dev 1.071

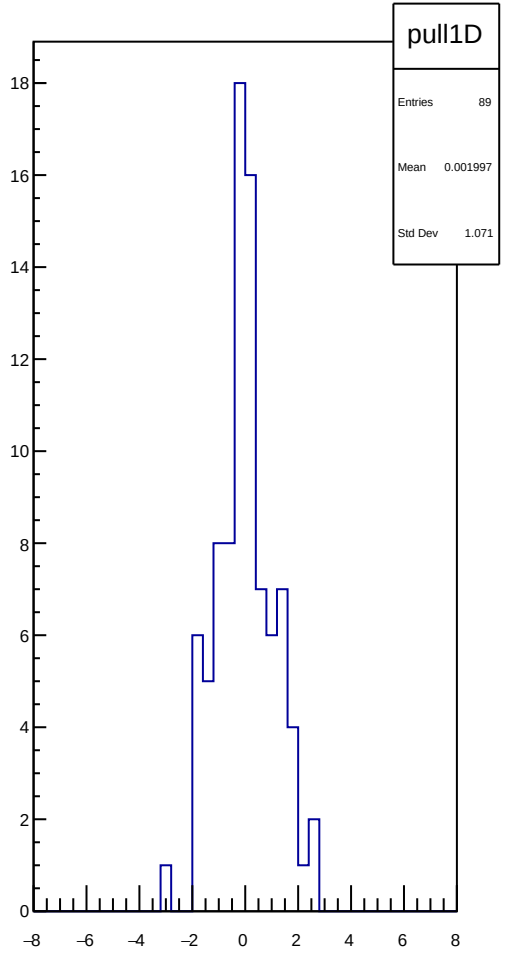

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 171.5 / 88
p0 1695 ± 1.305
1740
1720
1700
1680
1660
1640

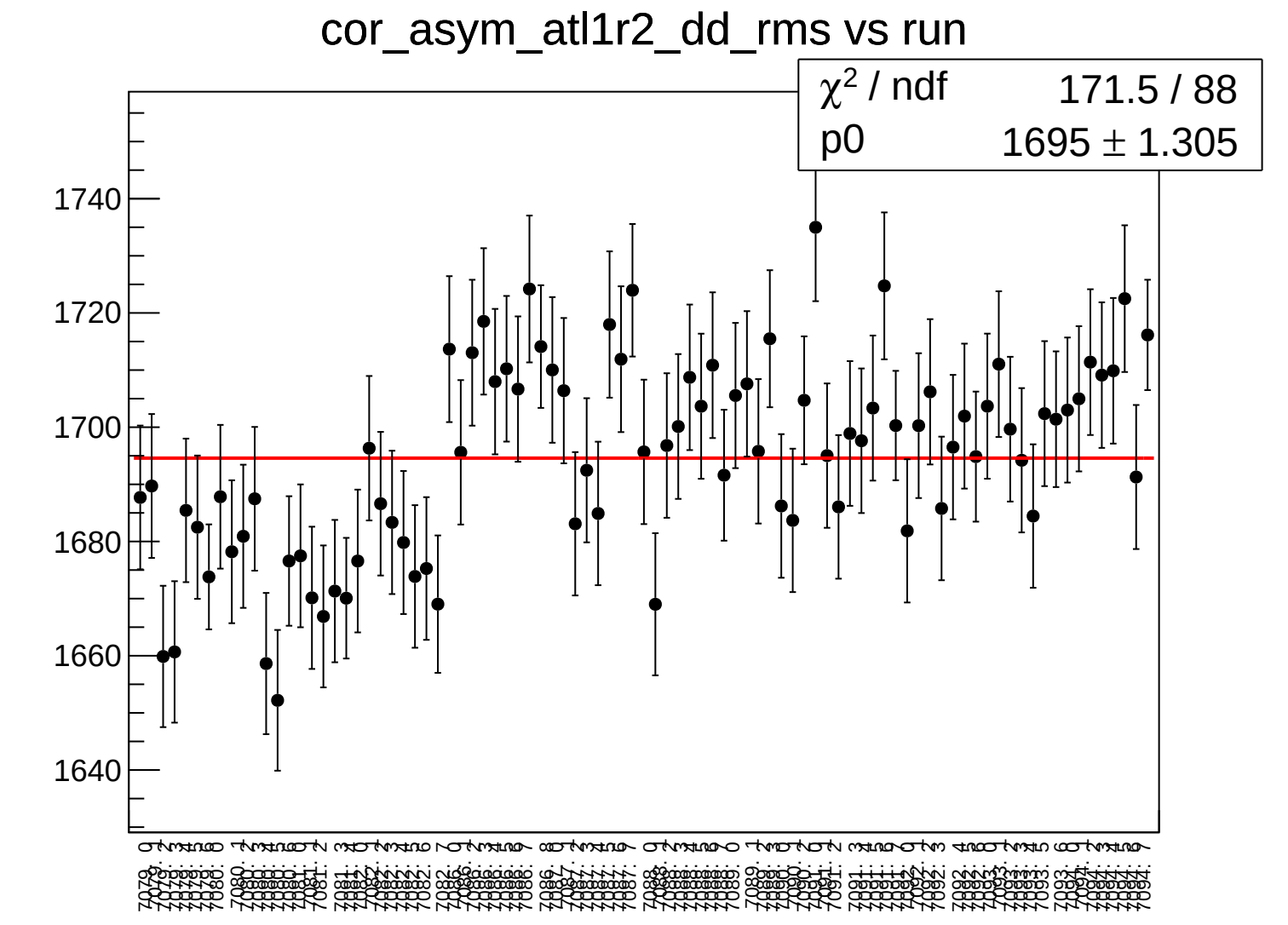

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 67.8 / 88
p0 613.5 ± 5274
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −338
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

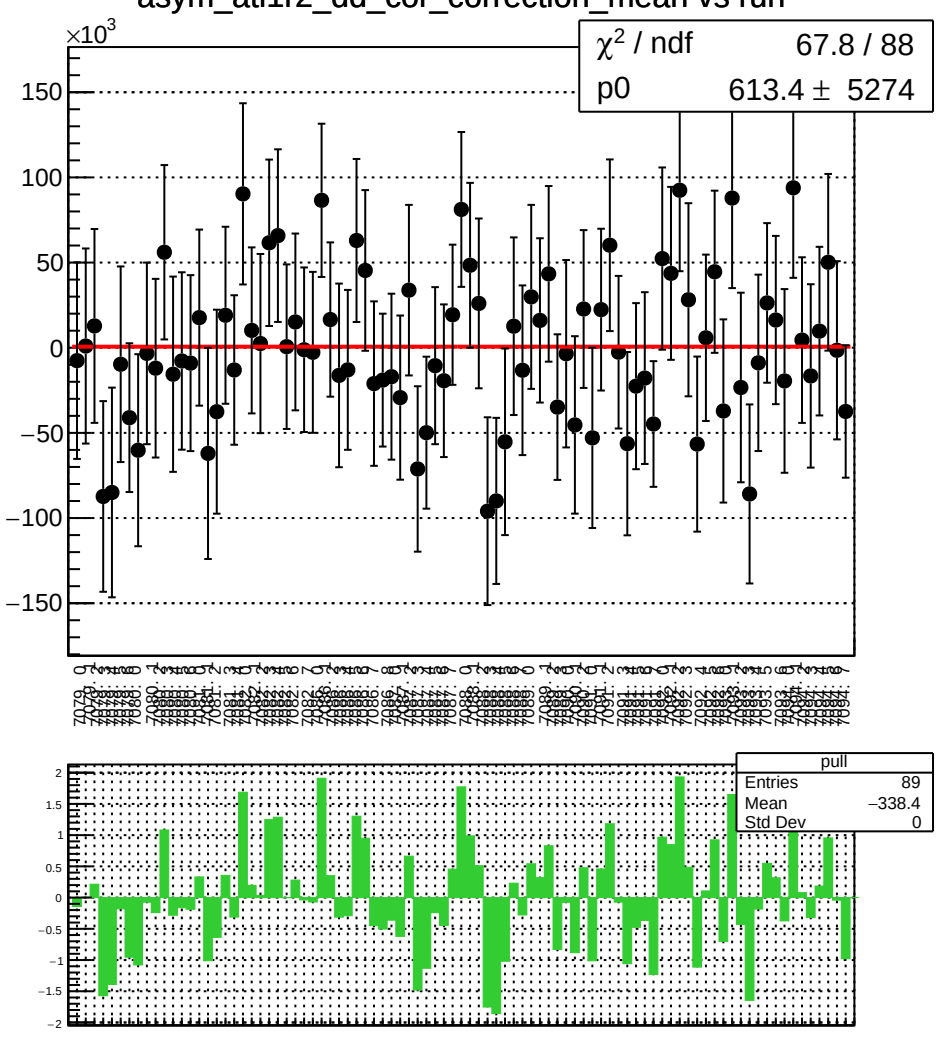

pull1D
Entries 89
Mean −0.004805
Std Dev 0.8728
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

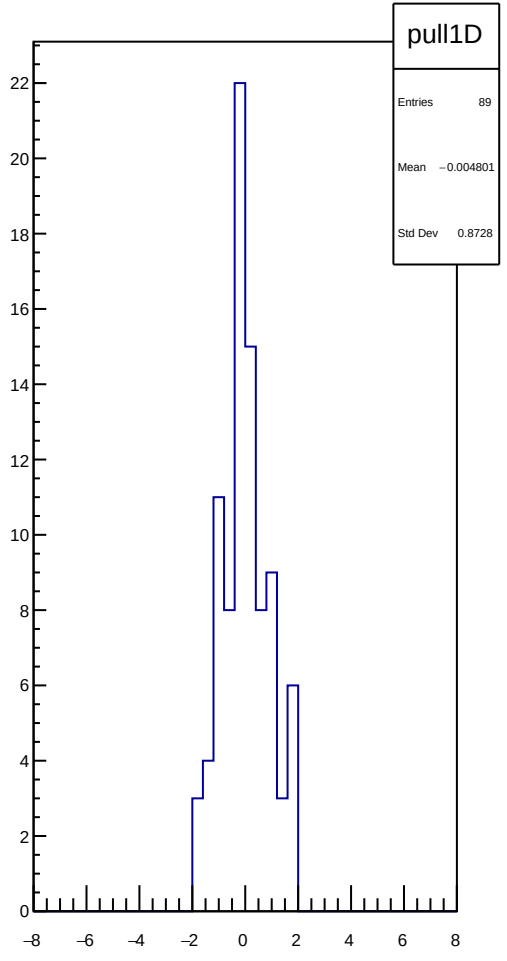

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 9611 / 88
p0 4829 ± 3.73
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

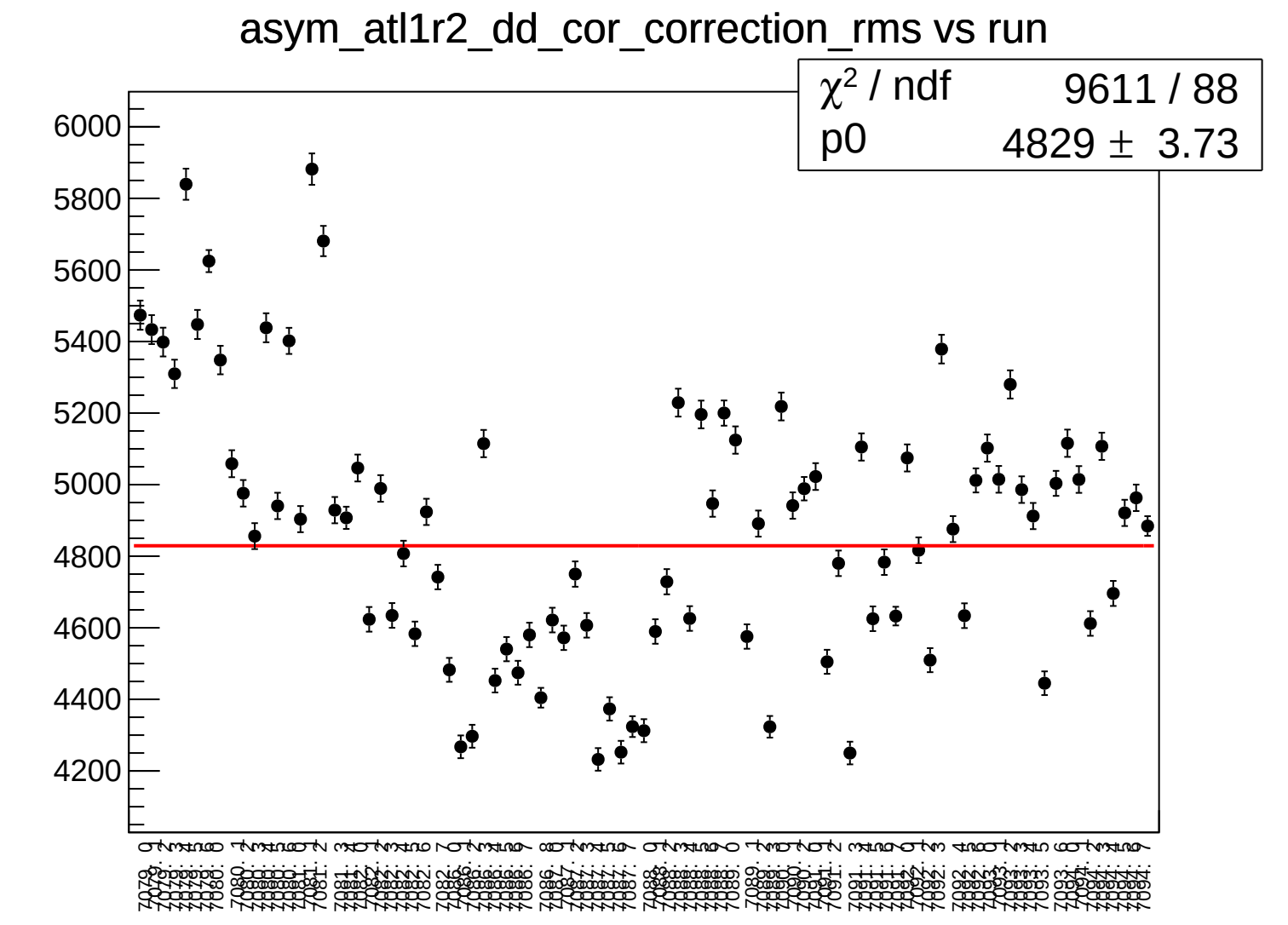

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 102.2 / 88
p0 1629 ± 1846
pull
Entries 89
Mean 822.6
Std Dev 0

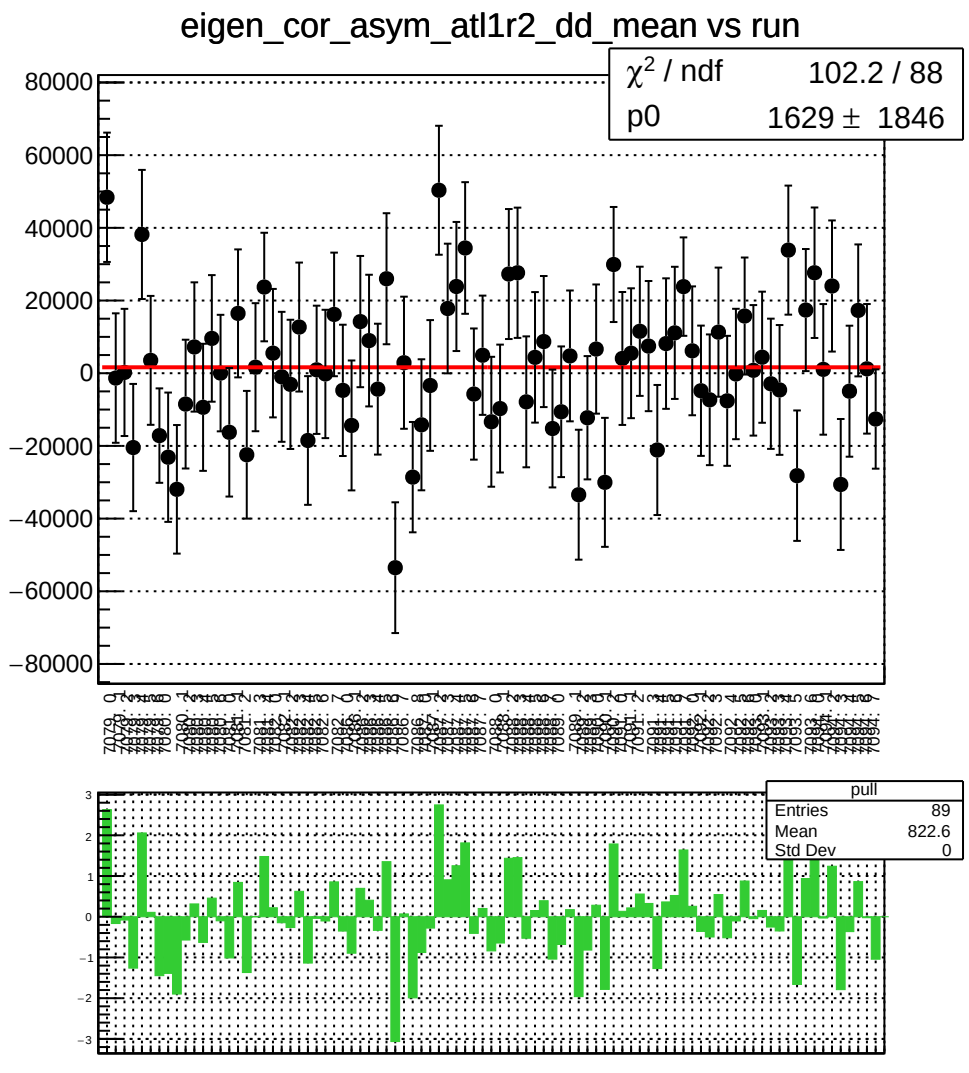

pull1D
Entries 89
Mean 0.001997
Std Dev 1.071

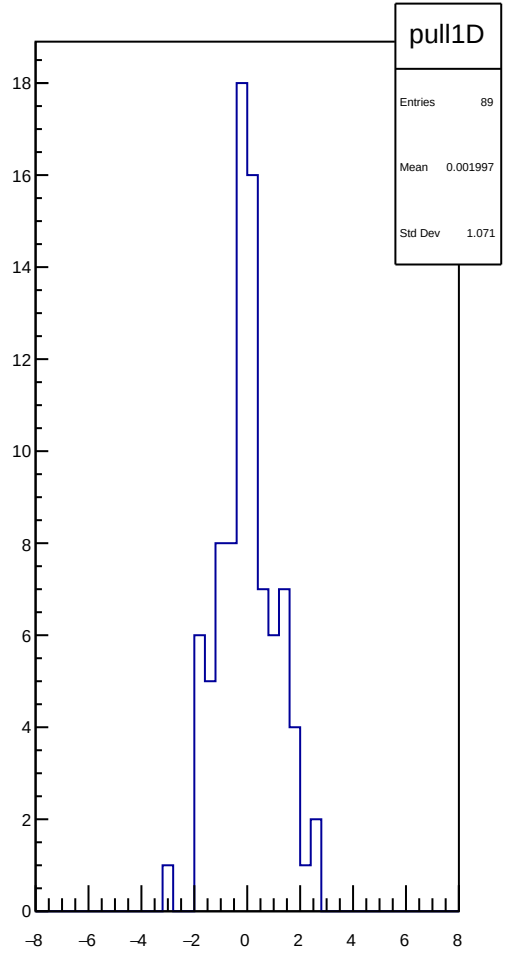

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 171.5 / 88
p0 1695 ± 1.305
1740
1720
1700
1680
1660
1640

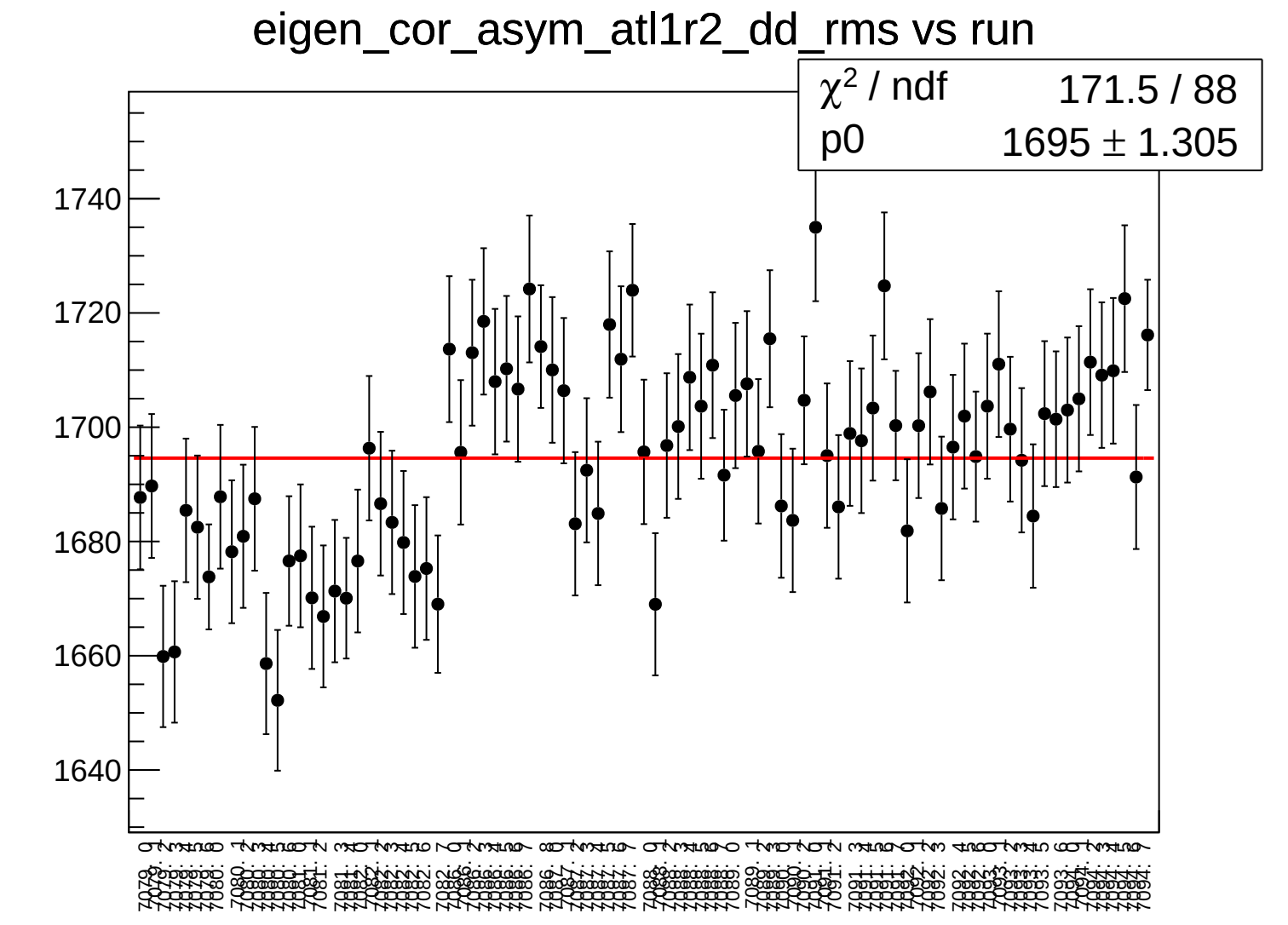

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 67.8 / 88
p0 613.4 ± 5274
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −338.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

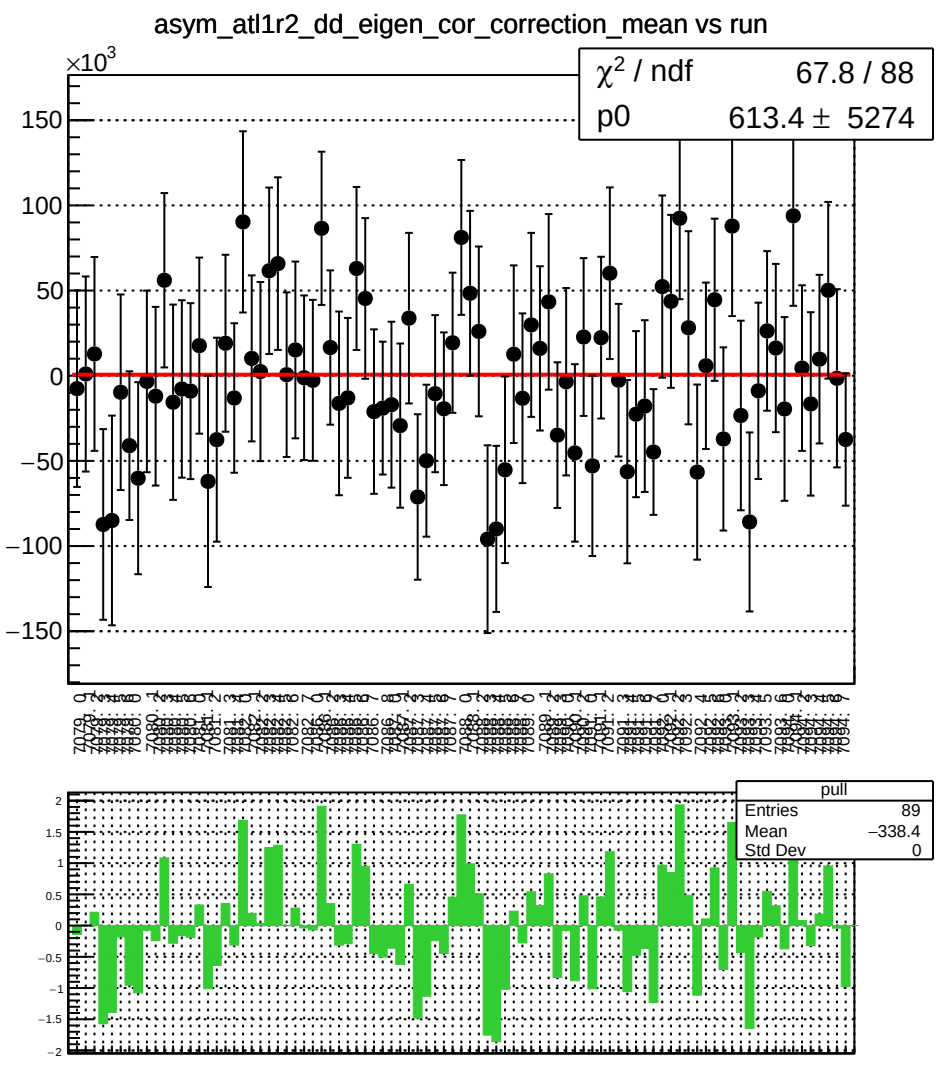

pull1D
Entries 89
Mean −0.004801
Std Dev 0.8728
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

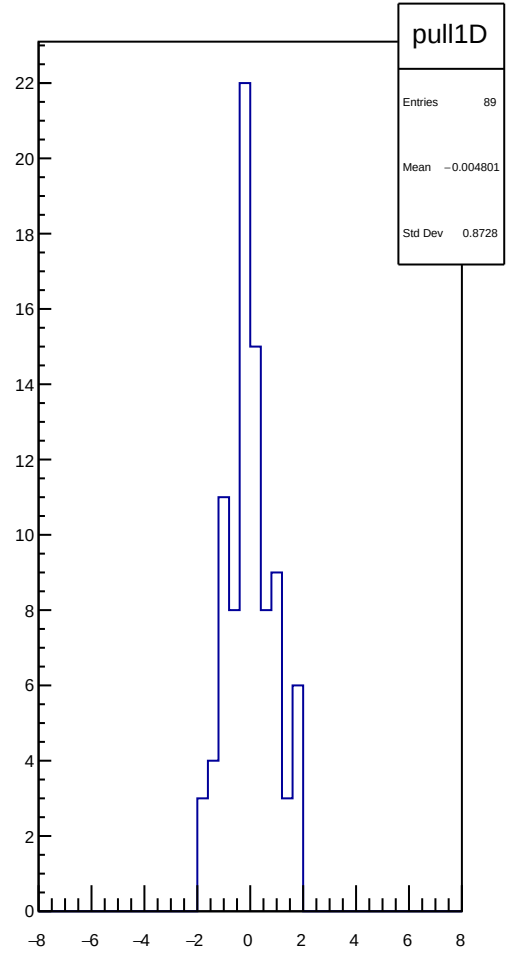

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 9611 / 88
p0 4829 ± 3.73
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

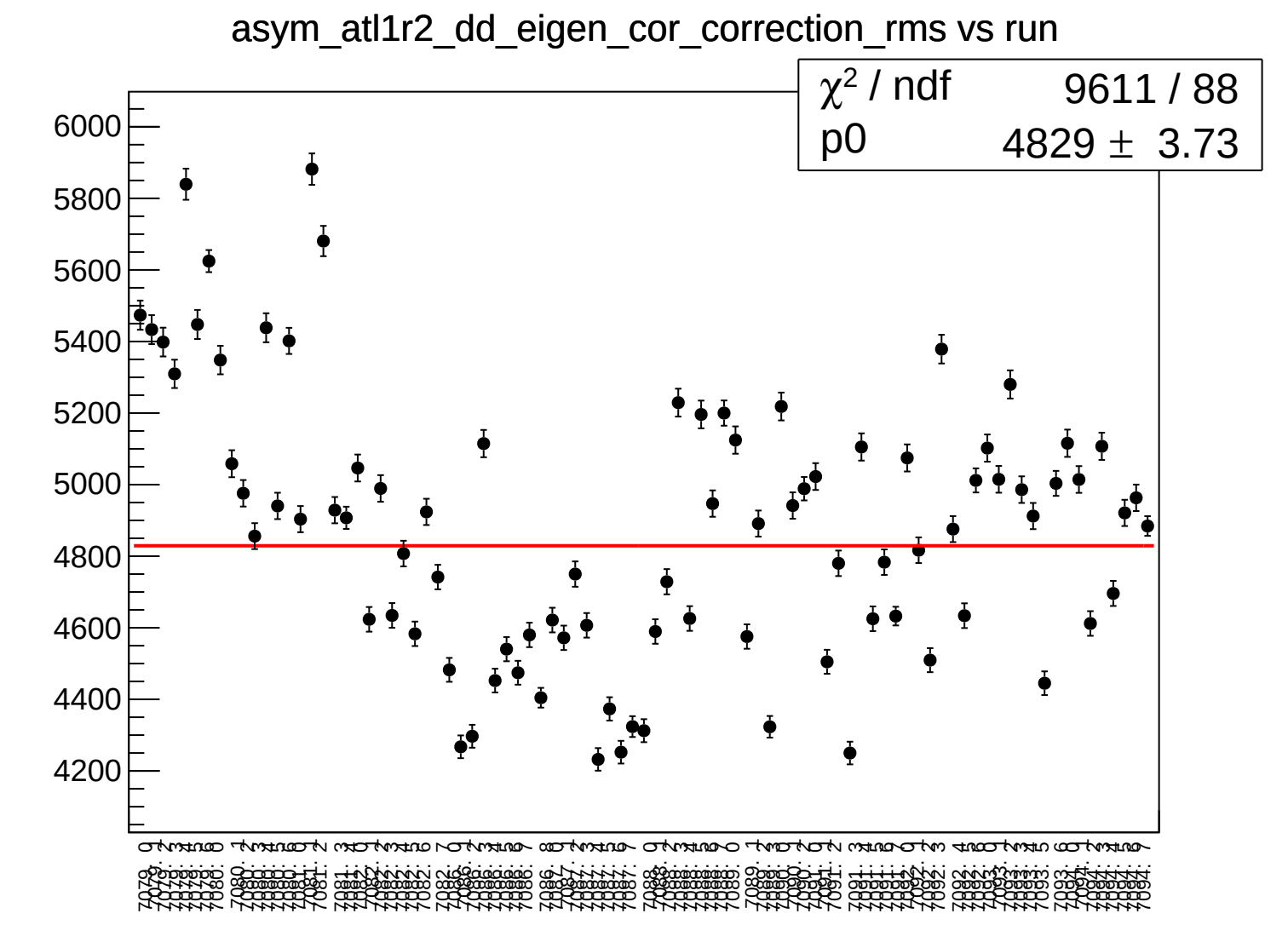

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 102.2 / 88
p0 1629 ± 1846
pull
Entries 89
Mean 822.6
Std Dev 0

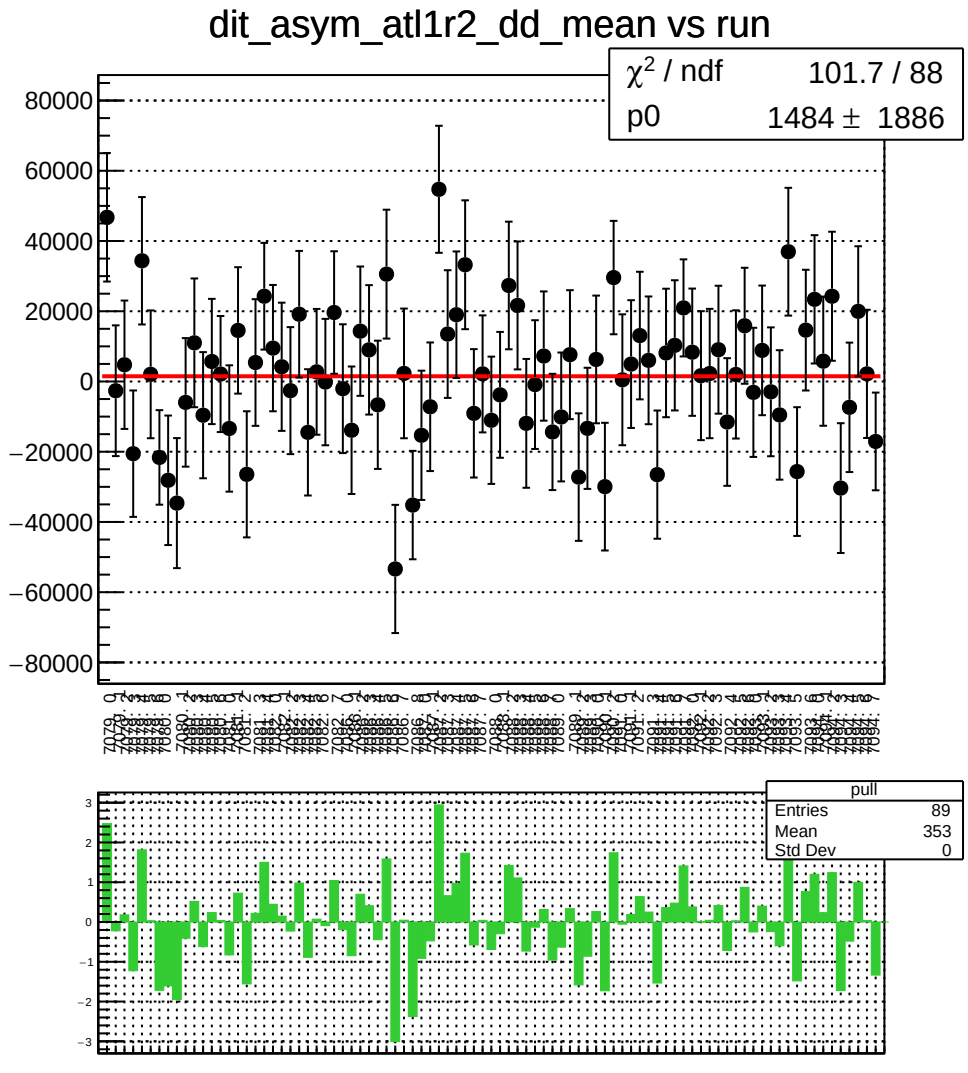

pull1D
Entries 89
Mean 0.001997
Std Dev 1.071

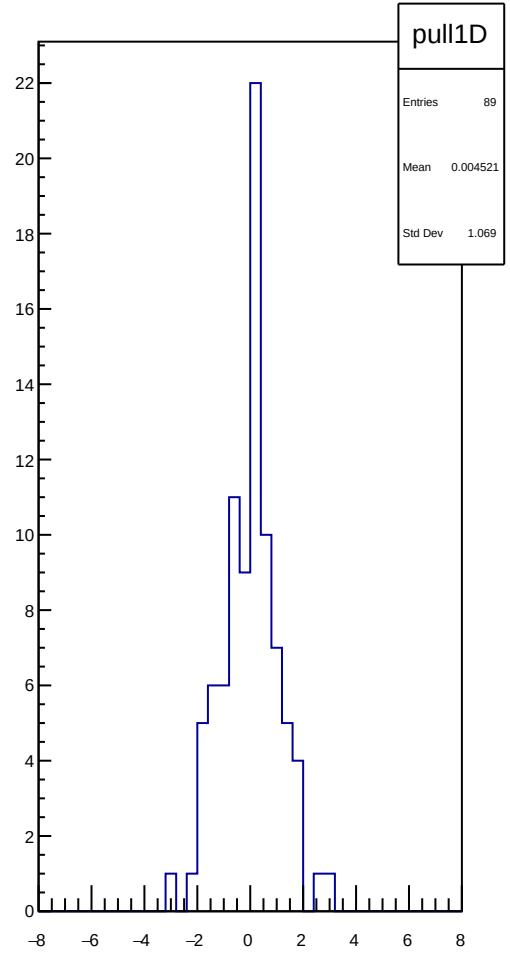

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 171.5 / 88
p0 1695 ± 1.305
1740
1720
1700
1680
1660
1640

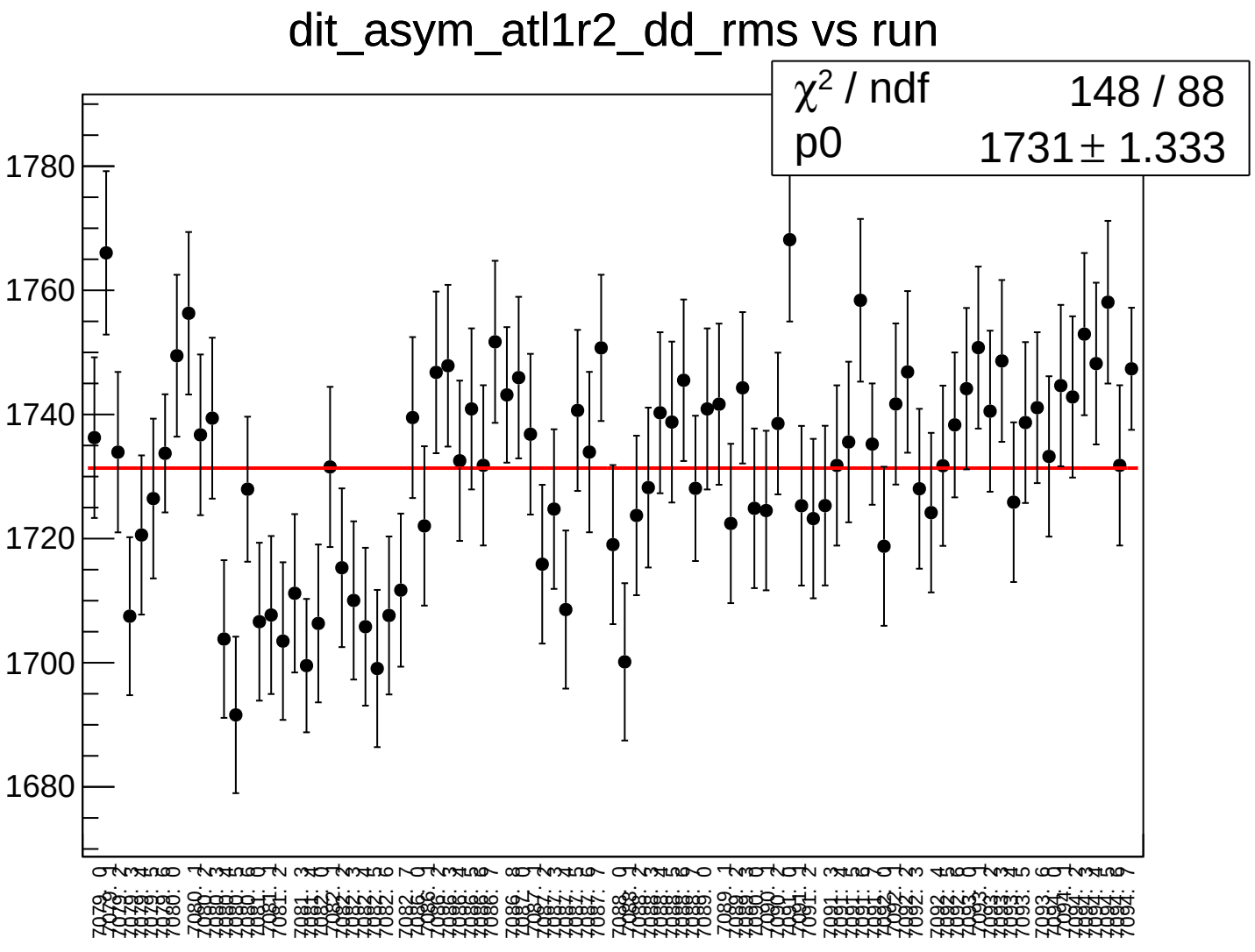

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.8 / 88
p0 613.4 ± 5274
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −338.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

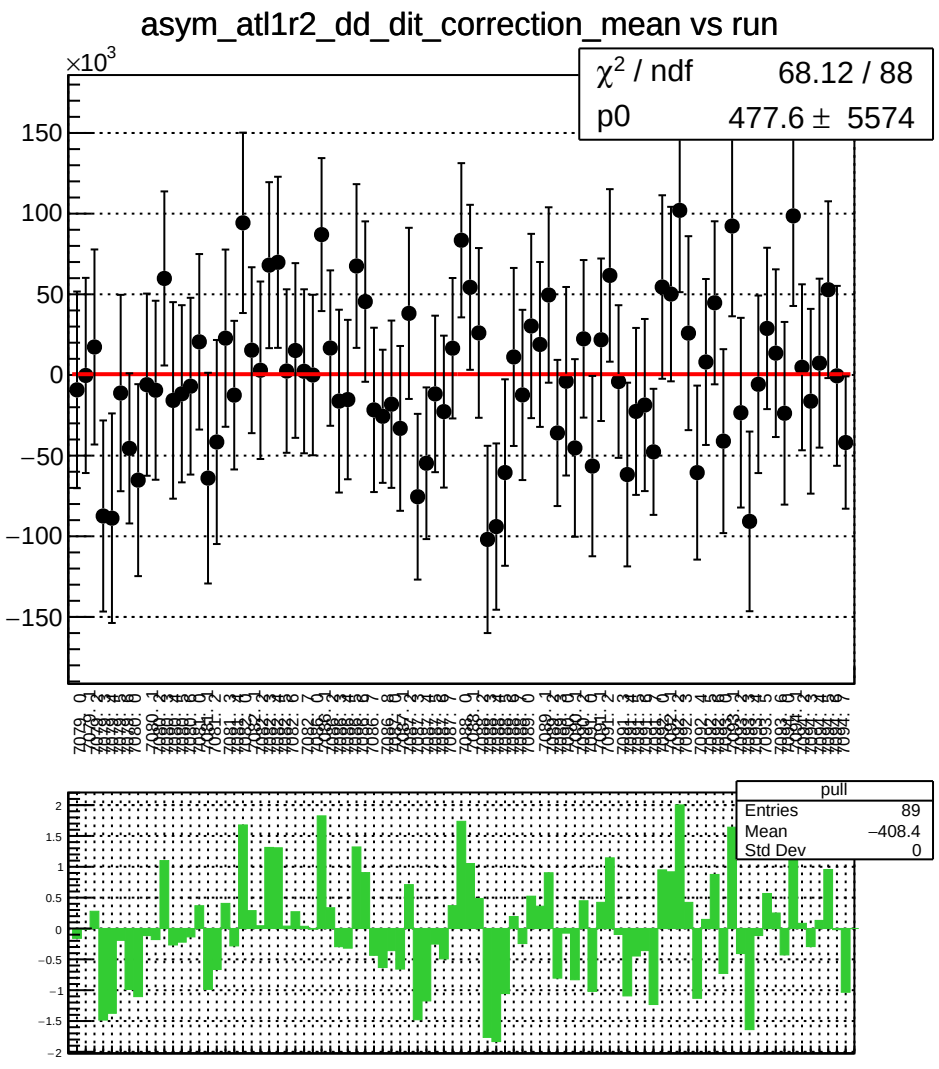

pull1D
Entries 89
Mean −0.004801
Std Dev 0.8728
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

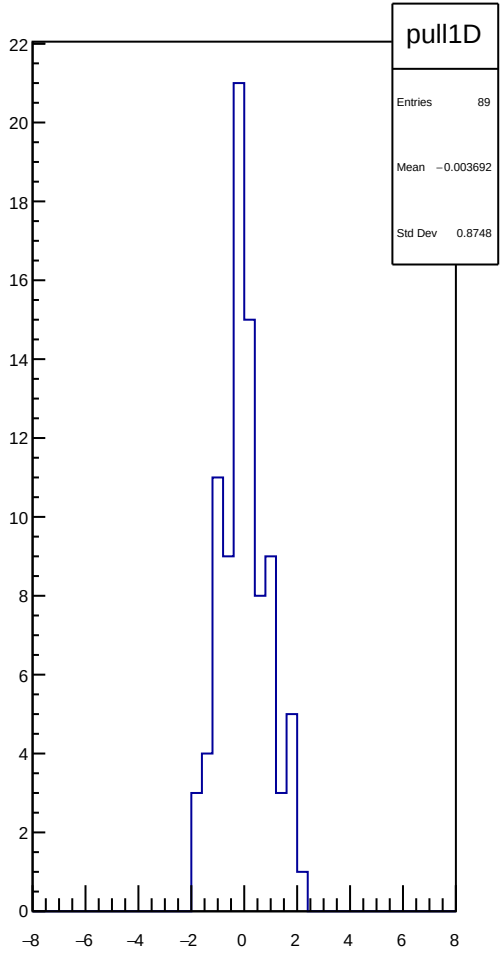

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 9611 / 88
p0 4829 ± 3.73
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

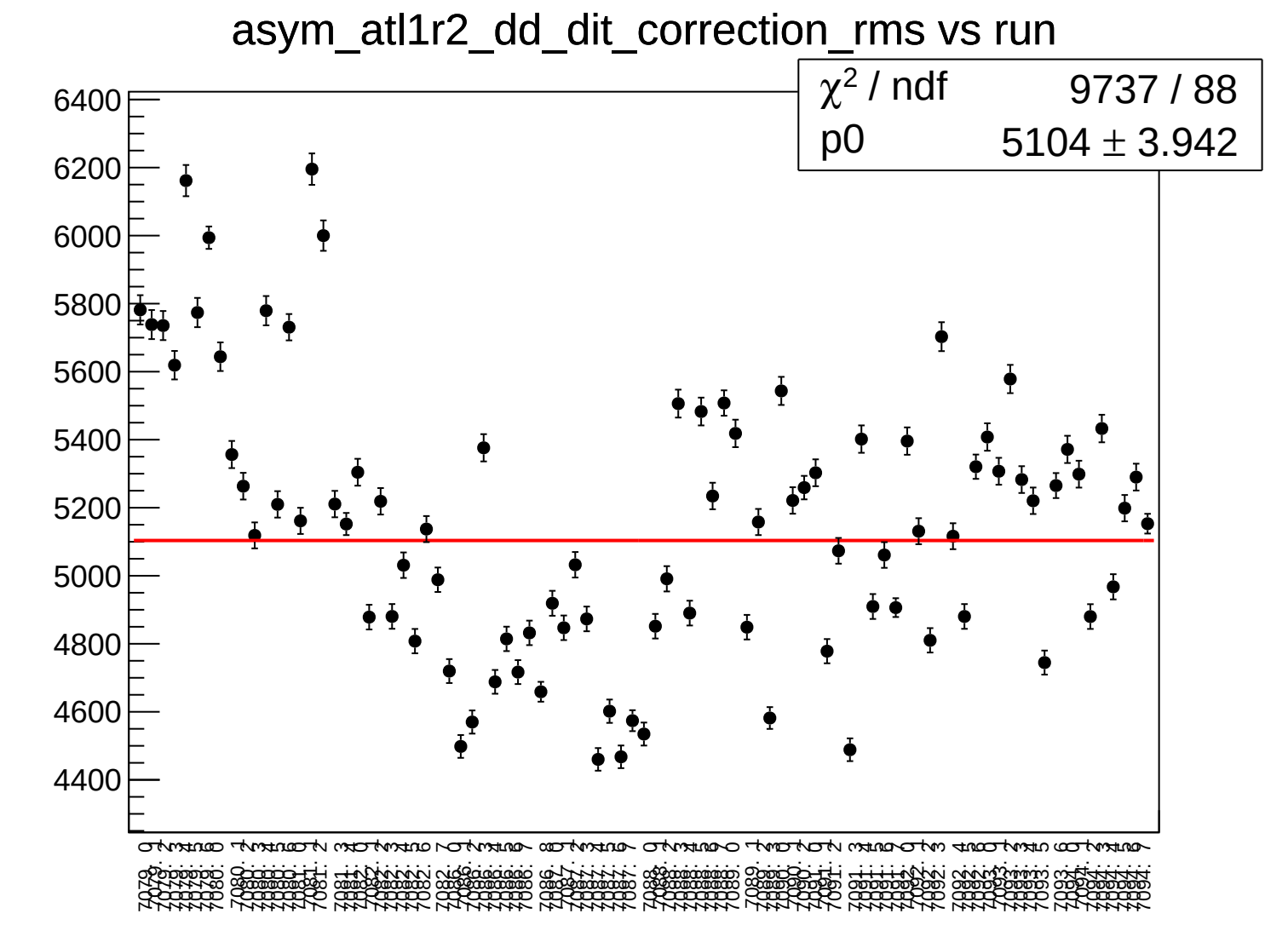

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 101.7 / 88
p0 1484 ± 1886
pull
Entries 89
Mean 353
Std Dev 0

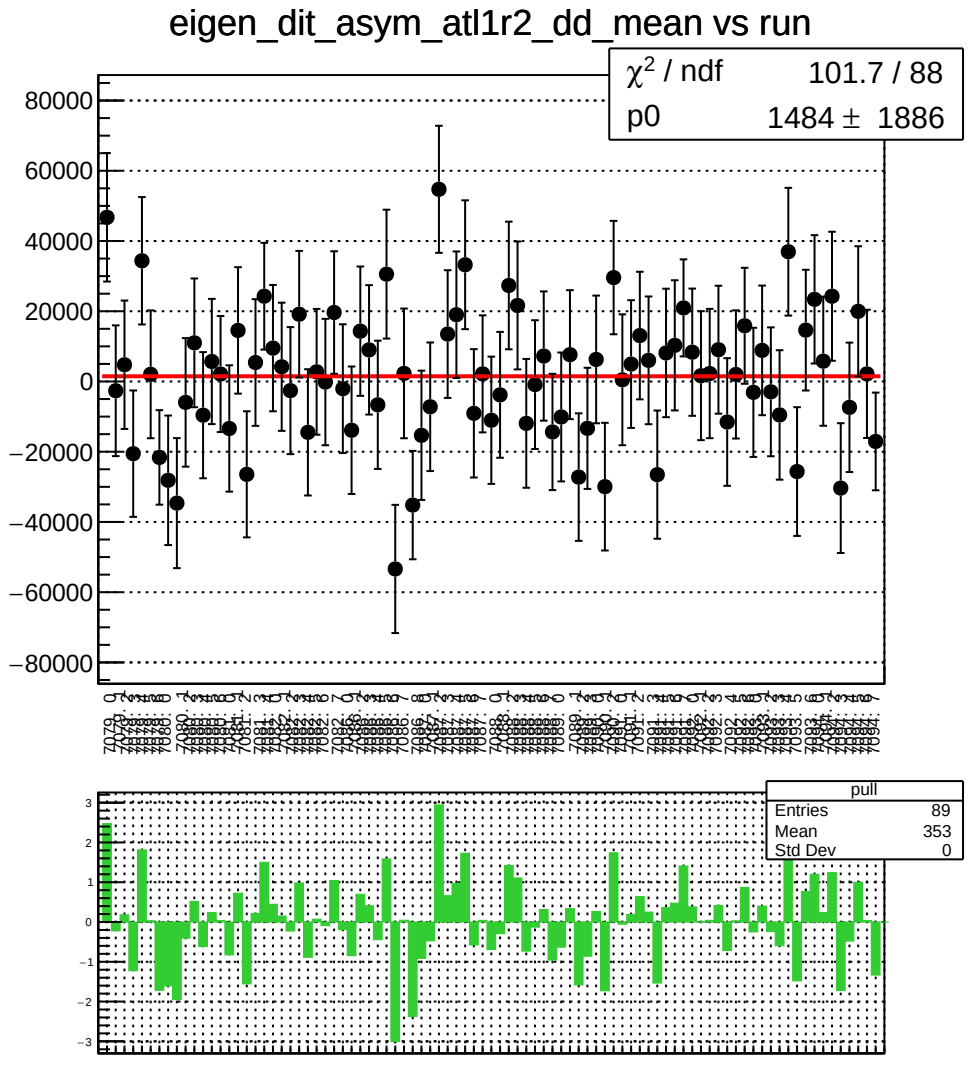

pull1D
Entries 89
Mean 0.004521
Std Dev 1.069

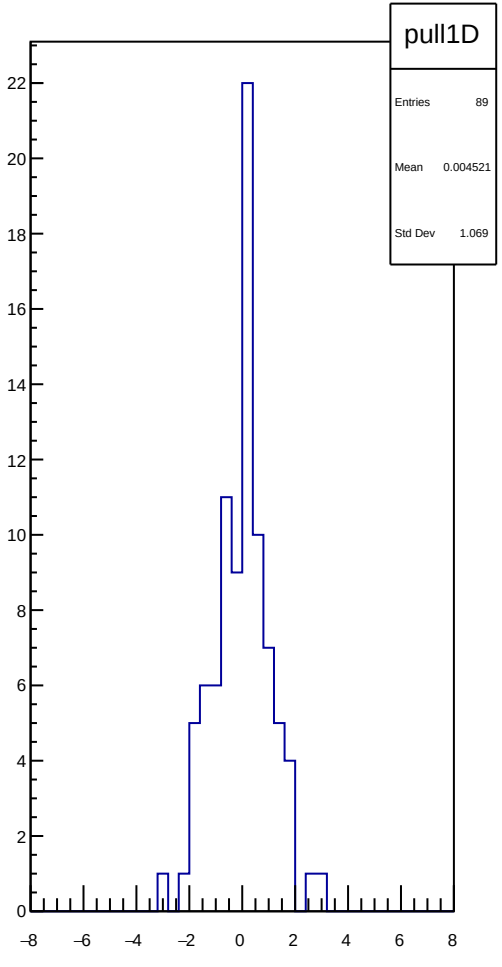

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 148 / 88
p0 1731 ± 1.333
1780
1760
1740
1720
1700
1680

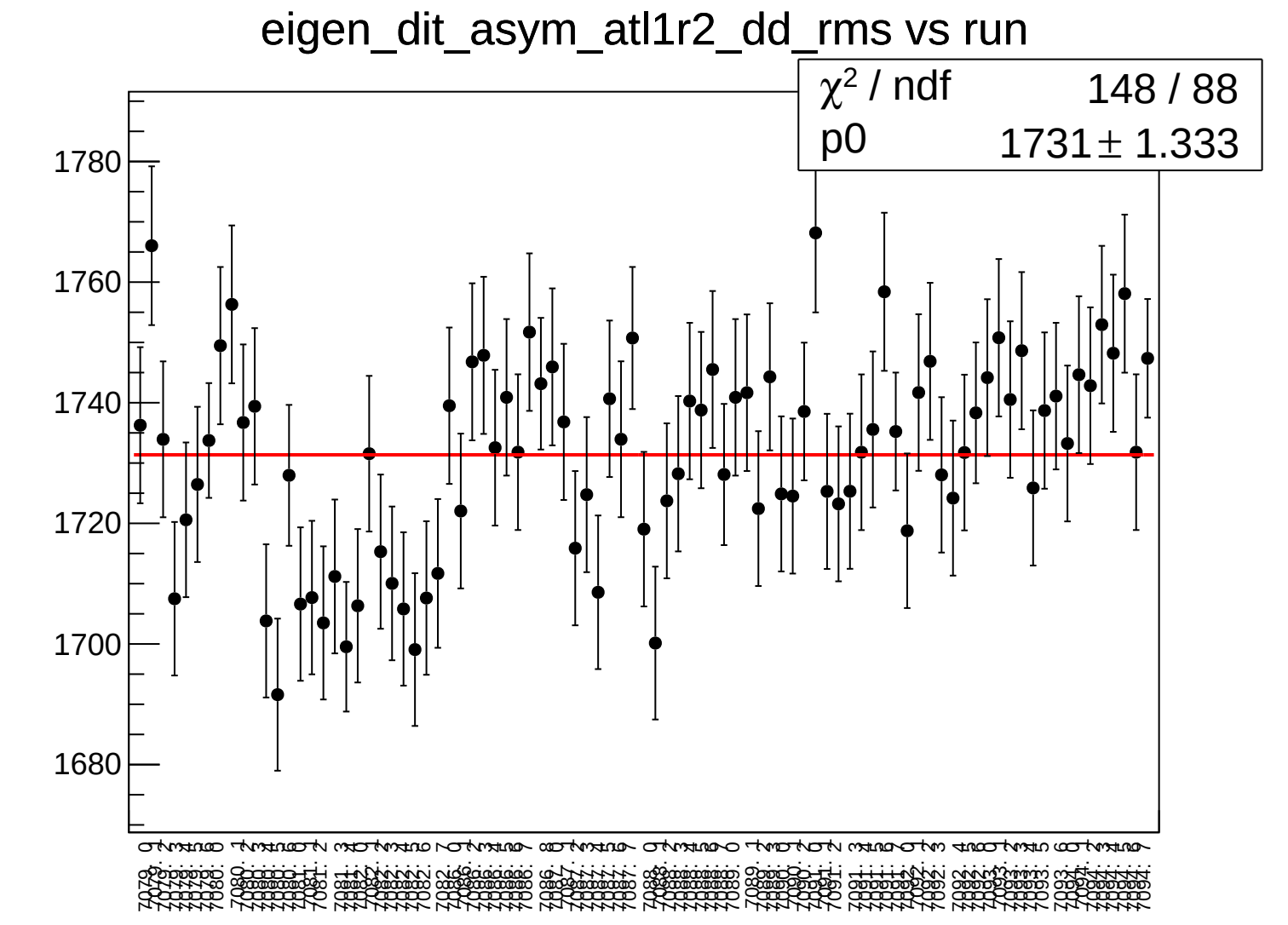

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.12 / 88
p0 477.6 ± 5574
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −408.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

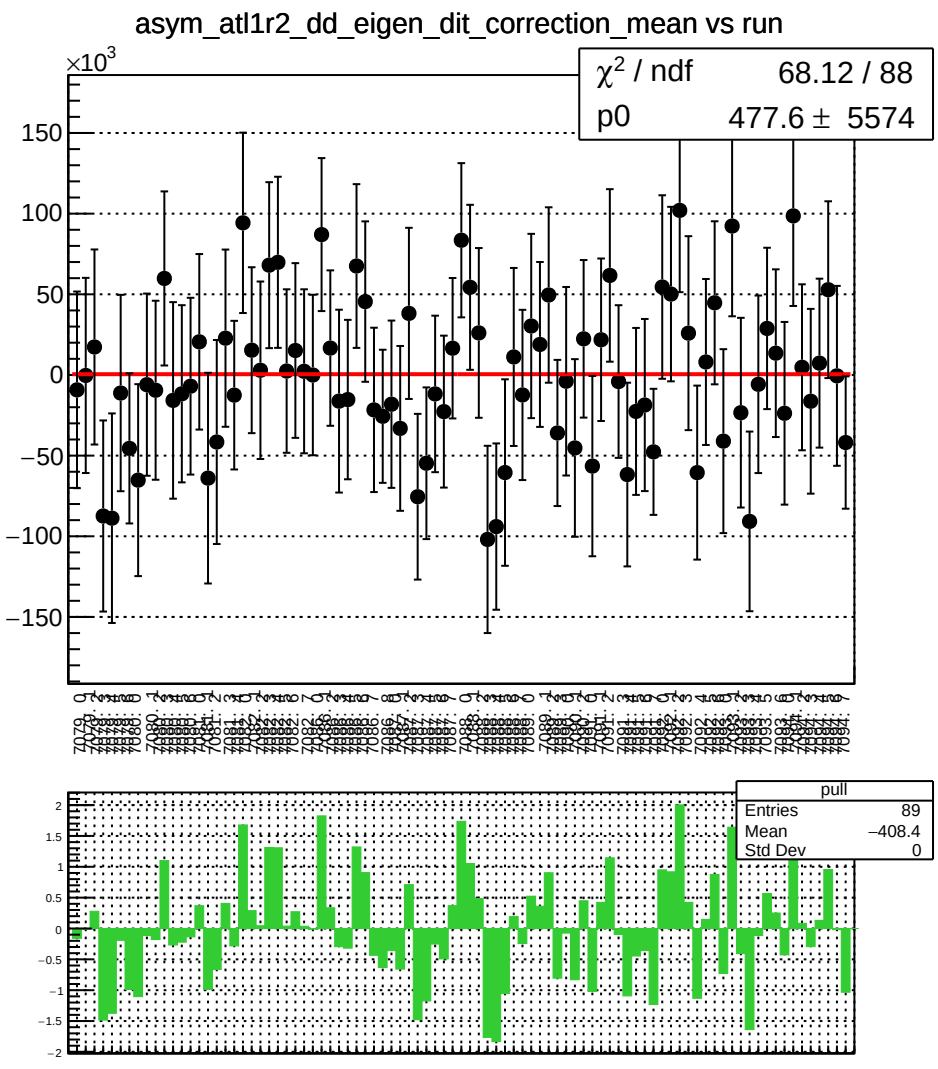

pull1D
Entries 89
Mean −0.003692
Std Dev 0.8748
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

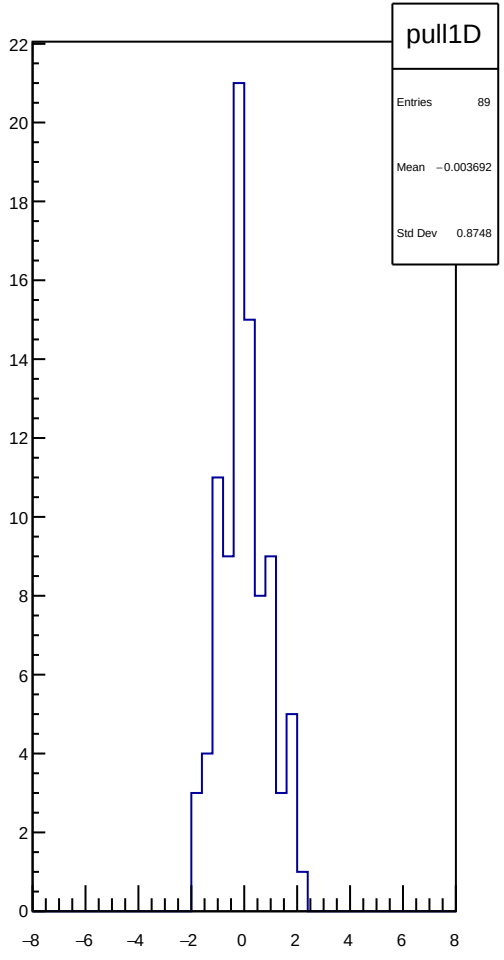

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 9737 / 88
p0 5104 ± 3.942
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

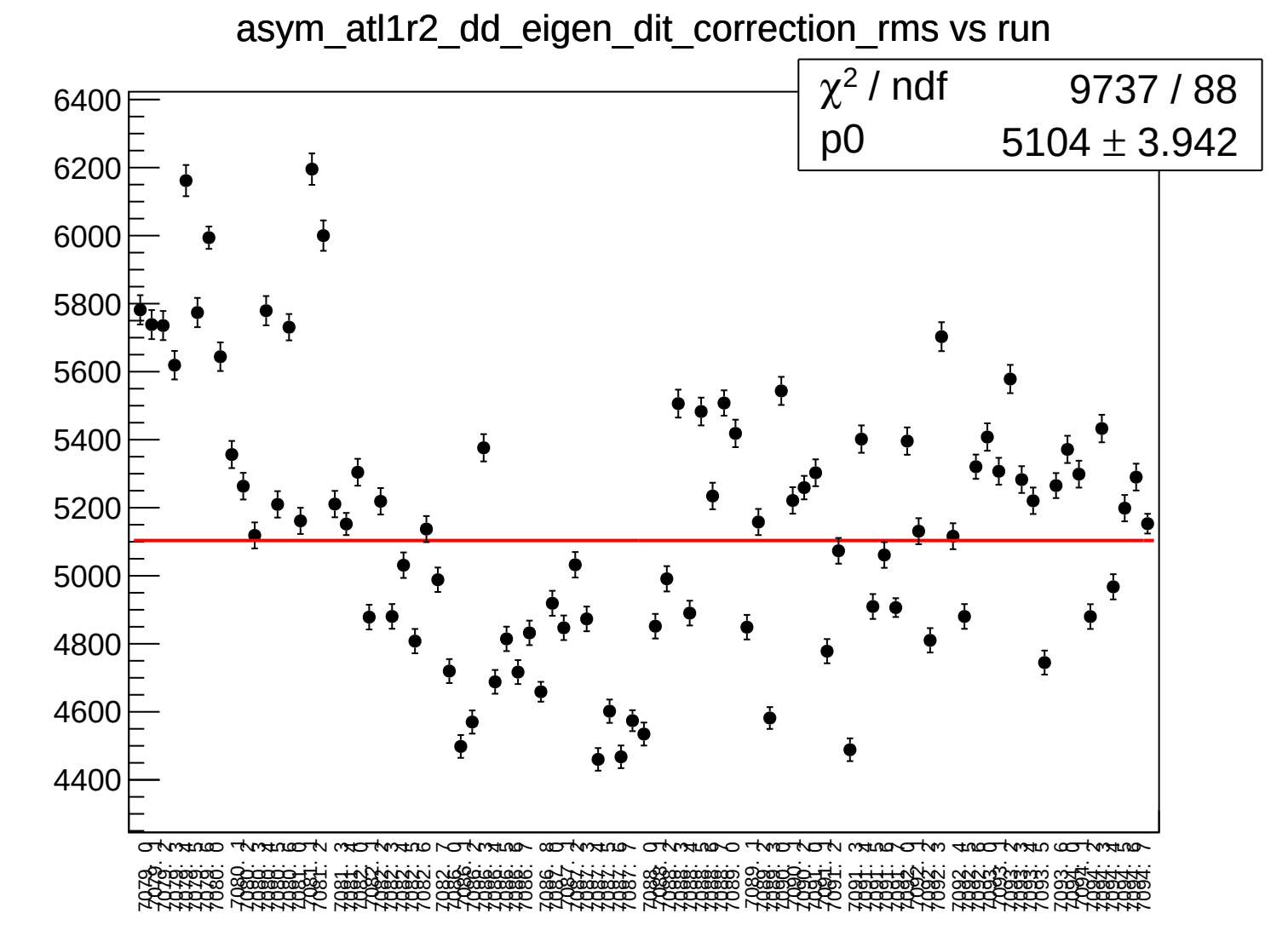

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 101.7 / 88
p0 1484 ± 1886
pull
Entries 89
Mean 353
Std Dev 0

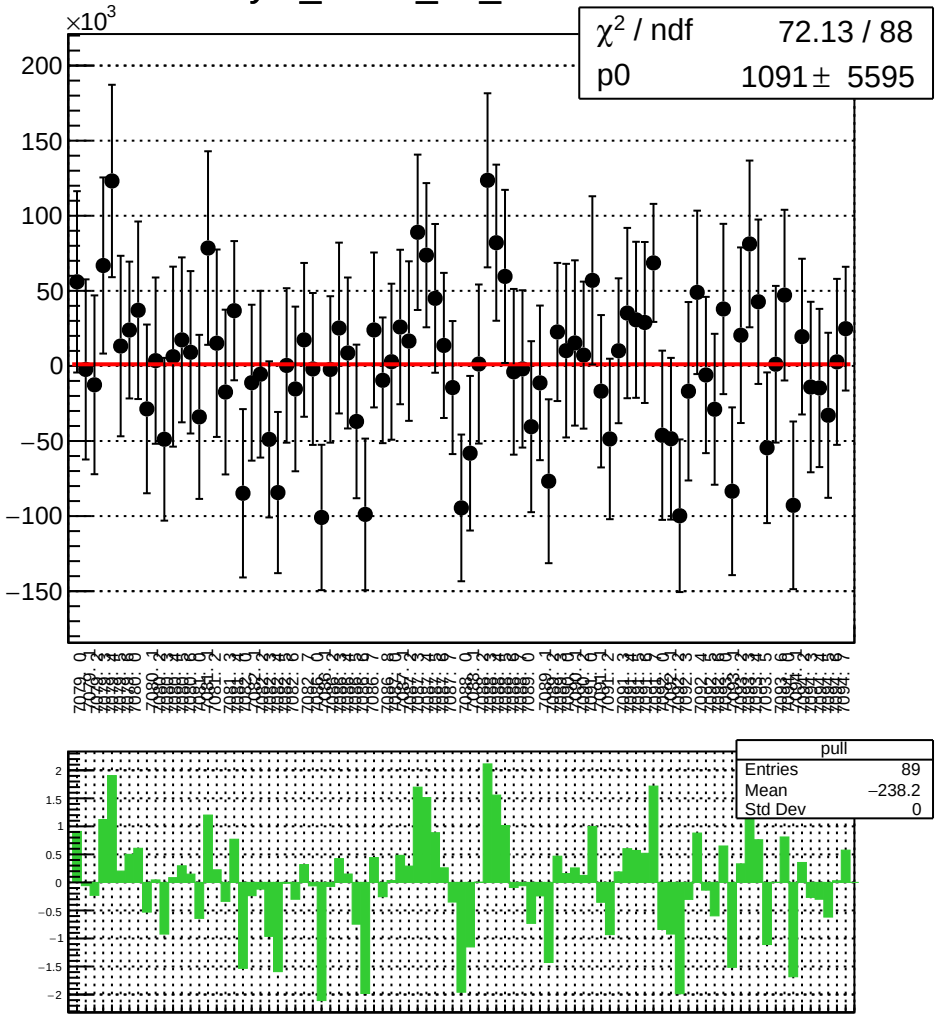

pull1D
Entries 89
Mean 0.004521
Std Dev 1.069

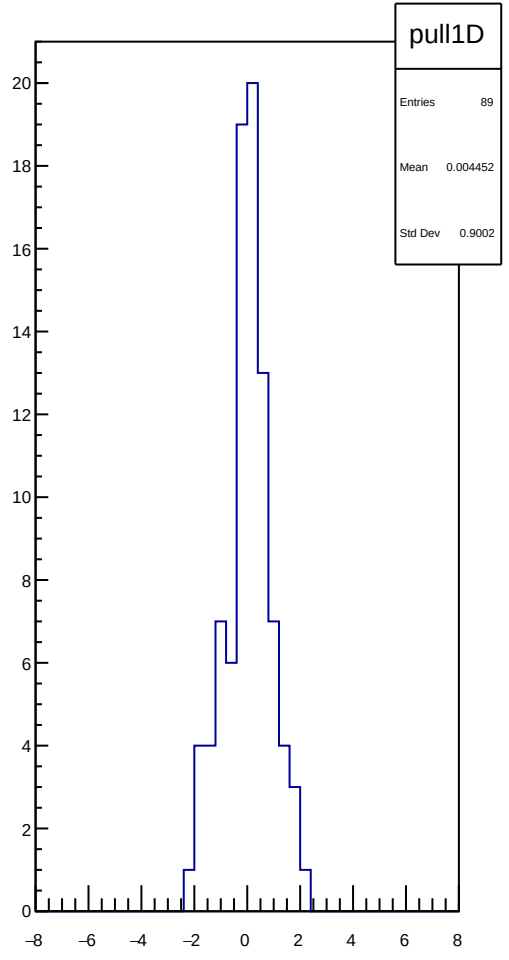

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 148 / 88
p0 1731 ± 1.333
1780
1760
1740
1720
1700
1680

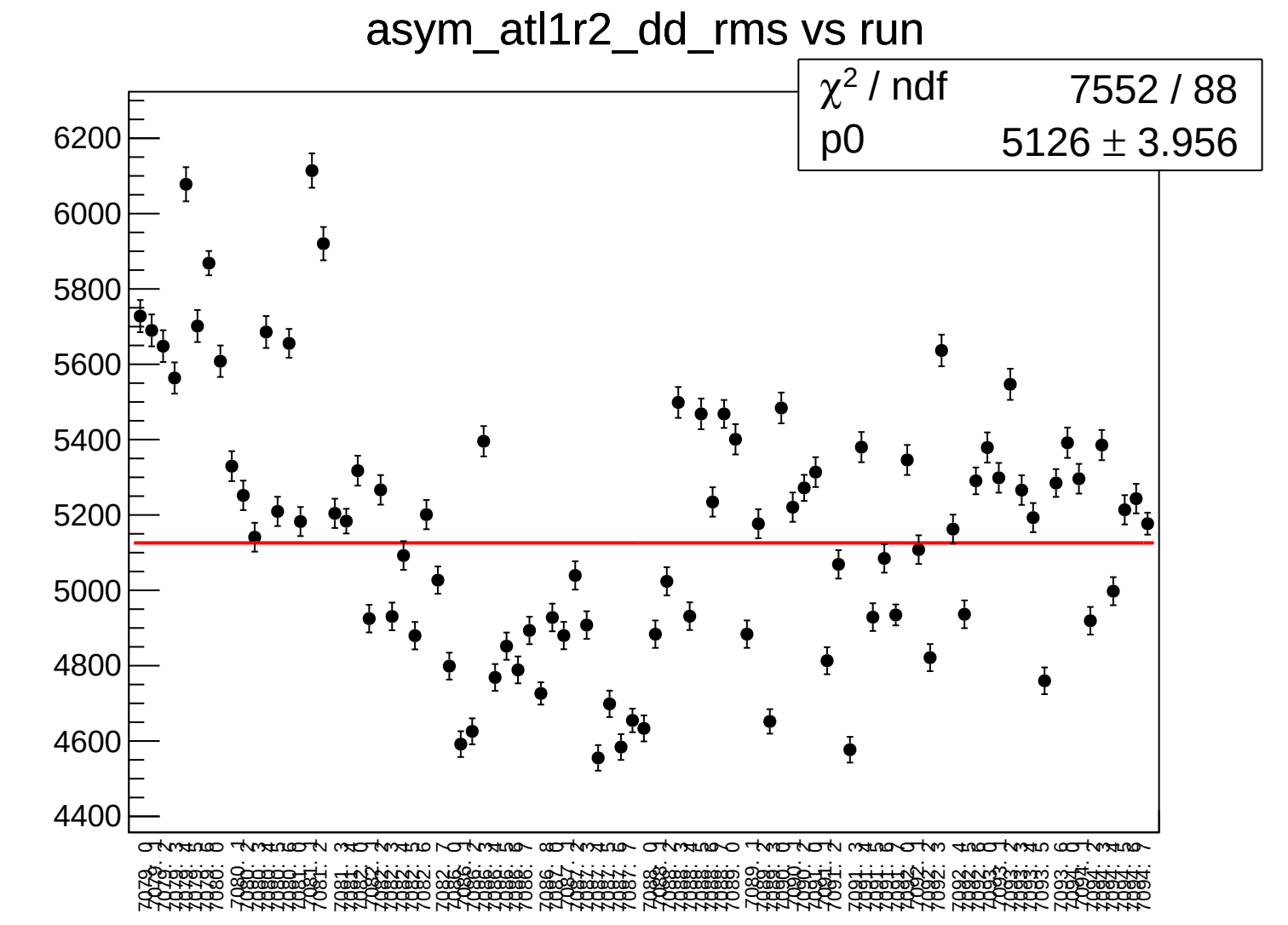

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.12 / 88
p0 477.6 ± 5574
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −408.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

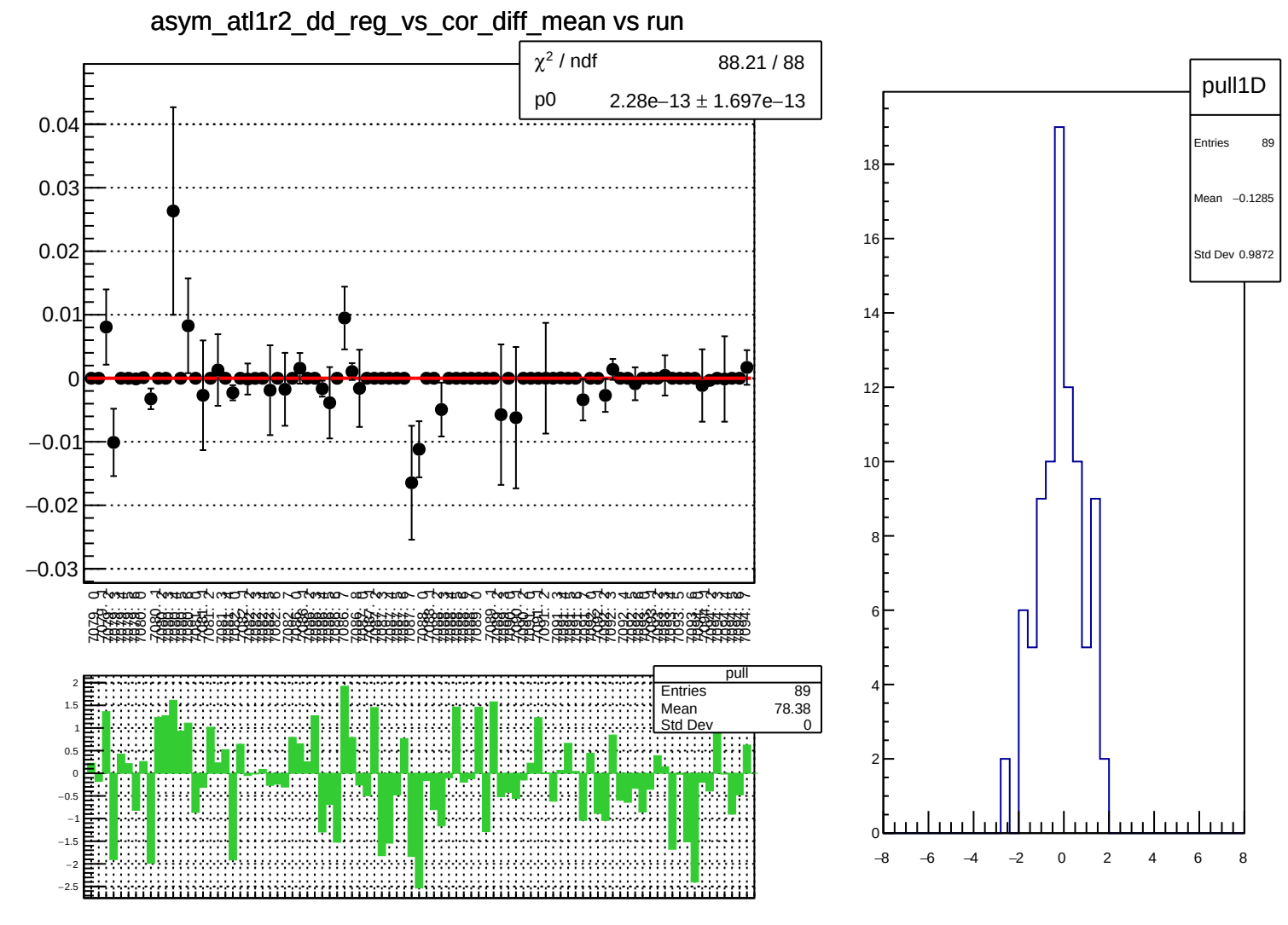

pull1D
Entries 89
Mean −0.003692
Std Dev 0.8748
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

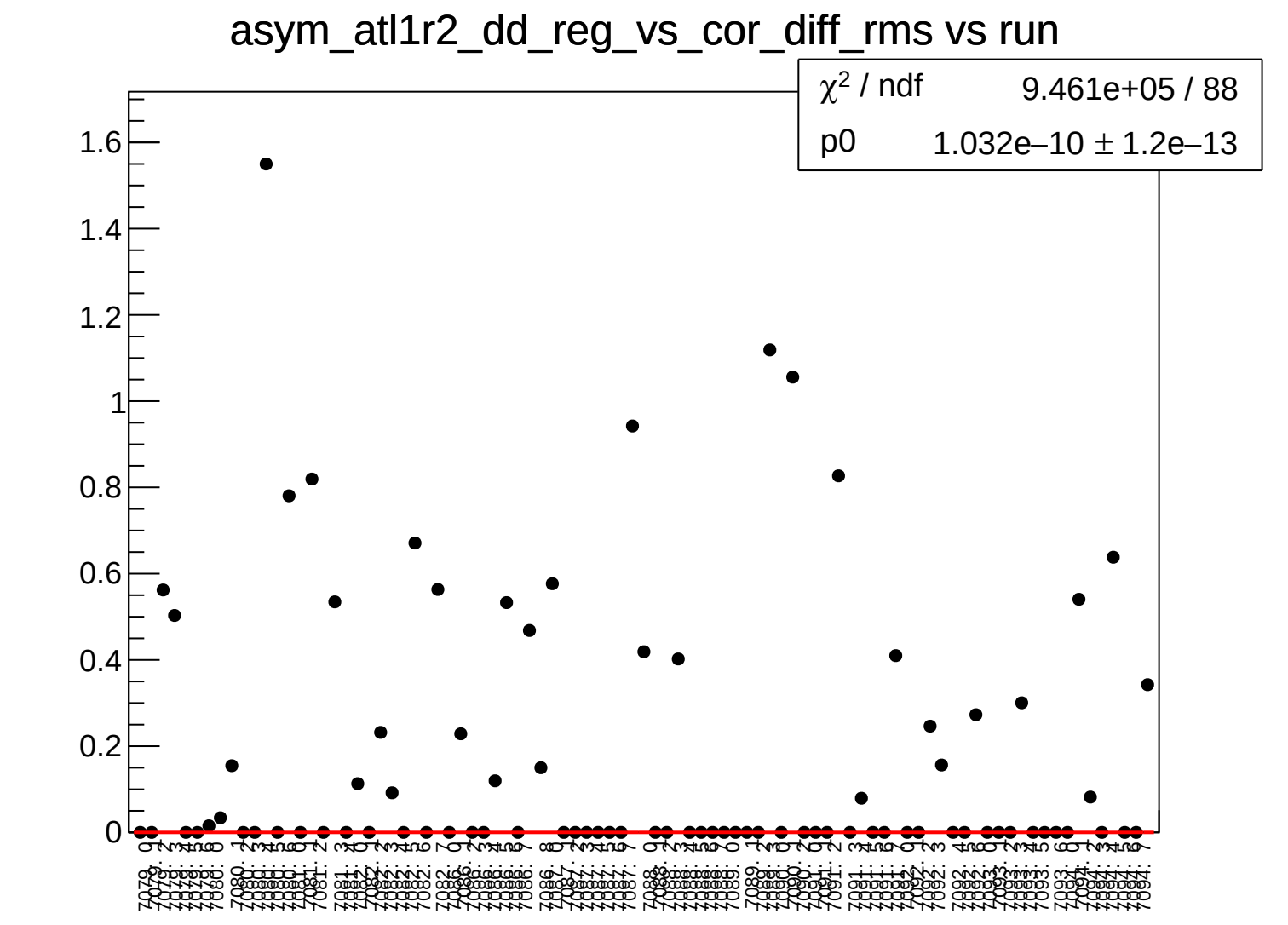

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 9737 / 88
p0 5104 ± 3.942
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

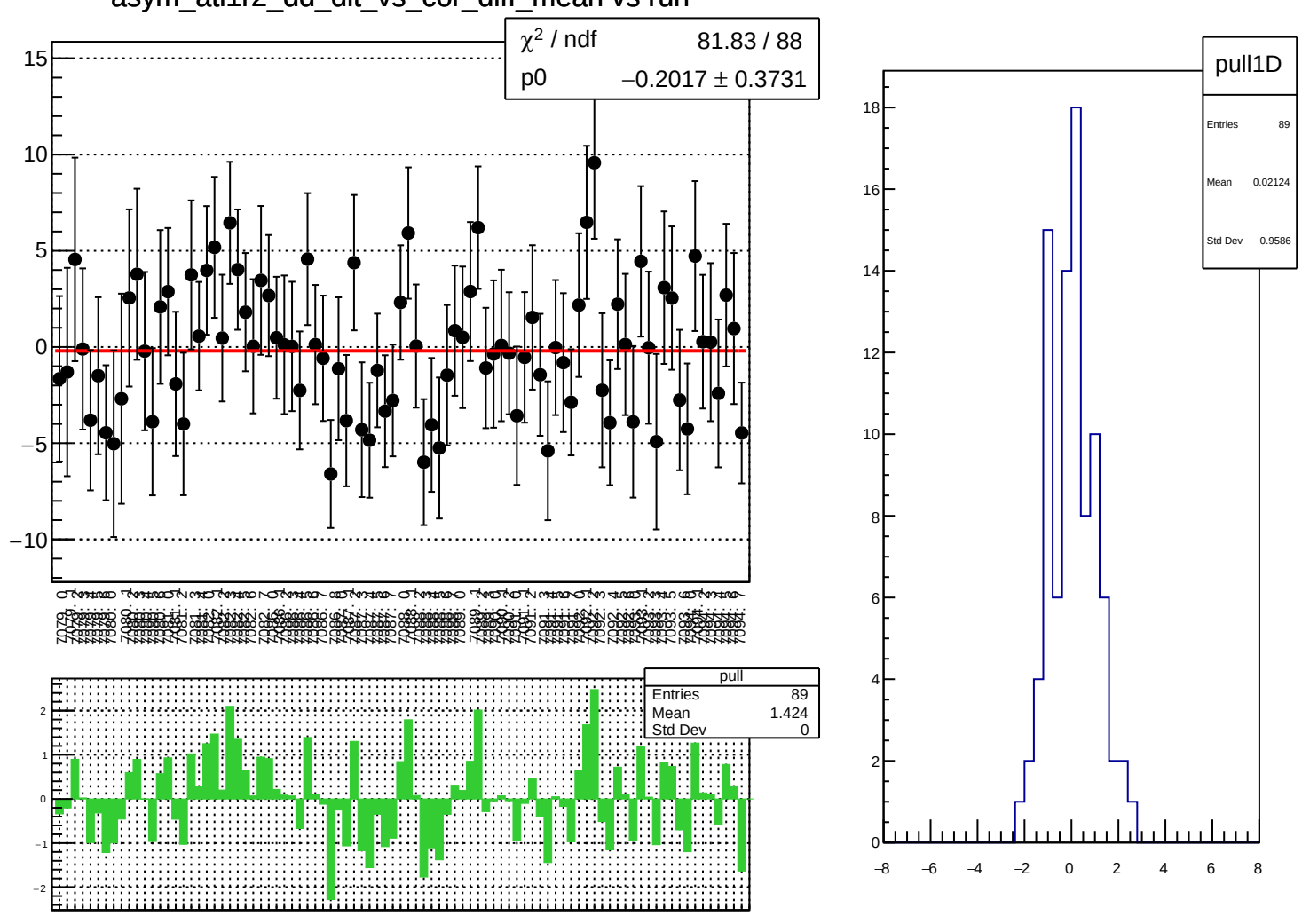

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 72.13 / 88
p0 1091 ± 5595
pull
Entries 89
Mean −238.2
Std Dev 0

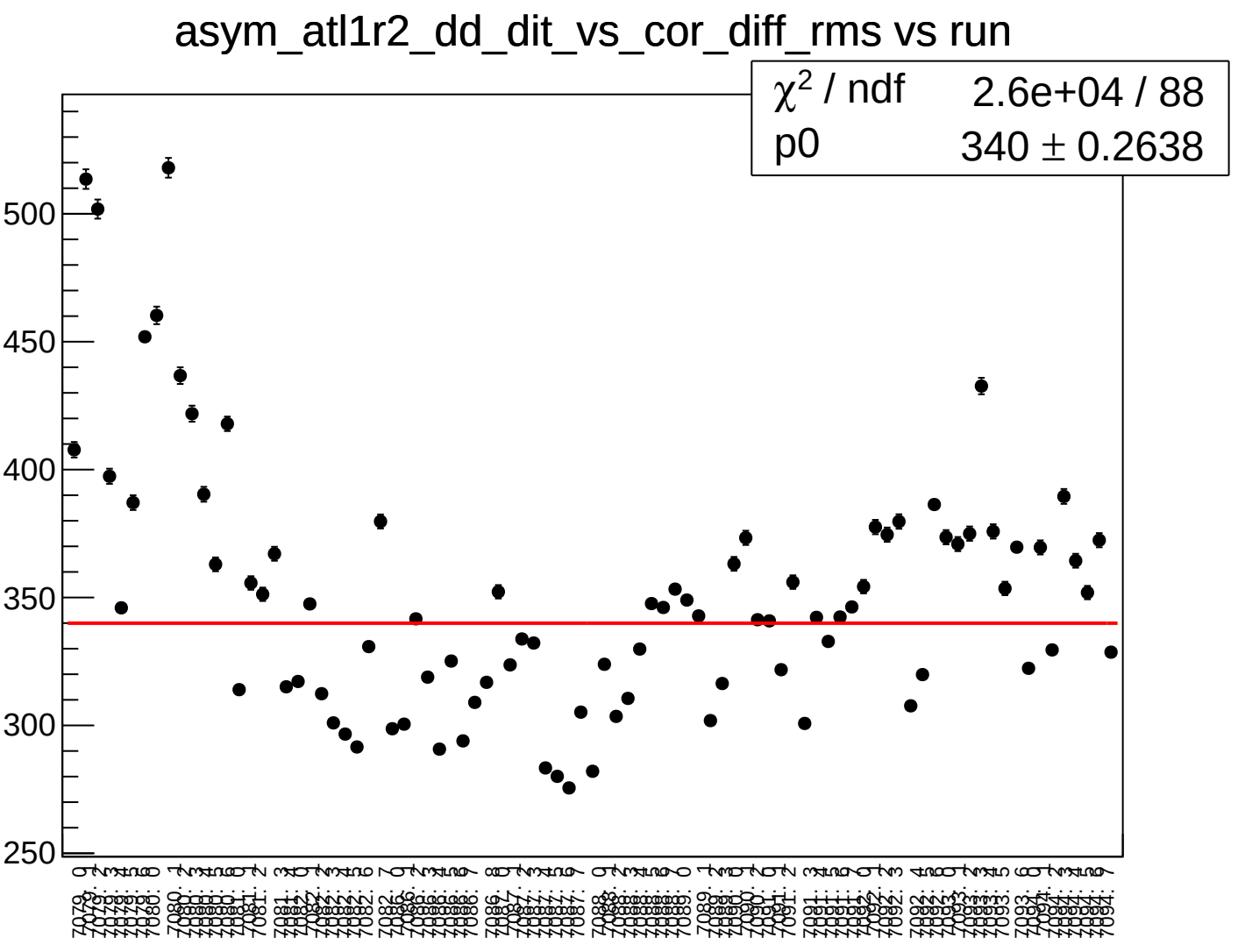

pull1D
Entries 89
Mean 0.004452
Std Dev 0.9002

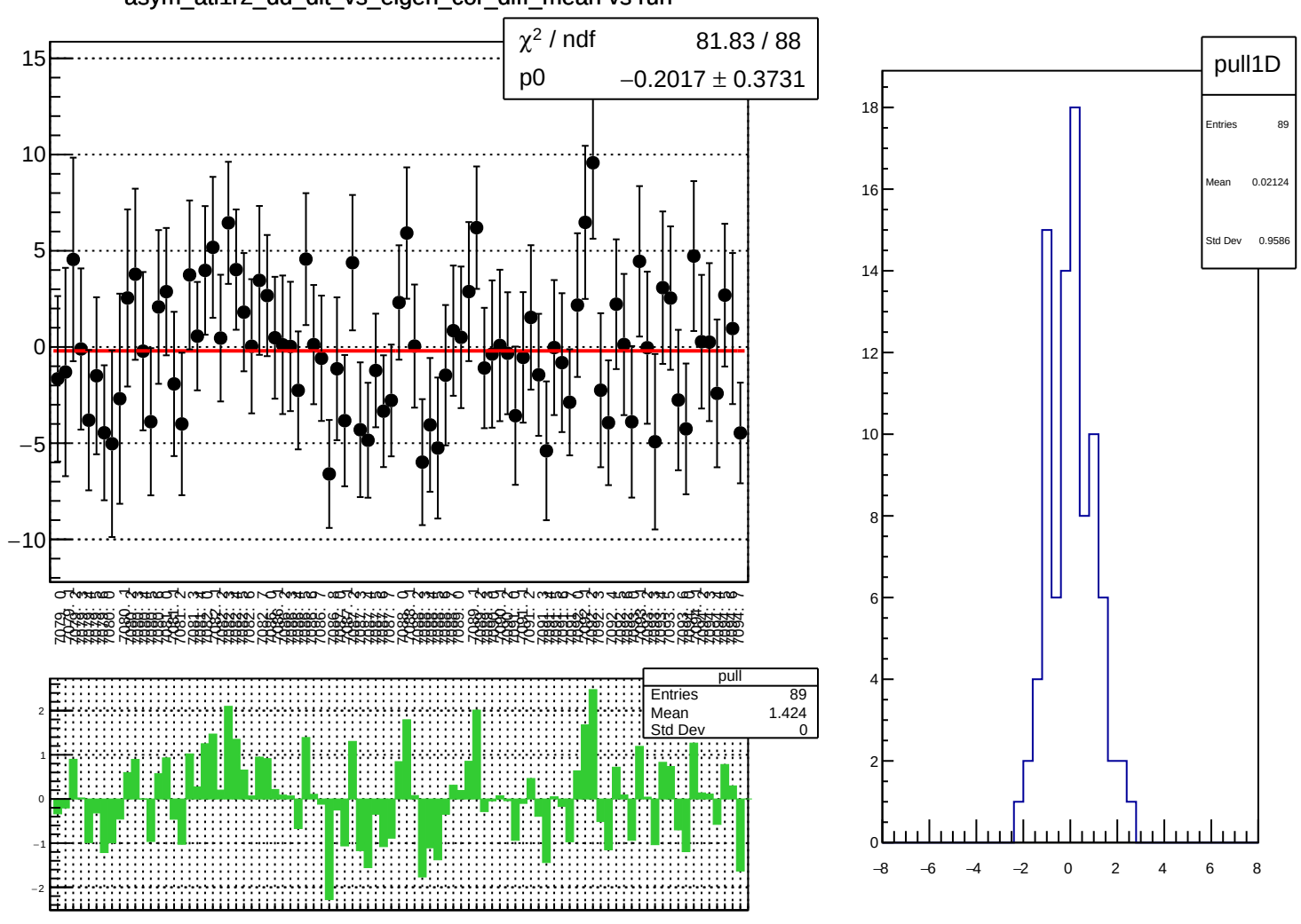

asym_atl1r2_dd_rms vs run
χ² / ndf 7552 / 88
p0 5126 ± 3.956
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

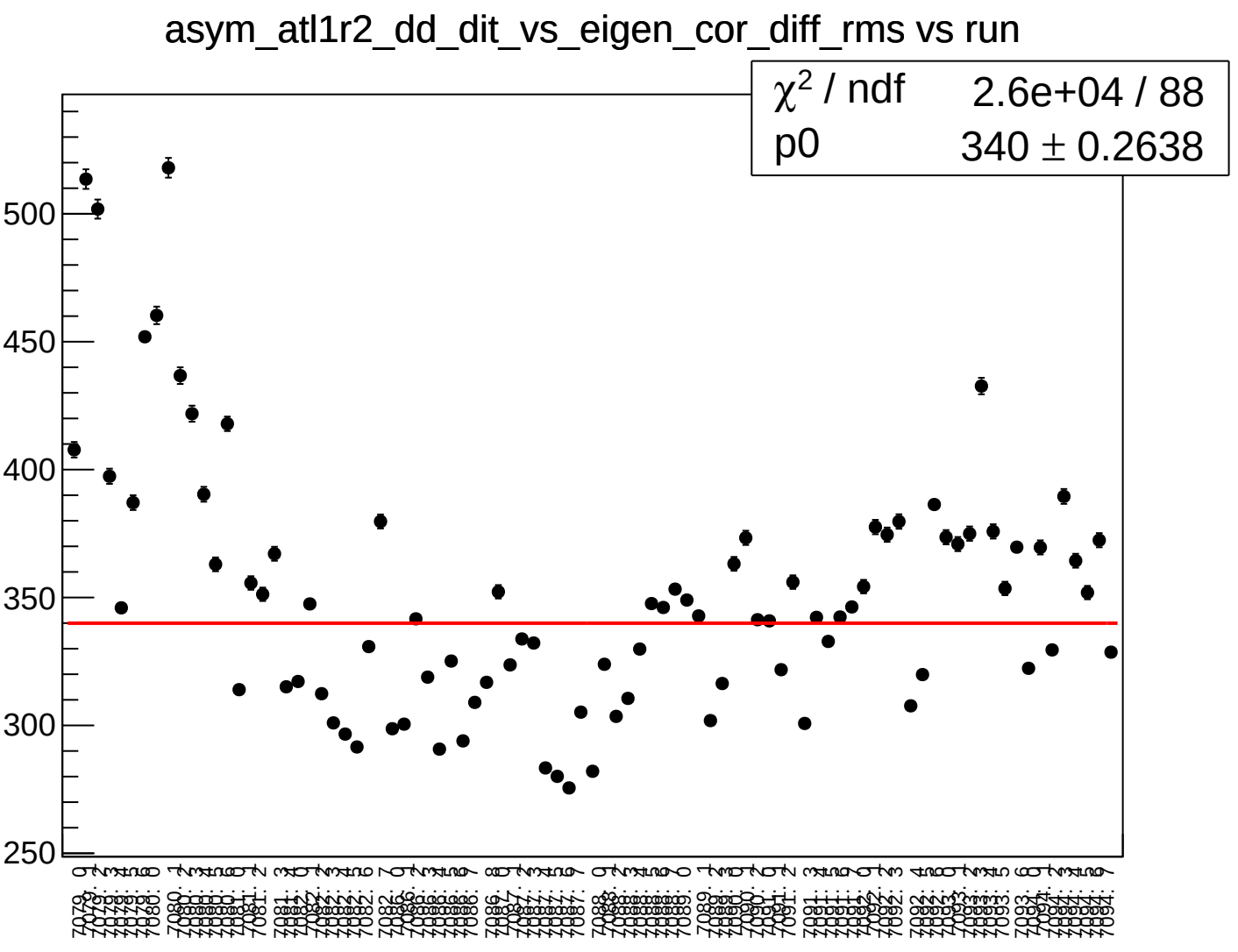

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.21 / 88
p0 2.28e−13 ± 1.697e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 78.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.1285
Std Dev 0.9872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

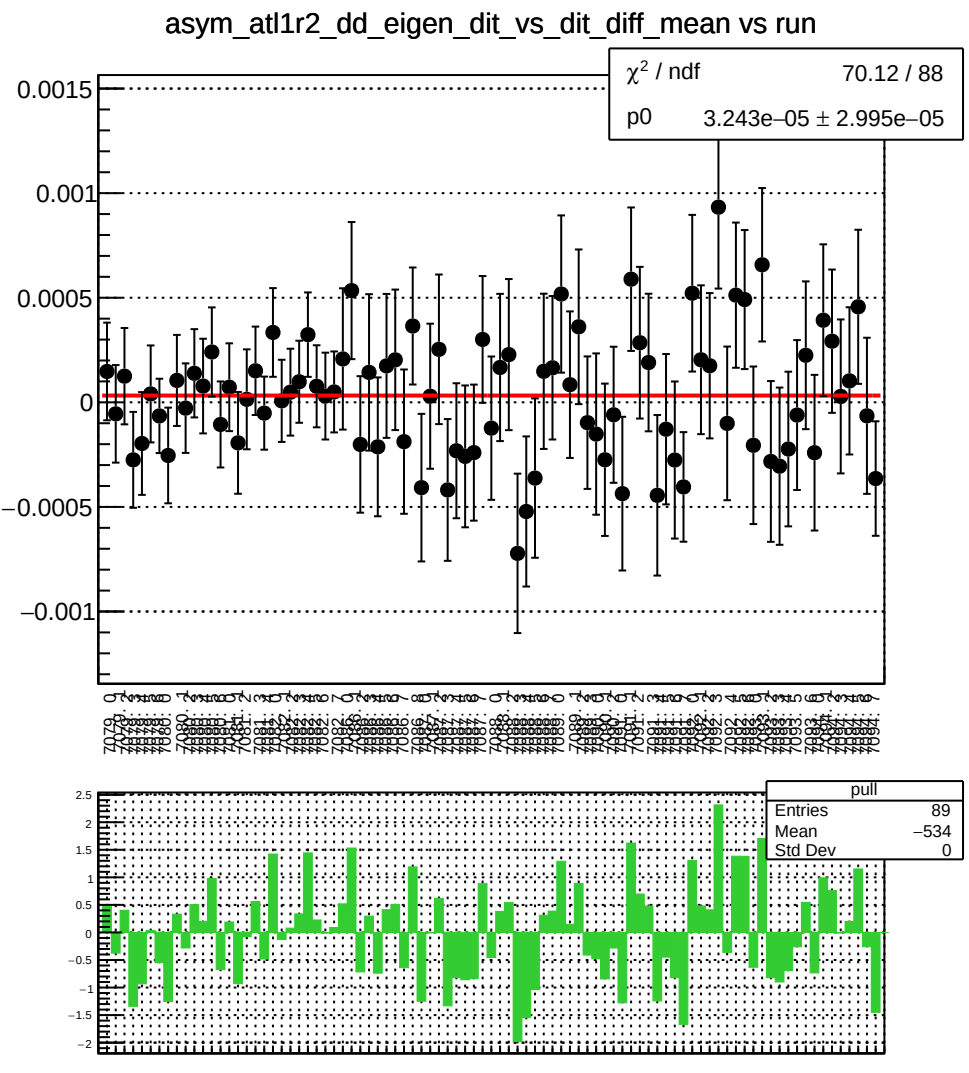

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.461e+05 / 88
p0 1.032e−10 ± 1.2e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

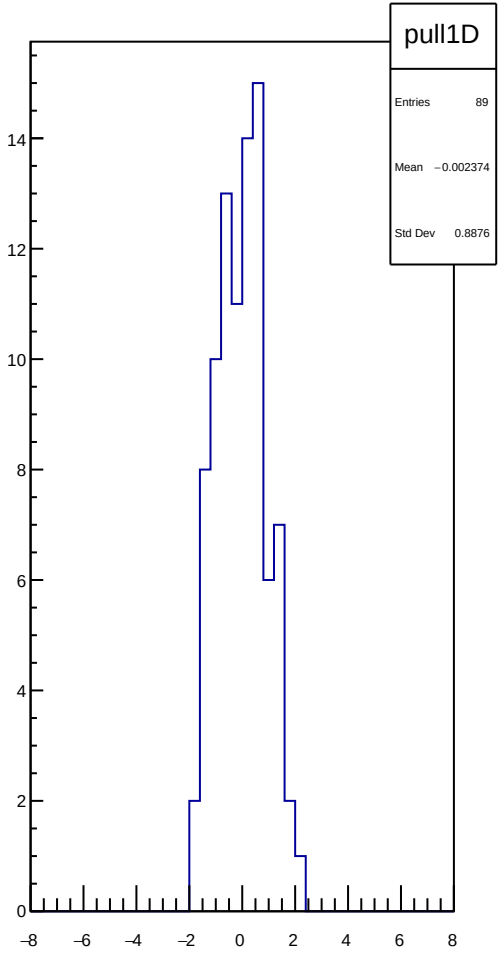

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.83 / 88
p0 −0.2017 ± 0.3731
pull
Entries 89
Mean 1.424
Std Dev 0
pull1D
Entries 89
Mean 0.02124
Std Dev 0.9586

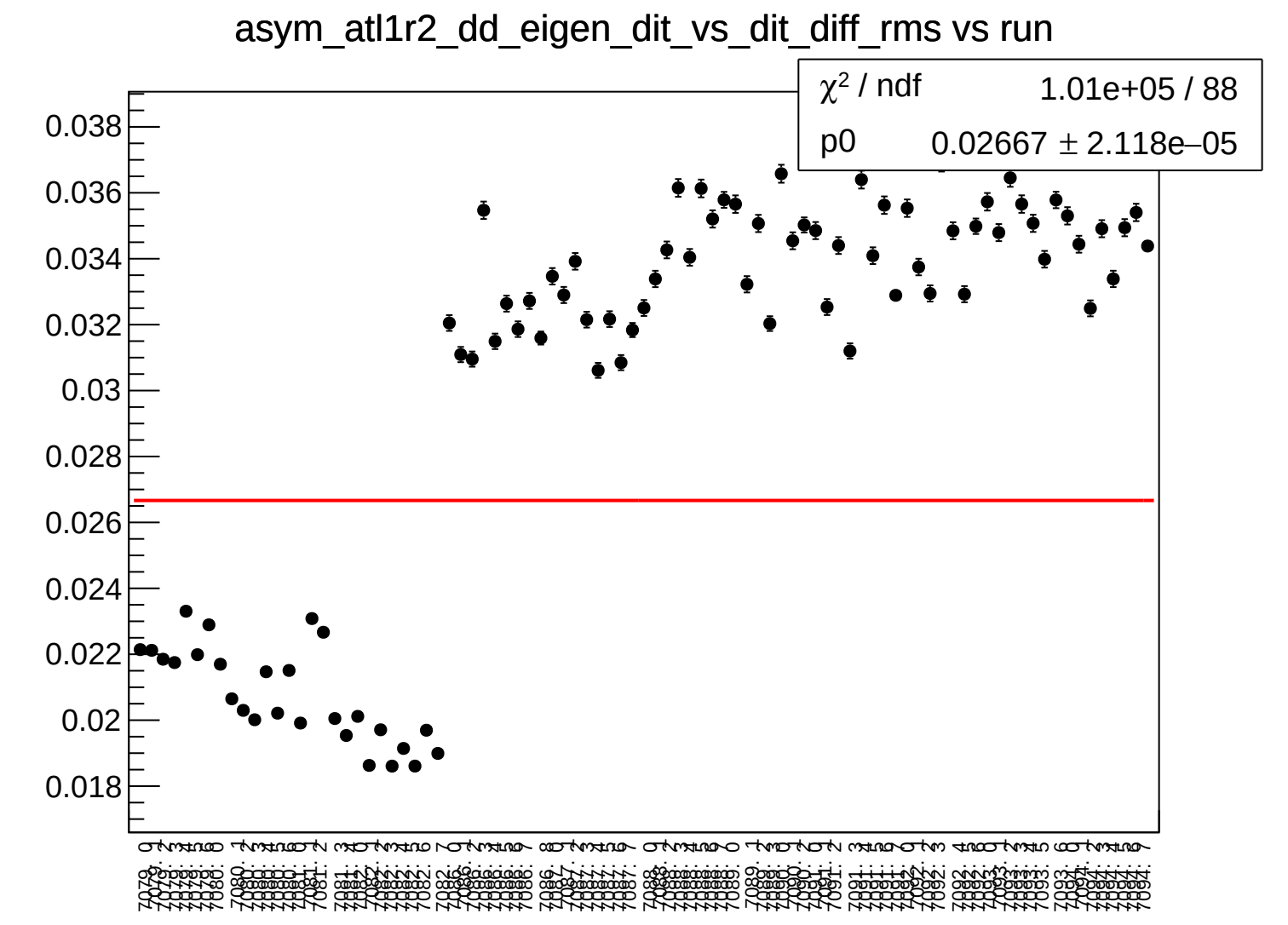

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.6e+04 / 88
p0 340 ± 0.2638
500
450
400
350
300
250

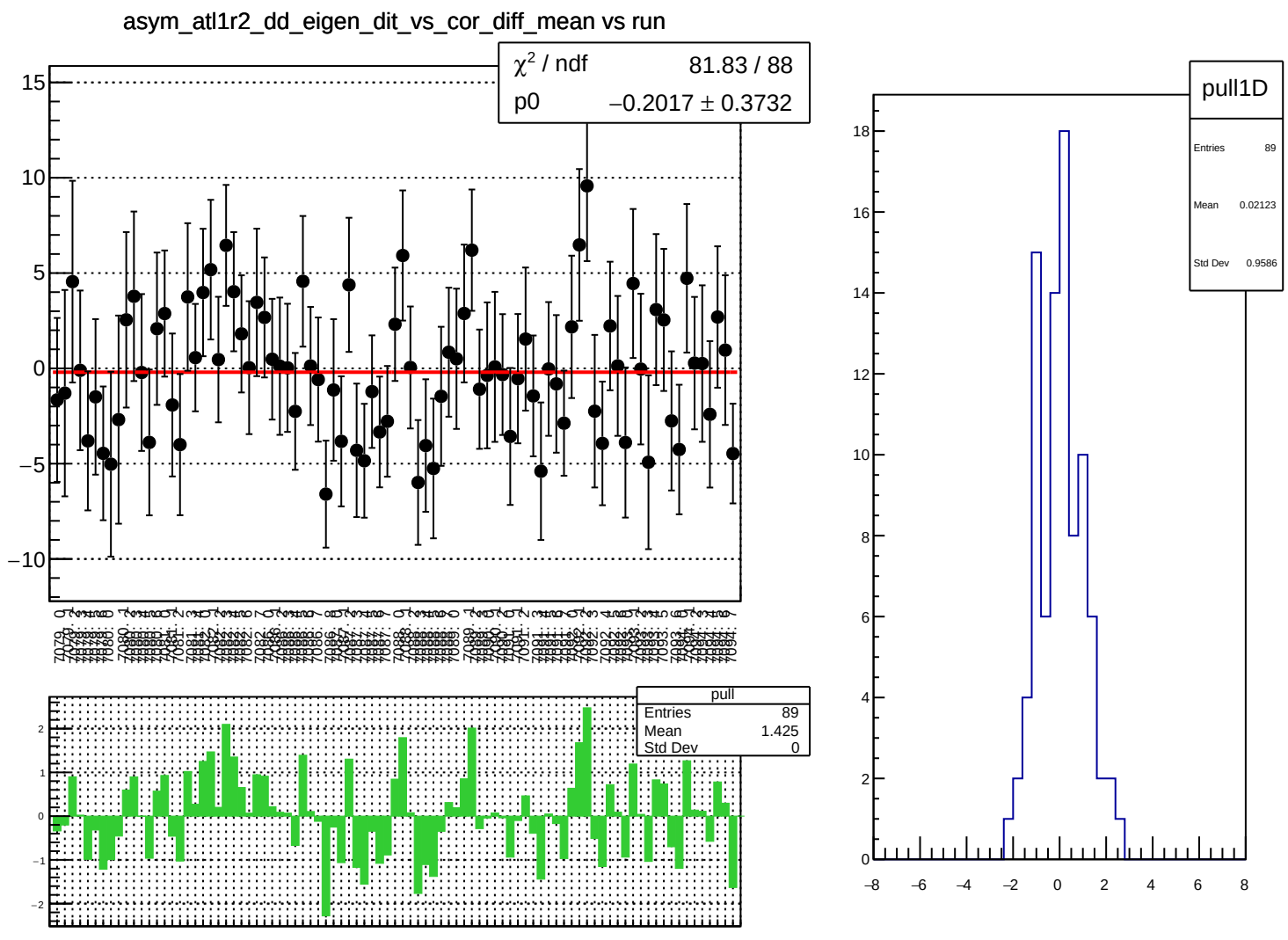

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.83 / 88
p0 −0.2017 ± 0.3731
pull
Entries 89
Mean 1.424
Std Dev 0
pull1D
Entries 89
Mean 0.02124
Std Dev 0.9586

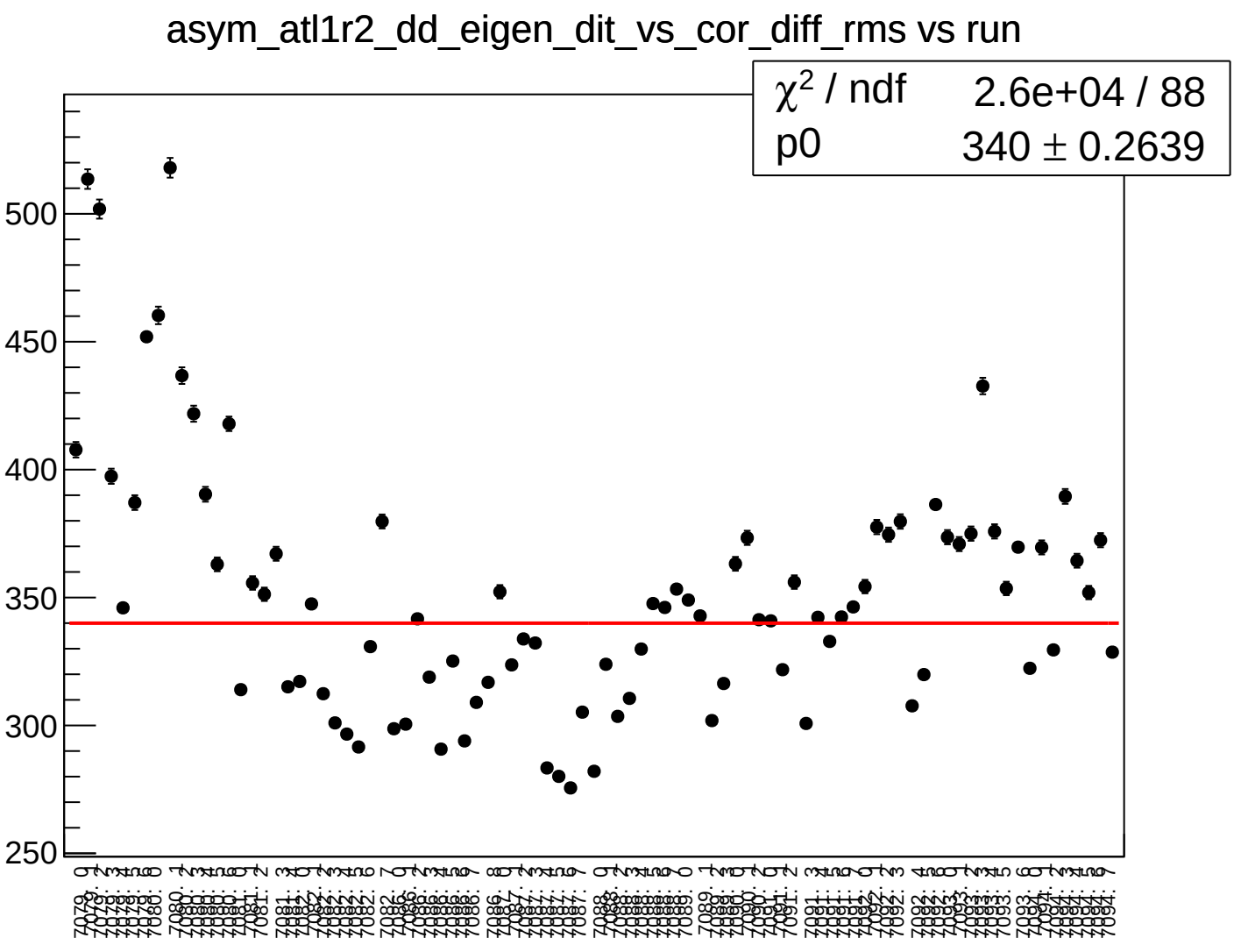

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.6e+04 / 88
p0 340 ± 0.2638
500
450
400
350
300
250

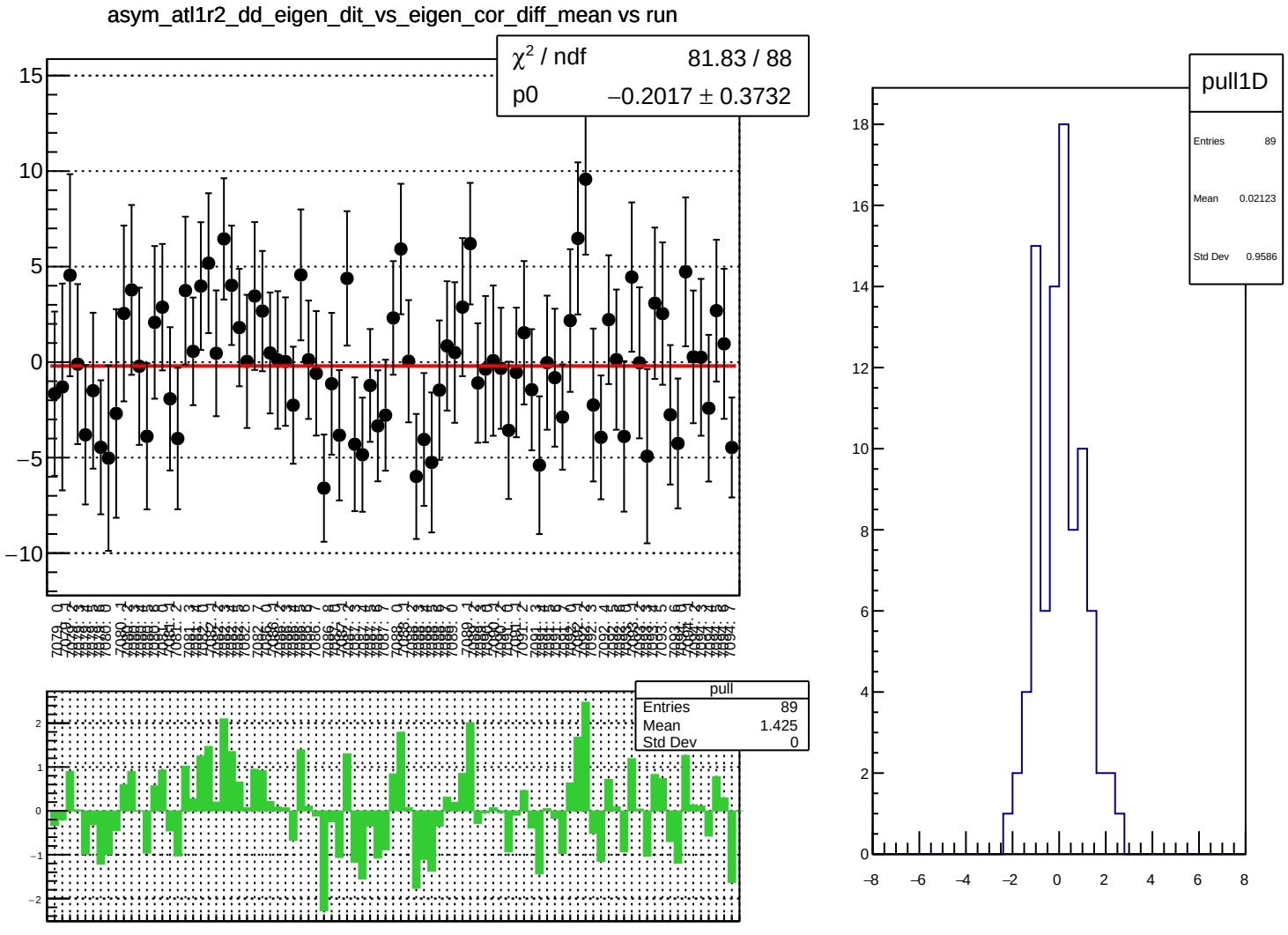

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.12 / 88
p0 3.243e−05 ± 2.995e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −534
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

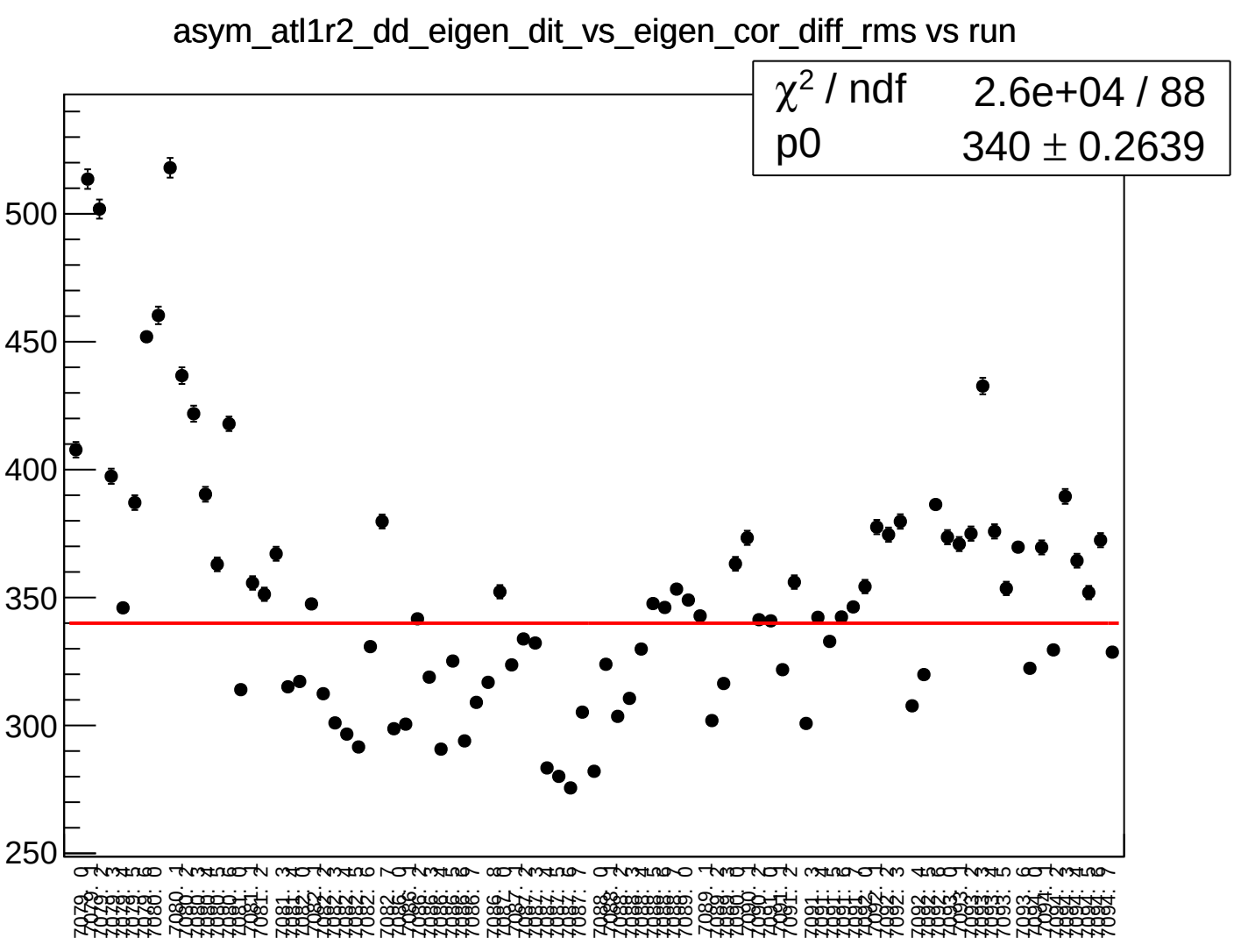

pull1D
Entries 89
Mean −0.002374
Std Dev 0.8876
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

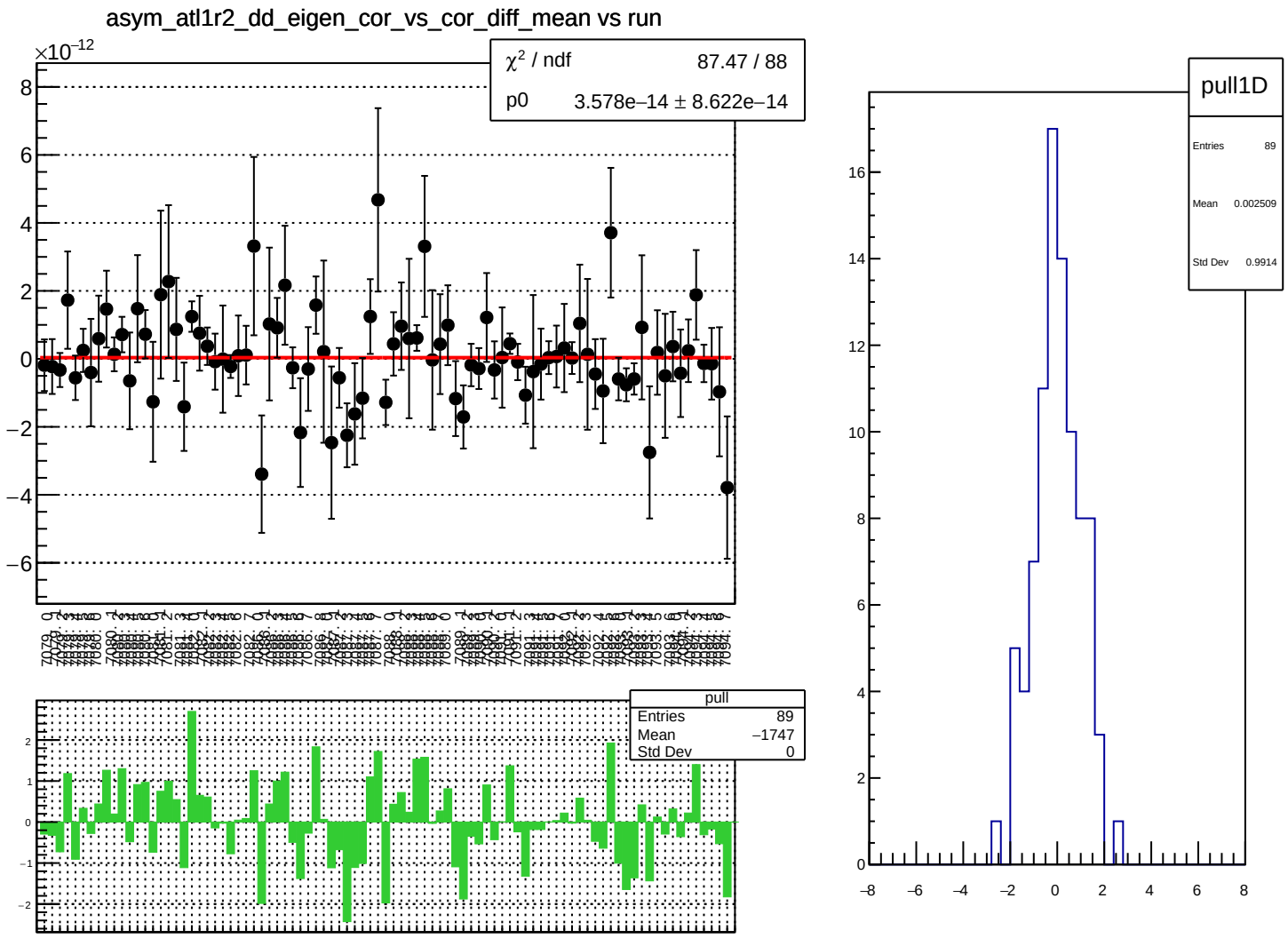

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.01e+05 / 88
p0 0.02667 ± 2.118e−05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

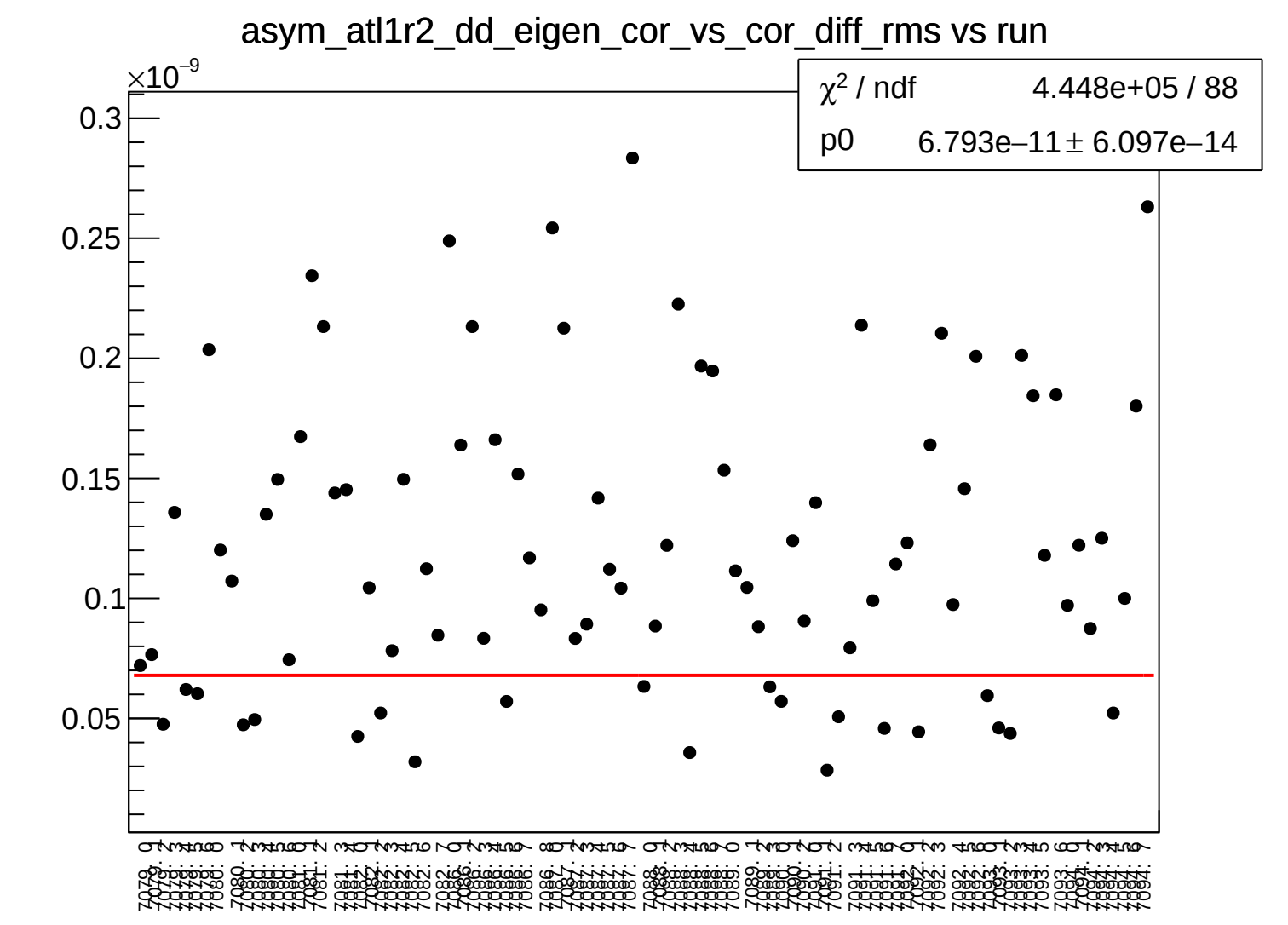

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.83 / 88
p0 −0.2017 ± 0.3732
15
10
5
0
−5
−10
pull
Entries 89
Mean 1.425
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02123
Std Dev 0.9586
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

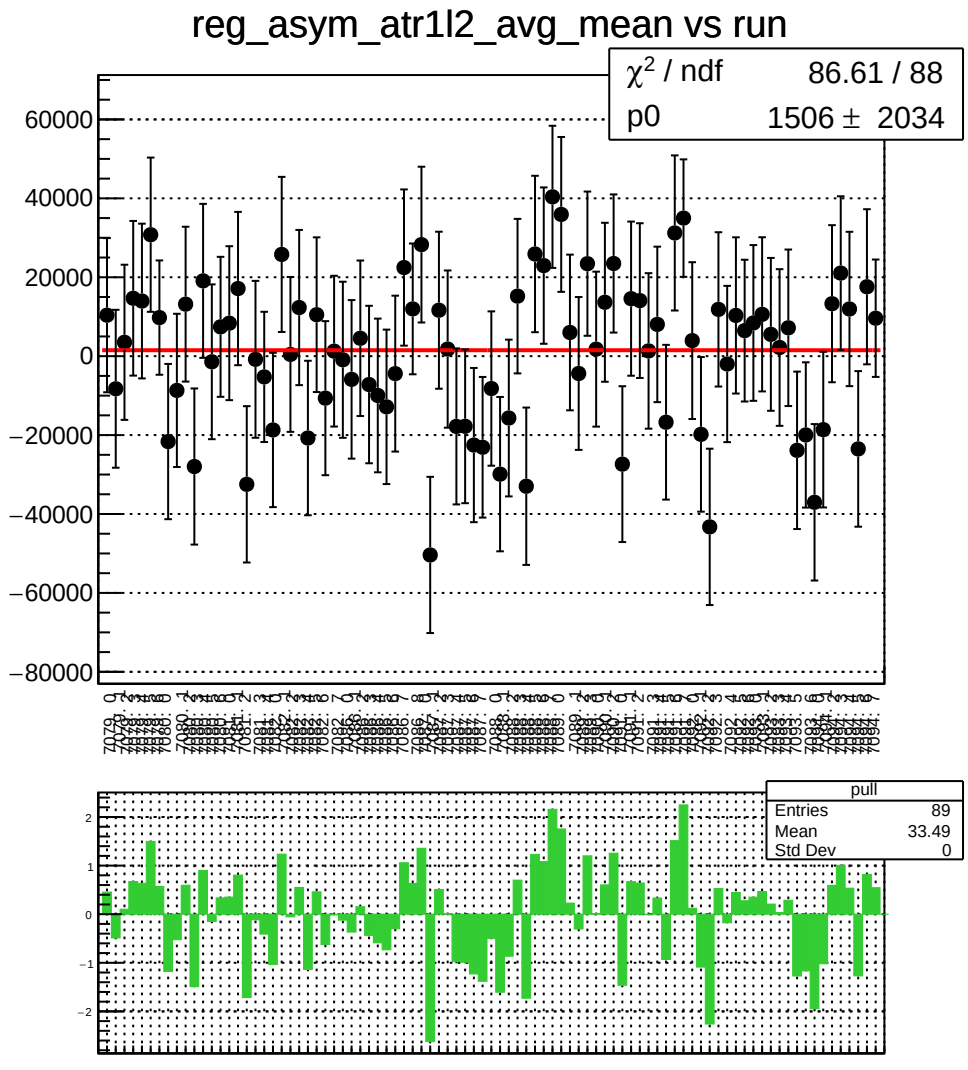

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.6e+04 / 88
p0 340 ± 0.2639
500
450
400
350
300
250

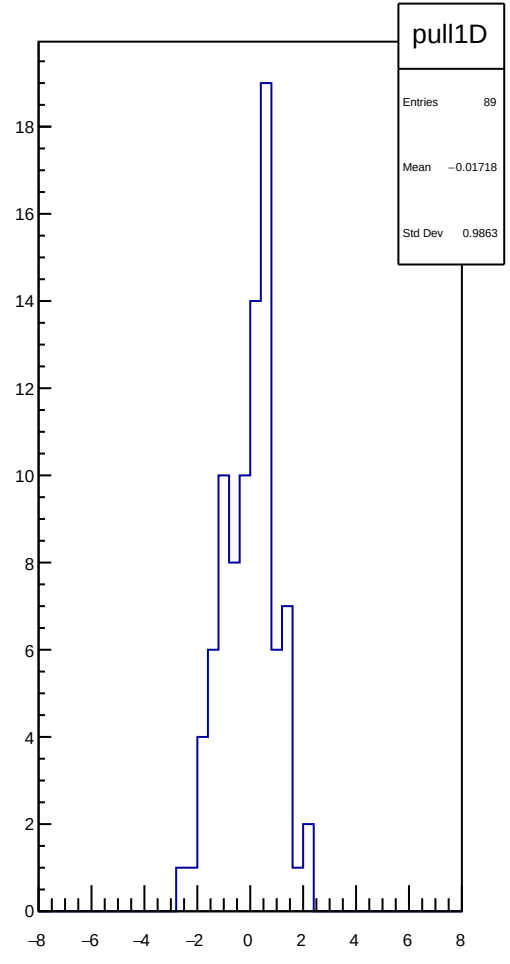

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.83 / 88
p0 −0.2017 ± 0.3732
pull
Entries 89
Mean 1.425
Std Dev 0
pull1D
Entries 89
Mean 0.02123
Std Dev 0.9586

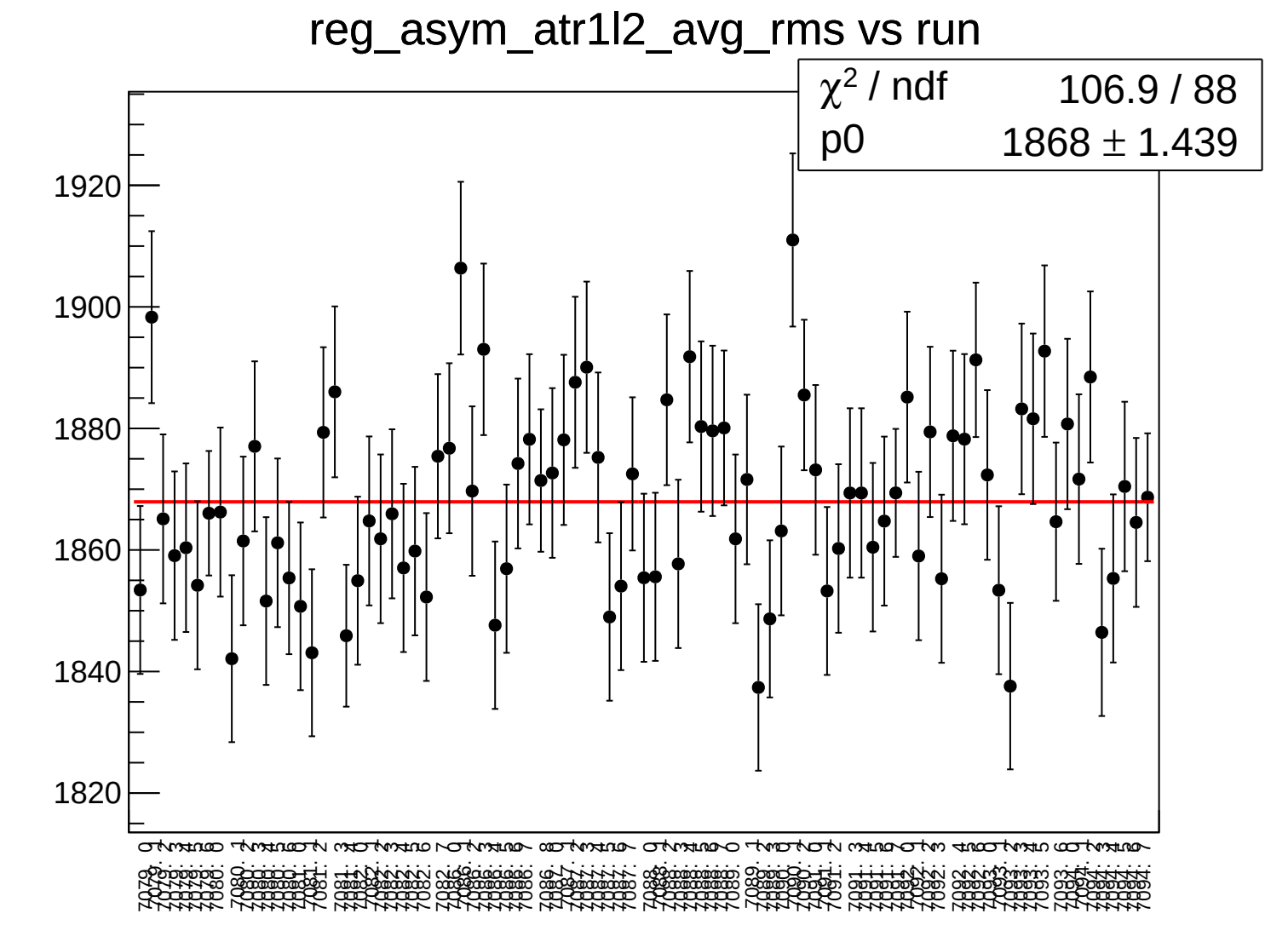

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.6e+04 / 88
p0 340 ± 0.2639
500
450
400
350
300
250

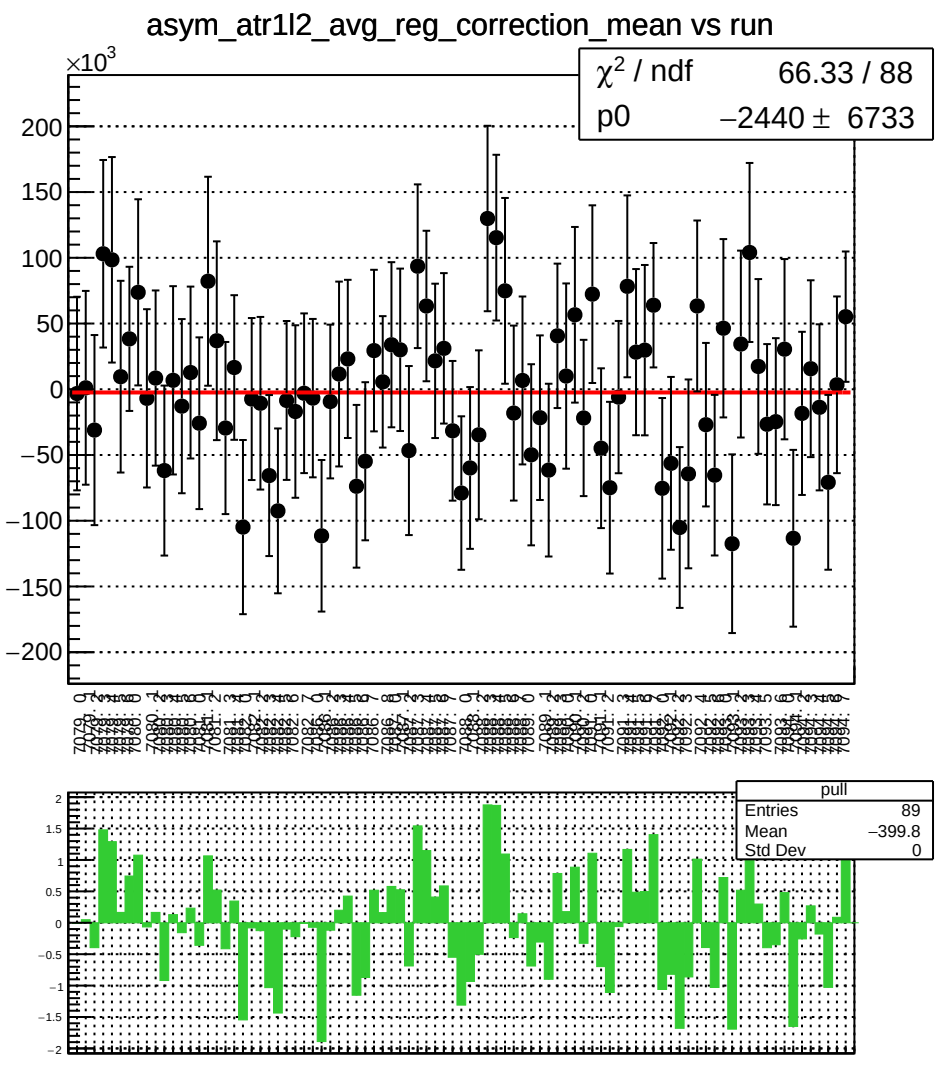

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.47 / 88
p0 3.578e−14 ± 8.622e−14
pull
Entries 89
Mean −1747
Std Dev 0
pull1D
Entries 89
Mean 0.002509
Std Dev 0.9914

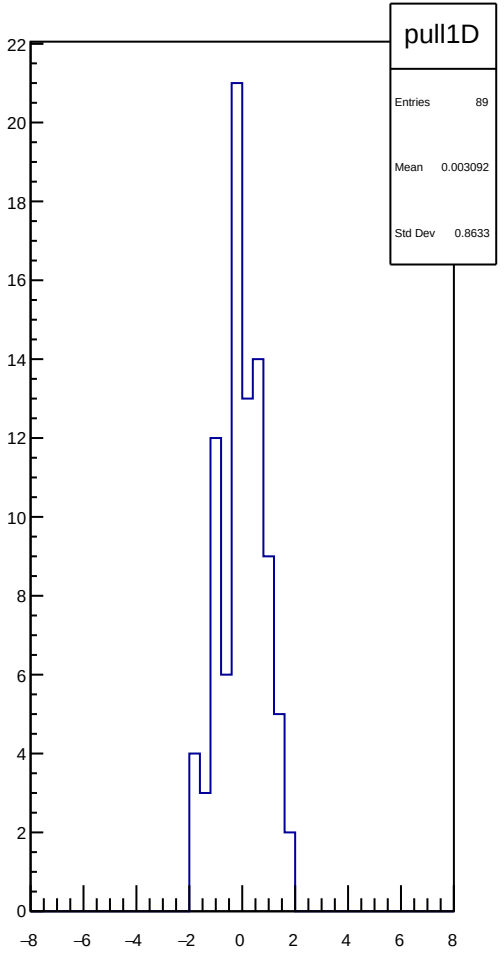

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.448e+05 / 88
p0 6.793e−11 ± 6.097e−14
0.3
0.25
0.2
0.15
0.1
0.05

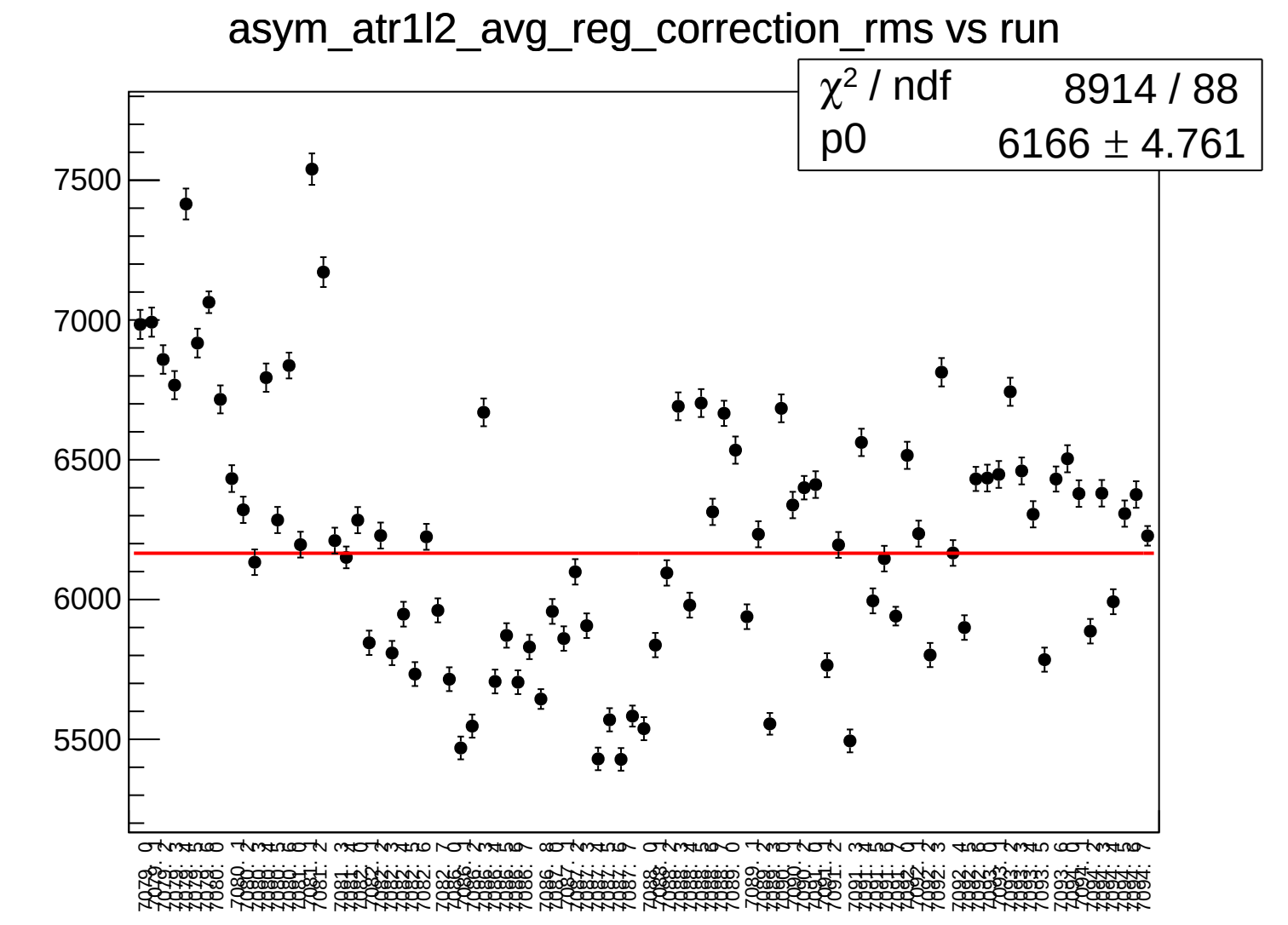

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 86.61 / 88
p0 1506 ± 2034
pull
Entries 89
Mean 33.49
Std Dev 0

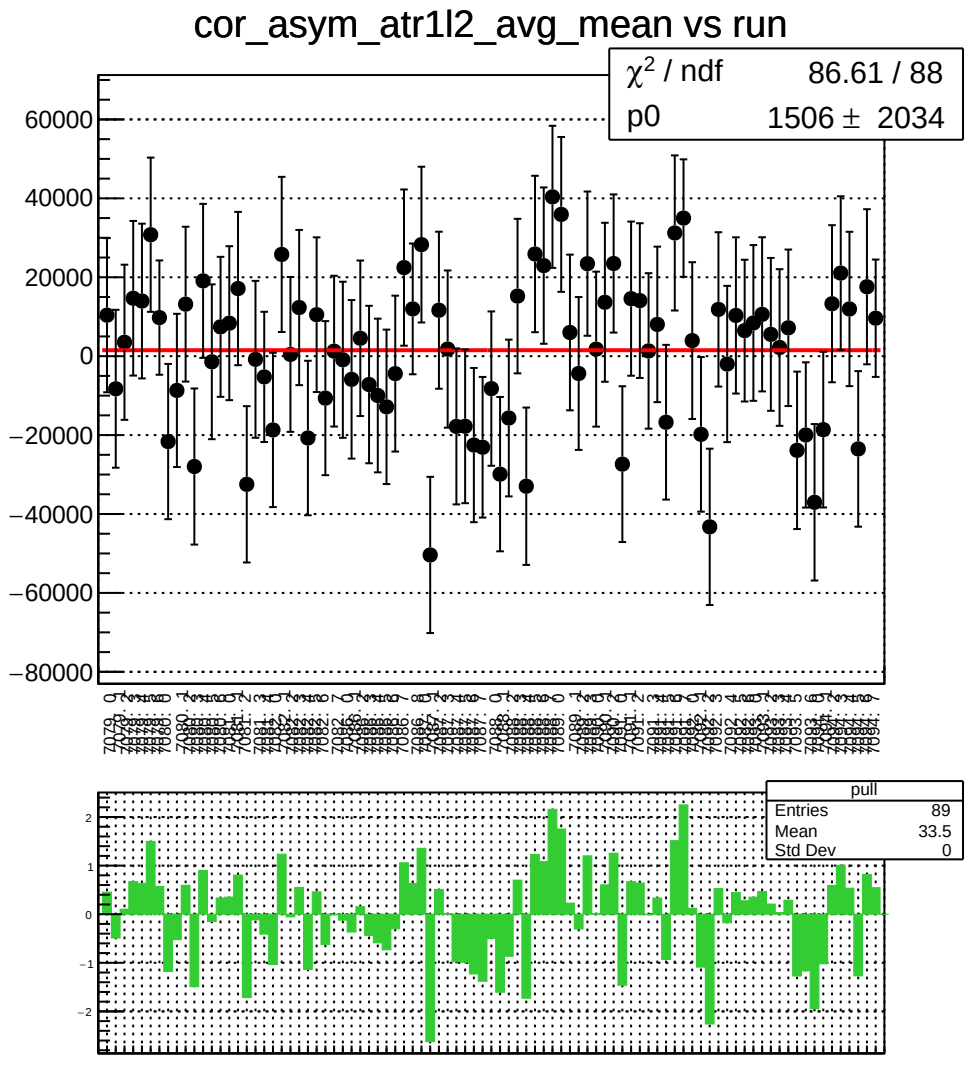

pull1D
Entries 89
Mean −0.01718
Std Dev 0.9863

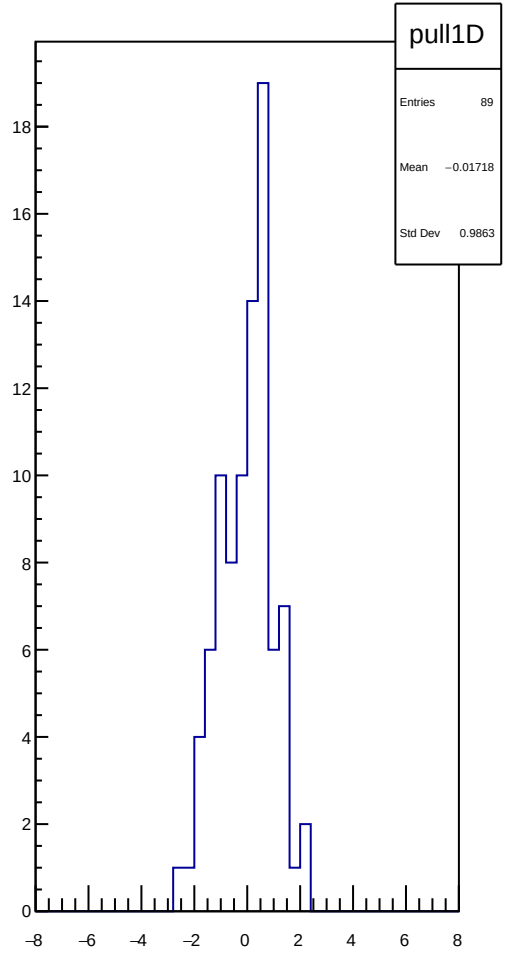

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 106.9 / 88
p0 1868 ± 1.439
1920
1900
1880
1860
1840
1820

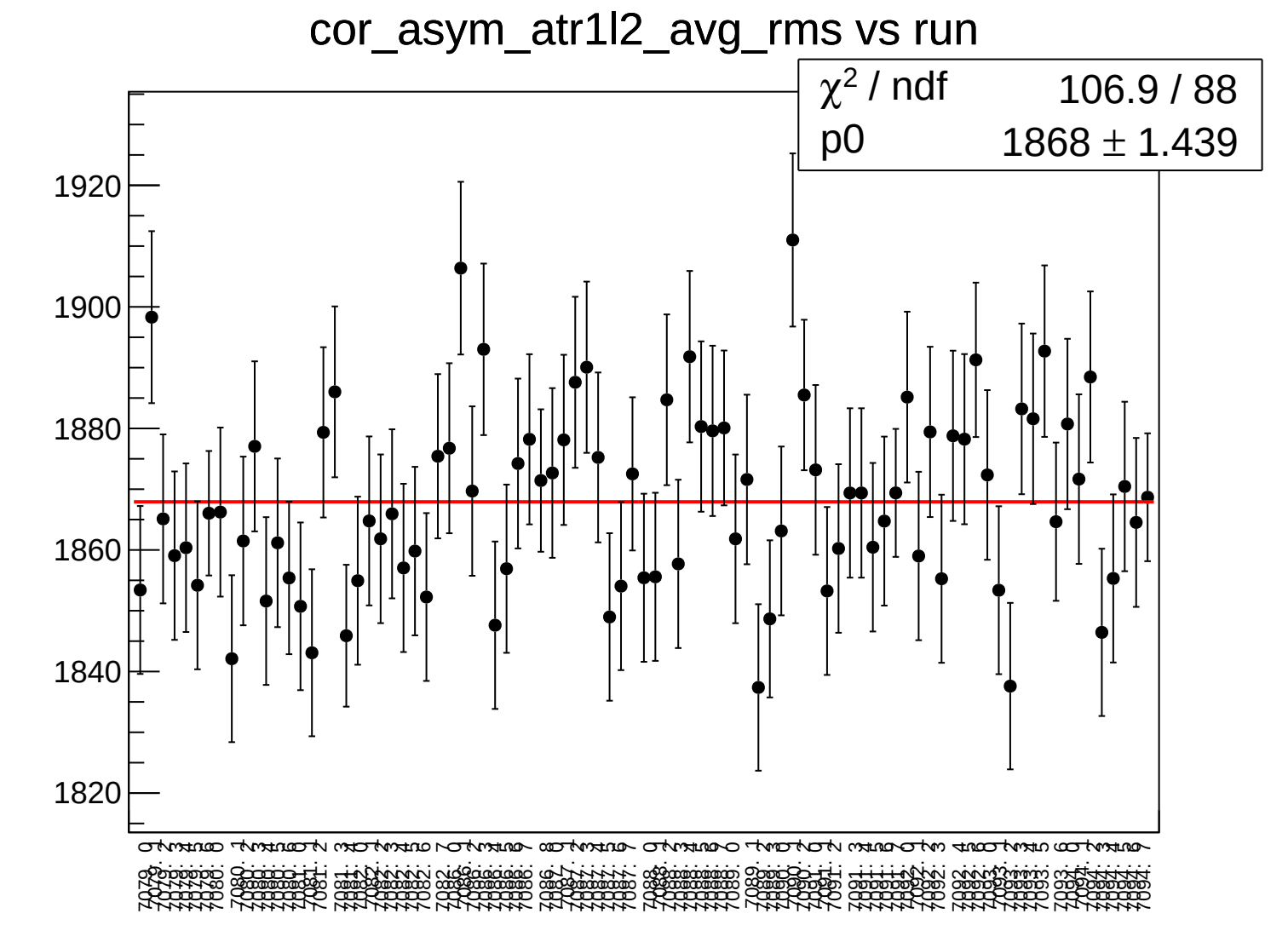

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 66.33 / 88
p0 −2440 ± 6733
pull
Entries 89
Mean −399.8
Std Dev 0

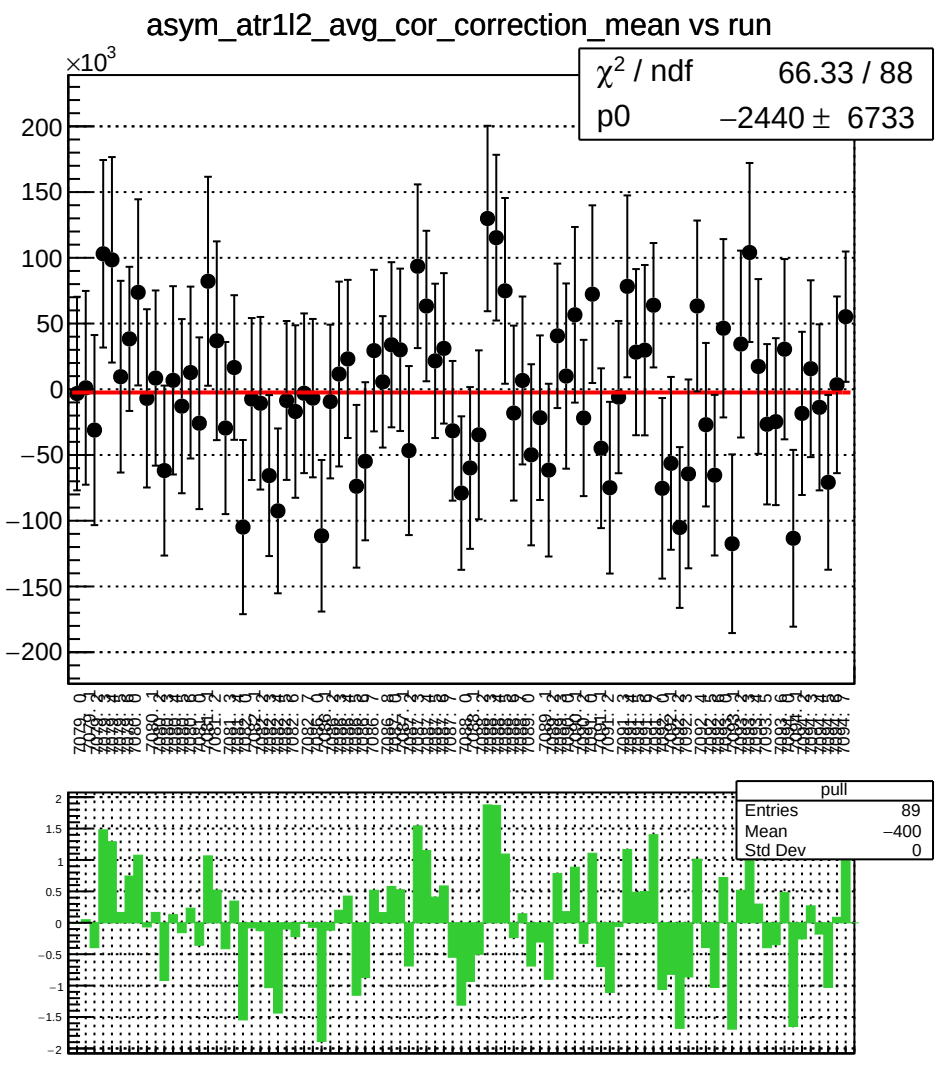

pull1D
Entries 89
Mean 0.003092
Std Dev 0.8633

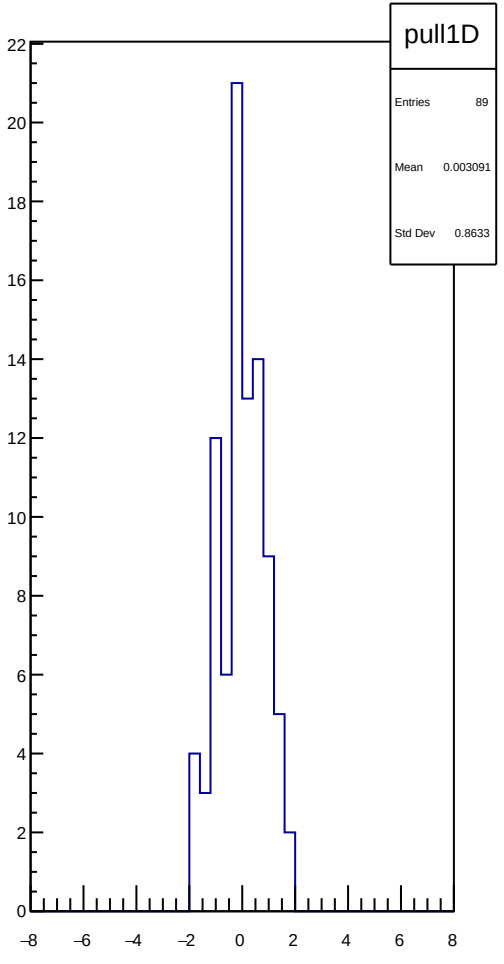

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 8914 / 88
p0 6166 ± 4.761
7500
7000
6500
6000
5500

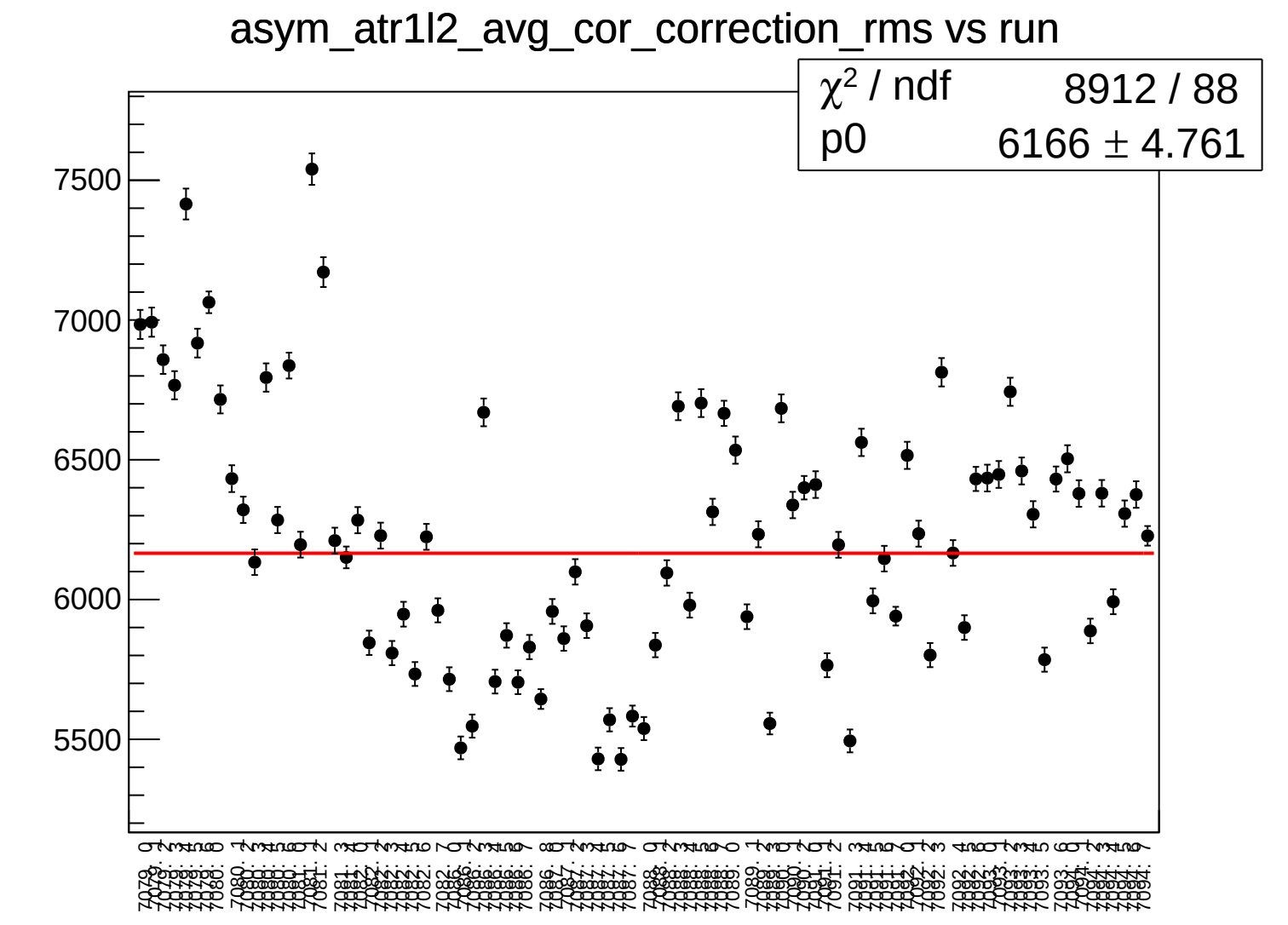

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 86.61 / 88
p0 1506 ± 2034
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 33.5
Std Dev 0
2
1
0
−1
−2

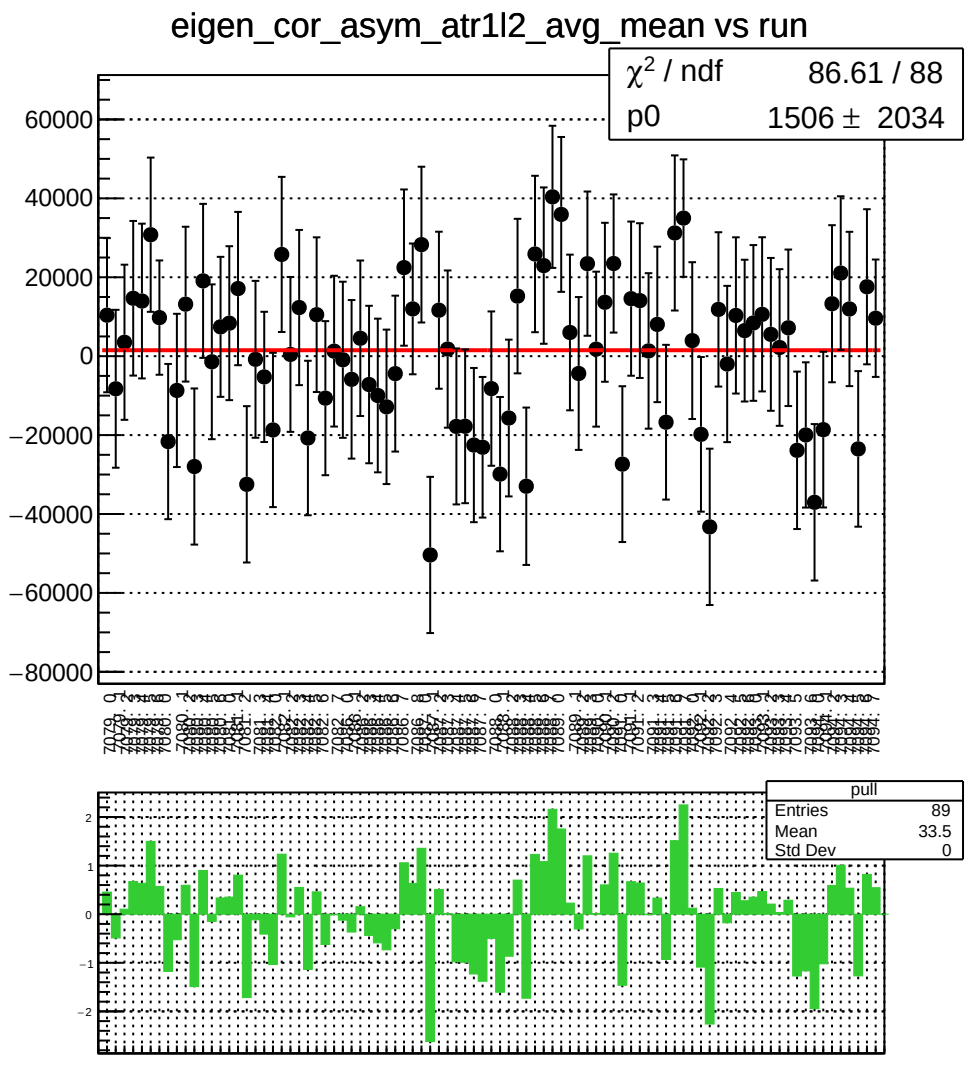

pull1D
Entries 89
Mean −0.01718
Std Dev 0.9863
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

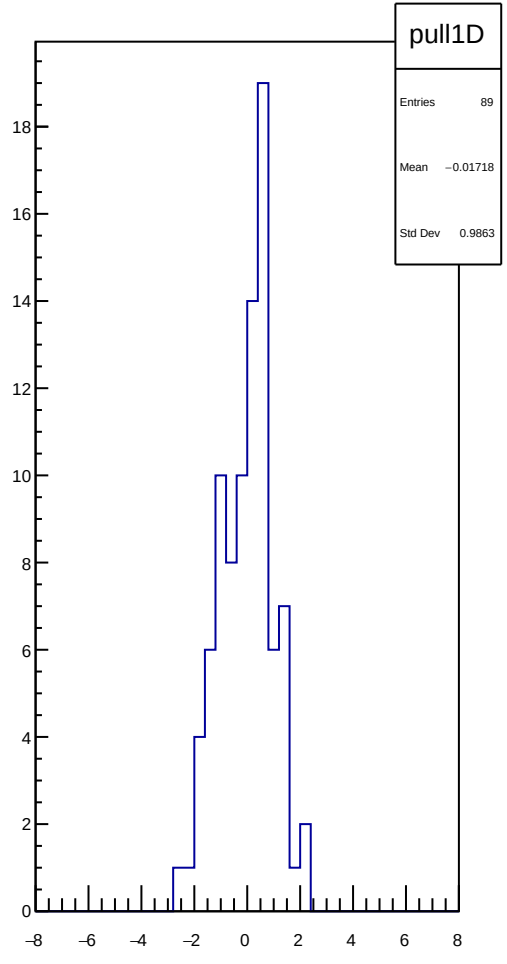

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 106.9 / 88
p0 1868 ± 1.439
1920
1900
1880
1860
1840
1820

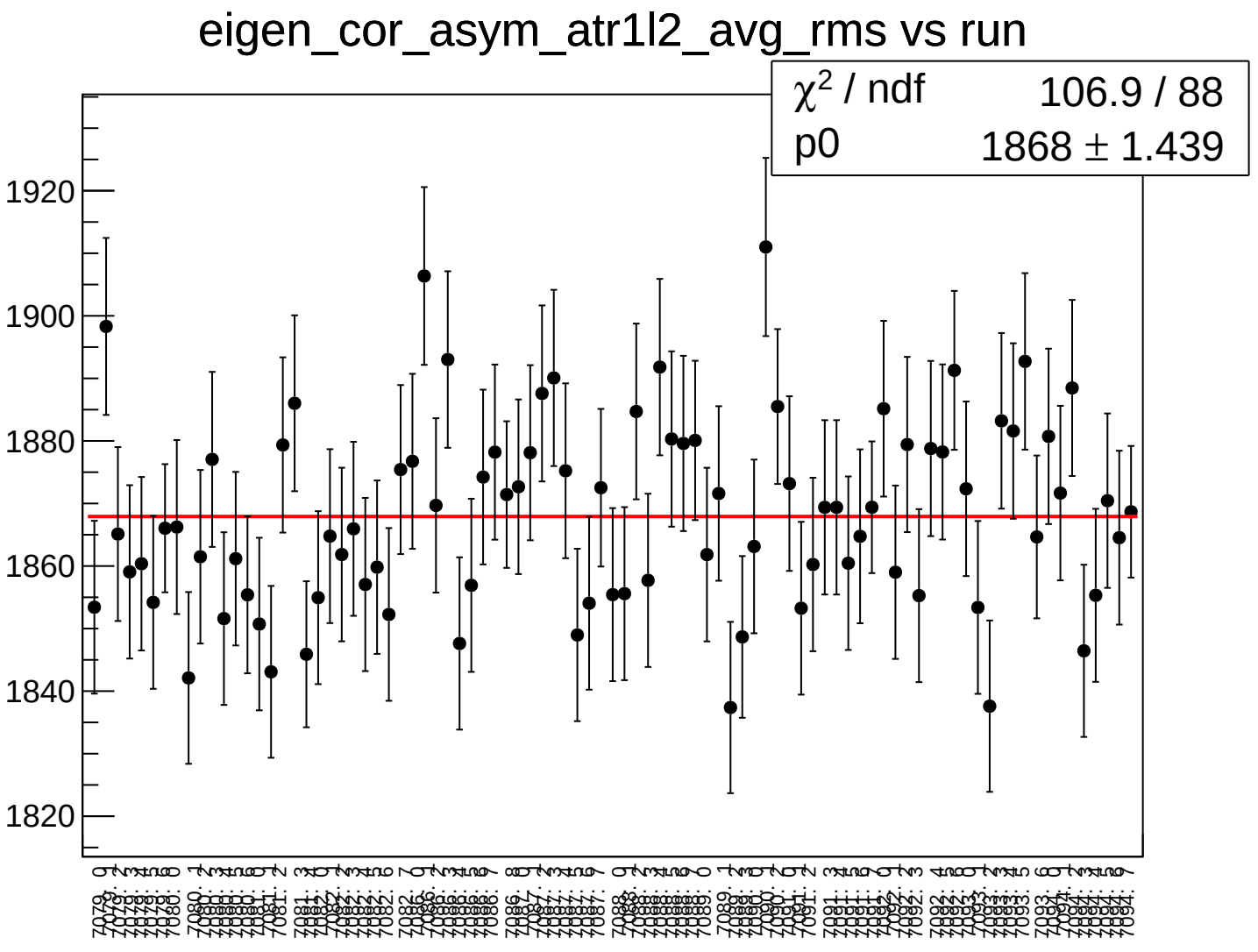

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 66.33 / 88
p0 −2440 ± 6733
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −400
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

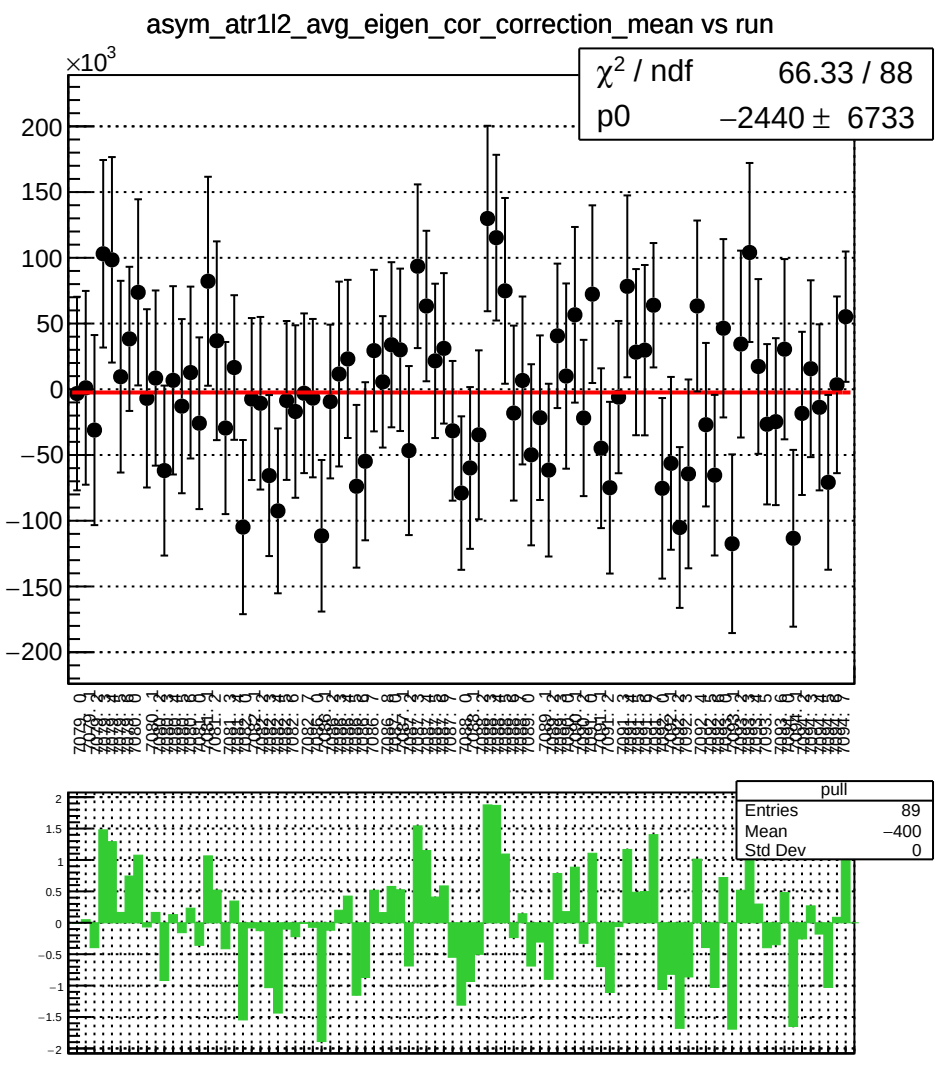

pull1D
Entries 89
Mean 0.003091
Std Dev 0.8633
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

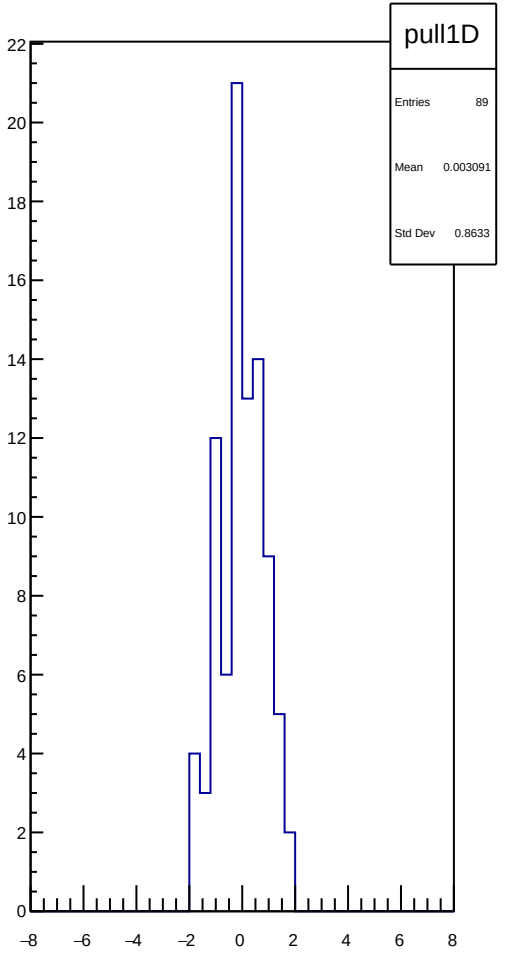

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 8912 / 88
p0 6166 ± 4.761
7500
7000
6500
6000
5500

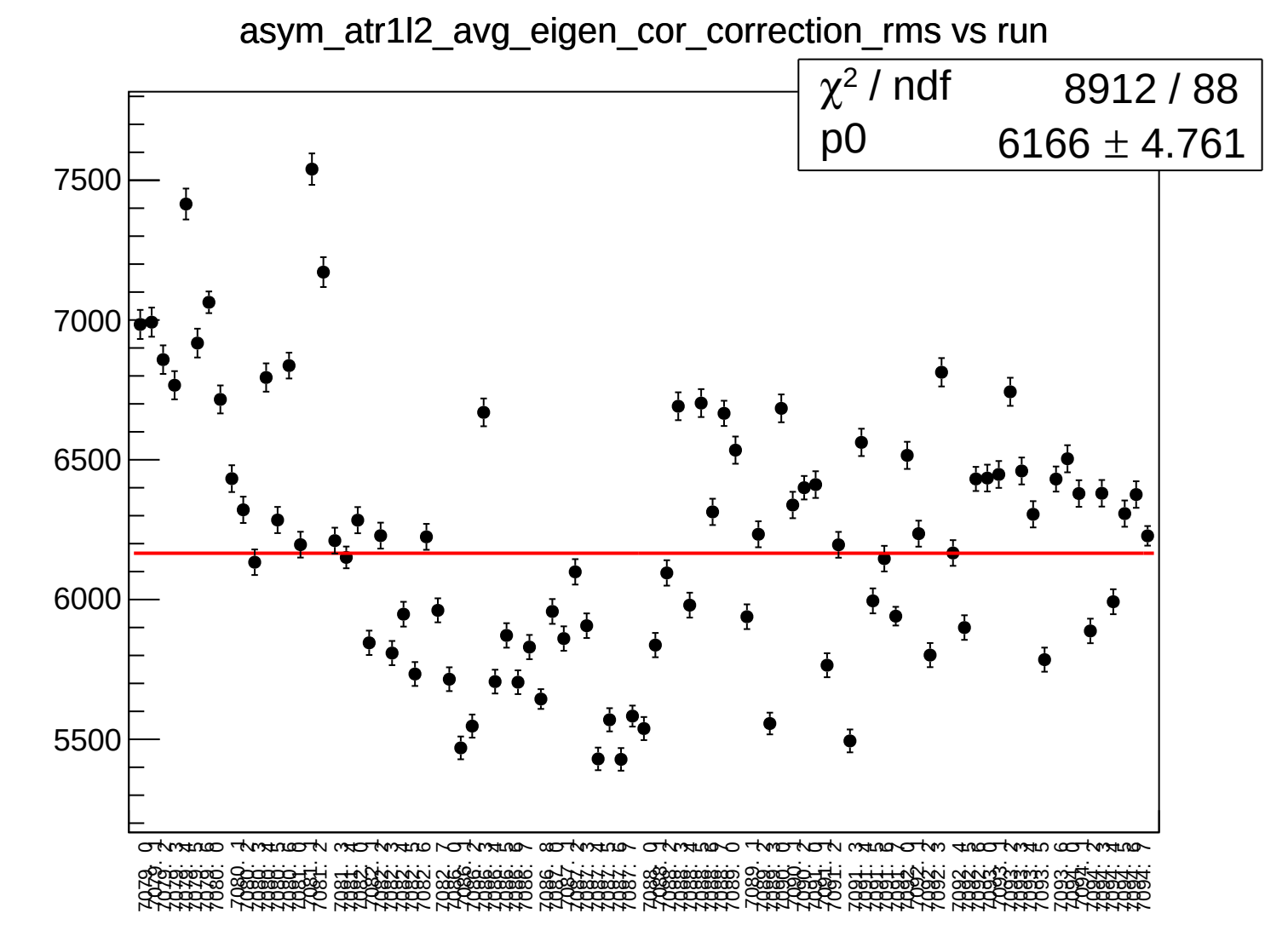

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 86.61 / 88
p0 1506 ± 2034
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 33.5
Std Dev 0
2
1
0
−1
−2

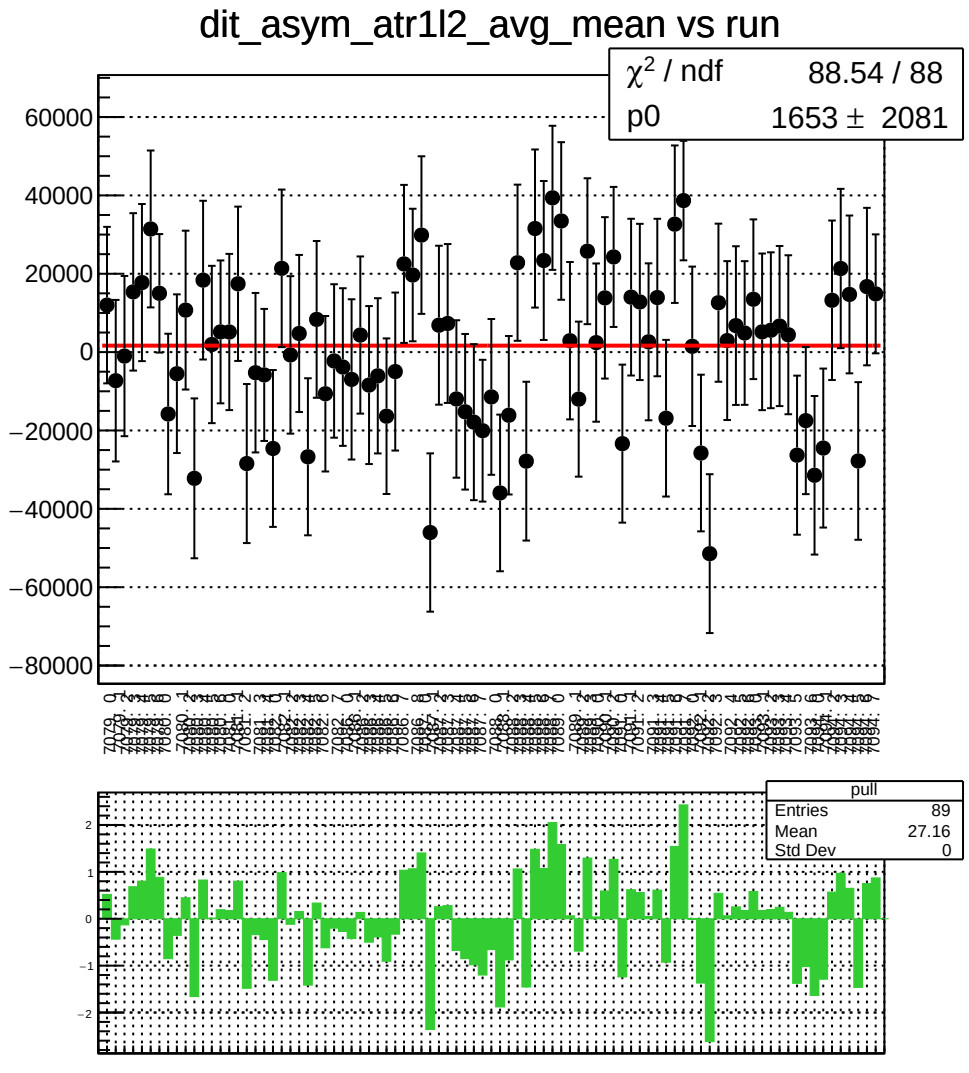

pull1D
Entries 89
Mean −0.01718
Std Dev 0.9863
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

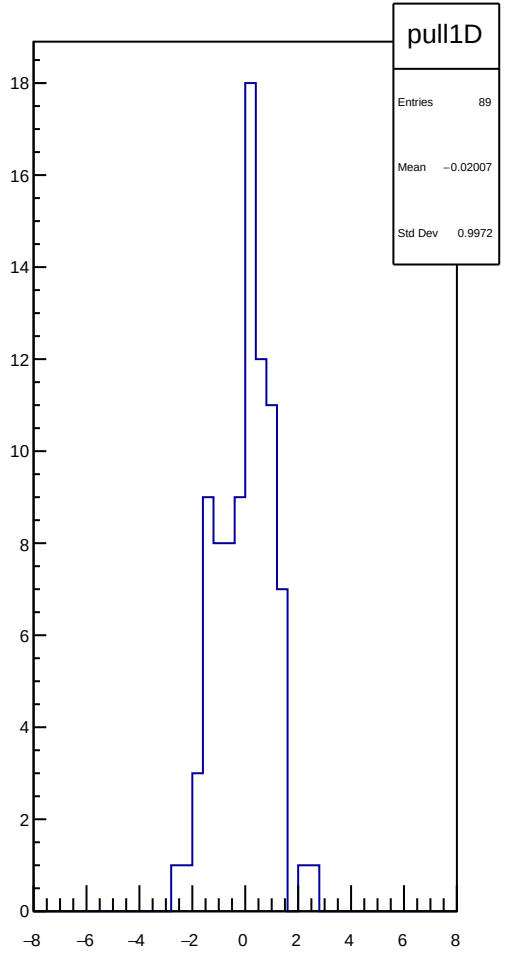

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 106.9 / 88
p0 1868 ± 1.439
1920
1900
1880
1860
1840
1820

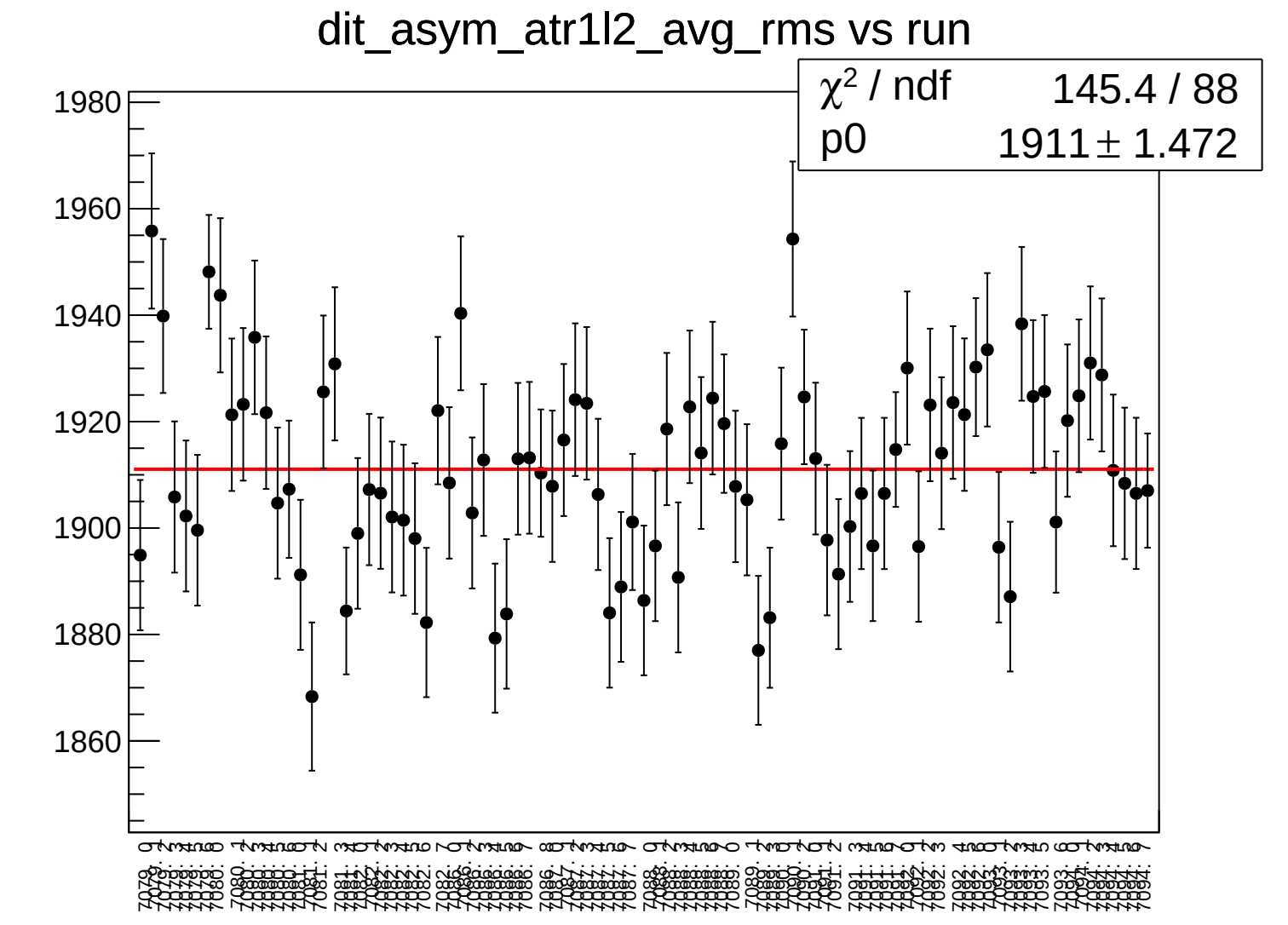

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.33 / 88
p0 −2440 ± 6733
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −400
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

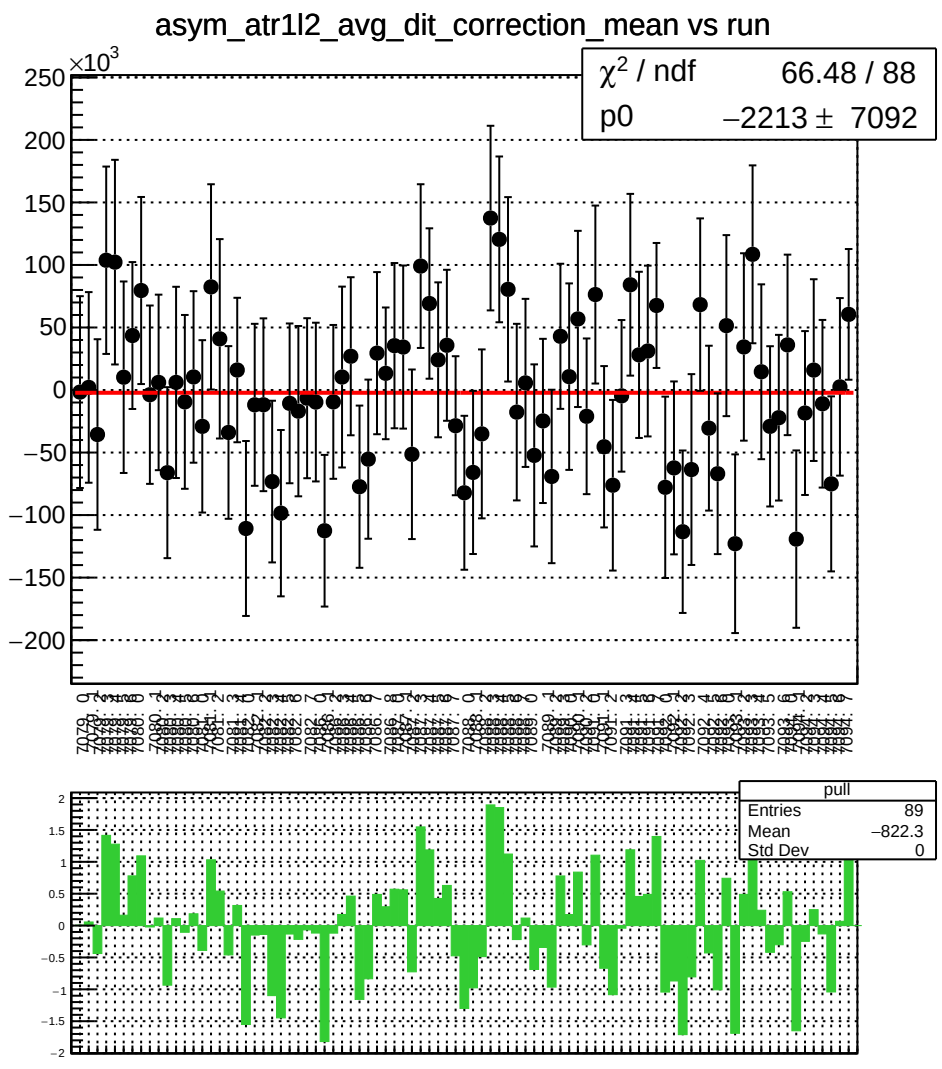

pull1D
Entries 89
Mean 0.003091
Std Dev 0.8633
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

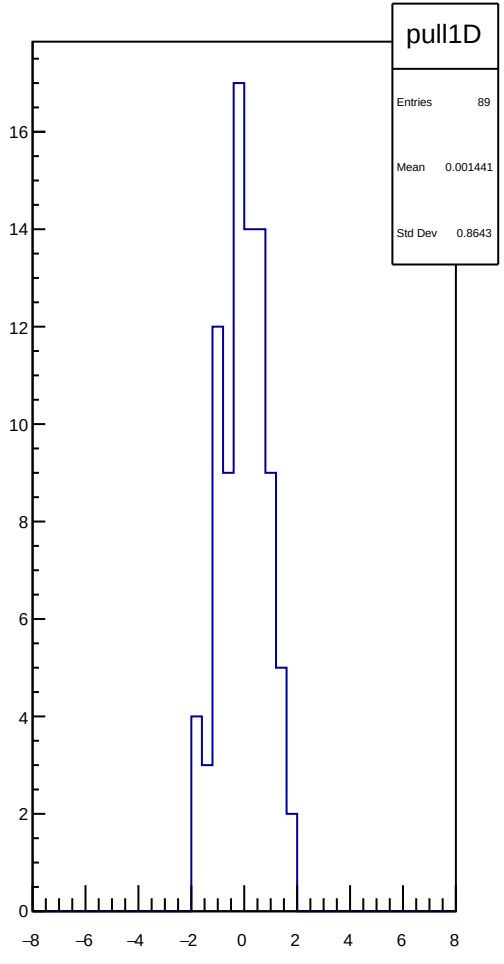

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 8912 / 88
p0 6166 ± 4.761
7500
7000
6500
6000
5500

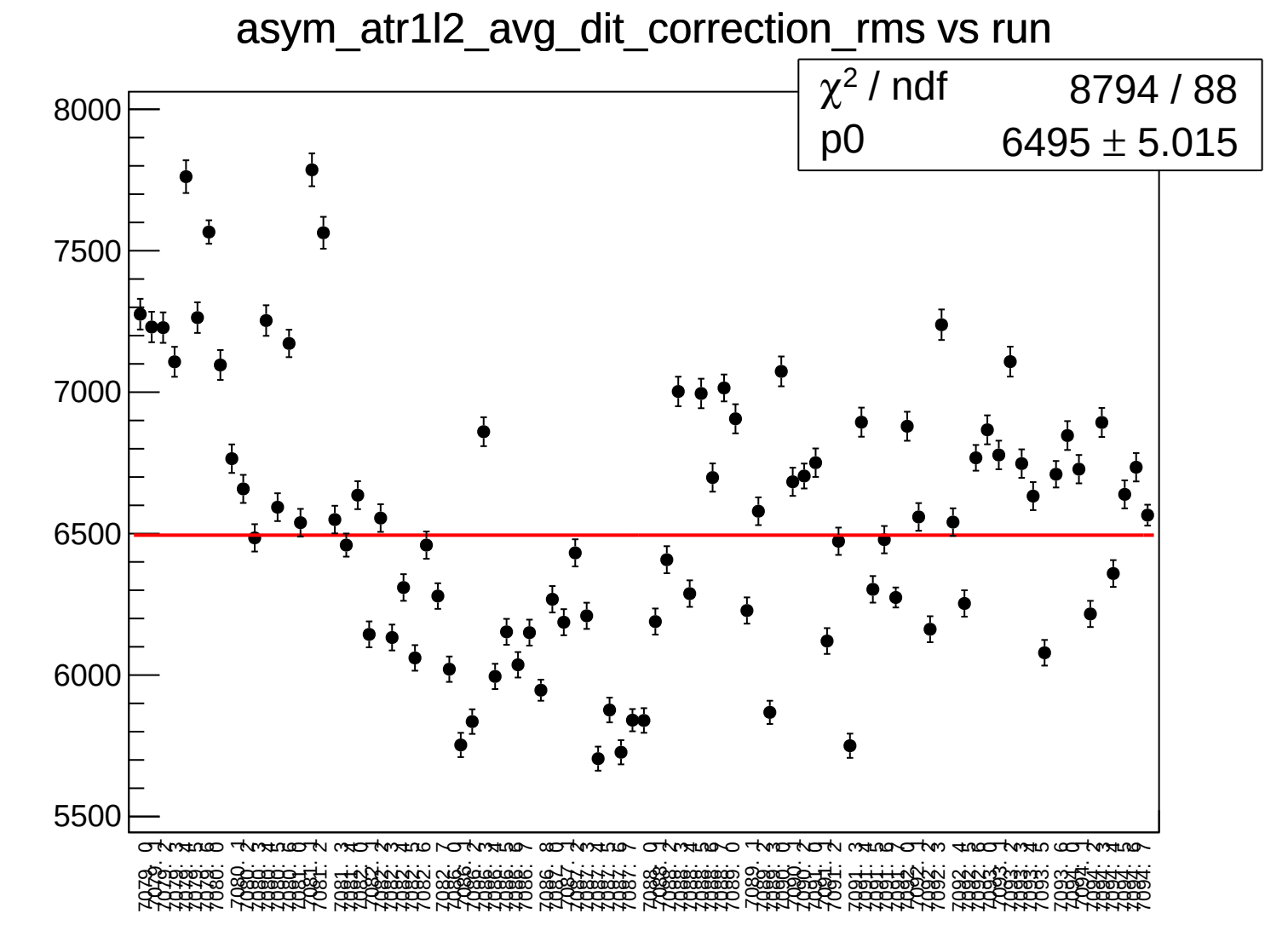

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 88.54 / 88
p0 1653 ± 2081
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 27.16
Std Dev 0
2
1
0
−1
−2

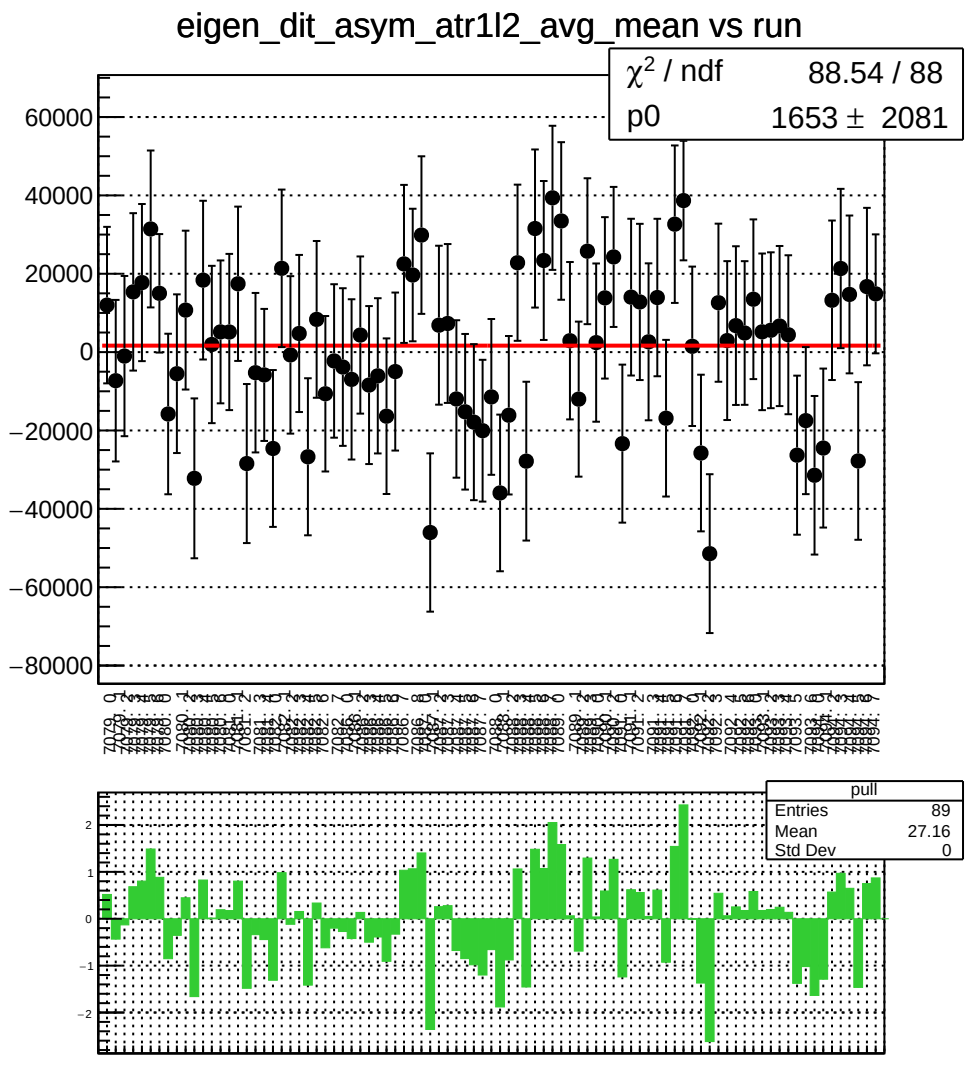

pull1D
Entries 89
Mean −0.02007
Std Dev 0.9972
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

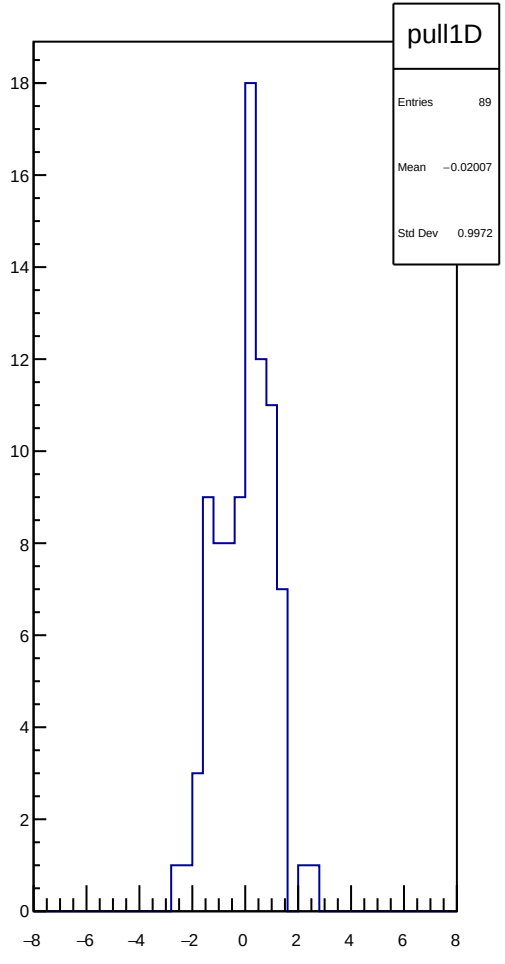

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 145.4 / 88
p0 1911 ± 1.472
1980
1960
1940
1920
1900
1880
1860

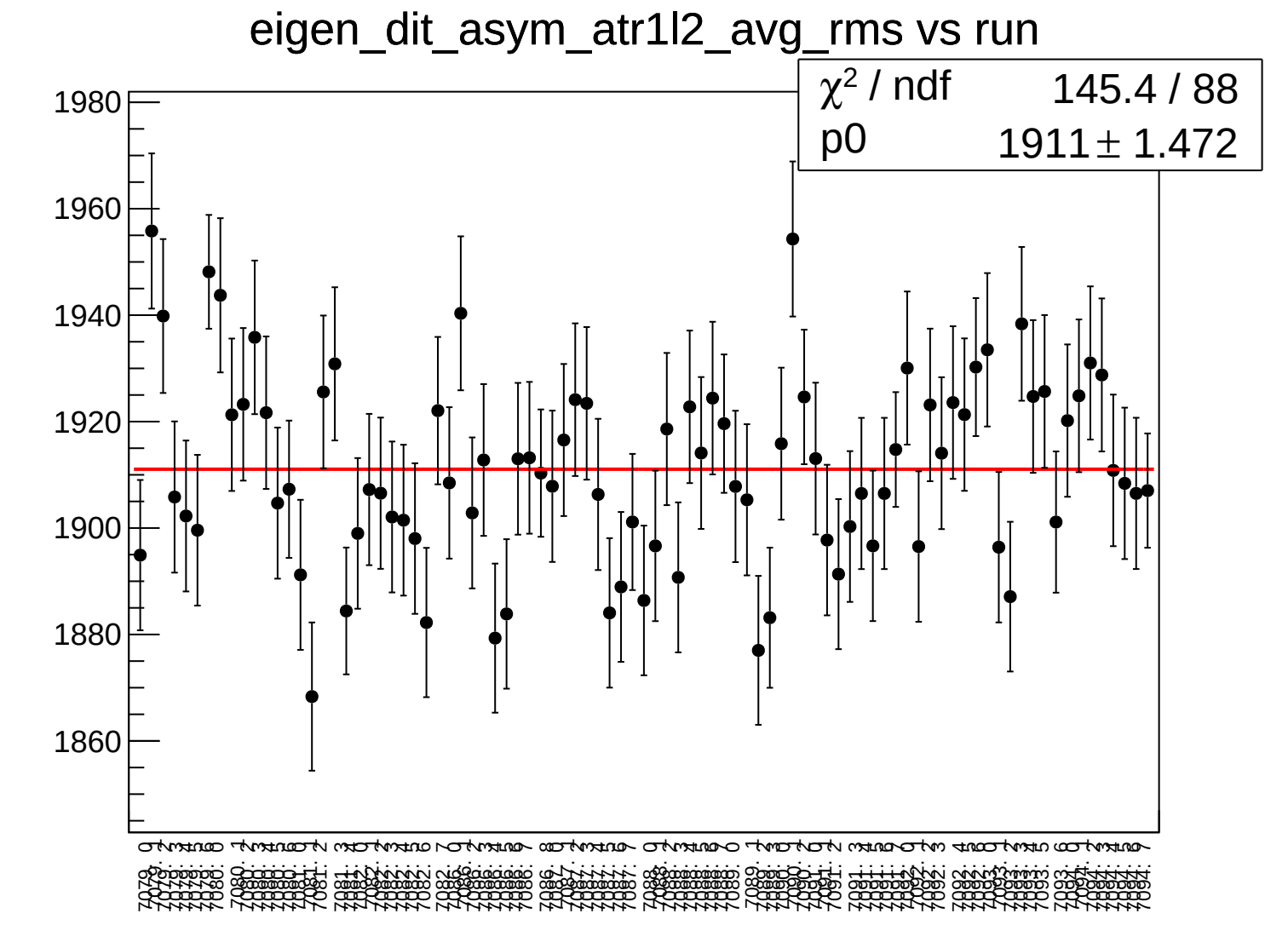

asym_atr1l2_avg_dit_correction_mean vs run
χ² / ndf 66.48 / 88
p0 −2213 ± 7092
×10³
pull
Entries 89
Mean −822.3
Std Dev 0

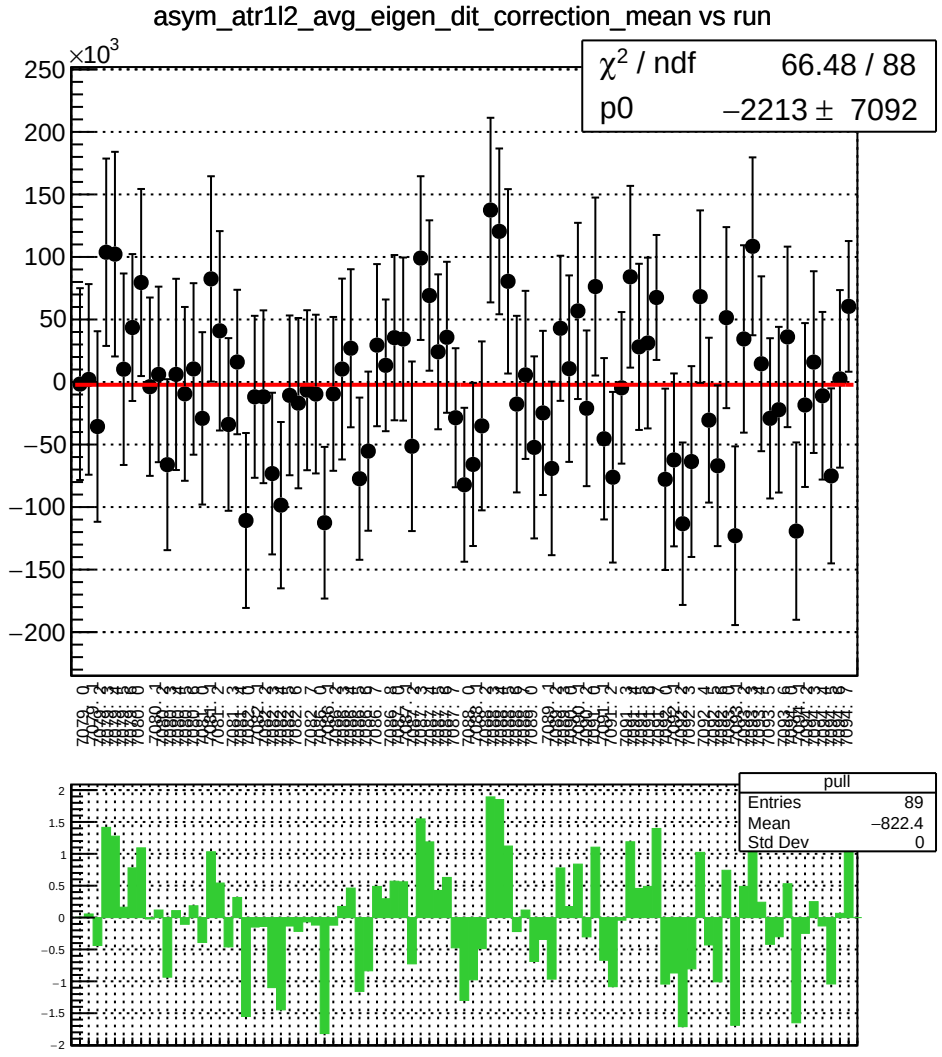

pull1D
Entries 89
Mean 0.001441
Std Dev 0.8643

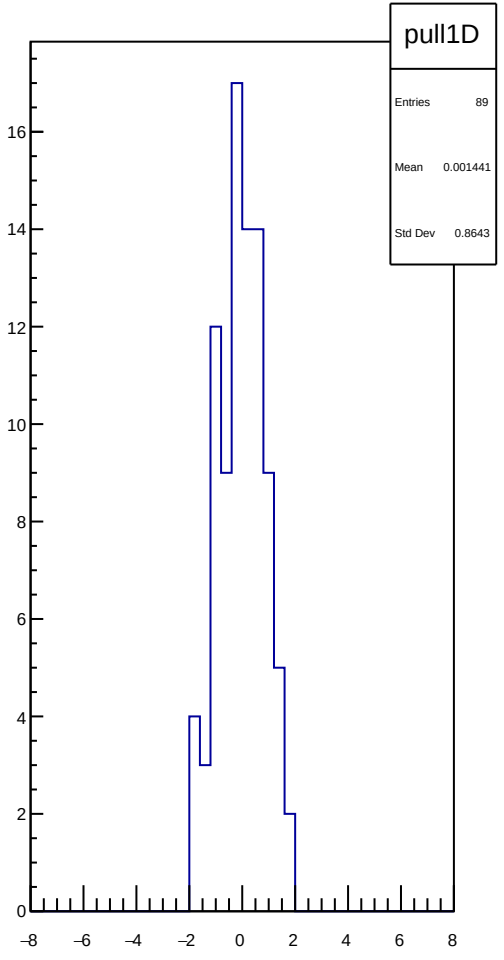

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 8794 / 88
p0 6495 ± 5.015
8000
7500
7000
6500
6000
5500

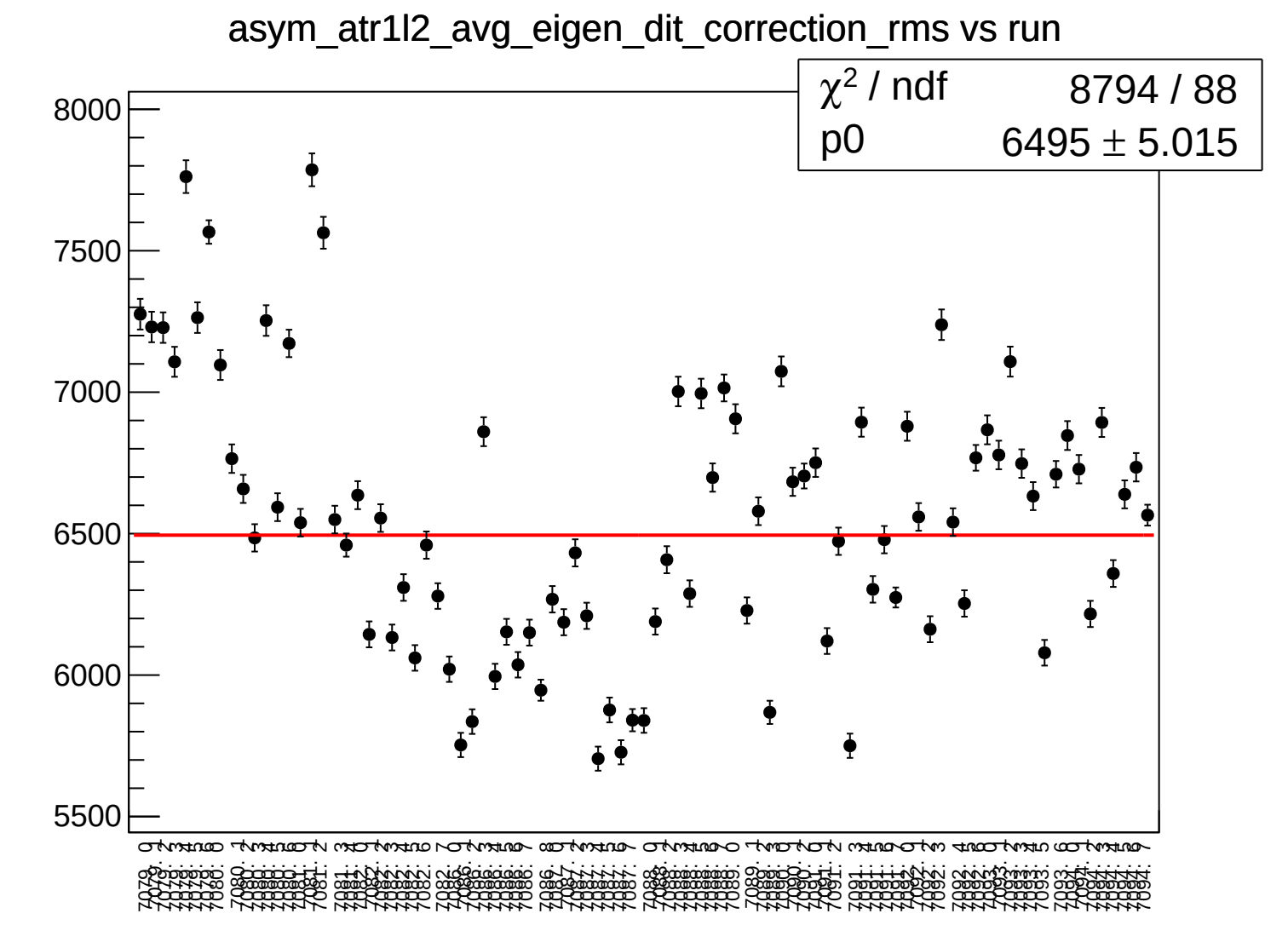

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 88.54 / 88
p0 1653 ± 2081
pull
Entries 89
Mean 27.16
Std Dev 0

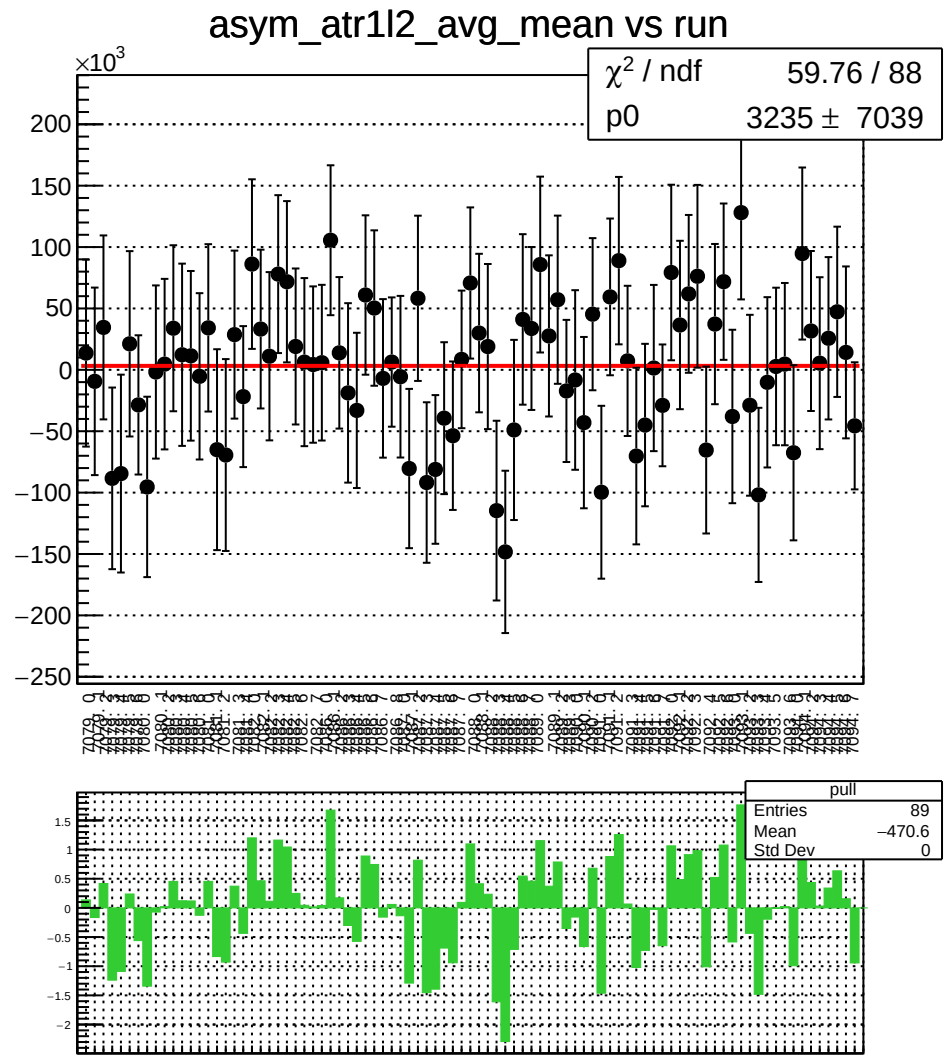

pull1D
Entries 89
Mean −0.02007
Std Dev 0.9972

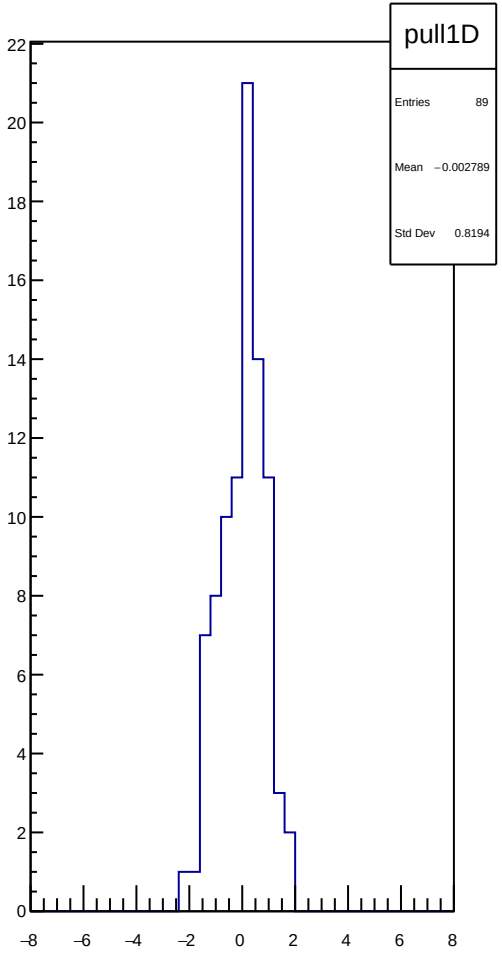

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 145.4 / 88
p0 1911 ± 1.472
1980
1960
1940
1920
1900
1880
1860

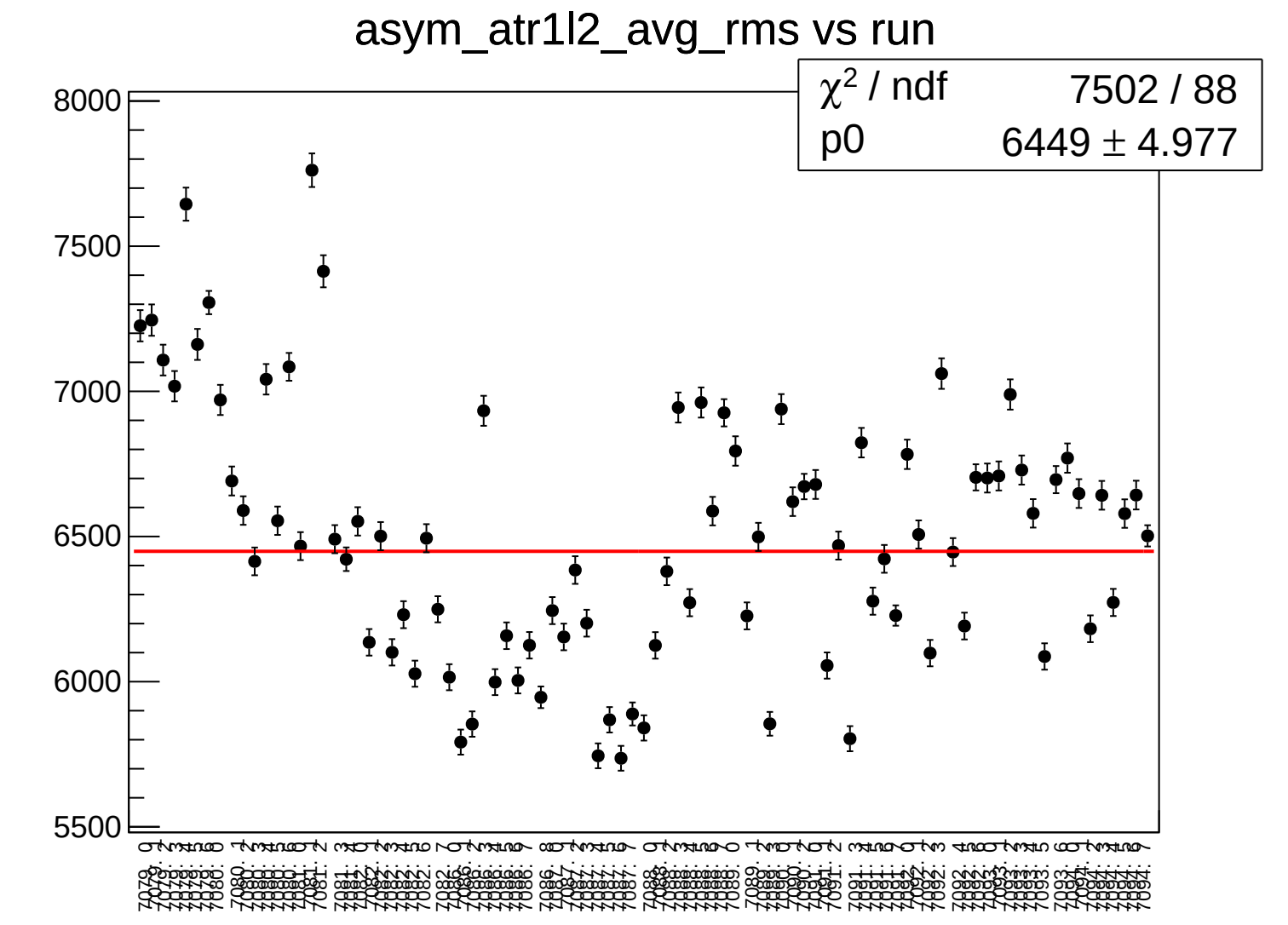

asym_atr1l2_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.48 / 88
p0 −2213 ± 7092
×10³
pull
Entries 89
Mean −822.4
Std Dev 0

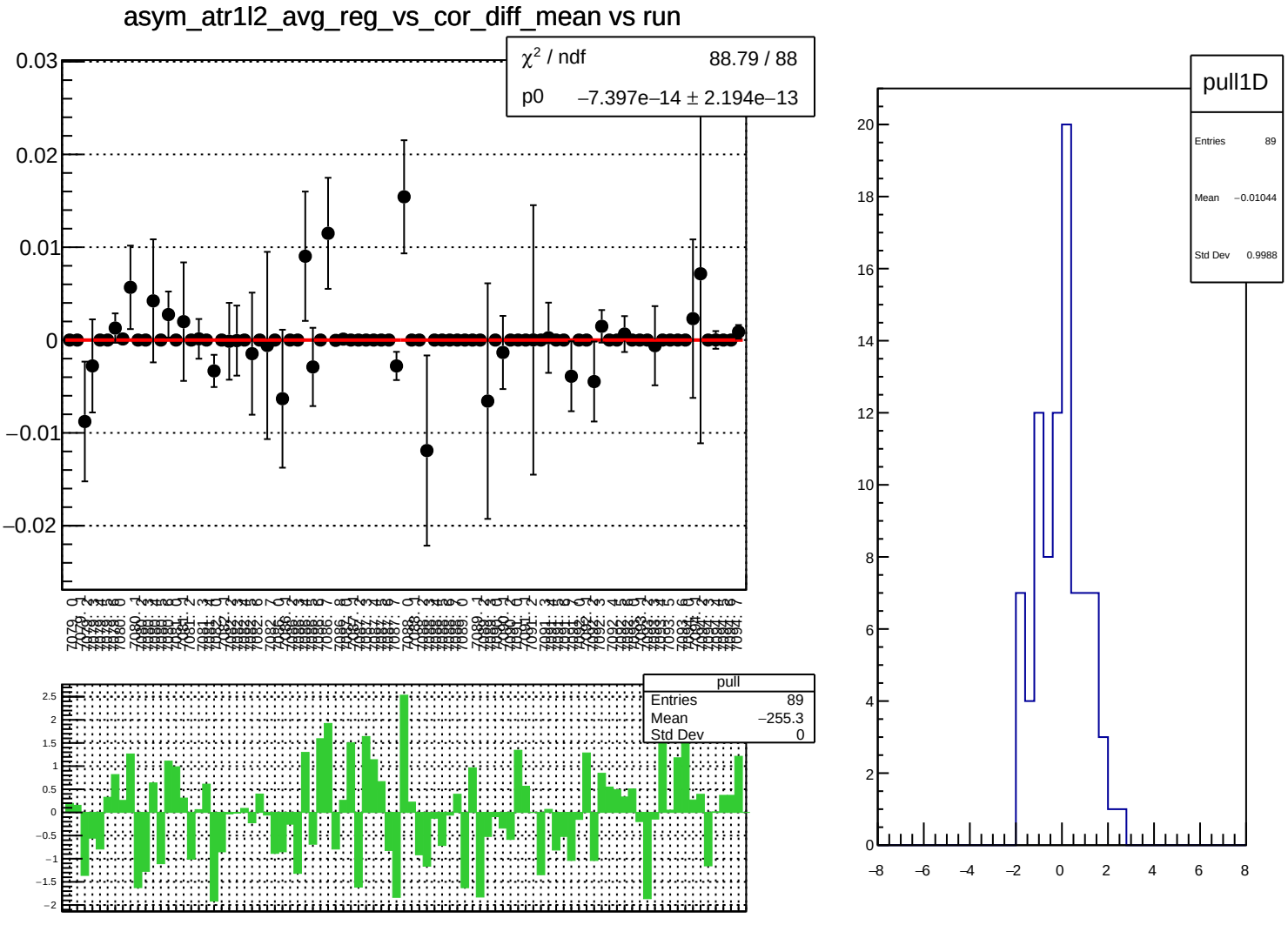

pull1D
Entries 89
Mean 0.001441
Std Dev 0.8643

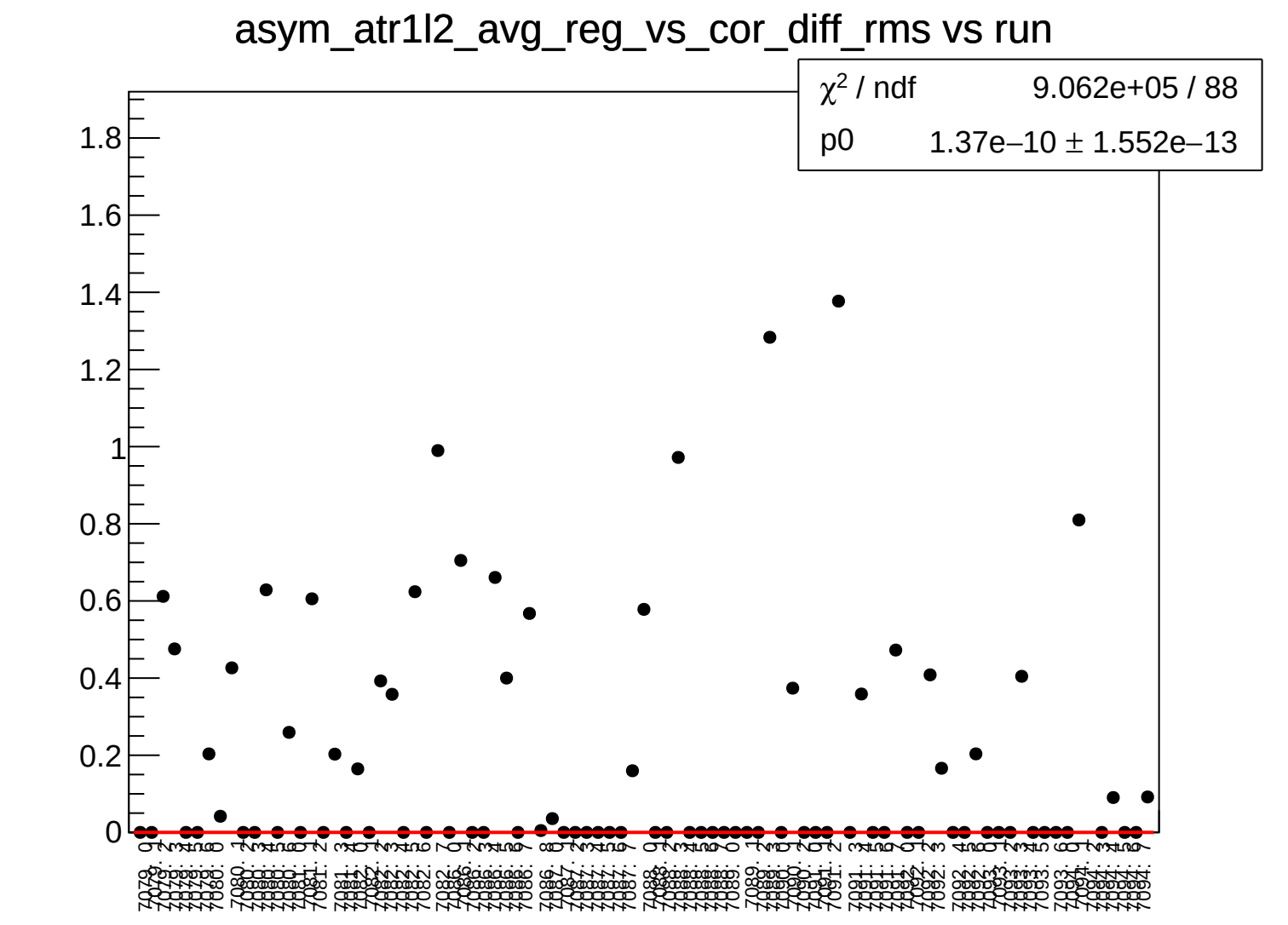

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8794 / 88
p0 6495 ± 5.015
8000
7500
7000
6500
6000
5500

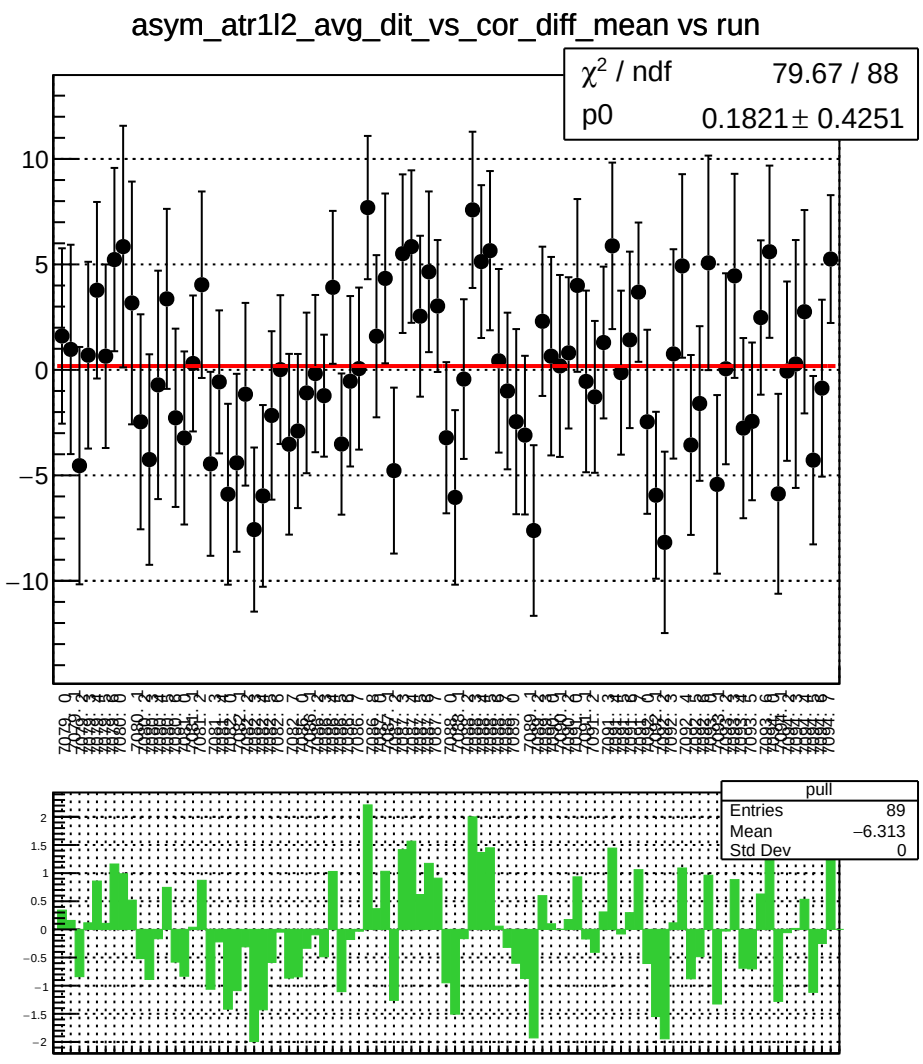

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 59.76 / 88
p0 3235 ± 7039
pull
Entries 89
Mean −470.6
Std Dev 0

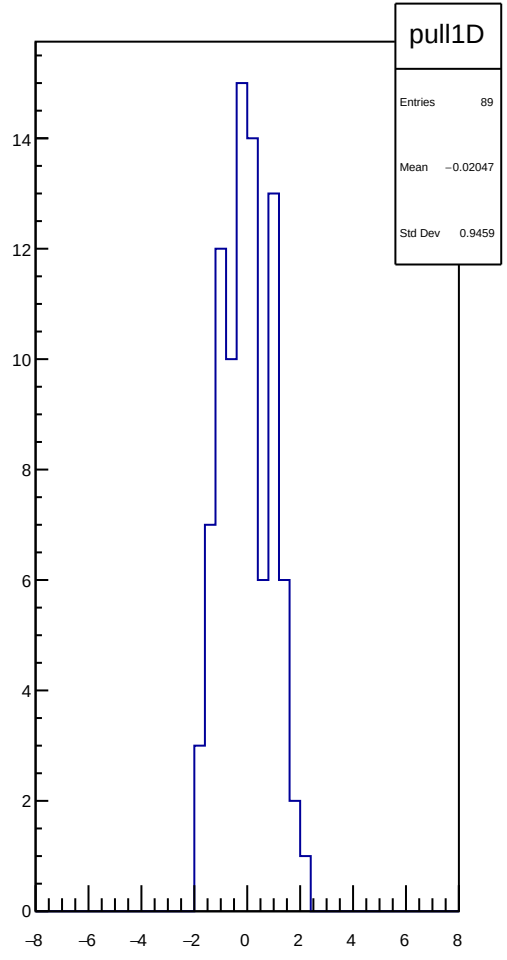

pull1D
Entries 89
Mean −0.002789
Std Dev 0.8194

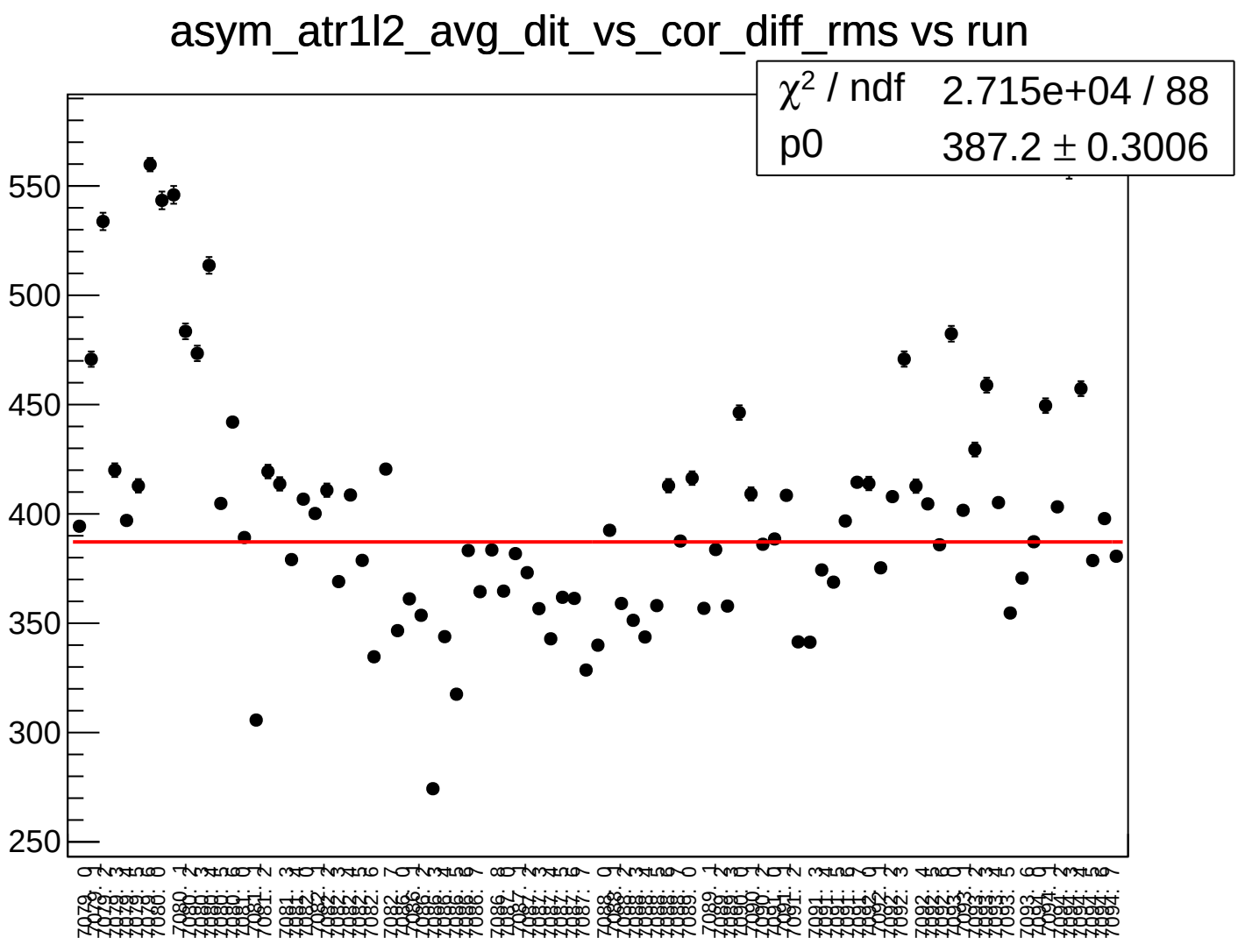

asym_atr1l2_avg_rms vs run
χ² / ndf 7502 / 88
p0 6449 ± 4.977
8000
7500
7000
6500
6000
5500

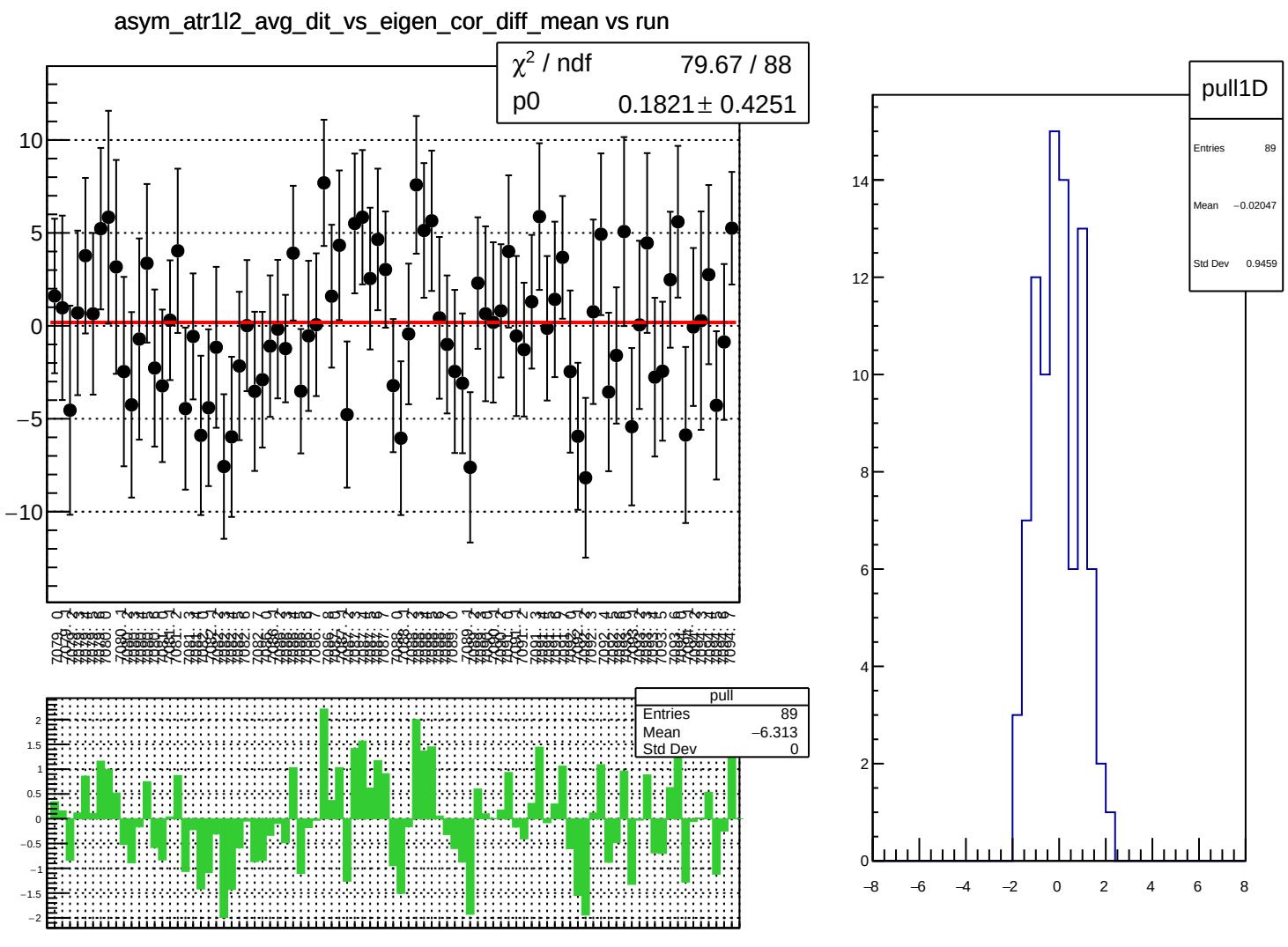

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.79 / 88
p0 −7.397e−14 ± 2.194e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean −255.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01044
Std Dev 0.9988
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

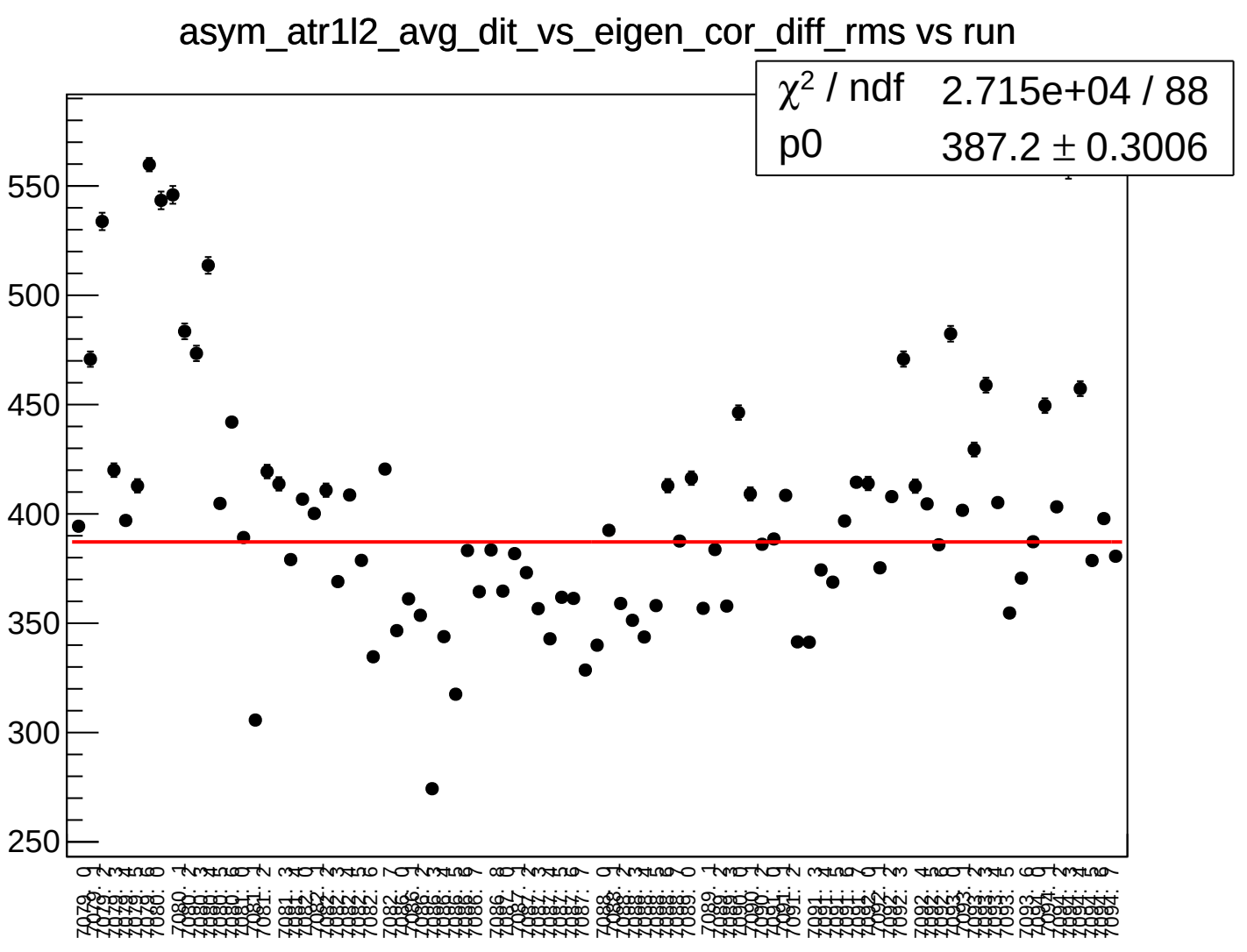

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.062e+05 / 88
p0 1.37e−10 ± 1.552e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

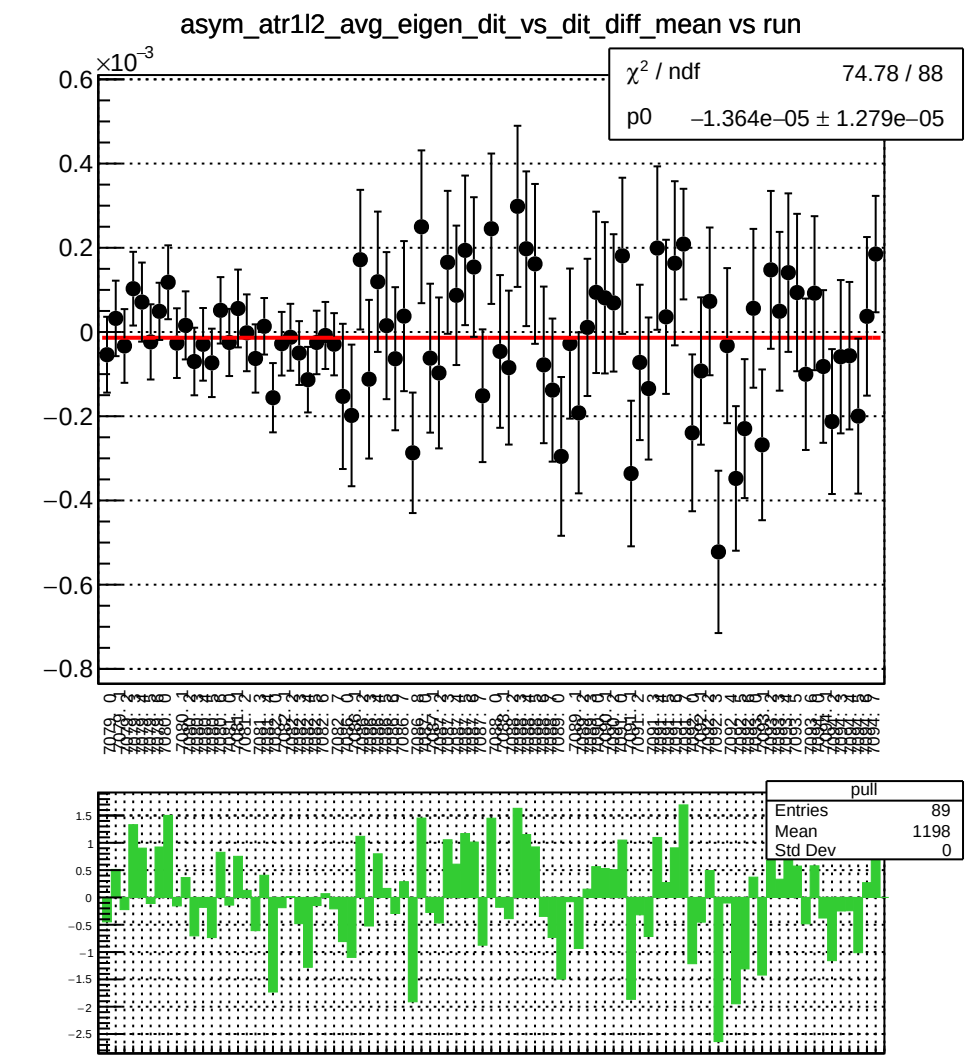

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.67 / 88
p0 0.1821 ± 0.4251
pull
Entries 89
Mean −6.313
Std Dev 0

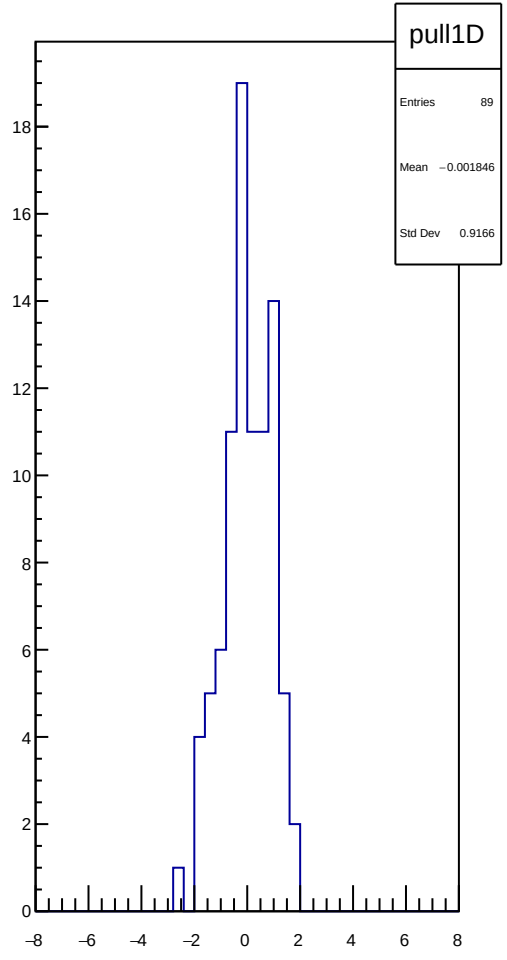

pull1D
Entries 89
Mean −0.02047
Std Dev 0.9459

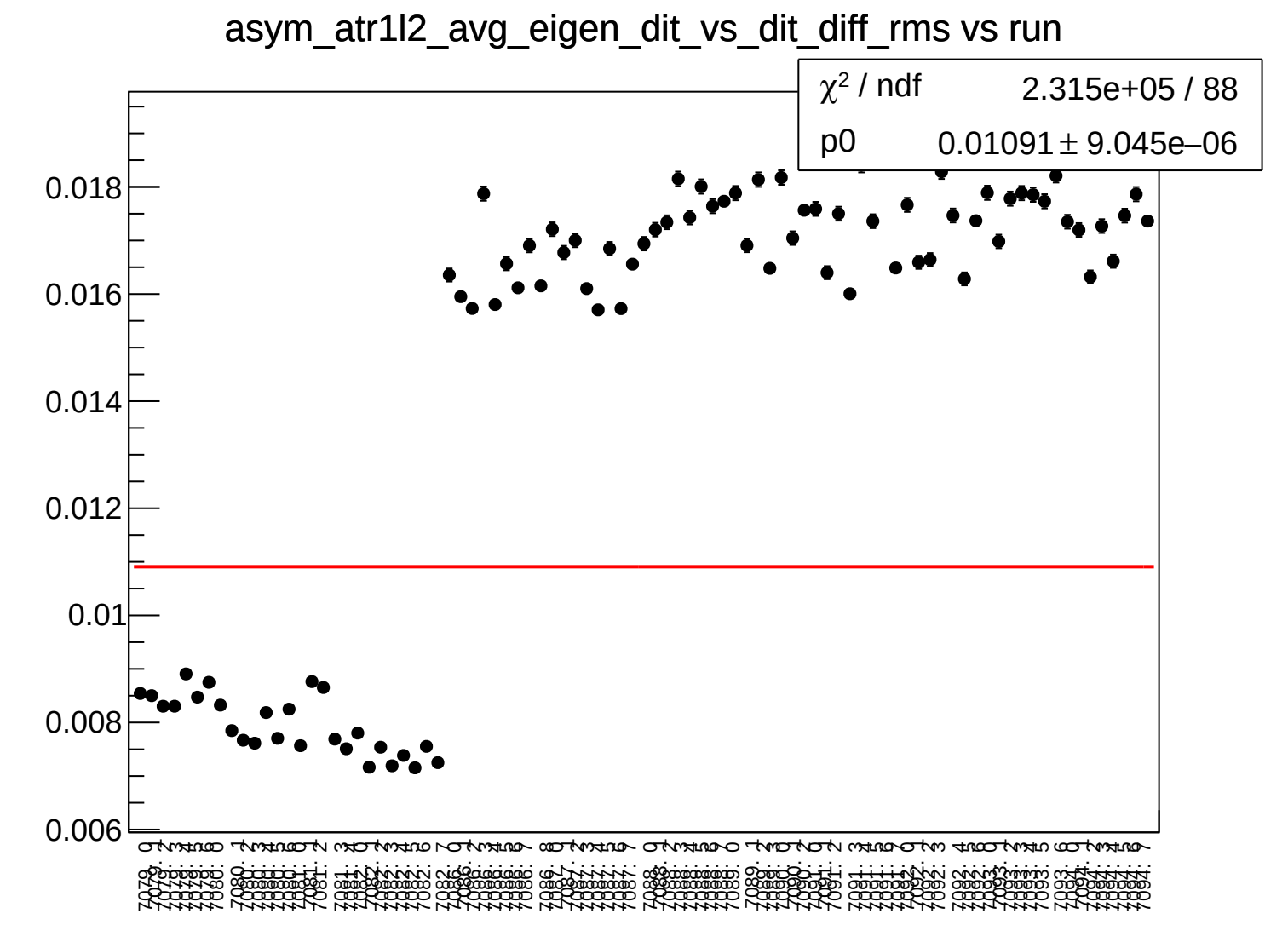

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 88
p0 387.2 ± 0.3006
550
500
450
400
350
300
250

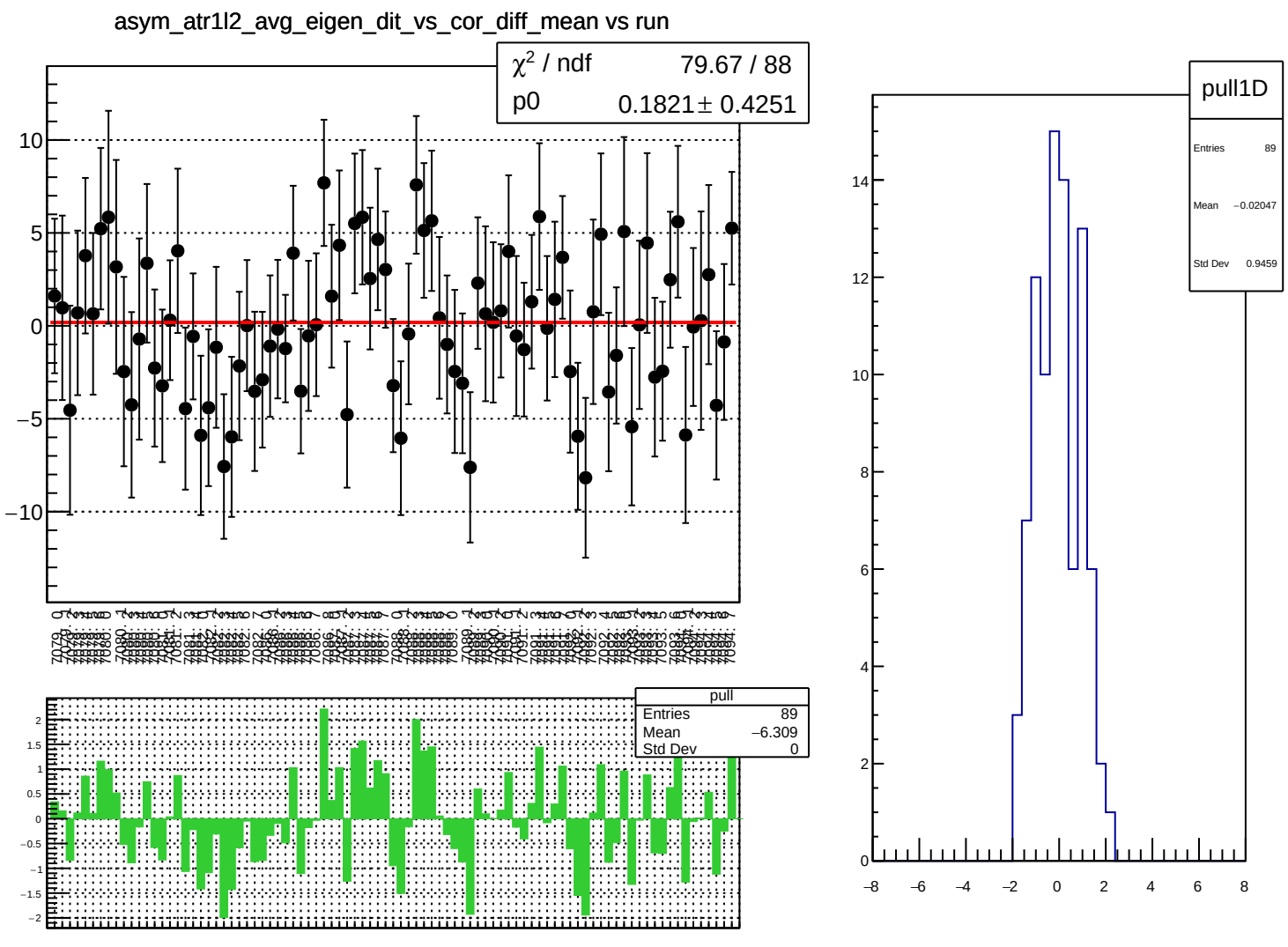

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.67 / 88
p0 0.1821 ± 0.4251
pull
Entries 89
Mean −6.313
Std Dev 0
pull1D
Entries 89
Mean −0.02047
Std Dev 0.9459

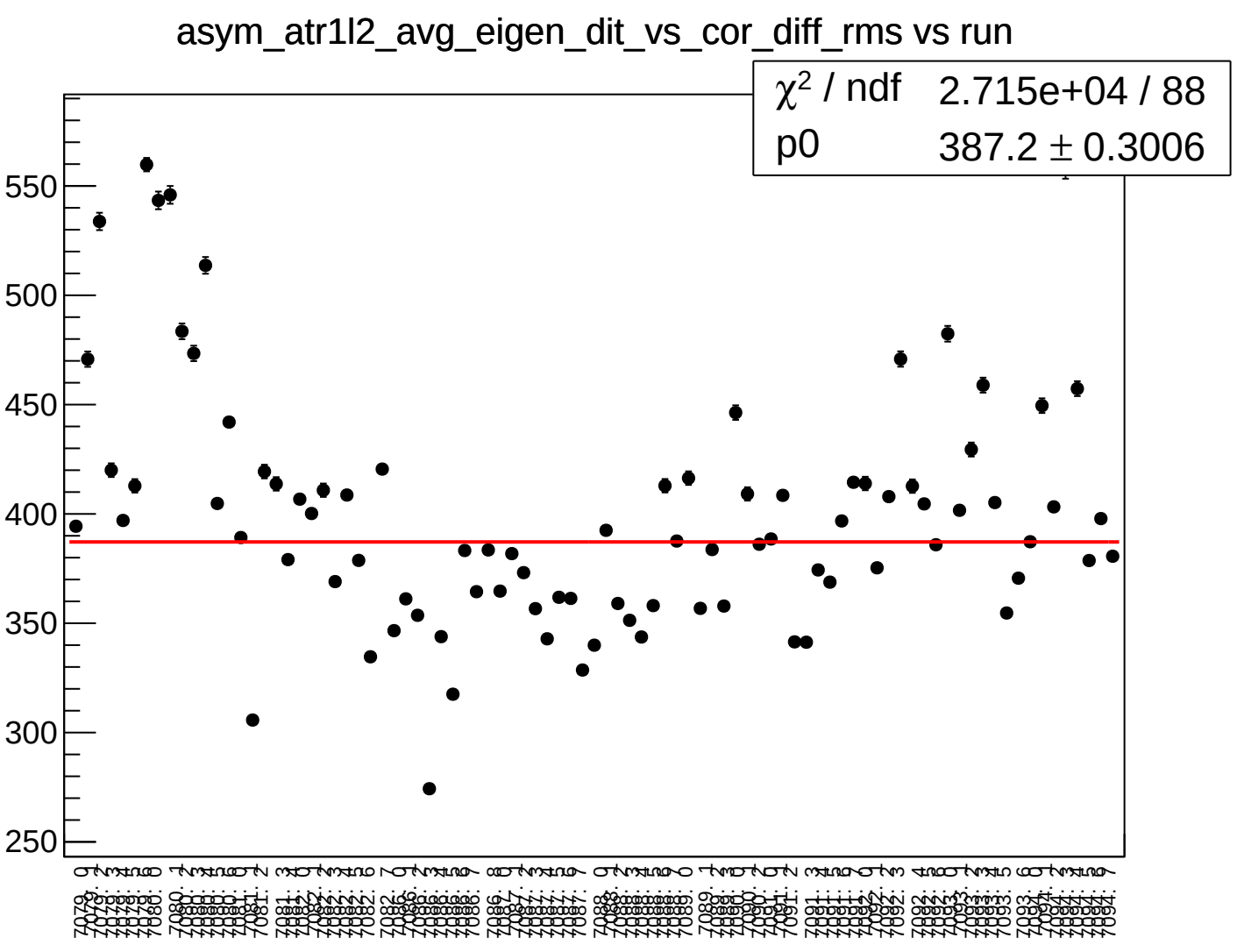

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 88
p0 387.2 ± 0.3006
550
500
450
400
350
300
250

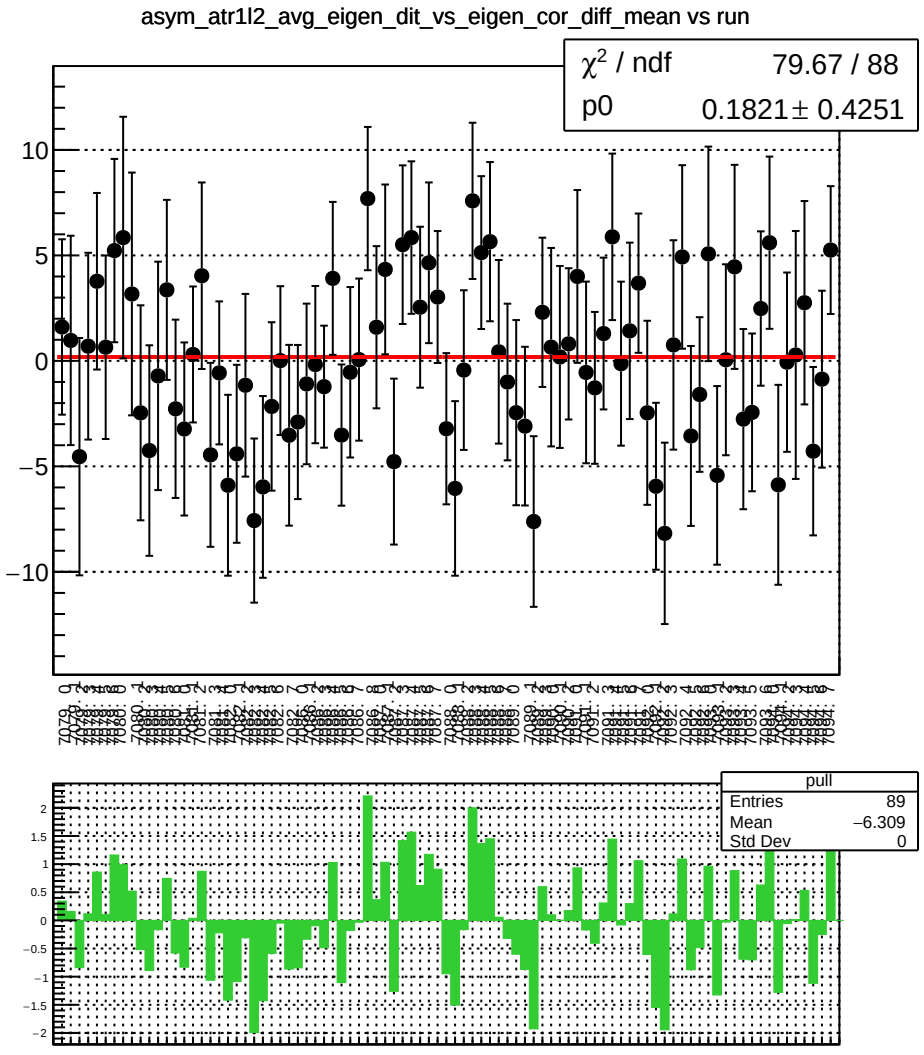

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.78 / 88
p0 −1.364e−05 ± 1.279e−05
pull
Entries 89
Mean 1198
Std Dev 0

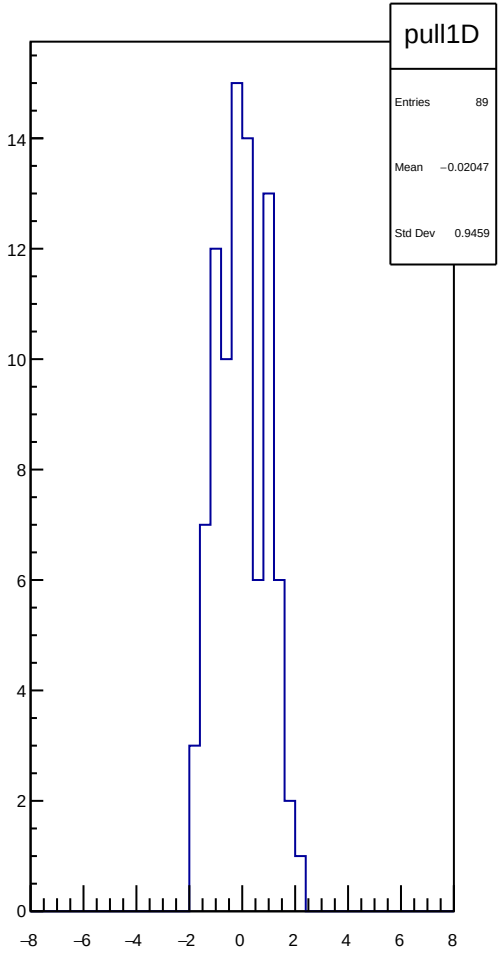

pull1D
Entries 89
Mean −0.001846
Std Dev 0.9166

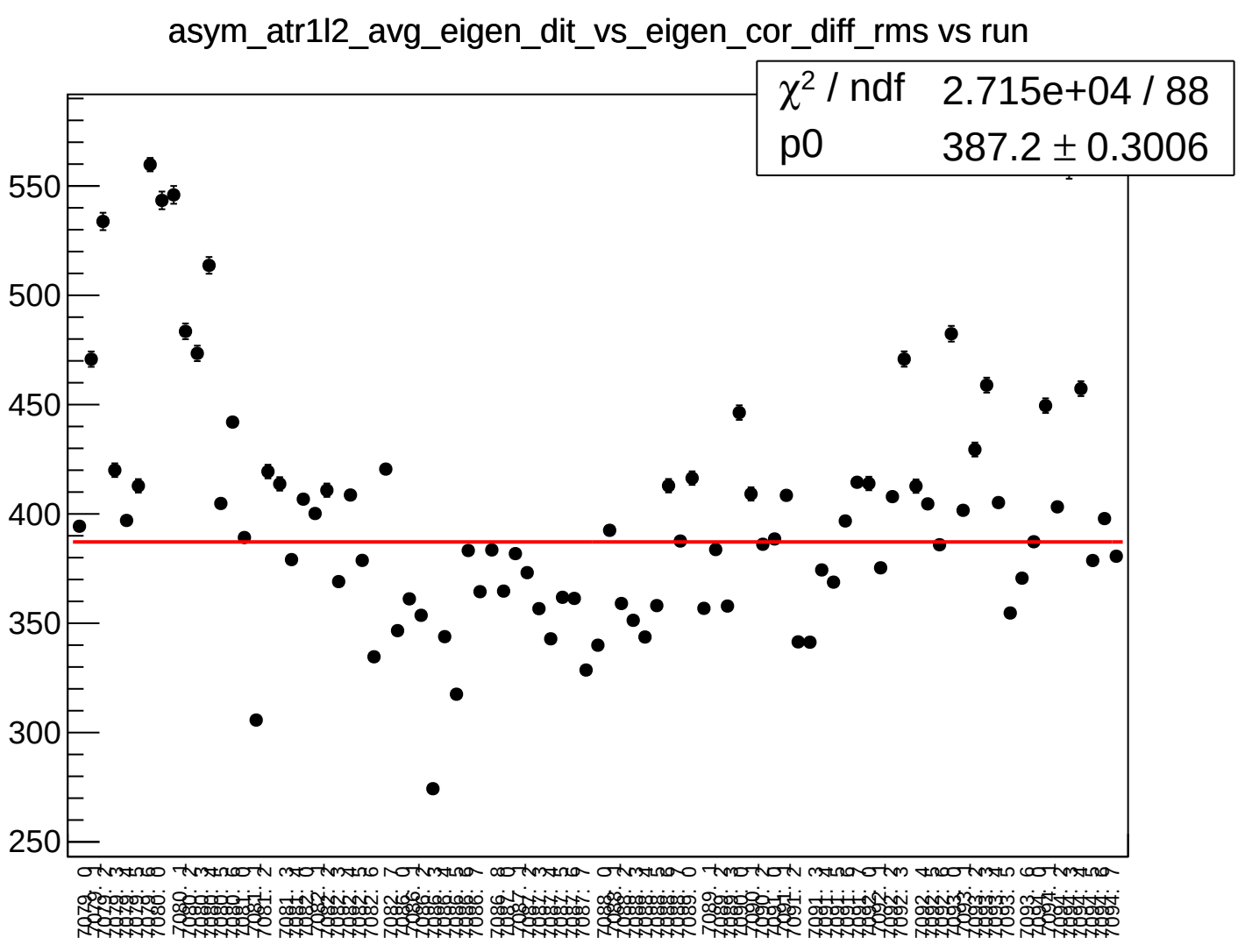

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.315e+05 / 88
p0 0.01091 ± 9.045e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

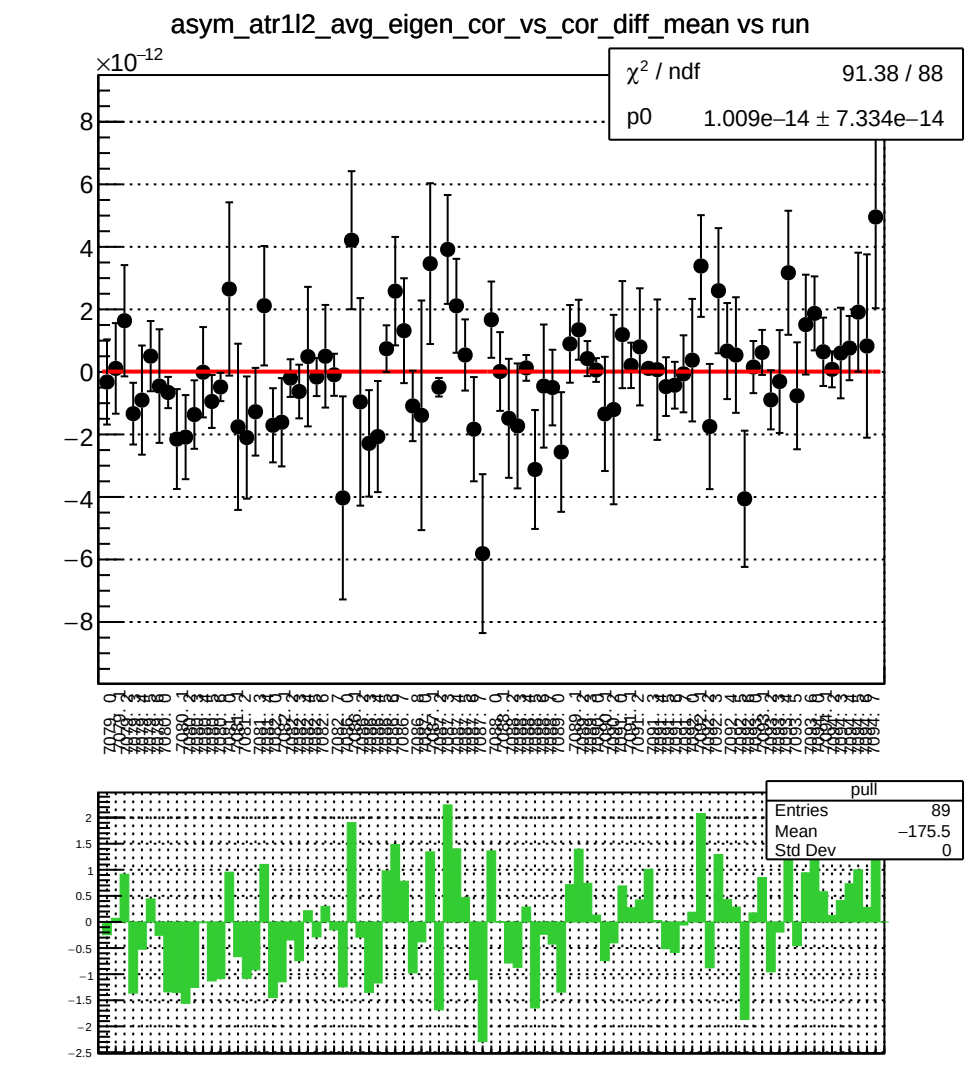

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.67 / 88
p0 0.1821 ± 0.4251
pull
Entries 89
Mean −6.309
Std Dev 0
pull1D
Entries 89
Mean −0.02047
Std Dev 0.9459

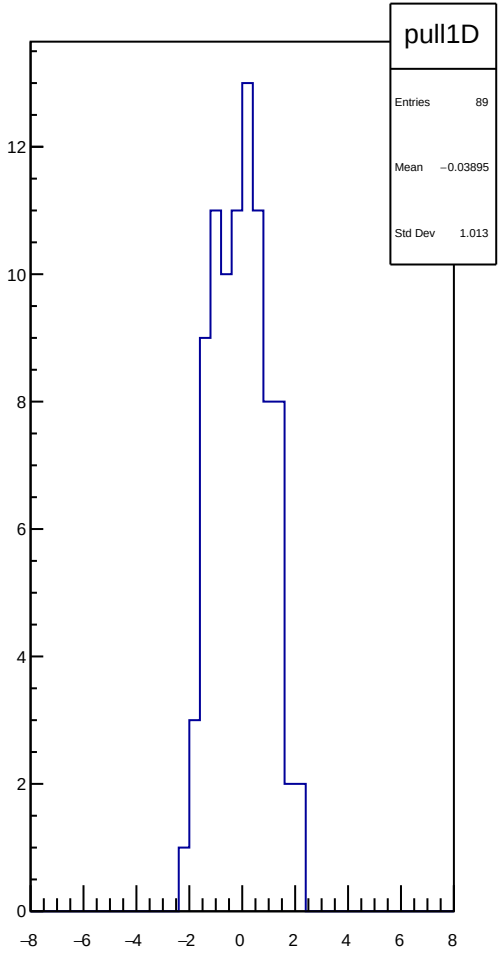

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 88
p0 387.2 ± 0.3006
550
500
450
400
350
300
250

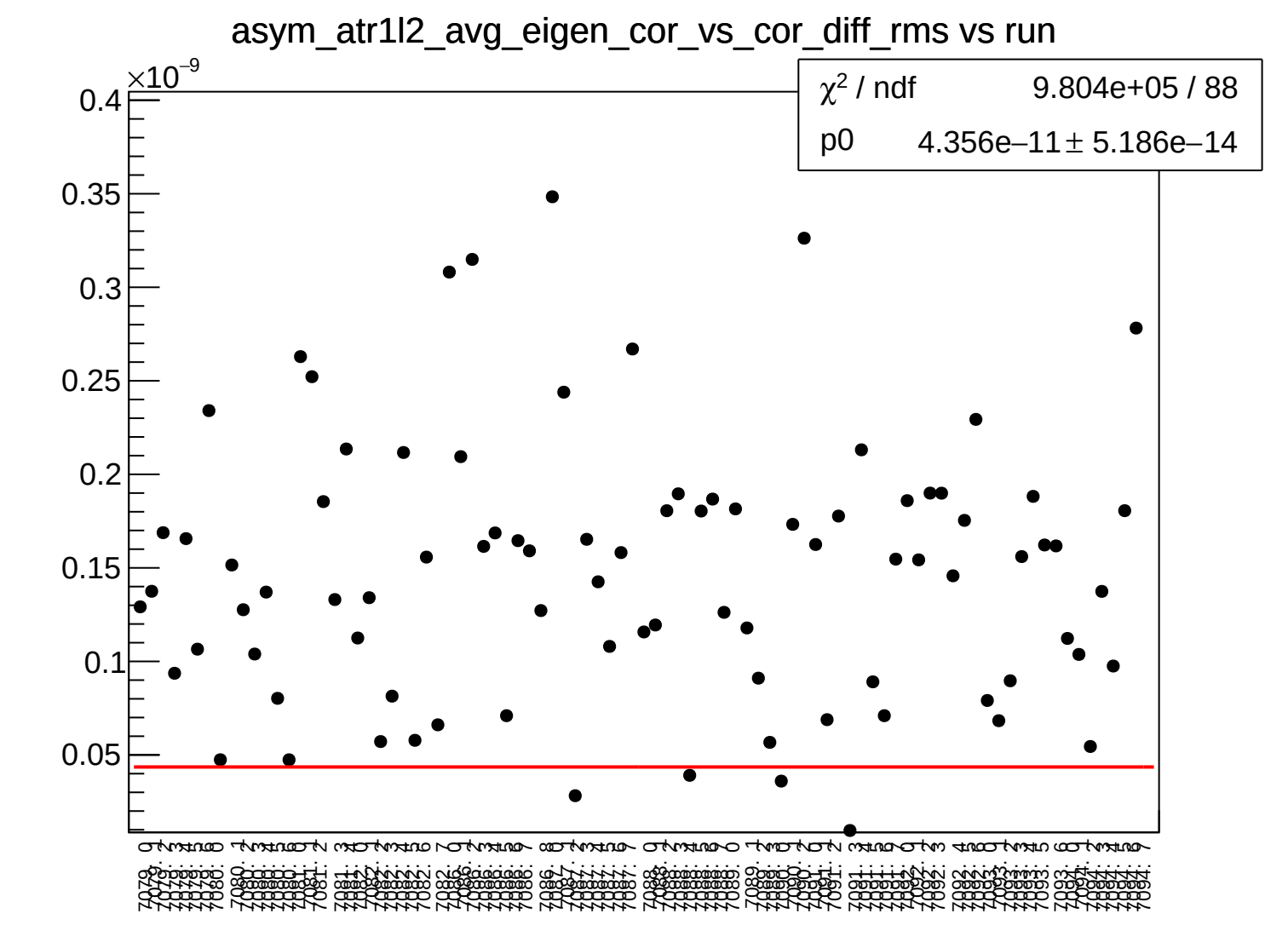

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.67 / 88
p0 0.1821 ± 0.4251
pull
Entries 89
Mean −6.309
Std Dev 0

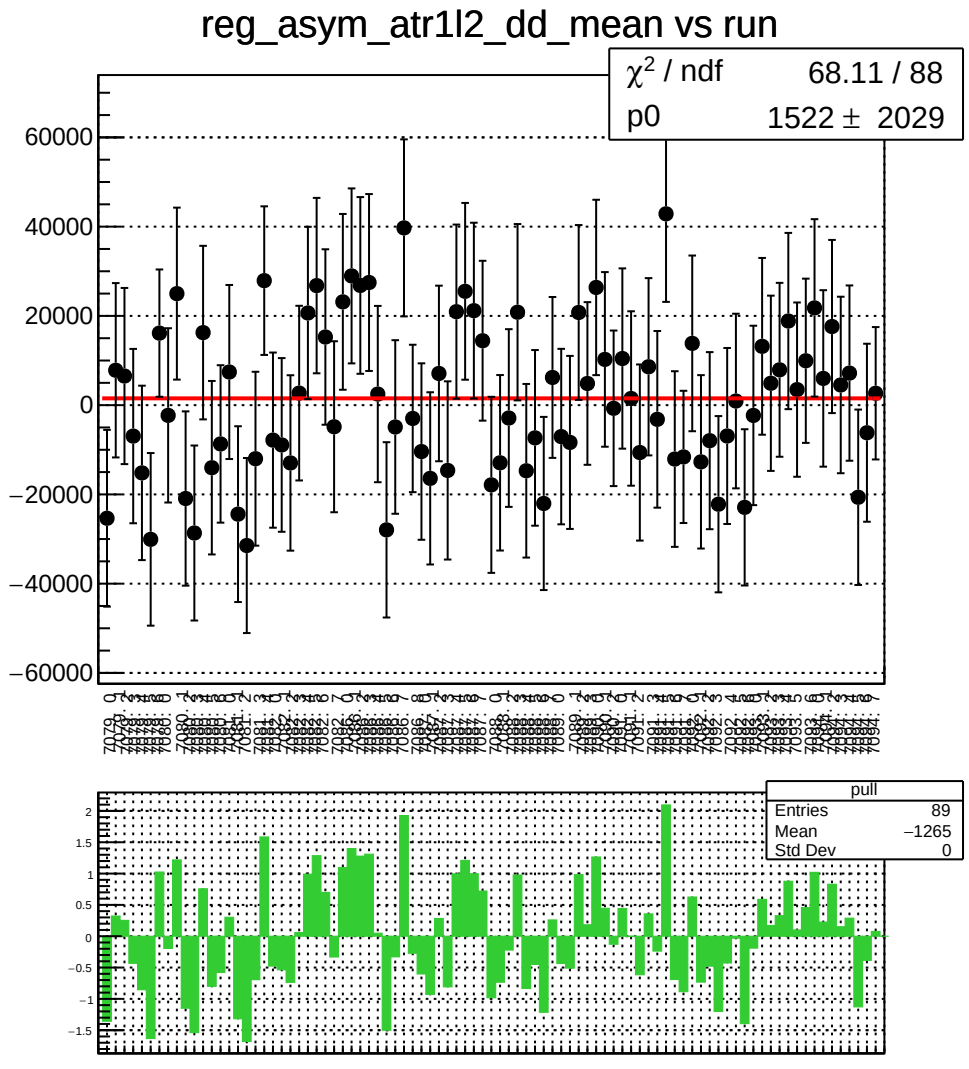

pull1D
Entries 89
Mean −0.02047
Std Dev 0.9459

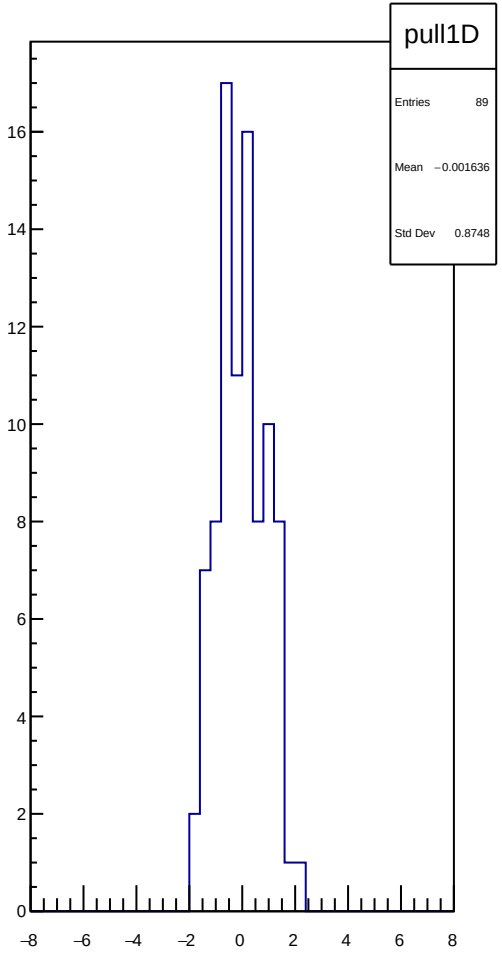

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 88
p0 387.2 ± 0.3006
550
500
450
400
350
300
250

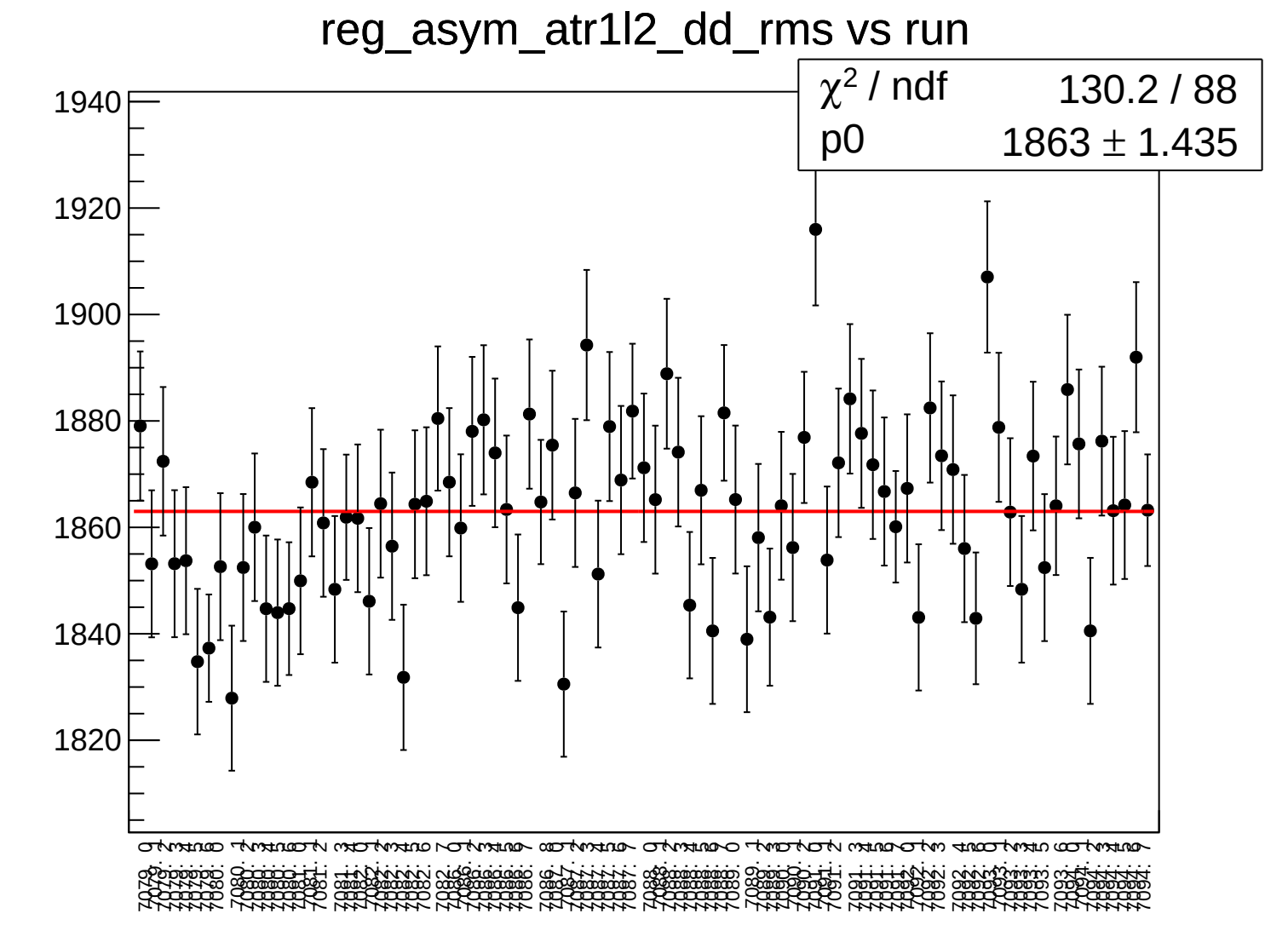

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.38 / 88
p0 1.009e−14 ± 7.334e−14
pull
Entries 89
Mean −175.5
Std Dev 0

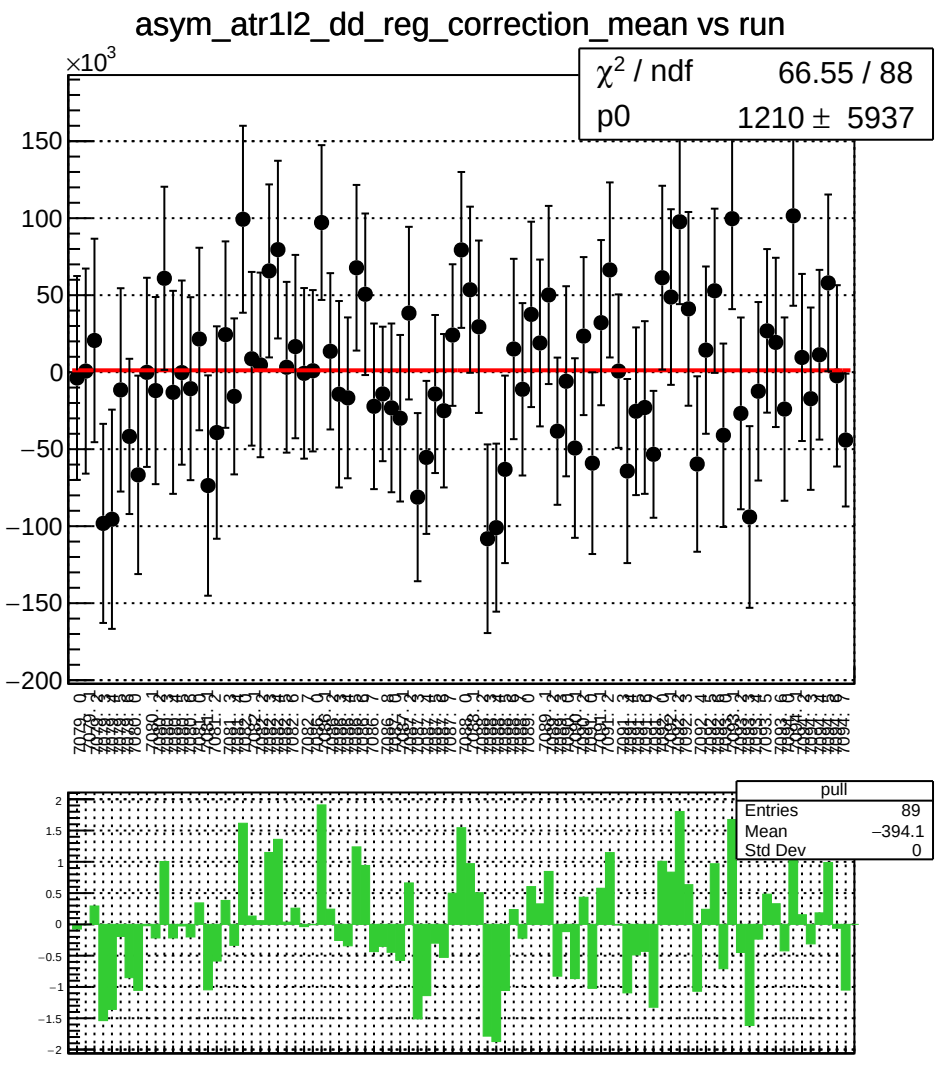

pull1D
Entries 89
Mean −0.03895
Std Dev 1.013

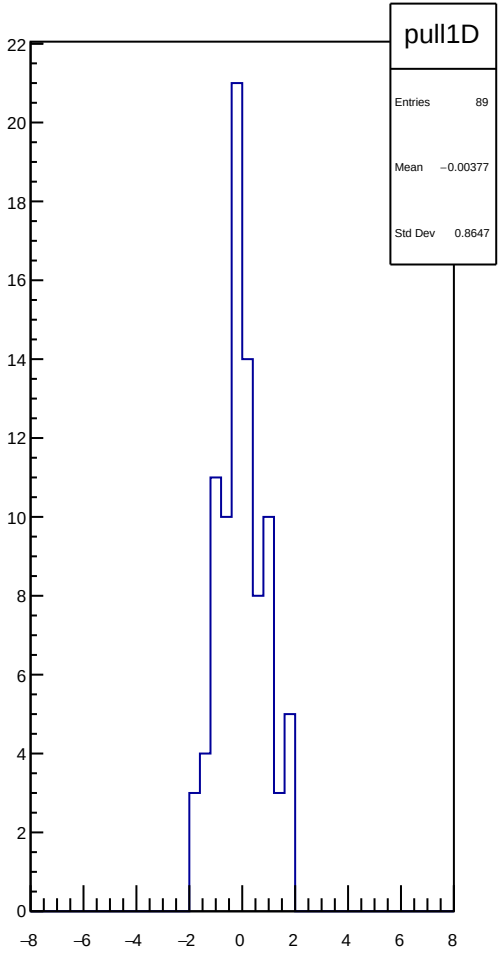

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 9.804e+05 / 88
p0 4.356e−11 ± 5.186e−14

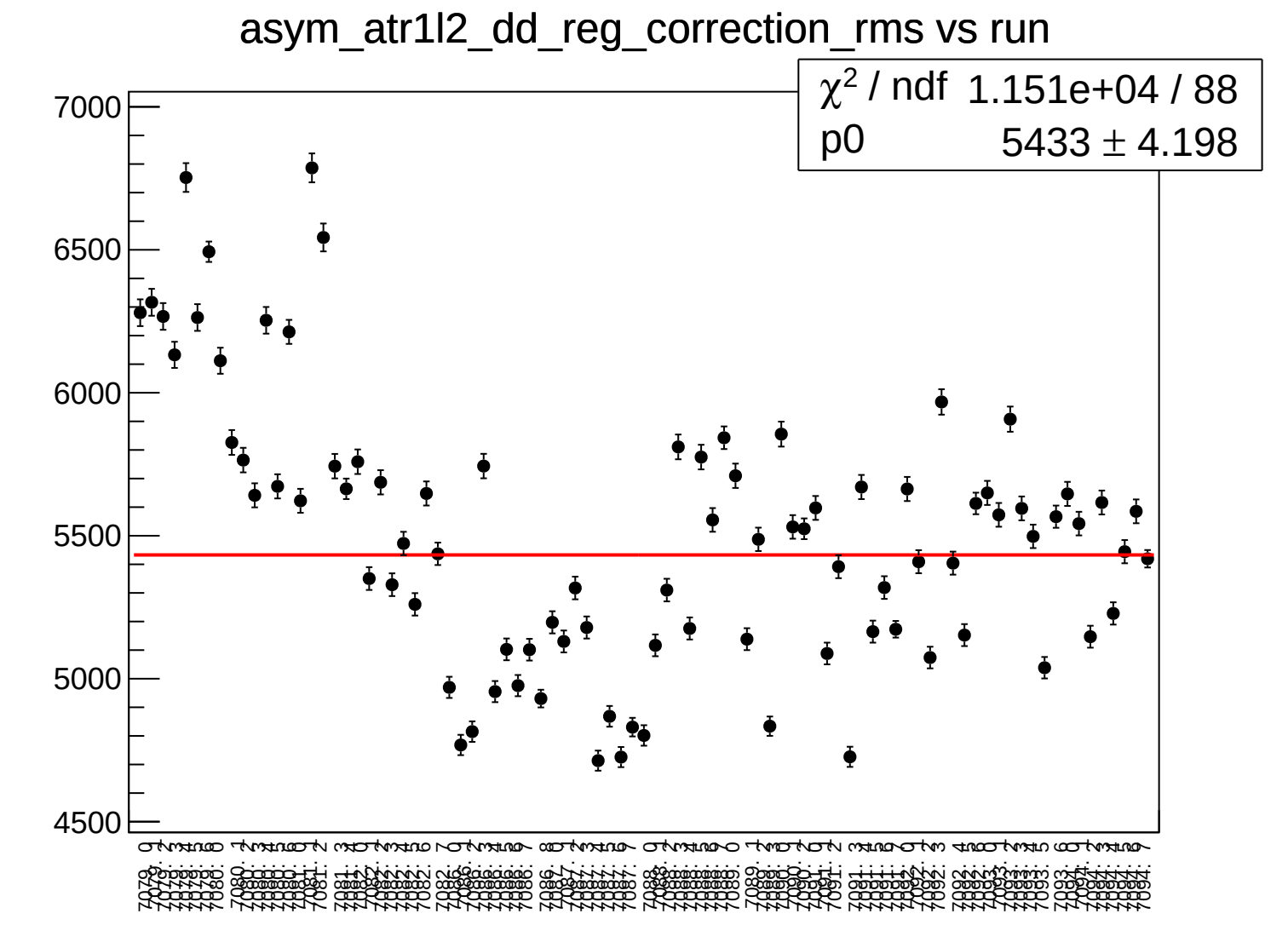

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 68.11 / 88
p0 1522 ± 2029
pull
Entries 89
Mean −1265
Std Dev 0

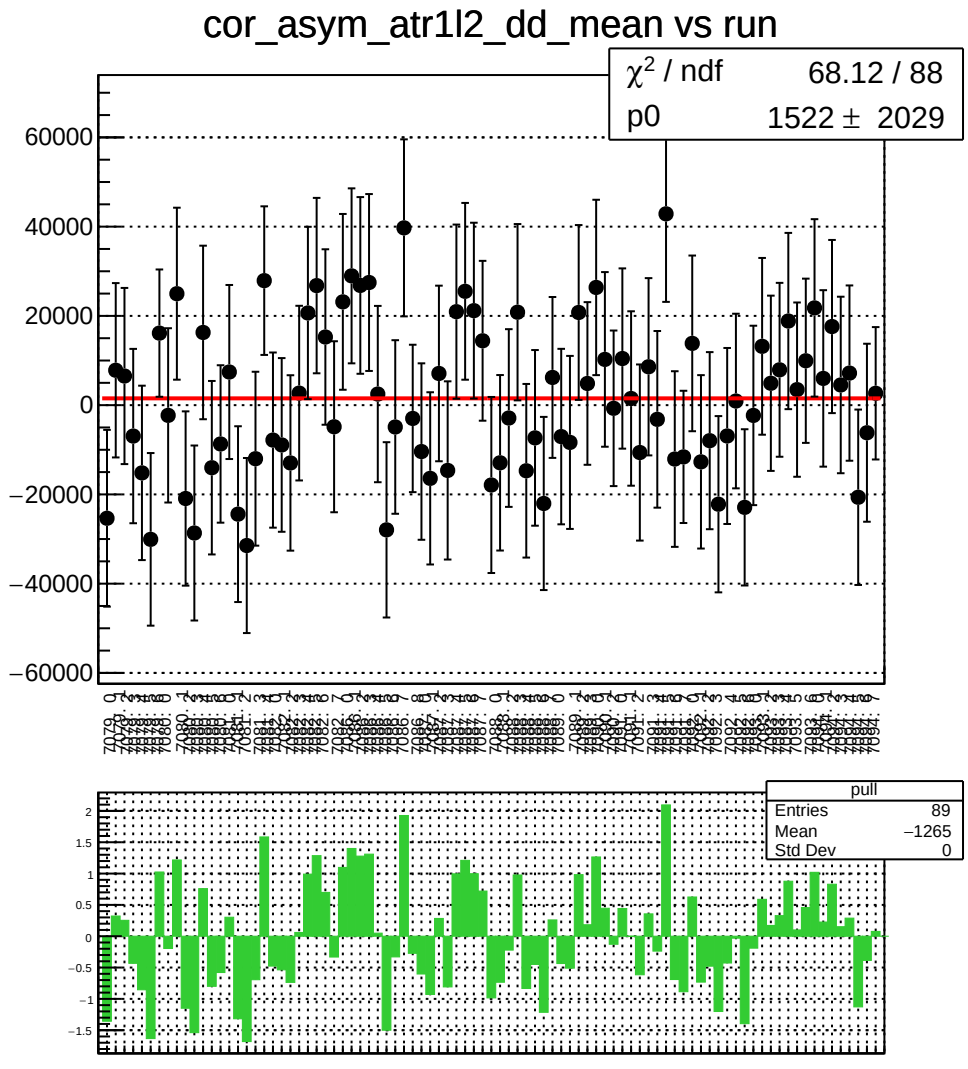

pull1D
Entries 89
Mean −0.001636
Std Dev 0.8748

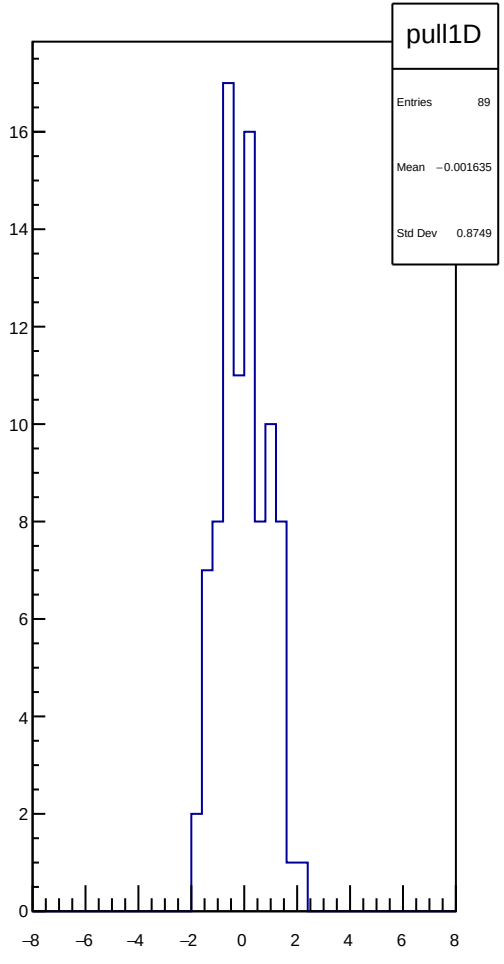

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 130.2 / 88
p0 1863 ± 1.435
1940
1920
1900
1880
1860
1840
1820

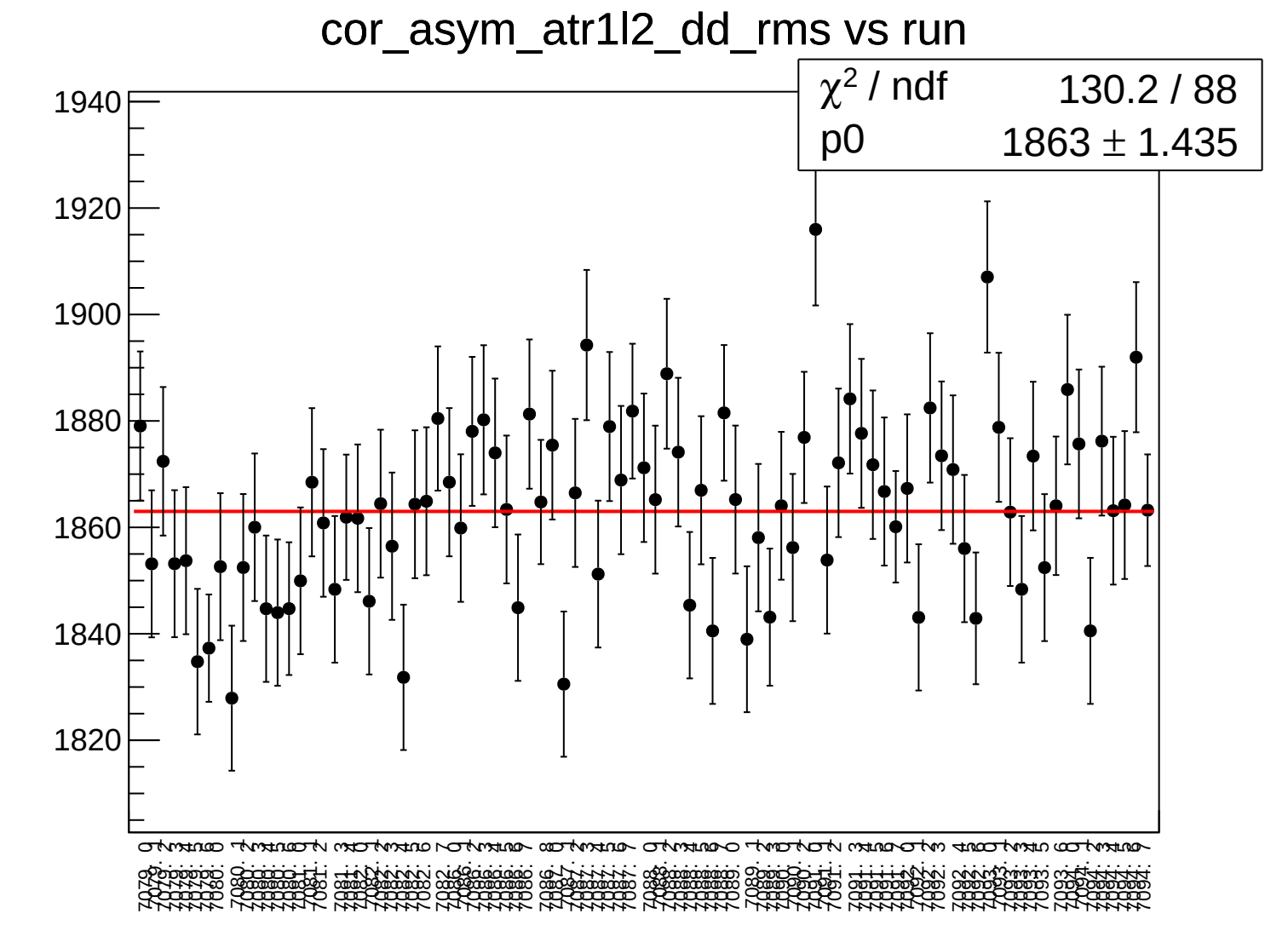

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 66.55 / 88
p0 1210 ± 5937
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −394.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

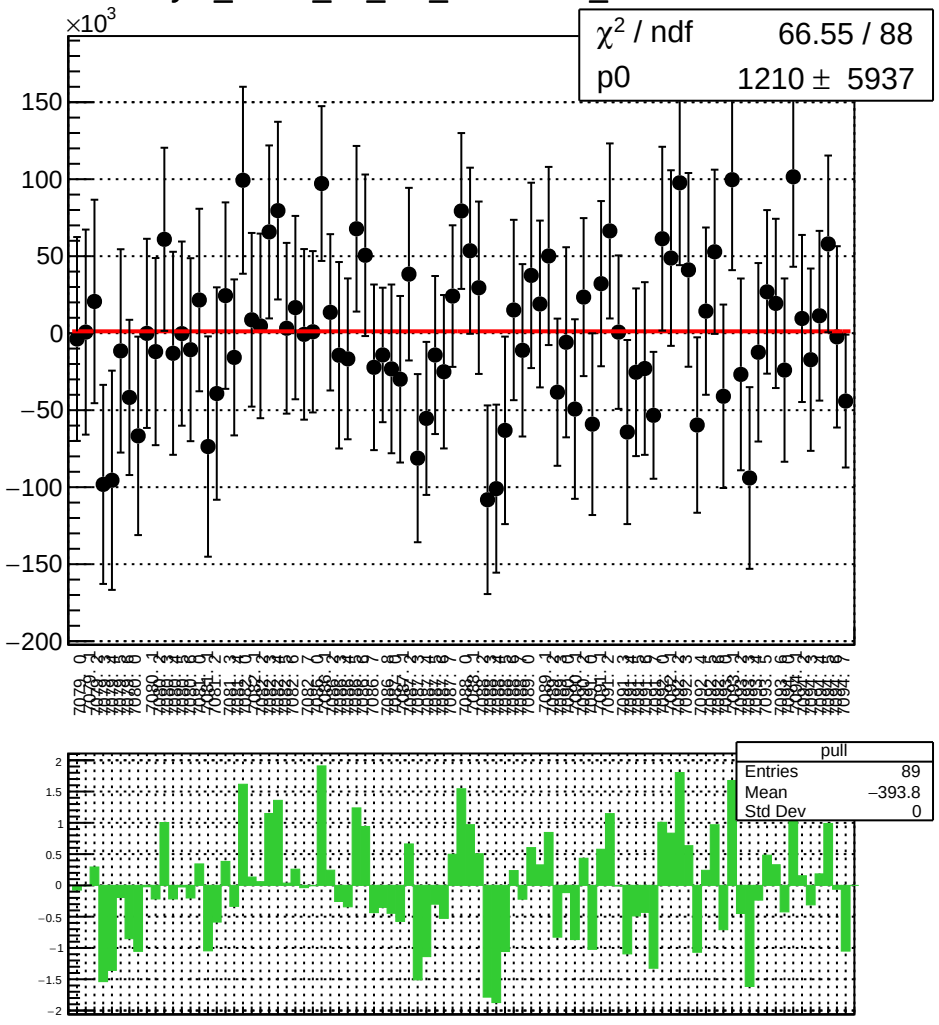

pull1D
Entries 89
Mean −0.00377
Std Dev 0.8647
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

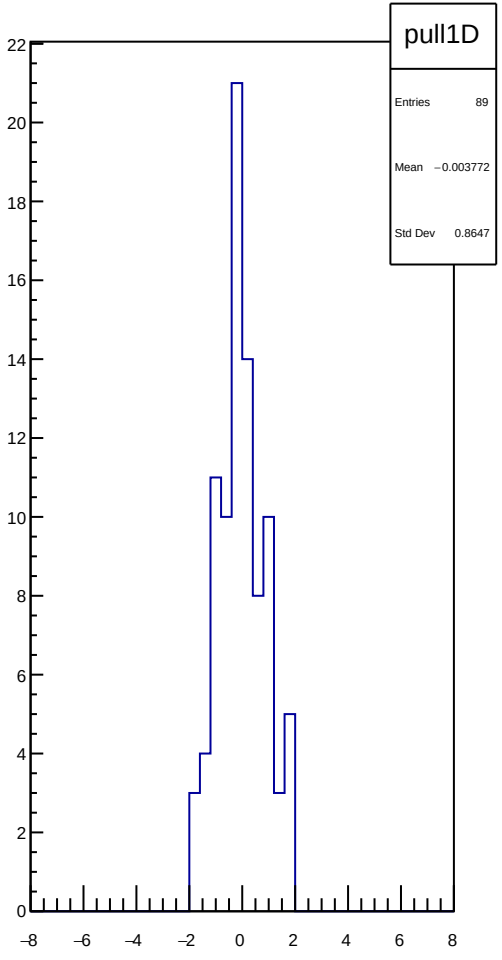

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.151e+04 / 88
p0 5433 ± 4.198
7000
6500
6000
5500
5000
4500

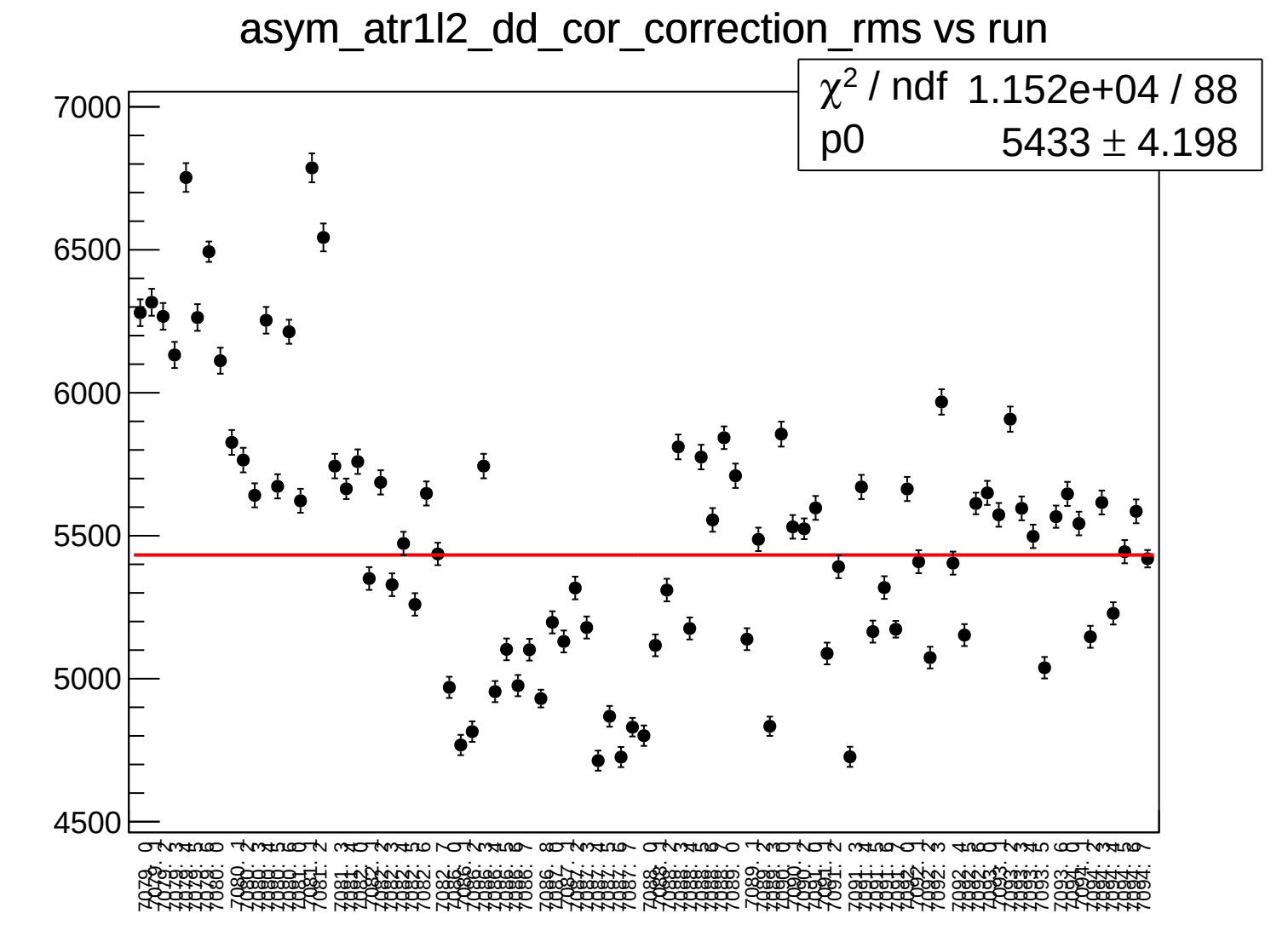

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 68.12 / 88
p0 1522 ± 2029
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1265
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

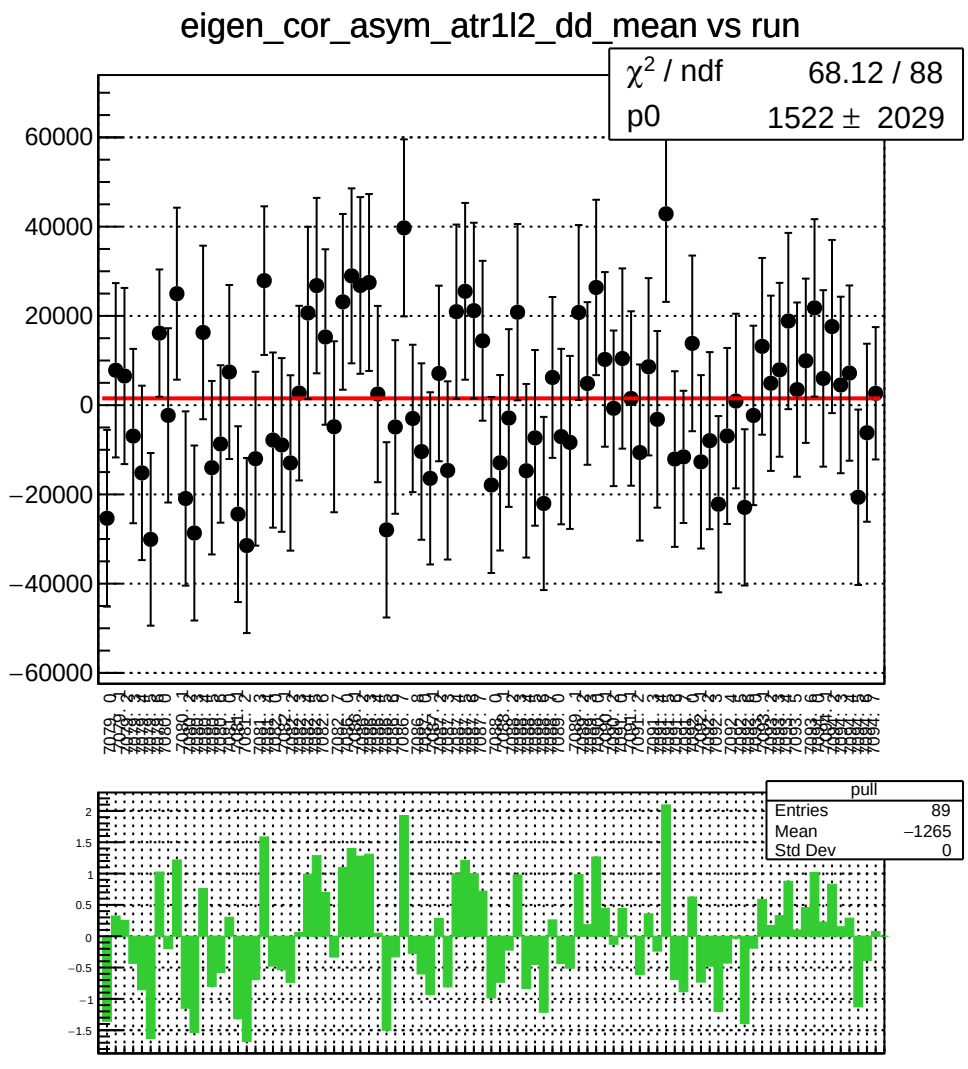

pull1D
Entries 89
Mean −0.001635
Std Dev 0.8749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

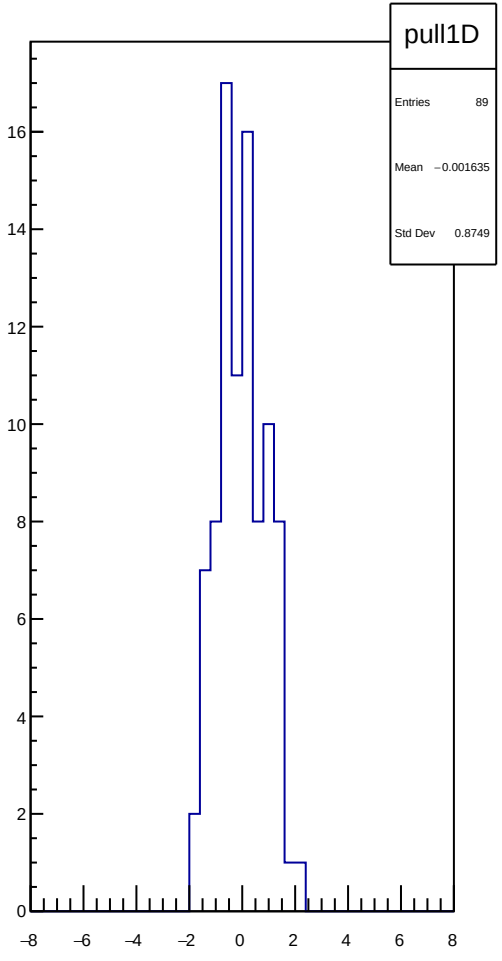

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 130.2 / 88
p0 1863 ± 1.435
1940
1920
1900
1880
1860
1840
1820

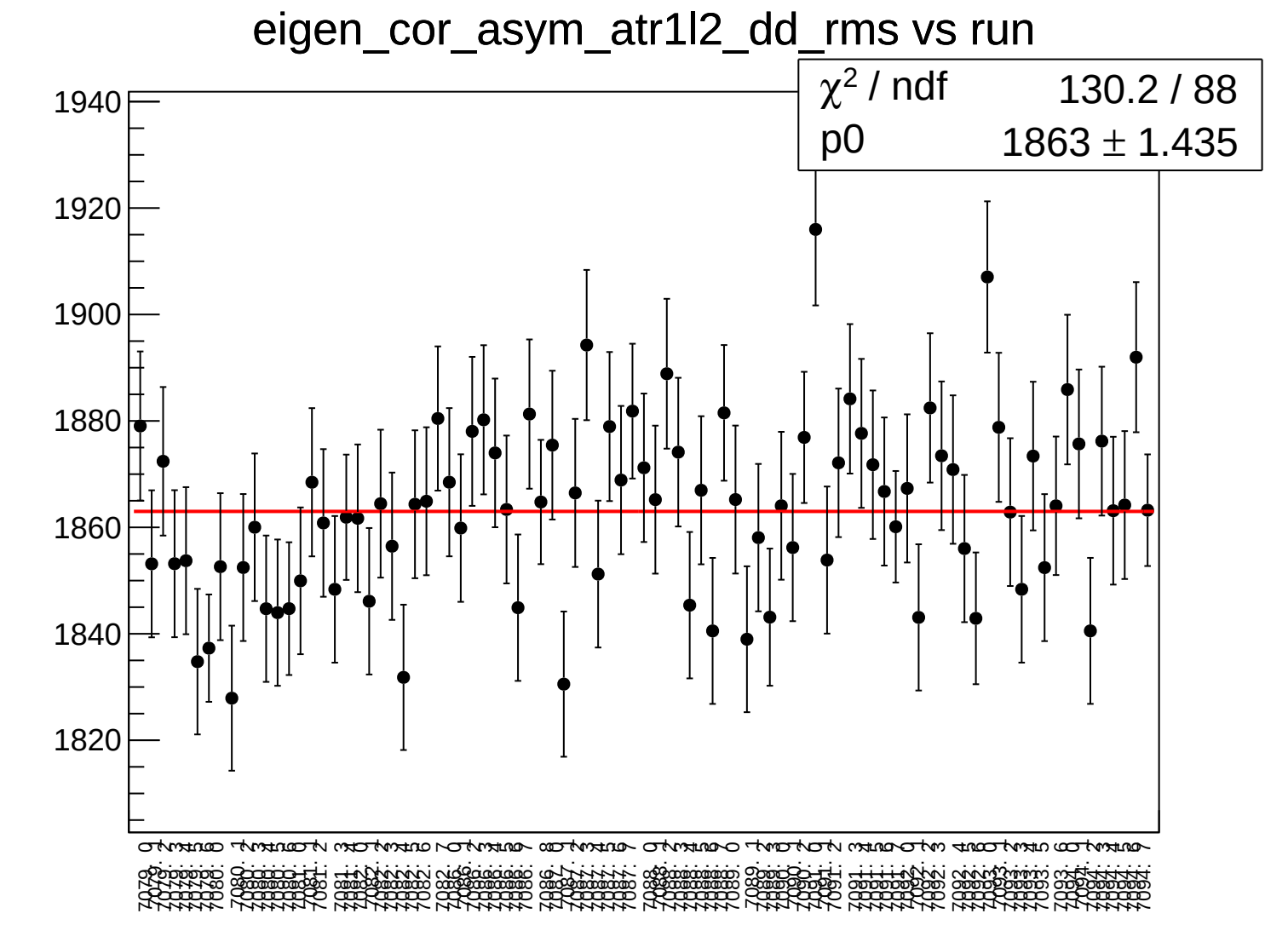

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 66.55 / 88
p0 1210 ± 5937
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −393.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

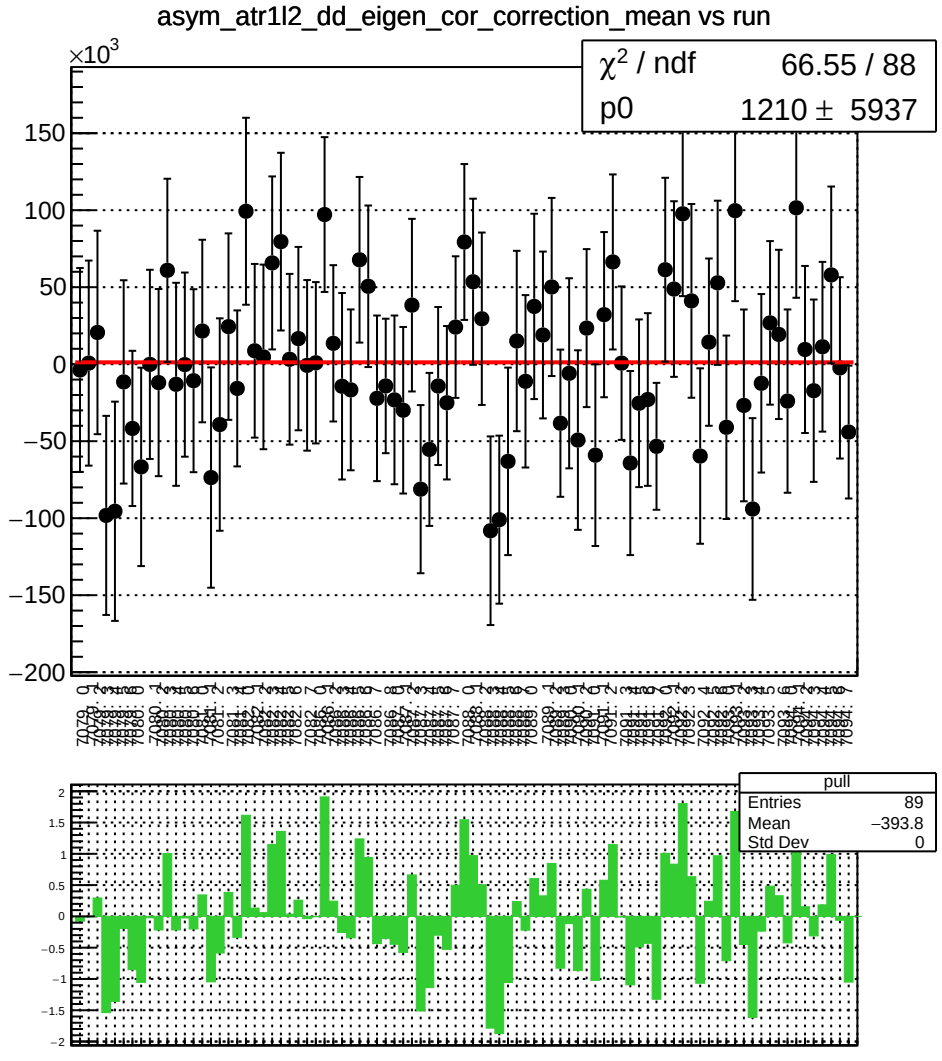

pull1D
Entries 89
Mean −0.003772
Std Dev 0.8647
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

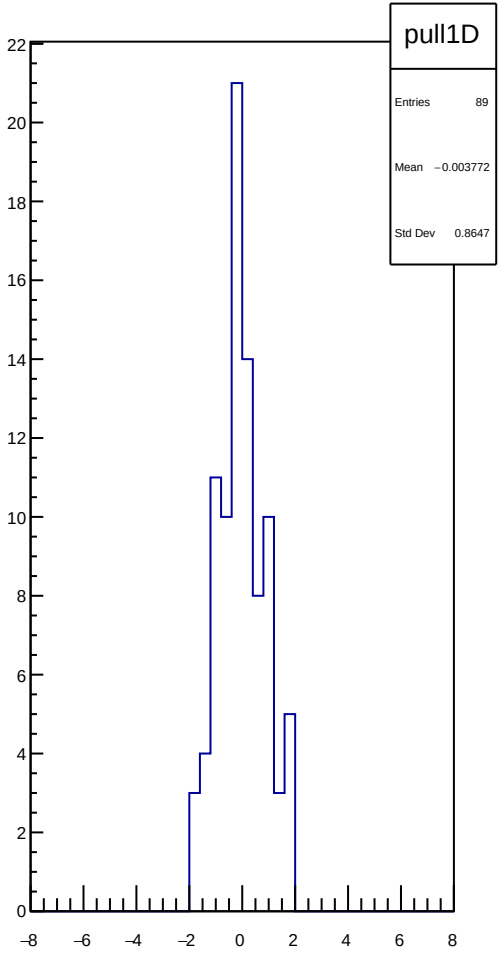

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.152e+04 / 88
p0 5433 ± 4.198
7000
6500
6000
5500
5000
4500

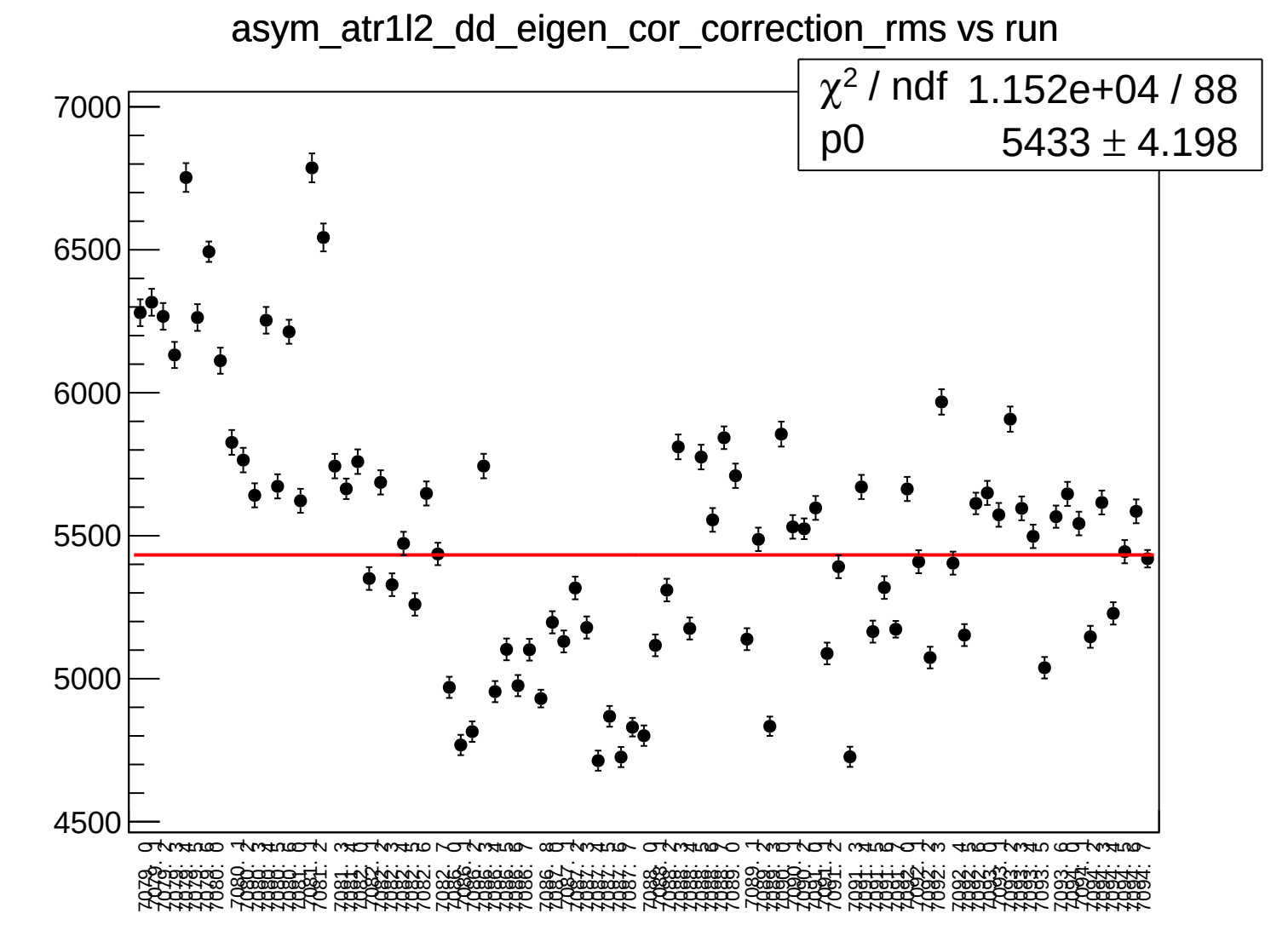

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 68.12 / 88
p0 1522 ± 2029
pull
Entries 89
Mean −1265
Std Dev 0

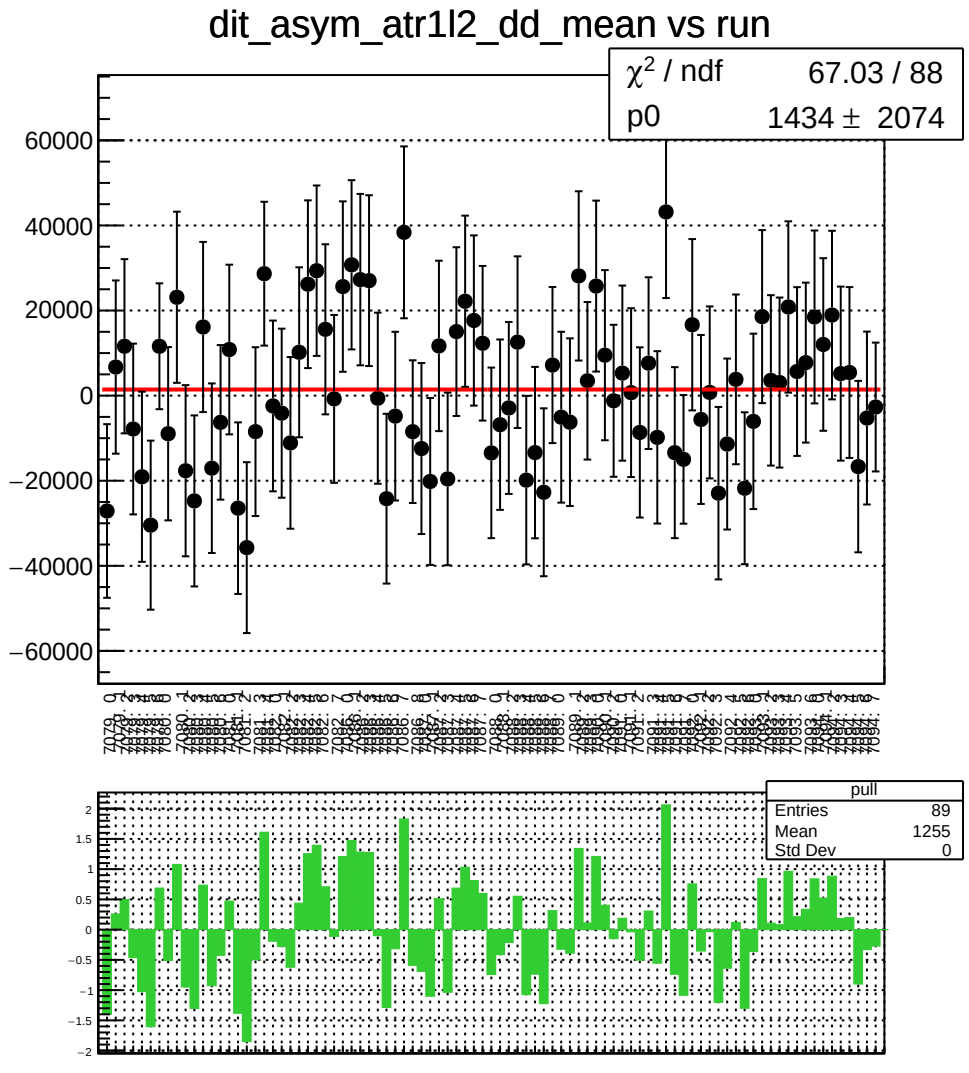

pull1D
Entries 89
Mean −0.001635
Std Dev 0.8749

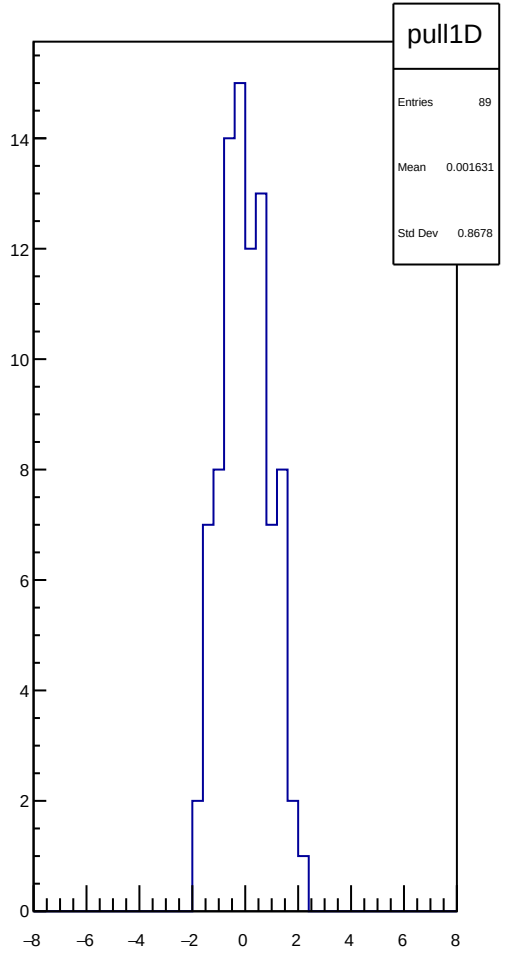

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 130.2 / 88
p0 1863 ± 1.435
1940
1920
1900
1880
1860
1840
1820

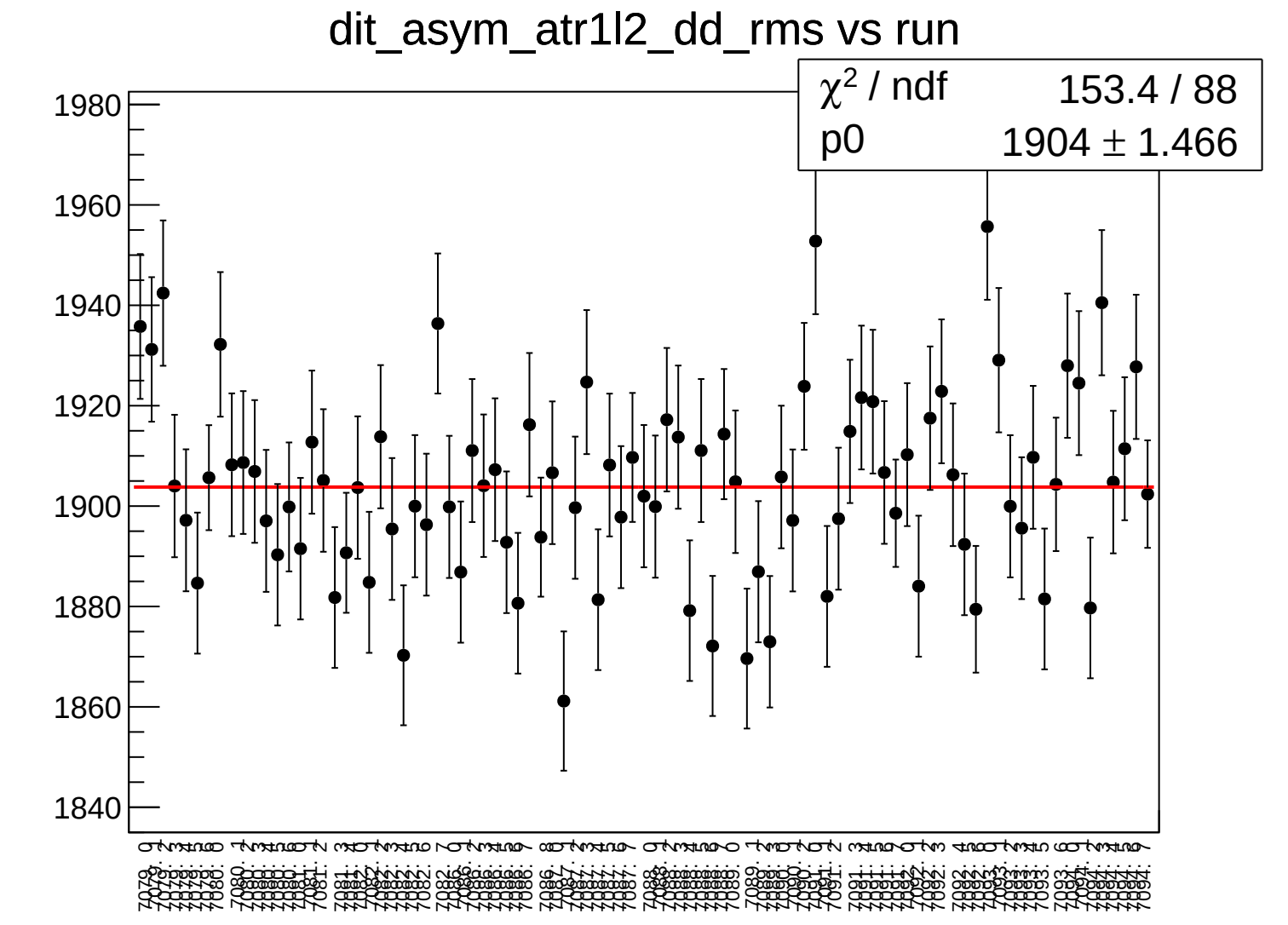

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.55 / 88
p0 1210 ± 5937
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −393.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

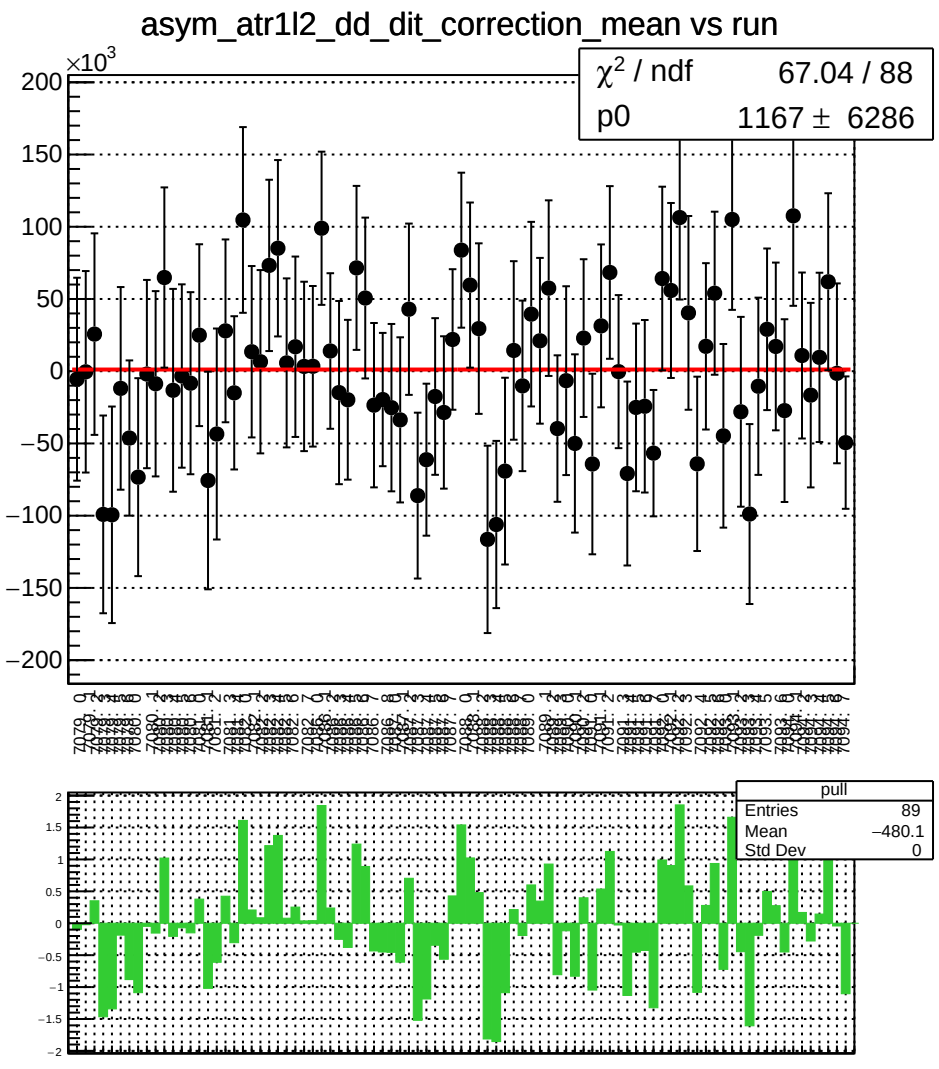

pull1D
Entries 89
Mean −0.003772
Std Dev 0.8647
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

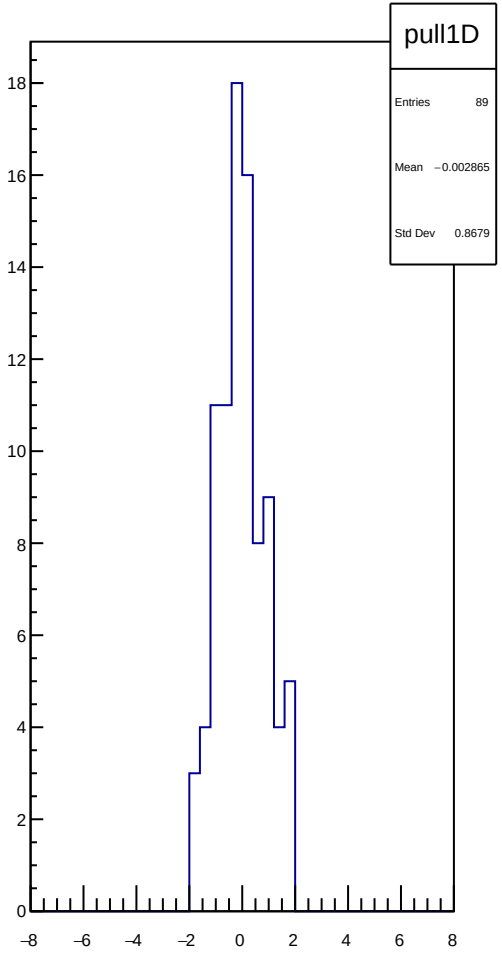

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.152e+04 / 88
p0 5433 ± 4.198
7000
6500
6000
5500
5000
4500

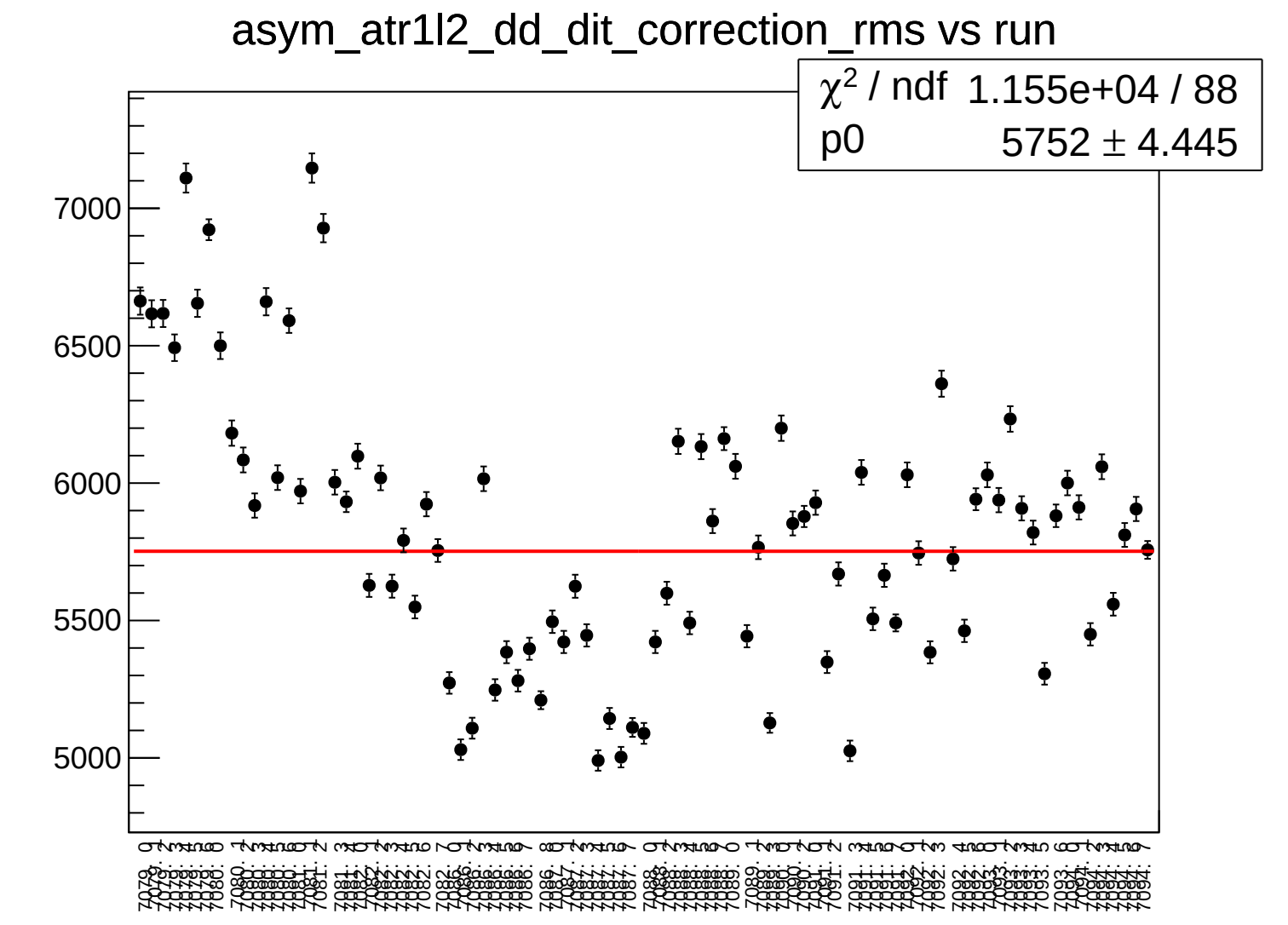

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 67.03 / 88
p0 1434 ± 2074
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1255
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

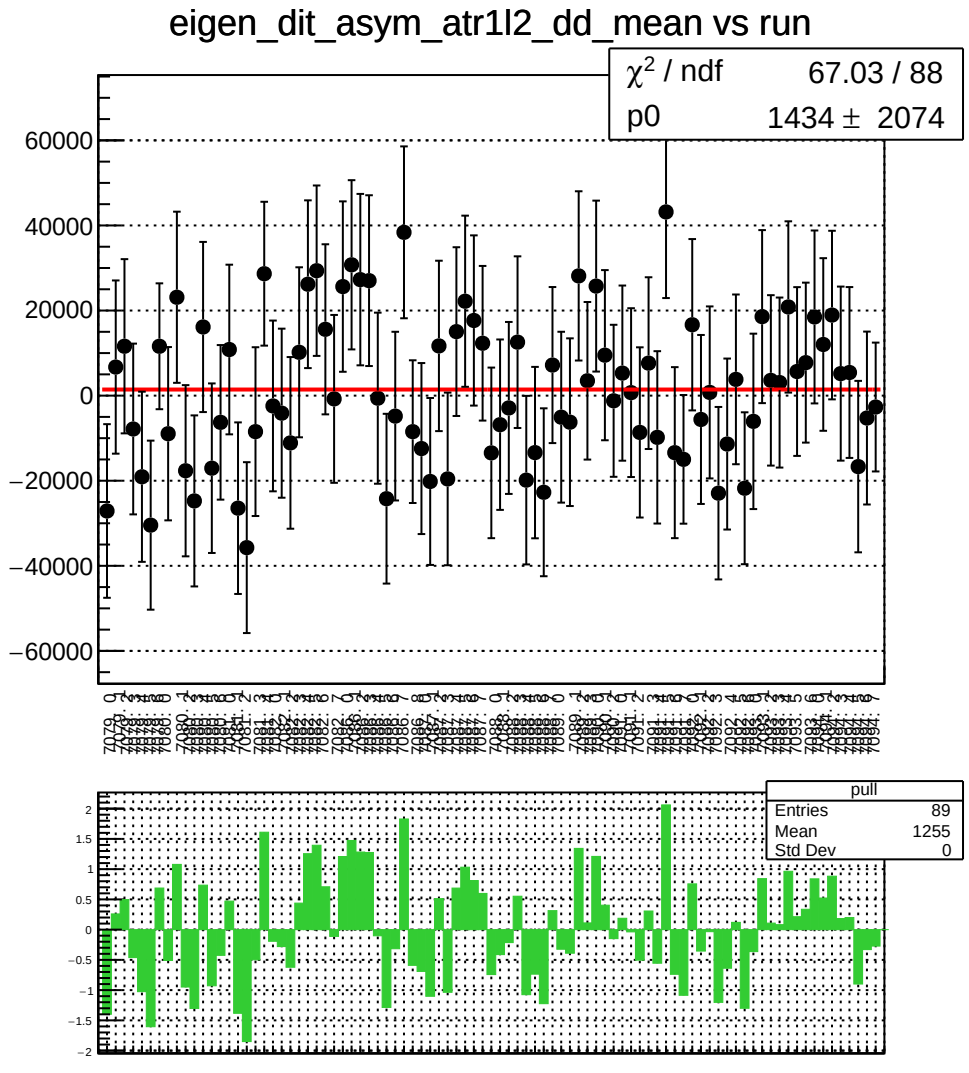

pull1D
Entries 89
Mean 0.001631
Std Dev 0.8678
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

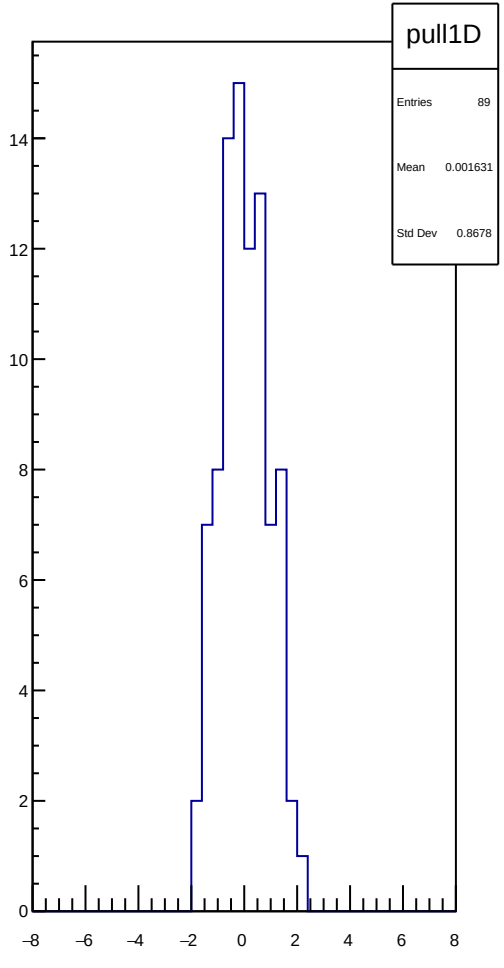

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 153.4 / 88
p0 1904 ± 1.466
1980
1960
1940
1920
1900
1880
1860
1840

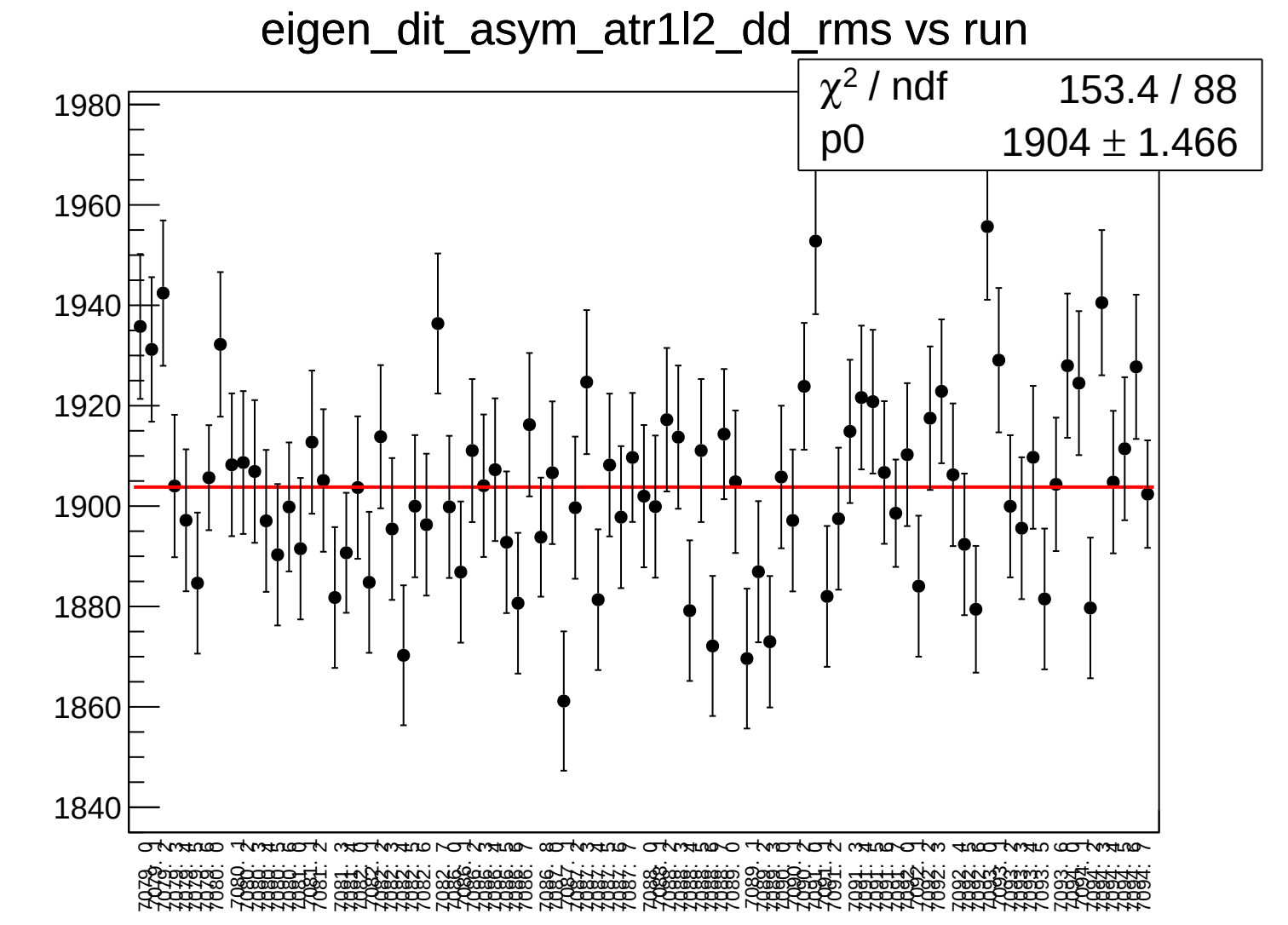

asym_atr1l2_dd_dit_correction_mean vs run
χ² / ndf 67.04 / 88
p0 1167 ± 6286
×10³
pull
Entries 89
Mean −480.1
Std Dev 0

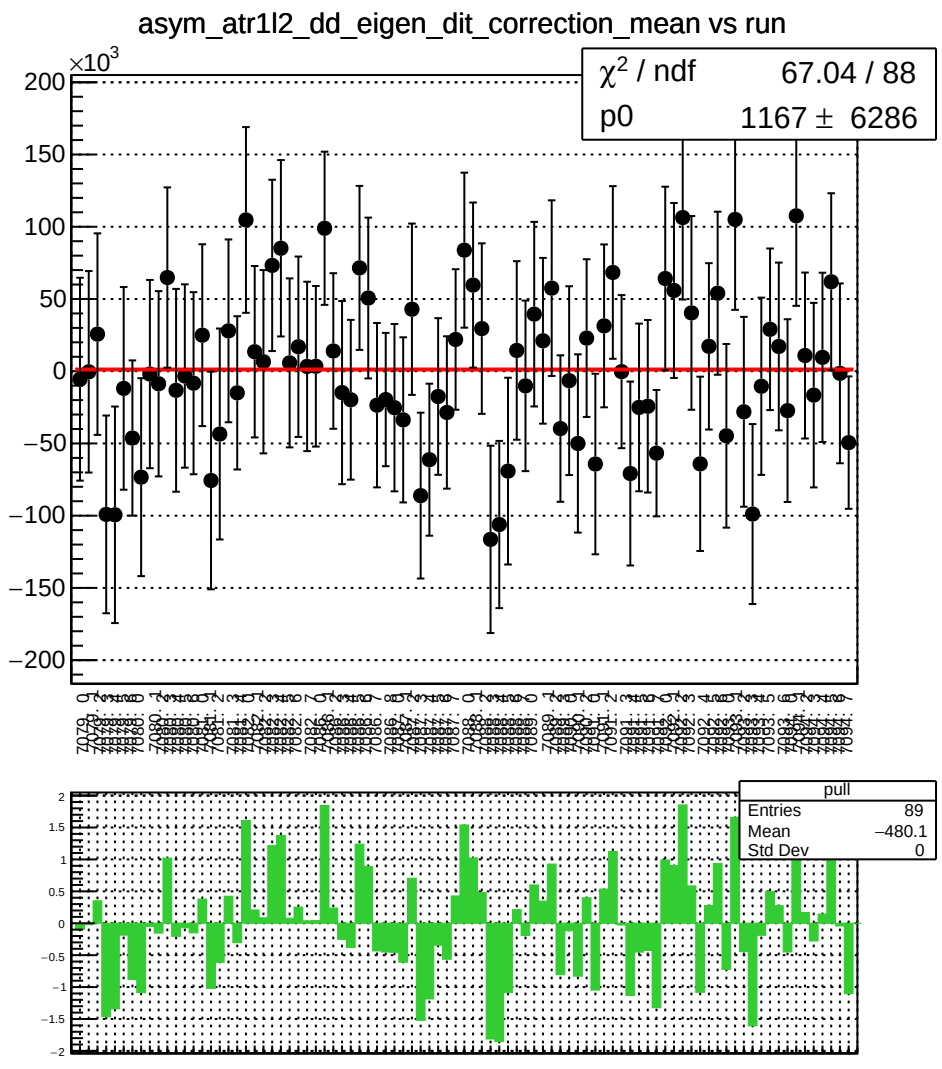

pull1D
Entries 89
Mean −0.002865
Std Dev 0.8679

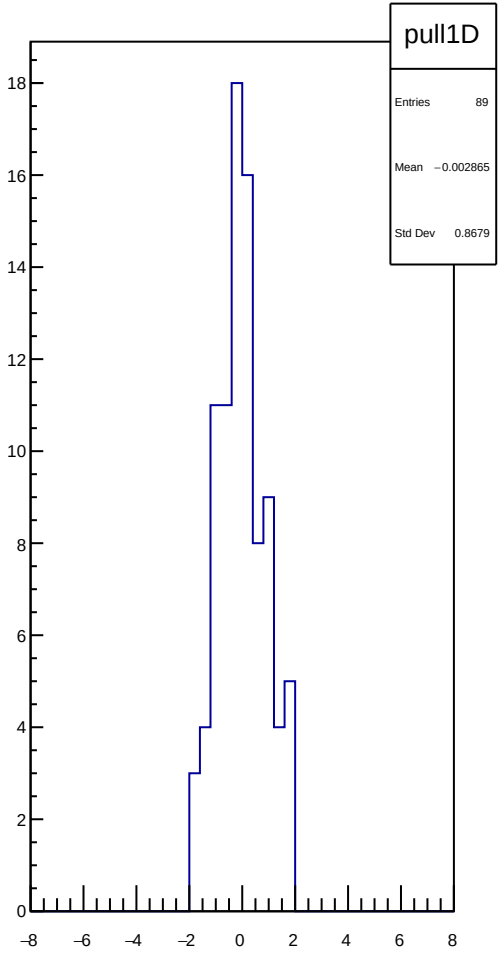

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.155e+04 / 88
p0 5752 ± 4.445
7000
6500
6000
5500
5000

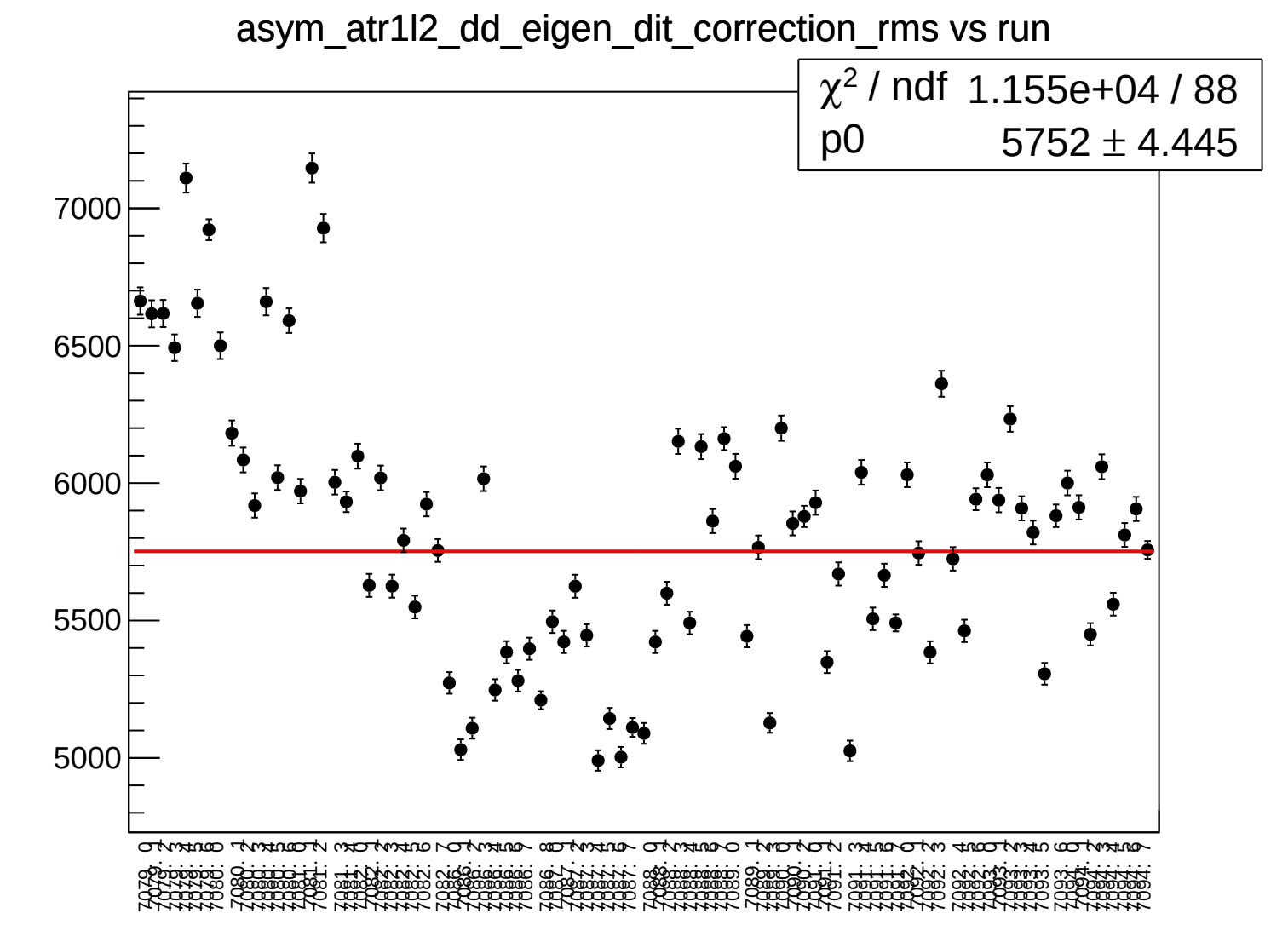

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 67.03 / 88
p0 1434 ± 2074
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1255
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

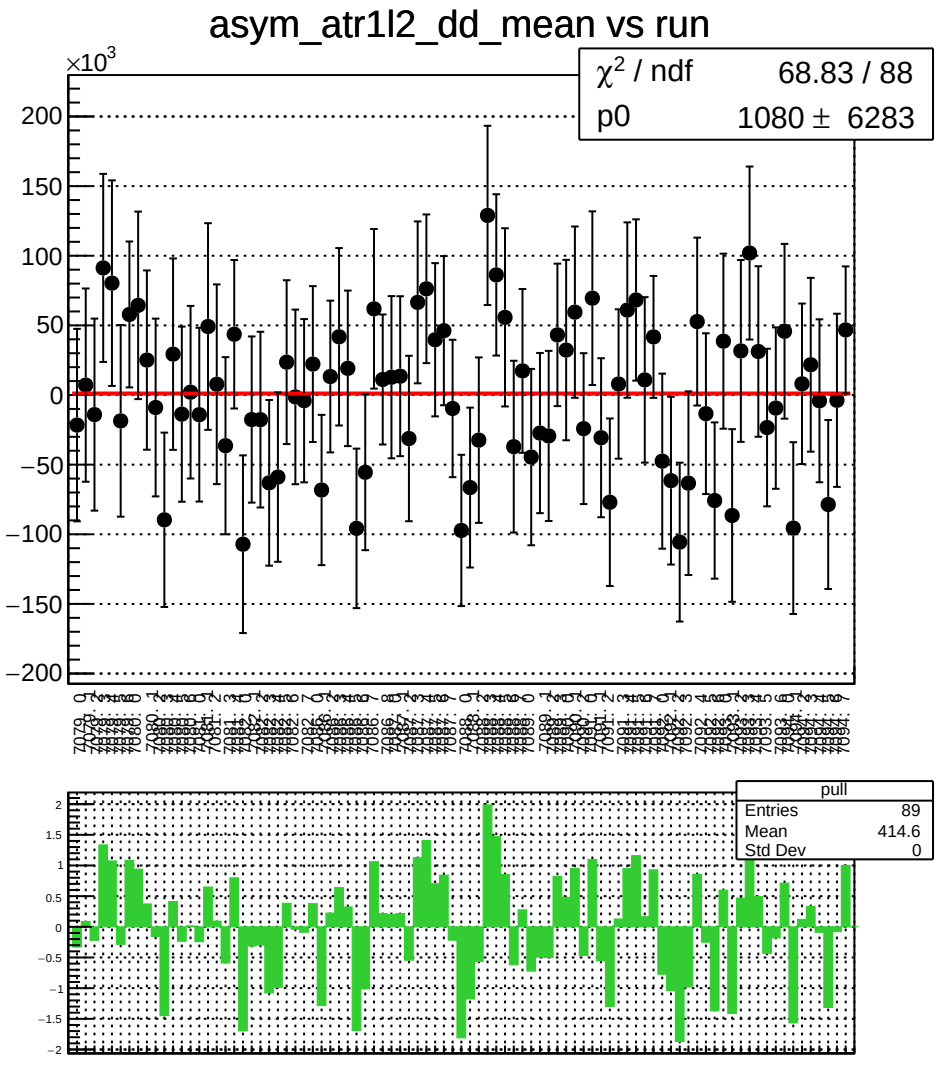

pull1D
Entries 89
Mean 0.001631
Std Dev 0.8678
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

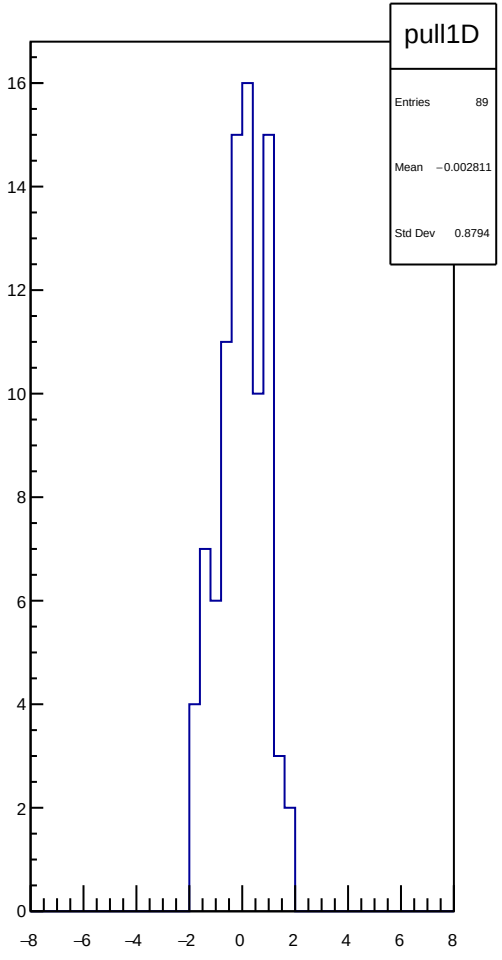

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 153.4 / 88
p0 1904 ± 1.466
1980
1960
1940
1920
1900
1880
1860
1840

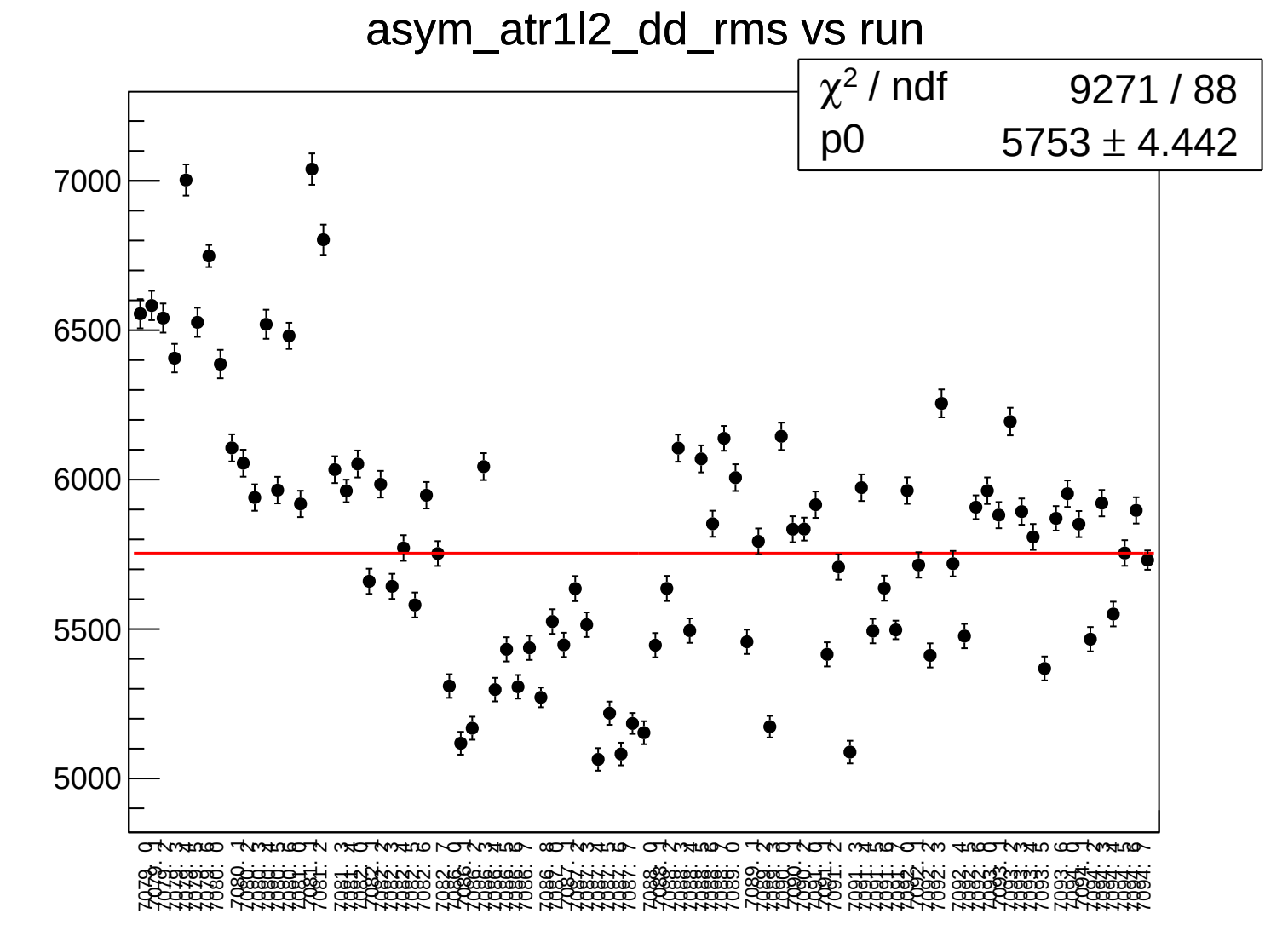

asym_atr1l2_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.04 / 88
p0 1167 ± 6286
×10³
pull
Entries 89
Mean −480.1
Std Dev 0

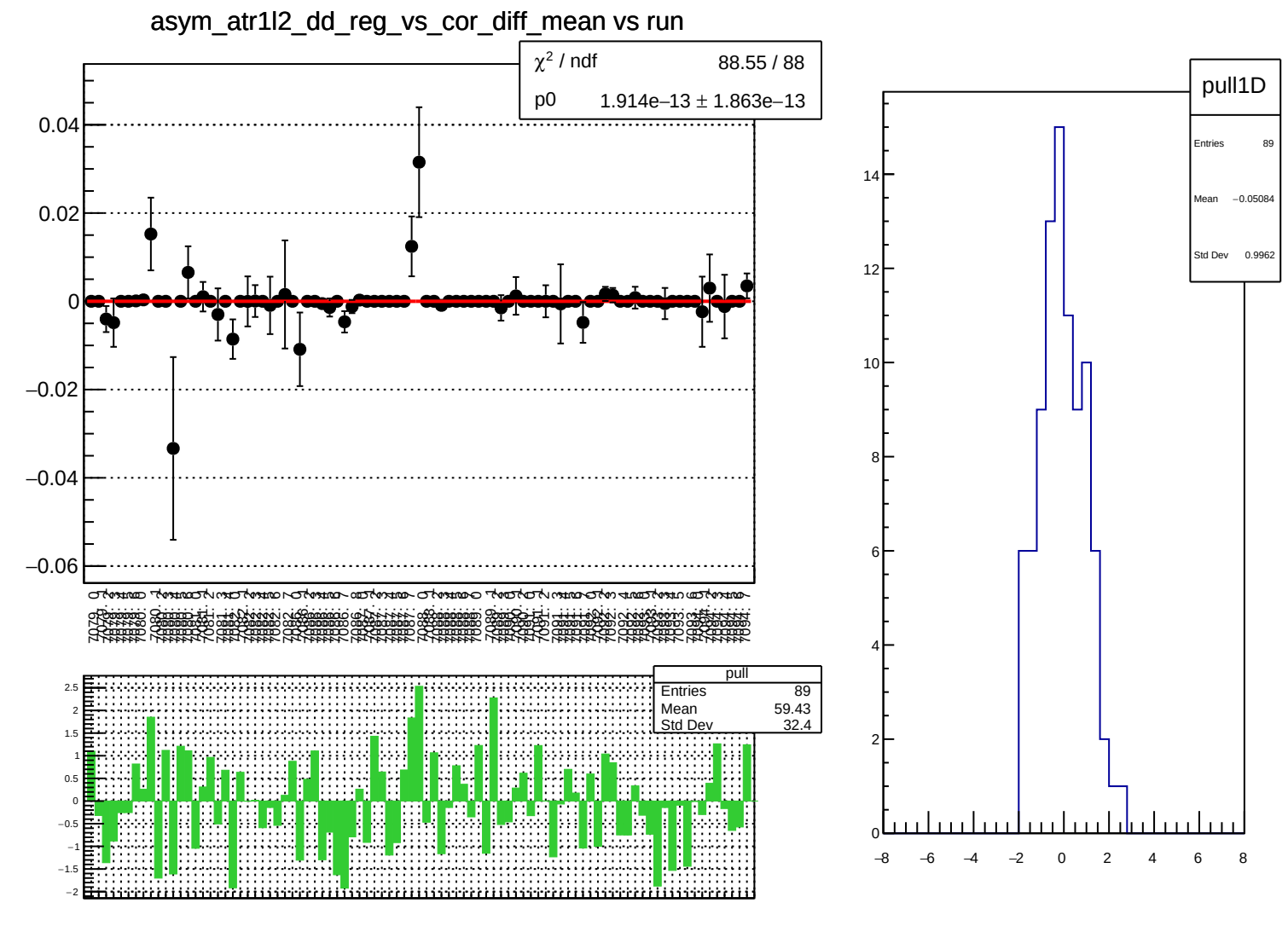

pull1D
Entries 89
Mean −0.002865
Std Dev 0.8679

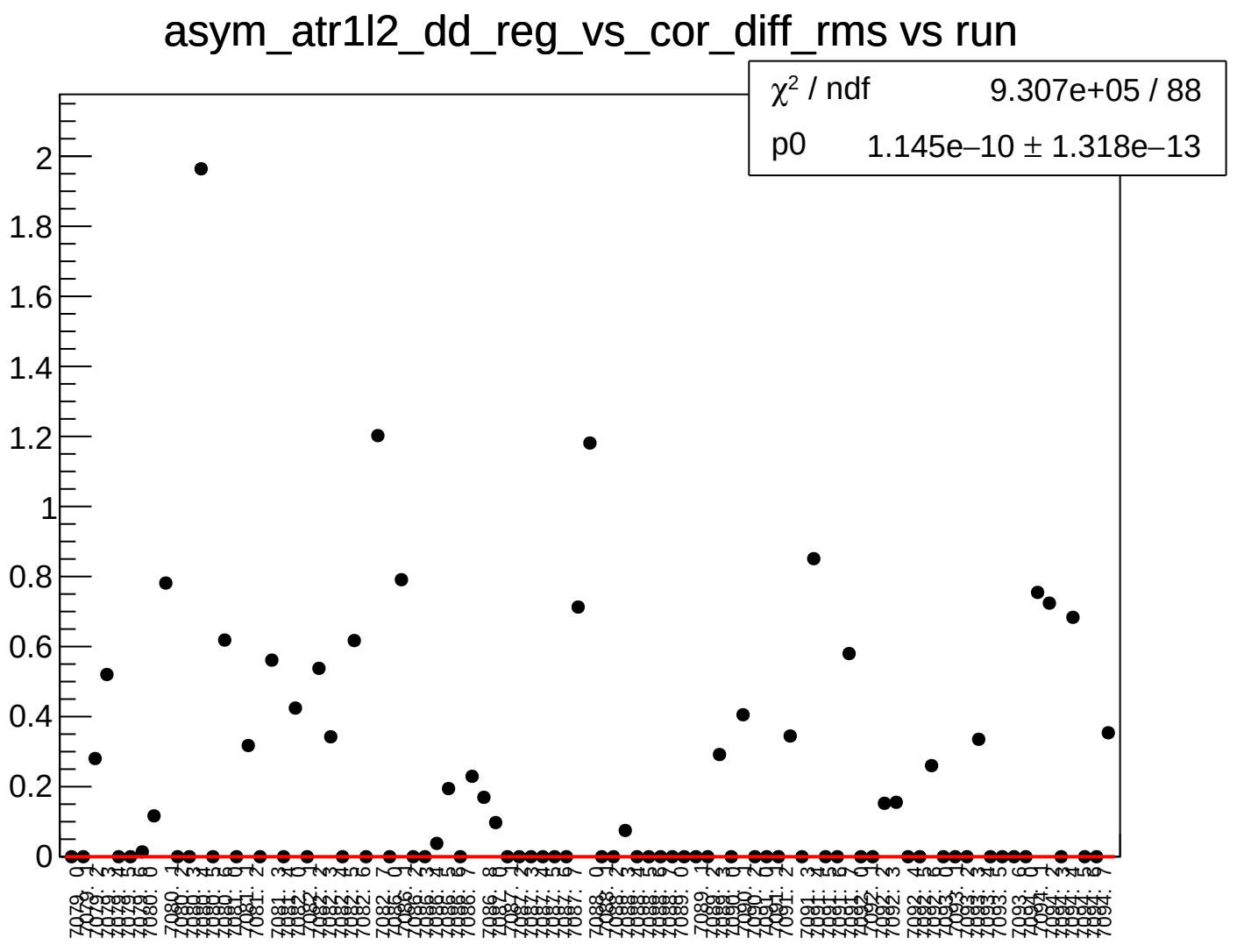

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.155e+04 / 88
p0 5752 ± 4.445
7000
6500
6000
5500
5000

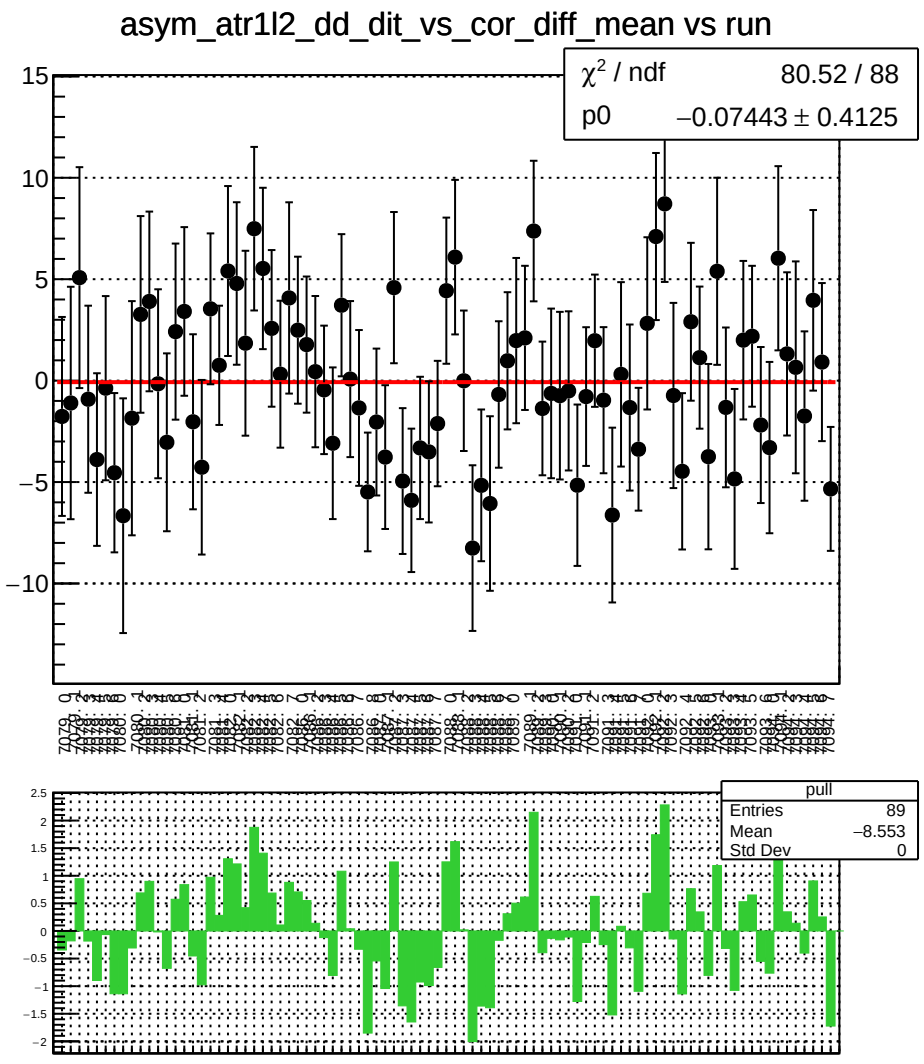

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 68.83 / 88
p0 1080 ± 6283
pull
Entries 89
Mean 414.6
Std Dev 0

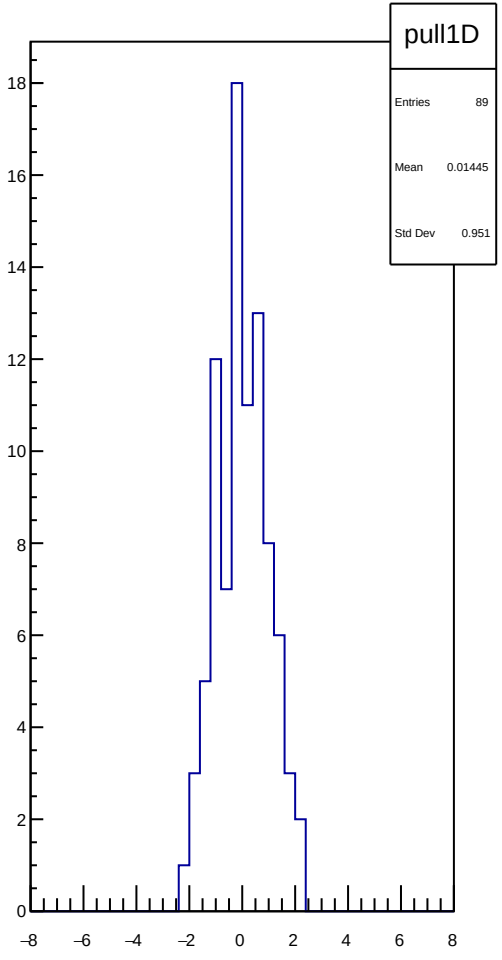

pull1D
Entries 89
Mean −0.002811
Std Dev 0.8794

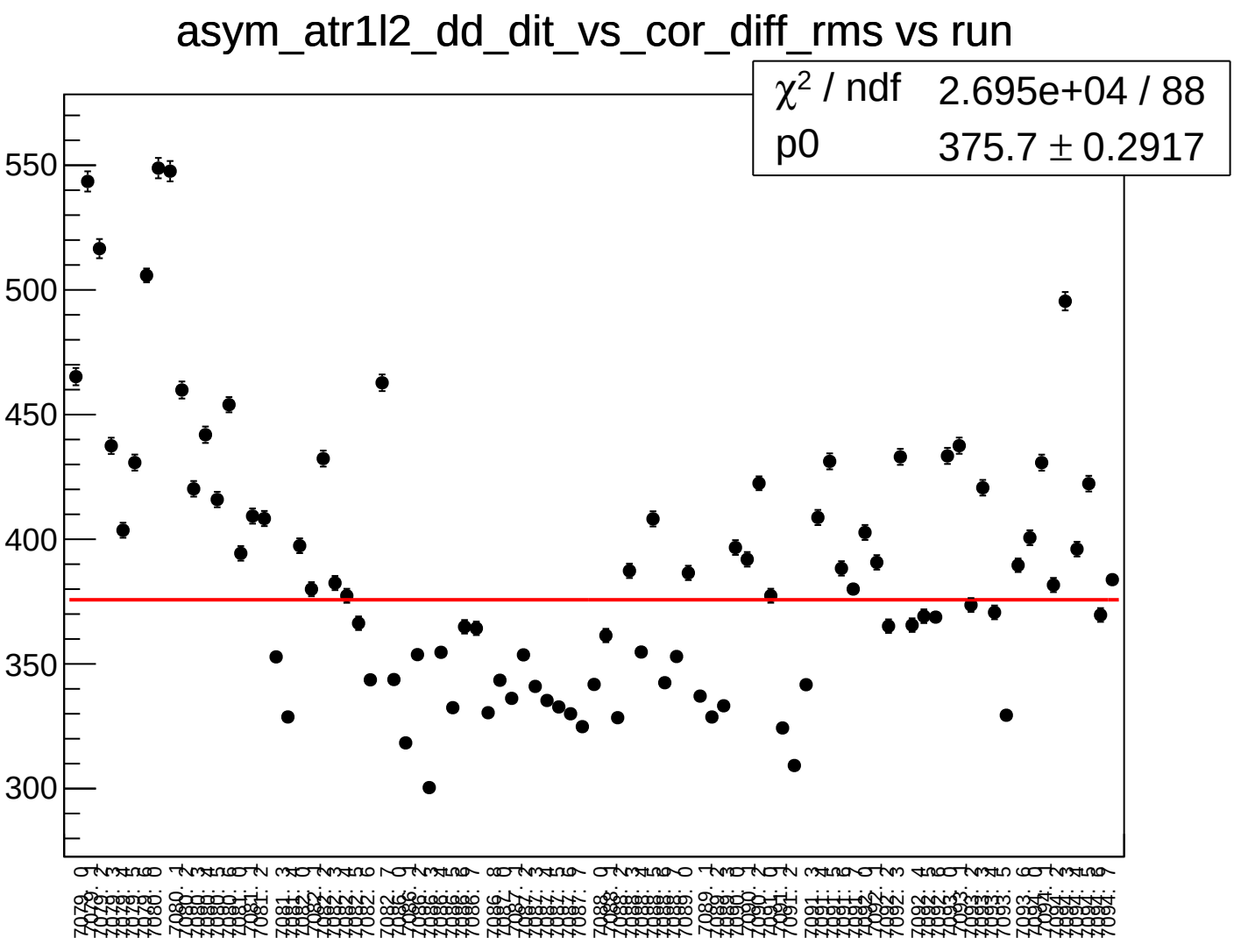

asym_atr1l2_dd_rms vs run
χ^2 / ndf 9271 / 88
p0 5753 ± 4.442
7000
6500
6000
5500
5000

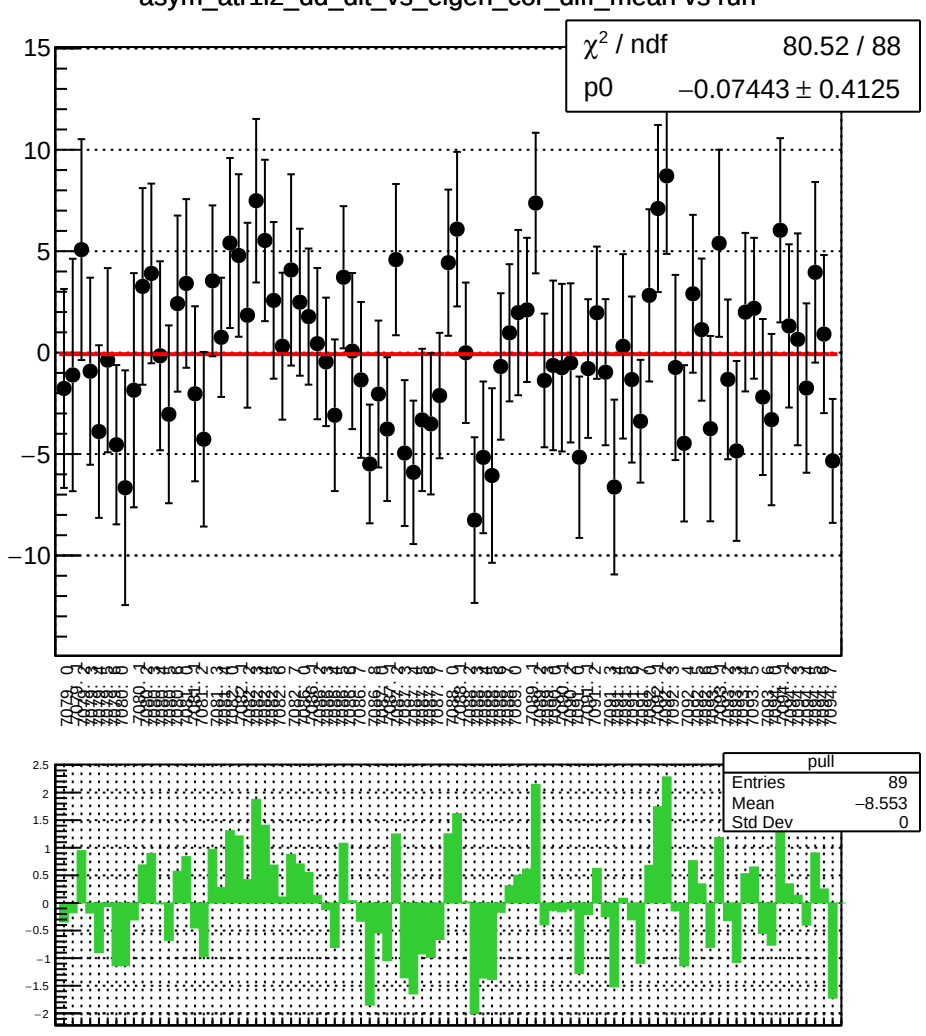

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.55 / 88
p0 1.914e−13 ± 1.863e−13
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 59.43
Std Dev 32.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.05084
Std Dev 0.9962
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

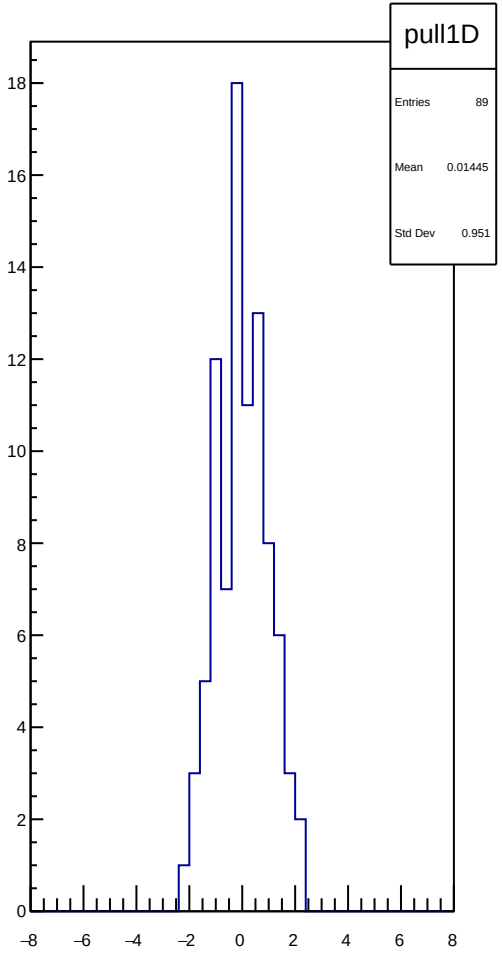

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.307e+05 / 88
p0 1.145e−10 ± 1.318e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

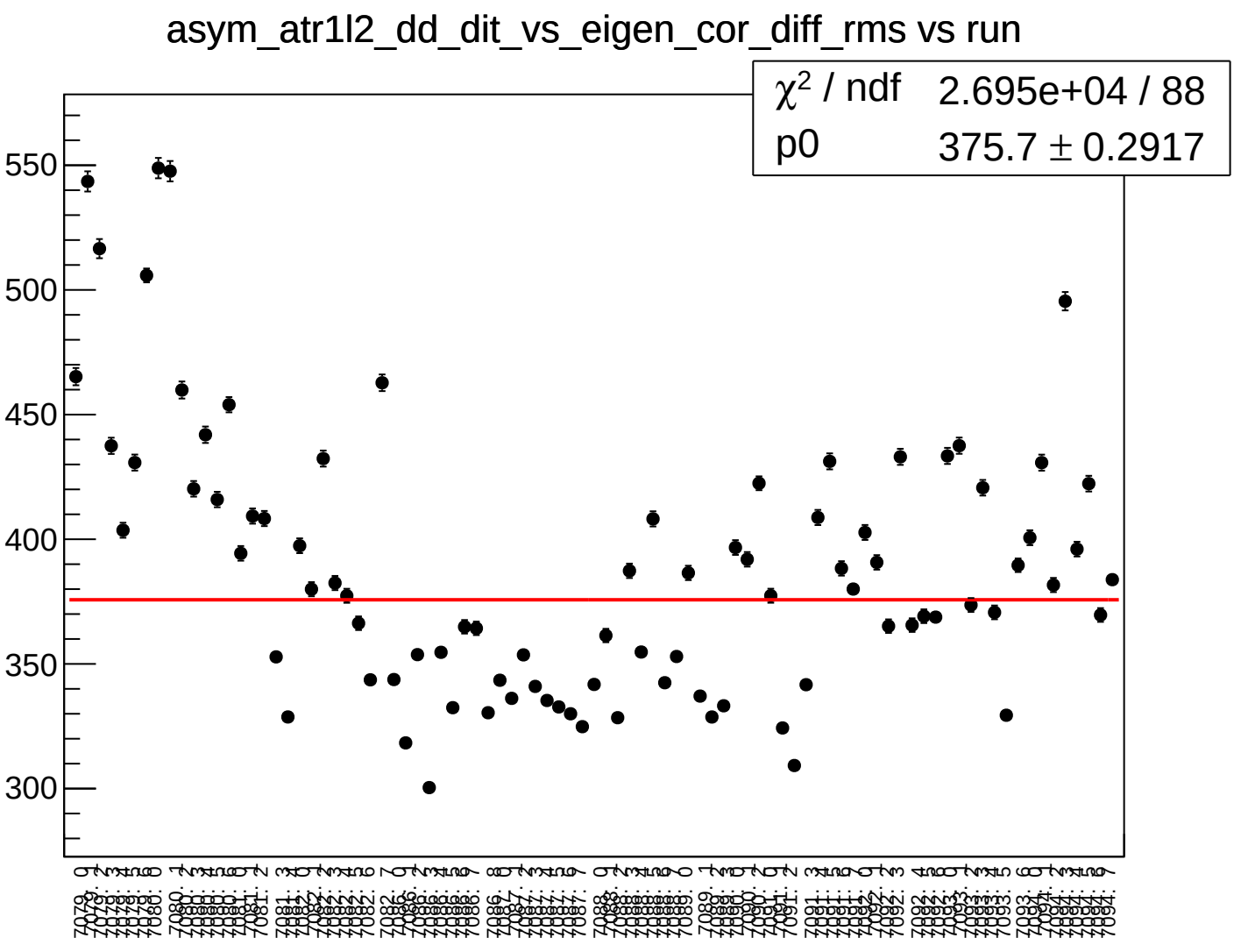

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.52 / 88
p0 −0.07443 ± 0.4125
pull
Entries 89
Mean −8.553
Std Dev 0

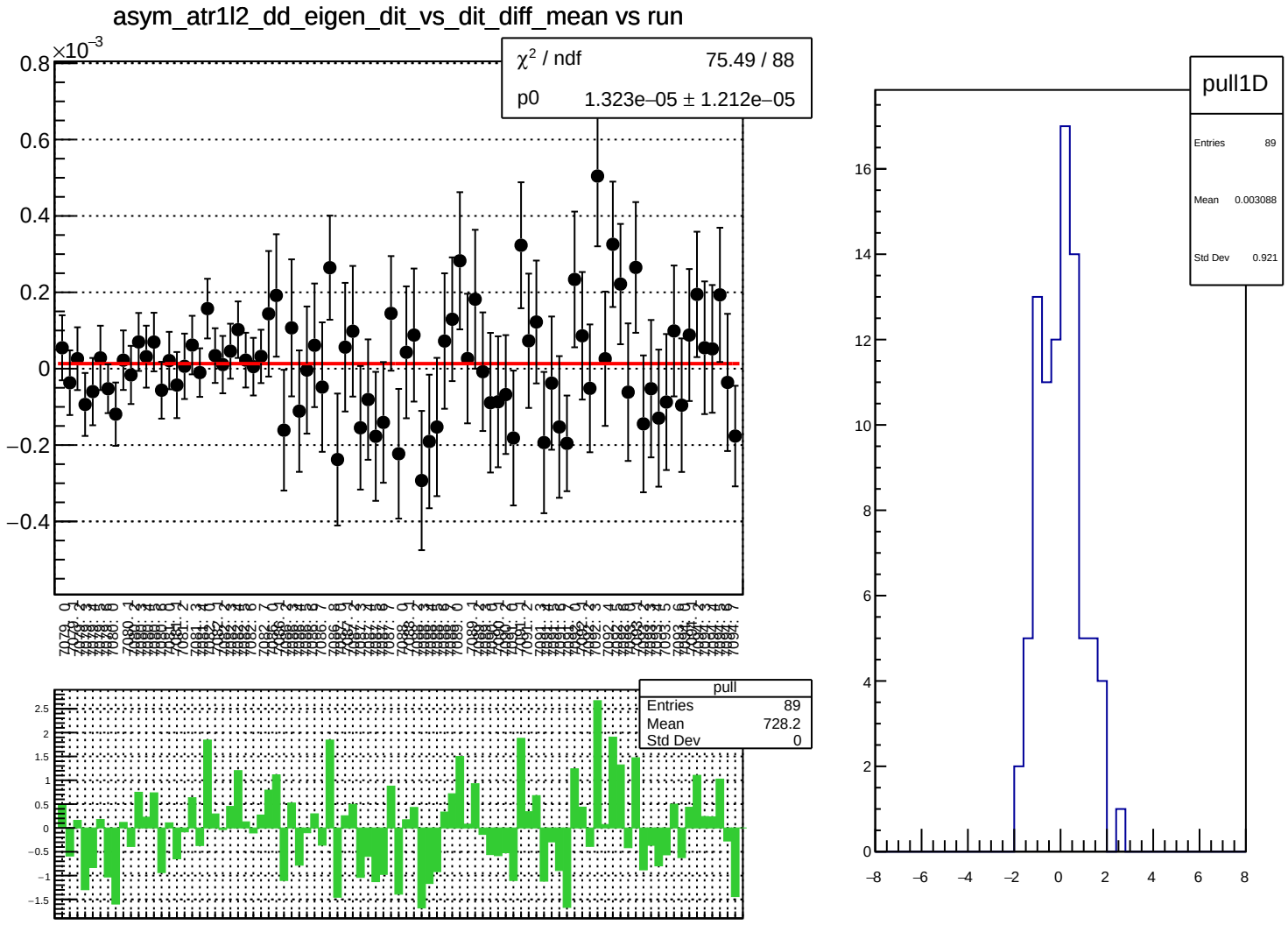

pull1D
Entries 89
Mean 0.01445
Std Dev 0.951

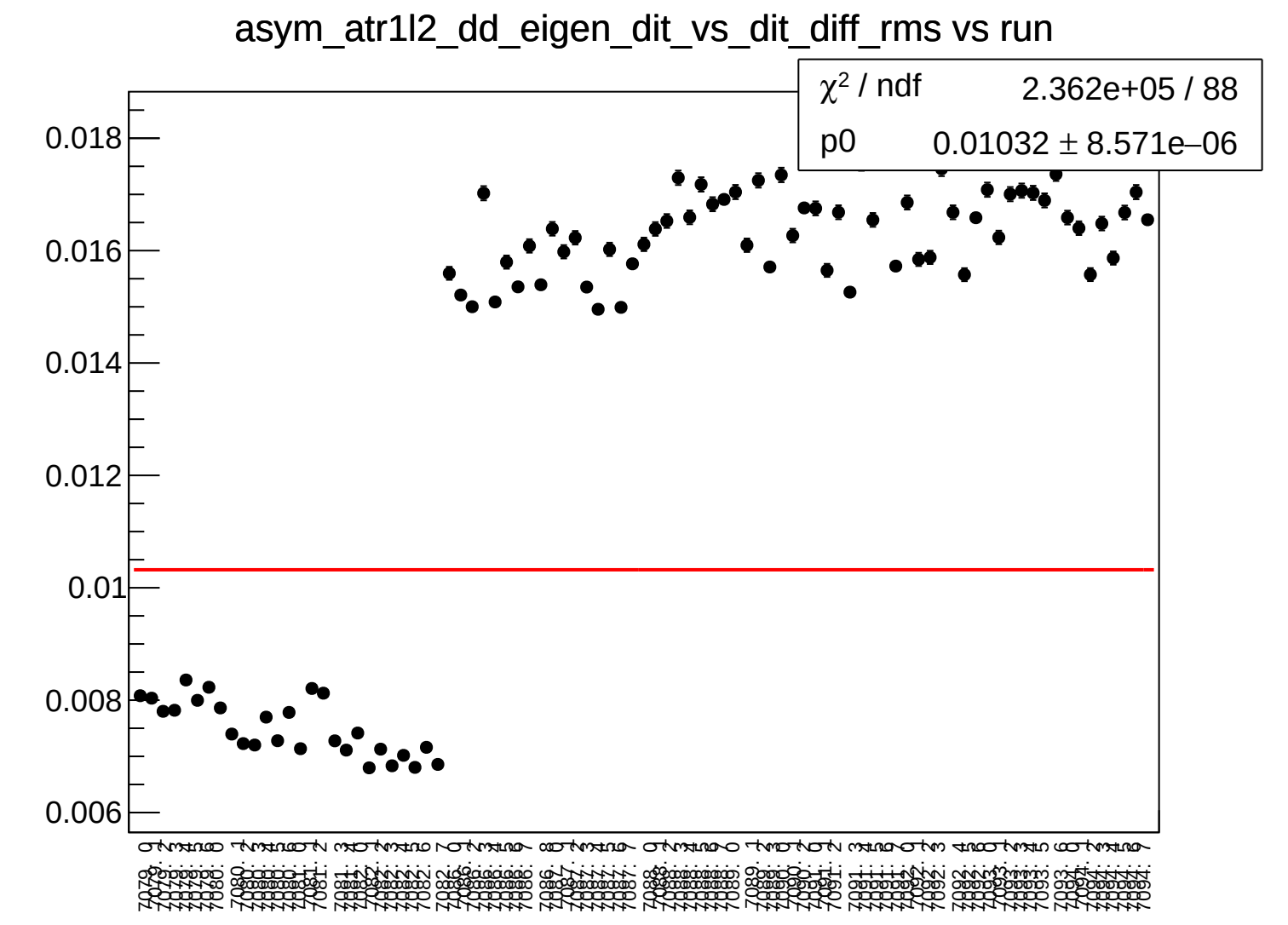

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.695e+04 / 88
p0 375.7 ± 0.2917
550
500
450
400
350
300

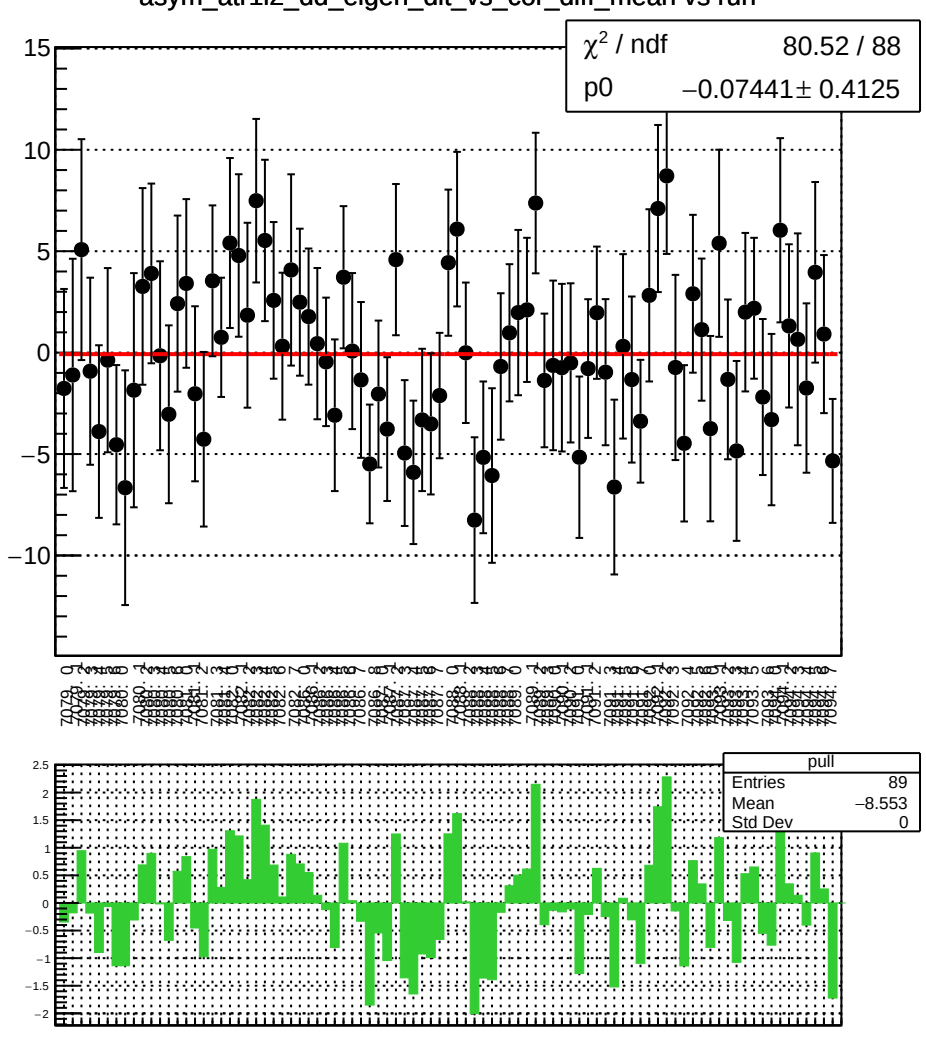

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.52 / 88
p0 −0.07443 ± 0.4125
pull
Entries 89
Mean −8.553
Std Dev 0

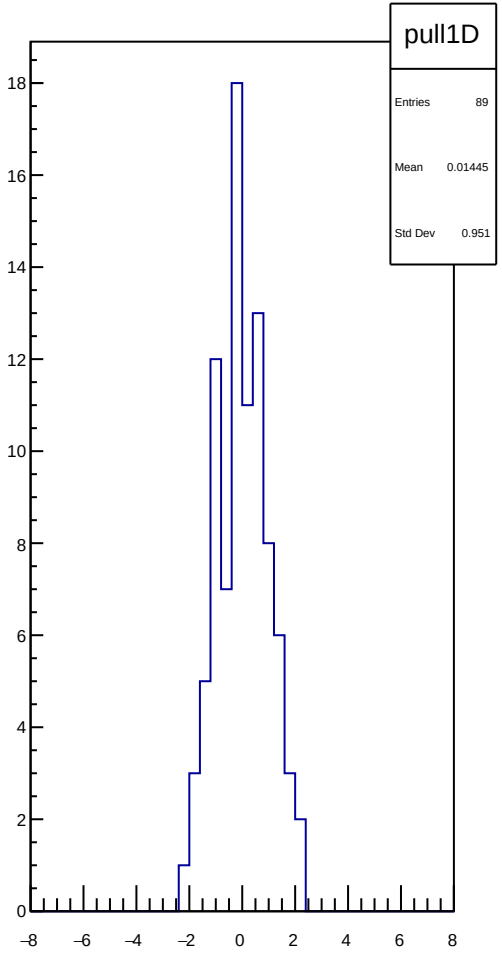

pull1D
Entries 89
Mean 0.01445
Std Dev 0.951

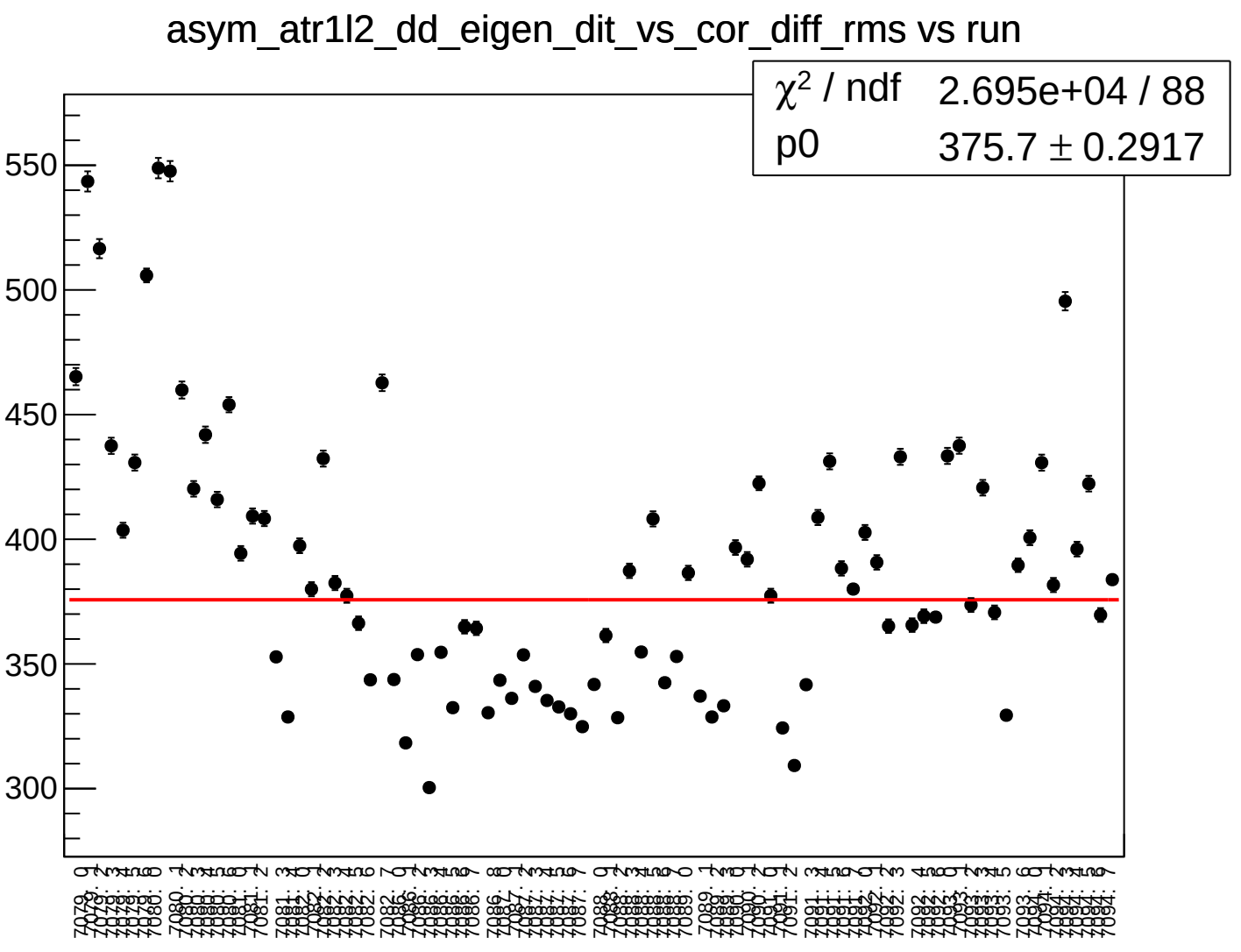

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.695e+04 / 88
p0 375.7 ± 0.2917
550
500
450
400
350
300

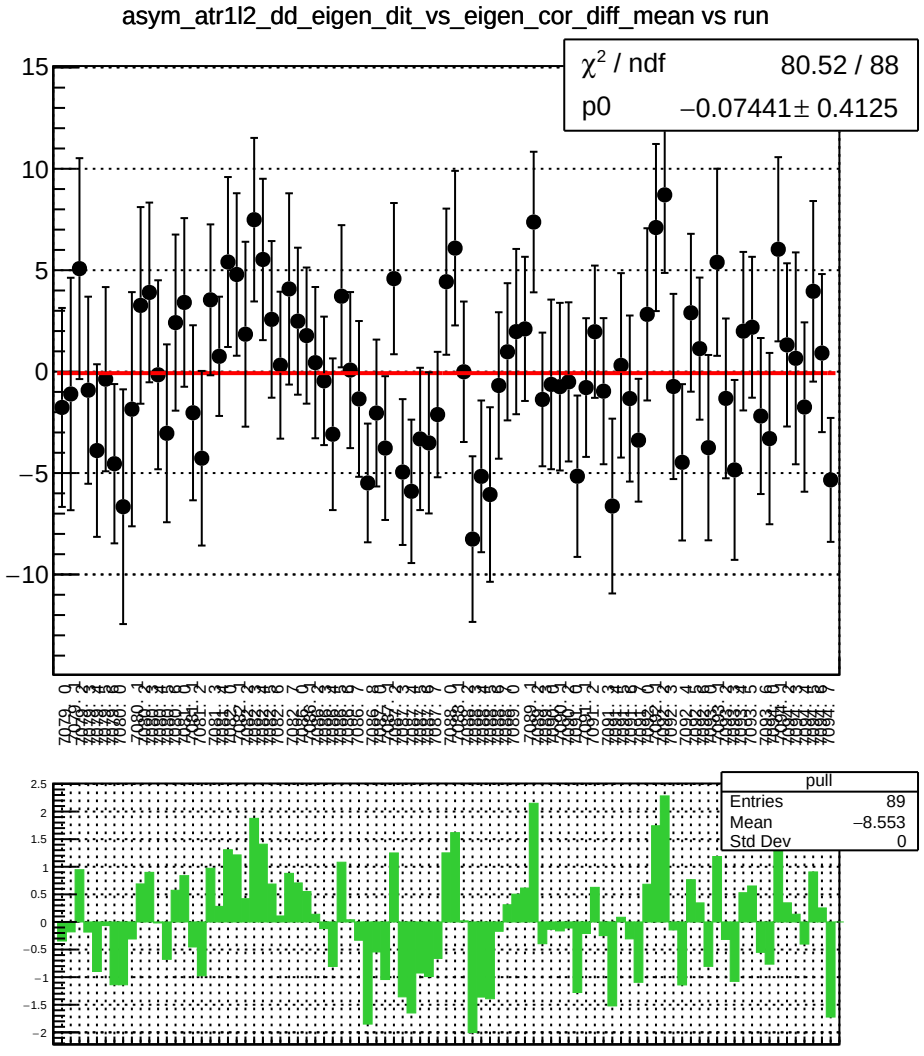

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.49 / 88
p0 1.323e−05 ± 1.212e−05
×10⁻³
pull
Entries 89
Mean 728.2
Std Dev 0
pull1D
Entries 89
Mean 0.003088
Std Dev 0.921

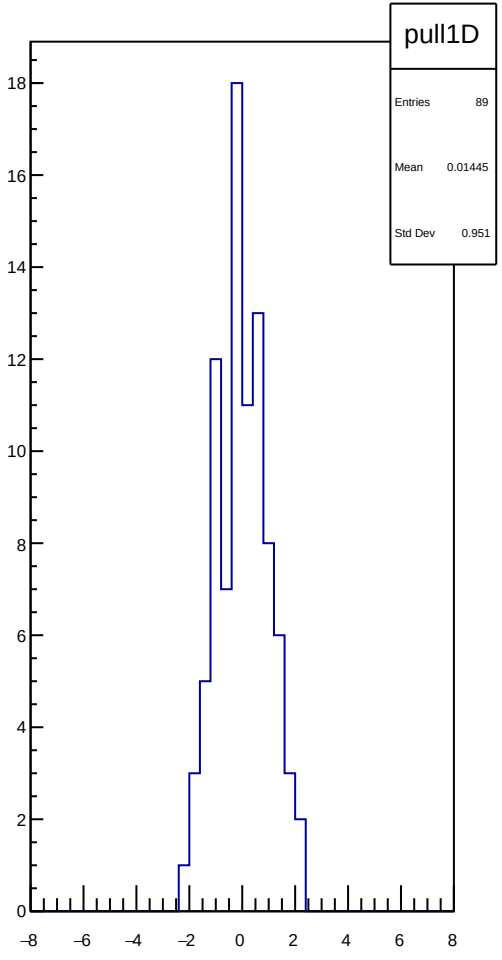

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.362e+05 / 88
p0 0.01032 ± 8.571e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

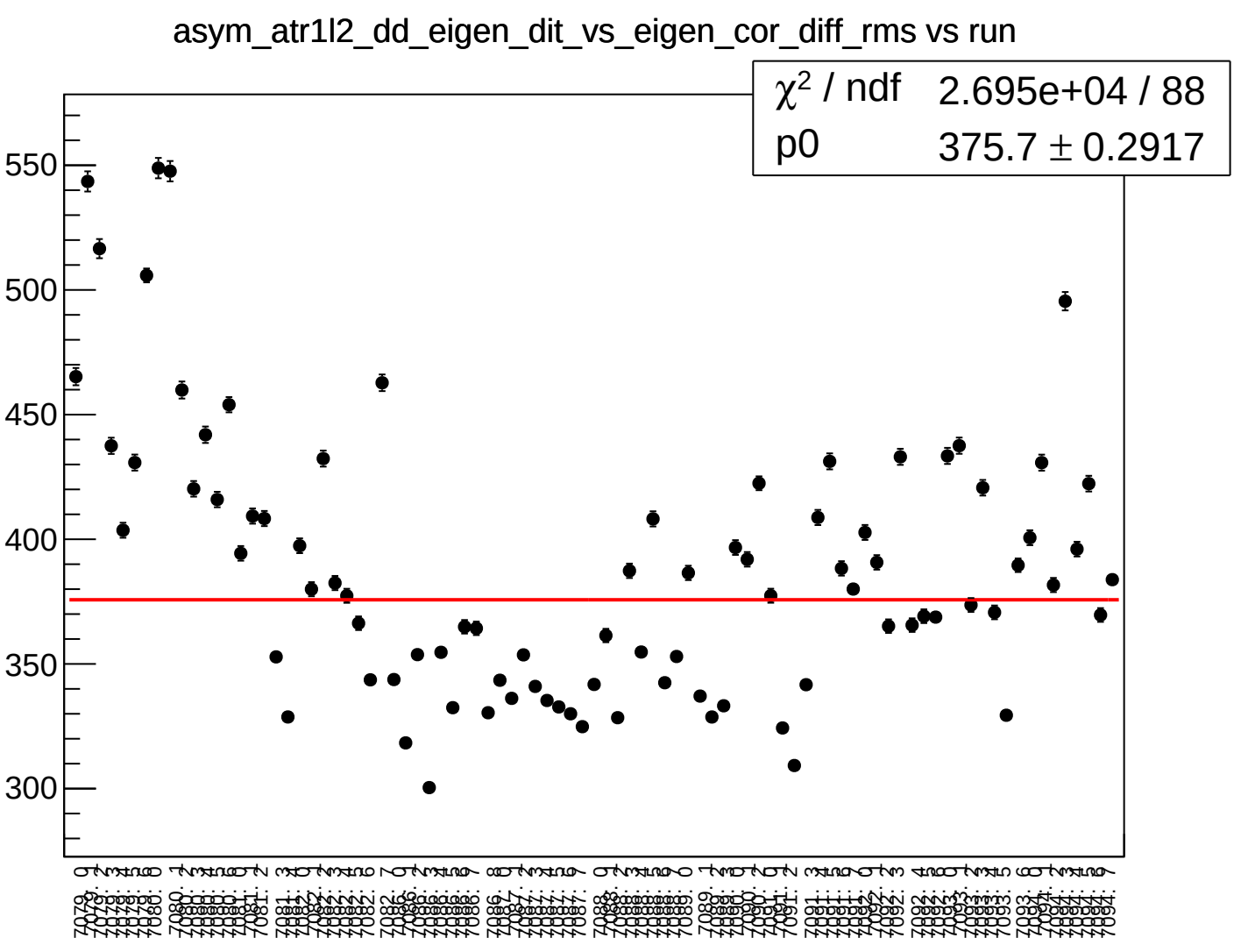

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.52 / 88
p0 −0.07441 ± 0.4125
pull
Entries 89
Mean −8.553
Std Dev 0

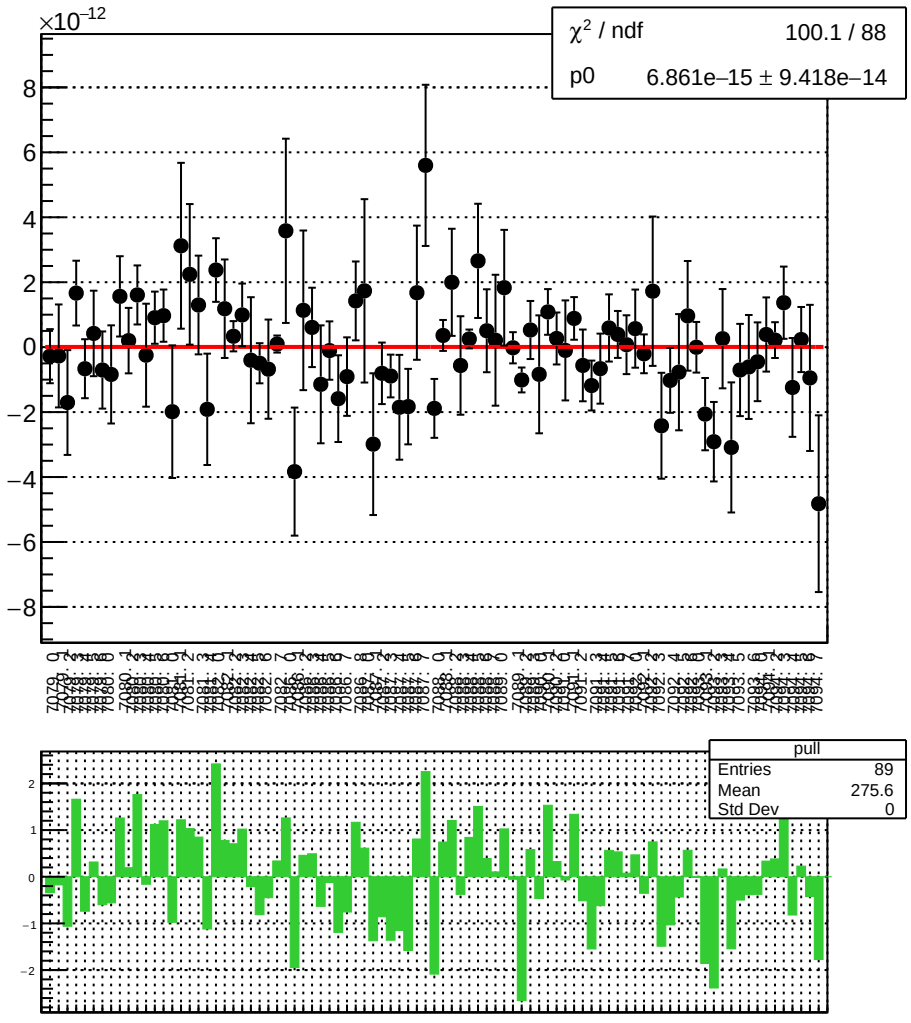

pull1D
Entries 89
Mean 0.01445
Std Dev 0.951

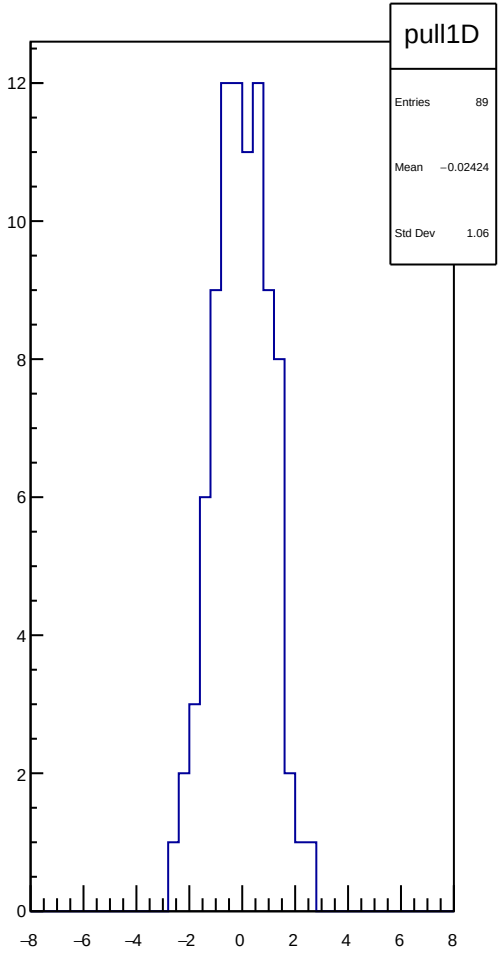

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.695e+04 / 88
p0 375.7 ± 0.2917
550
500
450
400
350
300

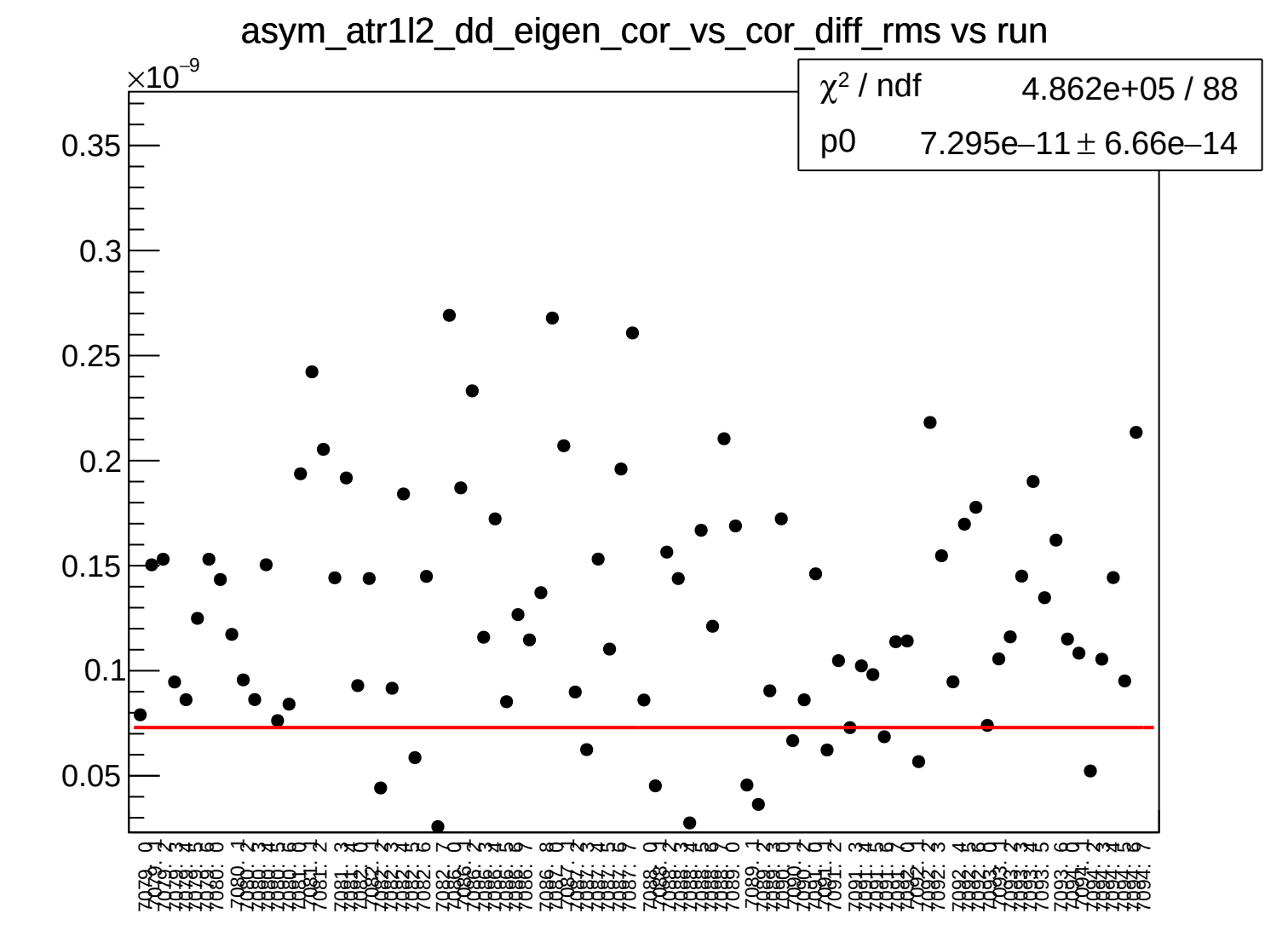

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.52 / 88
p0 −0.07441± 0.4125
pull
Entries 89
Mean −8.553
Std Dev 0

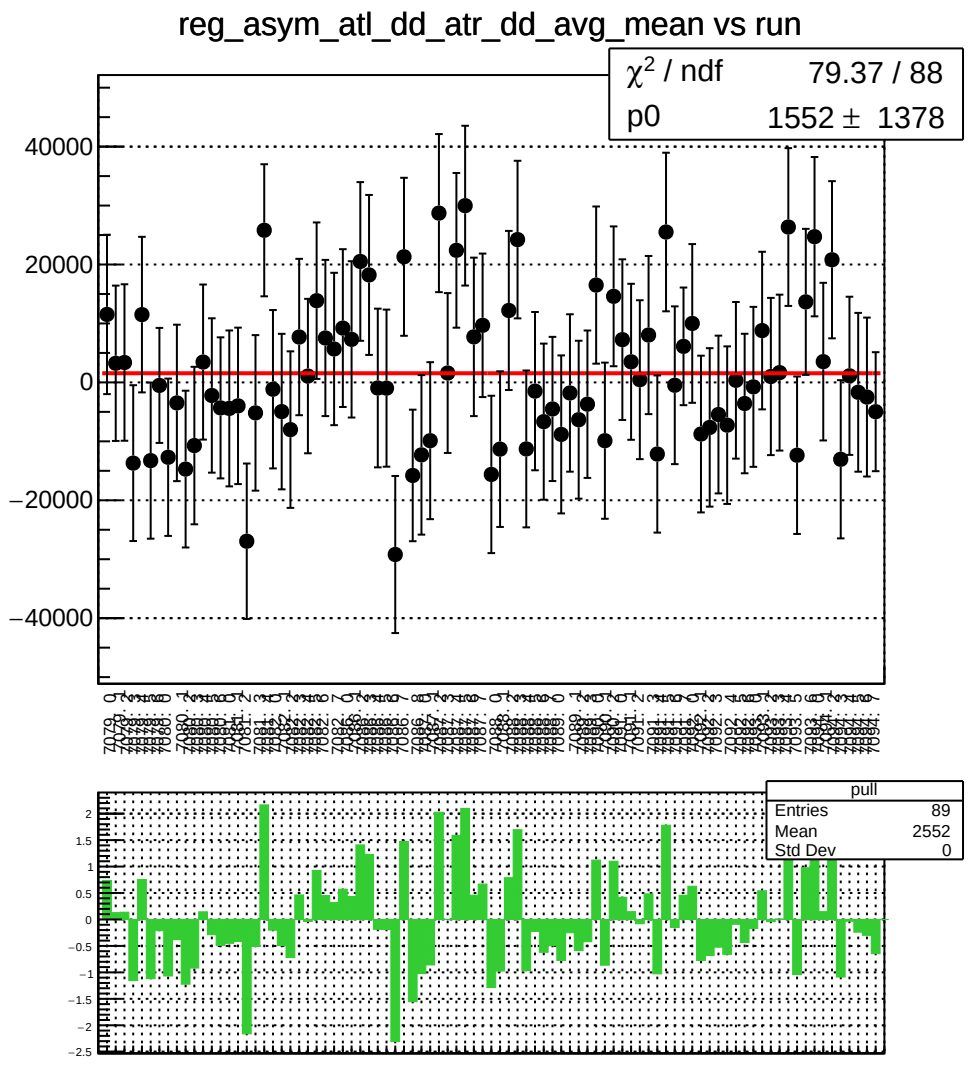

pull1D
Entries 89
Mean 0.01445
Std Dev 0.951

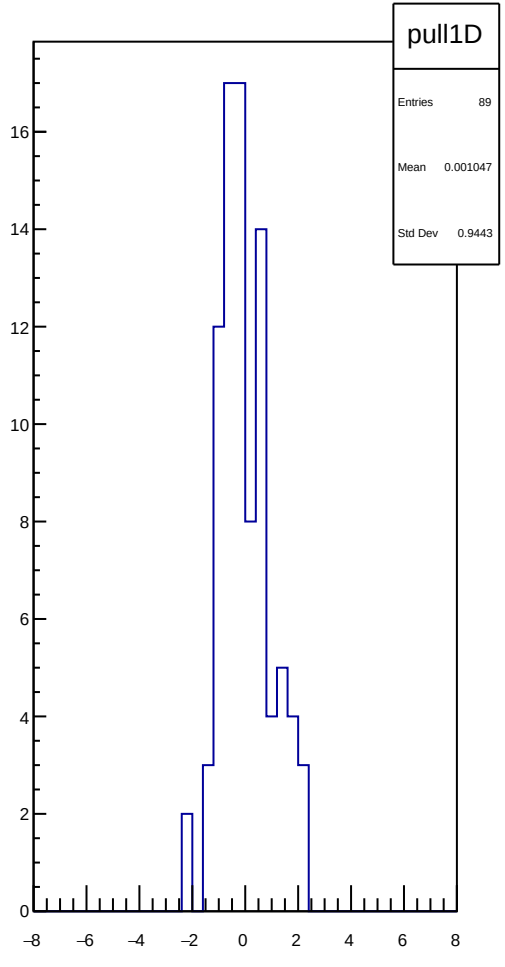

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.695e+04 / 88
p0 375.7 ± 0.2917
550
500
450
400
350
300

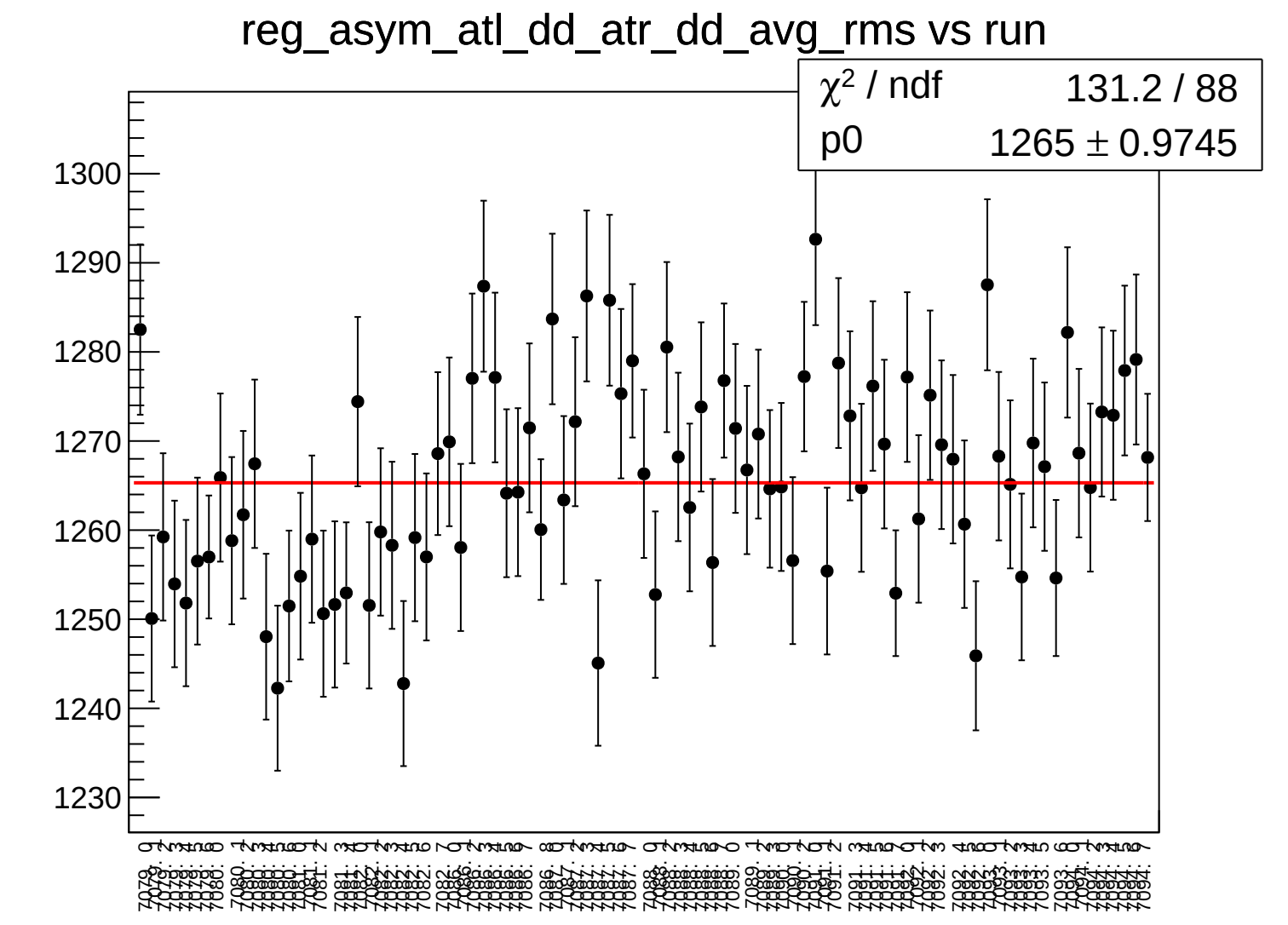

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.1 / 88
p0 6.861e−15 ± 9.418e−14
pull
Entries 89
Mean 275.6
Std Dev 0

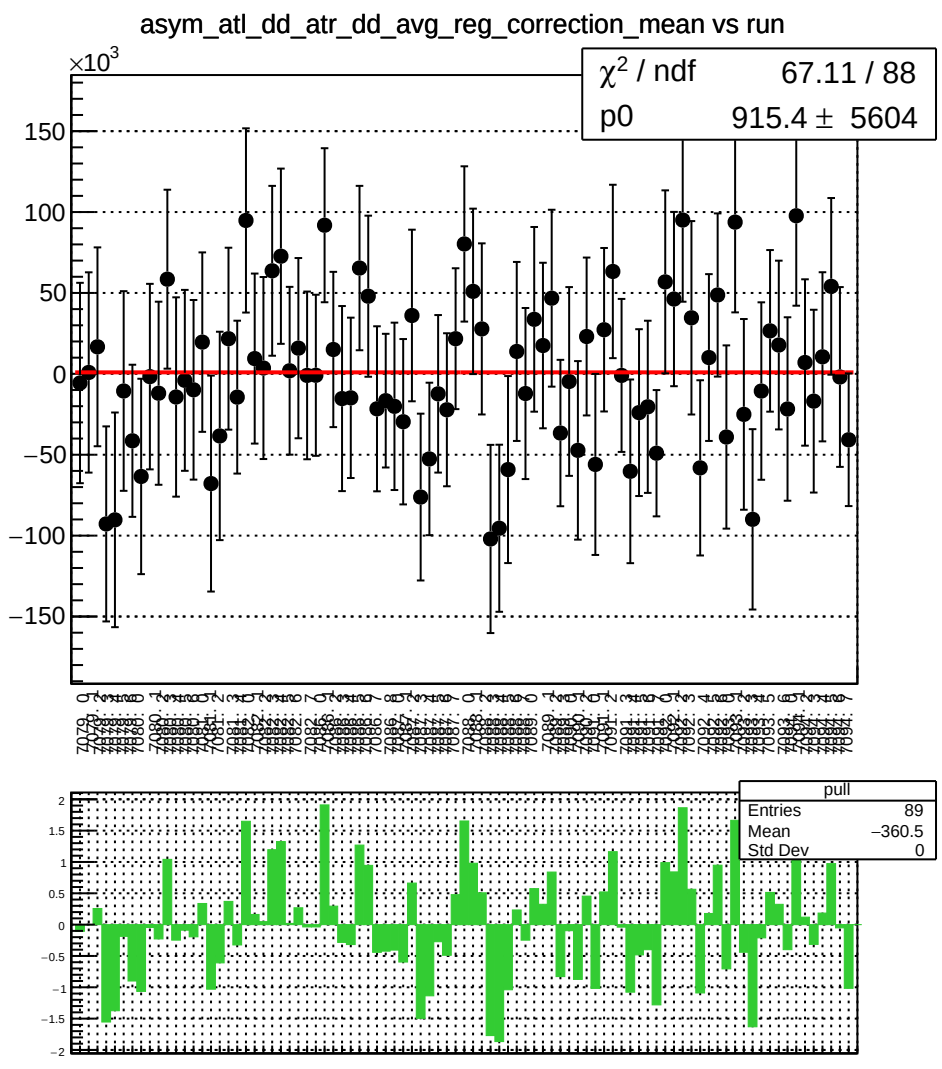

pull1D
Entries 89
Mean −0.02424
Std Dev 1.06

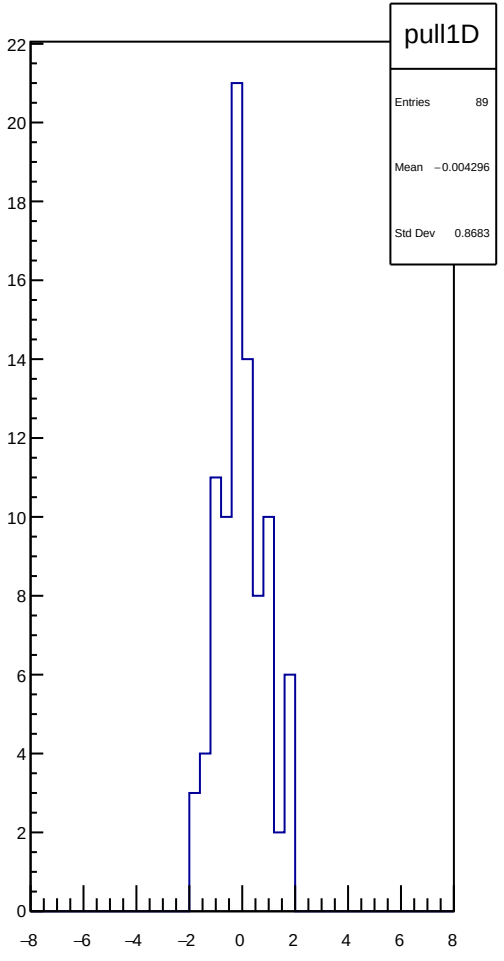

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.862e+05 / 88
p0 7.295e−11 ± 6.66e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

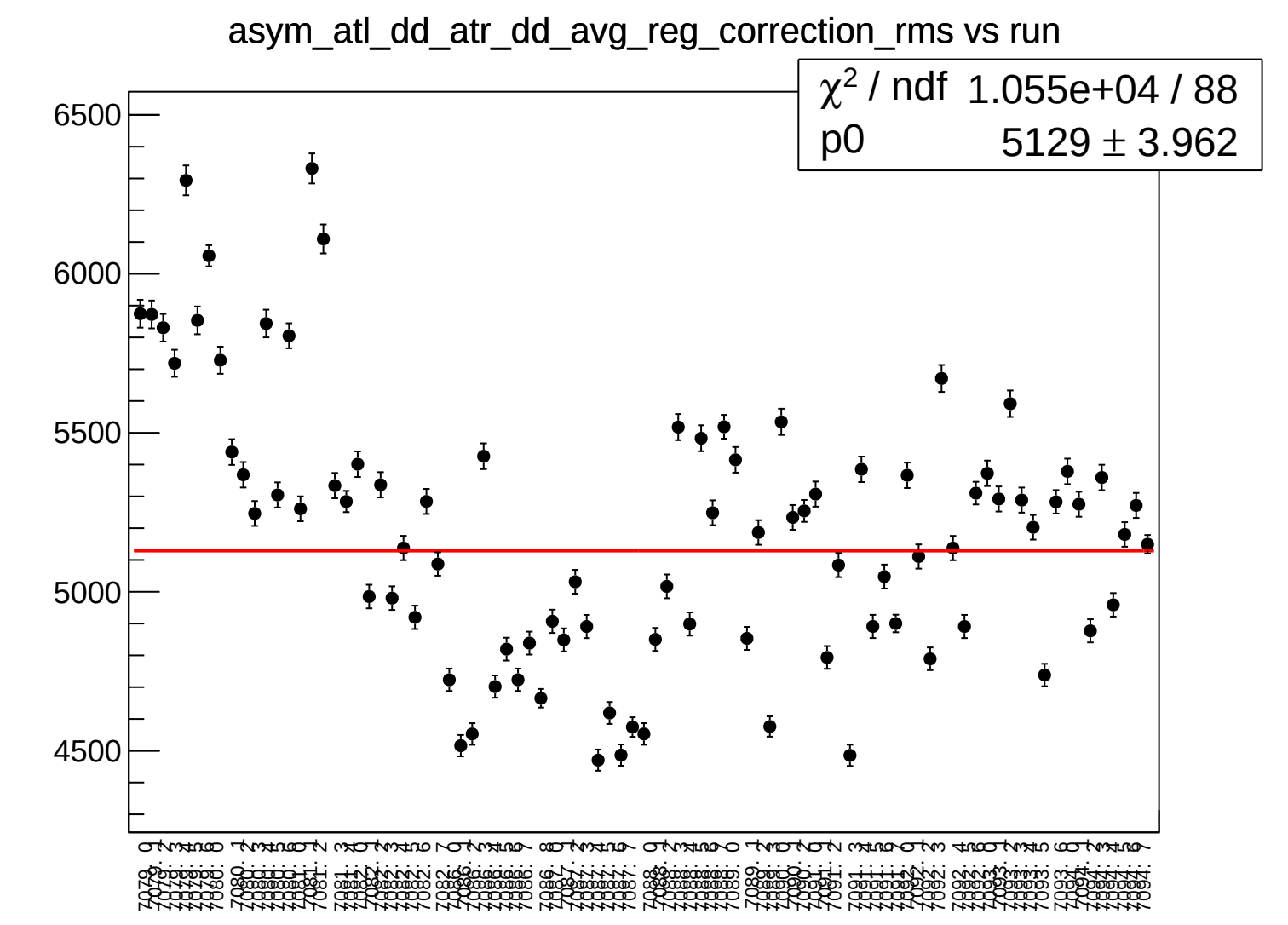

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 79.37 / 88
p0 1552 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2552
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

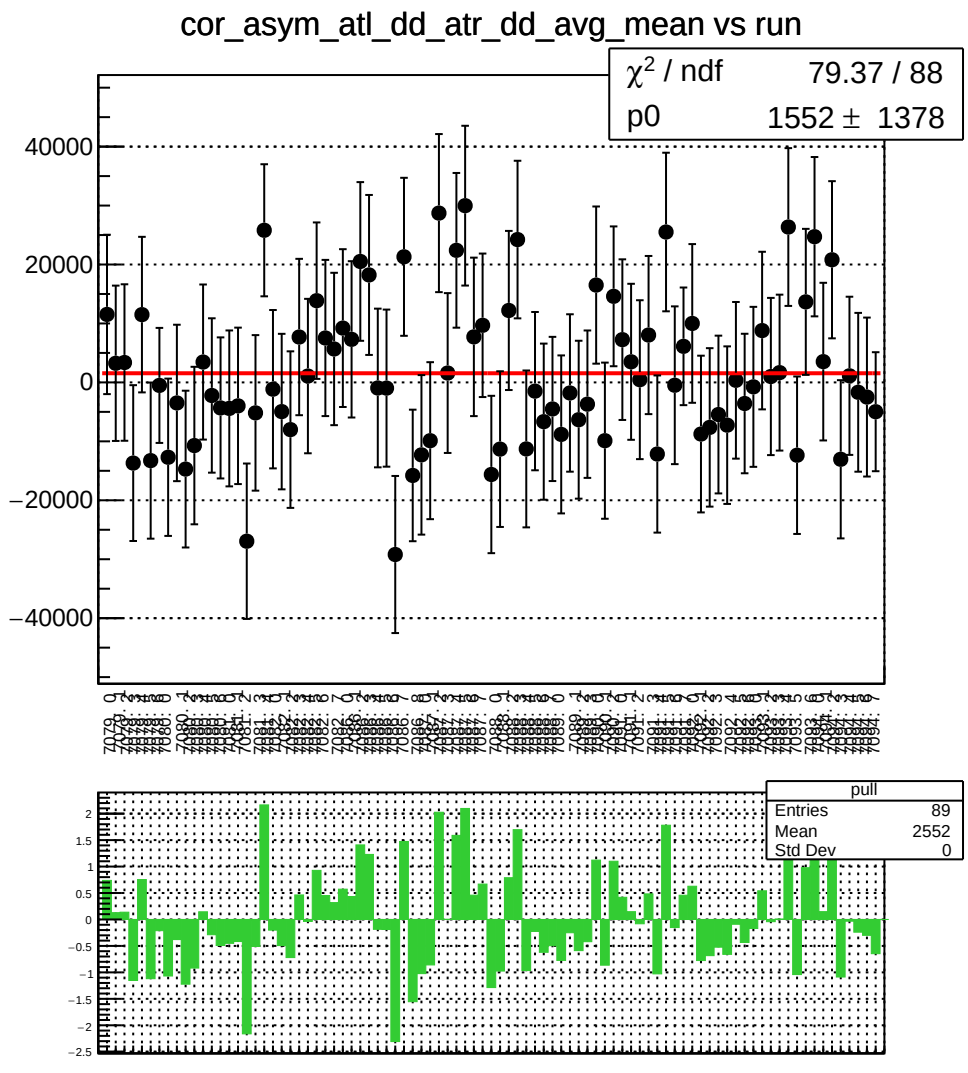

pull1D
Entries 89
Mean 0.001047
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

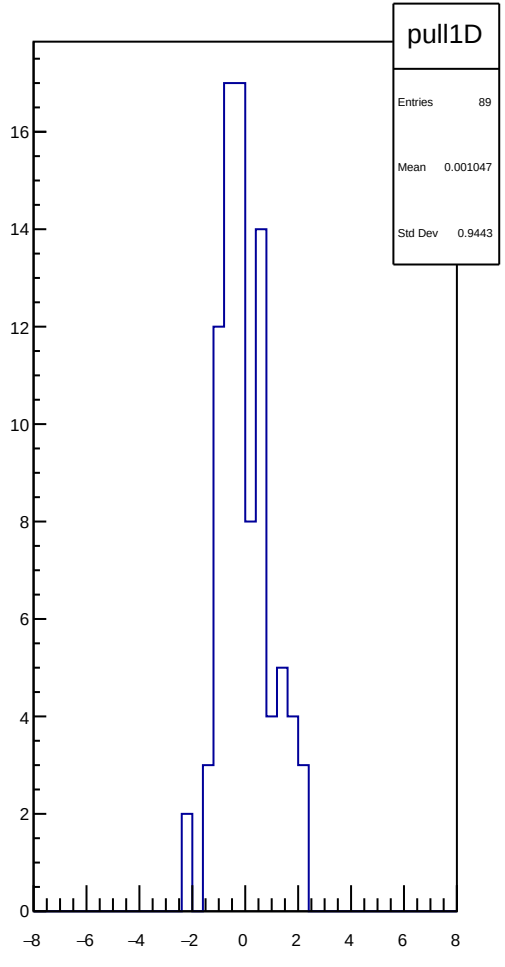

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 131.2 / 88
p0 1265 ± 0.9745
1300
1290
1280
1270
1260
1250
1240
1230

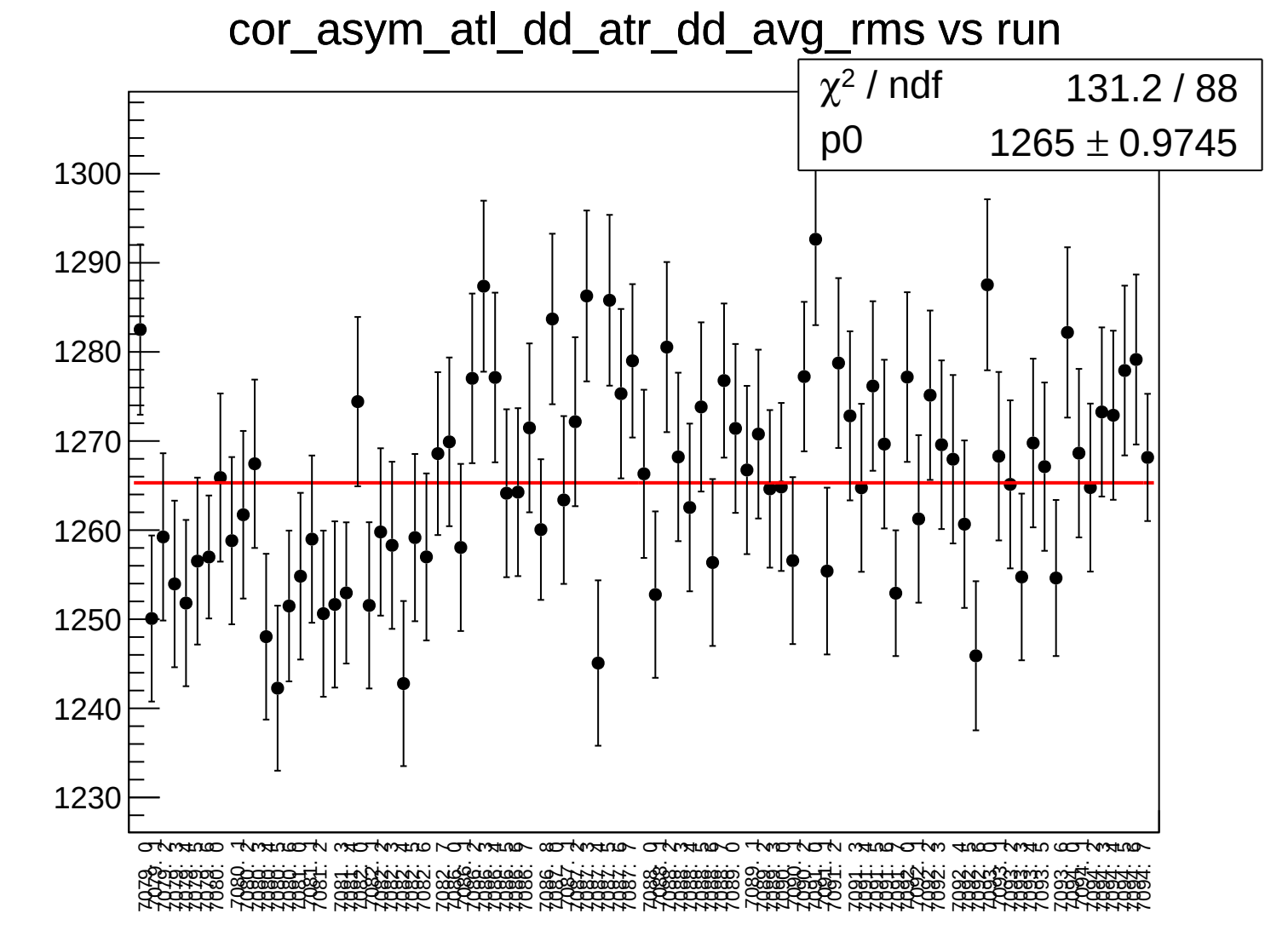

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 67.11 / 88
p0 915.4 ± 5604
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −360.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

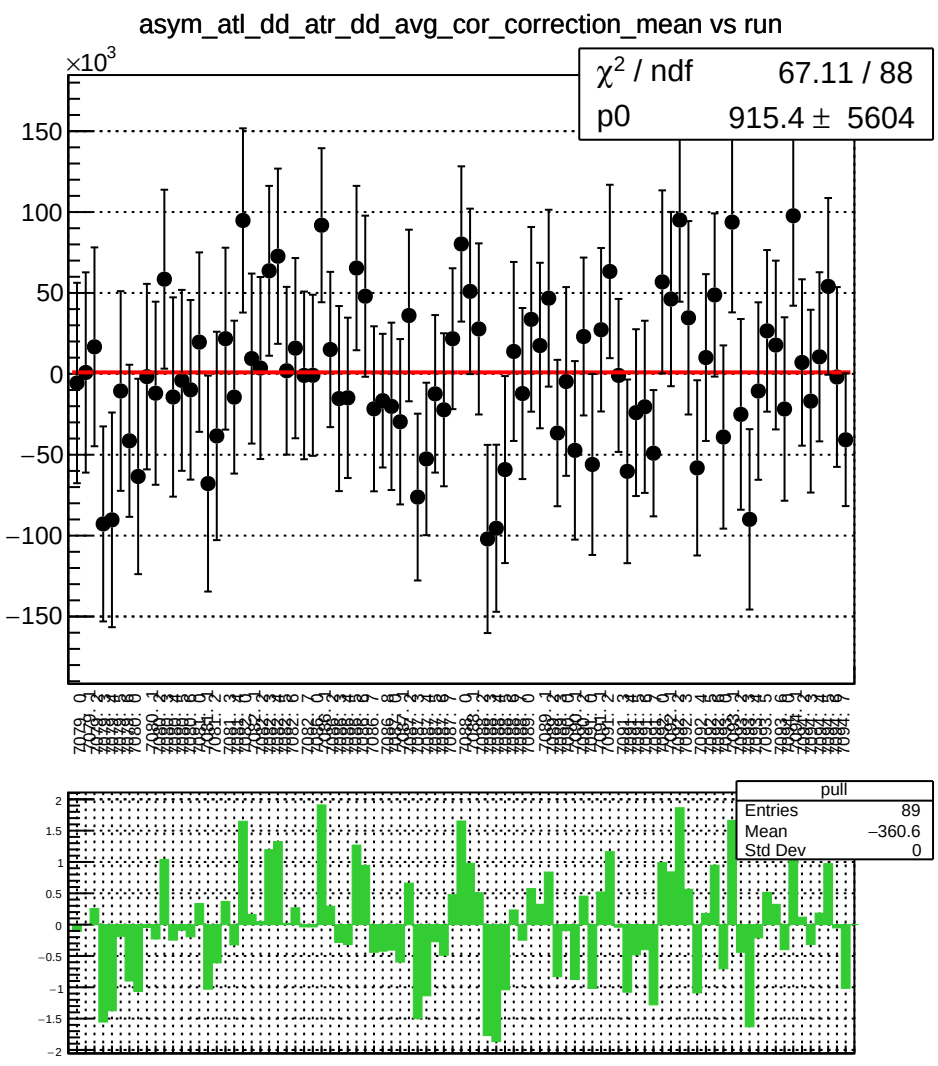

pull1D
Entries 89
Mean −0.004296
Std Dev 0.8683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

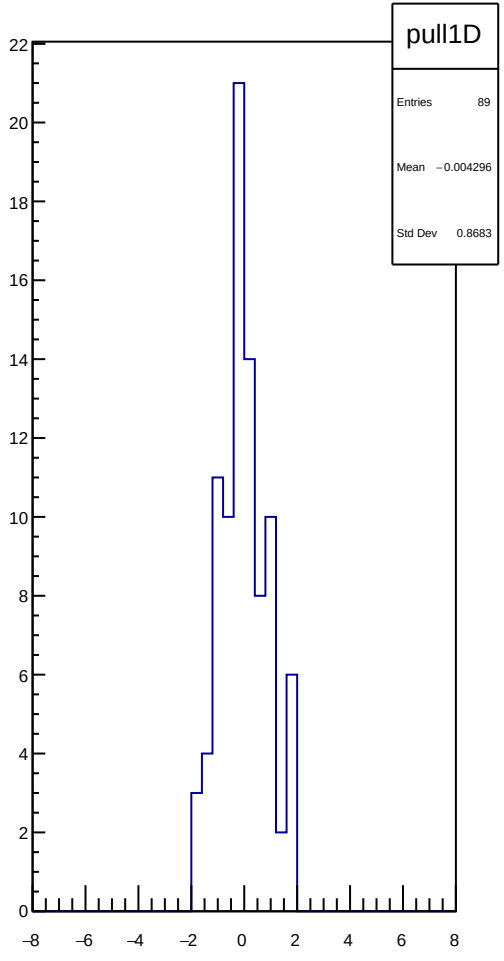

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.055e+04 / 88
p0 5129 ± 3.962
6500
6000
5500
5000
4500

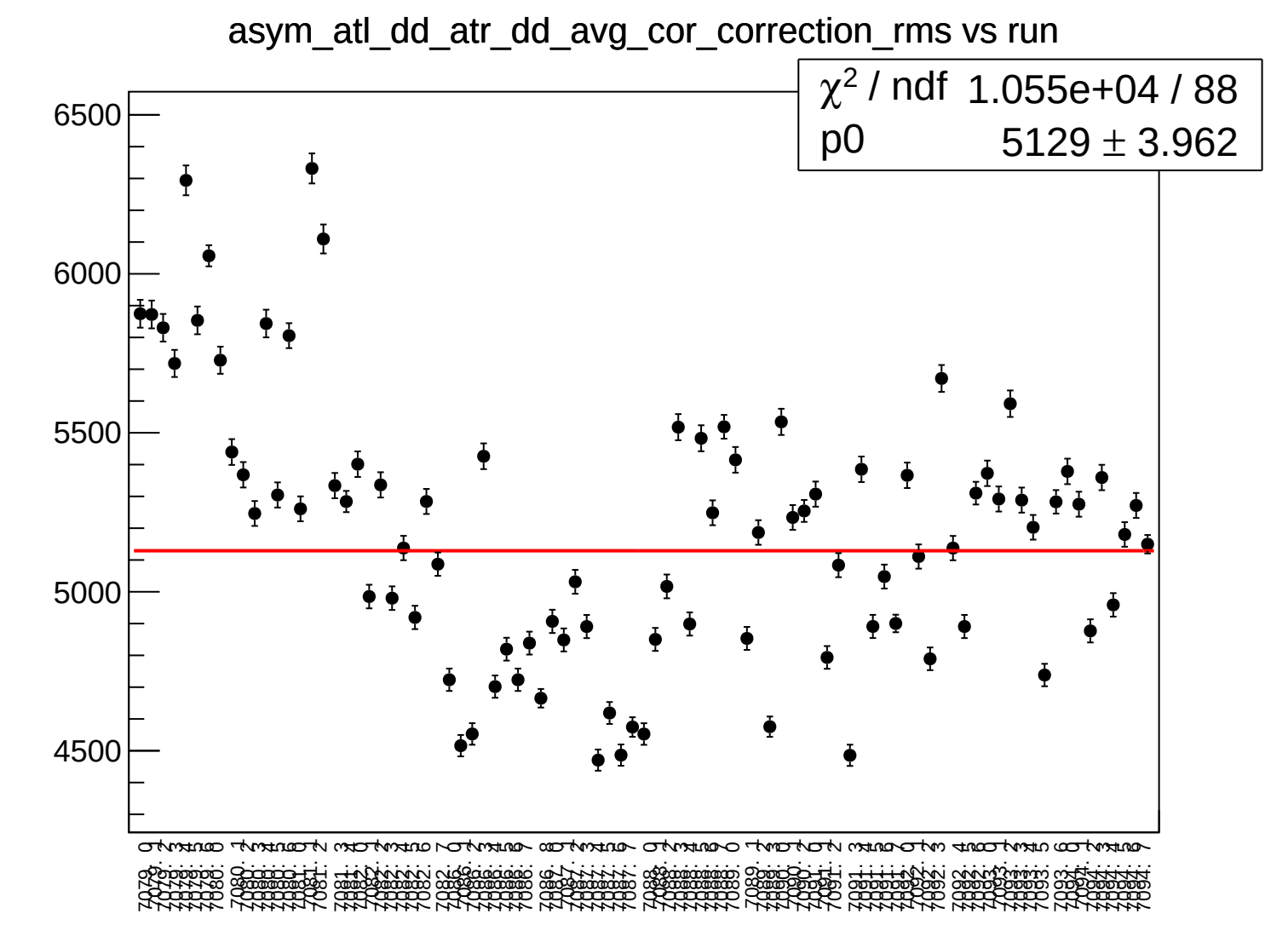

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 79.37 / 88
p0 1552 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2552
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

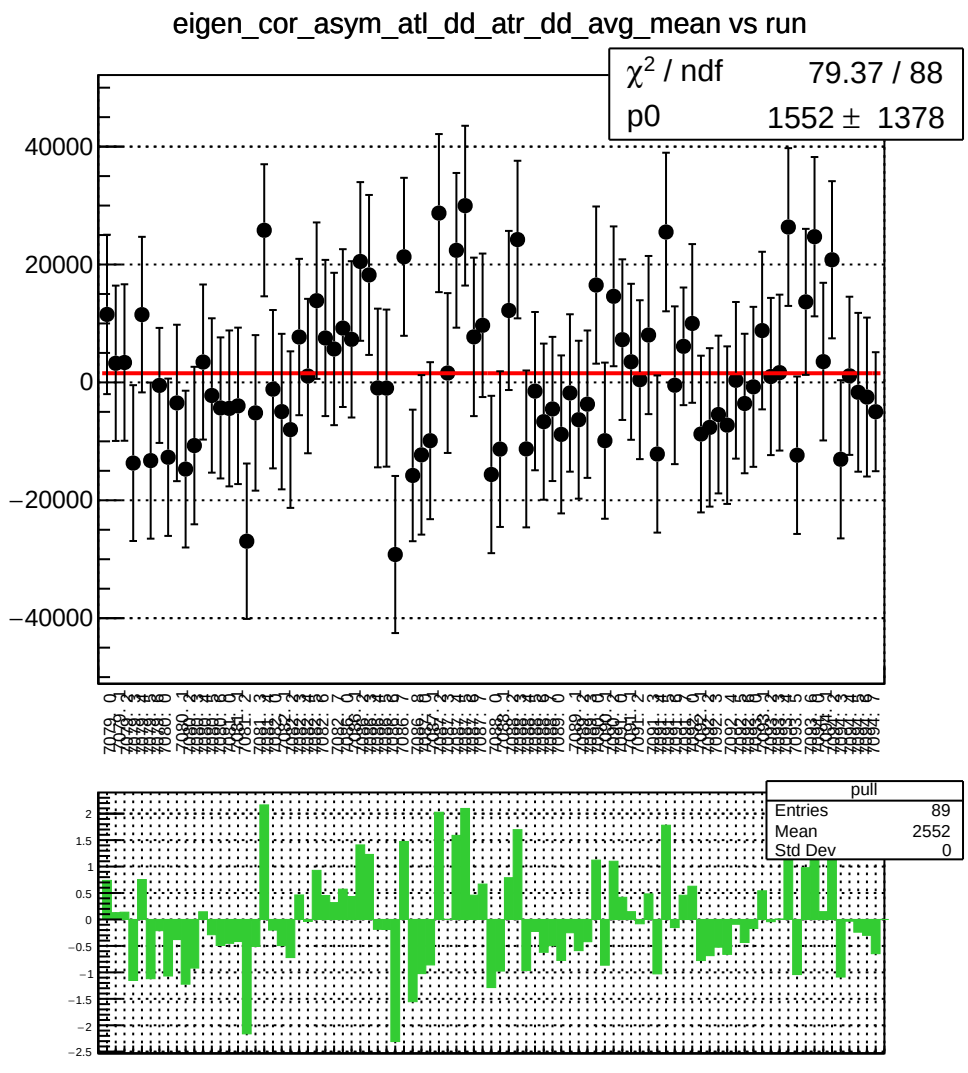

pull1D
Entries 89
Mean 0.001047
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

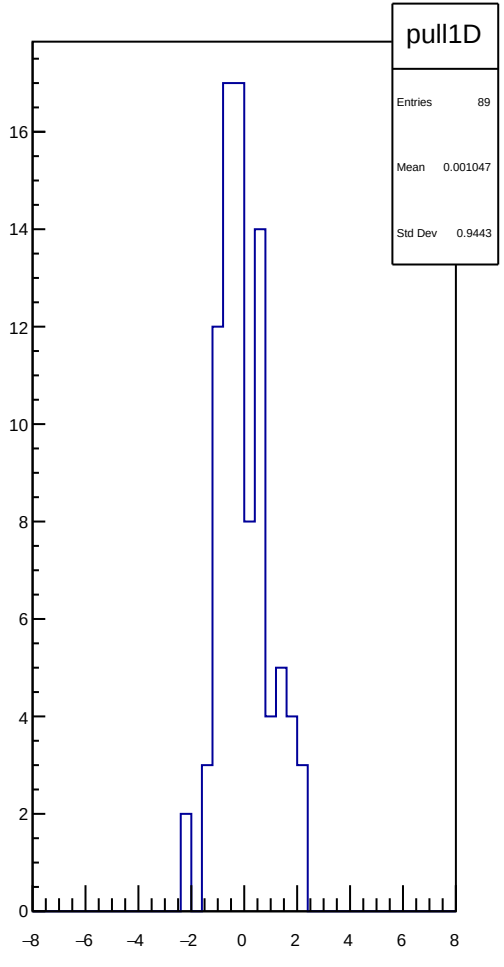

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 131.2 / 88
p0 1265 ± 0.9745
1300
1290
1280
1270
1260
1250
1240
1230

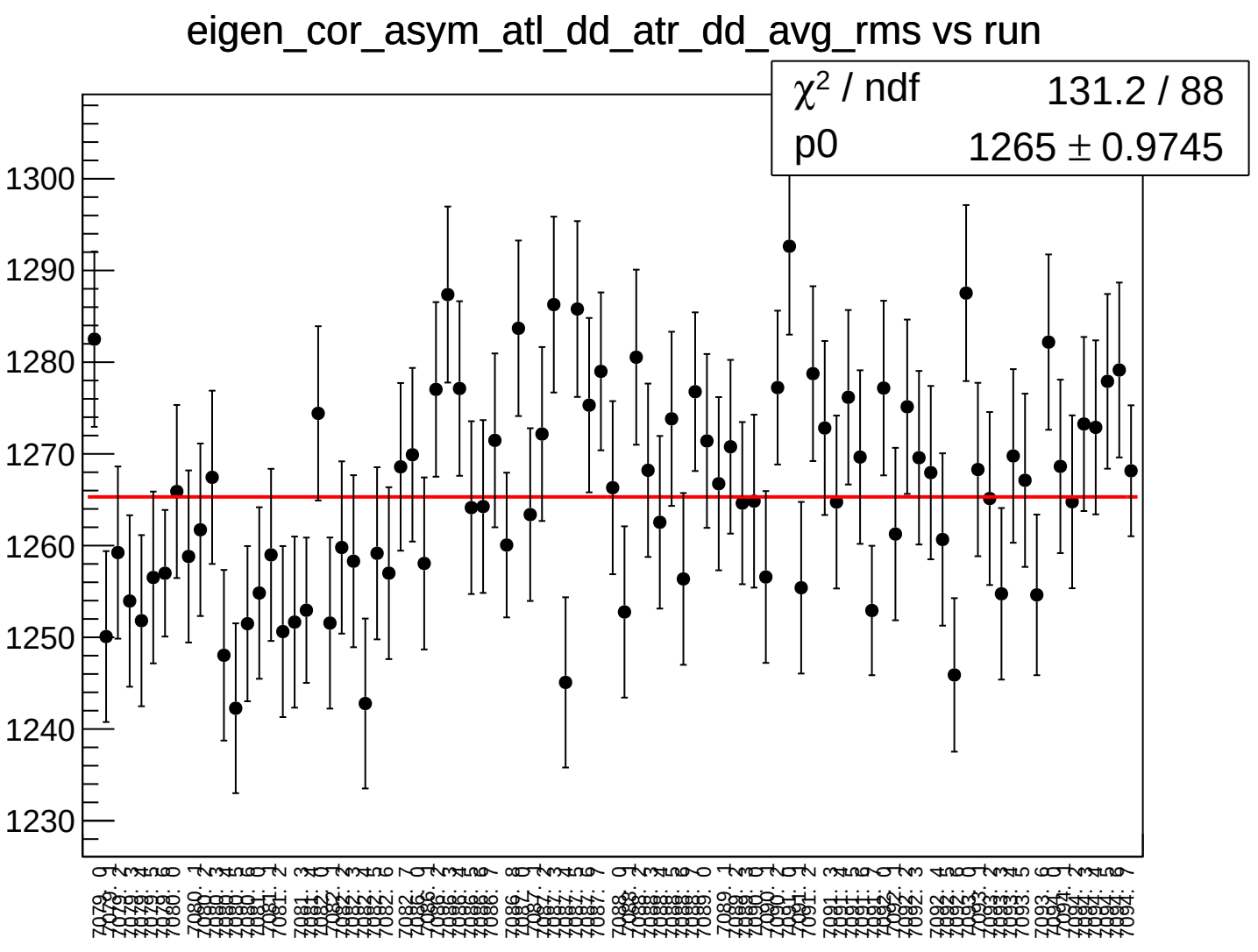

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 67.11 / 88
p0 915.4 ± 5604
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −360.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

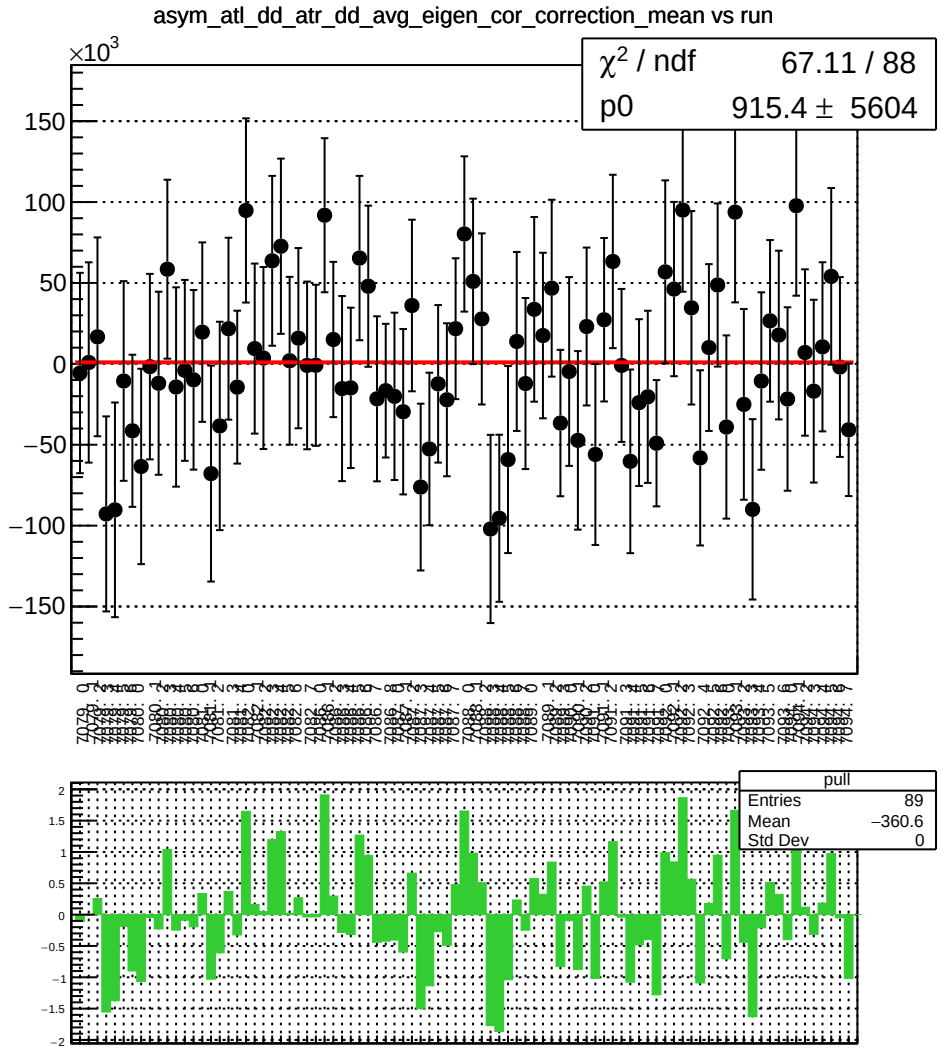

pull1D
Entries 89
Mean −0.004296
Std Dev 0.8683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

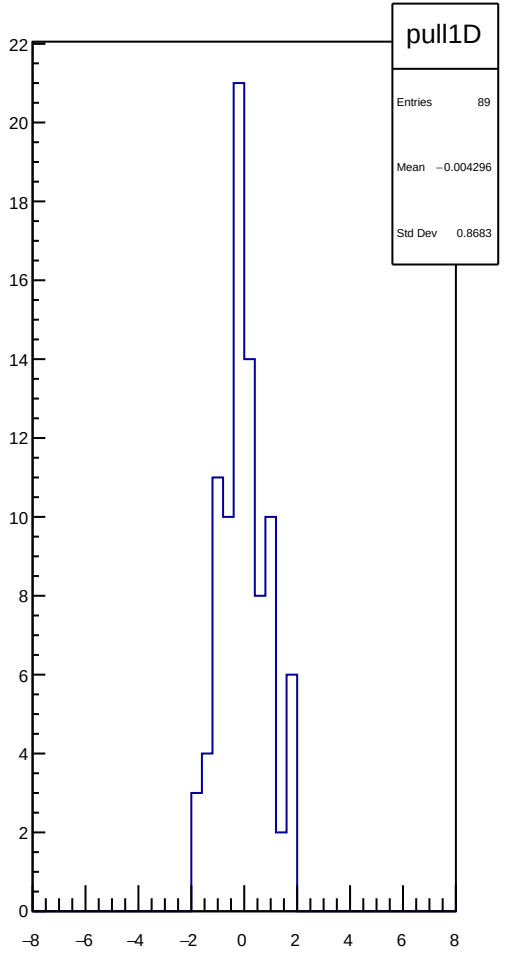

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.055e+04 / 88
p0 5129 ± 3.962
6500
6000
5500
5000
4500

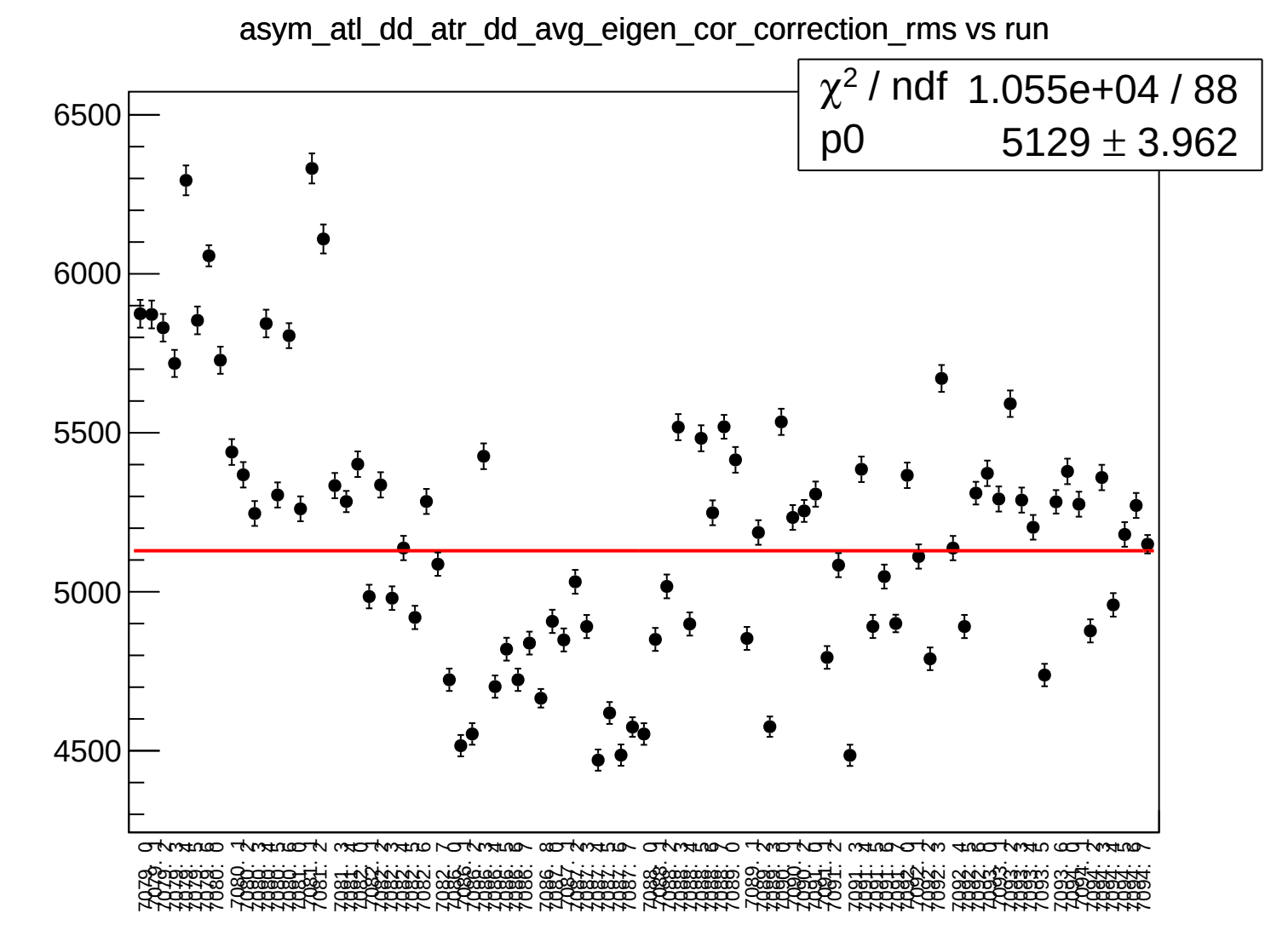

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 79.37 / 88
p0 1552 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2552
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

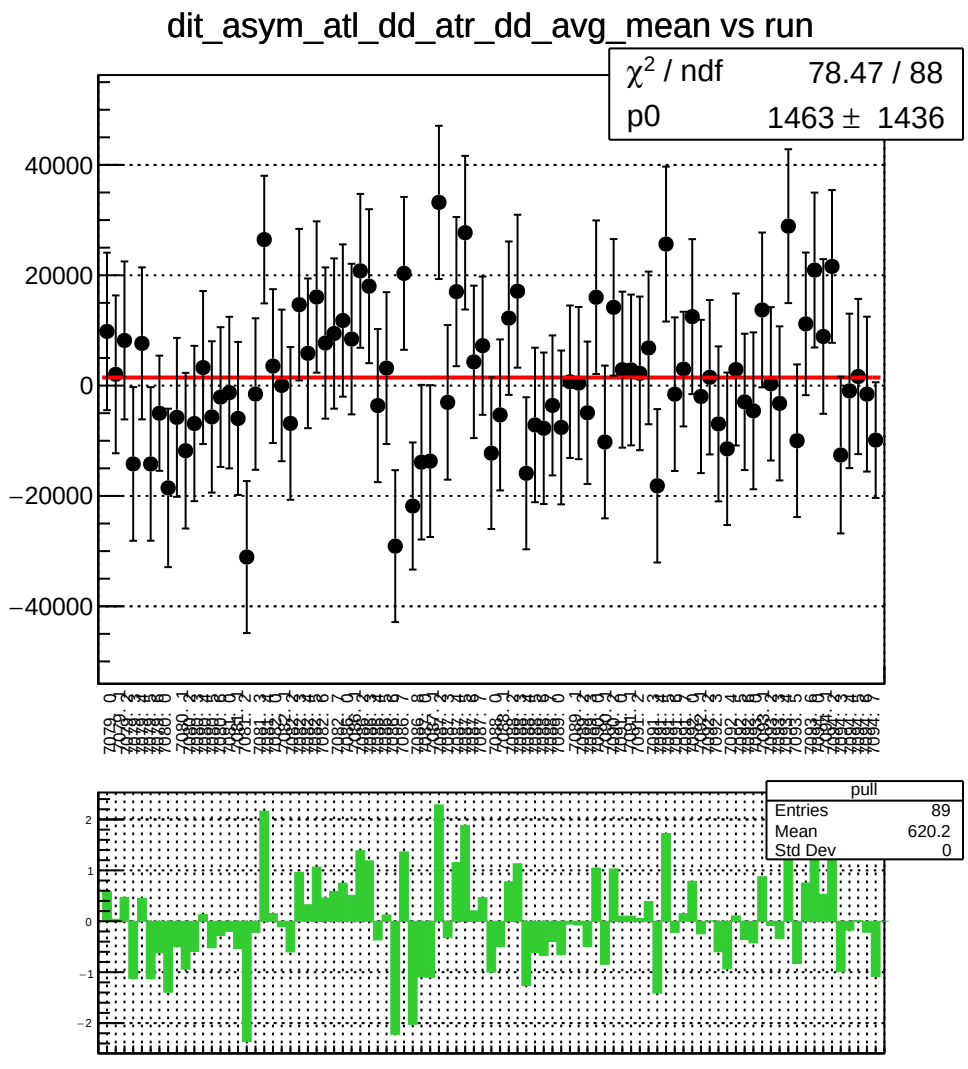

pull1D
Entries 89
Mean 0.001047
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

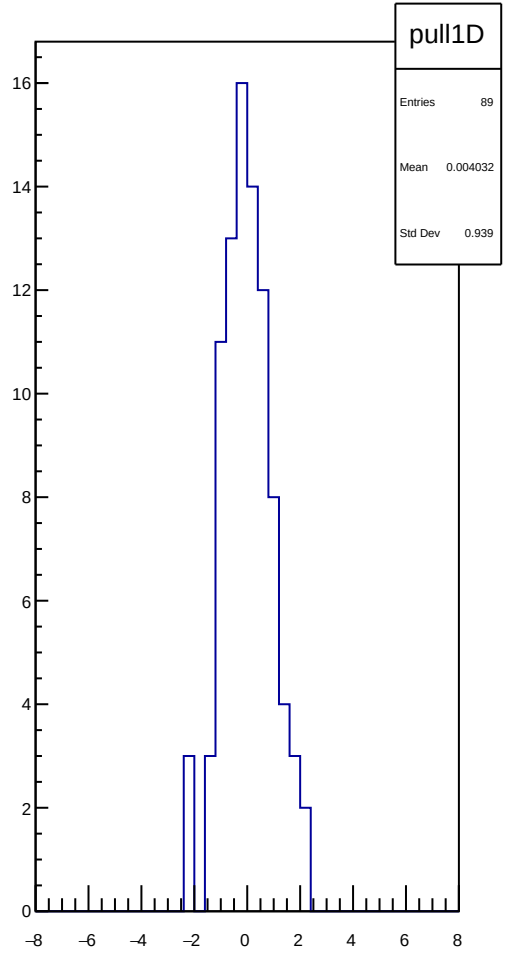

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 131.2 / 88
p0 1265 ± 0.9745
1300
1290
1280
1270
1260
1250
1240
1230

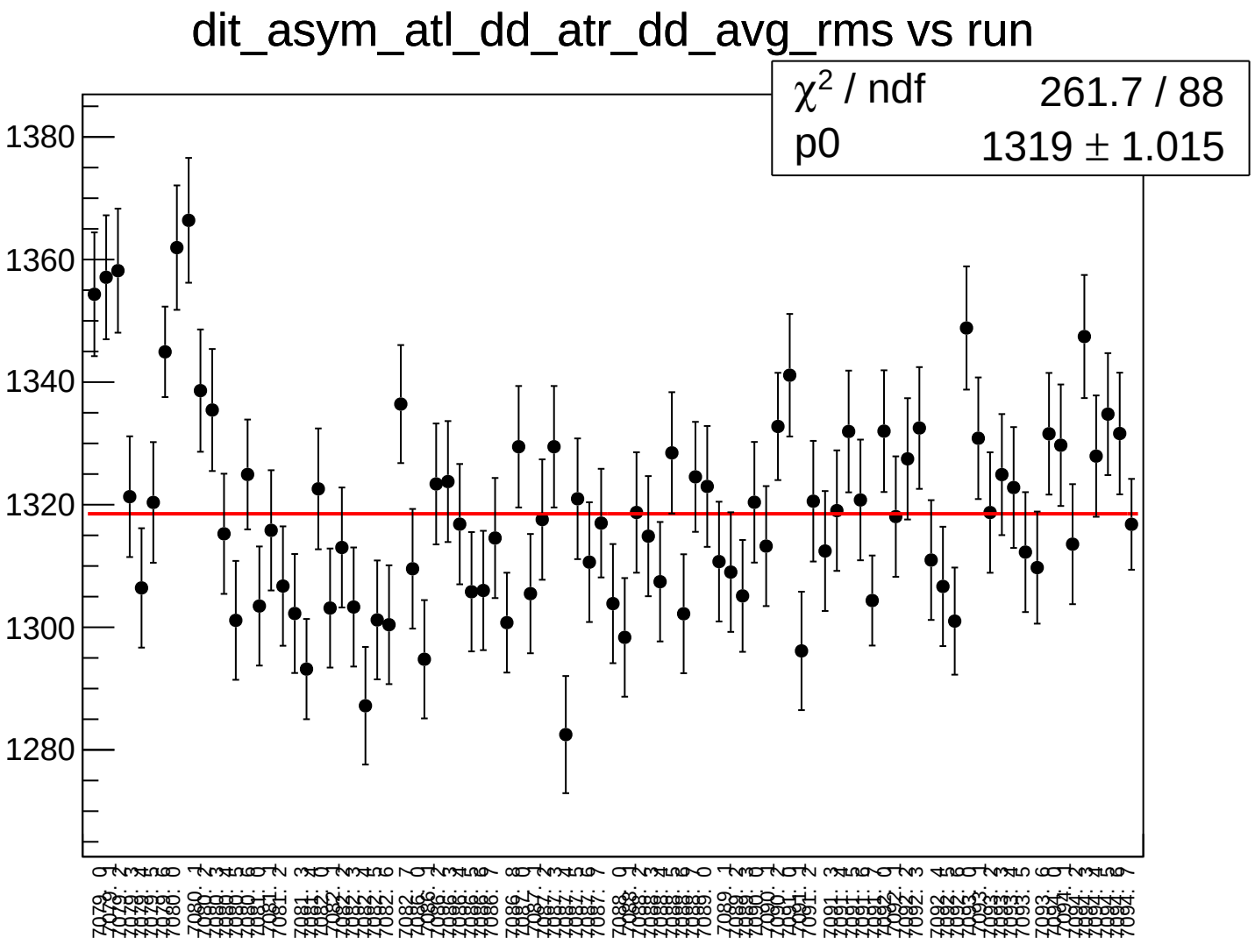

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 67.11 / 88
p0 915.4 ± 5604
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −360.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

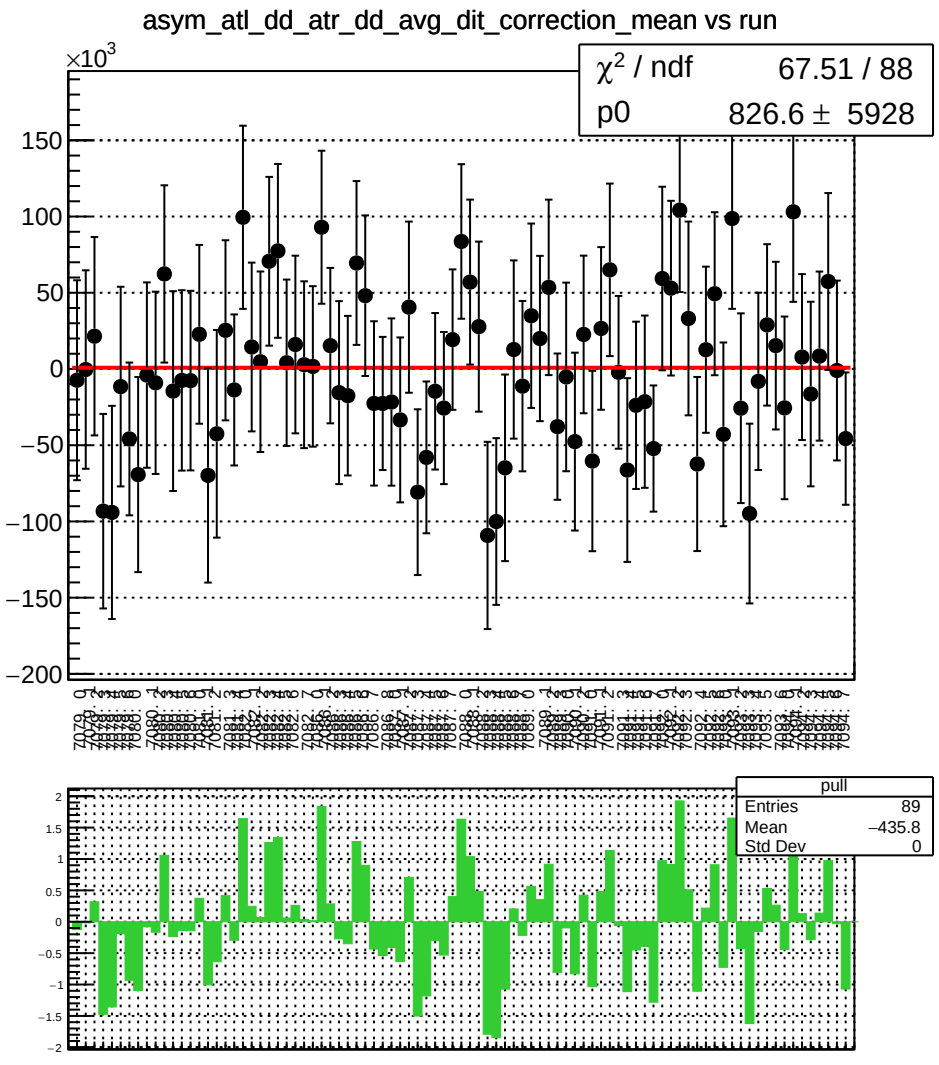

pull1D
Entries 89
Mean −0.004296
Std Dev 0.8683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

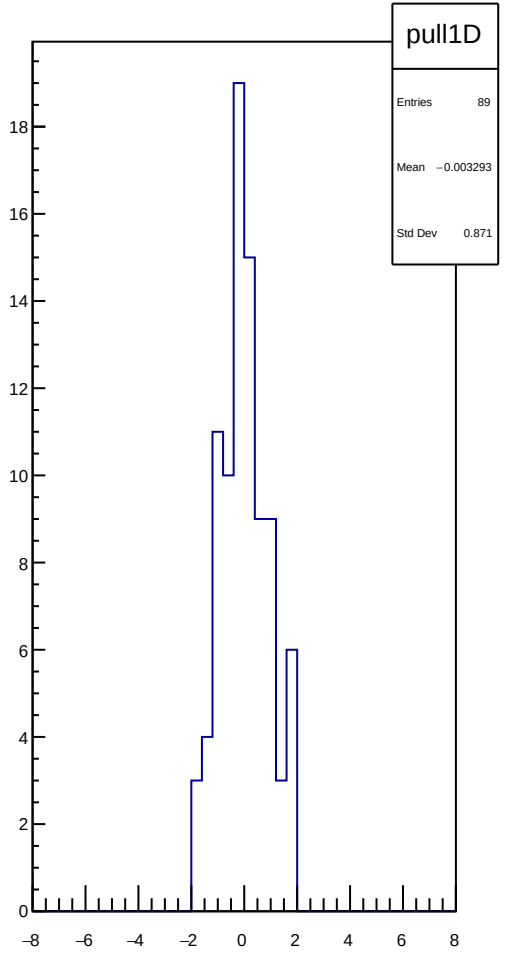

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.055e+04 / 88
p0 5129 ± 3.962
6500
6000
5500
5000
4500

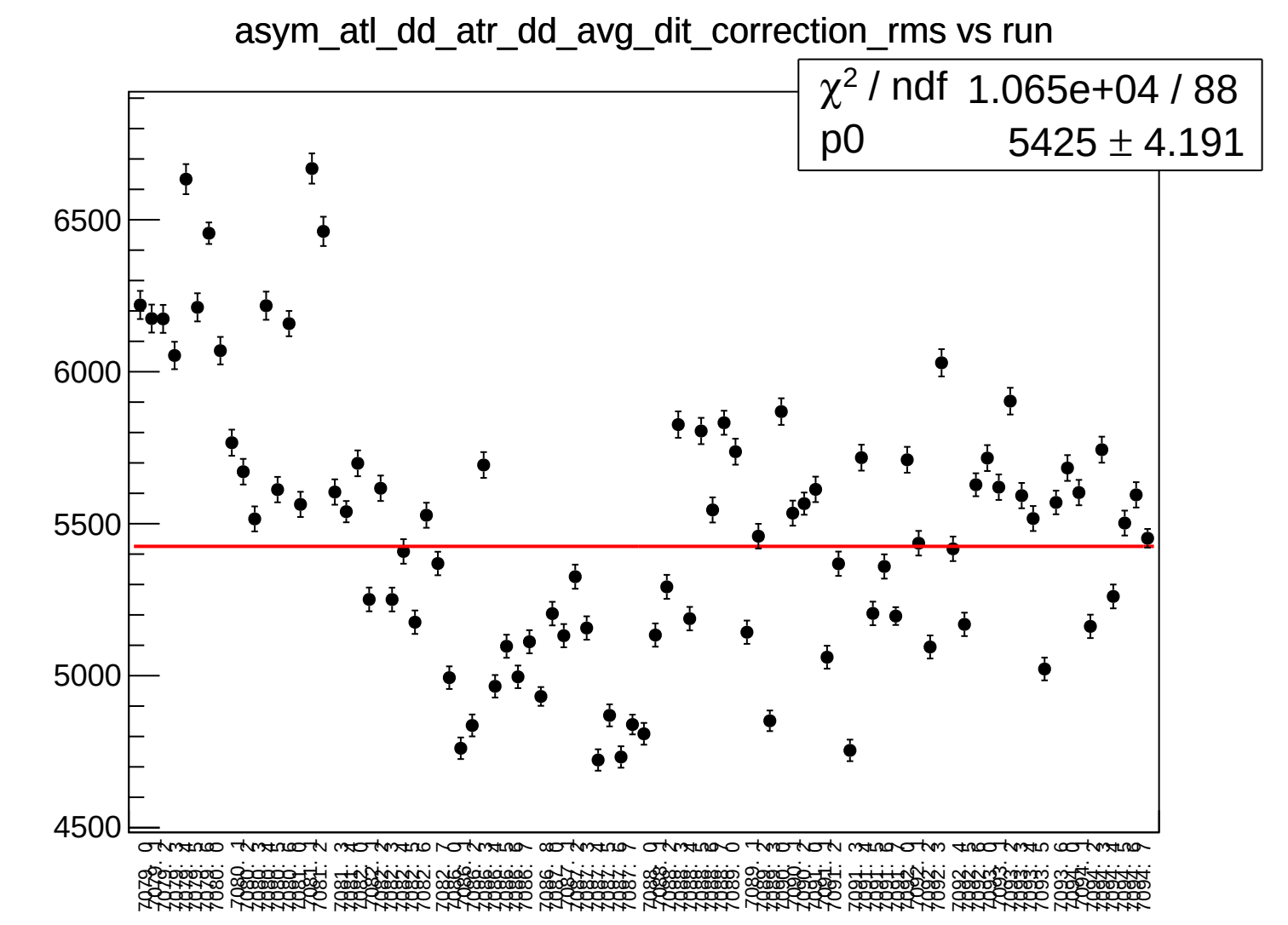

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.47 / 88
p0 1463 ± 1436
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 620.2
Std Dev 0
2
1
0
−1
−2

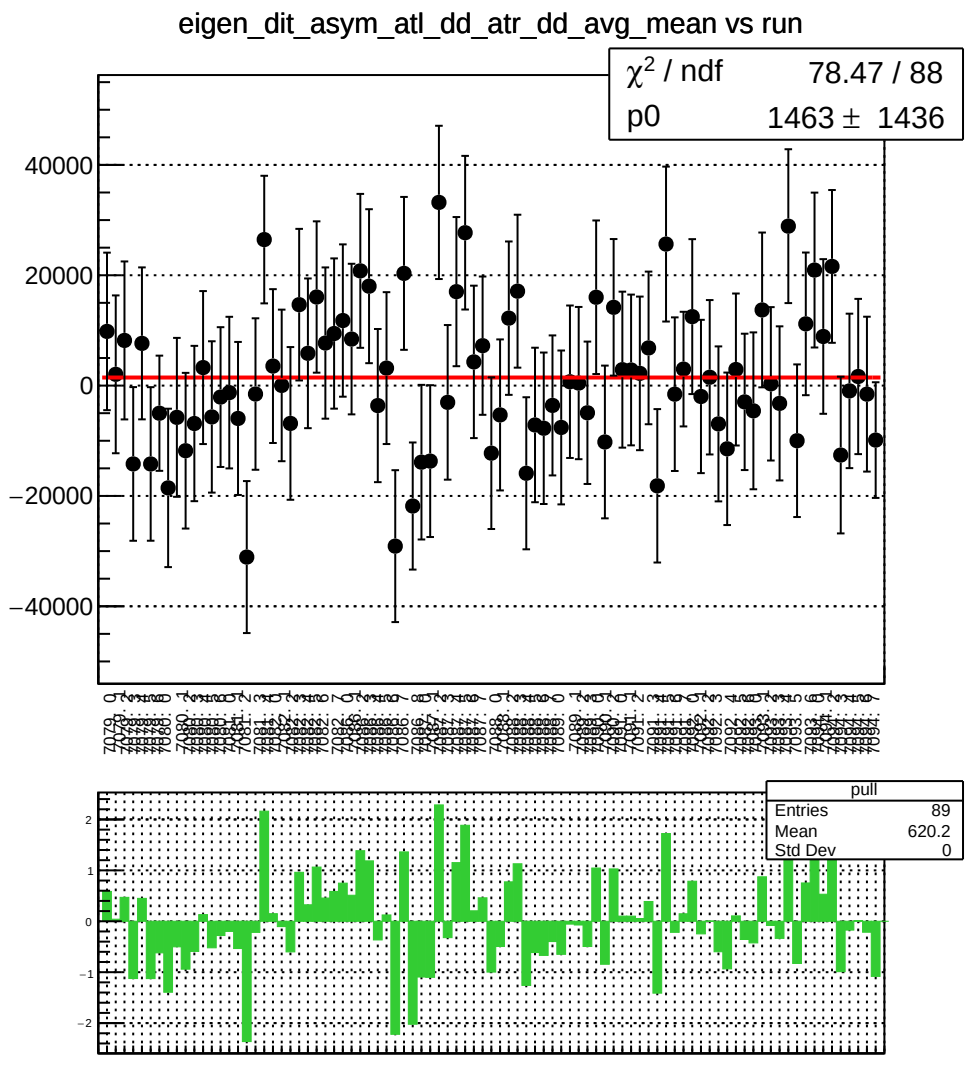

pull1D
Entries 89
Mean 0.004032
Std Dev 0.939
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

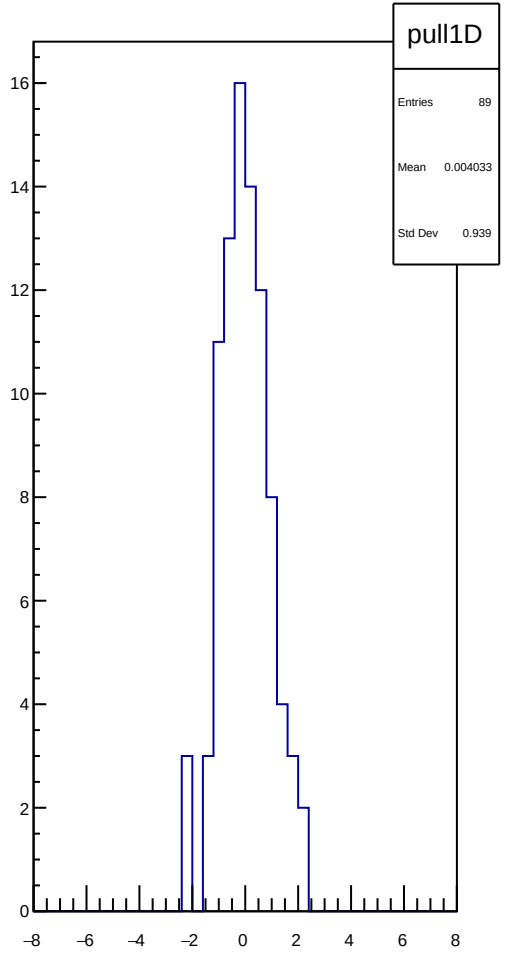

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 261.7 / 88
p0 1319 ± 1.015
1380
1360
1340
1320
1300
1280

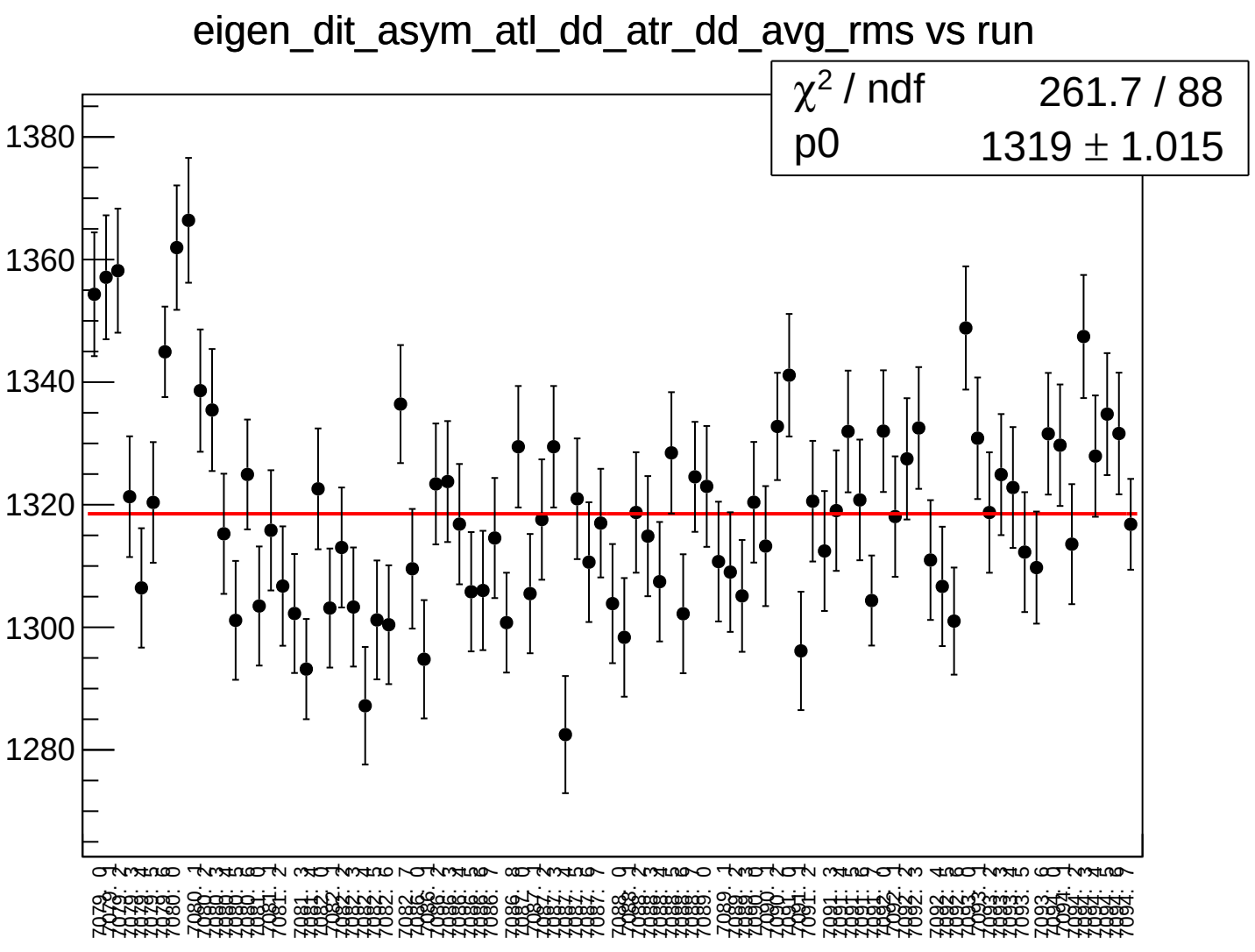

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 67.51 / 88
p0 826.6 ± 5928
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −435.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

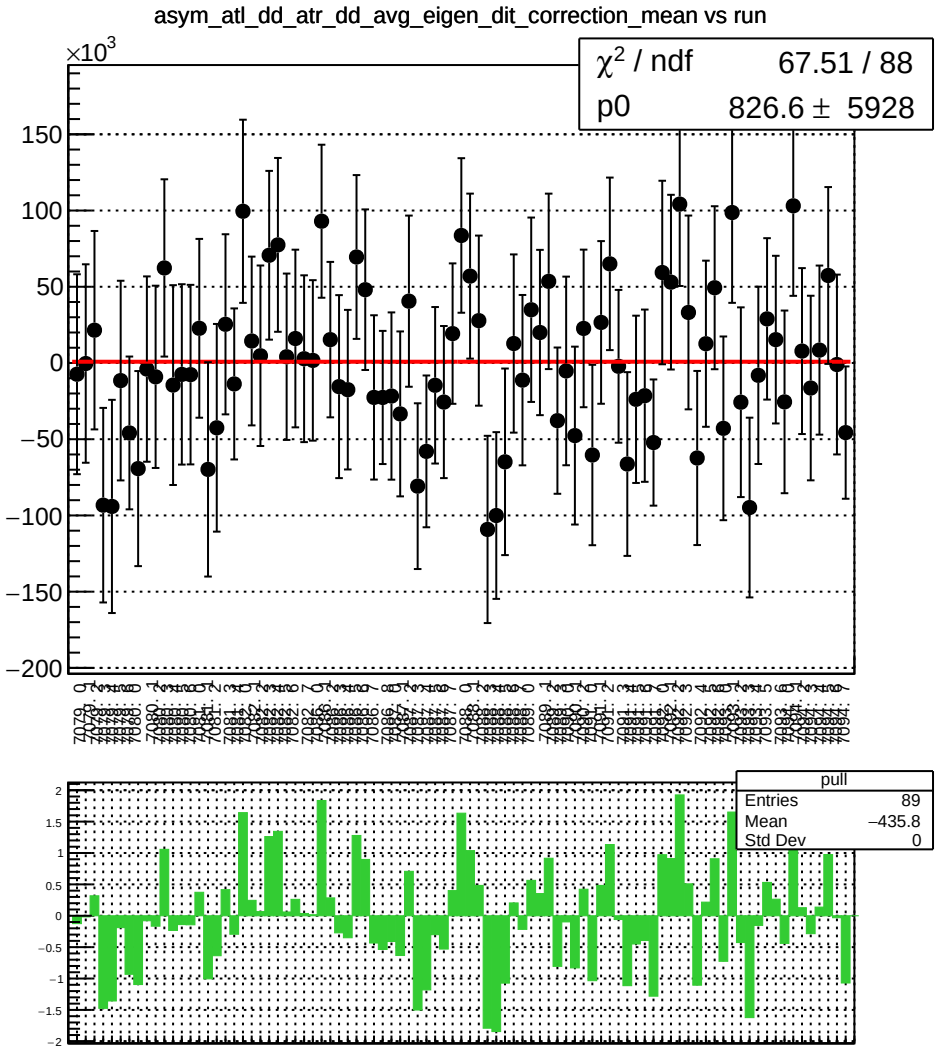

pull1D
Entries 89
Mean −0.003293
Std Dev 0.871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

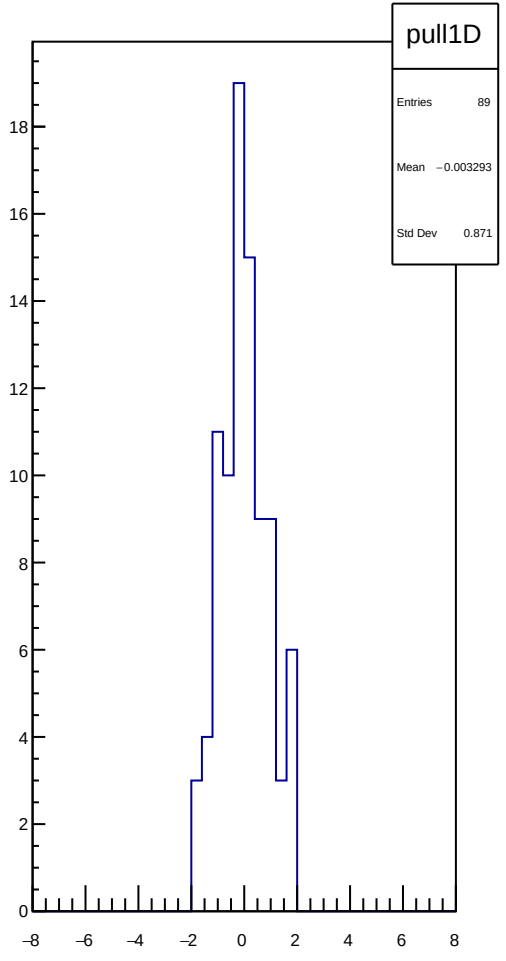

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.065e+04 / 88
p0 5425 ± 4.191
6500
6000
5500
5000
4500

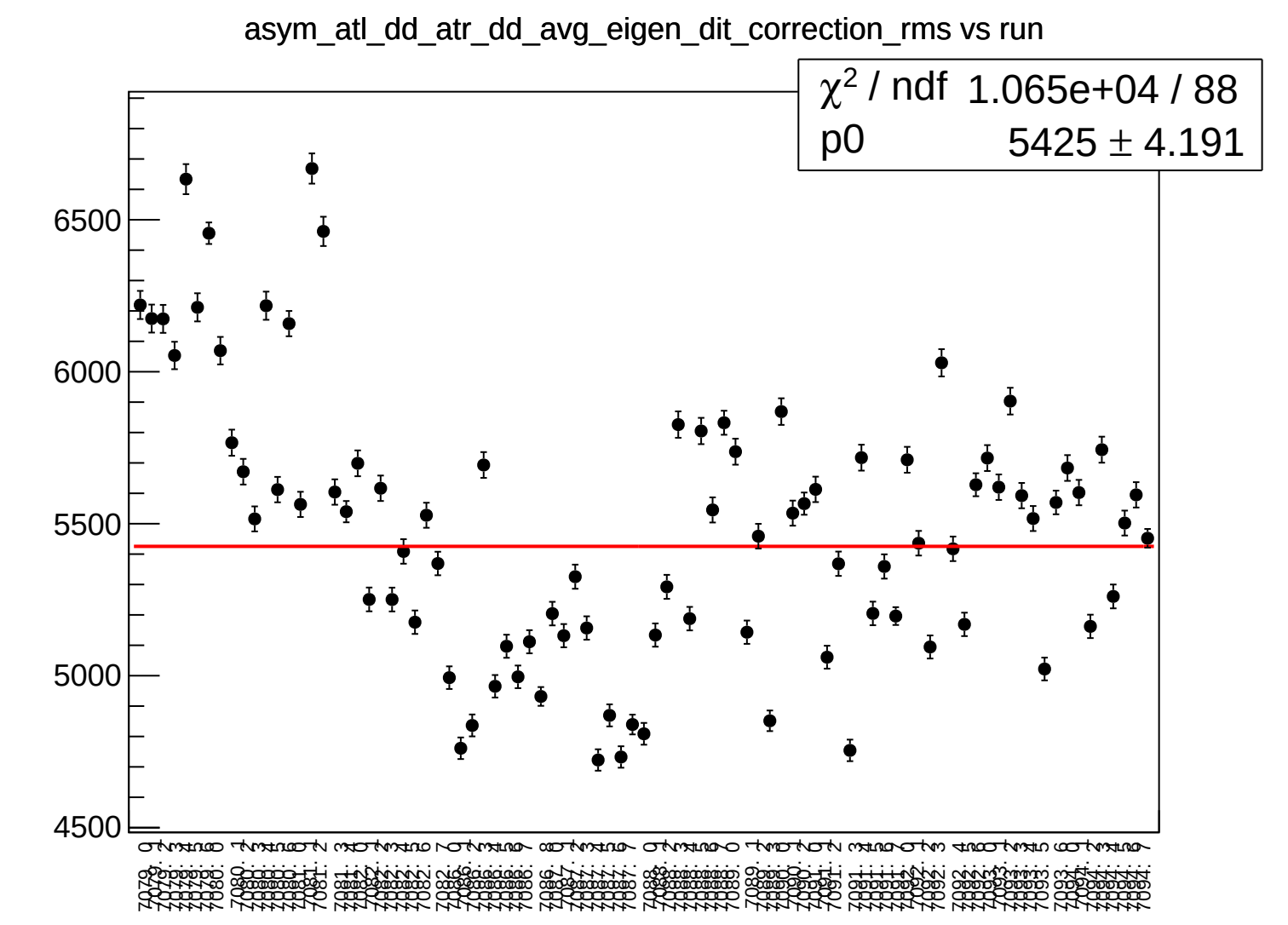

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.47 / 88
p0 1463 ± 1436
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 620.2
Std Dev 0
2
1
0
−1
−2

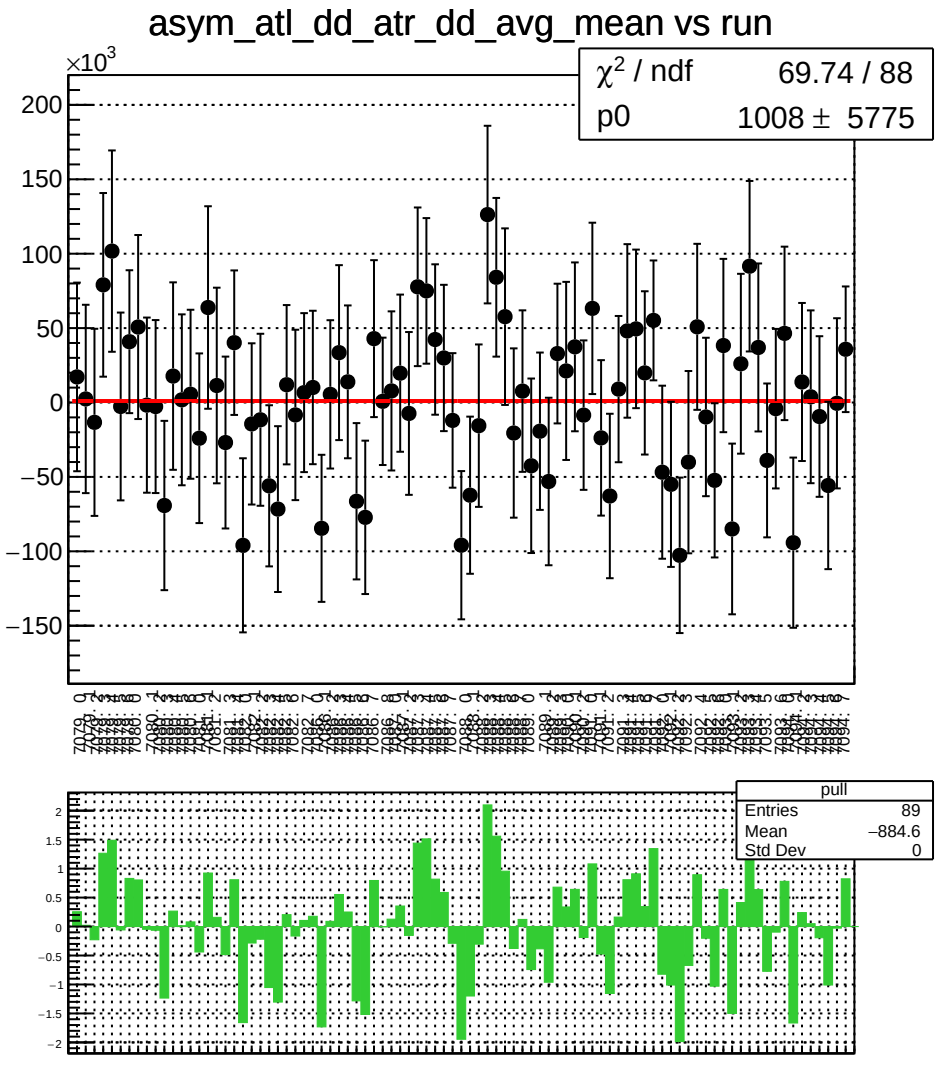

pull1D
Entries 89
Mean 0.004033
Std Dev 0.939
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

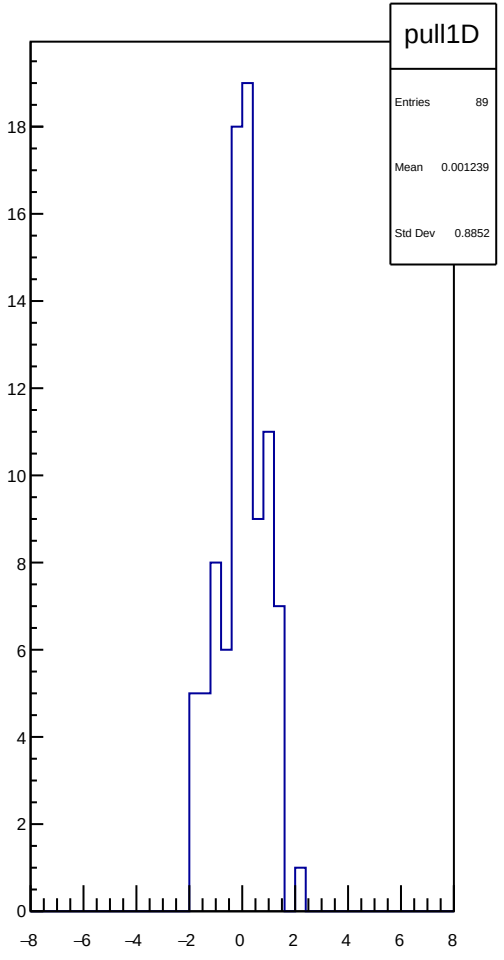

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 261.7 / 88
p0 1319 ± 1.015
1380
1360
1340
1320
1300
1280

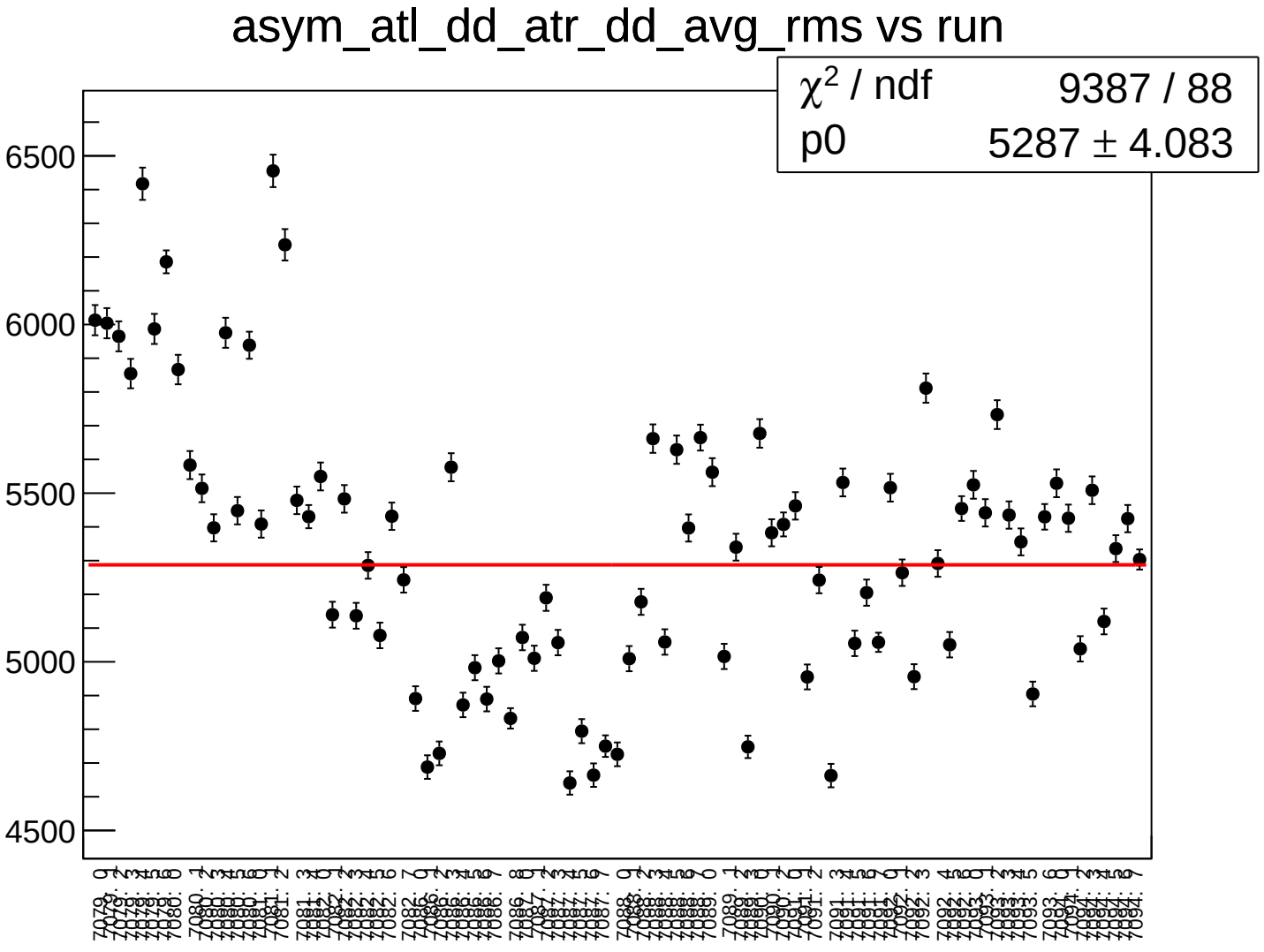

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.51 / 88
p0 826.6 ± 5928
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −435.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

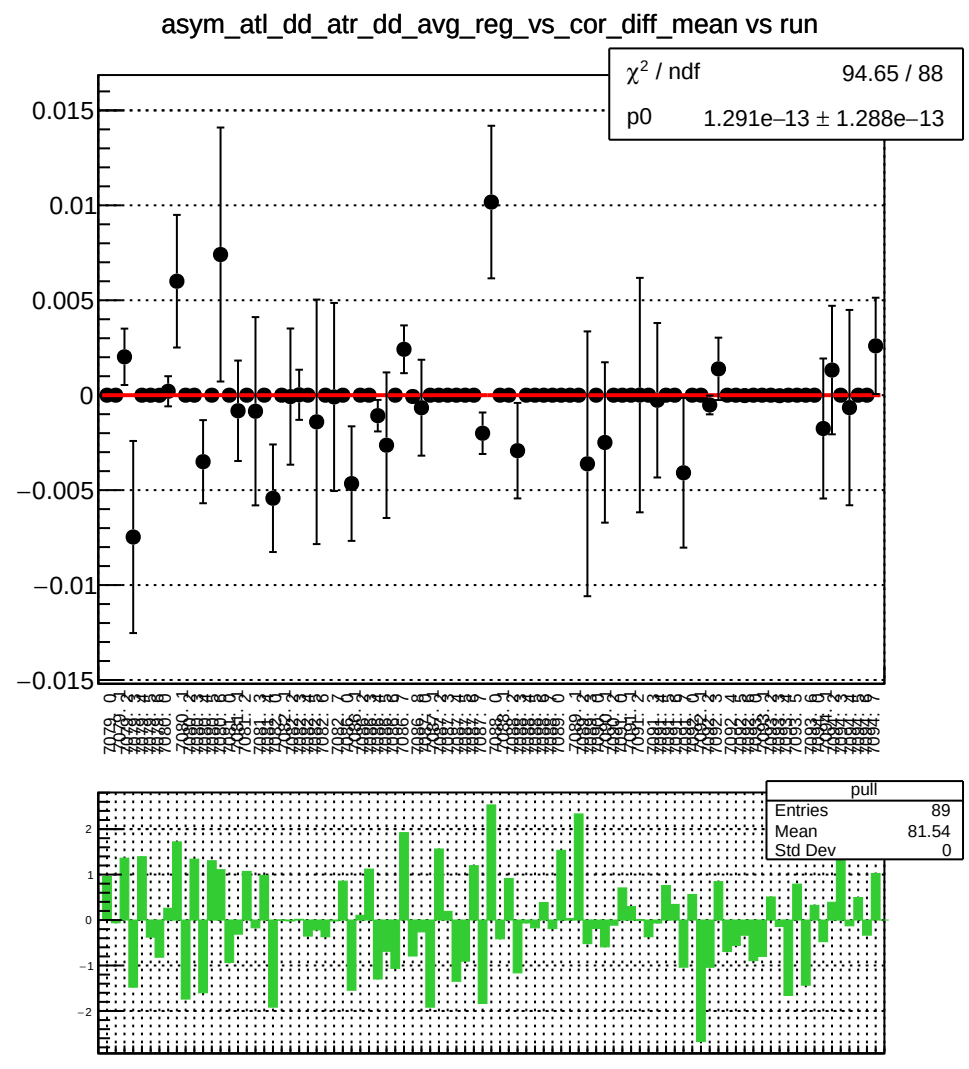

pull1D
Entries 89
Mean −0.003293
Std Dev 0.871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

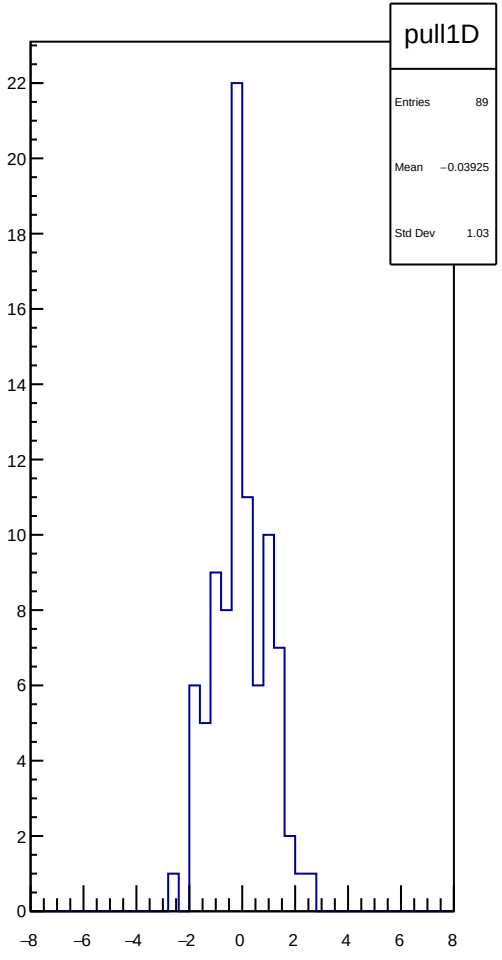

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.065e+04 / 88
p0 5425 ± 4.191
6500
6000
5500
5000
4500

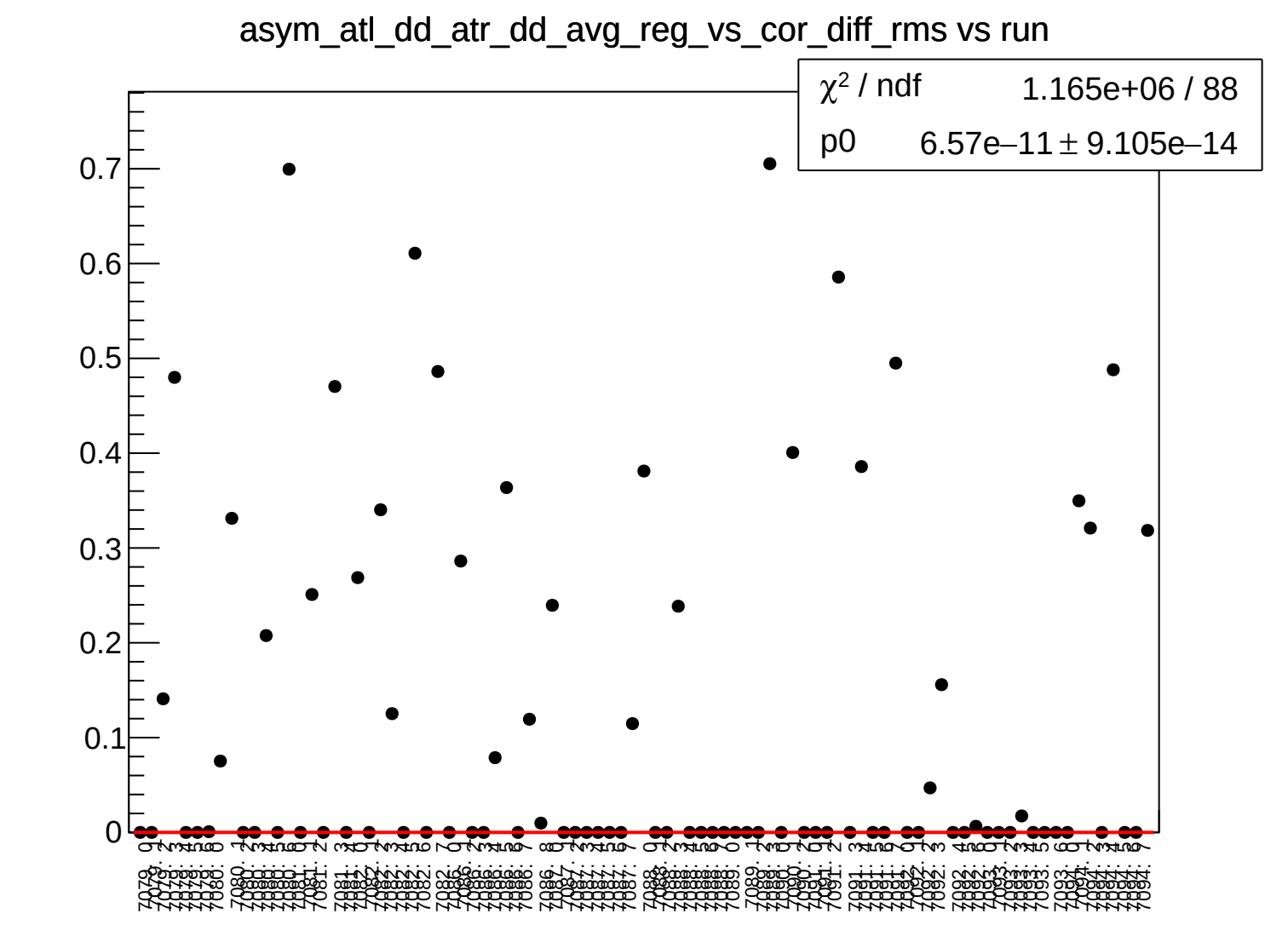

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 69.74 / 88
p0 1008 ± 5775
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −884.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

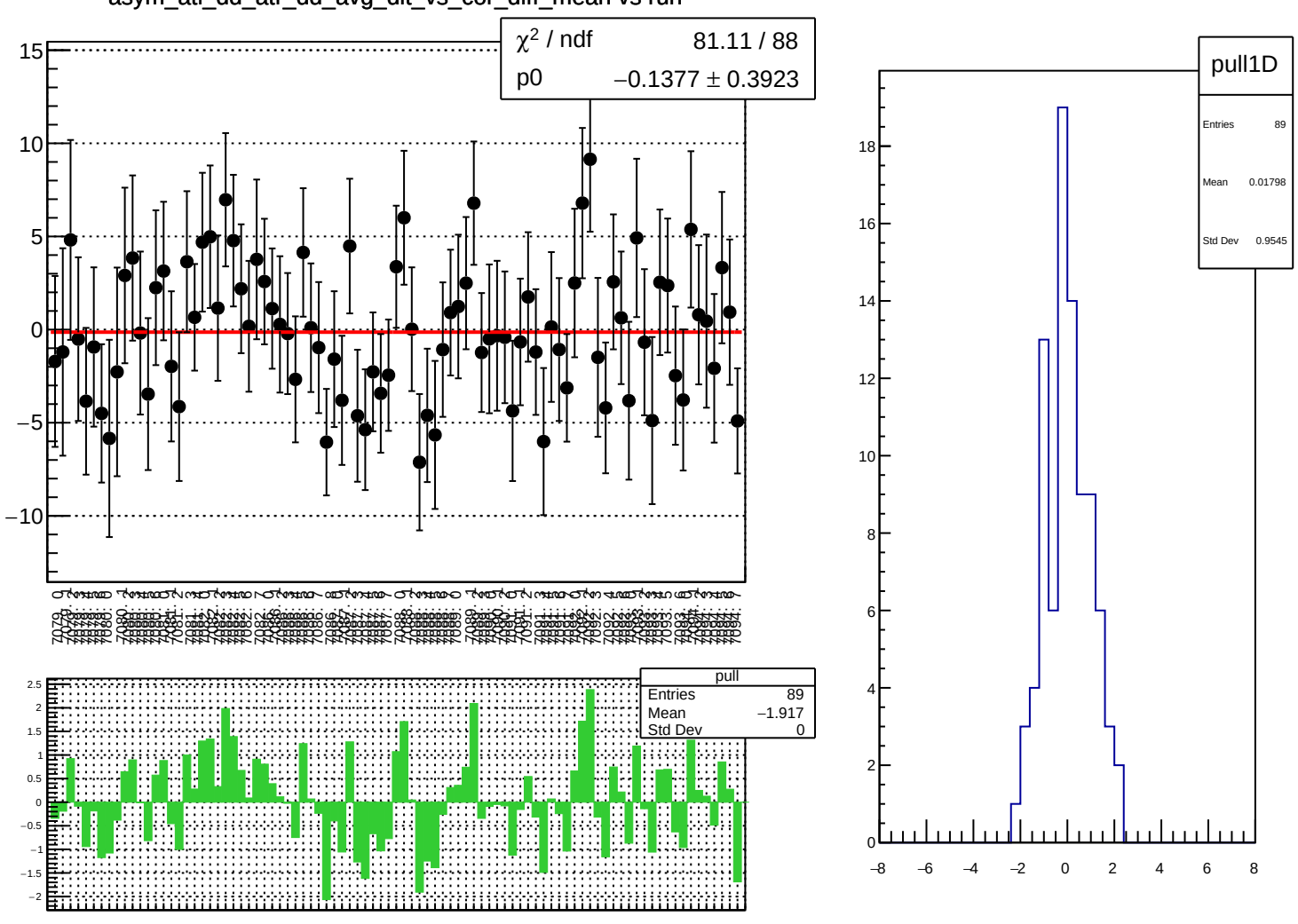

pull1D
Entries 89
Mean 0.001239
Std Dev 0.8852
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

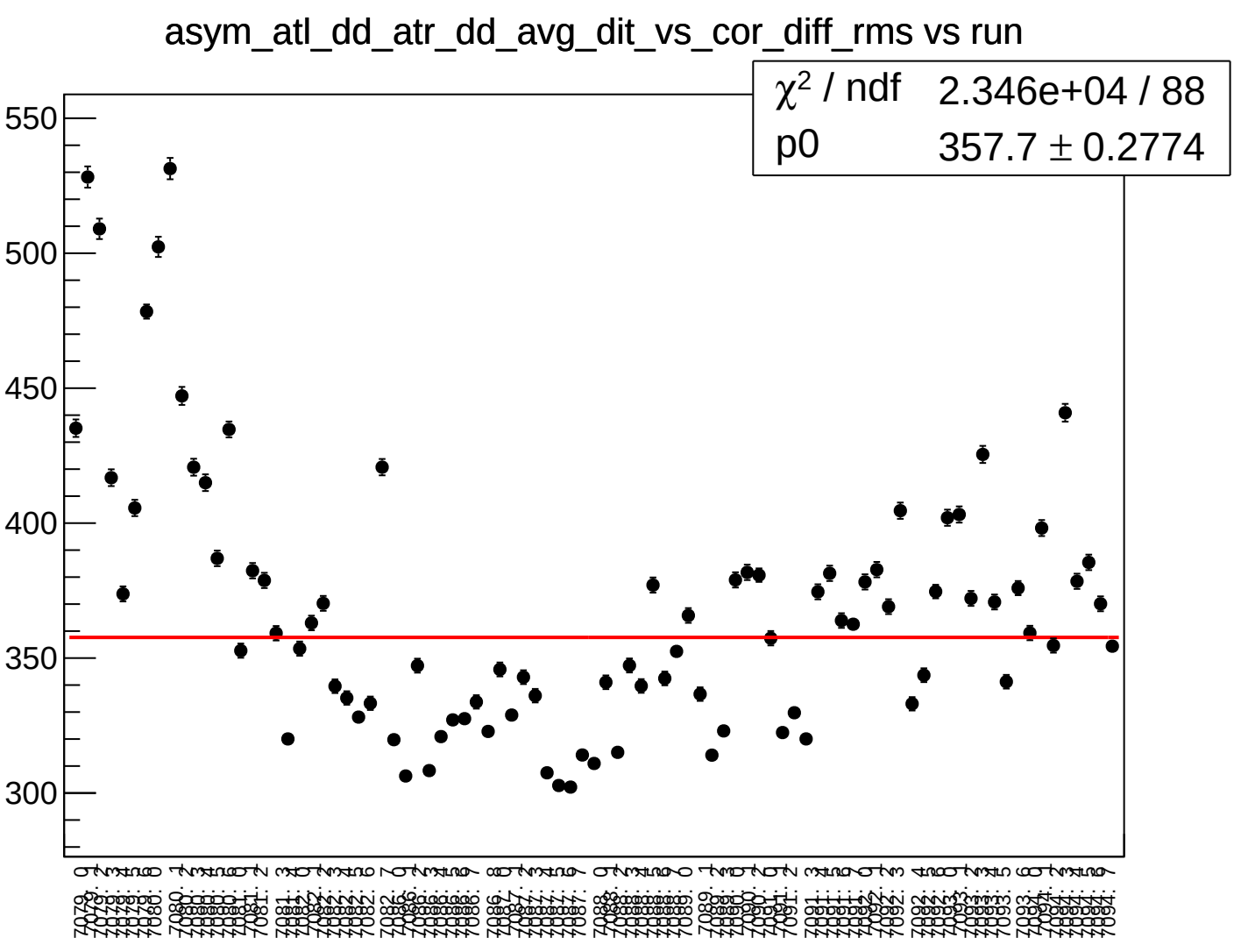

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 9387 / 88
p0 5287 ± 4.083
6500
6000
5500
5000
4500

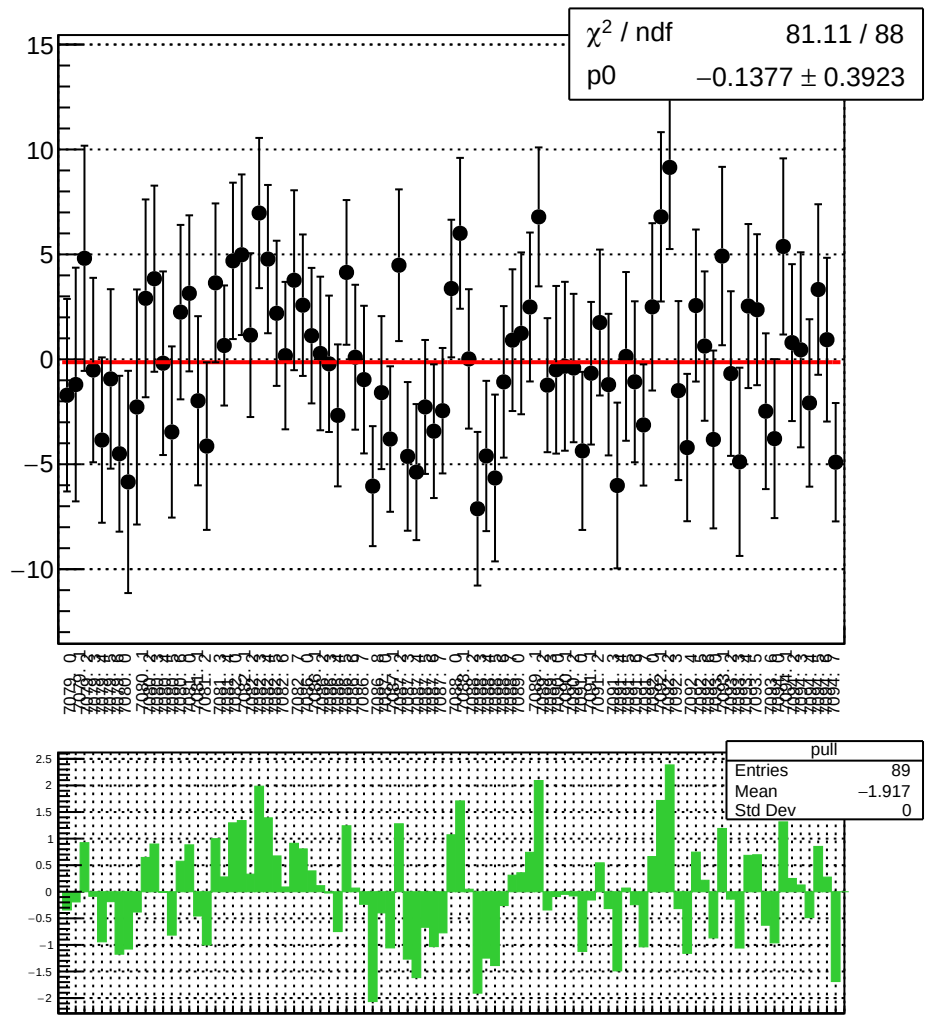

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.65 / 88
p0 1.291e−13 ± 1.288e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 81.54
Std Dev 0
2
1
0
−1
−2

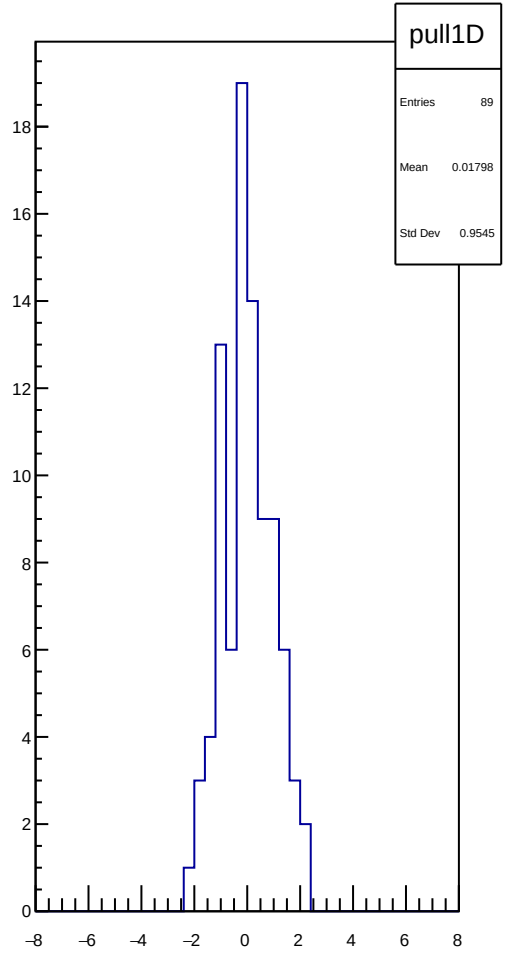

pull1D
Entries 89
Mean −0.03925
Std Dev 1.03
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

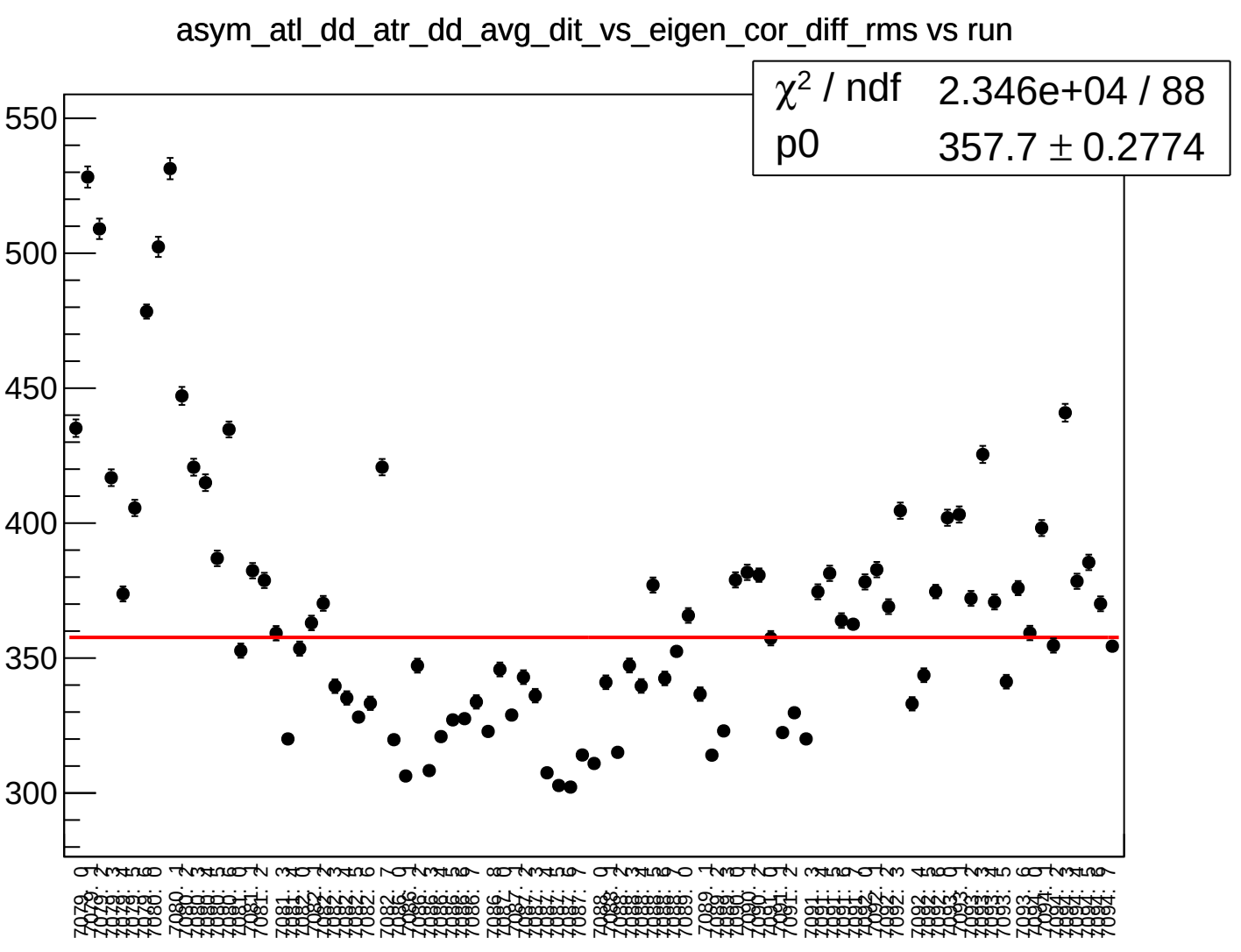

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.165e+06 / 88
p0 6.57e−11 ± 9.105e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

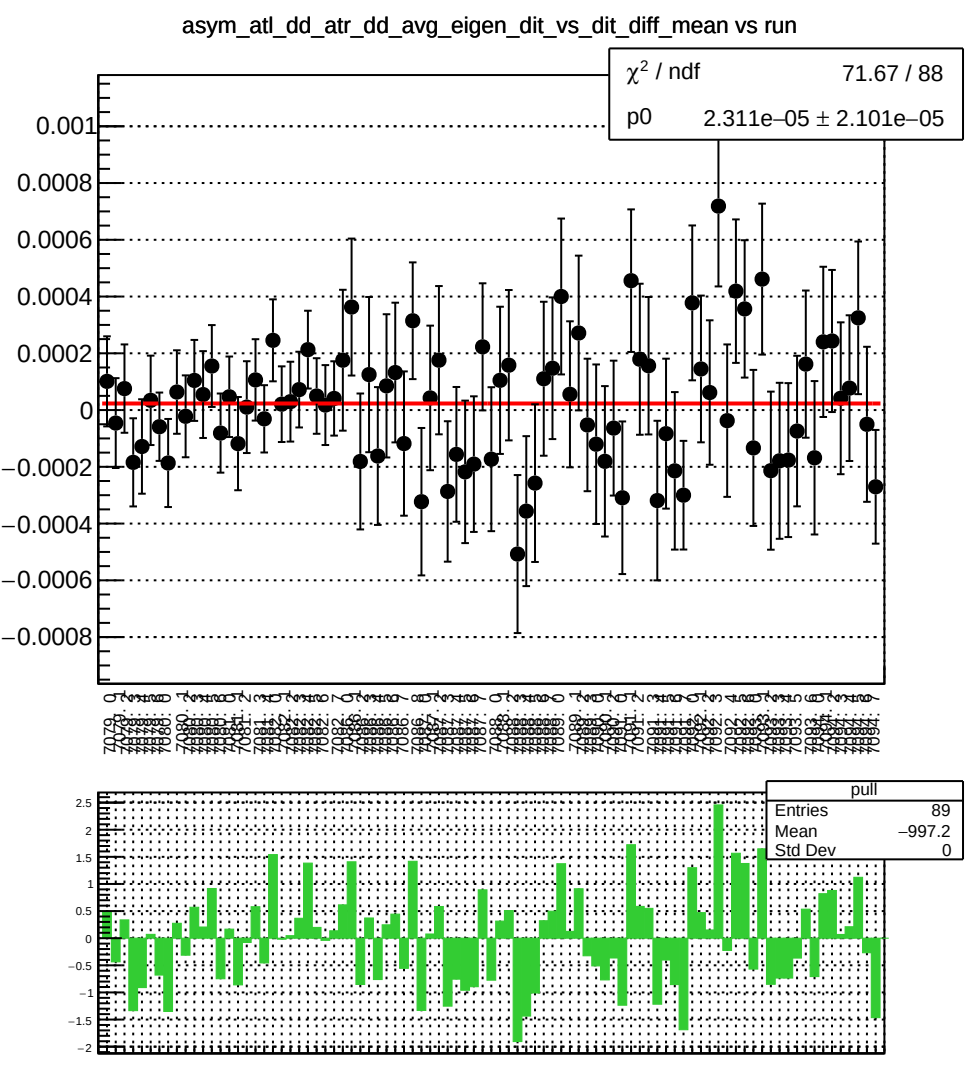

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.917
Std Dev 0
pull1D
Entries 89
Mean 0.01798
Std Dev 0.9545

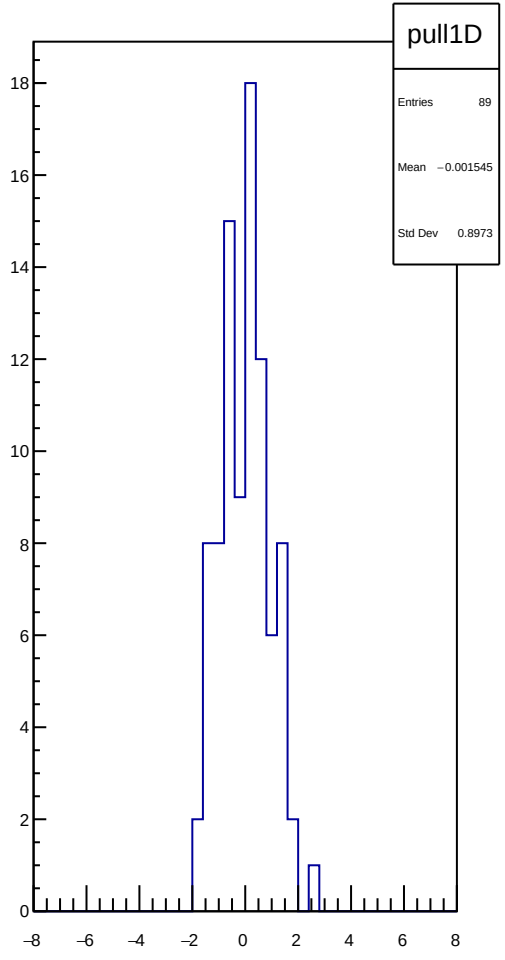

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

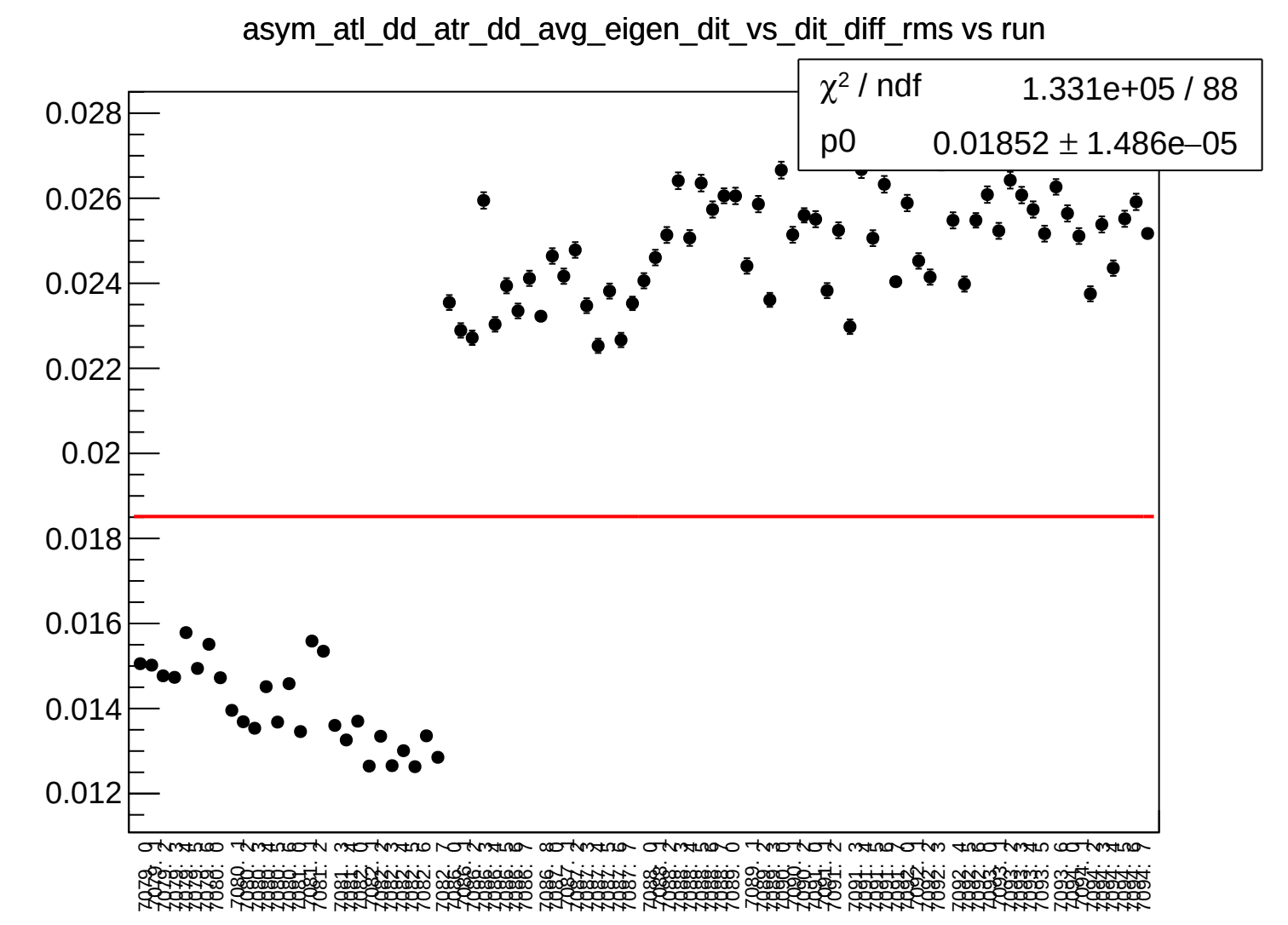

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.917
Std Dev 0

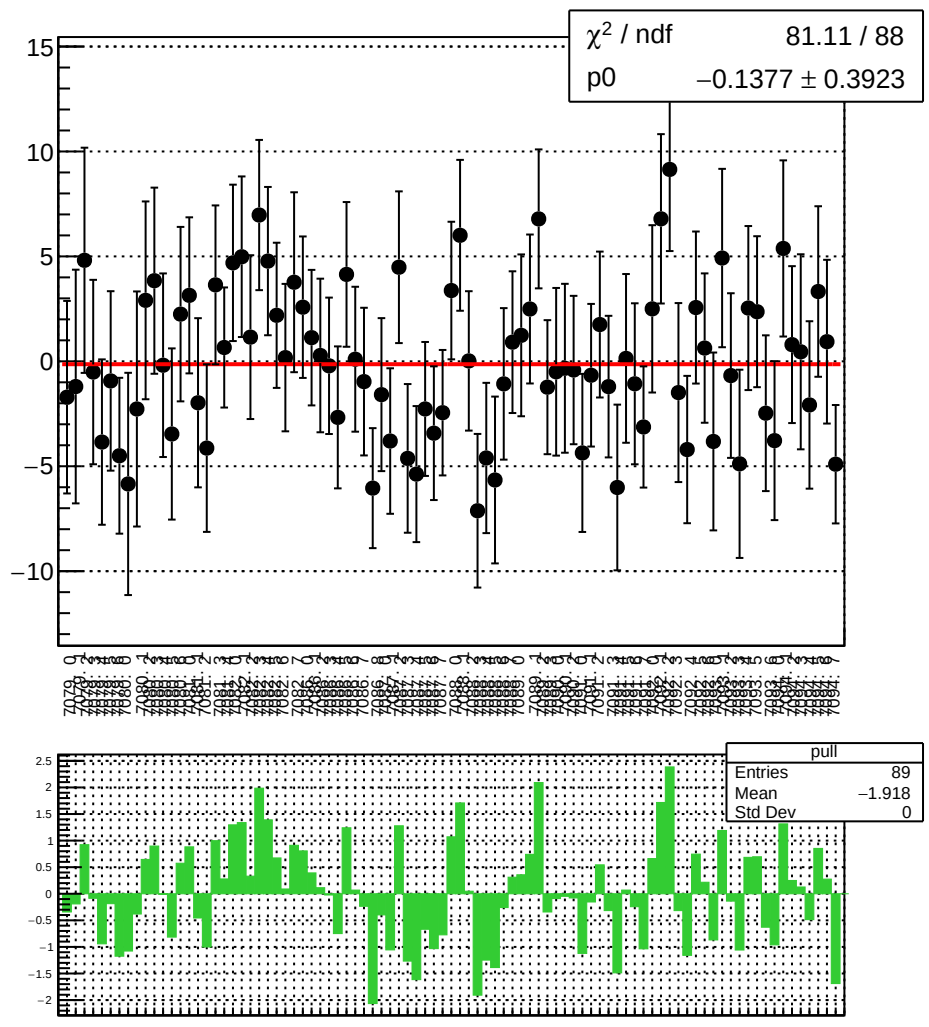

pull1D
Entries 89
Mean 0.01798
Std Dev 0.9545

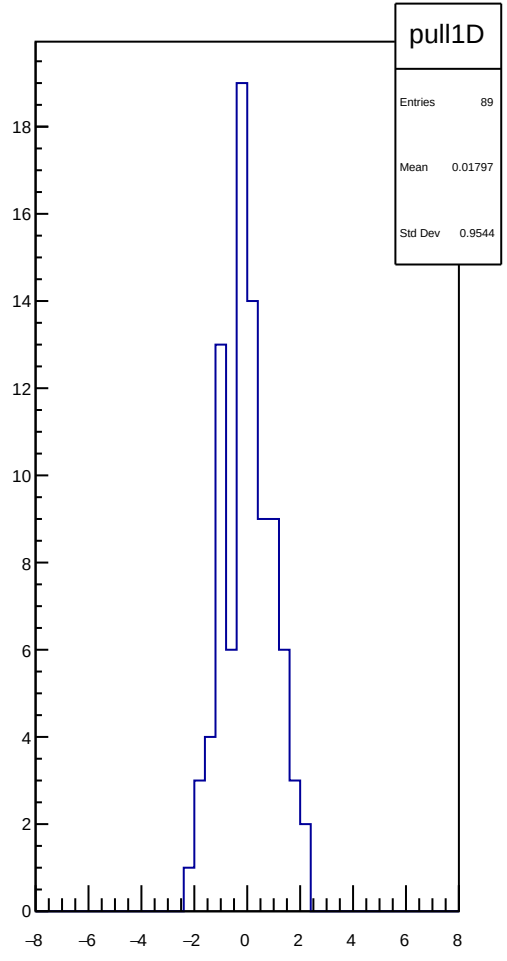

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

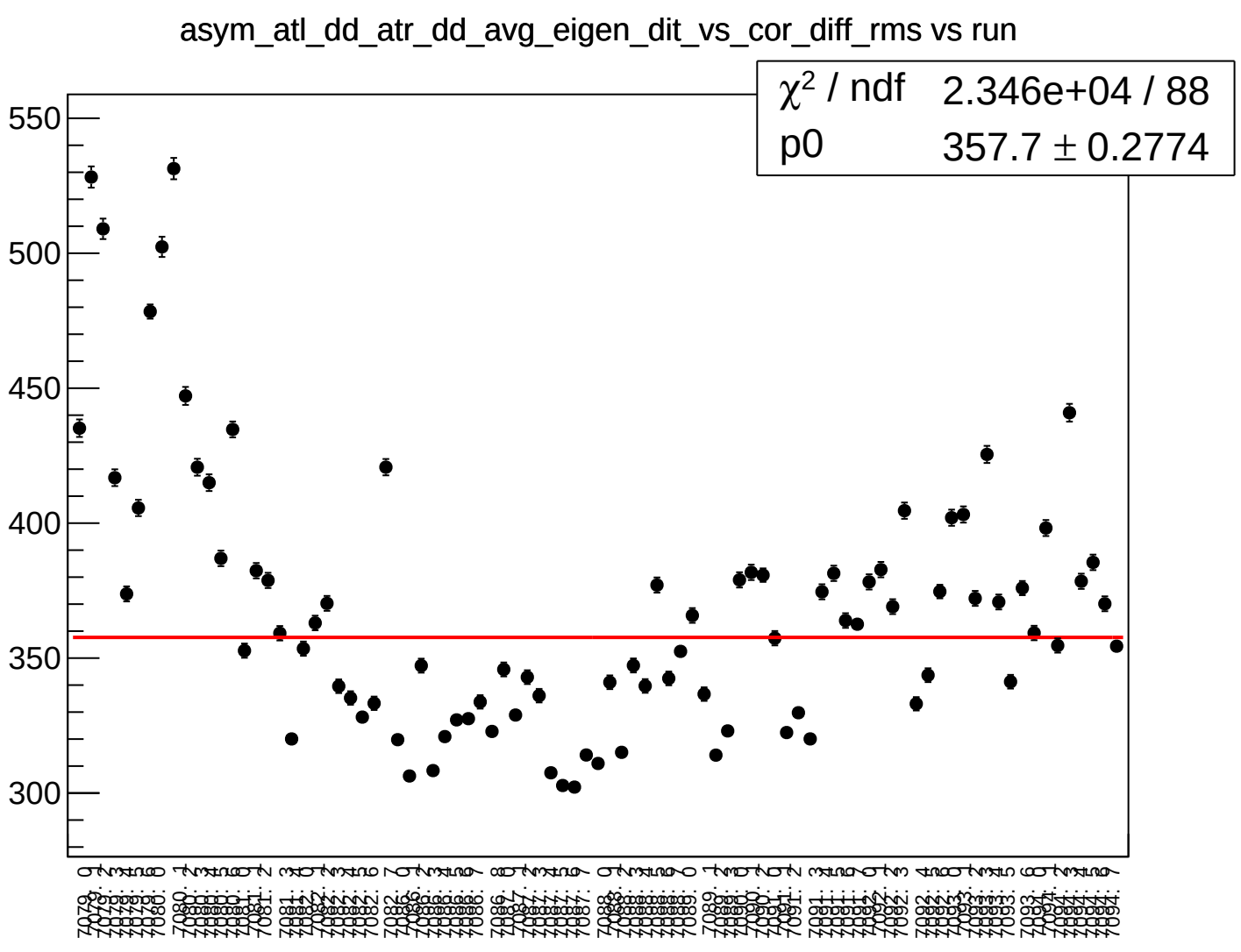

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.67 / 88
p0 2.311e−05 ± 2.101e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 89
Mean −997.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

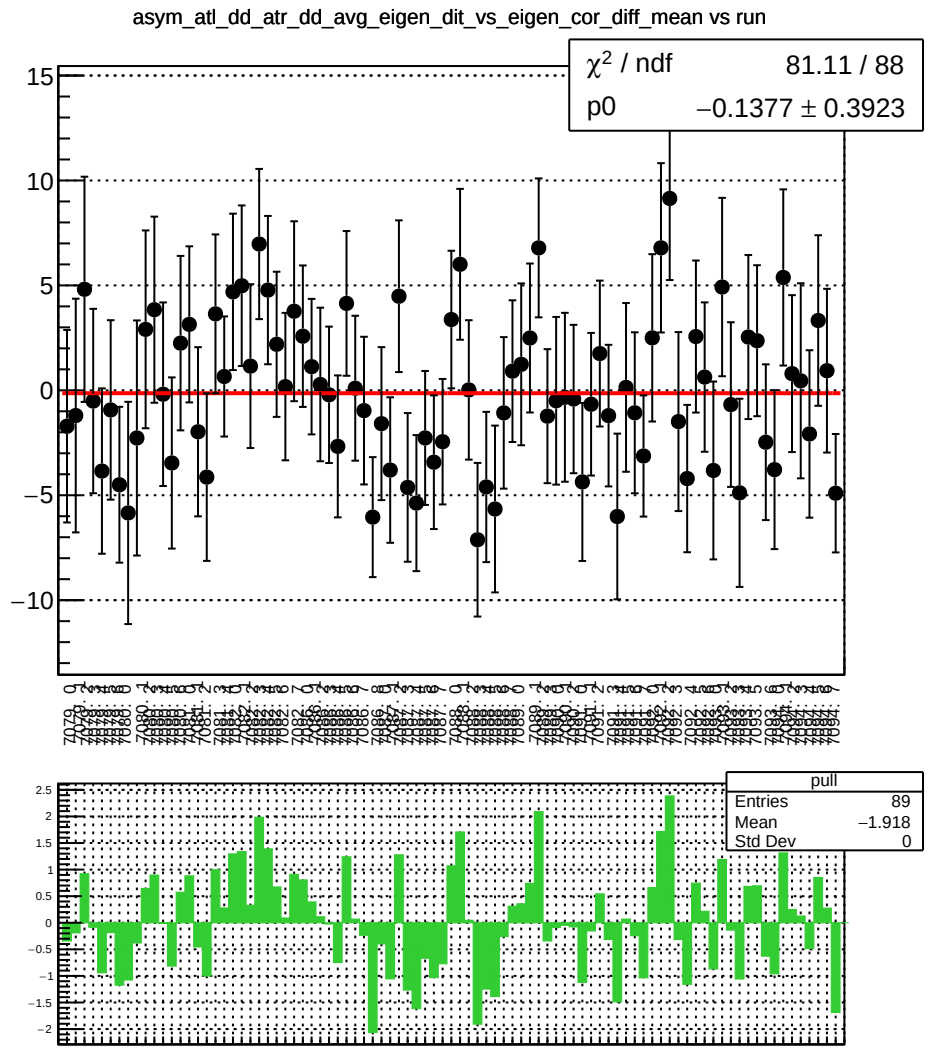

pull1D
Entries 89
Mean −0.001545
Std Dev 0.8973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

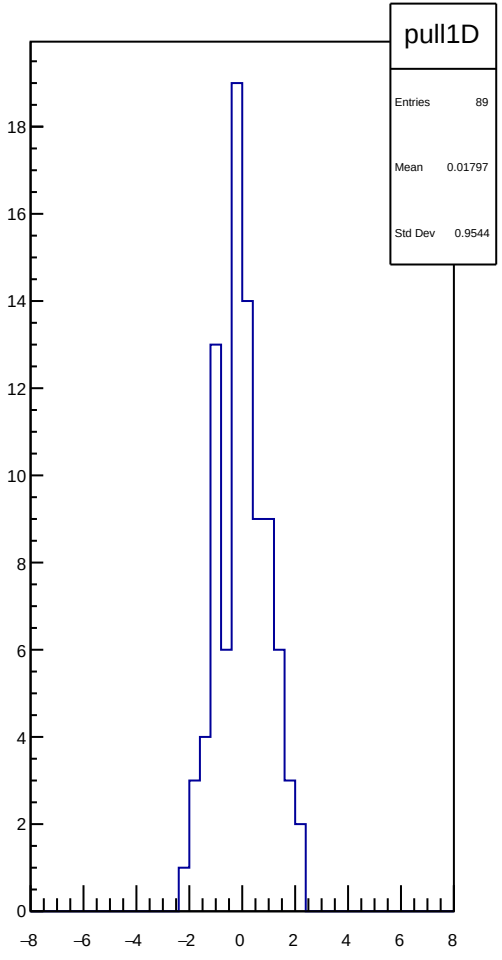

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.331e+05 / 88
p0 0.01852 ± 1.486e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

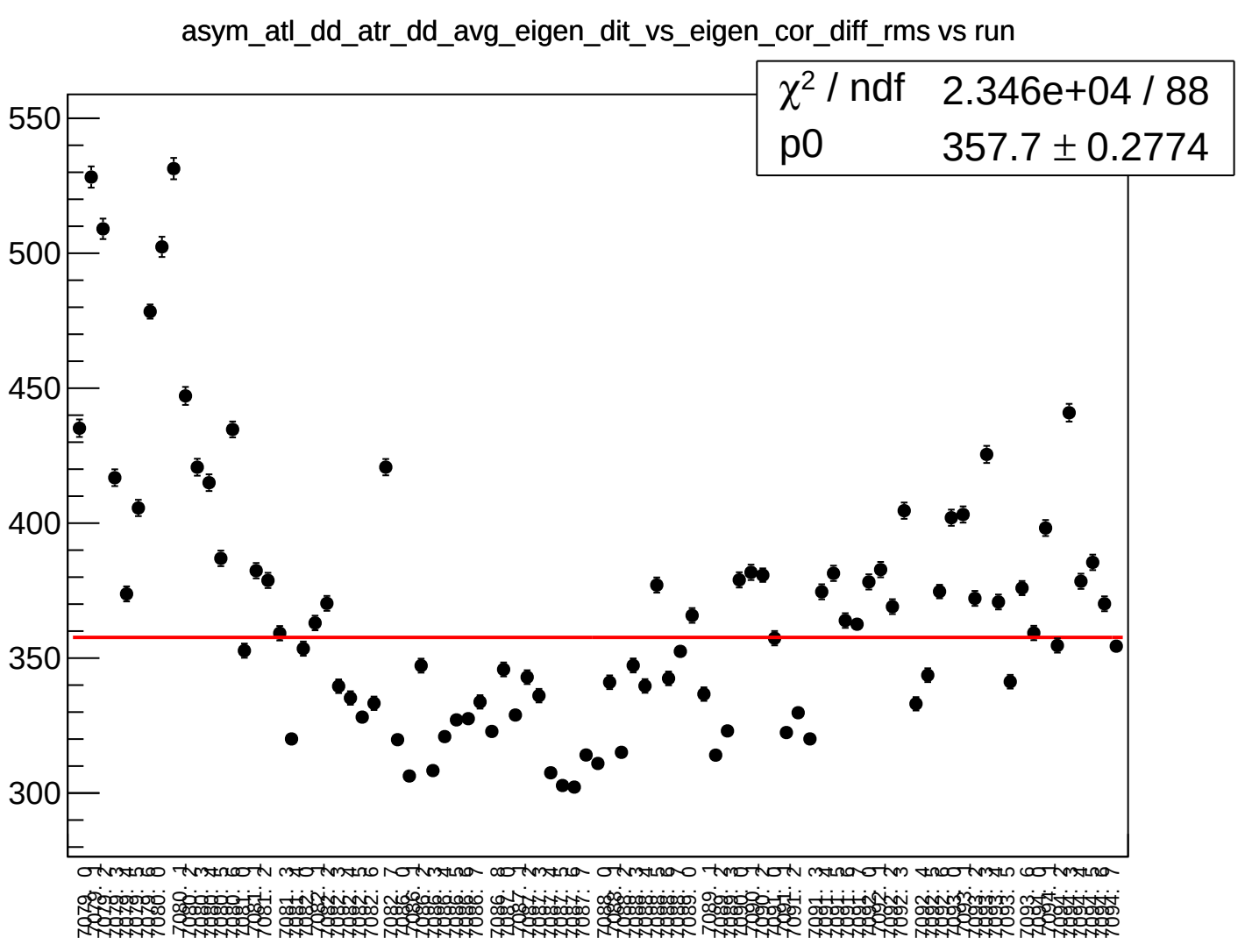

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.918
Std Dev 0

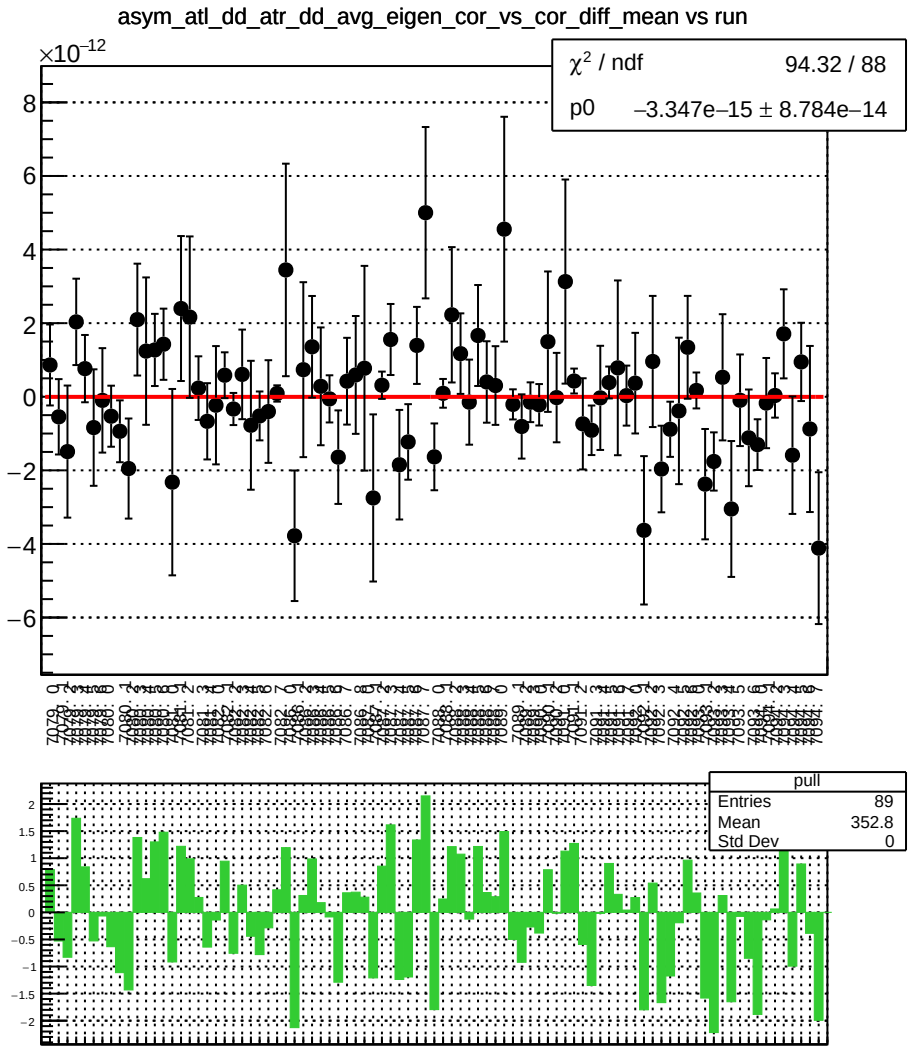

pull1D
Entries 89
Mean 0.01797
Std Dev 0.9544

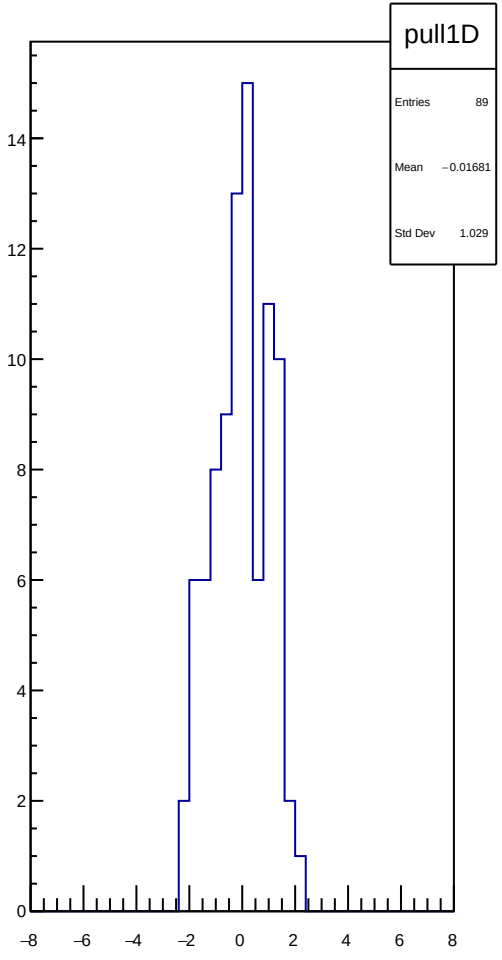

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

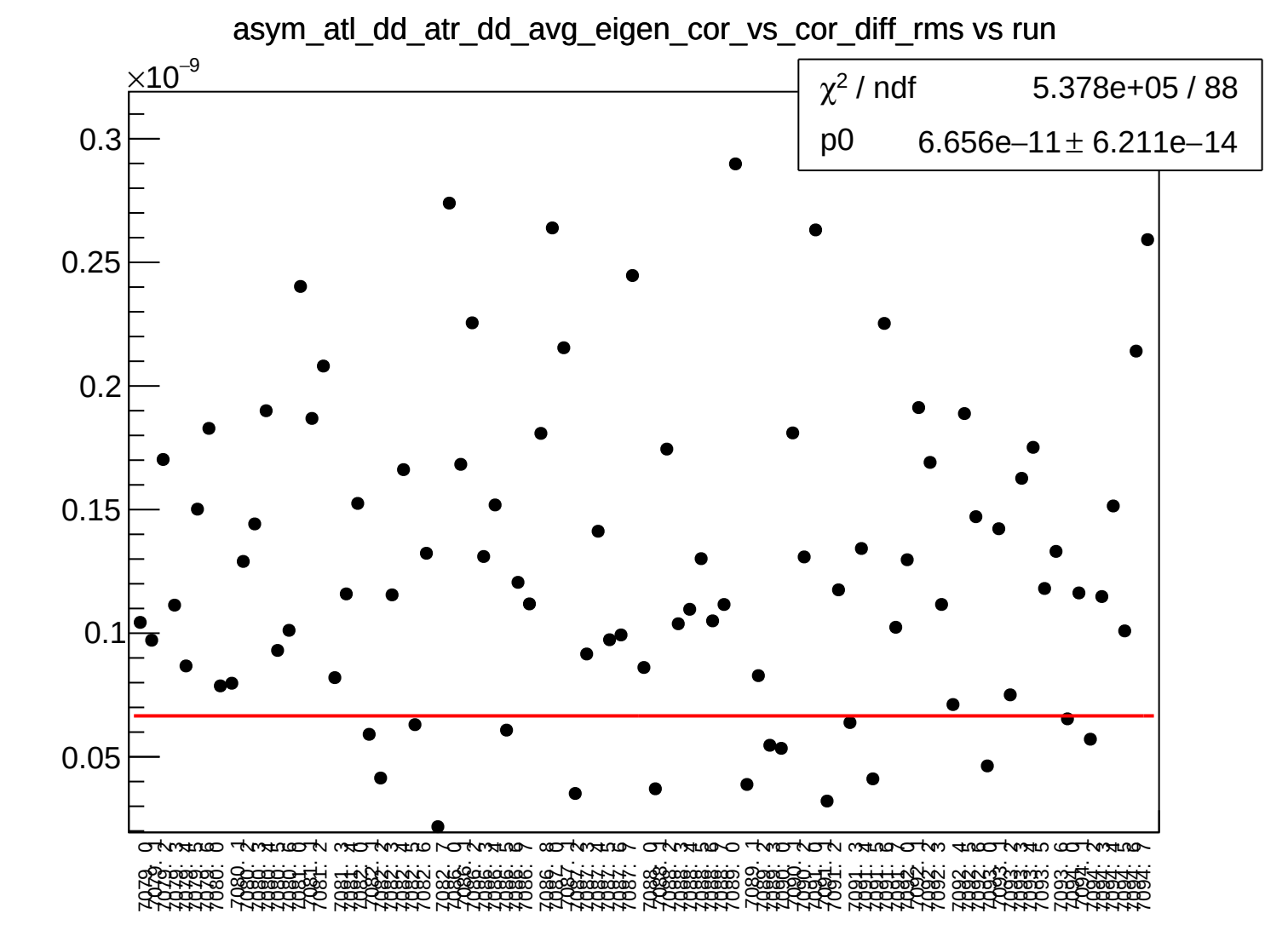

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.918
Std Dev 0

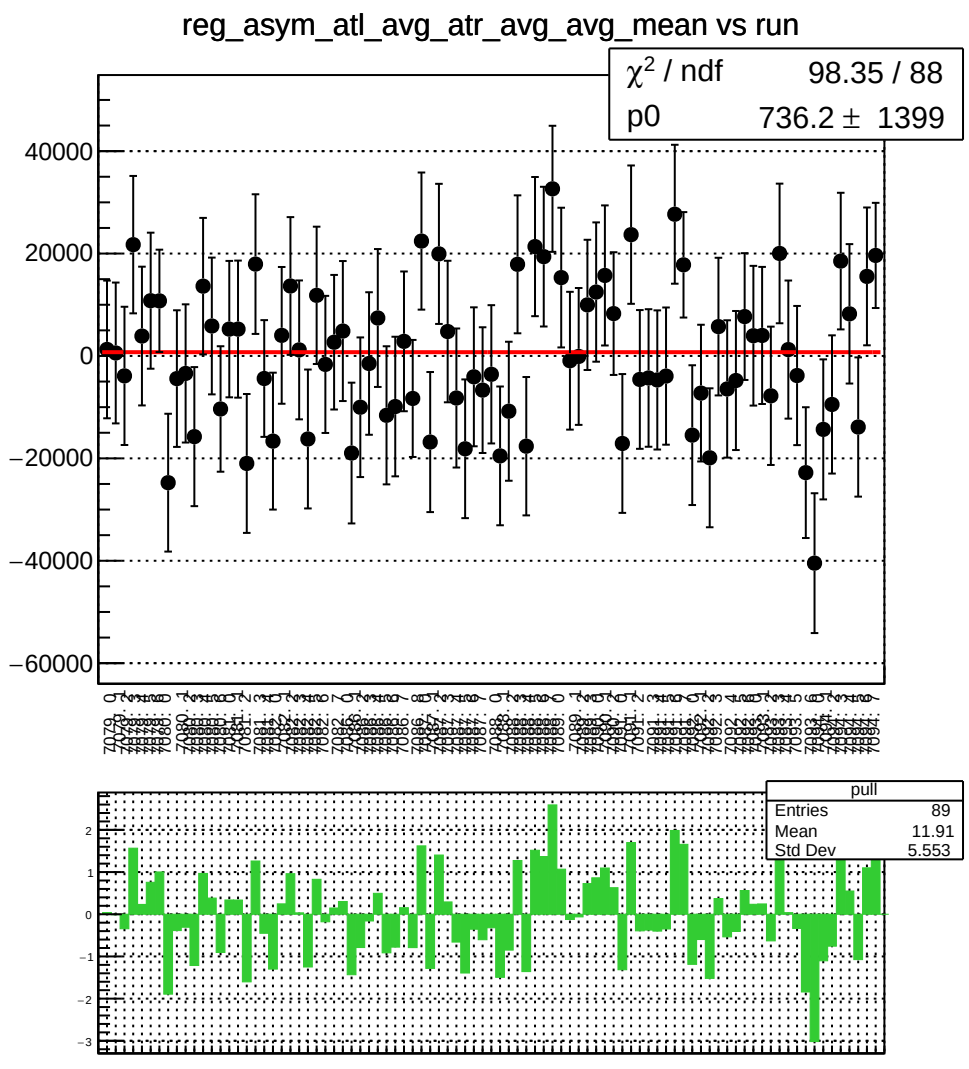

pull1D
Entries 89
Mean 0.01797
Std Dev 0.9544

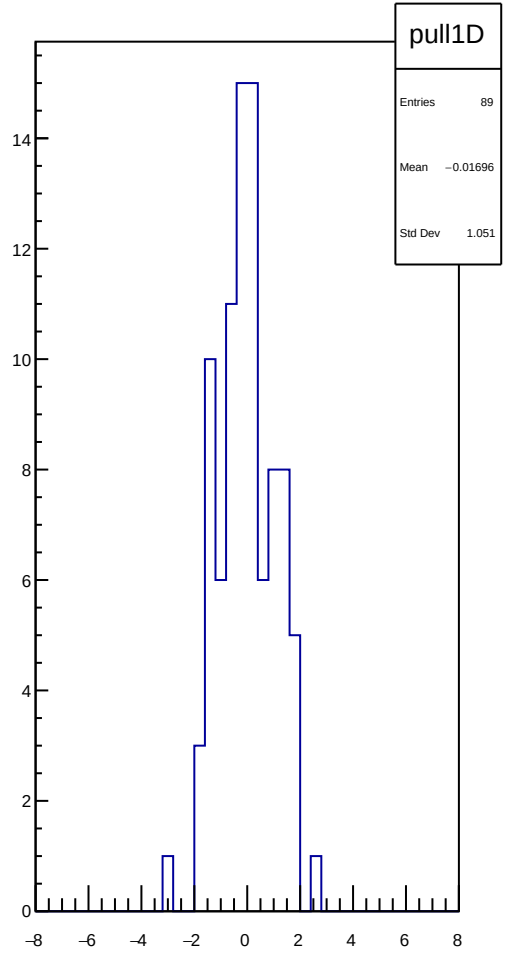

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

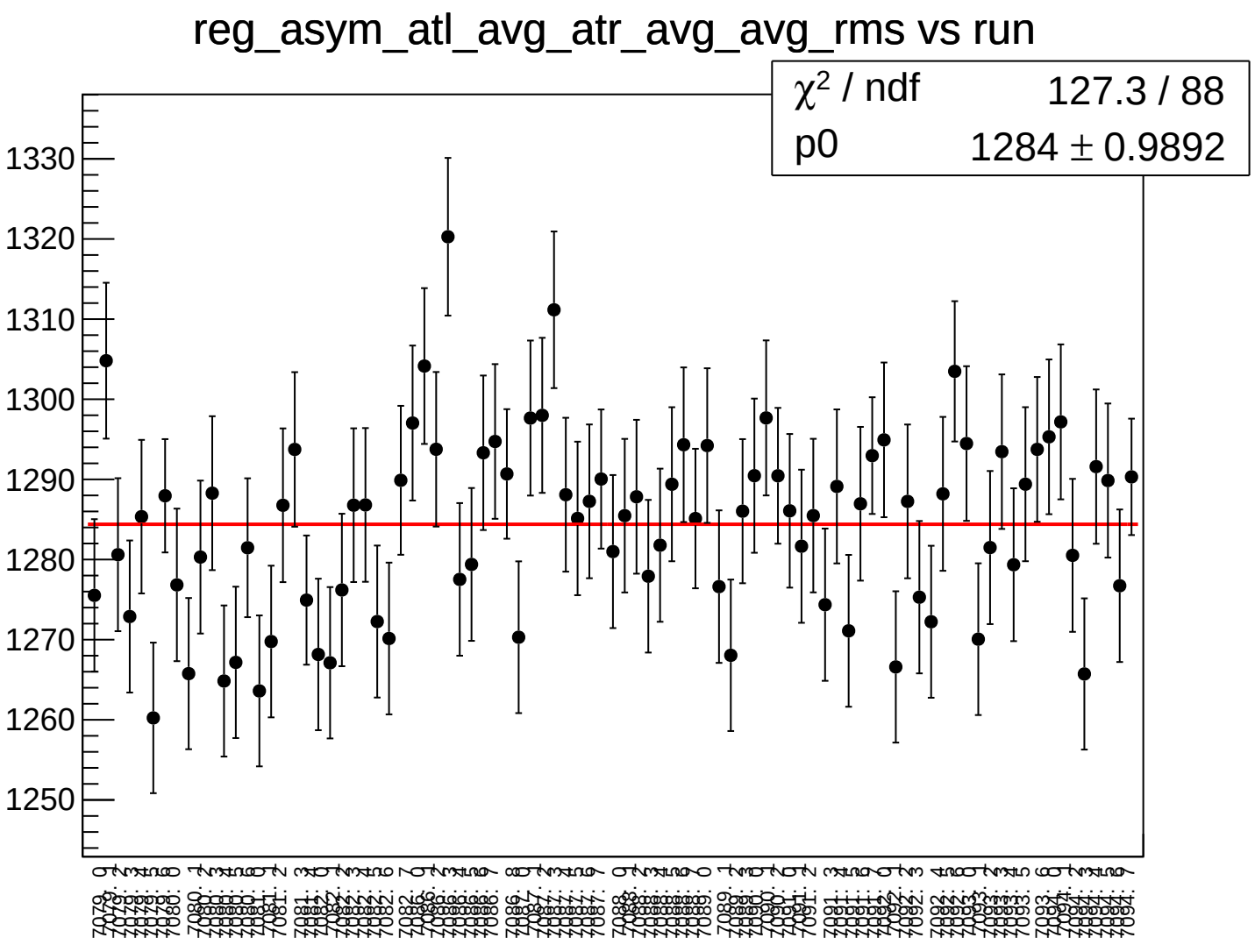

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.32 / 88
p0 −3.347e−15 ± 8.784e−14
pull
Entries 89
Mean 352.8
Std Dev 0

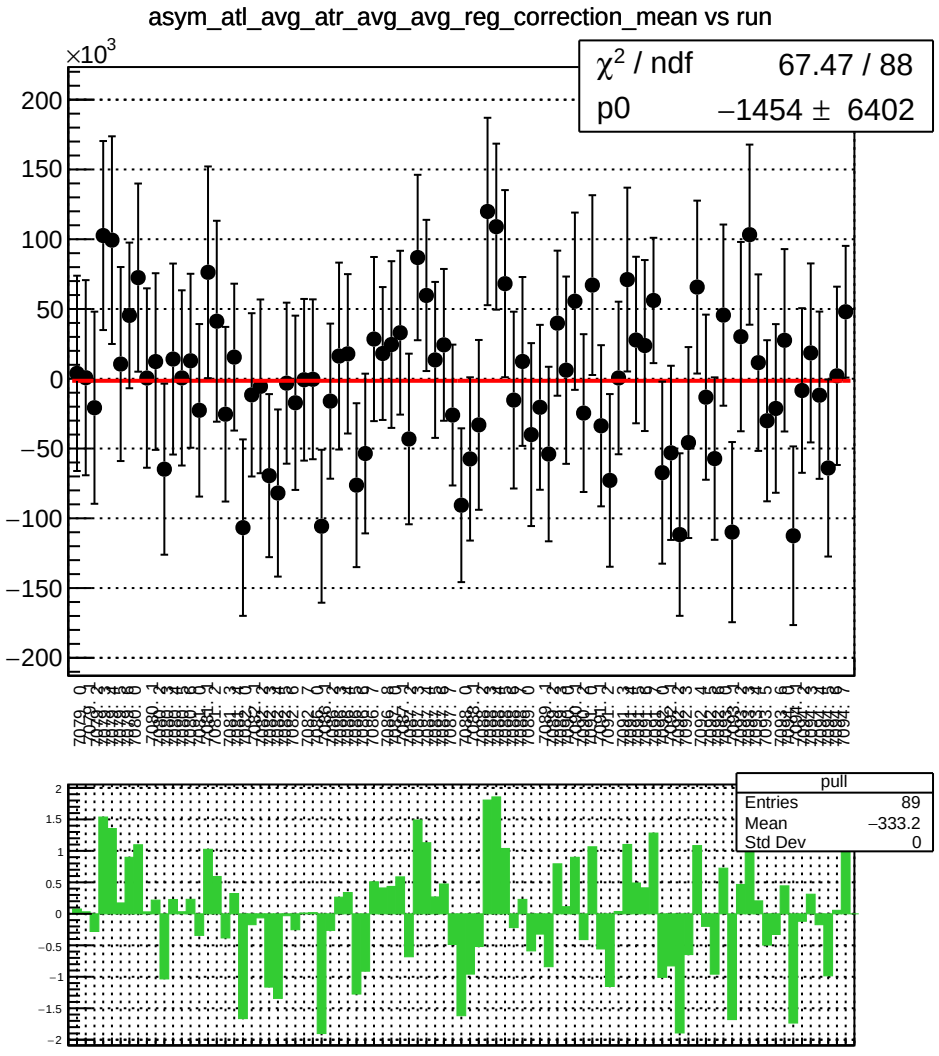

pull1D
Entries 89
Mean −0.01681
Std Dev 1.029

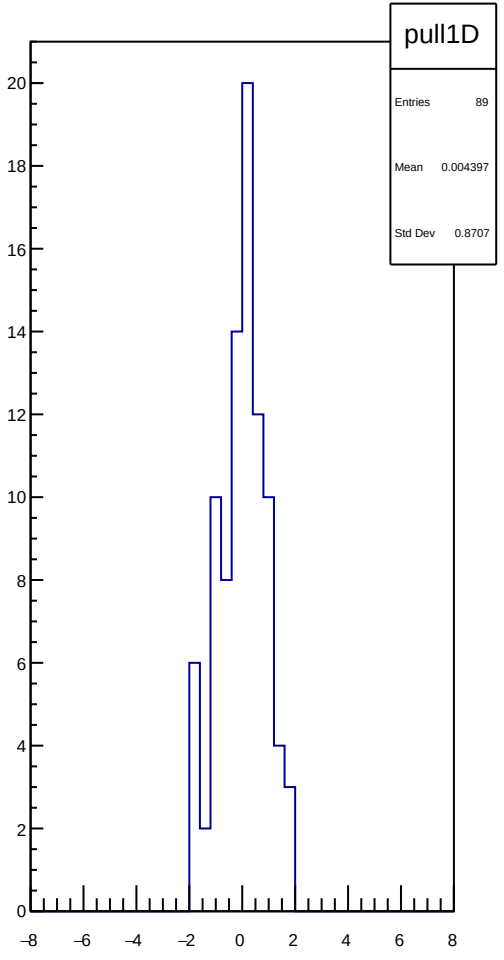

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.378e+05 / 88
p0 6.656e−11 ± 6.211e−14
0.3
0.25
0.2
0.15
0.1
0.05

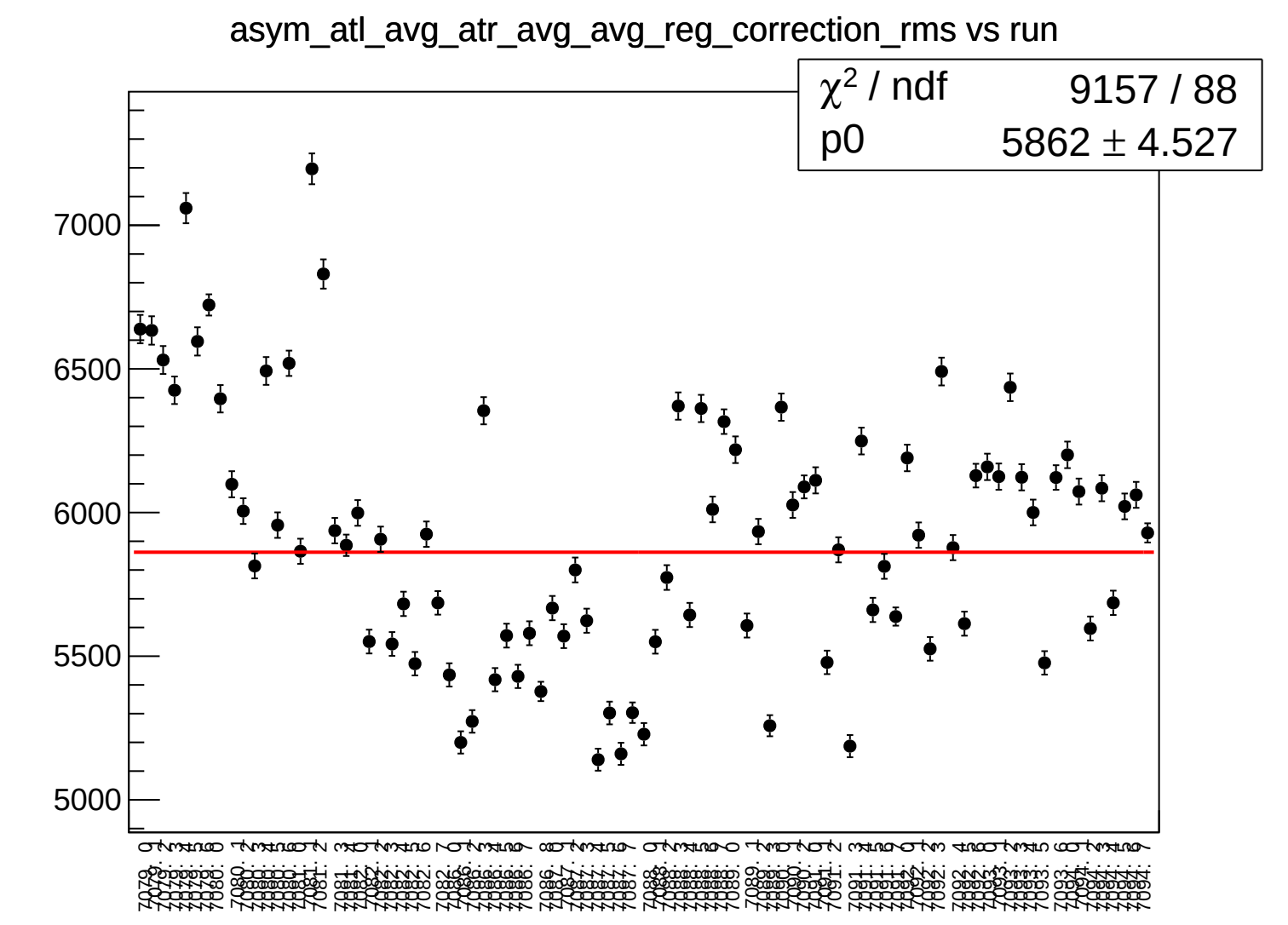

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.35 / 88
p0 736.2 ± 1399
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 11.91
Std Dev 5.553
2
1
0
−1
−2
−3

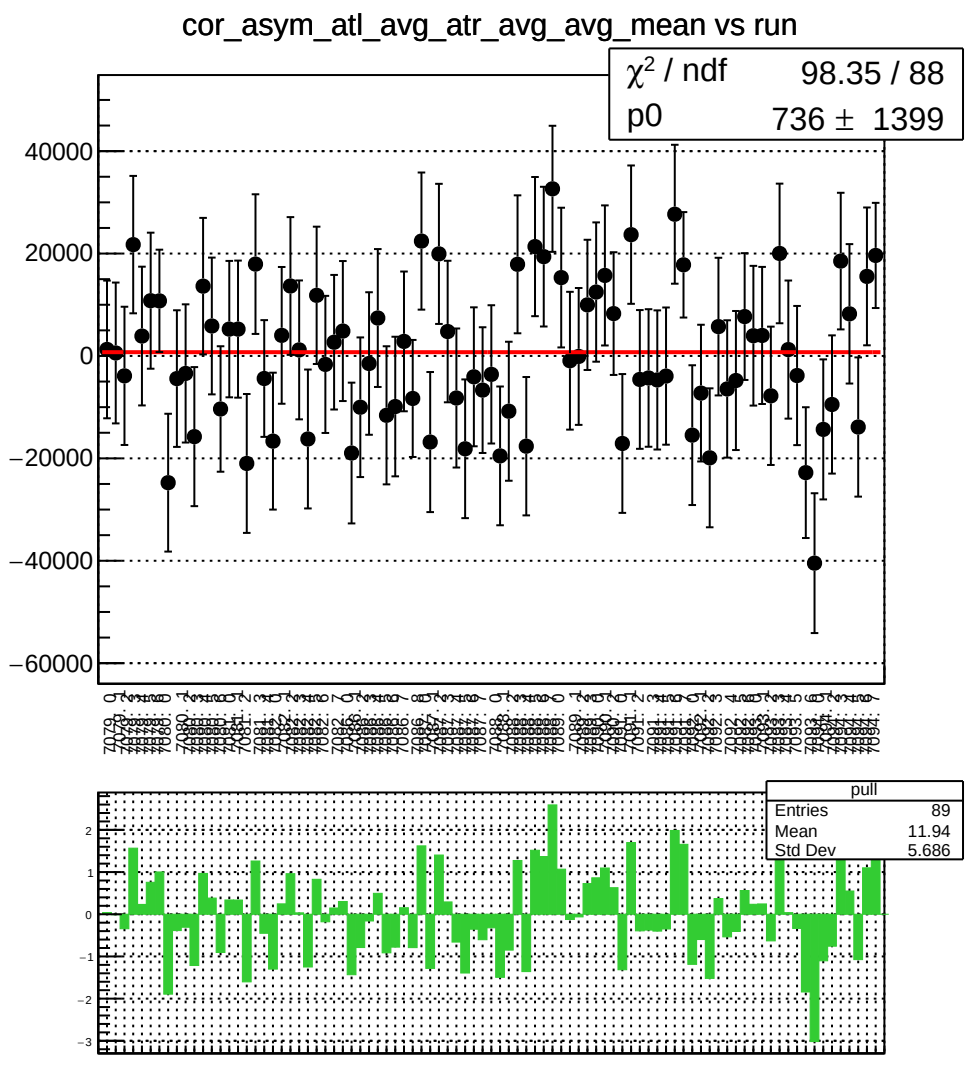

pull1D
Entries 89
Mean −0.01696
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

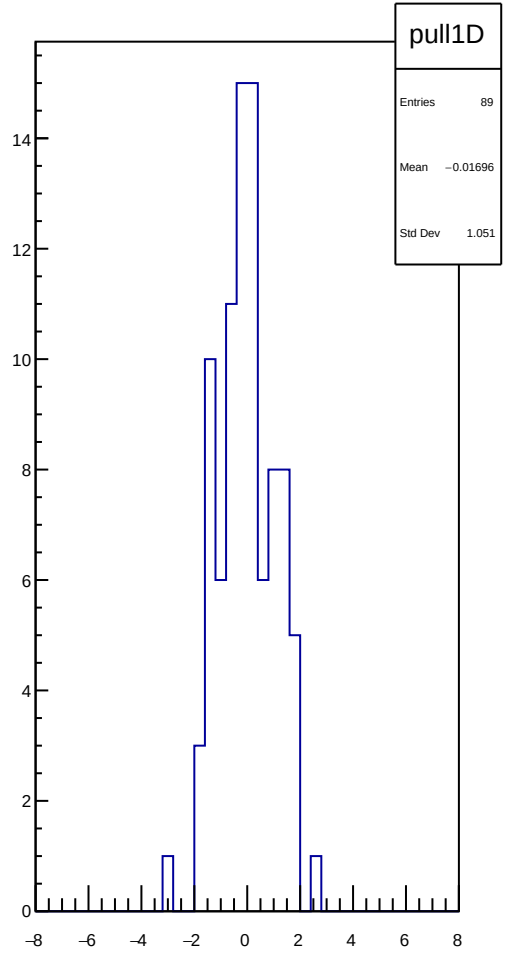

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 127.3 / 88
p0 1284 ± 0.9892
1330
1320
1310
1300
1290
1280
1270
1260
1250

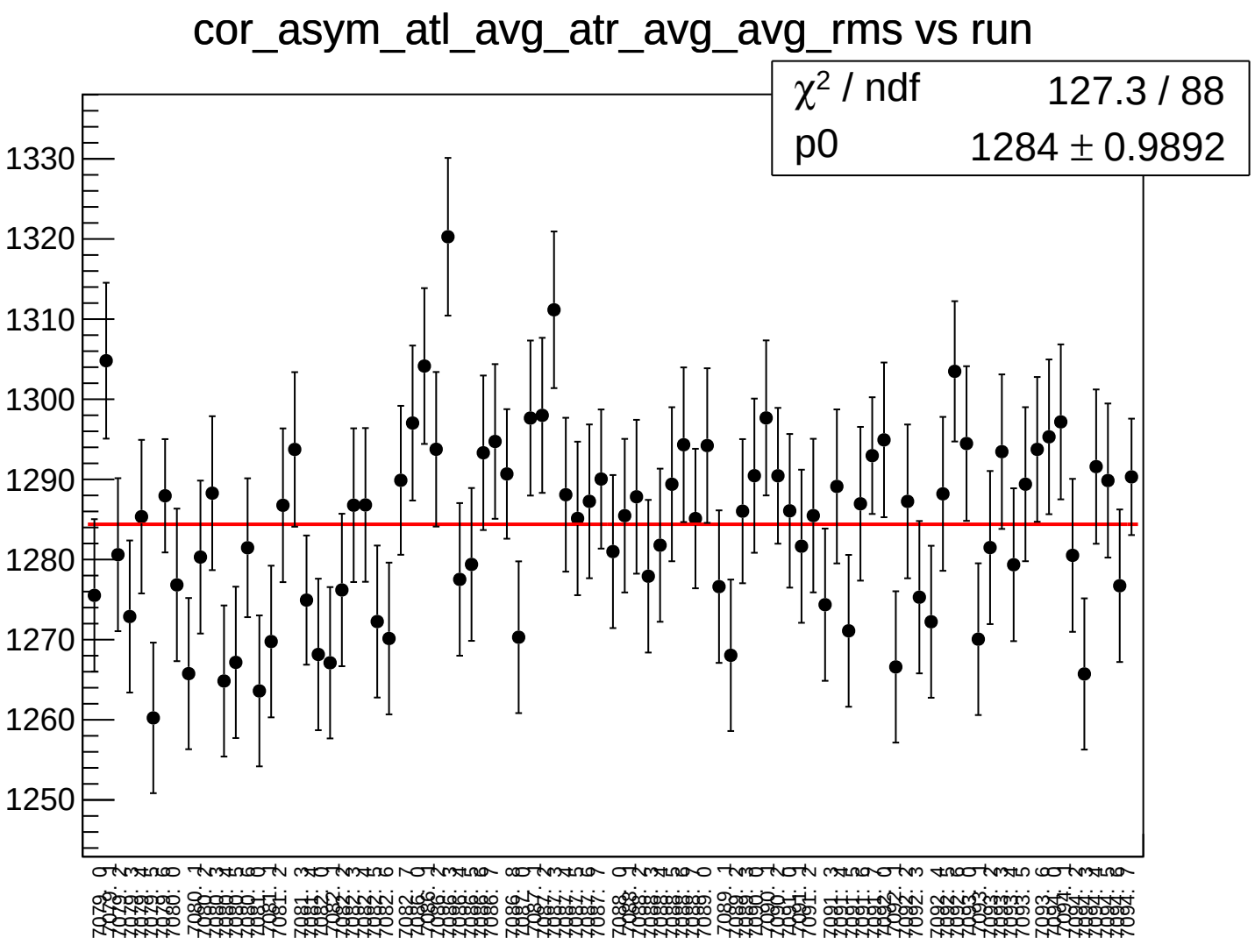

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 67.47 / 88
p0 −1454 ± 6402
pull
Entries 89
Mean −333.2
Std Dev 0

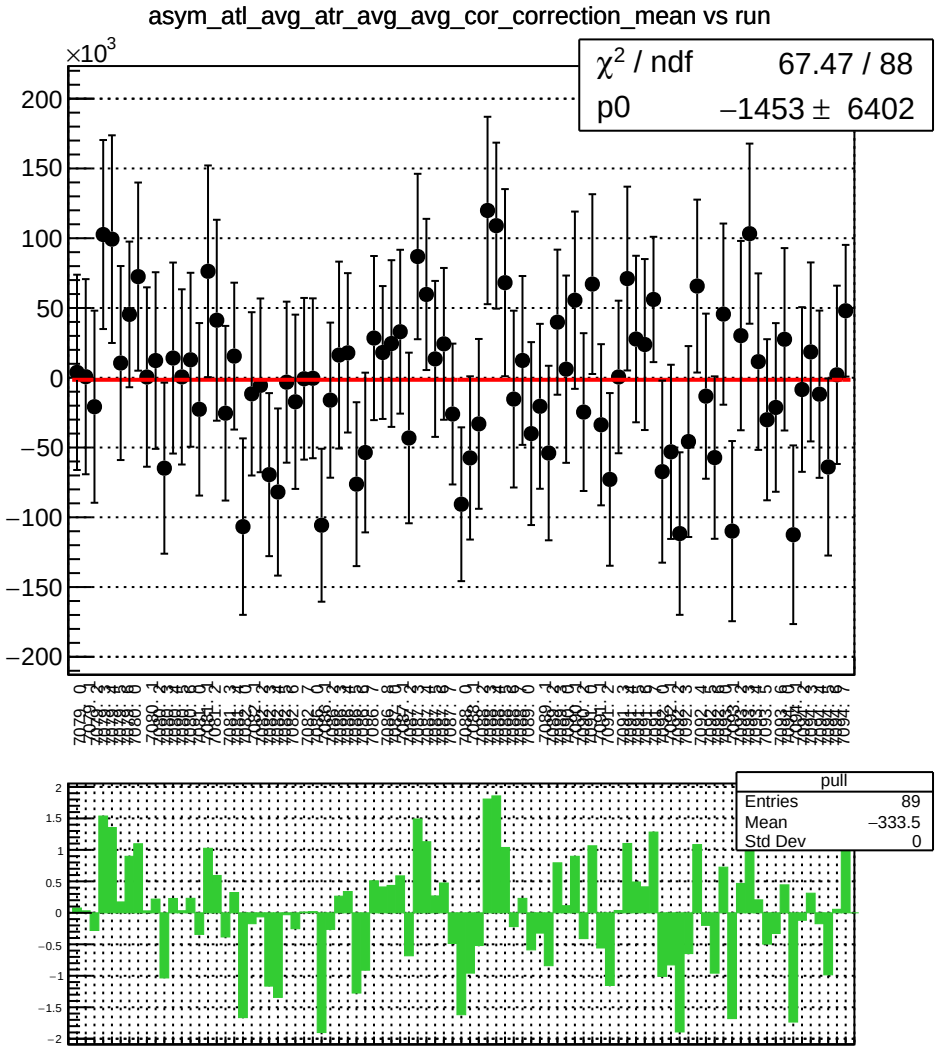

pull1D
Entries 89
Mean 0.004397
Std Dev 0.8707

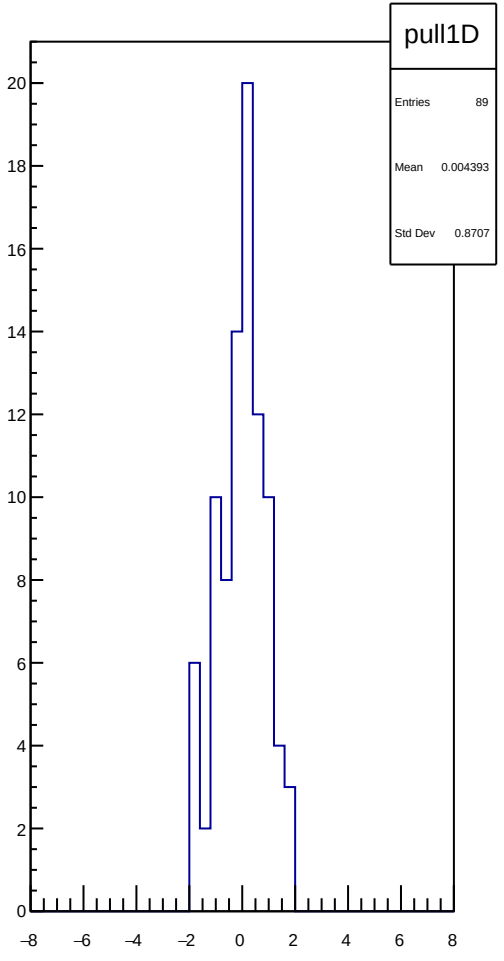

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 9157 / 88
p0 5862 ± 4.527
7000
6500
6000
5500
5000

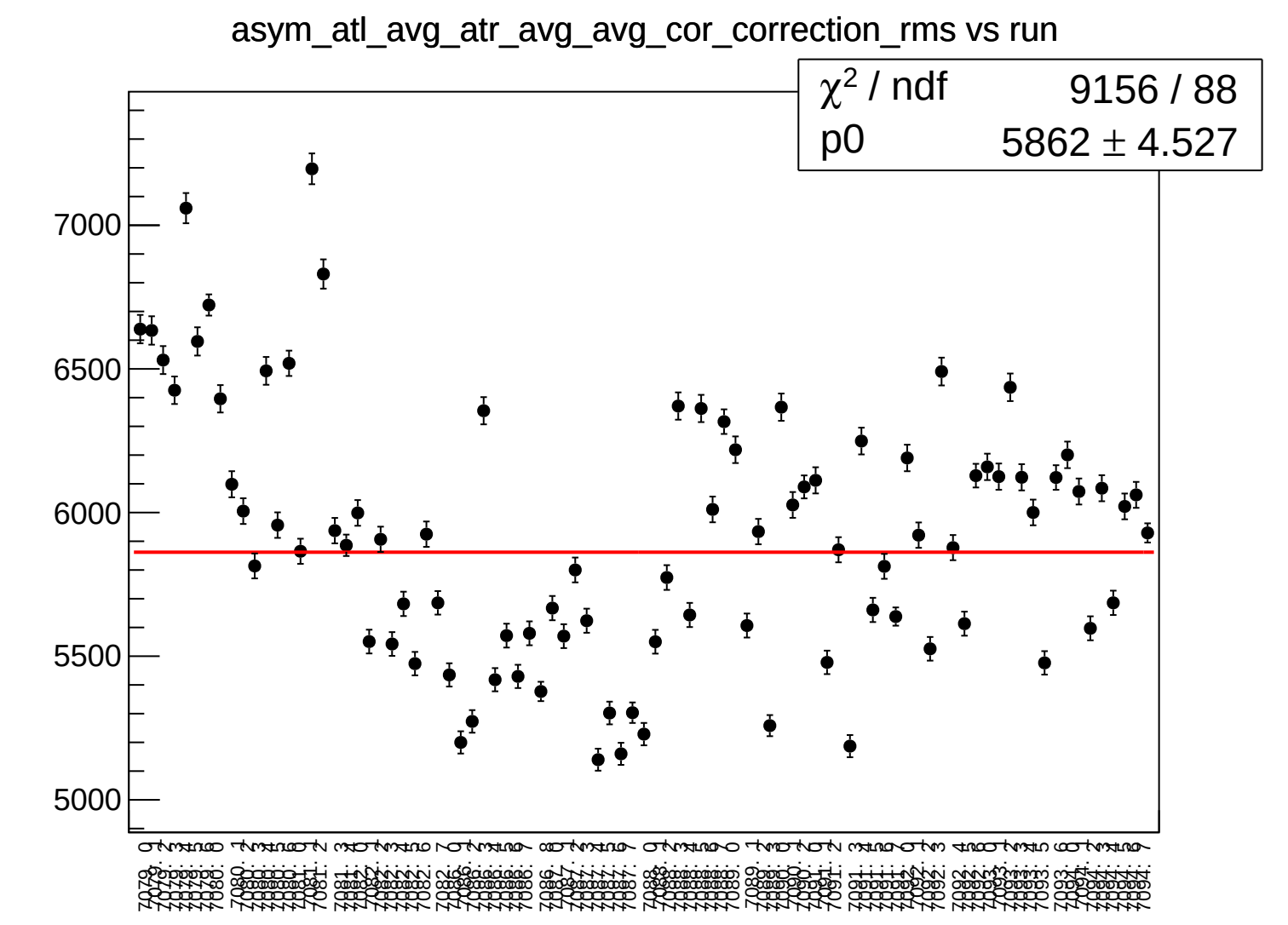

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.35 / 88
p0 736 ± 1399
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 11.94
Std Dev 5.686
2
1
0
−1
−2
−3

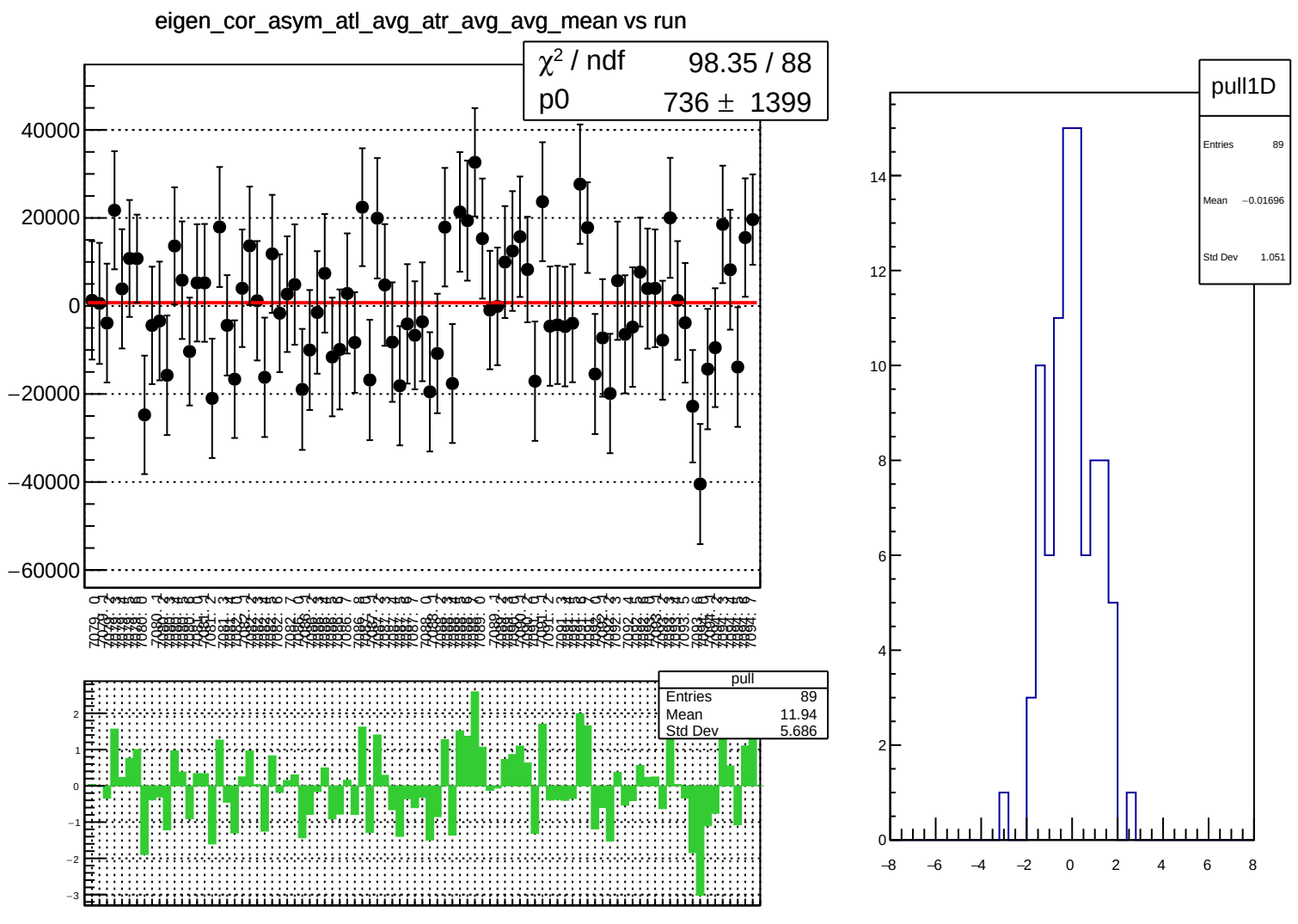

pull1D
Entries 89
Mean −0.01696
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

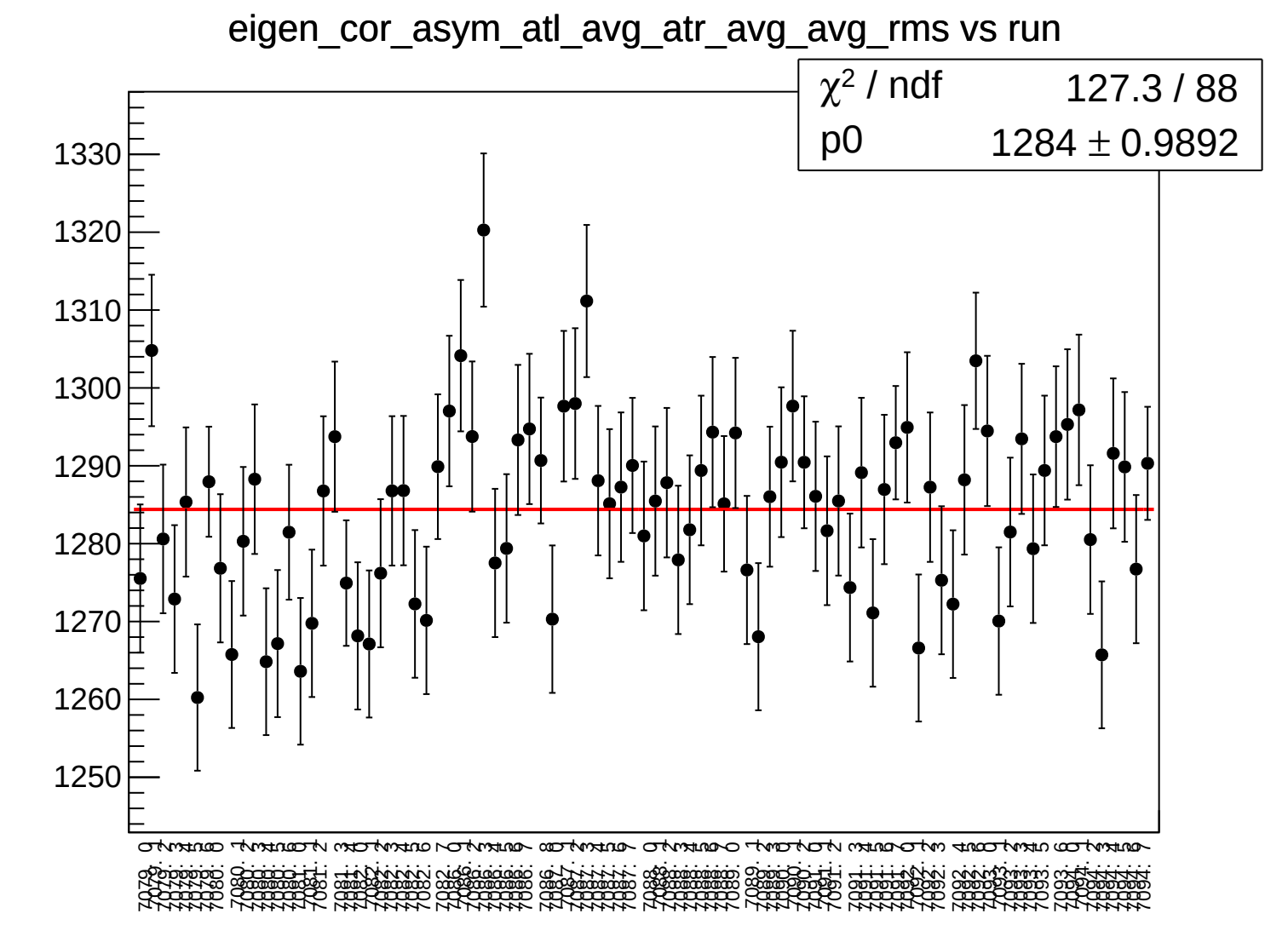

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 127.3 / 88
p0 1284 ± 0.9892
1330
1320
1310
1300
1290
1280
1270
1260
1250

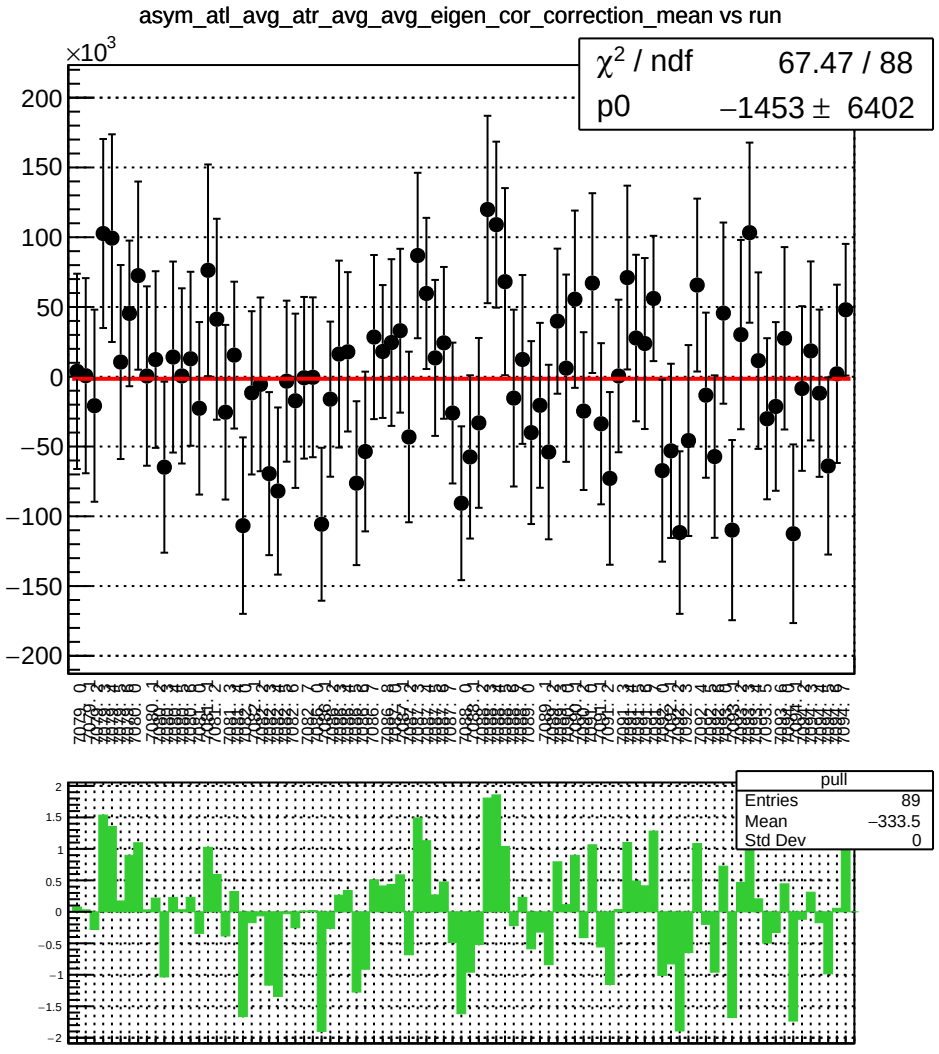

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 67.47 / 88
p0 −1453 ± 6402
pull
Entries 89
Mean −333.5
Std Dev 0

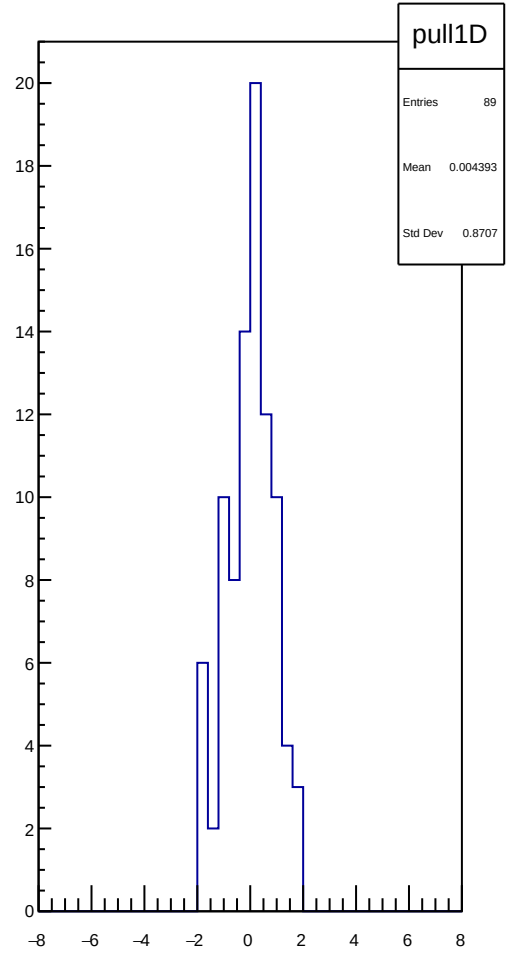

pull1D
Entries 89
Mean 0.004393
Std Dev 0.8707

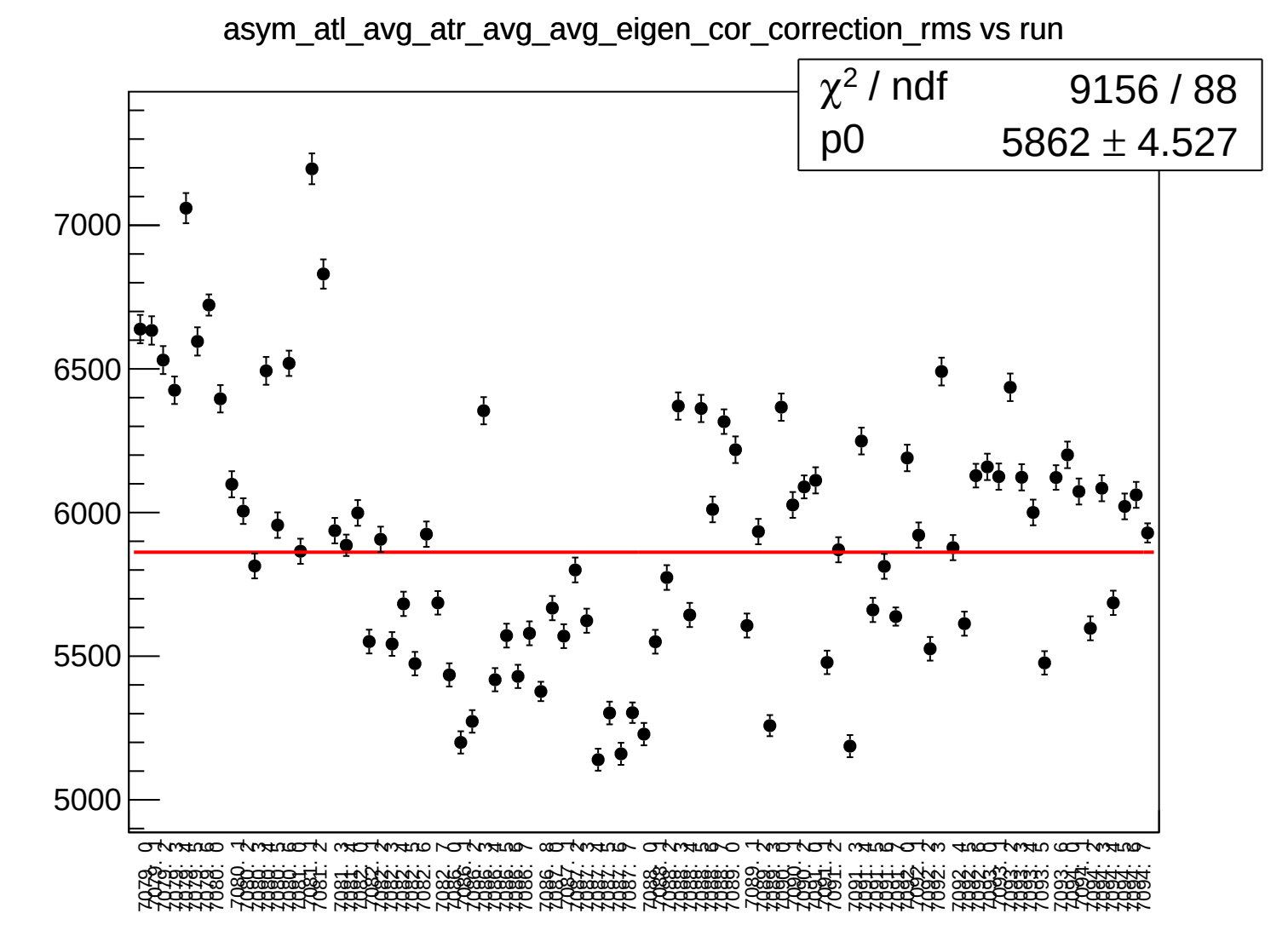

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 9156 / 88
p0 5862 ± 4.527
7000
6500
6000
5500
5000

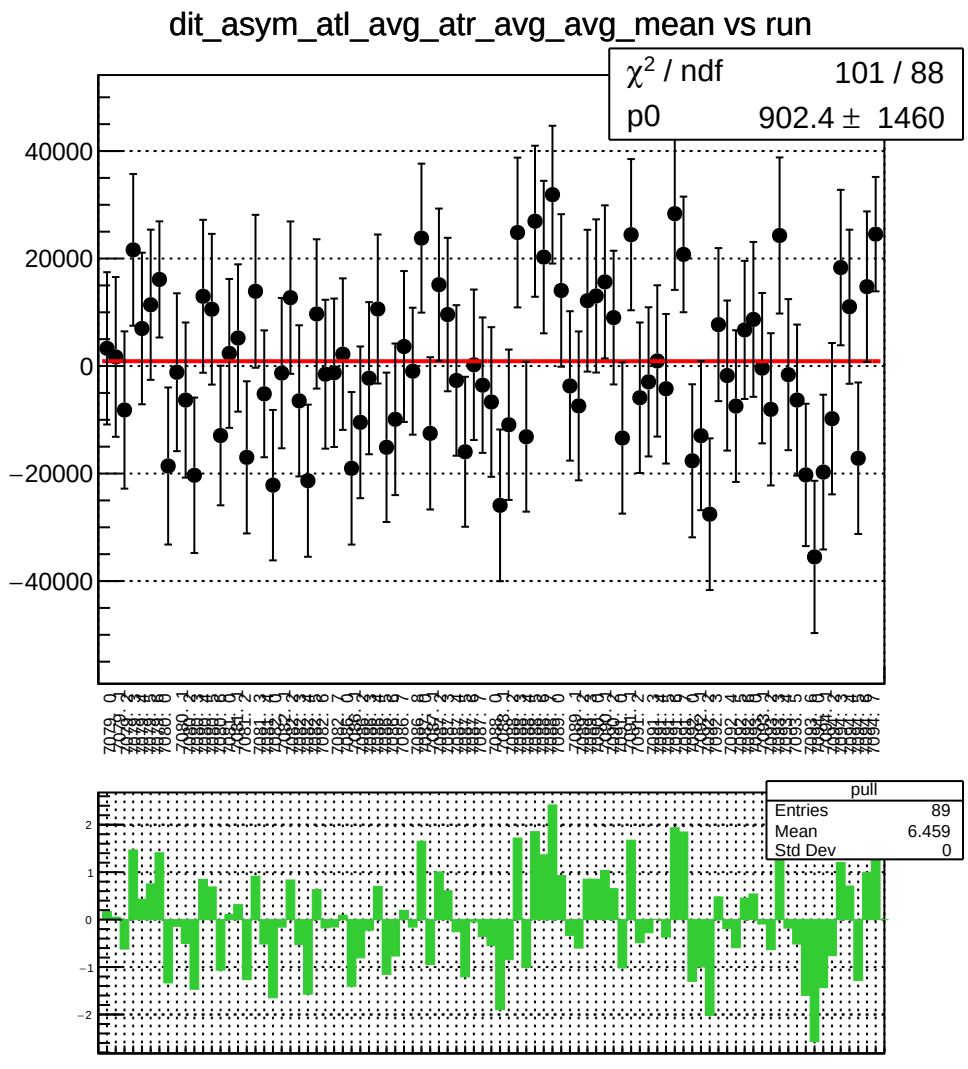

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.35 / 88
p0 736 ± 1399
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 11.94
Std Dev 5.686
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01696
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

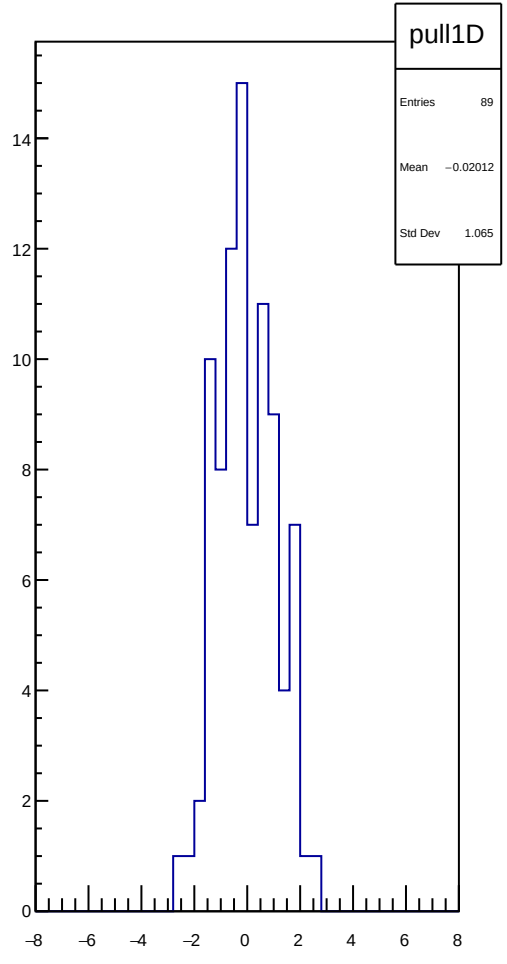

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 127.3 / 88
p0 1284 ± 0.9892
1330
1320
1310
1300
1290
1280
1270
1260
1250

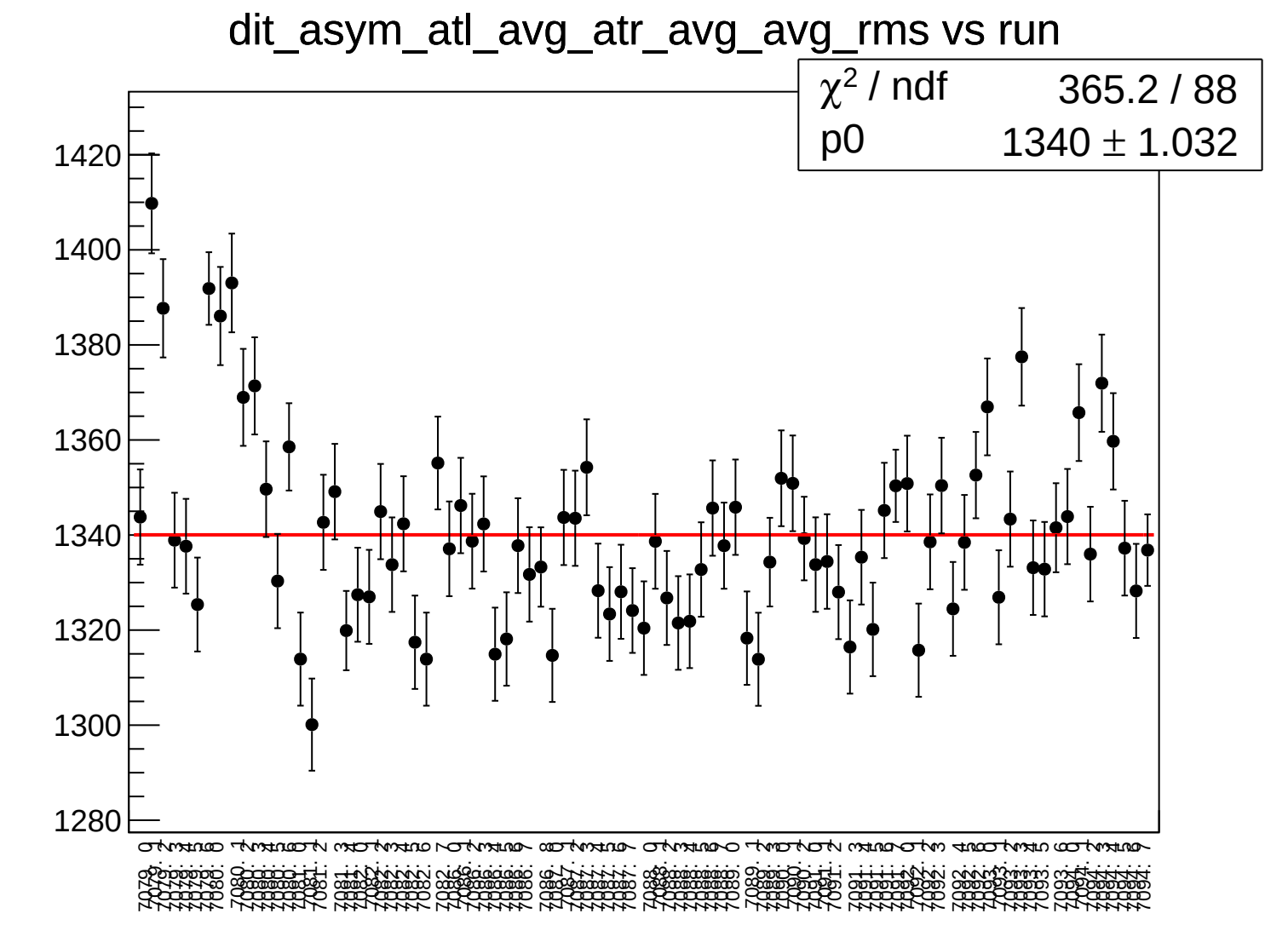

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.47 / 88
p0 −1453 ± 6402
pull
Entries 89
Mean −333.5
Std Dev 0

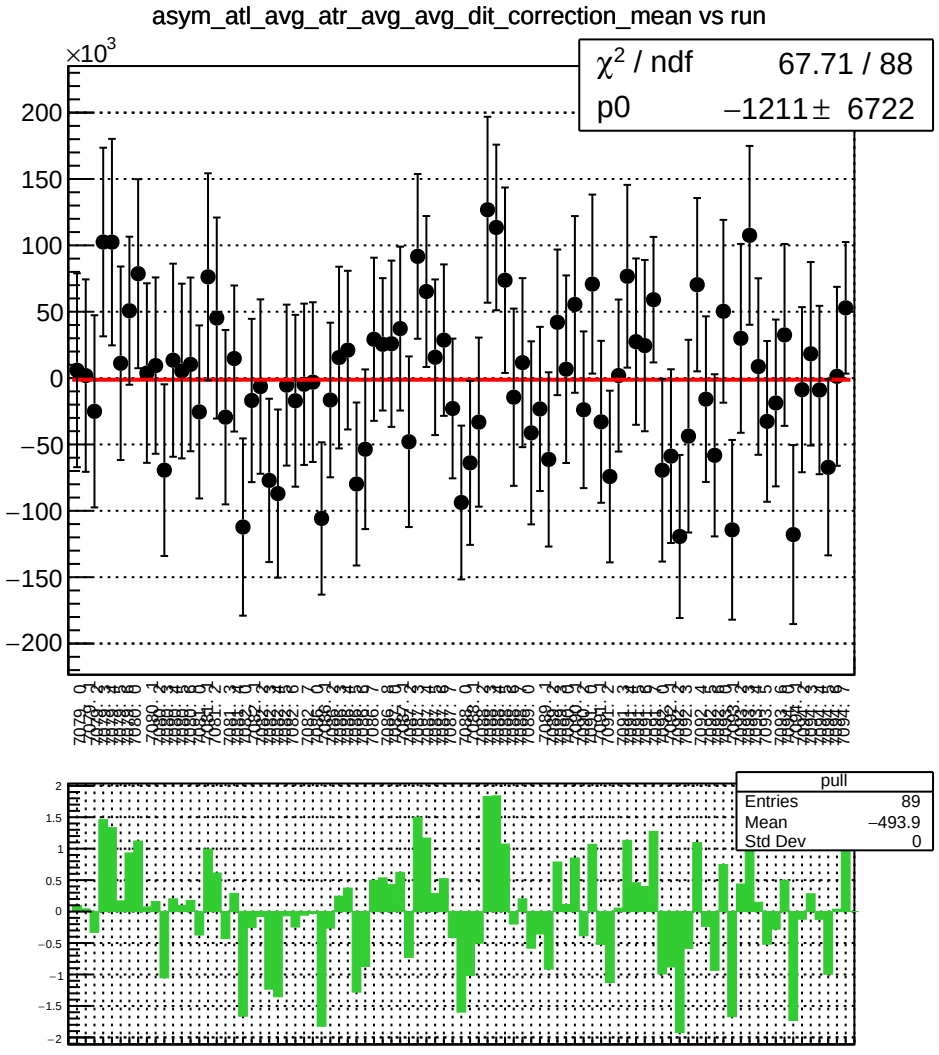

pull1D
Entries 89
Mean 0.004393
Std Dev 0.8707

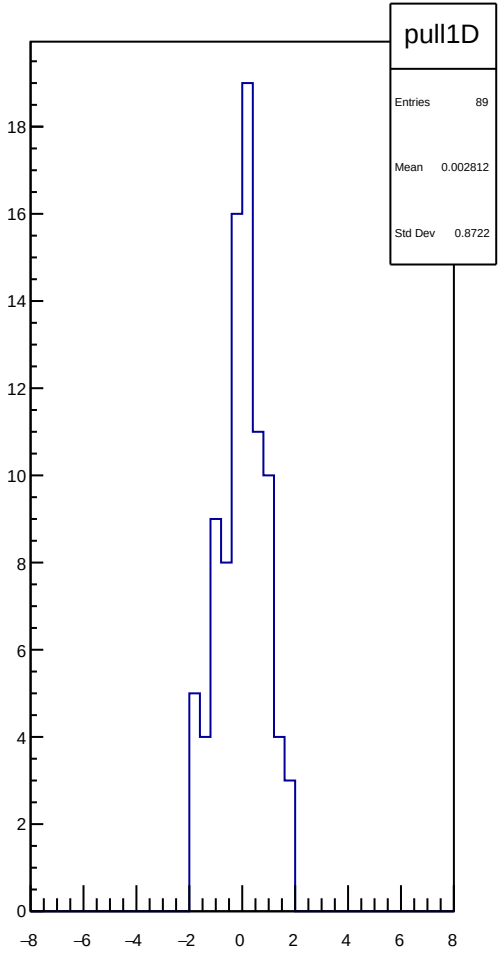

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 9156 / 88
p0 5862 ± 4.527
7000
6500
6000
5500
5000

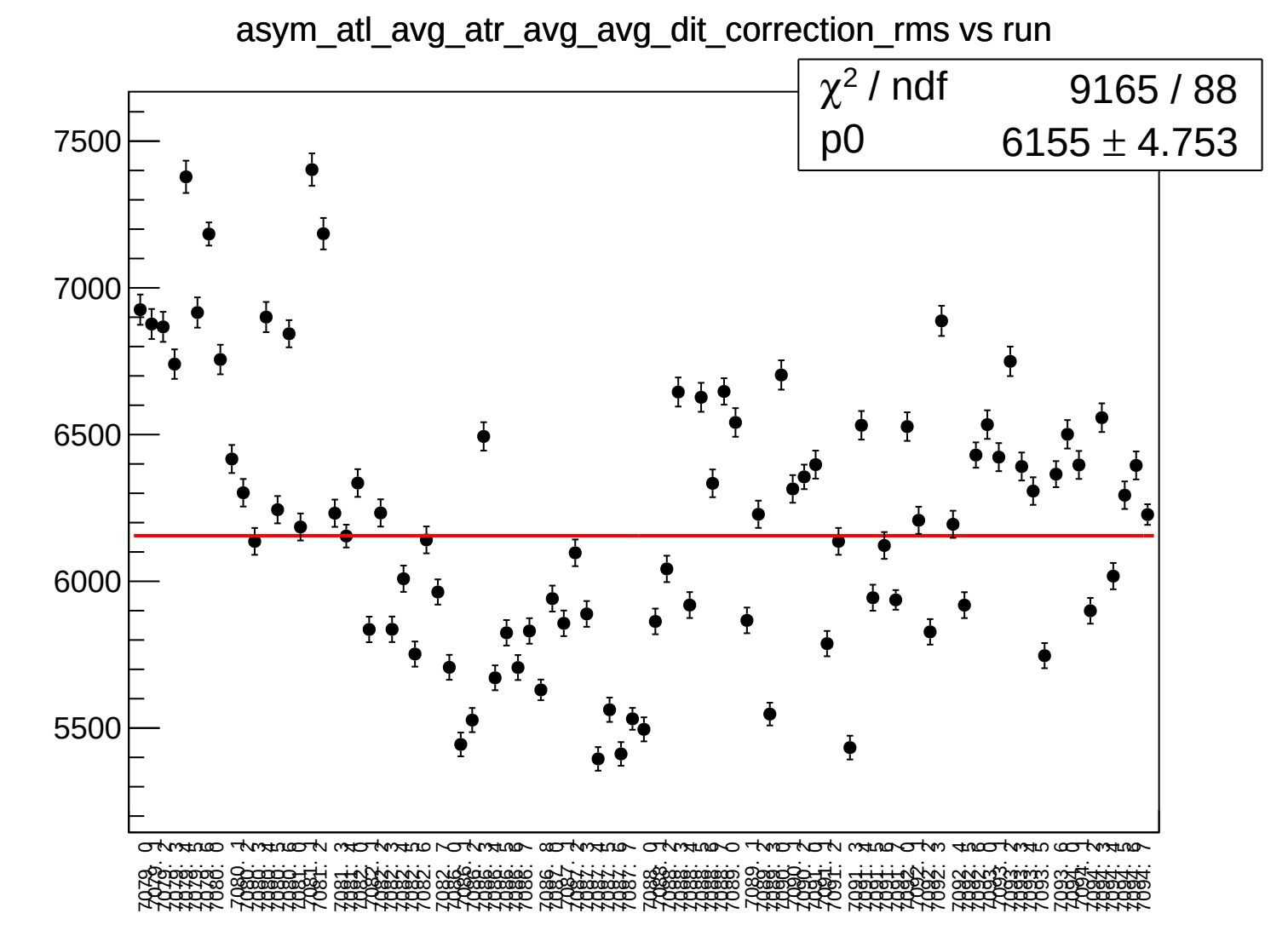

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 101 / 88
p0 902.4 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 6.459
Std Dev 0
2
1
0
−1
−2

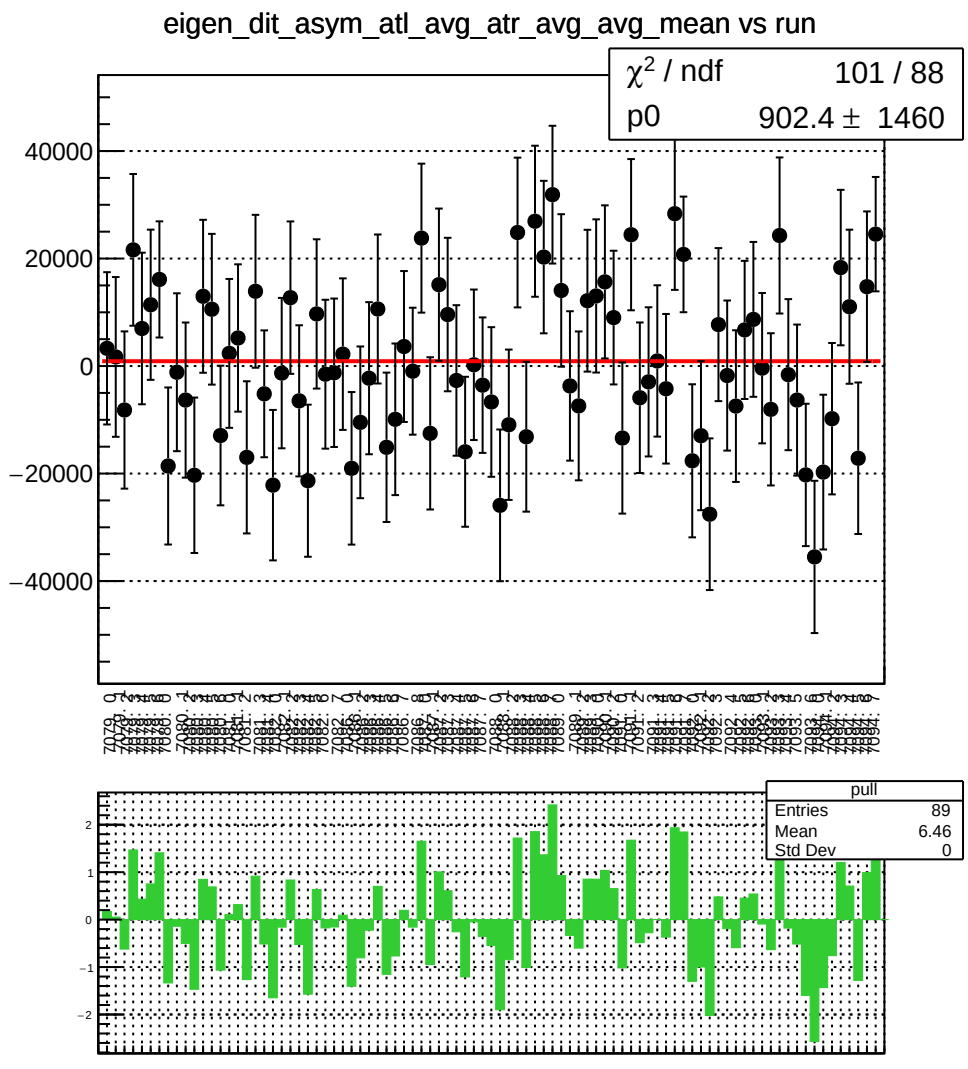

pull1D
Entries 89
Mean −0.02012
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

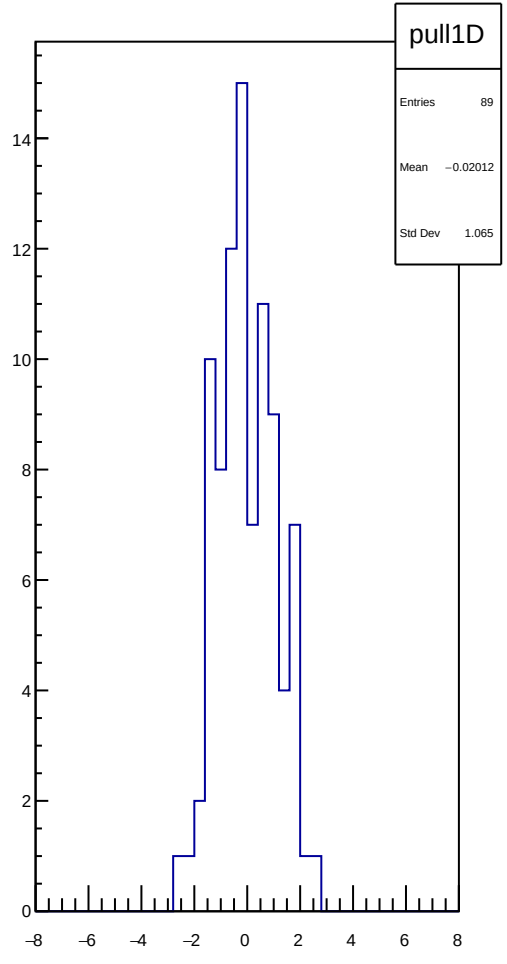

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 365.2 / 88
p0 1340 ± 1.032
1420
1400
1380
1360
1340
1320
1300
1280

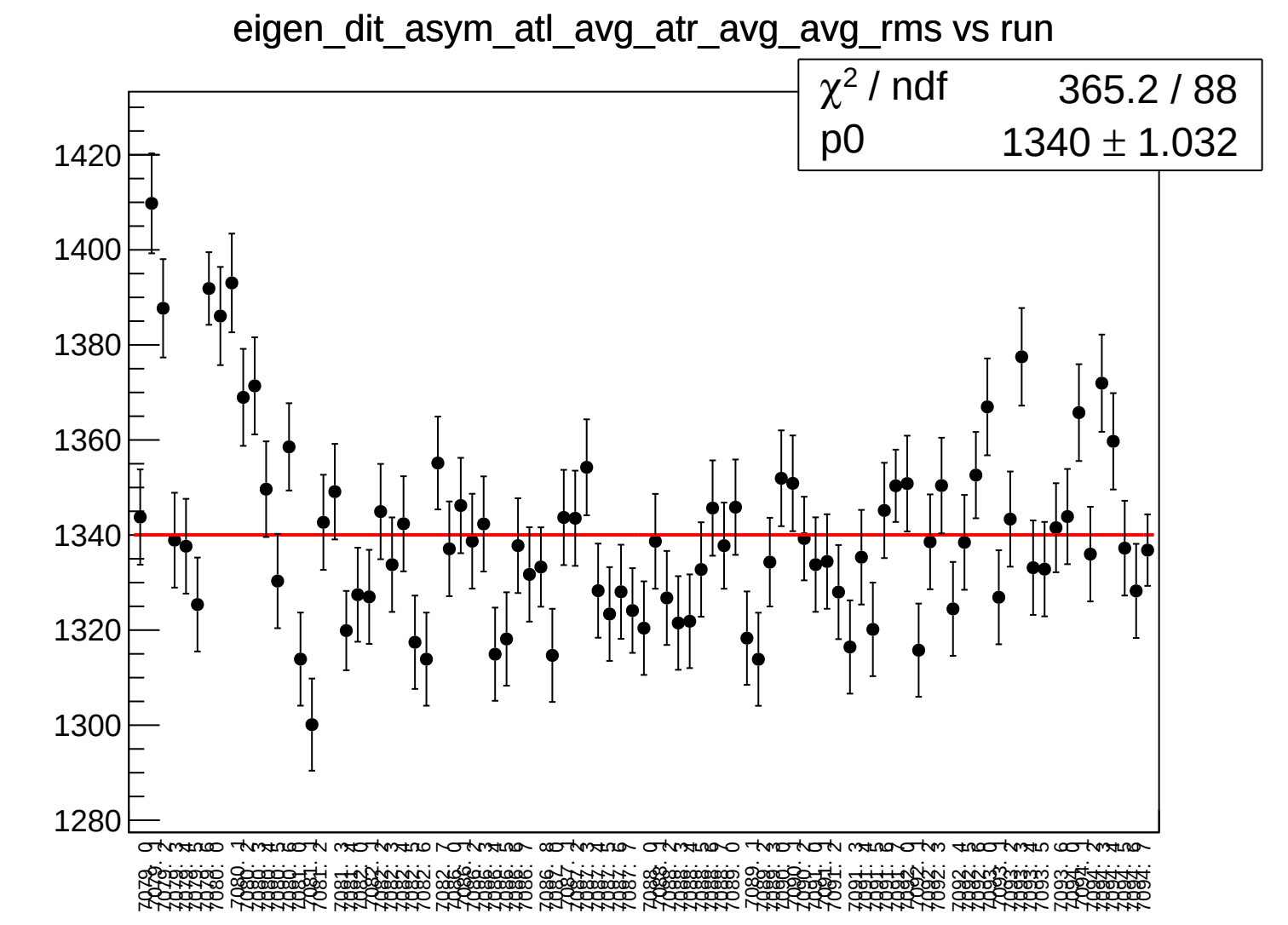

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 67.71 / 88
p0 −1211 ± 6722
pull
Entries 89
Mean −493.9
Std Dev 0

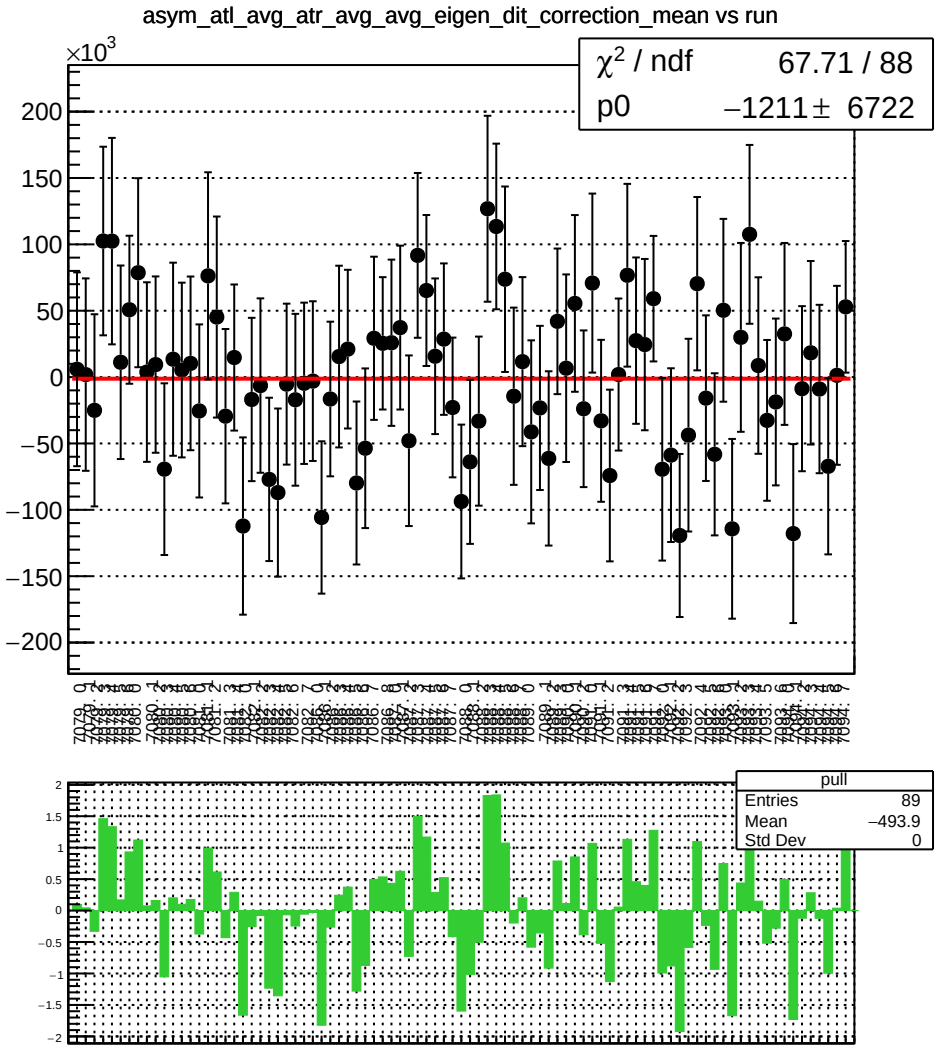

pull1D
Entries 89
Mean 0.002812
Std Dev 0.8722

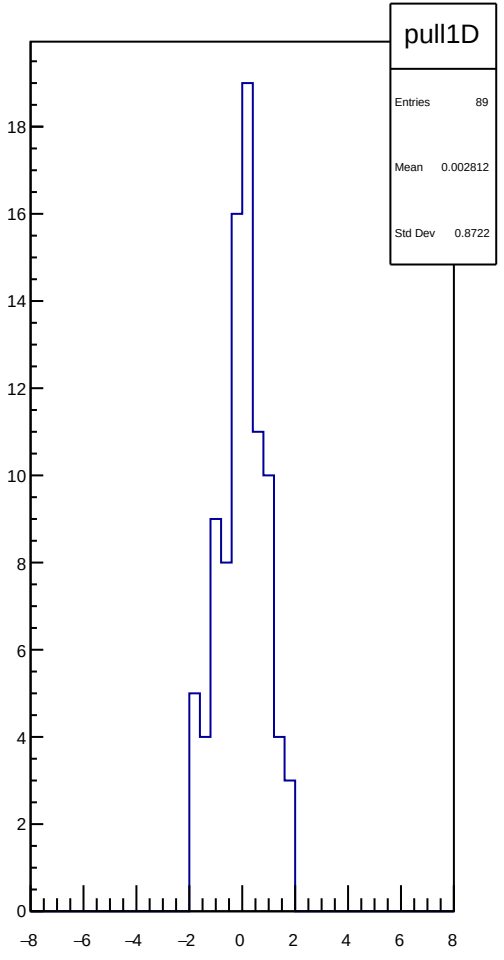

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 9165 / 88
p0 6155 ± 4.753
7500
7000
6500
6000
5500

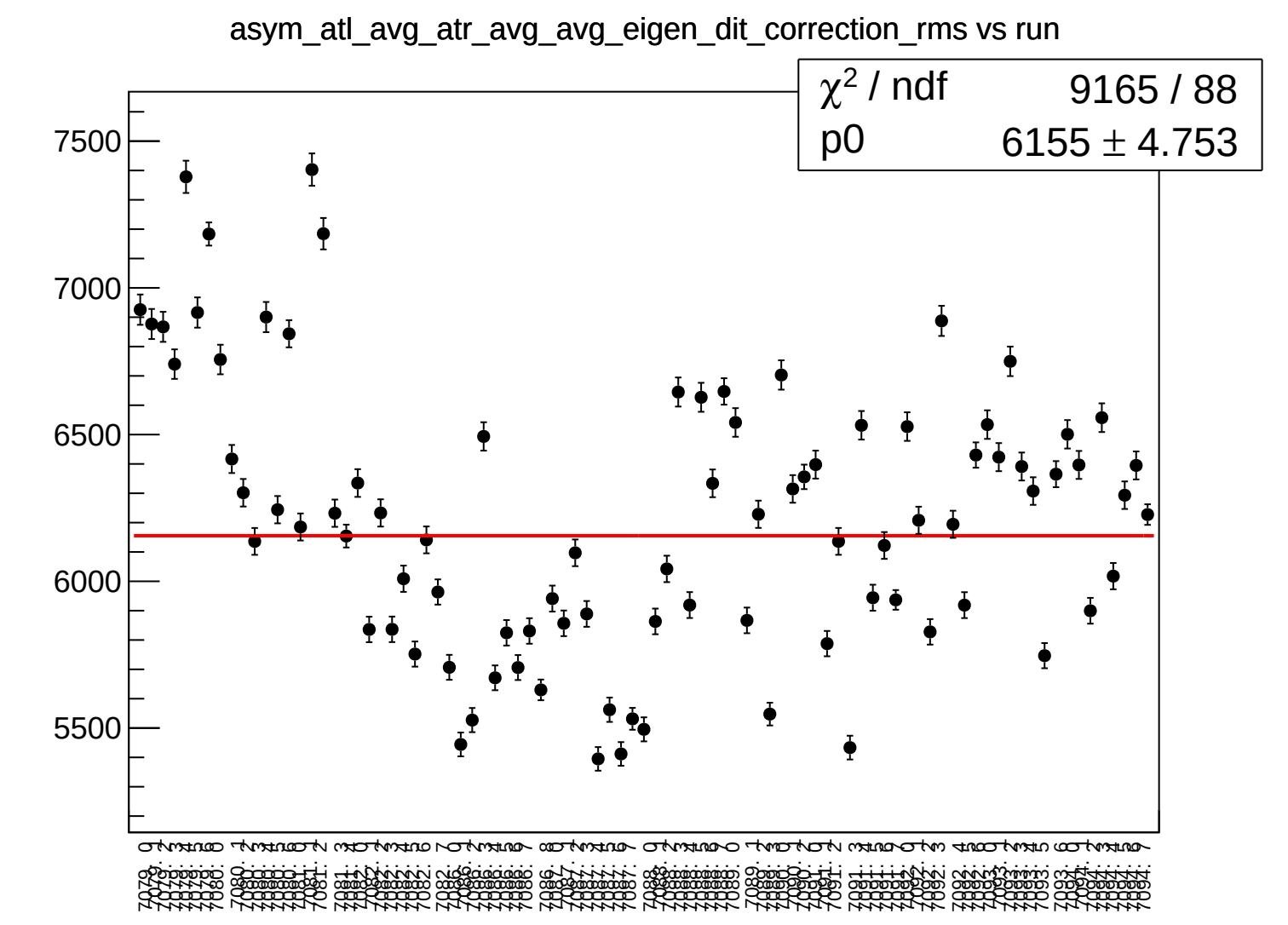

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 101 / 88
p0 902.4 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 6.46
Std Dev 0
2
1
0
−1
−2

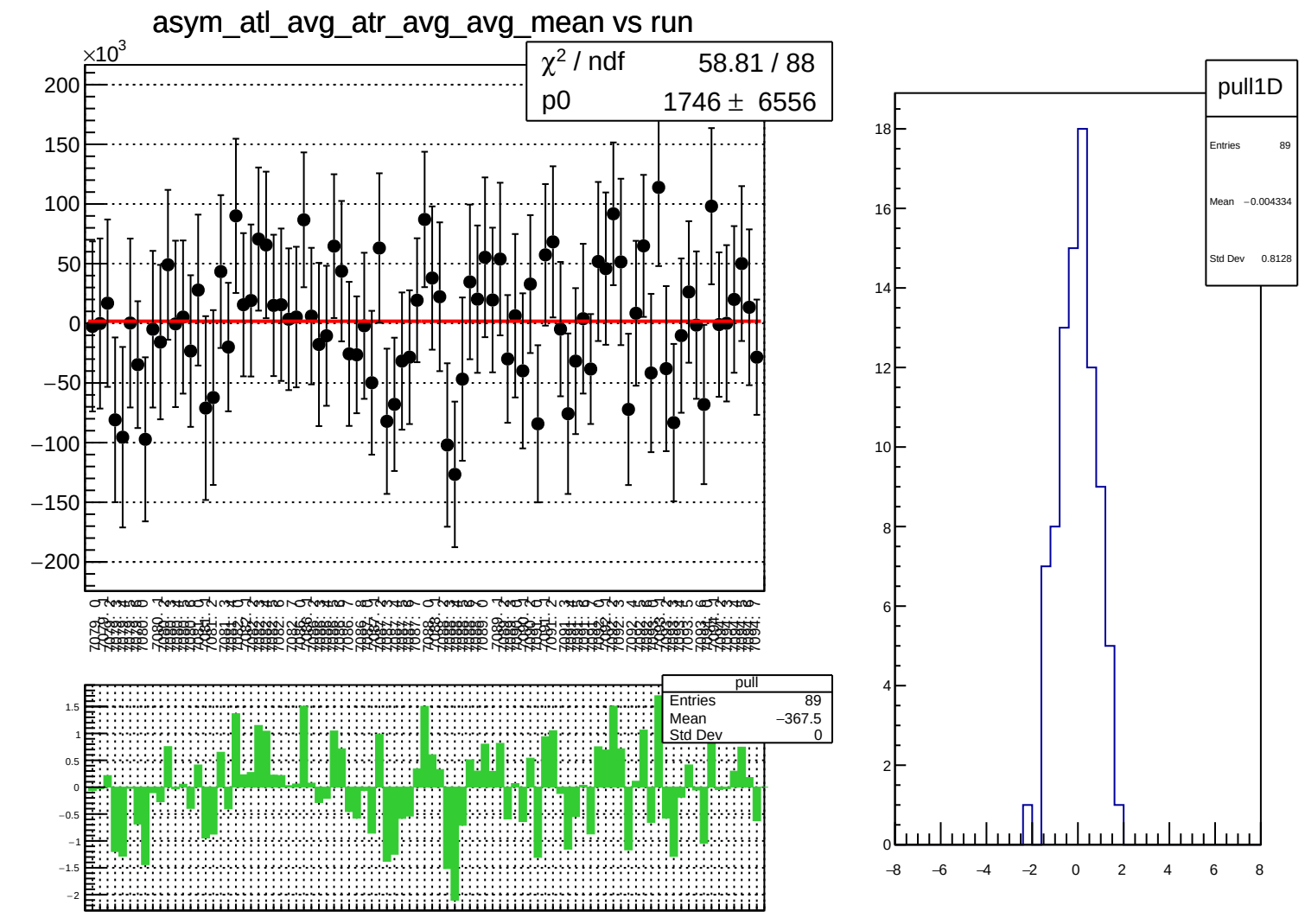

pull1D
Entries 89
Mean −0.02012
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

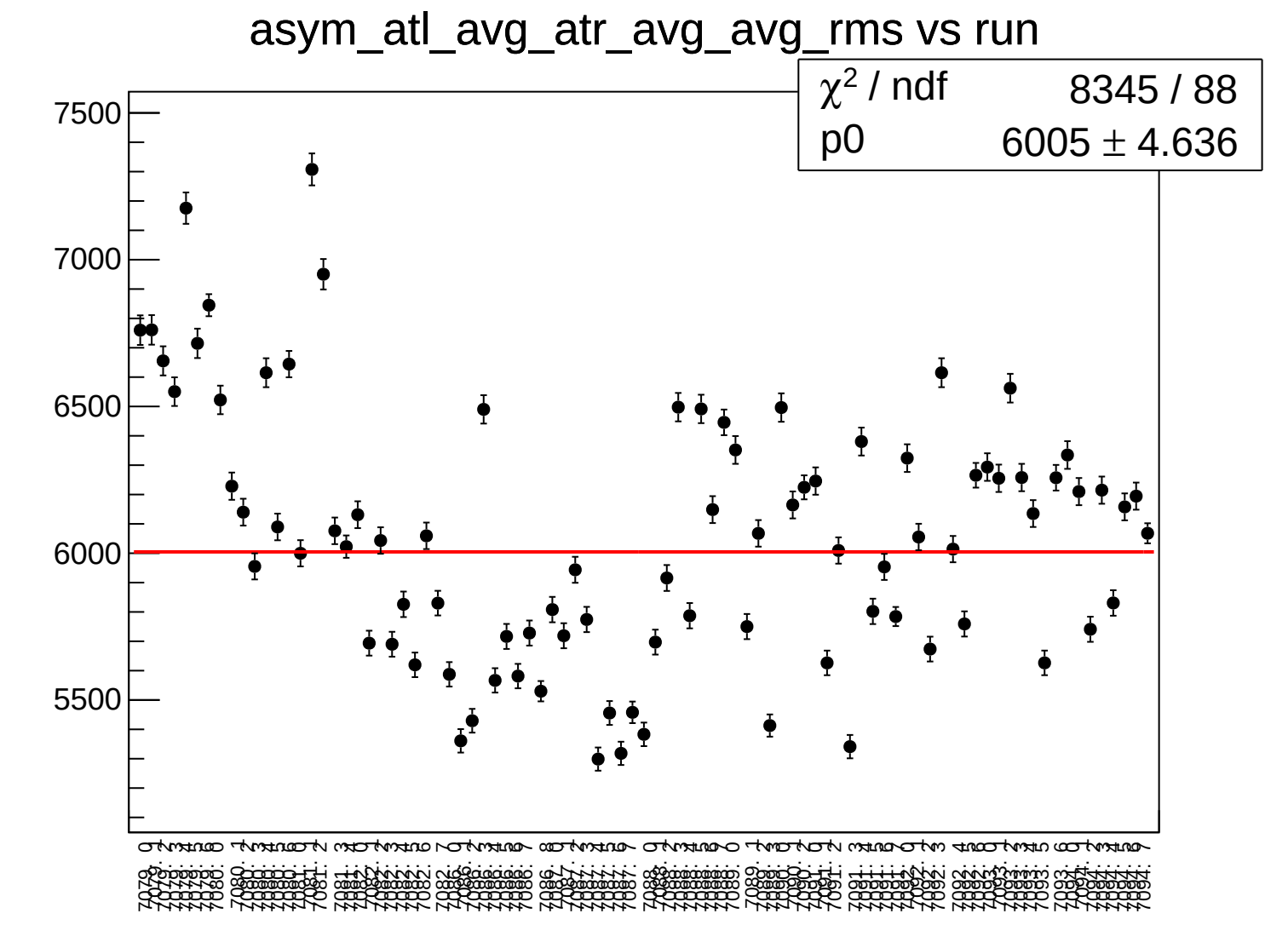

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 365.2 / 88
p0 1340 ± 1.032
1420
1400
1380
1360
1340
1320
1300
1280

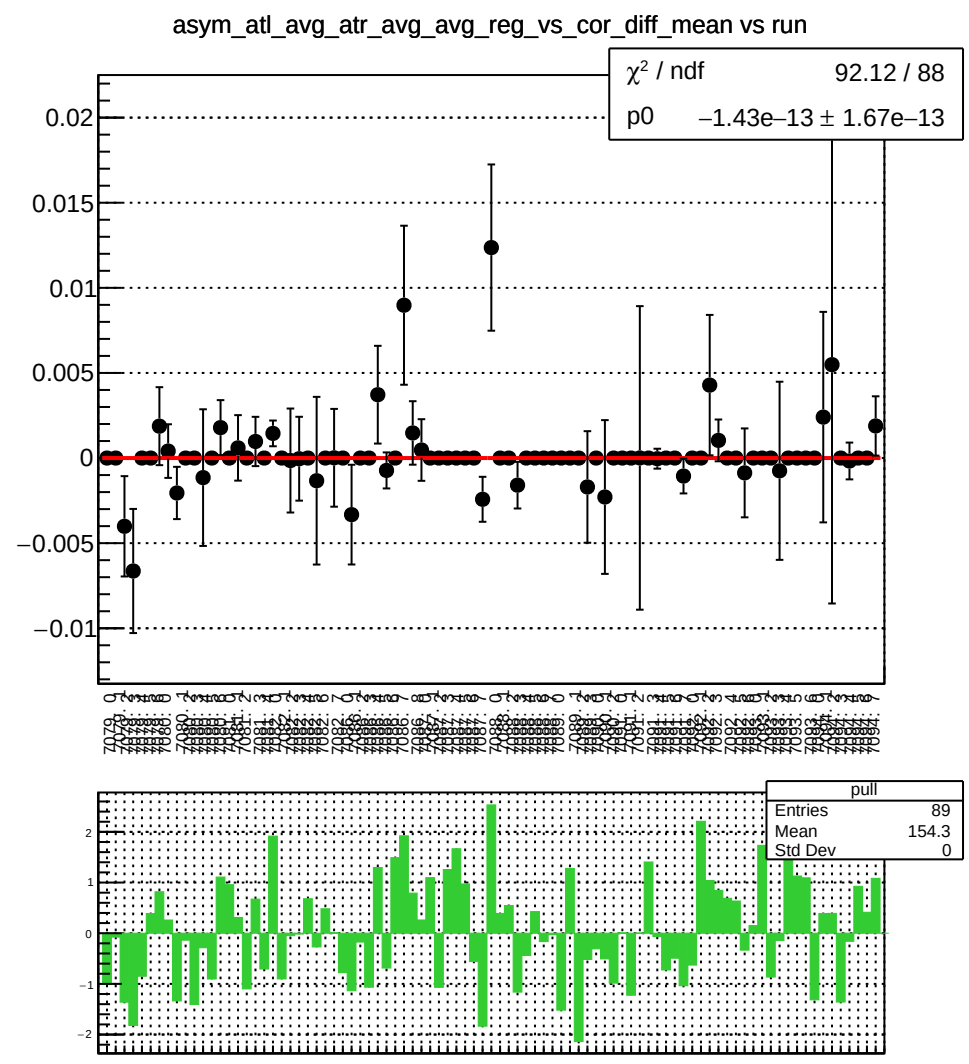

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.71 / 88
p0 −1211 ± 6722
pull
Entries 89
Mean −493.9
Std Dev 0

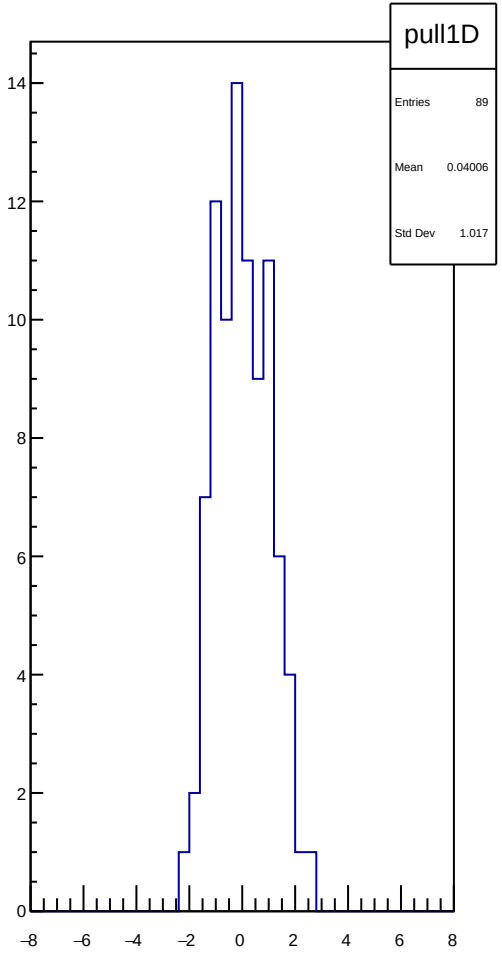

pull1D
Entries 89
Mean 0.002812
Std Dev 0.8722

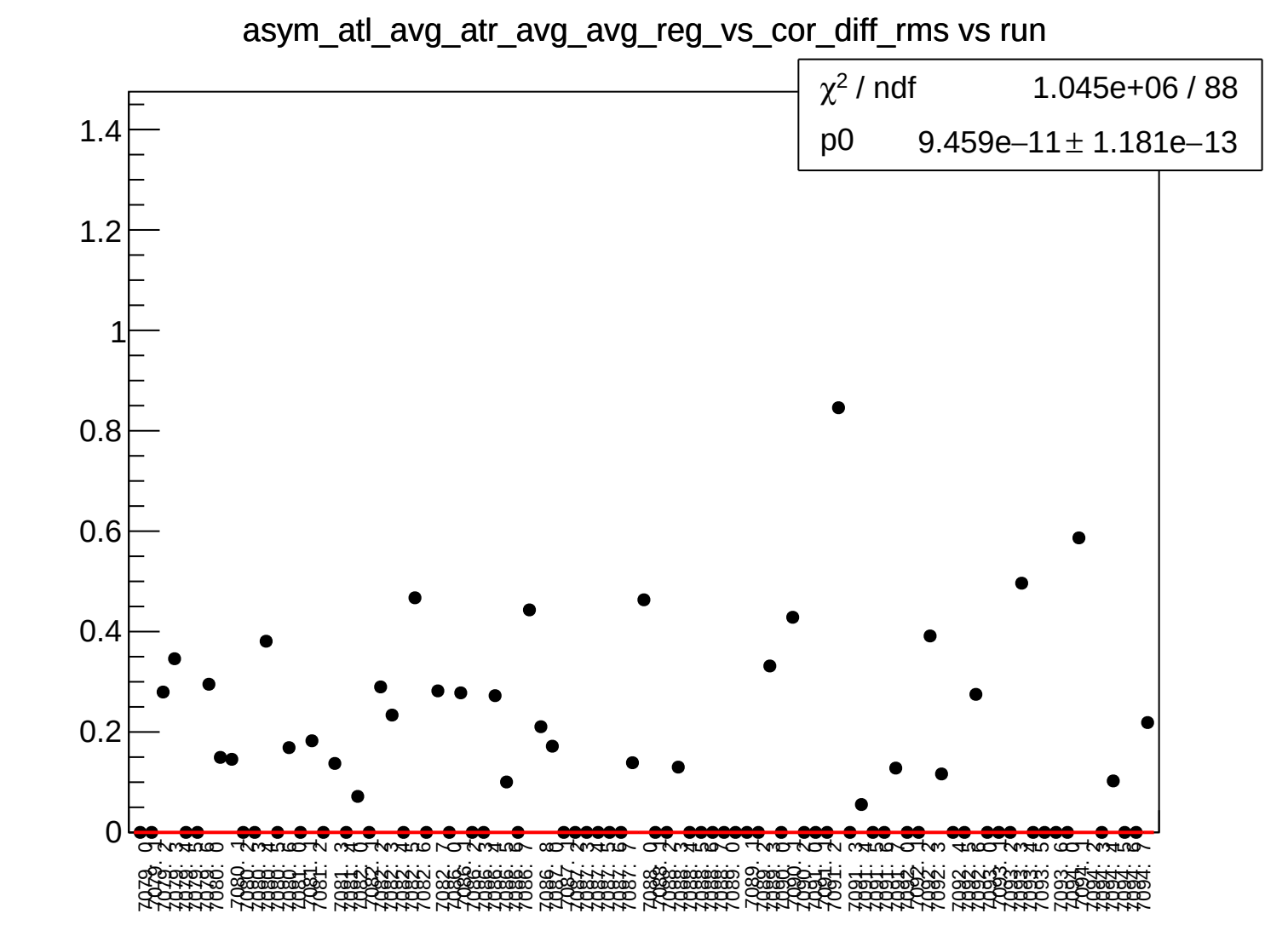

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 9165 / 88
p0 6155 ± 4.753
7500
7000
6500
6000
5500

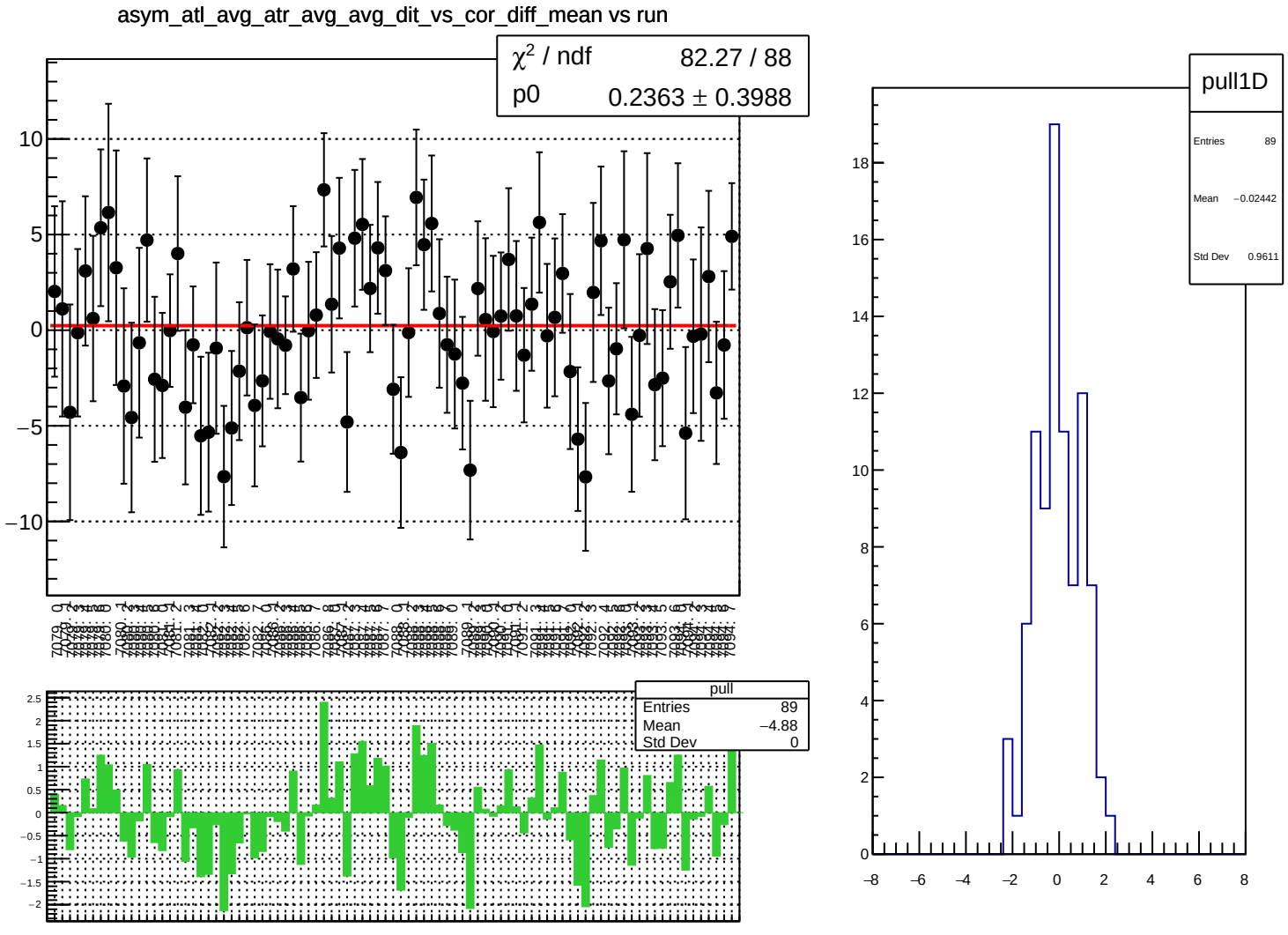

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 58.81 / 88
p0 1746 ± 6556
pull
Entries 89
Mean −367.5
Std Dev 0
pull1D
Entries 89
Mean −0.004334
Std Dev 0.8128

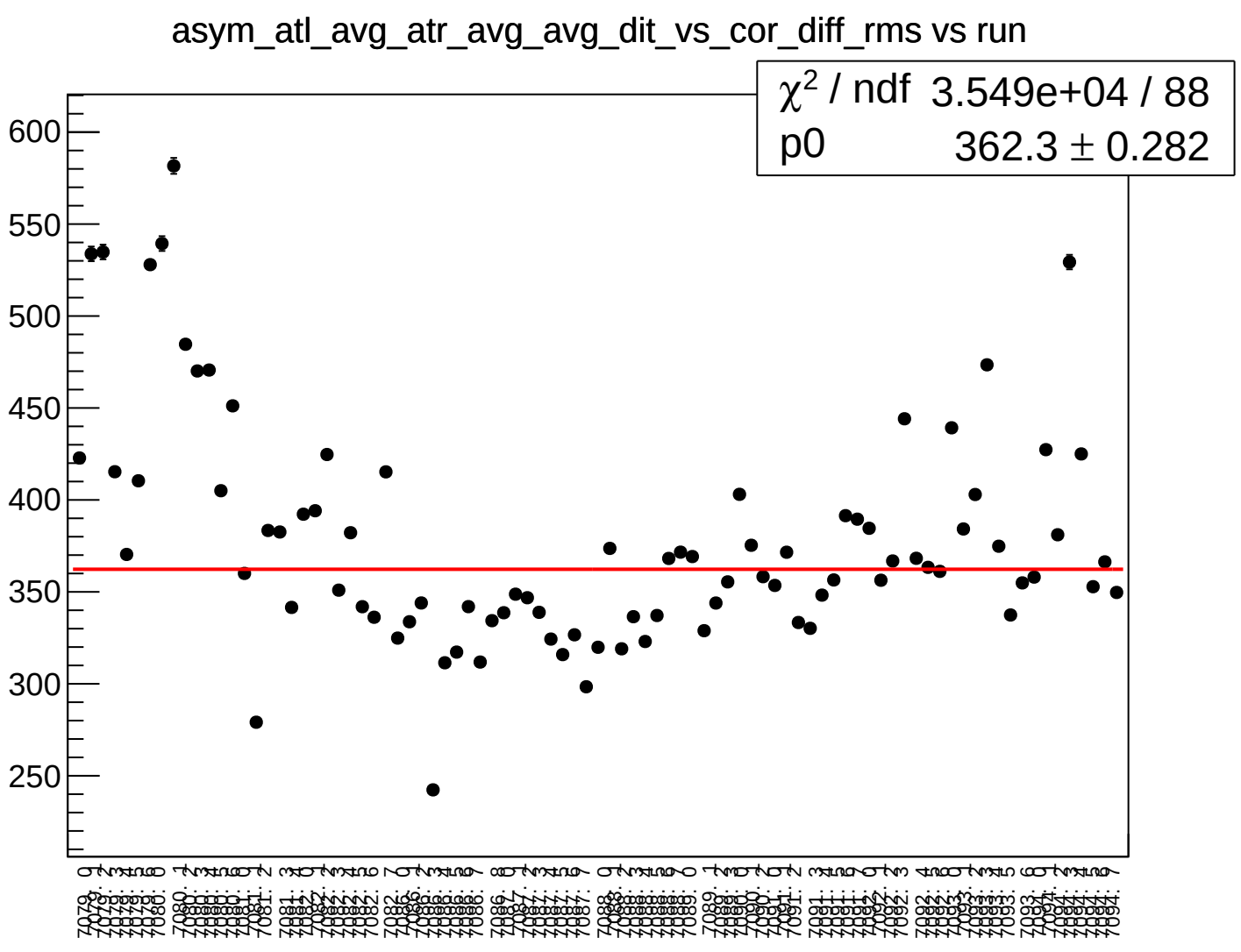

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 8345 / 88
p0 6005 ± 4.636
7500
7000
6500
6000
5500

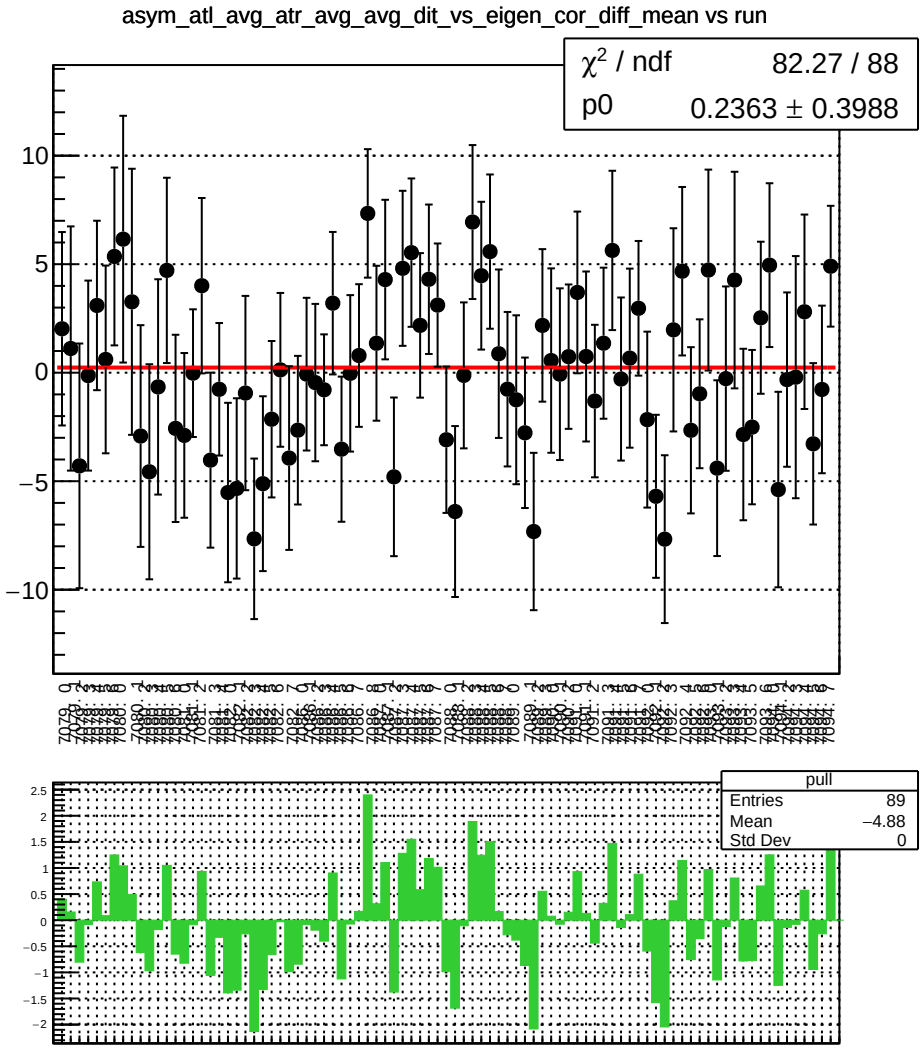

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.12 / 88
p0 −1.43e−13 ± 1.67e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 154.3
Std Dev 0
2
1
0
−1
−2

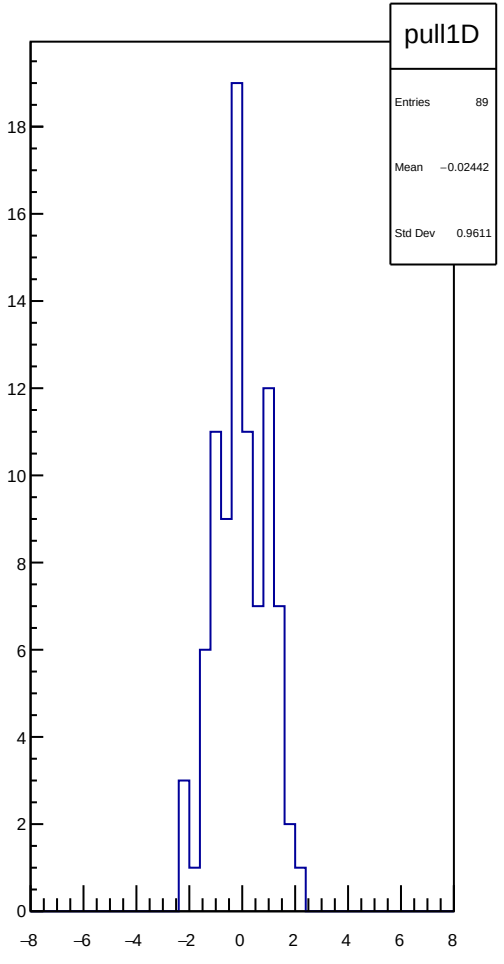

pull1D
Entries 89
Mean 0.04006
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

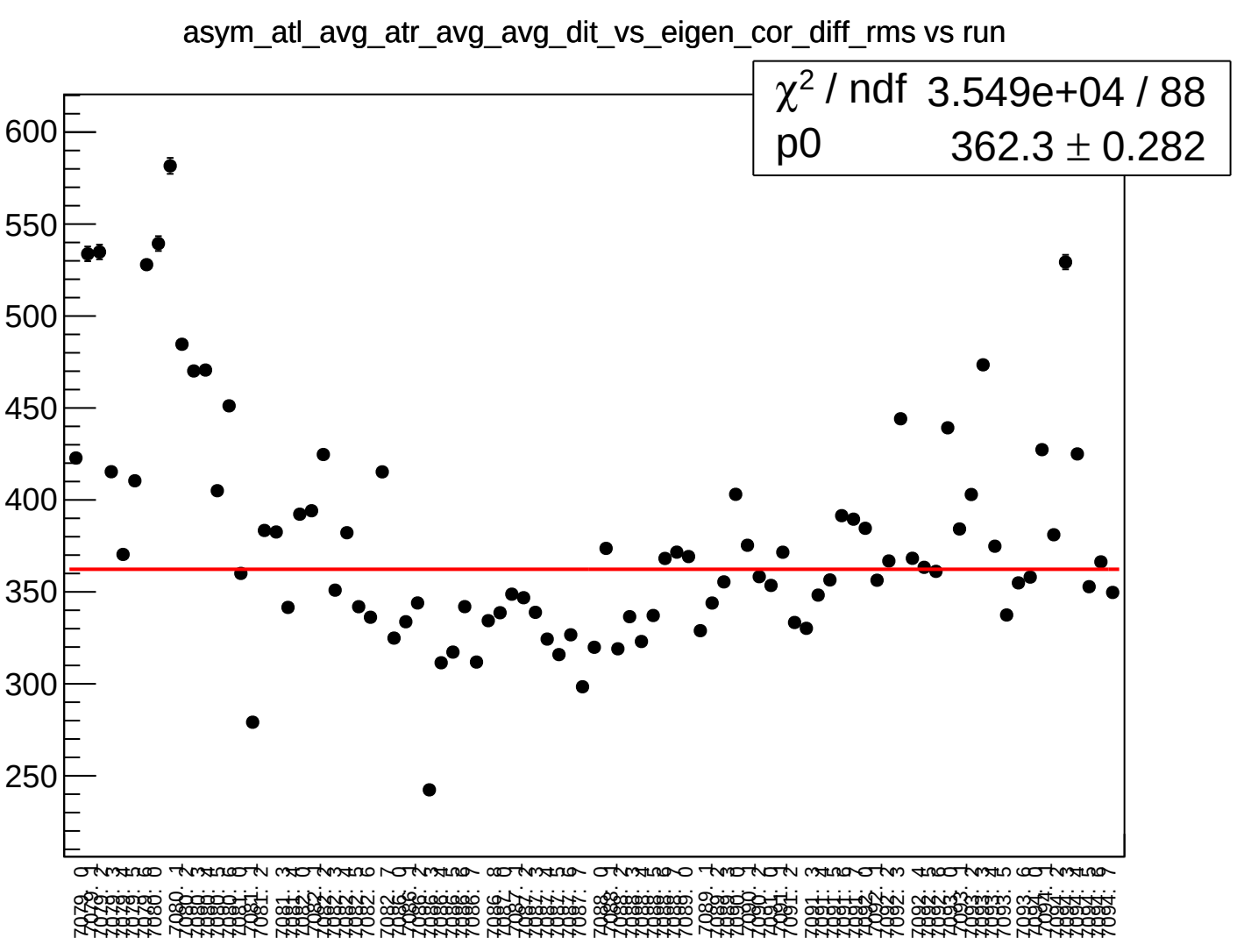

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 88
p0 9.459e−11 ± 1.181e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

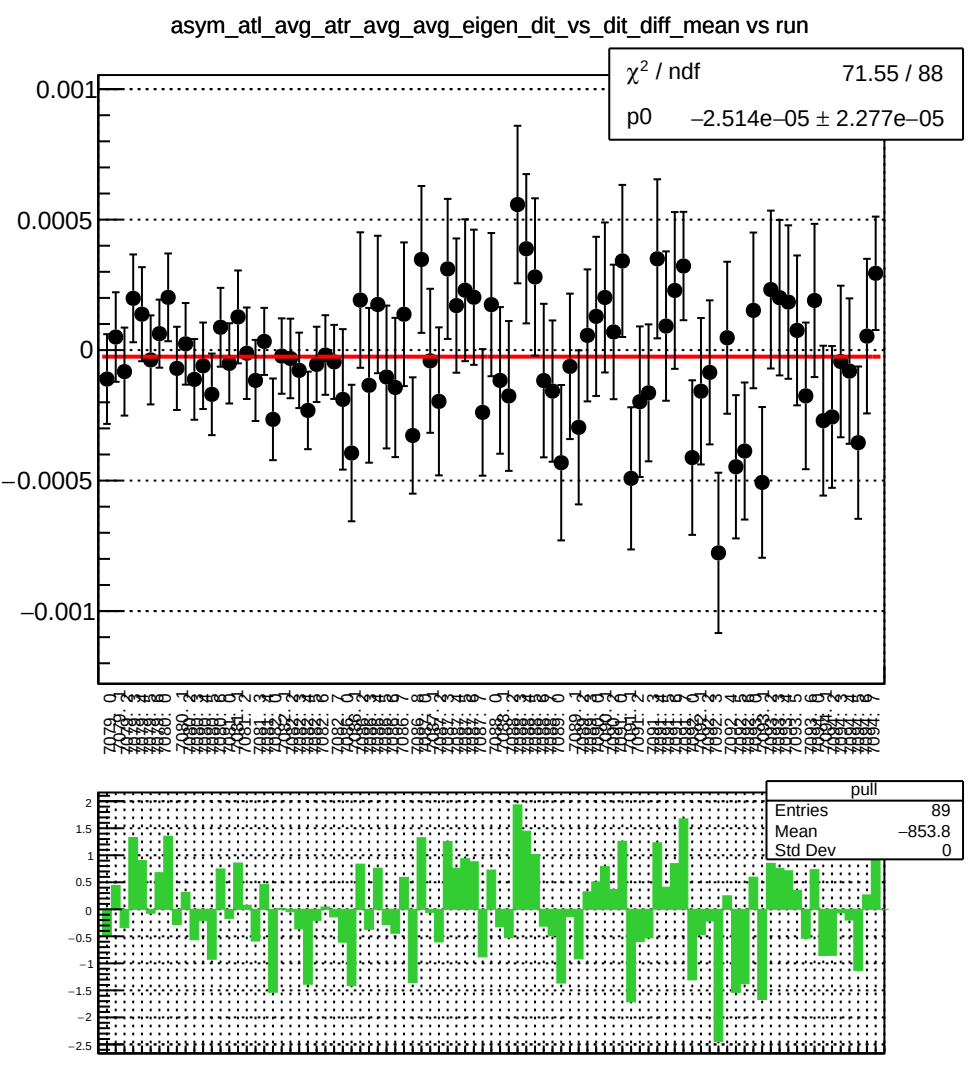

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.27 / 88
p0 0.2363 ± 0.3988
10
5
0
−5
−10
pull
Entries 89
Mean −4.88
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.02442
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

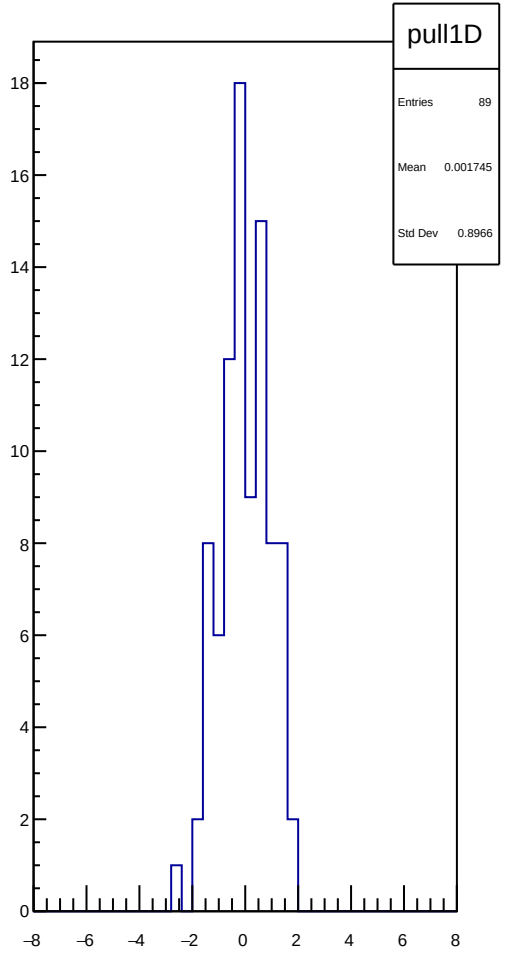

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.549e+04 / 88
p0 362.3 ± 0.282
600
550
500
450
400
350
300
250

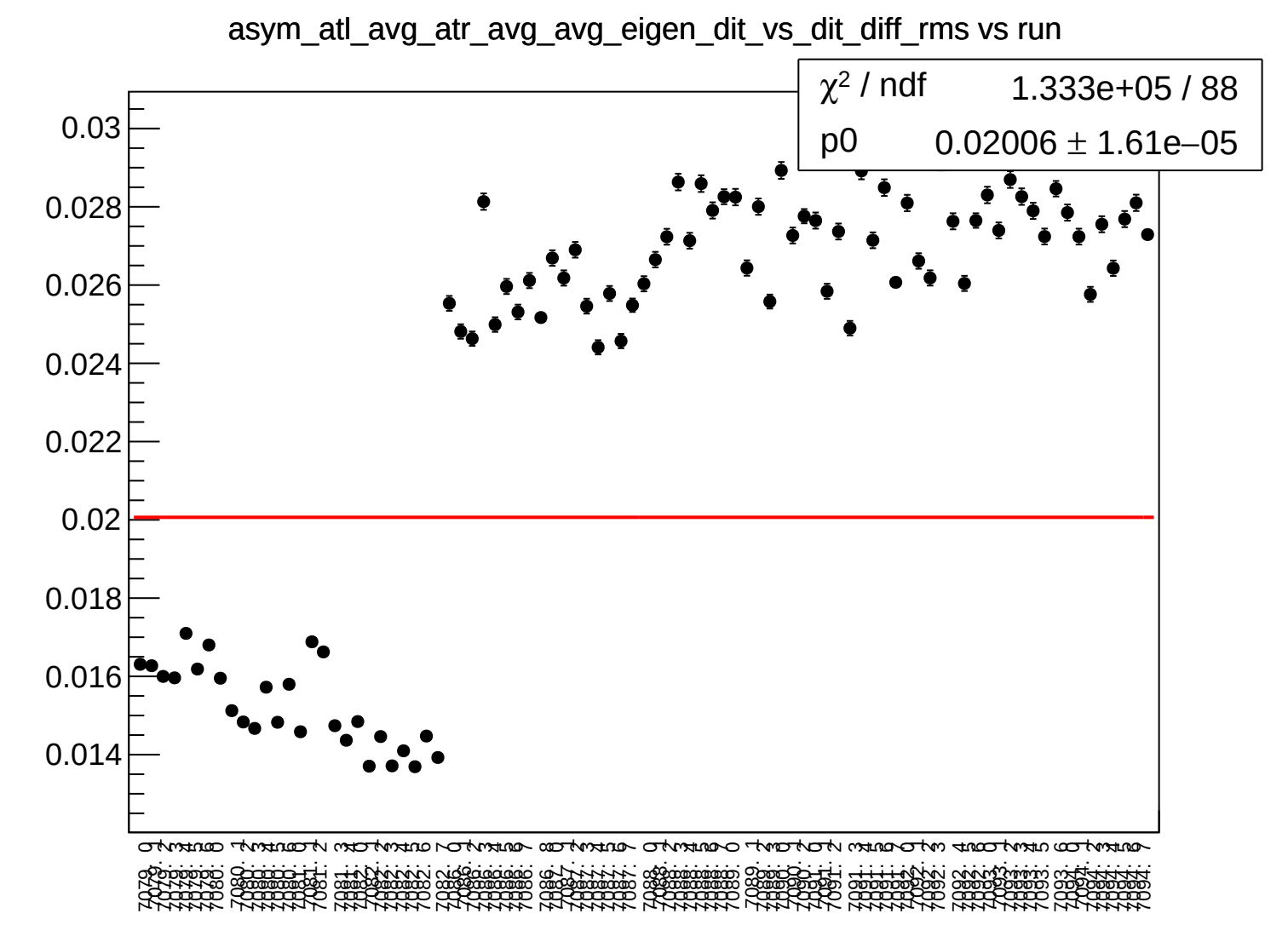

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.27 / 88
p0 0.2363 ± 0.3988
pull
Entries 89
Mean −4.88
Std Dev 0

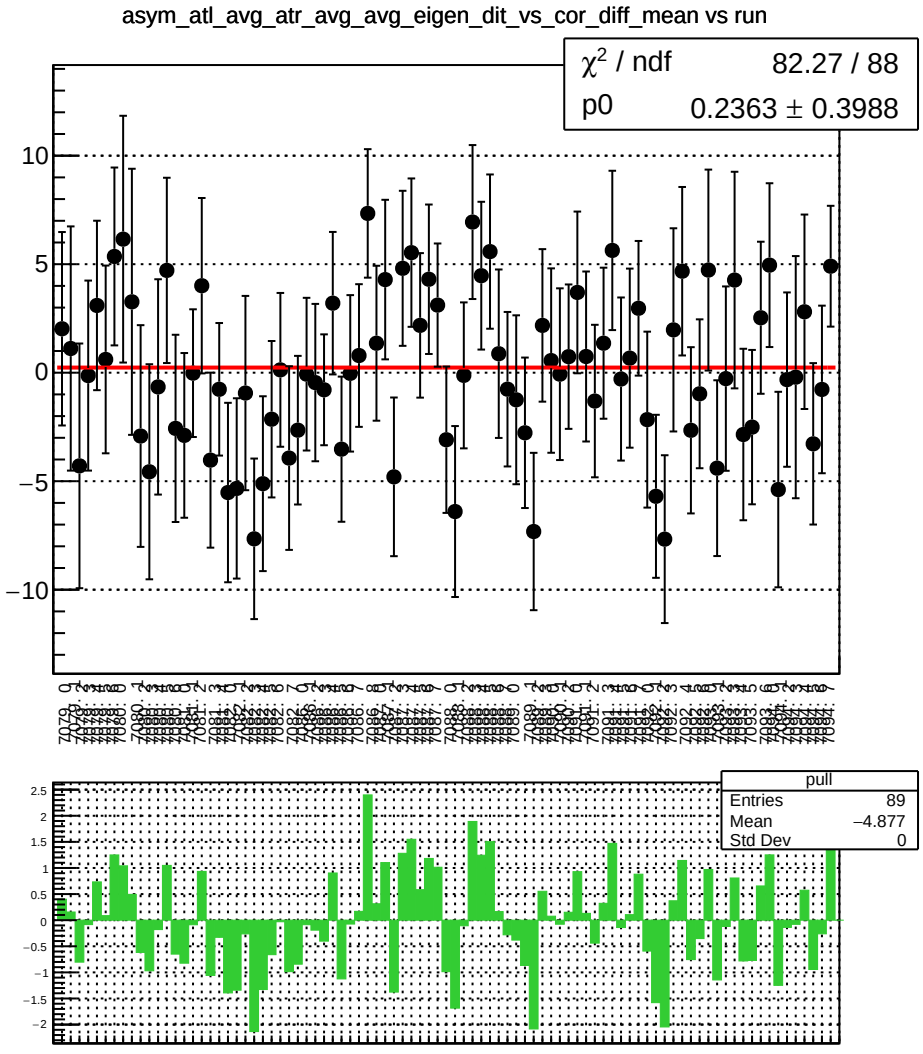

pull1D
Entries 89
Mean −0.02442
Std Dev 0.9611

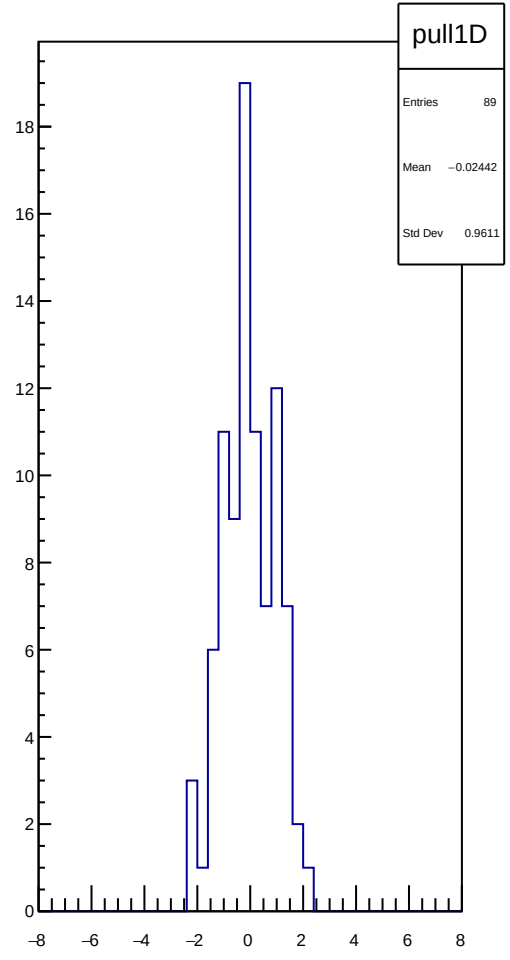

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.549e+04 / 88
p0 362.3 ± 0.282
600
550
500
450
400
350
300
250

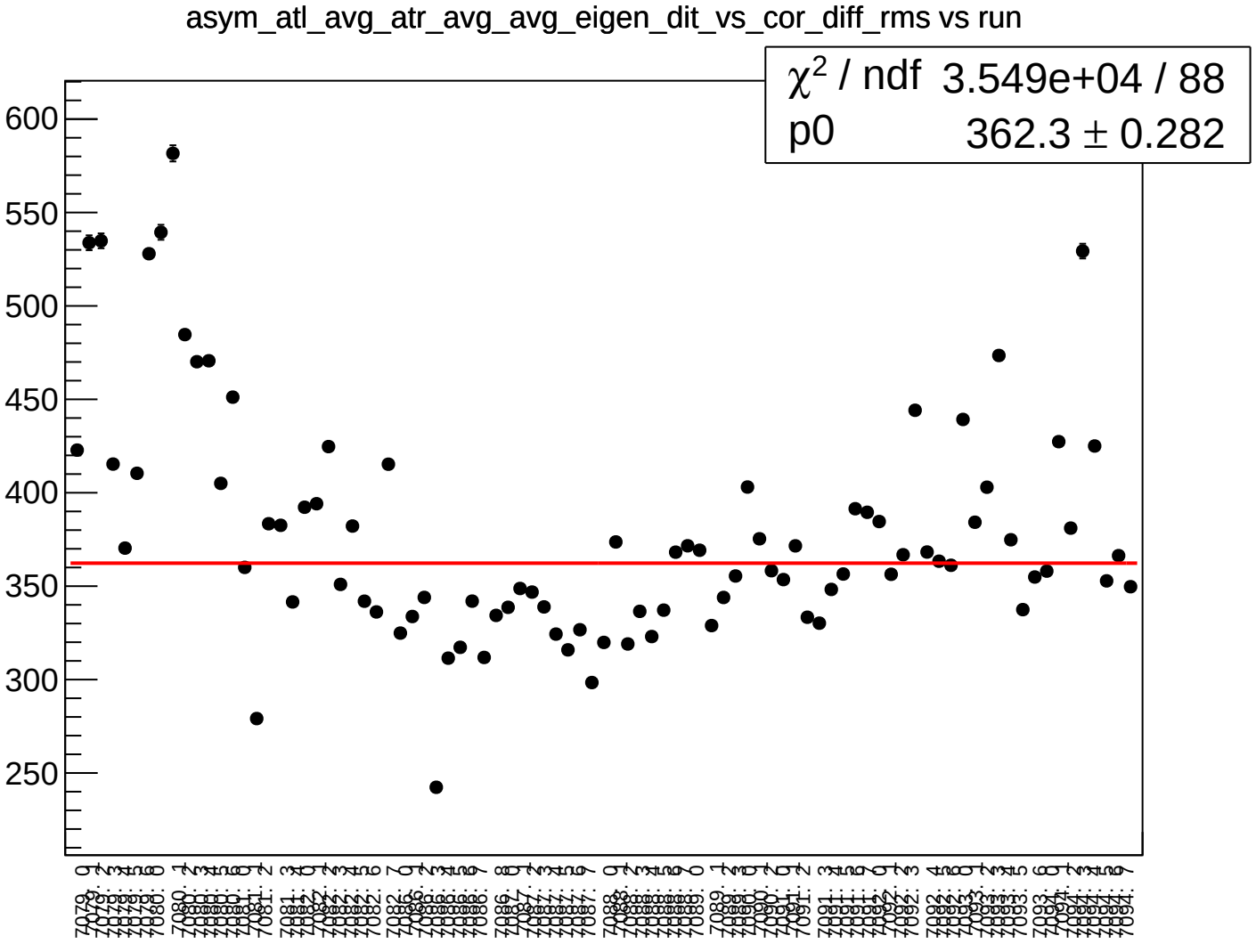

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.55 / 88
p0 −2.514e−05 ± 2.277e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −853.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

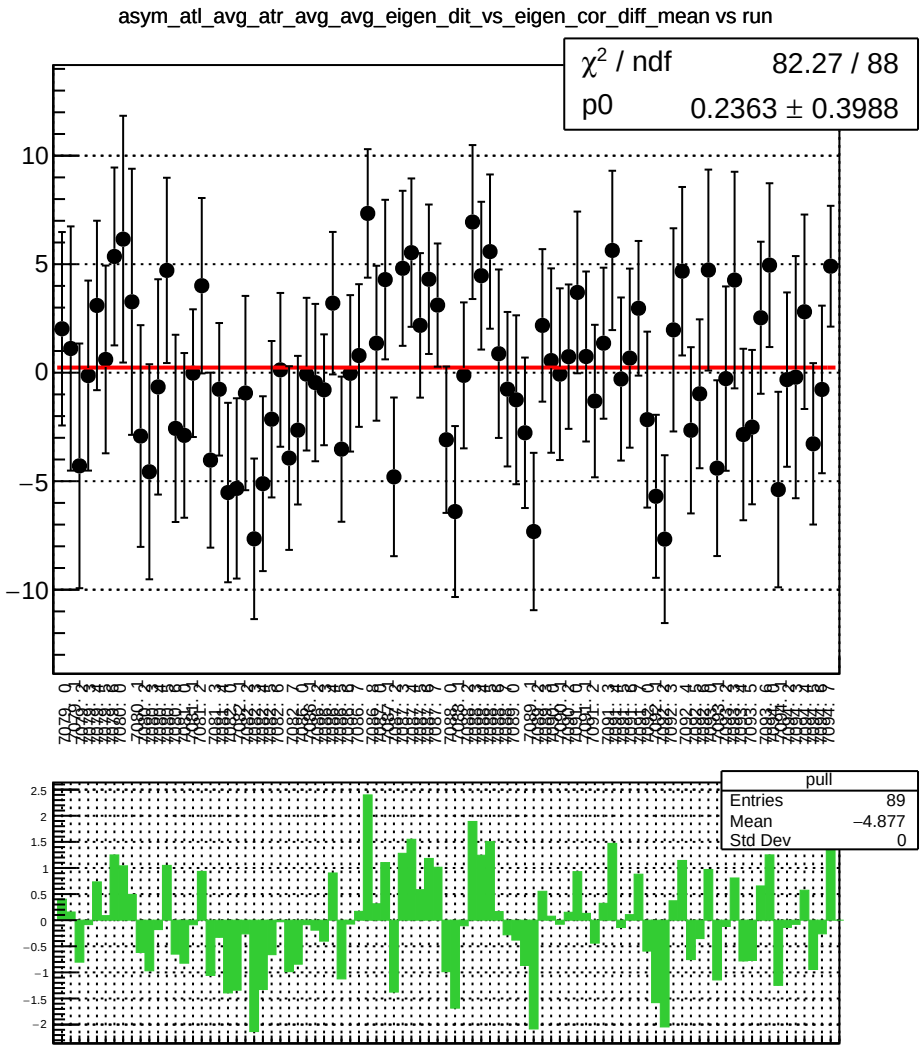

pull1D
Entries 89
Mean 0.001745
Std Dev 0.8966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

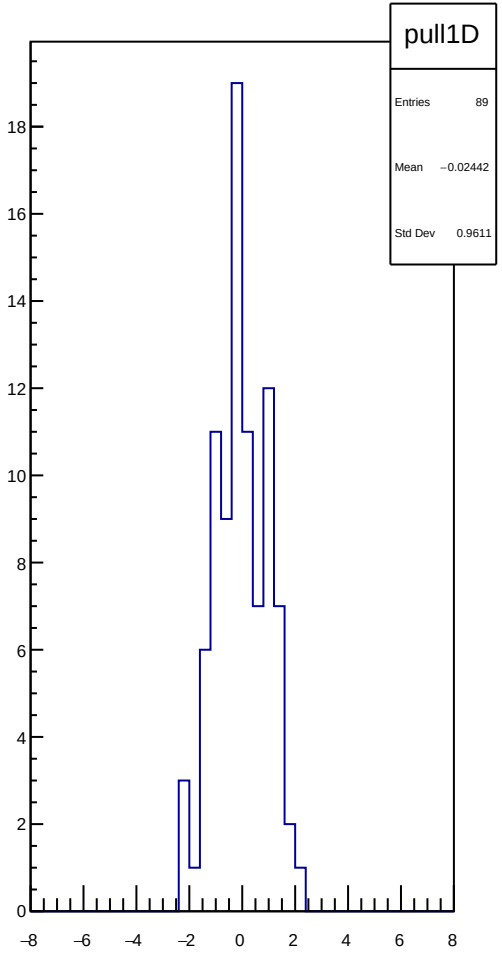

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.333e+05 / 88
p0 0.02006 ± 1.61e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

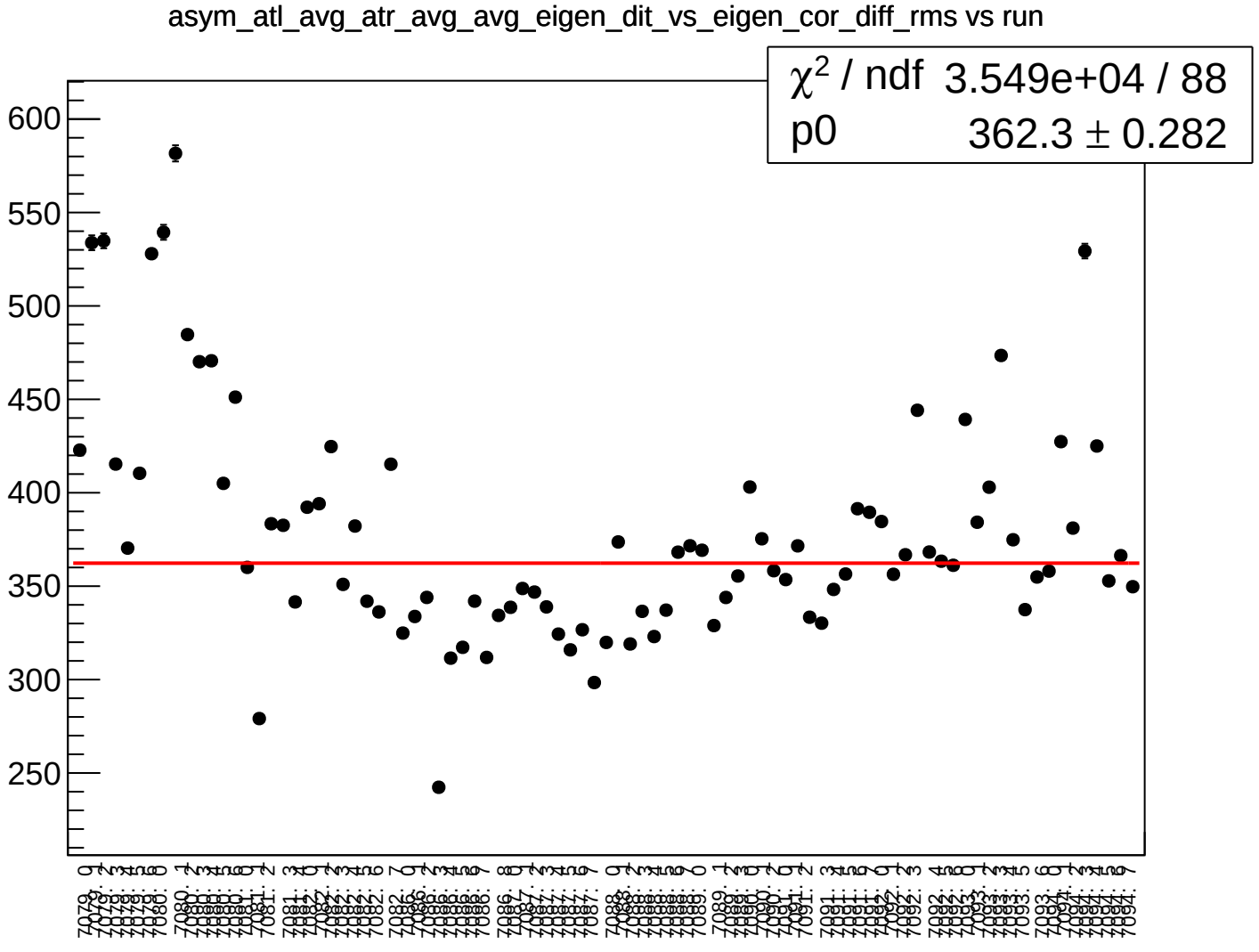

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.27 / 88
p0 0.2363 ± 0.3988
pull
Entries 89
Mean −4.877
Std Dev 0

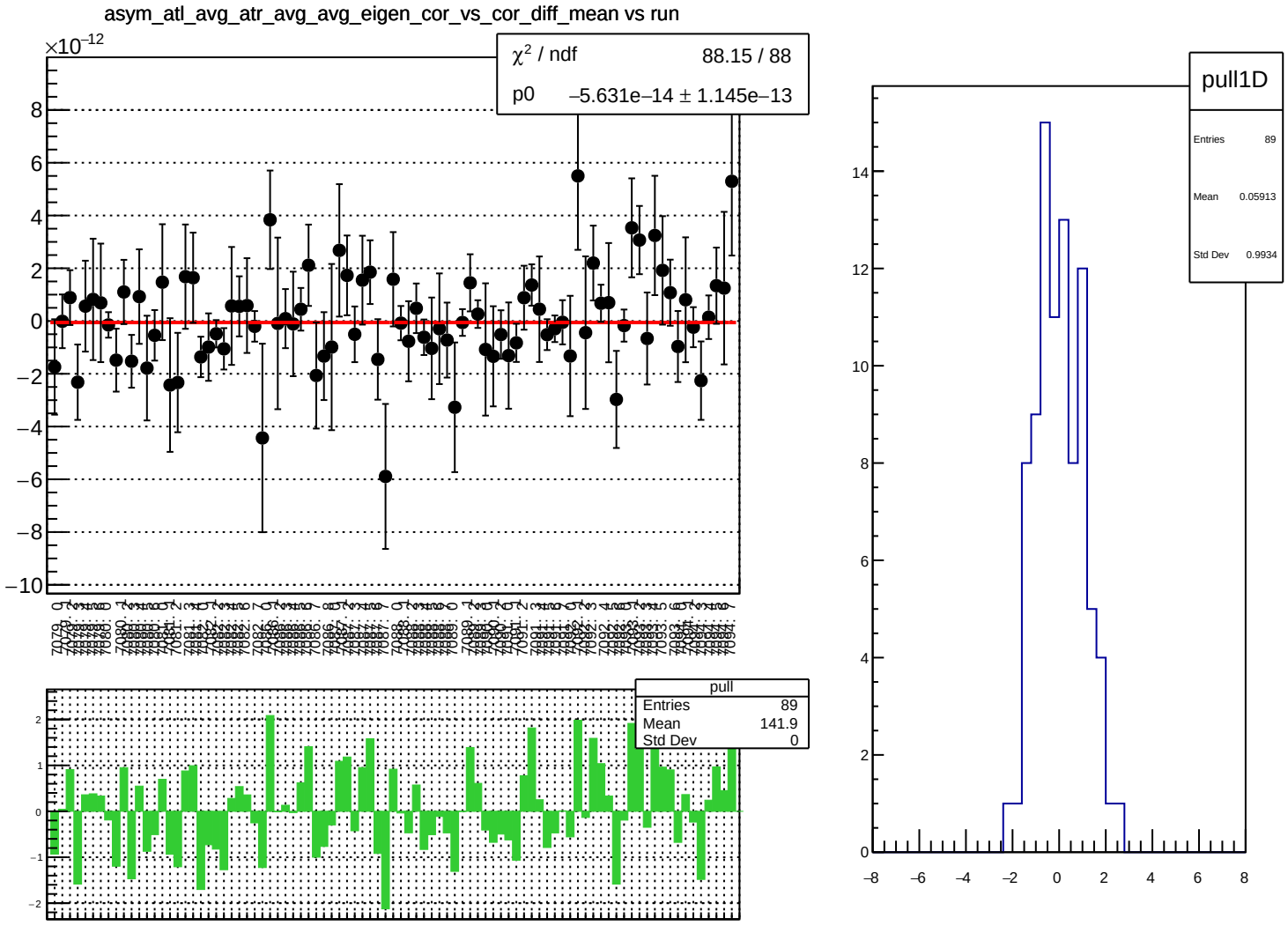

pull1D
Entries 89
Mean −0.02442
Std Dev 0.9611

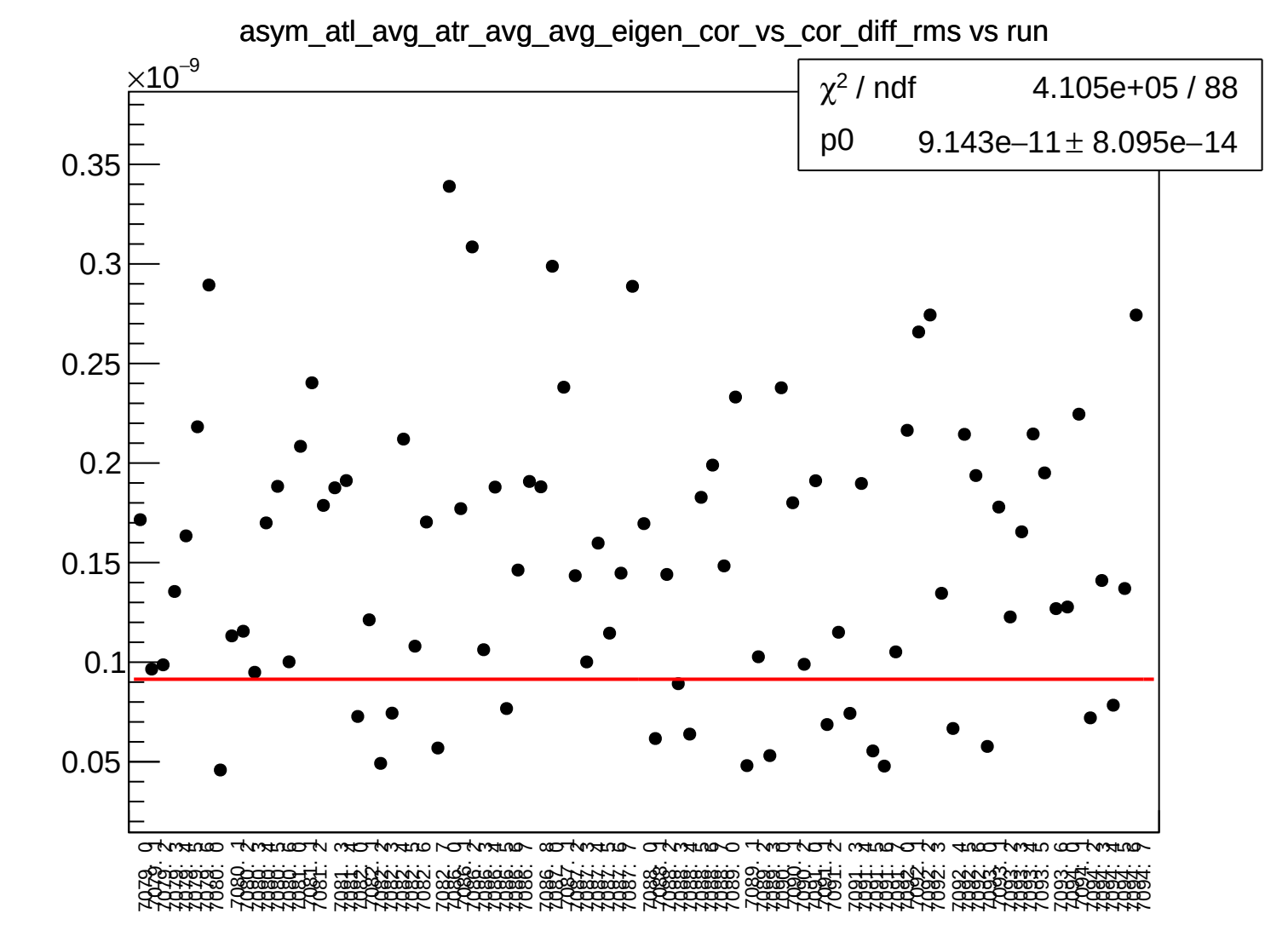

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.549e+04 / 88
p0 362.3 ± 0.282
600
550
500
450
400
350
300
250

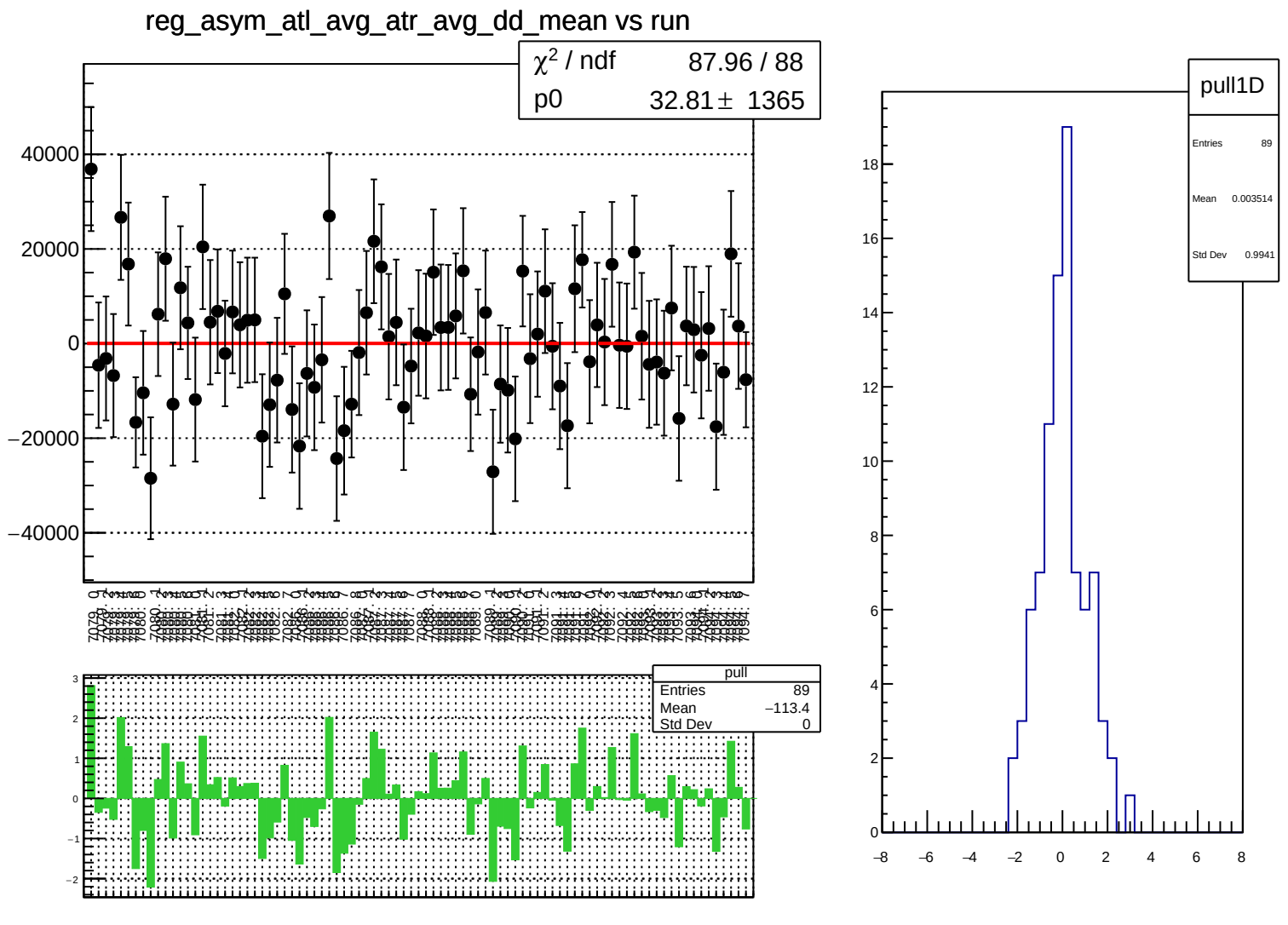

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.27 / 88
p0 0.2363 ± 0.3988
pull
Entries 89
Mean −4.877
Std Dev 0

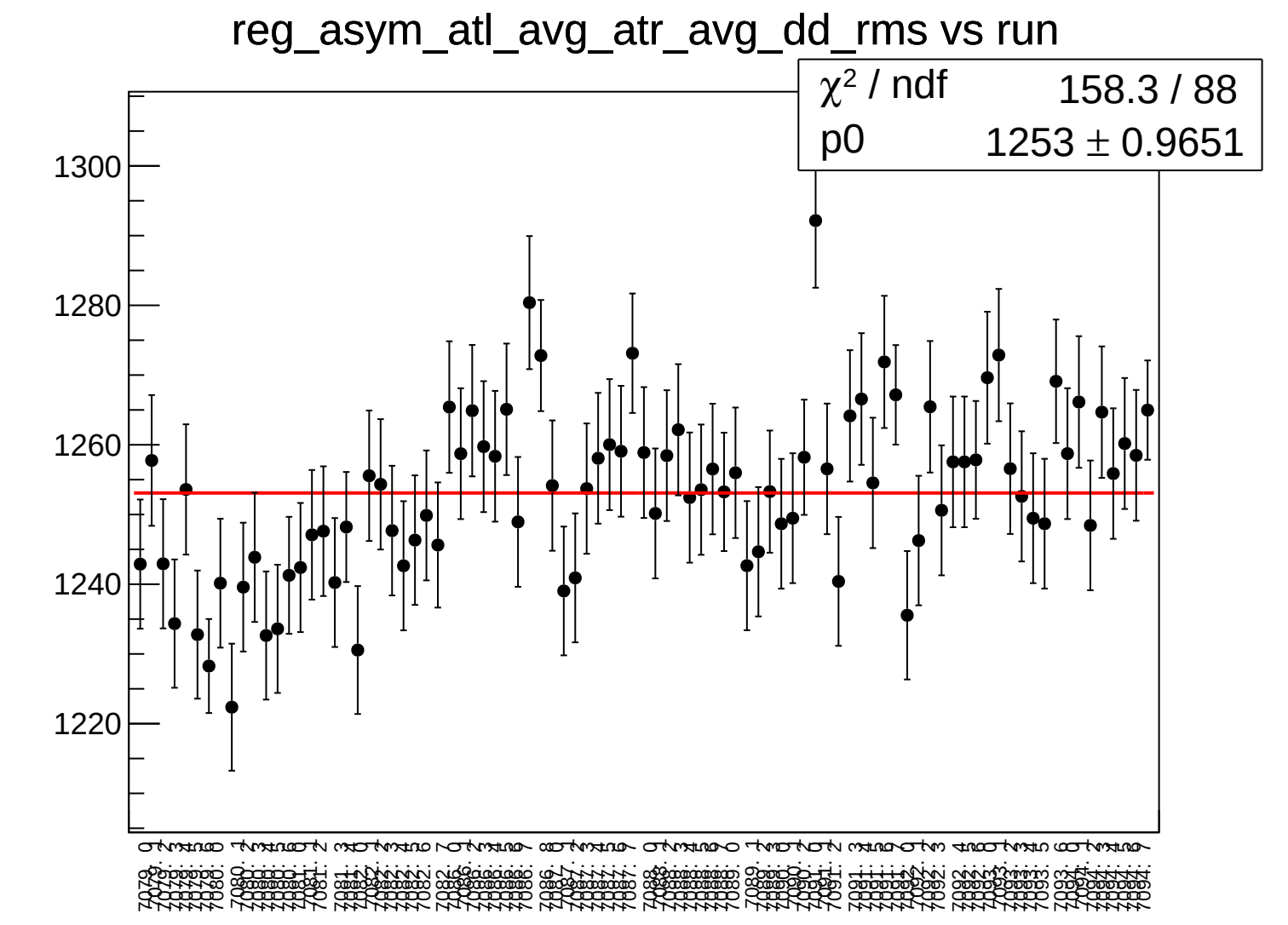

pull1D
Entries 89
Mean −0.02442
Std Dev 0.9611

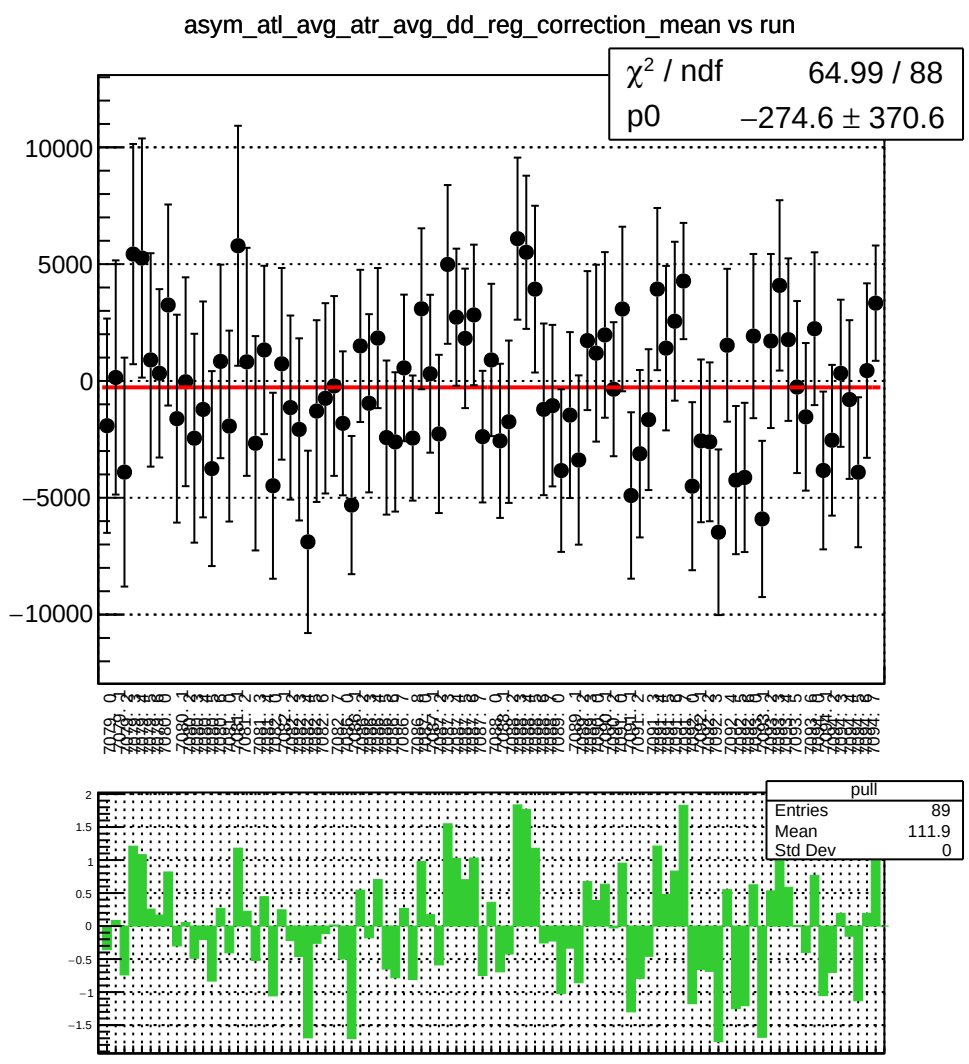

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.549e+04 / 88
p0 362.3 ± 0.282
600
550
500
450
400
350
300
250

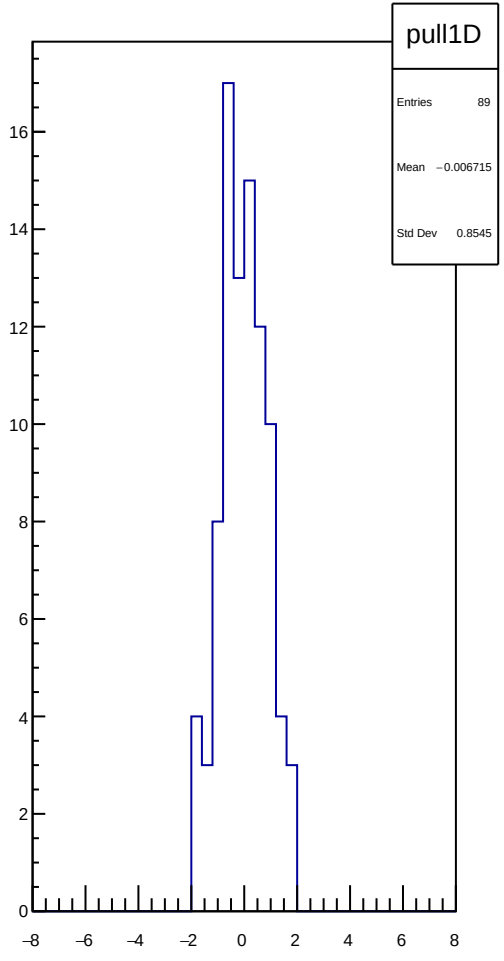

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.15 / 88
p0 −5.631e−14 ± 1.145e−13
pull
Entries 89
Mean 141.9
Std Dev 0
pull1D
Entries 89
Mean 0.05913
Std Dev 0.9934

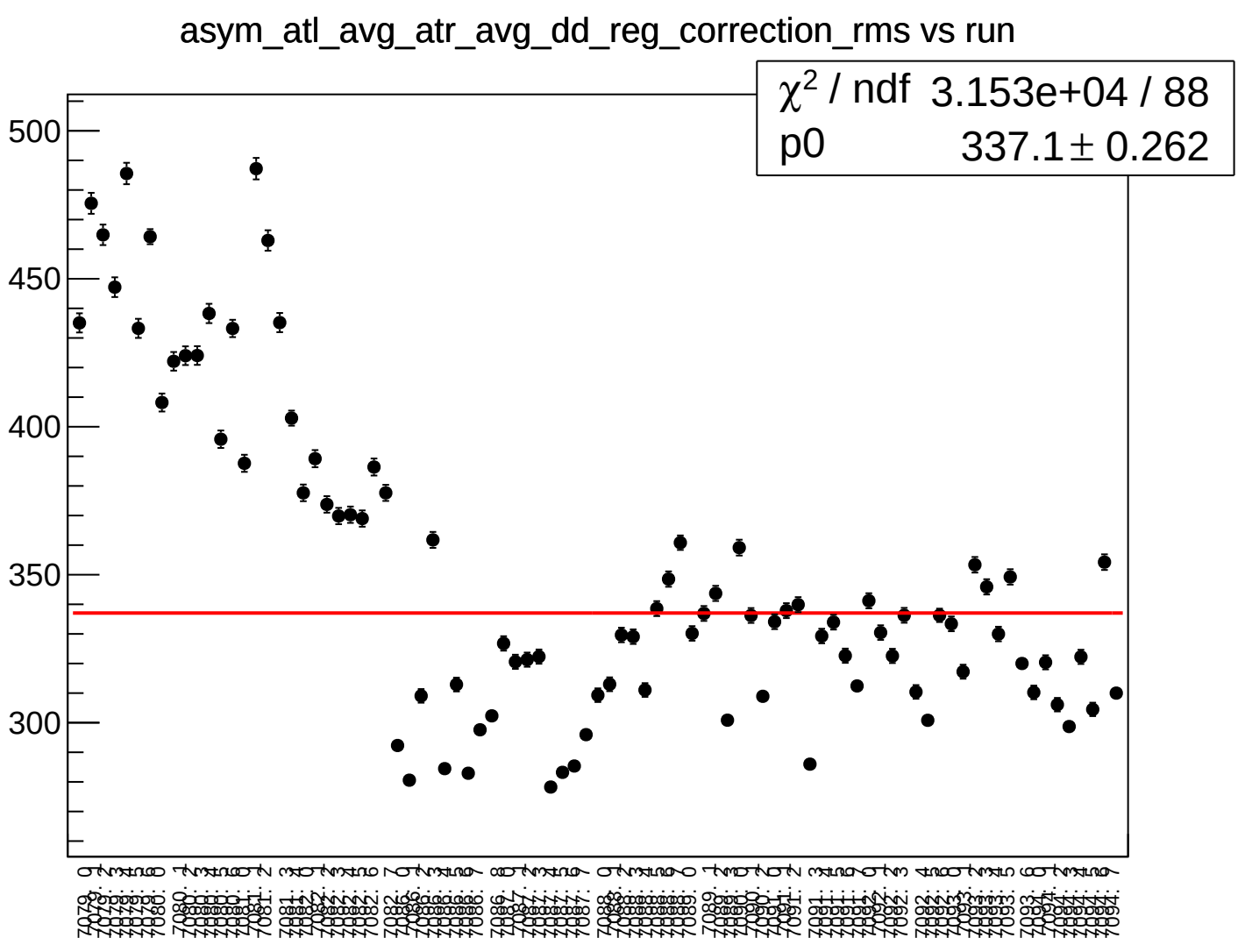

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.105e+05 / 88
p0 9.143e−11 ± 8.095e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

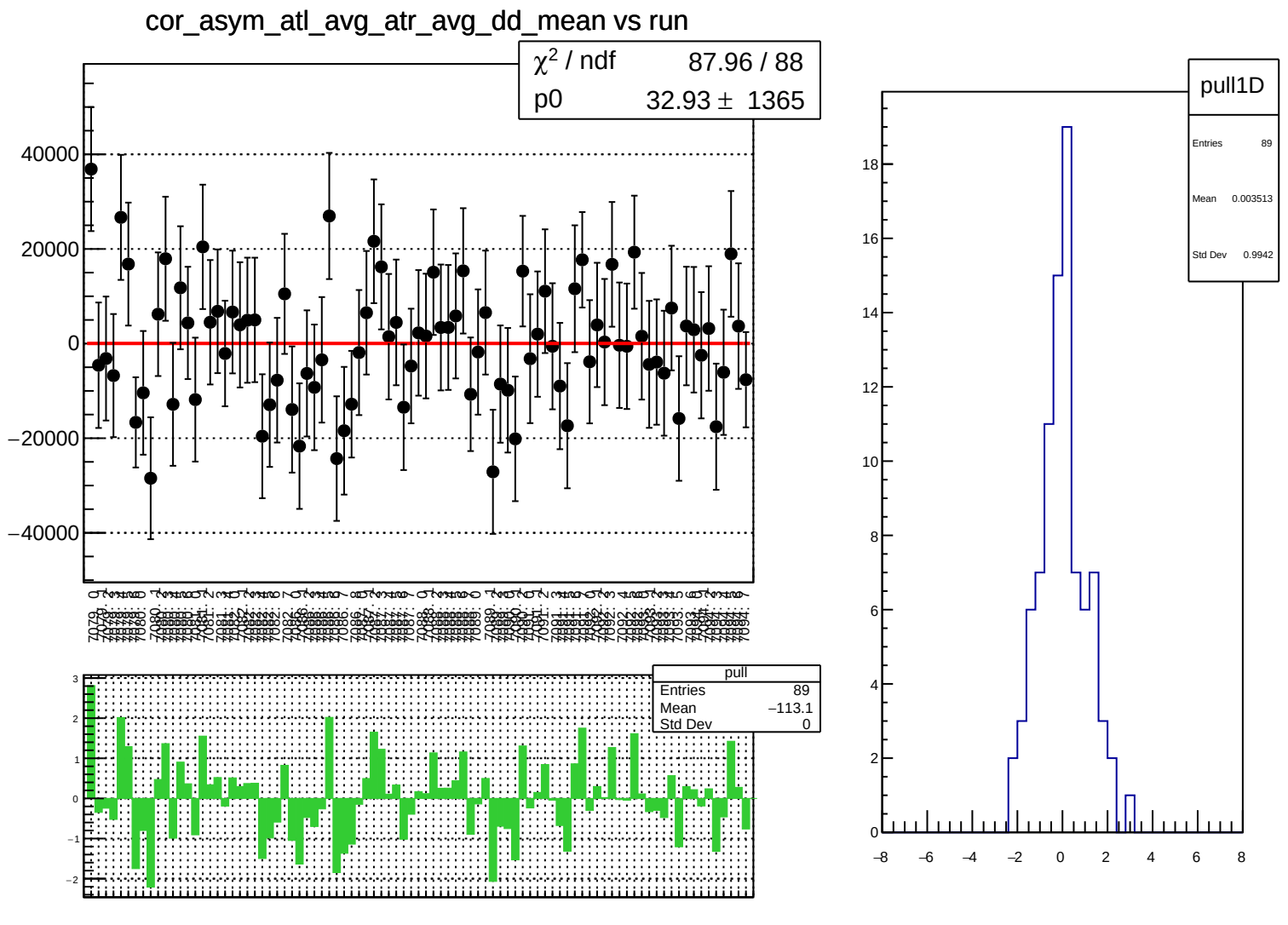

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 87.96 / 88
p0 32.81 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −113.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.003514
Std Dev 0.9941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

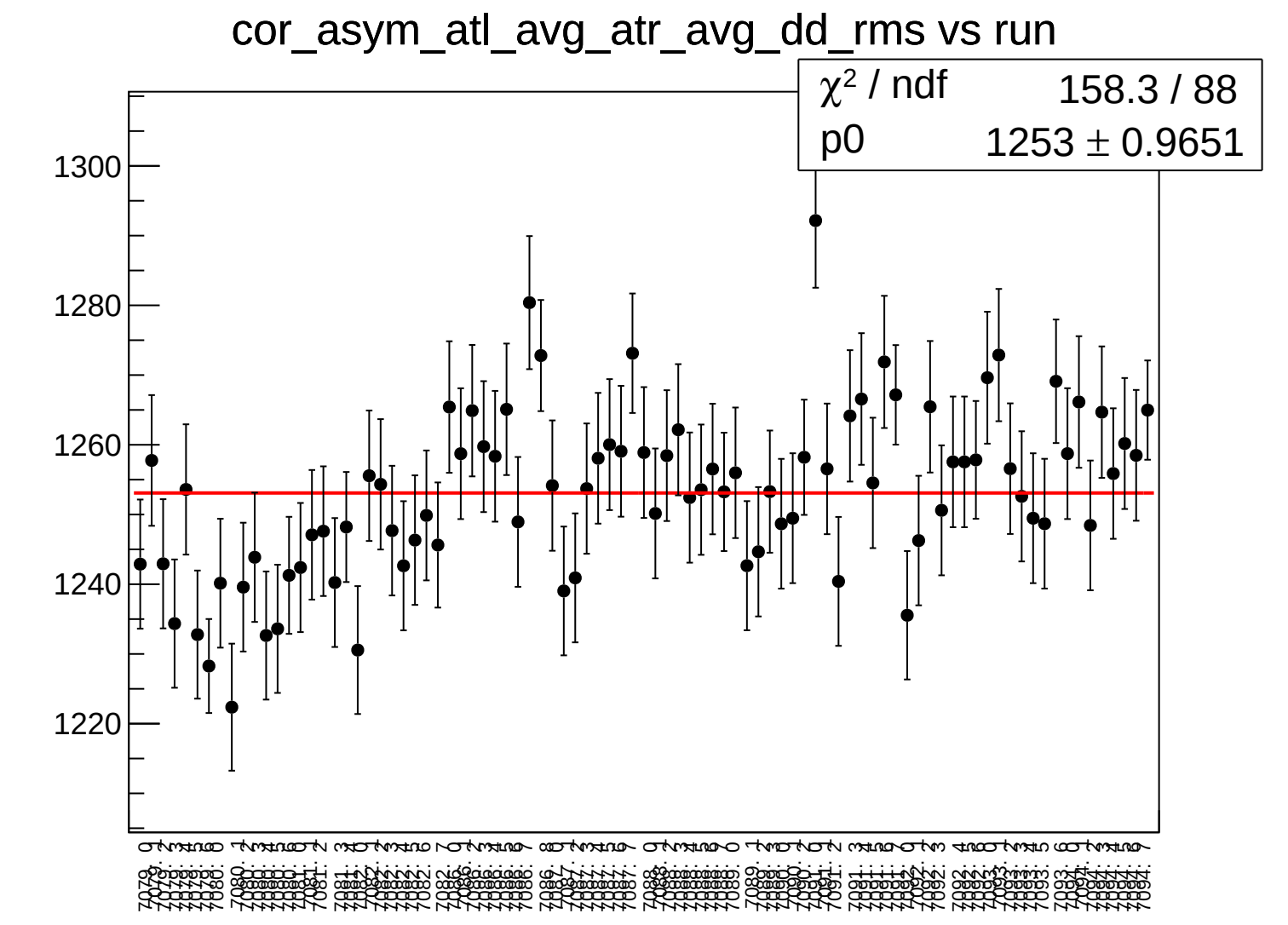

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 158.3 / 88
p0 1253 ± 0.9651
1300
1280
1260
1240
1220

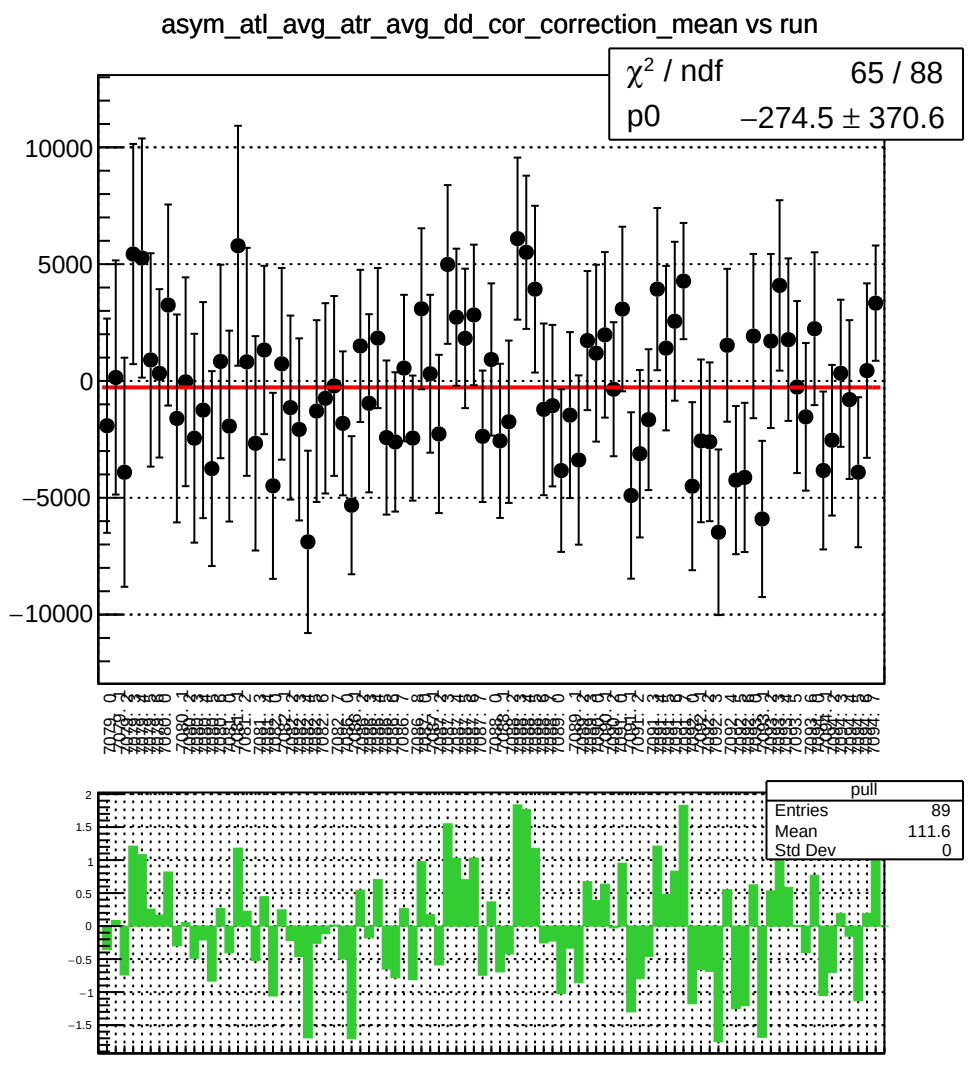

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 64.99 / 88
p0 −274.6 ± 370.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 111.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

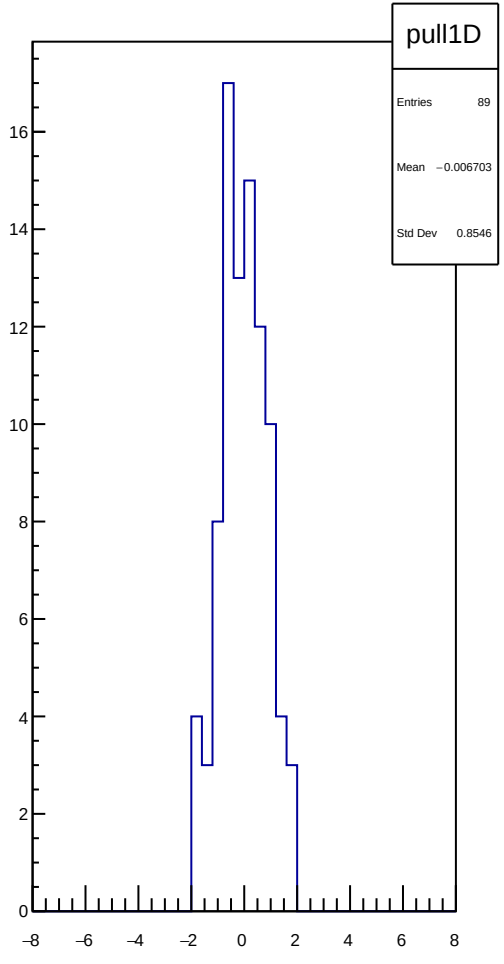

pull1D
Entries 89
Mean −0.006715
Std Dev 0.8545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

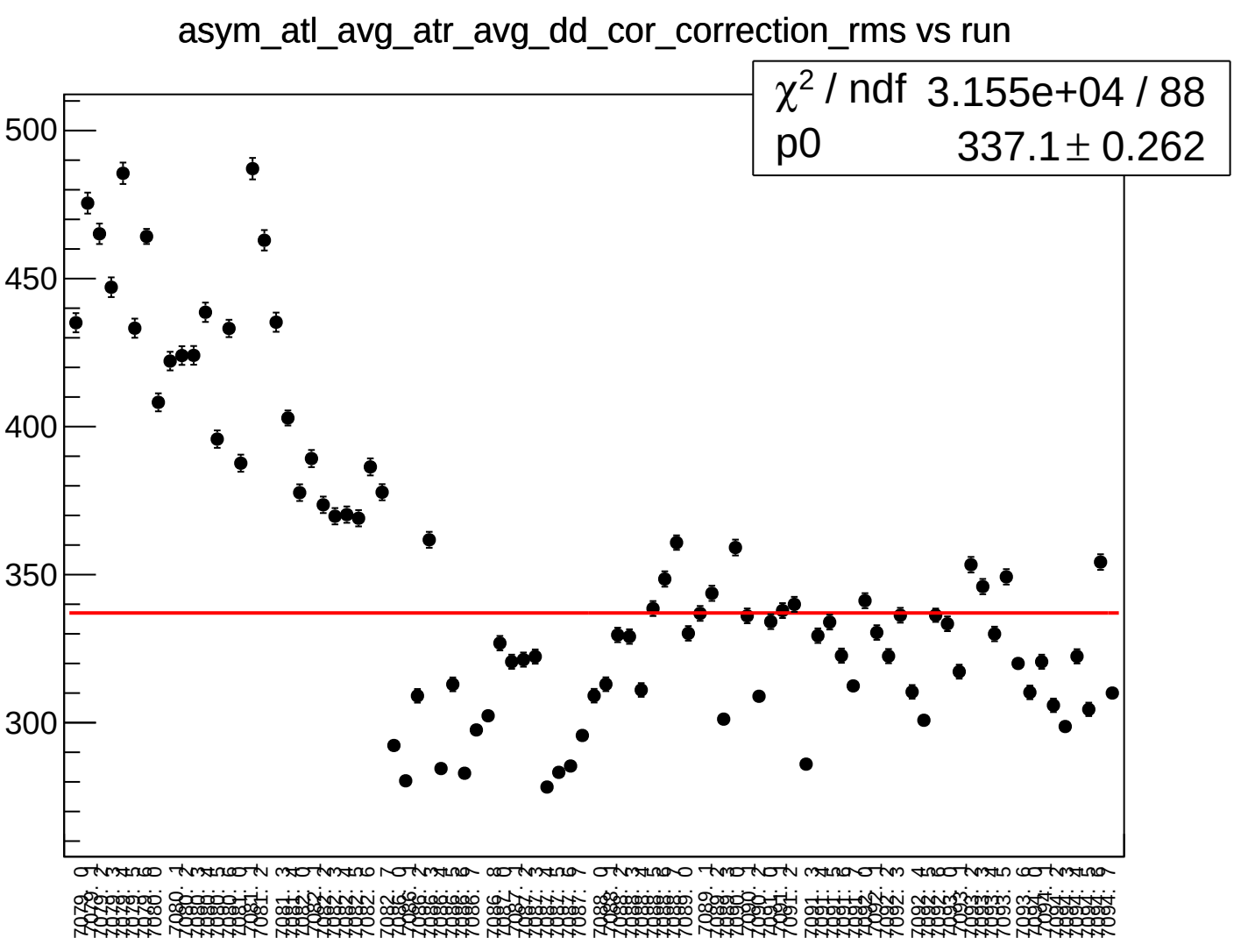

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.153e+04 / 88
p0 337.1 ± 0.262
500
450
400
350
300

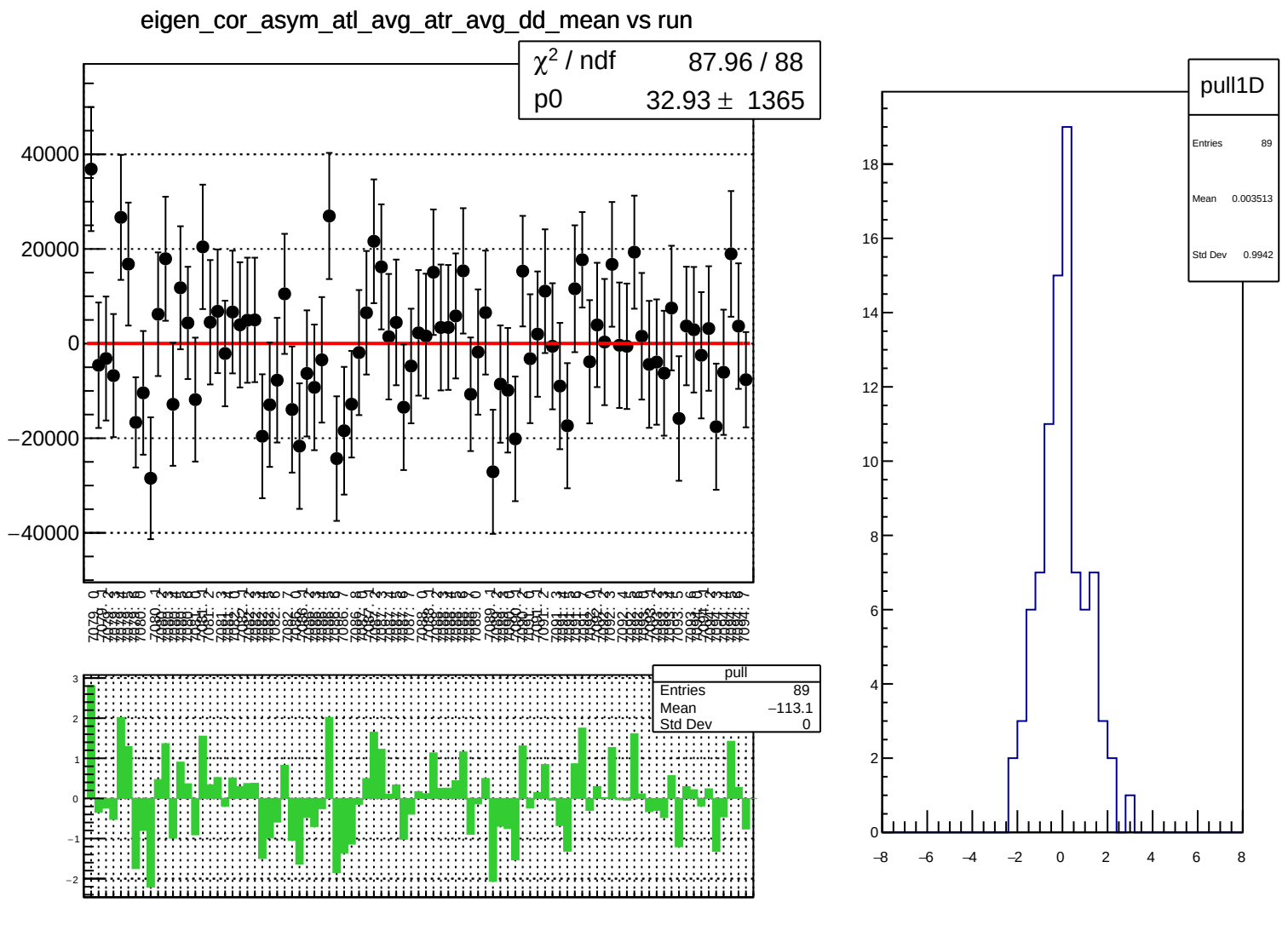

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 87.96 / 88
p0 32.93 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −113.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.003513
Std Dev 0.9942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

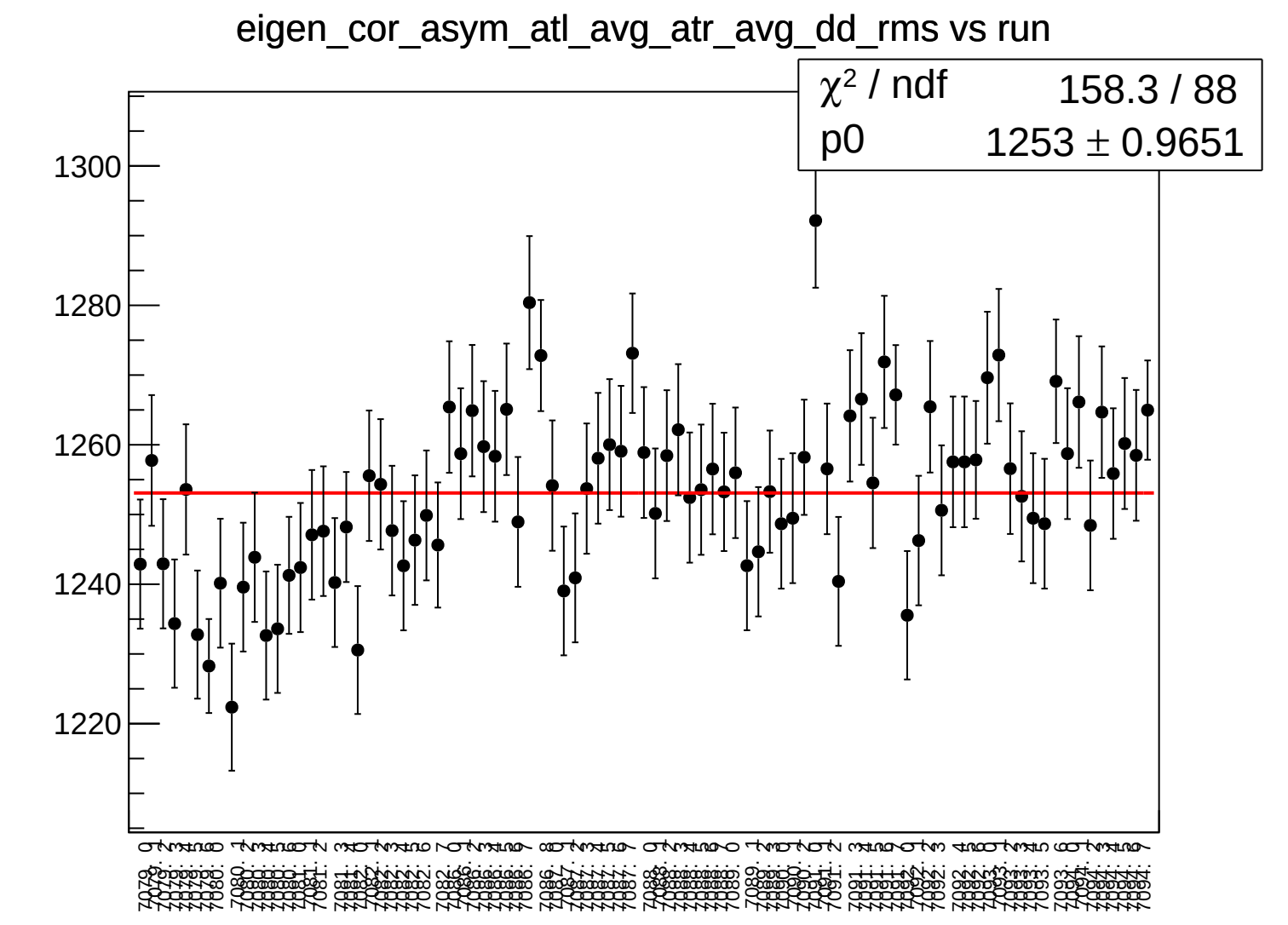

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 158.3 / 88
p0 1253 ± 0.9651
1300
1280
1260
1240
1220

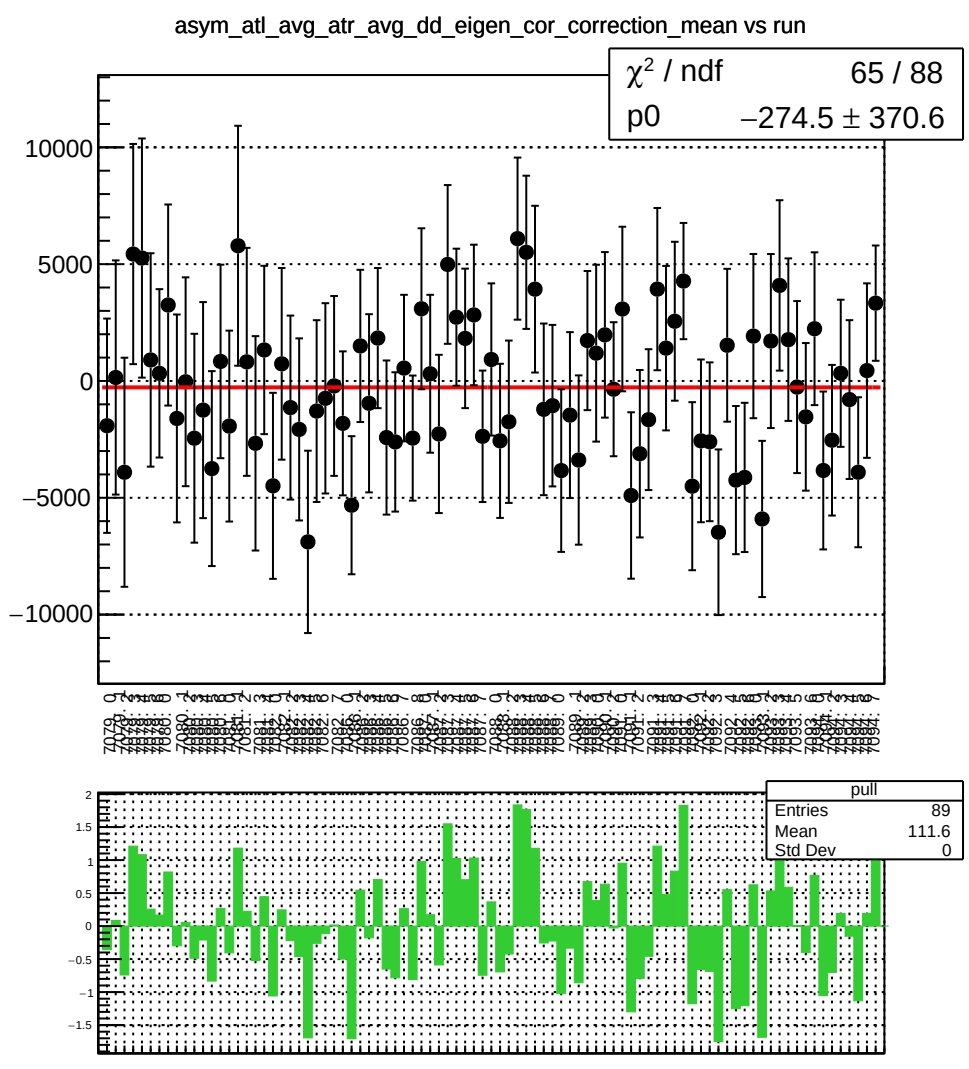

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 65 / 88
p0 −274.5 ± 370.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 111.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

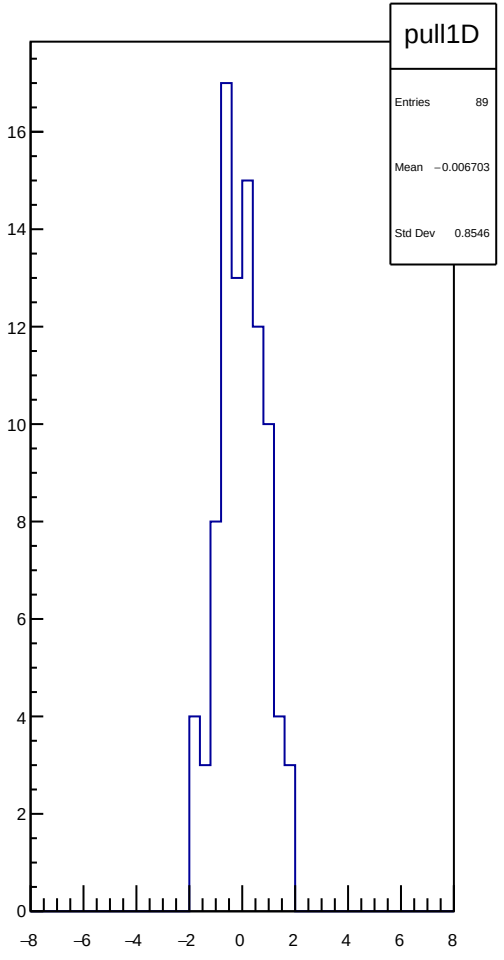

pull1D
Entries 89
Mean −0.006703
Std Dev 0.8546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

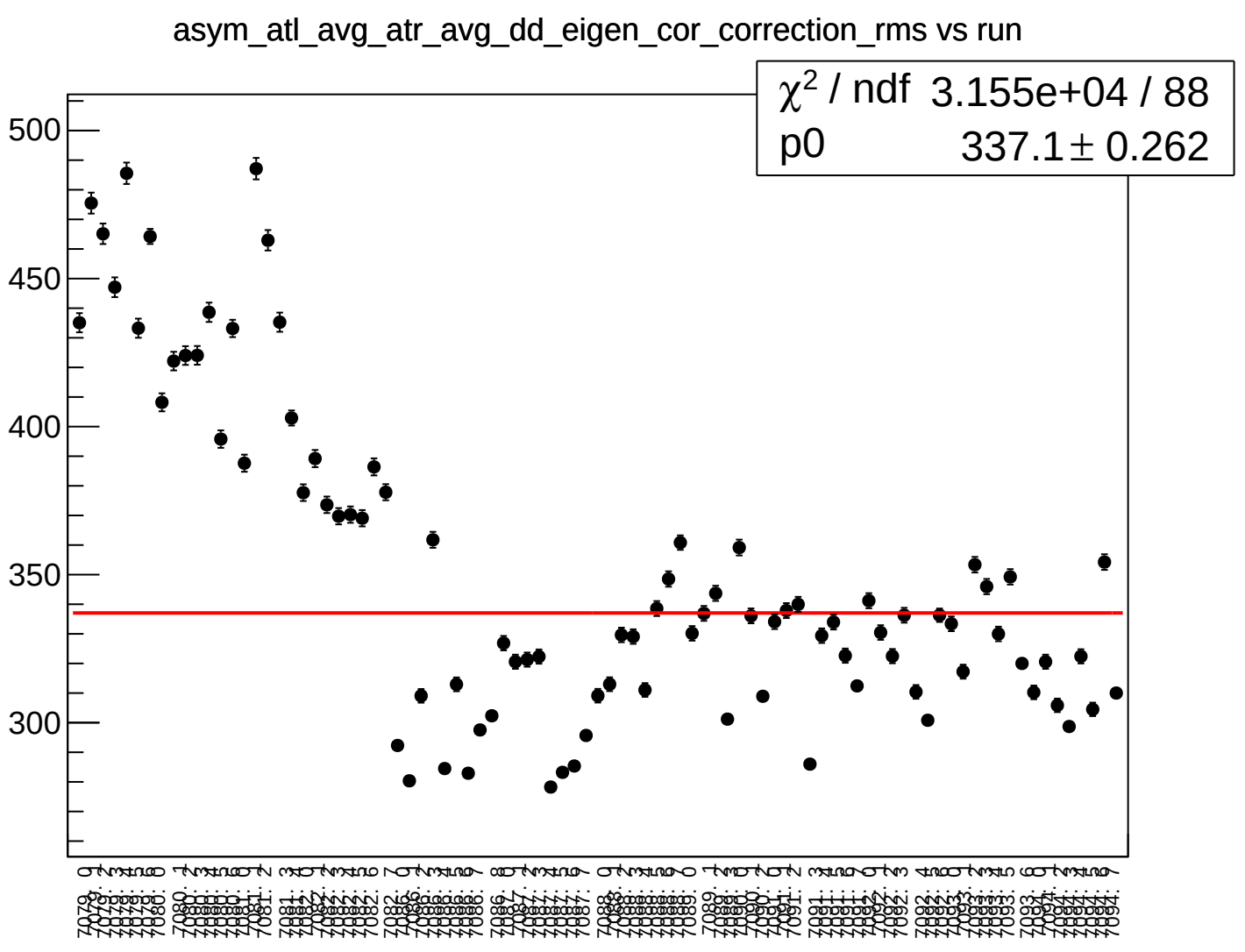

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.155e+04 / 88
p0 337.1 ± 0.262
500
450
400
350
300

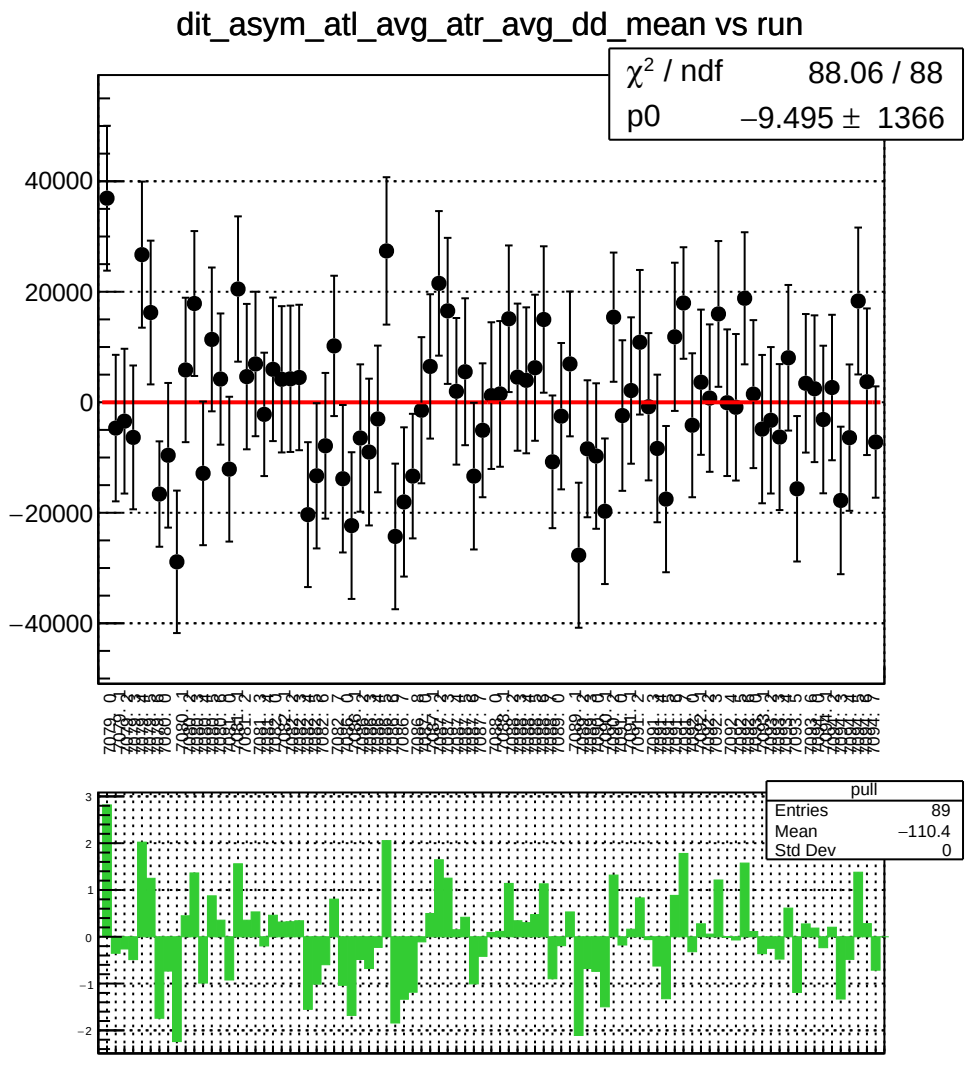

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 87.96 / 88
p0 32.93 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −113.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.003513
Std Dev 0.9942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

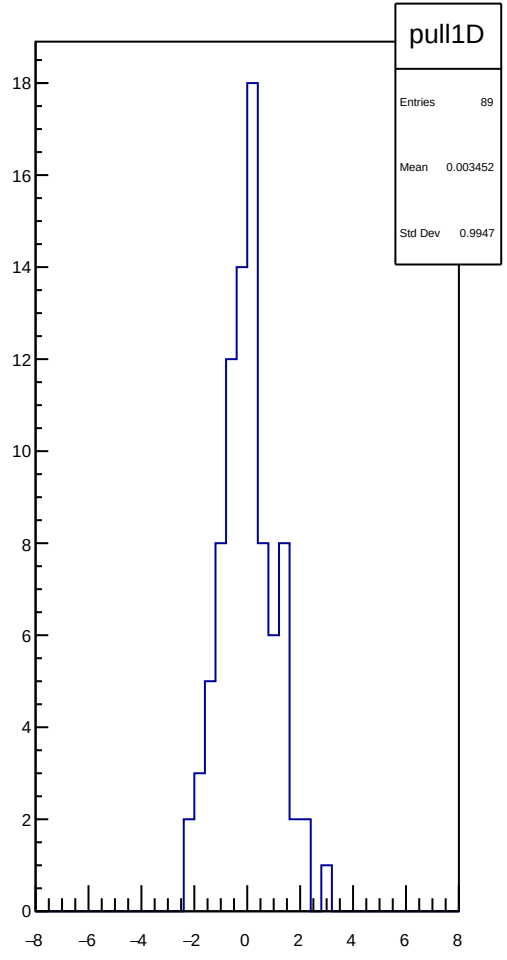

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 158.3 / 88
p0 1253 ± 0.9651
1300
1280
1260
1240
1220

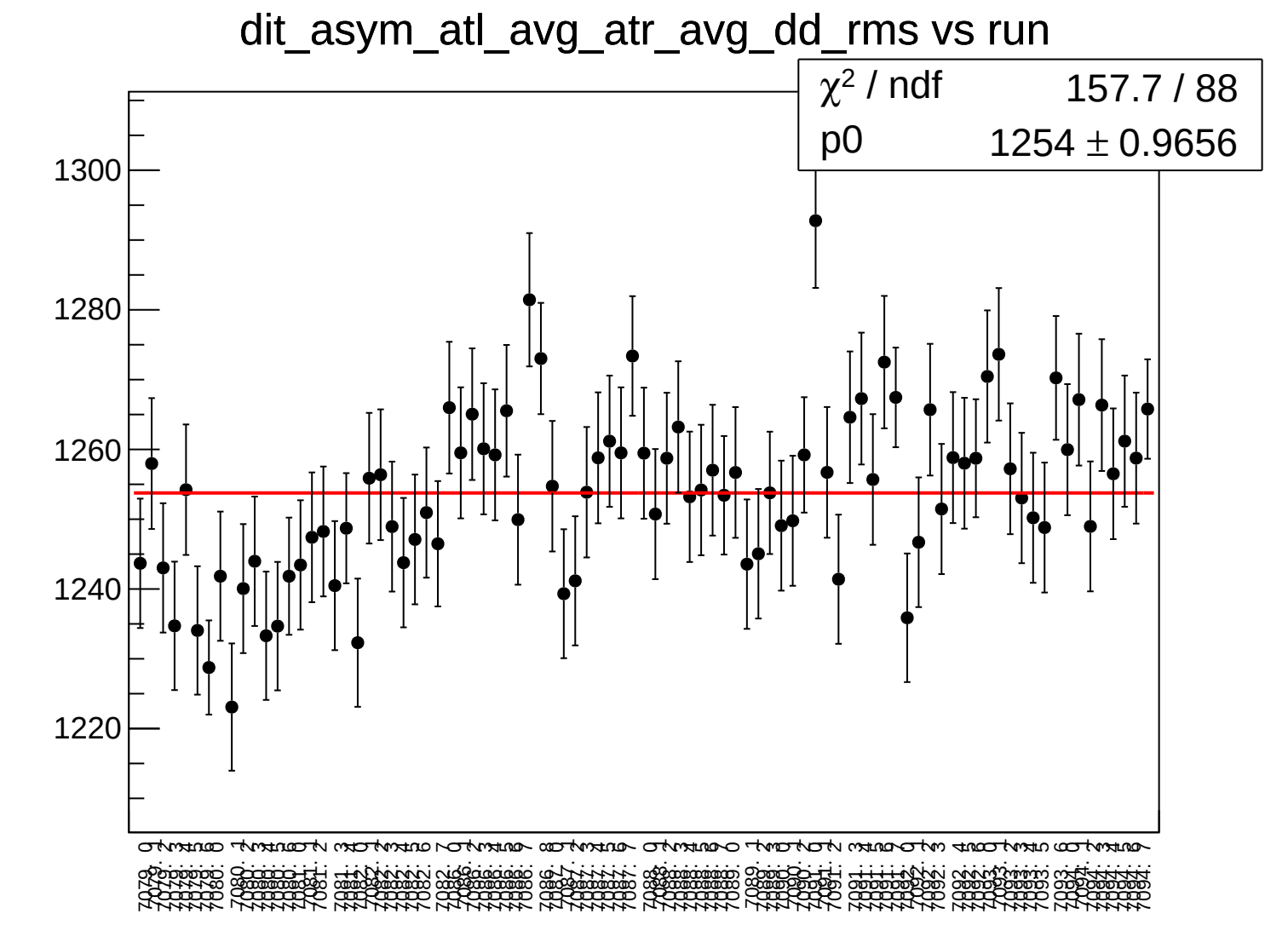

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 65 / 88
p0 −274.5 ± 370.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 111.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

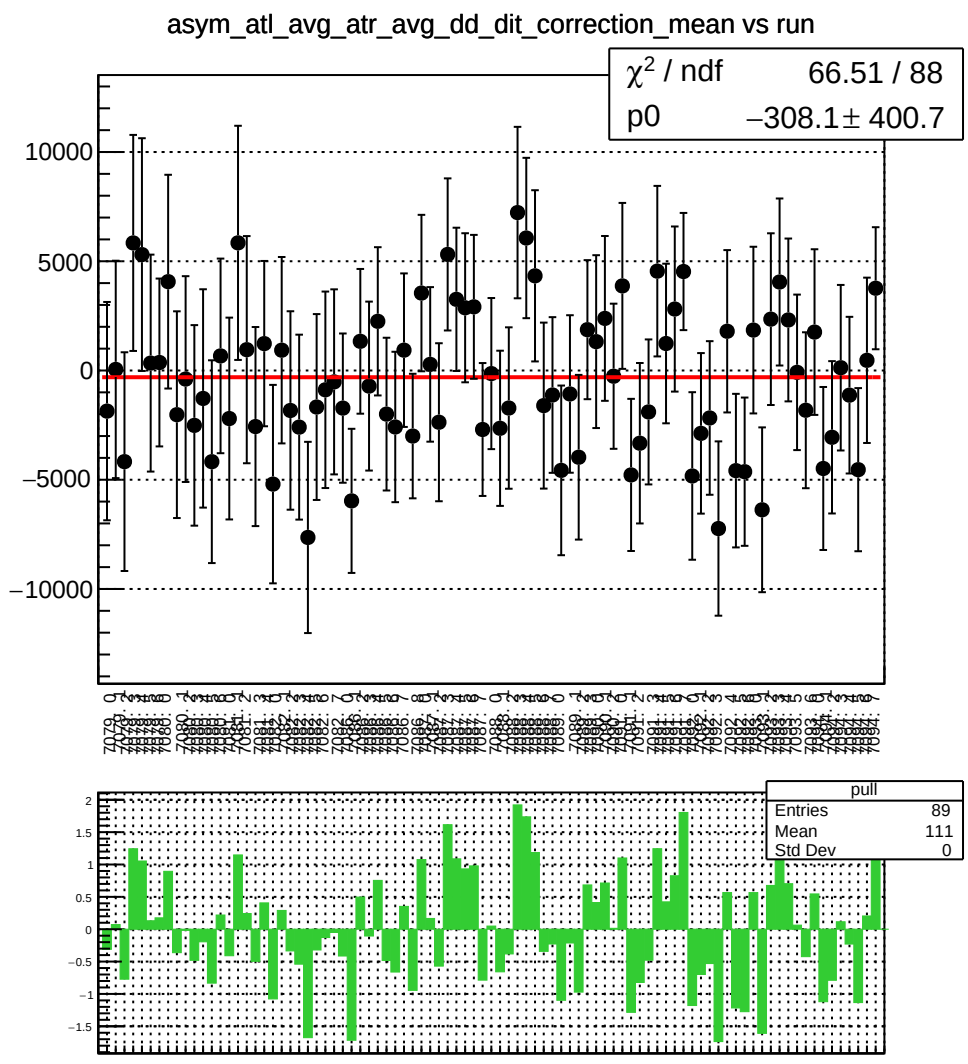

pull1D
Entries 89
Mean −0.006703
Std Dev 0.8546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

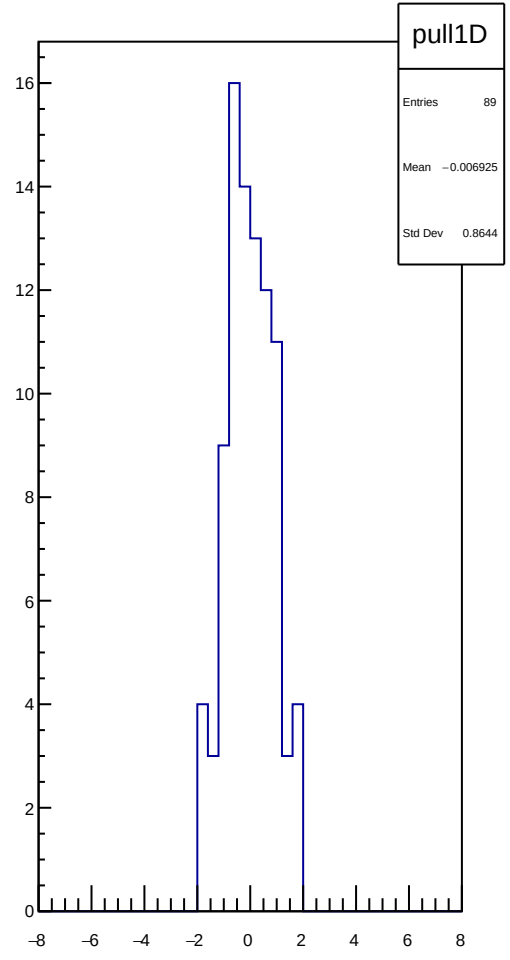

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.155e+04 / 88
p0 337.1 ± 0.262
500
450
400
350
300

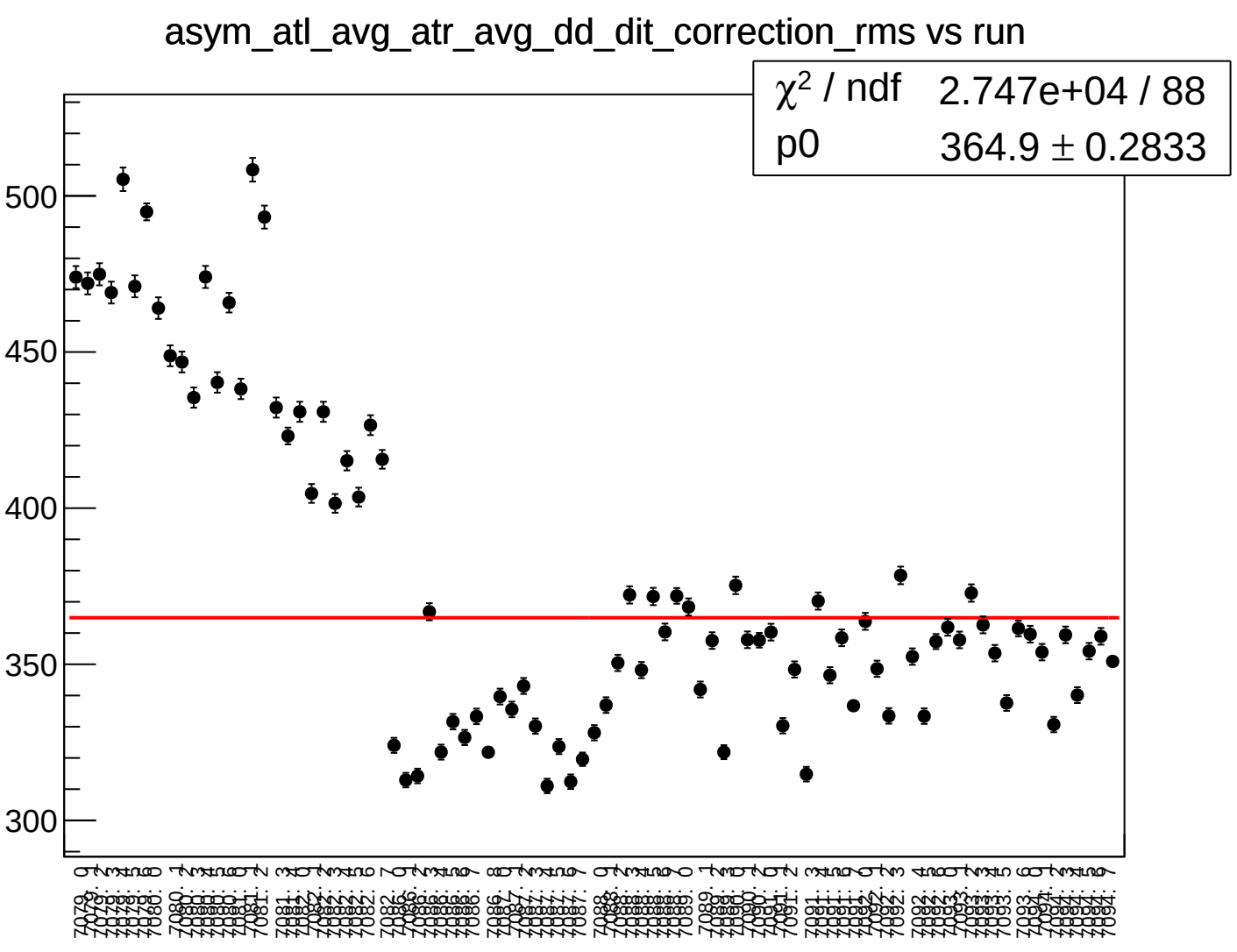

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.06 / 88
p0 −9.495 ± 1366
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −110.4
Std Dev 0
3
2
1
0
−1
−2

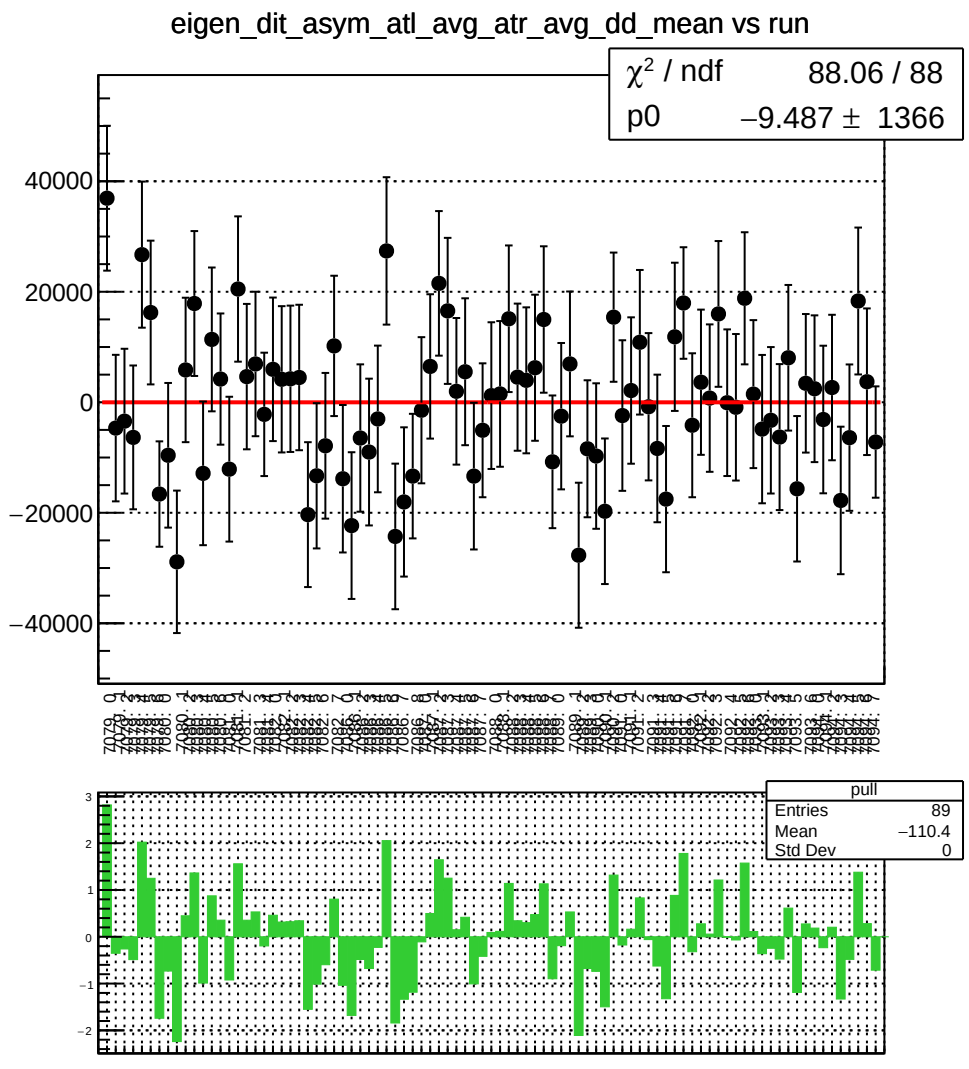

pull1D
Entries 89
Mean 0.003452
Std Dev 0.9947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

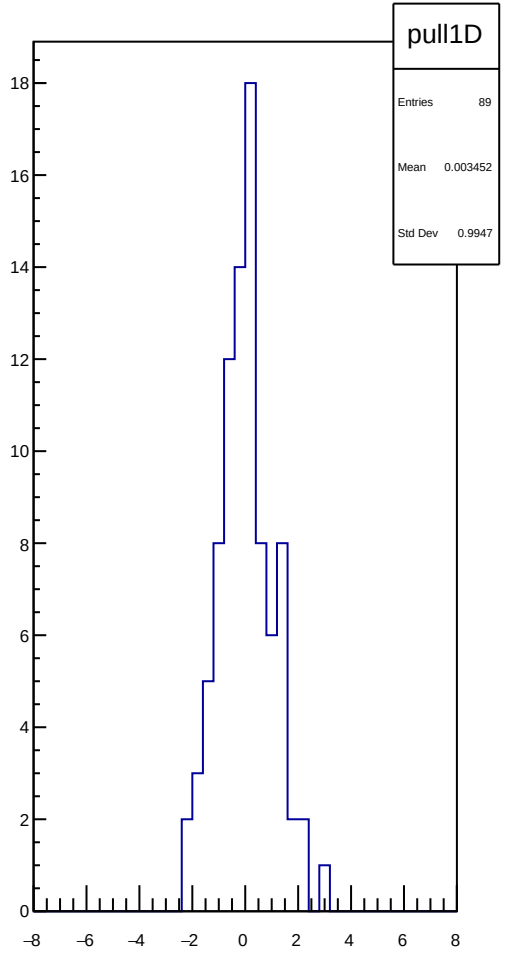

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 157.7 / 88
p0 1254 ± 0.9656
1300
1280
1260
1240
1220

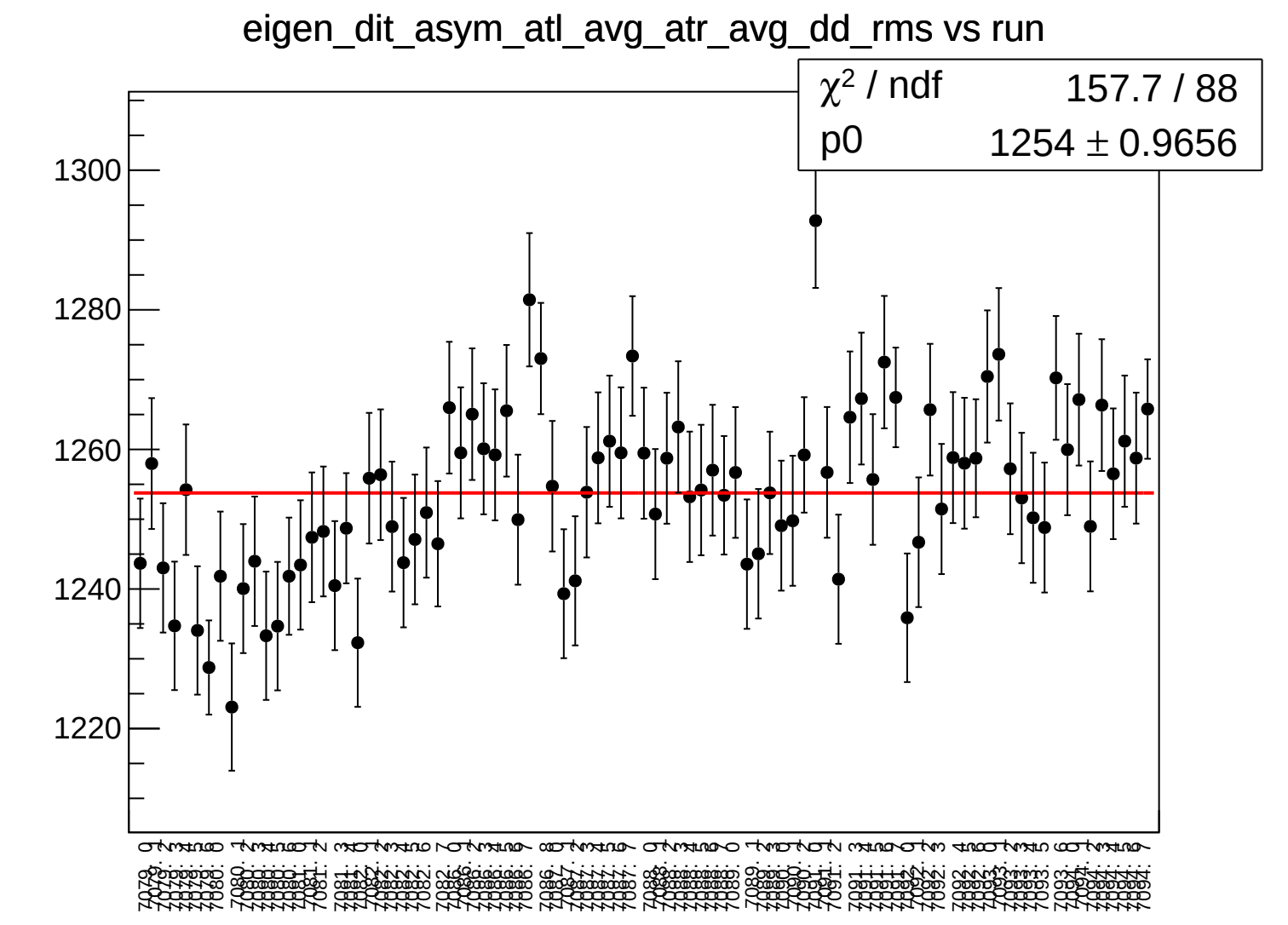

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 66.51 / 88
p0 −308.1± 400.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 111
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

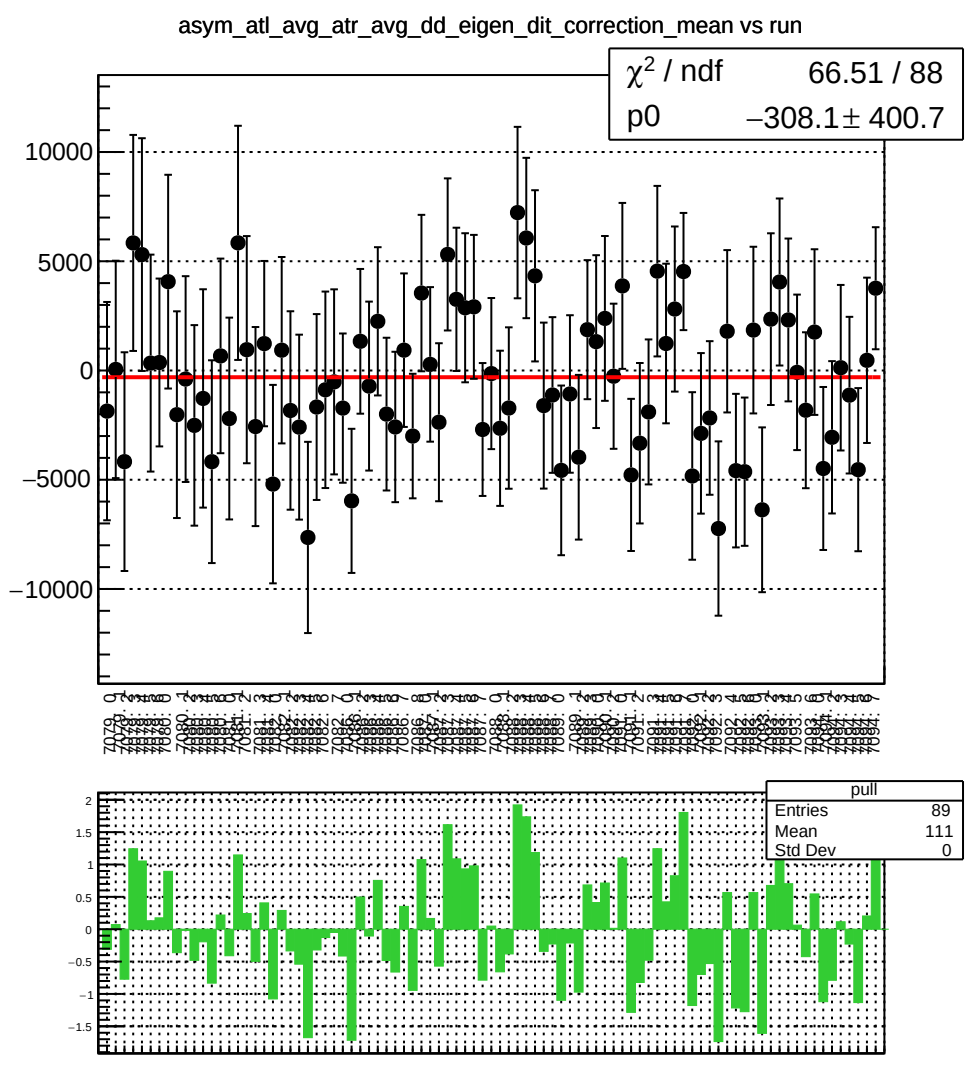

pull1D
Entries 89
Mean −0.006925
Std Dev 0.8644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

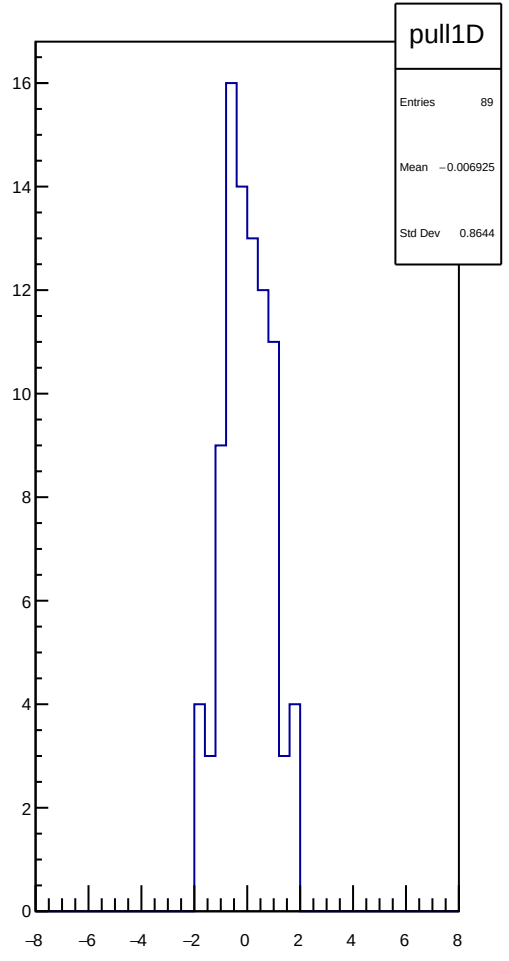

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.747e+04 / 88
p0 364.9 ± 0.2833
500
450
400
350
300

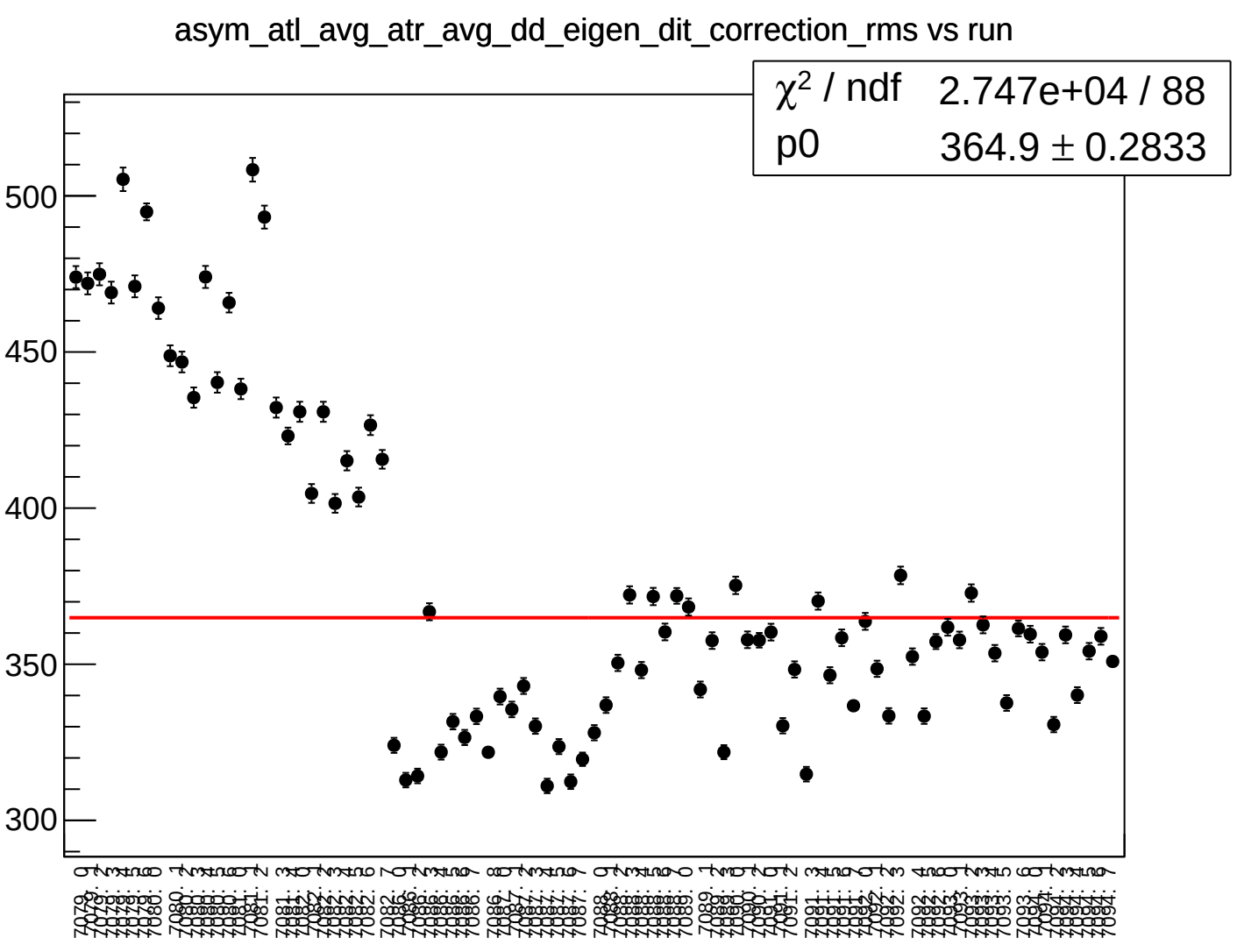

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.06 / 88
p0 −9.487 ± 1366
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −110.4
Std Dev 0
3
2
1
0
−1
−2

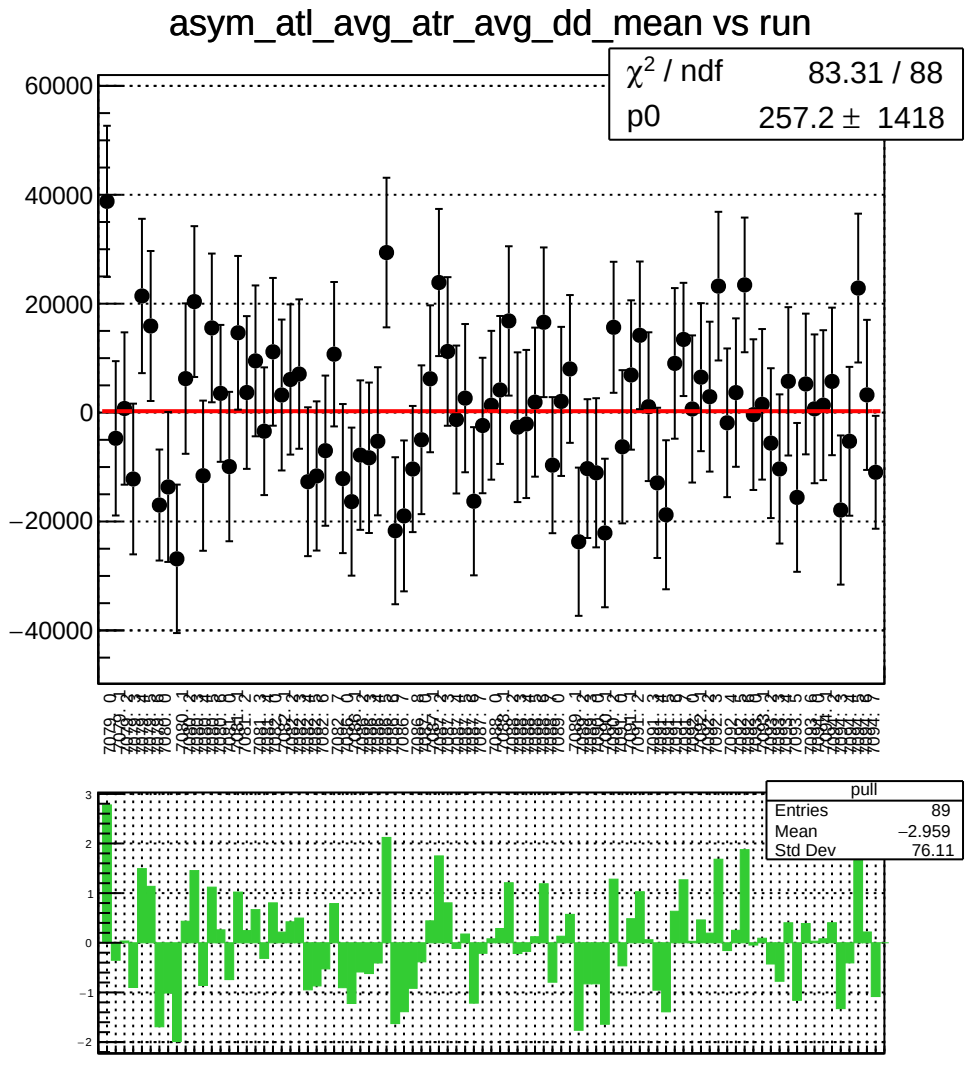

pull1D
Entries 89
Mean 0.003452
Std Dev 0.9947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

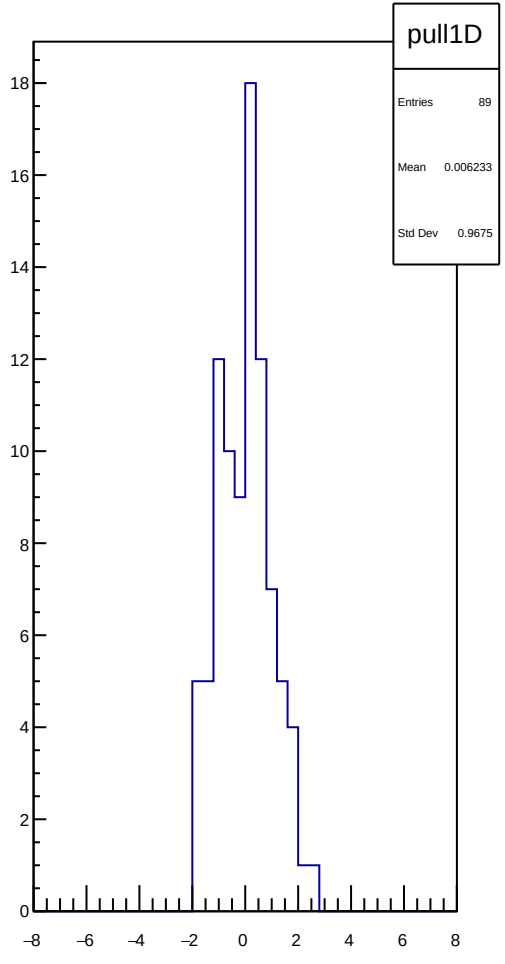

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 157.7 / 88
p0 1254 ± 0.9656
1300
1280
1260
1240
1220

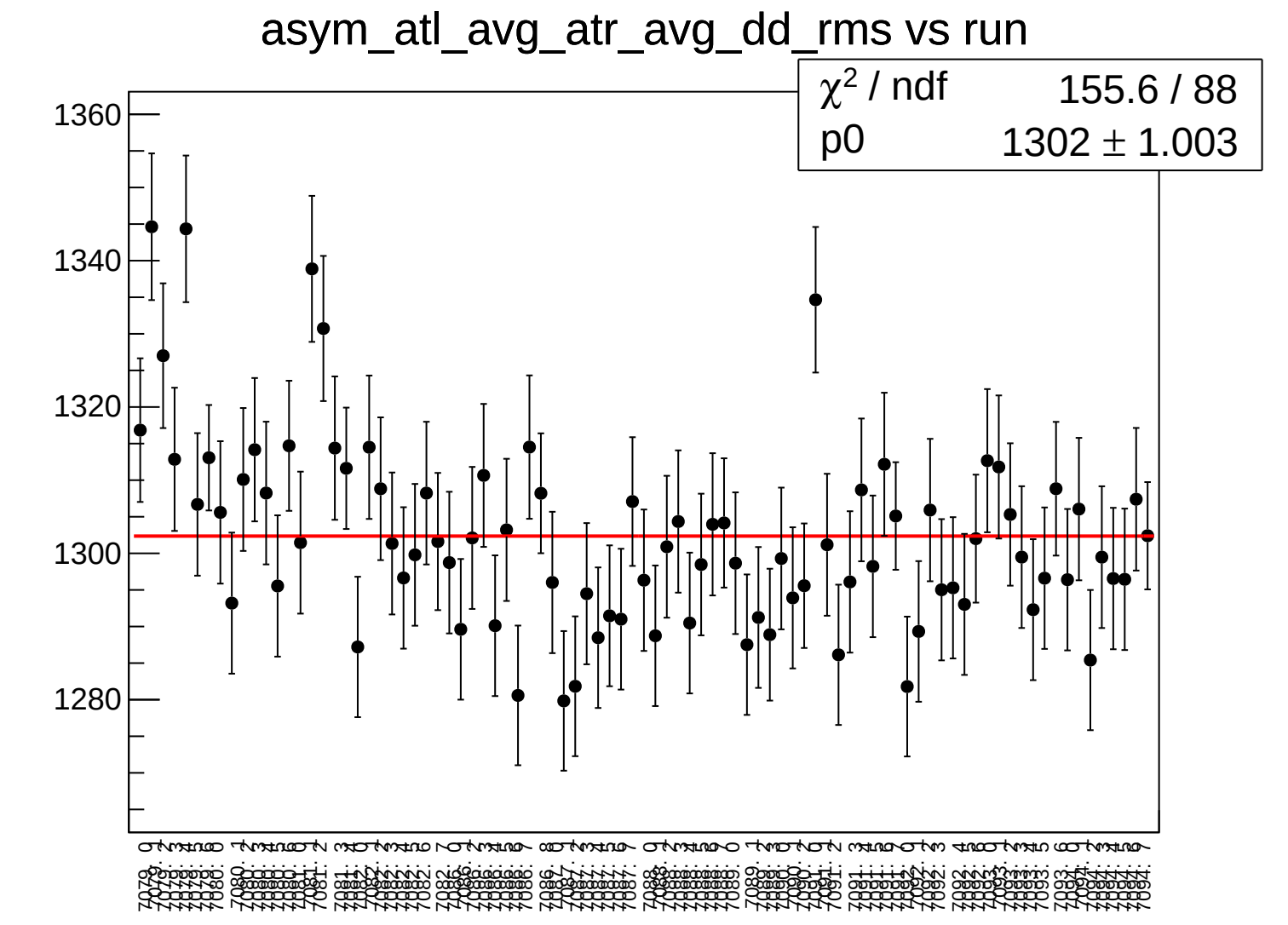

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.51 / 88
p0 −308.1± 400.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 111
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

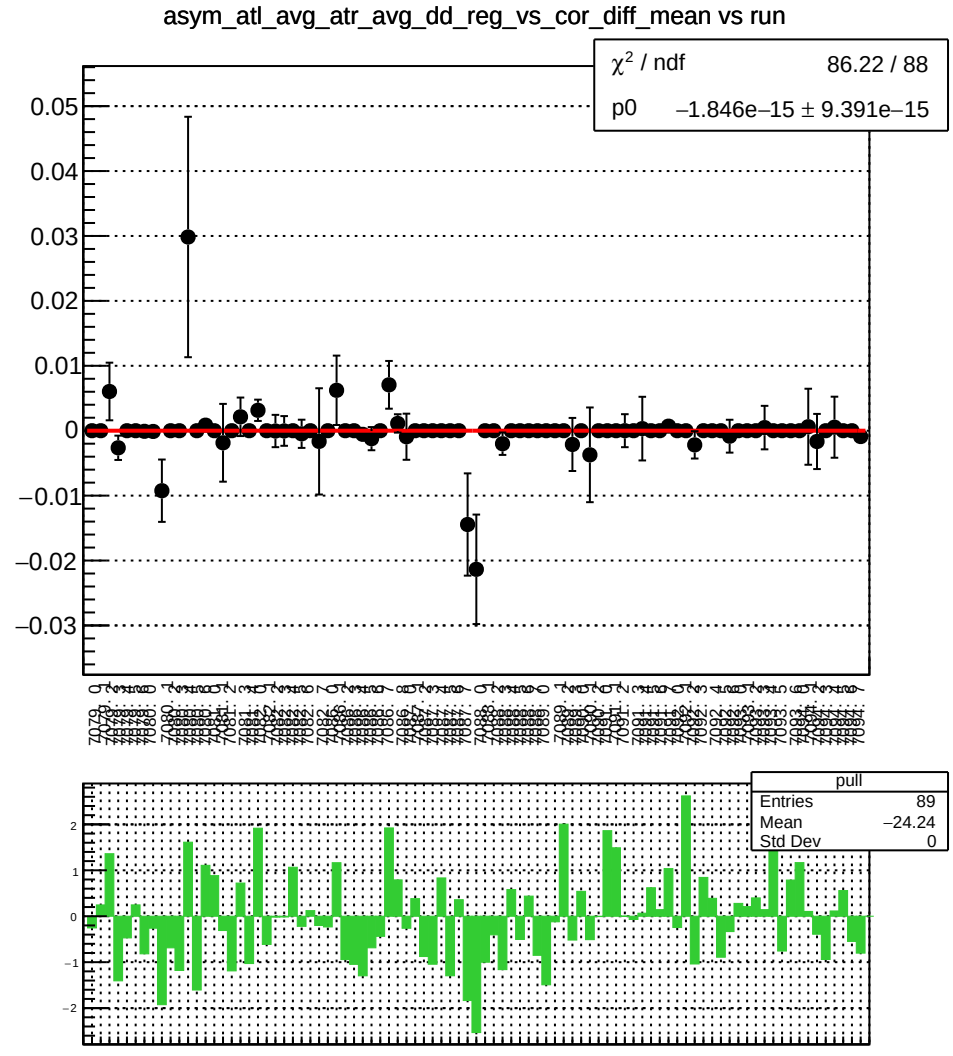

pull1D
Entries 89
Mean −0.006925
Std Dev 0.8644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

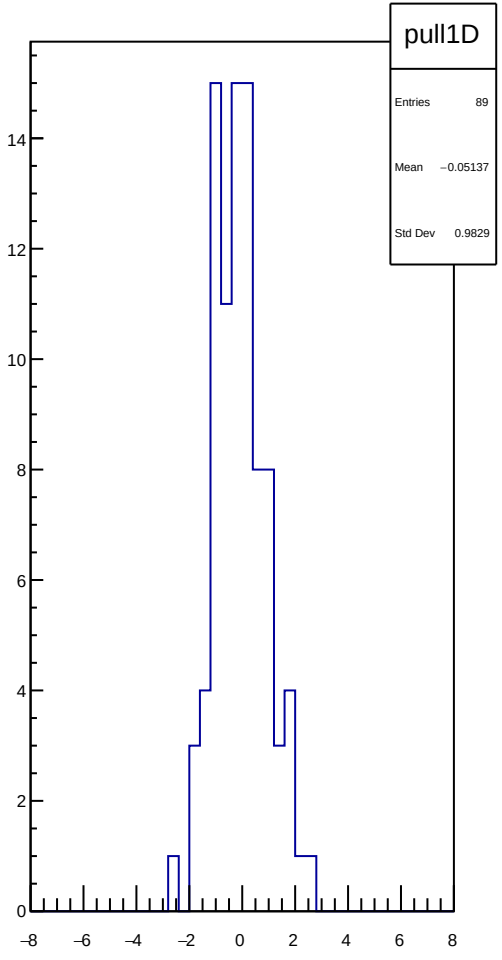

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.747e+04 / 88
p0 364.9 ± 0.2833
500
450
400
350
300

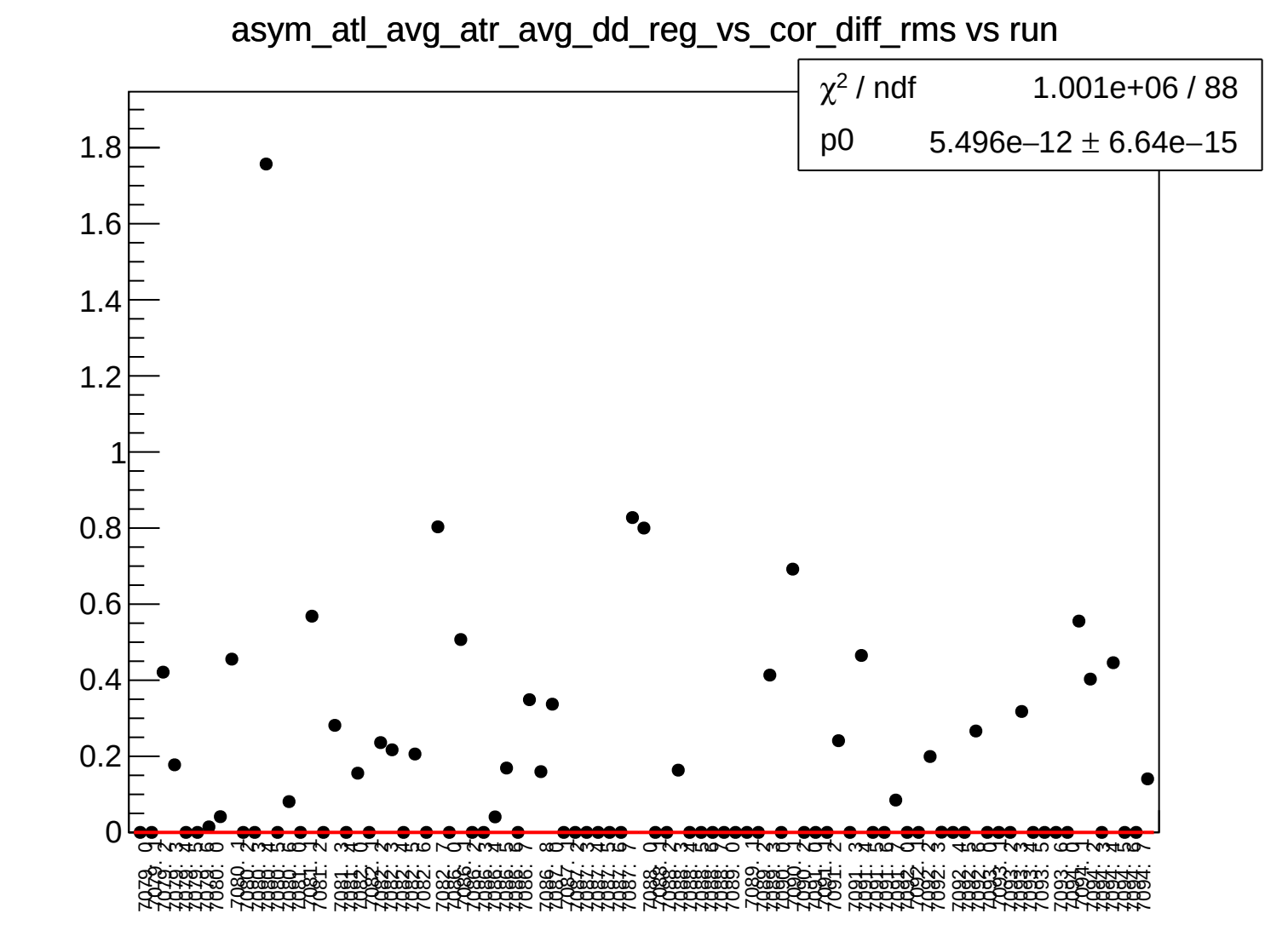

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.31 / 88
p0 257.2 ± 1418
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −2.959
Std Dev 76.11
3
2
1
0
−1
−2

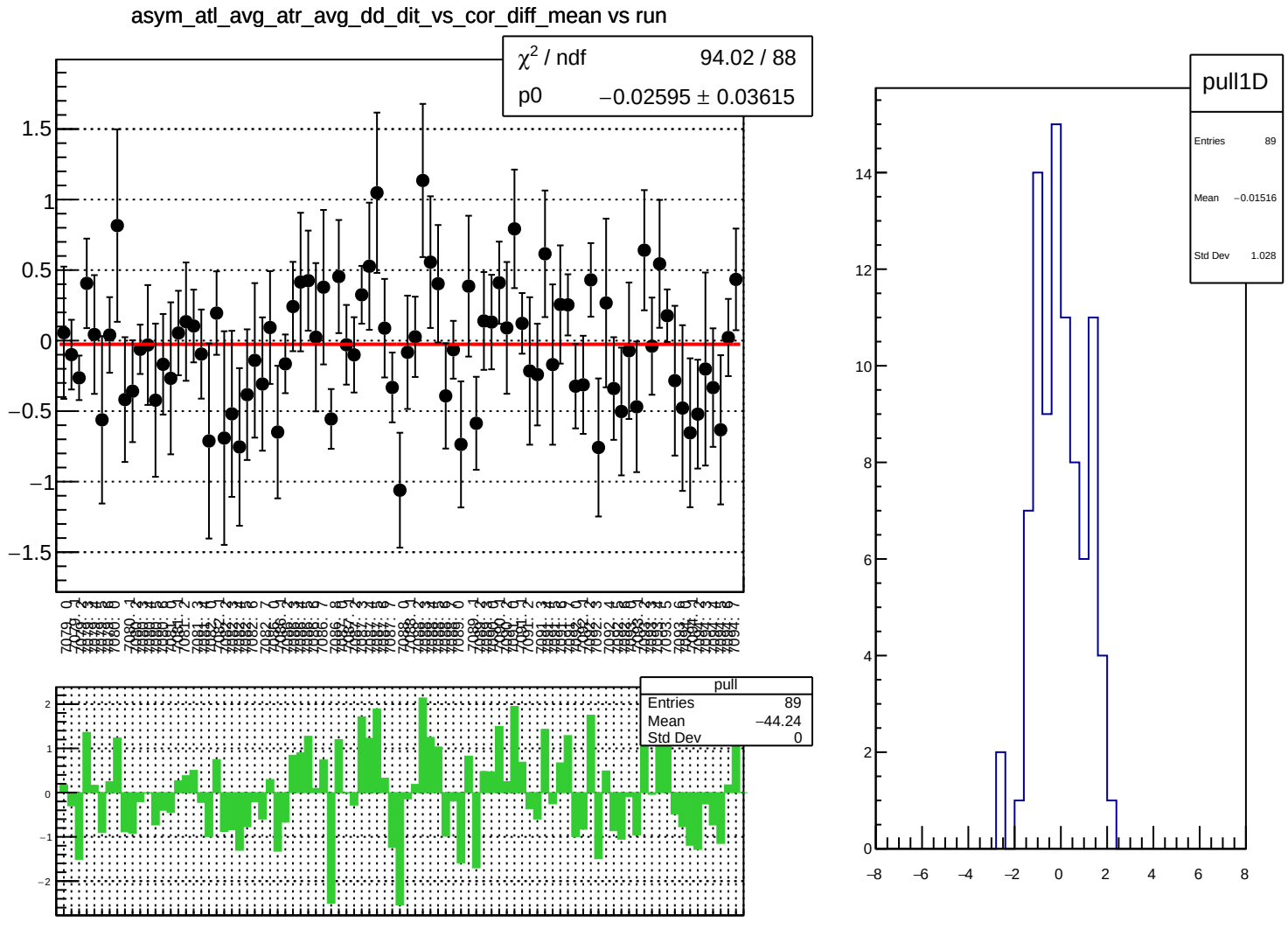

pull1D
Entries 89
Mean 0.006233
Std Dev 0.9675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

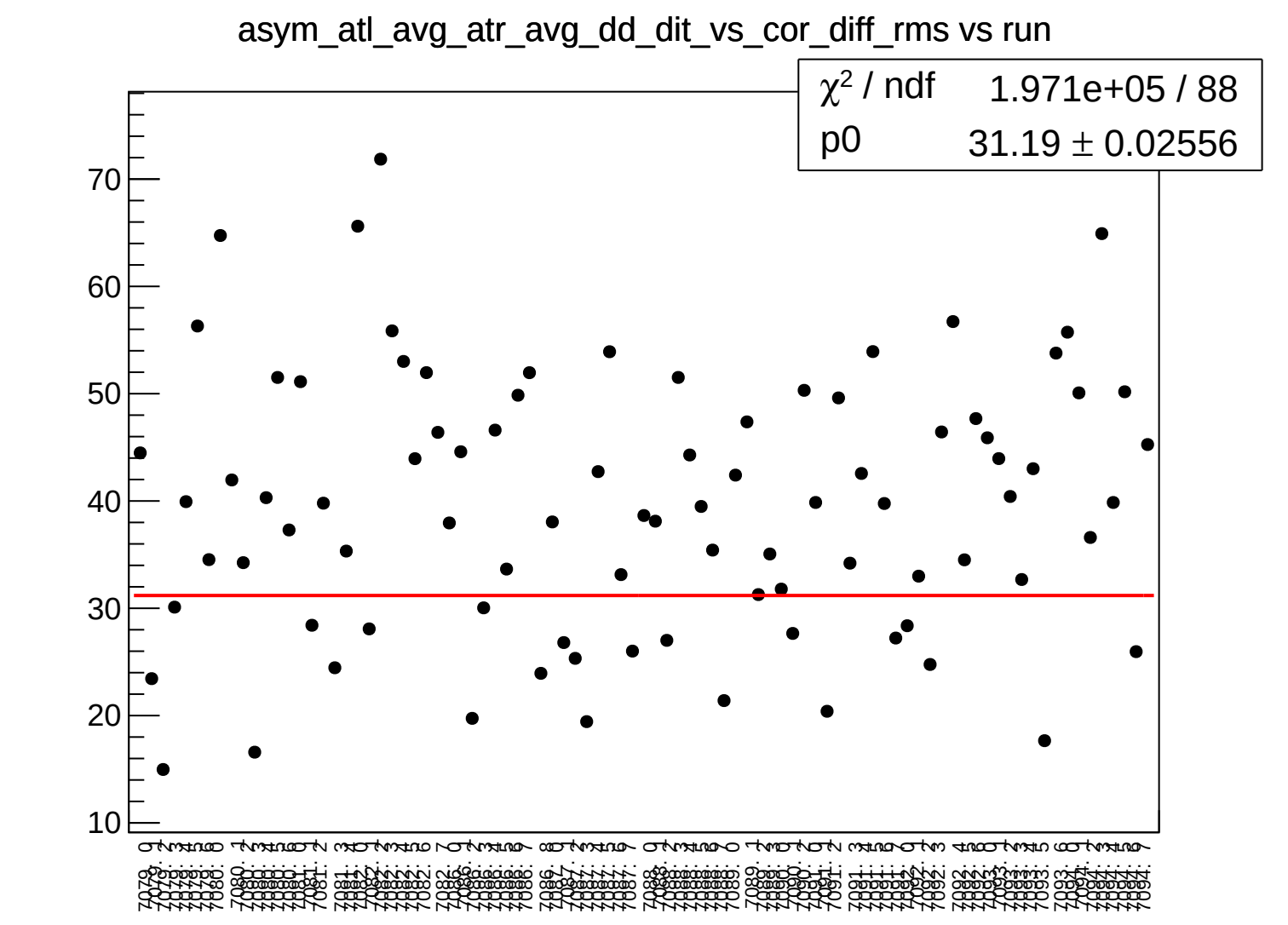

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 155.6 / 88
p0 1302 ± 1.003
1360
1340
1320
1300
1280

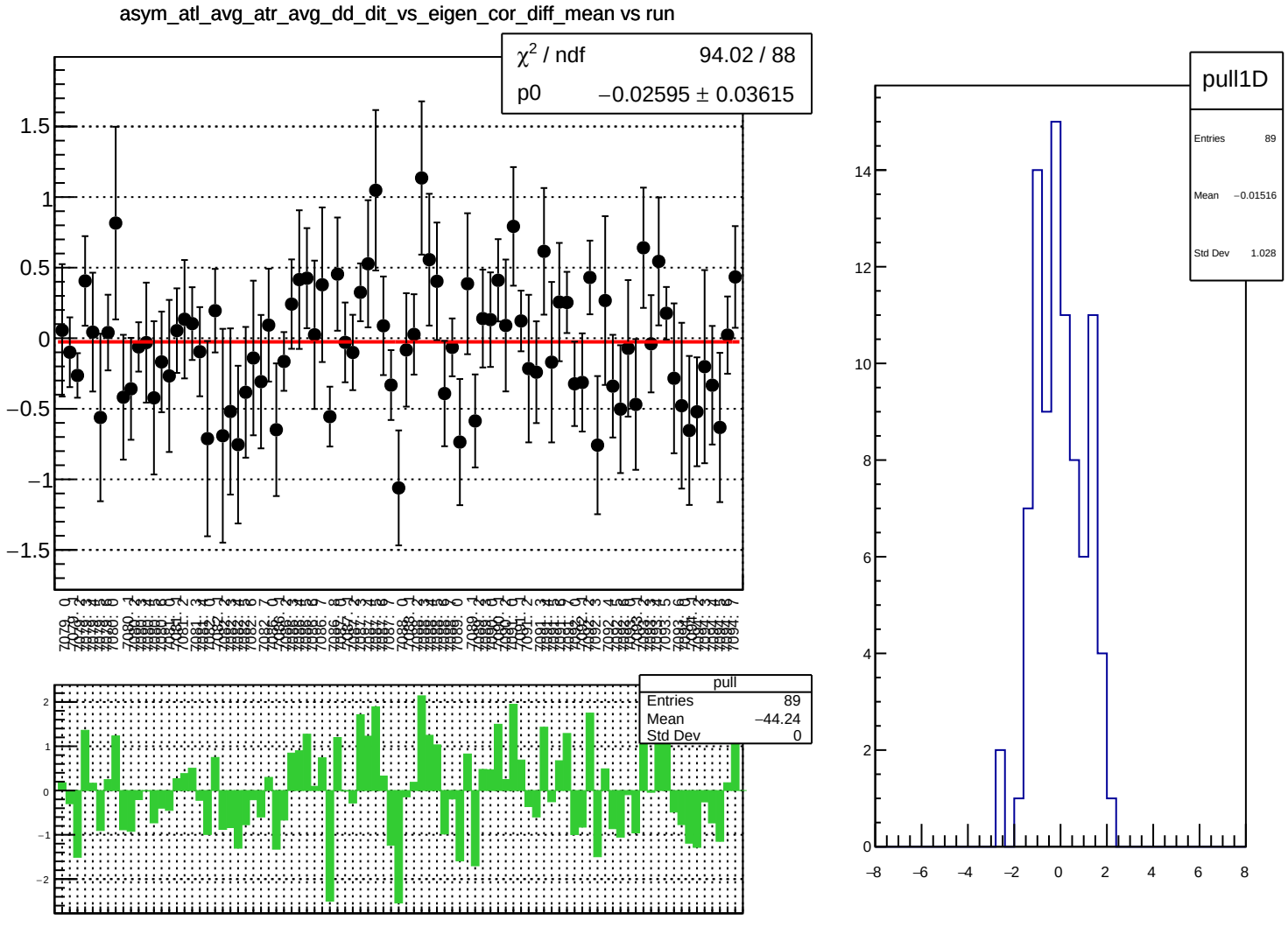

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.22 / 88
p0 −1.846e−15 ± 9.391e−15
pull
Entries 89
Mean −24.24
Std Dev 0

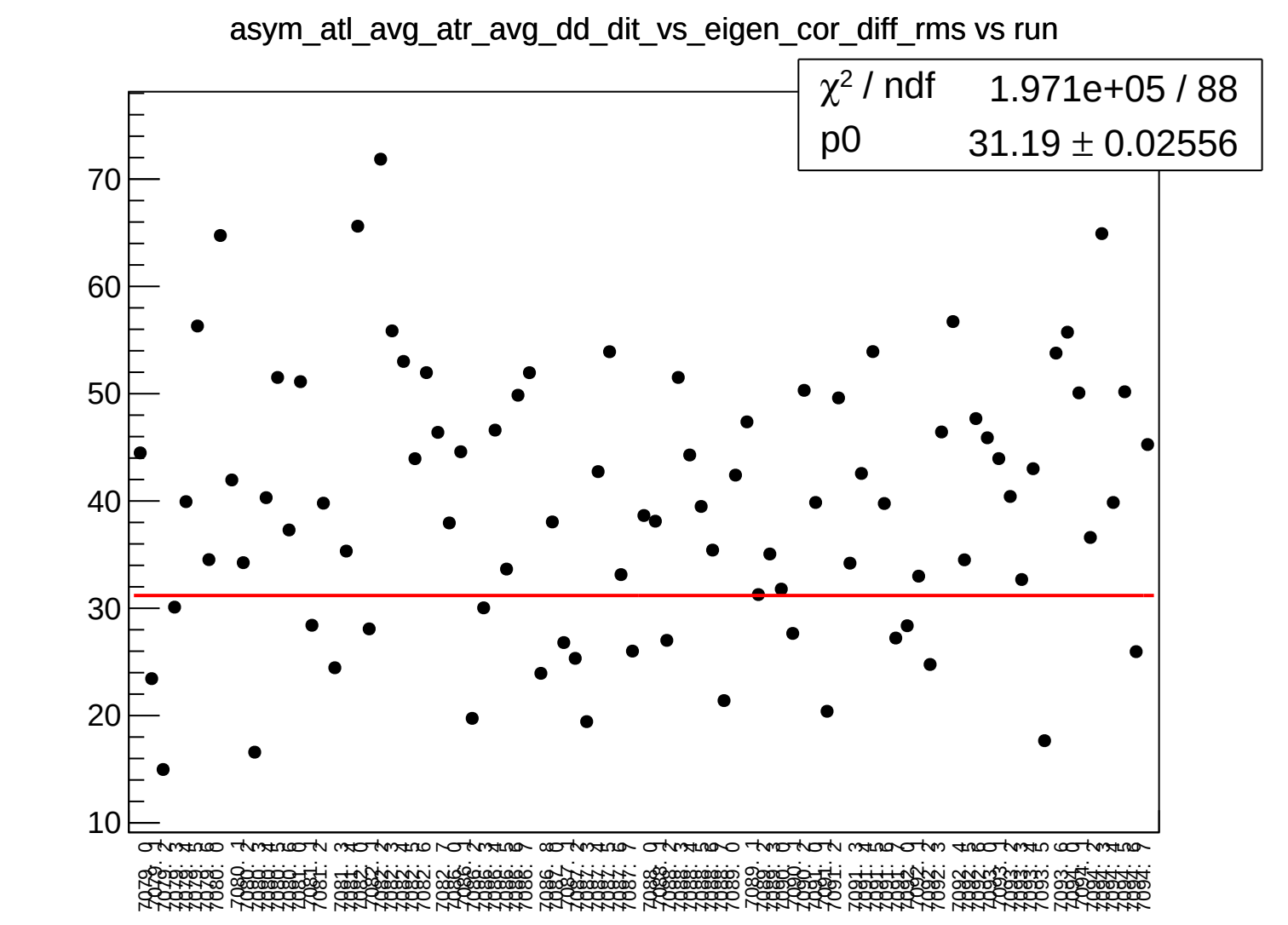

pull1D
Entries 89
Mean −0.05137
Std Dev 0.9829

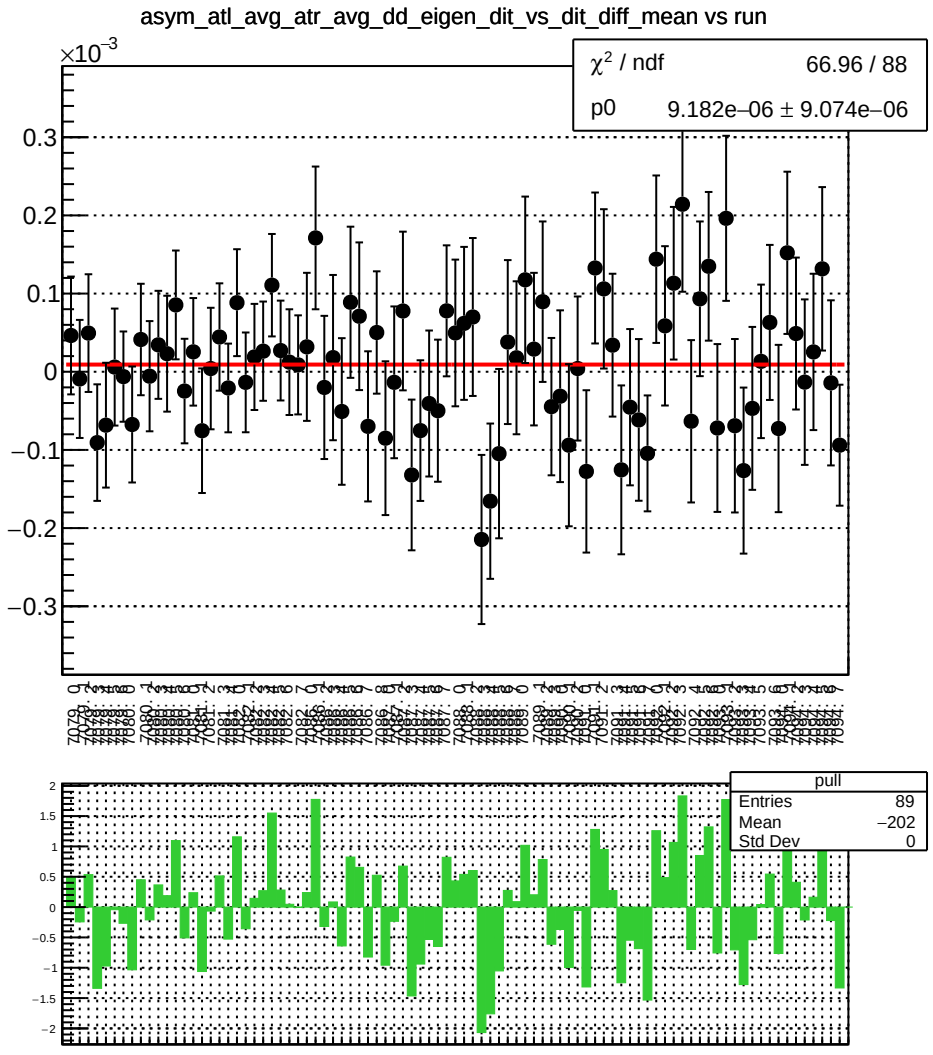

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 88
p0 5.496e−12 ± 6.64e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

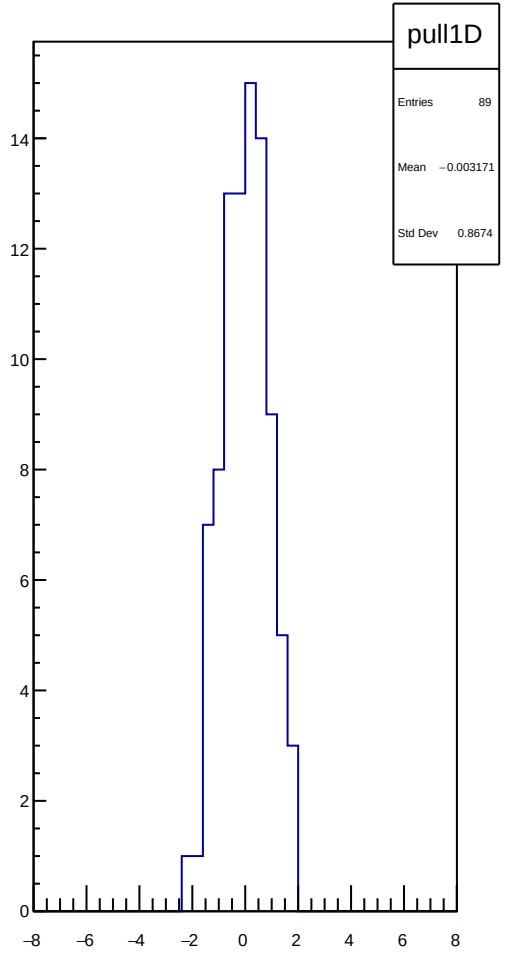

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.02 / 88
p0 −0.02595 ± 0.03615
pull
Entries 89
Mean −44.24
Std Dev 0
pull1D
Entries 89
Mean −0.01516
Std Dev 1.028

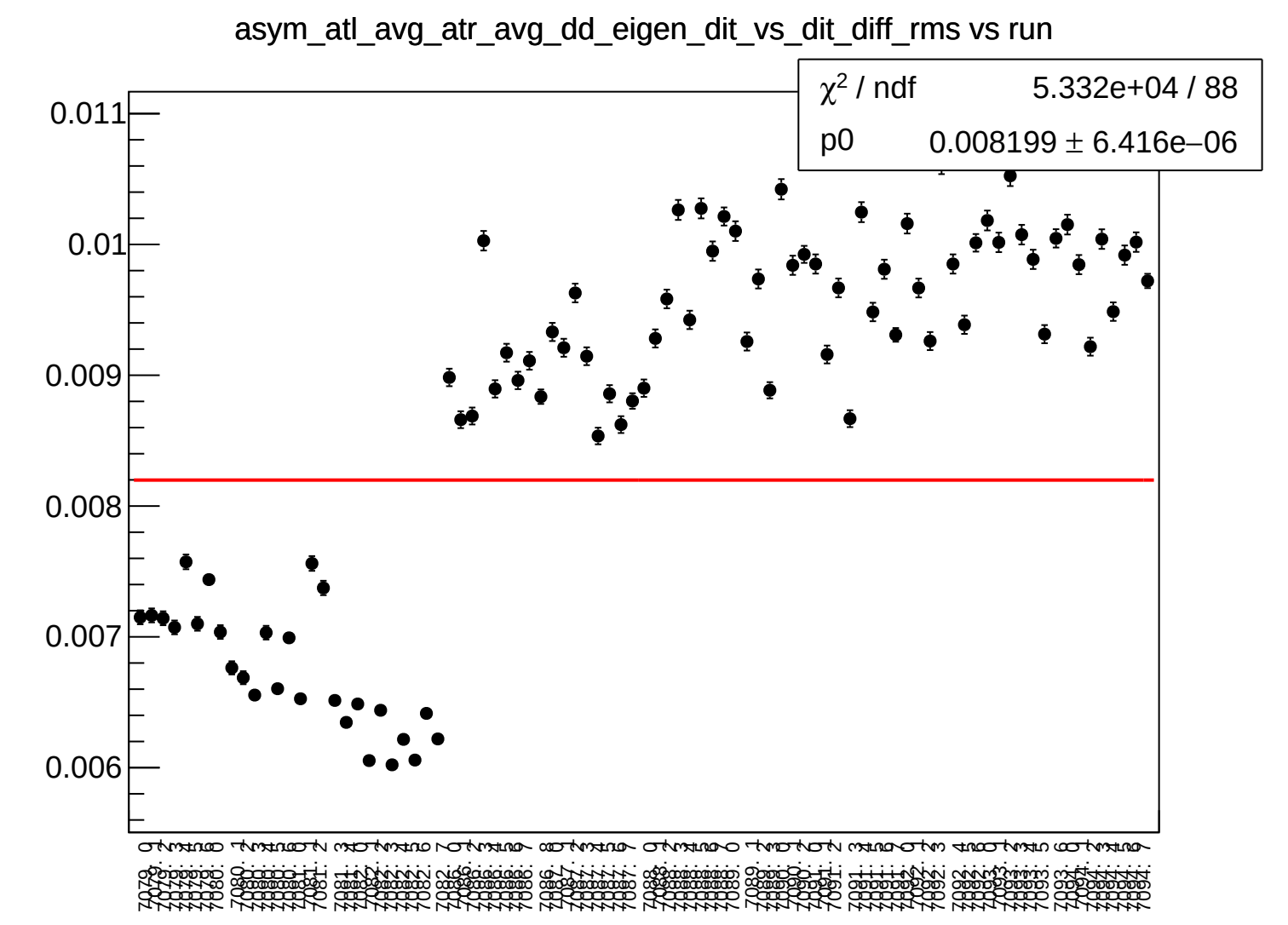

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 88
p0 31.19 ± 0.02556
70
60
50
40
30
20
10

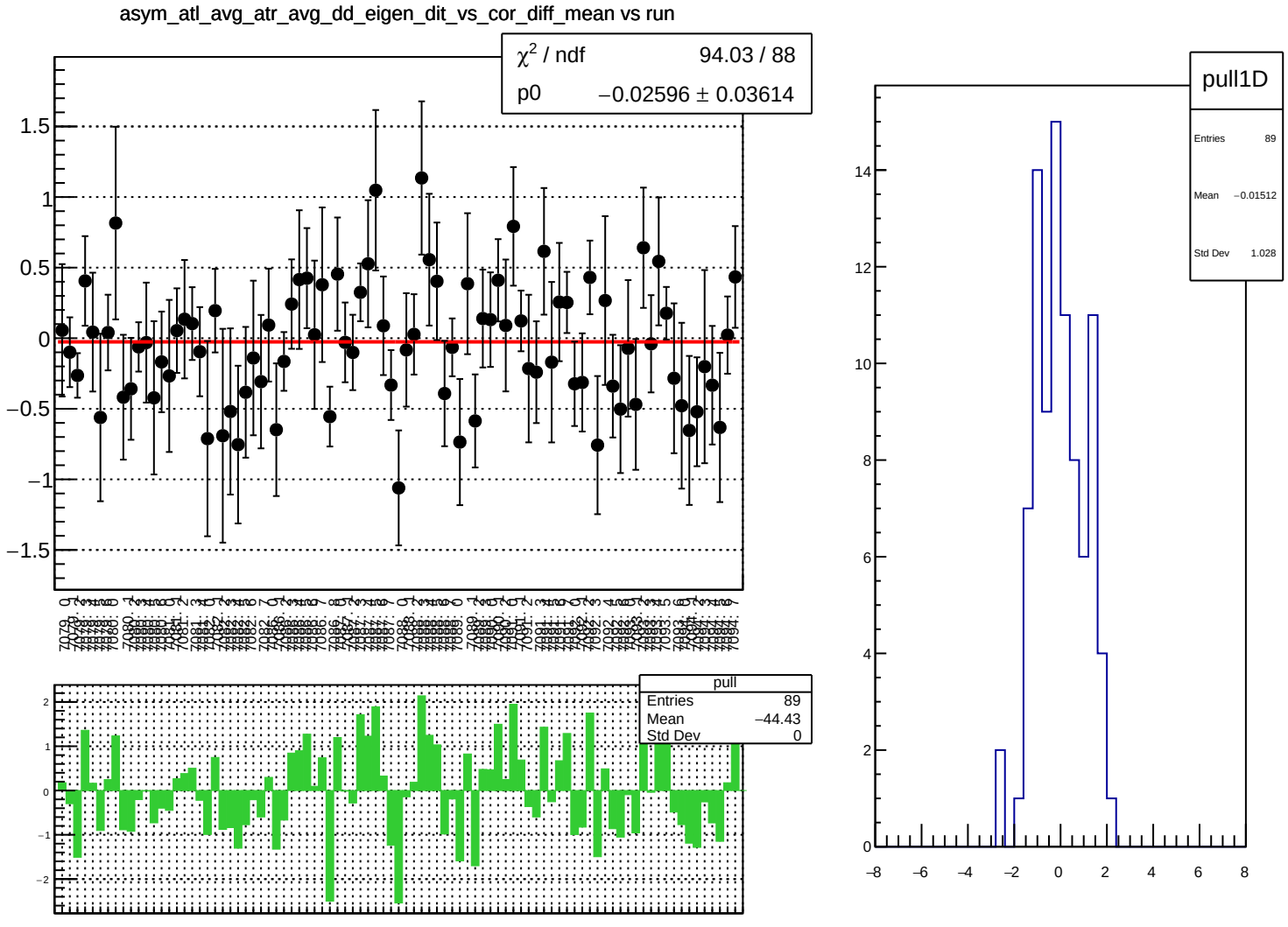

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.02 / 88
p0 −0.02595 ± 0.03615
pull
Entries 89
Mean −44.24
Std Dev 0
pull1D
Entries 89
Mean −0.01516
Std Dev 1.028

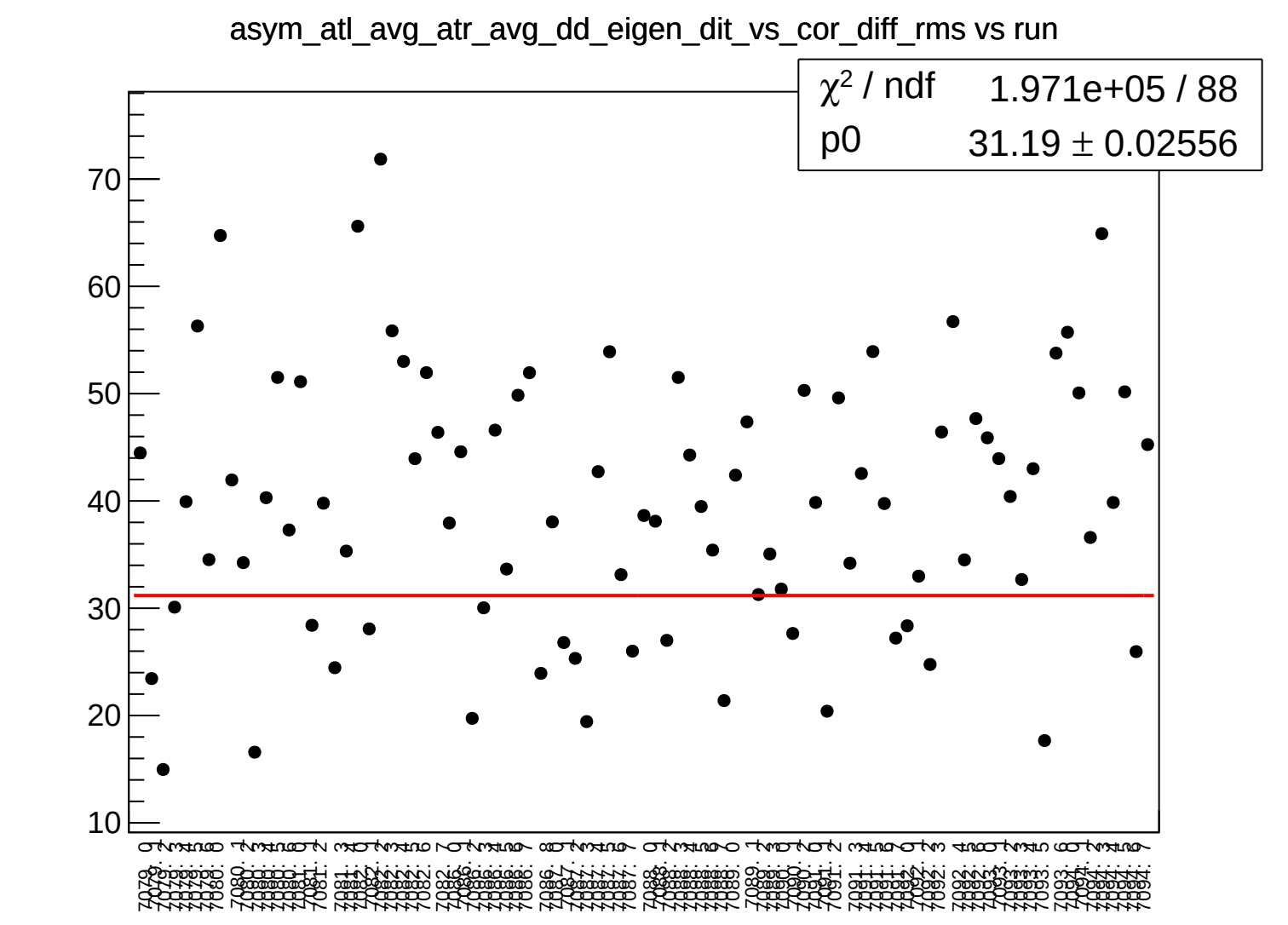

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 88
p0 31.19 ± 0.02556
70
60
50
40
30
20
10

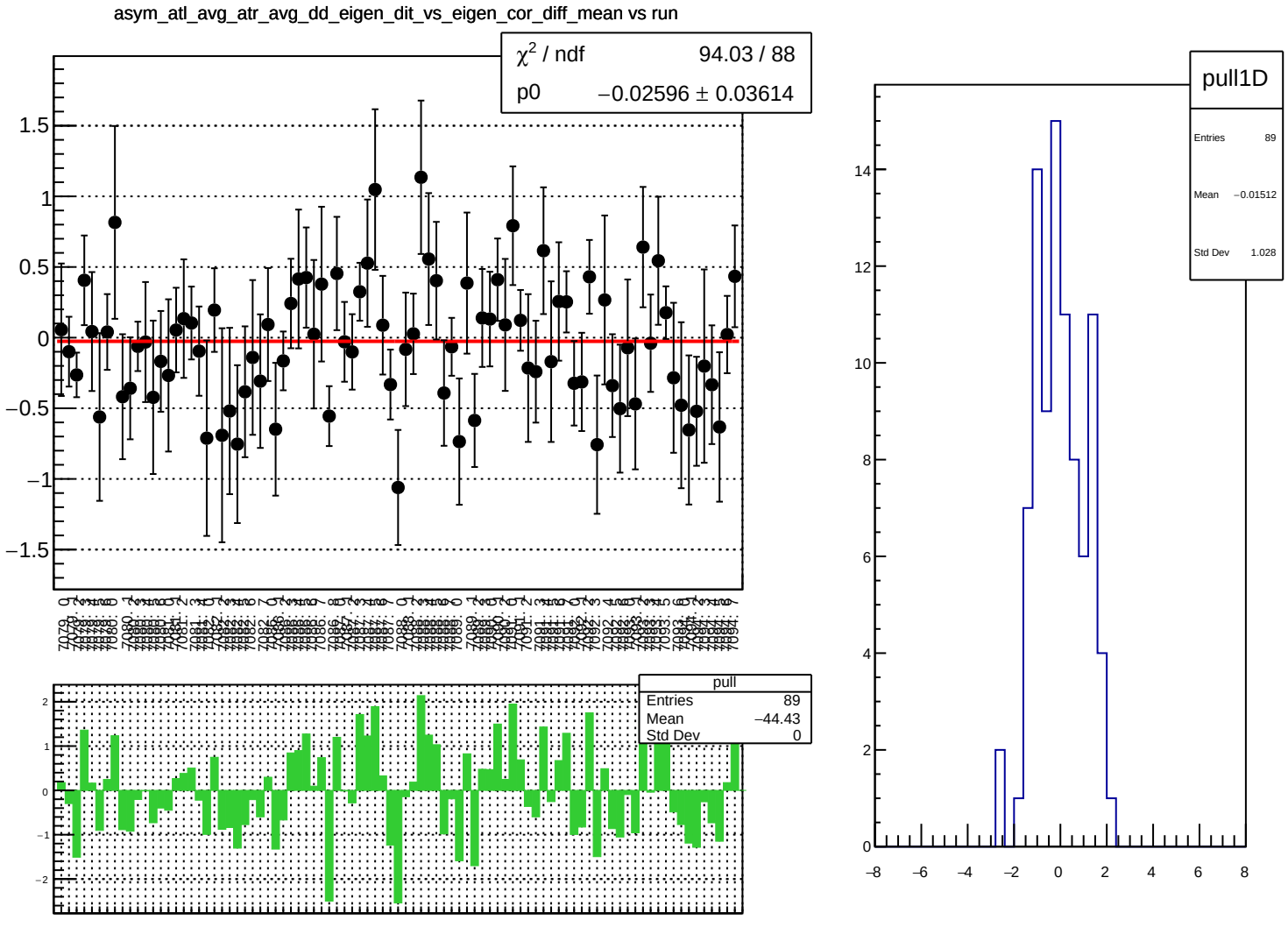

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.96 / 88
p0 9.182e−06 ± 9.074e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean −202
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

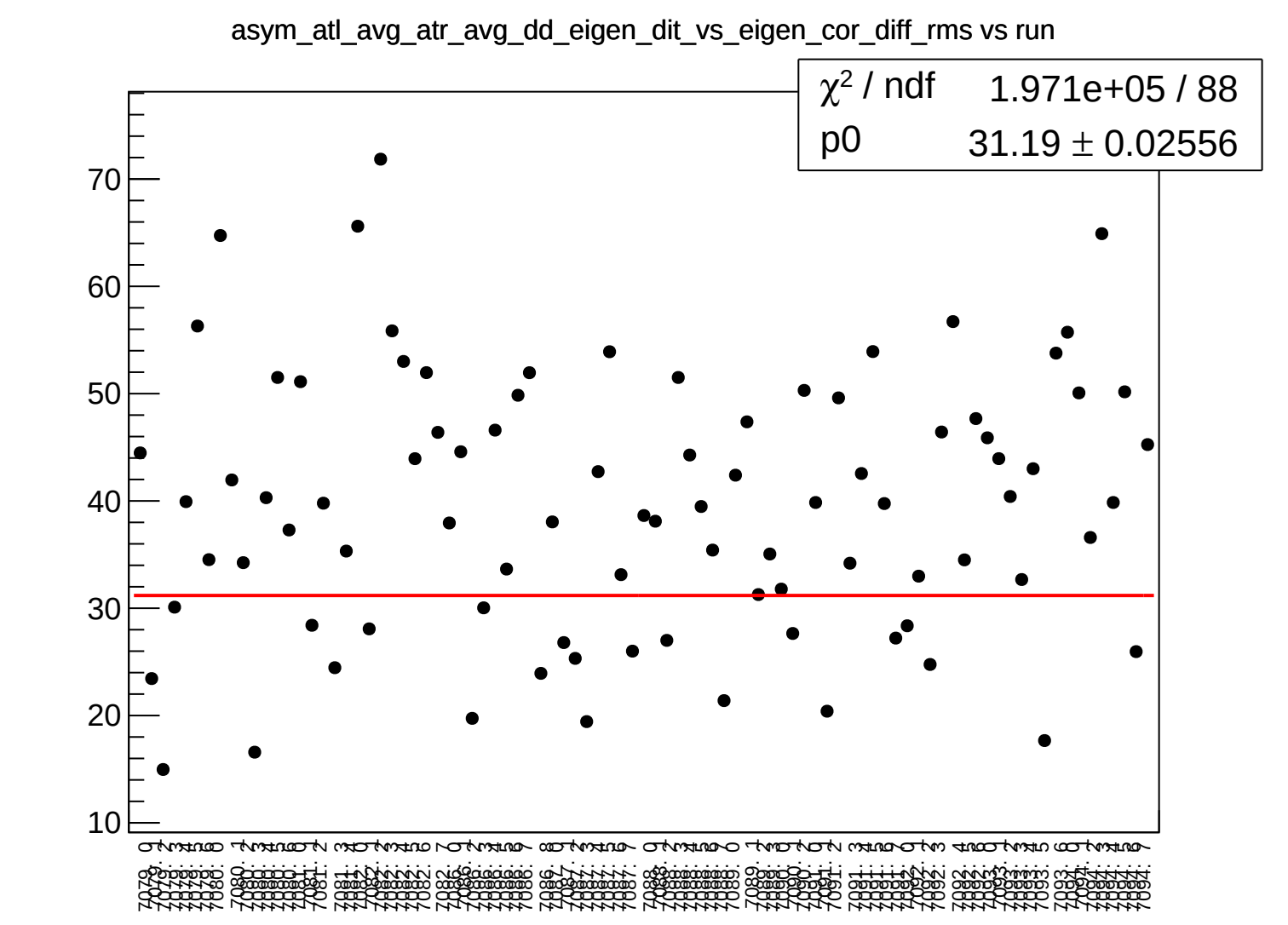

pull1D
Entries 89
Mean −0.003171
Std Dev 0.8674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

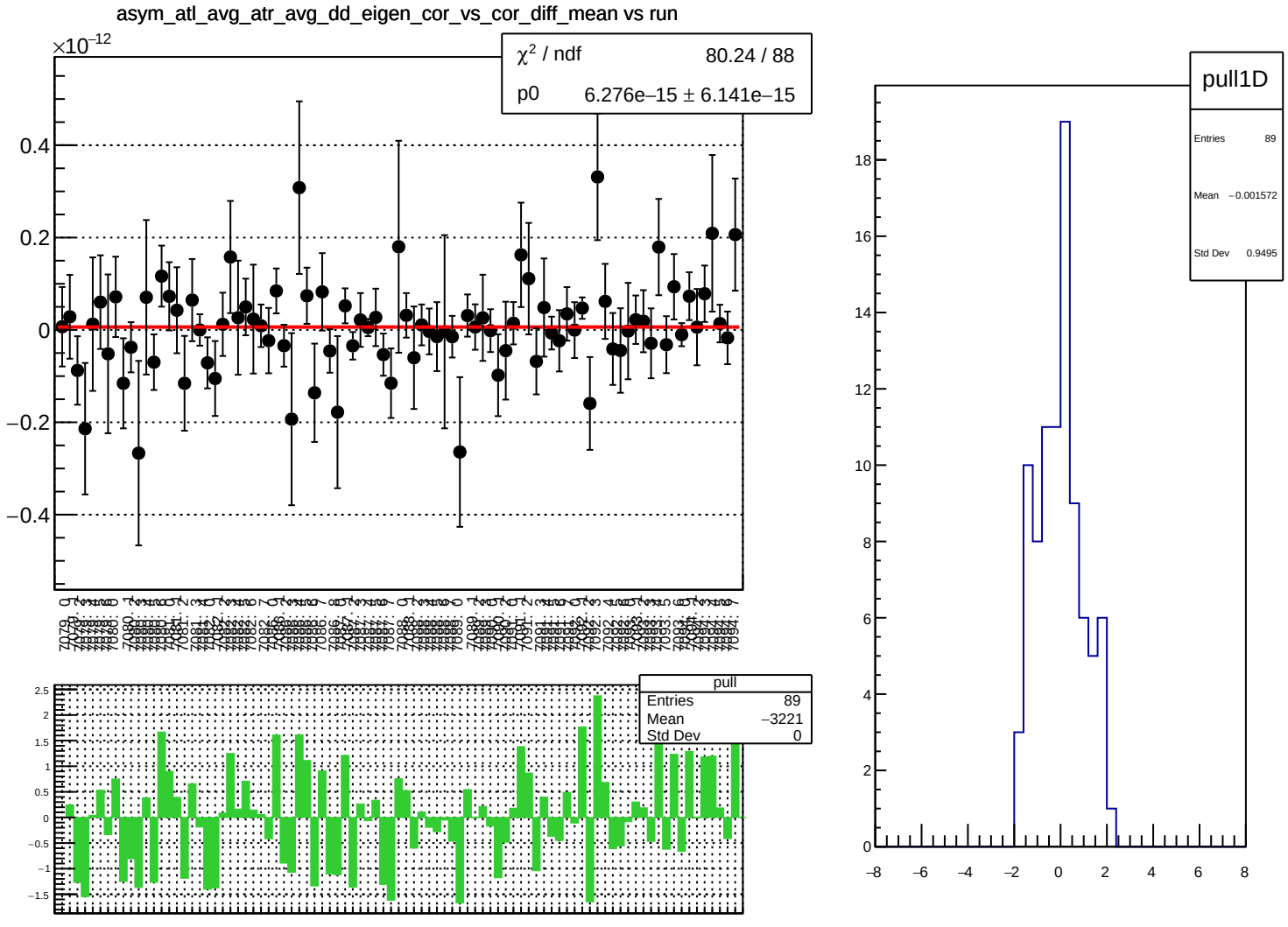

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.332e+04 / 88
p0 0.008199 ± 6.416e−06
0.011
0.01
0.009
0.008
0.007
0.006

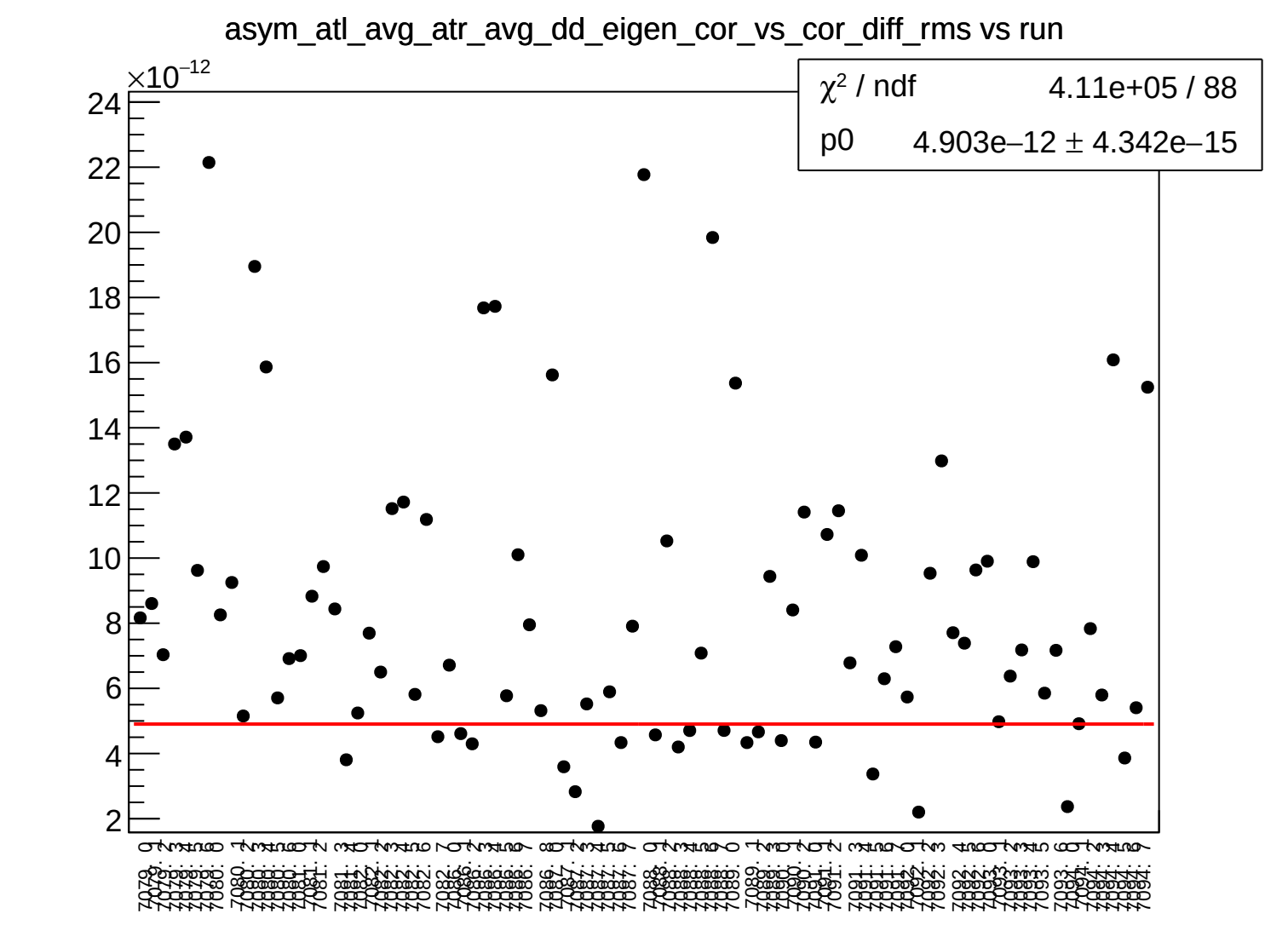

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.03 / 88
p0 −0.02596 ± 0.03614
pull
Entries 89
Mean −44.43
Std Dev 0
pull1D
Entries 89
Mean −0.01512
Std Dev 1.028

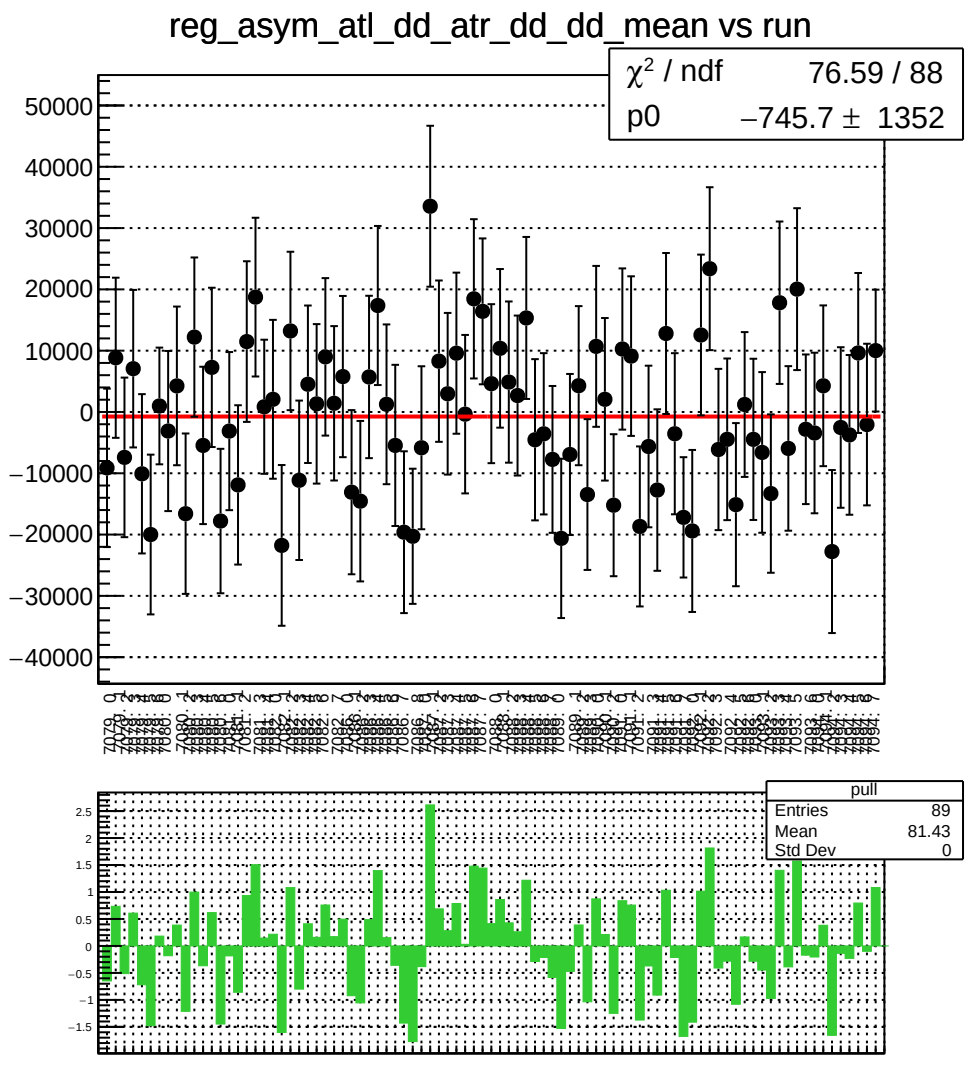

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 88
p0 31.19 ± 0.02556
70
60
50
40
30
20
10

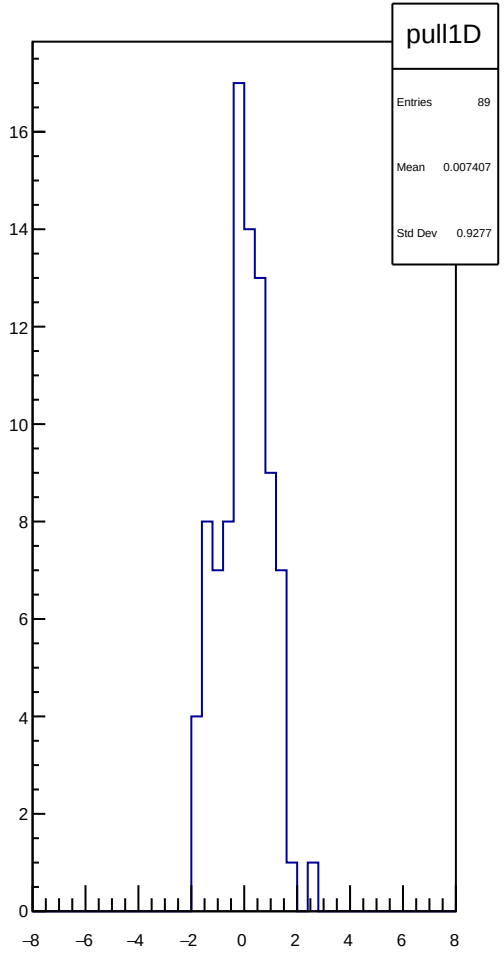

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.03 / 88
p0 −0.02596 ± 0.03614
pull
Entries 89
Mean −44.43
Std Dev 0
pull1D
Entries 89
Mean −0.01512
Std Dev 1.028

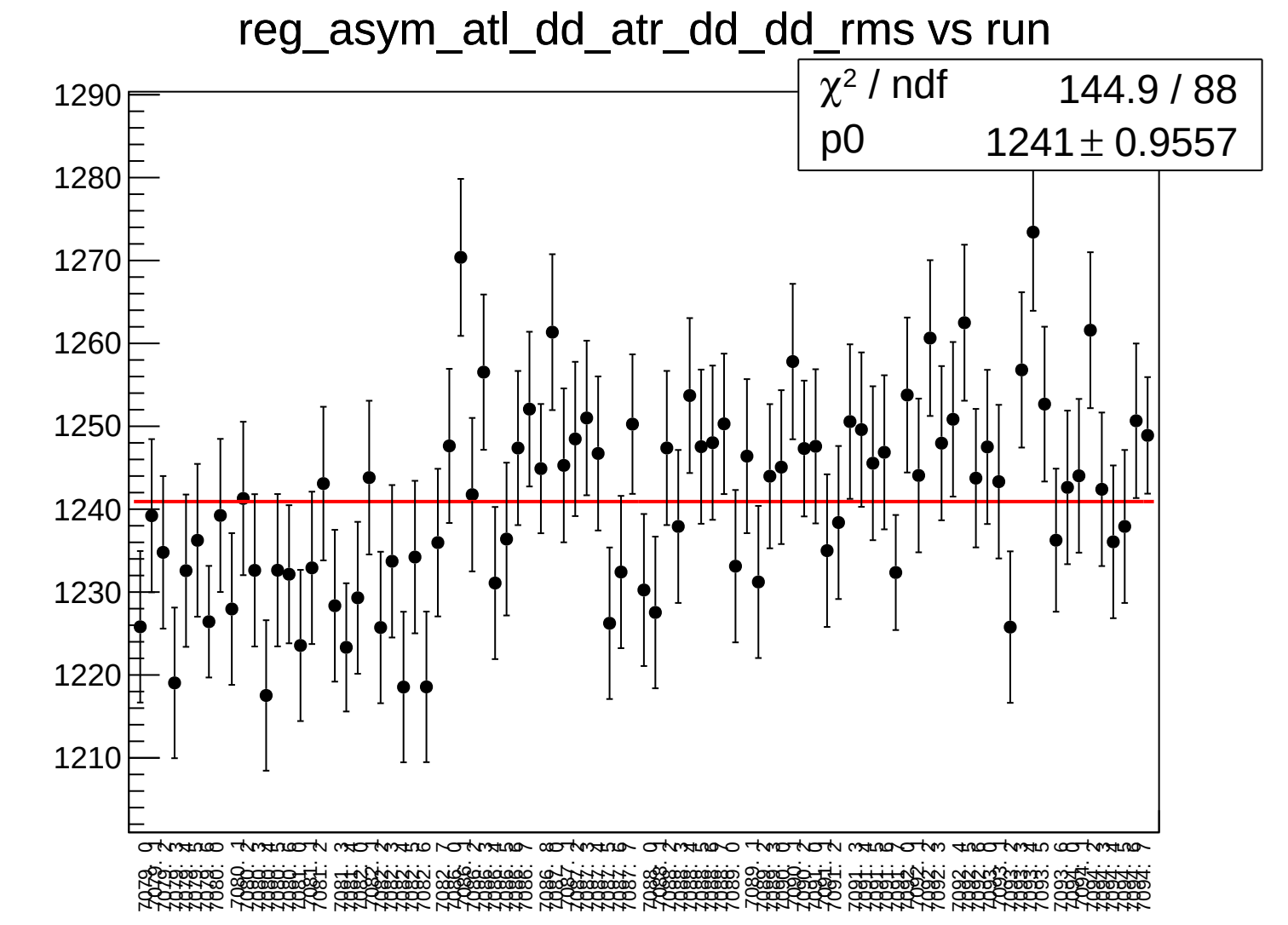

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 88
p0 31.19 ± 0.02556
70
60
50
40
30
20
10

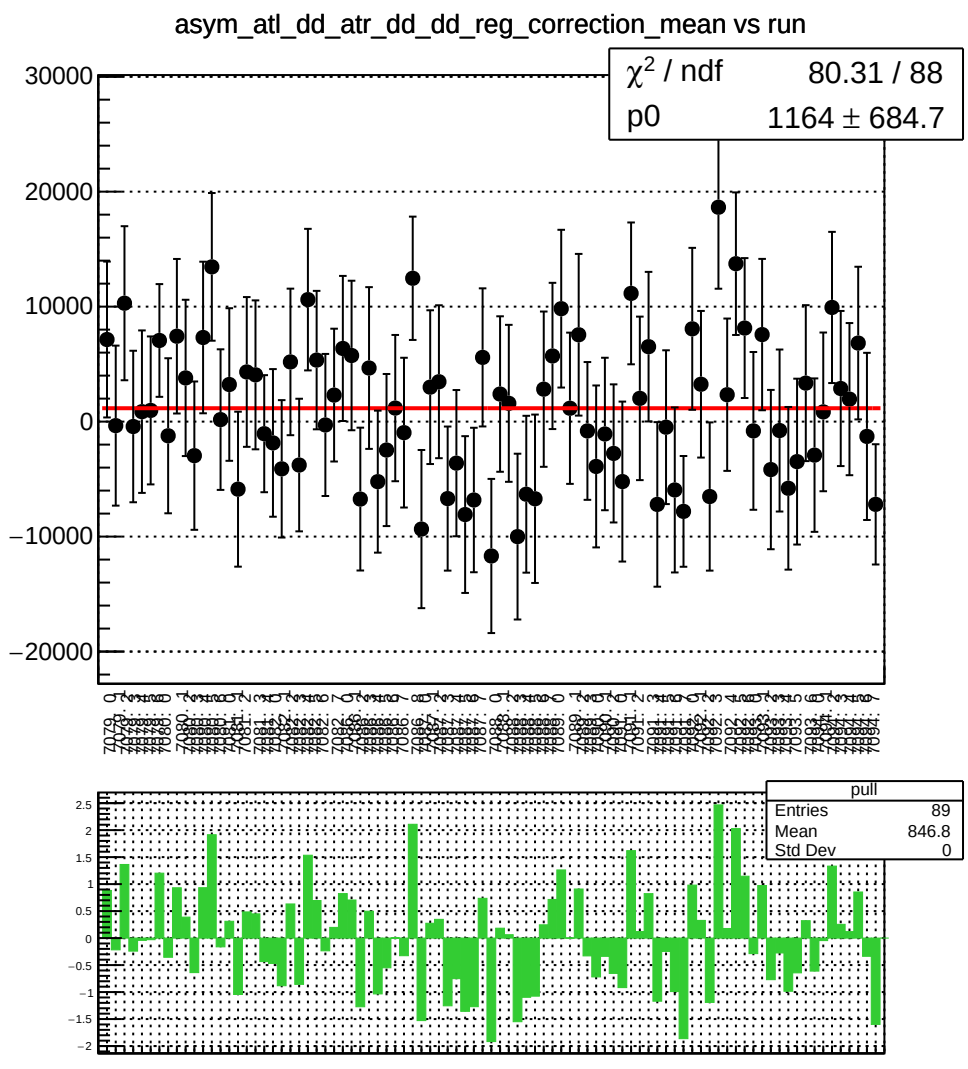

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.24 / 88
p0 6.276e−15 ± 6.141e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean −3221
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.001572
Std Dev 0.9495
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

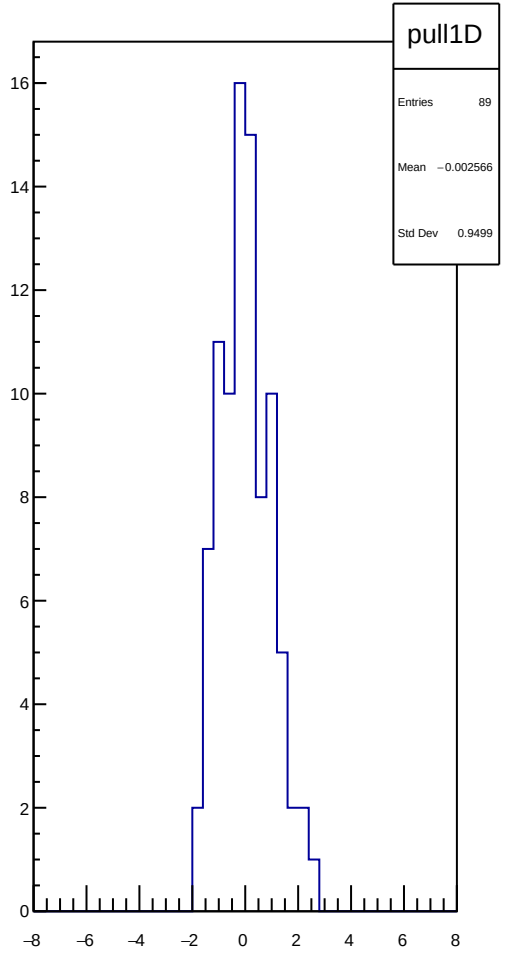

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.11e+05 / 88
p0 4.903e−12 ± 4.342e−15
24
22
20
18
16
14
12
10
8
6
4
2

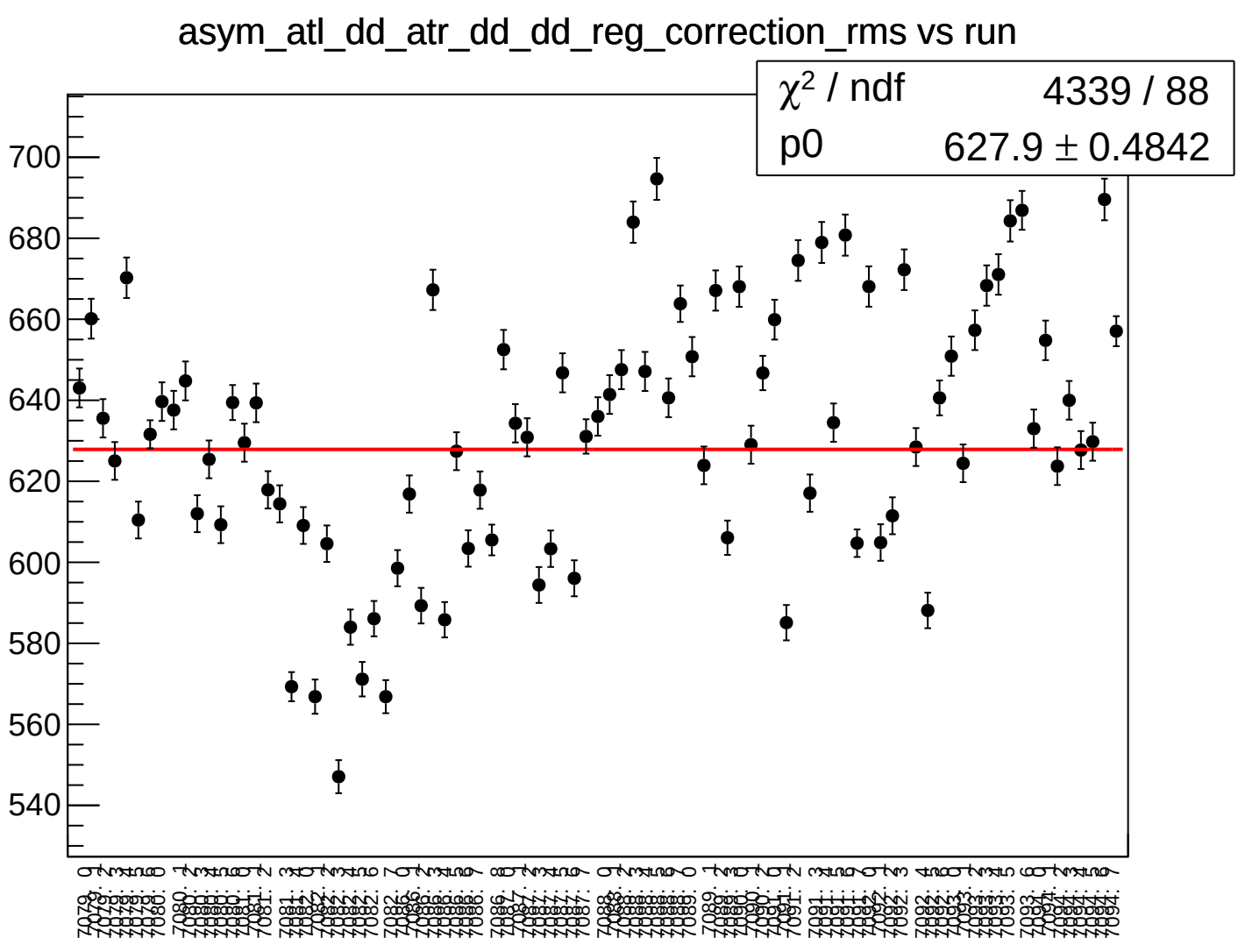

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 76.59 / 88
p0 −745.7 ± 1352
pull
Entries 89
Mean 81.43
Std Dev 0

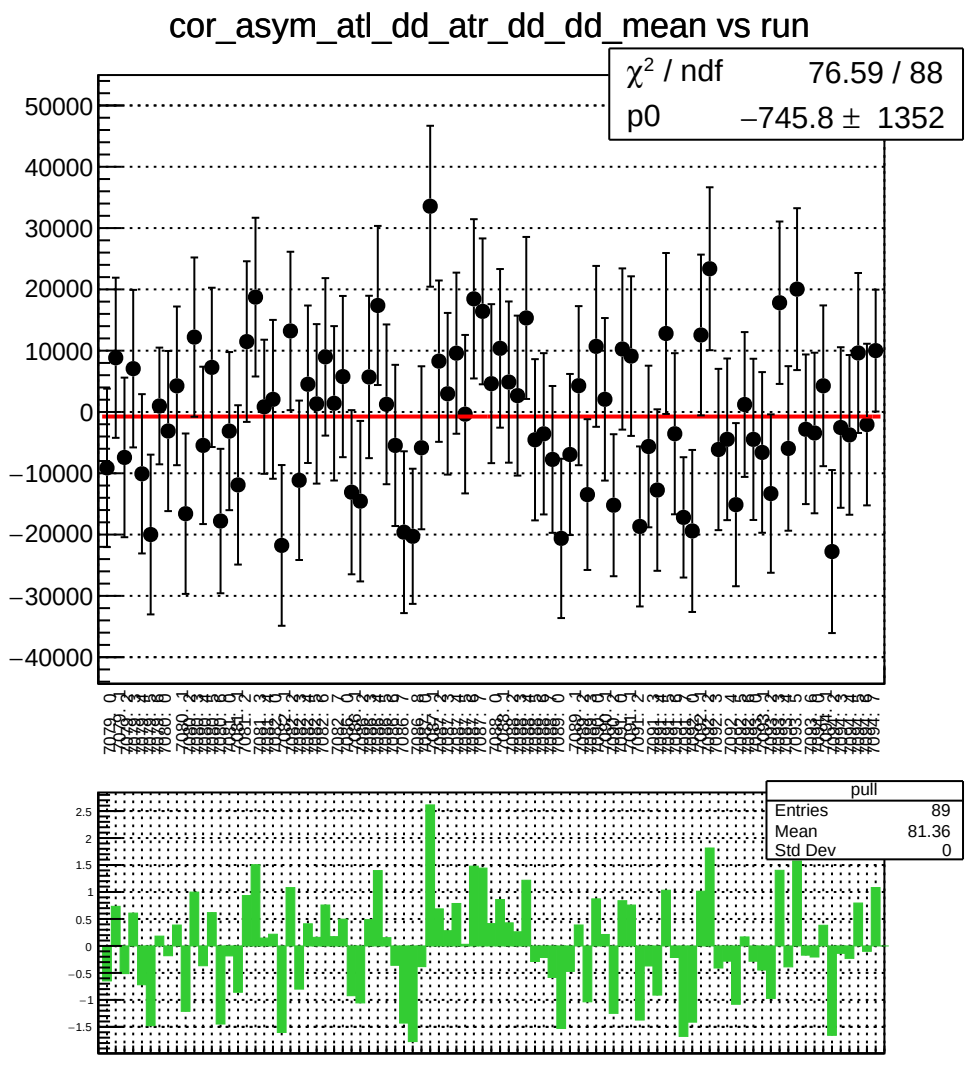

pull1D
Entries 89
Mean 0.007407
Std Dev 0.9277

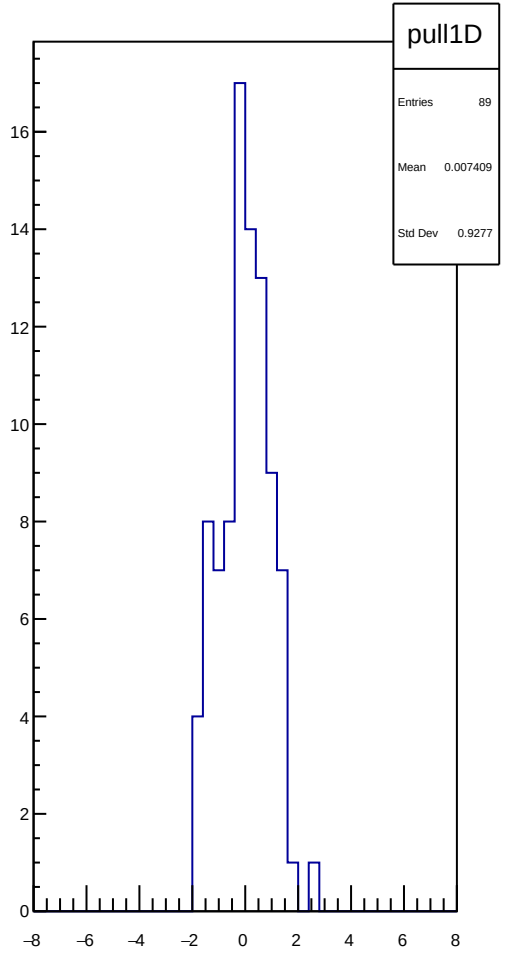

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 144.9 / 88
p0 1241 ± 0.9557
1290
1280
1270
1260
1250
1240
1230
1220
1210

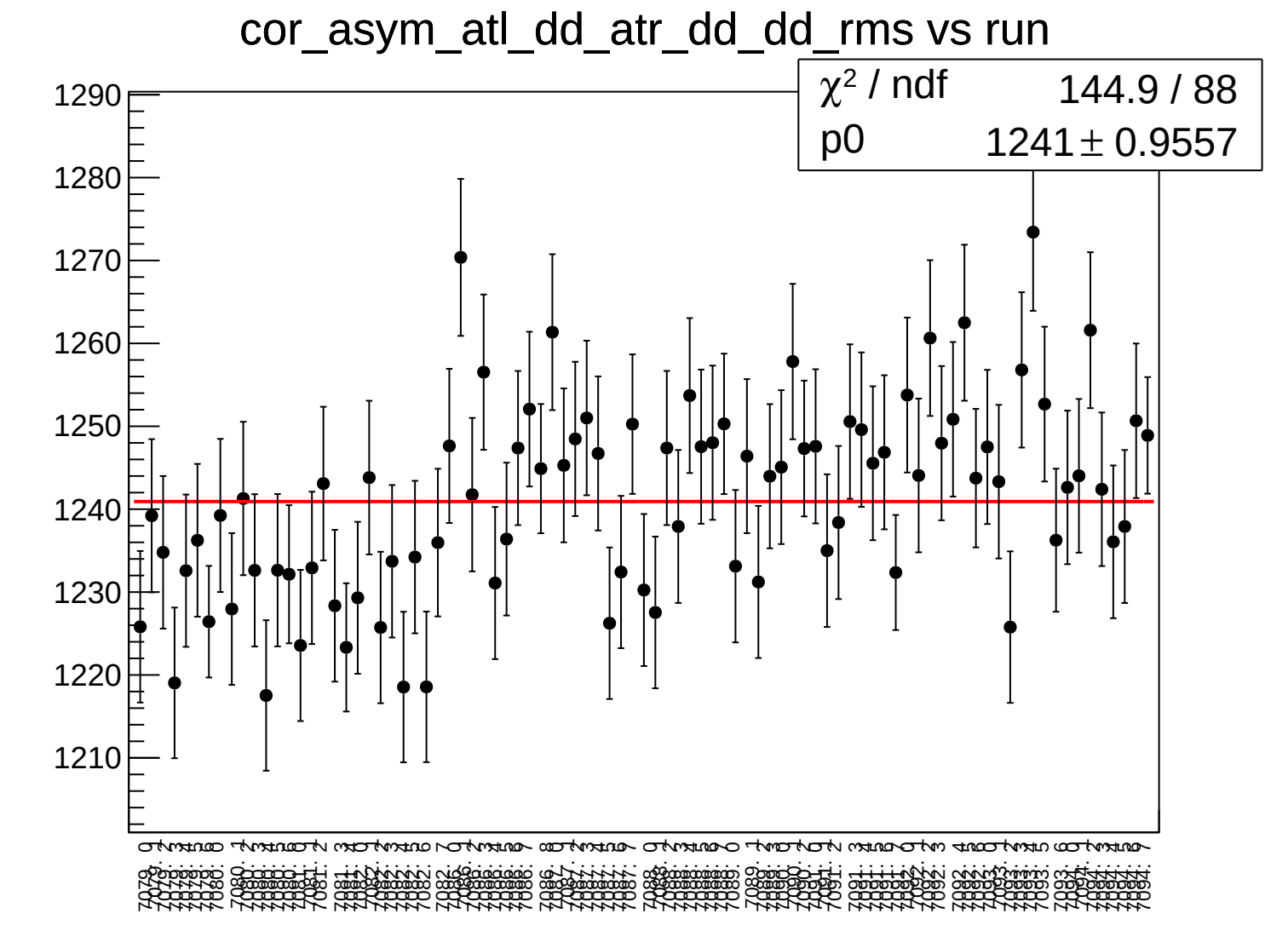

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 80.31 / 88
p0 1164 ± 684.7
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 846.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

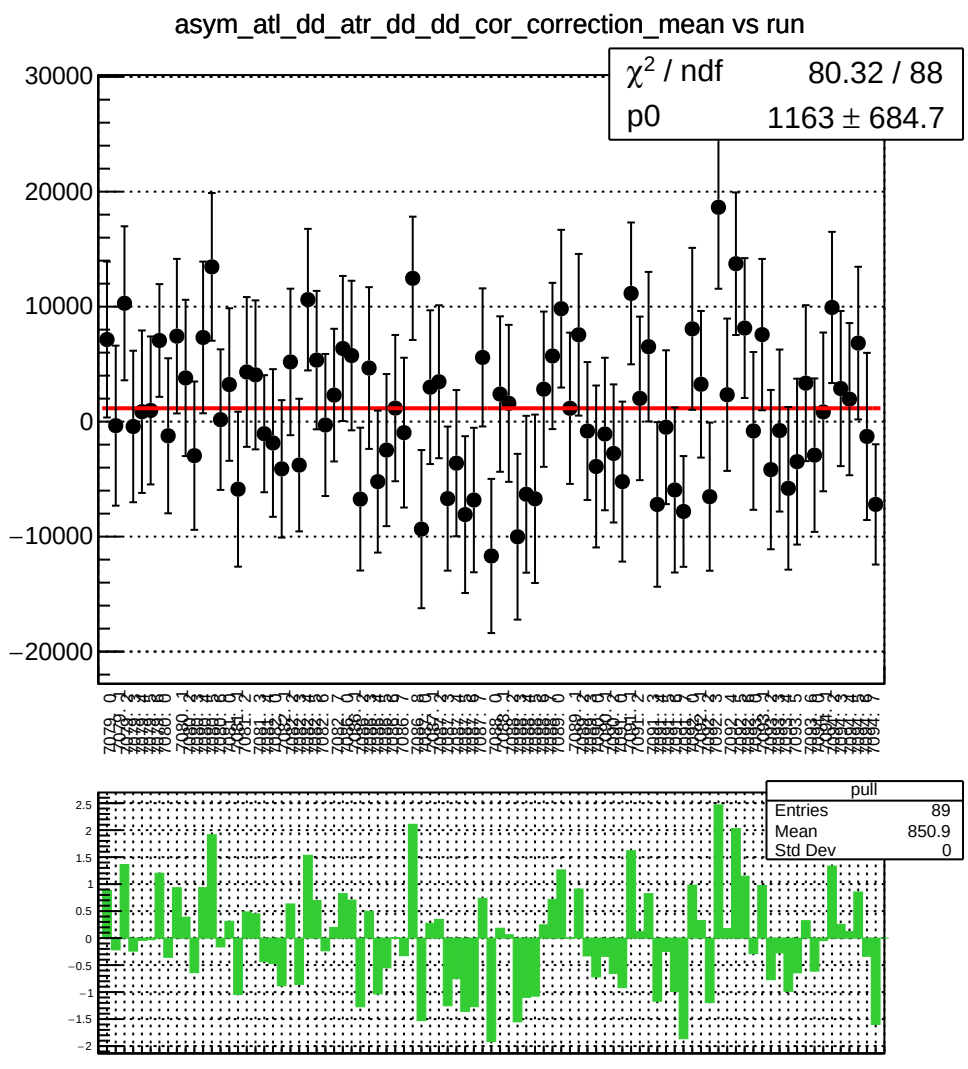

pull1D
Entries 89
Mean −0.002566
Std Dev 0.9499
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

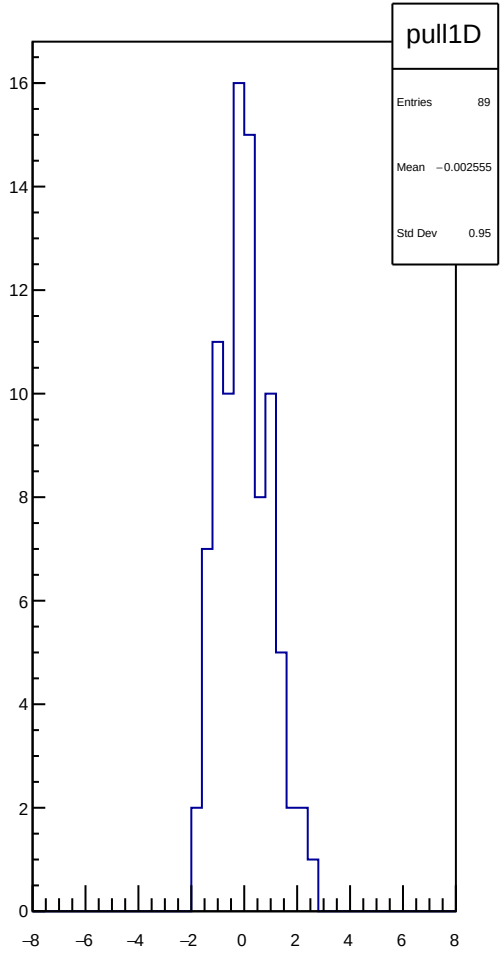

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 4339 / 88
p0 627.9 ± 0.4842
700
680
660
640
620
600
580
560
540

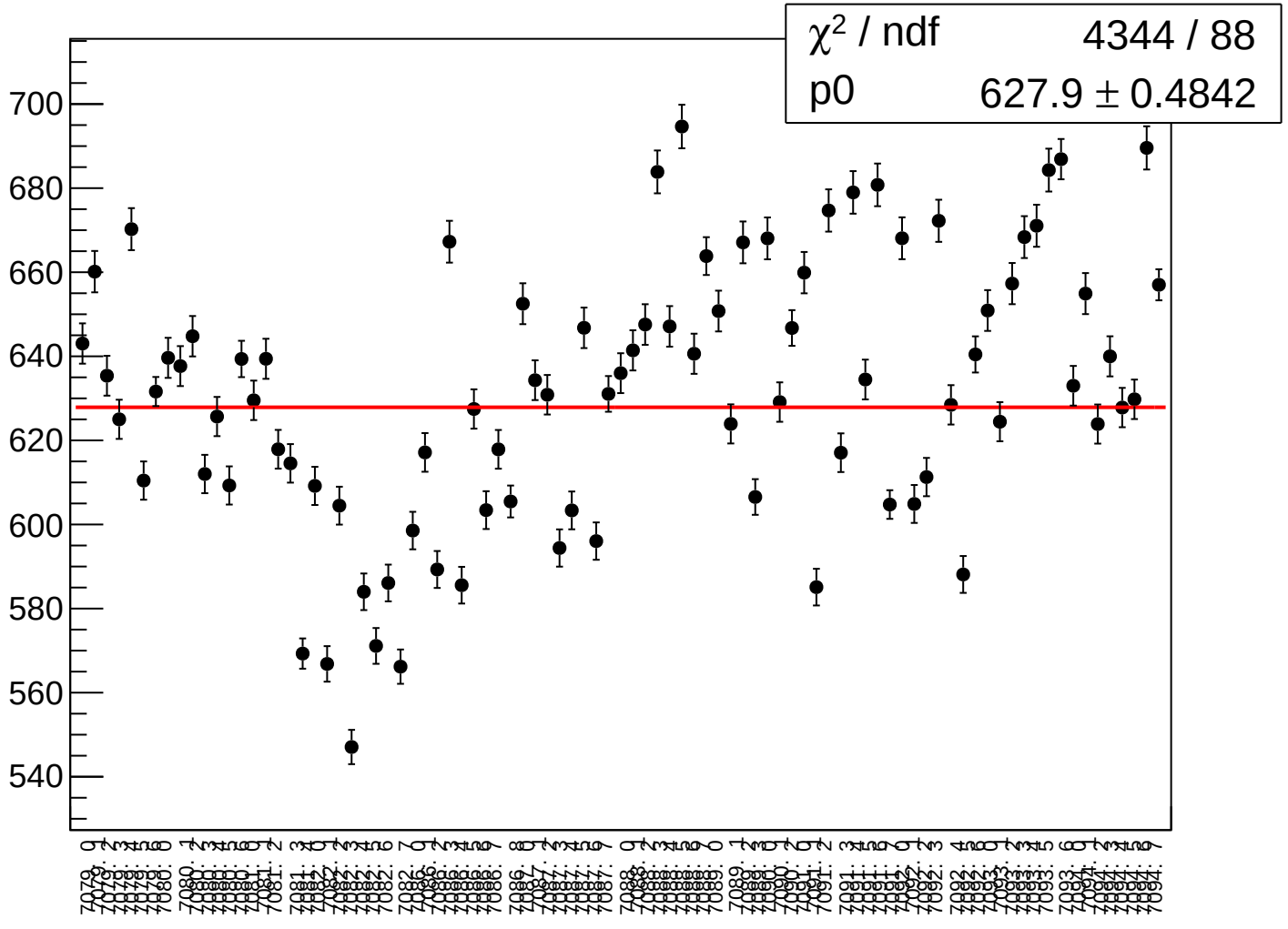

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 76.59 / 88
p0 −745.8 ± 1352
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 81.36
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

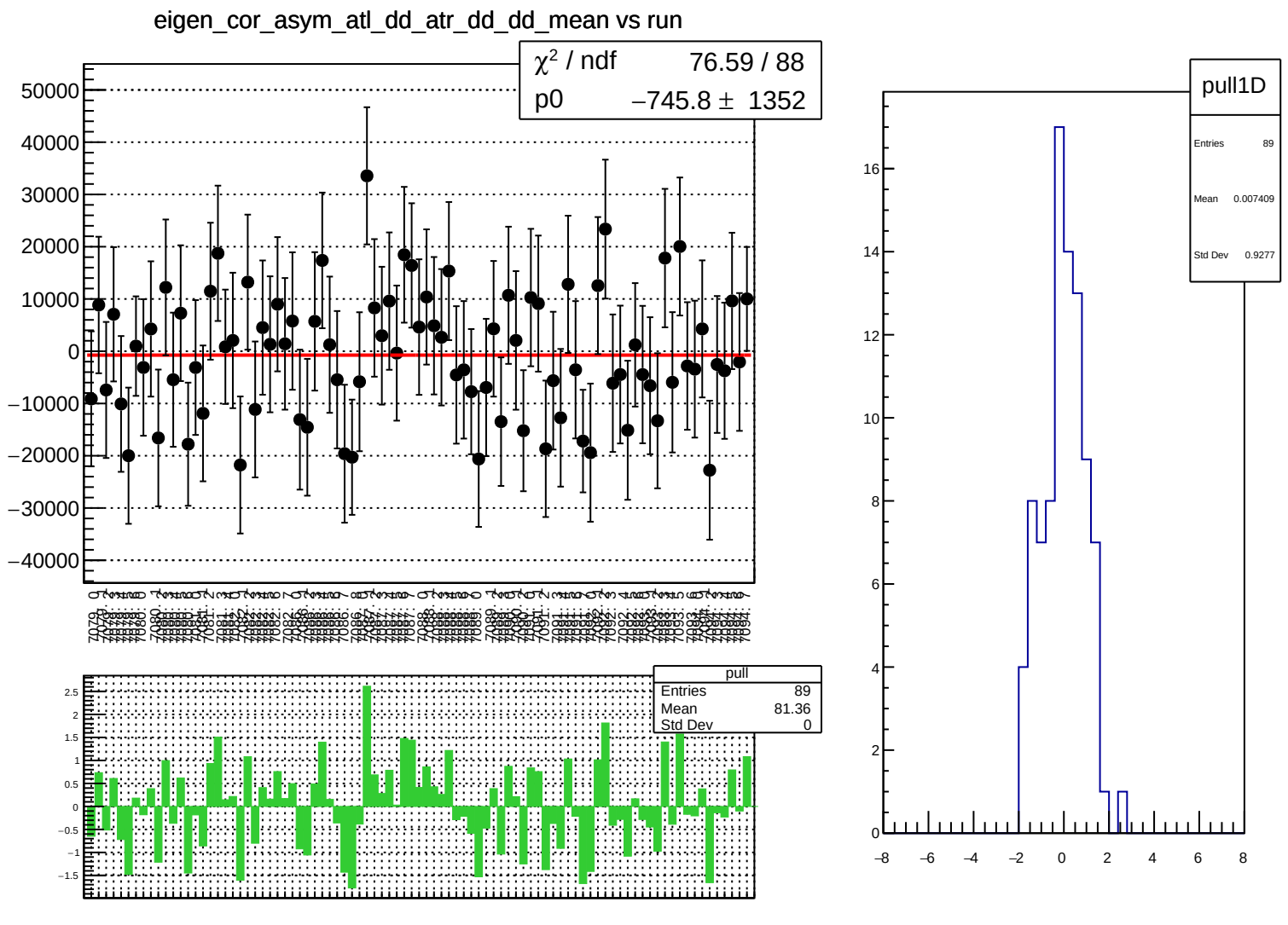

pull1D
Entries 89
Mean 0.007409
Std Dev 0.9277
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

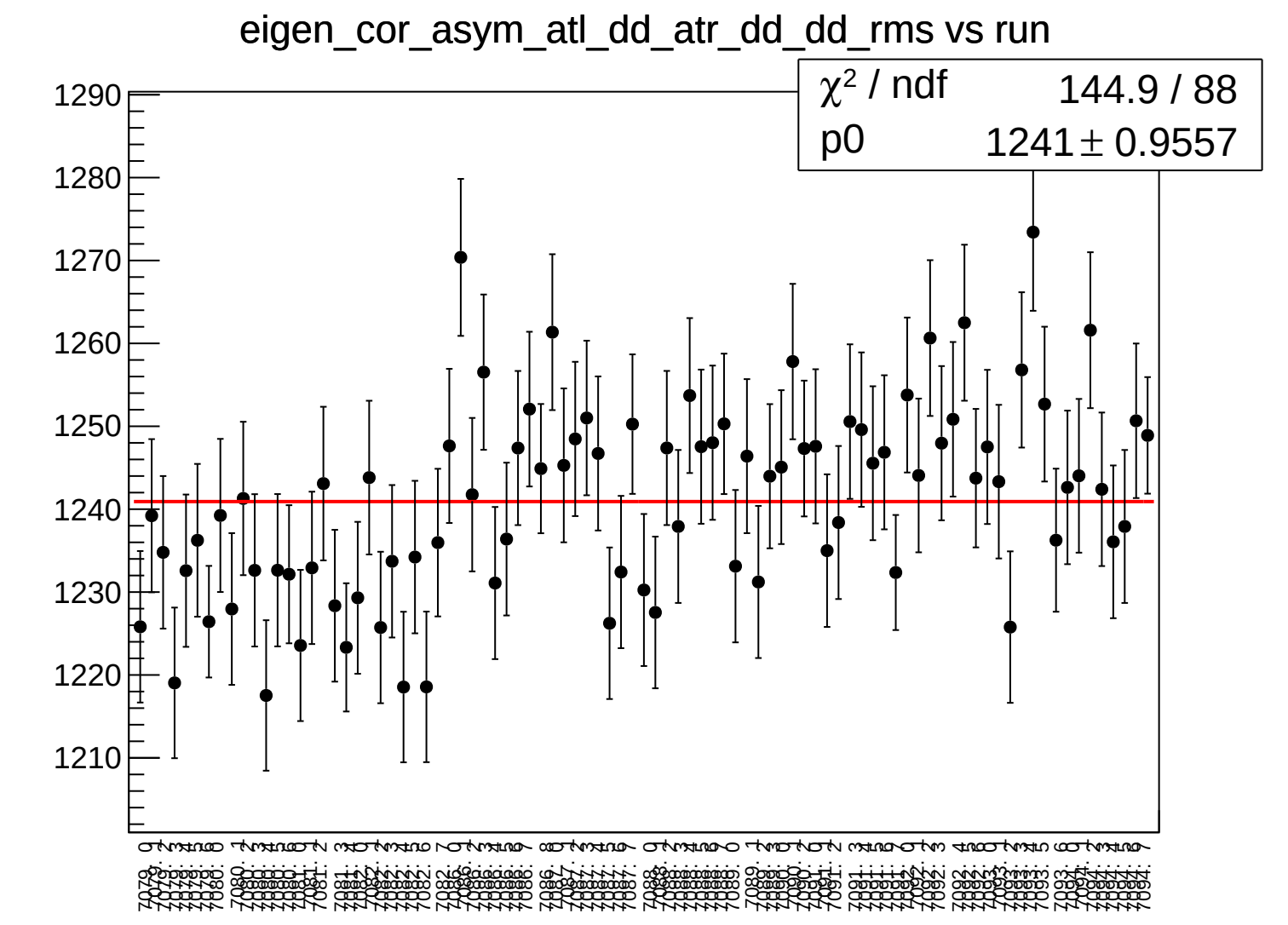

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 144.9 / 88
p0 1241 ± 0.9557
1290
1280
1270
1260
1250
1240
1230
1220
1210

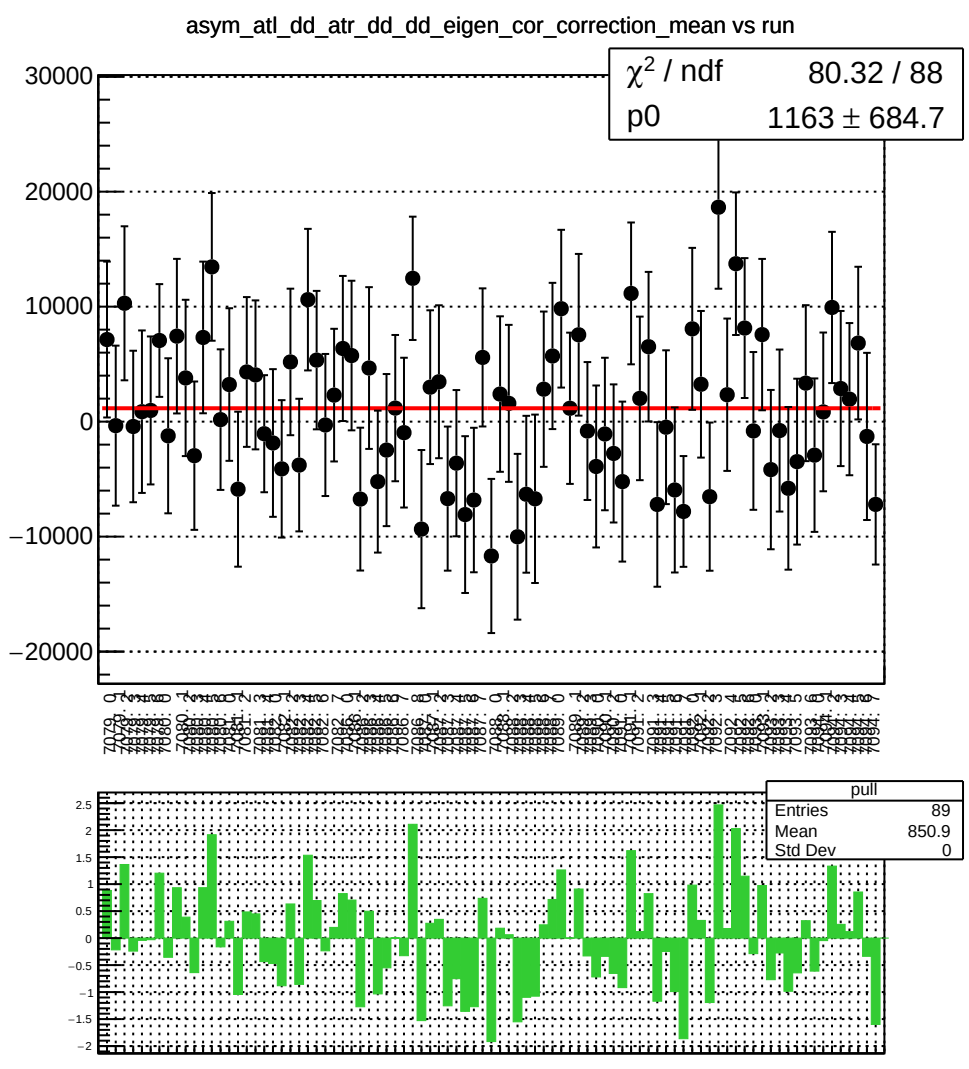

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 80.32 / 88
p0 1163 ± 684.7
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 850.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

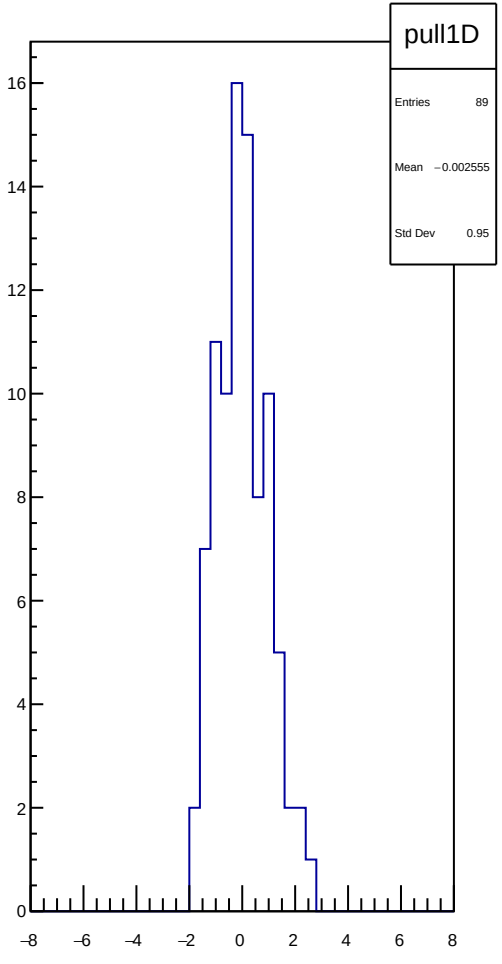

pull1D
Entries 89
Mean −0.002555
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

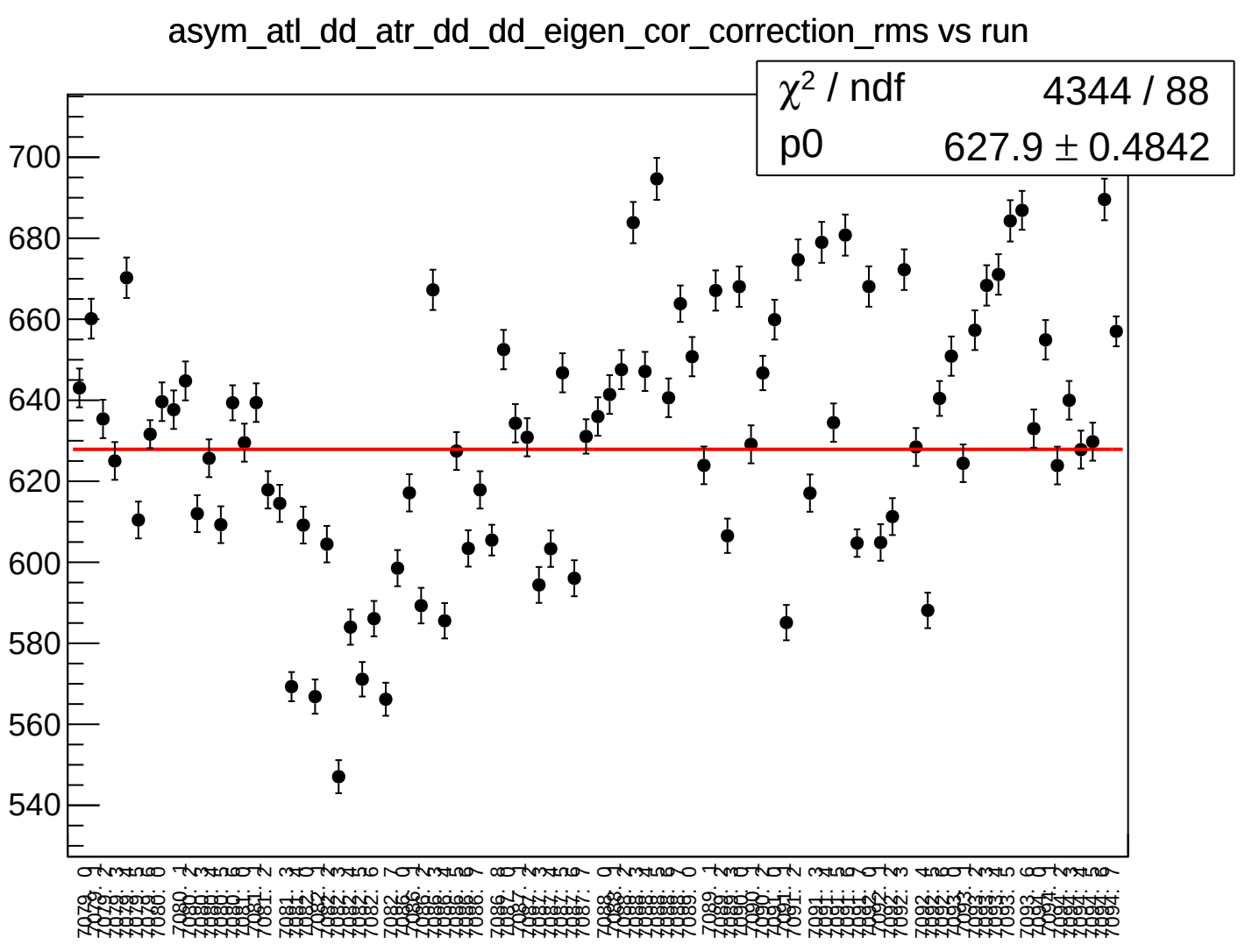

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 4344 / 88
p0 627.9 ± 0.4842
700
680
660
640
620
600
580
560
540

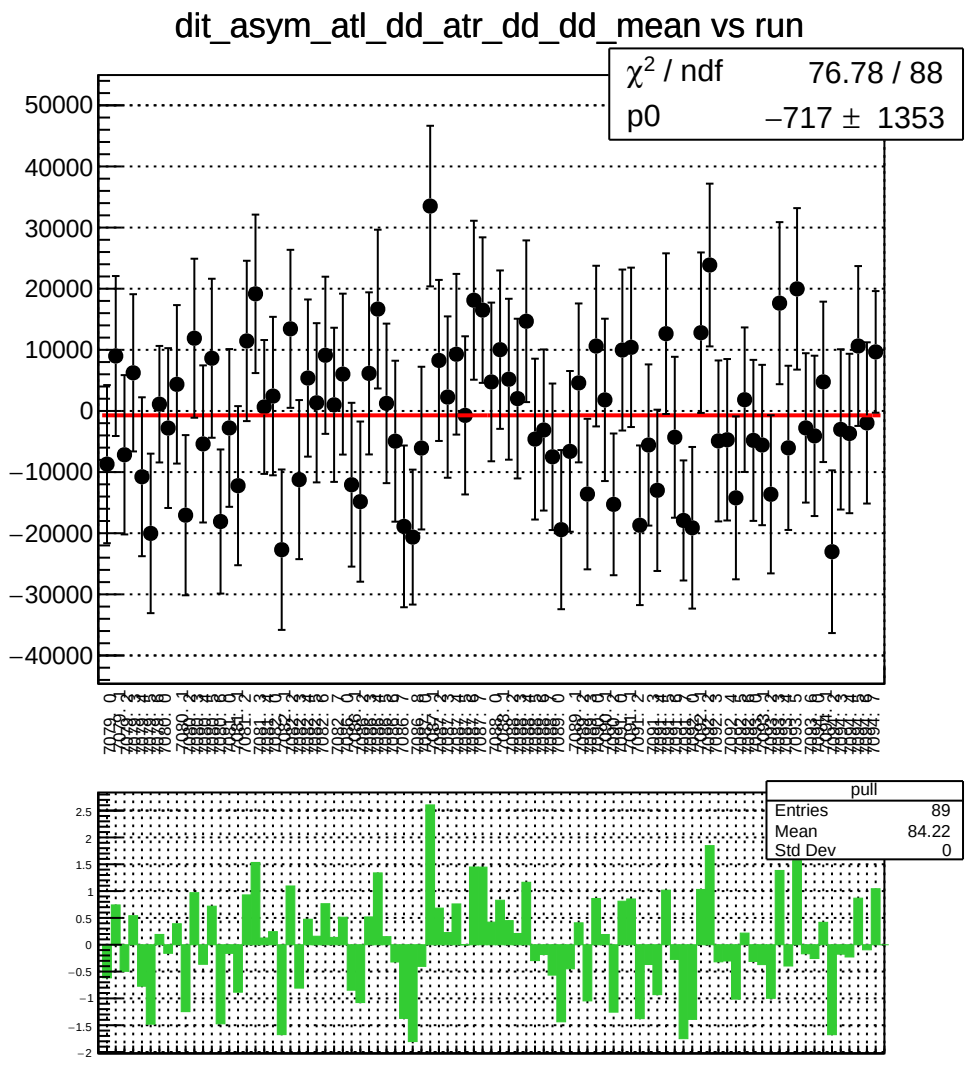

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 76.59 / 88
p0 −745.8 ± 1352
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 81.36
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.007409
Std Dev 0.9277
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

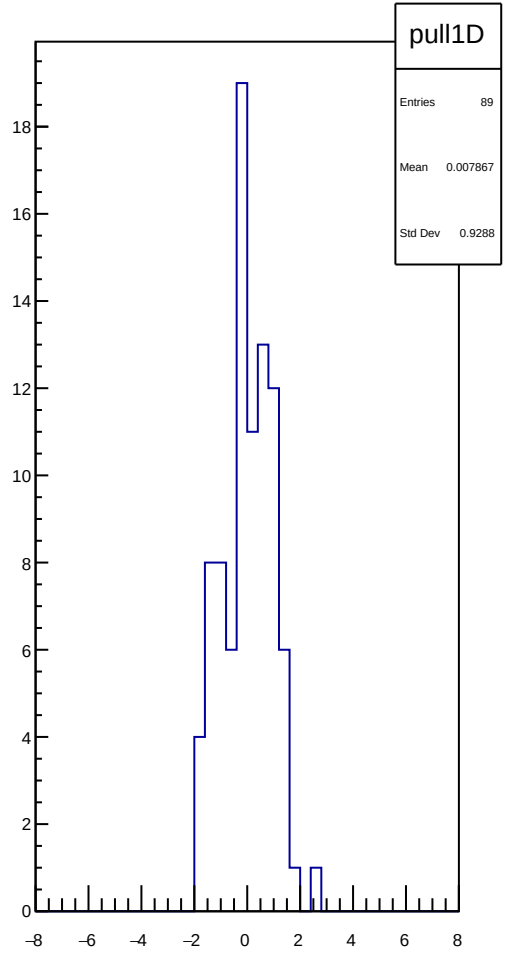

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 144.9 / 88
p0 1241 ± 0.9557
1290
1280
1270
1260
1250
1240
1230
1220
1210

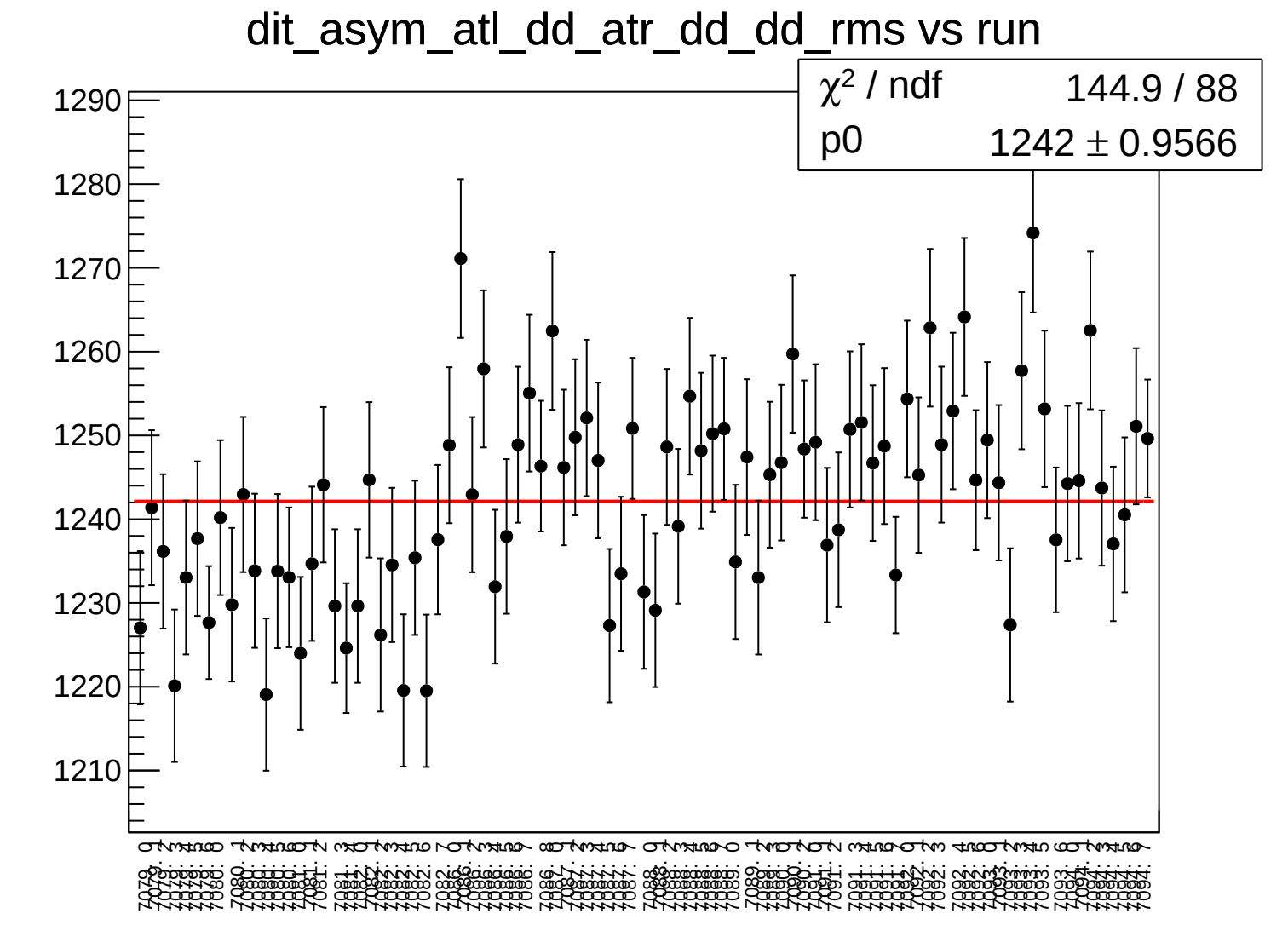

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.32 / 88
p0 1163 ± 684.7
pull
Entries 89
Mean 850.9
Std Dev 0

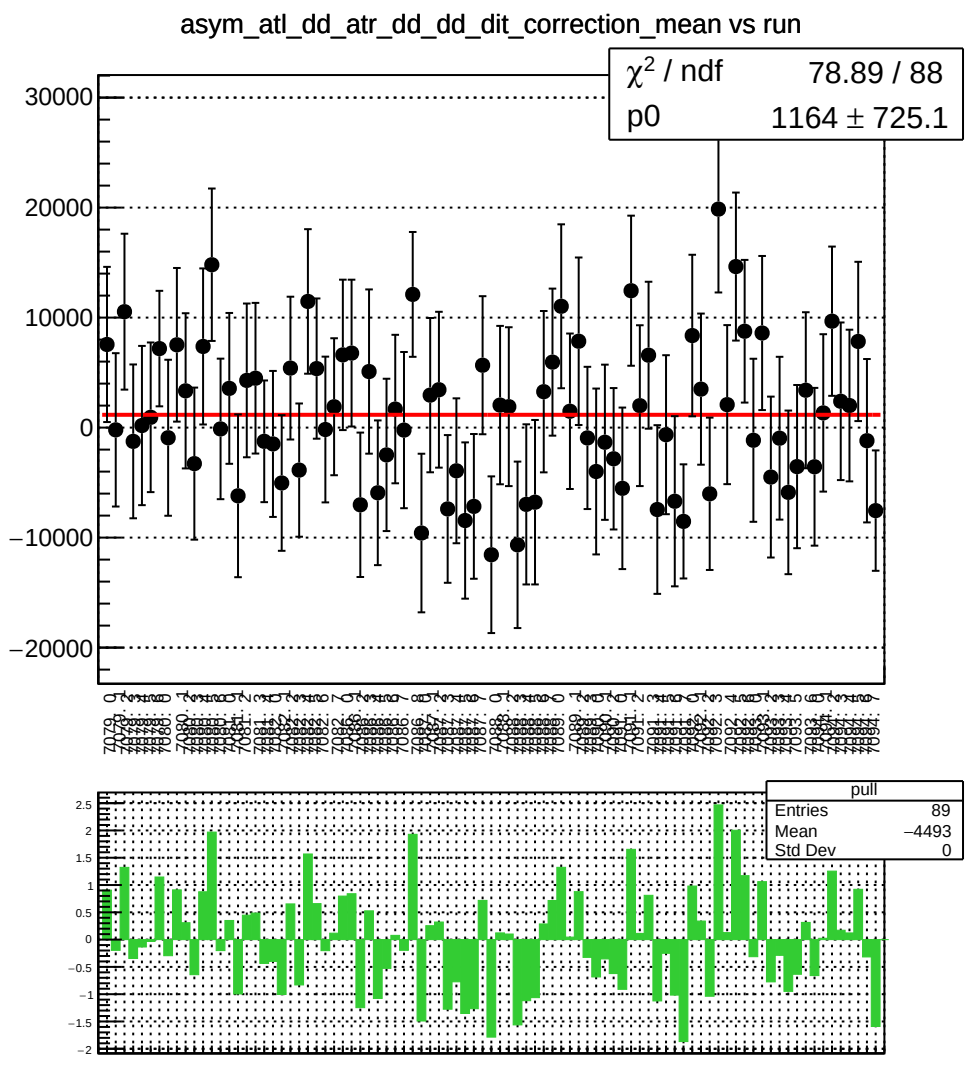

pull1D
Entries 89
Mean −0.002555
Std Dev 0.95

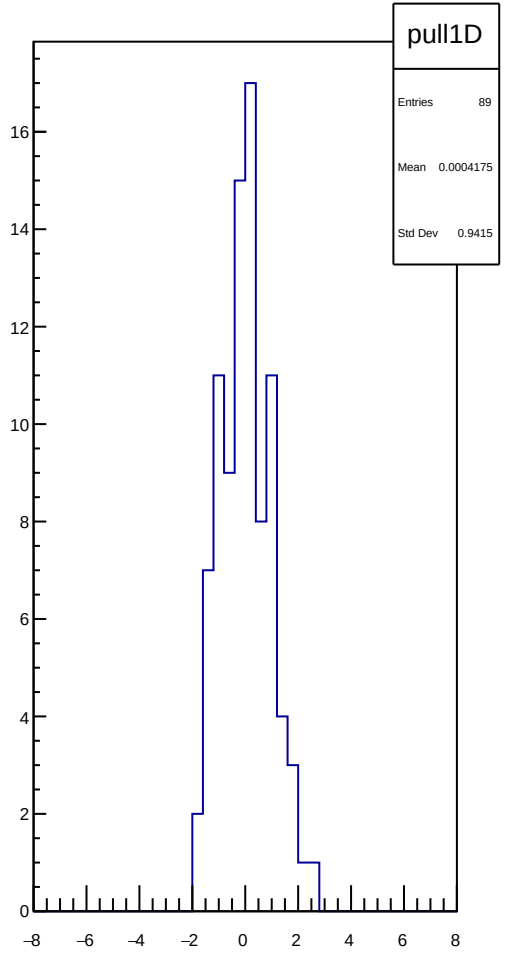

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4344 / 88
p0 627.9 ± 0.4842
700
680
660
640
620
600
580
560
540

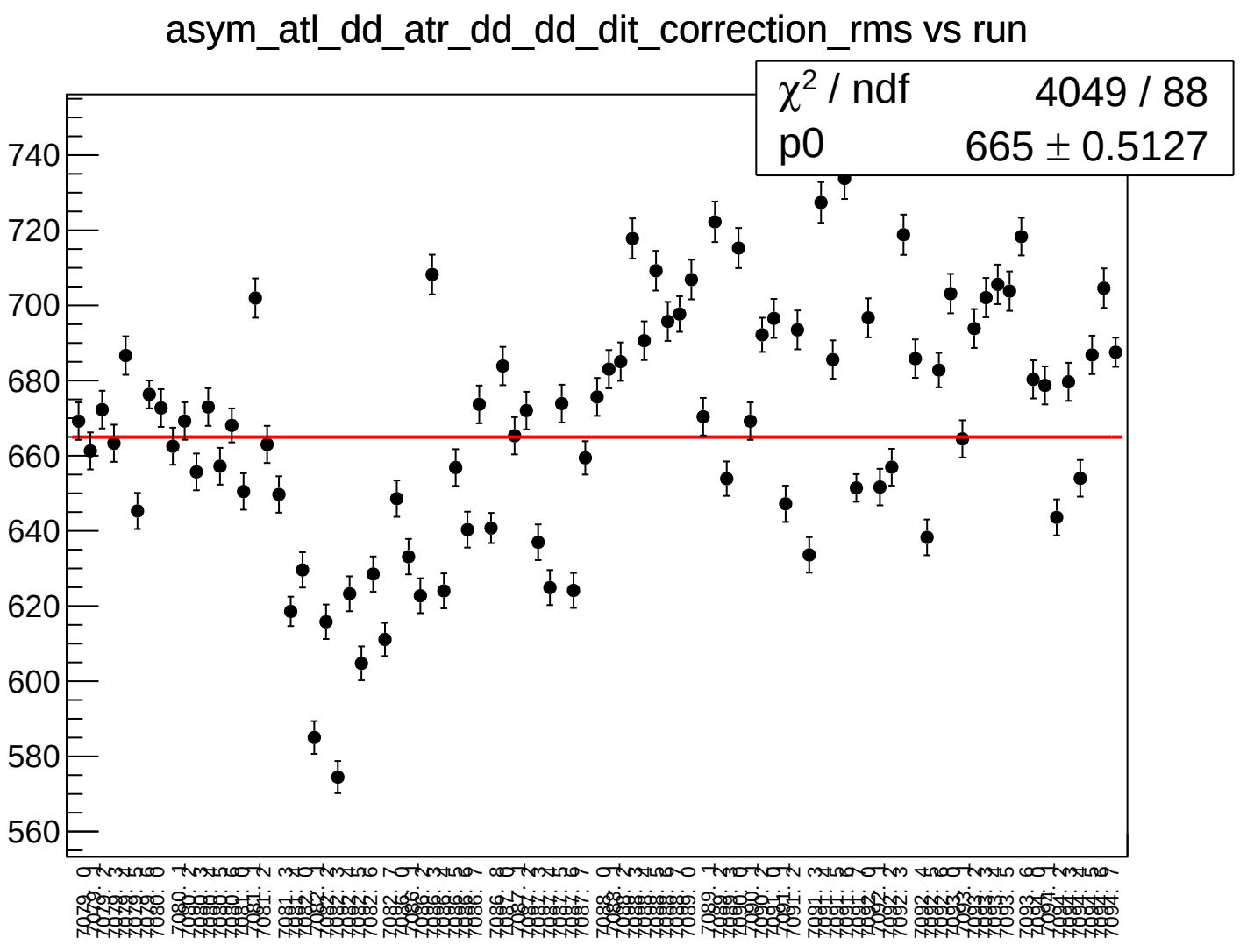

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 76.78 / 88
p0 −717 ± 1353
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 84.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

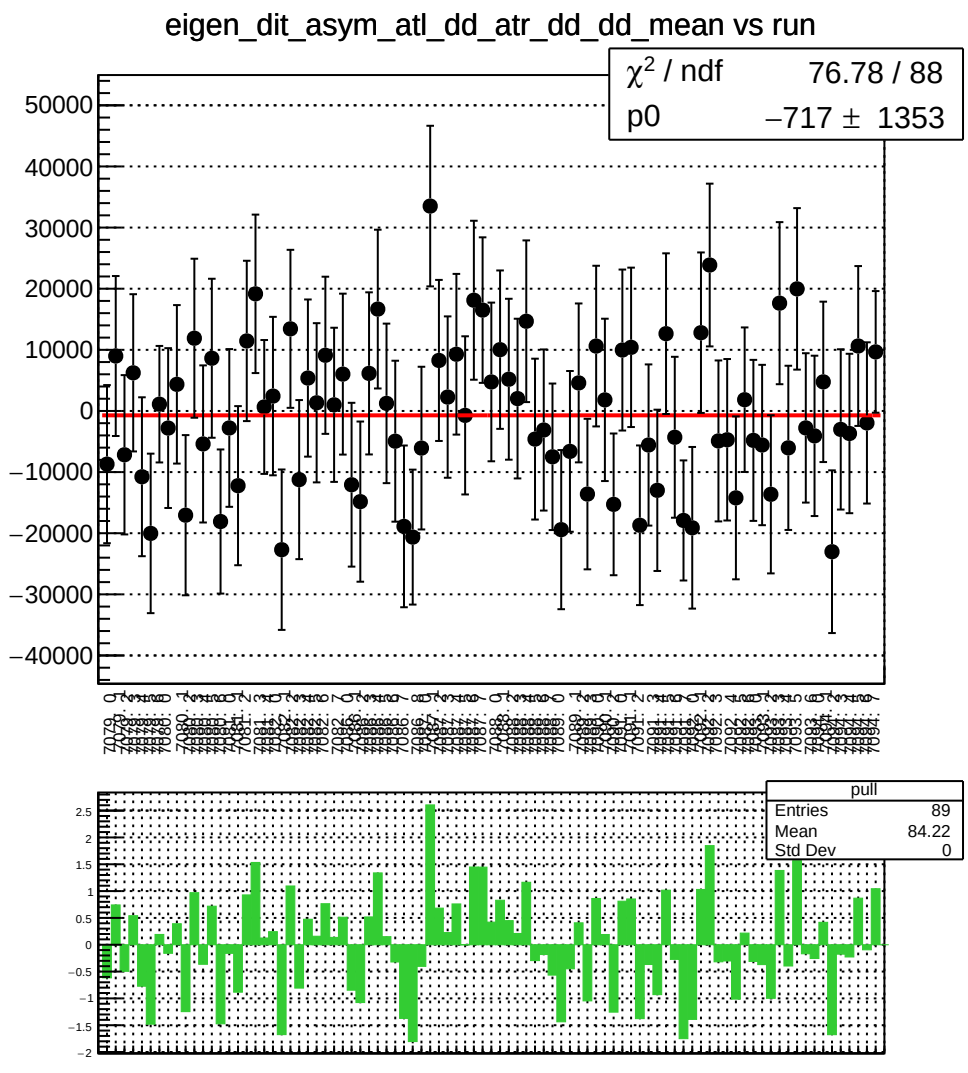

pull1D
Entries 89
Mean 0.007867
Std Dev 0.9288
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

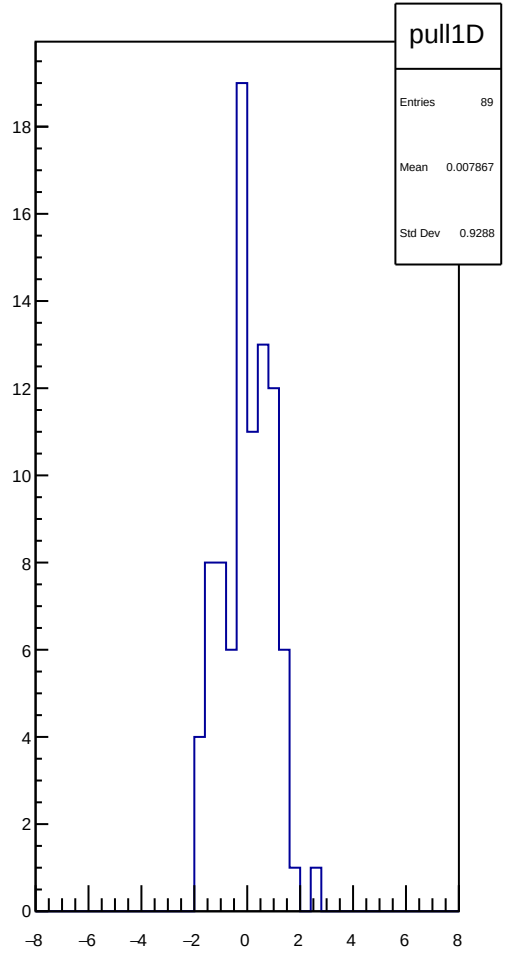

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 144.9 / 88
p0 1242 ± 0.9566
1290
1280
1270
1260
1250
1240
1230
1220
1210

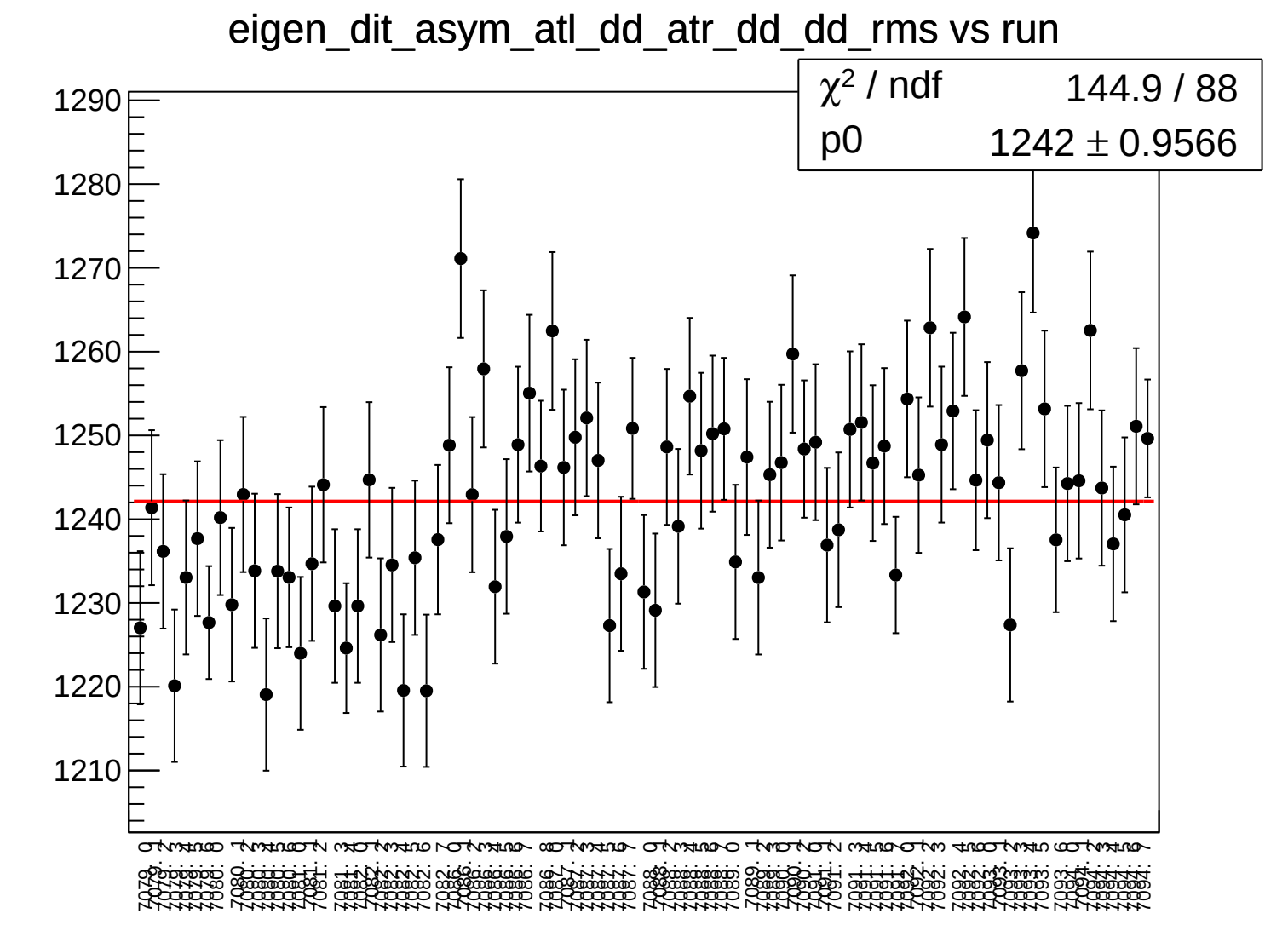

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 78.89 / 88
p0 1164 ± 725.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −4493
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

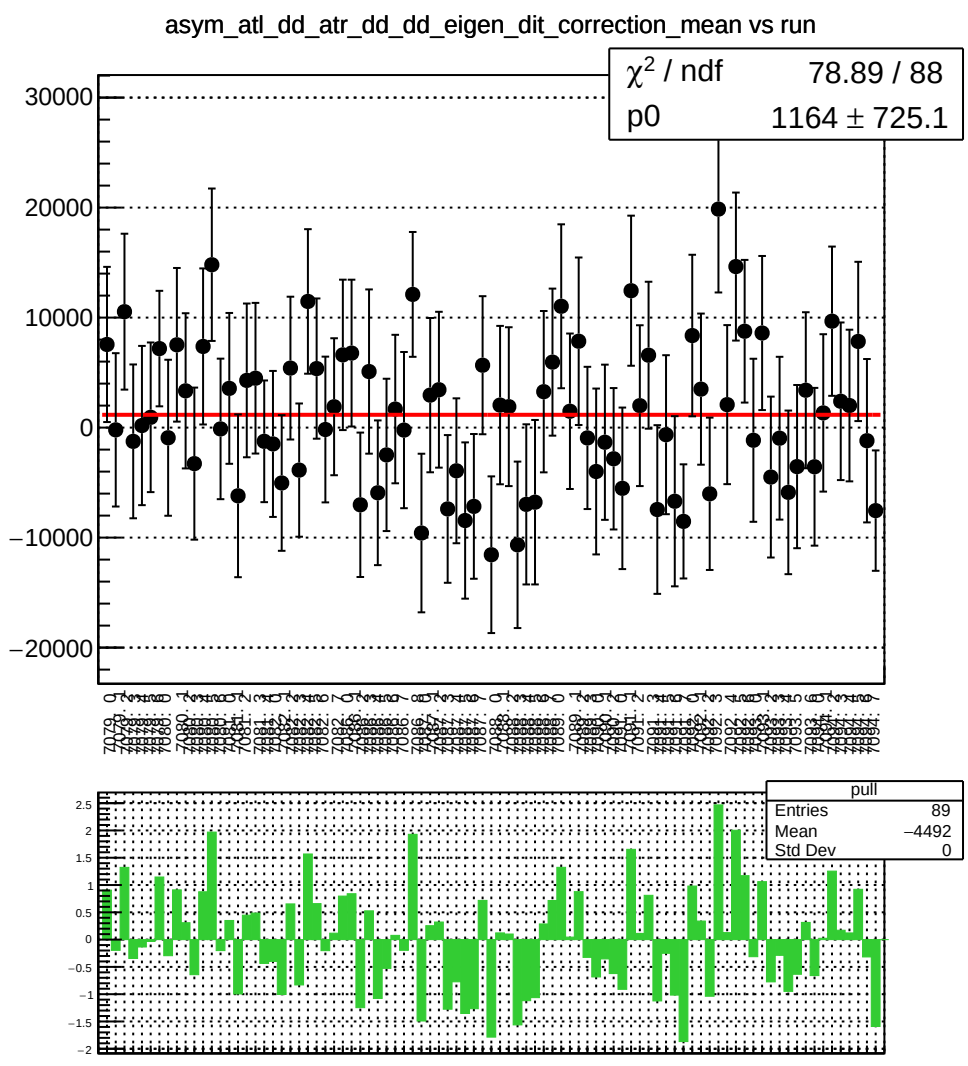

pull1D
Entries 89
Mean 0.0004175
Std Dev 0.9415
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

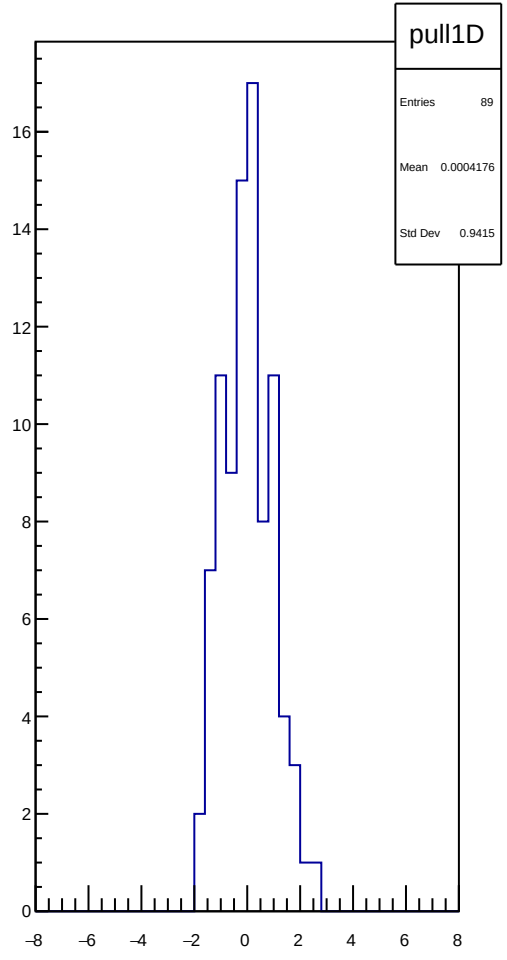

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 4049 / 88
p0 665 ± 0.5127
740
720
700
680
660
640
620
600
580
560

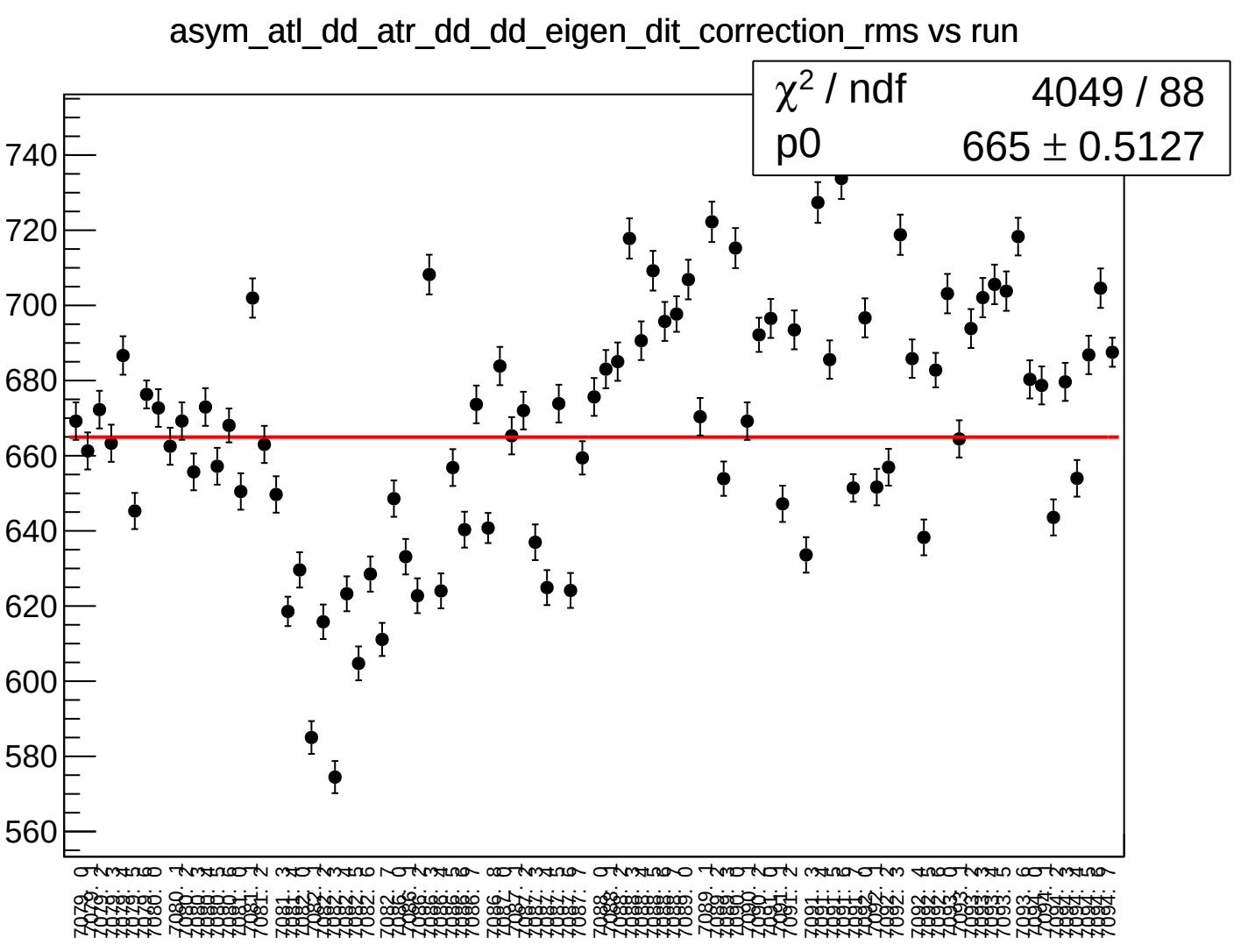

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 76.78 / 88
p0 −717 ± 1353
pull
Entries 89
Mean 84.22
Std Dev 0

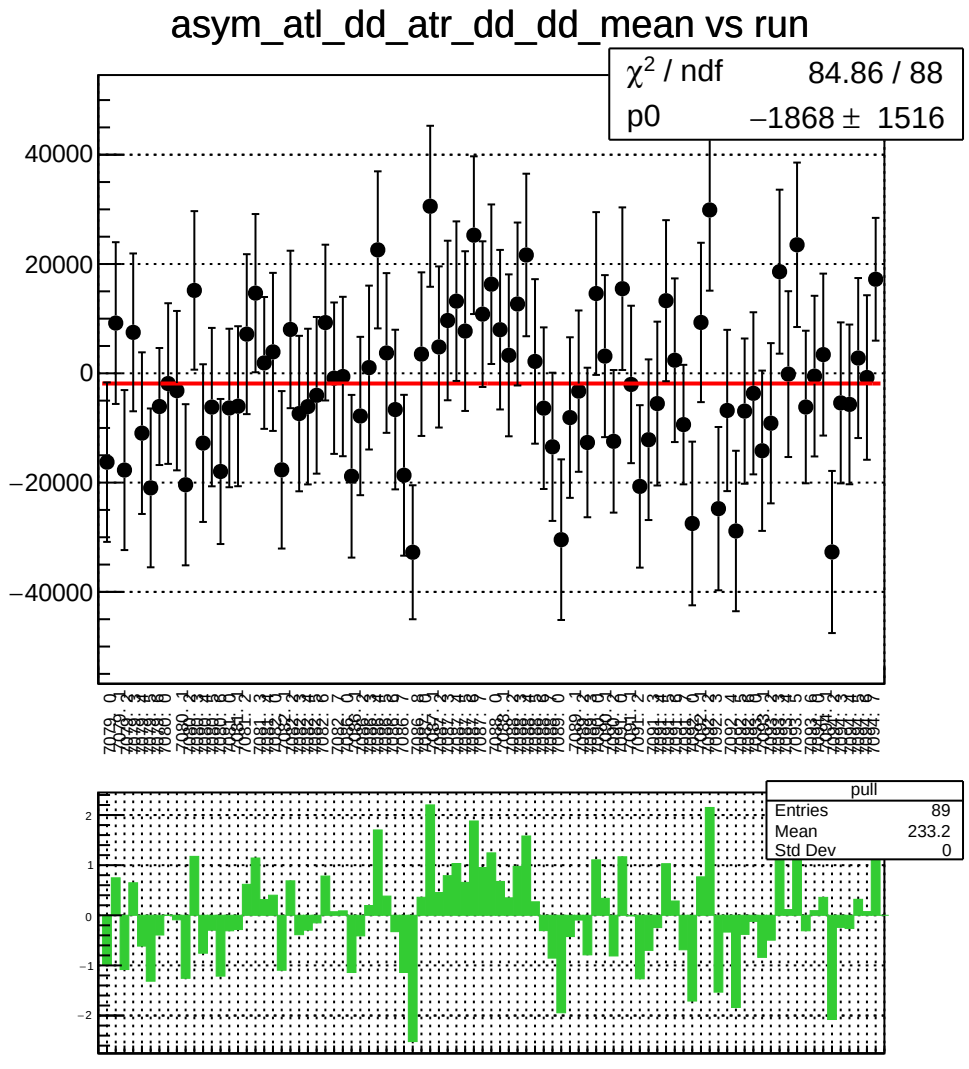

pull1D
Entries 89
Mean 0.007867
Std Dev 0.9288

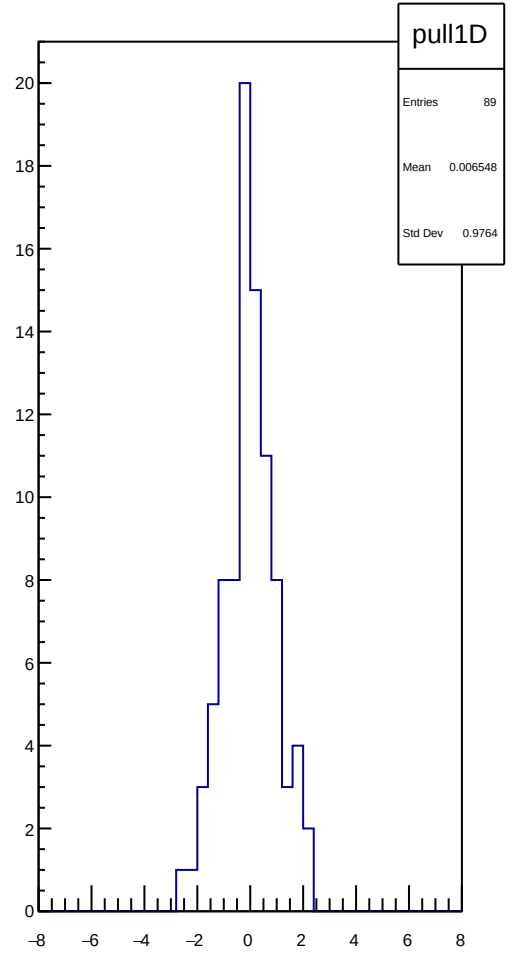

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 144.9 / 88
p0 1242 ± 0.9566
1290
1280
1270
1260
1250
1240
1230
1220
1210

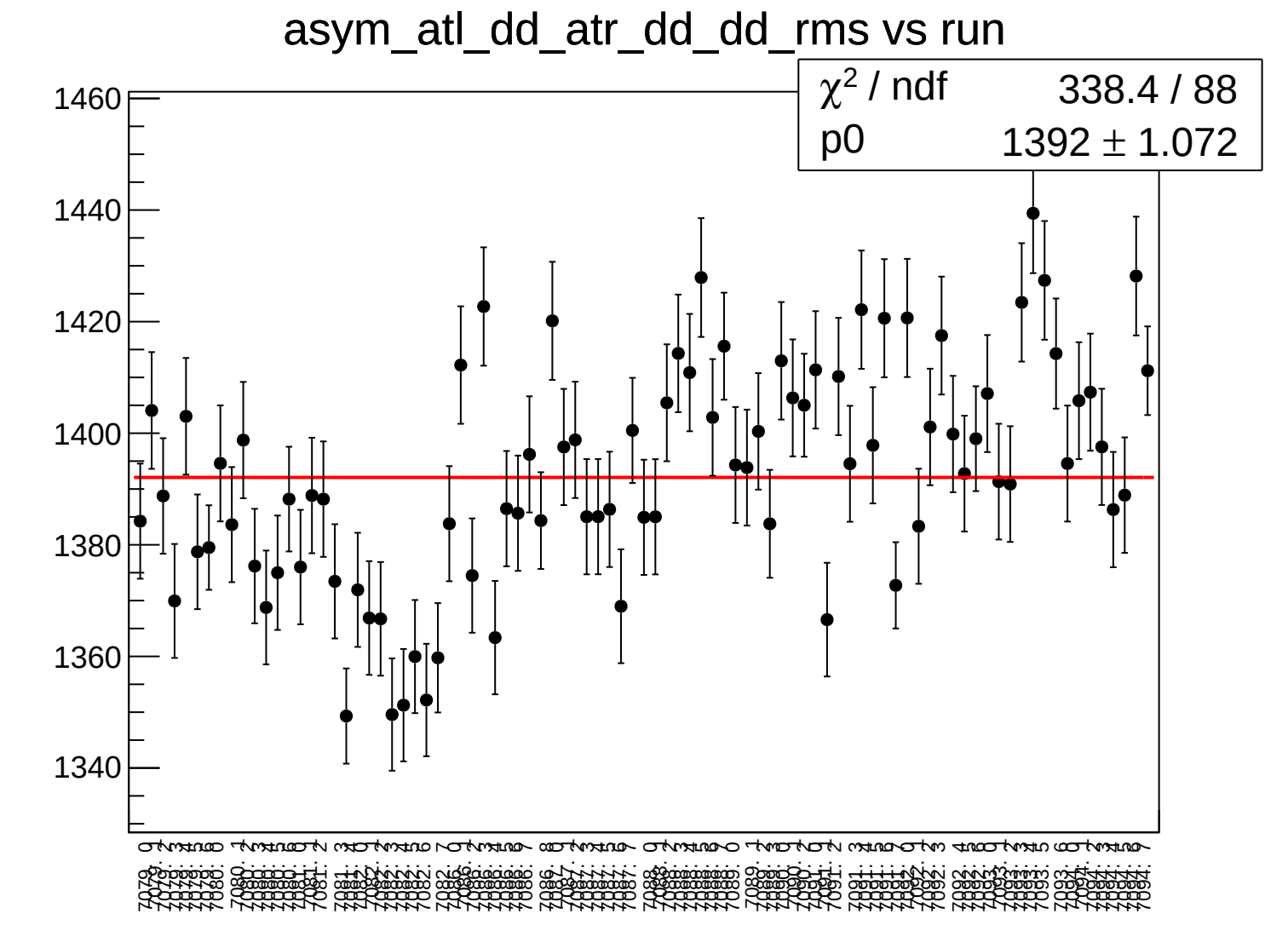

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.89 / 88
p0 1164 ± 725.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −4492
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

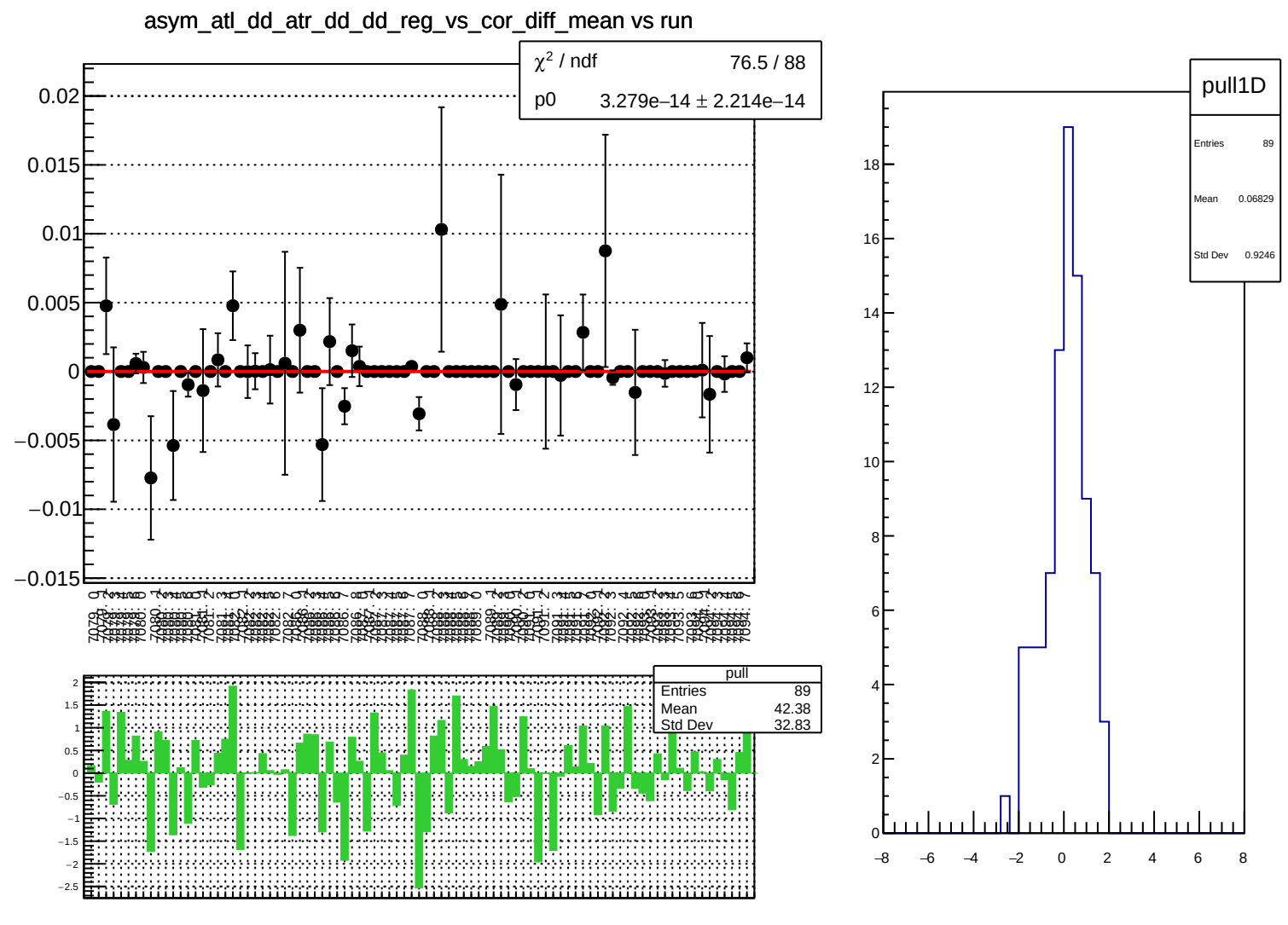

pull1D
Entries 89
Mean 0.0004176
Std Dev 0.9415
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

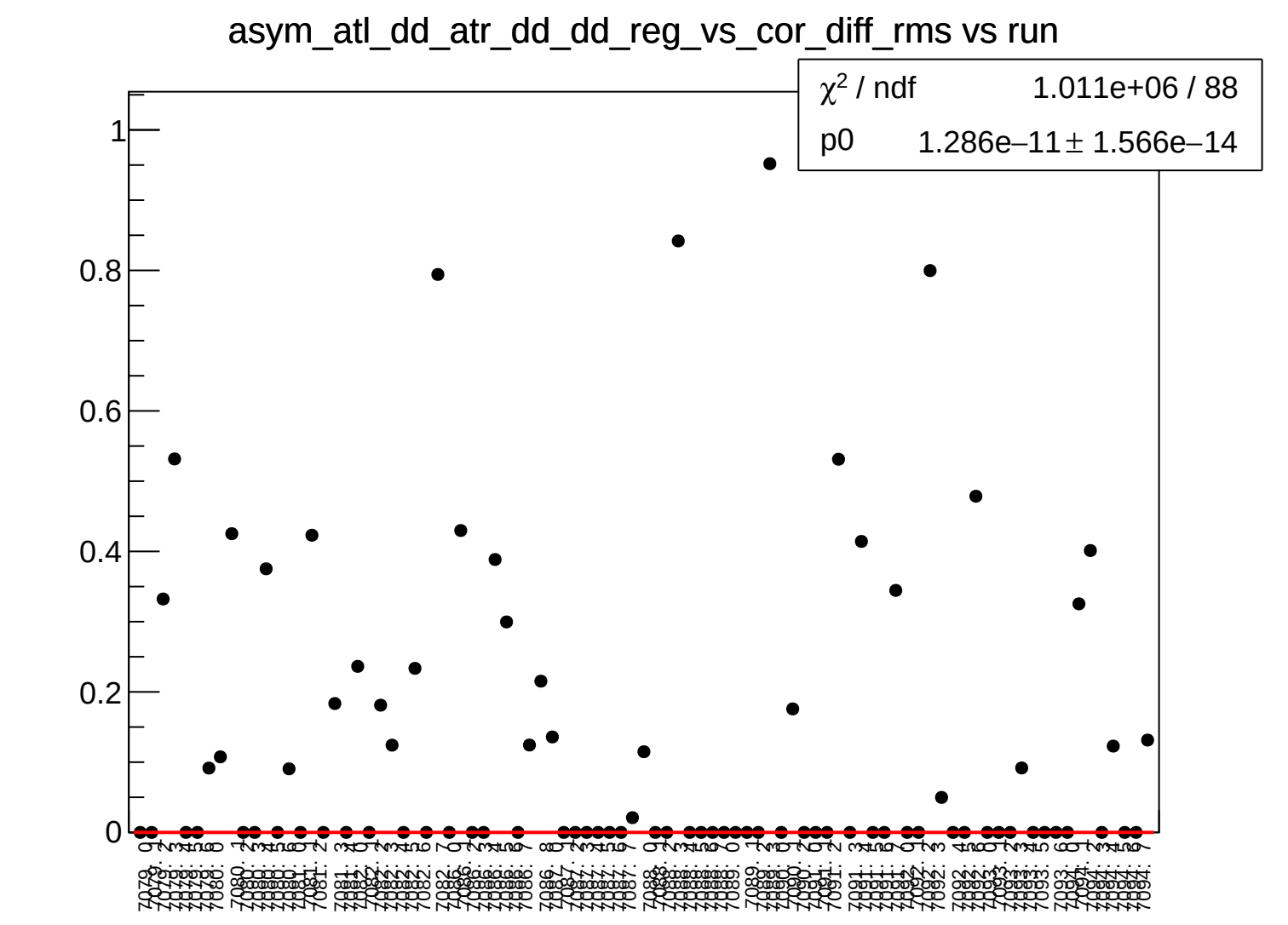

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4049 / 88
p0 665 ± 0.5127
740
720
700
680
660
640
620
600
580
560

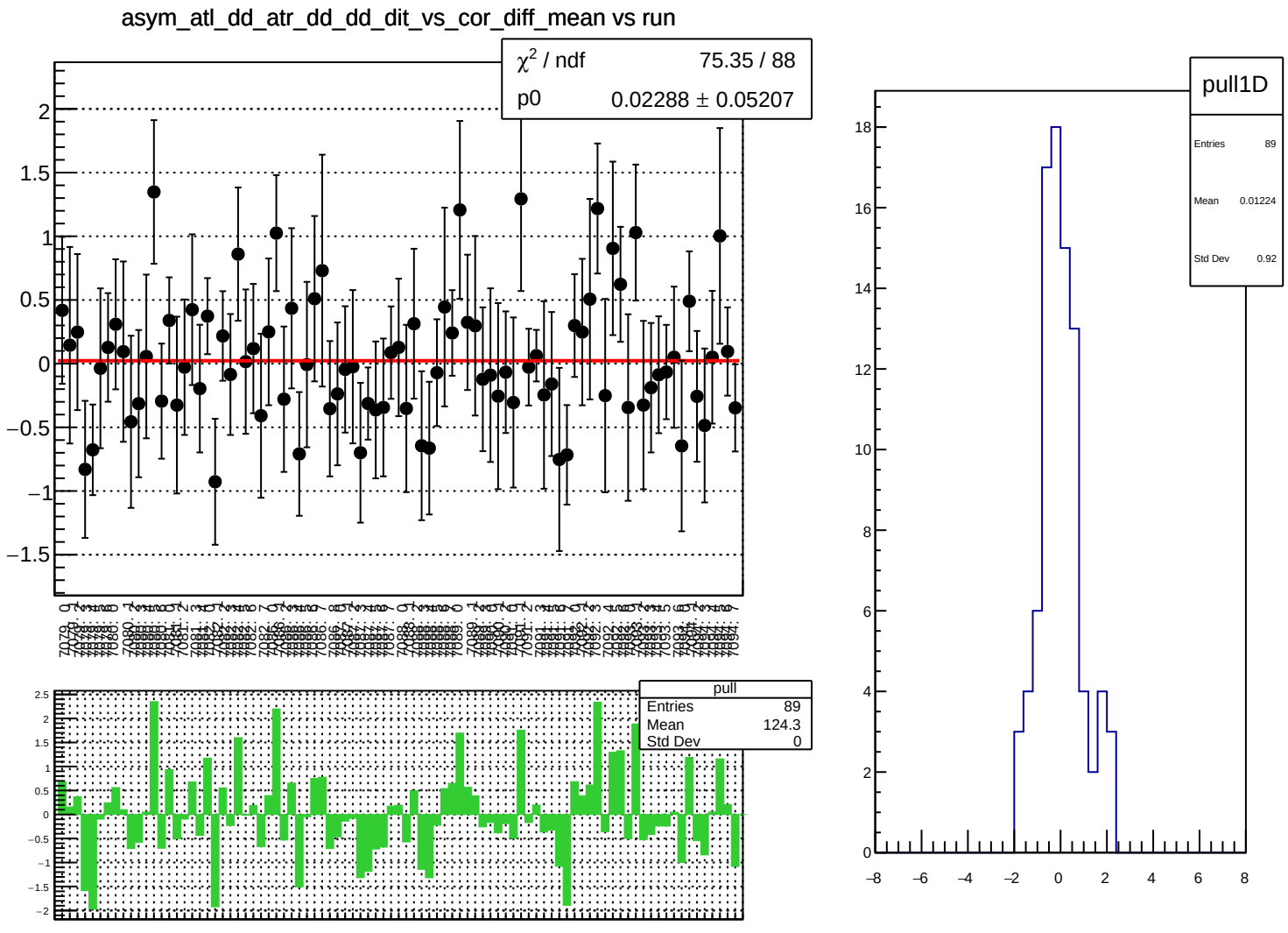

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.86 / 88
p0 −1868 ± 1516
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 233.2
Std Dev 0
2
1
0
−1
−2

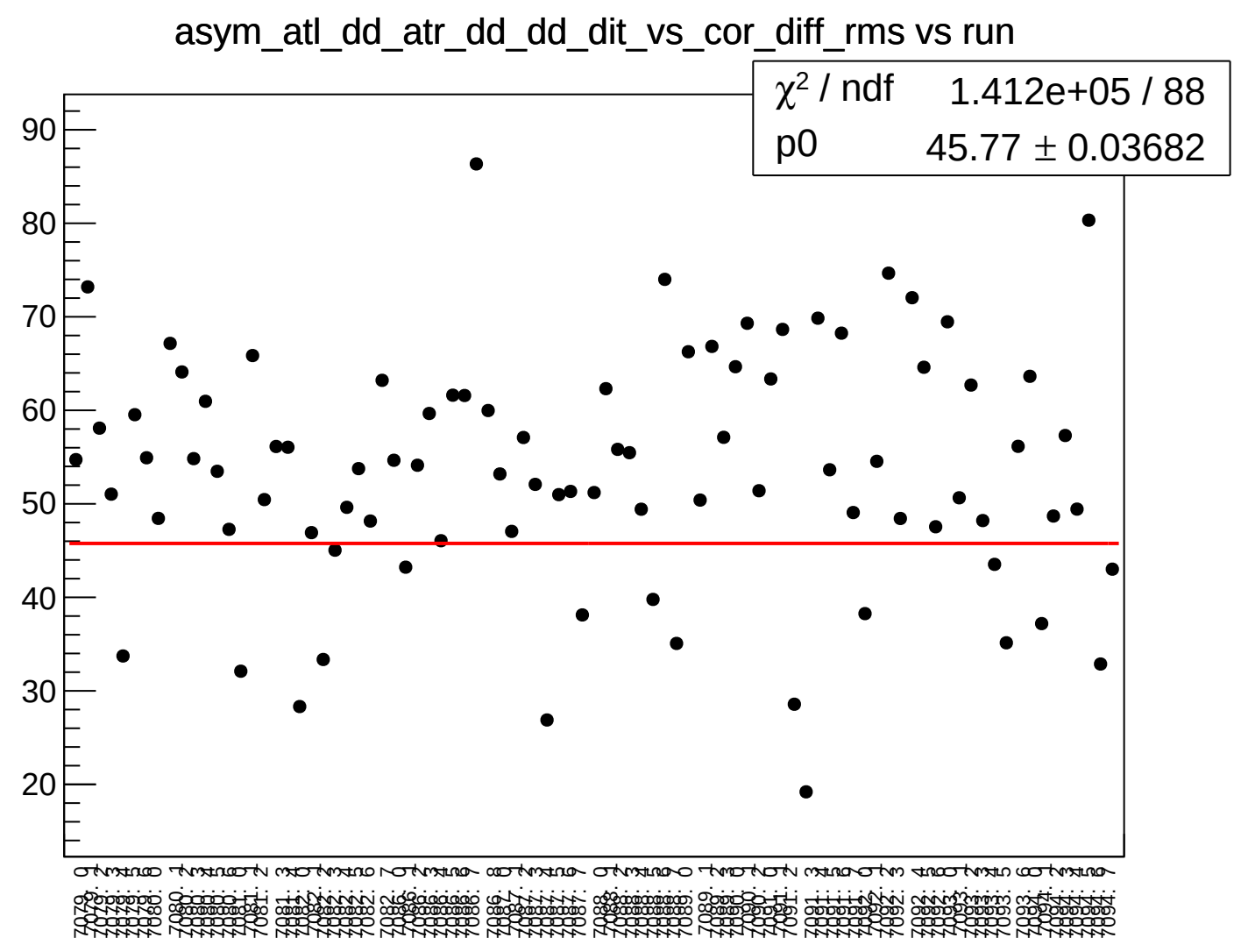

pull1D
Entries 89
Mean 0.006548
Std Dev 0.9764
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

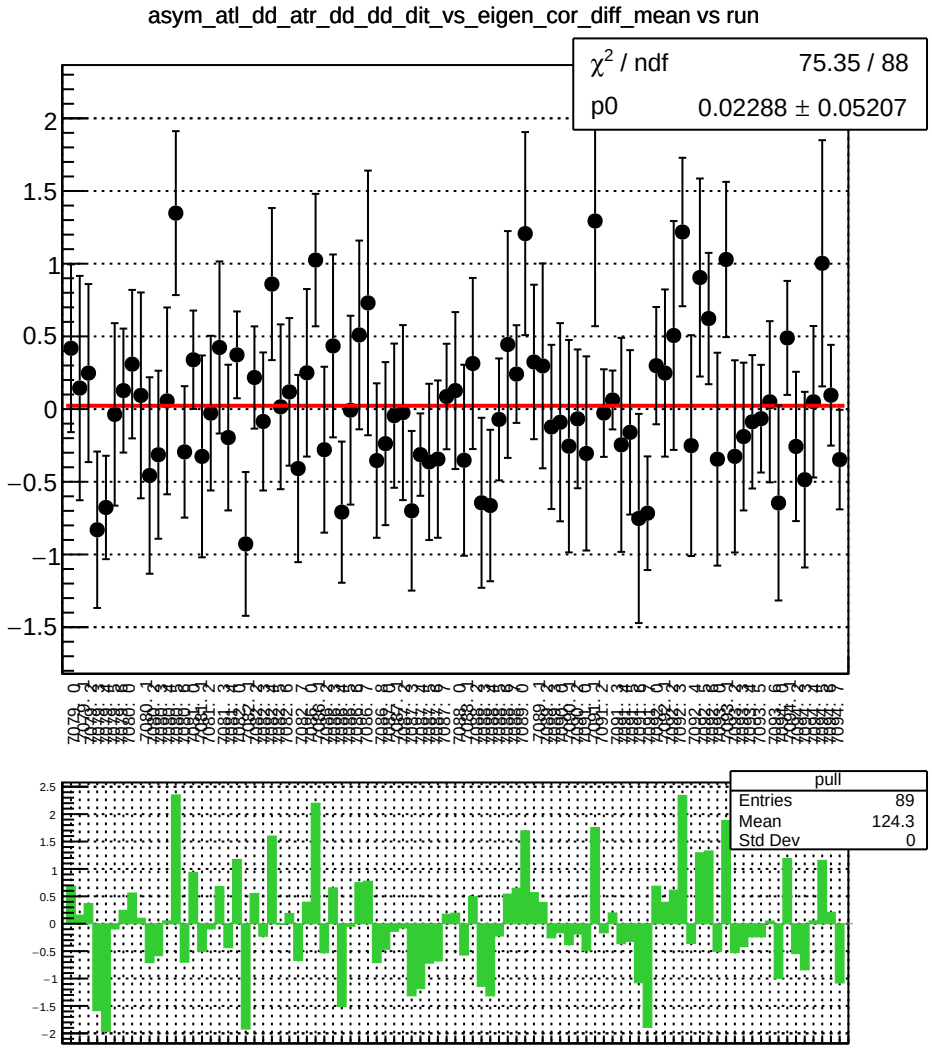

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 338.4 / 88
p0 1392 ± 1.072
1460
1440
1420
1400
1380
1360
1340

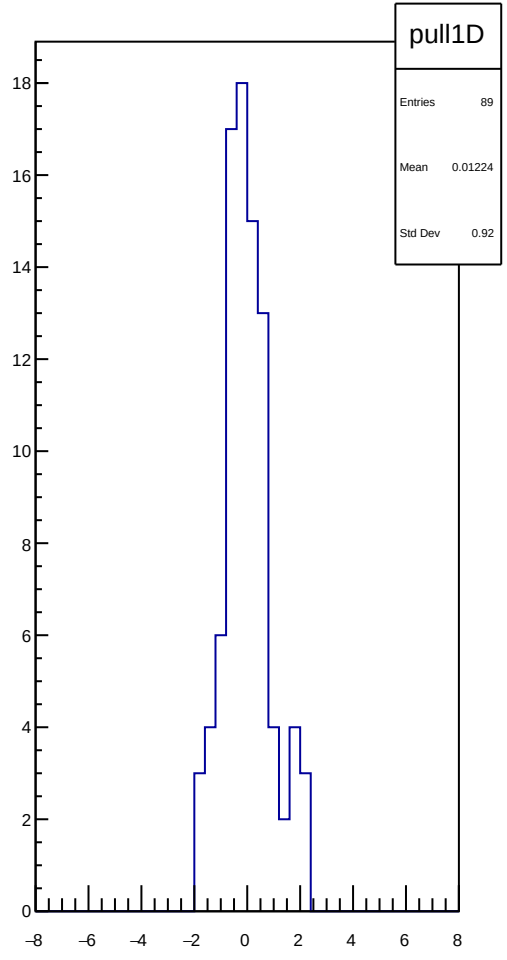

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.5 / 88
p0 3.279e−14 ± 2.214e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 42.38
Std Dev 32.83
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.06829
Std Dev 0.9246
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

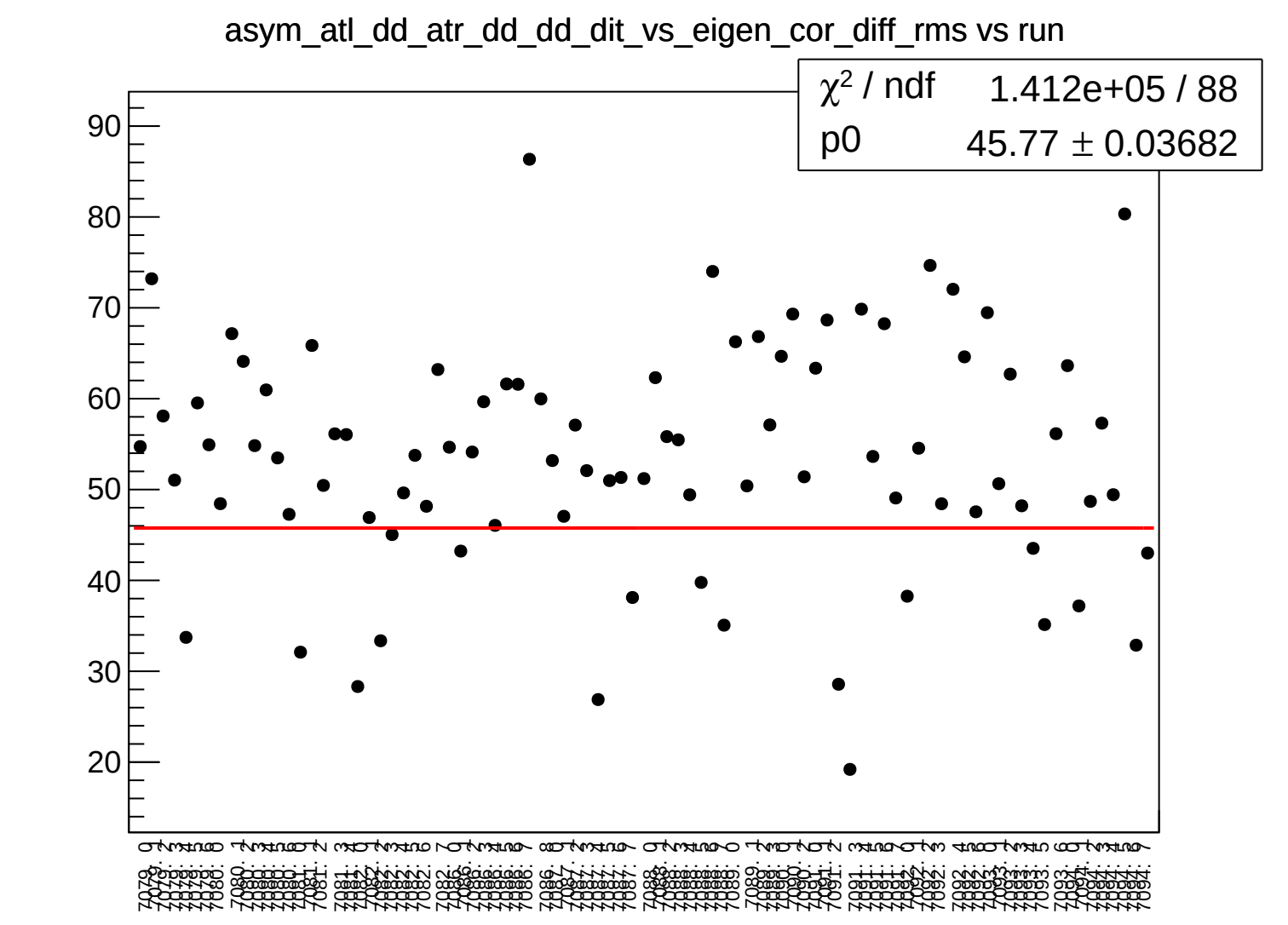

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 88
p0 1.286e−11 ± 1.566e−14
1
0.8
0.6
0.4
0.2
0

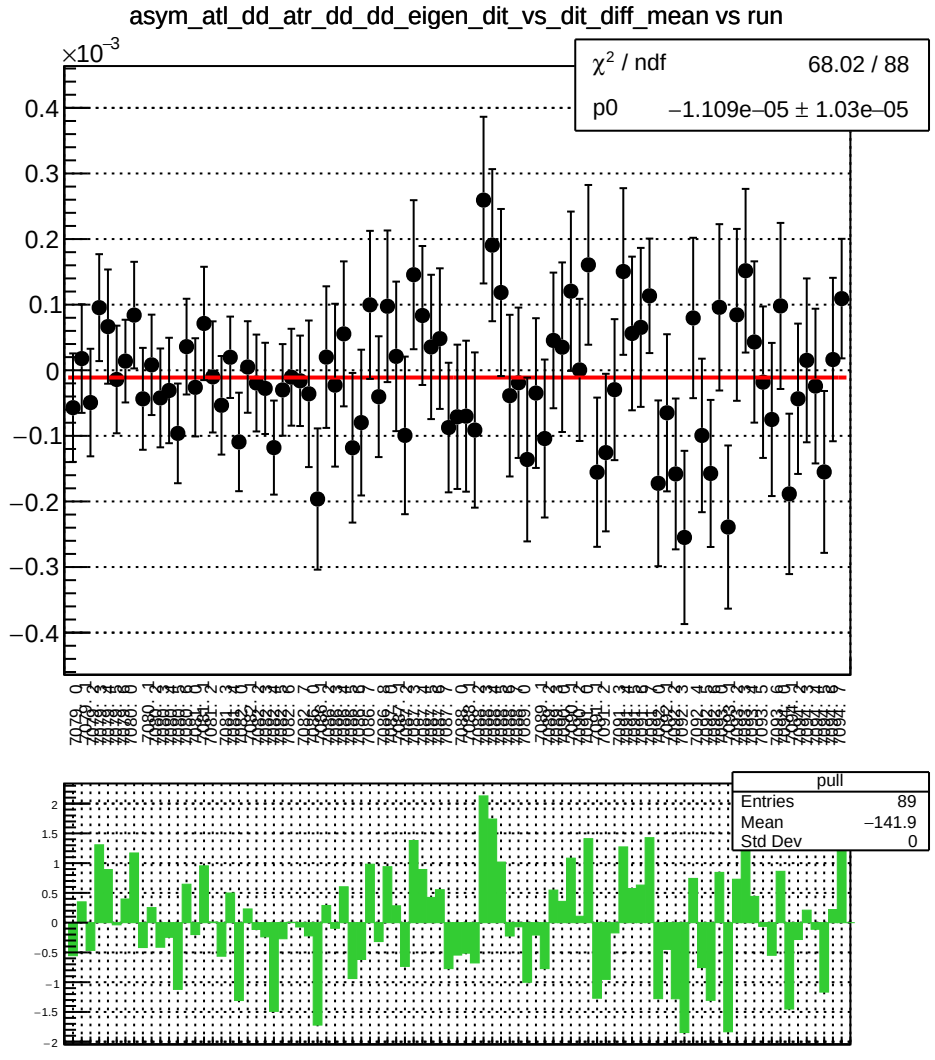

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.35 / 88
p0 0.02288 ± 0.05207
pull
Entries 89
Mean 124.3
Std Dev 0
pull1D
Entries 89
Mean 0.01224
Std Dev 0.92

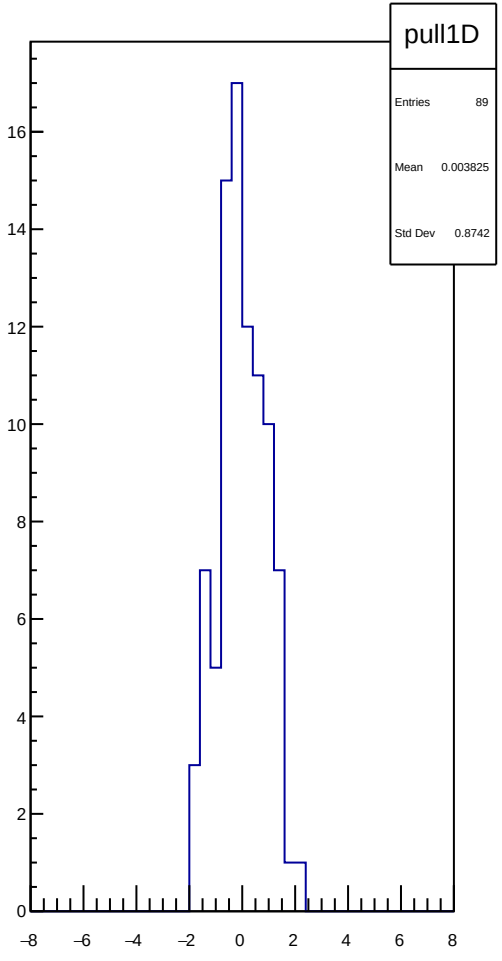

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 88
p0 45.77 ± 0.03682
90
80
70
60
50
40
30
20

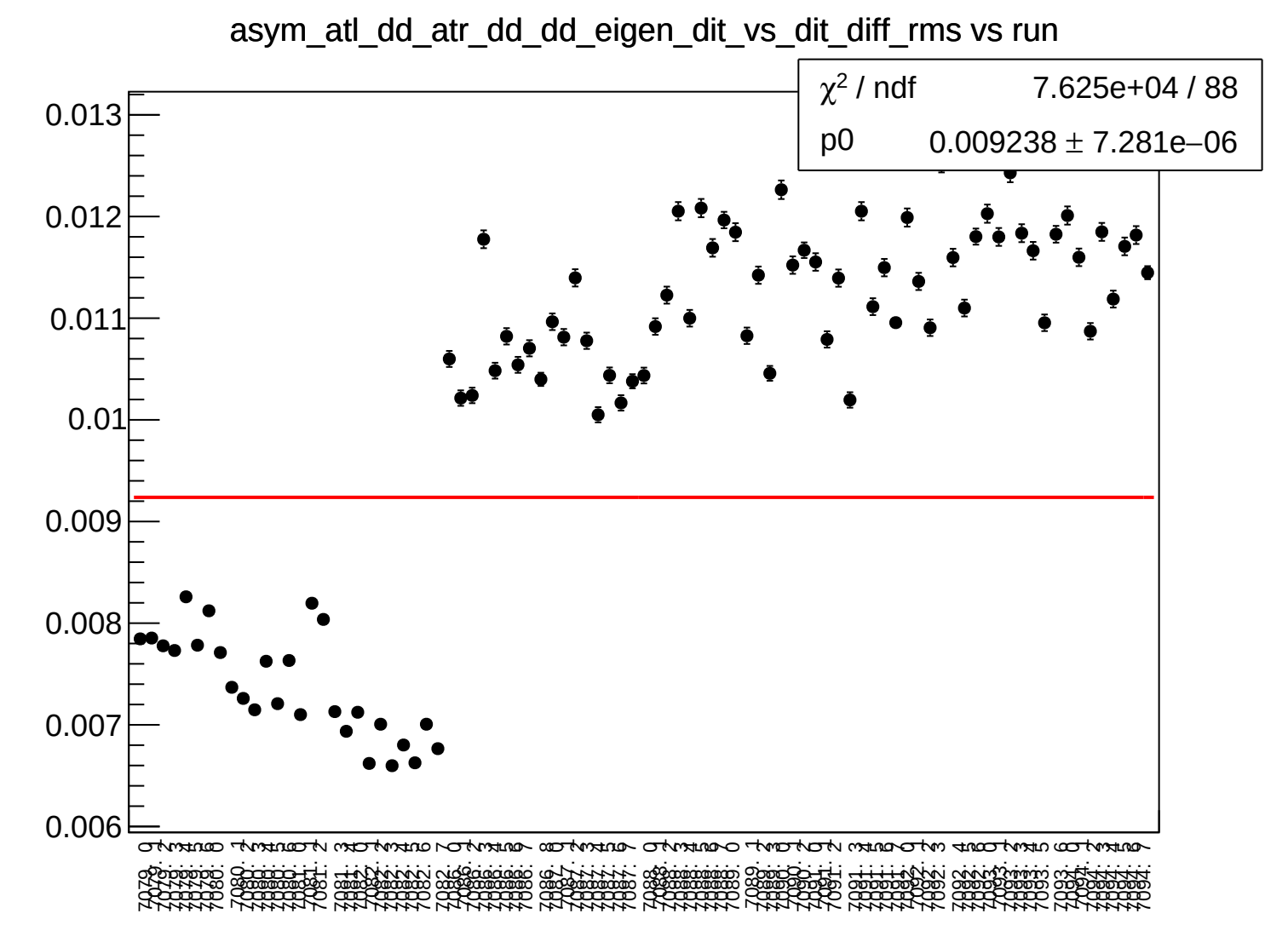

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.35 / 88
p0 0.02288 ± 0.05207
pull
Entries 89
Mean 124.3
Std Dev 0

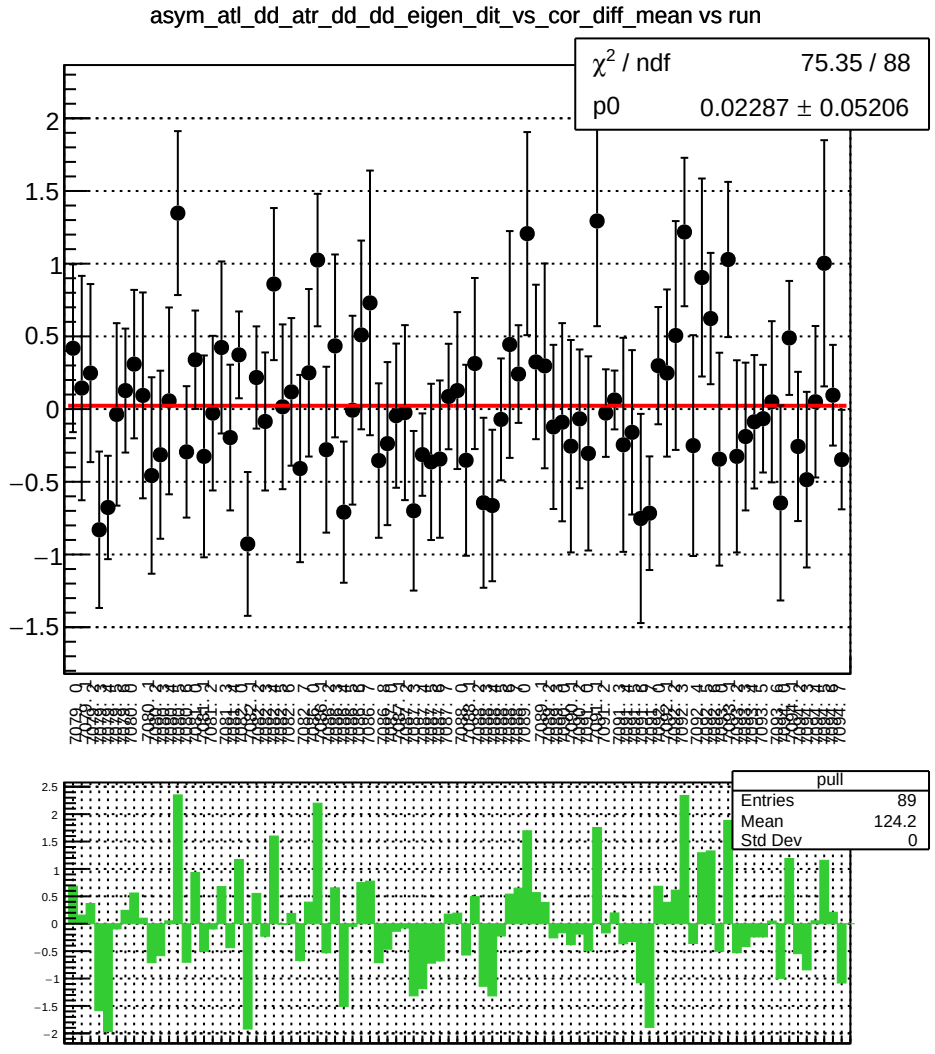

pull1D
Entries 89
Mean 0.01224
Std Dev 0.92

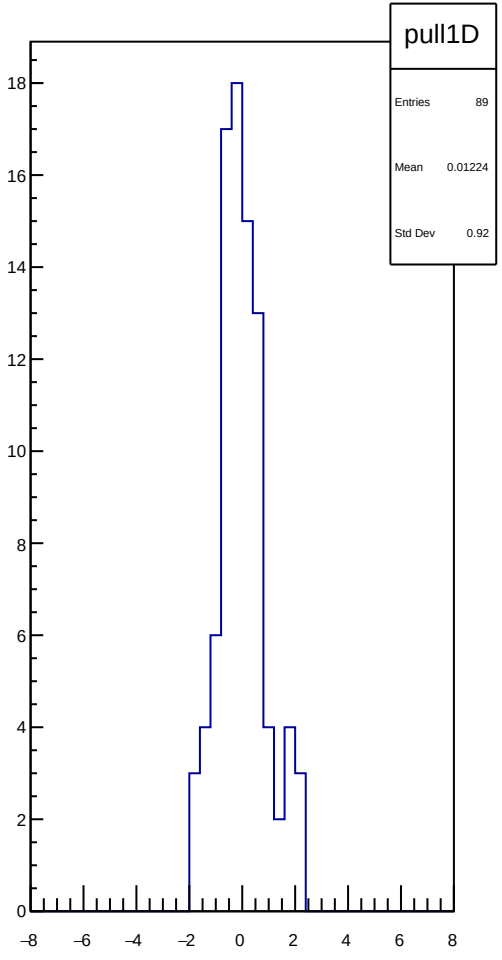

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 88
p0 45.77 ± 0.03682
90
80
70
60
50
40
30
20

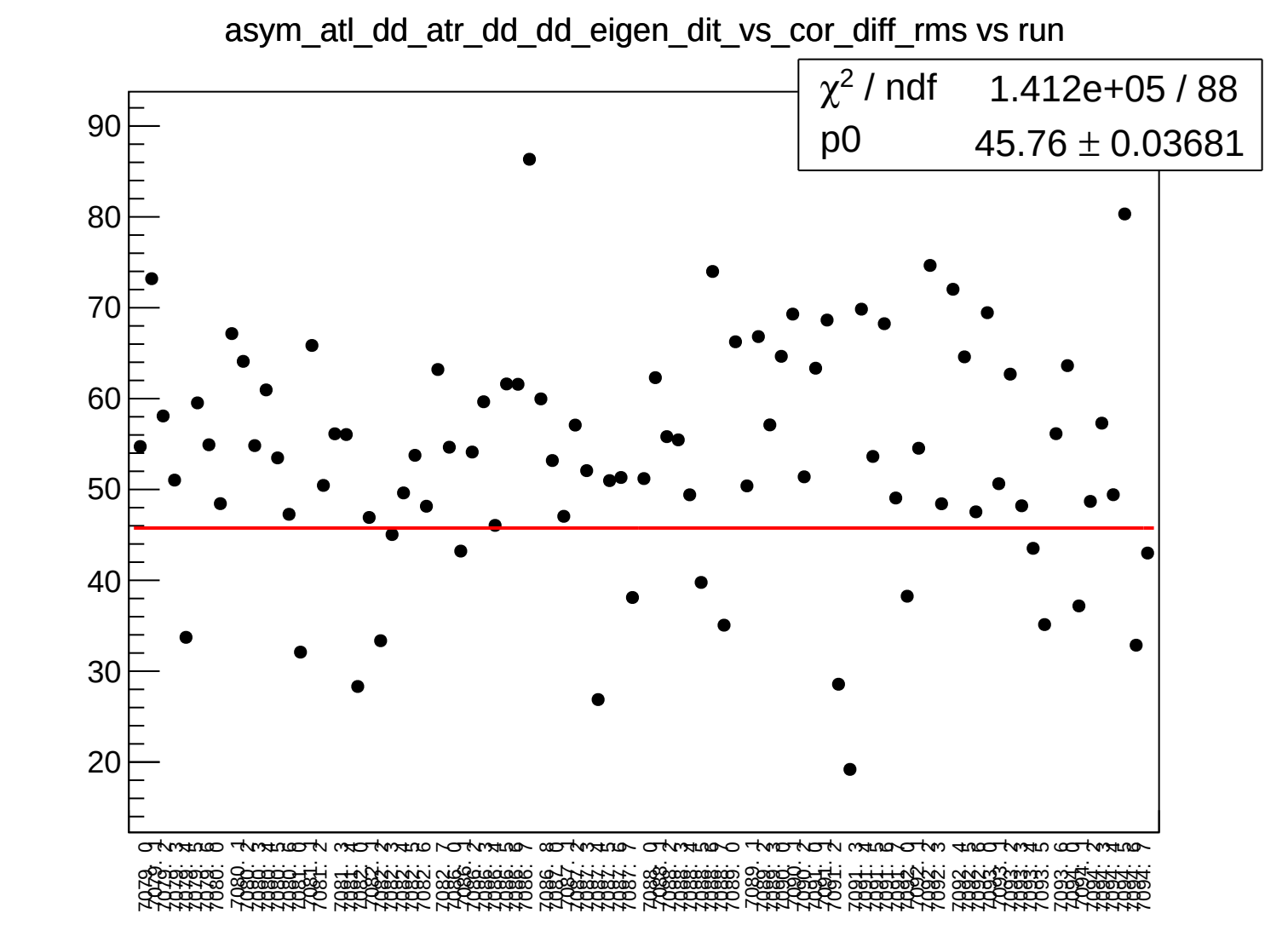

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.02 / 88
p0 −1.109e−05 ± 1.03e−05
pull
Entries 89
Mean −141.9
Std Dev 0

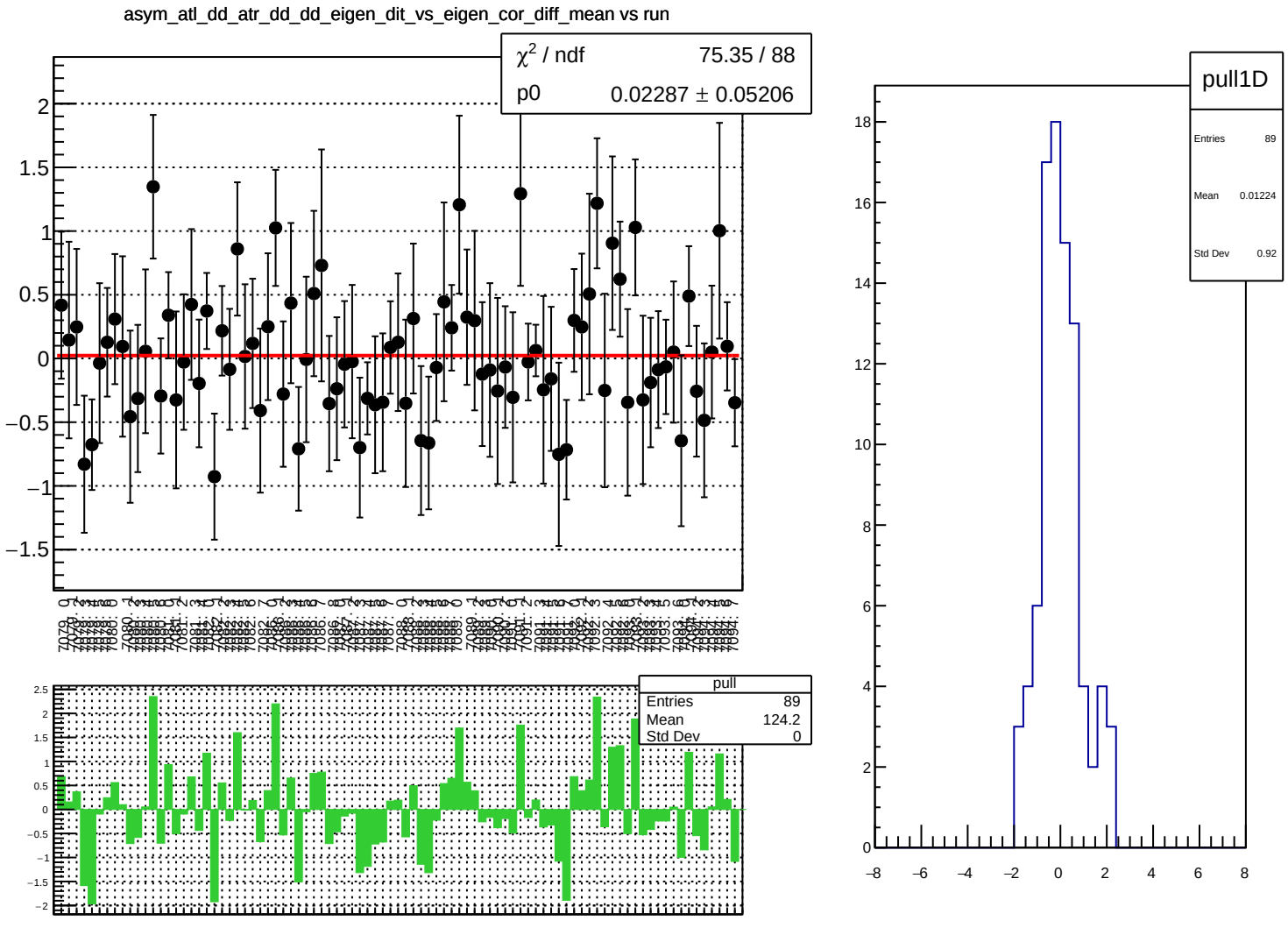

pull1D
Entries 89
Mean 0.003825
Std Dev 0.8742

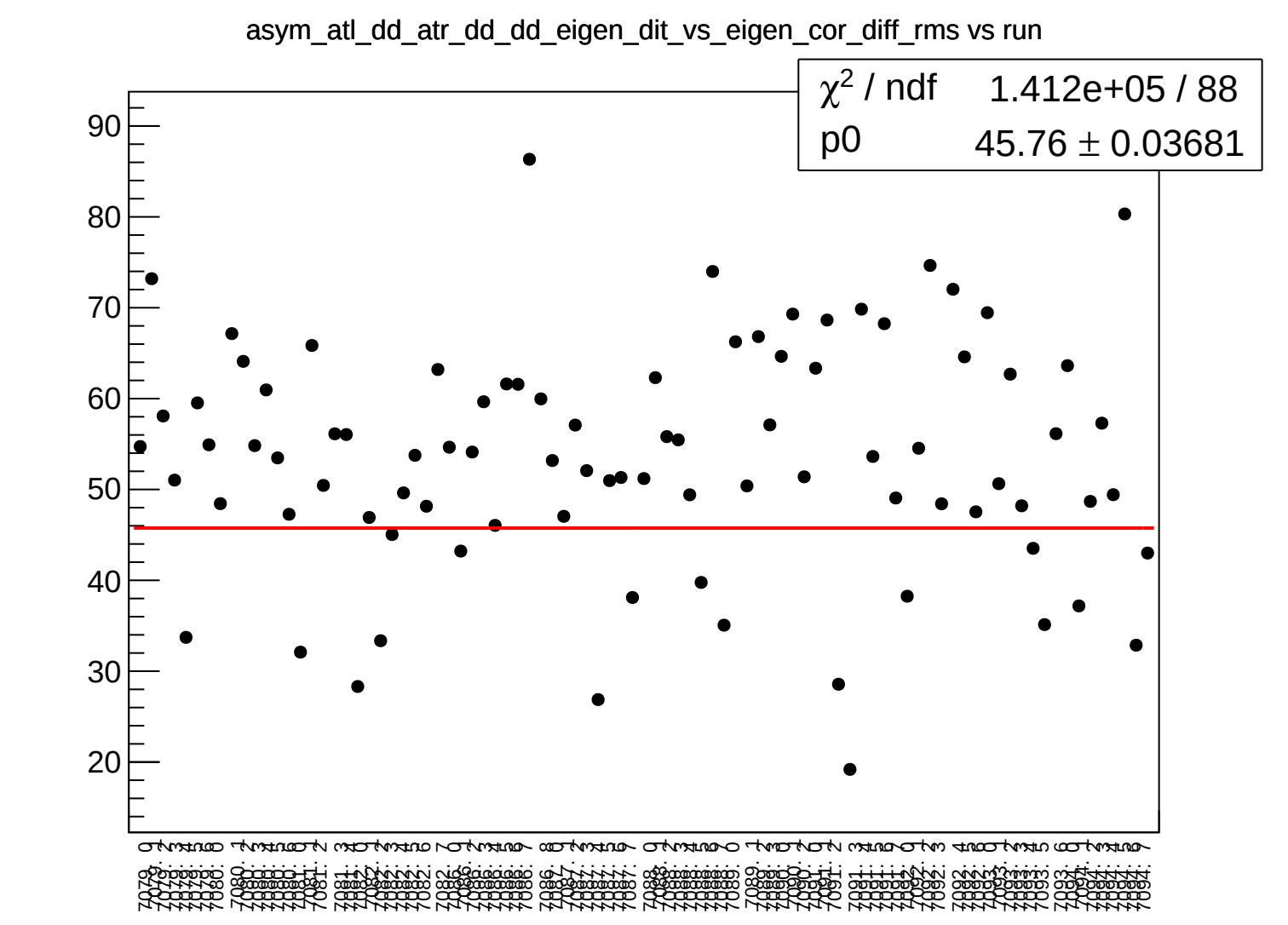

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.625e+04 / 88
p0 0.009238 ± 7.281e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

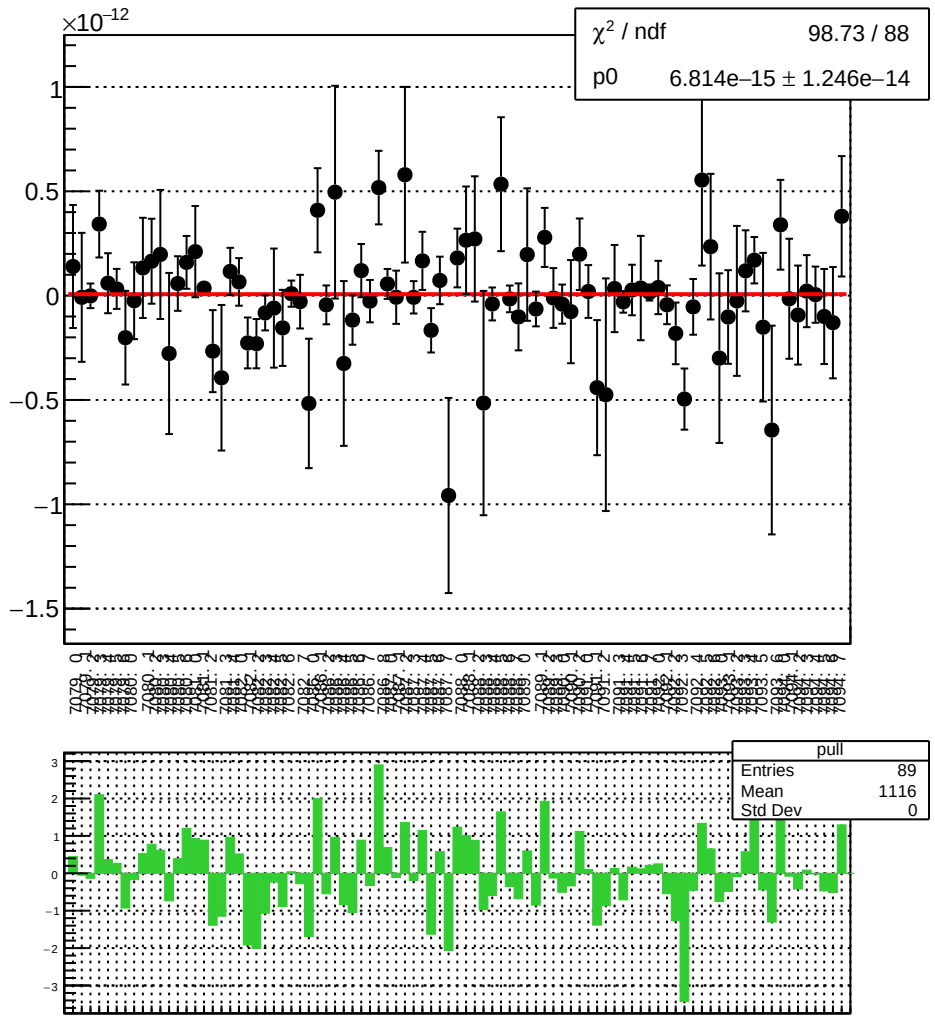

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.35 / 88
p0 0.02287 ± 0.05206
pull
Entries 89
Mean 124.2
Std Dev 0

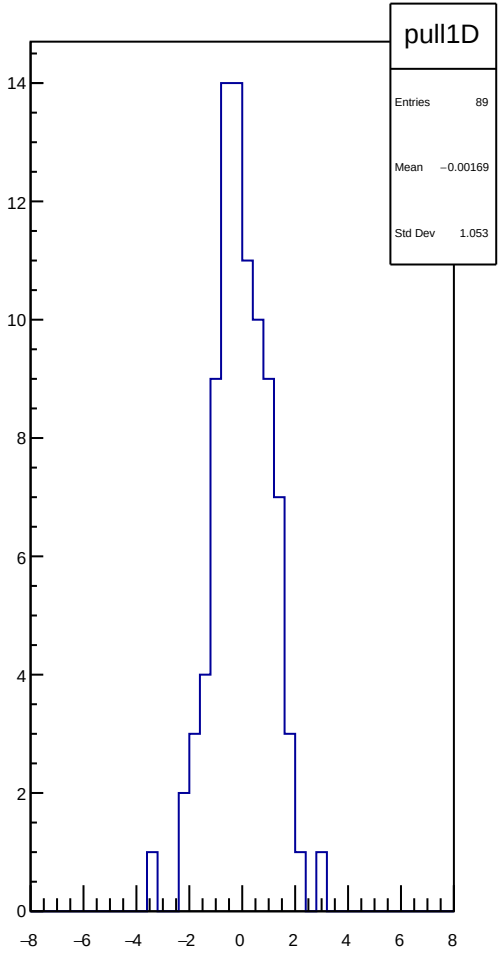

pull1D
Entries 89
Mean 0.01224
Std Dev 0.92

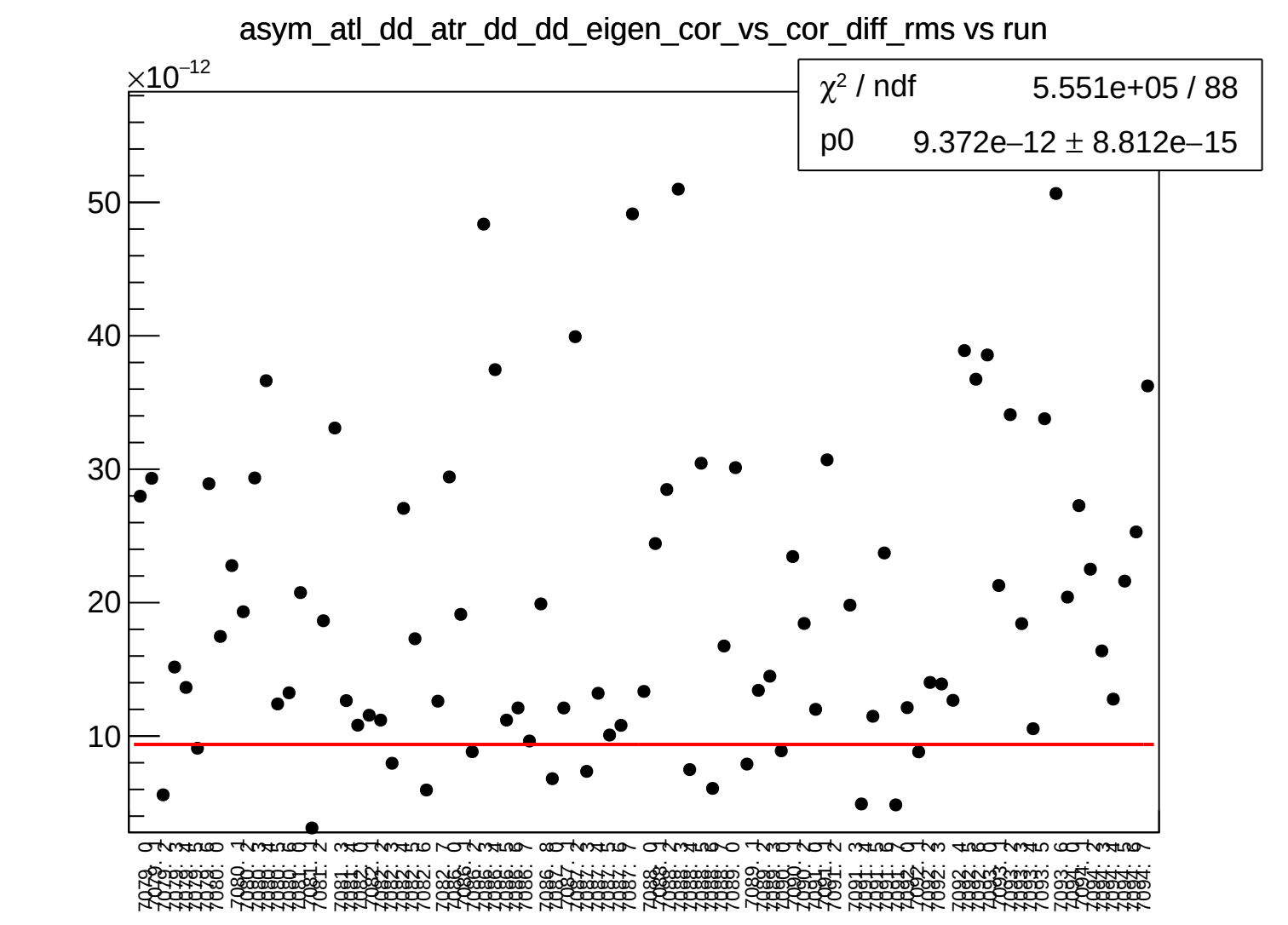

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 88
p0 45.76 ± 0.03681
90
80
70
60
50
40
30
20

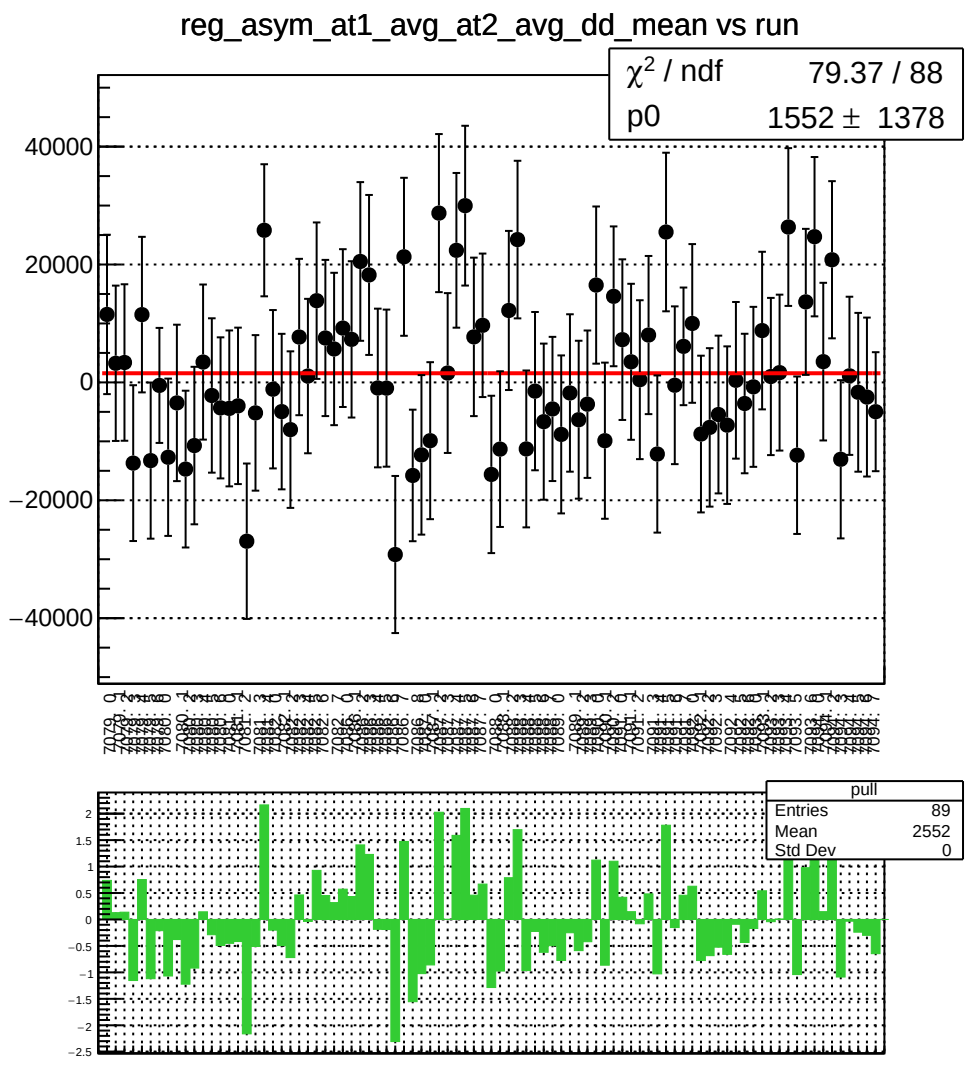

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.35 / 88
p0 0.02287 ± 0.05206
pull
Entries 89
Mean 124.2
Std Dev 0
pull1D
Entries 89
Mean 0.01224
Std Dev 0.92

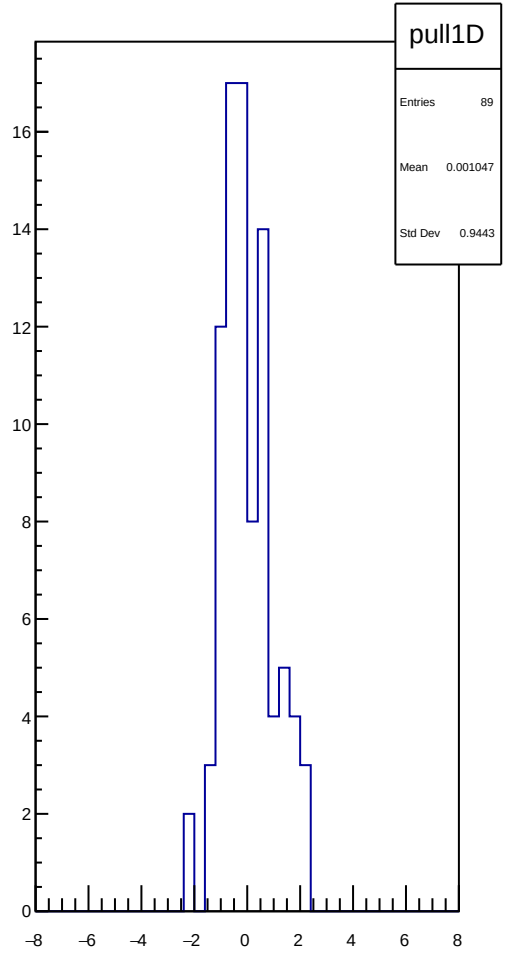

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 88
p0 45.76 ± 0.03681
90
80
70
60
50
40
30
20

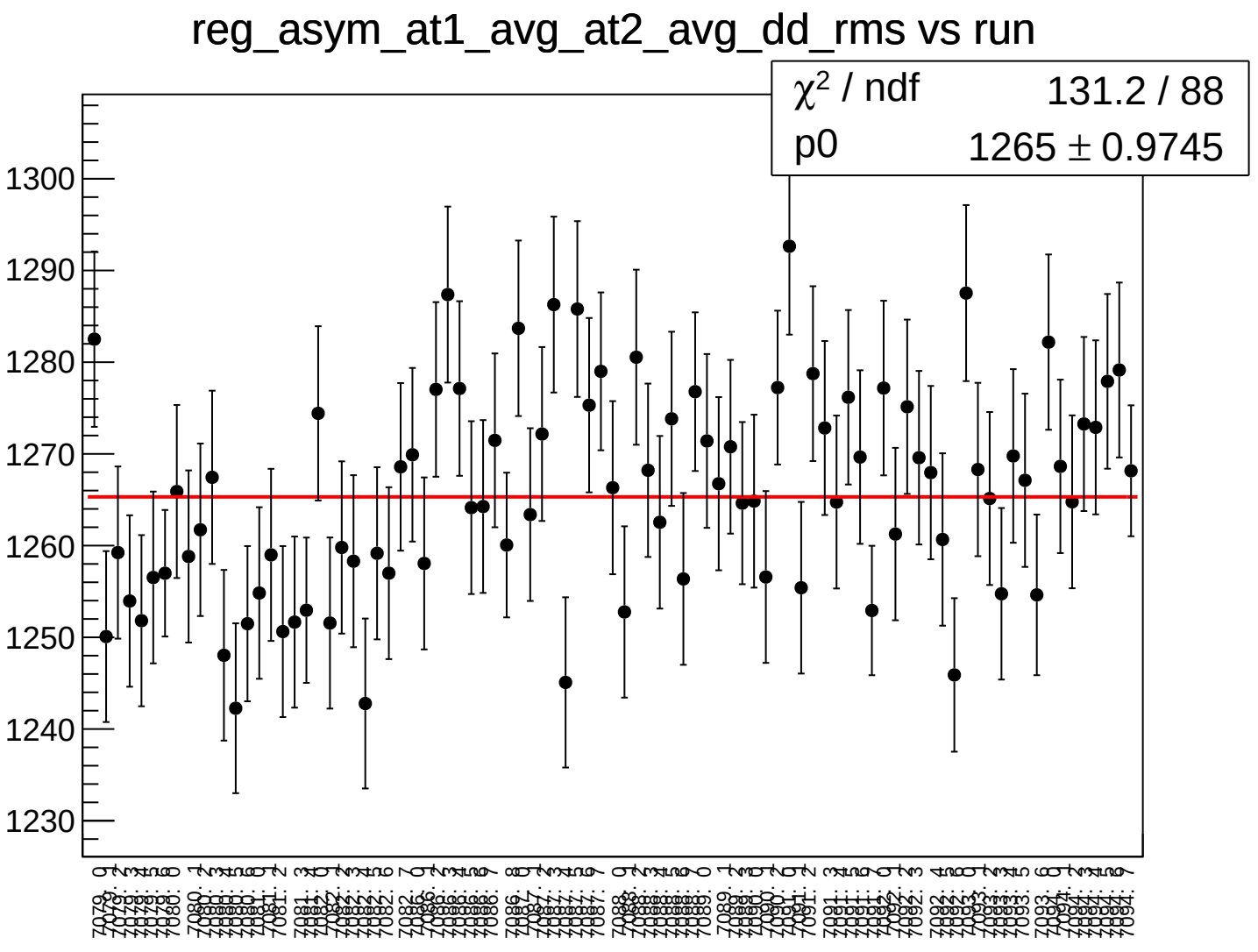

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.73 / 88
p0 6.814e−15 ± 1.246e−14
pull
Entries 89
Mean 1116
Std Dev 0

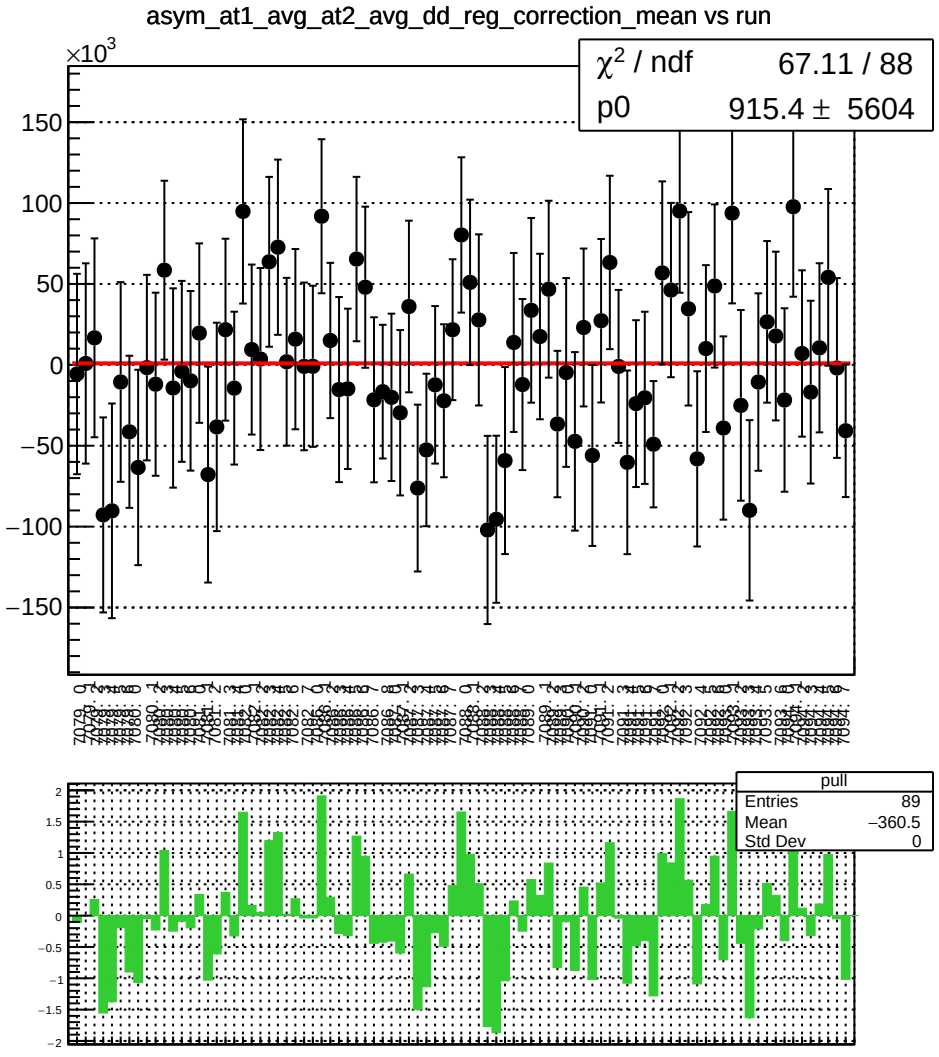

pull1D
Entries 89
Mean −0.00169
Std Dev 1.053

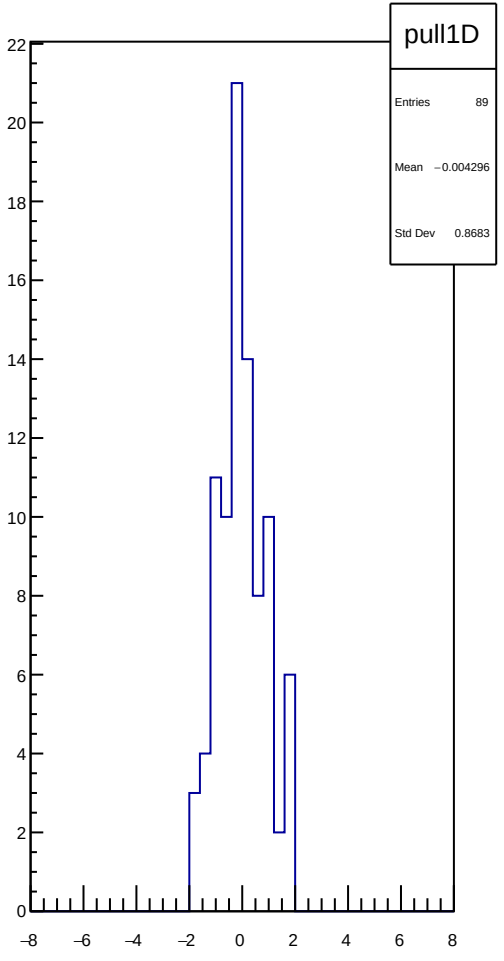

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.551e+05 / 88
p0 9.372e−12 ± 8.812e−15
50
40
30
20
10

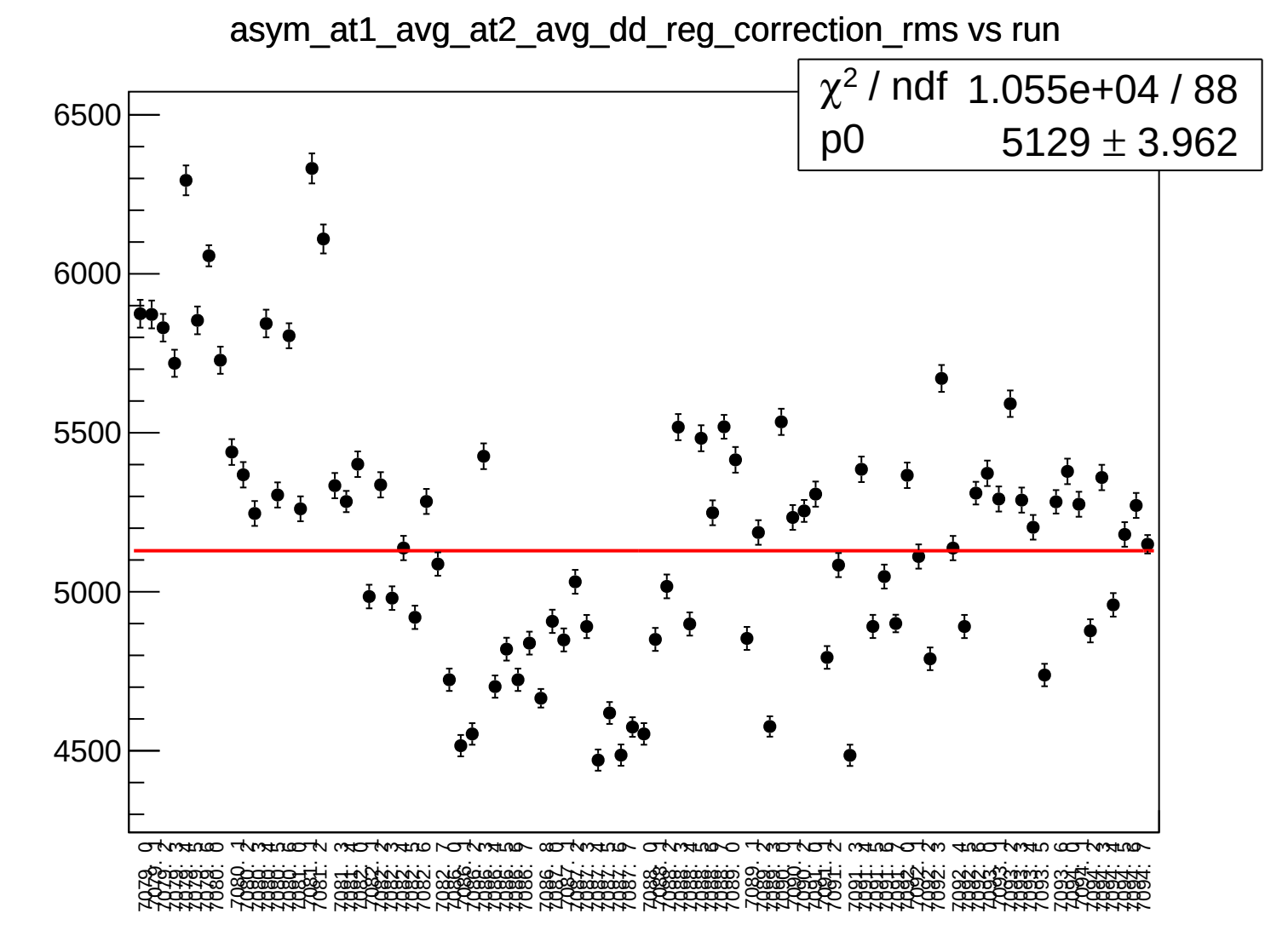

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 79.37 / 88
p0 1552 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2552
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

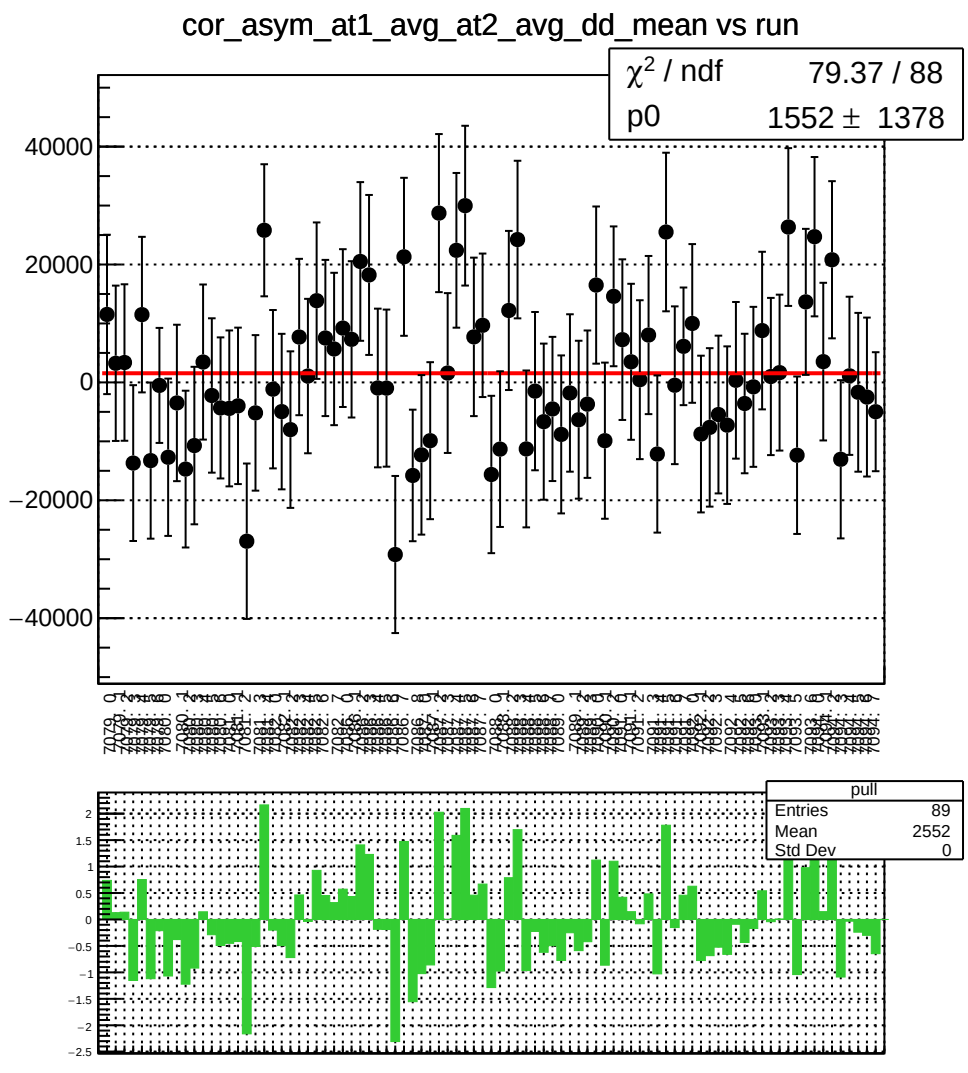

pull1D
Entries 89
Mean 0.001047
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

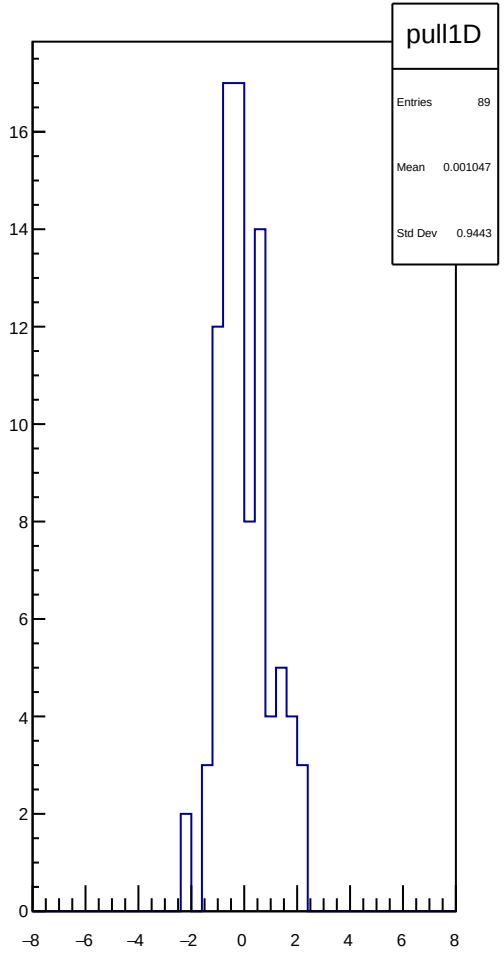

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 131.2 / 88
p0 1265 ± 0.9745
1300
1290
1280
1270
1260
1250
1240
1230

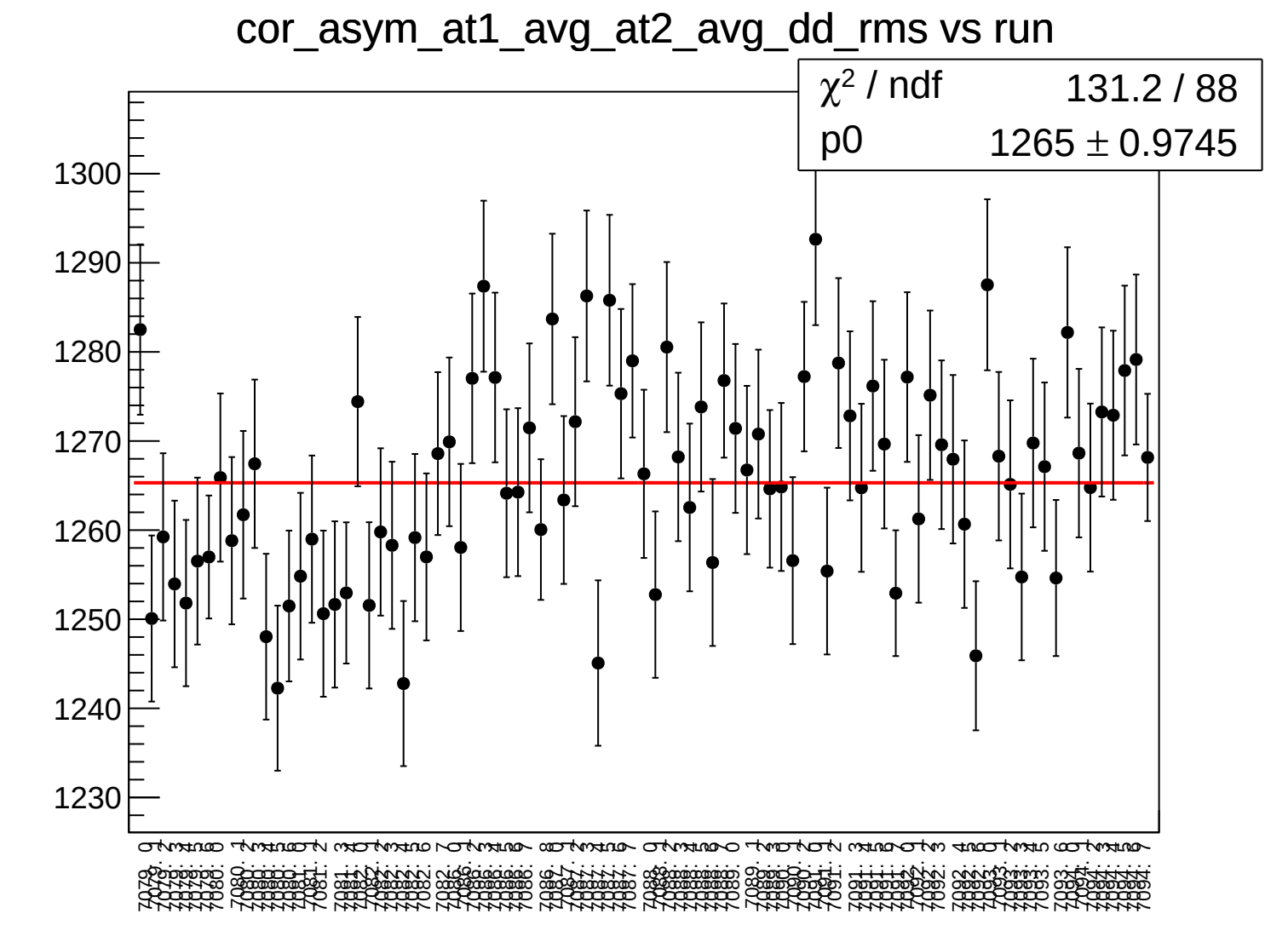

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 67.11 / 88
p0 915.4 ± 5604
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −360.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

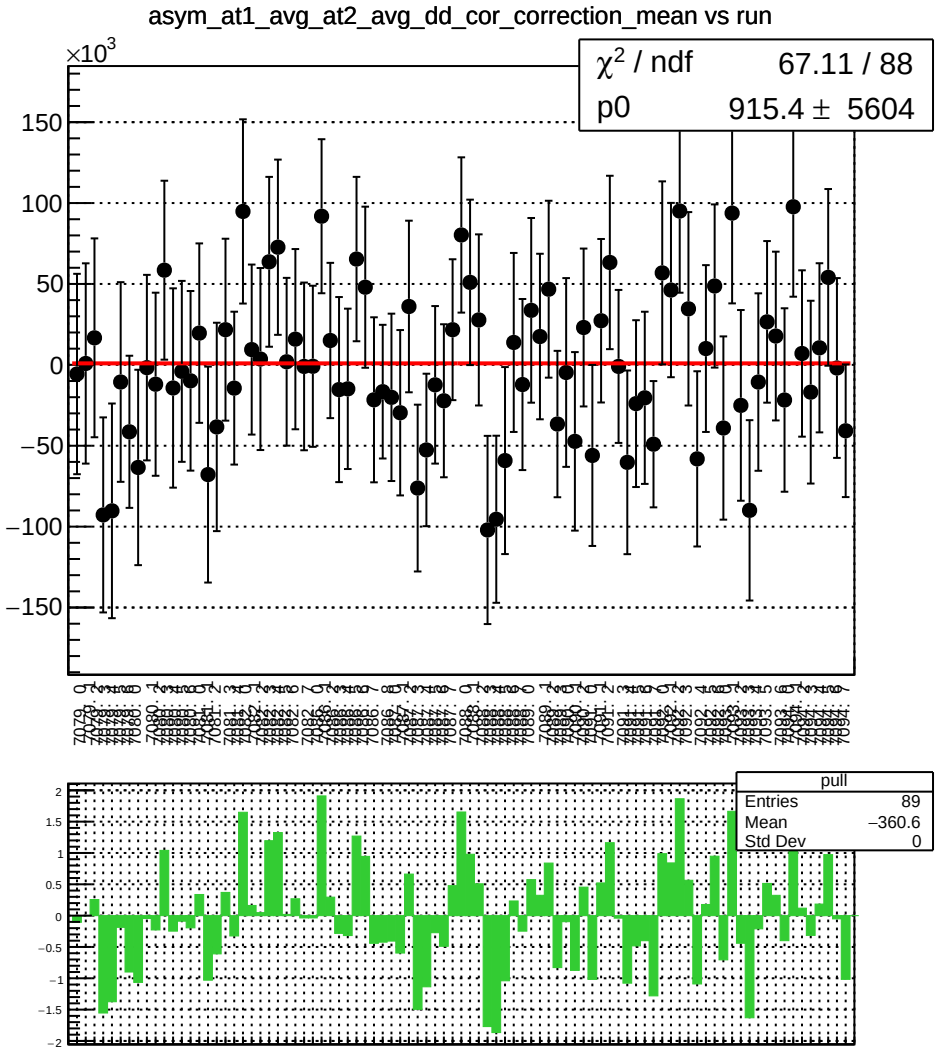

pull1D
Entries 89
Mean −0.004296
Std Dev 0.8683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

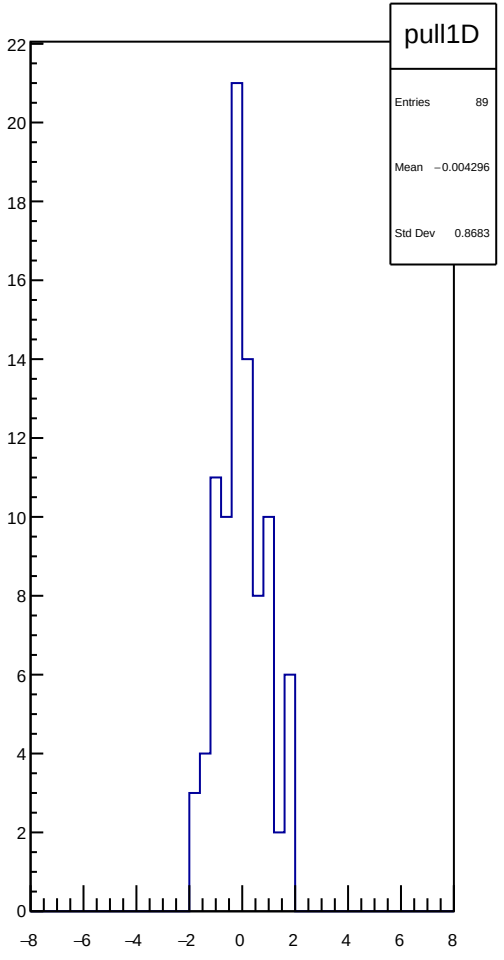

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.055e+04 / 88
p0 5129 ± 3.962
6500
6000
5500
5000
4500

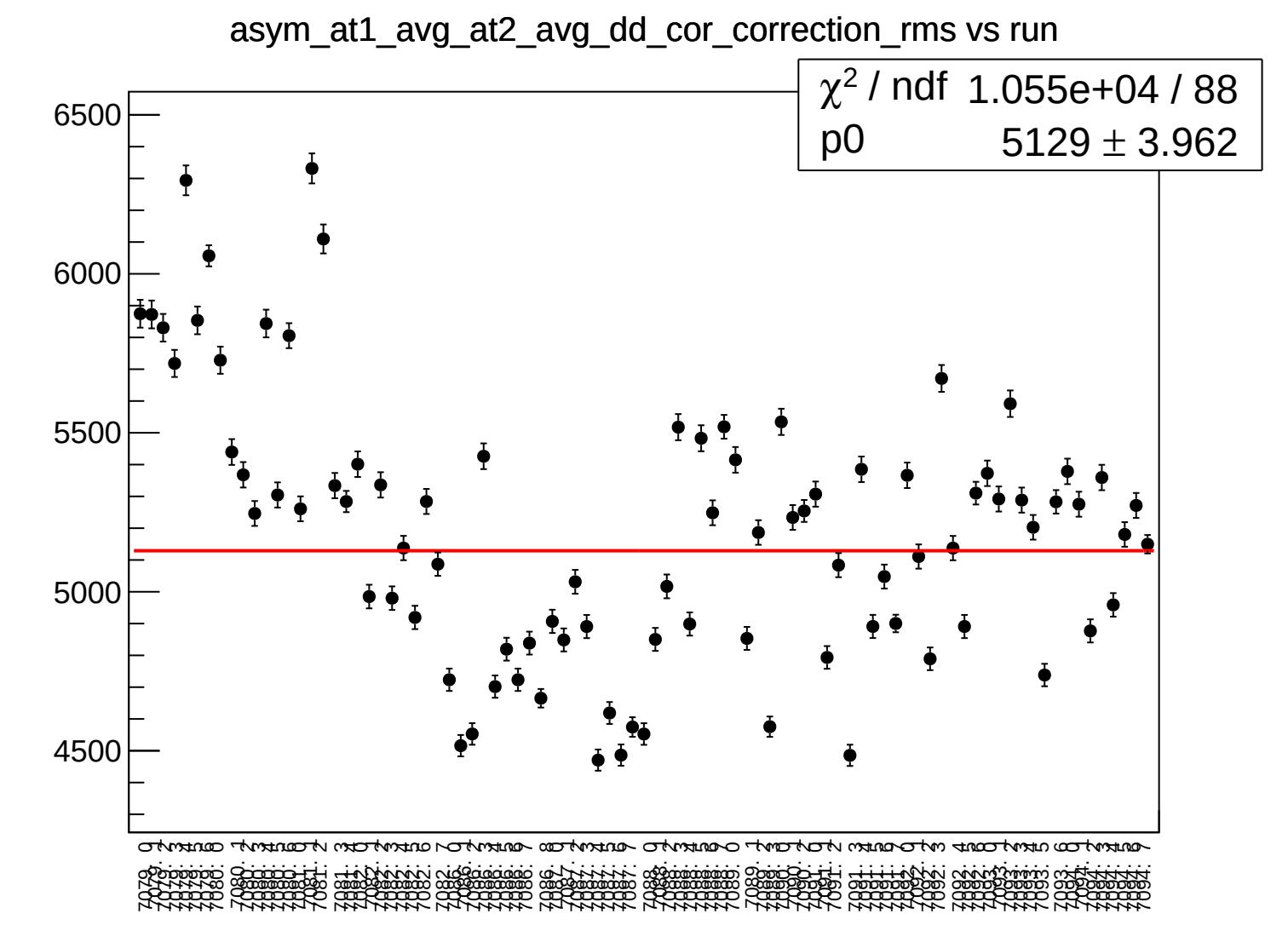

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 79.37 / 88
p0 1552 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2552
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

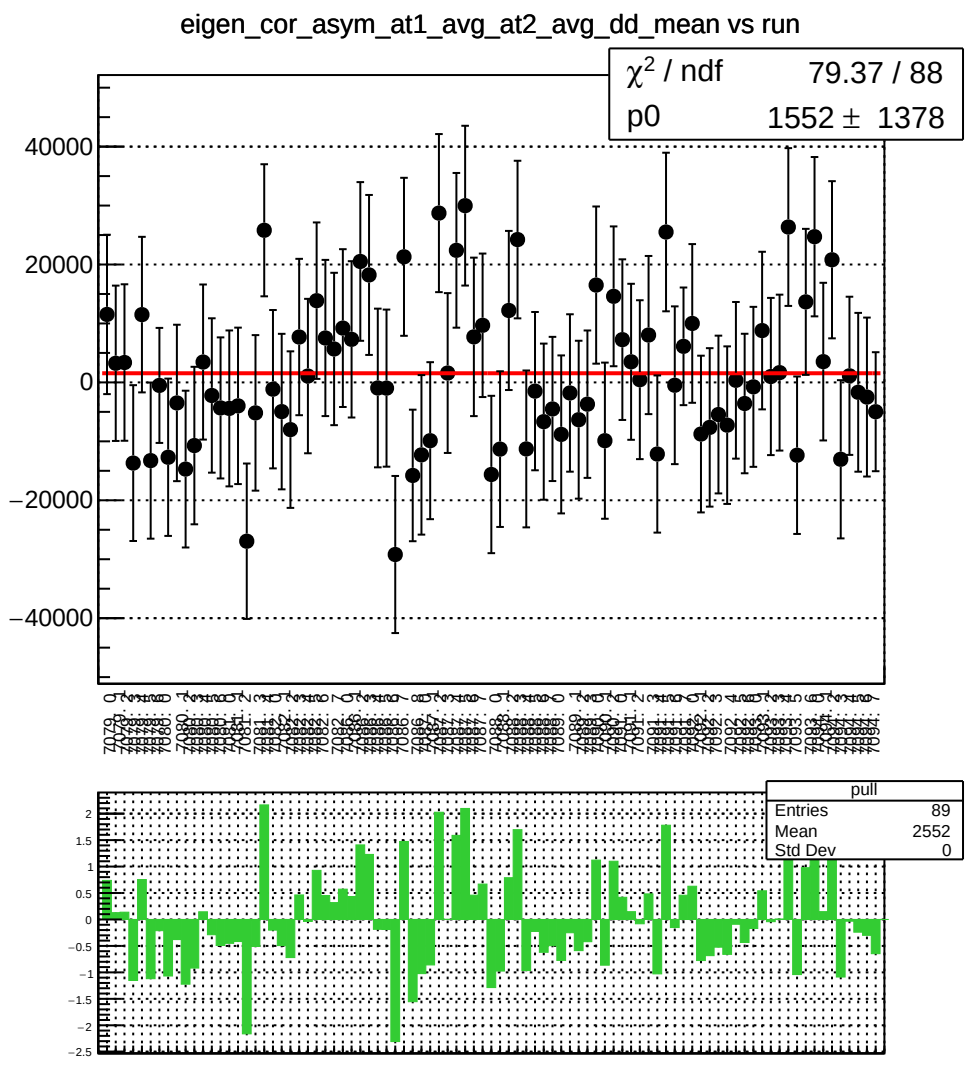

pull1D
Entries 89
Mean 0.001047
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

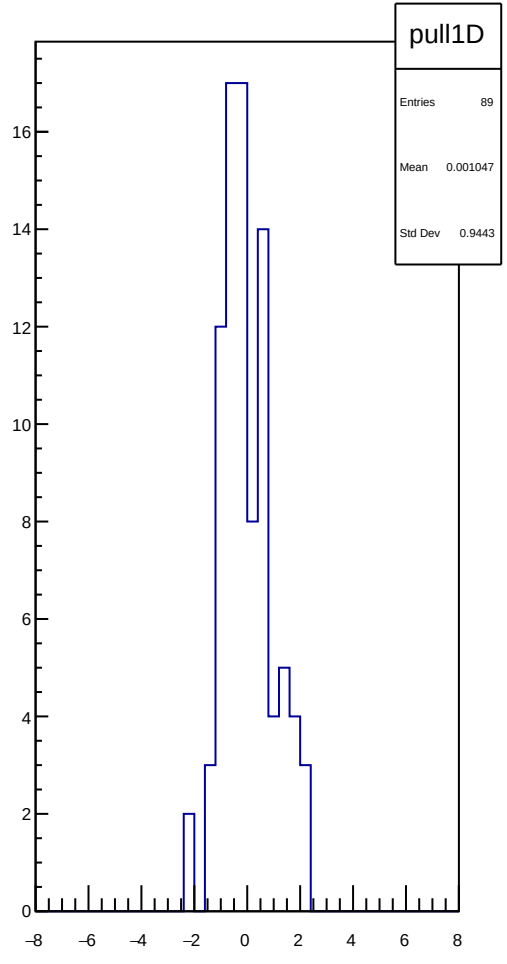

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 131.2 / 88
p0 1265 ± 0.9745
1300
1290
1280
1270
1260
1250
1240
1230

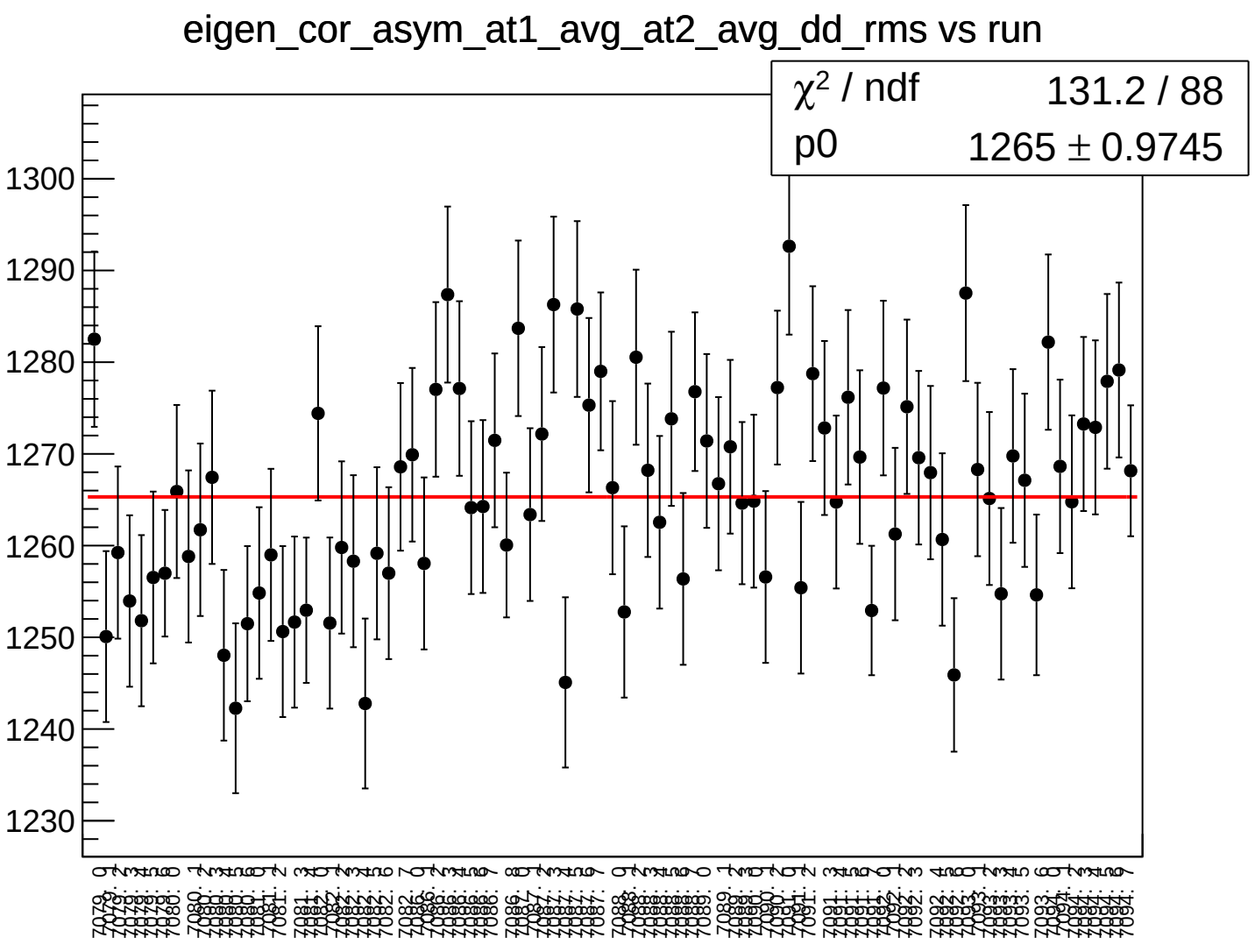

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 67.11 / 88
p0 915.4 ± 5604
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −360.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

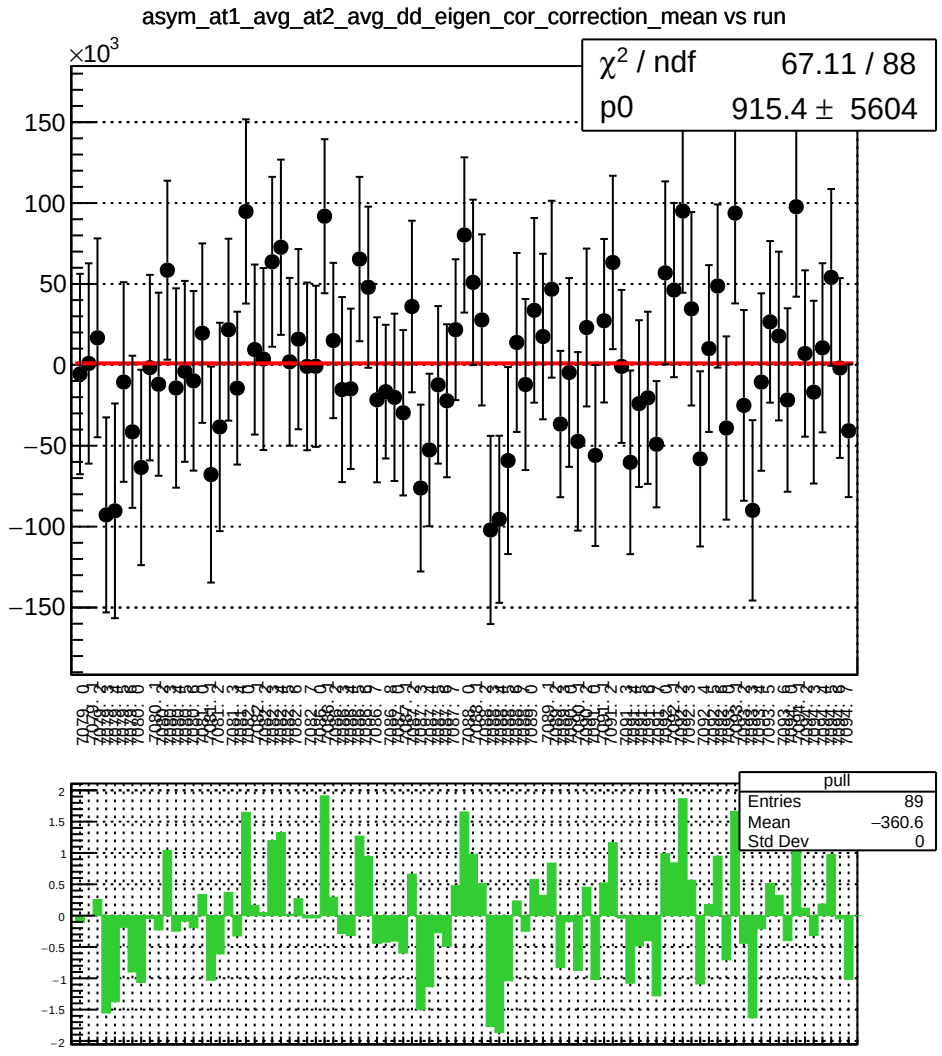

pull1D
Entries 89
Mean −0.004296
Std Dev 0.8683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

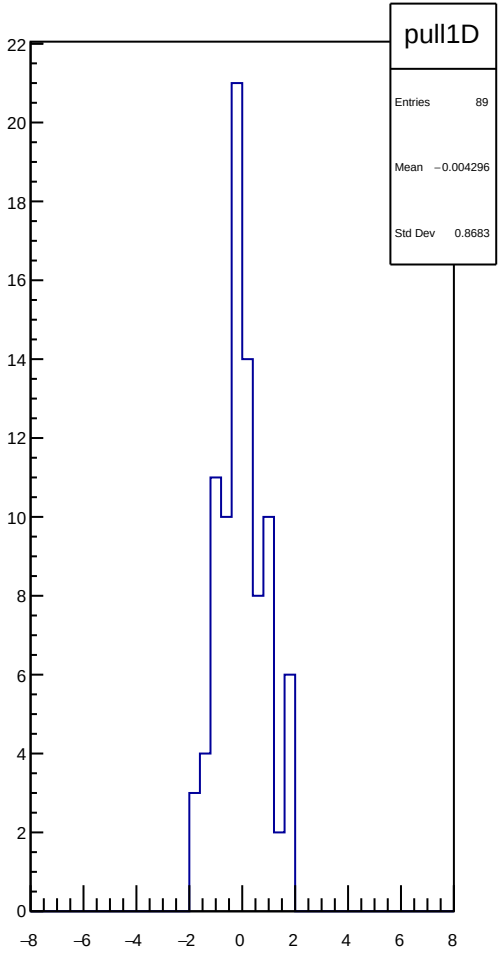

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.055e+04 / 88
p0 5129 ± 3.962
6500
6000
5500
5000
4500

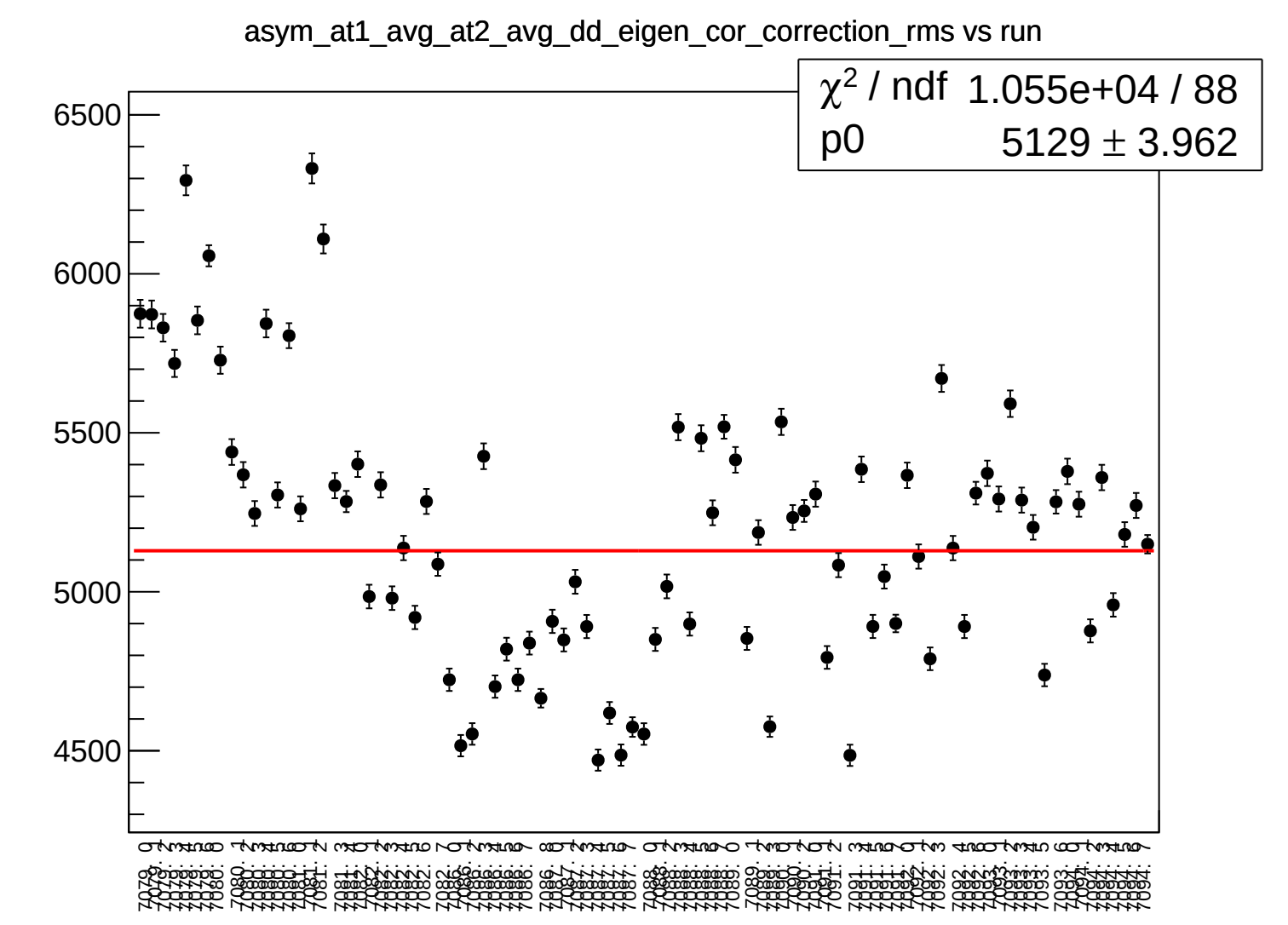

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 79.37 / 88
p0 1552 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2552
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

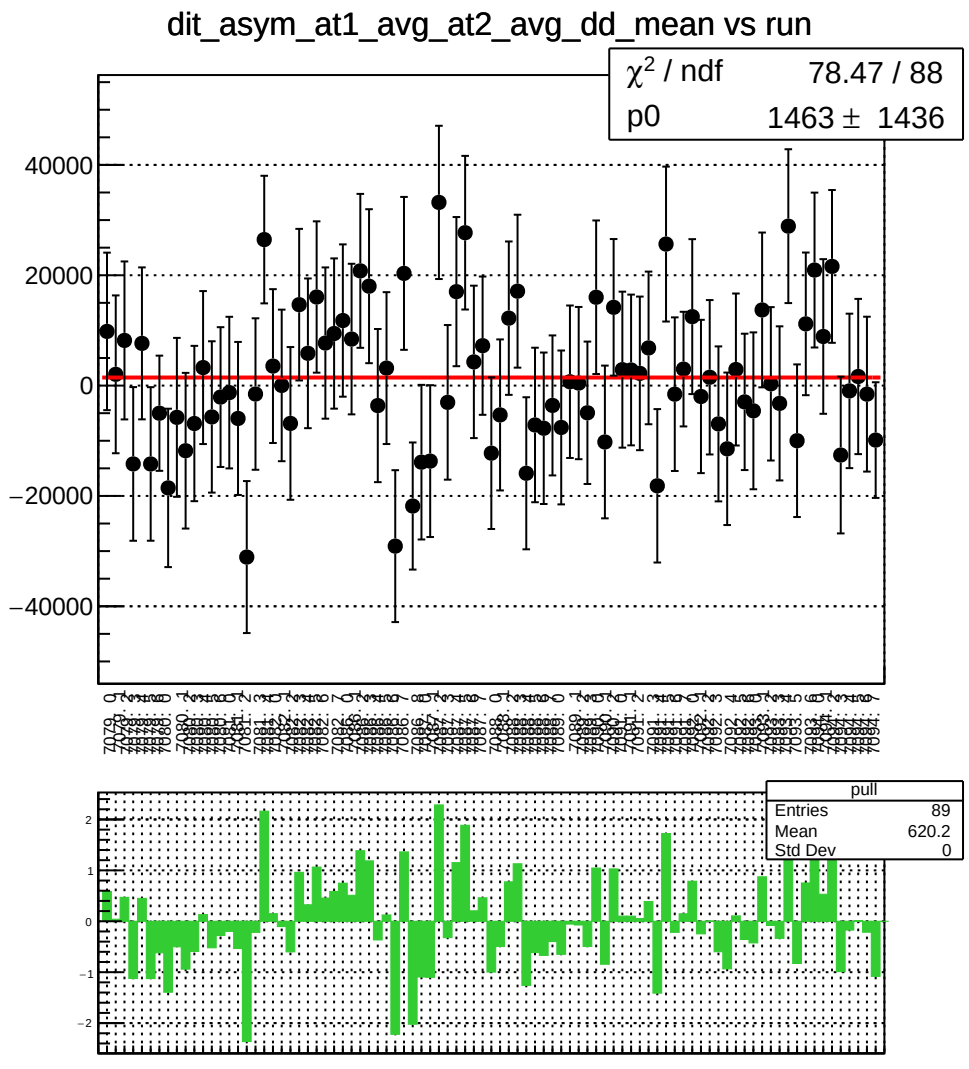

pull1D
Entries 89
Mean 0.001047
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

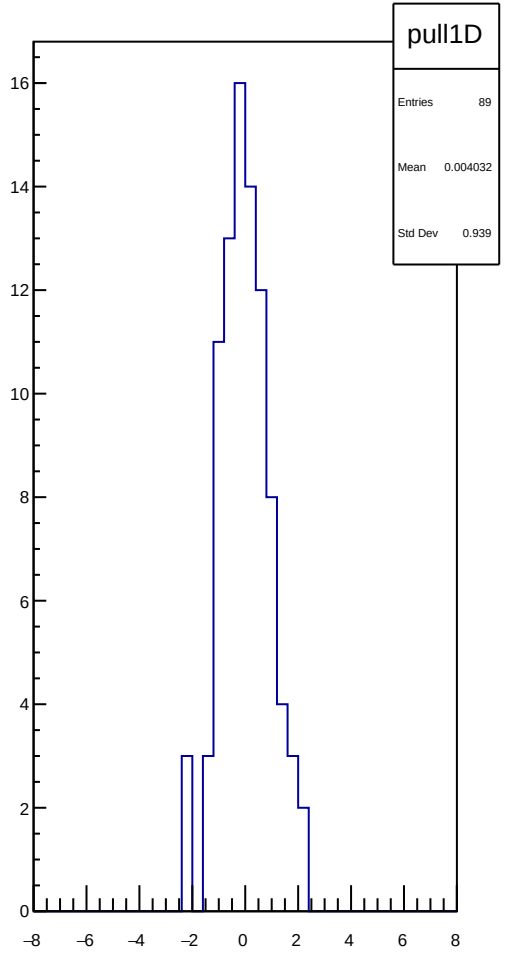

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 131.2 / 88
p0 1265 ± 0.9745
1300
1290
1280
1270
1260
1250
1240
1230

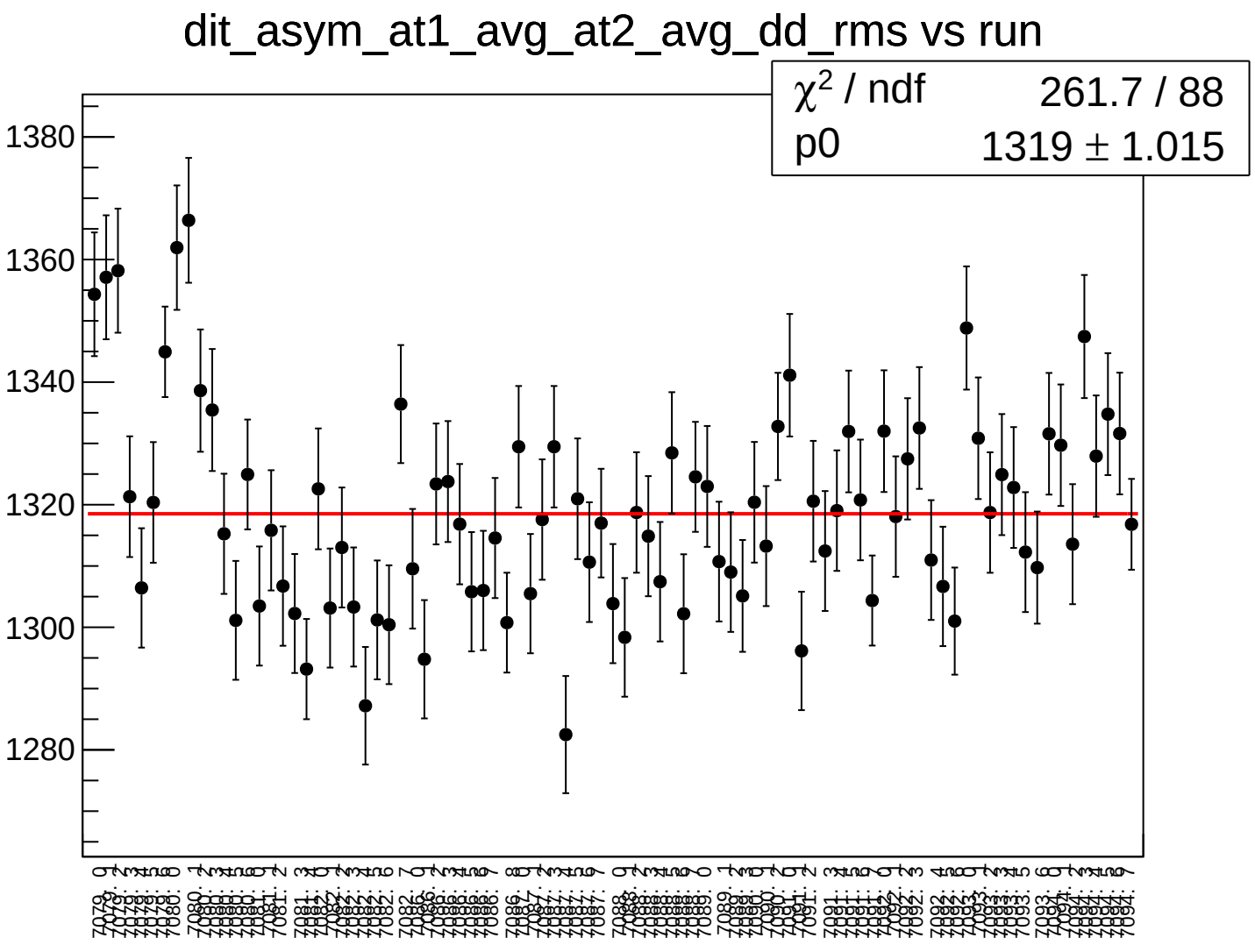

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.11 / 88
p0 915.4 ± 5604
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −360.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

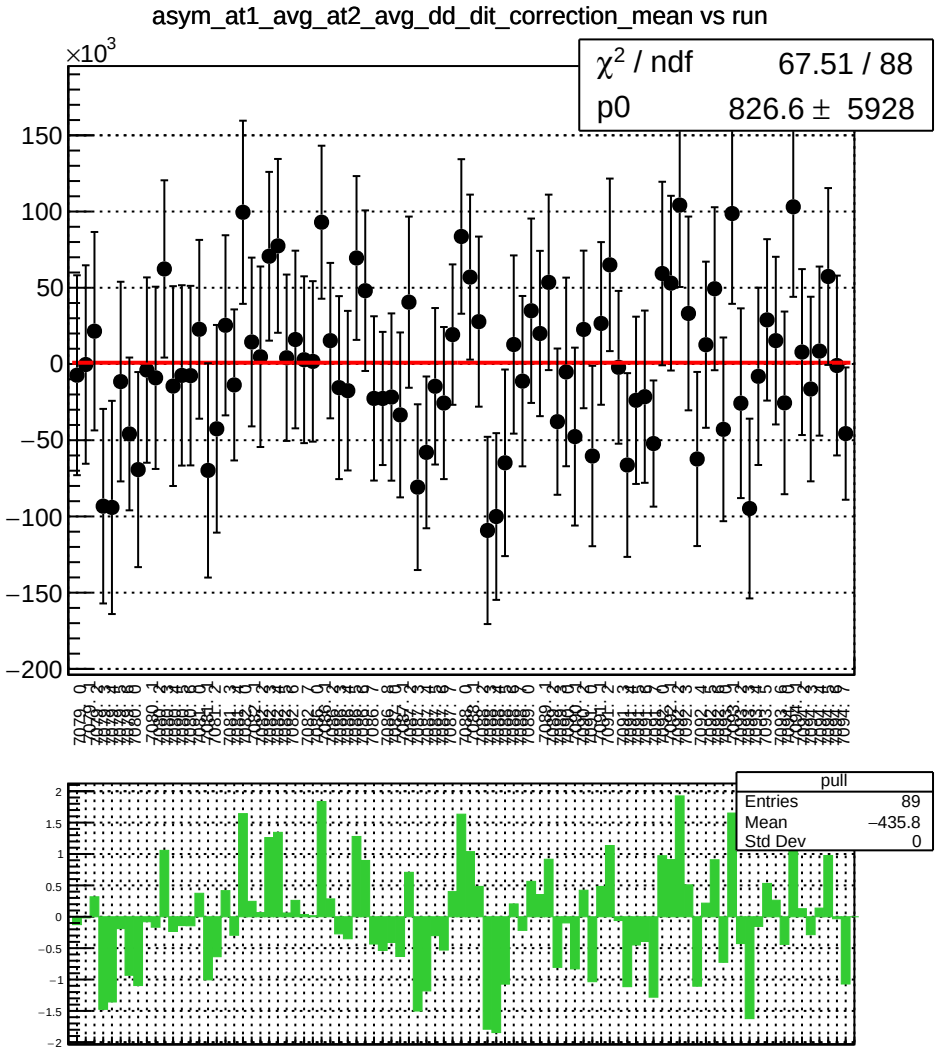

pull1D
Entries 89
Mean −0.004296
Std Dev 0.8683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

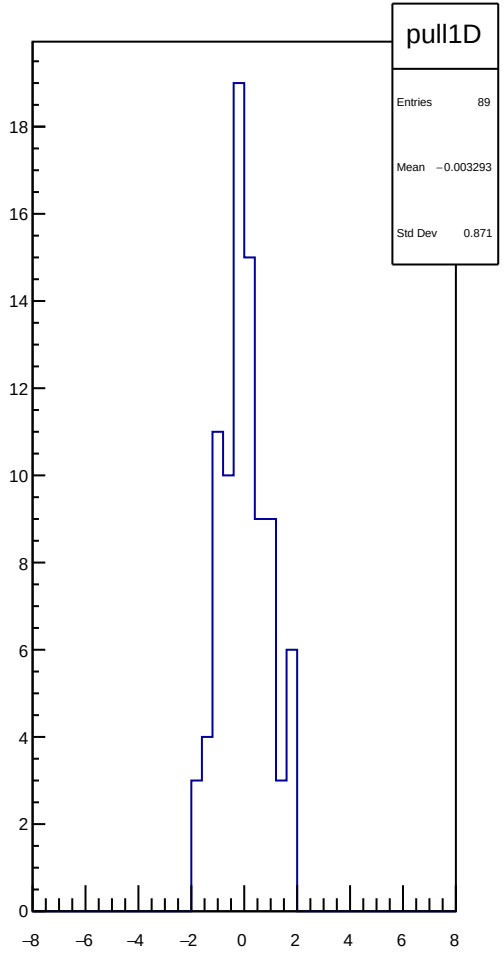

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.055e+04 / 88
p0 5129 ± 3.962
6500
6000
5500
5000
4500

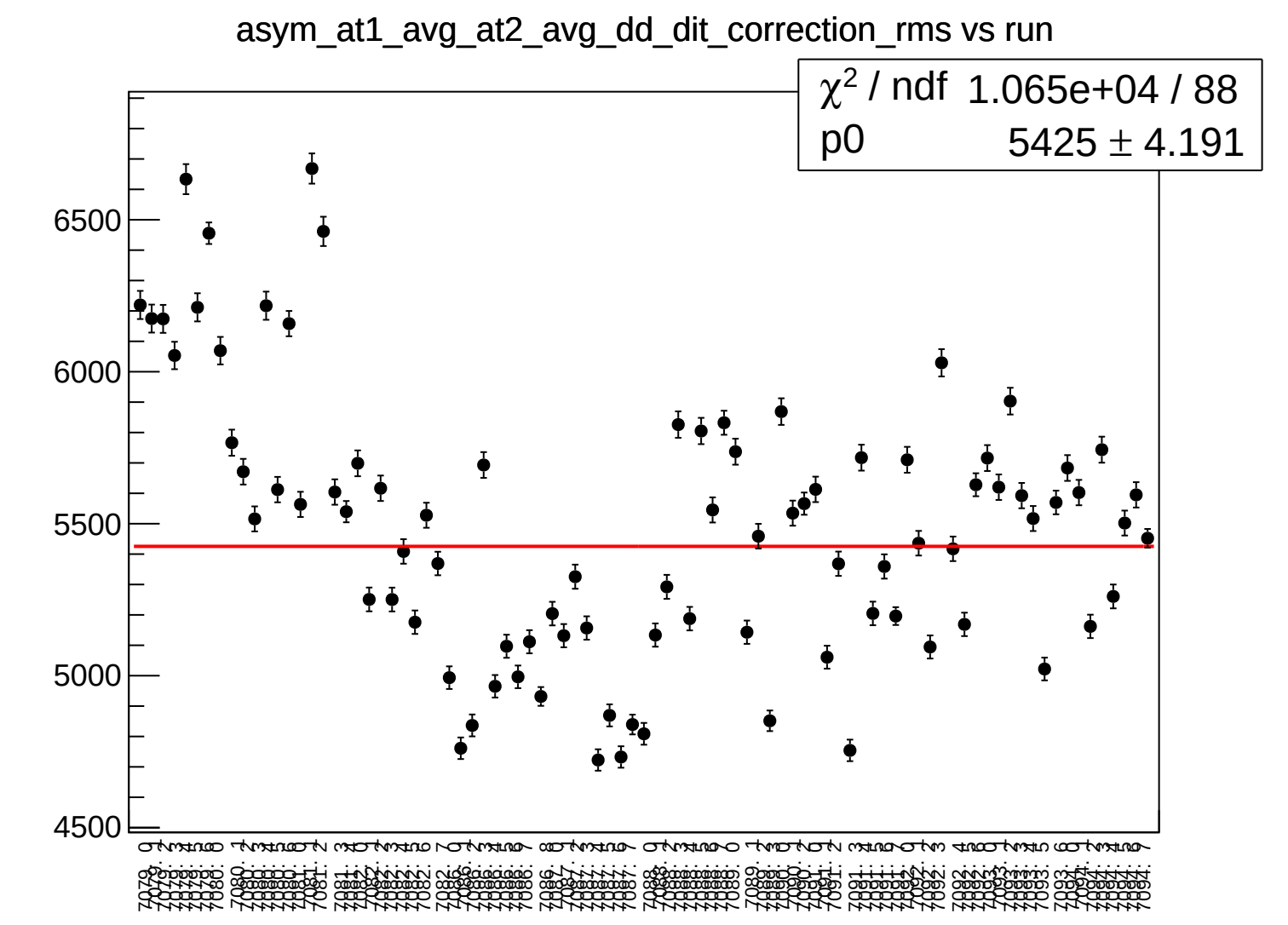

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.47 / 88
p0 1463 ± 1436
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 620.2
Std Dev 0
2
1
0
−1
−2

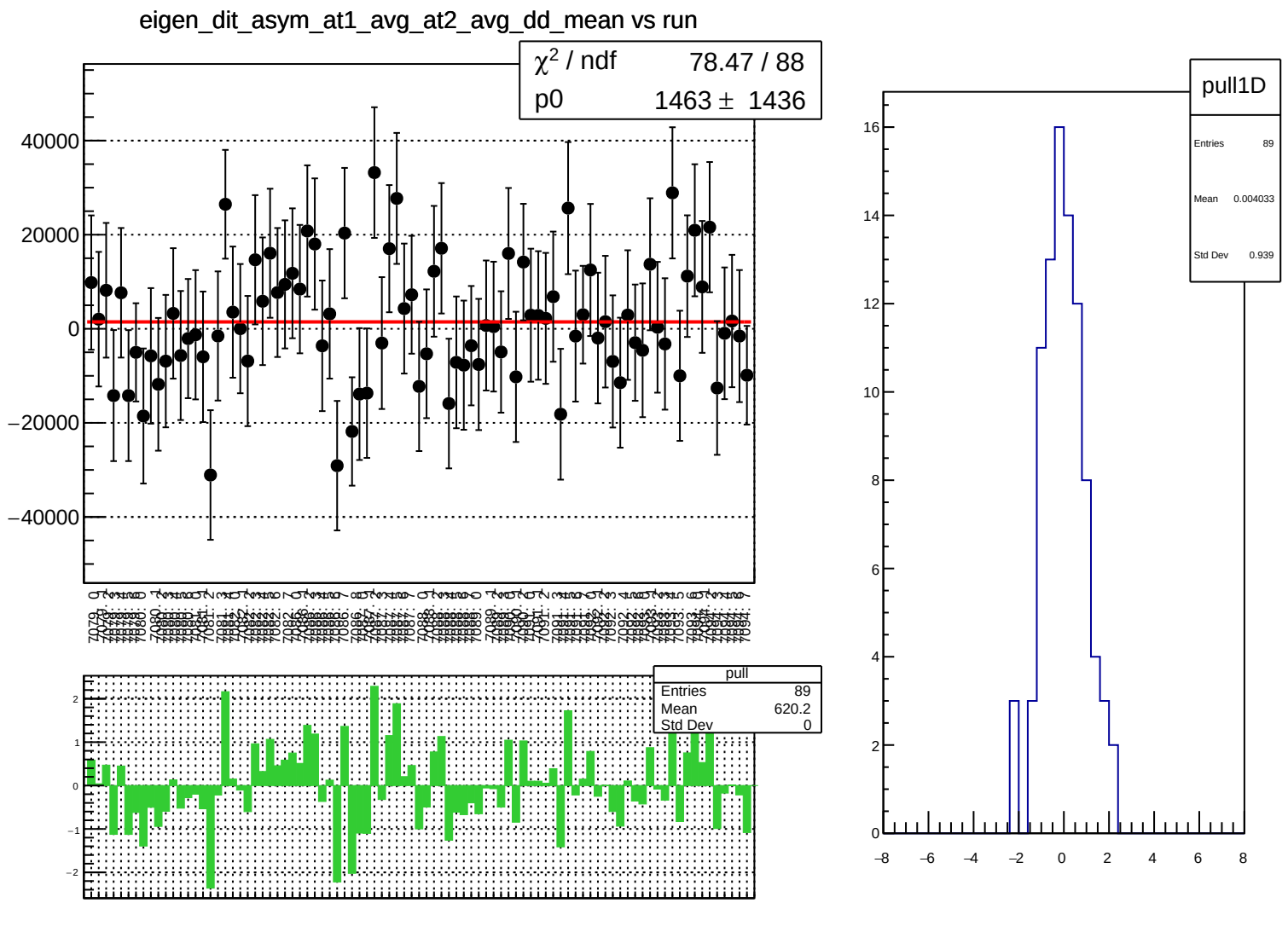

pull1D
Entries 89
Mean 0.004032
Std Dev 0.939
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

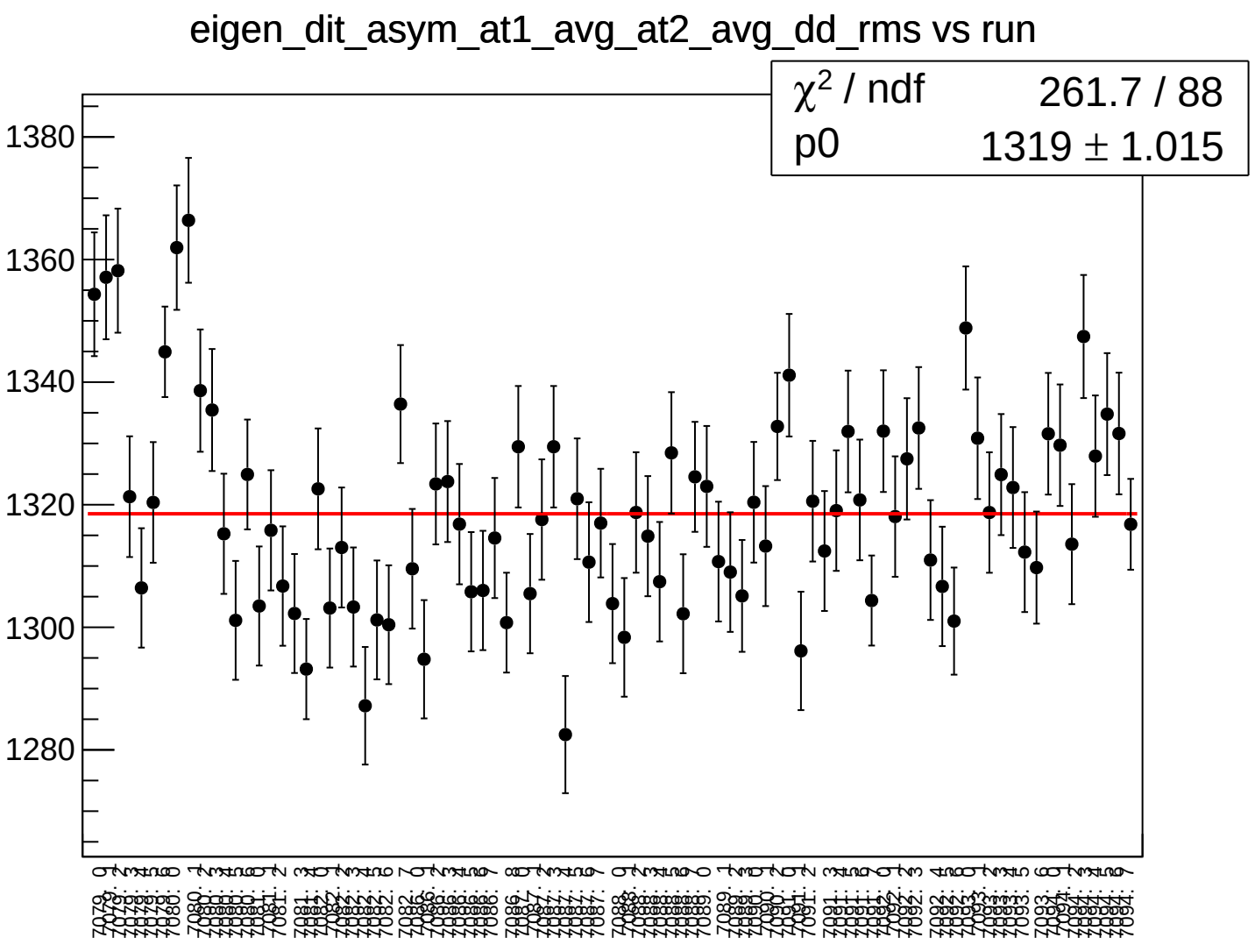

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 261.7 / 88
p0 1319 ± 1.015
1380
1360
1340
1320
1300
1280

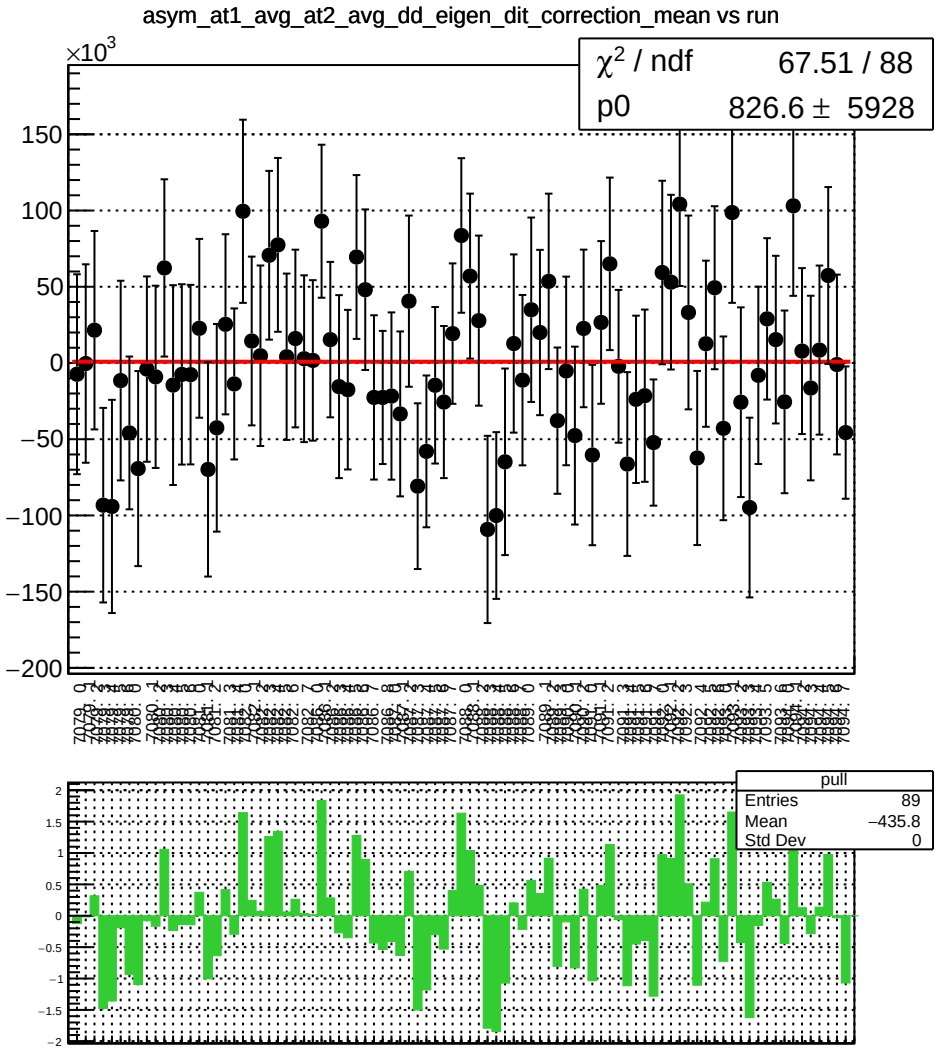

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 67.51 / 88
p0 826.6 ± 5928
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −435.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

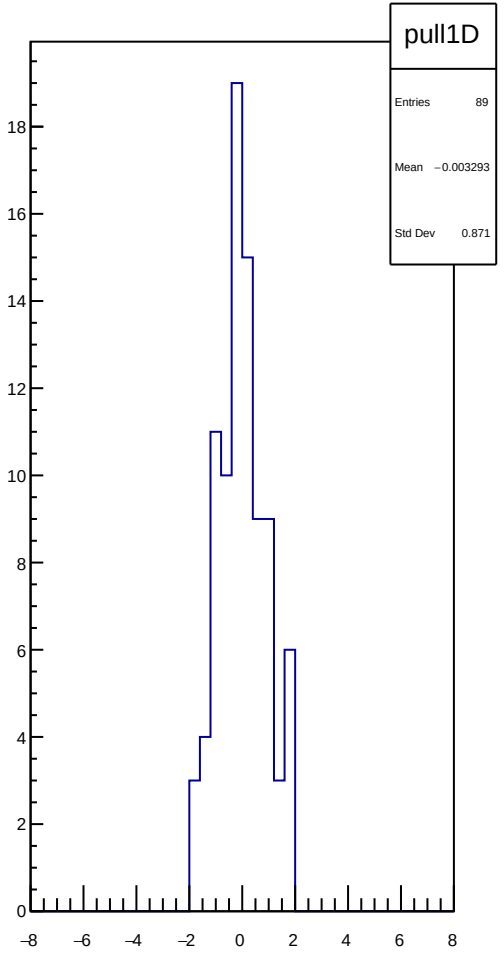

pull1D
Entries 89
Mean −0.003293
Std Dev 0.871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.065e+04 / 88
p0 5425 ± 4.191
6500
6000
5500
5000
4500

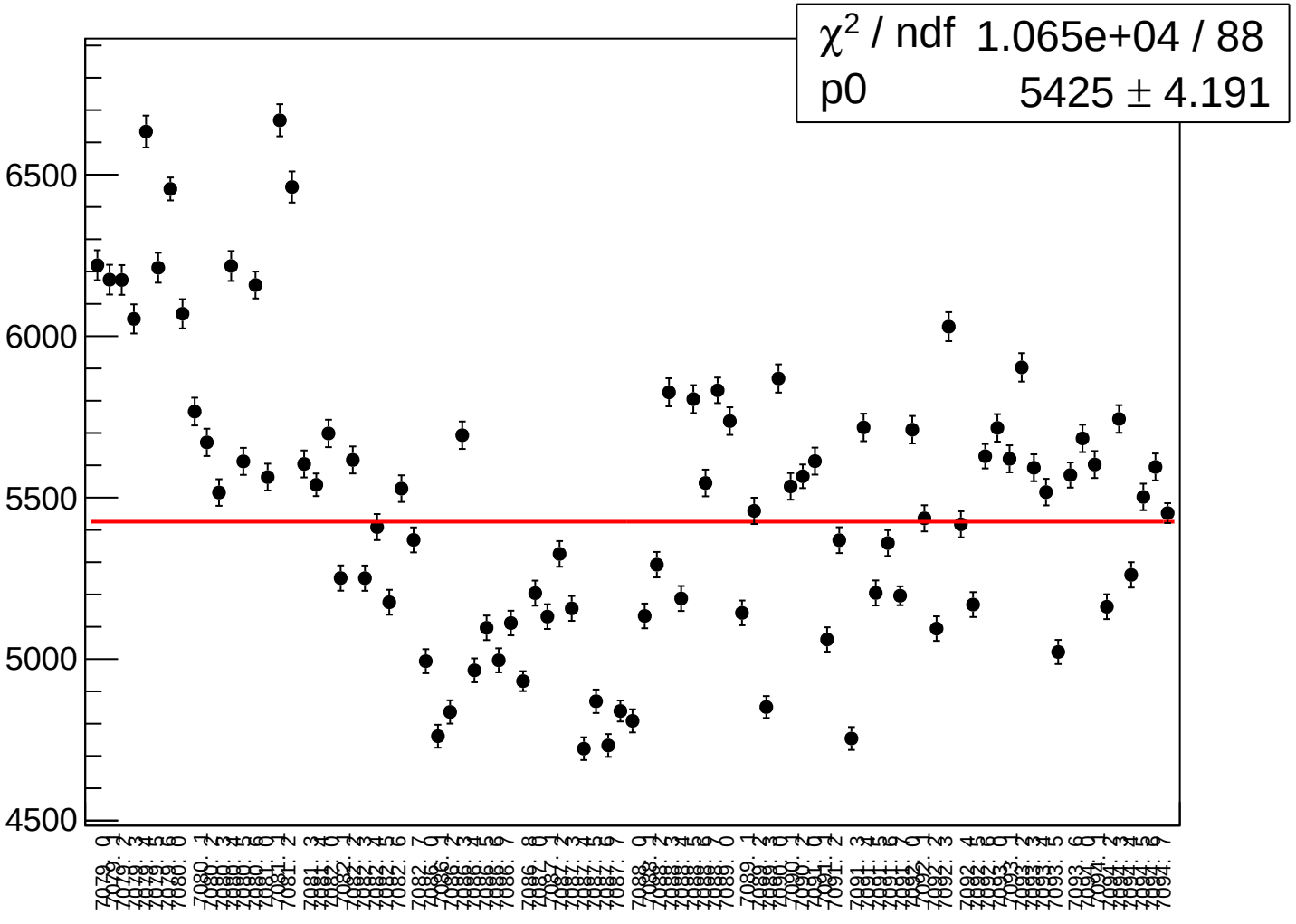

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.47 / 88
p0 1463 ± 1436
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 620.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.004033
Std Dev 0.939
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

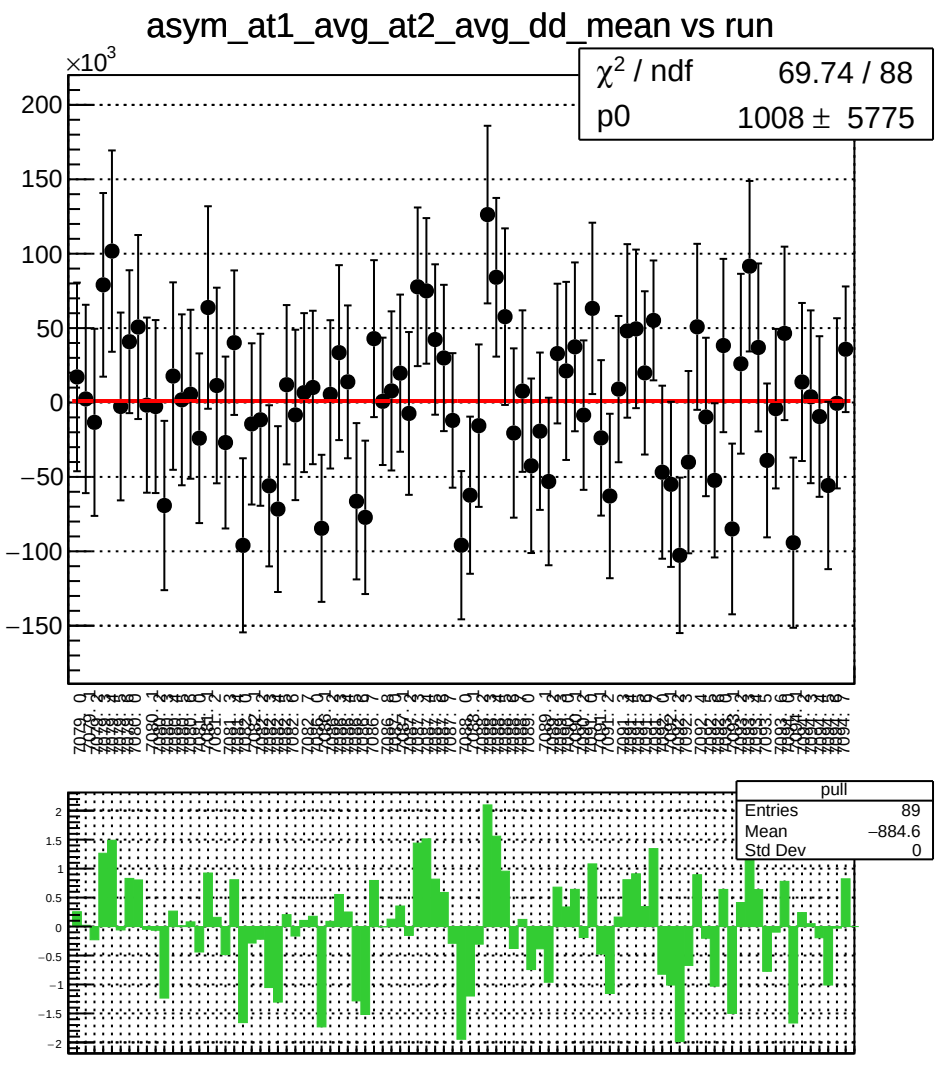

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 261.7 / 88
p0 1319 ± 1.015
1380
1360
1340
1320
1300
1280

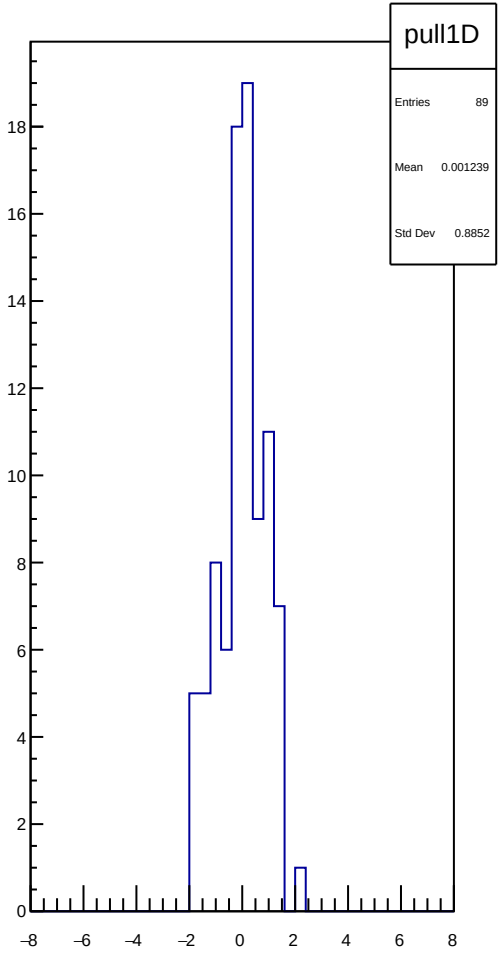

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.51 / 88
p0 826.6 ± 5928
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −435.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

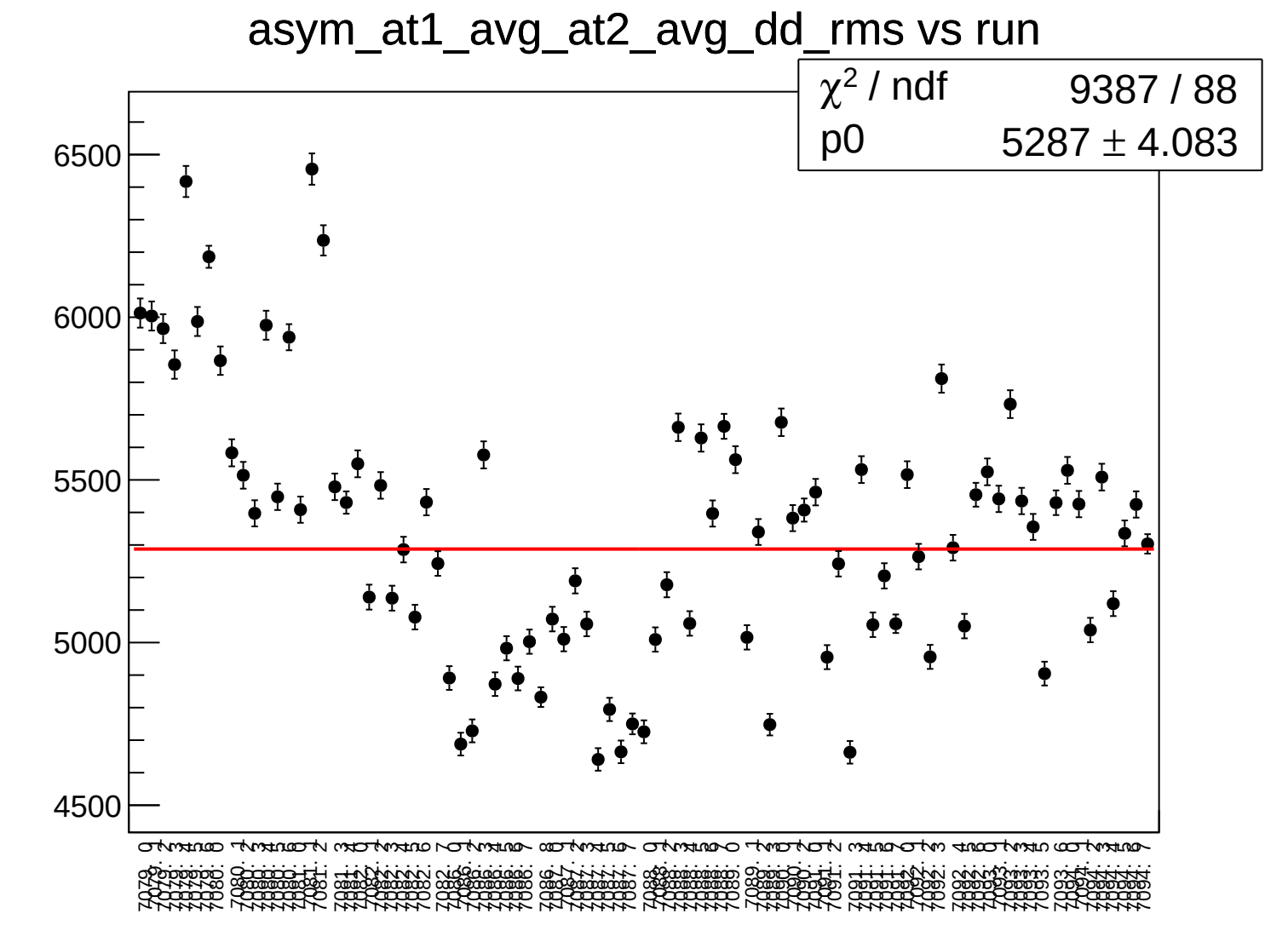

pull1D
Entries 89
Mean −0.003293
Std Dev 0.871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

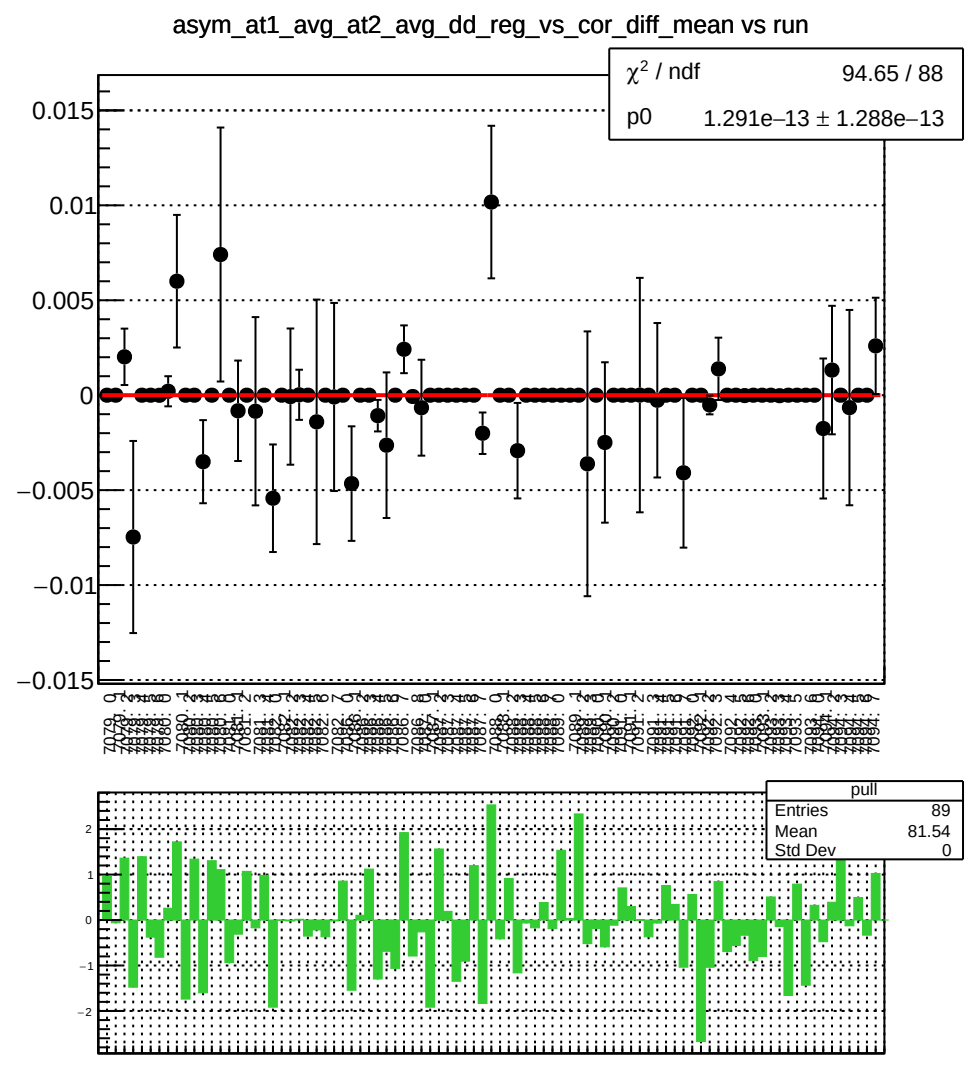
asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run

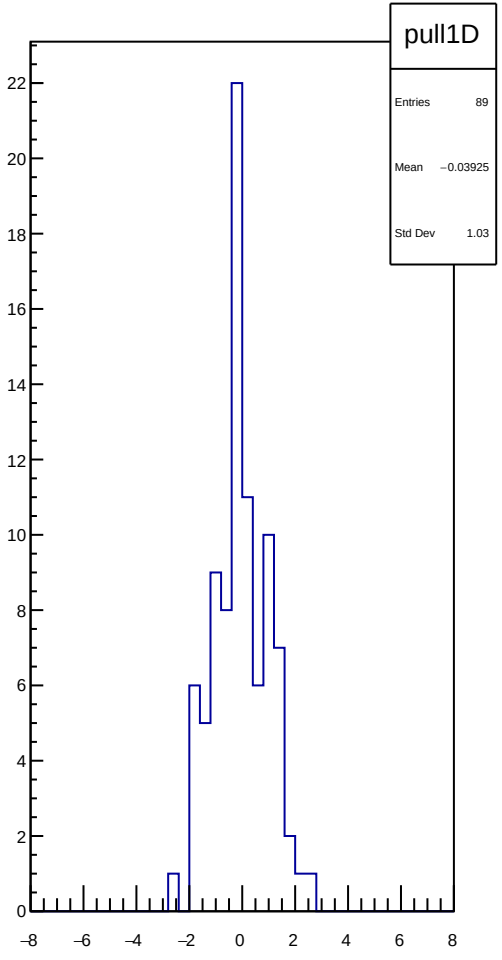


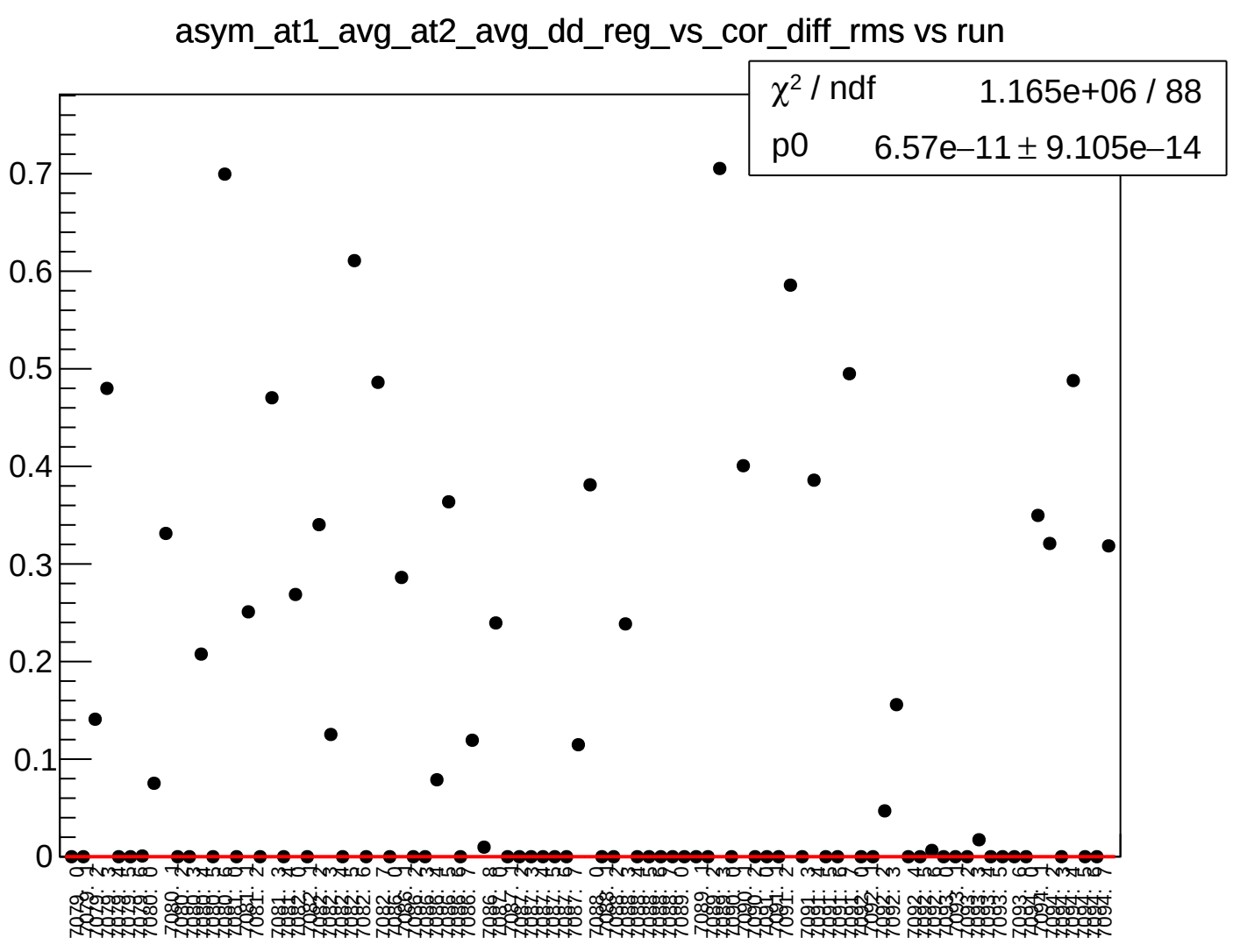

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 69.74 / 88
p0 1008 ± 5775
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −884.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

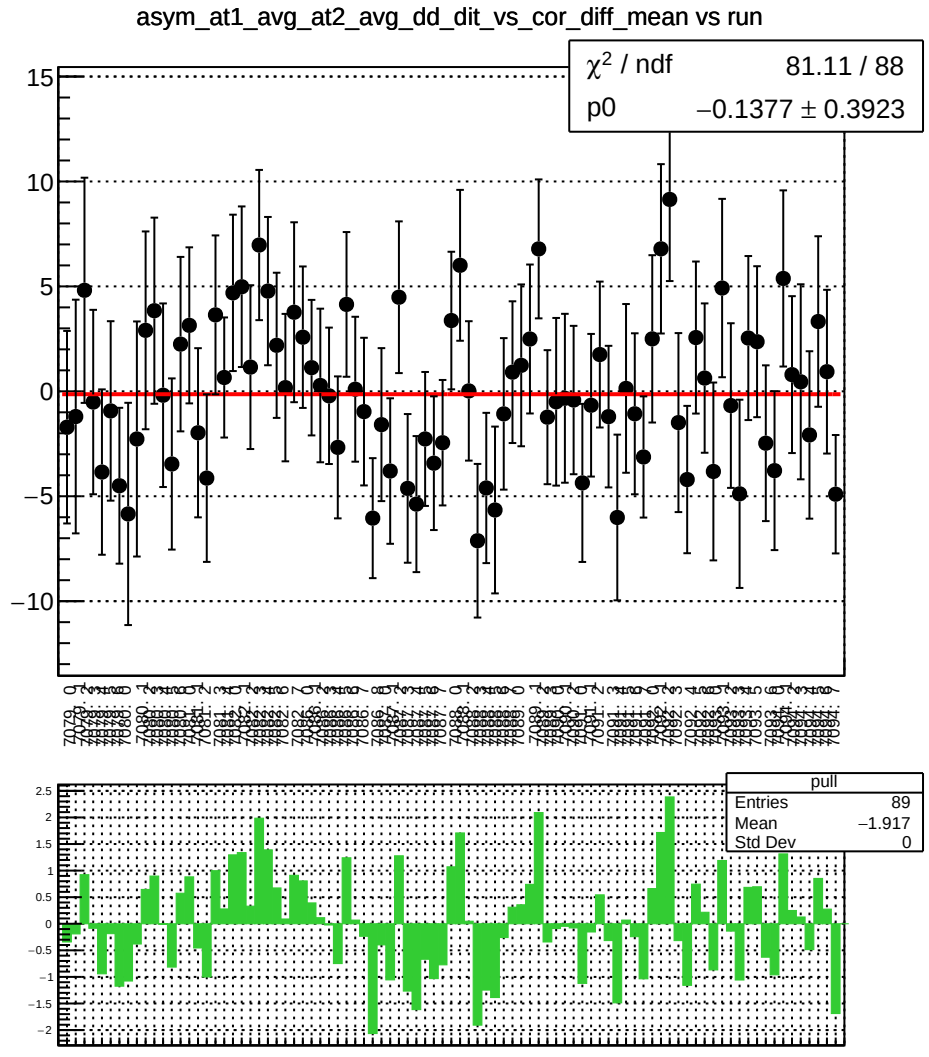

pull1D
Entries 89
Mean 0.001239
Std Dev 0.8852
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

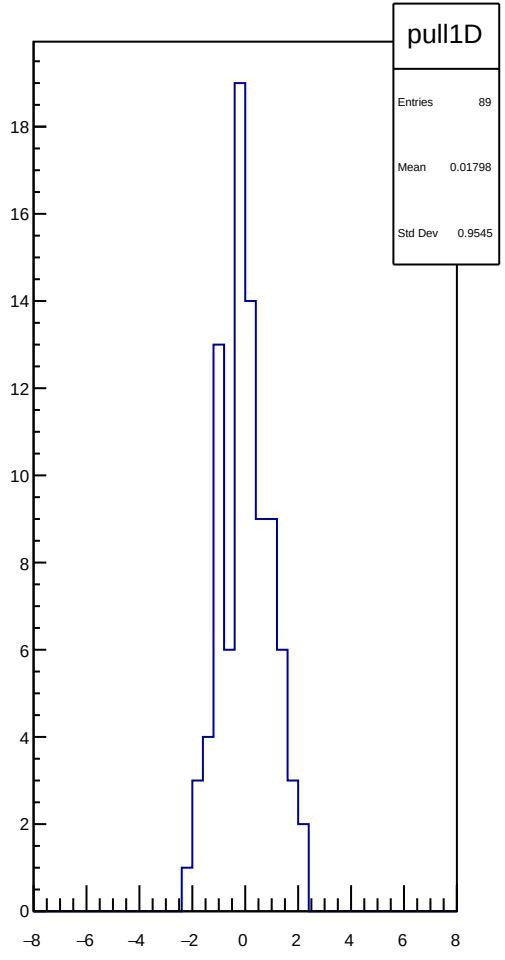

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 9387 / 88
p0 5287 ± 4.083
6500
6000
5500
5000
4500

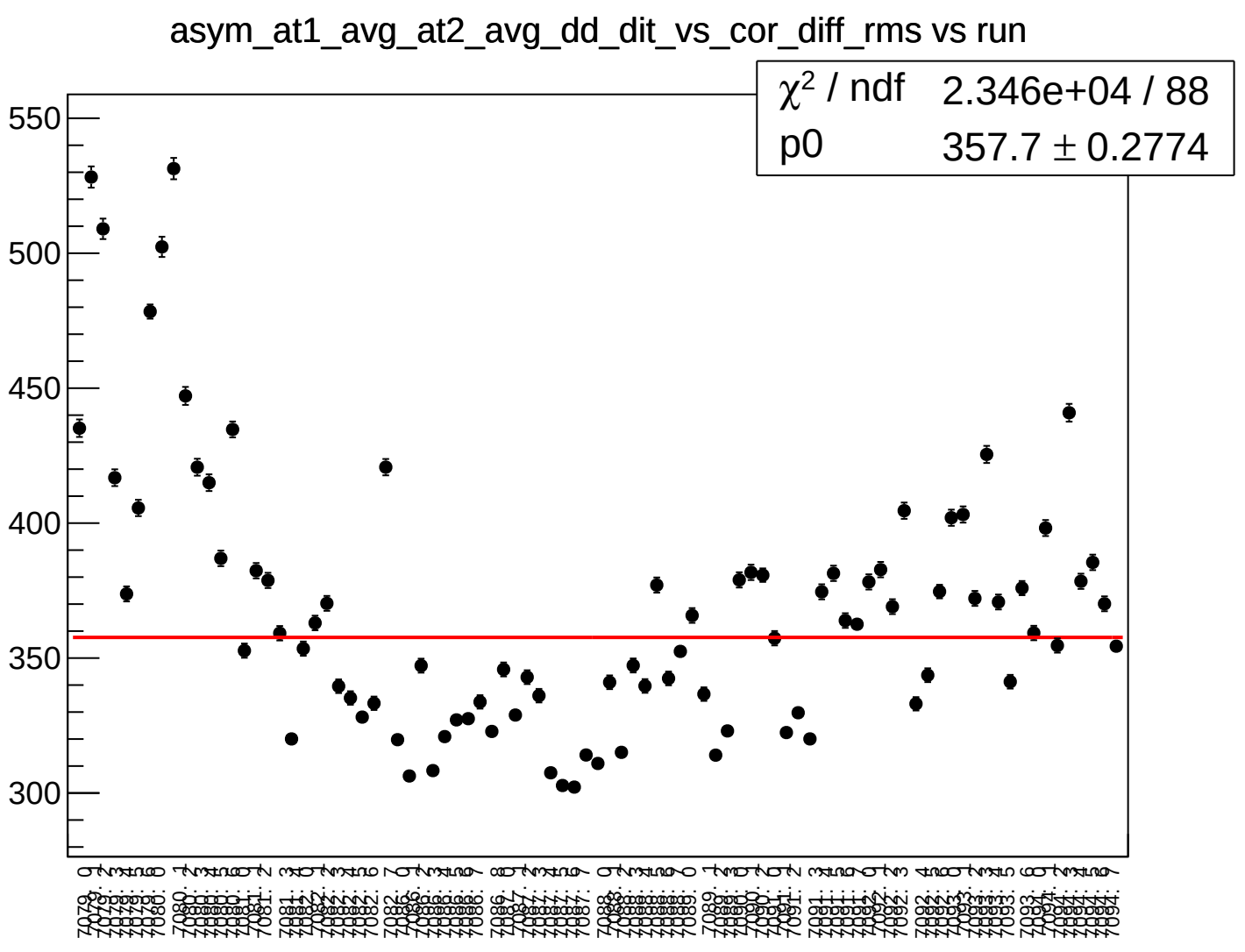

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.65 / 88
p0 1.291e−13 ± 1.288e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 81.54
Std Dev 0
2
1
0
−1
−2

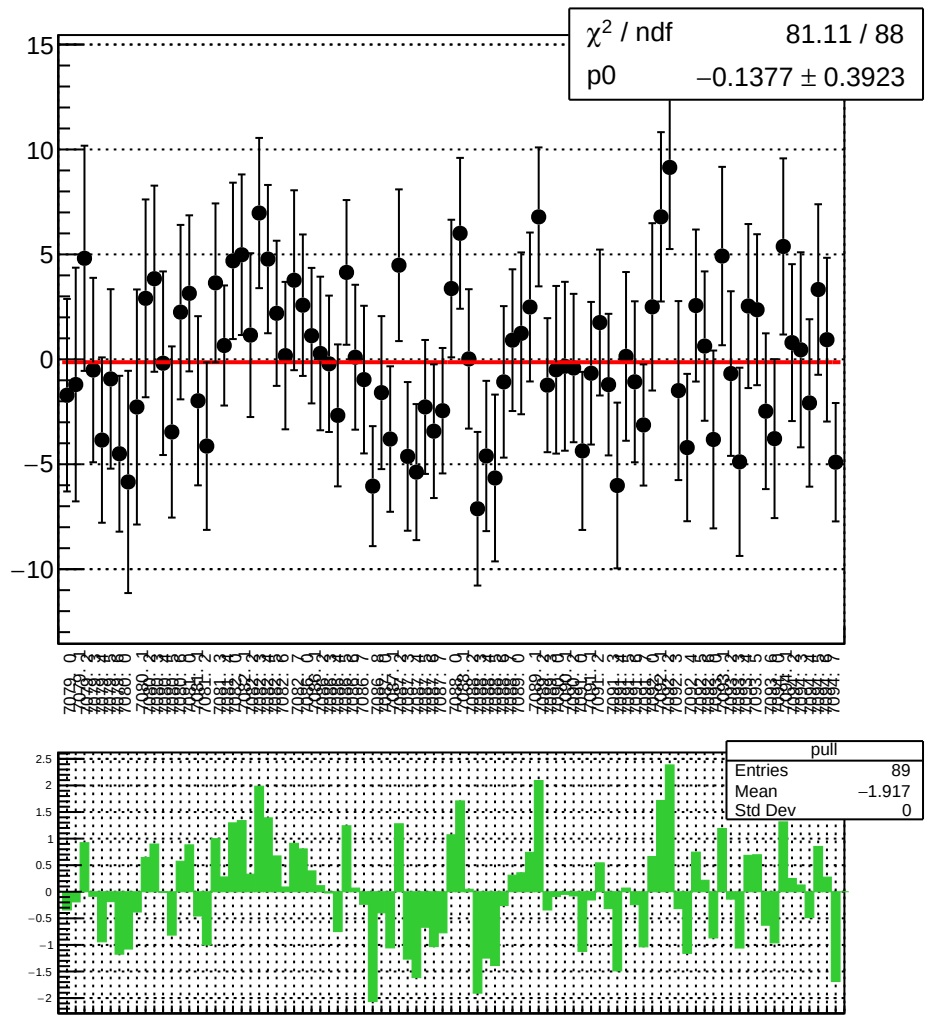

pull1D
Entries 89
Mean −0.03925
Std Dev 1.03
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

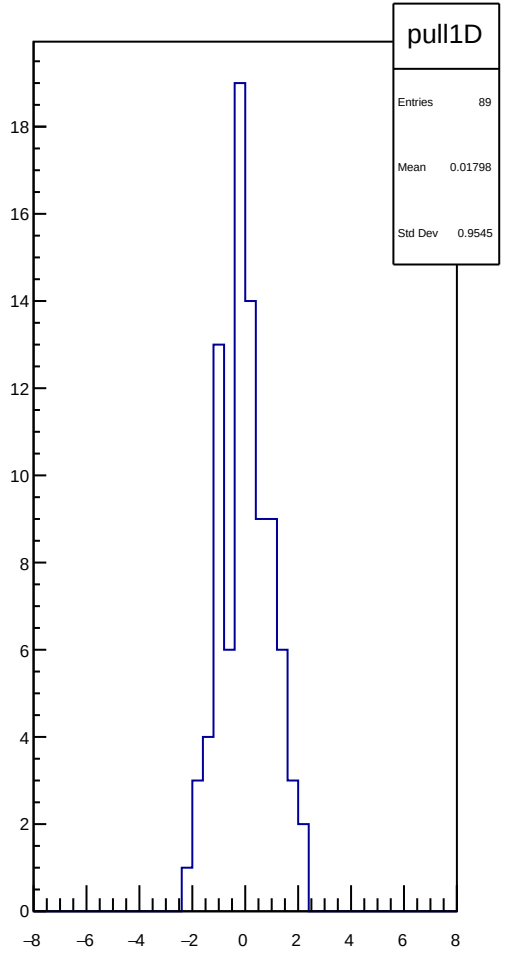

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.165e+06 / 88
p0 6.57e−11 ± 9.105e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

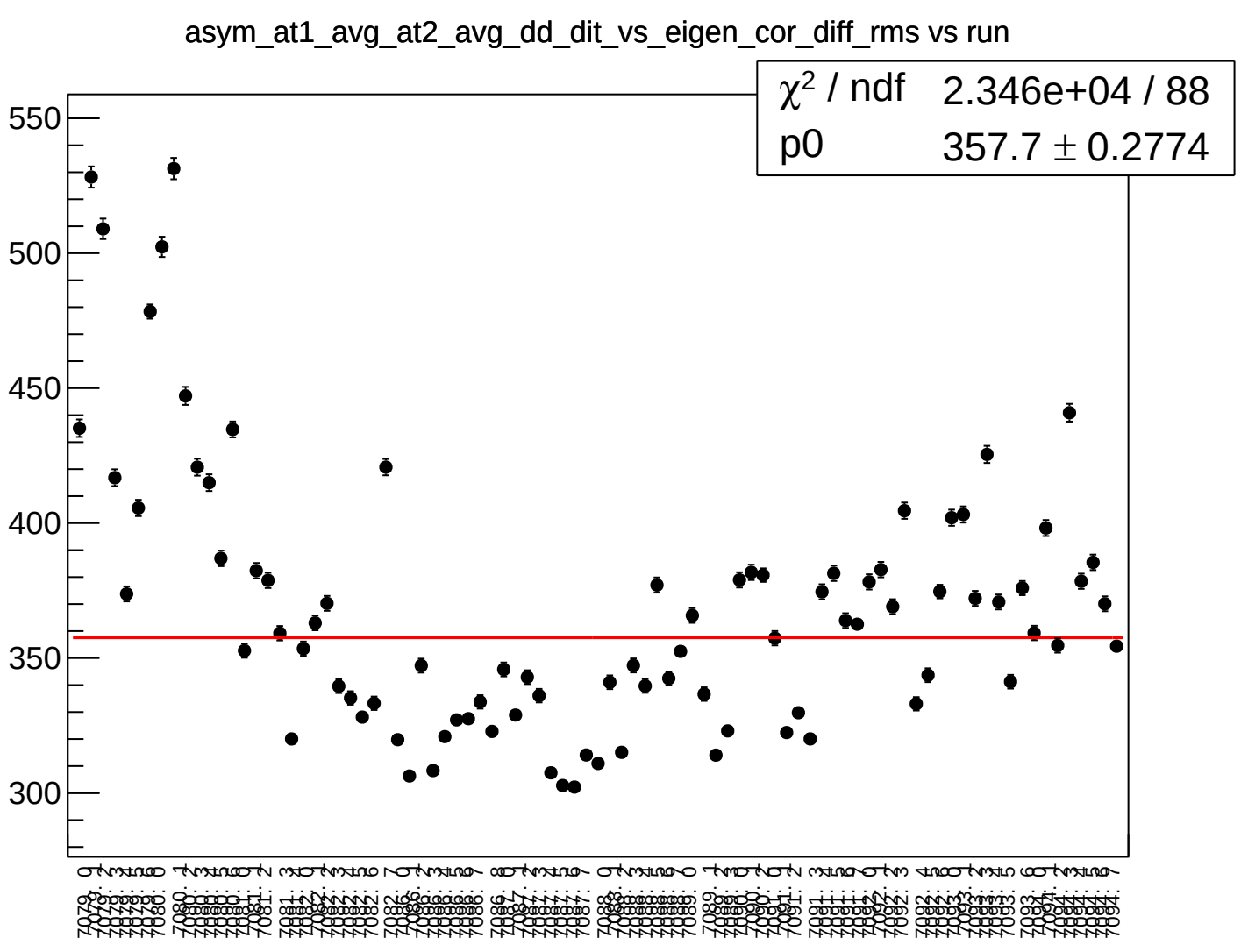

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.917
Std Dev 0

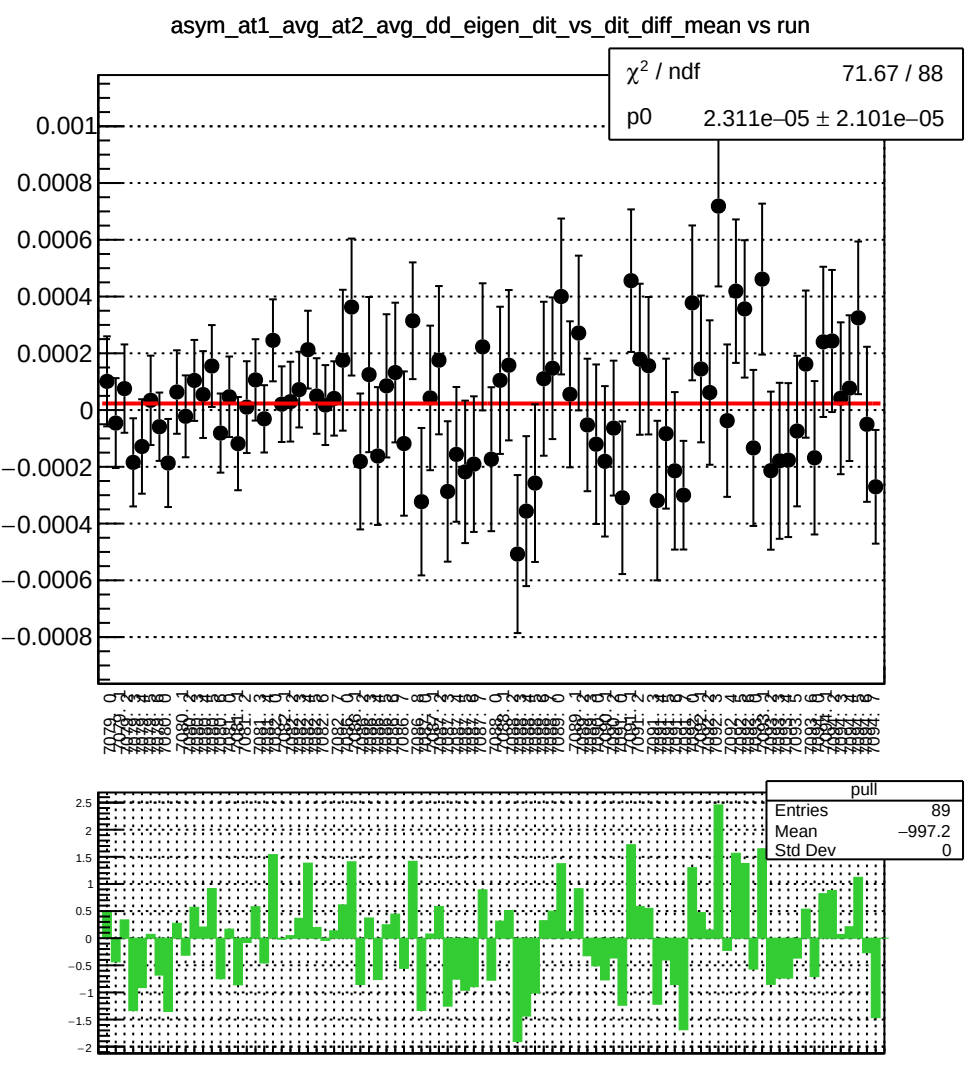

pull1D
Entries 89
Mean 0.01798
Std Dev 0.9545

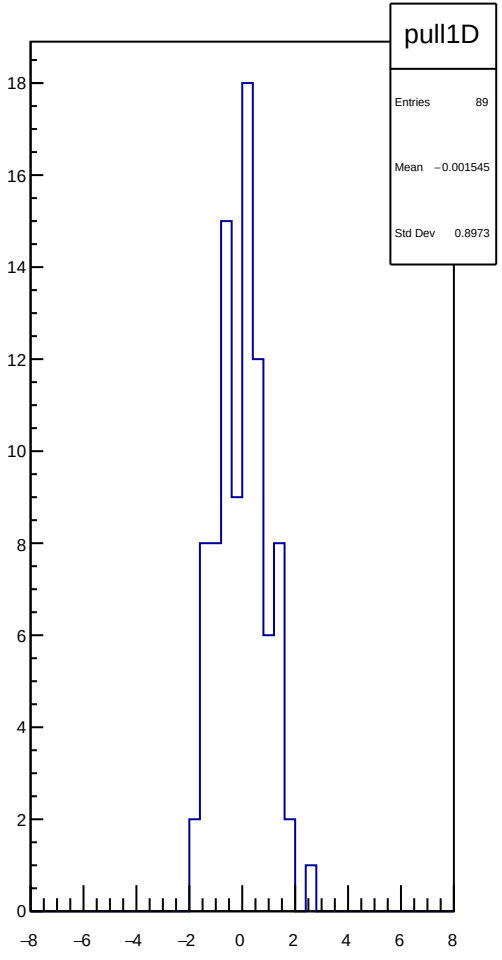

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

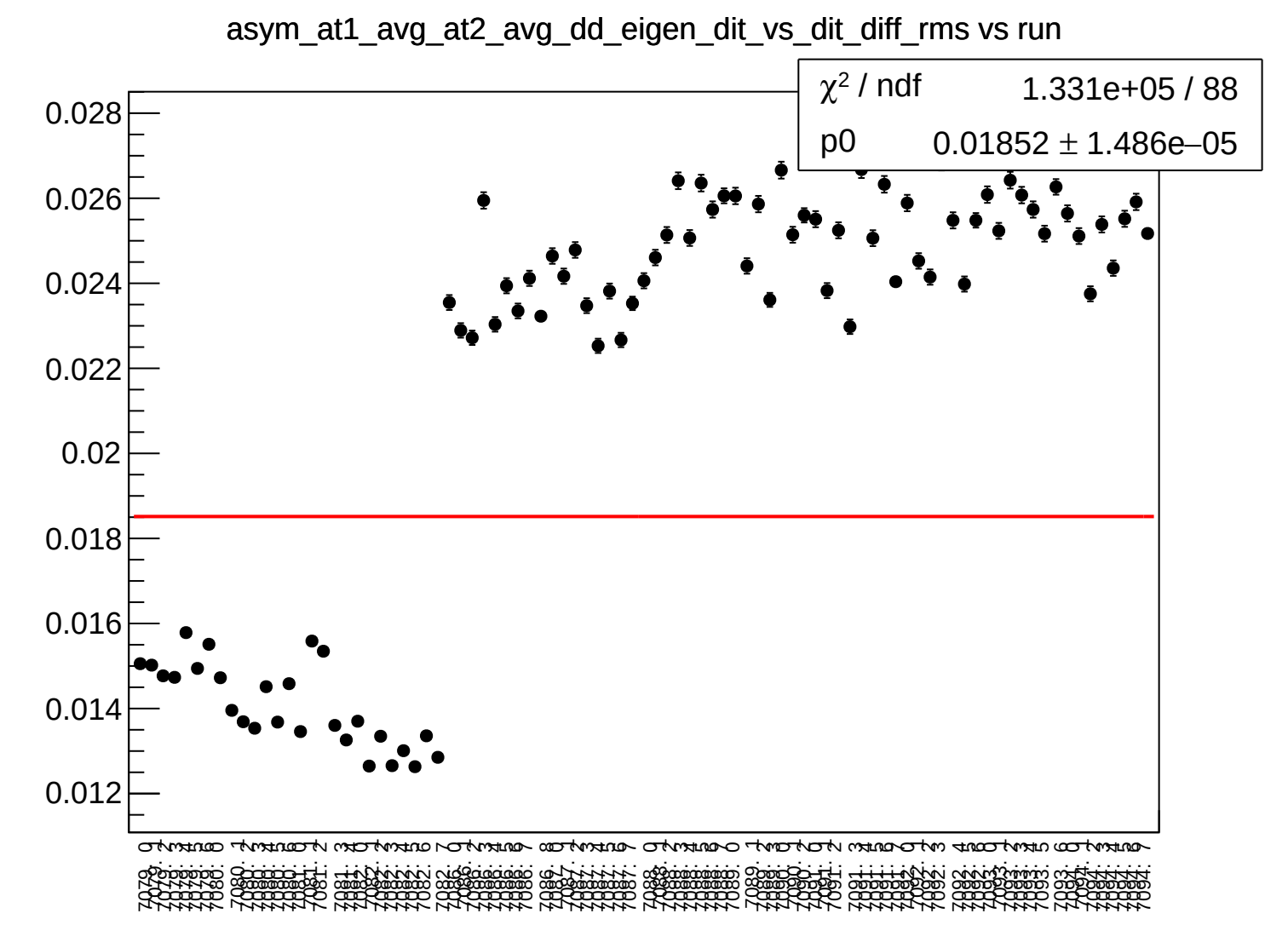

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.917
Std Dev 0

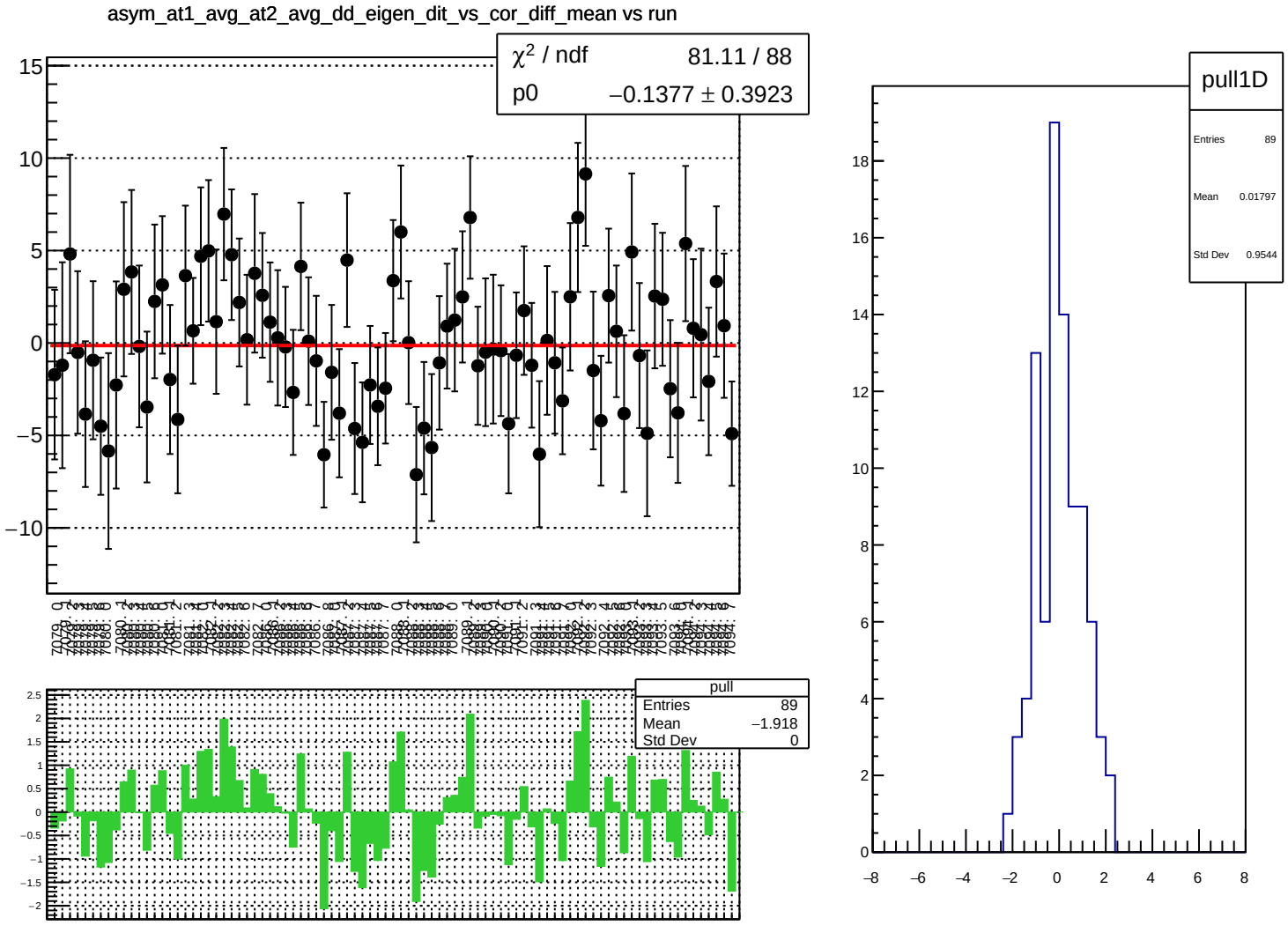

pull1D
Entries 89
Mean 0.01798
Std Dev 0.9545

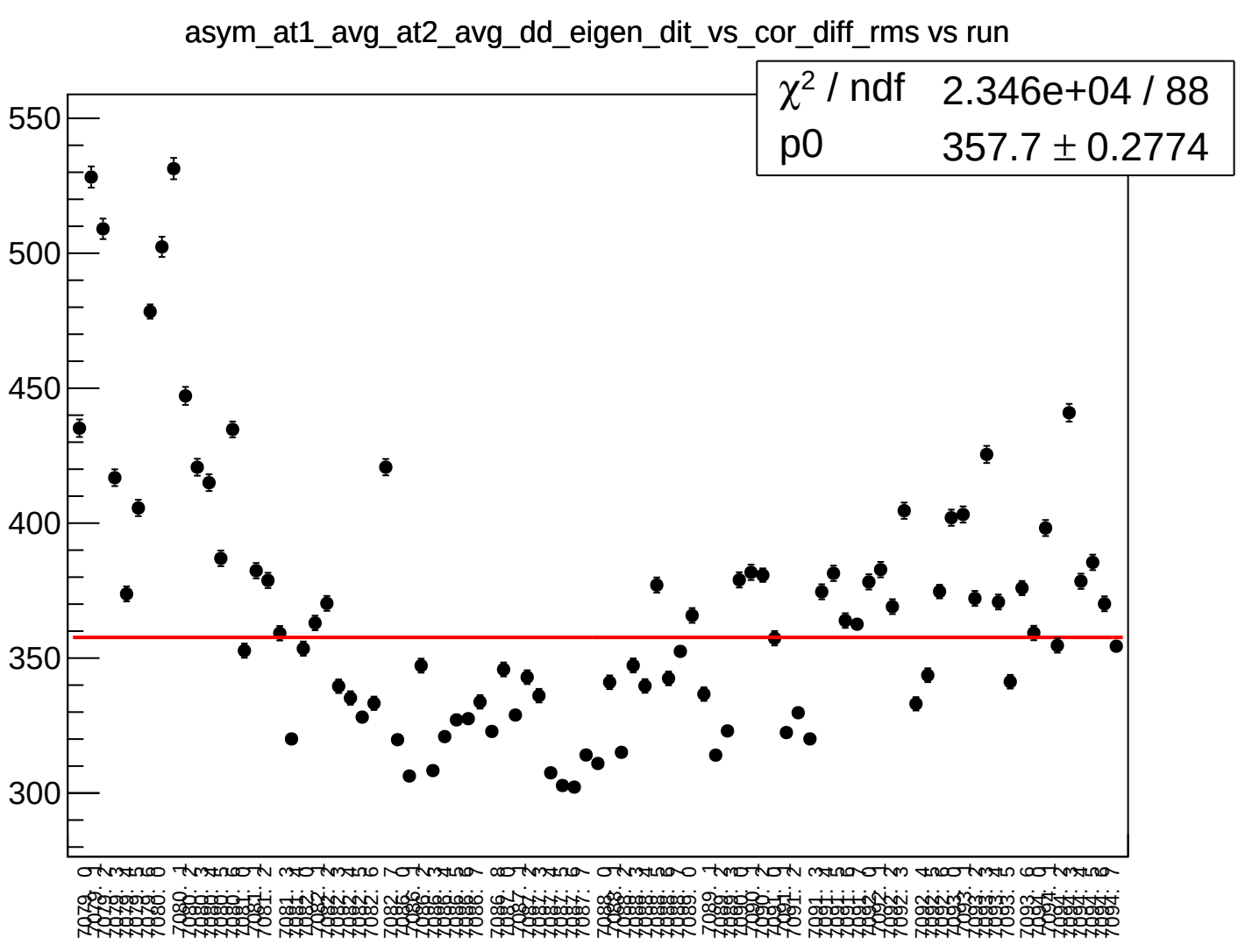

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

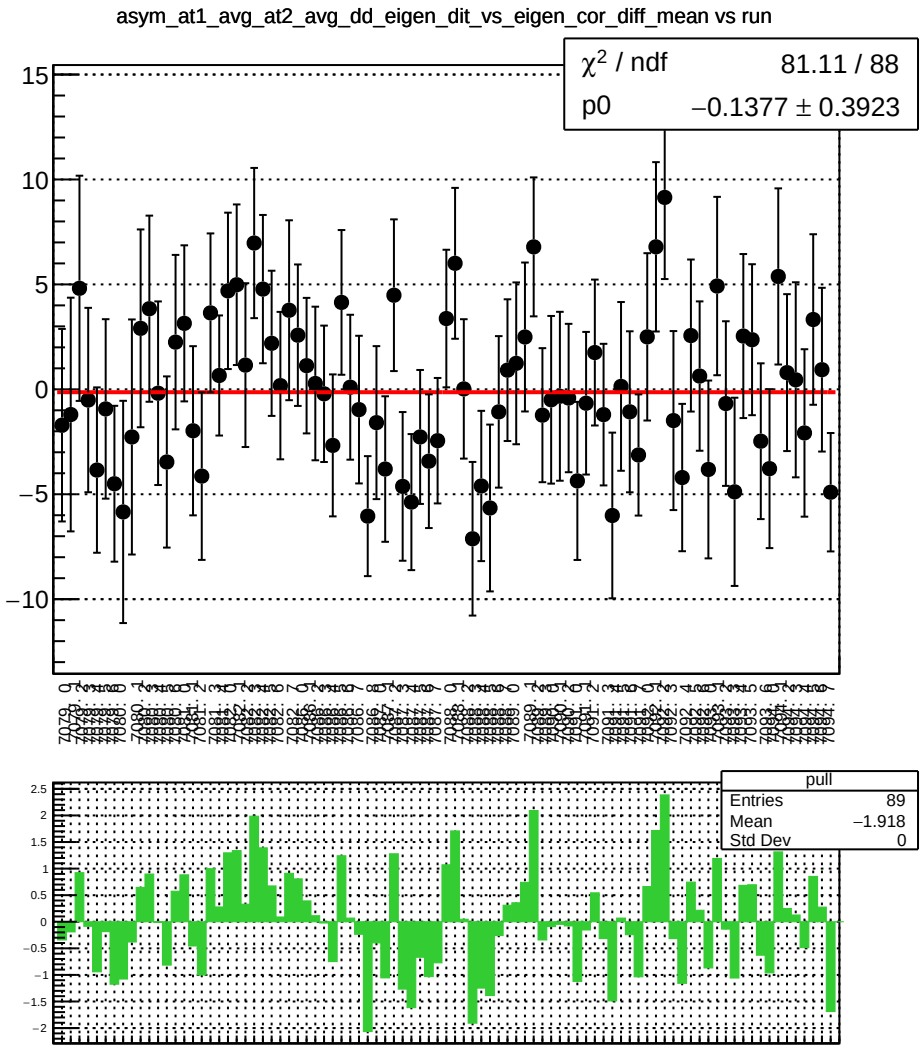

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.67 / 88
p0 2.311e−05 ± 2.101e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 89
Mean −997.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

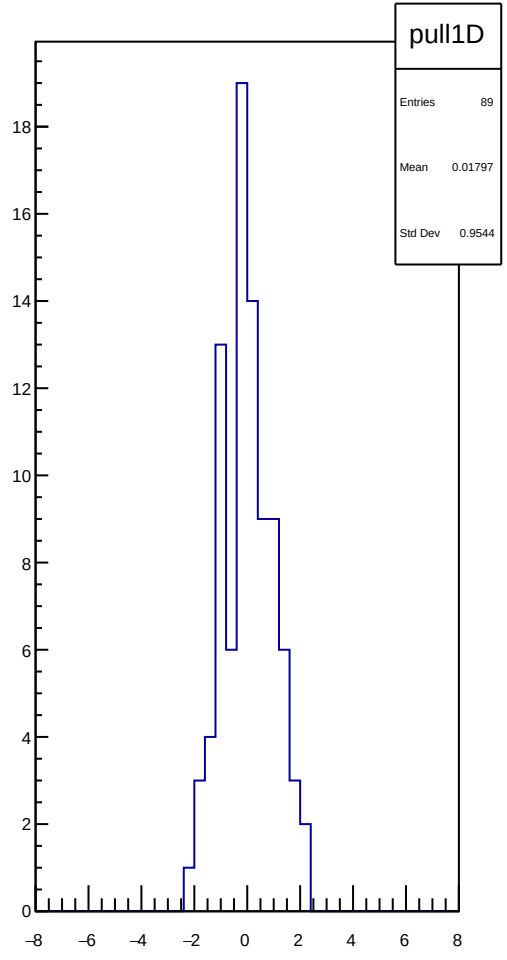

pull1D
Entries 89
Mean −0.001545
Std Dev 0.8973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

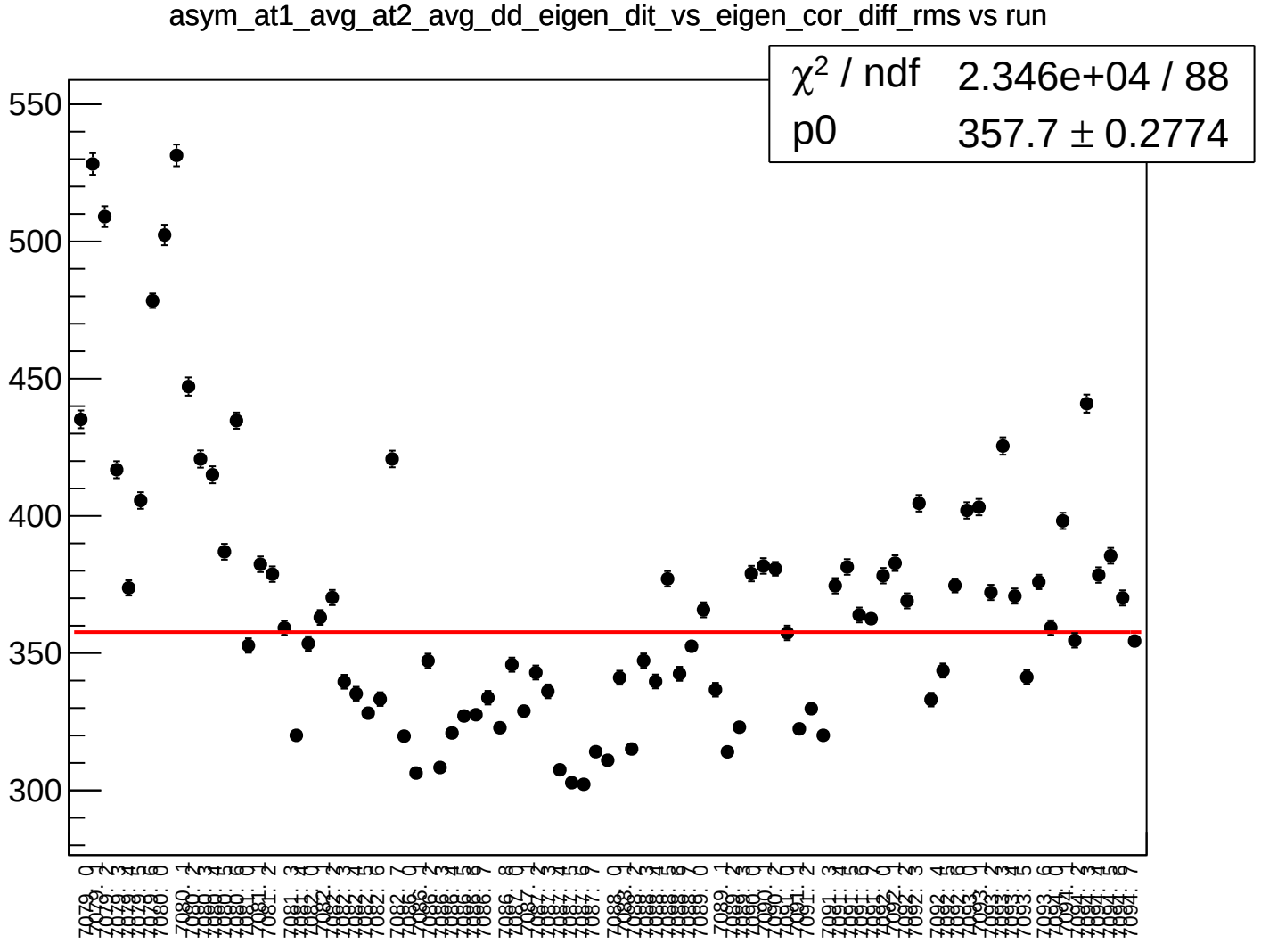

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.331e+05 / 88
p0 0.01852 ± 1.486e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

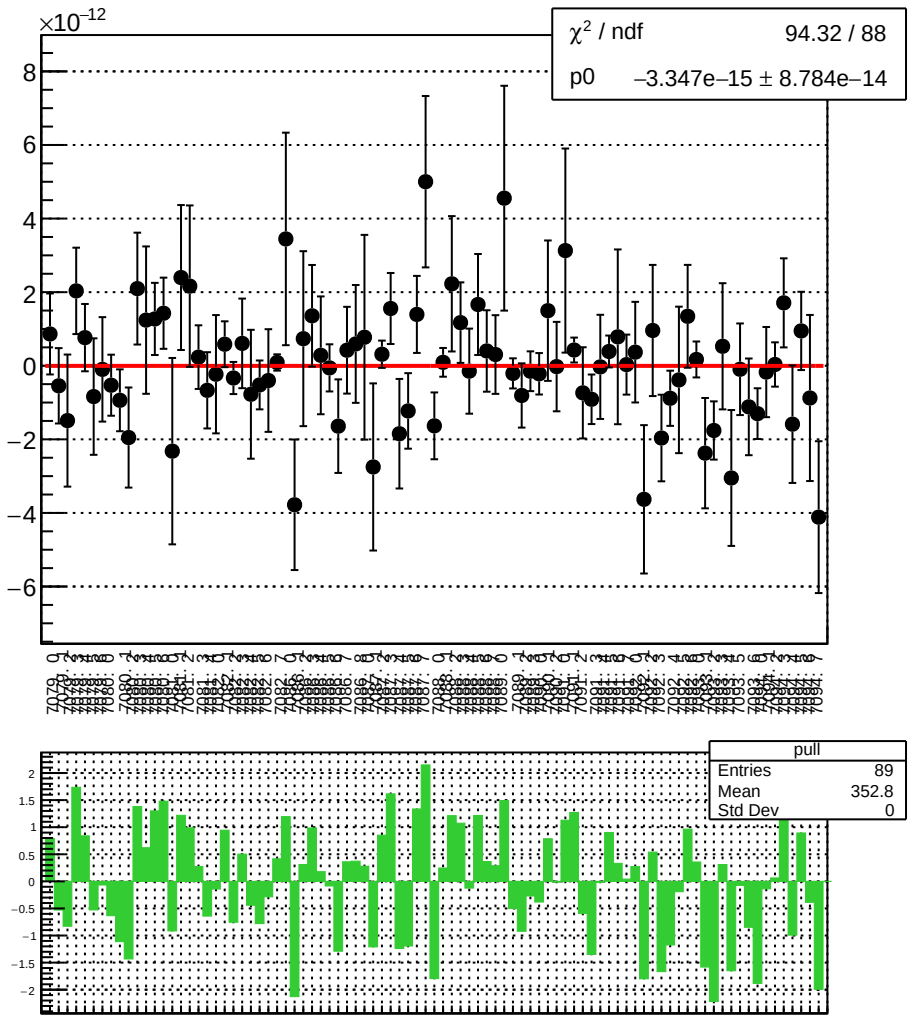

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.918
Std Dev 0
pull1D
Entries 89
Mean 0.01797
Std Dev 0.9544

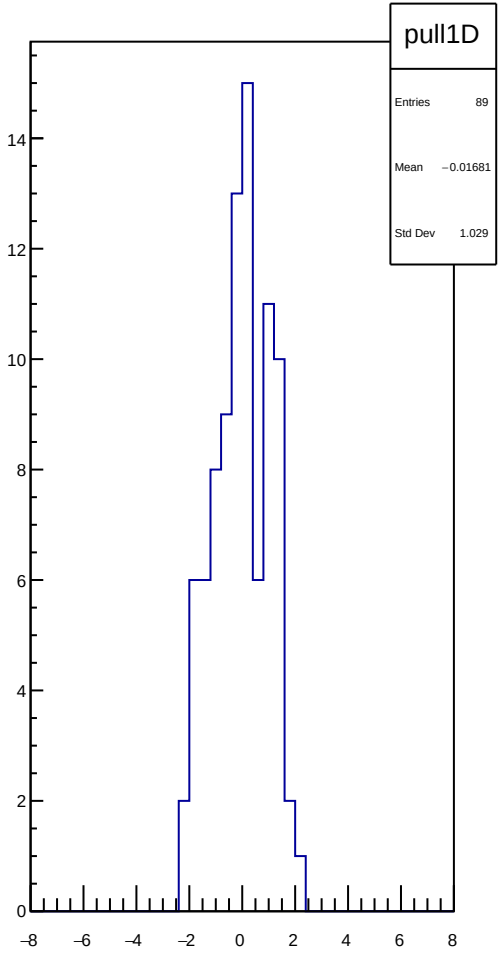

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

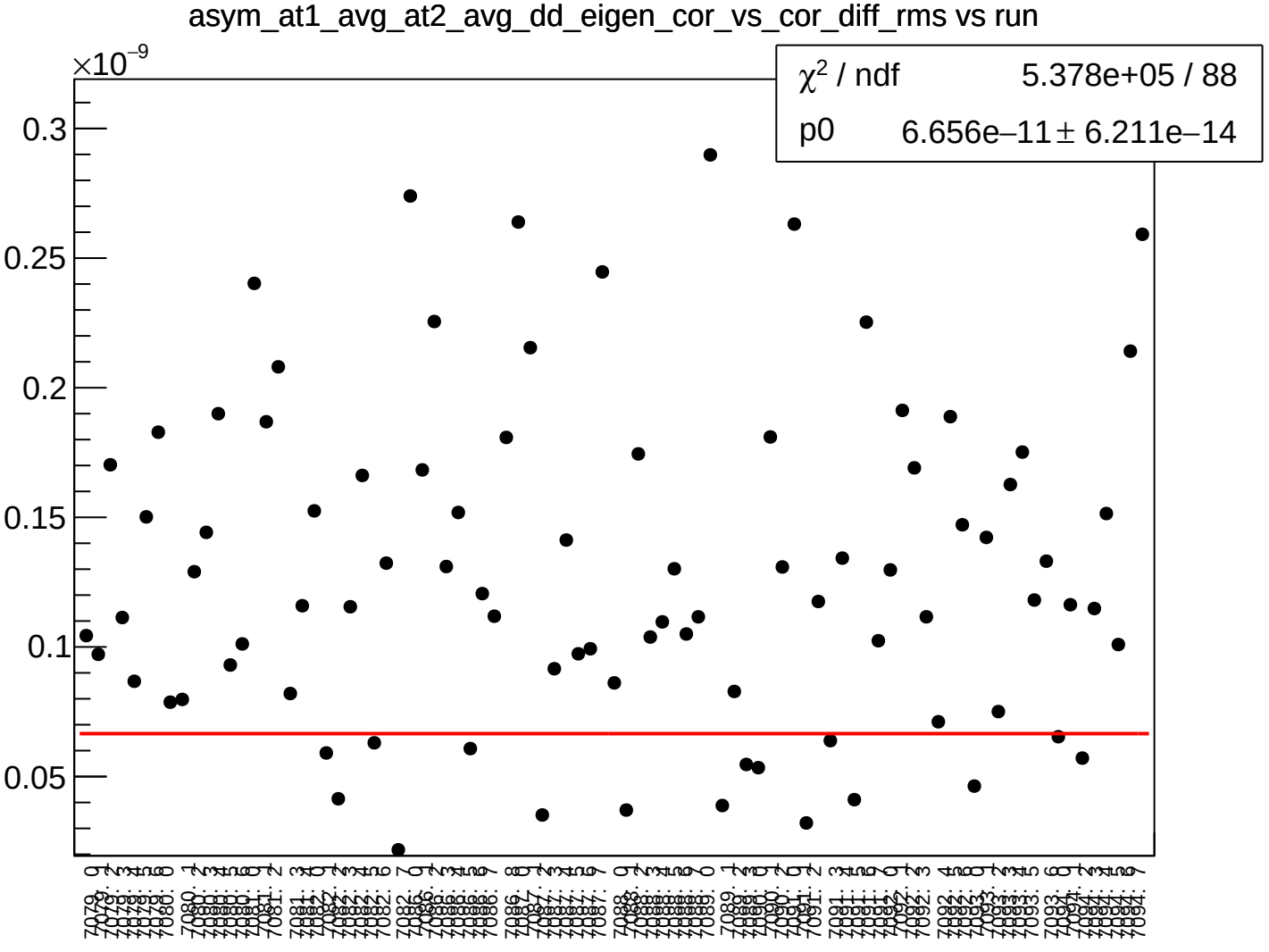

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.918
Std Dev 0

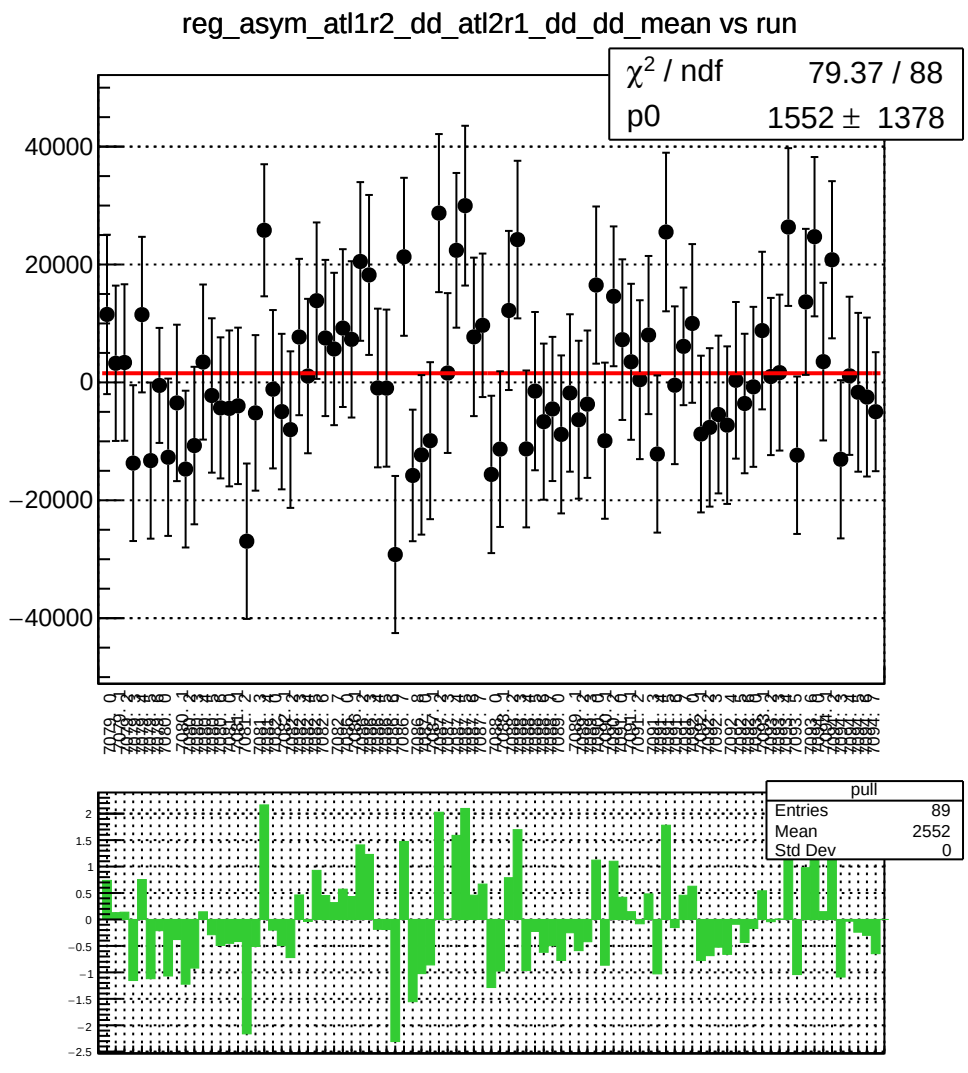

pull1D
Entries 89
Mean 0.01797
Std Dev 0.9544

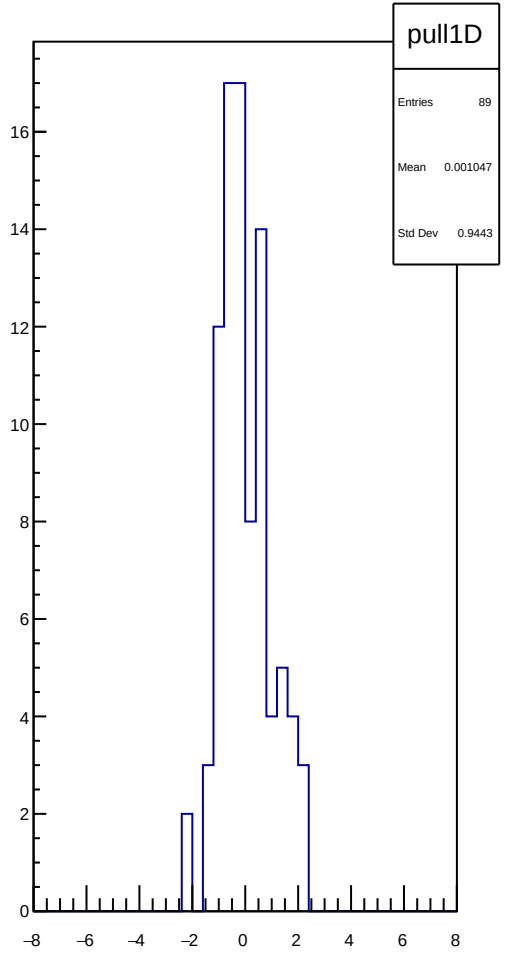

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

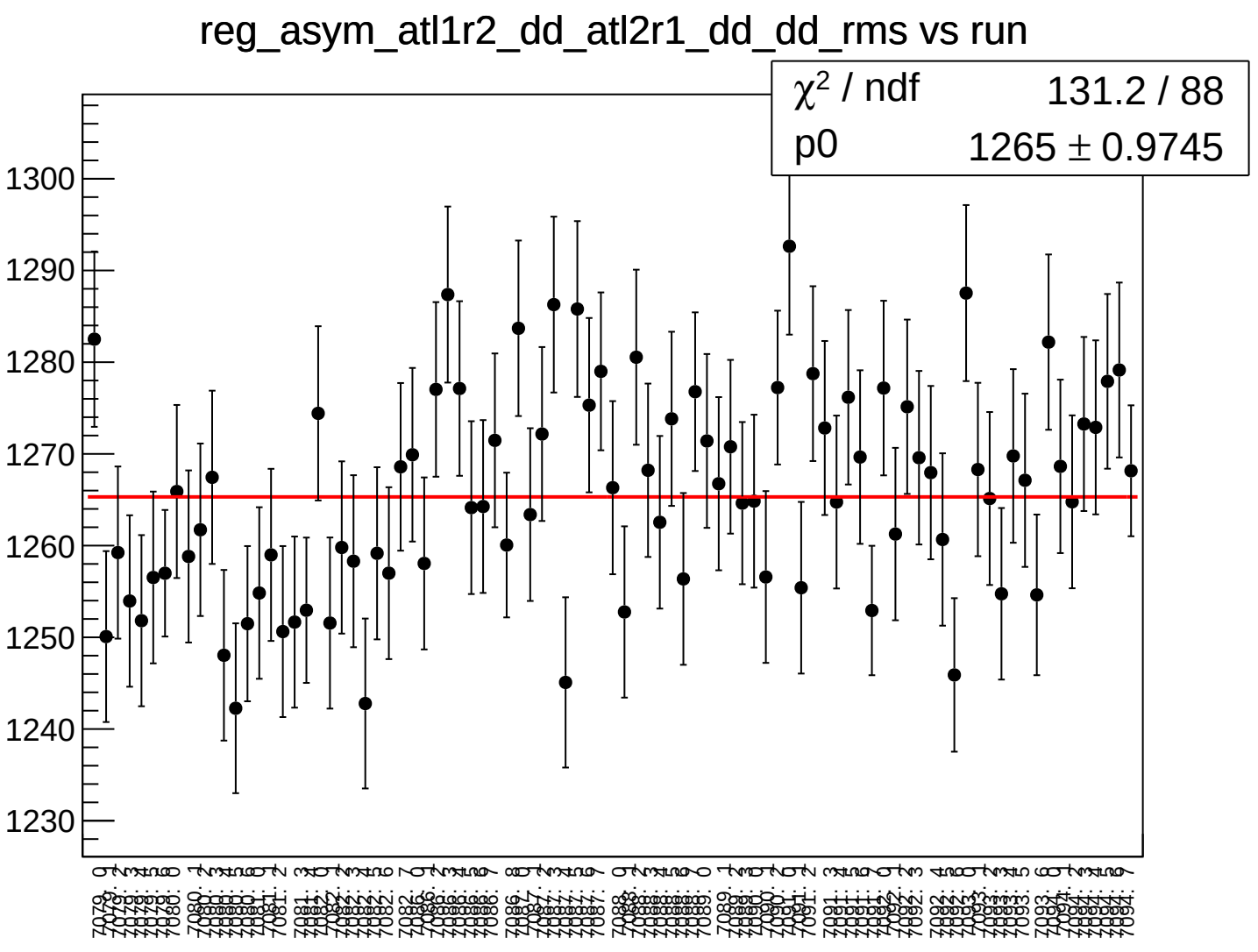

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.32 / 88
p0 −3.347e−15 ± 8.784e−14
pull
Entries 89
Mean 352.8
Std Dev 0

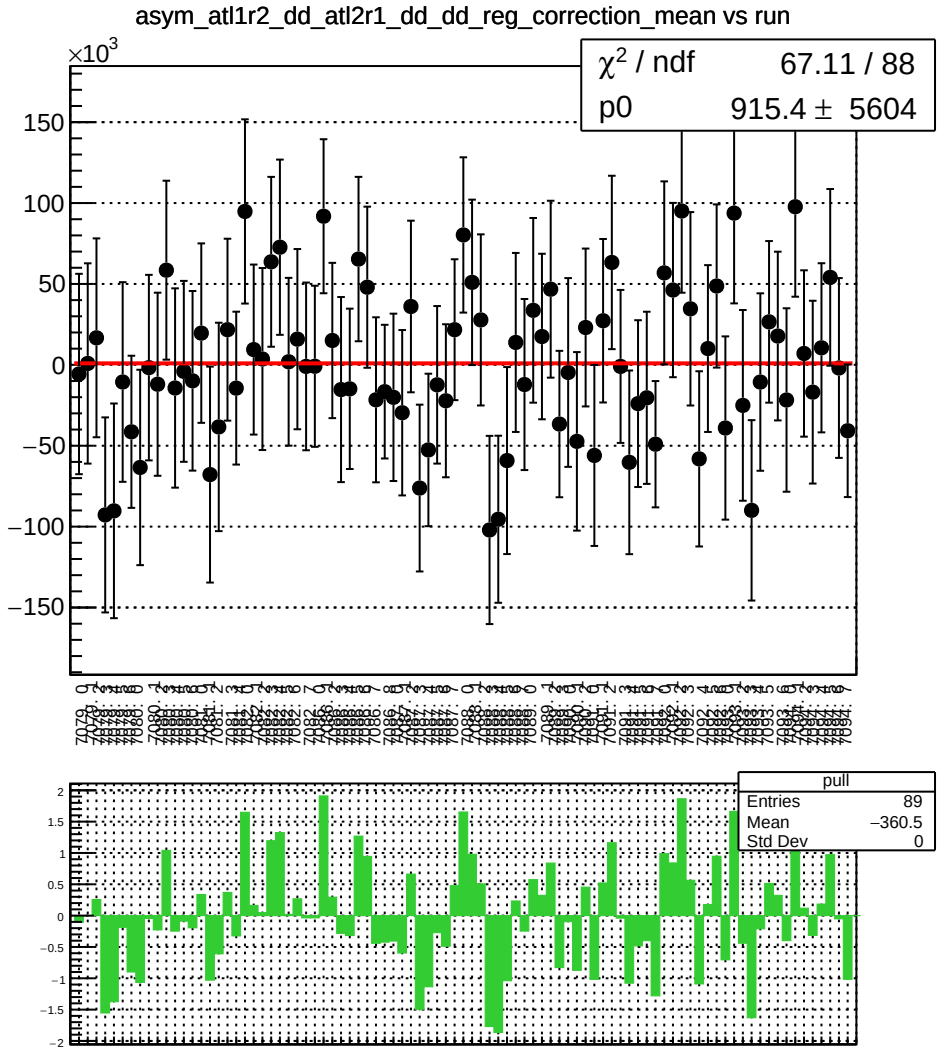

pull1D
Entries 89
Mean −0.01681
Std Dev 1.029

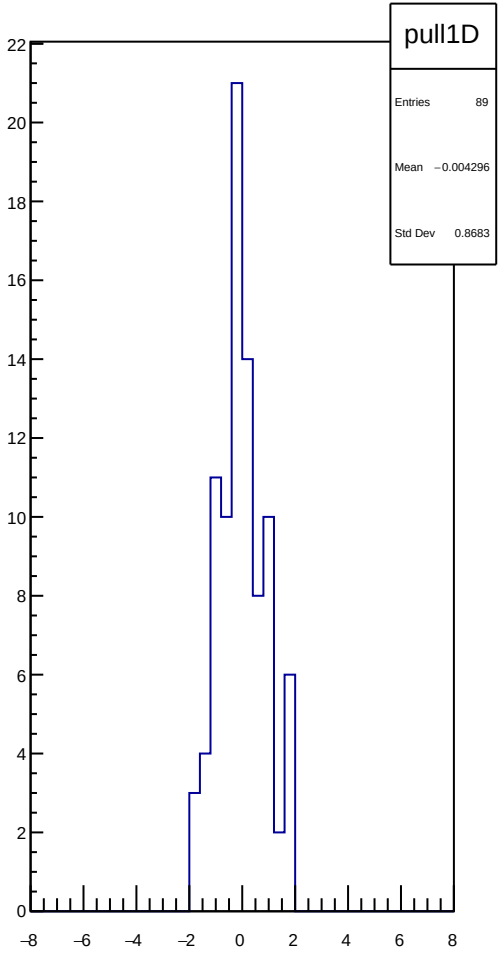

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.378e+05 / 88
p0 6.656e−11 ± 6.211e−14
0.3
0.25
0.2
0.15
0.1
0.05

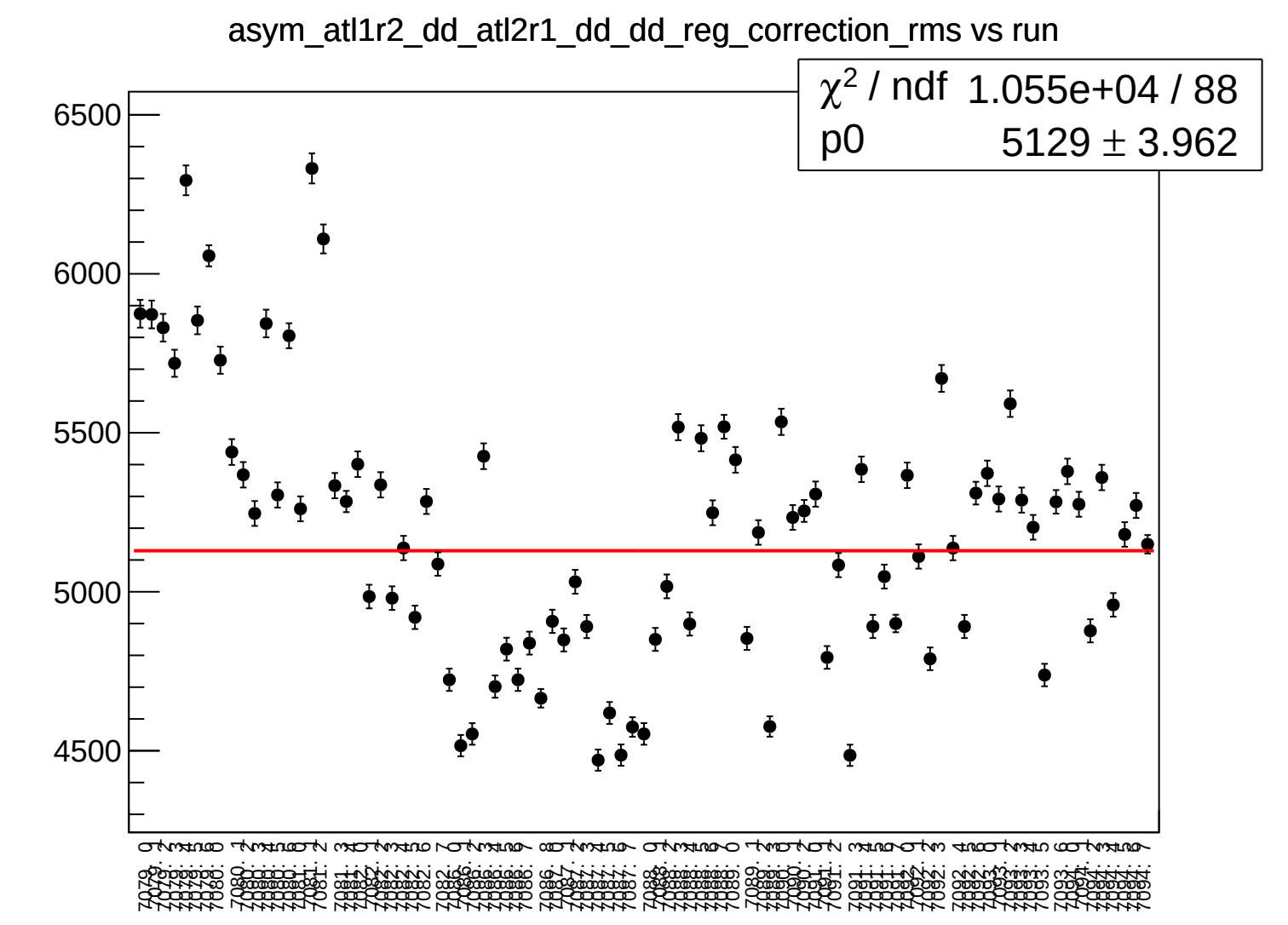

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 79.37 / 88
p0 1552 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2552
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

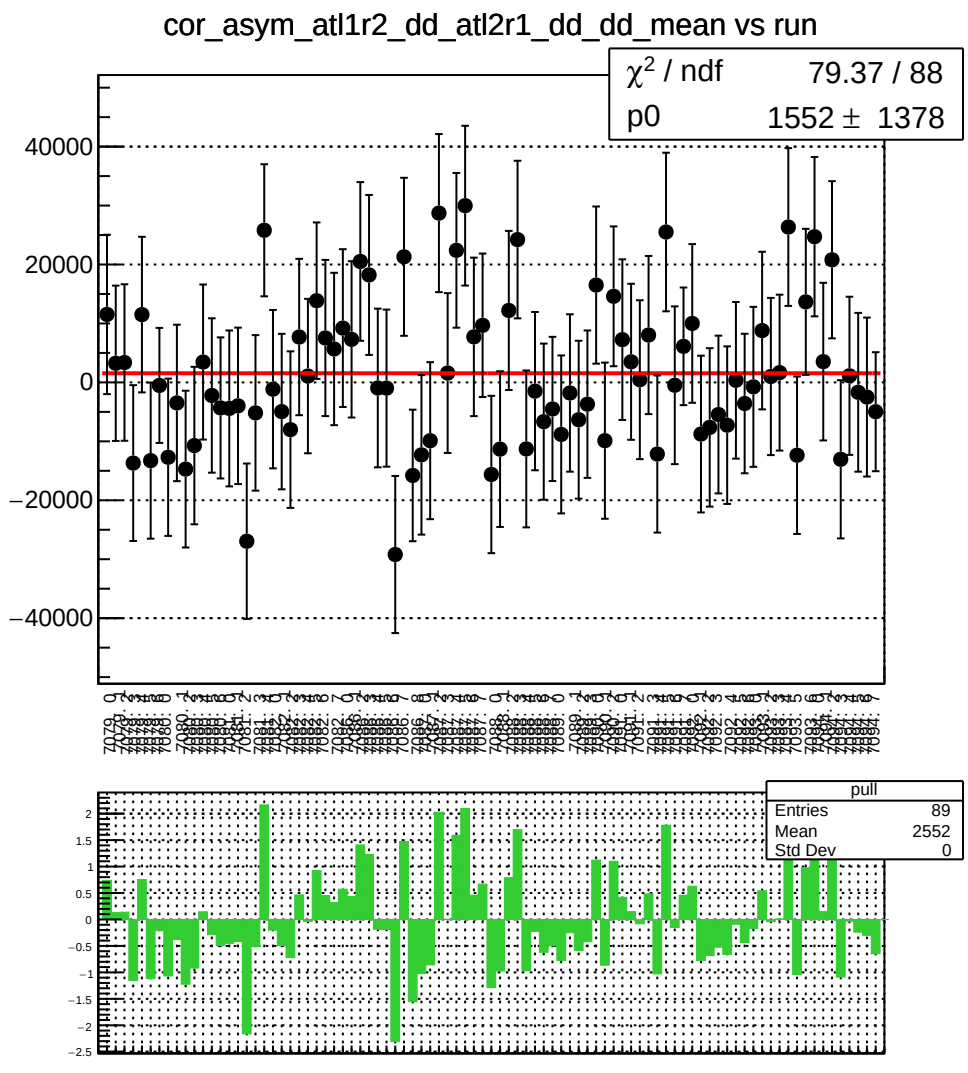

pull1D
Entries 89
Mean 0.001047
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

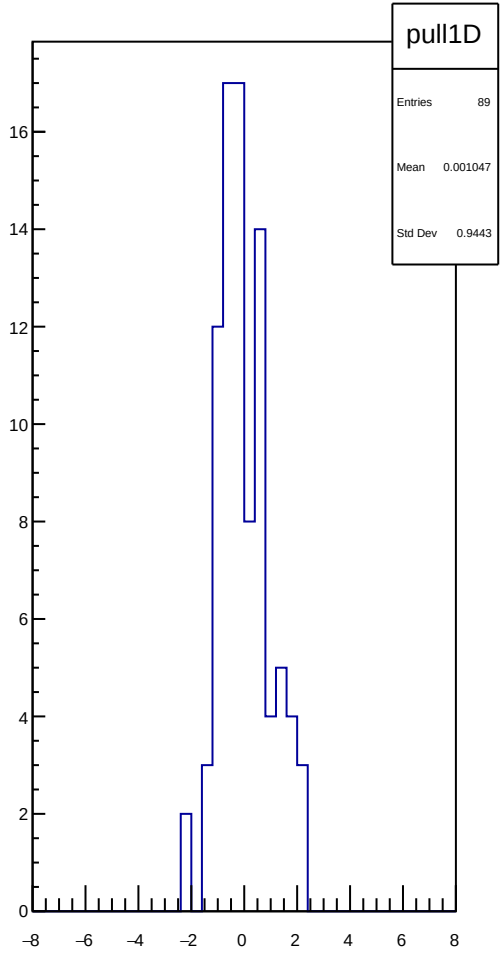

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 131.2 / 88
p0 1265 ± 0.9745
1300
1290
1280
1270
1260
1250
1240
1230

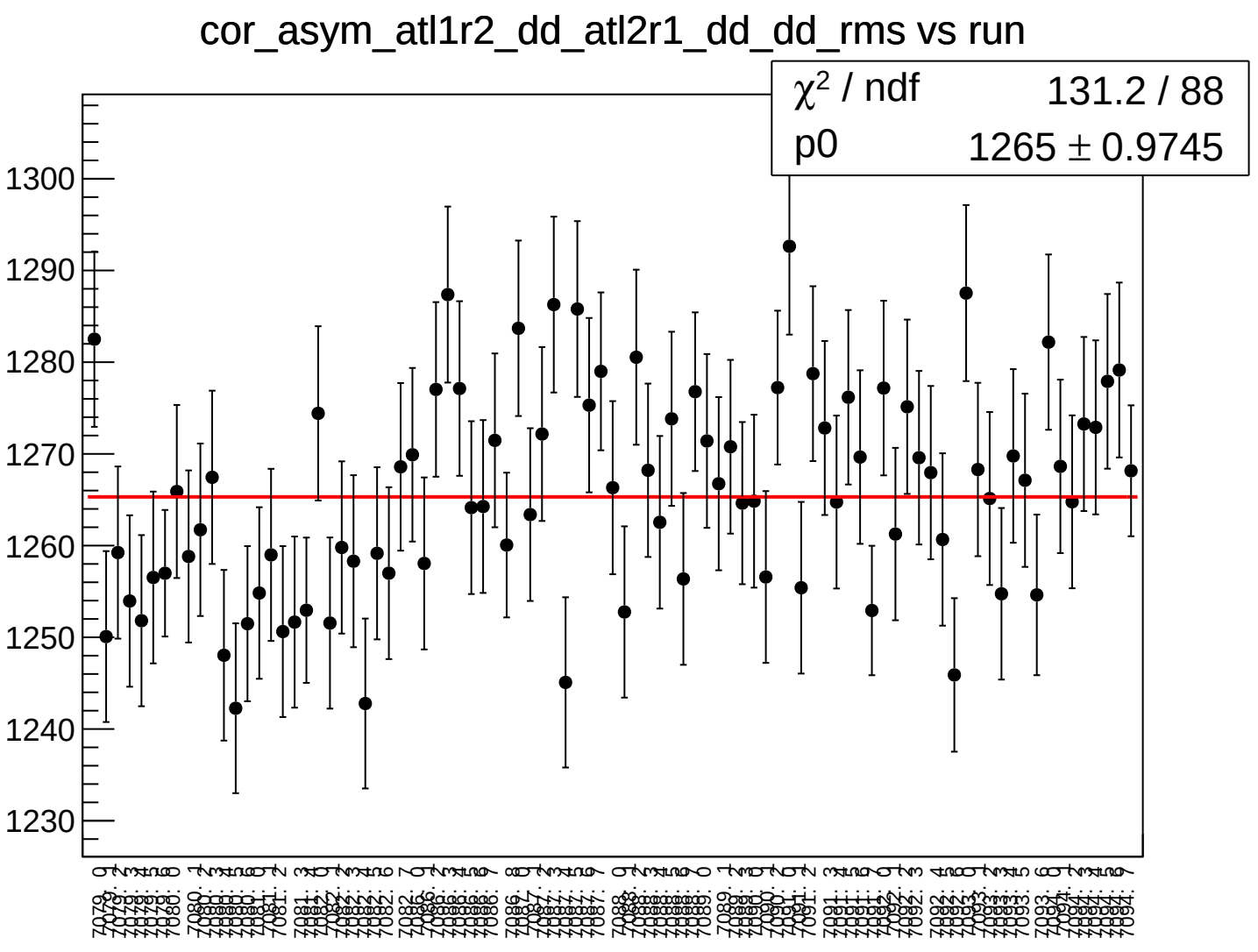

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 67.11 / 88
p0 915.4 ± 5604
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −360.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

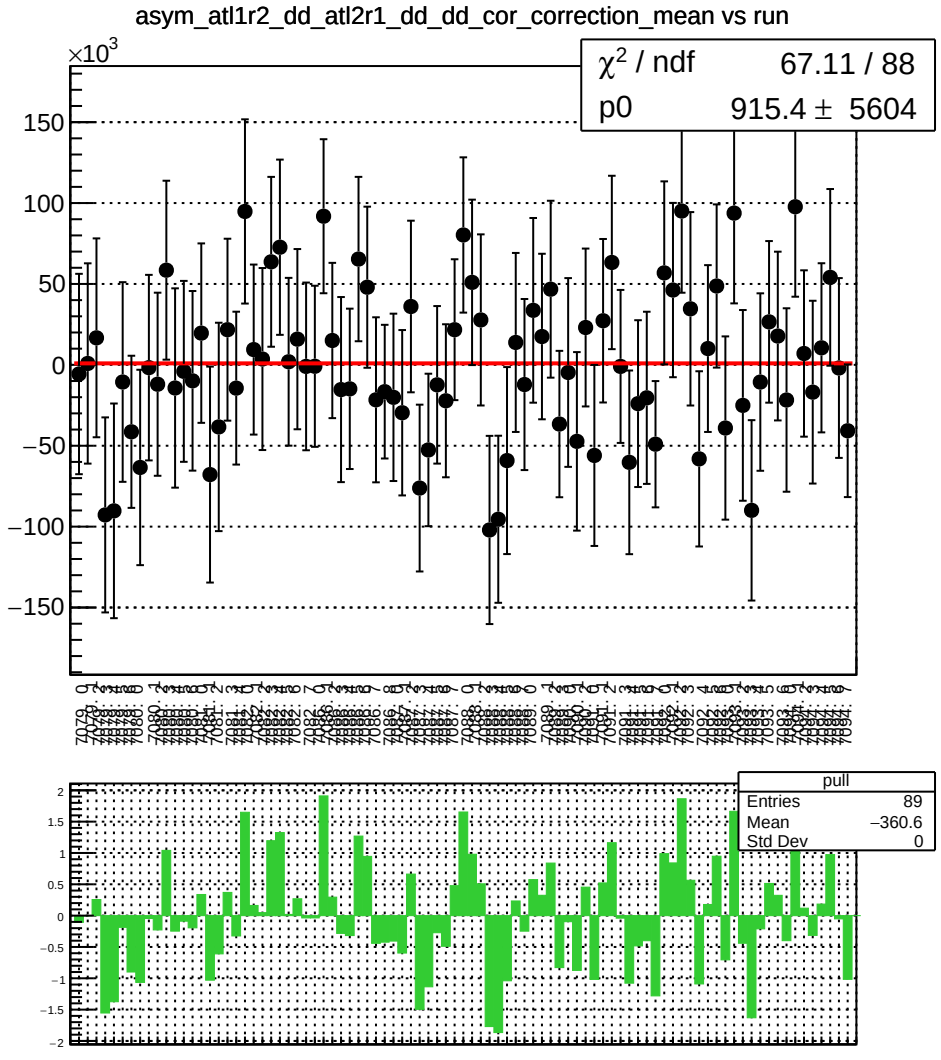

pull1D
Entries 89
Mean −0.004296
Std Dev 0.8683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

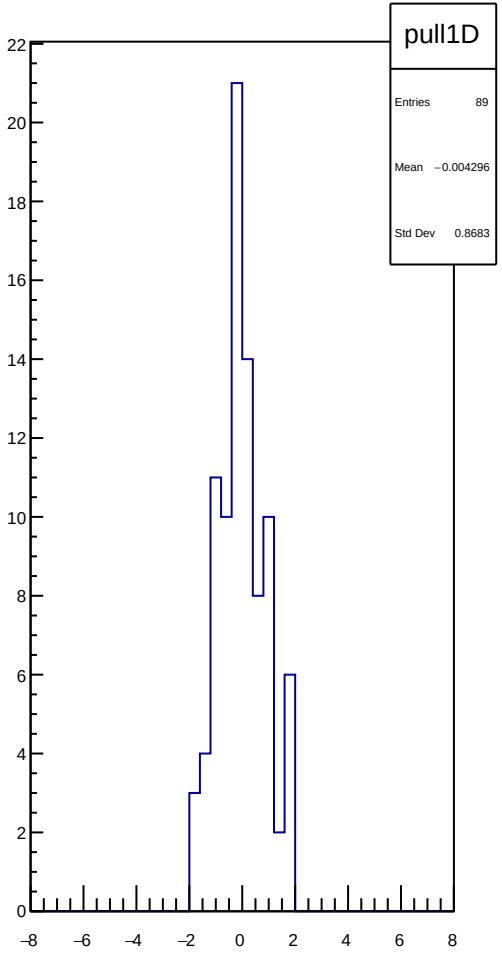

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.055e+04 / 88
p0 5129 ± 3.962
6500
6000
5500
5000
4500

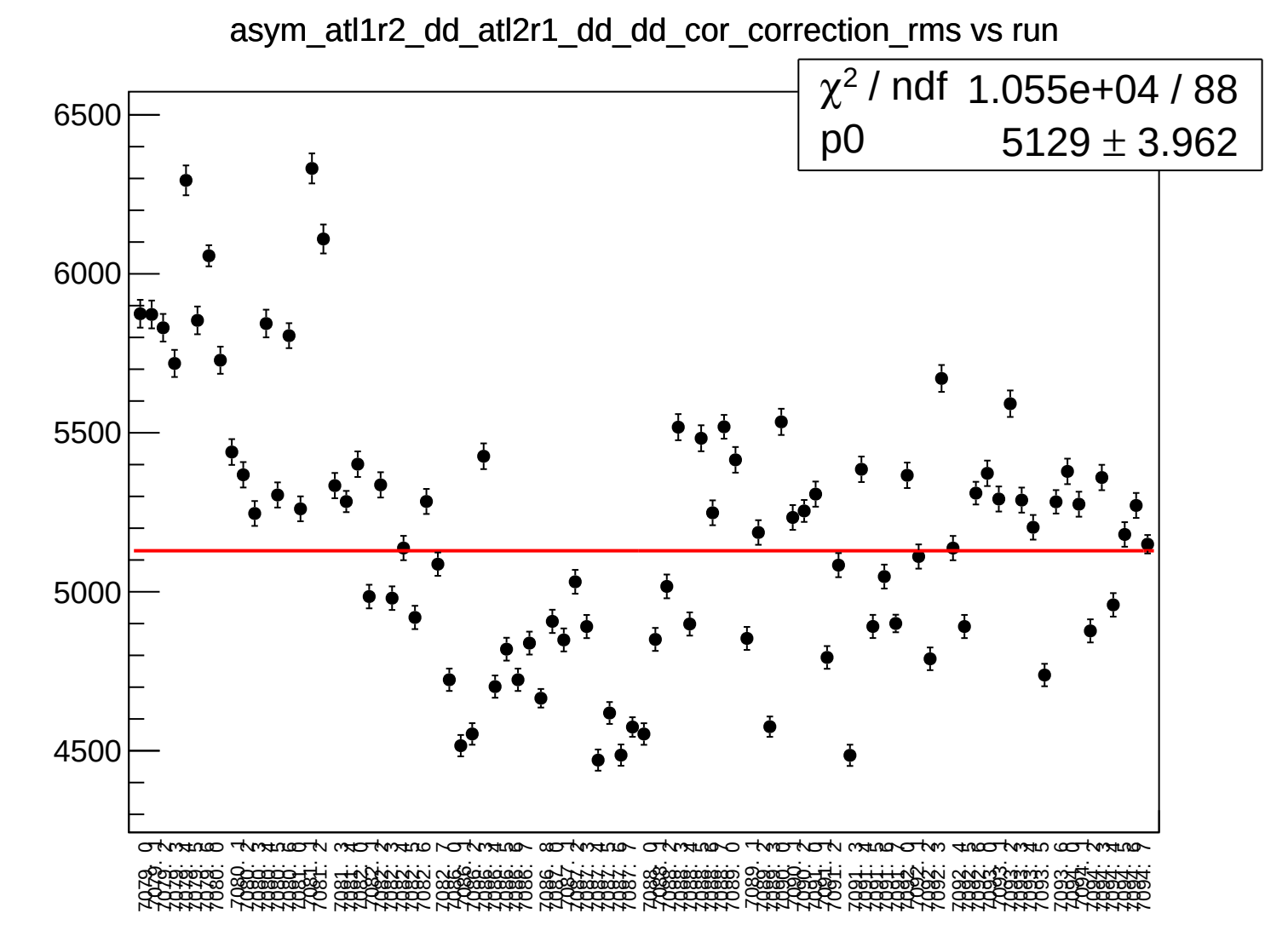

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 79.37 / 88
p0 1552 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2552
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

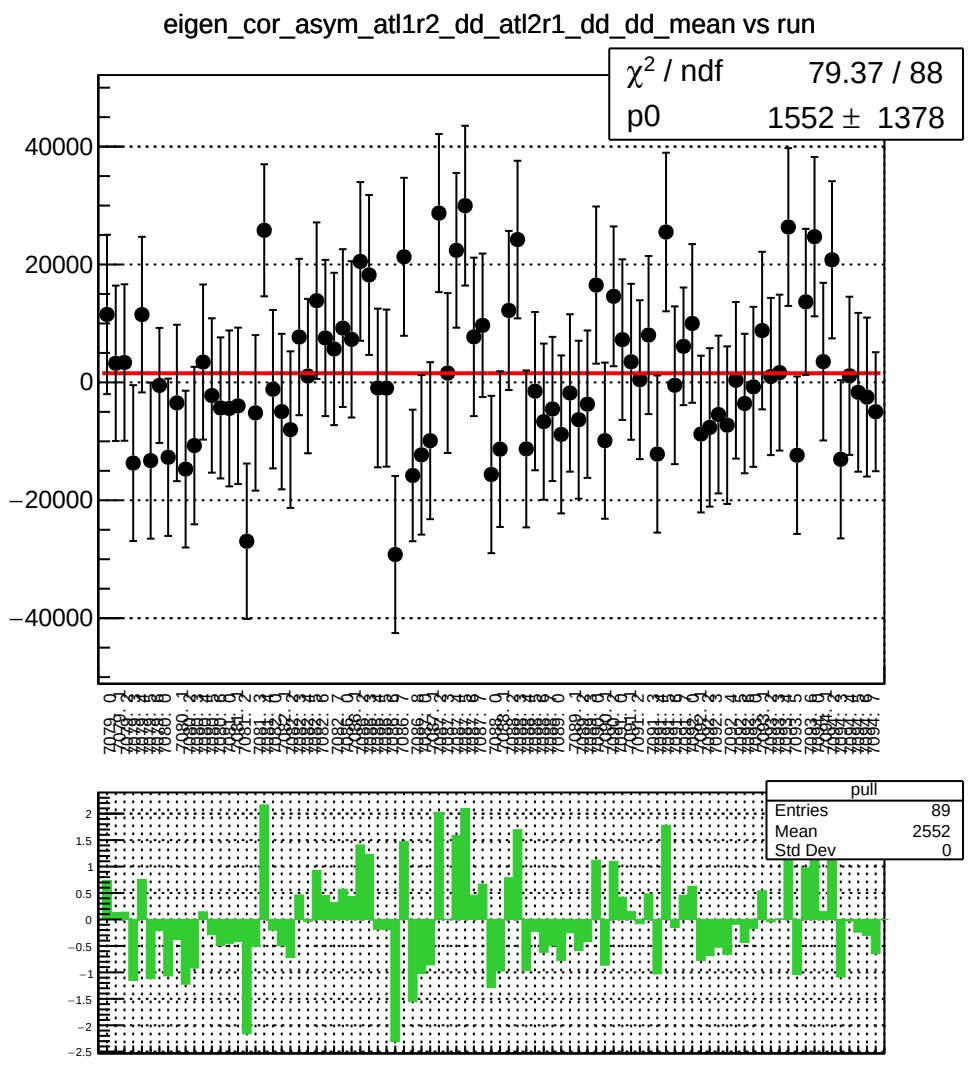

pull1D
Entries 89
Mean 0.001047
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

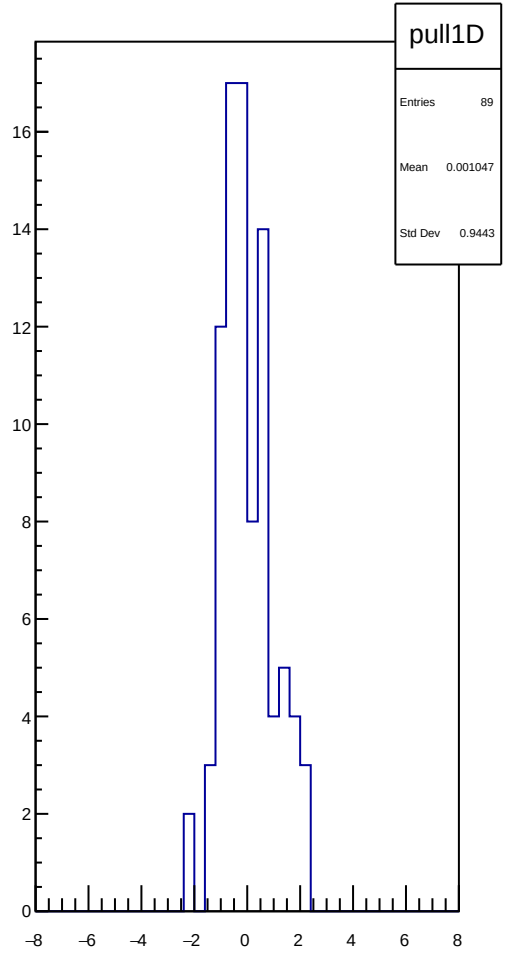

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 131.2 / 88
p0 1265 ± 0.9745
1300
1290
1280
1270
1260
1250
1240
1230

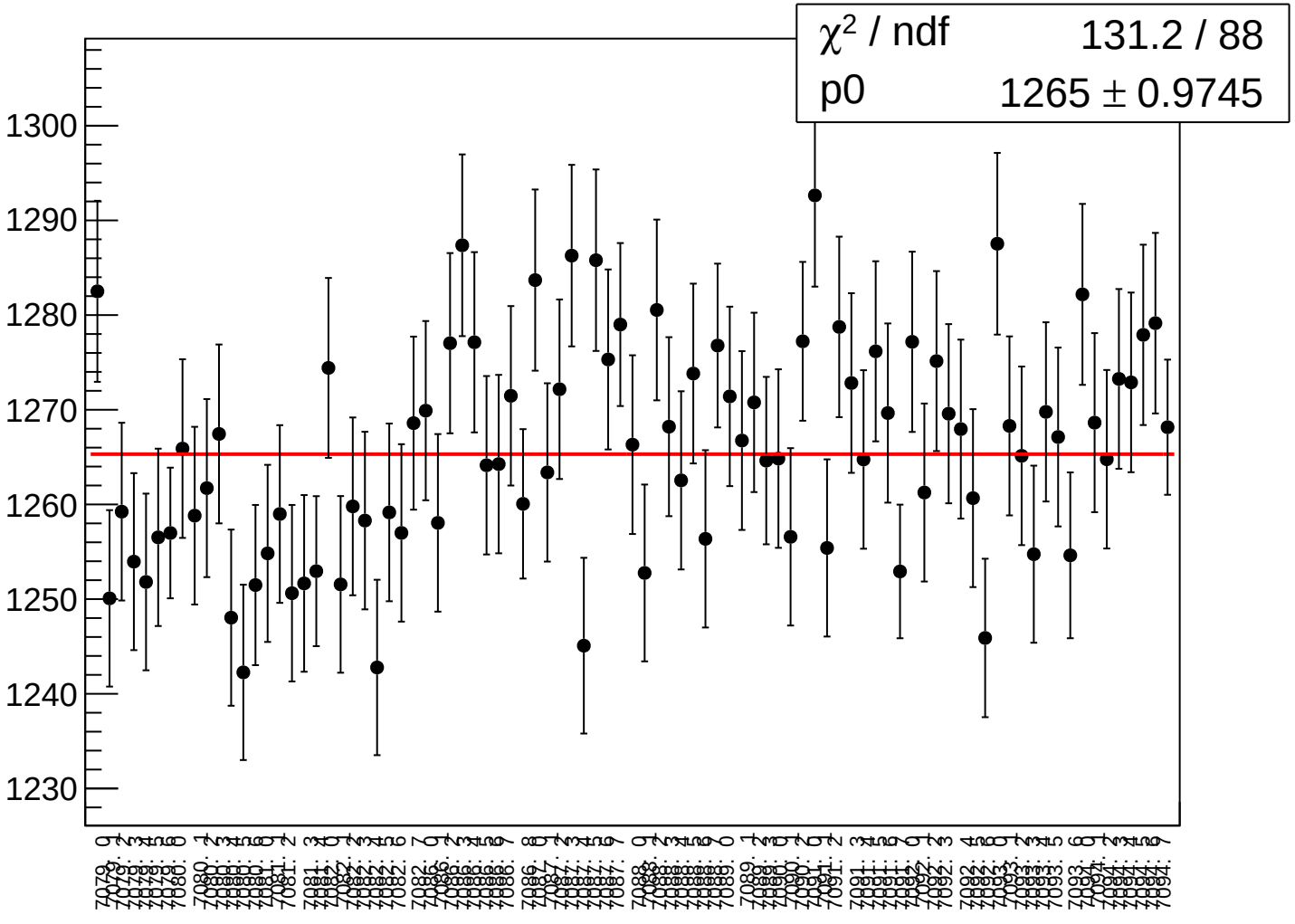

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 67.11 / 88
p0 915.4 ± 5604
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −360.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

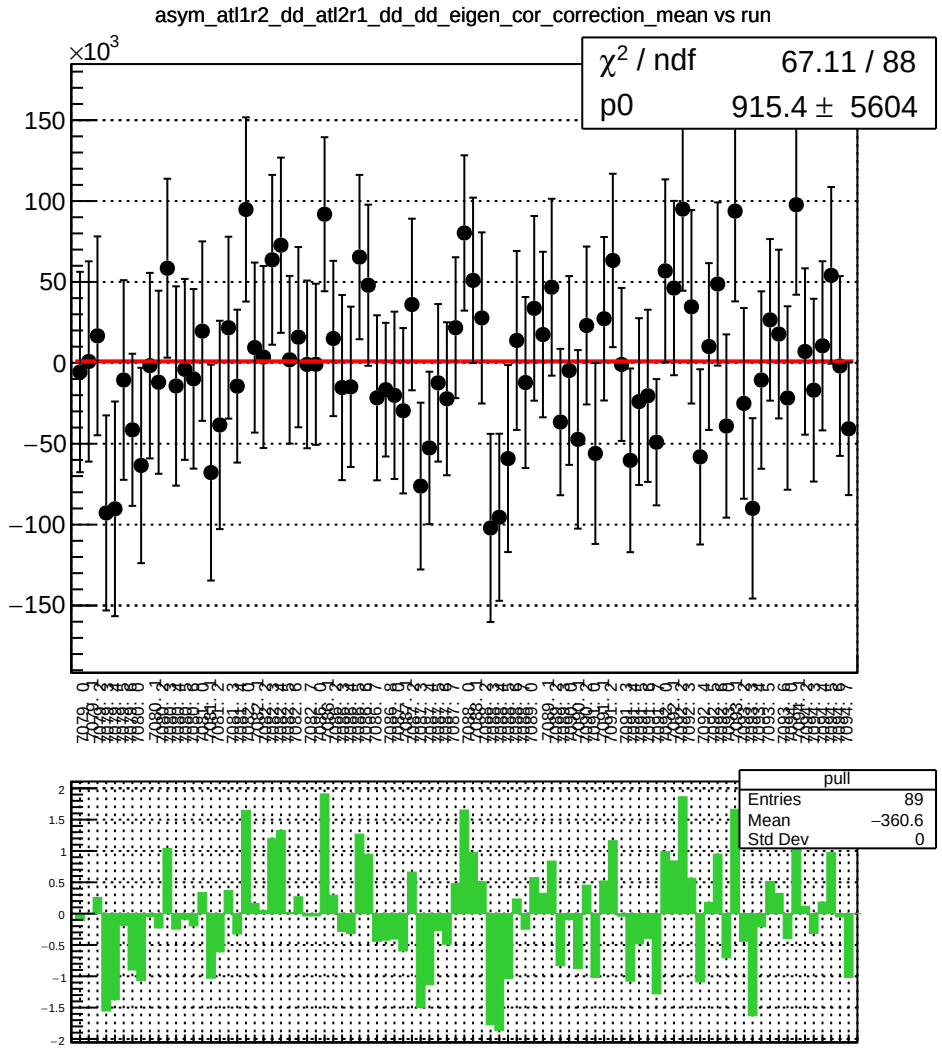

pull1D
Entries 89
Mean −0.004296
Std Dev 0.8683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

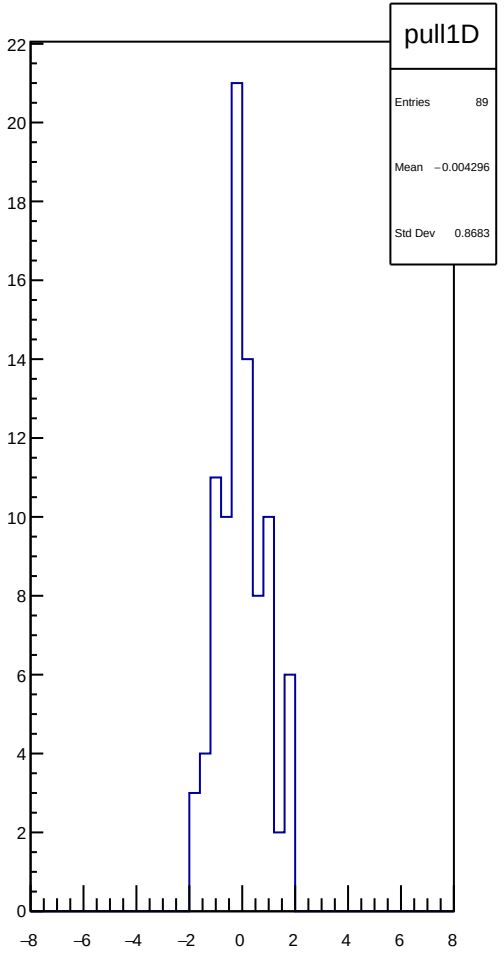

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.055e+04 / 88
p0 5129 ± 3.962
6500
6000
5500
5000
4500

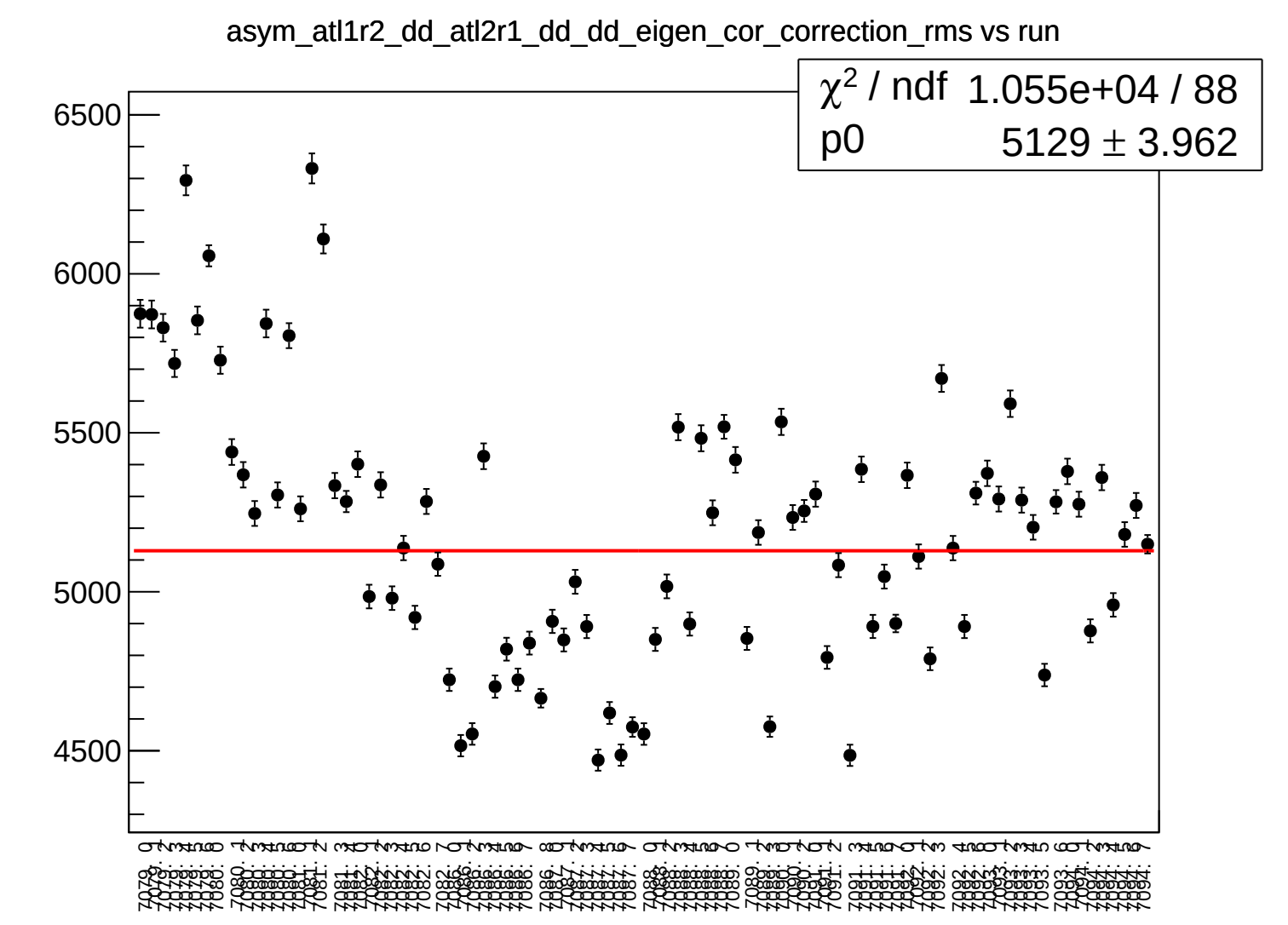

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 79.37 / 88
p0 1552 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2552
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

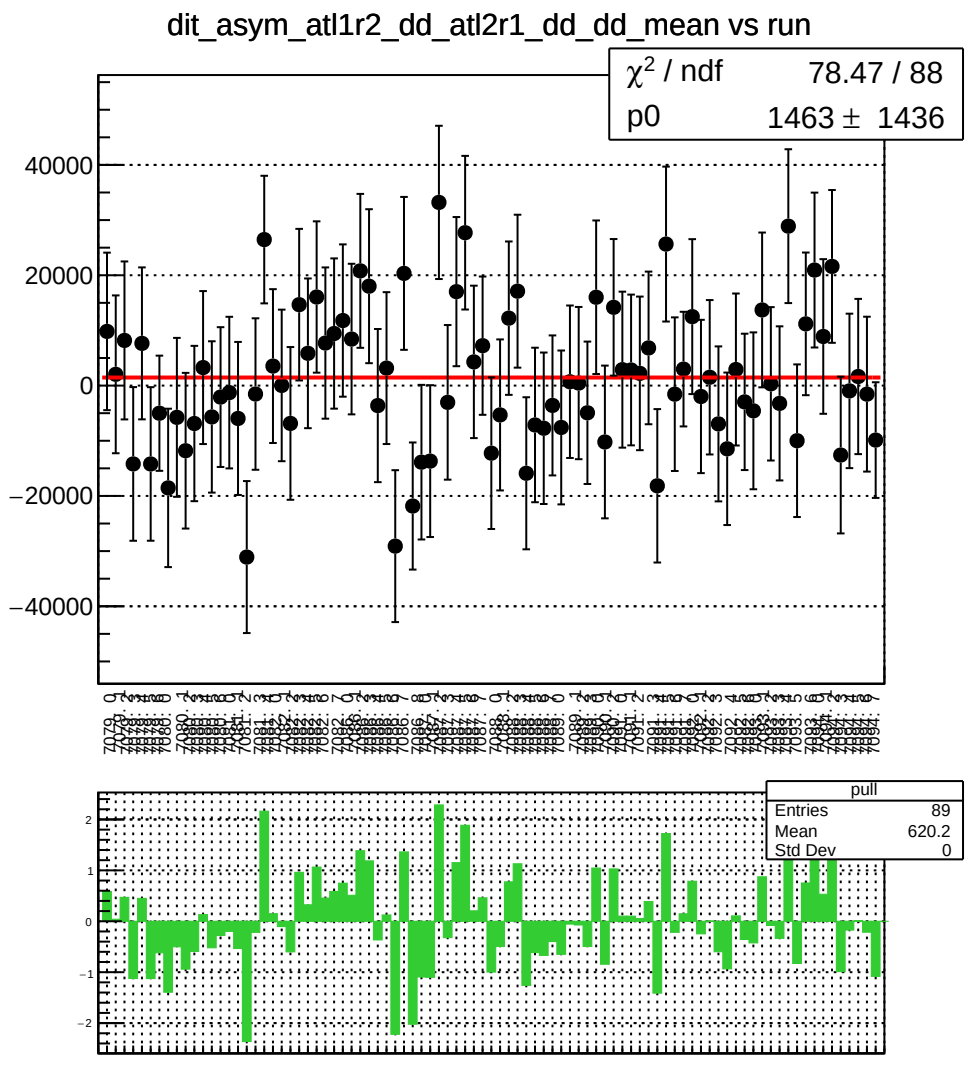

pull1D
Entries 89
Mean 0.001047
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

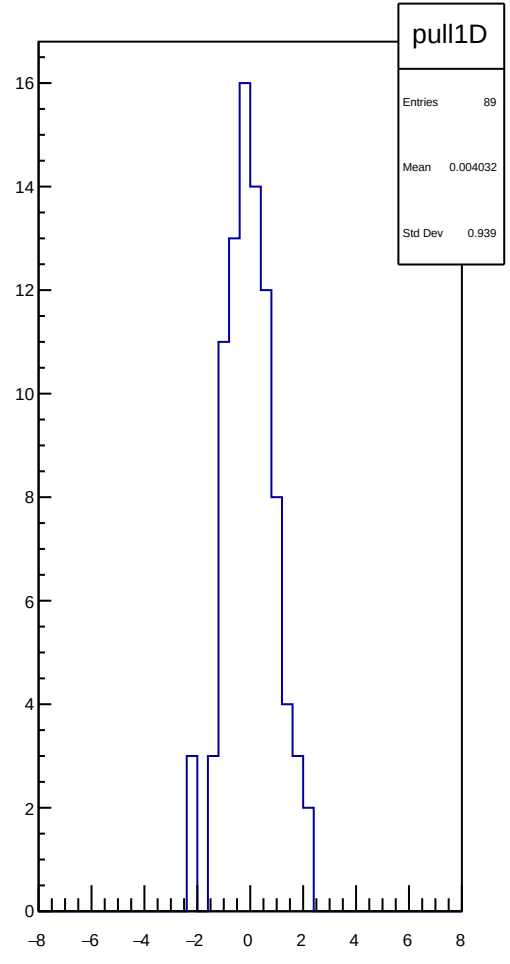

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 131.2 / 88
p0 1265 ± 0.9745
1300
1290
1280
1270
1260
1250
1240
1230

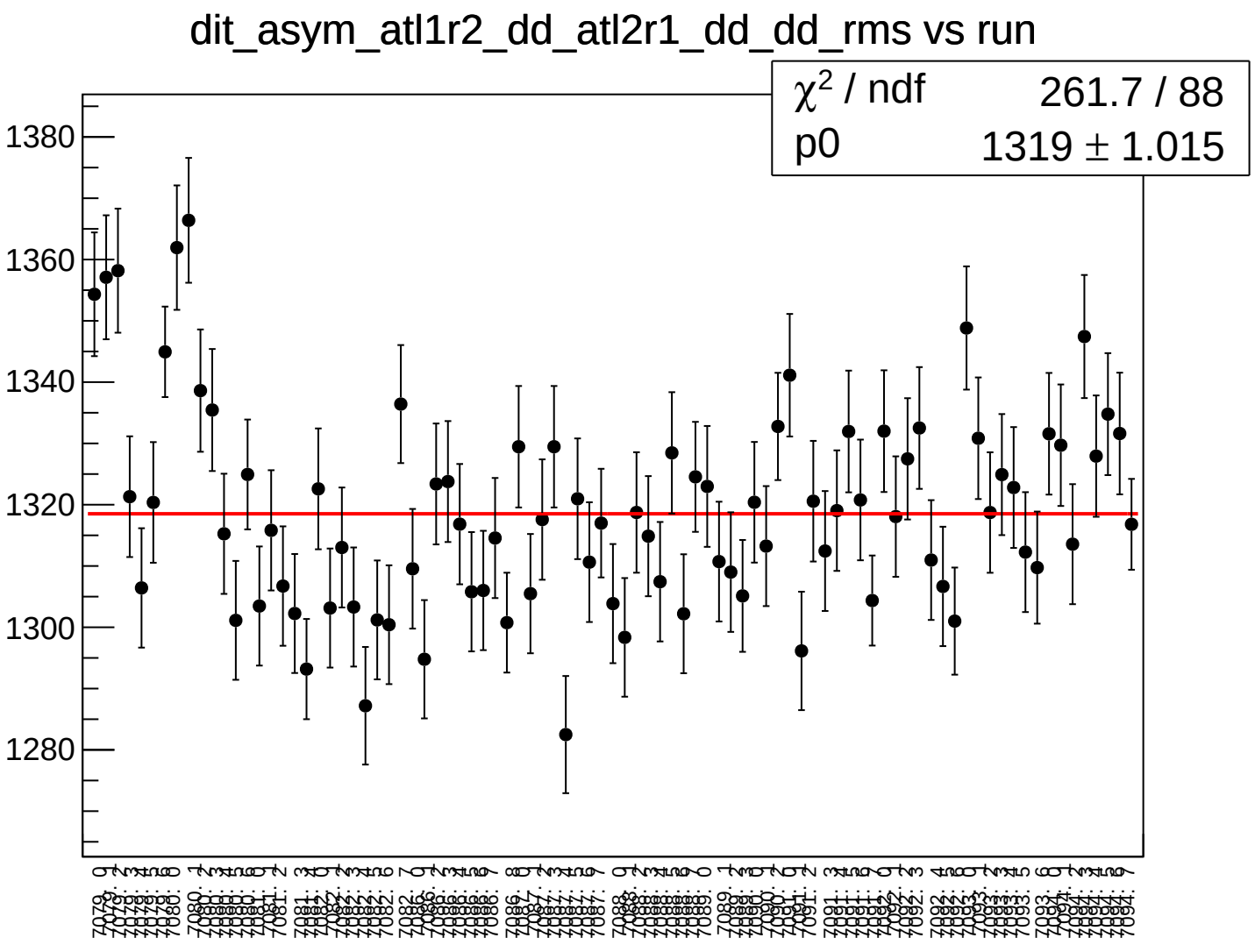

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.11 / 88
p0 915.4 ± 5604
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −360.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

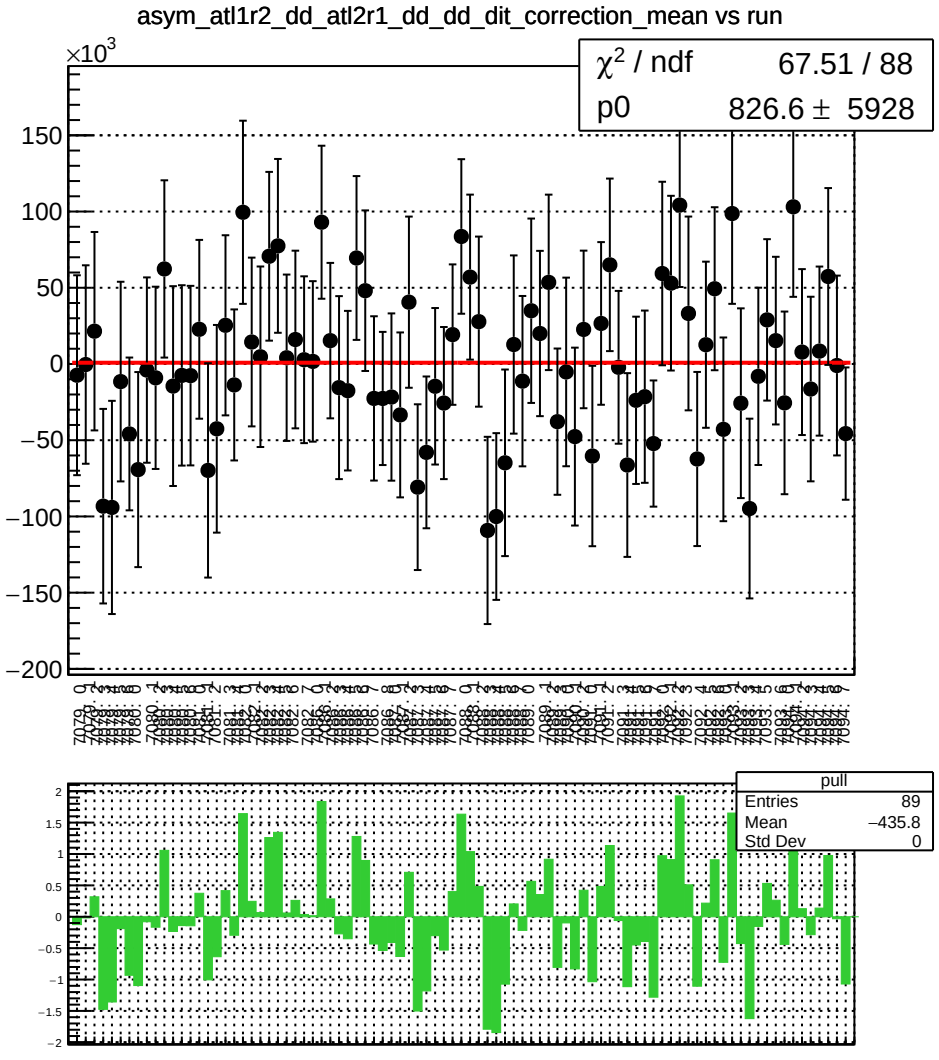

pull1D
Entries 89
Mean −0.004296
Std Dev 0.8683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

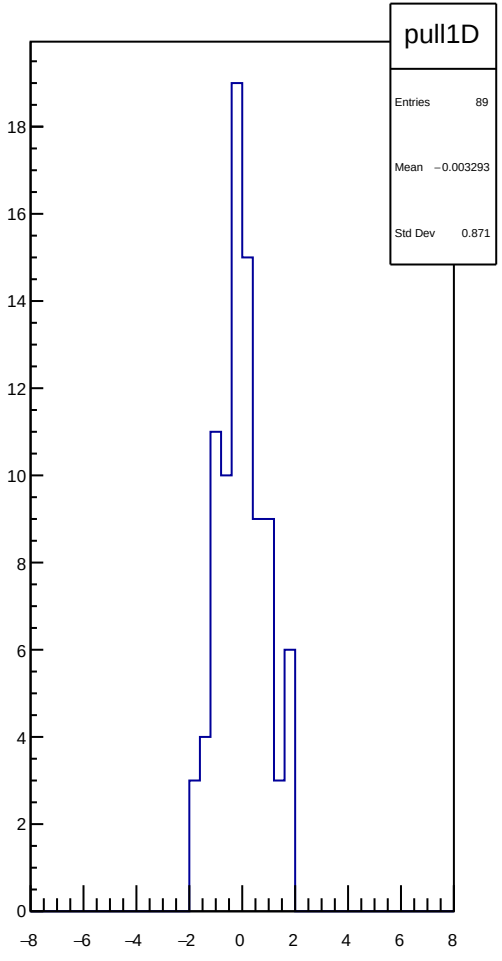

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.055e+04 / 88
p0 5129 ± 3.962
6500
6000
5500
5000
4500

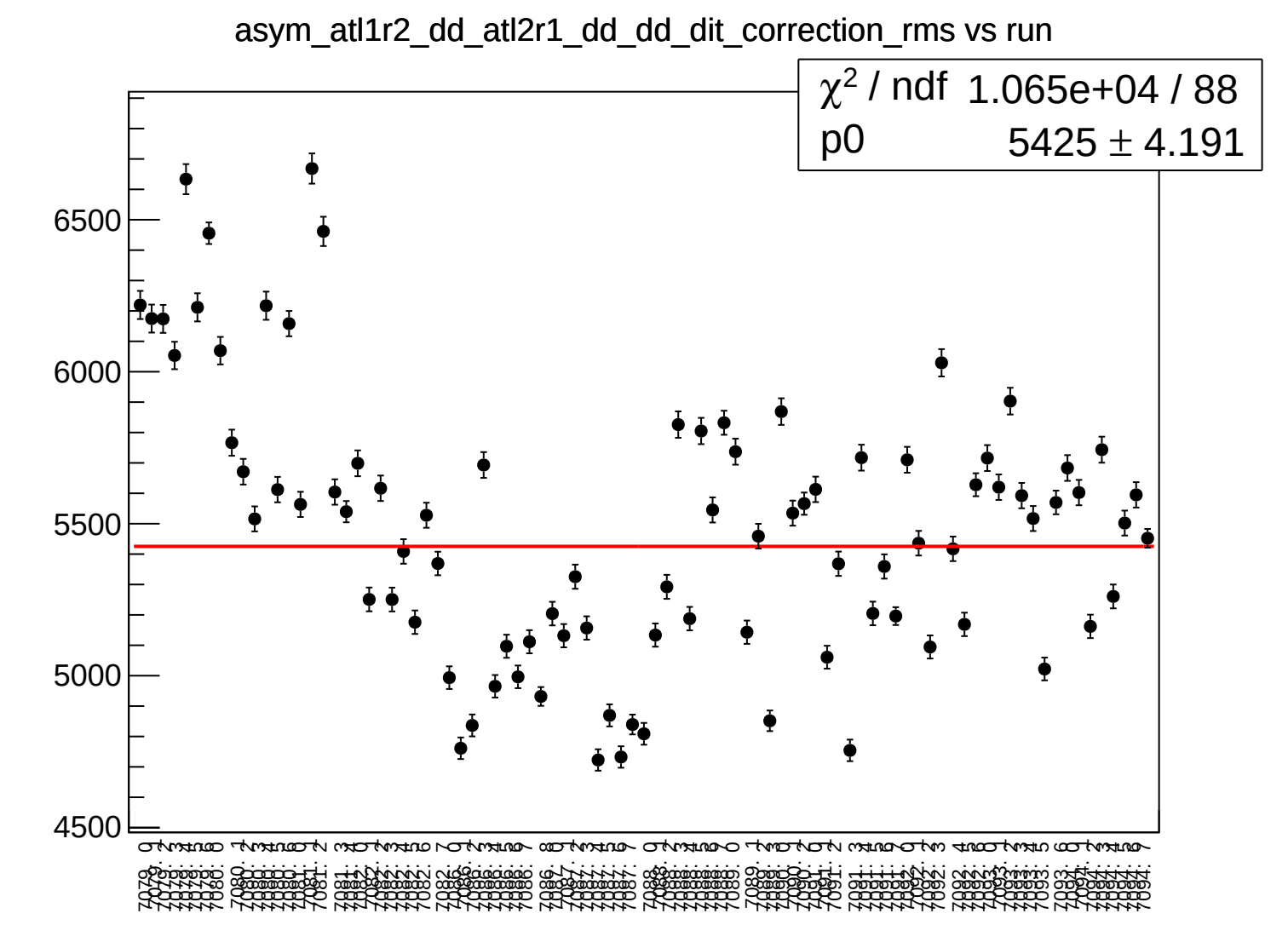

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.47 / 88
p0 1463 ± 1436
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 620.2
Std Dev 0
2
1
0
−1
−2

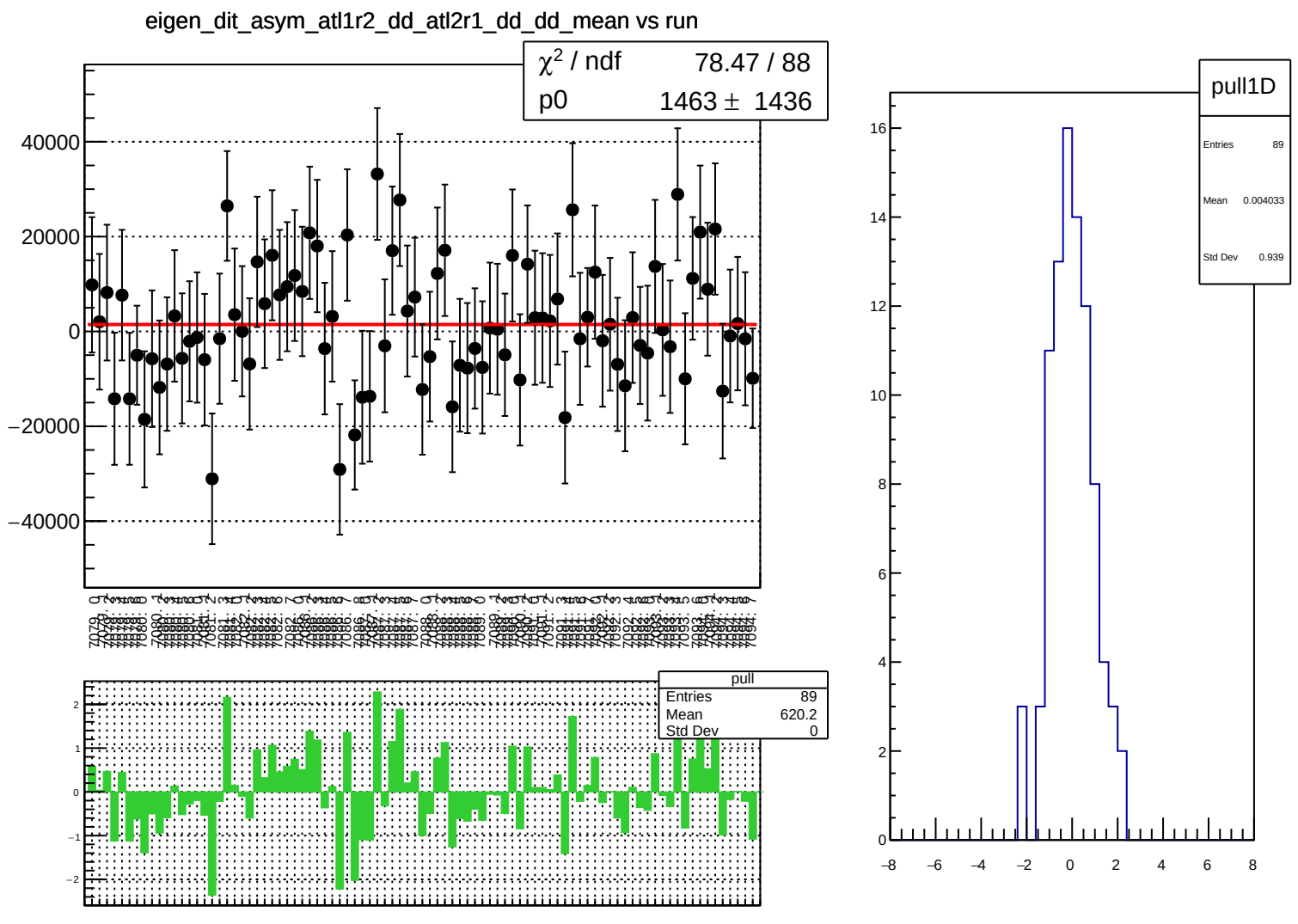

pull1D
Entries 89
Mean 0.004032
Std Dev 0.939
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

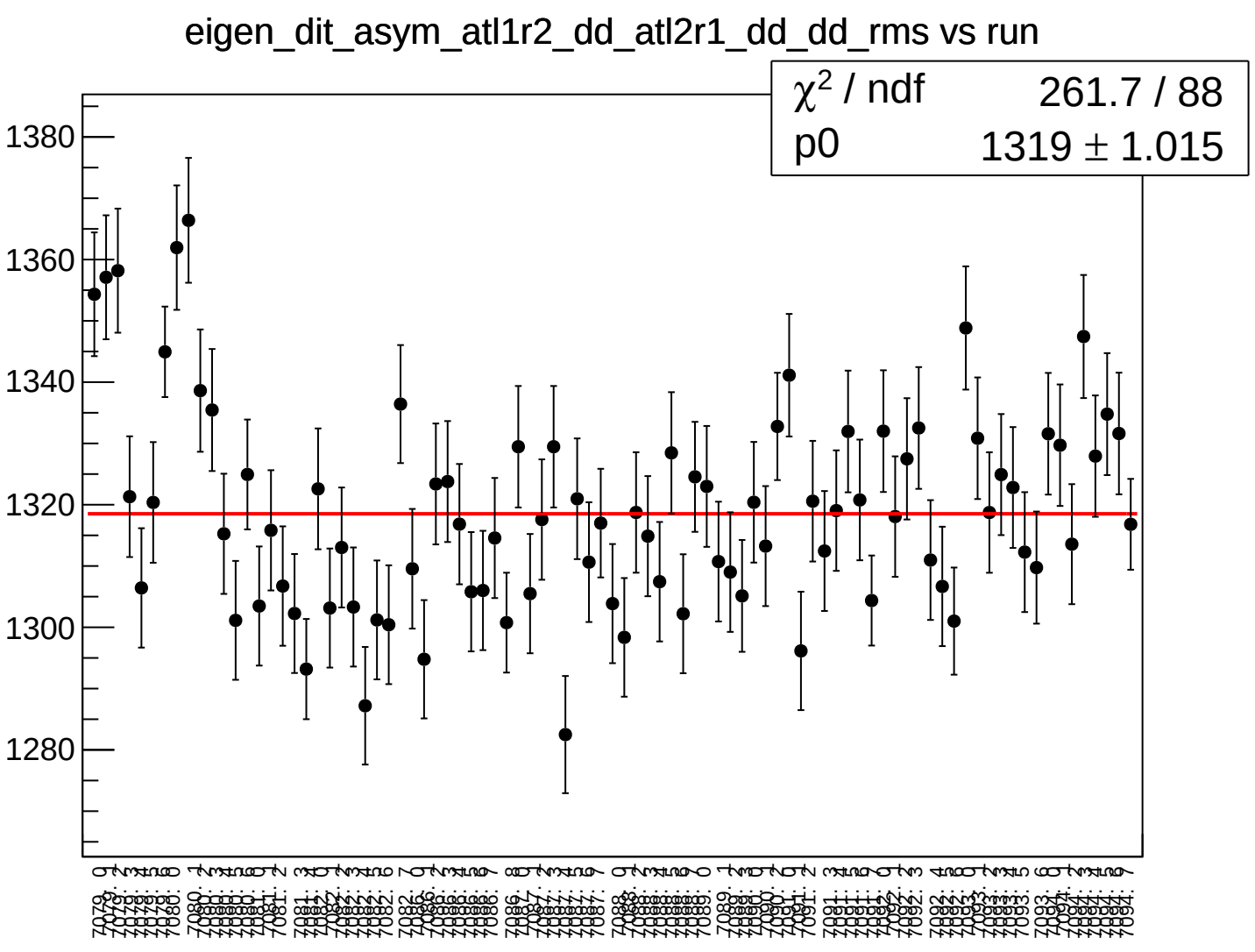

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 261.7 / 88
p0 1319 ± 1.015
1380
1360
1340
1320
1300
1280

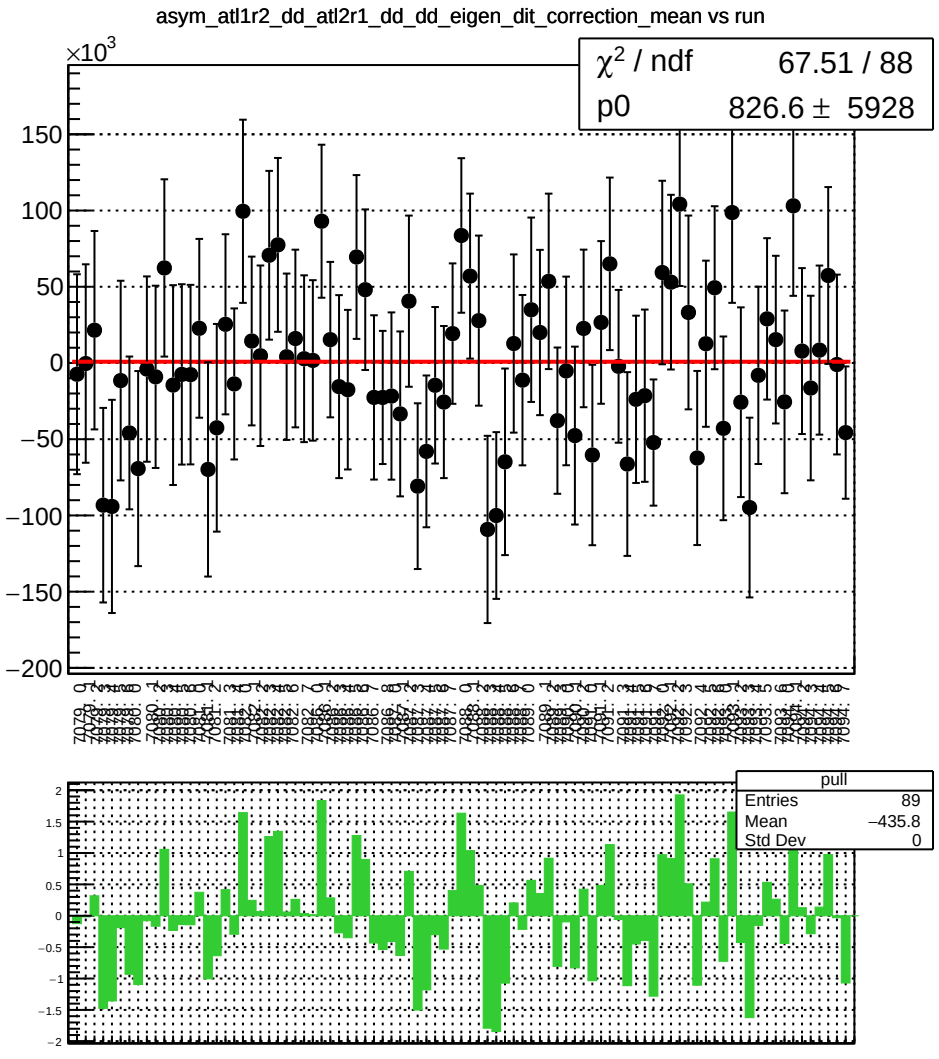

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 67.51 / 88
p0 826.6 ± 5928
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −435.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

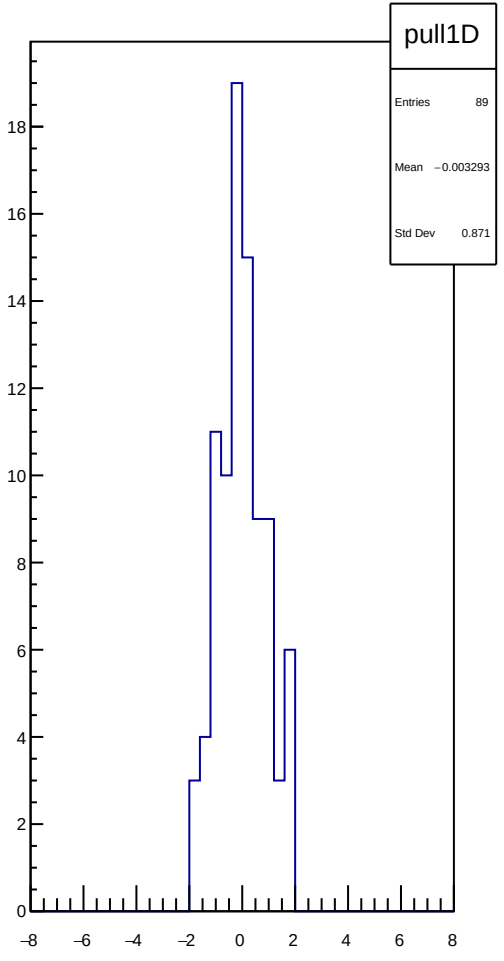

pull1D
Entries 89
Mean −0.003293
Std Dev 0.871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

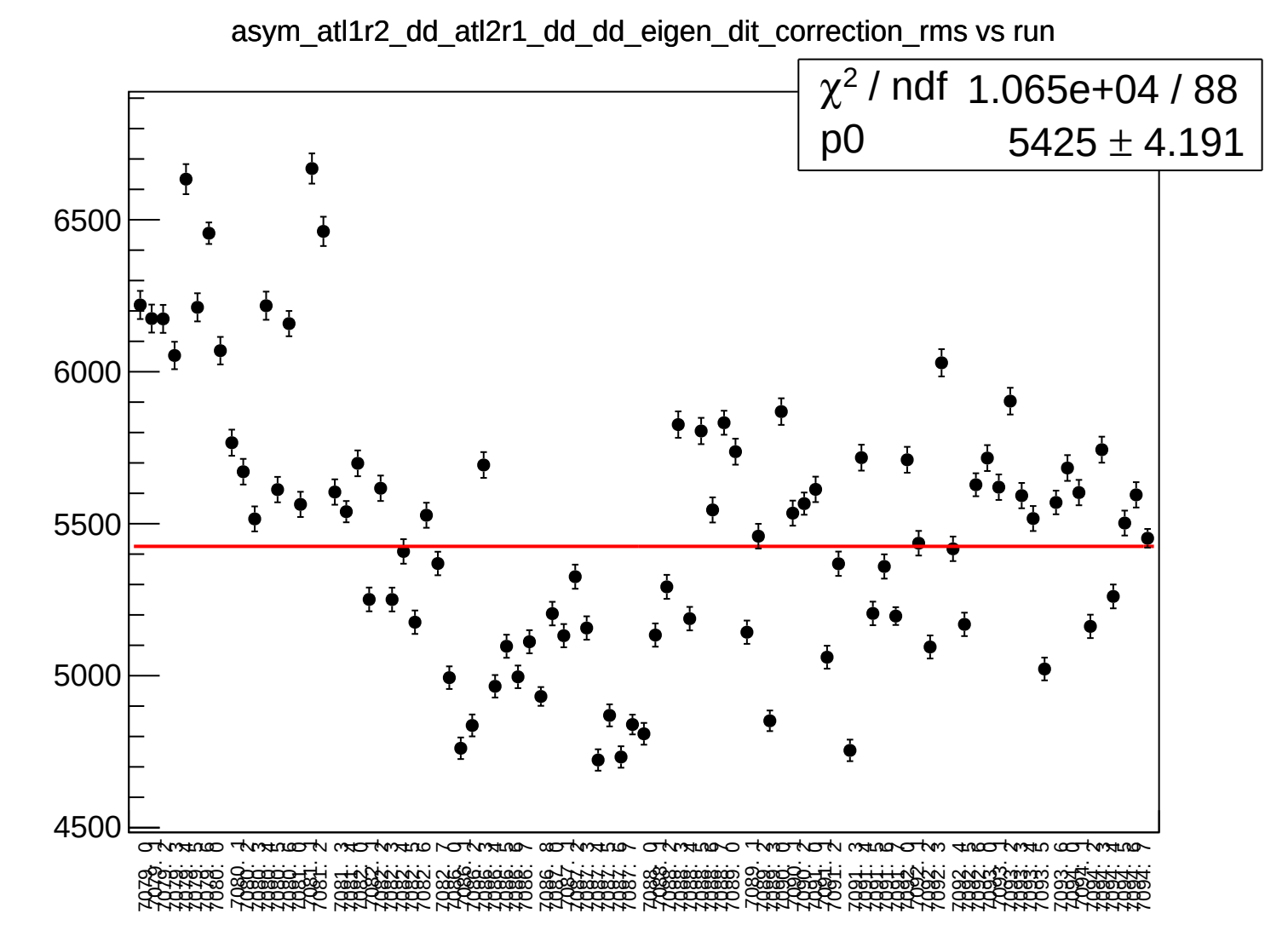

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.065e+04 / 88
p0 5425 ± 4.191
6500
6000
5500
5000
4500

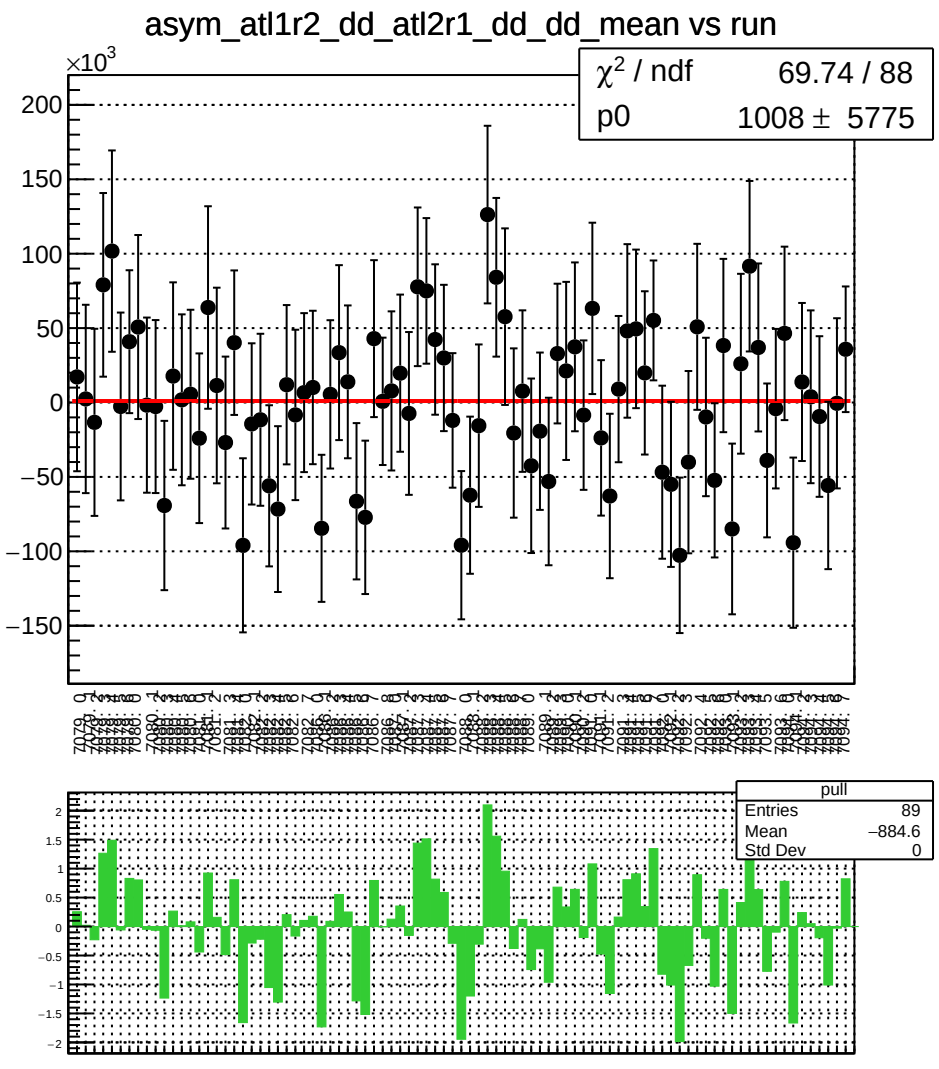

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.47 / 88
p0 1463 ± 1436
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 620.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.004033
Std Dev 0.939
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

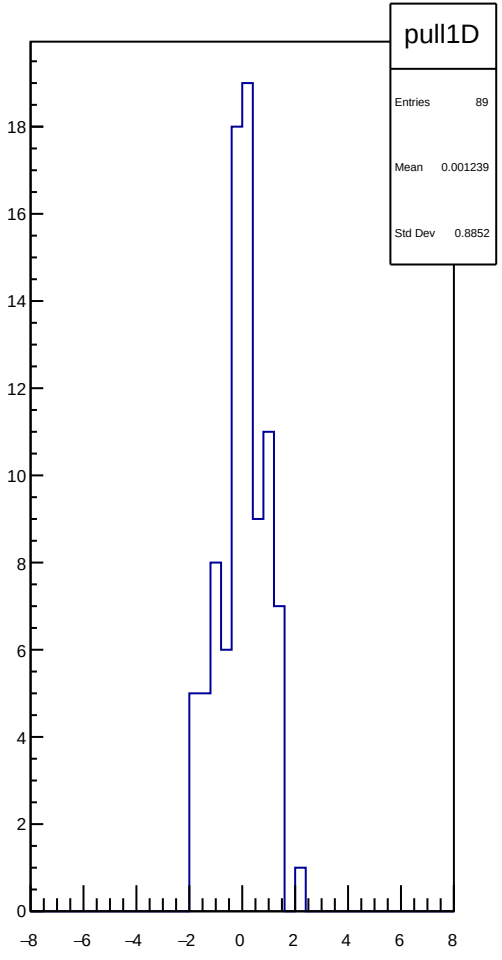

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 261.7 / 88
p0 1319 ± 1.015
1380
1360
1340
1320
1300
1280

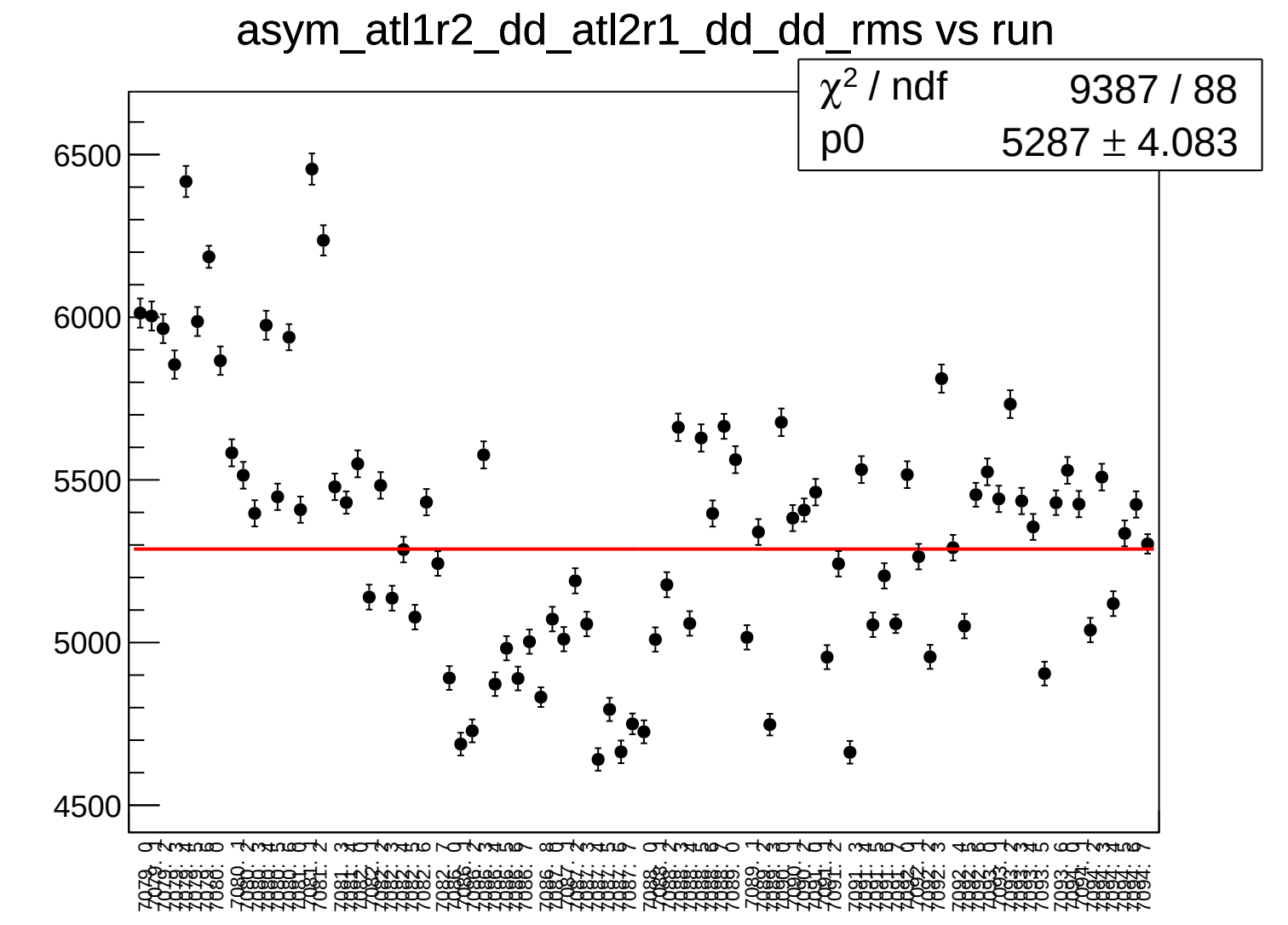

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.51 / 88
p0 826.6 ± 5928
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −435.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

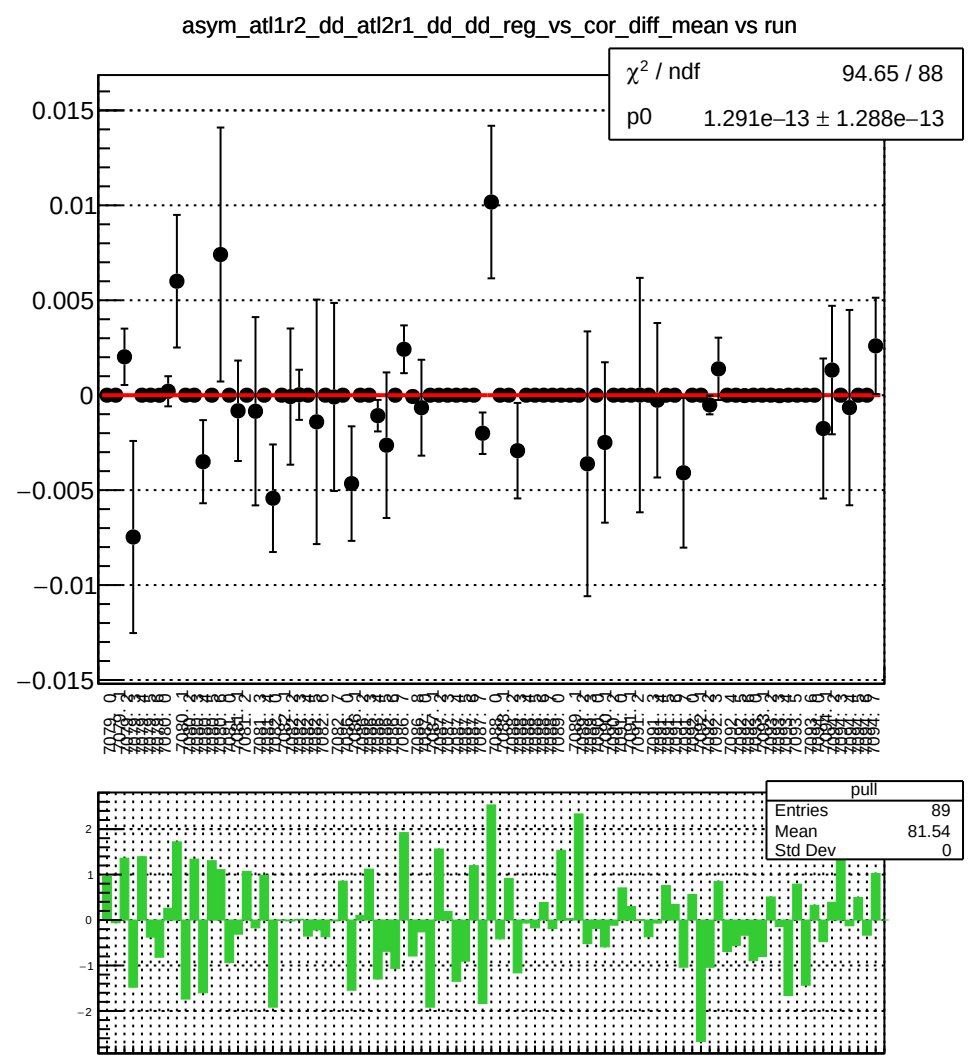

pull1D
Entries 89
Mean −0.003293
Std Dev 0.871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

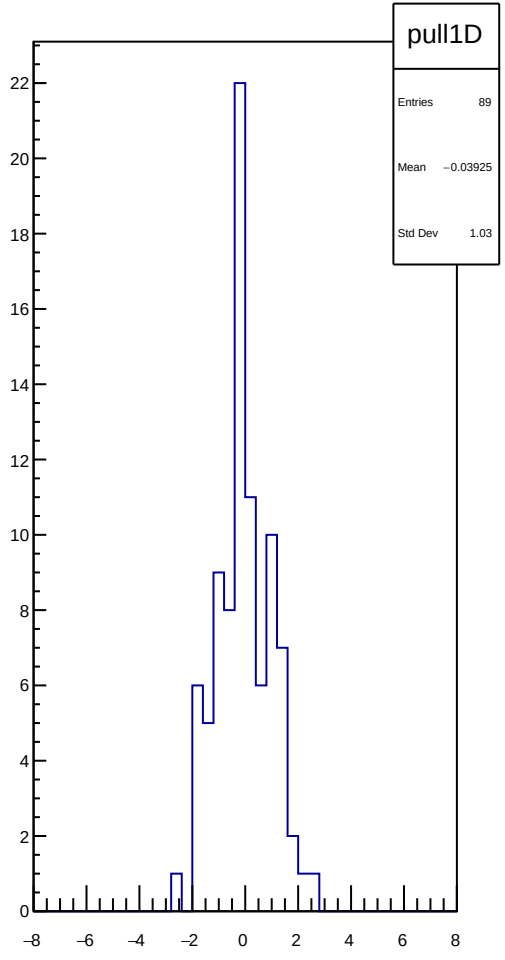

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.065e+04 / 88
p0 5425 ± 4.191
6500
6000
5500
5000
4500

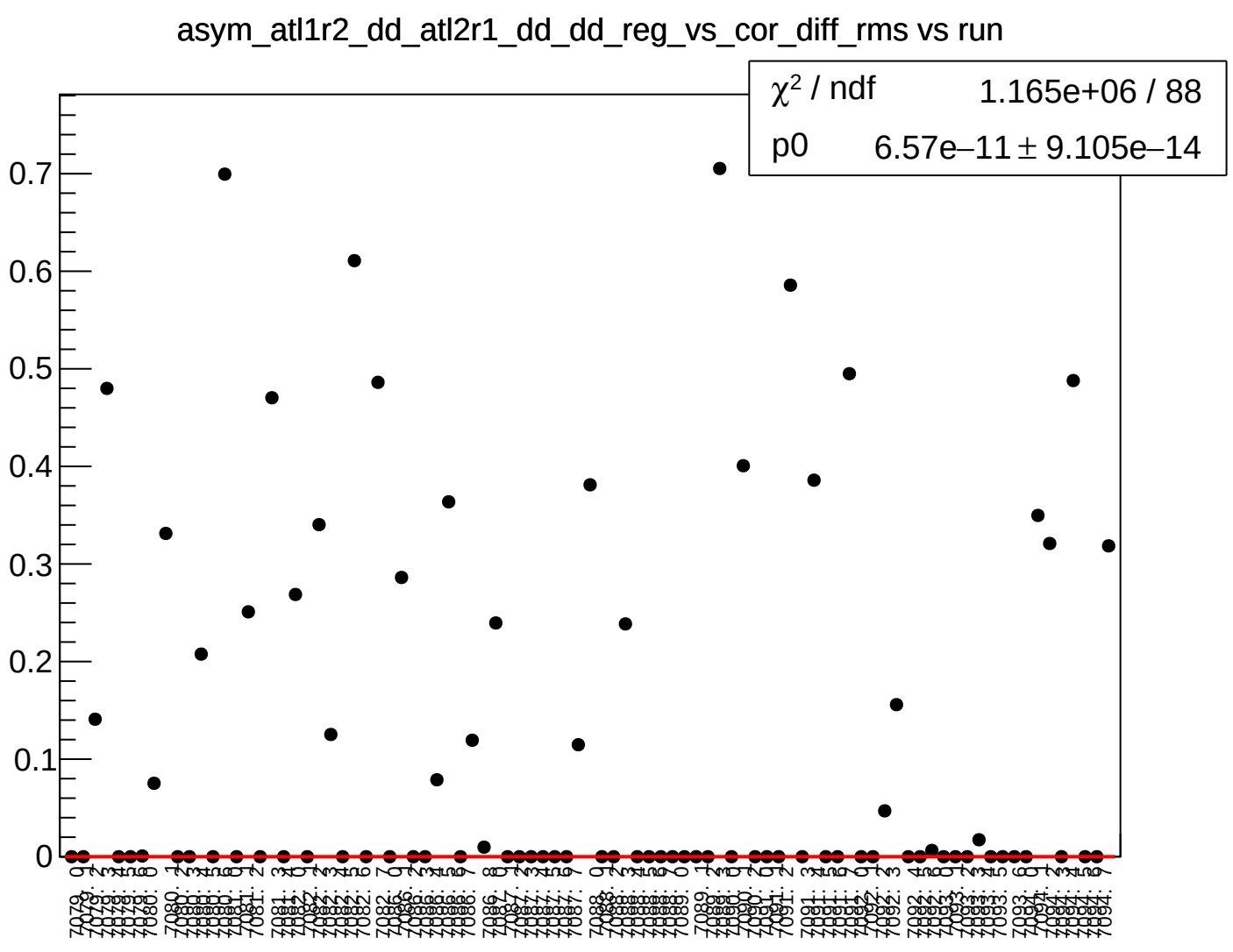

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 69.74 / 88
p0 1008 ± 5775
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −884.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

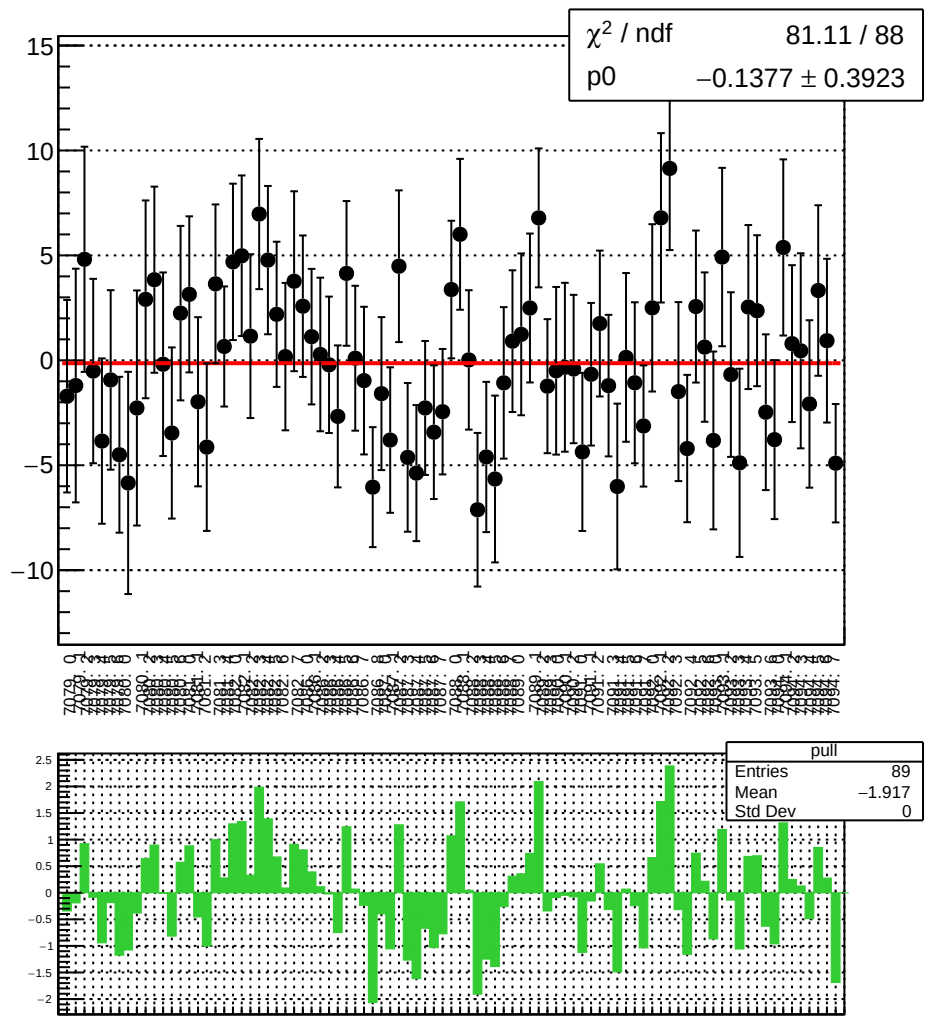

pull1D
Entries 89
Mean 0.001239
Std Dev 0.8852
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

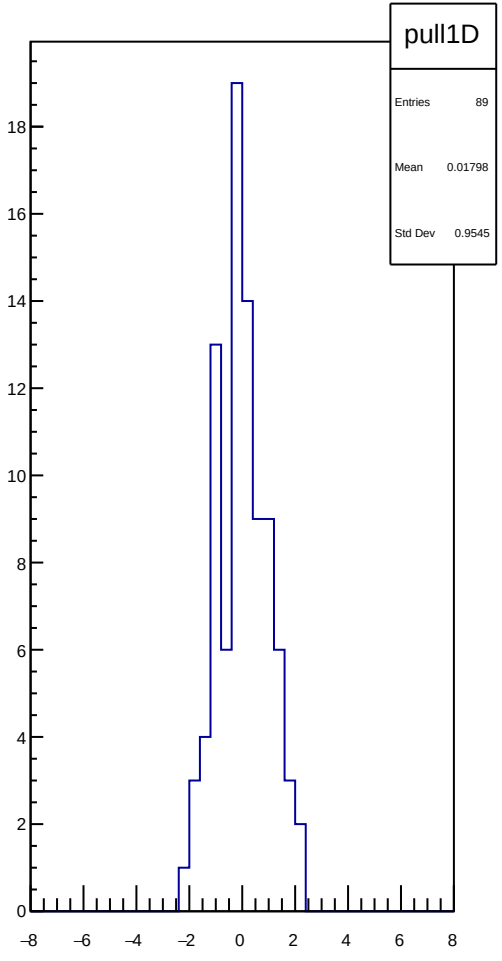

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 9387 / 88
p0 5287 ± 4.083
6500
6000
5500
5000
4500

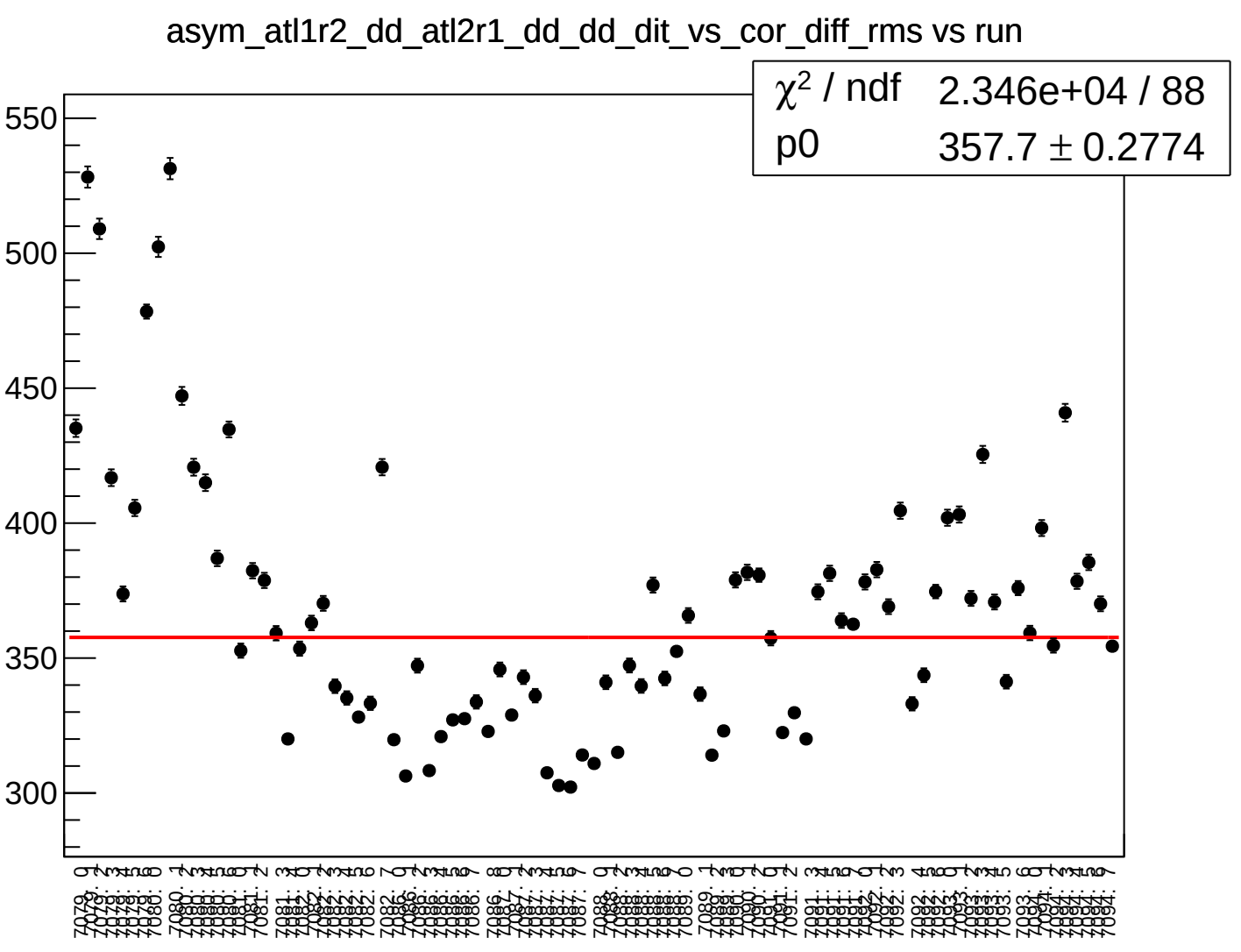

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.65 / 88
p0 1.291e−13 ± 1.288e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 81.54
Std Dev 0
2
1
0
−1
−2

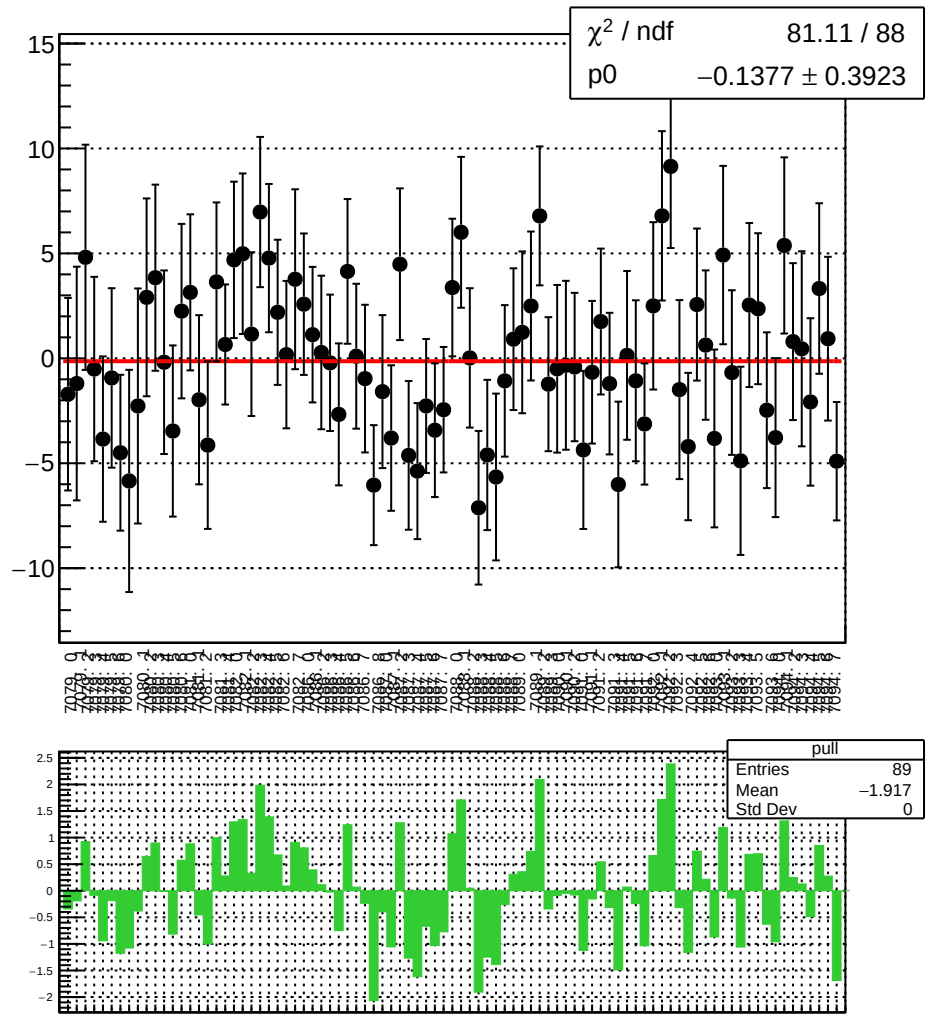

pull1D
Entries 89
Mean −0.03925
Std Dev 1.03
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

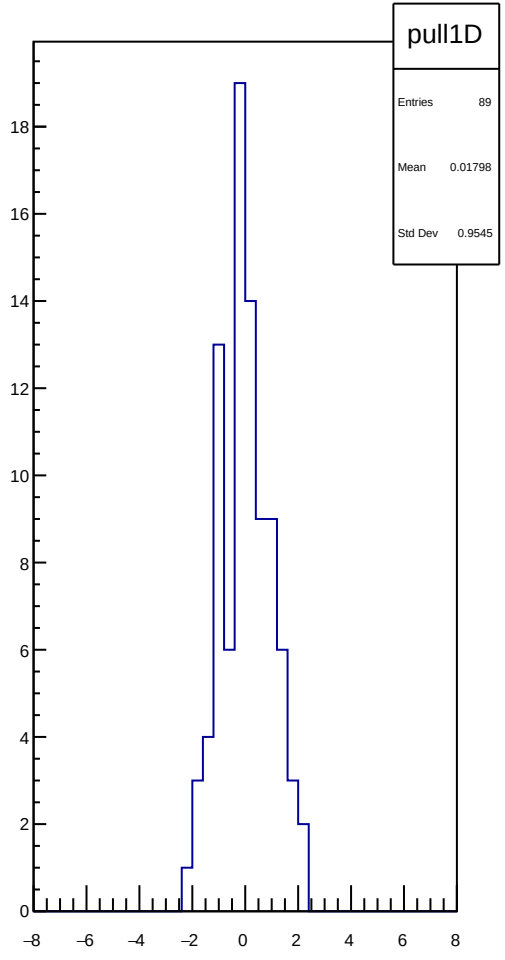

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.165e+06 / 88
p0 6.57e−11 ± 9.105e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

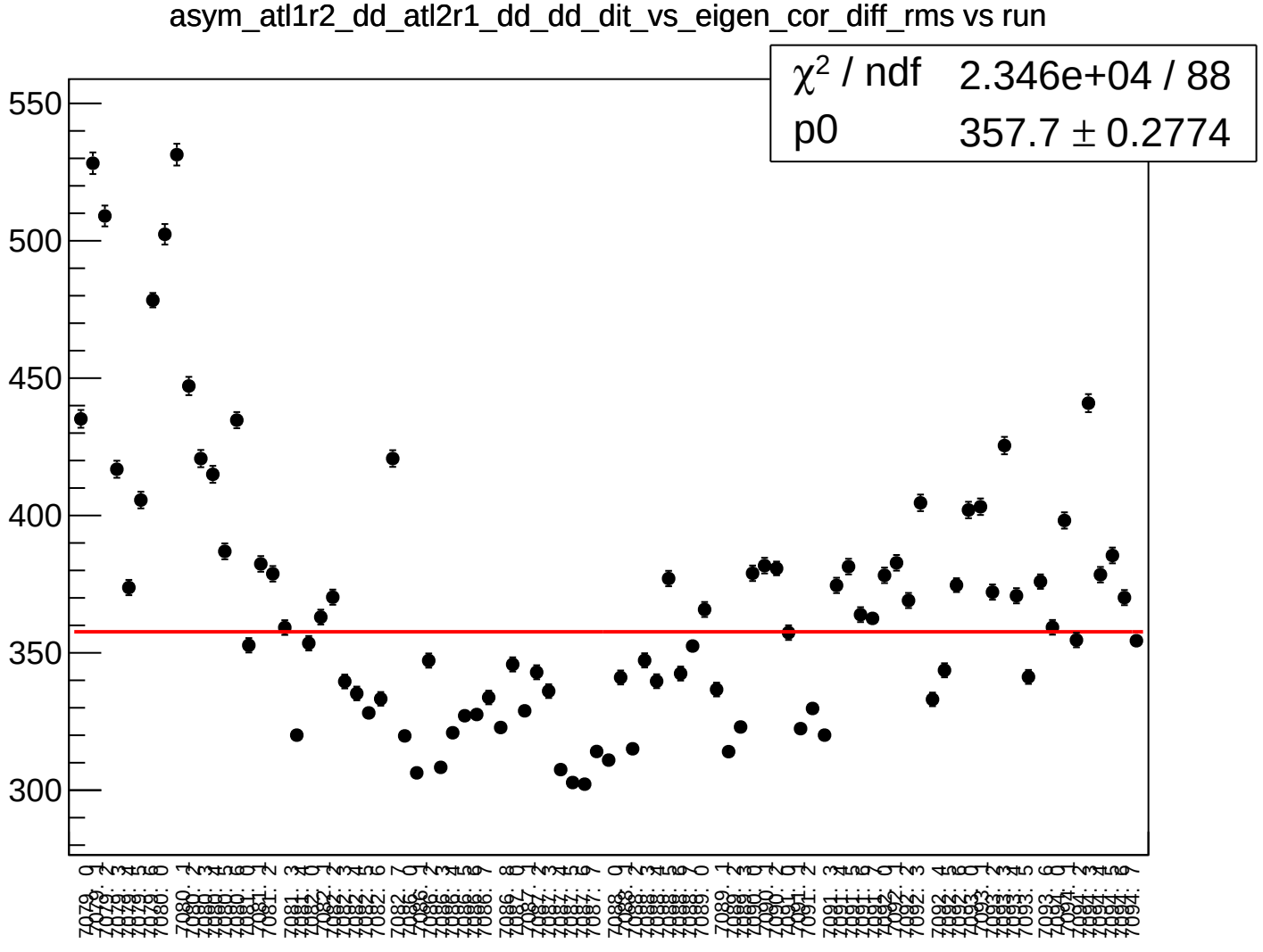

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.917
Std Dev 0

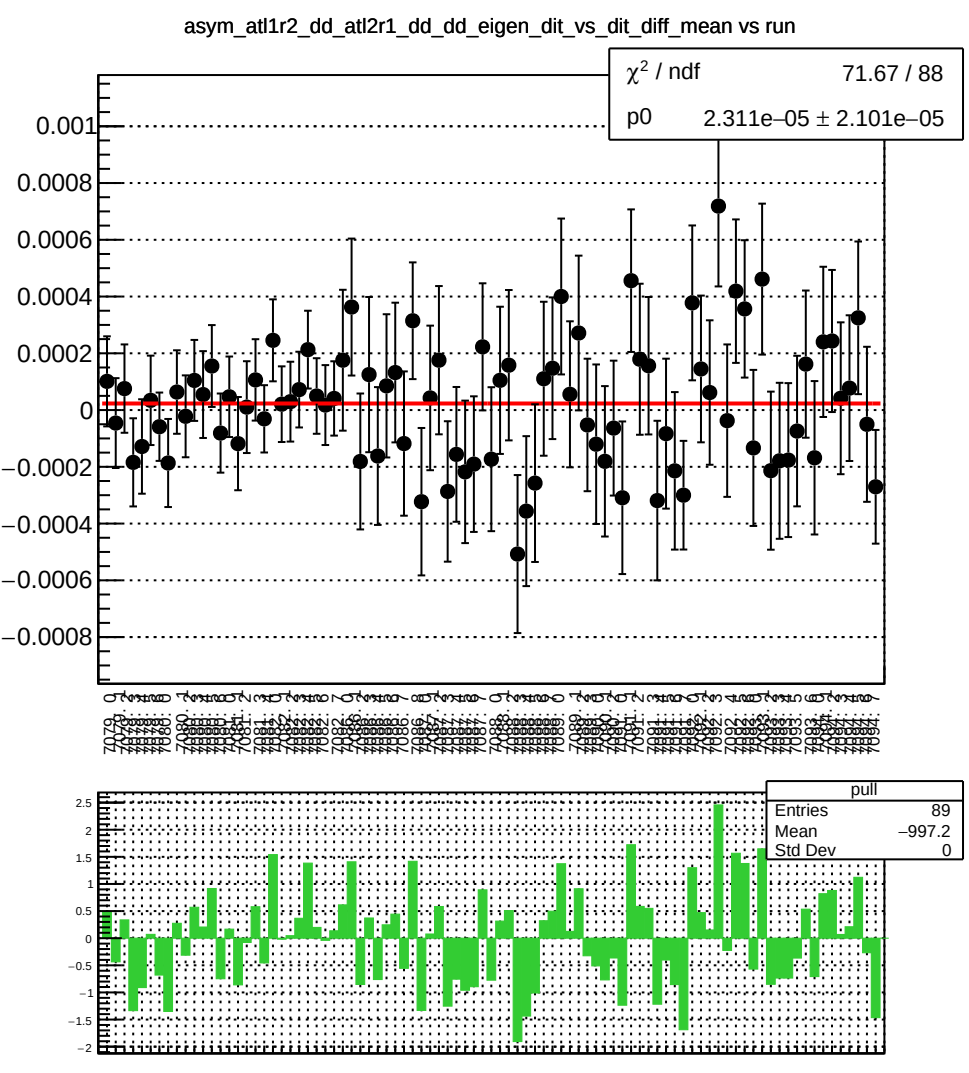

pull1D
Entries 89
Mean 0.01798
Std Dev 0.9545

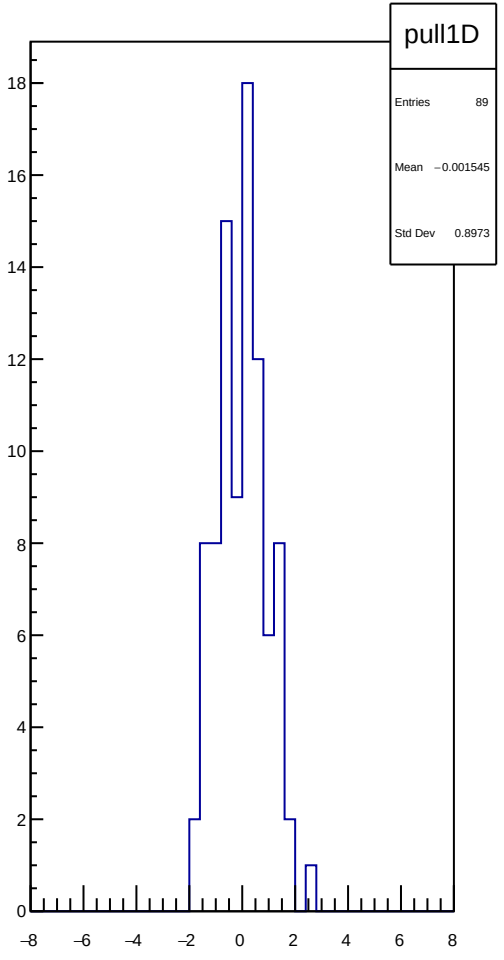

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

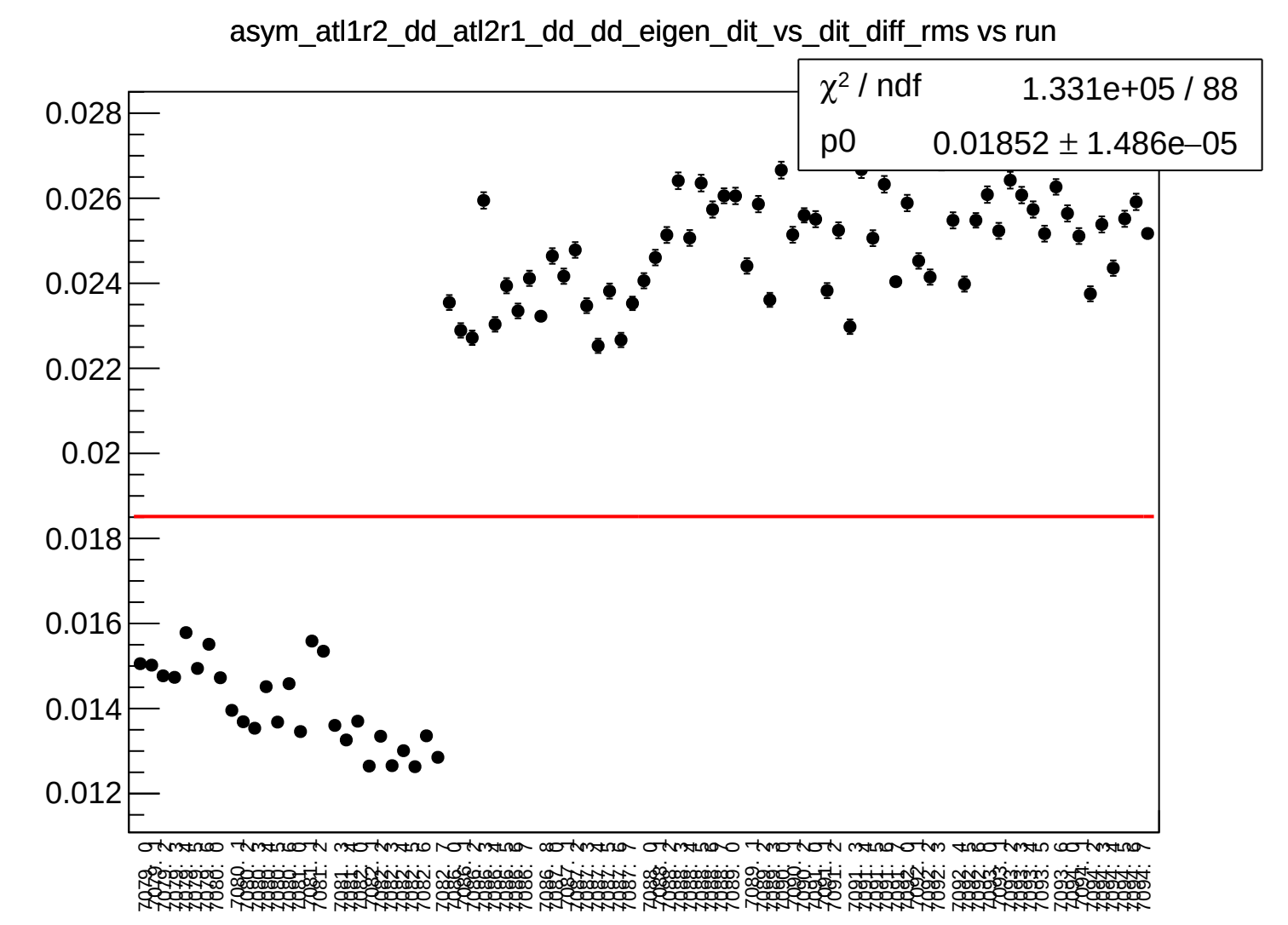

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.917
Std Dev 0

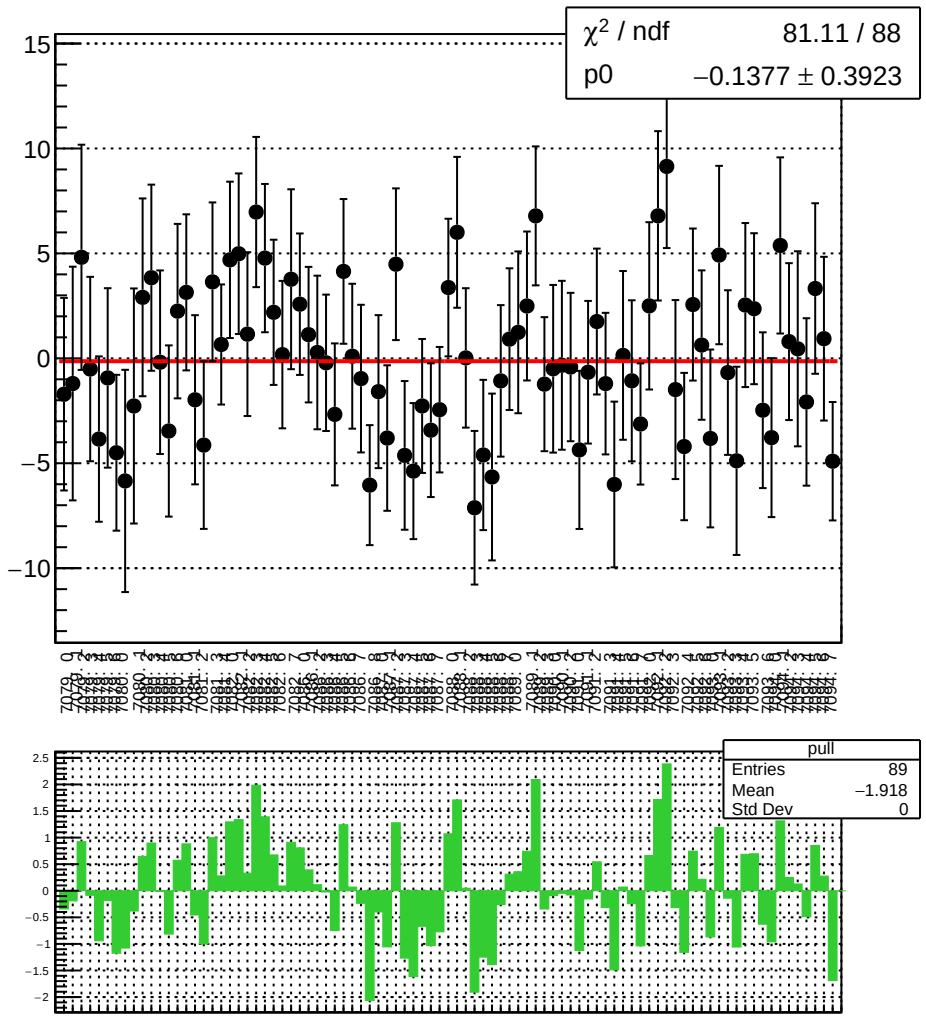

pull1D
Entries 89
Mean 0.01798
Std Dev 0.9545

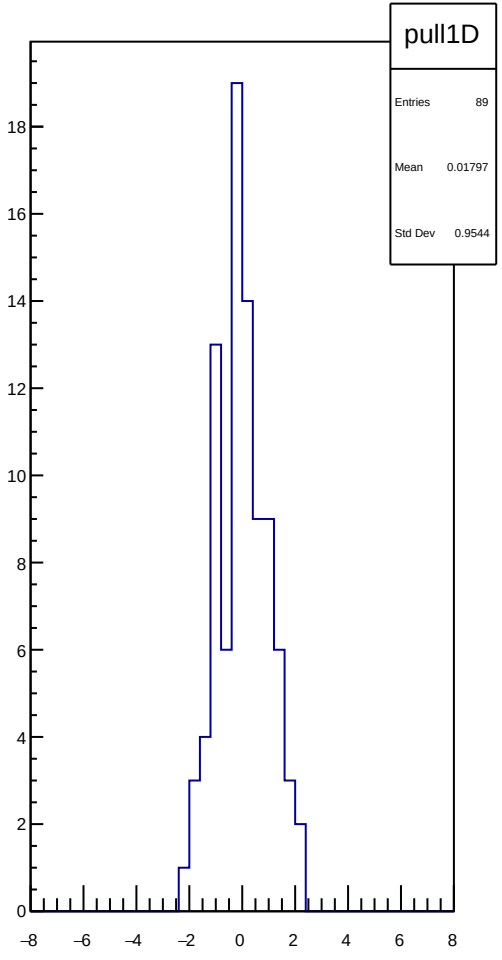

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

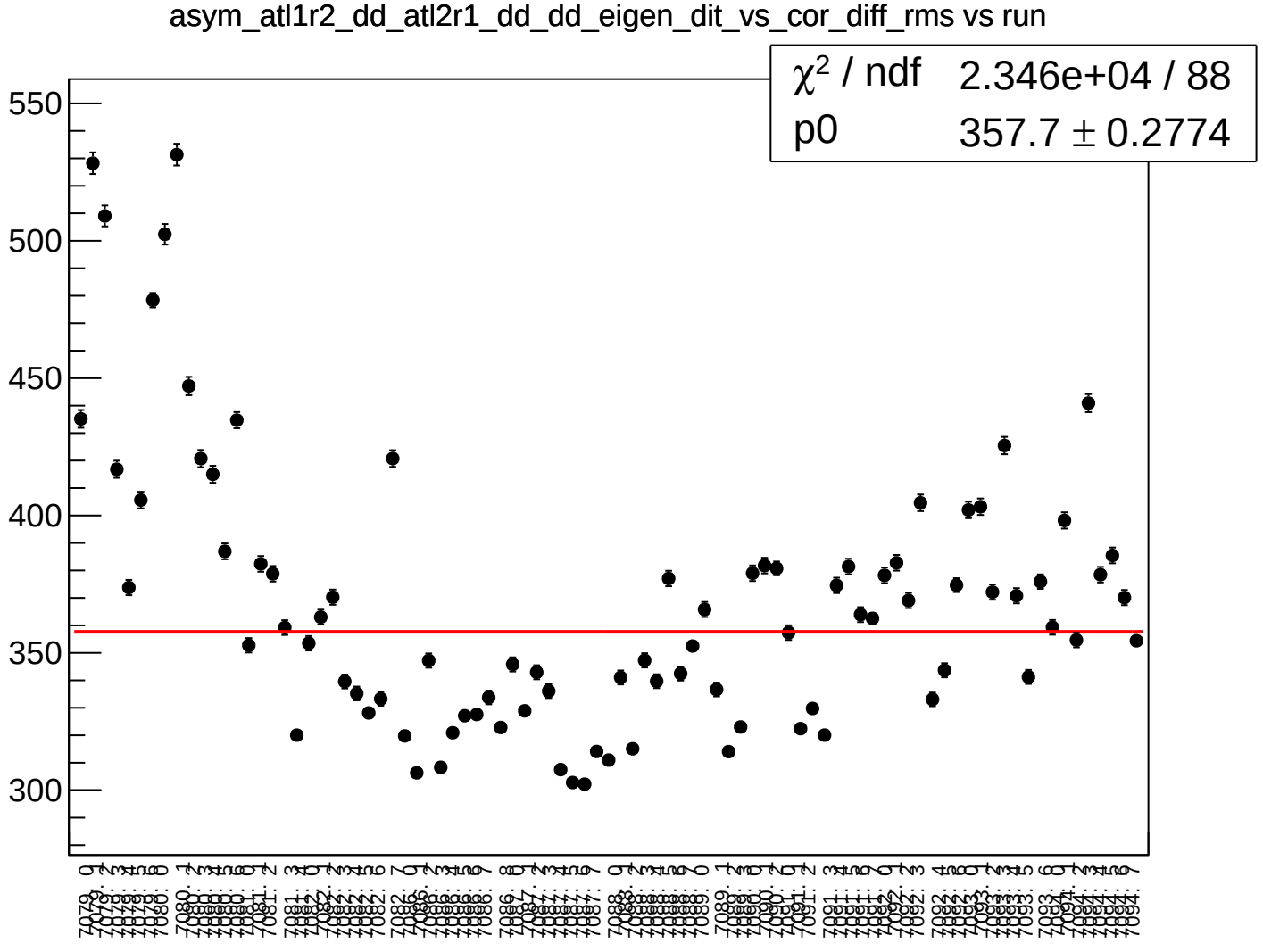

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.67 / 88
p0 2.311e−05 ± 2.101e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 89
Mean −997.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

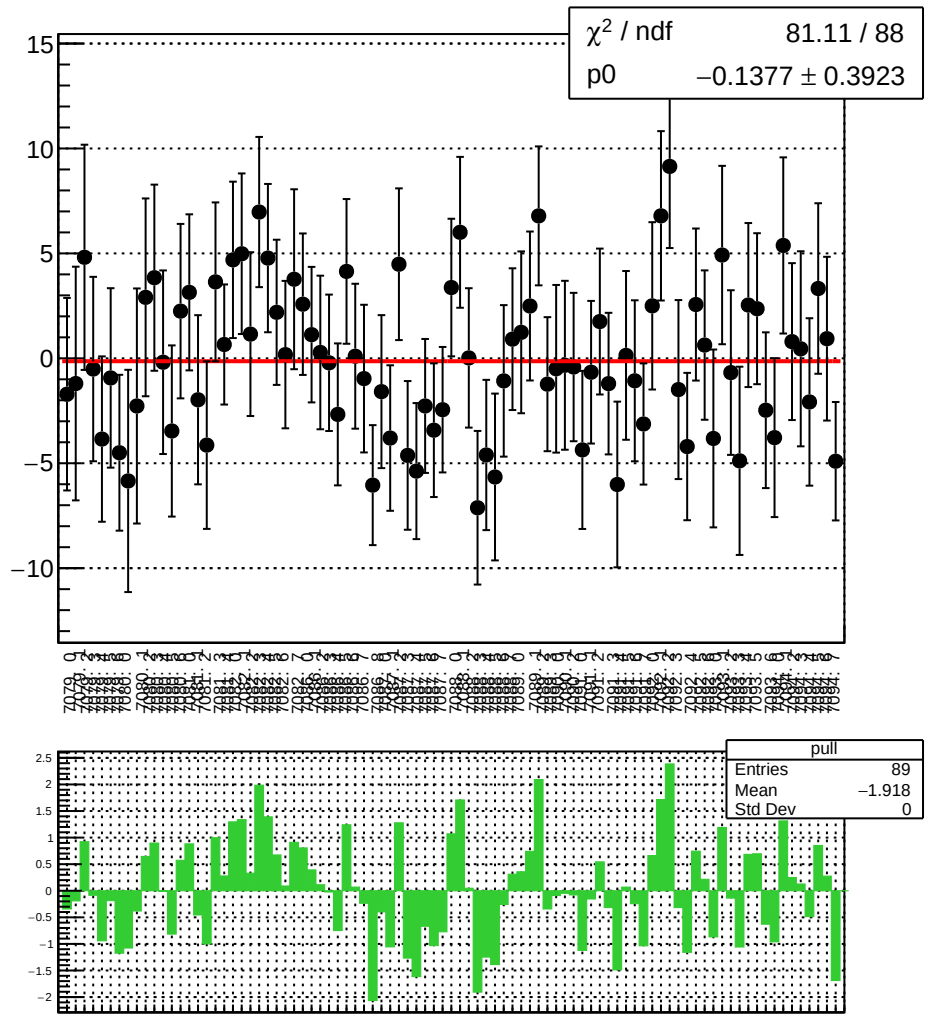

pull1D
Entries 89
Mean −0.001545
Std Dev 0.8973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

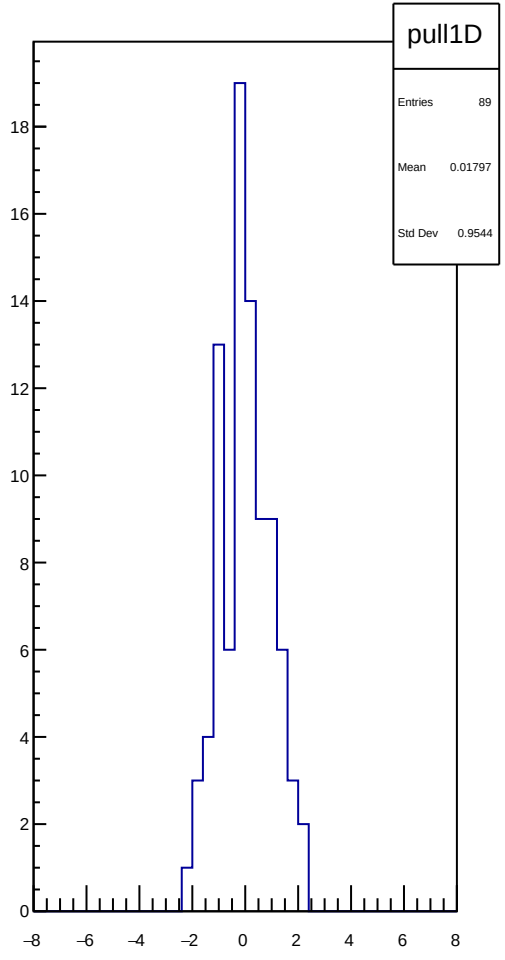

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.331e+05 / 88
p0 0.01852 ± 1.486e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

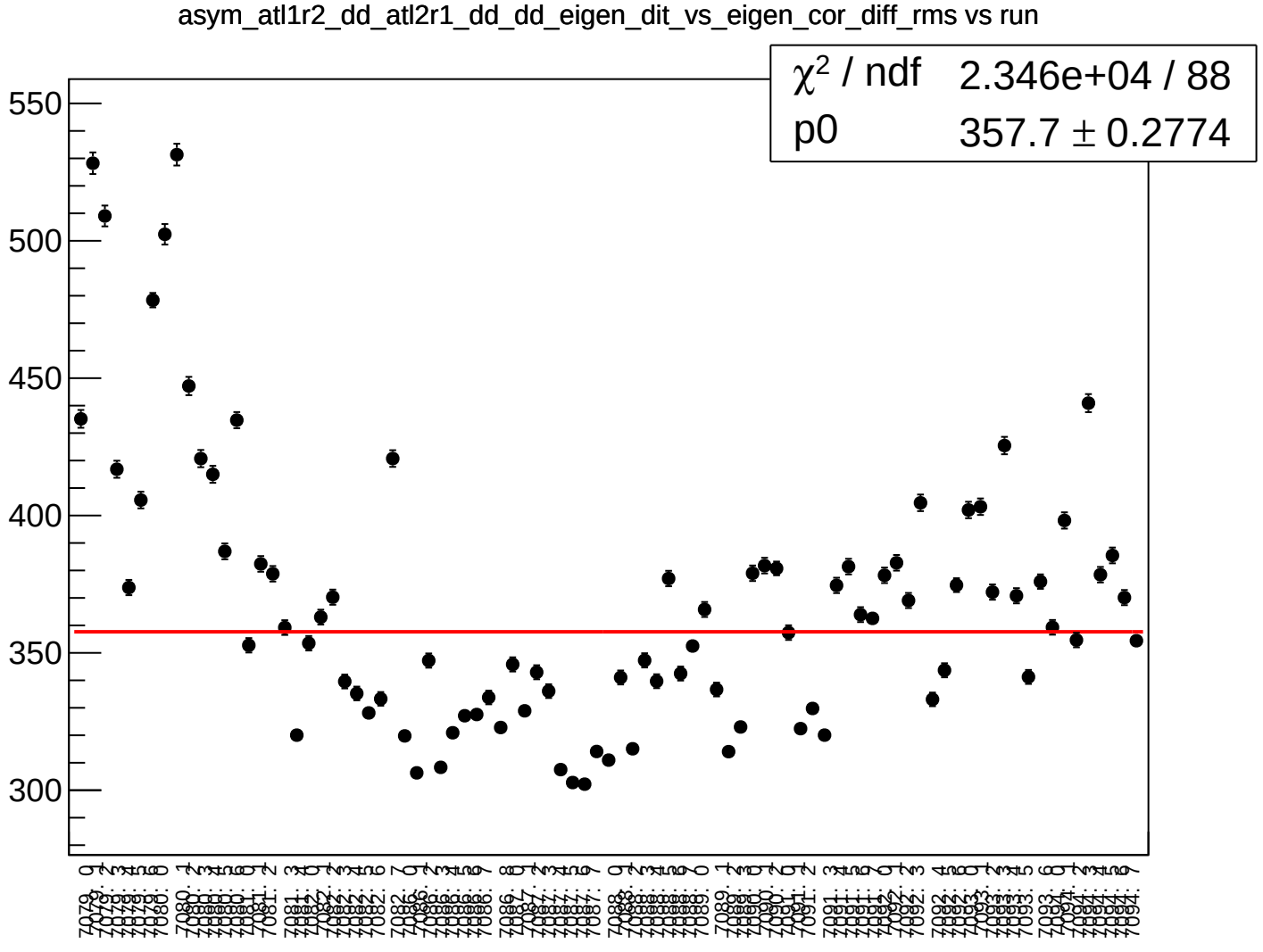

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.918
Std Dev 0

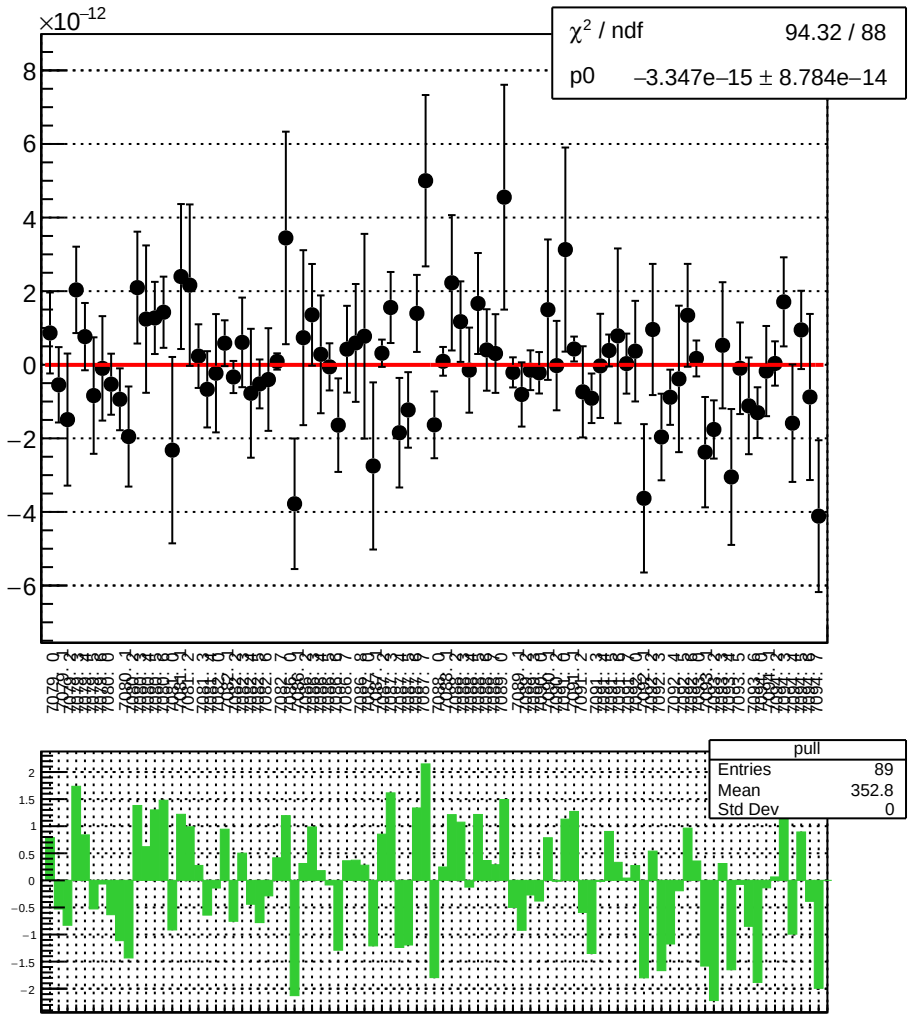

pull1D
Entries 89
Mean 0.01797
Std Dev 0.9544

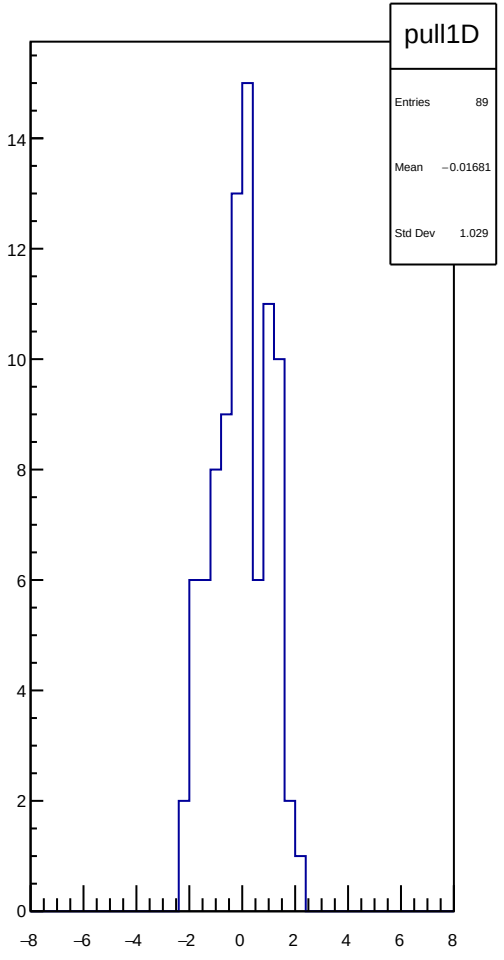

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

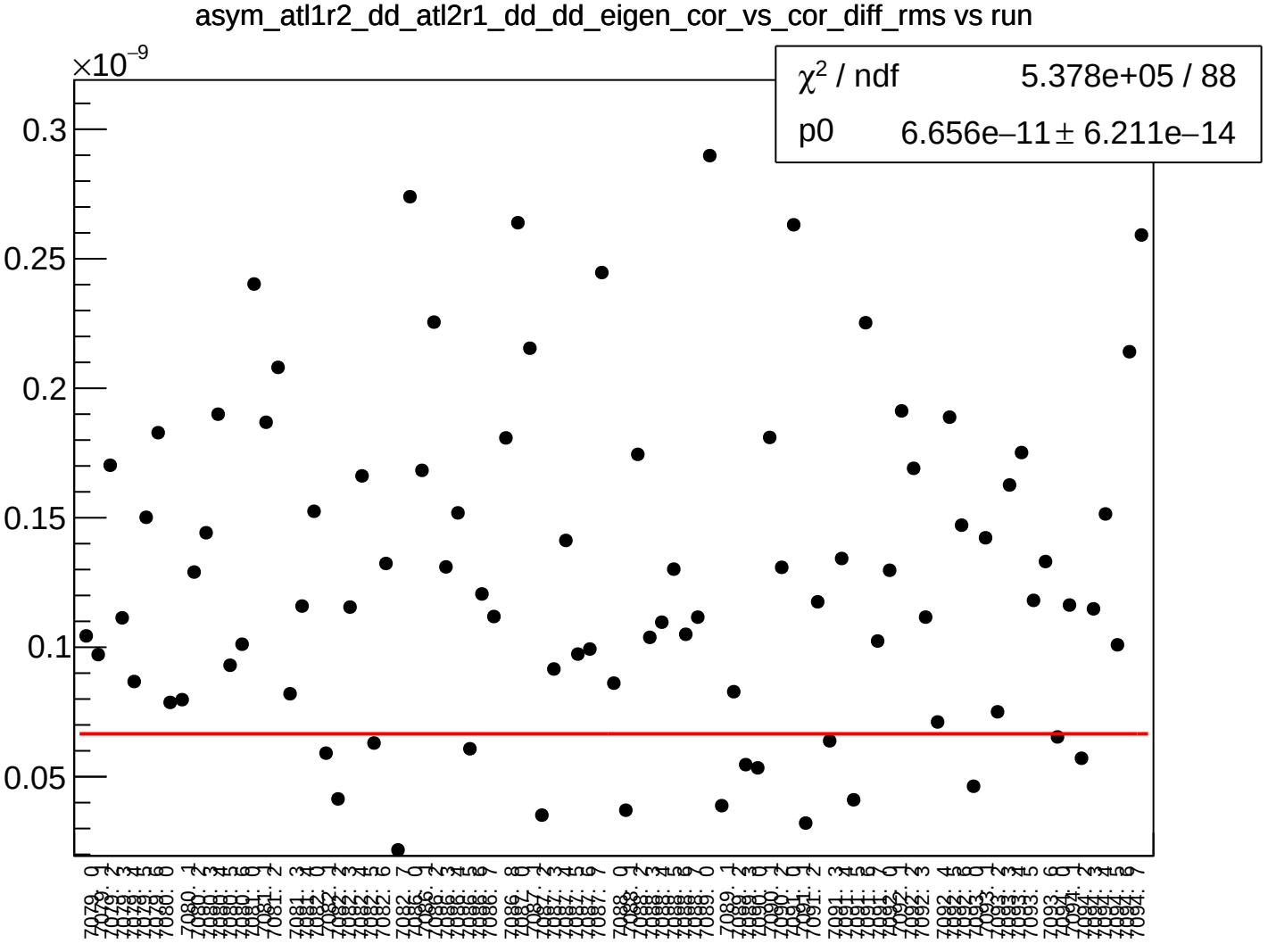

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.11 / 88
p0 −0.1377 ± 0.3923
pull
Entries 89
Mean −1.918
Std Dev 0

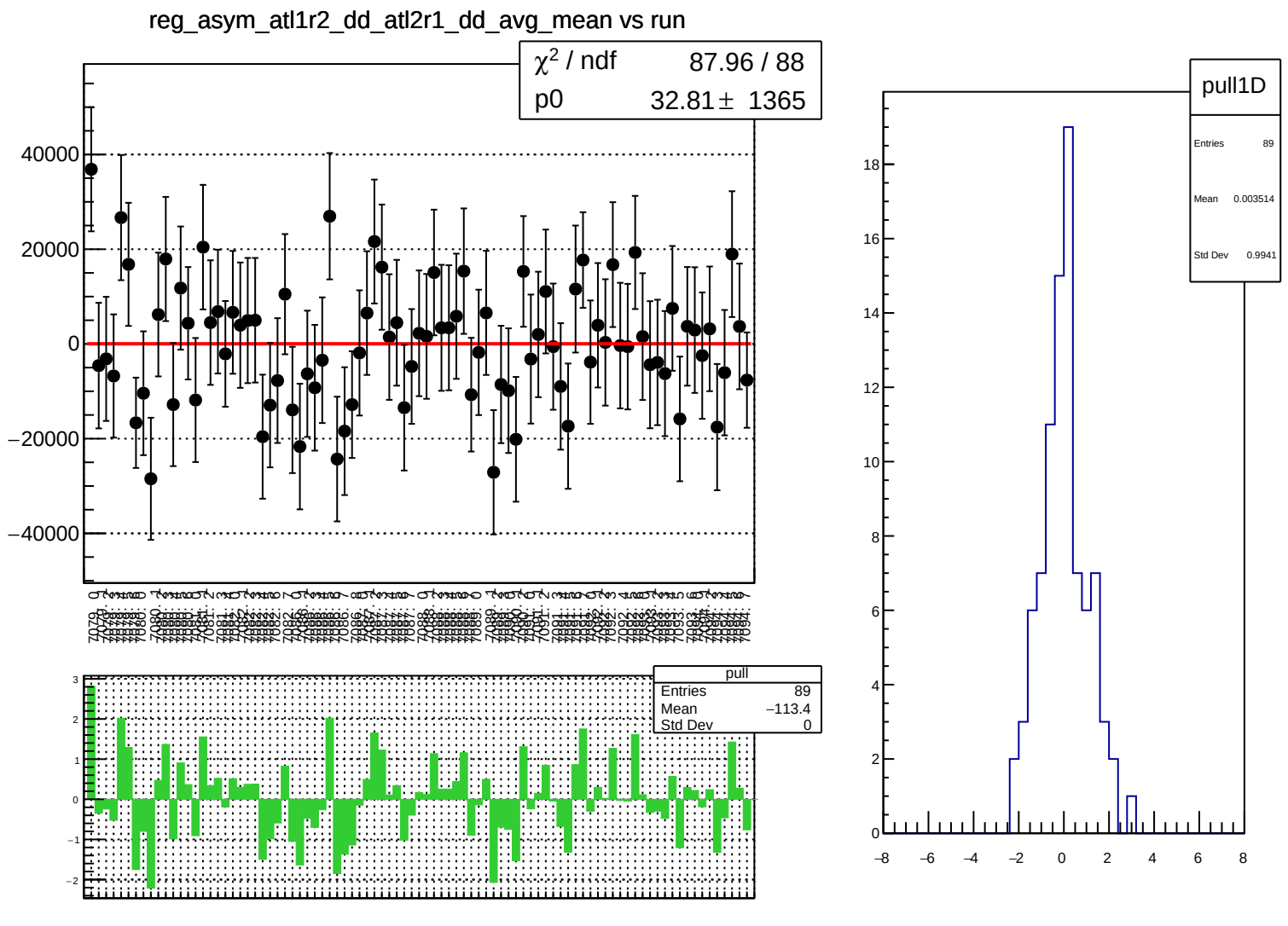

pull1D
Entries 89
Mean 0.01797
Std Dev 0.9544

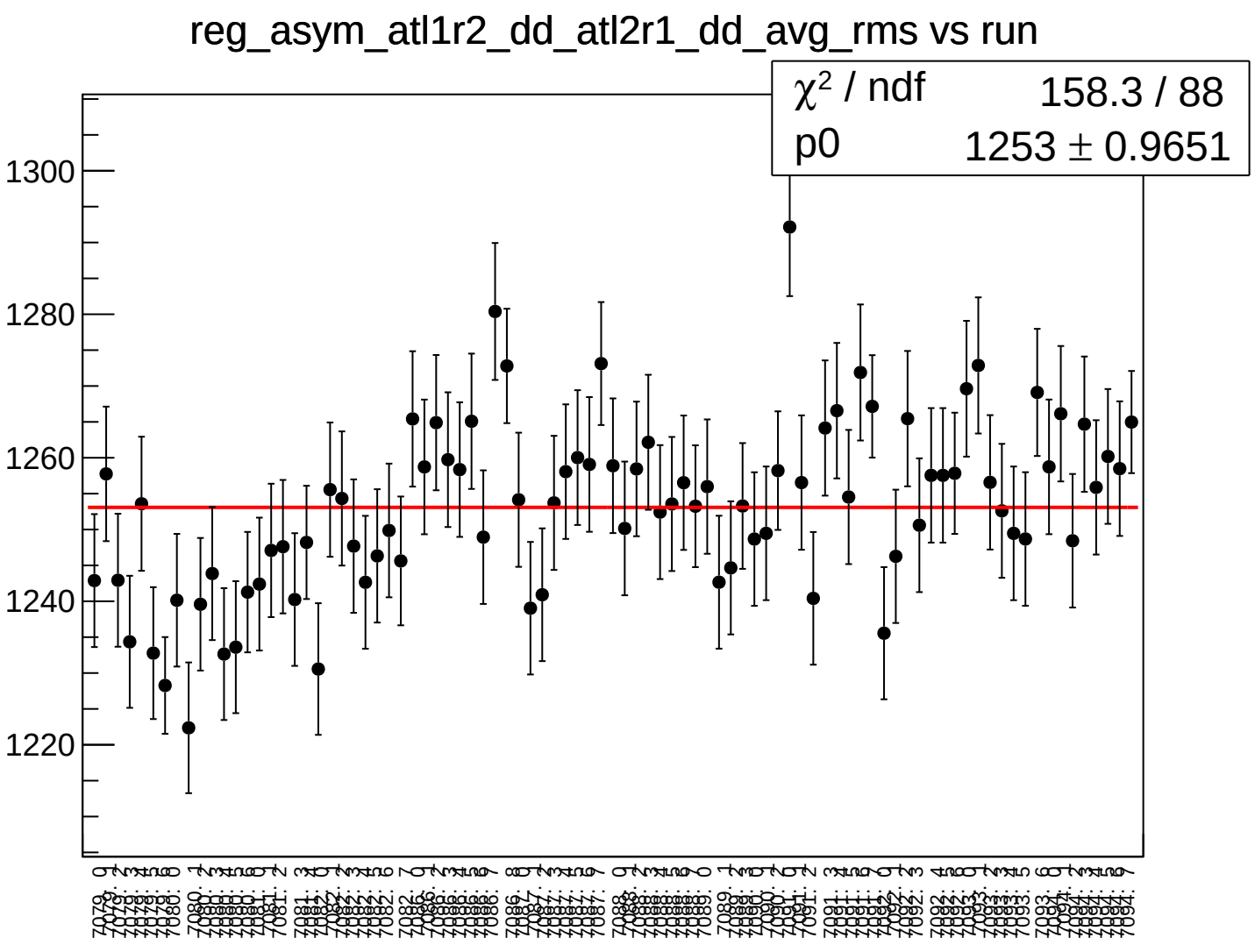

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.346e+04 / 88
p0 357.7 ± 0.2774
550
500
450
400
350
300

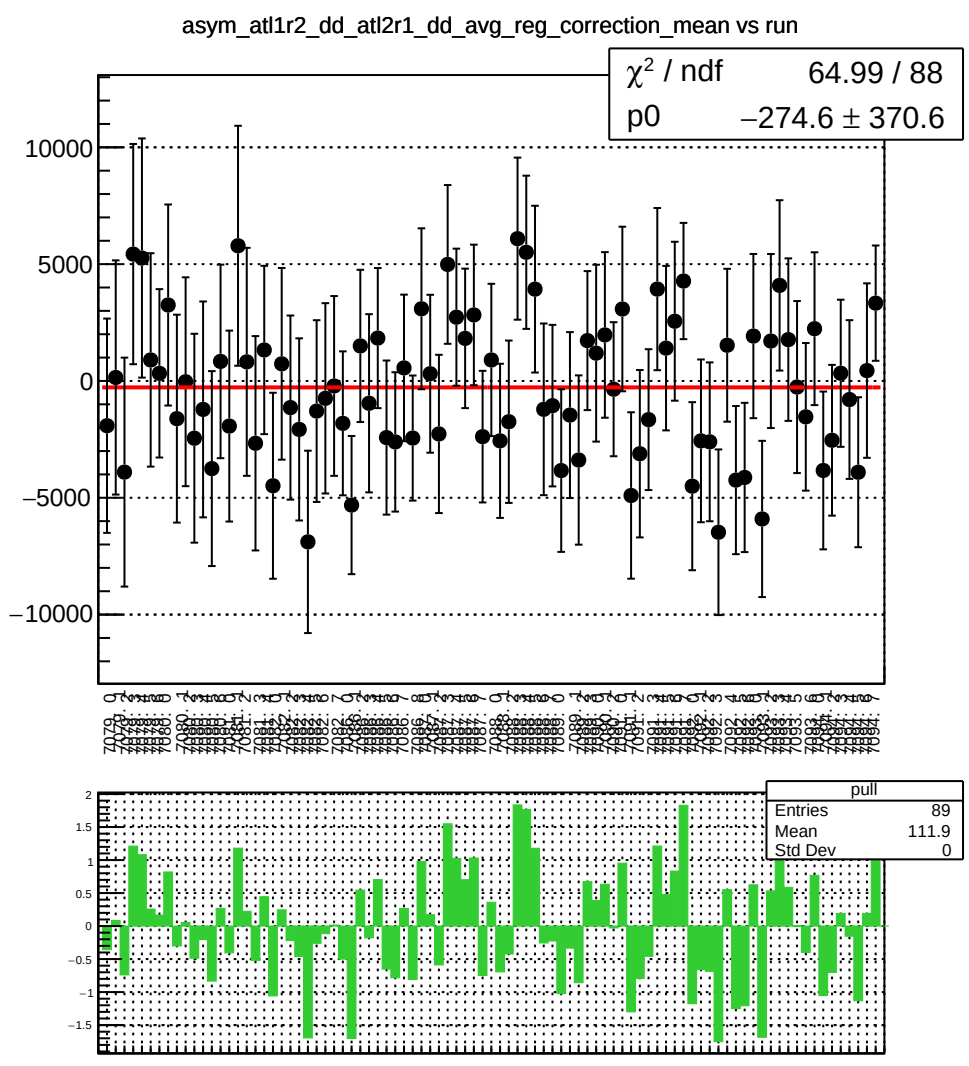

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.32 / 88
p0 −3.347e−15 ± 8.784e−14
pull
Entries 89
Mean 352.8
Std Dev 0

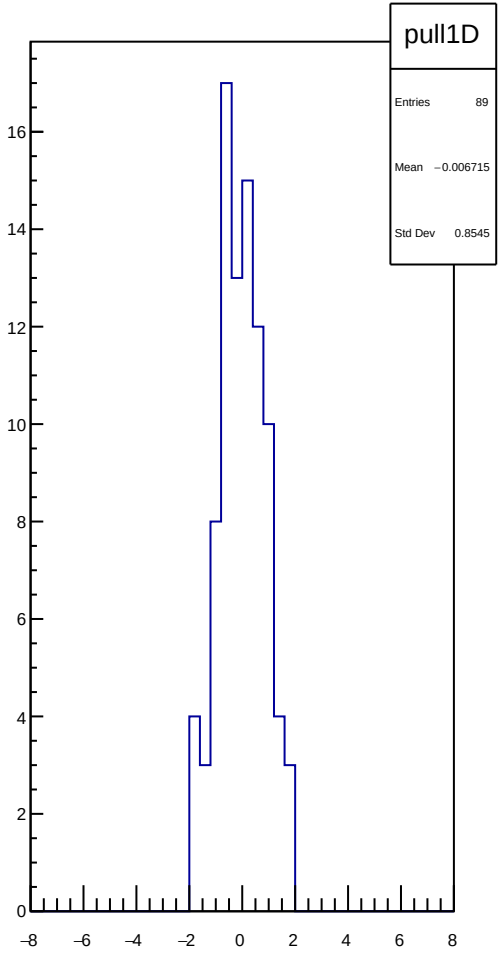

pull1D
Entries 89
Mean −0.01681
Std Dev 1.029


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.378e+05 / 88
p0 6.656e−11 ± 6.211e−14
0.3
0.25
0.2
0.15
0.1
0.05


reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 87.96 / 88
p0 32.81 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −113.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.003514
Std Dev 0.9941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 158.3 / 88
p0 1253 ± 0.9651
1300
1280
1260
1240
1220


asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 64.99 / 88
p0 −274.6 ± 370.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 111.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 89
Mean −0.006715
Std Dev 0.8545
16
14
12
10
8
6
4
2
0
−8
−6
−4
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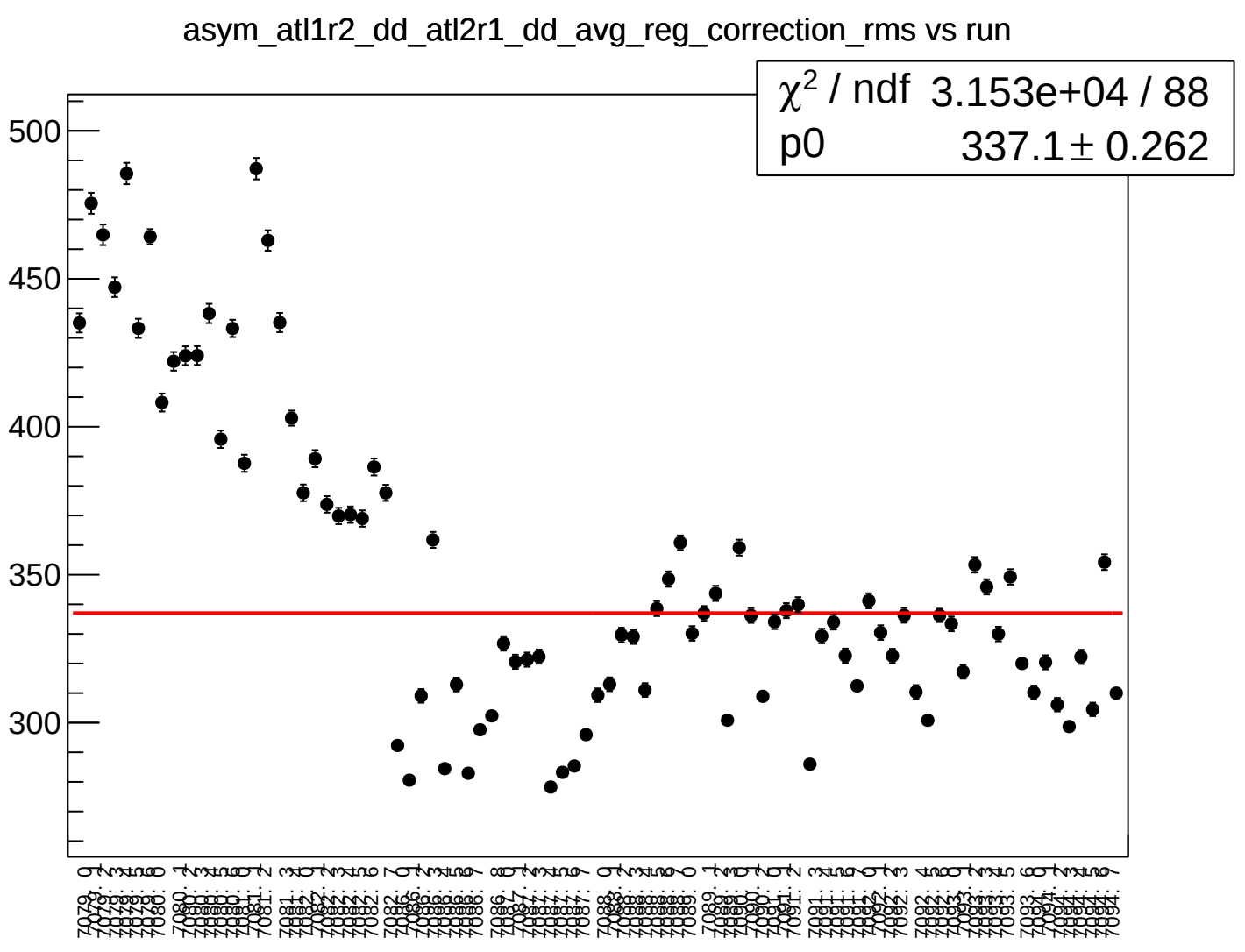
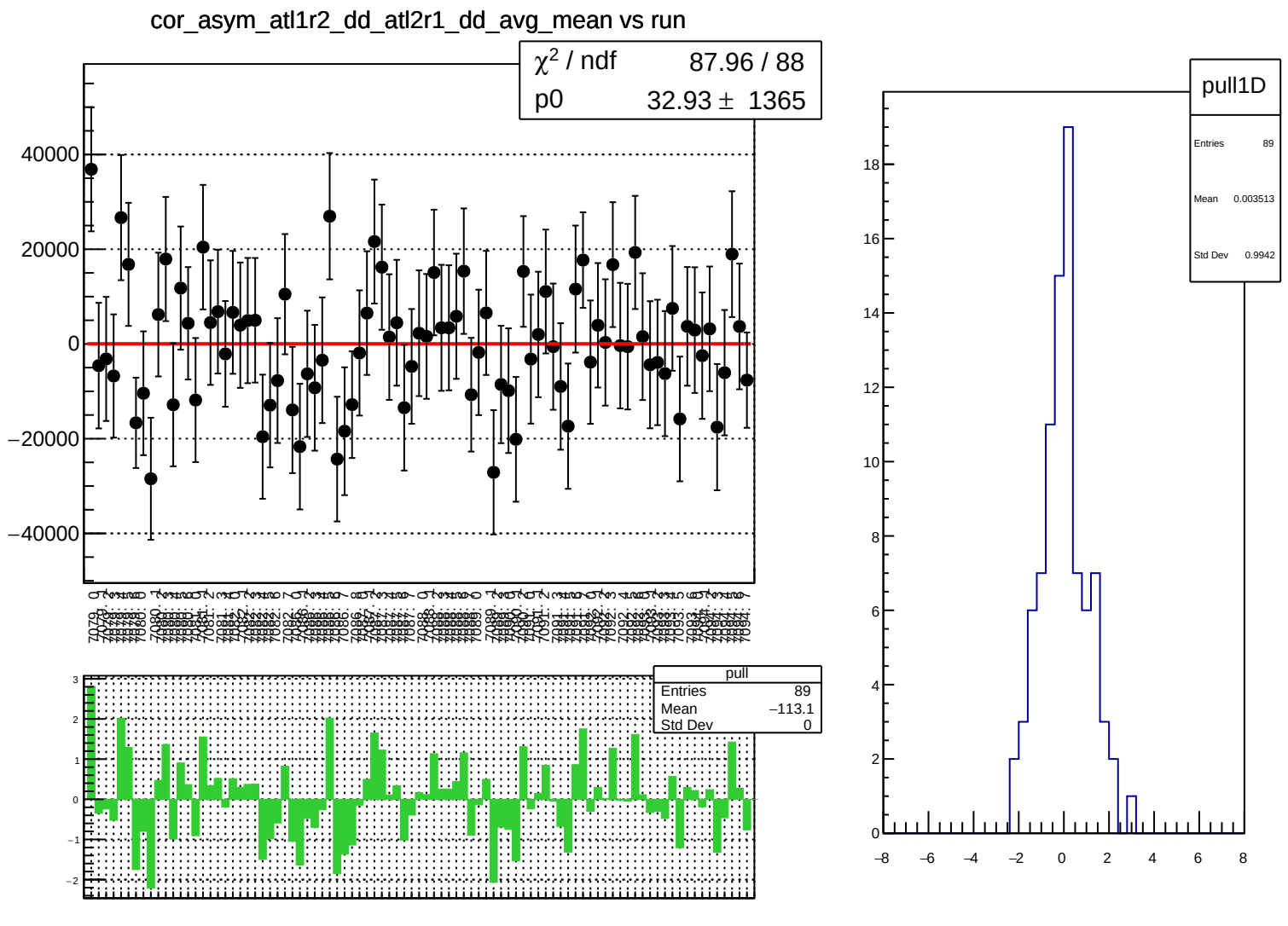
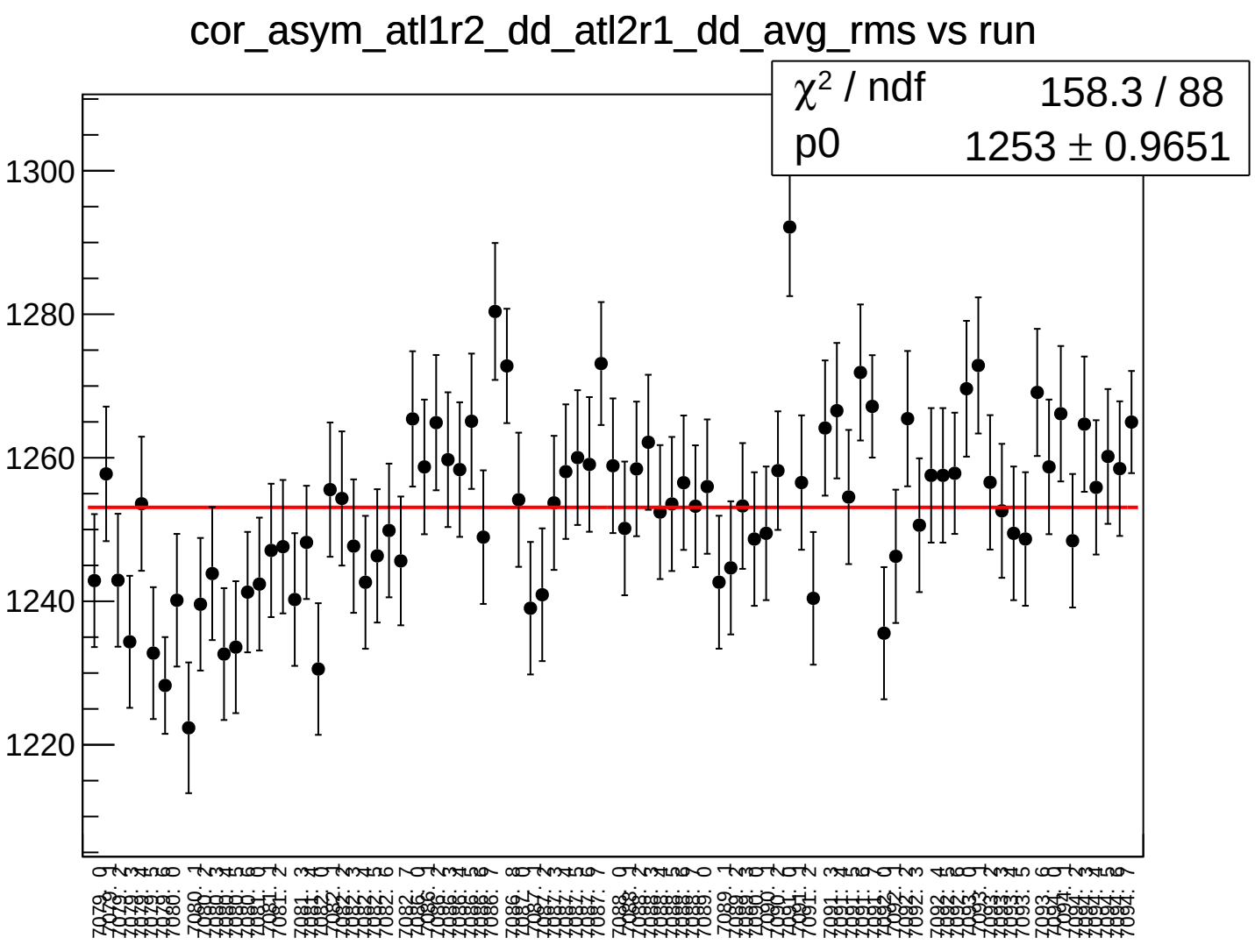
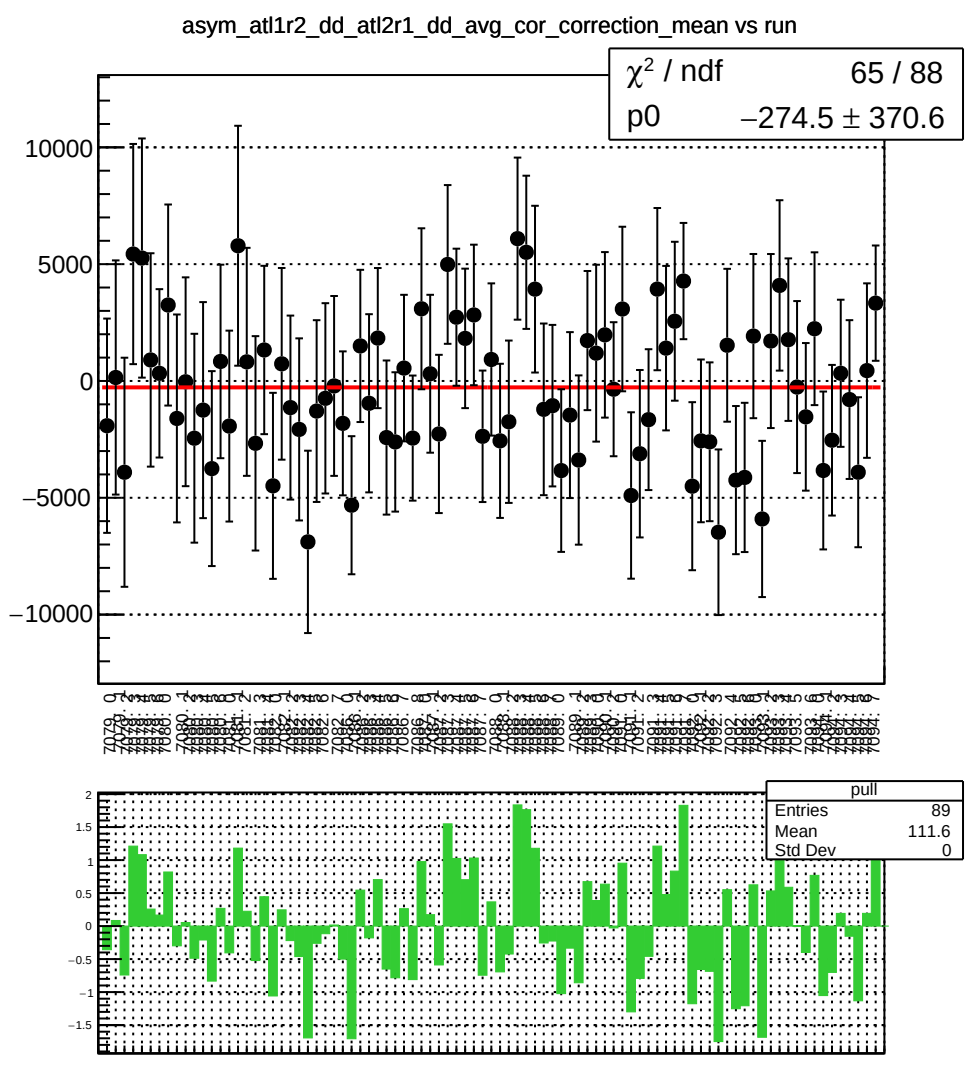
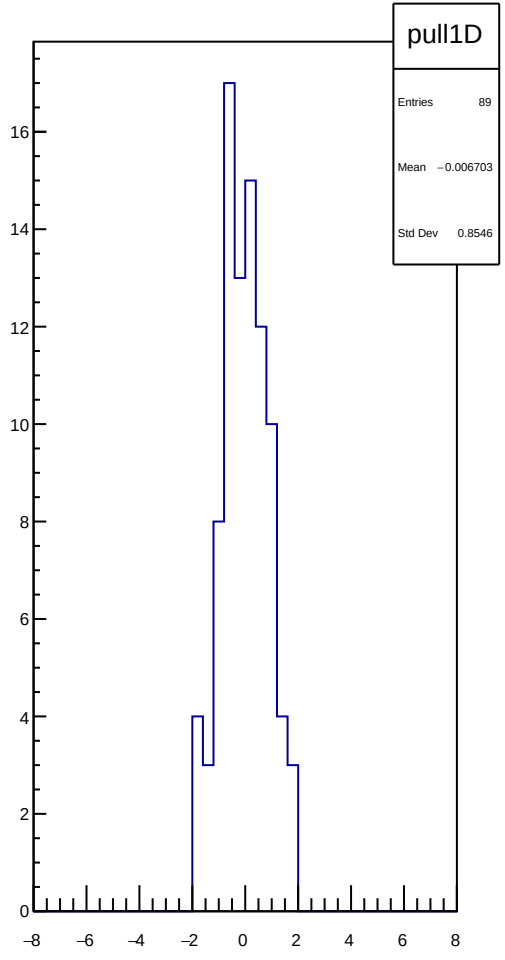
0
2
4
6
8

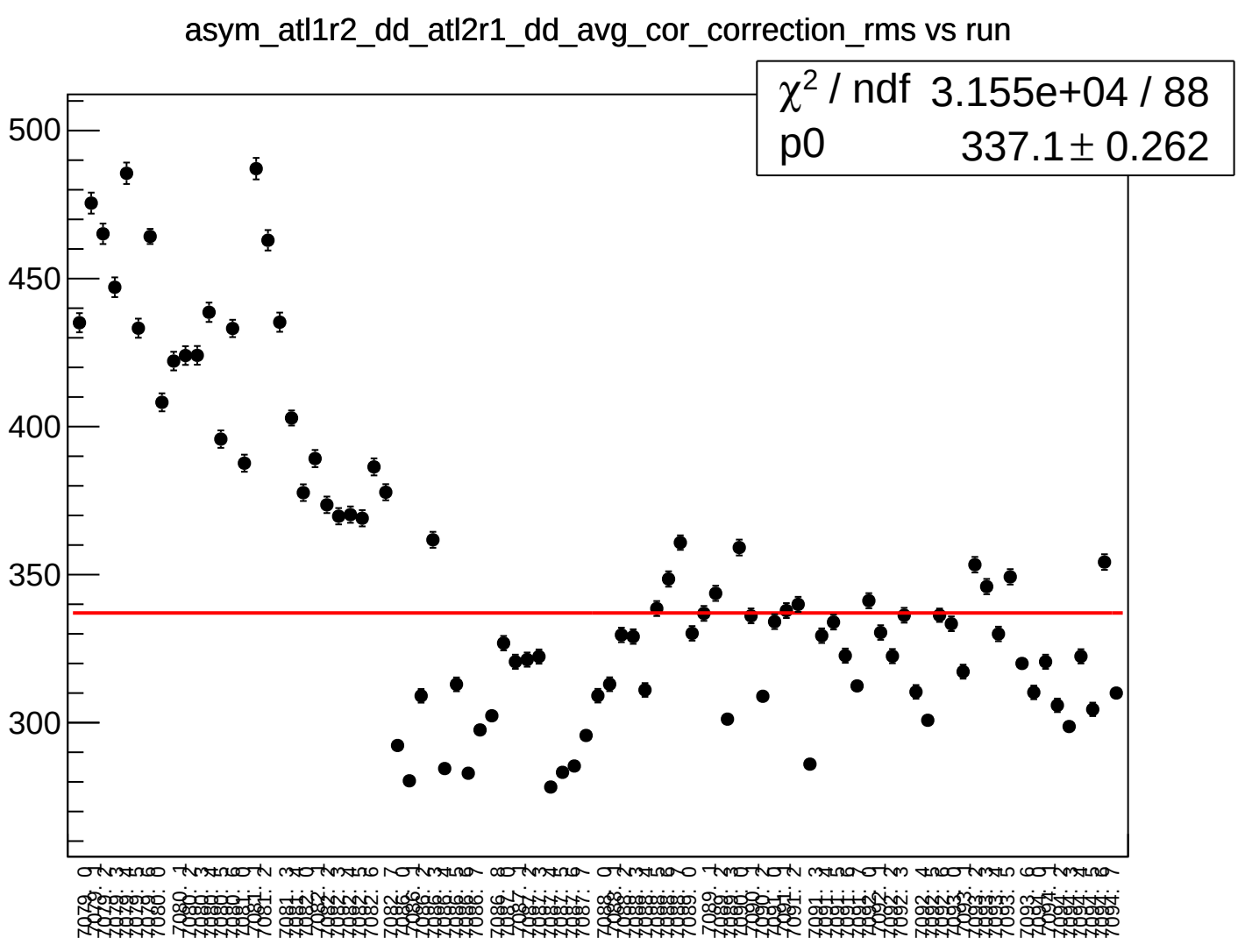

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 3.153e+04 / 88
p0 337.1 ± 0.262
500
450
400
350
300

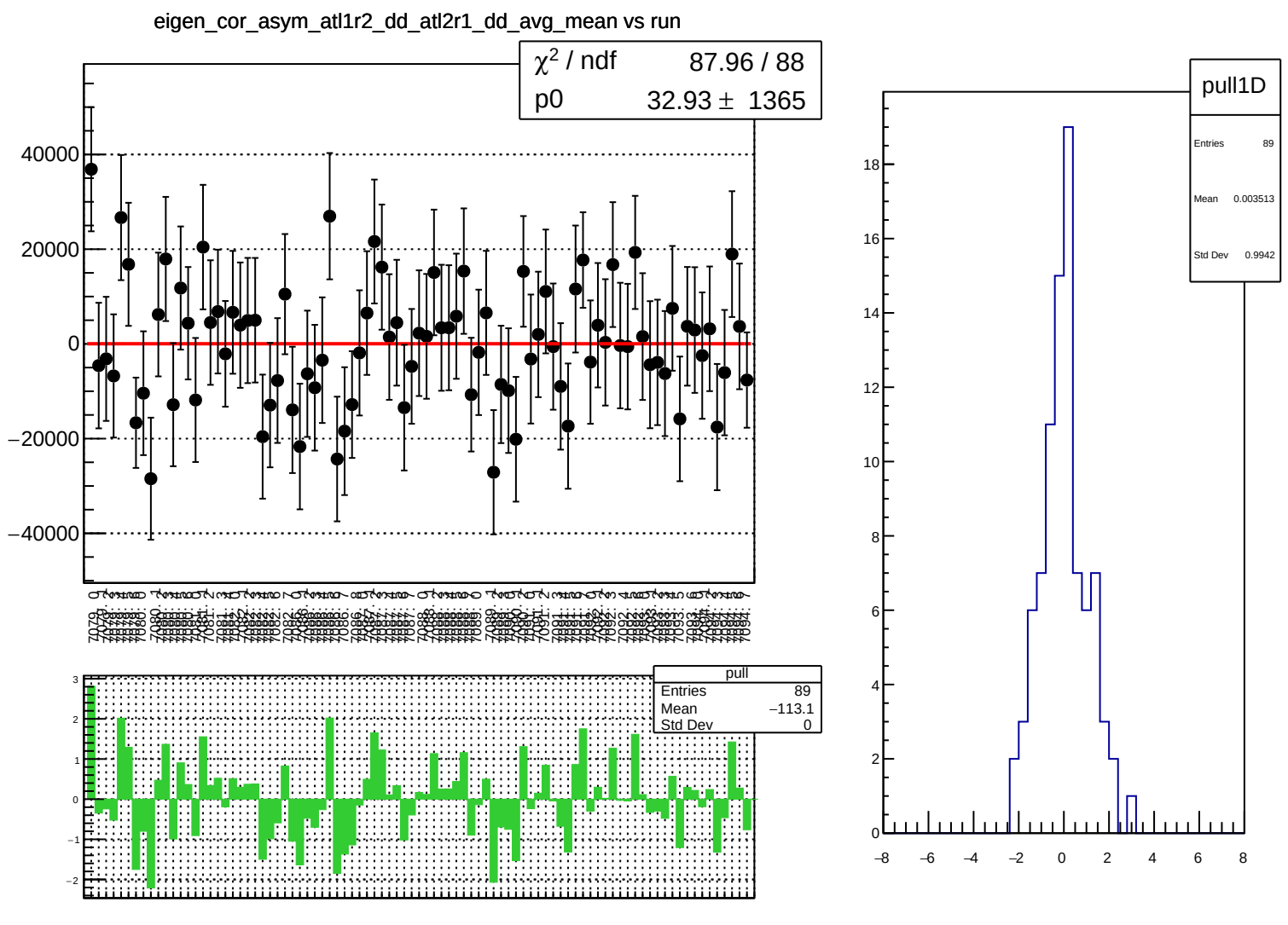

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 87.96 / 88
p0 32.93 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −113.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.003513
Std Dev 0.9942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

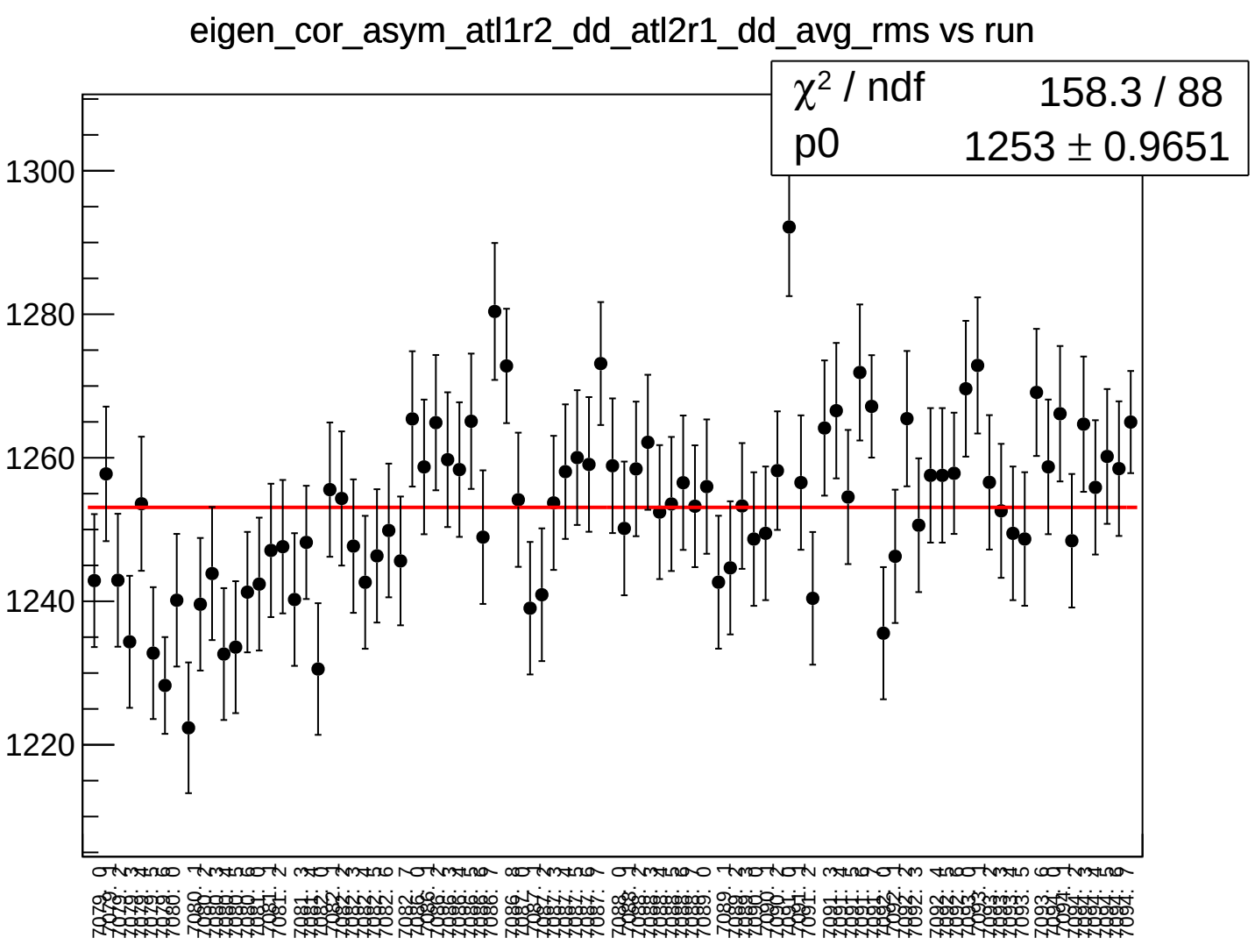

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 158.3 / 88
p0 1253 ± 0.9651
1300
1280
1260
1240
1220

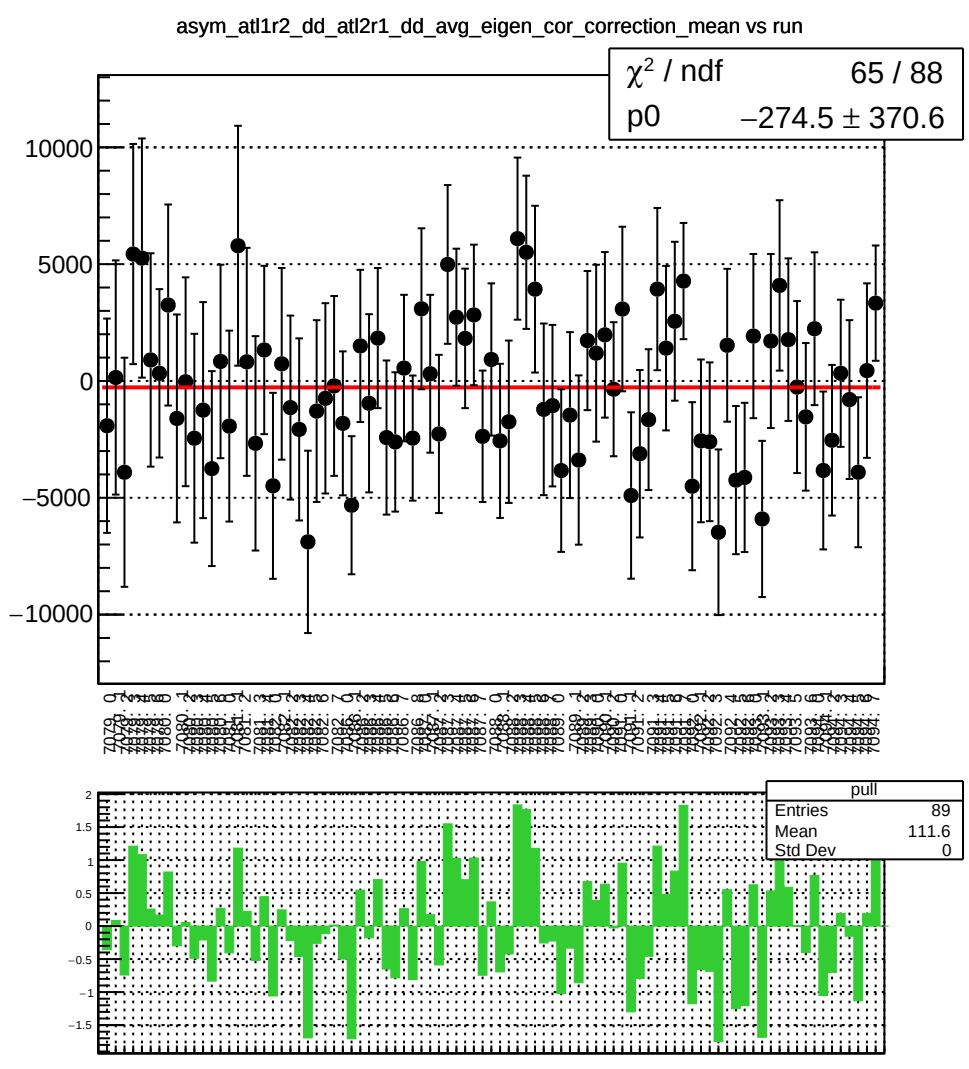

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 65 / 88
p0 −274.5 ± 370.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 111.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

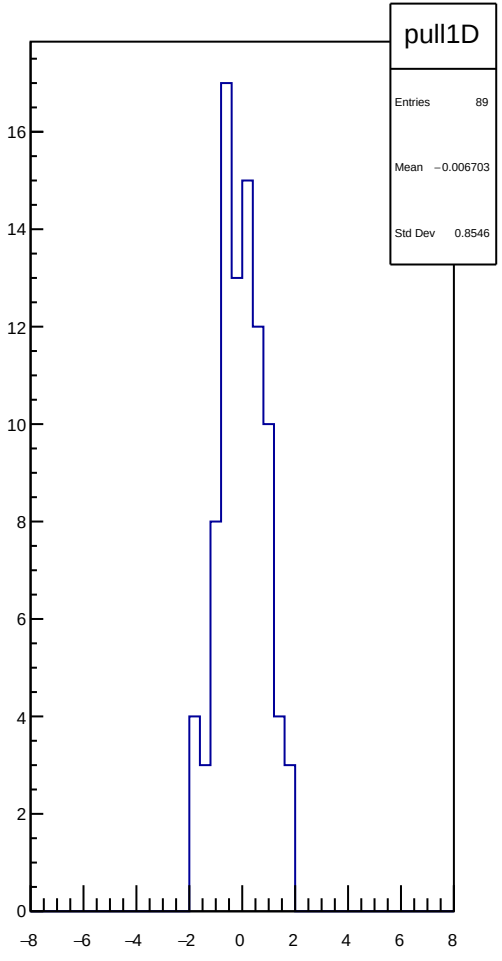

pull1D
Entries 89
Mean −0.006703
Std Dev 0.8546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

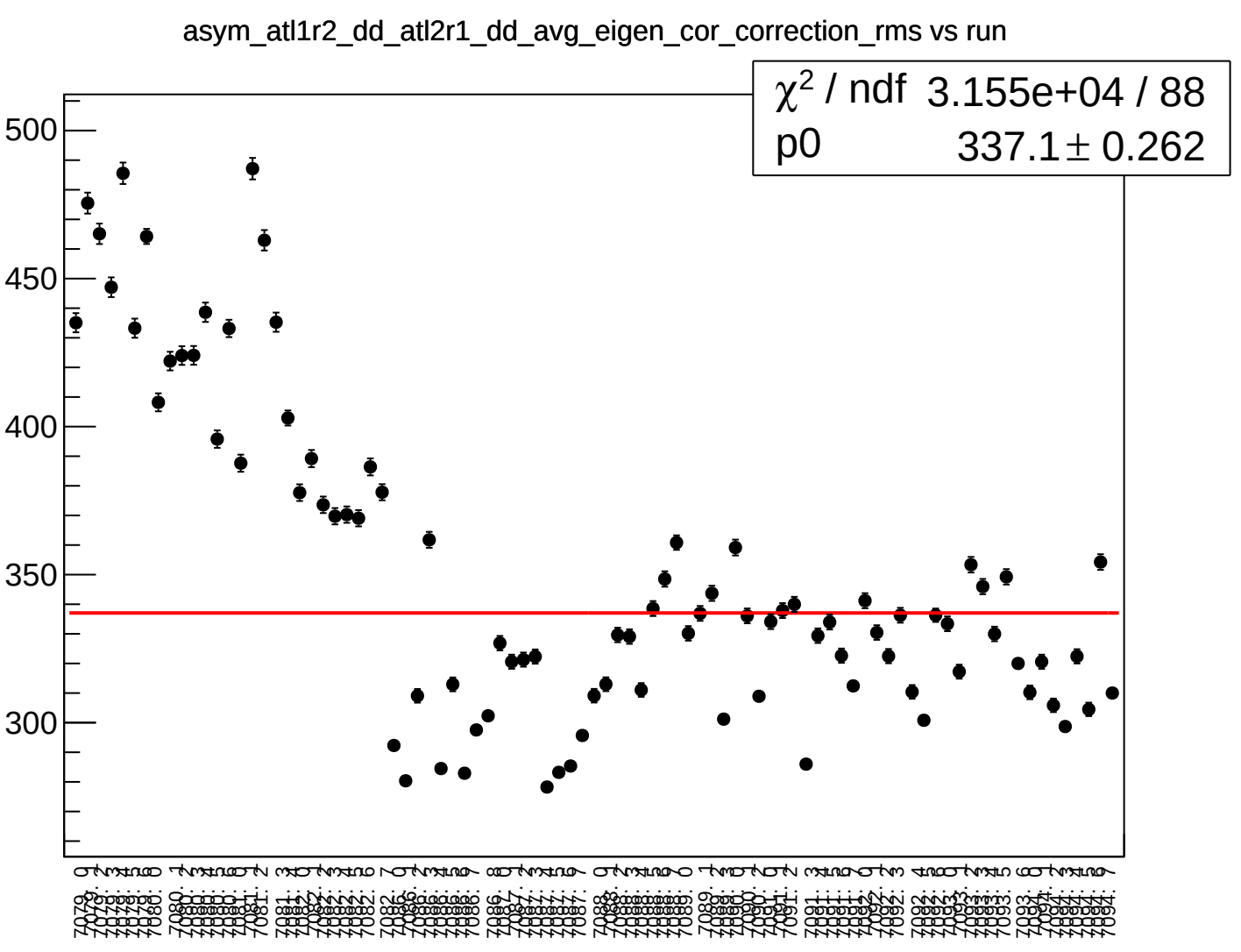

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 3.155e+04 / 88
p0 337.1 ± 0.262
500
450
400
350
300

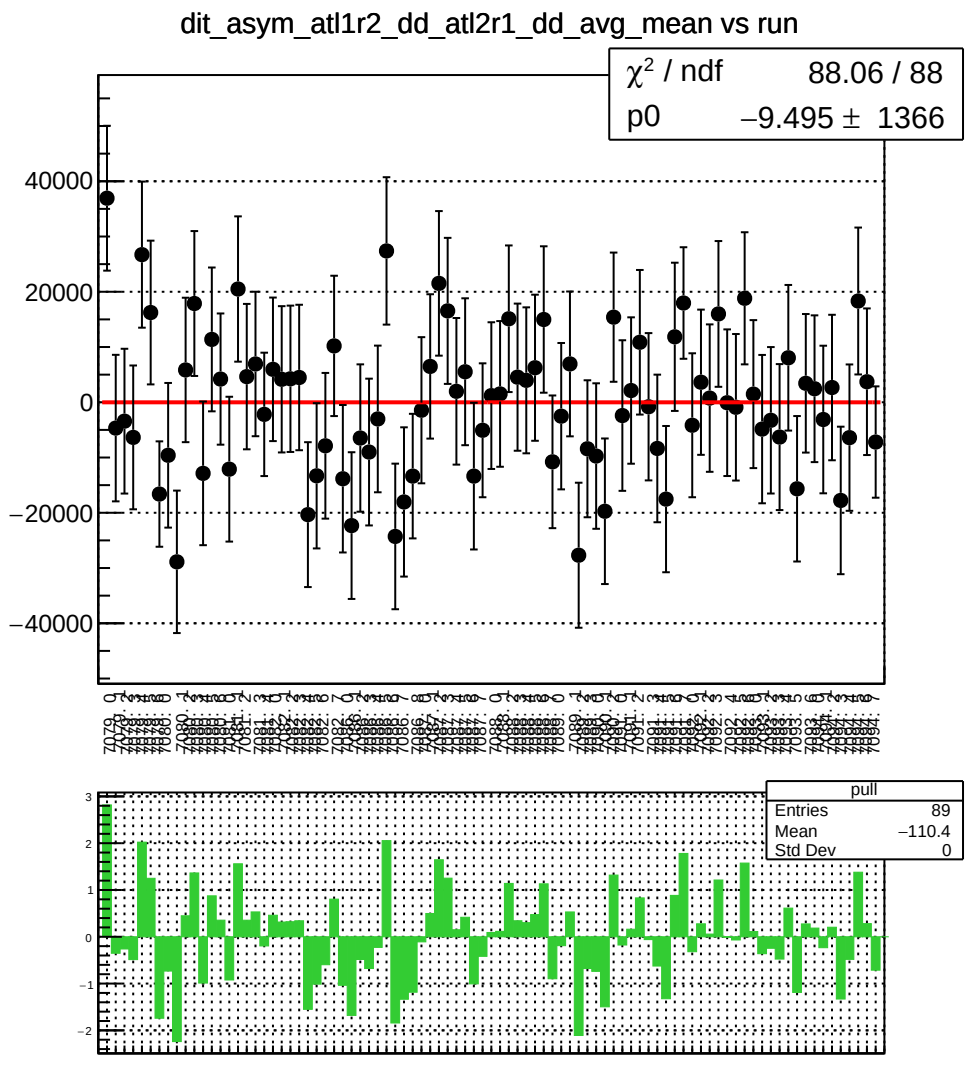

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 87.96 / 88
p0 32.93 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −113.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.003513
Std Dev 0.9942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

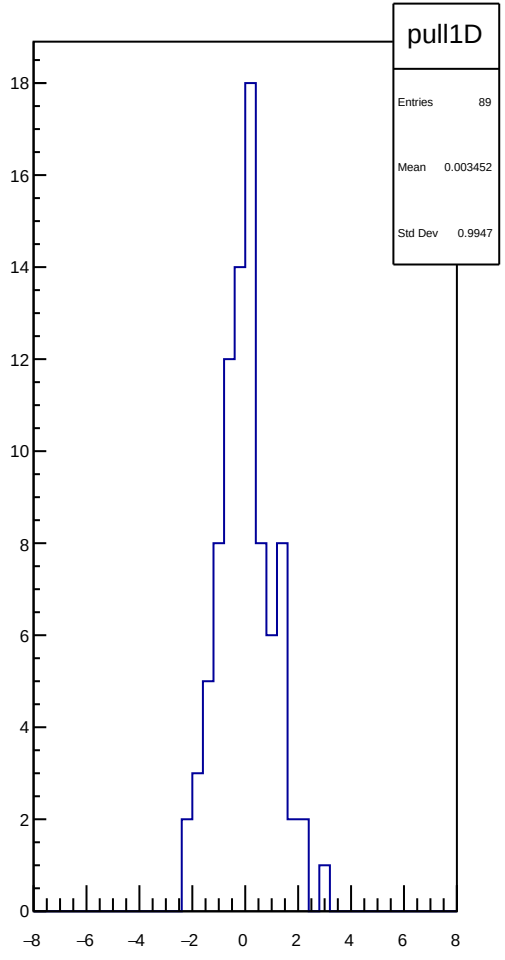

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 158.3 / 88
p0 1253 ± 0.9651
1300
1280
1260
1240
1220

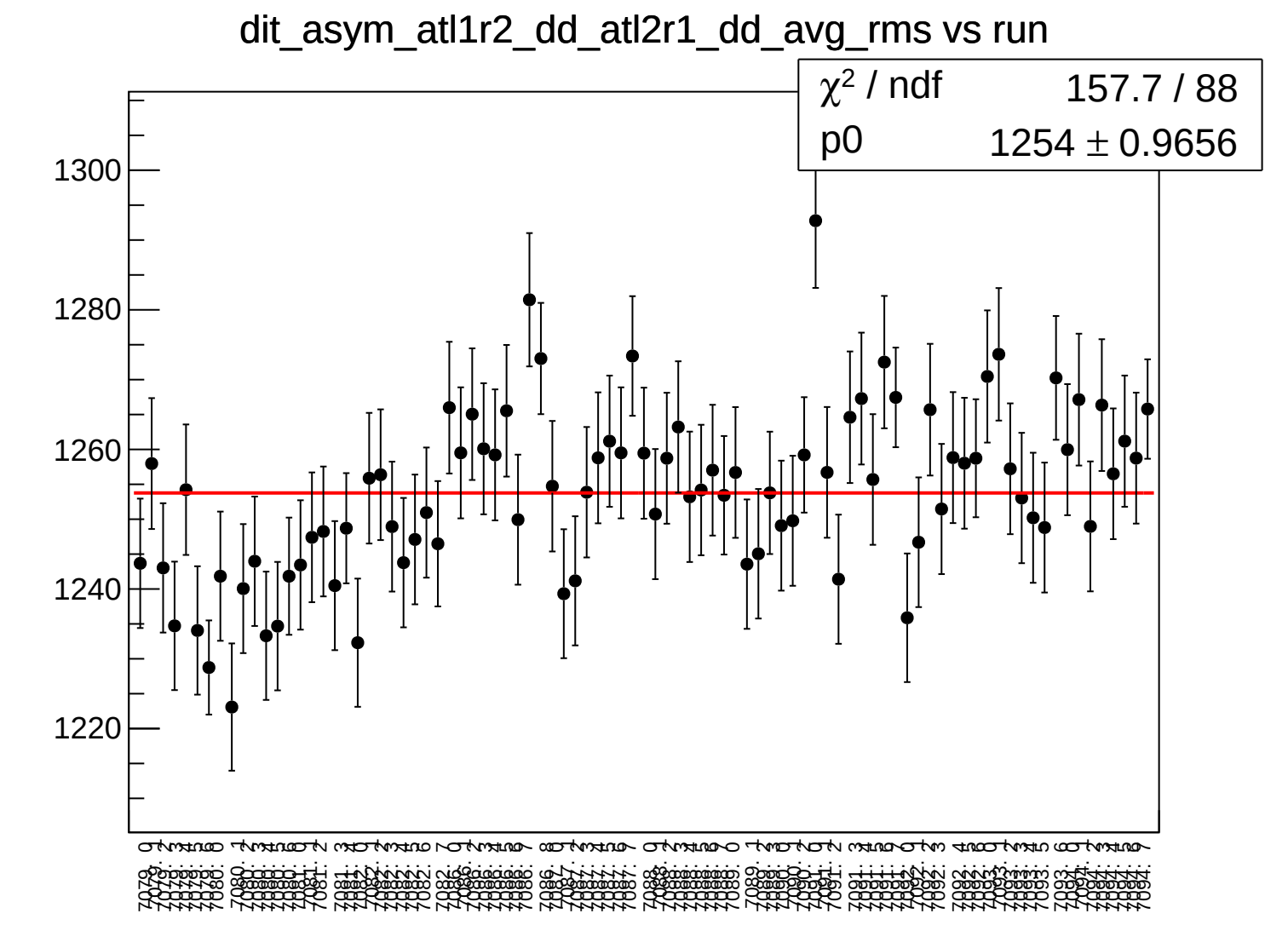

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 65 / 88
p0 −274.5 ± 370.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 111.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

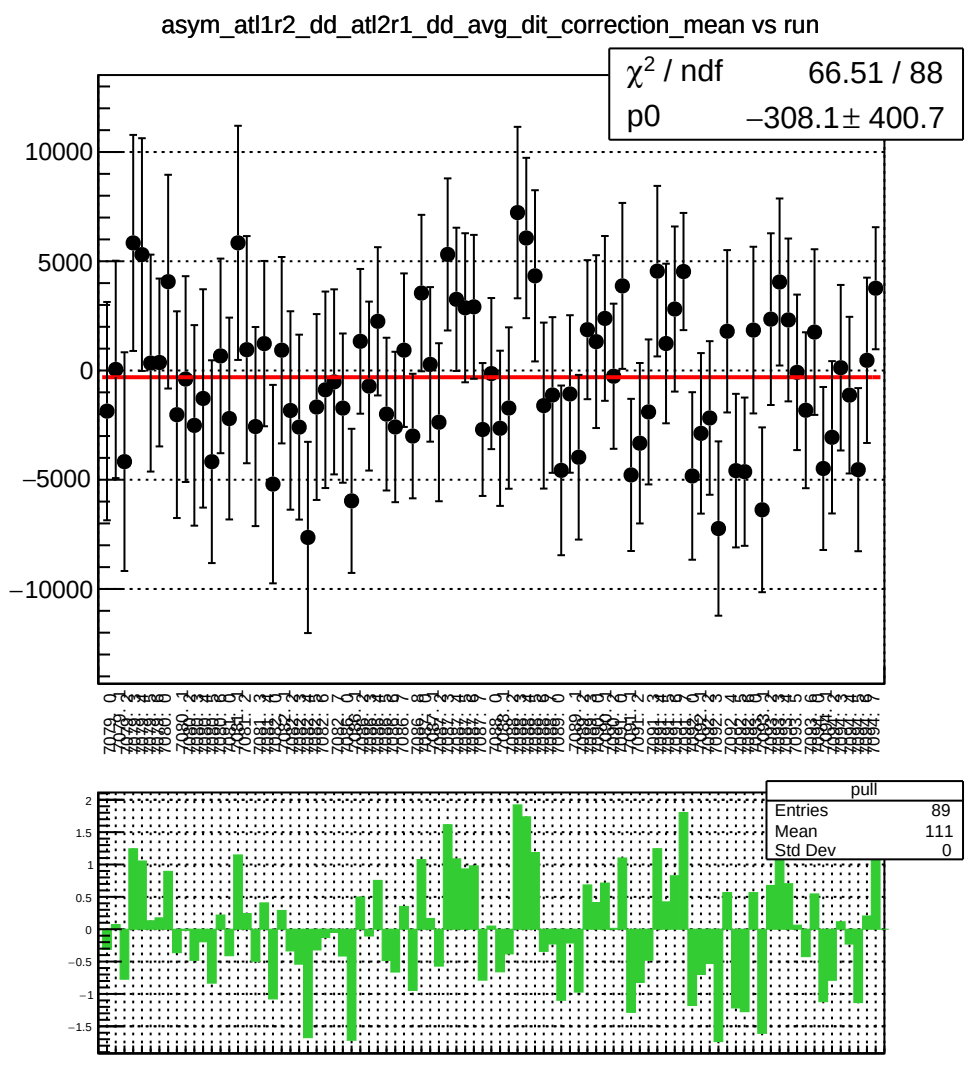

pull1D
Entries 89
Mean −0.006703
Std Dev 0.8546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

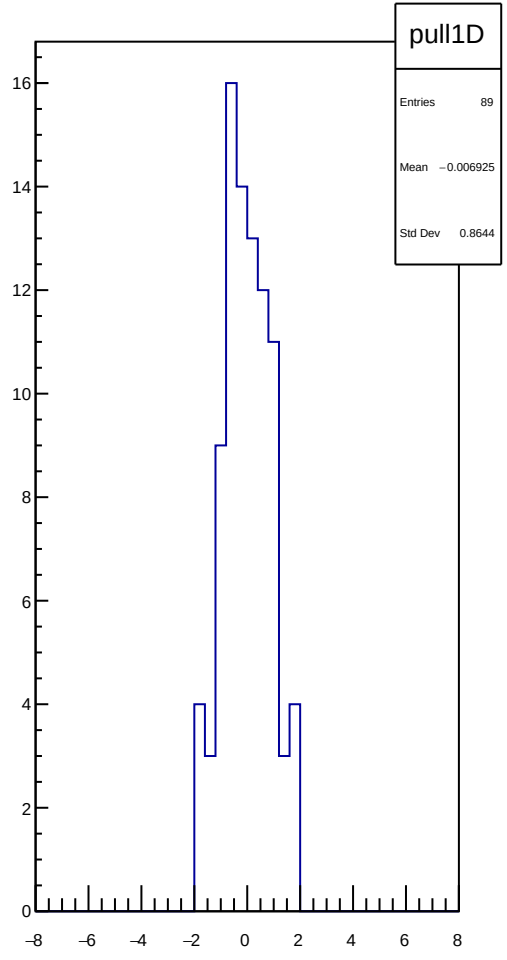

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.155e+04 / 88
p0 337.1 ± 0.262
500
450
400
350
300

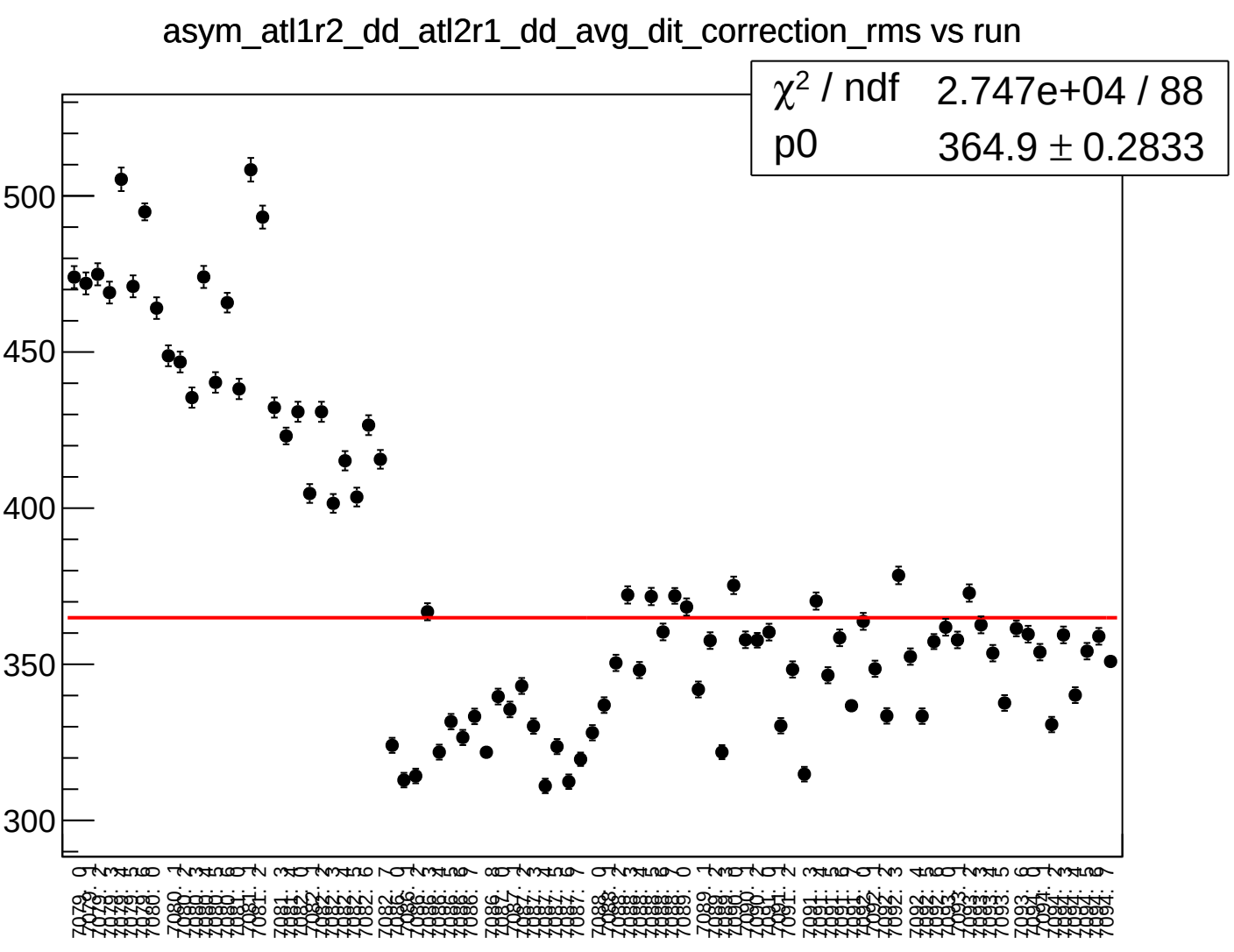

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.06 / 88
p0 −9.495 ± 1366
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −110.4
Std Dev 0
3
2
1
0
−1
−2

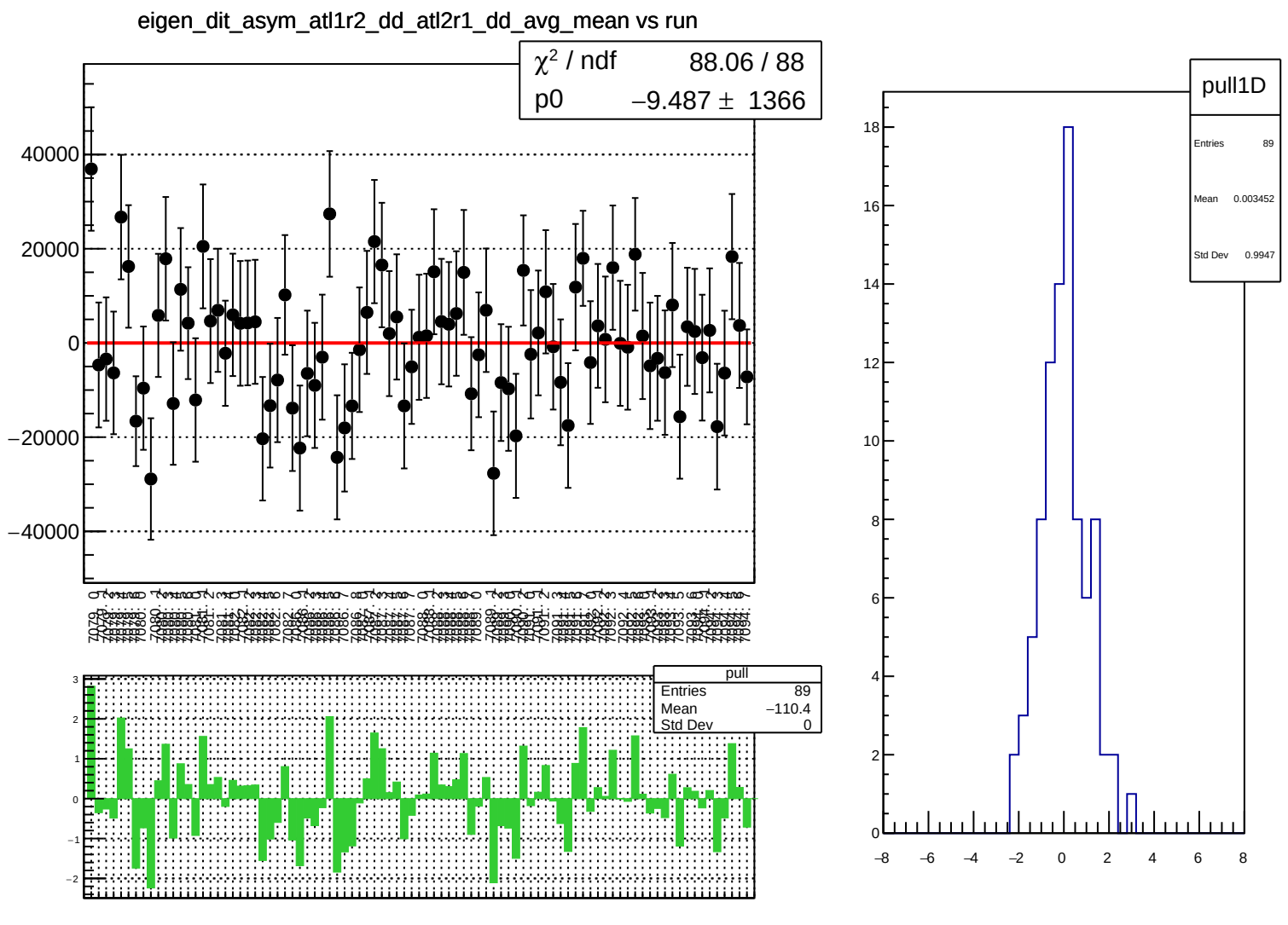

pull1D
Entries 89
Mean 0.003452
Std Dev 0.9947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

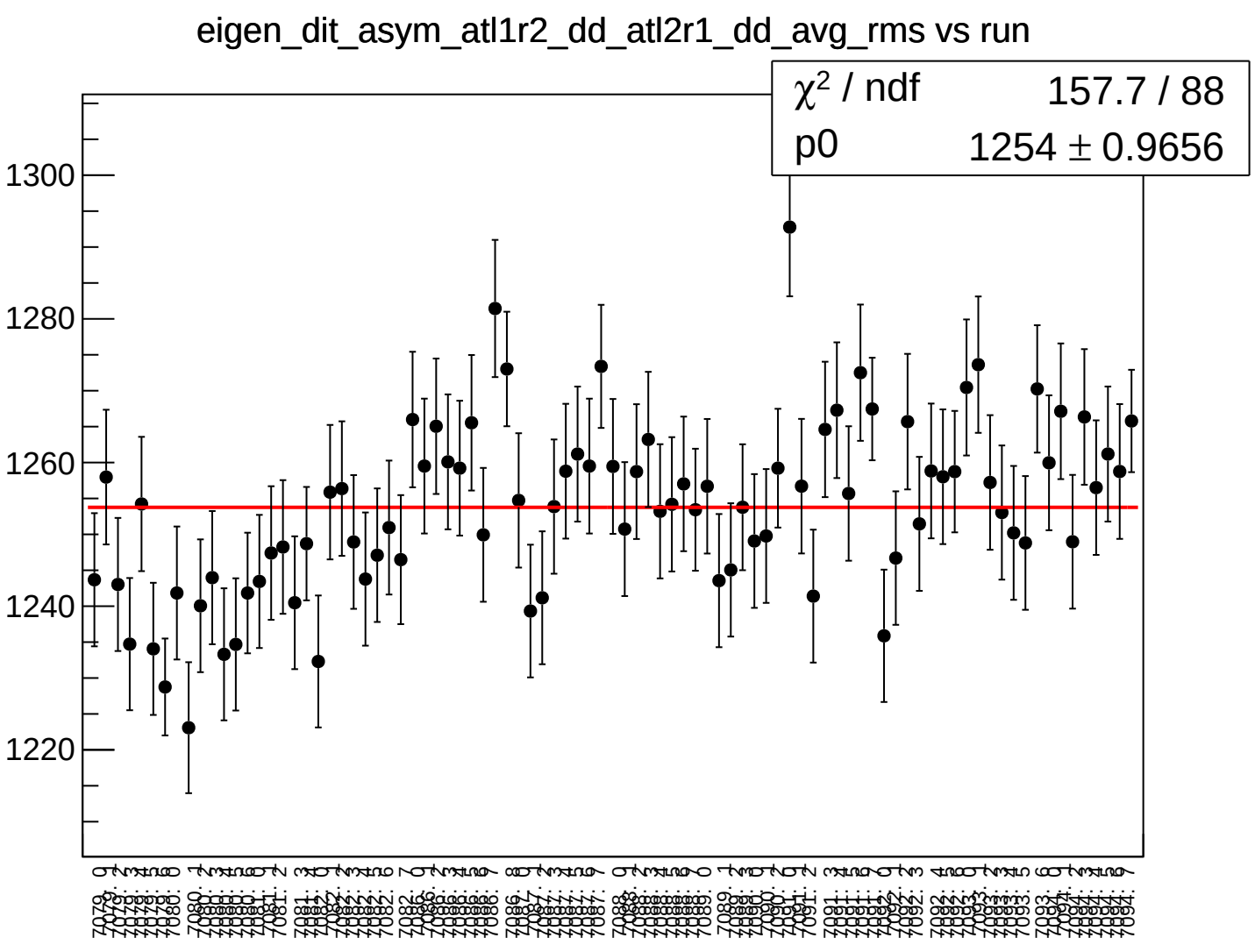

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 157.7 / 88
p0 1254 ± 0.9656
1300
1280
1260
1240
1220

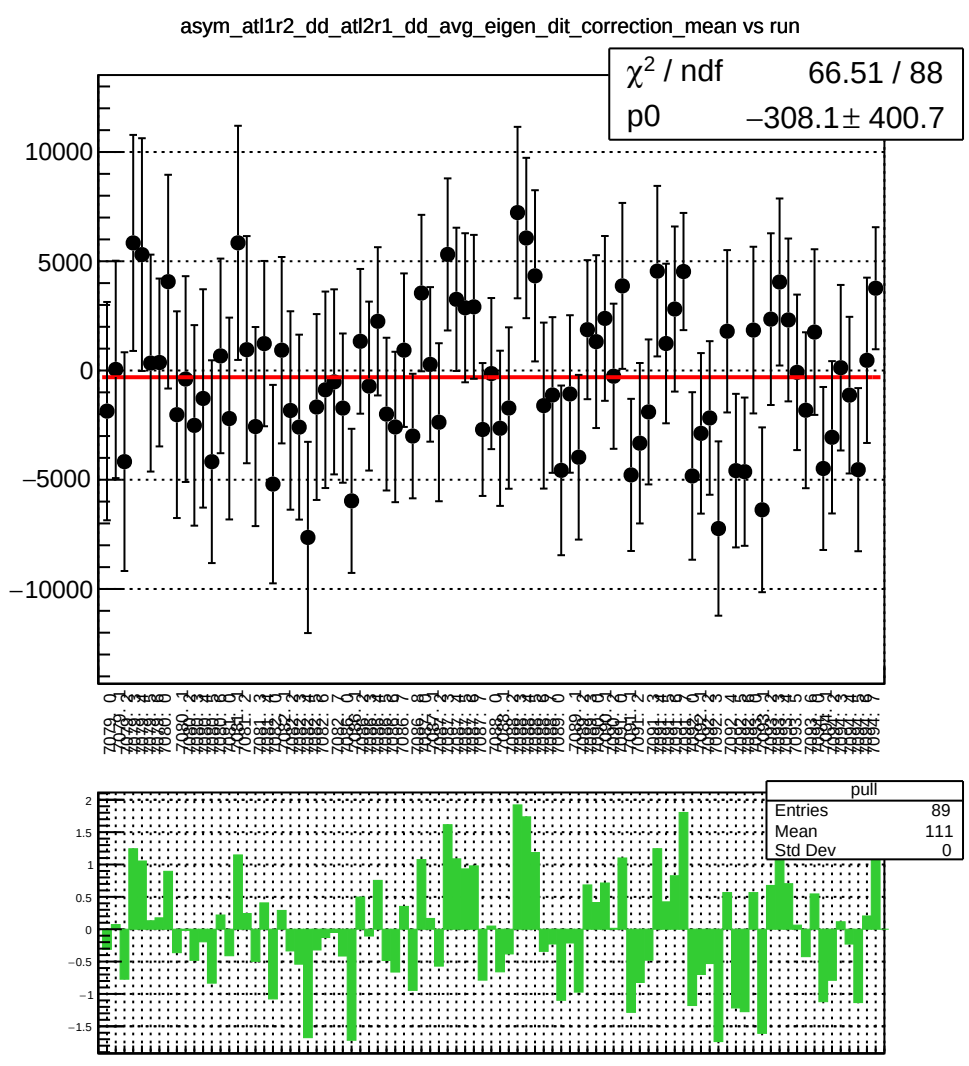

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 66.51 / 88
p0 −308.1± 400.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 111
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

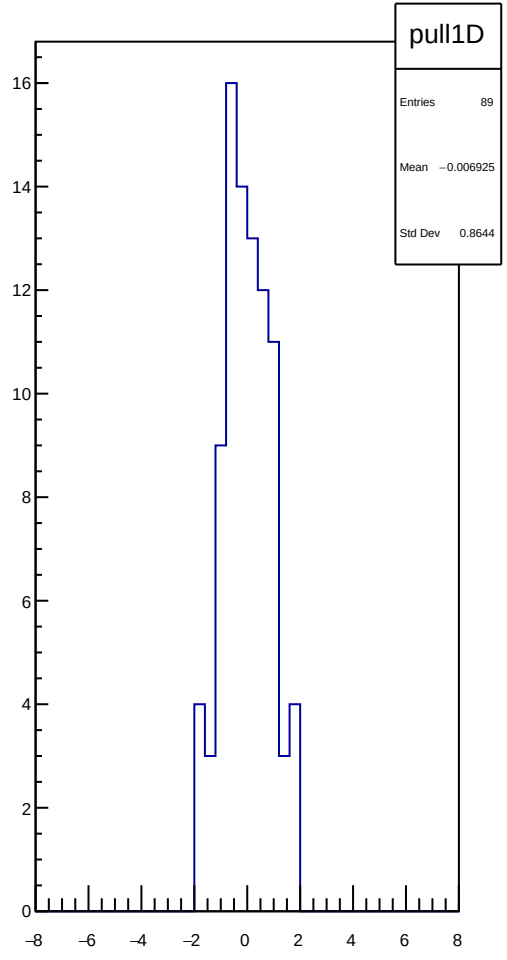

pull1D
Entries 89
Mean −0.006925
Std Dev 0.8644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

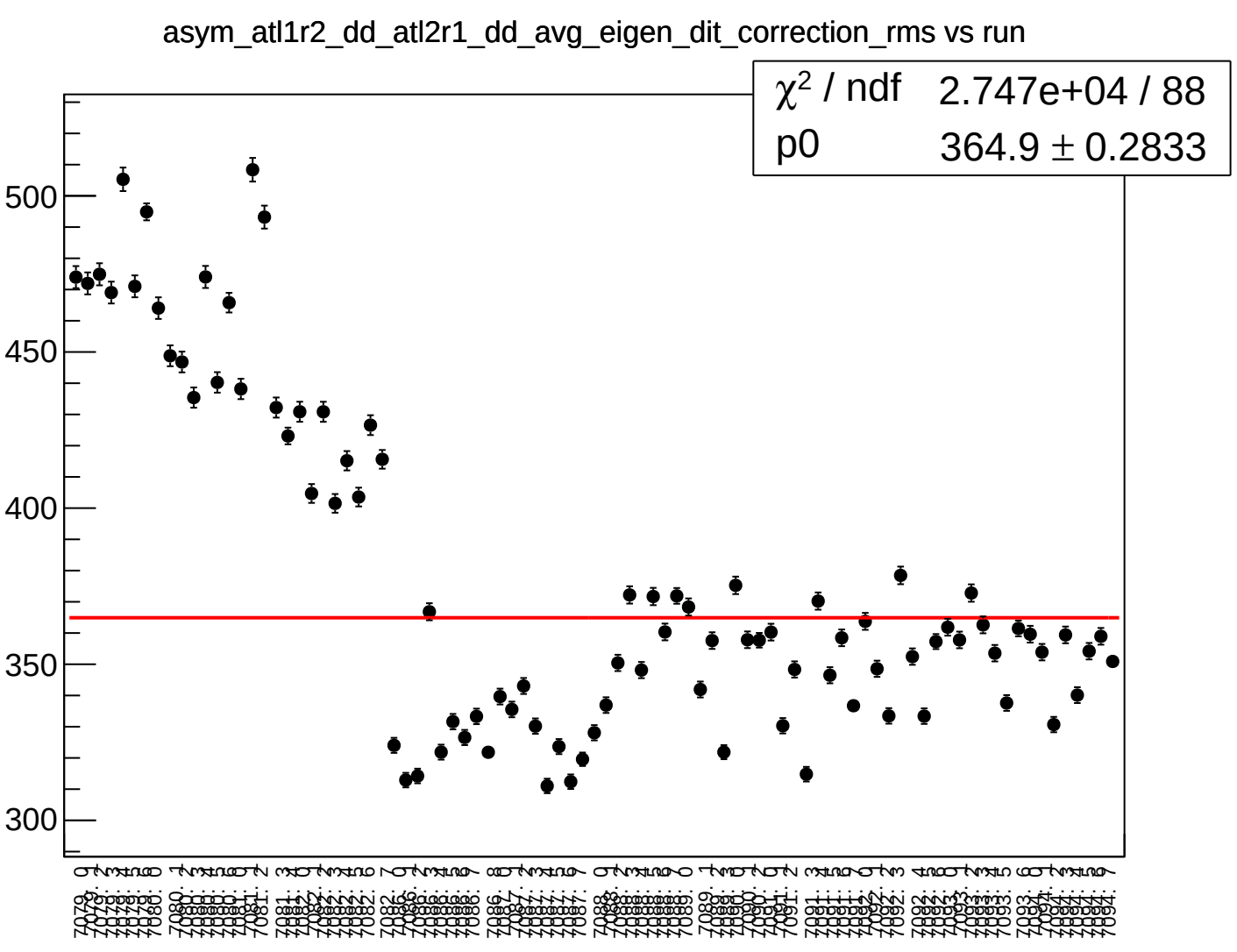

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2.747e+04 / 88
p0 364.9 ± 0.2833
500
450
400
350
300

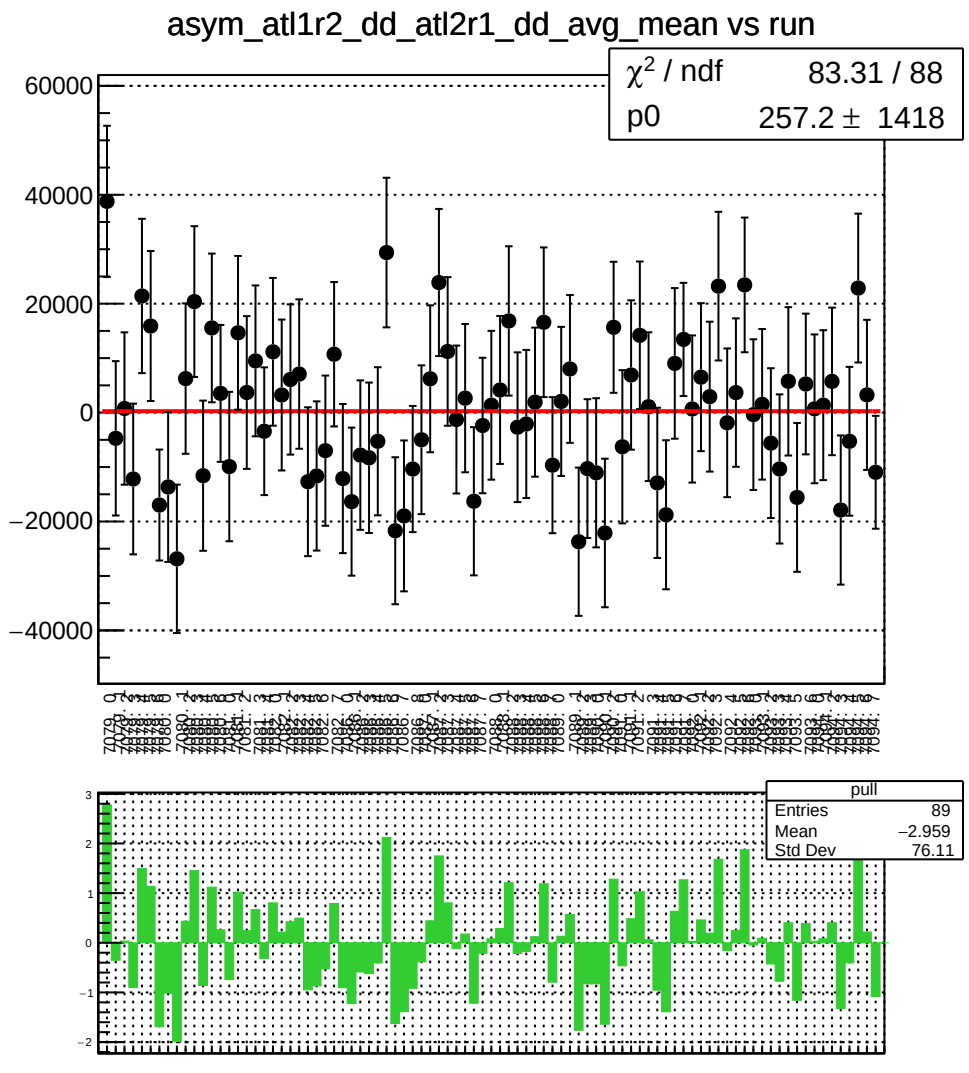

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.06 / 88
p0 −9.487 ± 1366
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −110.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.003452
Std Dev 0.9947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

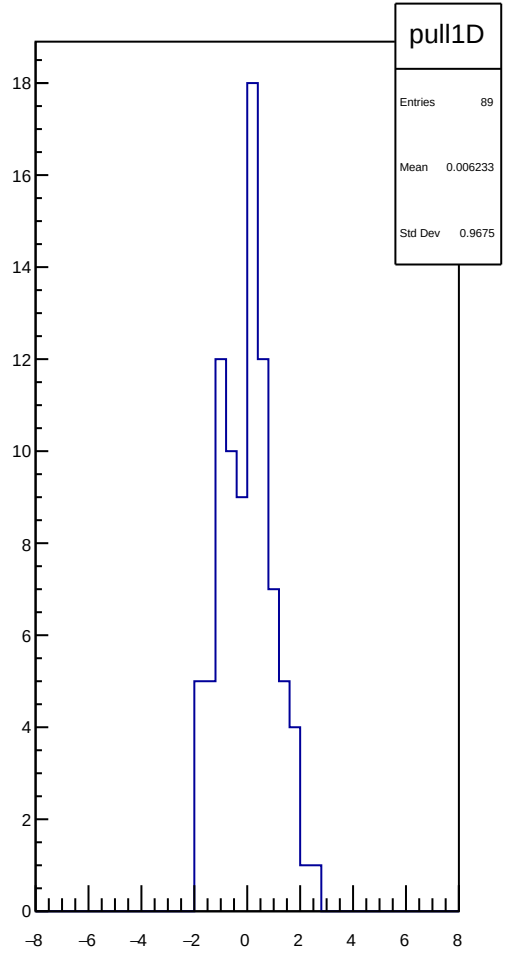

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 157.7 / 88
p0 1254 ± 0.9656
1300
1280
1260
1240
1220

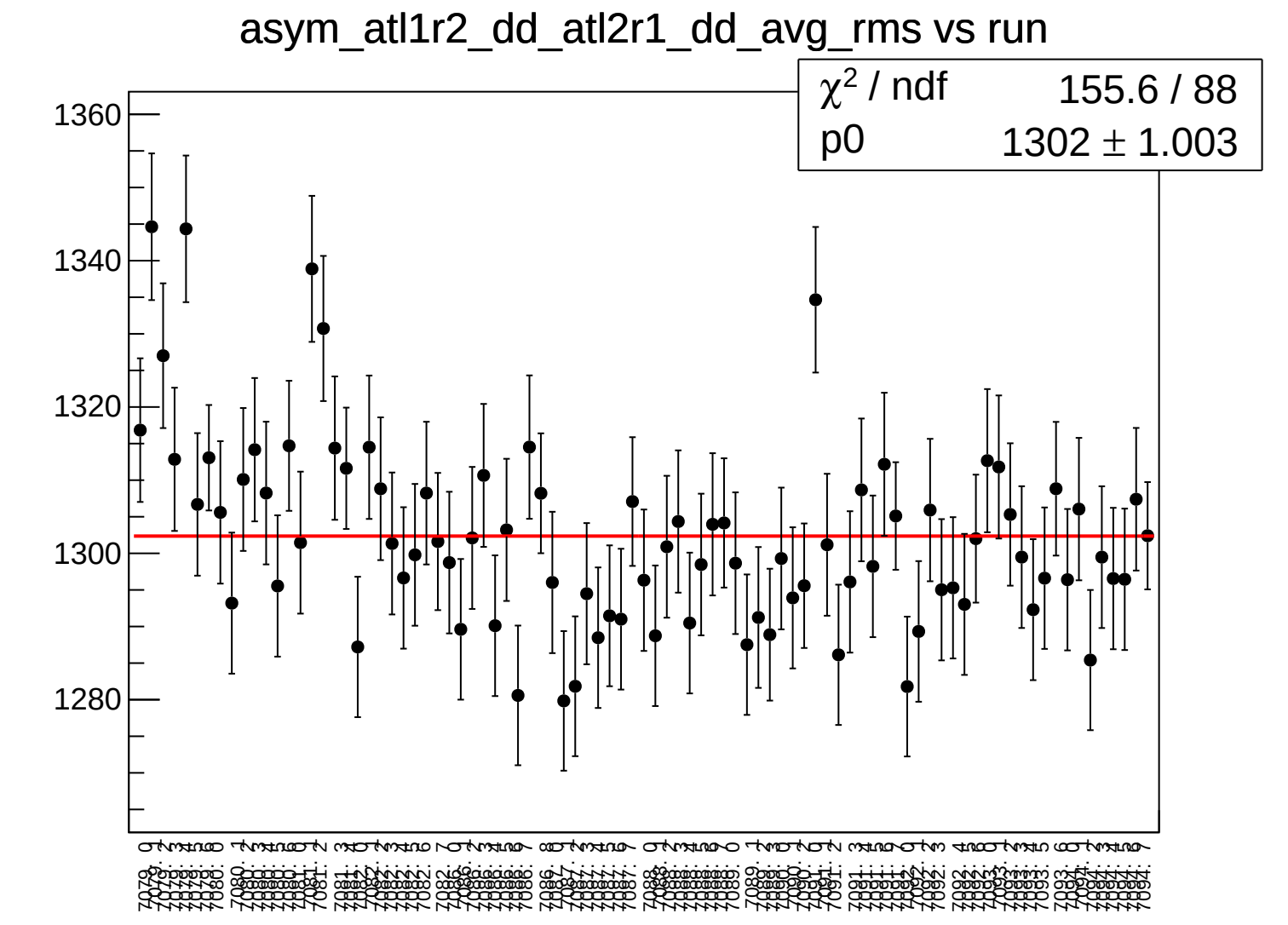

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.51 / 88
p0 −308.1± 400.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 111
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

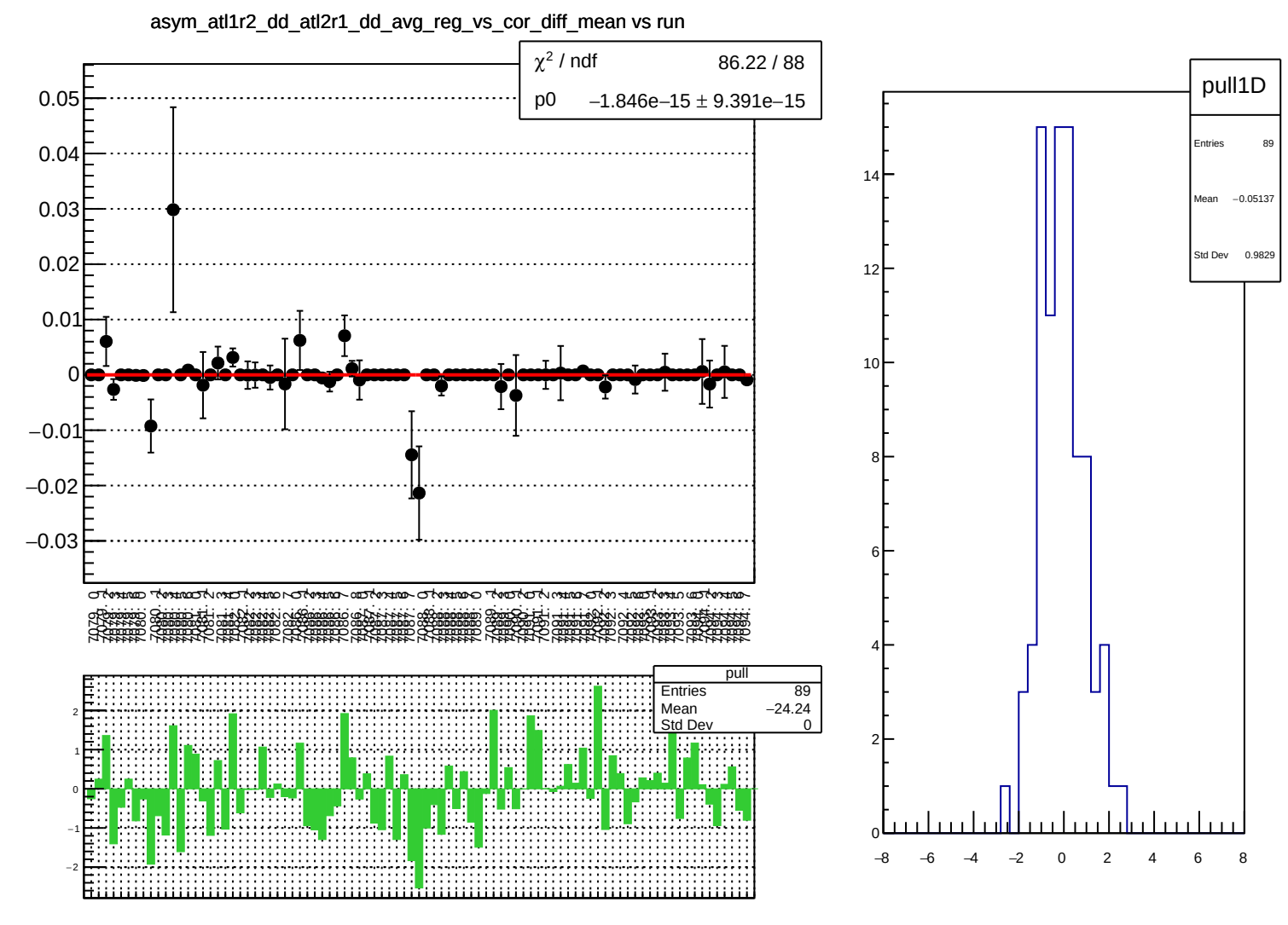

pull1D
Entries 89
Mean −0.006925
Std Dev 0.8644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

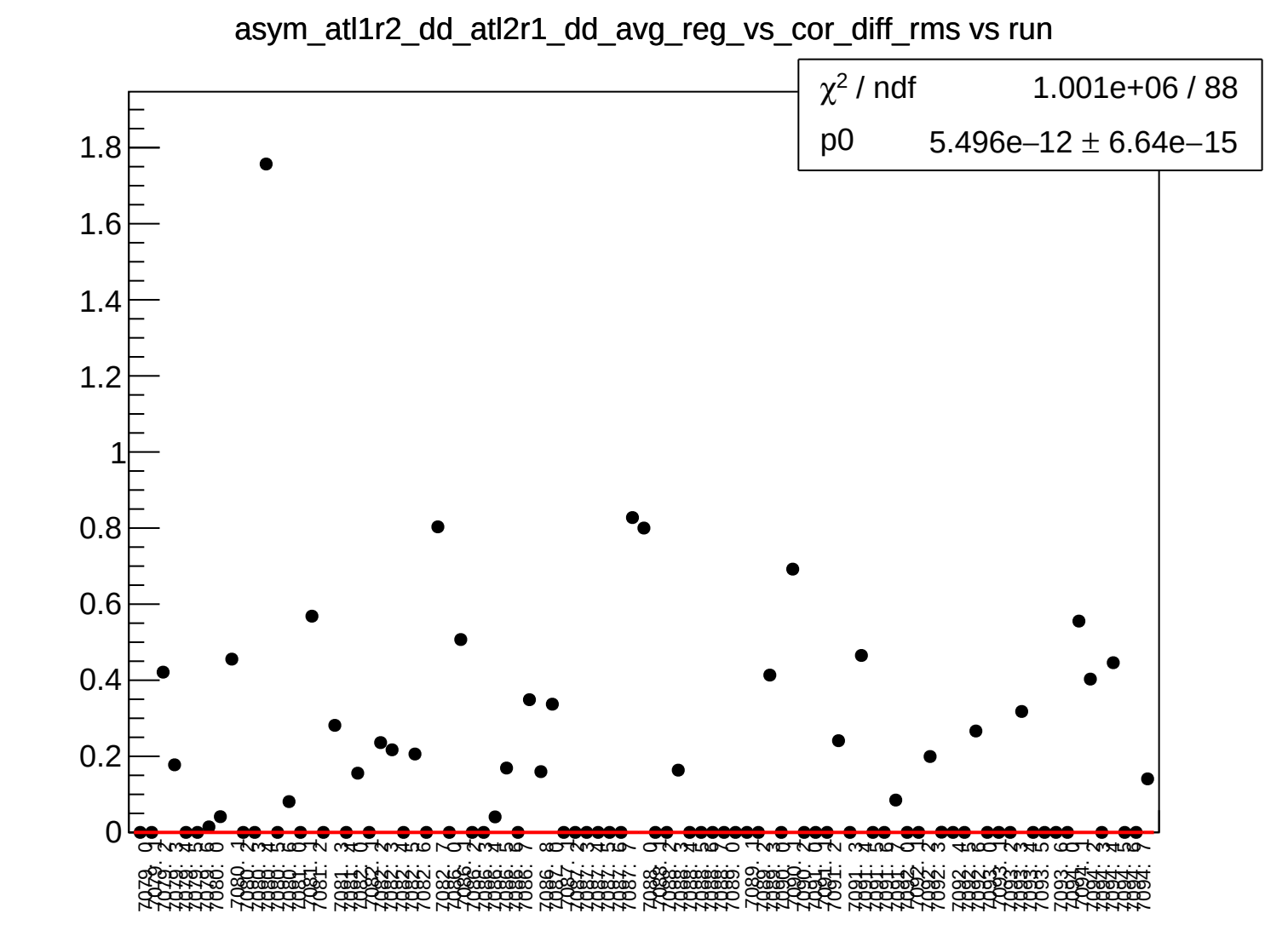

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.747e+04 / 88
p0 364.9 ± 0.2833
500
450
400
350
300

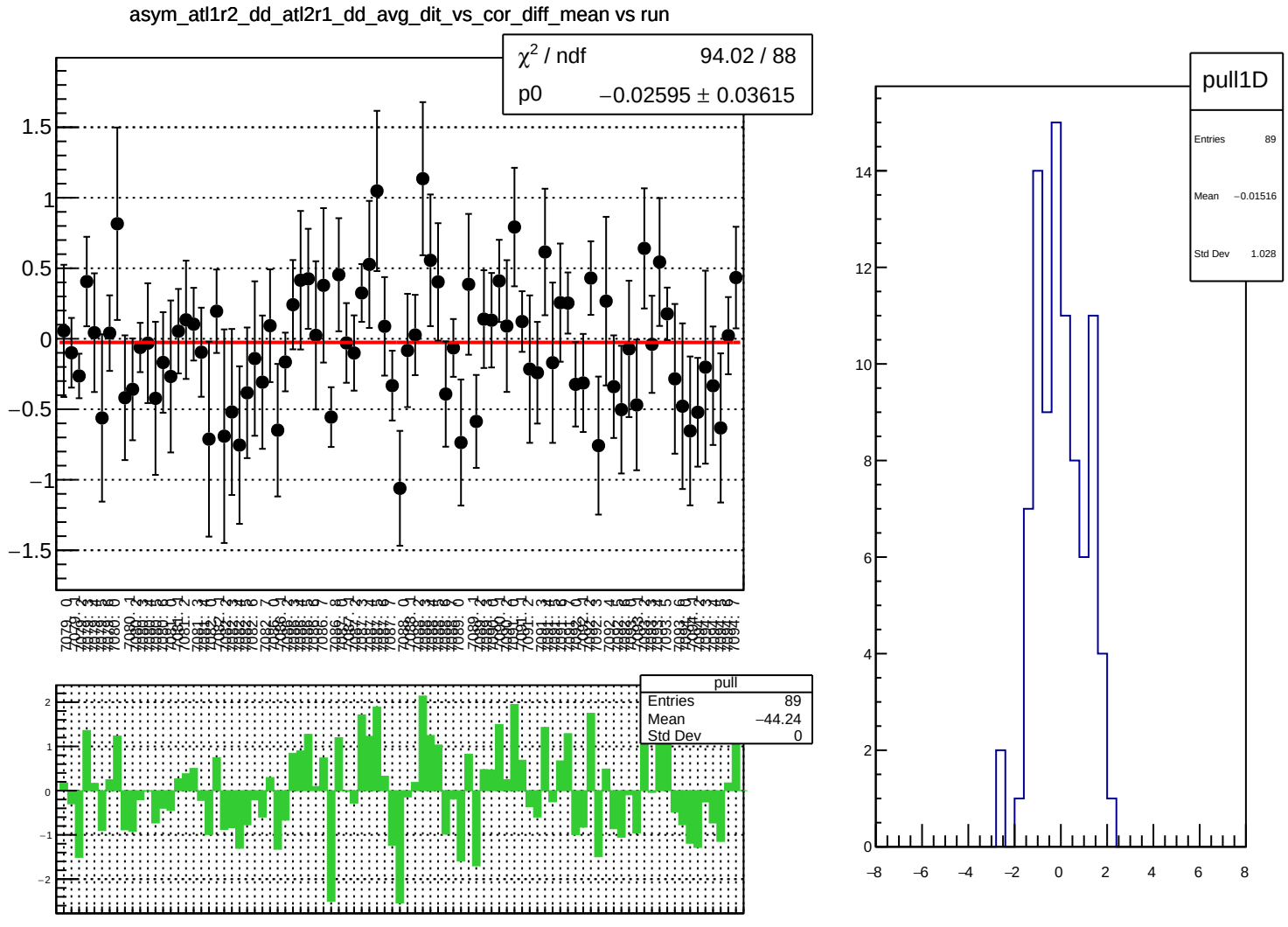

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.31 / 88
p0 257.2 ± 1418
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −2.959
Std Dev 76.11
3
2
1
0
−1
−2

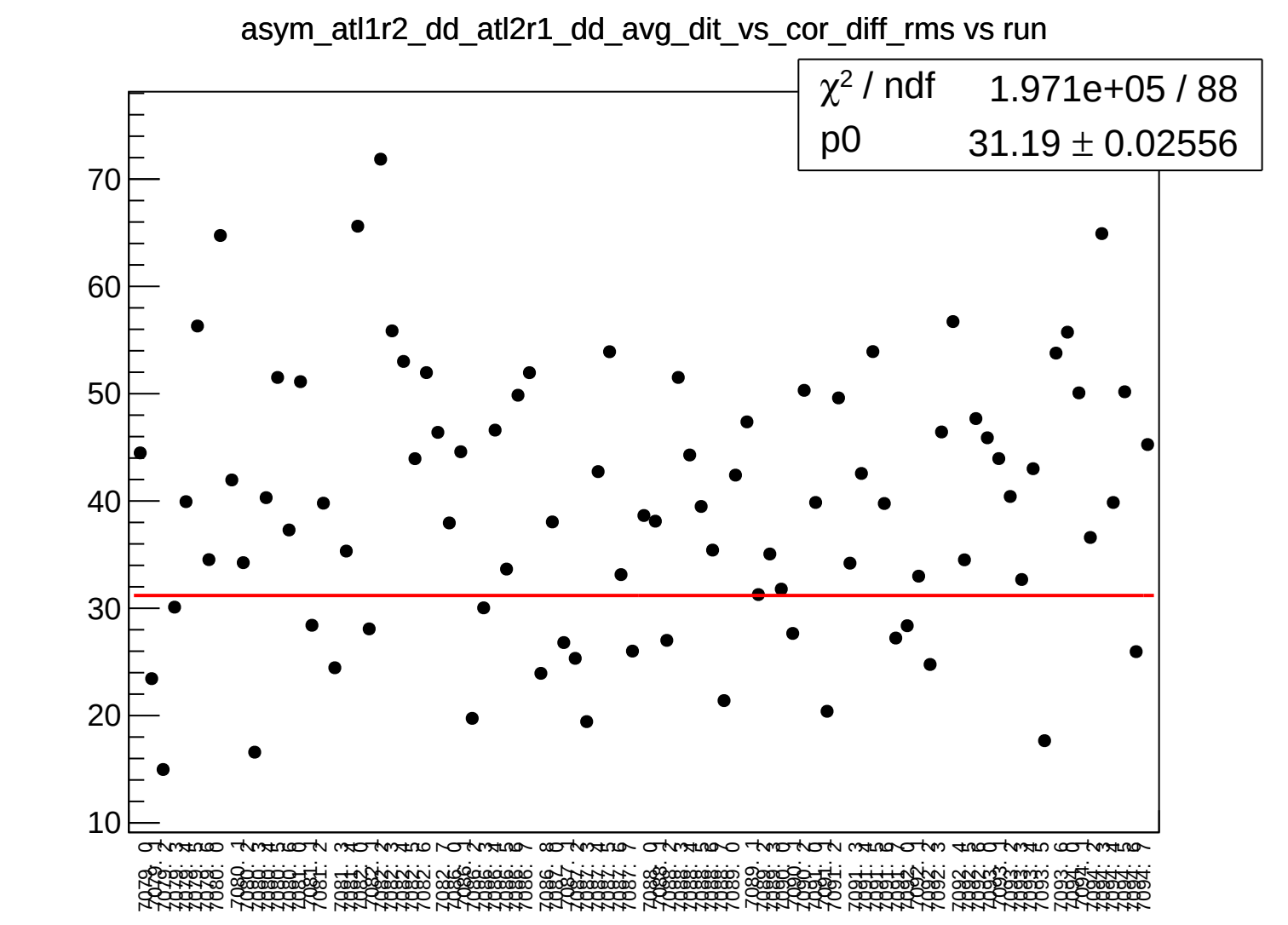

pull1D
Entries 89
Mean 0.006233
Std Dev 0.9675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

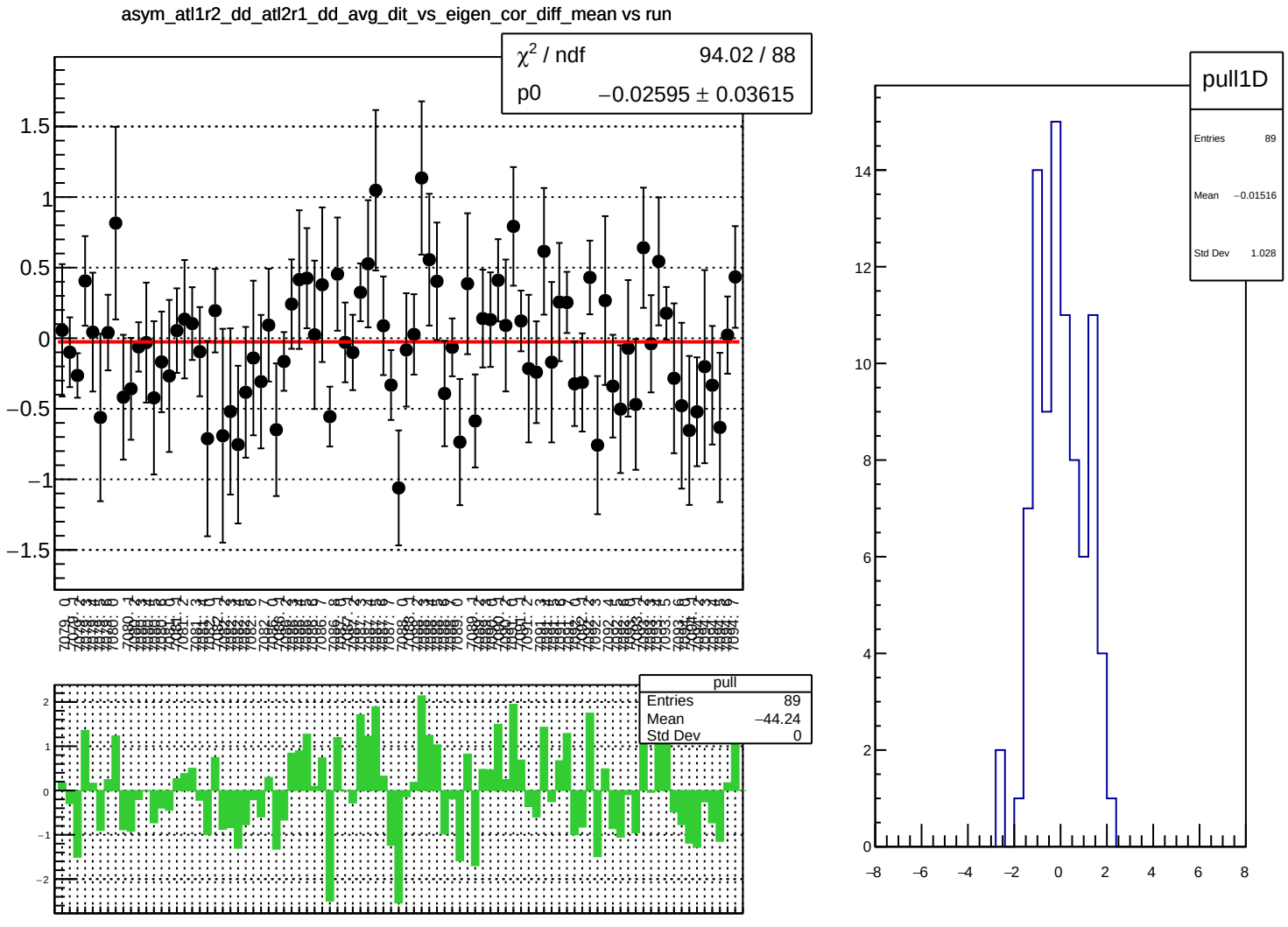

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 155.6 / 88
p0 1302 ± 1.003
1360
1340
1320
1300
1280

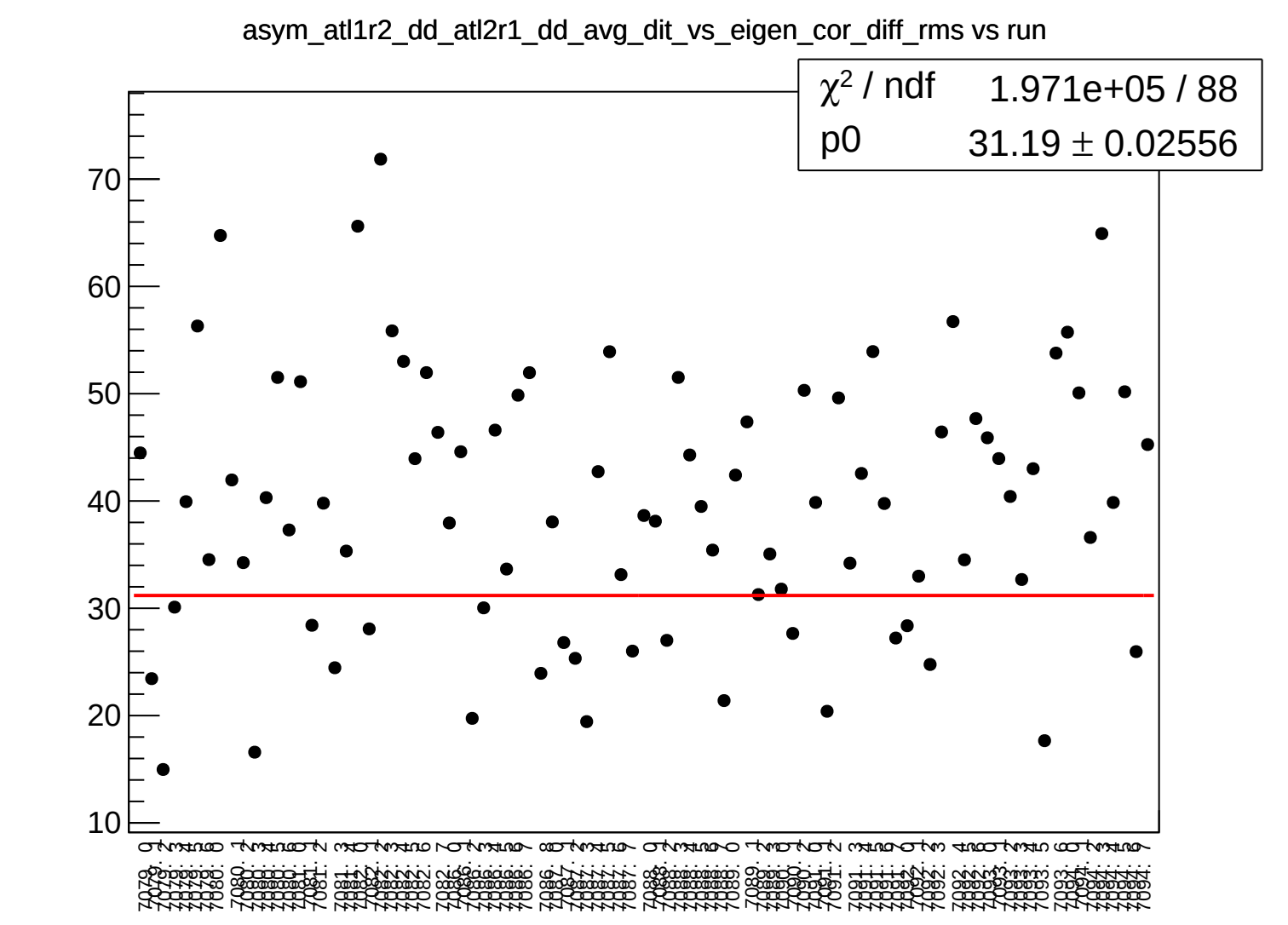

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.22 / 88
p0 −1.846e−15 ± 9.391e−15
pull
Entries 89
Mean −24.24
Std Dev 0
pull1D
Entries 89
Mean −0.05137
Std Dev 0.9829

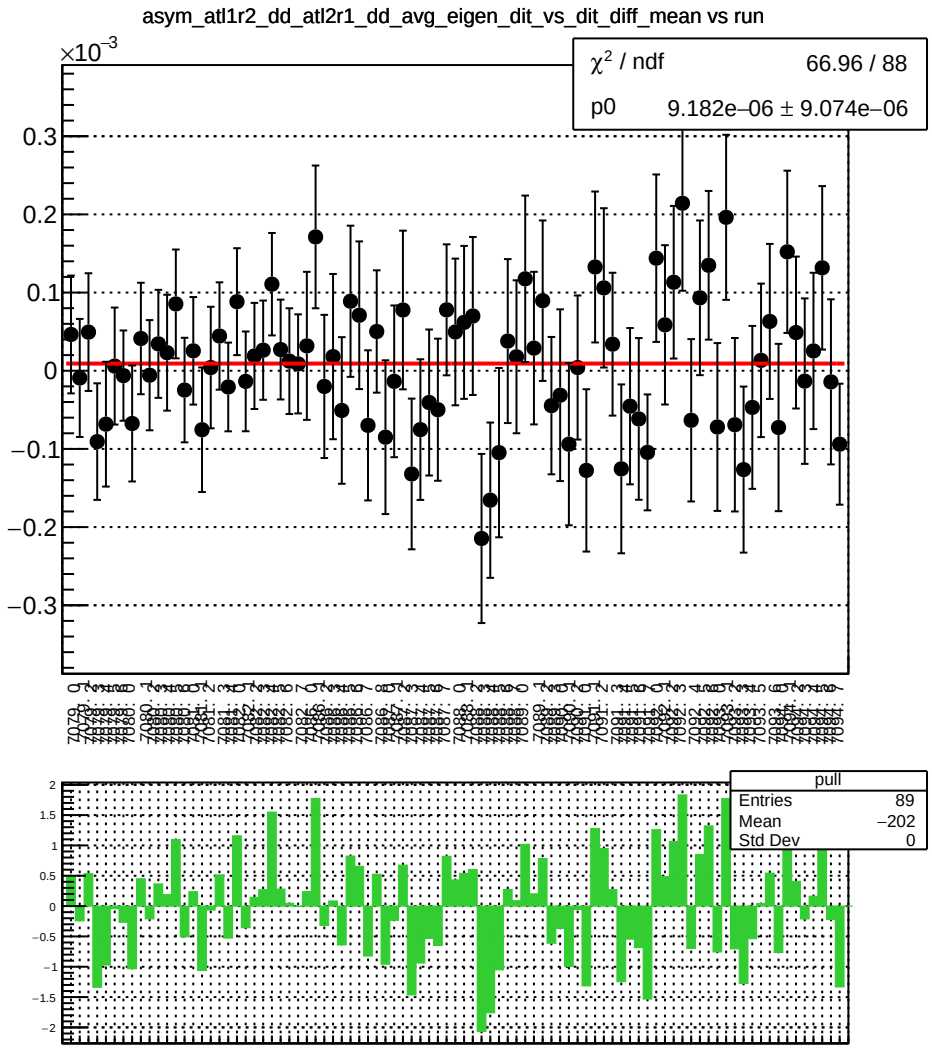

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 88
p0 5.496e−12 ± 6.64e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

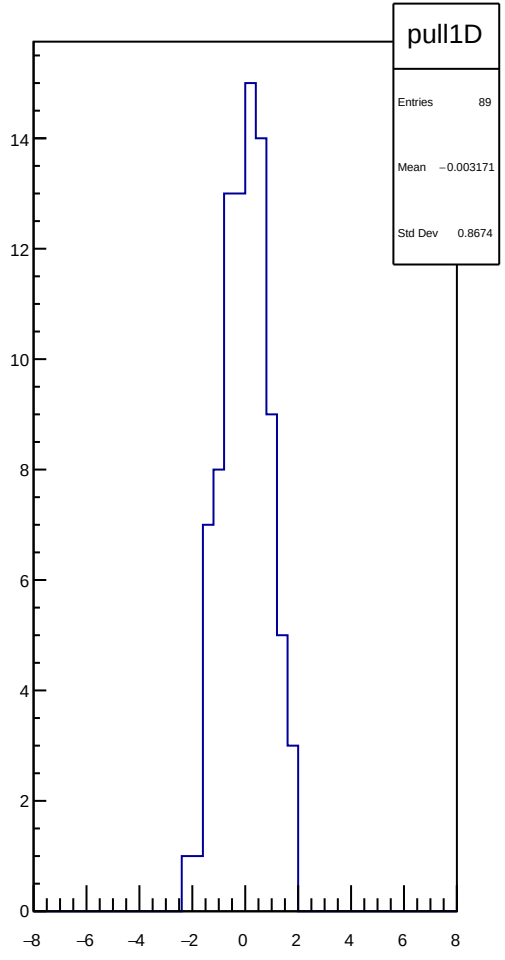

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.02 / 88
p0 −0.02595 ± 0.03615
pull
Entries 89
Mean −44.24
Std Dev 0
pull1D
Entries 89
Mean −0.01516
Std Dev 1.028

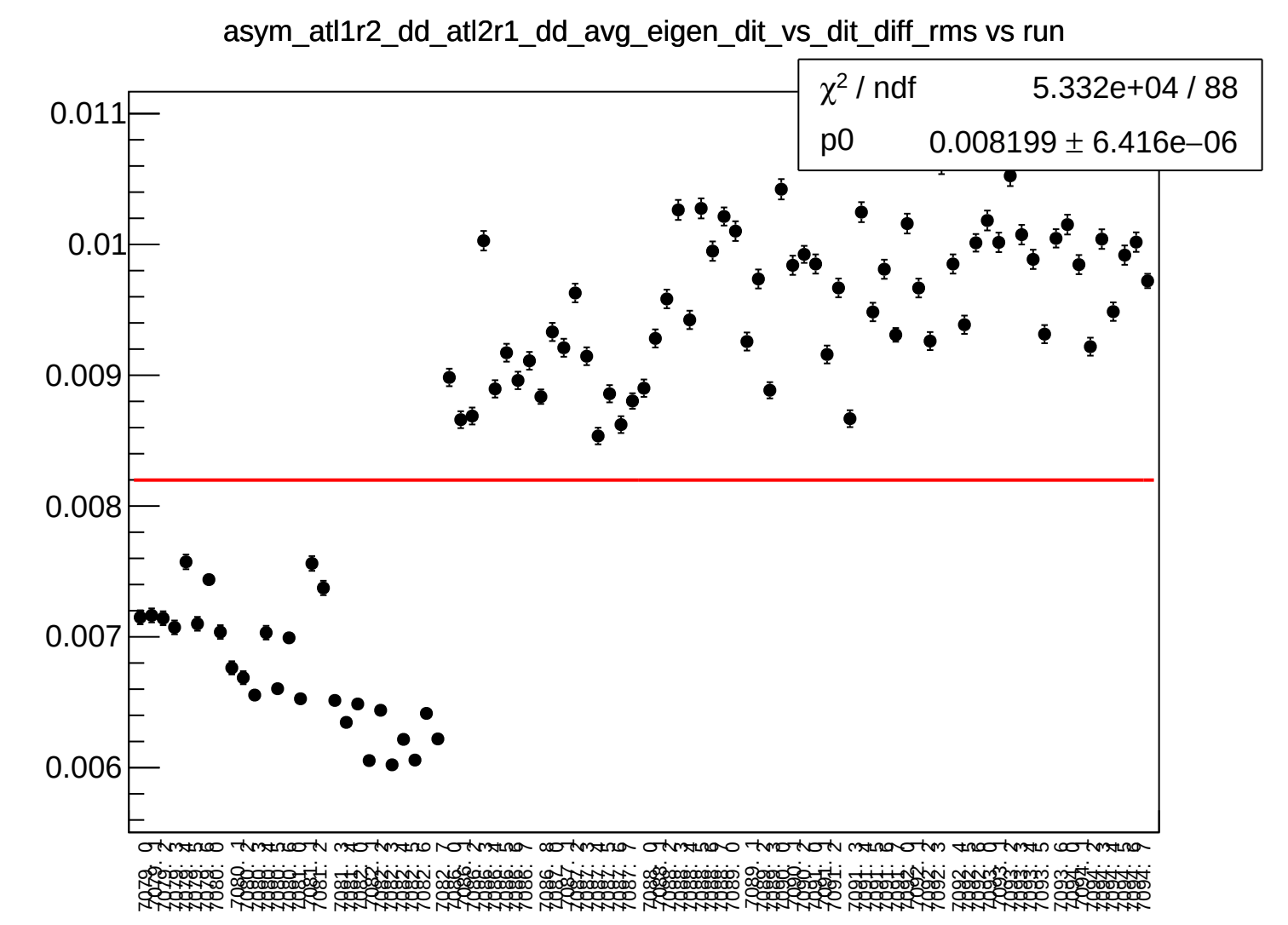

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 88
p0 31.19 ± 0.02556
70
60
50
40
30
20
10

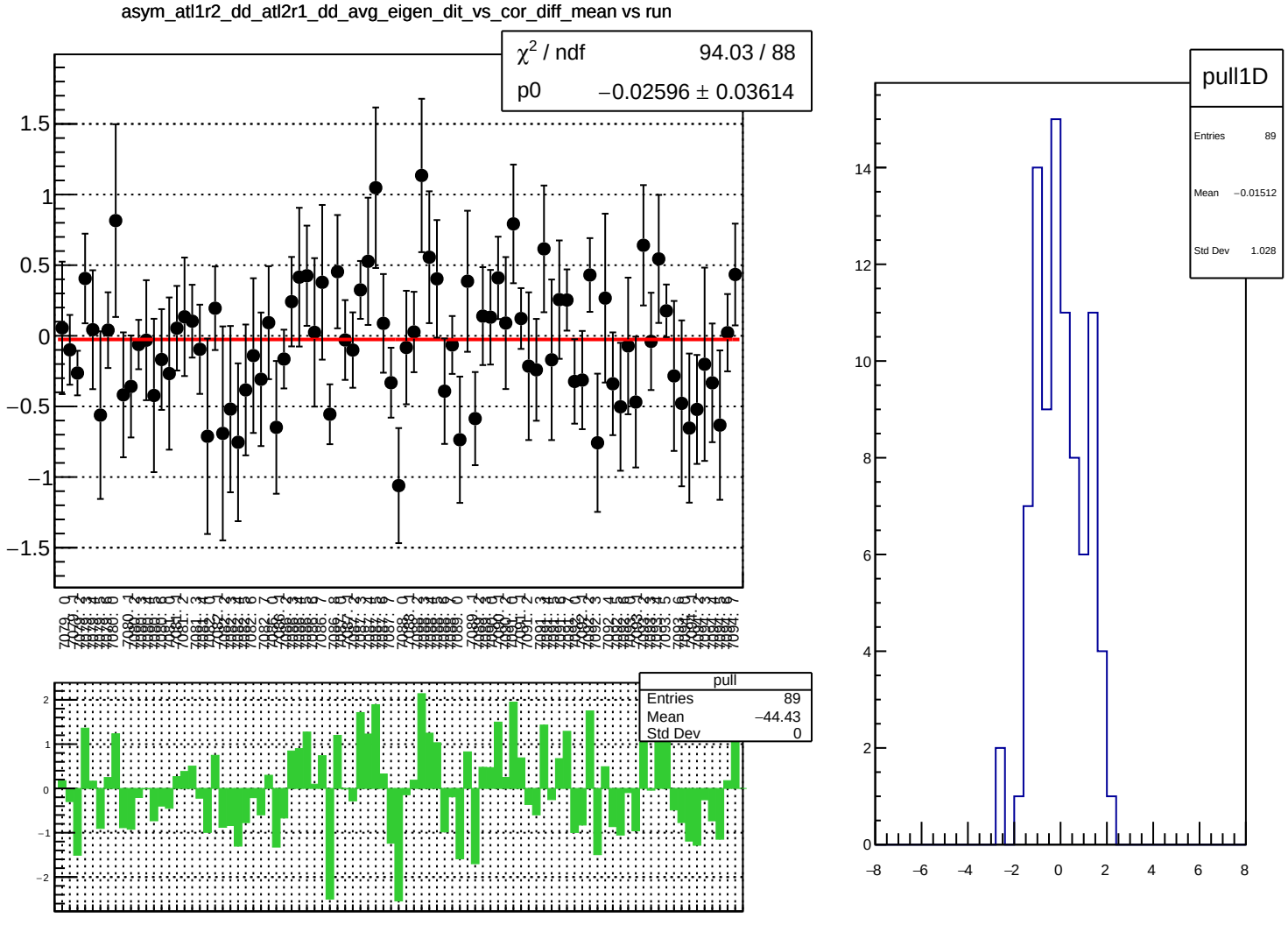

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.02 / 88
p0 −0.02595 ± 0.03615
pull
Entries 89
Mean −44.24
Std Dev 0
pull1D
Entries 89
Mean −0.01516
Std Dev 1.028

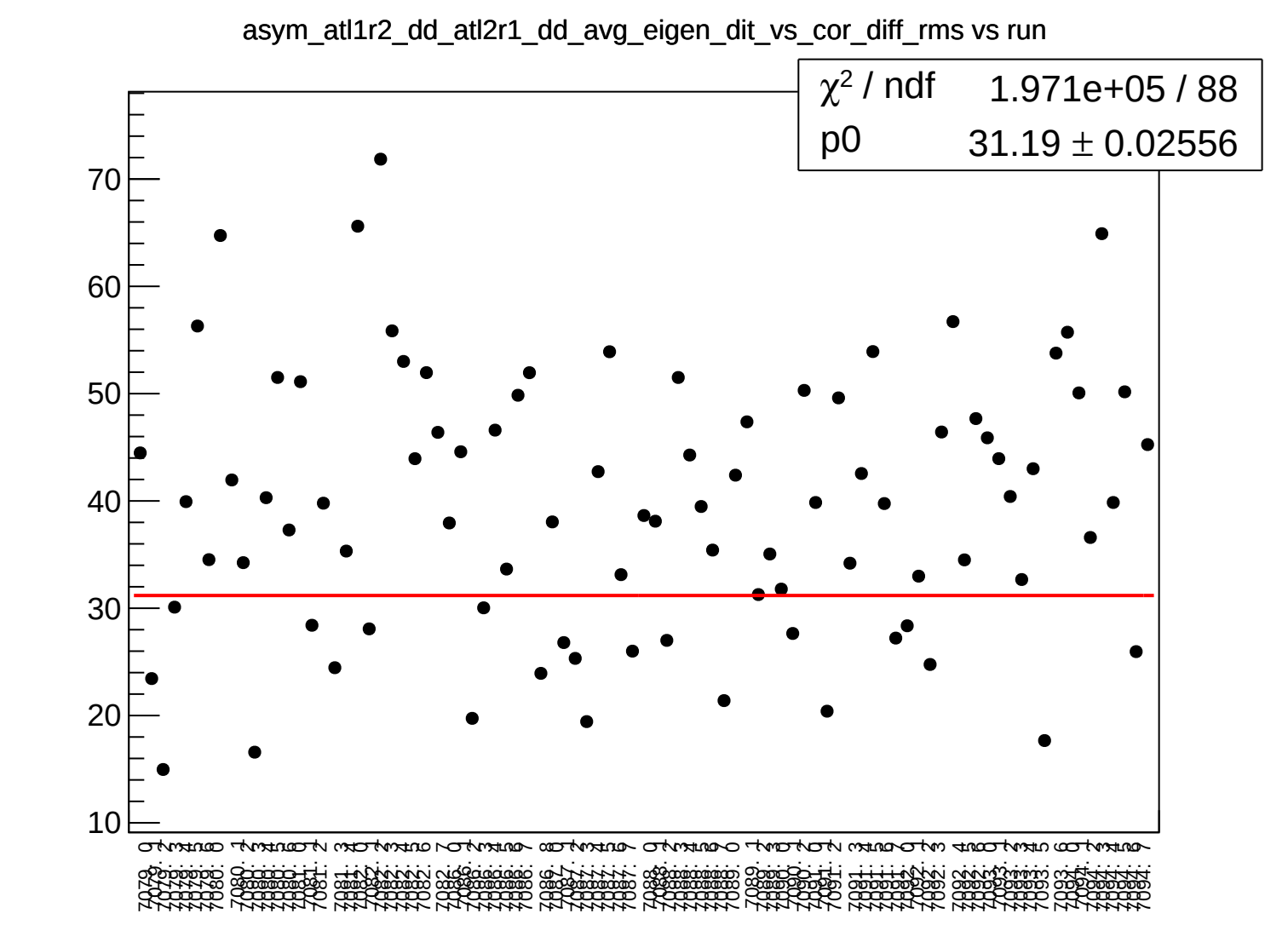

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 88
p0 31.19 ± 0.02556
70
60
50
40
30
20
10

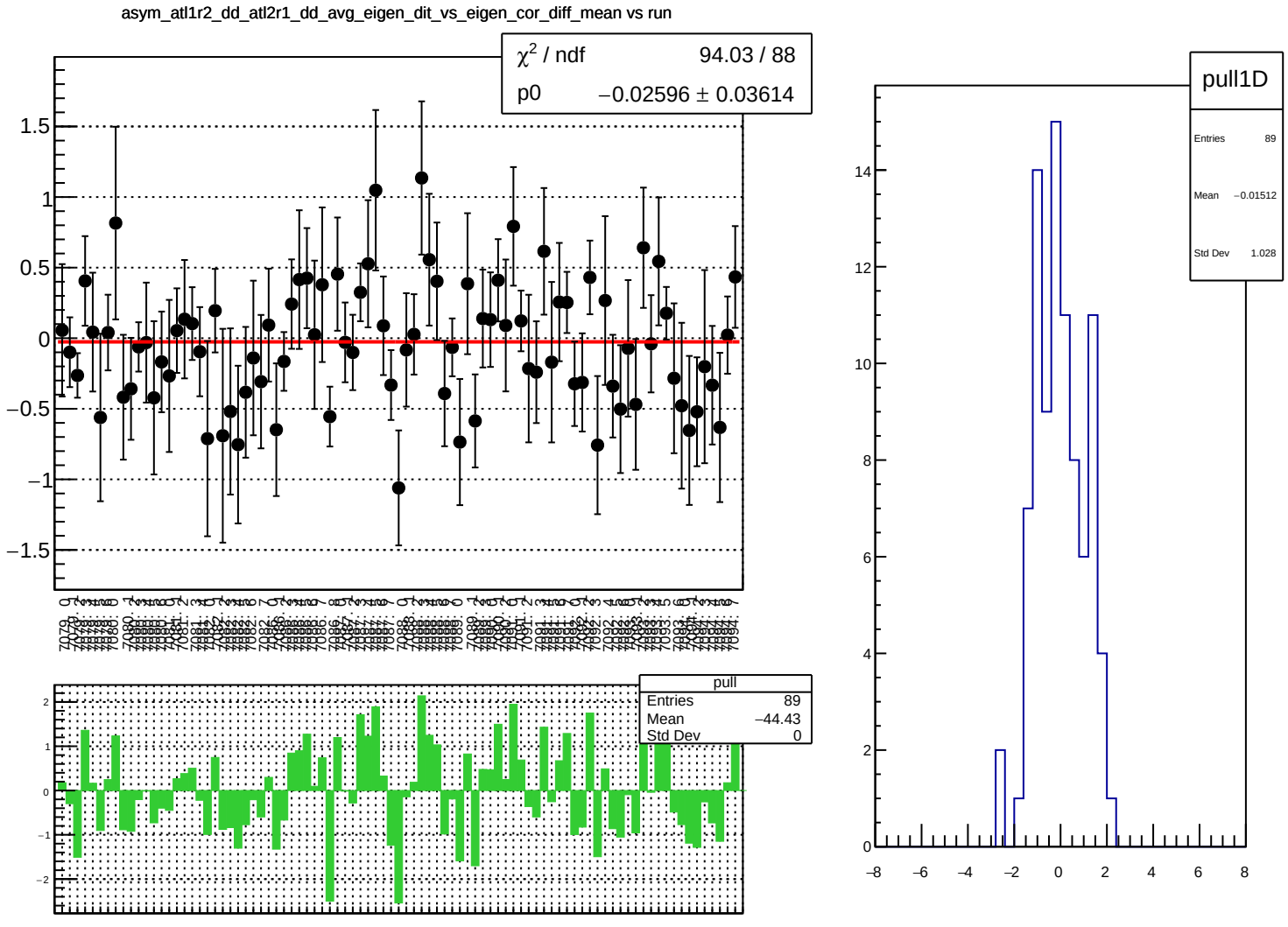

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.96 / 88
p0 9.182e−06 ± 9.074e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean −202
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

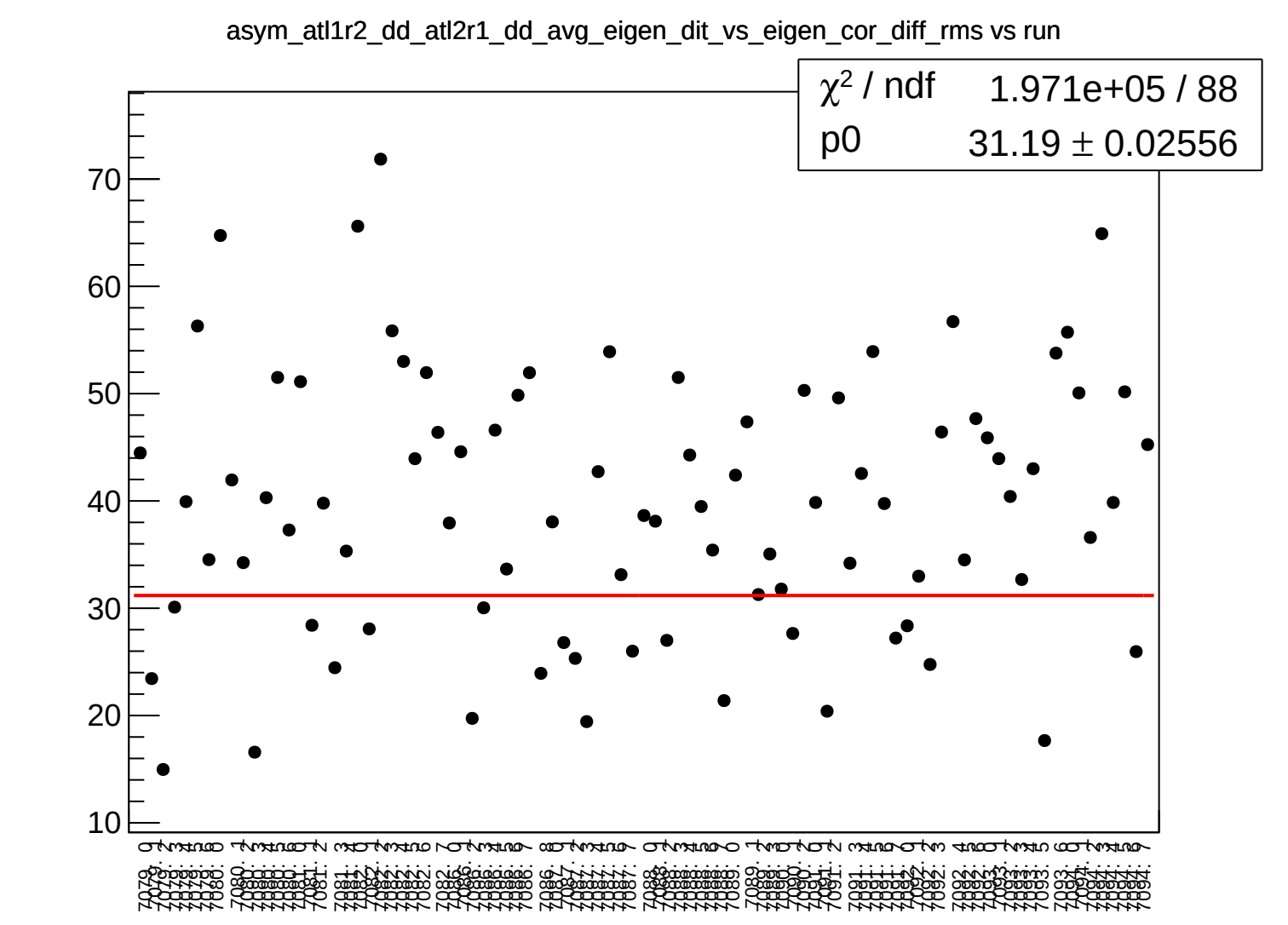

pull1D
Entries 89
Mean −0.003171
Std Dev 0.8674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

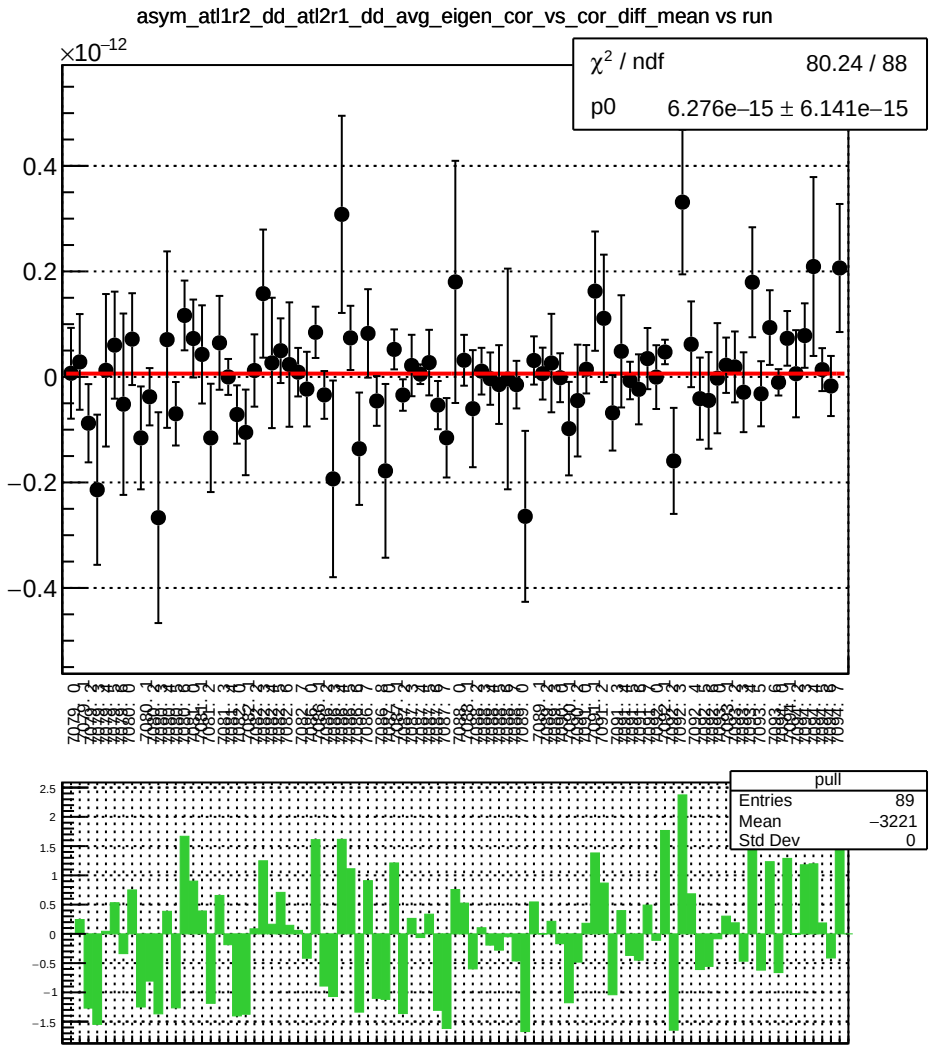

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.332e+04 / 88
p0 0.008199 ± 6.416e−06
0.011
0.01
0.009
0.008
0.007
0.006

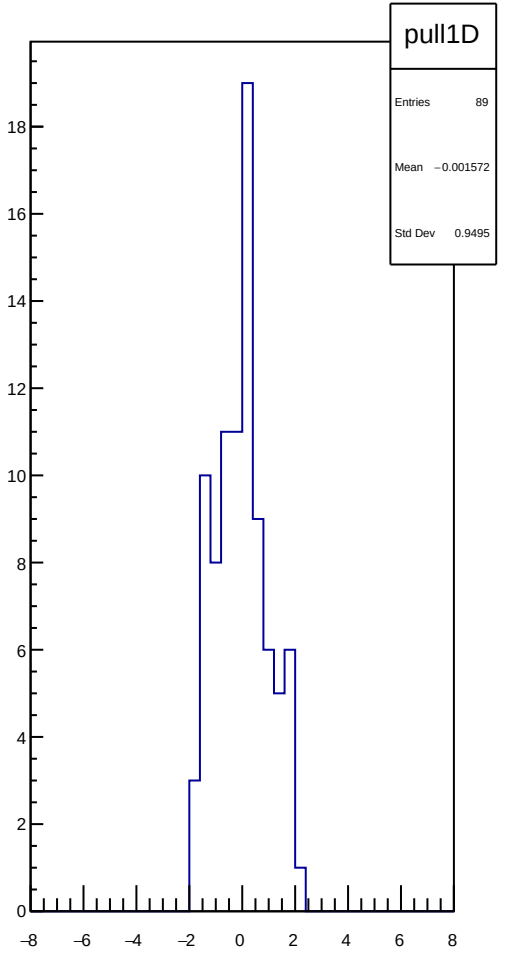

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.03 / 88
p0 −0.02596 ± 0.03614
pull
Entries 89
Mean −44.43
Std Dev 0
pull1D
Entries 89
Mean −0.01512
Std Dev 1.028

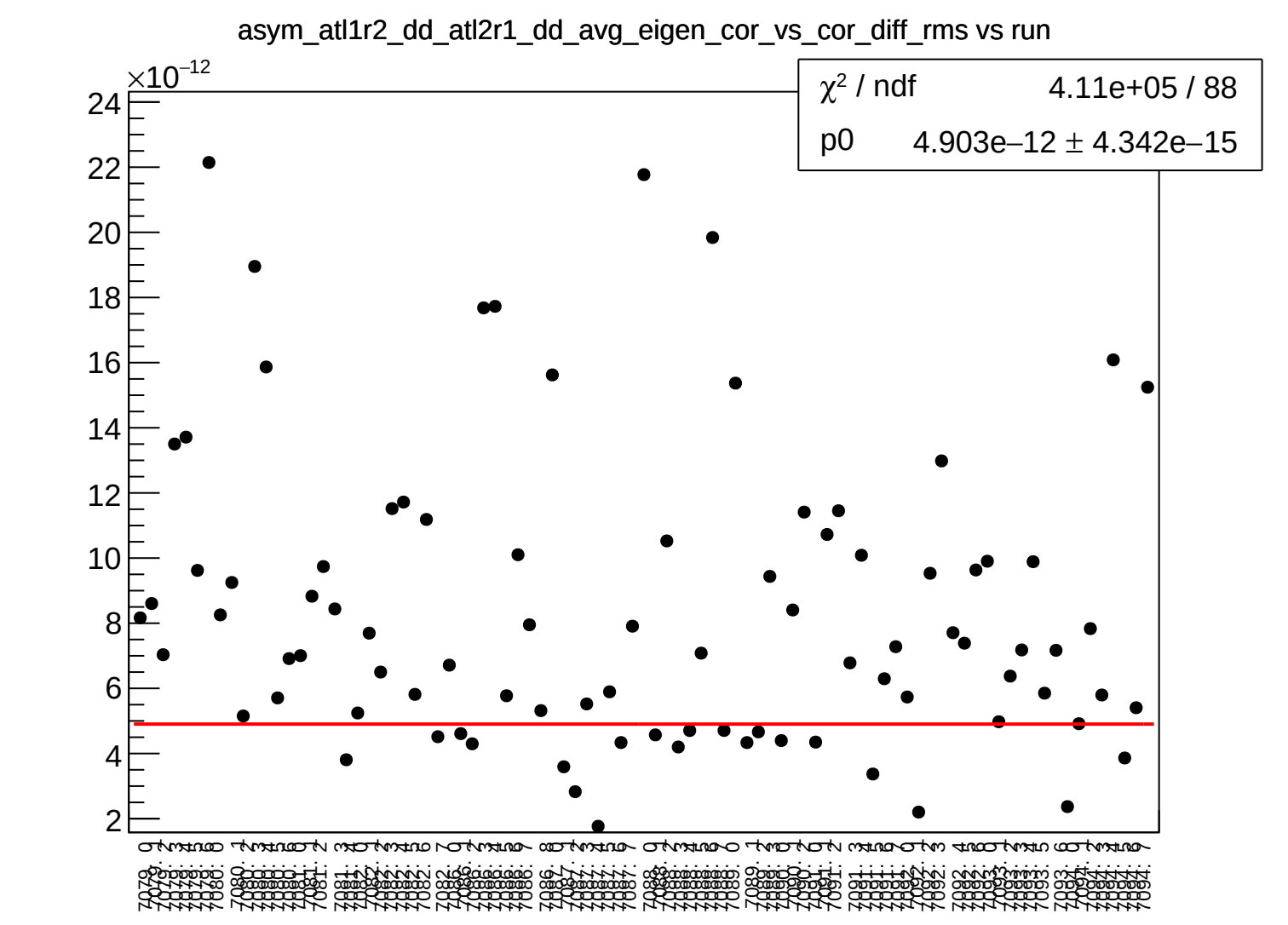

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 88
p0 31.19 ± 0.02556
70
60
50
40
30
20
10

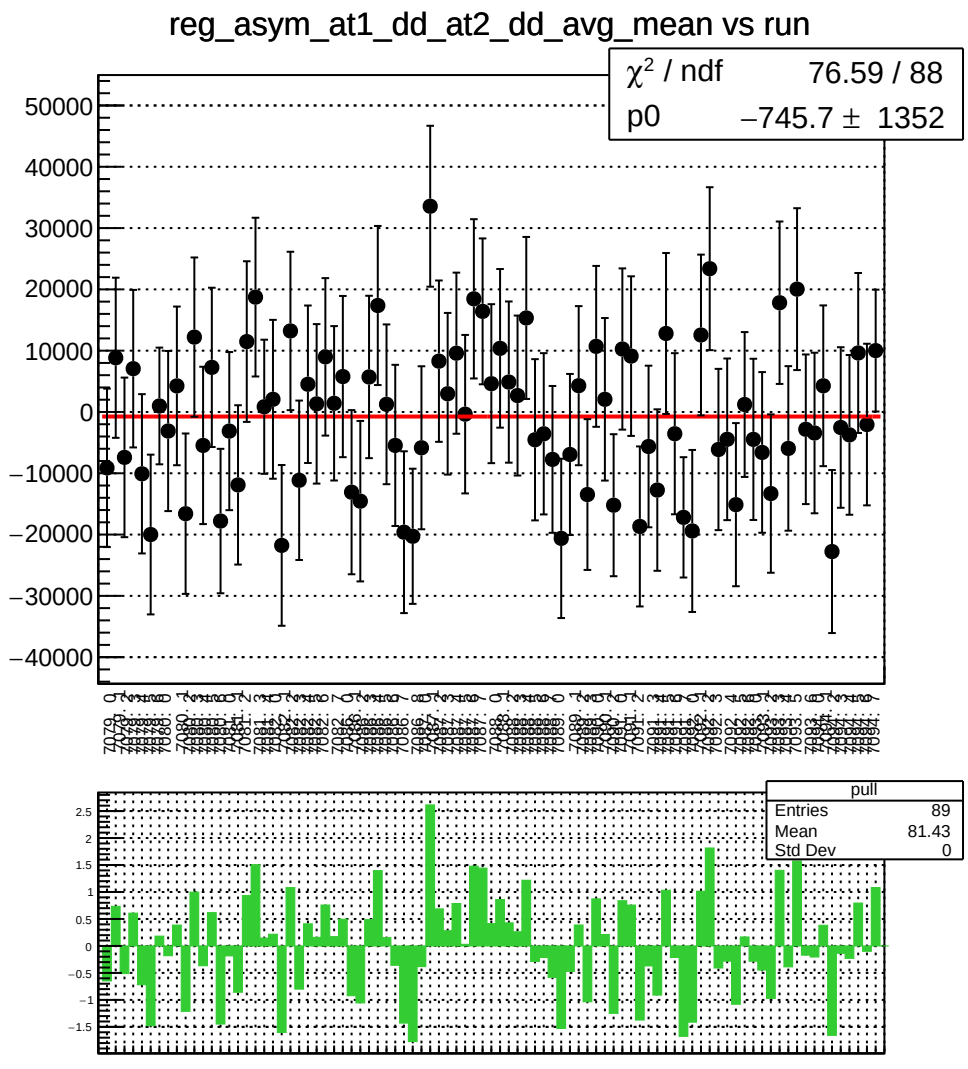

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.03 / 88
p0 −0.02596 ± 0.03614
pull
Entries 89
Mean −44.43
Std Dev 0
pull1D
Entries 89
Mean −0.01512
Std Dev 1.028

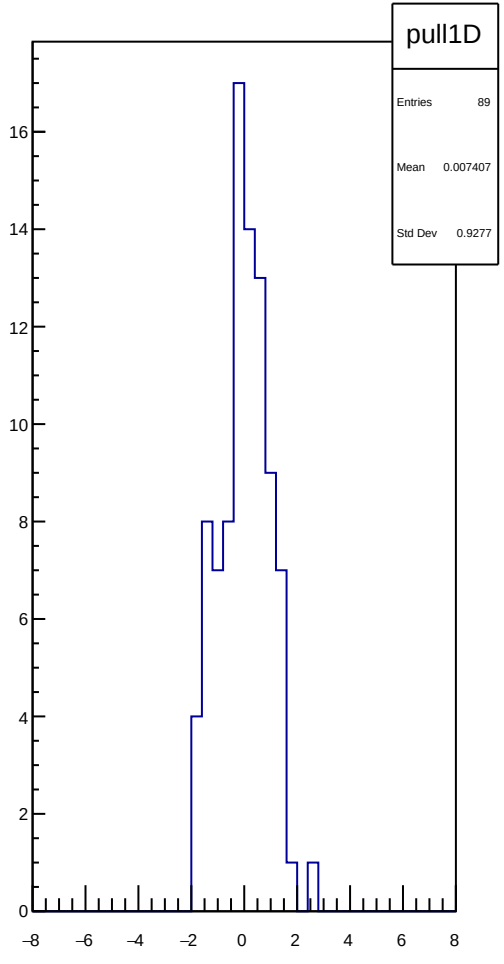

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 88
p0 31.19 ± 0.02556
70
60
50
40
30
20
10

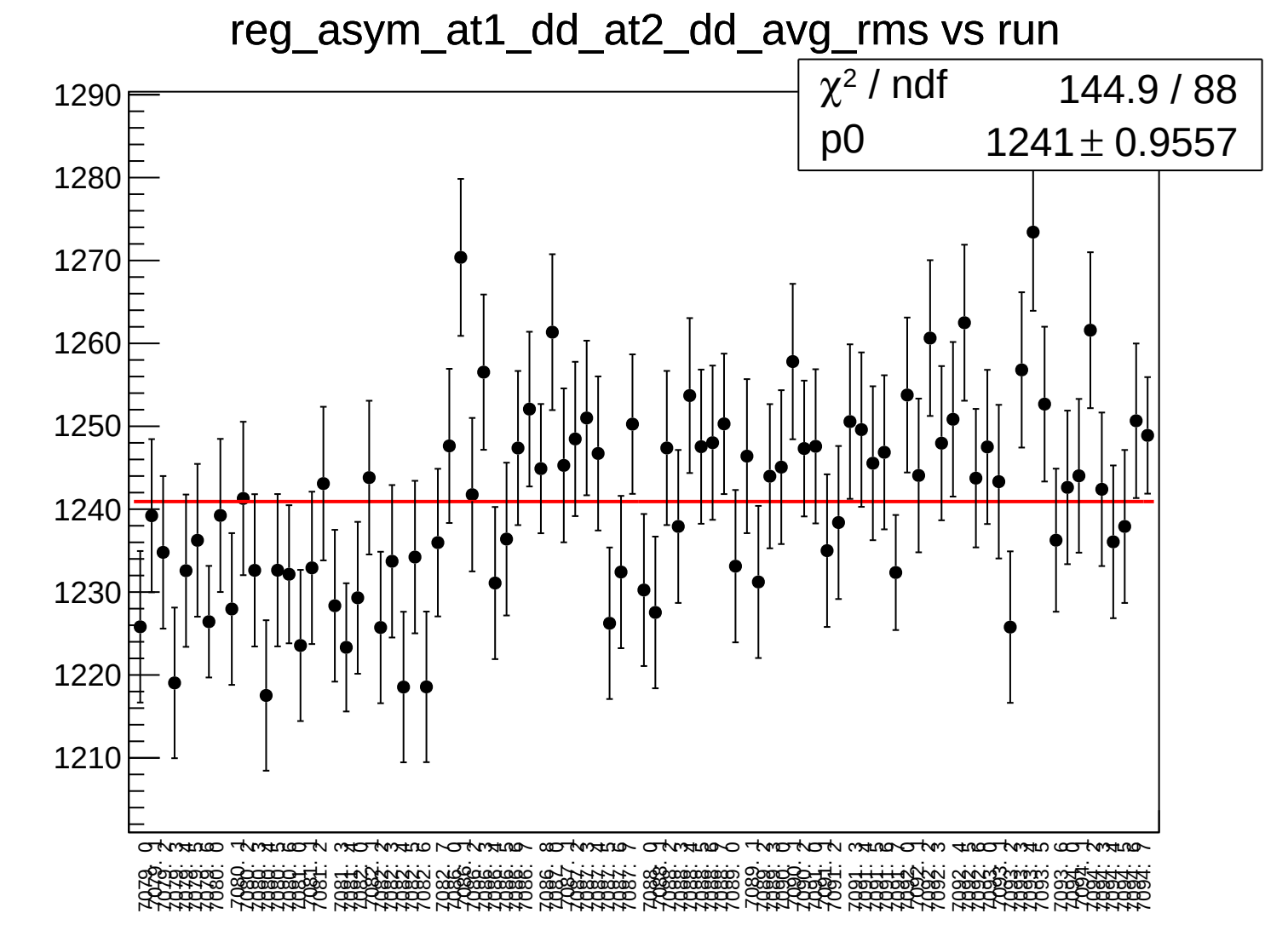

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 80.24 / 88
p0 6.276e−15 ± 6.141e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean −3221
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

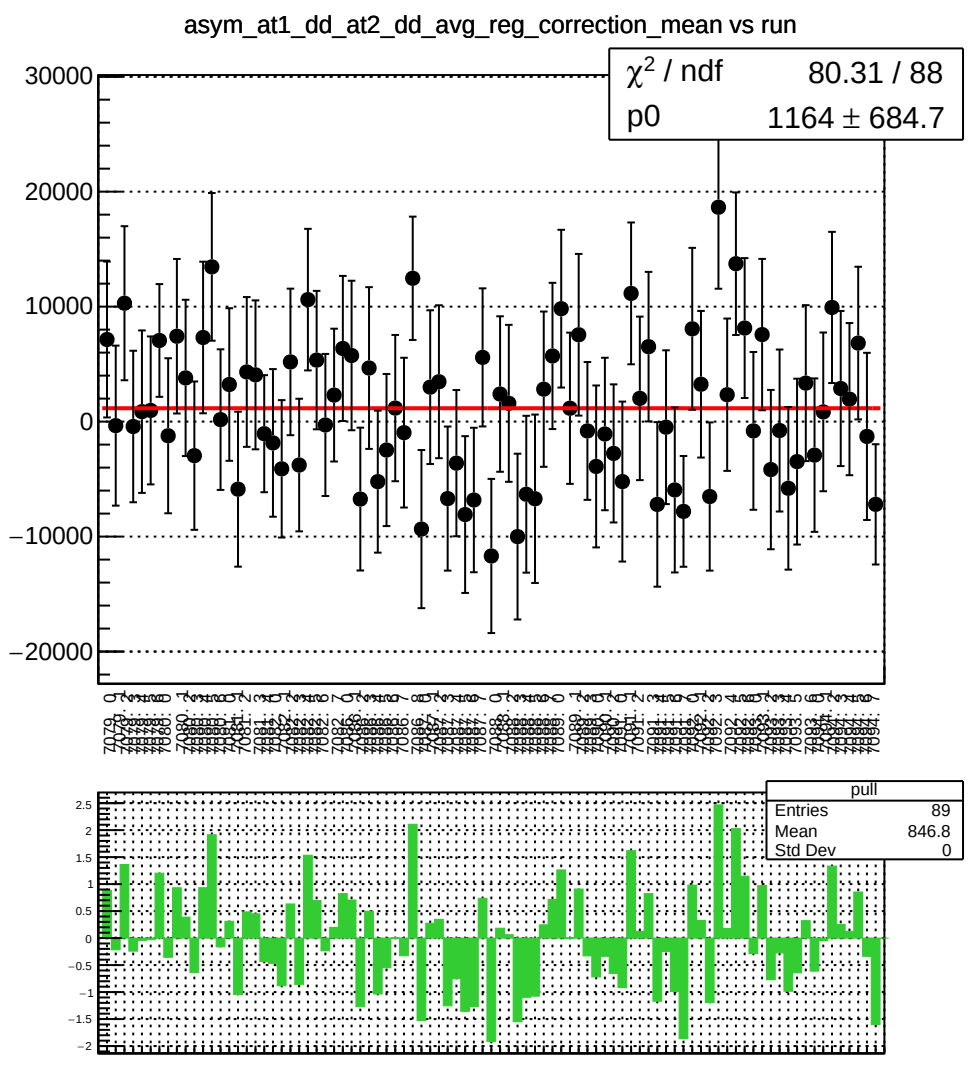

pull1D
Entries 89
Mean −0.001572
Std Dev 0.9495
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

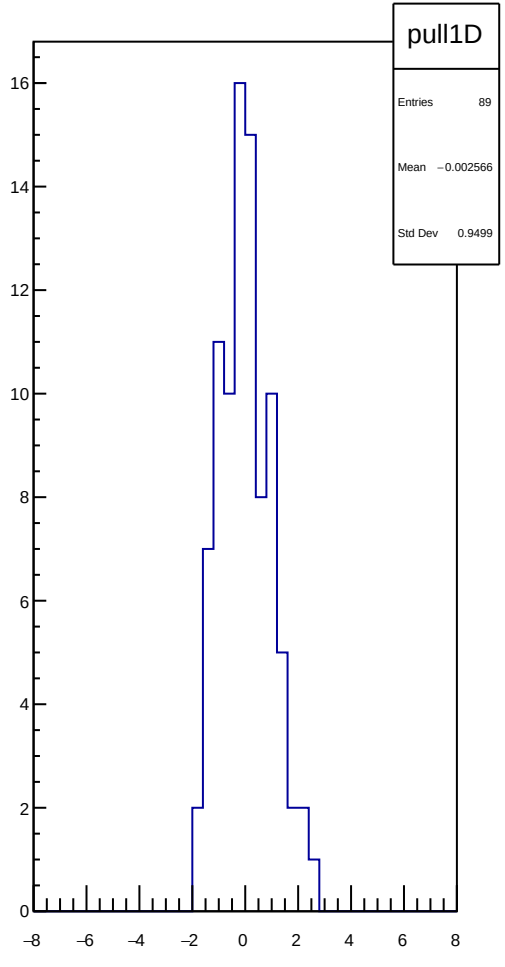

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.11e+05 / 88
p0 4.903e−12 ± 4.342e−15
24
22
20
18
16
14
12
10
8
6
4
2

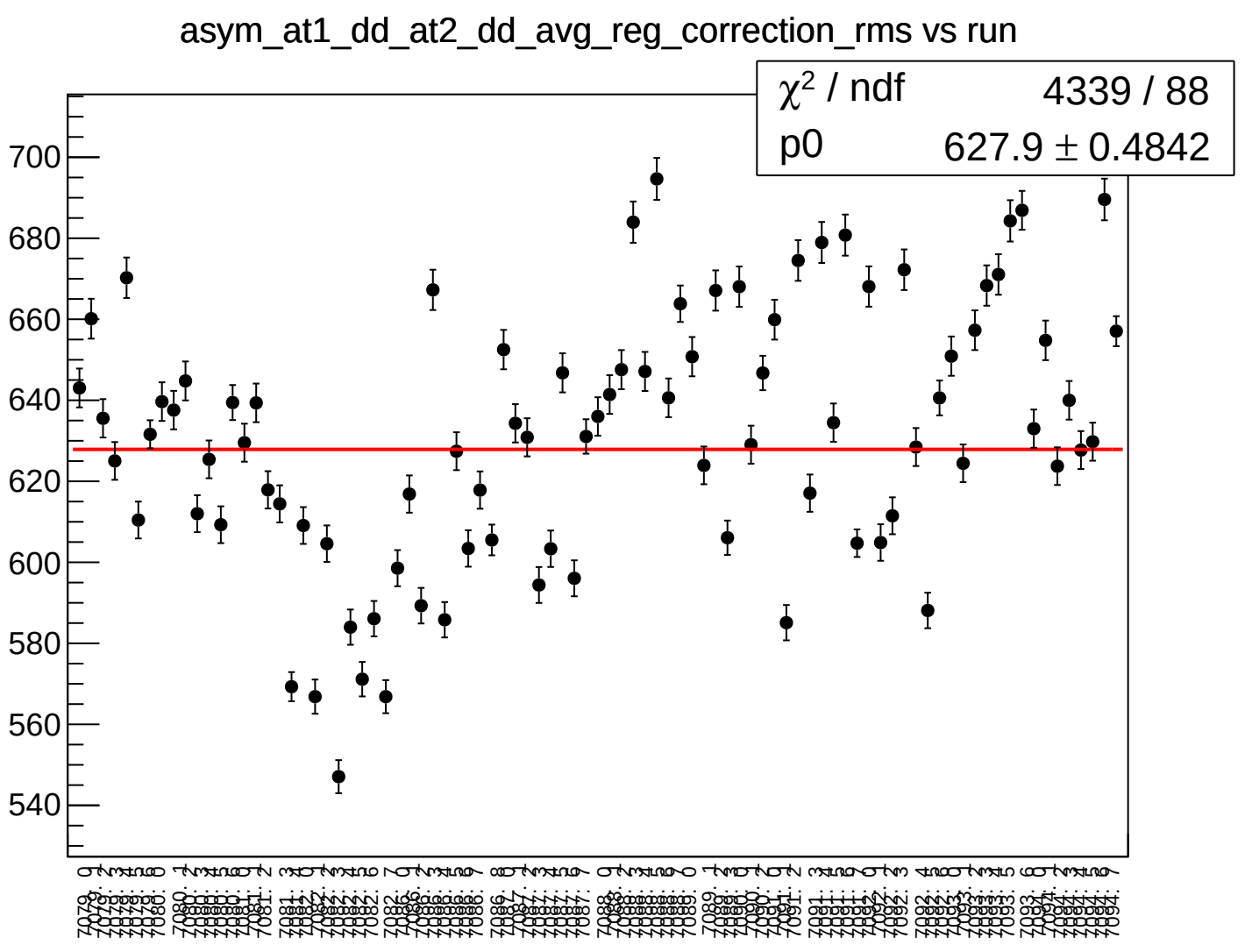

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 76.59 / 88
p0 −745.7 ± 1352
pull
Entries 89
Mean 81.43
Std Dev 0

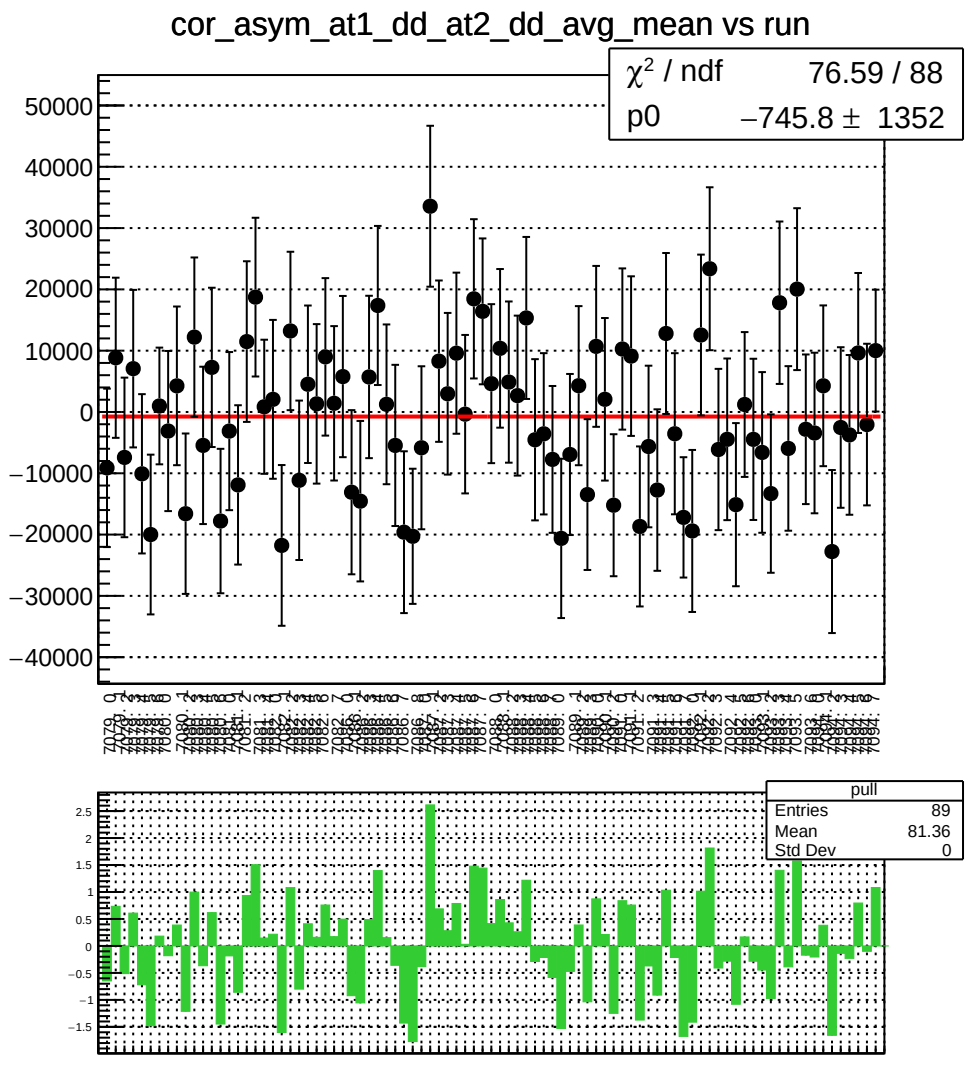

pull1D
Entries 89
Mean 0.007407
Std Dev 0.9277

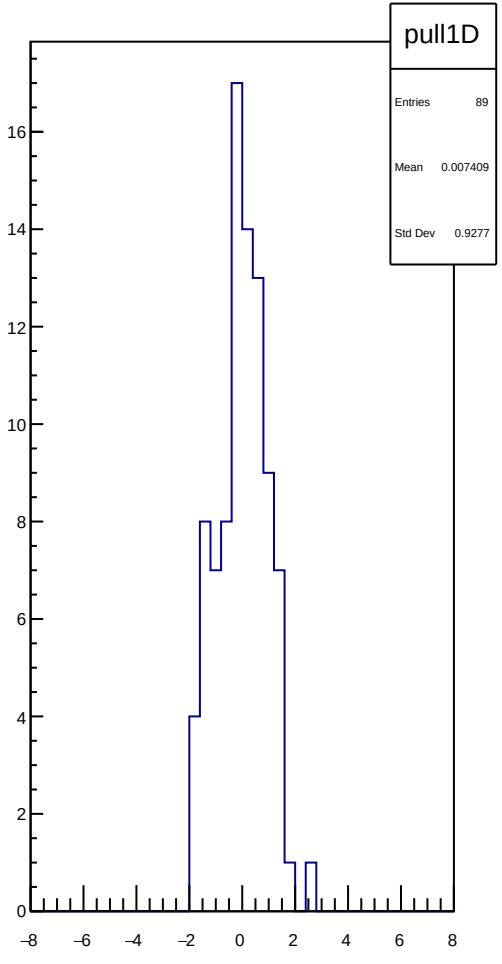

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 144.9 / 88
p0 1241 ± 0.9557
1290
1280
1270
1260
1250
1240
1230
1220
1210

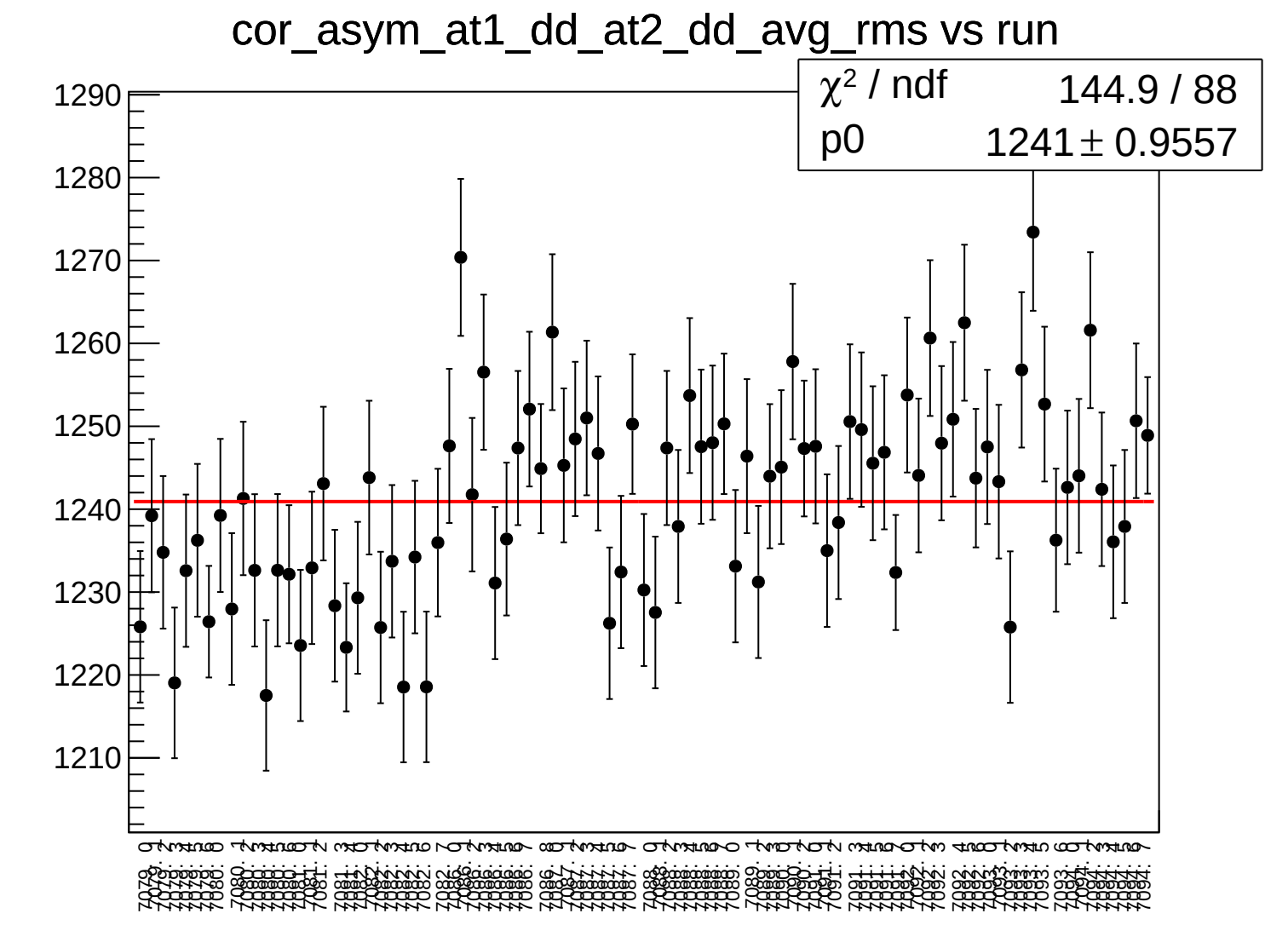

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 80.31 / 88
p0 1164 ± 684.7
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 846.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

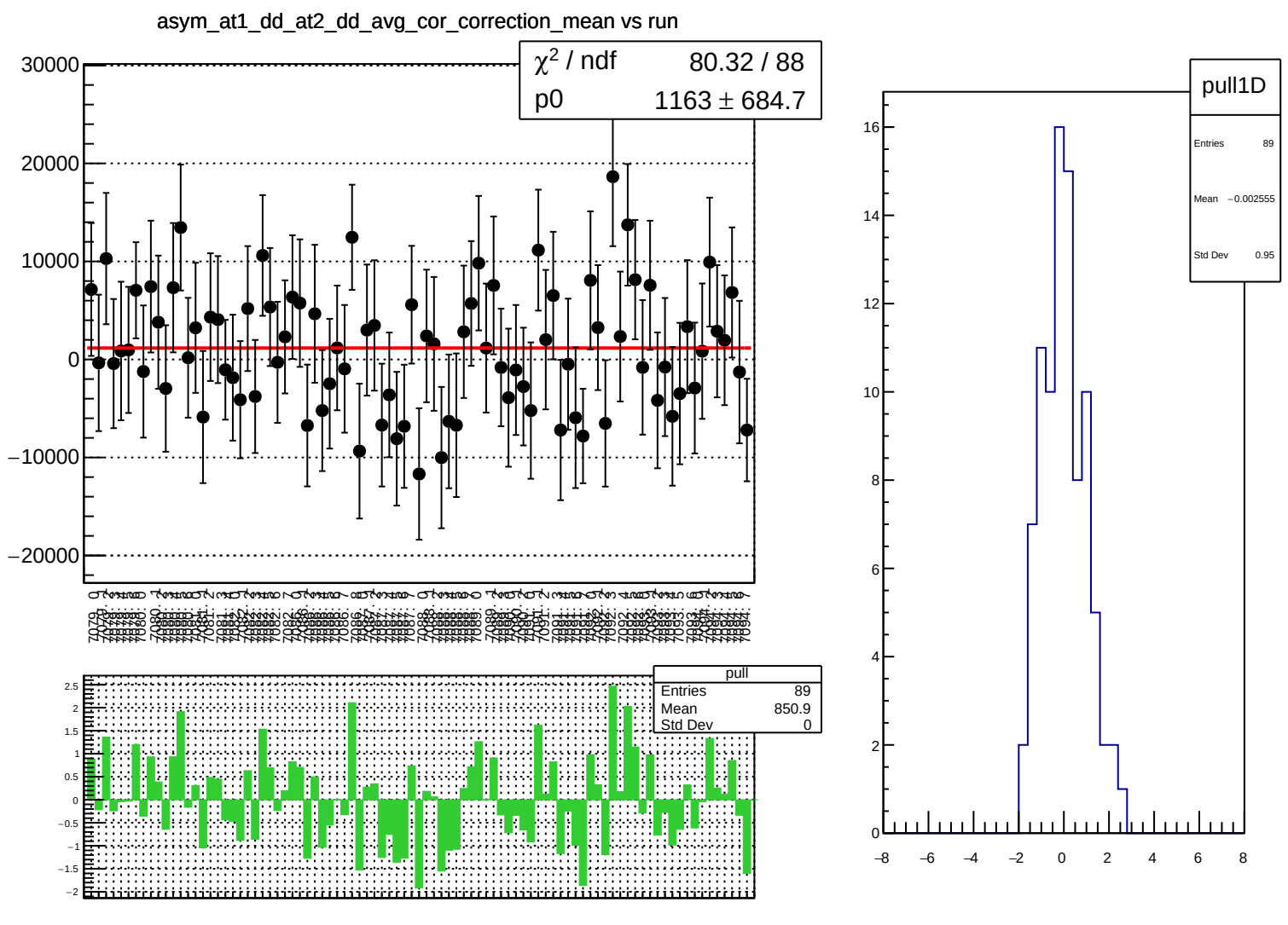

pull1D
Entries 89
Mean −0.002566
Std Dev 0.9499
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

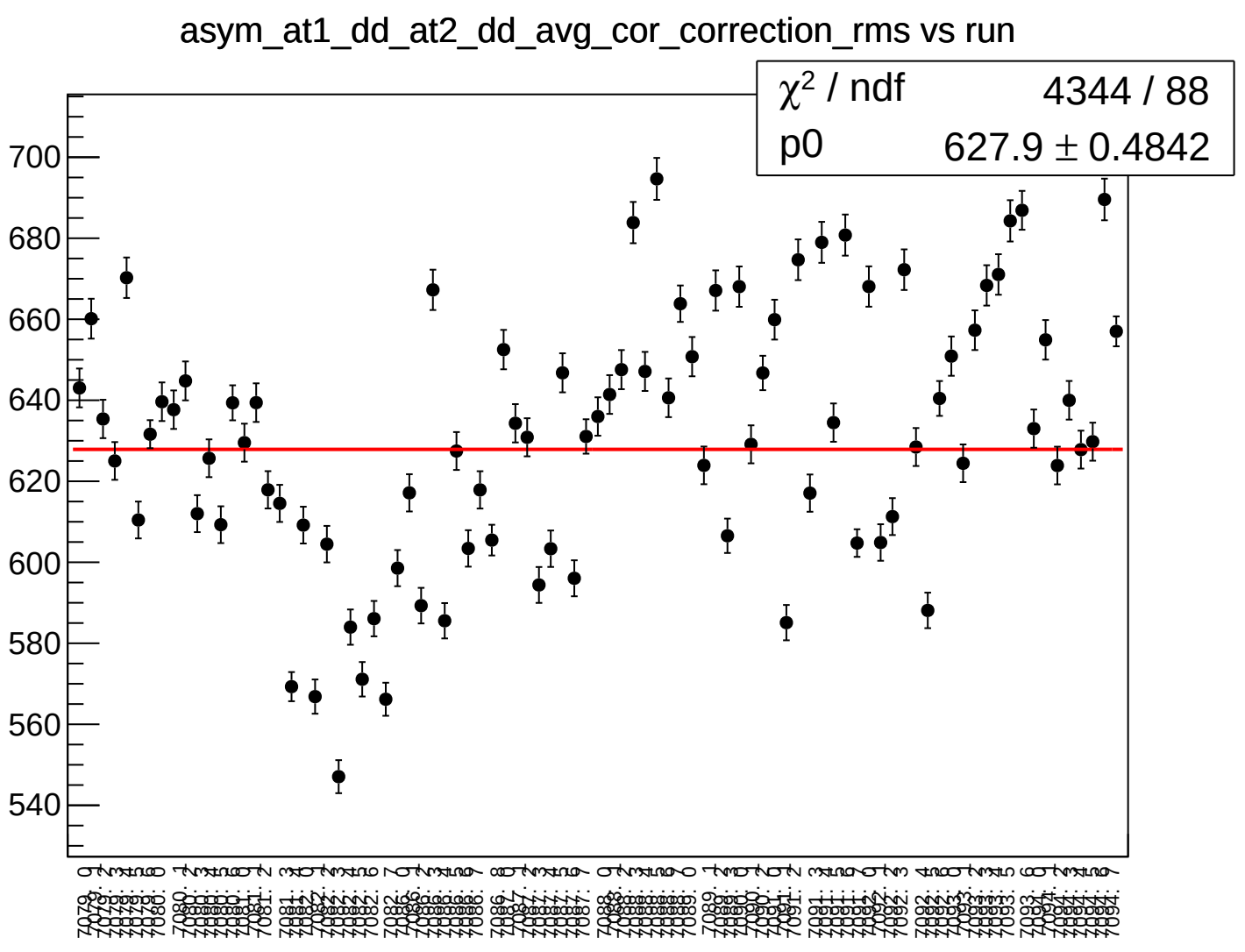

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 4339 / 88
p0 627.9 ± 0.4842
700
680
660
640
620
600
580
560
540

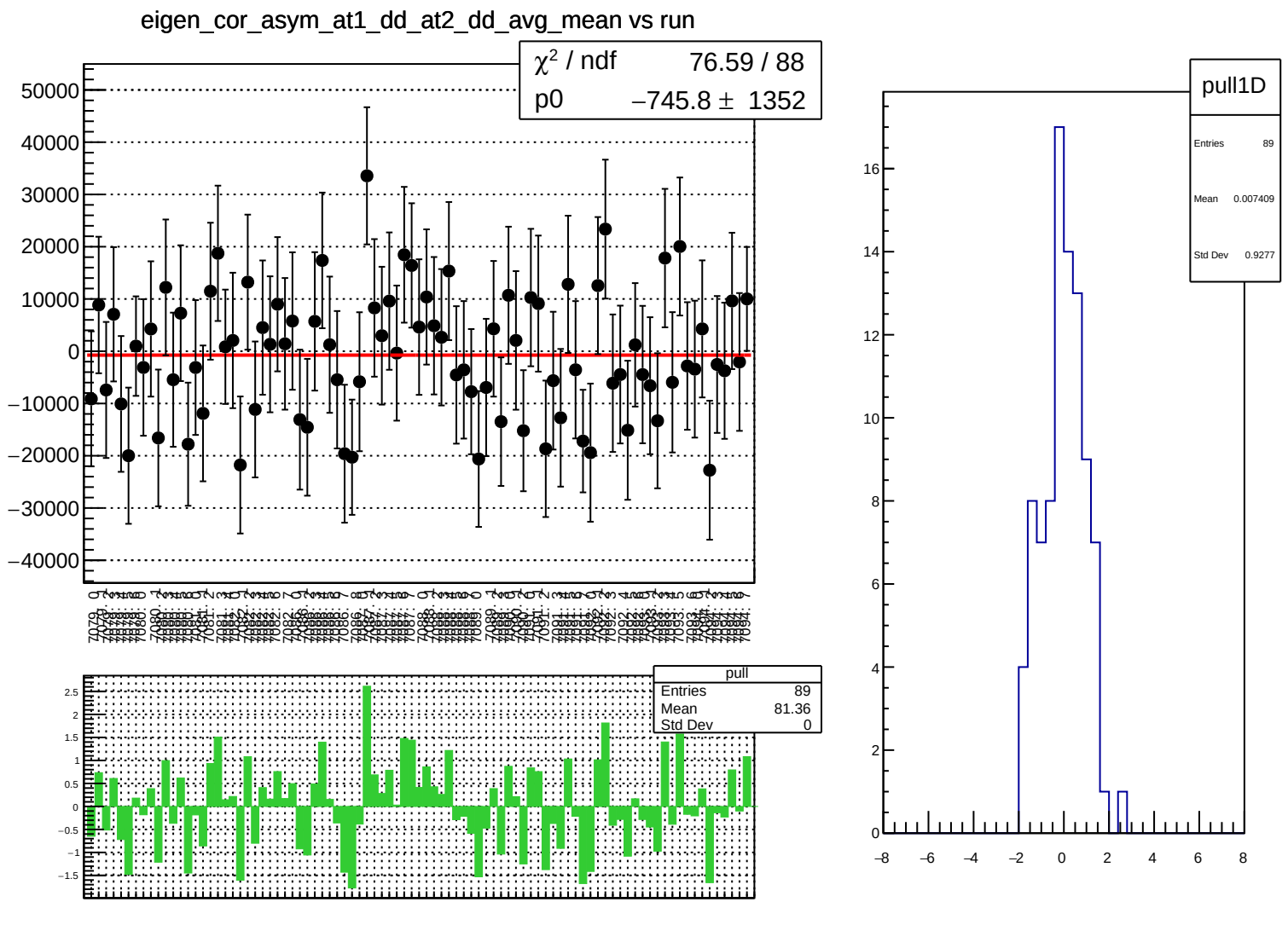

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 76.59 / 88
p0 −745.8 ± 1352
pull
Entries 89
Mean 81.36
Std Dev 0

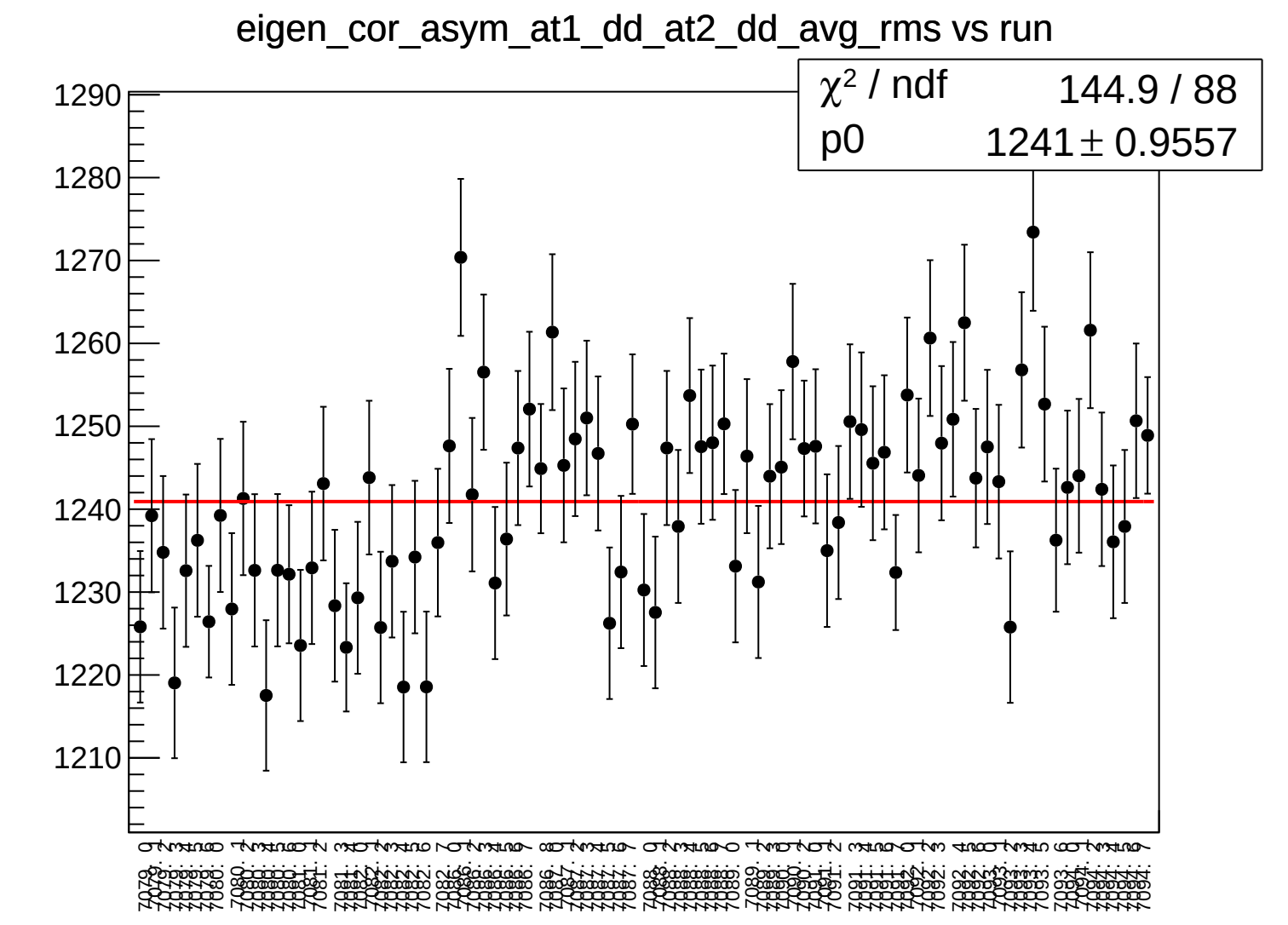

pull1D
Entries 89
Mean 0.007409
Std Dev 0.9277

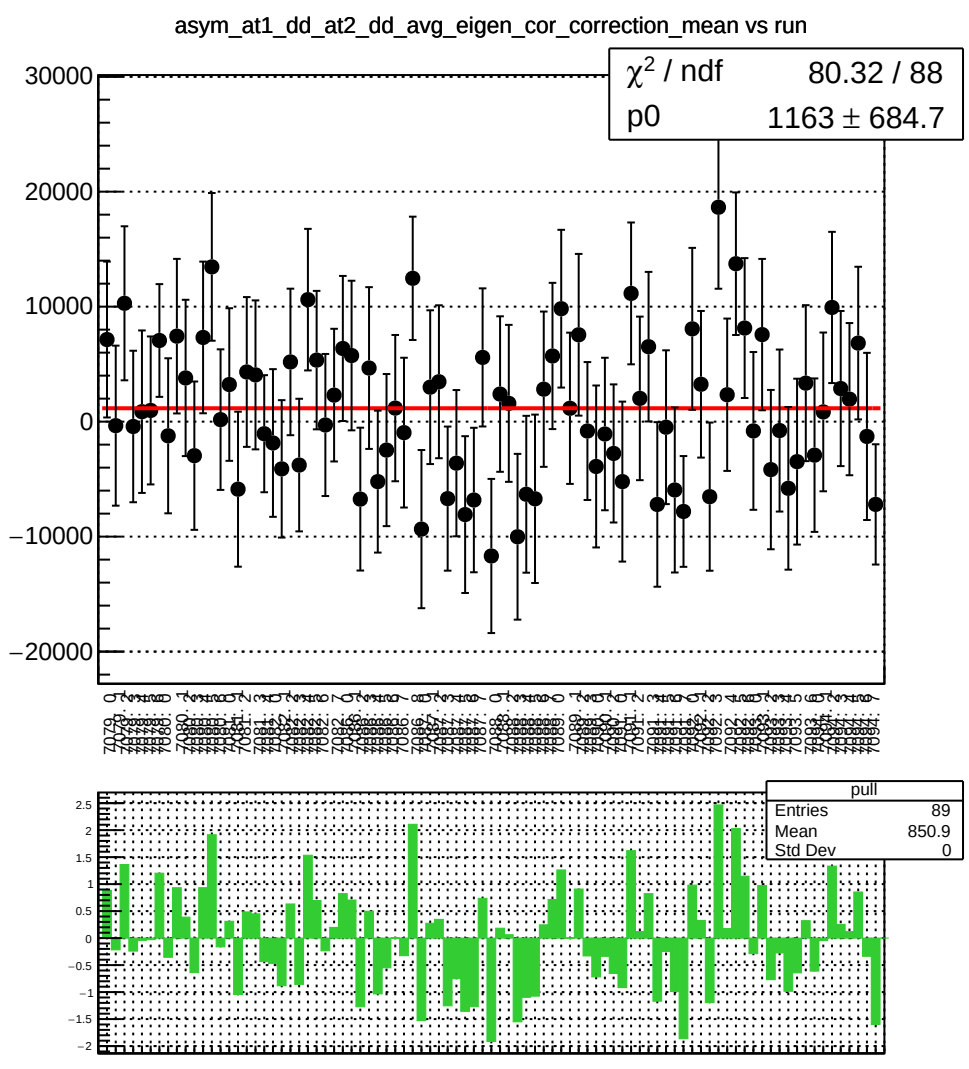

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 144.9 / 88
p0 1241 ± 0.9557
1290
1280
1270
1260
1250
1240
1230
1220
1210

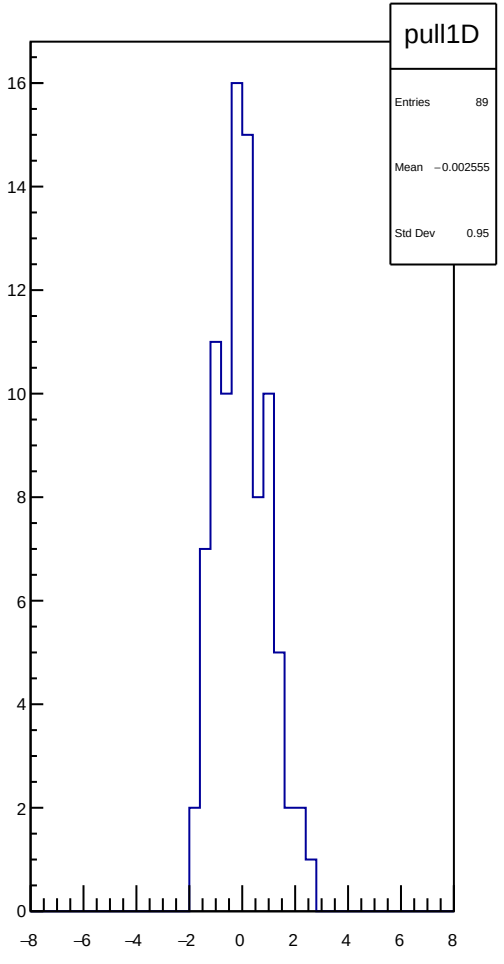

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 80.32 / 88
p0 1163 ± 684.7
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 850.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.002555
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

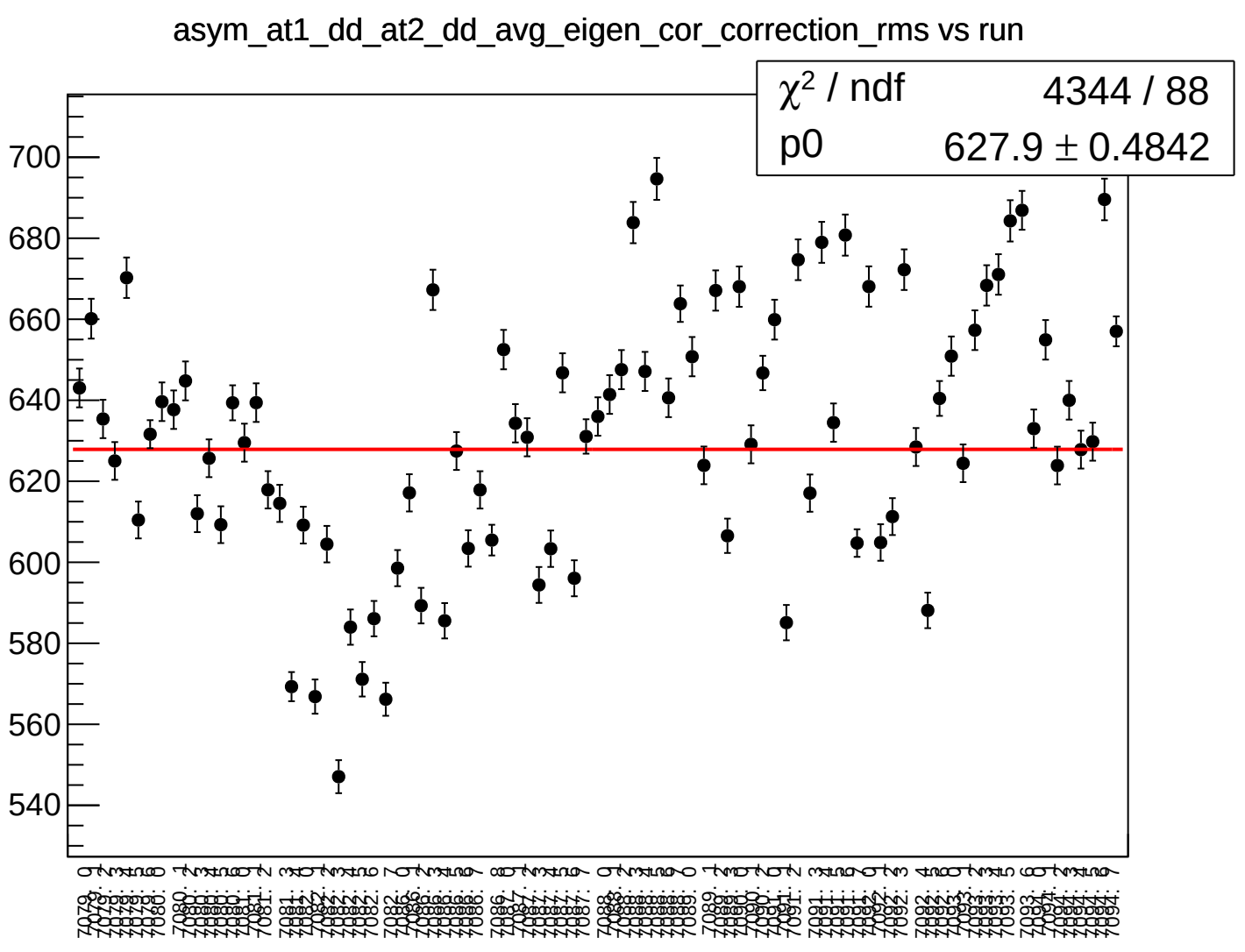

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 4344 / 88
p0 627.9 ± 0.4842
700
680
660
640
620
600
580
560
540

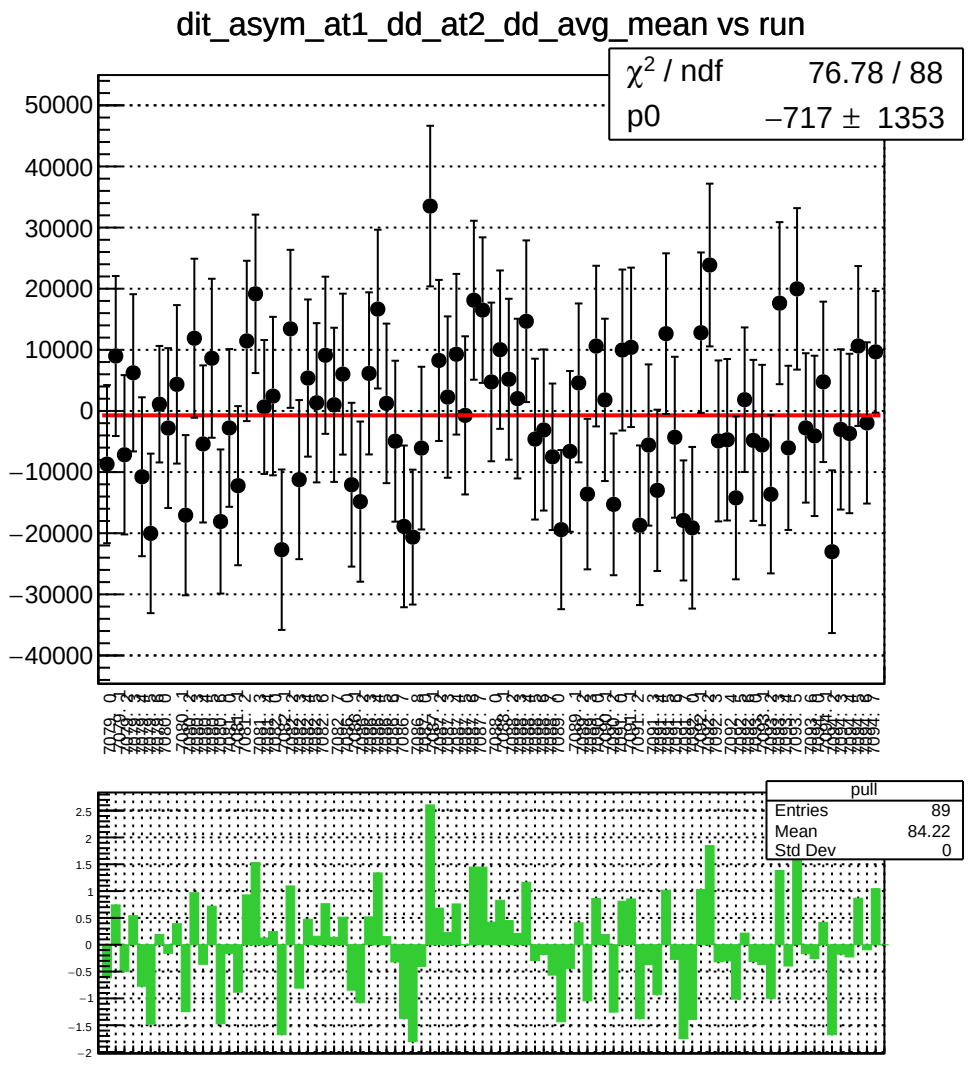

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 76.59 / 88
p0 −745.8 ± 1352
pull
Entries 89
Mean 81.36
Std Dev 0
pull1D
Entries 89
Mean 0.007409
Std Dev 0.9277

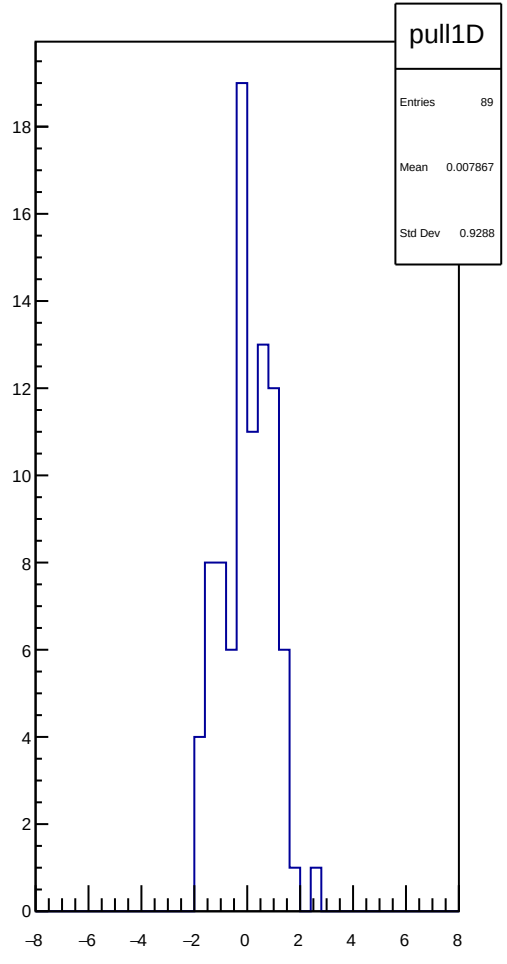

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 144.9 / 88
p0 1241 ± 0.9557
1290
1280
1270
1260
1250
1240
1230
1220
1210

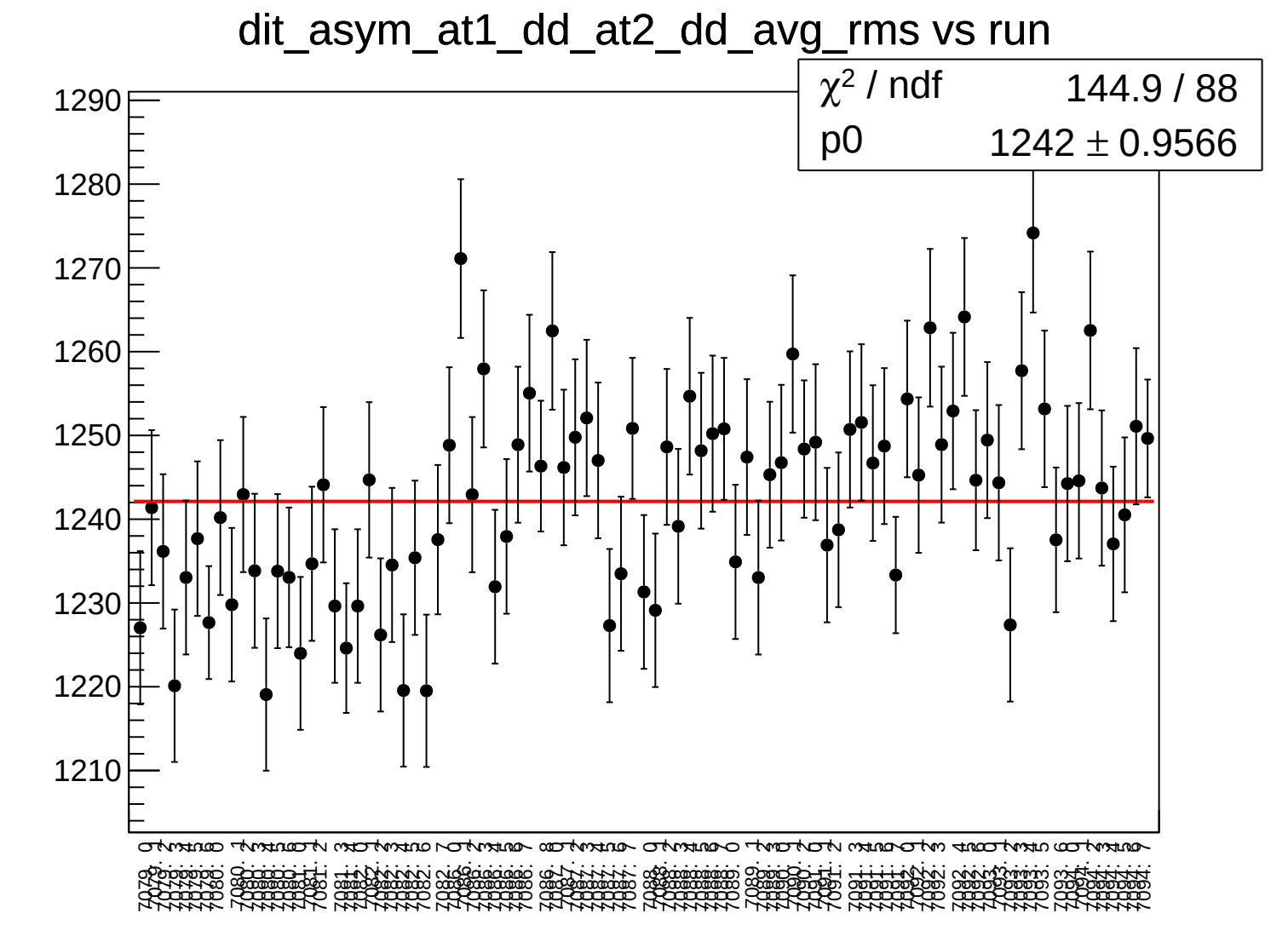

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.32 / 88
p0 1163 ± 684.7
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 850.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

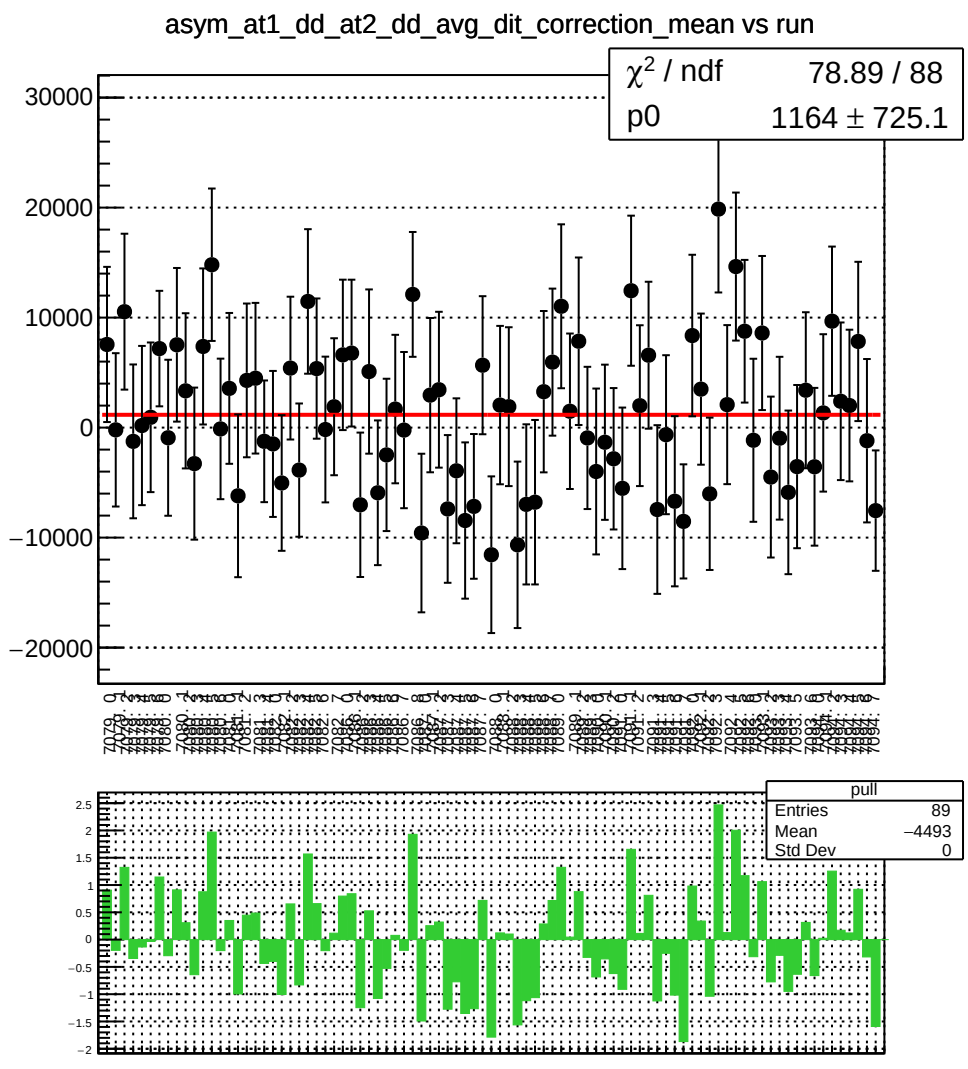

pull1D
Entries 89
Mean −0.002555
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

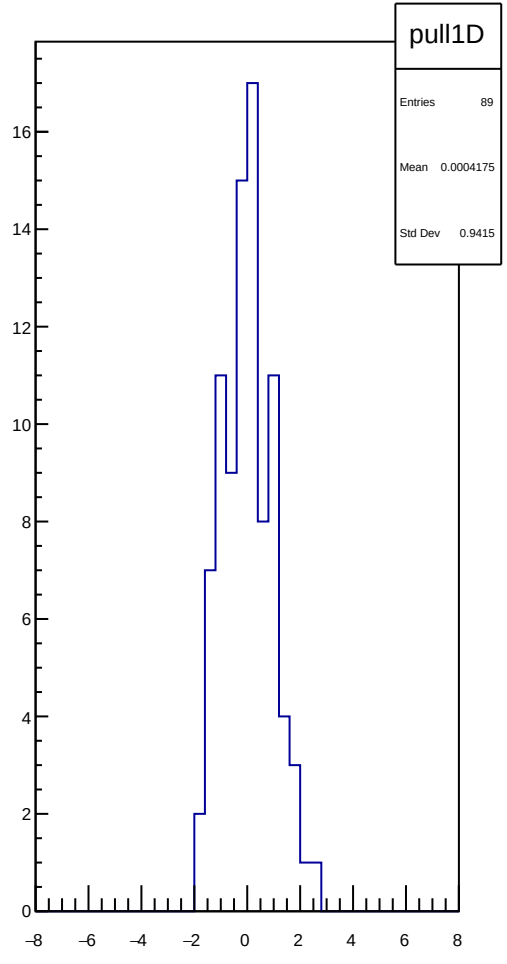

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4344 / 88
p0 627.9 ± 0.4842
700
680
660
640
620
600
580
560
540

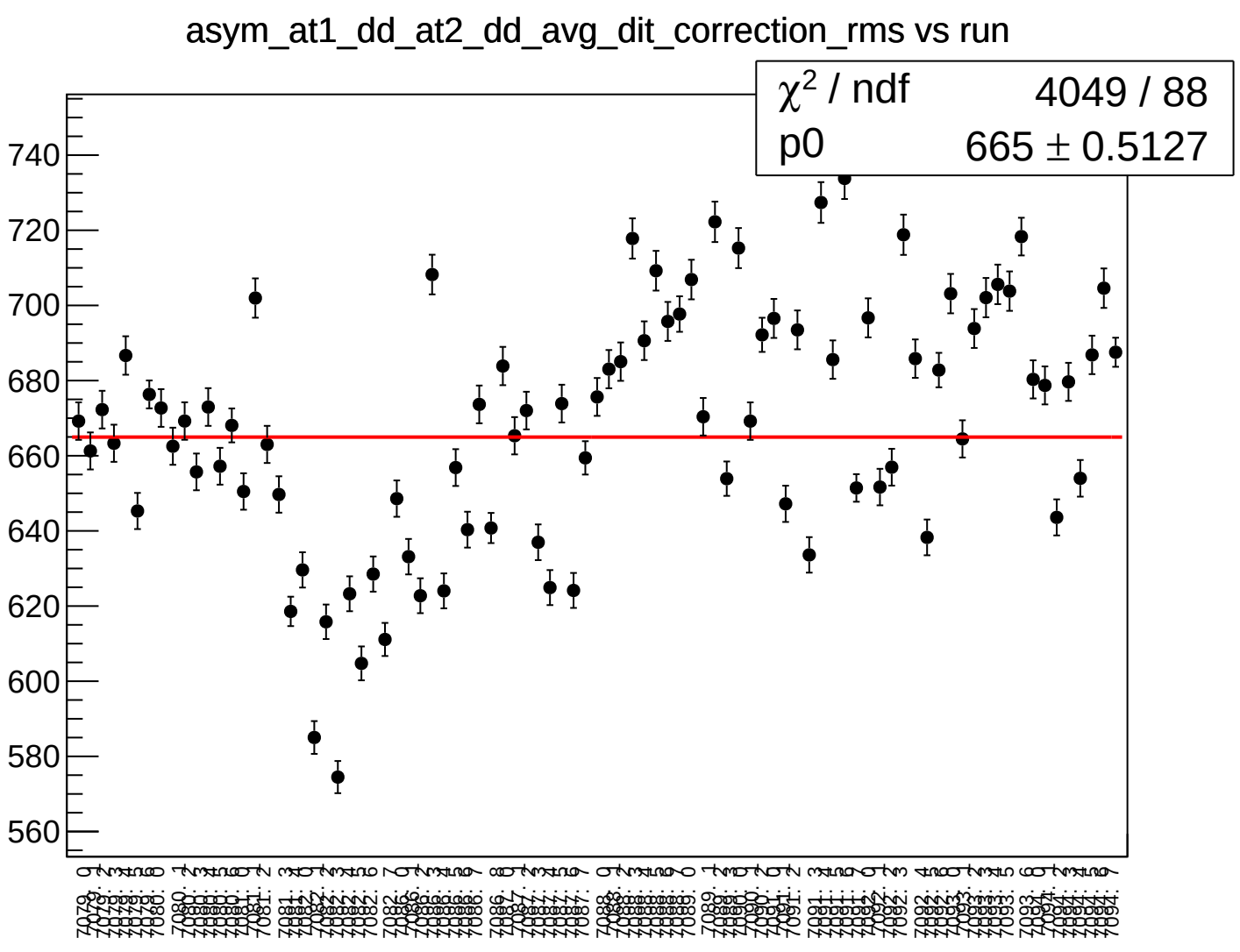

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 76.78 / 88
p0 −717 ± 1353
pull
Entries 89
Mean 84.22
Std Dev 0

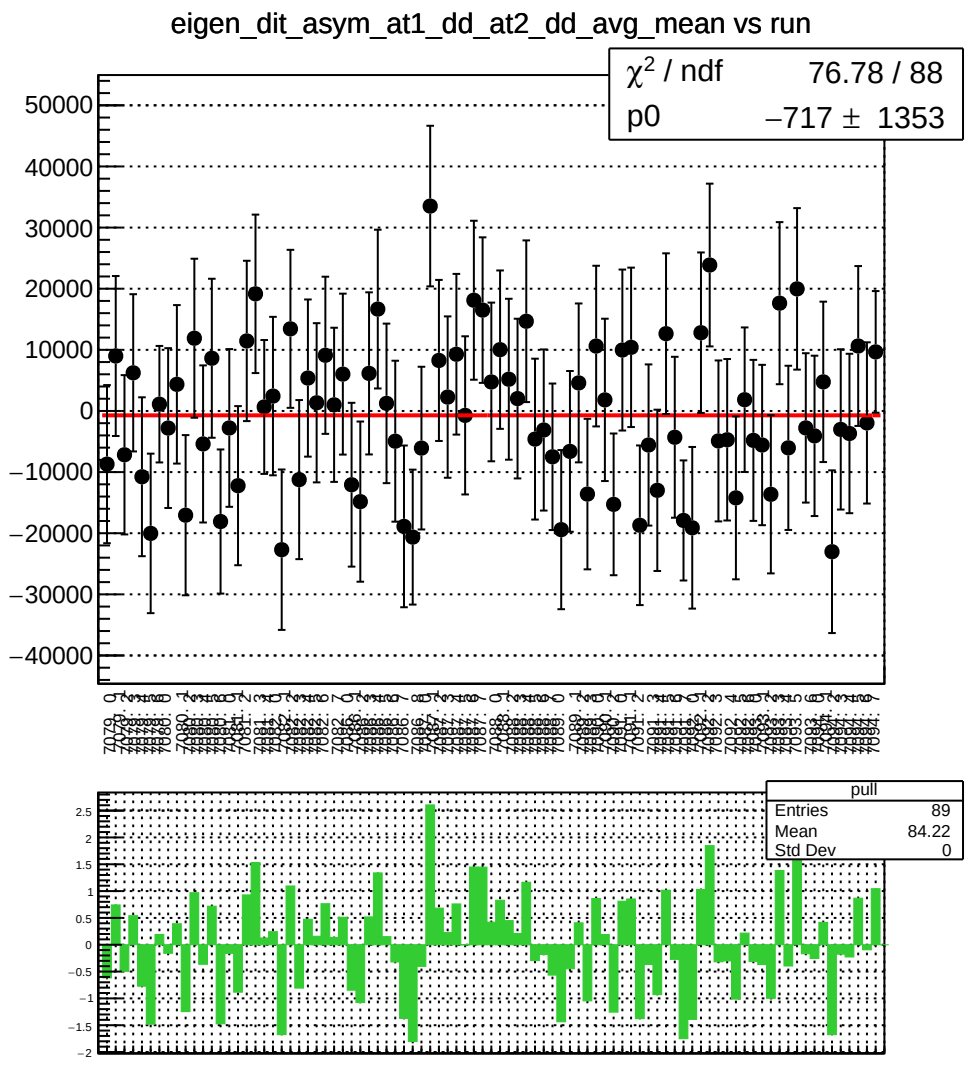

pull1D
Entries 89
Mean 0.007867
Std Dev 0.9288

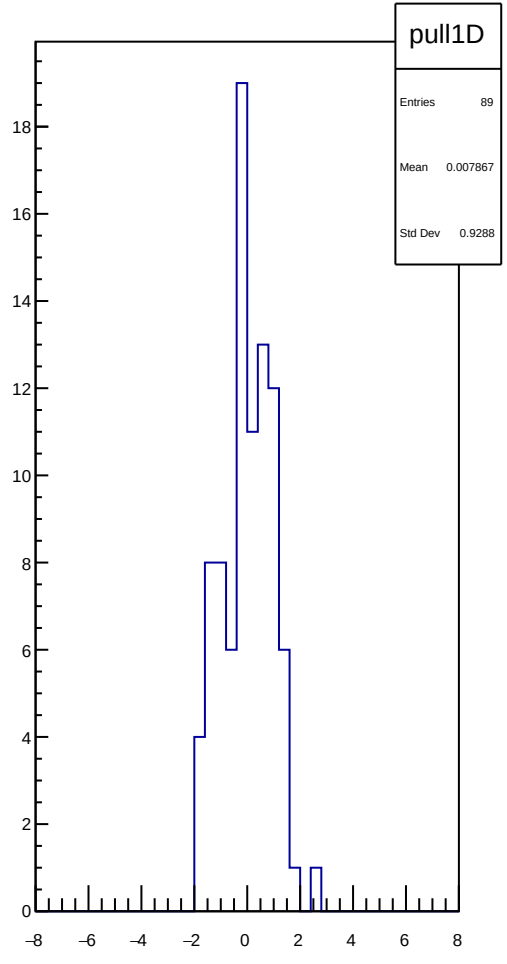

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 144.9 / 88
p0 1242 ± 0.9566
1290
1280
1270
1260
1250
1240
1230
1220
1210

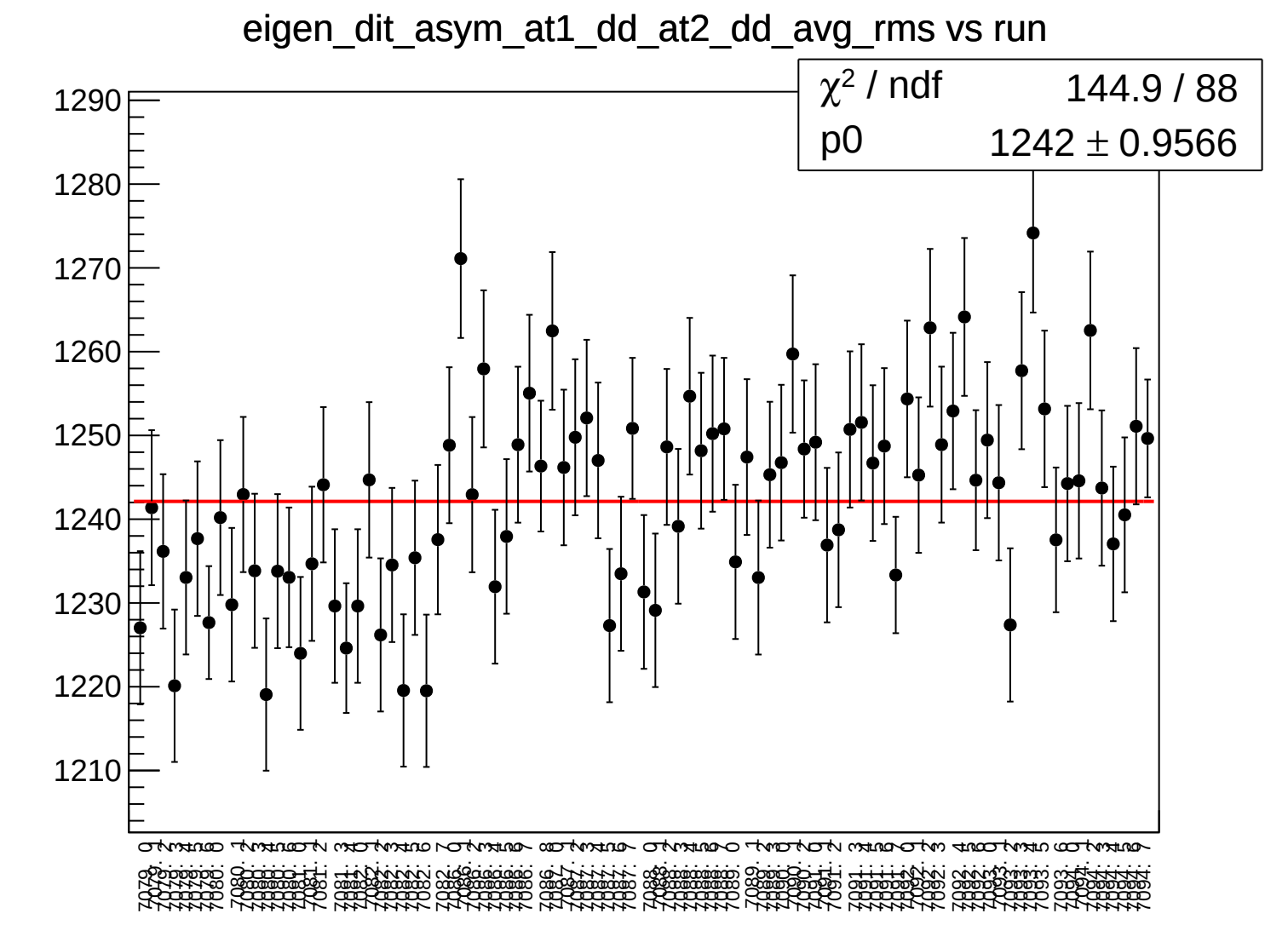

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 78.89 / 88
p0 1164 ± 725.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −4493
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

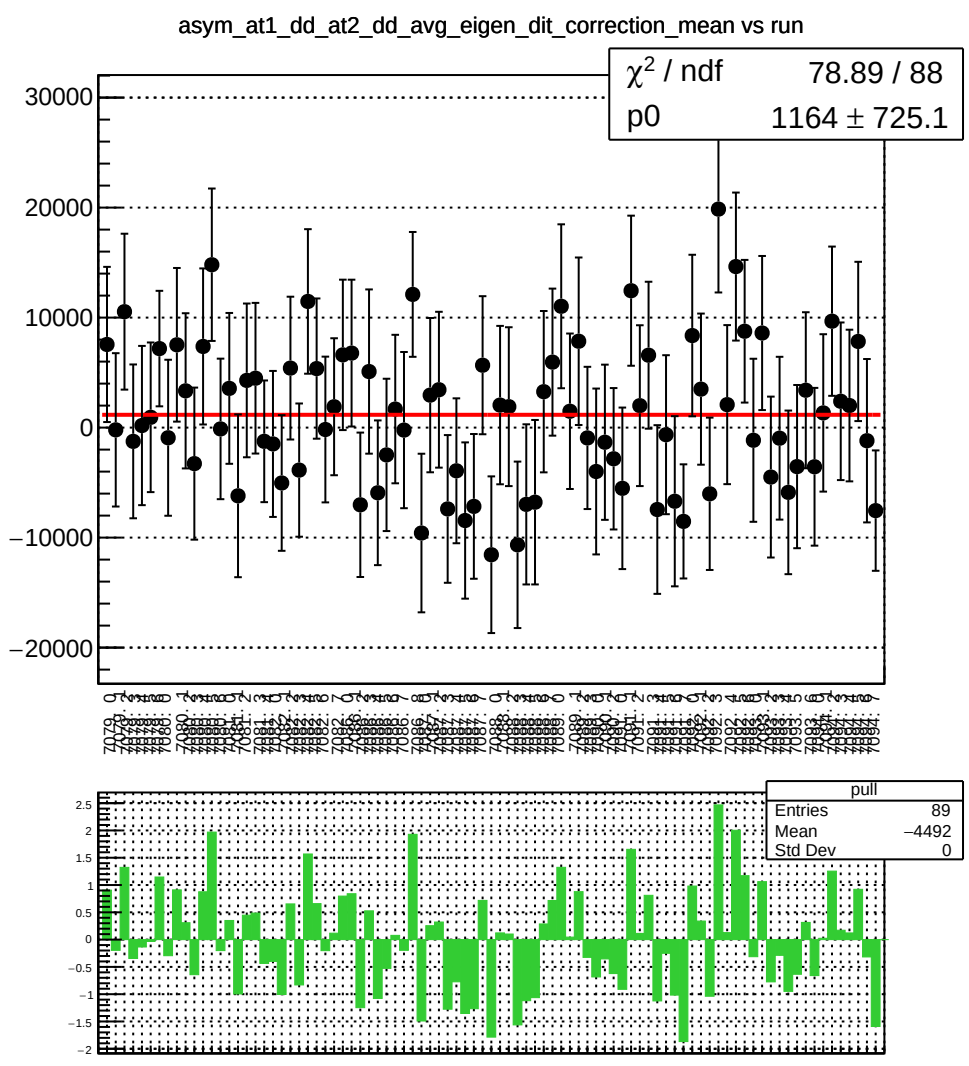

pull1D
Entries 89
Mean 0.0004175
Std Dev 0.9415
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

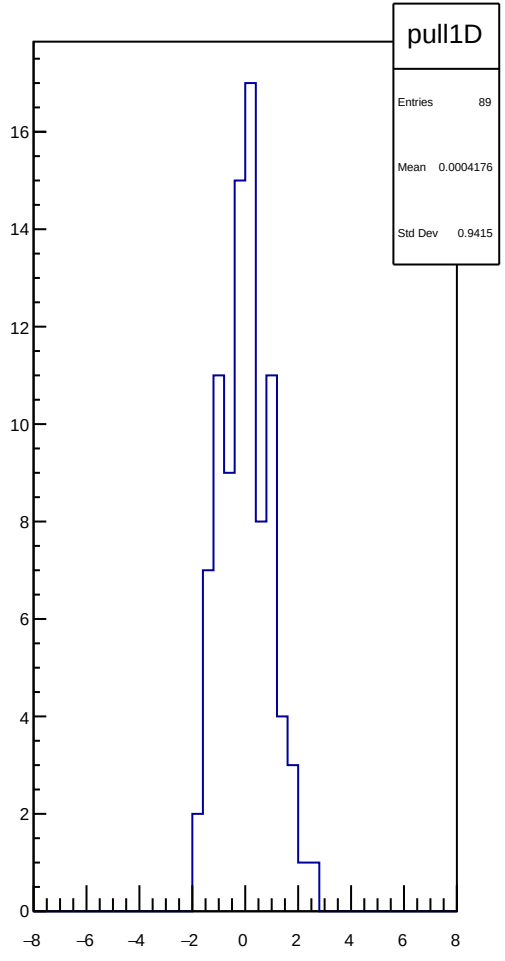

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 4049 / 88
p0 665 ± 0.5127
740
720
700
680
660
640
620
600
580
560

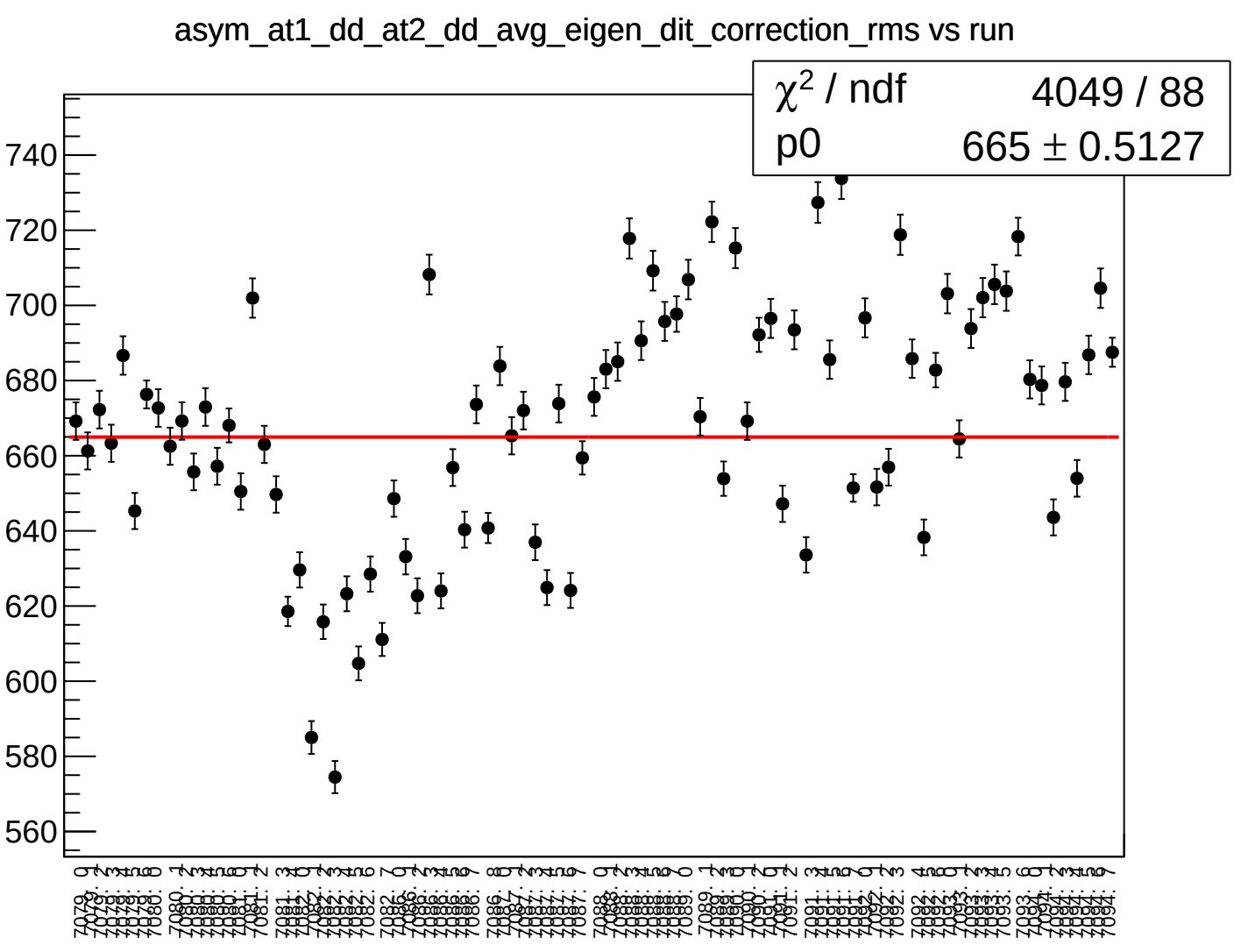

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 76.78 / 88
p0 −717 ± 1353
pull
Entries 89
Mean 84.22
Std Dev 0

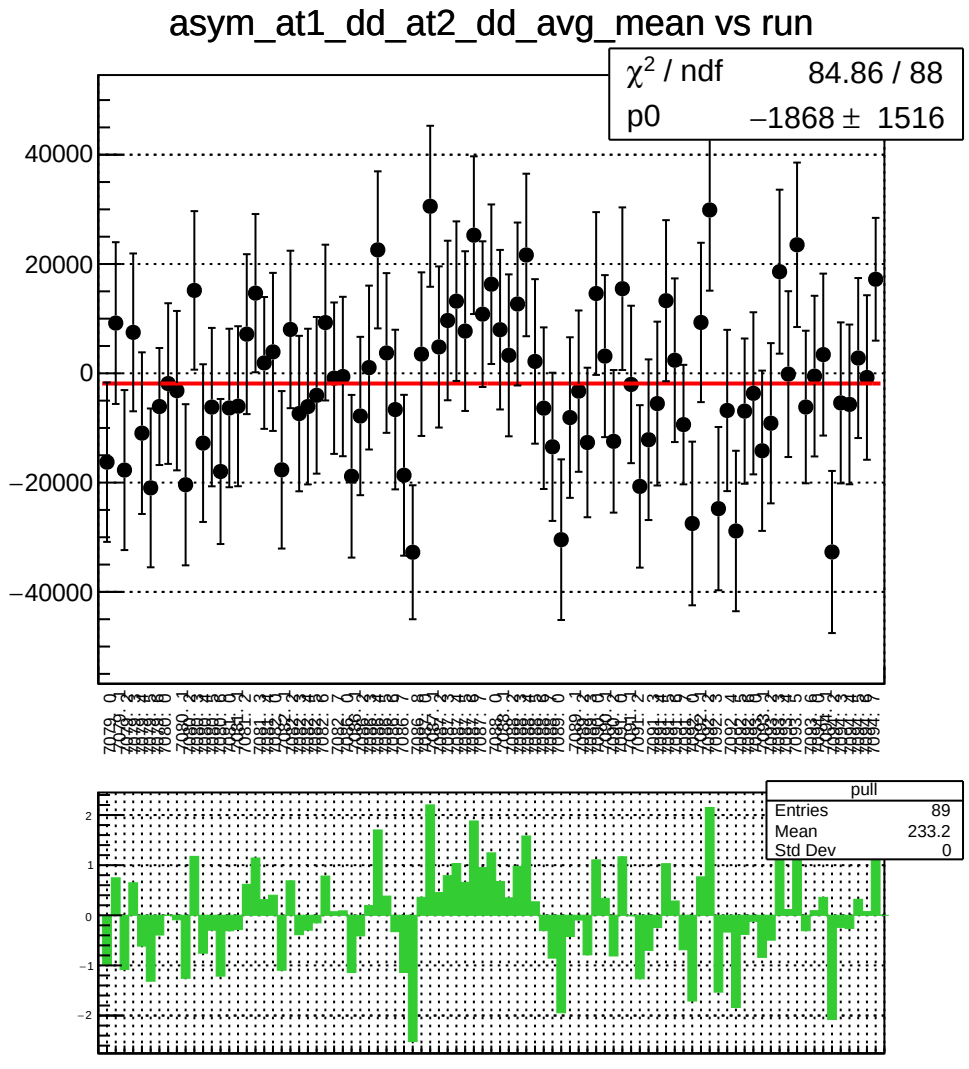

pull1D
Entries 89
Mean 0.007867
Std Dev 0.9288

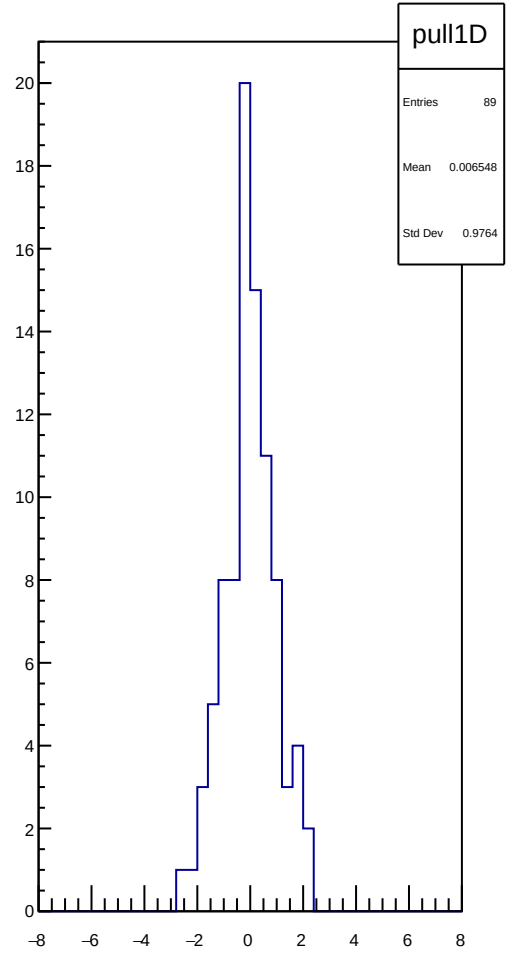

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 144.9 / 88
p0 1242 ± 0.9566
1290
1280
1270
1260
1250
1240
1230
1220
1210

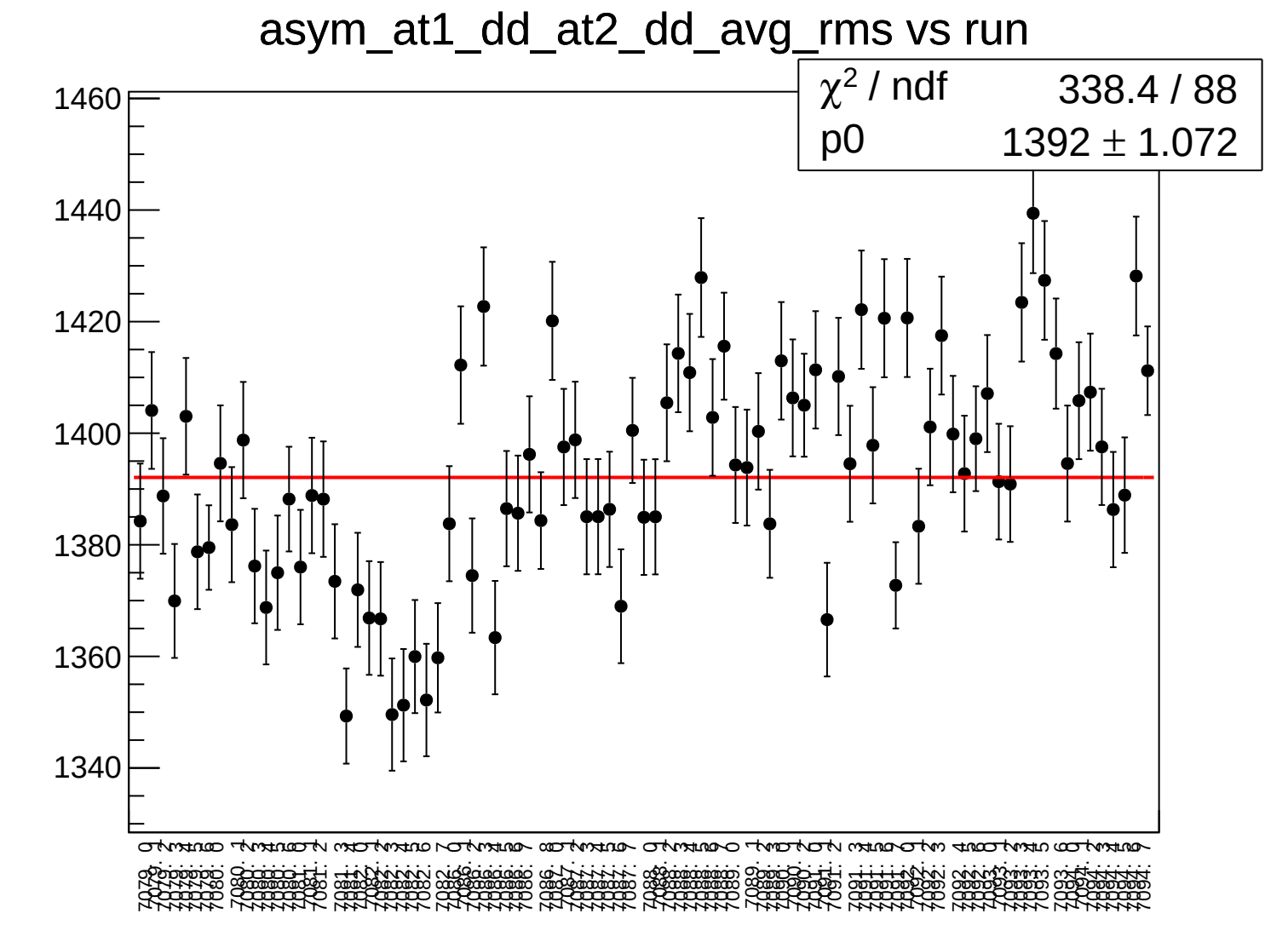

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.89 / 88
p0 1164 ± 725.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −4492
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

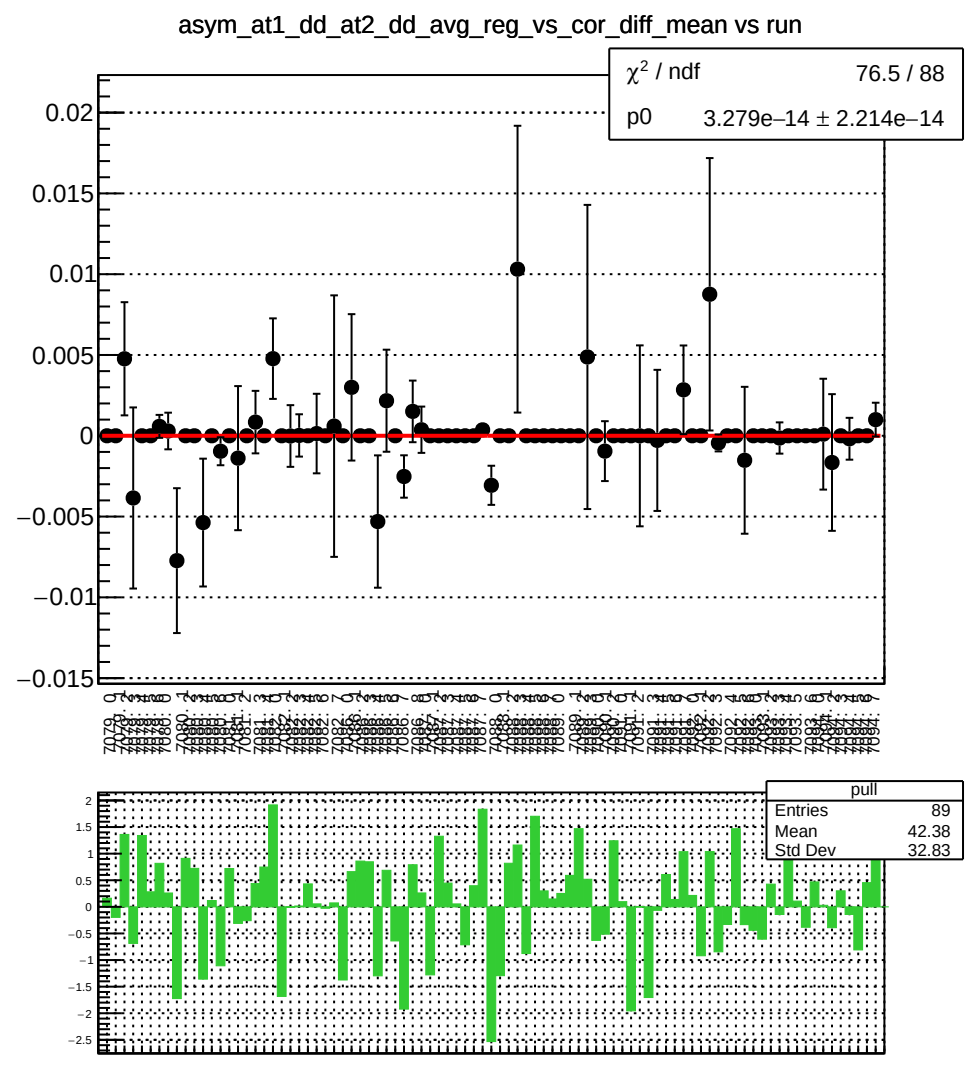

pull1D
Entries 89
Mean 0.0004176
Std Dev 0.9415
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

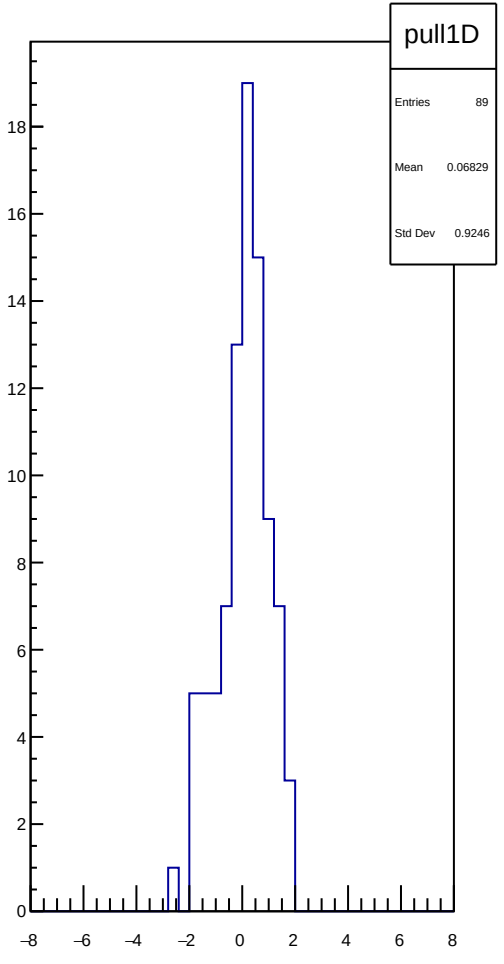

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4049 / 88
p0 665 ± 0.5127
740
720
700
680
660
640
620
600
580
560

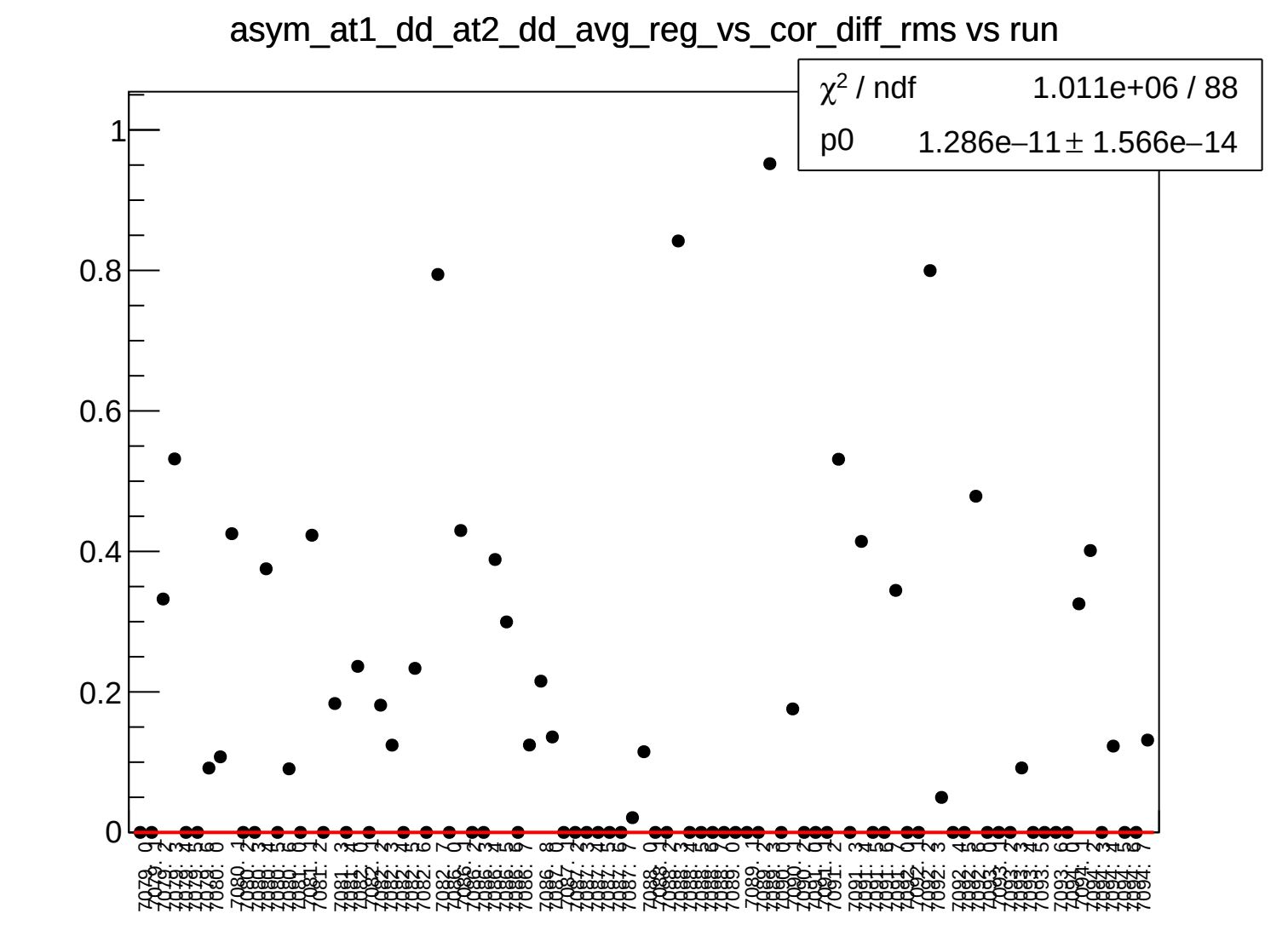

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.86 / 88
p0 −1868 ± 1516
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 233.2
Std Dev 0
2
1
0
−1
−2

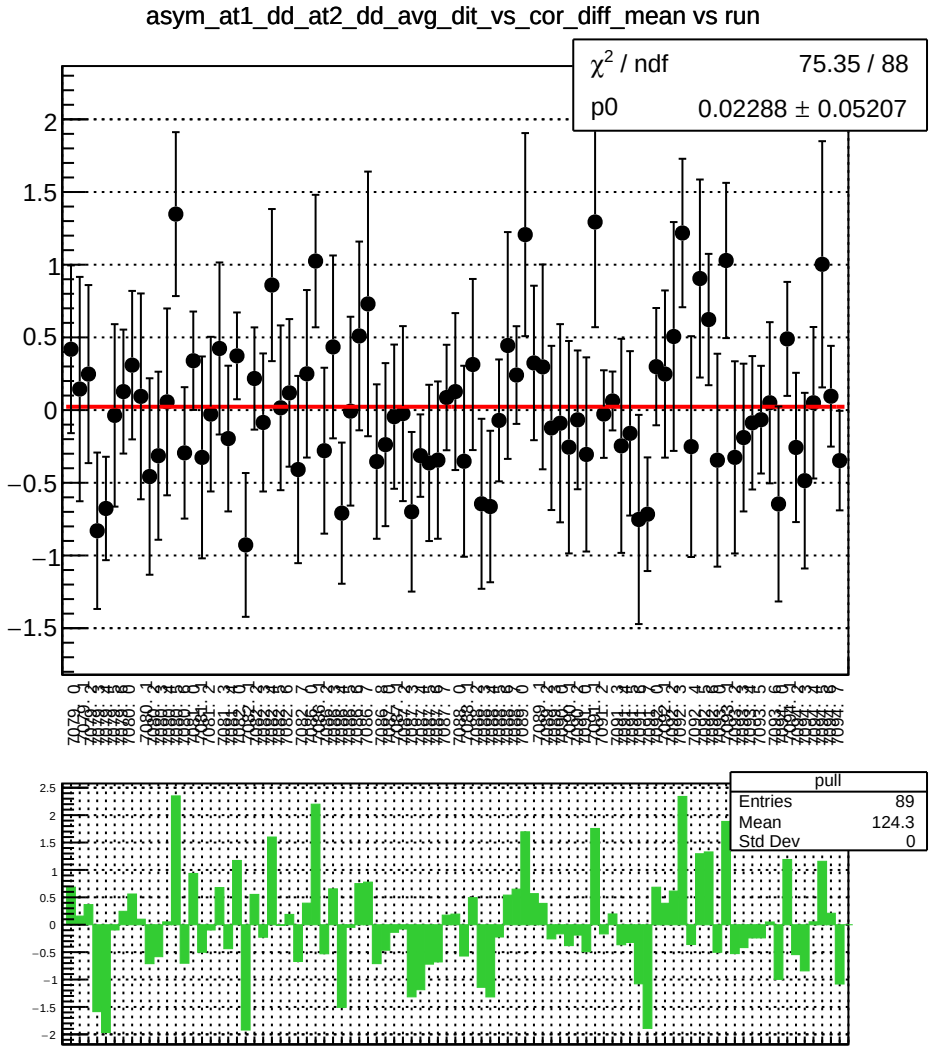

pull1D
Entries 89
Mean 0.006548
Std Dev 0.9764
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

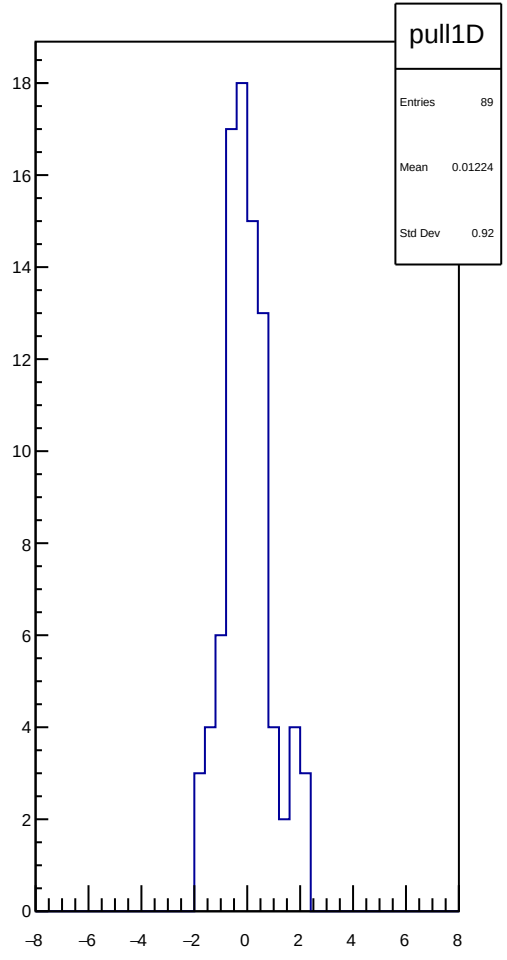

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 338.4 / 88
p0 1392 ± 1.072
1460
1440
1420
1400
1380
1360
1340

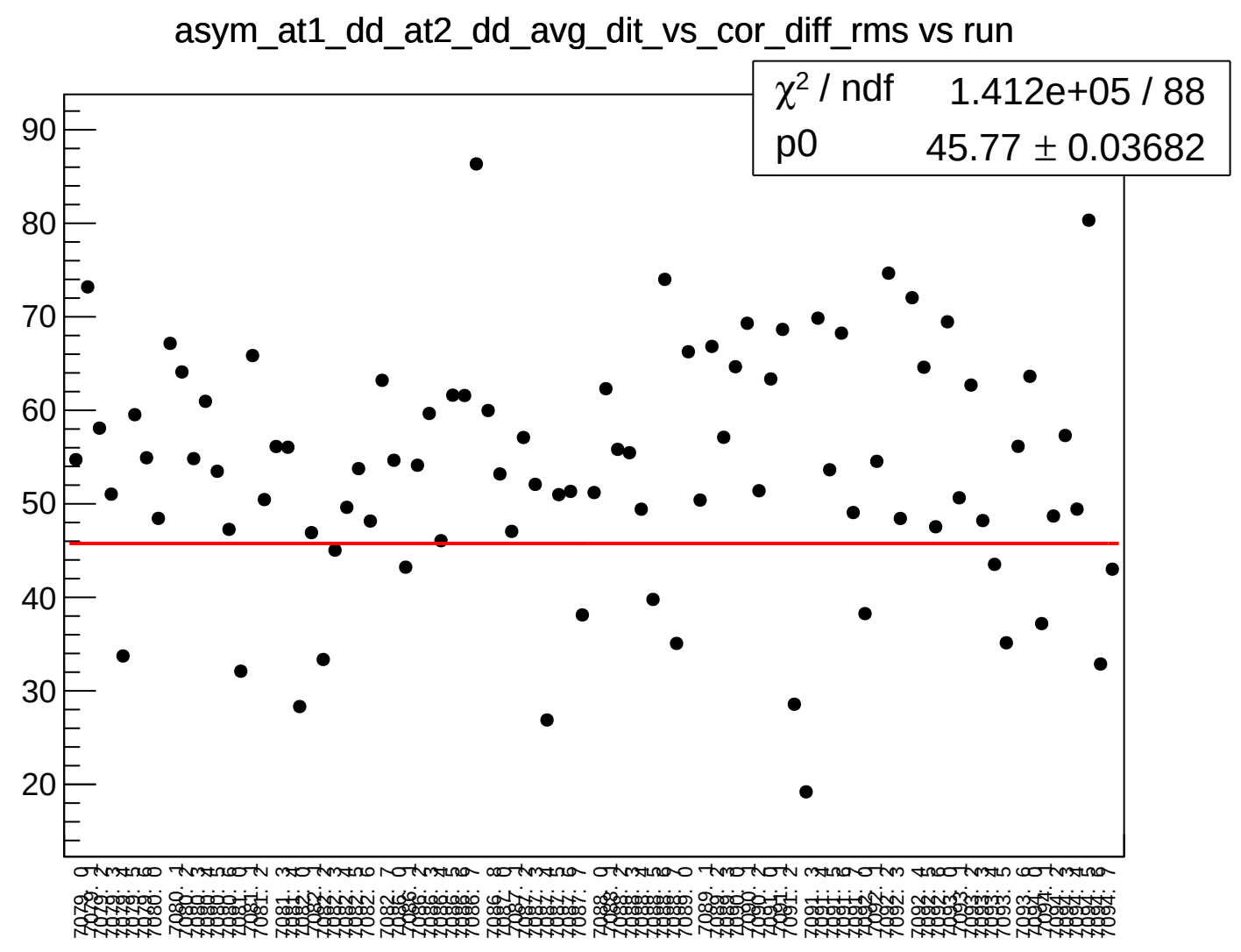

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.5 / 88
p0 3.279e−14 ± 2.214e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 42.38
Std Dev 32.83
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

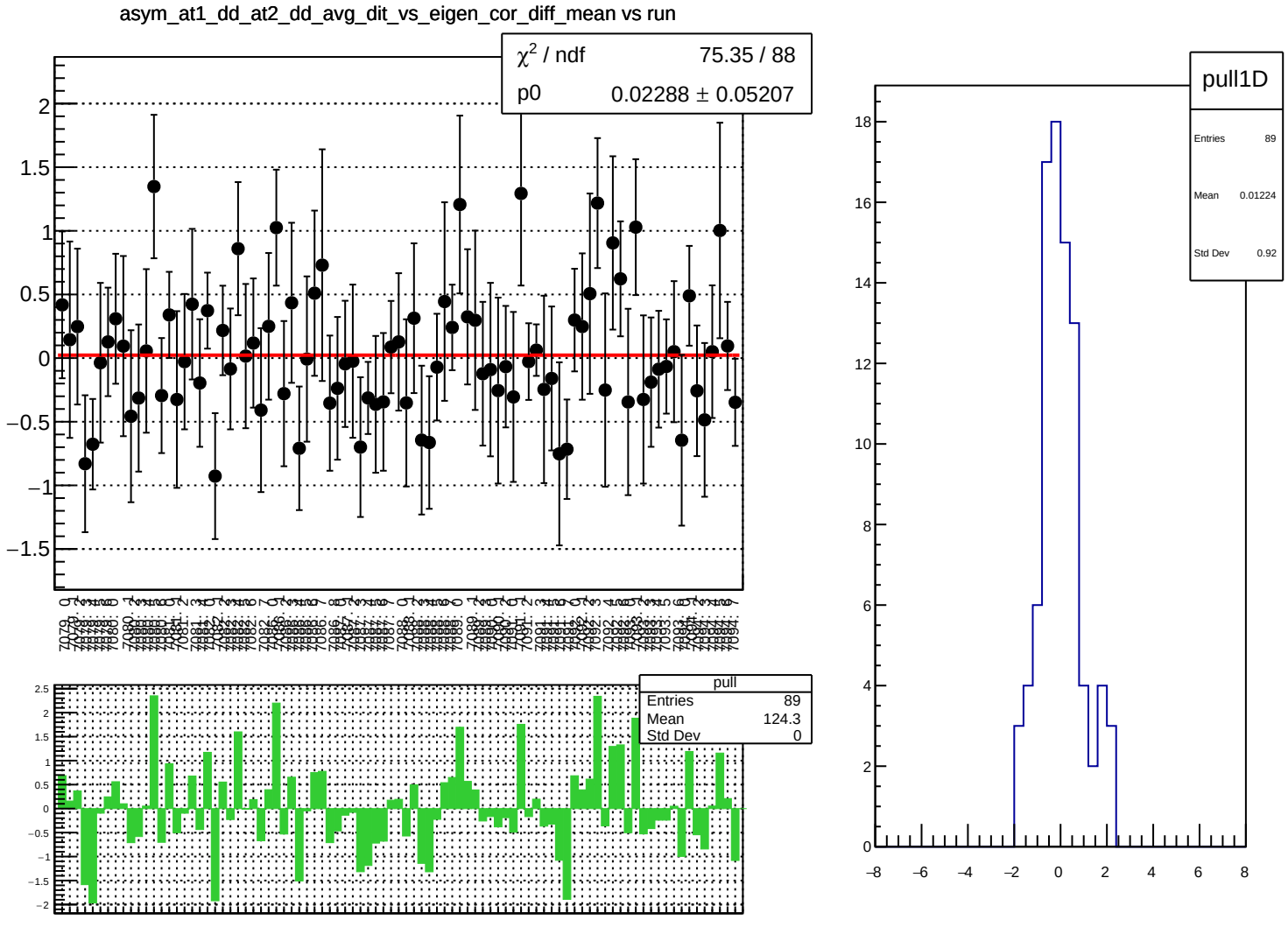

pull1D
Entries 89
Mean 0.06829
Std Dev 0.9246
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

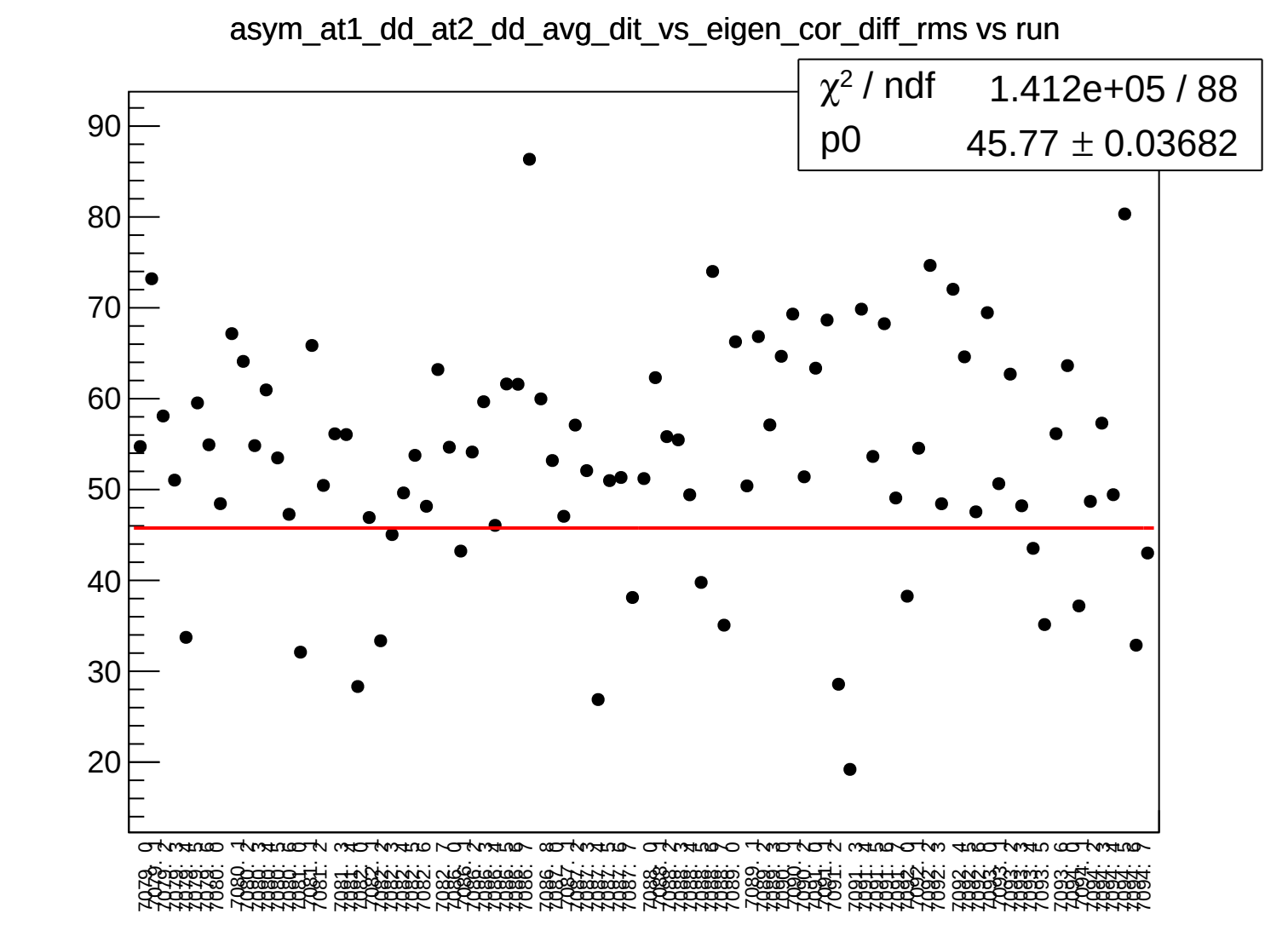

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 88
p0 1.286e−11 ± 1.566e−14
1
0.8
0.6
0.4
0.2
0

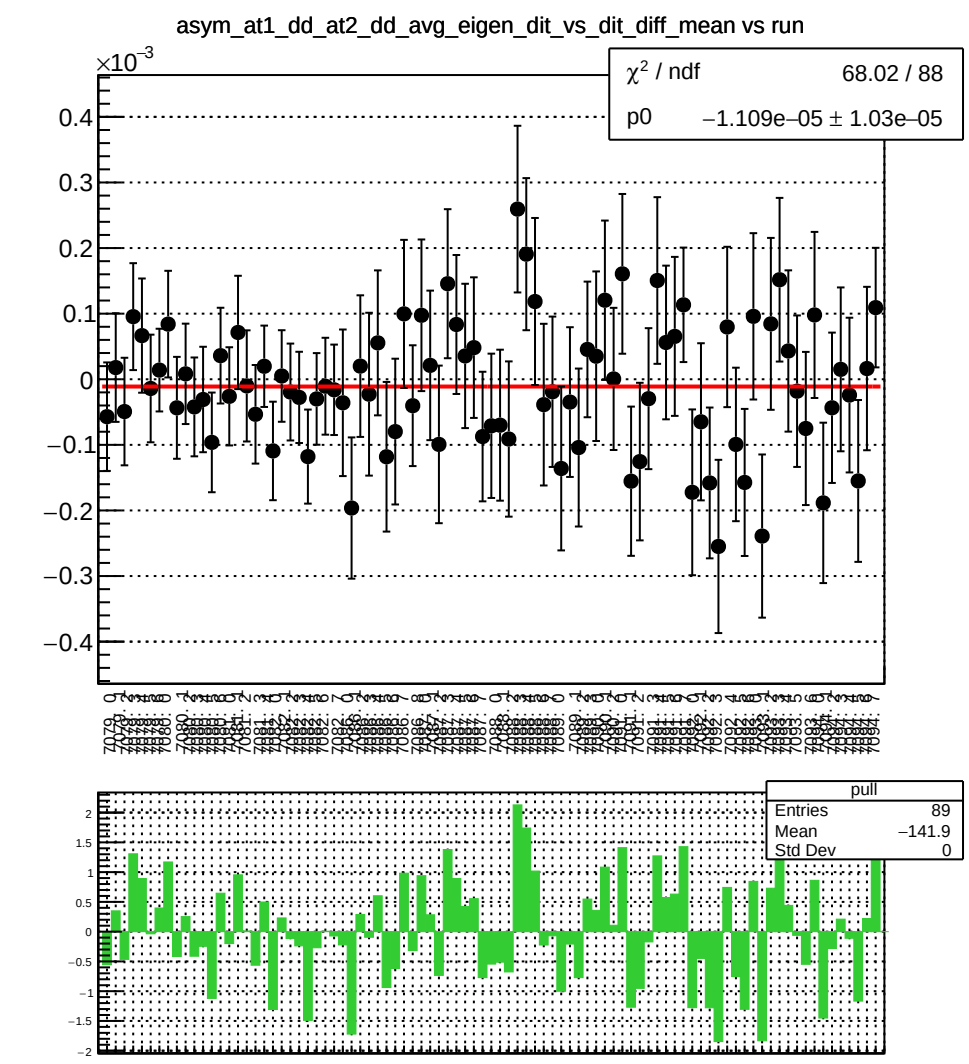

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.35 / 88
p0 0.02288 ± 0.05207
pull
Entries 89
Mean 124.3
Std Dev 0

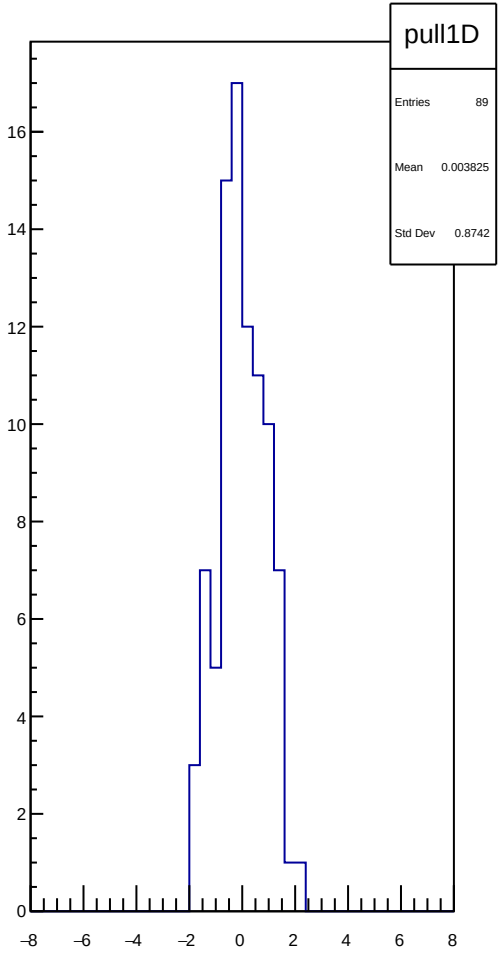

pull1D
Entries 89
Mean 0.01224
Std Dev 0.92

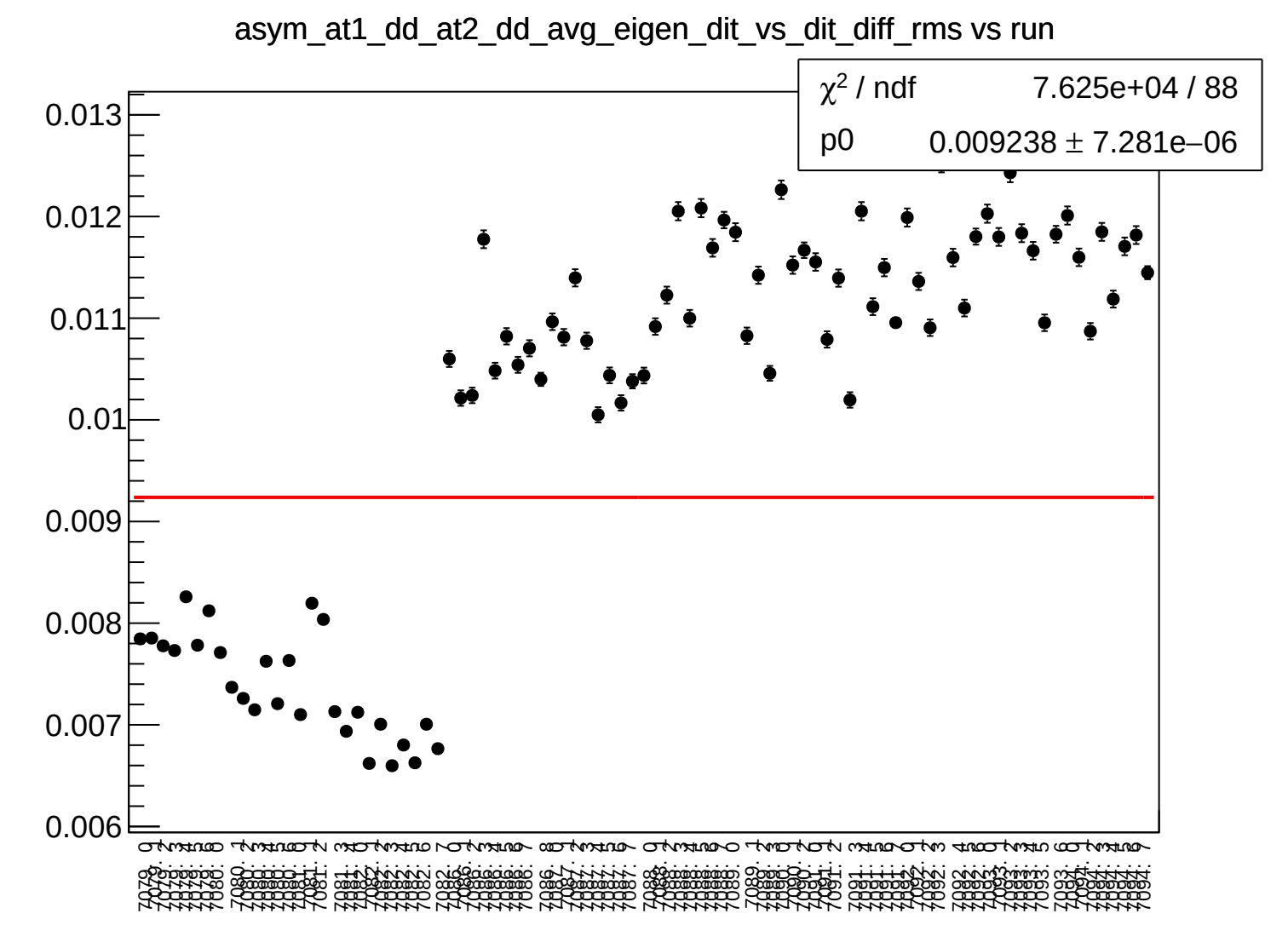

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 88
p0 45.77 ± 0.03682
90
80
70
60
50
40
30
20

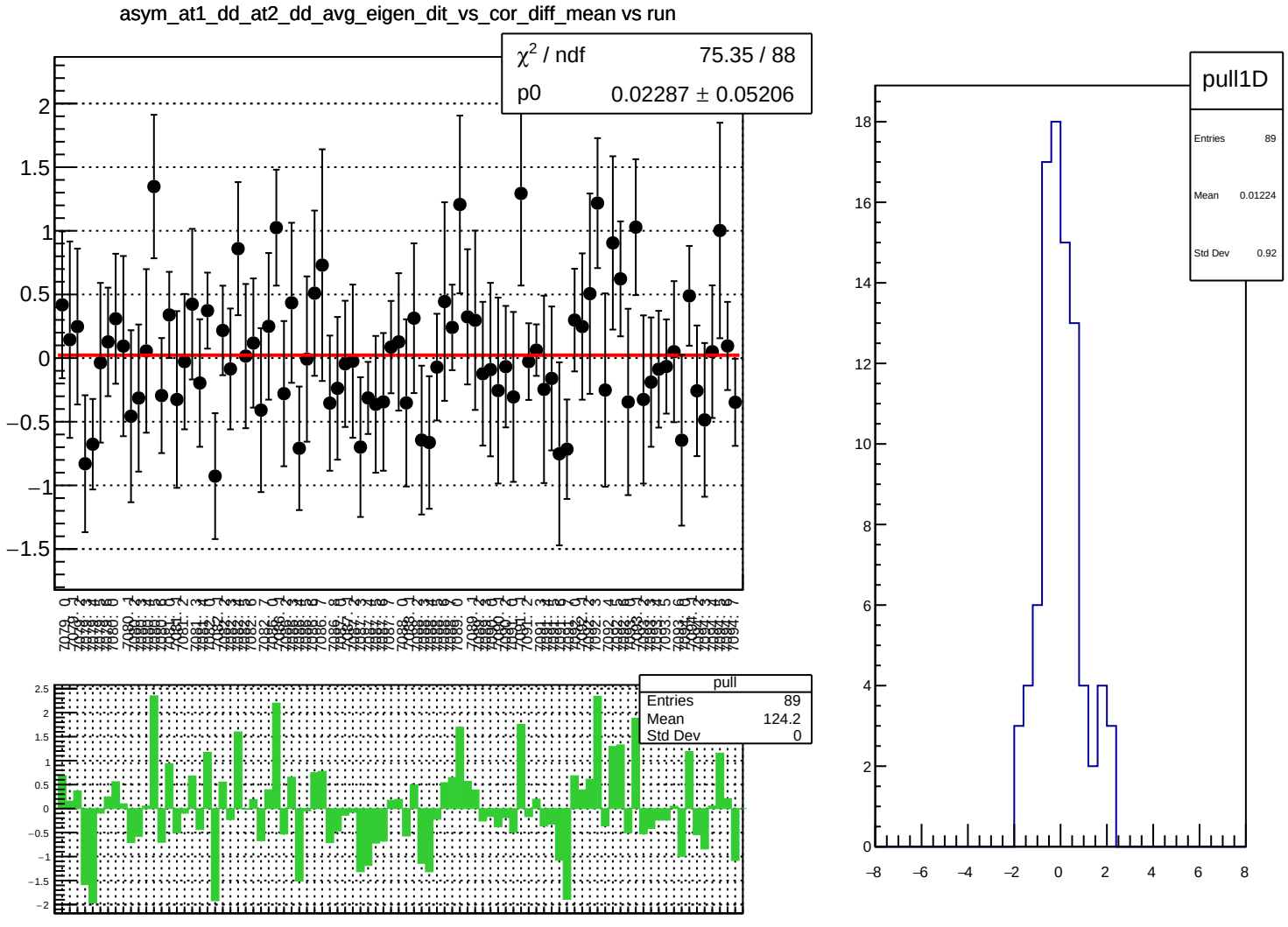

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.35 / 88
p0 0.02288 ± 0.05207
pull
Entries 89
Mean 124.3
Std Dev 0
pull1D
Entries 89
Mean 0.01224
Std Dev 0.92

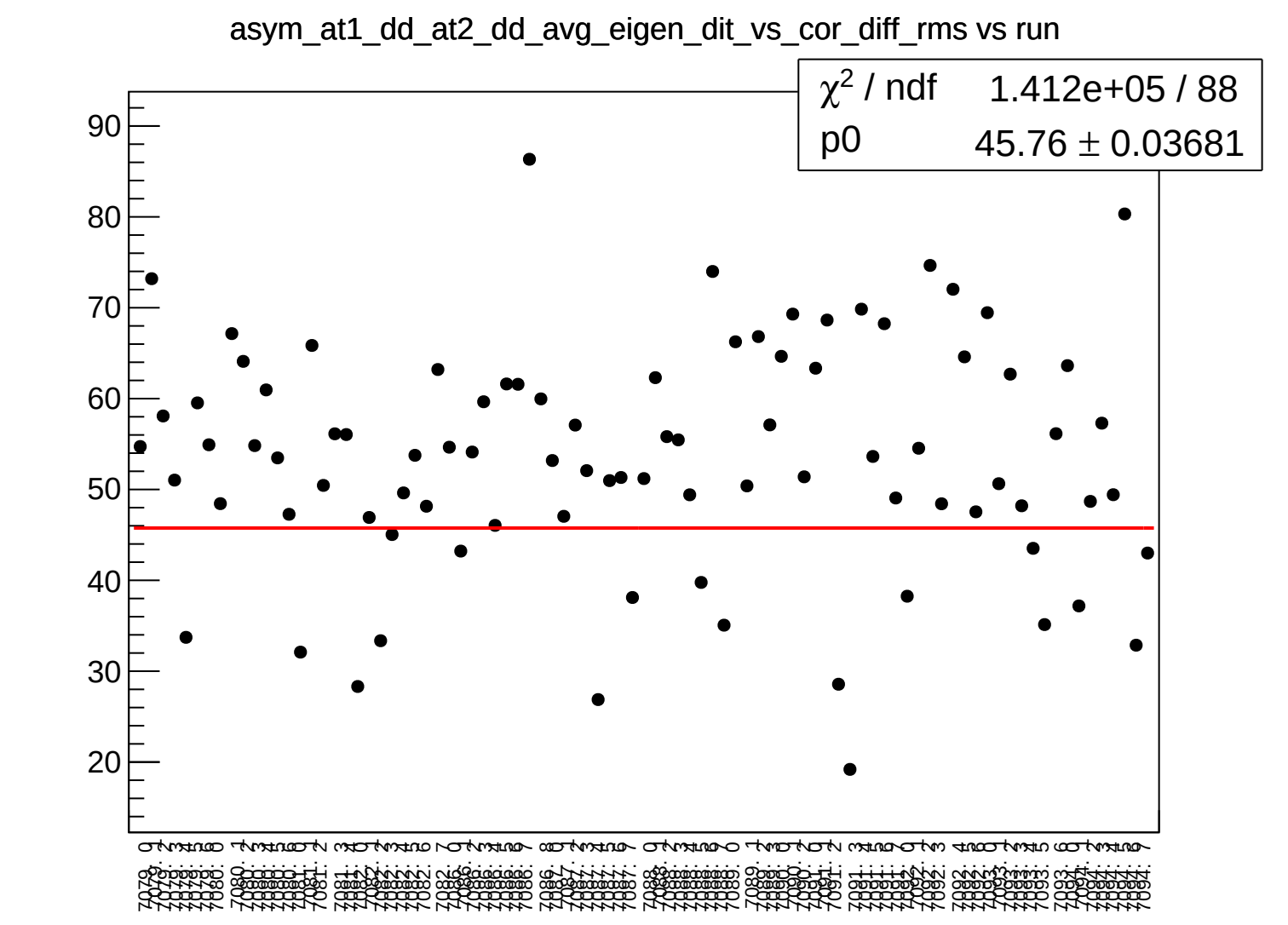

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 88
p0 45.77 ± 0.03682
90
80
70
60
50
40
30
20

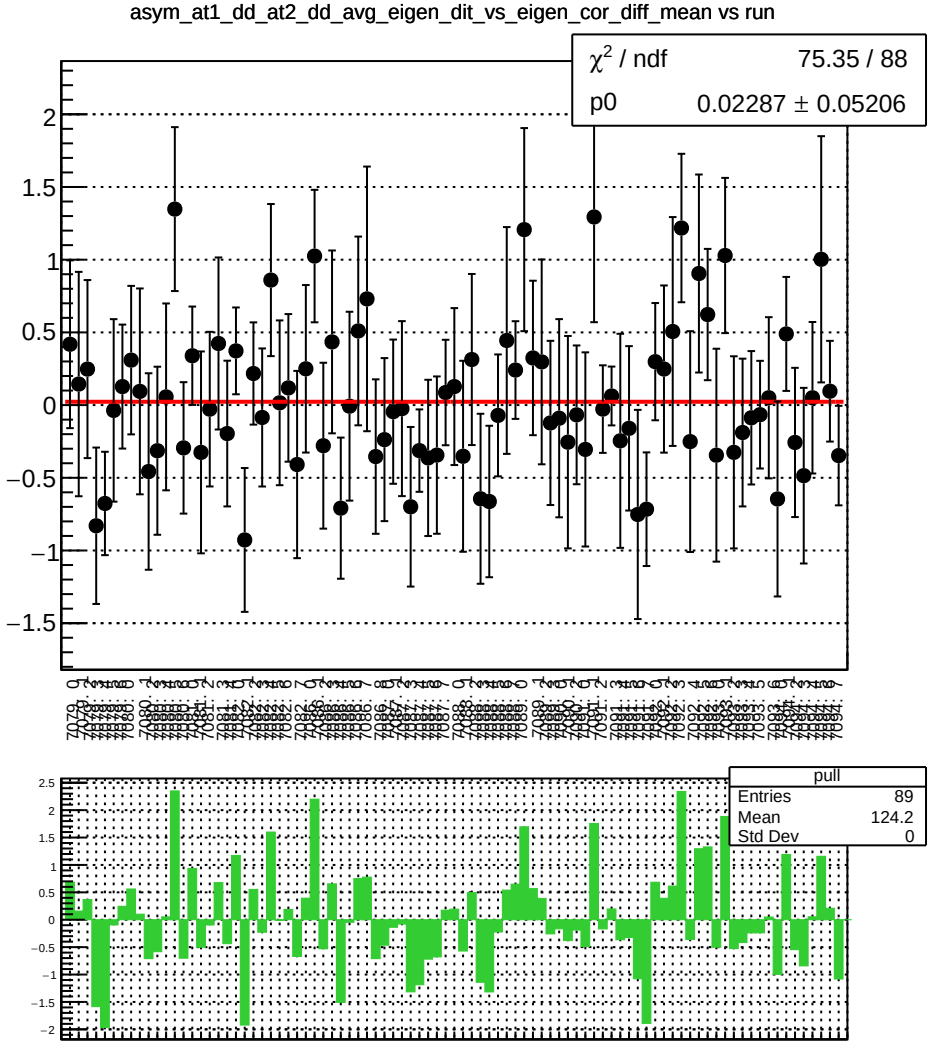

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.02 / 88
p0 −1.109e−05 ± 1.03e−05
pull
Entries 89
Mean −141.9
Std Dev 0

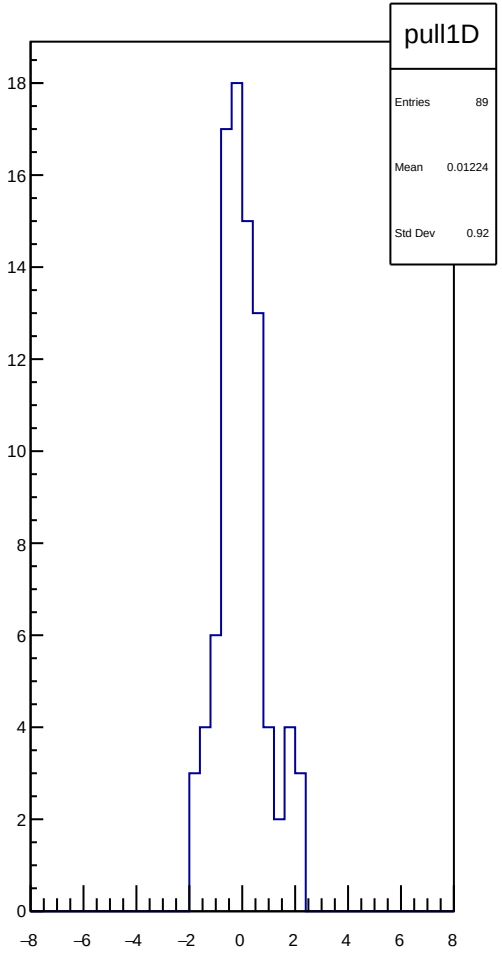

pull1D
Entries 89
Mean 0.003825
Std Dev 0.8742

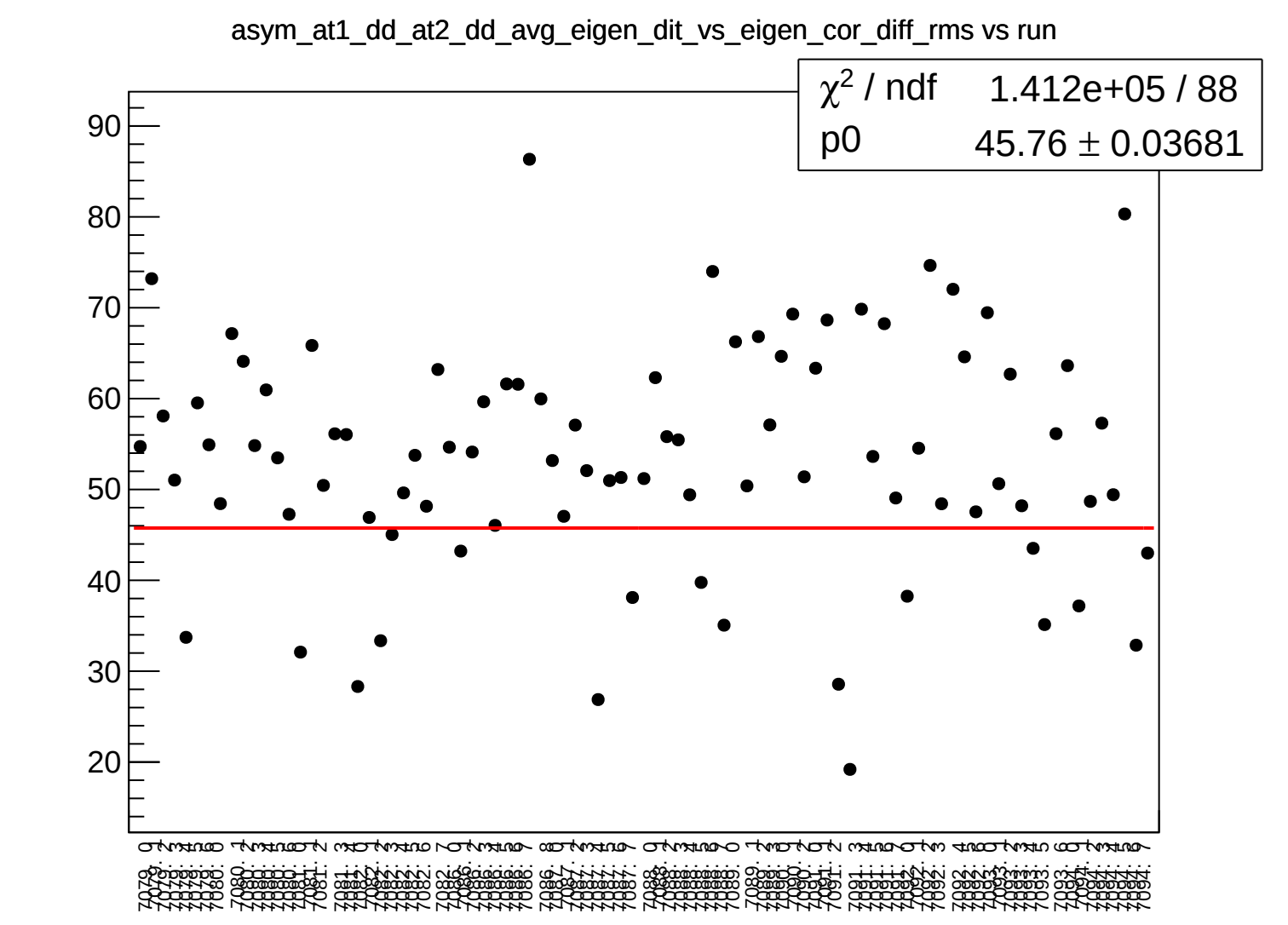

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.625e+04 / 88
p0 0.009238 ± 7.281e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

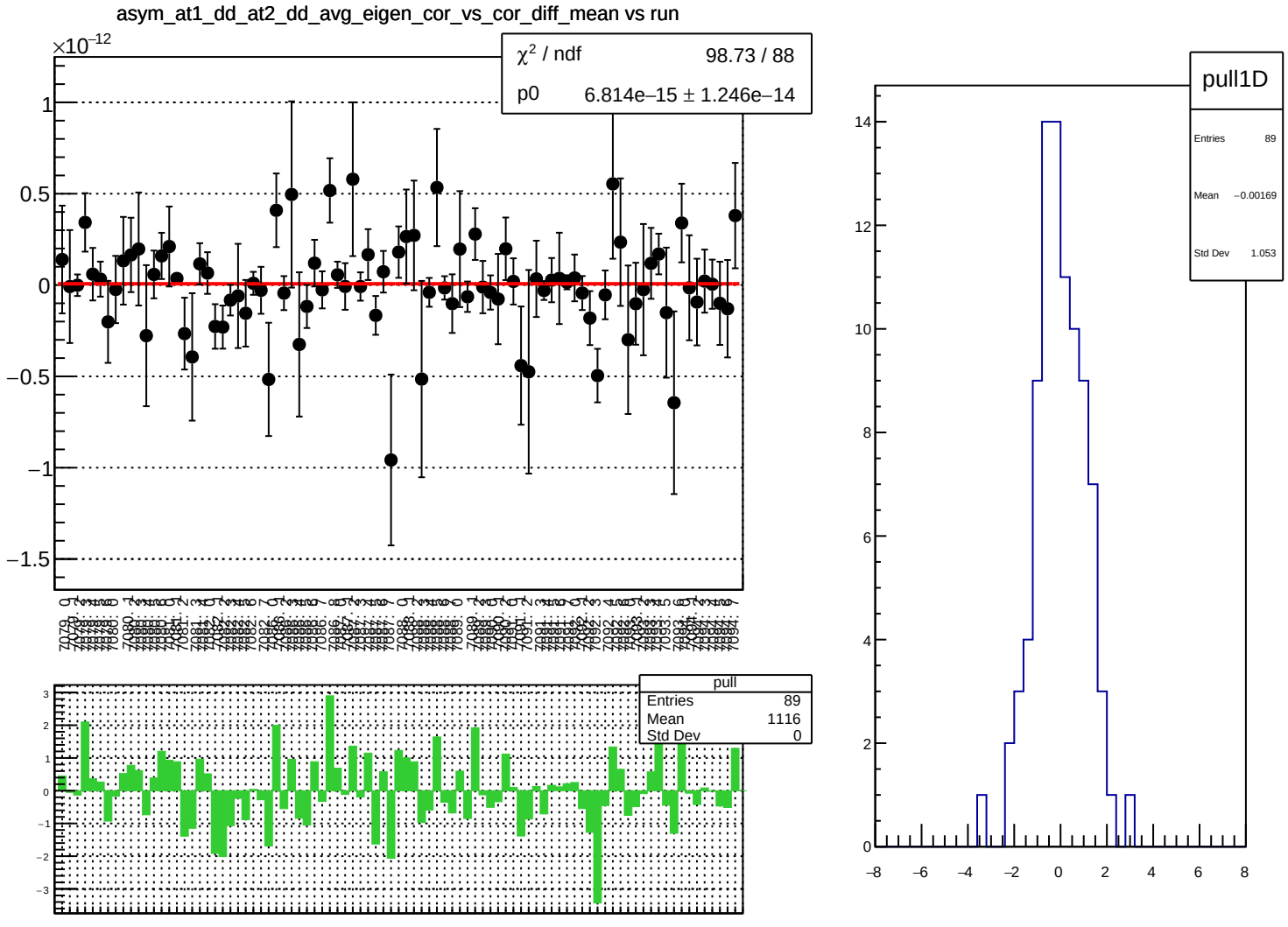

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.35 / 88
p0 0.02287 ± 0.05206
pull
Entries 89
Mean 124.2
Std Dev 0
pull1D
Entries 89
Mean 0.01224
Std Dev 0.92

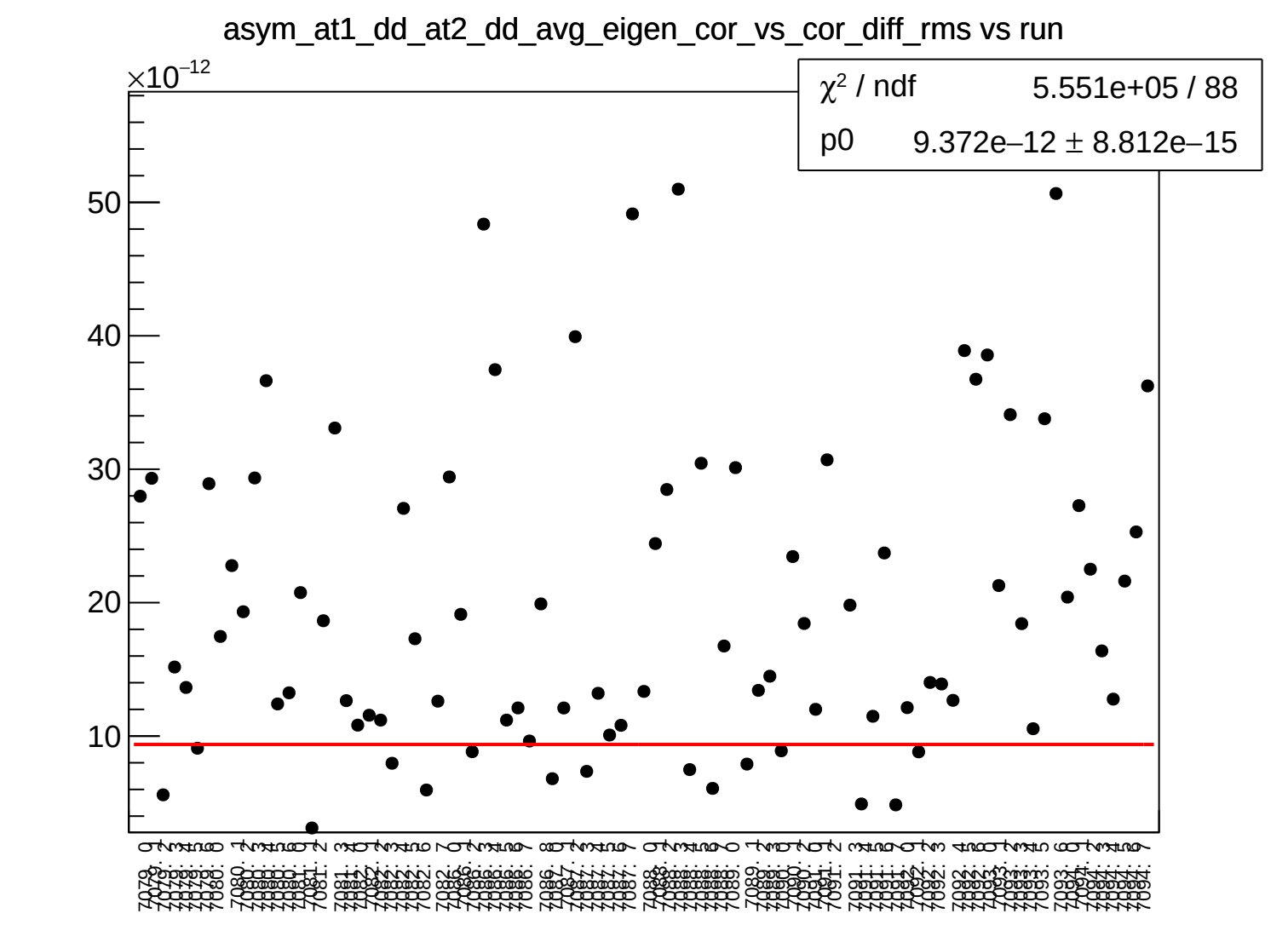

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 88
p0 45.76 ± 0.03681
90
80
70
60
50
40
30
20

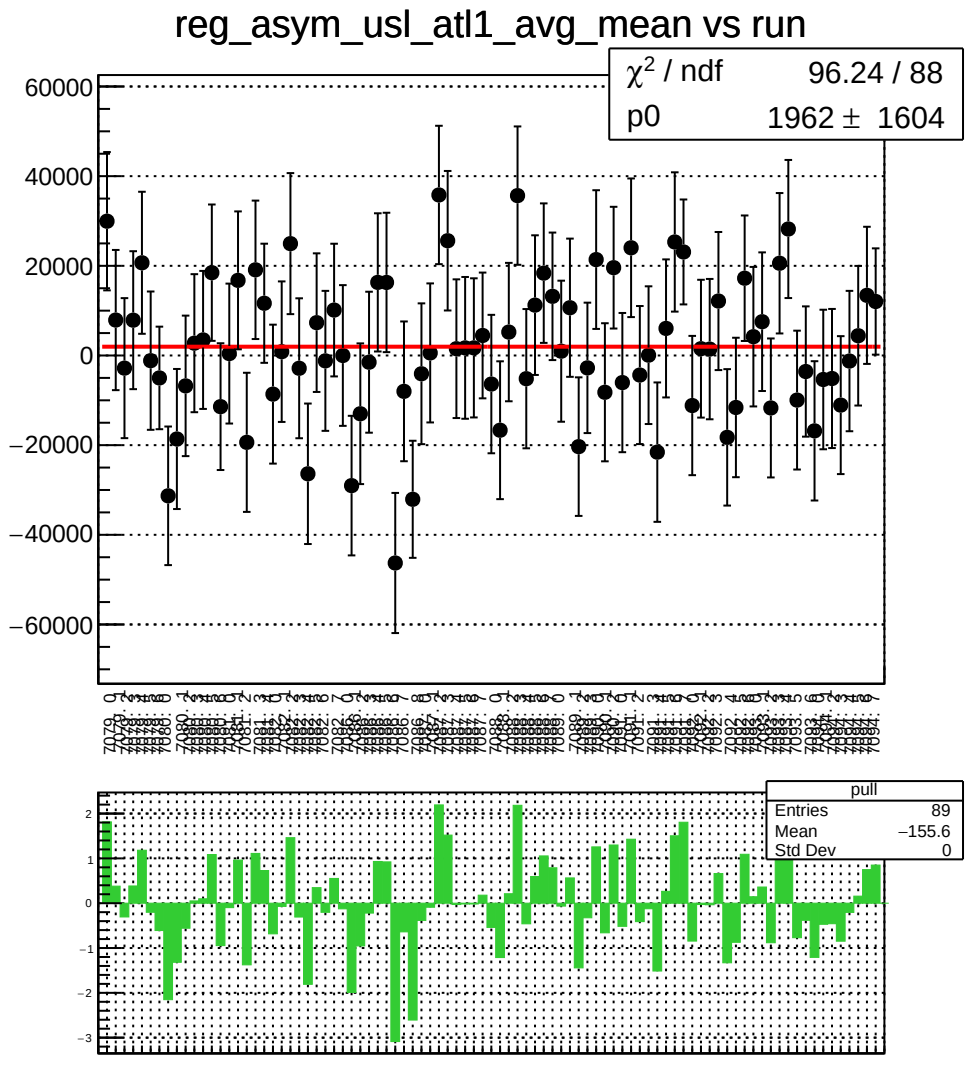

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.35 / 88
p0 0.02287 ± 0.05206
pull
Entries 89
Mean 124.2
Std Dev 0

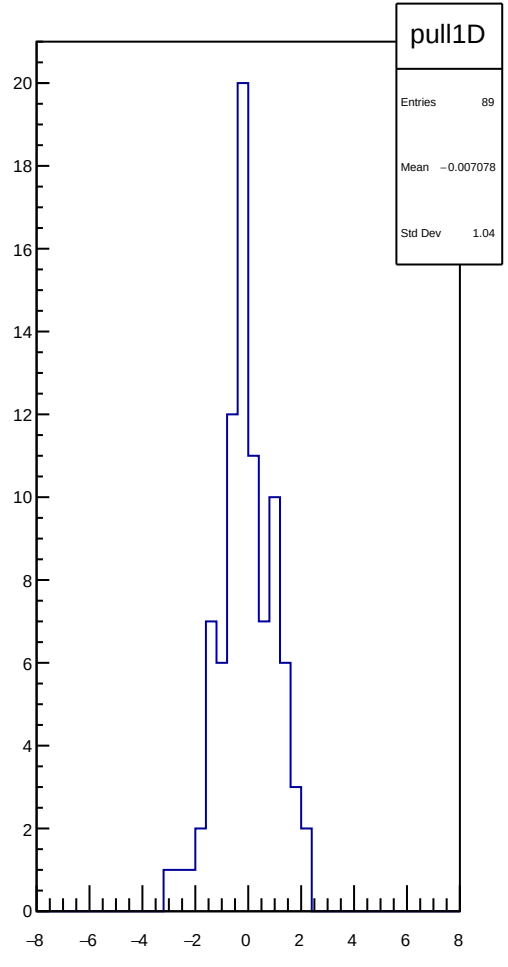

pull1D
Entries 89
Mean 0.01224
Std Dev 0.92

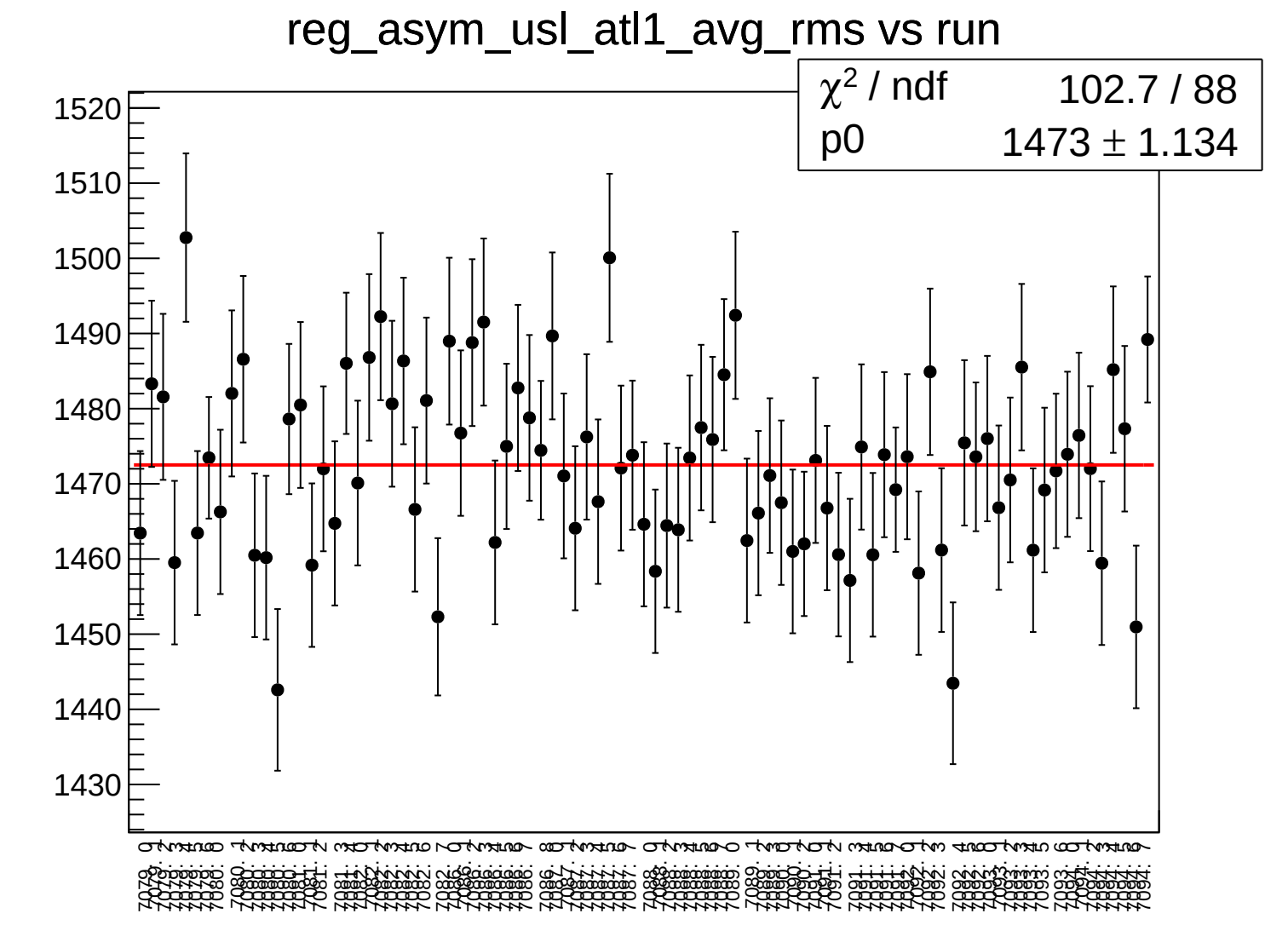

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 88
p0 45.76 ± 0.03681
90
80
70
60
50
40
30
20

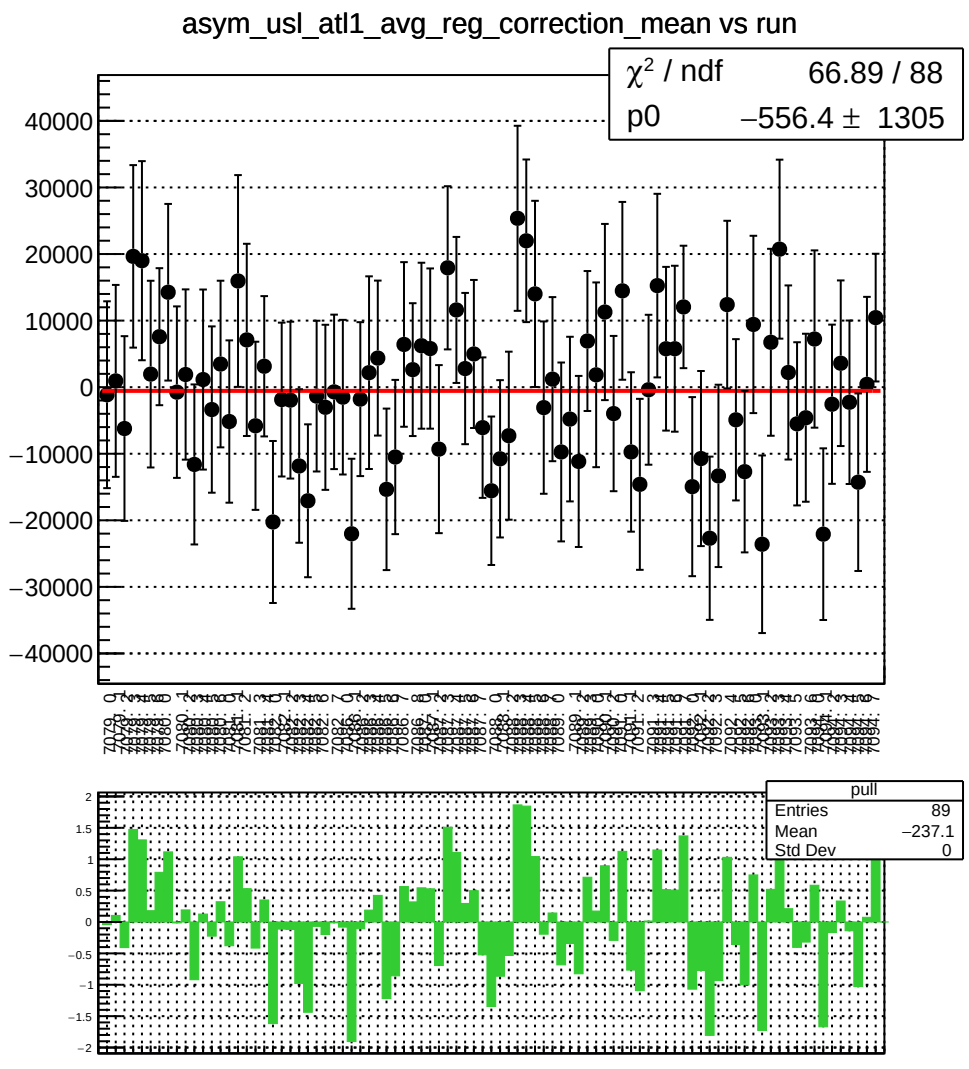

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 98.73 / 88
p0 6.814e−15 ± 1.246e−14
pull
Entries 89
Mean 1116
Std Dev 0
pull1D
Entries 89
Mean −0.00169
Std Dev 1.053

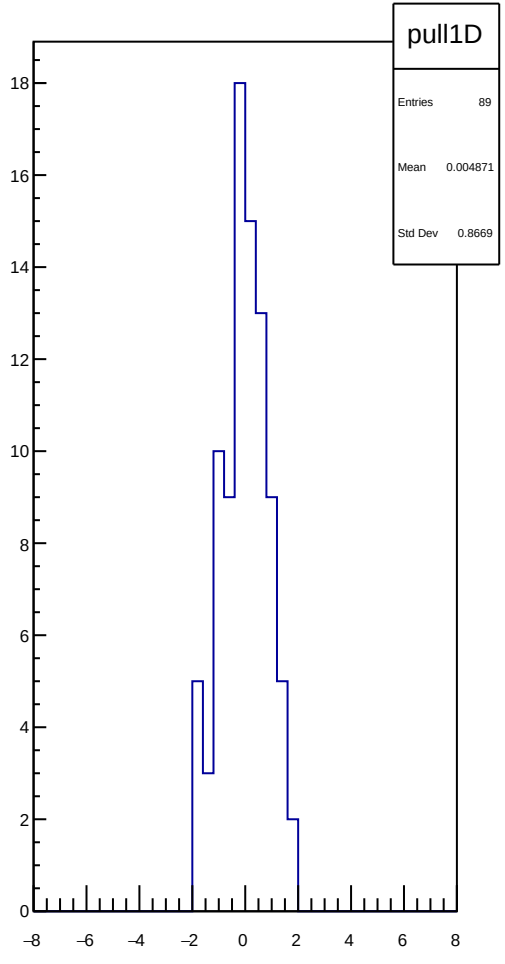

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.551e+05 / 88
p0 9.372e−12 ± 8.812e−15
50
40
30
20
10

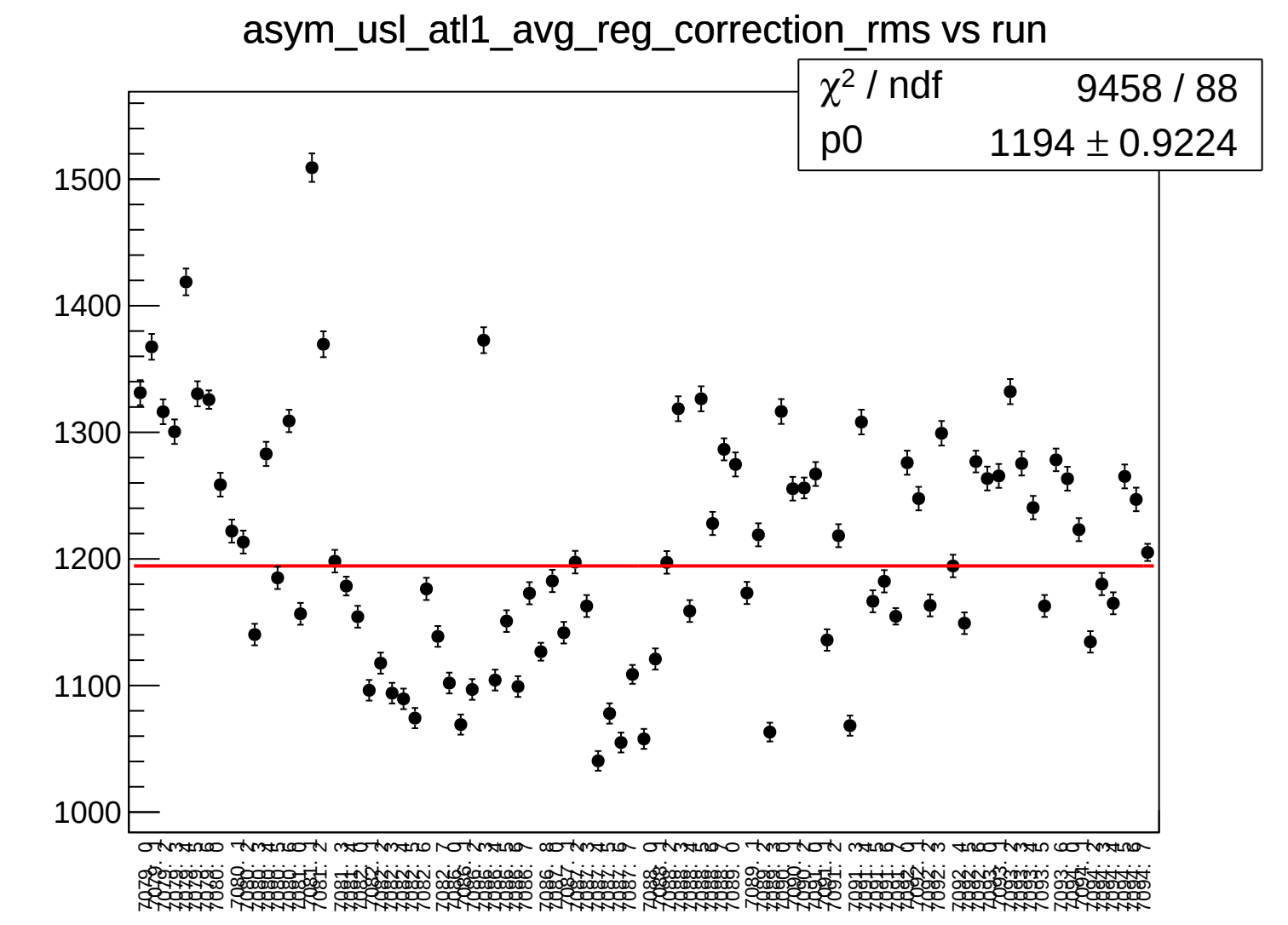

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 96.24 / 88
p0 1962 ± 1604
pull
Entries 89
Mean −155.6
Std Dev 0

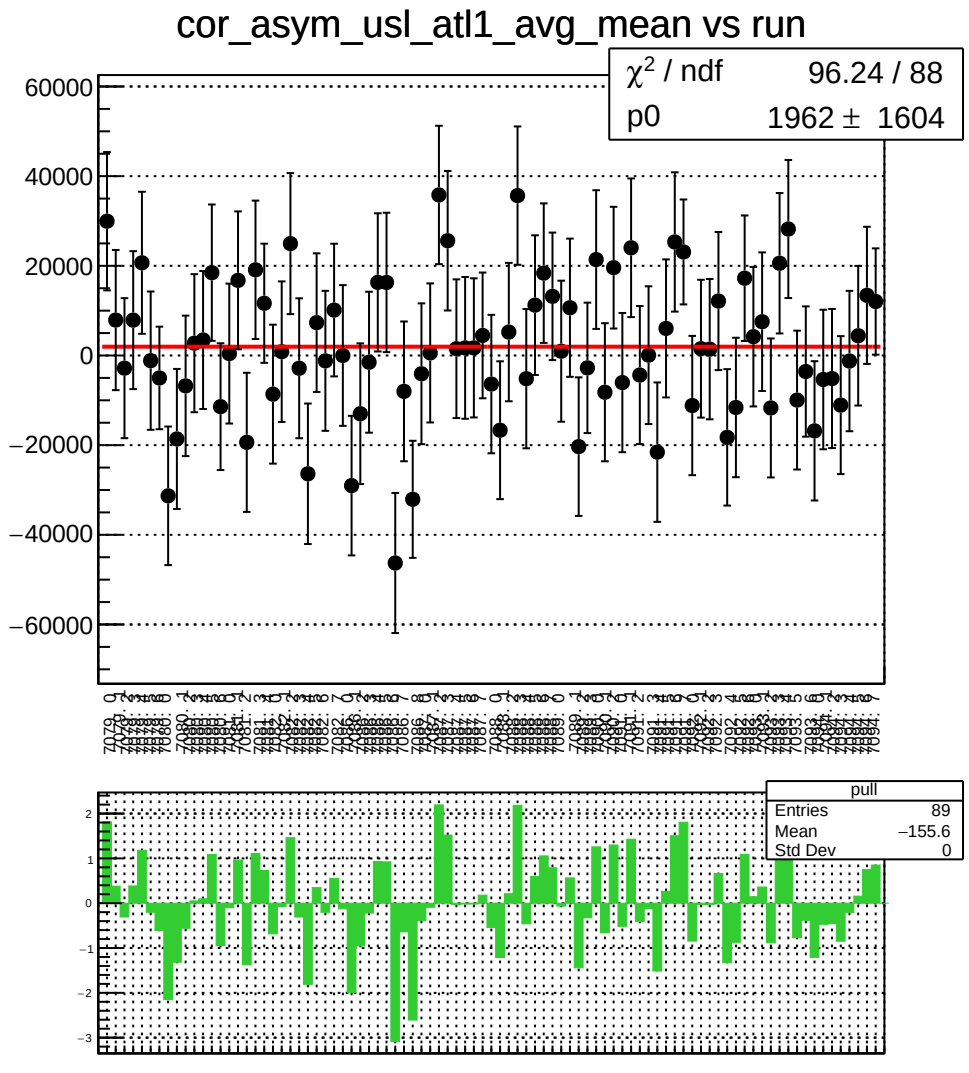

pull1D
Entries 89
Mean −0.007078
Std Dev 1.04

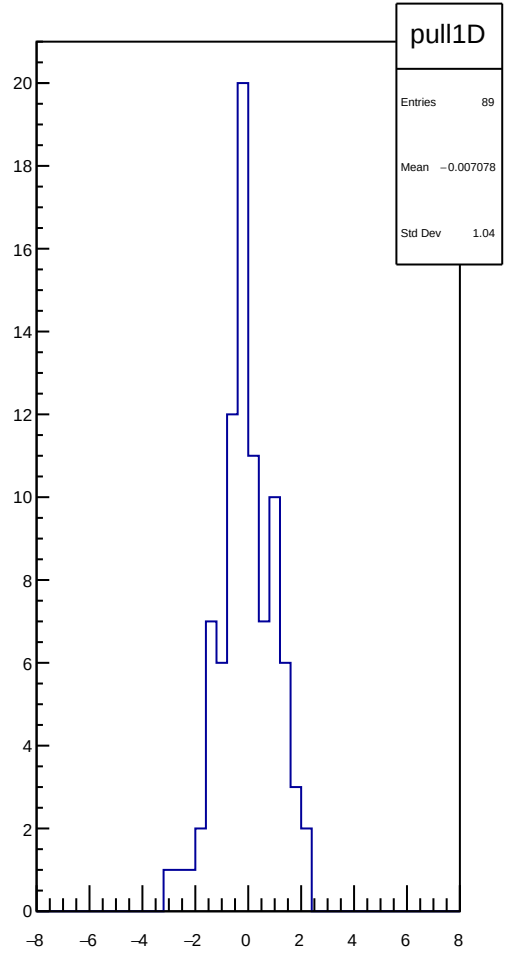

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 102.7 / 88
p0 1473 ± 1.134
1520
1510
1500
1490
1480
1470
1460
1450
1440
1430

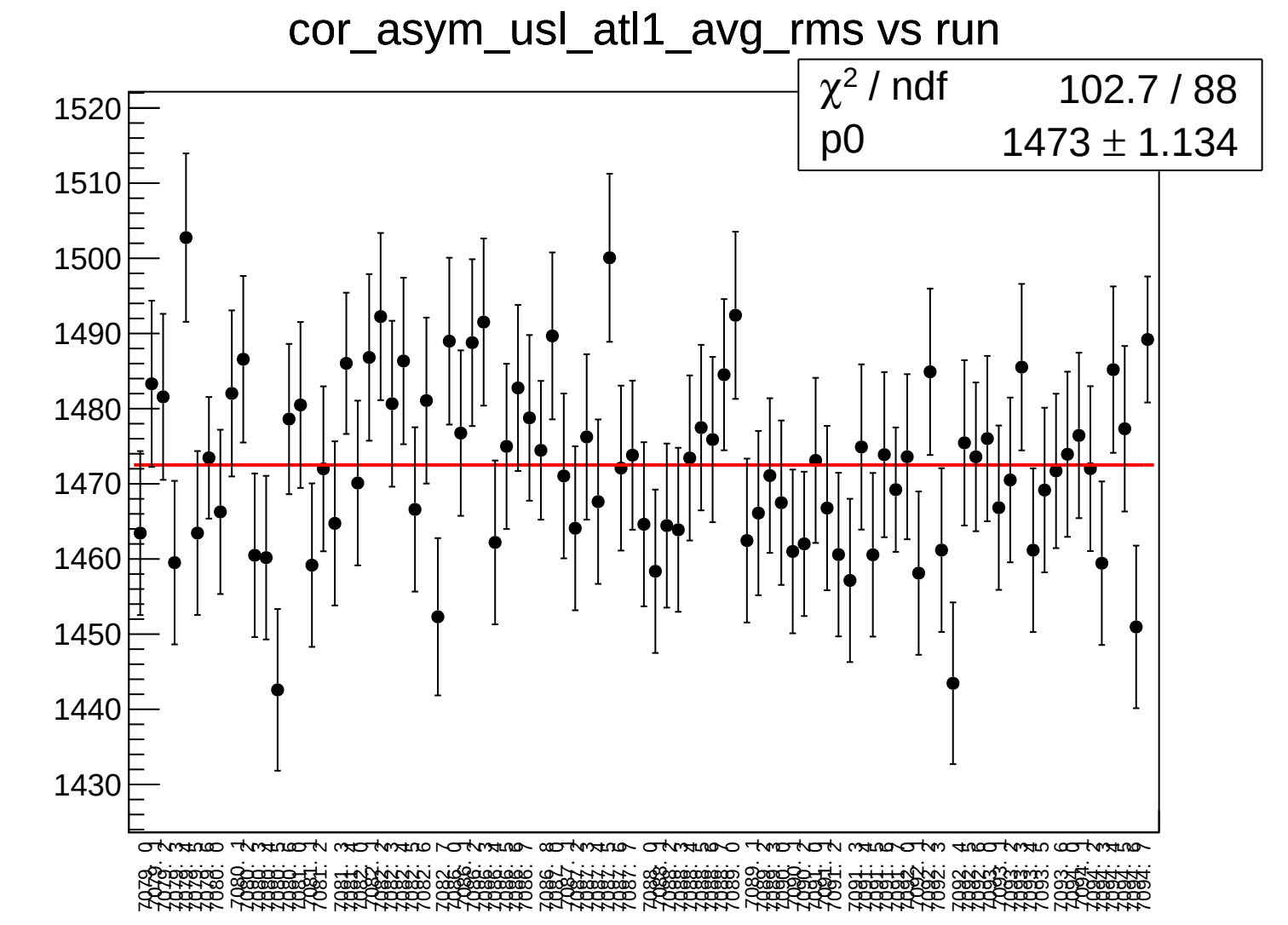

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 66.89 / 88
p0 −556.4 ± 1305
pull
Entries 89
Mean −237.1
Std Dev 0

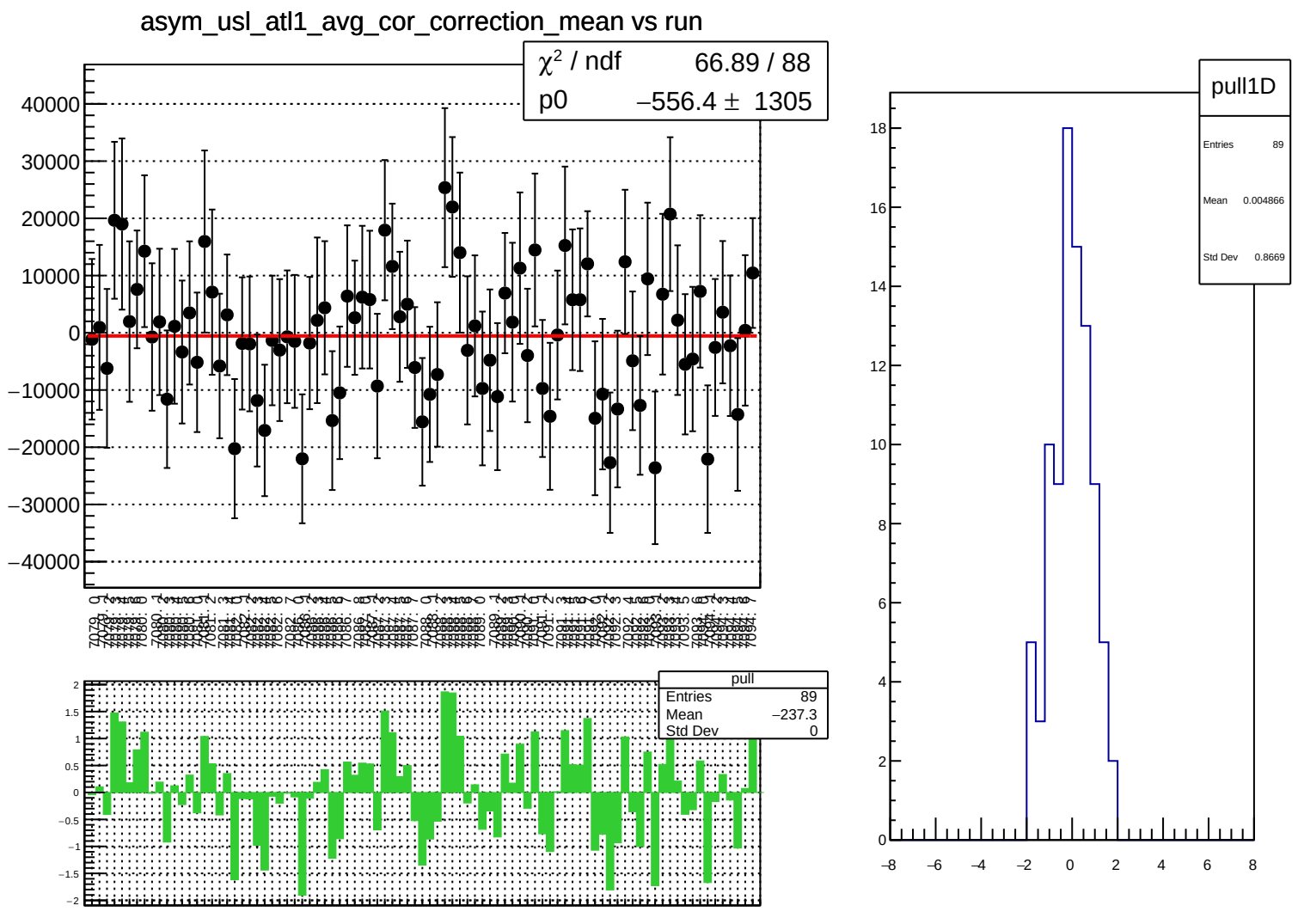

pull1D
Entries 89
Mean 0.004871
Std Dev 0.8669

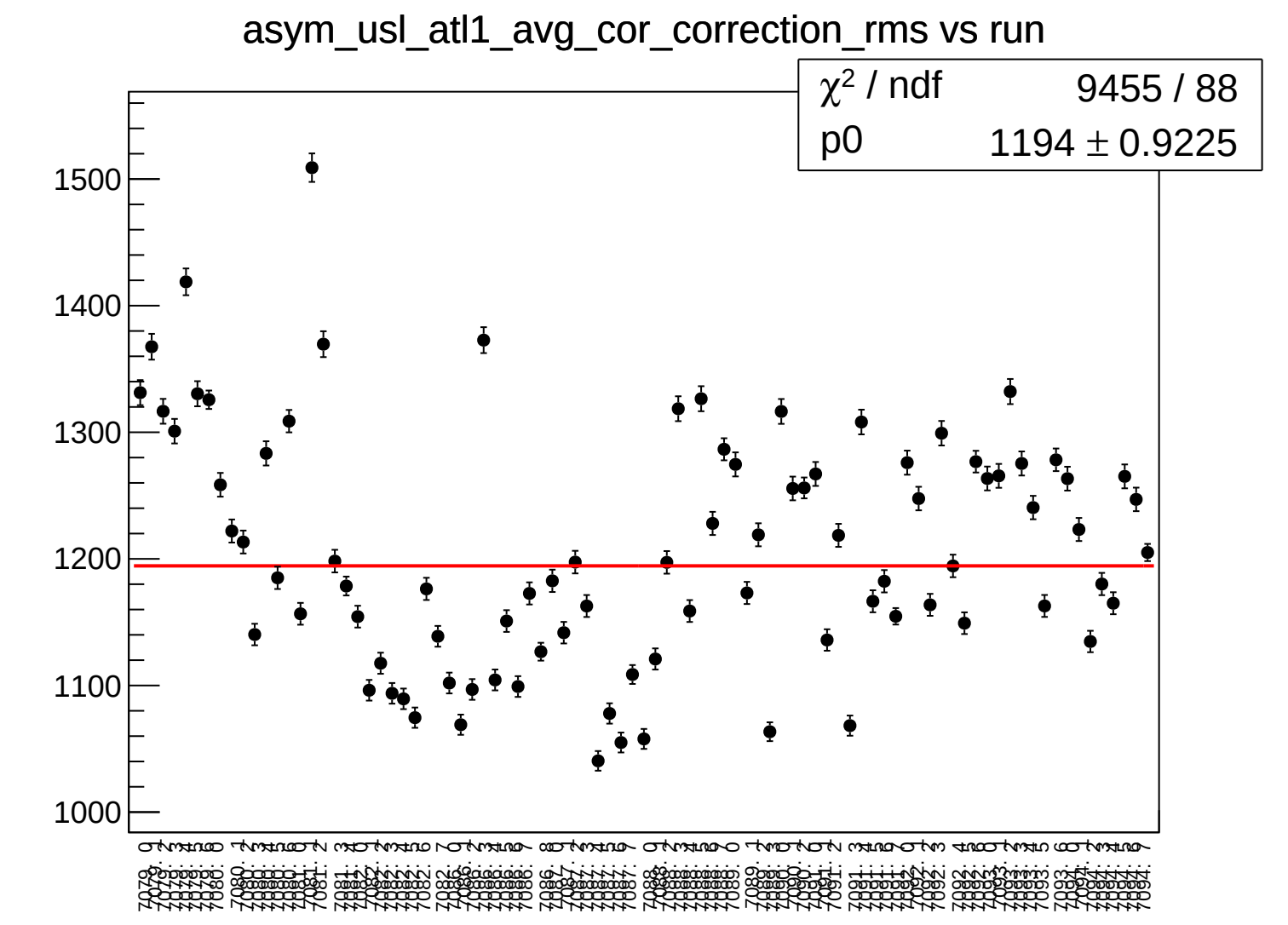

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 9458 / 88
p0 1194 ± 0.9224
1500
1400
1300
1200
1100
1000

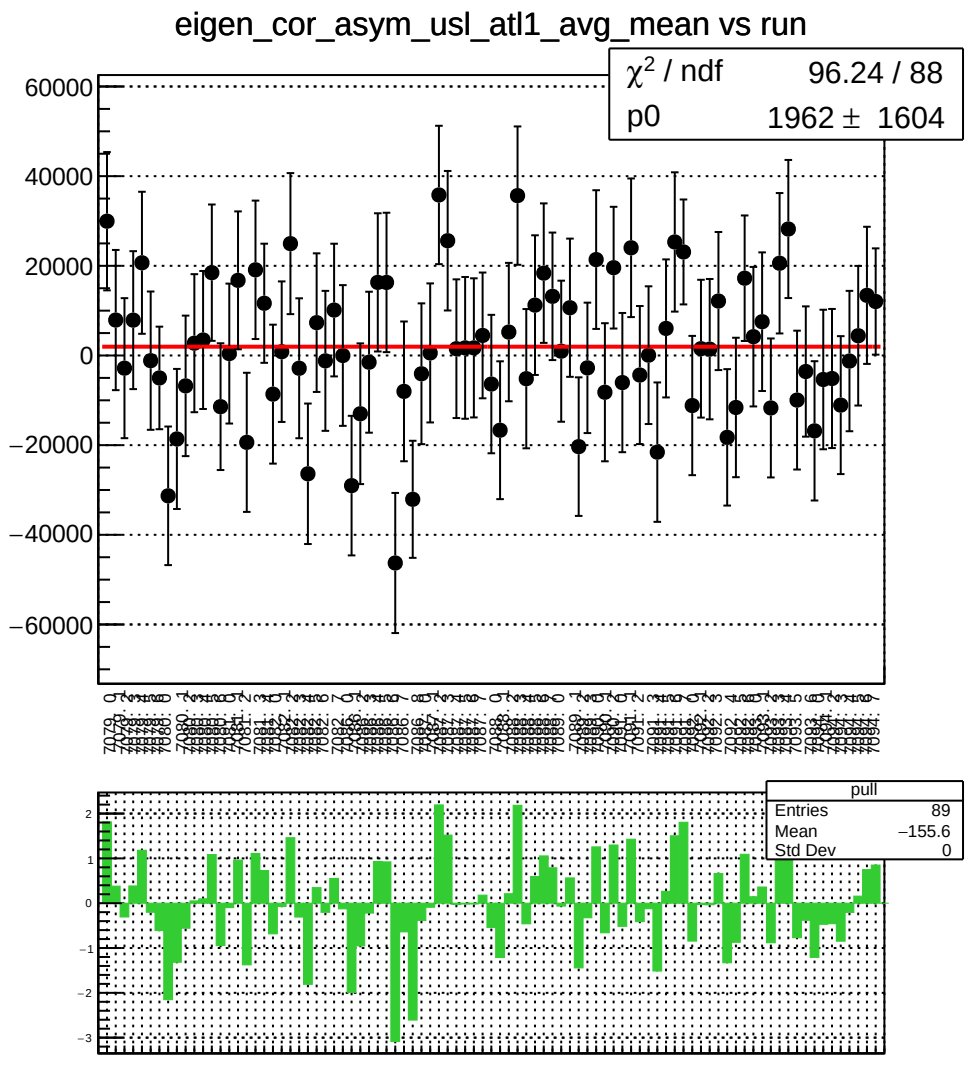

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 96.24 / 88
p0 1962 ± 1604
pull
Entries 89
Mean −155.6
Std Dev 0

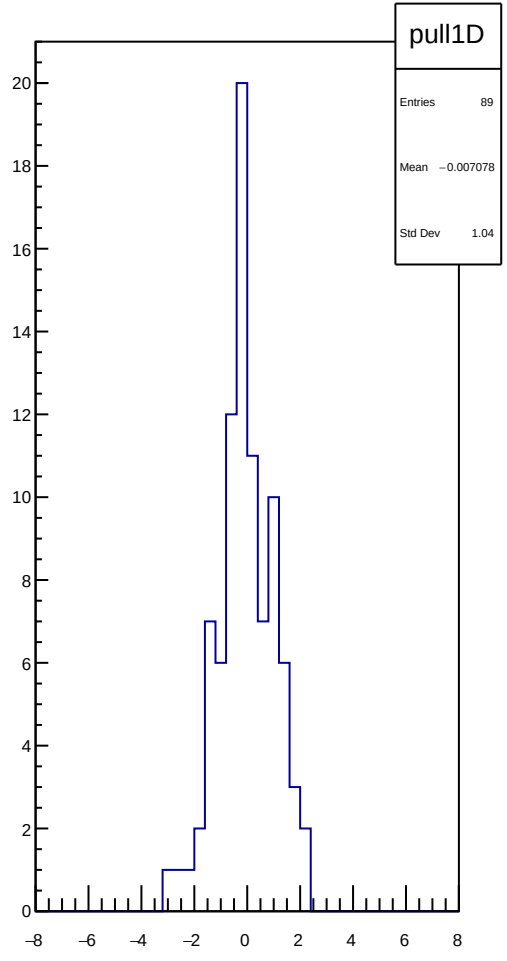

pull1D
Entries 89
Mean −0.007078
Std Dev 1.04

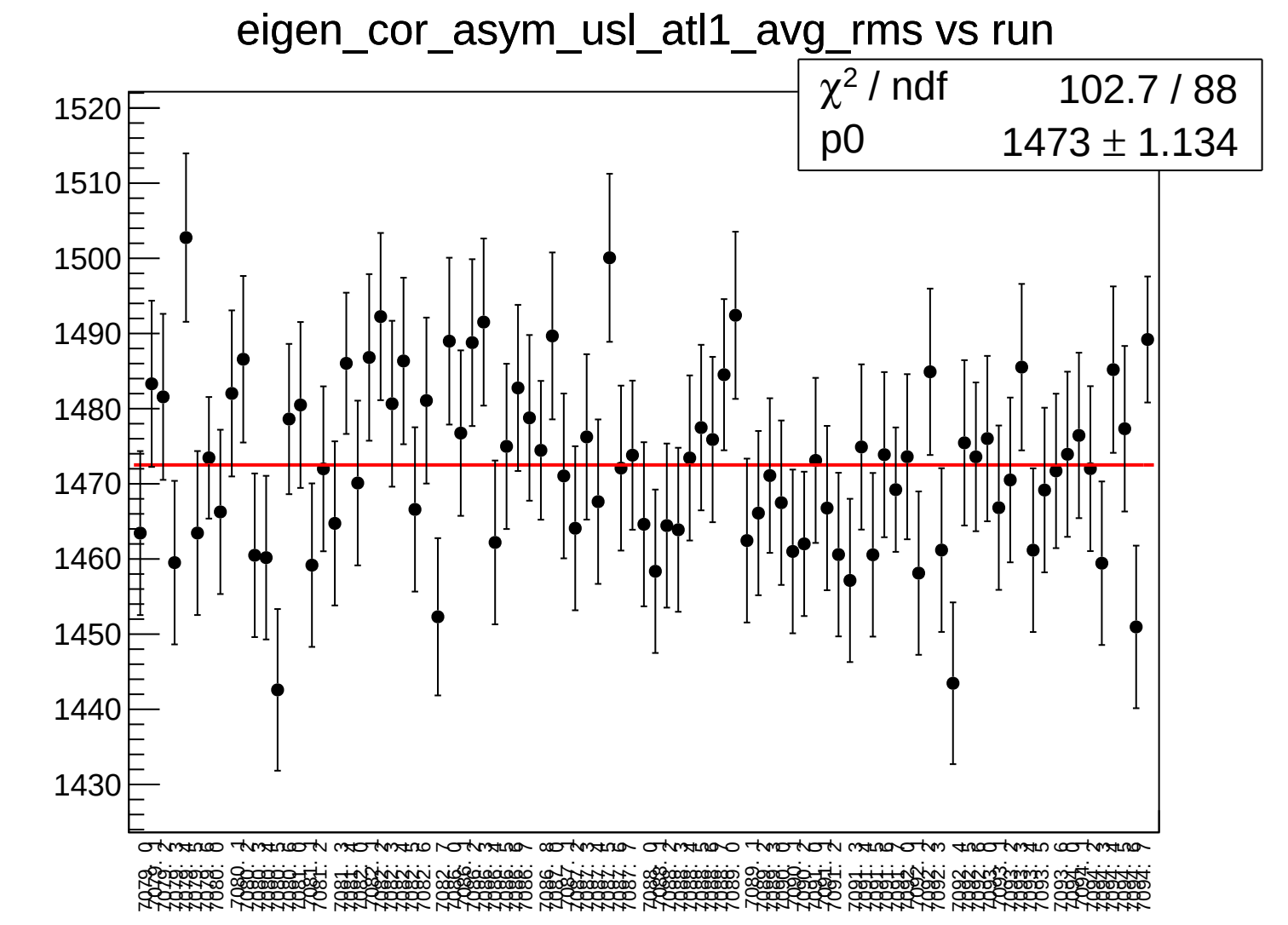

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 102.7 / 88
p0 1473 ± 1.134
1520
1510
1500
1490
1480
1470
1460
1450
1440
1430

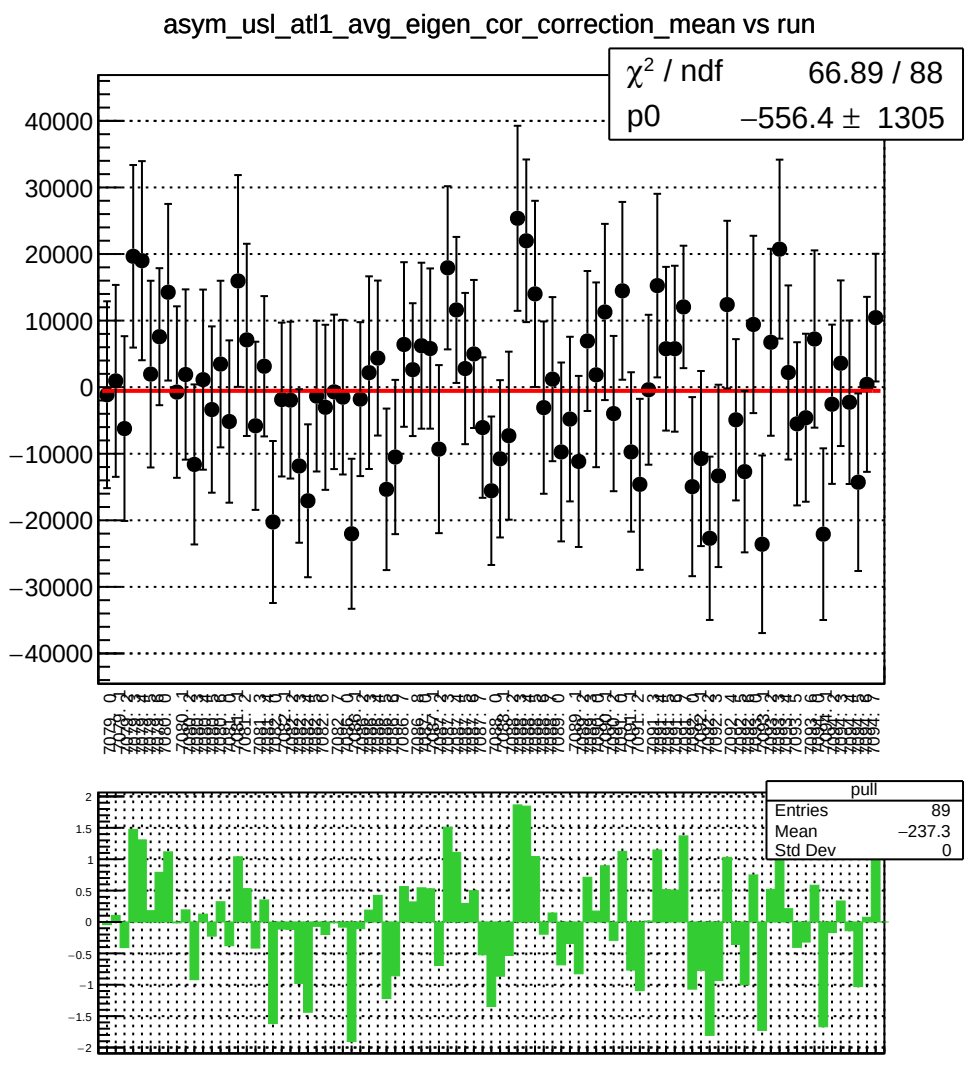

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 66.89 / 88
p0 −556.4 ± 1305
pull
Entries 89
Mean −237.3
Std Dev 0
pull1D
Entries 89
Mean 0.004866
Std Dev 0.8669

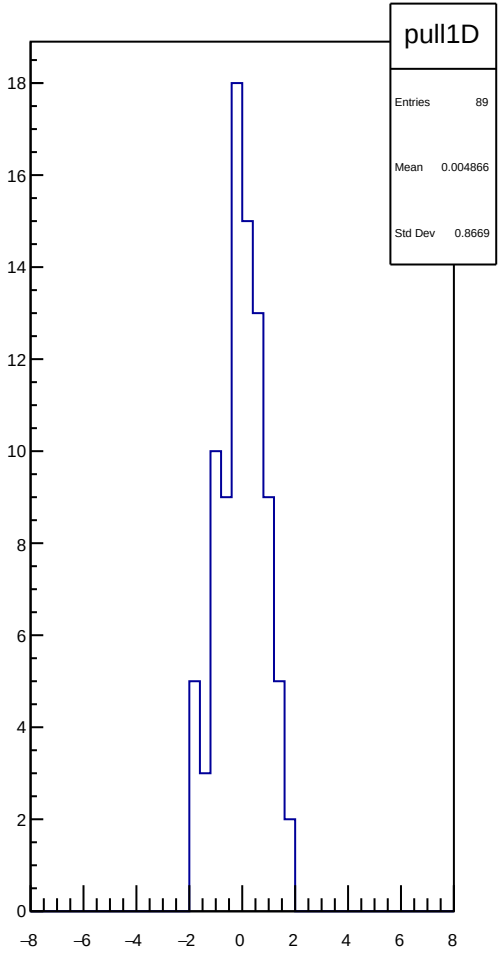

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 9455 / 88
p0 1194 ± 0.9225
1500
1400
1300
1200
1100
1000

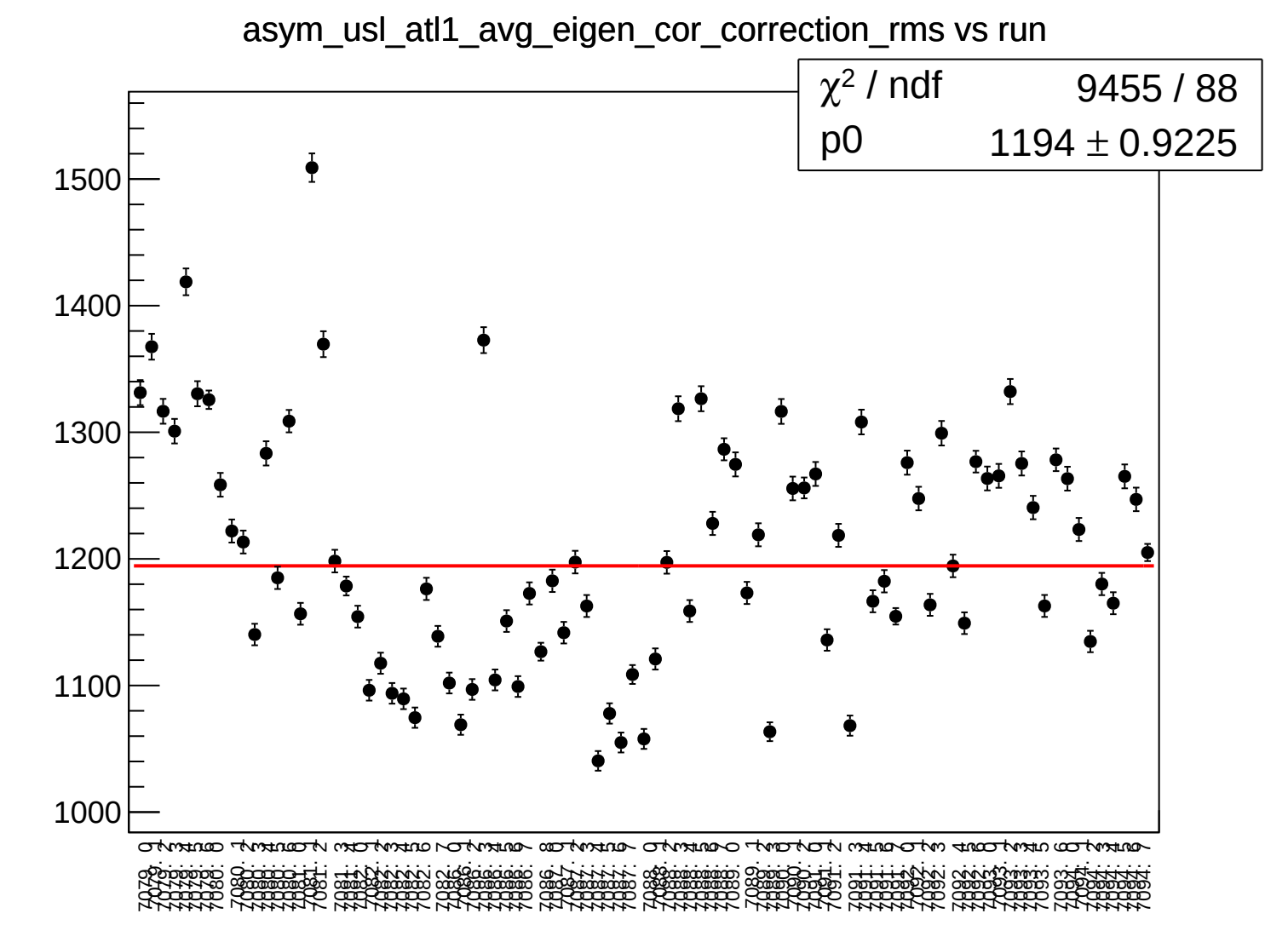

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 96.24 / 88
p0 1962 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −155.6
Std Dev 0
2
1
0
−1
−2
−3

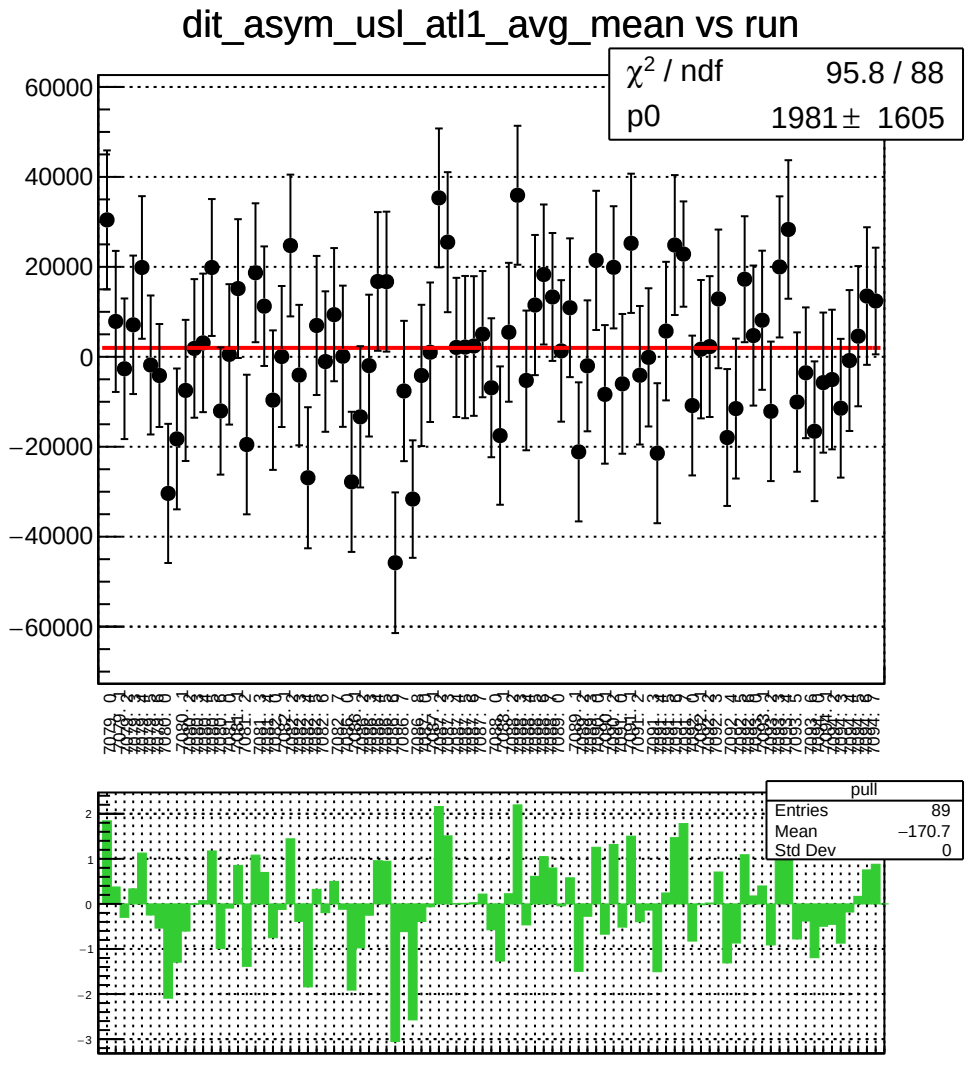

pull1D
Entries 89
Mean −0.007078
Std Dev 1.04
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

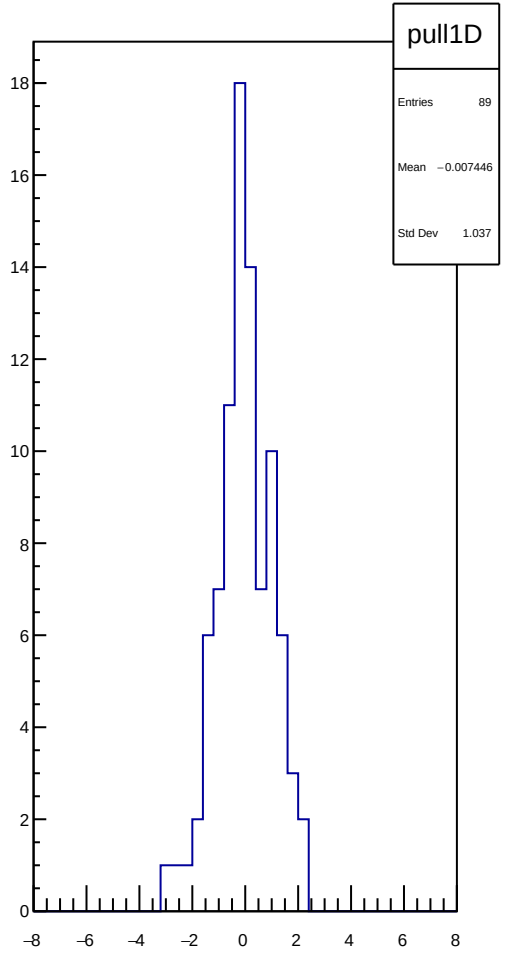

eigen_cor_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 102.7 / 88
p0 1473 ± 1.134
1520
1510
1500
1490
1480
1470
1460
1450
1440
1430

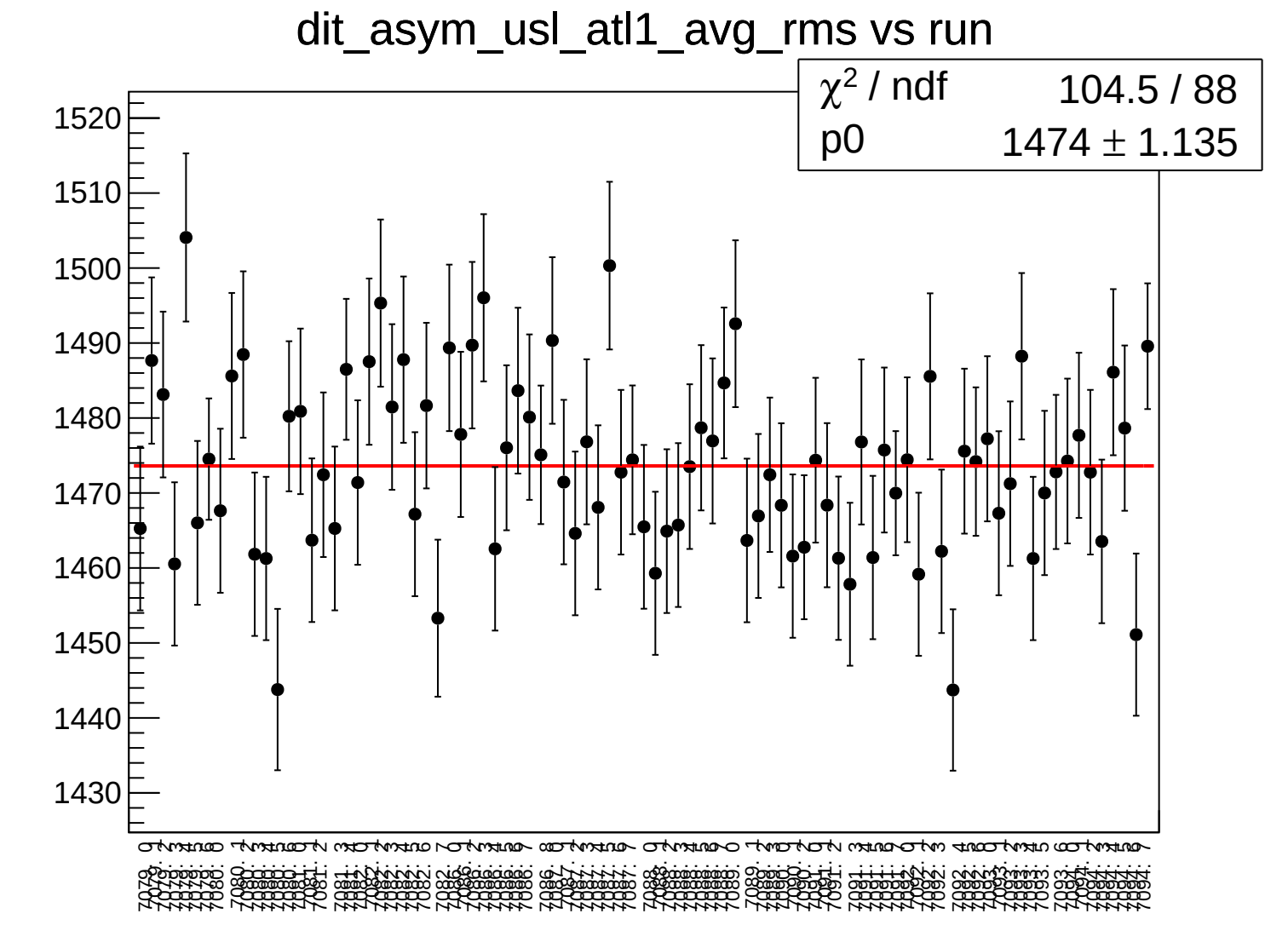

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.89 / 88
p0 −556.4 ± 1305
pull
Entries 89
Mean −237.3
Std Dev 0

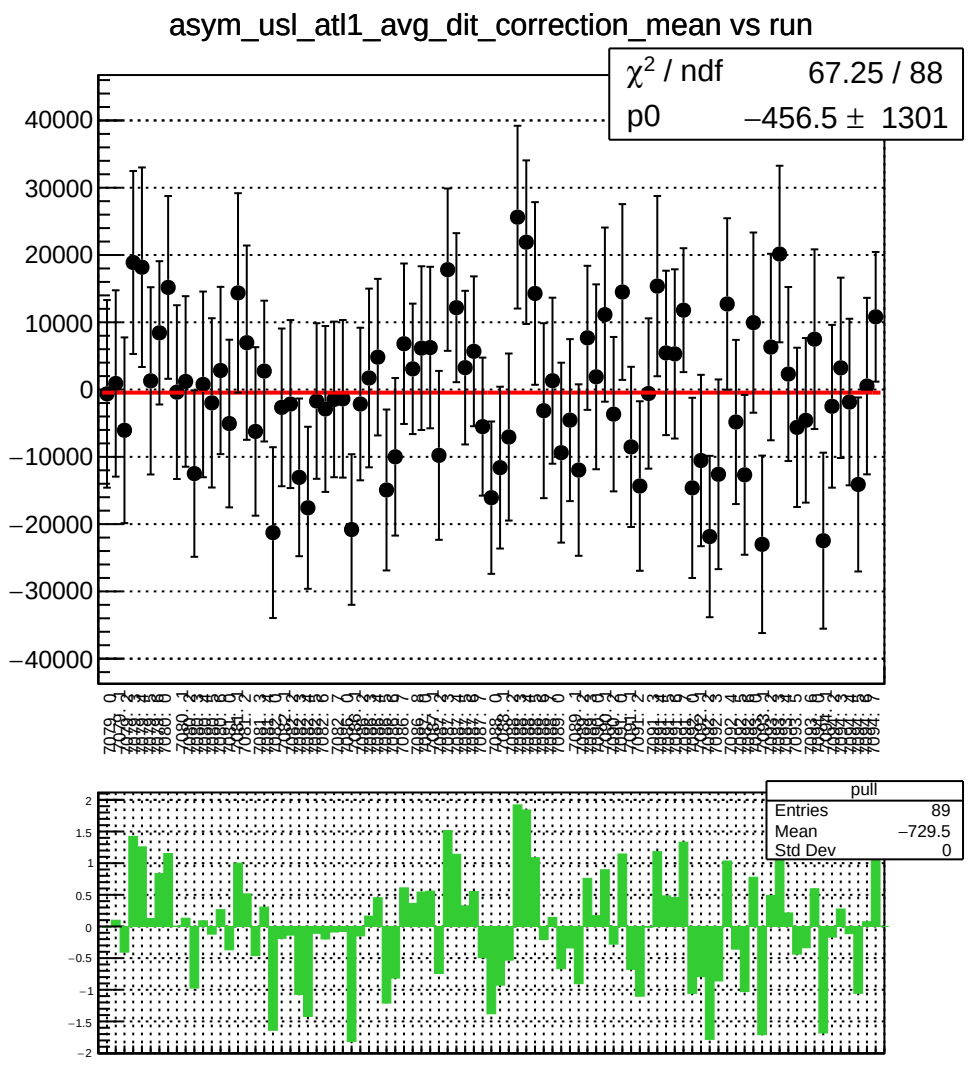

pull1D
Entries 89
Mean 0.004866
Std Dev 0.8669

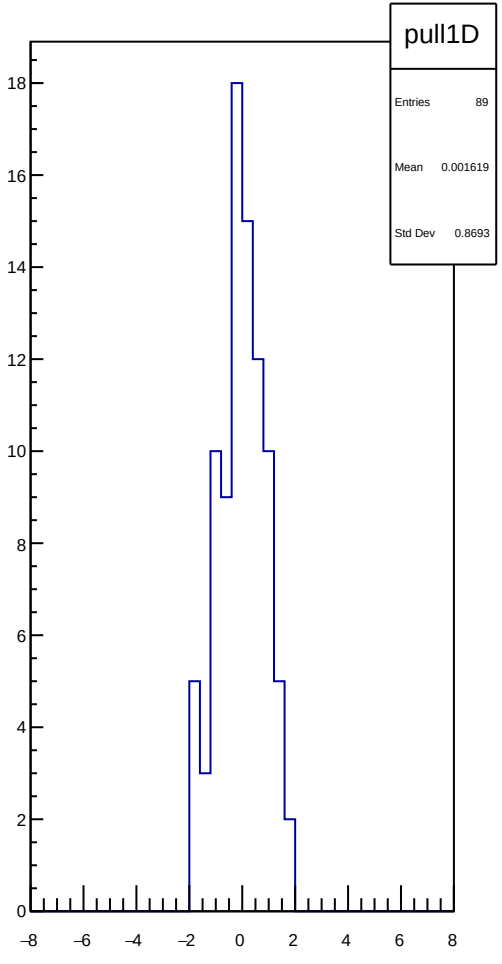

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 9455 / 88
p0 1194 ± 0.9225
1500
1400
1300
1200
1100
1000

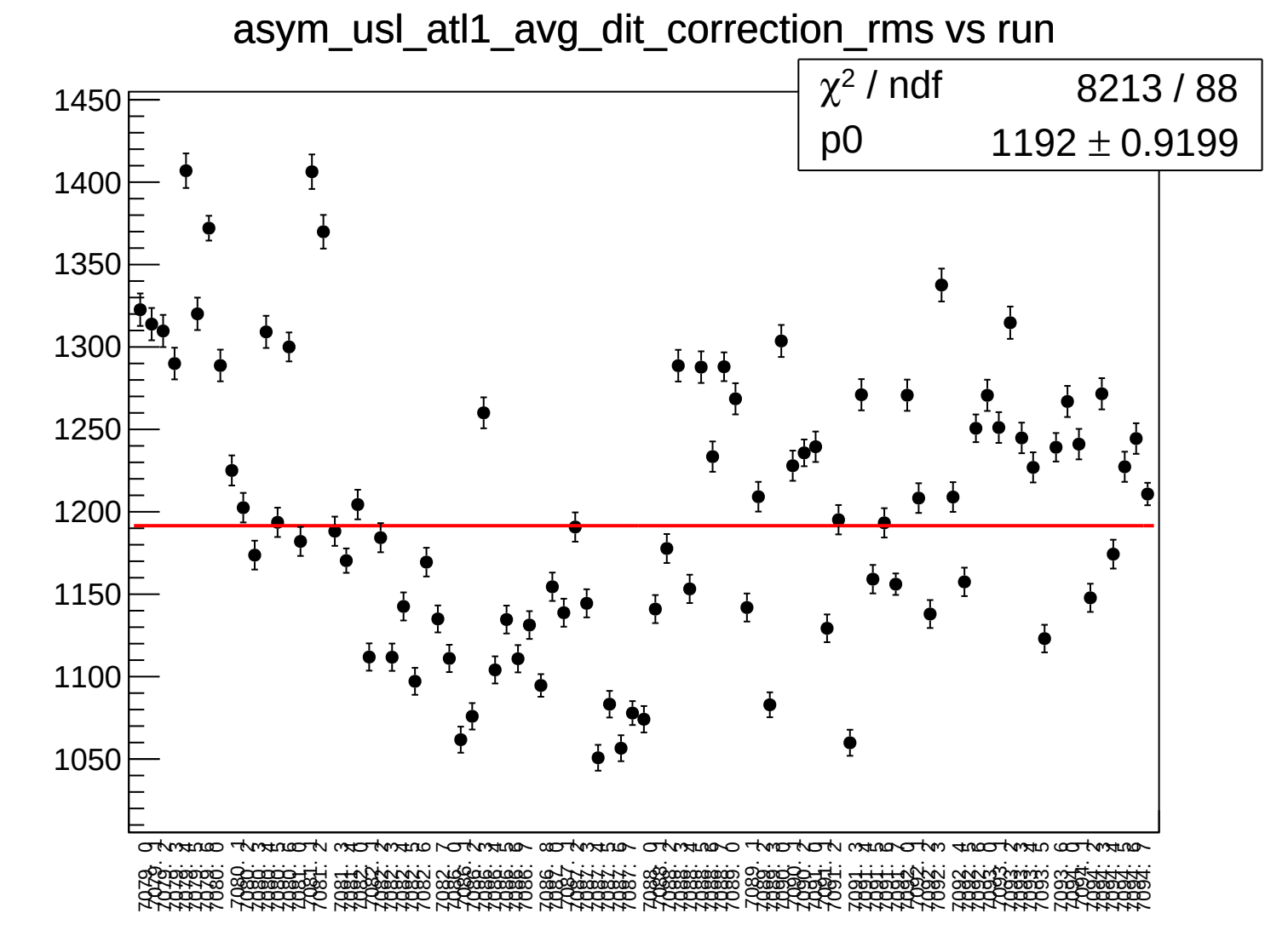

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 95.8 / 88
p0 1981 ± 1605
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −170.7
Std Dev 0
2
1
0
−1
−2
−3

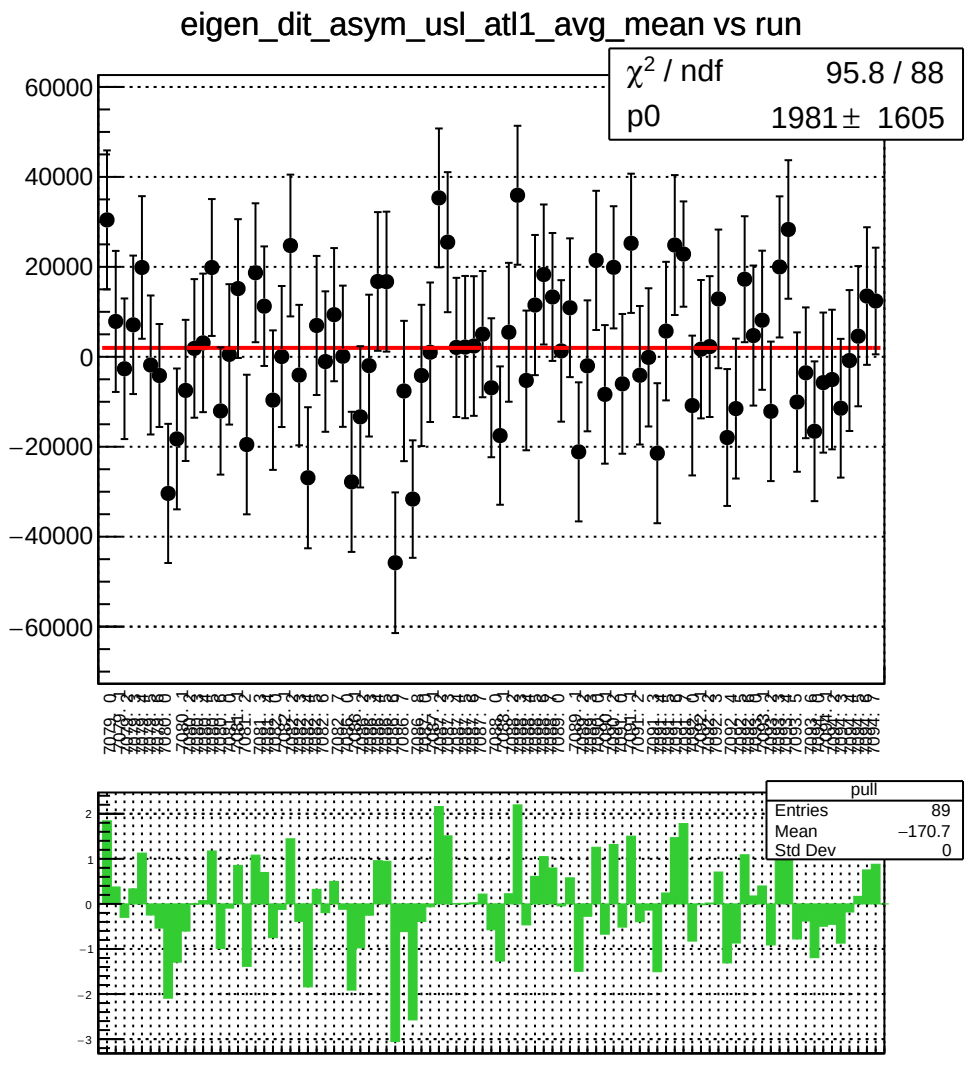

pull1D
Entries 89
Mean −0.007446
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

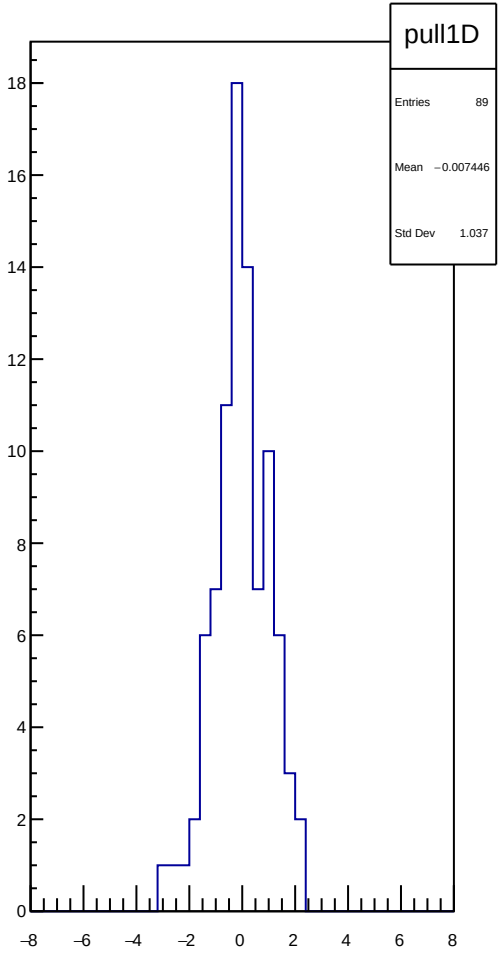

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 104.5 / 88
p0 1474 ± 1.135
1520
1510
1500
1490
1480
1470
1460
1450
1440
1430

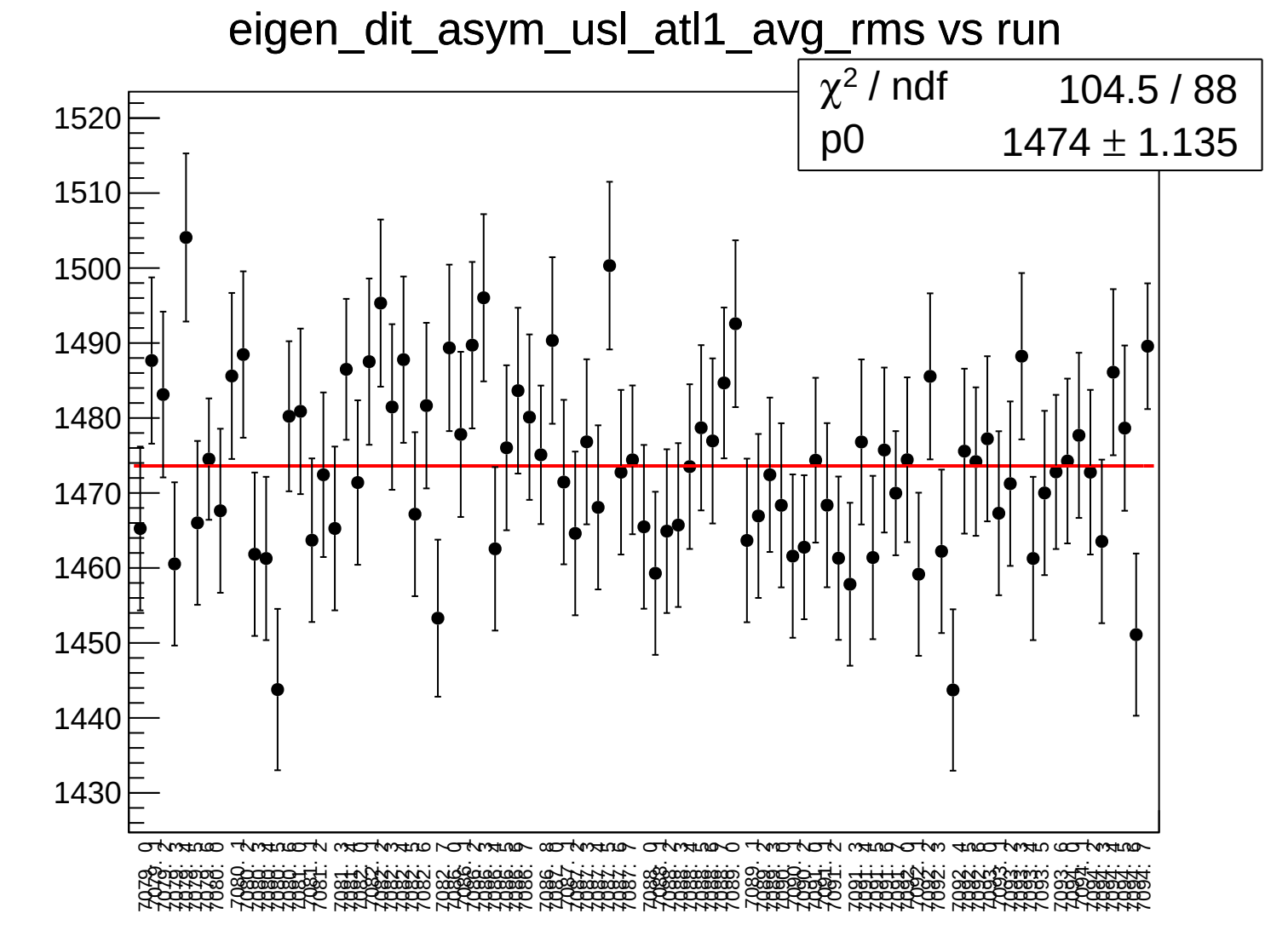

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 67.25 / 88
p0 −456.5 ± 1301
pull
Entries 89
Mean −729.5
Std Dev 0

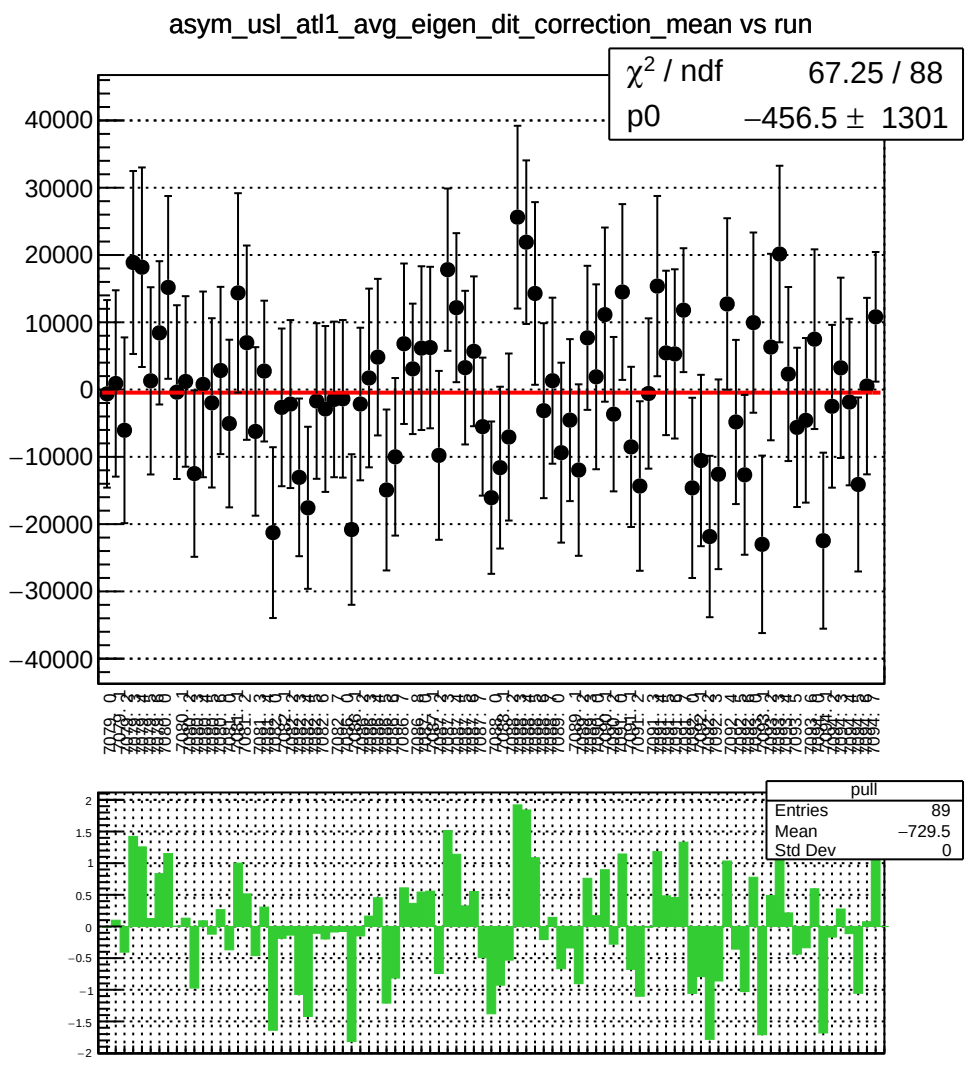

pull1D
Entries 89
Mean 0.001619
Std Dev 0.8693

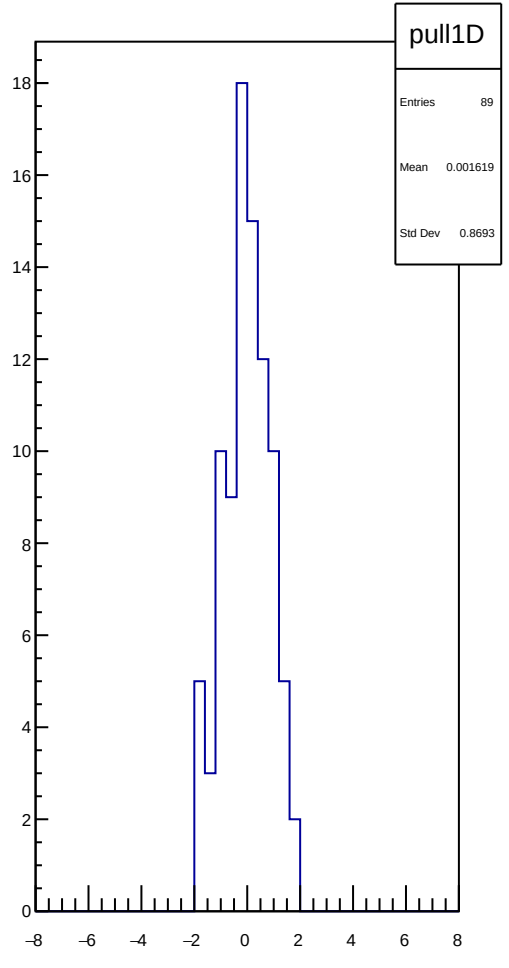

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 8213 / 88
p0 1192 ± 0.9199
1450
1400
1350
1300
1250
1200
1150
1100
1050

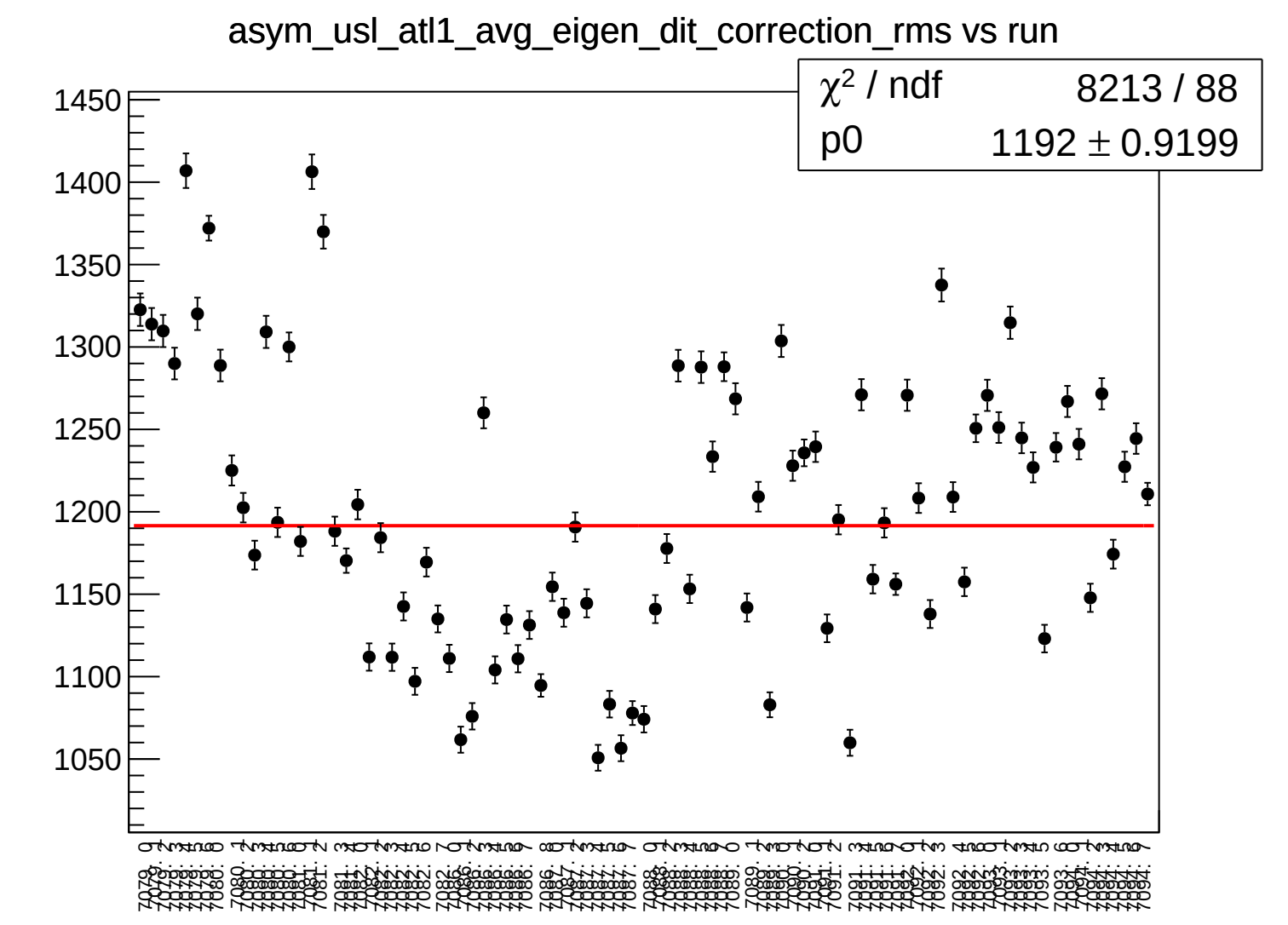

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 95.8 / 88
p0 1981 ± 1605
pull
Entries 89
Mean −170.7
Std Dev 0

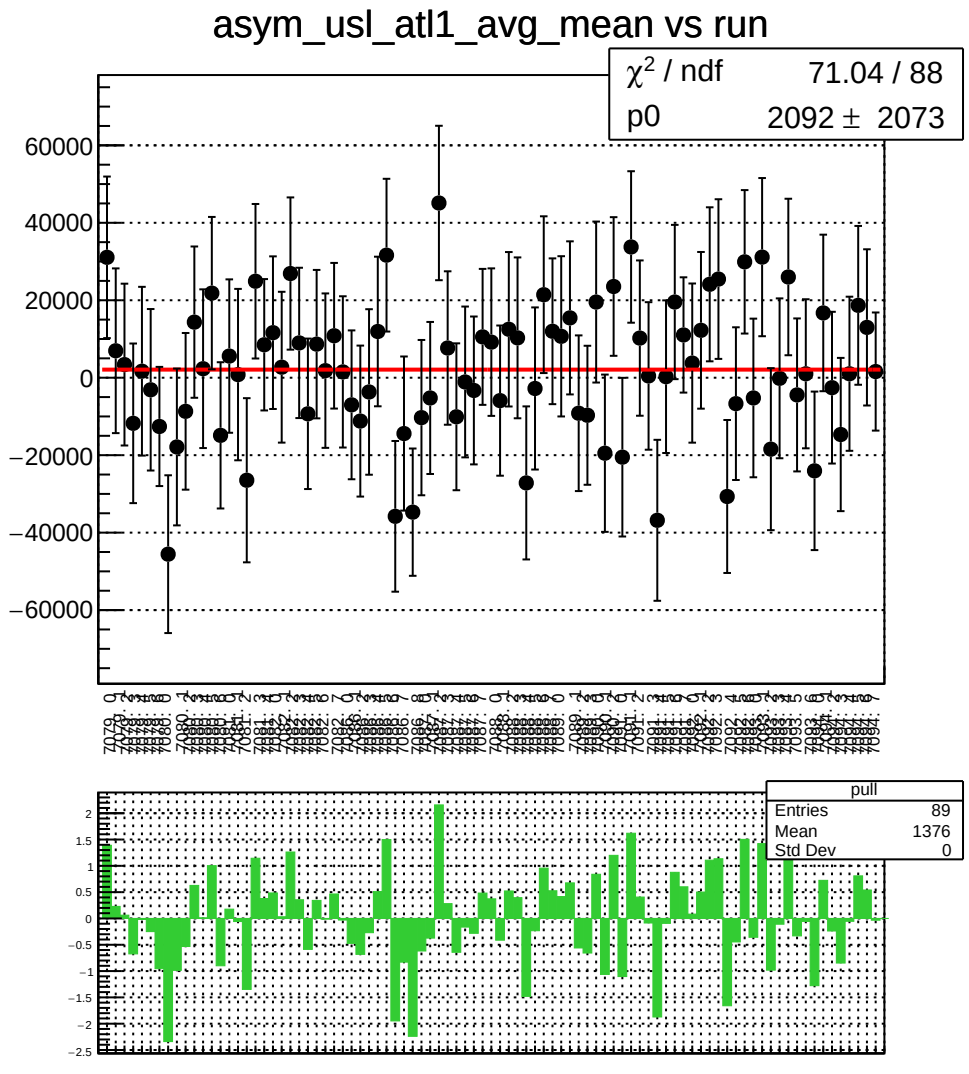

pull1D
Entries 89
Mean −0.007446
Std Dev 1.037

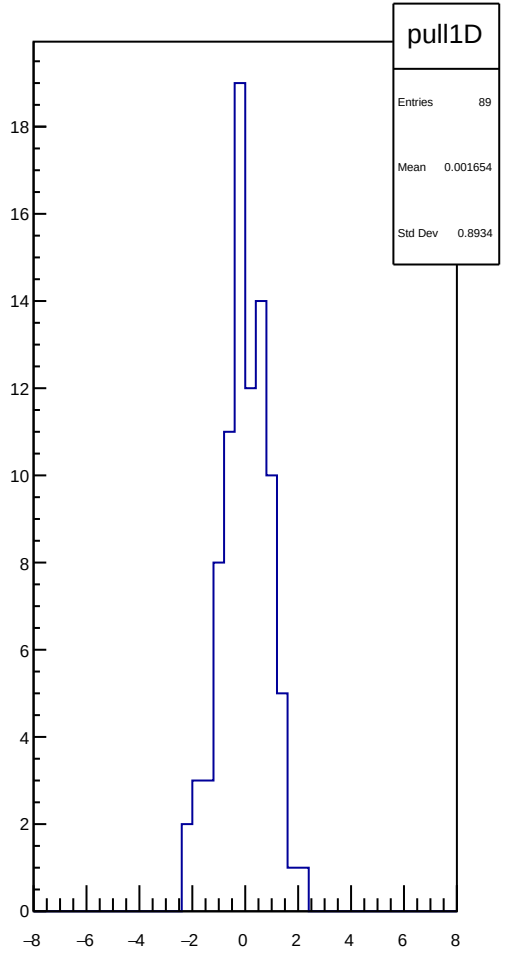

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 104.5 / 88
p0 1474 ± 1.135
1520
1510
1500
1490
1480
1470
1460
1450
1440
1430

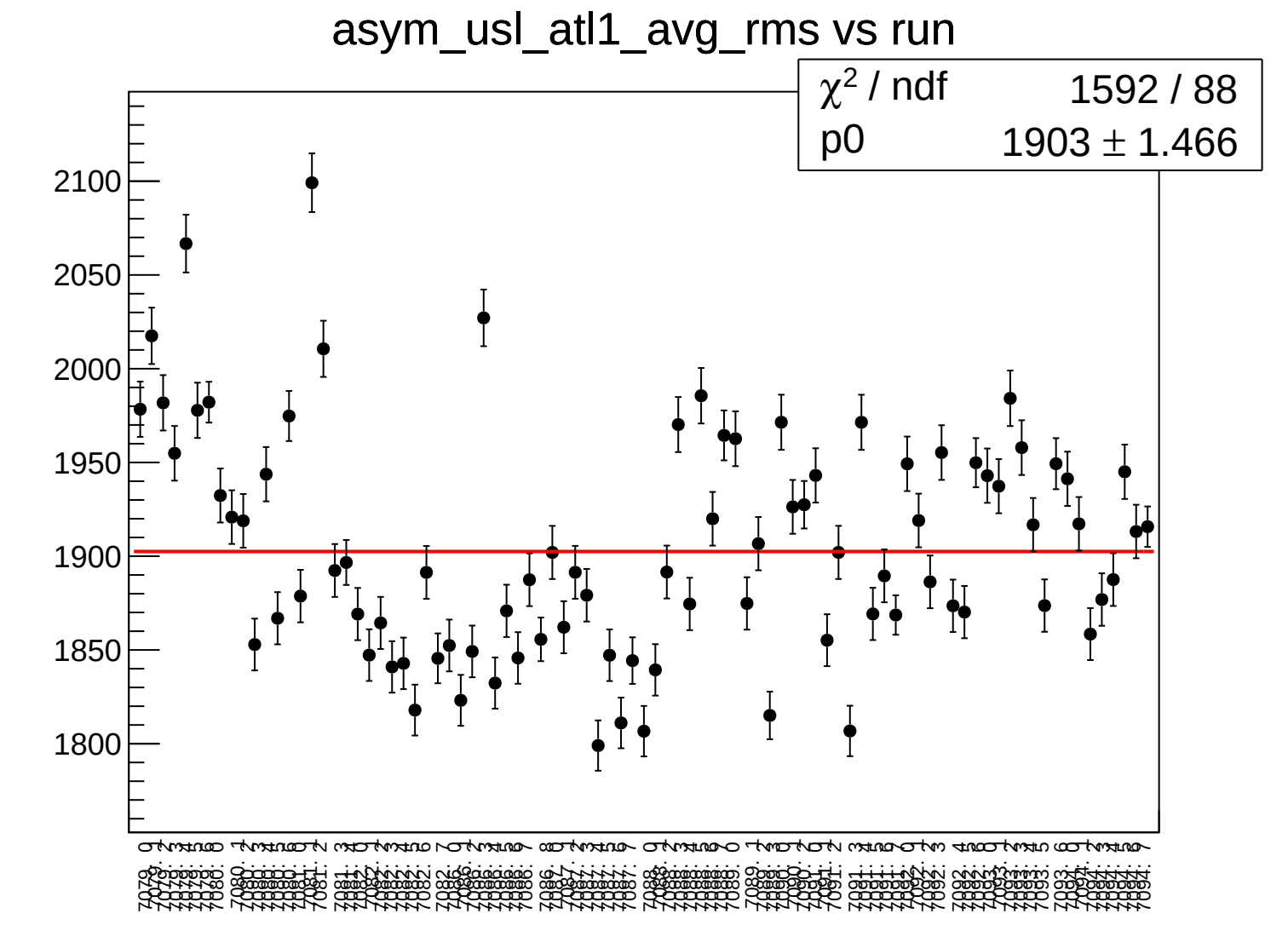

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.25 / 88
p0 −456.5 ± 1301
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −729.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

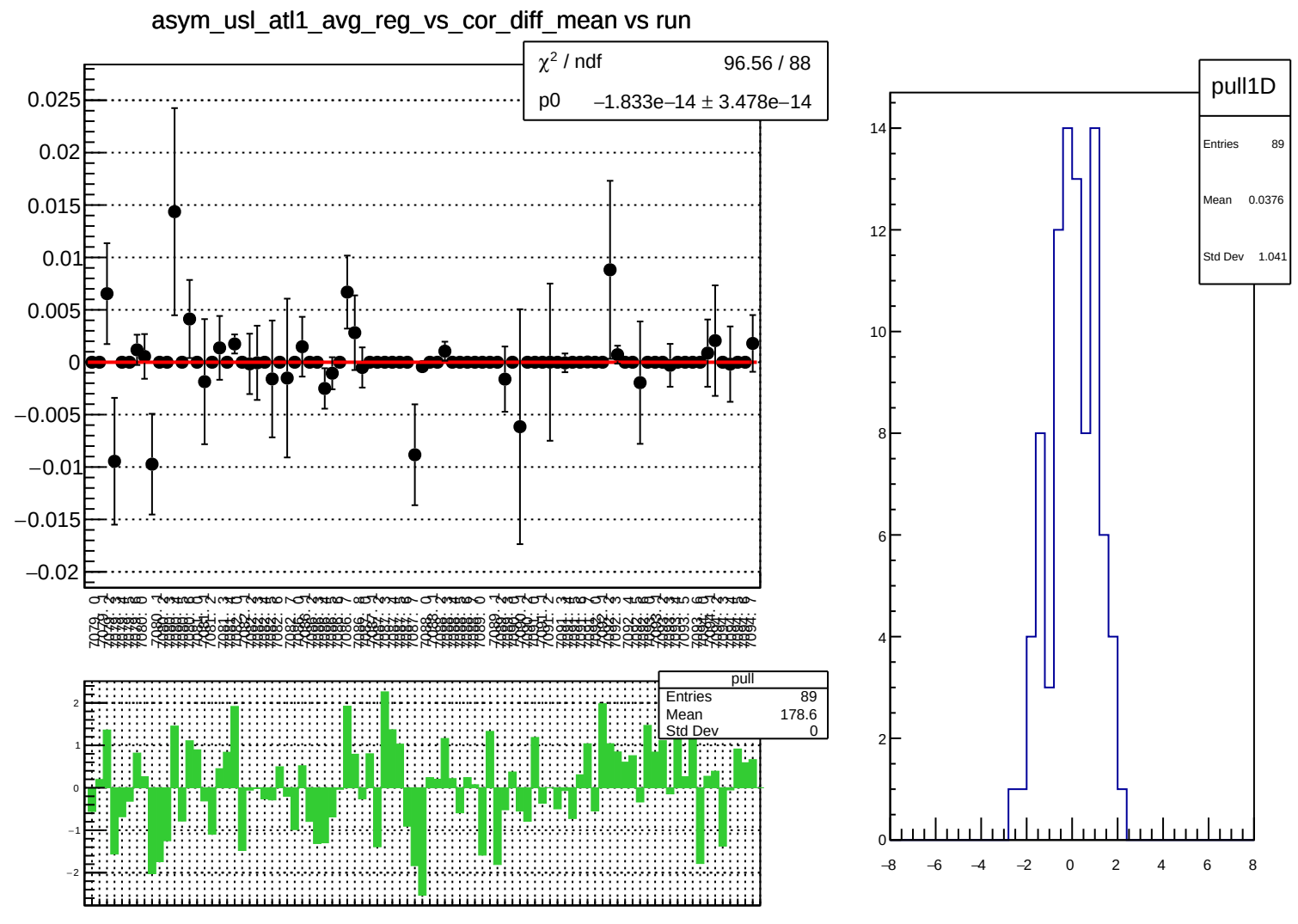

pull1D
Entries 89
Mean 0.001619
Std Dev 0.8693
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

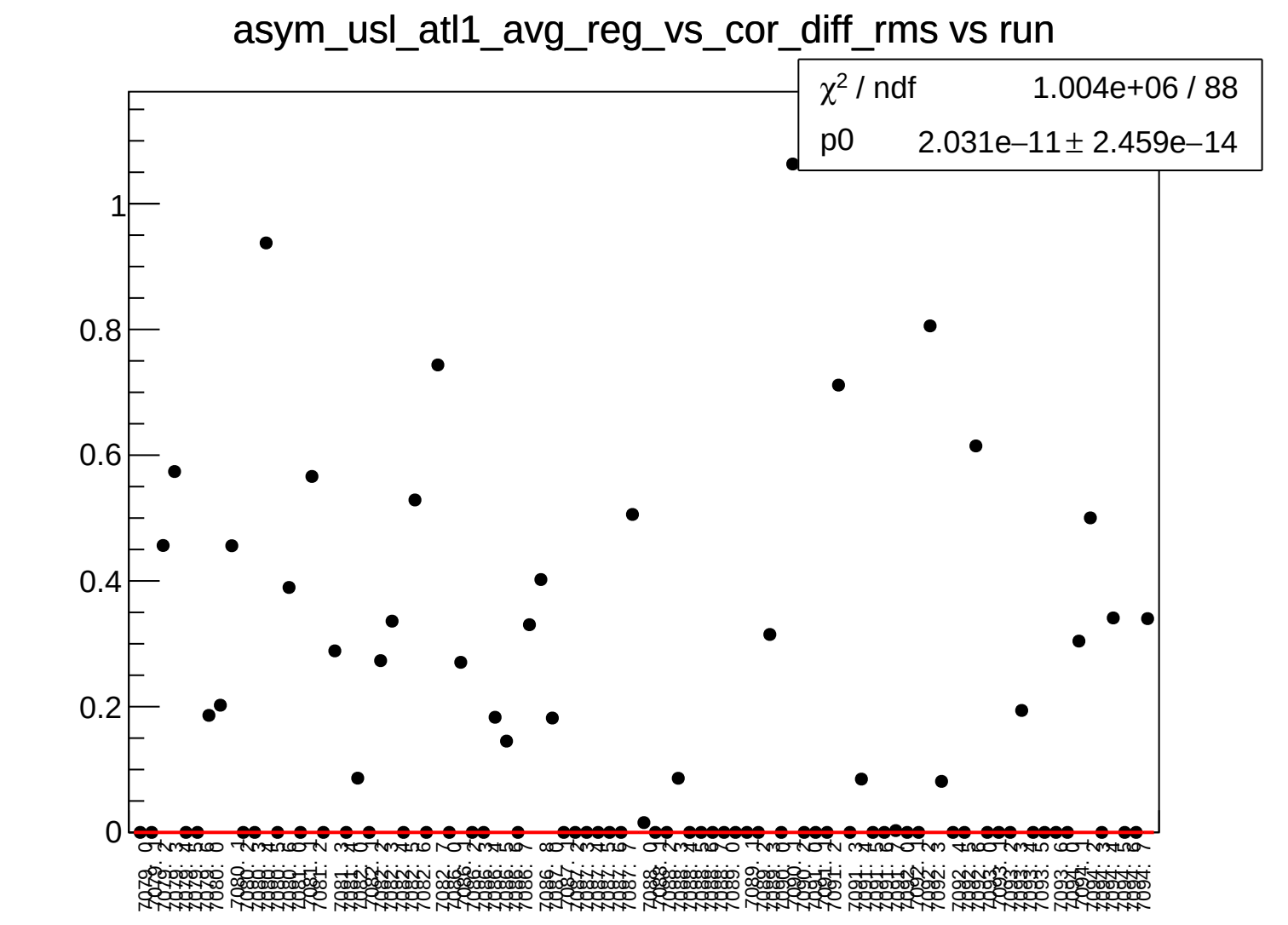

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8213 / 88
p0 1192 ± 0.9199
1450
1400
1350
1300
1250
1200
1150
1100
1050

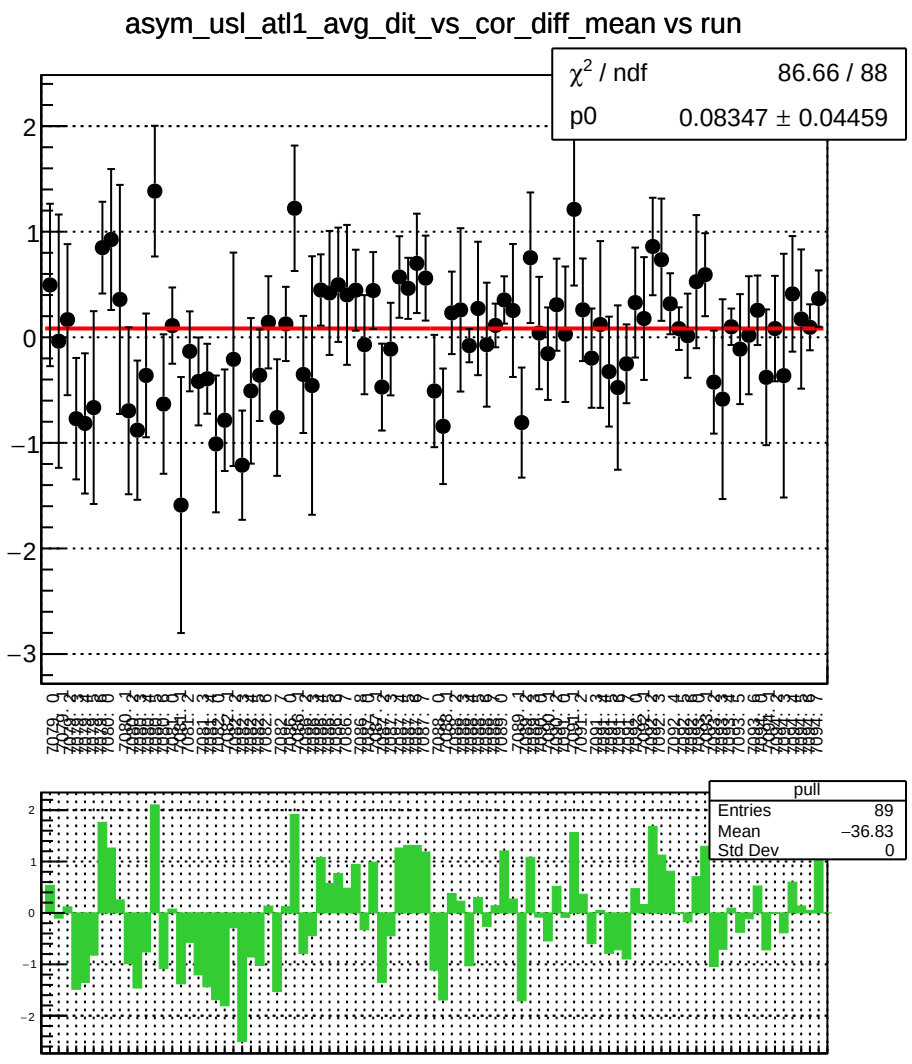

asym_usl_atl1_avg_mean vs run
χ² / ndf 71.04 / 88
p0 2092 ± 2073
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1376
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

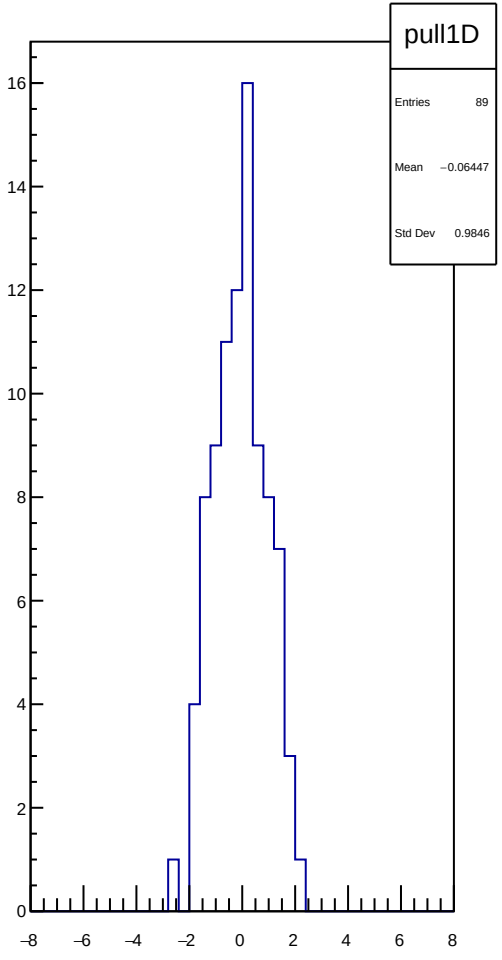

pull1D
Entries 89
Mean 0.001654
Std Dev 0.8934
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

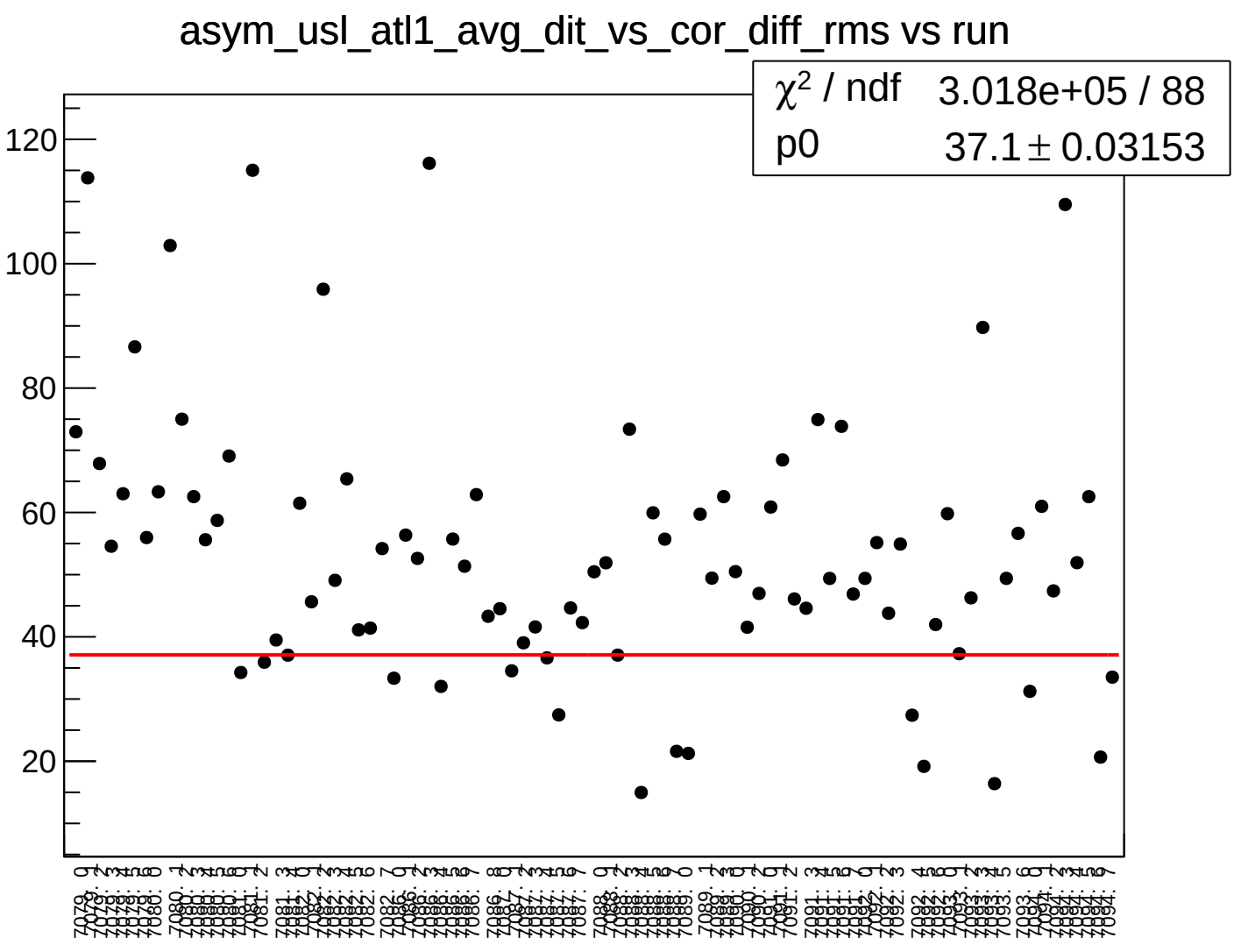

asym_usl_atl1_avg_rms vs run
χ² / ndf 1592 / 88
p0 1903 ± 1.466
2100
2050
2000
1950
1900
1850
1800

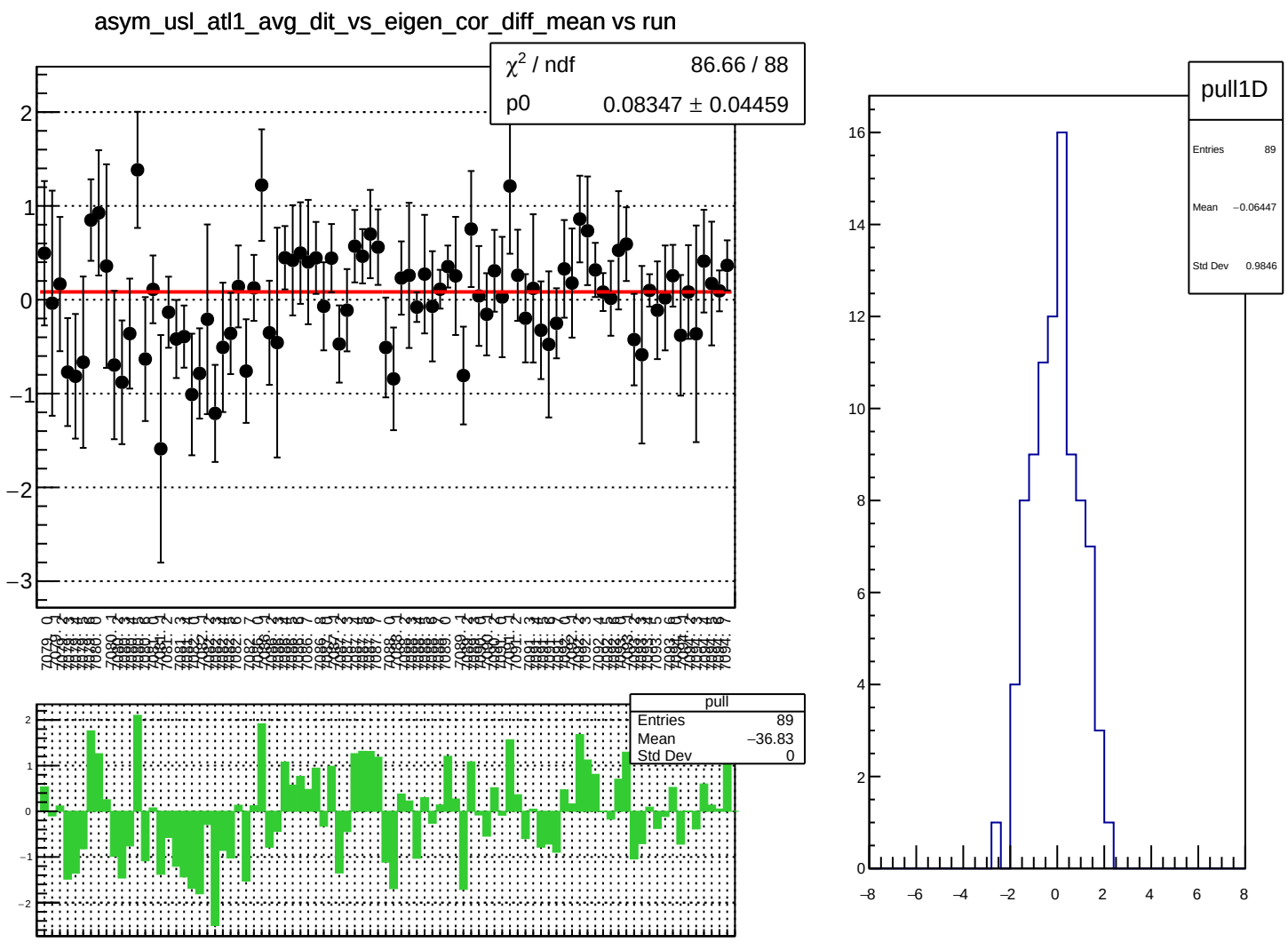

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.56 / 88
p0 −1.833e−14 ± 3.478e−14
pull
Entries 89
Mean 178.6
Std Dev 0
pull1D
Entries 89
Mean 0.0376
Std Dev 1.041

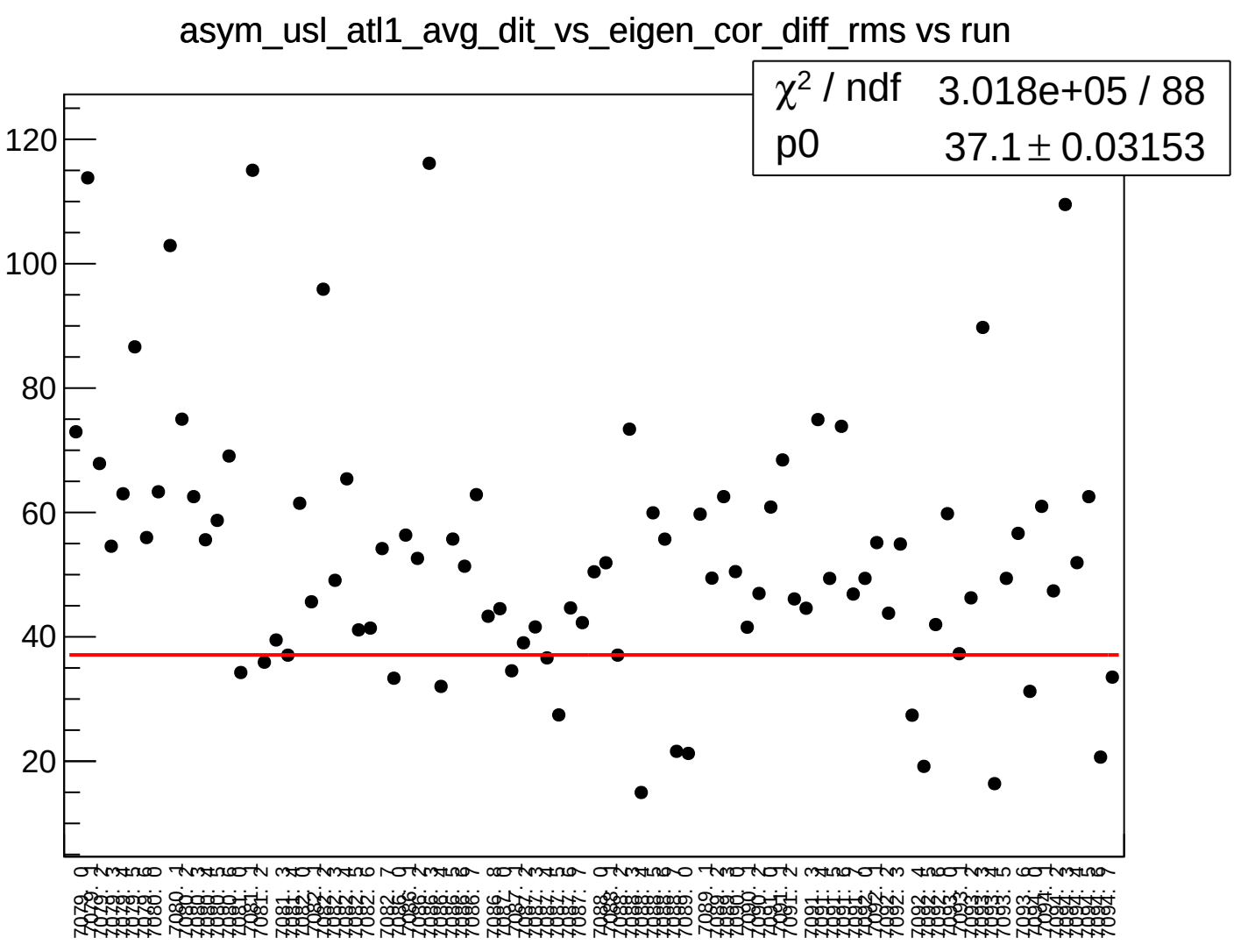

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.004e+06 / 88
p0 2.031e−11 ± 2.459e−14
1
0.8
0.6
0.4
0.2
0

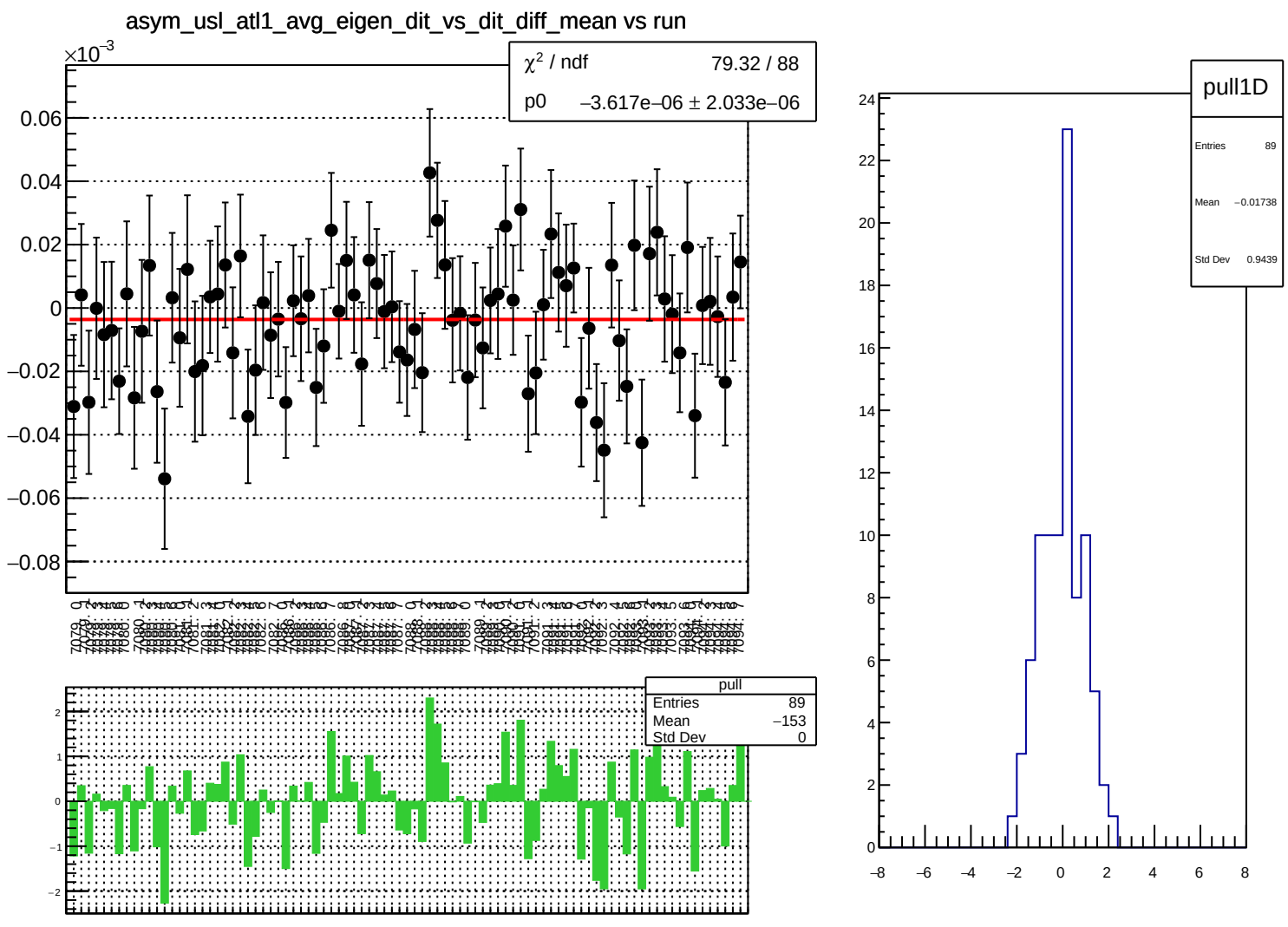

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.66 / 88
p0 0.08347 ± 0.04459
pull
Entries 89
Mean −36.83
Std Dev 0

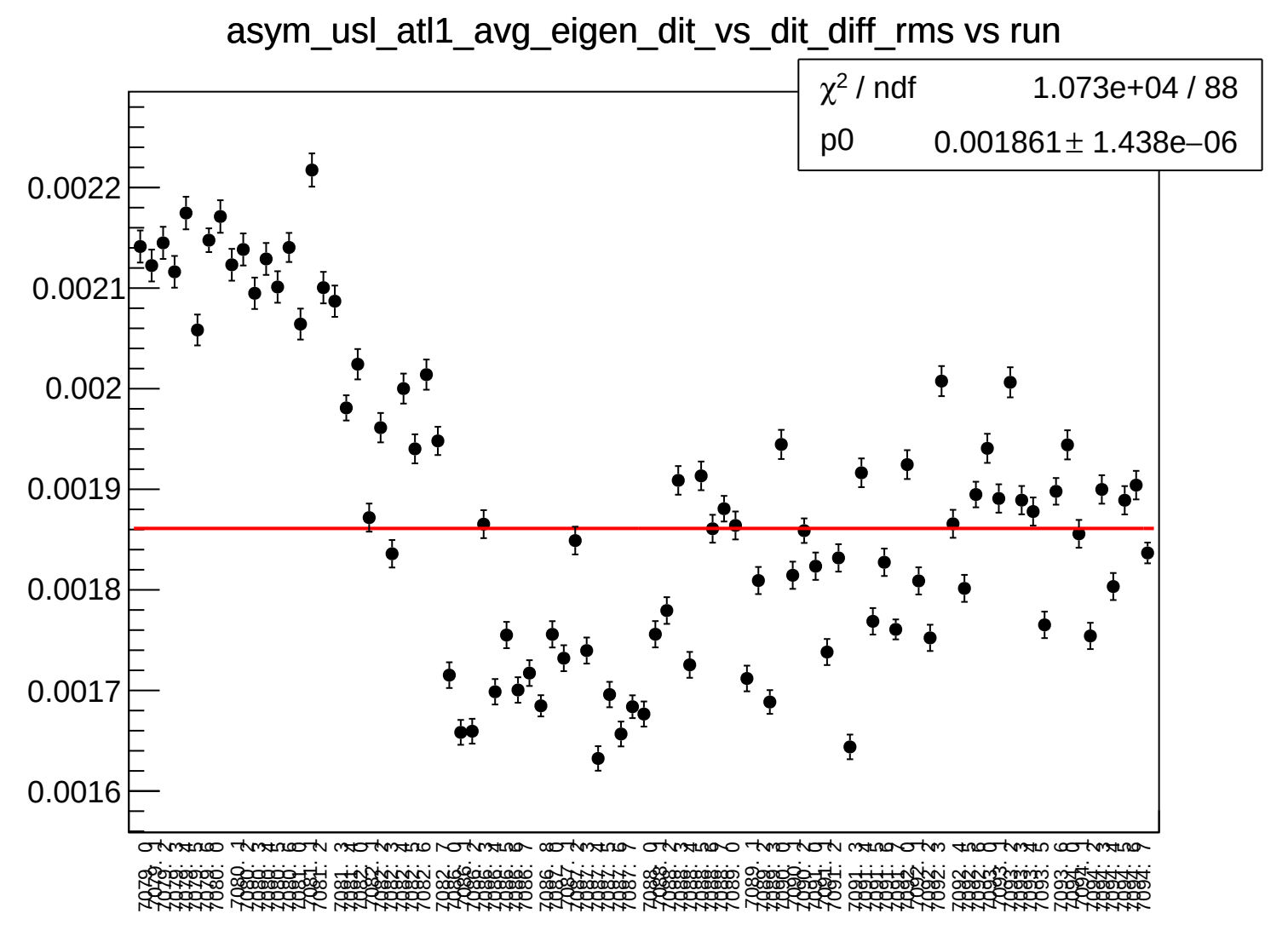

pull1D
Entries 89
Mean −0.06447
Std Dev 0.9846

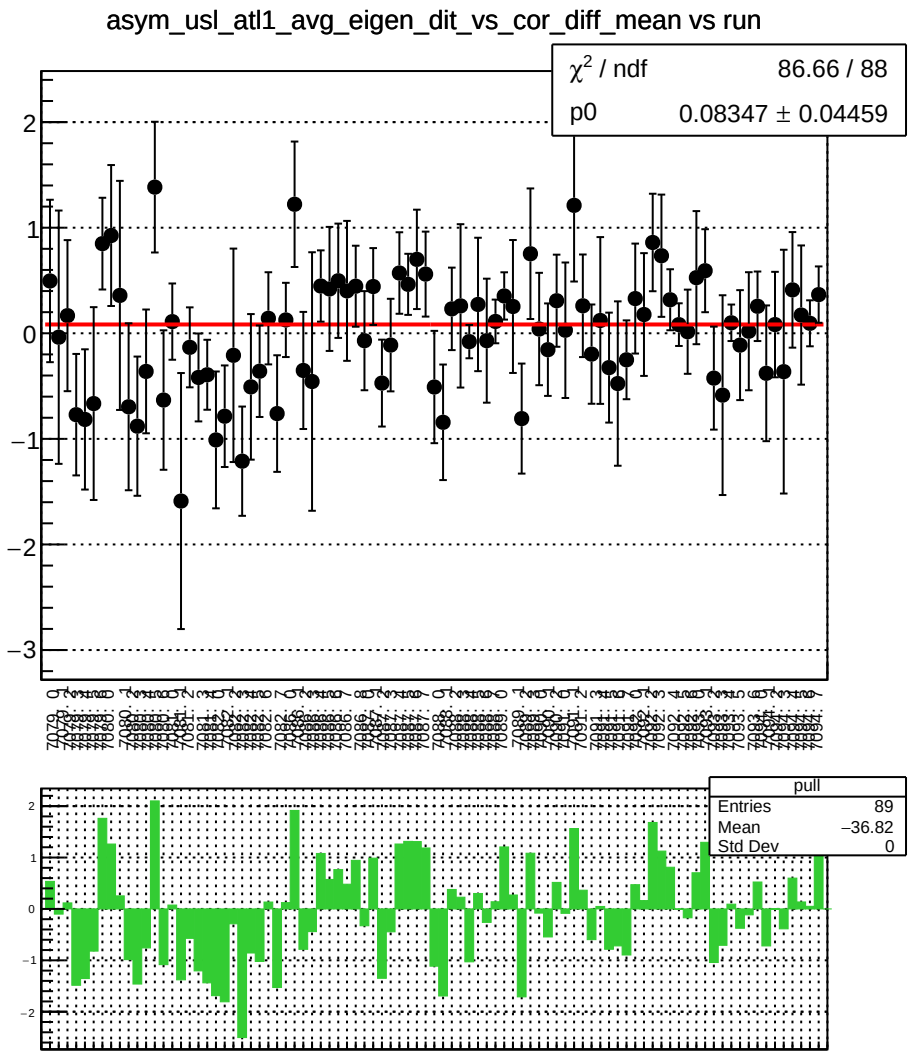

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.018e+05 / 88
p0 37.1 ± 0.03153
120
100
80
60
40
20

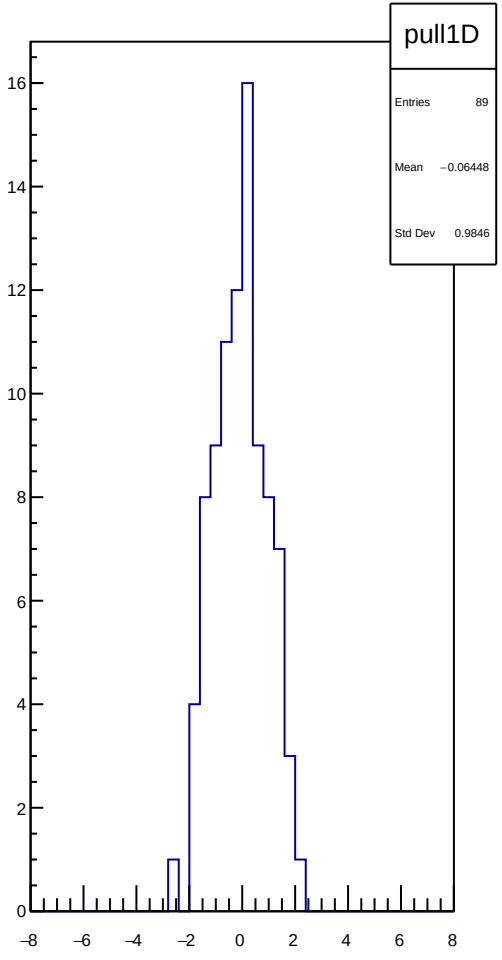

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.66 / 88
p0 0.08347 ± 0.04459
pull
Entries 89
Mean −36.83
Std Dev 0
pull1D
Entries 89
Mean −0.06447
Std Dev 0.9846

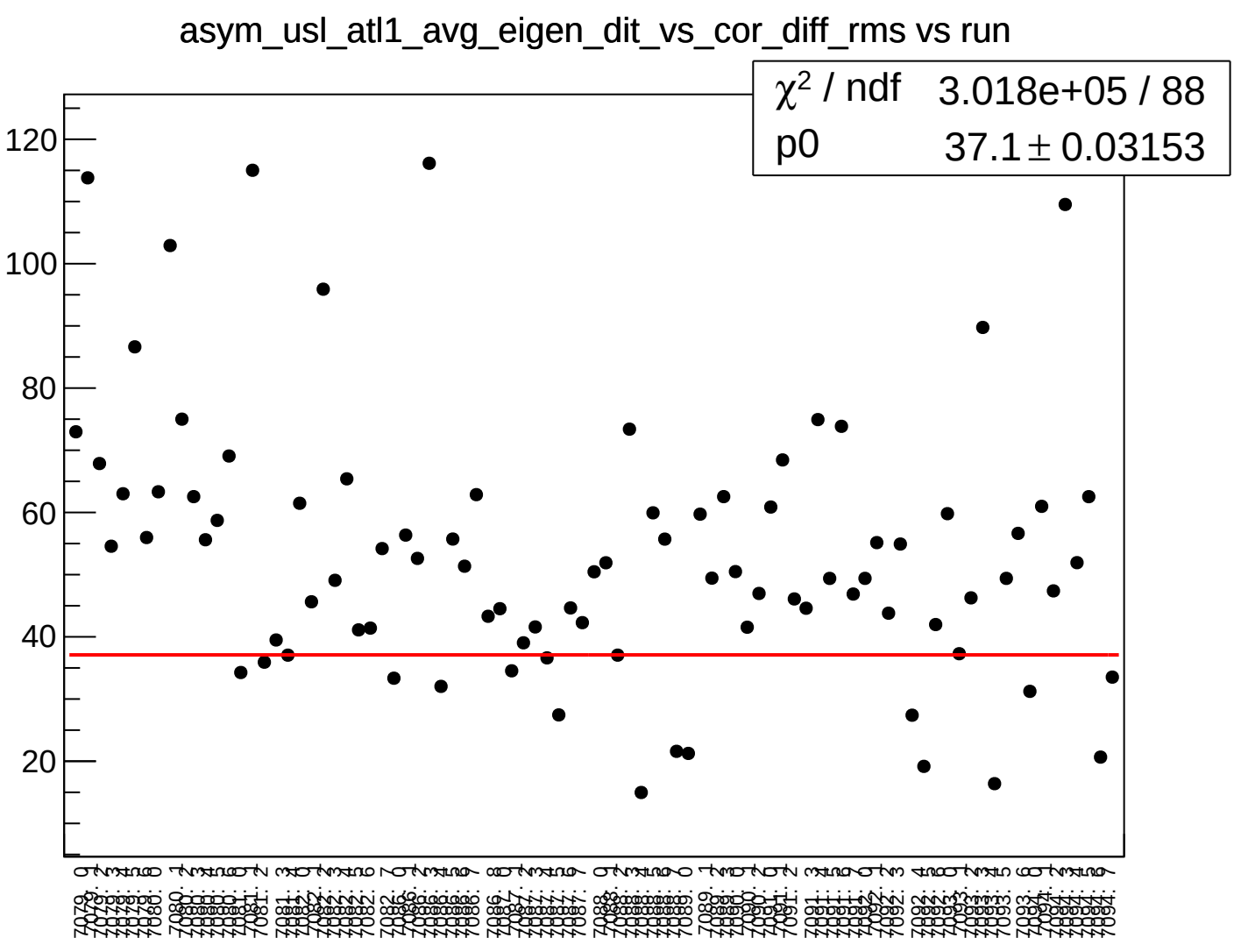

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.018e+05 / 88
p0 37.1 ± 0.03153
120
100
80
60
40
20

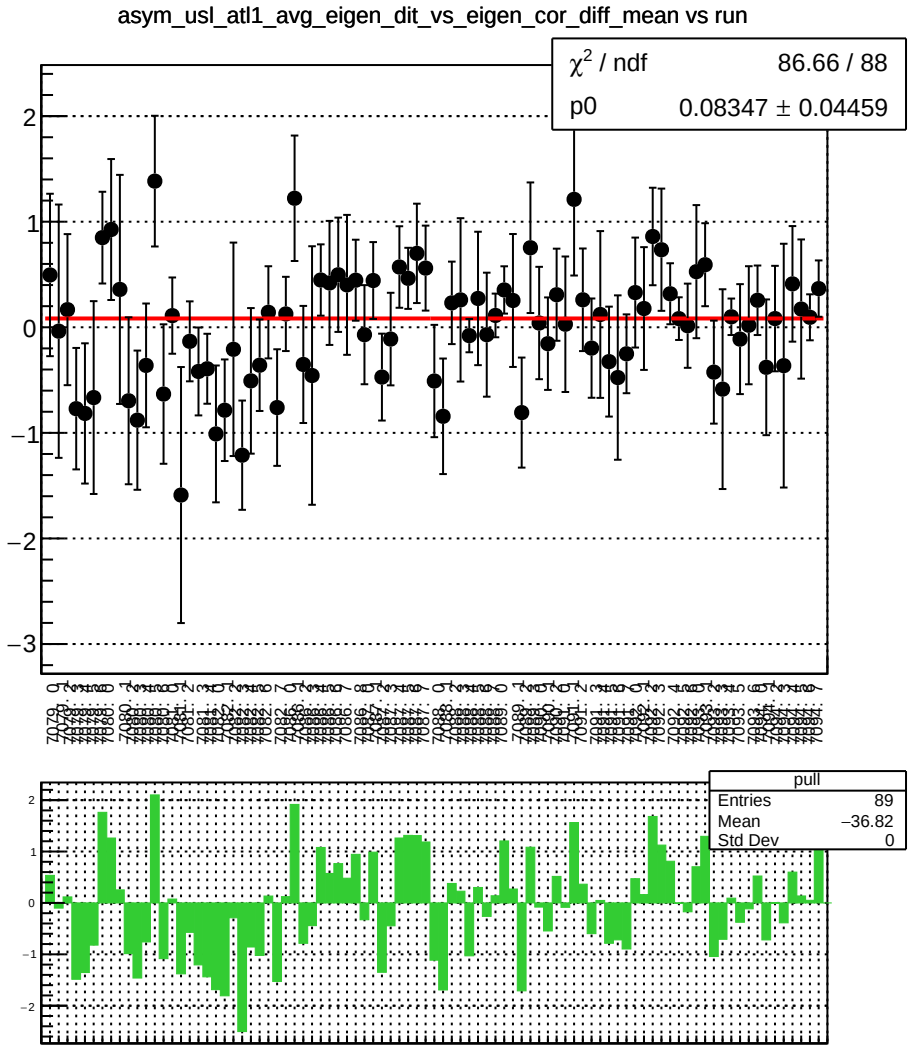

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.32 / 88
p0 −3.617e−06 ± 2.033e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −153
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01738
Std Dev 0.9439
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

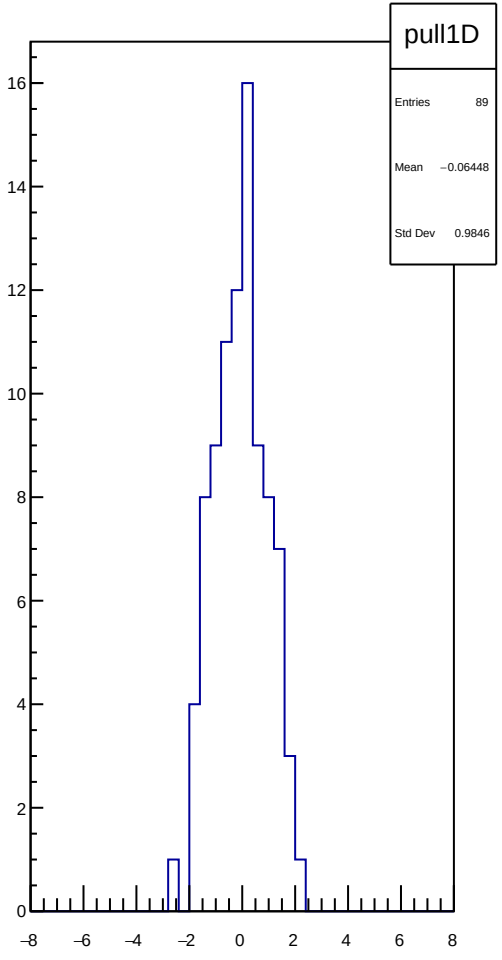

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.073e+04 / 88
p0 0.001861 ± 1.438e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

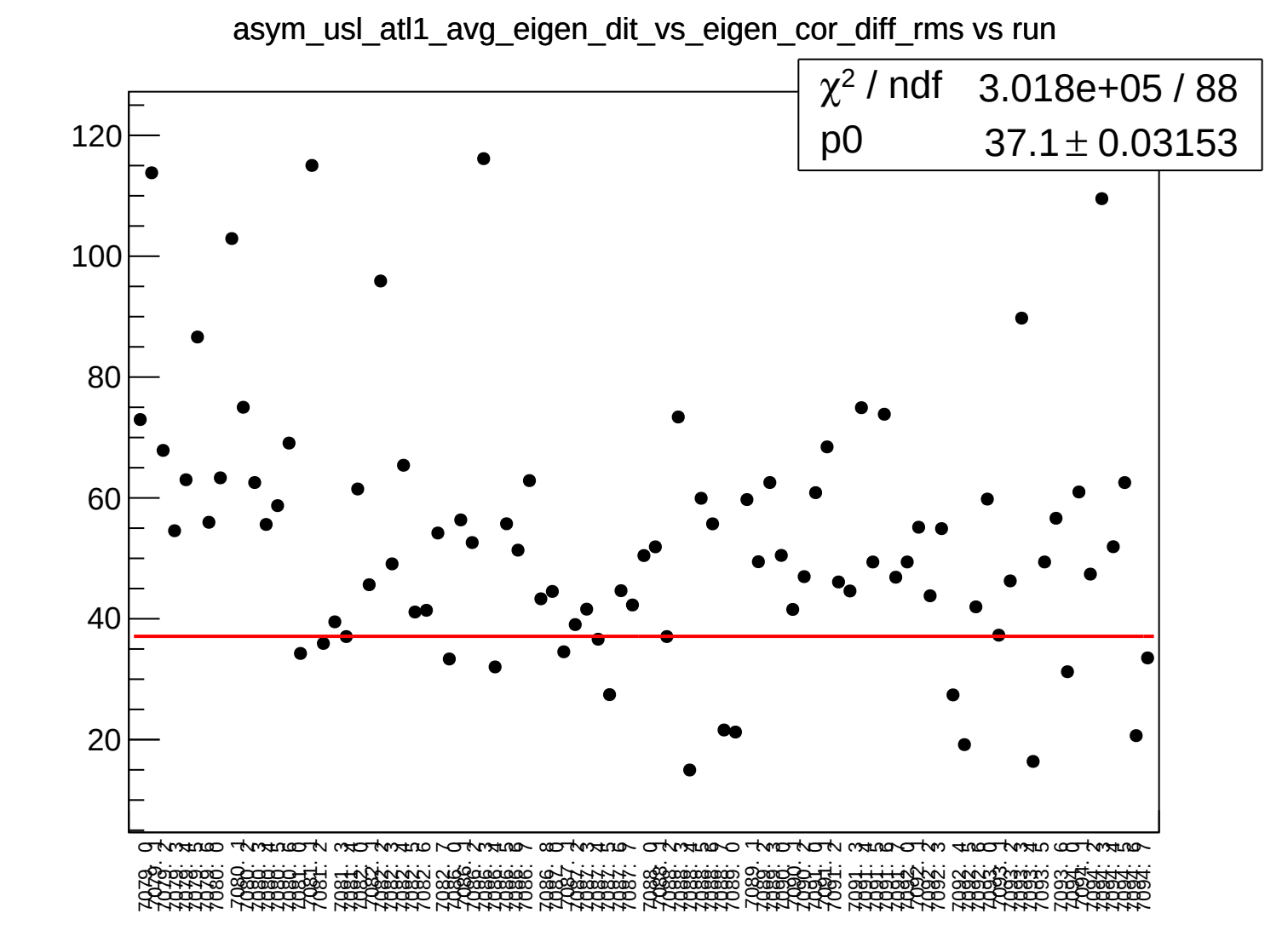

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.66 / 88
p0 0.08347 ± 0.04459
pull
Entries 89
Mean −36.82
Std Dev 0

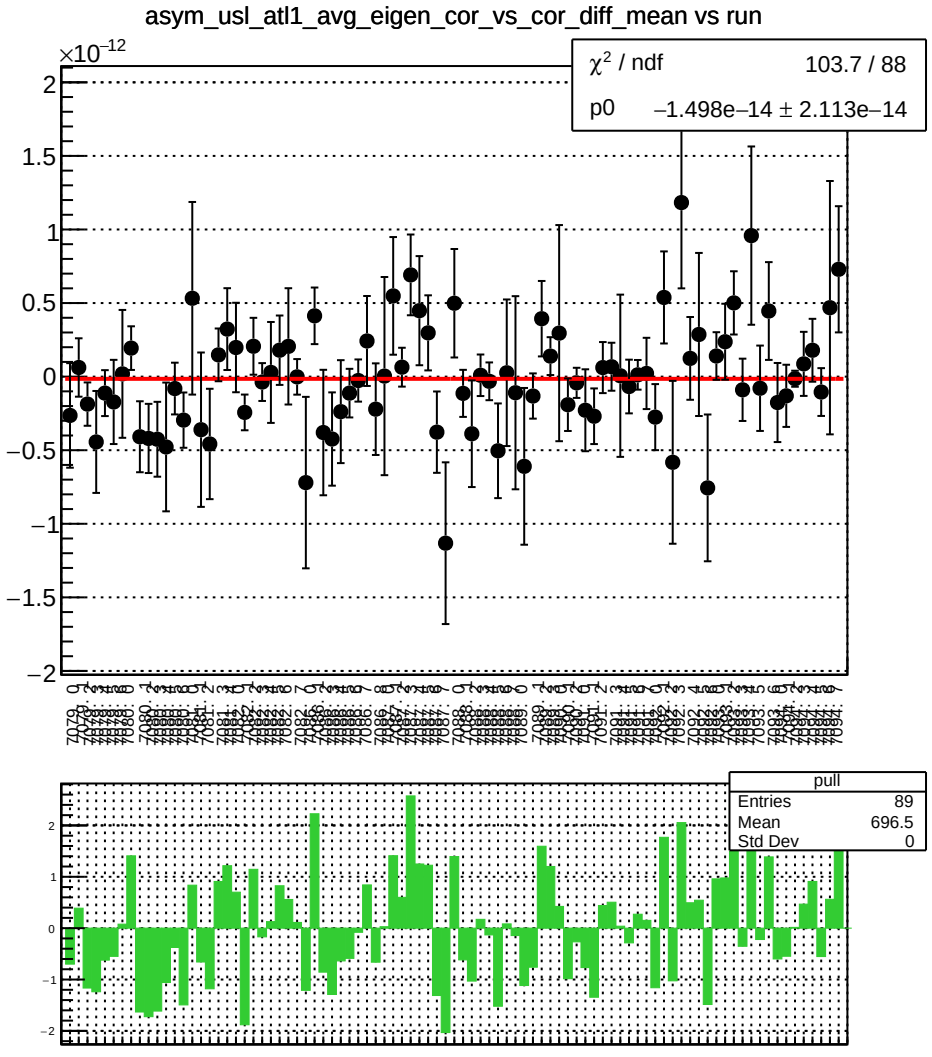

pull1D
Entries 89
Mean −0.06448
Std Dev 0.9846

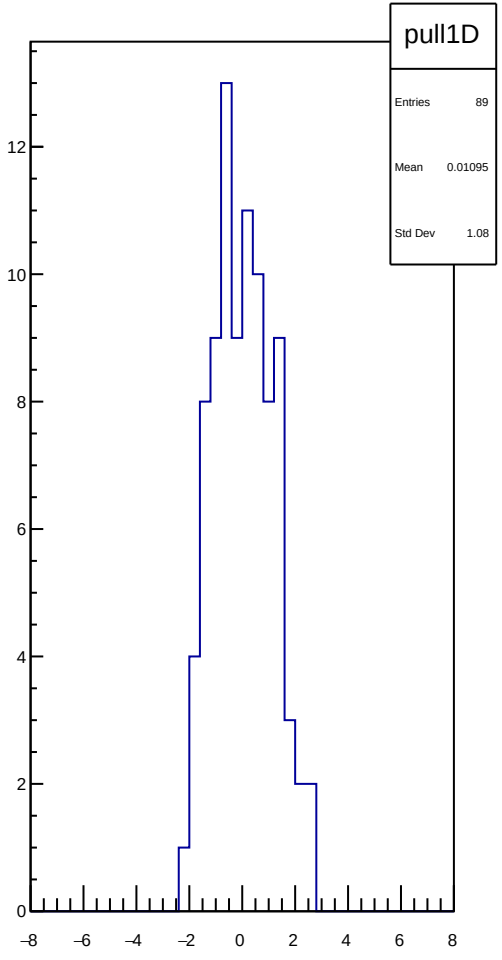

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.018e+05 / 88
p0 37.1 ± 0.03153
120
100
80
60
40
20

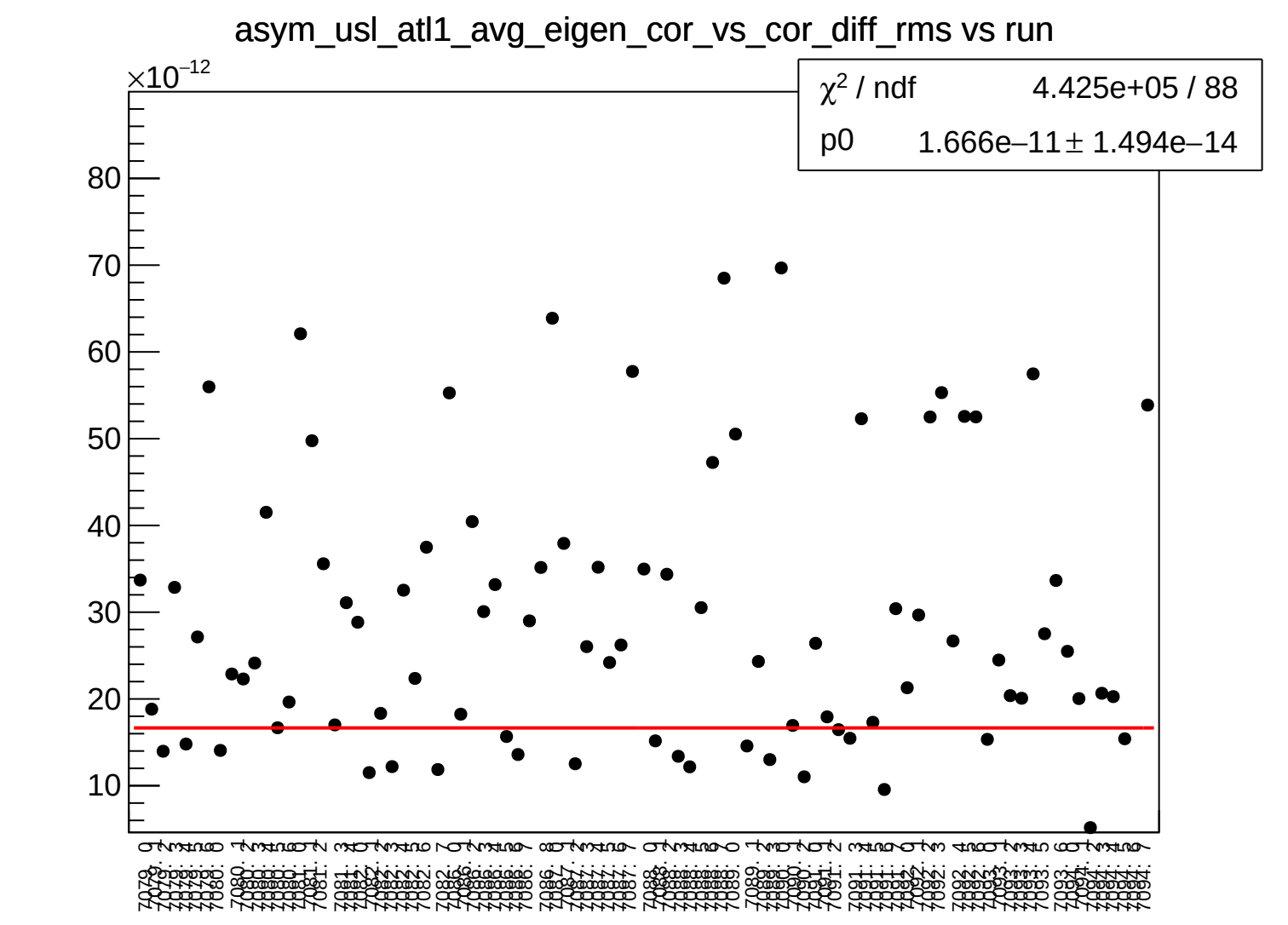

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.66 / 88
p0 0.08347 ± 0.04459
pull
Entries 89
Mean −36.82
Std Dev 0

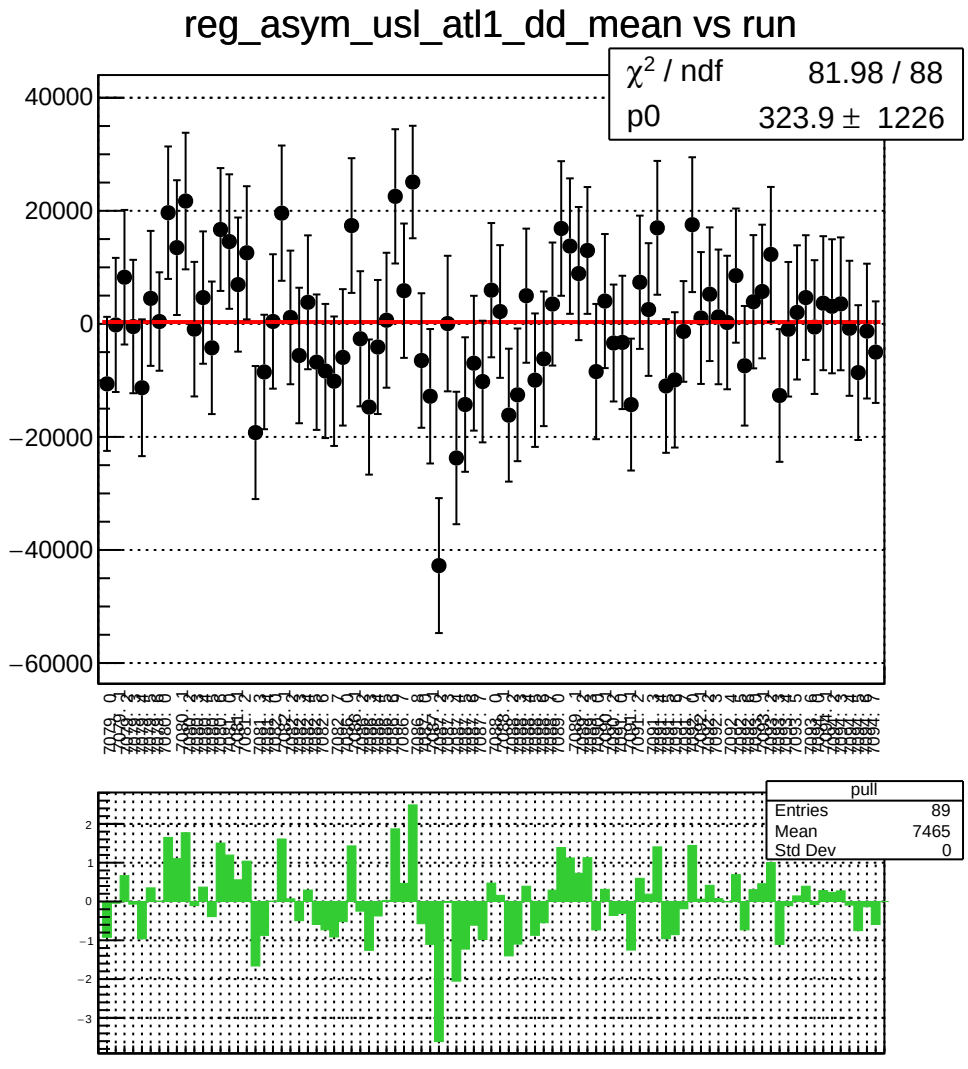

pull1D
Entries 89
Mean −0.06448
Std Dev 0.9846

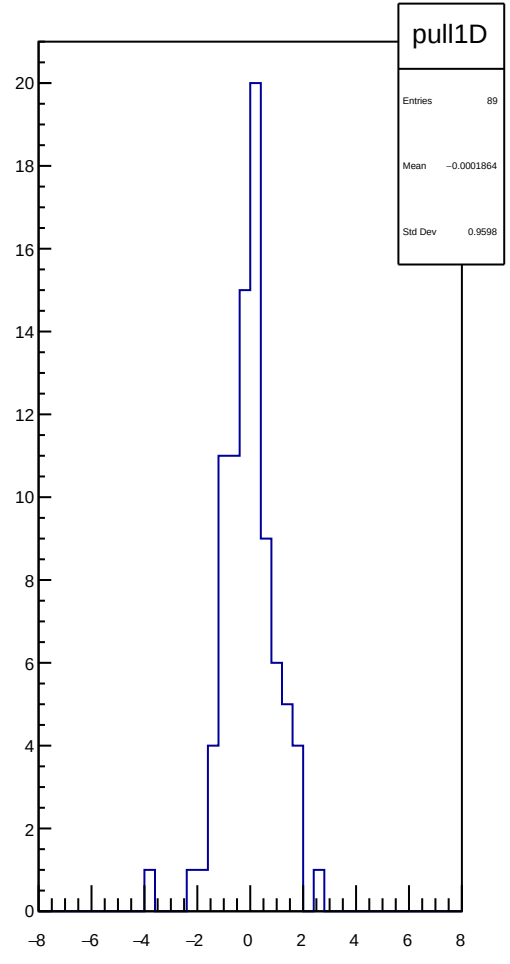

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.018e+05 / 88
p0 37.1 ± 0.03153
120
100
80
60
40
20

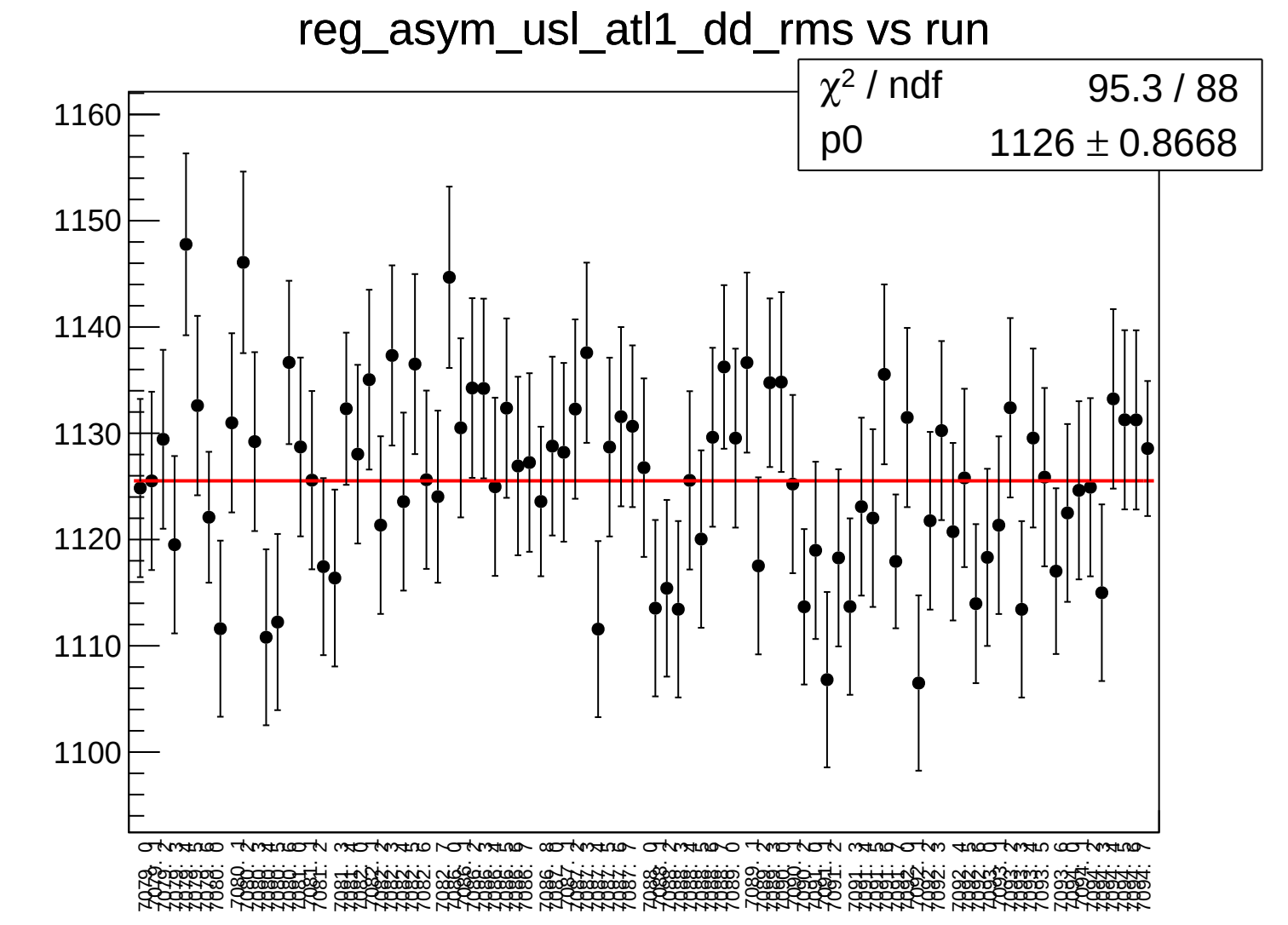

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.7 / 88
p0 −1.498e−14 ± 2.113e−14
pull
Entries 89
Mean 696.5
Std Dev 0

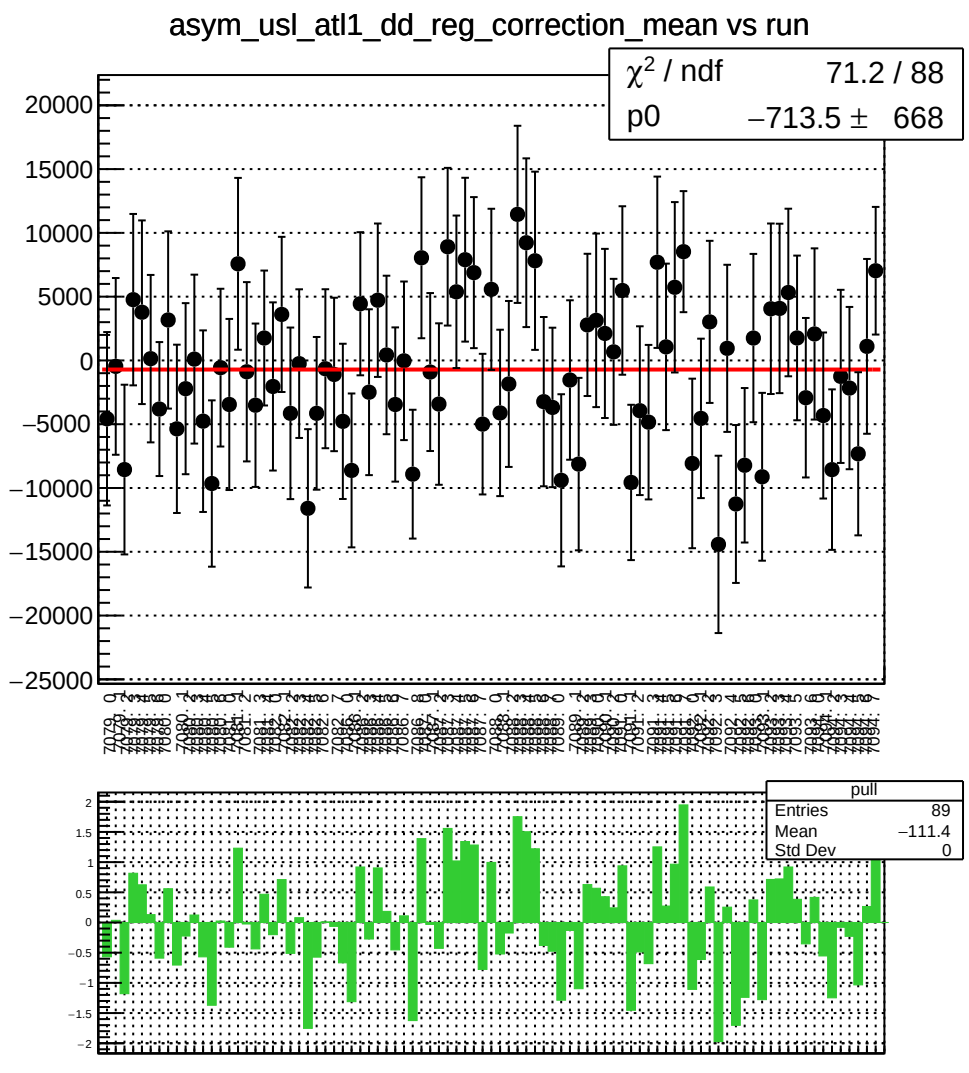

pull1D
Entries 89
Mean 0.01095
Std Dev 1.08

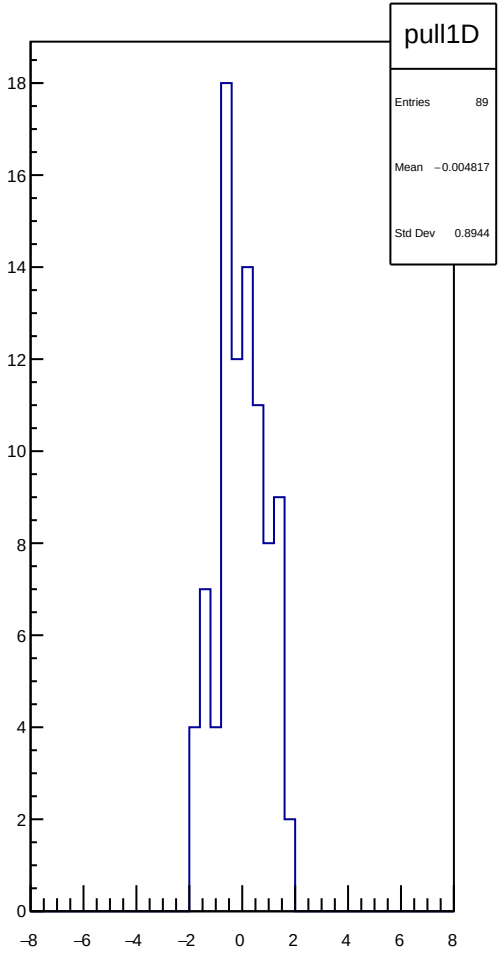

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.425e+05 / 88
p0 1.666e−11 ± 1.494e−14
80
70
60
50
40
30
20
10

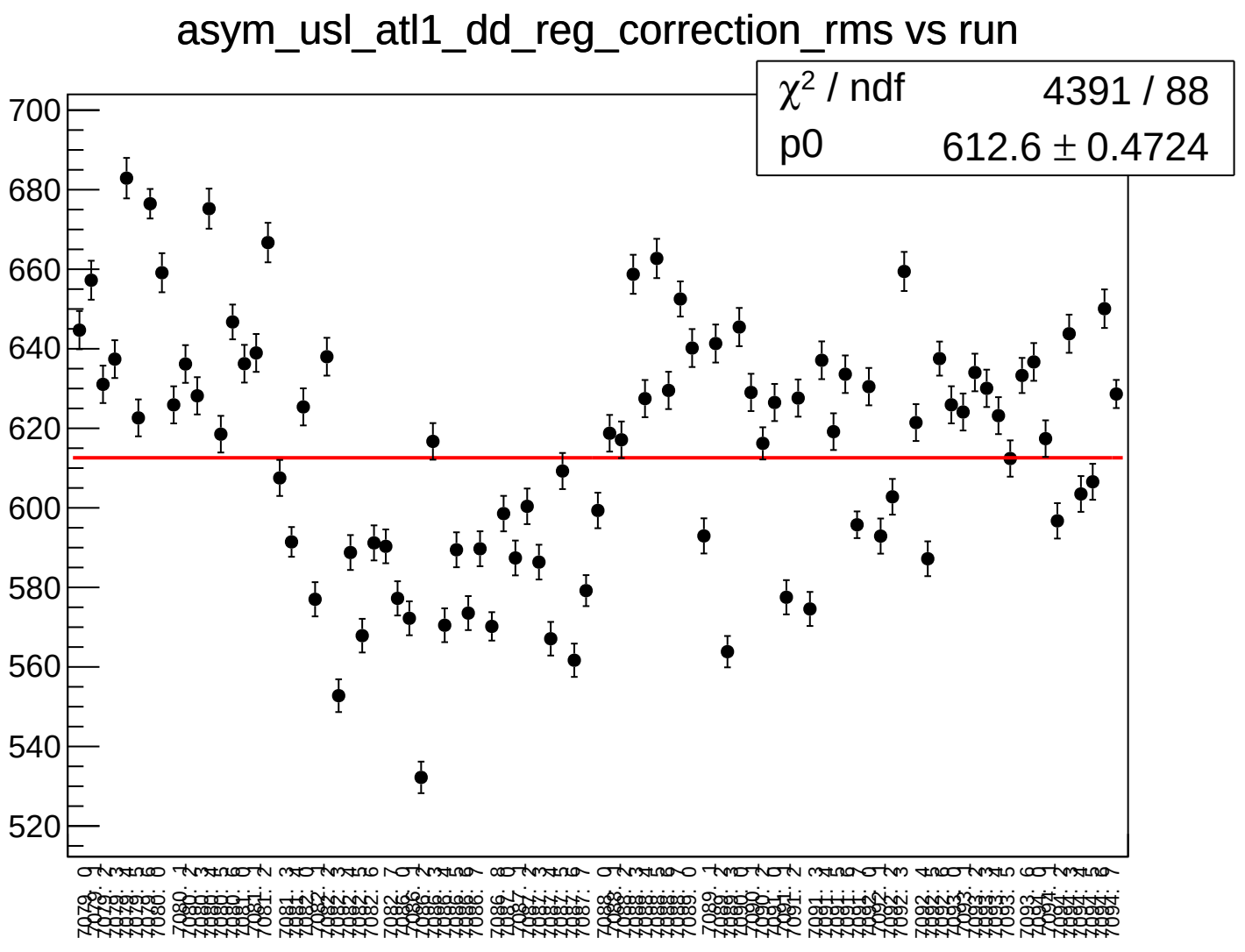

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.98 / 88
p0 323.9 ± 1226
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 7465
Std Dev 0
2
1
0
−1
−2
−3

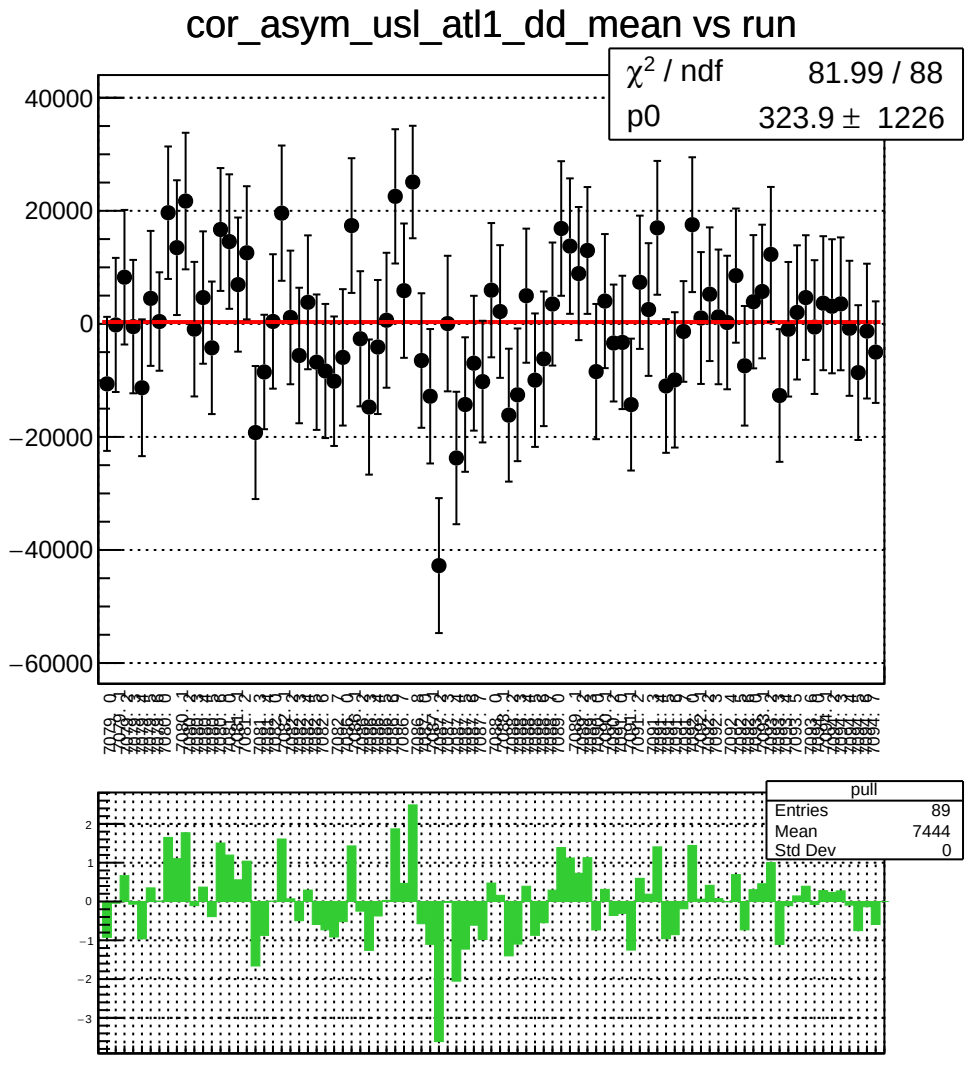

pull1D
Entries 89
Mean −0.0001864
Std Dev 0.9598
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

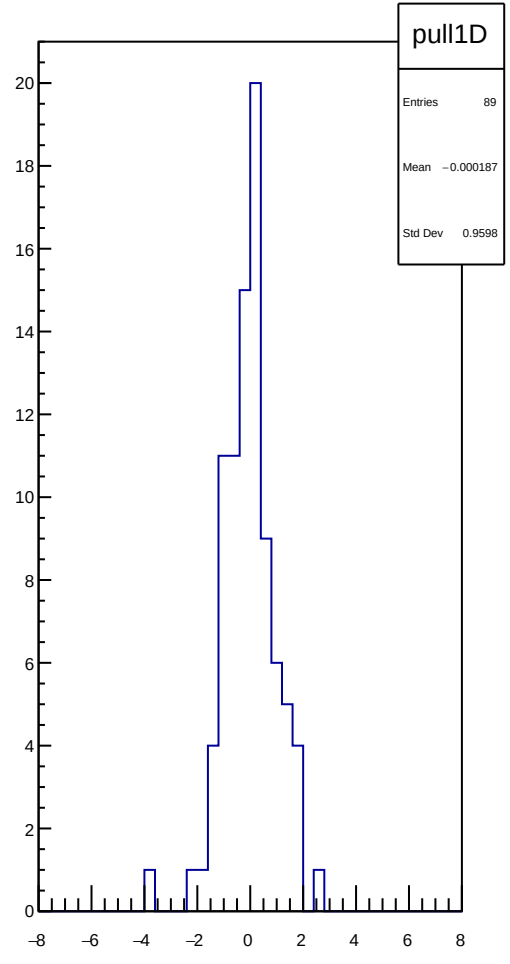

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 95.3 / 88
p0 1126 ± 0.8668
1160
1150
1140
1130
1120
1110
1100

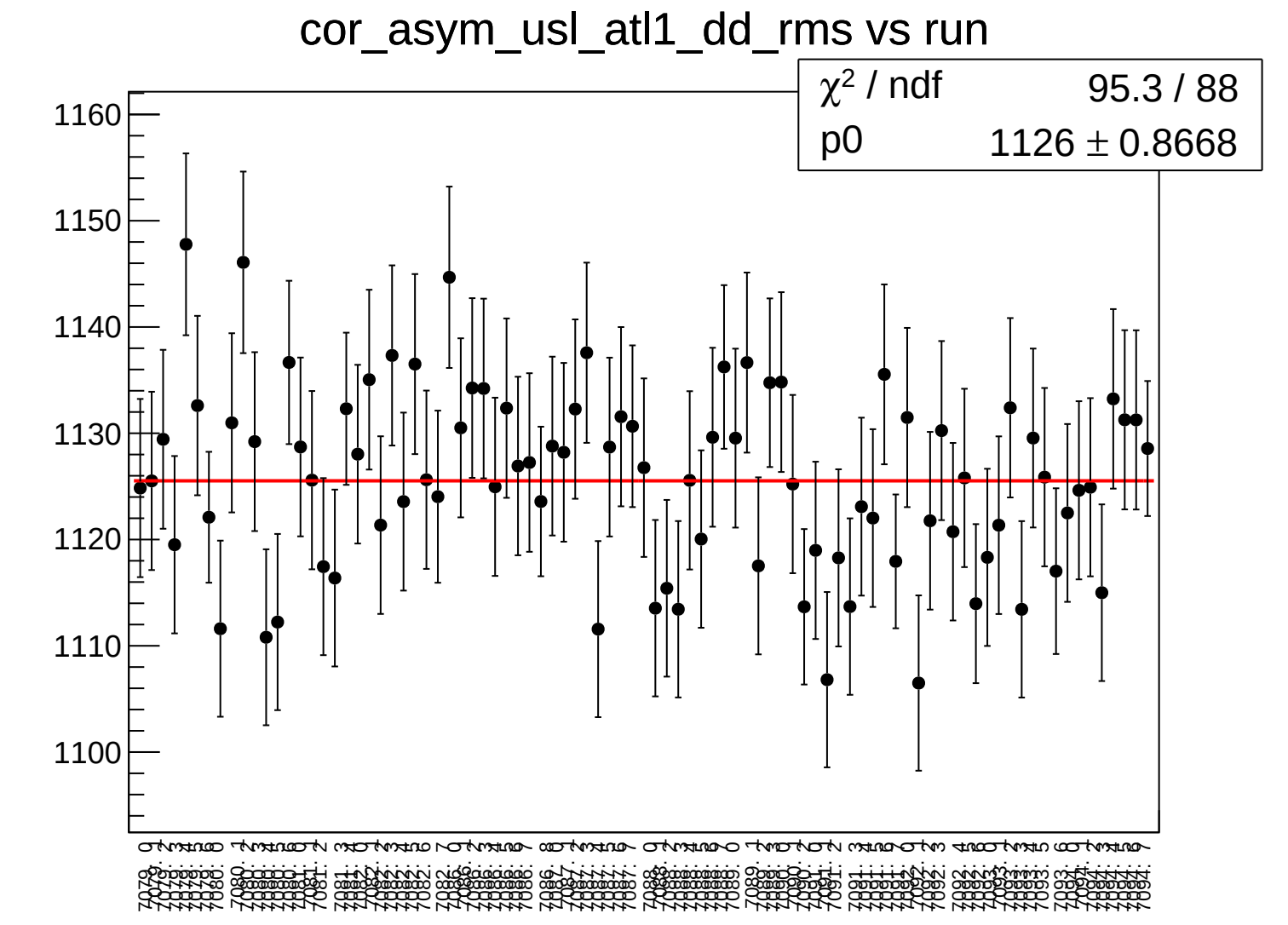

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 71.2 / 88
p0 −713.5 ± 668
pull
Entries 89
Mean −111.4
Std Dev 0

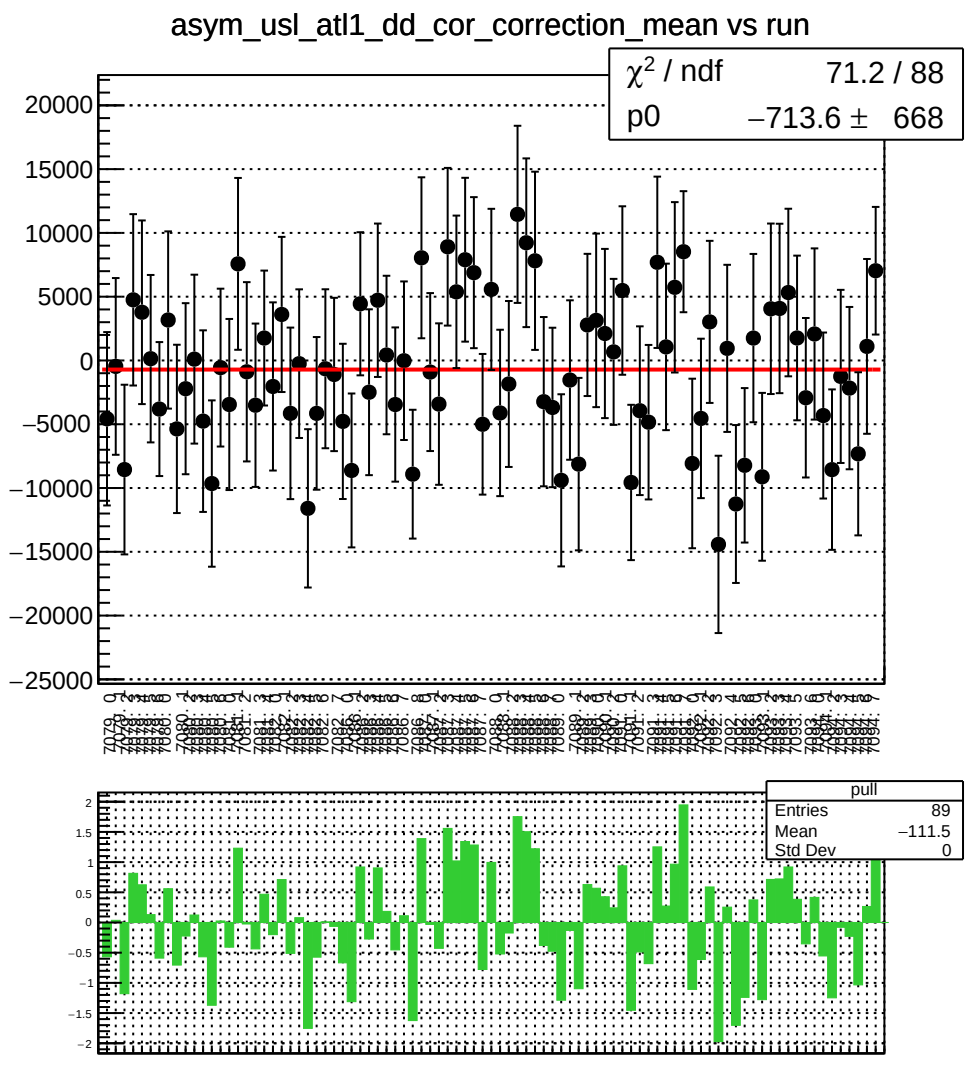

pull1D
Entries 89
Mean −0.004817
Std Dev 0.8944

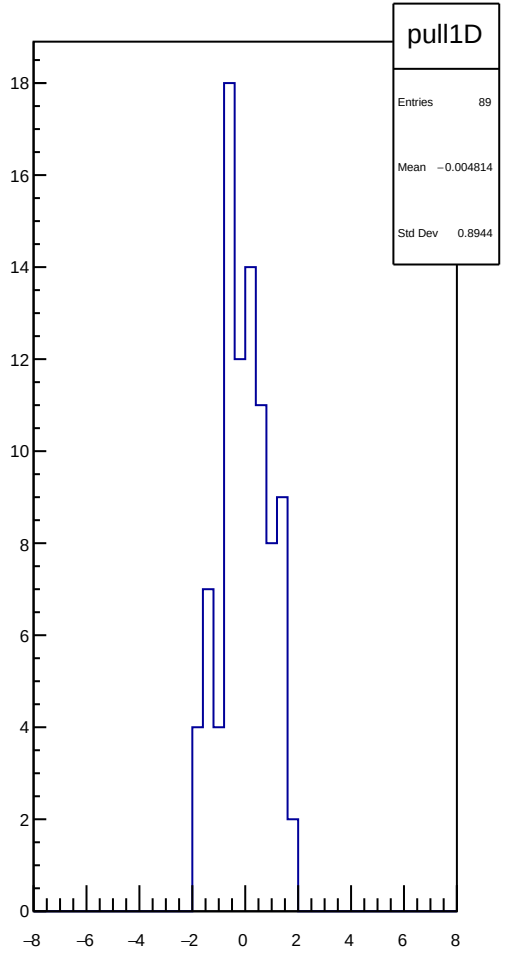

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 4391 / 88
p0 612.6 ± 0.4724
700
680
660
640
620
600
580
560
540
520

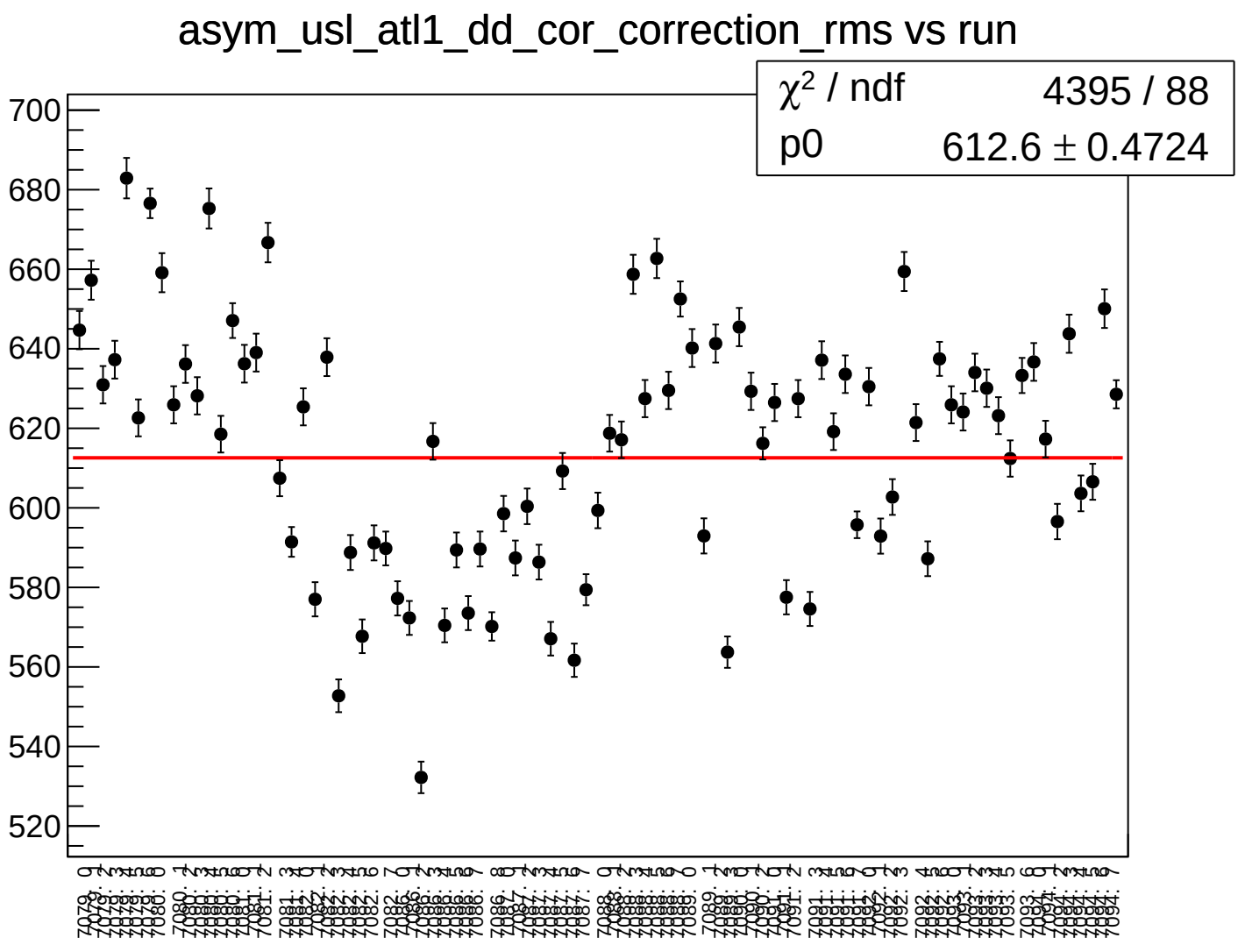

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.99 / 88
p0 323.9 ± 1226
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 7444
Std Dev 0
2
1
0
−1
−2
−3

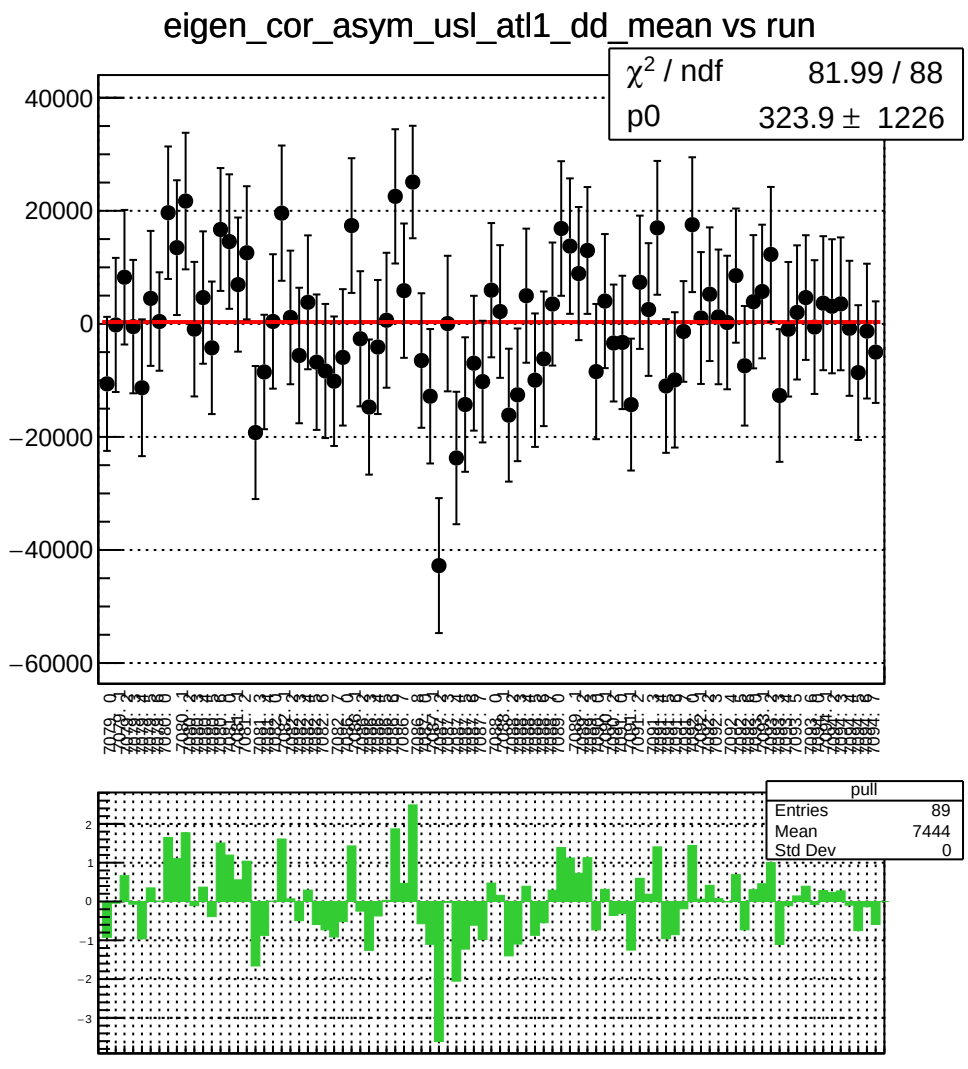

pull1D
Entries 89
Mean −0.000187
Std Dev 0.9598
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

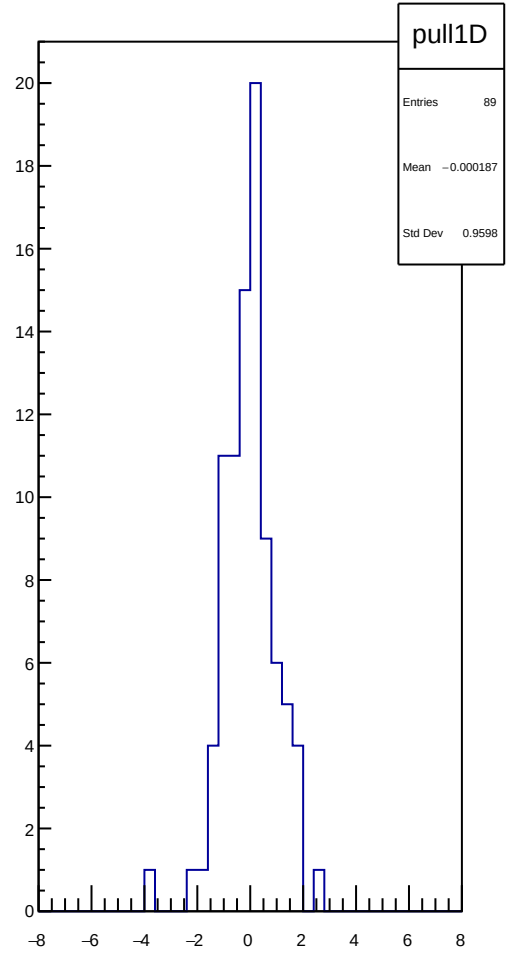

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 95.3 / 88
p0 1126 ± 0.8668
1160
1150
1140
1130
1120
1110
1100

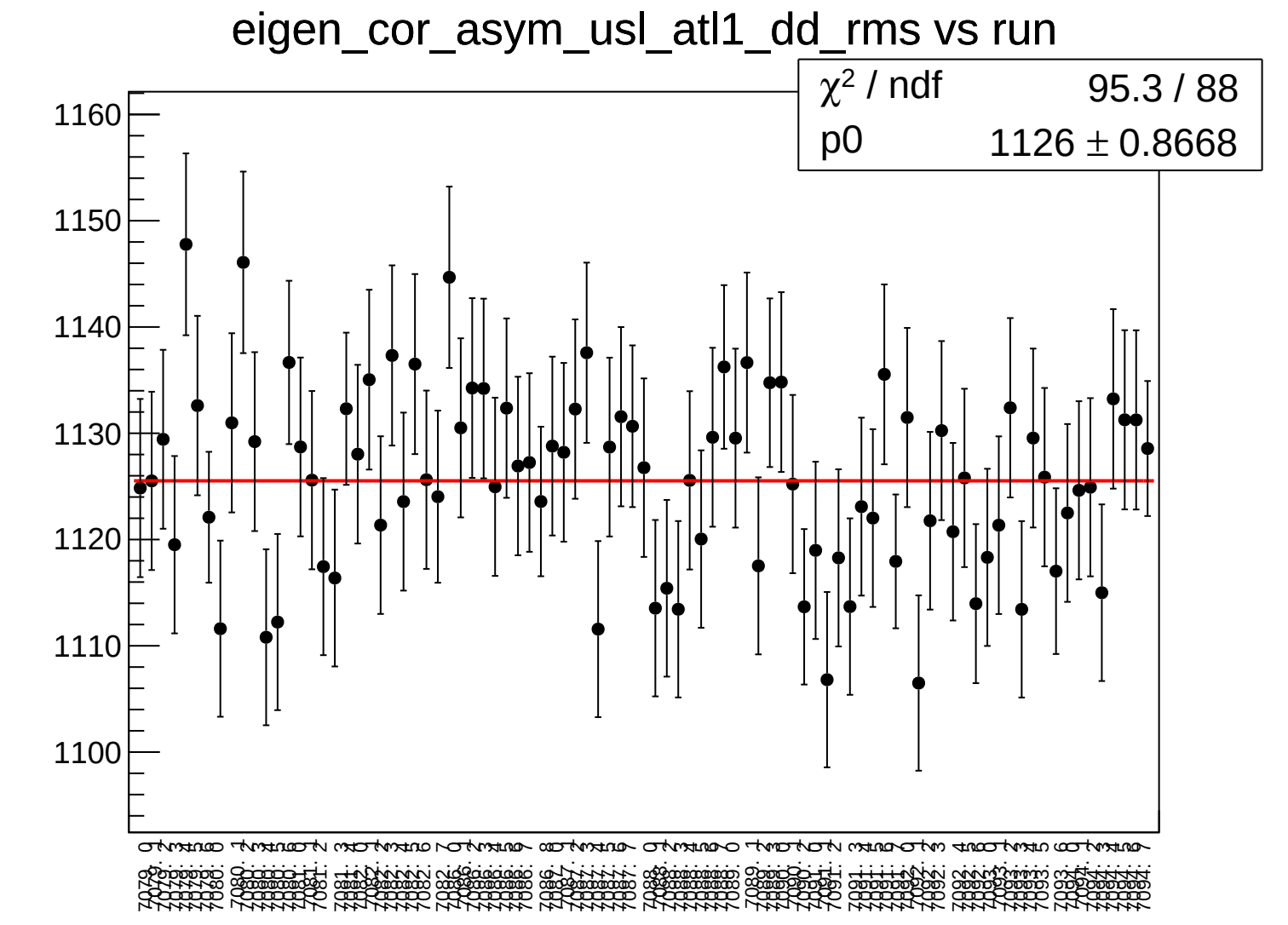

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 71.2 / 88
p0 −713.6 ± 668
pull
Entries 89
Mean −111.5
Std Dev 0

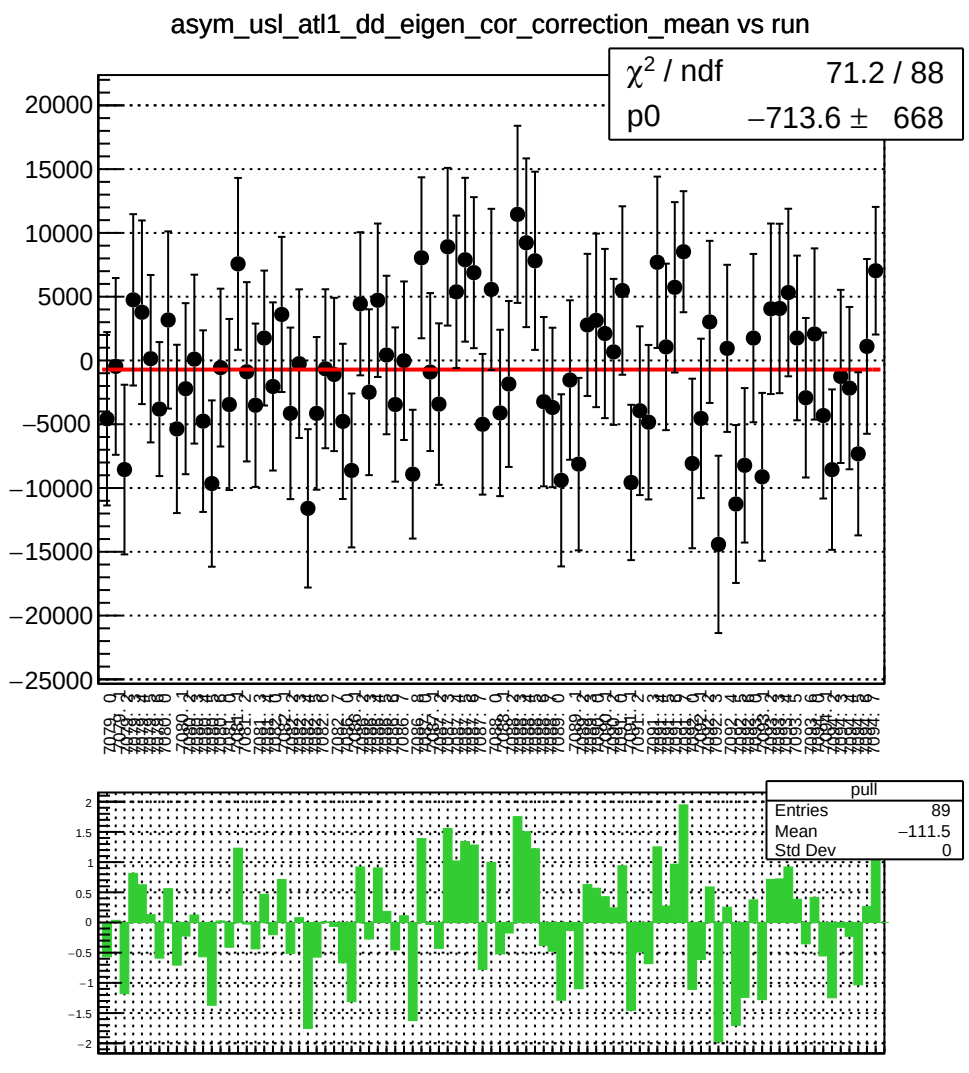

pull1D
Entries 89
Mean −0.004814
Std Dev 0.8944

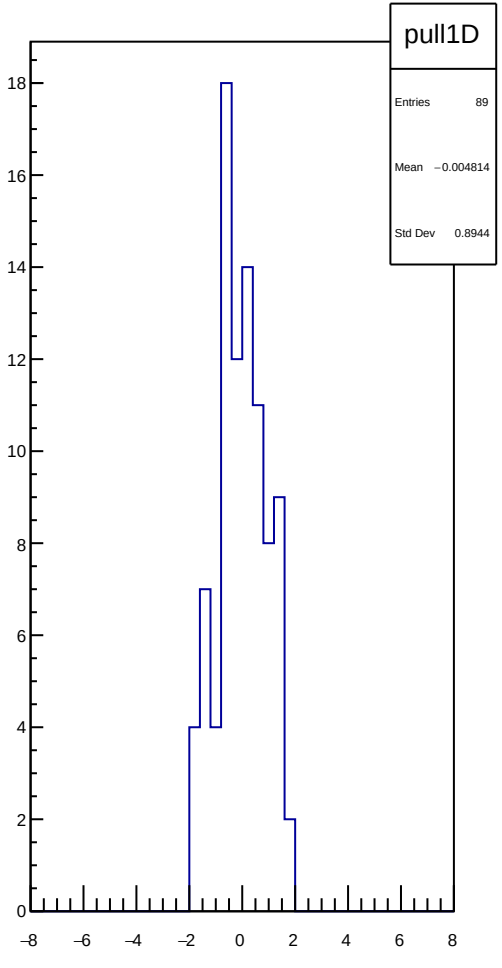

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 4395 / 88
p0 612.6 ± 0.4724
700
680
660
640
620
600
580
560
540
520

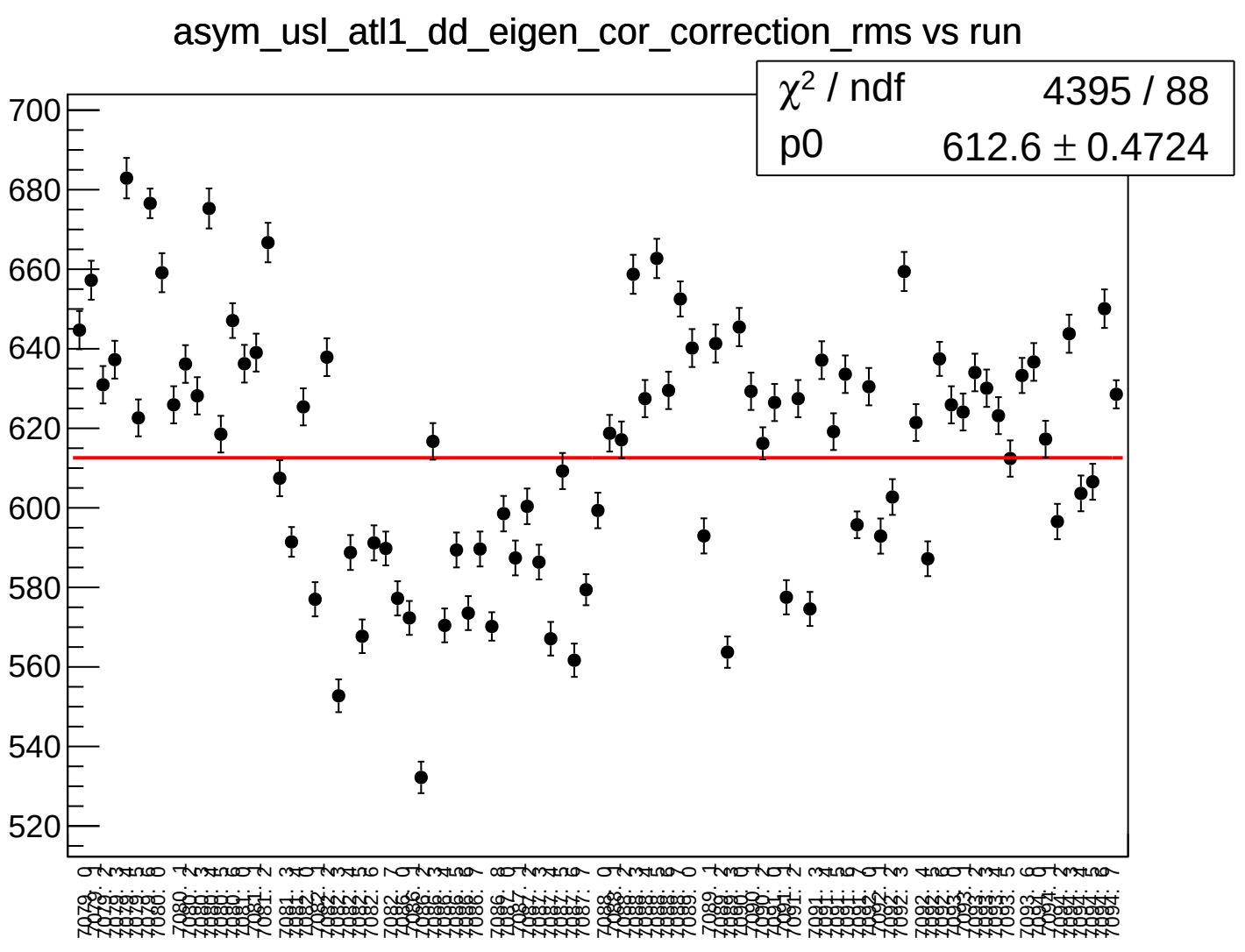

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.99 / 88
p0 323.9 ± 1226
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 7444
Std Dev 0
2
1
0
−1
−2
−3

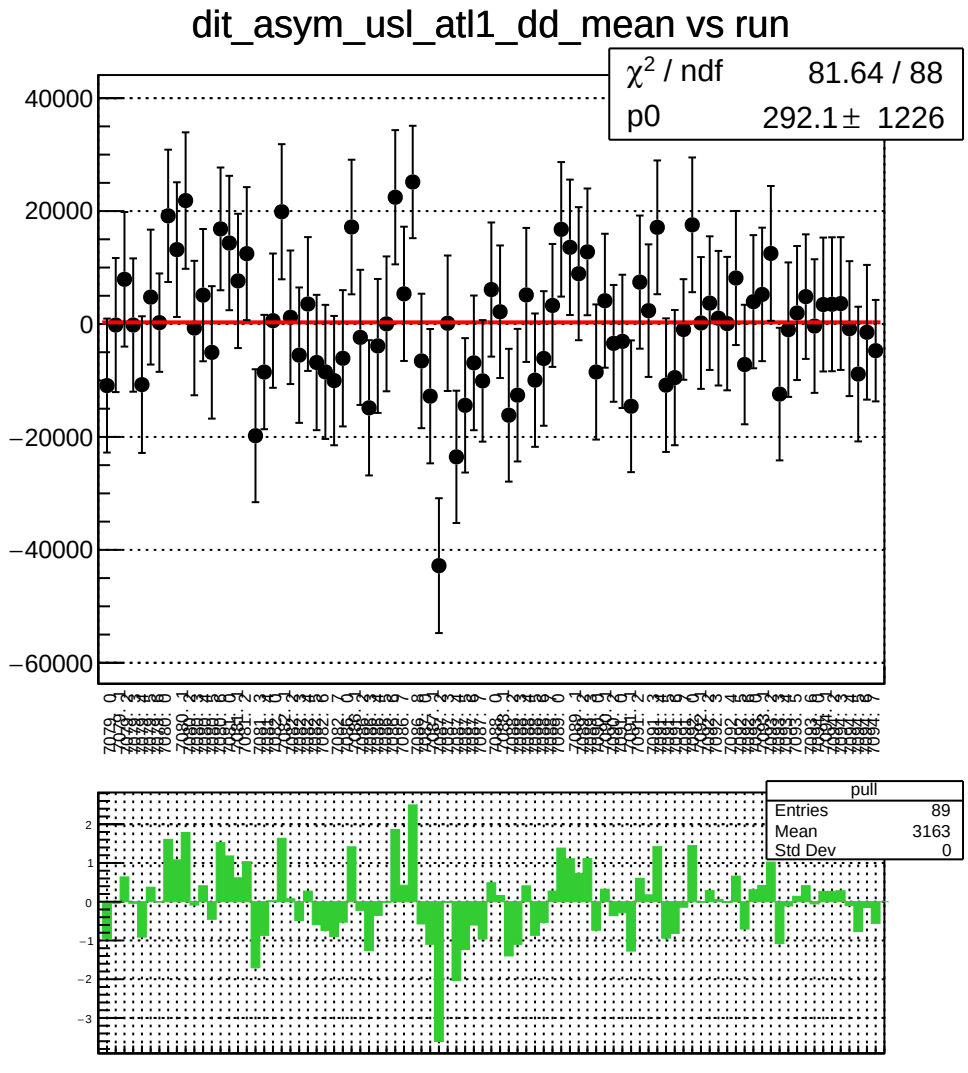

pull1D
Entries 89
Mean −0.000187
Std Dev 0.9598
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

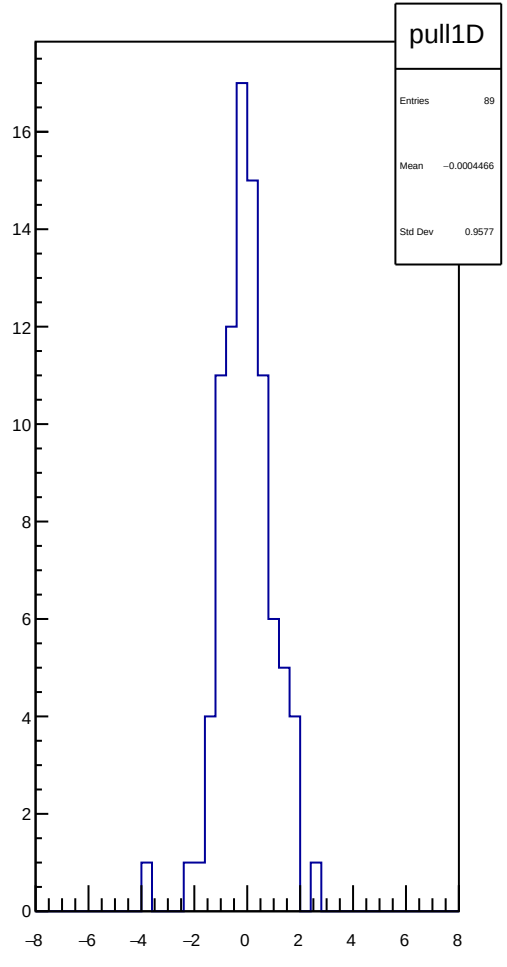

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 95.3 / 88
p0 1126 ± 0.8668
1160
1150
1140
1130
1120
1110
1100

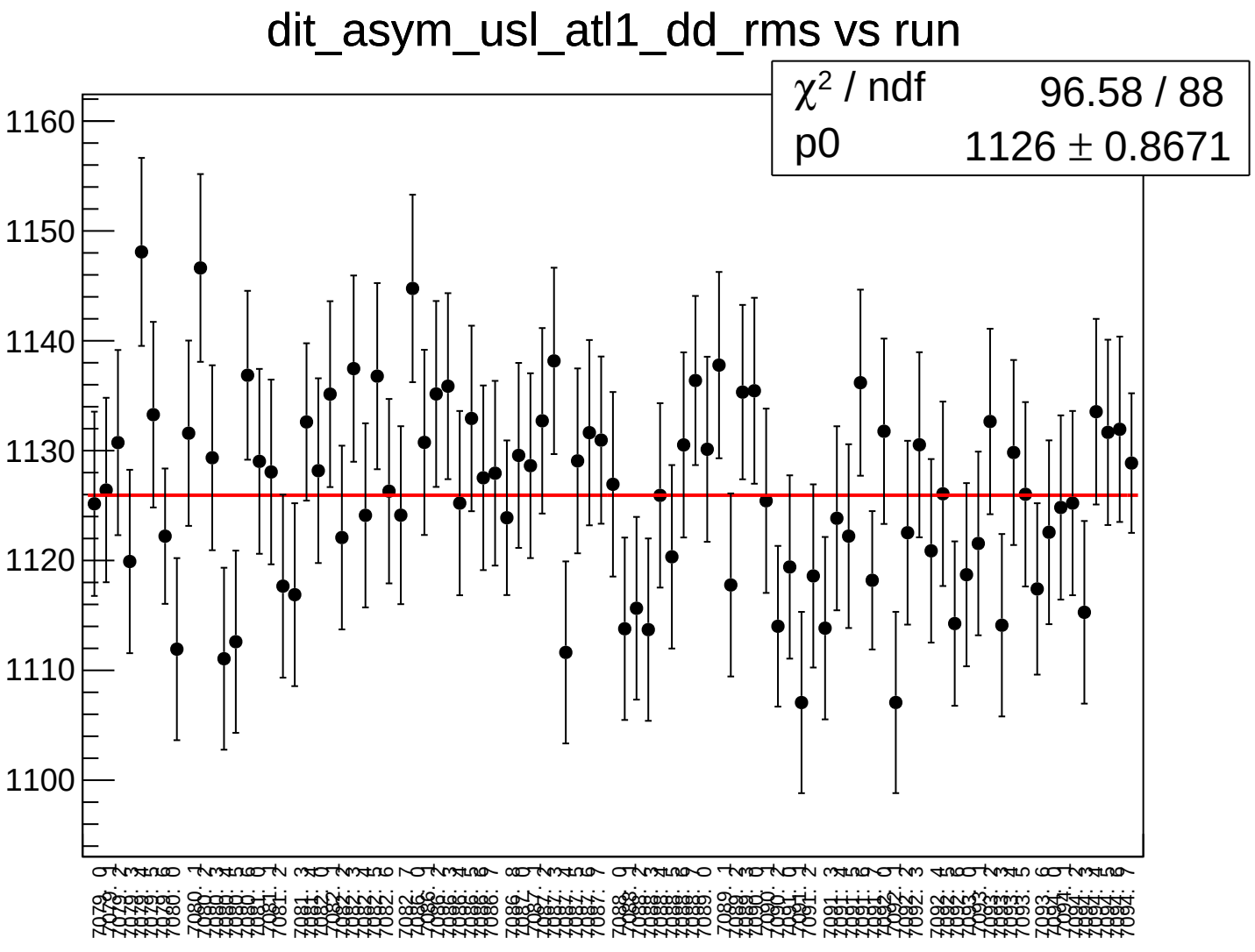

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.2 / 88
p0 −713.6 ± 668
pull
Entries 89
Mean −111.5
Std Dev 0

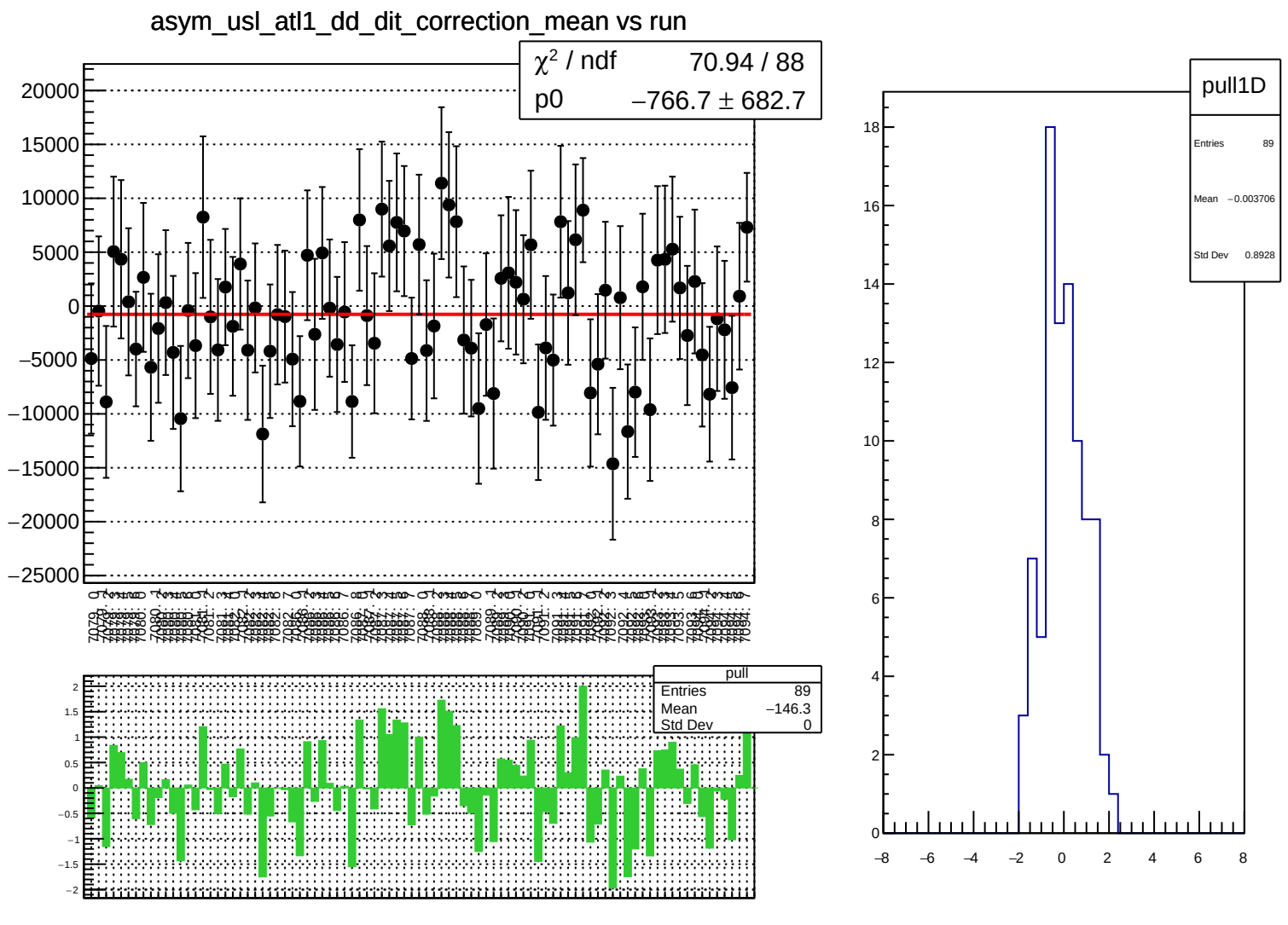

pull1D
Entries 89
Mean −0.004814
Std Dev 0.8944

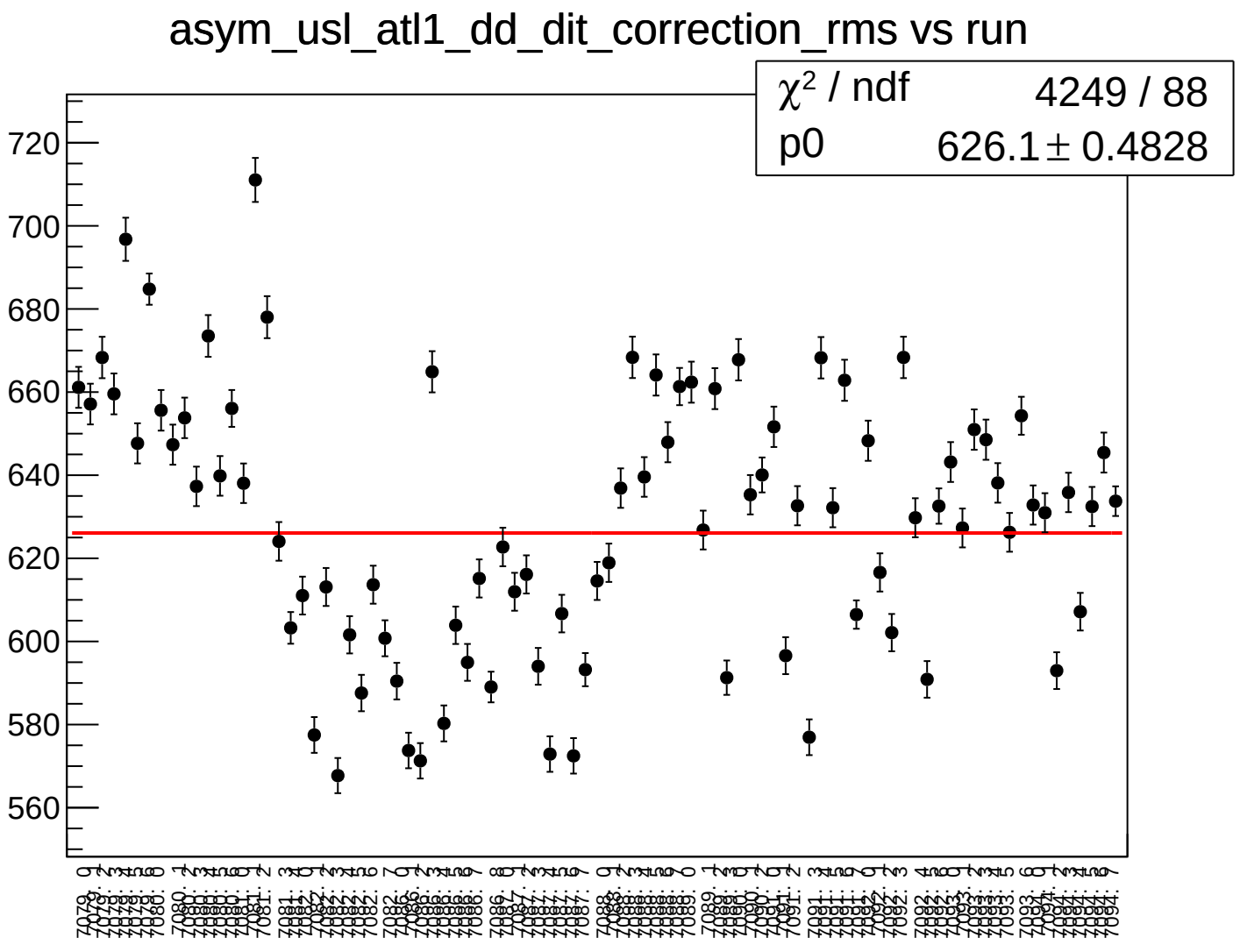

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4395 / 88
p0 612.6 ± 0.4724
700
680
660
640
620
600
580
560
540
520

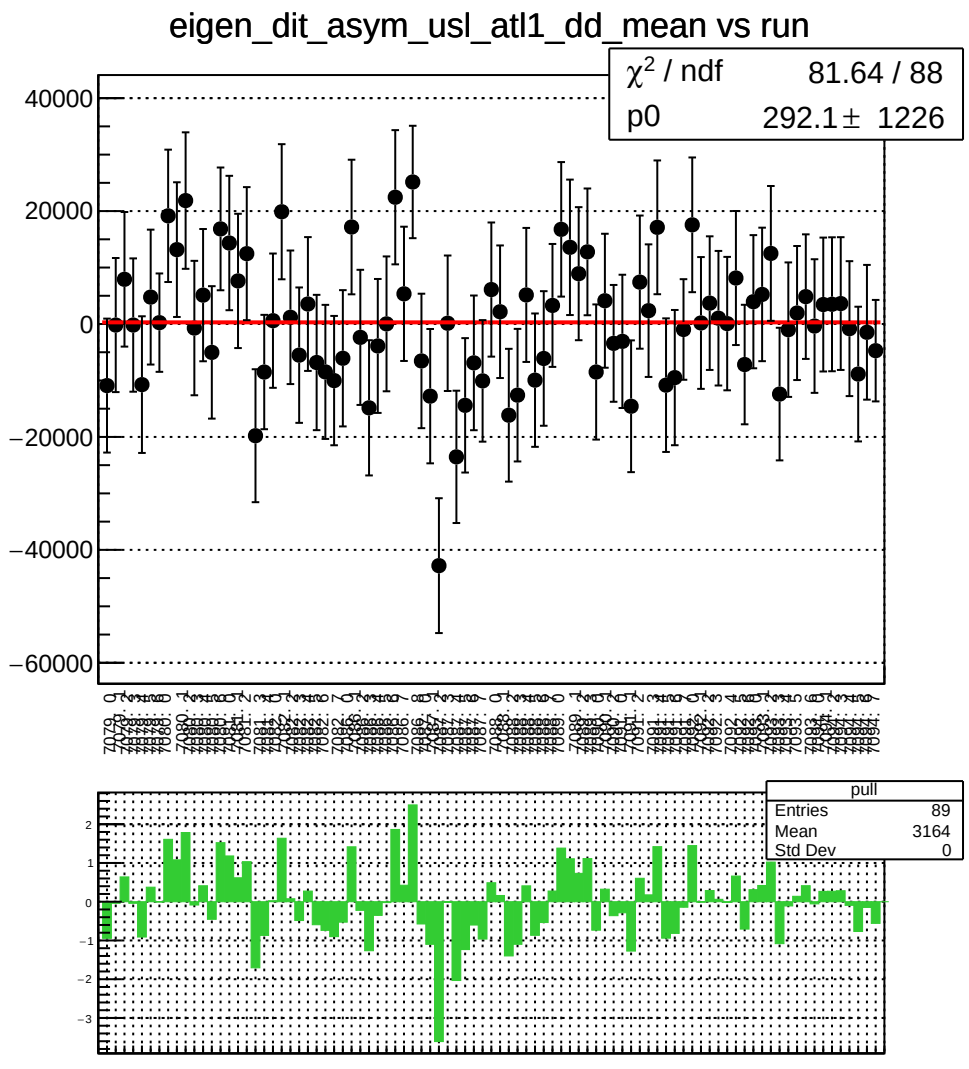

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.64 / 88
p0 292.1 ± 1226
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 3163
Std Dev 0
2
1
0
−1
−2
−3

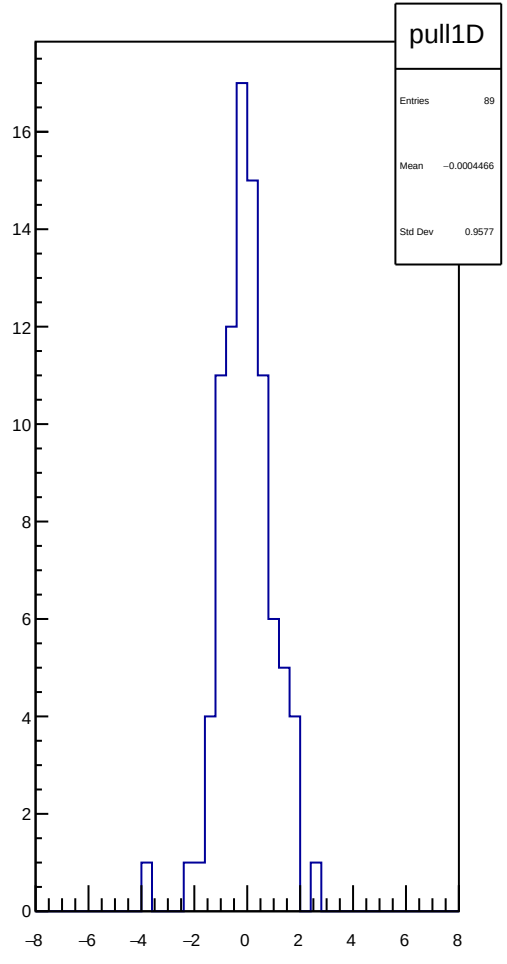

pull1D
Entries 89
Mean −0.0004466
Std Dev 0.9577
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

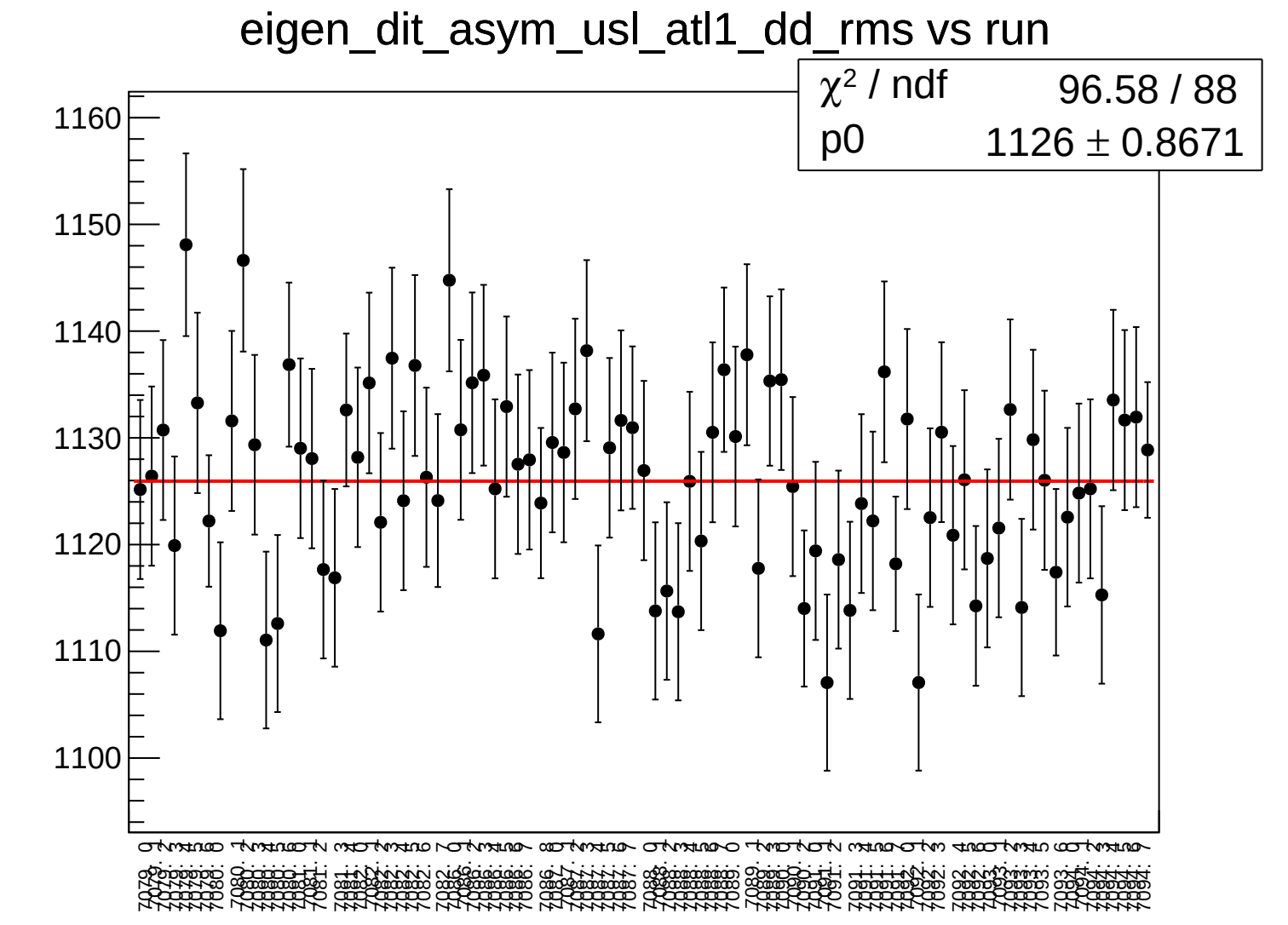

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 96.58 / 88
p0 1126 ± 0.8671
1160
1150
1140
1130
1120
1110
1100

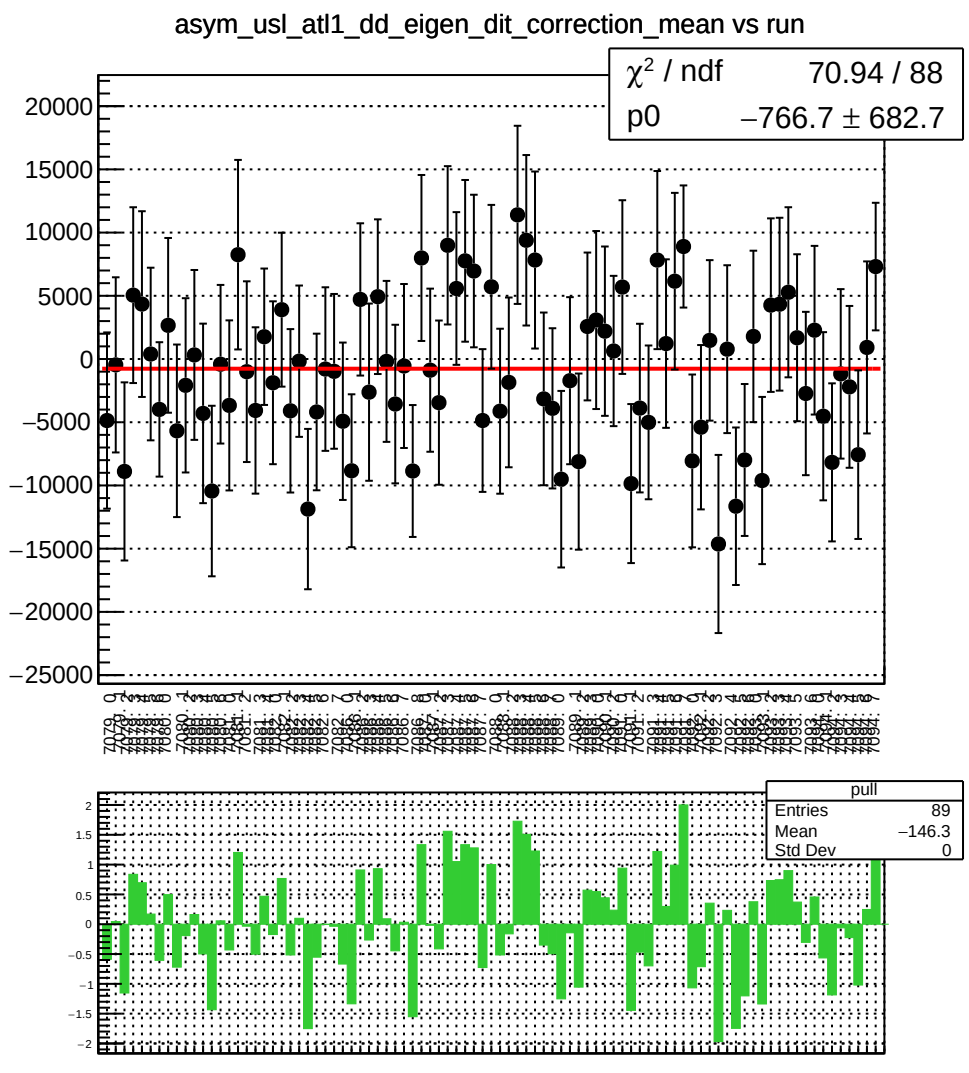

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 70.94 / 88
p0 −766.7 ± 682.7
pull
Entries 89
Mean −146.3
Std Dev 0
pull1D
Entries 89
Mean −0.003706
Std Dev 0.8928

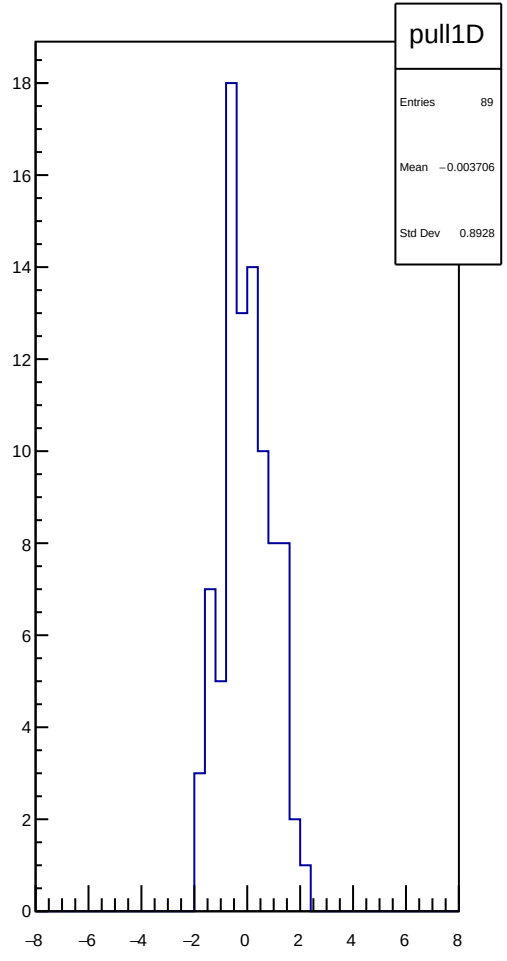

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 4249 / 88
p0 626.1 ± 0.4828
720
700
680
660
640
620
600
580
560

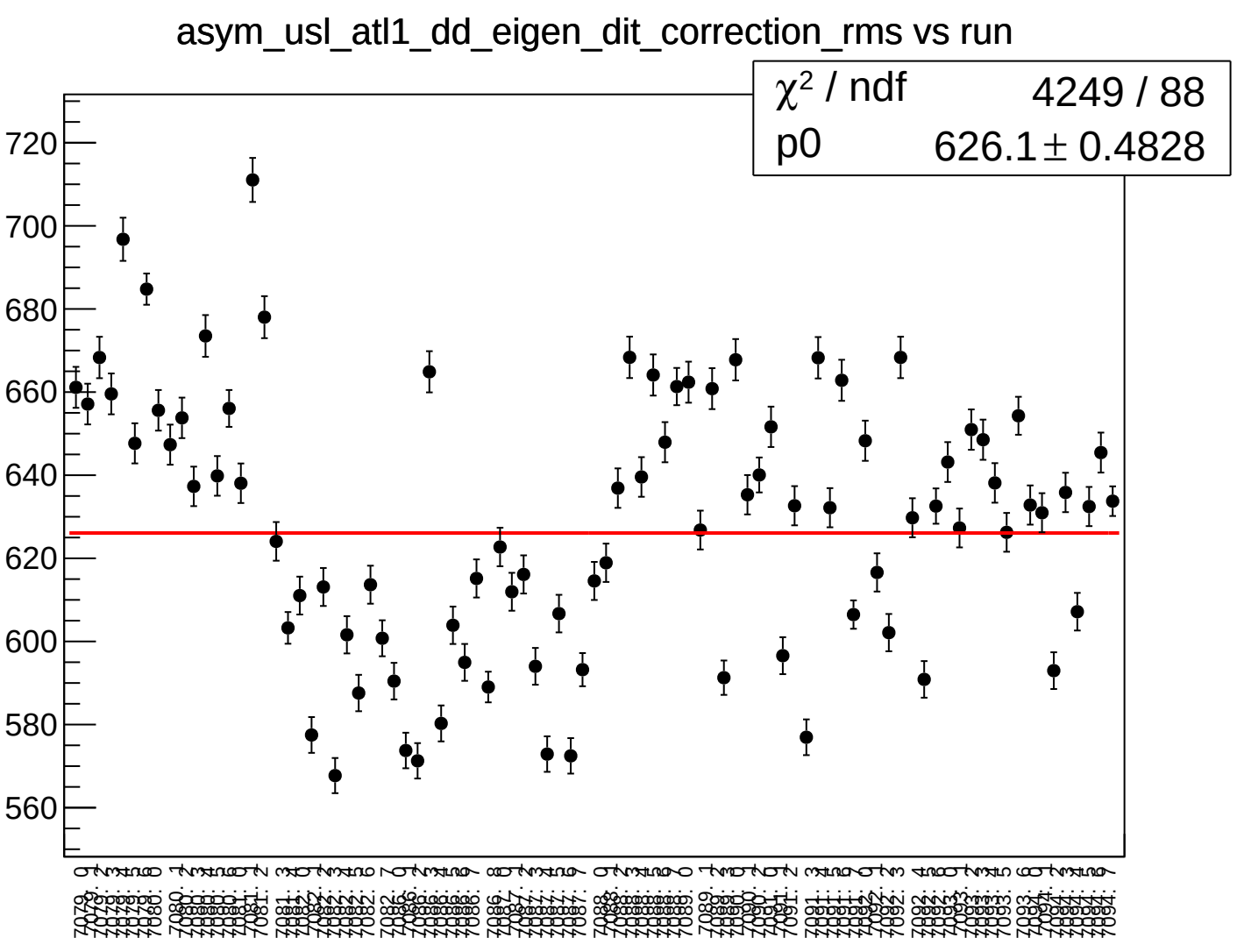

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.64 / 88
p0 292.1 ± 1226
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 3164
Std Dev 0
2
1
0
−1
−2
−3

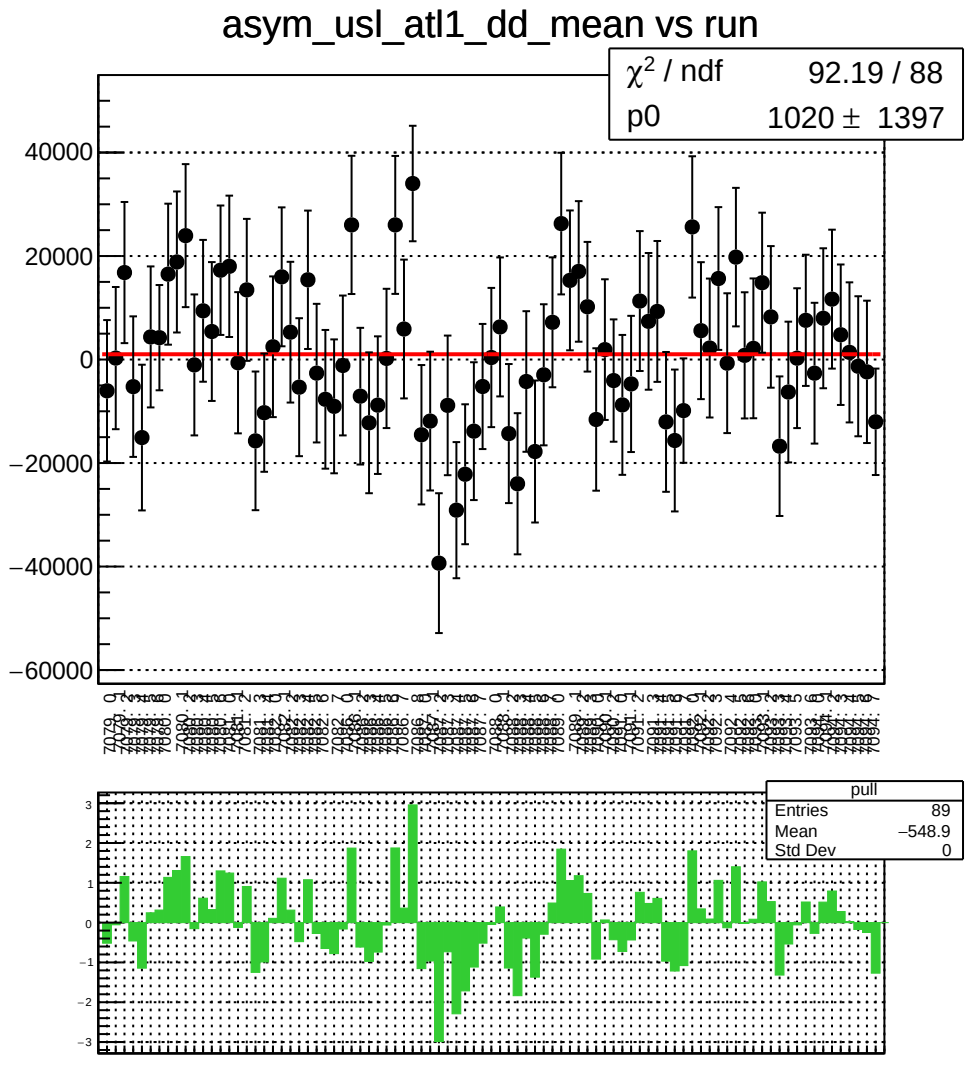

pull1D
Entries 89
Mean −0.0004466
Std Dev 0.9577
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

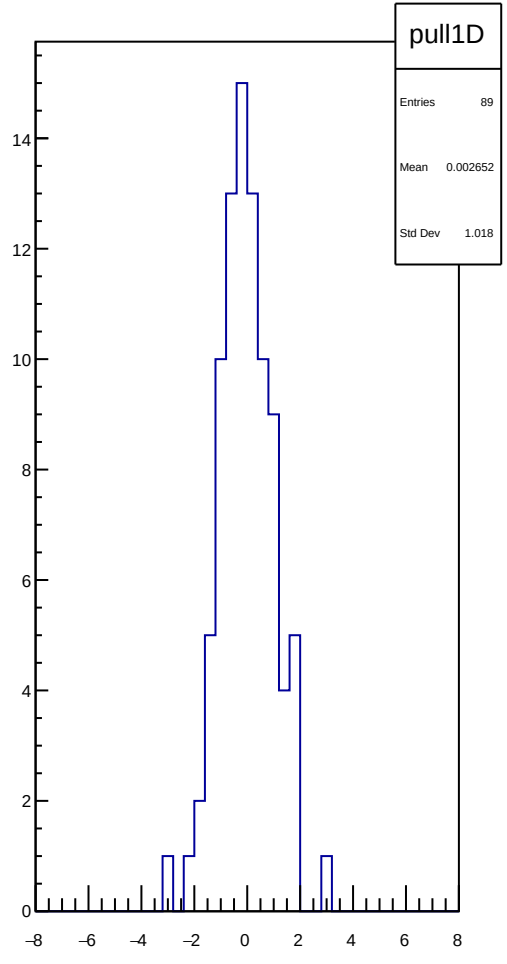

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 96.58 / 88
p0 1126 ± 0.8671
1160
1150
1140
1130
1120
1110
1100

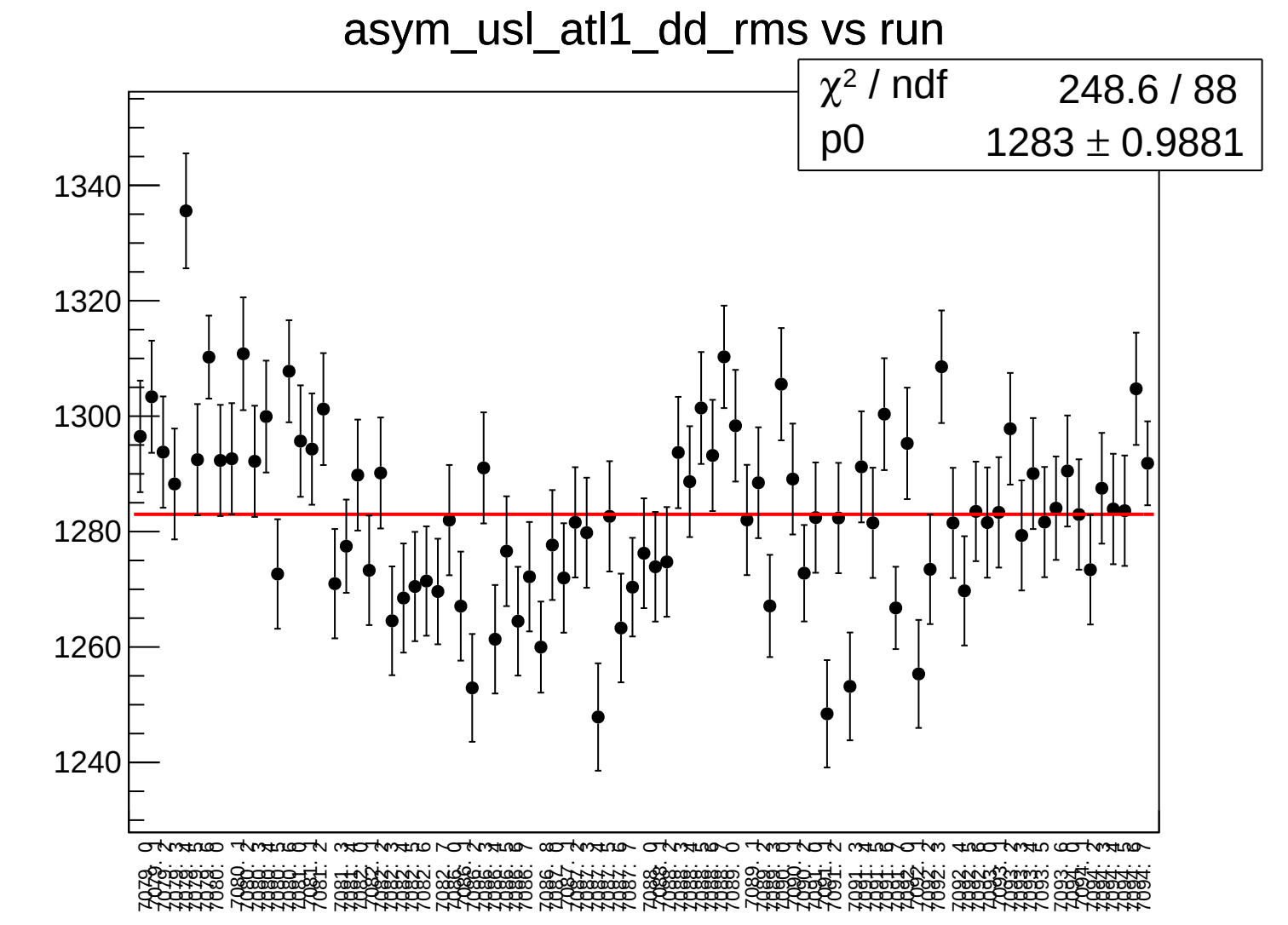

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.94 / 88
p0 −766.7 ± 682.7
pull
Entries 89
Mean −146.3
Std Dev 0

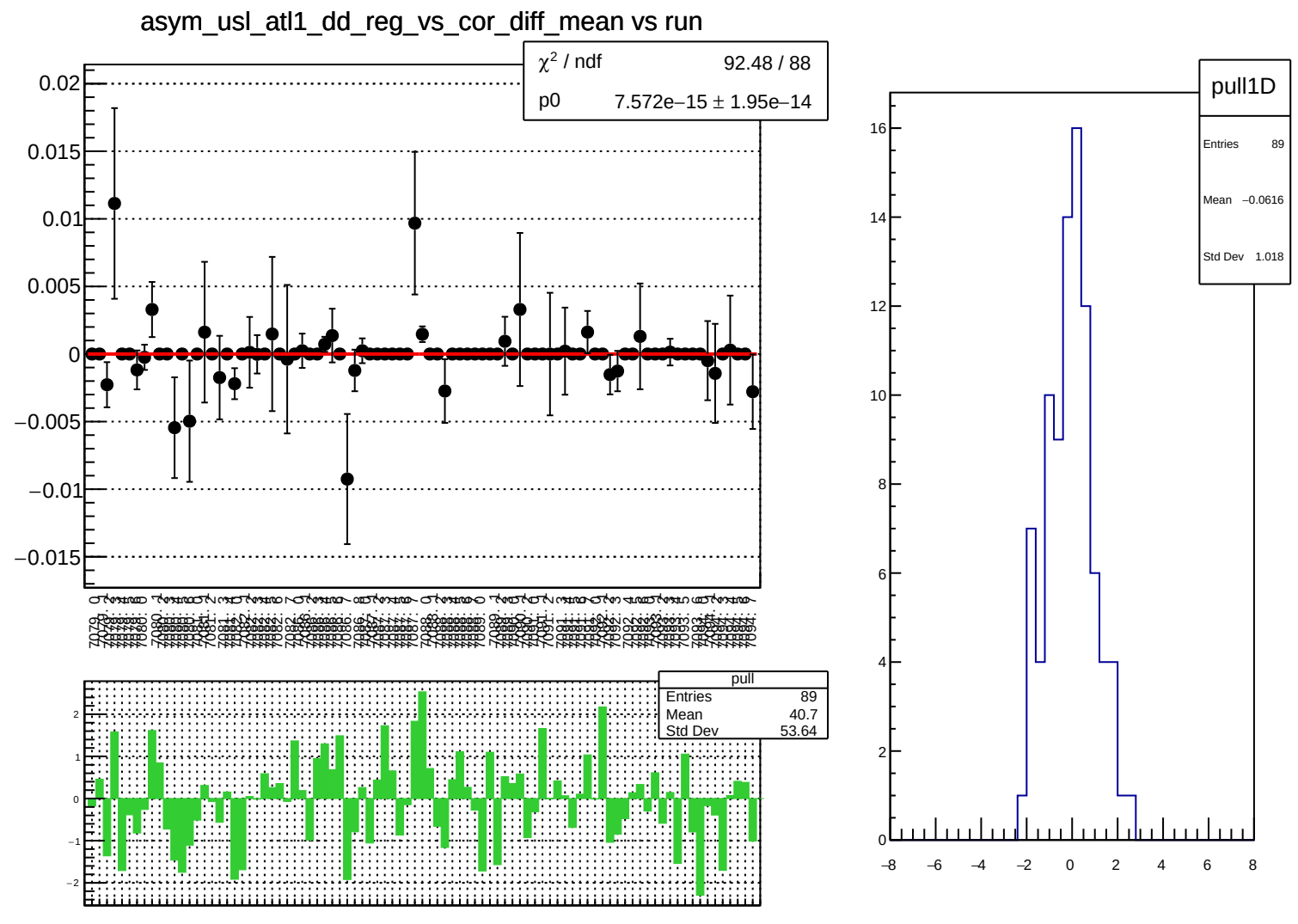

pull1D
Entries 89
Mean −0.003706
Std Dev 0.8928

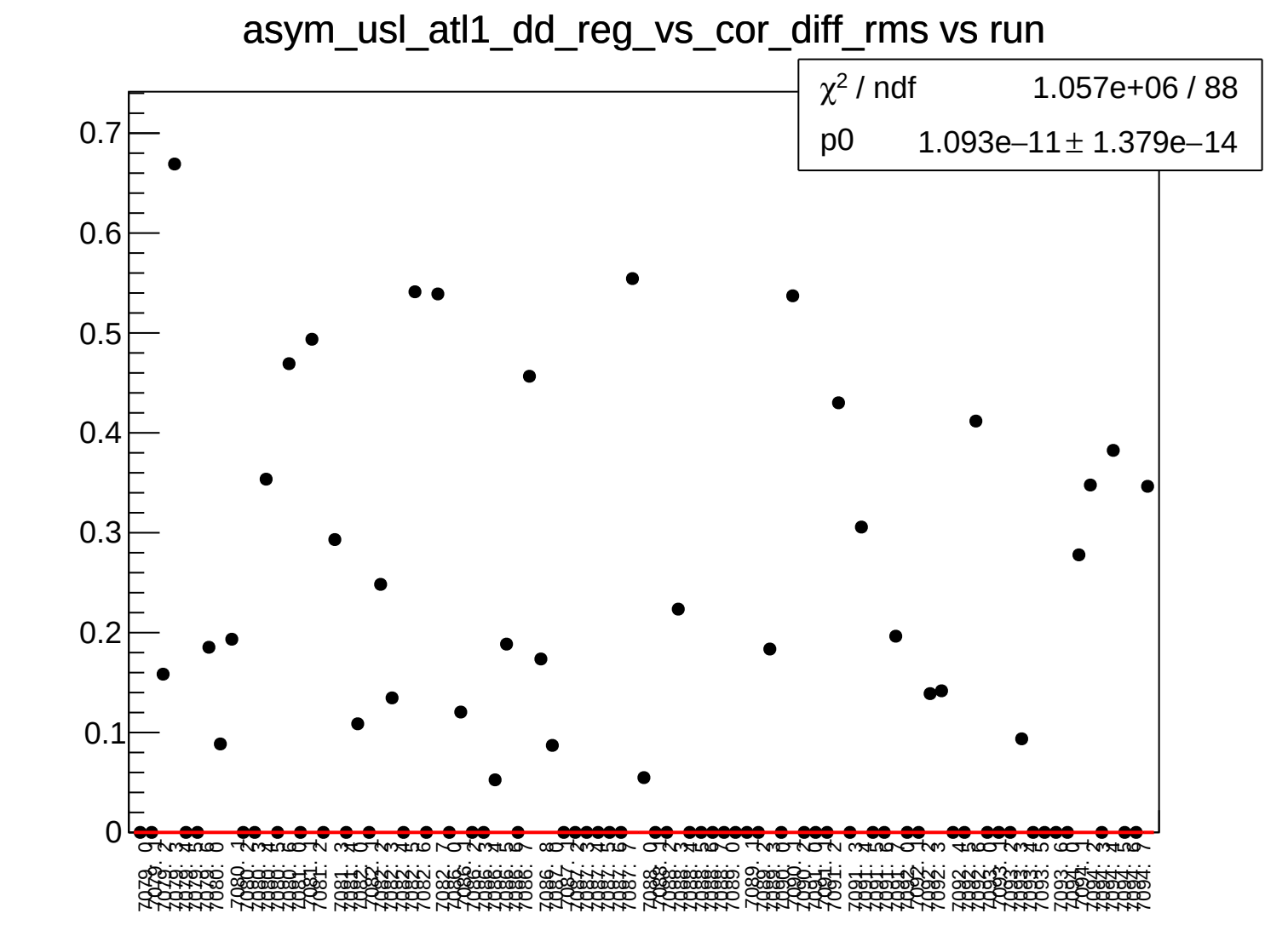

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4249 / 88
p0 626.1 ± 0.4828
720
700
680
660
640
620
600
580
560

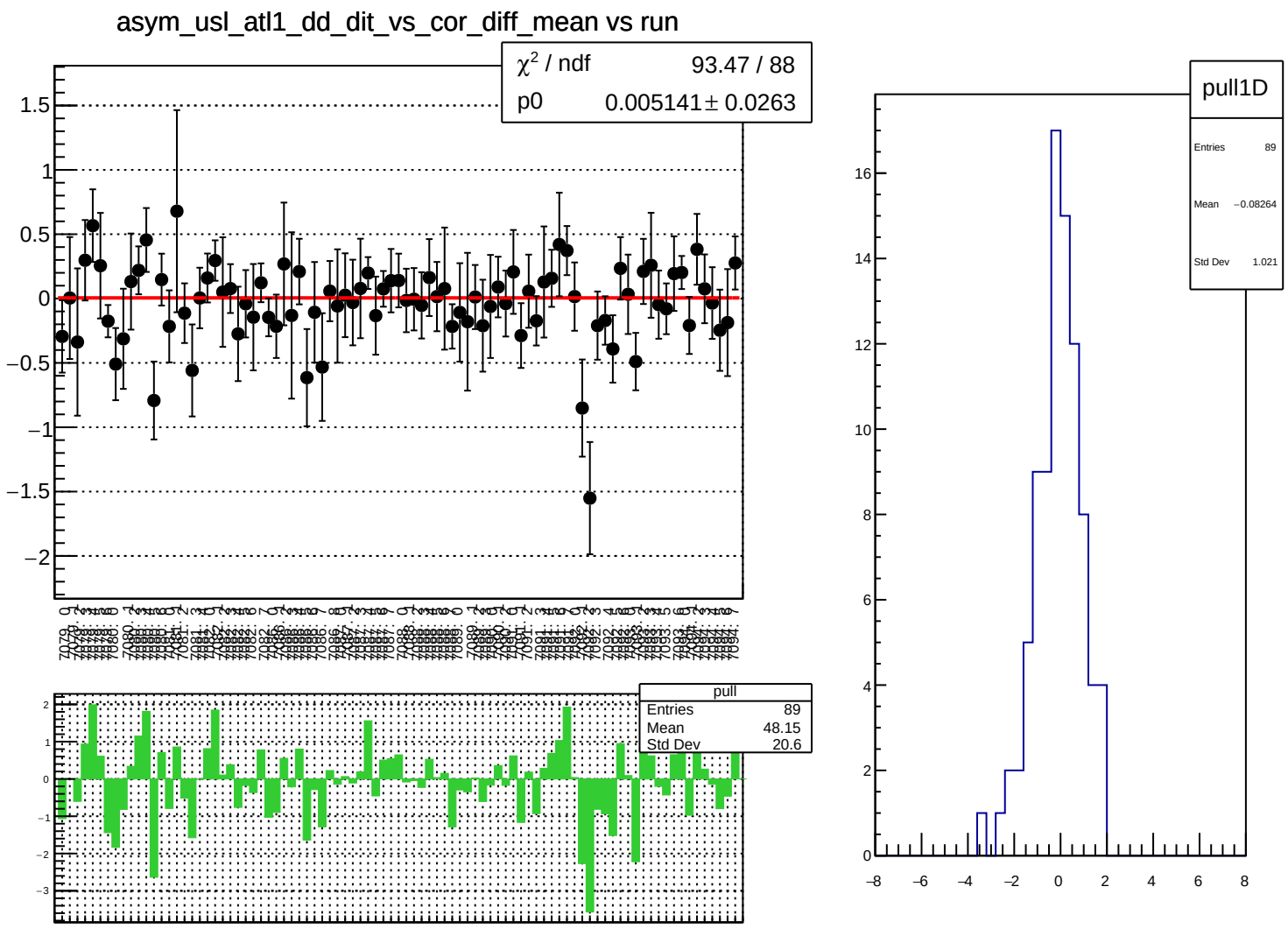

asym_usl_atl1_dd_mean vs run
χ² / ndf 92.19 / 88
p0 1020 ± 1397
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −548.9
Std Dev 0
3
2
1
0
−1
−2
−3

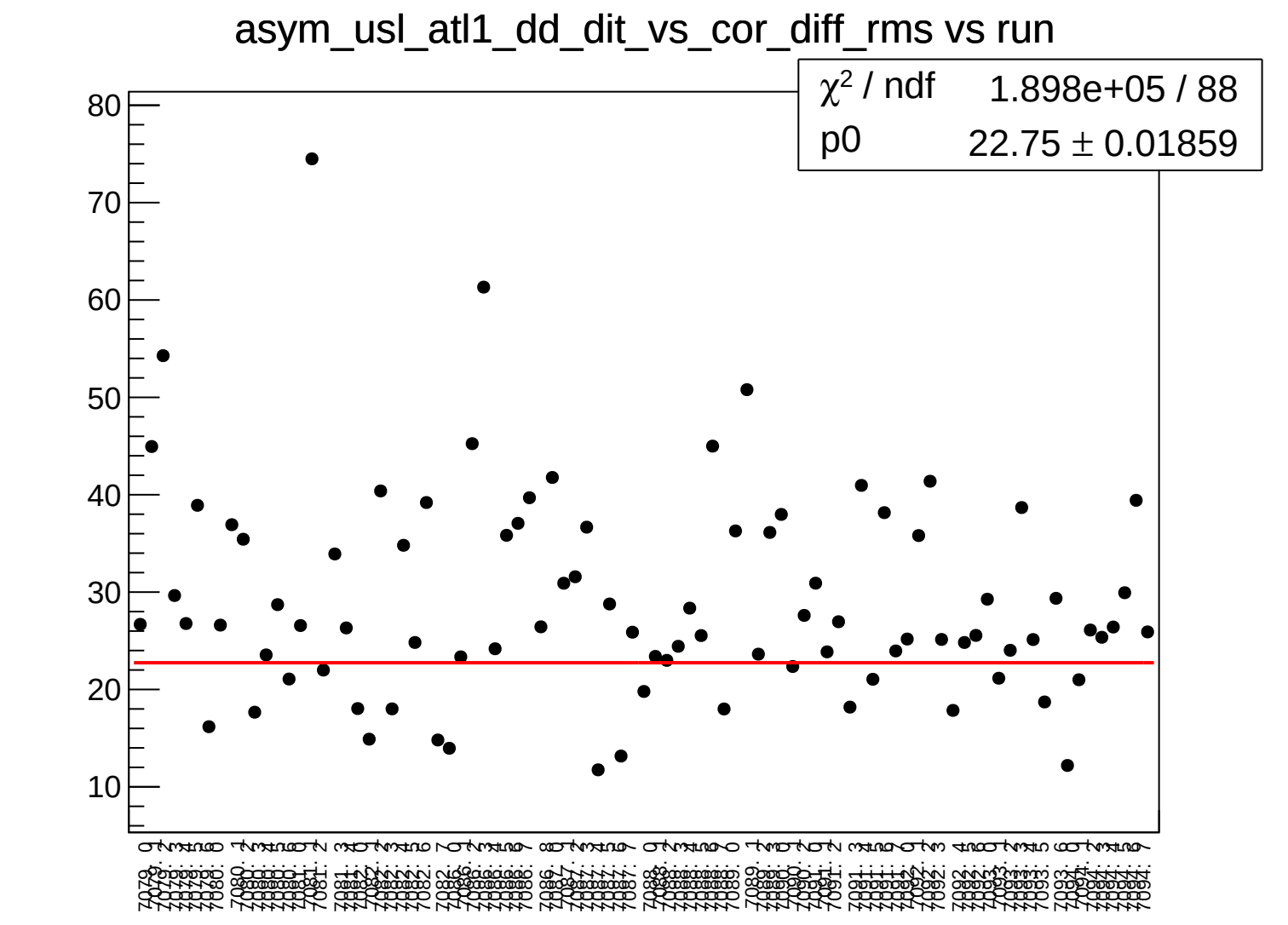

pull1D
Entries 89
Mean 0.002652
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

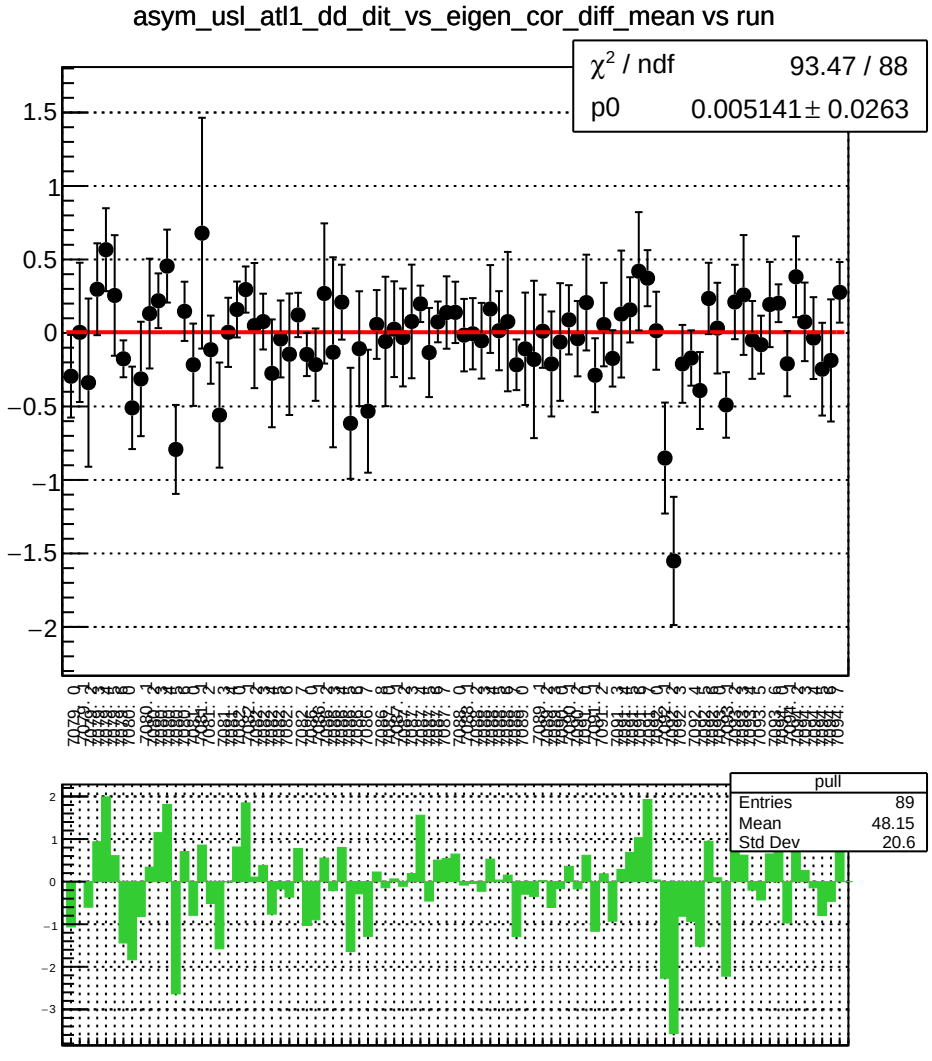

asym_usl_atl1_dd_rms vs run
χ² / ndf 248.6 / 88
p0 1283 ± 0.9881
1340
1320
1300
1280
1260
1240

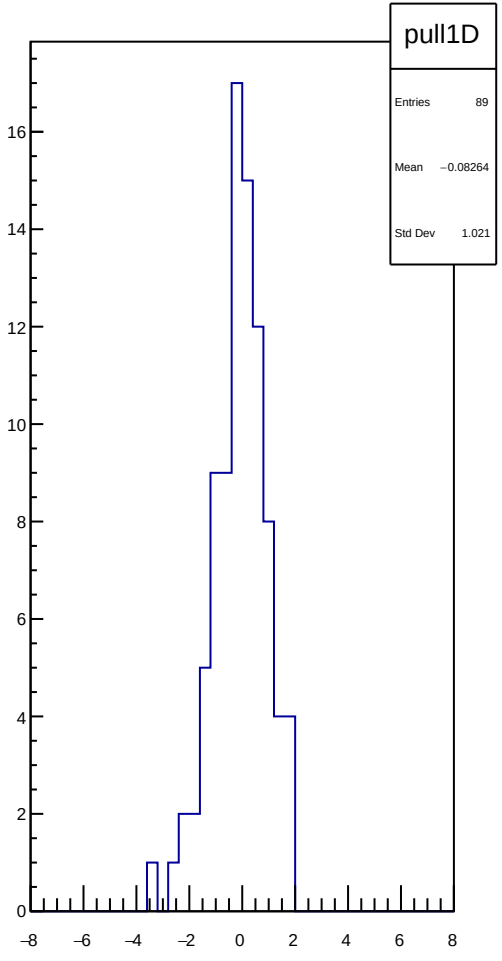

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.48 / 88
p0 7.572e−15 ± 1.95e−14
pull
Entries 89
Mean 40.7
Std Dev 53.64
pull1D
Entries 89
Mean −0.0616
Std Dev 1.018

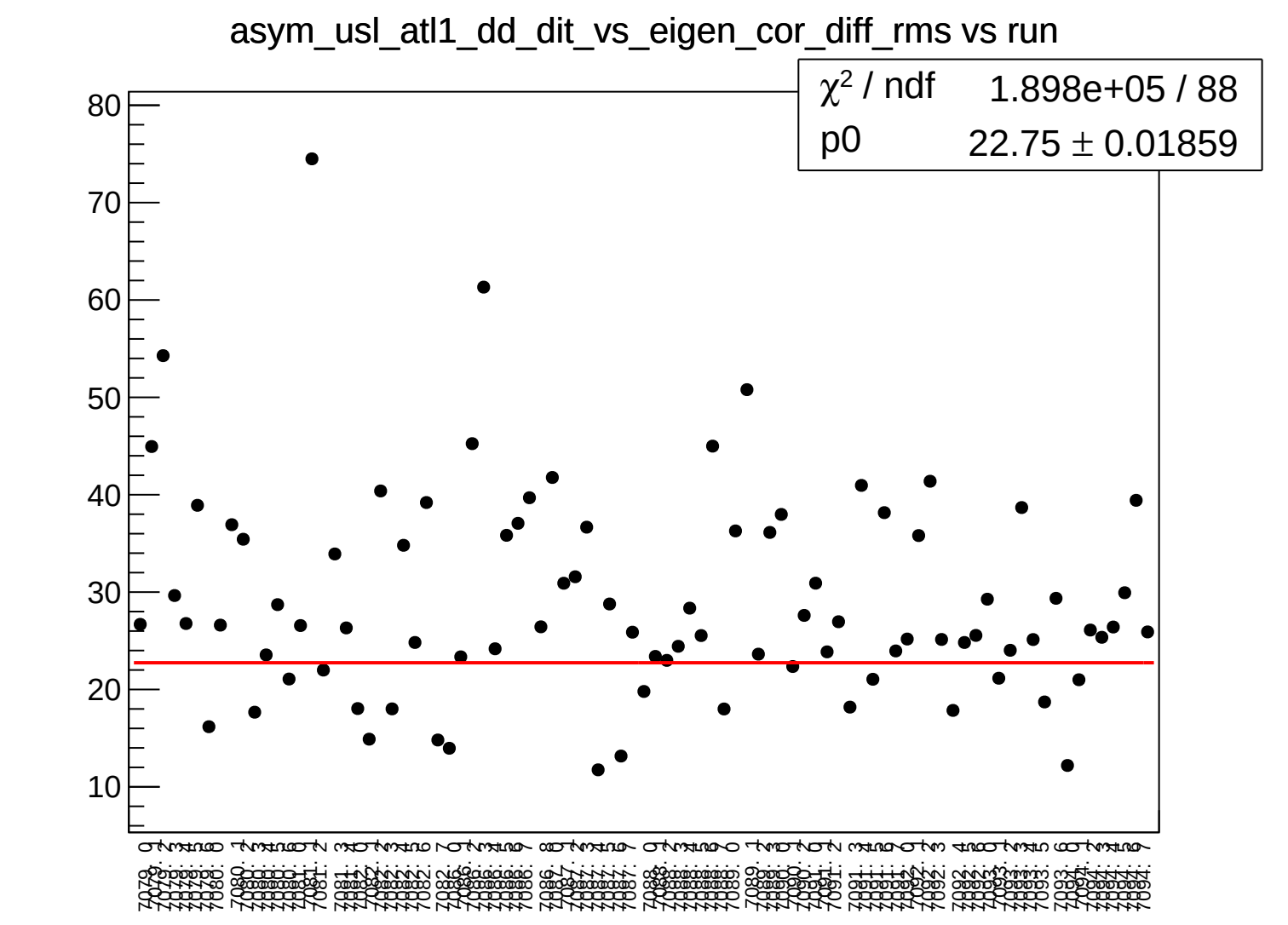

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 88
p0 1.093e−11 ± 1.379e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

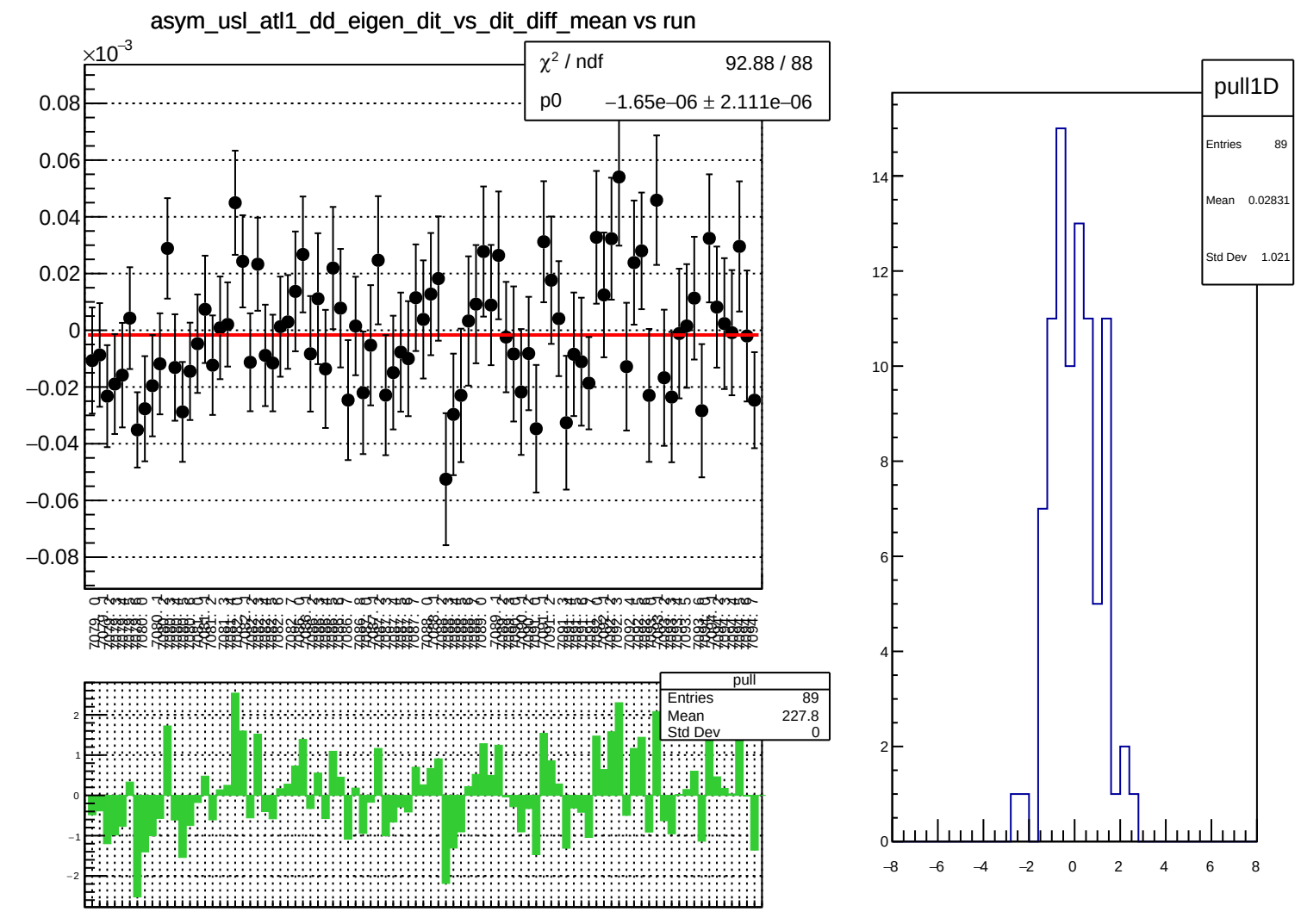

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.47 / 88
p0 0.005141 ± 0.0263
pull
Entries 89
Mean 48.15
Std Dev 20.6
pull1D
Entries 89
Mean −0.08264
Std Dev 1.021

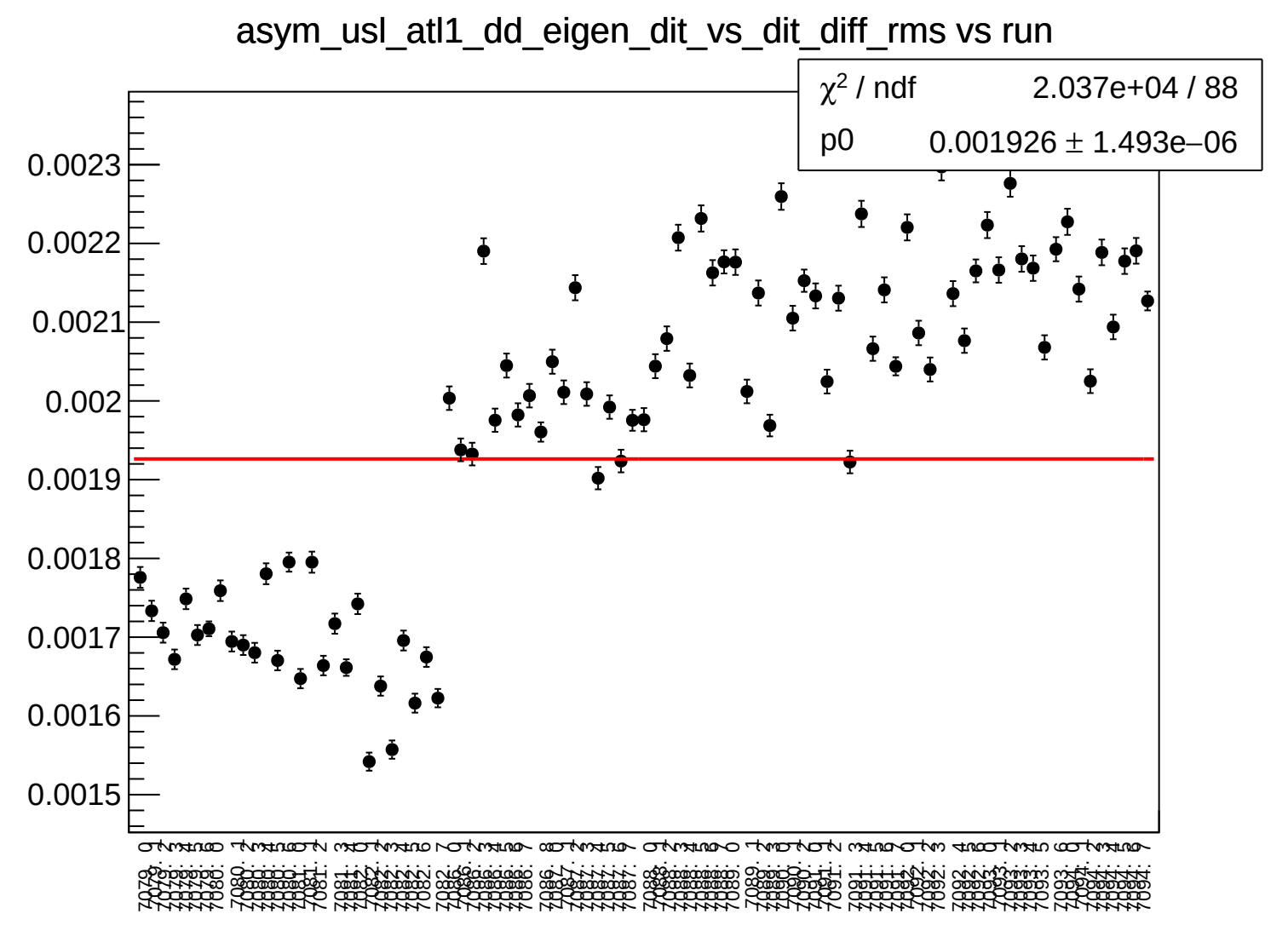

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.898e+05 / 88
p0 22.75 ± 0.01859
80
70
60
50
40
30
20
10

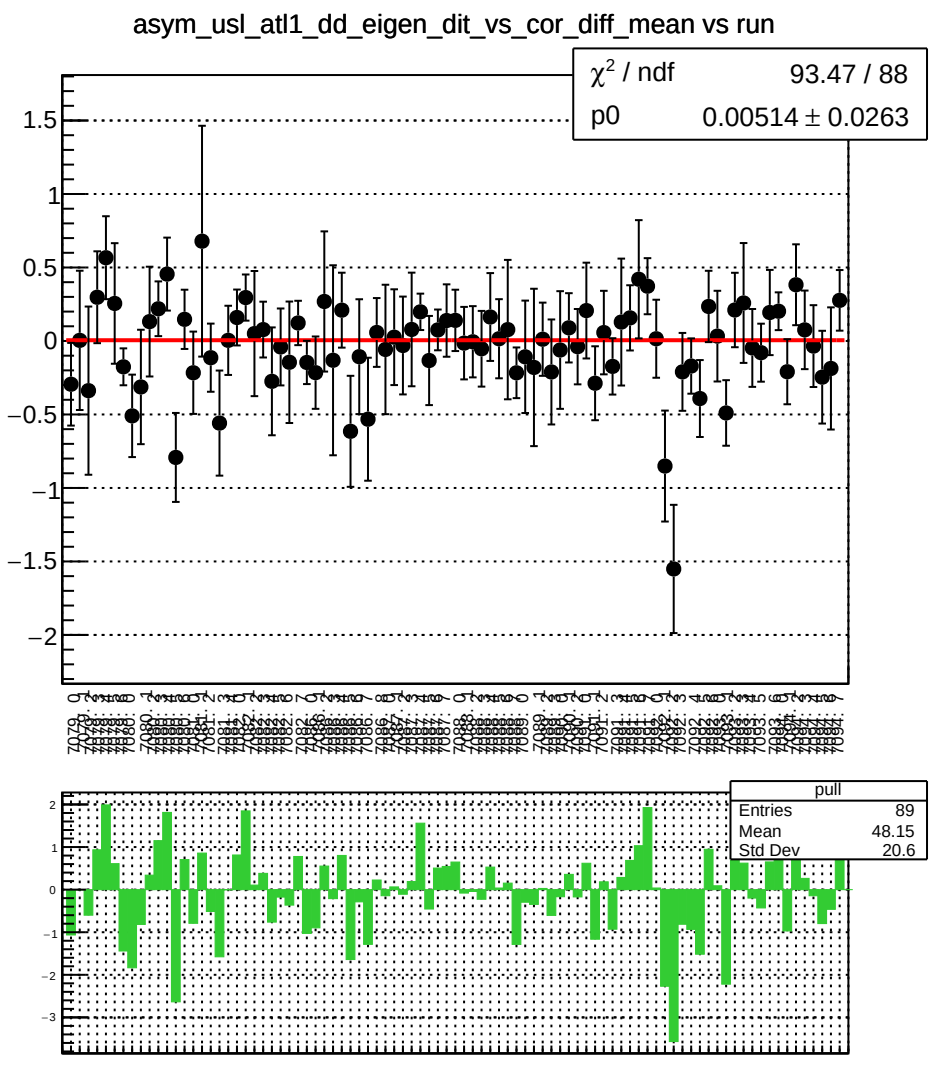

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.47 / 88
p0 0.005141 ± 0.0263
pull
Entries 89
Mean 48.15
Std Dev 20.6

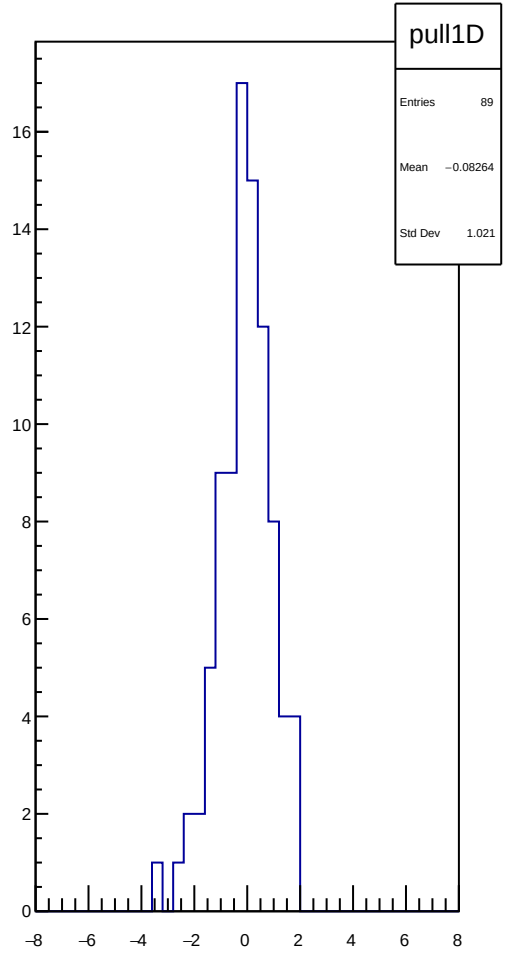

pull1D
Entries 89
Mean −0.08264
Std Dev 1.021

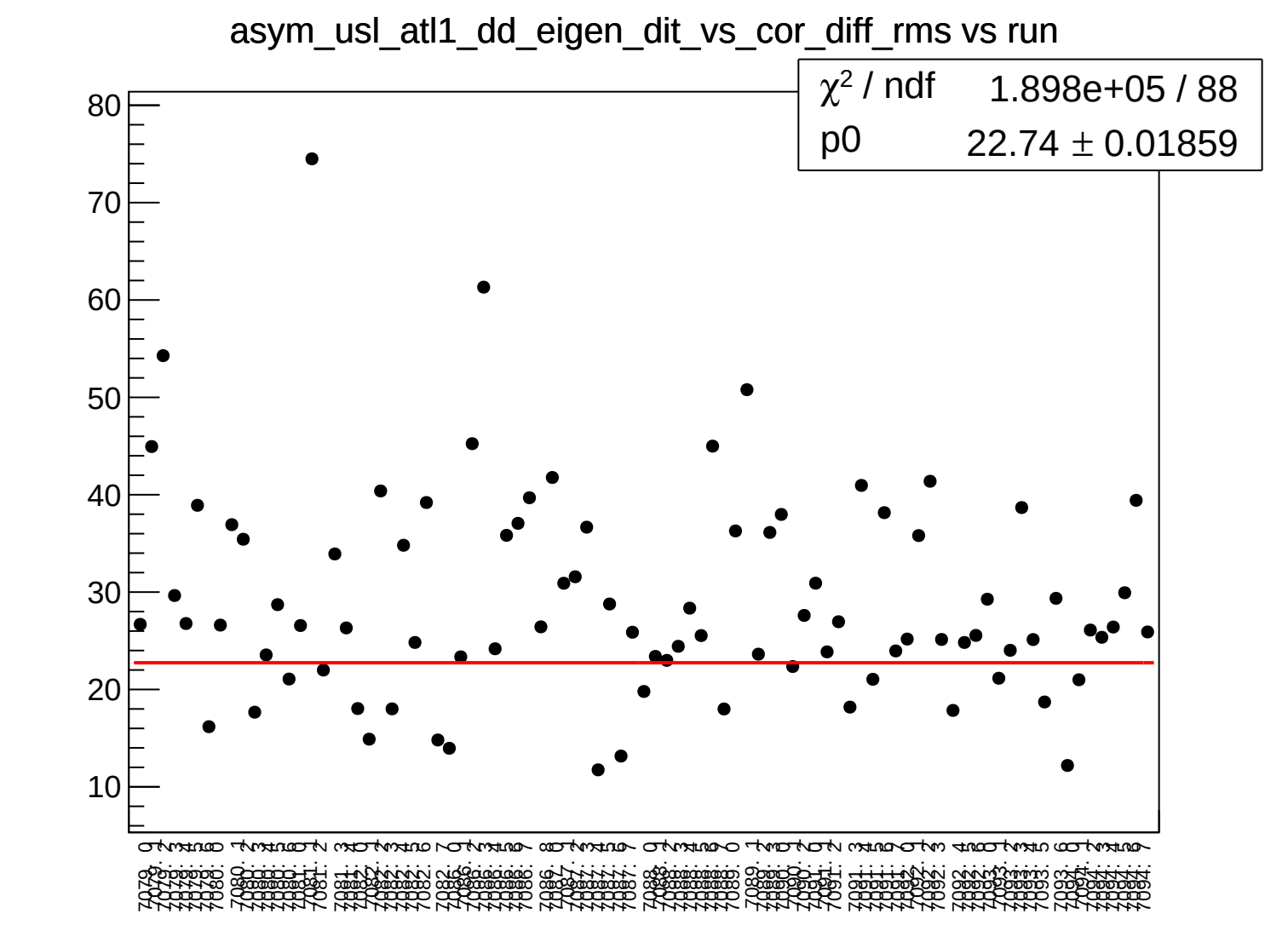

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.898e+05 / 88
p0 22.75 ± 0.01859
80
70
60
50
40
30
20
10

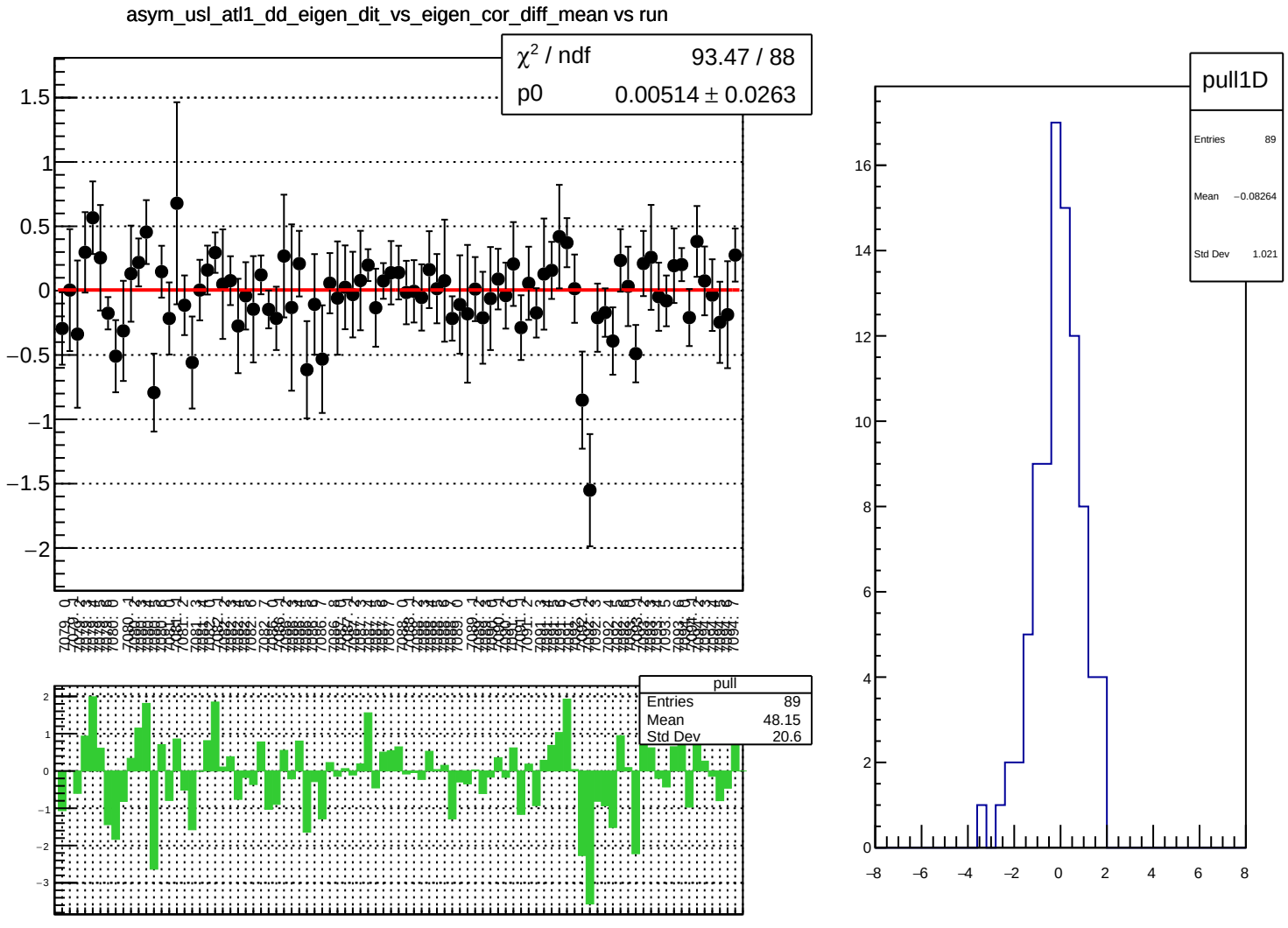

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.88 / 88
p0 −1.65e−06 ± 2.111e−06
pull
Entries 89
Mean 227.8
Std Dev 0
pull1D
Entries 89
Mean 0.02831
Std Dev 1.021

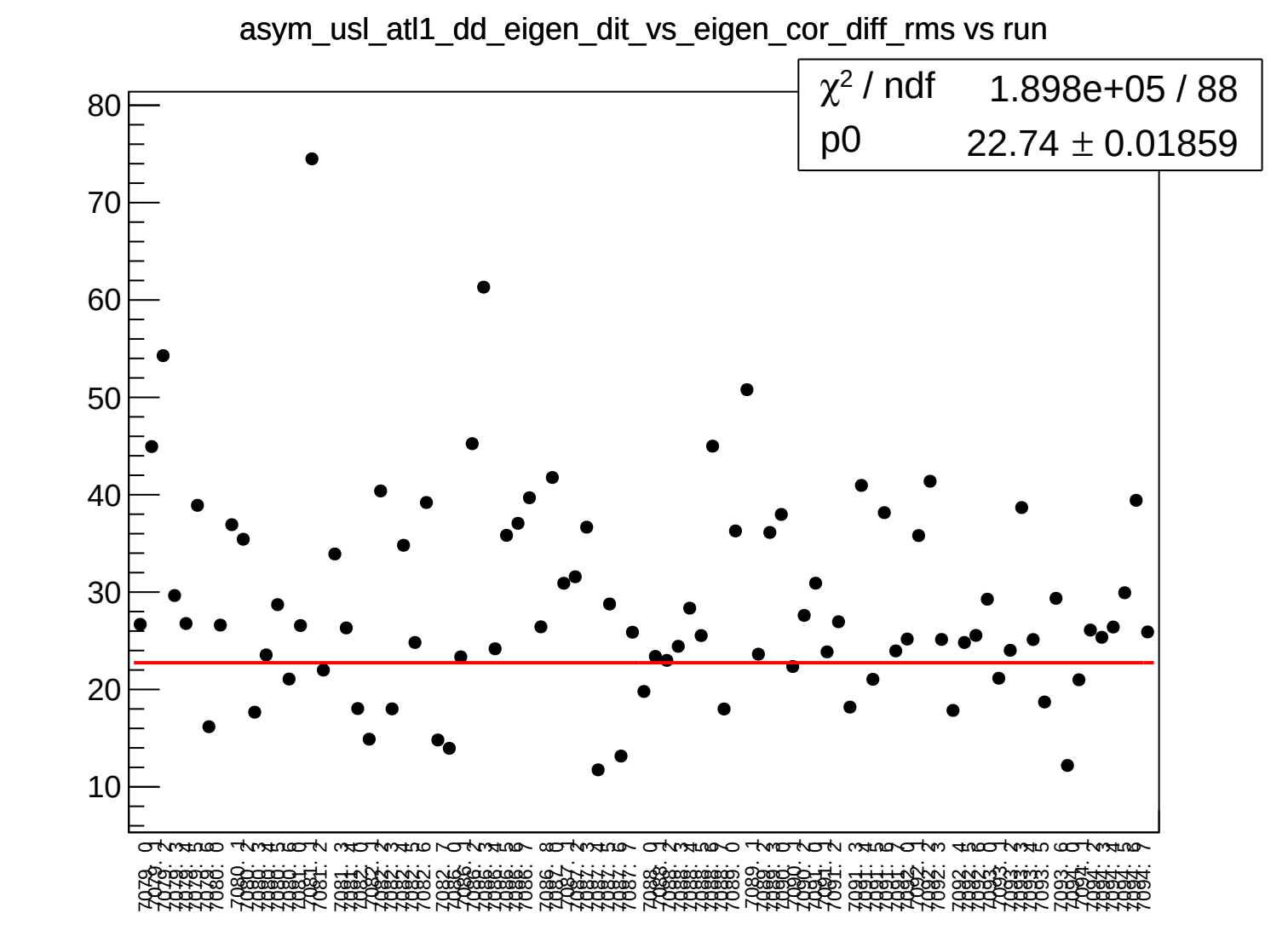

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.037e+04 / 88
p0 0.001926 ± 1.493e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

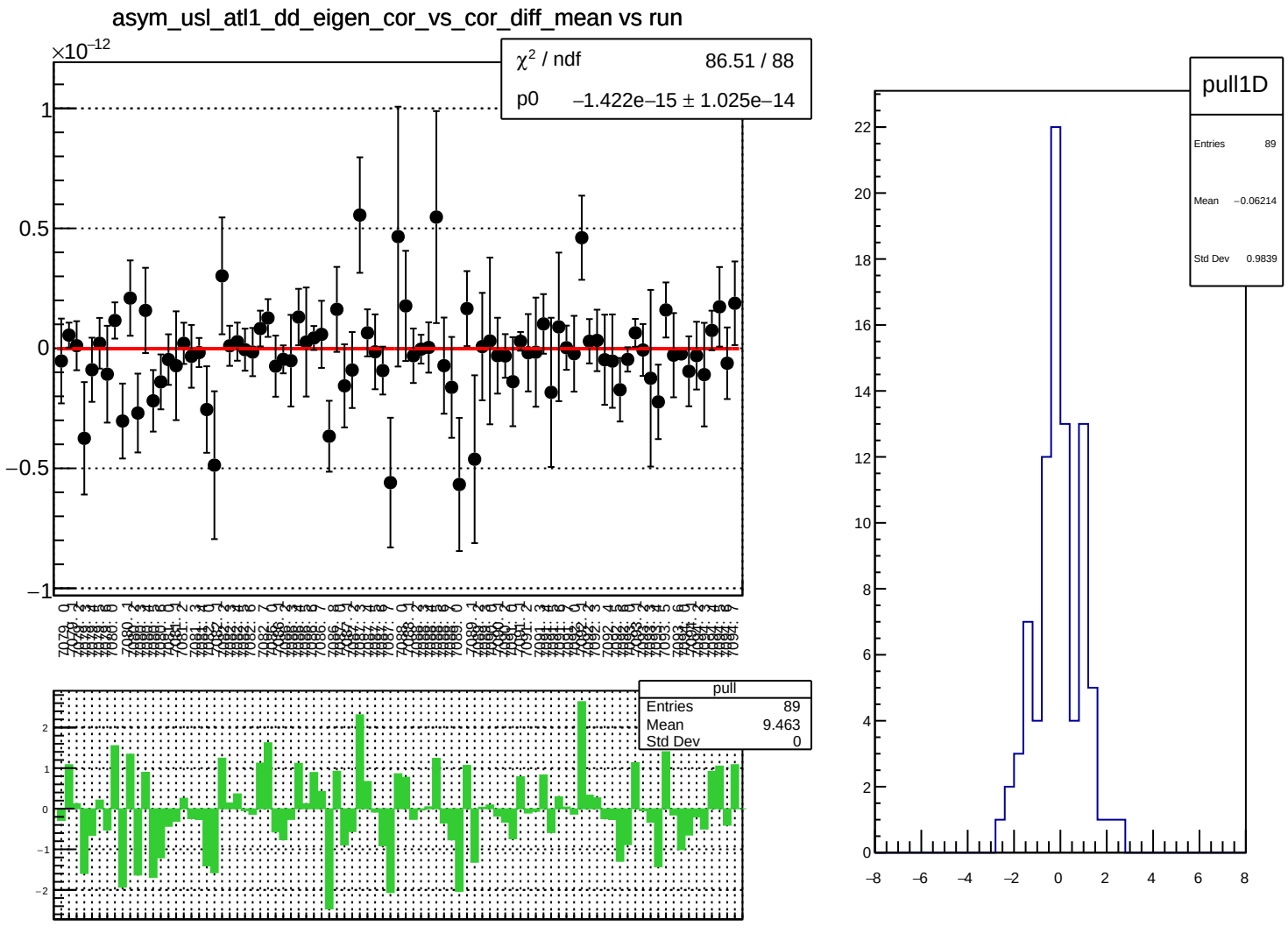

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 93.47 / 88
p0 0.00514 ± 0.0263
pull
Entries 89
Mean 48.15
Std Dev 20.6

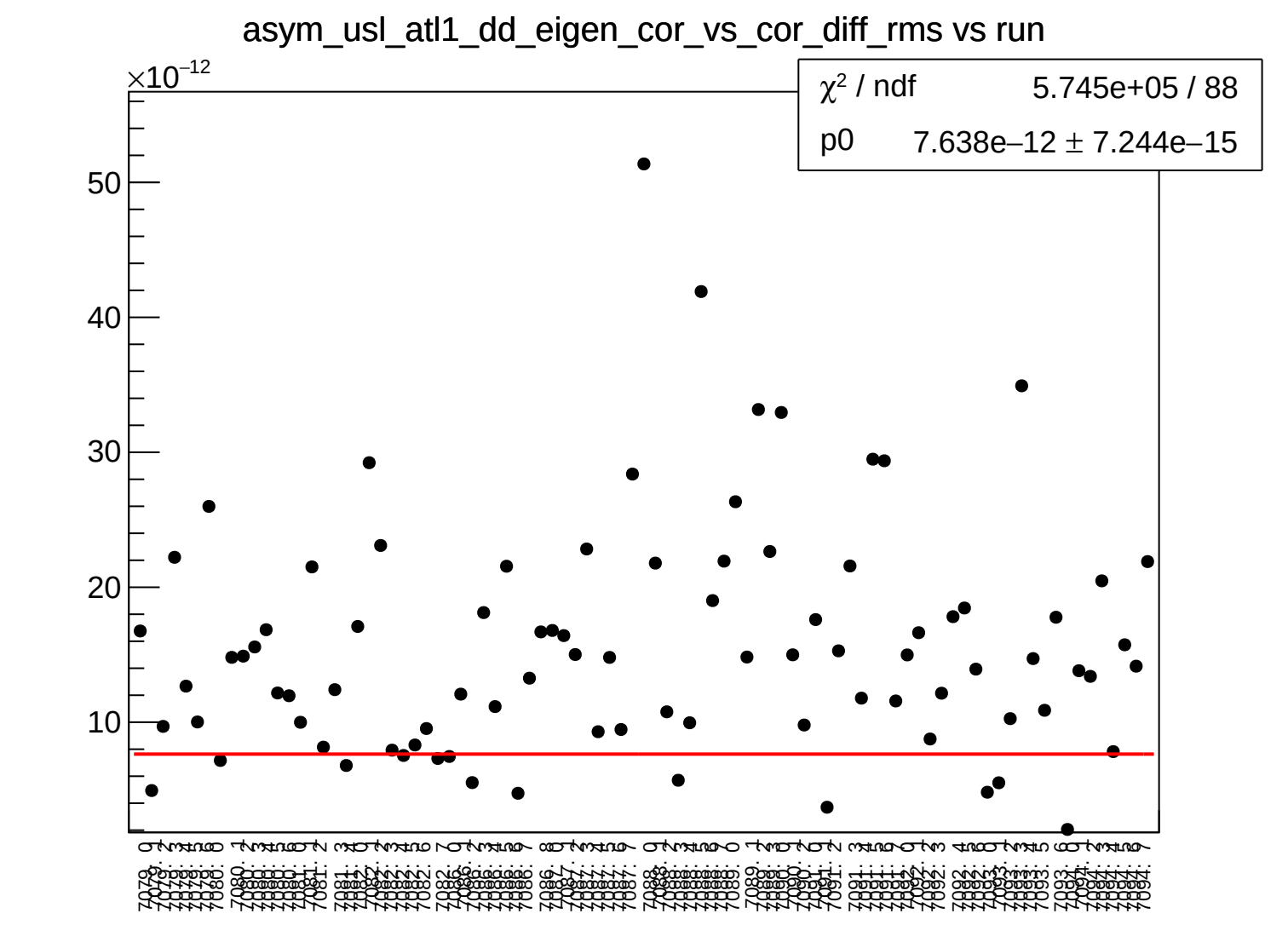

pull1D
Entries 89
Mean −0.08264
Std Dev 1.021

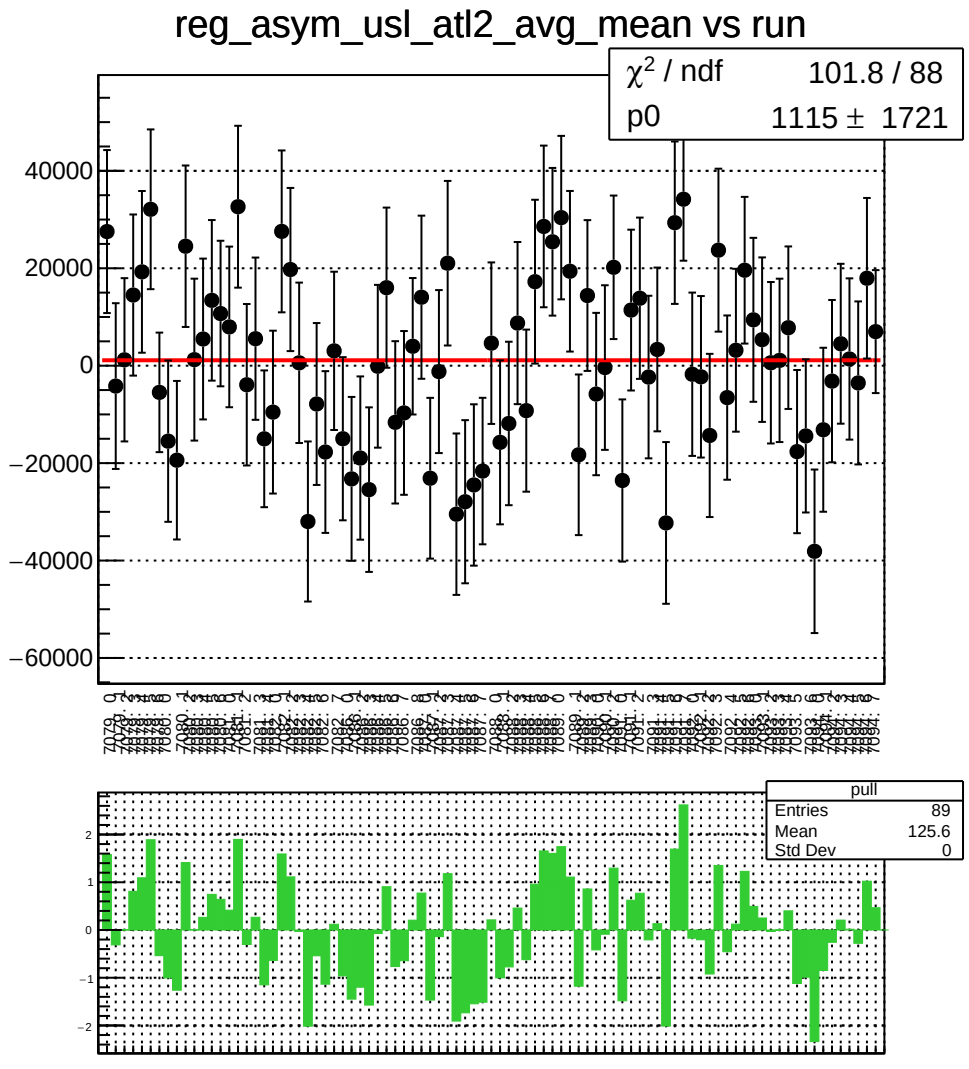

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.898e+05 / 88
p0 22.74 ± 0.01859
80
70
60
50
40
30
20
10

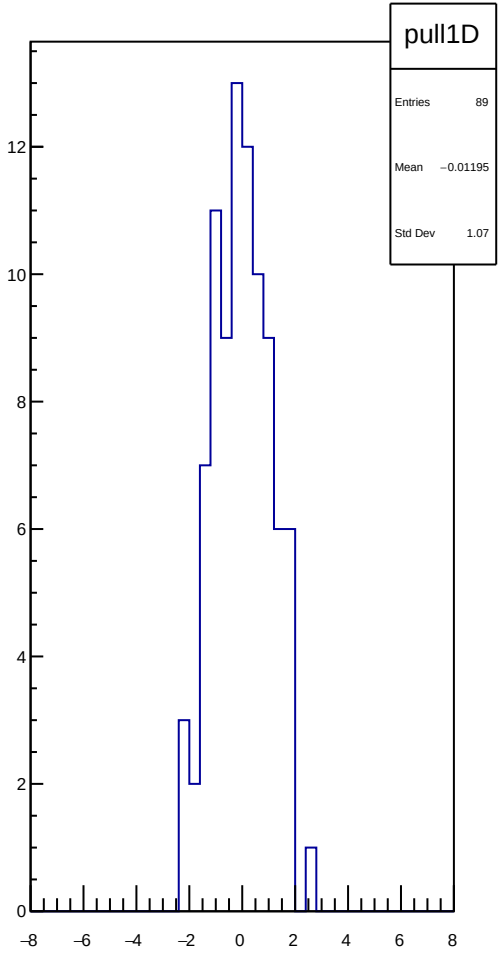

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.47 / 88
p0 0.00514 ± 0.0263
pull
Entries 89
Mean 48.15
Std Dev 20.6
pull1D
Entries 89
Mean −0.08264
Std Dev 1.021

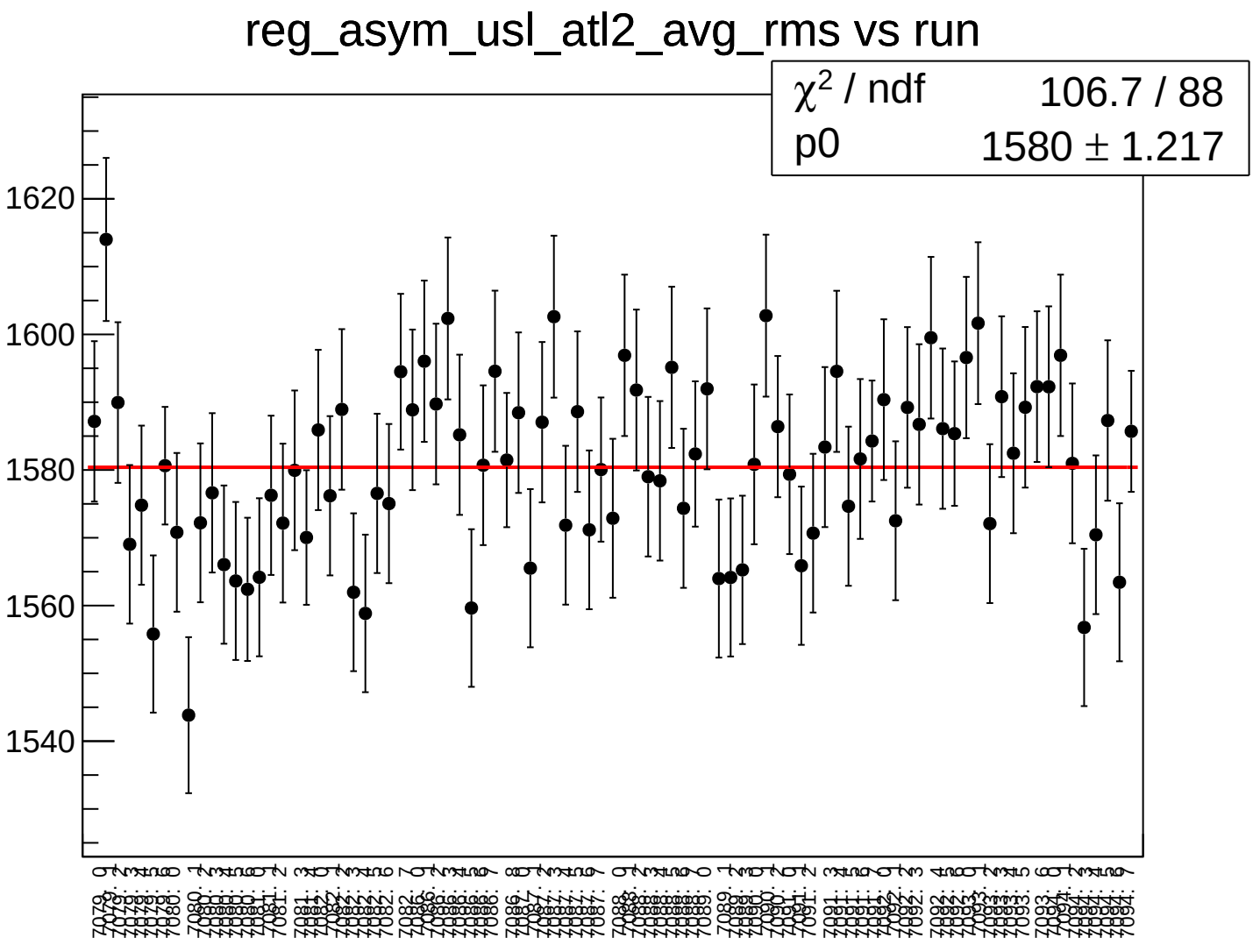

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.898e+05 / 88
p0 22.74 ± 0.01859
80
70
60
50
40
30
20
10

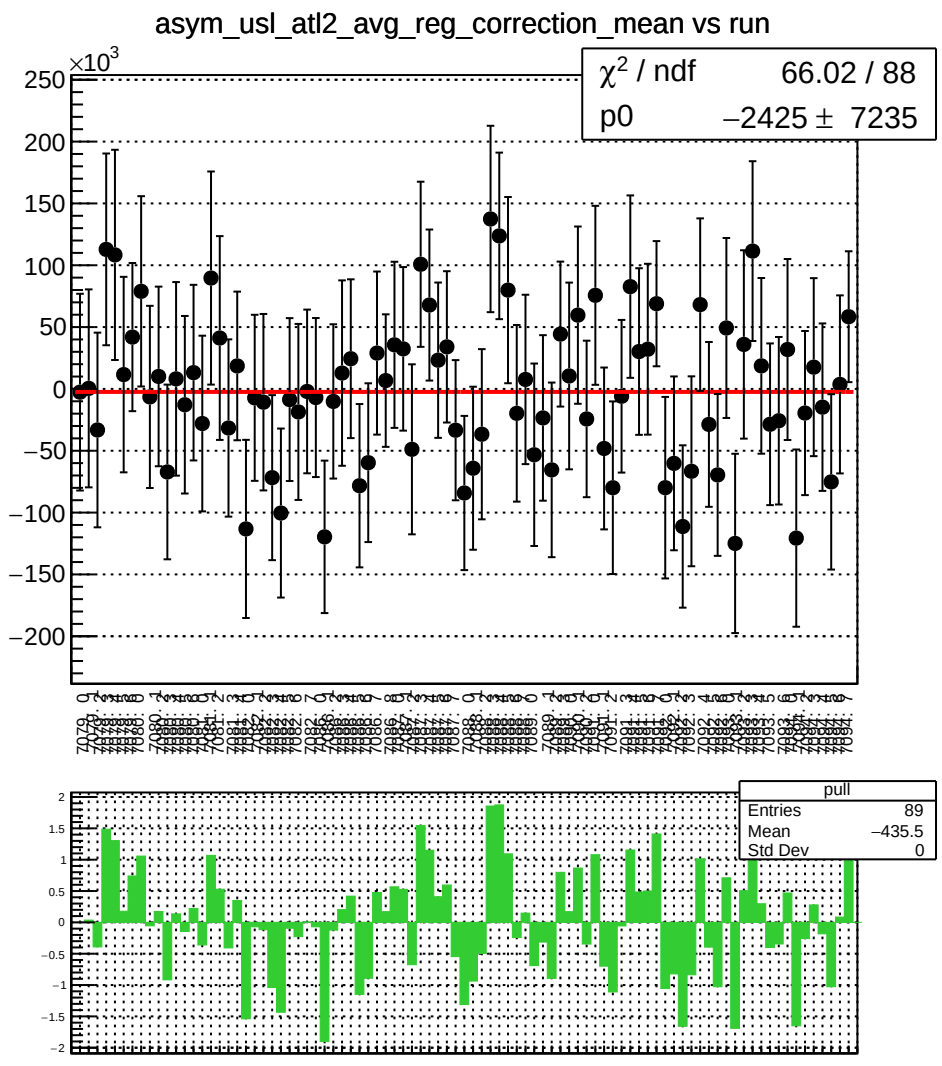

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.51 / 88
p0 −1.422e−15 ± 1.025e−14
pull
Entries 89
Mean 9.463
Std Dev 0
pull1D
Entries 89
Mean −0.06214
Std Dev 0.9839

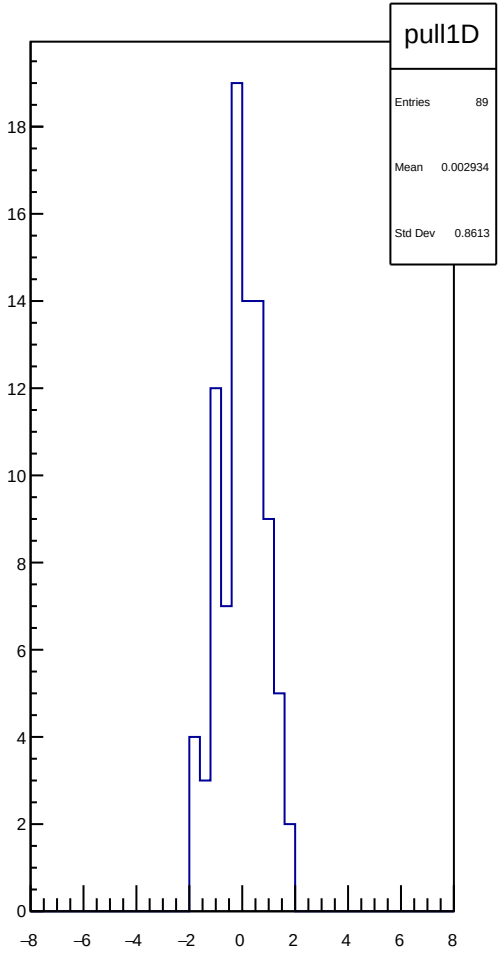

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.745e+05 / 88
p0 7.638e−12 ± 7.244e−15
50
40
30
20
10

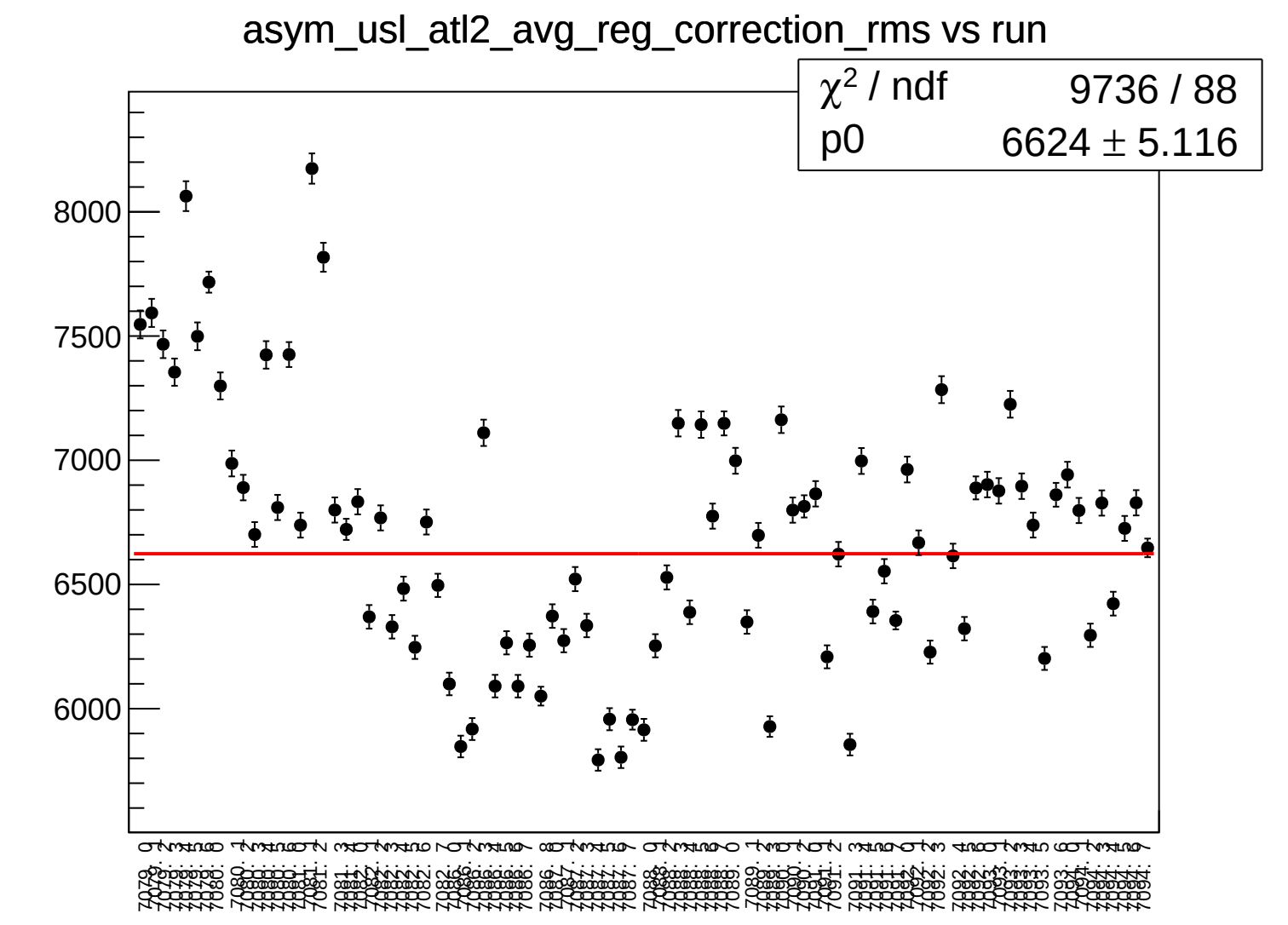

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 101.8 / 88
p0 1115 ± 1721
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 125.6
Std Dev 0
2
1
0
−1
−2

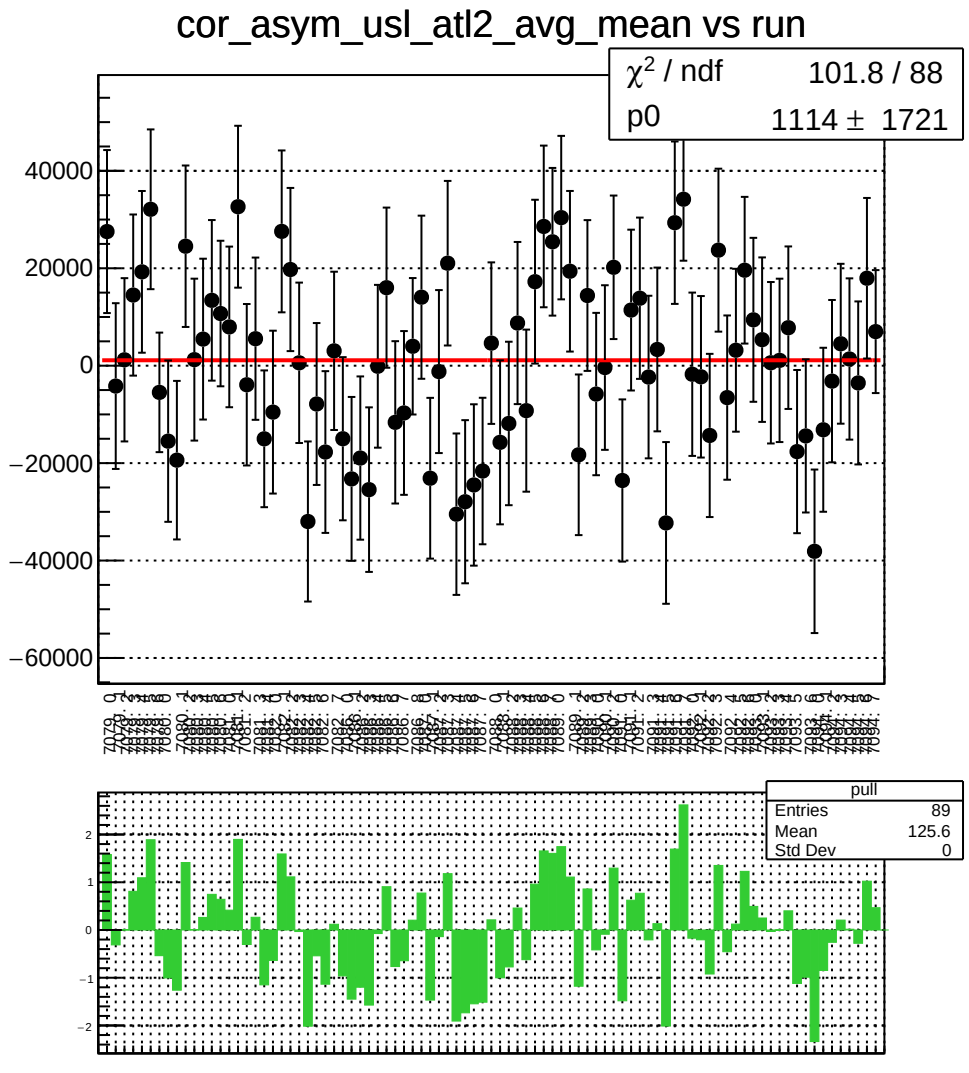

pull1D
Entries 89
Mean −0.01195
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

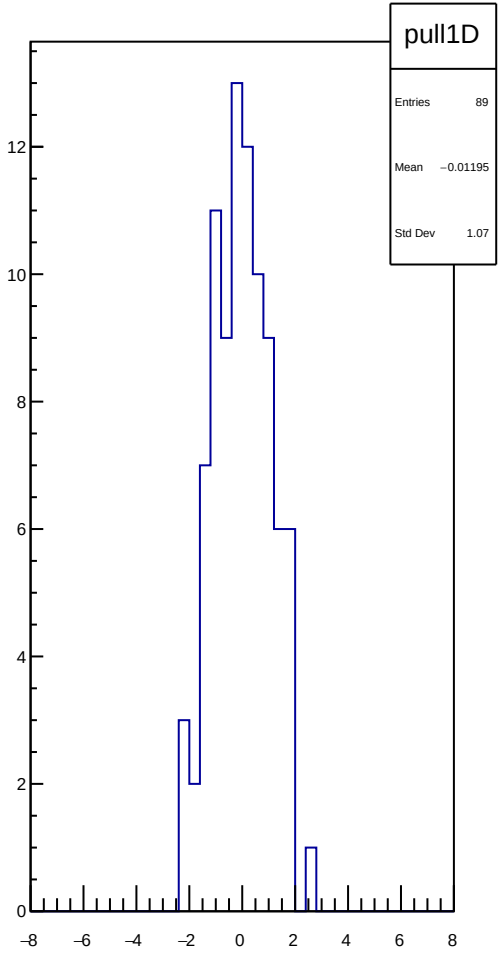

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 106.7 / 88
p0 1580 ± 1.217
1620
1600
1580
1560
1540

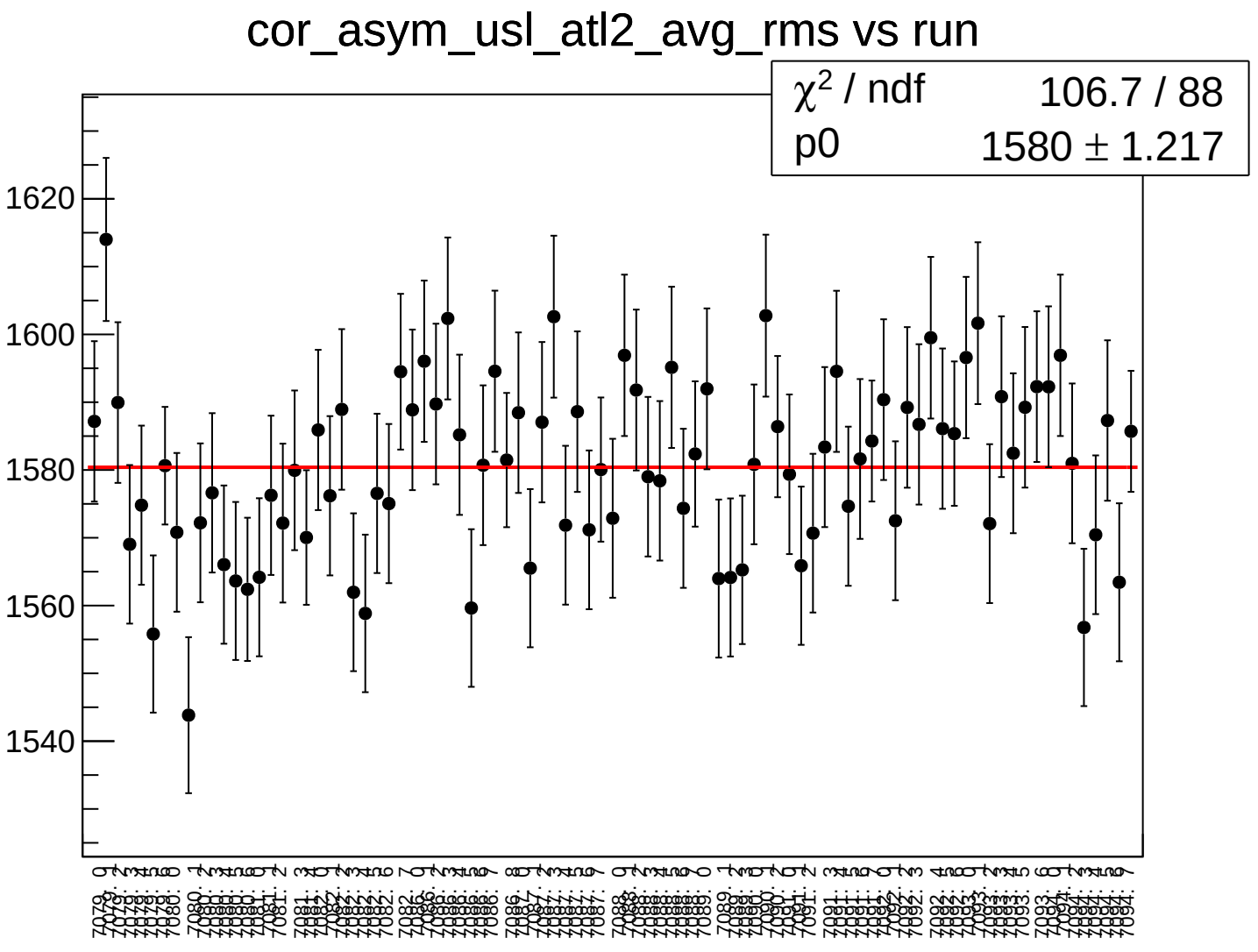

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 66.02 / 88
p0 −2425 ± 7235
pull
Entries 89
Mean −435.5
Std Dev 0

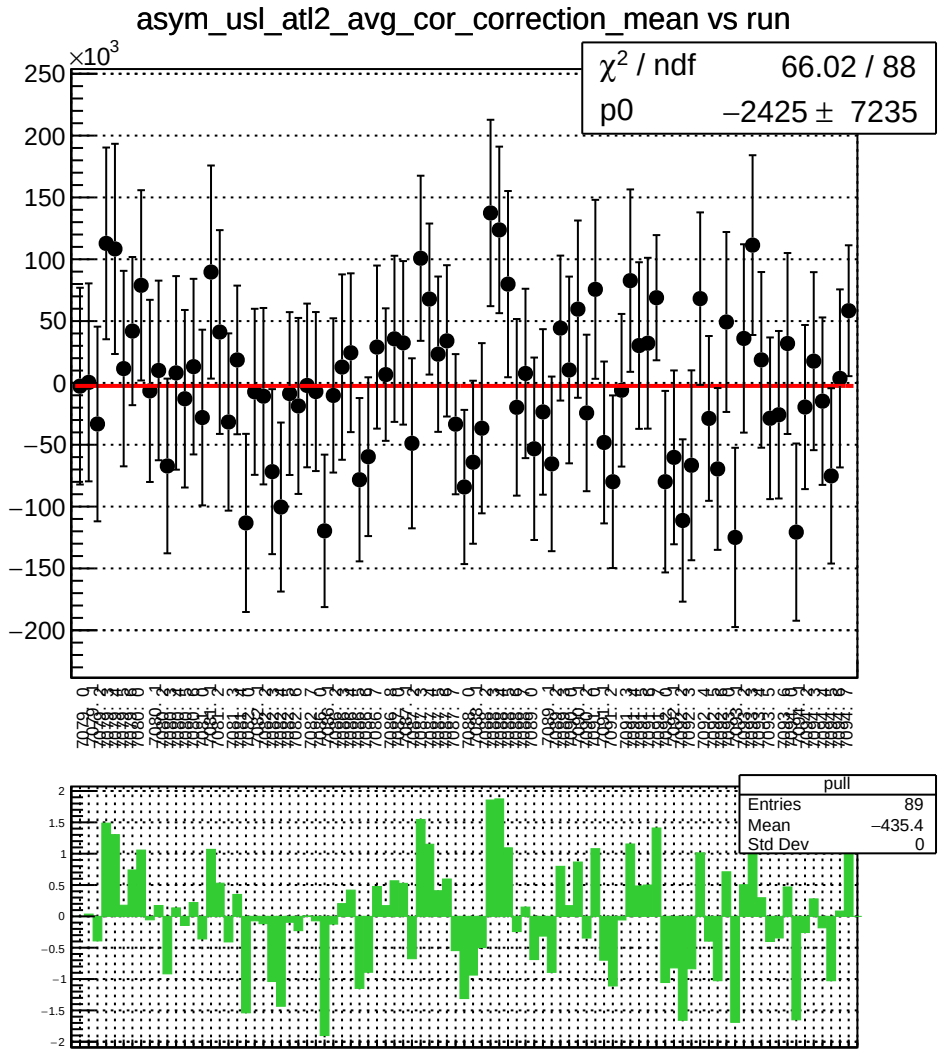

pull1D
Entries 89
Mean 0.002934
Std Dev 0.8613

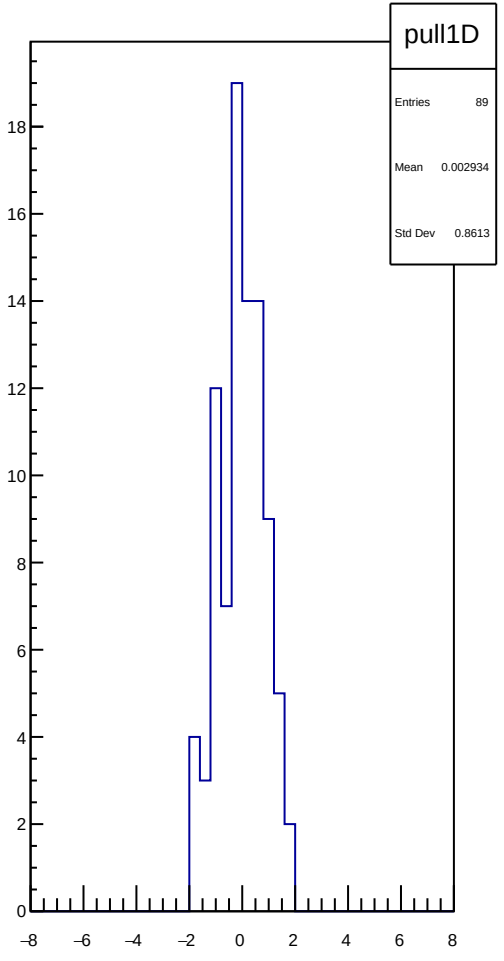

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 9736 / 88
p0 6624 ± 5.116
8000
7500
7000
6500
6000

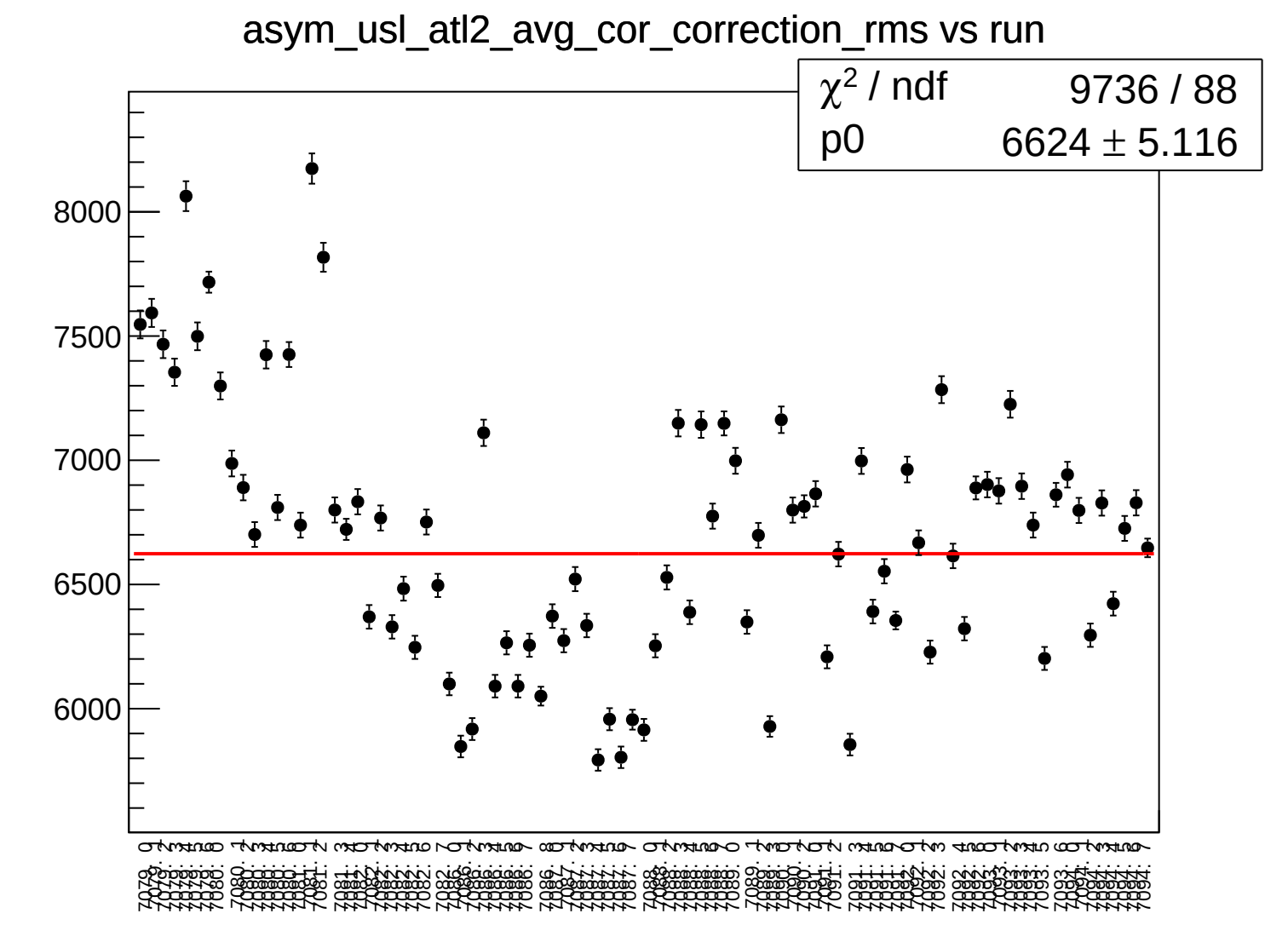

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 101.8 / 88
p0 1114 ± 1721
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 125.6
Std Dev 0
2
1
0
−1
−2

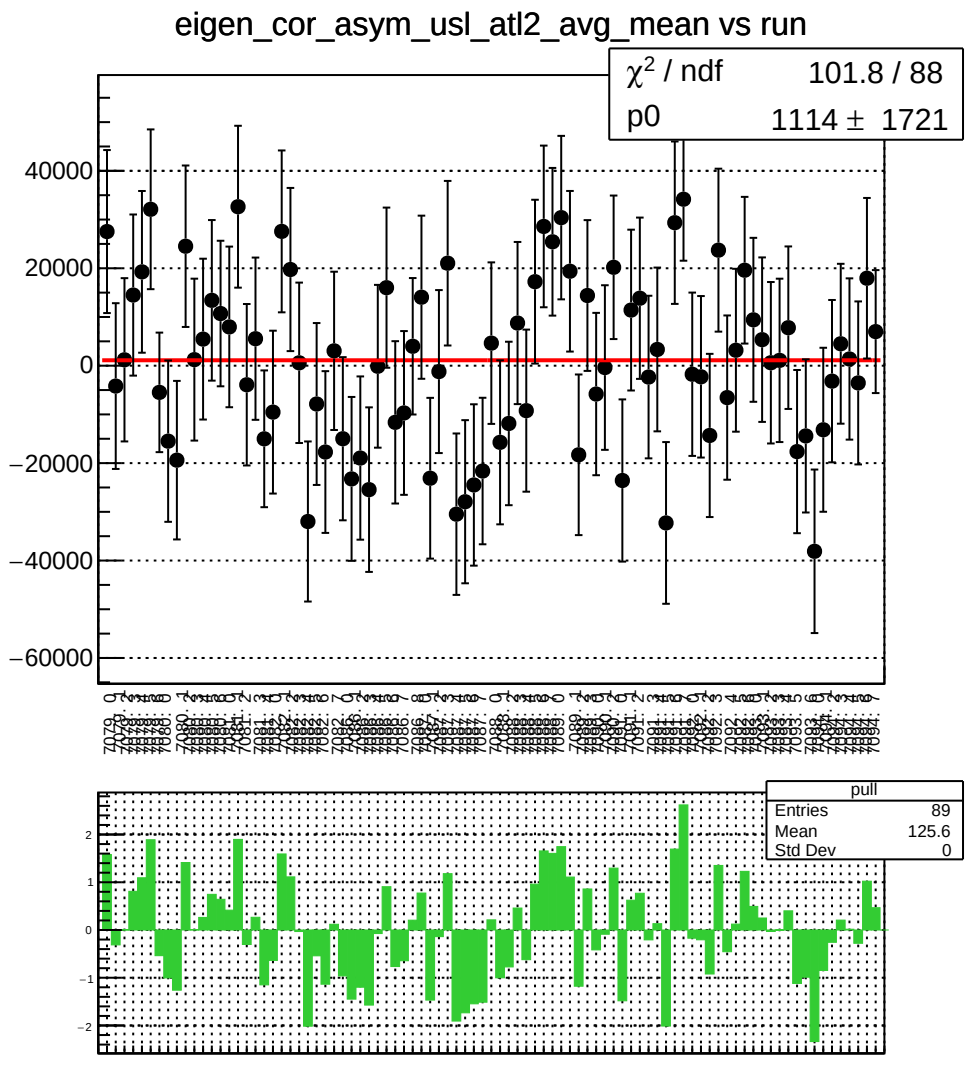

pull1D
Entries 89
Mean −0.01195
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

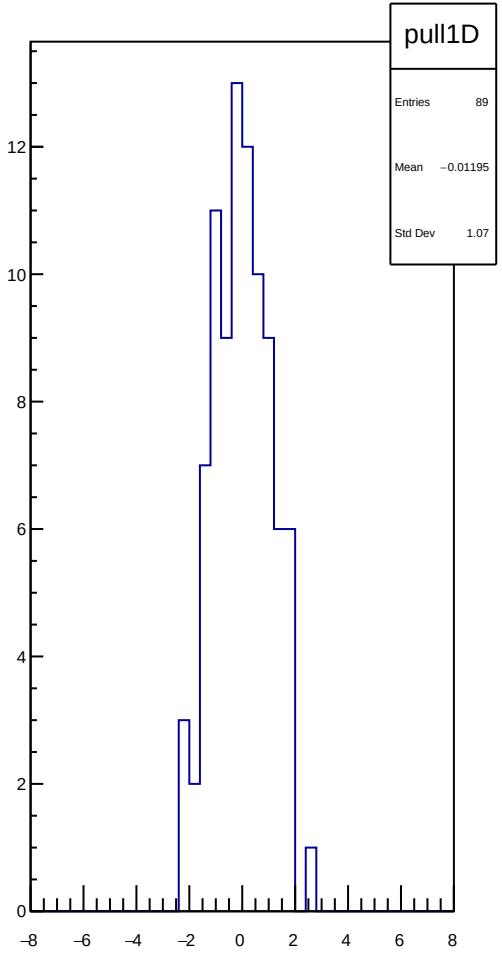

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 106.7 / 88
p0 1580 ± 1.217
1620
1600
1580
1560
1540

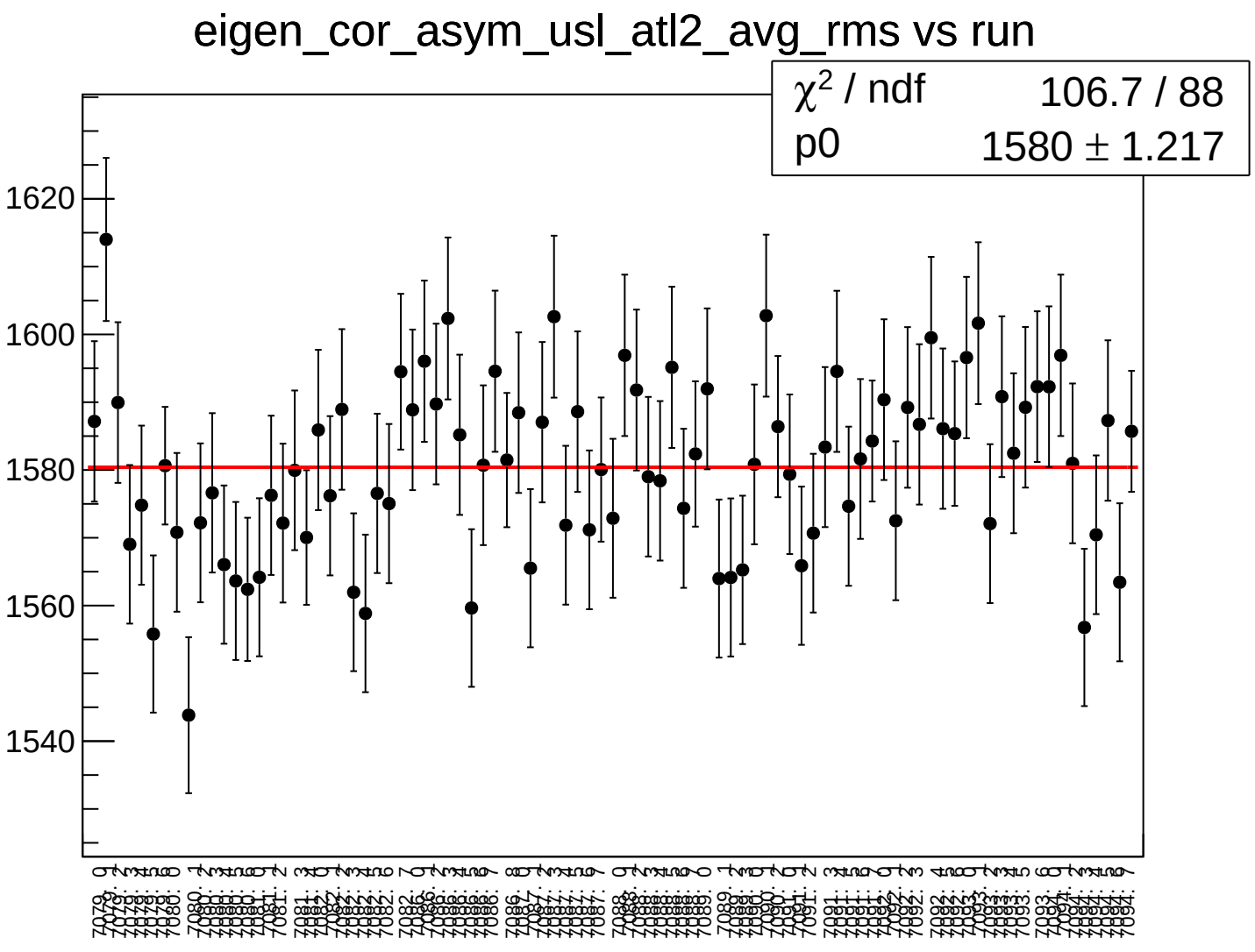

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 66.02 / 88
p0 −2425 ± 7235
pull
Entries 89
Mean −435.4
Std Dev 0

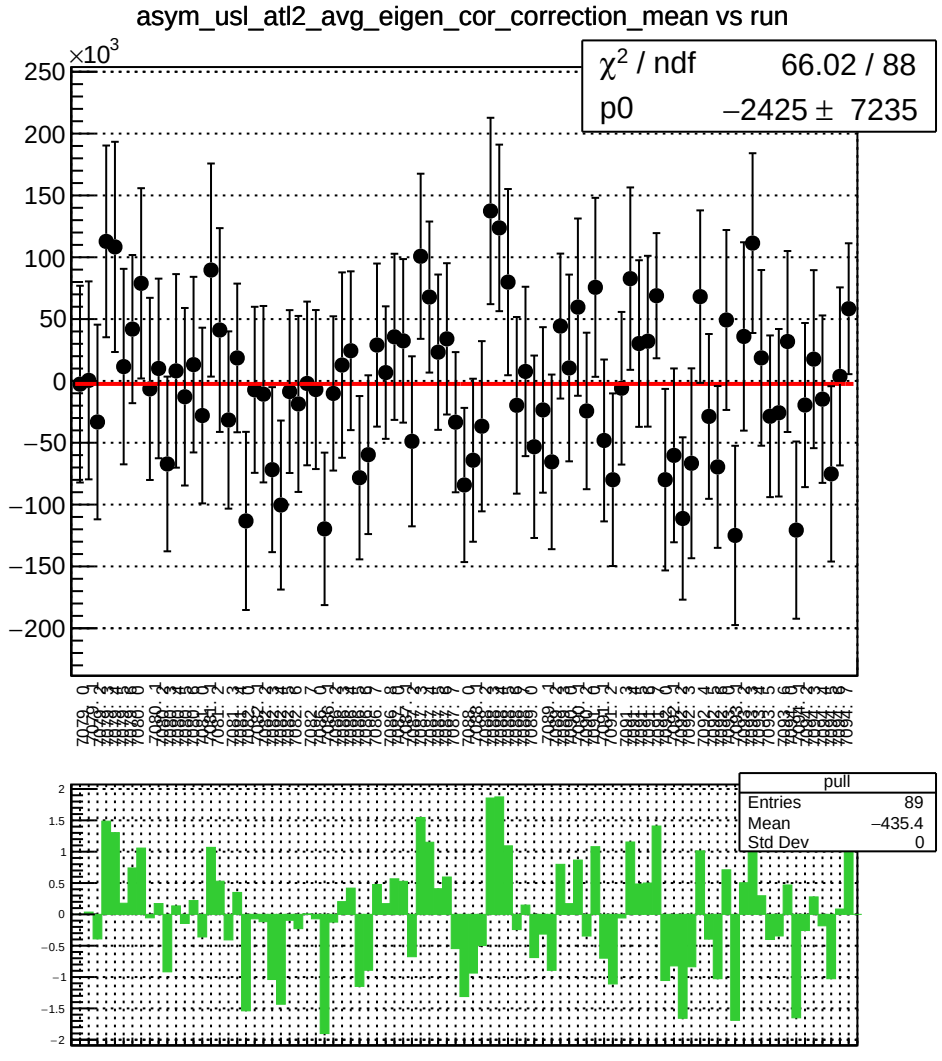

pull1D
Entries 89
Mean 0.002934
Std Dev 0.8613

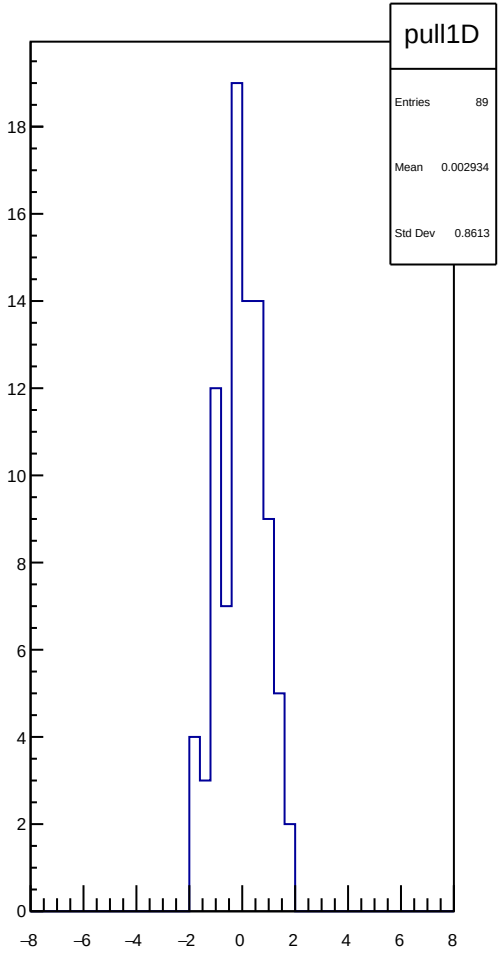

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 9736 / 88
p0 6624 ± 5.116
8000
7500
7000
6500
6000

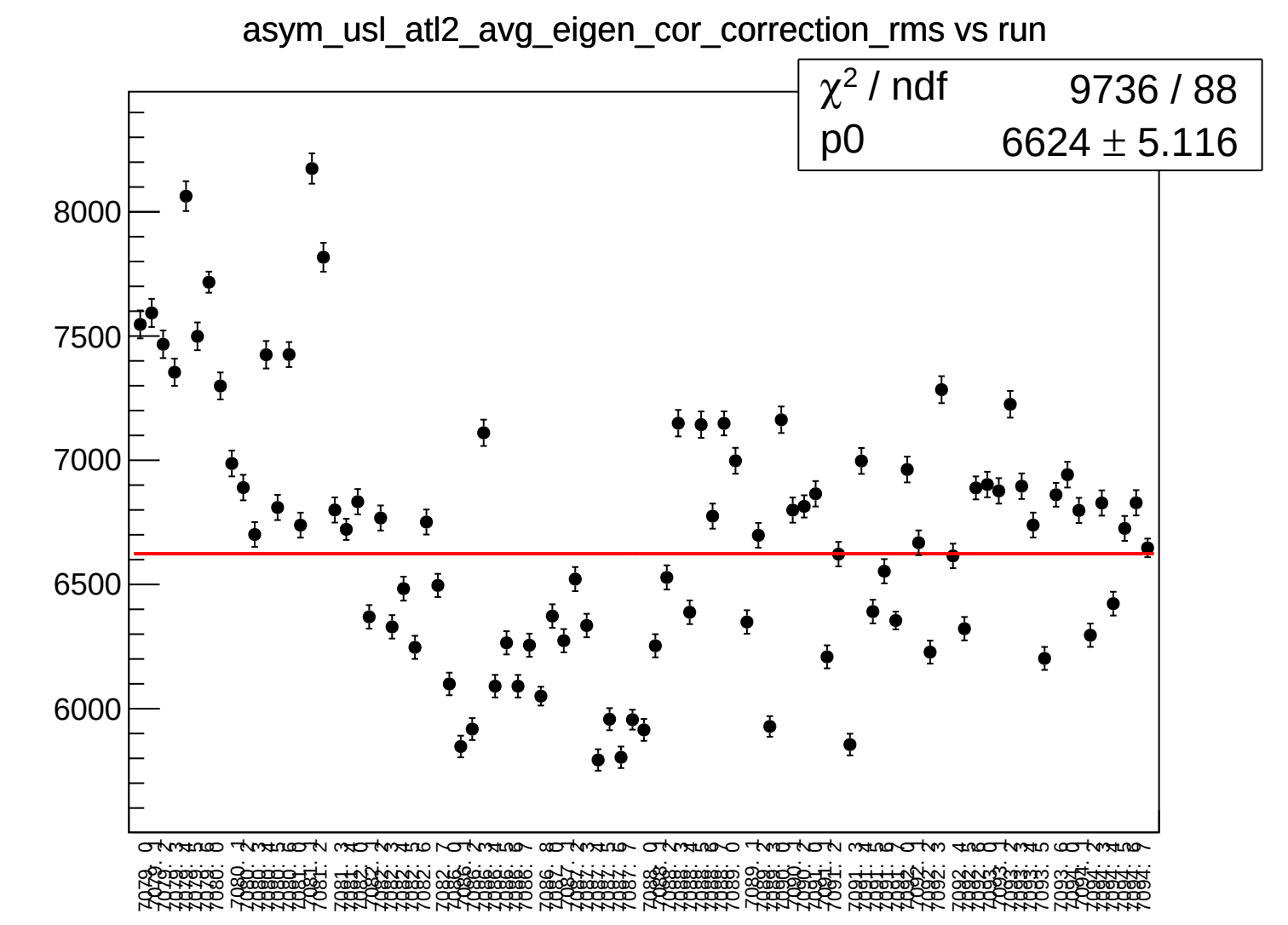

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 101.8 / 88
p0 1114 ± 1721
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 125.6
Std Dev 0
2
1
0
−1
−2

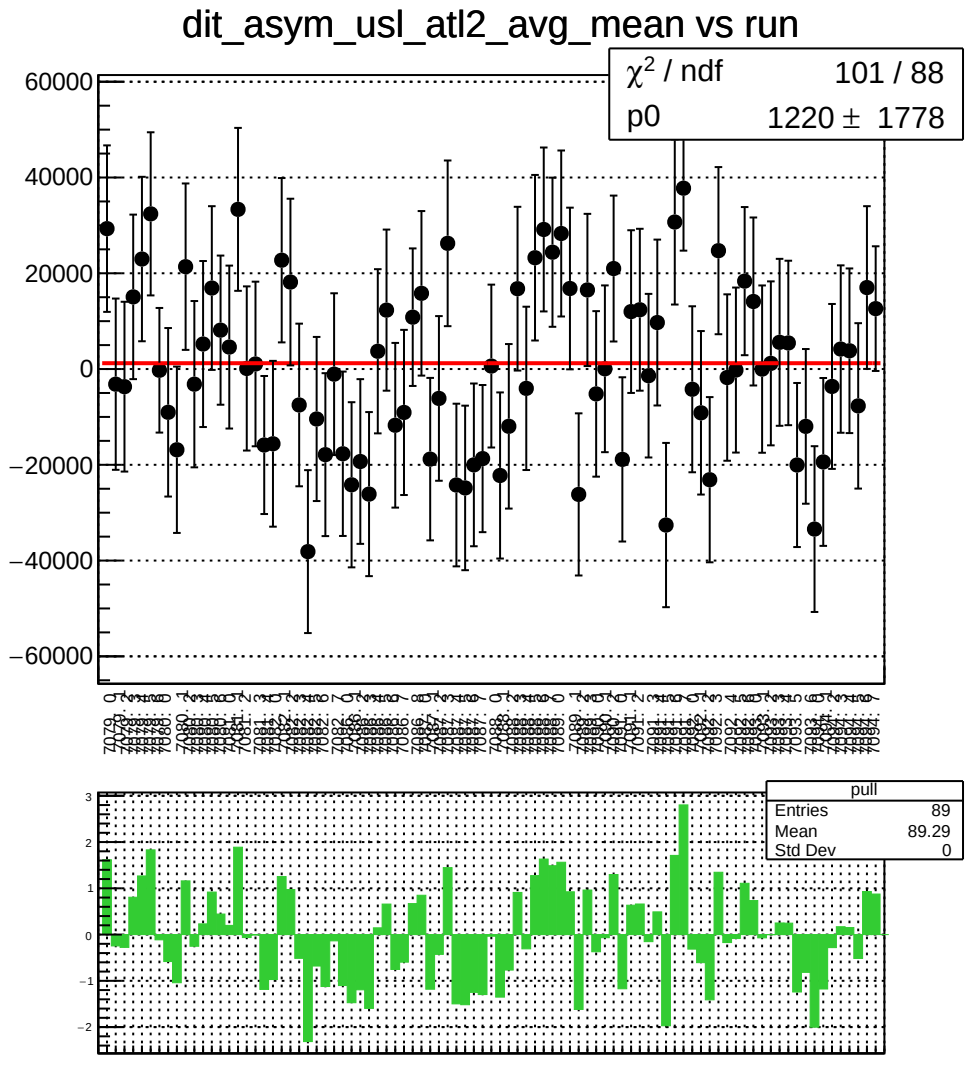

pull1D
Entries 89
Mean −0.01195
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

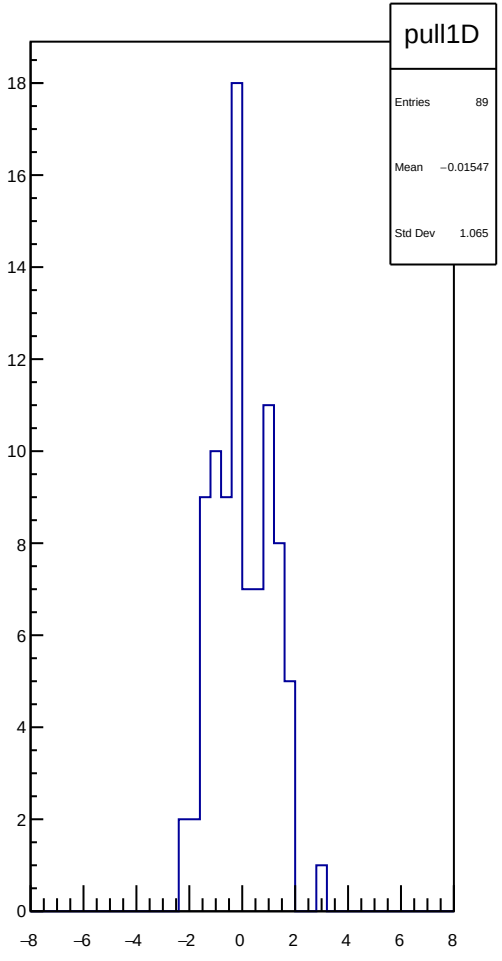

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 106.7 / 88
p0 1580 ± 1.217
1620
1600
1580
1560
1540

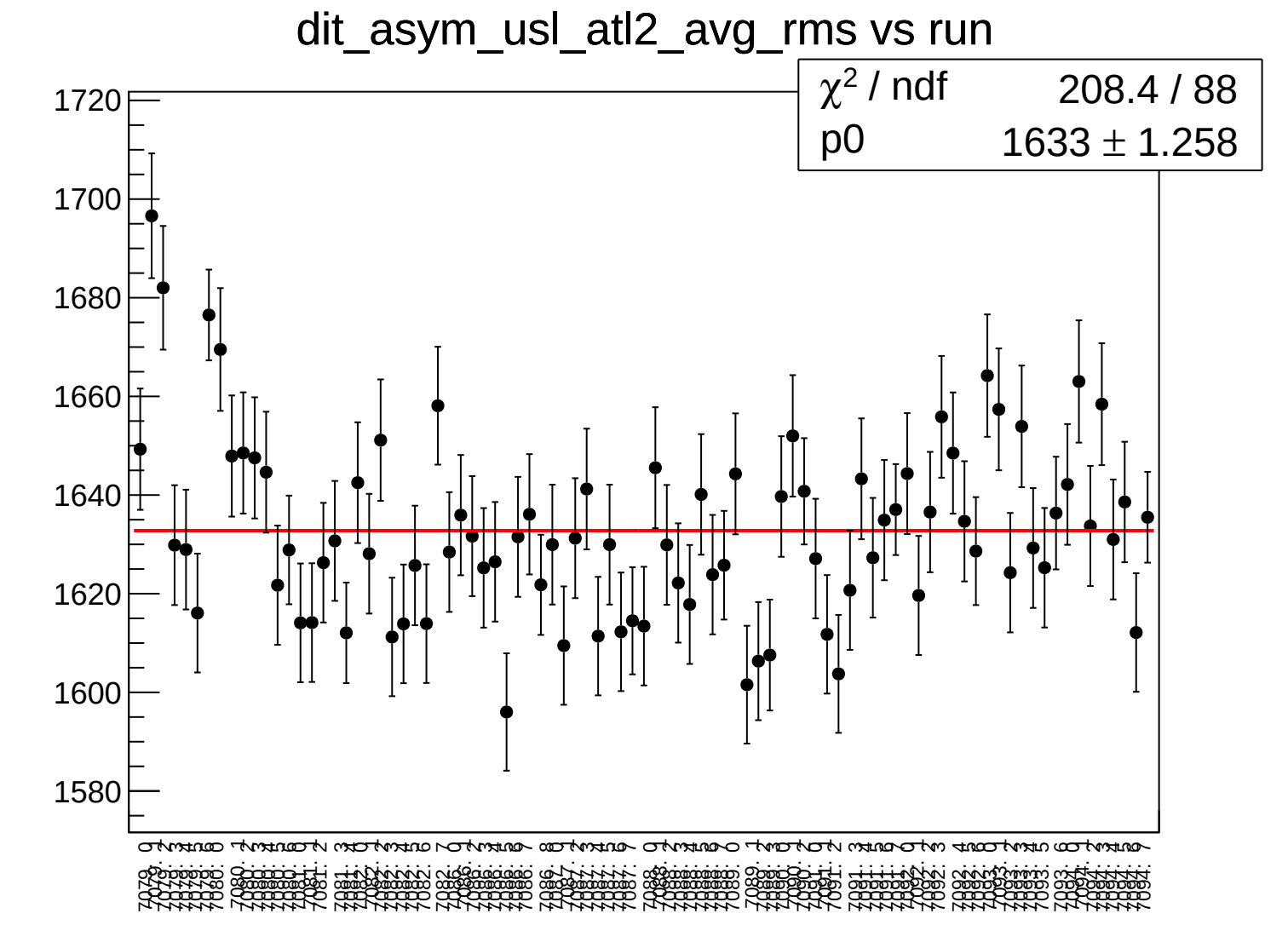

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.02 / 88
p0 −2425 ± 7235
pull
Entries 89
Mean −435.4
Std Dev 0

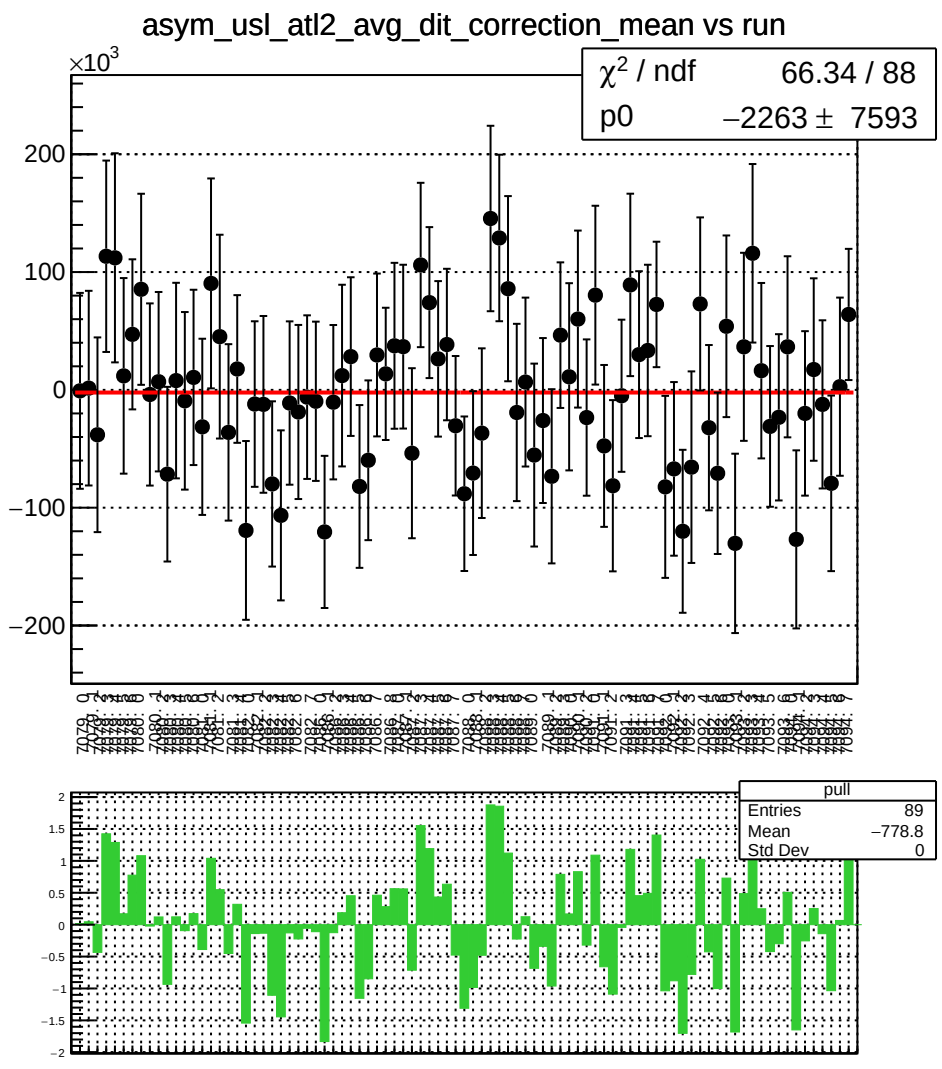

pull1D
Entries 89
Mean 0.002934
Std Dev 0.8613

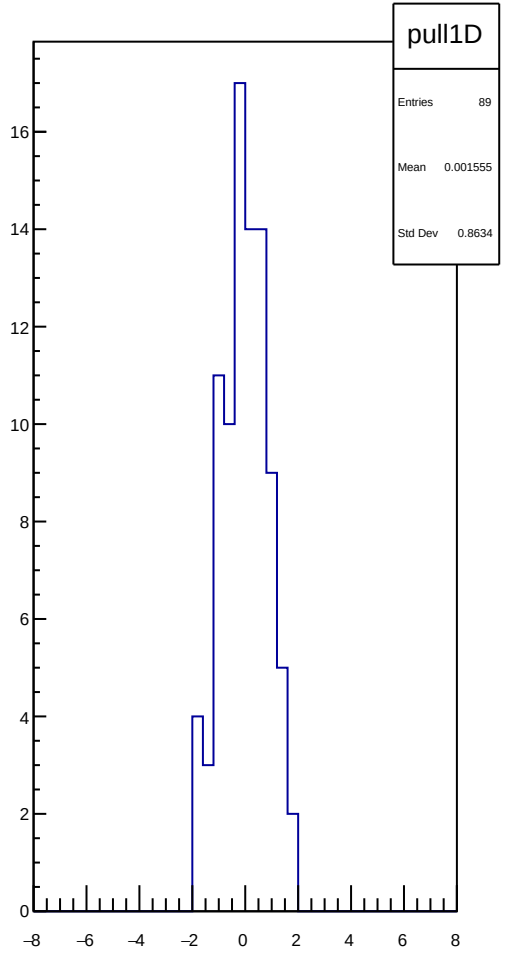

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9736 / 88
p0 6624 ± 5.116
8000
7500
7000
6500
6000

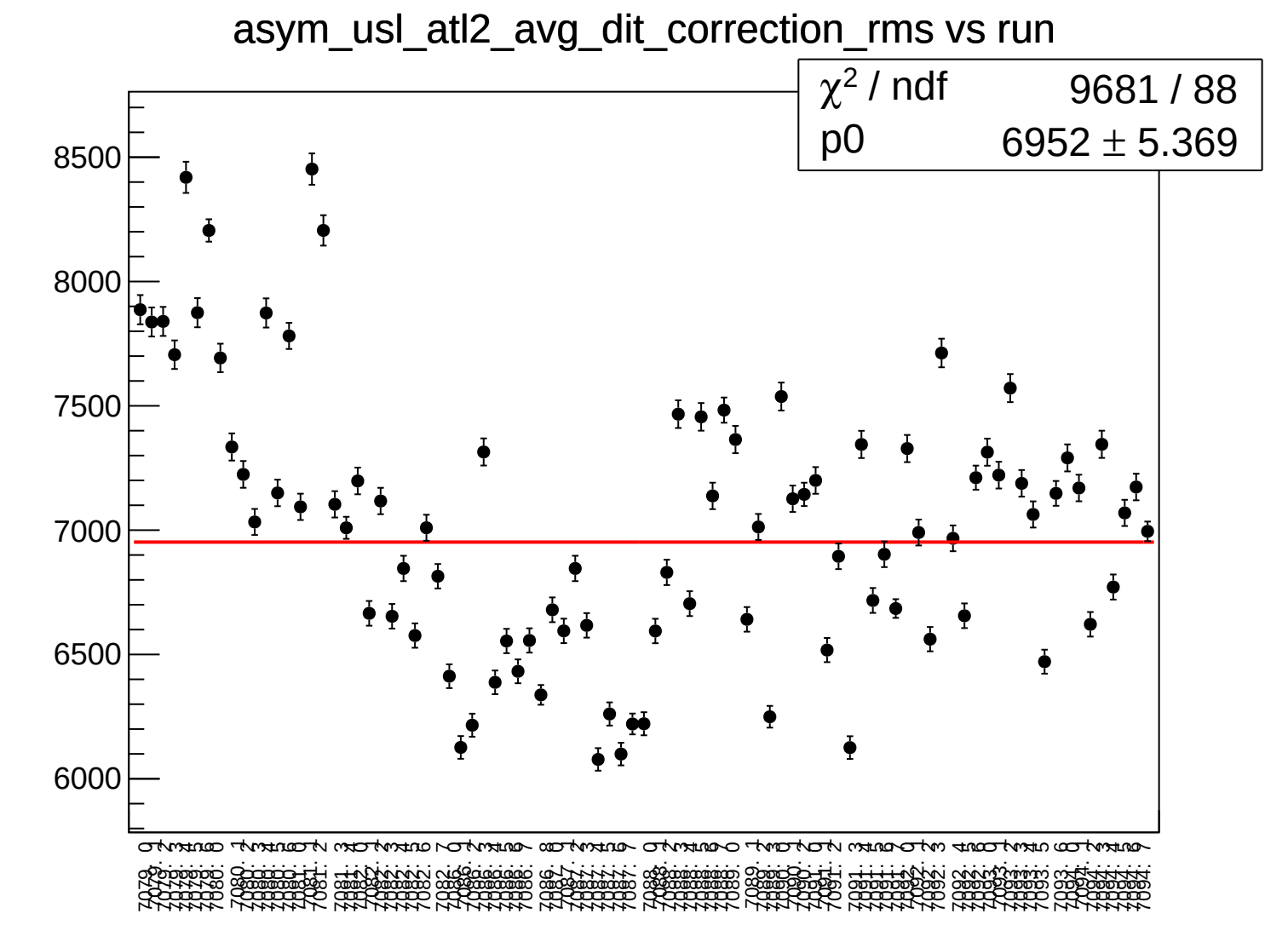

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 101 / 88
p0 1220 ± 1778
pull
Entries 89
Mean 89.29
Std Dev 0

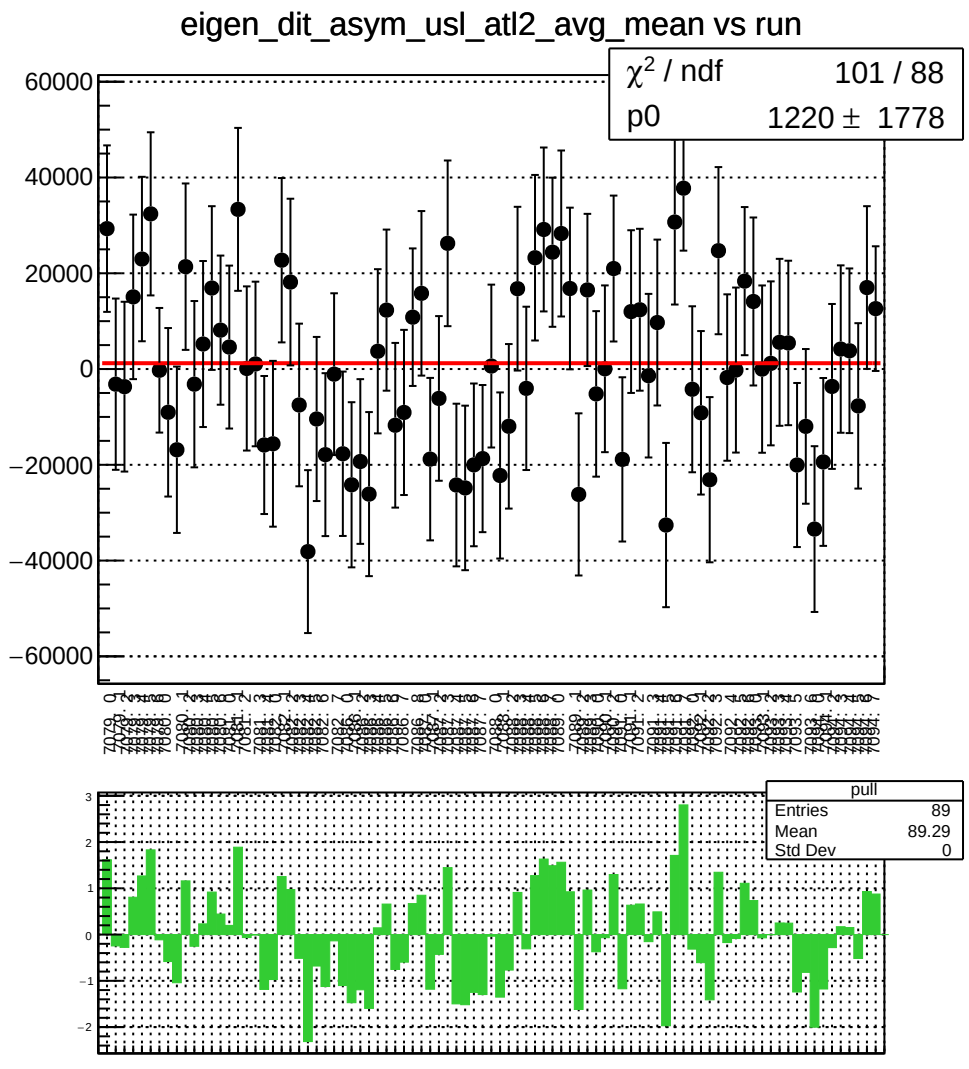

pull1D
Entries 89
Mean −0.01547
Std Dev 1.065

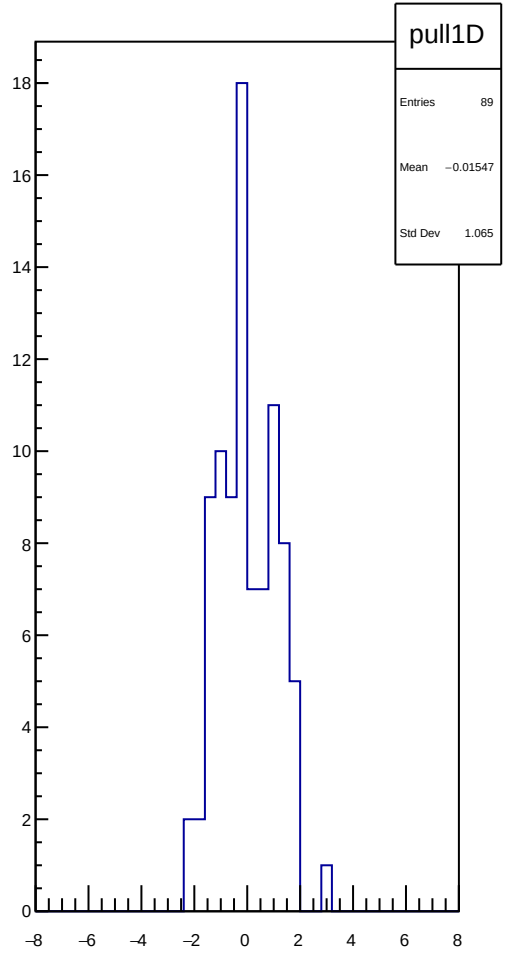

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 208.4 / 88
p0 1633 ± 1.258
1720
1700
1680
1660
1640
1620
1600
1580

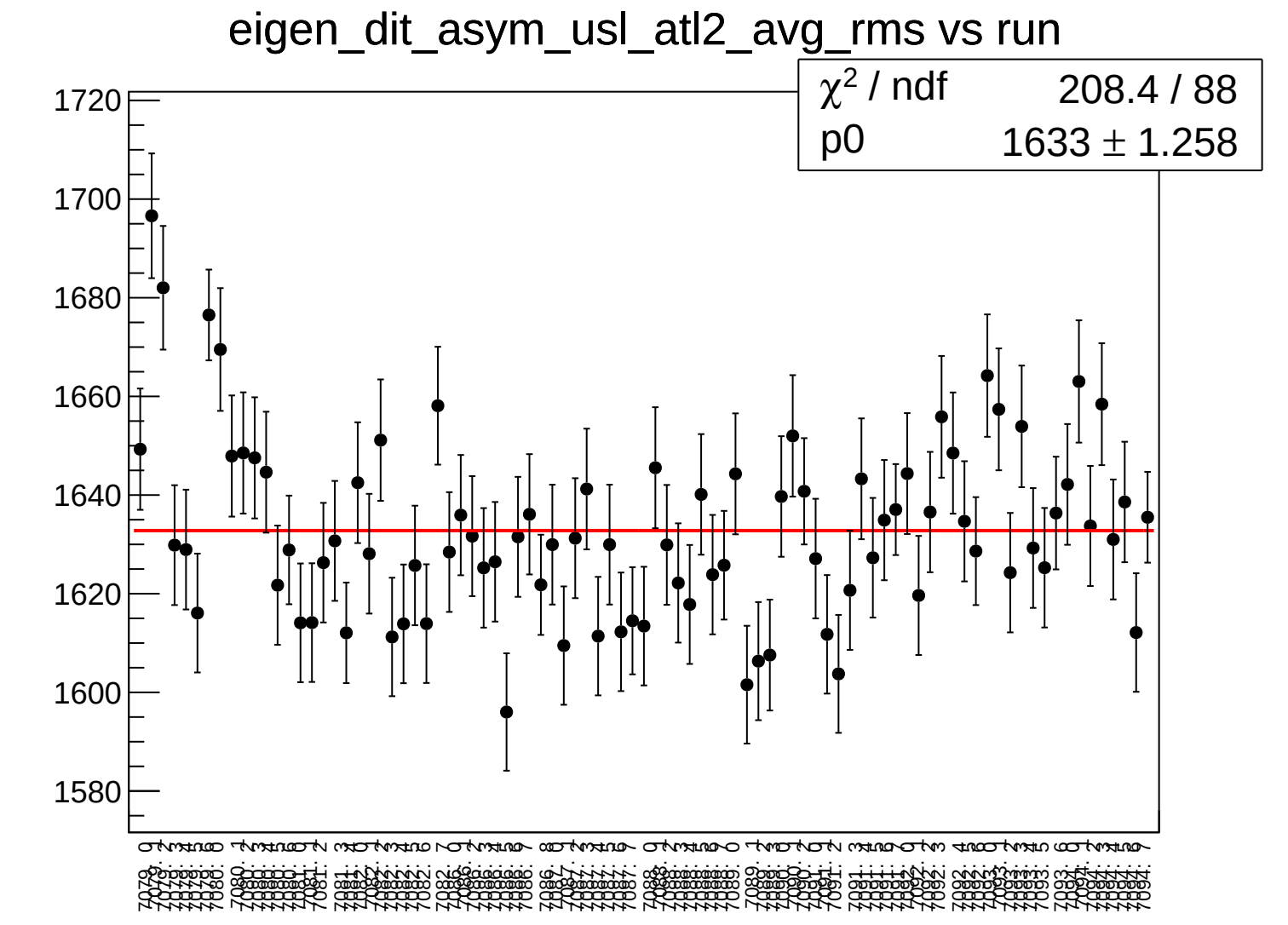

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.34 / 88
p0 −2263 ± 7593
200
100
0
−100
−200
pull
Entries 89
Mean −778.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

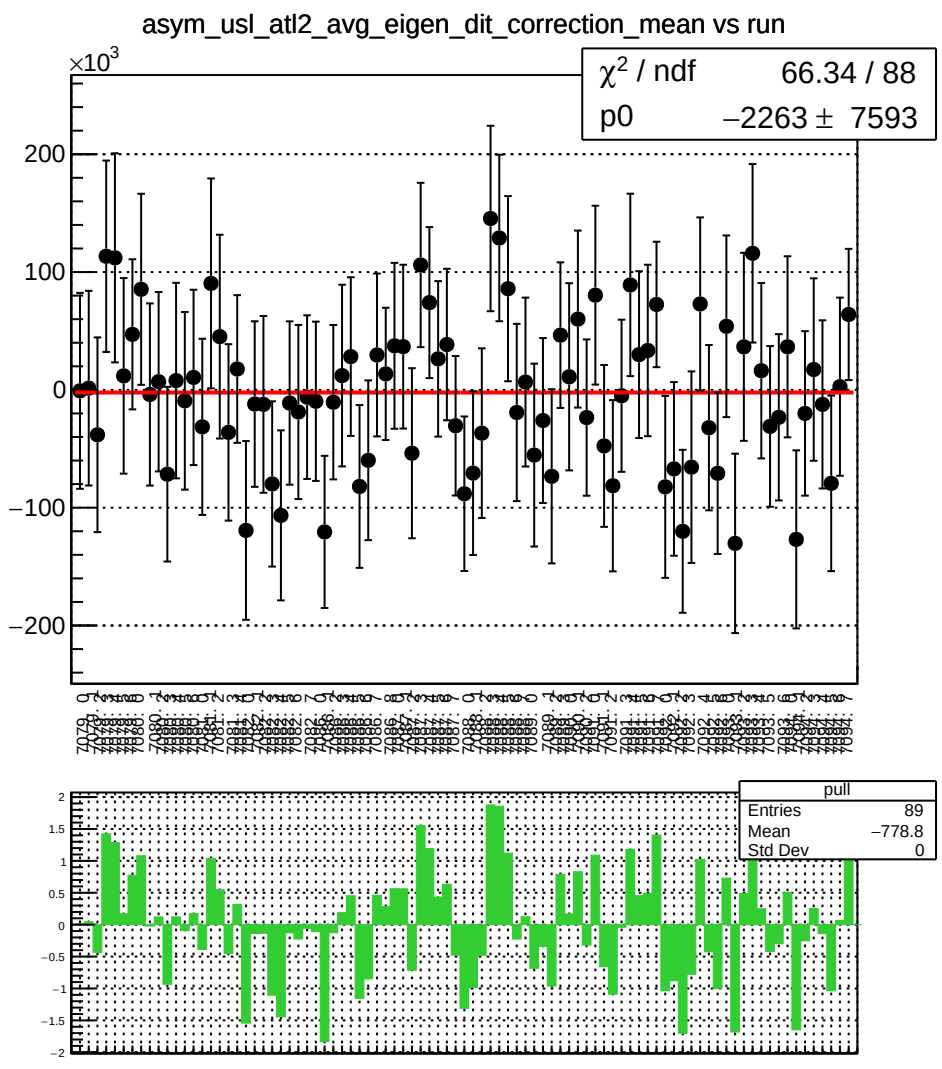

pull1D
Entries 89
Mean 0.001555
Std Dev 0.8634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

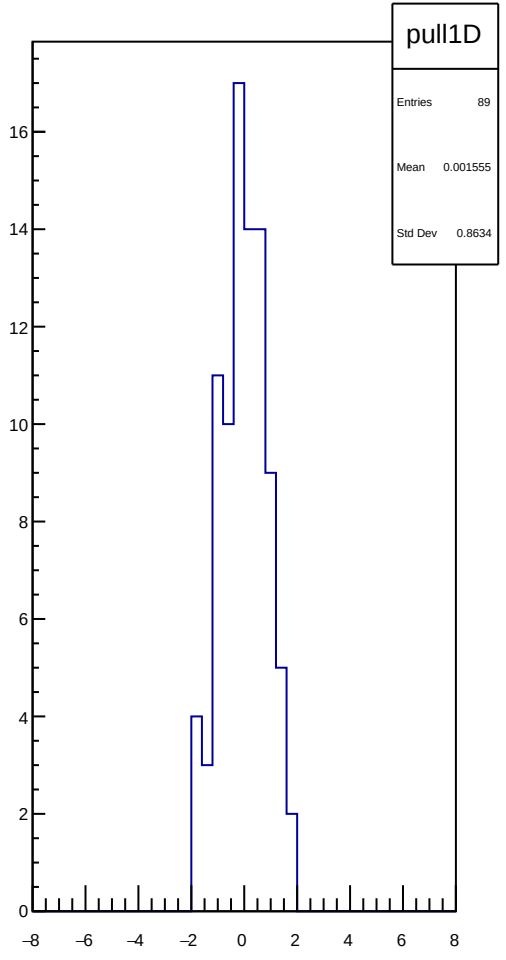

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 9681 / 88
p0 6952 ± 5.369
8500
8000
7500
7000
6500
6000

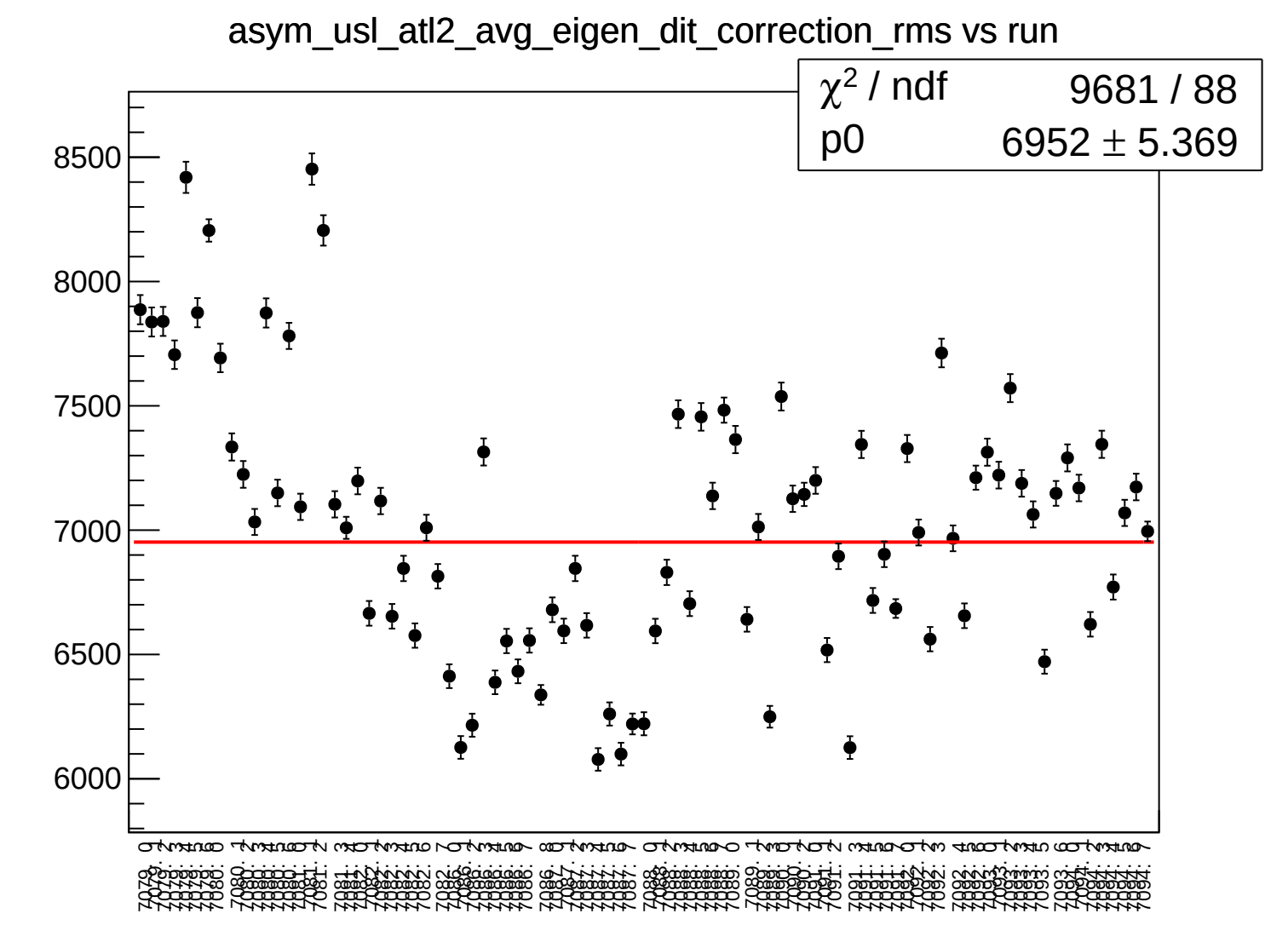

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 101 / 88
p0 1220 ± 1778
pull
Entries 89
Mean 89.29
Std Dev 0

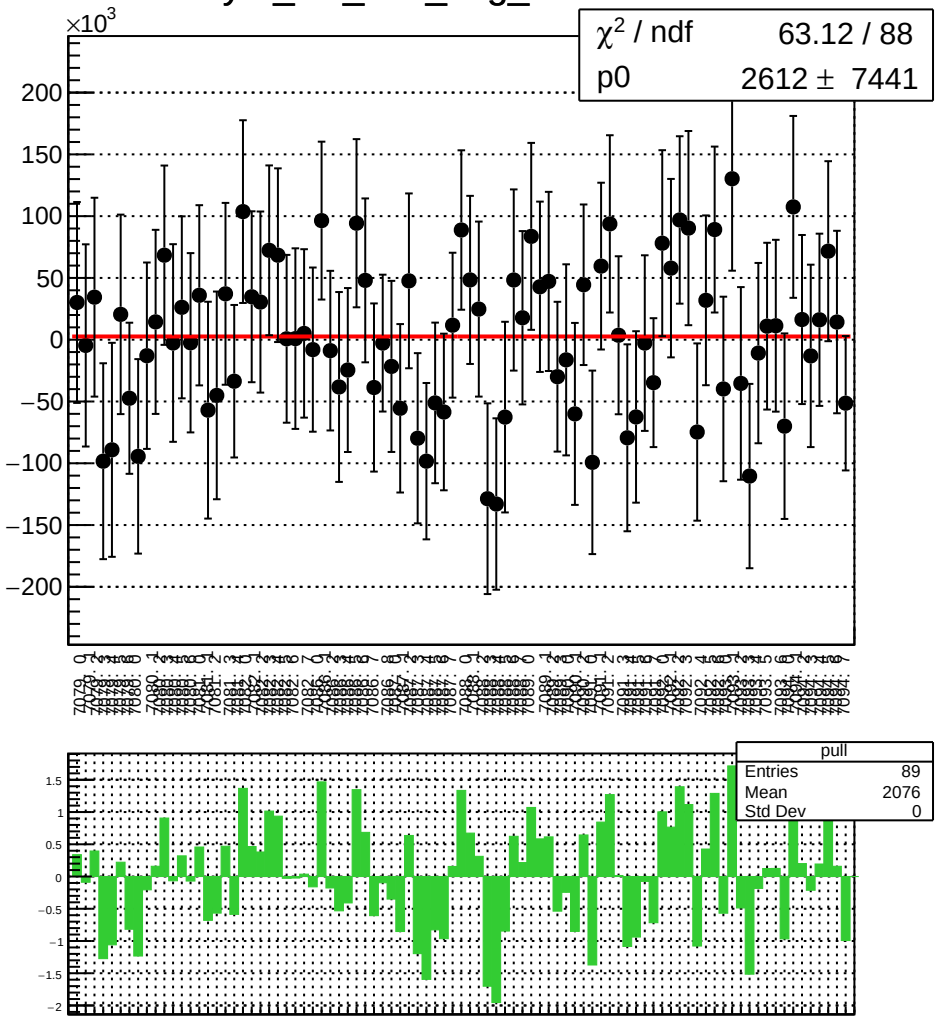

pull1D
Entries 89
Mean −0.01547
Std Dev 1.065

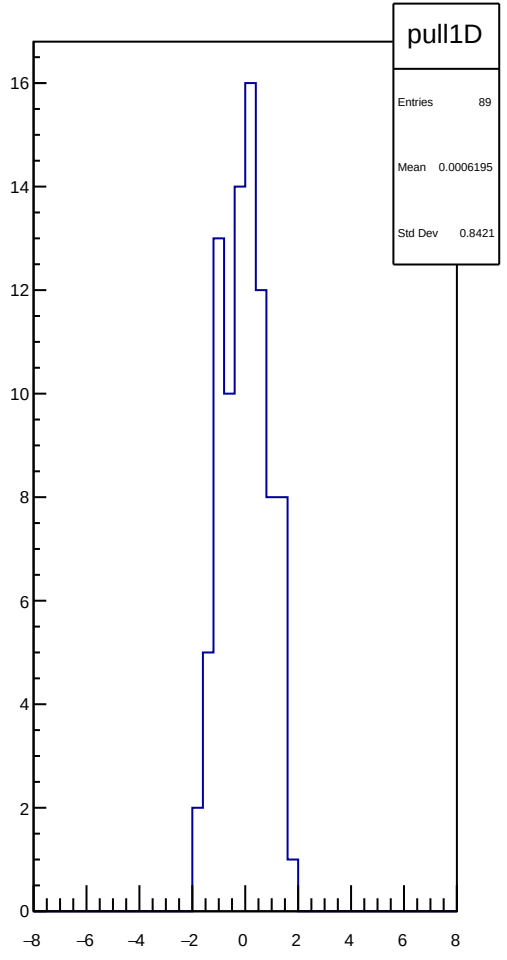

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 208.4 / 88
p0 1633 ± 1.258
1720
1700
1680
1660
1640
1620
1600
1580

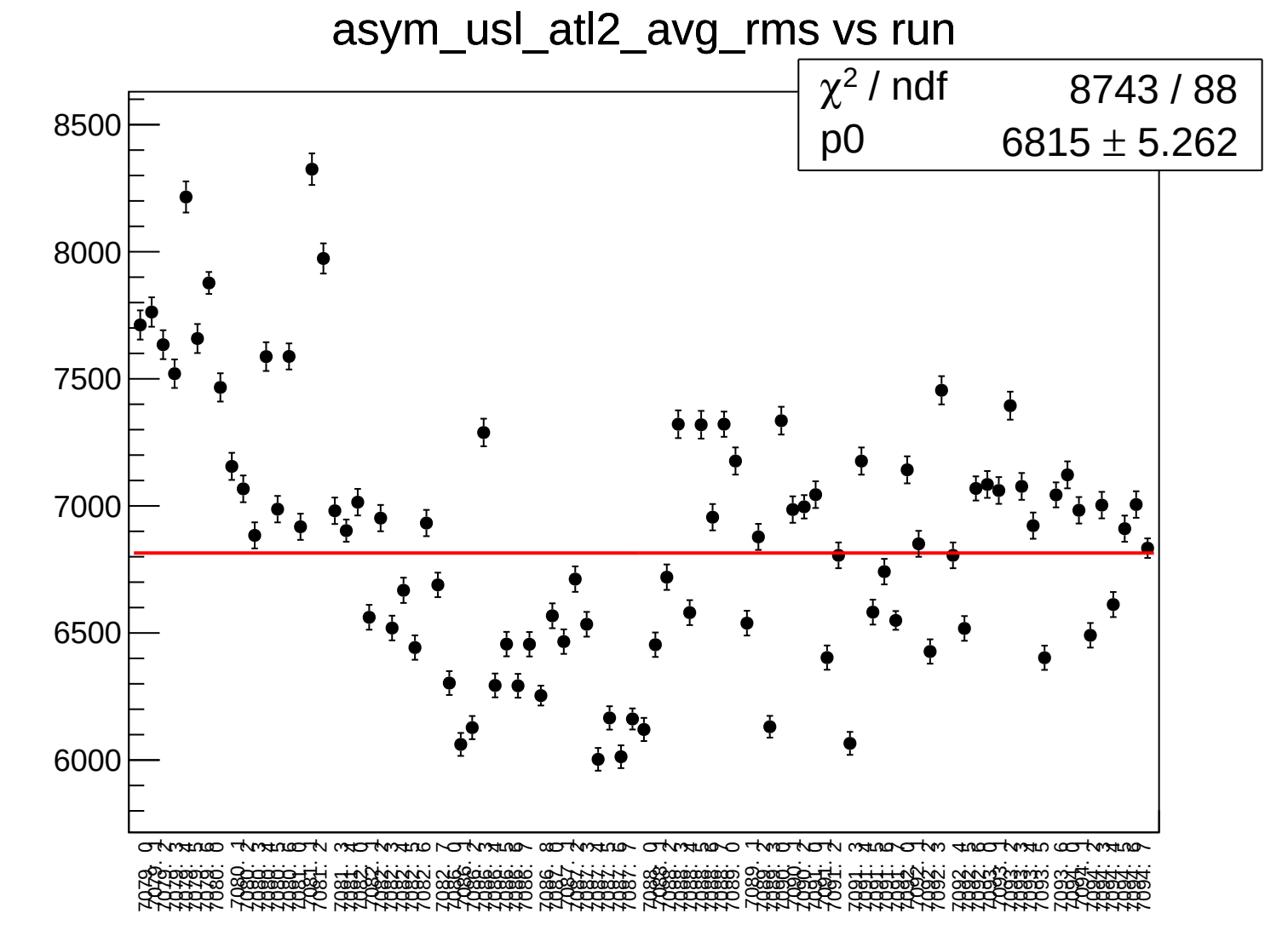

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.34 / 88
p0 −2263 ± 7593
200
100
0
−100
−200
pull
Entries 89
Mean −778.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

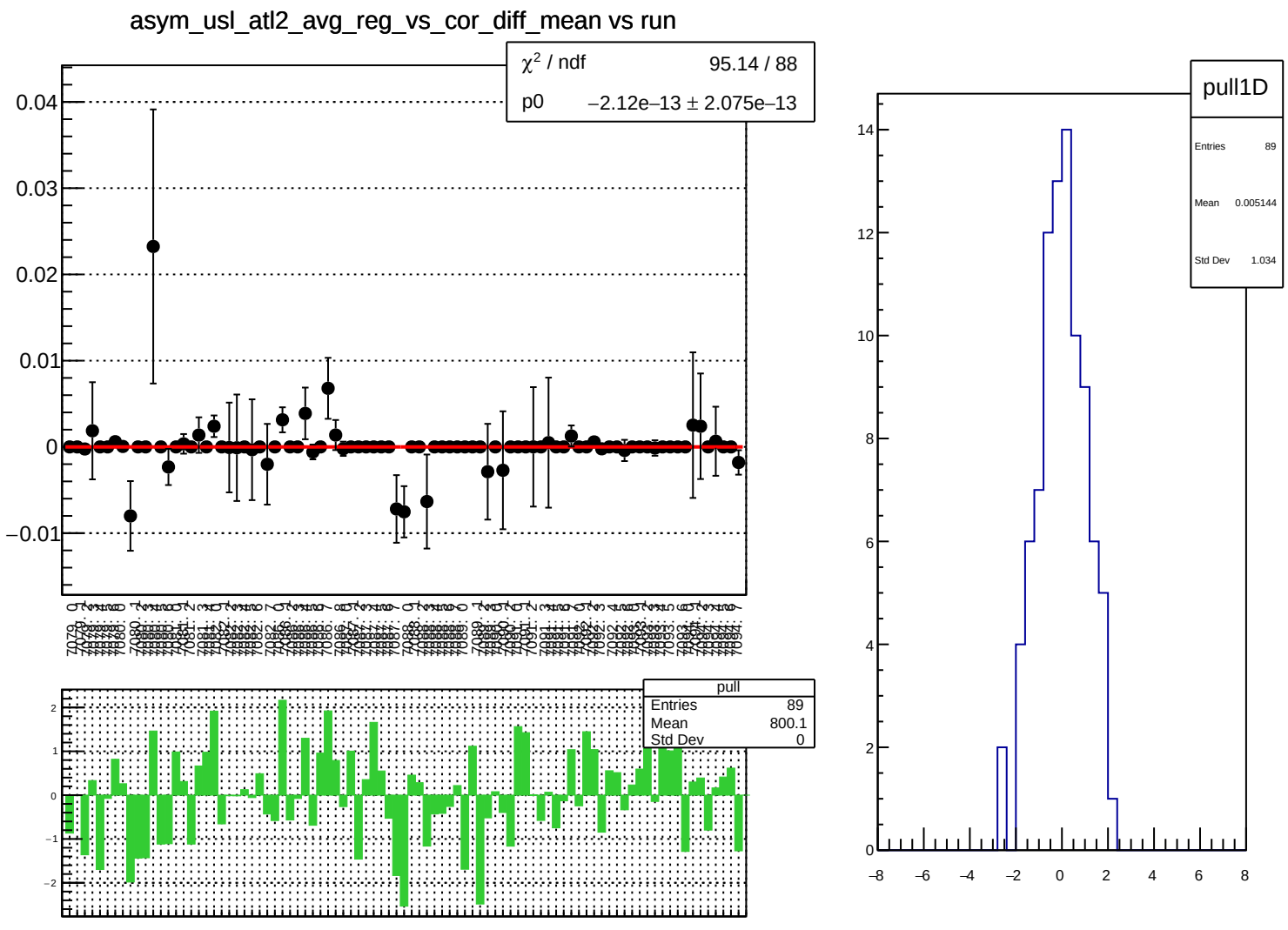

pull1D
Entries 89
Mean 0.001555
Std Dev 0.8634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

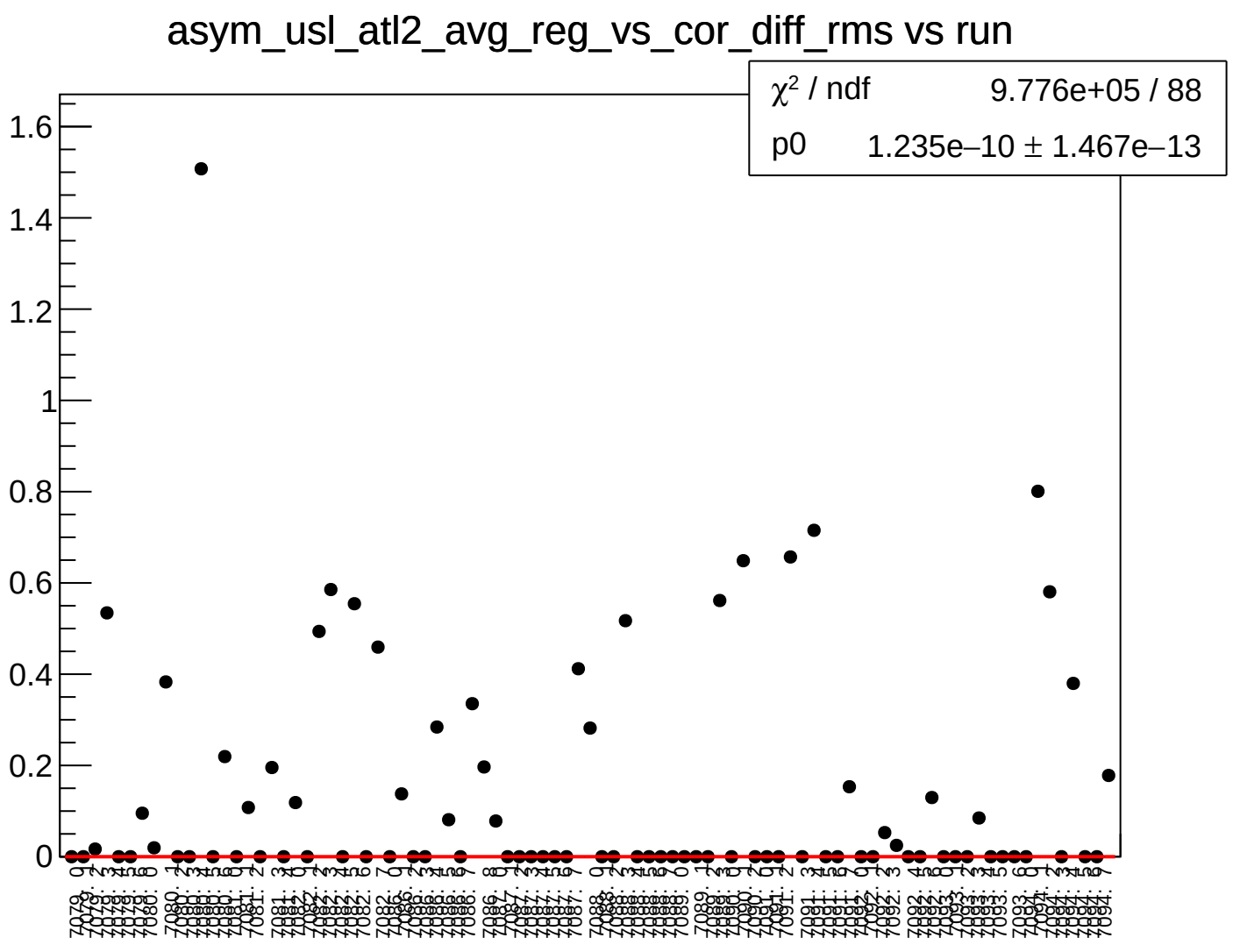

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 9681 / 88
p0 6952 ± 5.369
8500
8000
7500
7000
6500
6000

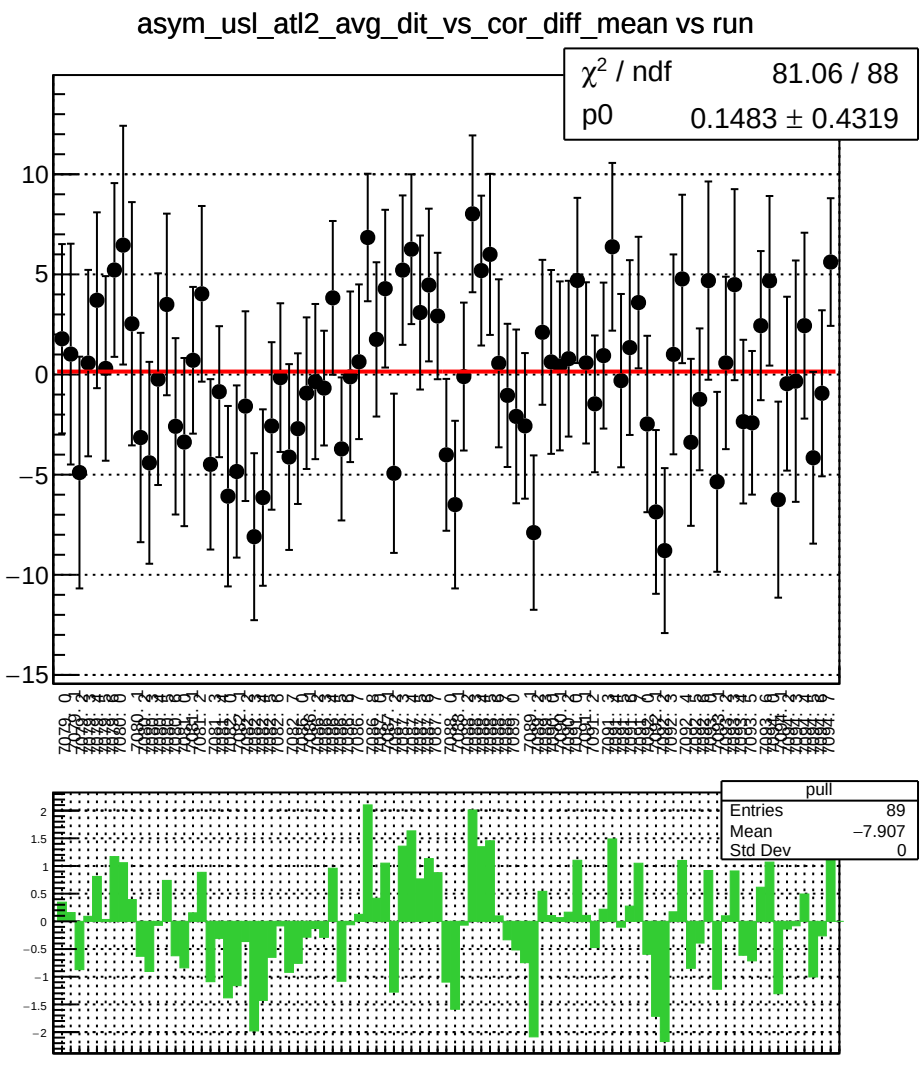

asym_usl_atl2_avg_mean vs run
χ² / ndf 63.12 / 88
p0 2612 ± 7441
×10³
pull
Entries 89
Mean 2076
Std Dev 0

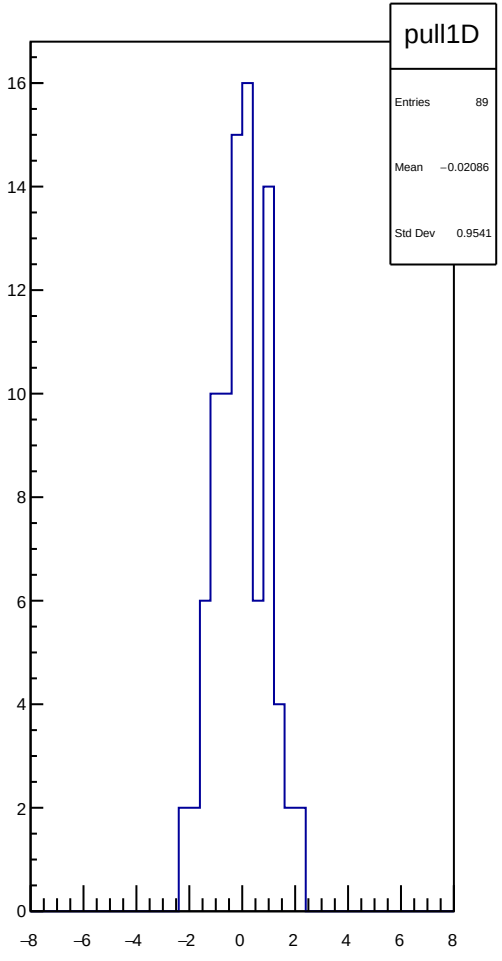

pull1D
Entries 89
Mean 0.0006195
Std Dev 0.8421

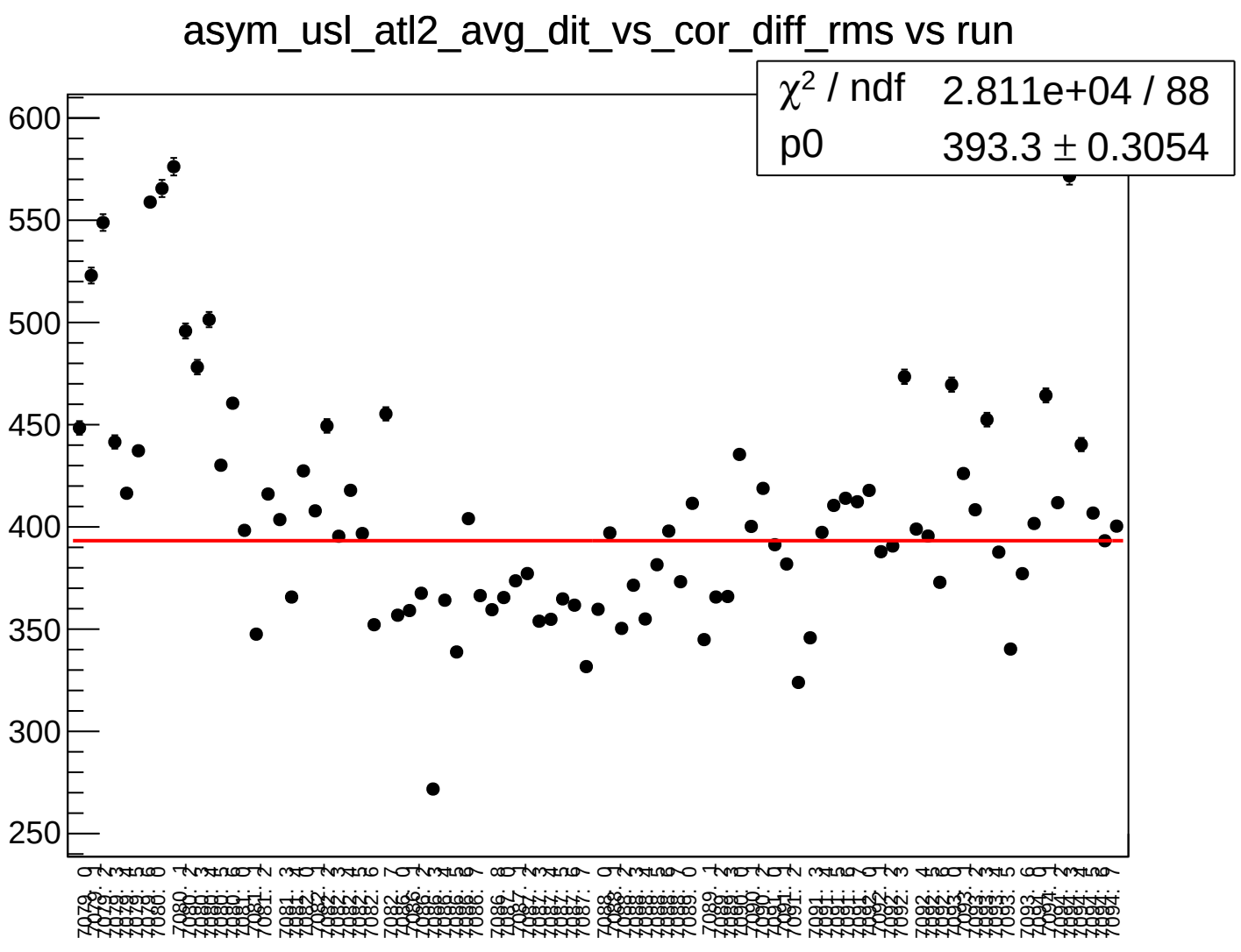

asym_usl_atl2_avg_rms vs run
χ² / ndf 8743 / 88
p0 6815 ± 5.262
8500
8000
7500
7000
6500
6000

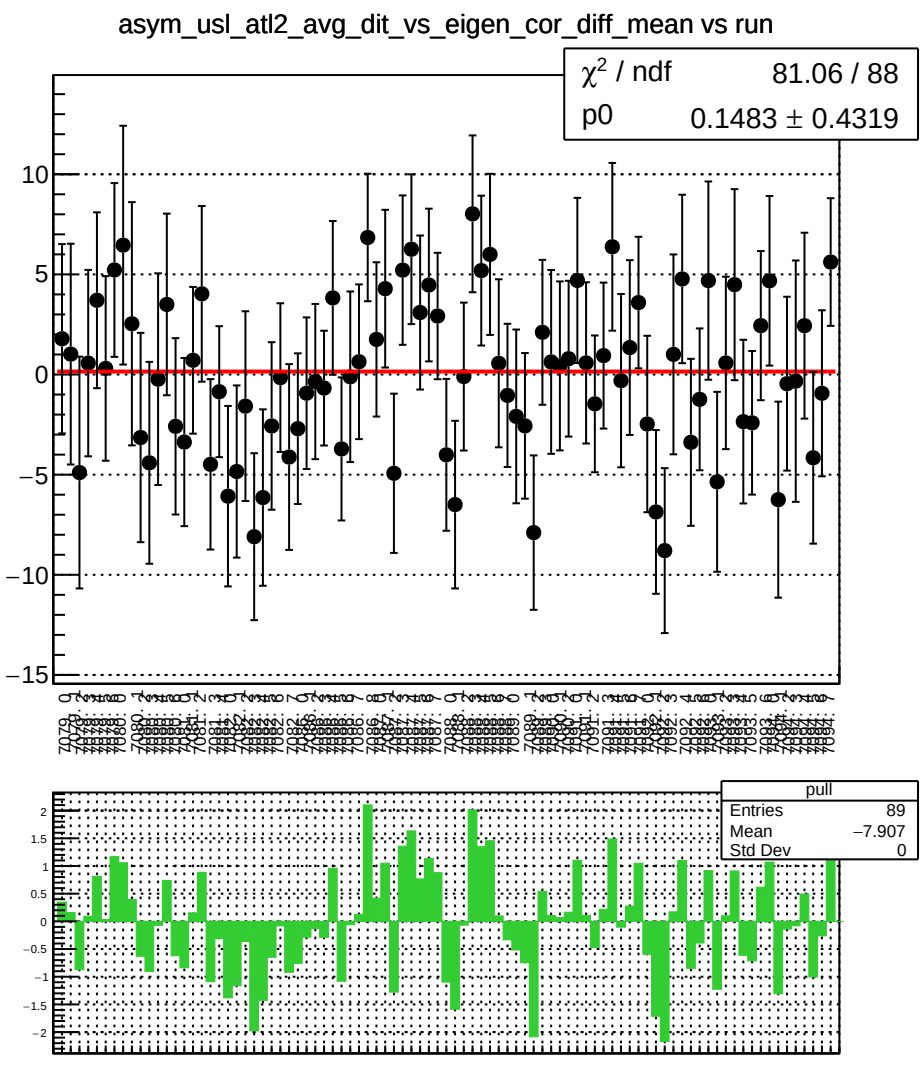

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.14 / 88
p0 −2.12e−13 ± 2.075e−13
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 89
Mean 800.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.005144
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

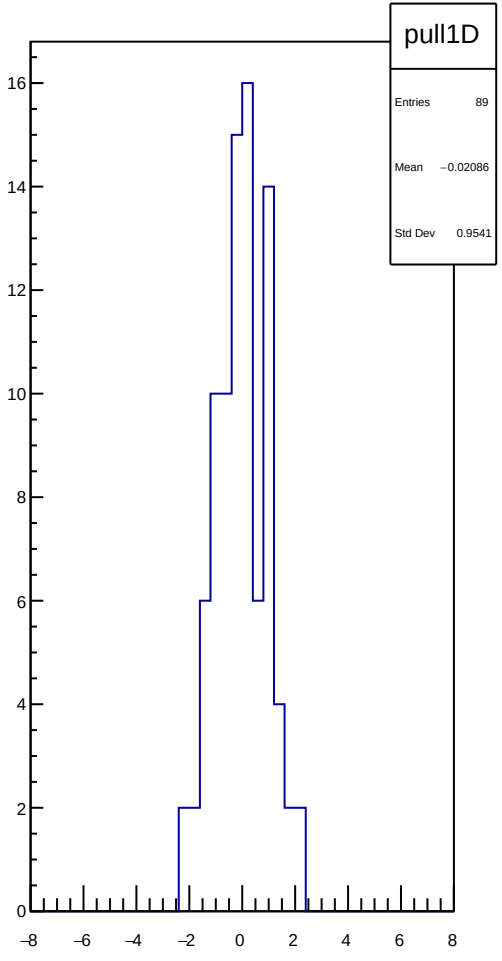

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.776e+05 / 88
p0 1.235e−10 ± 1.467e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

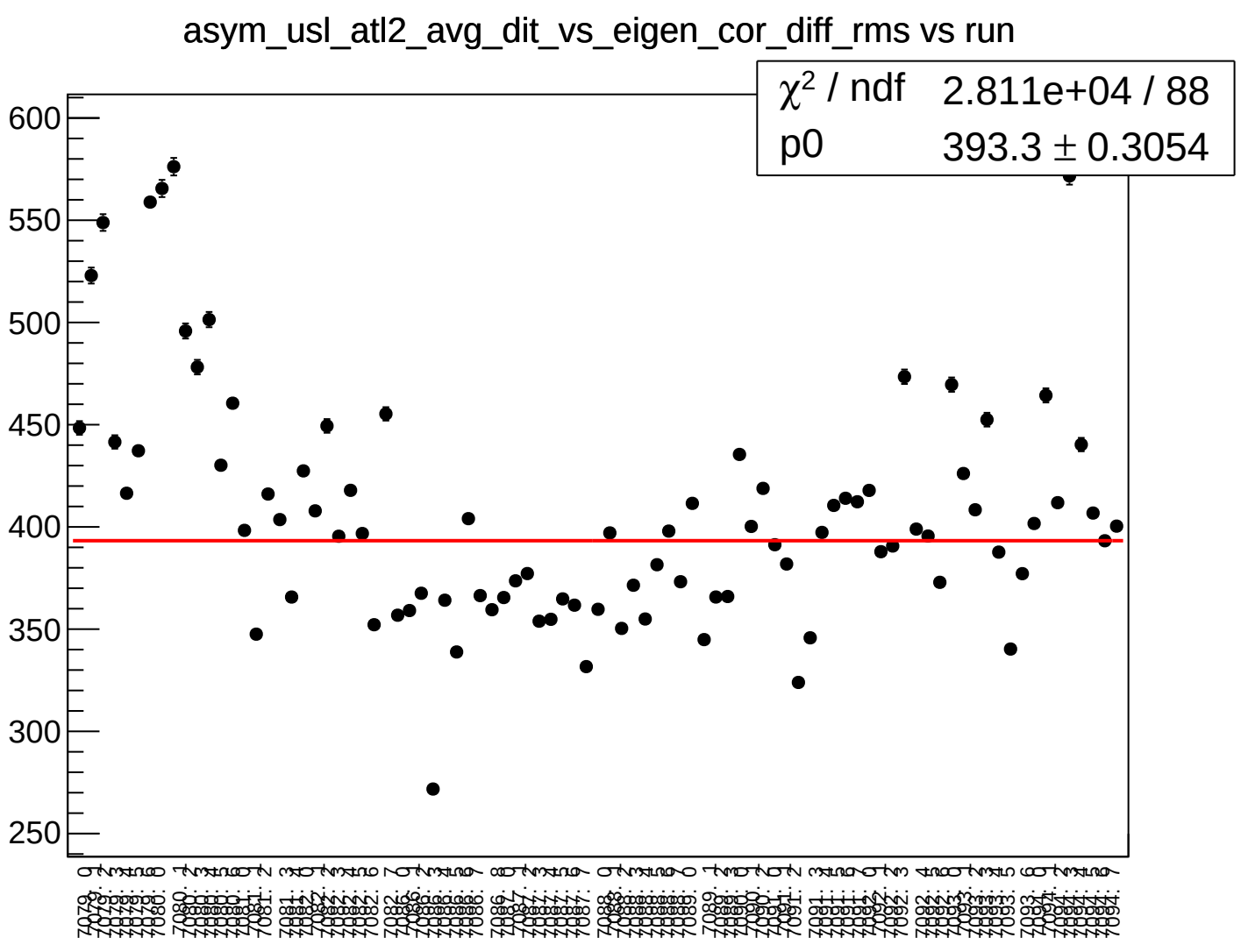

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.06 / 88
p0 0.1483 ± 0.4319
pull
Entries 89
Mean −7.907
Std Dev 0

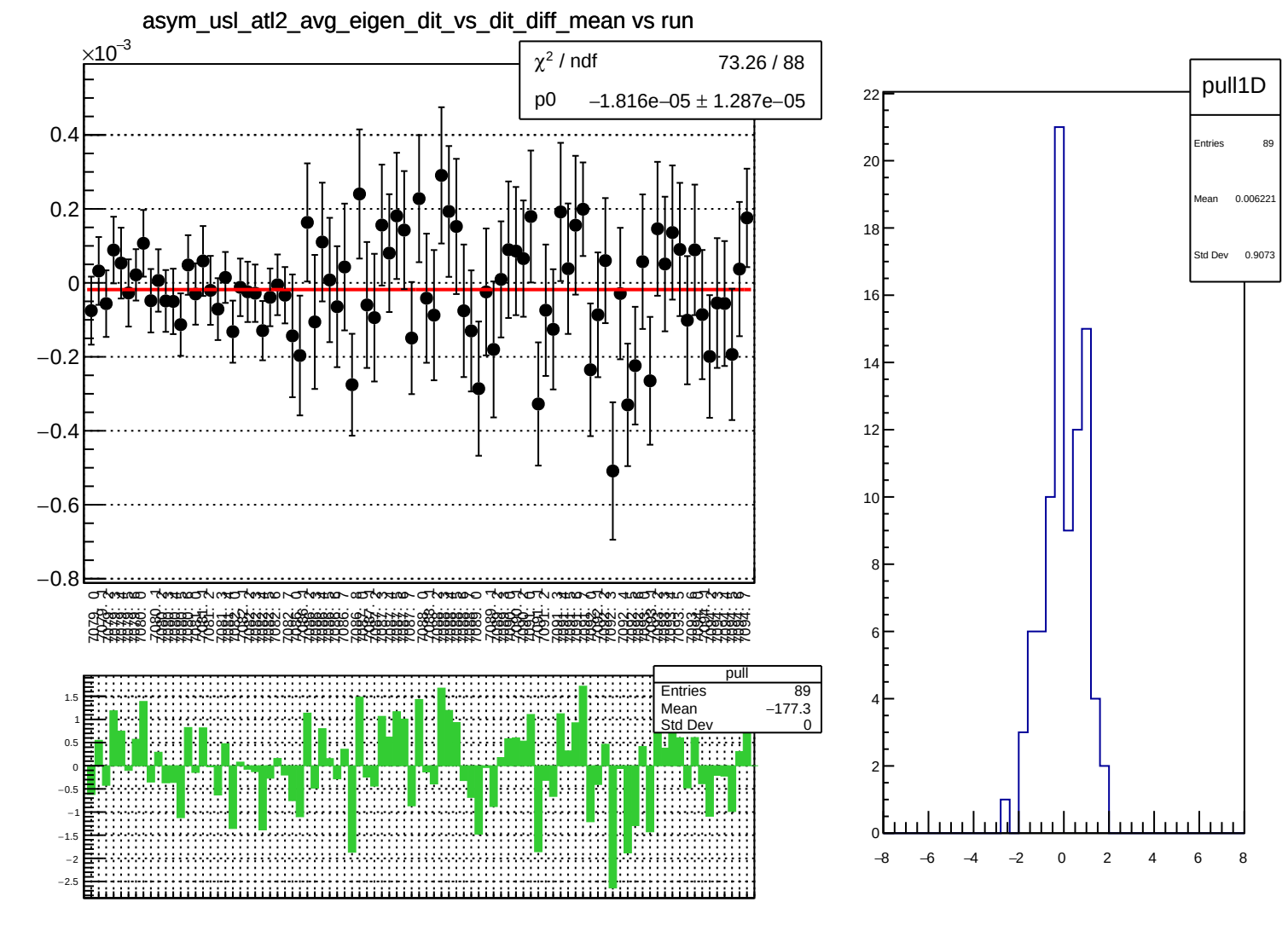

pull1D
Entries 89
Mean −0.02086
Std Dev 0.9541

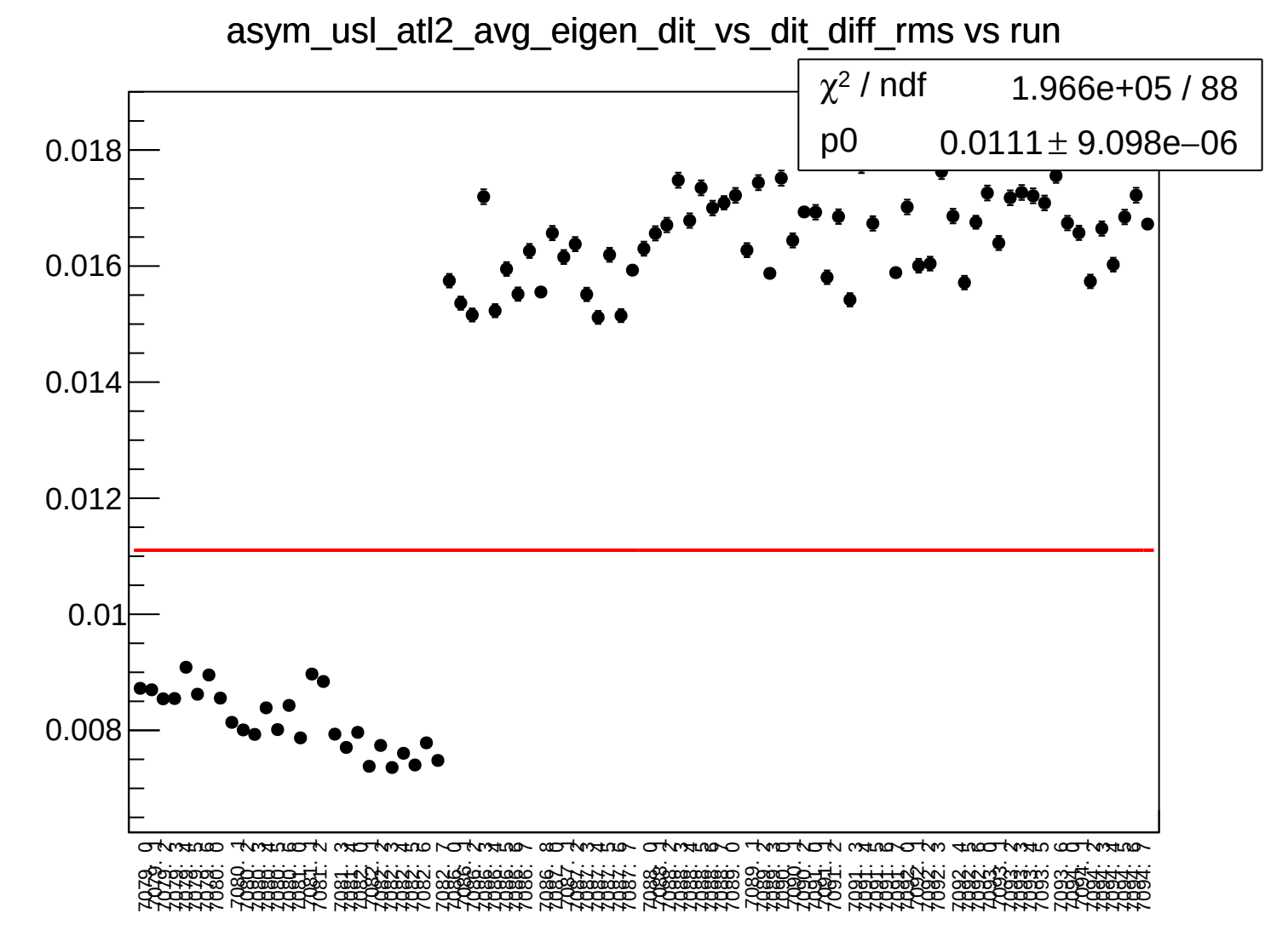

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.811e+04 / 88
p0 393.3 ± 0.3054
600
550
500
450
400
350
300
250

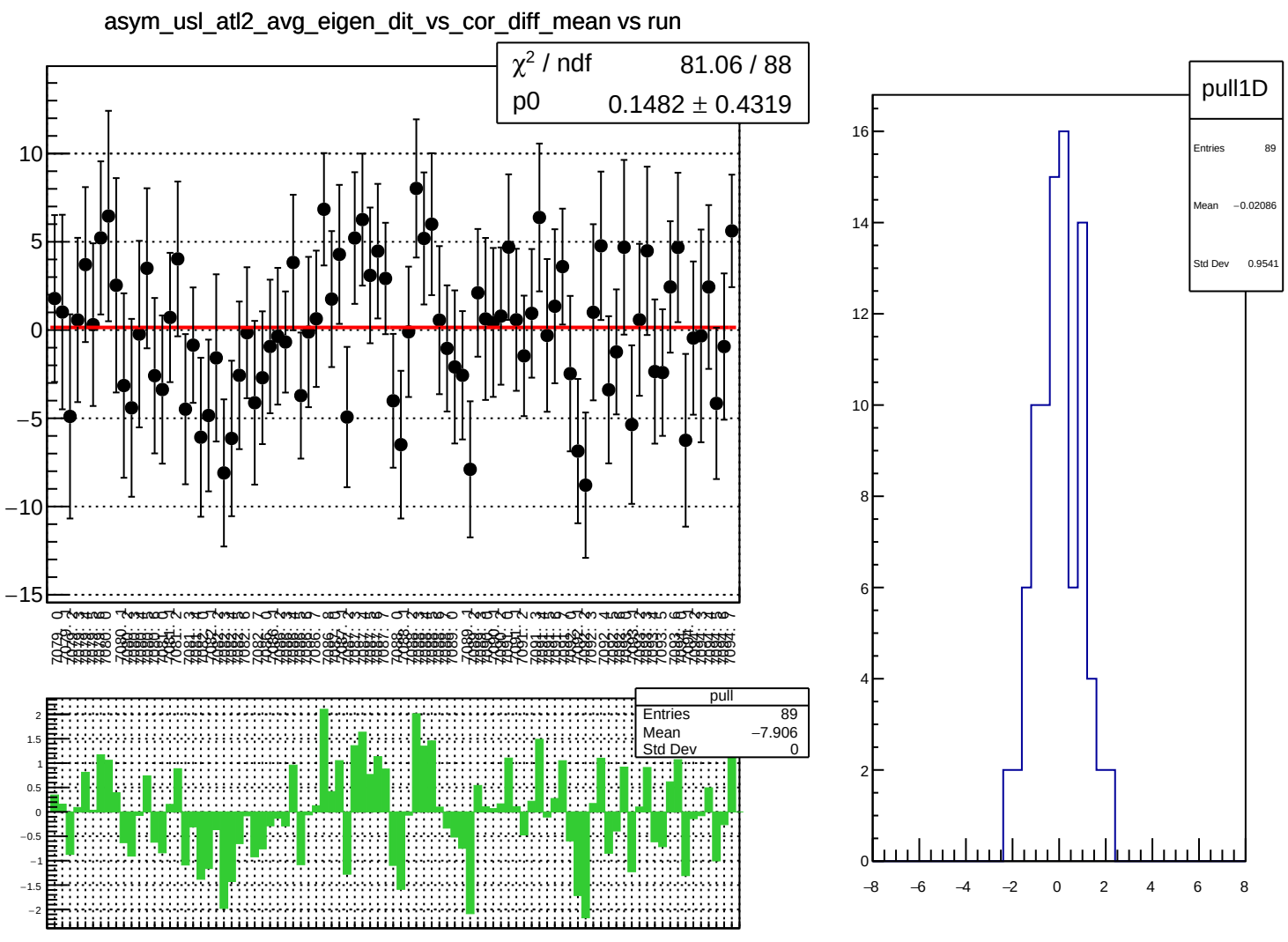

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.06 / 88
p0 0.1483 ± 0.4319
pull
Entries 89
Mean −7.907
Std Dev 0

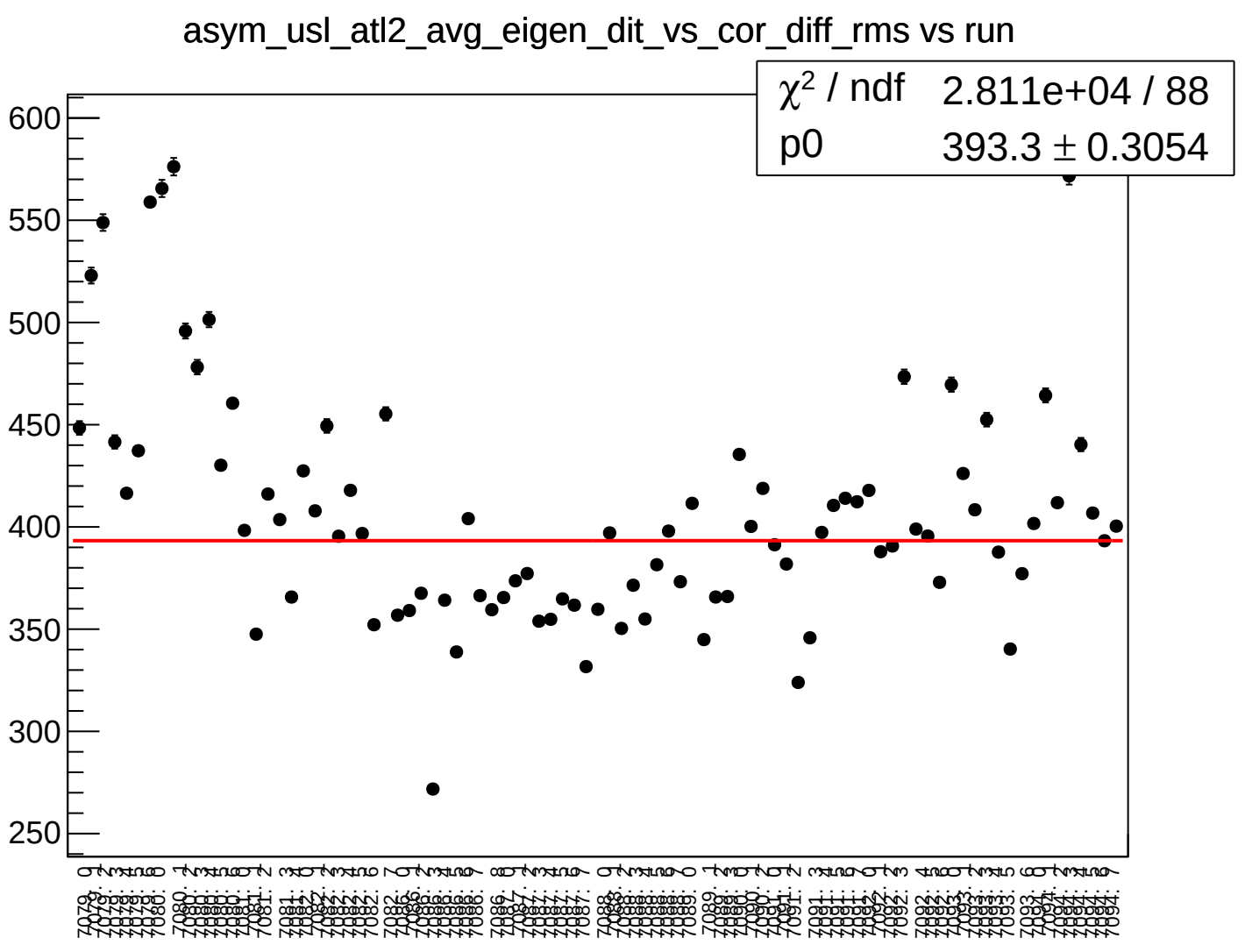

pull1D
Entries 89
Mean −0.02086
Std Dev 0.9541

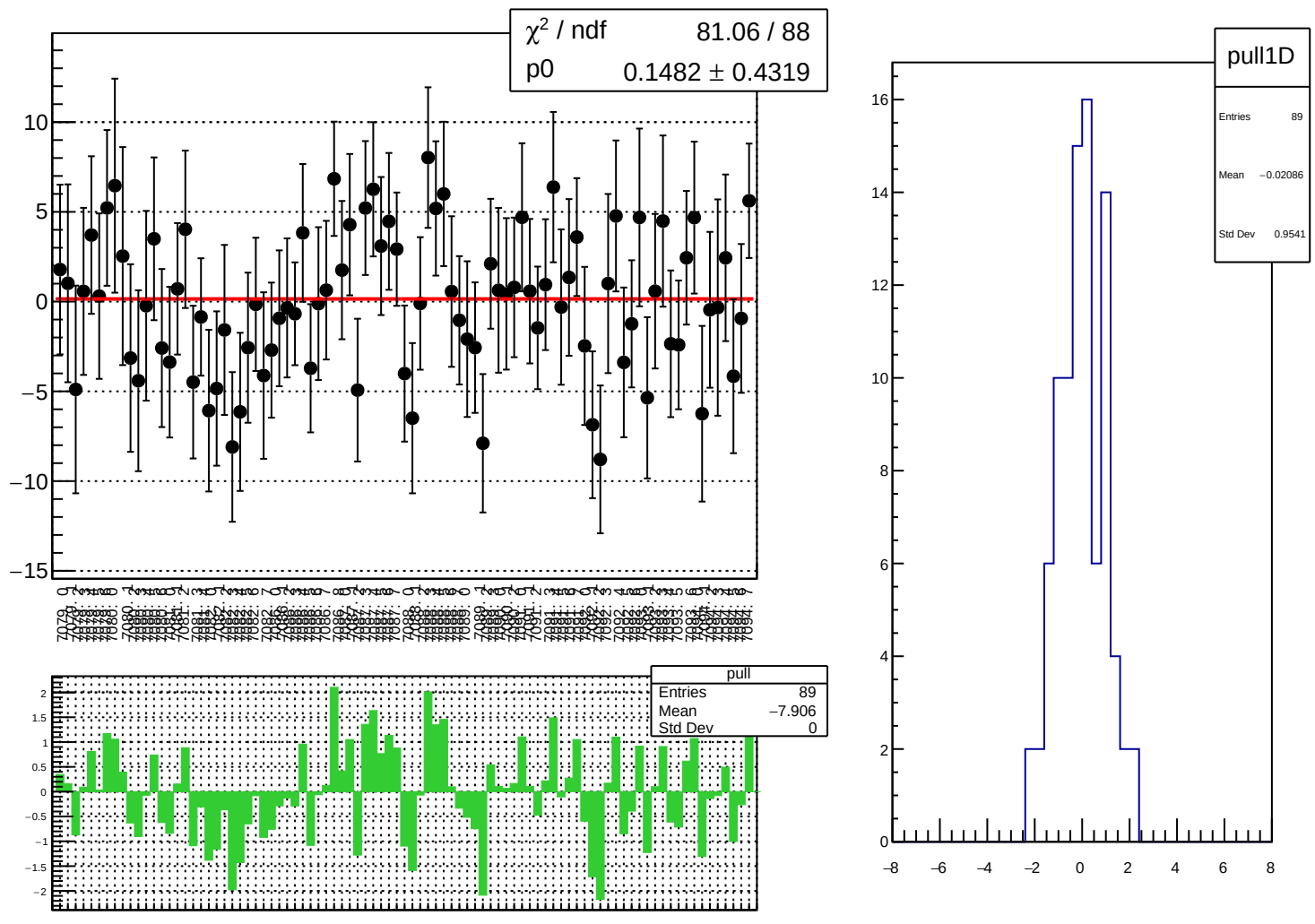

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.811e+04 / 88
p0 393.3 ± 0.3054
600
550
500
450
400
350
300
250

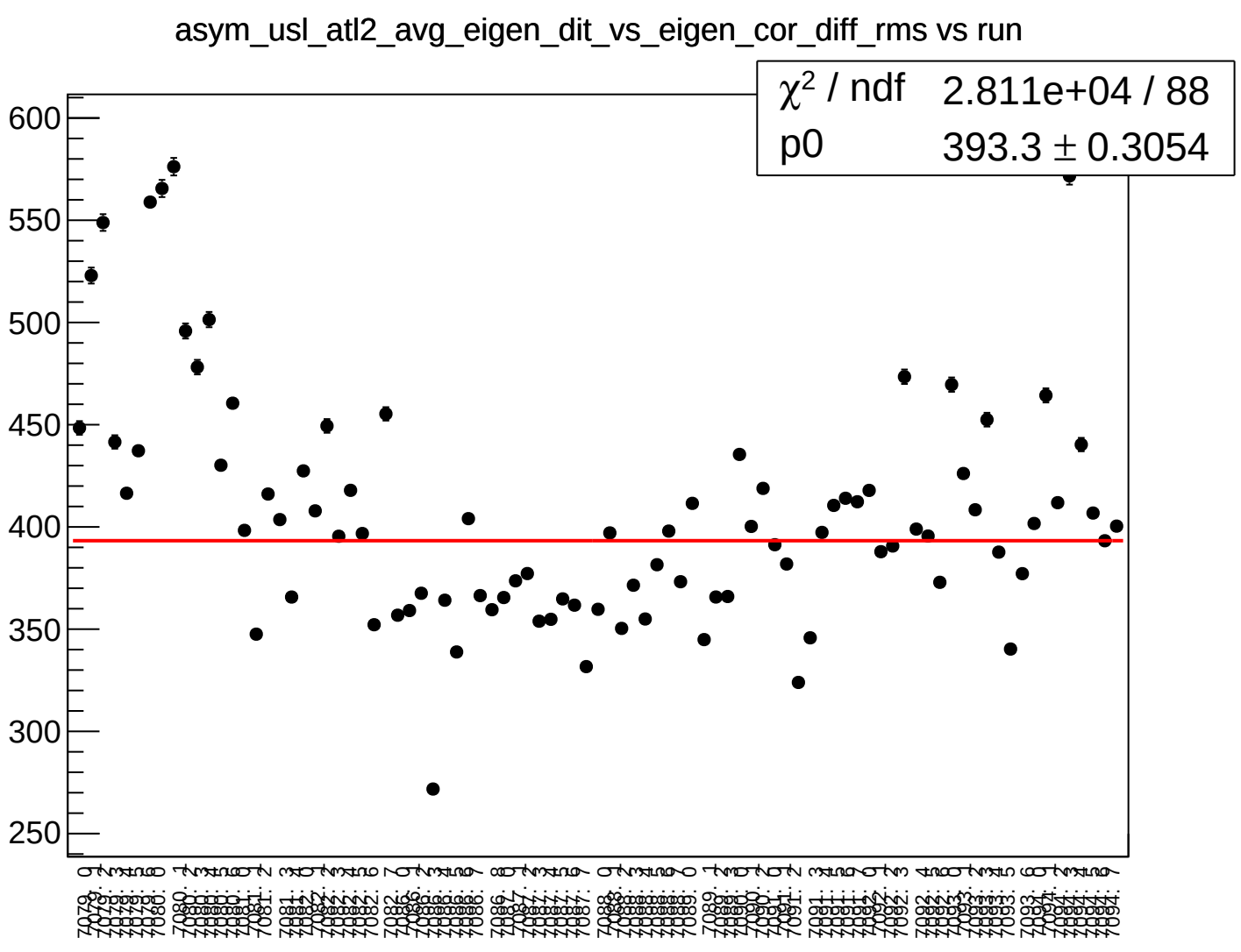

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.26 / 88
p0 −1.816e−05 ± 1.287e−05
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 89
Mean −177.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.006221
Std Dev 0.9073
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

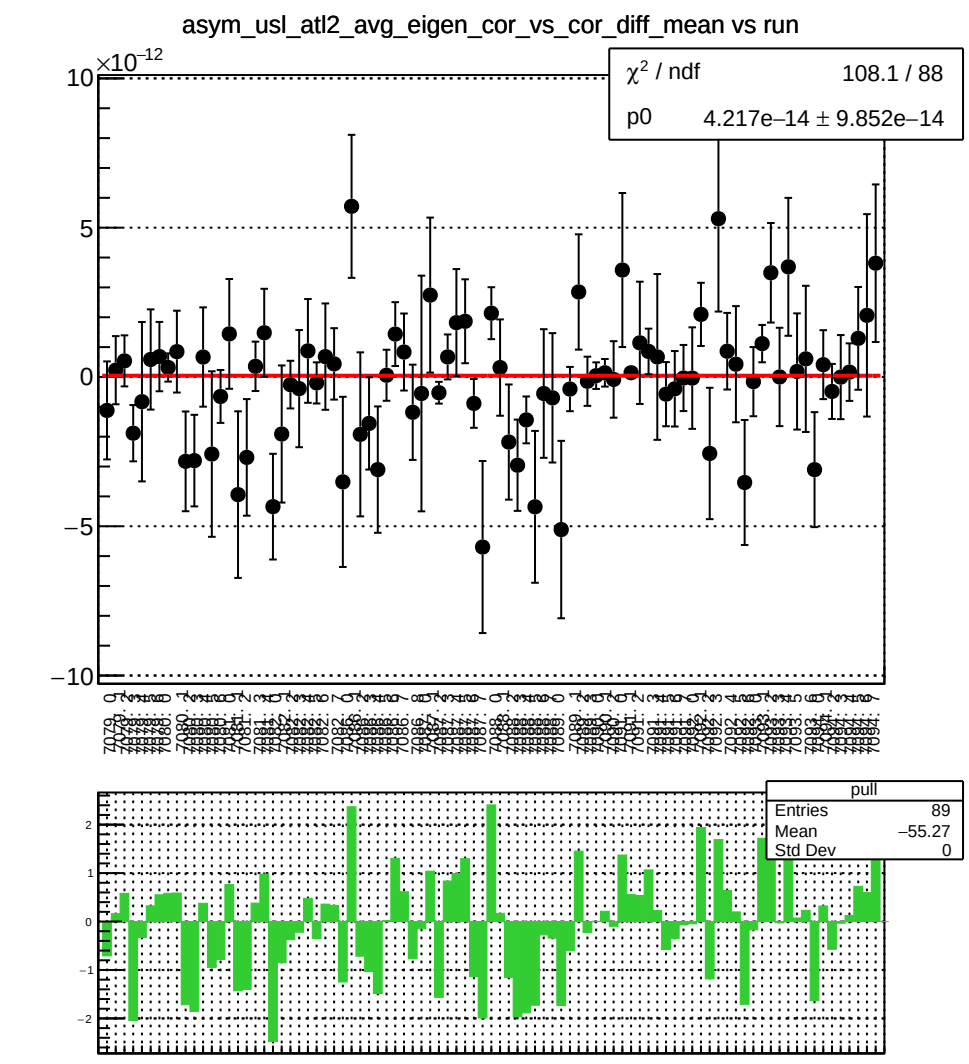

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.966e+05 / 88
p0 0.0111 ± 9.098e−06
0.018
0.016
0.014
0.012
0.01
0.008

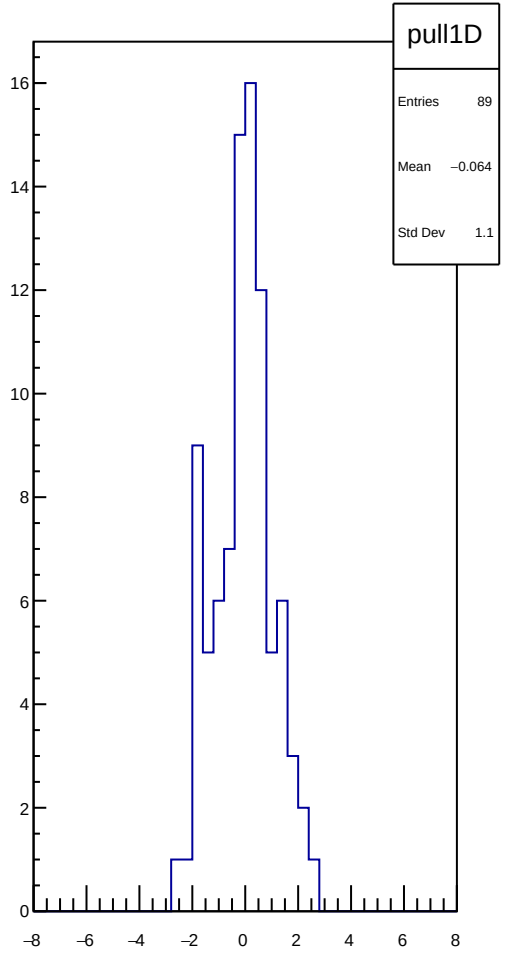

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.06 / 88
p0 0.1482 ± 0.4319
pull
Entries 89
Mean −7.906
Std Dev 0
pull1D
Entries 89
Mean −0.02086
Std Dev 0.9541

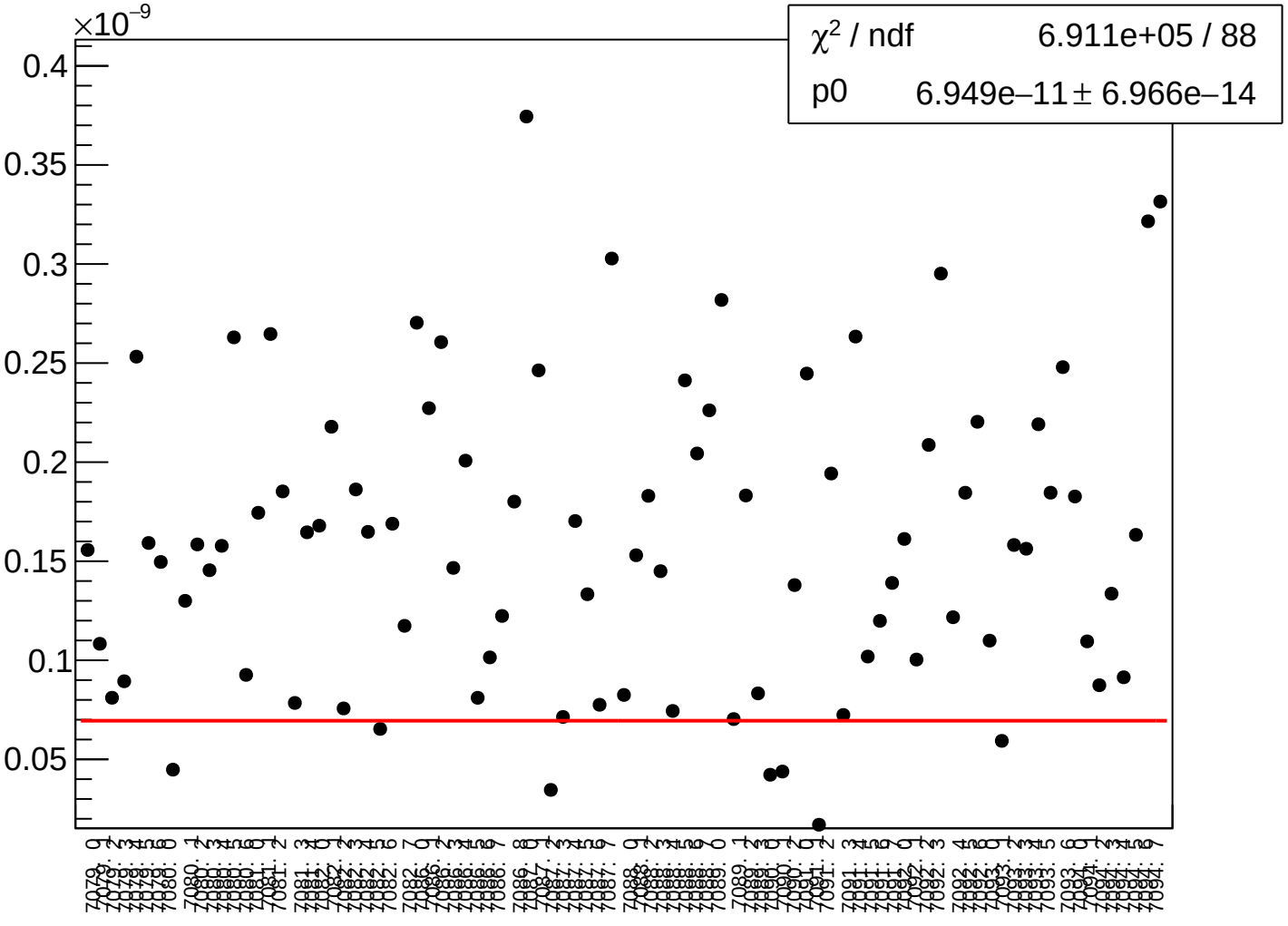

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.811e+04 / 88
p0 393.3 ± 0.3054
600
550
500
450
400
350
300
250

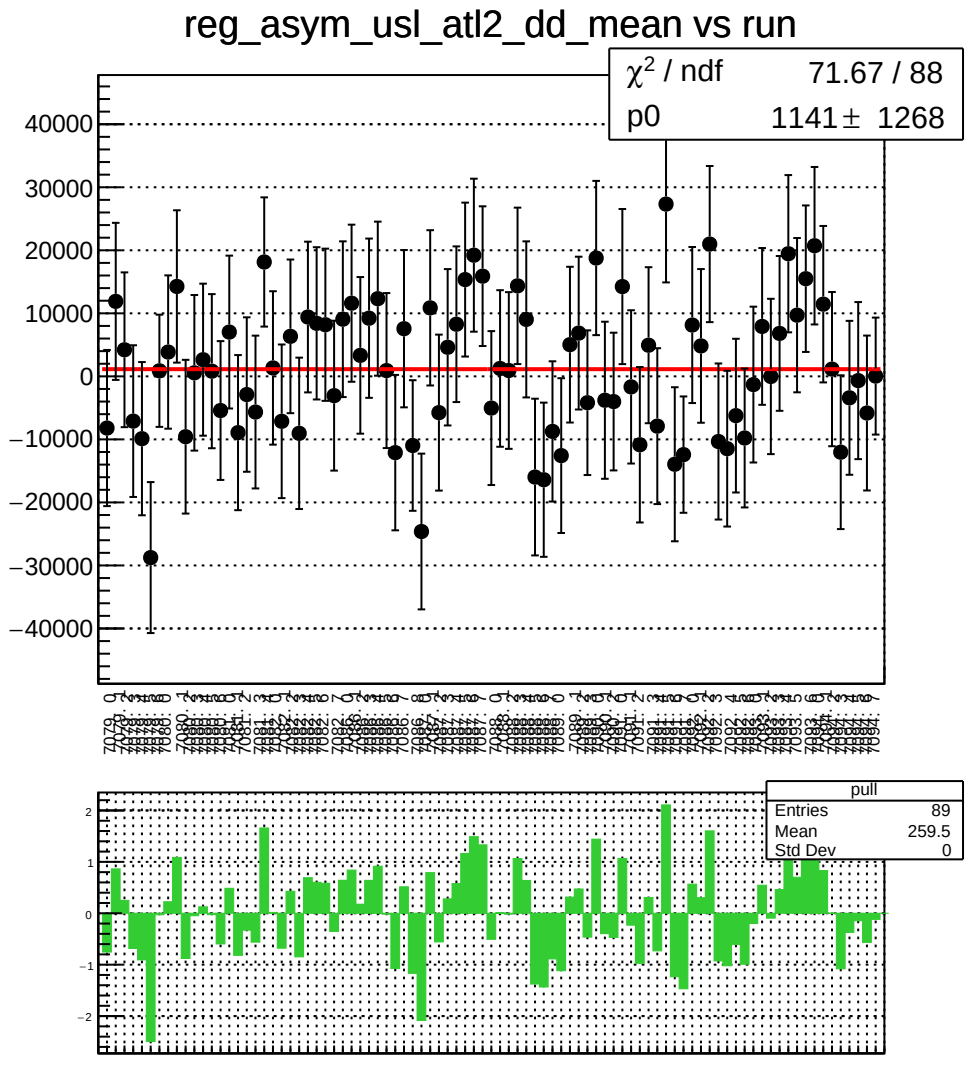

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.06 / 88
p0 0.1482 ± 0.4319
pull
Entries 89
Mean −7.906
Std Dev 0
pull1D
Entries 89
Mean −0.02086
Std Dev 0.9541

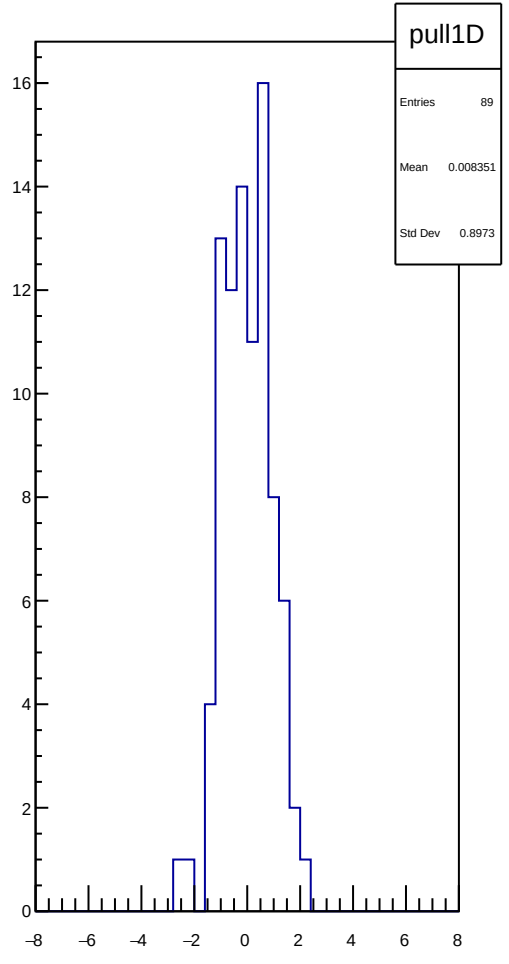

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.811e+04 / 88
p0 393.3 ± 0.3054
600
550
500
450
400
350
300
250

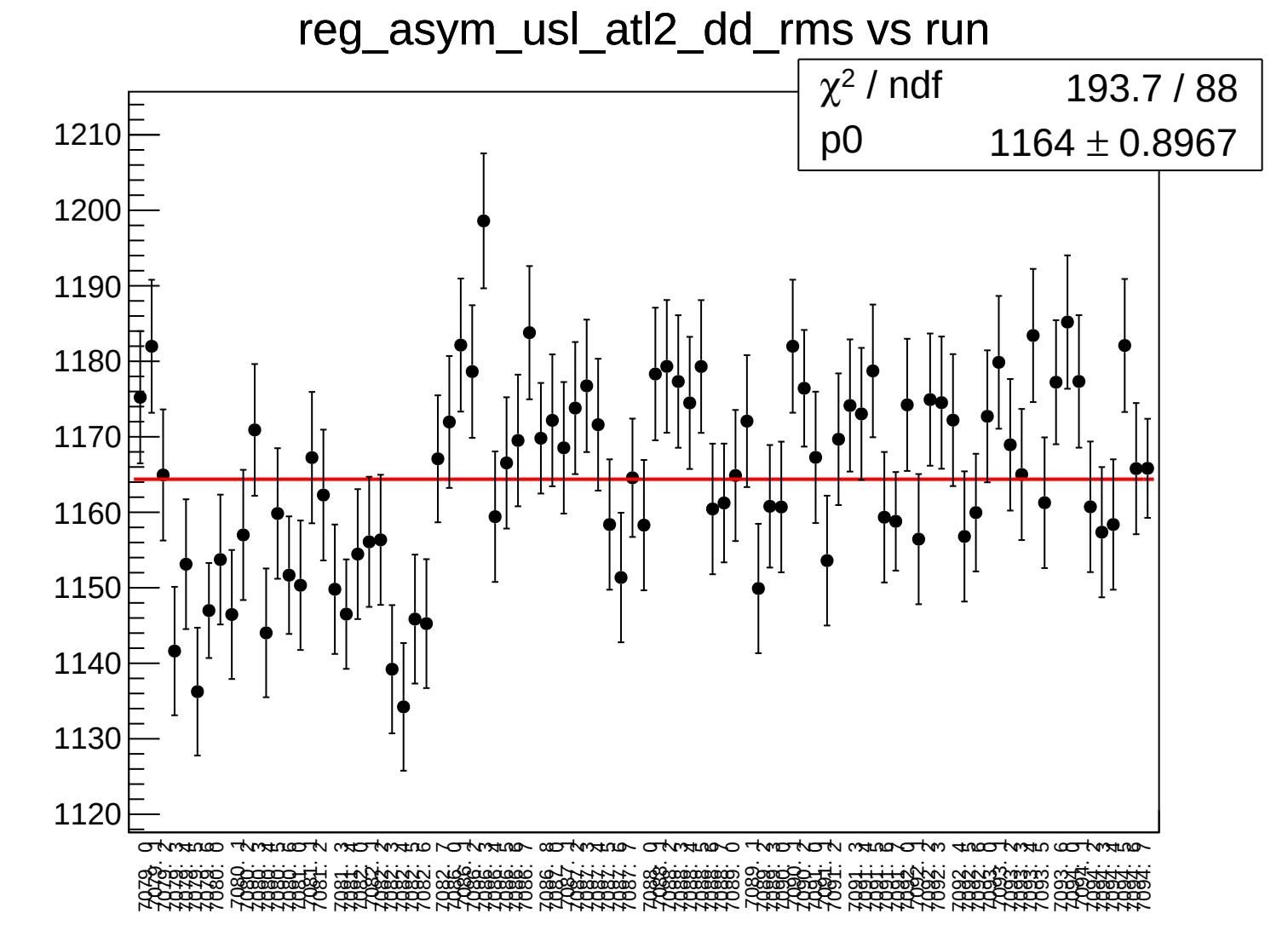

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.1 / 88
p0 4.217e−14 ± 9.852e−14
pull
Entries 89
Mean −55.27
Std Dev 0

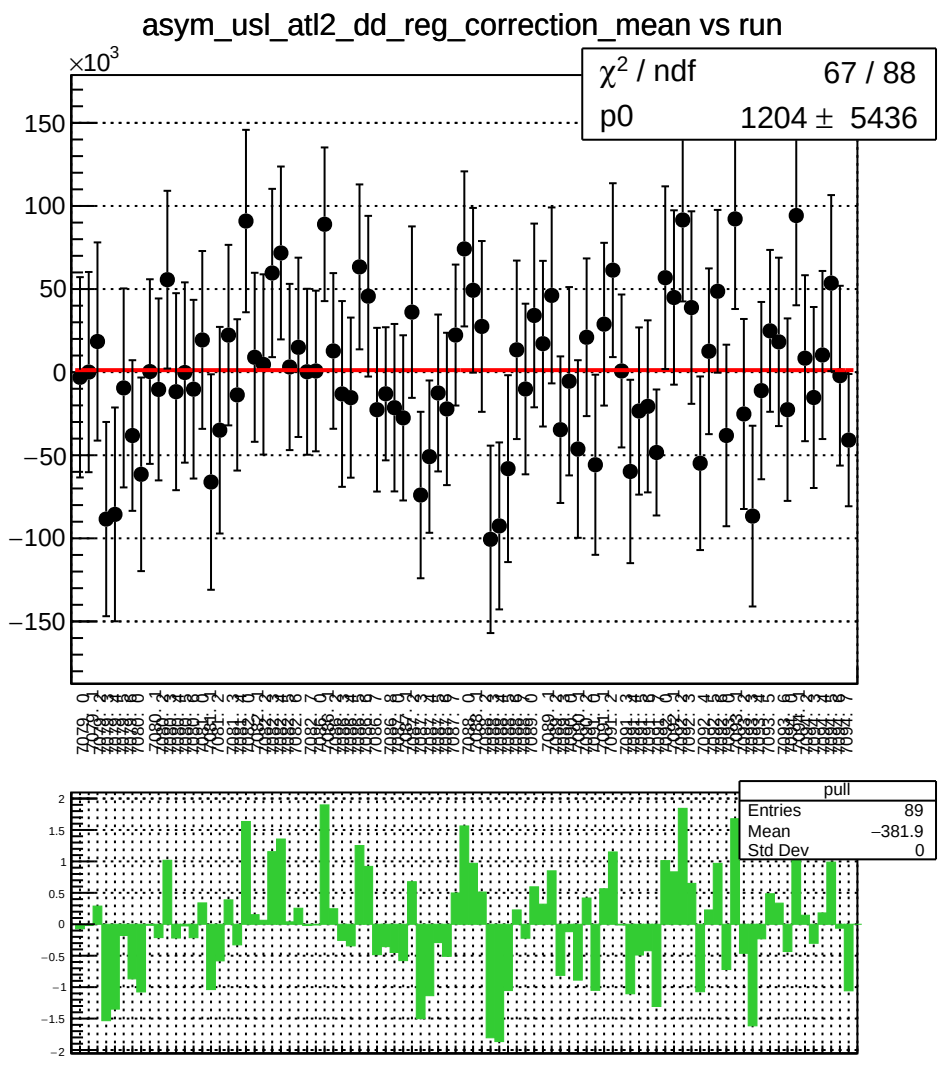

pull1D
Entries 89
Mean −0.064
Std Dev 1.1

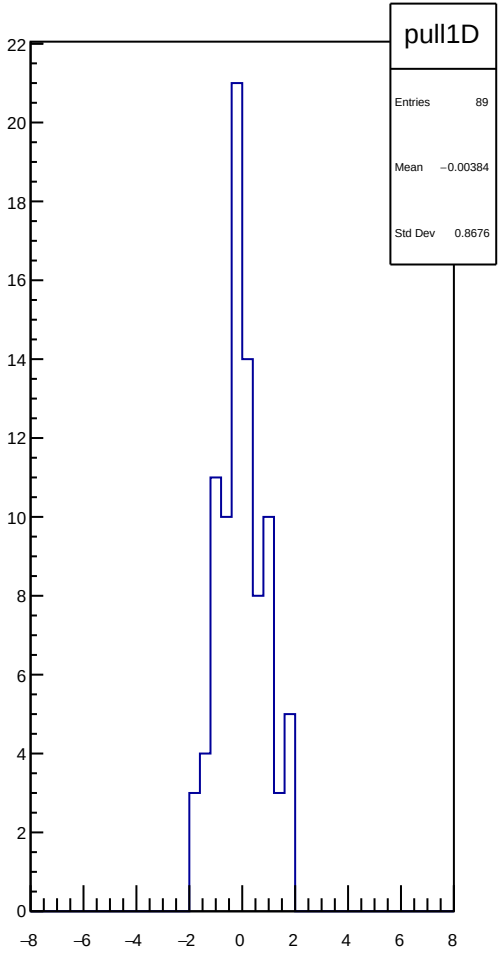

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.911e+05 / 88
p0 6.949e−11 ± 6.966e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

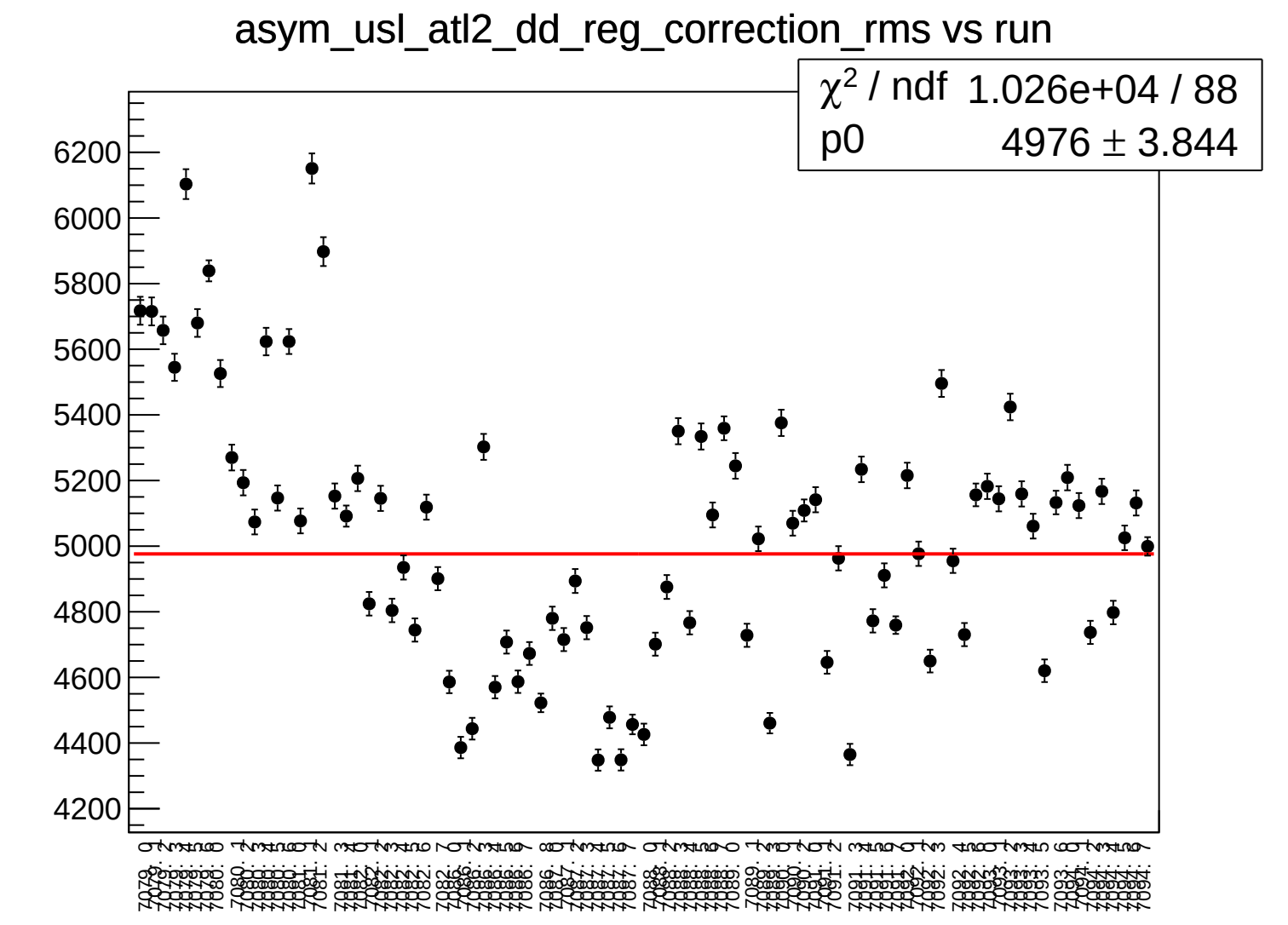

reg_asym_usl_atl2_dd_mean vs run
χ^2 / ndf 71.67 / 88
p0 1141 ± 1268
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 259.5
Std Dev 0
2
1
0
−1
−2

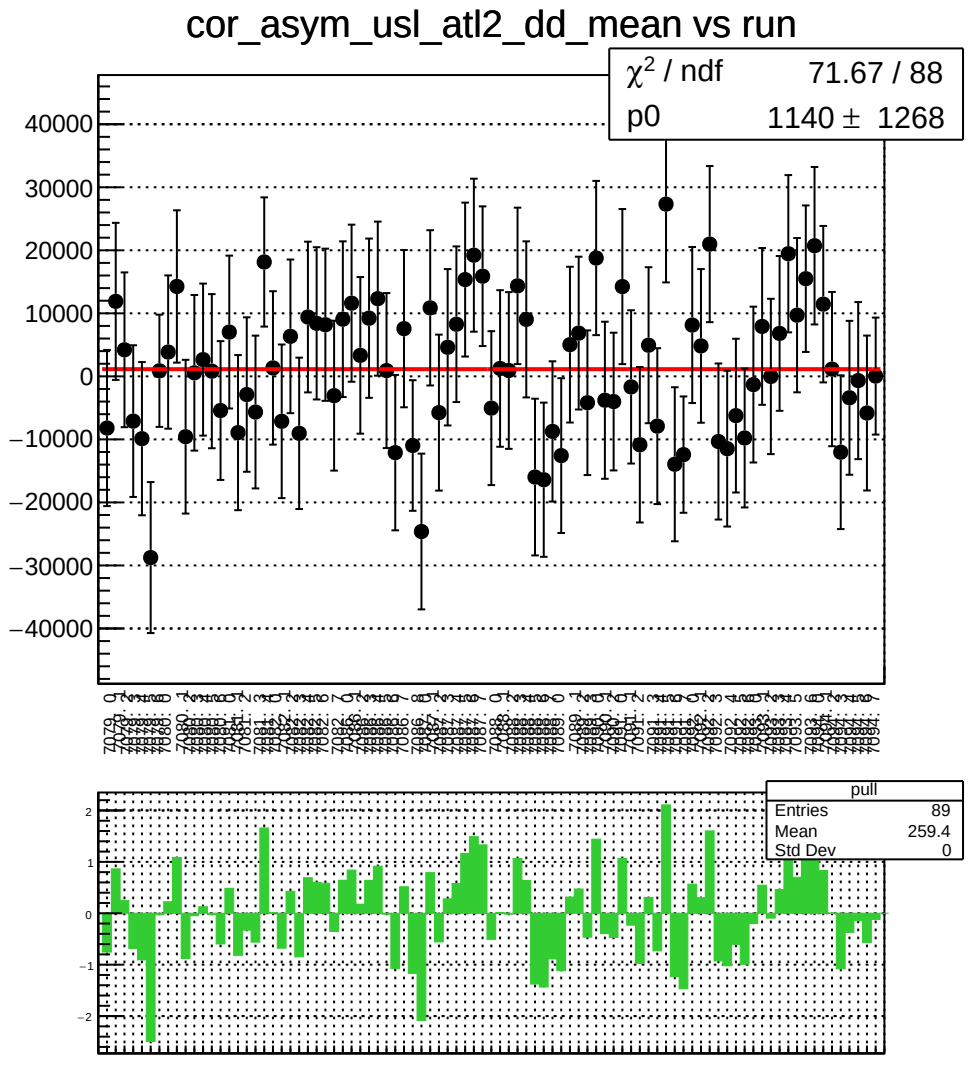

pull1D
Entries 89
Mean 0.008351
Std Dev 0.8973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

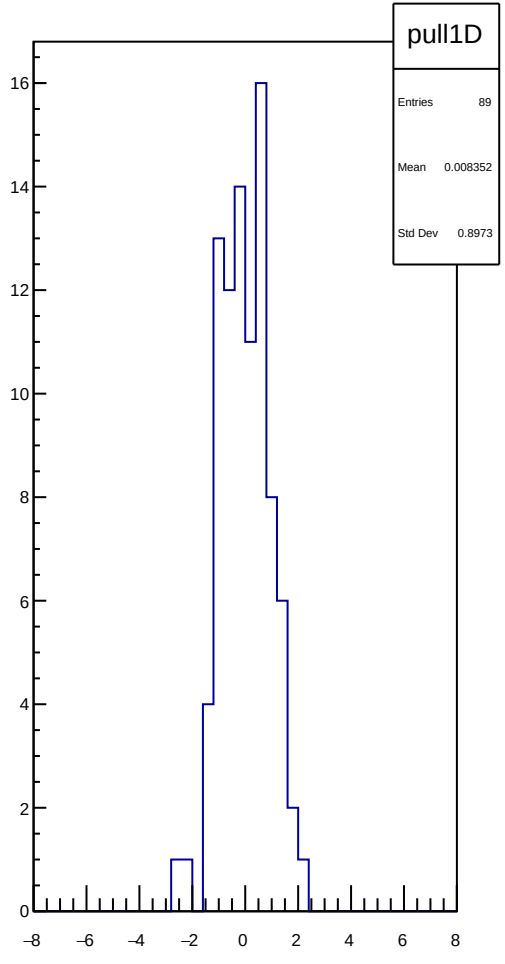

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 193.7 / 88
p0 1164 ± 0.8967
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120

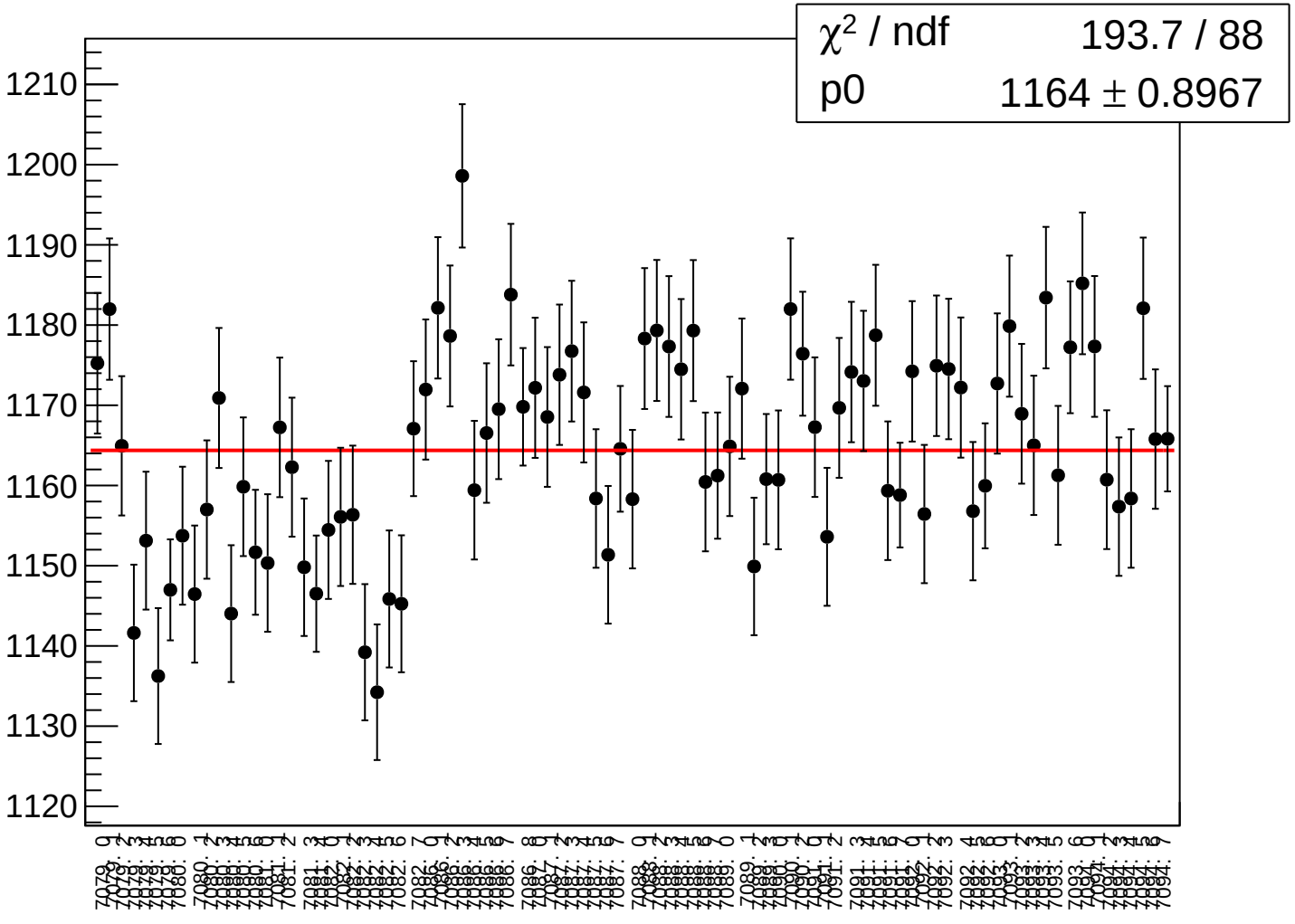

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 67 / 88
p0 1204 ± 5436
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −381.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

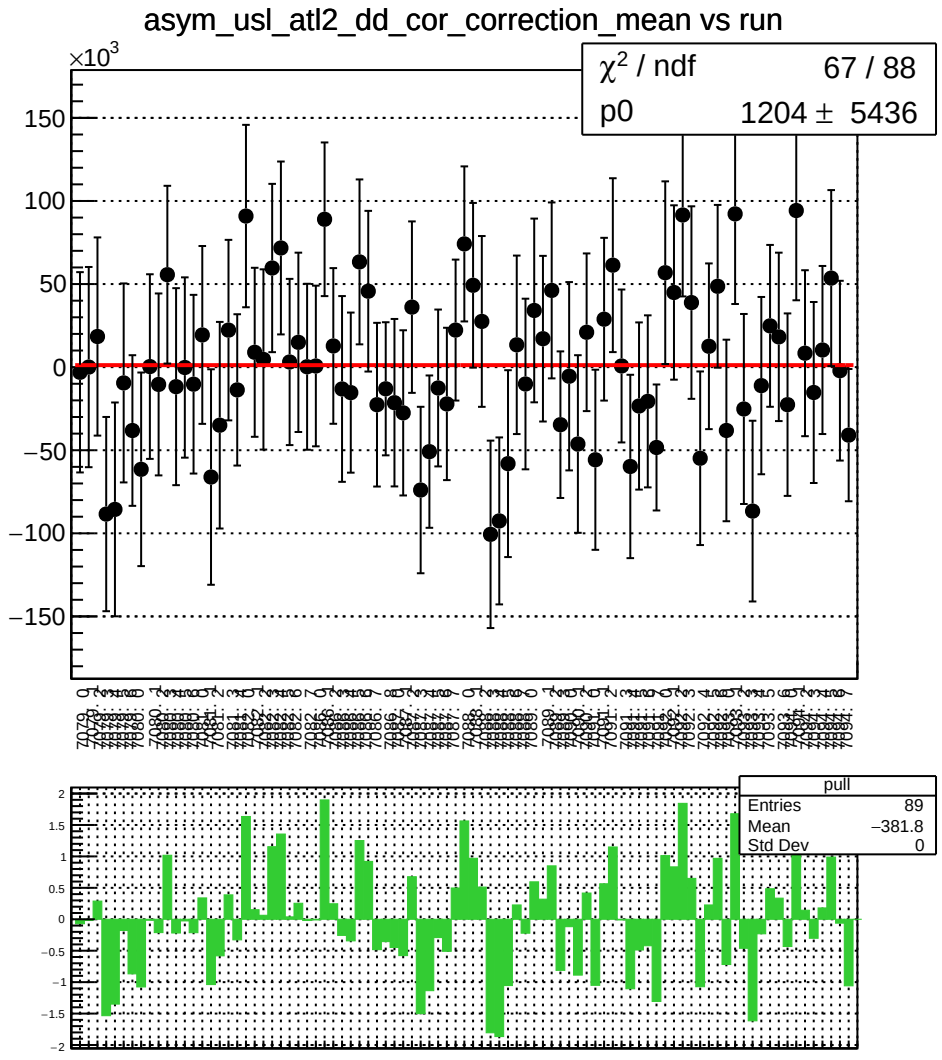

pull1D
Entries 89
Mean −0.00384
Std Dev 0.8676
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

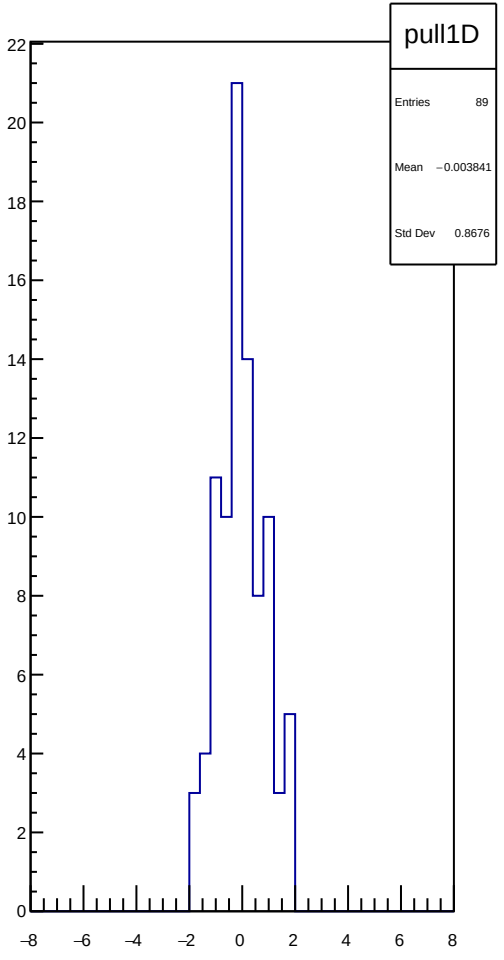

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.026e+04 / 88
p0 4976 ± 3.844
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

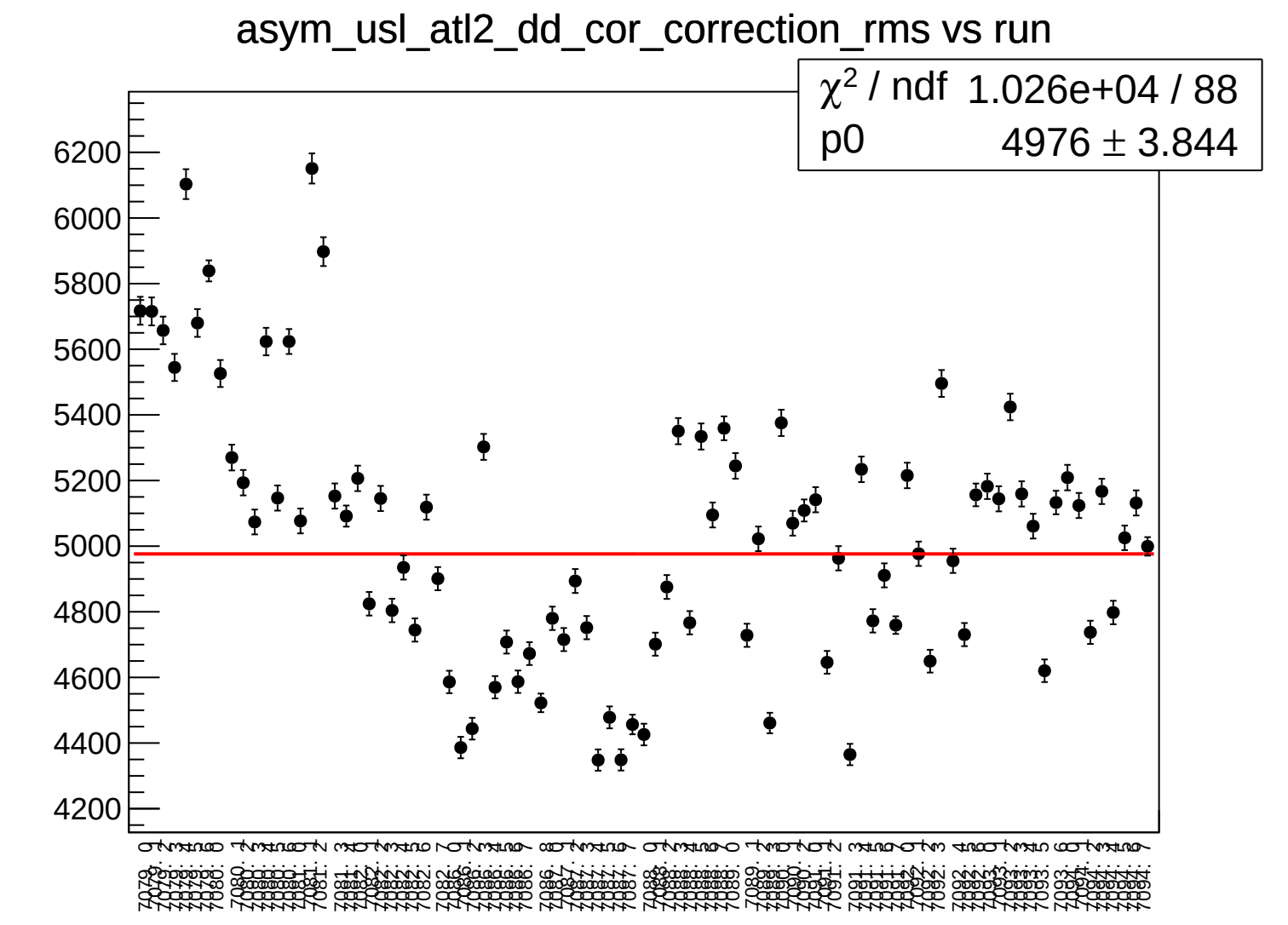

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.67 / 88
p0 1140 ± 1268
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 259.4
Std Dev 0
2
1
0
−1
−2

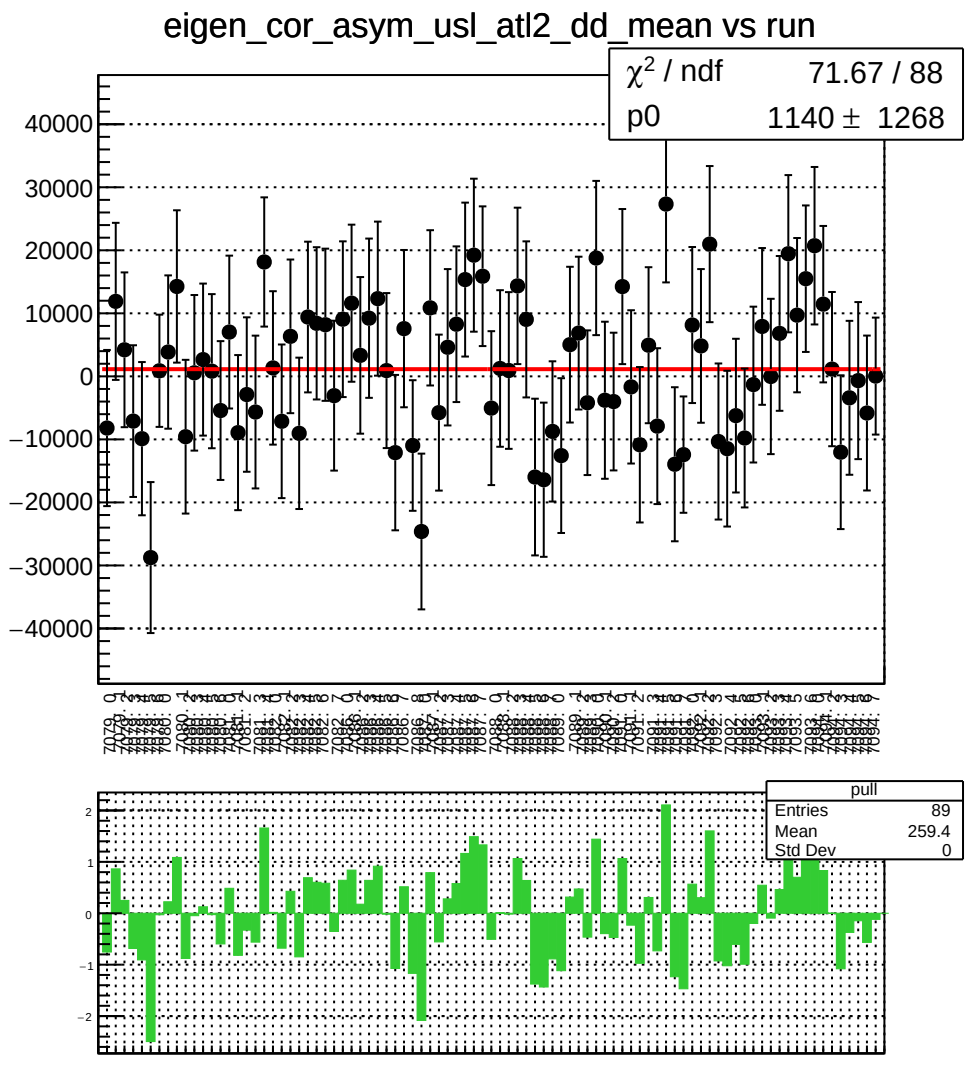

pull1D
Entries 89
Mean 0.008352
Std Dev 0.8973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

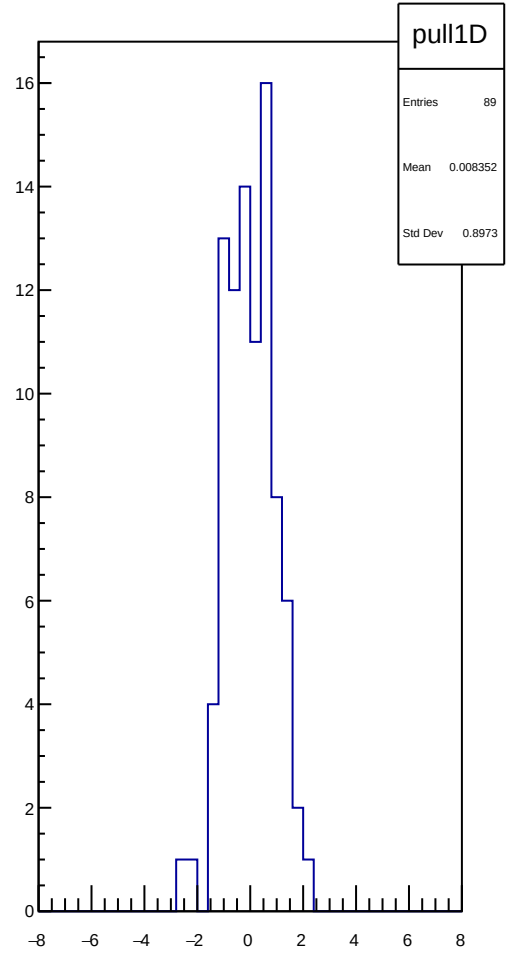

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 193.7 / 88
p0 1164 ± 0.8967
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120

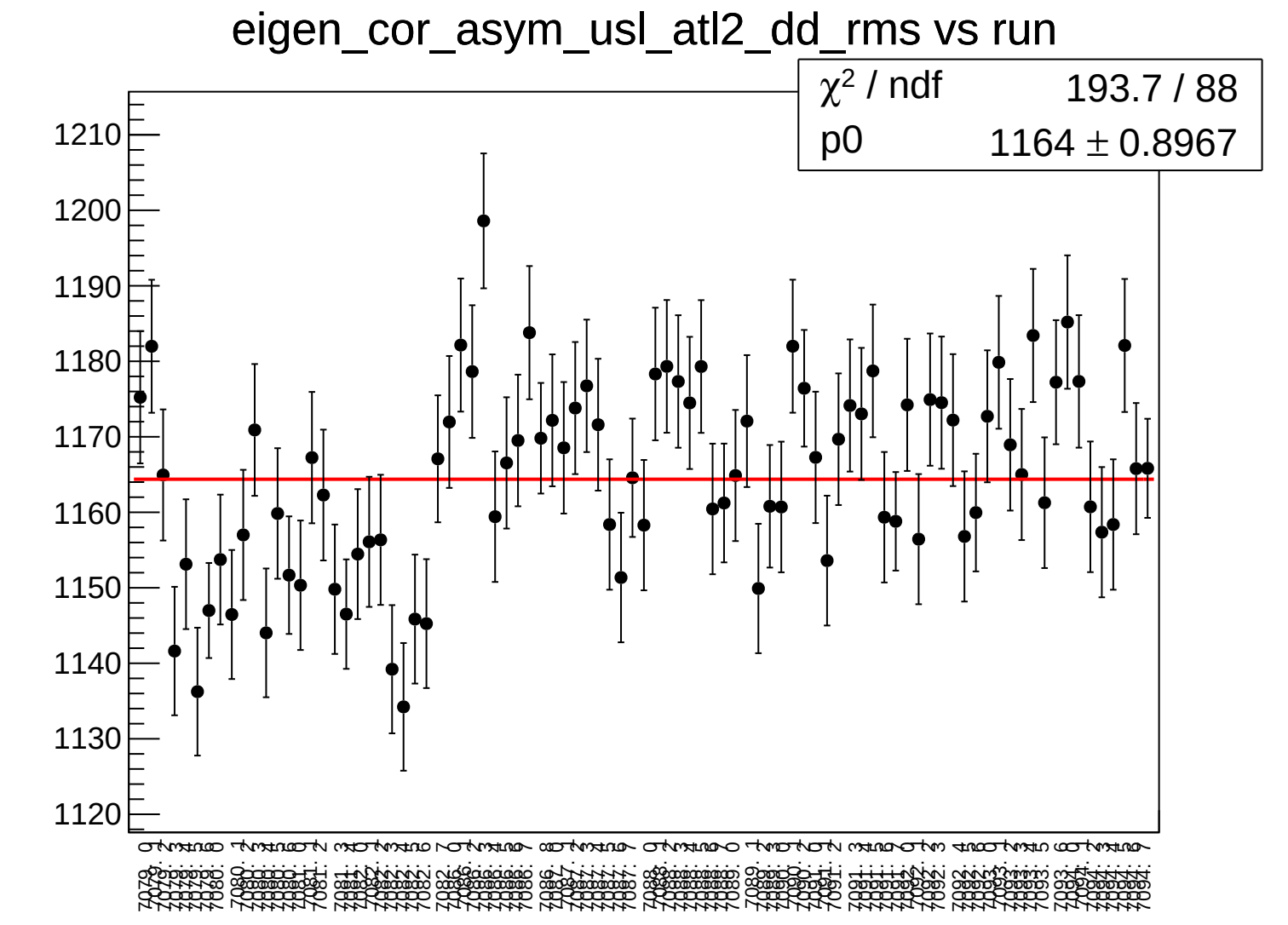

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 67 / 88
p0 1204 ± 5436
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −381.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

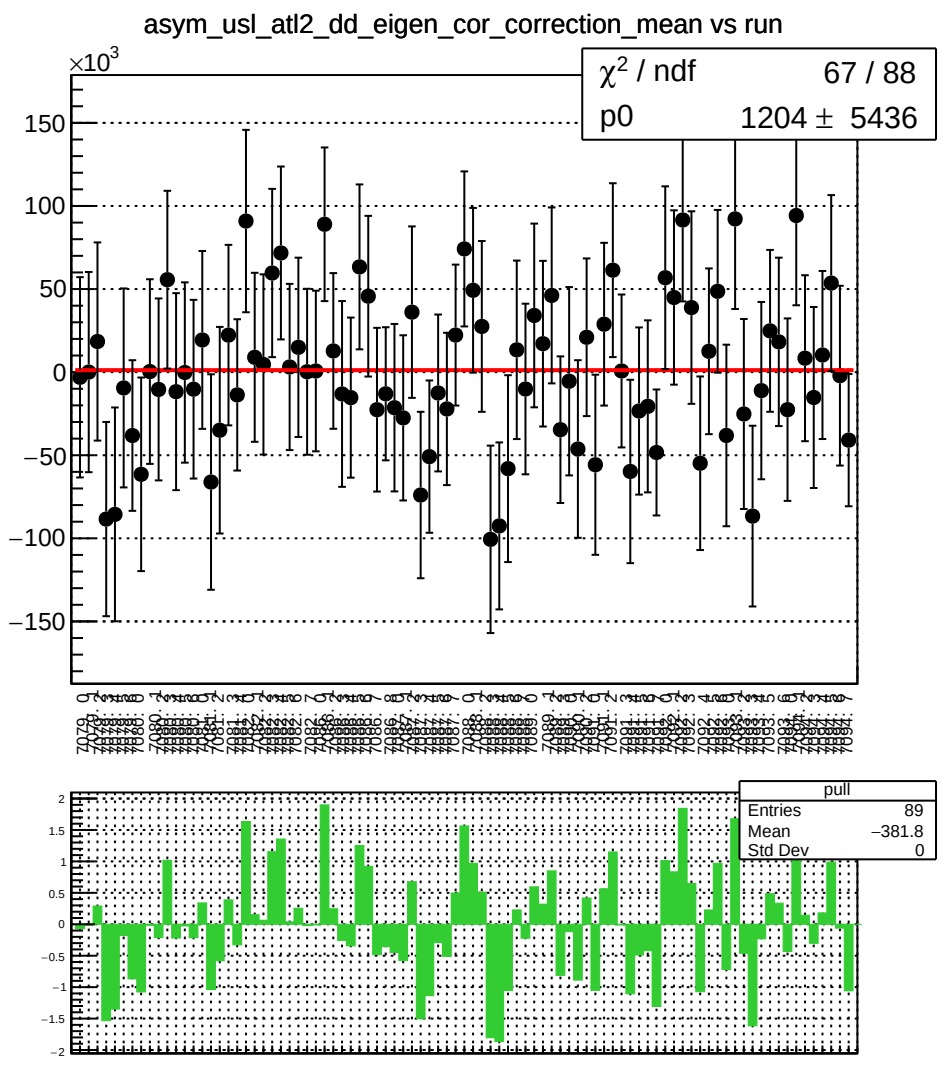

pull1D
Entries 89
Mean −0.003841
Std Dev 0.8676
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

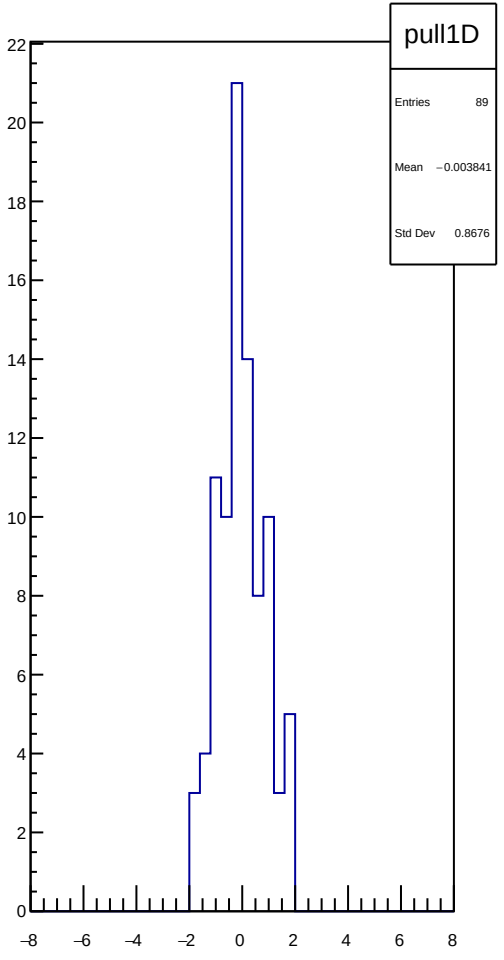

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.026e+04 / 88
p0 4976 ± 3.844
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

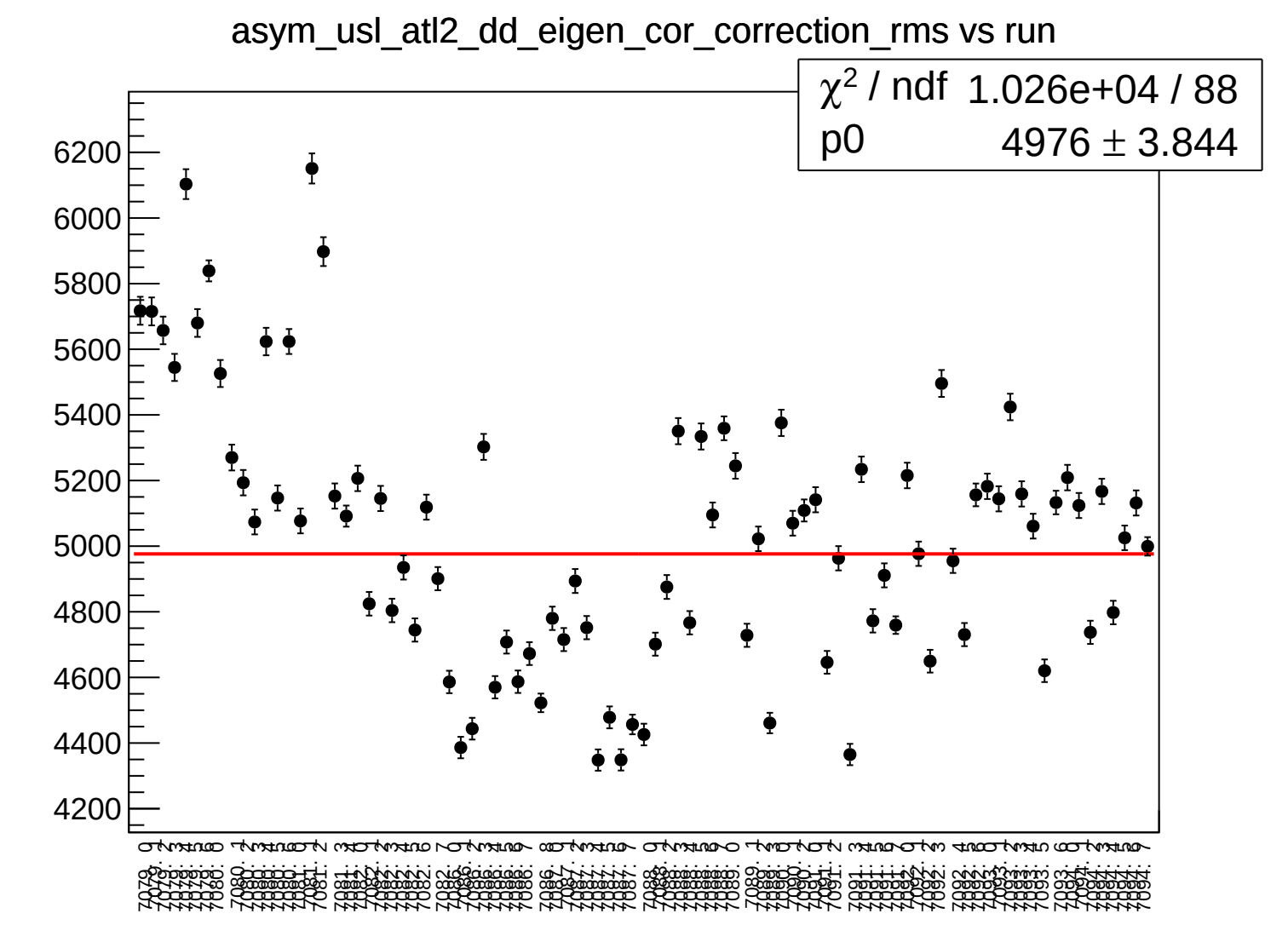

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.67 / 88
p0 1140 ± 1268
pull
Entries 89
Mean 259.4
Std Dev 0

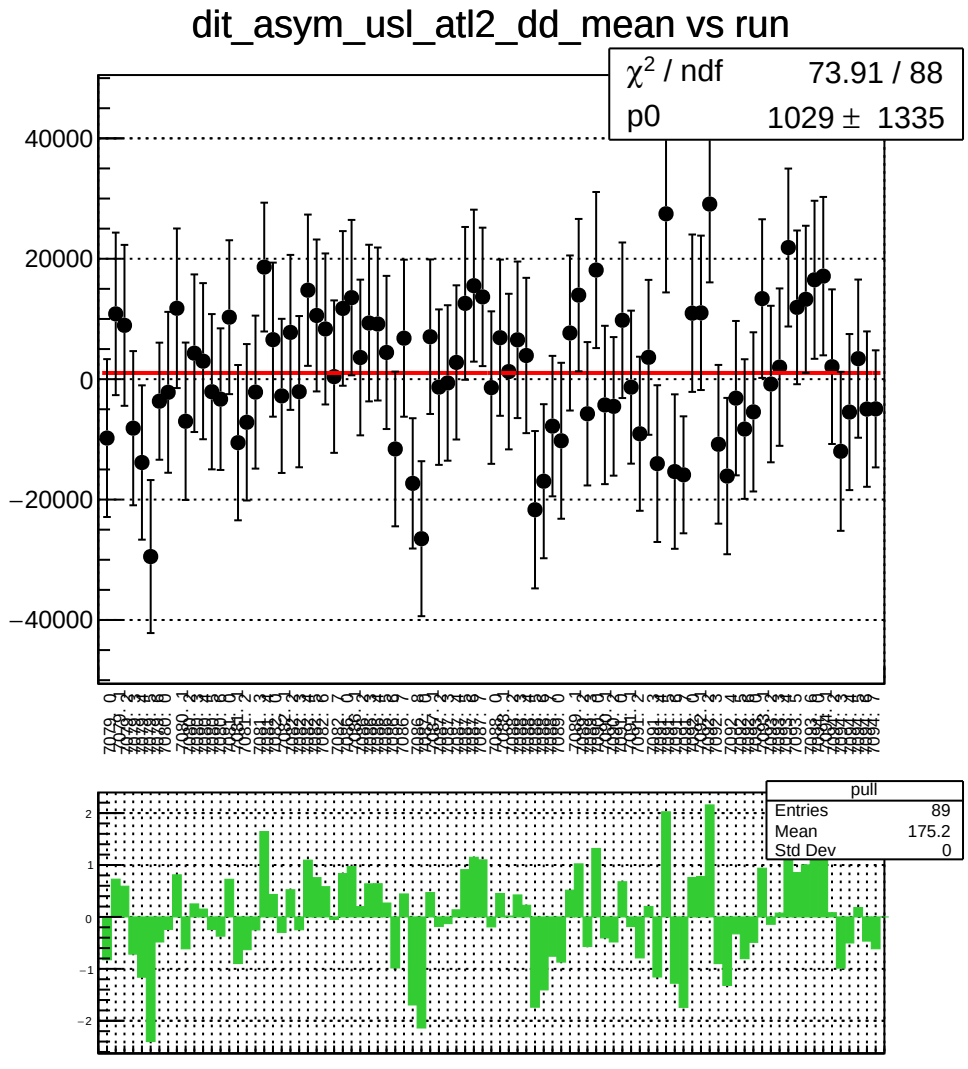

pull1D
Entries 89
Mean 0.008352
Std Dev 0.8973

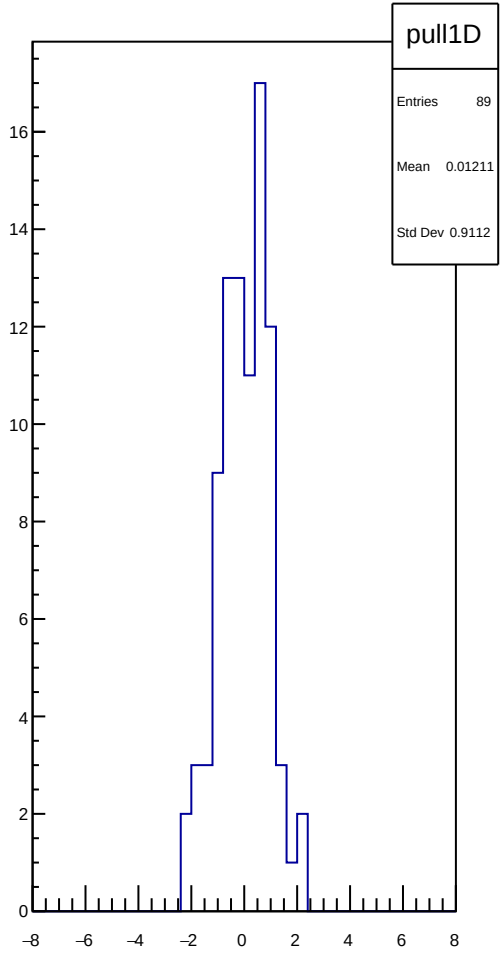

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 193.7 / 88
p0 1164 ± 0.8967
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120

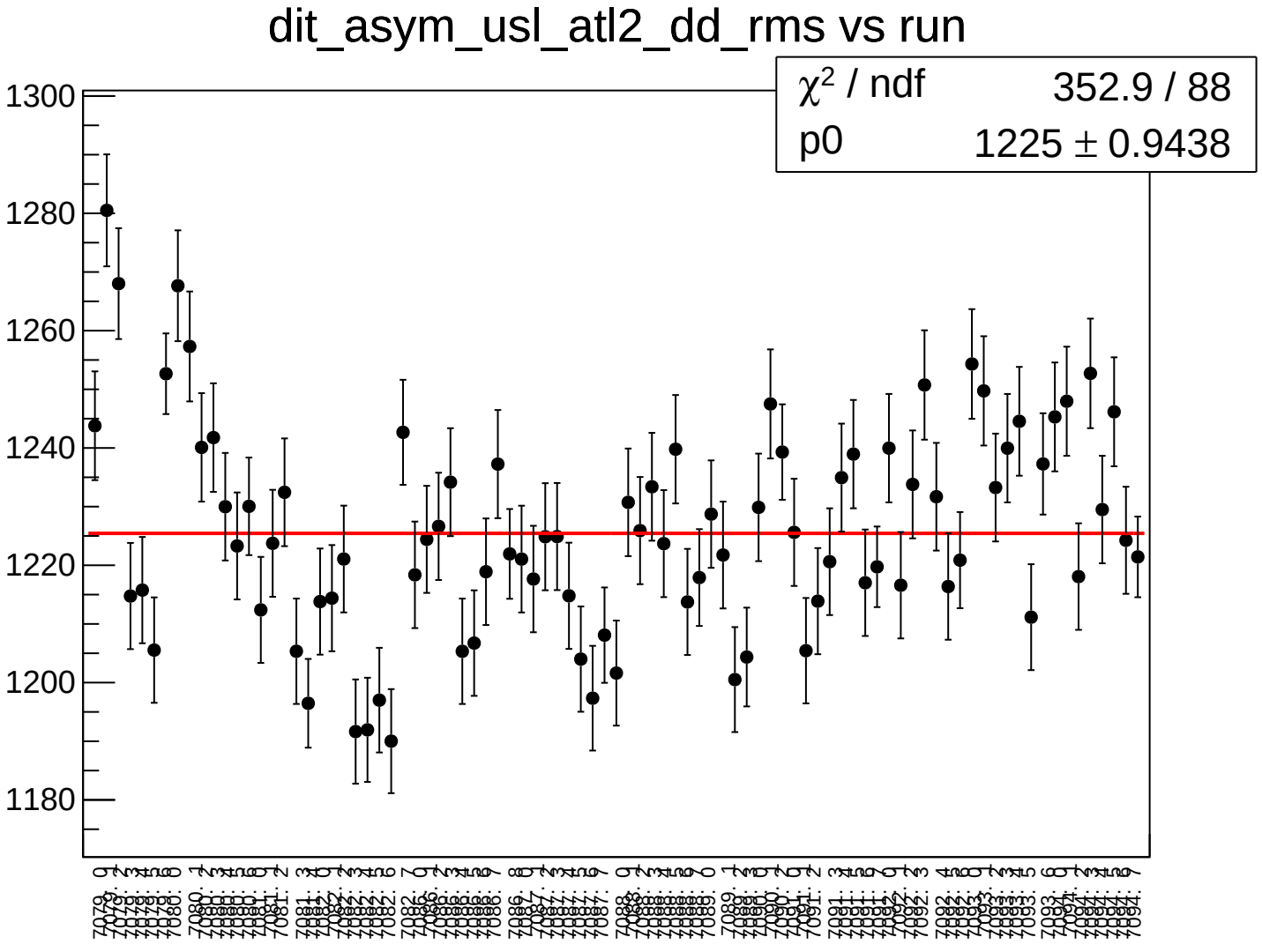

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67 / 88
p0 1204 ± 5436
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −381.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

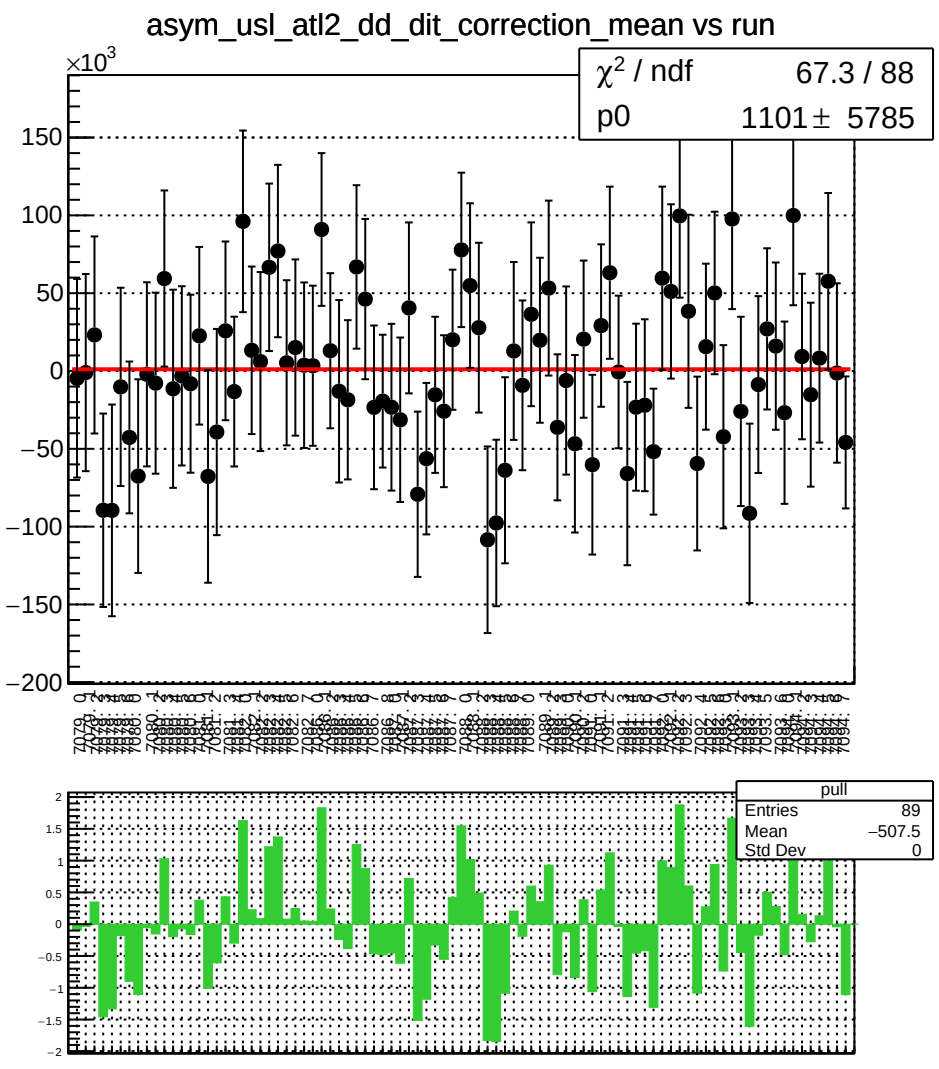

pull1D
Entries 89
Mean −0.003841
Std Dev 0.8676
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

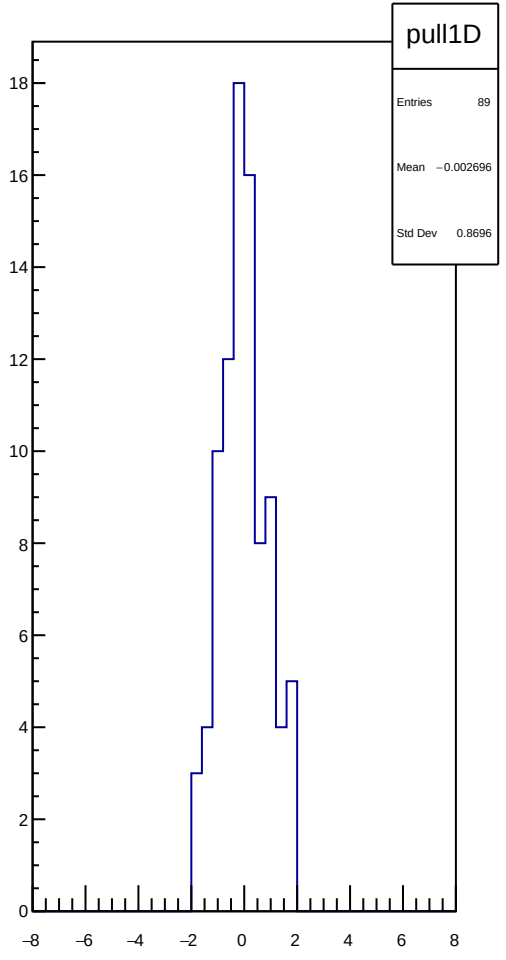

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.026e+04 / 88
p0 4976 ± 3.844
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

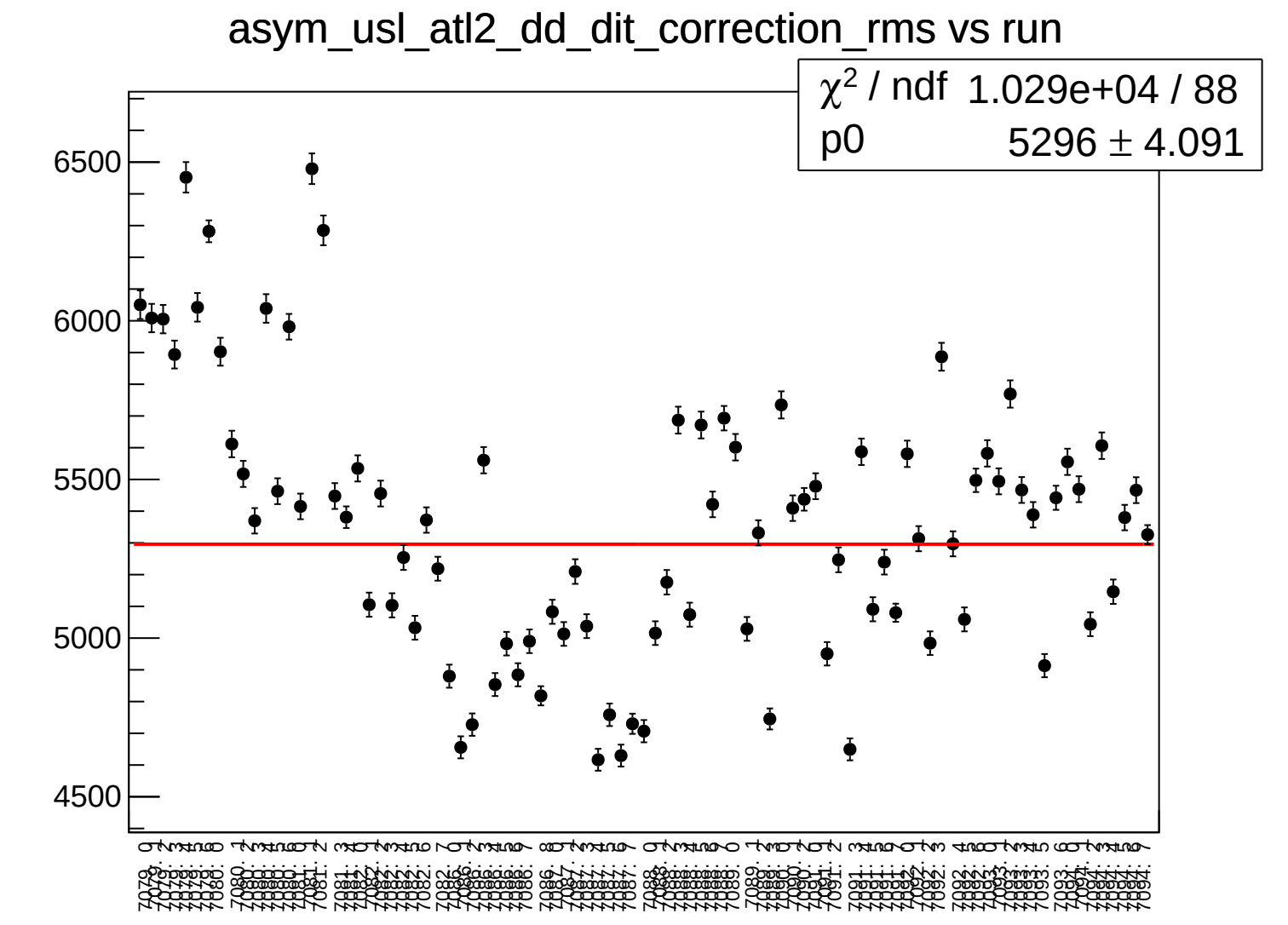

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 73.91 / 88
p0 1029 ± 1335
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 175.2
Std Dev 0
2
1
0
−1
−2

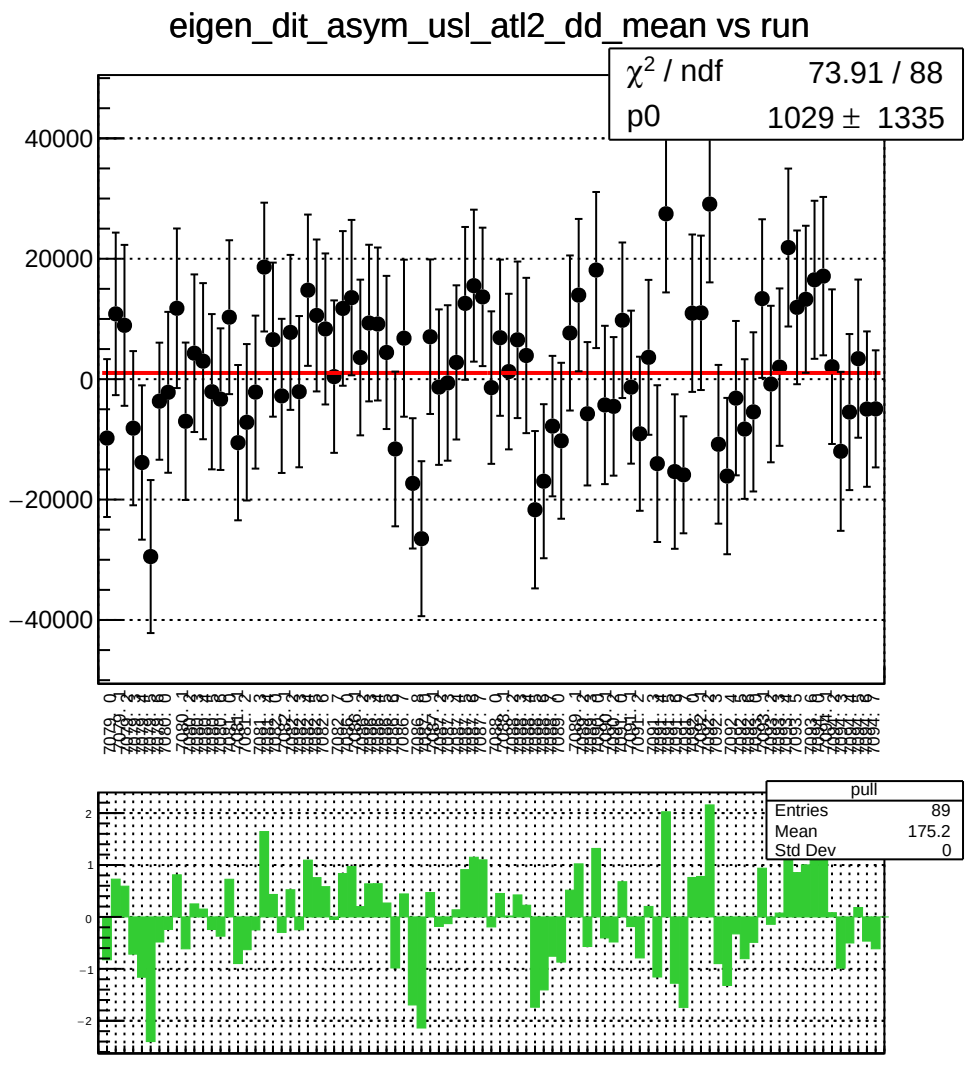

pull1D
Entries 89
Mean 0.01211
Std Dev 0.9112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

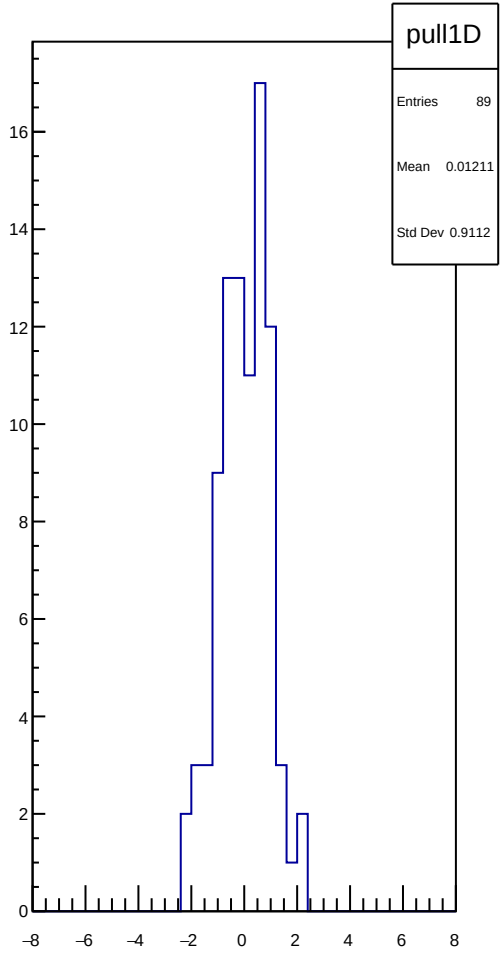

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 352.9 / 88
p0 1225 ± 0.9438
1300
1280
1260
1240
1220
1200
1180

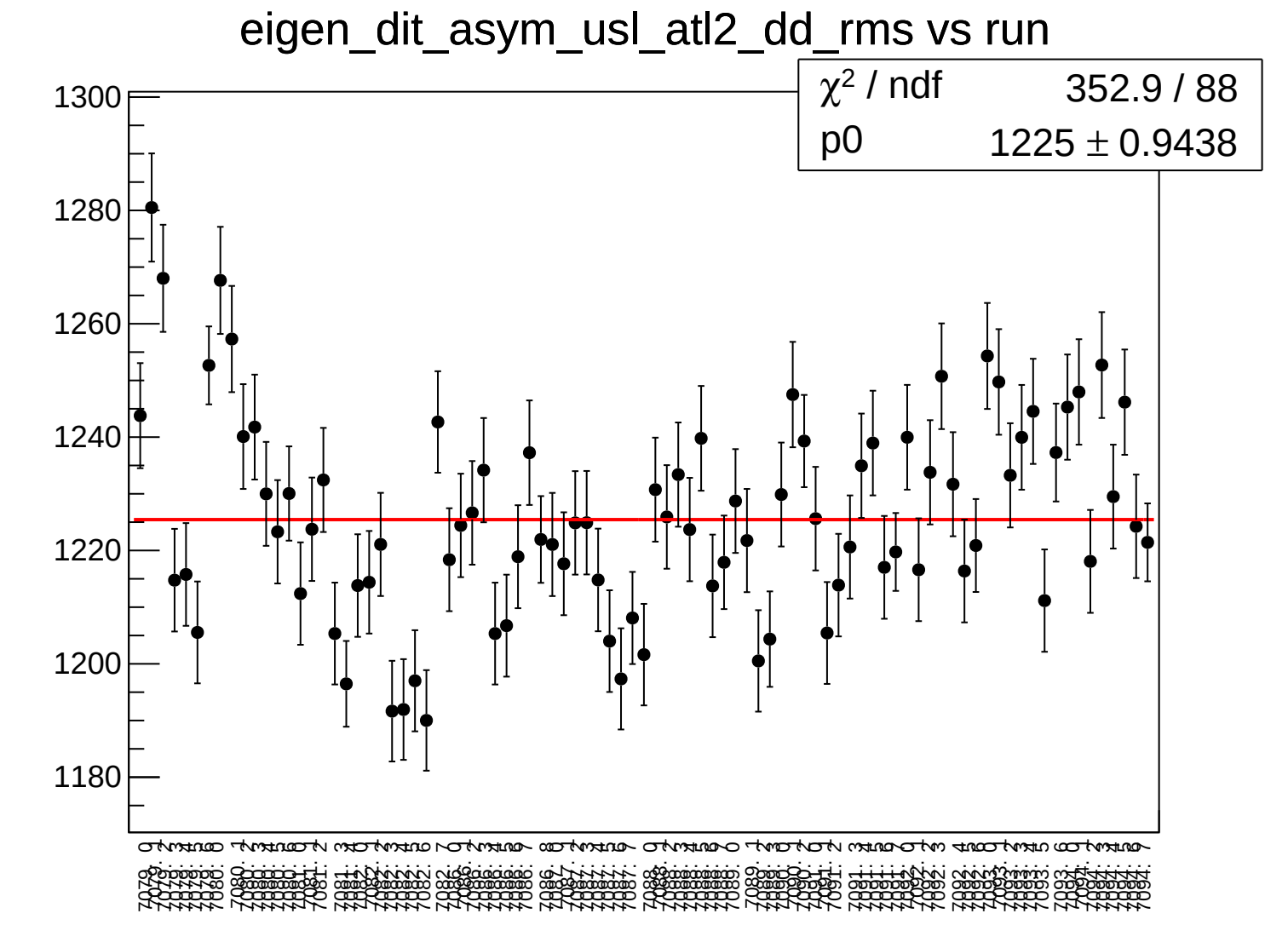

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 67.3 / 88
p0 1101 ± 5785
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −507.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

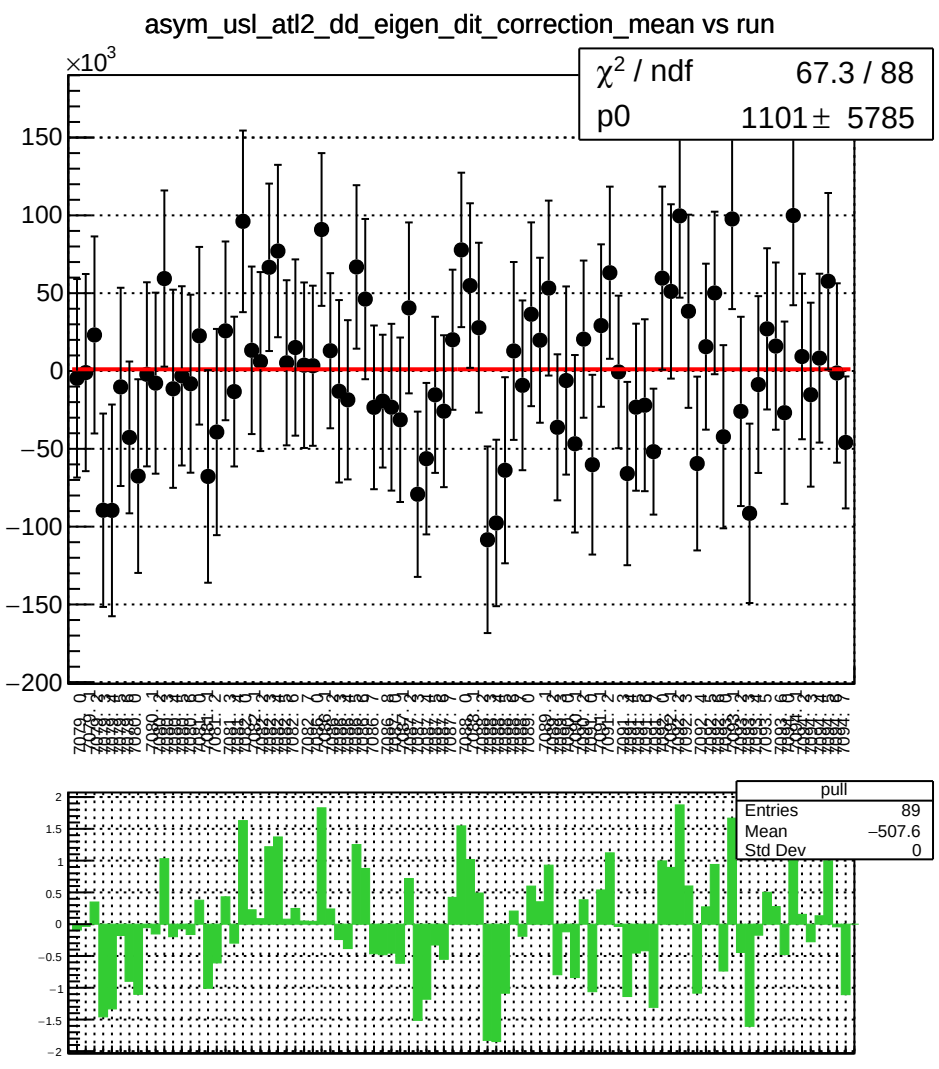

pull1D
Entries 89
Mean −0.002696
Std Dev 0.8696
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

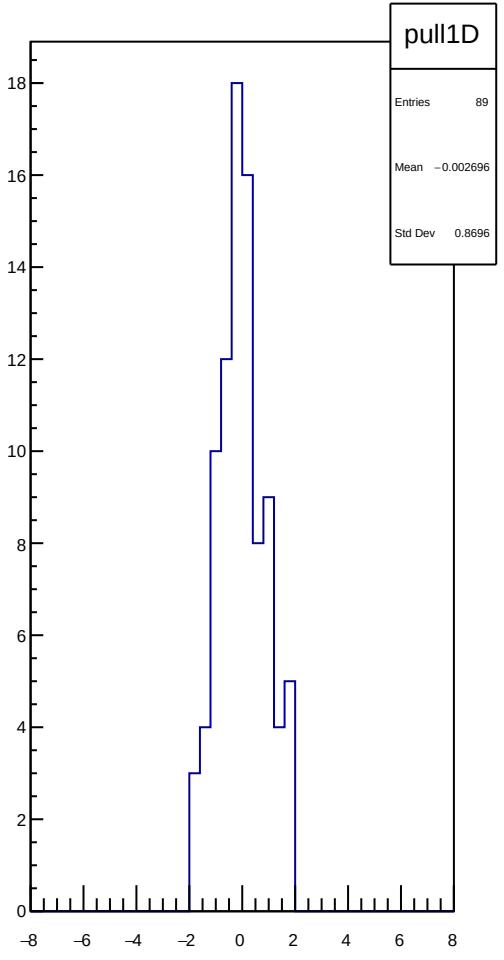

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.029e+04 / 88
p0 5296 ± 4.091
6500
6000
5500
5000
4500

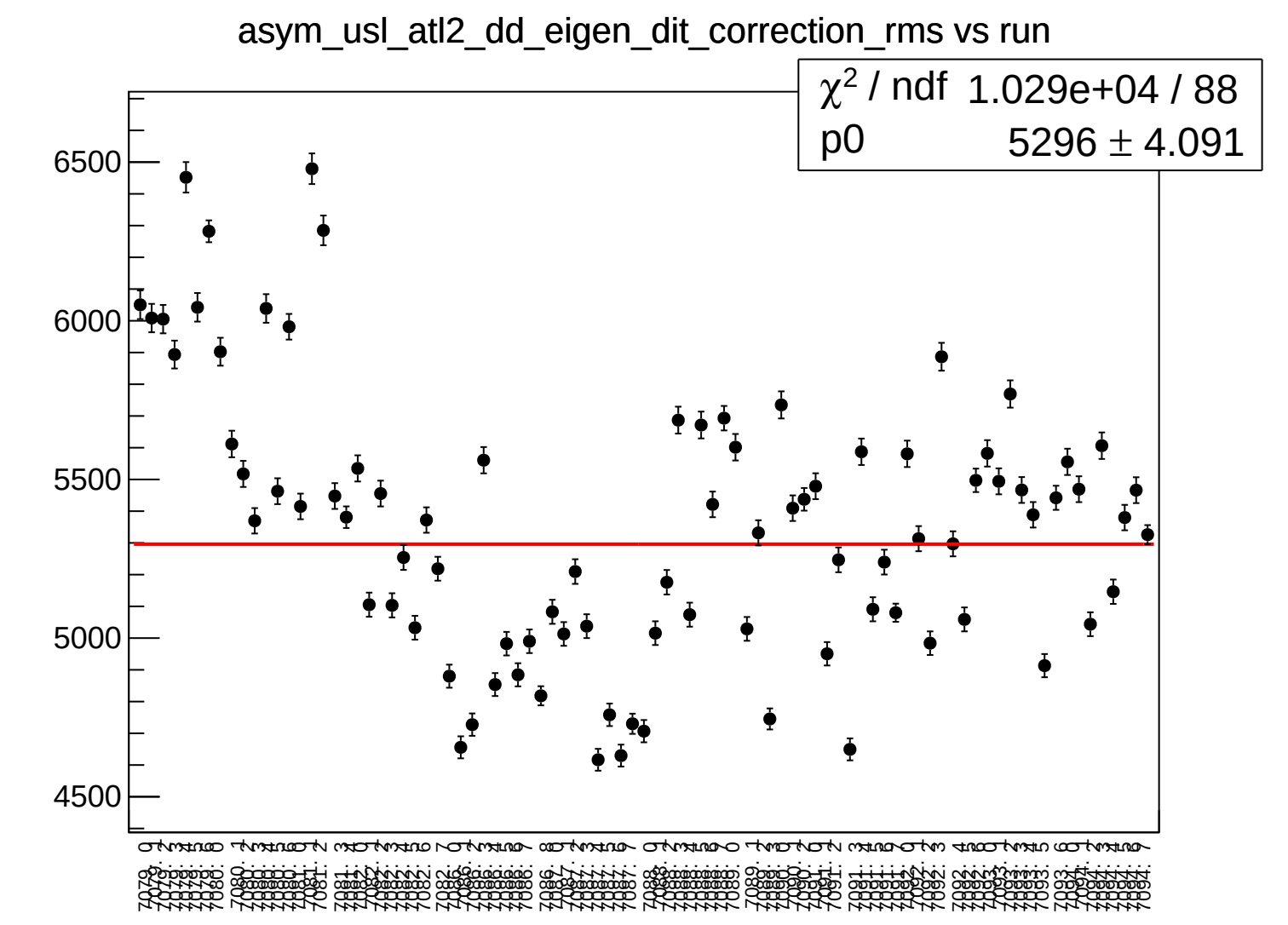

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 73.91 / 88
p0 1029 ± 1335
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 175.2
Std Dev 0
2
1
0
−1
−2

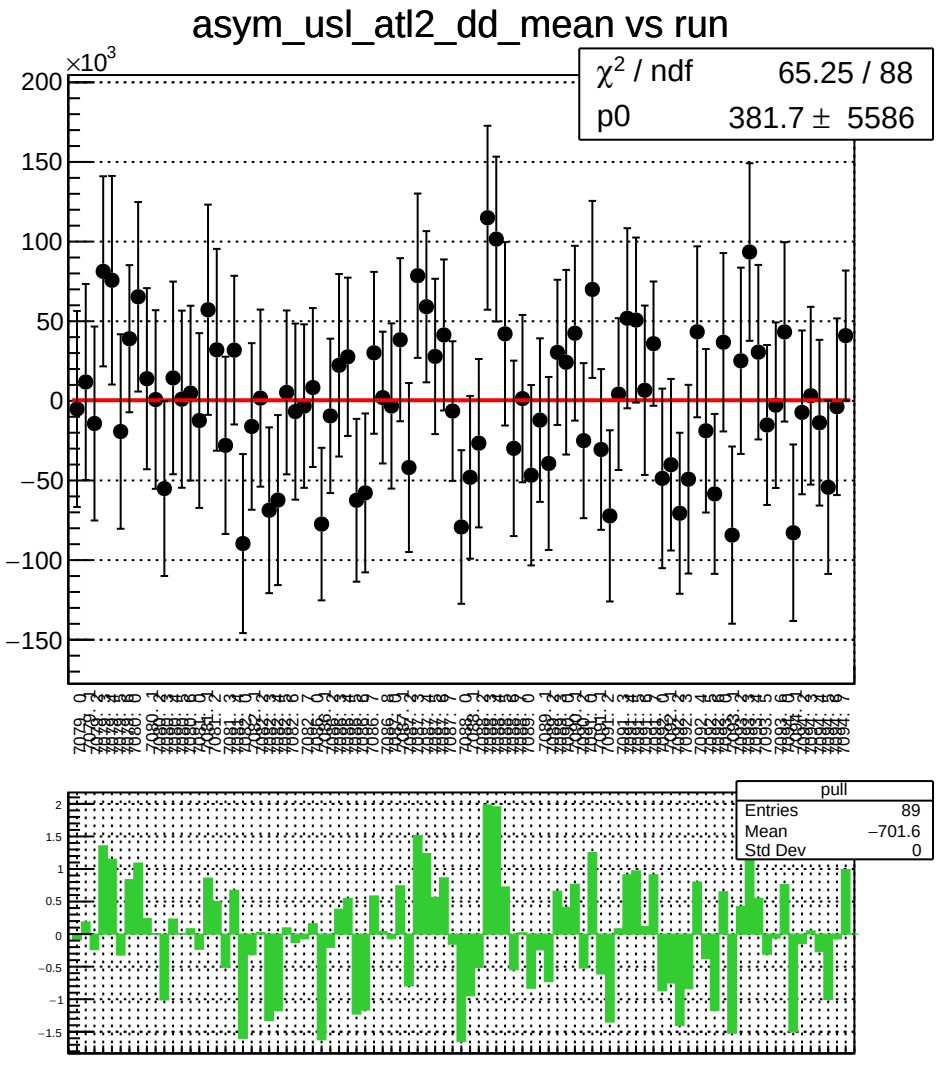

pull1D
Entries 89
Mean 0.01211
Std Dev 0.9112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

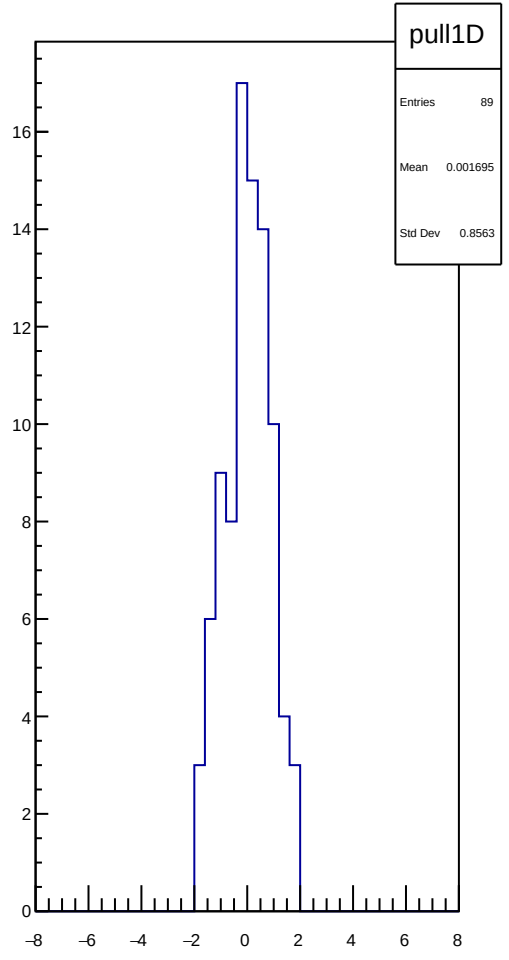

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 352.9 / 88
p0 1225 ± 0.9438
1300
1280
1260
1240
1220
1200
1180

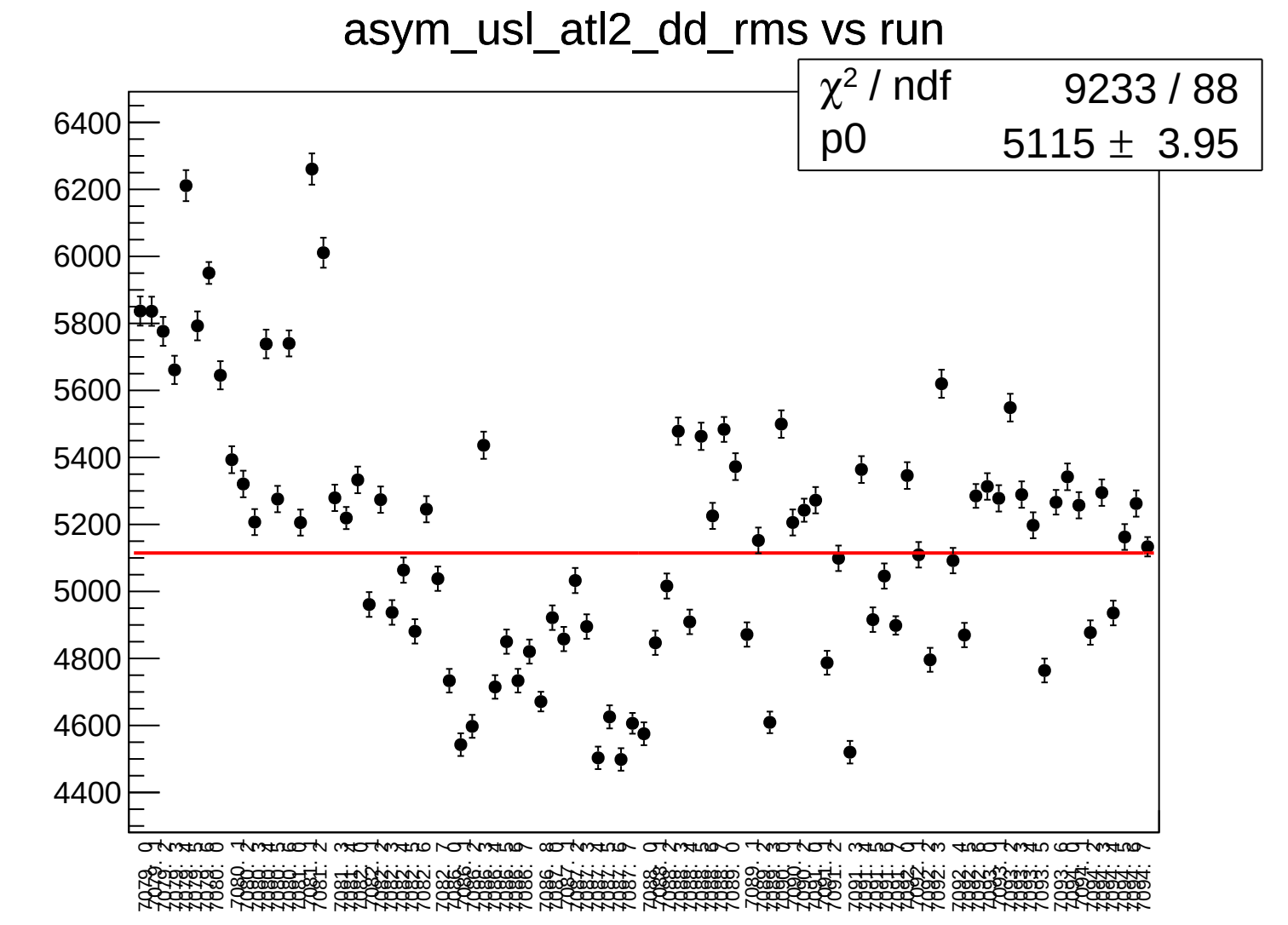

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 67.3 / 88
p0 1101 ± 5785
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −507.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

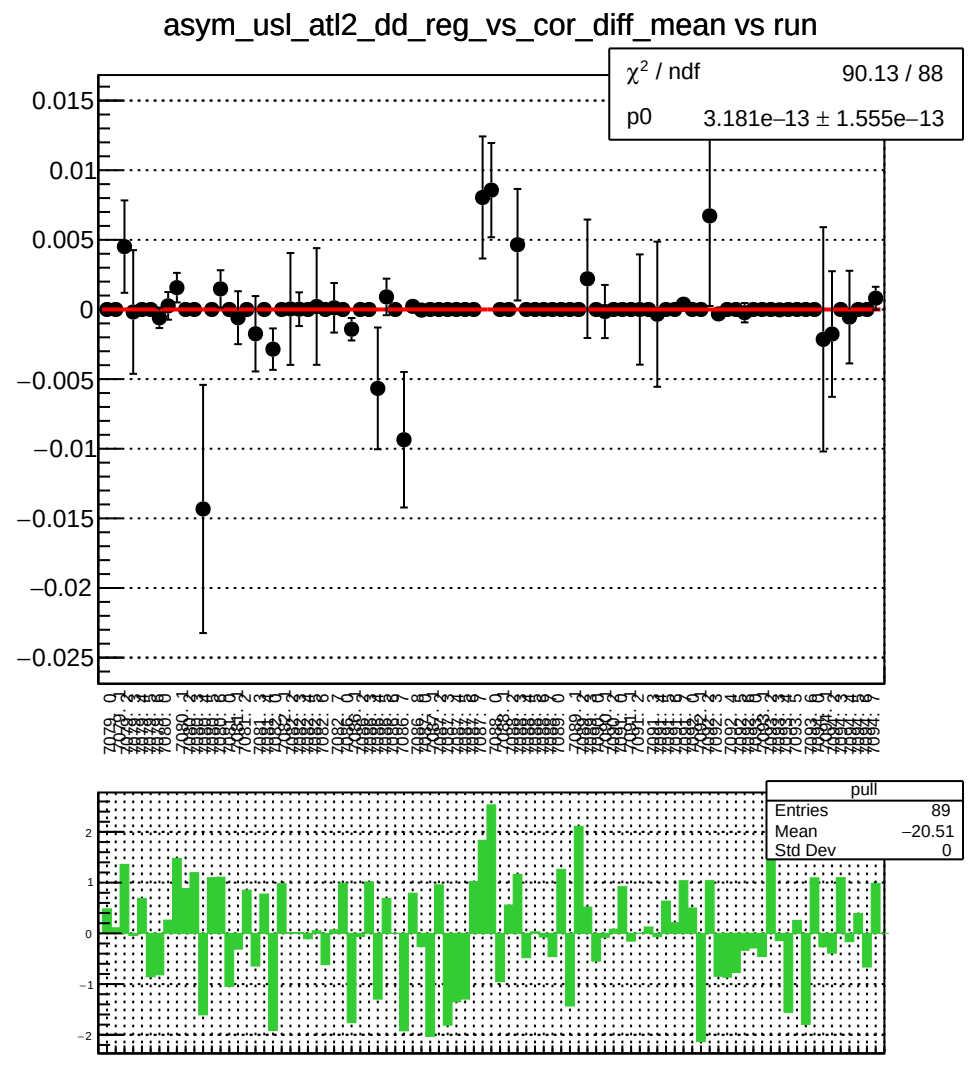

pull1D
Entries 89
Mean −0.002696
Std Dev 0.8696
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

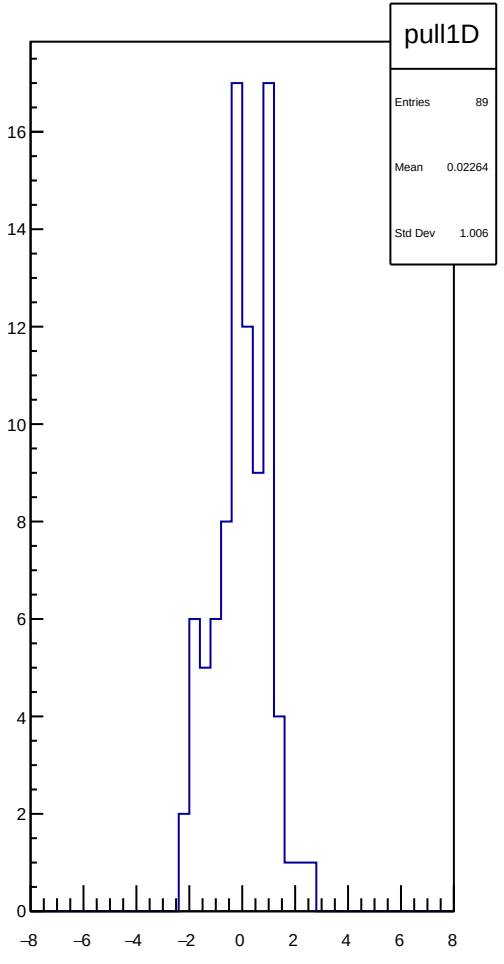

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.029e+04 / 88
p0 5296 ± 4.091
6500
6000
5500
5000
4500

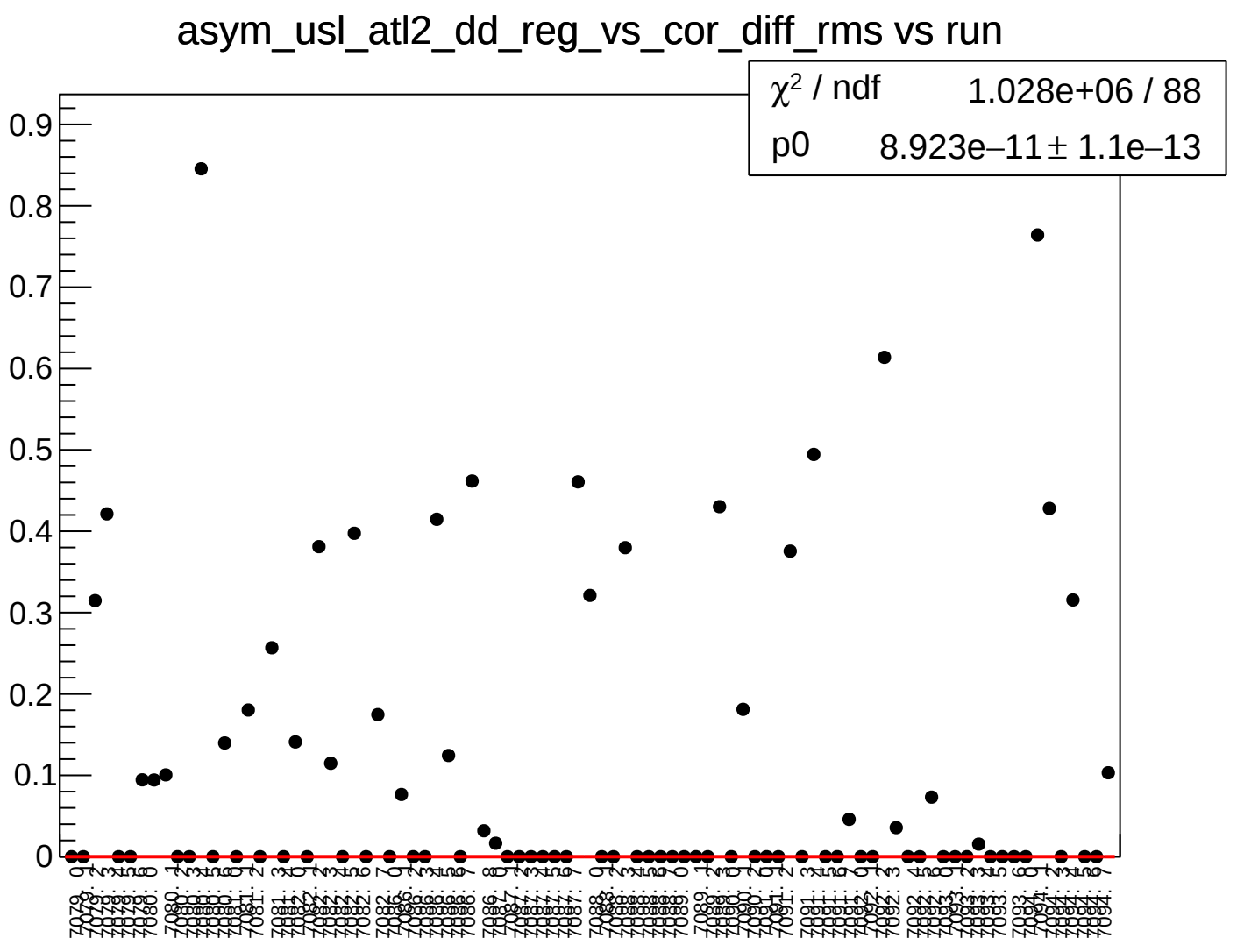

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 65.25 / 88
p0 381.7 ± 5586
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −701.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

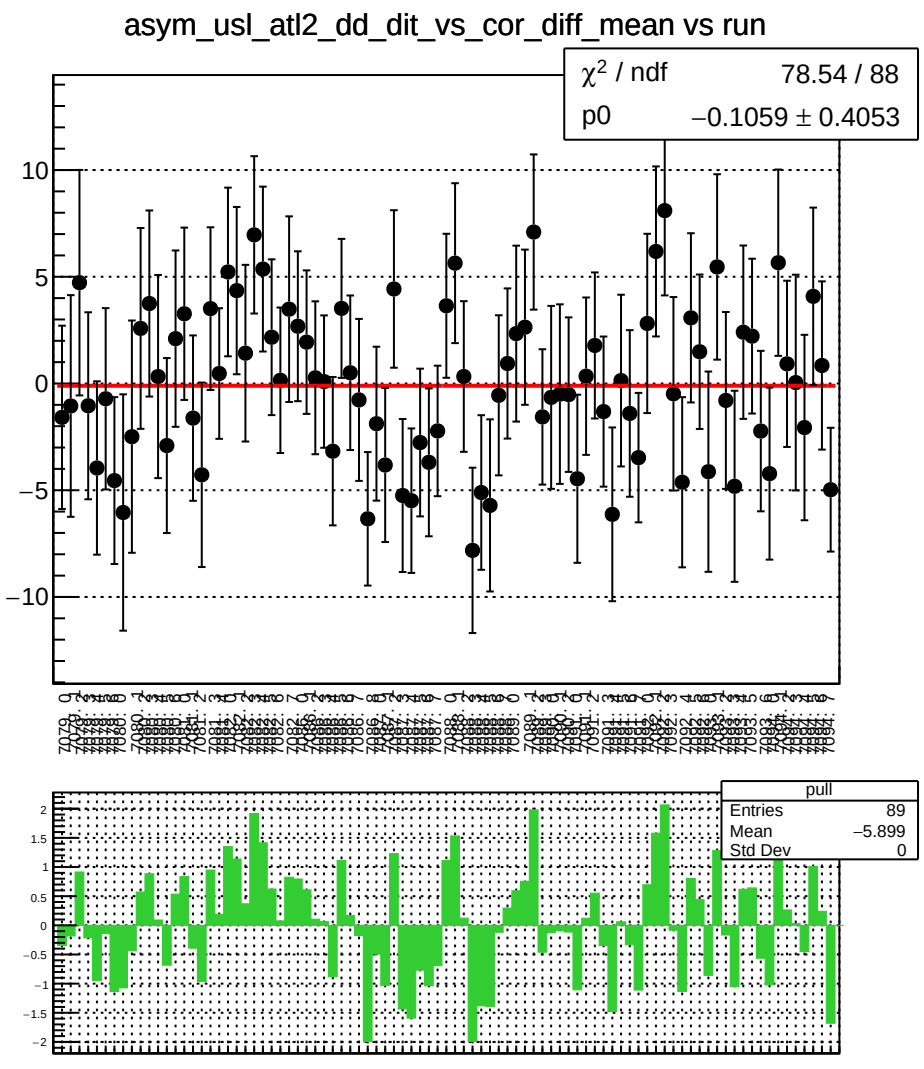

pull1D
Entries 89
Mean 0.001695
Std Dev 0.8563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

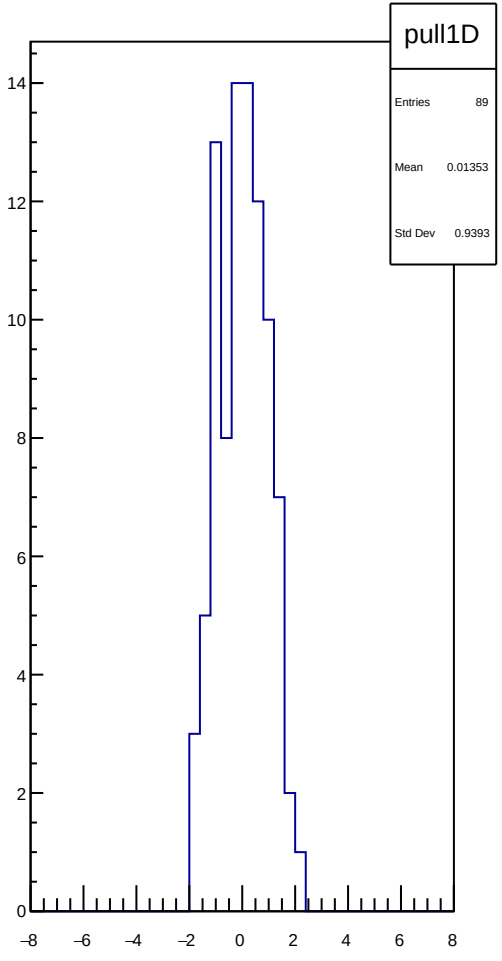

asym_usl_atl2_dd_rms vs run
χ² / ndf 9233 / 88
p0 5115 ± 3.95
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

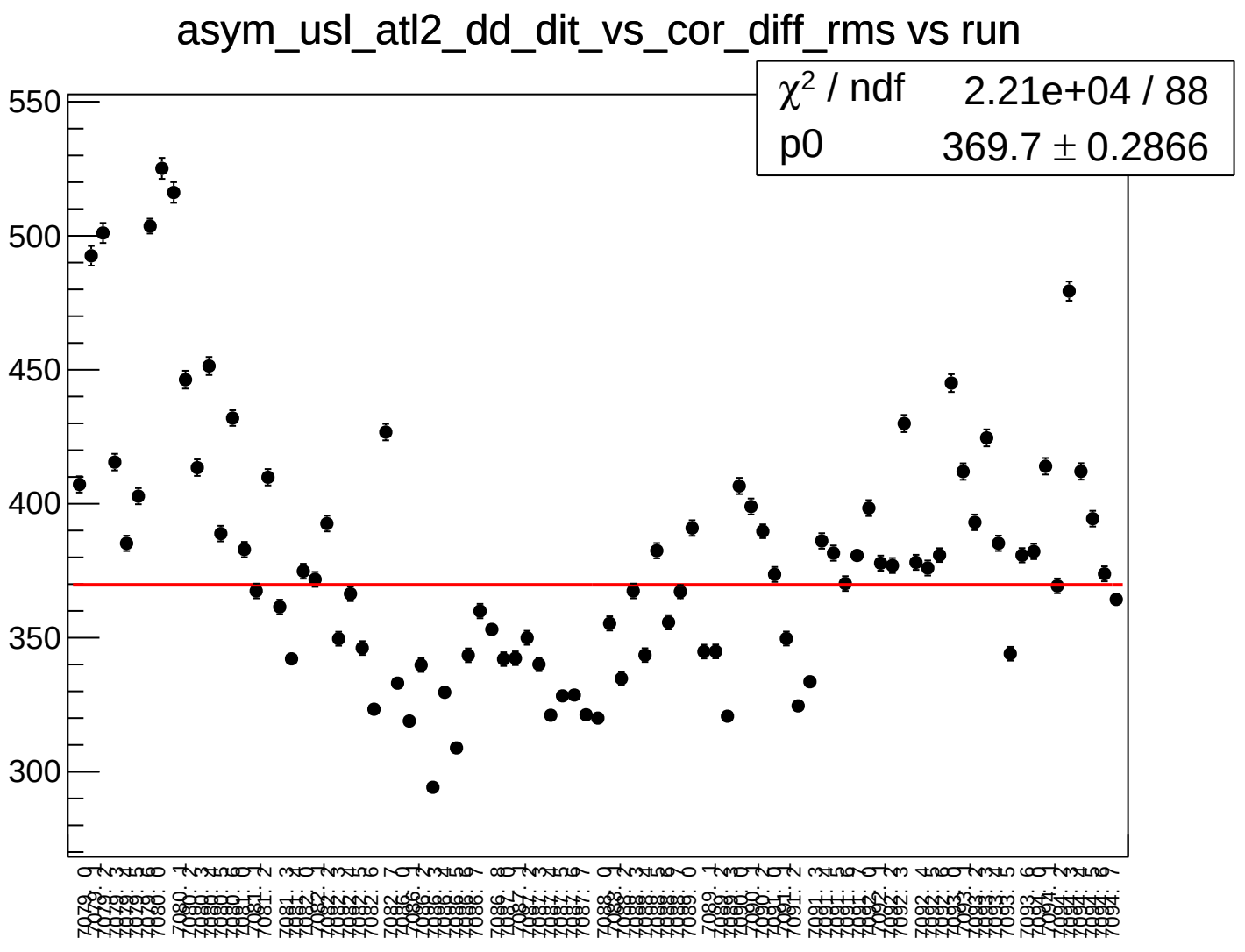

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.13 / 88
p0 3.181e−13 ± 1.555e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 89
Mean −20.51
Std Dev 0
2
1
0
−1
−2

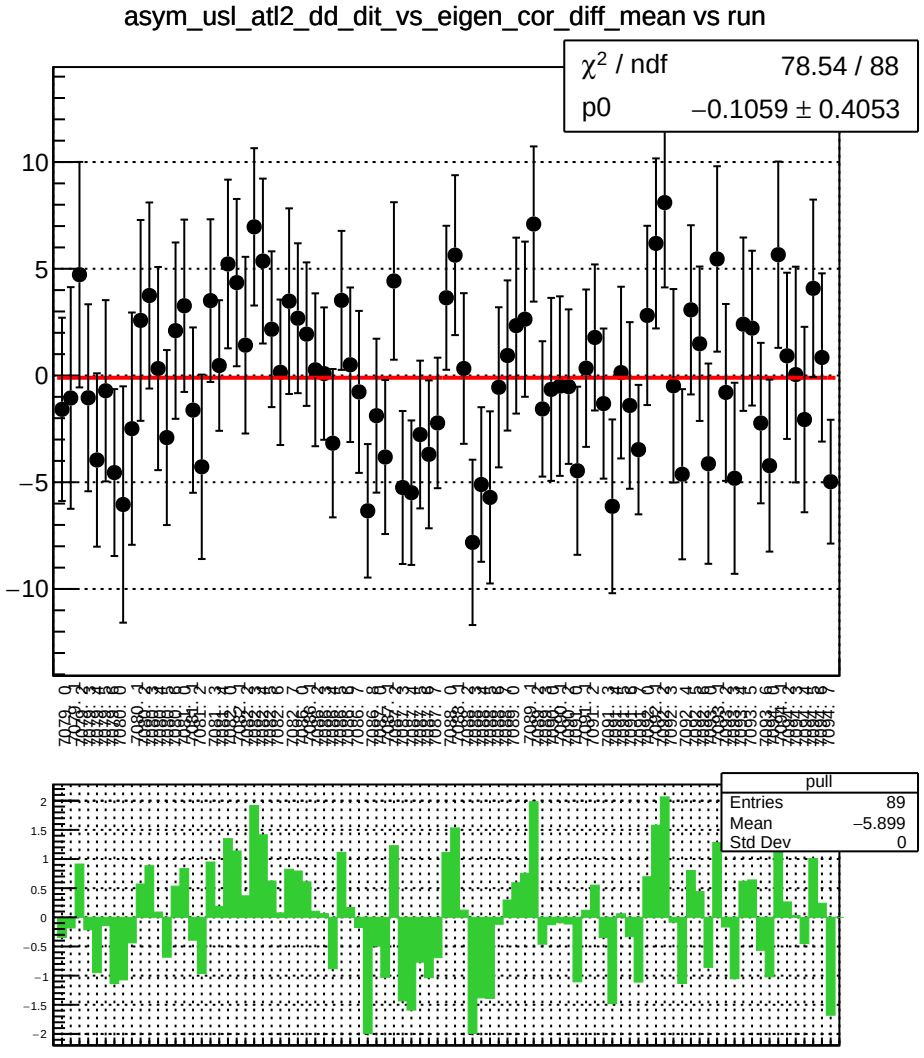

pull1D
Entries 89
Mean 0.02264
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

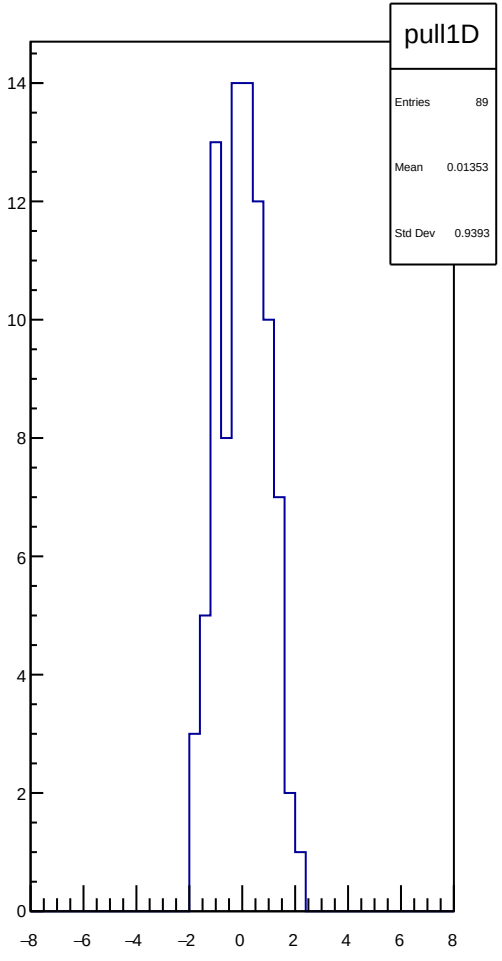

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.028e+06 / 88
p0 8.923e−11 ± 1.1e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

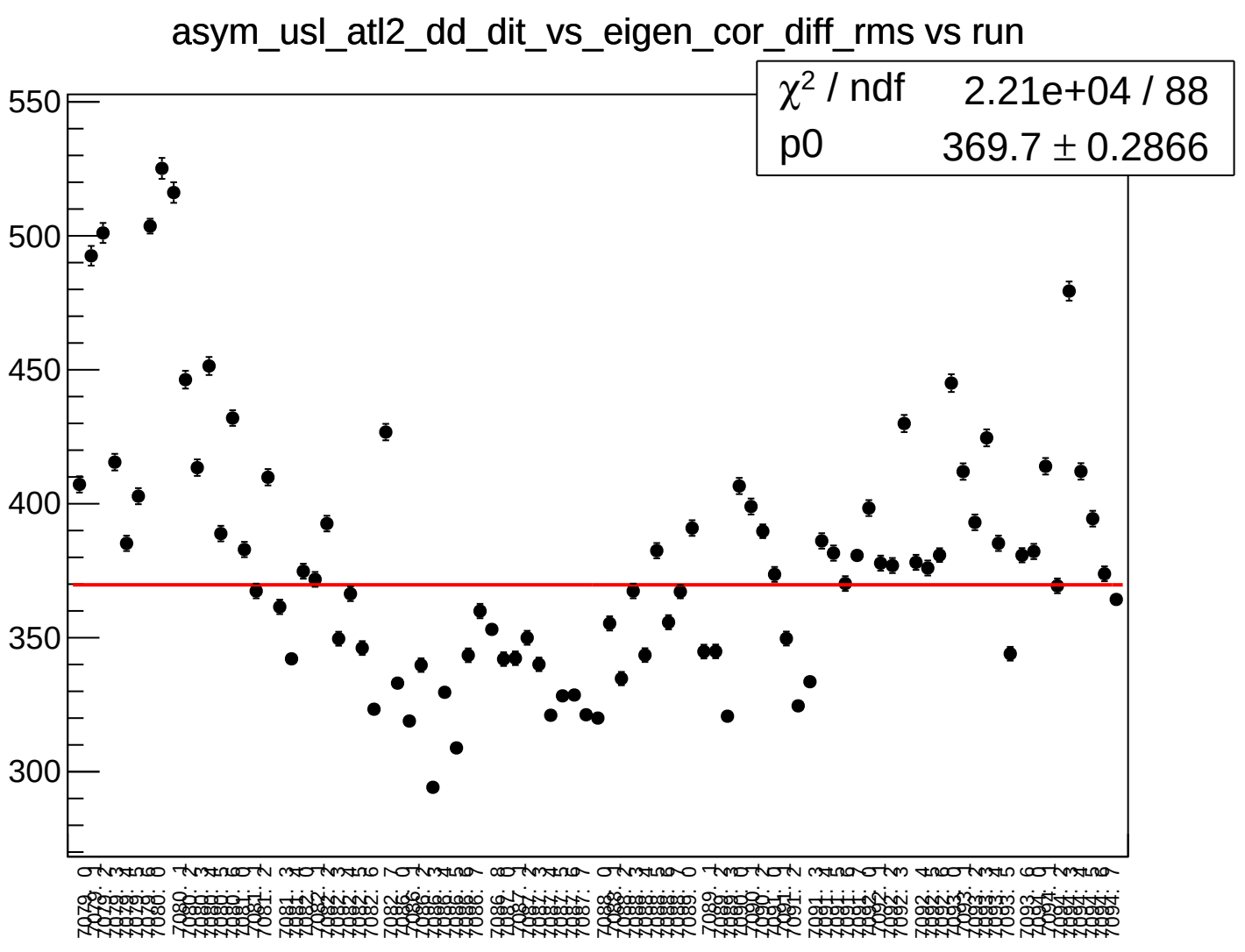

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 88
p0 −0.1059 ± 0.4053
pull
Entries 89
Mean −5.899
Std Dev 0

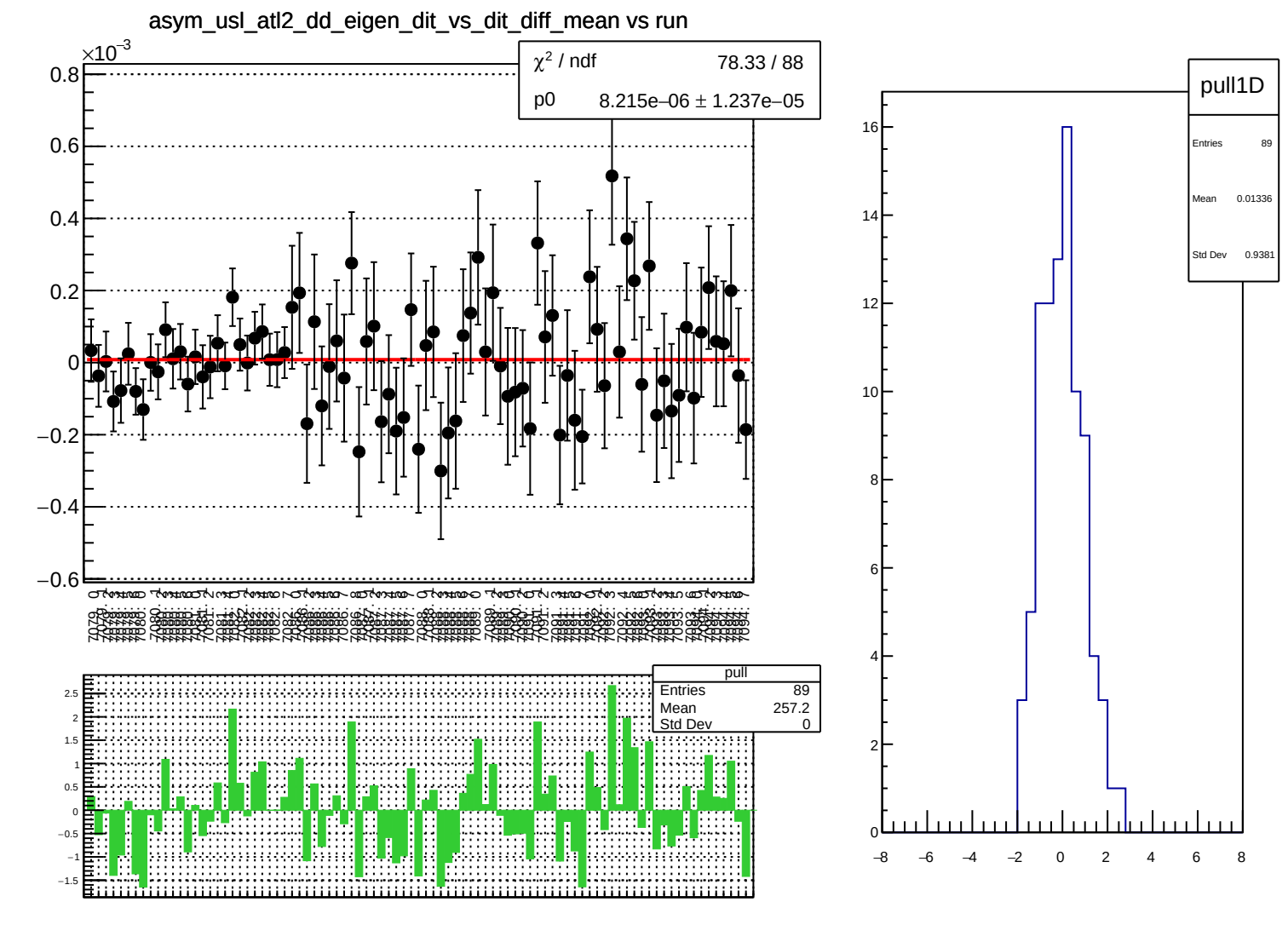

pull1D
Entries 89
Mean 0.01353
Std Dev 0.9393

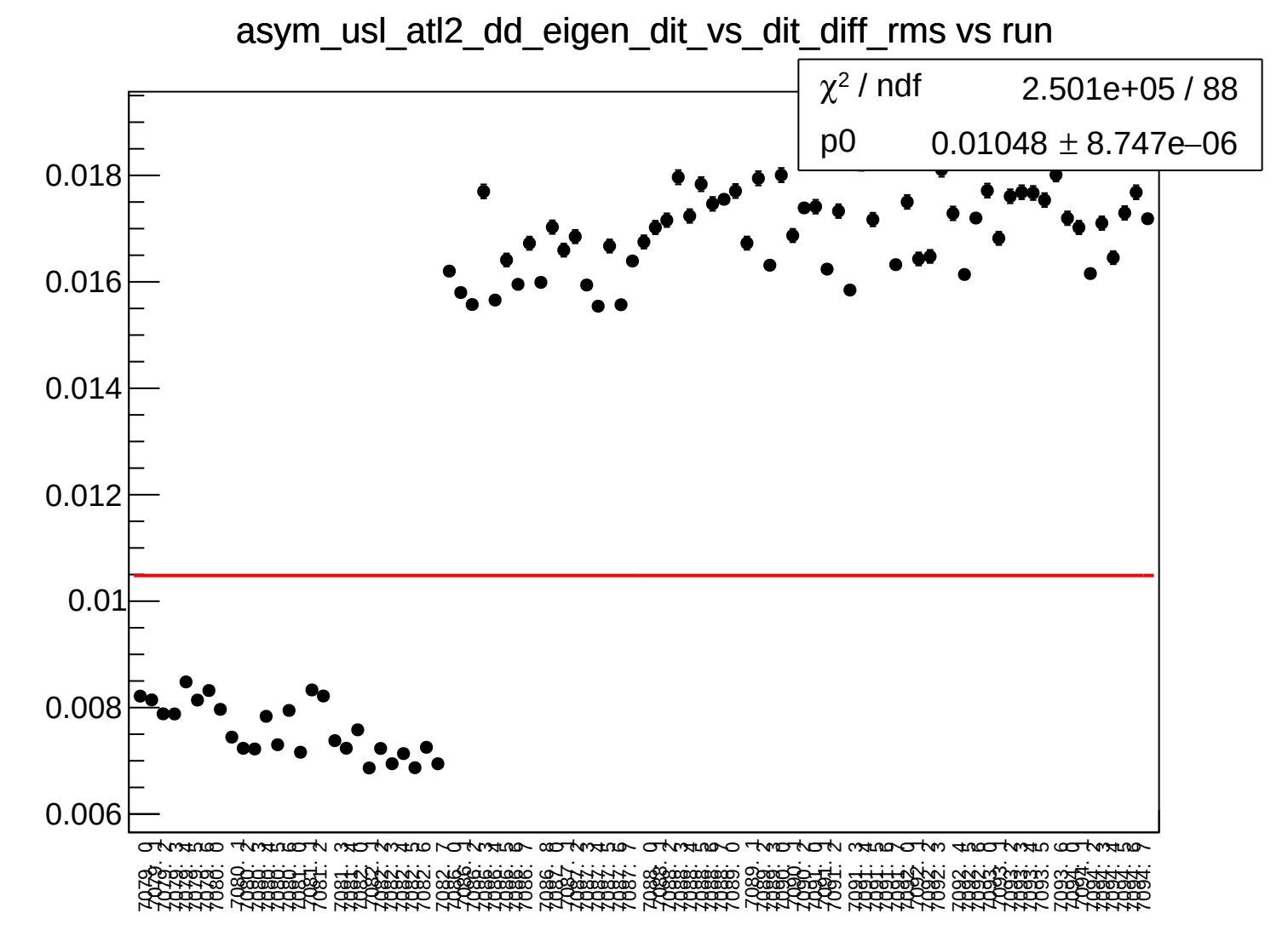

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.21e+04 / 88
p0 369.7 ± 0.2866
550
500
450
400
350
300

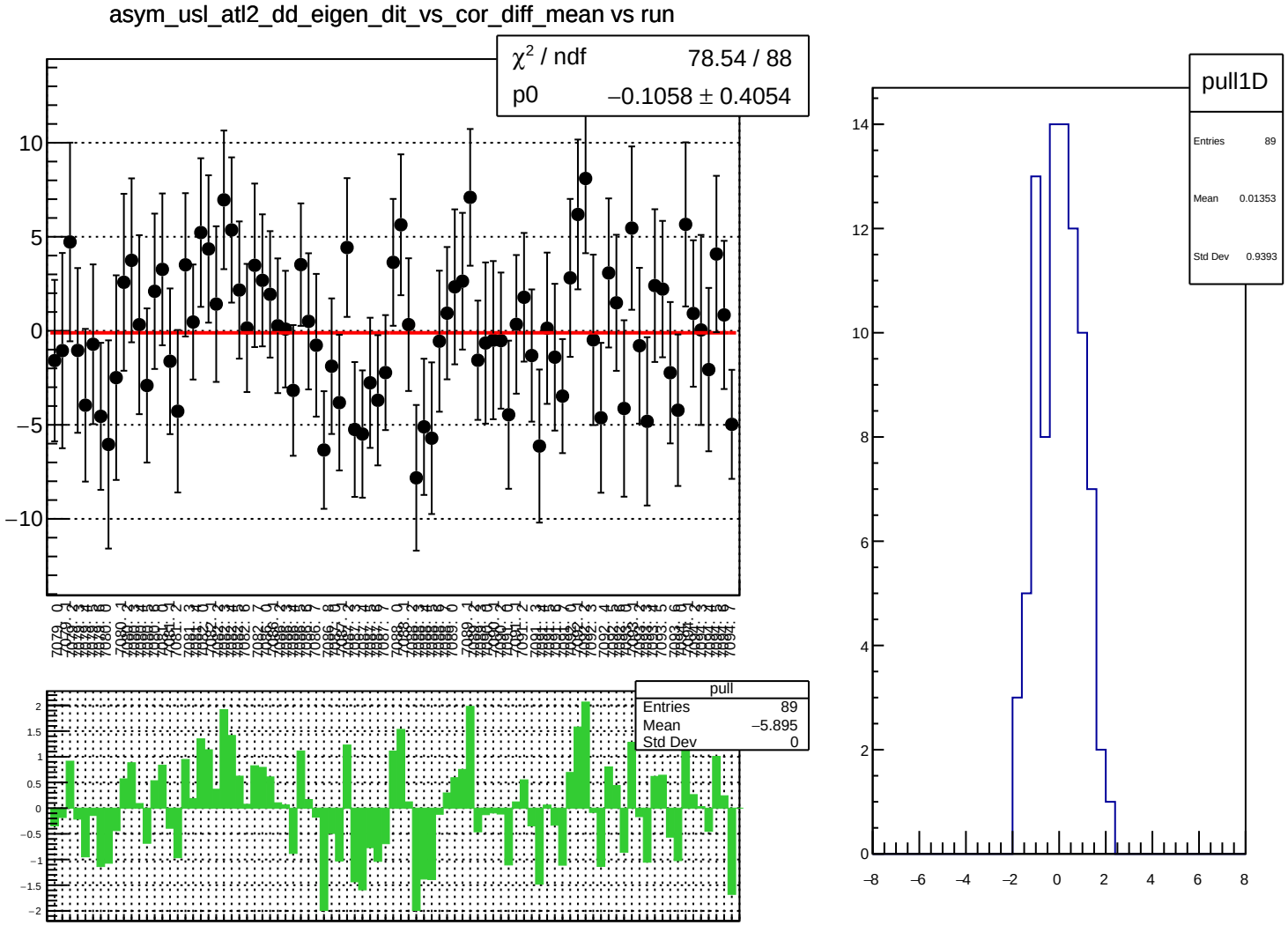

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 88
p0 −0.1059 ± 0.4053
pull
Entries 89
Mean −5.899
Std Dev 0

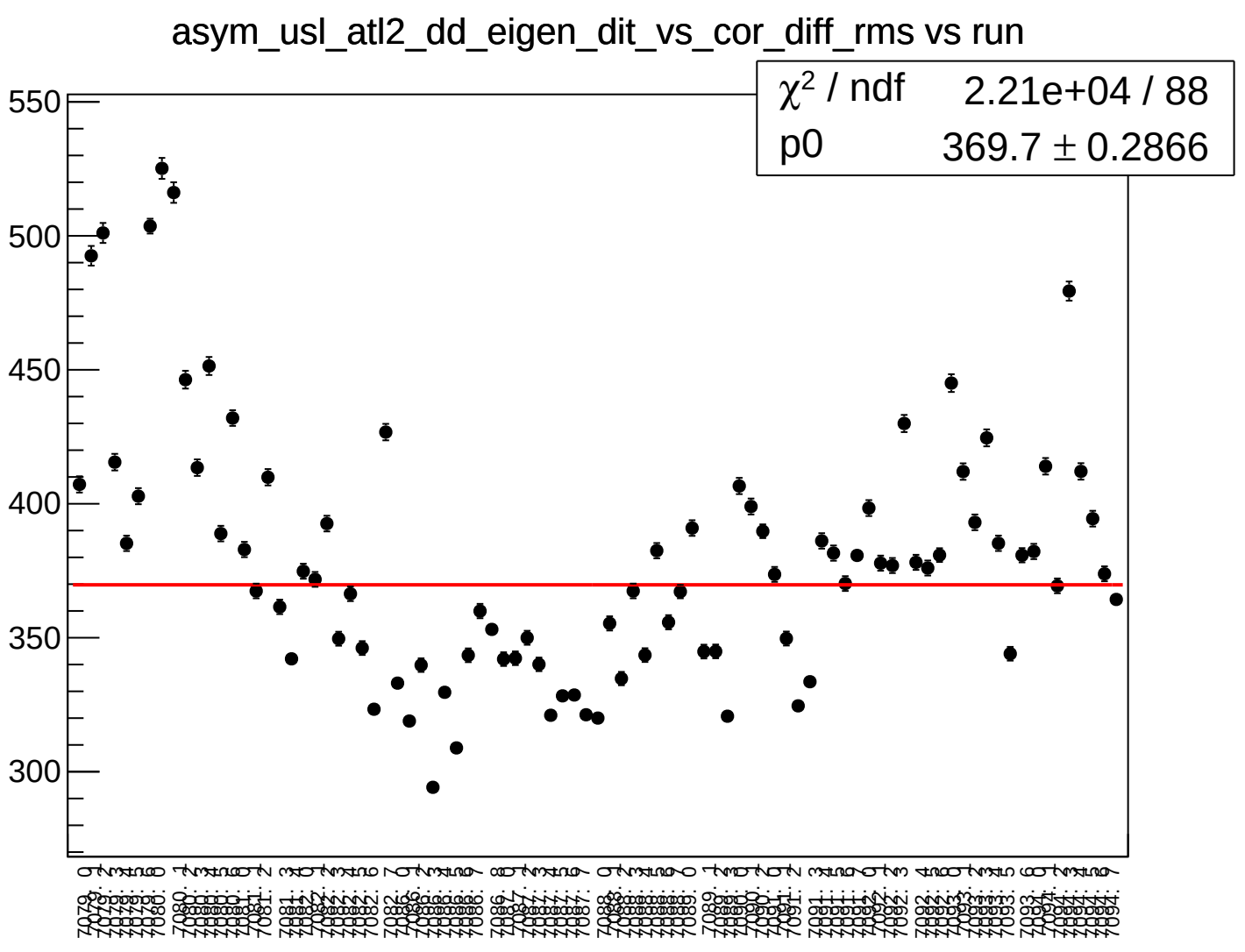

pull1D
Entries 89
Mean 0.01353
Std Dev 0.9393

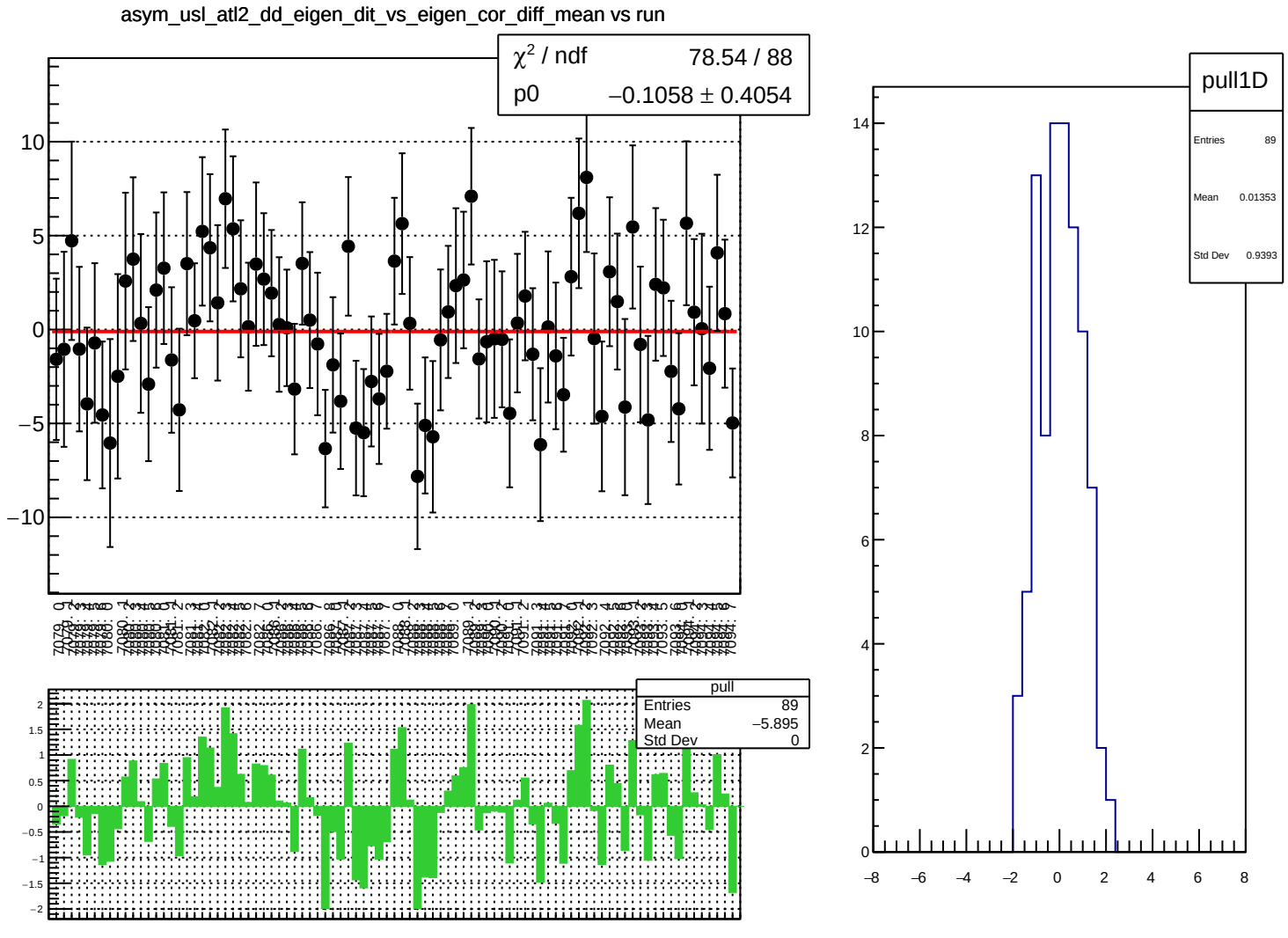

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.21e+04 / 88
p0 369.7 ± 0.2866
550
500
450
400
350
300

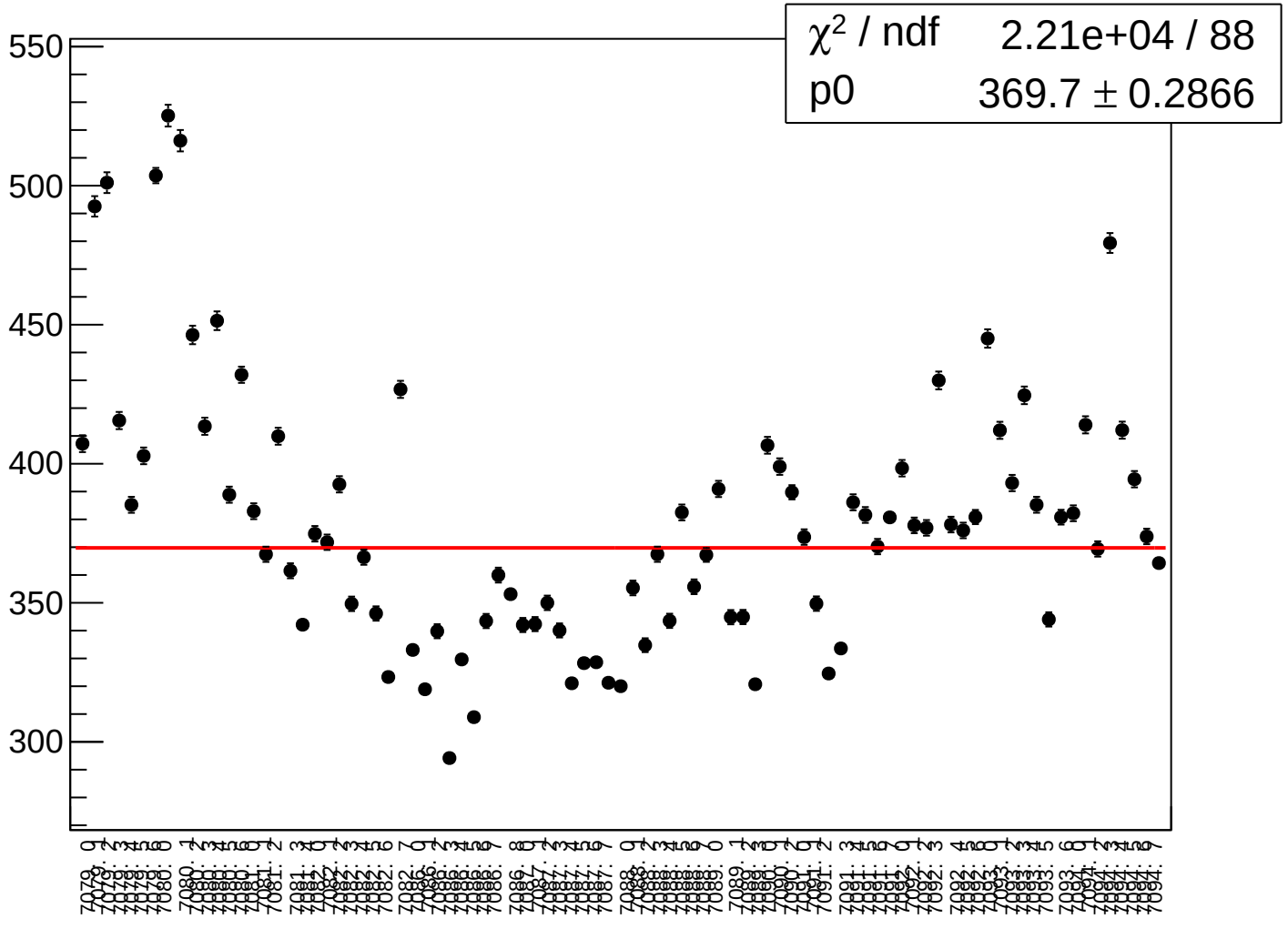

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.33 / 88
p0 8.215e−06 ± 1.237e−05
pull
Entries 89
Mean 257.2
Std Dev 0
pull1D
Entries 89
Mean 0.01336
Std Dev 0.9381

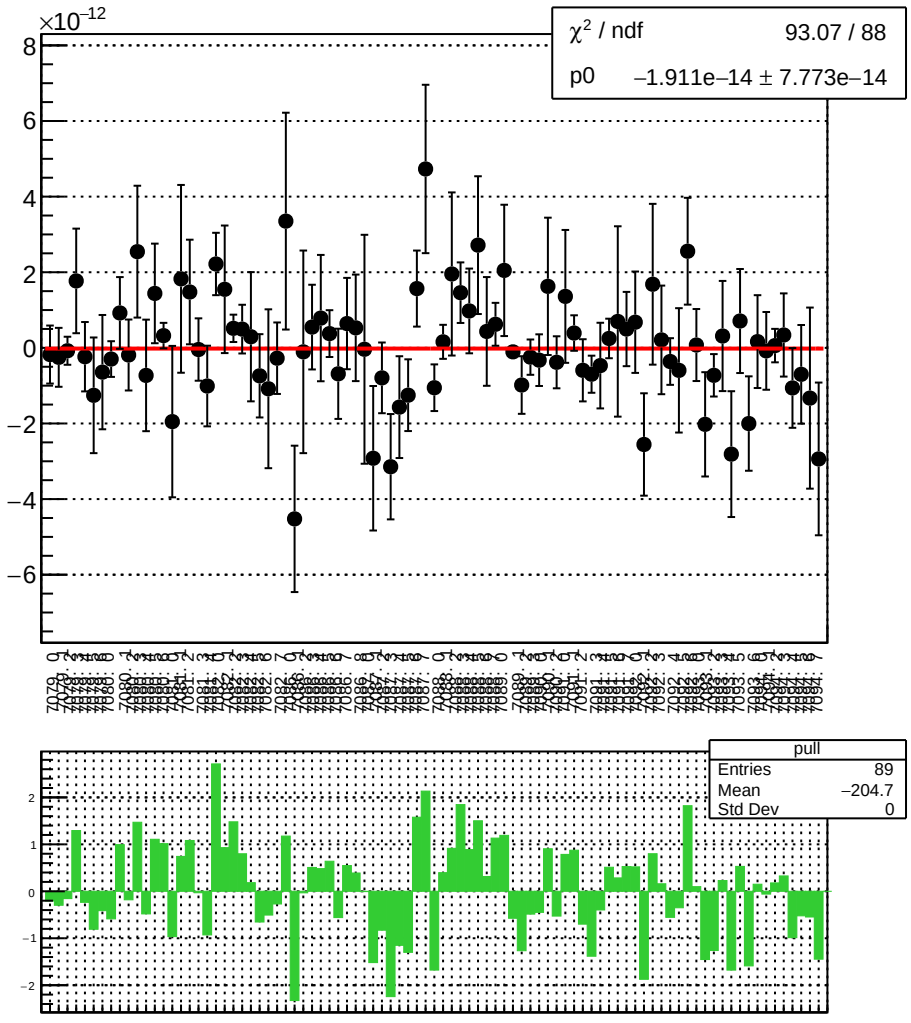

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.501e+05 / 88
p0 0.01048 ± 8.747e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

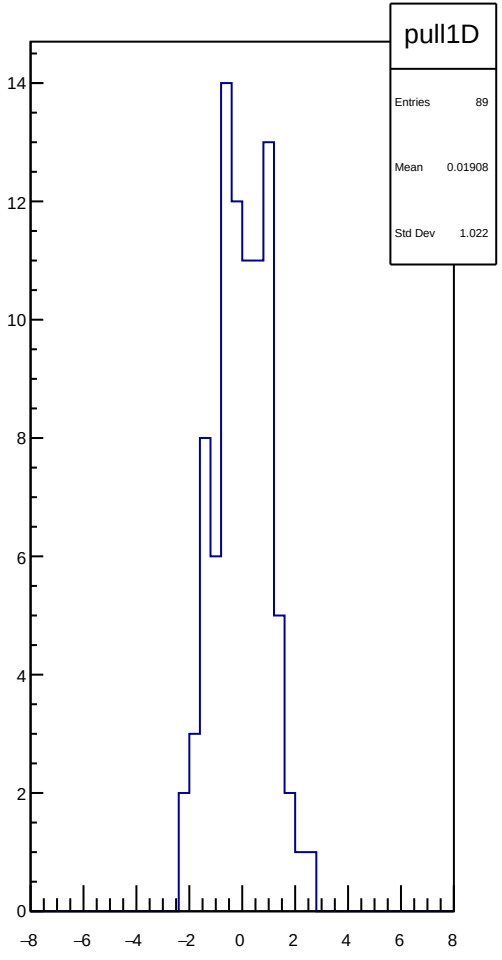

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 88
p0 −0.1058 ± 0.4054
pull
Entries 89
Mean −5.895
Std Dev 0
pull1D
Entries 89
Mean 0.01353
Std Dev 0.9393

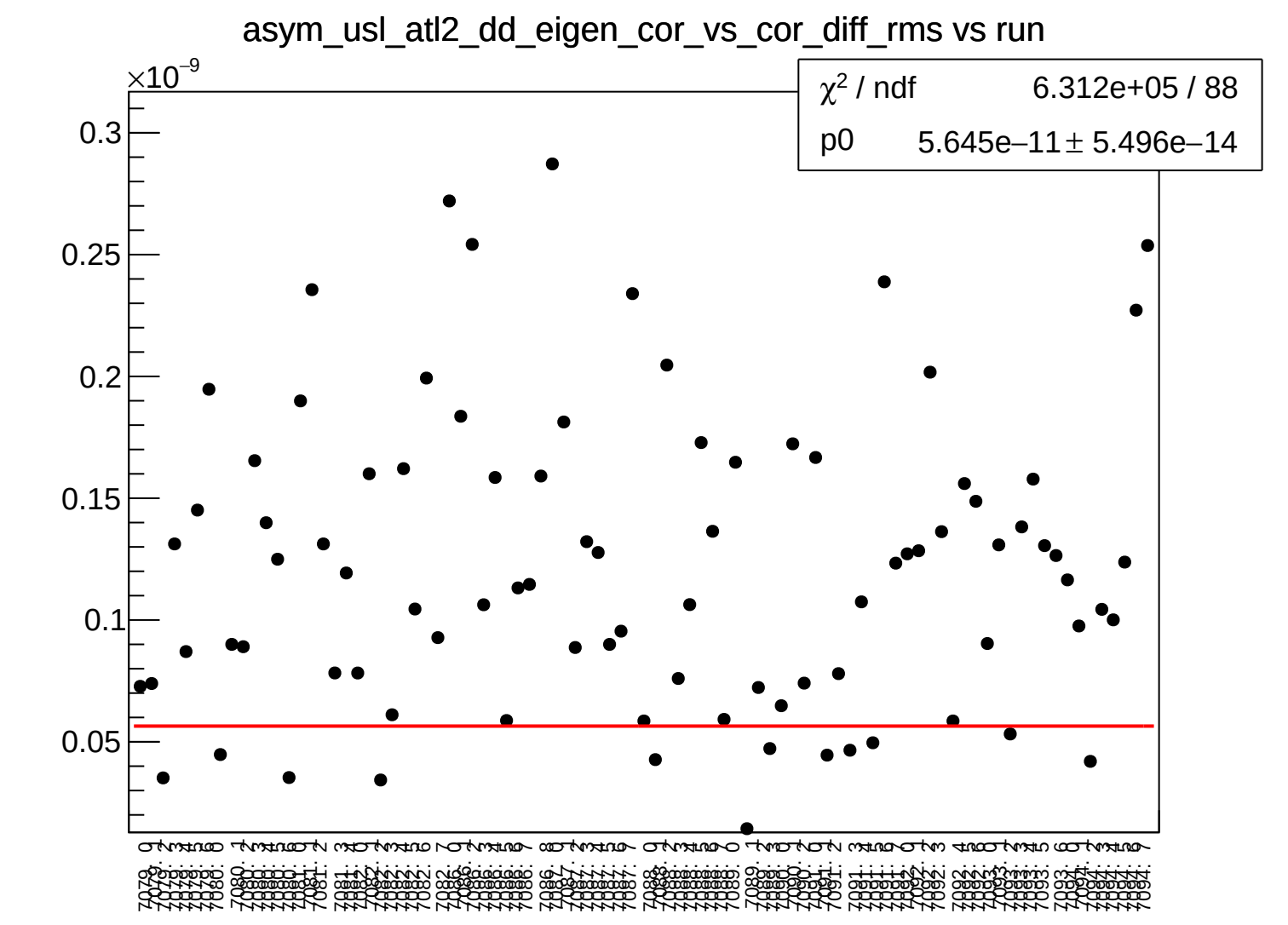

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.21e+04 / 88
p0 369.7 ± 0.2866
550
500
450
400
350
300

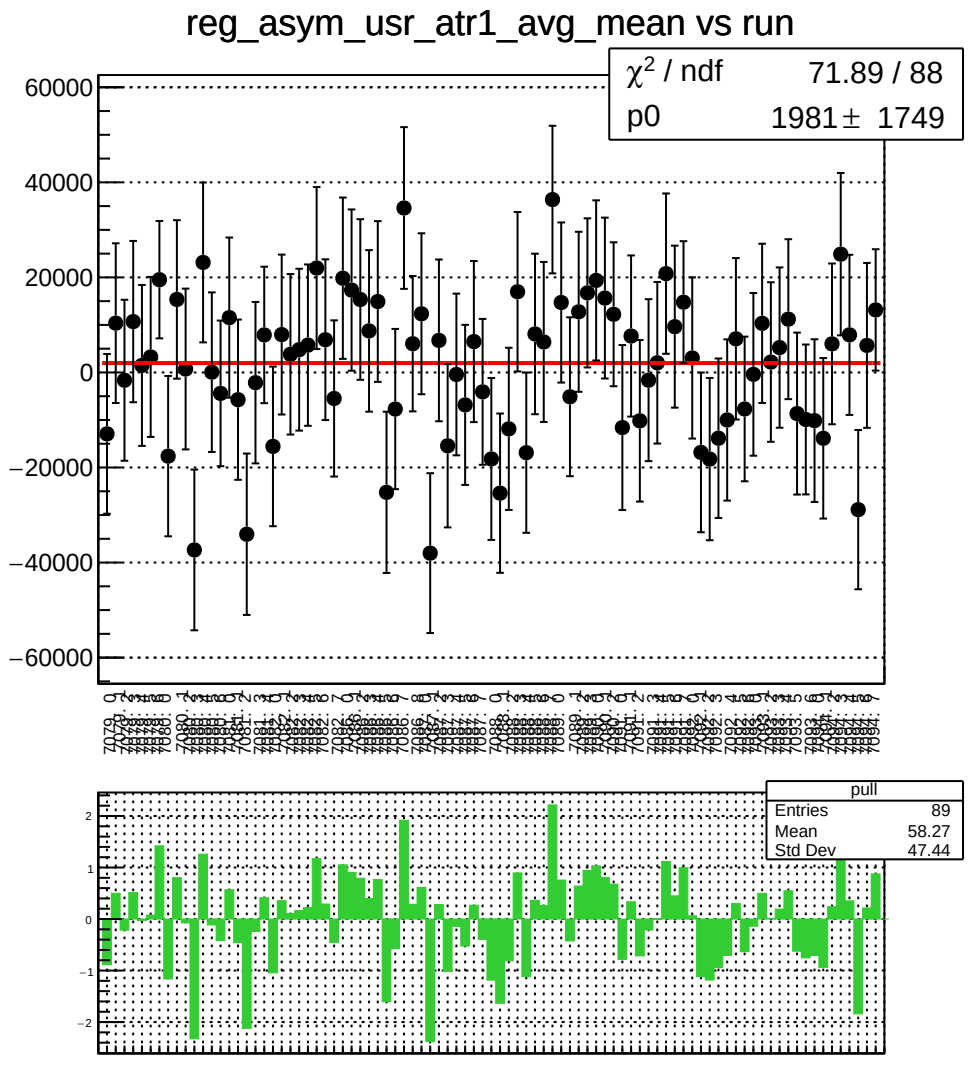

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 88
p0 −0.1058 ± 0.4054
pull
Entries 89
Mean −5.895
Std Dev 0
pull1D
Entries 89
Mean 0.01353
Std Dev 0.9393

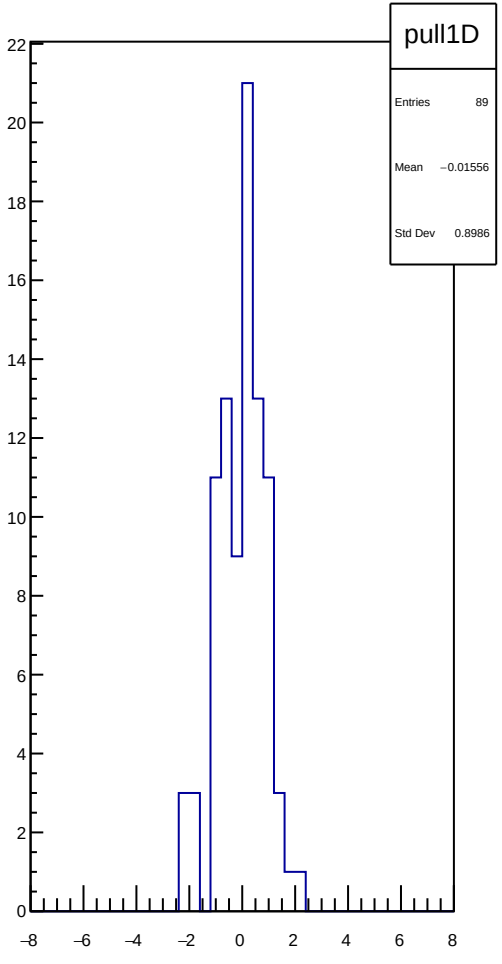

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.21e+04 / 88
p0 369.7 ± 0.2866
550
500
450
400
350
300

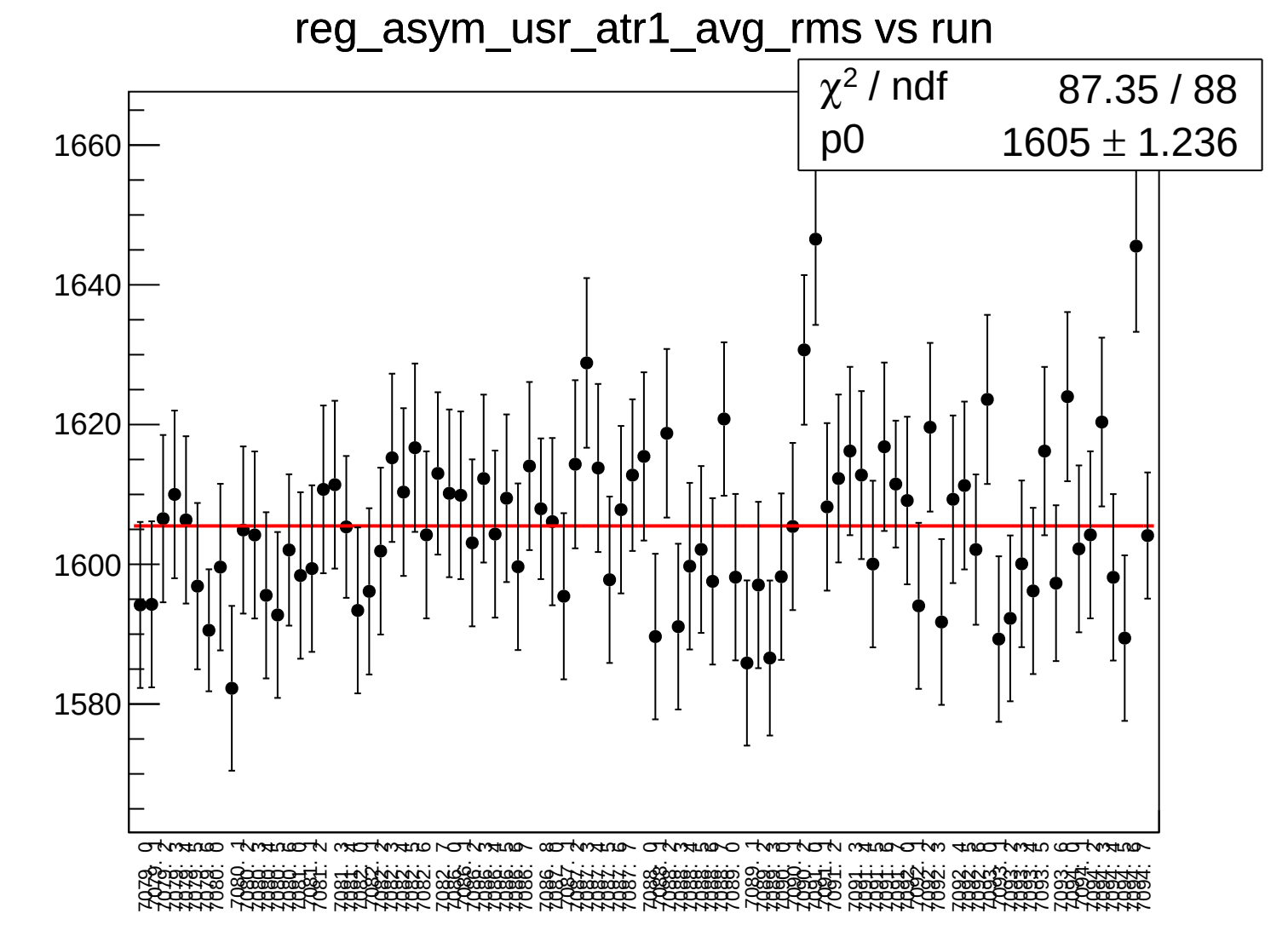

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.07 / 88
p0 −1.911e−14 ± 7.773e−14
pull
Entries 89
Mean −204.7
Std Dev 0

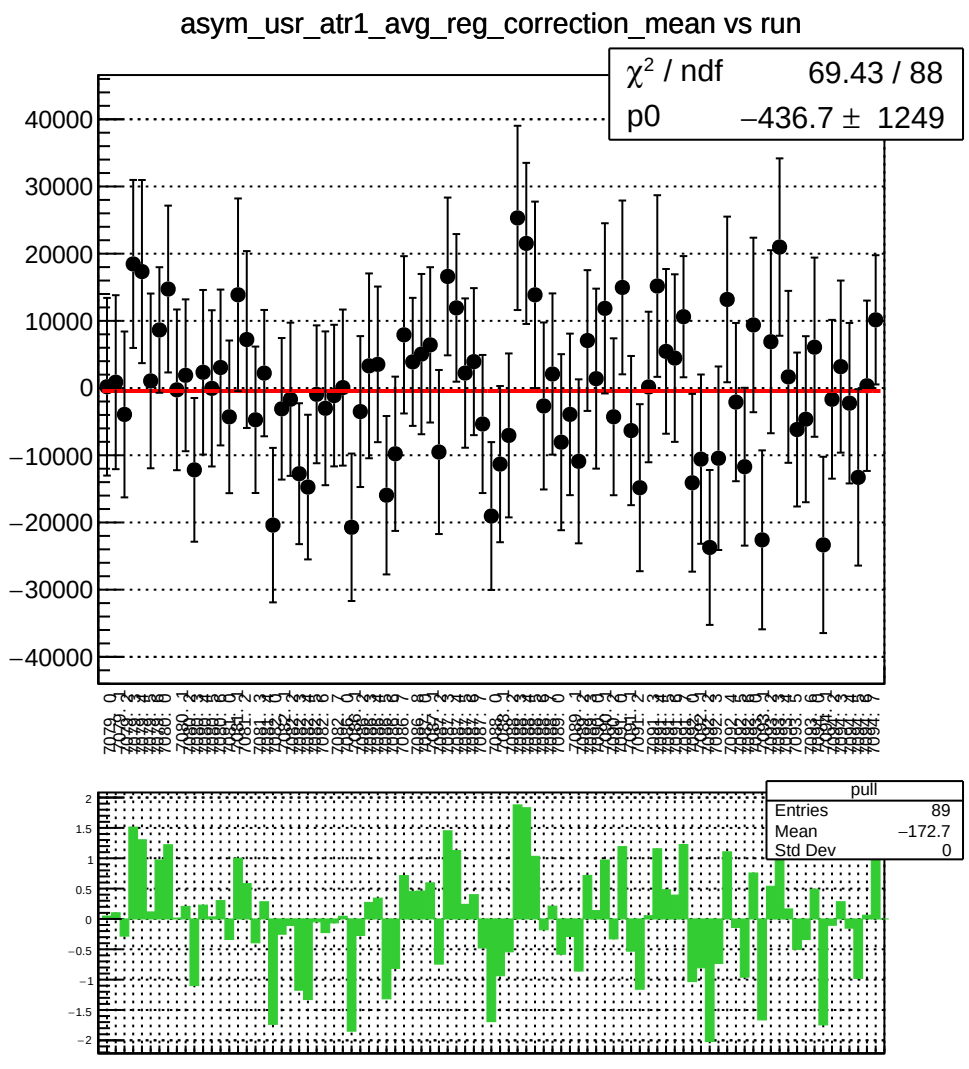

pull1D
Entries 89
Mean 0.01908
Std Dev 1.022

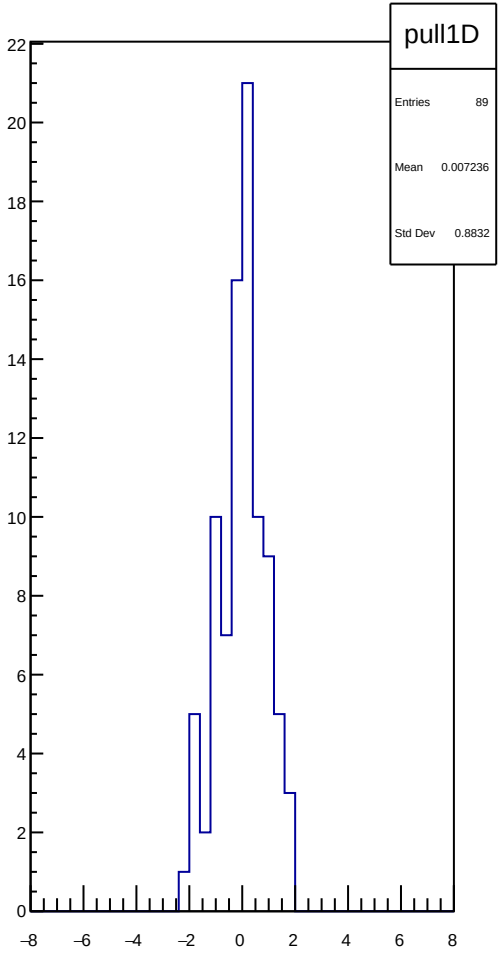

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.312e+05 / 88
p0 5.645e−11 ± 5.496e−14
0.3
0.25
0.2
0.15
0.1
0.05

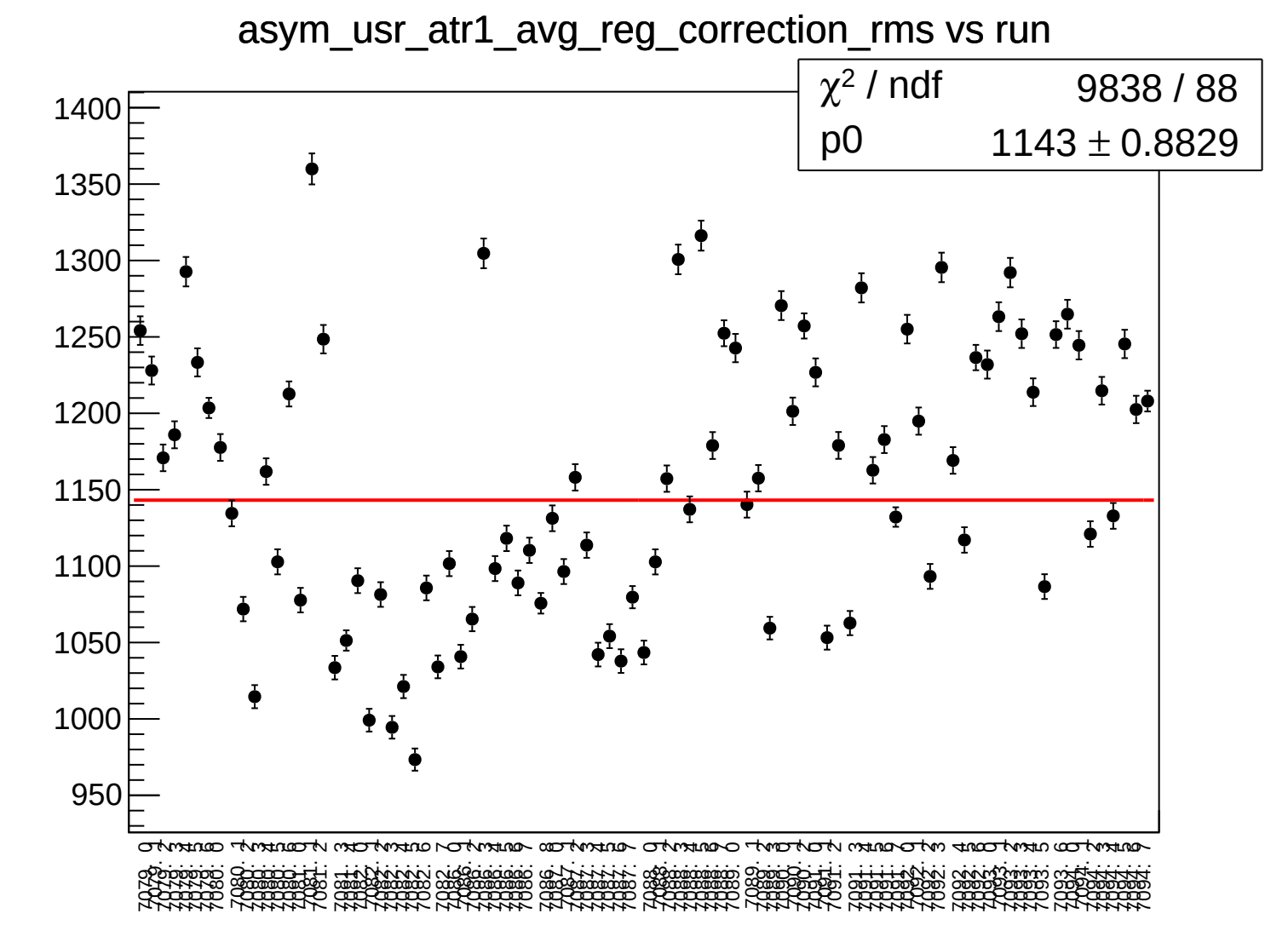

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 71.89 / 88
p0 1981 ± 1749
pull
Entries 89
Mean 58.27
Std Dev 47.44

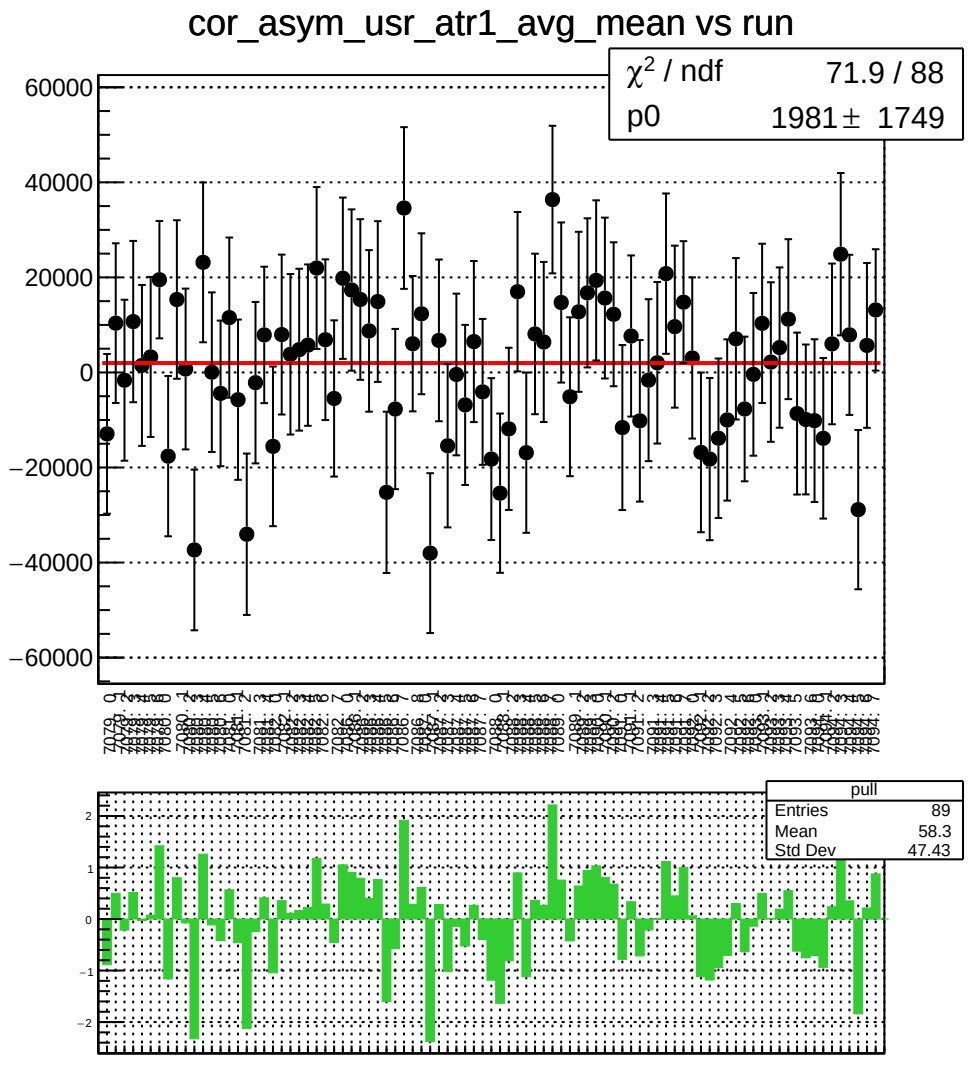

pull1D
Entries 89
Mean −0.01556
Std Dev 0.8986

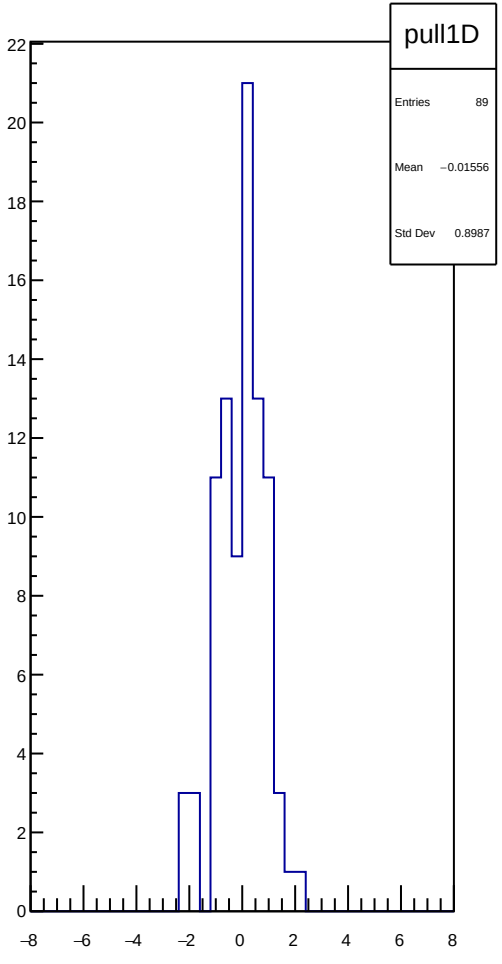

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 87.35 / 88
p0 1605 ± 1.236
1660
1640
1620
1600
1580

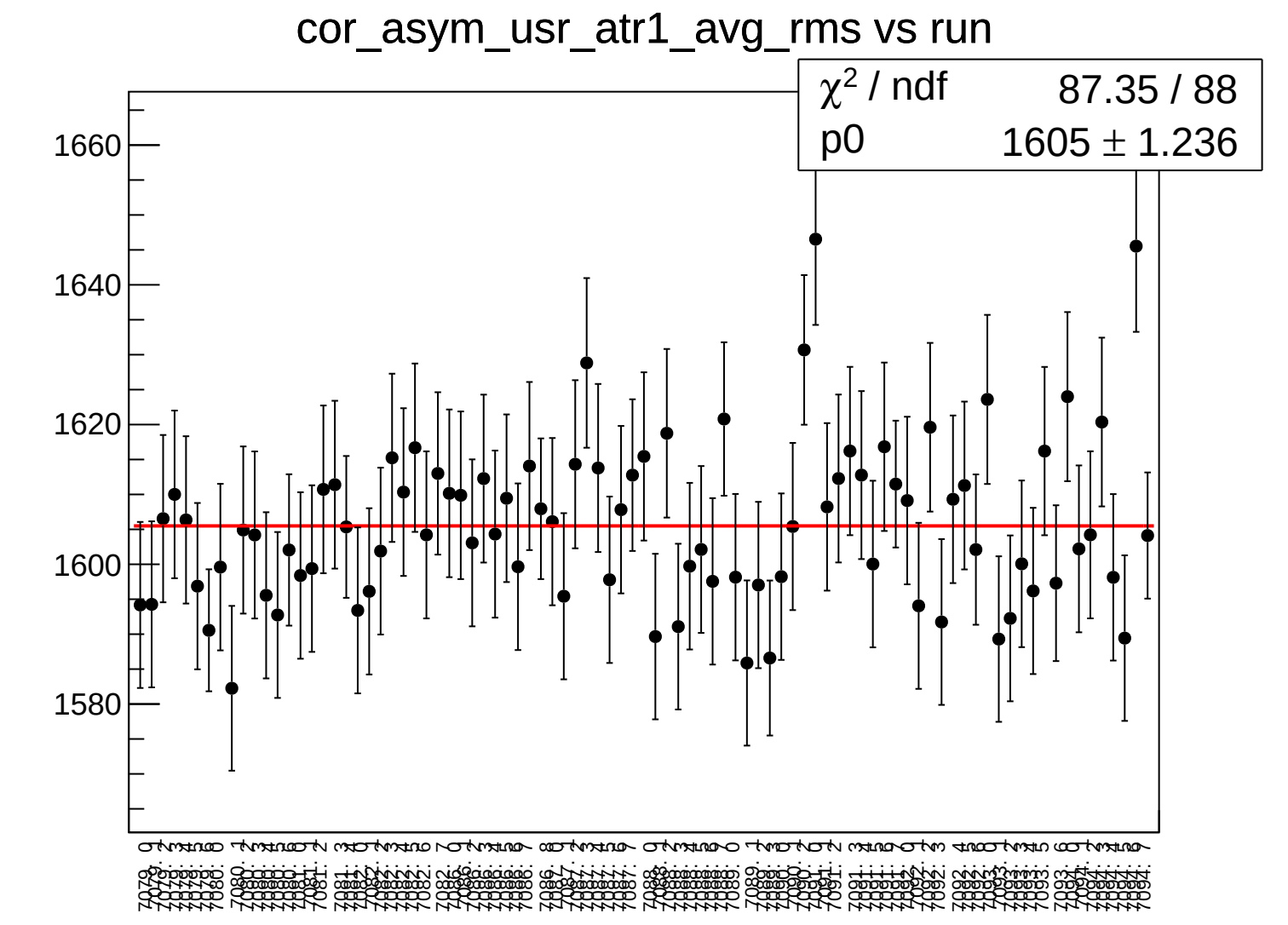

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 69.43 / 88
p0 −436.7 ± 1249
pull
Entries 89
Mean −172.7
Std Dev 0

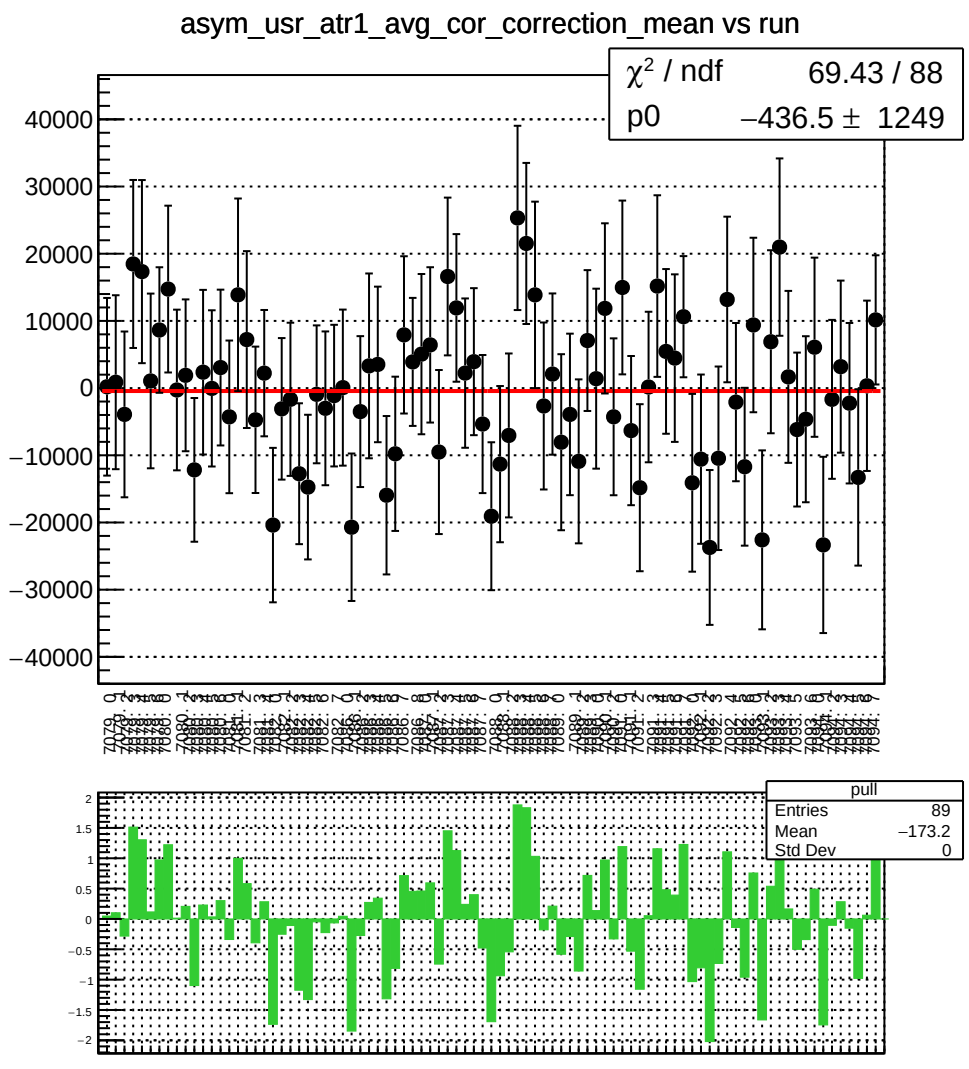

pull1D
Entries 89
Mean 0.007236
Std Dev 0.8832

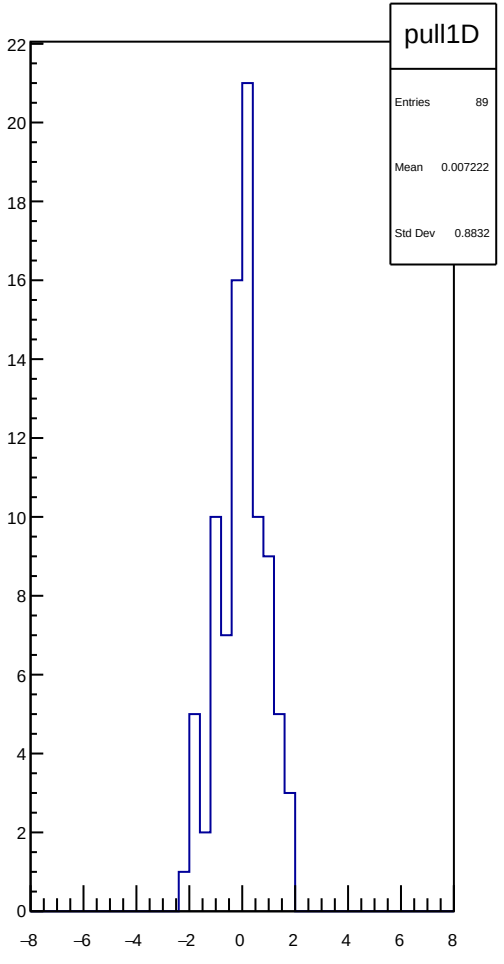

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 9838 / 88
p0 1143 ± 0.8829
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

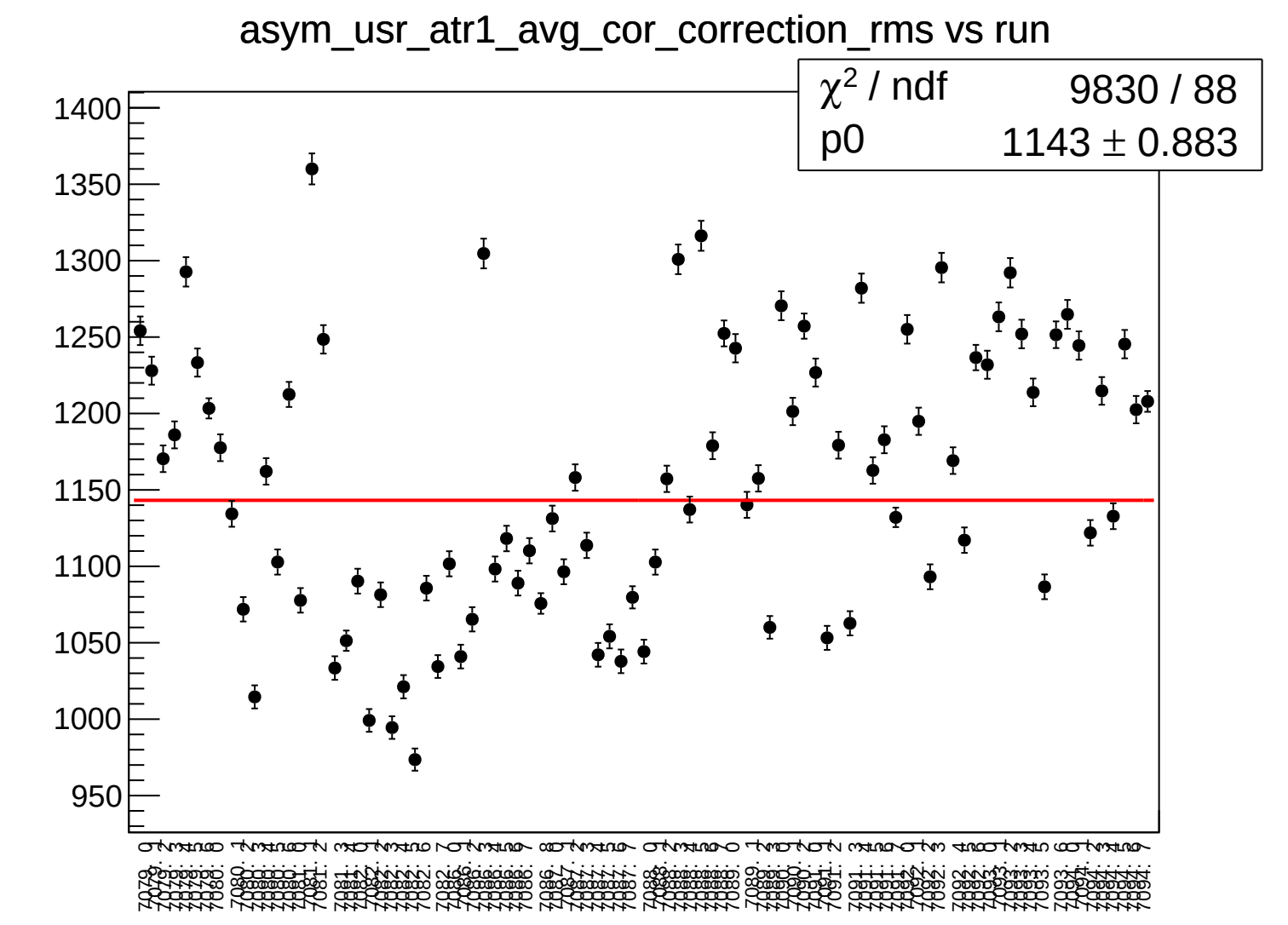

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 71.9 / 88
p0 1981 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 58.3
Std Dev 47.43
2
1
0
−1
−2

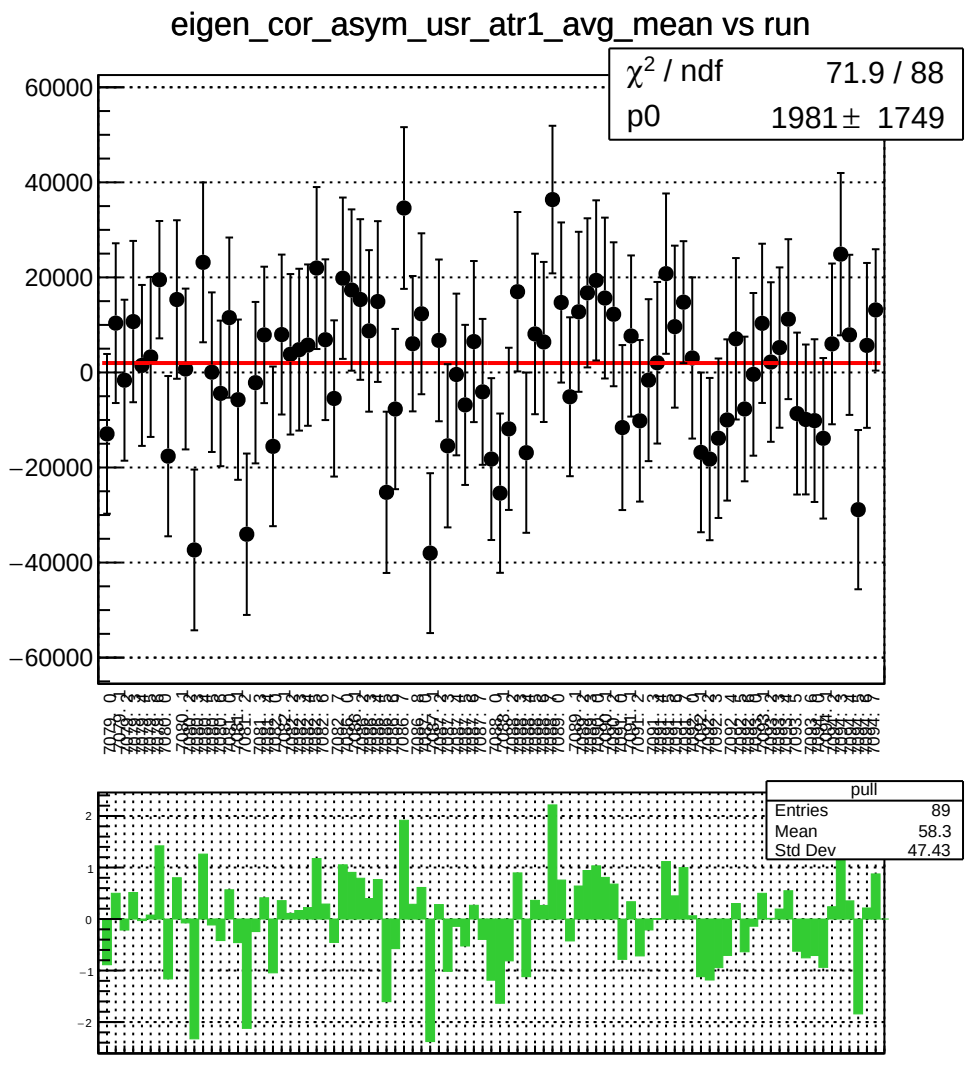

pull1D
Entries 89
Mean −0.01556
Std Dev 0.8987
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

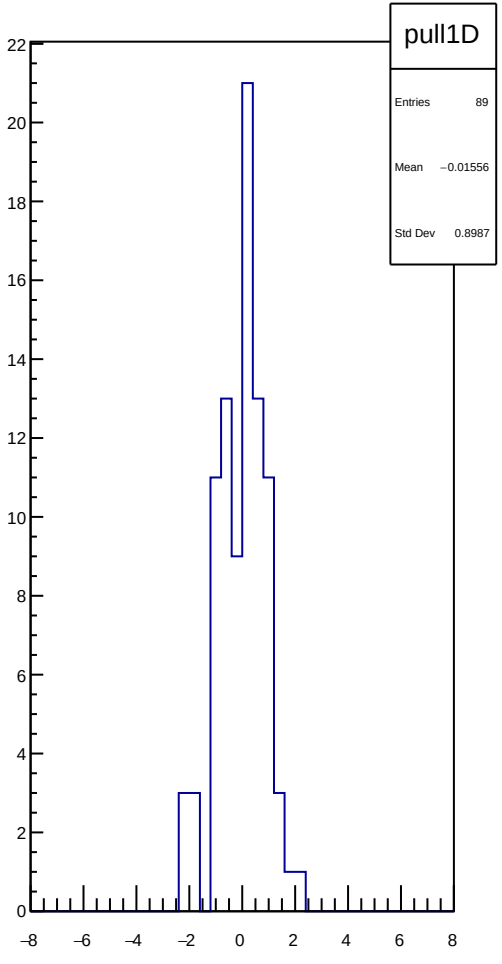

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 87.35 / 88
p0 1605 ± 1.236
1660
1640
1620
1600
1580

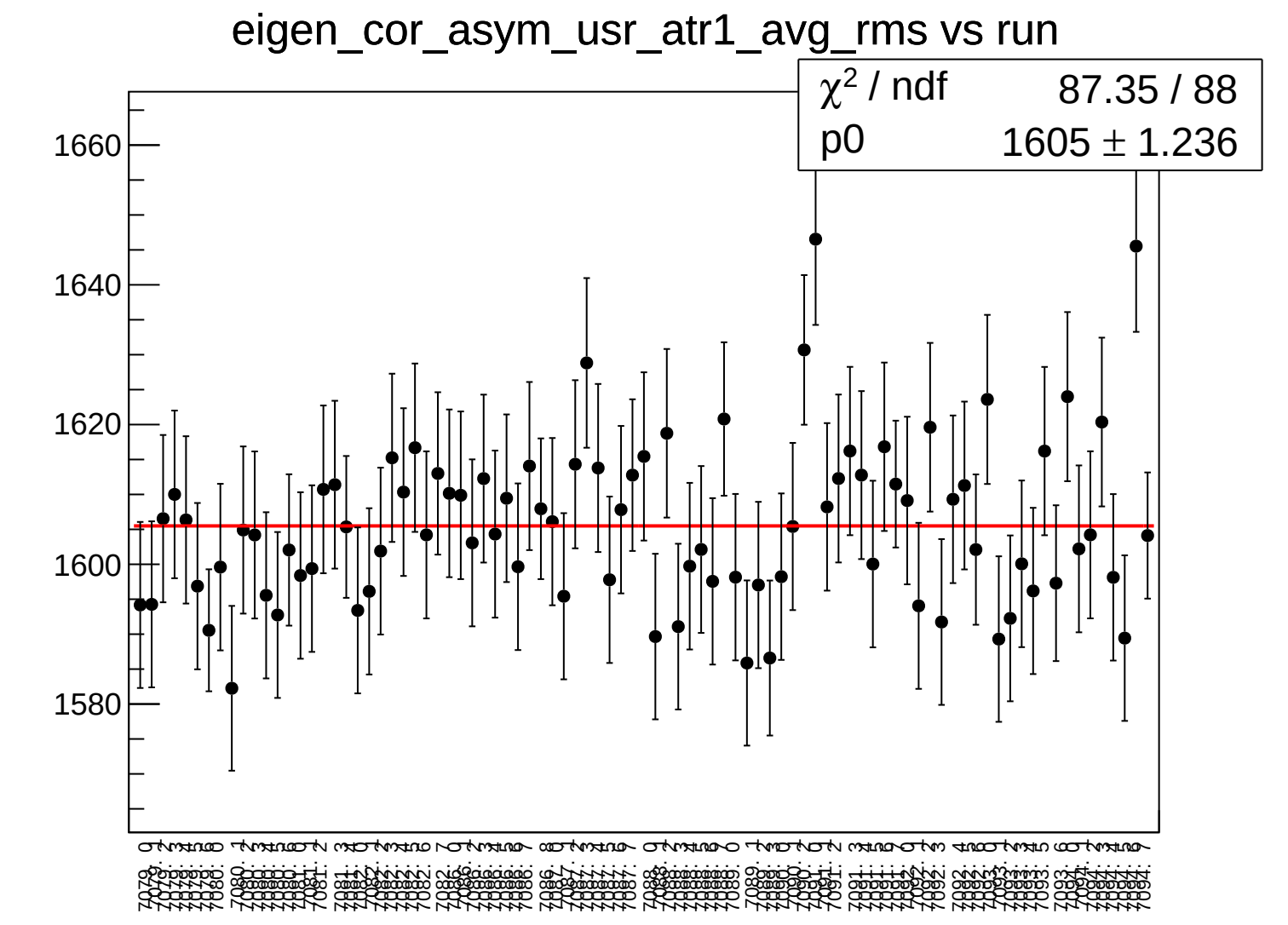

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 69.43 / 88
p0 −436.5 ± 1249
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −173.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

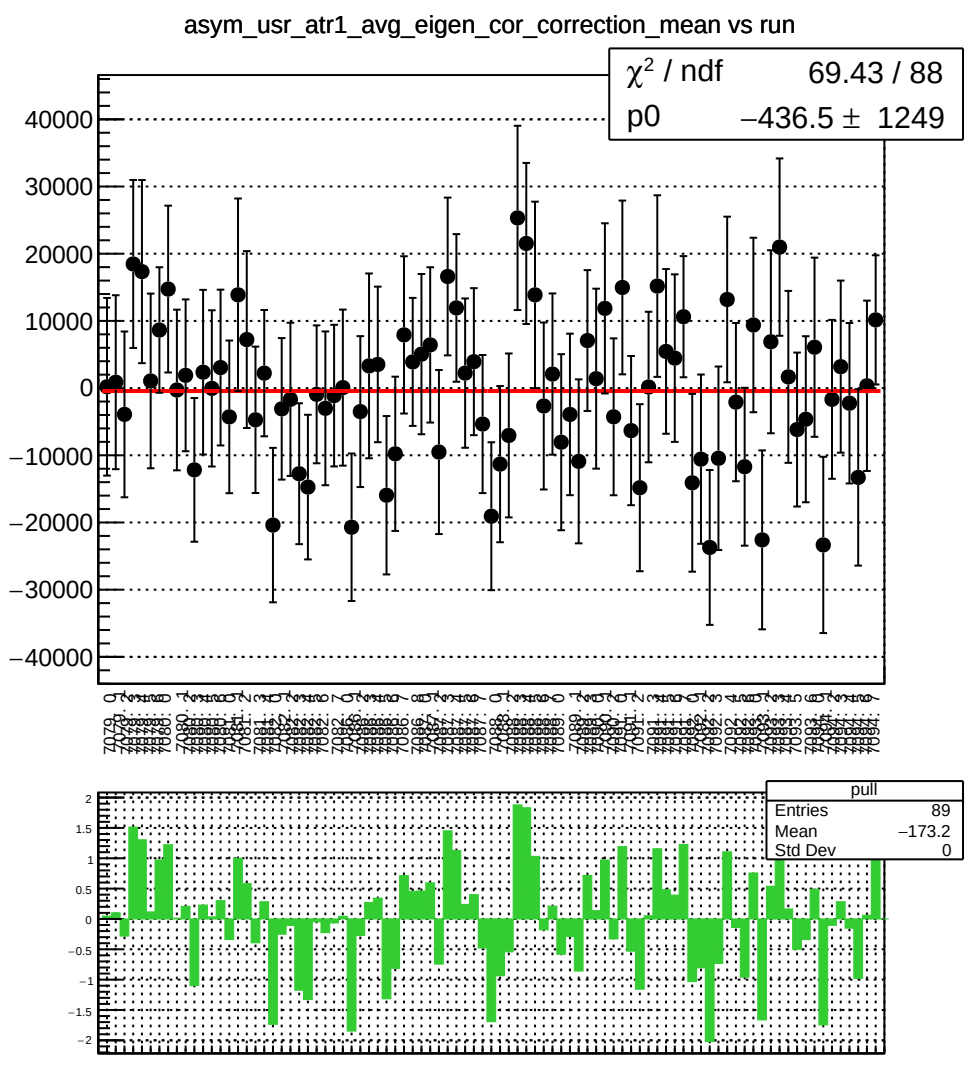

pull1D
Entries 89
Mean 0.007222
Std Dev 0.8832
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

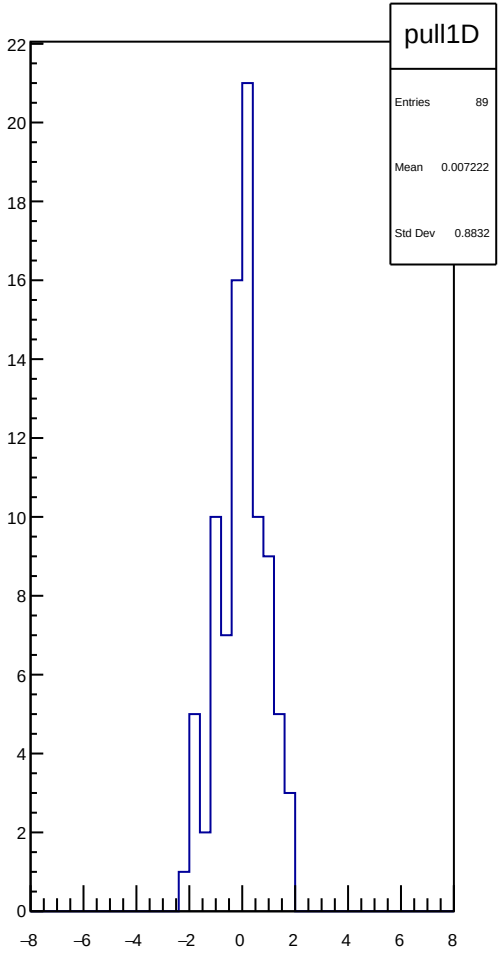

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 9830 / 88
p0 1143 ± 0.883
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

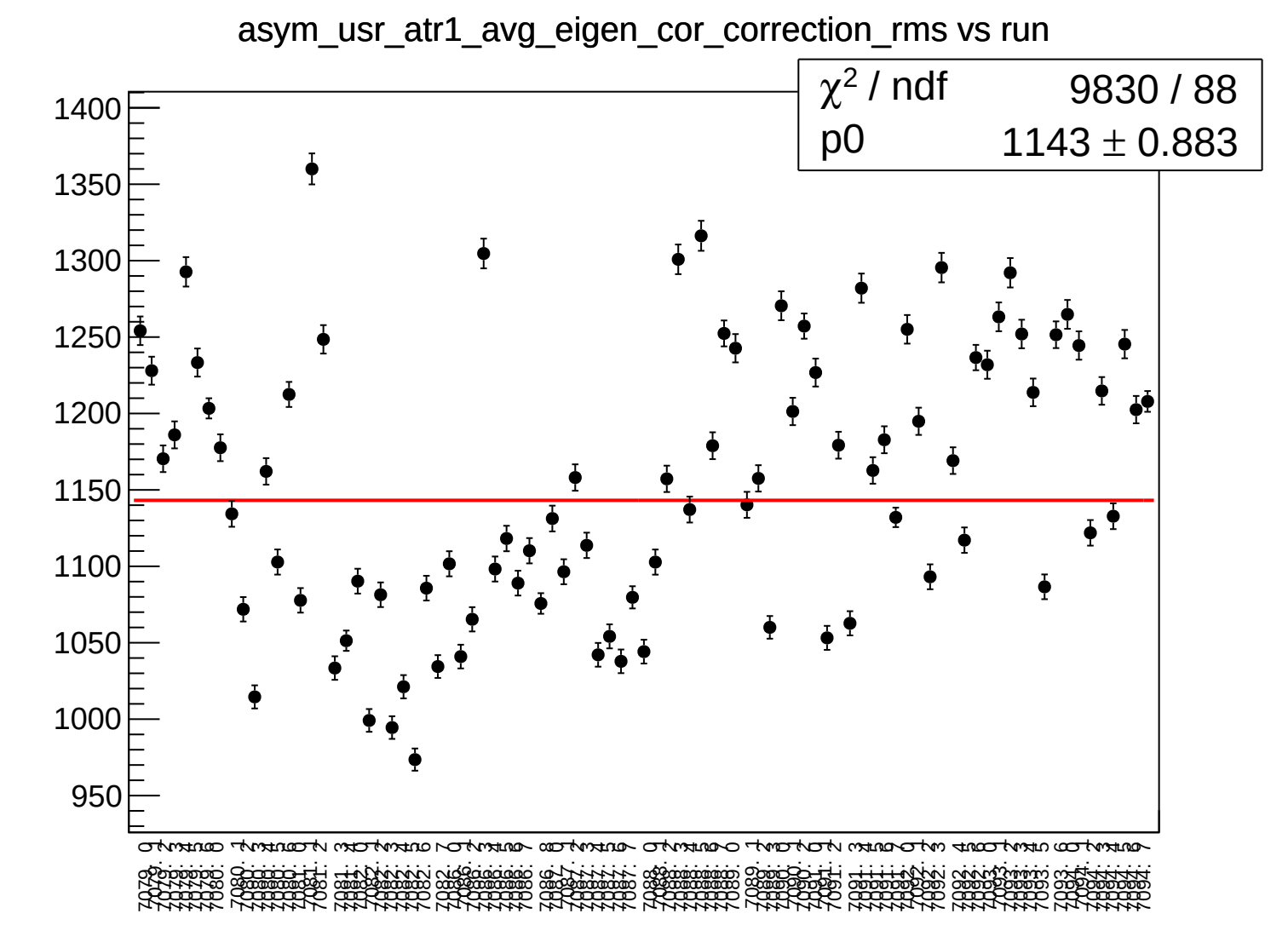

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 71.9 / 88
p0 1981 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 58.3
Std Dev 47.43
2
1
0
−1
−2

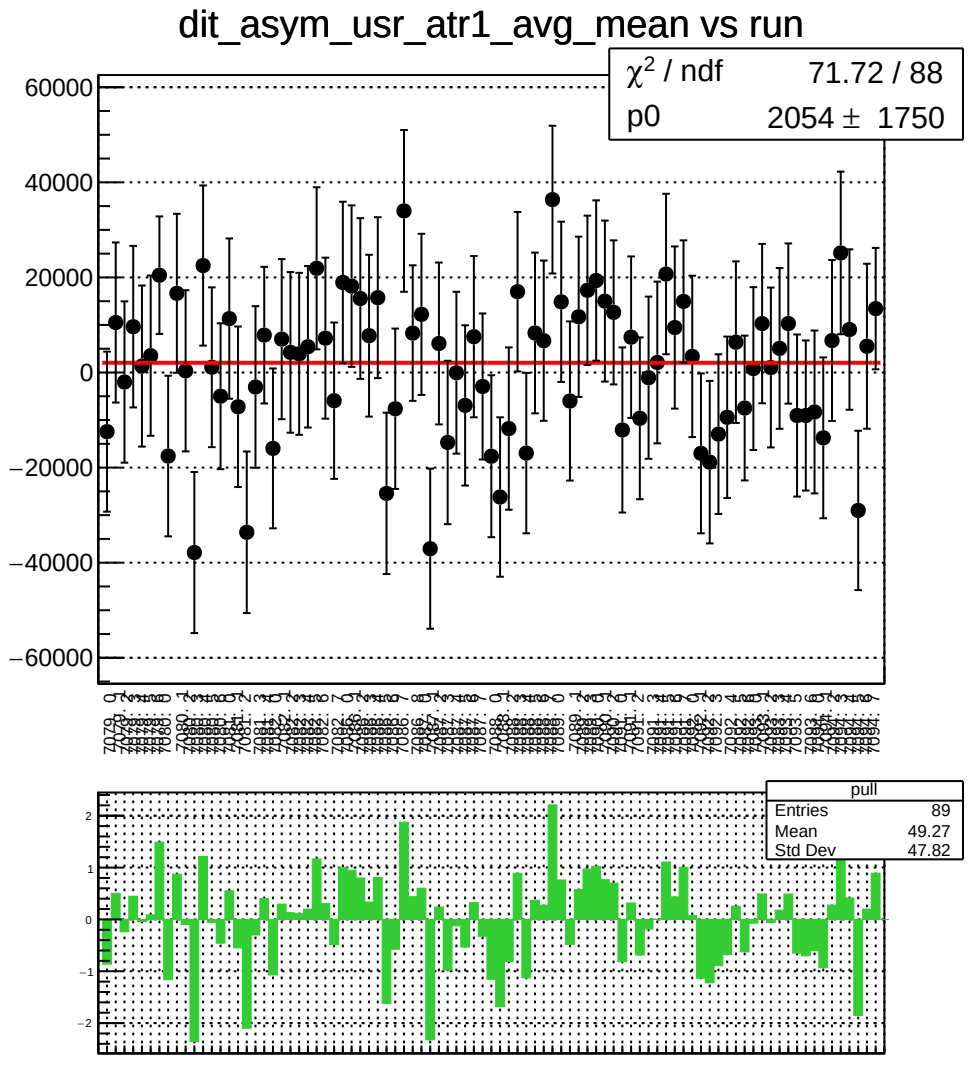

pull1D
Entries 89
Mean −0.01556
Std Dev 0.8987
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

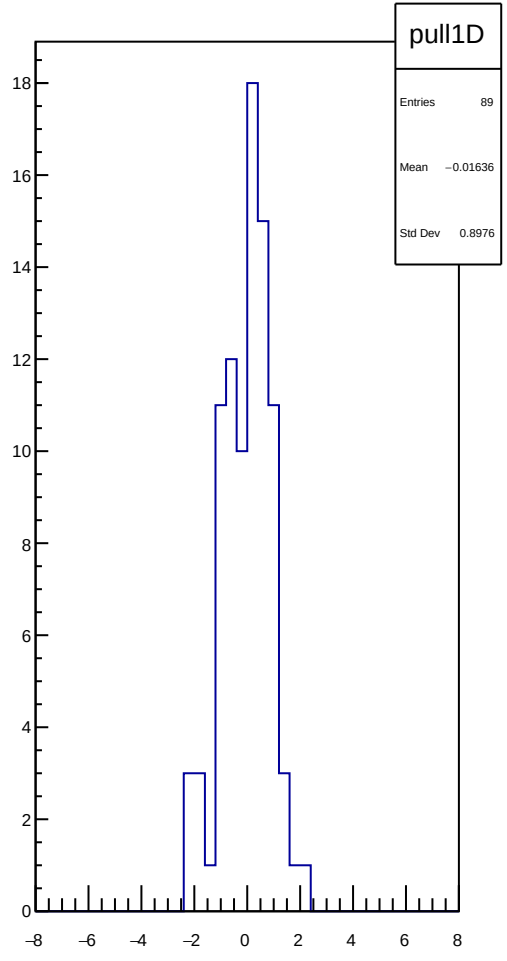

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 87.35 / 88
p0 1605 ± 1.236
1660
1640
1620
1600
1580

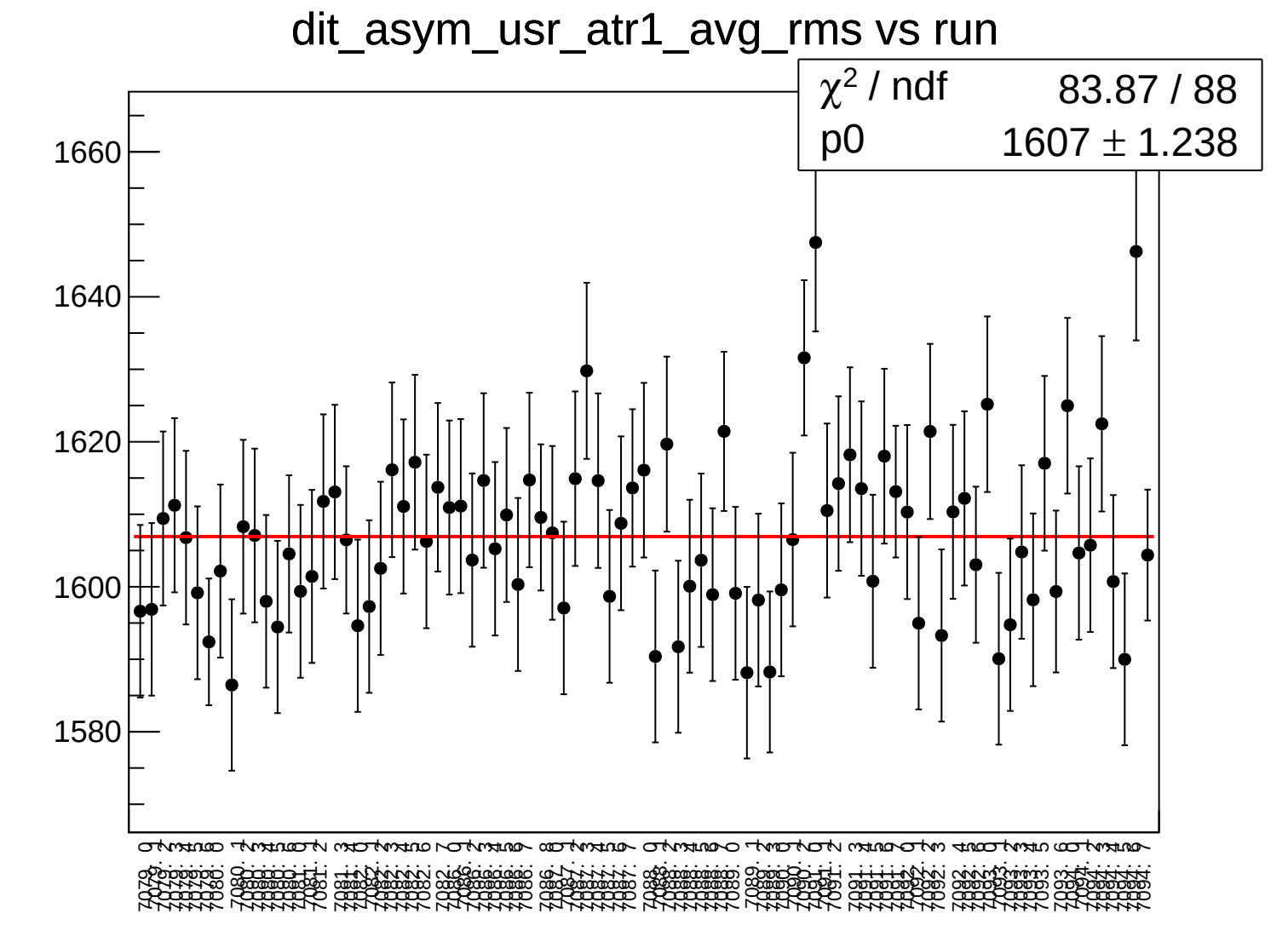

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.43 / 88
p0 −436.5 ± 1249
pull
Entries 89
Mean −173.2
Std Dev 0

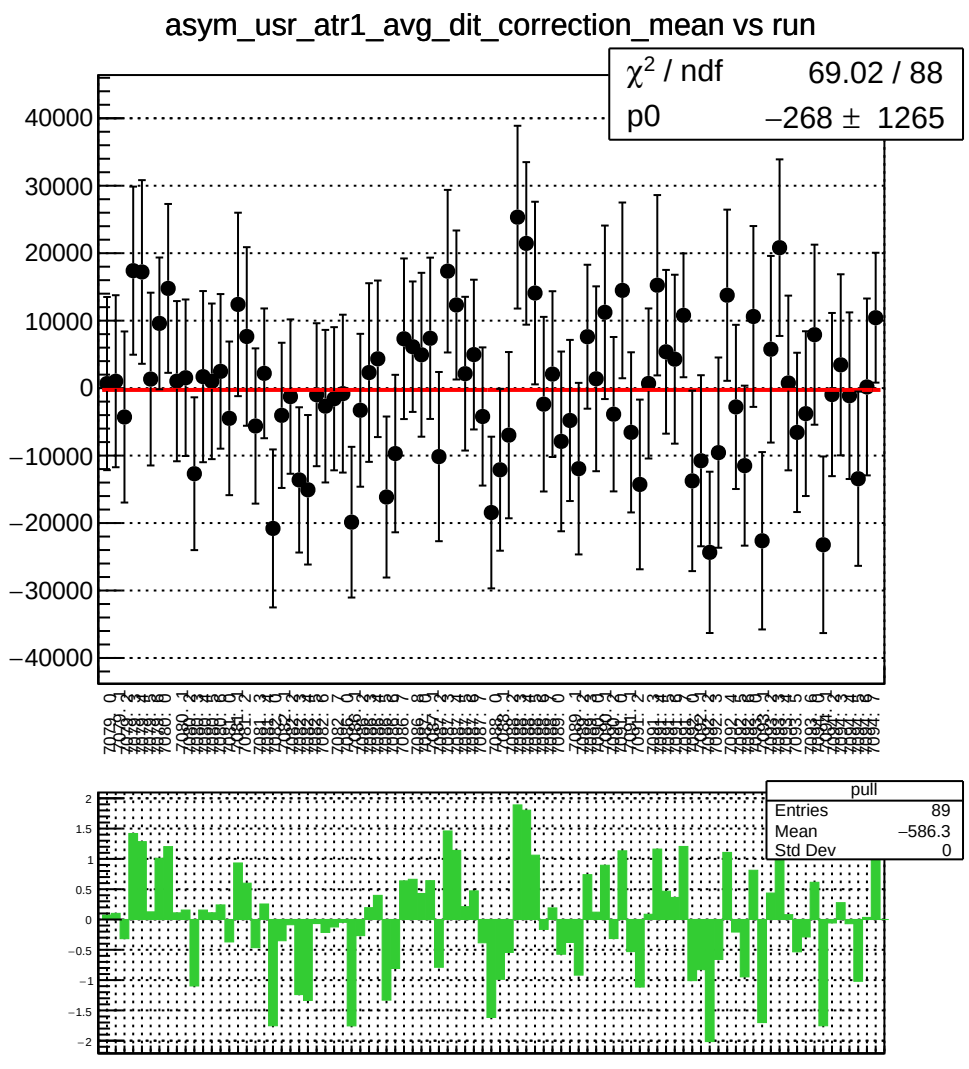

pull1D
Entries 89
Mean 0.007222
Std Dev 0.8832

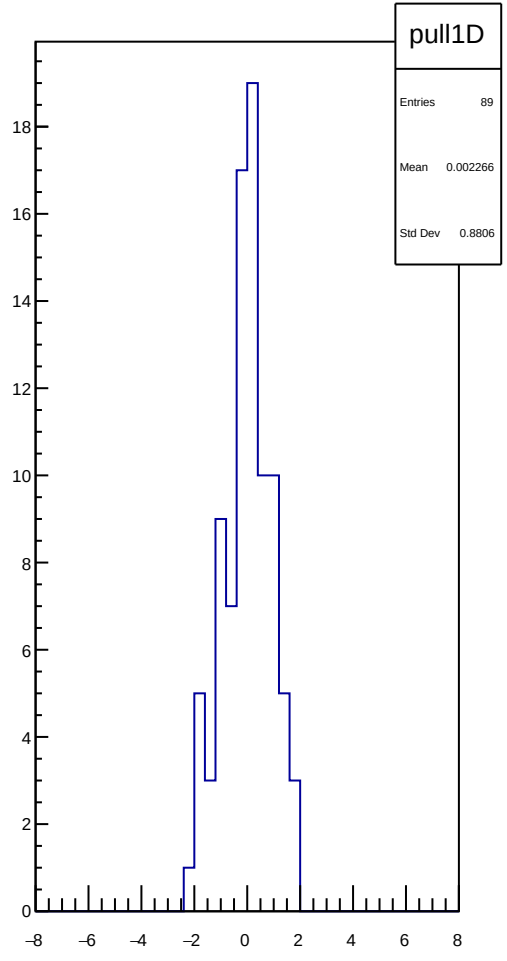

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9830 / 88
p0 1143 ± 0.883
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

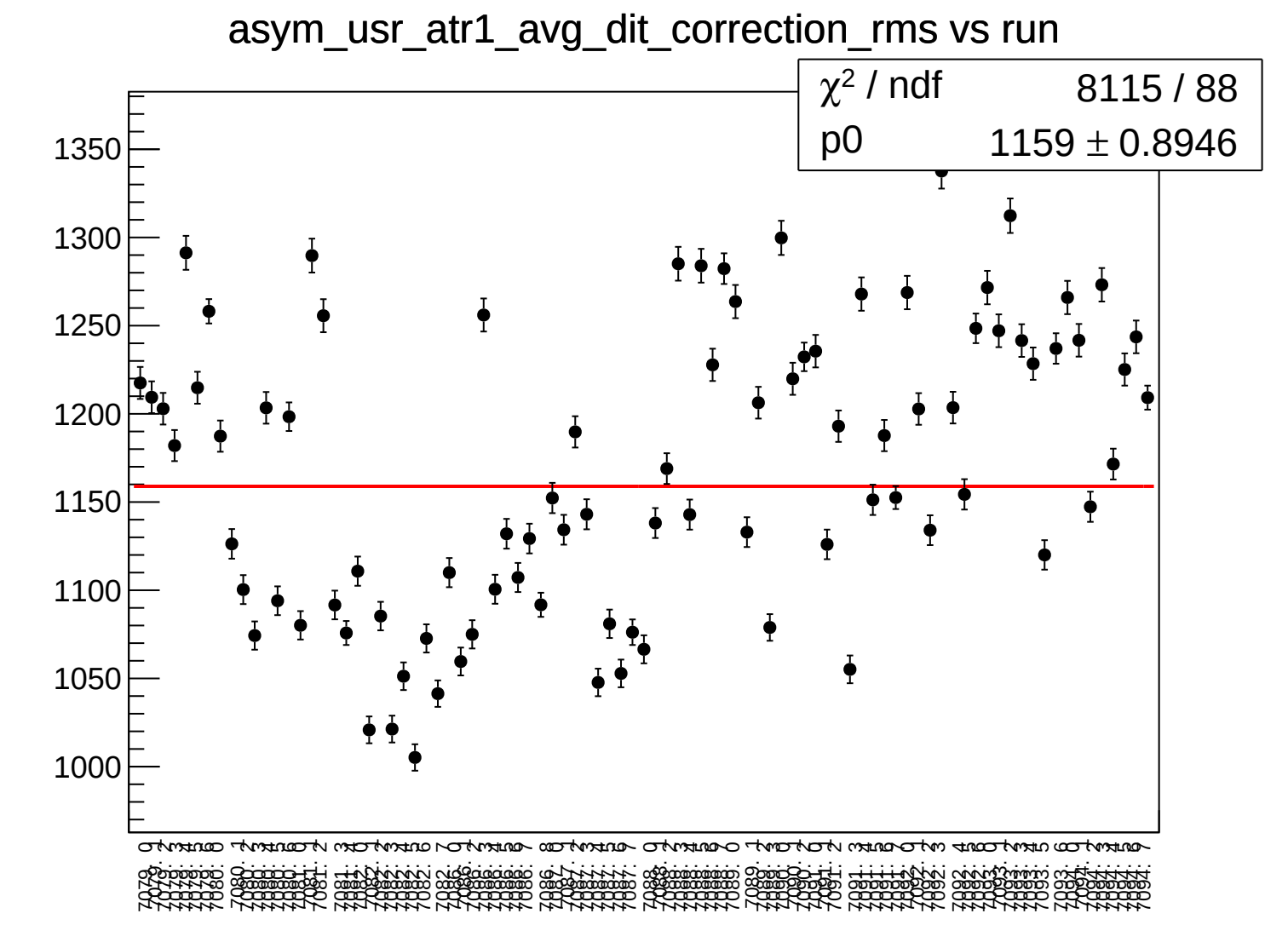

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 71.72 / 88
p0 2054 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 49.27
Std Dev 47.82
2
1
0
−1
−2

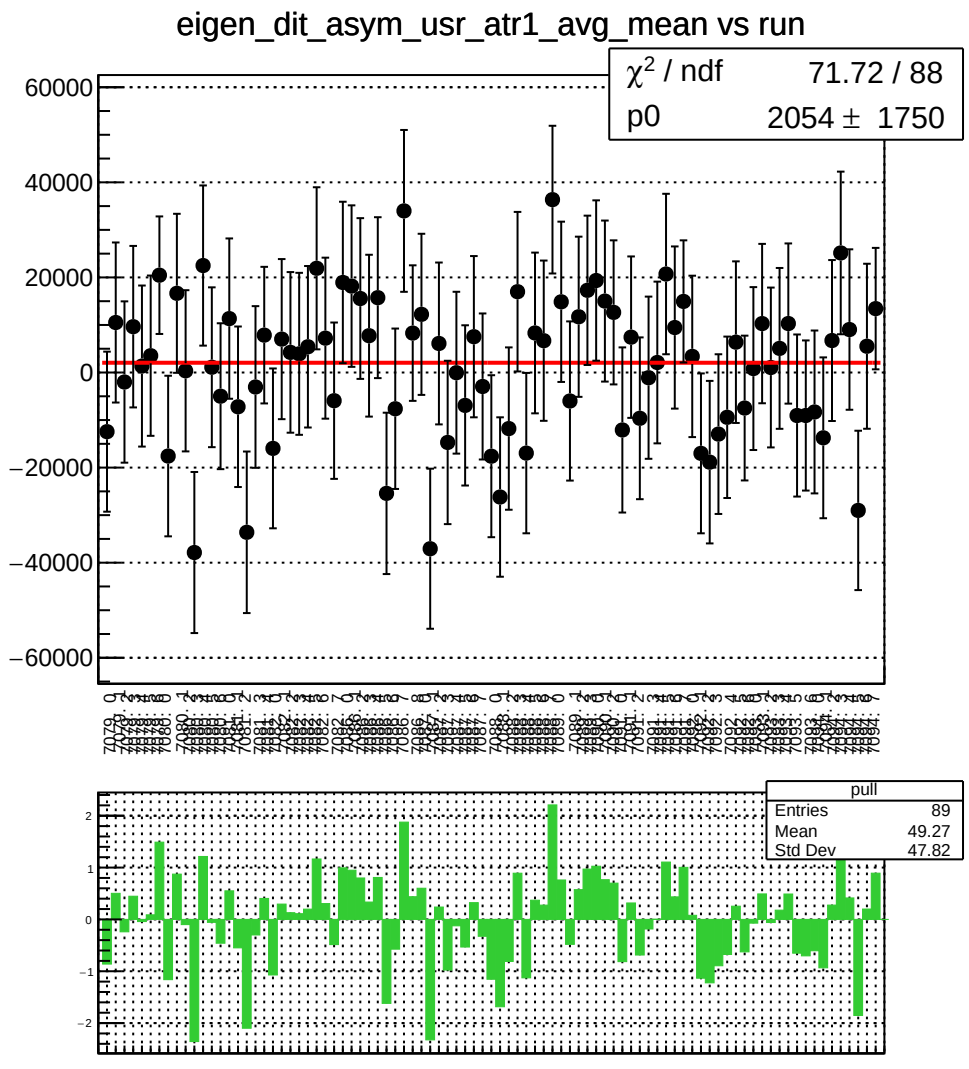

pull1D
Entries 89
Mean −0.01636
Std Dev 0.8976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

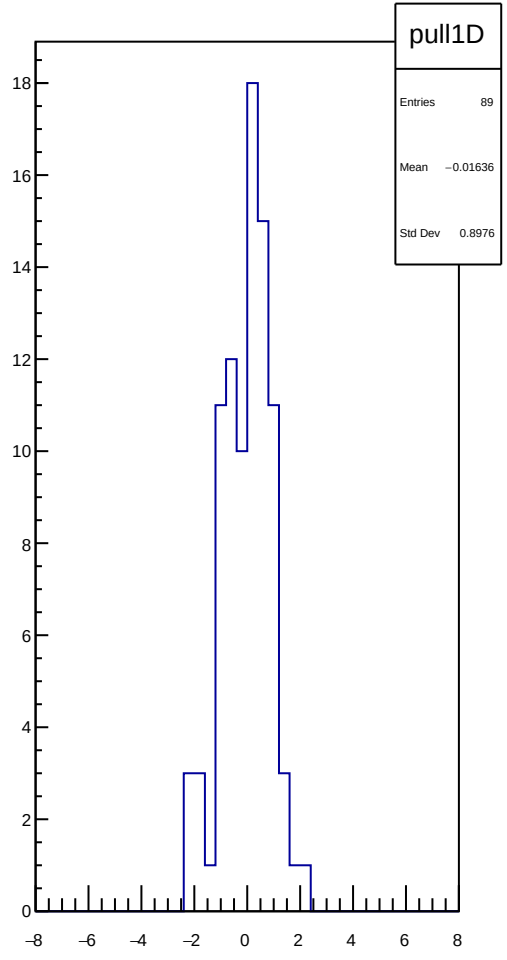

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 83.87 / 88
p0 1607 ± 1.238
1660
1640
1620
1600
1580

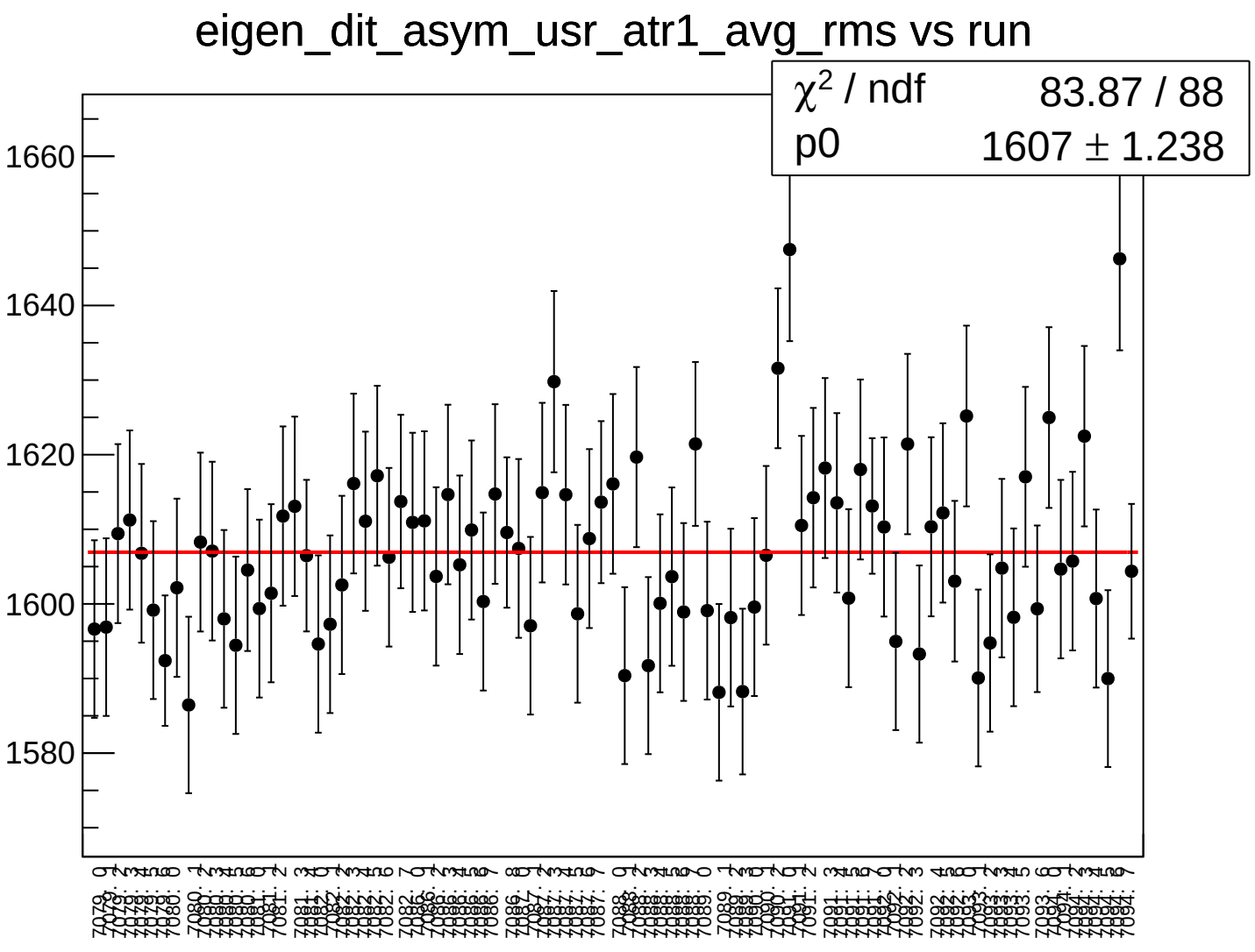

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 69.02 / 88
p0 −268 ± 1265
pull
Entries 89
Mean −586.3
Std Dev 0

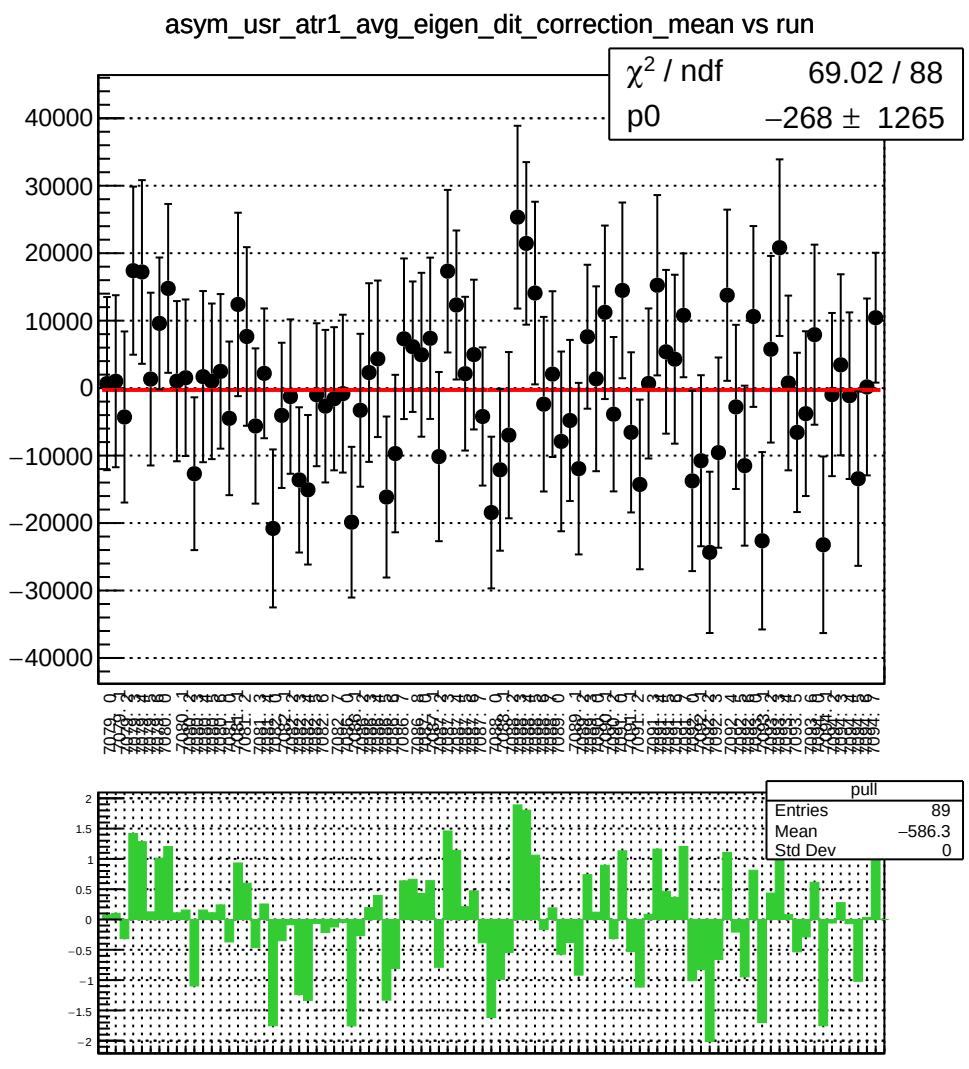

pull1D
Entries 89
Mean 0.002266
Std Dev 0.8806

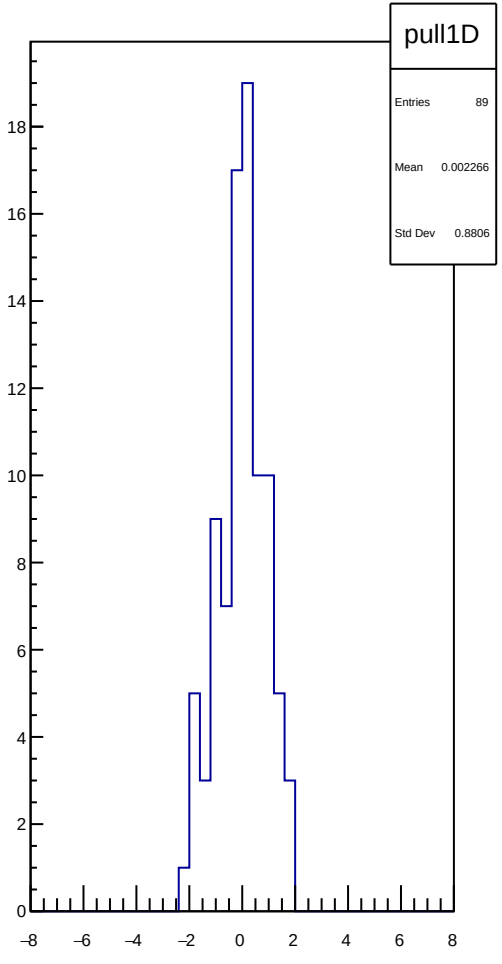

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 8115 / 88
p0 1159 ± 0.8946
1350
1300
1250
1200
1150
1100
1050
1000

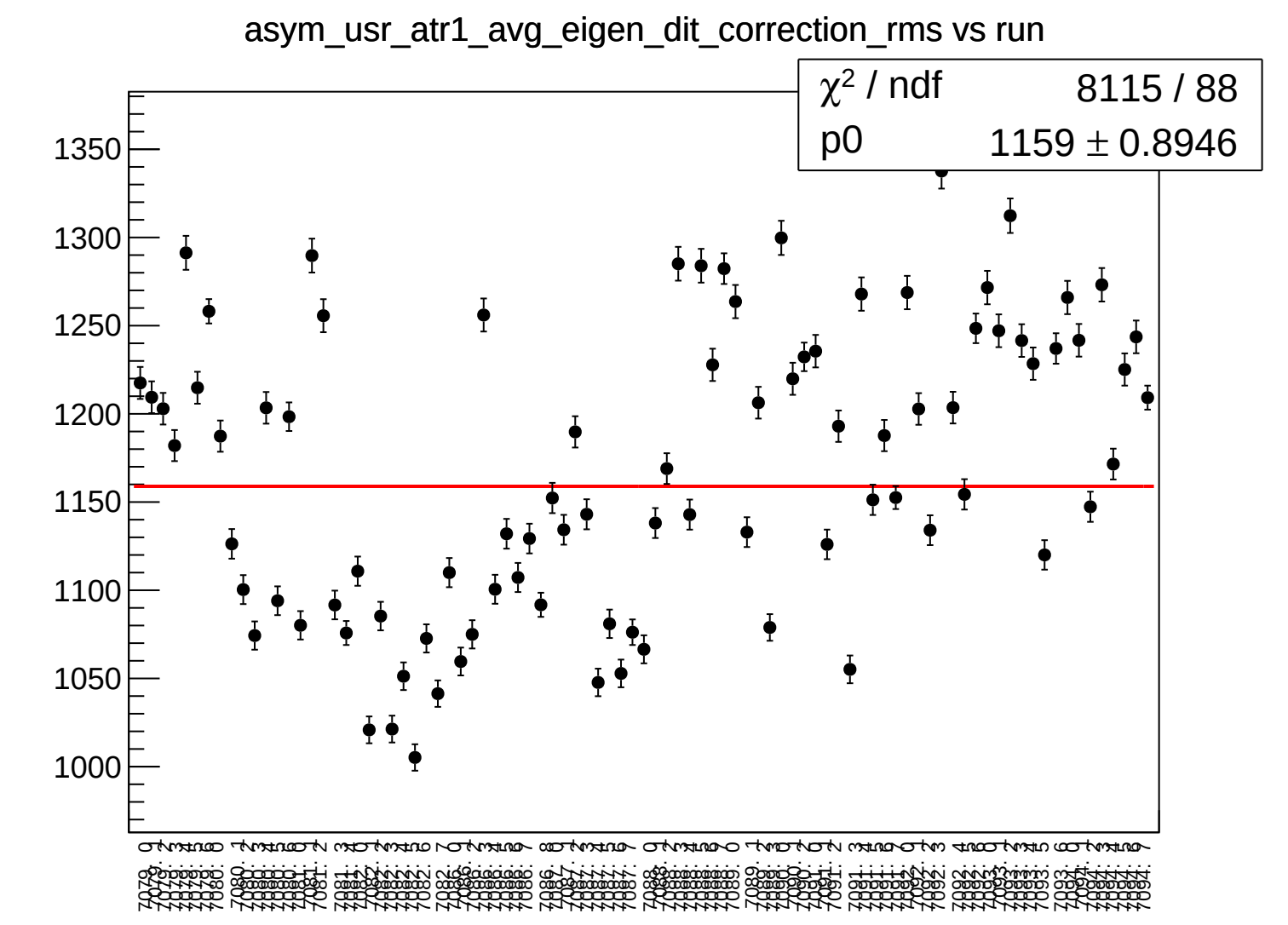

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 71.72 / 88
p0 2054 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 49.27
Std Dev 47.82
2
1
0
−1
−2

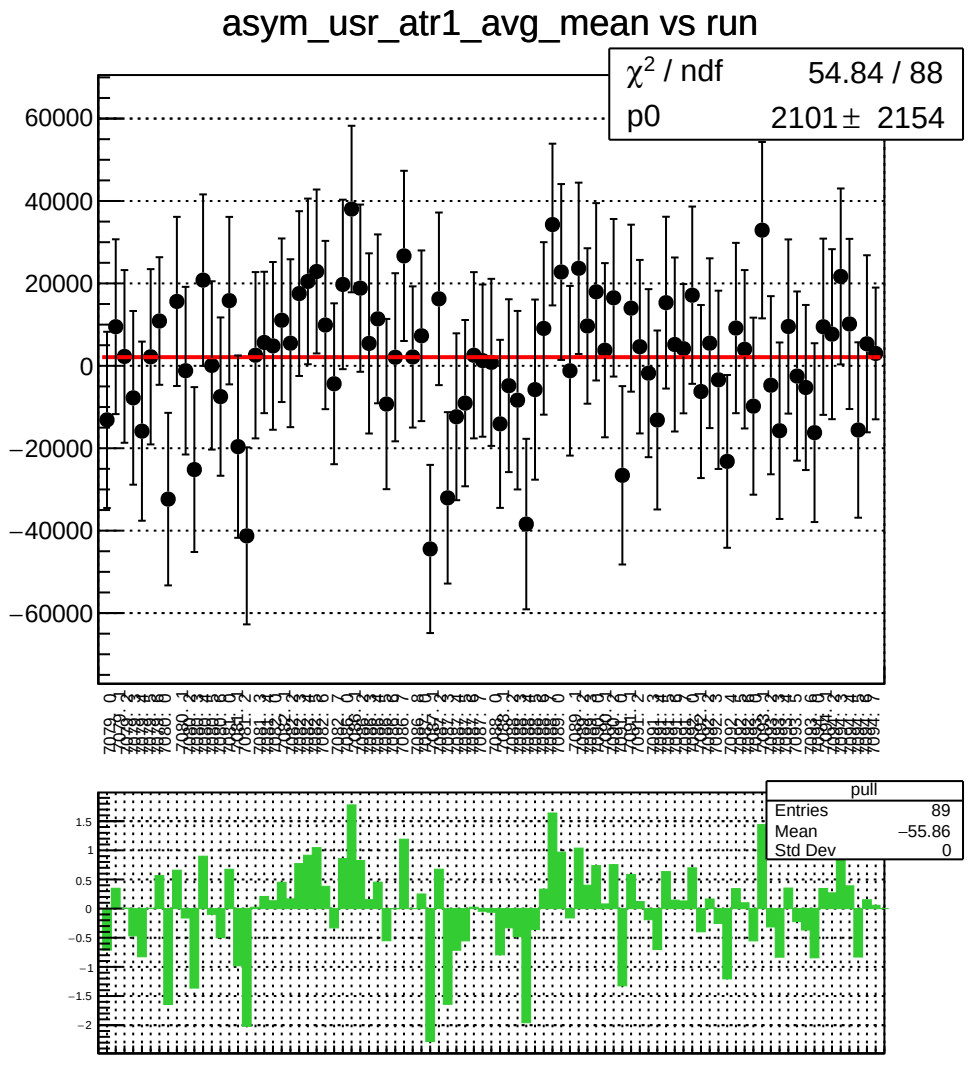

pull1D
Entries 89
Mean −0.01636
Std Dev 0.8976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

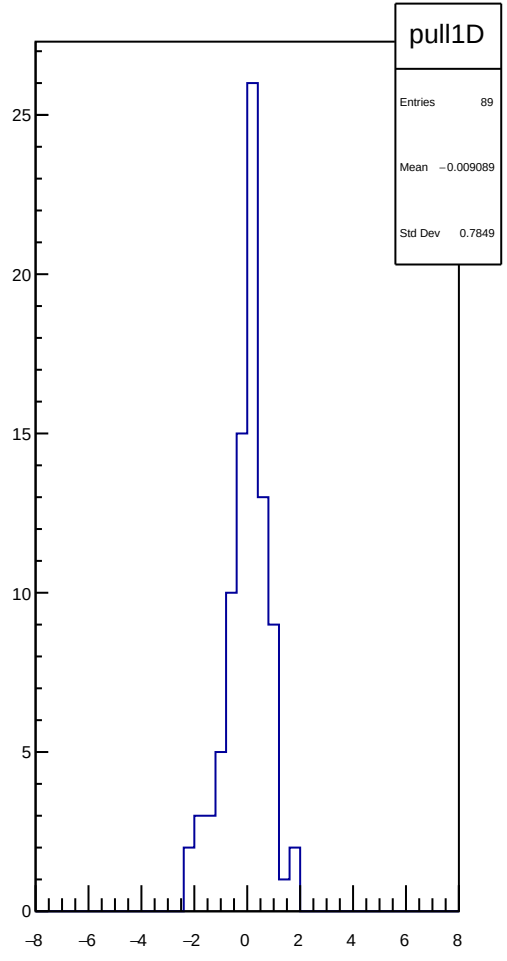

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 83.87 / 88
p0 1607 ± 1.238
1660
1640
1620
1600
1580

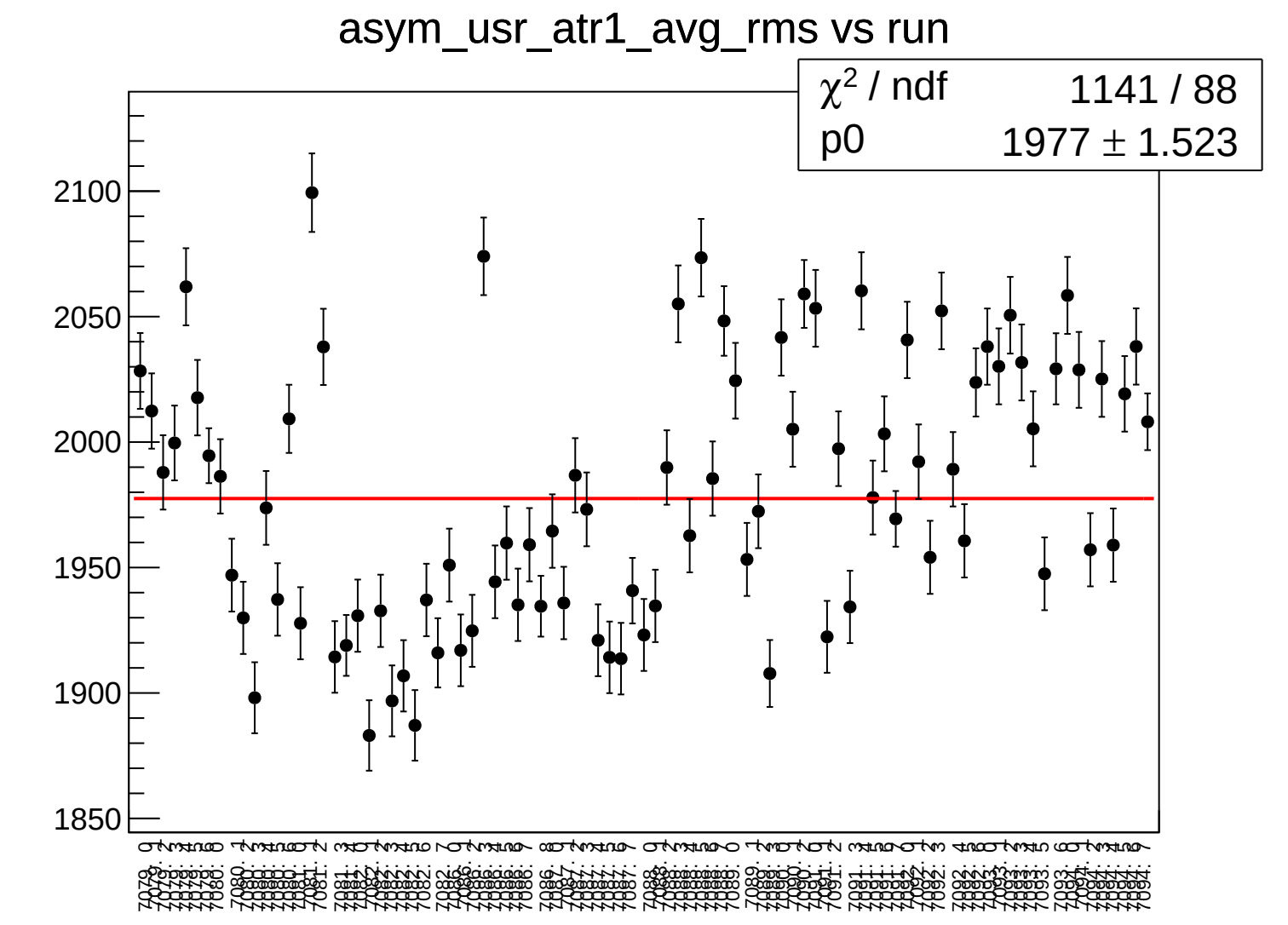

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.02 / 88
p0 −268 ± 1265
pull
Entries 89
Mean −586.3
Std Dev 0

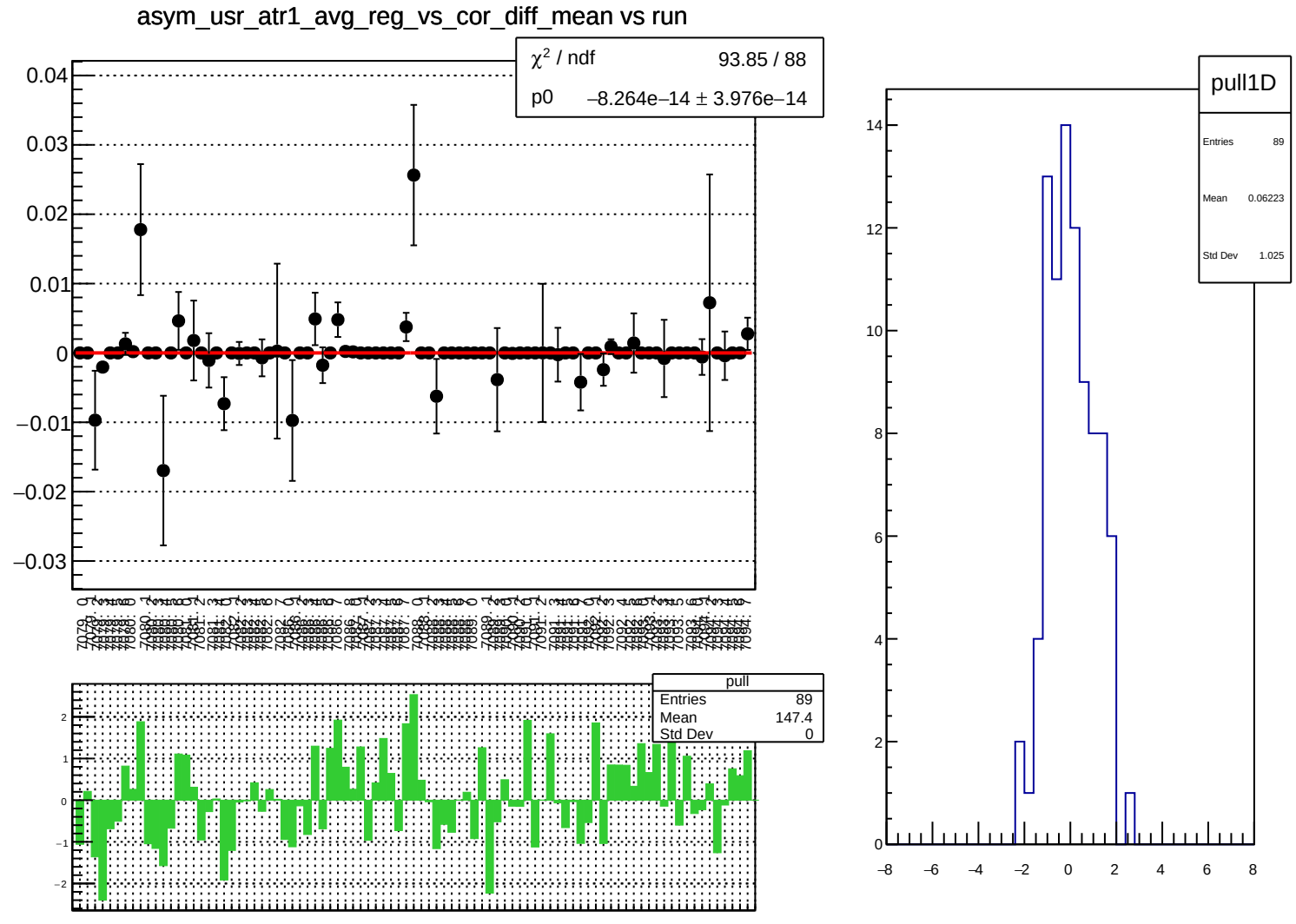

pull1D
Entries 89
Mean 0.002266
Std Dev 0.8806

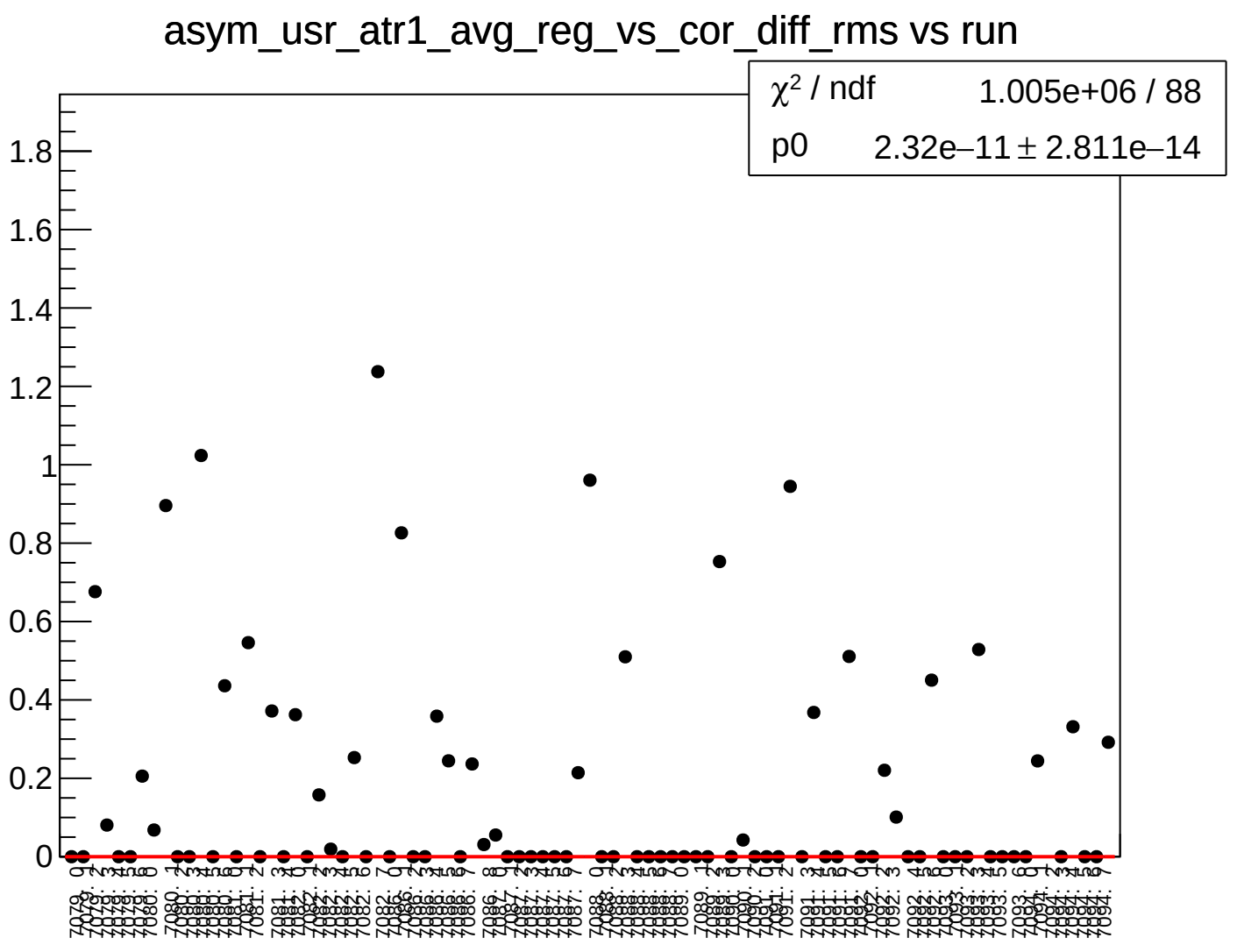

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8115 / 88
p0 1159 ± 0.8946
1350
1300
1250
1200
1150
1100
1050
1000

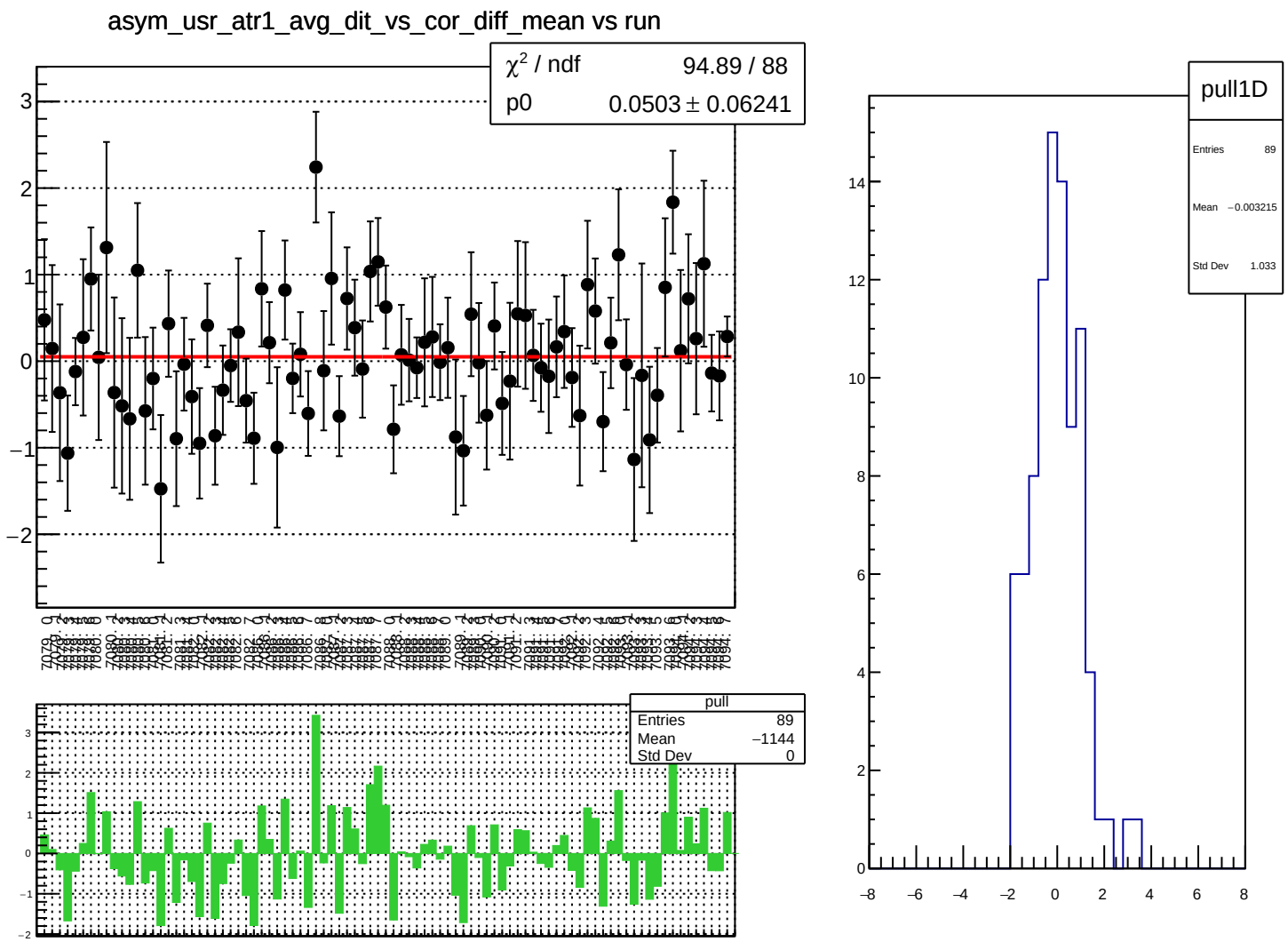

asym_usr_atr1_avg_mean vs run
χ² / ndf 54.84 / 88
p0 2101 ± 2154
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −55.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

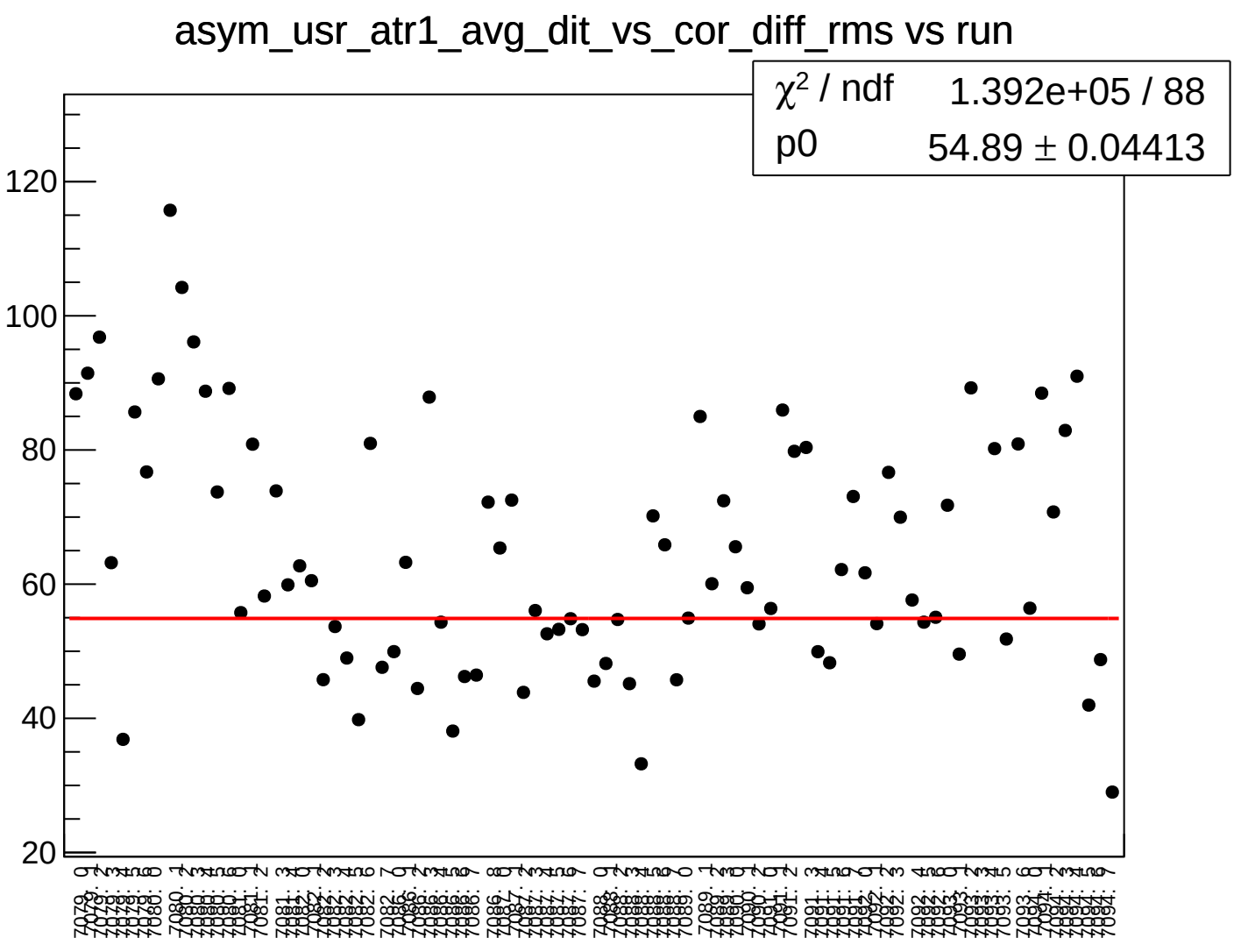

pull1D
Entries 89
Mean −0.009089
Std Dev 0.7849
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

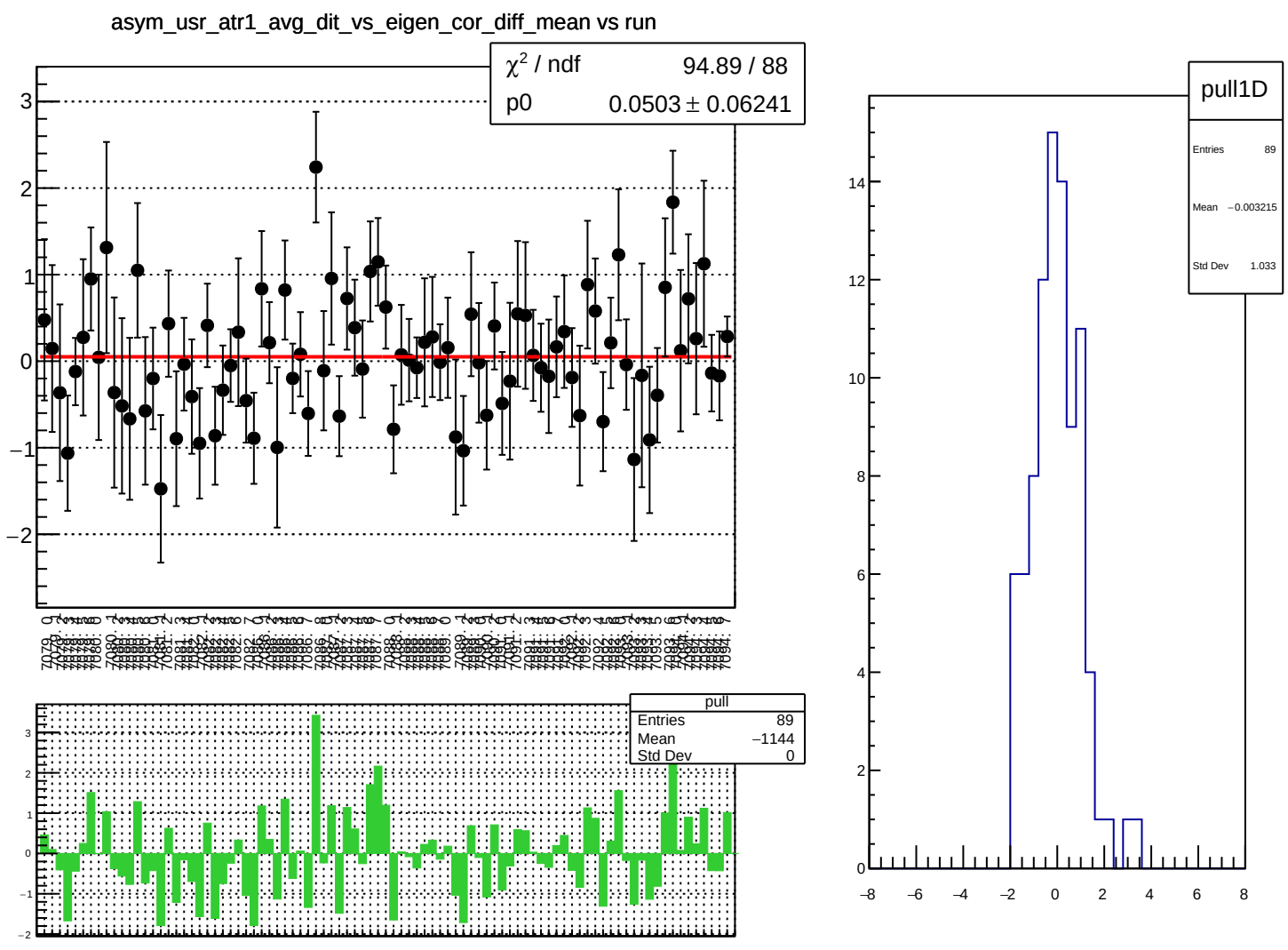

asym_usr_atr1_avg_rms vs run
χ² / ndf 1141 / 88
p0 1977 ± 1.523
2100
2050
2000
1950
1900
1850

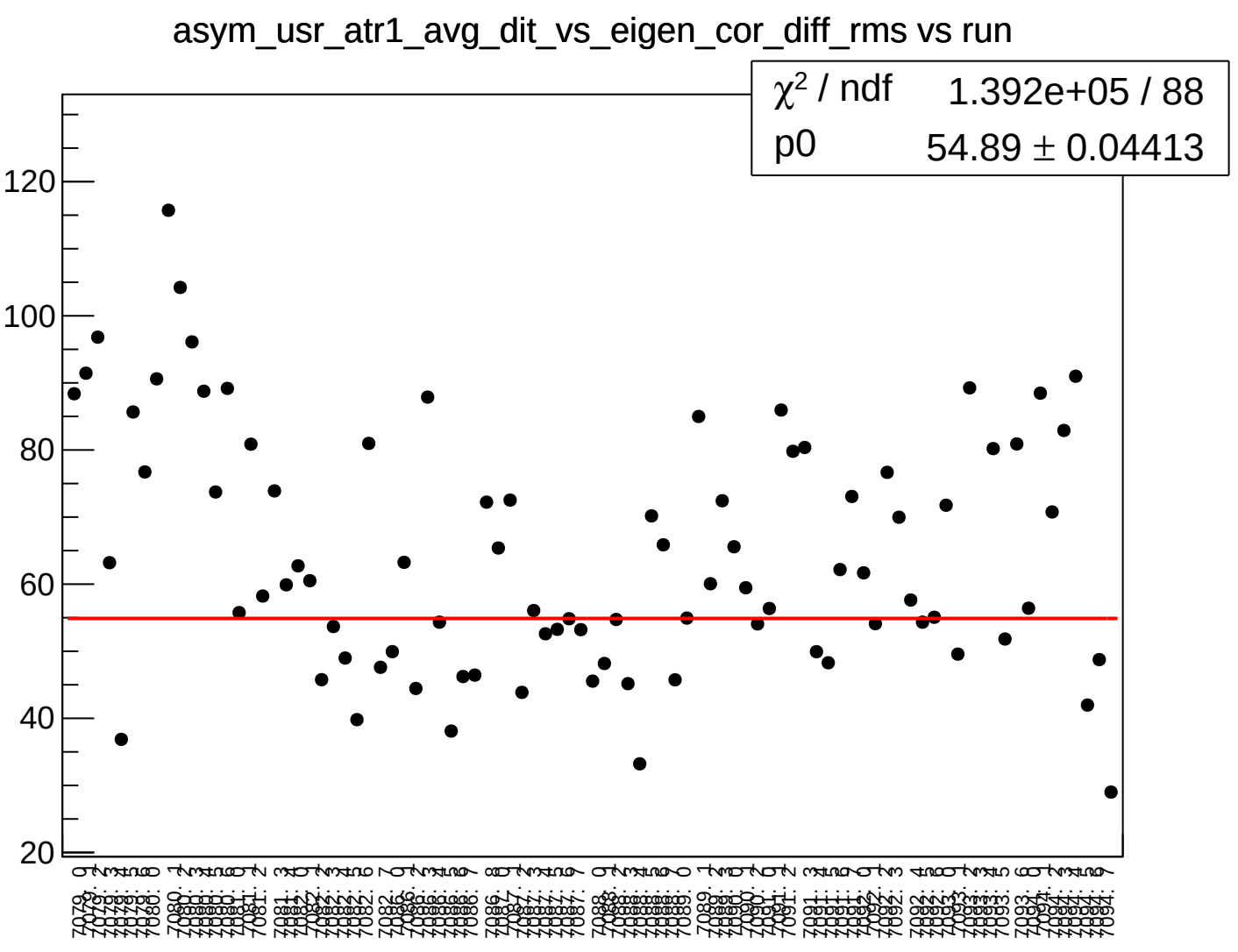

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.85 / 88
p0 −8.264e−14 ± 3.976e−14
pull
Entries 89
Mean 147.4
Std Dev 0
pull1D
Entries 89
Mean 0.06223
Std Dev 1.025

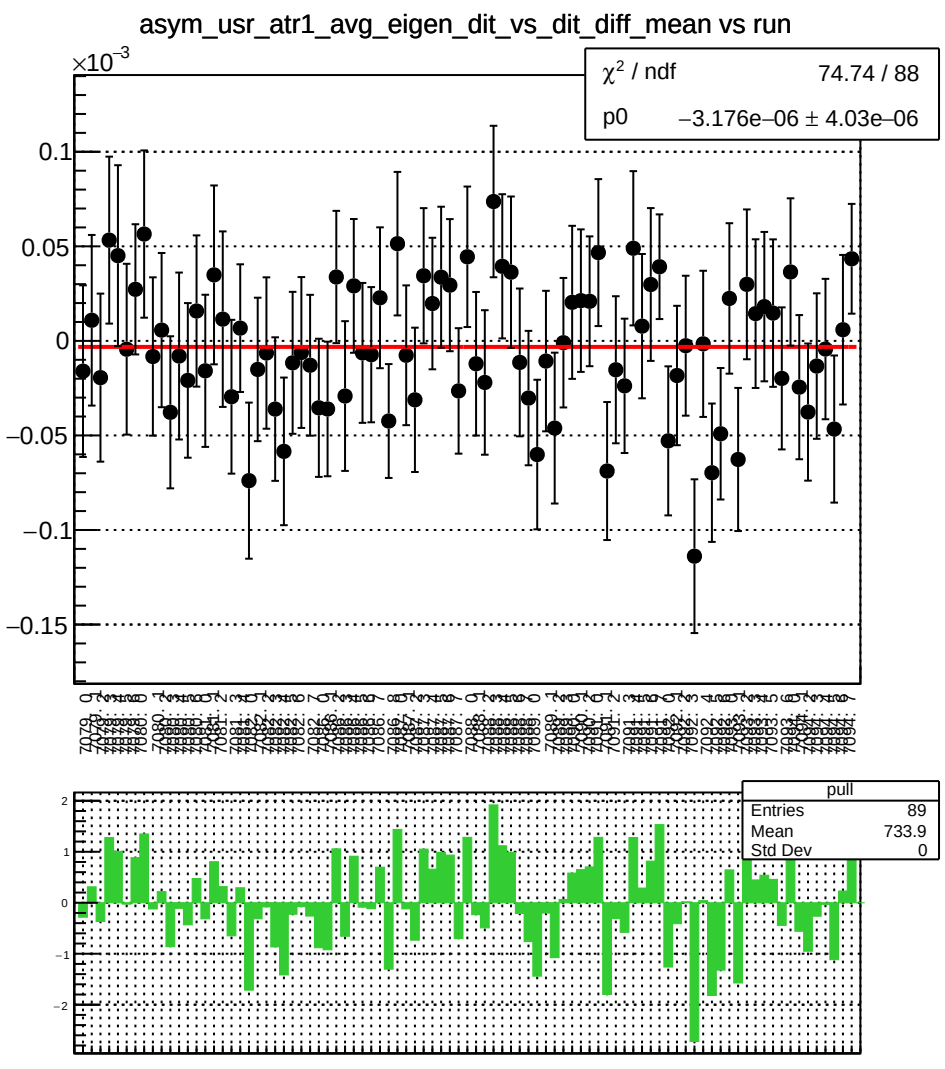

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.005e+06 / 88
p0 2.32e−11 ± 2.811e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

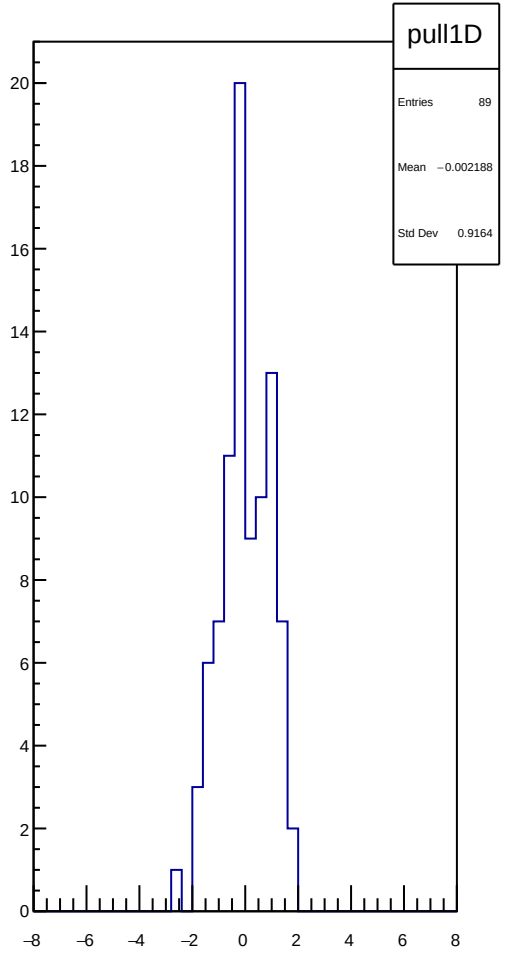

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.89 / 88
p0 0.0503 ± 0.06241
pull
Entries 89
Mean −1144
Std Dev 0
pull1D
Entries 89
Mean −0.003215
Std Dev 1.033

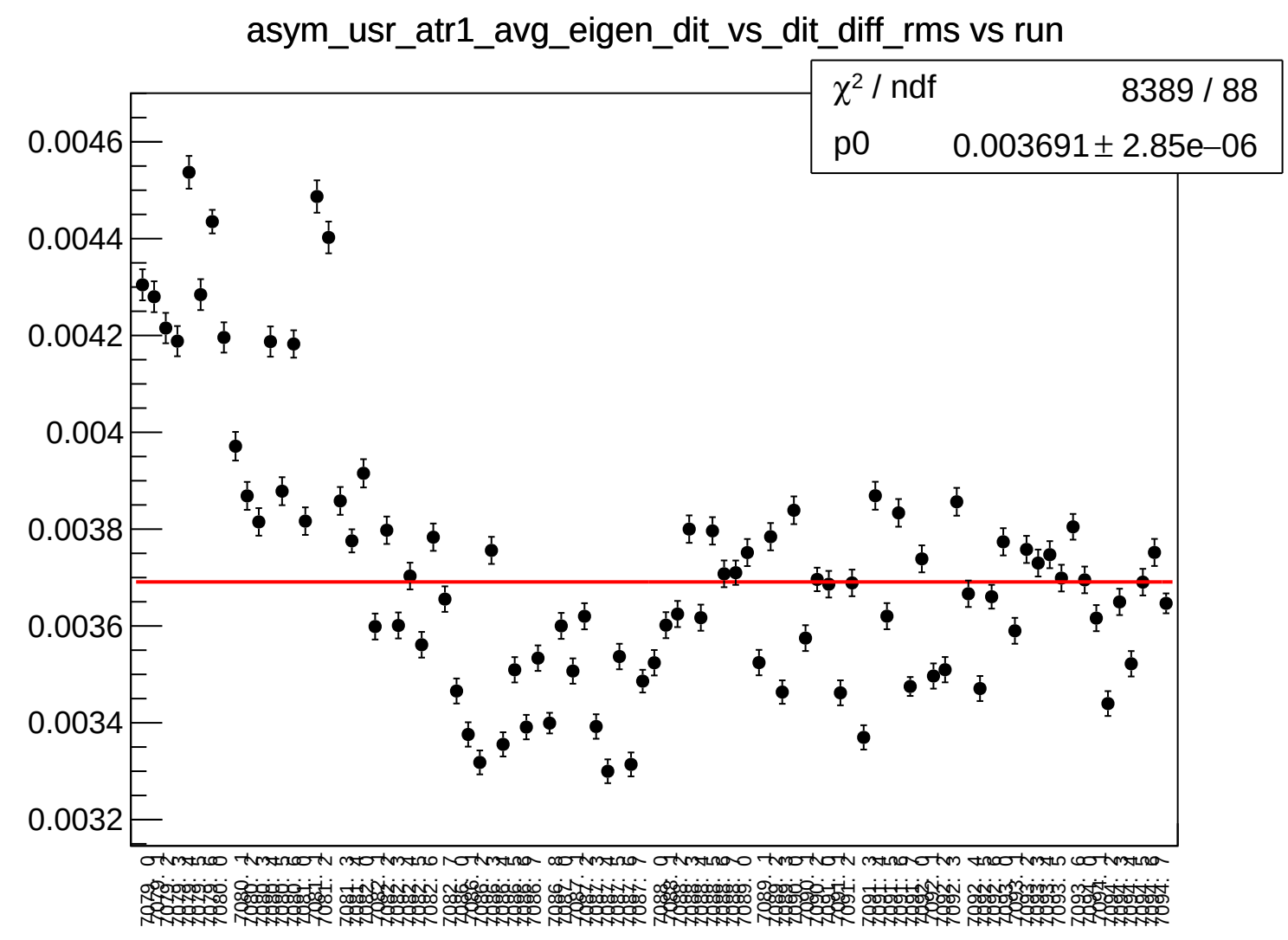

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.392e+05 / 88
p0 54.89 ± 0.04413
120
100
80
60
40
20

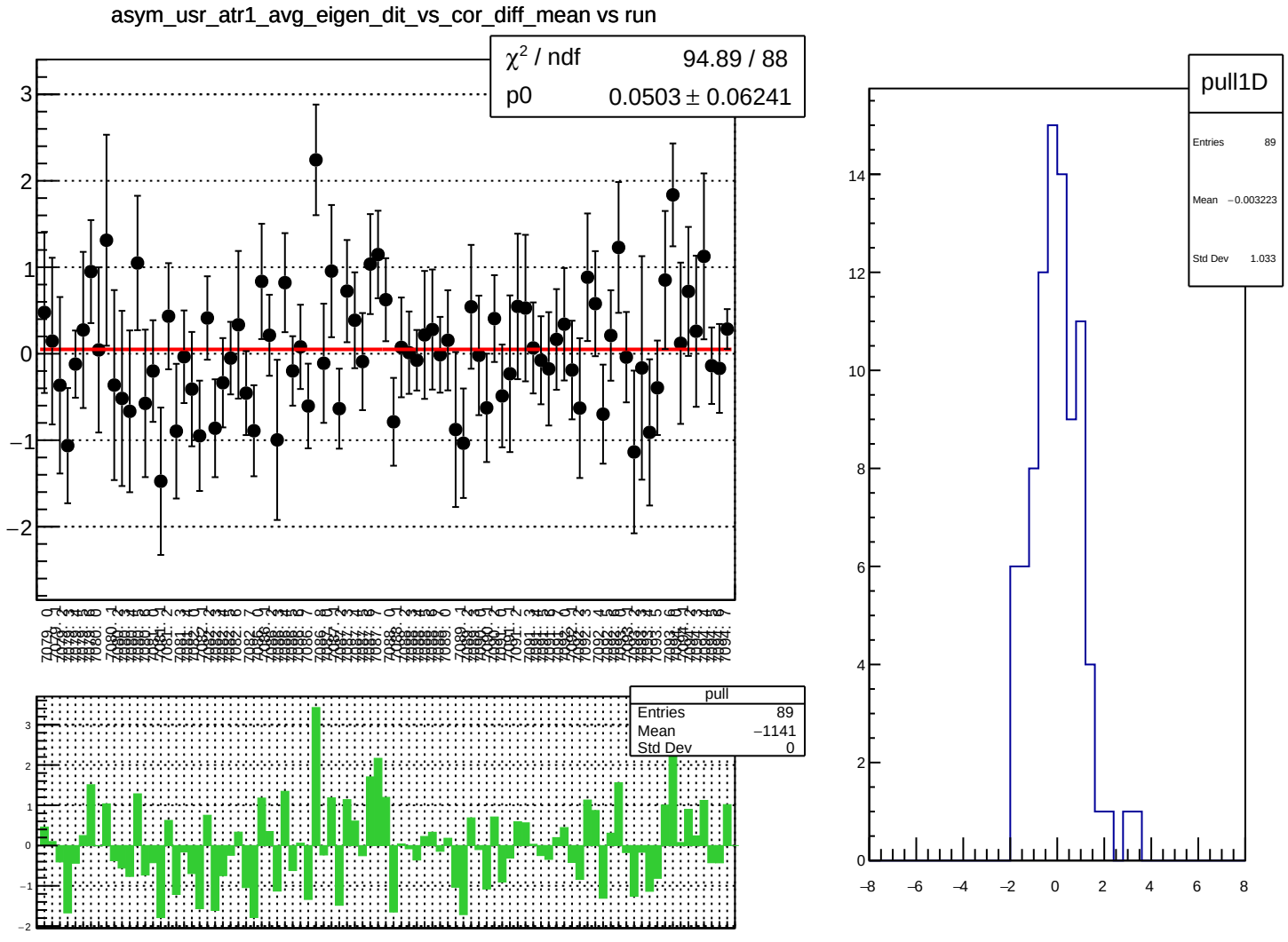

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.89 / 88
p0 0.0503 ± 0.06241
pull
Entries 89
Mean −1144
Std Dev 0
pull1D
Entries 89
Mean −0.003215
Std Dev 1.033

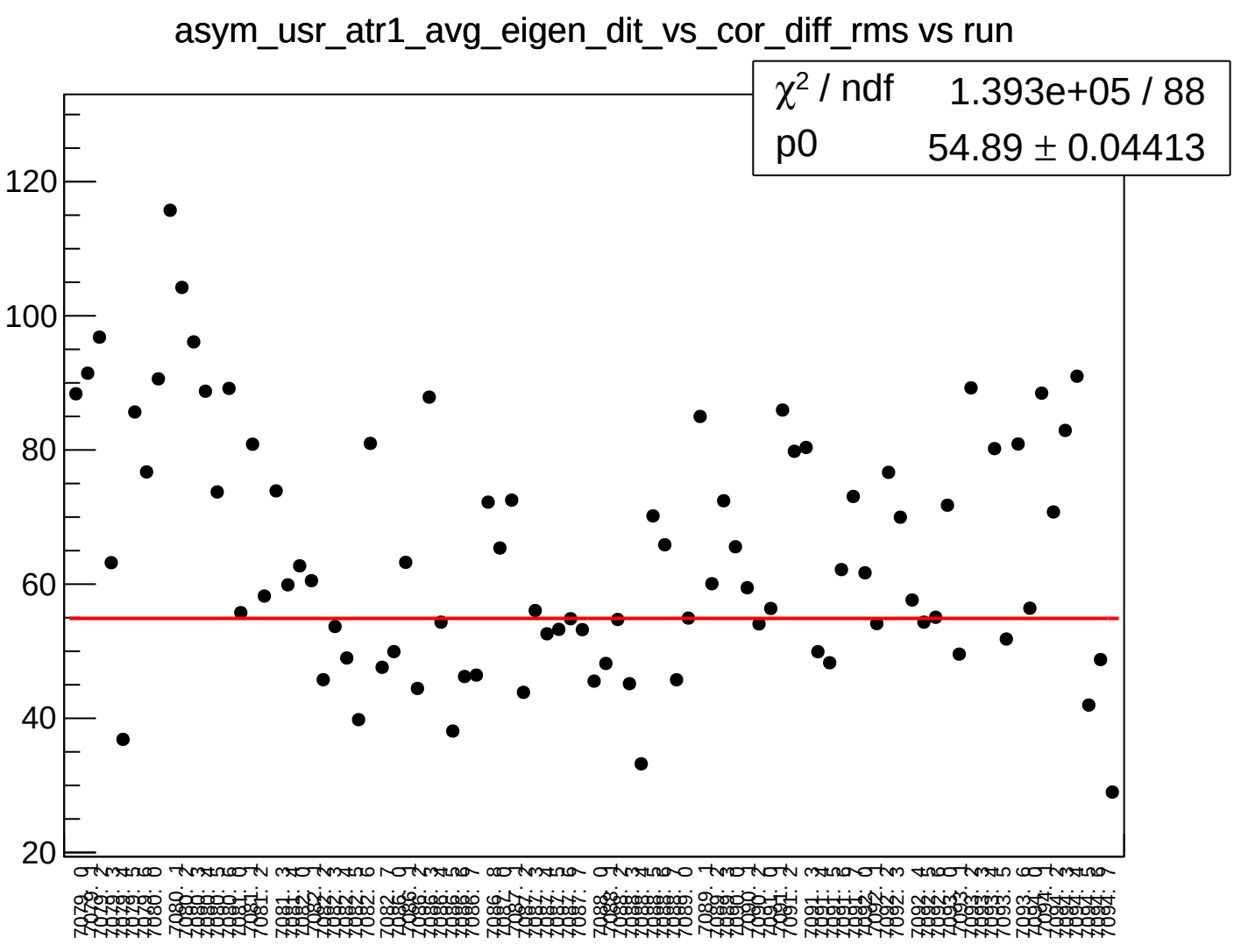

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.392e+05 / 88
p0 54.89 ± 0.04413
120
100
80
60
40
20

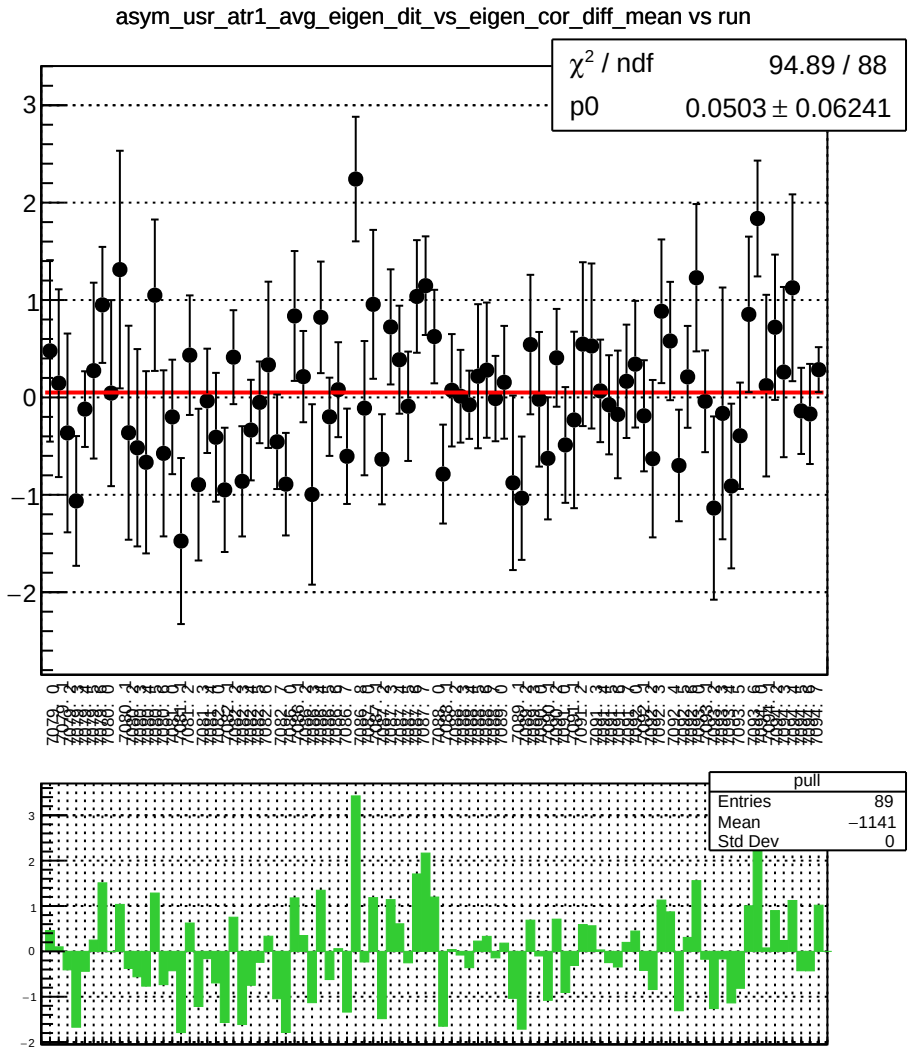

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.74 / 88
p0 −3.176e−06 ± 4.03e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 733.9
Std Dev 0
2
1
0
−1
−2

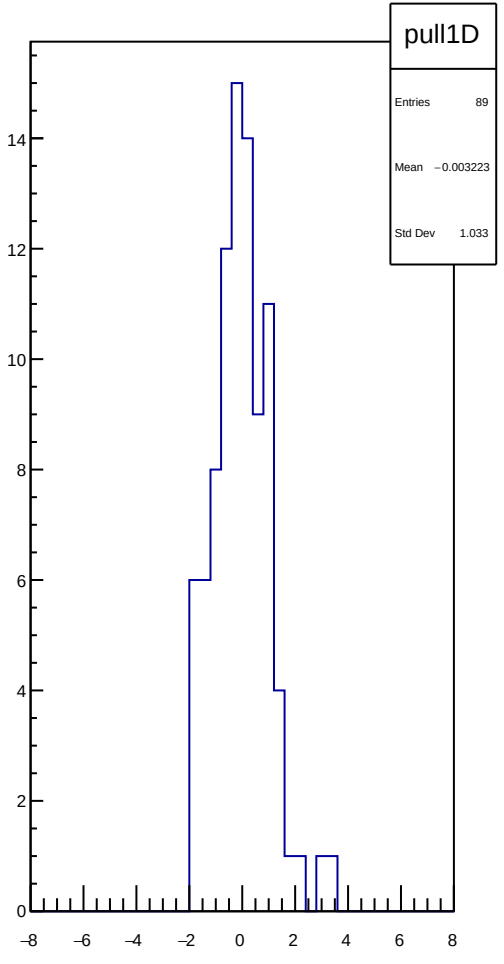

pull1D
Entries 89
Mean −0.002188
Std Dev 0.9164
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

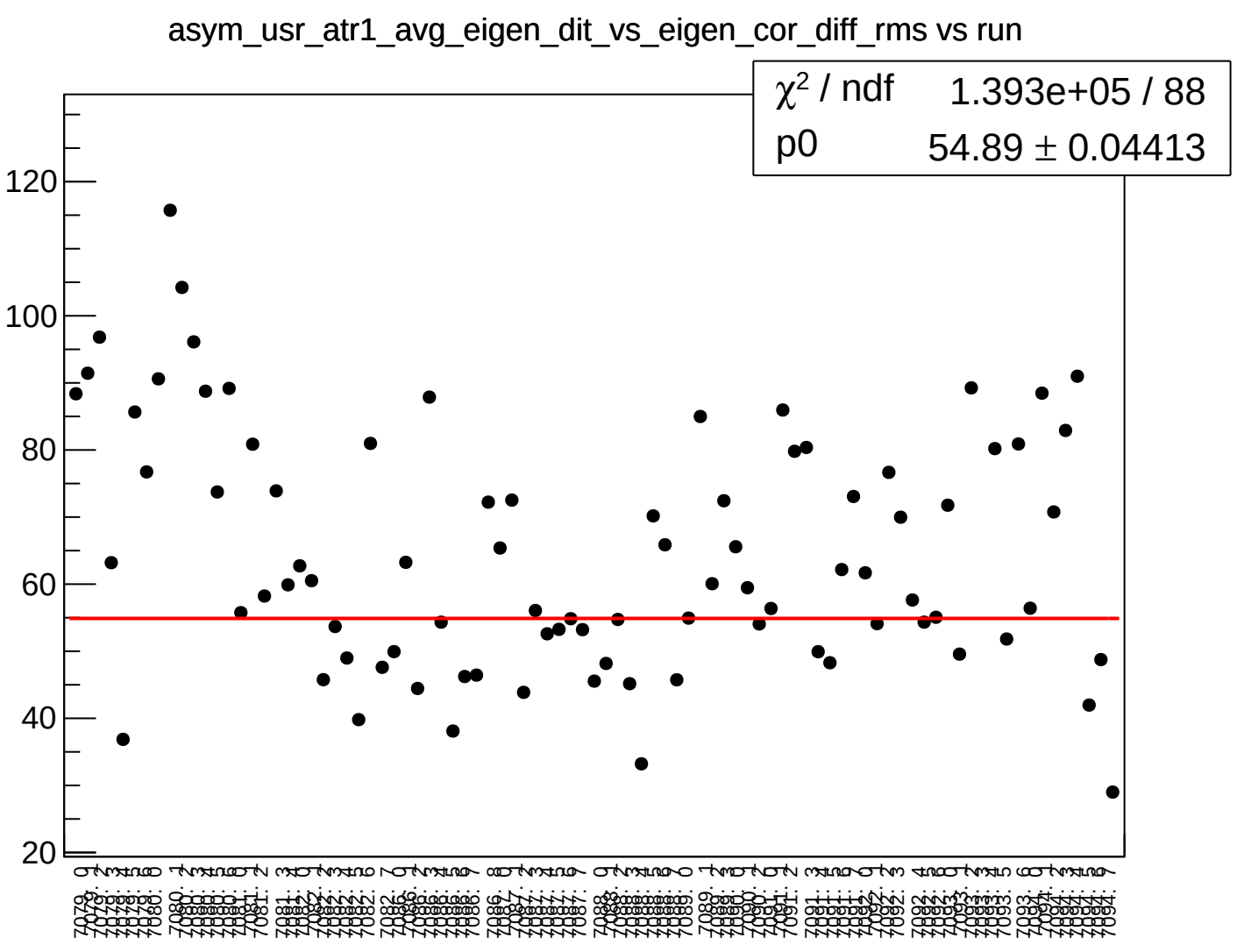

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8389 / 88
p0 0.003691 ± 2.85e–06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

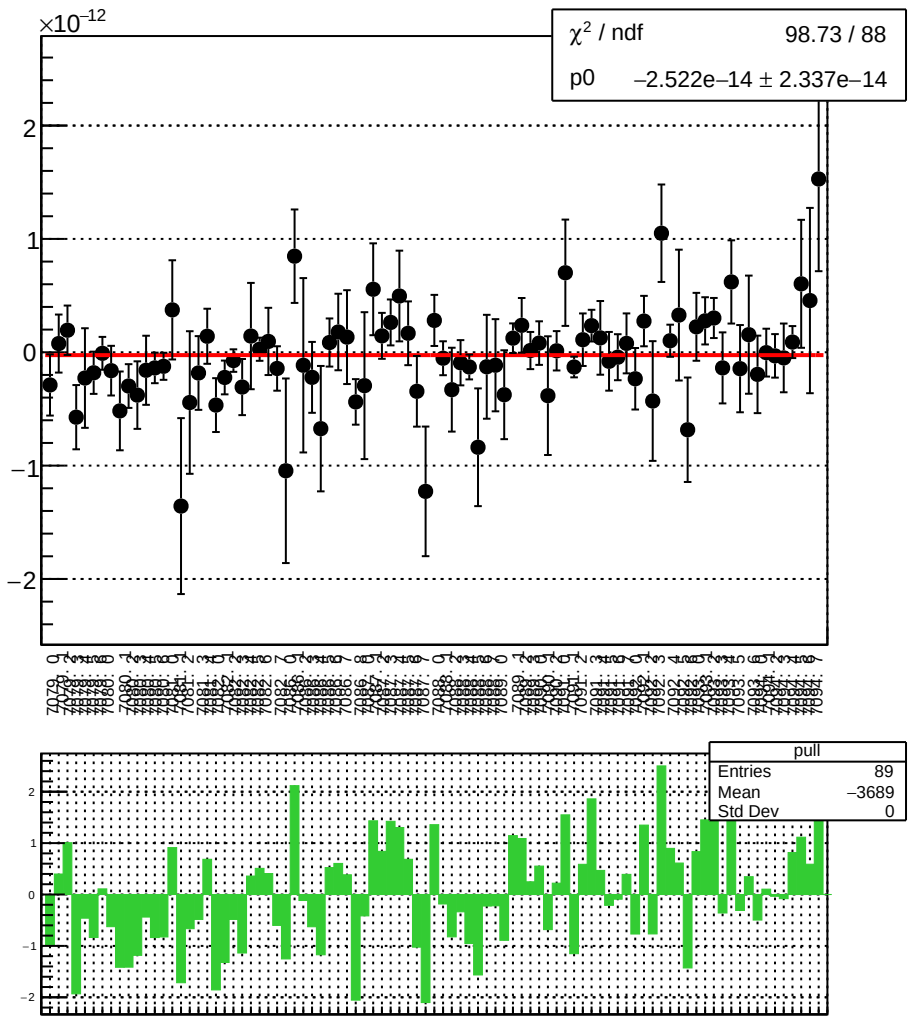

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.89 / 88
p0 0.0503 ± 0.06241
pull
Entries 89
Mean −1141
Std Dev 0
pull1D
Entries 89
Mean −0.003223
Std Dev 1.033

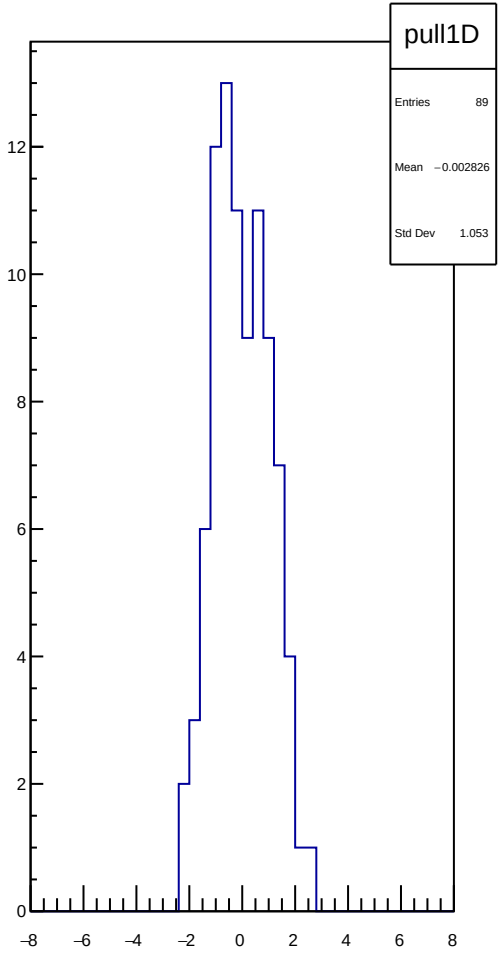

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.393e+05 / 88
p0 54.89 ± 0.04413
120
100
80
60
40
20

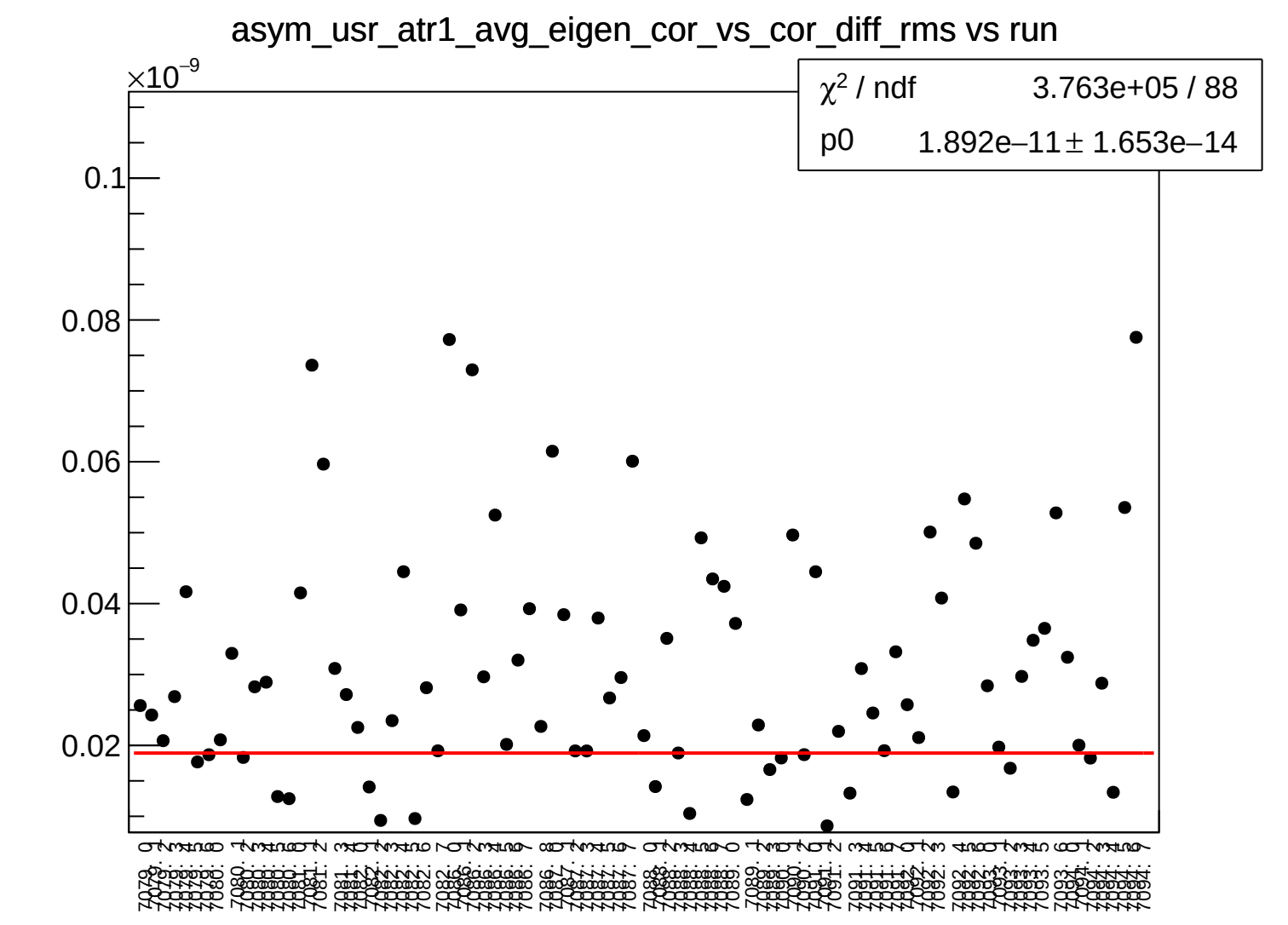

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.89 / 88
p0 0.0503 ± 0.06241
pull
Entries 89
Mean −1141
Std Dev 0

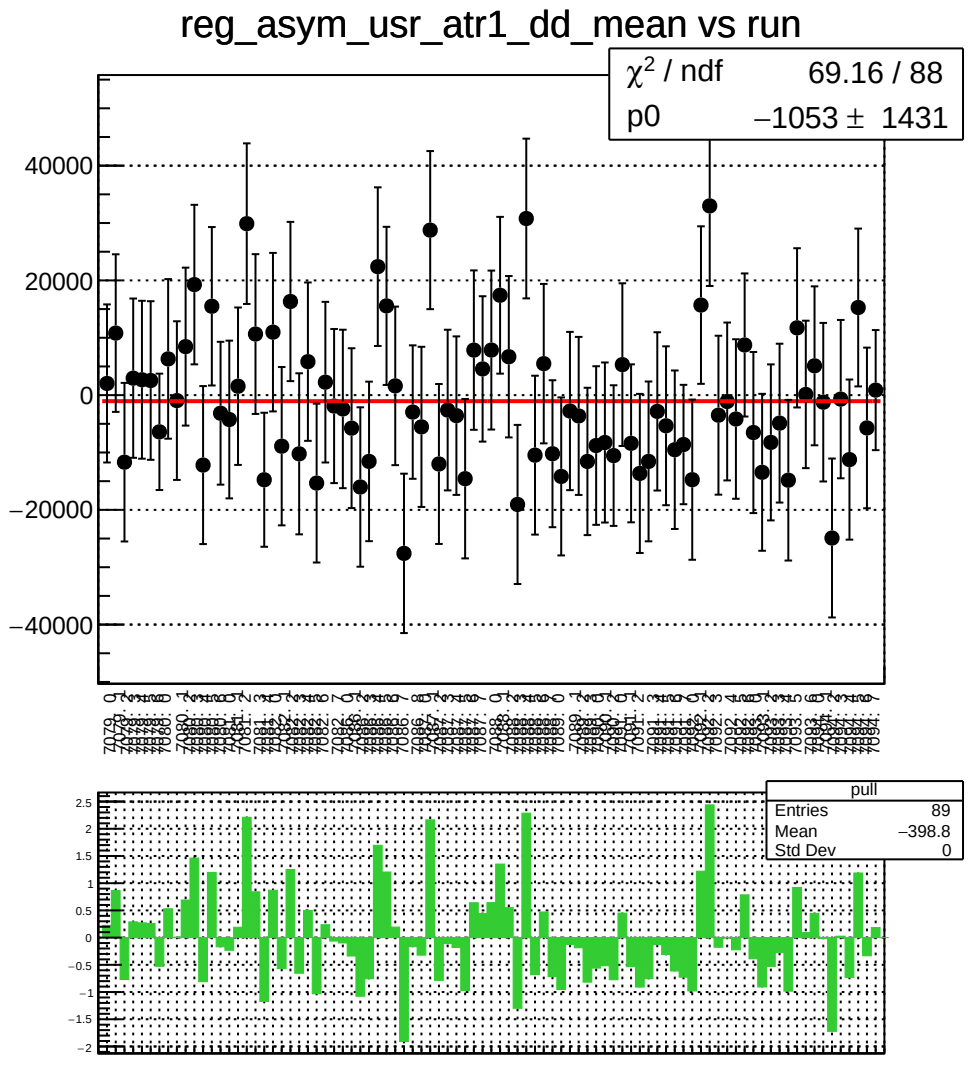

pull1D
Entries 89
Mean −0.003223
Std Dev 1.033

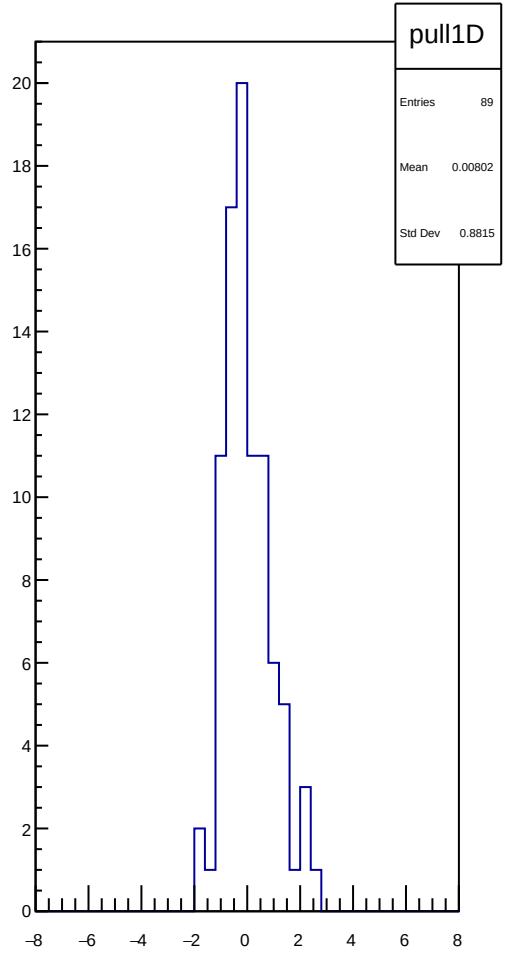

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.393e+05 / 88
p0 54.89 ± 0.04413
120
100
80
60
40
20

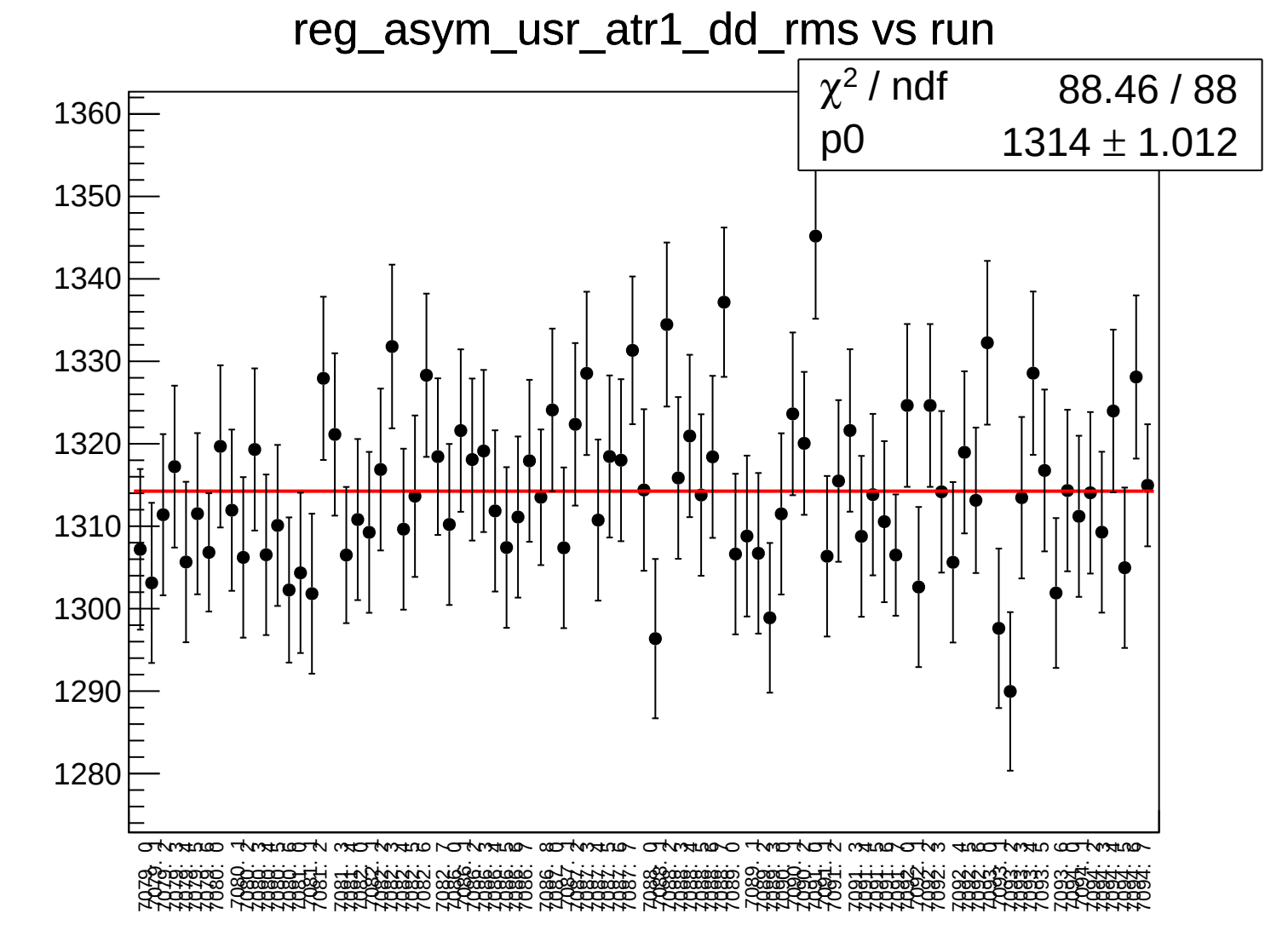

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.73 / 88
p0 −2.522e−14 ± 2.337e−14
pull
Entries 89
Mean −3689
Std Dev 0

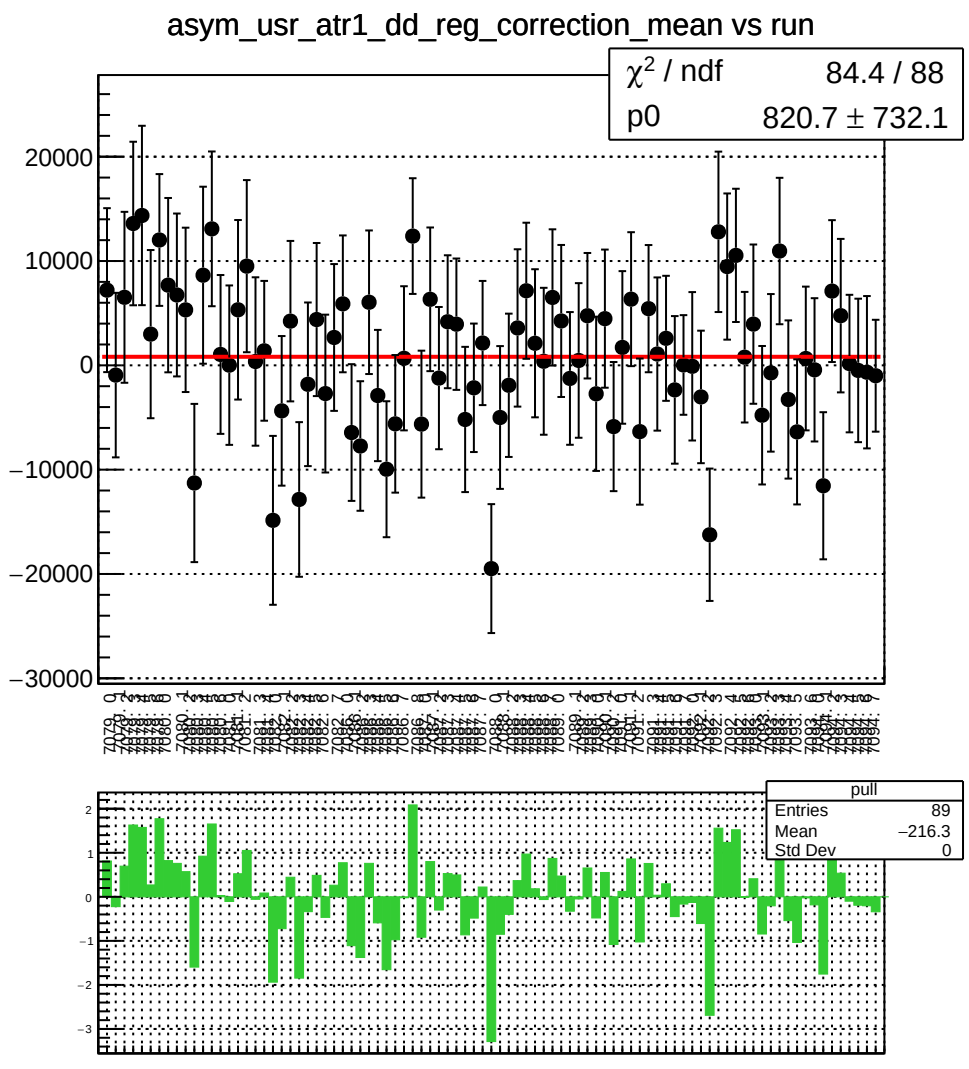

pull1D
Entries 89
Mean −0.002826
Std Dev 1.053

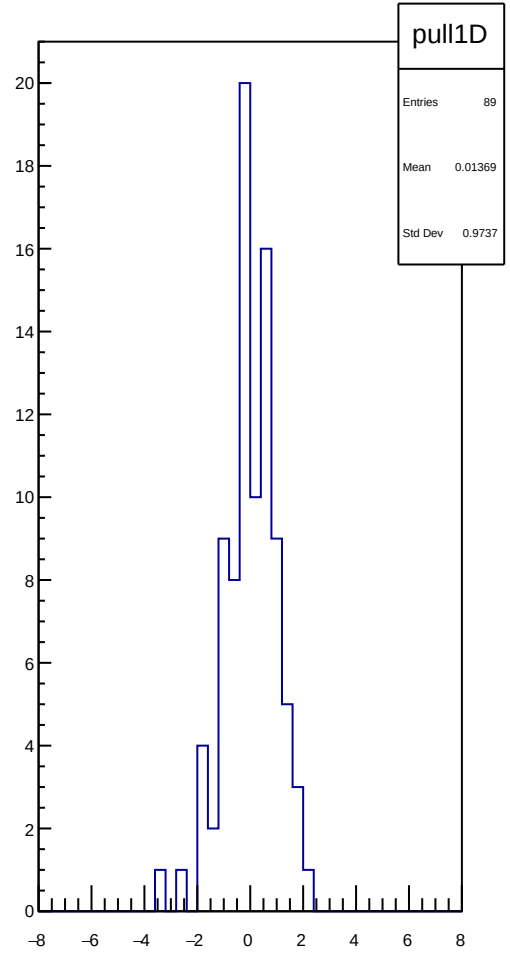

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.763e+05 / 88
p0 1.892e−11 ± 1.653e−14
0.1
0.08
0.06
0.04
0.02

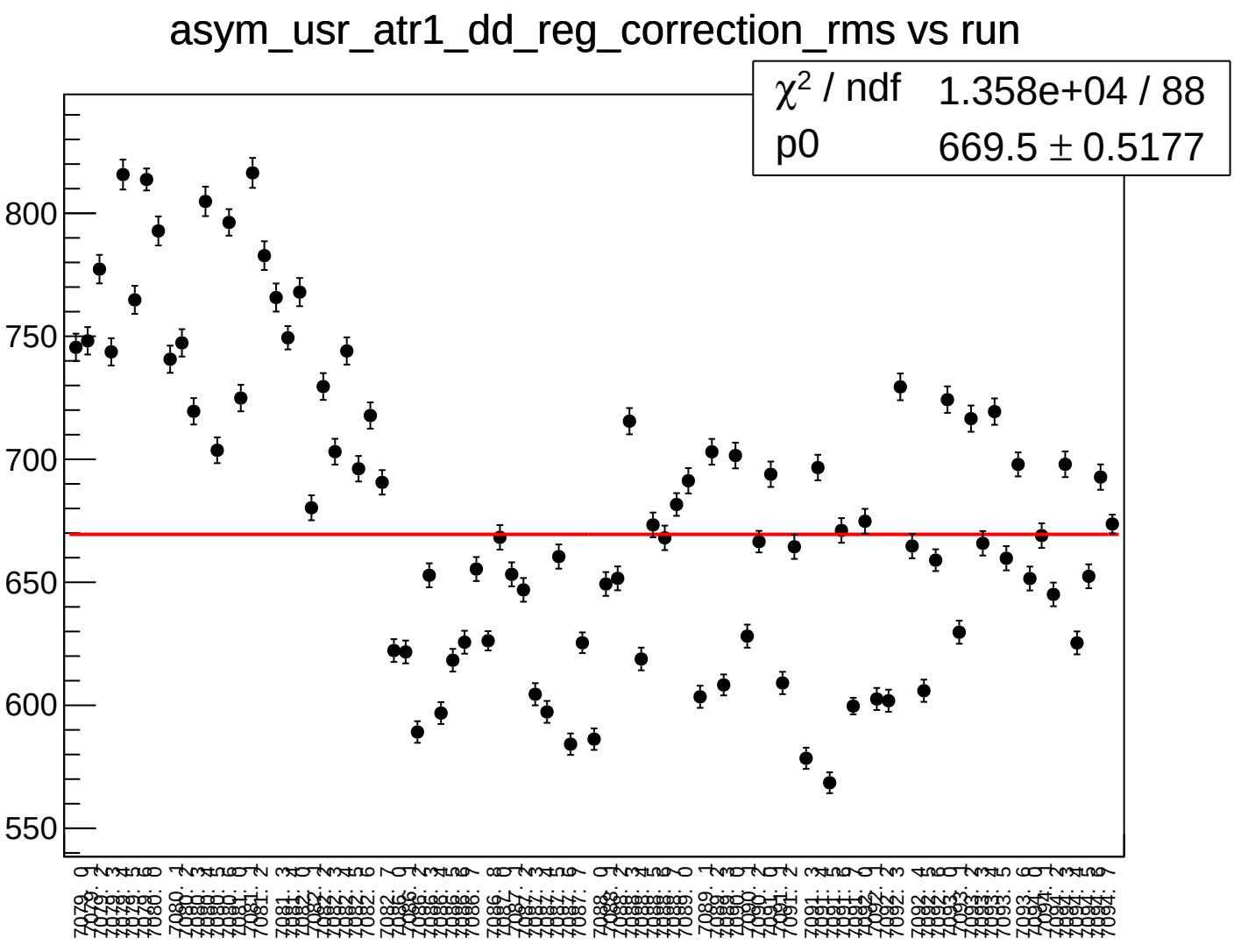

reg_asym_usr_atr1_dd_mean vs run
χ^2 / ndf 69.16 / 88
p0 −1053 ± 1431
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −398.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

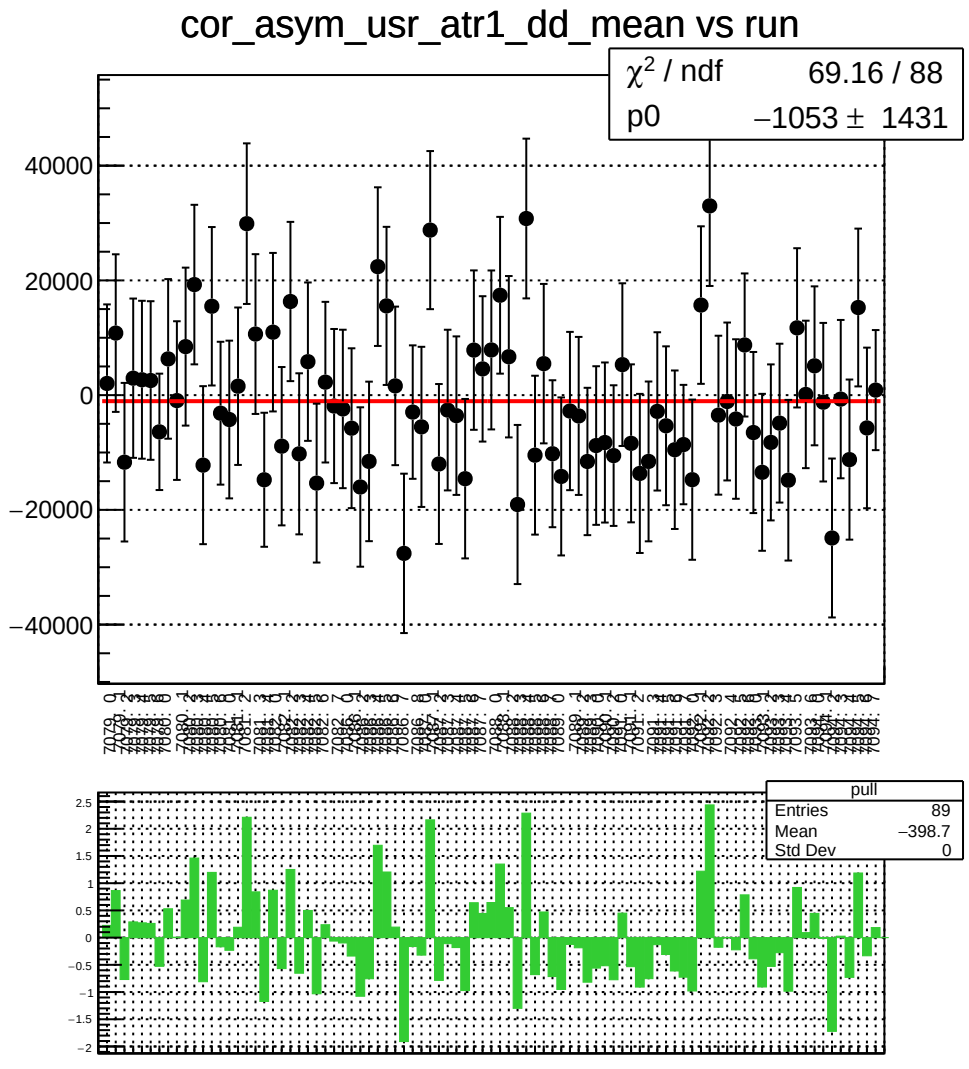

pull1D
Entries 89
Mean 0.00802
Std Dev 0.8815
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

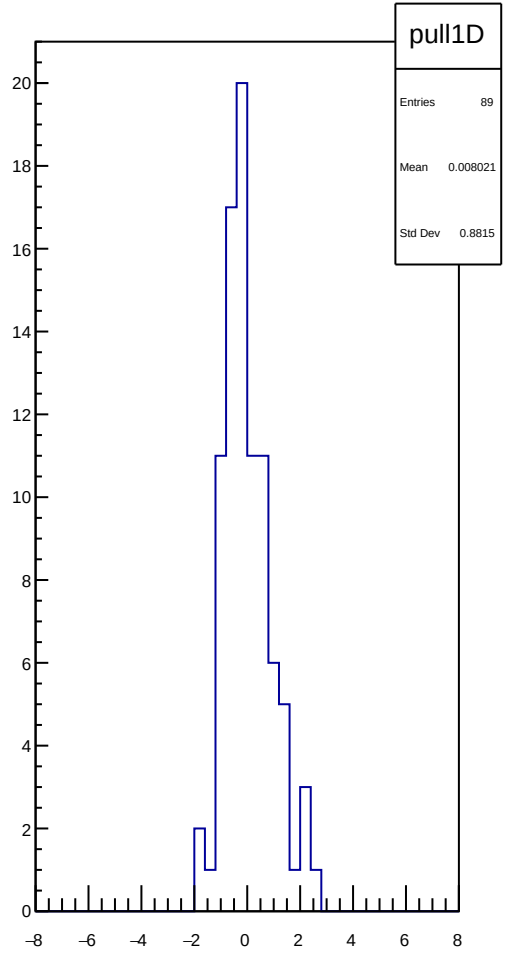

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 88.46 / 88
p0 1314 ± 1.012
1360
1350
1340
1330
1320
1310
1300
1290
1280

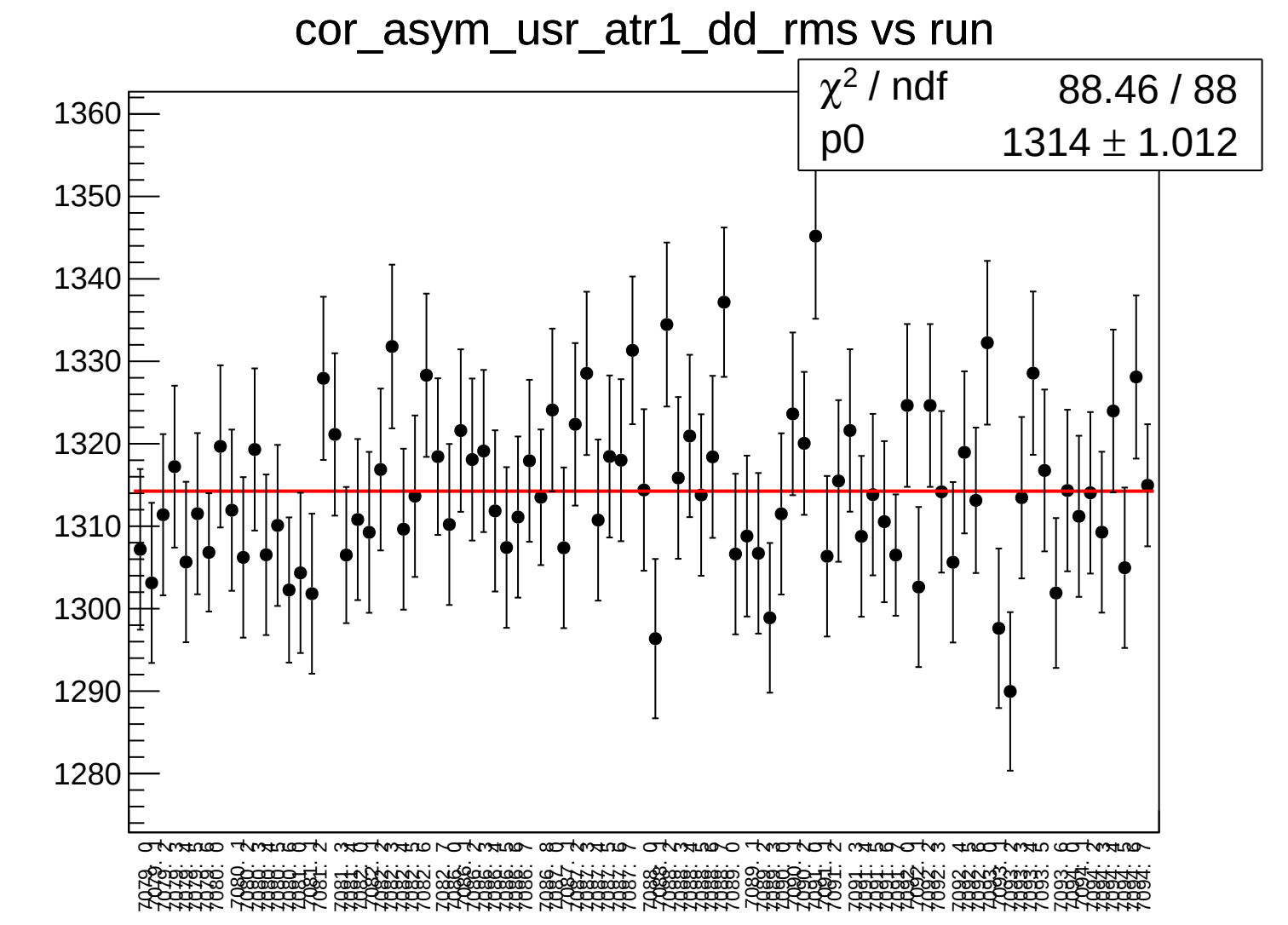

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 84.4 / 88
p0 820.7 ± 732.1
pull
Entries 89
Mean −216.3
Std Dev 0

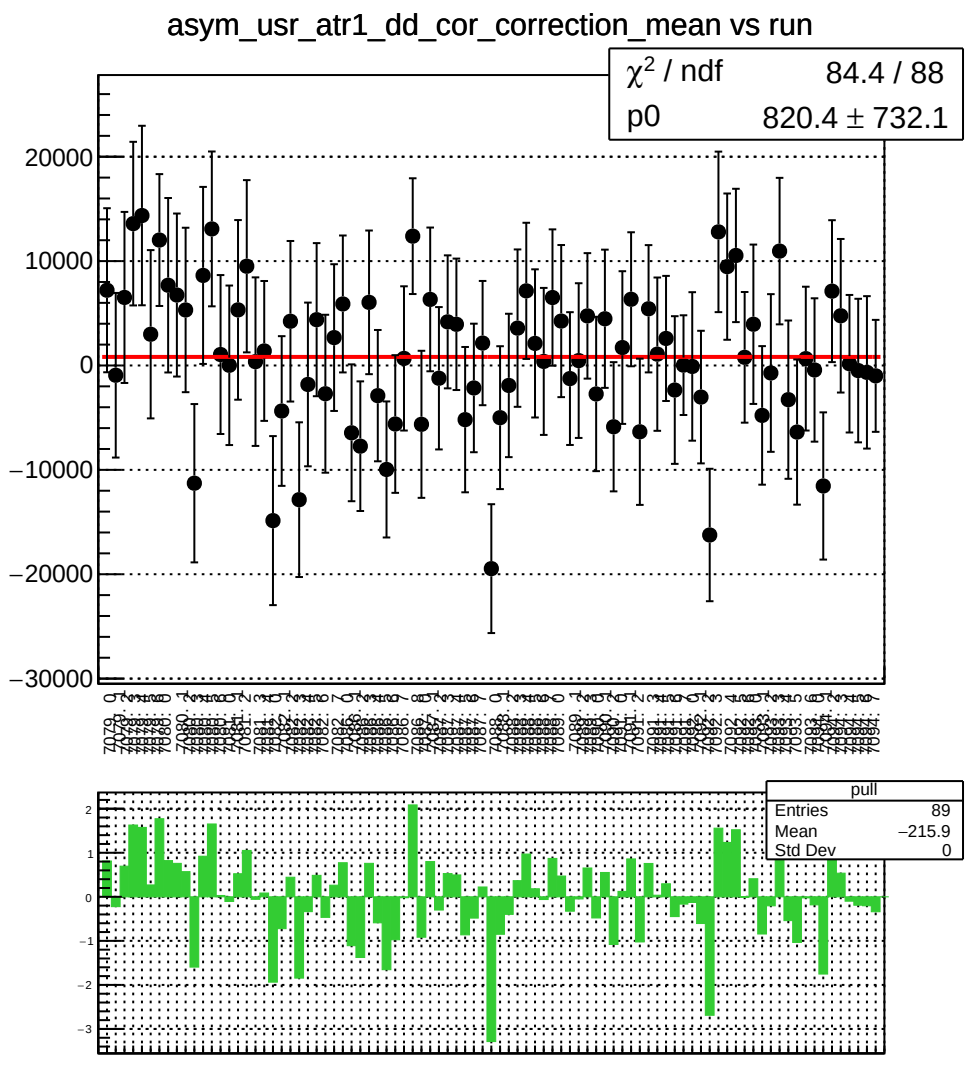

pull1D
Entries 89
Mean 0.01369
Std Dev 0.9737

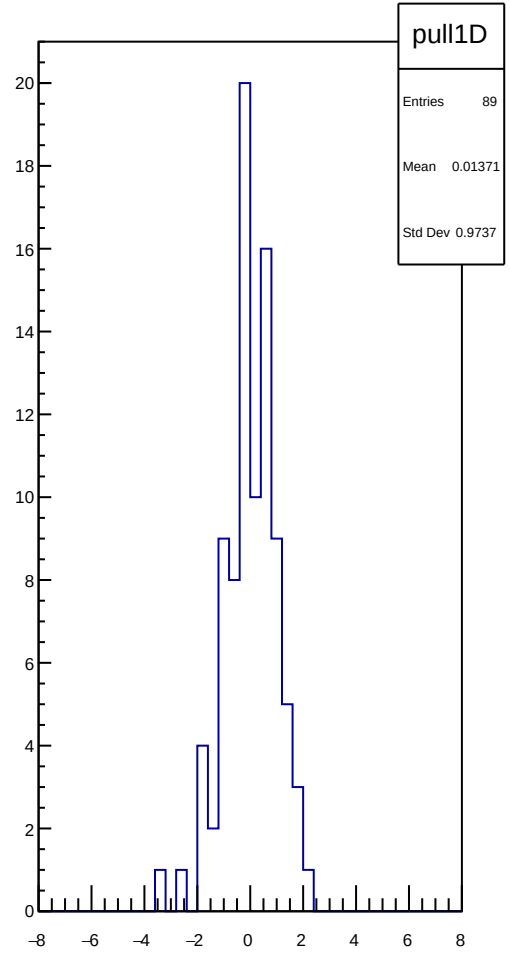

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.358e+04 / 88
p0 669.5 ± 0.5177
800
750
700
650
600
550

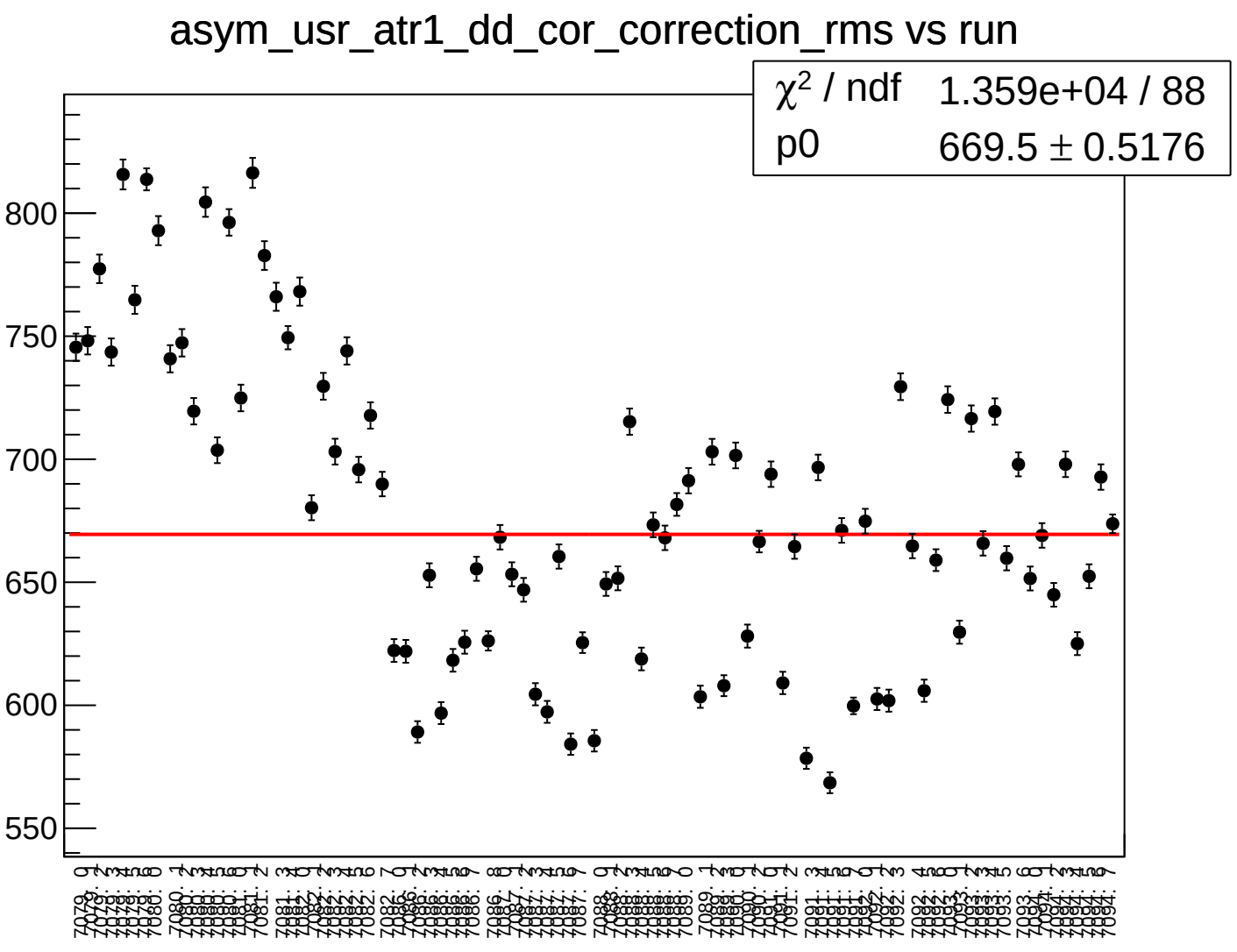

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 69.16 / 88
p0 −1053 ± 1431
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −398.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

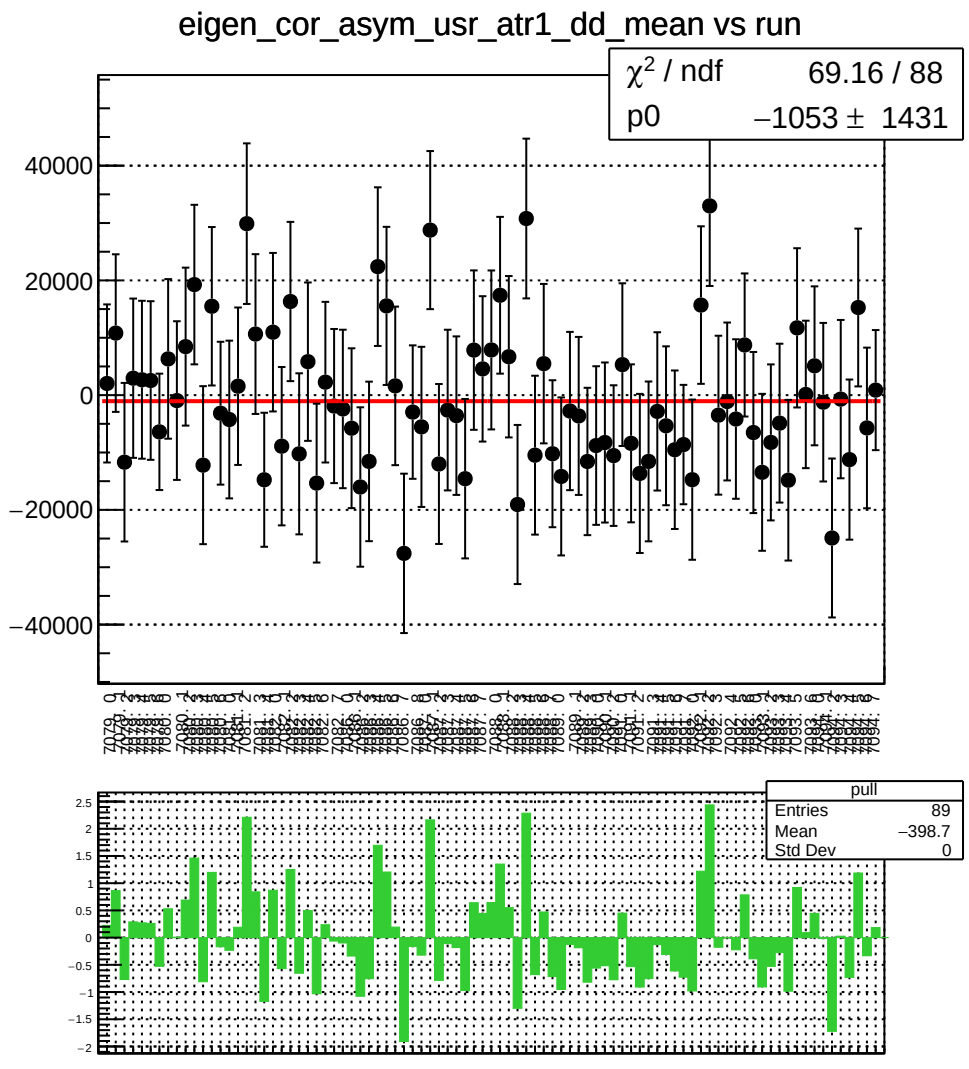

pull1D
Entries 89
Mean 0.008021
Std Dev 0.8815
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

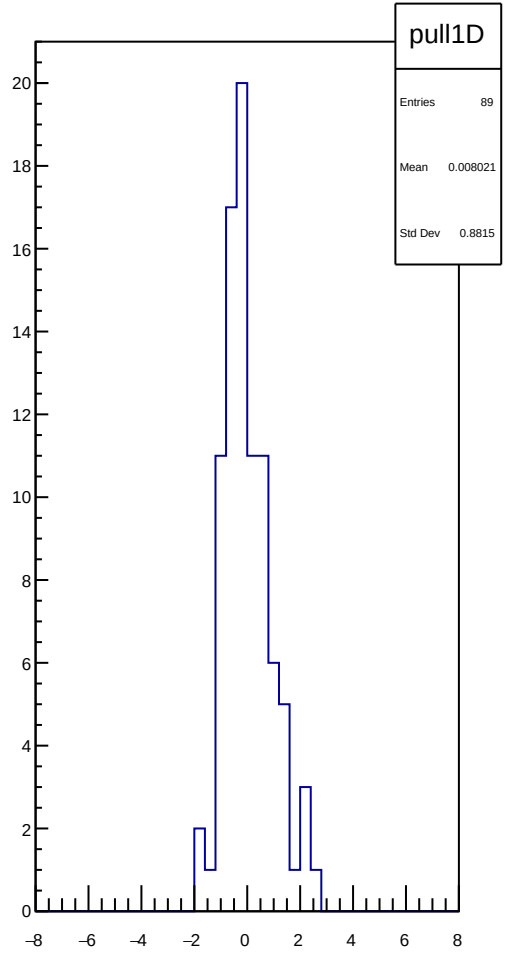

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 88.46 / 88
p0 1314 ± 1.012
1360
1350
1340
1330
1320
1310
1300
1290
1280

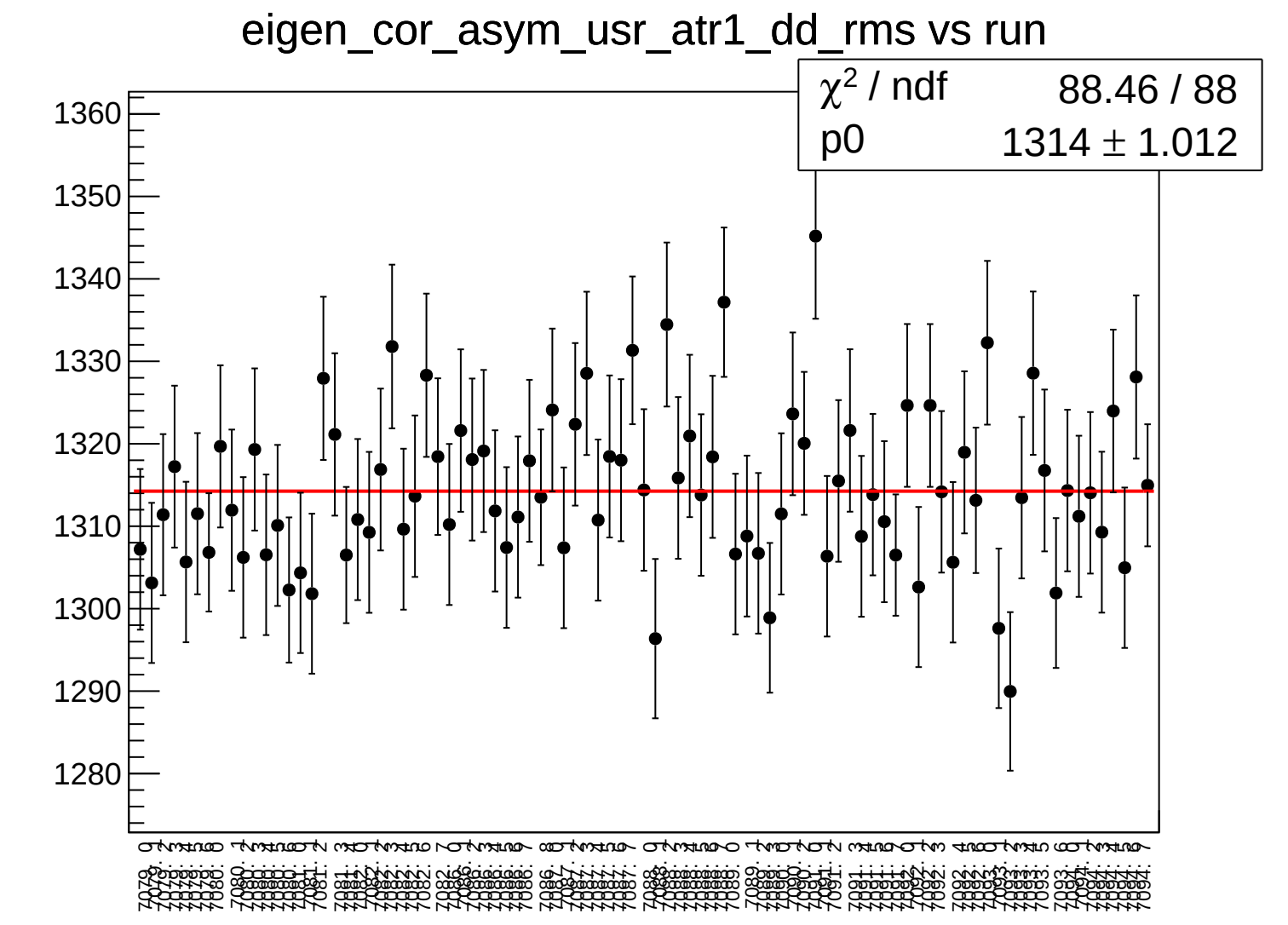

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 84.4 / 88
p0 820.4 ± 732.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −215.9
Std Dev 0
2
1
0
−1
−2
−3

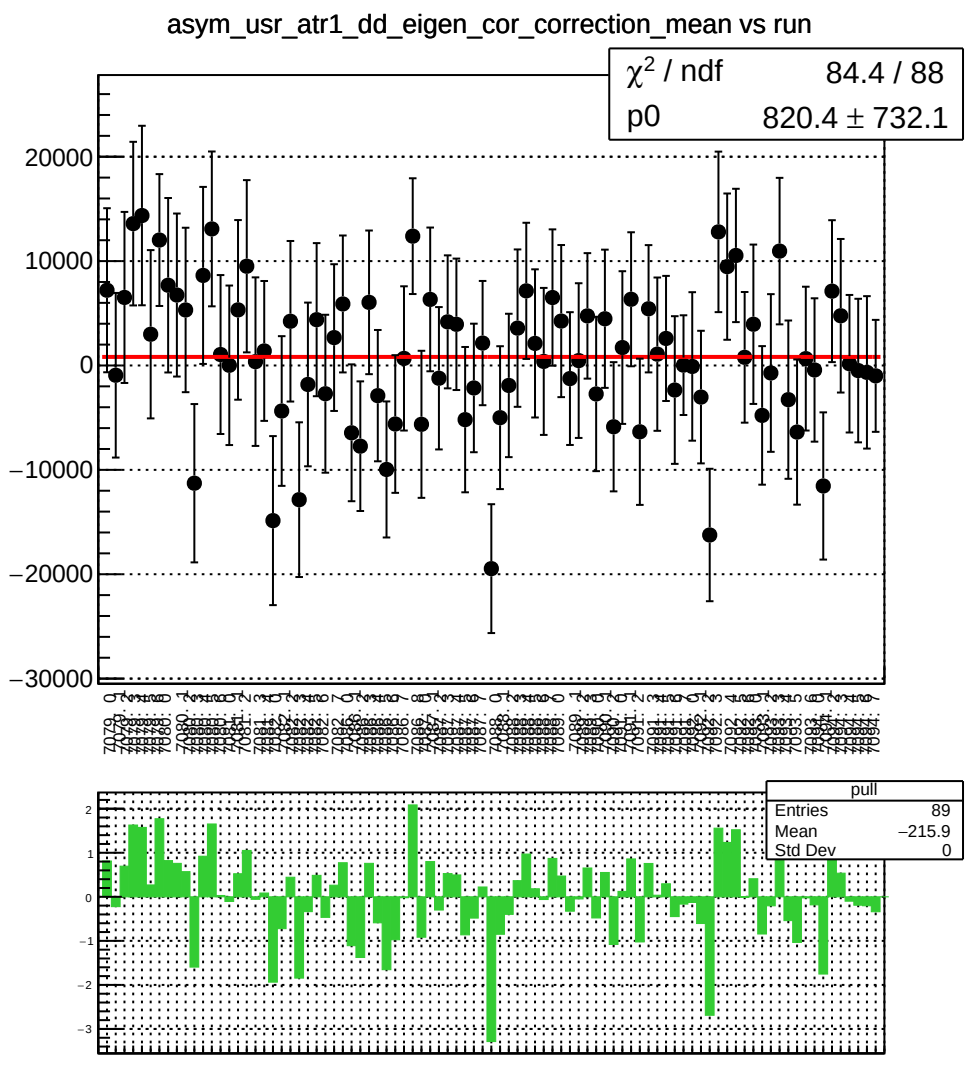

pull1D
Entries 89
Mean 0.01371
Std Dev 0.9737
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

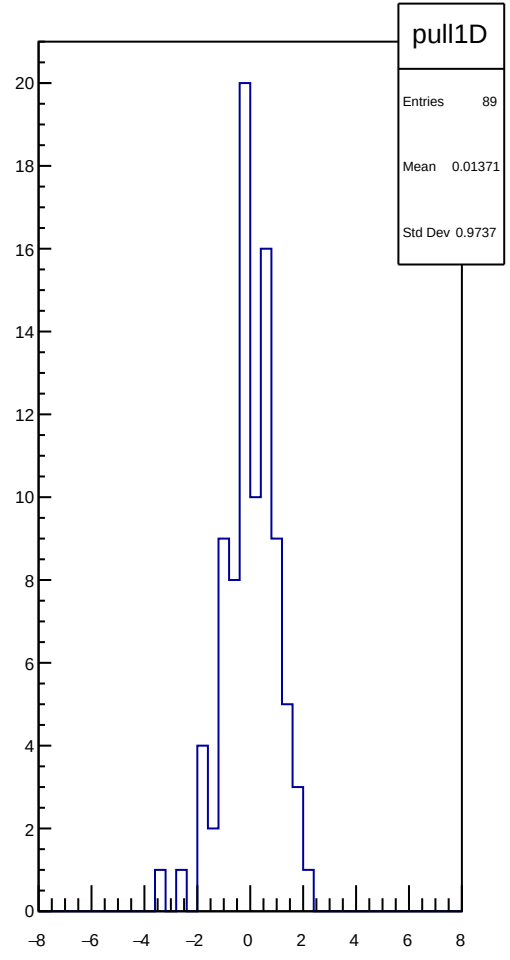

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.359e+04 / 88
p0 669.5 ± 0.5176
800
750
700
650
600
550

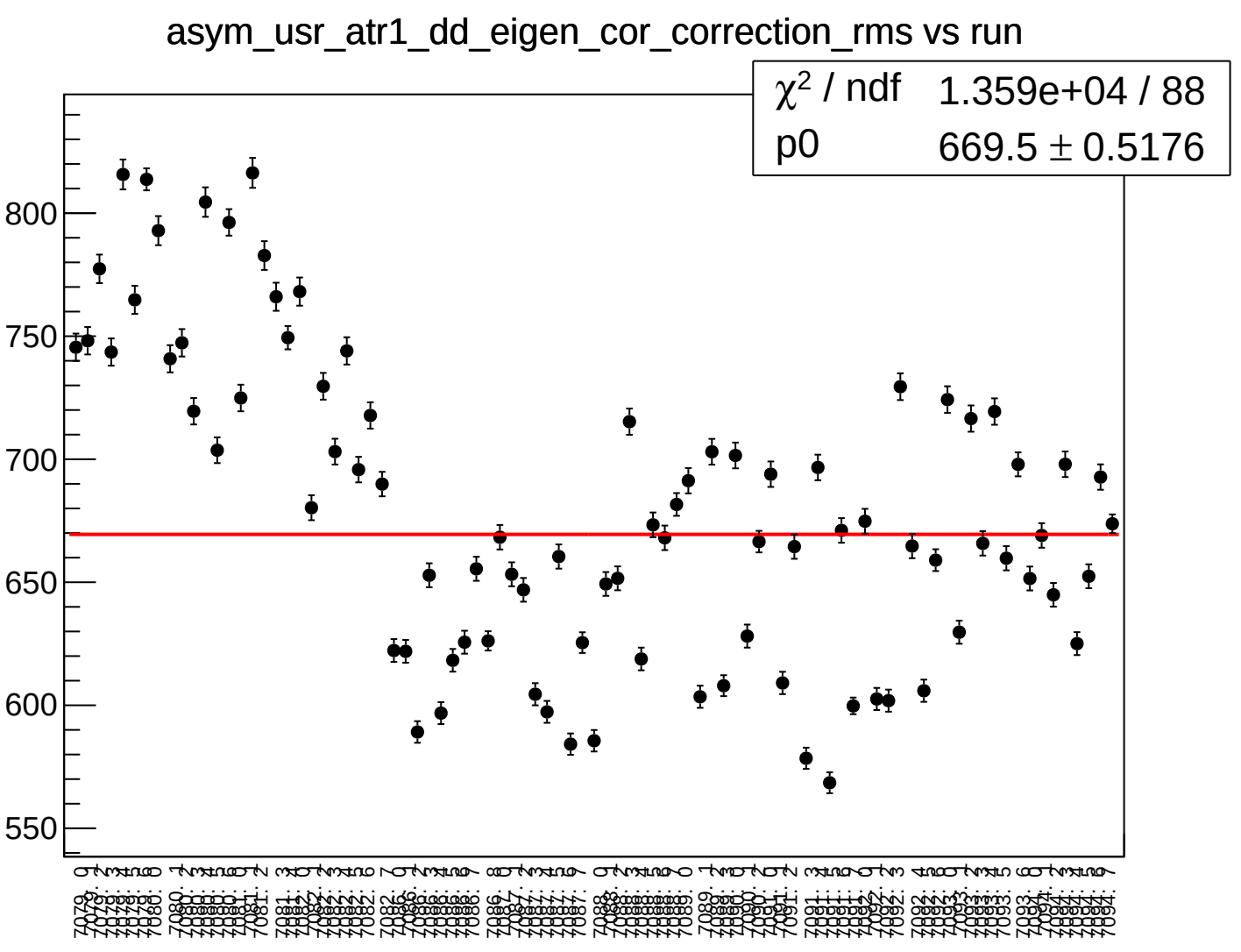

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 69.16 / 88
p0 −1053 ± 1431
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −398.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

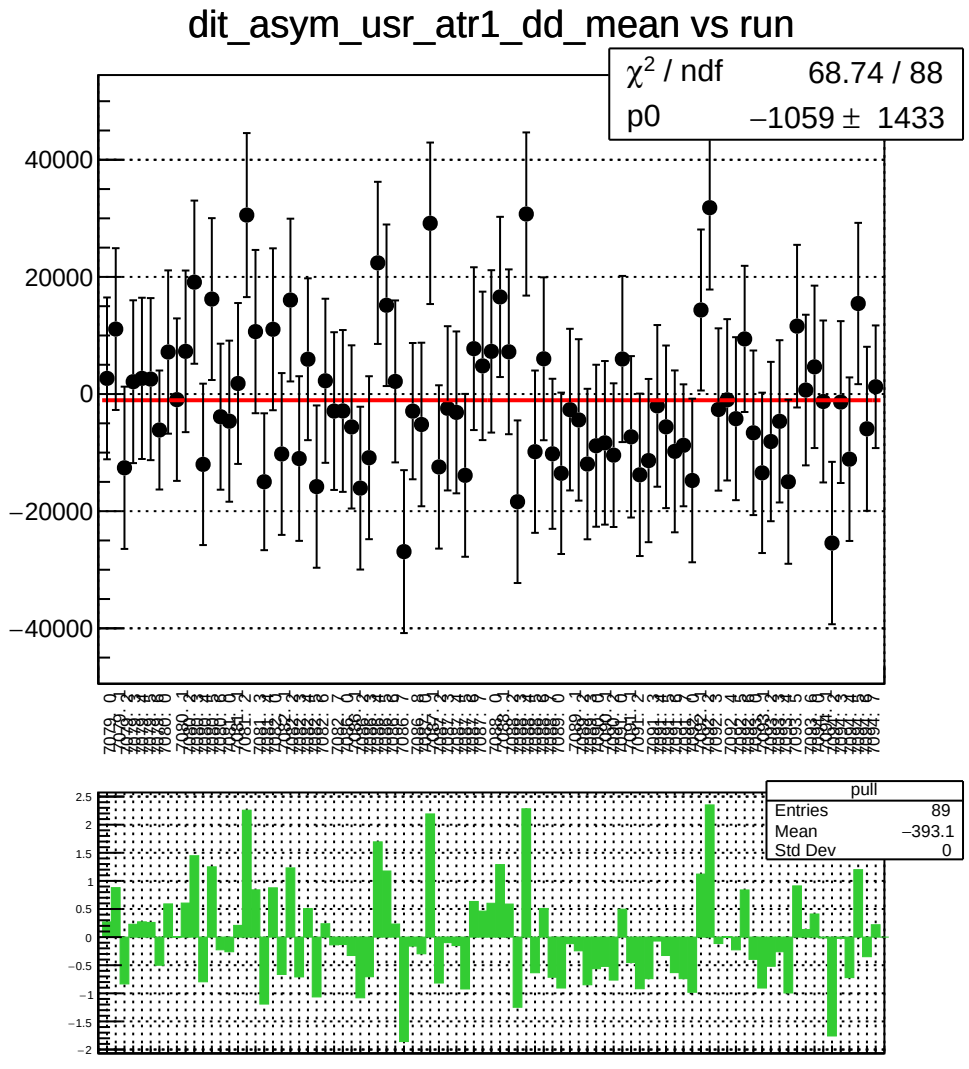

pull1D
Entries 89
Mean 0.008021
Std Dev 0.8815
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

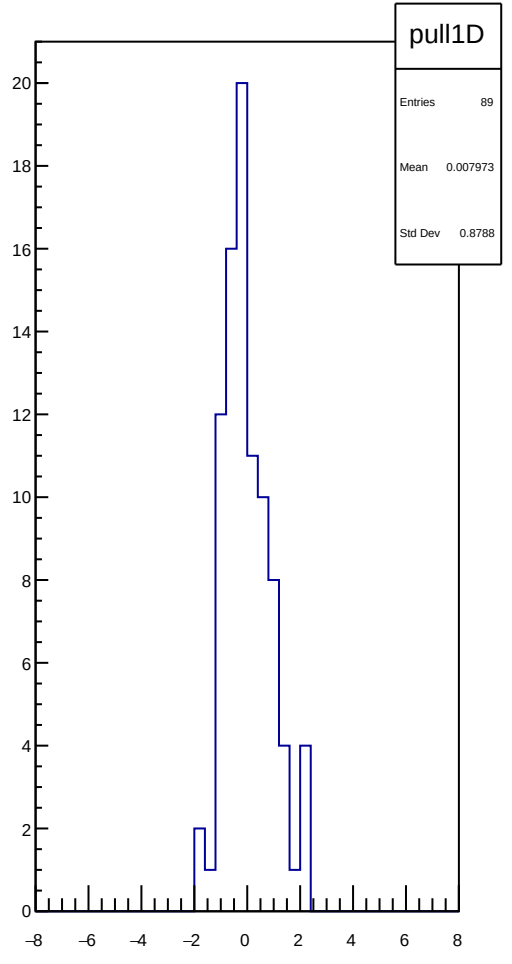

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 88.46 / 88
p0 1314 ± 1.012
1360
1350
1340
1330
1320
1310
1300
1290
1280

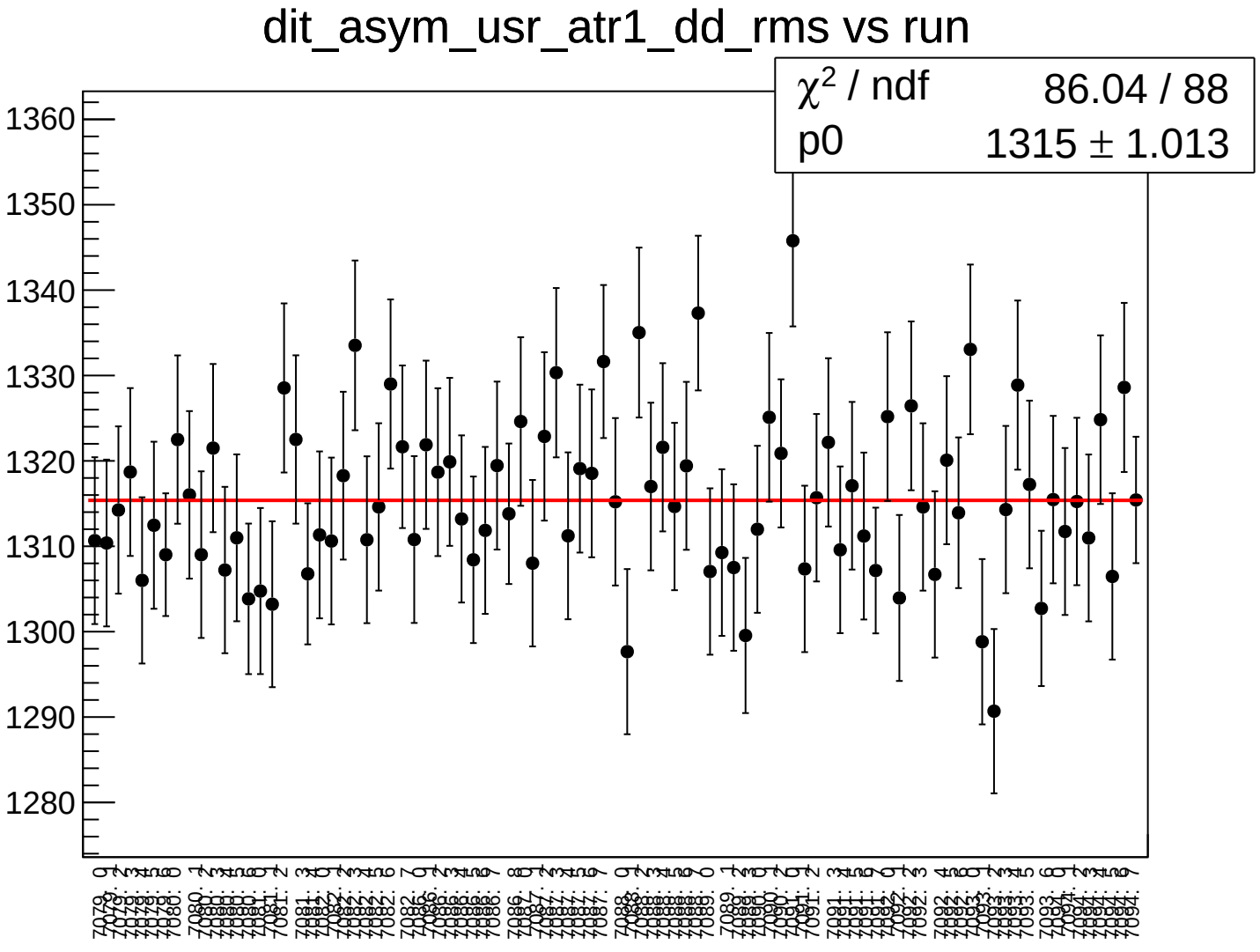

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.4 / 88
p0 820.4 ± 732.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −215.9
Std Dev 0
2
1
0
−1
−2
−3

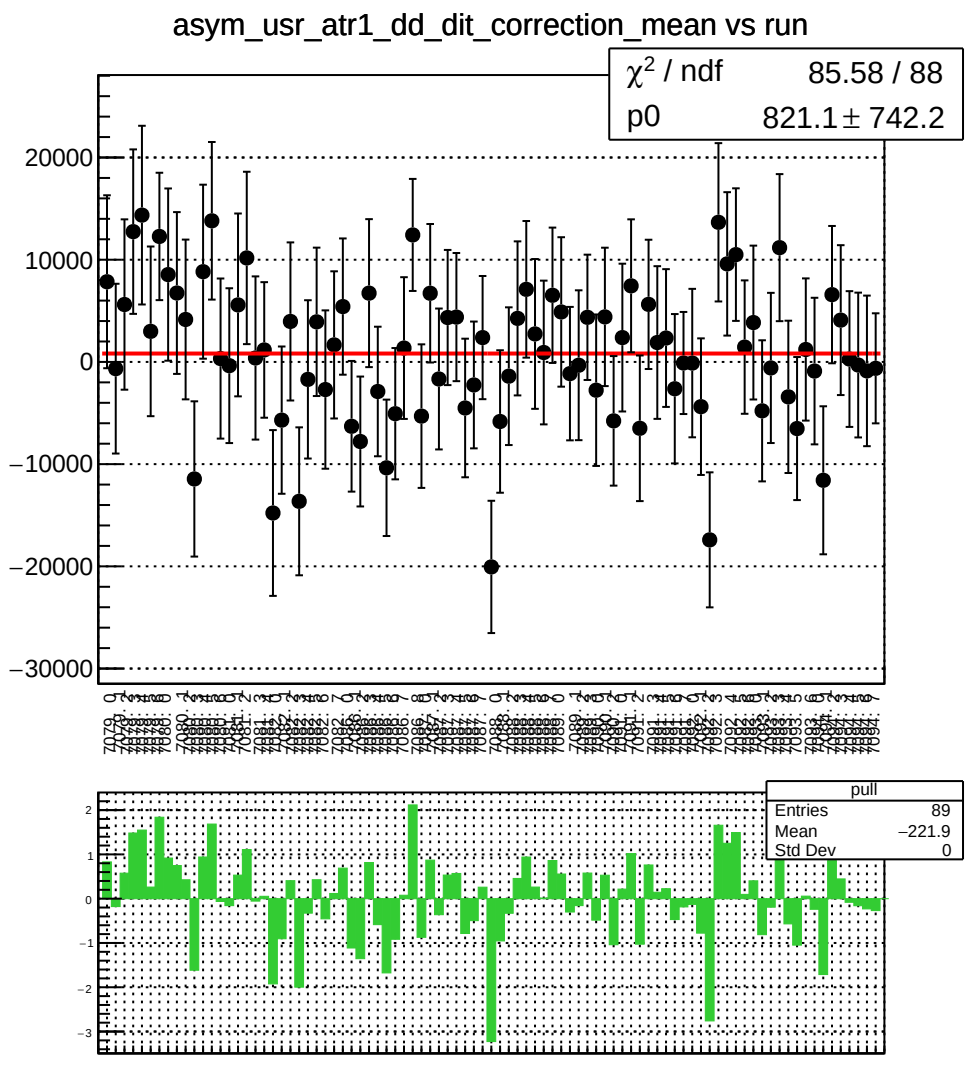

pull1D
Entries 89
Mean 0.01371
Std Dev 0.9737
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

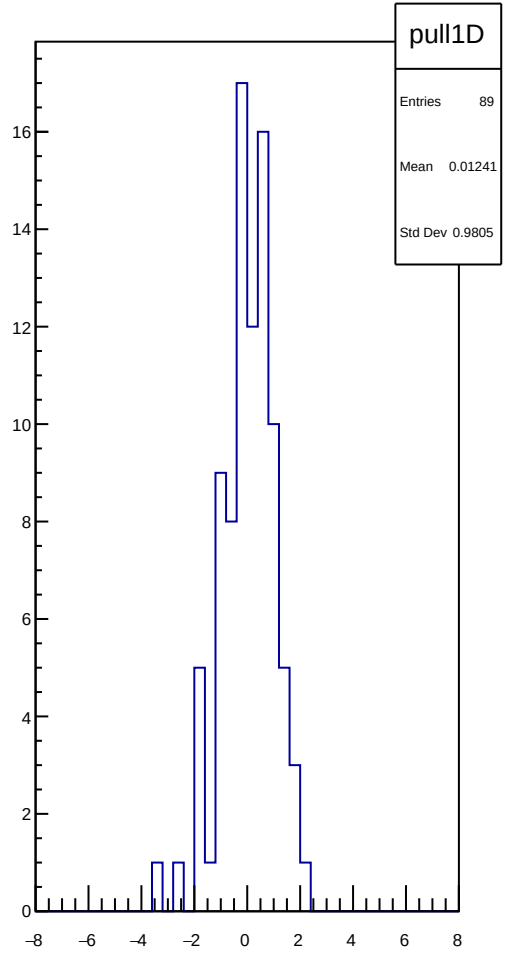

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.359e+04 / 88
p0 669.5 ± 0.5176
800
750
700
650
600
550

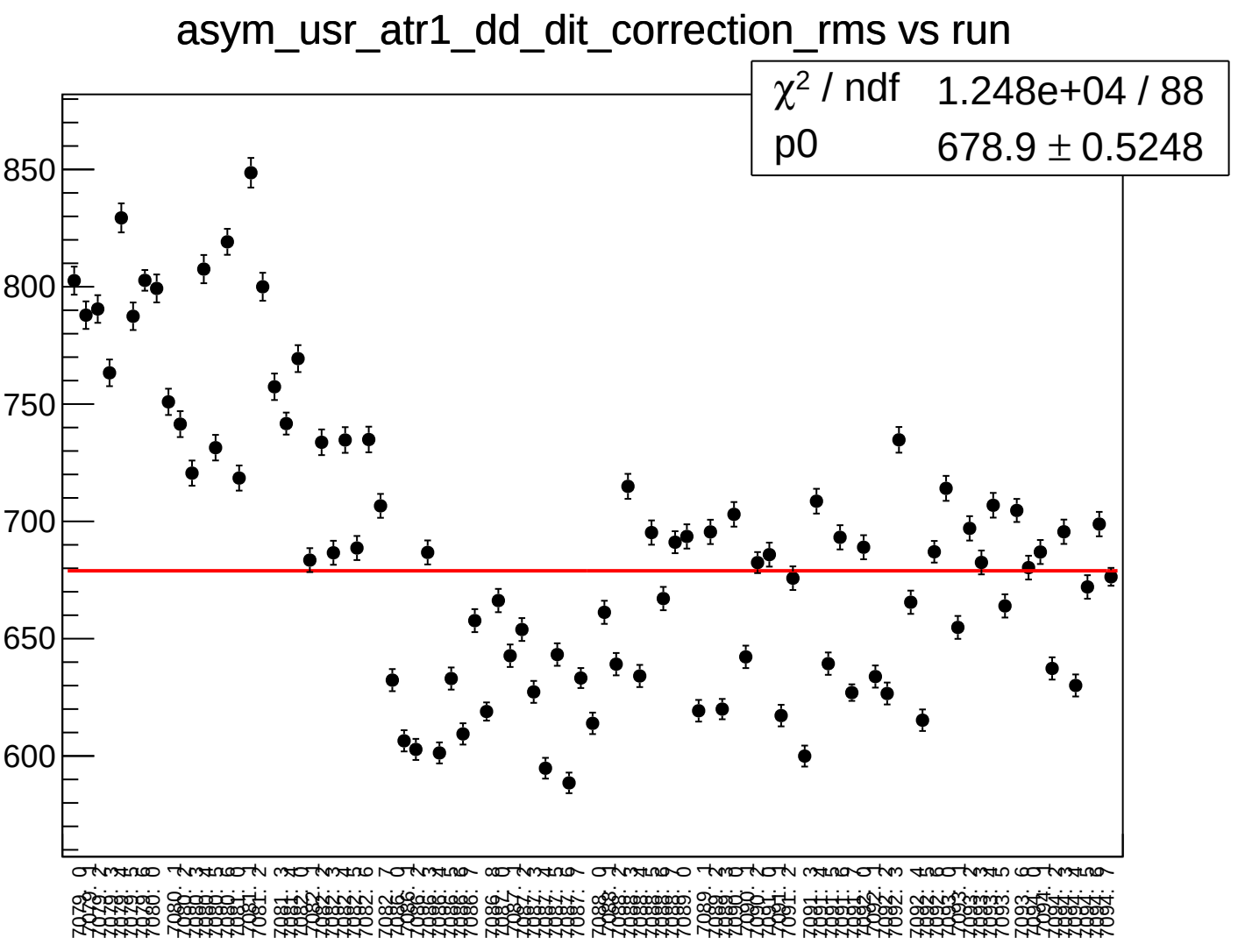

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 68.74 / 88
p0 −1059 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −393.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

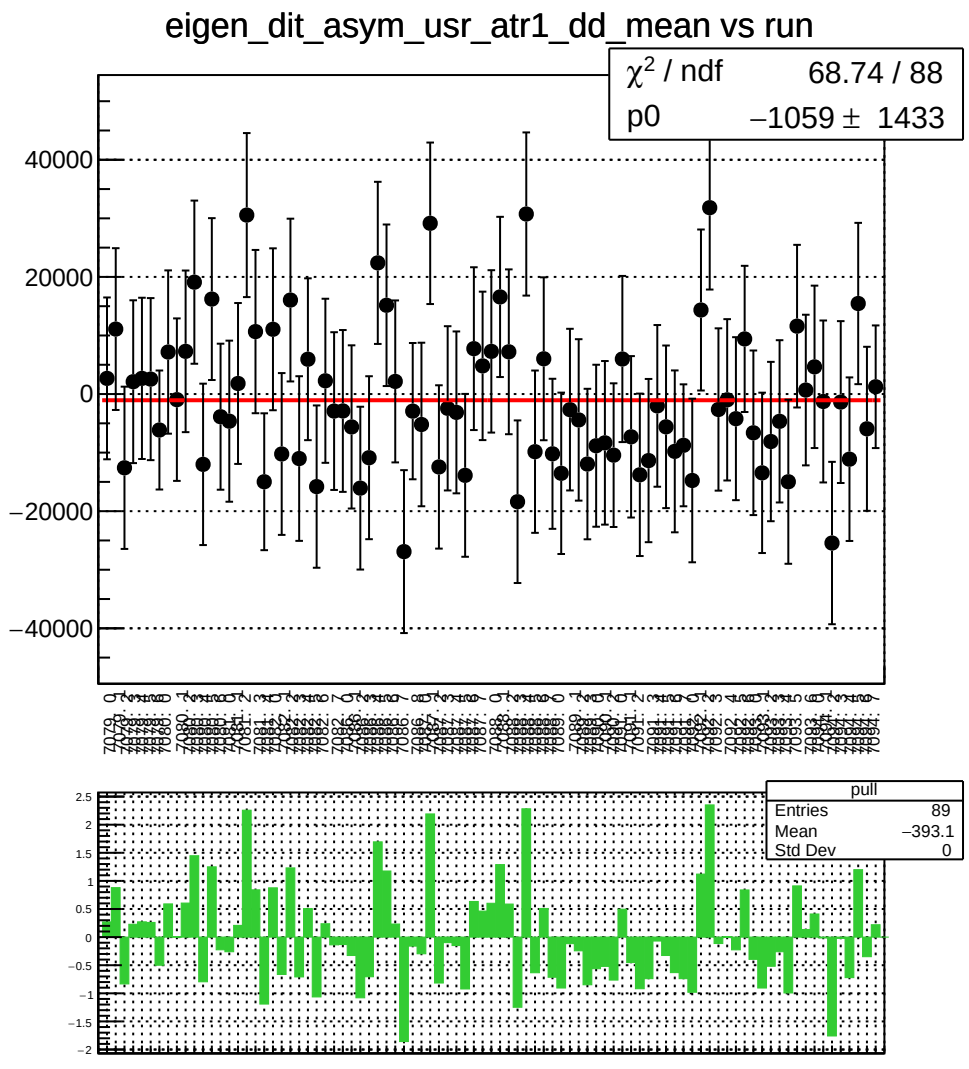

pull1D
Entries 89
Mean 0.007973
Std Dev 0.8788
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

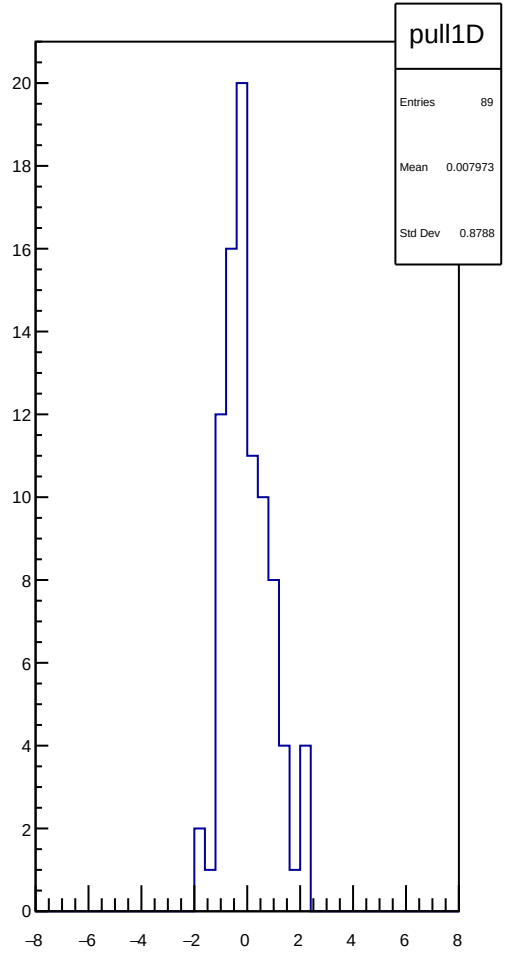

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 86.04 / 88
p0 1315 ± 1.013
1360
1350
1340
1330
1320
1310
1300
1290
1280

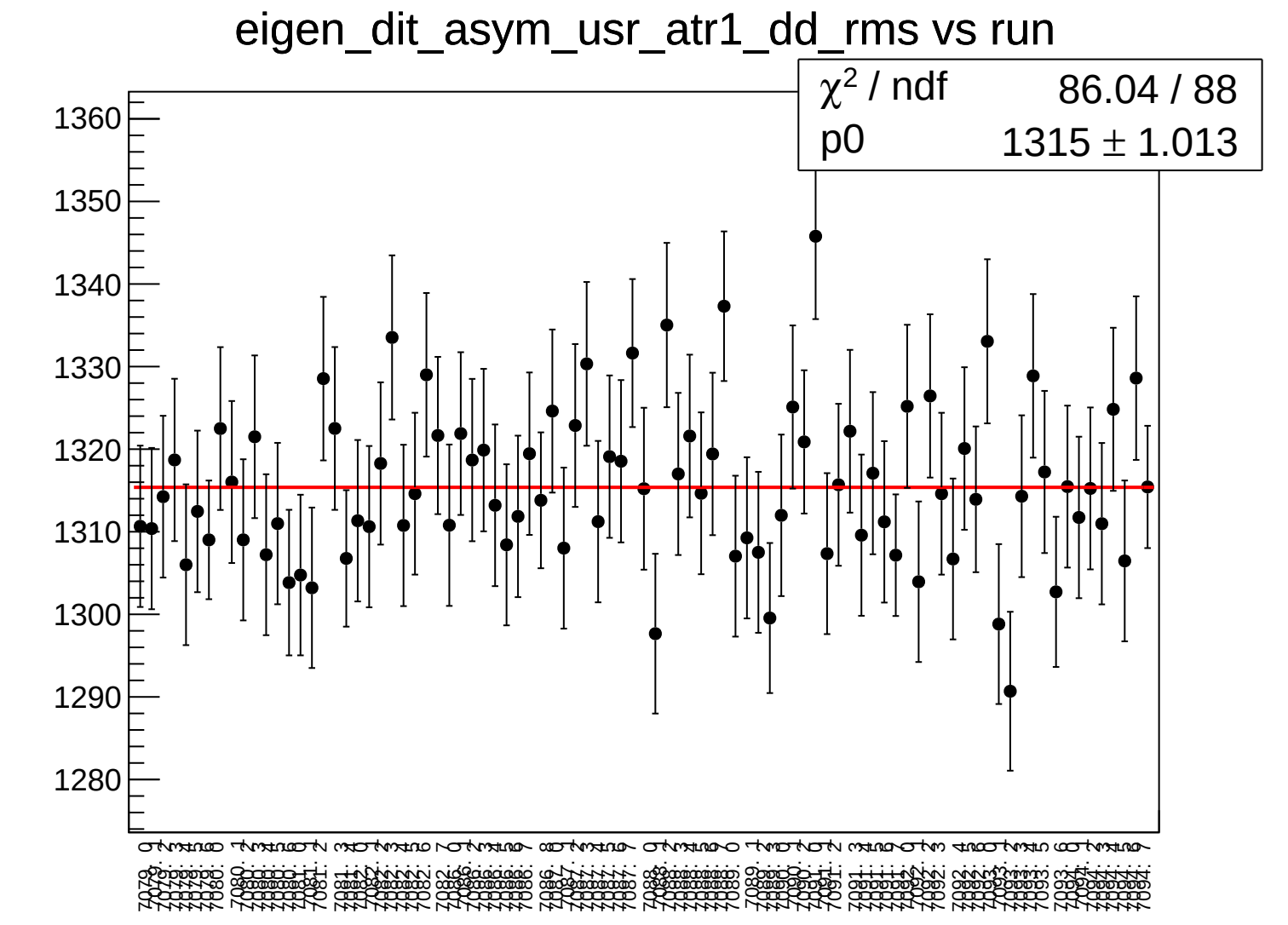

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 85.58 / 88
p0 821.1 ± 742.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −221.9
Std Dev 0
2
1
0
−1
−2
−3

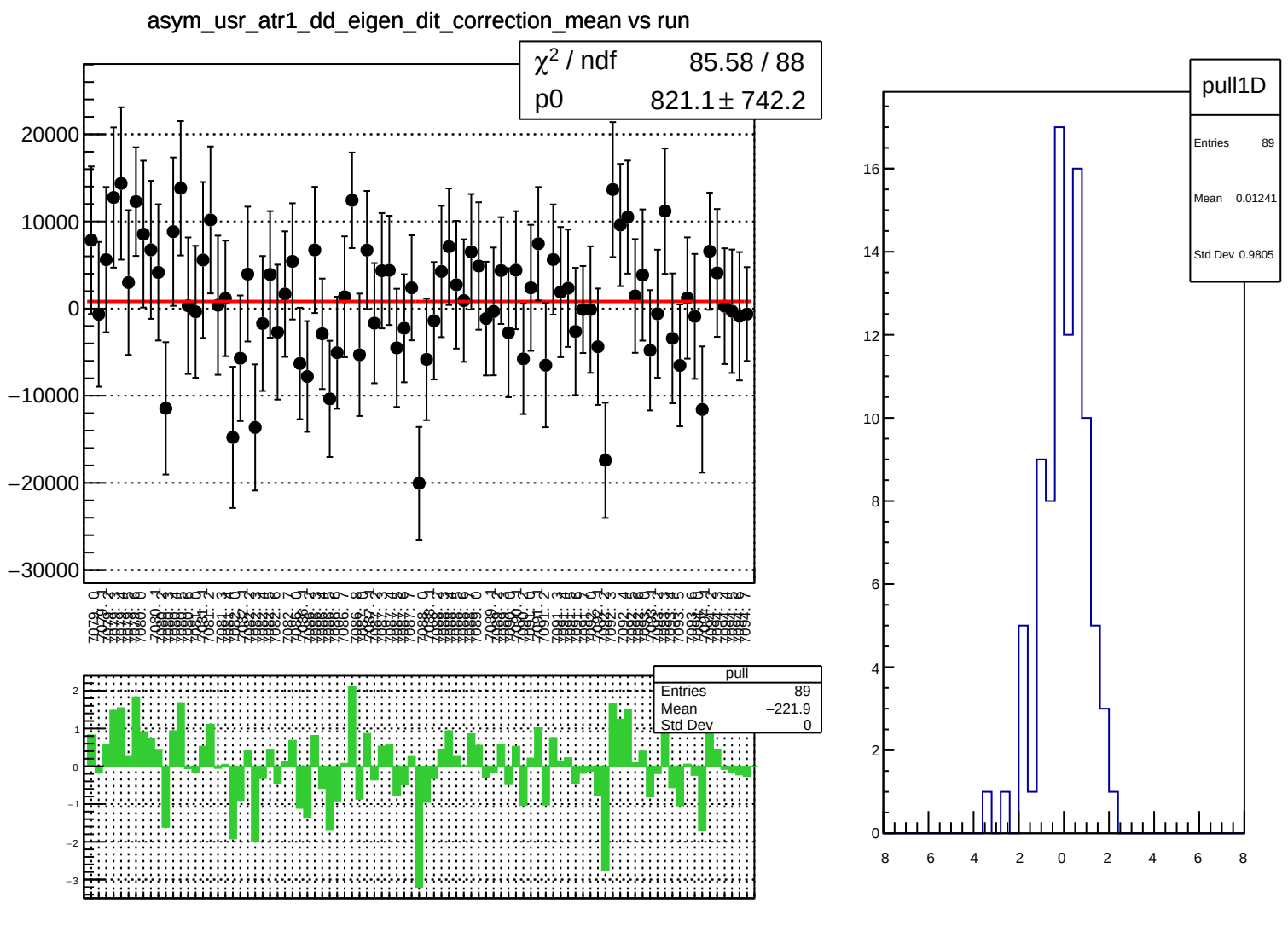

pull1D
Entries 89
Mean 0.01241
Std Dev 0.9805
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

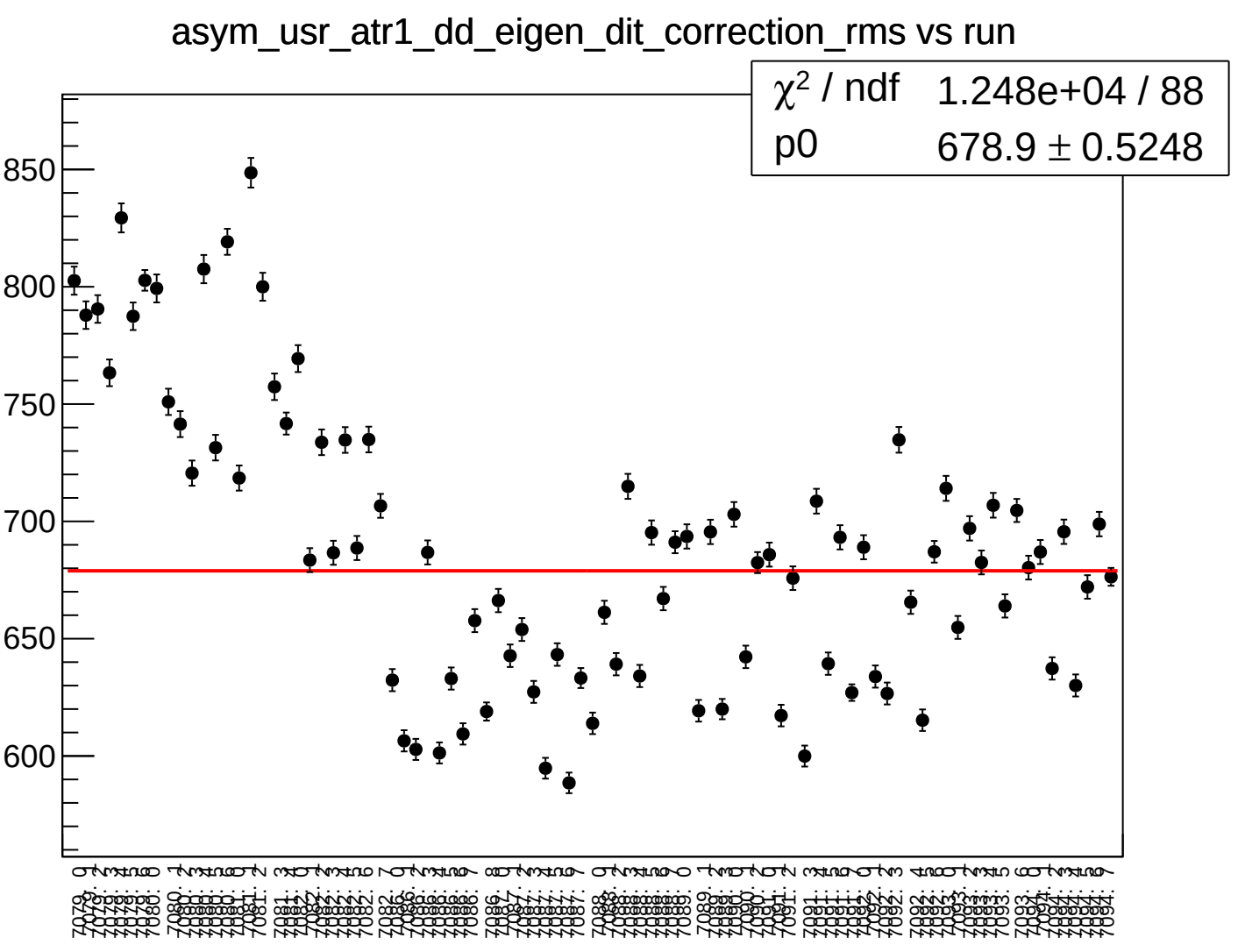

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.248e+04 / 88
p0 678.9 ± 0.5248
850
800
750
700
650
600

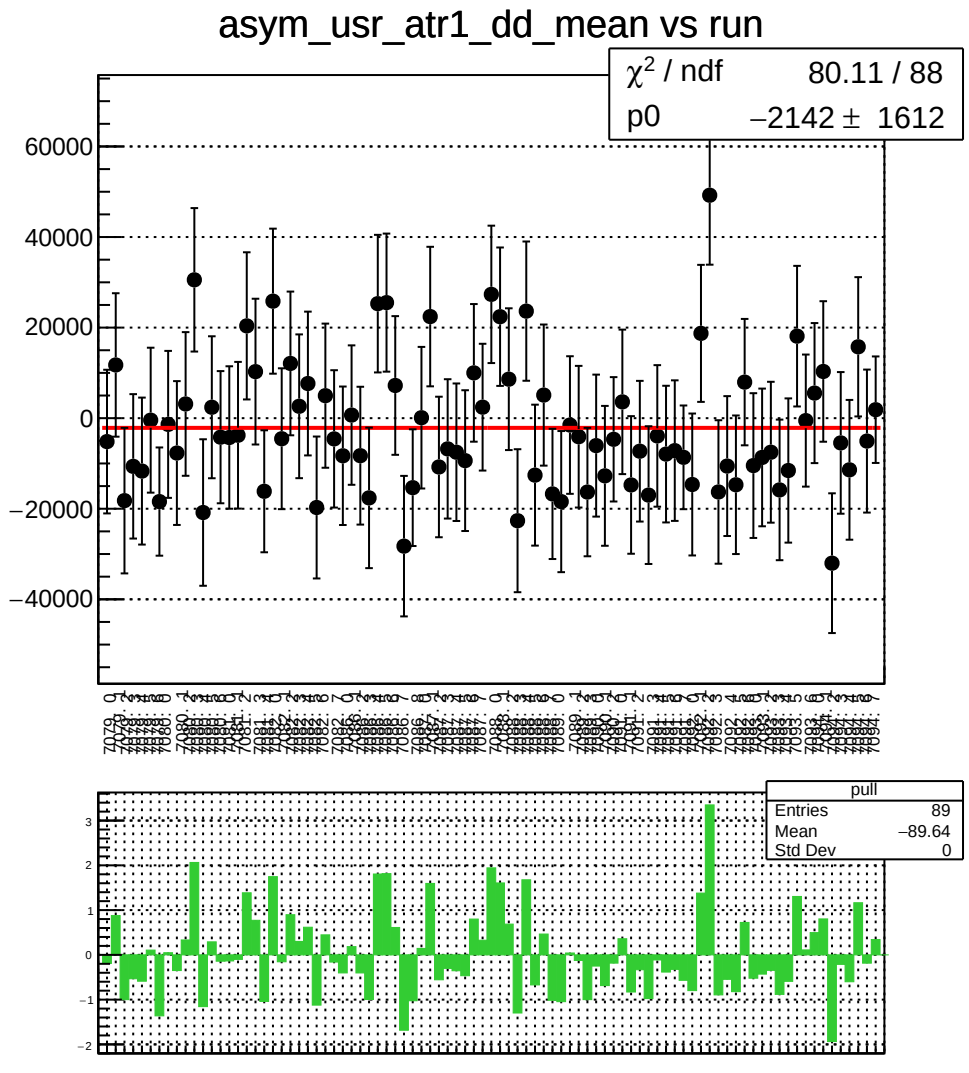

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 68.74 / 88
p0 −1059 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −393.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

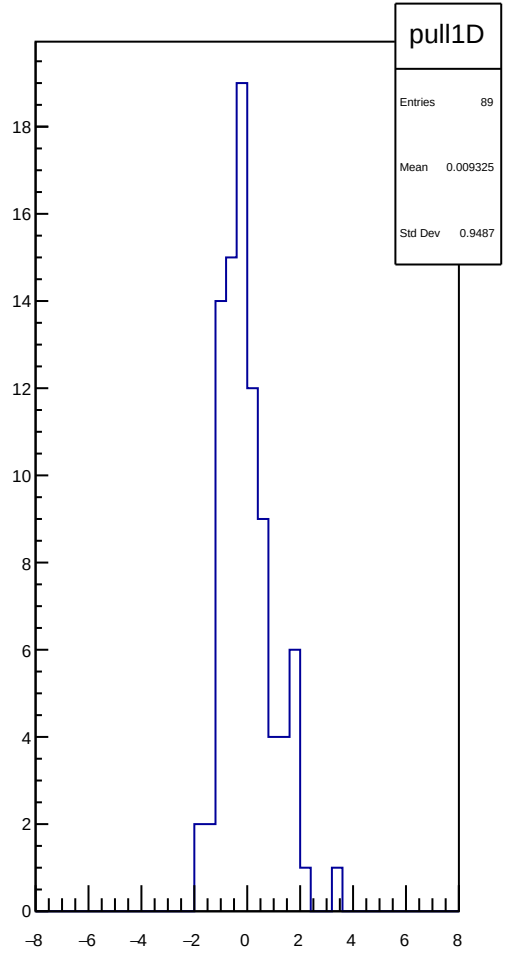

pull1D
Entries 89
Mean 0.007973
Std Dev 0.8788
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

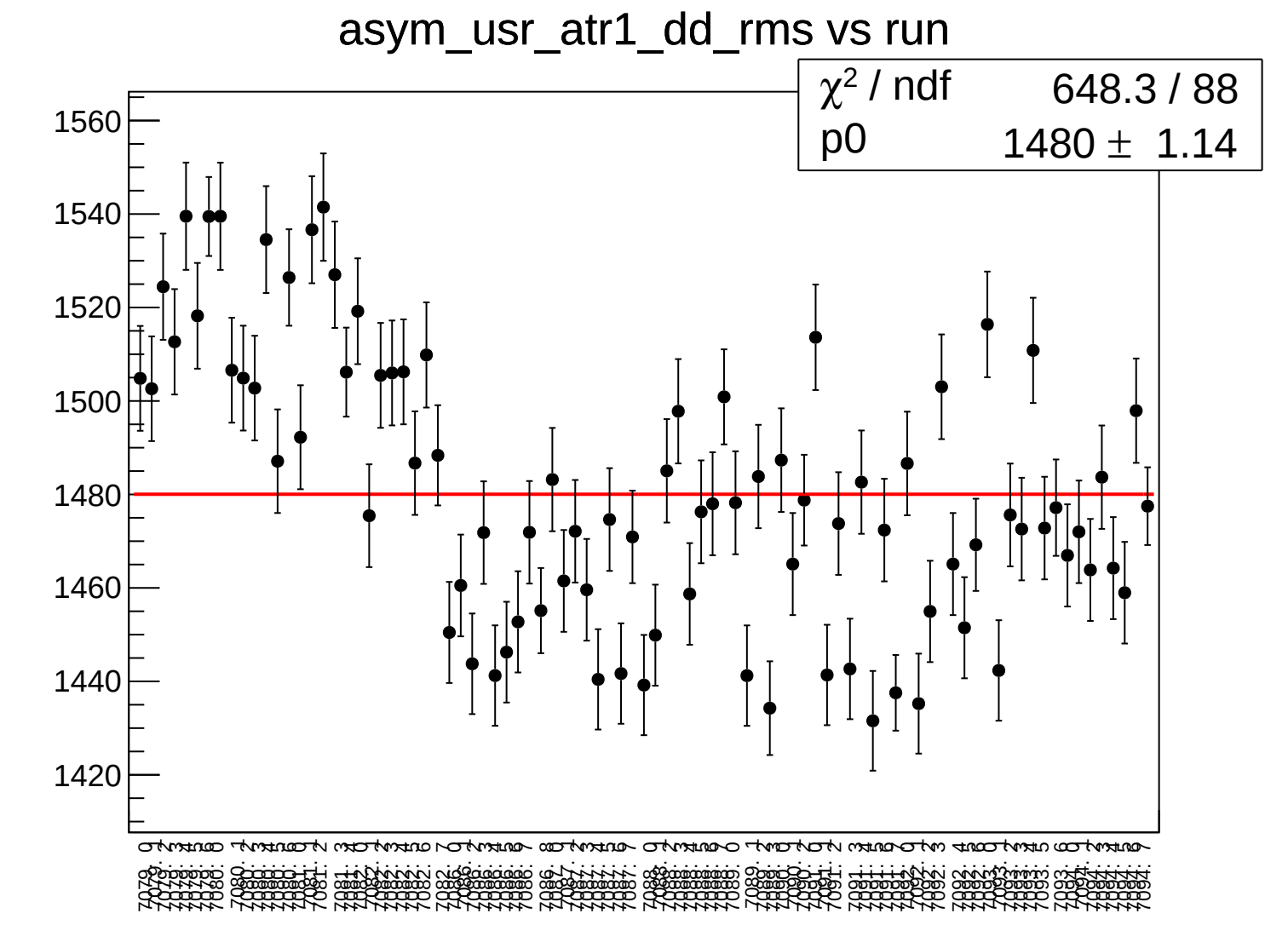

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 86.04 / 88
p0 1315 ± 1.013
1360
1350
1340
1330
1320
1310
1300
1290
1280

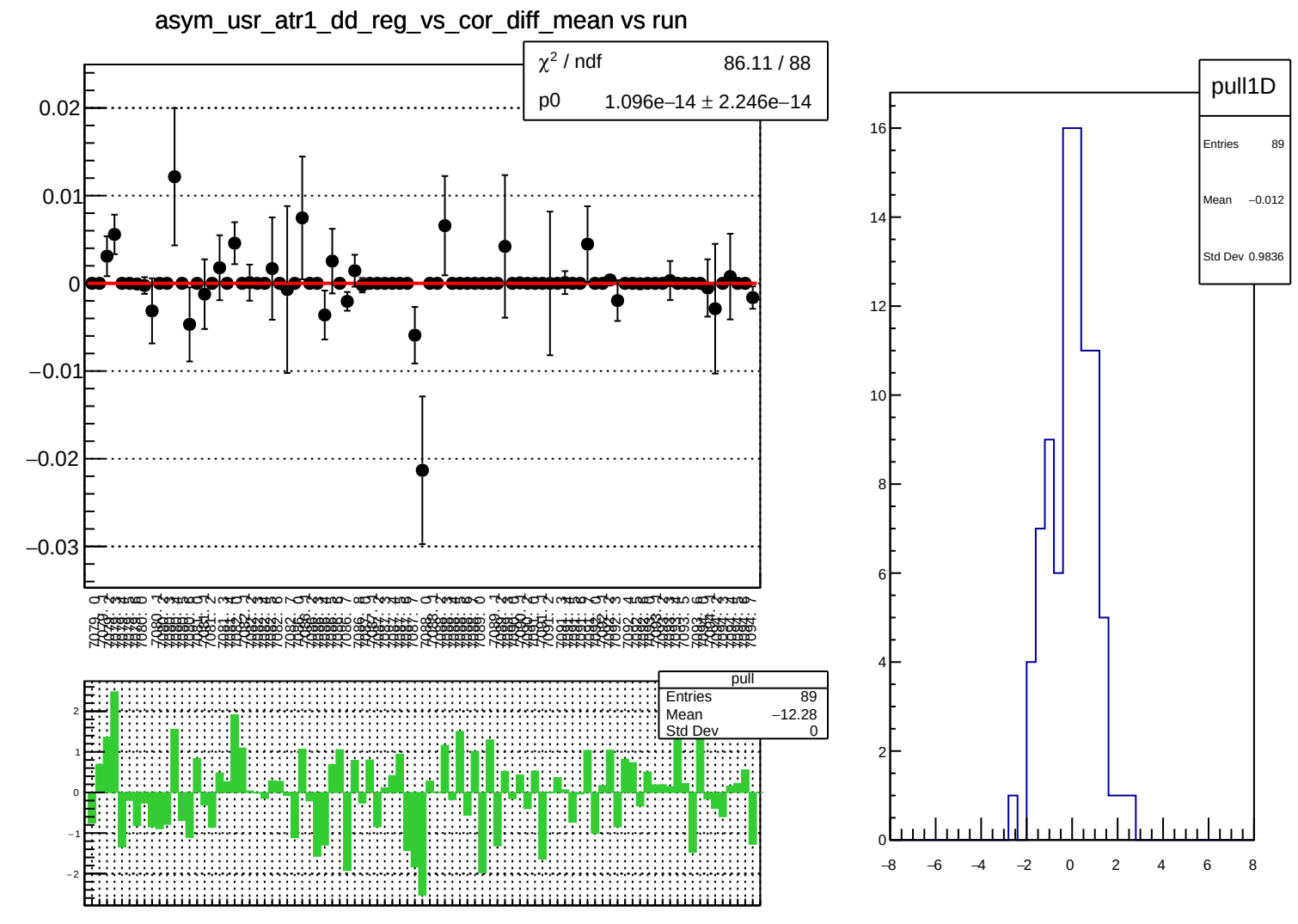

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.58 / 88
p0 821.1 ± 742.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −221.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.01241
Std Dev 0.9805
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

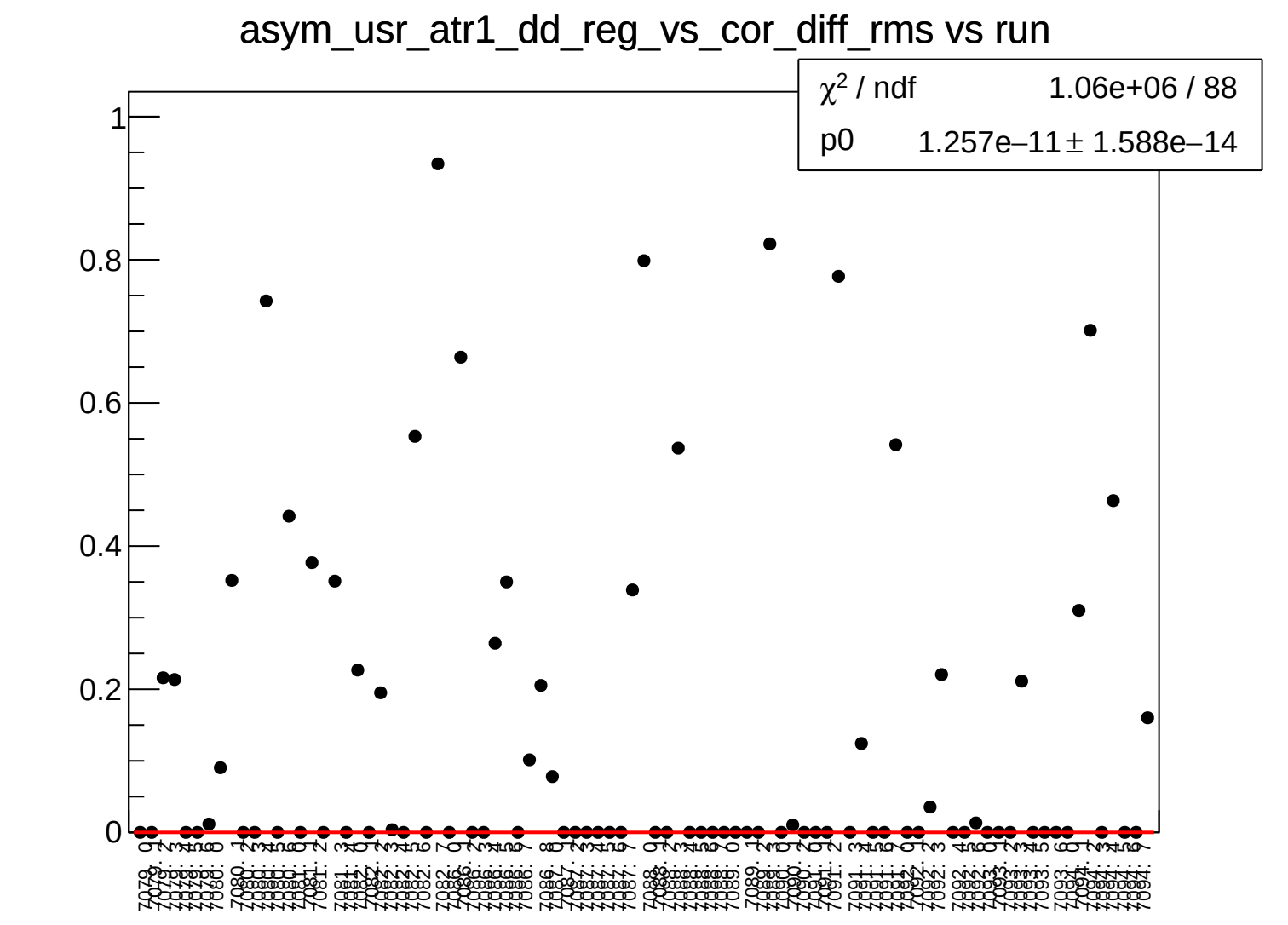

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.248e+04 / 88
p0 678.9 ± 0.5248
850
800
750
700
650
600

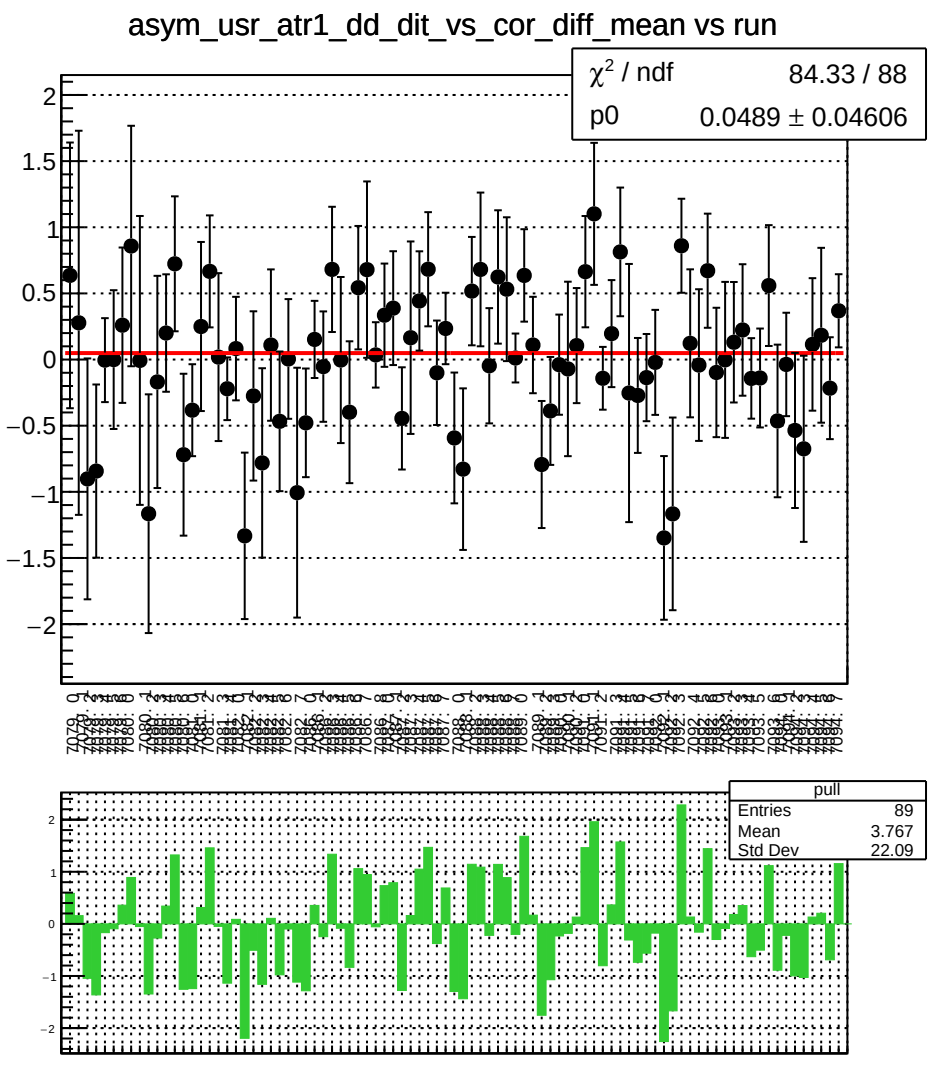

asym_usr_atr1_dd_mean vs run
χ² / ndf 80.11 / 88
p0 −2142 ± 1612
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −89.64
Std Dev 0
3
2
1
0
−1
−2

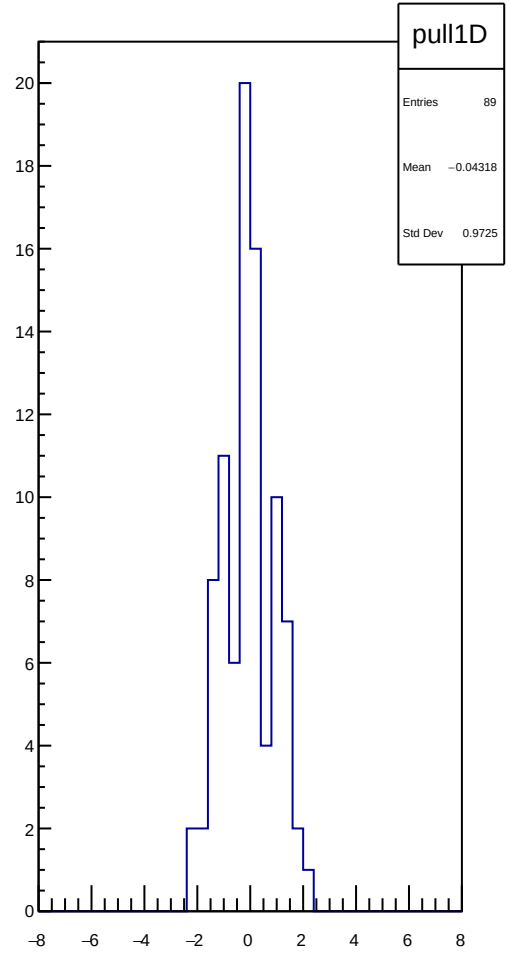

pull1D
Entries 89
Mean 0.009325
Std Dev 0.9487
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

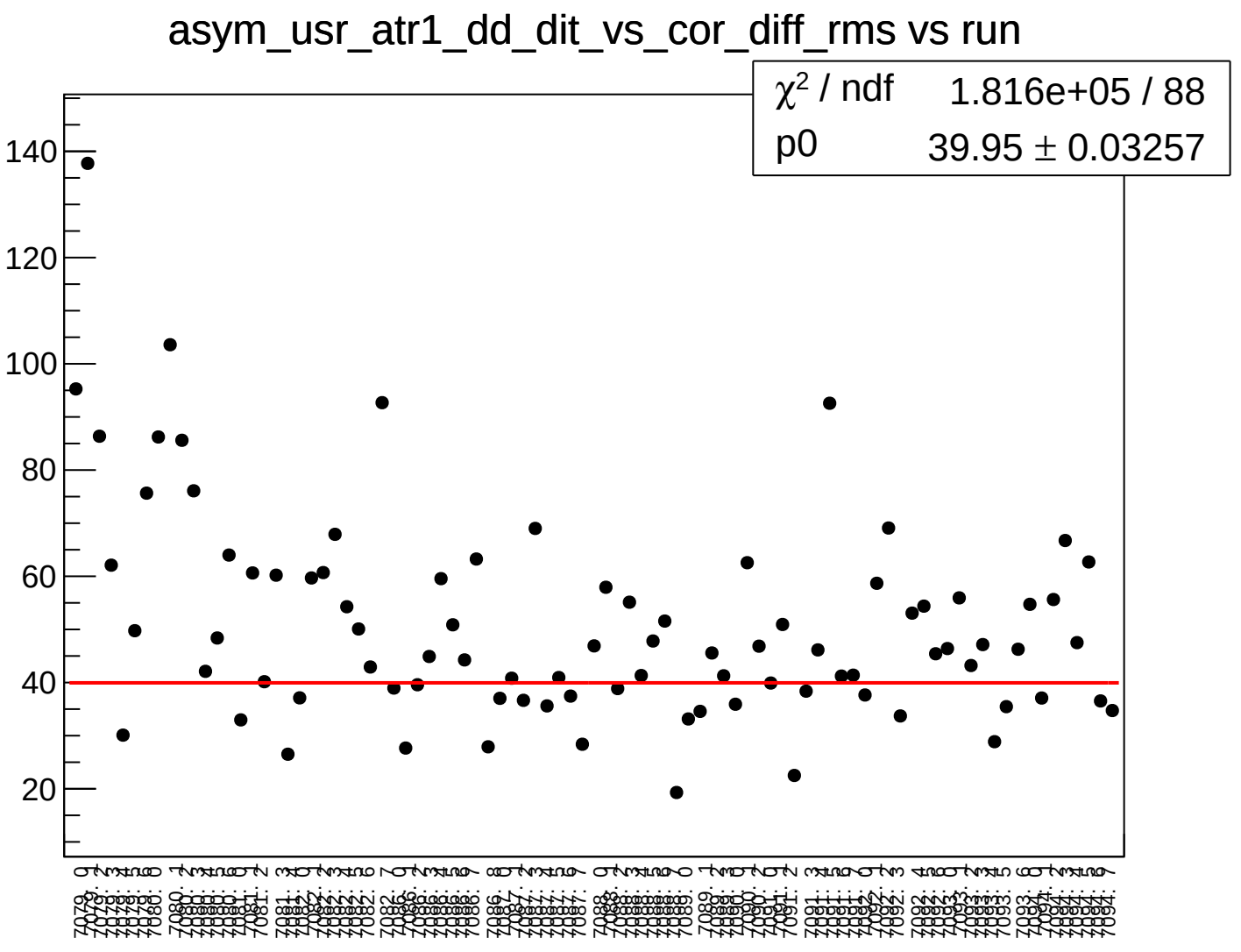

asym_usr_atr1_dd_rms vs run
χ² / ndf 648.3 / 88
p0 1480 ± 1.14
1560
1540
1520
1500
1480
1460
1440
1420

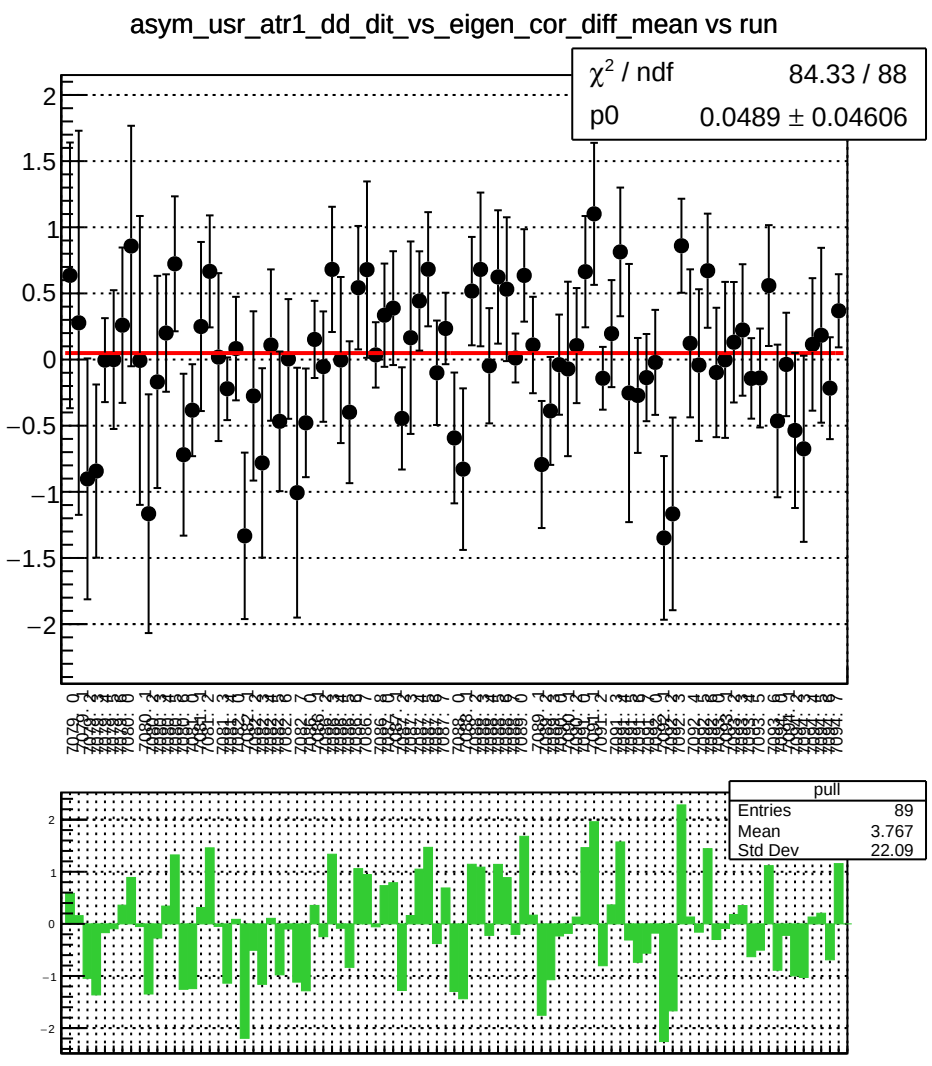

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.11 / 88
p0 1.096e−14 ± 2.246e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean −12.28
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.012
Std Dev 0.9836
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

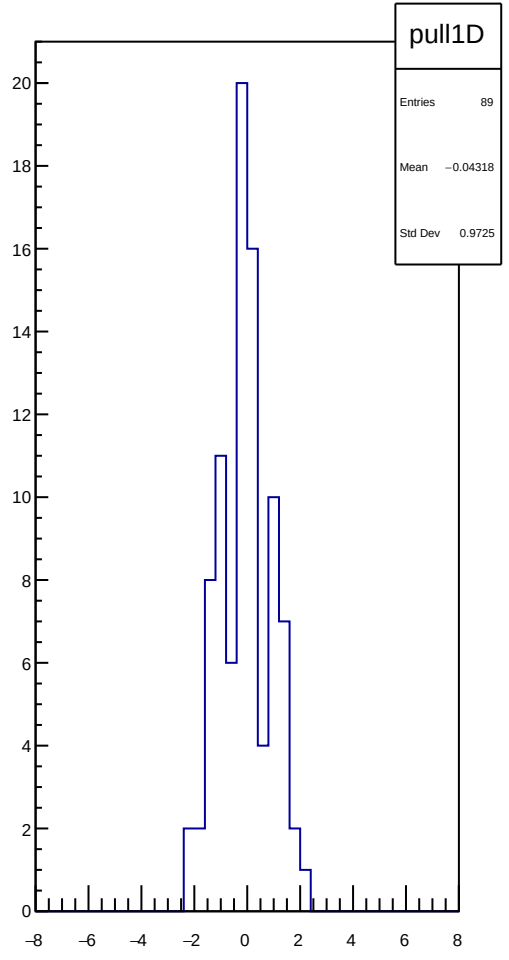

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 88
p0 1.257e−11 ± 1.588e−14
1
0.8
0.6
0.4
0.2
0

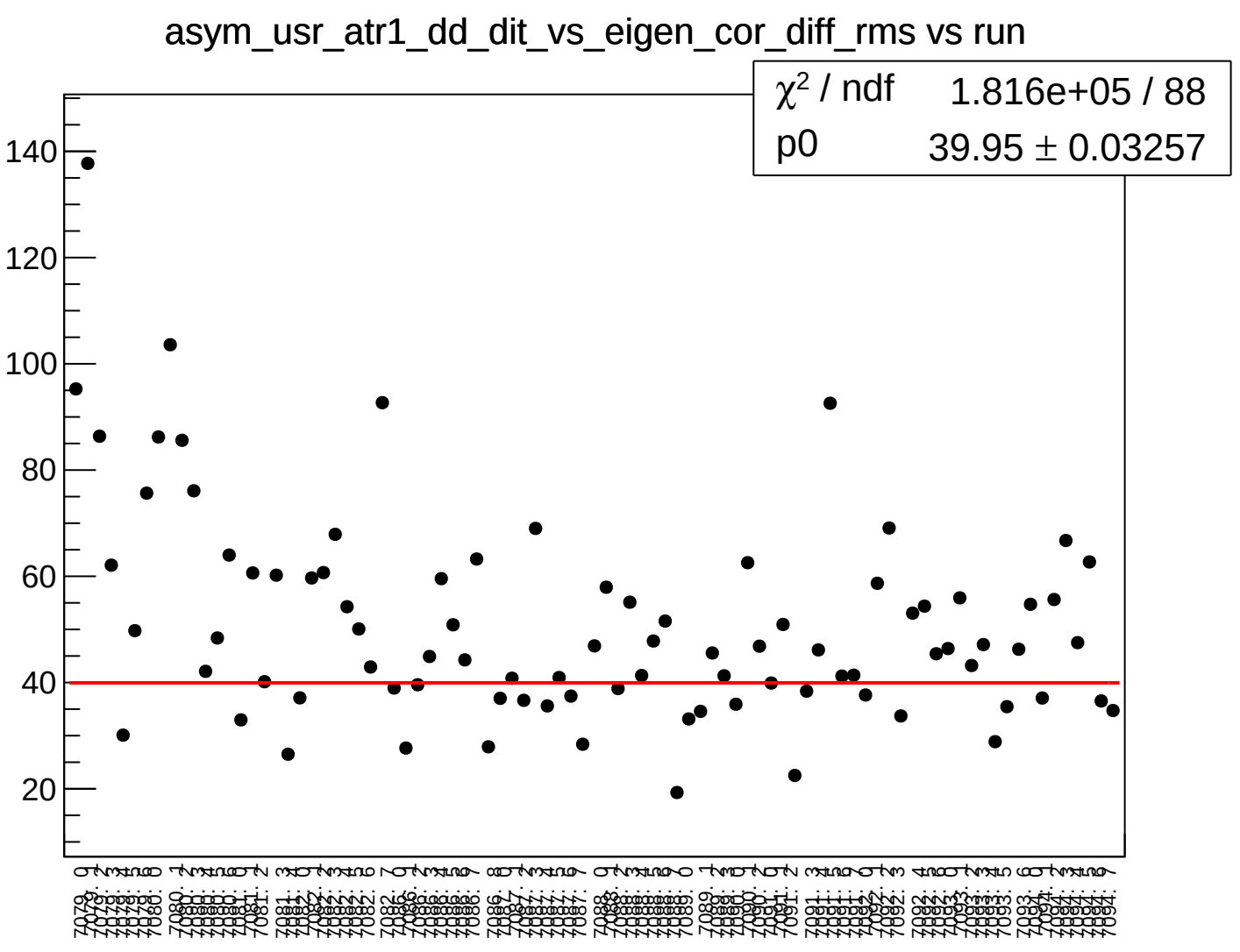

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.33 / 88
p0 0.0489 ± 0.04606
pull
Entries 89
Mean 3.767
Std Dev 22.09

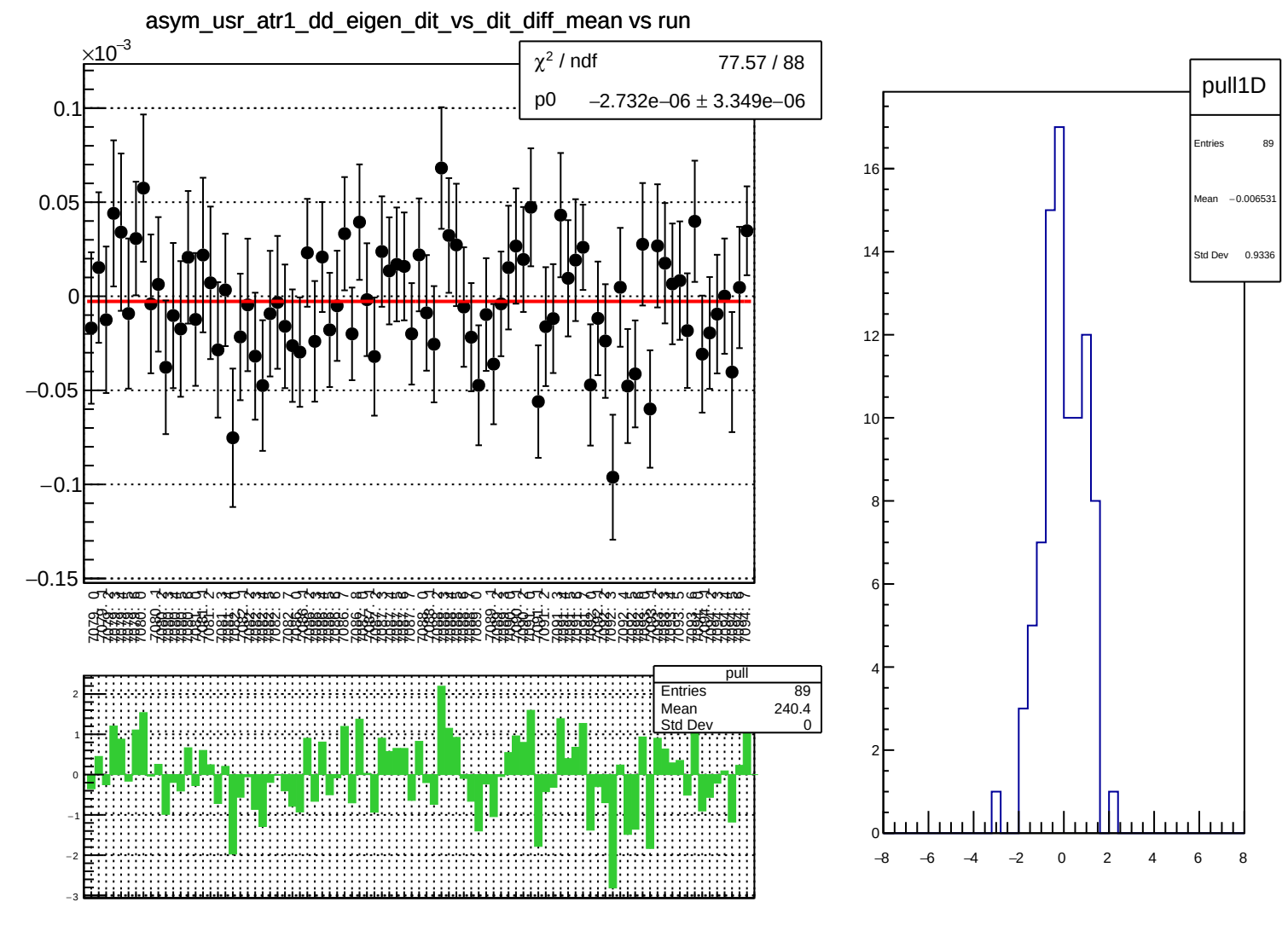

pull1D
Entries 89
Mean −0.04318
Std Dev 0.9725

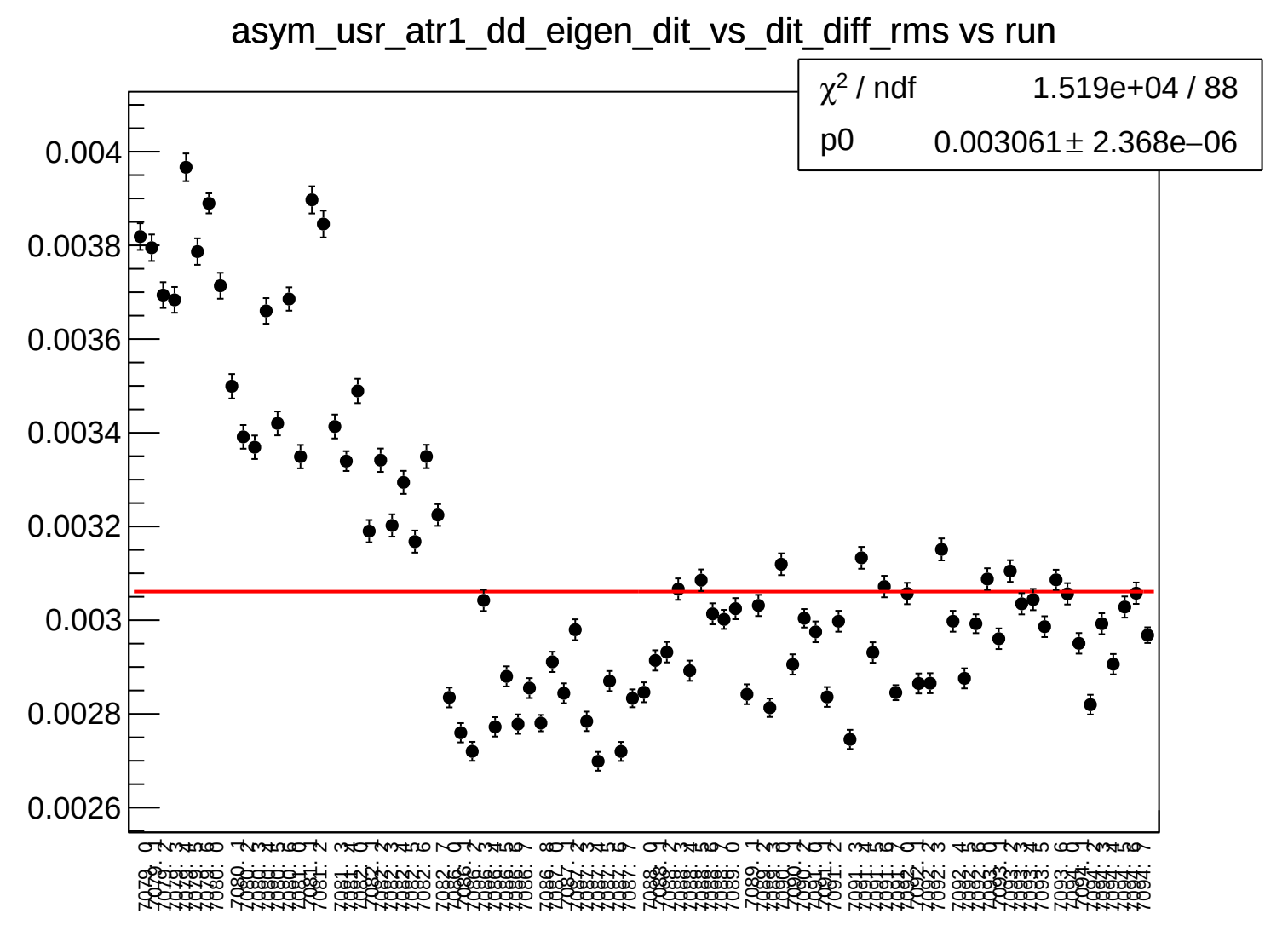

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.816e+05 / 88
p0 39.95 ± 0.03257
140
120
100
80
60
40
20

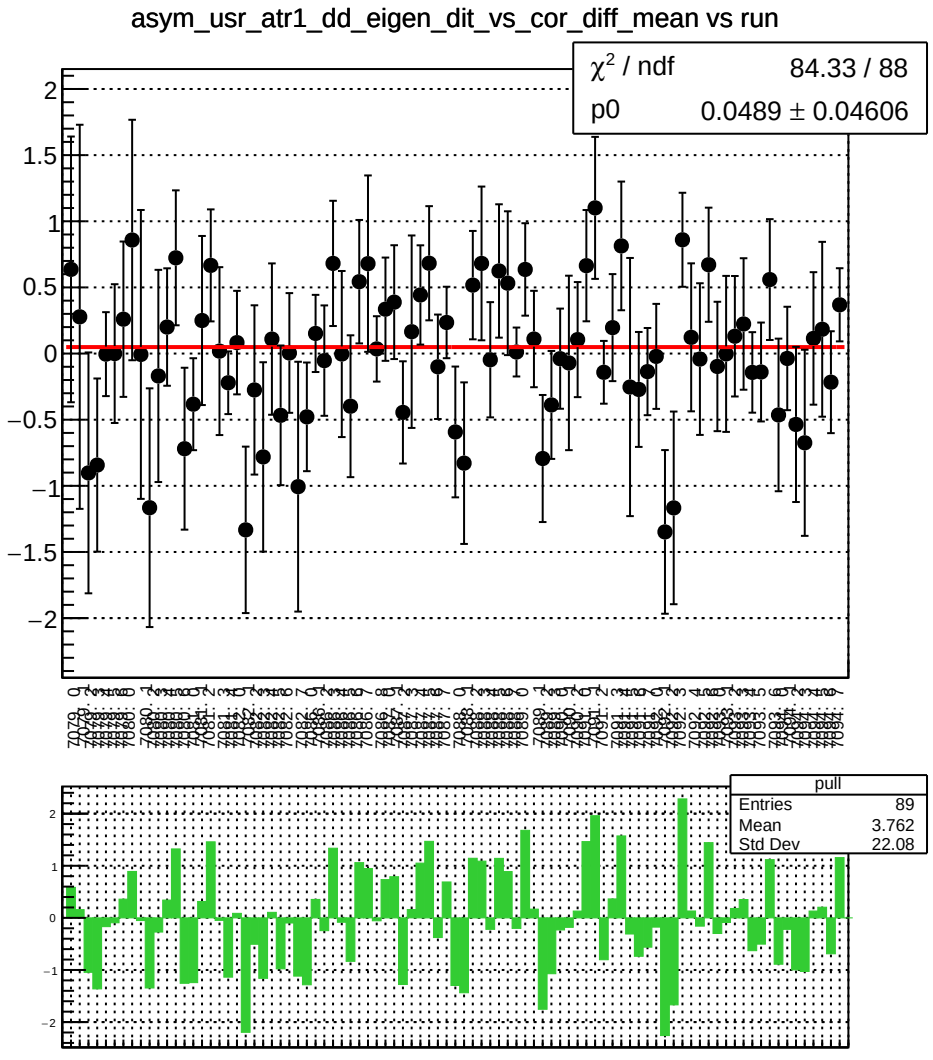

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.33 / 88
p0 0.0489 ± 0.04606
pull
Entries 89
Mean 3.767
Std Dev 22.09

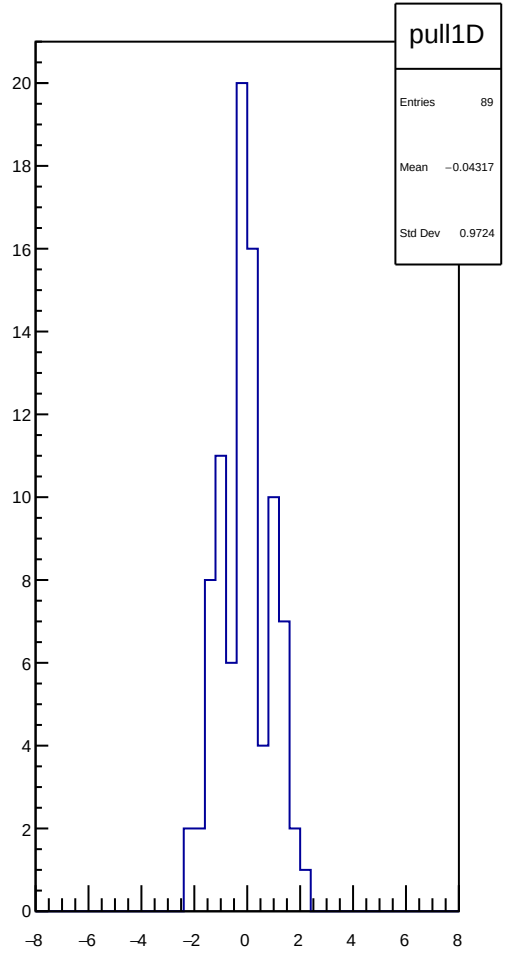

pull1D
Entries 89
Mean −0.04318
Std Dev 0.9725

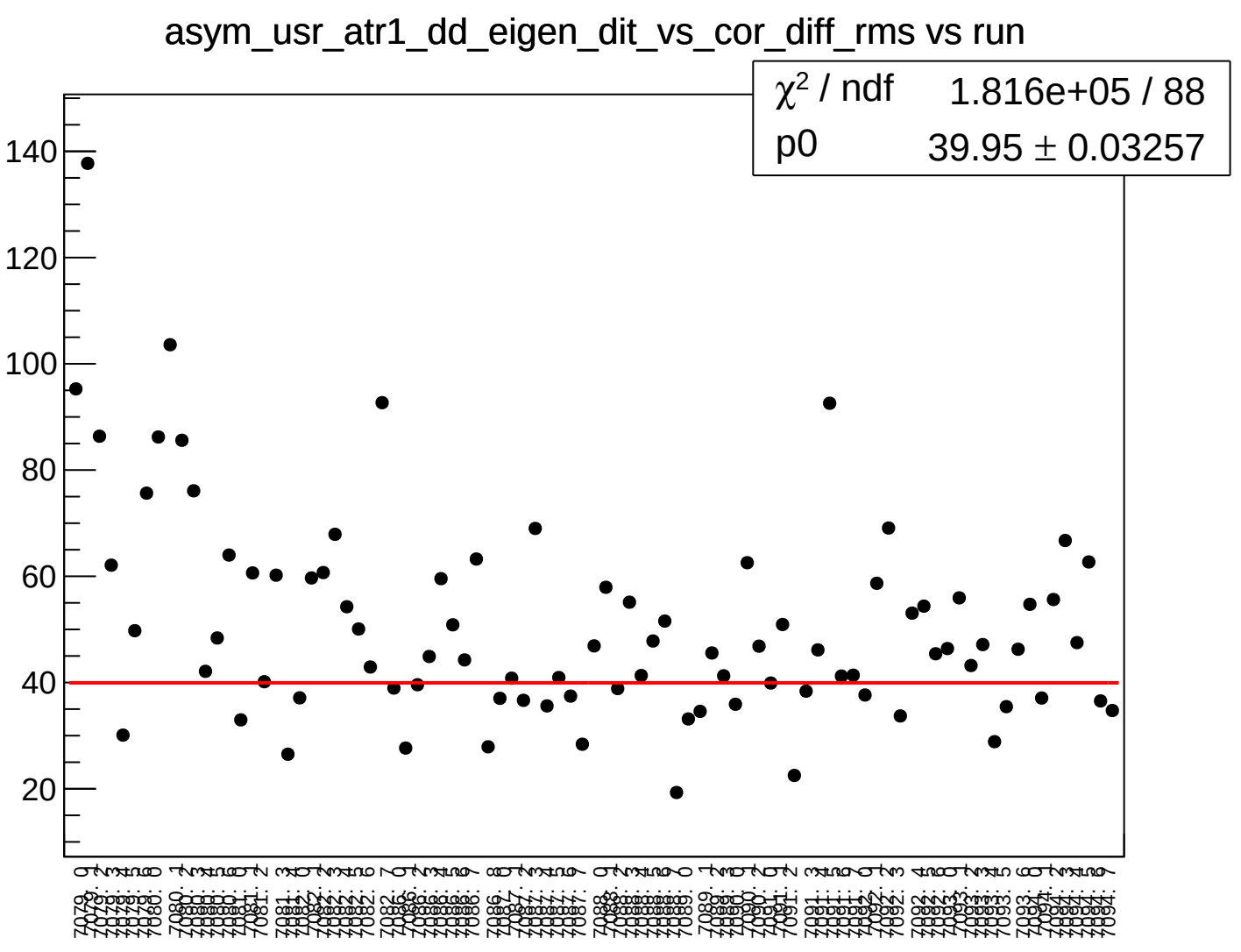

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.816e+05 / 88
p0 39.95 ± 0.03257
140
120
100
80
60
40
20

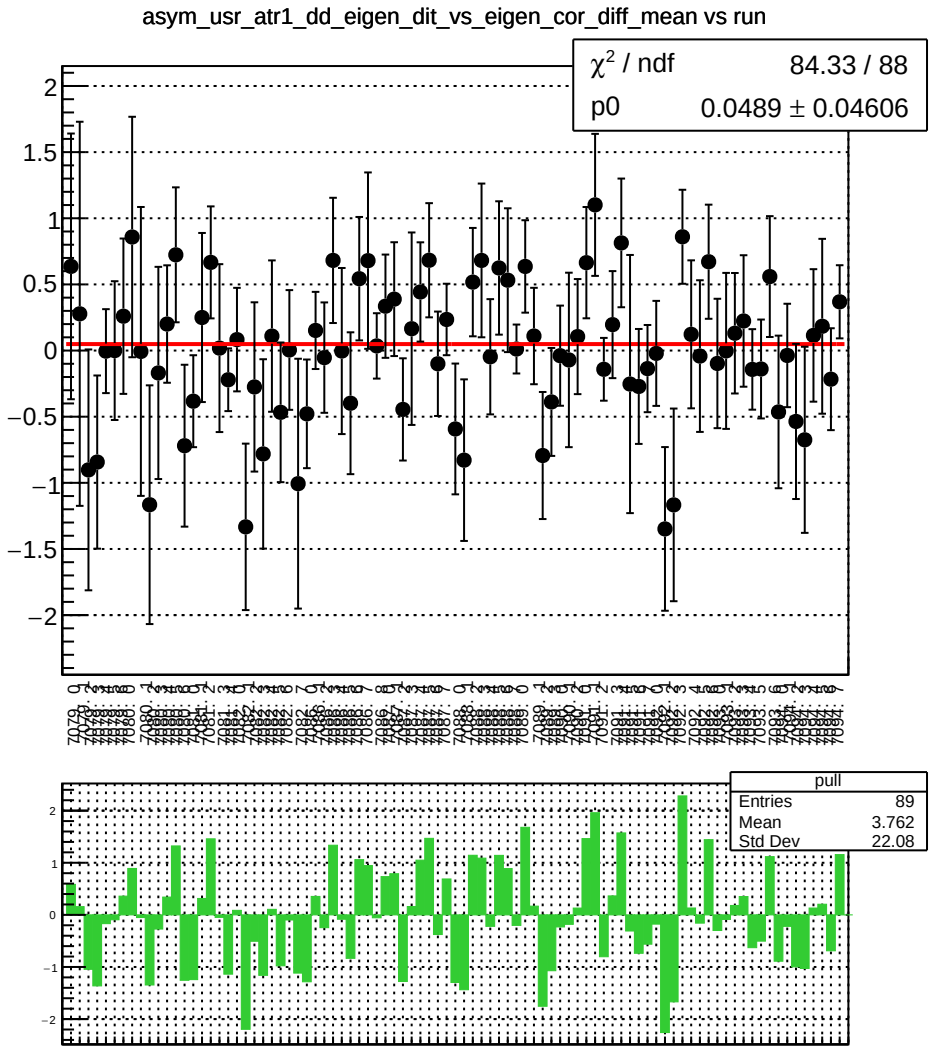

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.57 / 88
p0 −2.732e−06 ± 3.349e−06
pull
Entries 89
Mean 240.4
Std Dev 0
pull1D
Entries 89
Mean −0.006531
Std Dev 0.9336

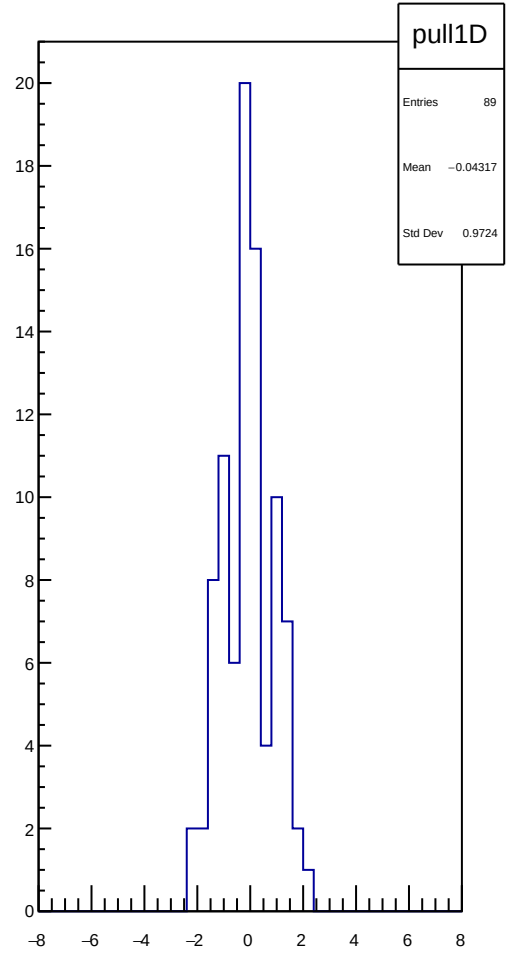

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.519e+04 / 88
p0 0.003061 ± 2.368e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

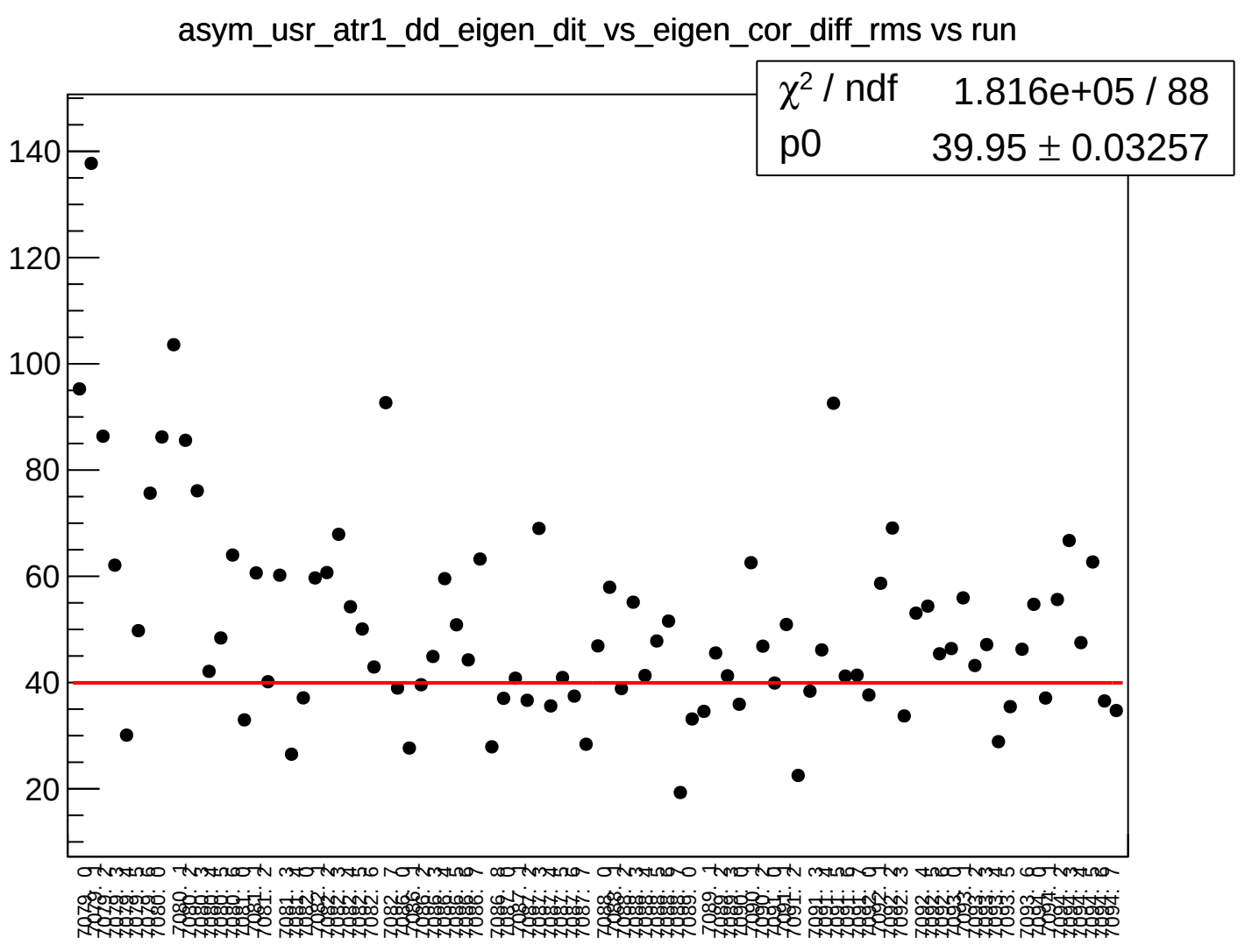

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.33 / 88
p0 0.0489 ± 0.04606
pull
Entries 89
Mean 3.762
Std Dev 22.08

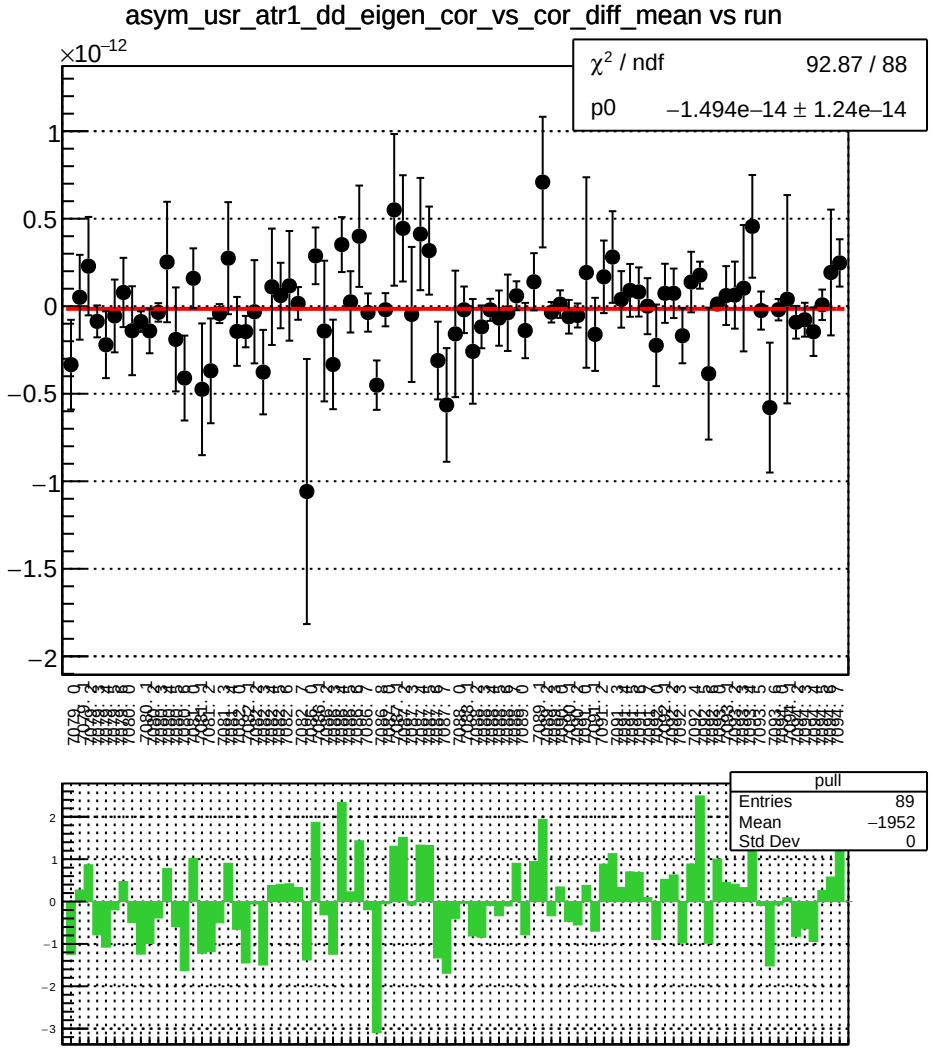

pull1D
Entries 89
Mean −0.04317
Std Dev 0.9724

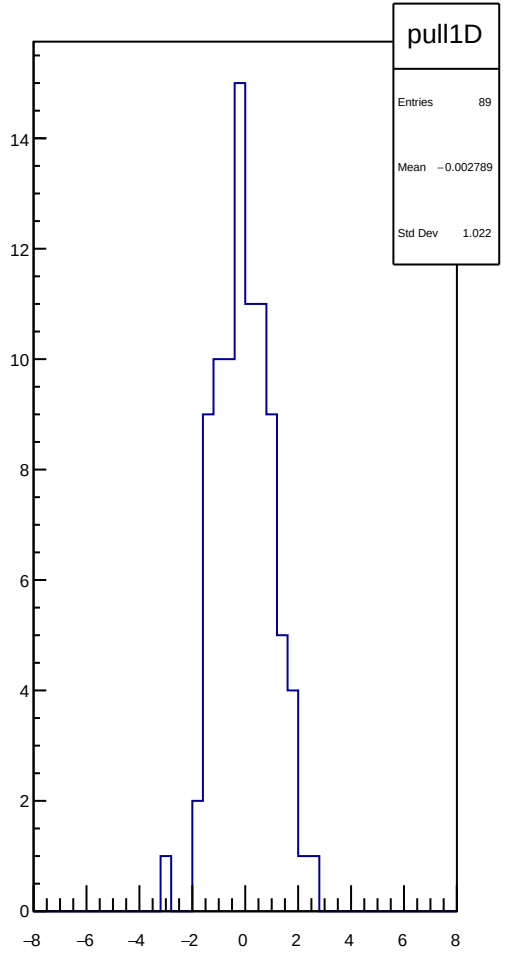

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.816e+05 / 88
p0 39.95 ± 0.03257
140
120
100
80
60
40
20

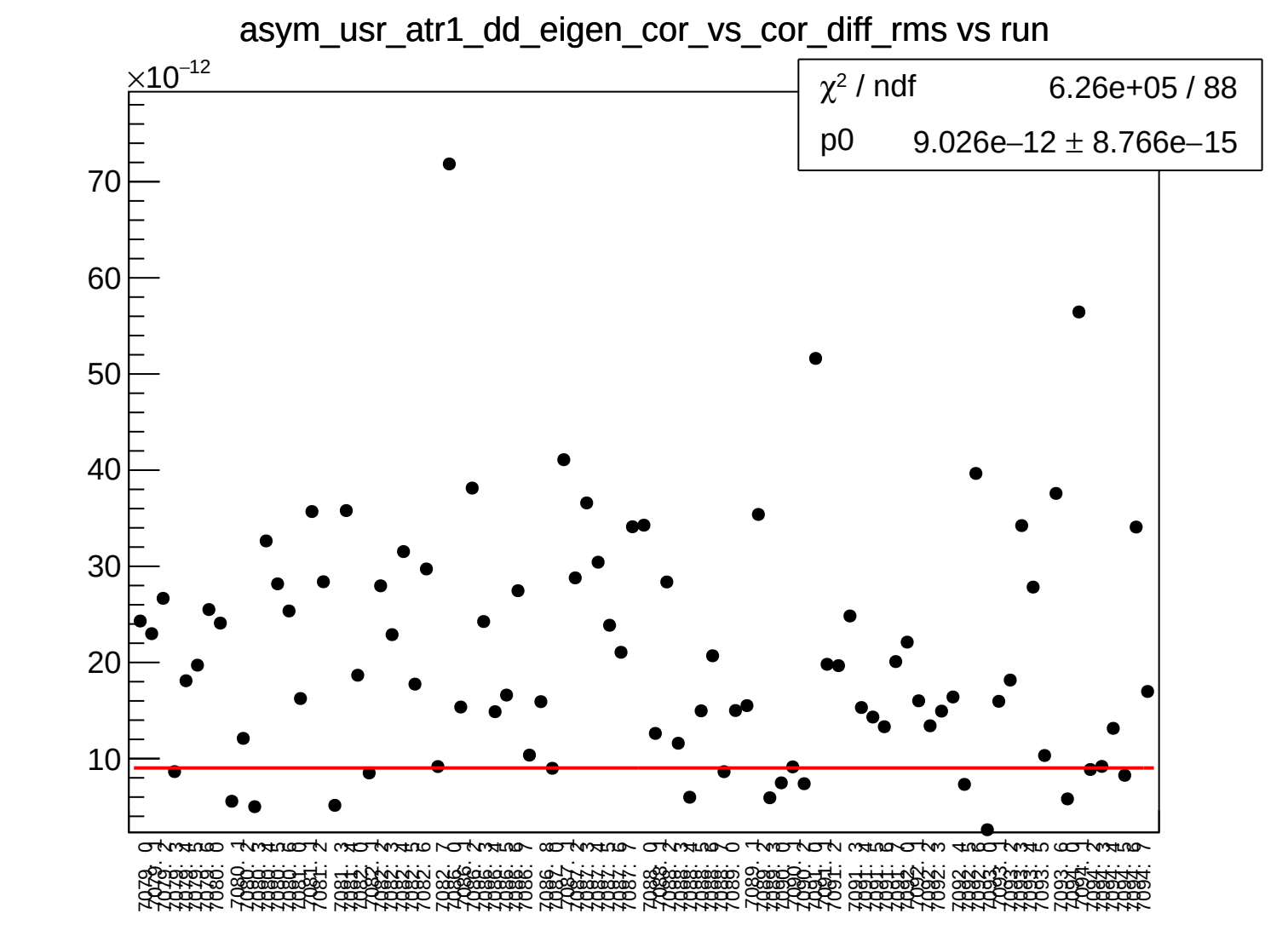

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.33 / 88
p0 0.0489 ± 0.04606
pull
Entries 89
Mean 3.762
Std Dev 22.08

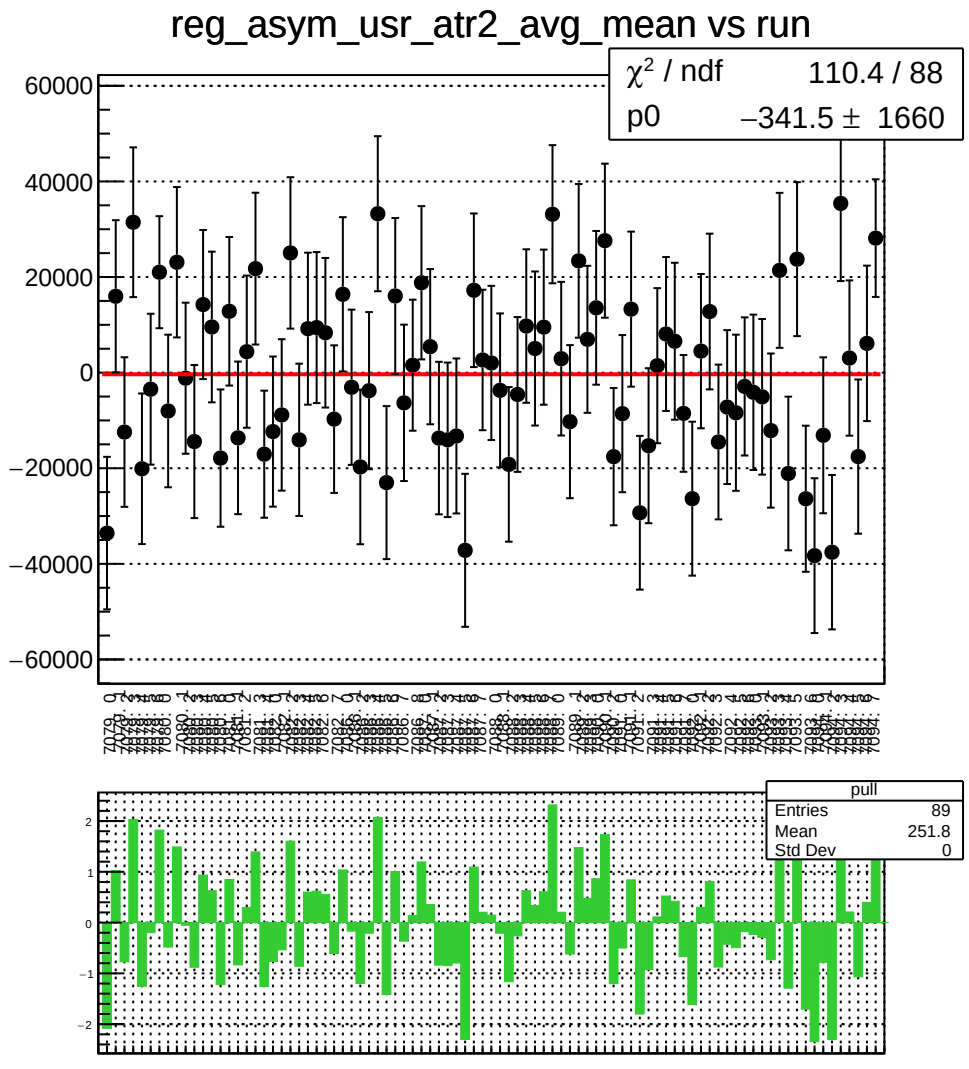

pull1D
Entries 89
Mean −0.04317
Std Dev 0.9724

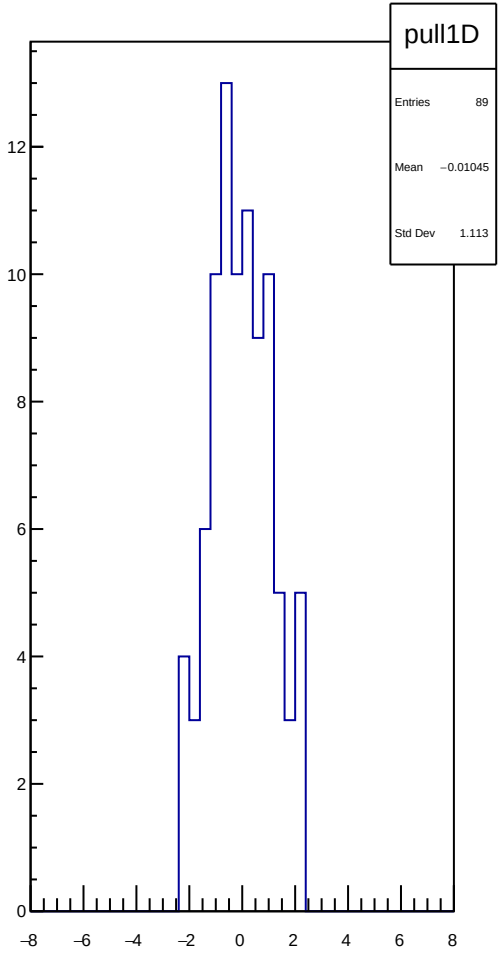

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.816e+05 / 88
p0 39.95 ± 0.03257
140
120
100
80
60
40
20

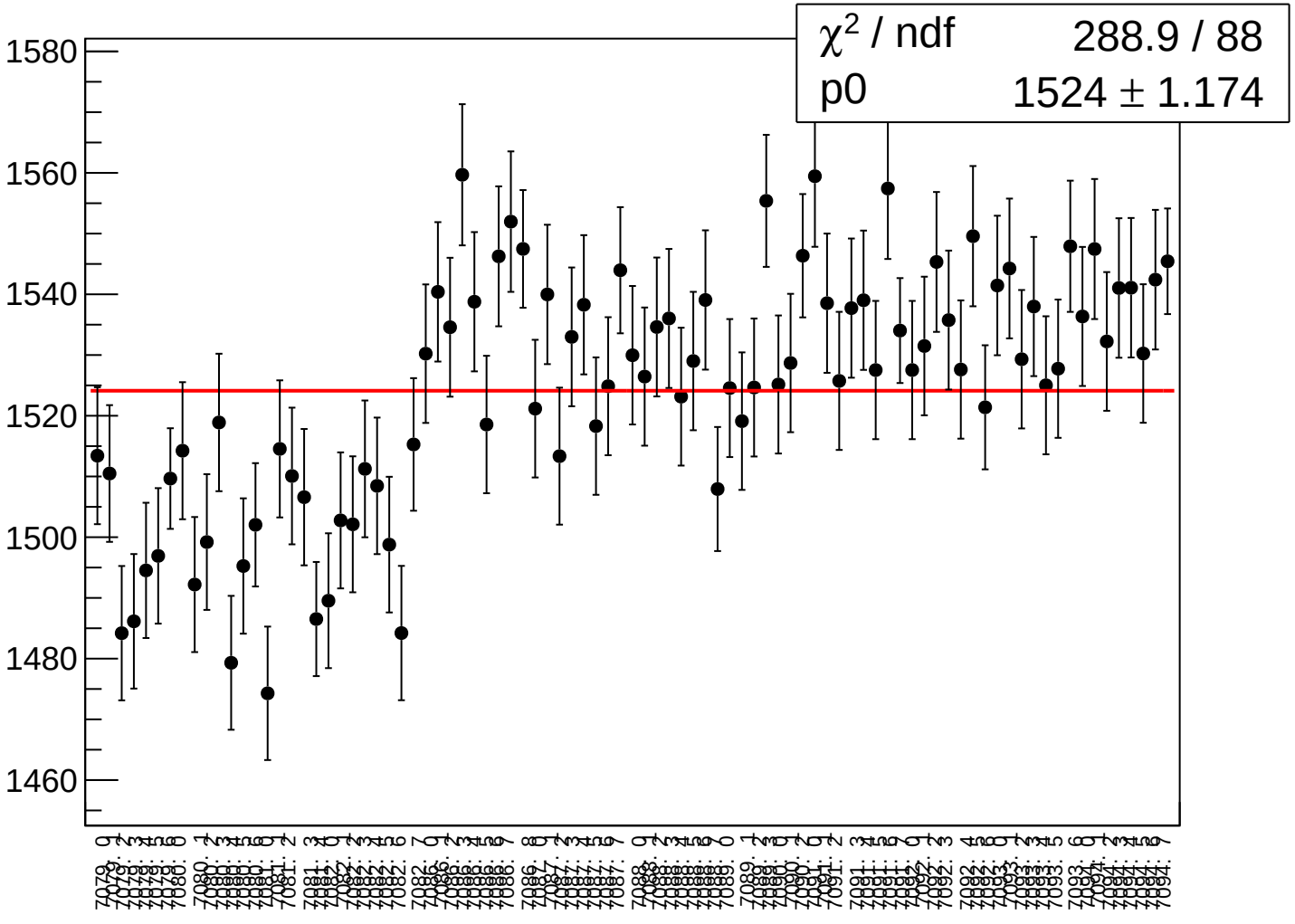

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.87 / 88
p0 −1.494e−14 ± 1.24e−14
pull
Entries 89
Mean −1952
Std Dev 0

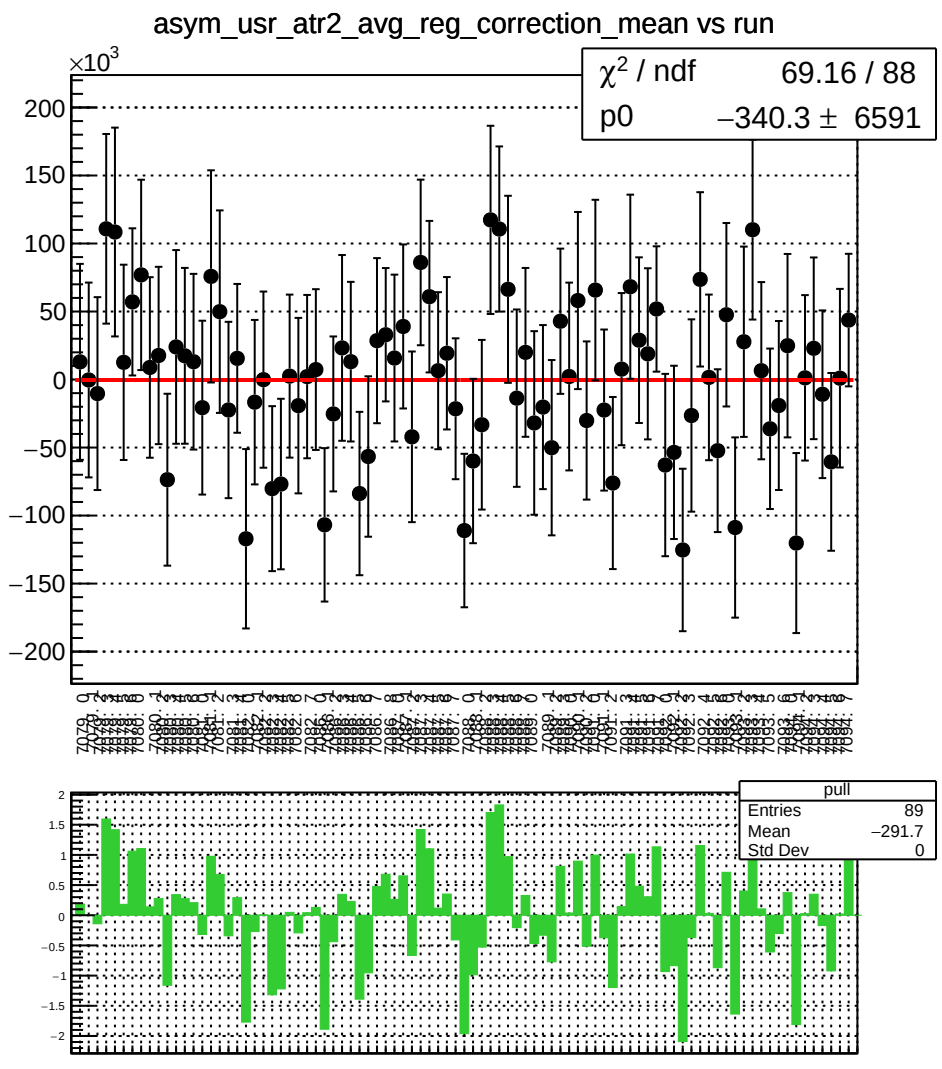

pull1D
Entries 89
Mean −0.002789
Std Dev 1.022

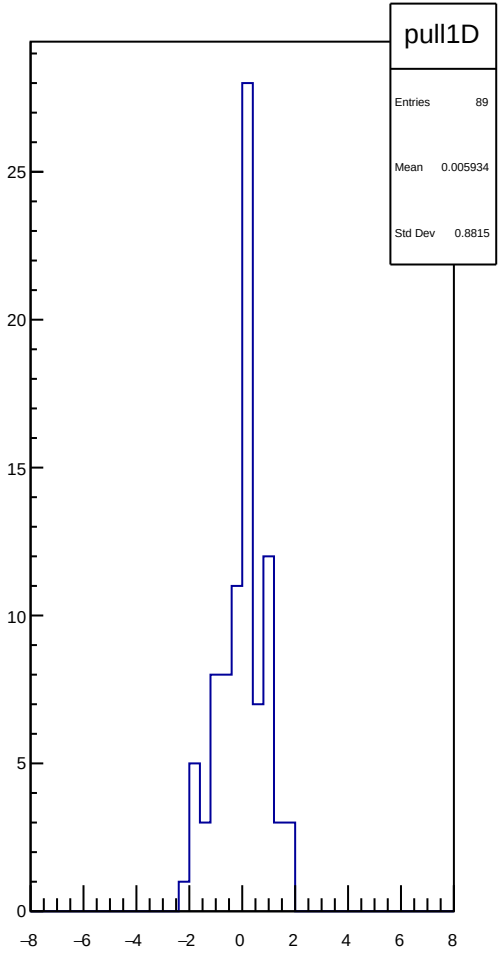

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.26e+05 / 88
p0 9.026e−12 ± 8.766e−15
70
60
50
40
30
20
10

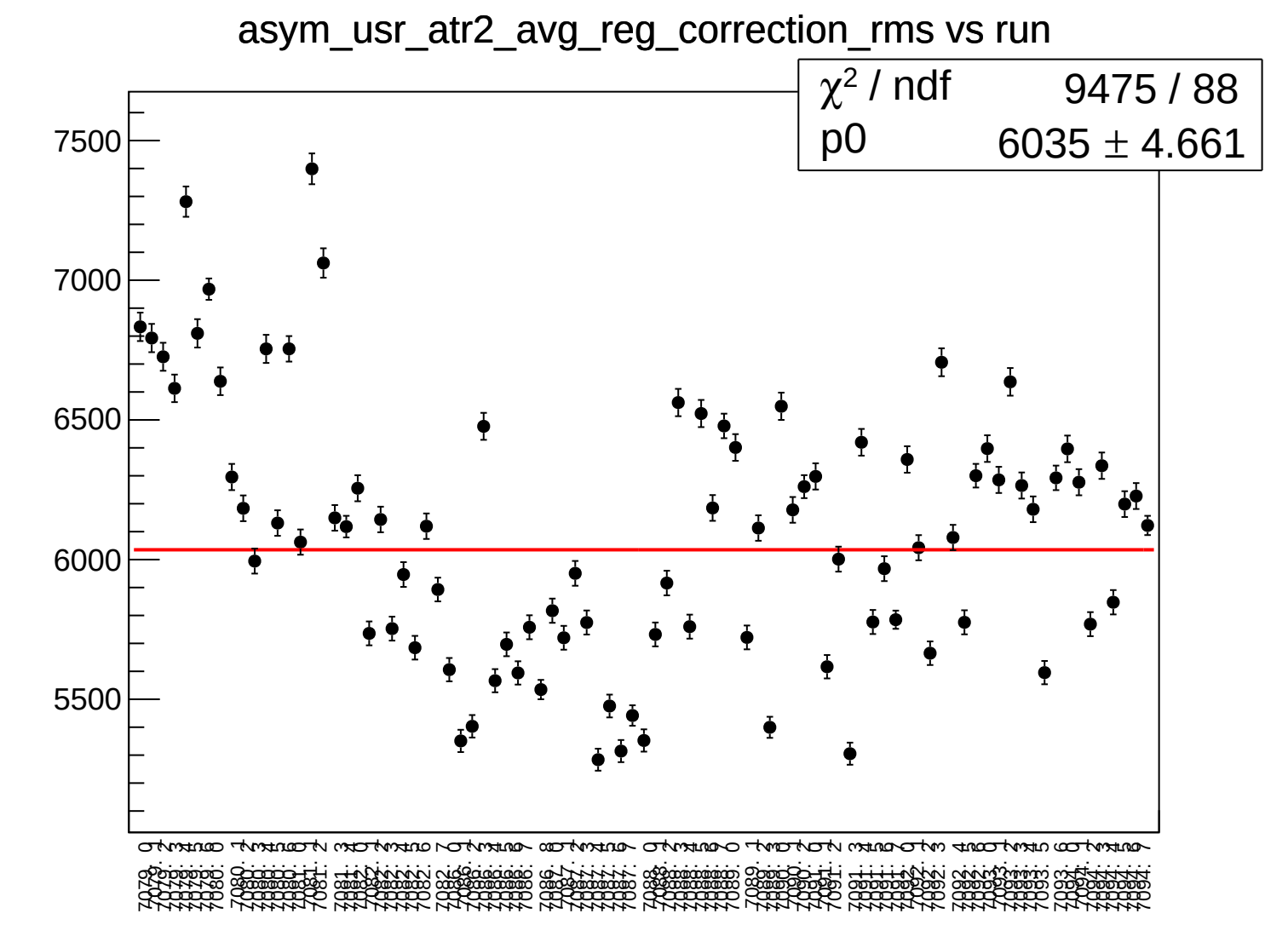

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 110.4 / 88
p0 −341.5 ± 1660
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 251.8
Std Dev 0
2
1
0
−1
−2

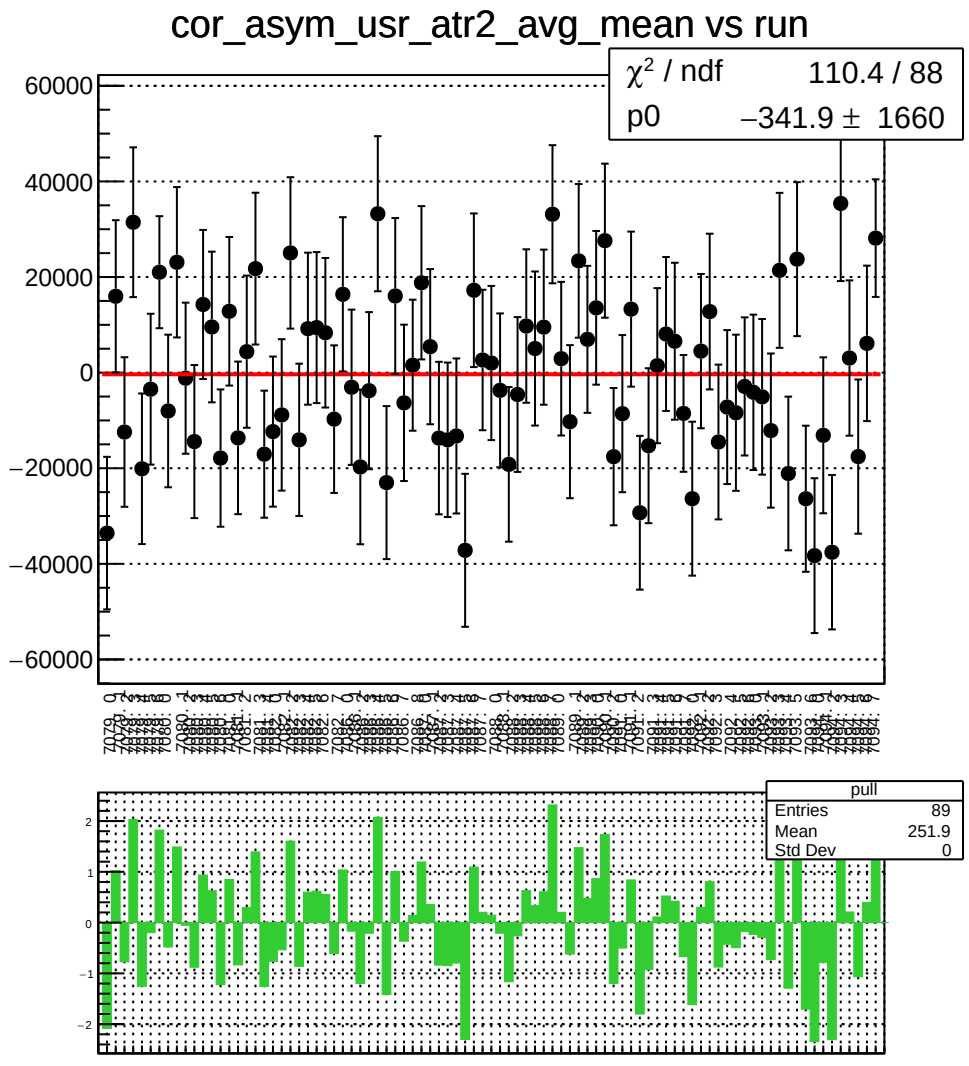

pull1D
Entries 89
Mean −0.01045
Std Dev 1.113
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

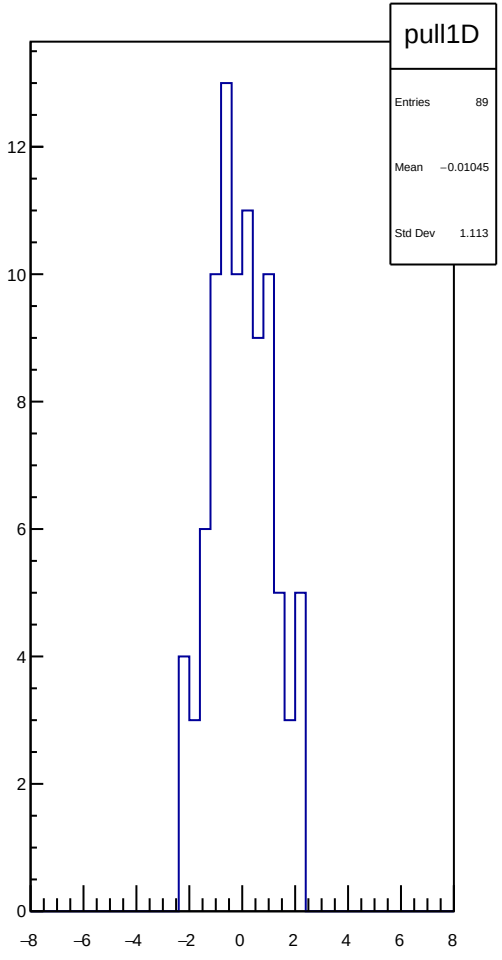

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 288.9 / 88
p0 1524 ± 1.174
1580
1560
1540
1520
1500
1480
1460

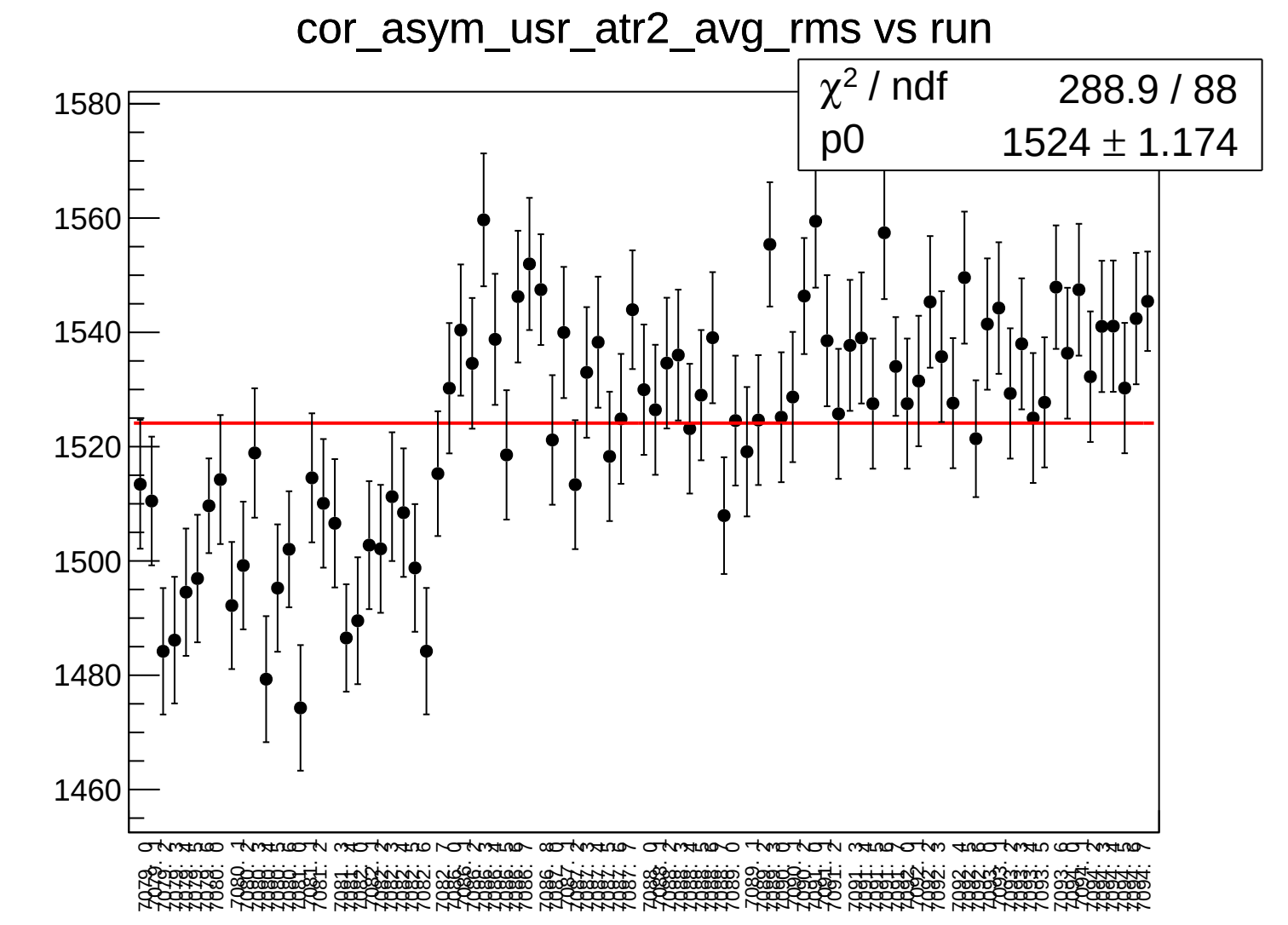

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.16 / 88
p0 −340.3 ± 6591
pull
Entries 89
Mean −291.7
Std Dev 0

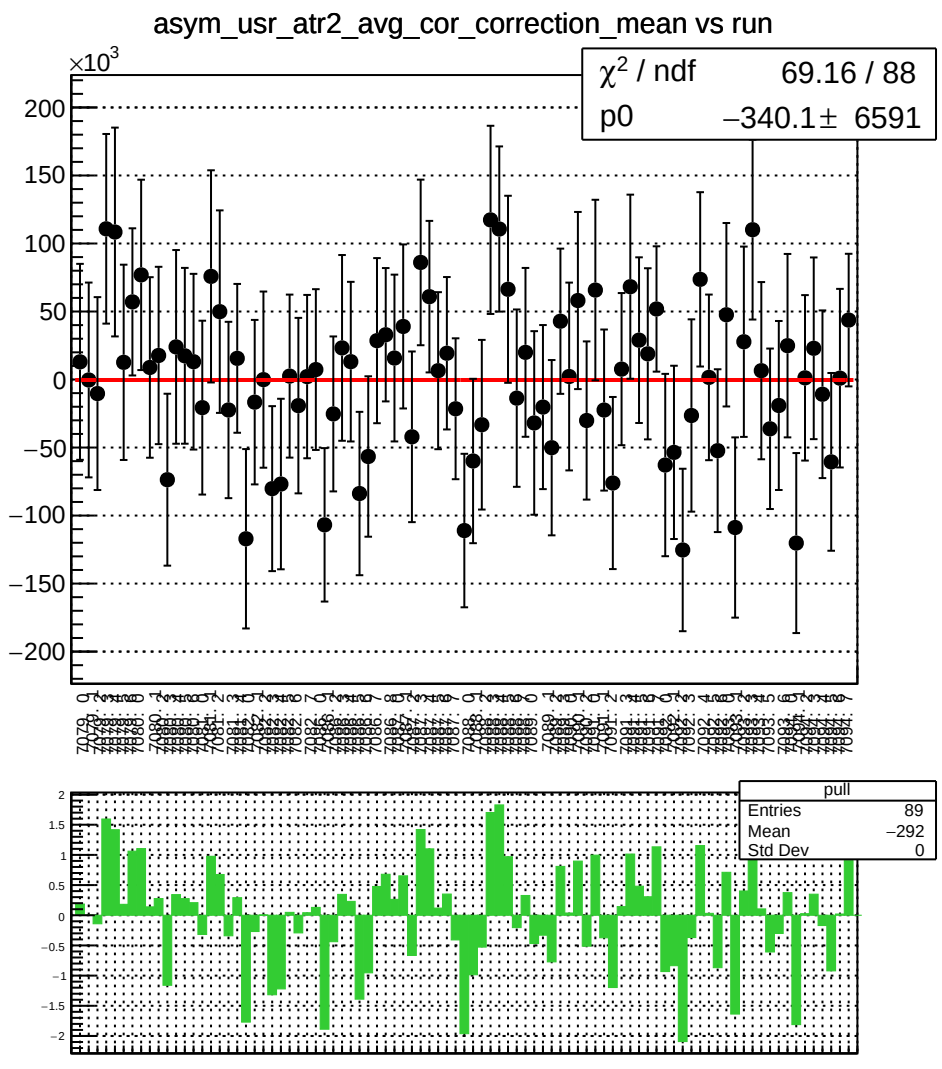

pull1D
Entries 89
Mean 0.005934
Std Dev 0.8815

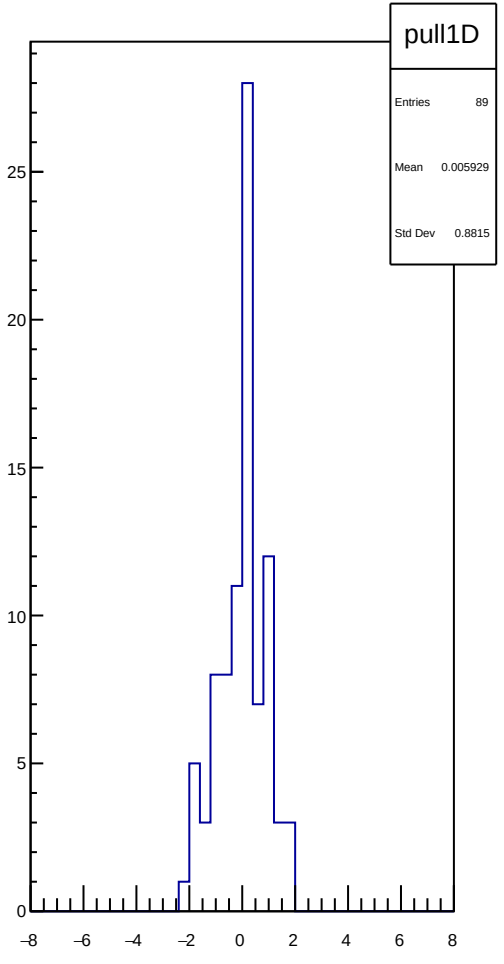

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 9475 / 88
p0 6035 ± 4.661
7500
7000
6500
6000
5500

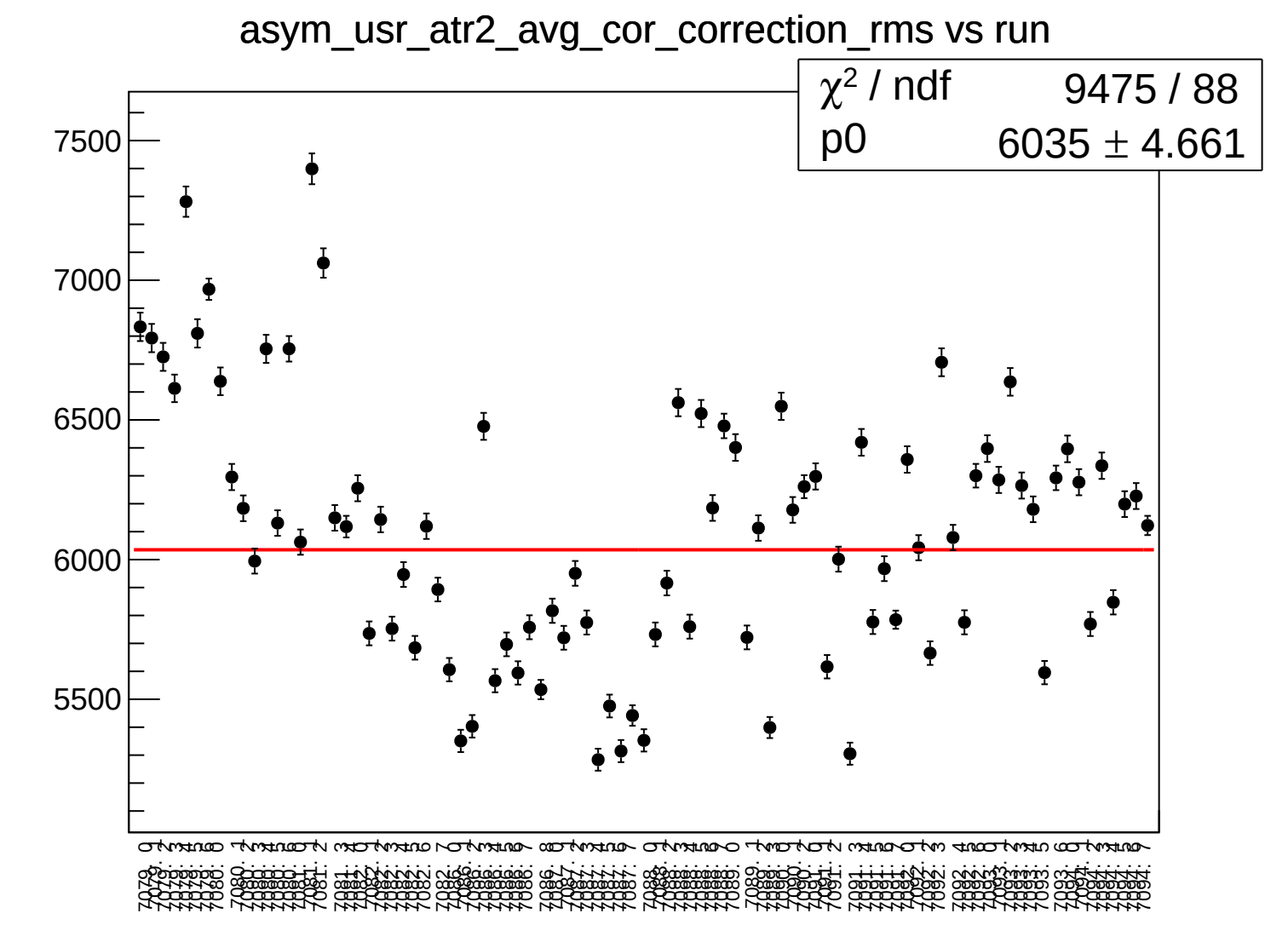

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 110.4 / 88
p0 −341.9 ± 1660
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 251.9
Std Dev 0
2
1
0
−1
−2

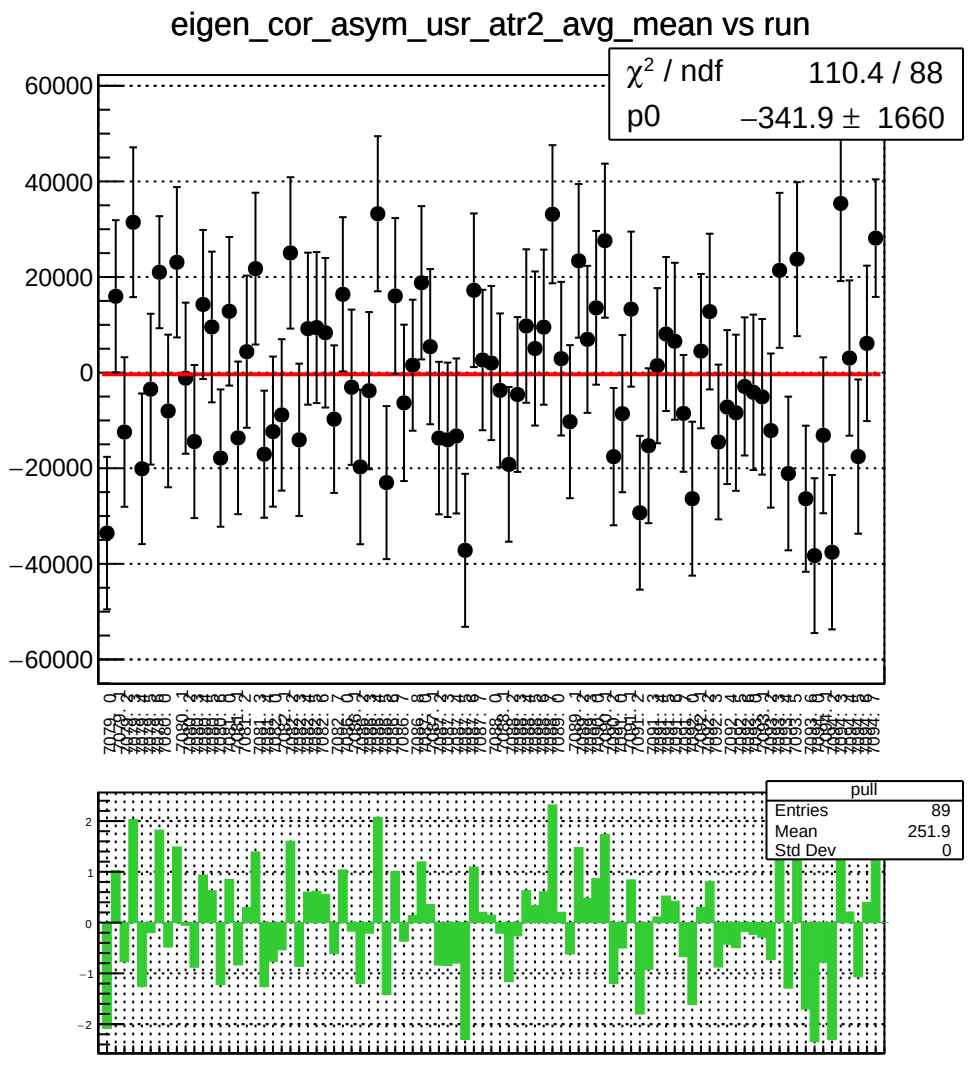

pull1D
Entries 89
Mean −0.01045
Std Dev 1.113
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

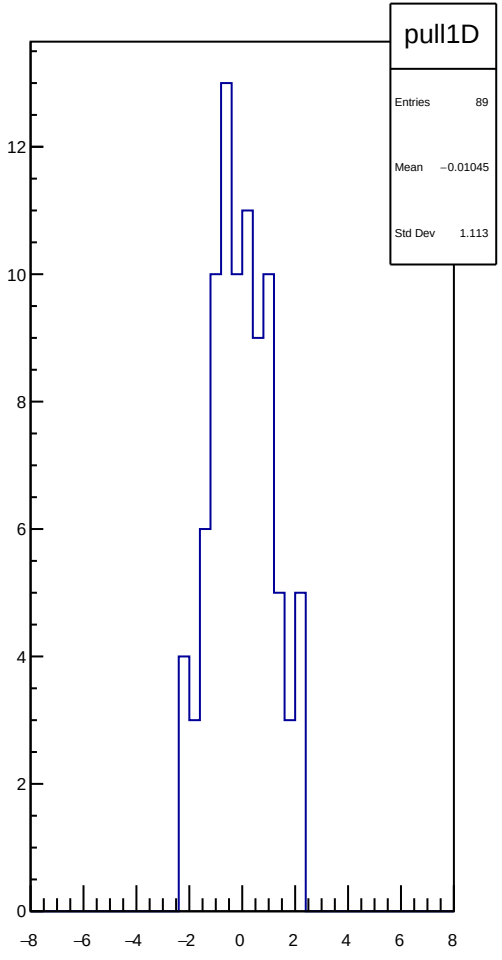

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 288.9 / 88
p0 1524 ± 1.174
1580
1560
1540
1520
1500
1480
1460

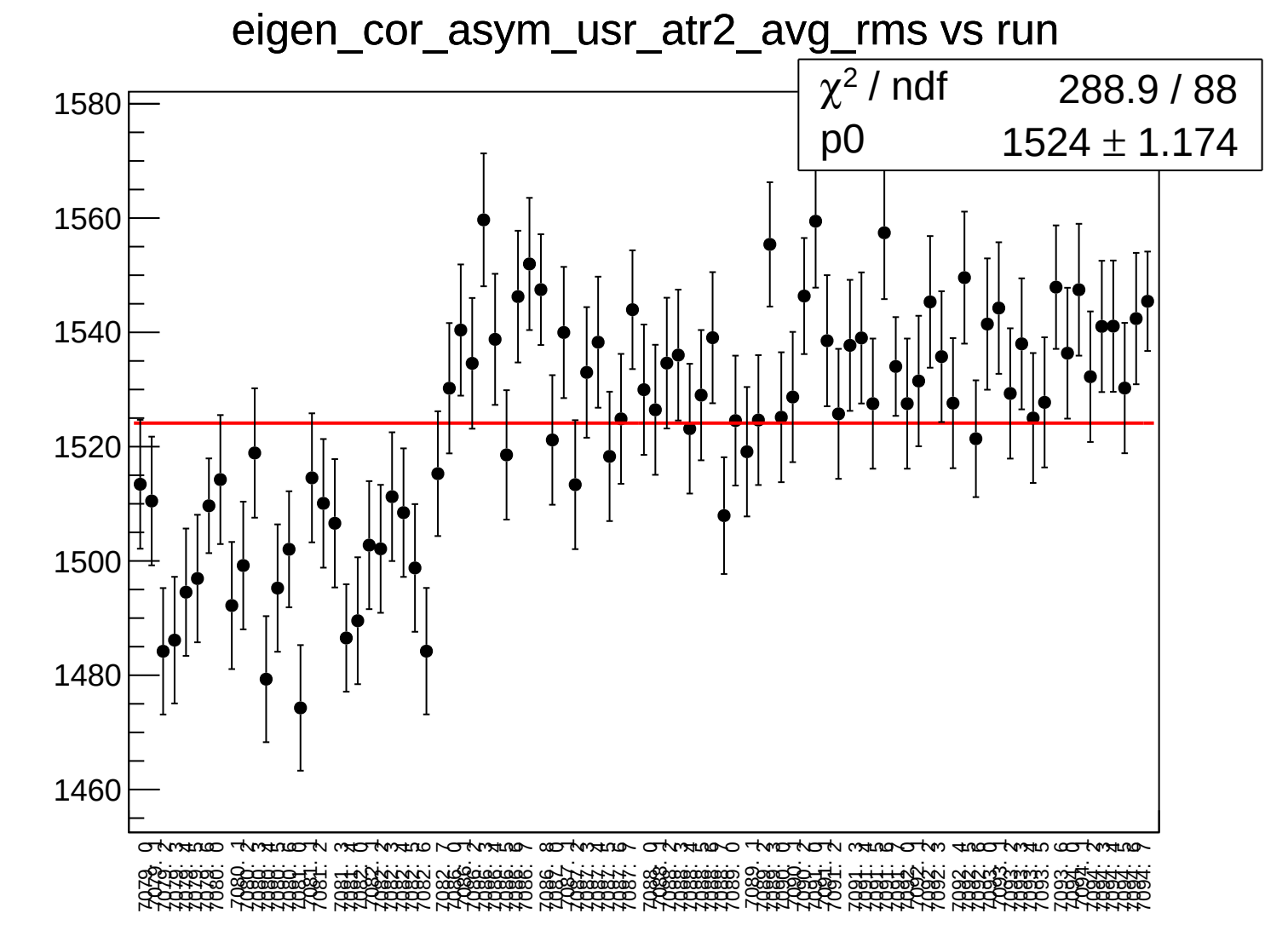

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.16 / 88
p0 −340.1± 6591
pull
Entries 89
Mean −292
Std Dev 0

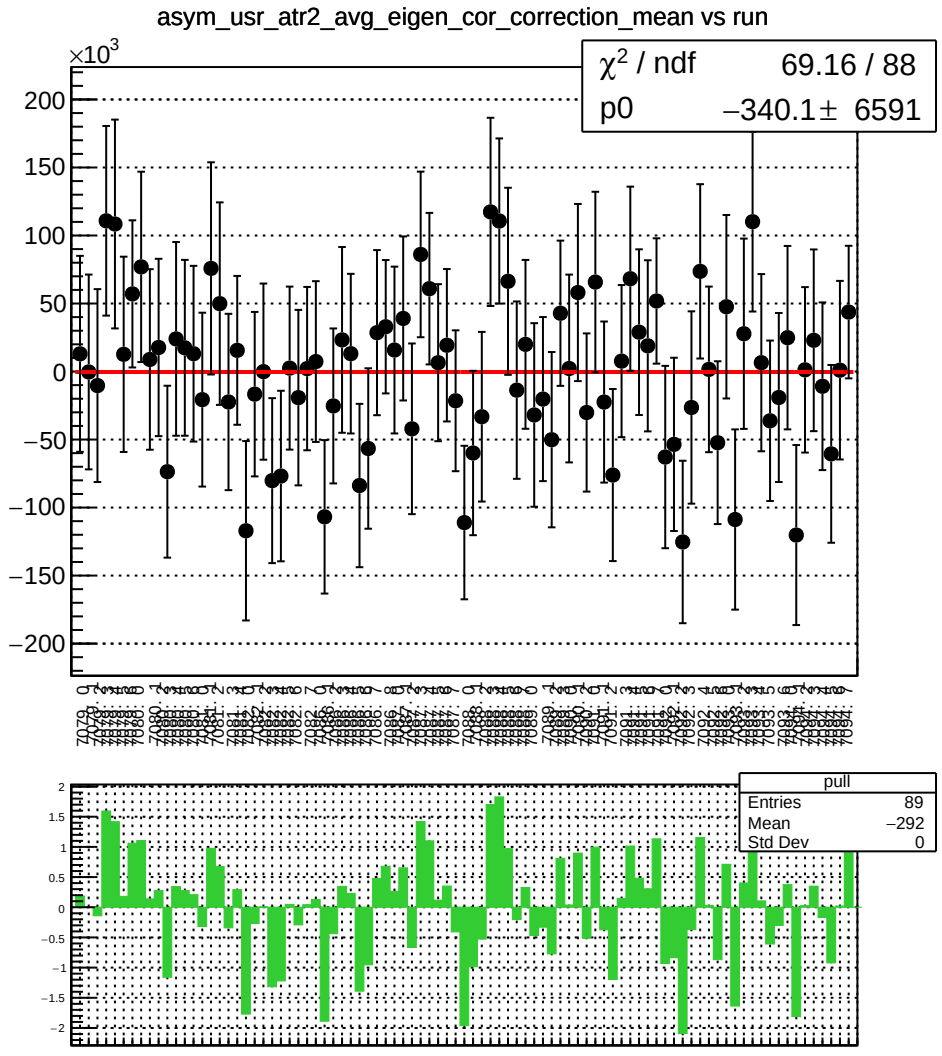

pull1D
Entries 89
Mean 0.005929
Std Dev 0.8815

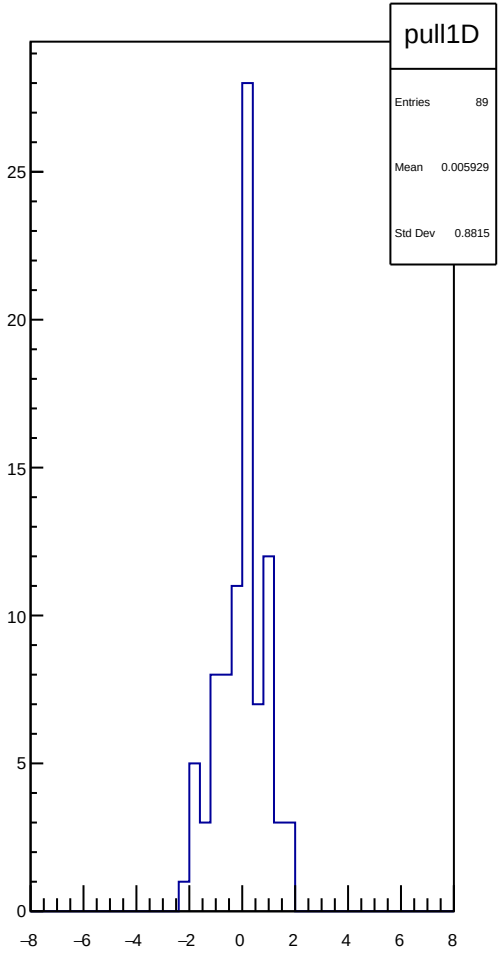

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 9475 / 88
p0 6035 ± 4.661
7500
7000
6500
6000
5500

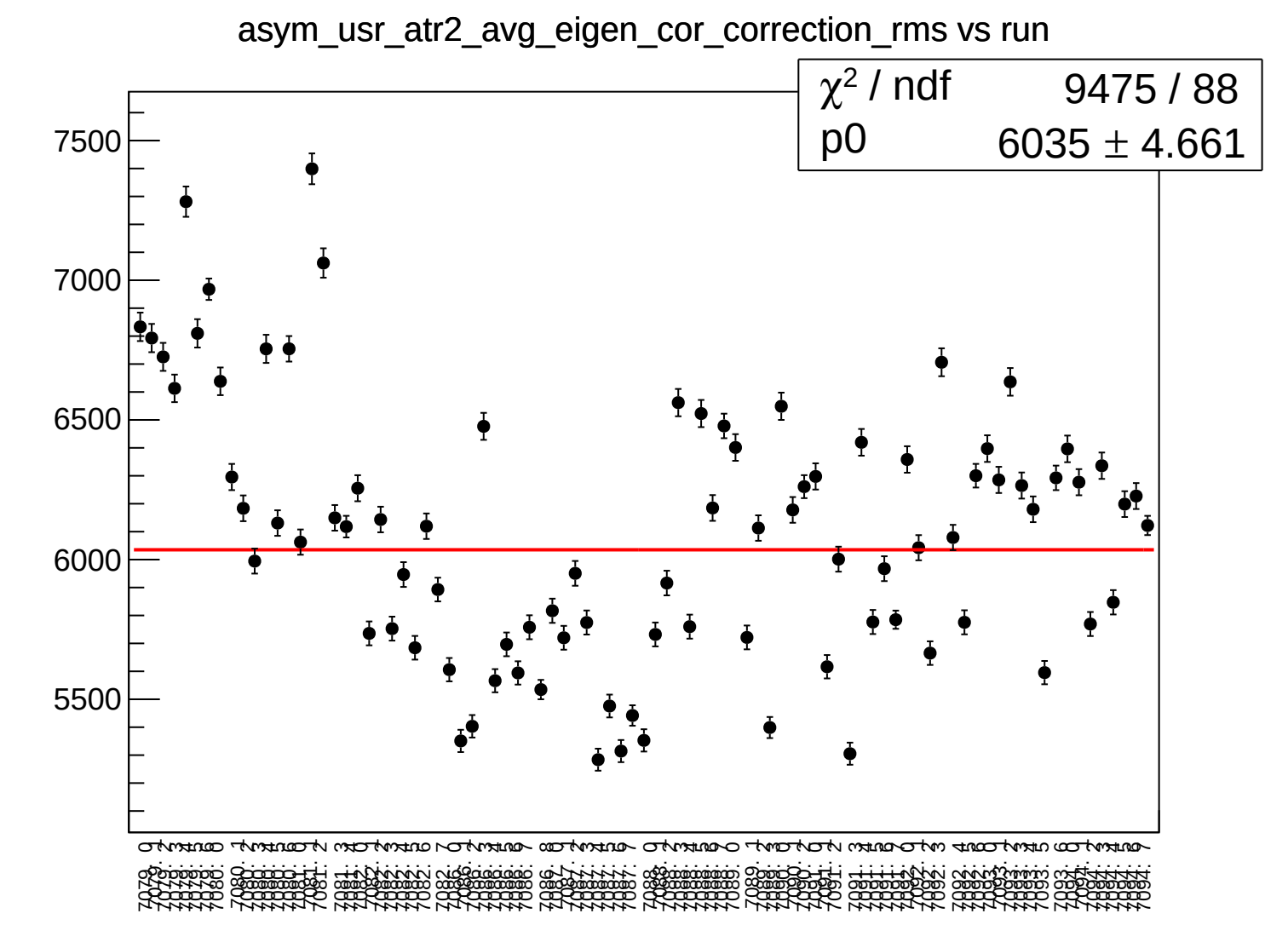

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 110.4 / 88
p0 −341.9 ± 1660
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 251.9
Std Dev 0
2
1
0
−1
−2

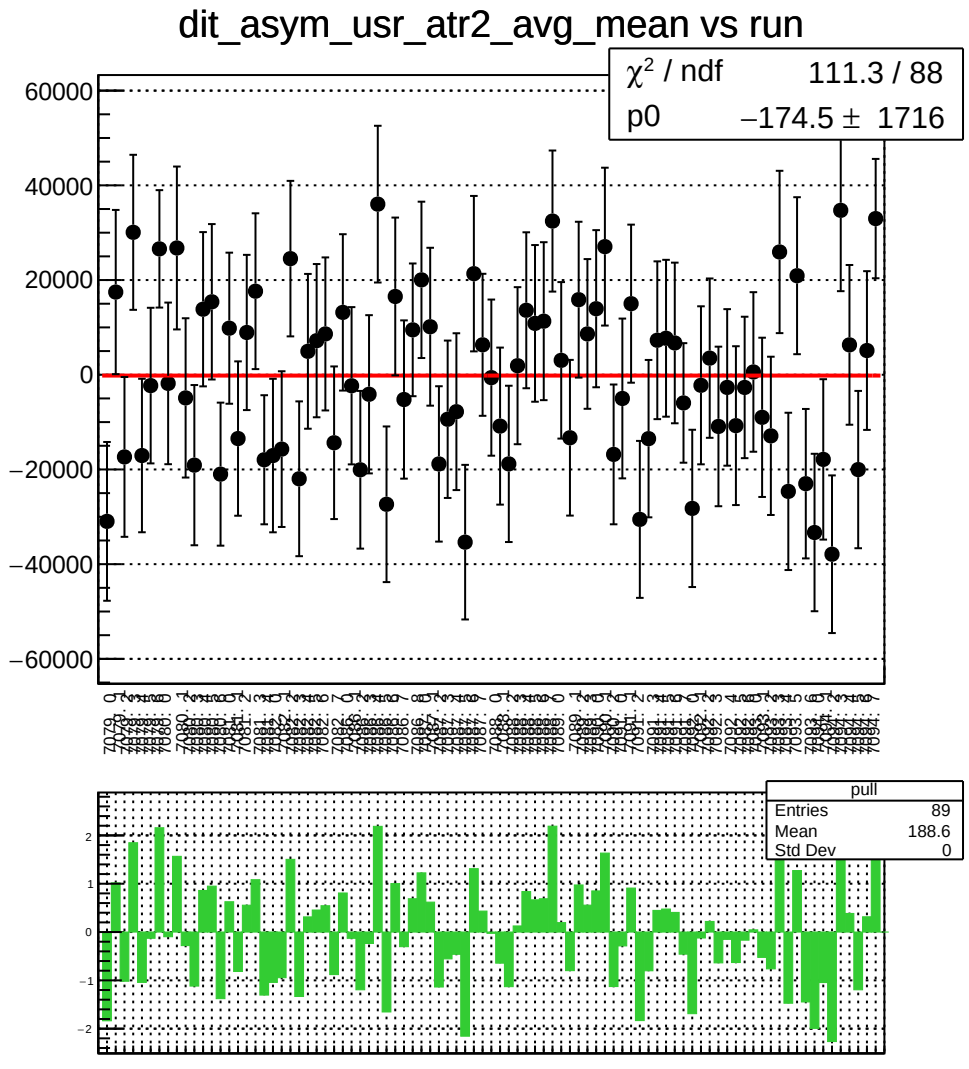

pull1D
Entries 89
Mean −0.01045
Std Dev 1.113
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

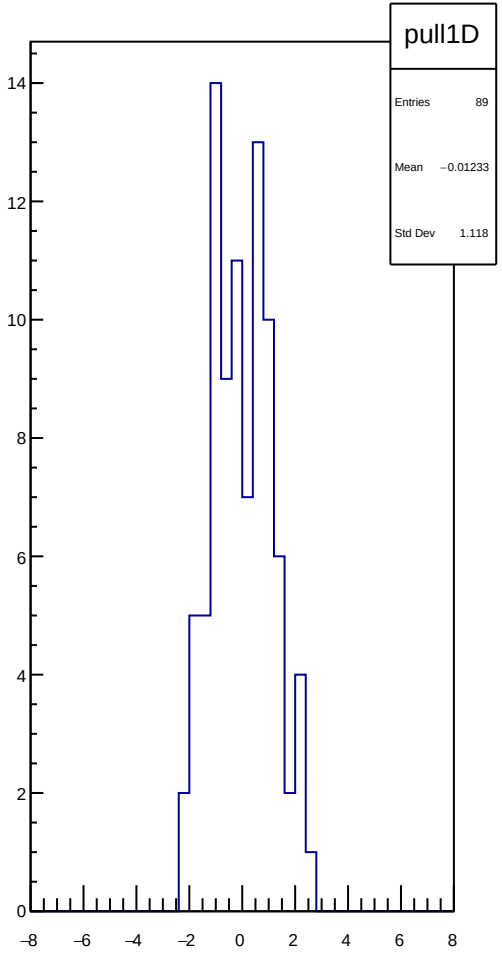

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 288.9 / 88
p0 1524 ± 1.174
1580
1560
1540
1520
1500
1480
1460

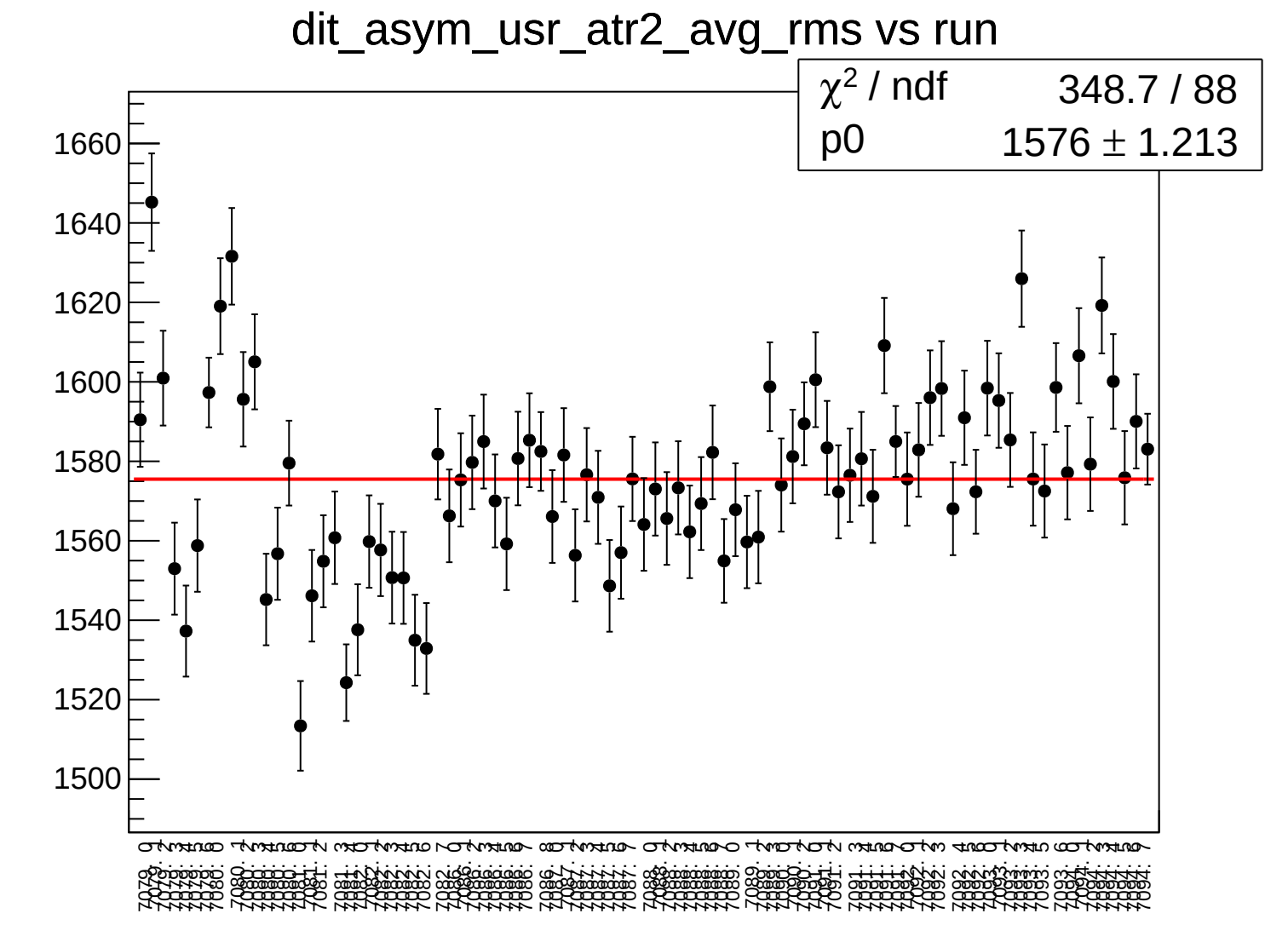

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.16 / 88
p0 −340.1± 6591
pull
Entries 89
Mean −292
Std Dev 0

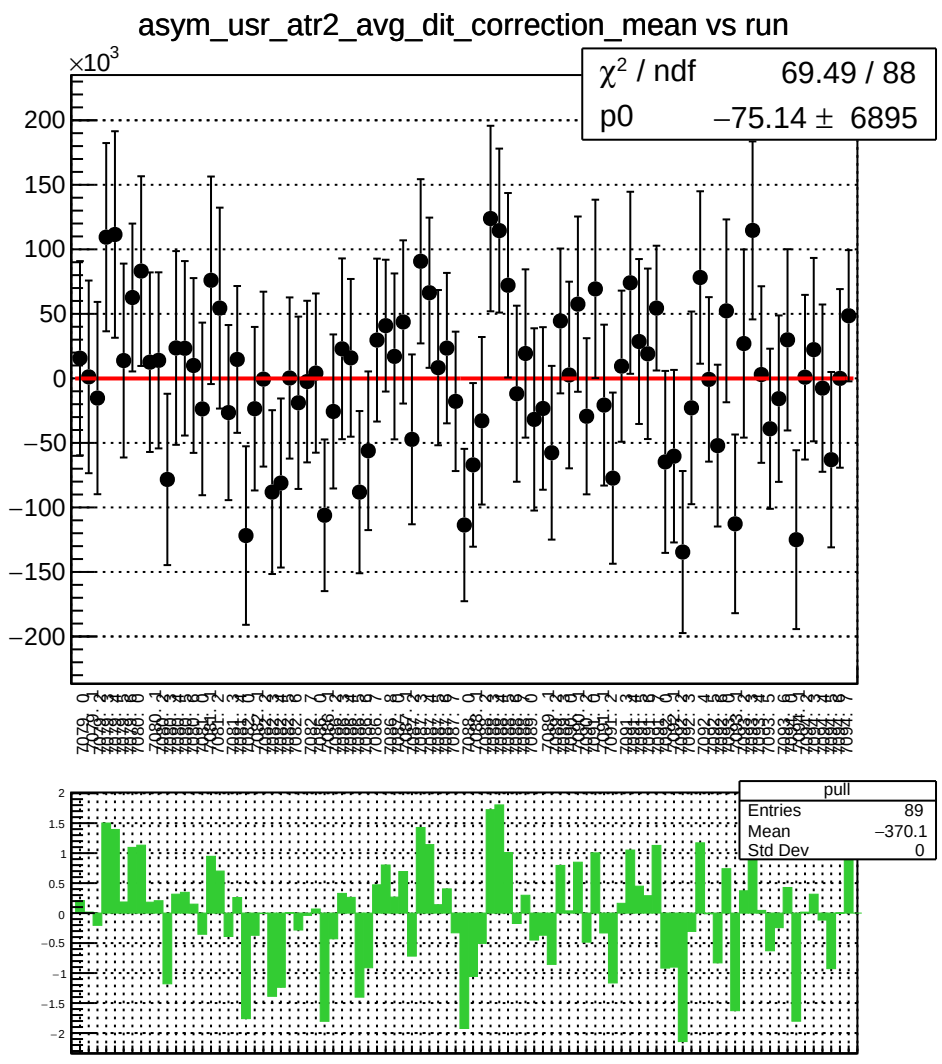

pull1D
Entries 89
Mean 0.005929
Std Dev 0.8815

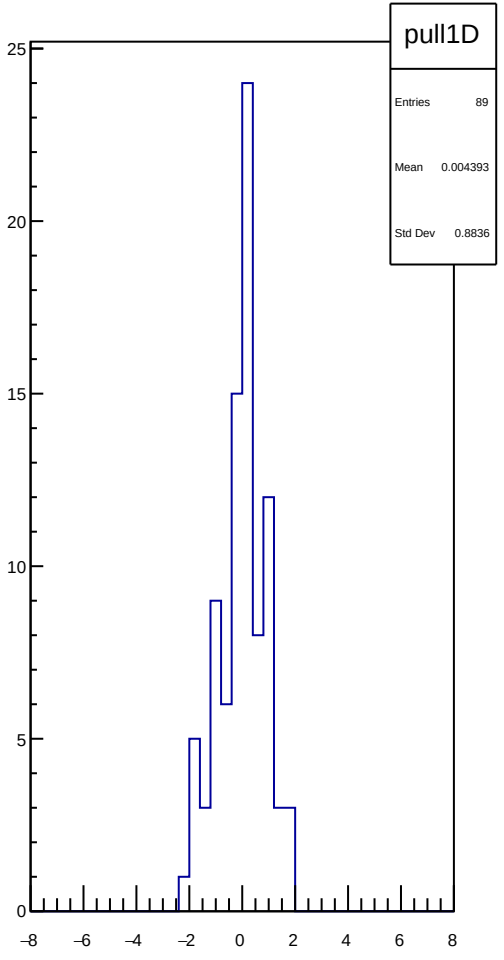

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9475 / 88
p0 6035 ± 4.661
7500
7000
6500
6000
5500

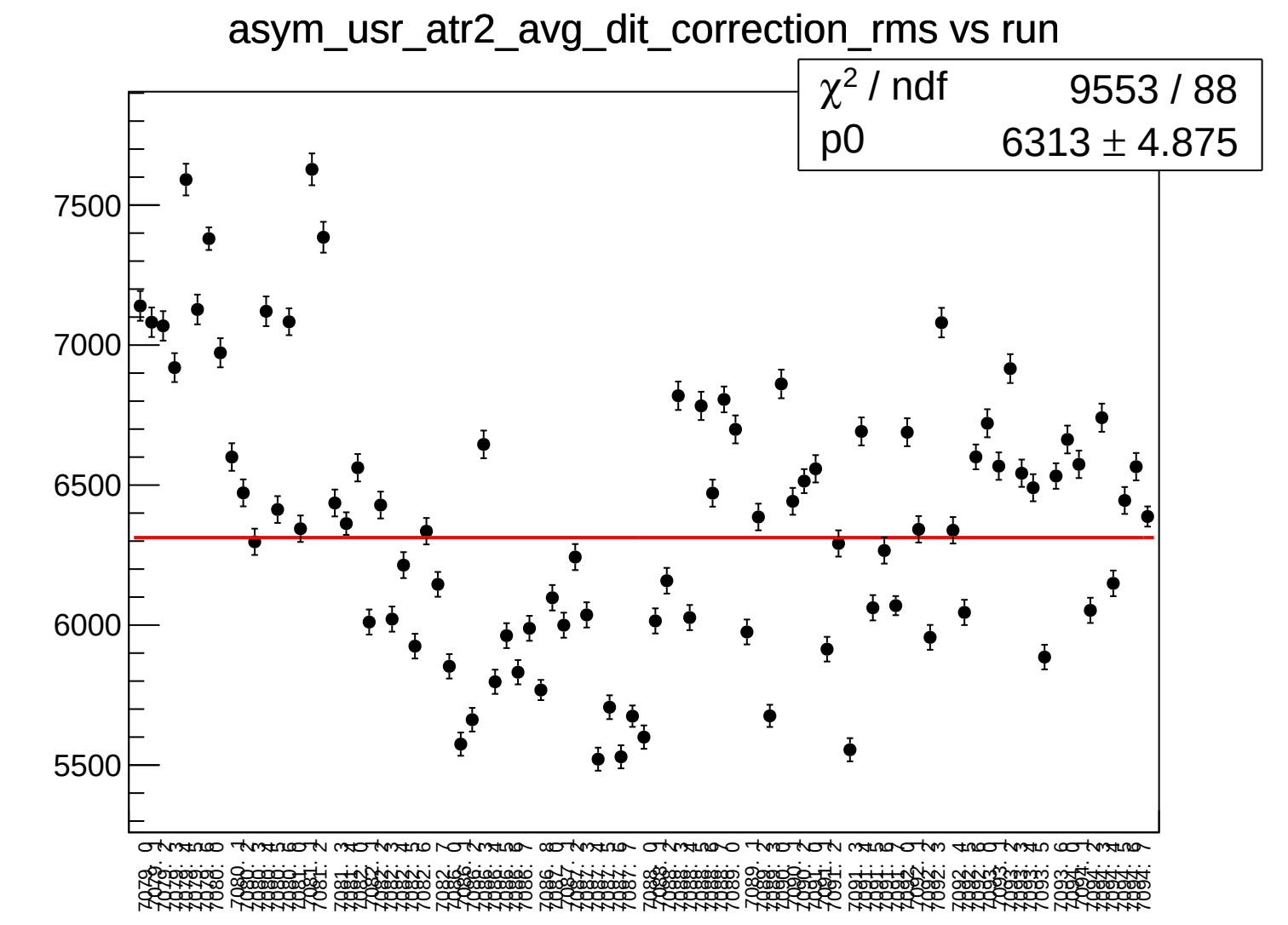

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 111.3 / 88
p0 −174.5 ± 1716
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 188.6
Std Dev 0
2
1
0
−1
−2

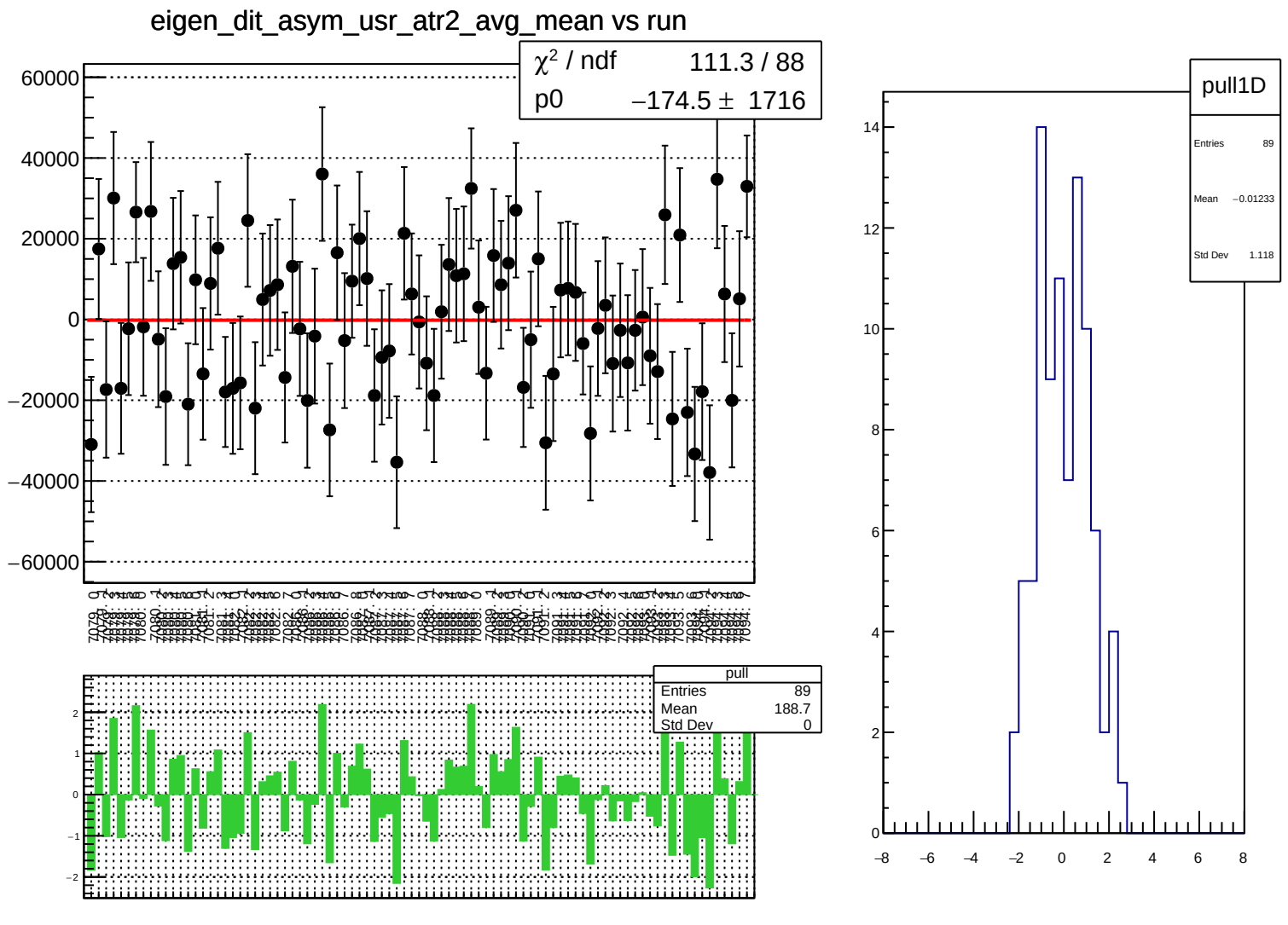

pull1D
Entries 89
Mean −0.01233
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

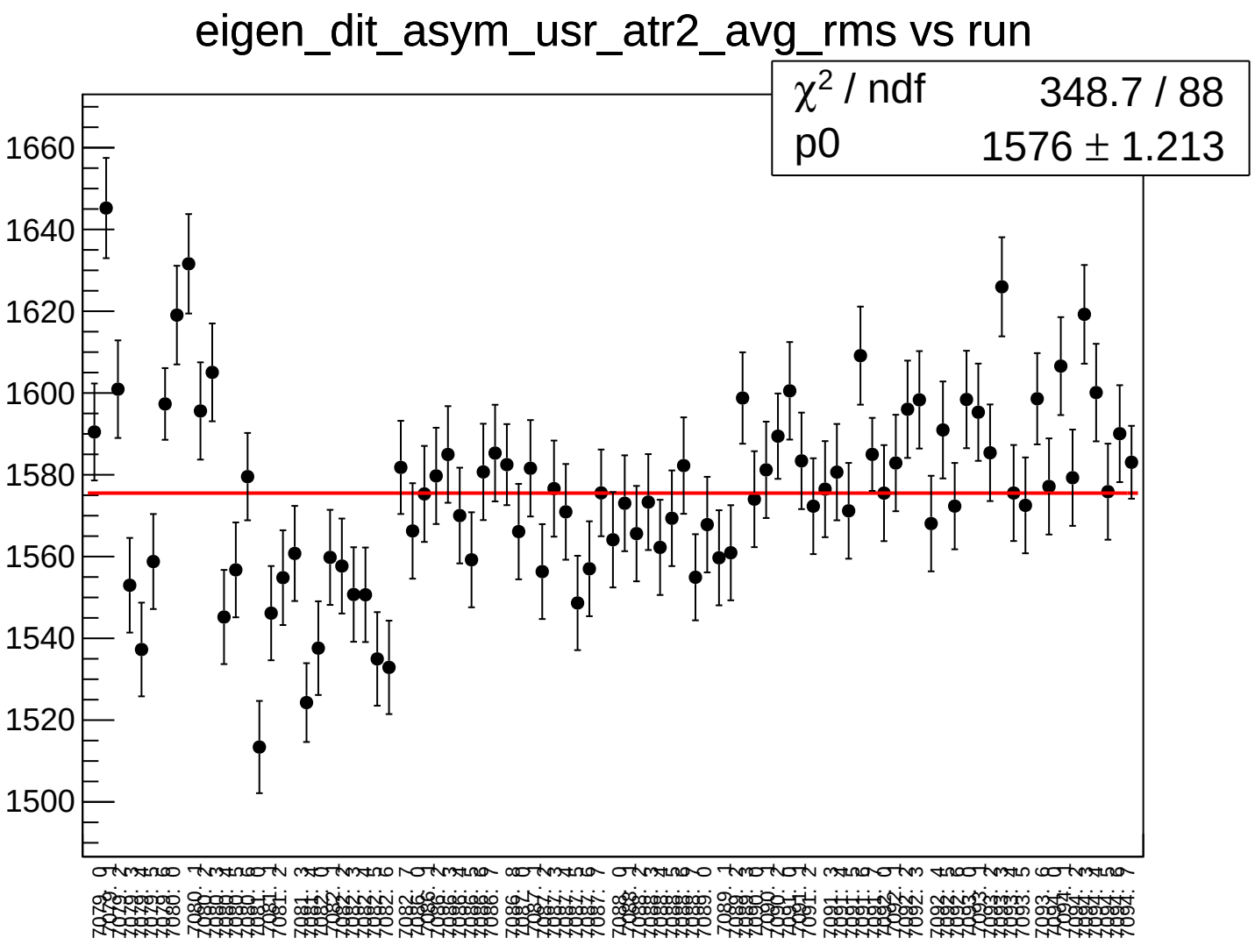

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 348.7 / 88
p0 1576 ± 1.213
1660
1640
1620
1600
1580
1560
1540
1520
1500

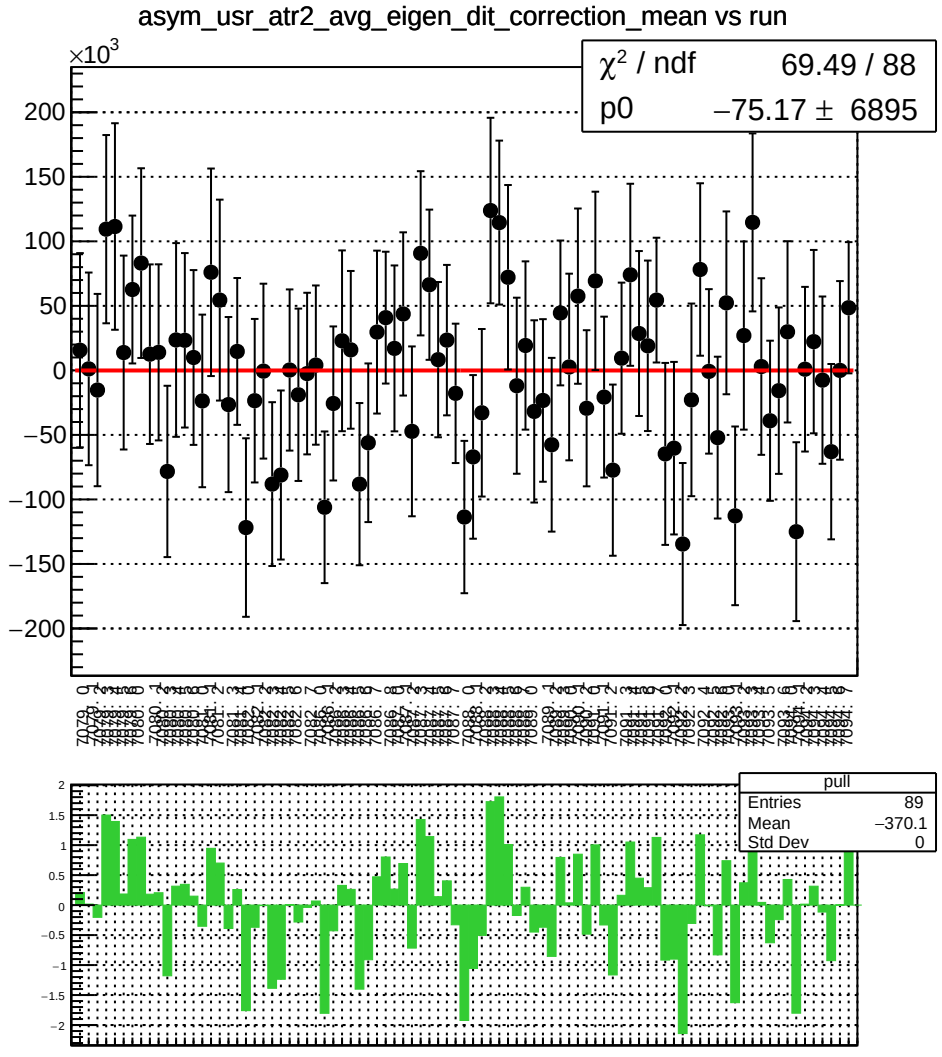

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 69.49 / 88
p0 −75.14 ± 6895
pull
Entries 89
Mean −370.1
Std Dev 0

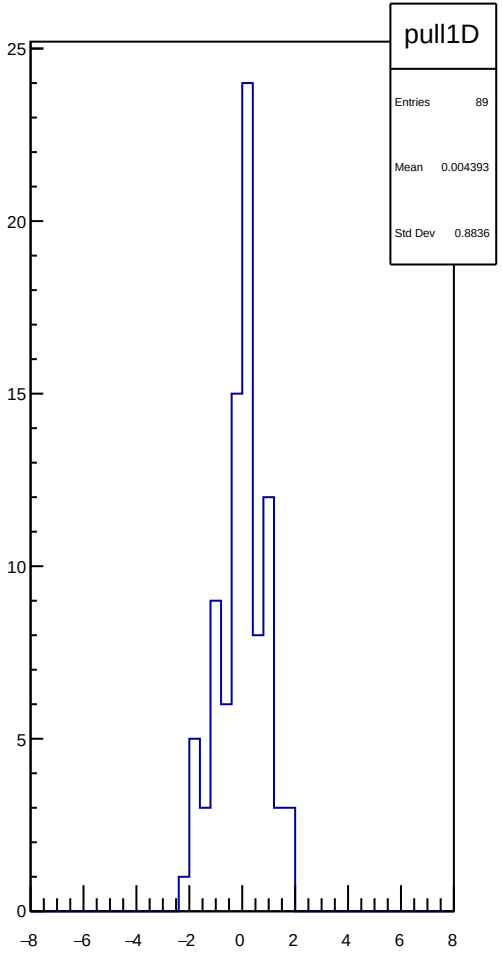

pull1D
Entries 89
Mean 0.004393
Std Dev 0.8836

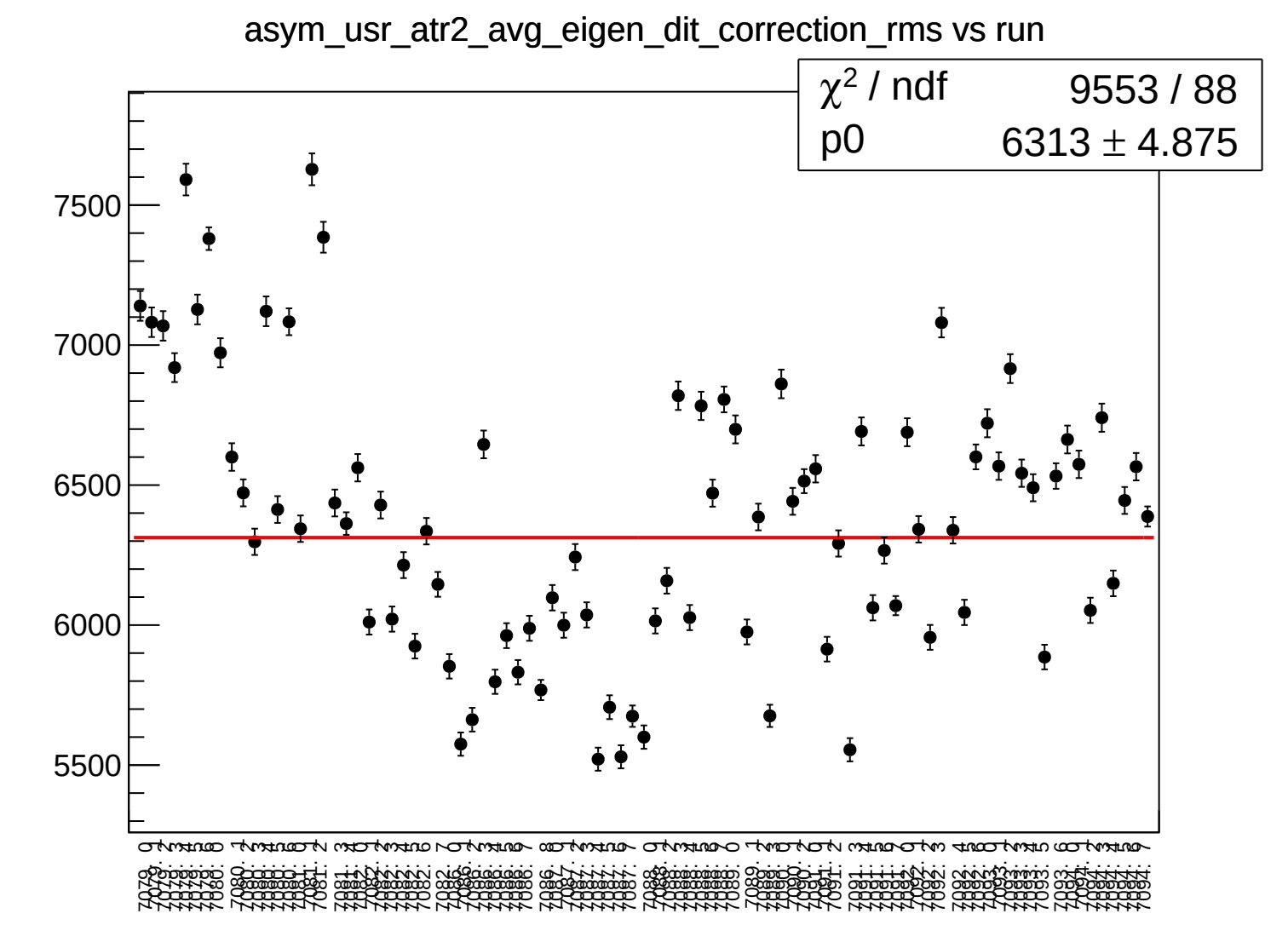

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 9553 / 88
p0 6313 ± 4.875
7500
7000
6500
6000
5500

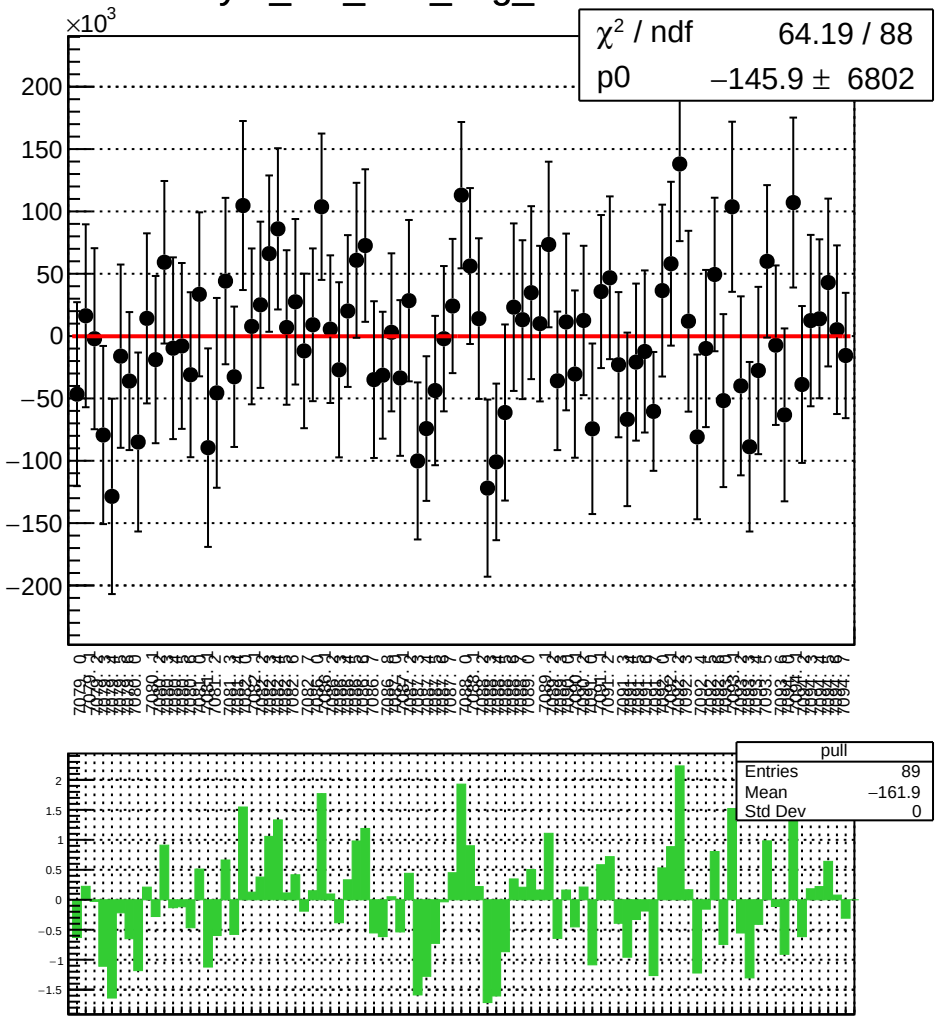

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 111.3 / 88
p0 −174.5 ± 1716
pull
Entries 89
Mean 188.7
Std Dev 0
pull1D
Entries 89
Mean −0.01233
Std Dev 1.118

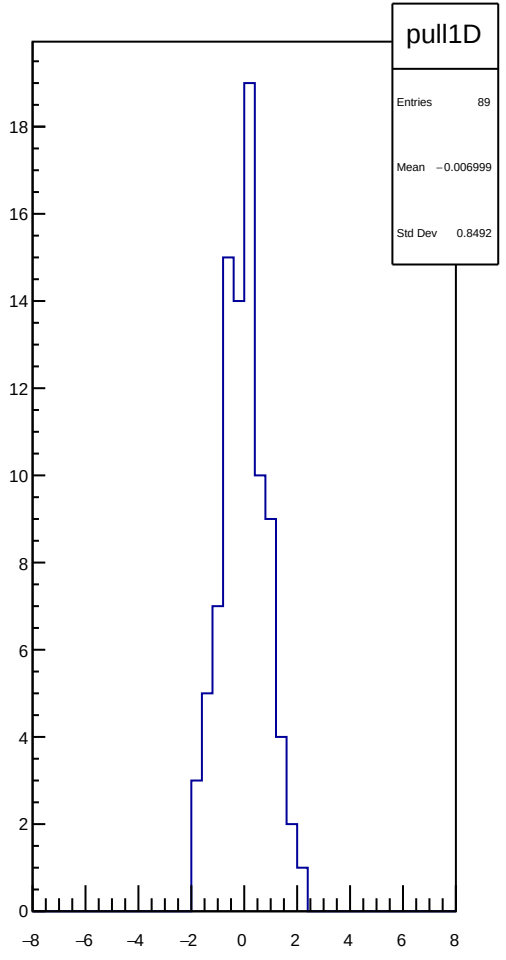

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 348.7 / 88
p0 1576 ± 1.213
1660
1640
1620
1600
1580
1560
1540
1520
1500

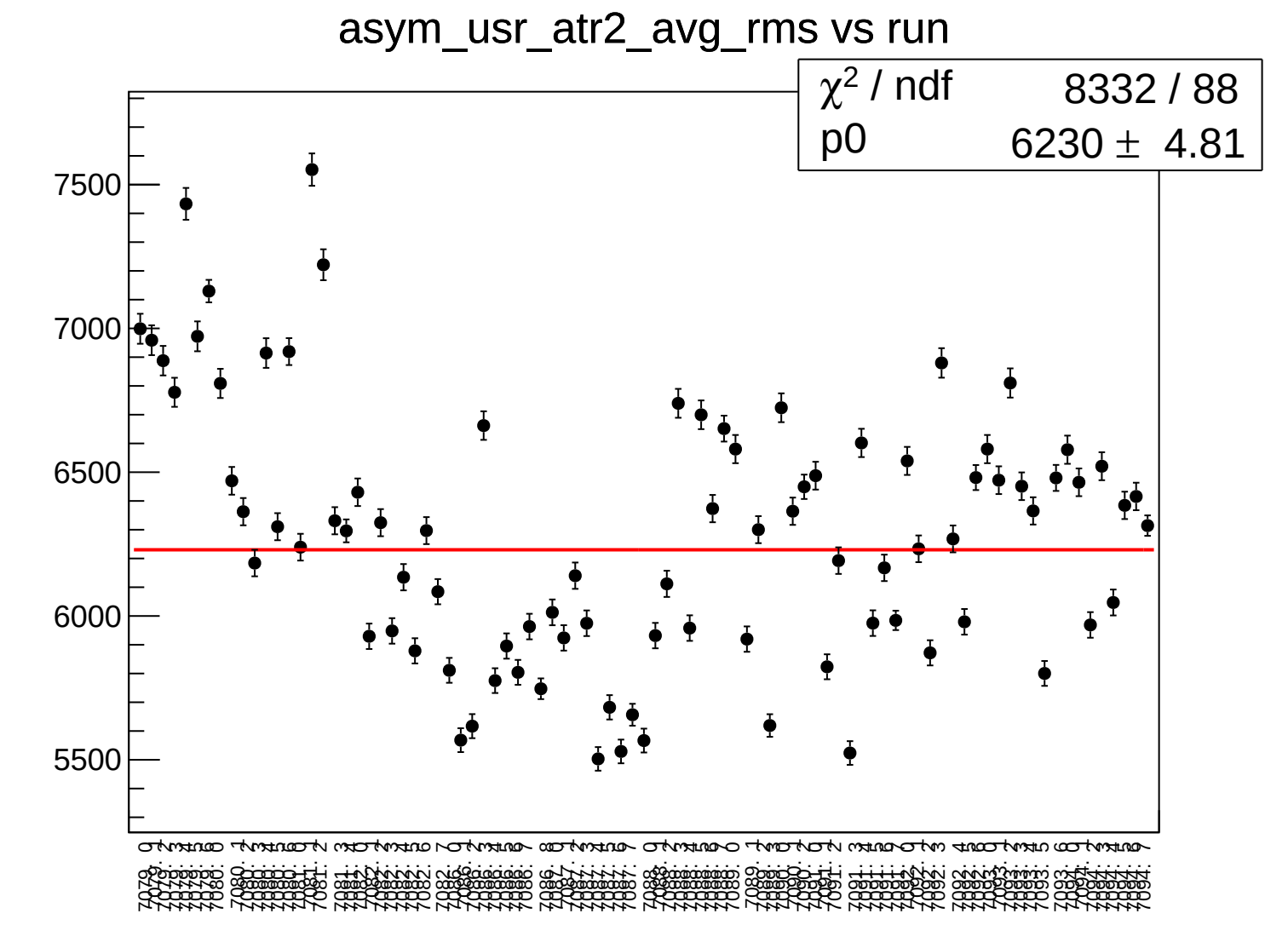

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.49 / 88
p0 −75.17 ± 6895
pull
Entries 89
Mean −370.1
Std Dev 0

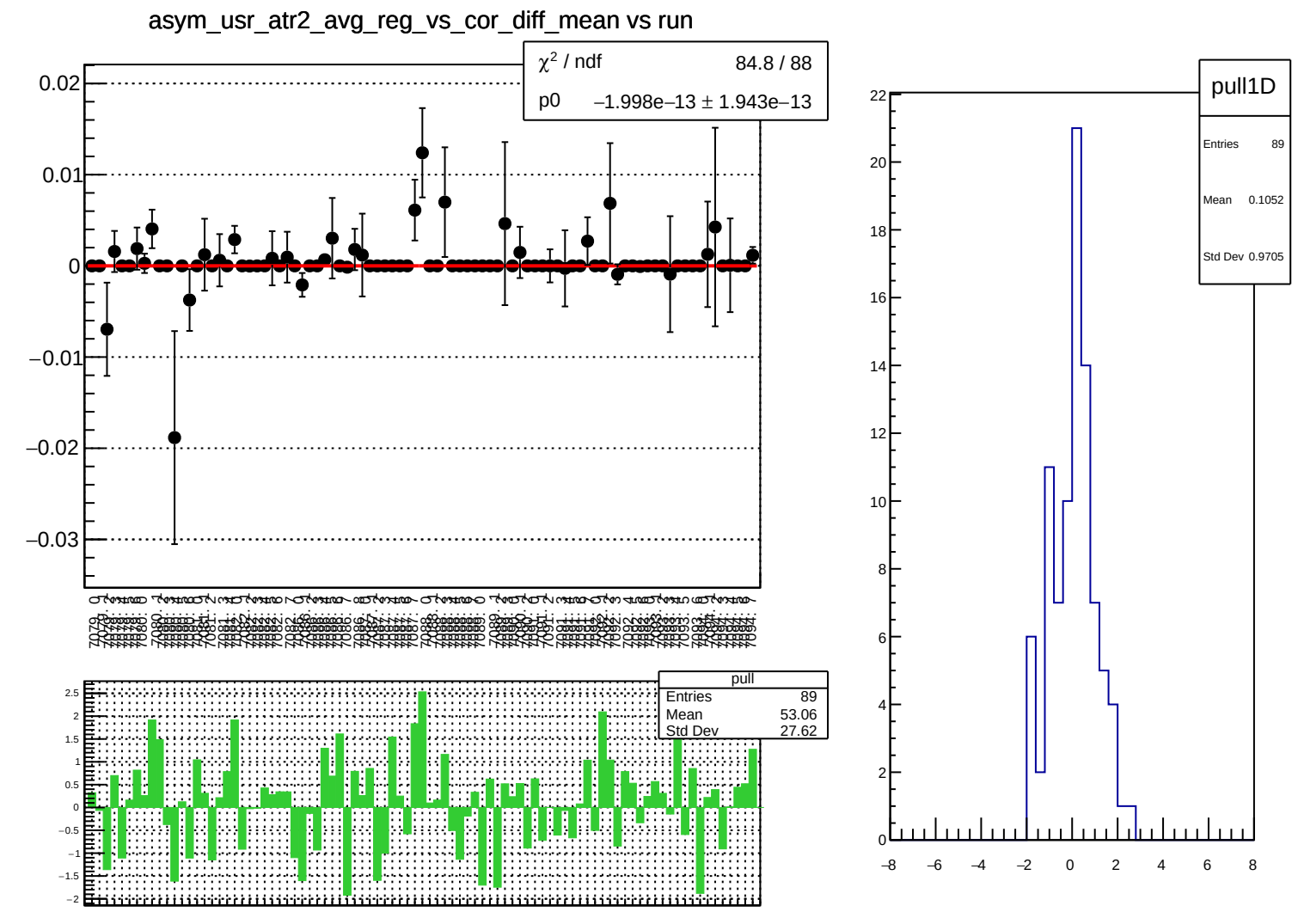

pull1D
Entries 89
Mean 0.004393
Std Dev 0.8836

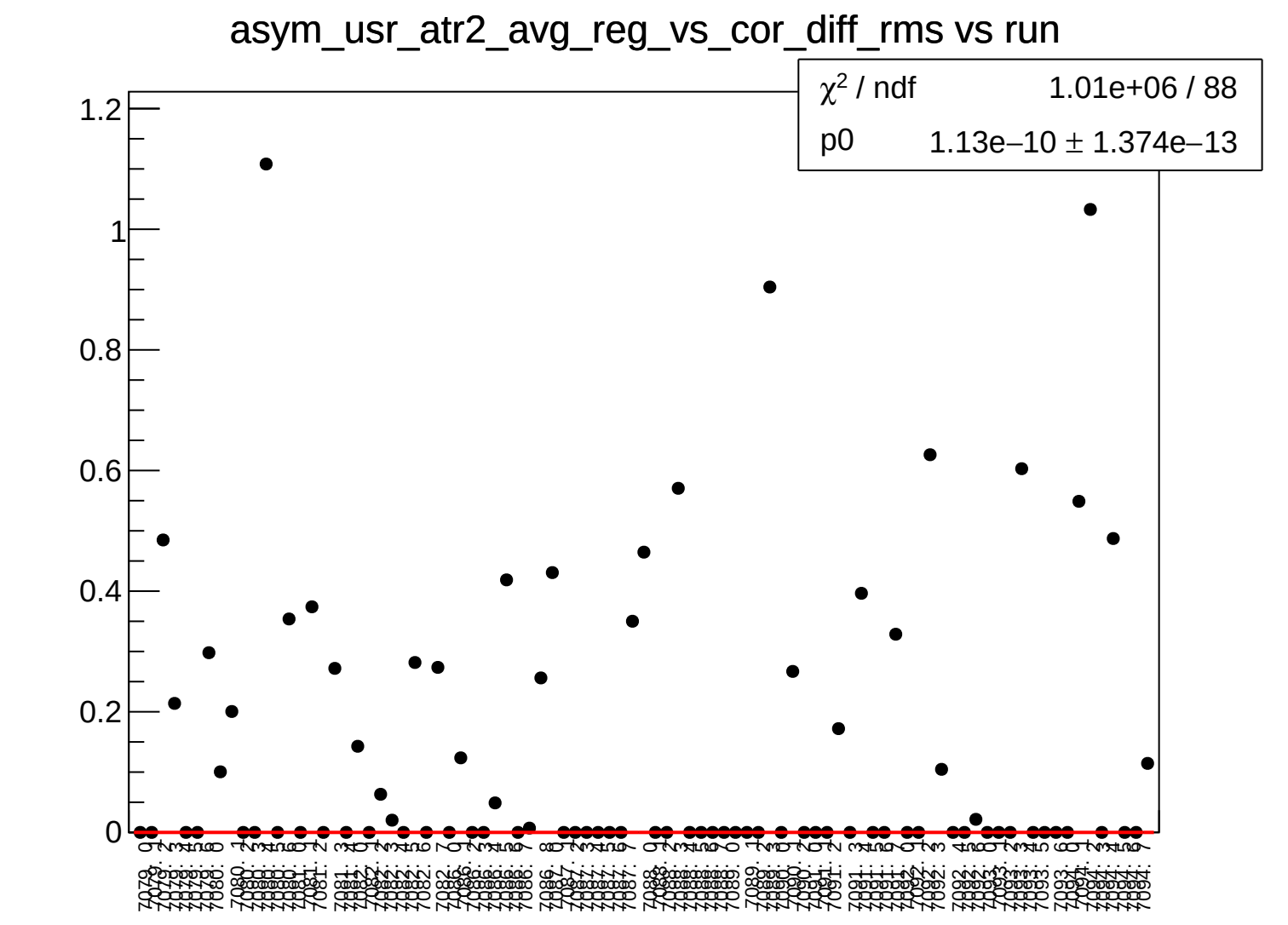

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 9553 / 88
p0 6313 ± 4.875
7500
7000
6500
6000
5500

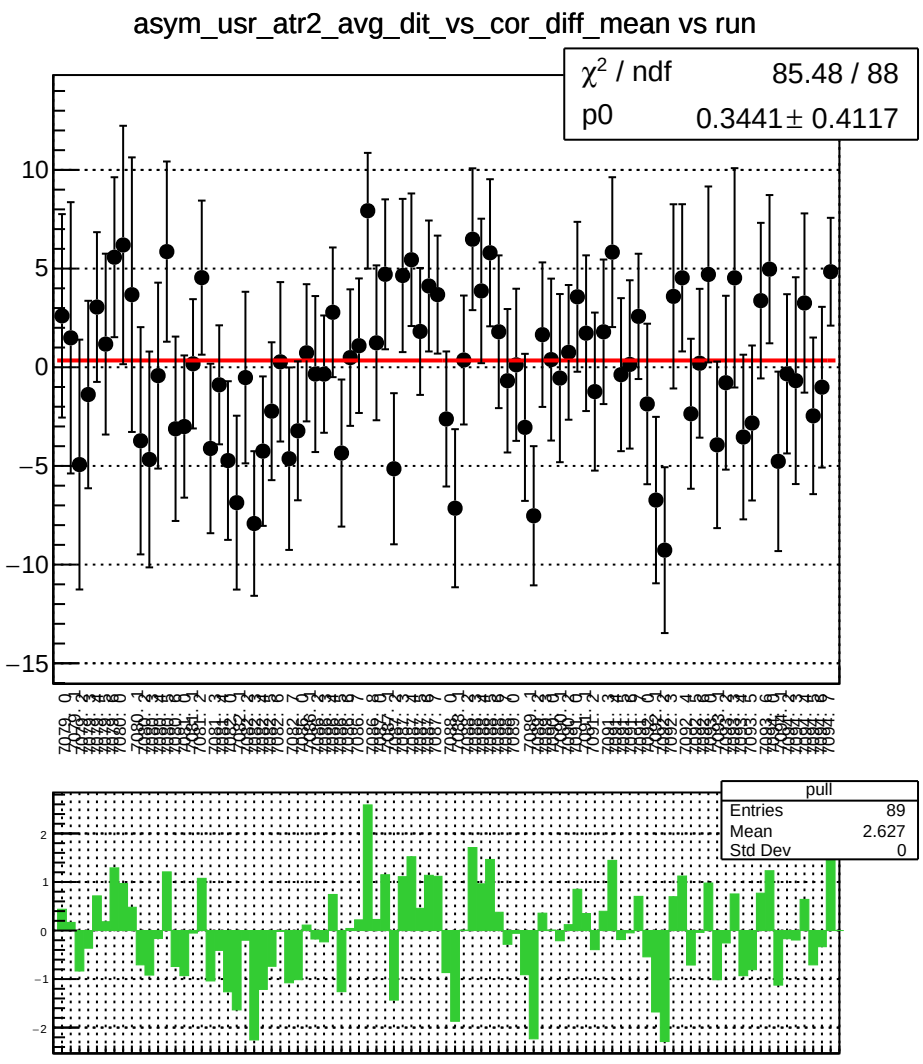

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 64.19 / 88
p0 −145.9 ± 6802
pull
Entries 89
Mean −161.9
Std Dev 0

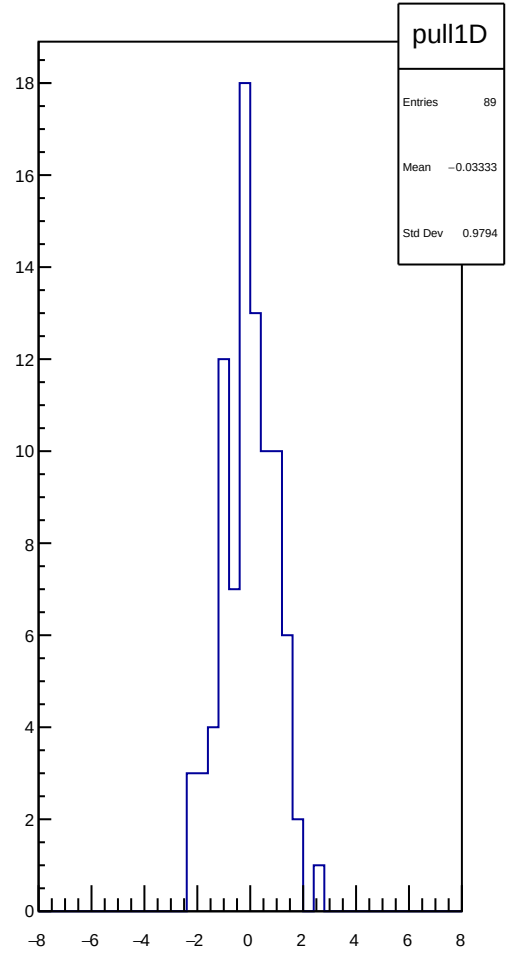

pull1D
Entries 89
Mean −0.006999
Std Dev 0.8492

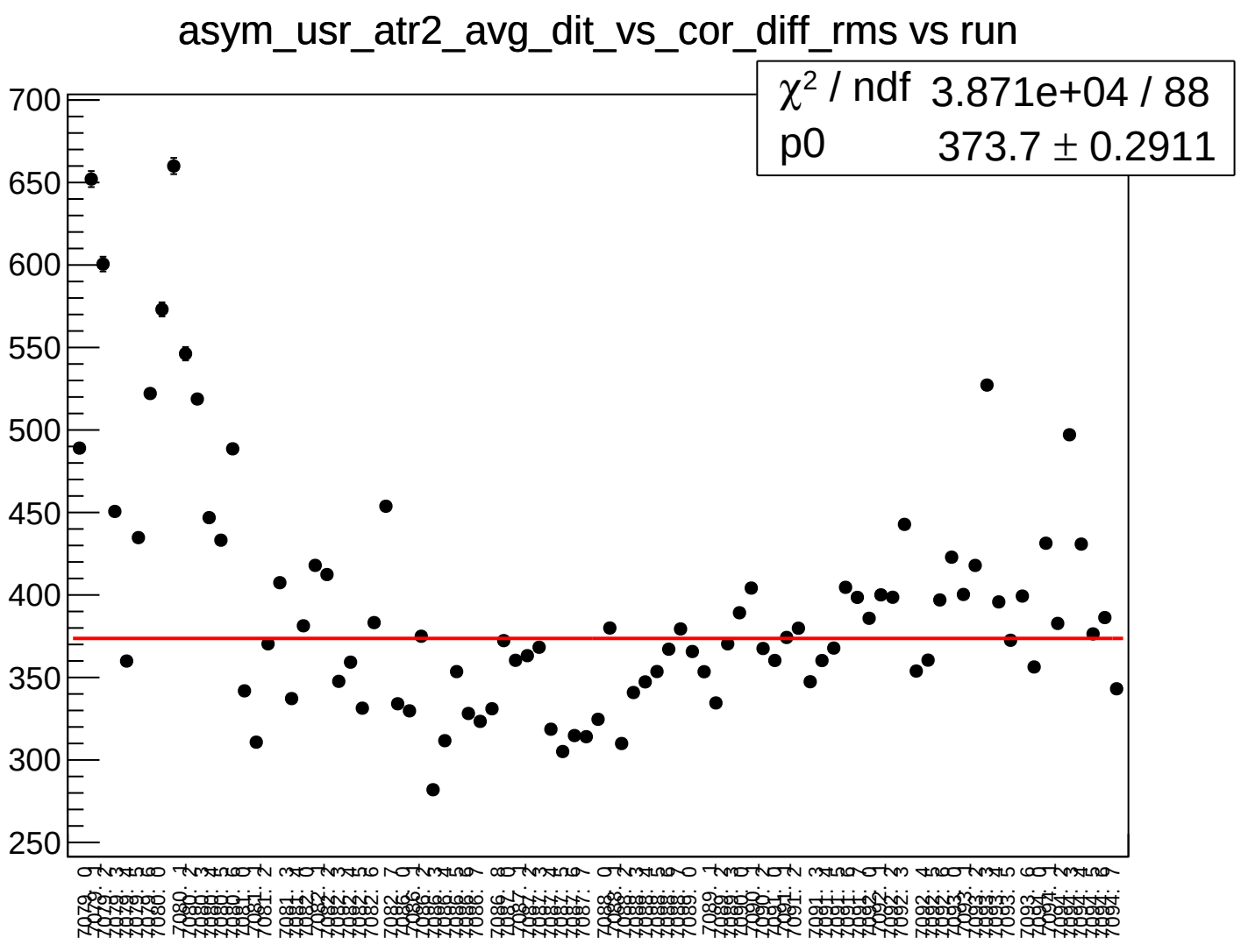

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 8332 / 88
p0 6230 ± 4.81
7500
7000
6500
6000
5500

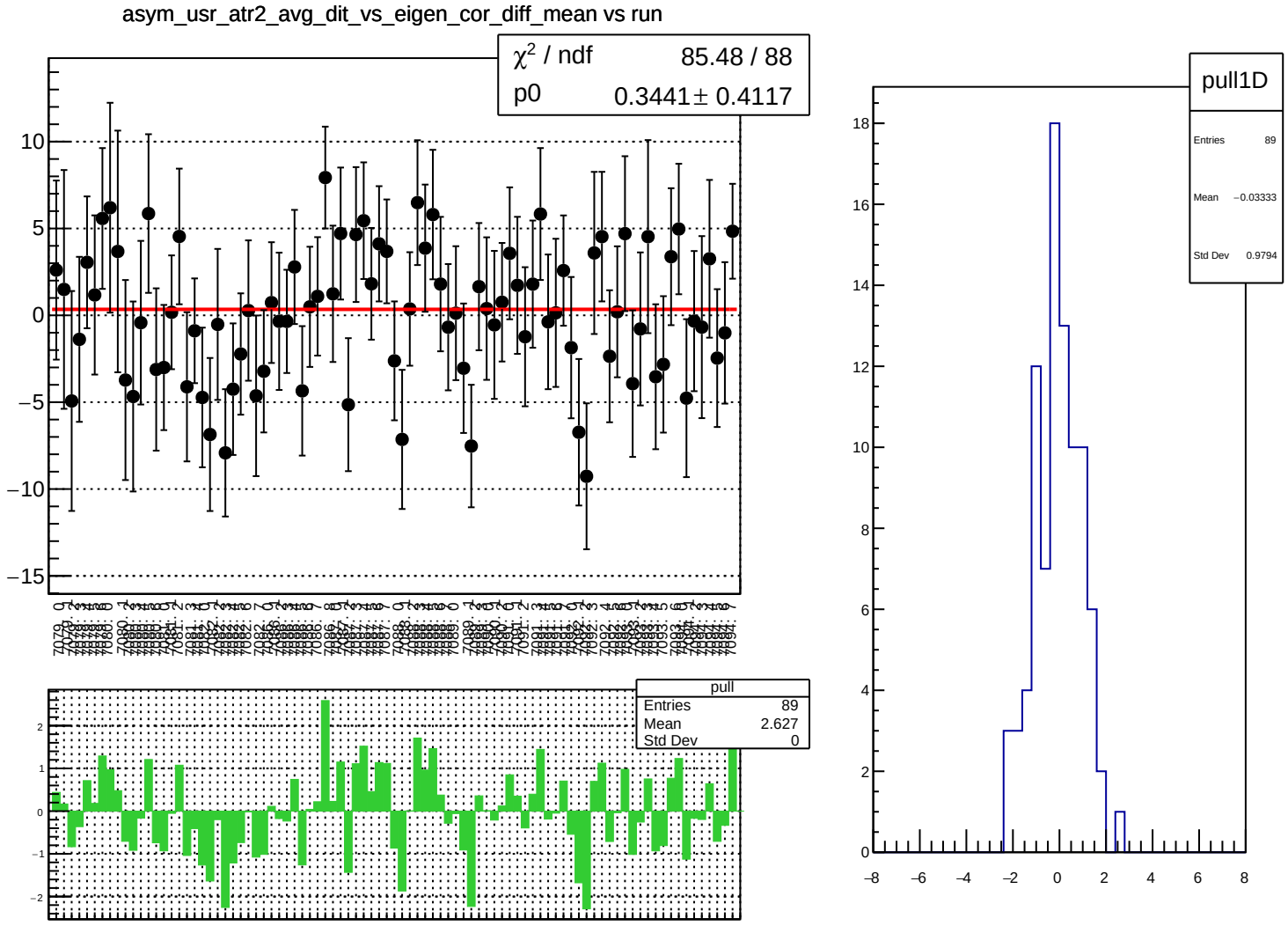

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.8 / 88
p0 −1.998e−13 ± 1.943e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 53.06
Std Dev 27.62
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.1052
Std Dev 0.9705
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

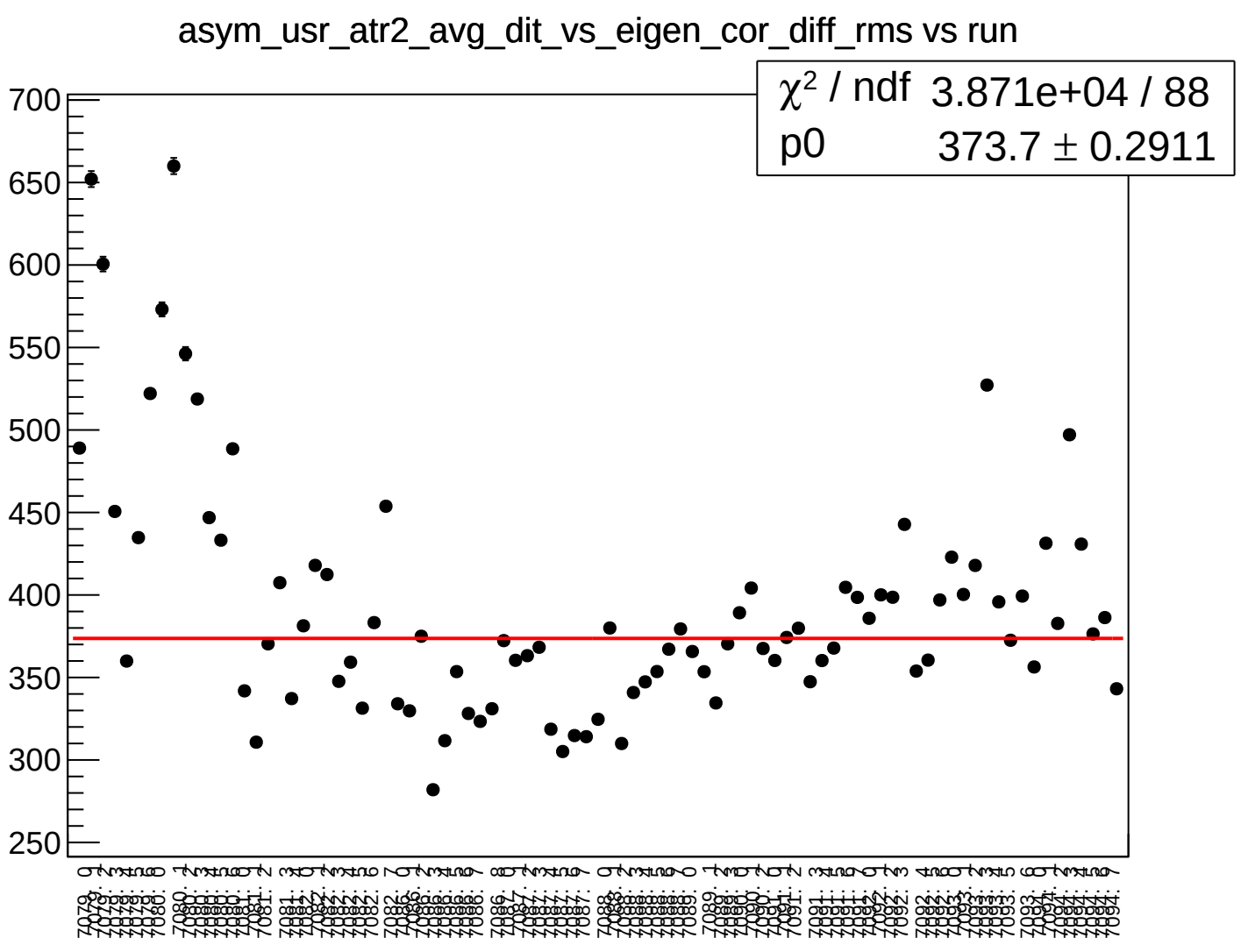

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.01e+06 / 88
p0 1.13e−10 ± 1.374e−13
1.2
1
0.8
0.6
0.4
0.2
0

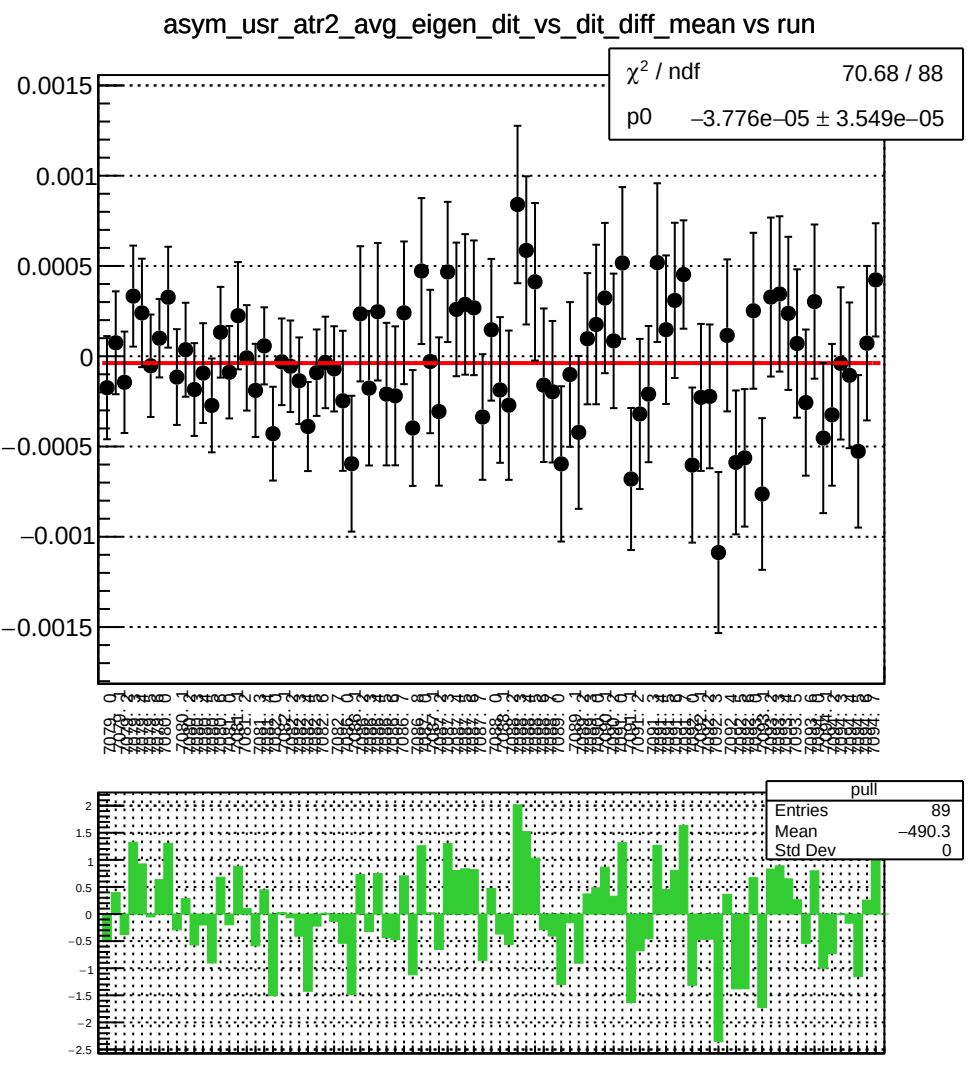

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.48 / 88
p0 0.3441 ± 0.4117
pull
Entries 89
Mean 2.627
Std Dev 0

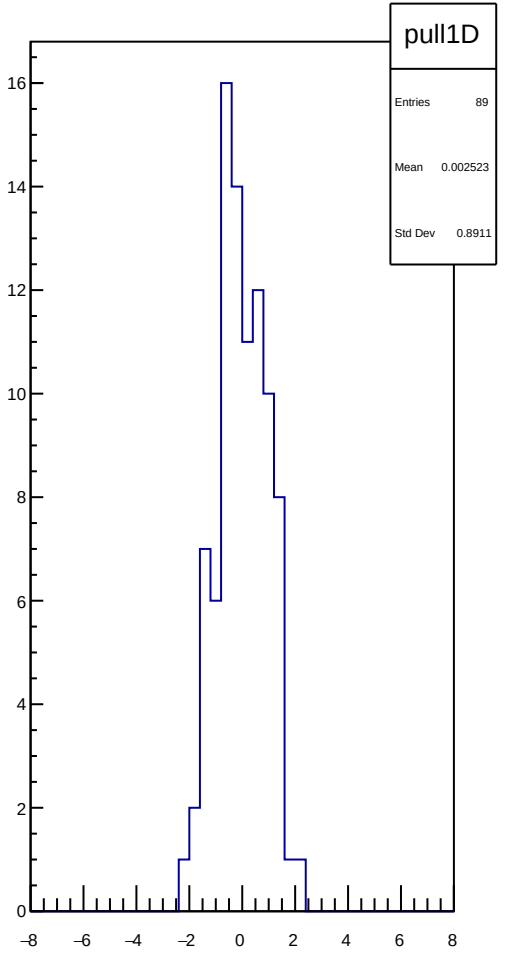

pull1D
Entries 89
Mean −0.03333
Std Dev 0.9794

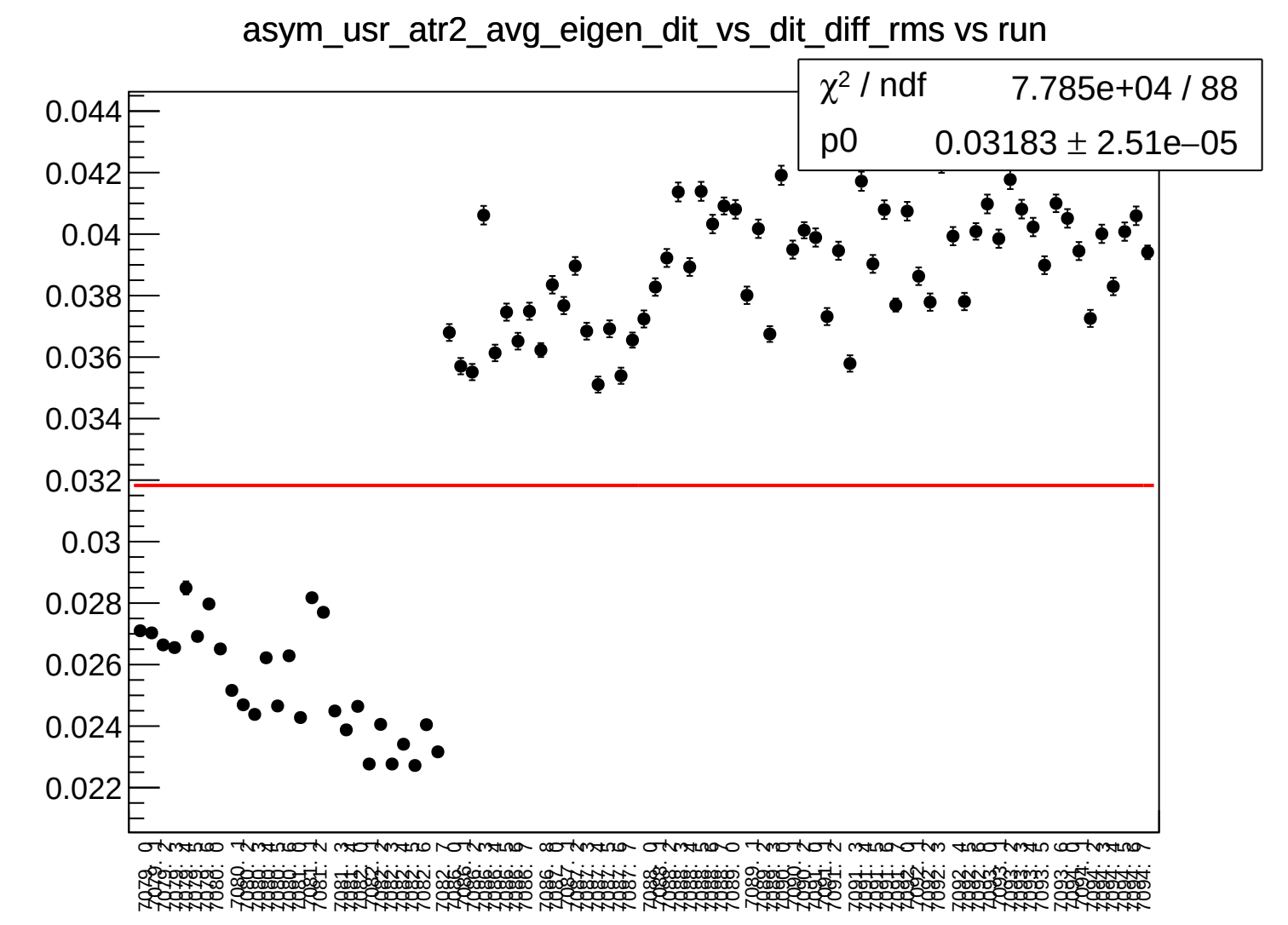

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.871e+04 / 88
p0 373.7 ± 0.2911
700
650
600
550
500
450
400
350
300
250

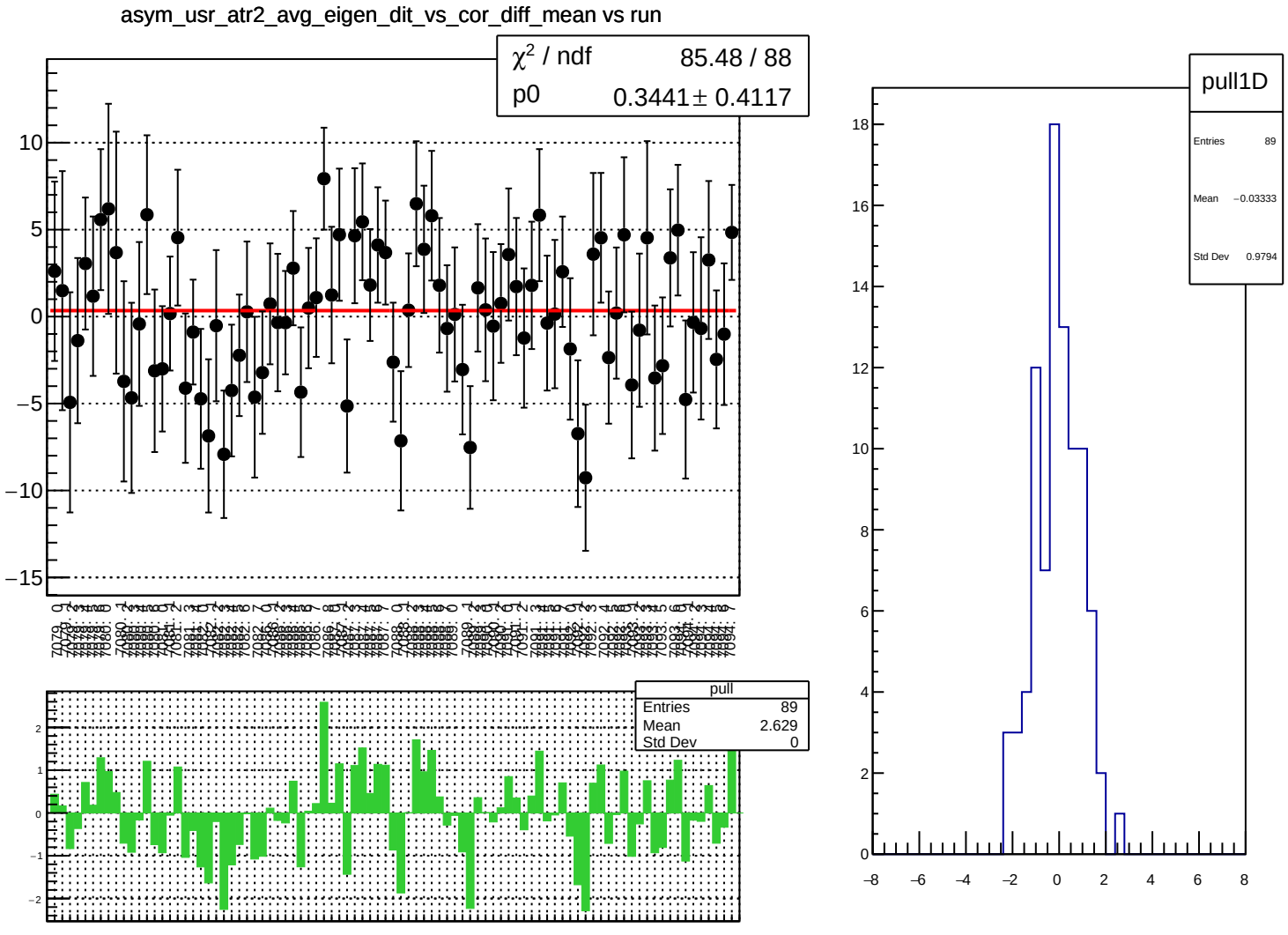

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.48 / 88
p0 0.3441 ± 0.4117
pull
Entries 89
Mean 2.627
Std Dev 0
pull1D
Entries 89
Mean −0.03333
Std Dev 0.9794

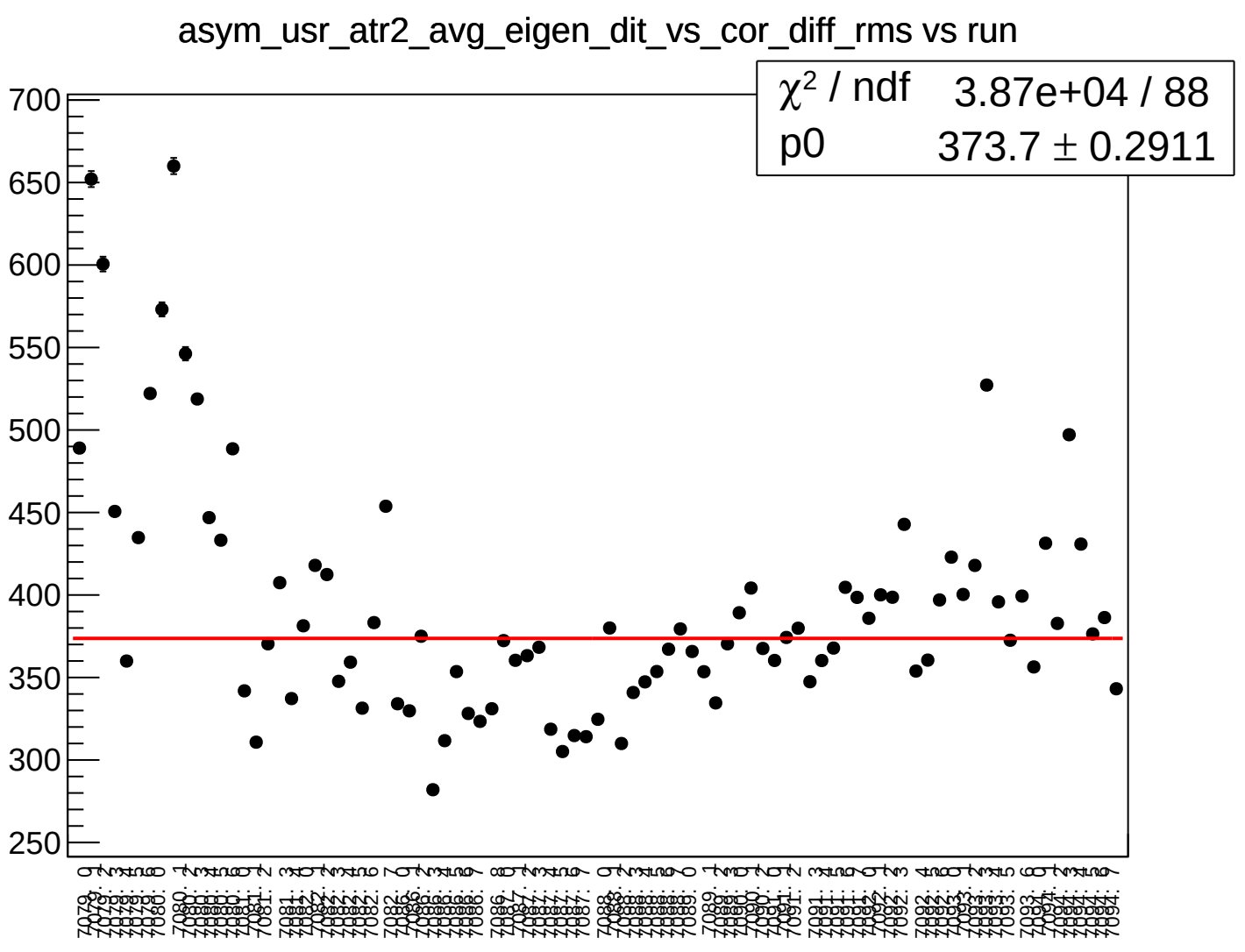

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.871e+04 / 88
p0 373.7 ± 0.2911
700
650
600
550
500
450
400
350
300
250

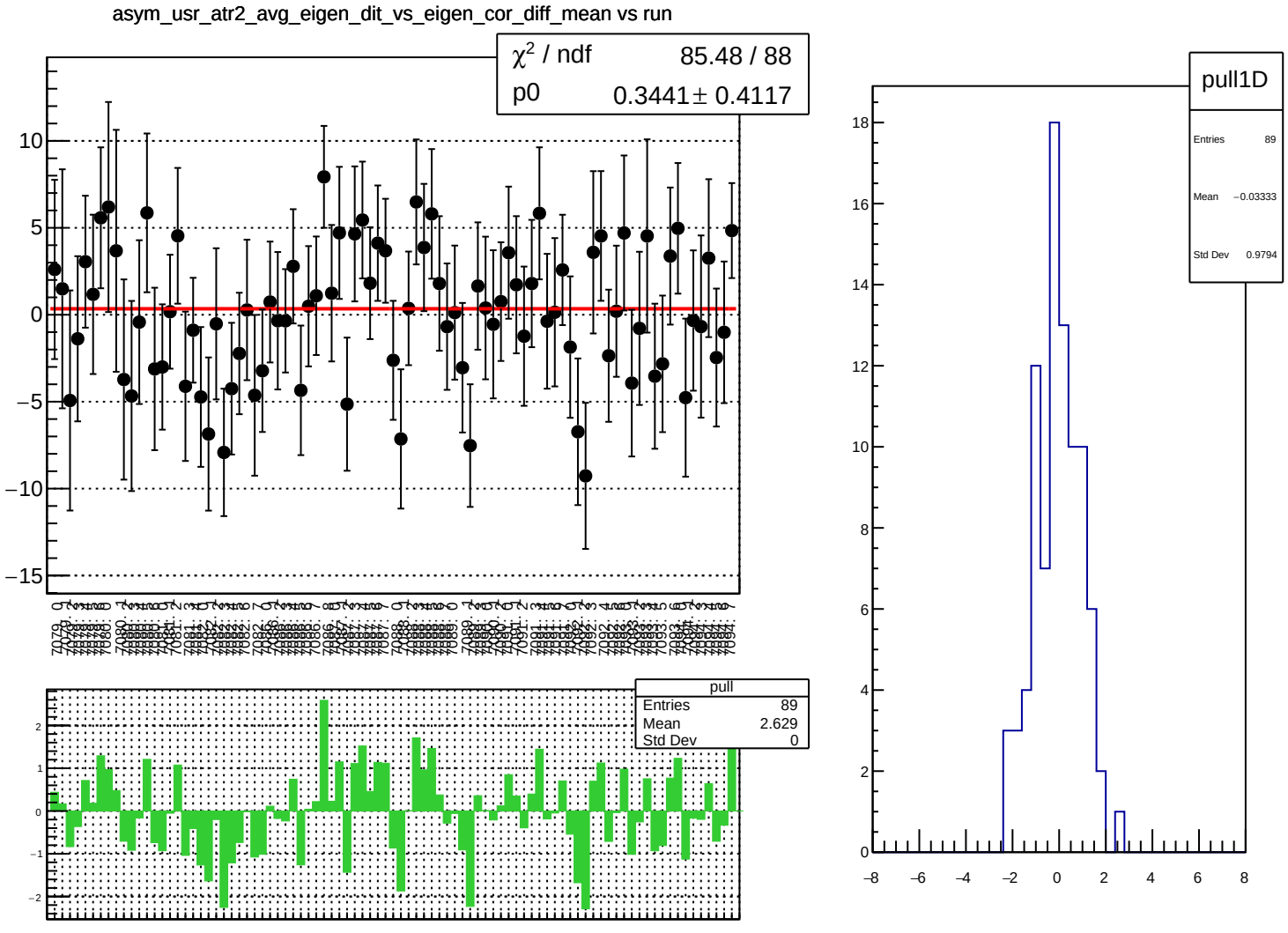

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.68 / 88
p0 −3.776e−05 ± 3.549e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean −490.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

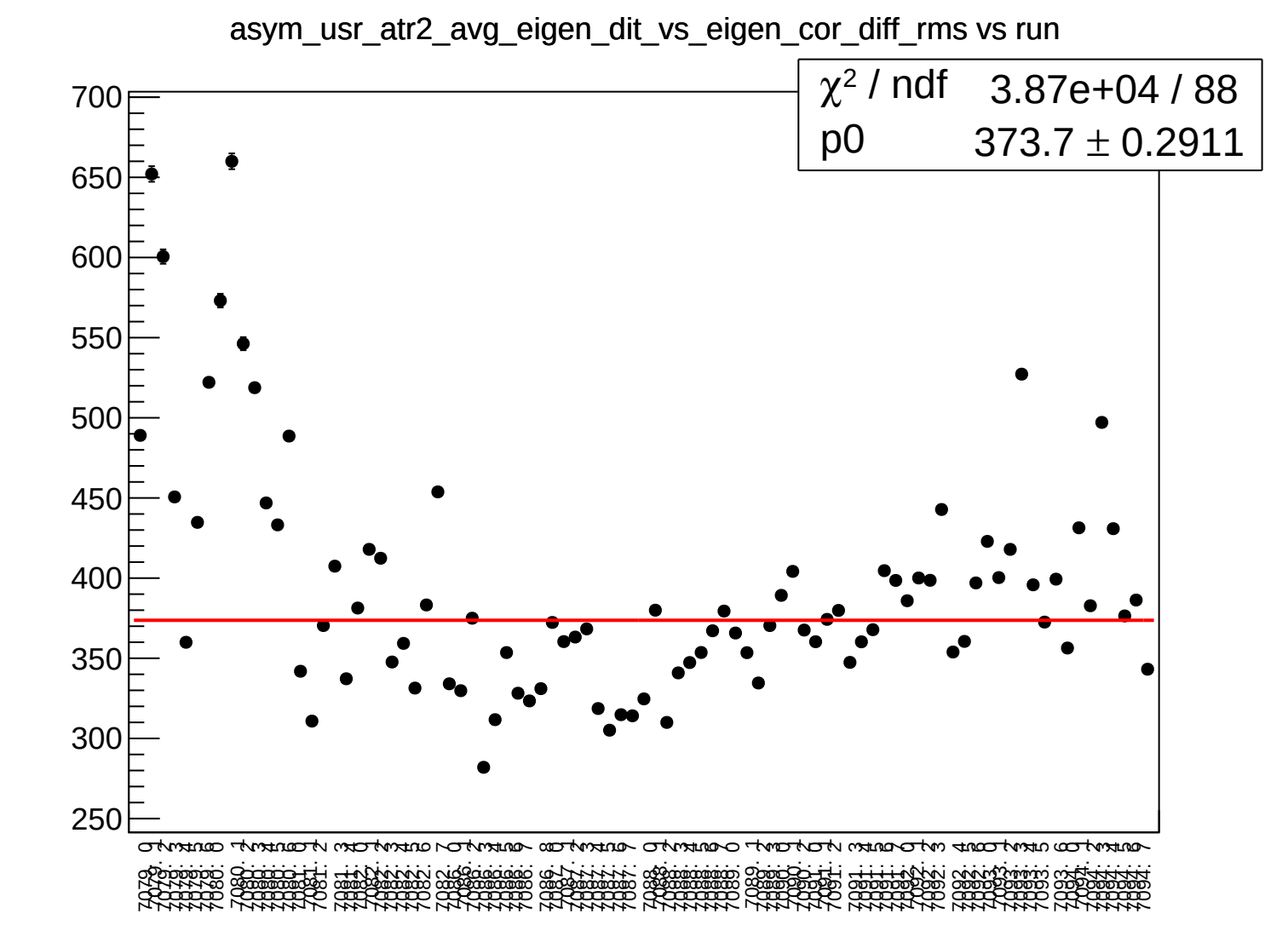

pull1D
Entries 89
Mean 0.002523
Std Dev 0.8911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

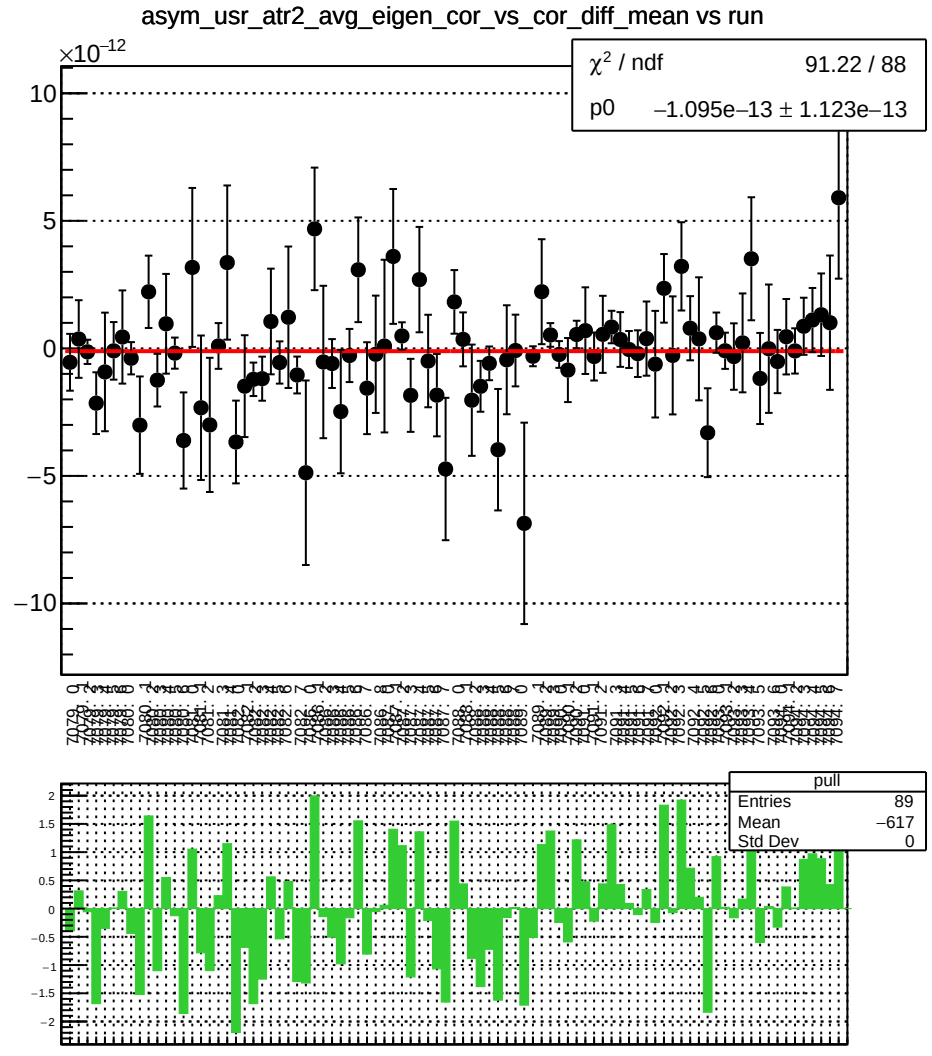

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.785e+04 / 88
p0 0.03183 ± 2.51e−05
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022

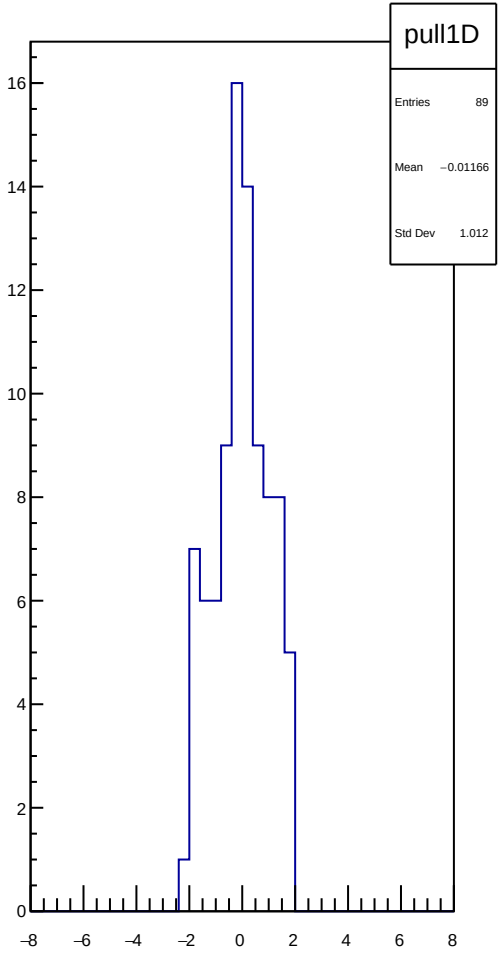

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.48 / 88
p0 0.3441 ± 0.4117
pull
Entries 89
Mean 2.629
Std Dev 0
pull1D
Entries 89
Mean −0.03333
Std Dev 0.9794

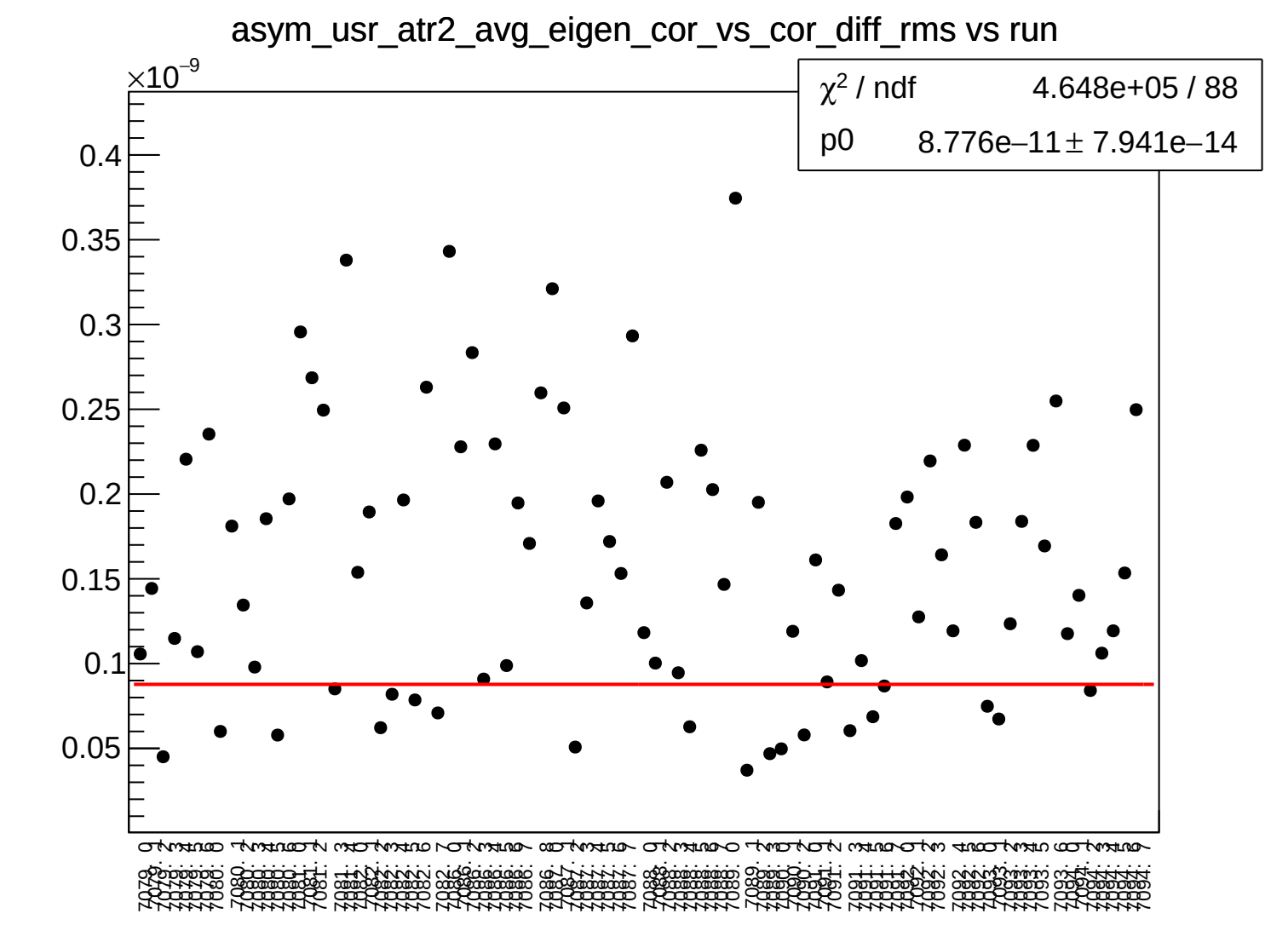

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.87e+04 / 88
p0 373.7 ± 0.2911
700
650
600
550
500
450
400
350
300
250

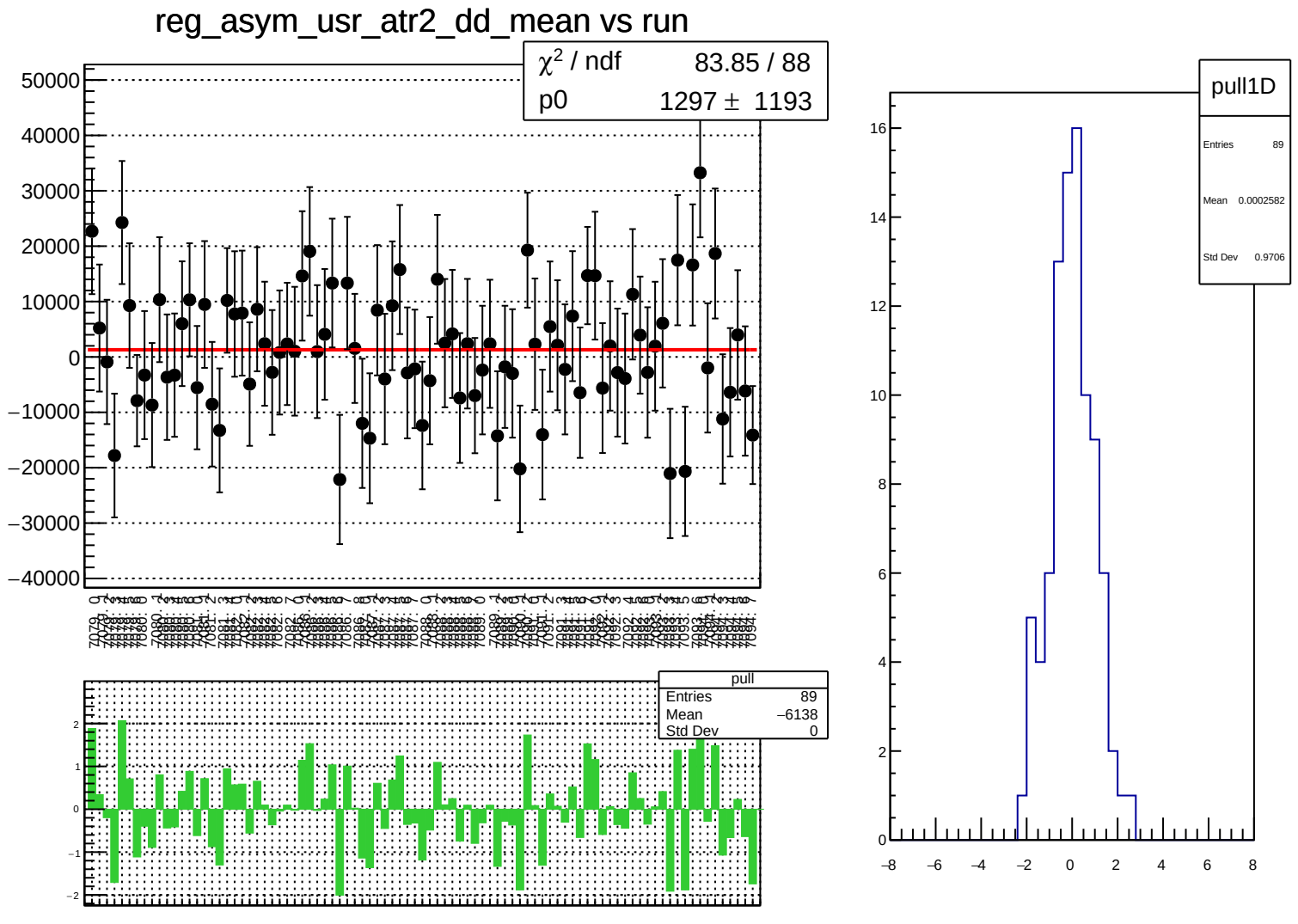

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.48 / 88
p0 0.3441 ± 0.4117
pull
Entries 89
Mean 2.629
Std Dev 0
pull1D
Entries 89
Mean −0.03333
Std Dev 0.9794

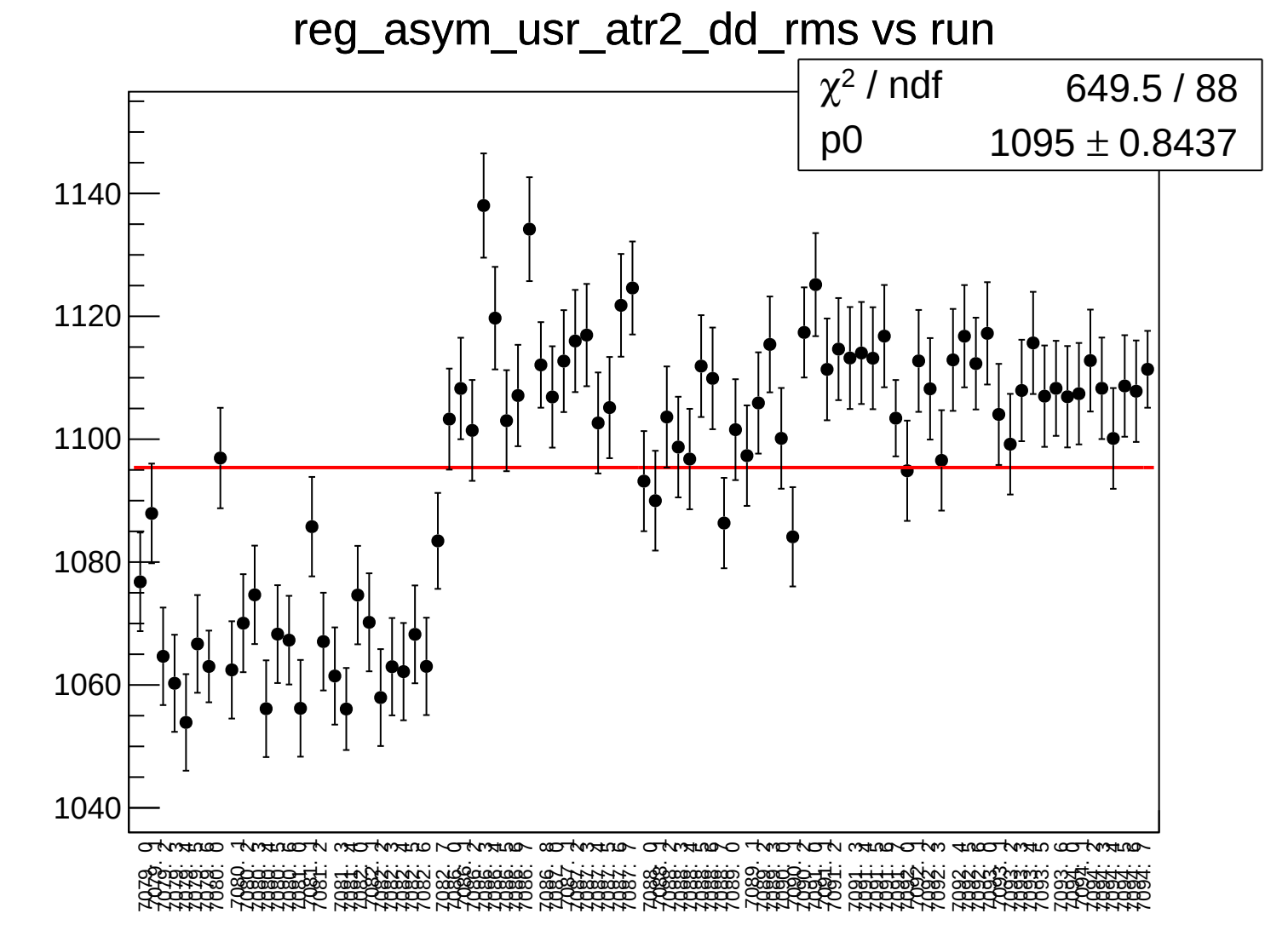

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.87e+04 / 88
p0 373.7 ± 0.2911
700
650
600
550
500
450
400
350
300
250

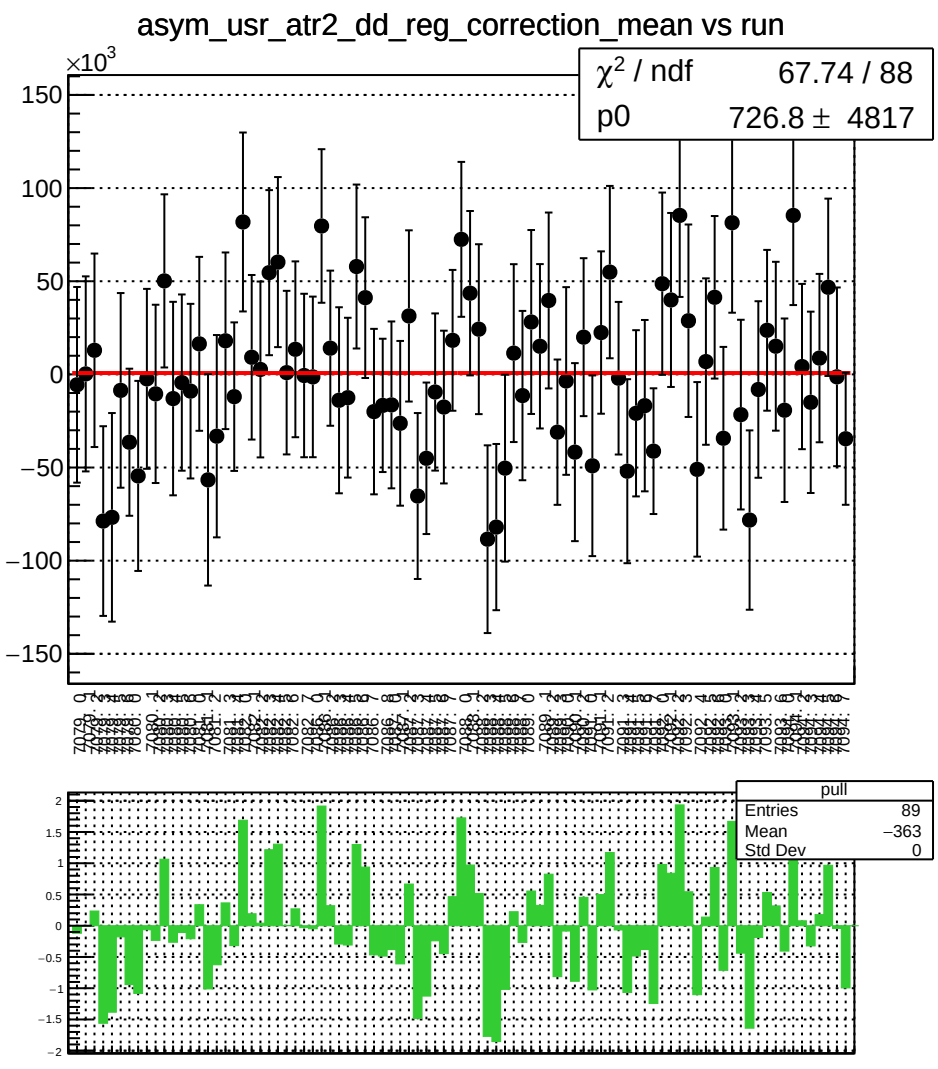

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.22 / 88
p0 −1.095e−13 ± 1.123e−13
pull
Entries 89
Mean −617
Std Dev 0

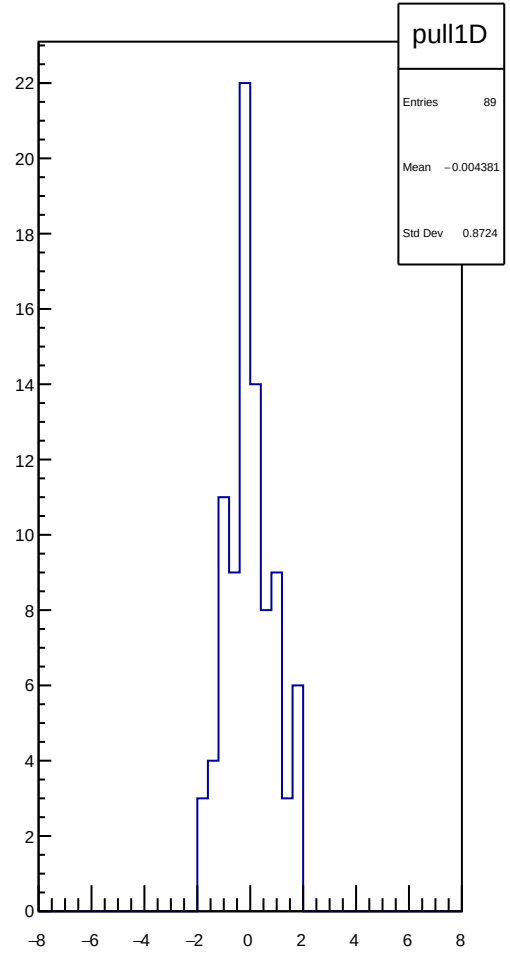

pull1D
Entries 89
Mean −0.01166
Std Dev 1.012

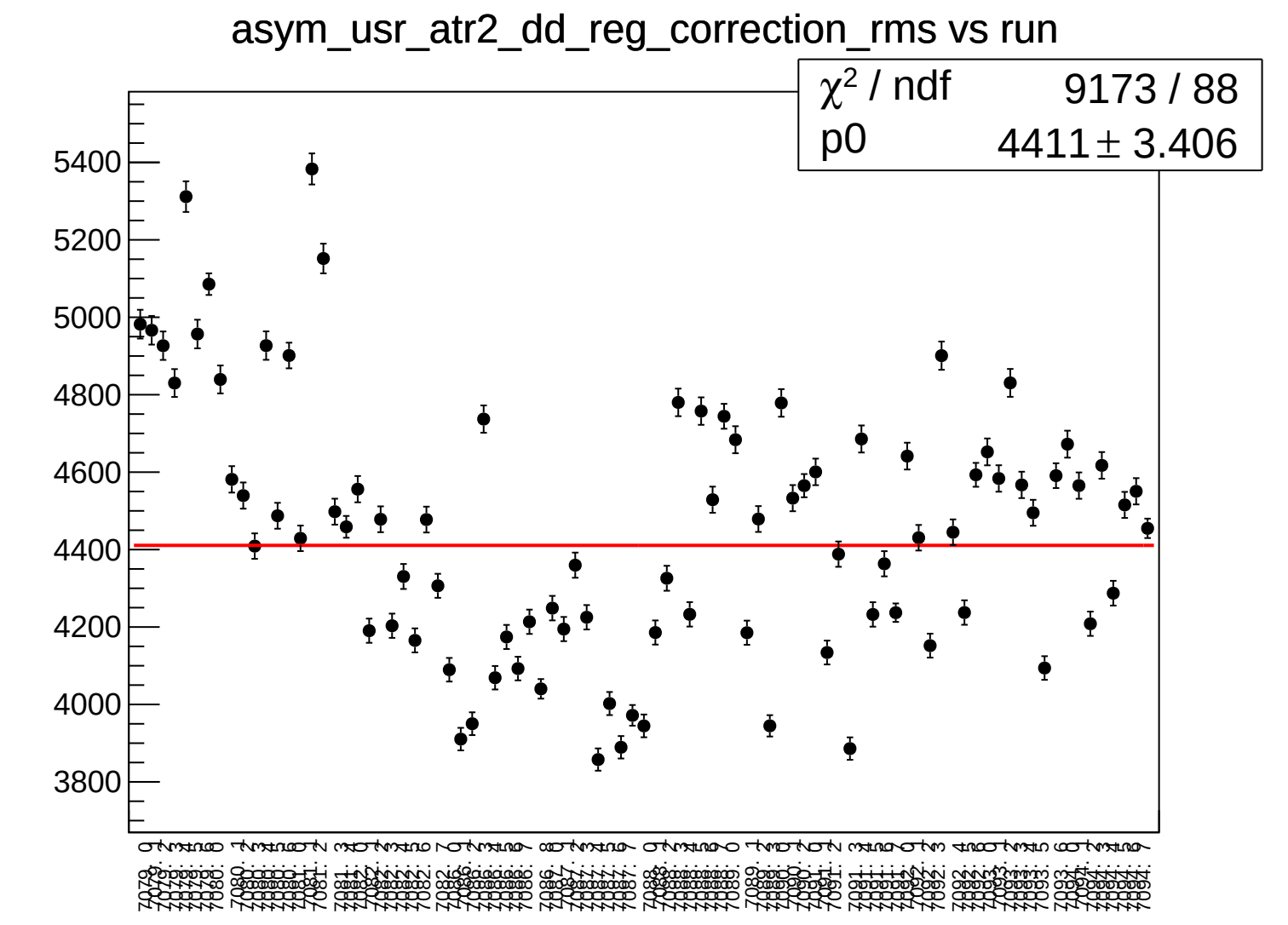

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.648e+05 / 88
p0 8.776e−11 ± 7.941e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

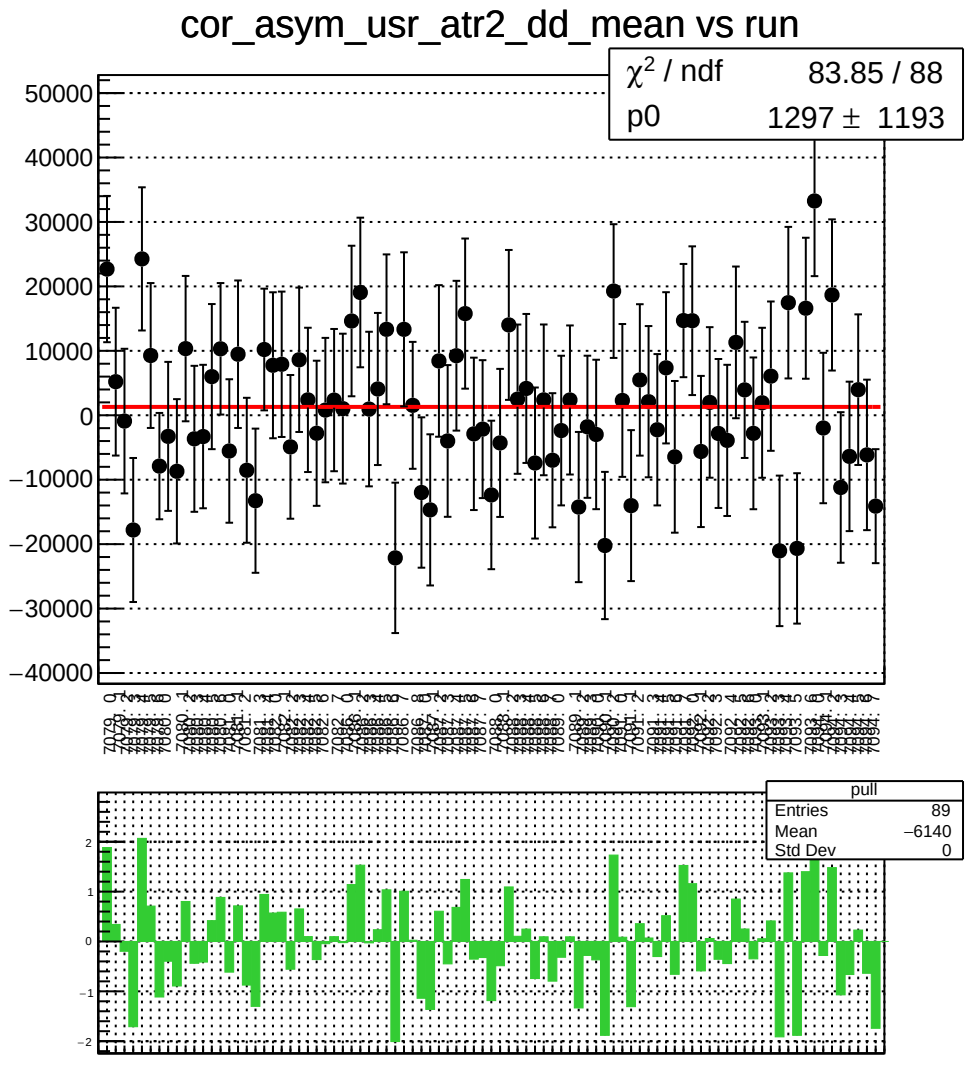

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 83.85 / 88
p0 1297 ± 1193
pull
Entries 89
Mean −6138
Std Dev 0
pull1D
Entries 89
Mean 0.0002582
Std Dev 0.9706

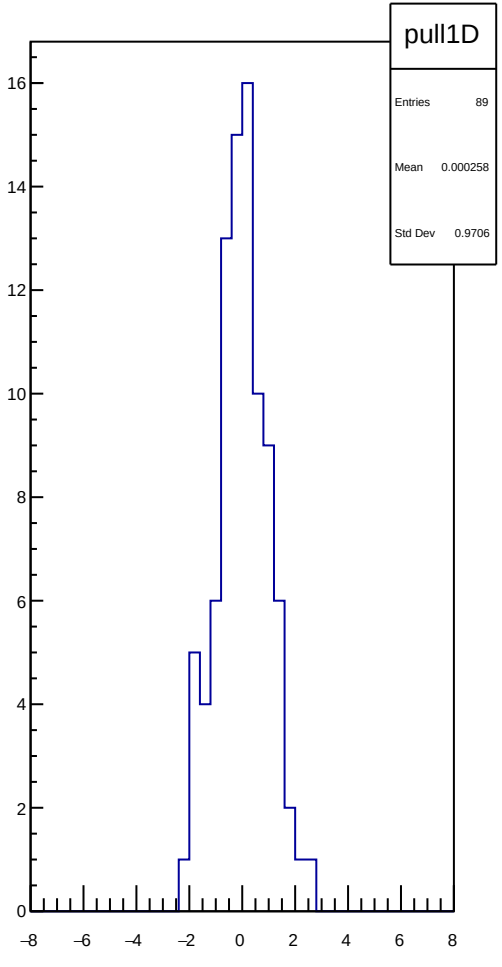

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 649.5 / 88
p0 1095 ± 0.8437
1140
1120
1100
1080
1060
1040

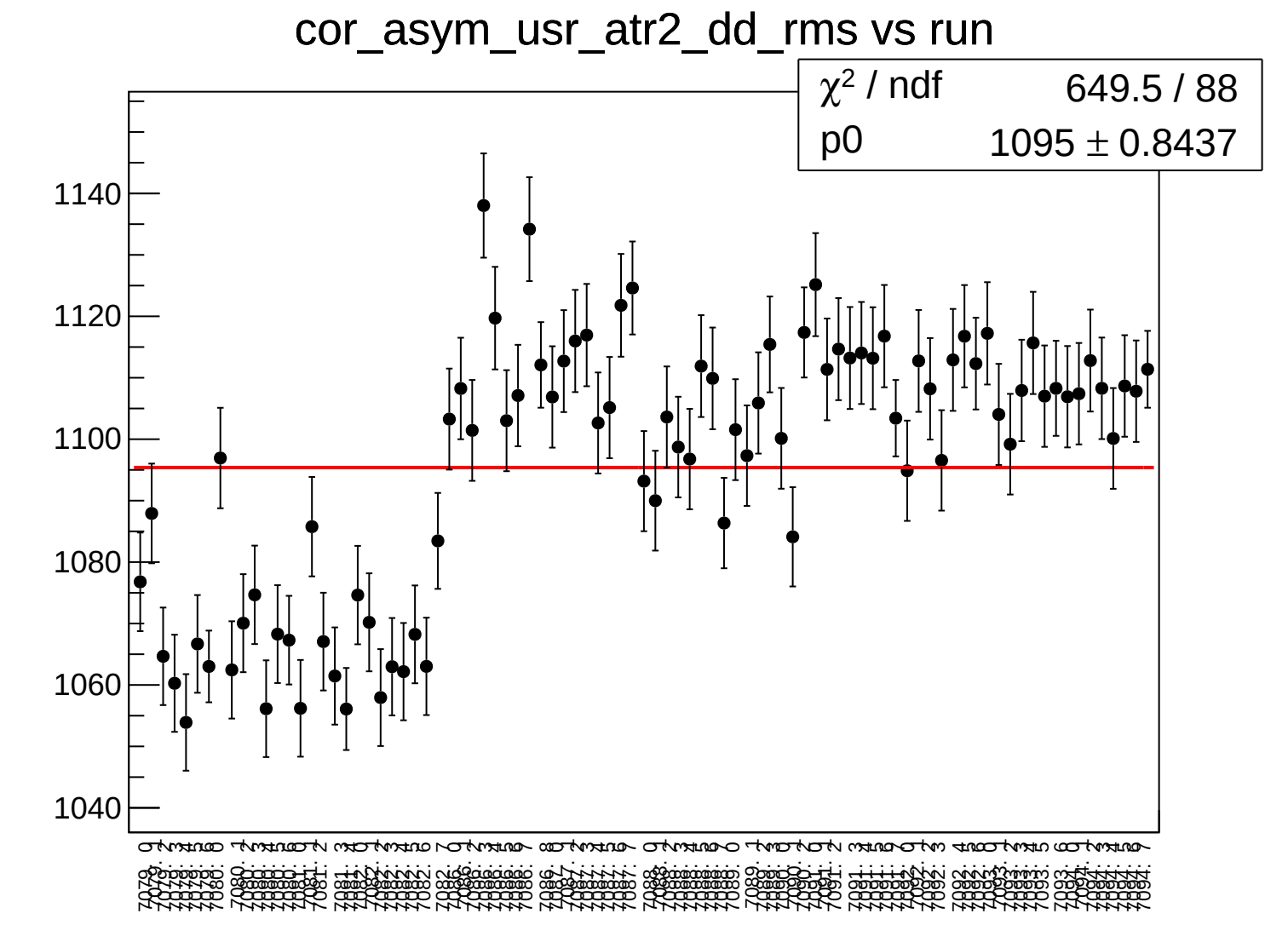

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 67.74 / 88
p0 726.8 ± 4817
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −363
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

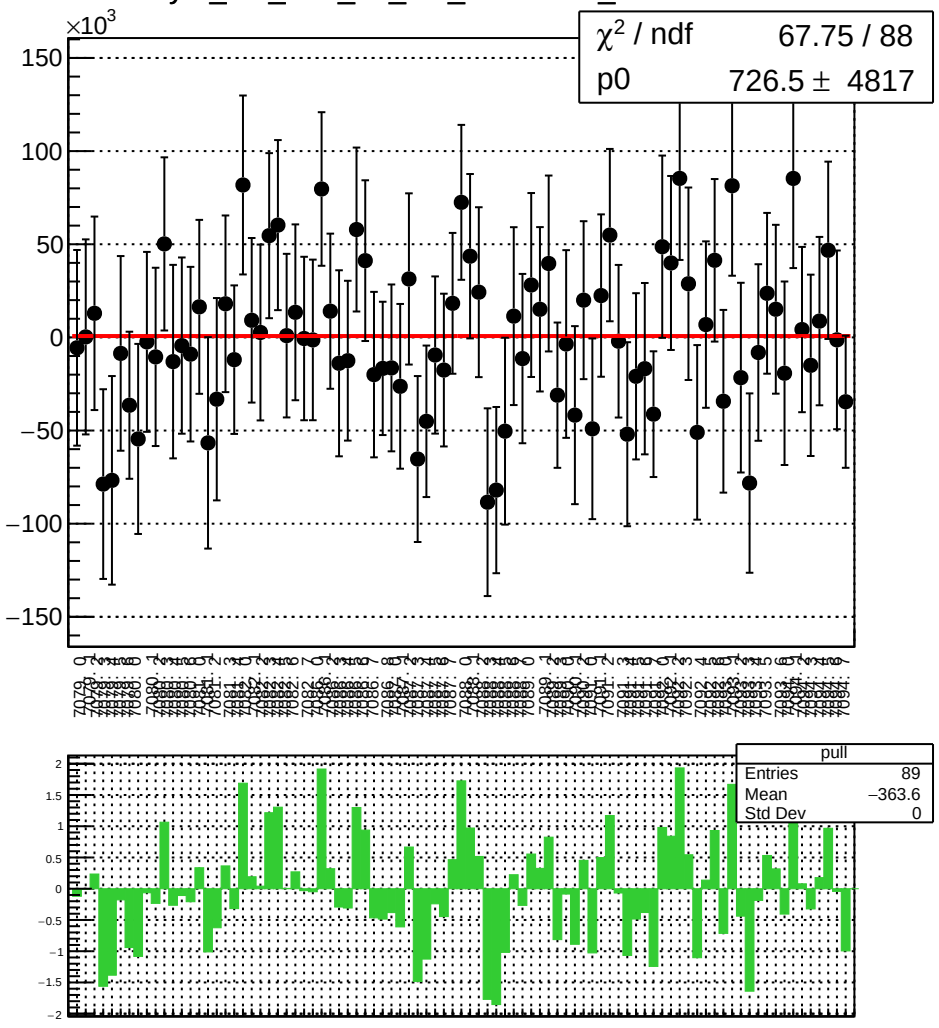

pull1D
Entries 89
Mean −0.004381
Std Dev 0.8724
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

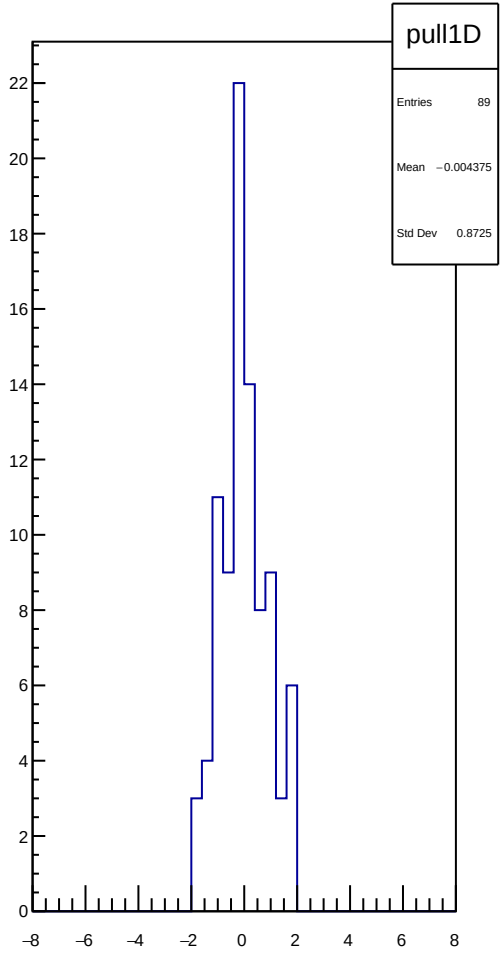

asym_usr_atr2_dd_reg_correction_rms vs run
χ^2 / ndf 9173 / 88
p0 4411 ± 3.406
5400
5200
5000
4800
4600
4400
4200
4000
3800

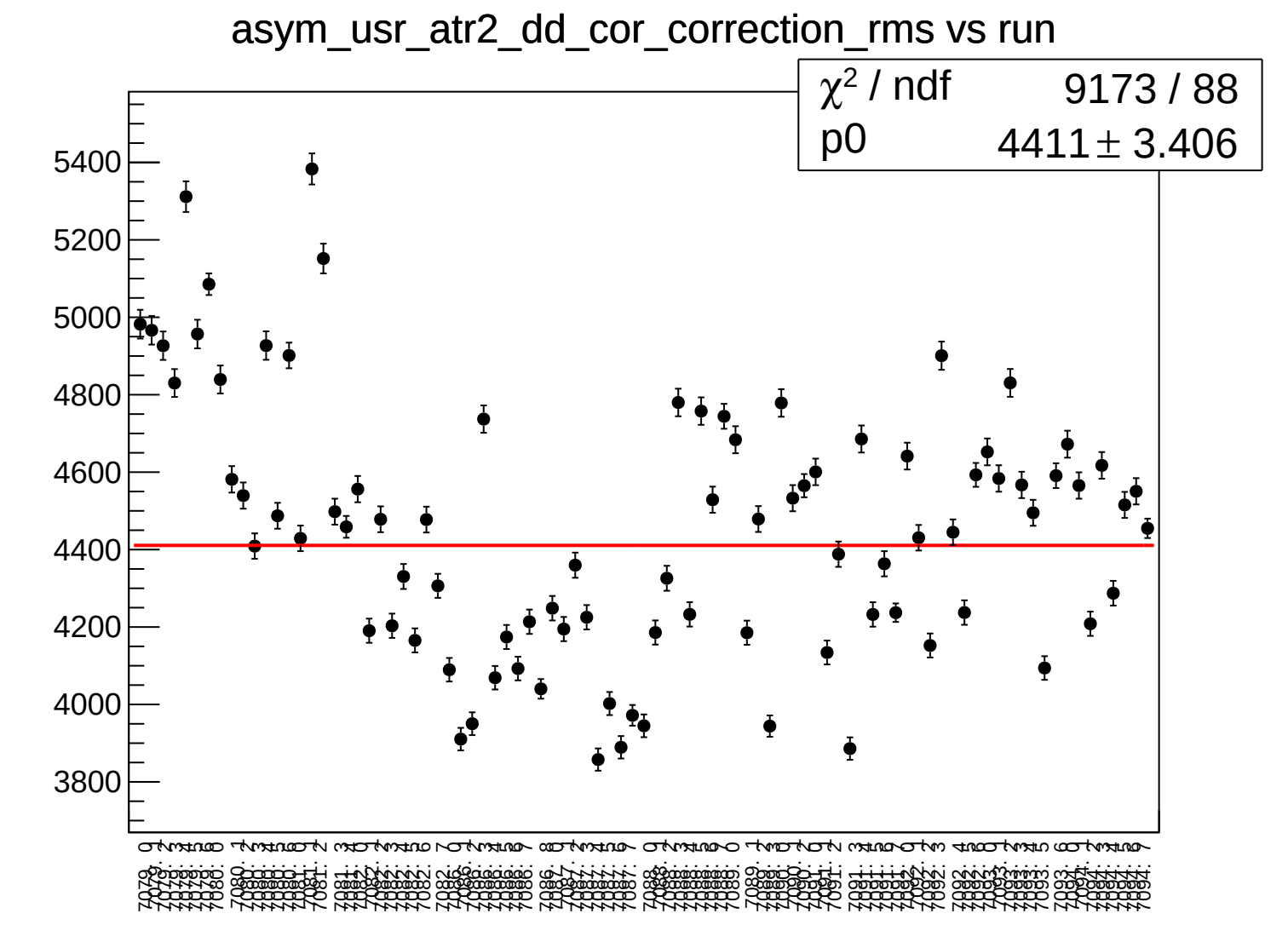

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 83.85 / 88
p0 1297 ± 1193
pull
Entries 89
Mean −6140
Std Dev 0

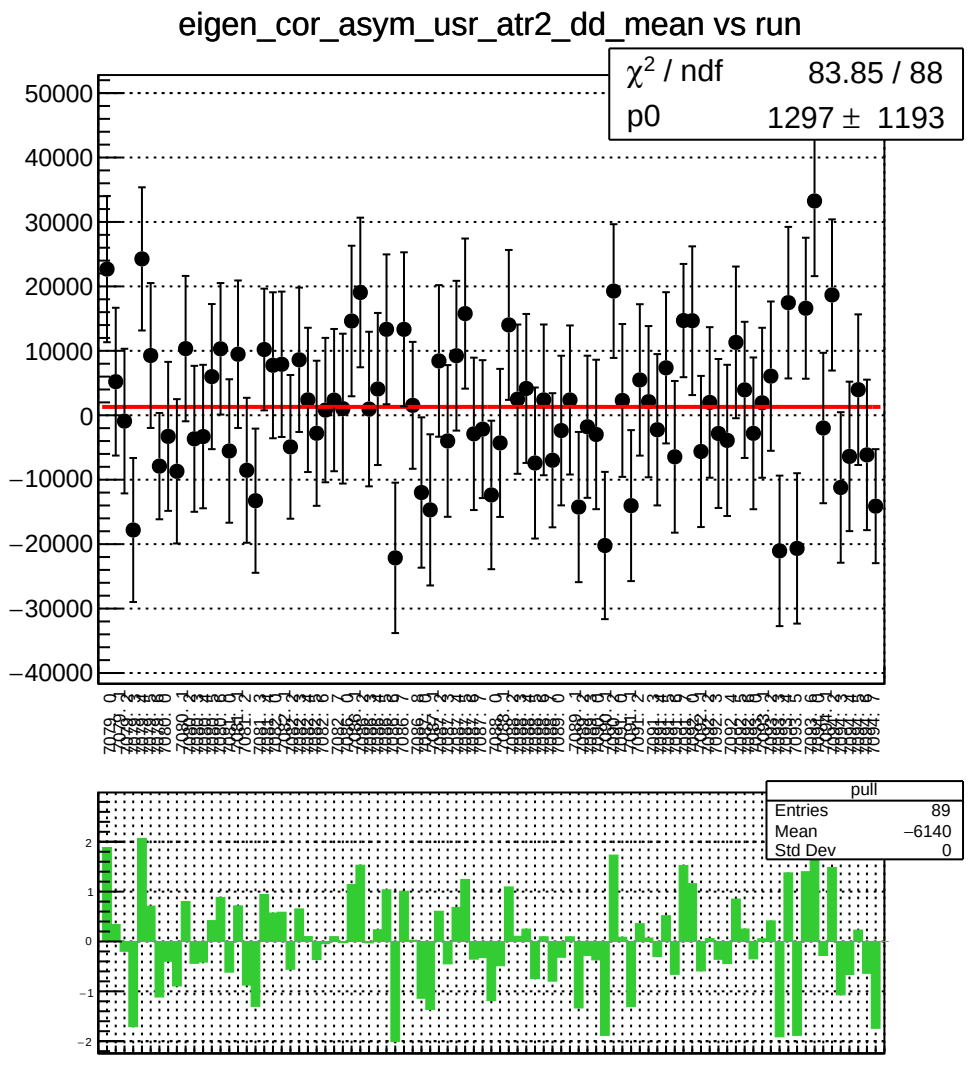

pull1D
Entries 89
Mean 0.000258
Std Dev 0.9706

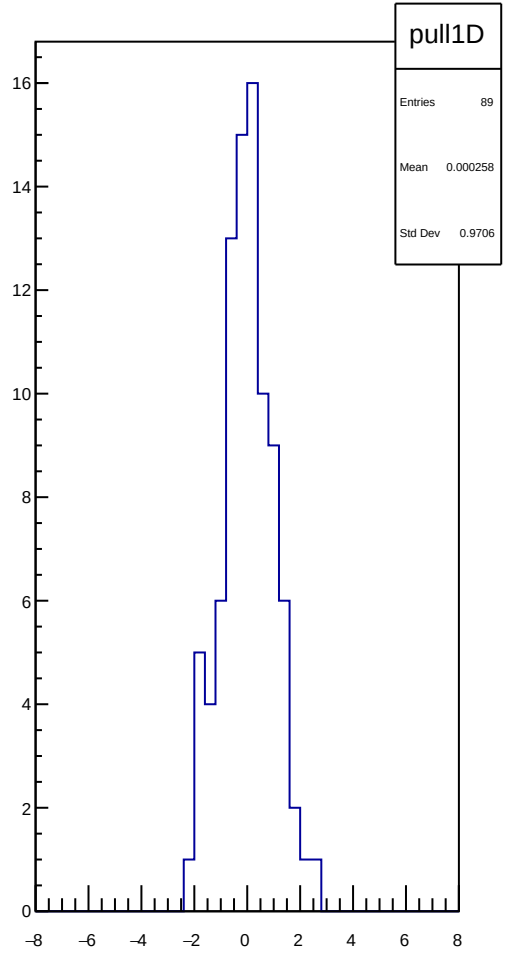

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 649.5 / 88
p0 1095 ± 0.8437
1140
1120
1100
1080
1060
1040

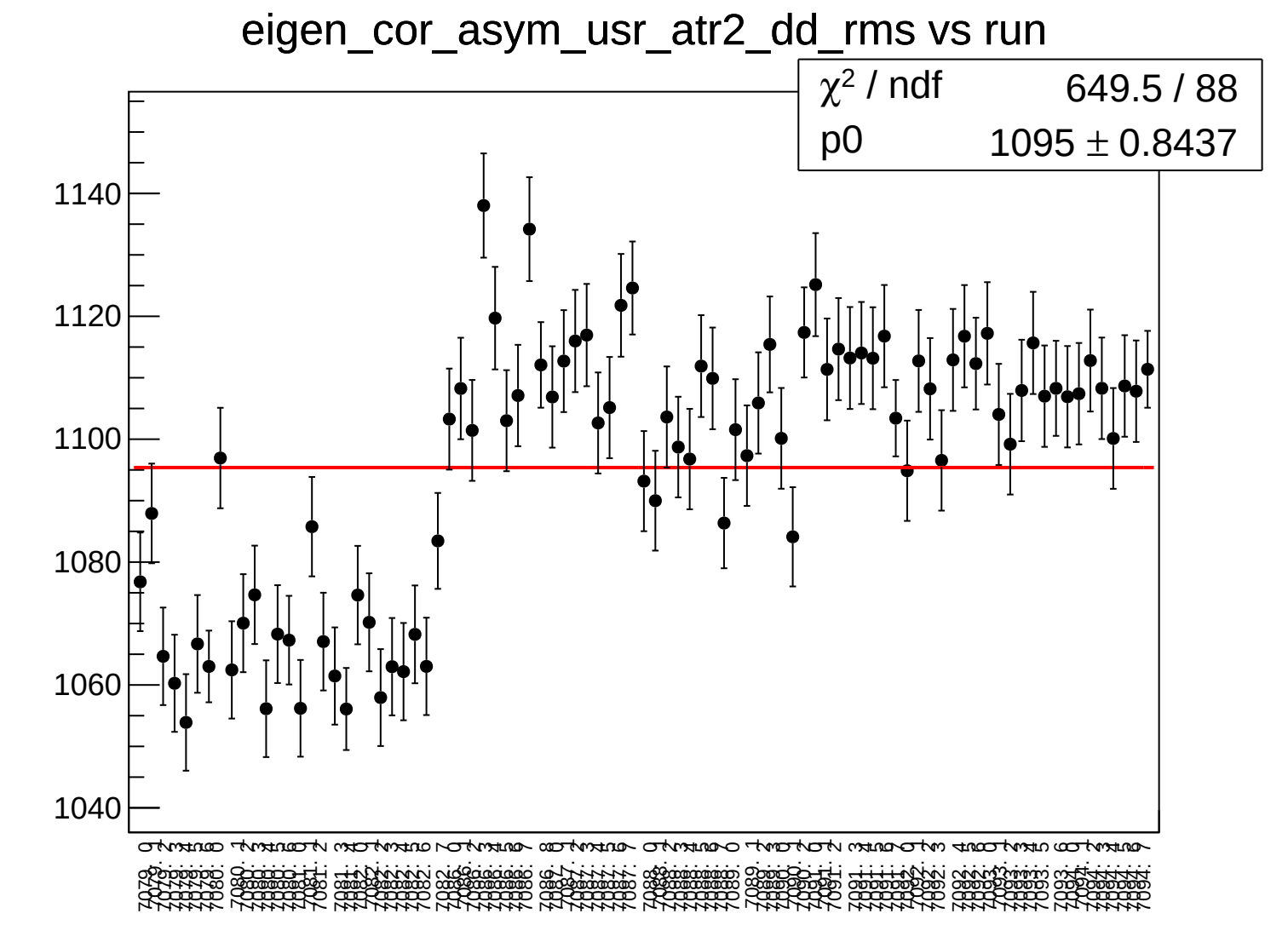

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 67.75 / 88
p0 726.5 ± 4817
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −363.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

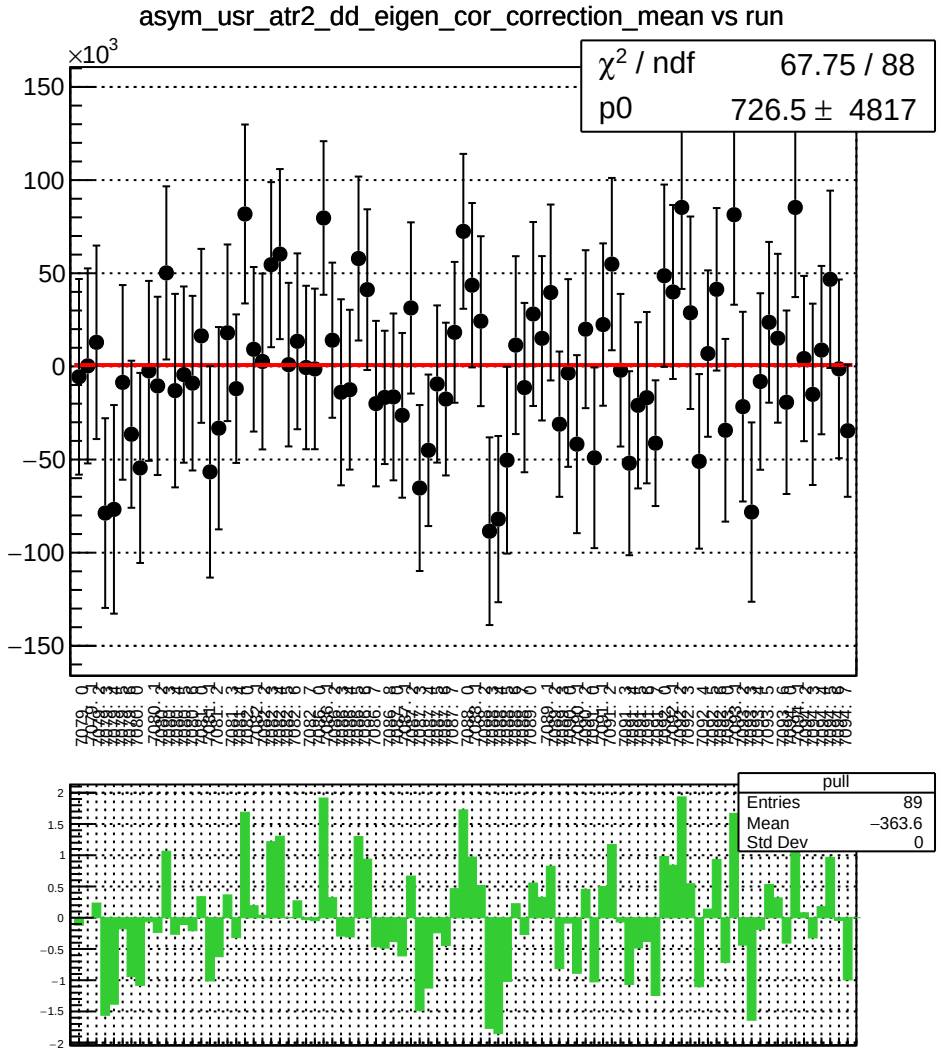

pull1D
Entries 89
Mean −0.004375
Std Dev 0.8725
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

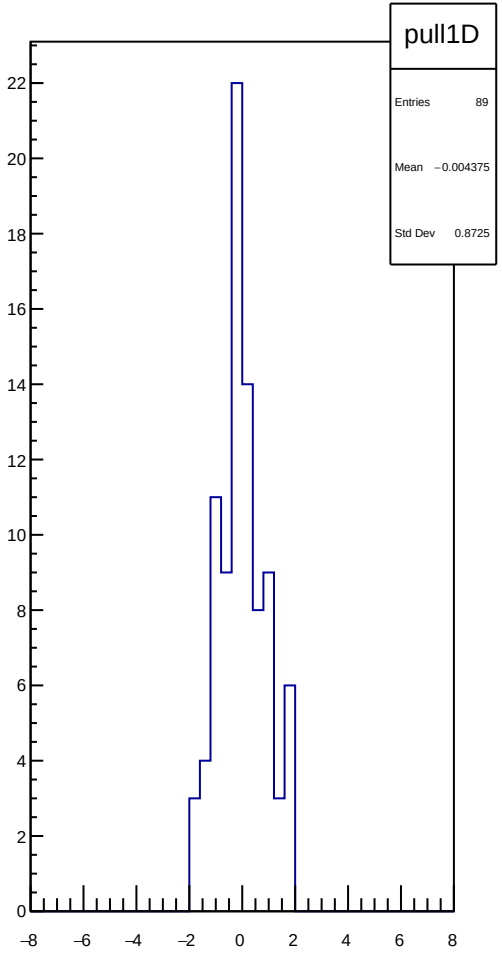

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 9173 / 88
p0 4411 ± 3.406
5400
5200
5000
4800
4600
4400
4200
4000
3800

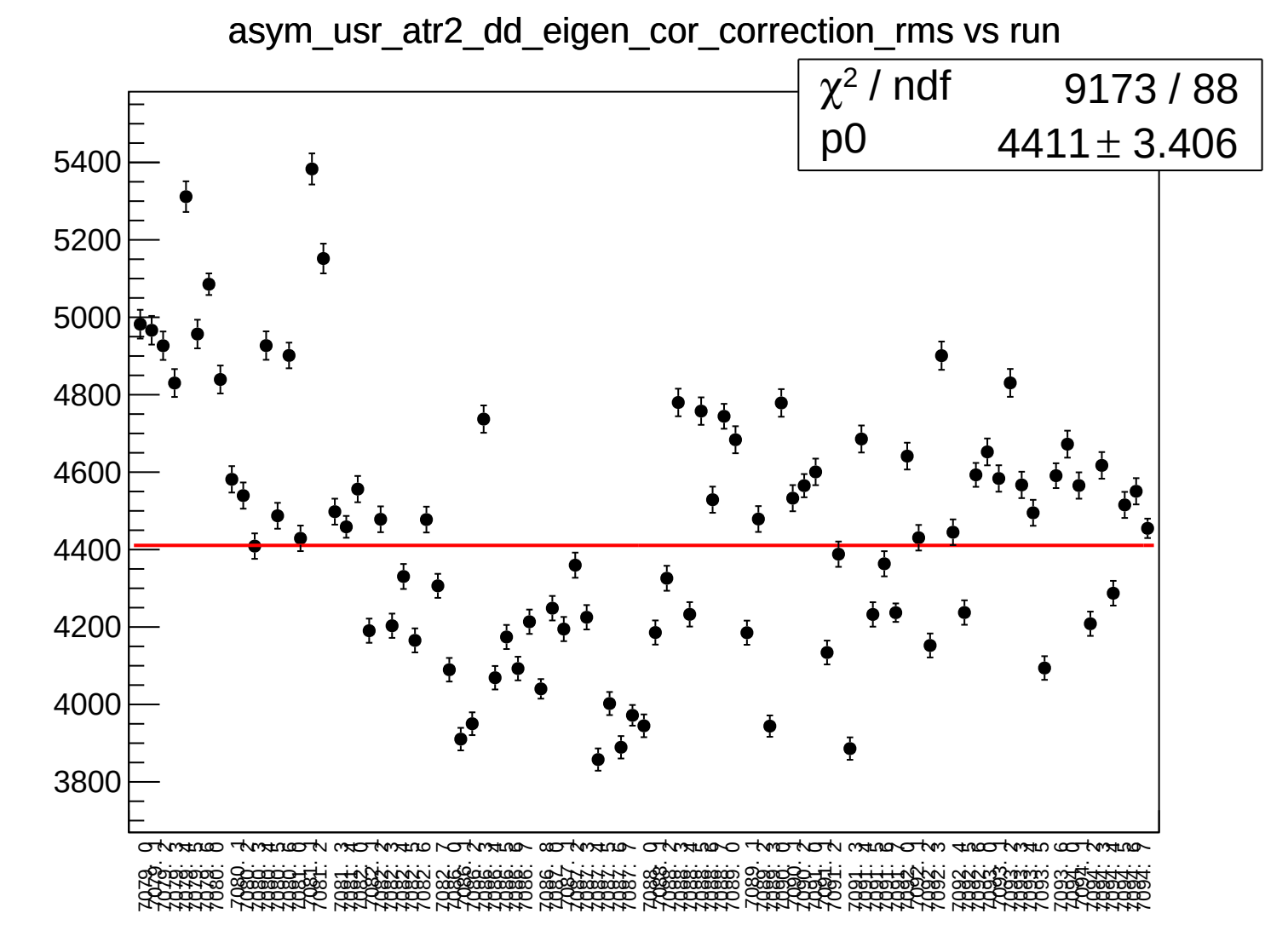

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 83.85 / 88
p0 1297 ± 1193
pull
Entries 89
Mean −6140
Std Dev 0

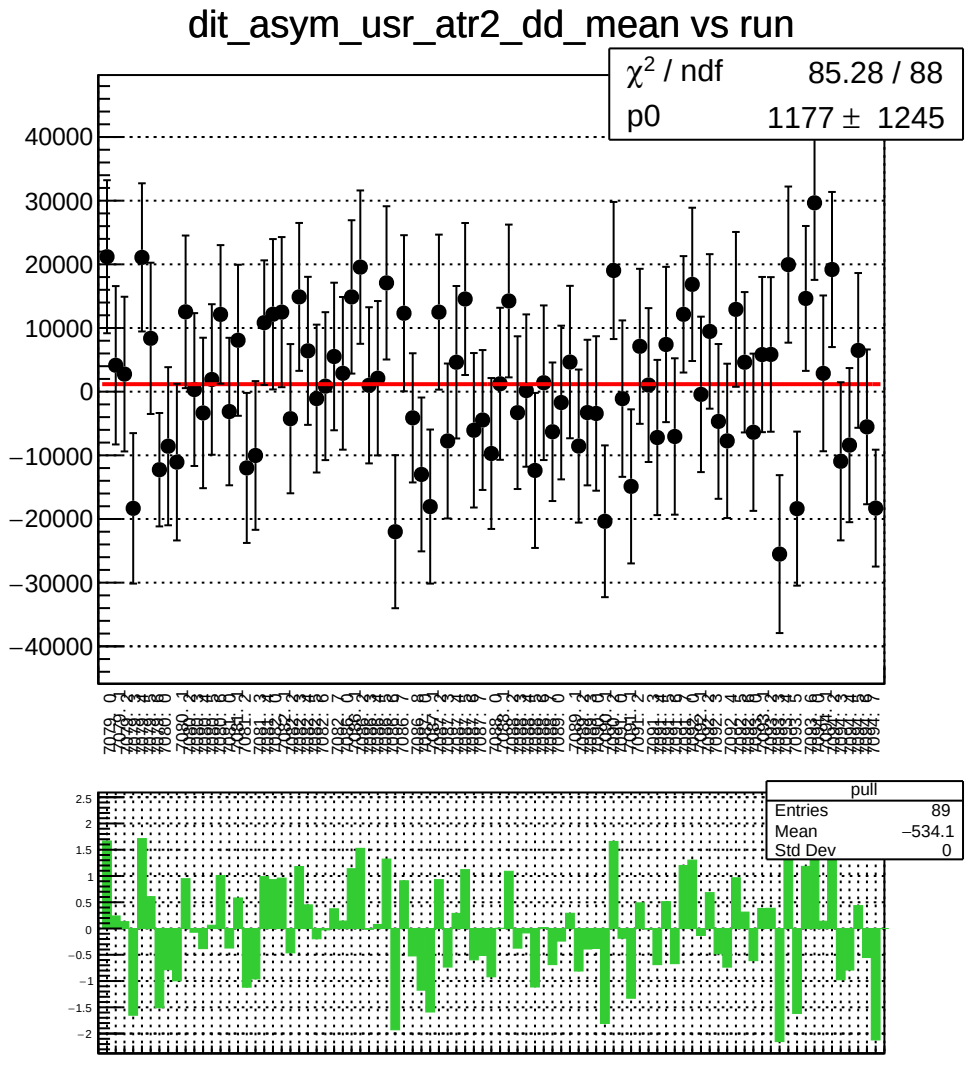

pull1D
Entries 89
Mean 0.000258
Std Dev 0.9706

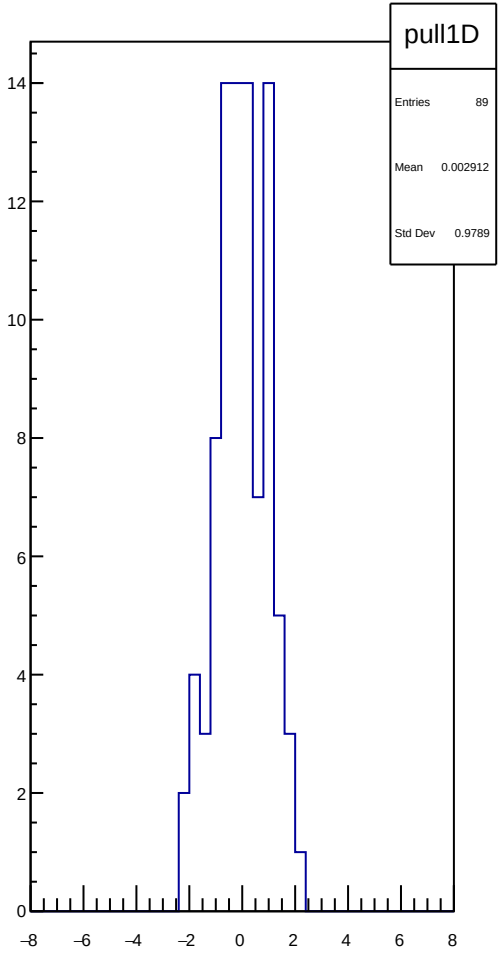

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 649.5 / 88
p0 1095 ± 0.8437
1140
1120
1100
1080
1060
1040

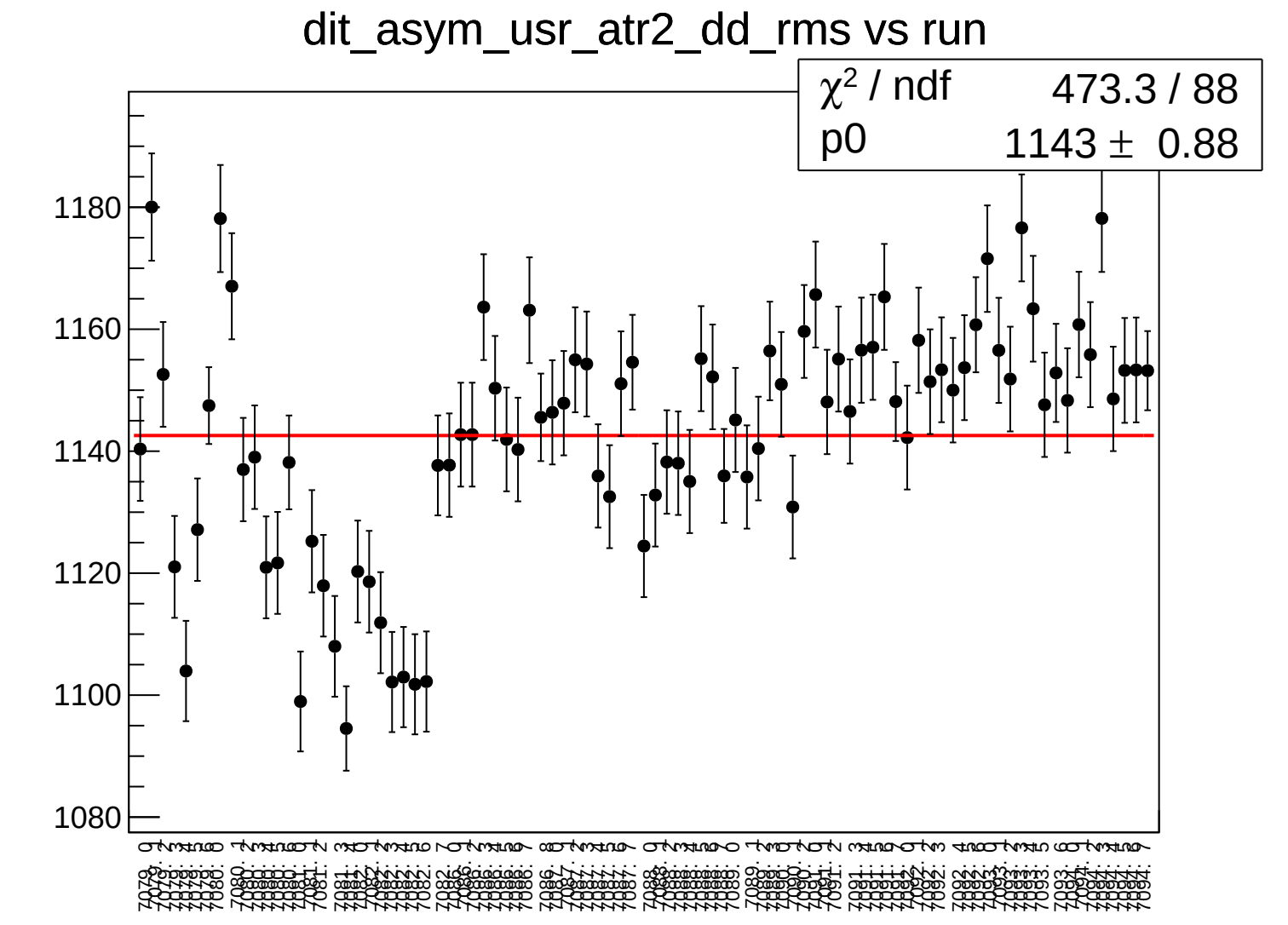

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.75 / 88
p0 726.5 ± 4817
pull
Entries 89
Mean −363.6
Std Dev 0

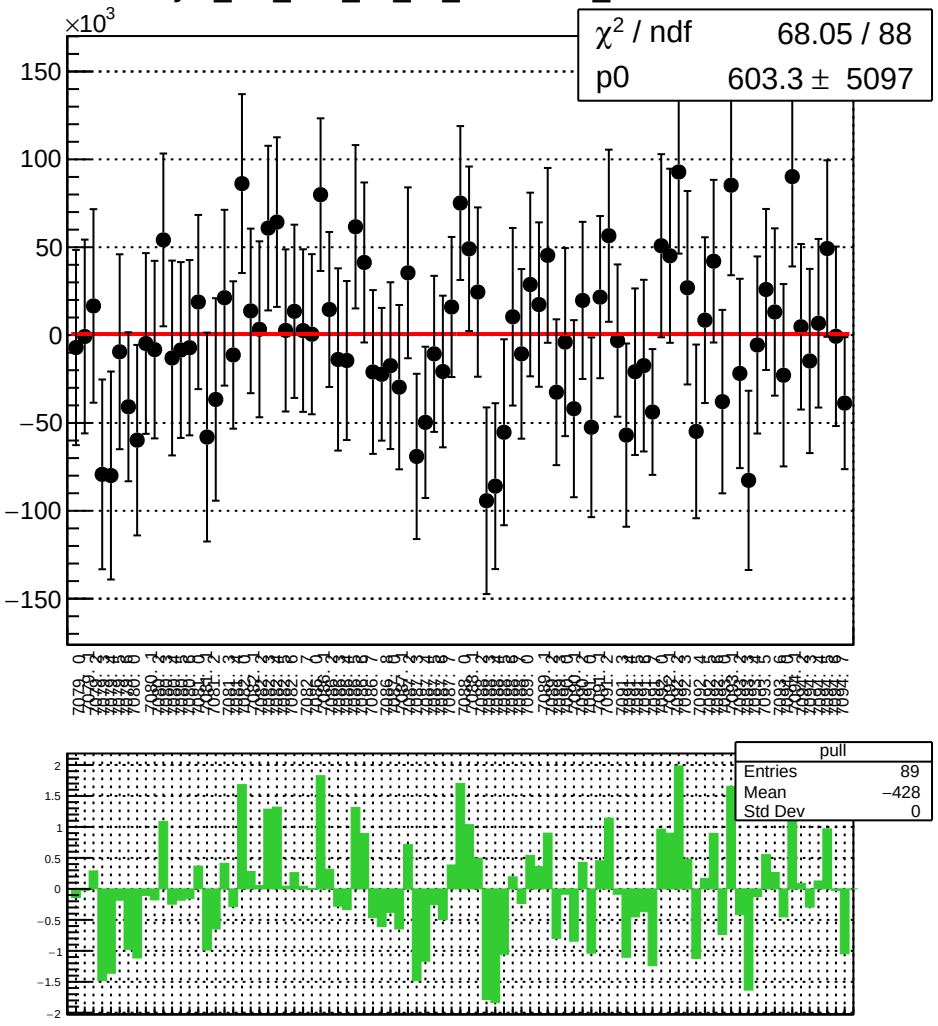

pull1D
Entries 89
Mean −0.004375
Std Dev 0.8725

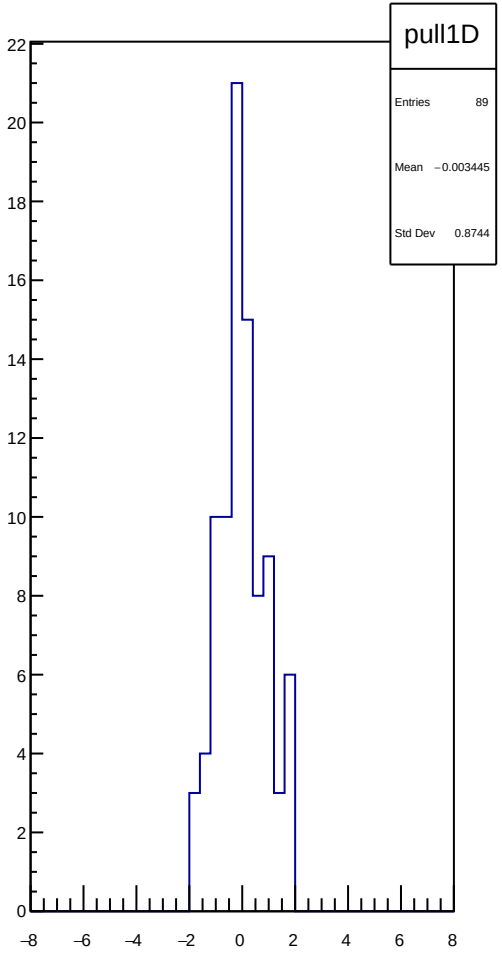

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 9173 / 88
p0 4411 ± 3.406
5400
5200
5000
4800
4600
4400
4200
4000
3800

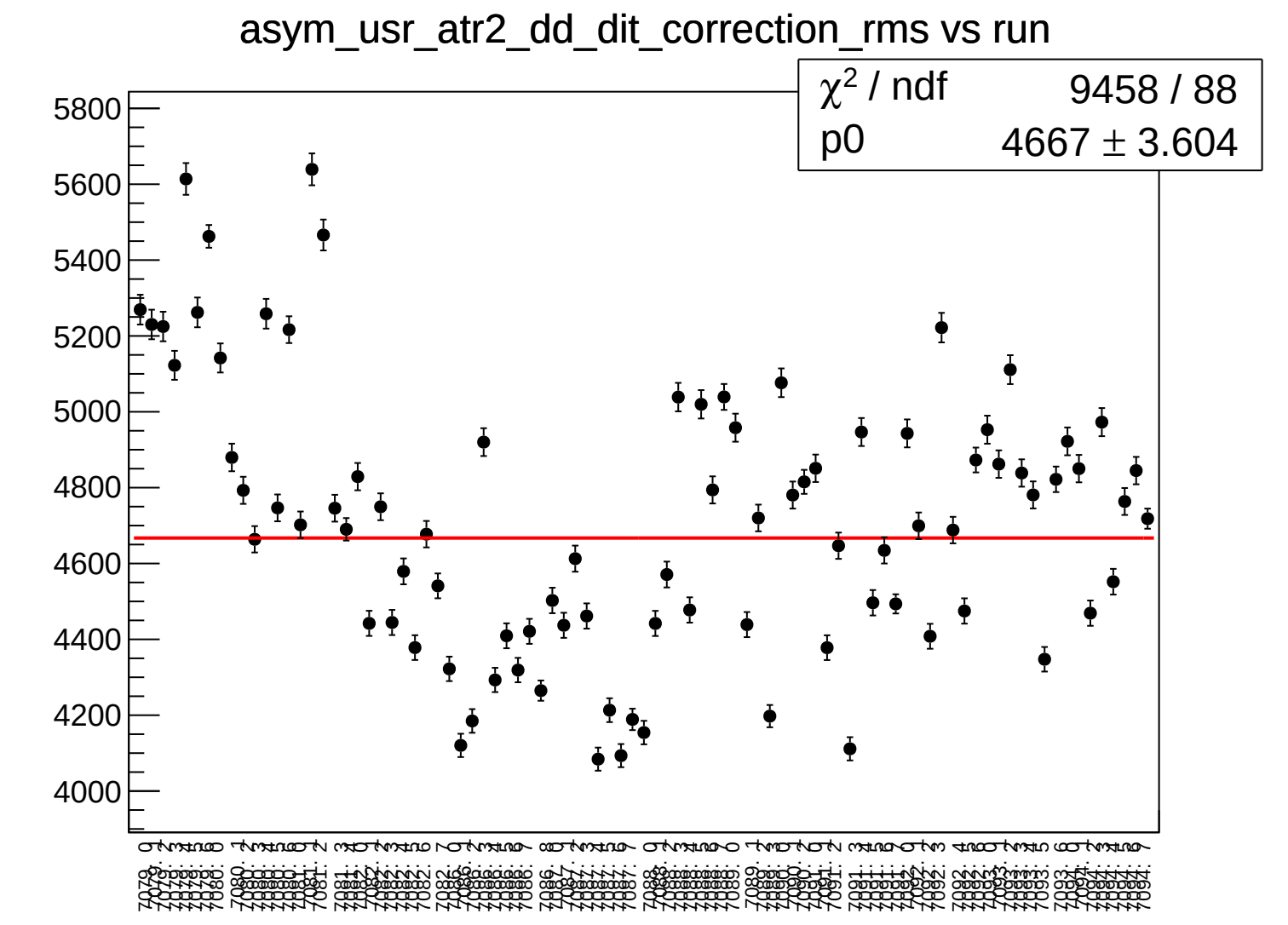

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 85.28 / 88
p0 1177 ± 1245
pull
Entries 89
Mean −534.1
Std Dev 0

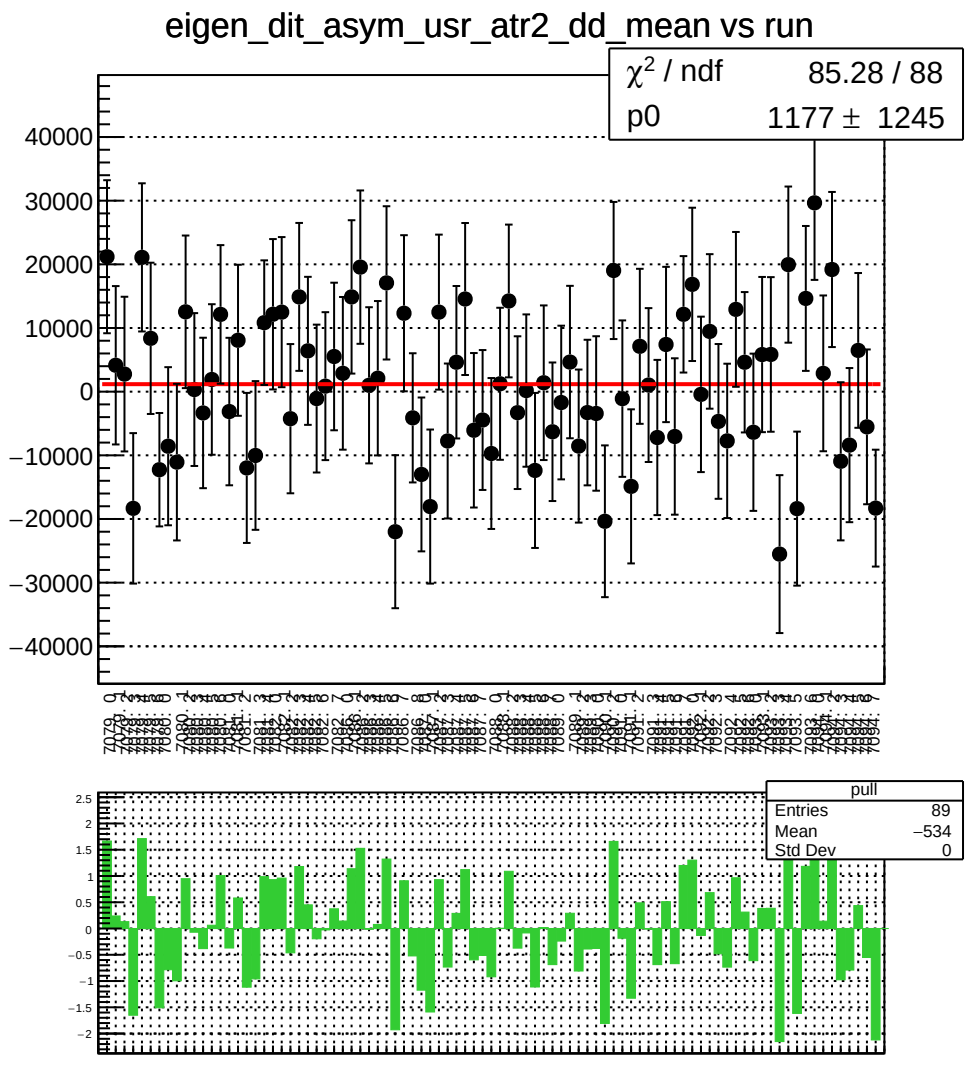

pull1D
Entries 89
Mean 0.002912
Std Dev 0.9789

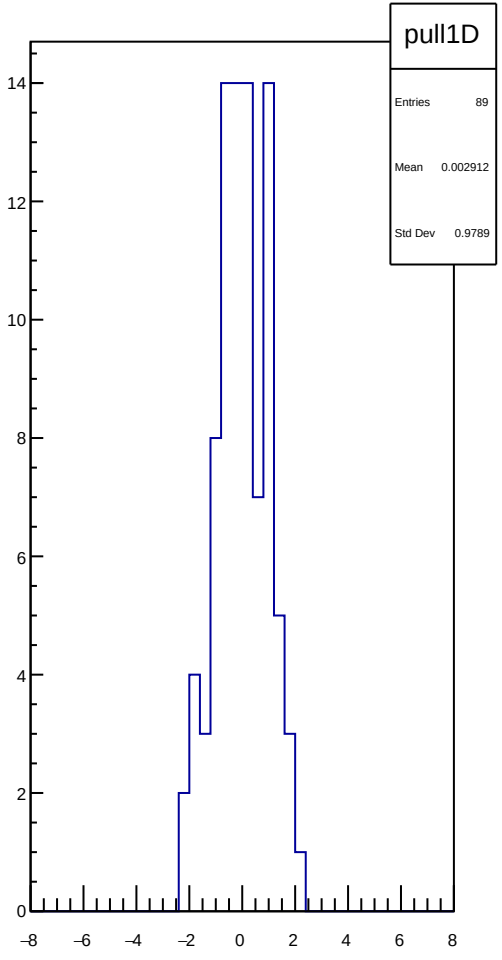

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 473.3 / 88
p0 1143 ± 0.88
1180
1160
1140
1120
1100
1080

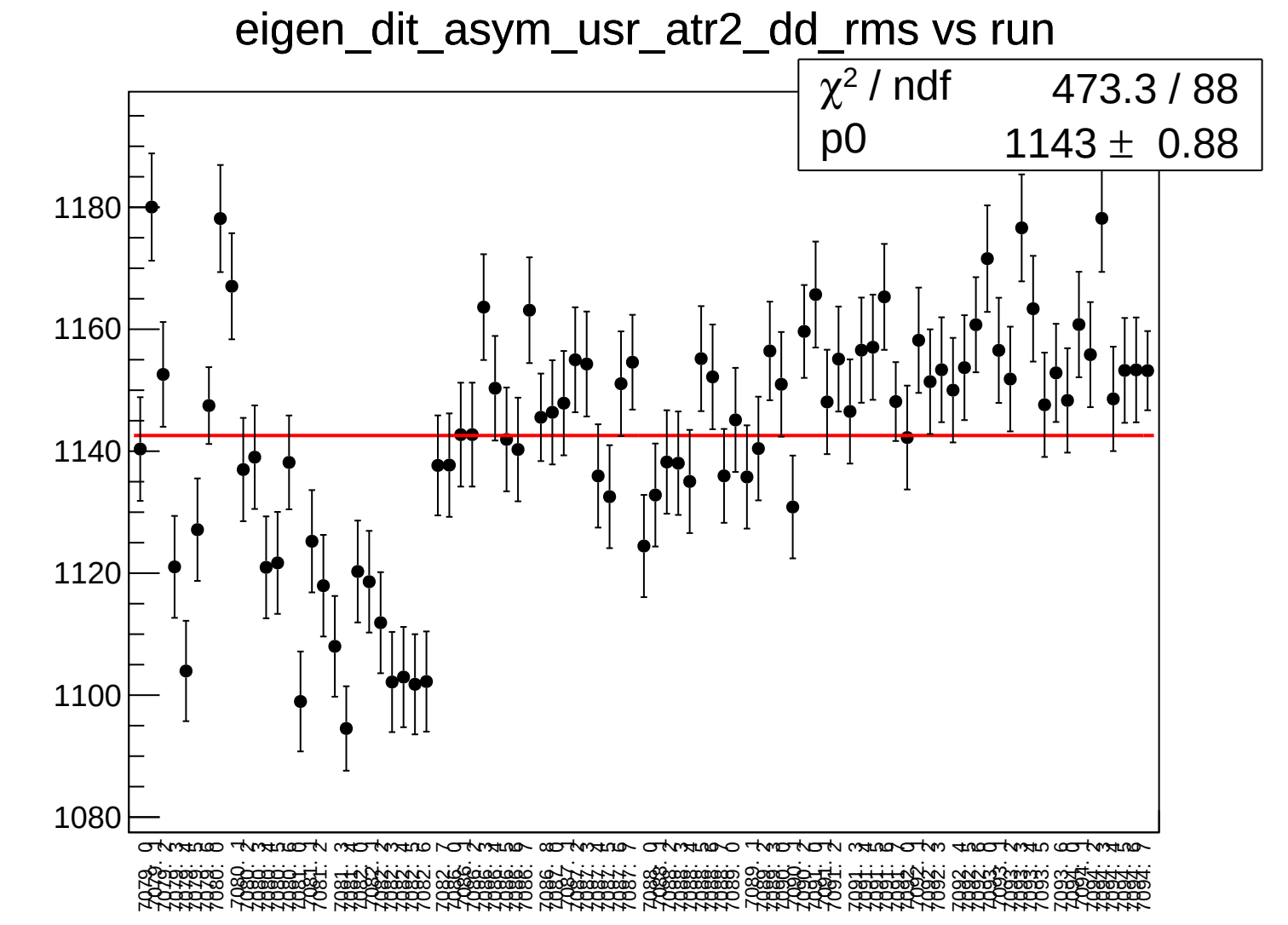

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.05 / 88
p0 603.3 ± 5097
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −428
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

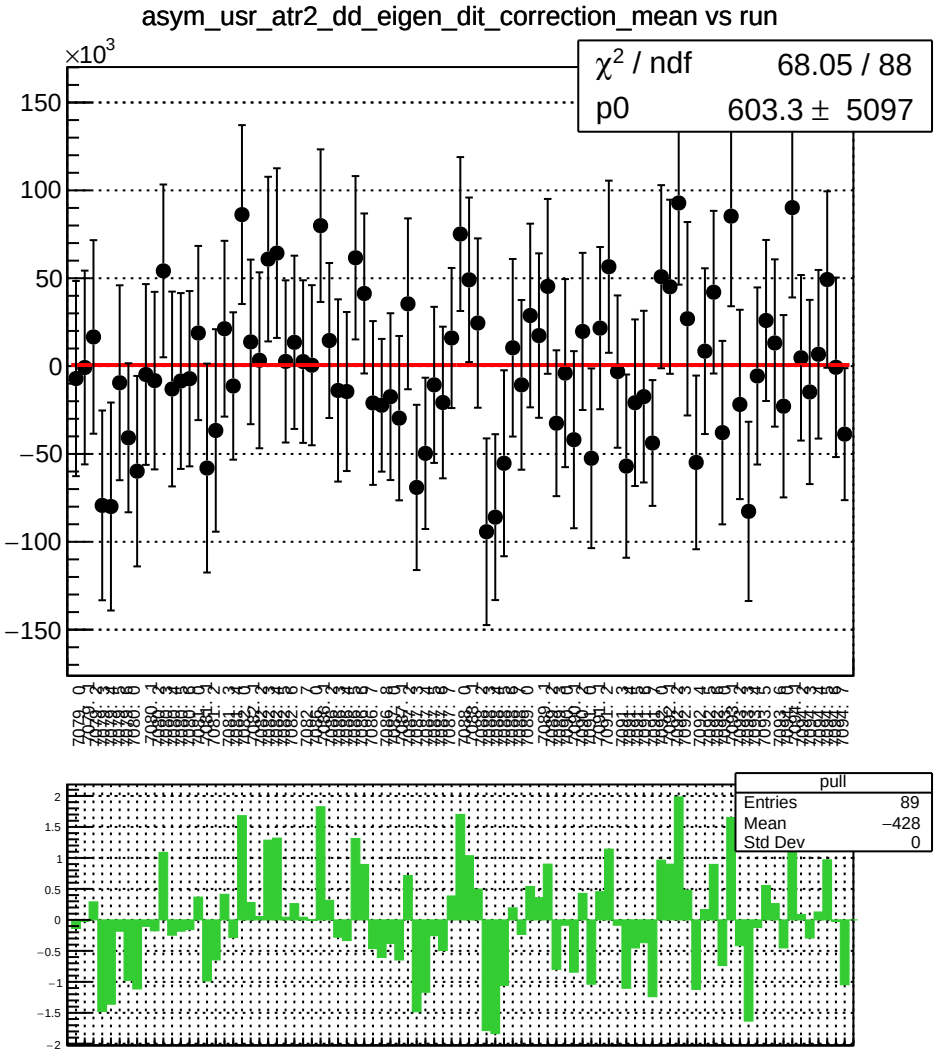

pull1D
Entries 89
Mean −0.003445
Std Dev 0.8744
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

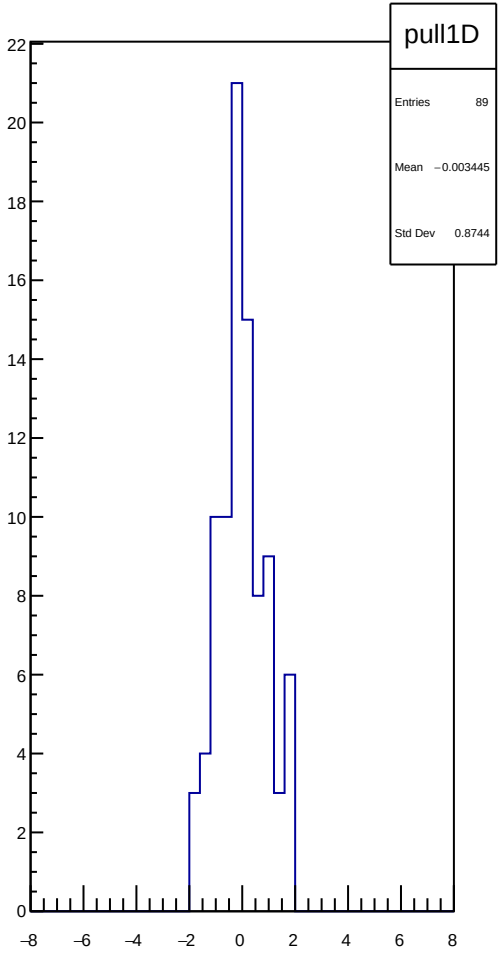

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 9458 / 88
p0 4667 ± 3.604
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

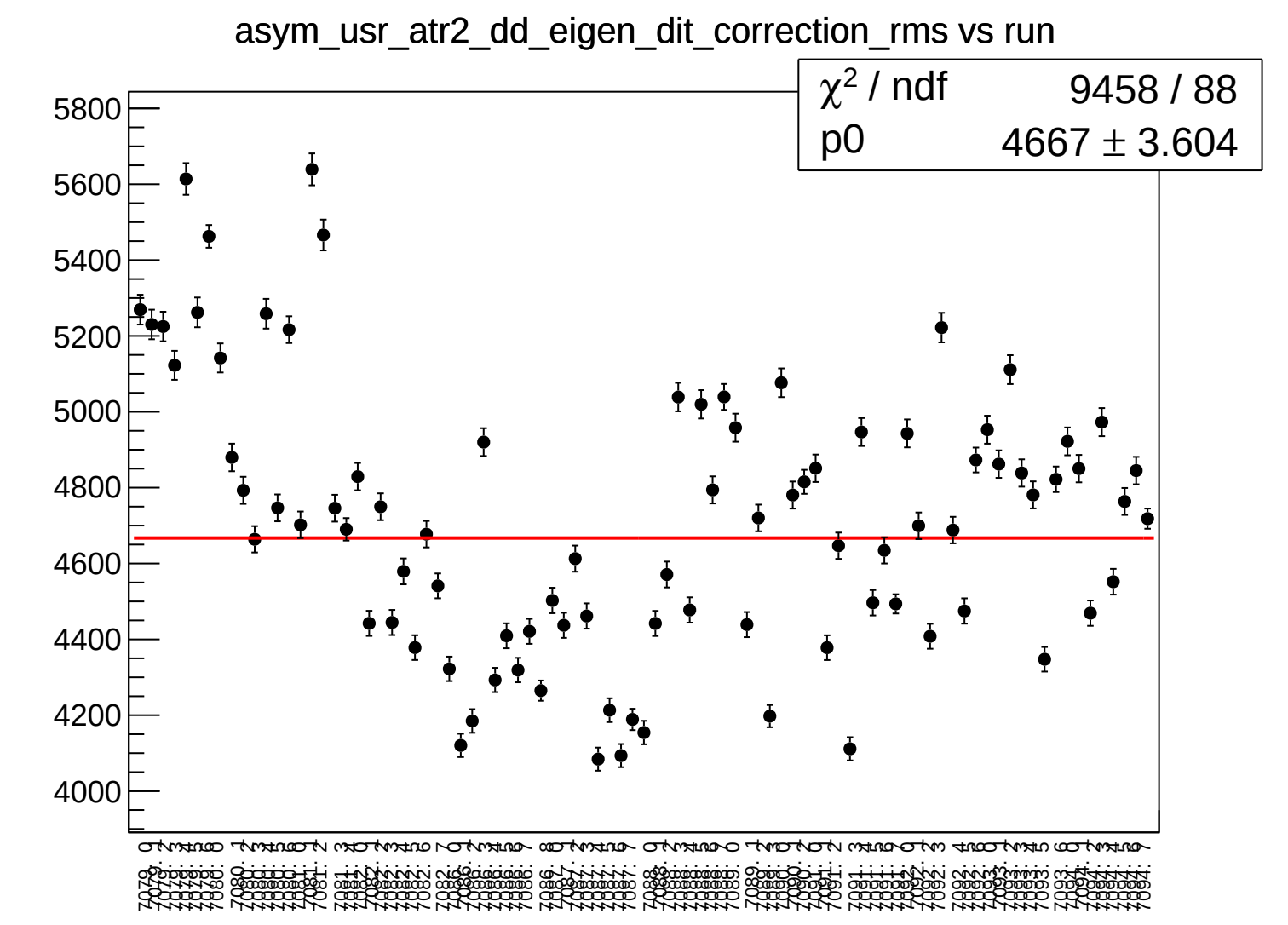

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 85.28 / 88
p0 1177 ± 1245
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −534
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

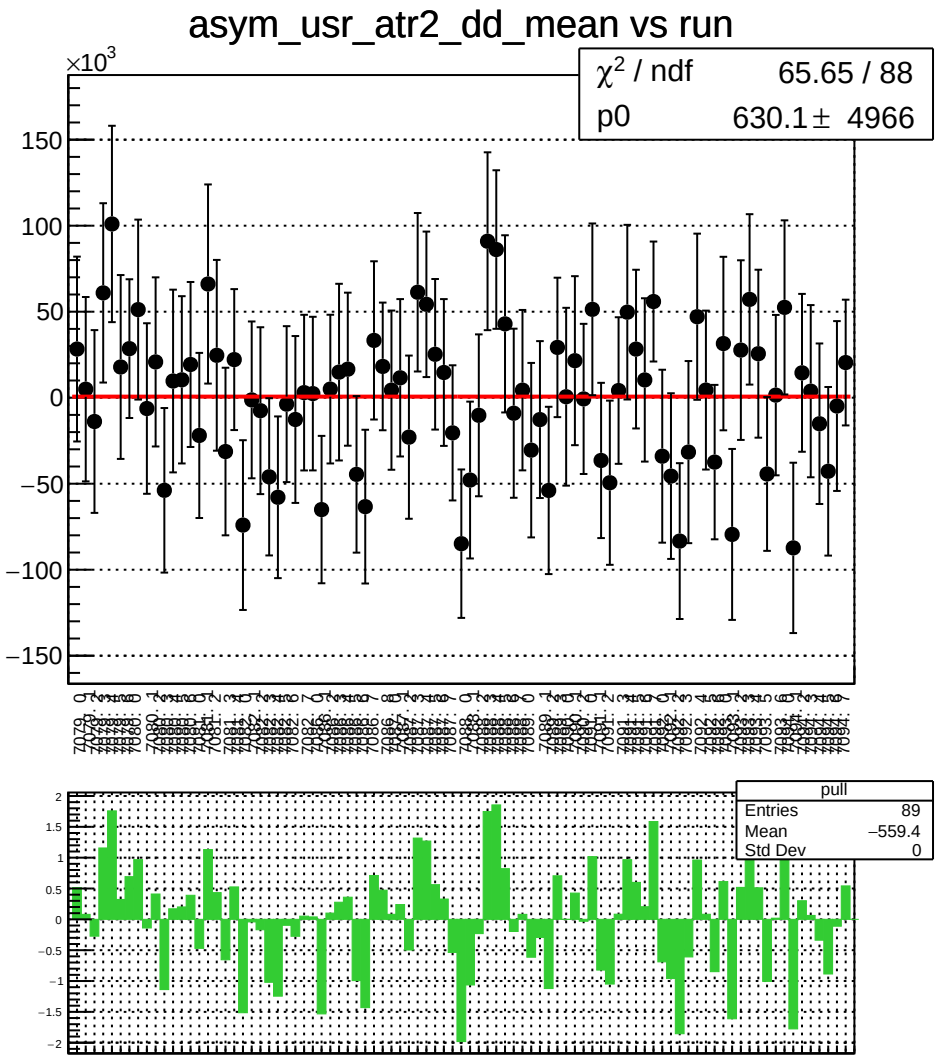

pull1D
Entries 89
Mean 0.002912
Std Dev 0.9789
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

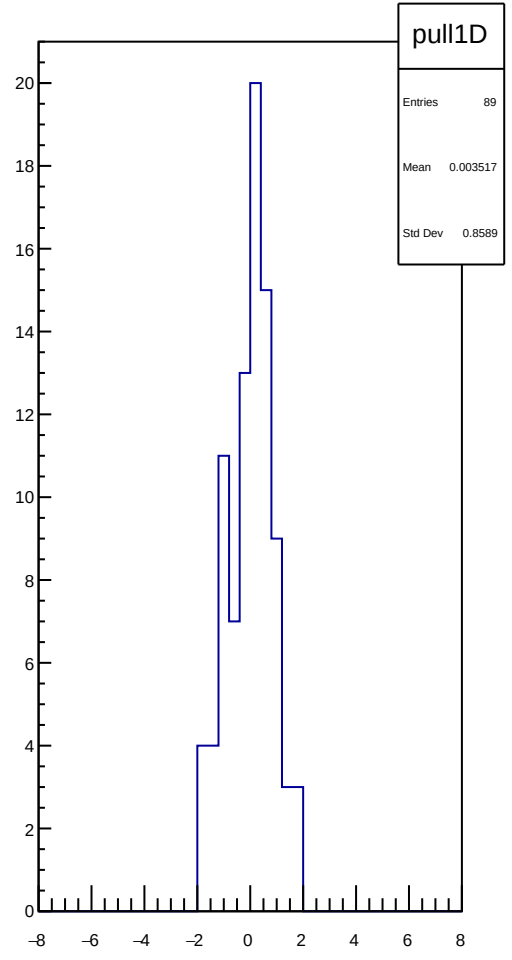

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 473.3 / 88
p0 1143 ± 0.88
1180
1160
1140
1120
1100
1080

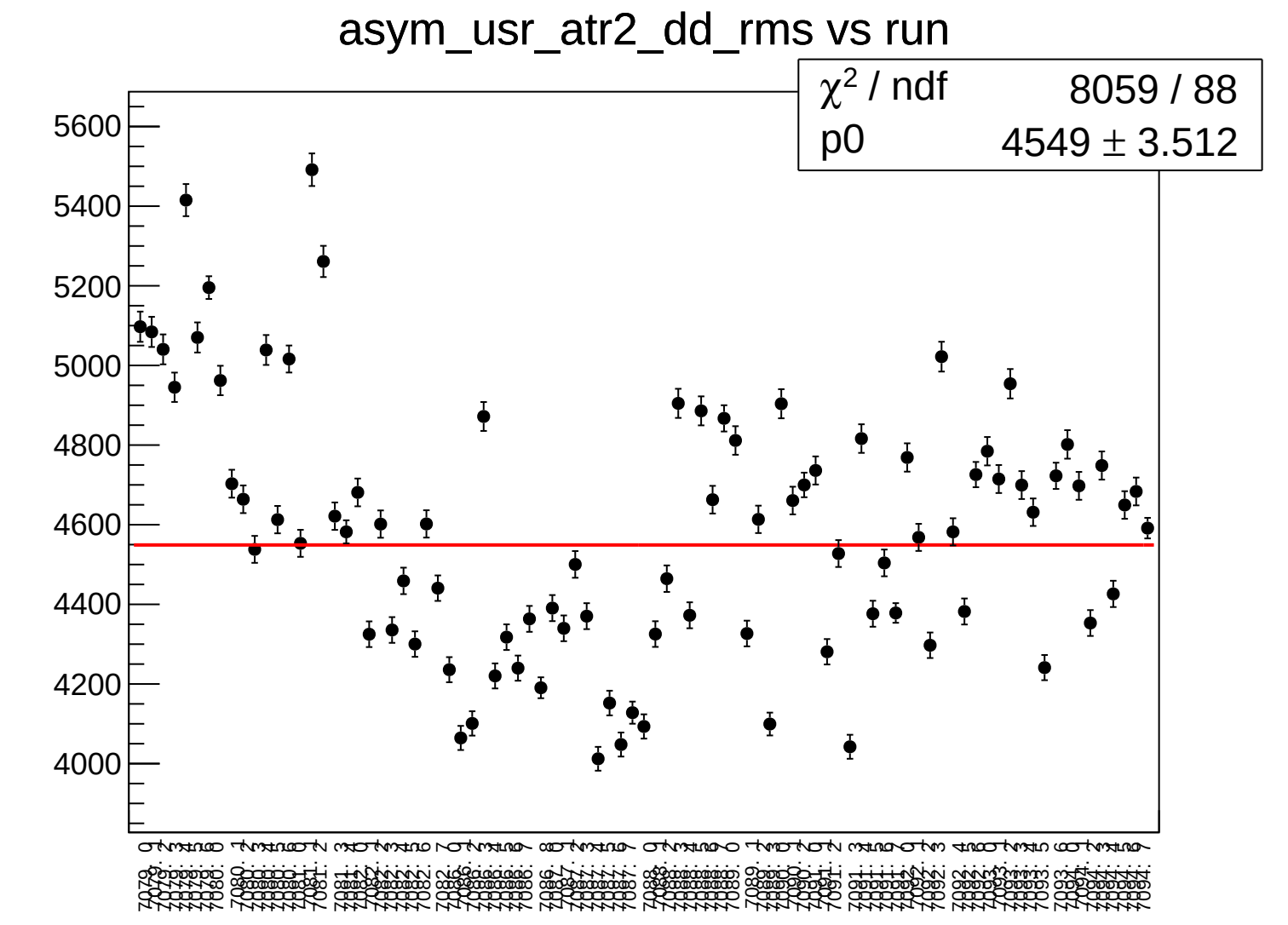

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.05 / 88
p0 603.3 ± 5097
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −428
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

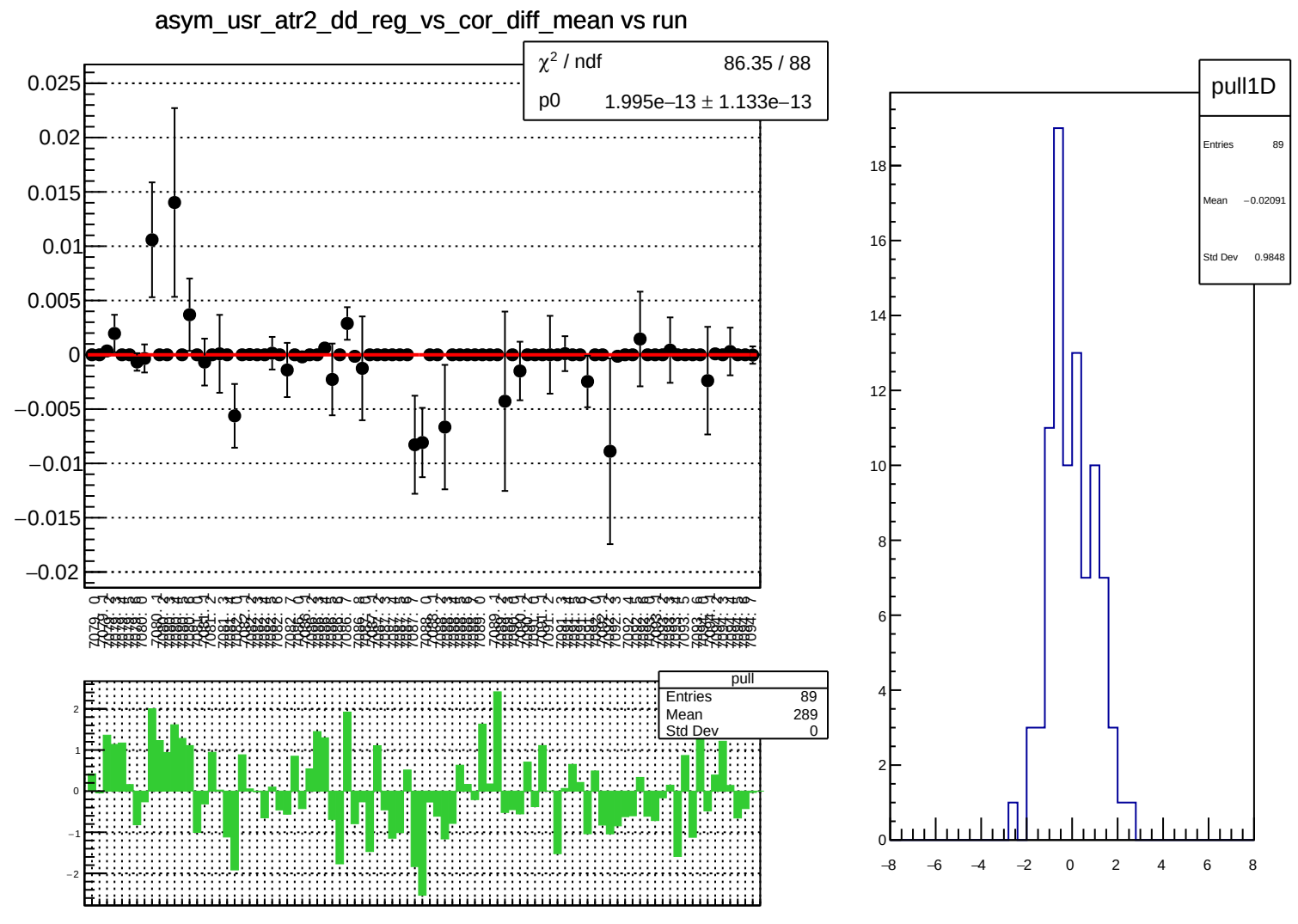

pull1D
Entries 89
Mean −0.003445
Std Dev 0.8744
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

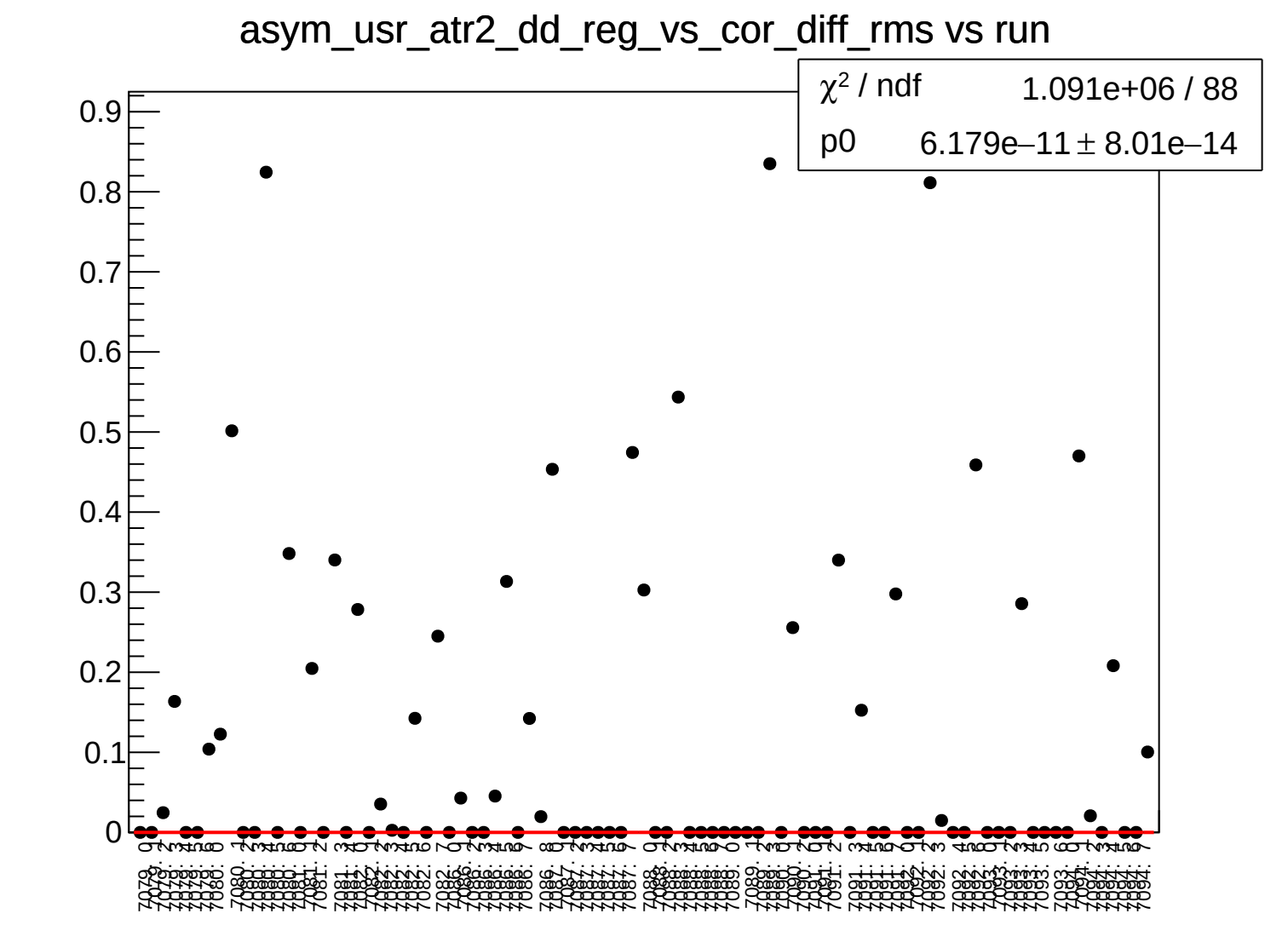

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 9458 / 88
p0 4667 ± 3.604
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

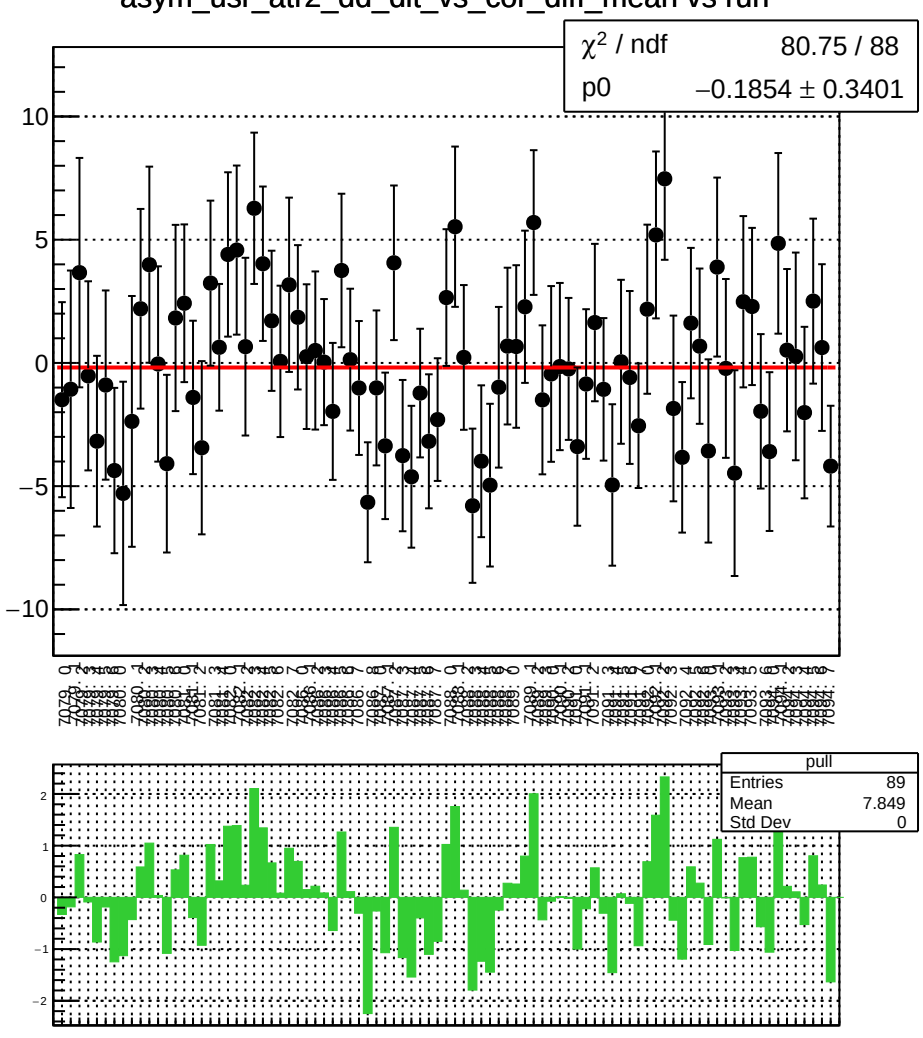

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 65.65 / 88
p0 630.1 ± 4966
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −559.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

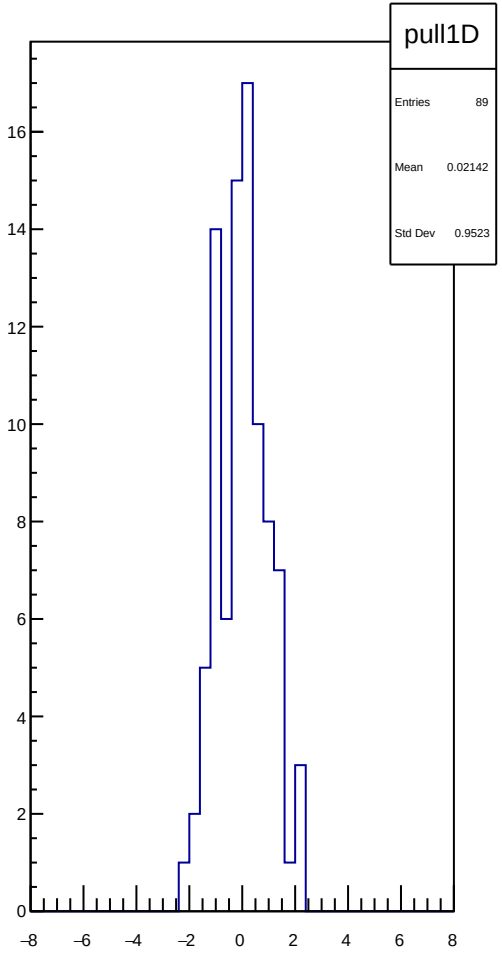

pull1D
Entries 89
Mean 0.003517
Std Dev 0.8589
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

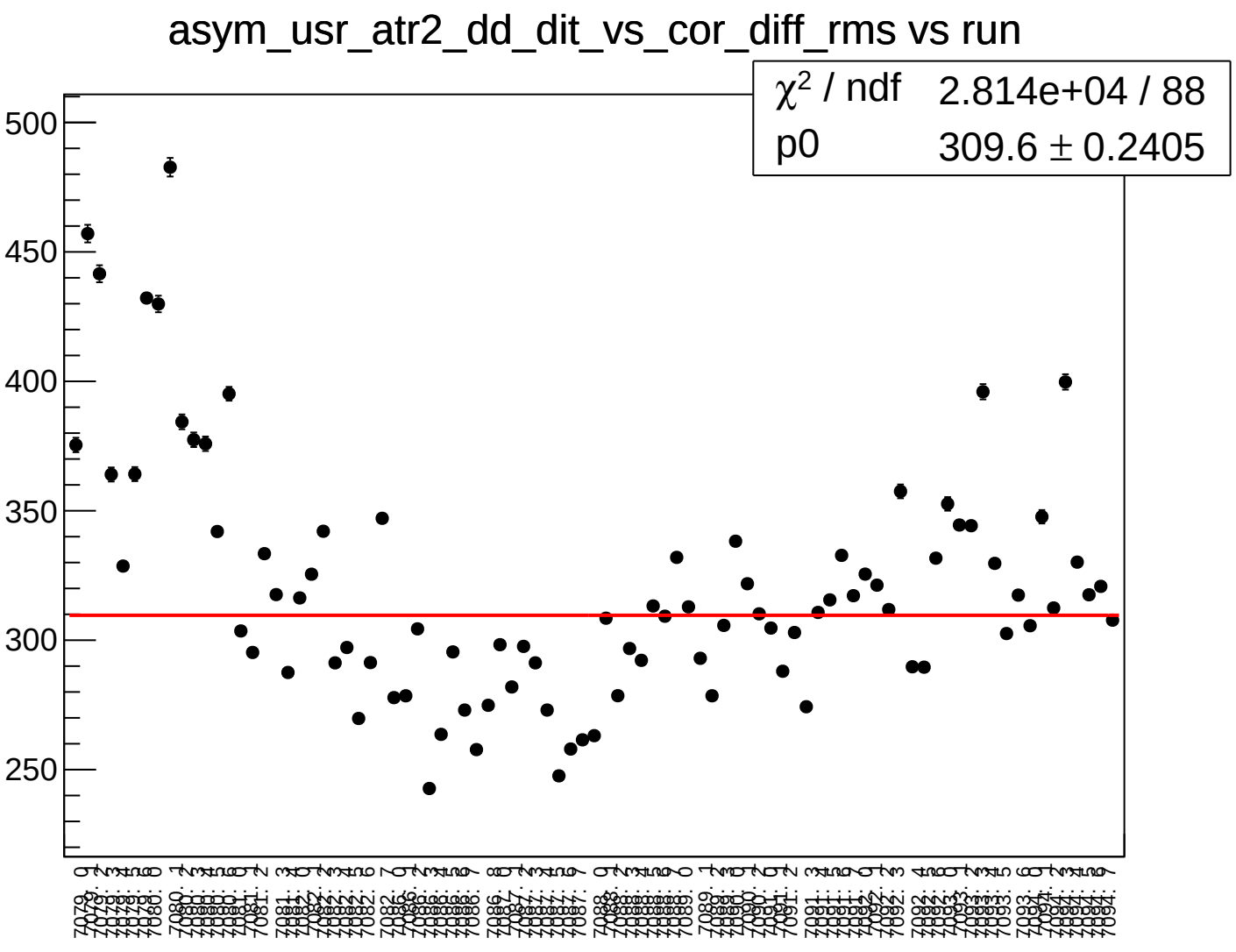

asym_usr_atr2_dd_rms vs run
χ² / ndf 8059 / 88
p0 4549 ± 3.512
5600
5400
5200
5000
4800
4600
4400
4200
4000

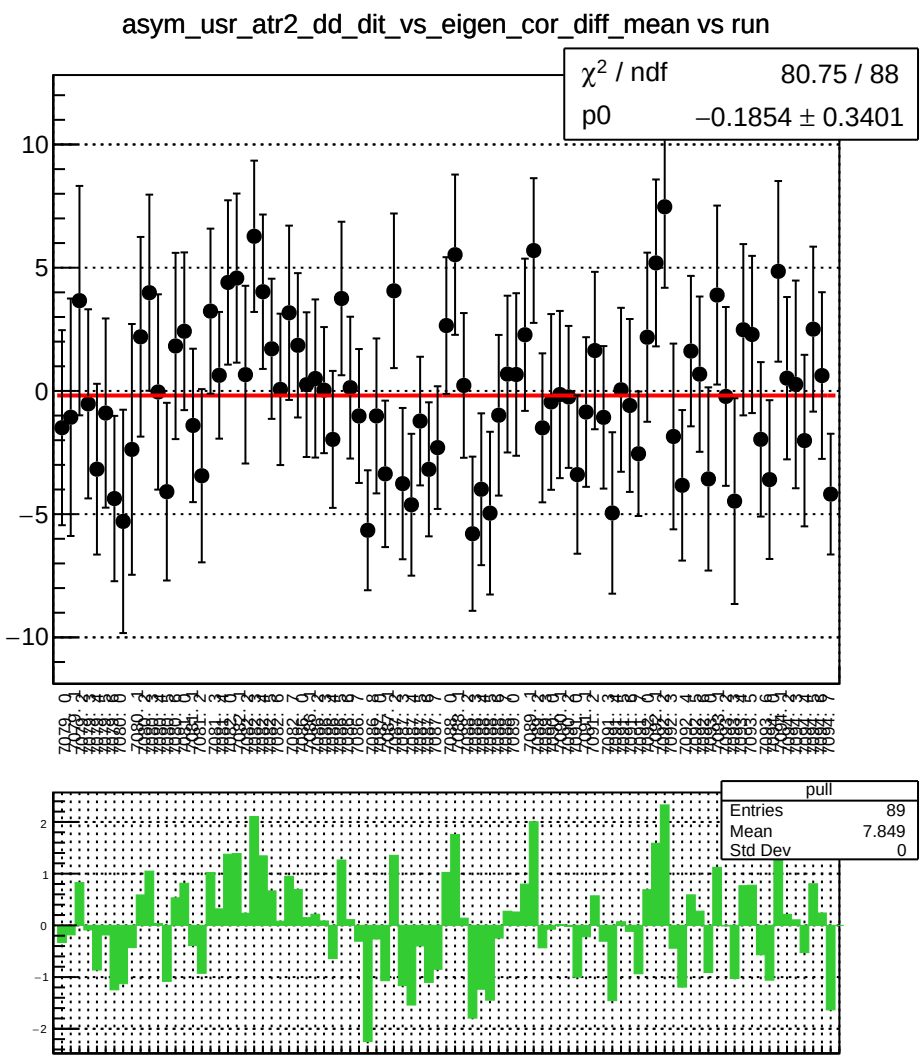

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.35 / 88
p0 1.995e−13 ± 1.133e−13
pull
Entries 89
Mean 289
Std Dev 0
pull1D
Entries 89
Mean −0.02091
Std Dev 0.9848

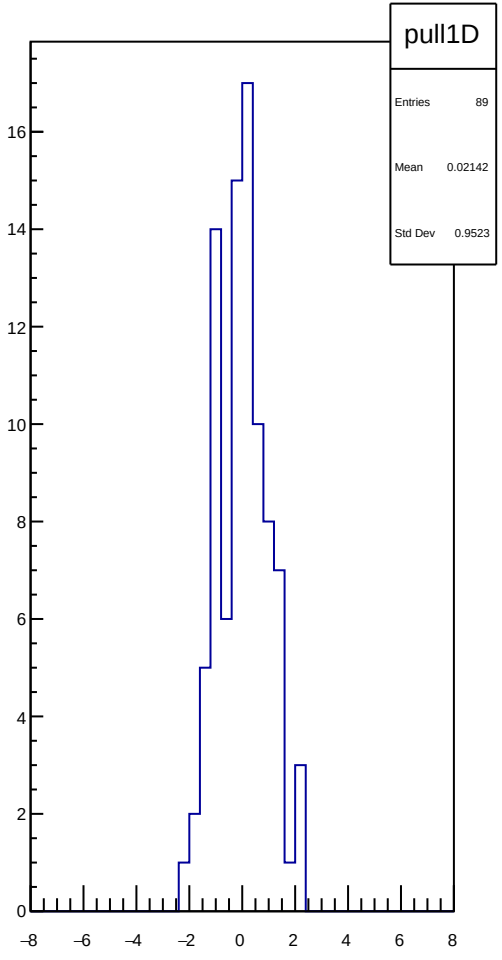

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 88
p0 6.179e−11 ± 8.01e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

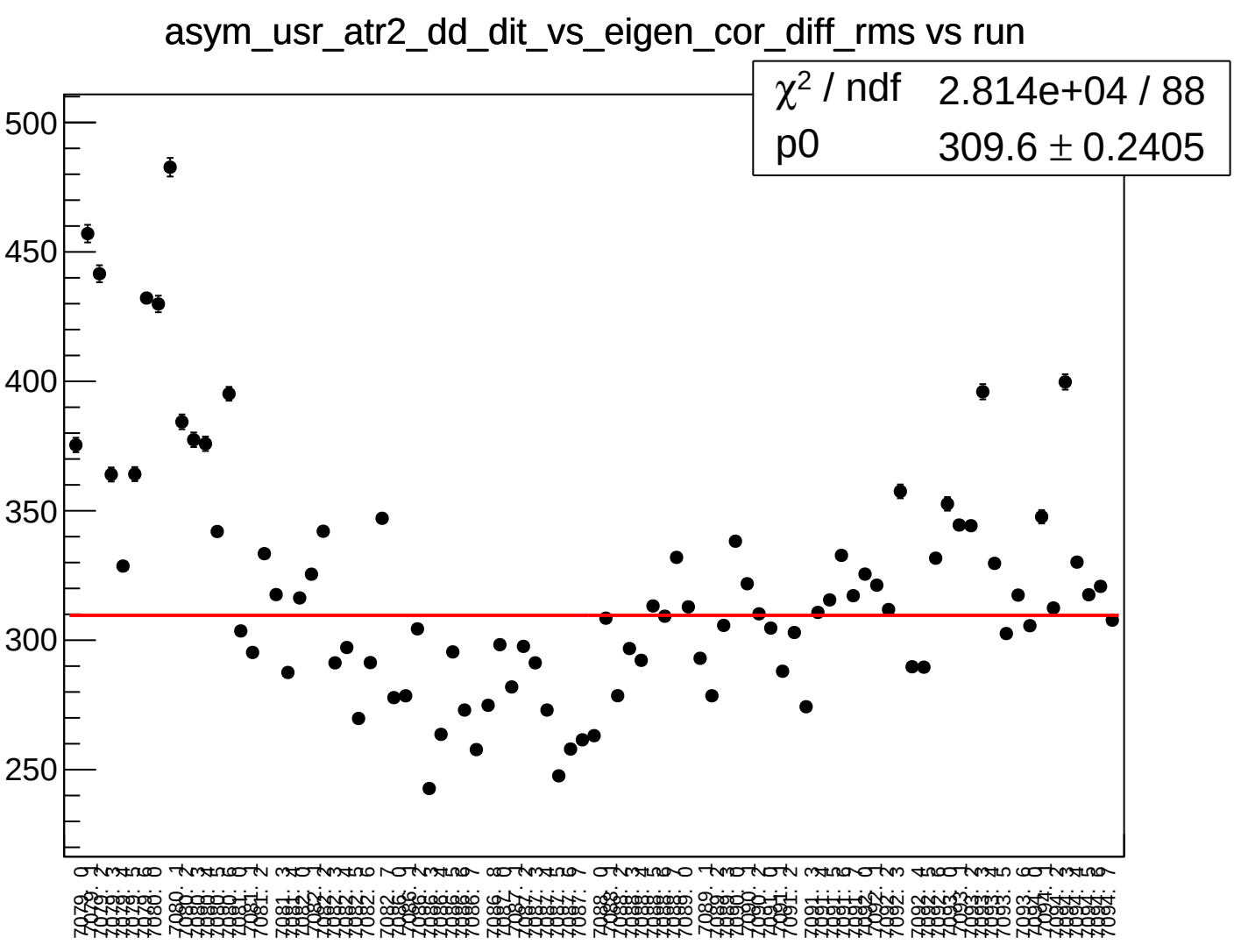

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.75 / 88
p0 −0.1854 ± 0.3401
pull
Entries 89
Mean 7.849
Std Dev 0

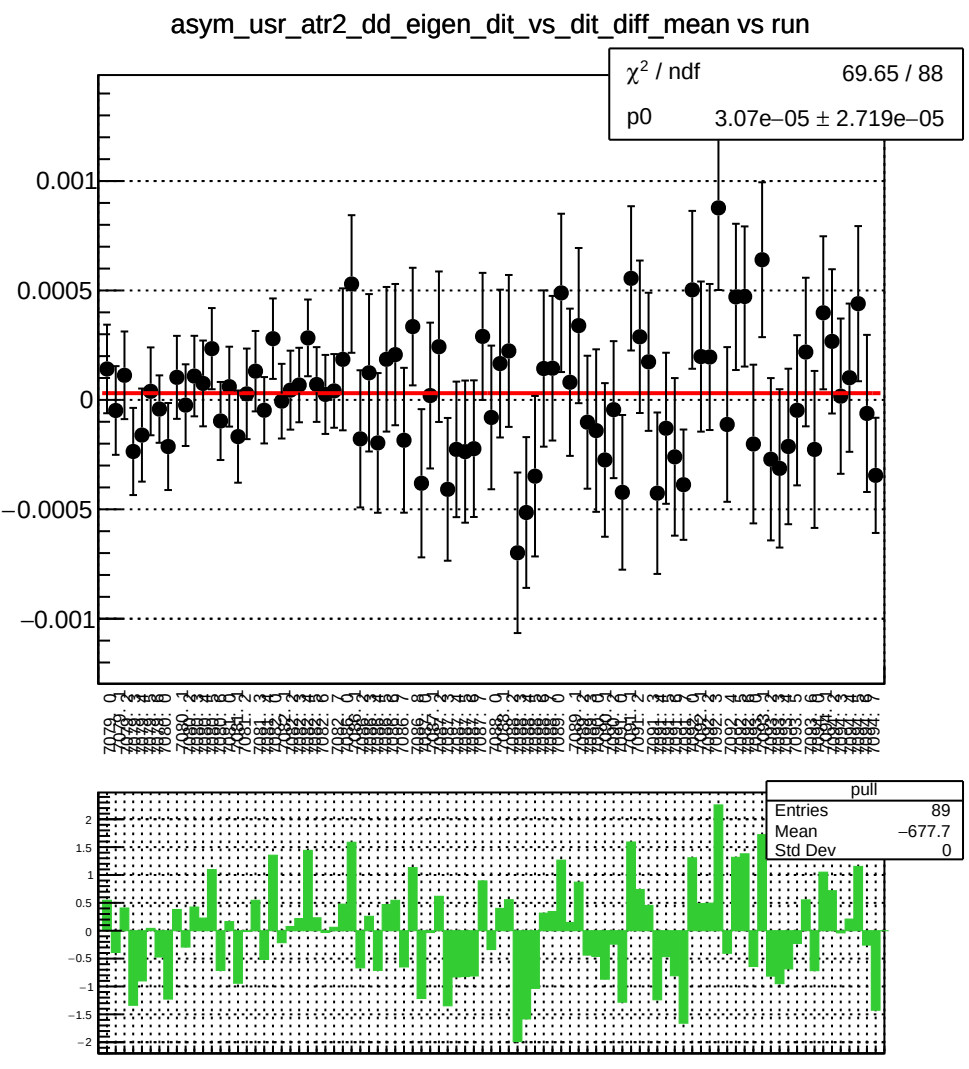

pull1D
Entries 89
Mean 0.02142
Std Dev 0.9523

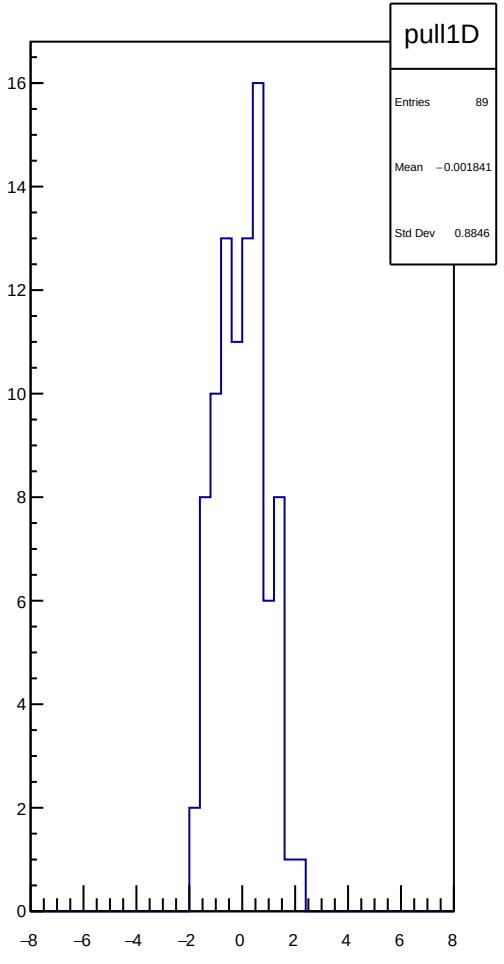

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.814e+04 / 88
p0 309.6 ± 0.2405
500
450
400
350
300
250

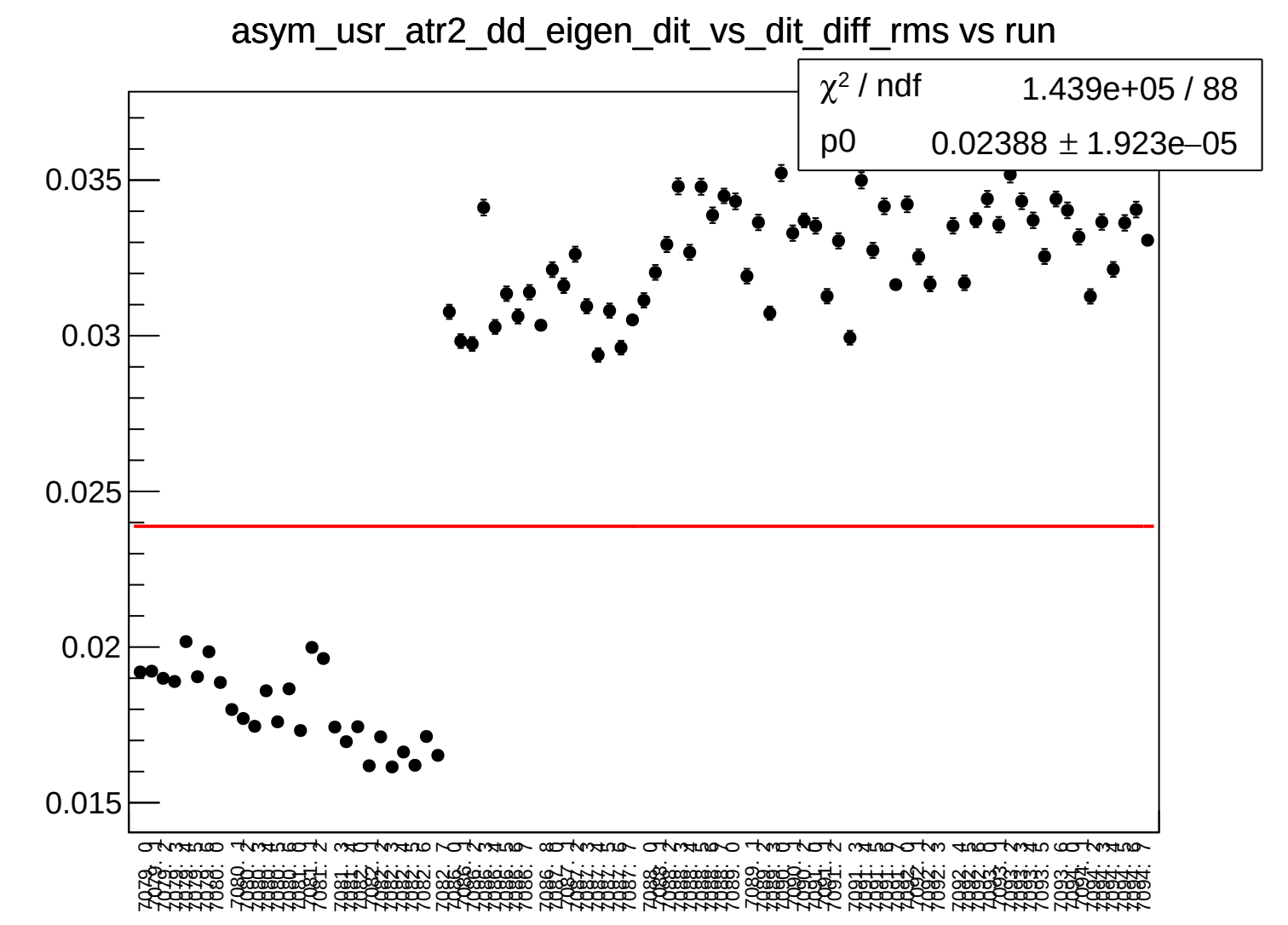

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.75 / 88
p0 −0.1854 ± 0.3401
pull
Entries 89
Mean 7.849
Std Dev 0

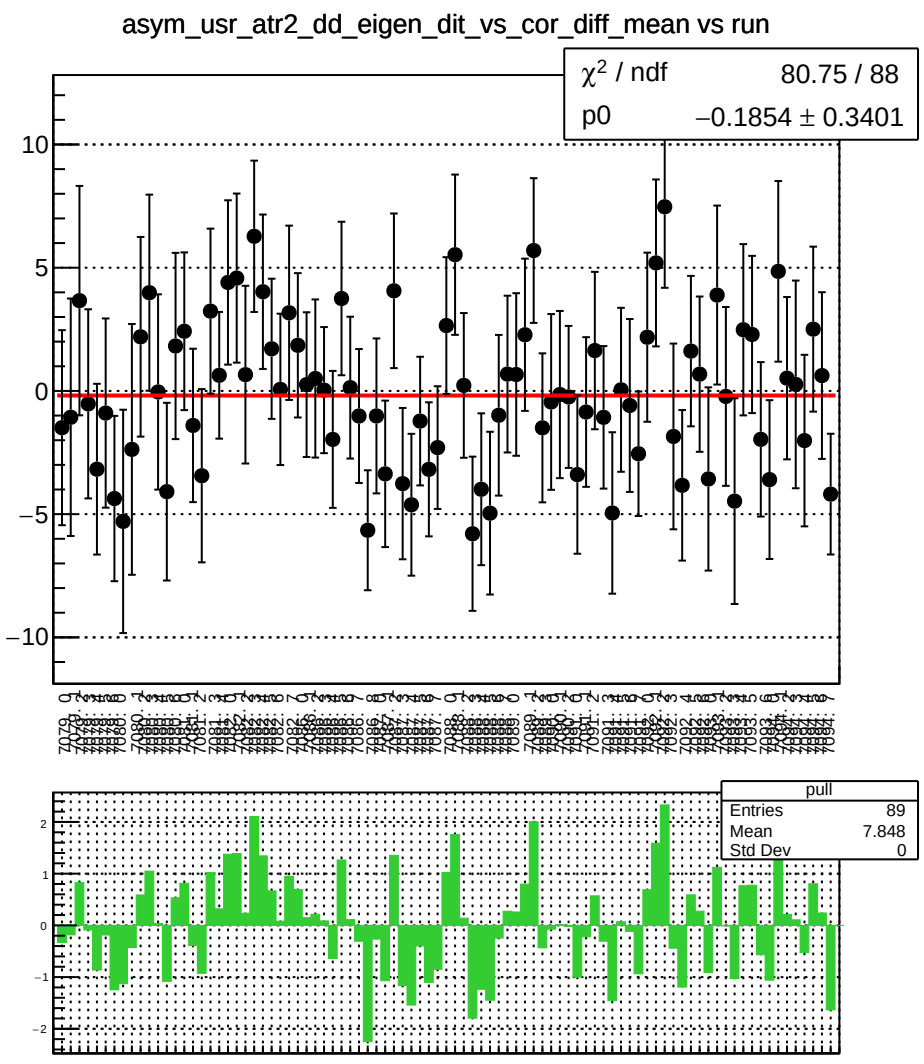

pull1D
Entries 89
Mean 0.02142
Std Dev 0.9523

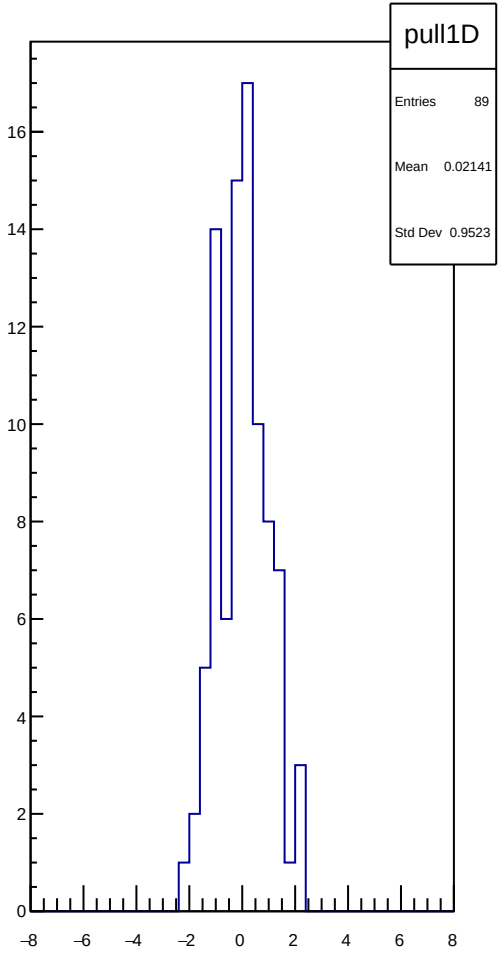

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.814e+04 / 88
p0 309.6 ± 0.2405
500
450
400
350
300
250

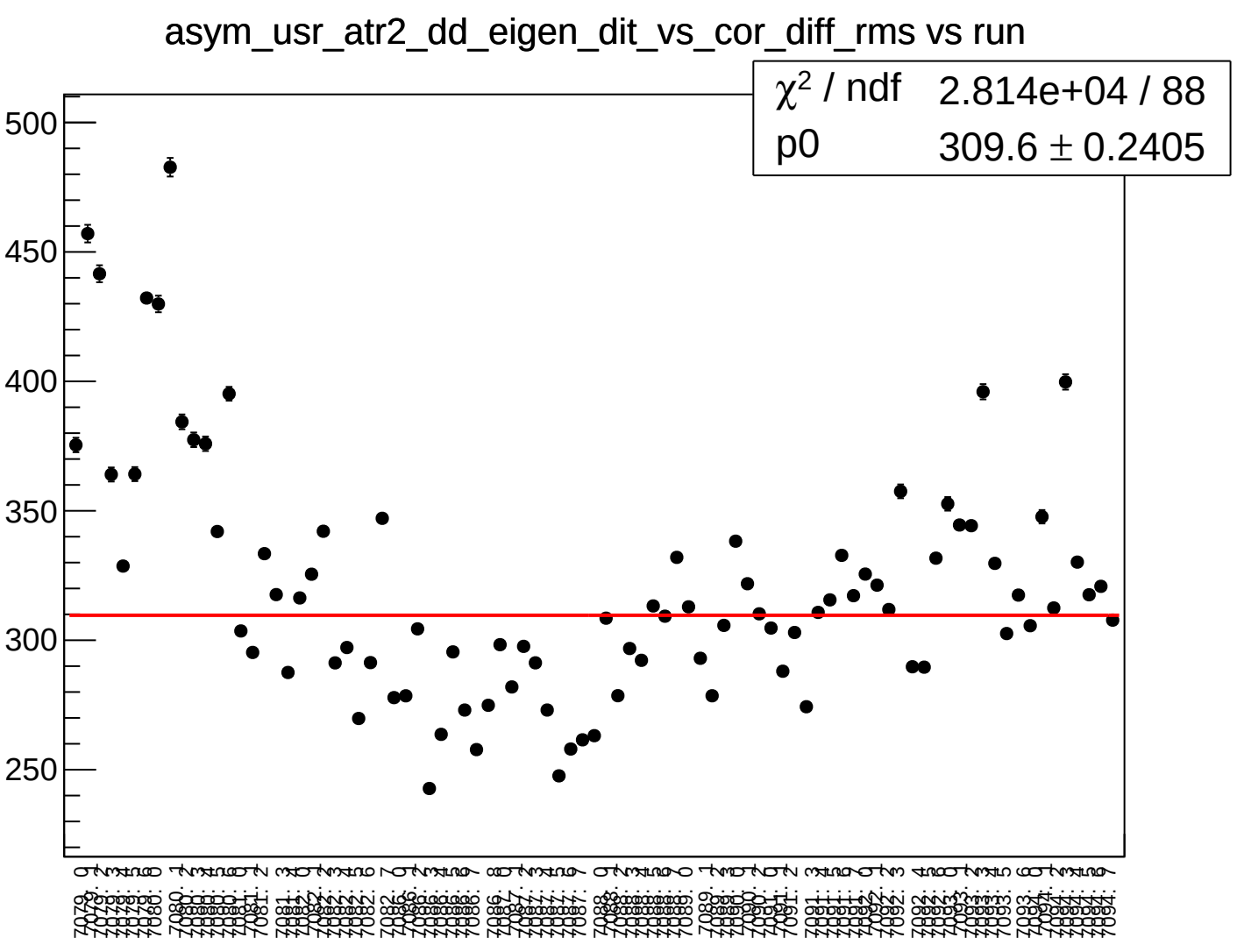

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 69.65 / 88
p0 3.07e−05 ± 2.719e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −677.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

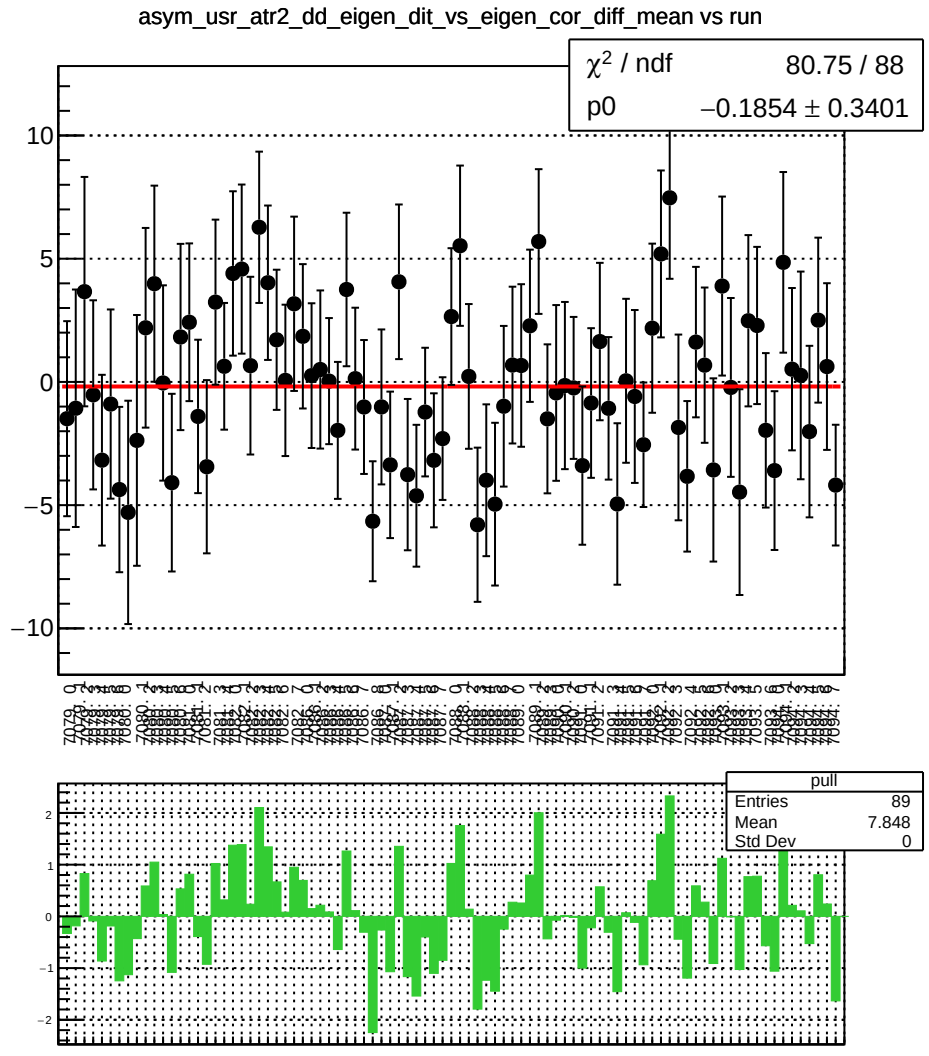

pull1D
Entries 89
Mean −0.001841
Std Dev 0.8846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

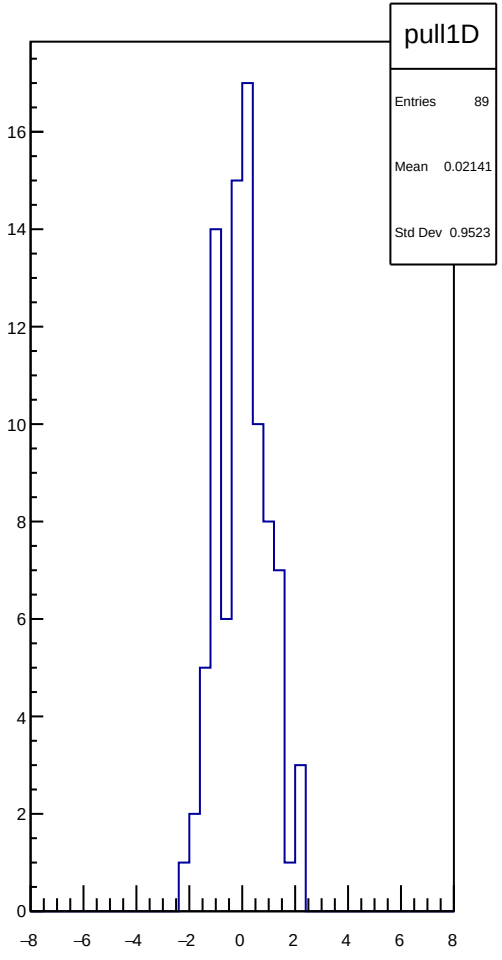

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.439e+05 / 88
p0 0.02388 ± 1.923e−05
0.035
0.03
0.025
0.02
0.015

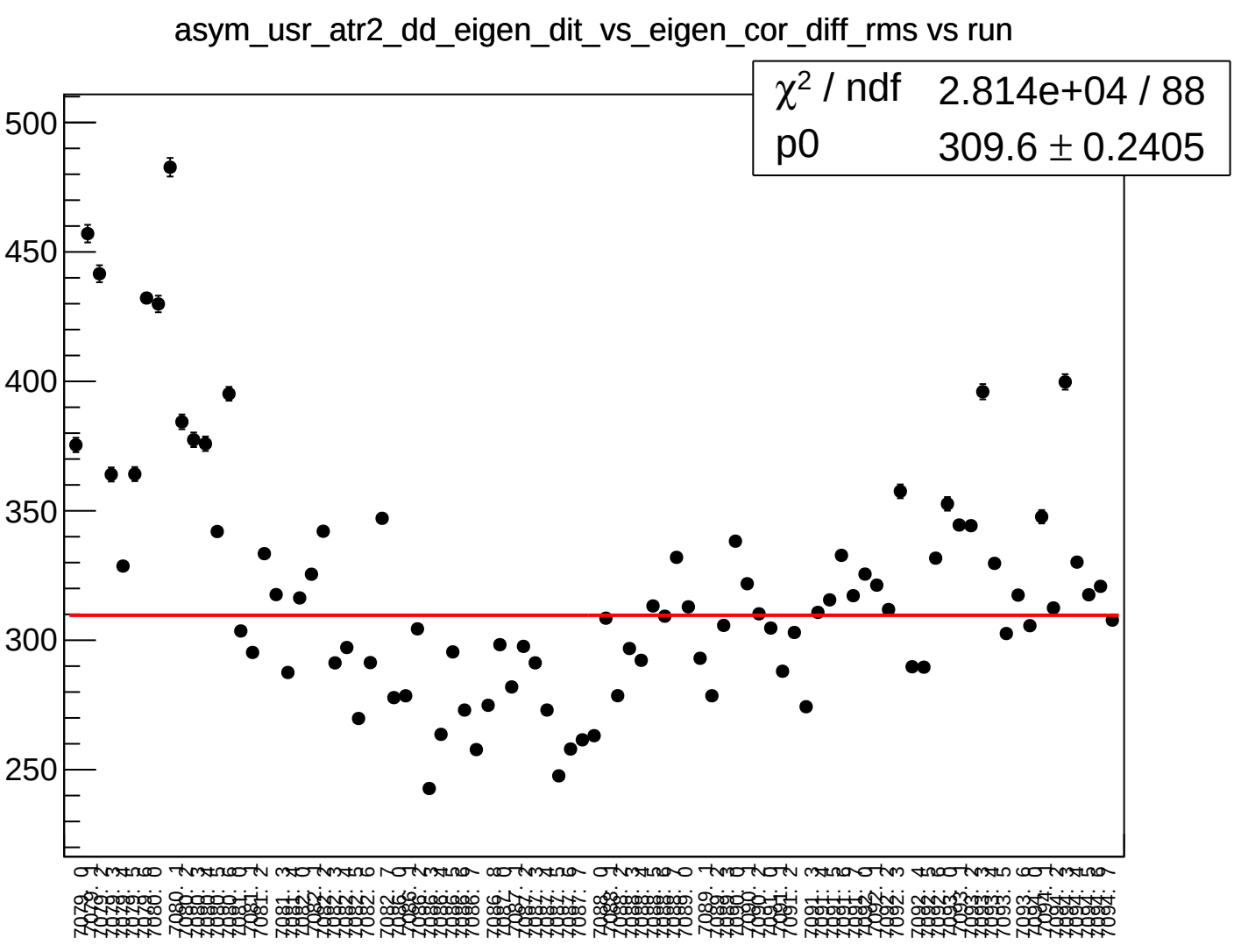

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.75 / 88
p0 −0.1854 ± 0.3401
10
5
0
−5
−10
pull
Entries 89
Mean 7.848
Std Dev 0
2
1
0
−1
−2

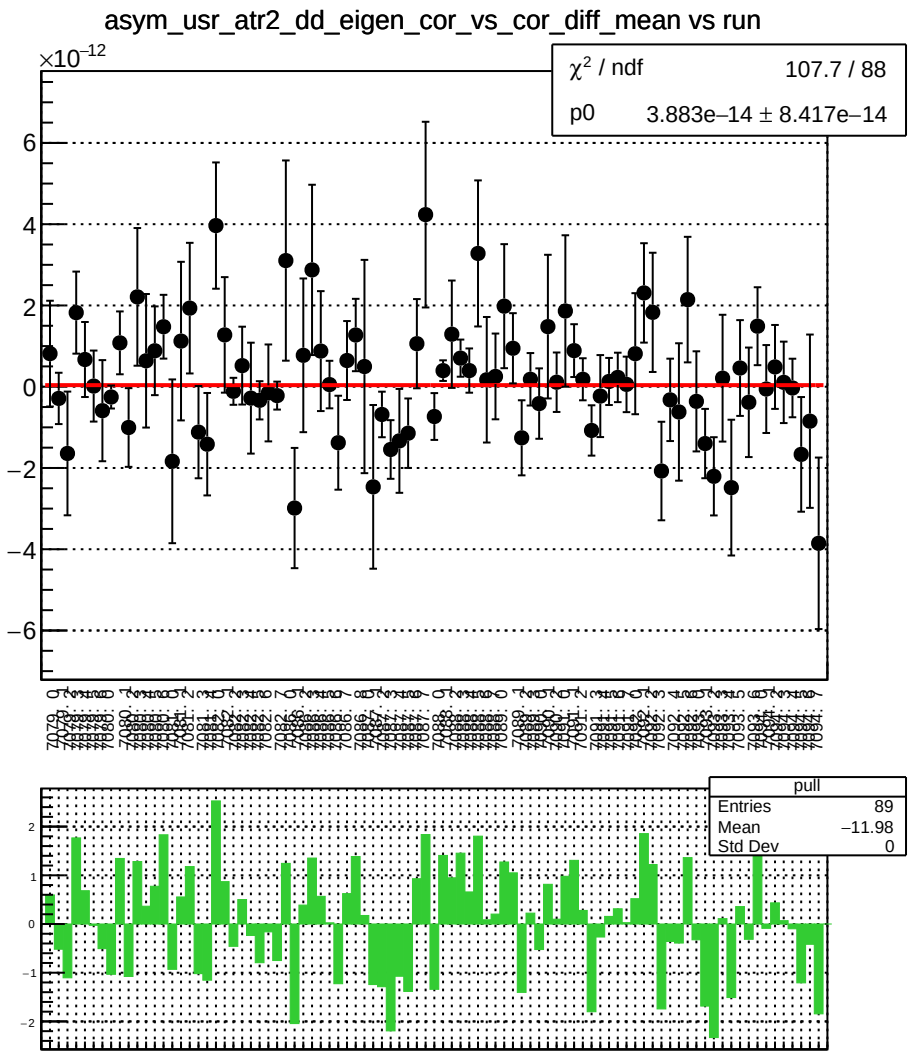

pull1D
Entries 89
Mean 0.02141
Std Dev 0.9523
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

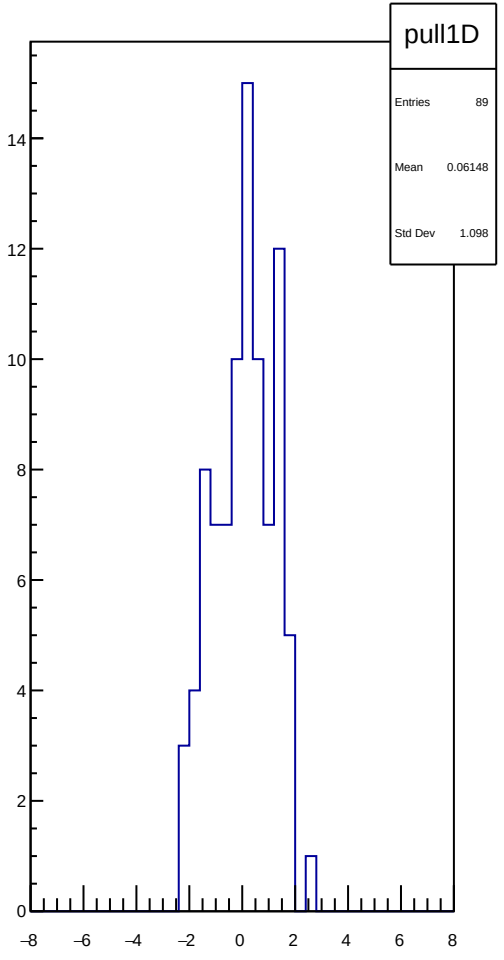

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.814e+04 / 88
p0 309.6 ± 0.2405
500
450
400
350
300
250

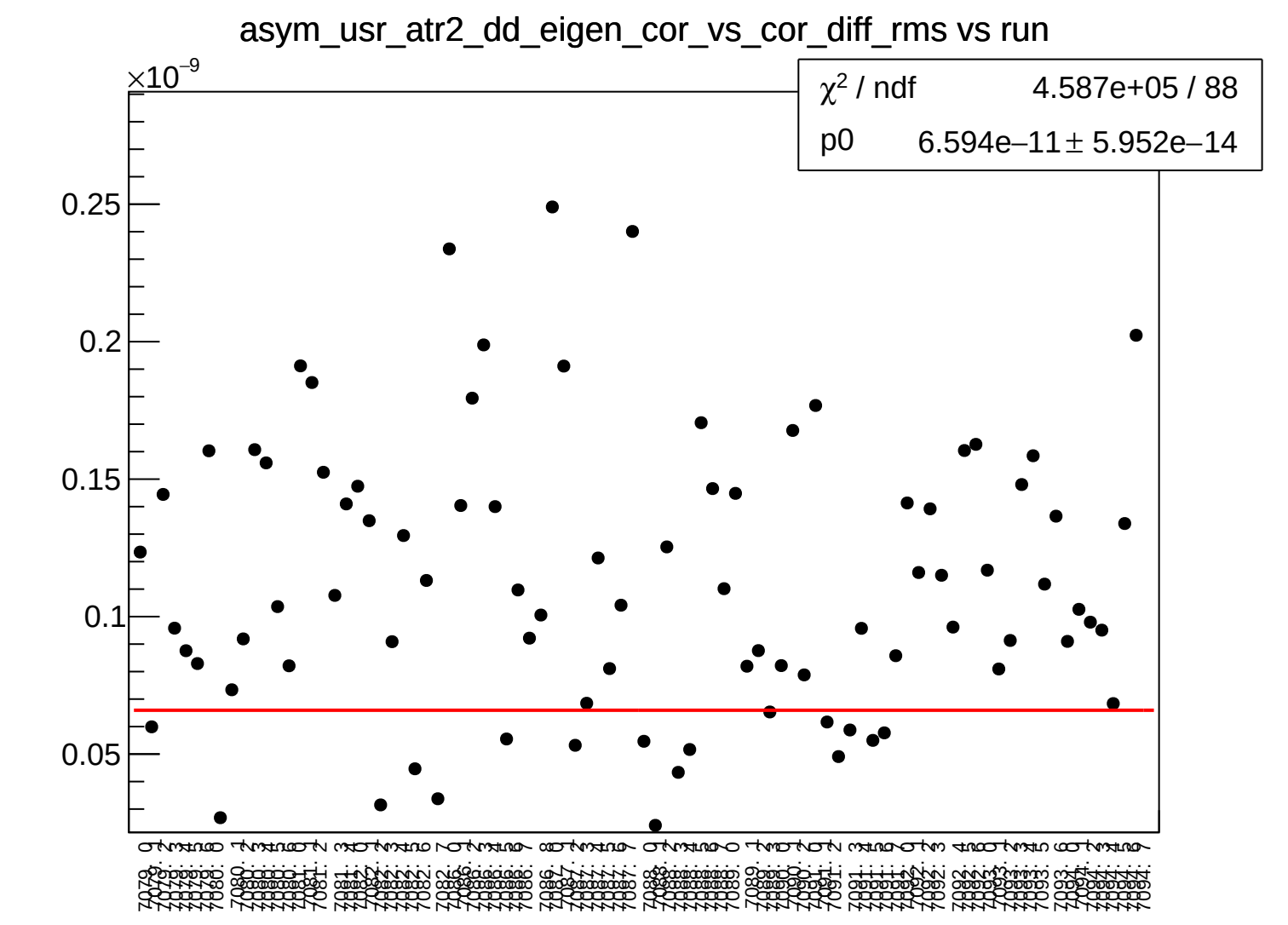

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.75 / 88
p0 −0.1854 ± 0.3401
pull
Entries 89
Mean 7.848
Std Dev 0

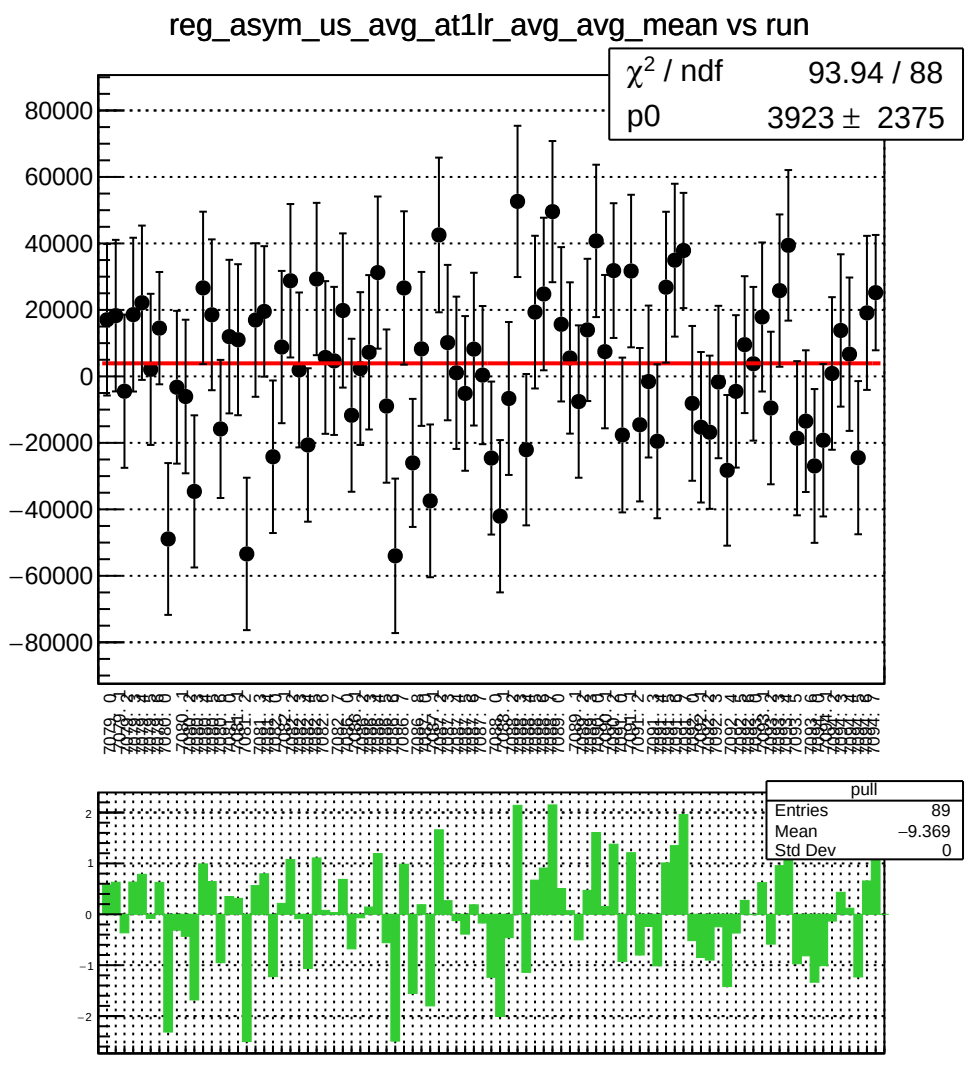

pull1D
Entries 89
Mean 0.02141
Std Dev 0.9523

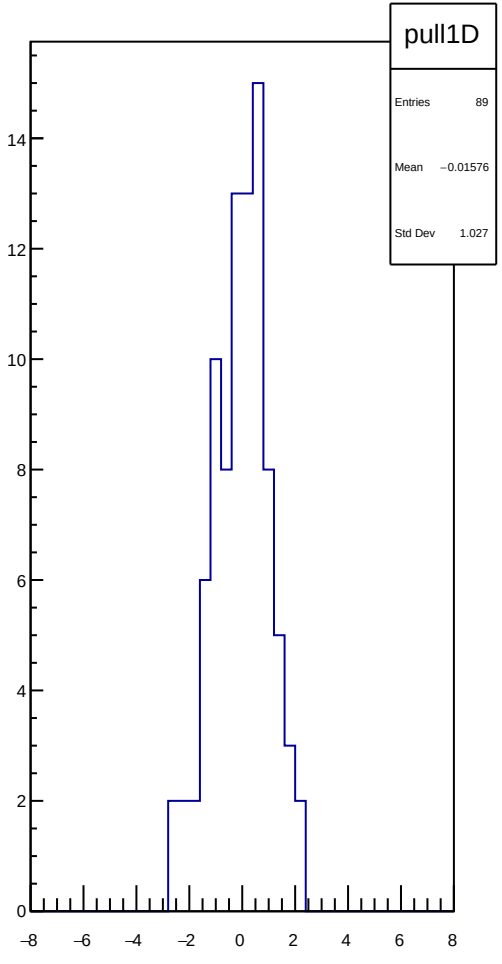

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.814e+04 / 88
p0 309.6 ± 0.2405
500
450
400
350
300
250

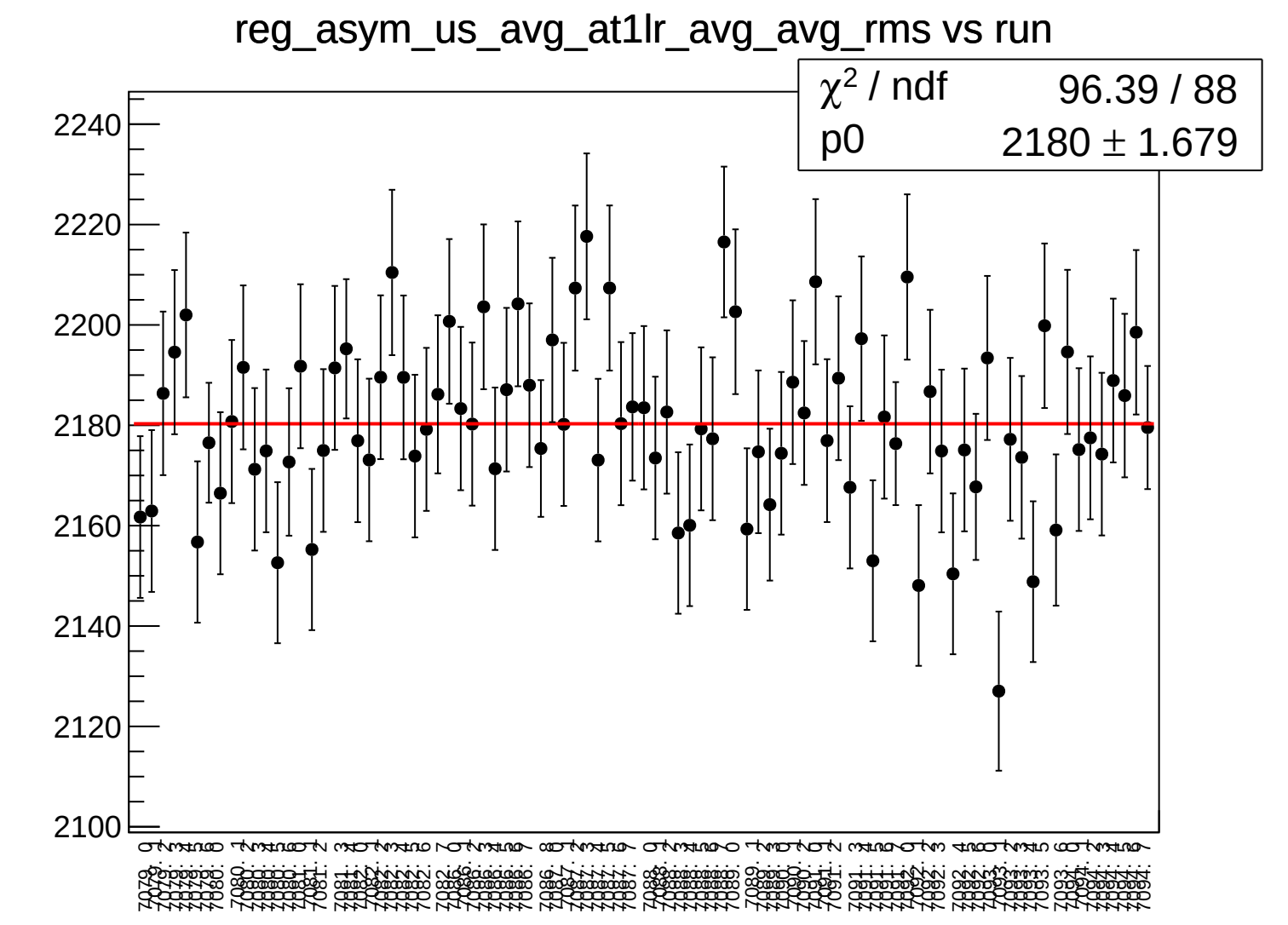

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.7 / 88
p0 3.883e−14 ± 8.417e−14
pull
Entries 89
Mean −11.98
Std Dev 0

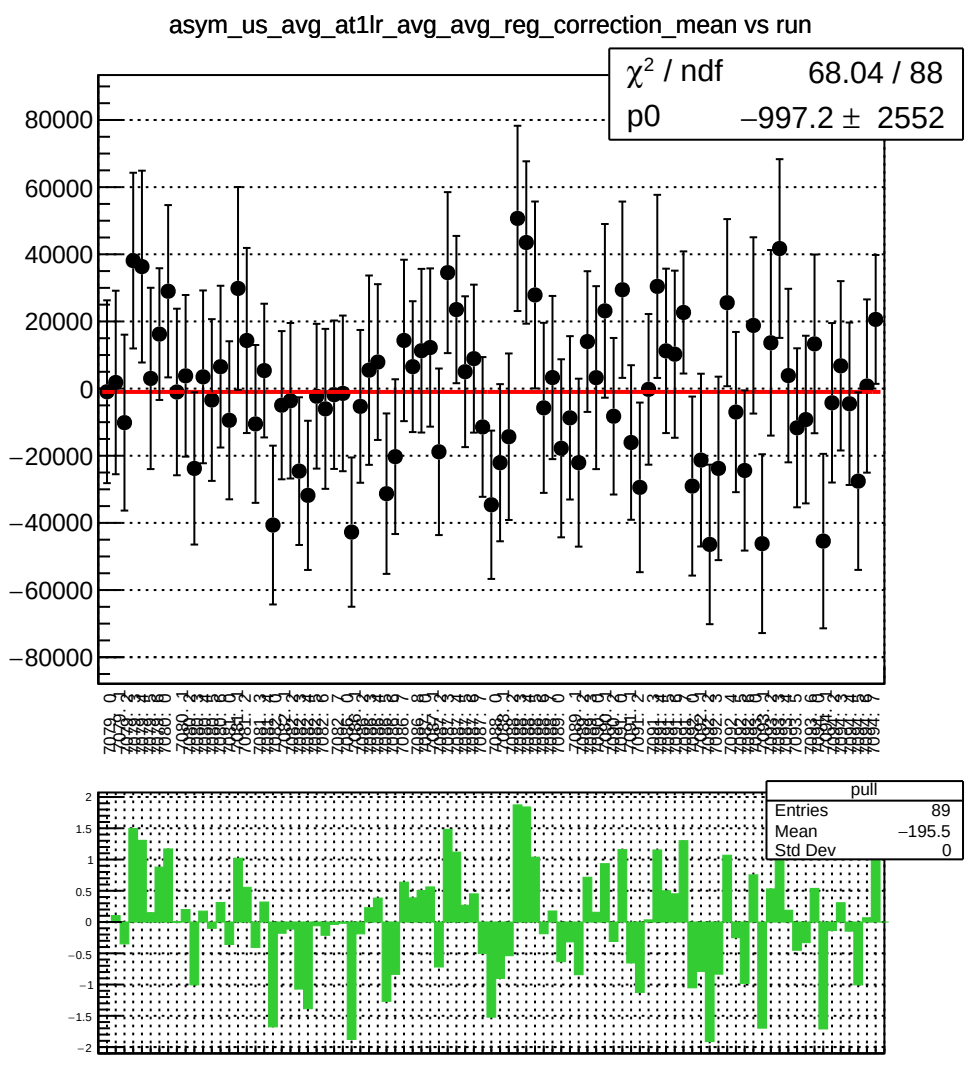

pull1D
Entries 89
Mean 0.06148
Std Dev 1.098

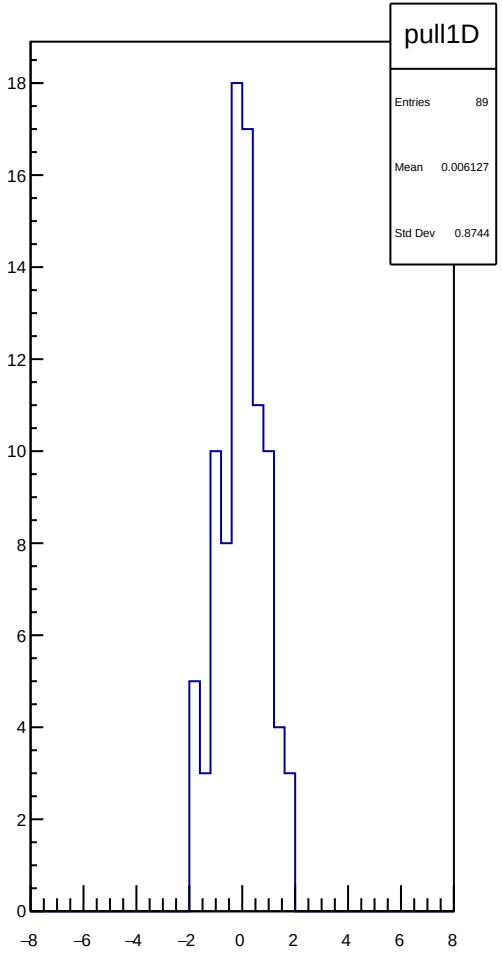

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.587e+05 / 88
p0 6.594e−11 ± 5.952e−14
0.25
0.2
0.15
0.1
0.05

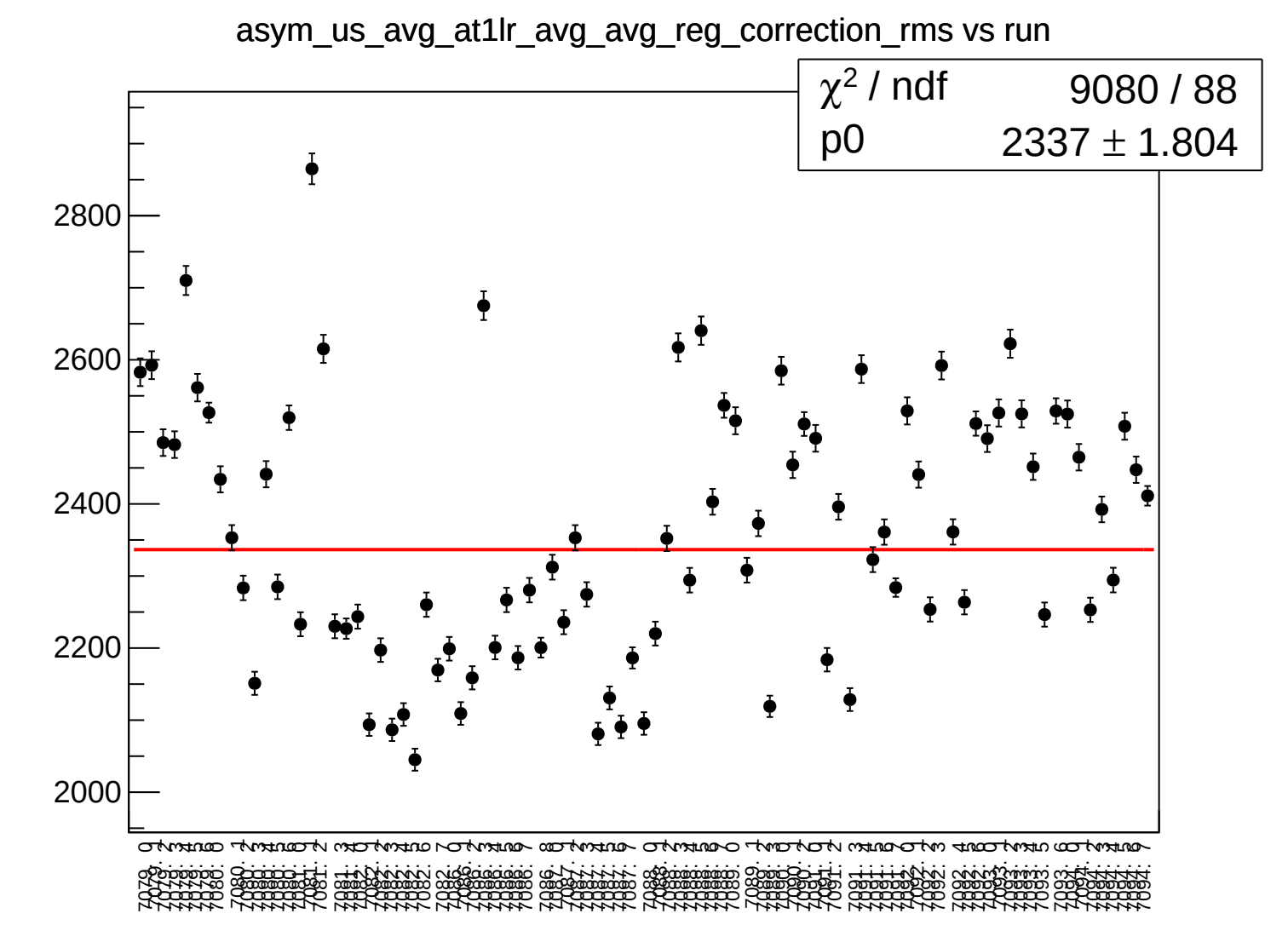

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 93.94 / 88
p0 3923 ± 2375
pull
Entries 89
Mean −9.369
Std Dev 0

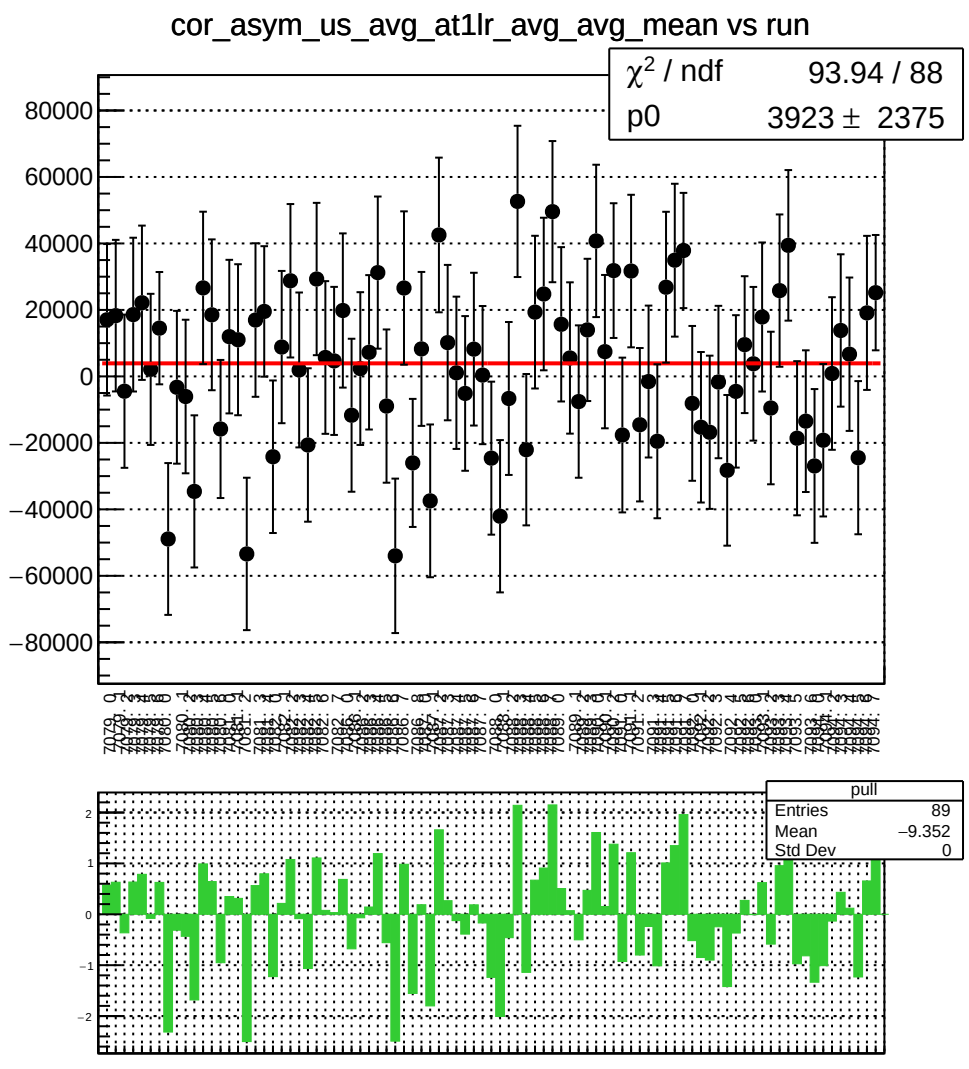

pull1D
Entries 89
Mean −0.01576
Std Dev 1.027

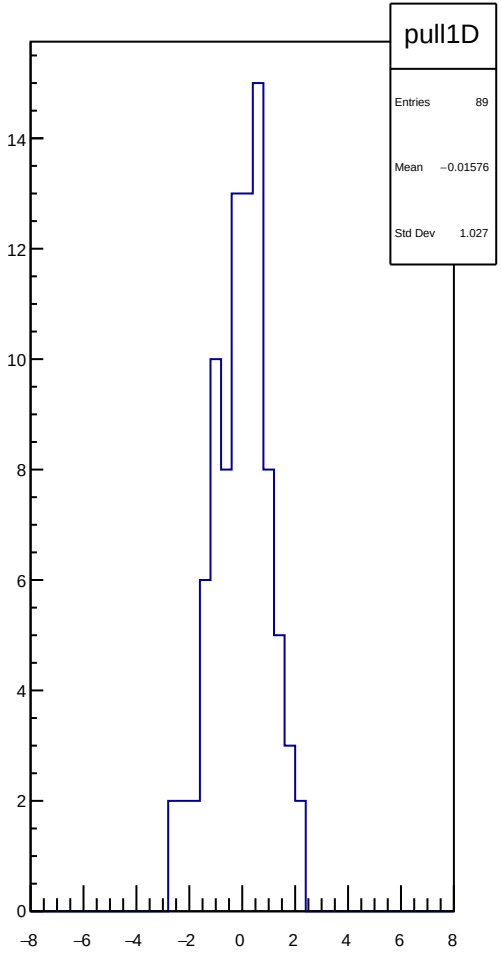

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 96.39 / 88
p0 2180 ± 1.679
2240
2220
2200
2180
2160
2140
2120
2100

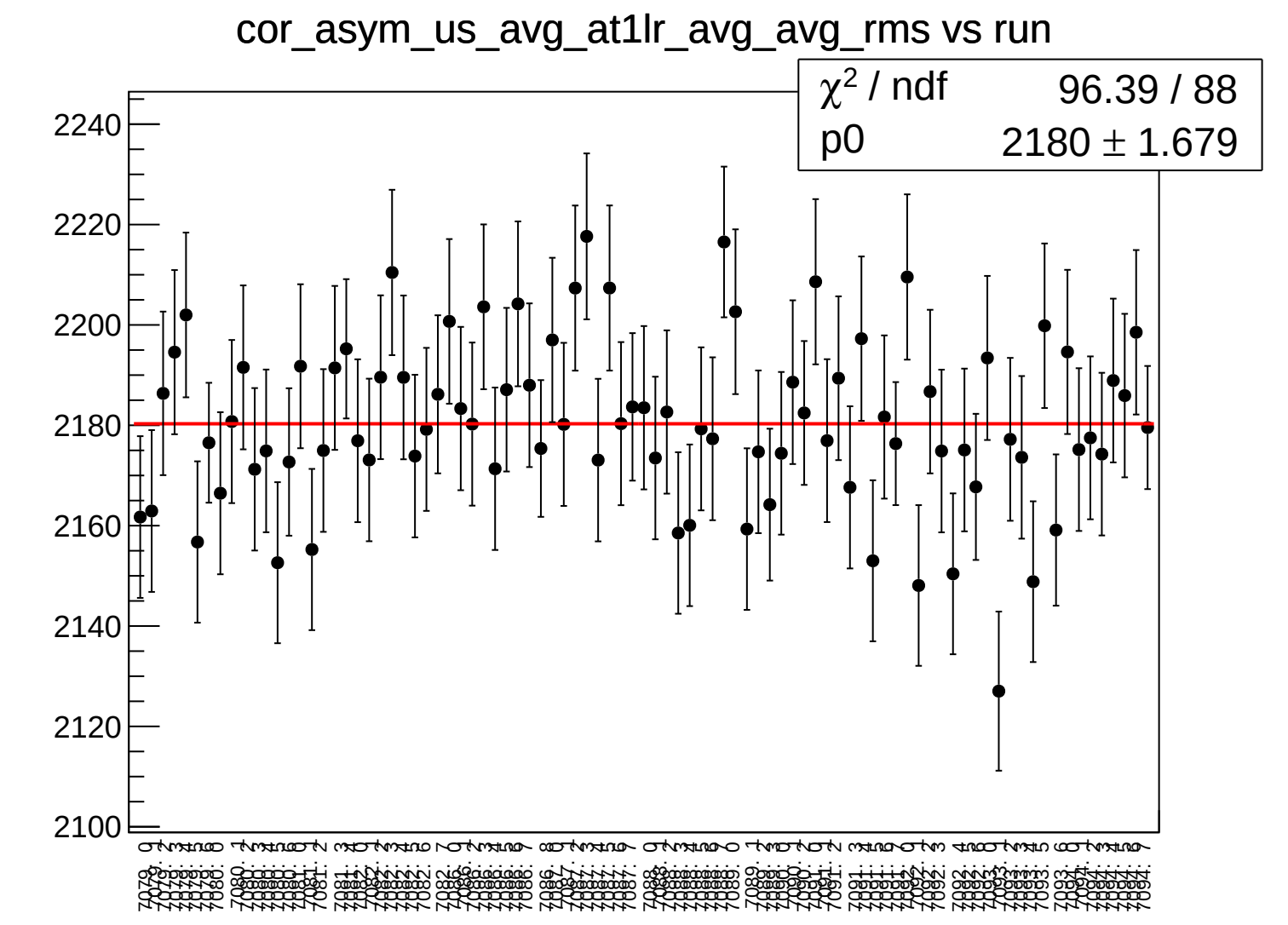

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 68.04 / 88
p0 −997.2 ± 2552
pull
Entries 89
Mean −195.5
Std Dev 0

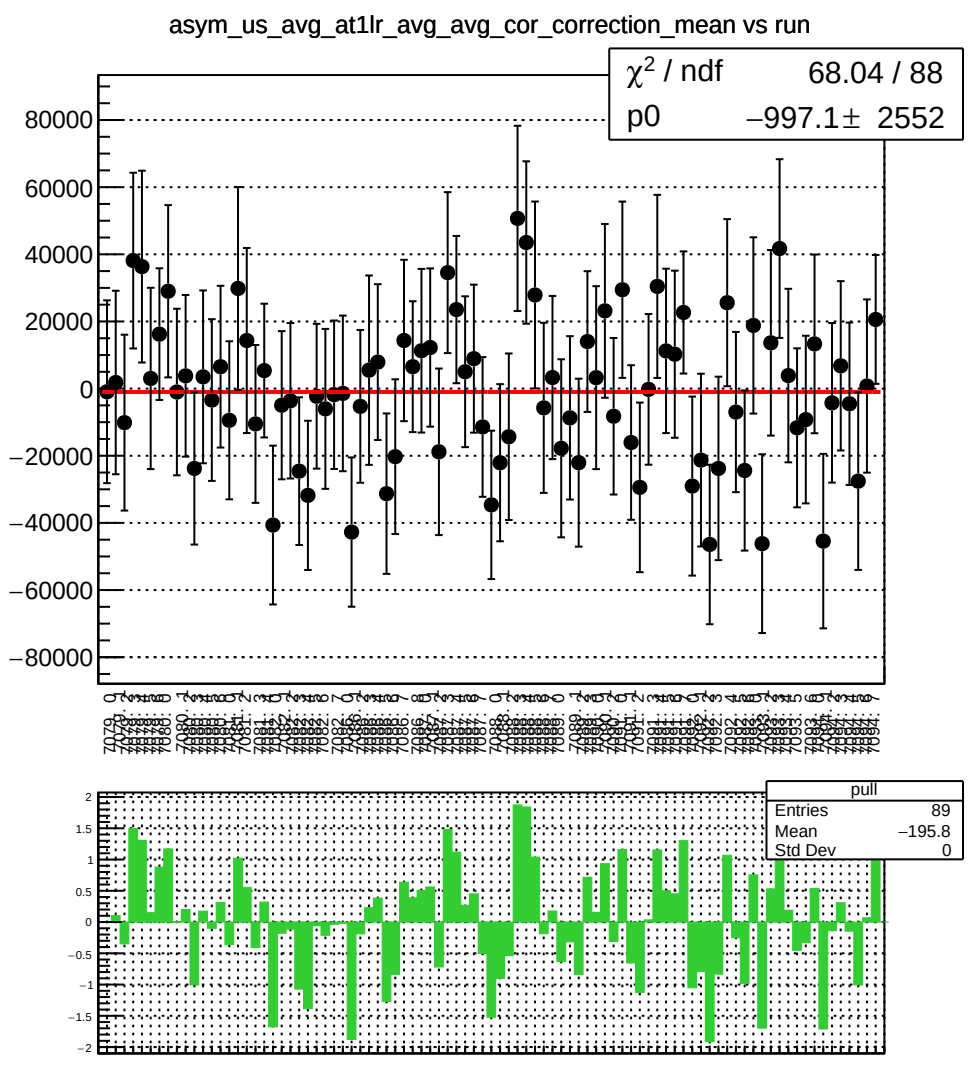

pull1D
Entries 89
Mean 0.006127
Std Dev 0.8744

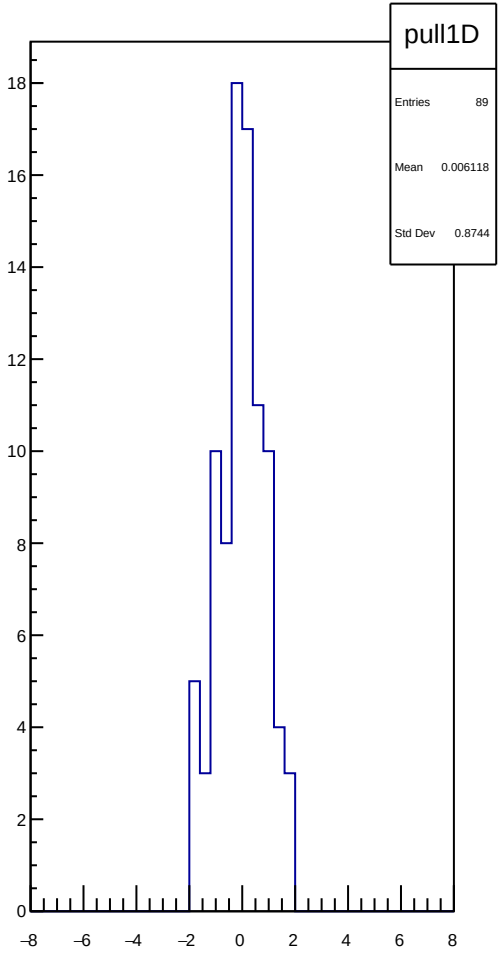

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 9080 / 88
p0 2337 ± 1.804
2800
2600
2400
2200
2000

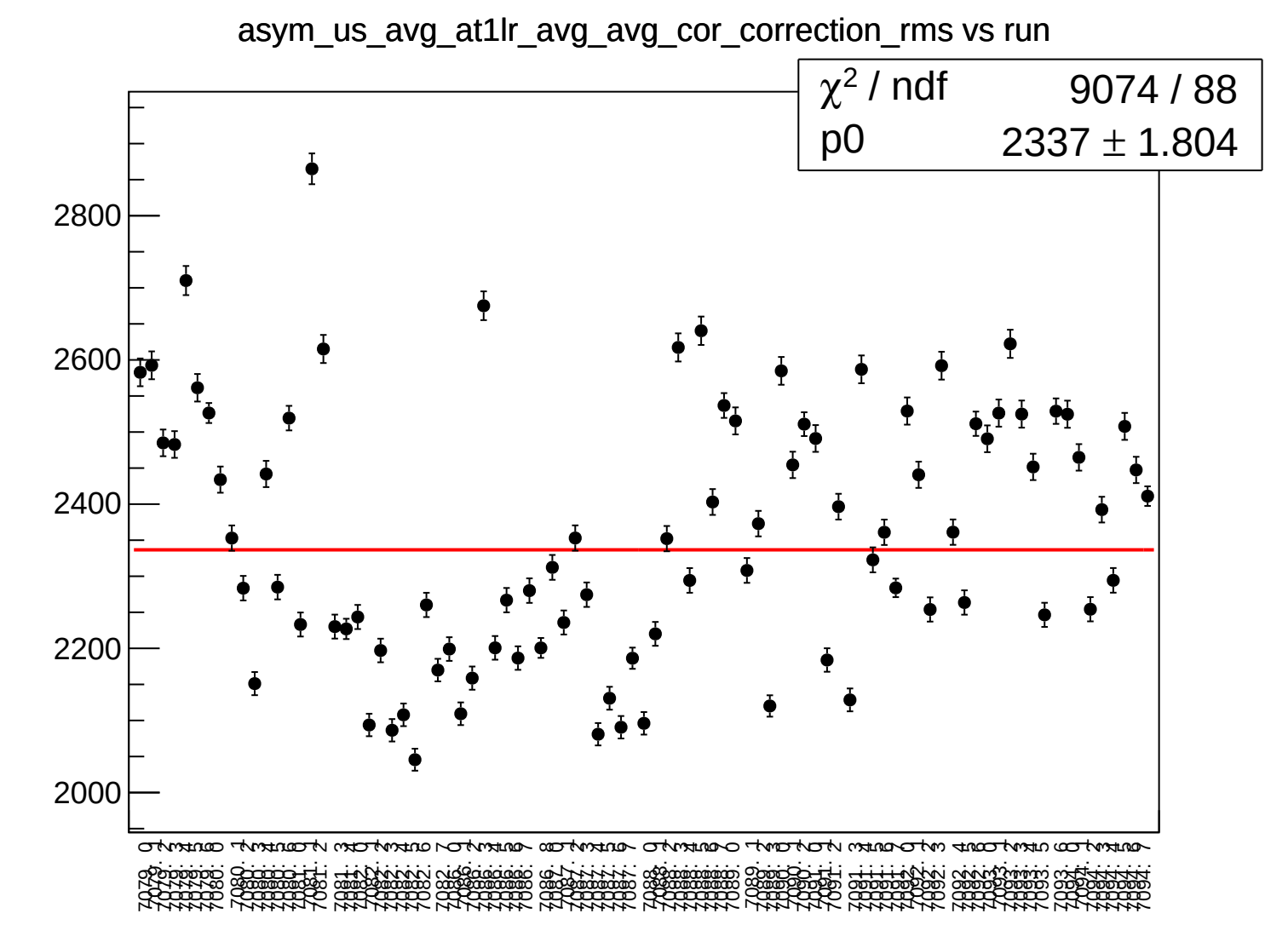

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 93.94 / 88
p0 3923 ± 2375
pull
Entries 89
Mean −9.352
Std Dev 0

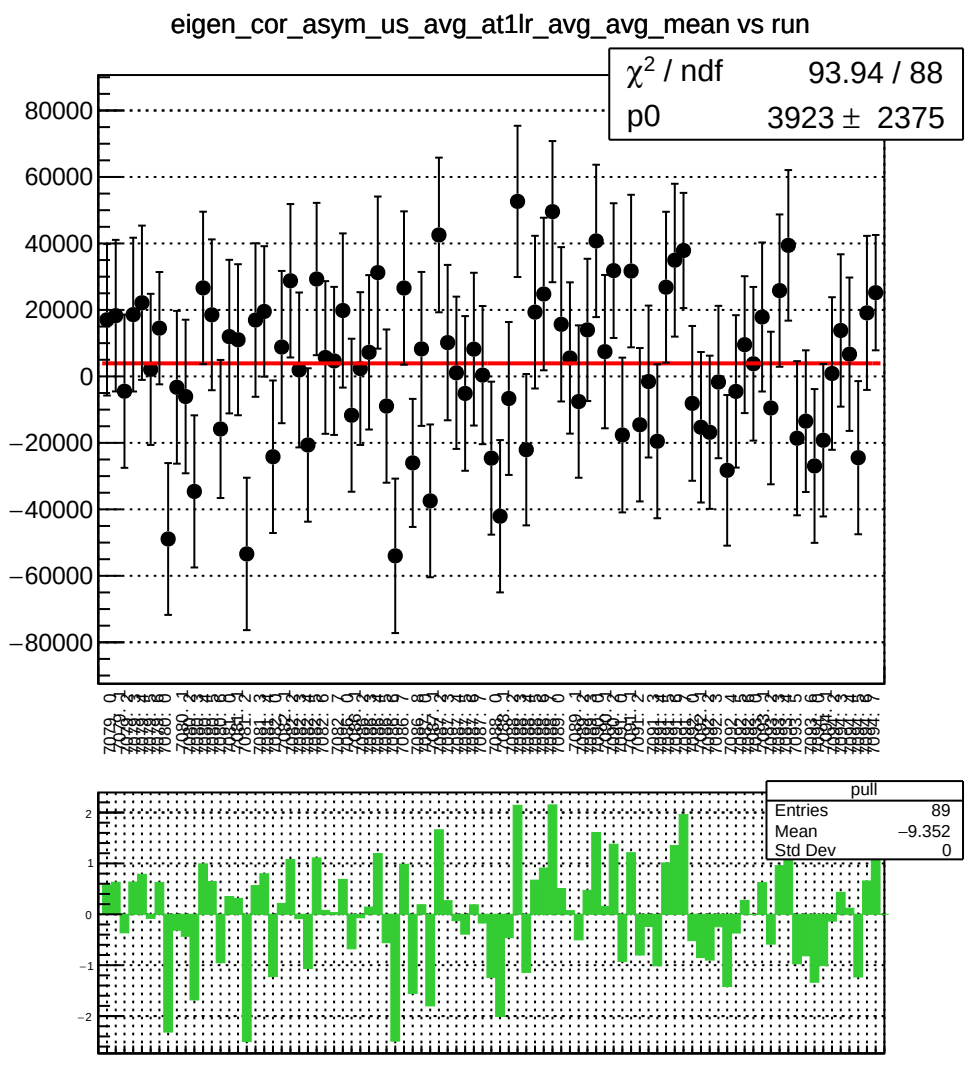

pull1D
Entries 89
Mean −0.01576
Std Dev 1.027

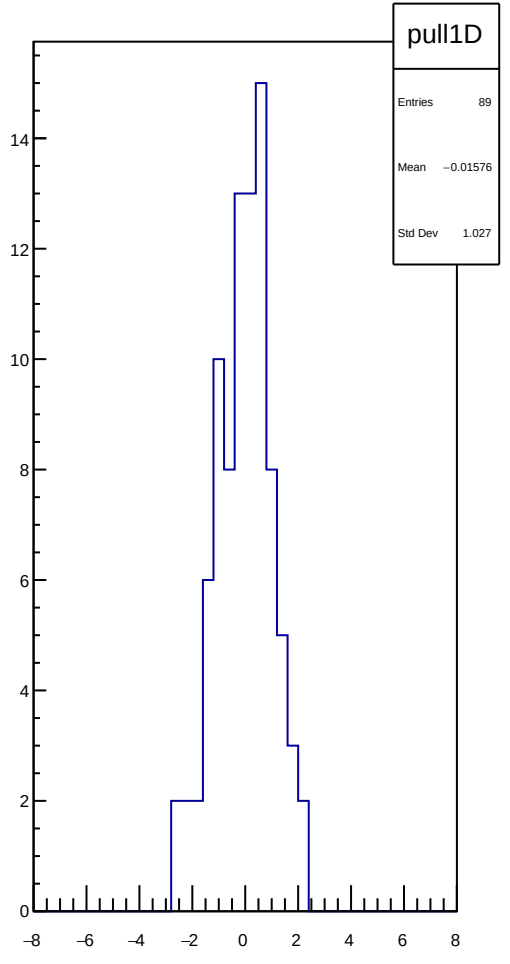

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 96.39 / 88
p0 2180 ± 1.679
2240
2220
2200
2180
2160
2140
2120
2100

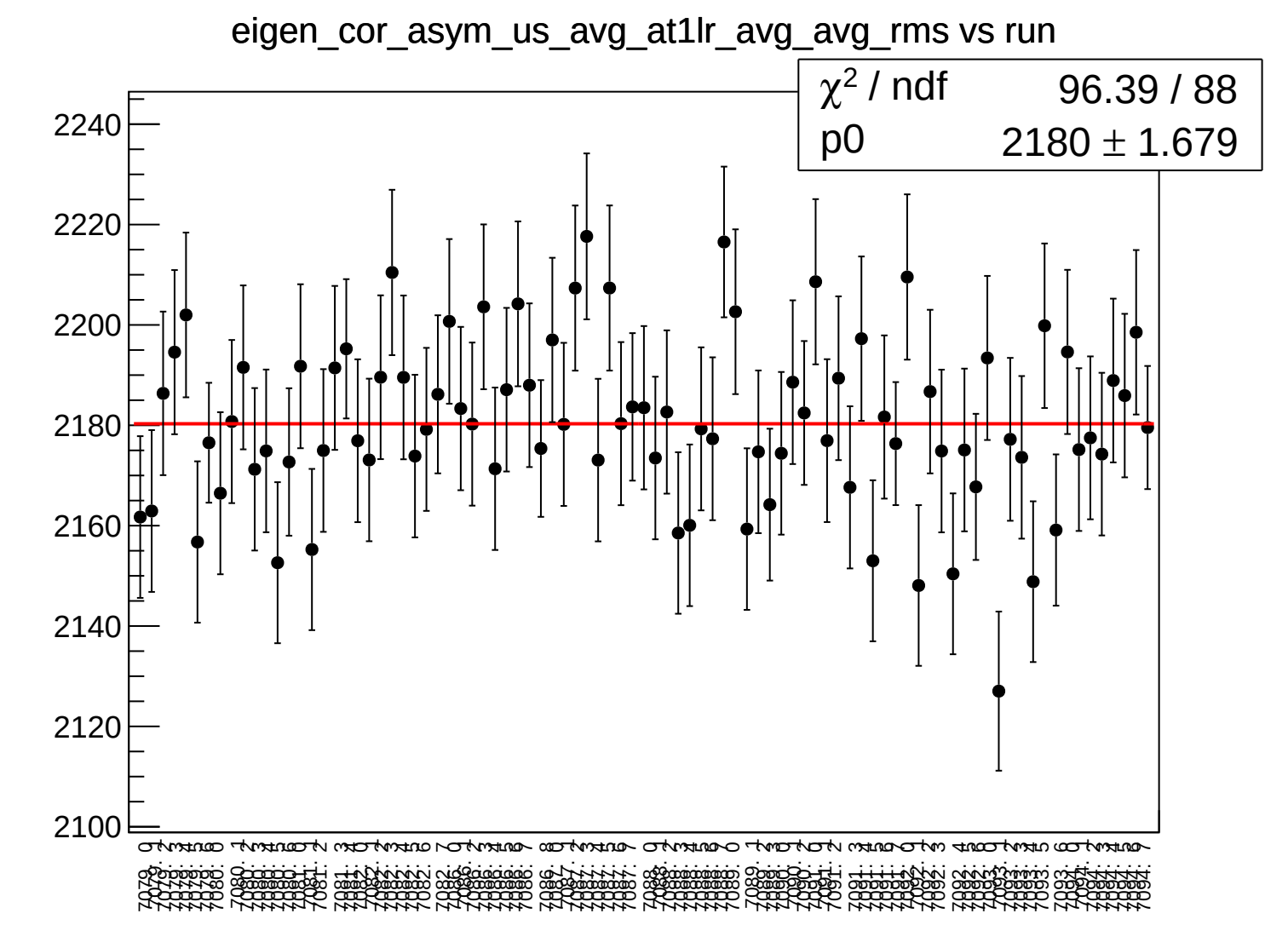

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 68.04 / 88
p0 −997.1± 2552
pull
Entries 89
Mean −195.8
Std Dev 0

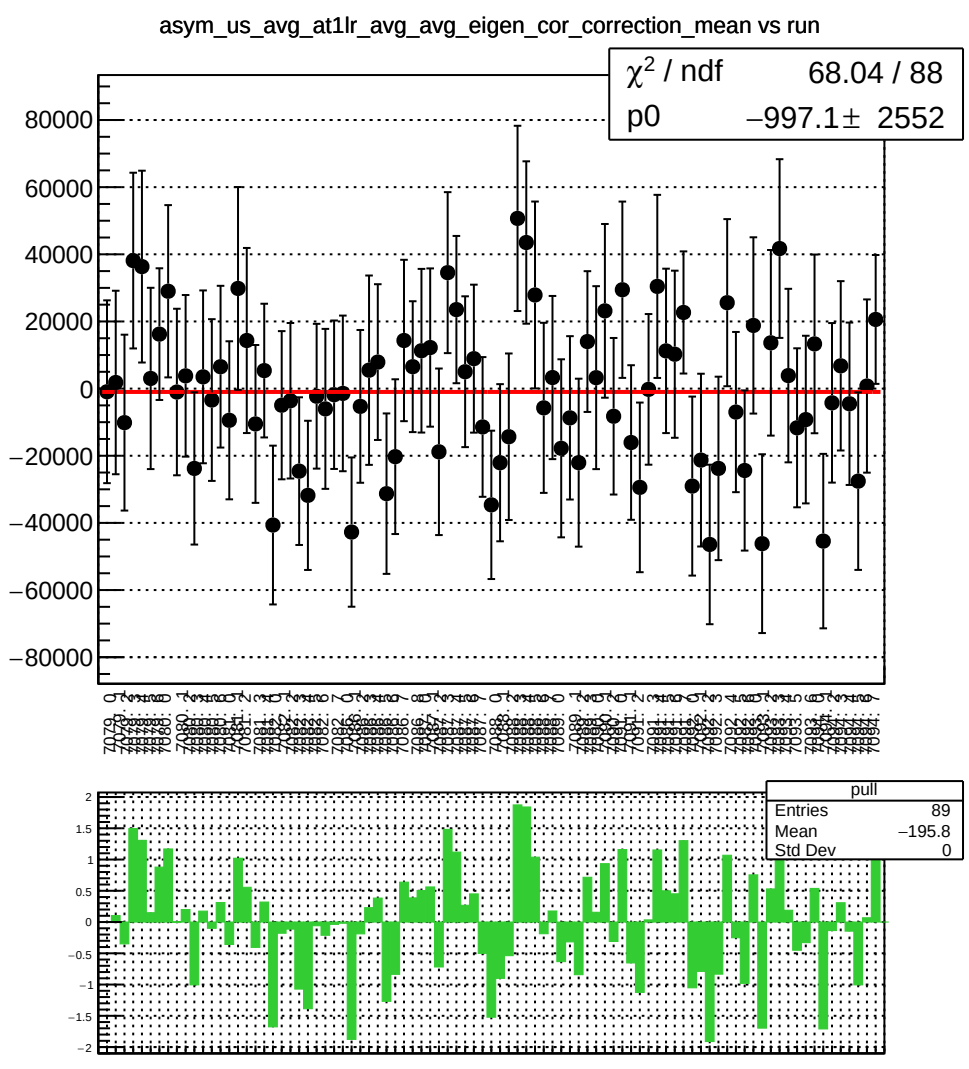

pull1D
Entries 89
Mean 0.006118
Std Dev 0.8744

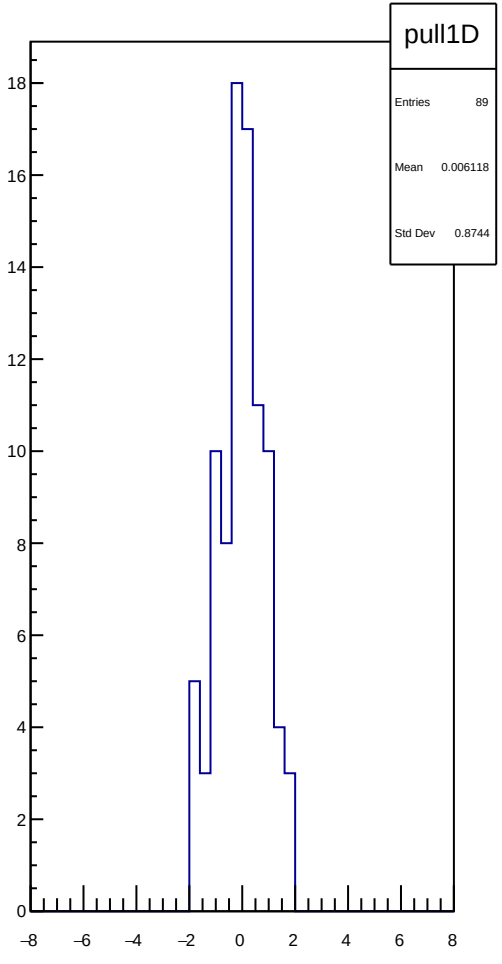

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 9074 / 88
p0 2337 ± 1.804
2800
2600
2400
2200
2000

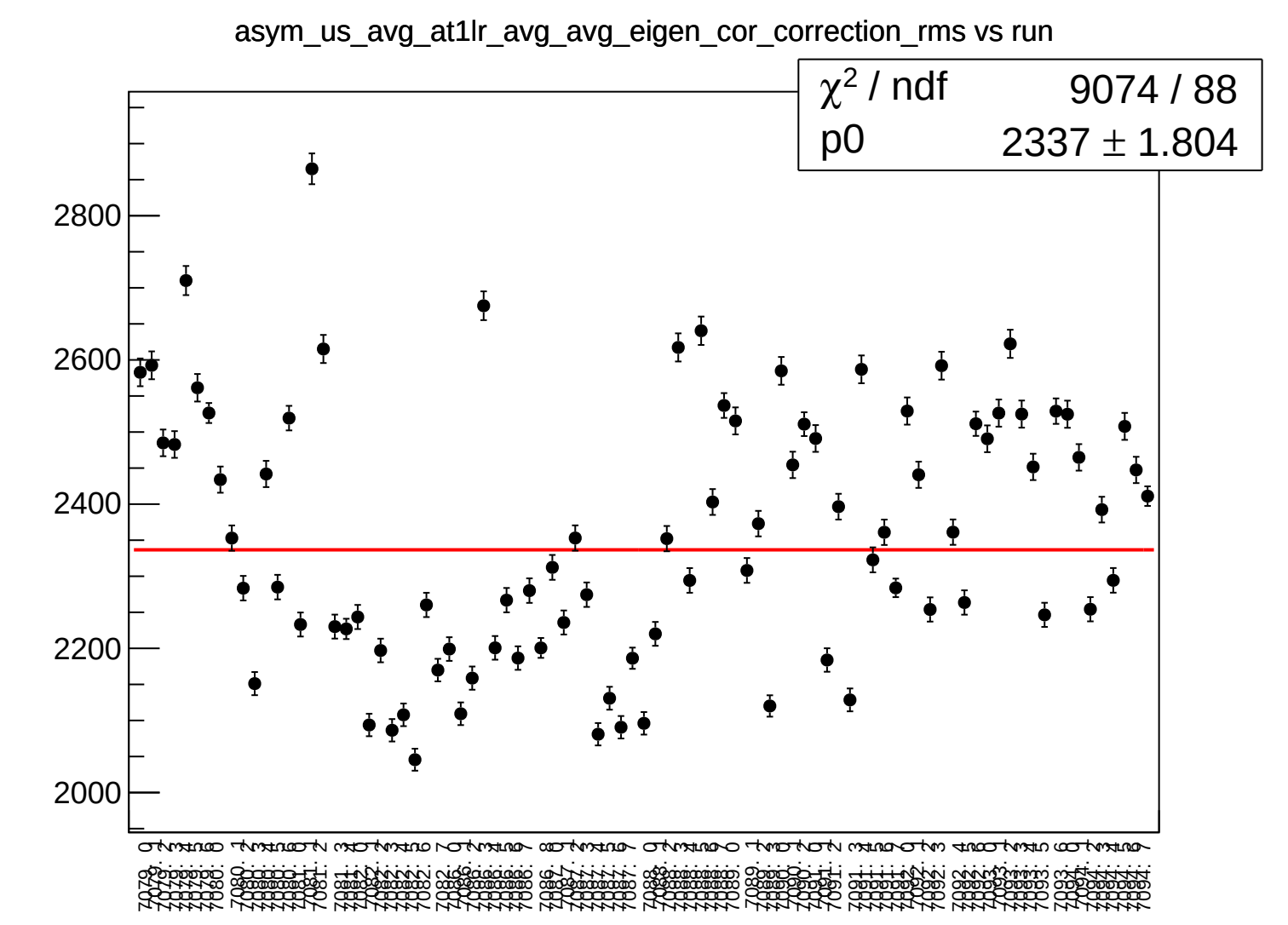

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 93.94 / 88
p0 3923 ± 2375
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −9.352
Std Dev 0
2
1
0
−1
−2

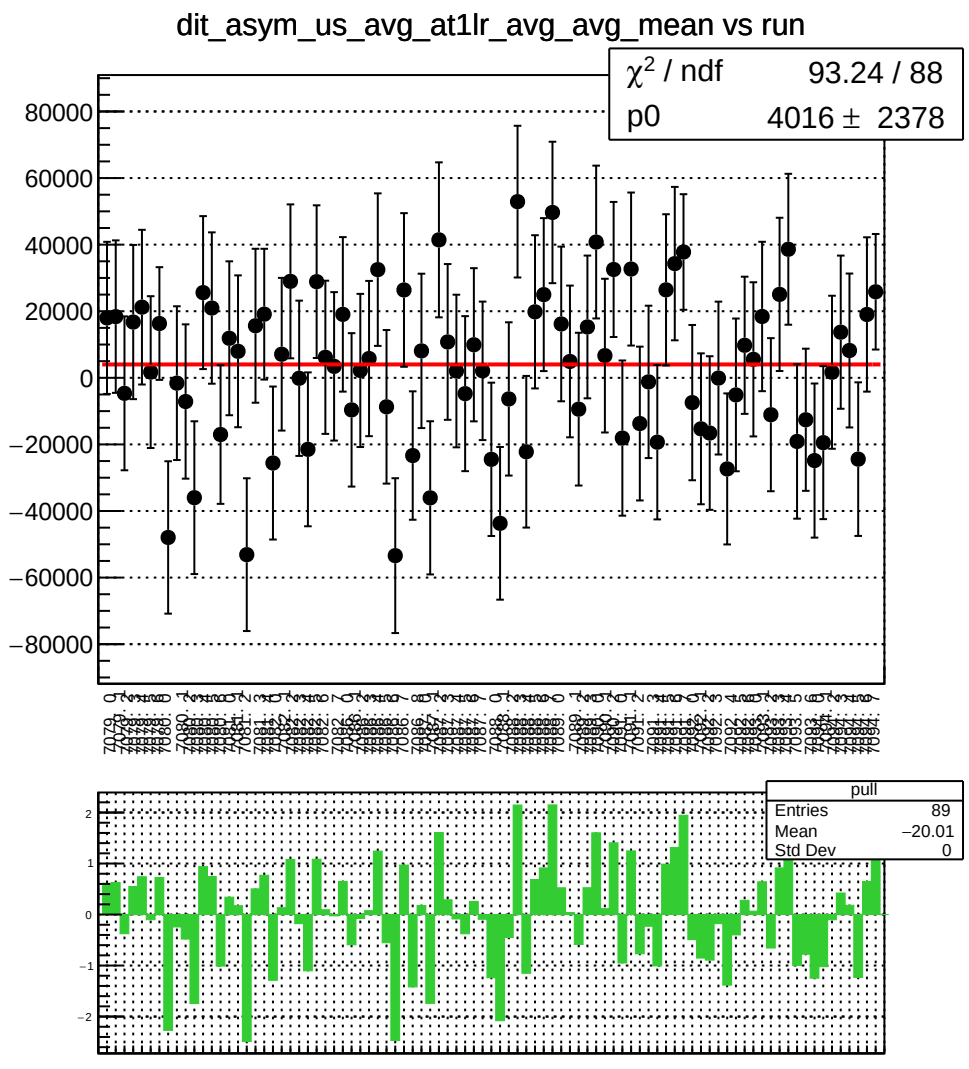

pull1D
Entries 89
Mean −0.01576
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

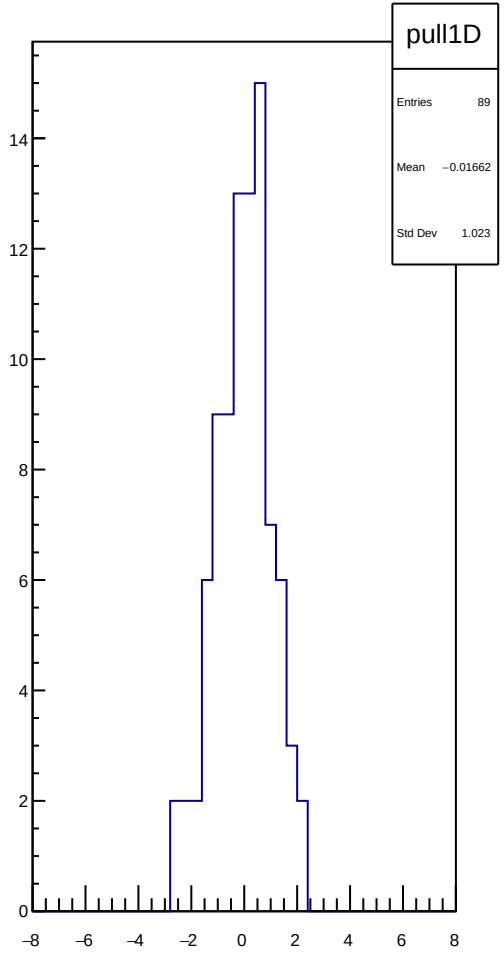

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 96.39 / 88
p0 2180 ± 1.679
2240
2220
2200
2180
2160
2140
2120
2100

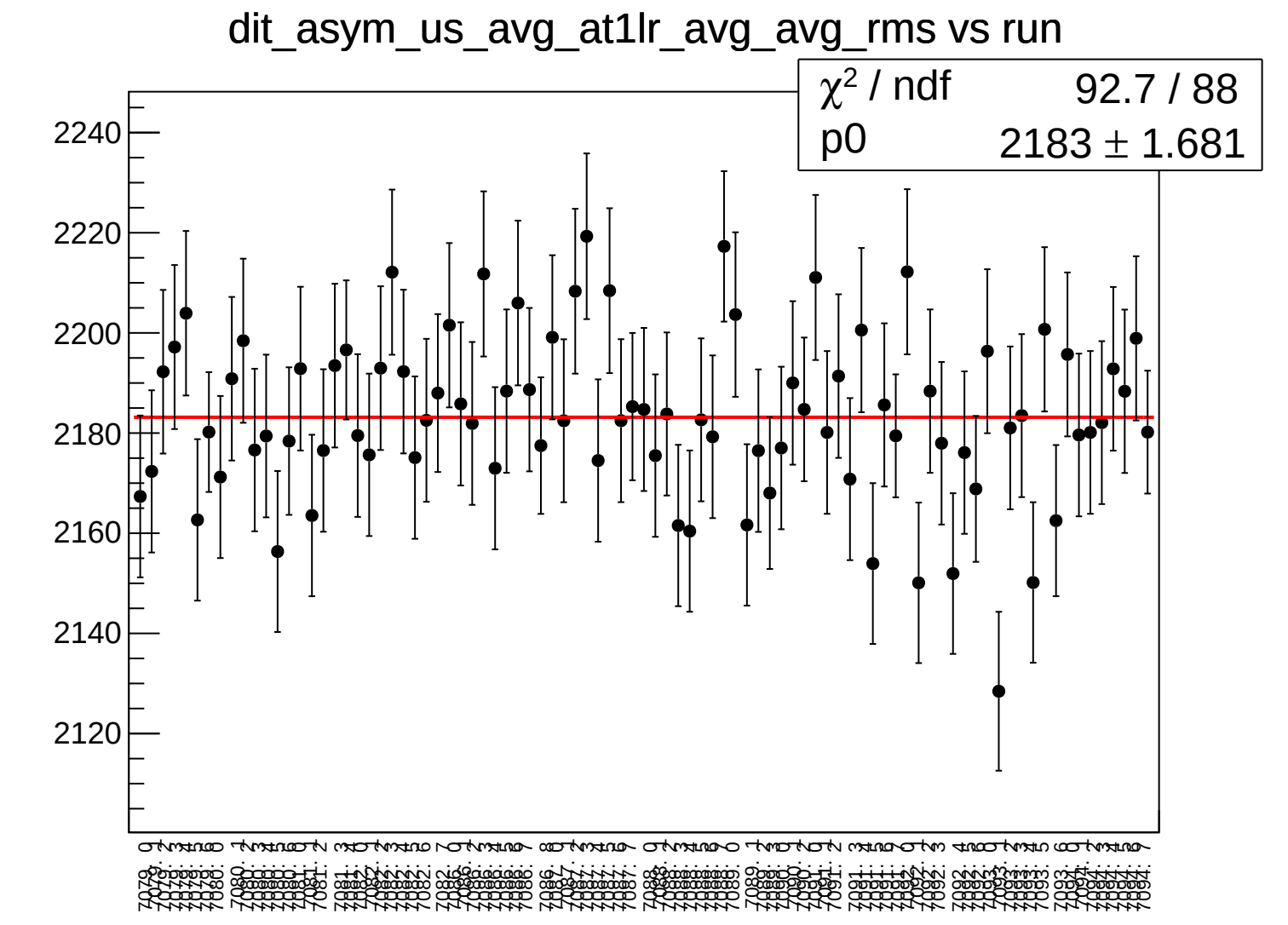

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.04 / 88
p0 −997.1± 2552
pull
Entries 89
Mean −195.8
Std Dev 0

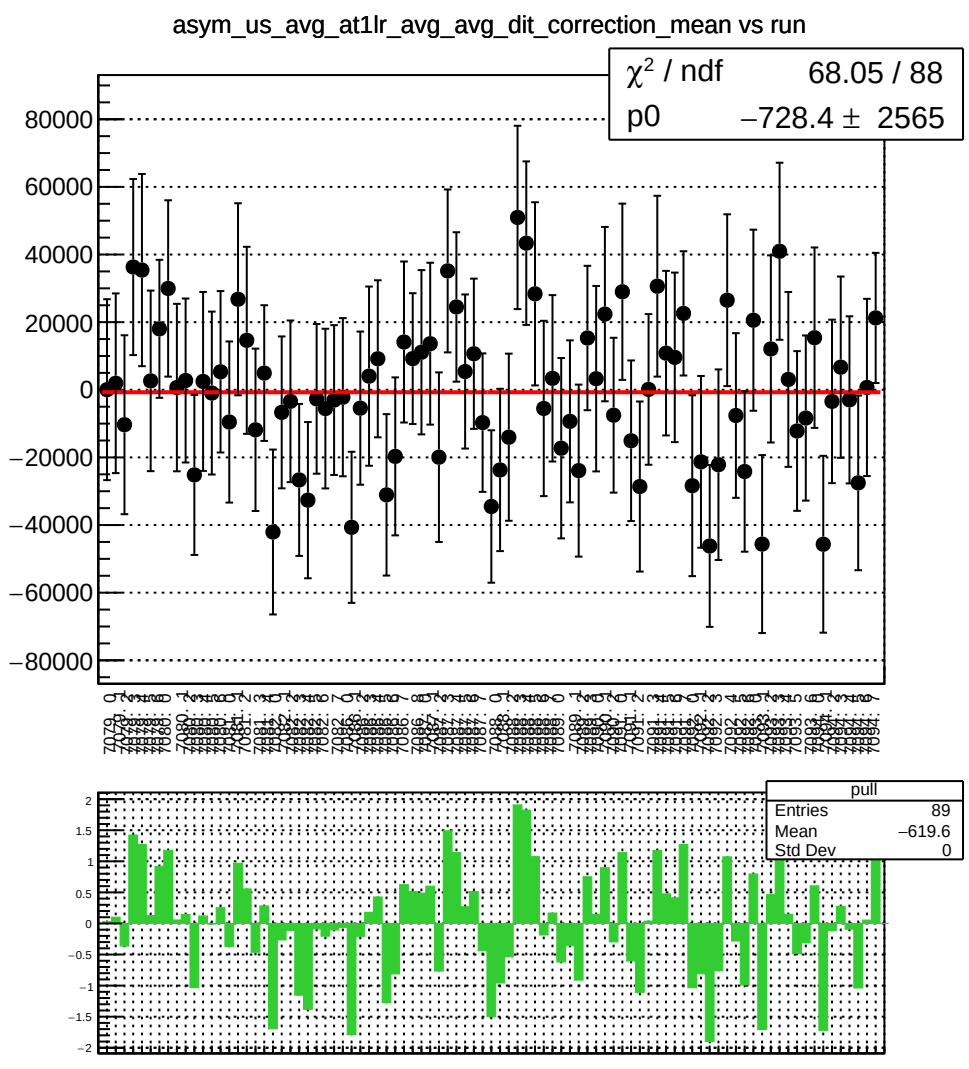

pull1D
Entries 89
Mean 0.006118
Std Dev 0.8744

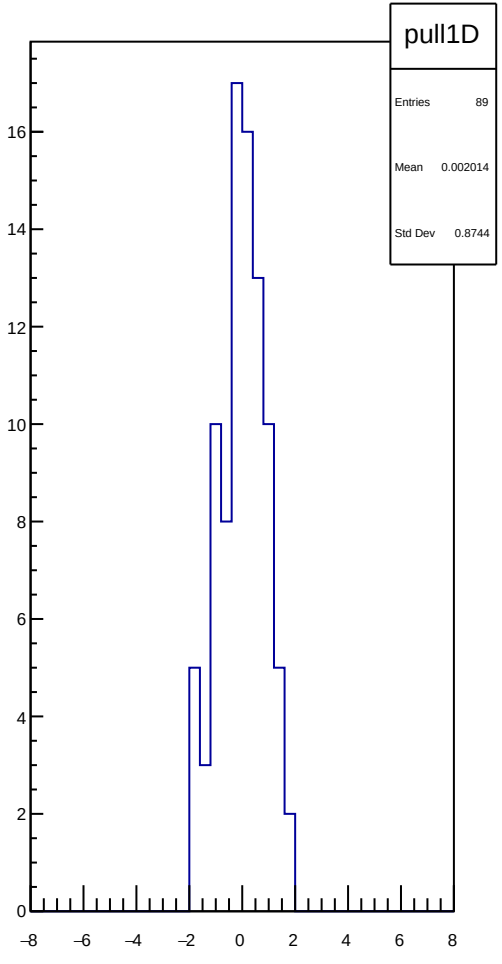

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 9074 / 88
p0 2337 ± 1.804
2800
2600
2400
2200
2000

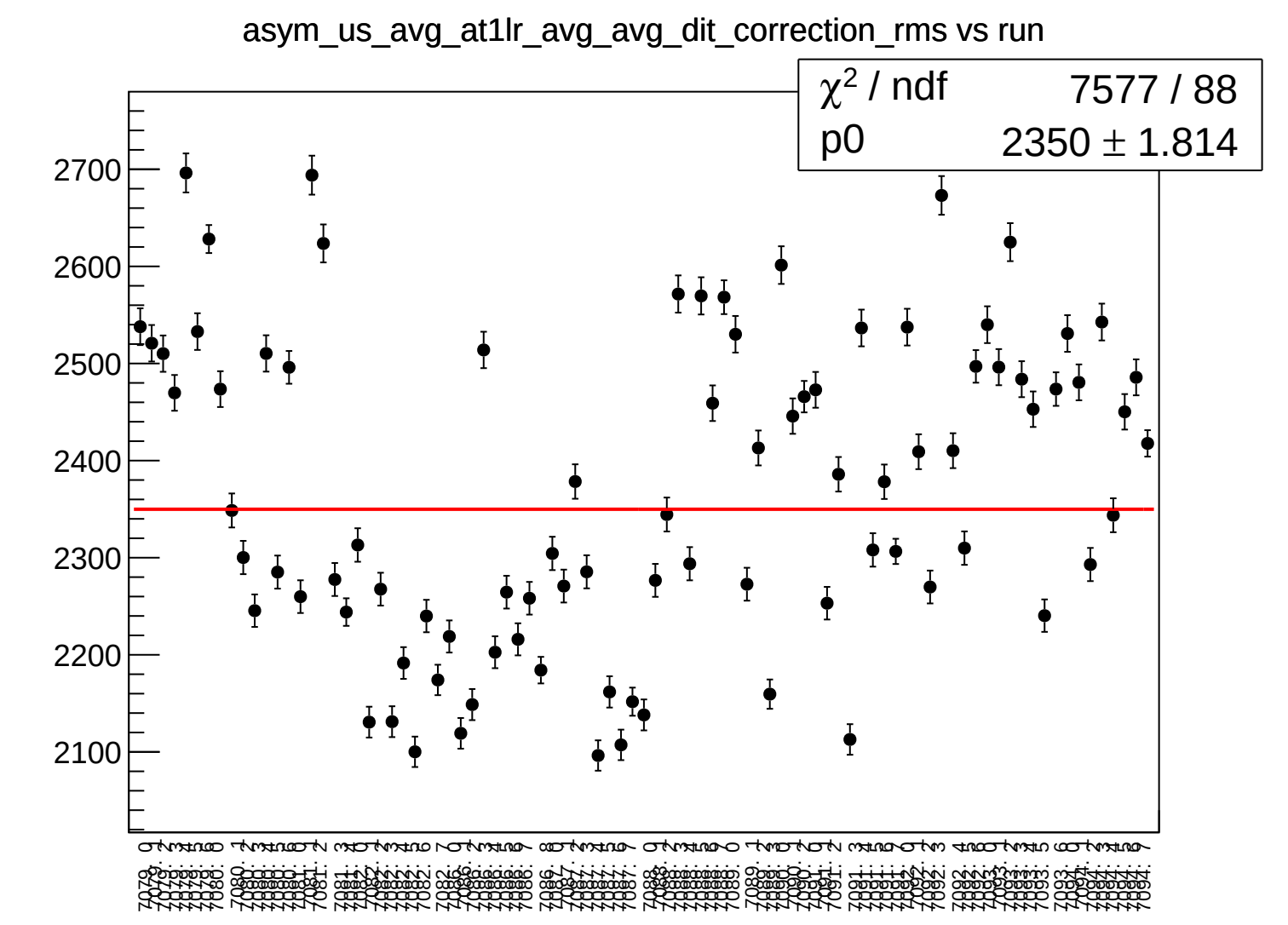

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 93.24 / 88
p0 4016 ± 2378
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −20.01
Std Dev 0
2
1
0
−1
−2

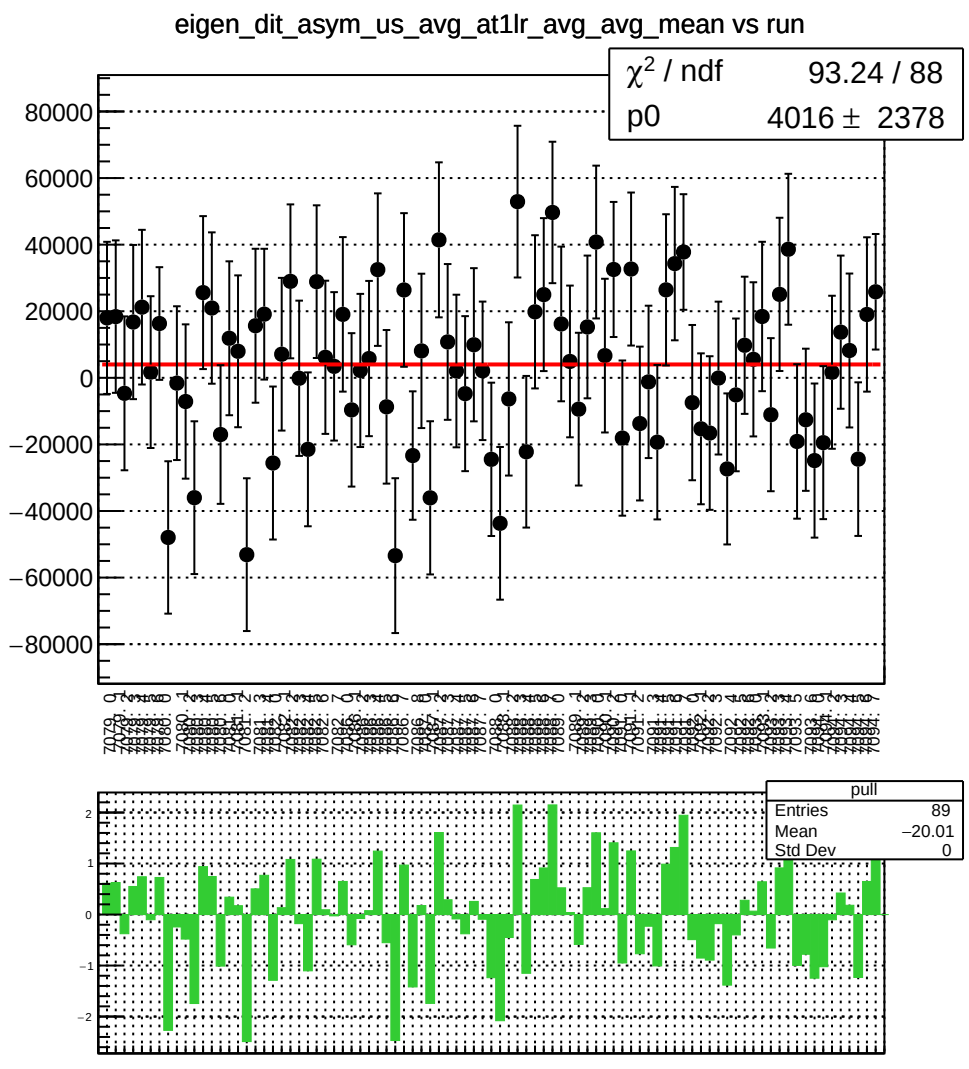

pull1D
Entries 89
Mean −0.01662
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

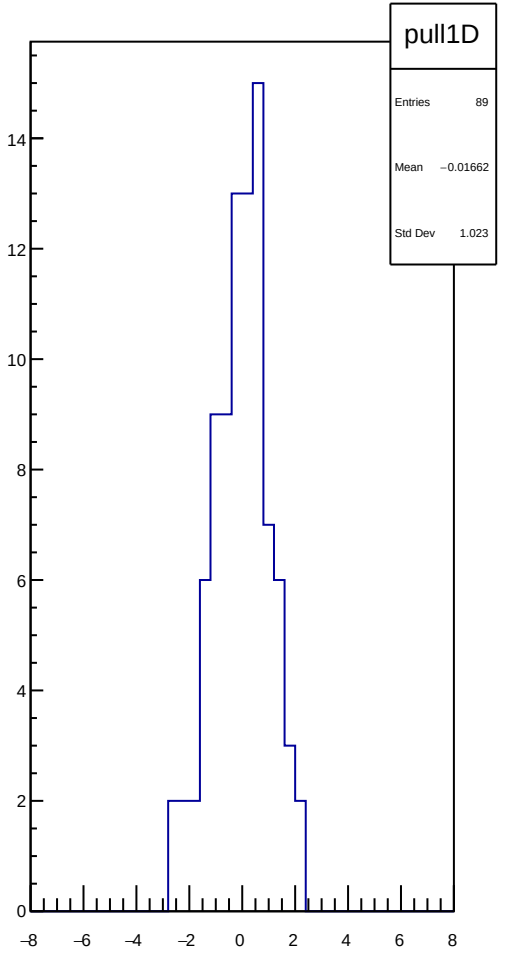

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 92.7 / 88
p0 2183 ± 1.681
2240
2220
2200
2180
2160
2140
2120

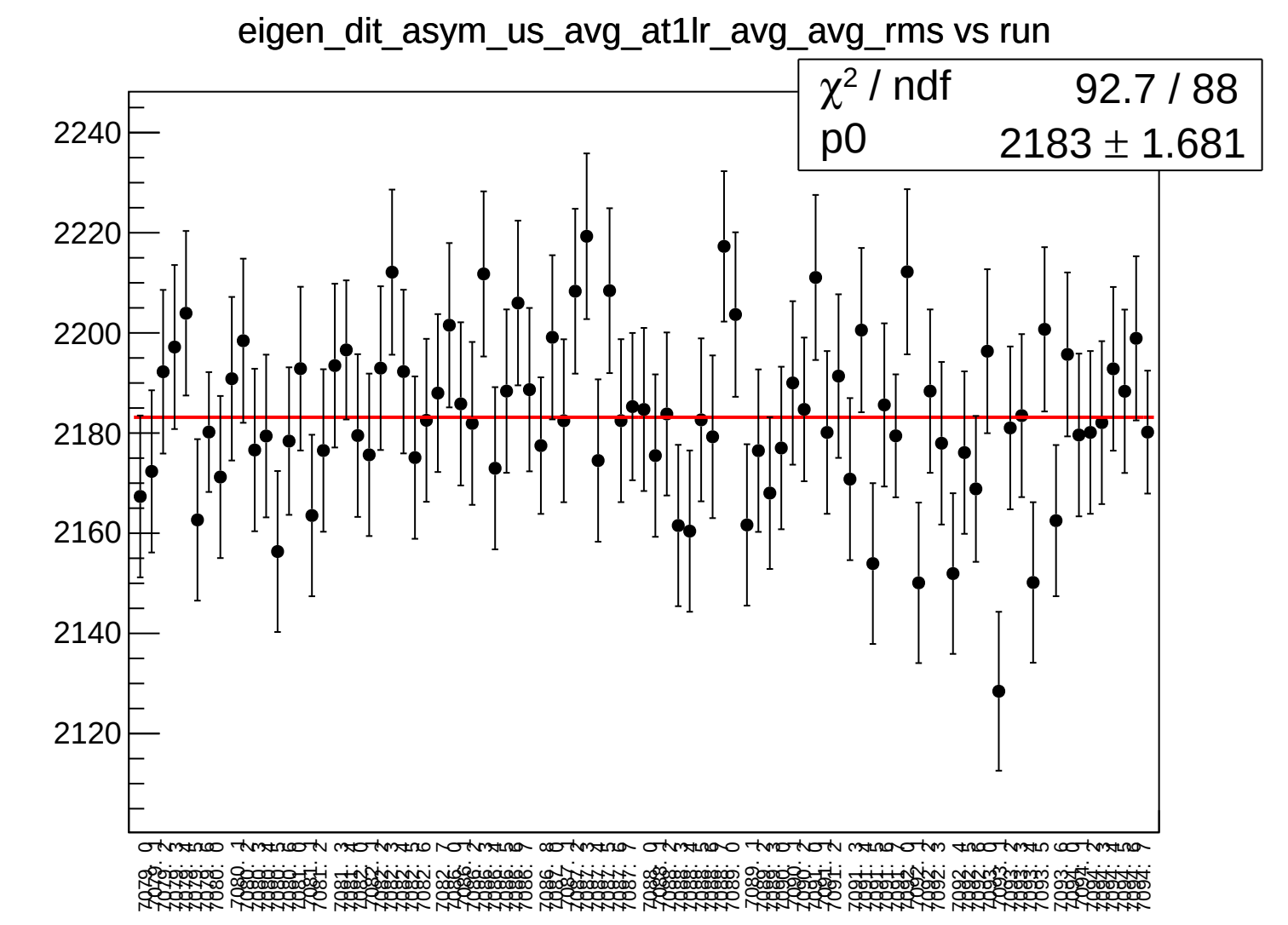

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 68.05 / 88
p0 −728.4 ± 2565
pull
Entries 89
Mean −619.6
Std Dev 0

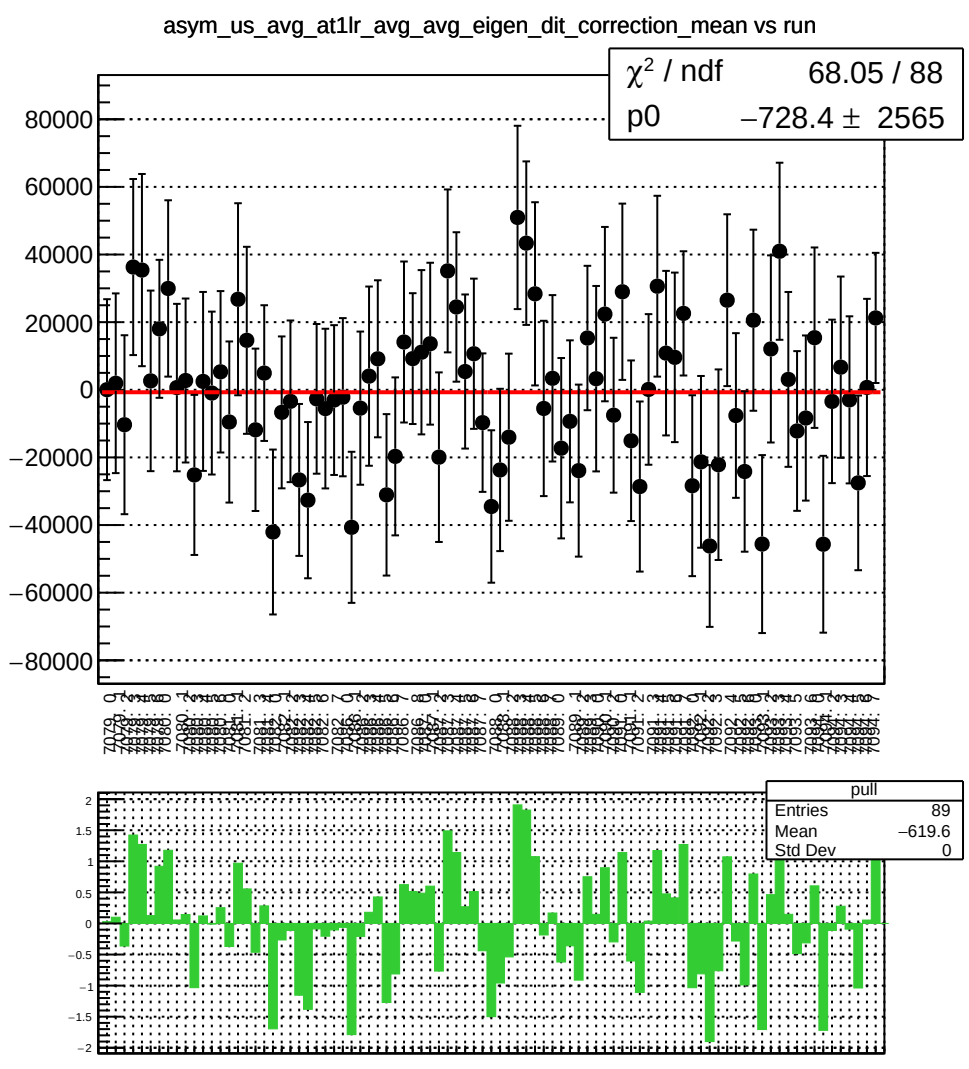

pull1D
Entries 89
Mean 0.002014
Std Dev 0.8744

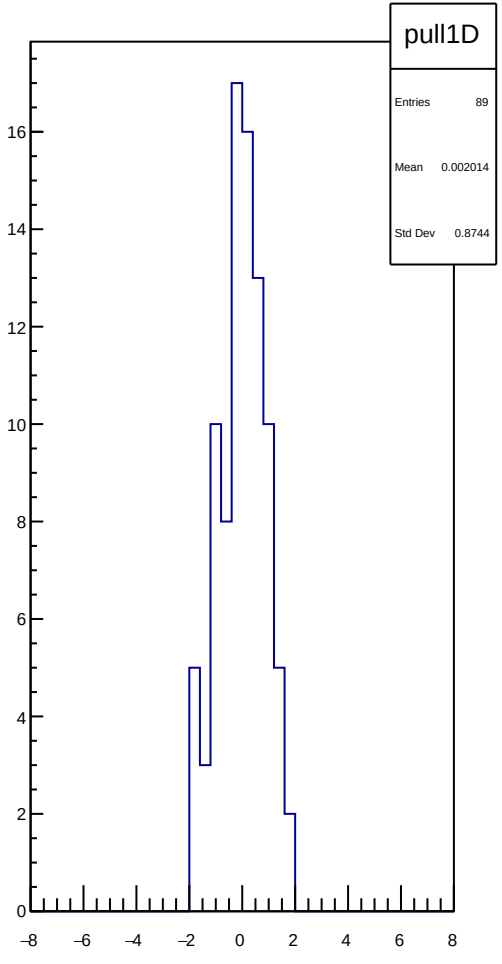

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 7577 / 88
p0 2350 ± 1.814
2700
2600
2500
2400
2300
2200
2100

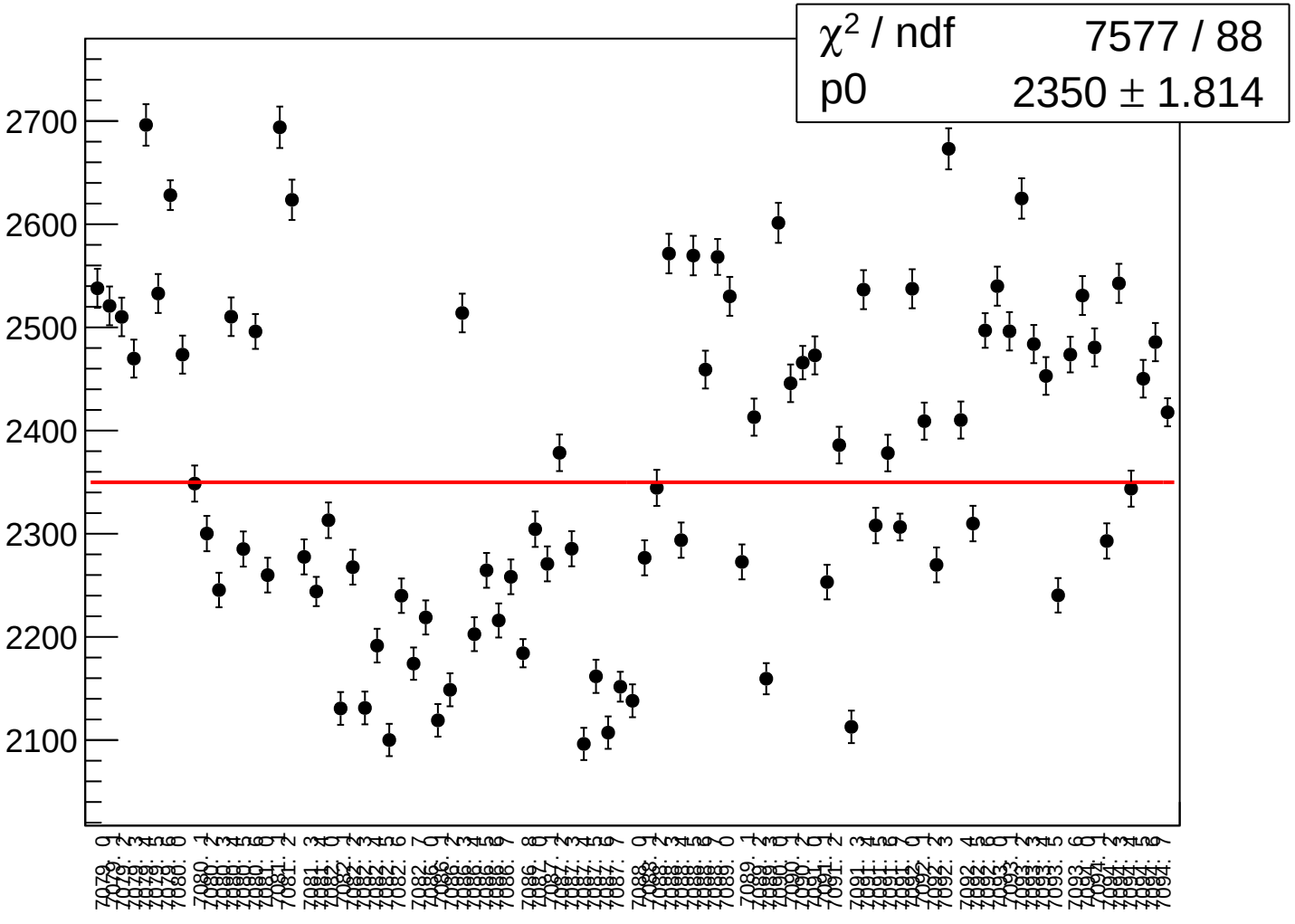

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 93.24 / 88
p0 4016 ± 2378
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −20.01
Std Dev 0
2
1
0
−1
−2

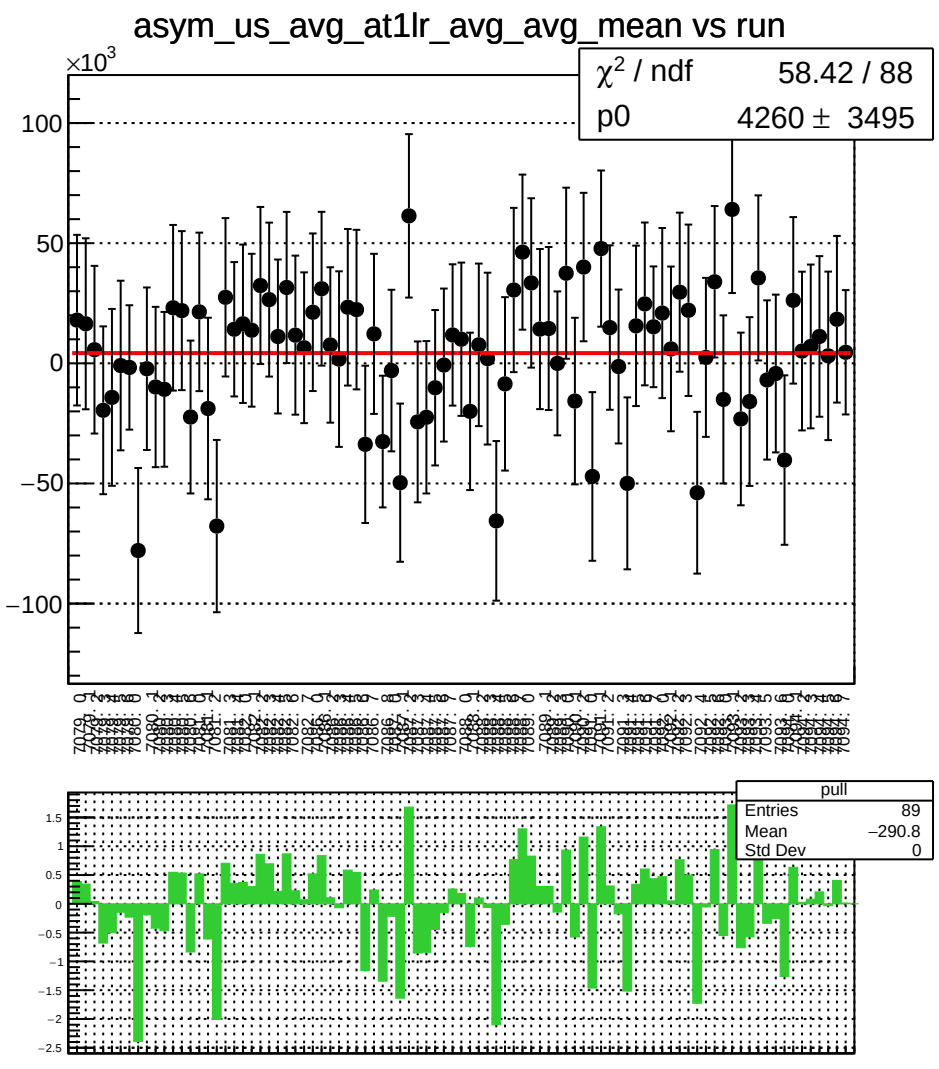

pull1D
Entries 89
Mean −0.01662
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

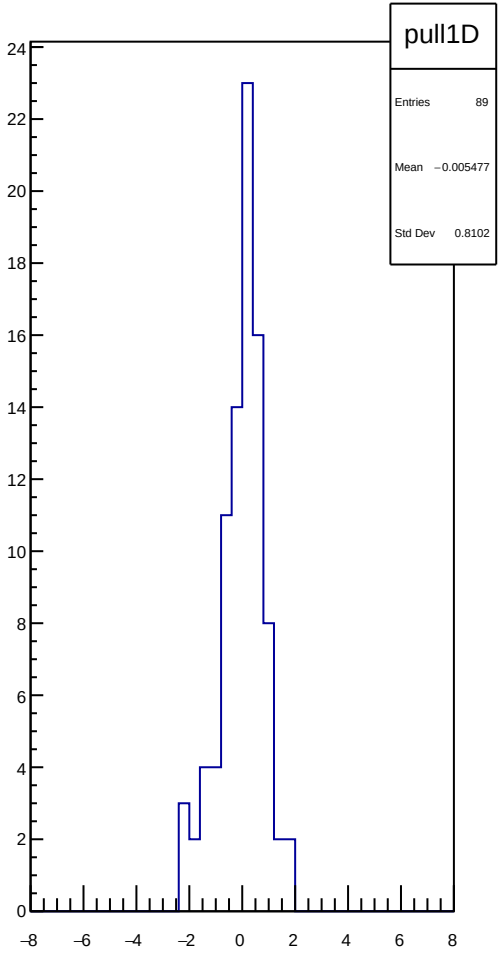

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 92.7 / 88
p0 2183 ± 1.681
2240
2220
2200
2180
2160
2140
2120

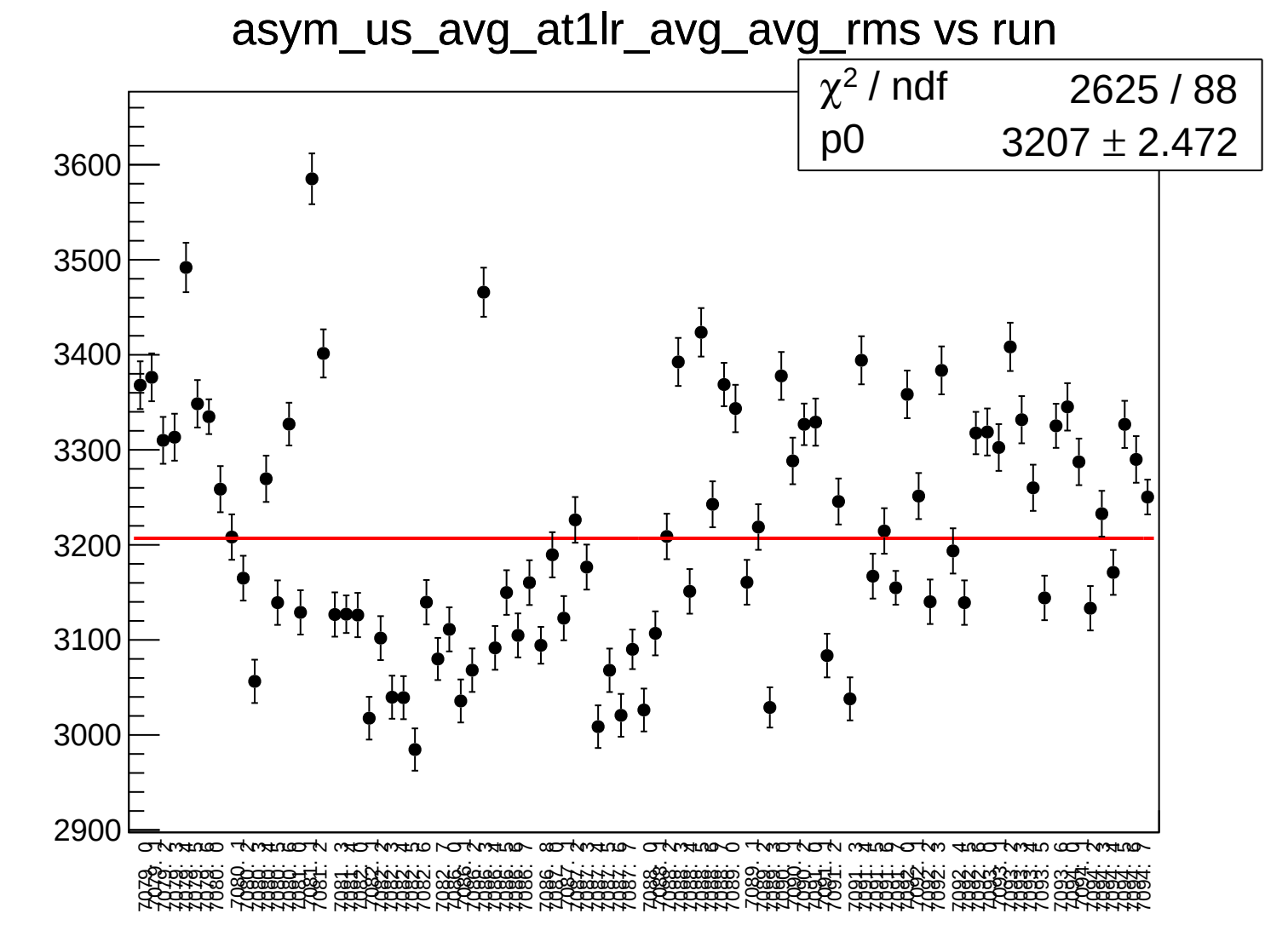

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.05 / 88
p0 −728.4 ± 2565
pull
Entries 89
Mean −619.6
Std Dev 0

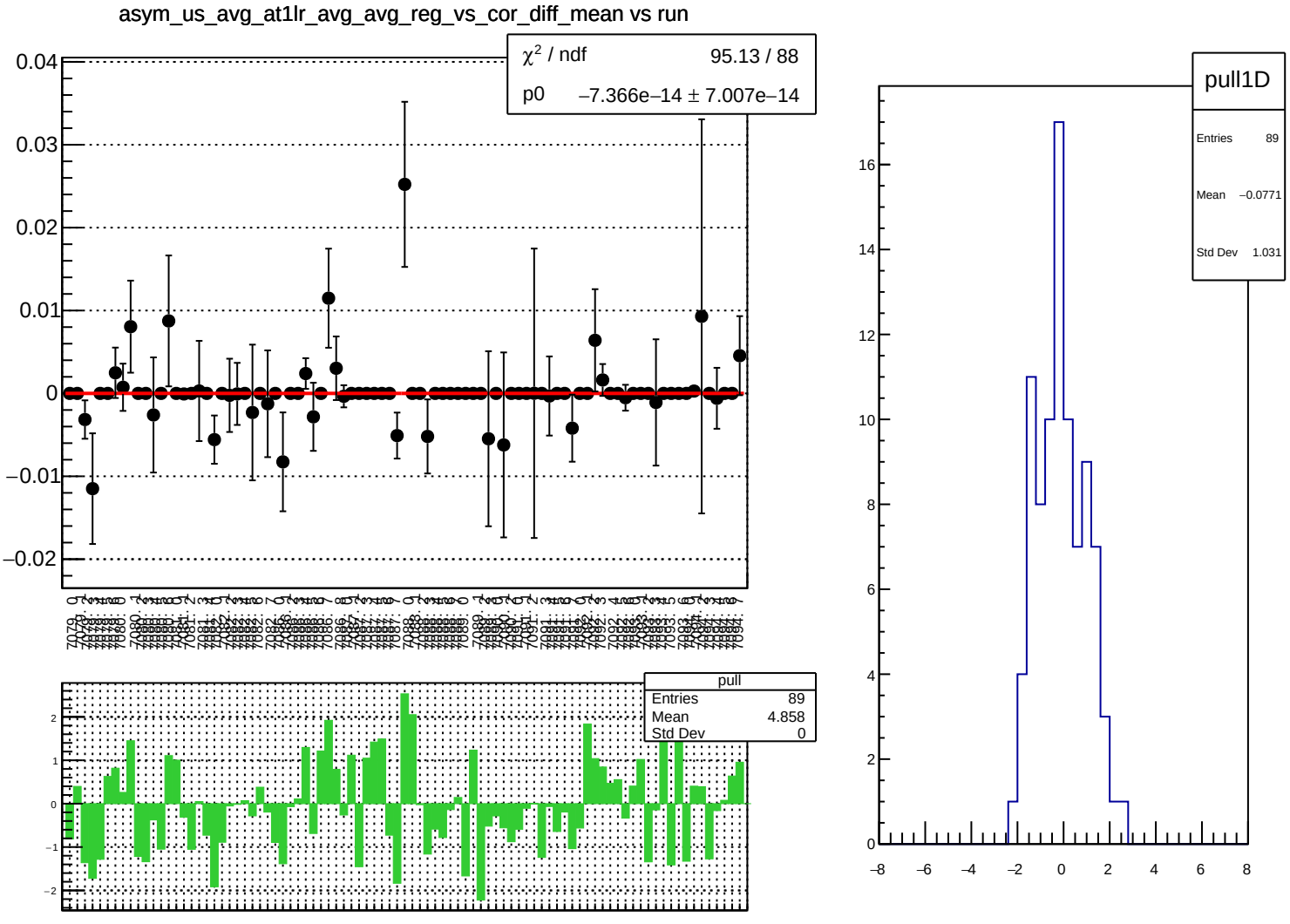

pull1D
Entries 89
Mean 0.002014
Std Dev 0.8744

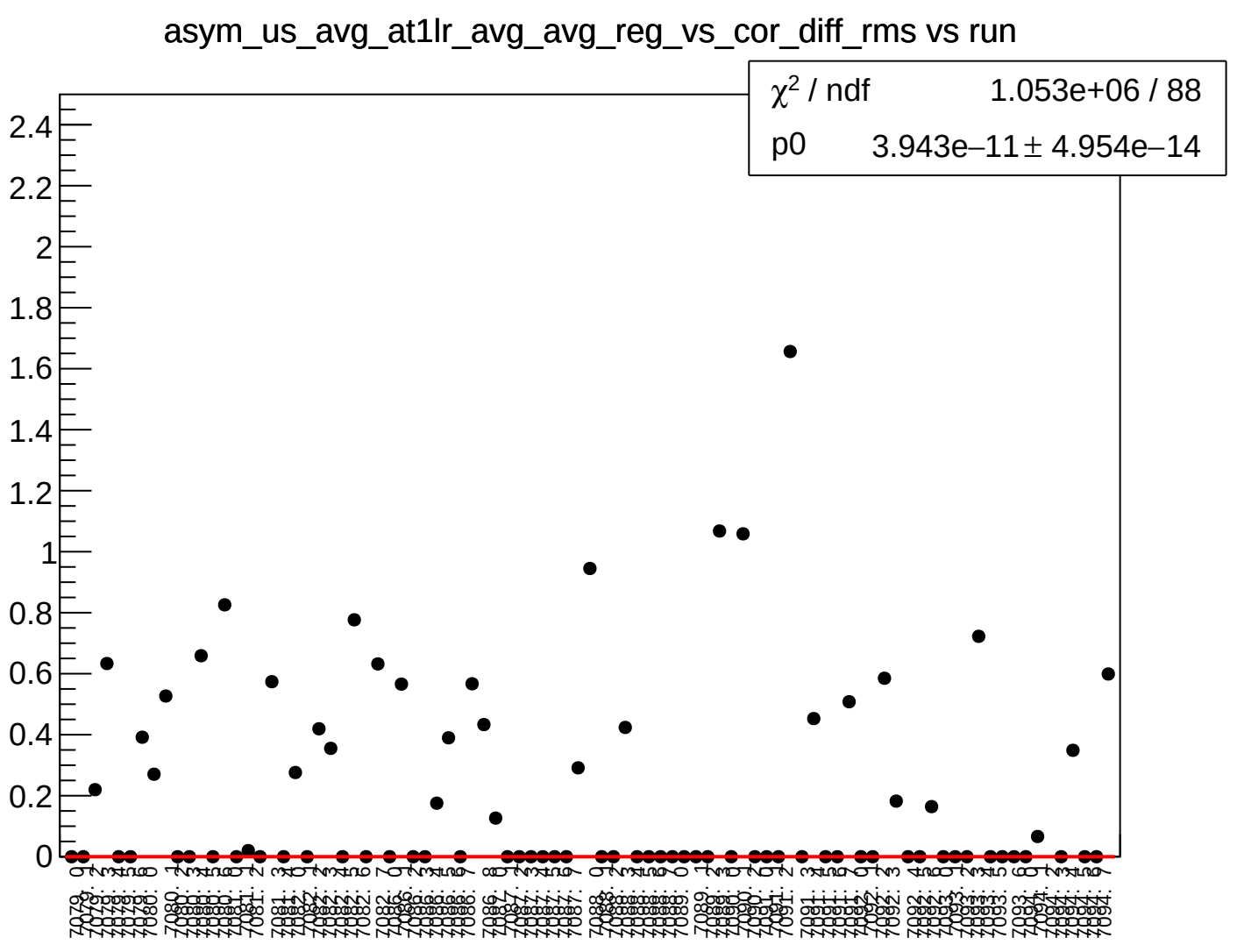

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7577 / 88
p0 2350 ± 1.814
2700
2600
2500
2400
2300
2200
2100

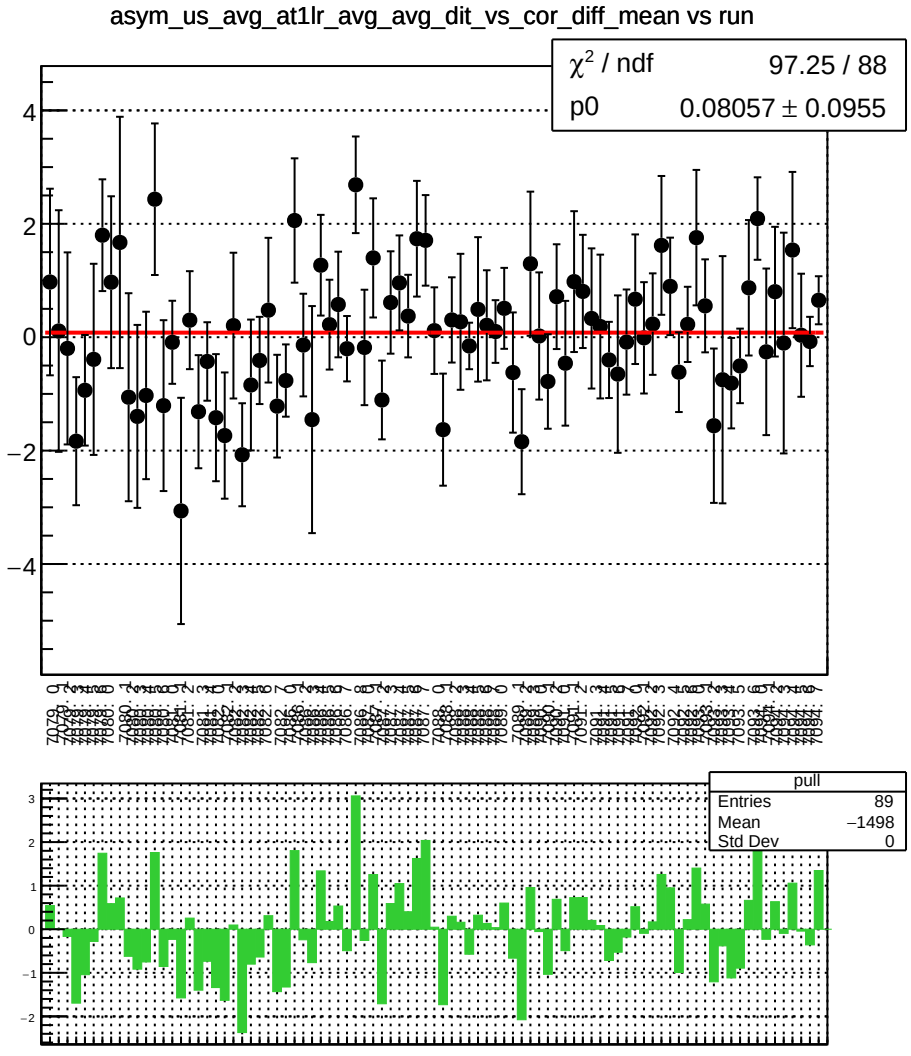

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 58.42 / 88
p0 4260 ± 3495
100
50
0
−50
−100
pull
Entries 89
Mean −290.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

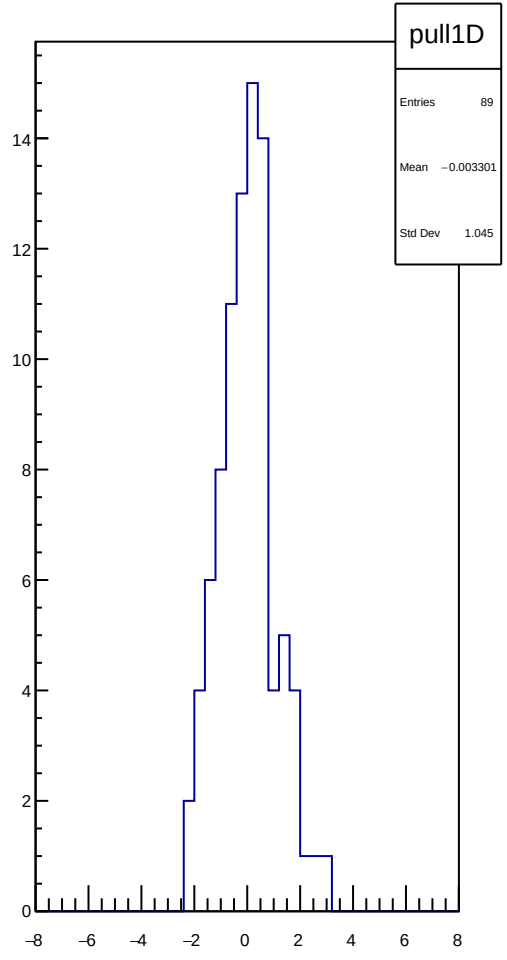

pull1D
Entries 89
Mean −0.005477
Std Dev 0.8102
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

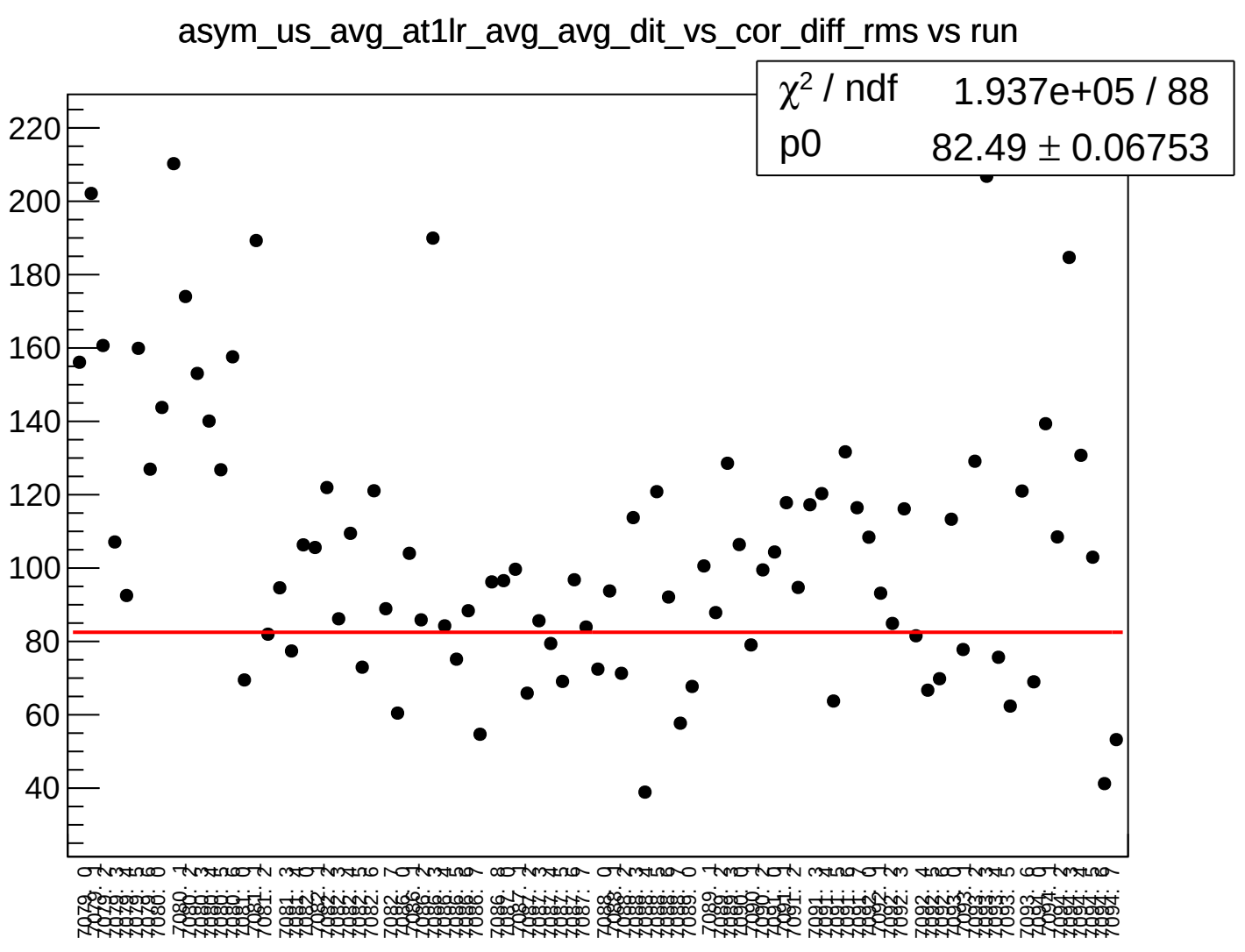

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2625 / 88
p0 3207 ± 2.472
3600
3500
3400
3300
3200
3100
3000
2900

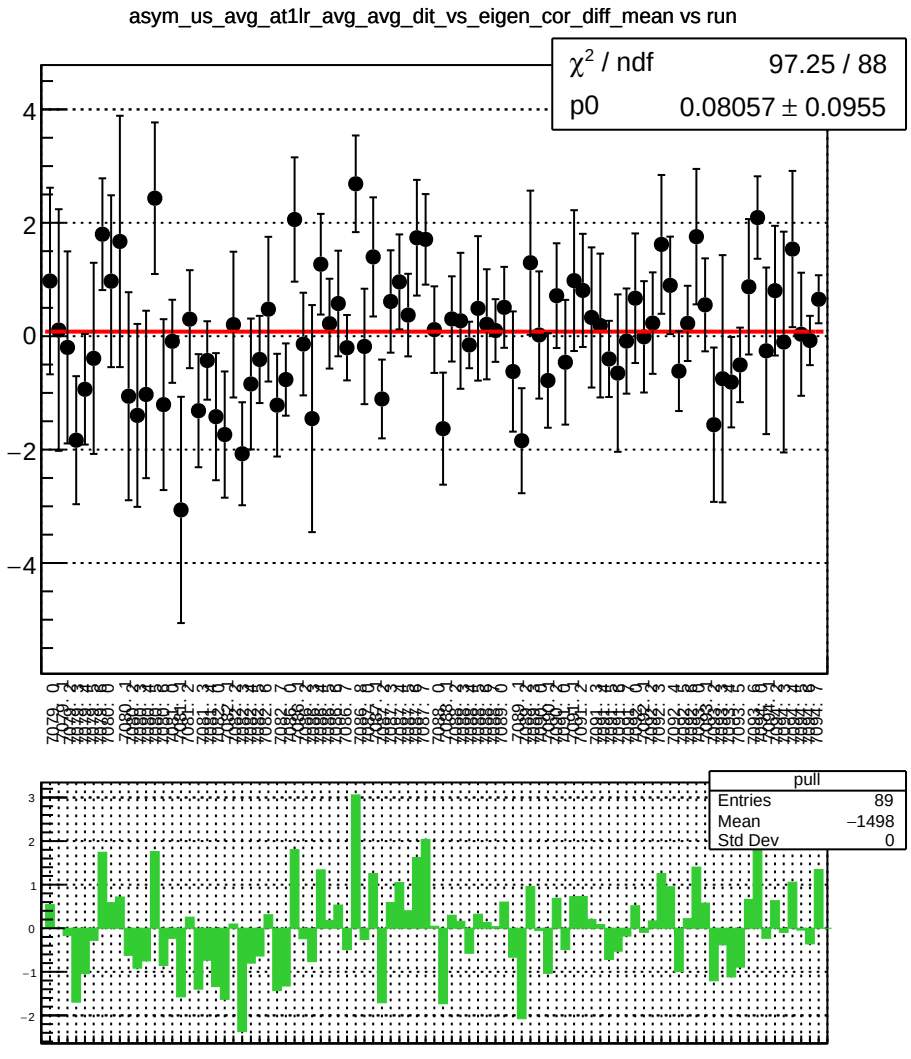

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.13 / 88
p0 −7.366e−14 ± 7.007e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 4.858
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0771
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

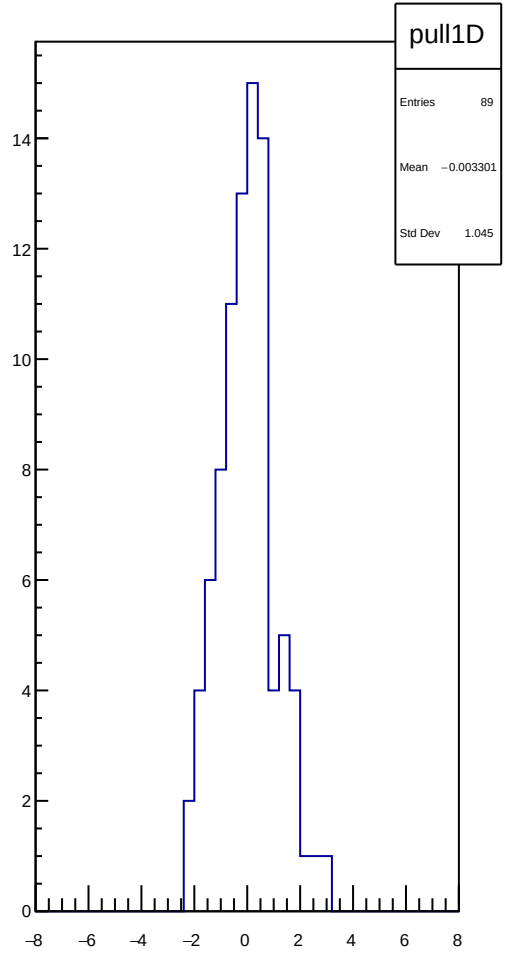

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.053e+06 / 88
p0 3.943e−11 ± 4.954e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

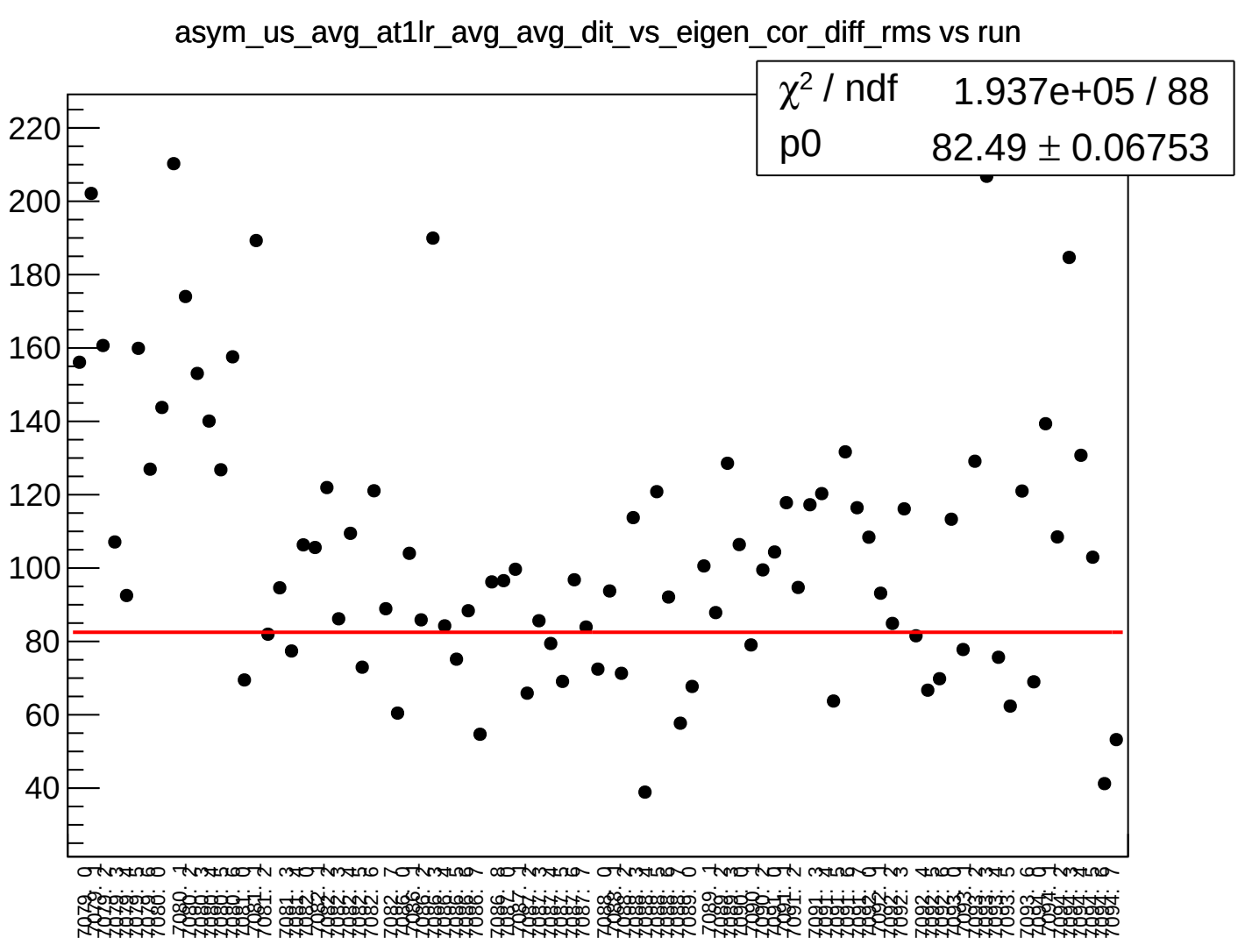

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.25 / 88
p0 0.08057 ± 0.0955
pull
Entries 89
Mean −1498
Std Dev 0

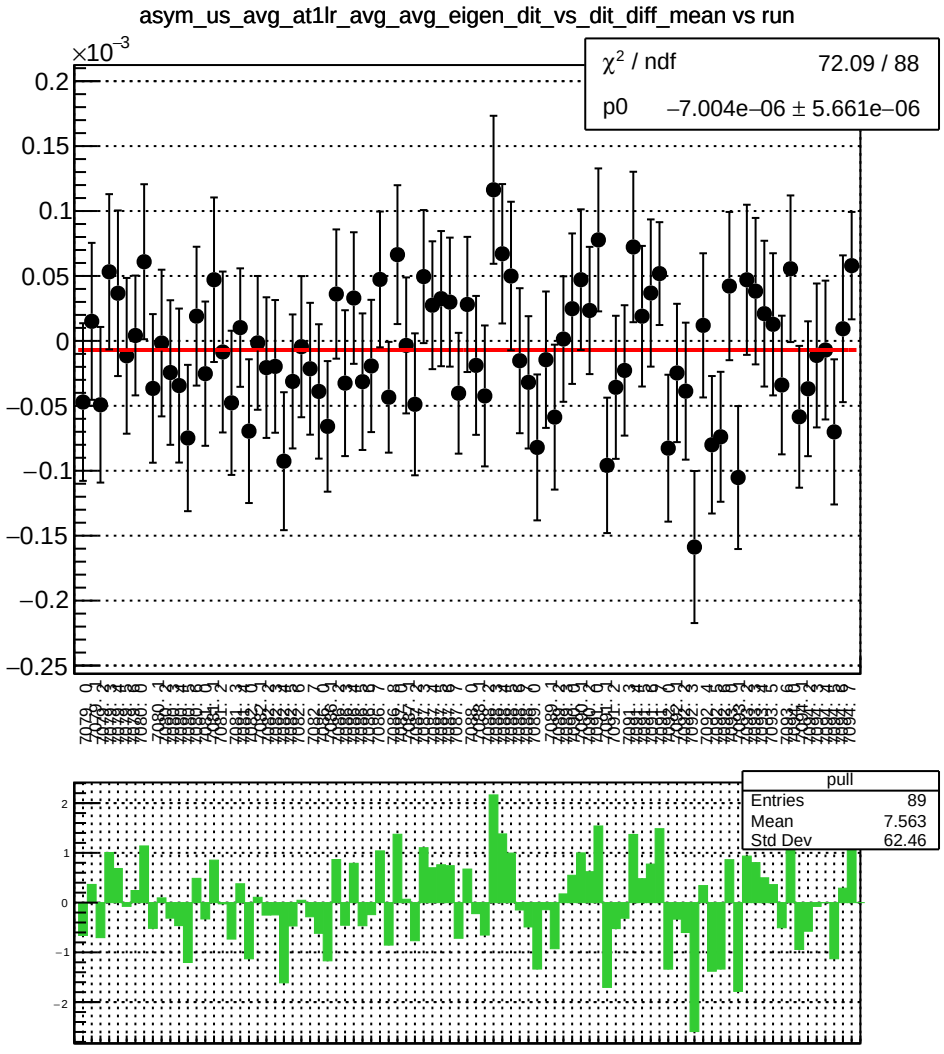

pull1D
Entries 89
Mean −0.003301
Std Dev 1.045

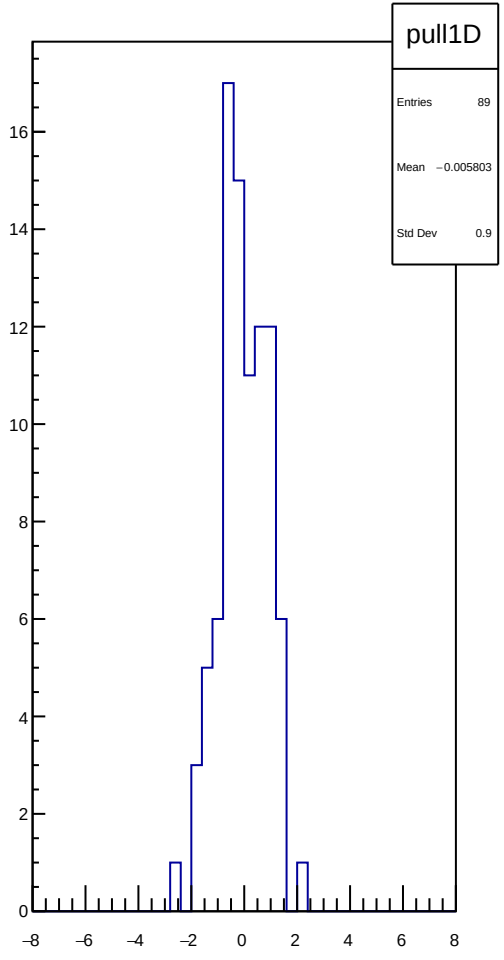

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 88
p0 82.49 ± 0.06753
220
200
180
160
140
120
100
80
60
40

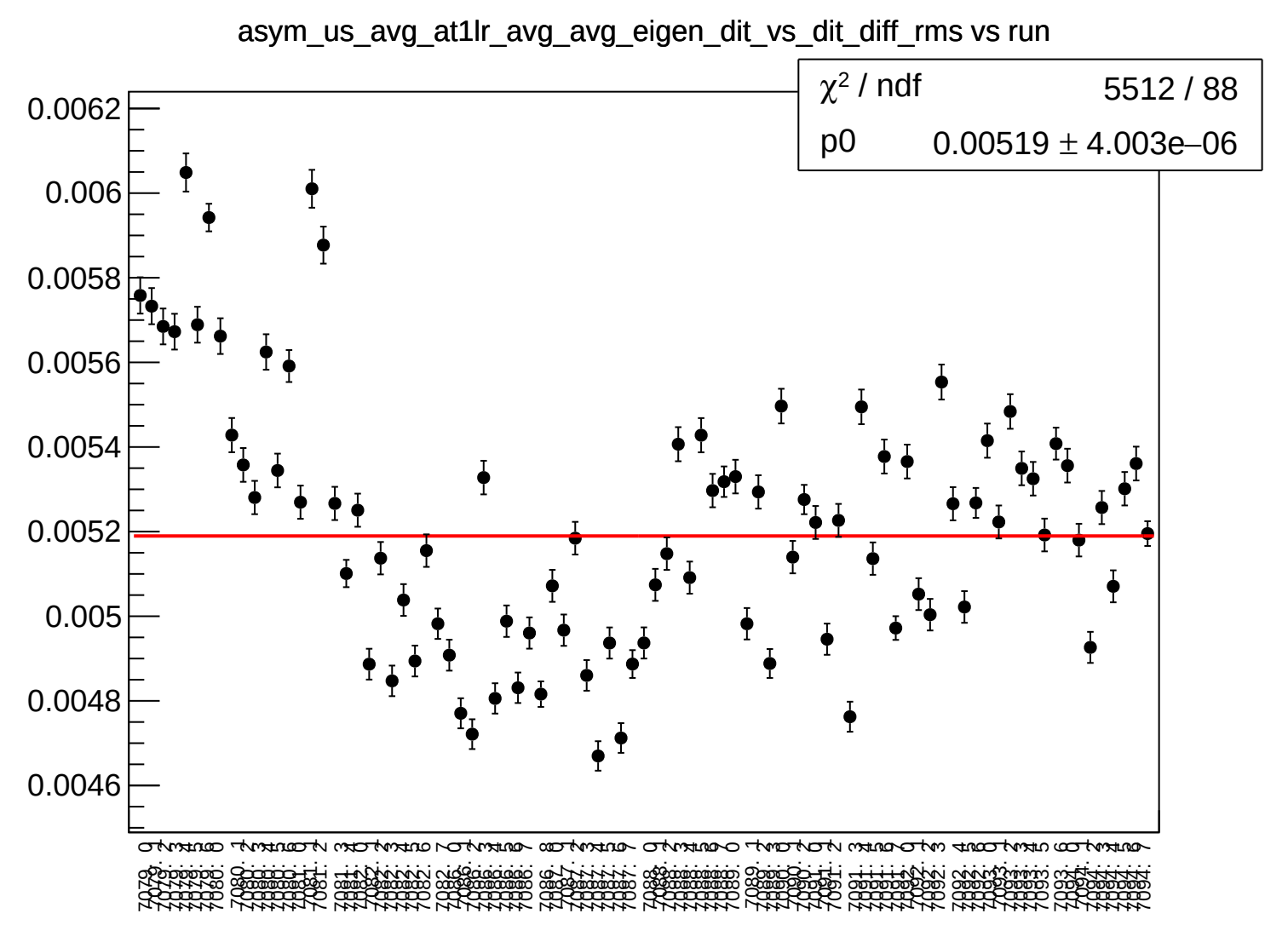

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.25 / 88
p0 0.08057 ± 0.0955
pull
Entries 89
Mean −1498
Std Dev 0

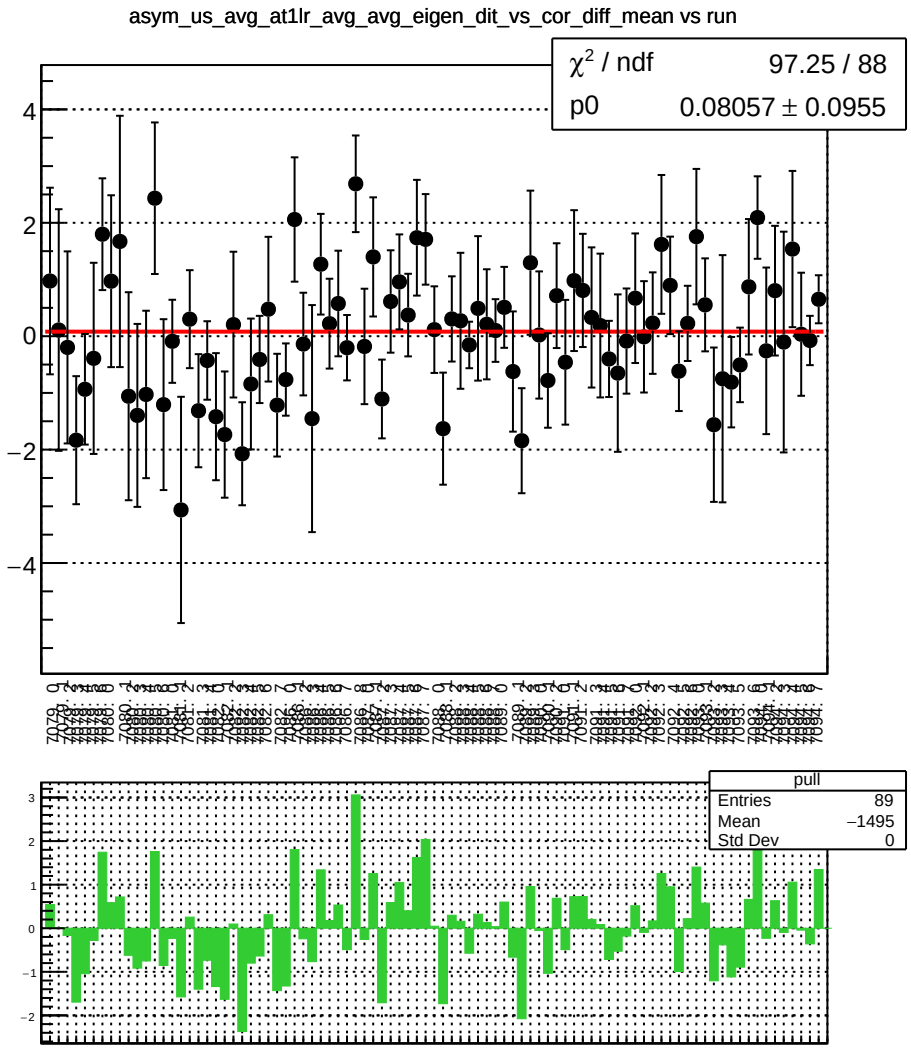

pull1D
Entries 89
Mean −0.003301
Std Dev 1.045

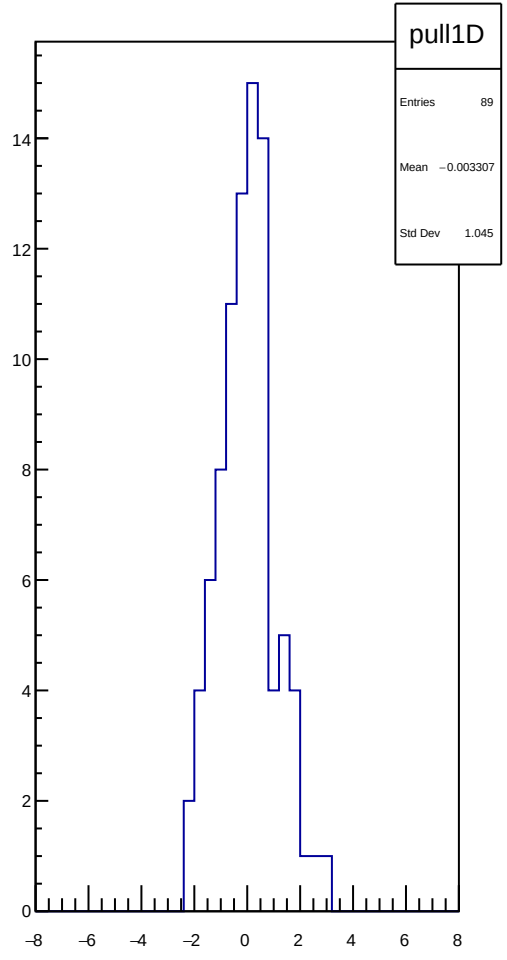

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 88
p0 82.49 ± 0.06753
220
200
180
160
140
120
100
80
60
40

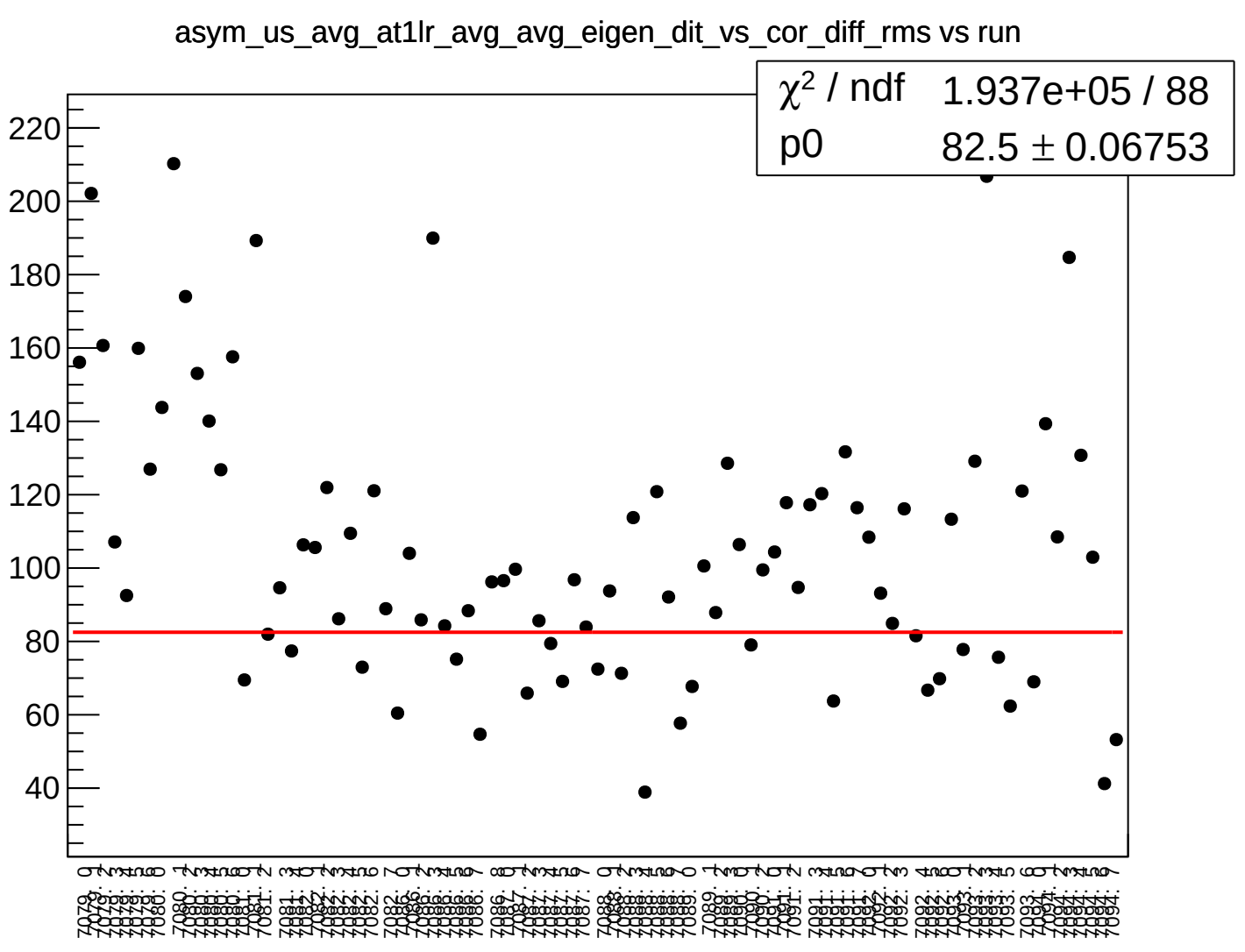

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.09 / 88
p0 −7.004e−06 ± 5.661e−06
pull
Entries 89
Mean 7.563
Std Dev 62.46

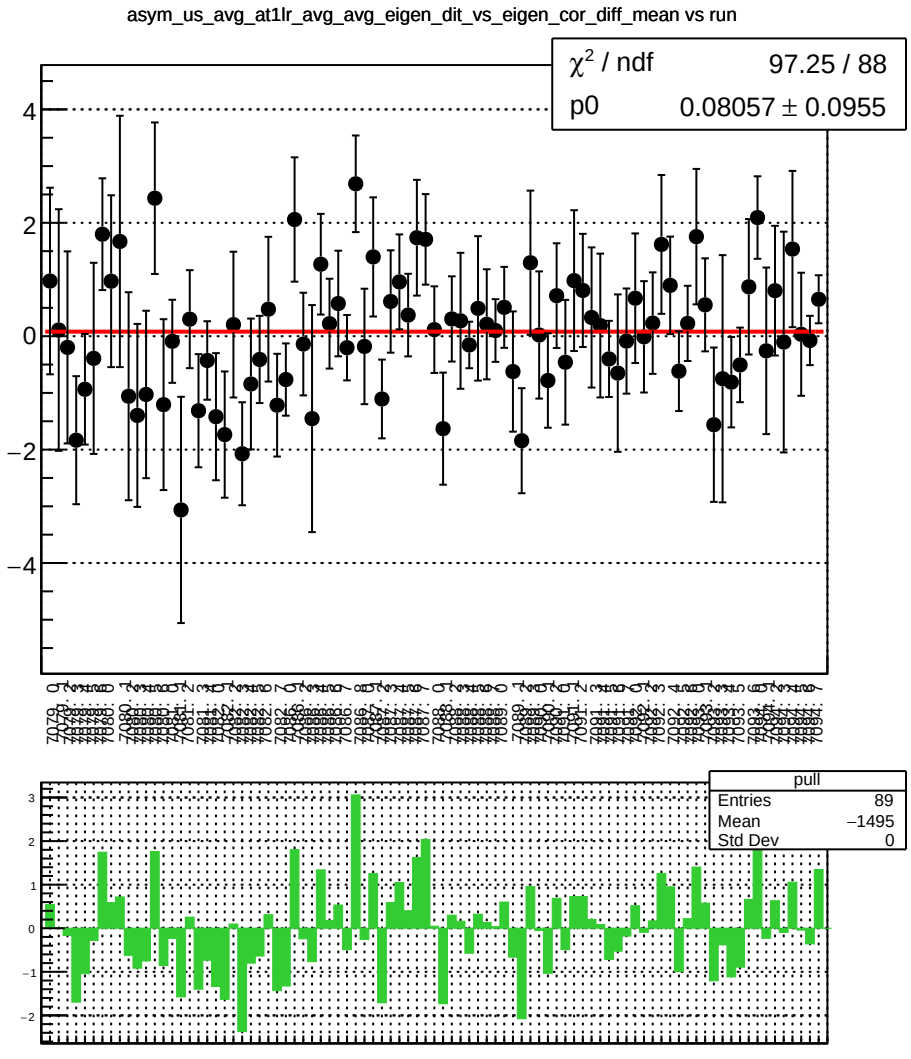

pull1D
Entries 89
Mean −0.005803
Std Dev 0.9

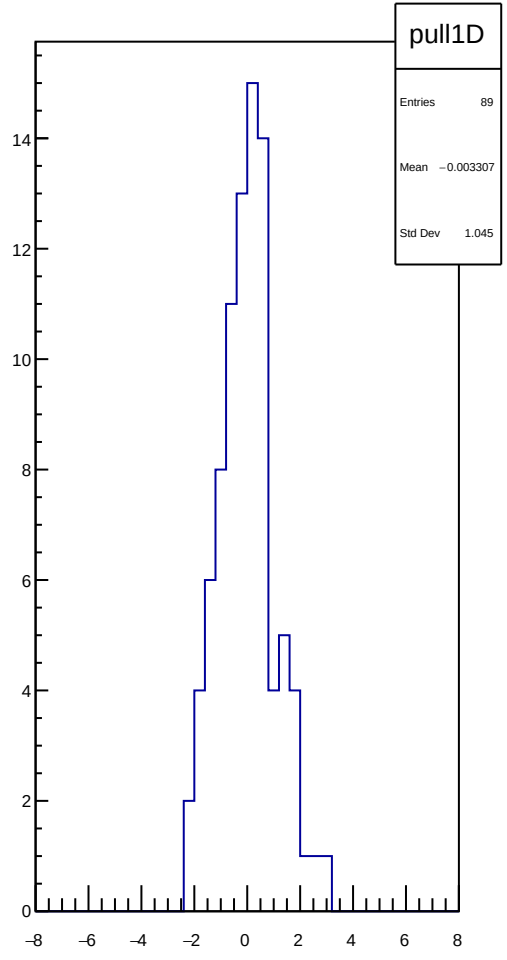

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5512 / 88
p0 0.00519 ± 4.003e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046

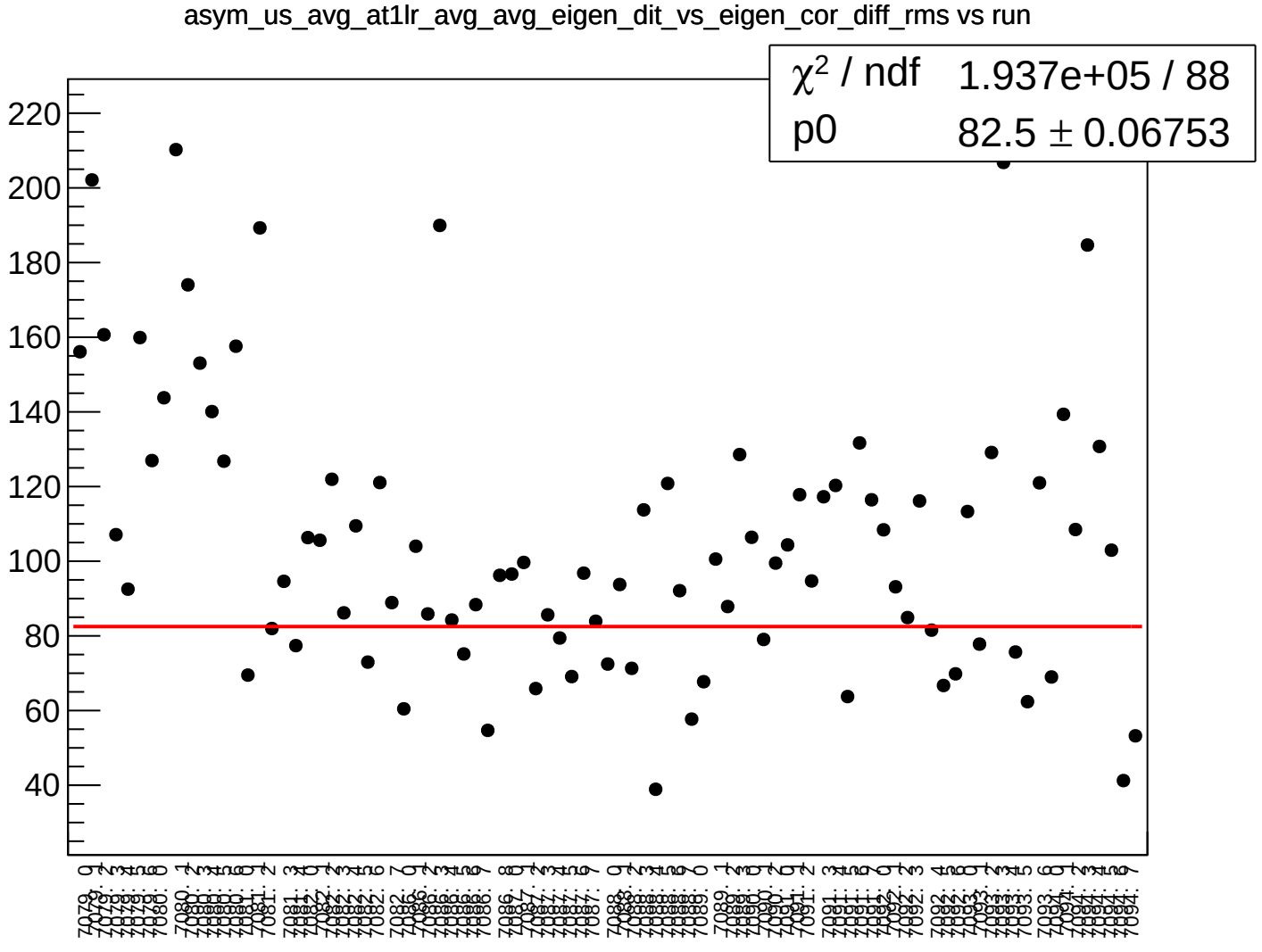

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.25 / 88
p0 0.08057 ± 0.0955
pull
Entries 89
Mean −1495
Std Dev 0

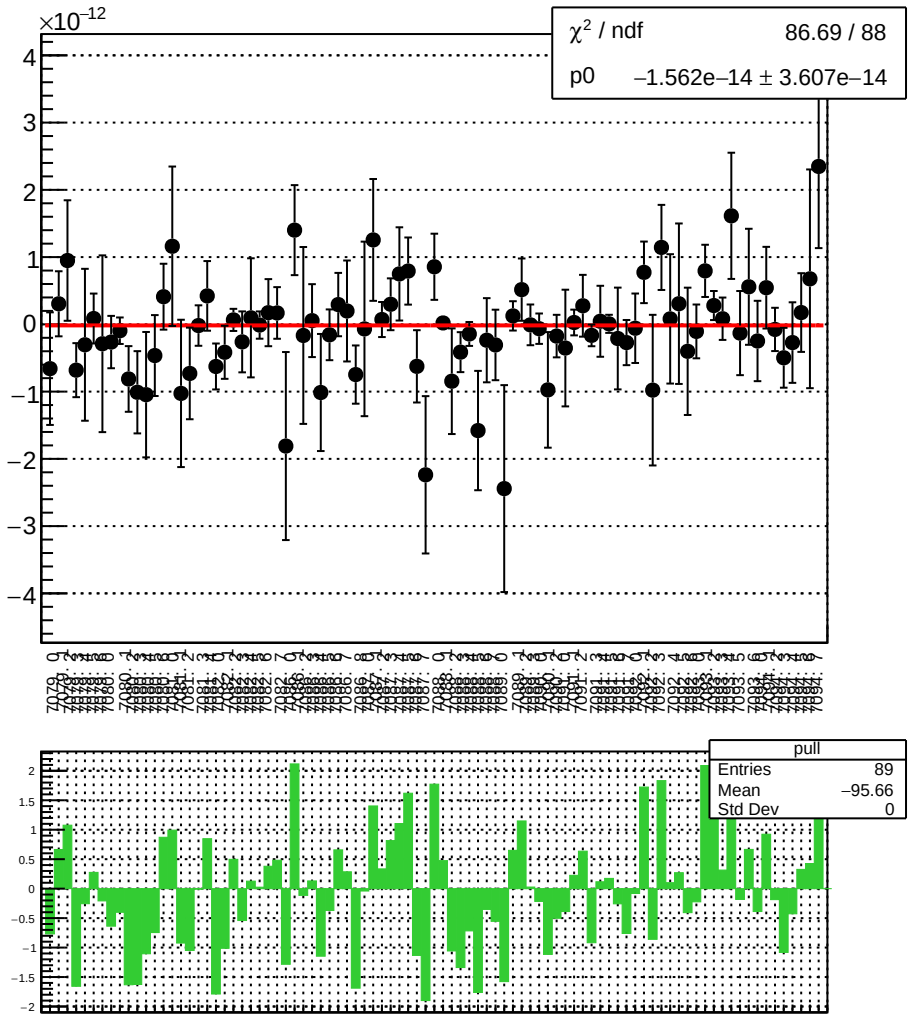

pull1D
Entries 89
Mean −0.003307
Std Dev 1.045

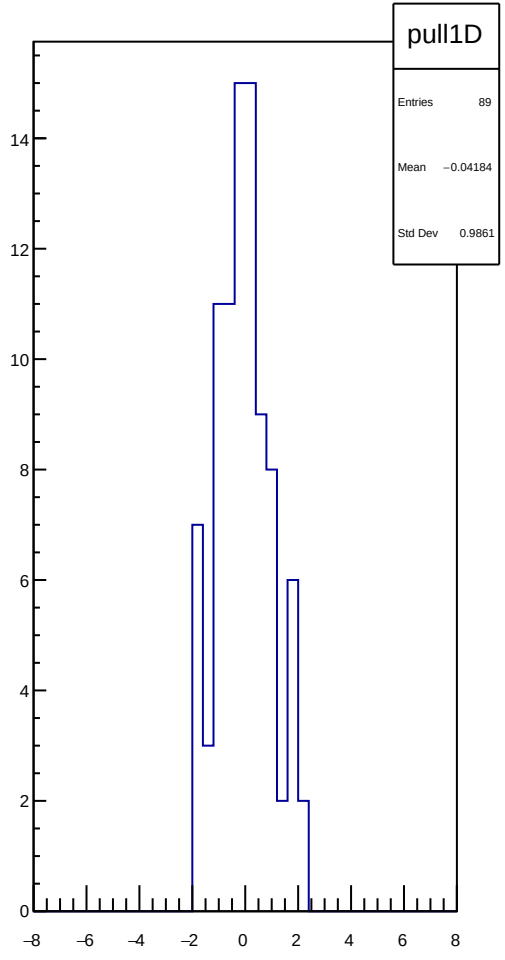

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 88
p0 82.5 ± 0.06753
220
200
180
160
140
120
100
80
60
40

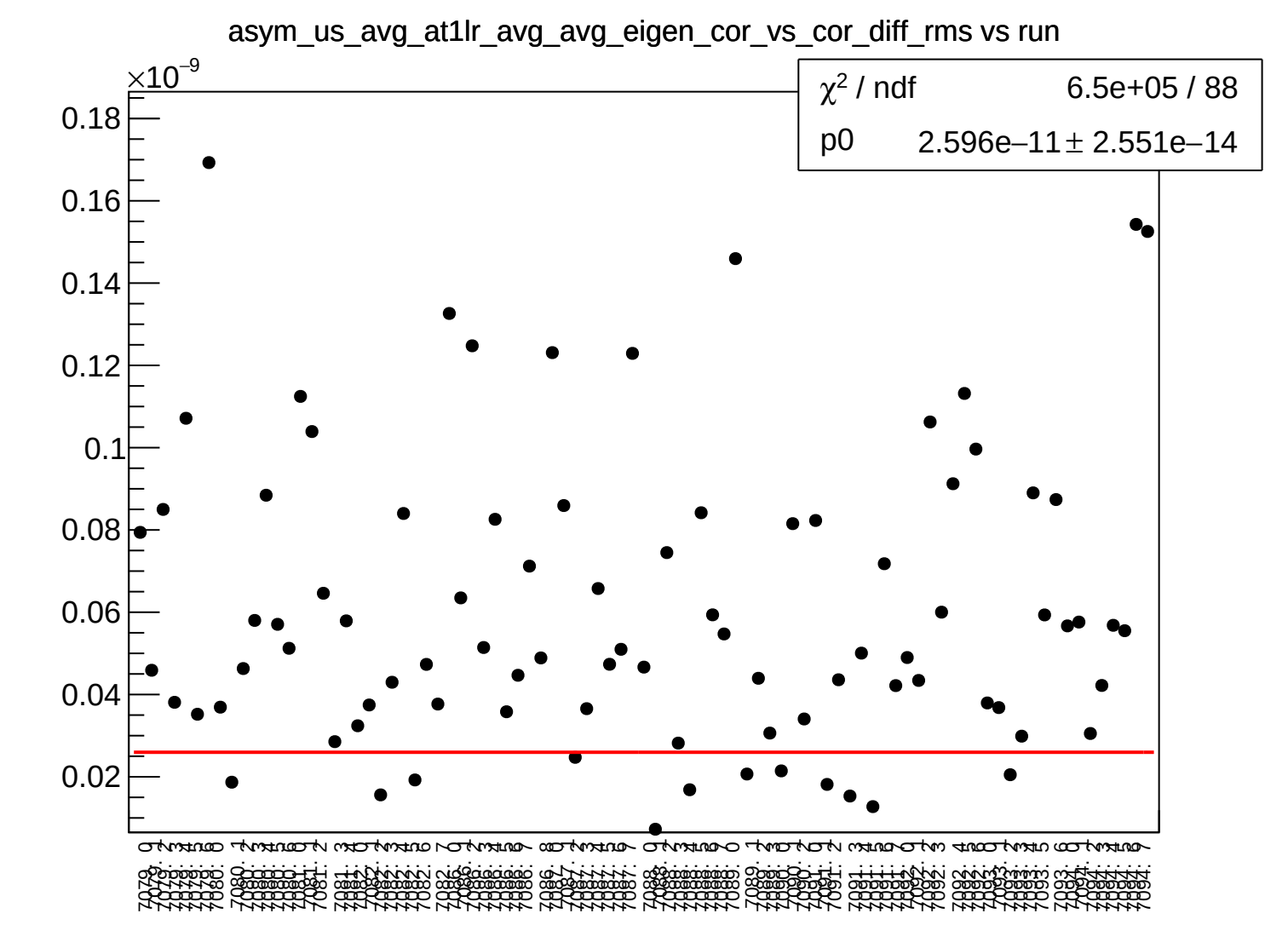

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.25 / 88
p0 0.08057 ± 0.0955
pull
Entries 89
Mean −1495
Std Dev 0

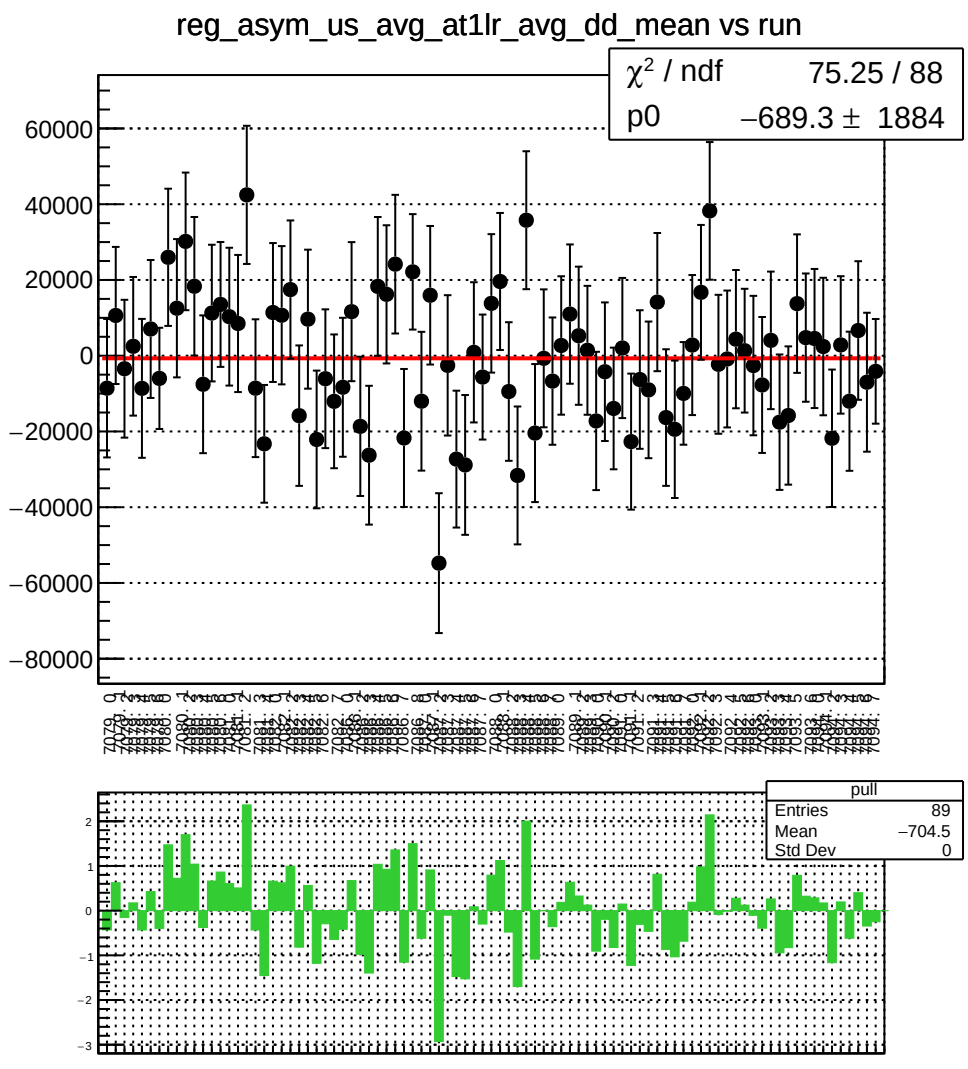

pull1D
Entries 89
Mean −0.003307
Std Dev 1.045

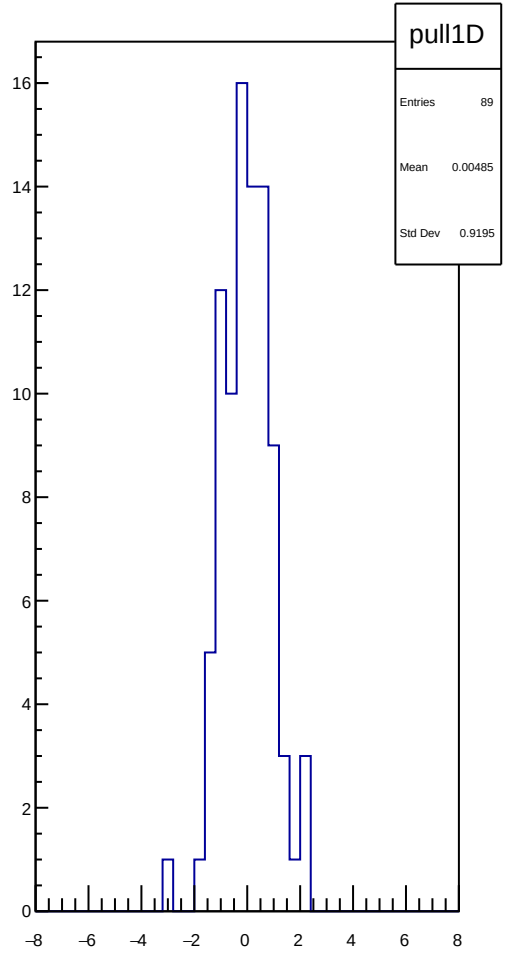

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 88
p0 82.5 ± 0.06753
220
200
180
160
140
120
100
80
60
40

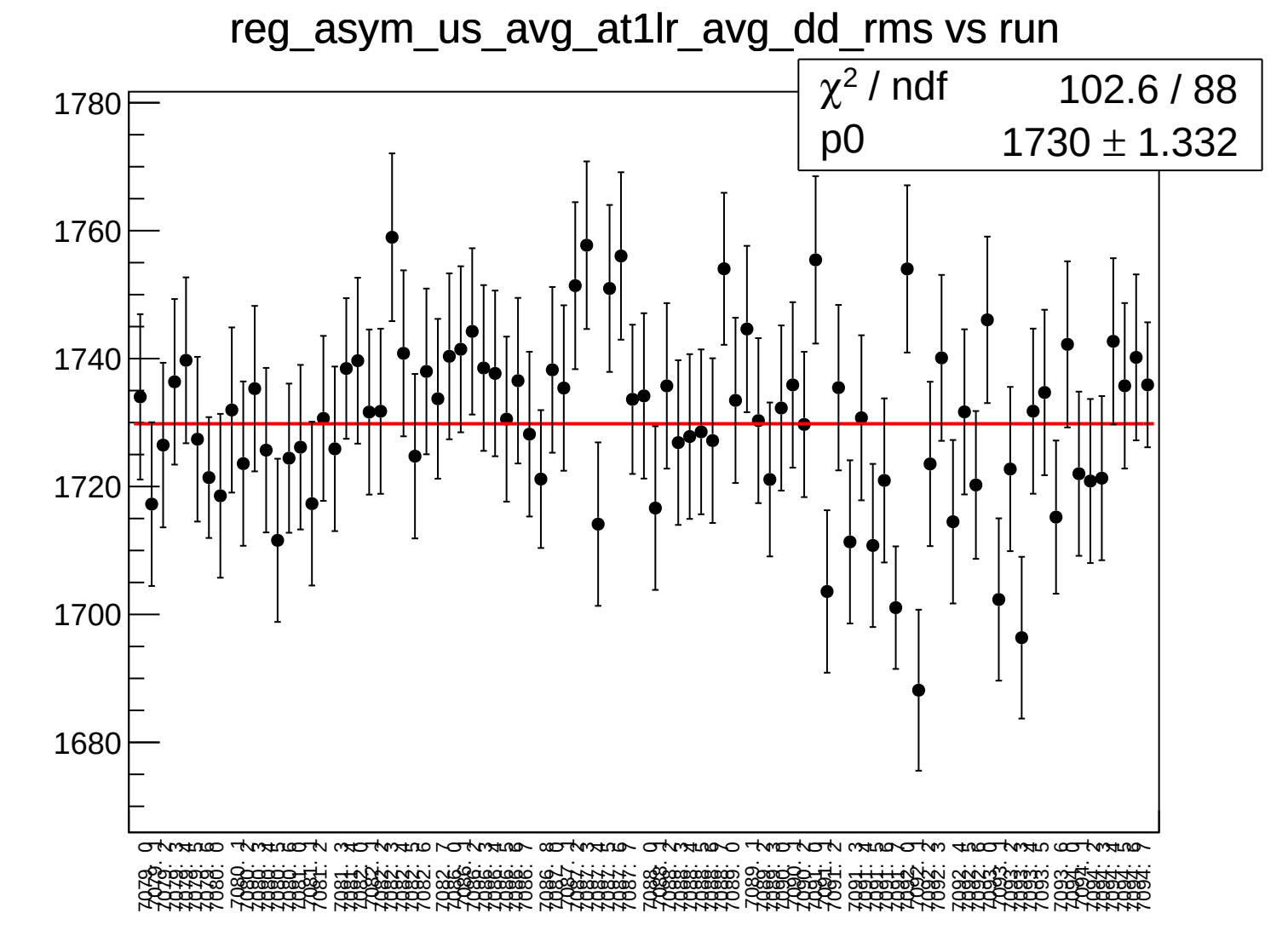

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.69 / 88
p0 −1.562e−14 ± 3.607e−14
pull
Entries 89
Mean −95.66
Std Dev 0

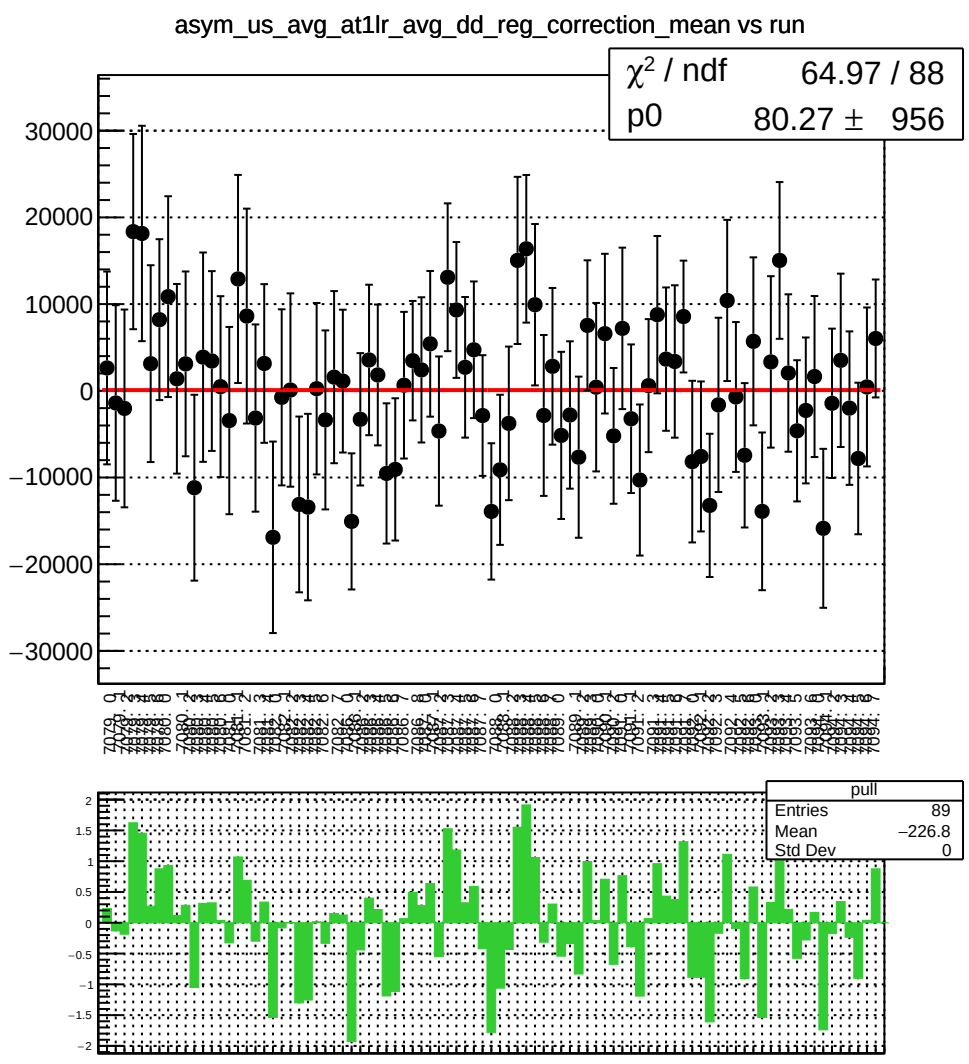

pull1D
Entries 89
Mean −0.04184
Std Dev 0.9861

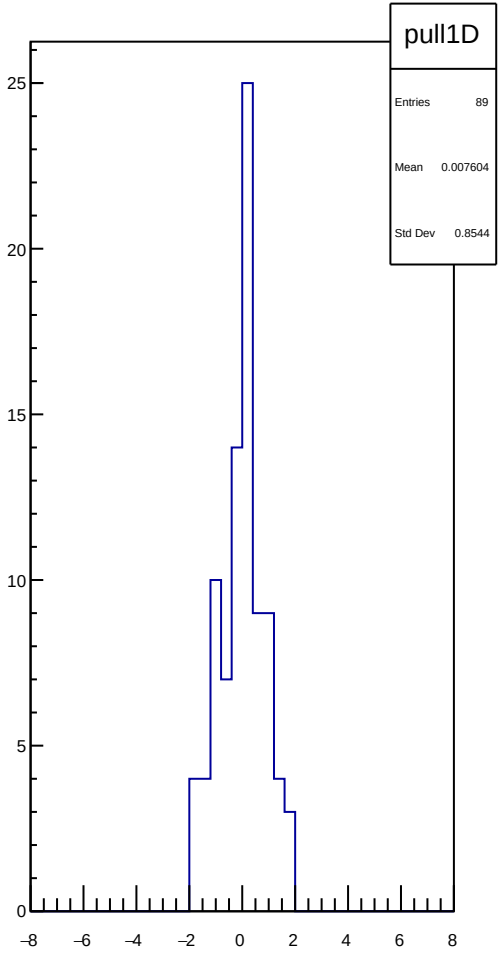

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.5e+05 / 88
p0 2.596e−11 ± 2.551e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

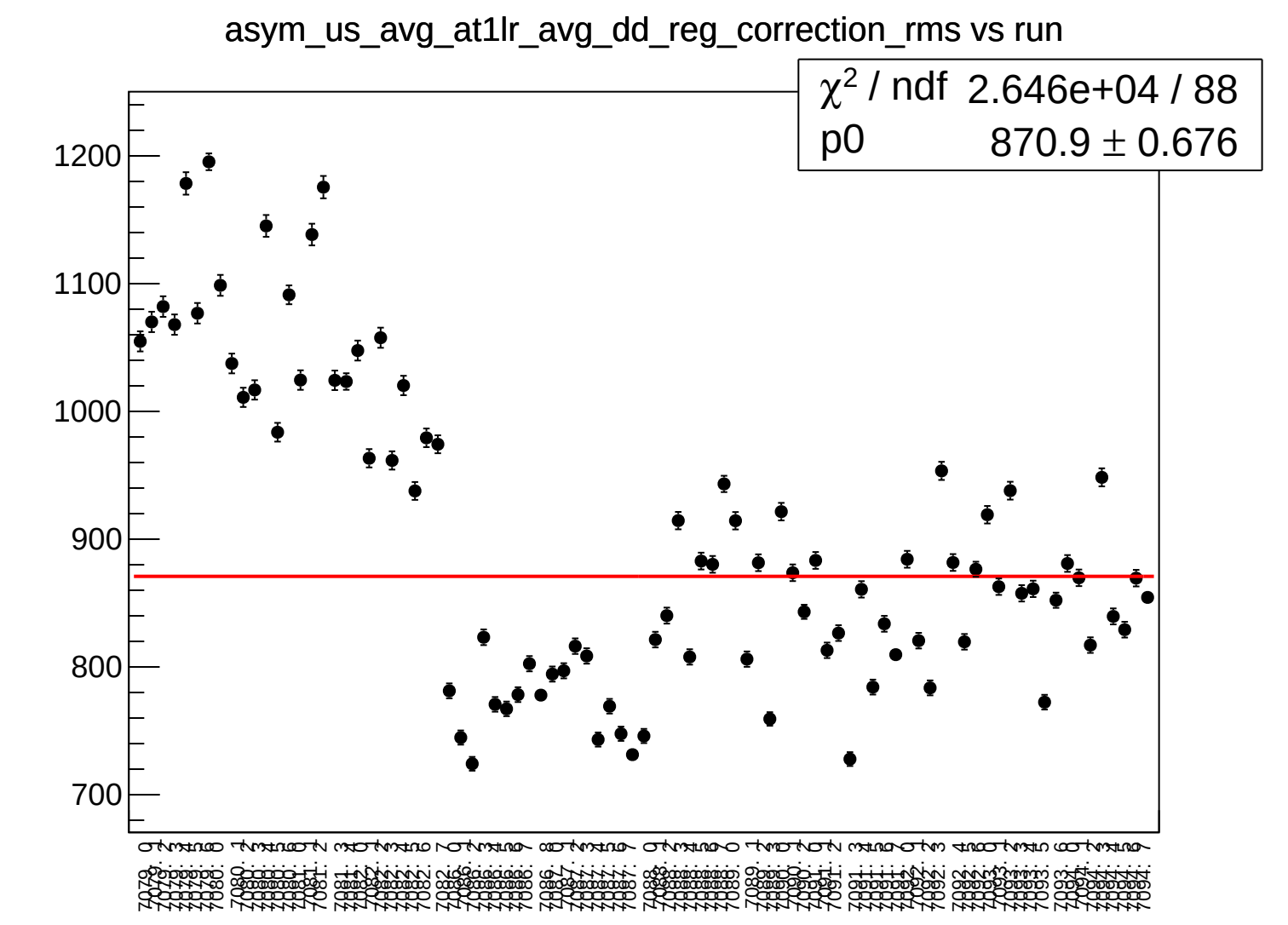

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.25 / 88
p0 −689.3 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −704.5
Std Dev 0
2
1
0
−1
−2
−3

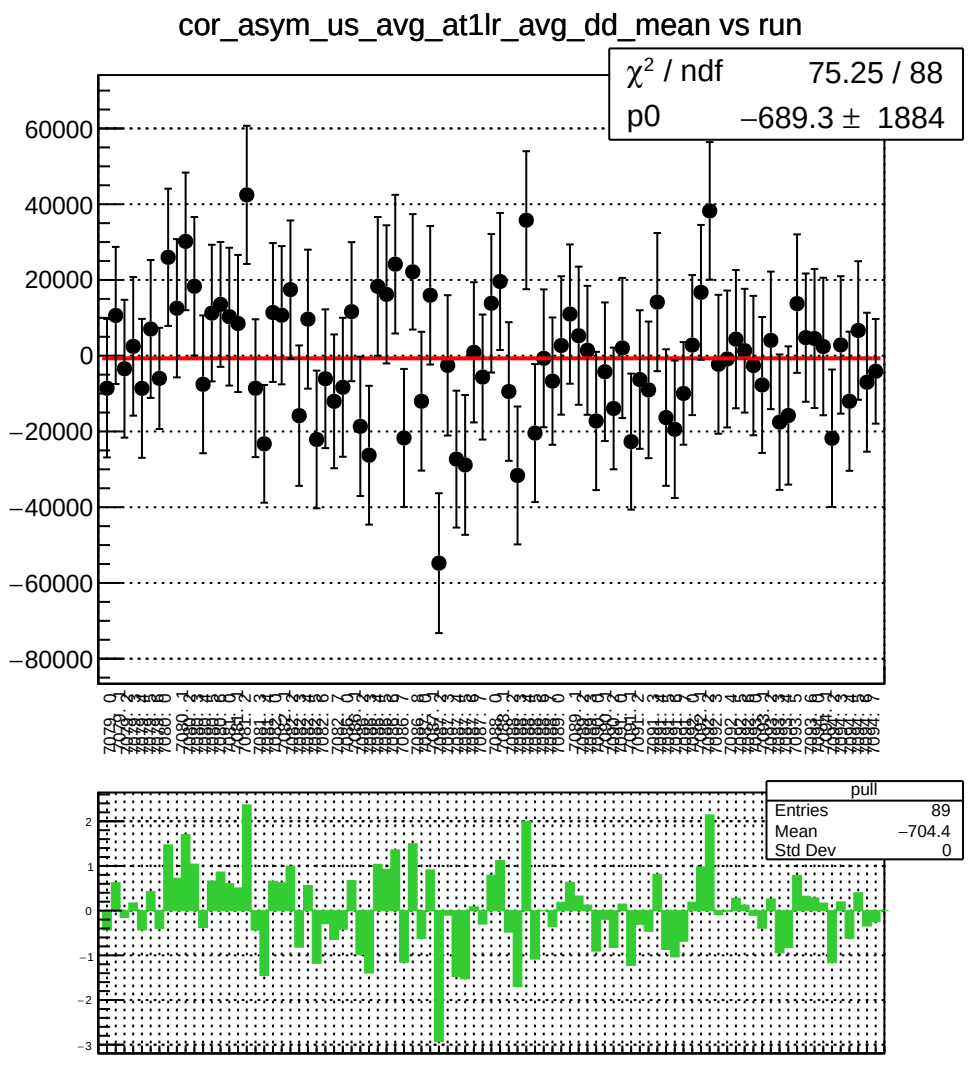

pull1D
Entries 89
Mean 0.00485
Std Dev 0.9195
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

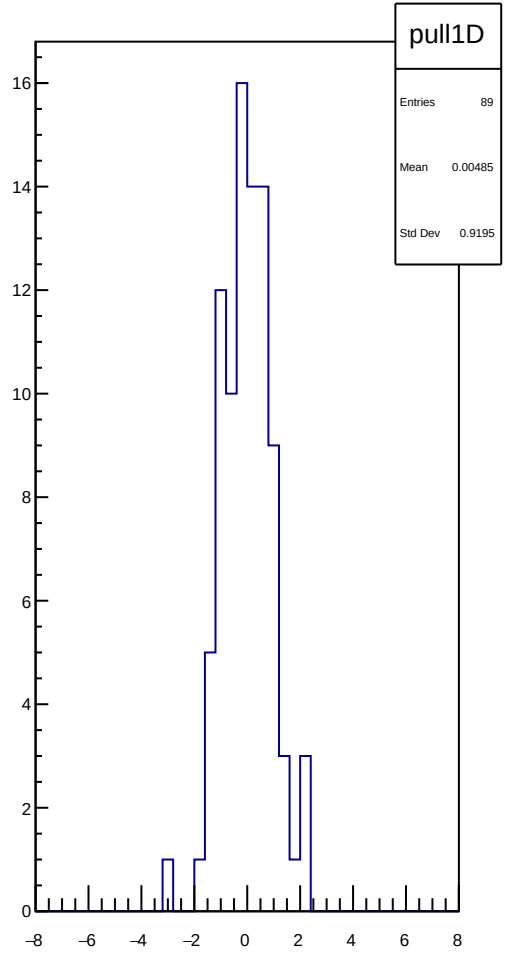

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 102.6 / 88
p0 1730 ± 1.332
1780
1760
1740
1720
1700
1680

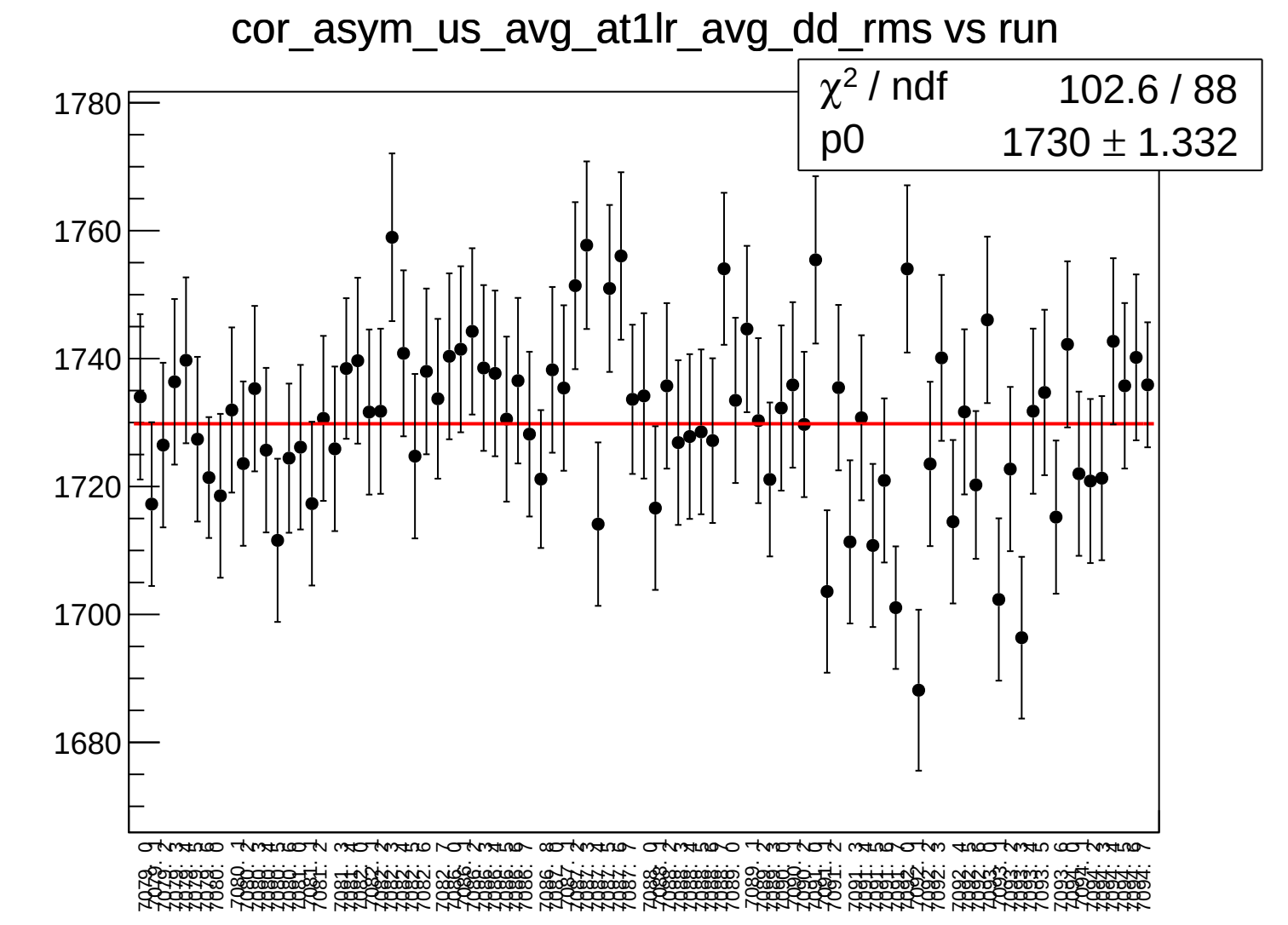

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 64.97 / 88
p0 80.27 ± 956
pull
Entries 89
Mean −226.8
Std Dev 0

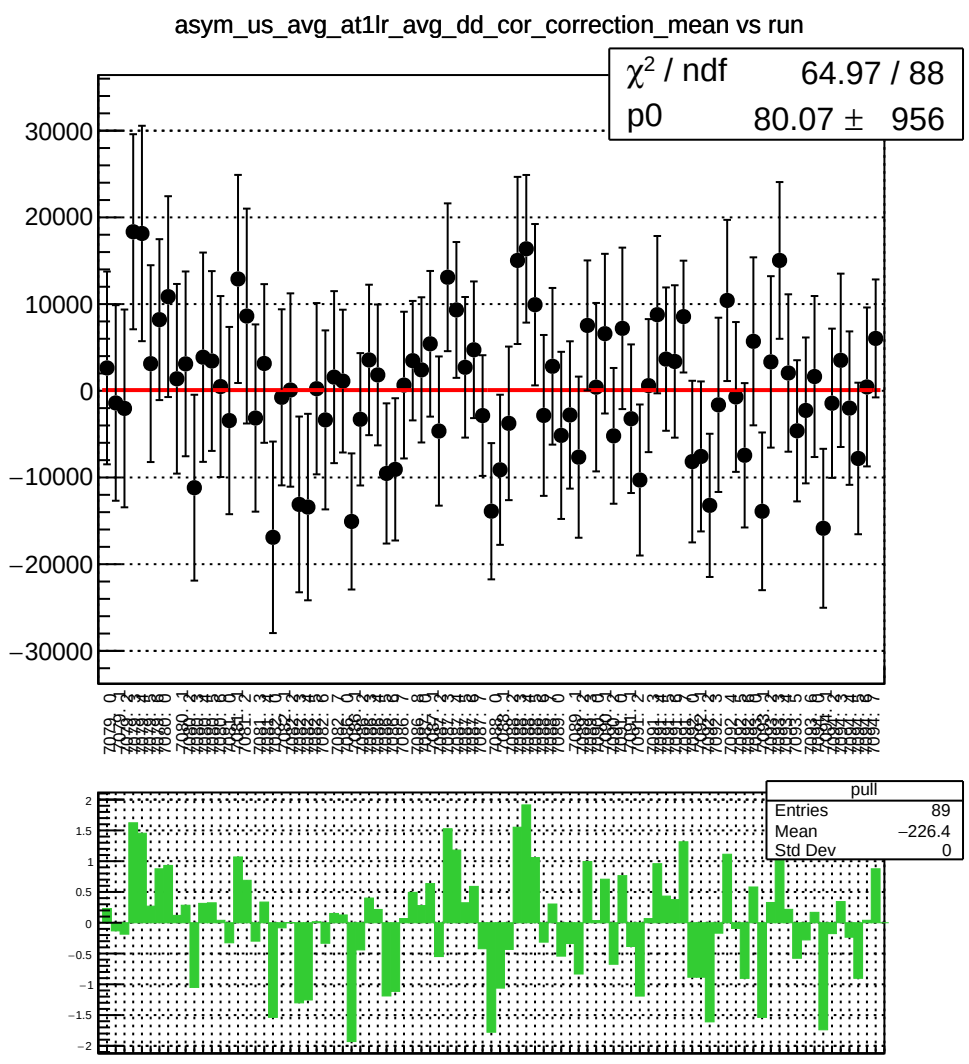

pull1D
Entries 89
Mean 0.007604
Std Dev 0.8544

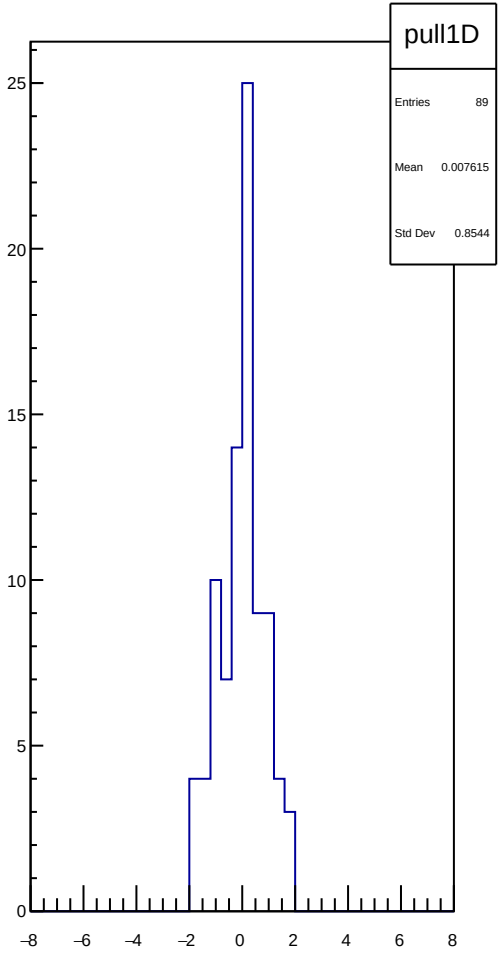

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.646e+04 / 88
p0 870.9 ± 0.676
1200
1100
1000
900
800
700

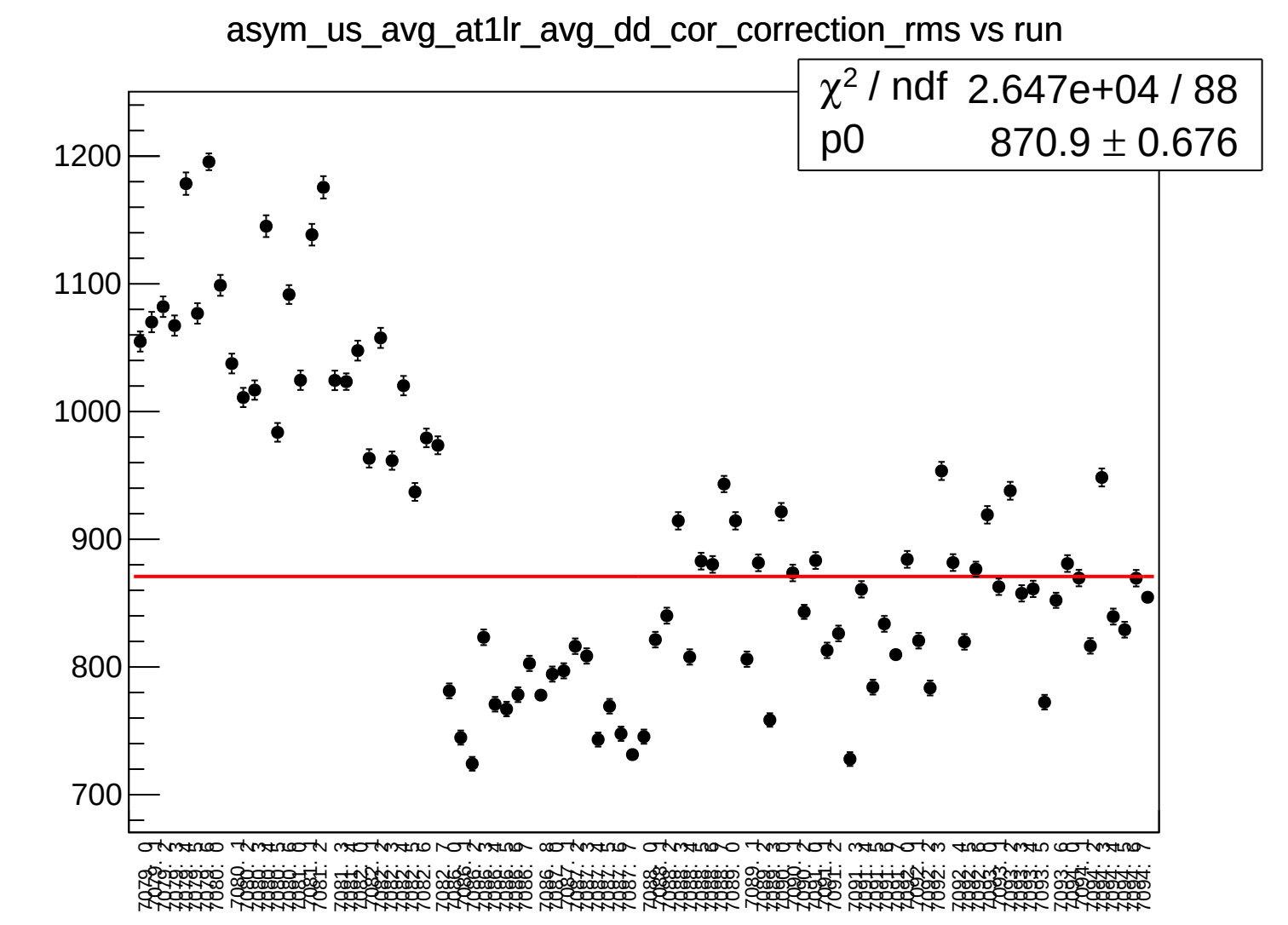

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.25 / 88
p0 −689.3 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −704.4
Std Dev 0
2
1
0
−1
−2
−3

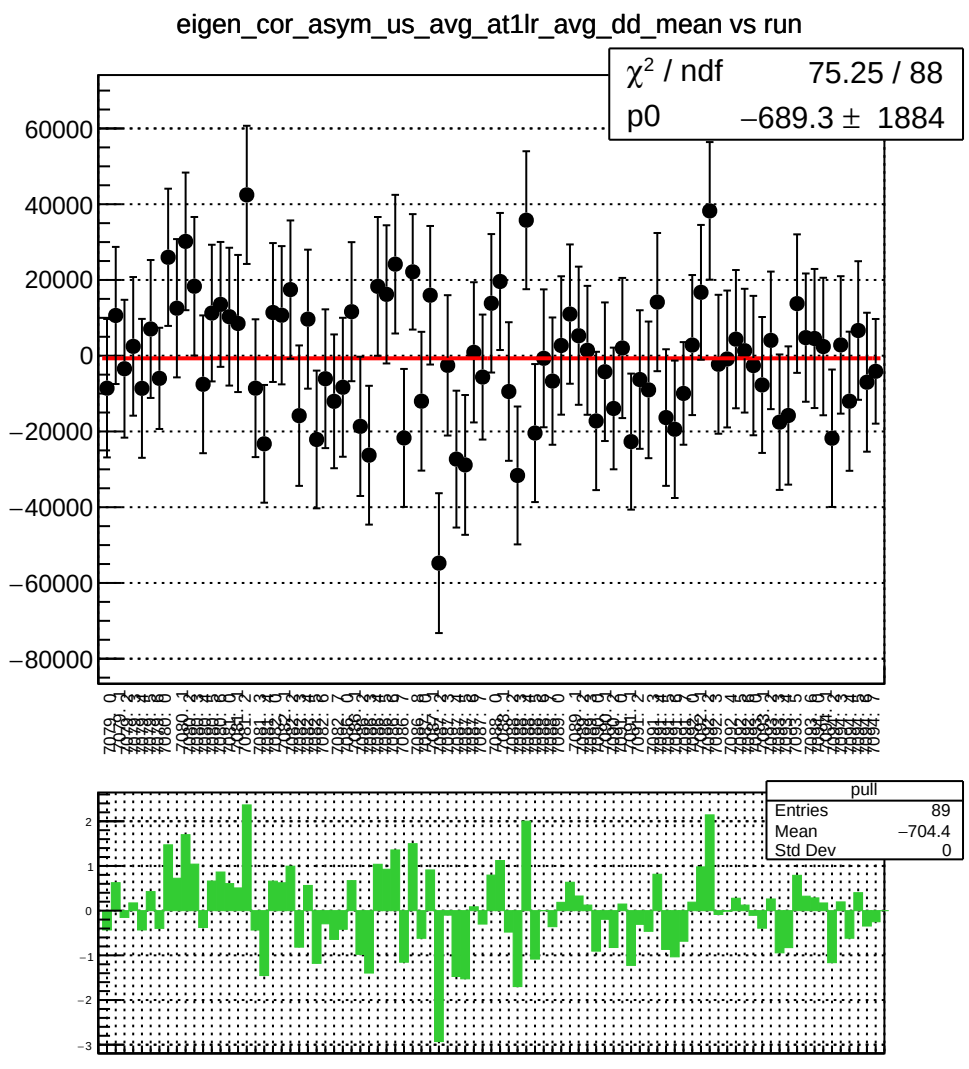

pull1D
Entries 89
Mean 0.00485
Std Dev 0.9195
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

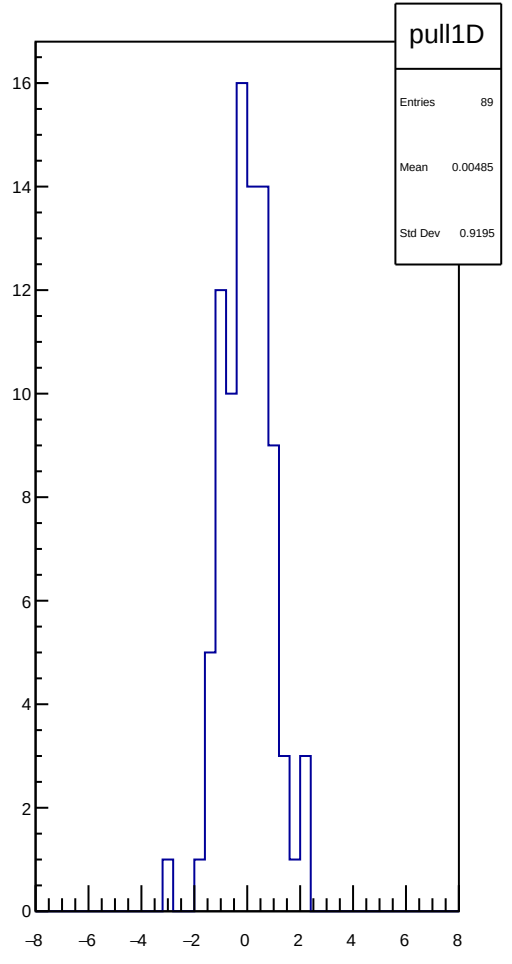

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 102.6 / 88
p0 1730 ± 1.332
1780
1760
1740
1720
1700
1680

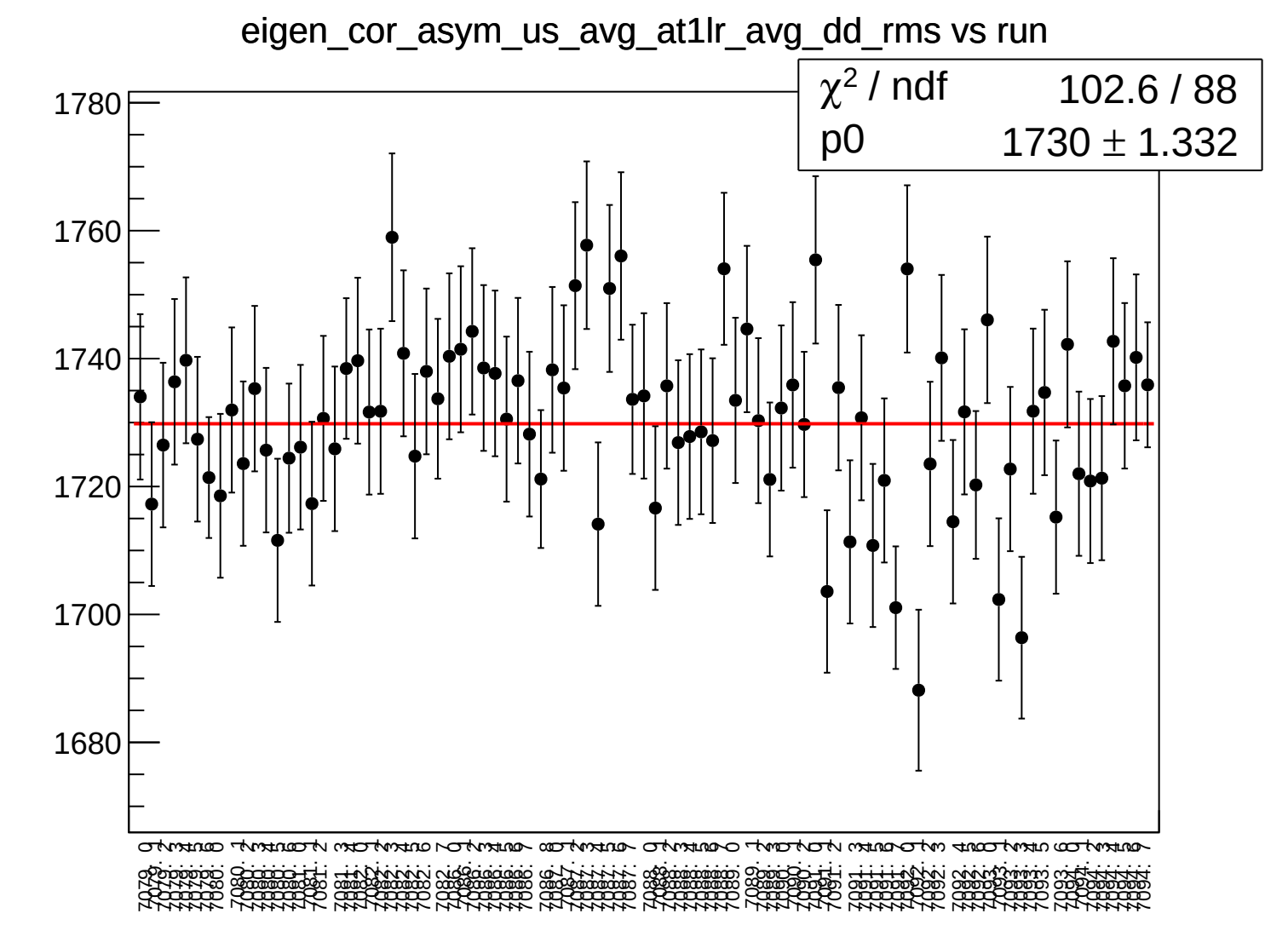

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 64.97 / 88
p0 80.07 ± 956
pull
Entries 89
Mean −226.4
Std Dev 0

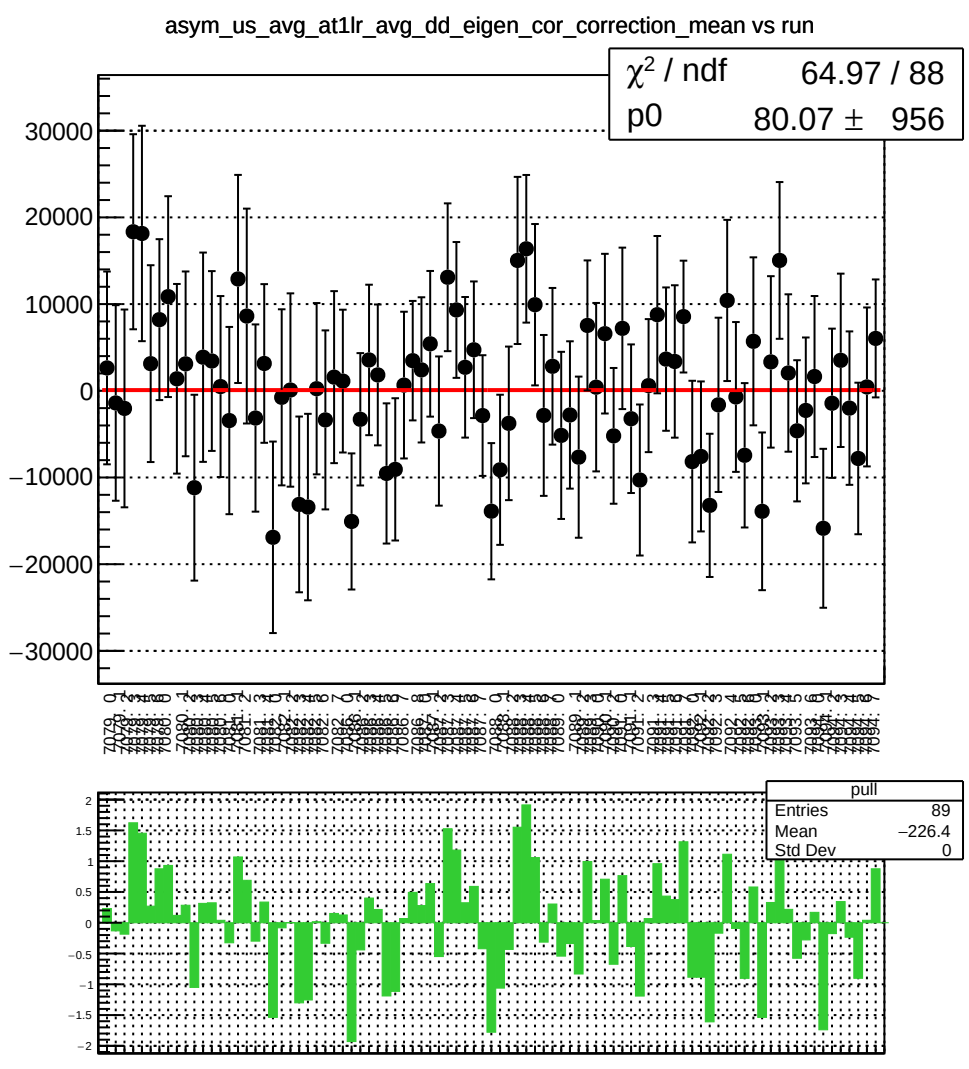

pull1D
Entries 89
Mean 0.007615
Std Dev 0.8544

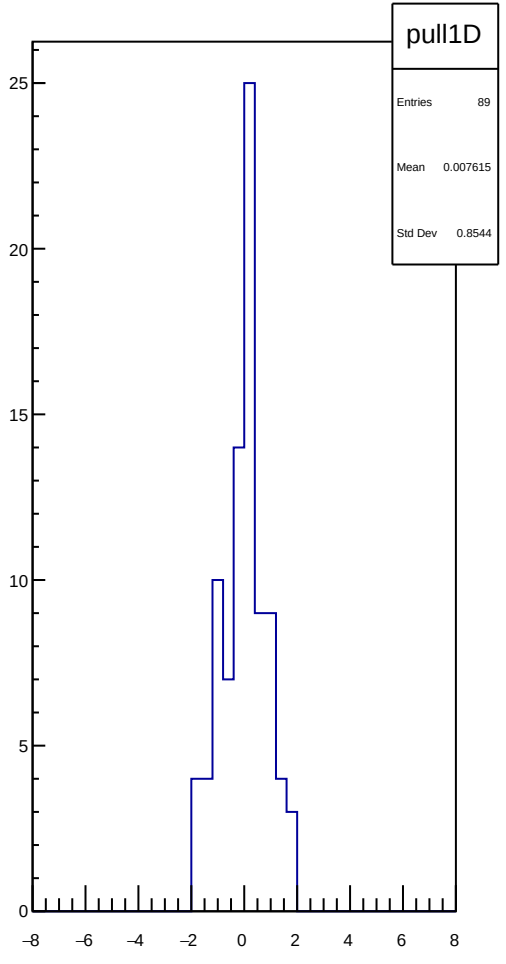

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.647e+04 / 88
p0 870.9 ± 0.676
1200
1100
1000
900
800
700

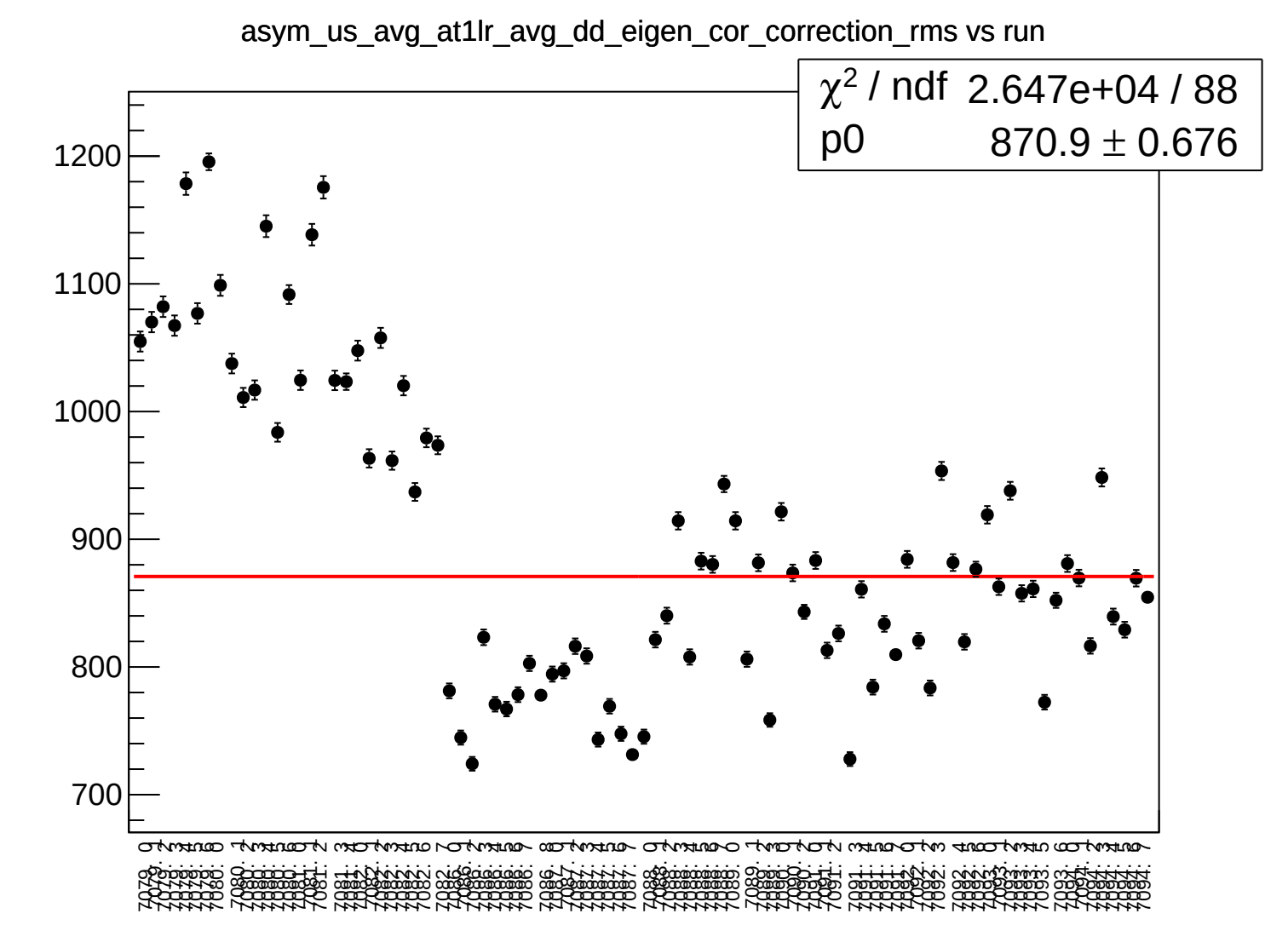

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.25 / 88
p0 −689.3 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −704.4
Std Dev 0
2
1
0
−1
−2
−3

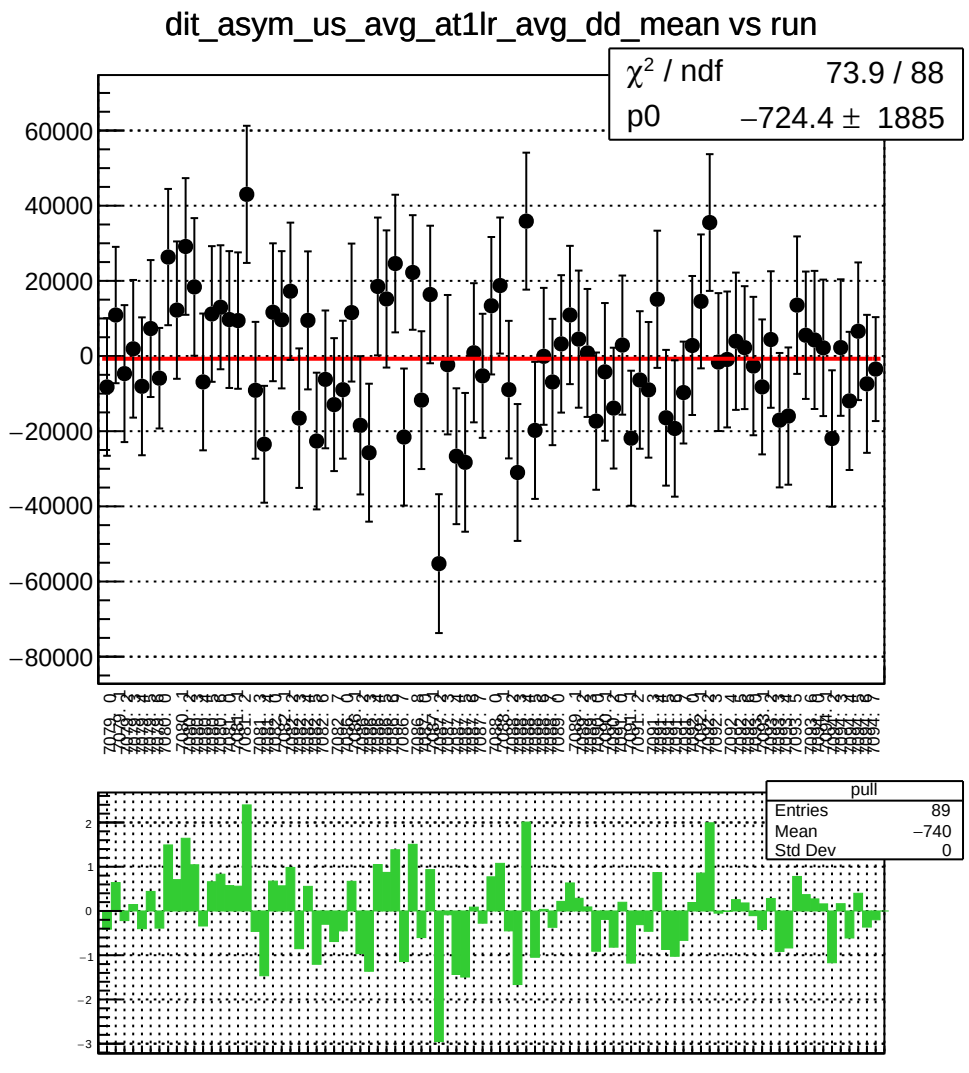

pull1D
Entries 89
Mean 0.00485
Std Dev 0.9195
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

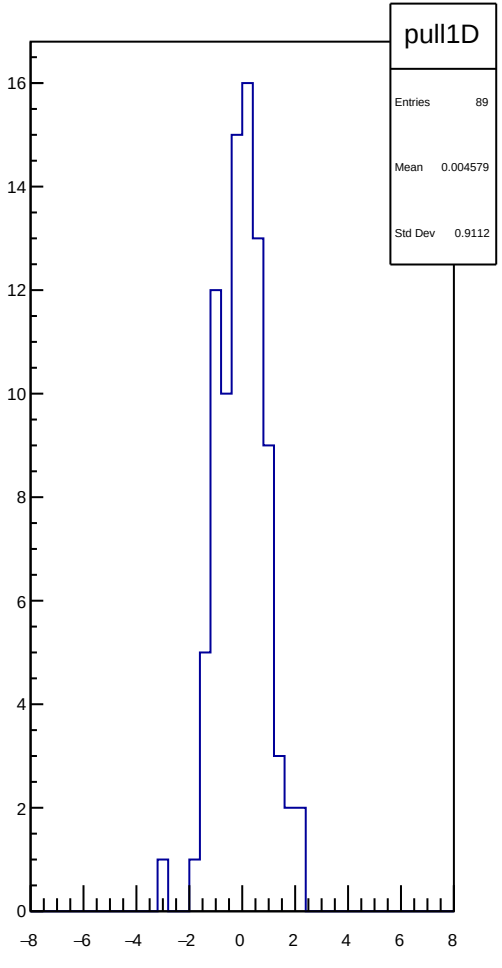

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 102.6 / 88
p0 1730 ± 1.332
1780
1760
1740
1720
1700
1680

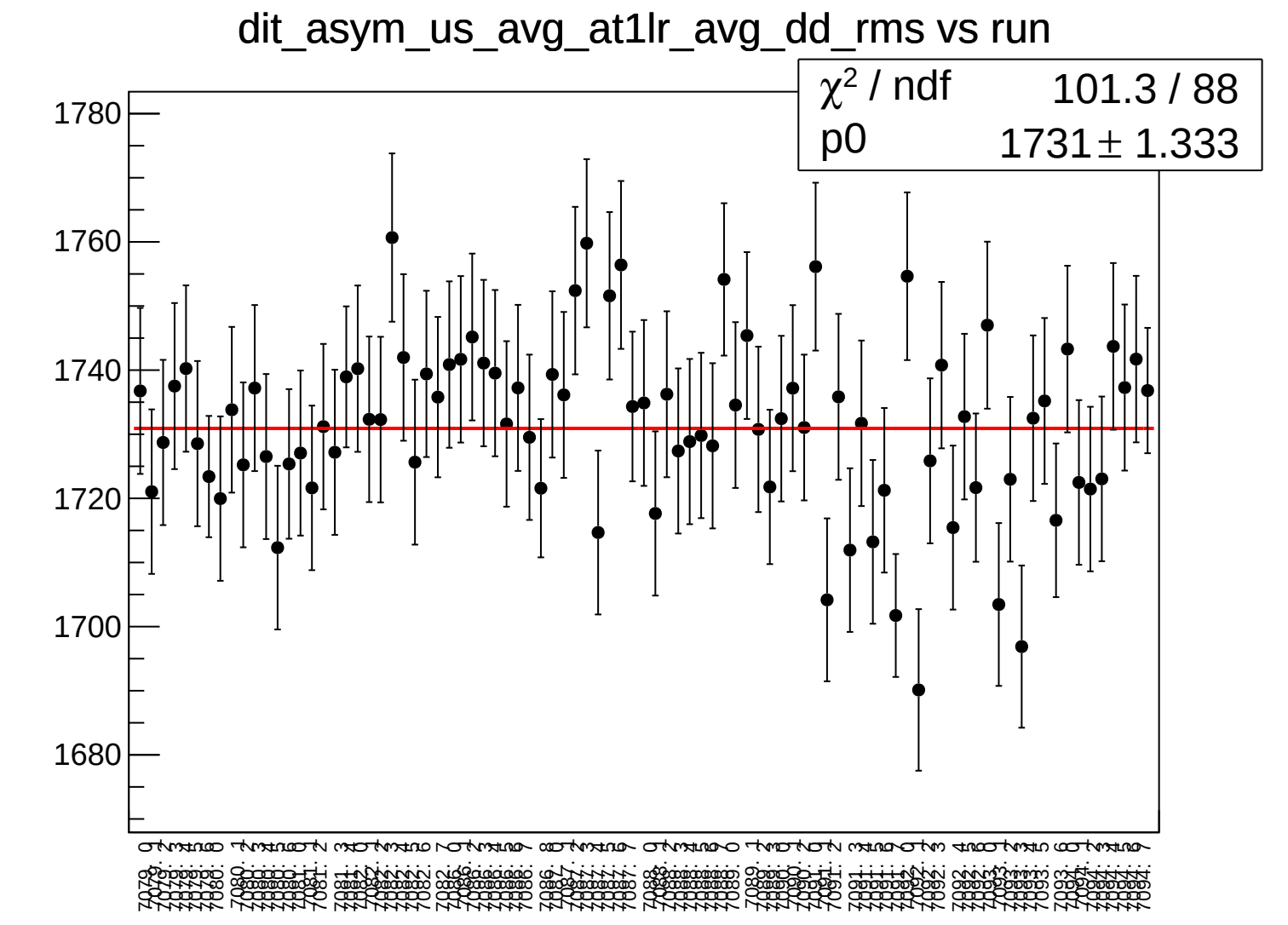

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 64.97 / 88
p0 80.07 ± 956
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −226.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

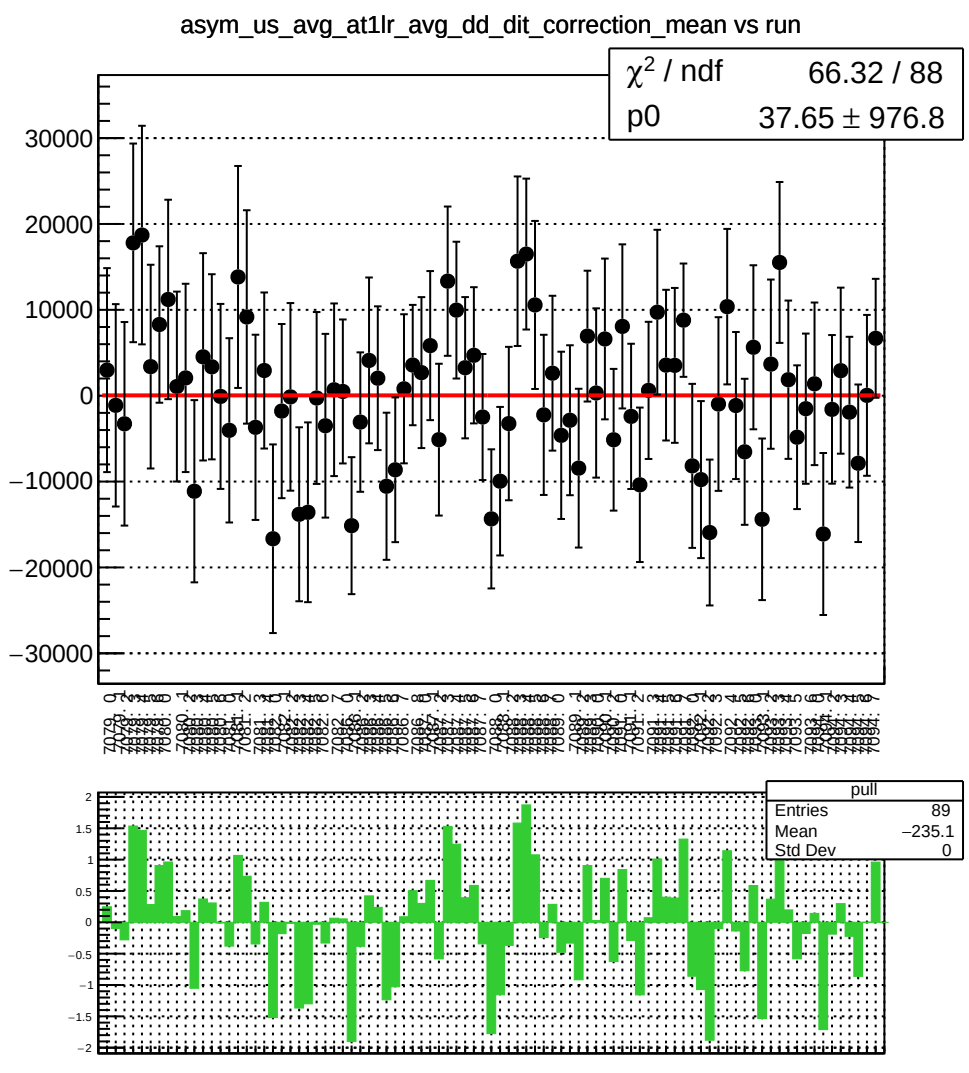

pull1D
Entries 89
Mean 0.007615
Std Dev 0.8544
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

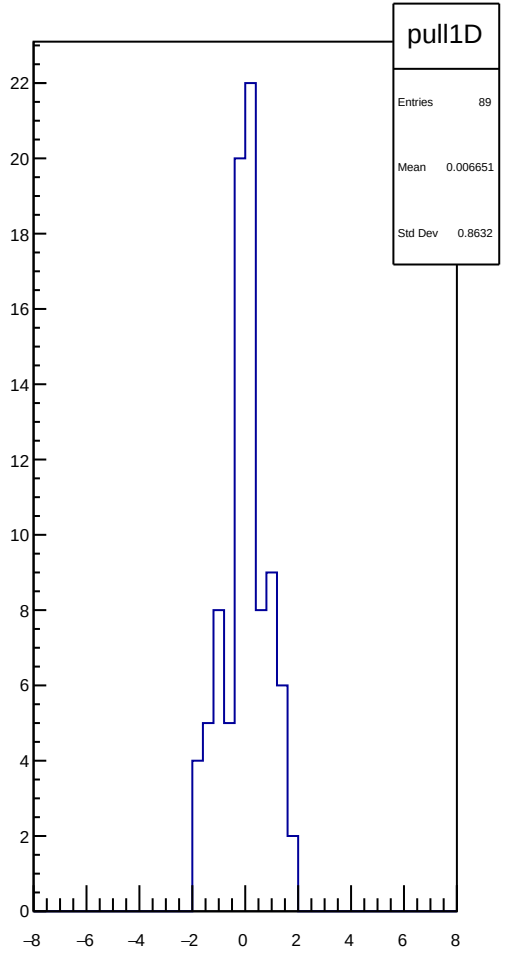

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.647e+04 / 88
p0 870.9 ± 0.676
1200
1100
1000
900
800
700

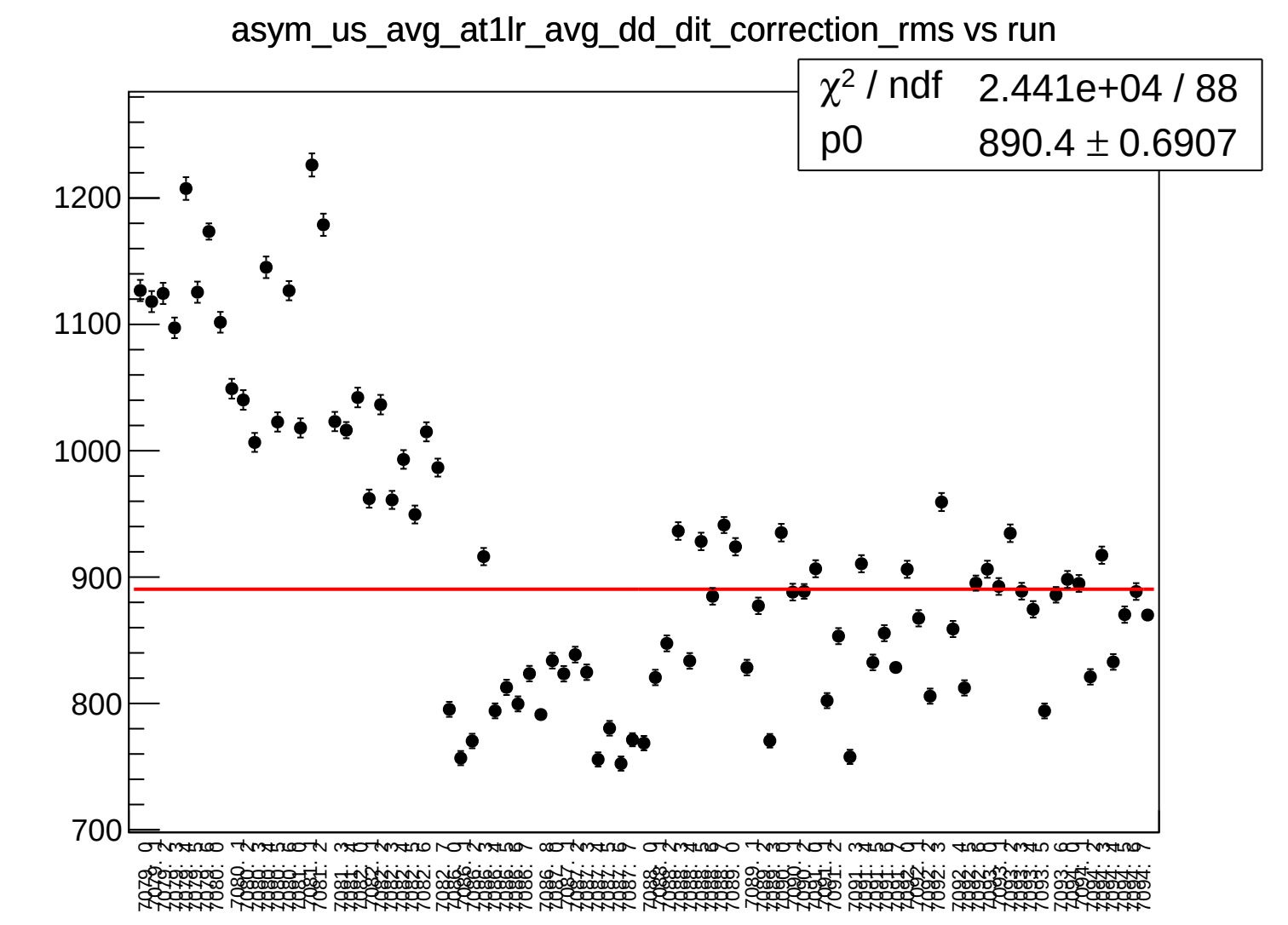

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 73.9 / 88
p0 −724.4 ± 1885
pull
Entries 89
Mean −740
Std Dev 0

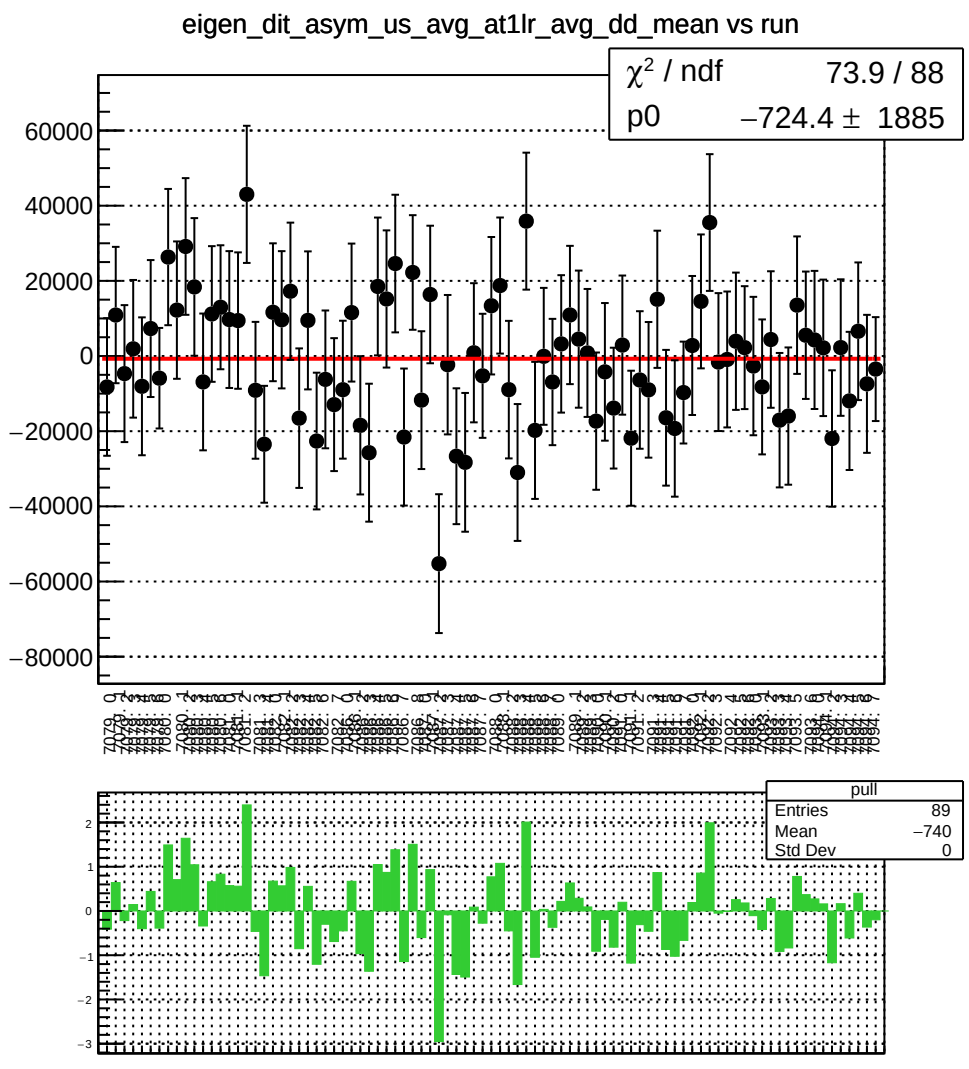

pull1D
Entries 89
Mean 0.004579
Std Dev 0.9112

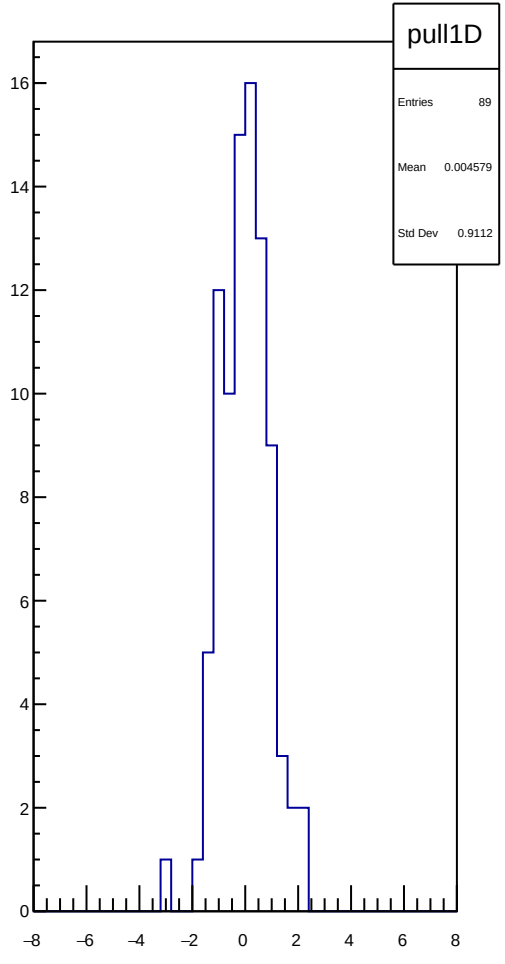

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 101.3 / 88
p0 1731 ± 1.333
1780
1760
1740
1720
1700
1680

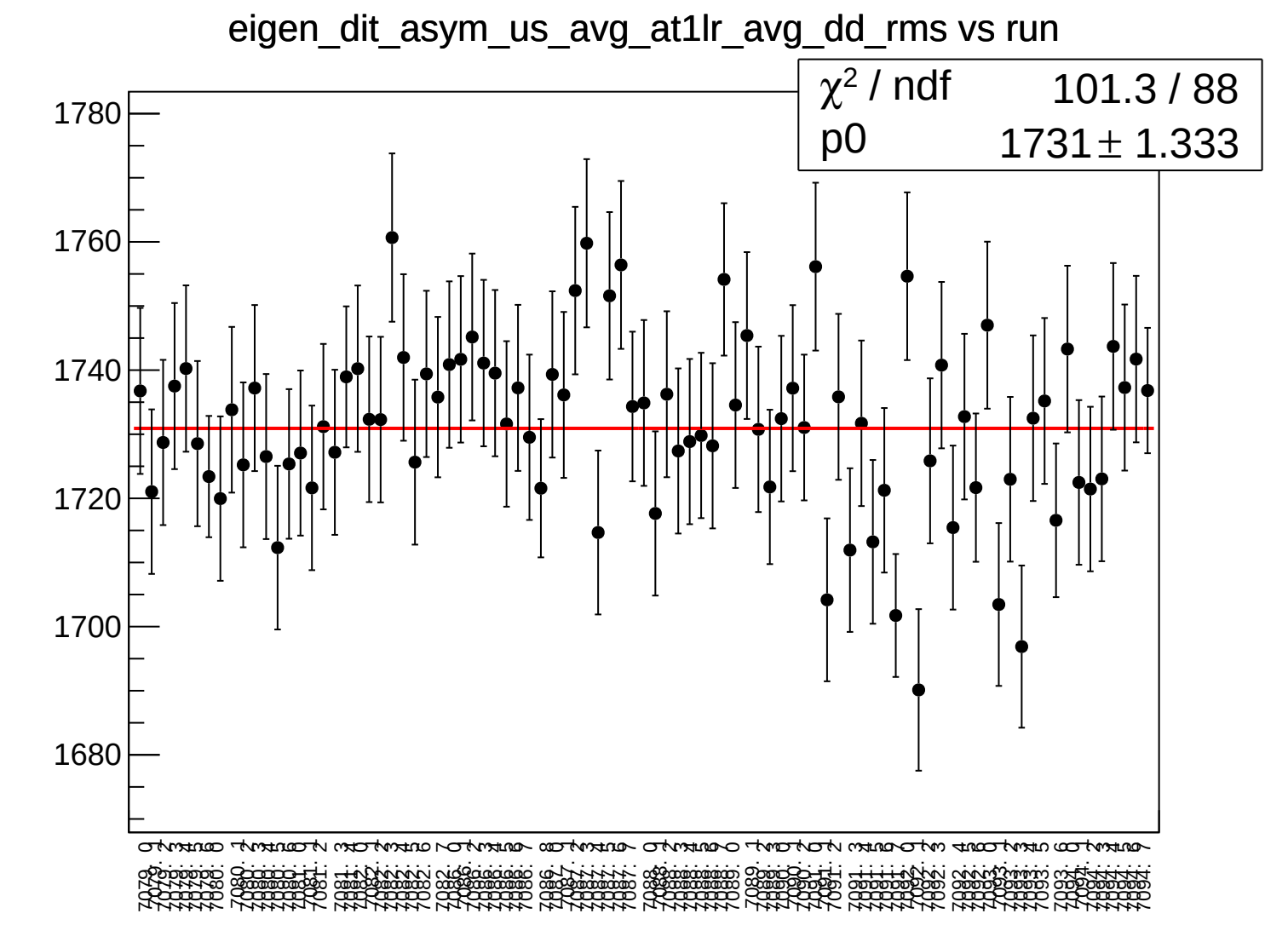

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 66.32 / 88
p0 37.65 ± 976.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −235.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

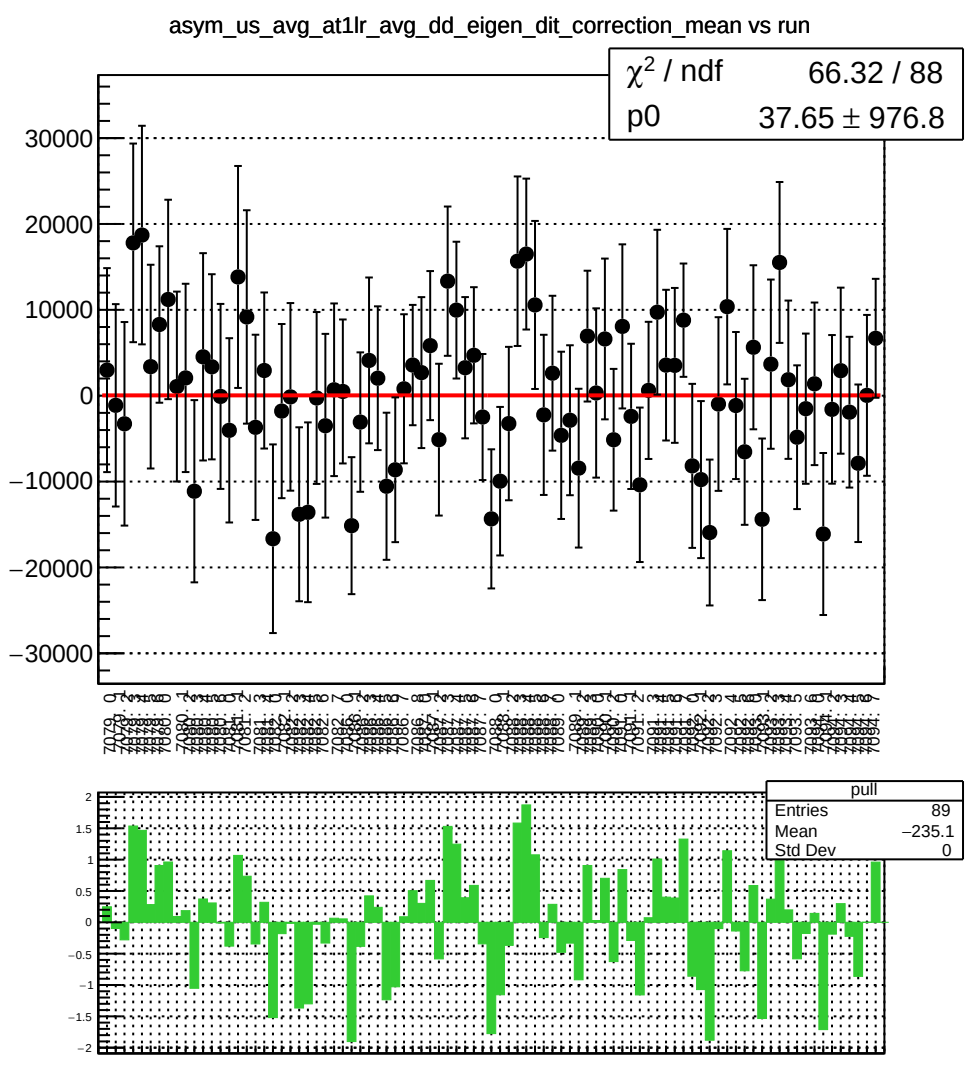

pull1D
Entries 89
Mean 0.006651
Std Dev 0.8632
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

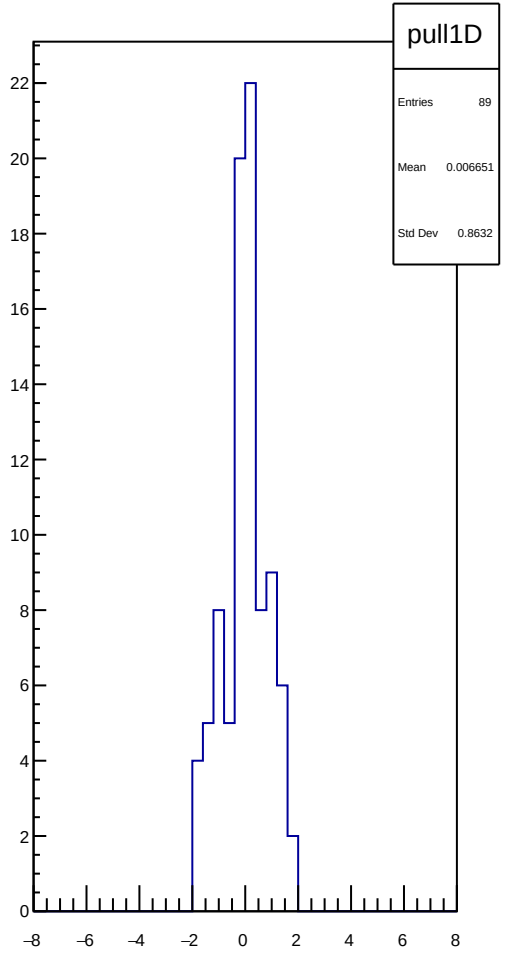

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.441e+04 / 88
p0 890.4 ± 0.6907
1200
1100
1000
900
800
700

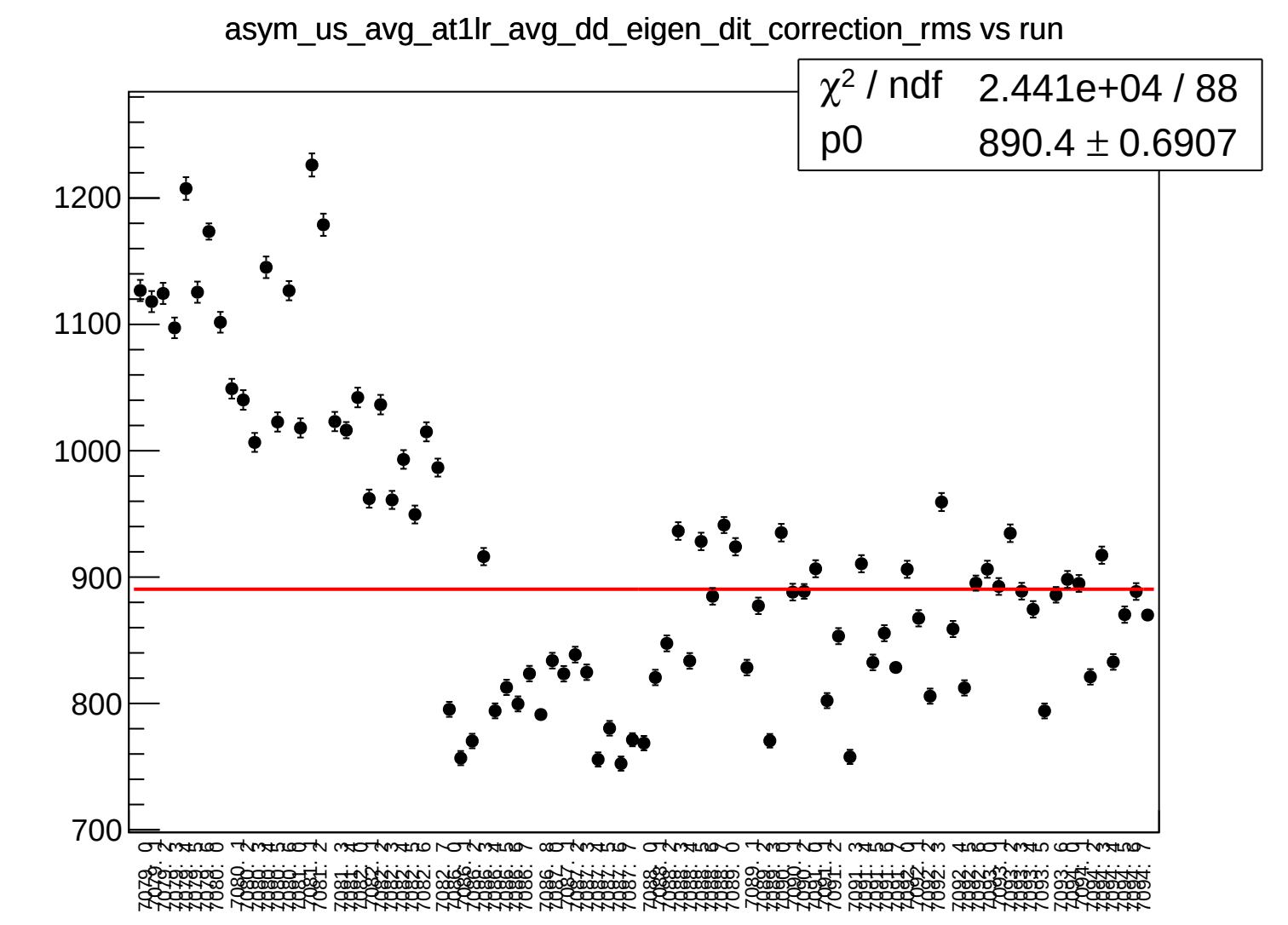

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 73.9 / 88
p0 −724.4 ± 1885
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −740
Std Dev 0
2
1
0
−1
−2
−3

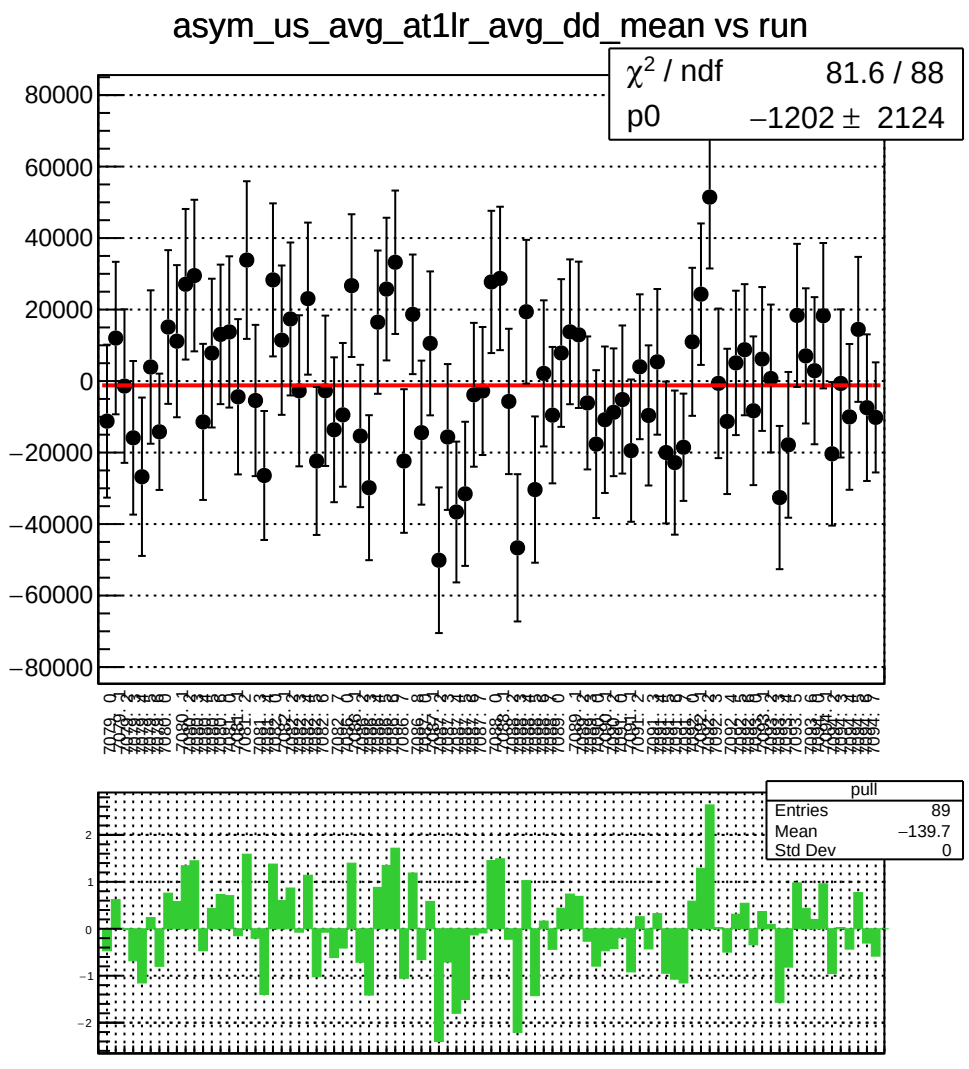

pull1D
Entries 89
Mean 0.004579
Std Dev 0.9112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

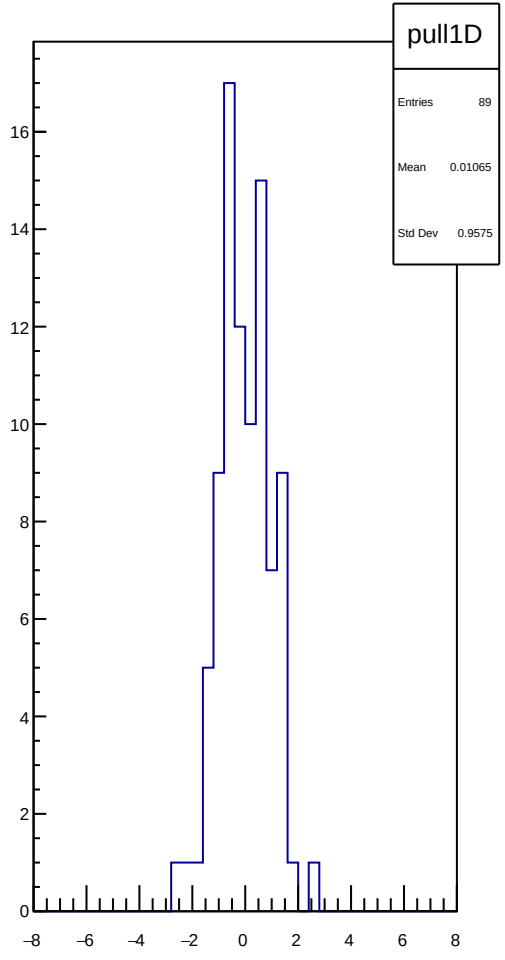

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 101.3 / 88
p0 1731 ± 1.333
1780
1760
1740
1720
1700
1680

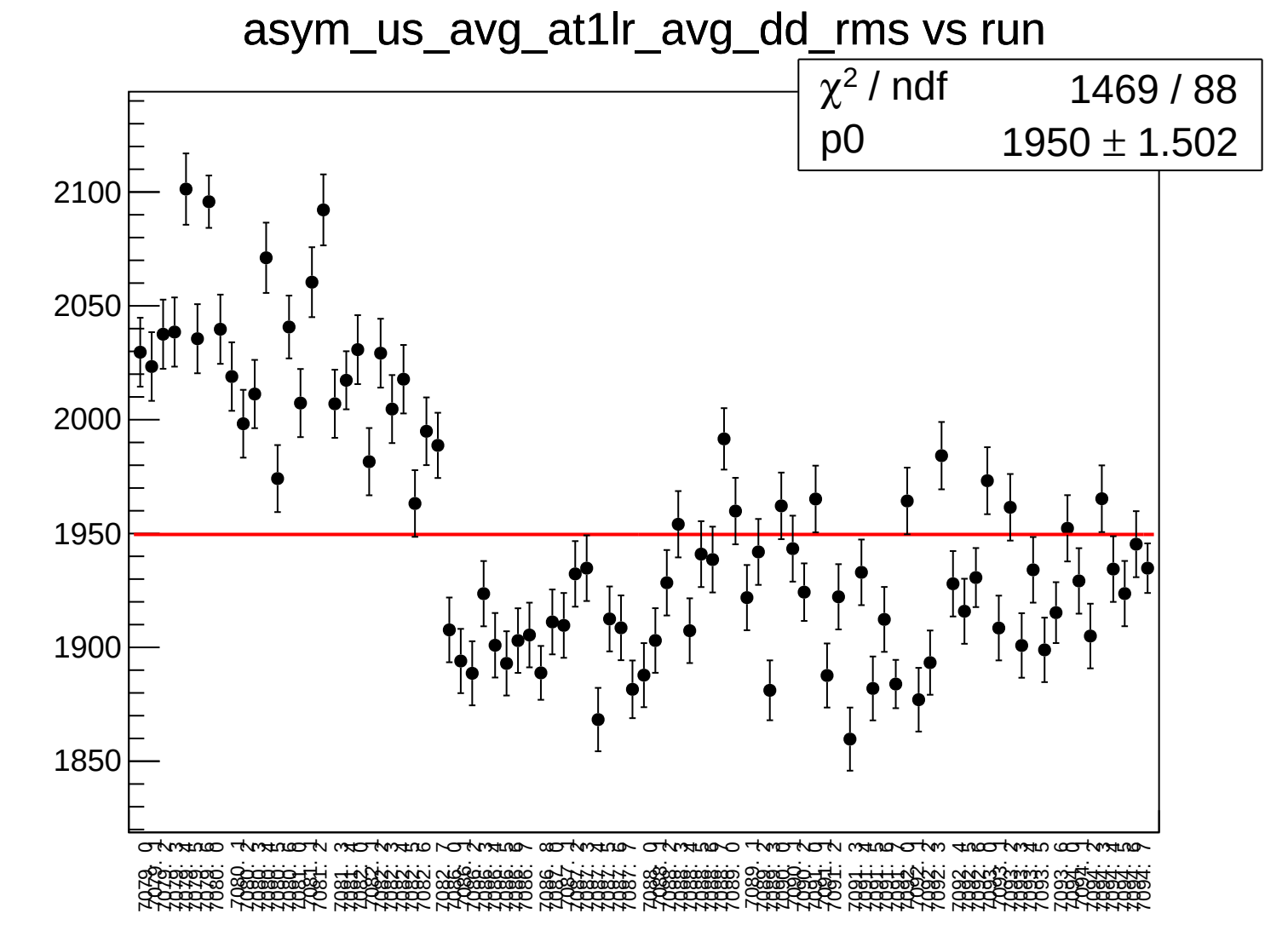

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.32 / 88
p0 37.65 ± 976.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −235.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

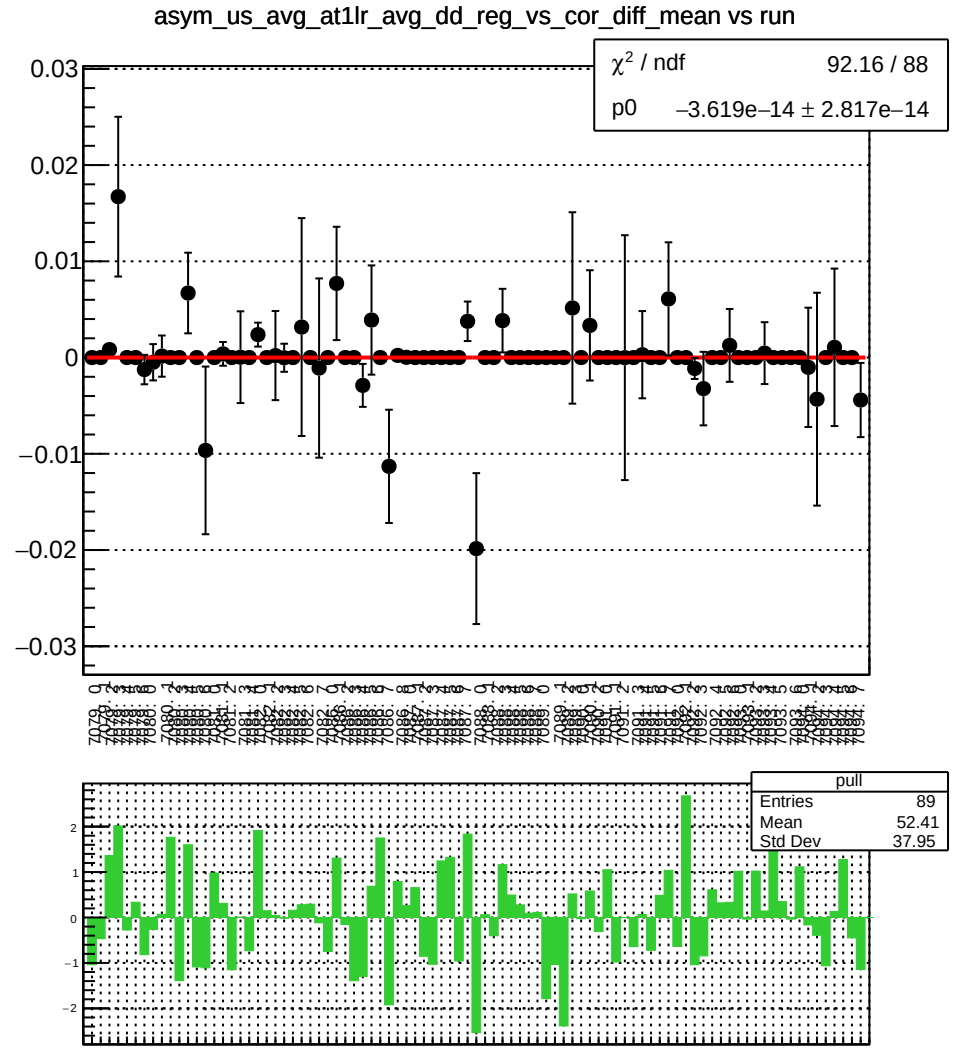

pull1D
Entries 89
Mean 0.006651
Std Dev 0.8632
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

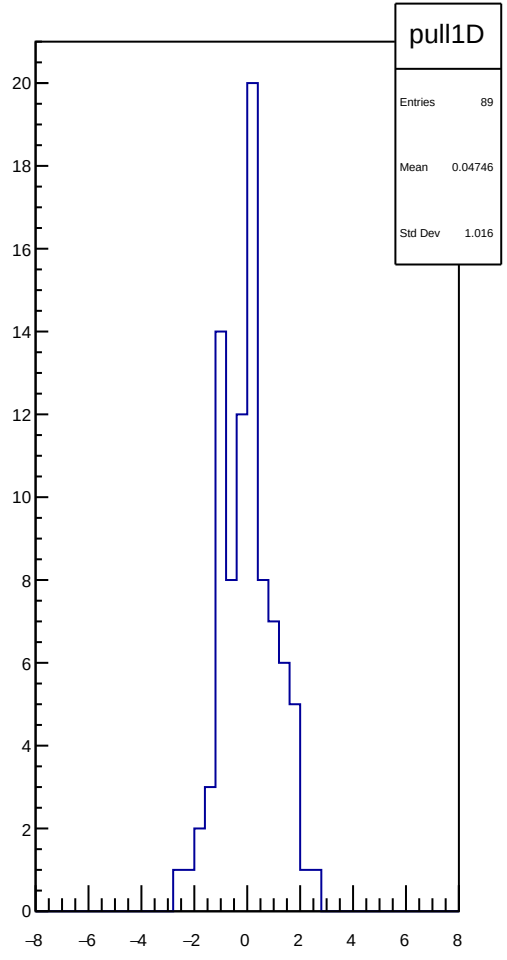

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.441e+04 / 88
p0 890.4 ± 0.6907
1200
1100
1000
900
800
700

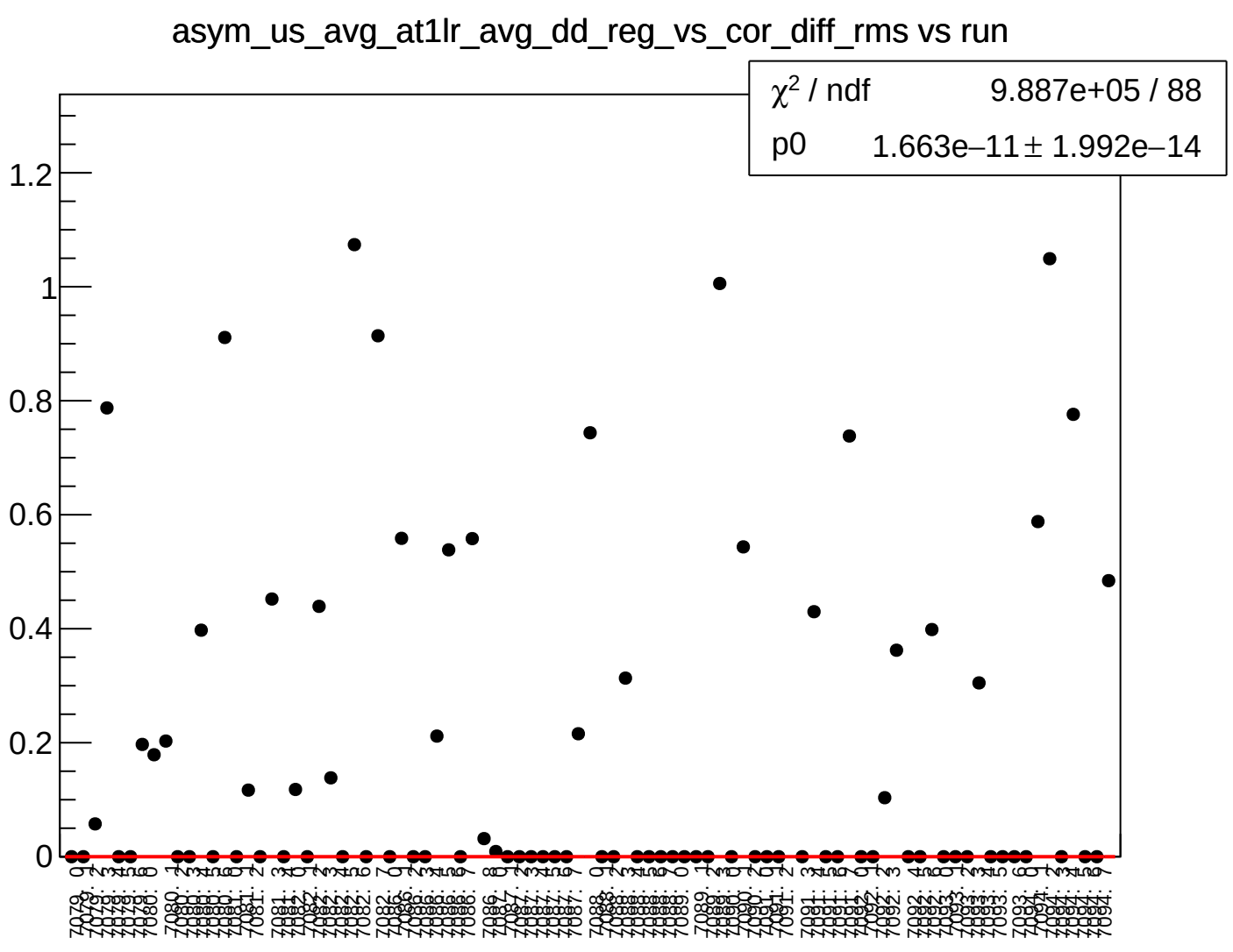

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 81.6 / 88
p0 −1202 ± 2124
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −139.7
Std Dev 0
2
1
0
−1
−2

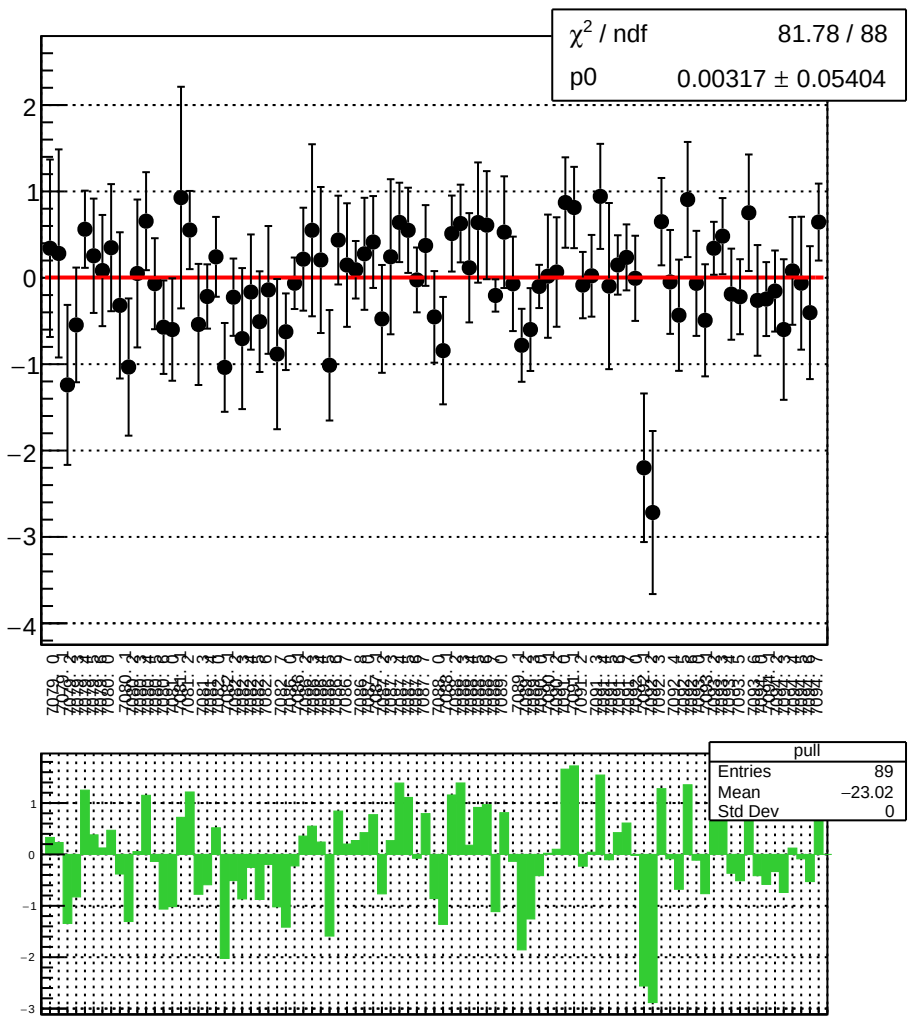

pull1D
Entries 89
Mean 0.01065
Std Dev 0.9575
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

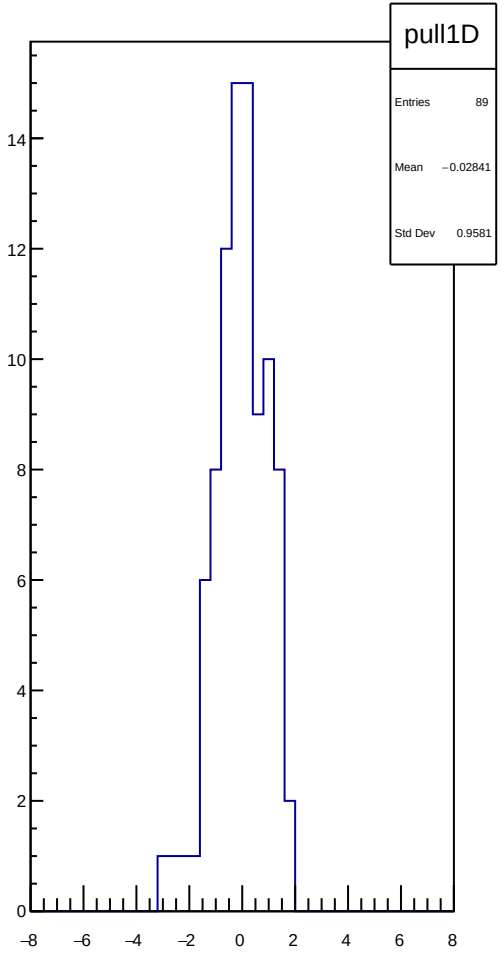

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1469 / 88
p0 1950 ± 1.502
2100
2050
2000
1950
1900
1850

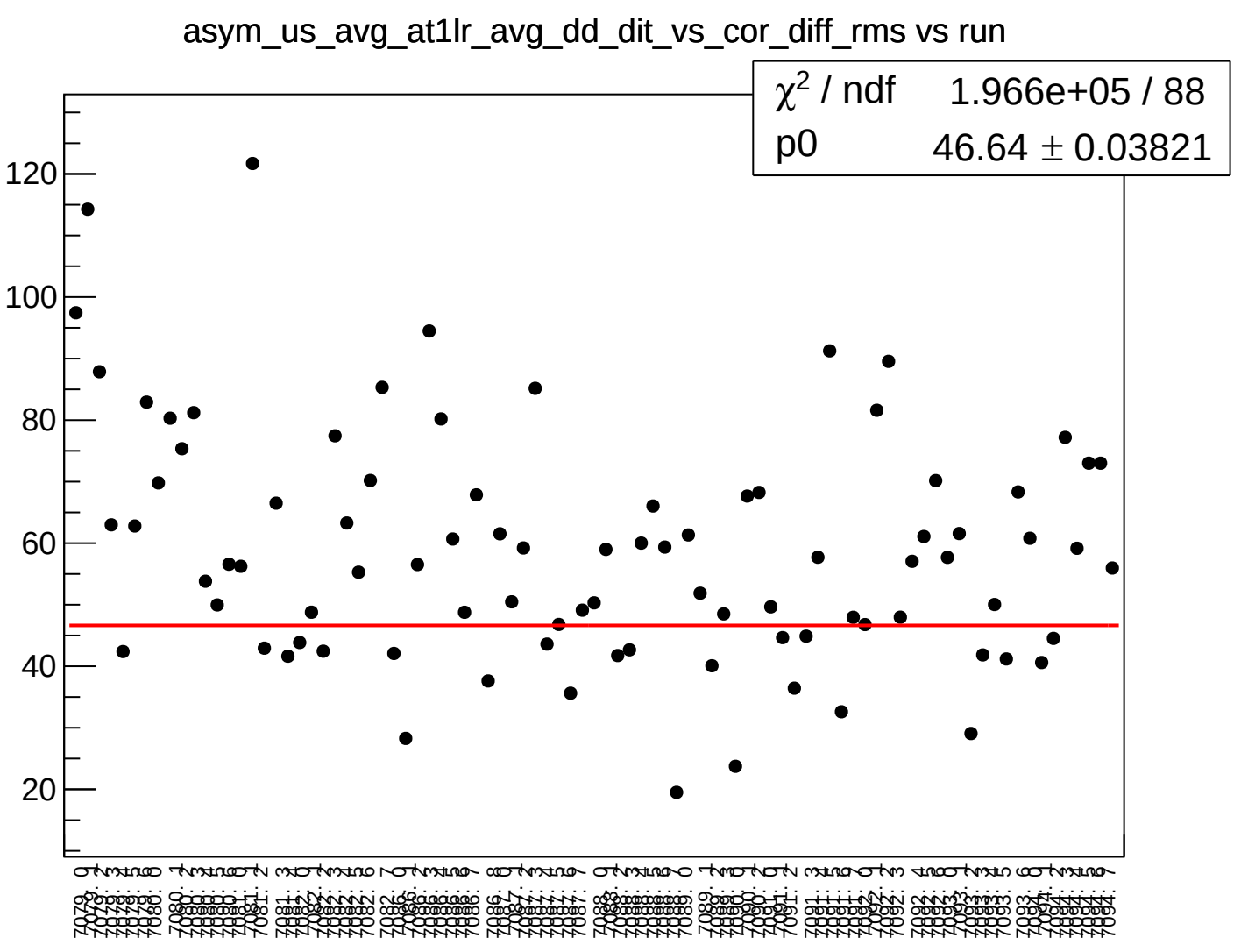

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.16 / 88
p0 −3.619e−14 ± 2.817e−14
pull
Entries 89
Mean 52.41
Std Dev 37.95

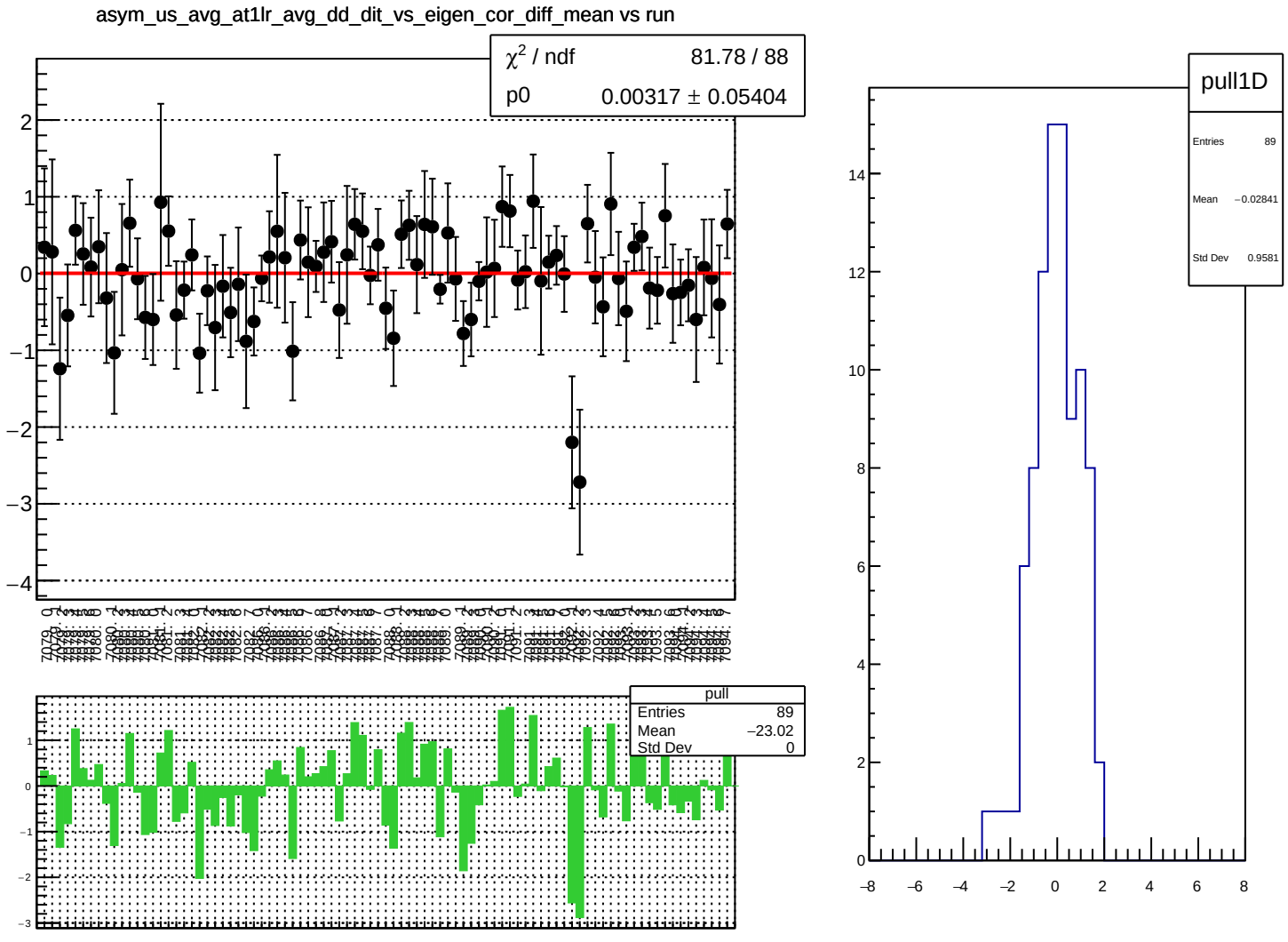

pull1D
Entries 89
Mean 0.04746
Std Dev 1.016

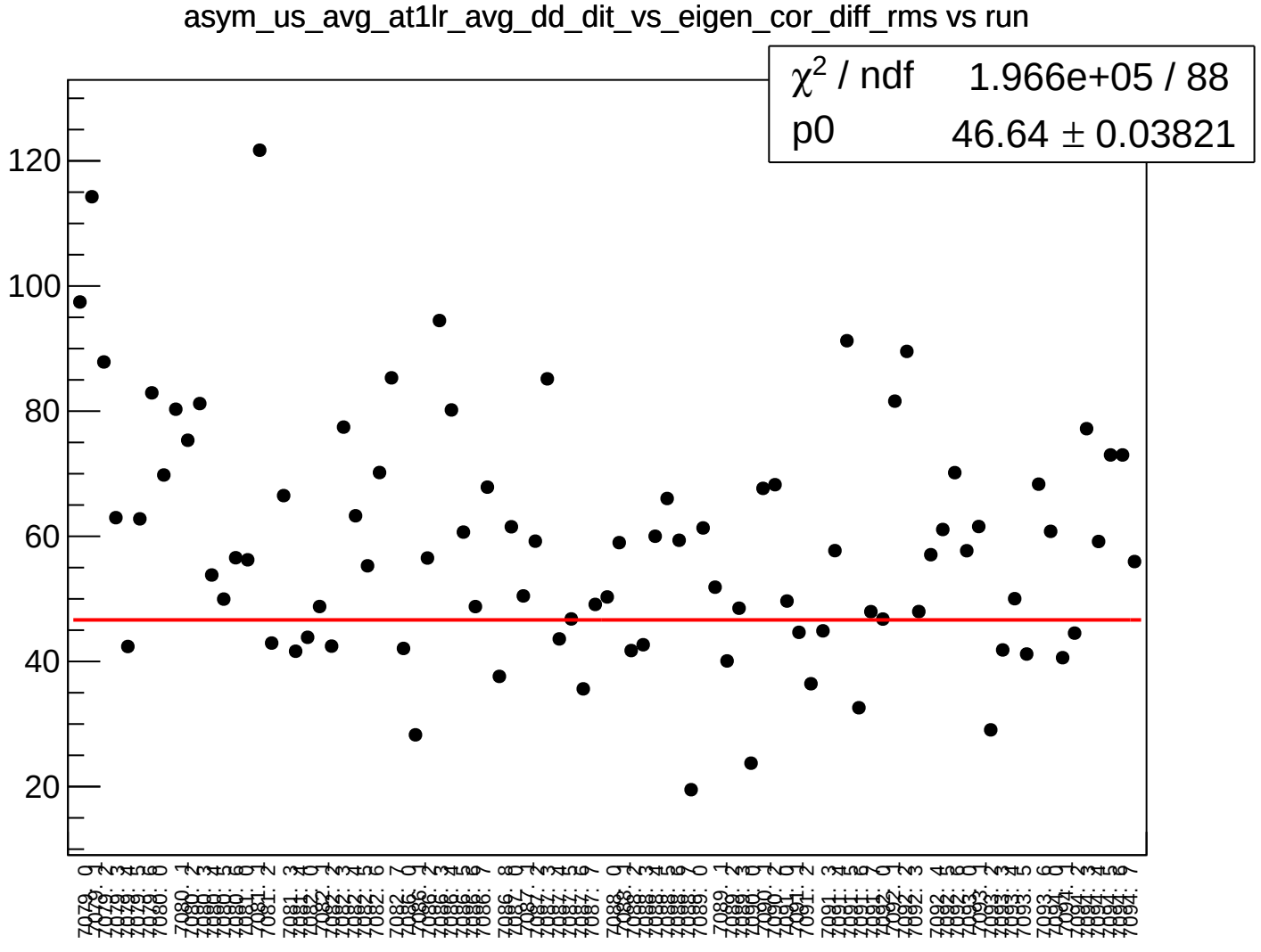

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.887e+05 / 88
p0 1.663e−11 ± 1.992e−14
1.2
1
0.8
0.6
0.4
0.2
0

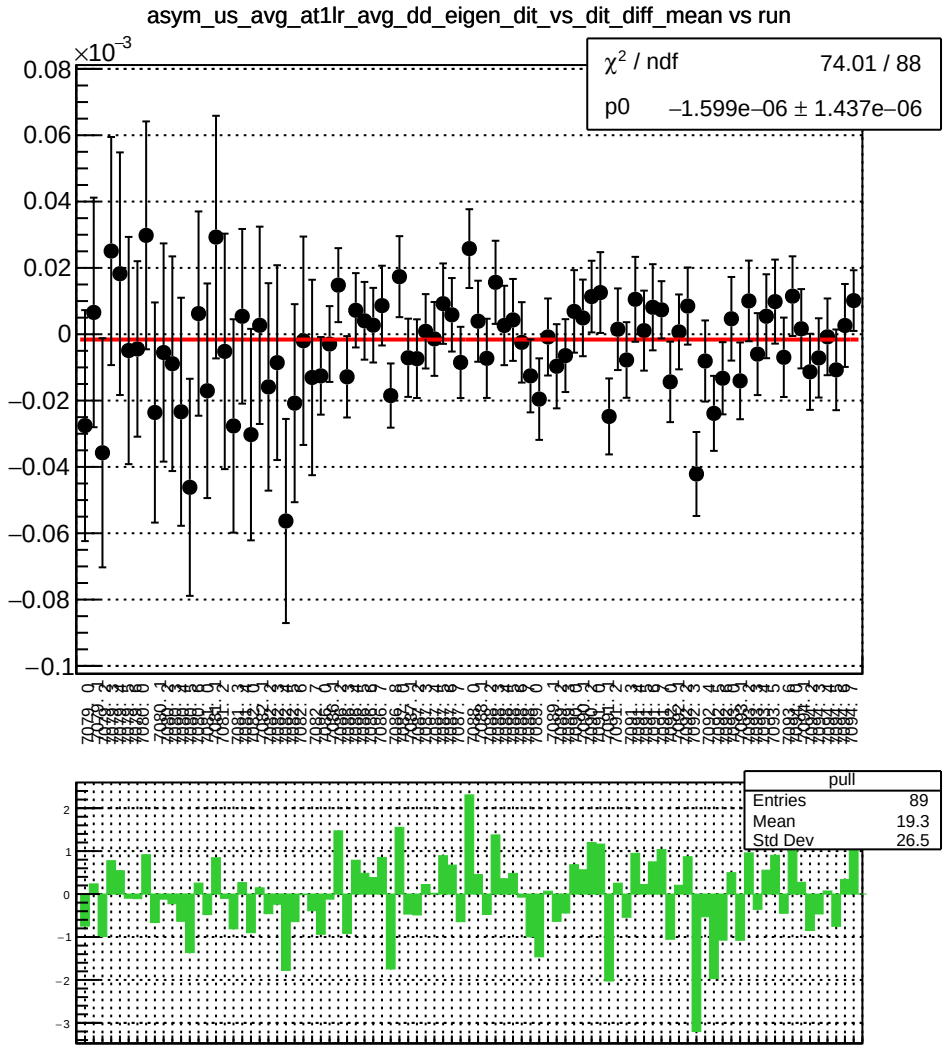

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.78 / 88
p0 0.00317 ± 0.05404
pull
Entries 89
Mean −23.02
Std Dev 0

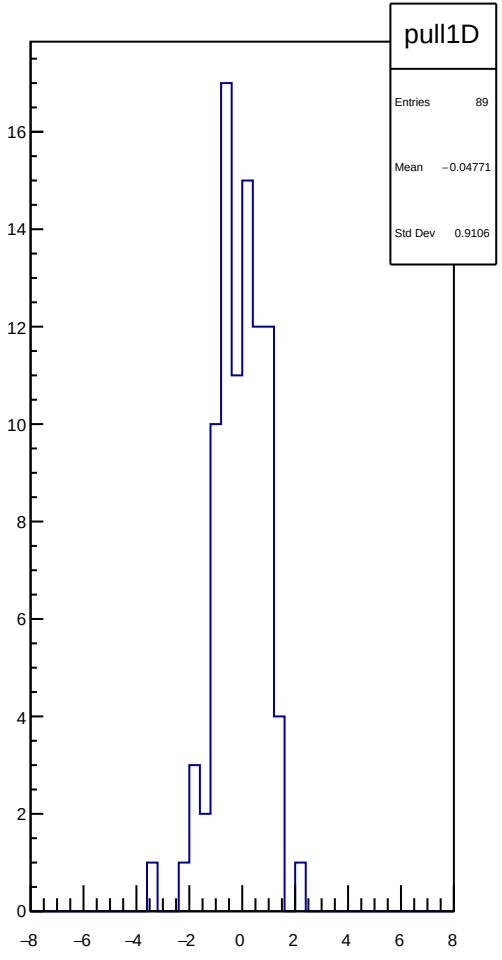

pull1D
Entries 89
Mean −0.02841
Std Dev 0.9581

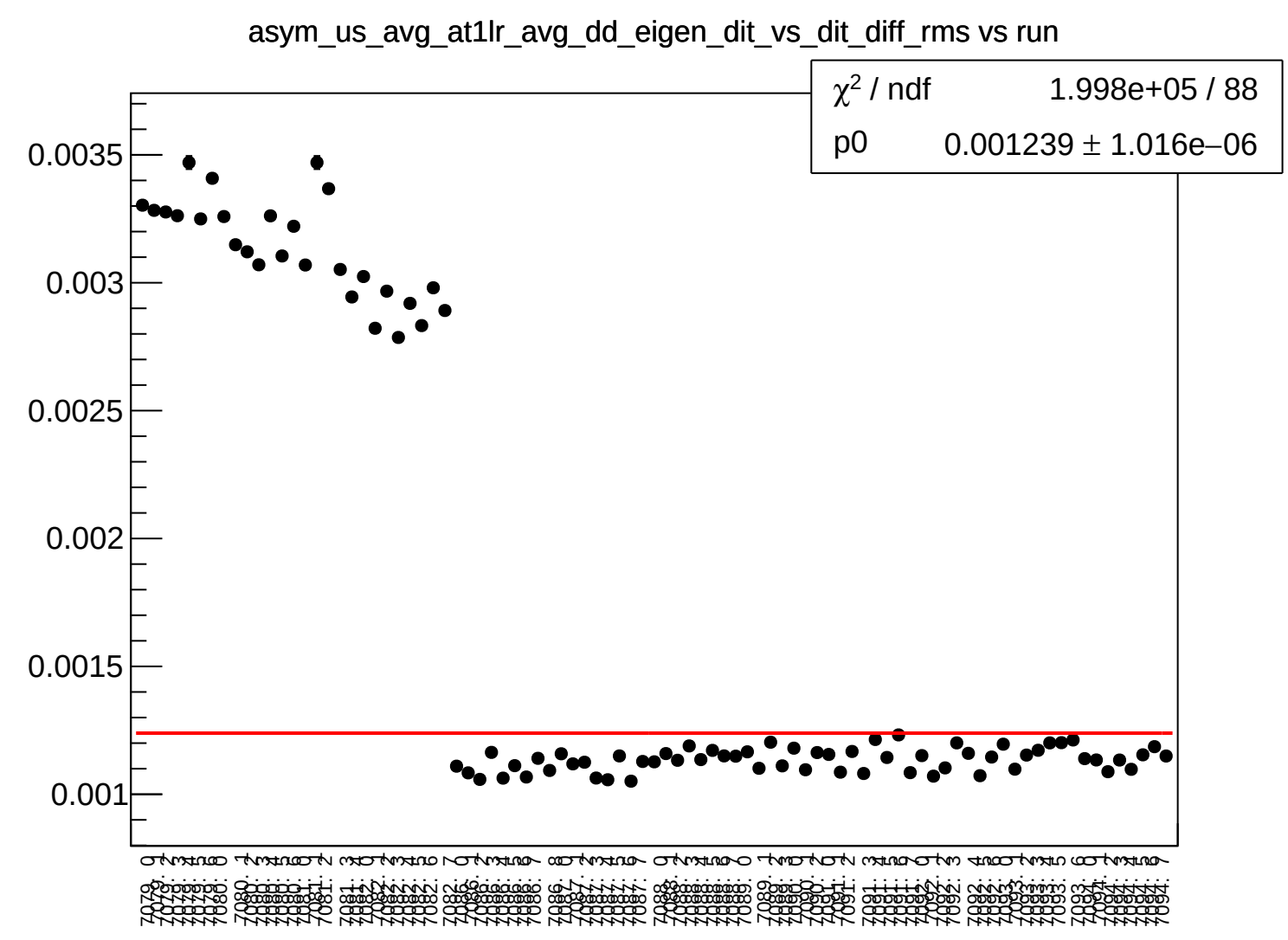

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.966e+05 / 88
p0 46.64 ± 0.03821
120
100
80
60
40
20

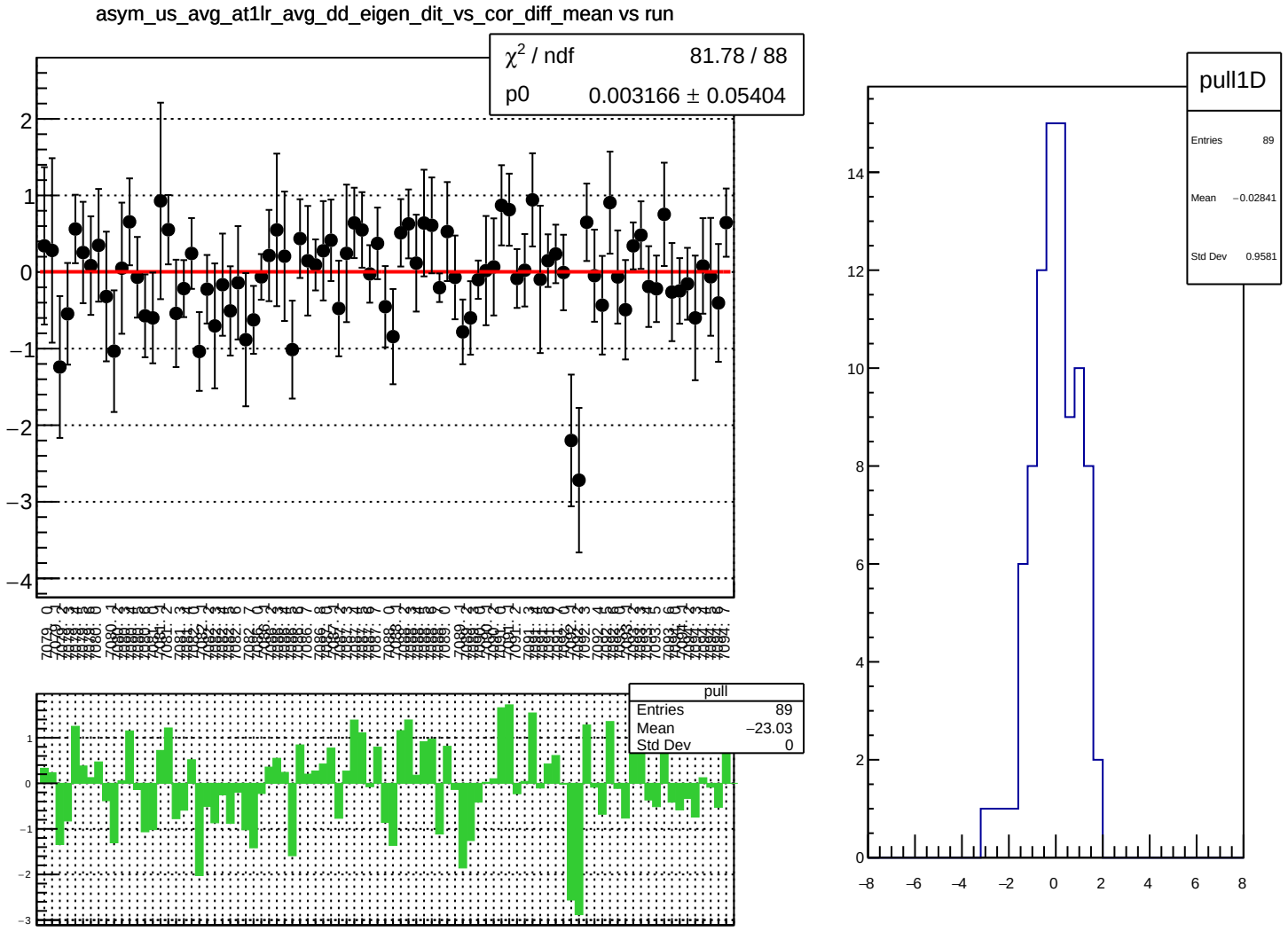

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.78 / 88
p0 0.00317 ± 0.05404
pull
Entries 89
Mean −23.02
Std Dev 0
pull1D
Entries 89
Mean −0.02841
Std Dev 0.9581

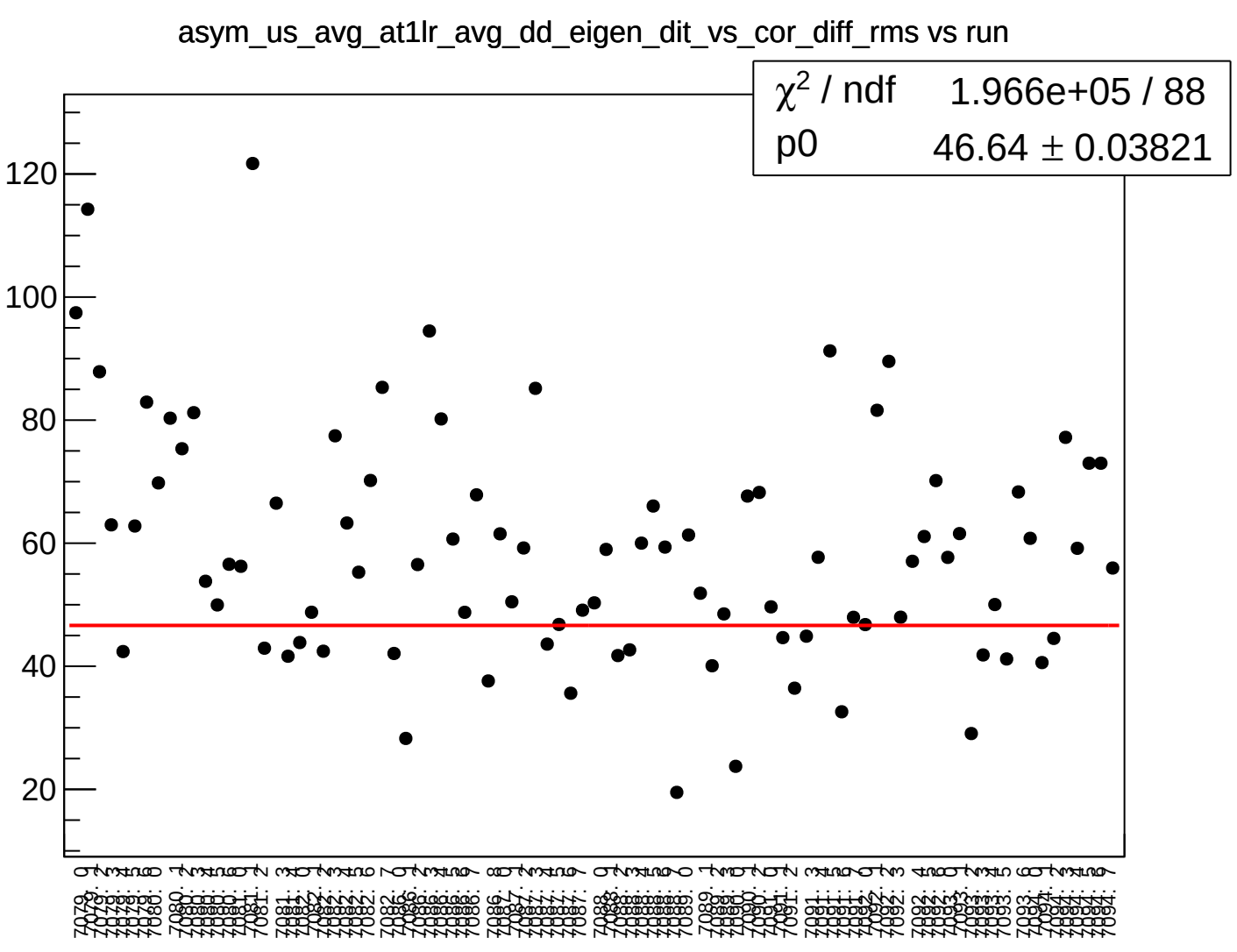

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.966e+05 / 88
p0 46.64 ± 0.03821
120
100
80
60
40
20

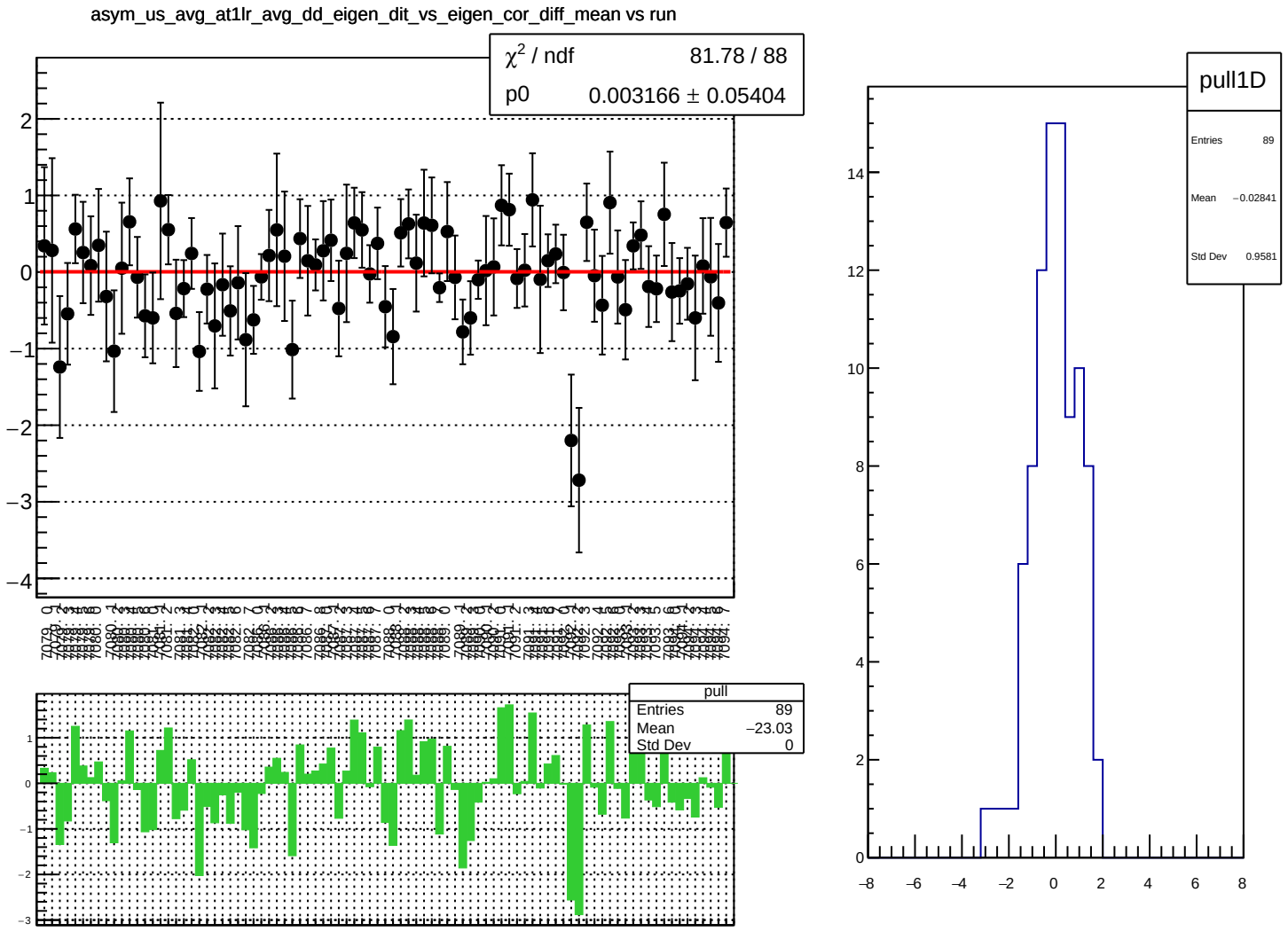

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.01 / 88
p0 −1.599e−06 ± 1.437e−06
pull
Entries 89
Mean 19.3
Std Dev 26.5

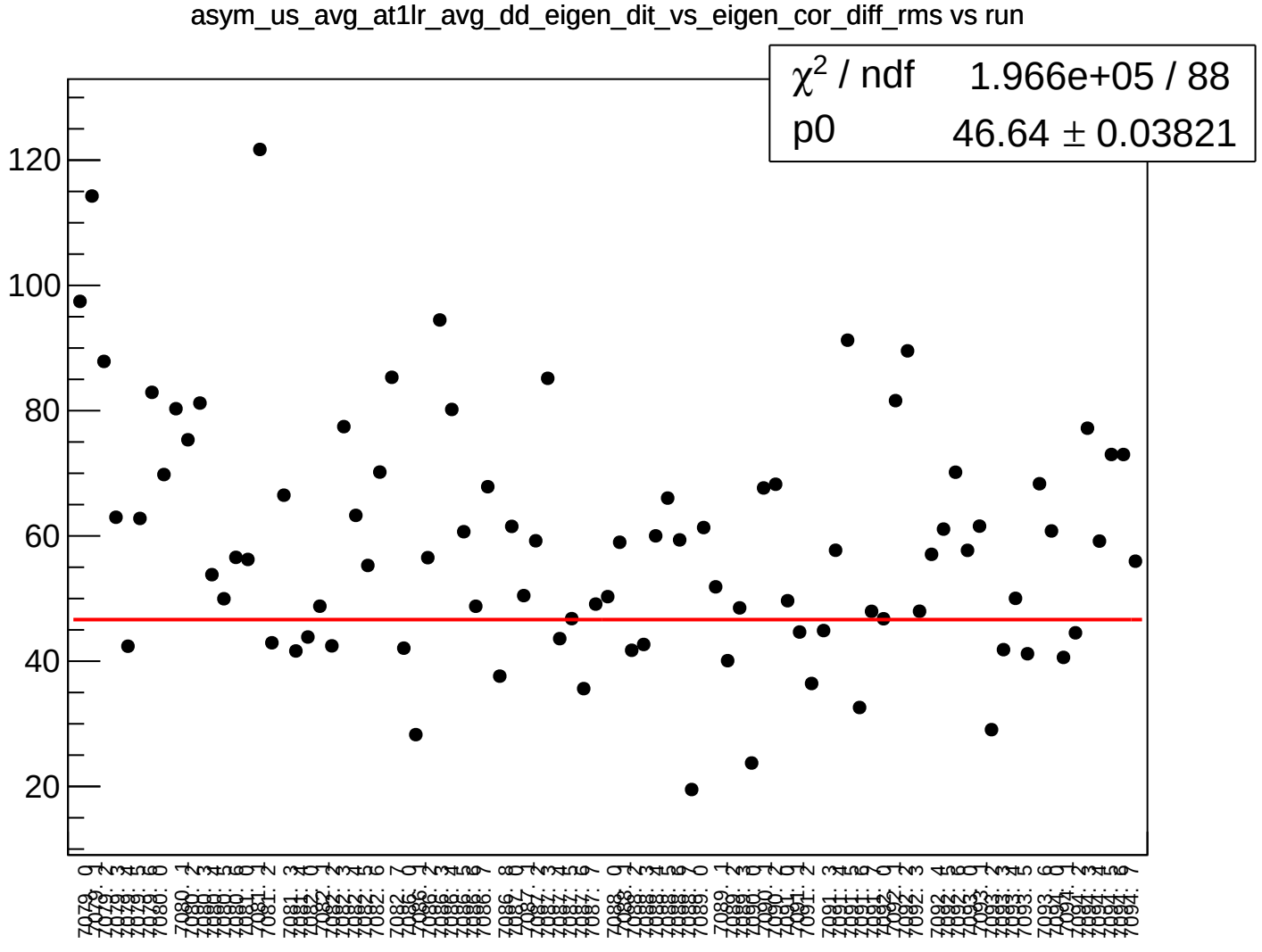

pull1D
Entries 89
Mean −0.04771
Std Dev 0.9106

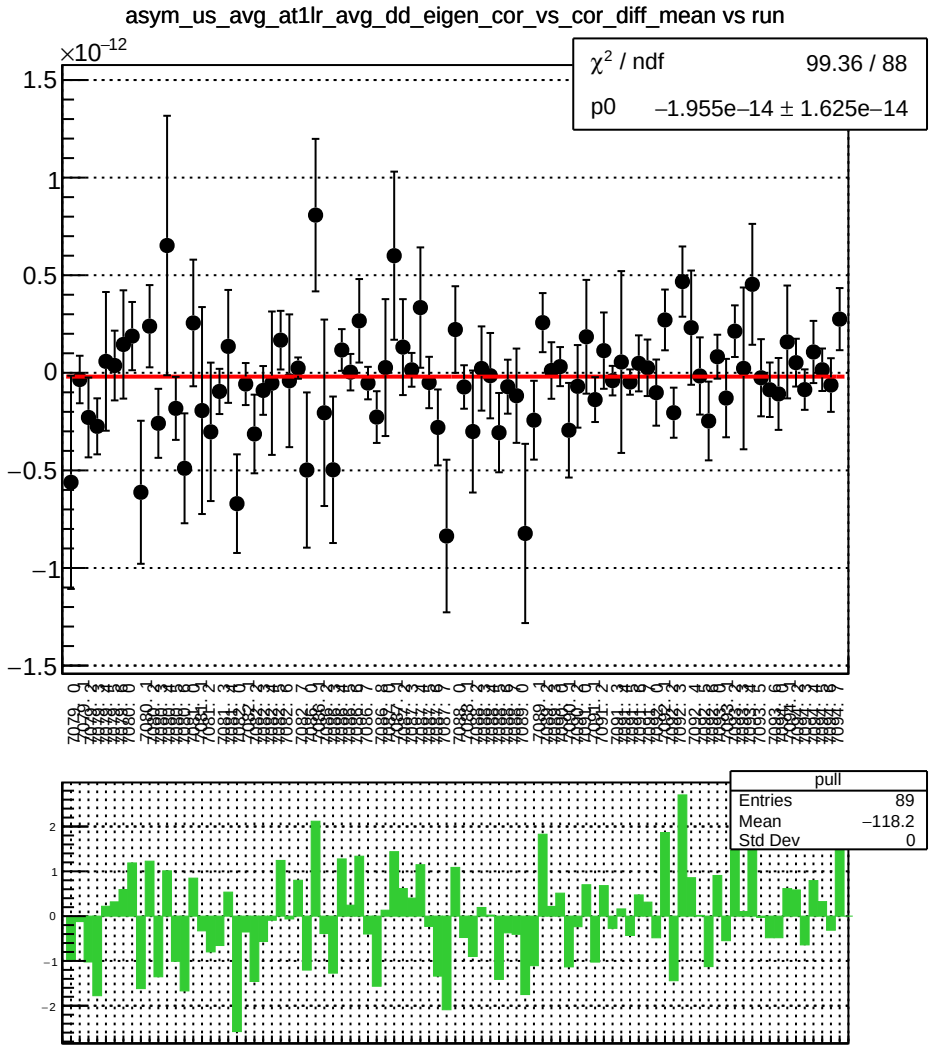

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.998e+05 / 88
p0 0.001239 ± 1.016e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

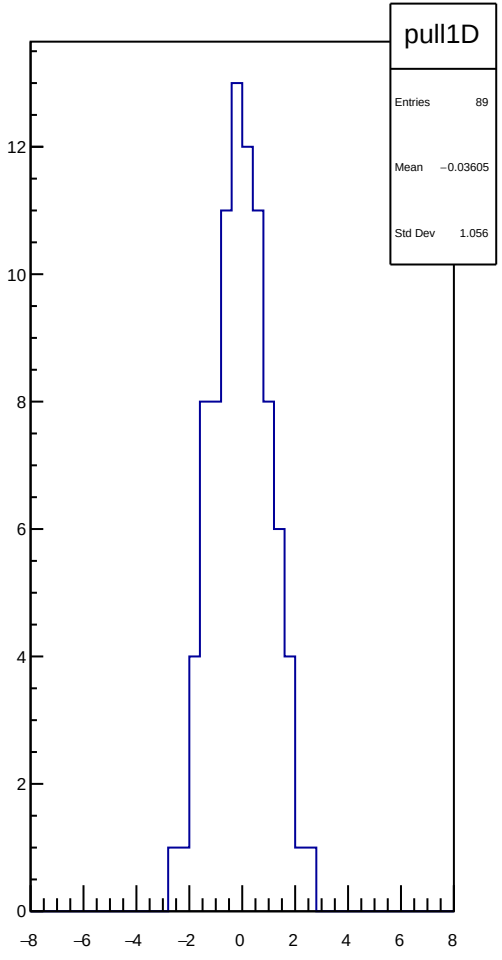

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.78 / 88
p0 0.003166 ± 0.05404
pull
Entries 89
Mean −23.03
Std Dev 0
pull1D
Entries 89
Mean −0.02841
Std Dev 0.9581

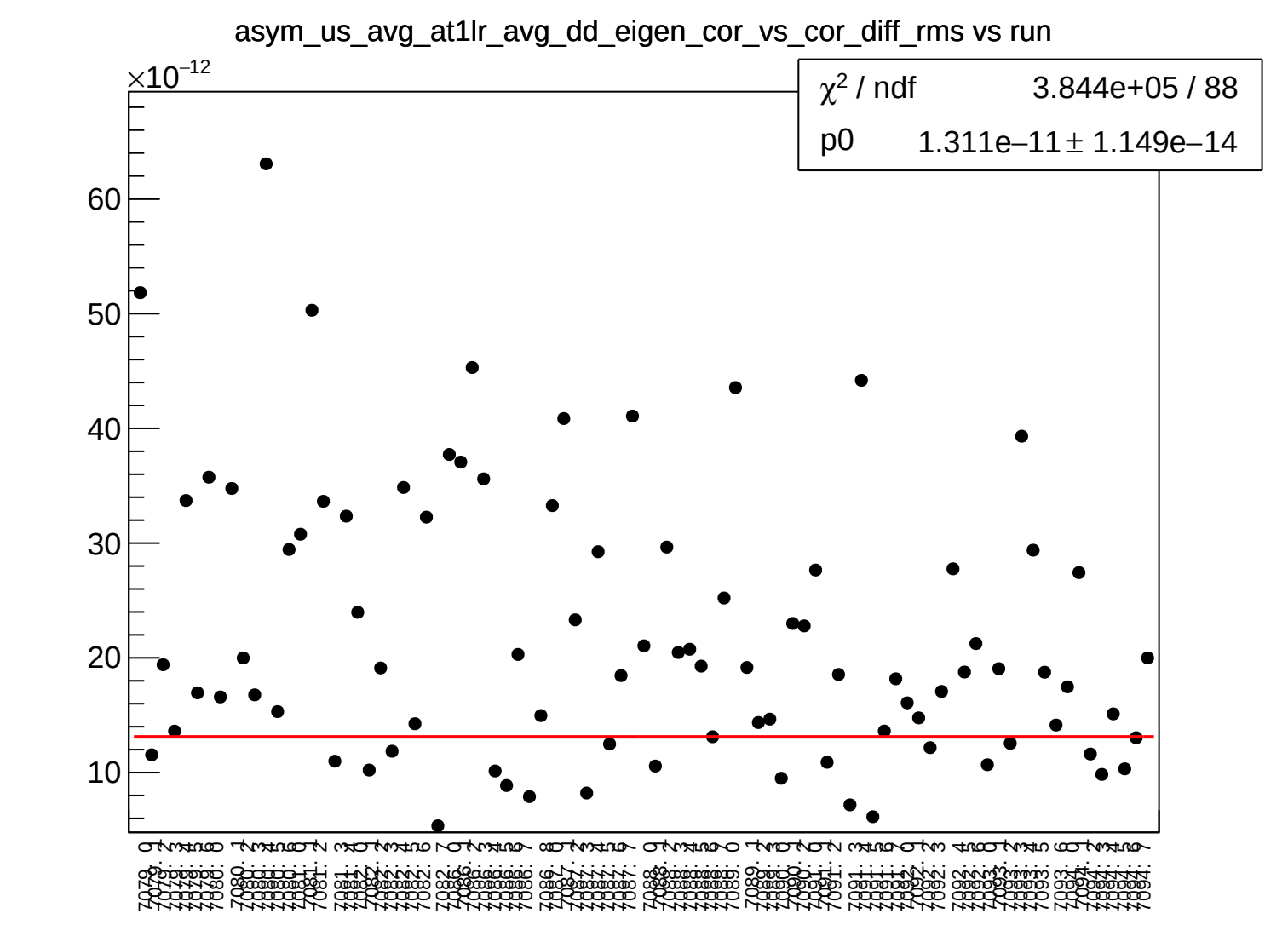

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.966e+05 / 88
p0 46.64 ± 0.03821
120
100
80
60
40
20

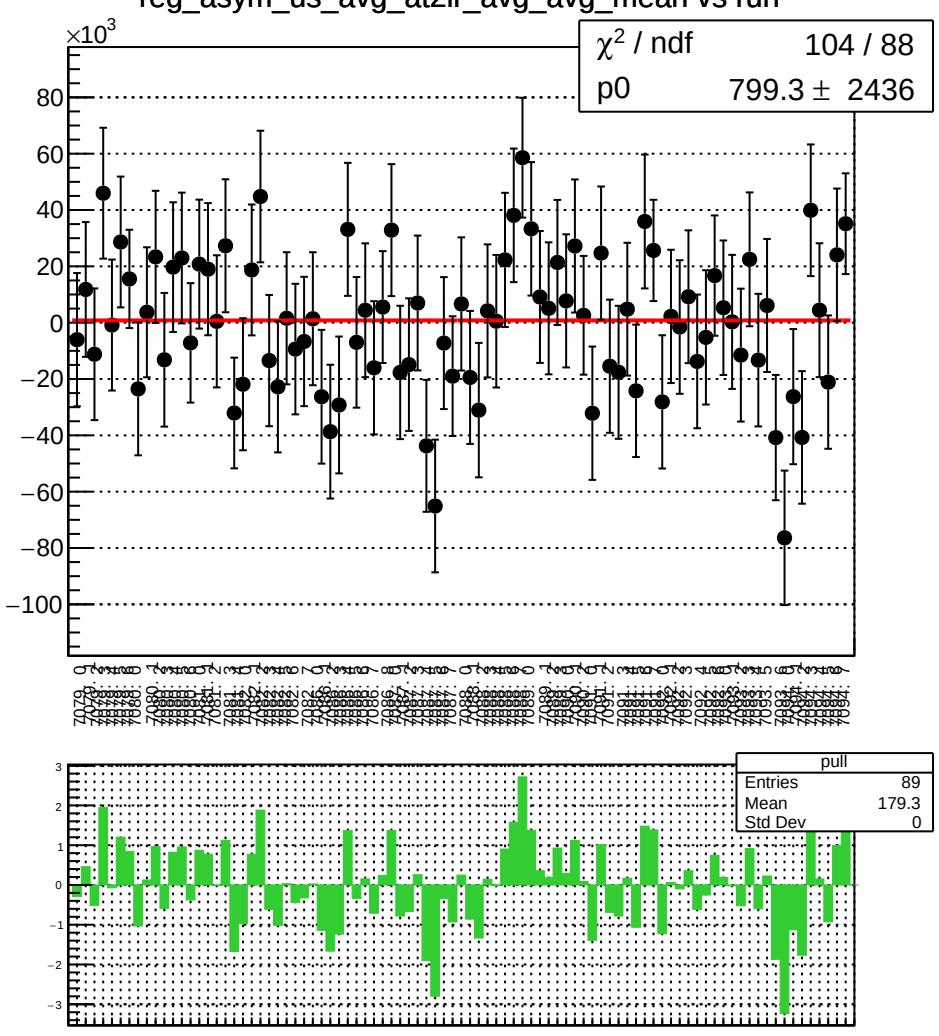

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.78 / 88
p0 0.003166 ± 0.05404
pull
Entries 89
Mean −23.03
Std Dev 0
pull1D
Entries 89
Mean −0.02841
Std Dev 0.9581

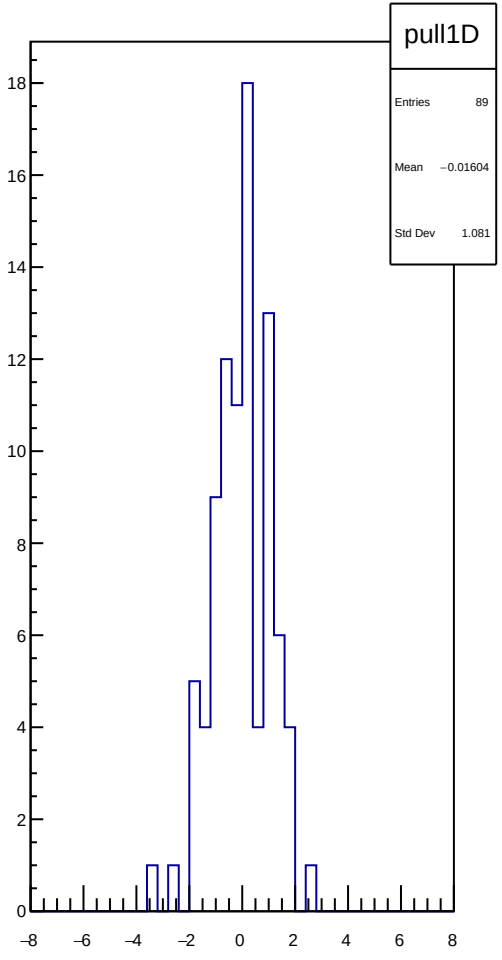

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.966e+05 / 88
p0 46.64 ± 0.03821
120
100
80
60
40
20

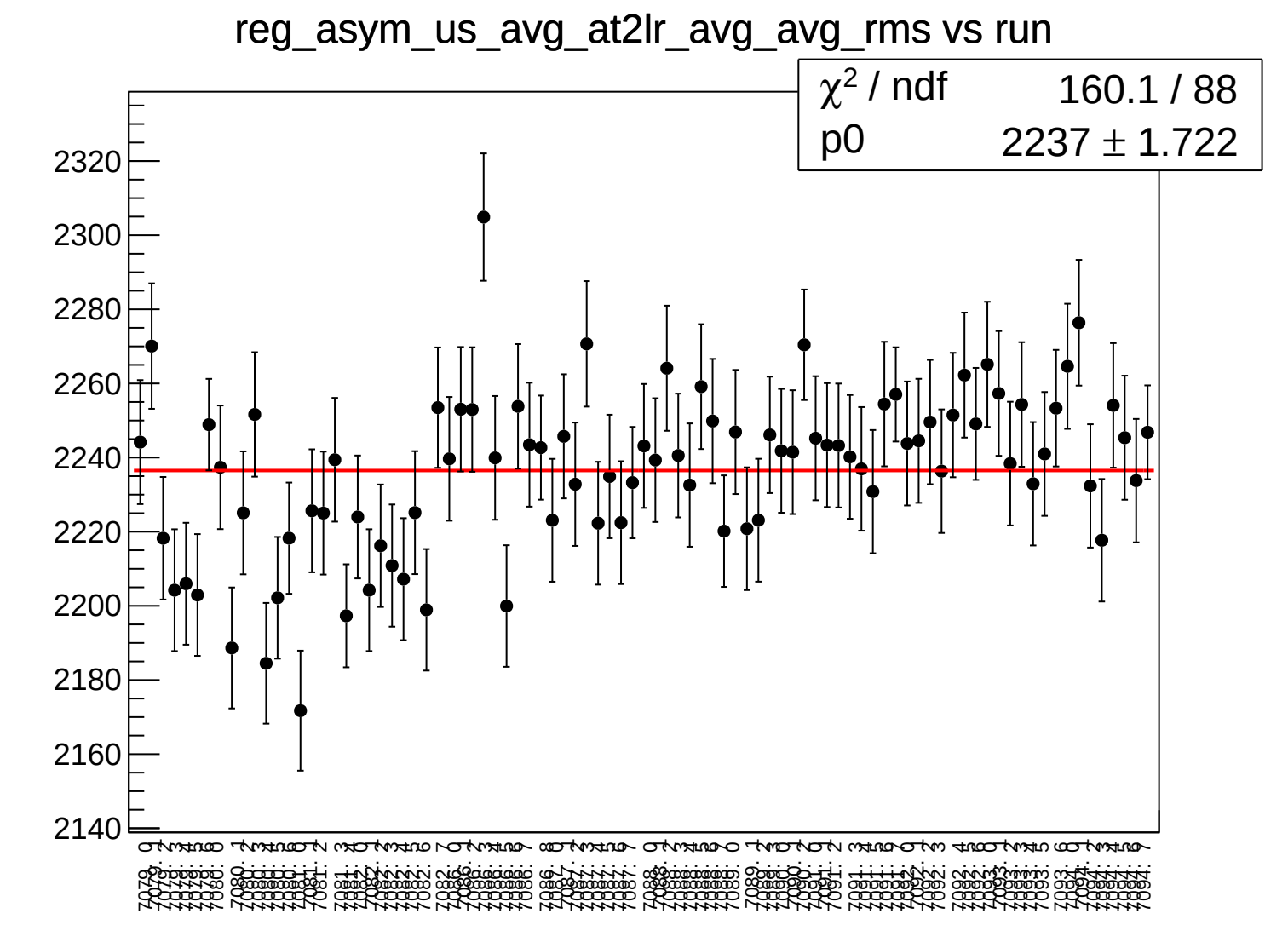

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.36 / 88
p0 −1.955e−14 ± 1.625e−14
pull
Entries 89
Mean −118.2
Std Dev 0

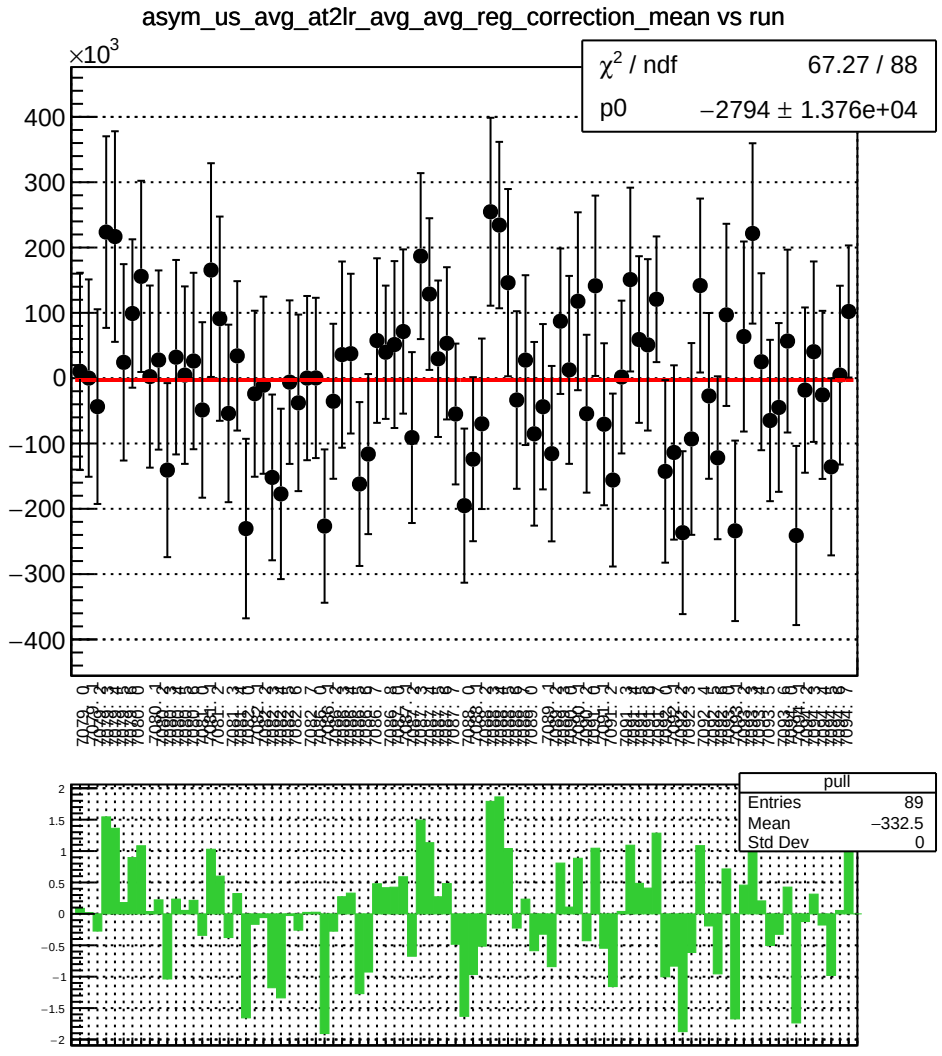

pull1D
Entries 89
Mean −0.03605
Std Dev 1.056

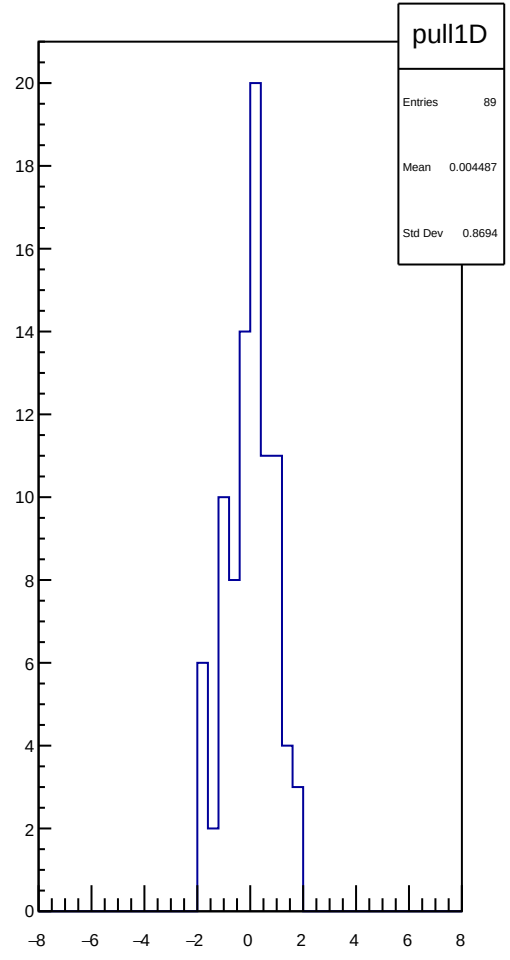

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.844e+05 / 88
p0 1.311e−11 ± 1.149e−14
60
50
40
30
20
10

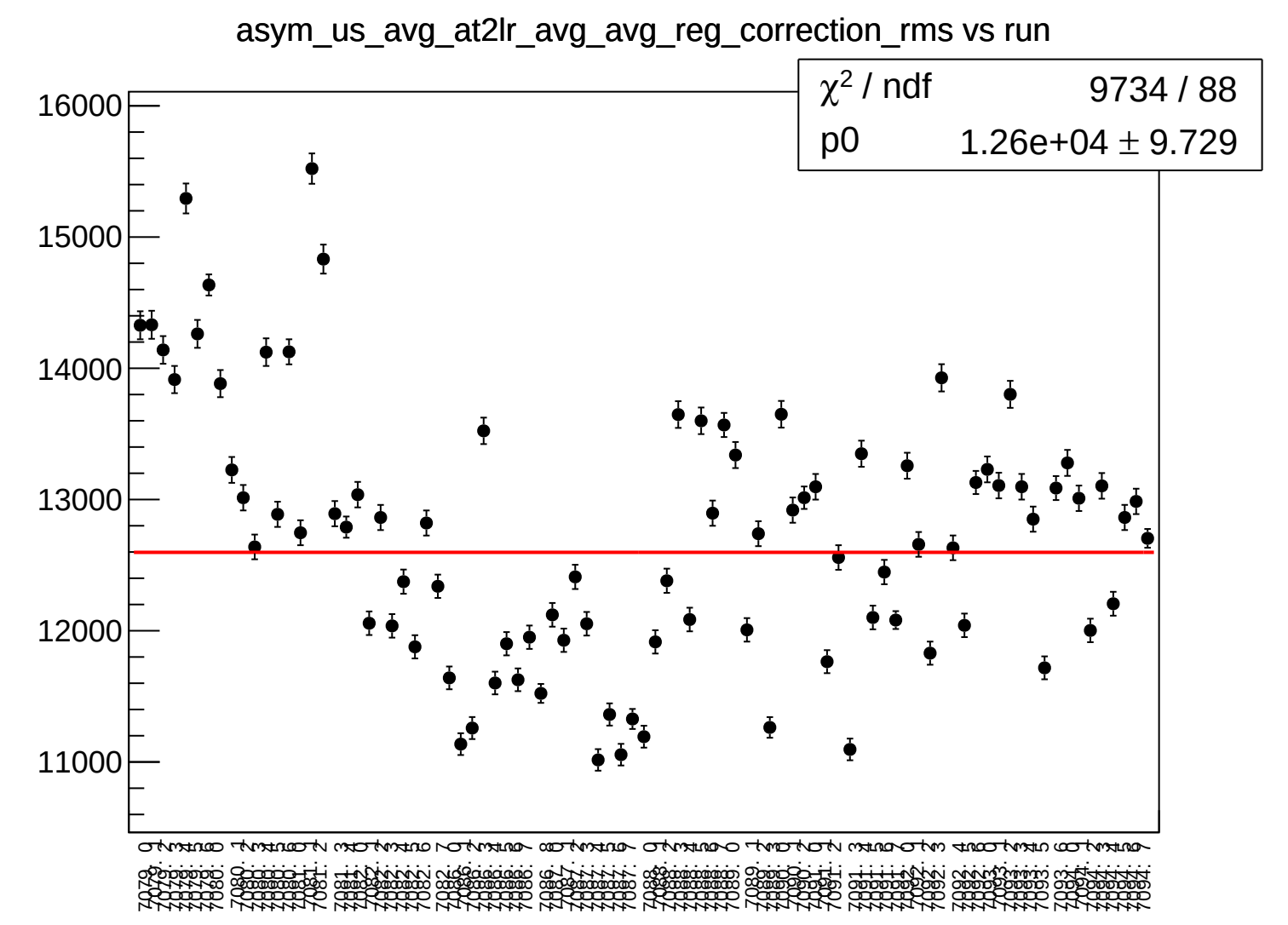

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 104 / 88
p0 799.3 ± 2436
pull
Entries 89
Mean 179.3
Std Dev 0

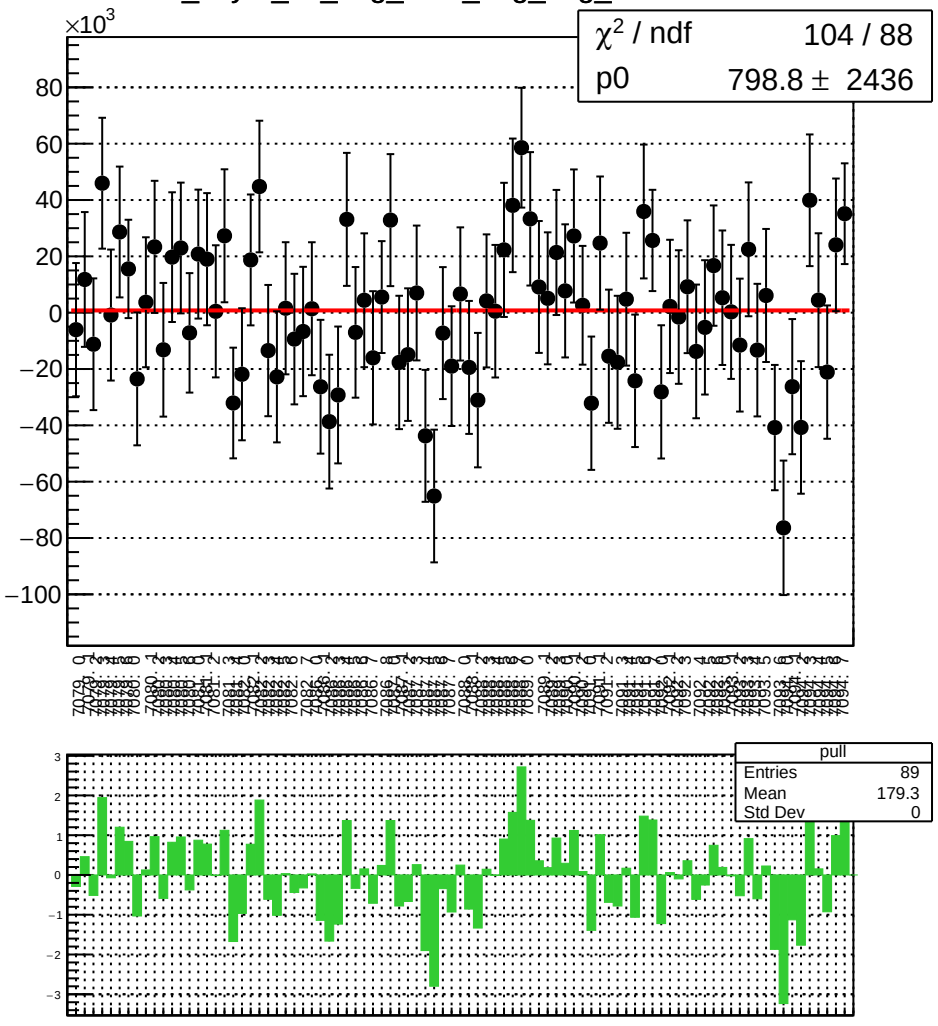

pull1D
Entries 89
Mean −0.01604
Std Dev 1.081

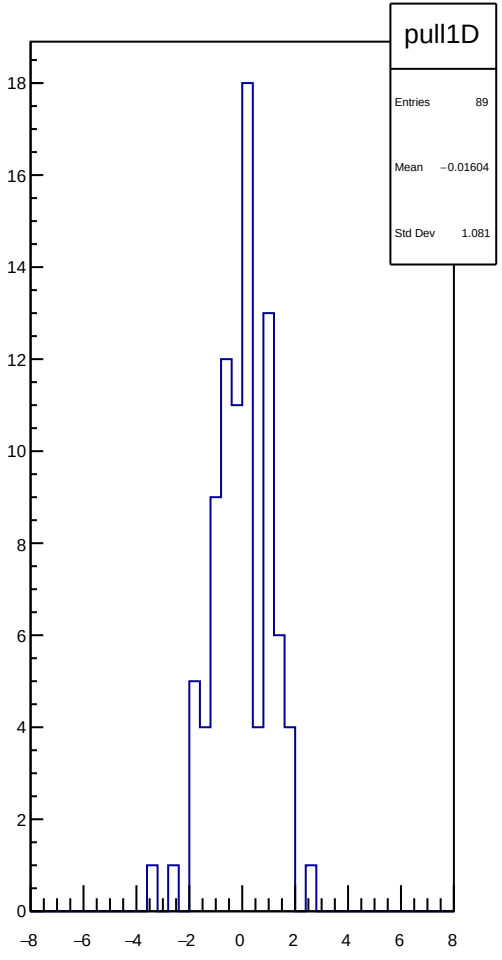

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 160.1 / 88
p0 2237 ± 1.722
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

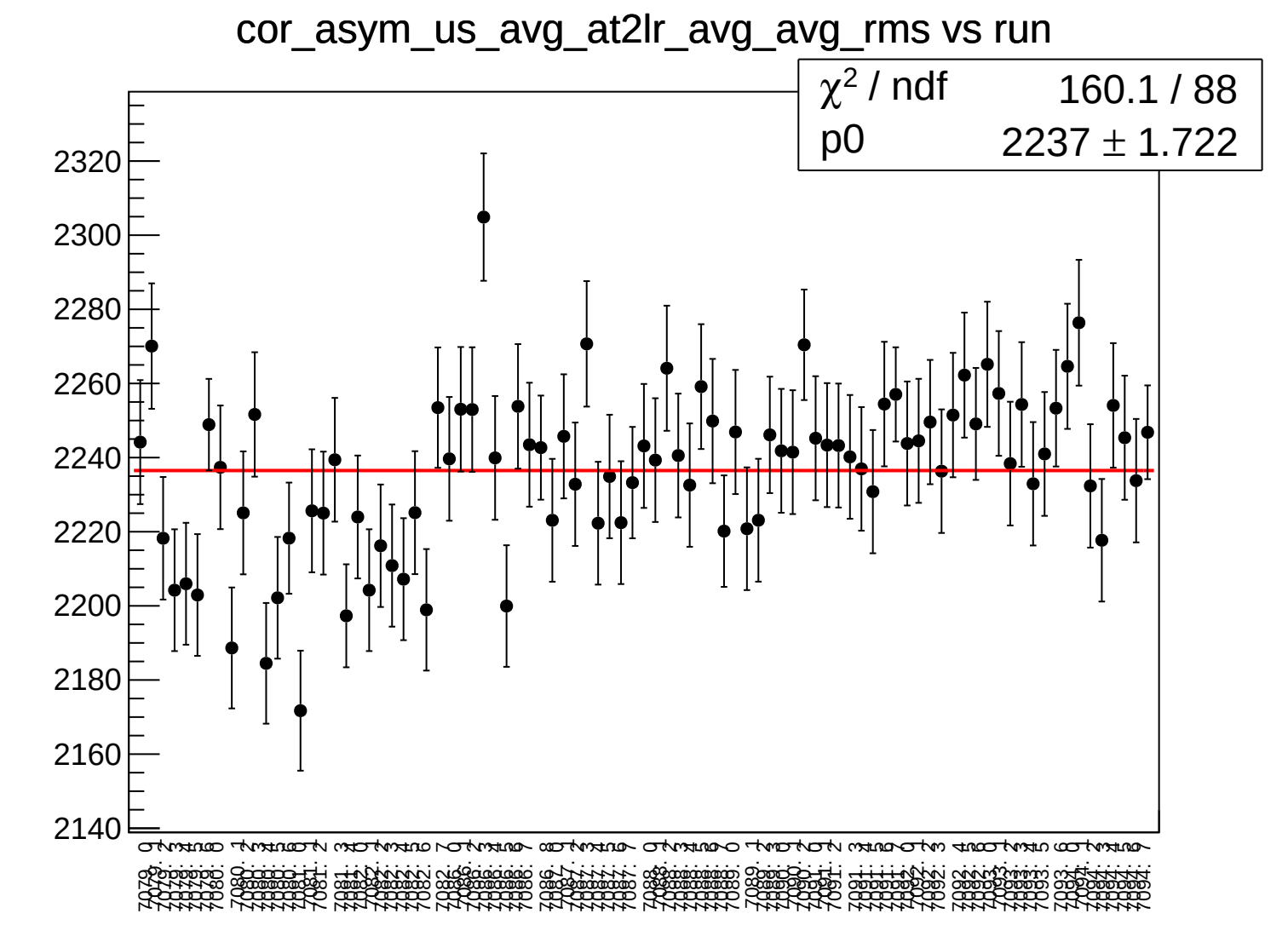

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 67.27 / 88
p0 −2794 ± 1.376e+04
pull
Entries 89
Mean −332.5
Std Dev 0

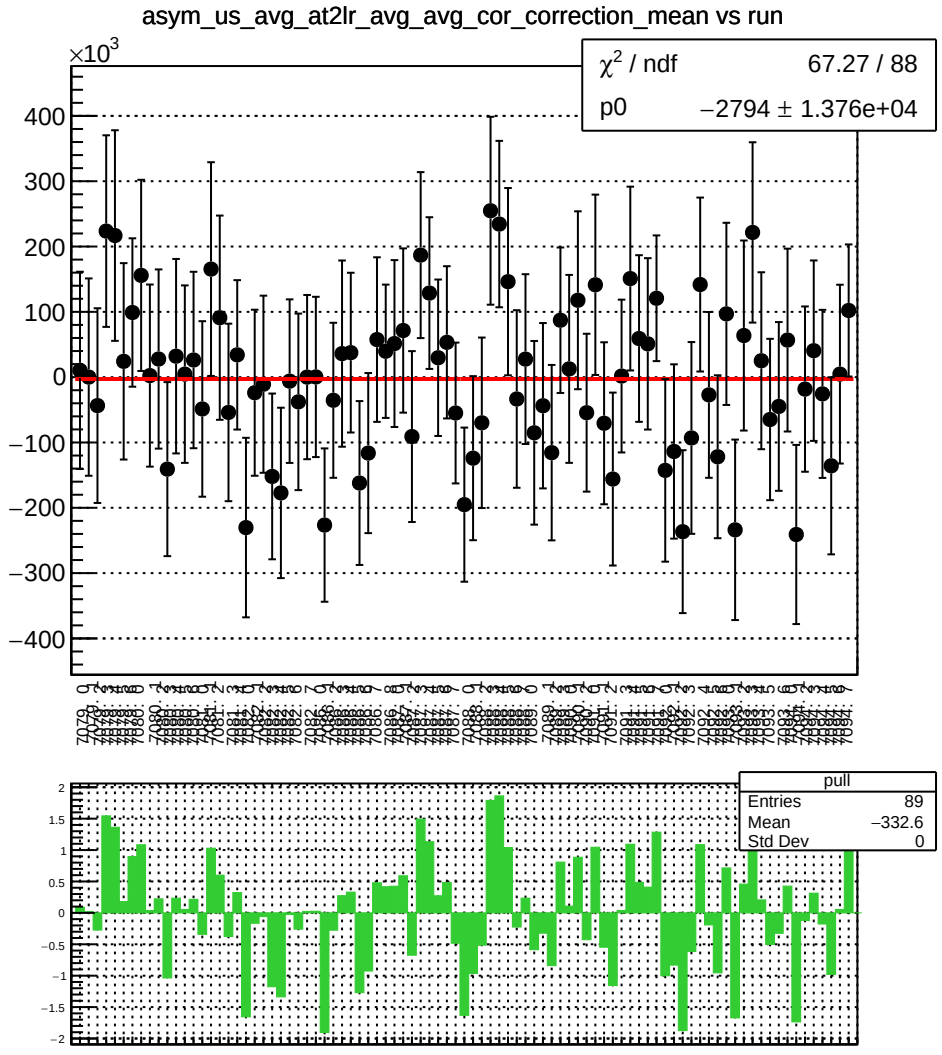

pull1D
Entries 89
Mean 0.004487
Std Dev 0.8694

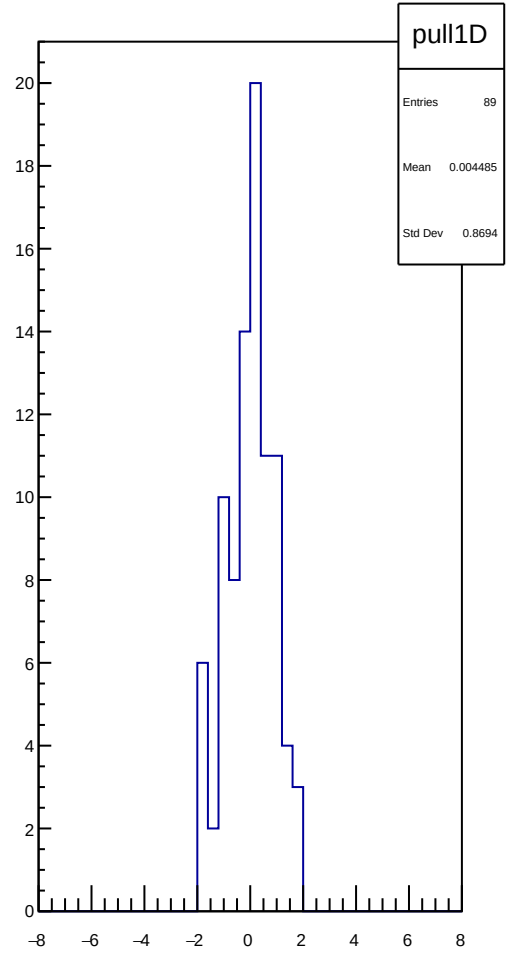

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 9734 / 88
p0 1.26e+04 ± 9.729
16000
15000
14000
13000
12000
11000

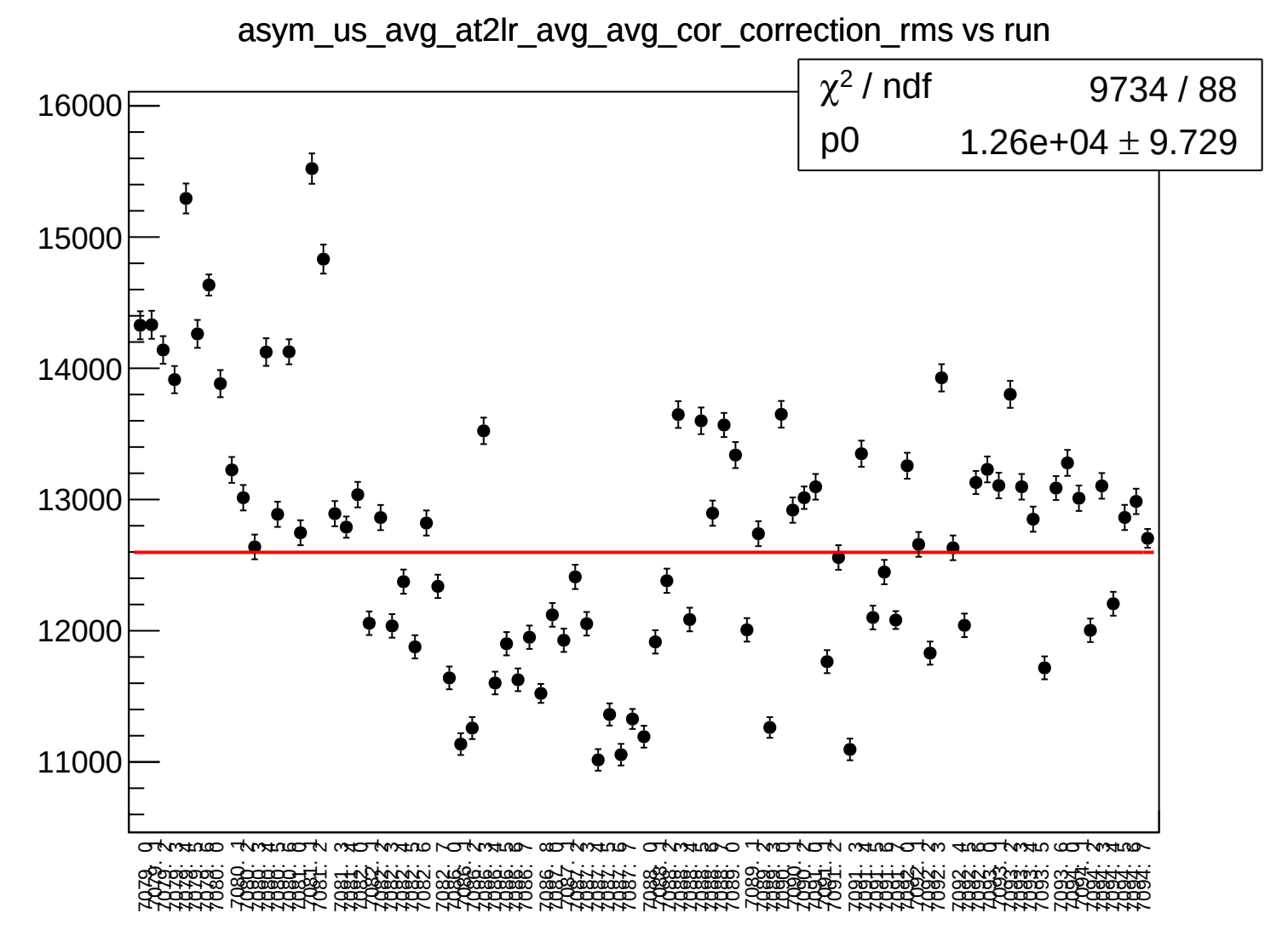

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 104 / 88
p0 798.8 ± 2436
pull
Entries 89
Mean 179.3
Std Dev 0

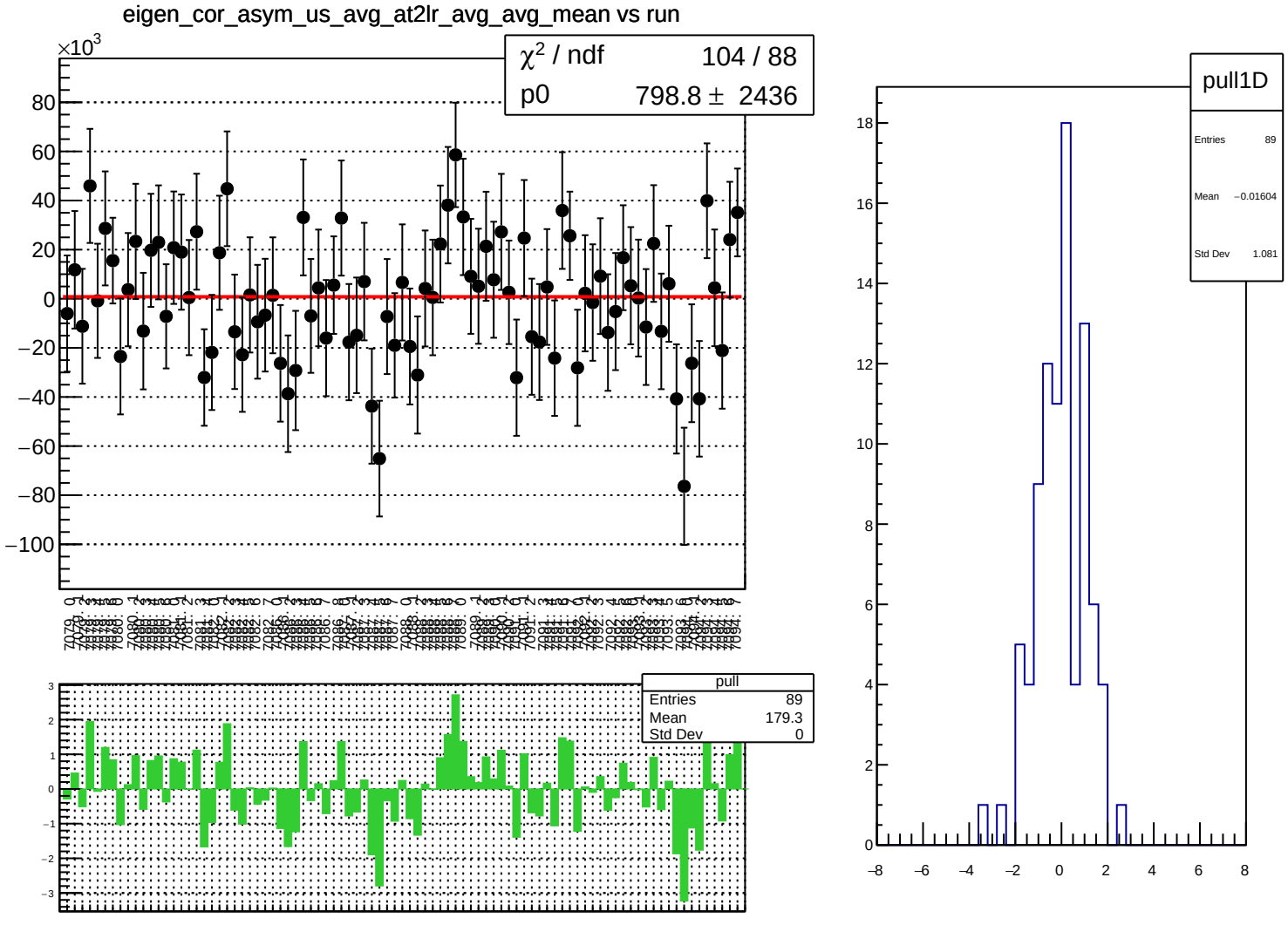

pull1D
Entries 89
Mean −0.01604
Std Dev 1.081

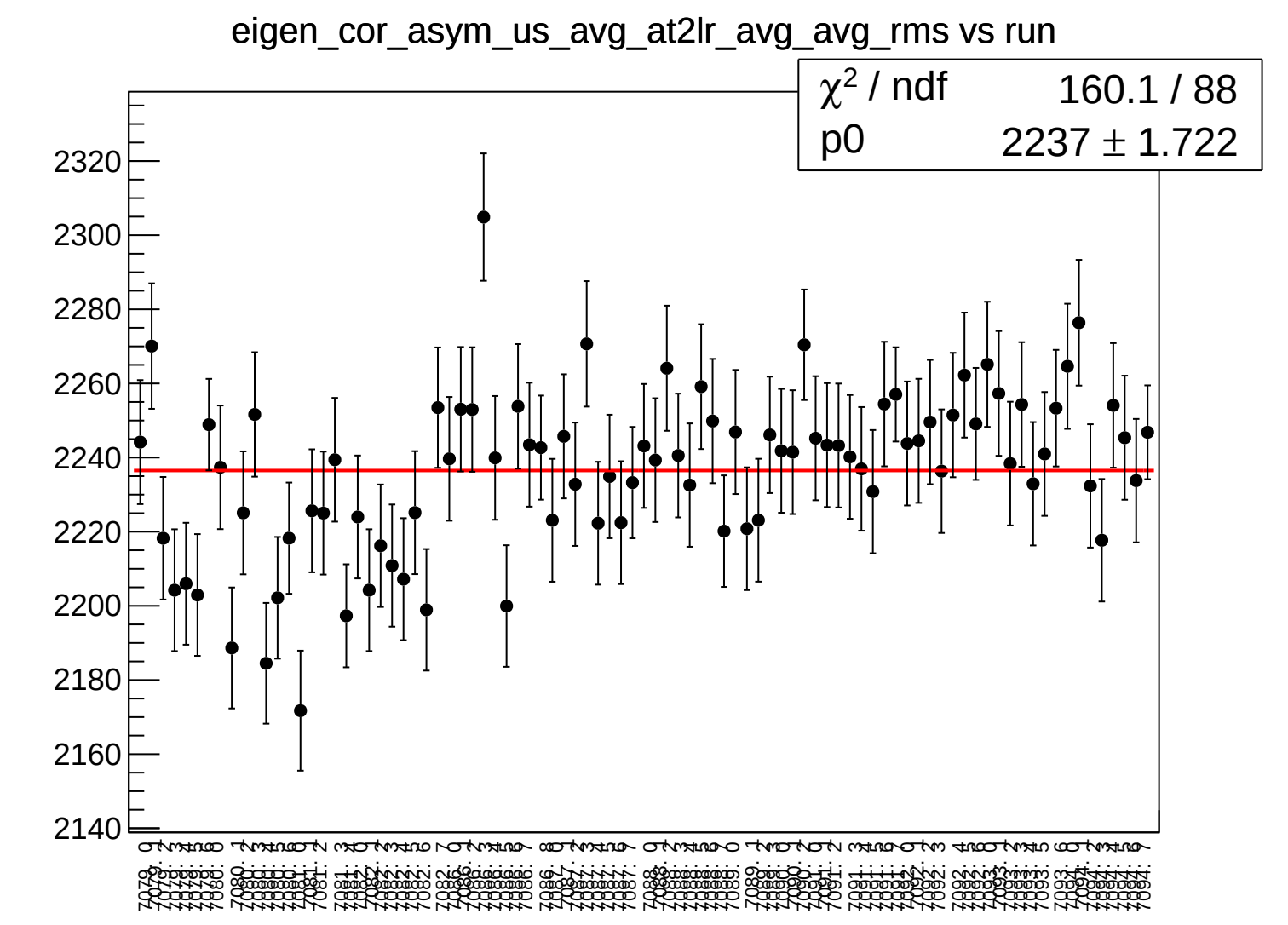

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 160.1 / 88
p0 2237 ± 1.722
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

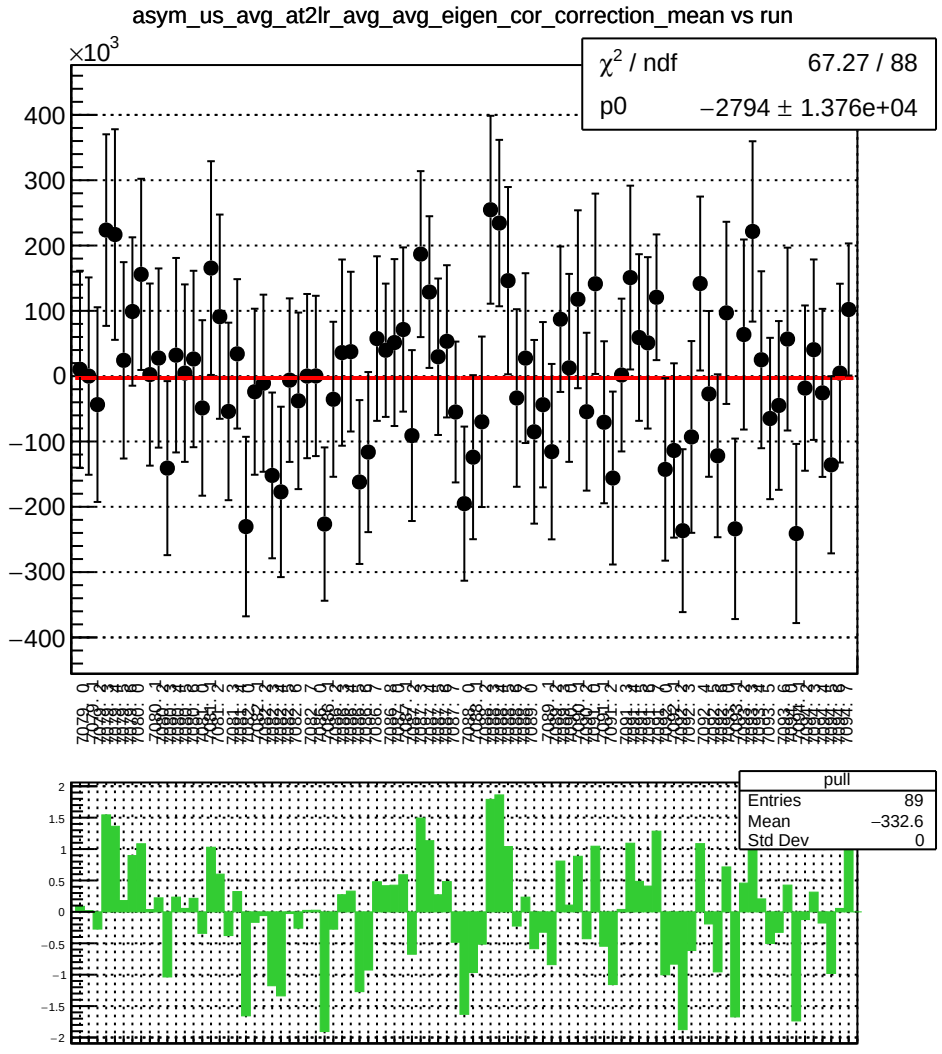

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 67.27 / 88
p0 −2794 ± 1.376e+04
pull
Entries 89
Mean −332.6
Std Dev 0

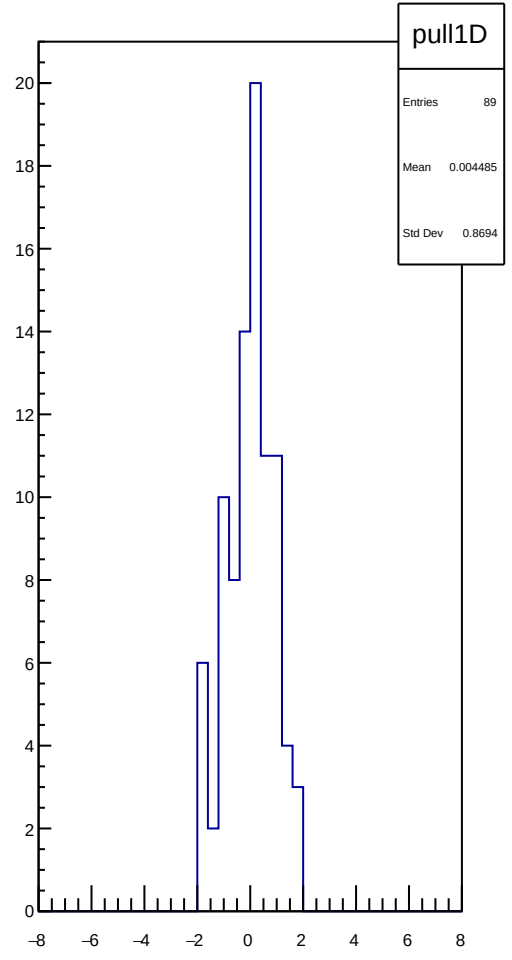

pull1D
Entries 89
Mean 0.004485
Std Dev 0.8694

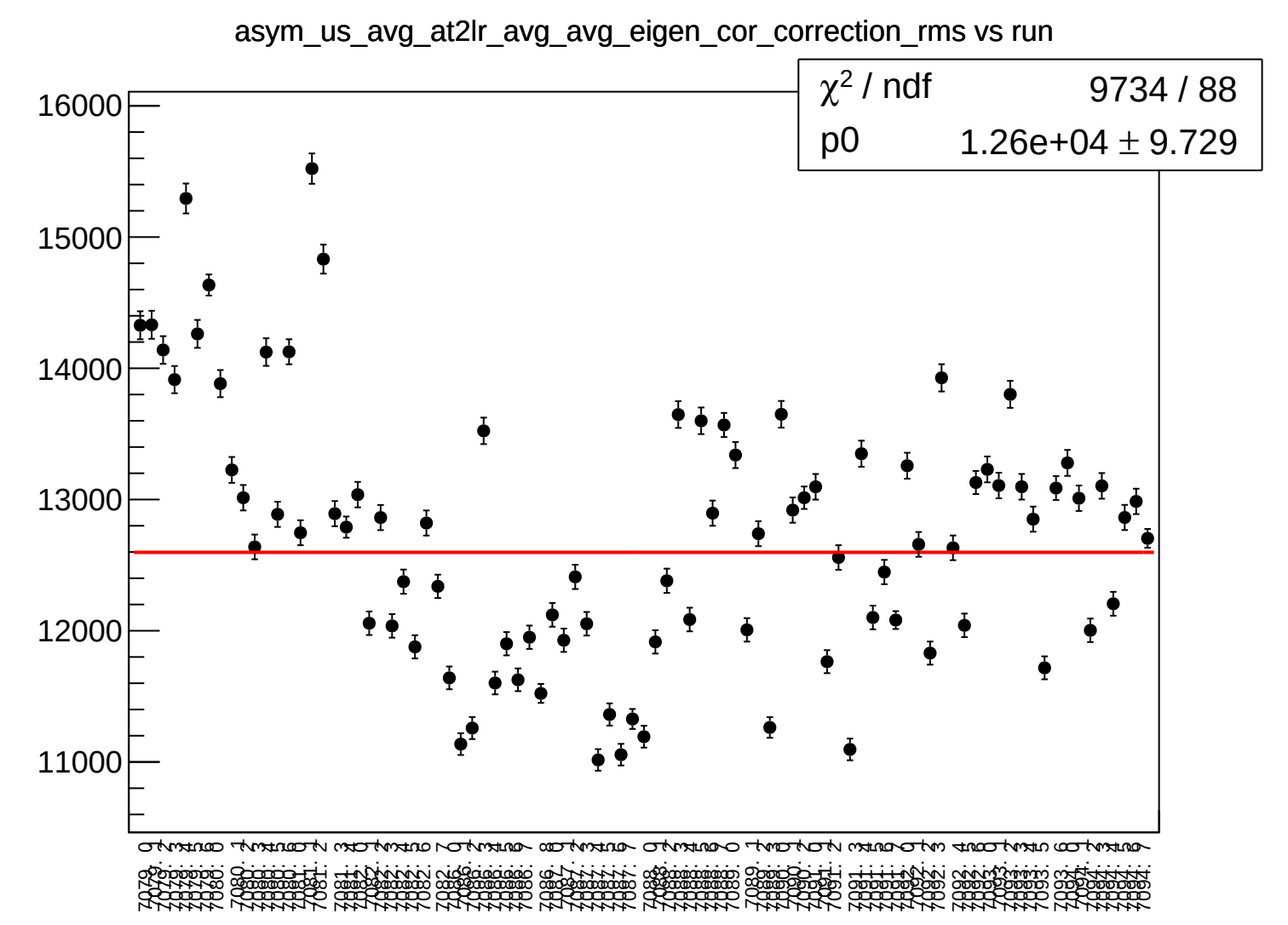

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 9734 / 88
p0 1.26e+04 ± 9.729
16000
15000
14000
13000
12000
11000

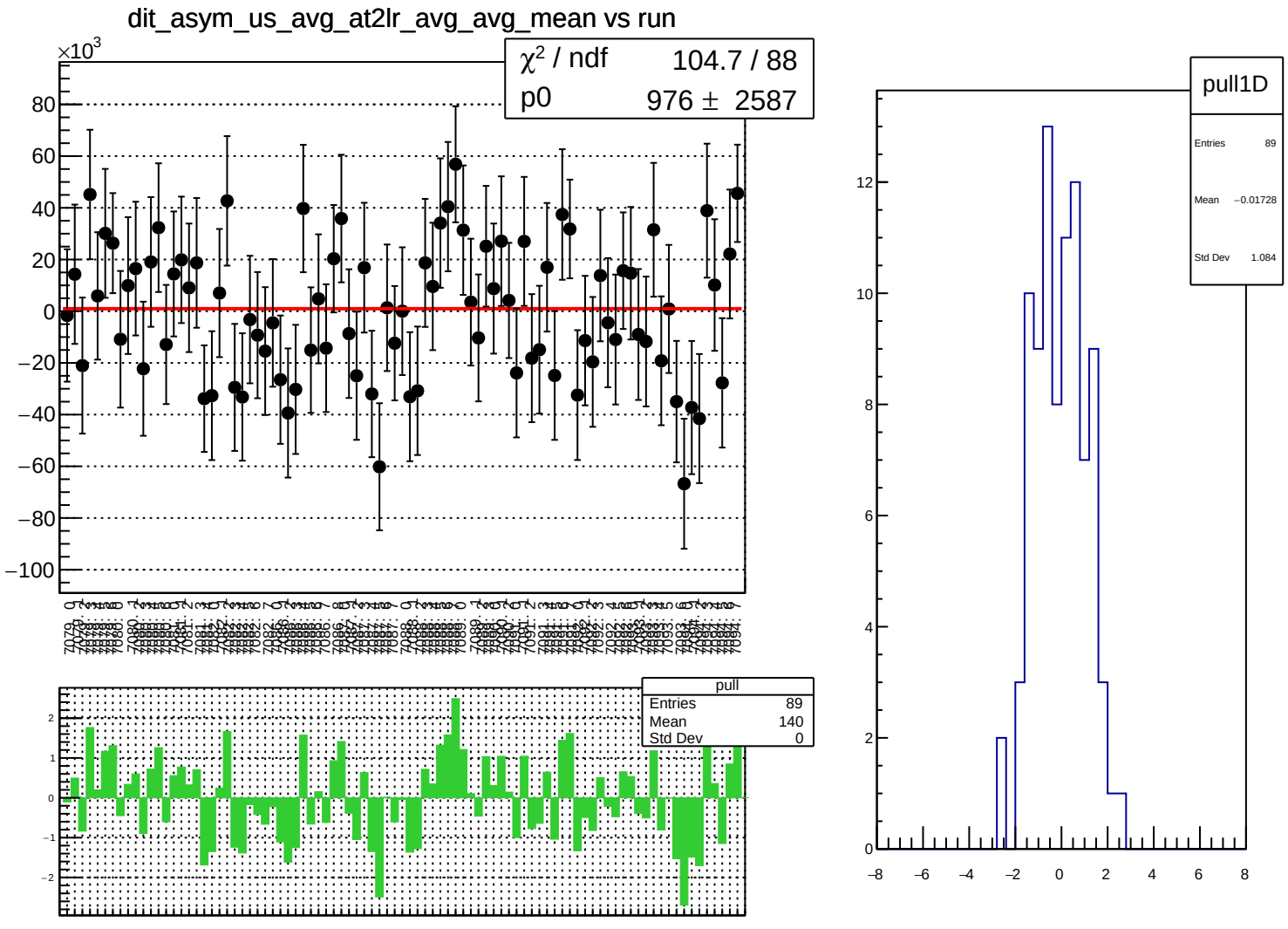

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 104 / 88
p0 798.8 ± 2436
×10³
pull
Entries 89
Mean 179.3
Std Dev 0
pull1D
Entries 89
Mean −0.01604
Std Dev 1.081

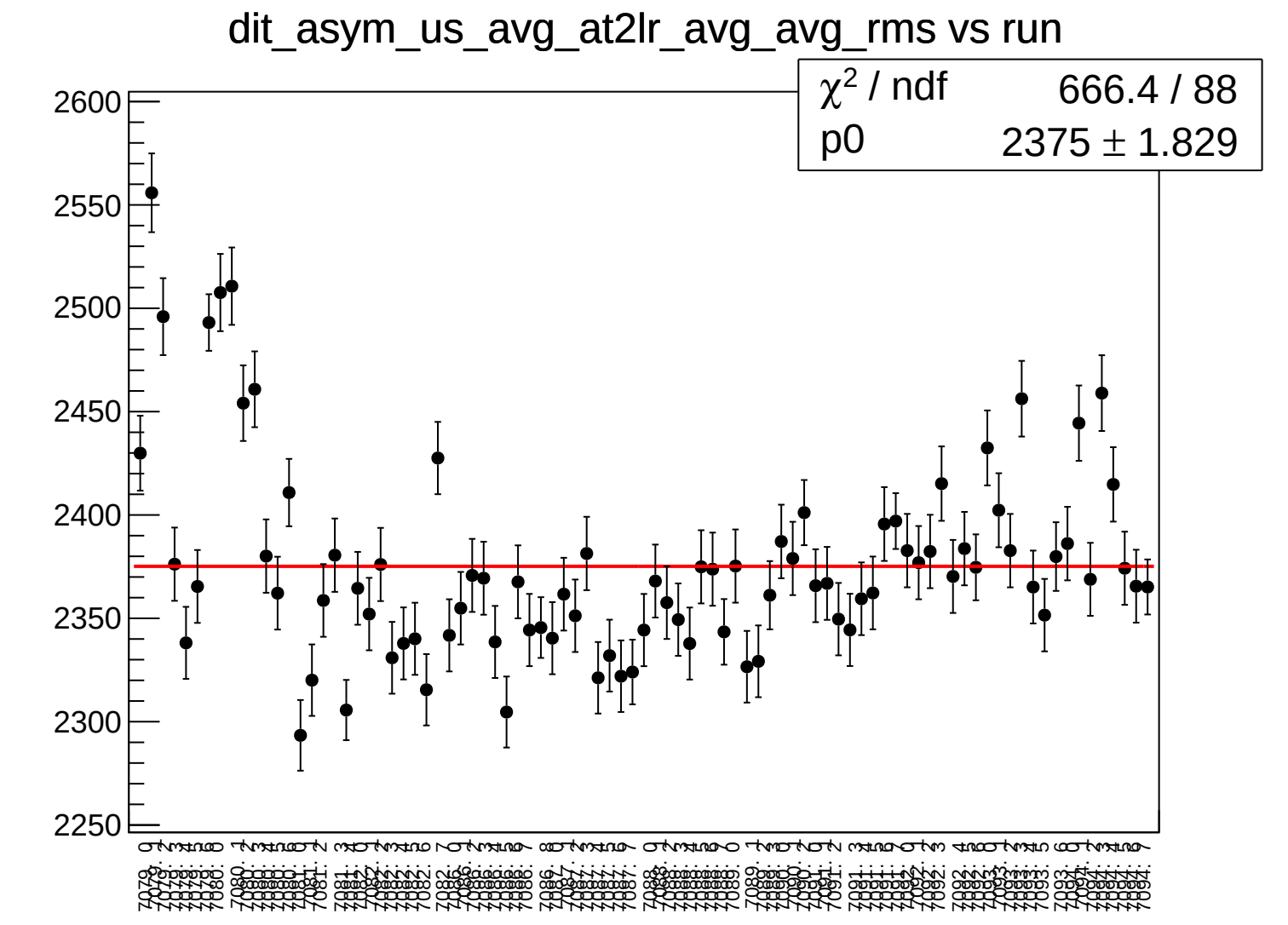

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 160.1 / 88
p0 2237 ± 1.722
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

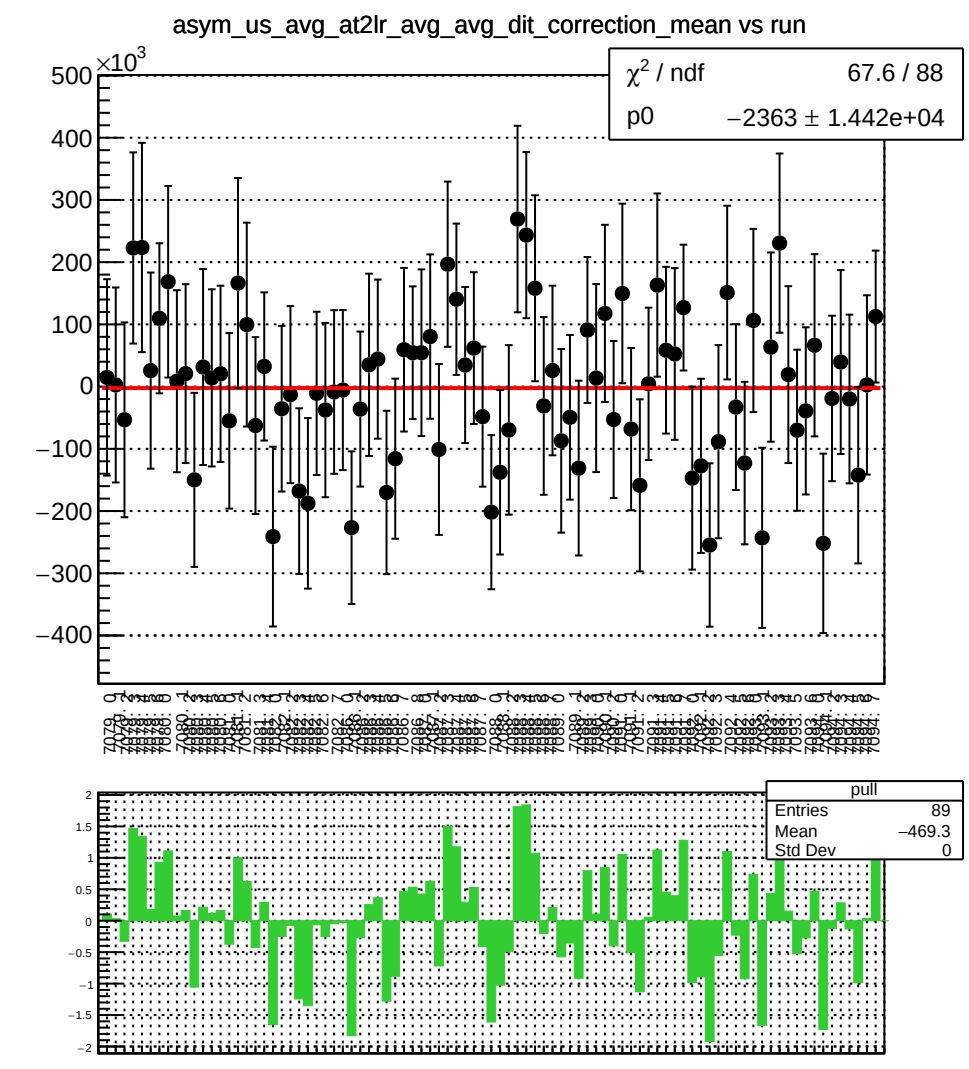

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.27 / 88
p0 −2794 ± 1.376e+04
pull
Entries 89
Mean −332.6
Std Dev 0

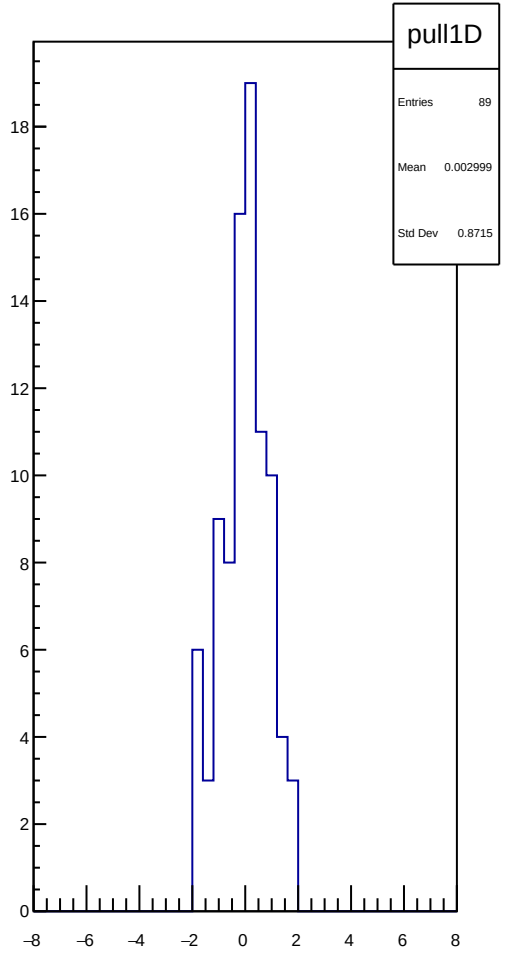

pull1D
Entries 89
Mean 0.004485
Std Dev 0.8694

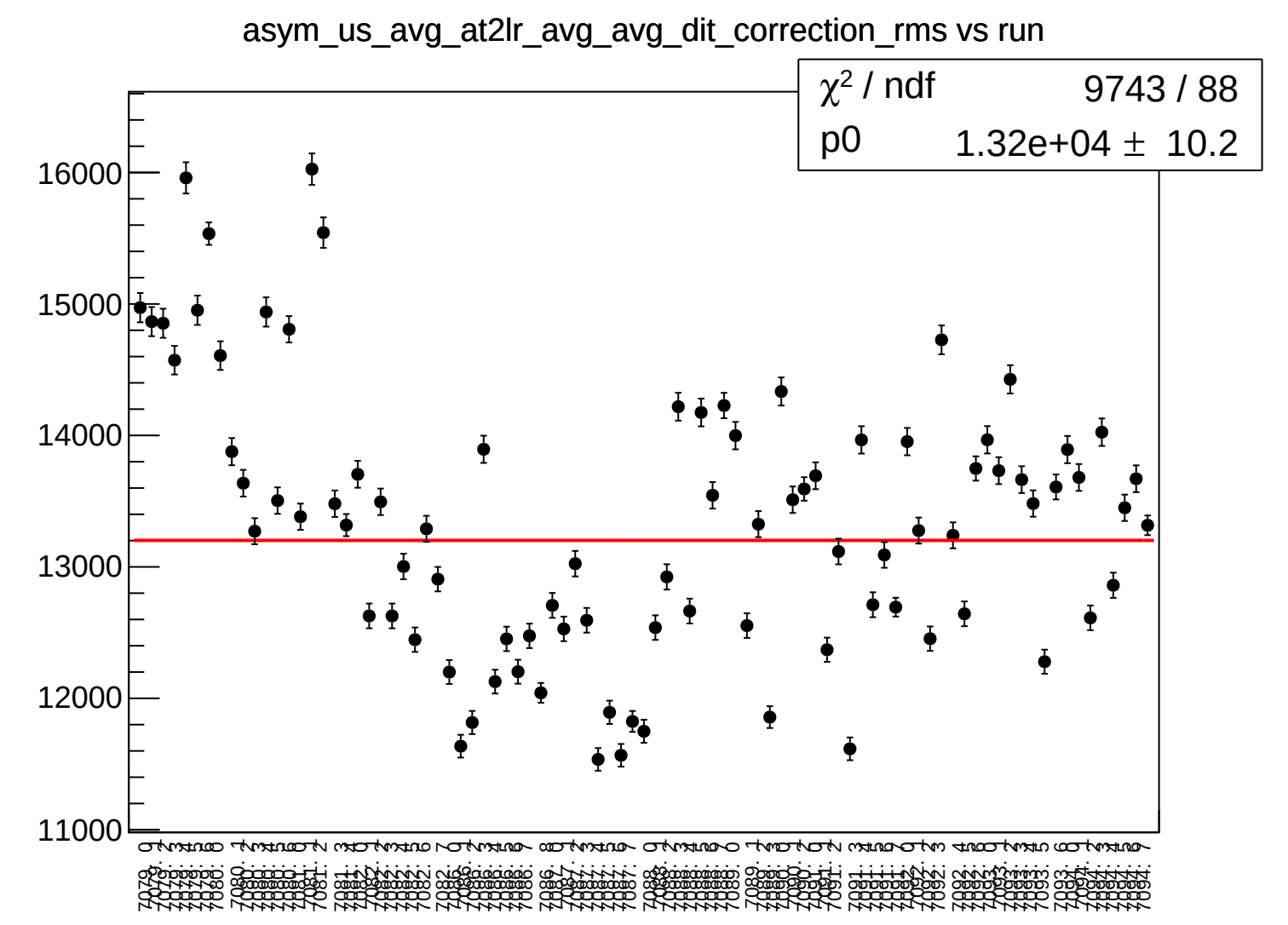

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 9734 / 88
p0 1.26e+04 ± 9.729
16000
15000
14000
13000
12000
11000

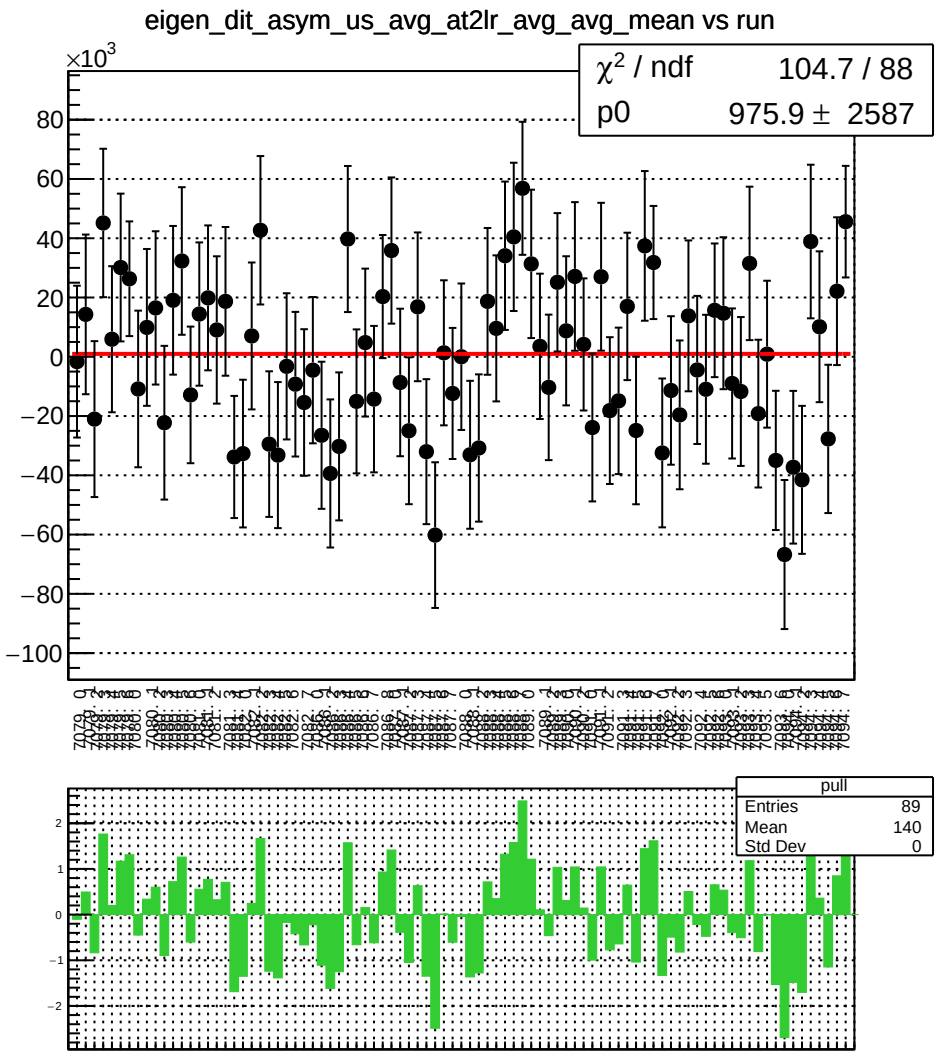

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 104.7 / 88
p0 976 ± 2587
pull
Entries 89
Mean 140
Std Dev 0
pull1D
Entries 89
Mean −0.01728
Std Dev 1.084

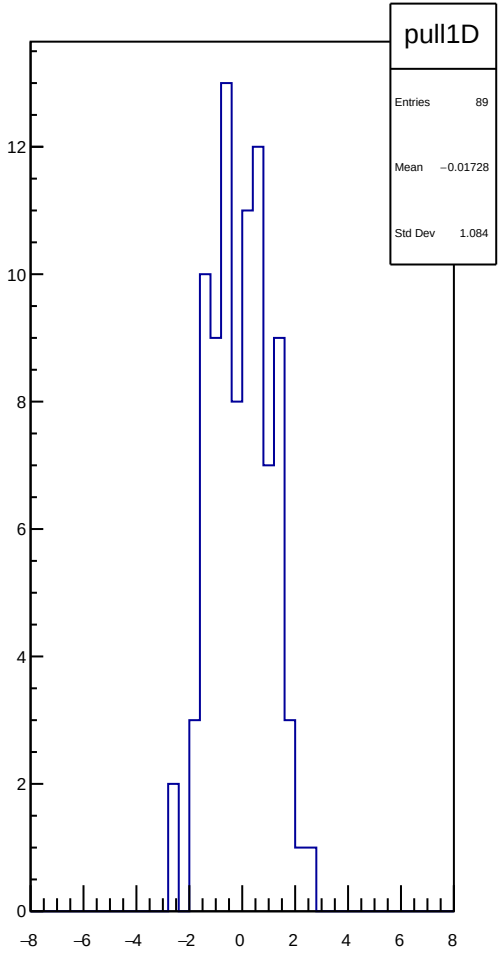

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 666.4 / 88
p0 2375 ± 1.829
2600
2550
2500
2450
2400
2350
2300
2250

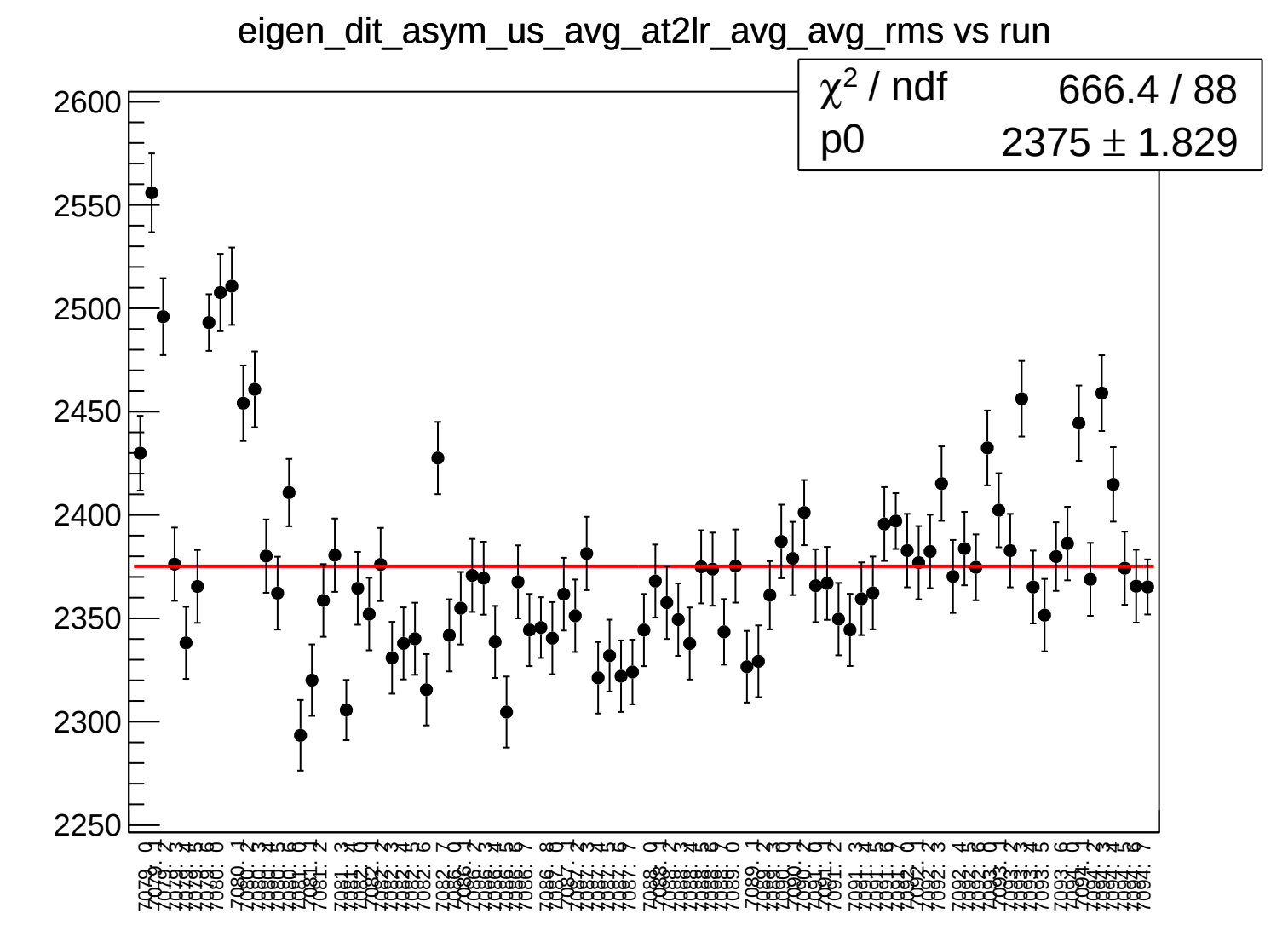

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
χ² / ndf 67.6 / 88
p0 −2363 ± 1.442e+04
×10³
pull
Entries 89
Mean −469.3
Std Dev 0

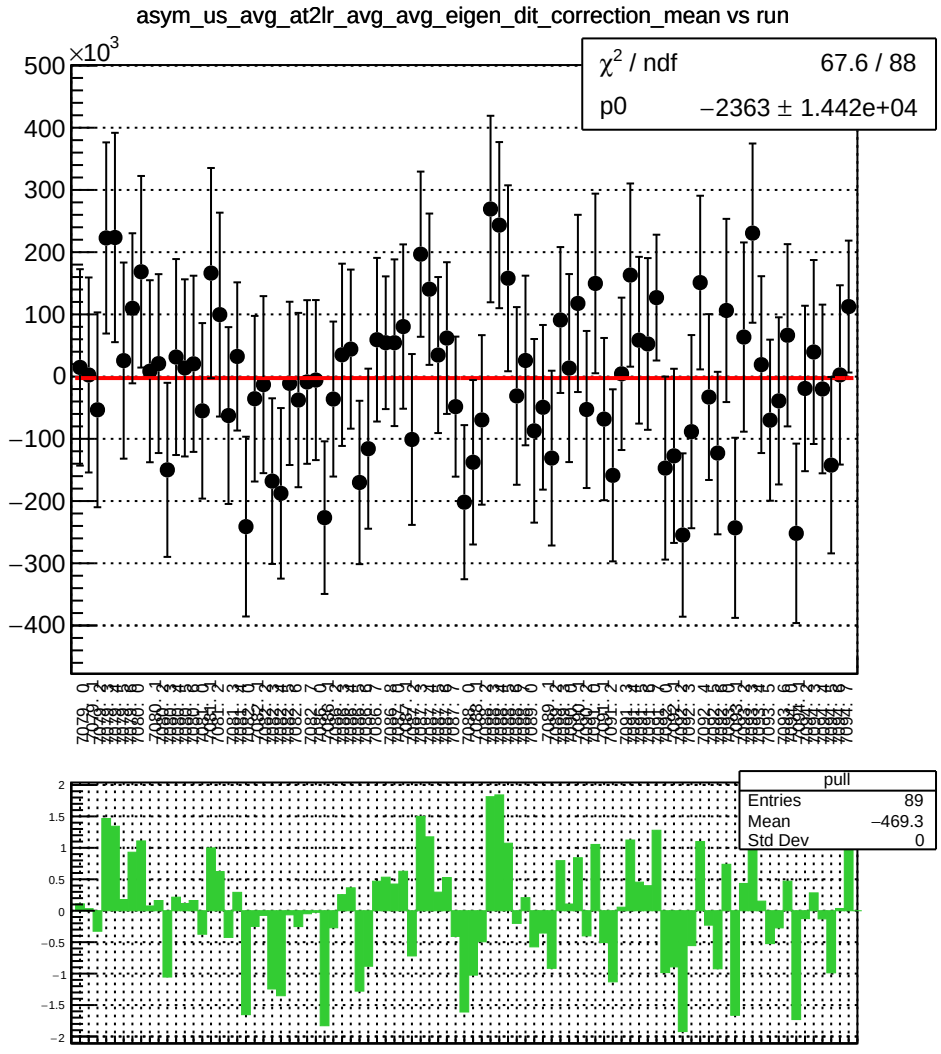

pull1D
Entries 89
Mean 0.002999
Std Dev 0.8715

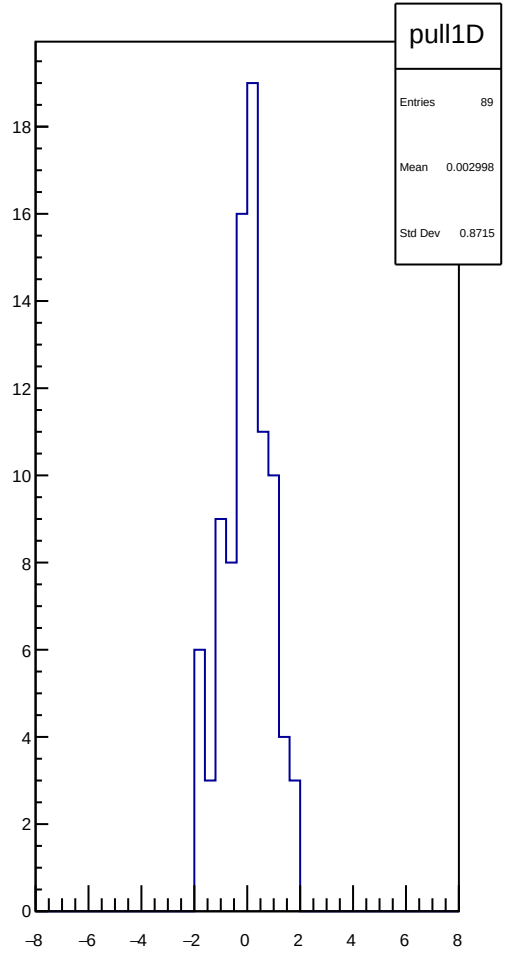

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 9743 / 88
p0 1.32e+04 ± 10.2
16000
15000
14000
13000
12000
11000

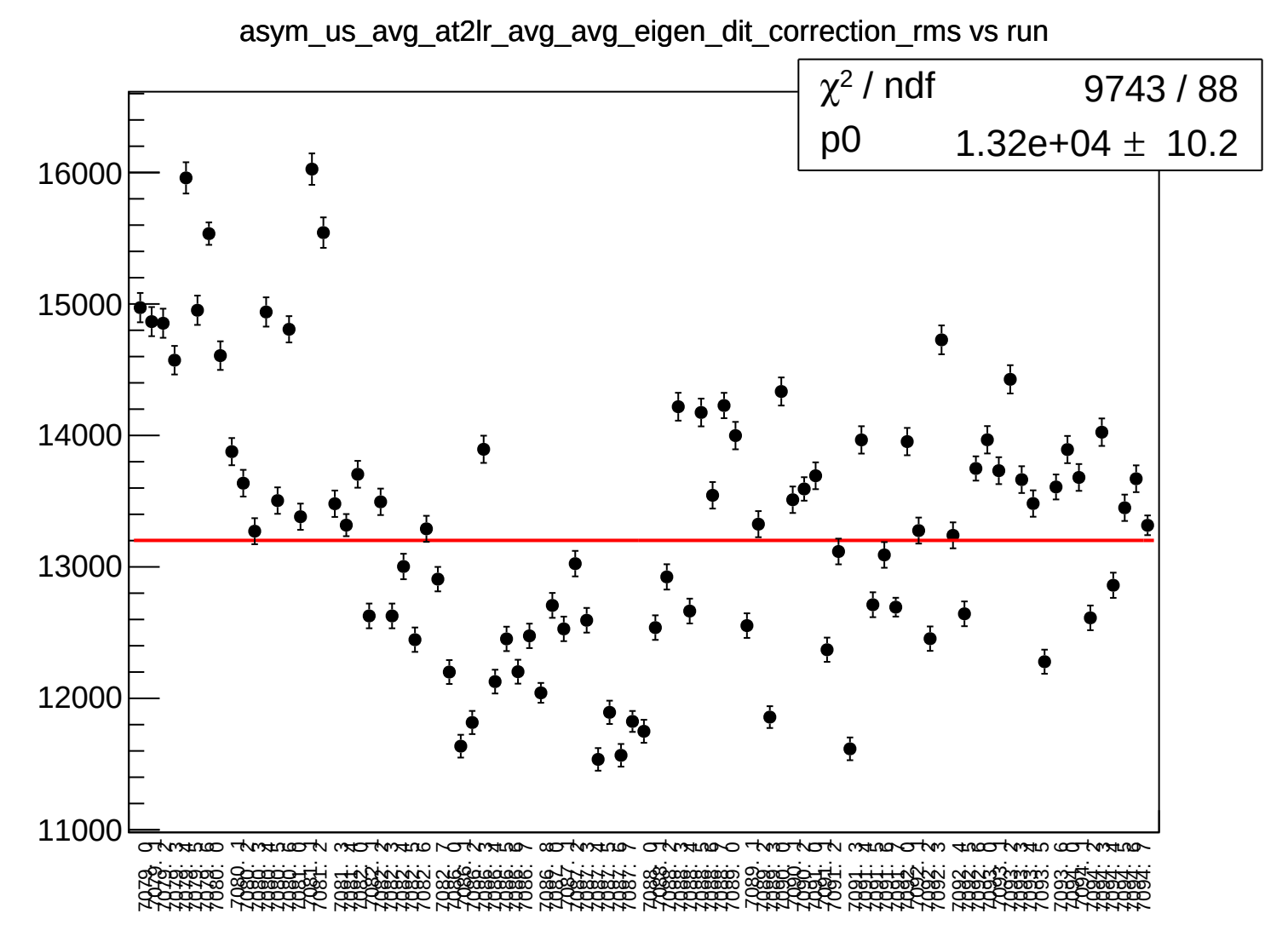

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 104.7 / 88
p0 975.9 ± 2587
pull
Entries 89
Mean 140
Std Dev 0

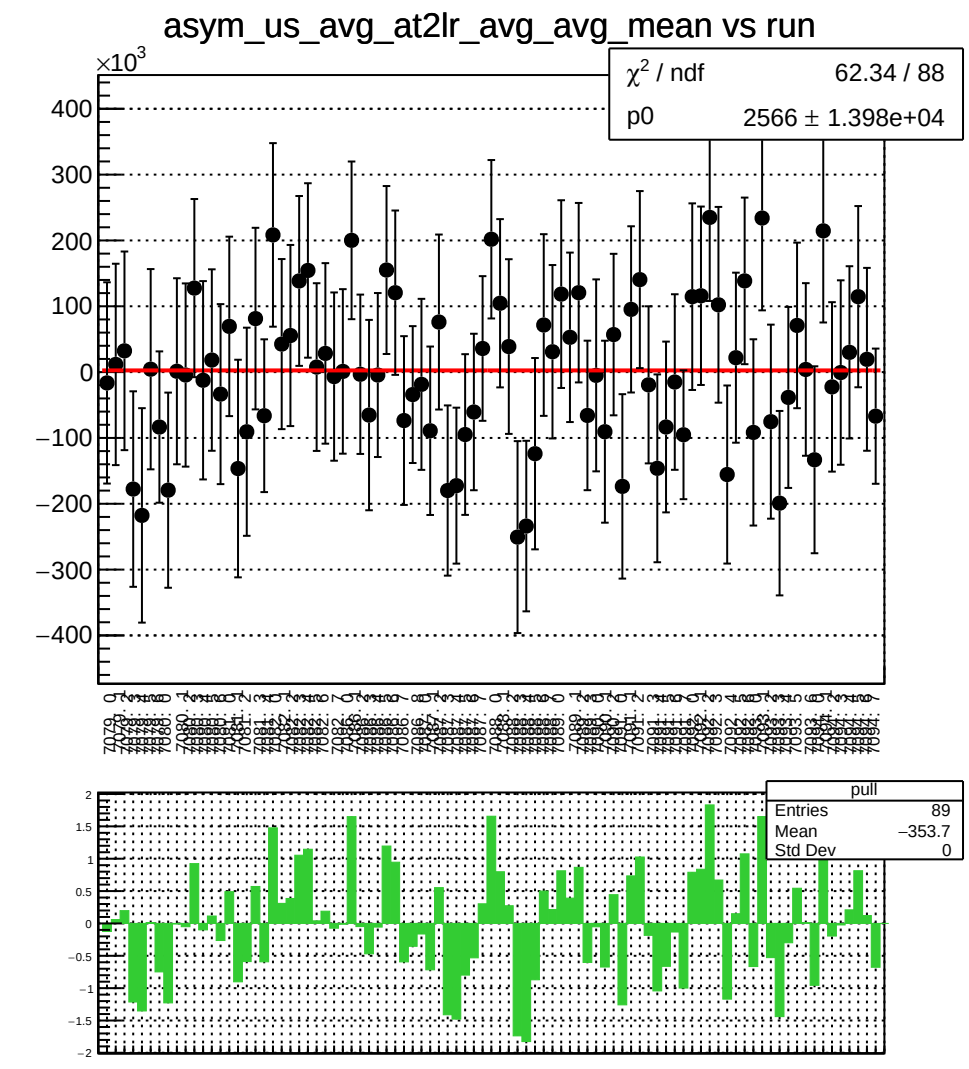

pull1D
Entries 89
Mean −0.01728
Std Dev 1.084

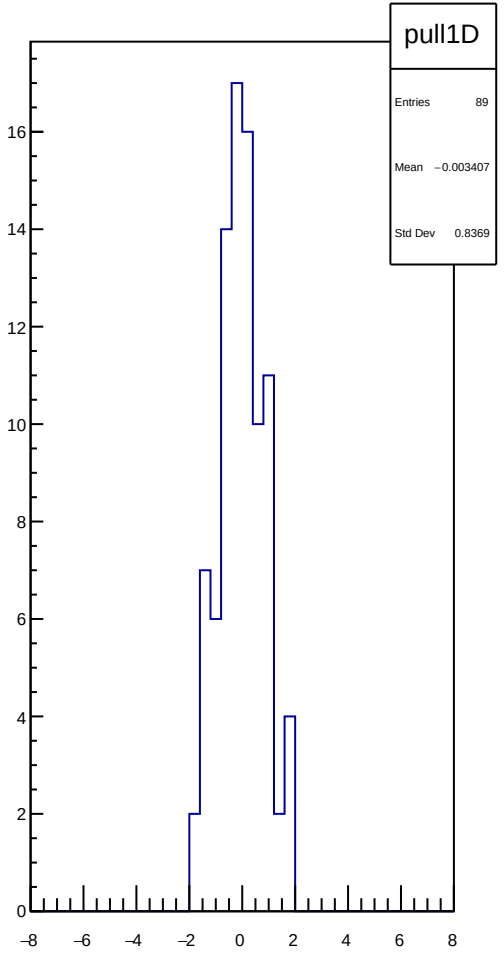

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 666.4 / 88
p0 2375 ± 1.829
2600
2550
2500
2450
2400
2350
2300
2250

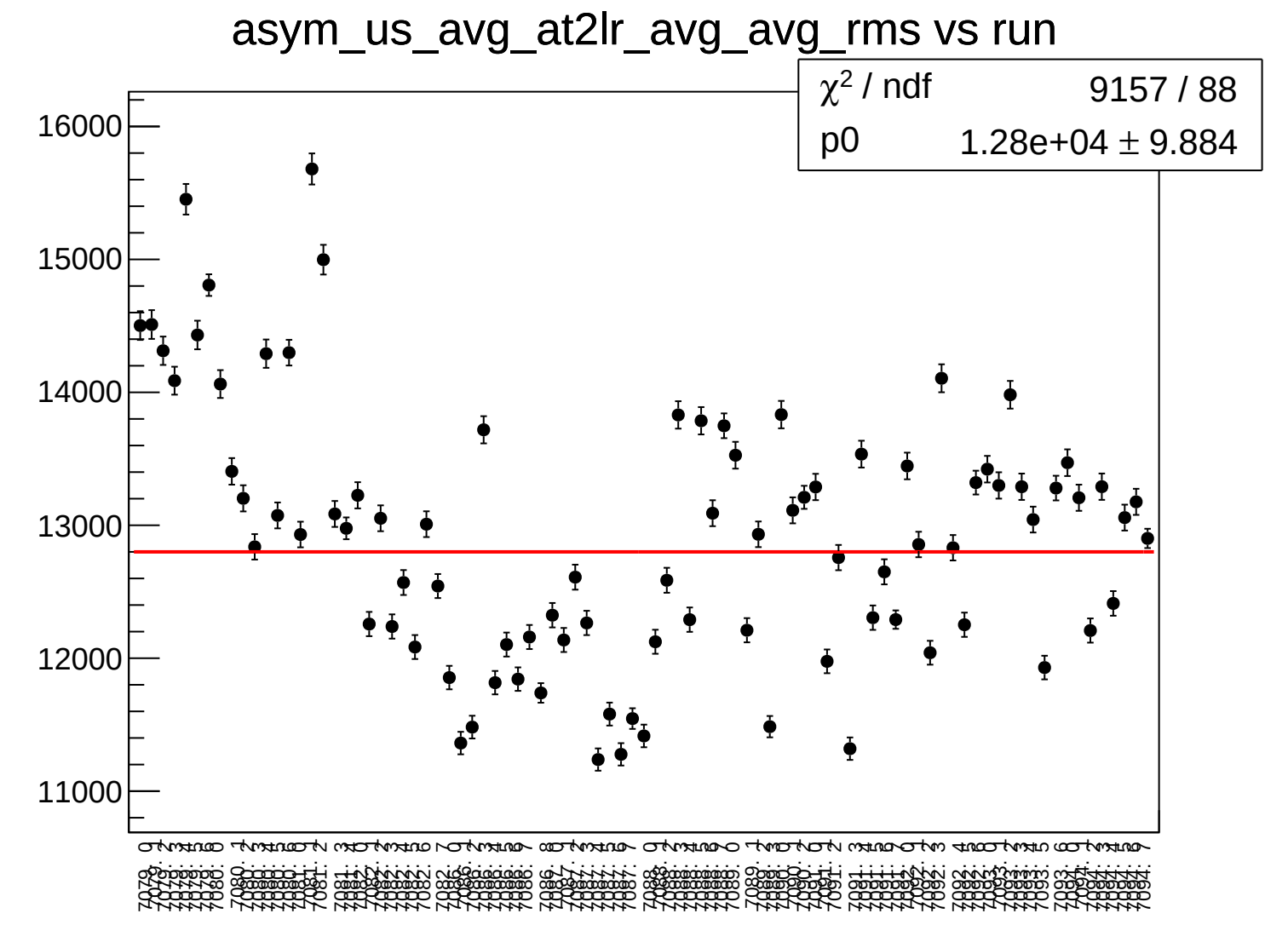

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.6 / 88
p0 −2363 ± 1.442e+04
pull
Entries 89
Mean −469.3
Std Dev 0

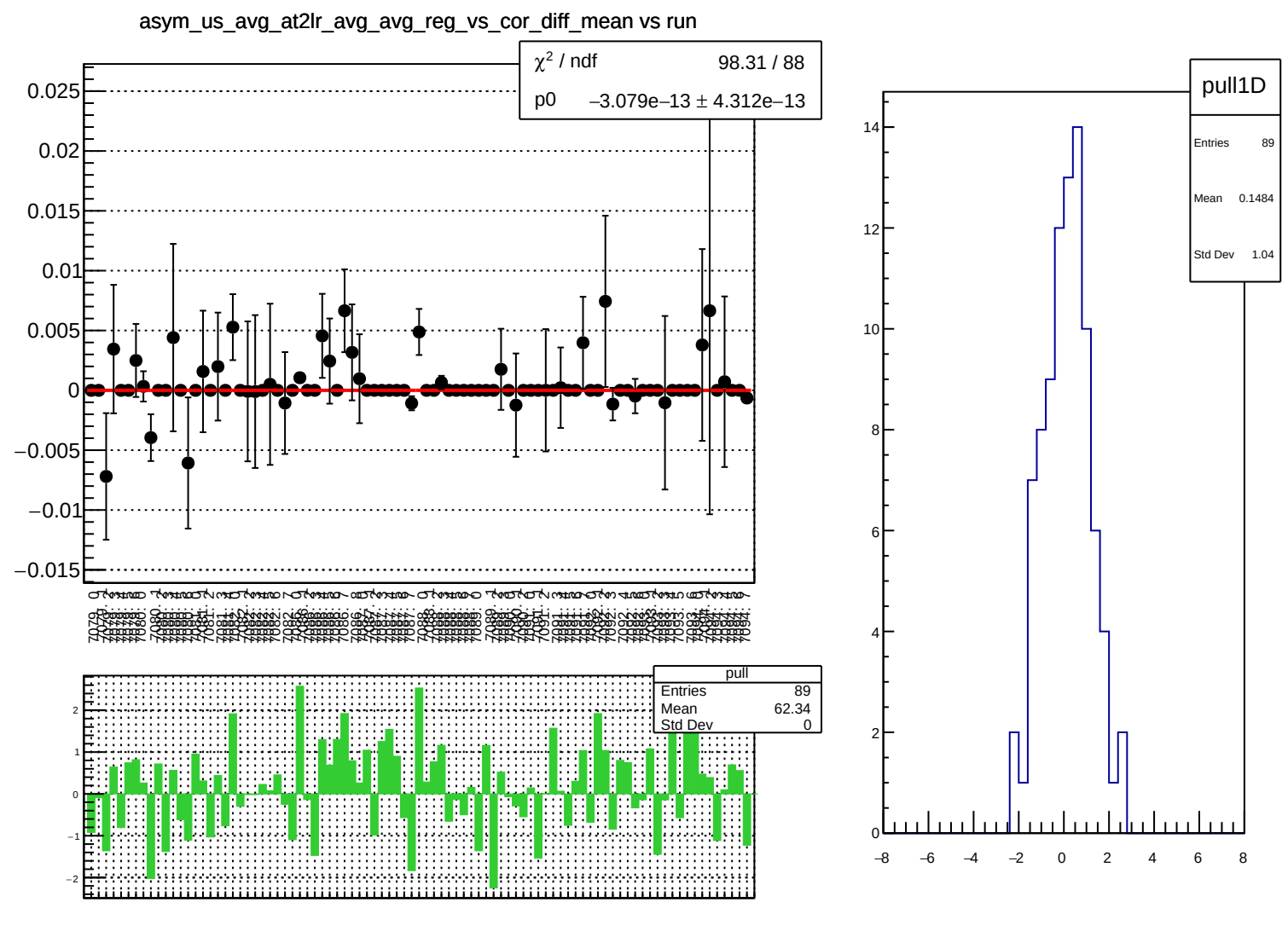

pull1D
Entries 89
Mean 0.002998
Std Dev 0.8715

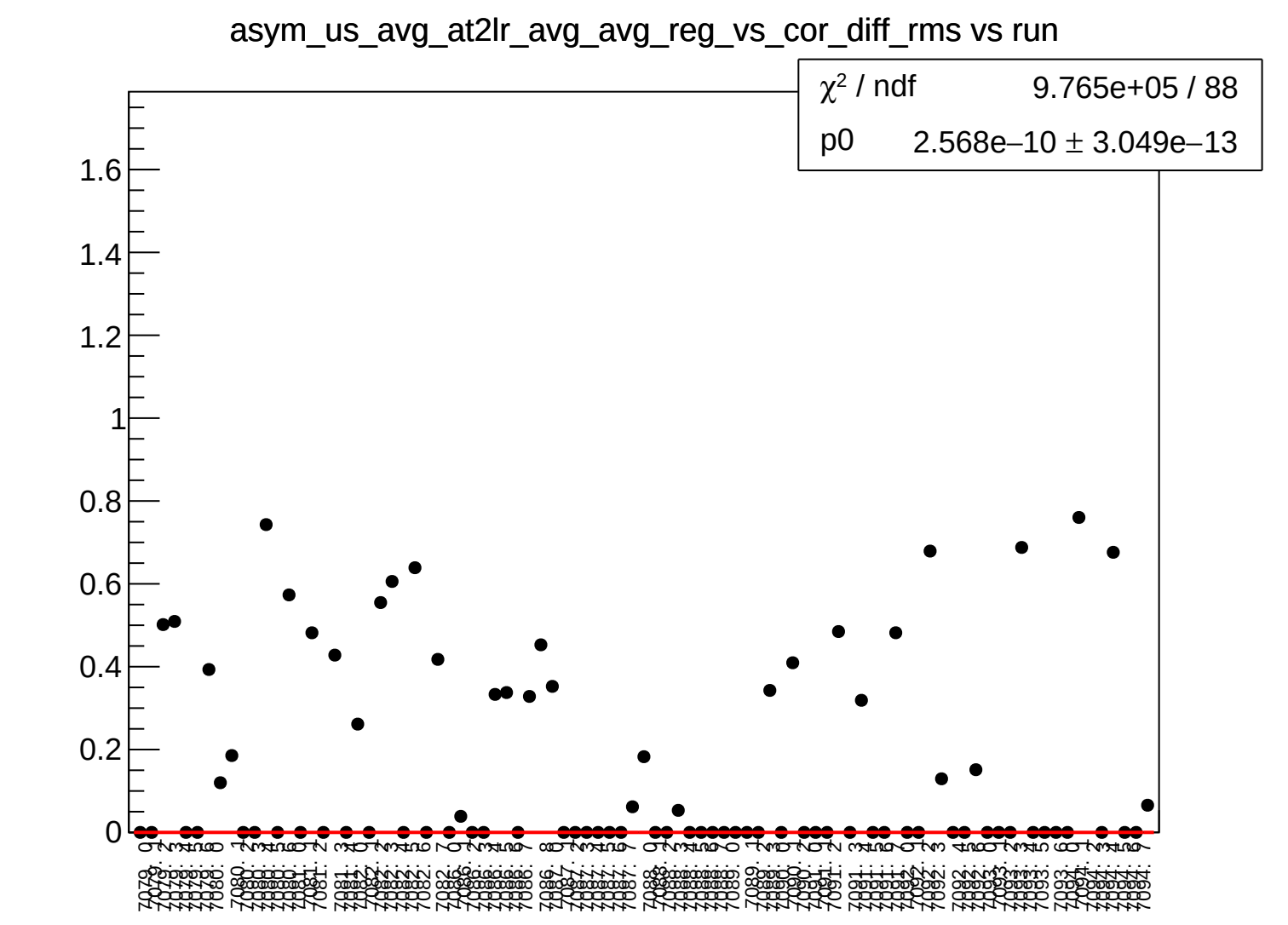

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 9743 / 88
p0 1.32e+04 ± 10.2
16000
15000
14000
13000
12000
11000

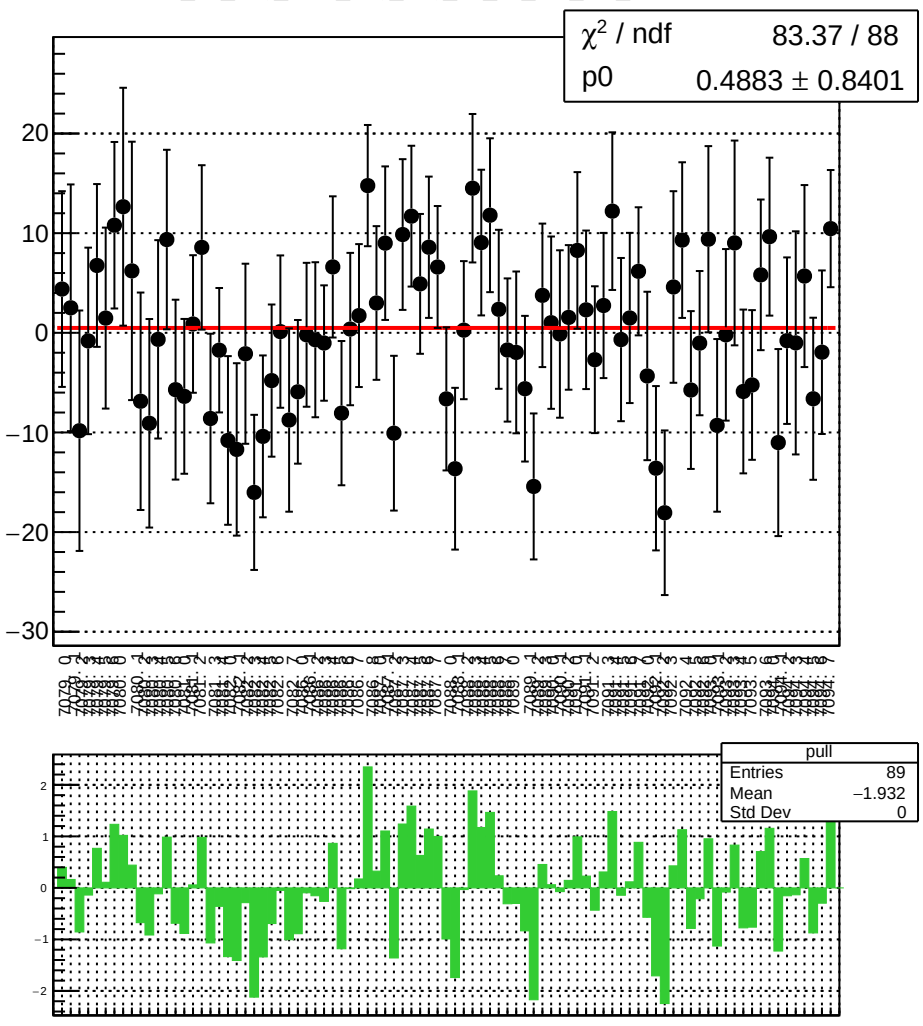

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 62.34 / 88
p0 2566 ± 1.398e+04
pull
Entries 89
Mean −353.7
Std Dev 0

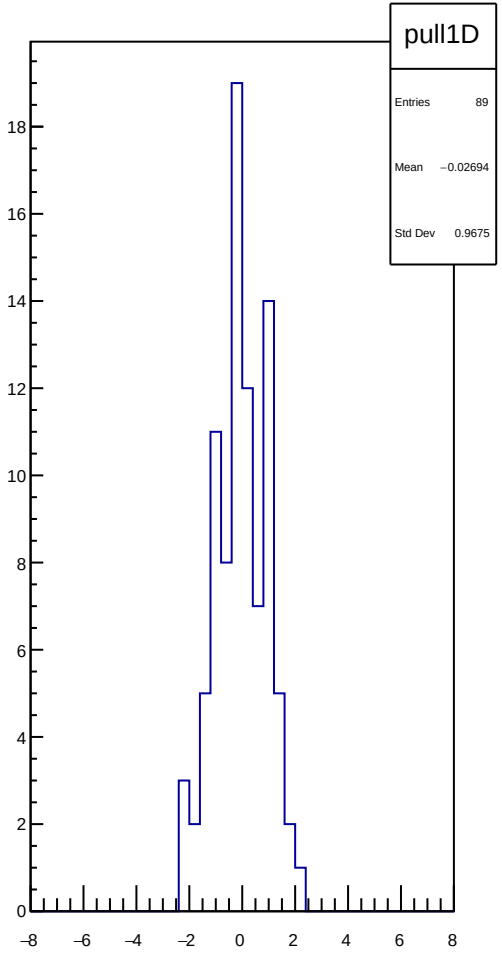

pull1D
Entries 89
Mean −0.003407
Std Dev 0.8369

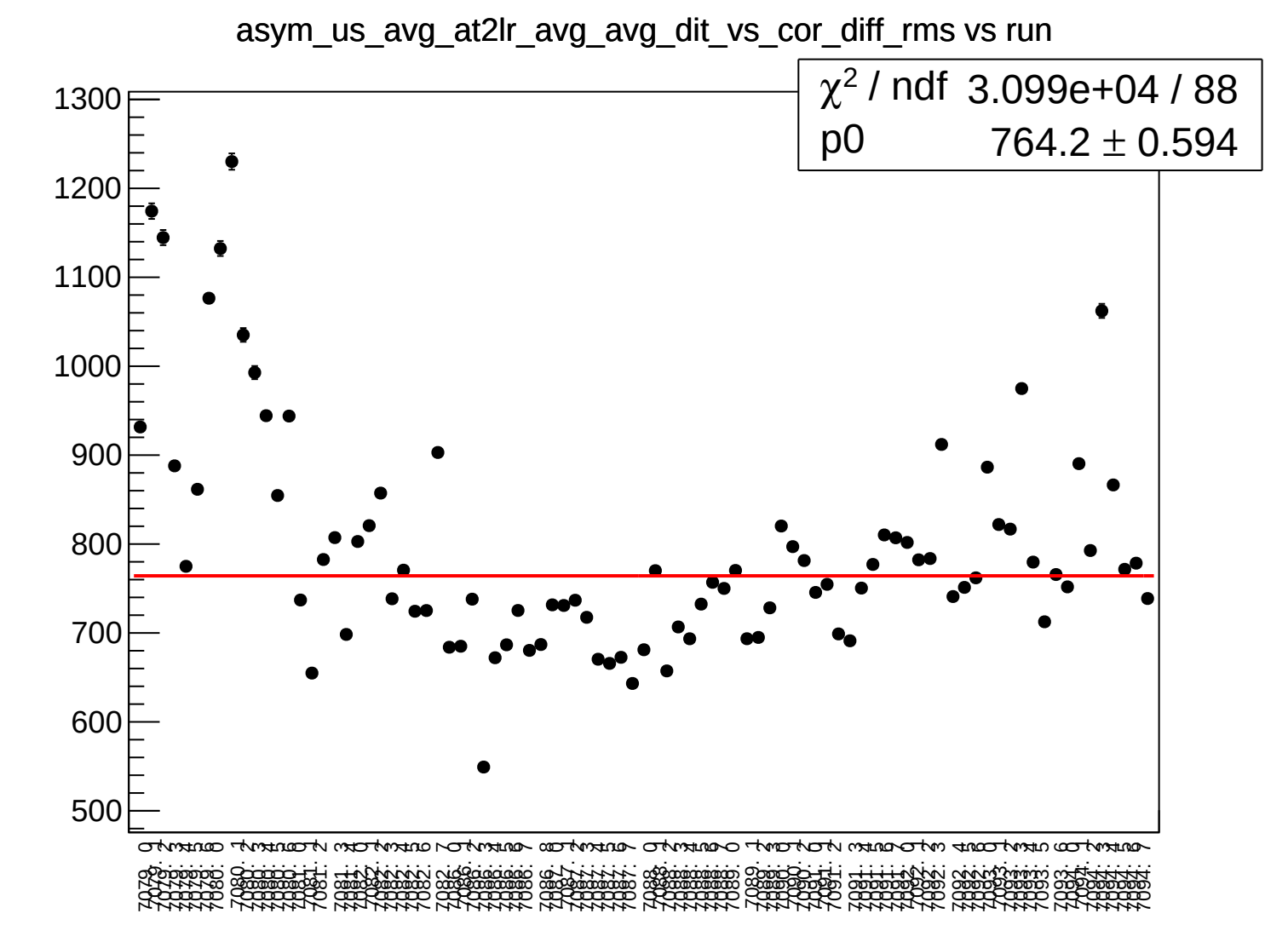

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 9157 / 88
p0 1.28e+04 ± 9.884
16000
15000
14000
13000
12000
11000

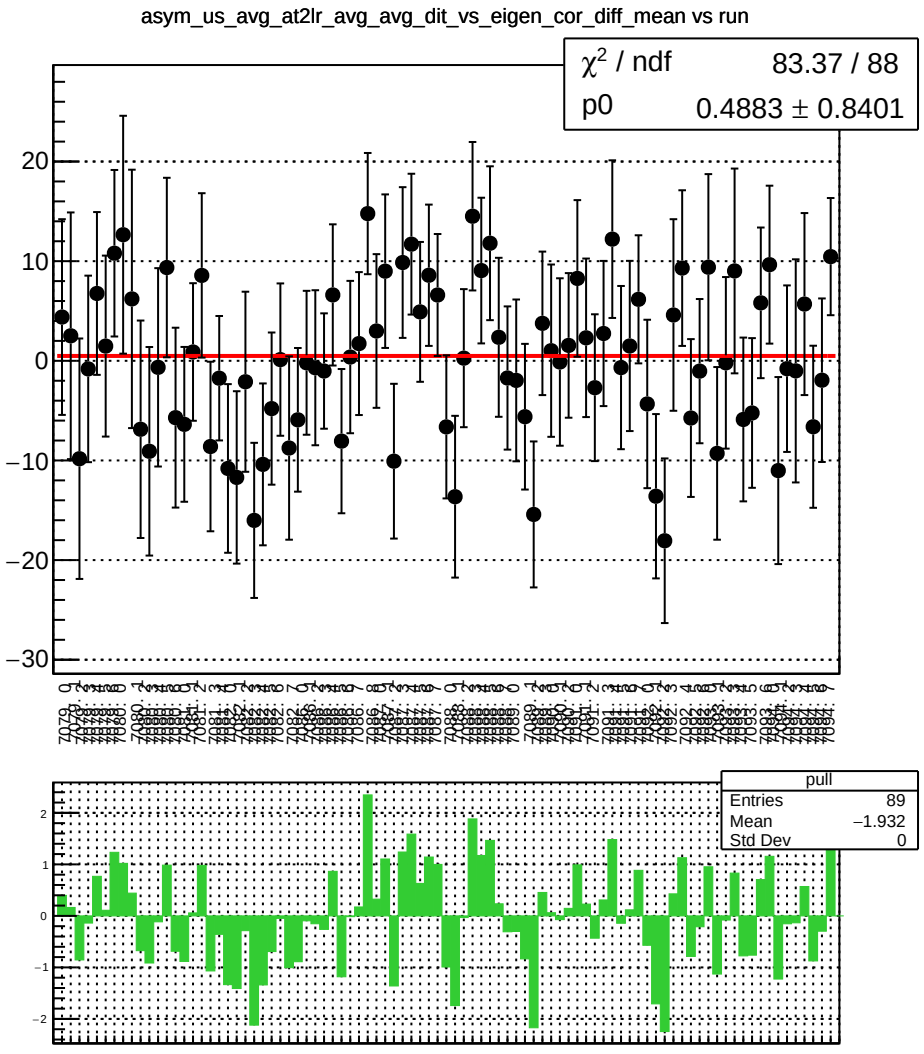

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.31 / 88
p0 −3.079e−13 ± 4.312e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 62.34
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.1484
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

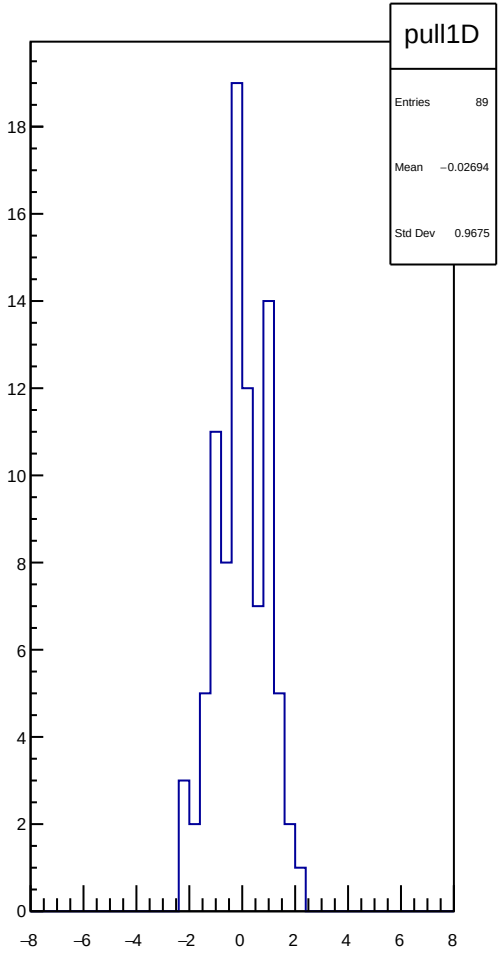

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.765e+05 / 88
p0 2.568e−10 ± 3.049e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

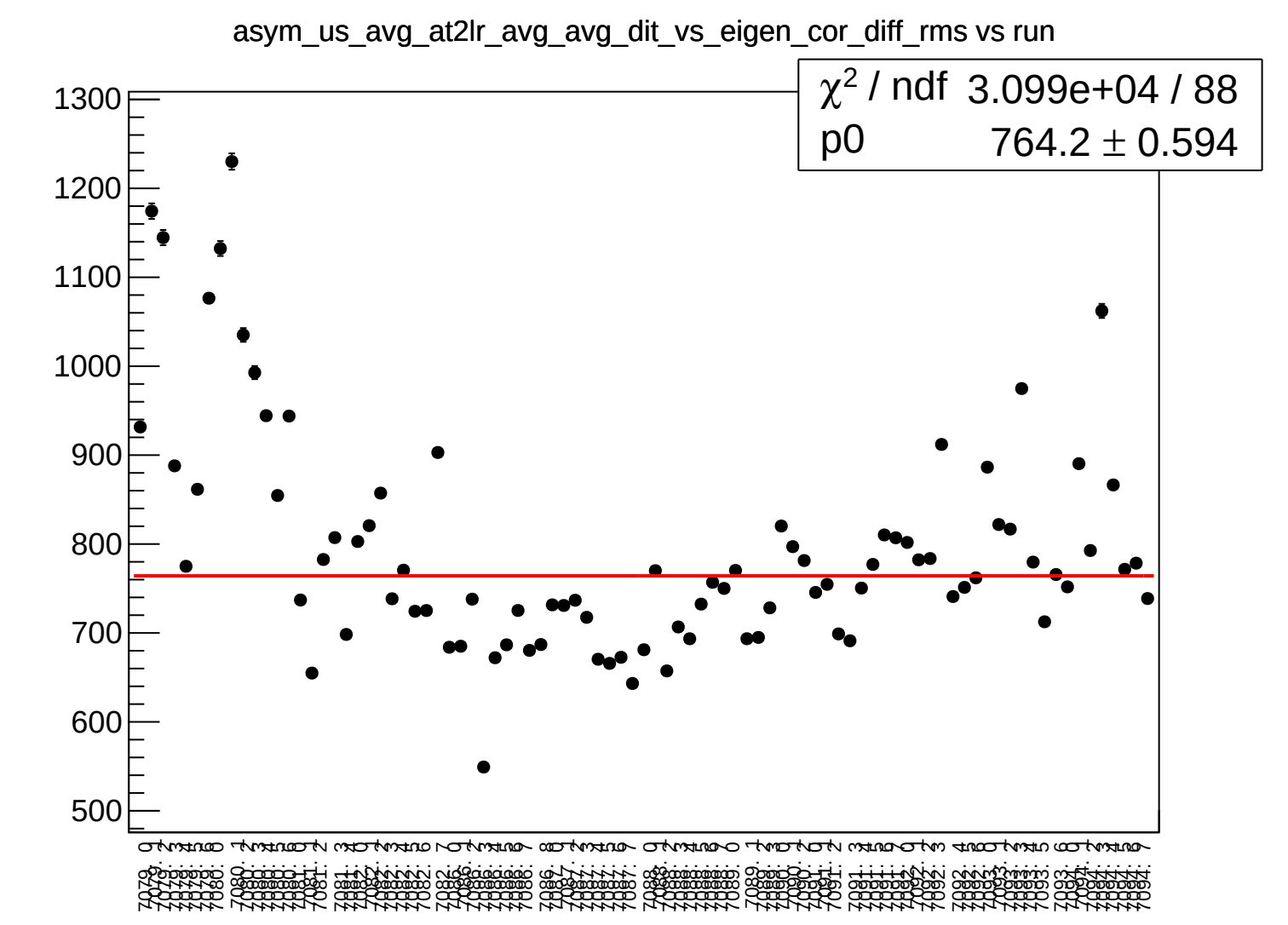

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.37 / 88
p0 0.4883 ± 0.8401
pull
Entries 89
Mean −1.932
Std Dev 0

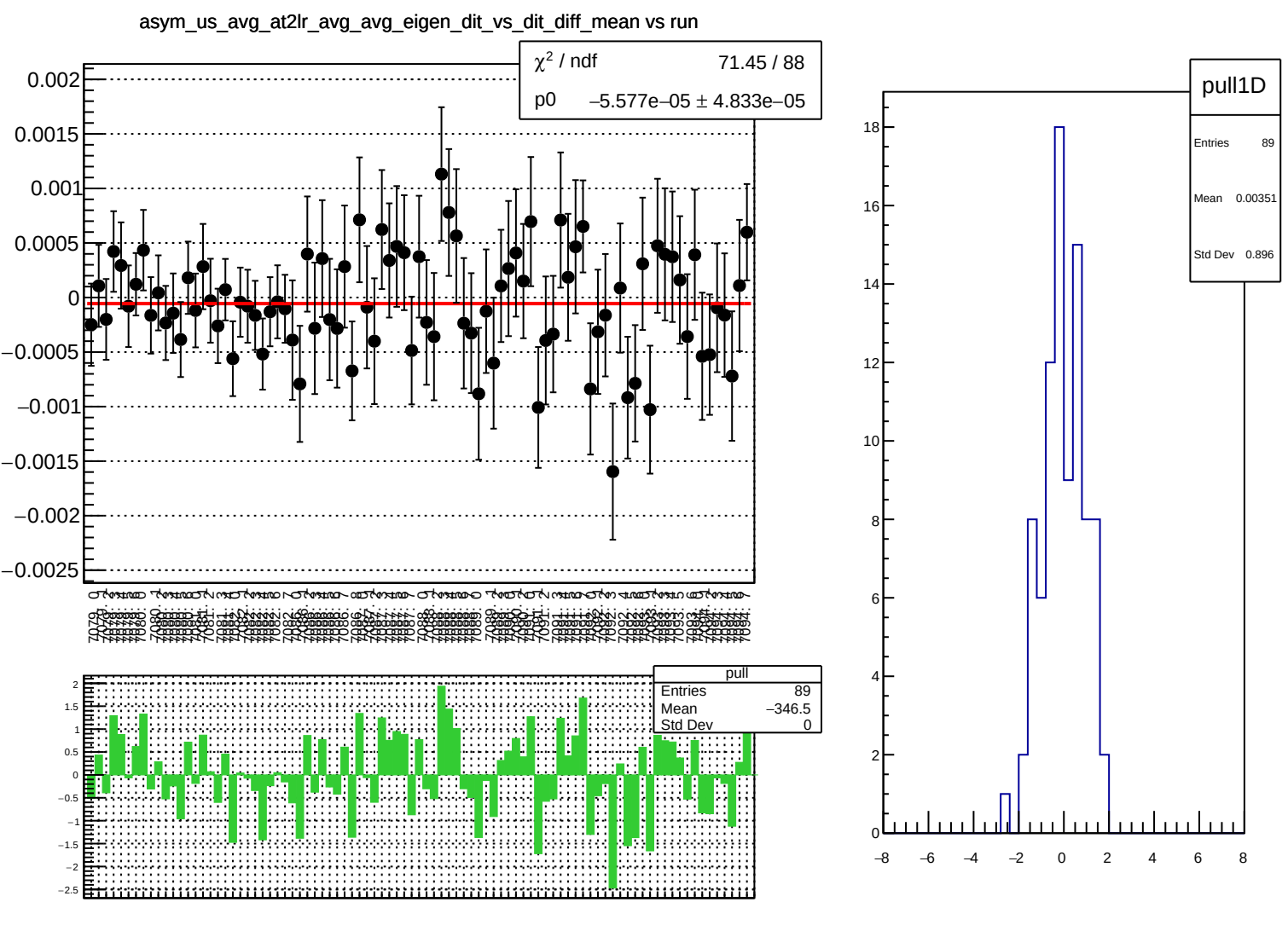

pull1D
Entries 89
Mean −0.02694
Std Dev 0.9675

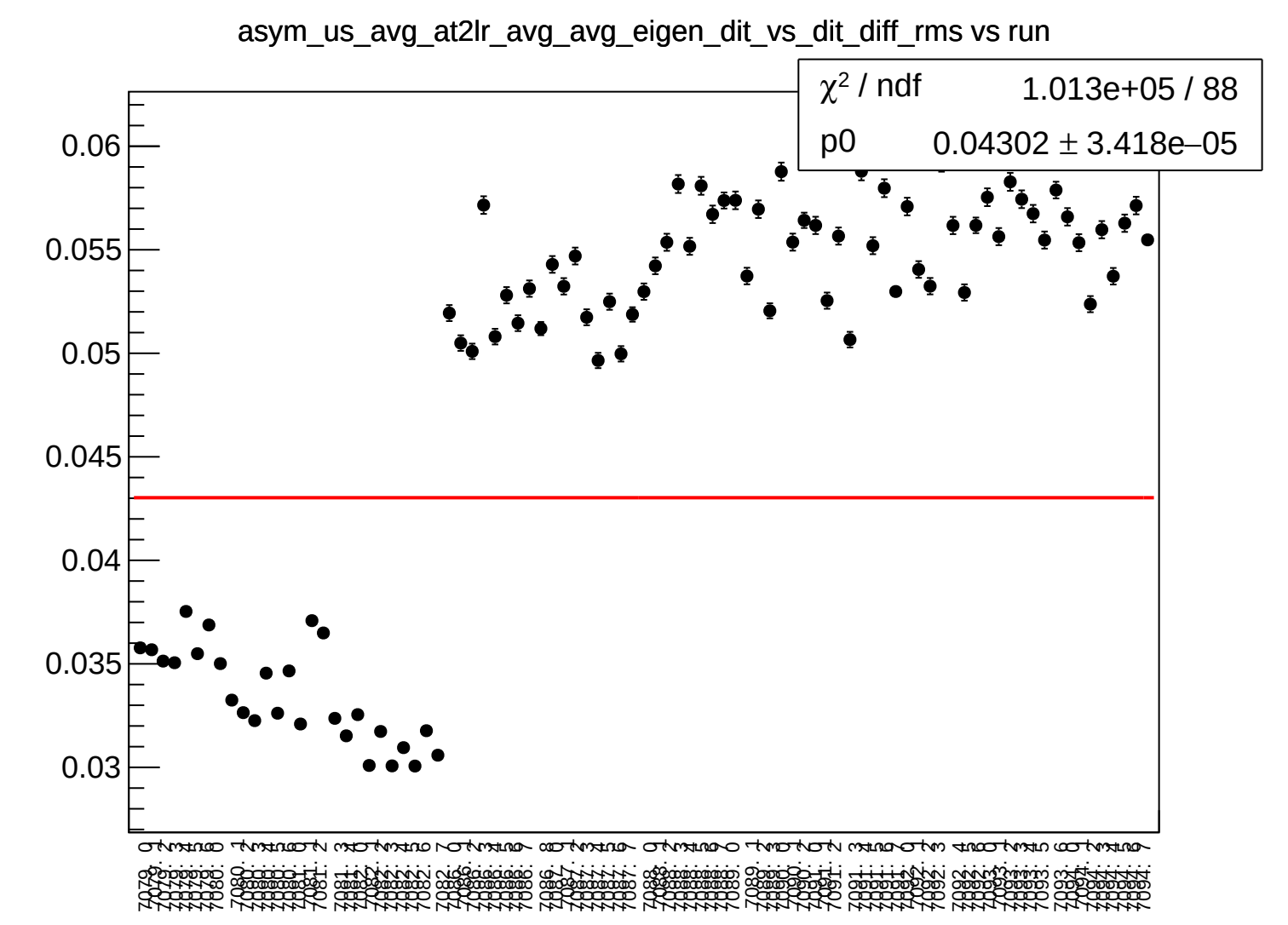

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.099e+04 / 88
p0 764.2 ± 0.594
1300
1200
1100
1000
900
800
700
600
500

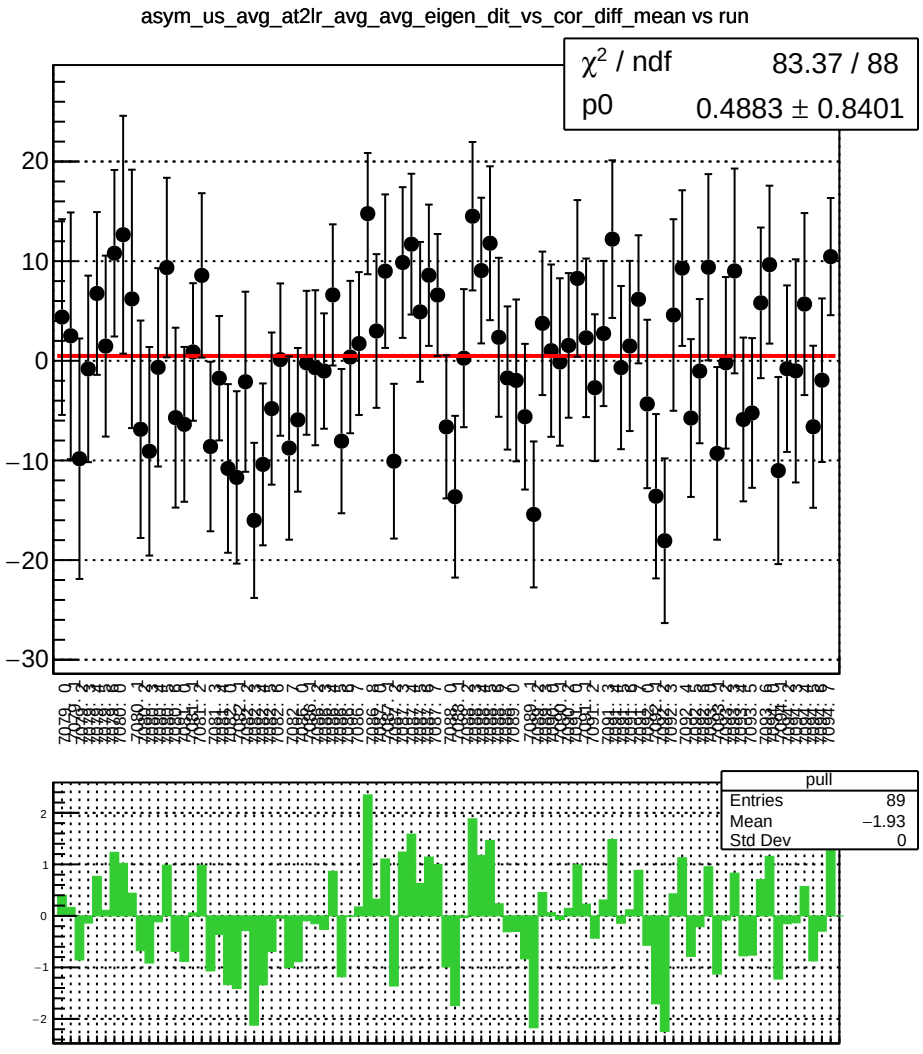

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.37 / 88
p0 0.4883 ± 0.8401
pull
Entries 89
Mean −1.932
Std Dev 0

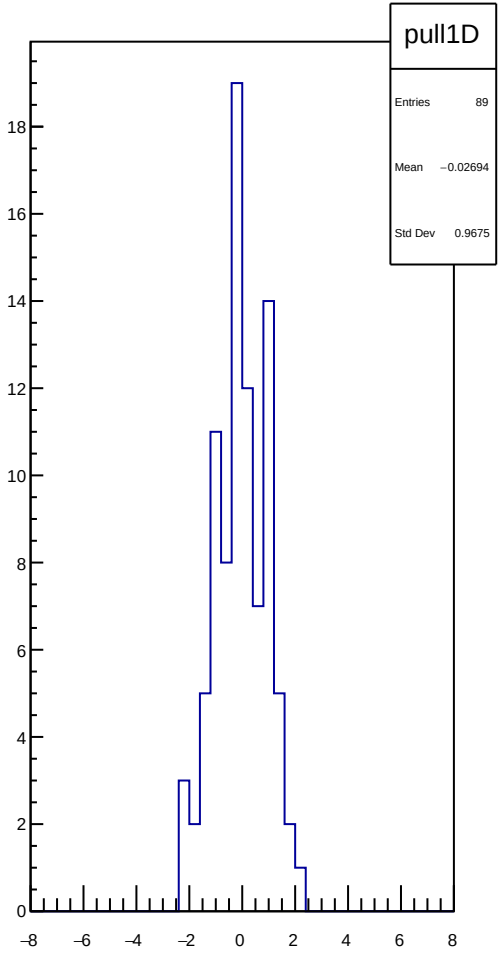

pull1D
Entries 89
Mean −0.02694
Std Dev 0.9675

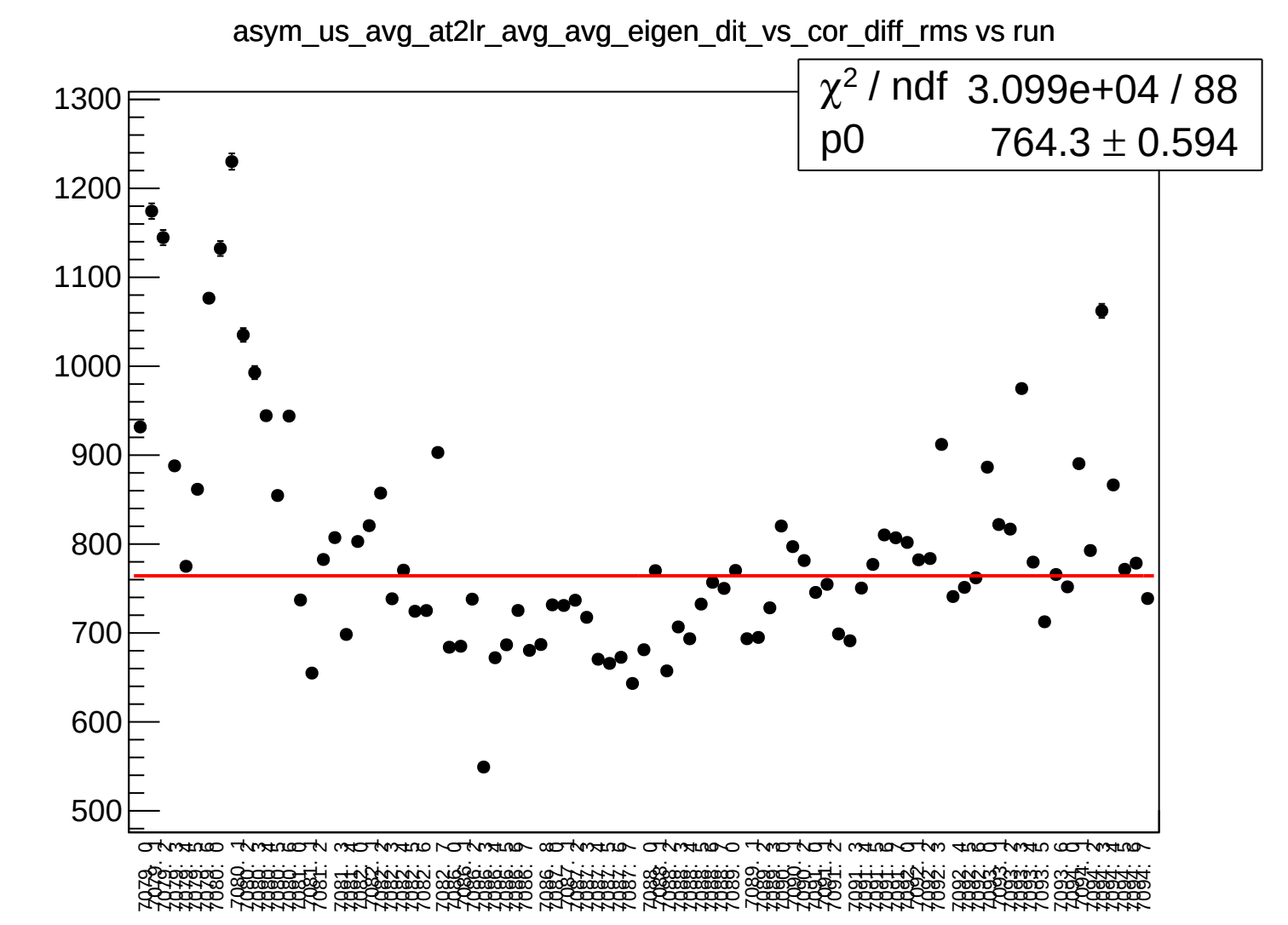

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.099e+04 / 88
p0 764.2 ± 0.594
1300
1200
1100
1000
900
800
700
600
500

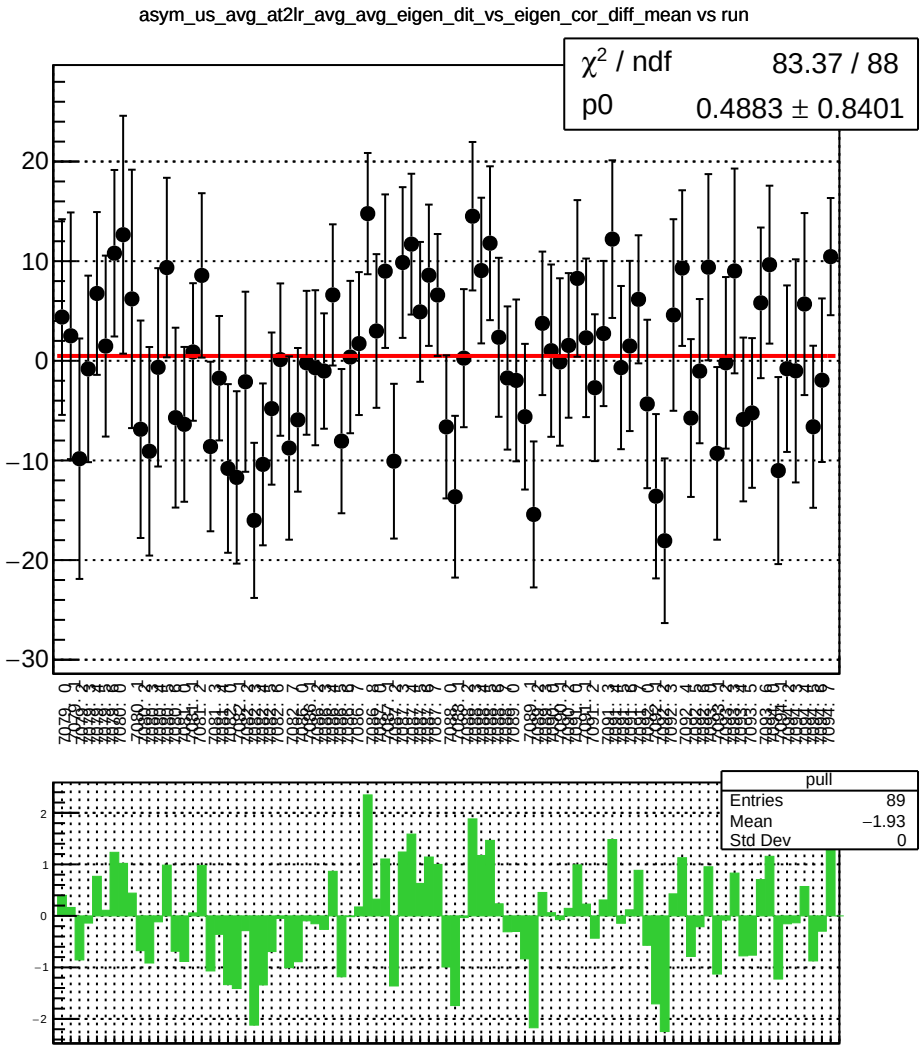

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.45 / 88
p0 −5.577e−05 ± 4.833e−05
pull
Entries 89
Mean −346.5
Std Dev 0
pull1D
Entries 89
Mean 0.00351
Std Dev 0.896

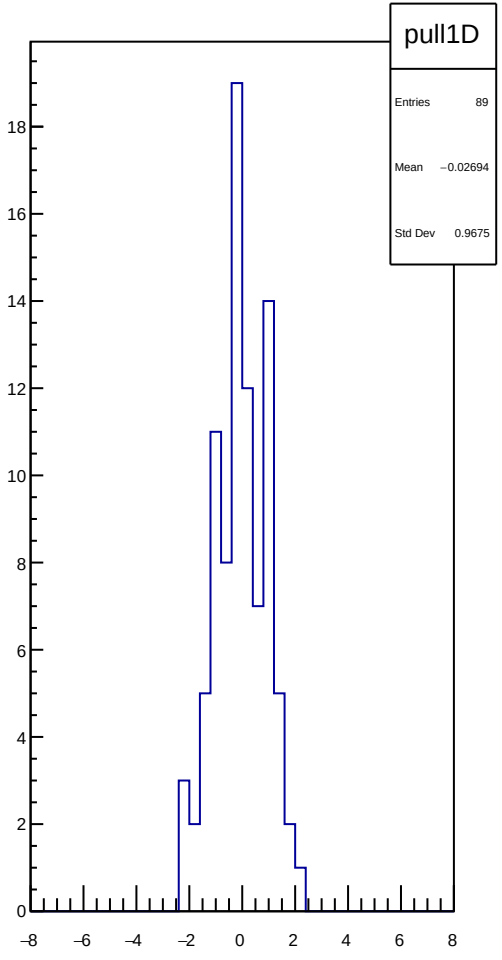

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.013e+05 / 88
p0 0.04302 ± 3.418e−05
0.06
0.055
0.05
0.045
0.04
0.035
0.03

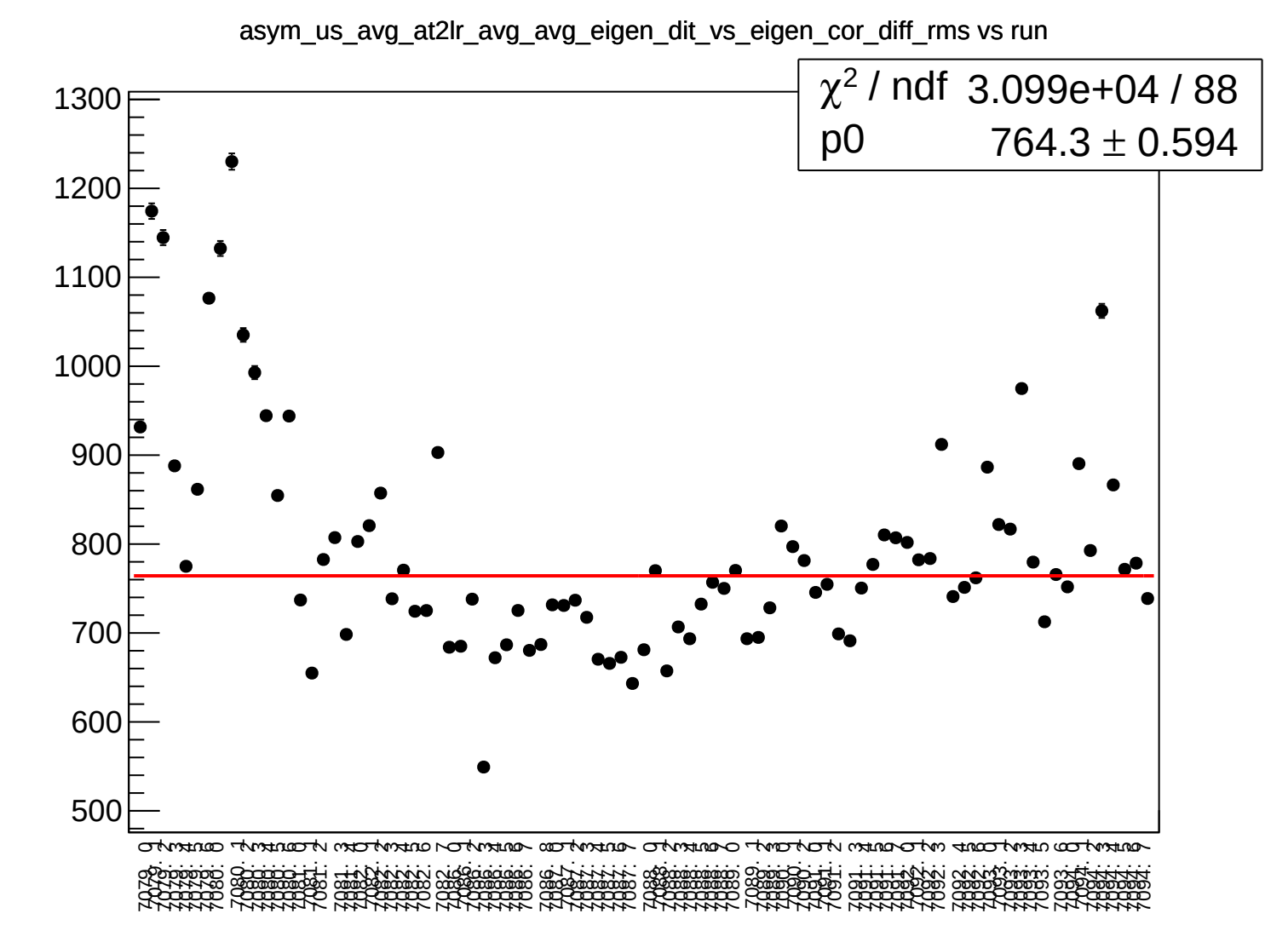

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.37 / 88
p0 0.4883 ± 0.8401
pull
Entries 89
Mean −1.93
Std Dev 0

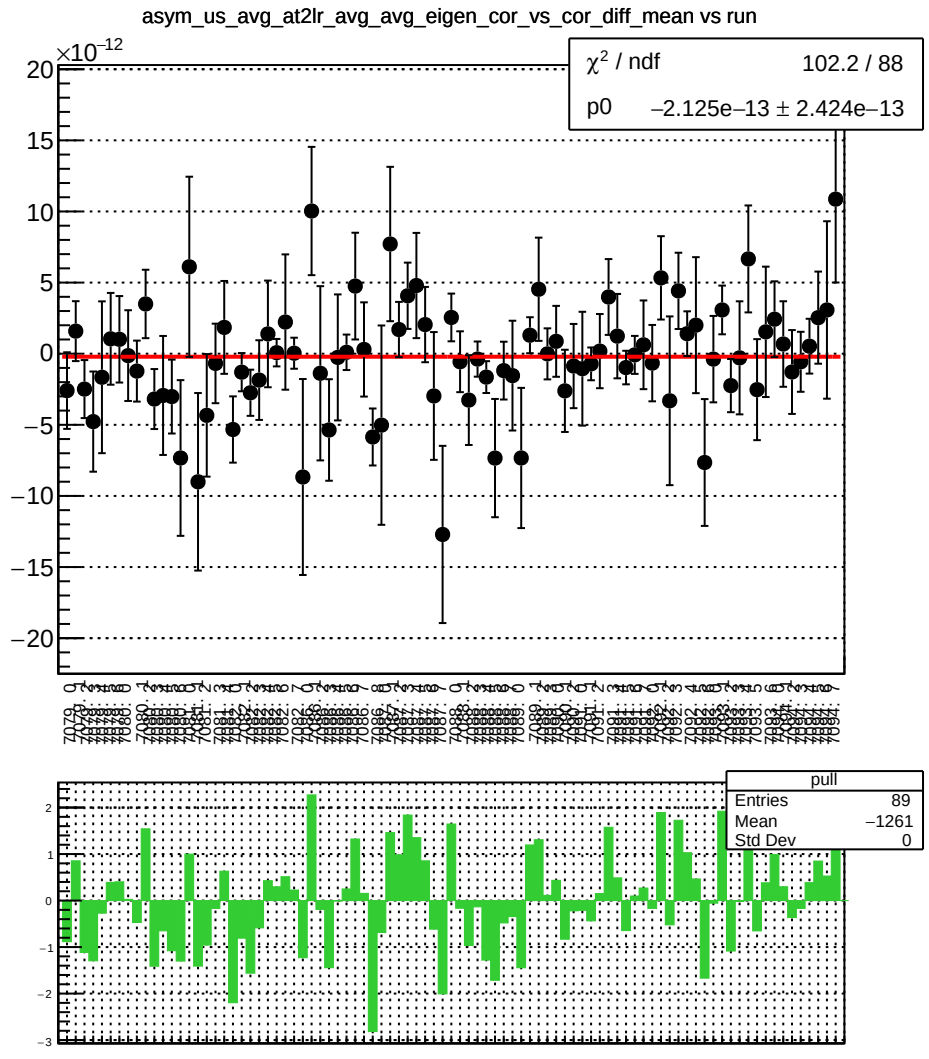

pull1D
Entries 89
Mean −0.02694
Std Dev 0.9675

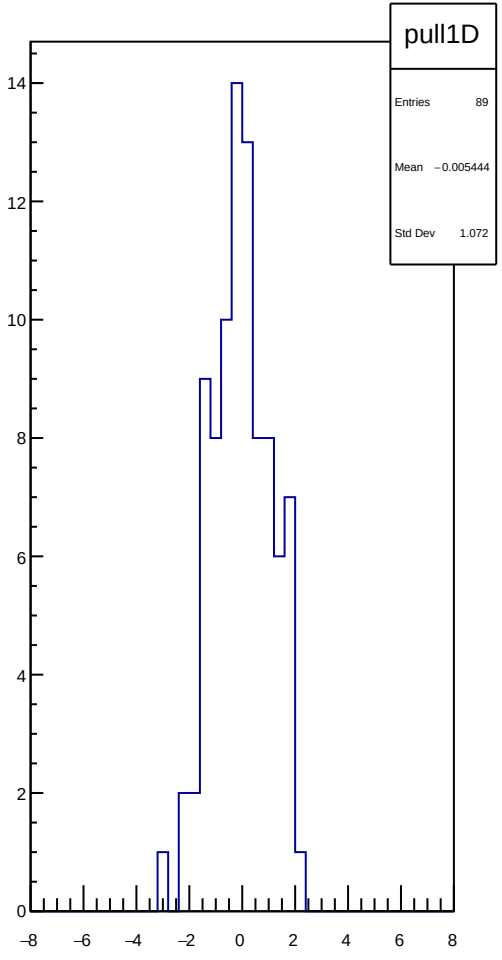

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.099e+04 / 88
p0 764.3 ± 0.594
1300
1200
1100
1000
900
800
700
600
500

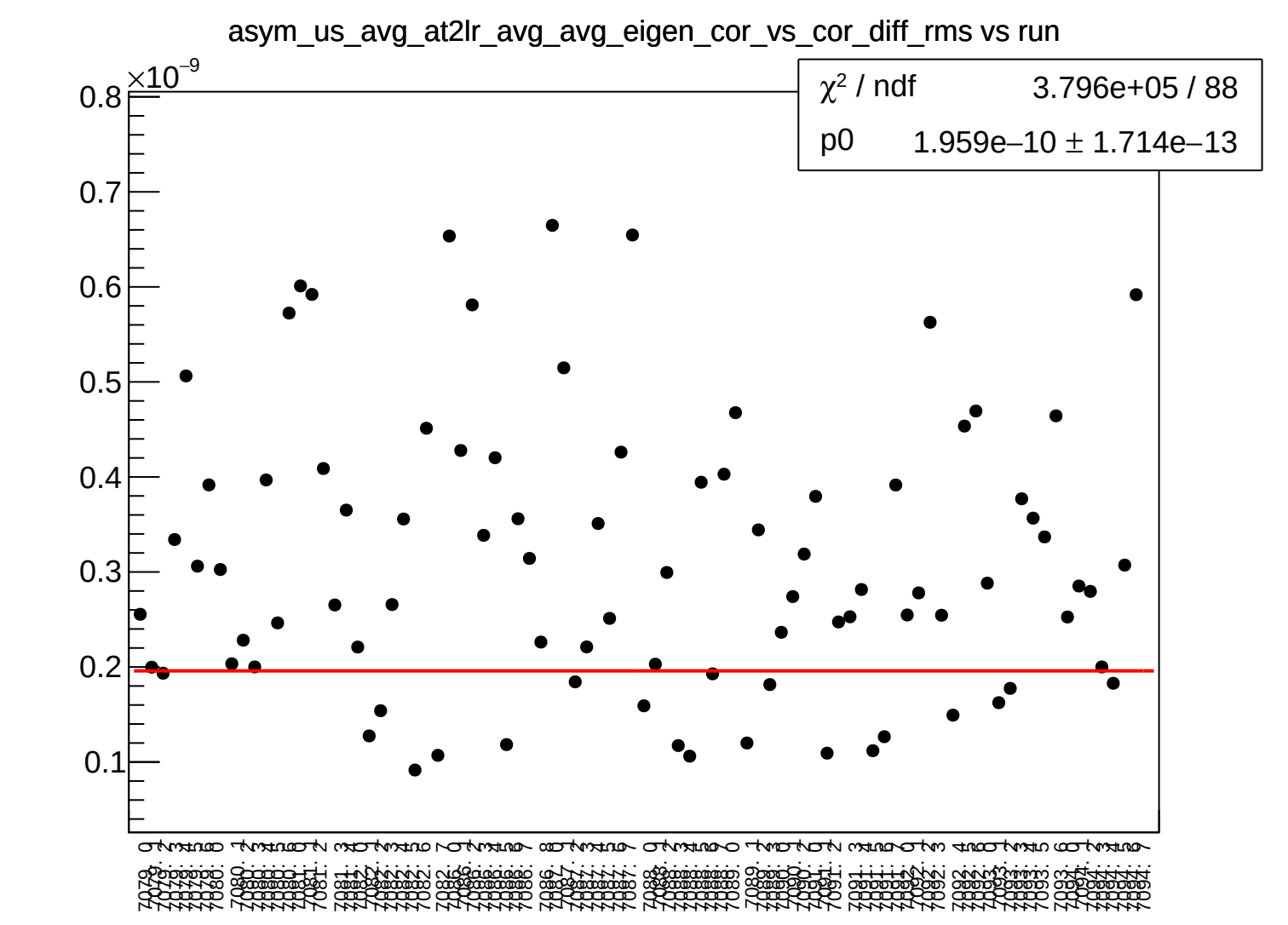

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.37 / 88
p0 0.4883 ± 0.8401
pull
Entries 89
Mean −1.93
Std Dev 0

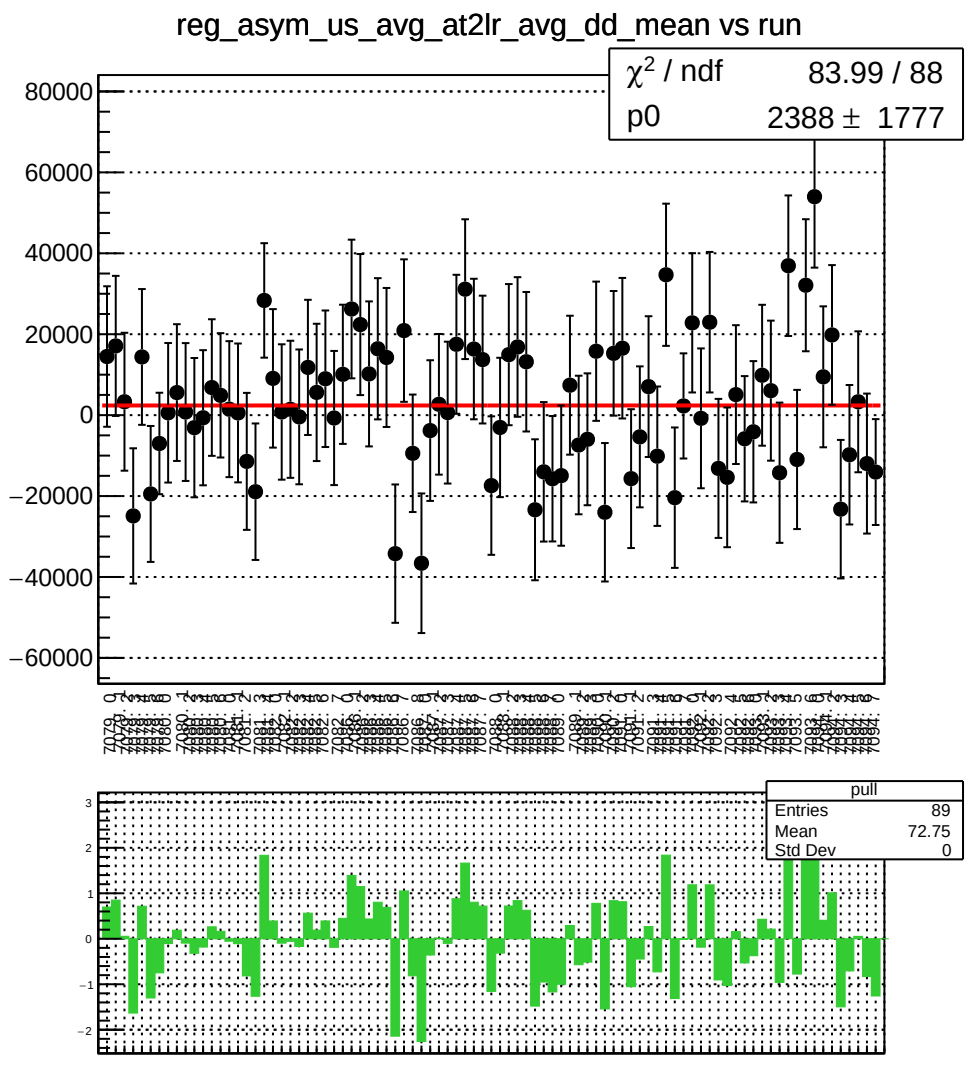

pull1D
Entries 89
Mean −0.02694
Std Dev 0.9675

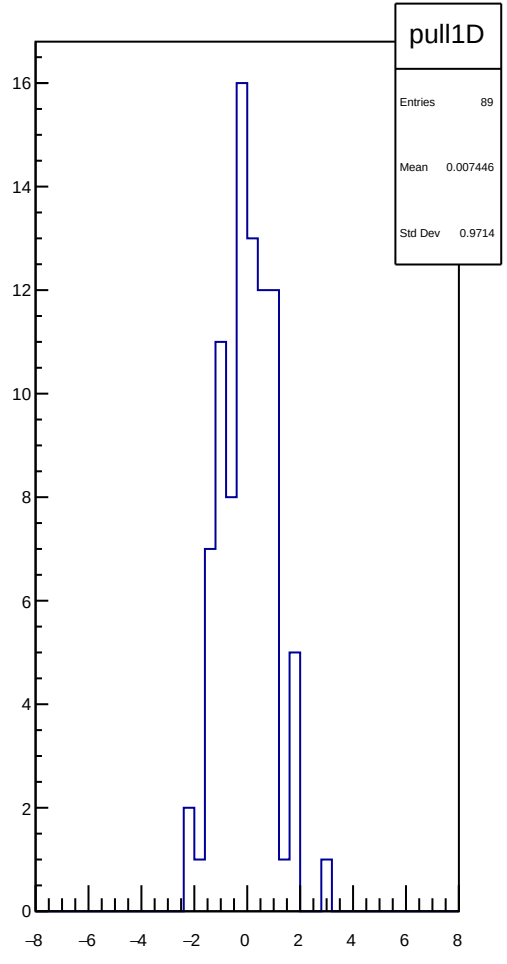

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.099e+04 / 88
p0 764.3 ± 0.594
1300
1200
1100
1000
900
800
700
600
500

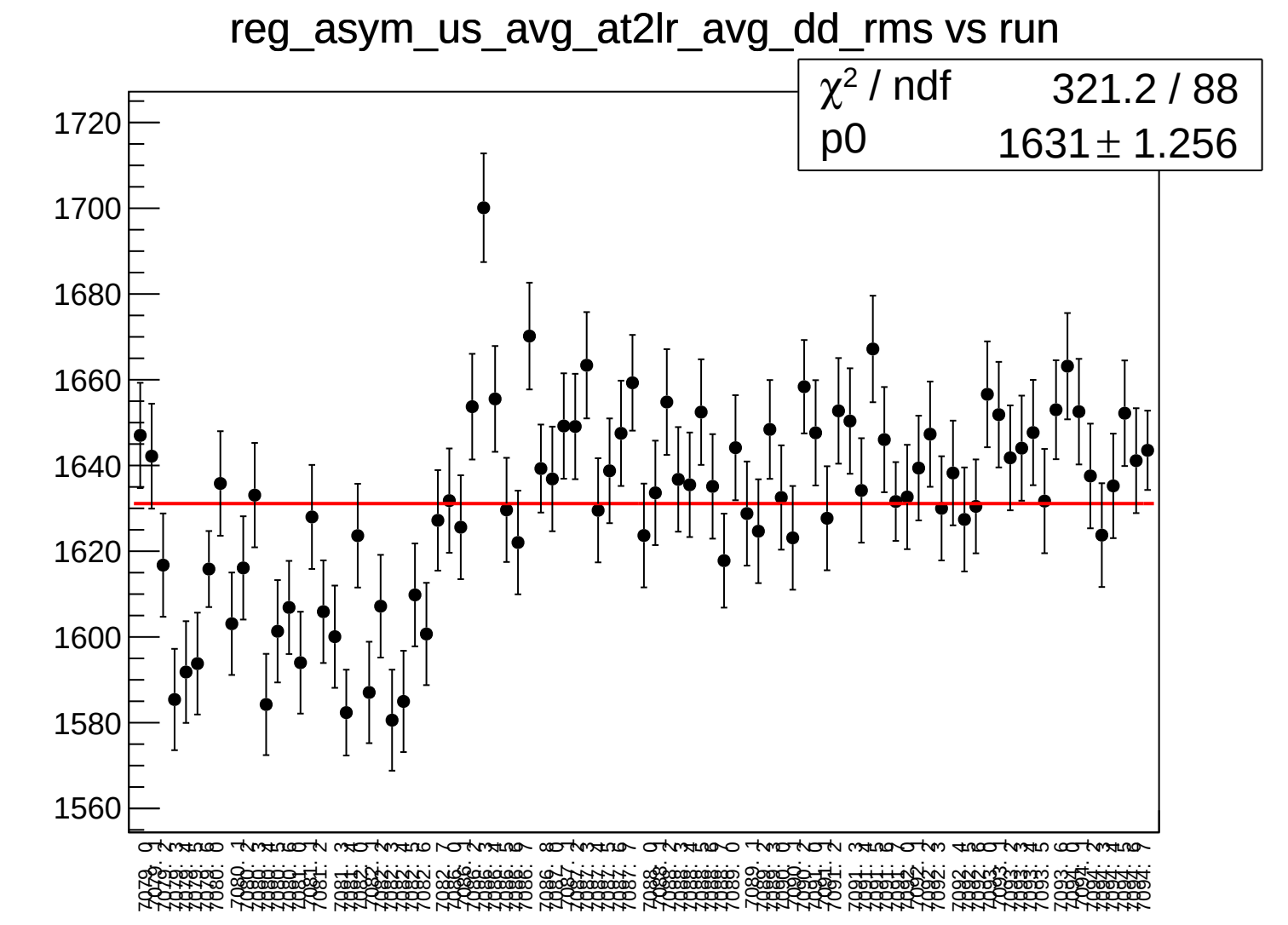

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.2 / 88
p0 −2.125e−13 ± 2.424e−13
pull
Entries 89
Mean −1261
Std Dev 0

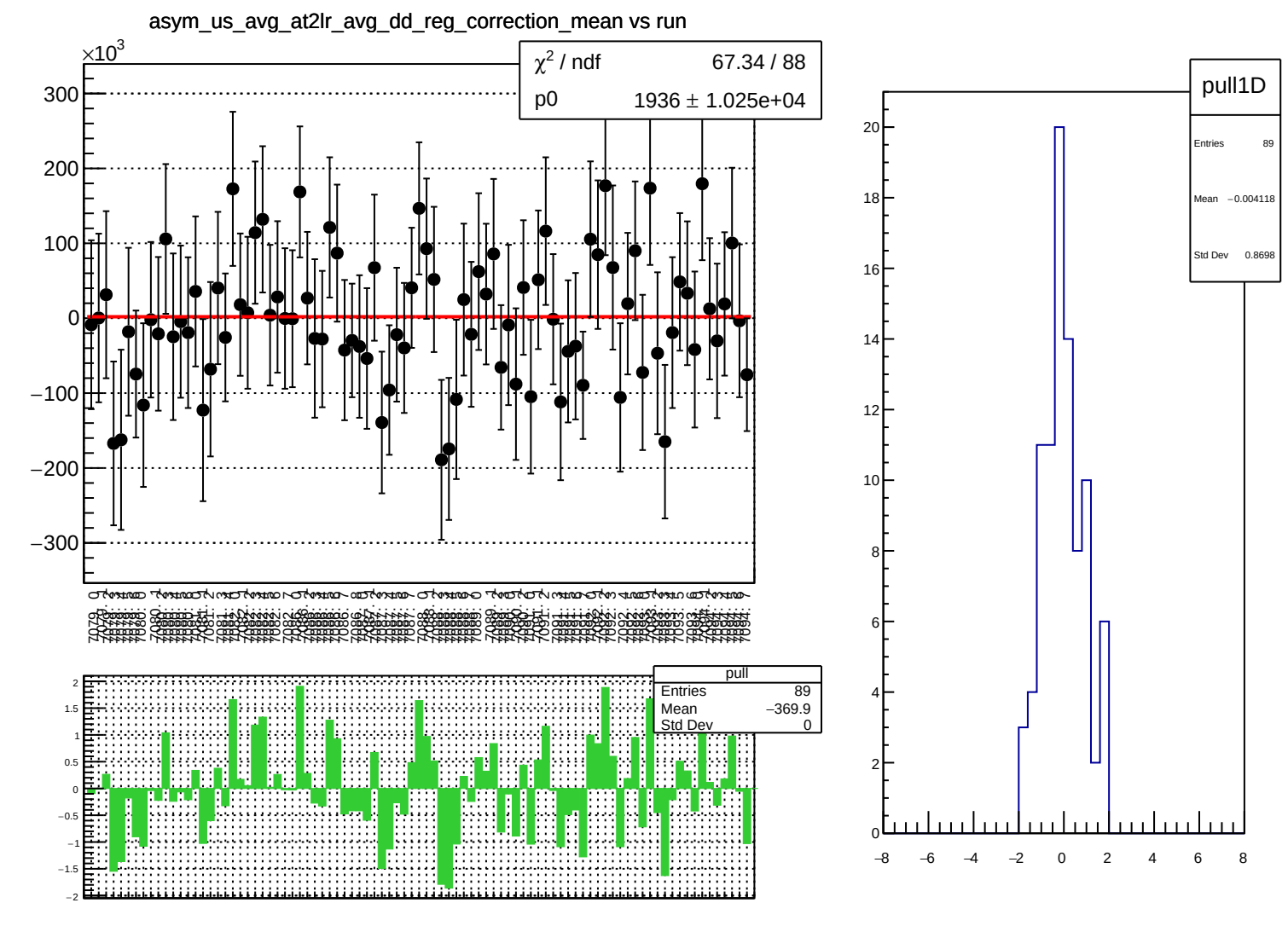

pull1D
Entries 89
Mean −0.005444
Std Dev 1.072

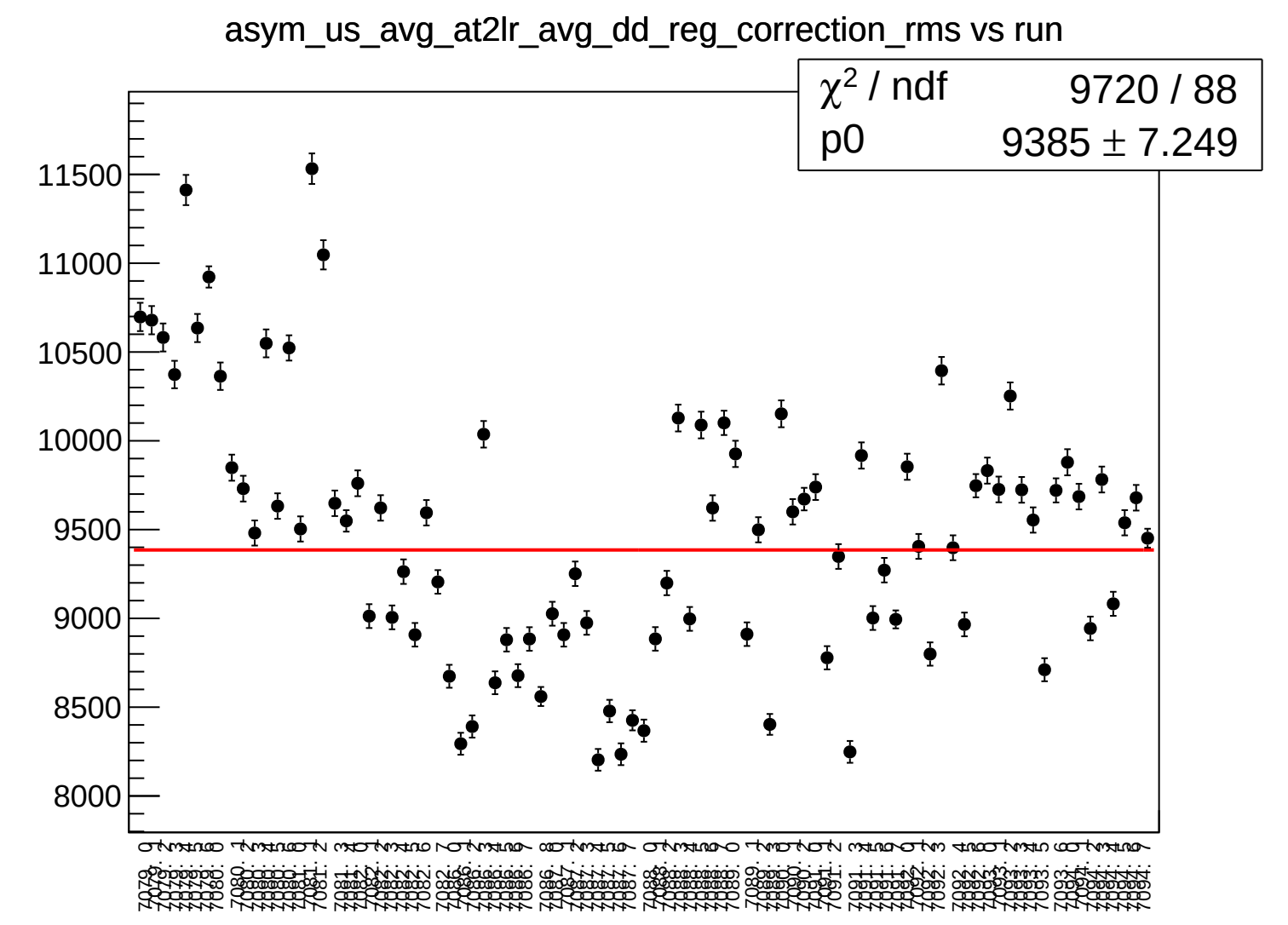

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 3.796e+05 / 88
p0 1.959e−10 ± 1.714e−13

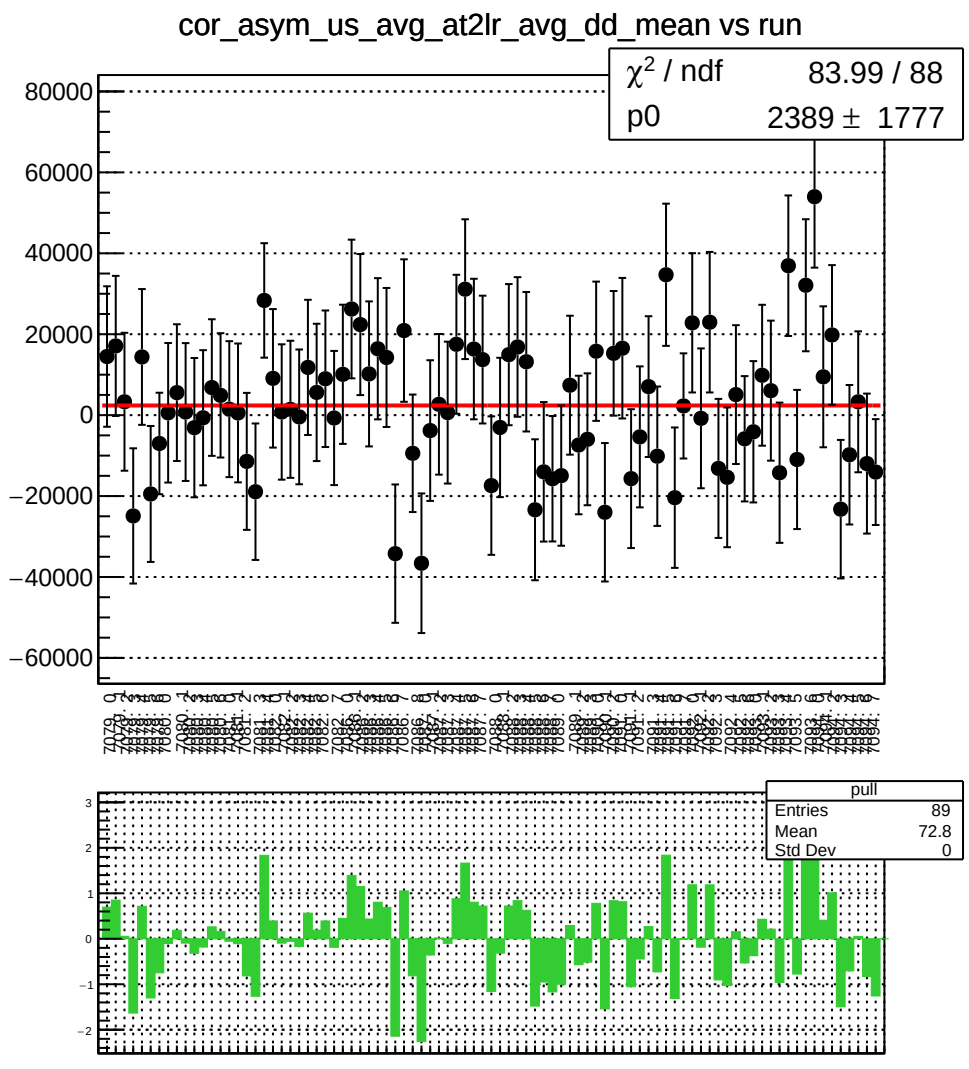

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 83.99 / 88
p0 2388 ± 1777
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 72.75
Std Dev 0
3
2
1
0
−1
−2

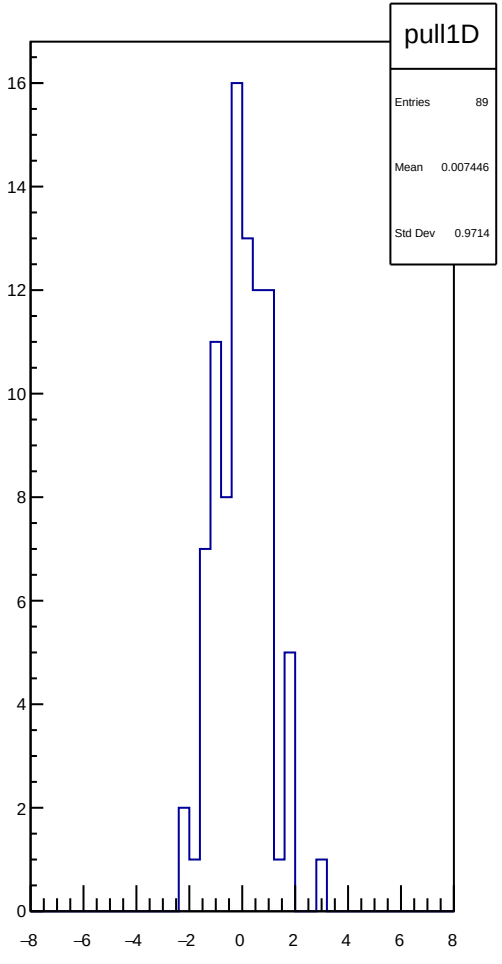

pull1D
Entries 89
Mean 0.007446
Std Dev 0.9714
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

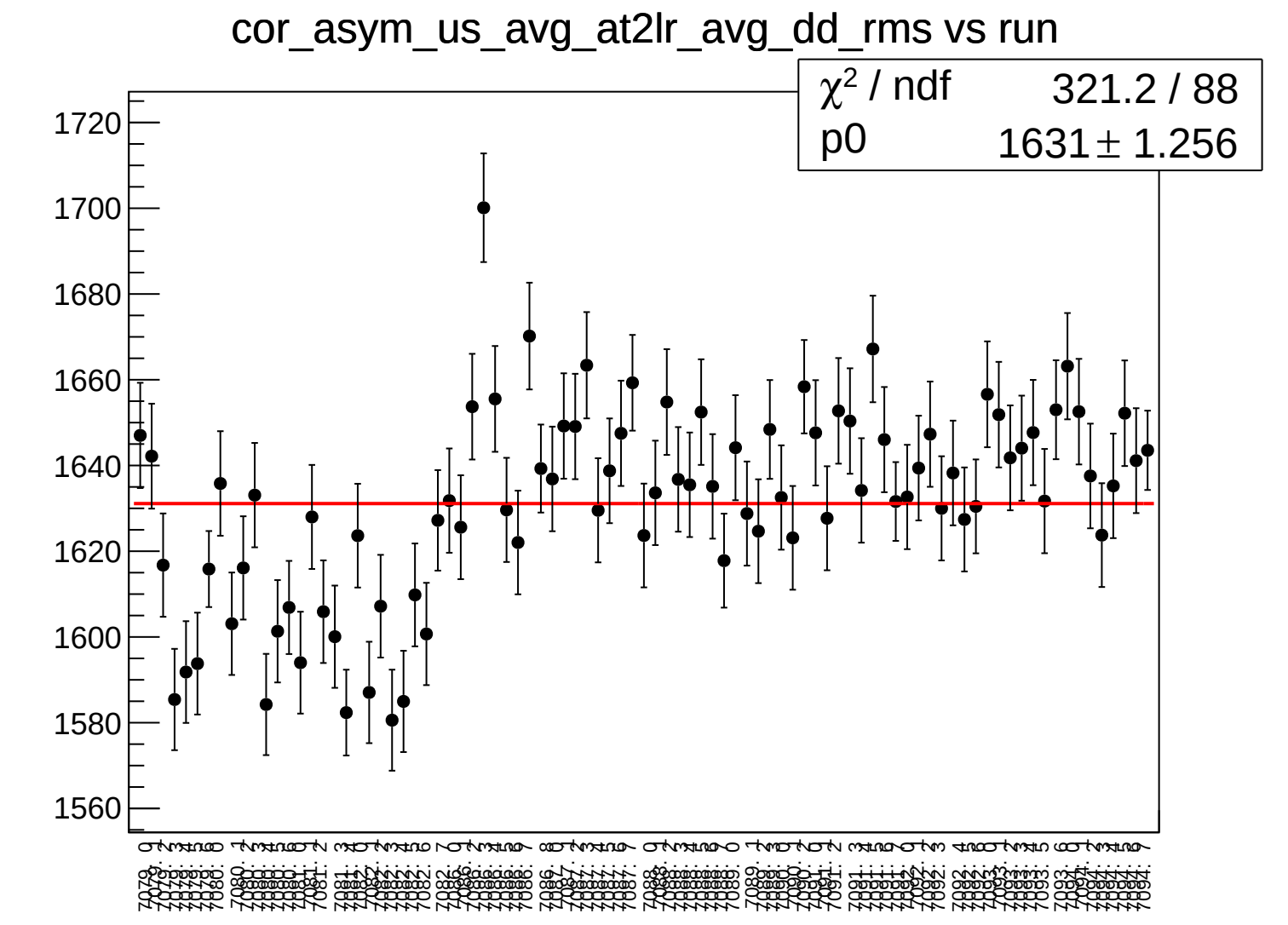

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 321.2 / 88
p0 1631 ± 1.256
1720
1700
1680
1660
1640
1620
1600
1580
1560

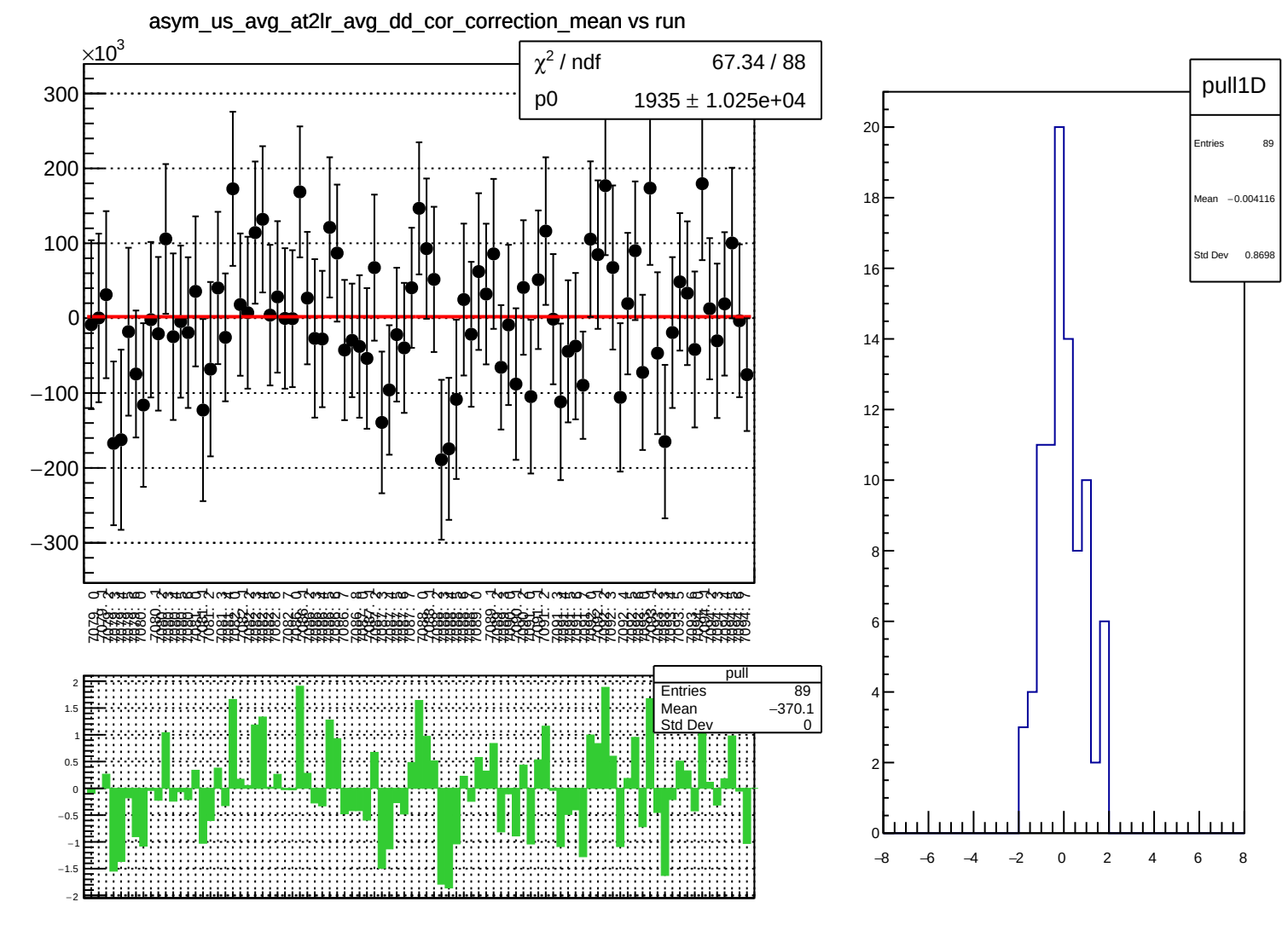

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 67.34 / 88
p0 1936 ± 1.025e+04
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −369.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.004118
Std Dev 0.8698
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

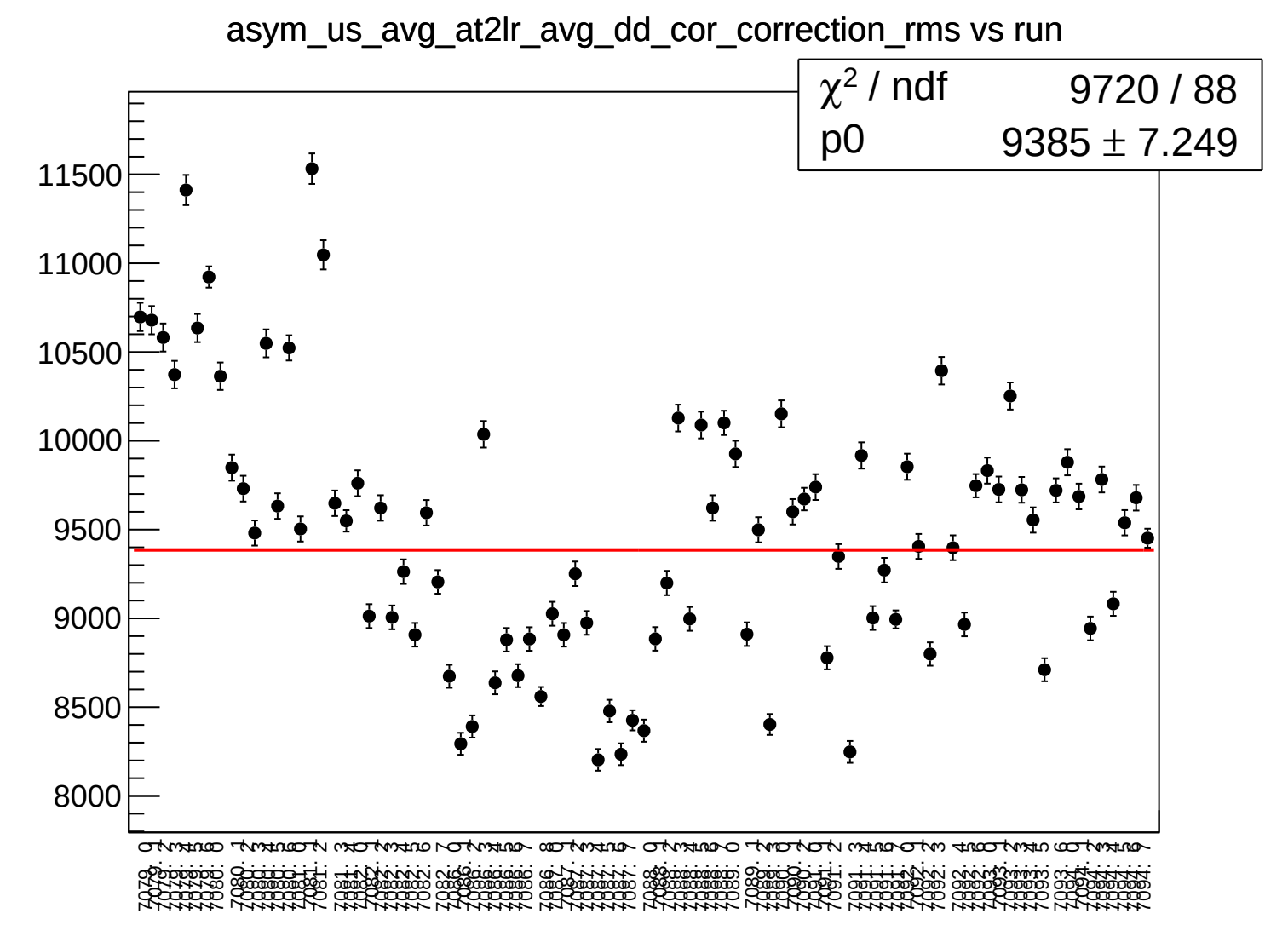

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 9720 / 88
p0 9385 ± 7.249
11500
11000
10500
10000
9500
9000
8500
8000

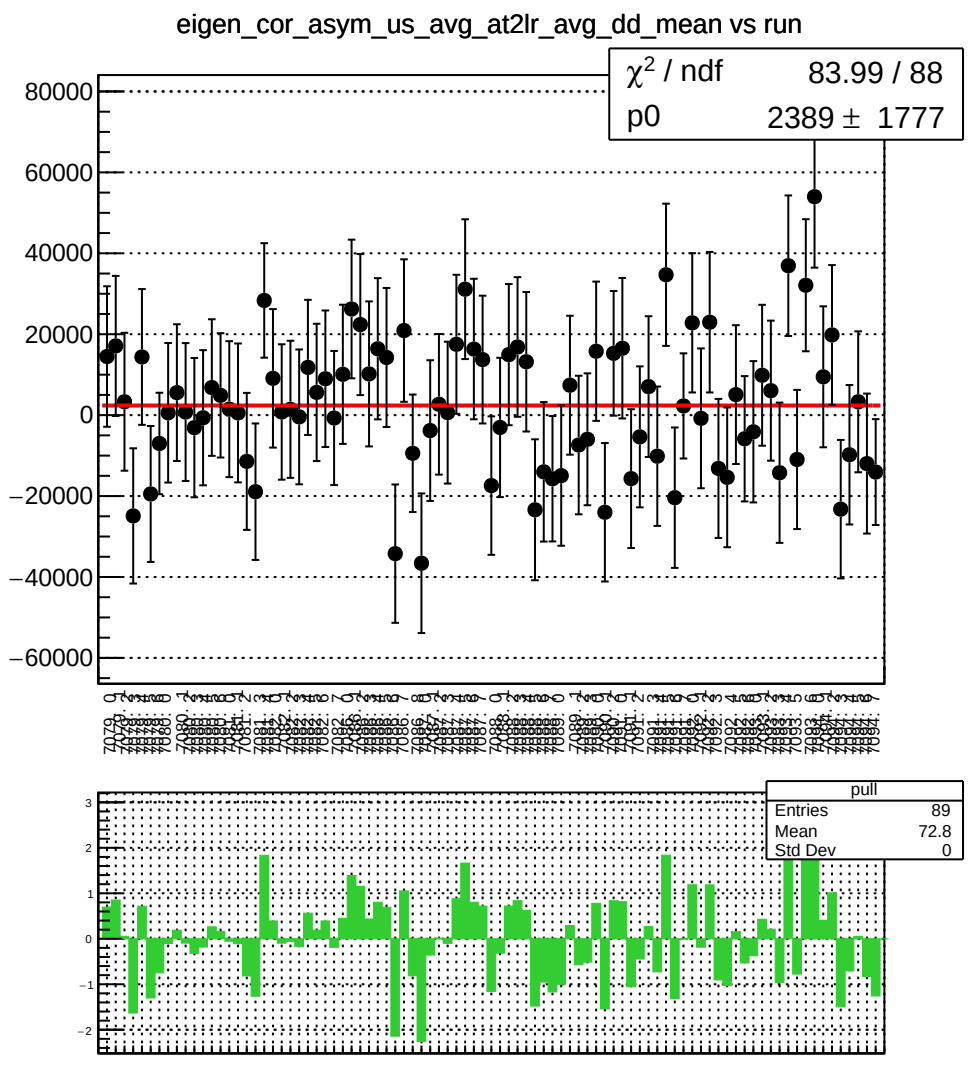

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 83.99 / 88
p0 2389 ± 1777
pull
Entries 89
Mean 72.8
Std Dev 0

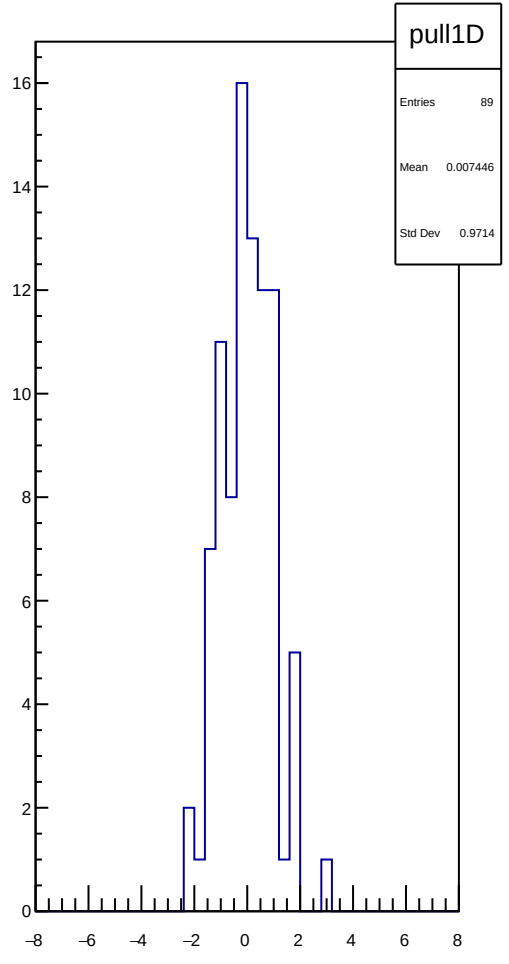

pull1D
Entries 89
Mean 0.007446
Std Dev 0.9714

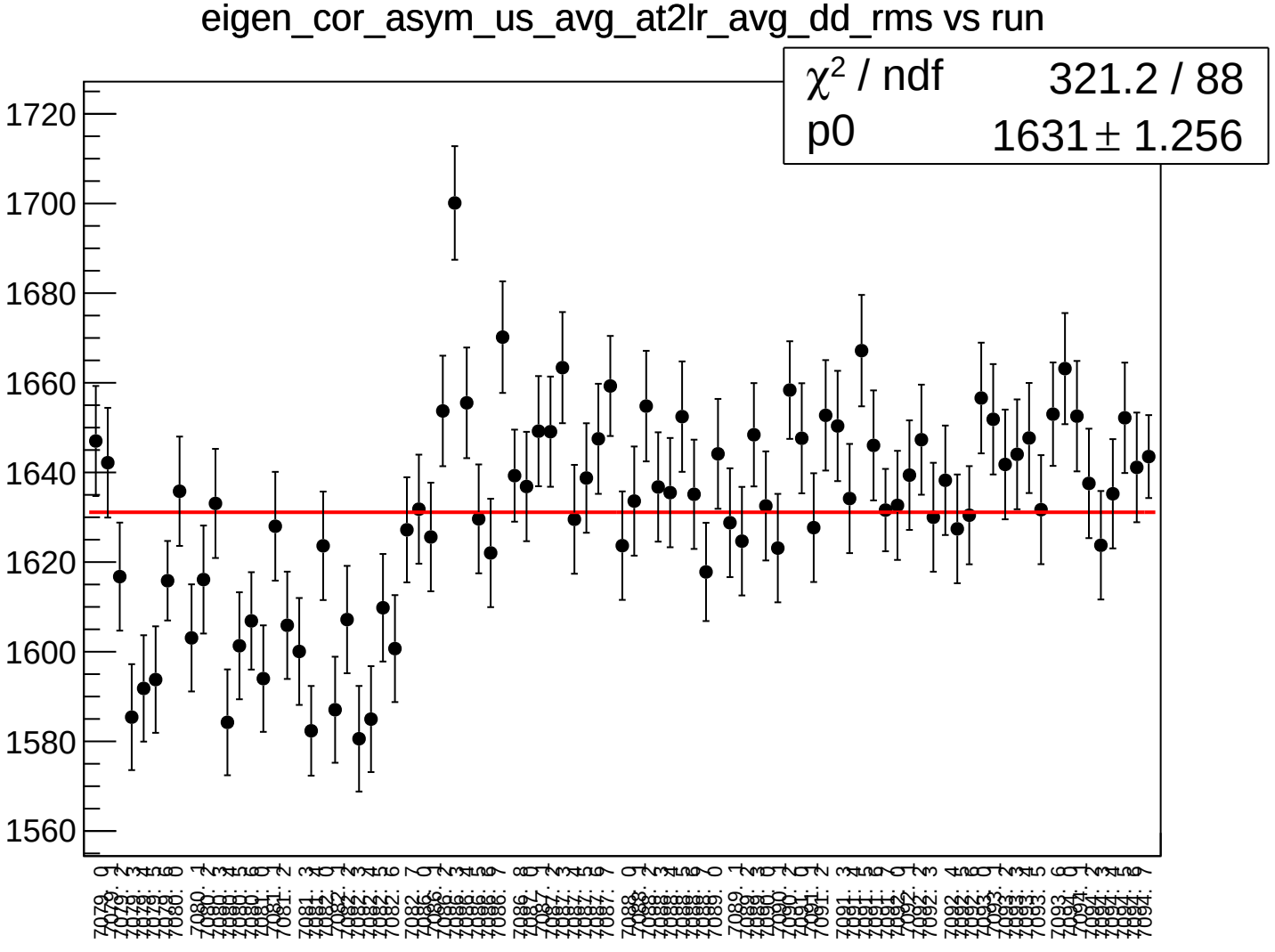

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 321.2 / 88
p0 1631 ± 1.256
1720
1700
1680
1660
1640
1620
1600
1580
1560

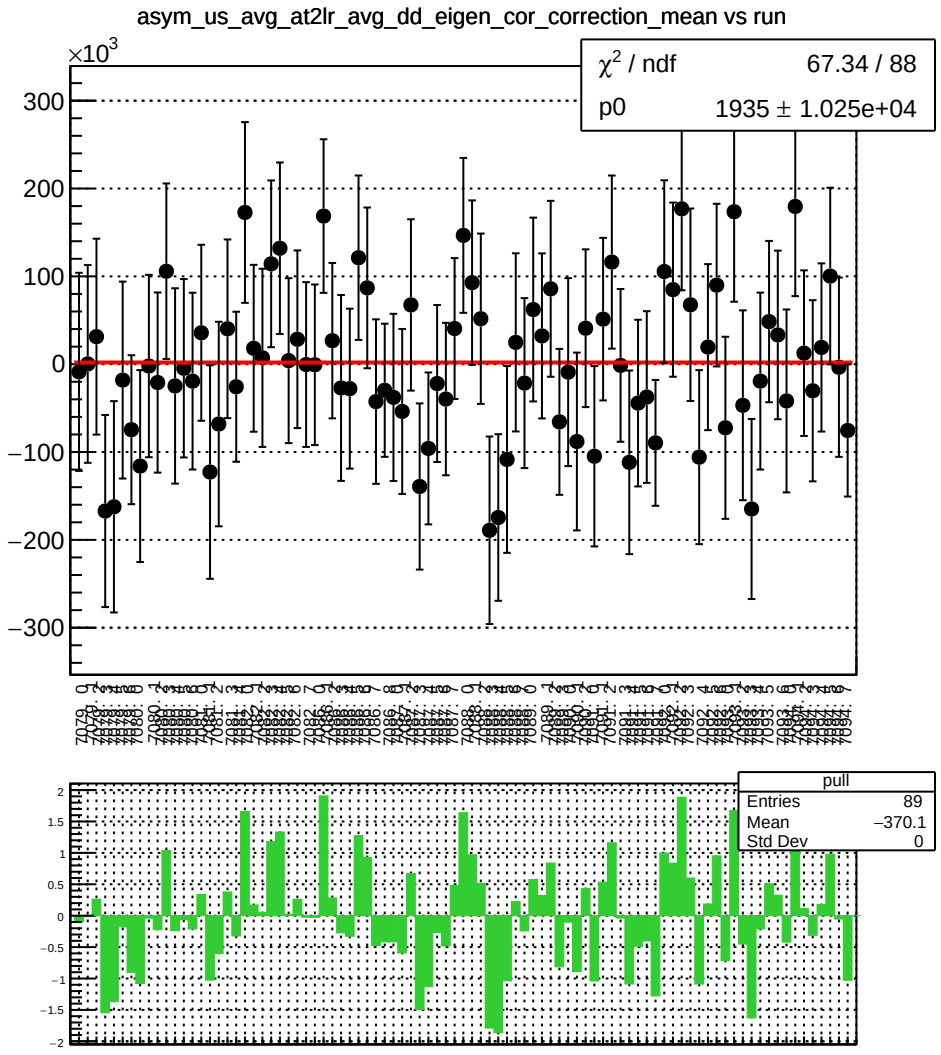

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 67.34 / 88
p0 1935 ± 1.025e+04
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −370.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.004116
Std Dev 0.8698
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

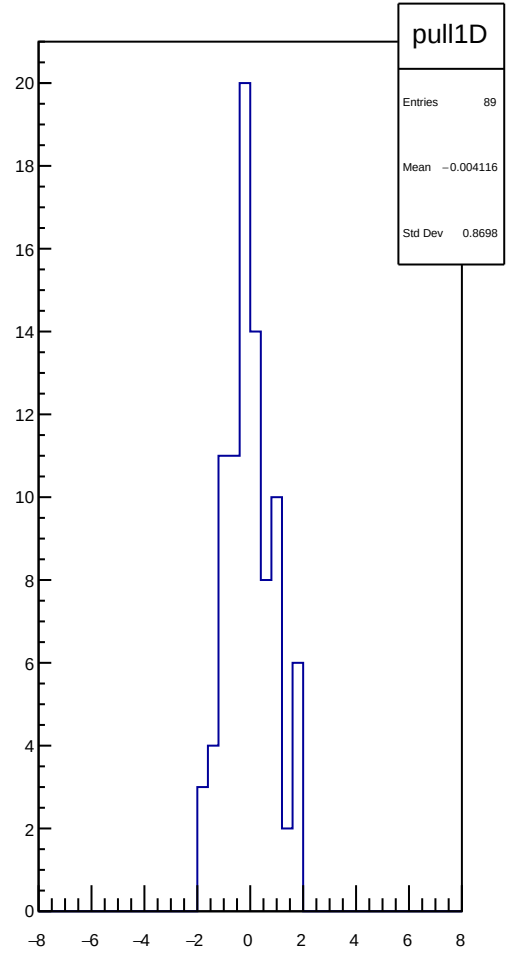

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 9720 / 88
p0 9385 ± 7.249
11500
11000
10500
10000
9500
9000
8500
8000

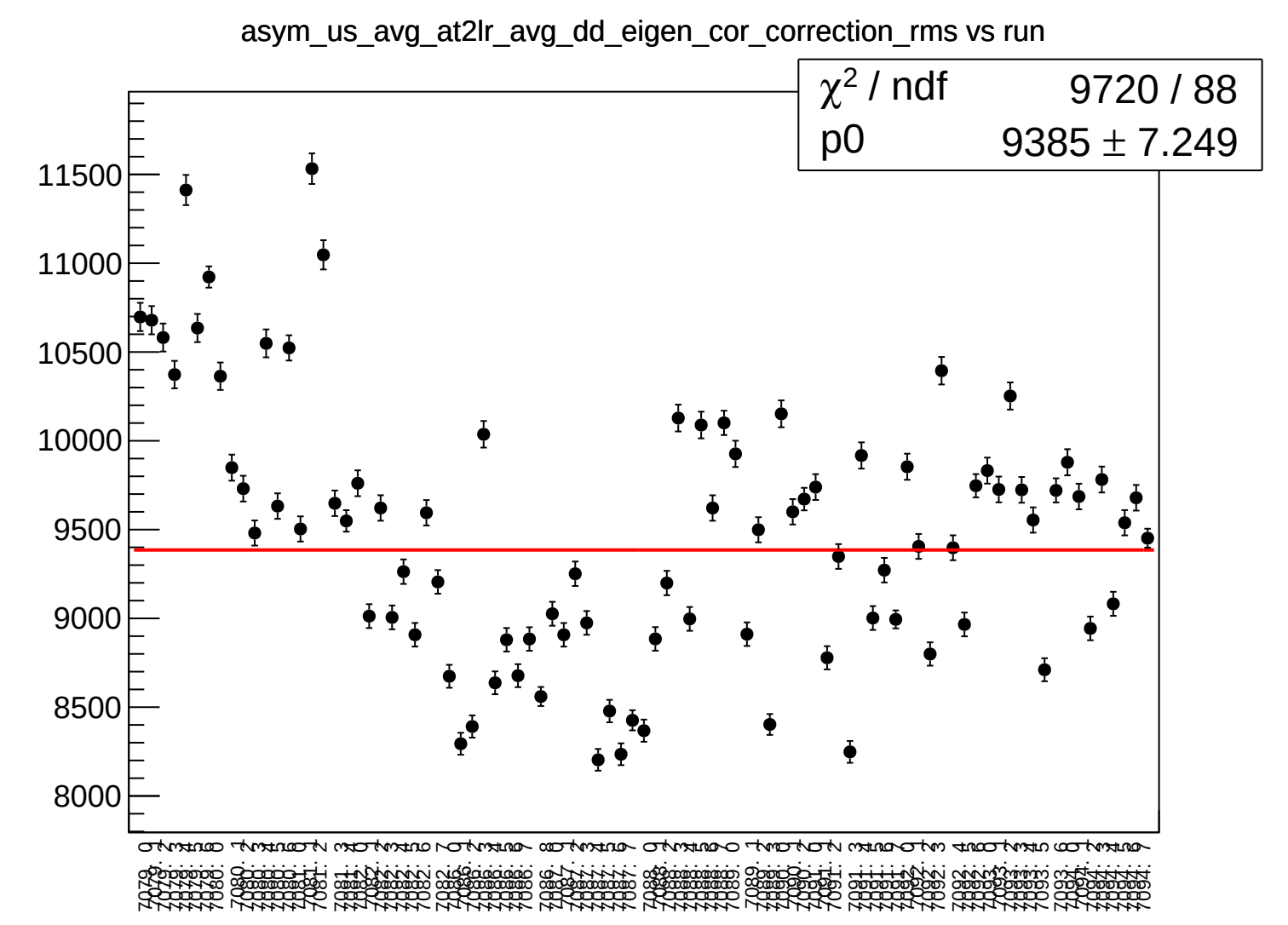

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 83.99 / 88
p0 2389 ± 1777
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 72.8
Std Dev 0
3
2
1
0
−1
−2

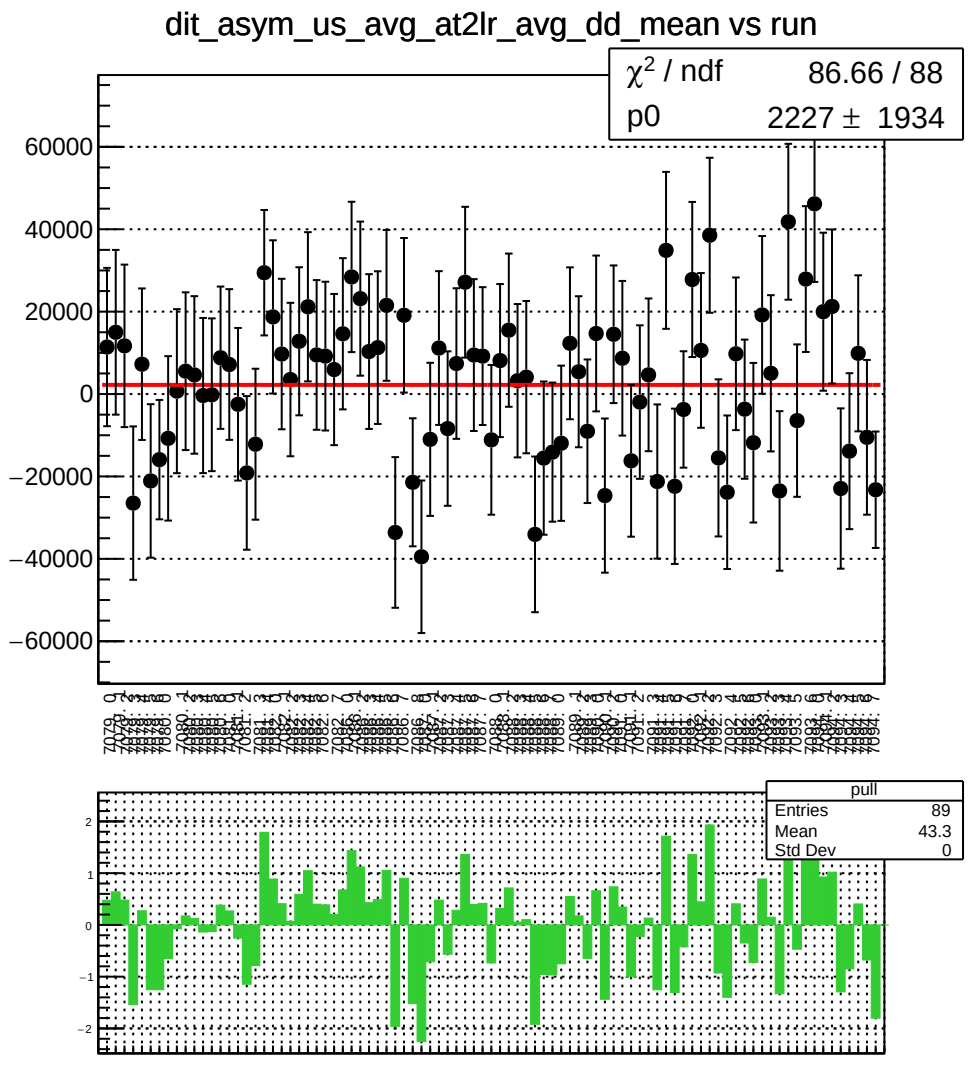

pull1D
Entries 89
Mean 0.007446
Std Dev 0.9714
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

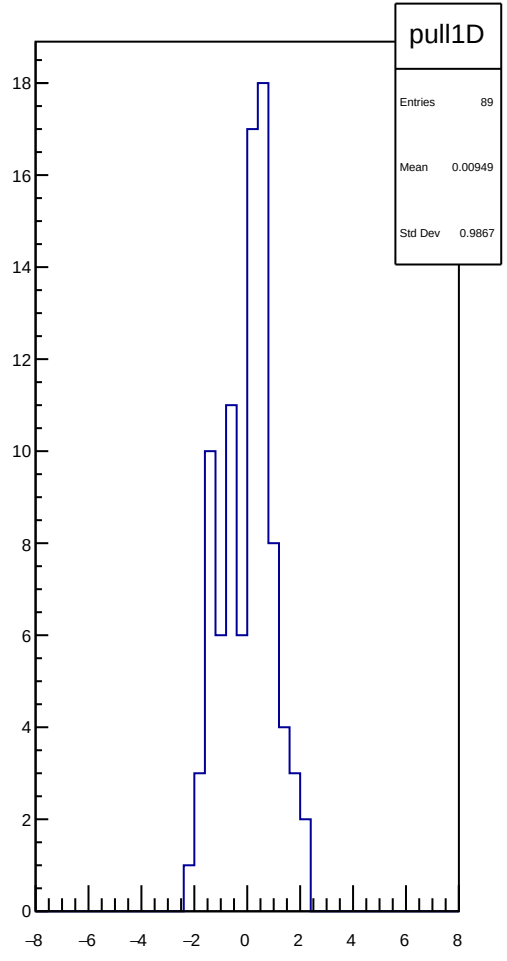

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 321.2 / 88
p0 1631 ± 1.256
1720
1700
1680
1660
1640
1620
1600
1580
1560

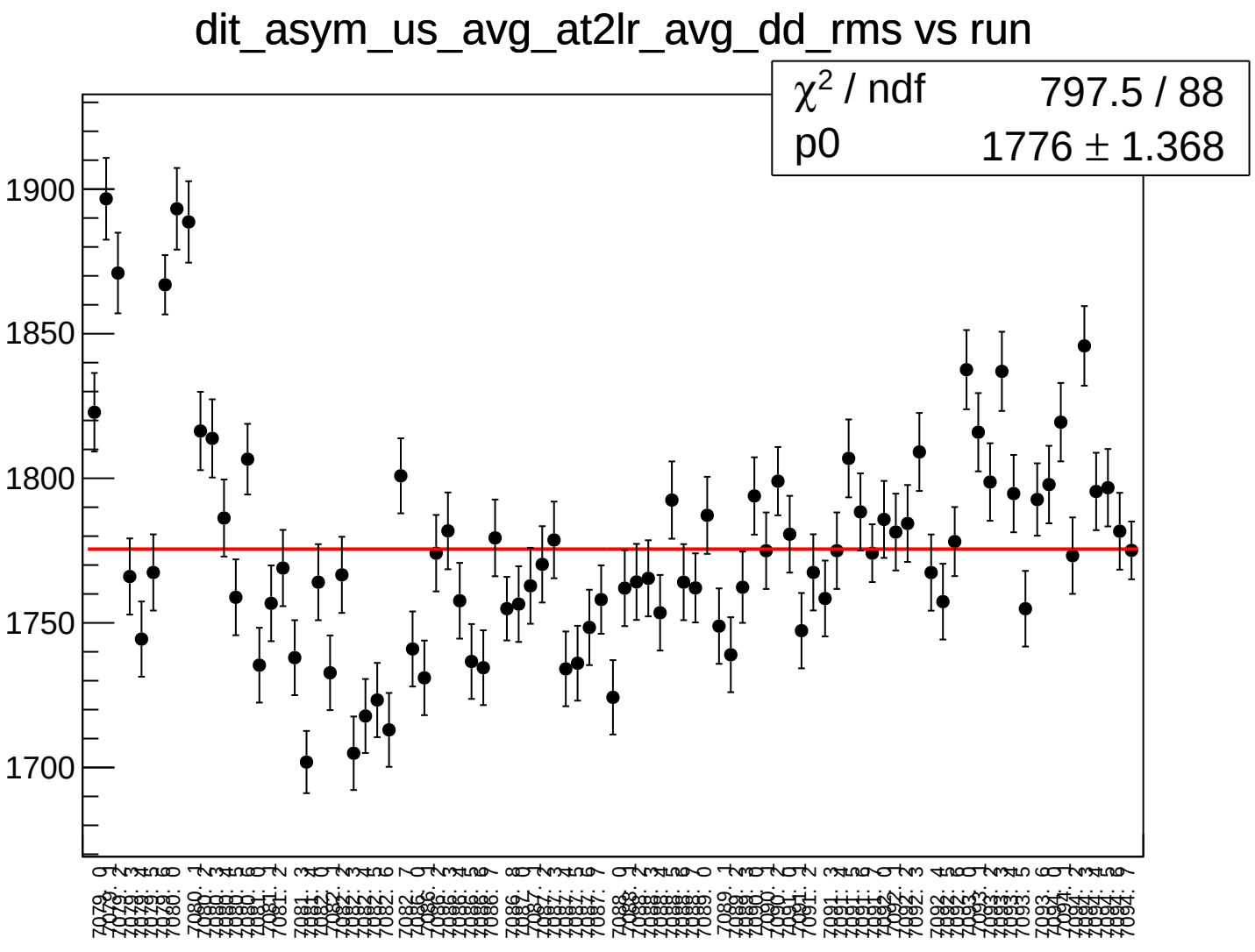

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.34 / 88
p0 1935 ± 1.025e+04
pull
Entries 89
Mean −370.1
Std Dev 0

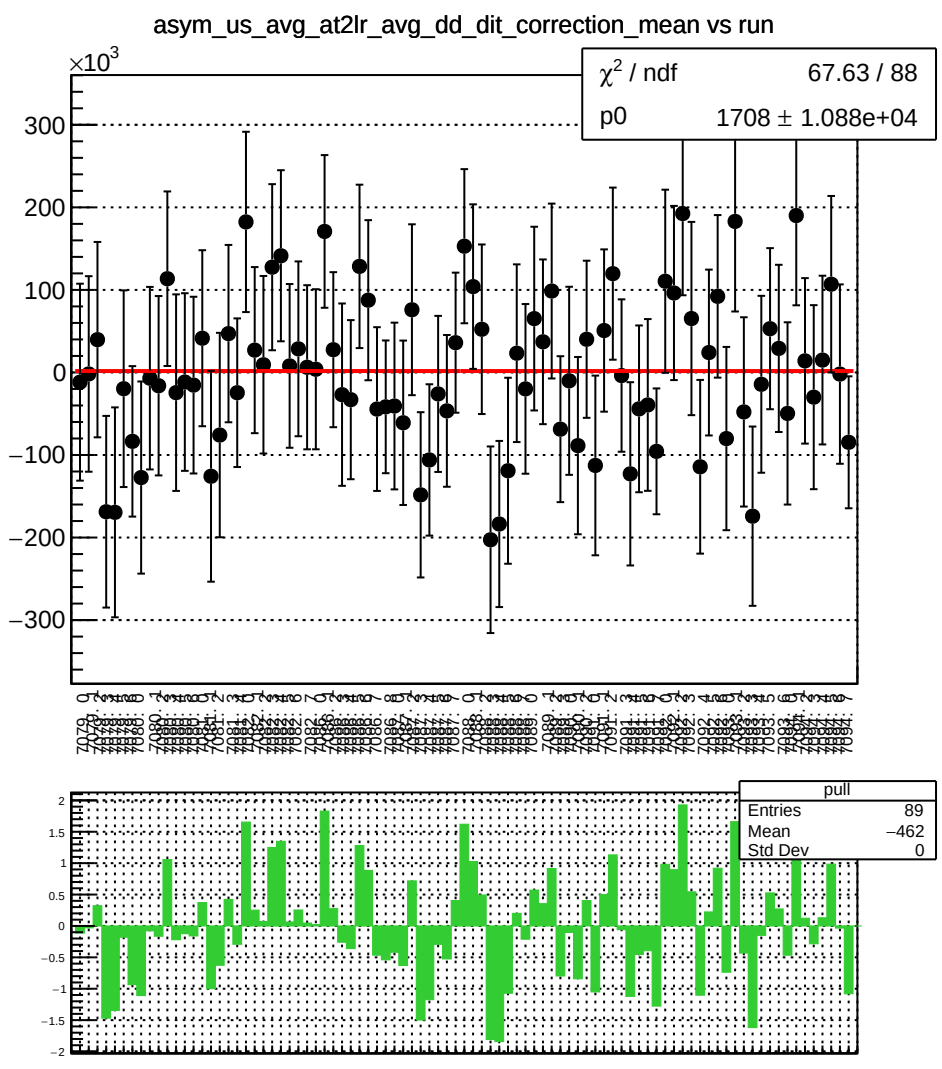

pull1D
Entries 89
Mean −0.004116
Std Dev 0.8698

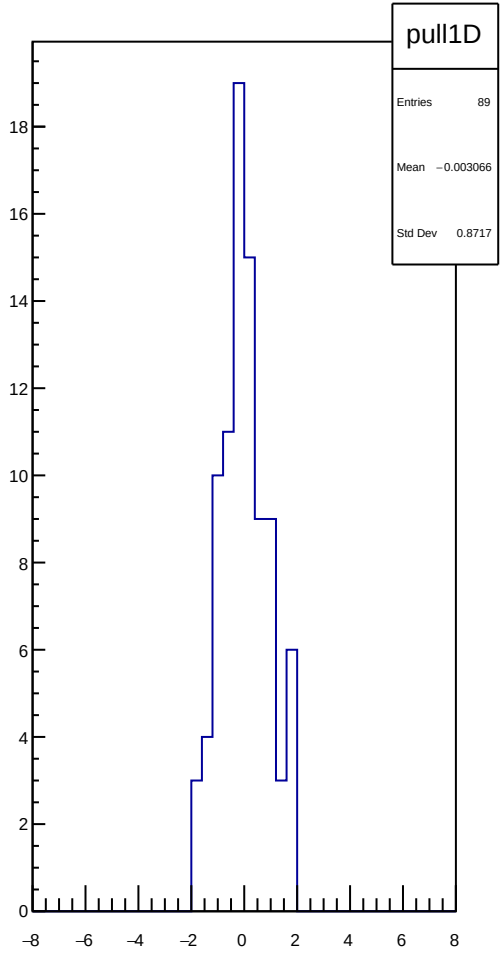

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 9720 / 88
p0 9385 ± 7.249
11500
11000
10500
10000
9500
9000
8500
8000

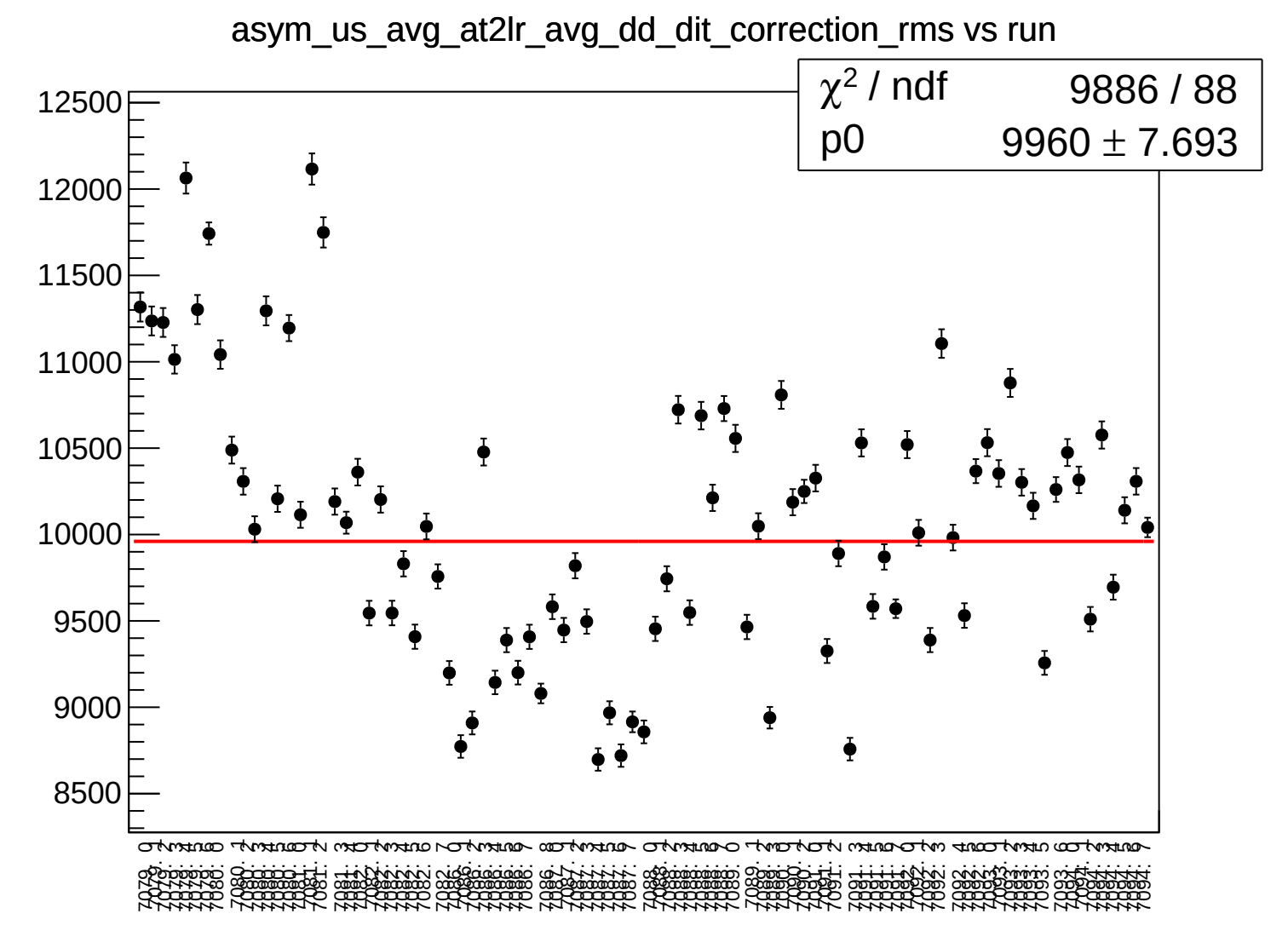

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 86.66 / 88
p0 2227 ± 1934
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 43.3
Std Dev 0
2
1
0
−1
−2

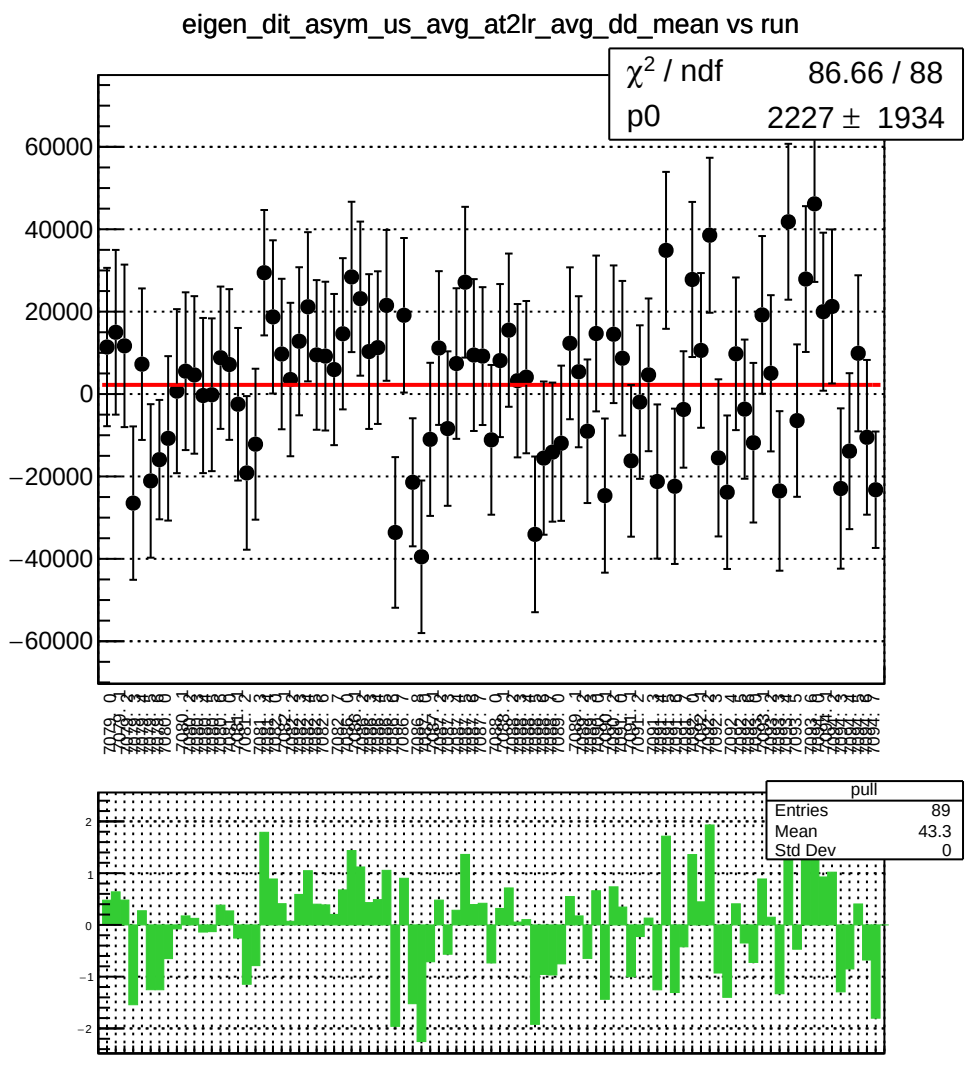

pull1D
Entries 89
Mean 0.00949
Std Dev 0.9867
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

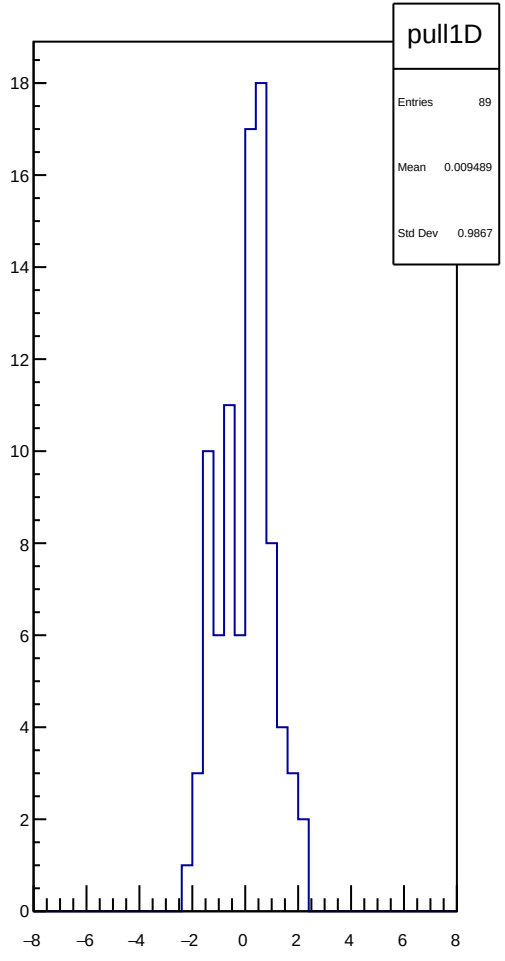

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 797.5 / 88
p0 1776 ± 1.368
1900
1850
1800
1750
1700

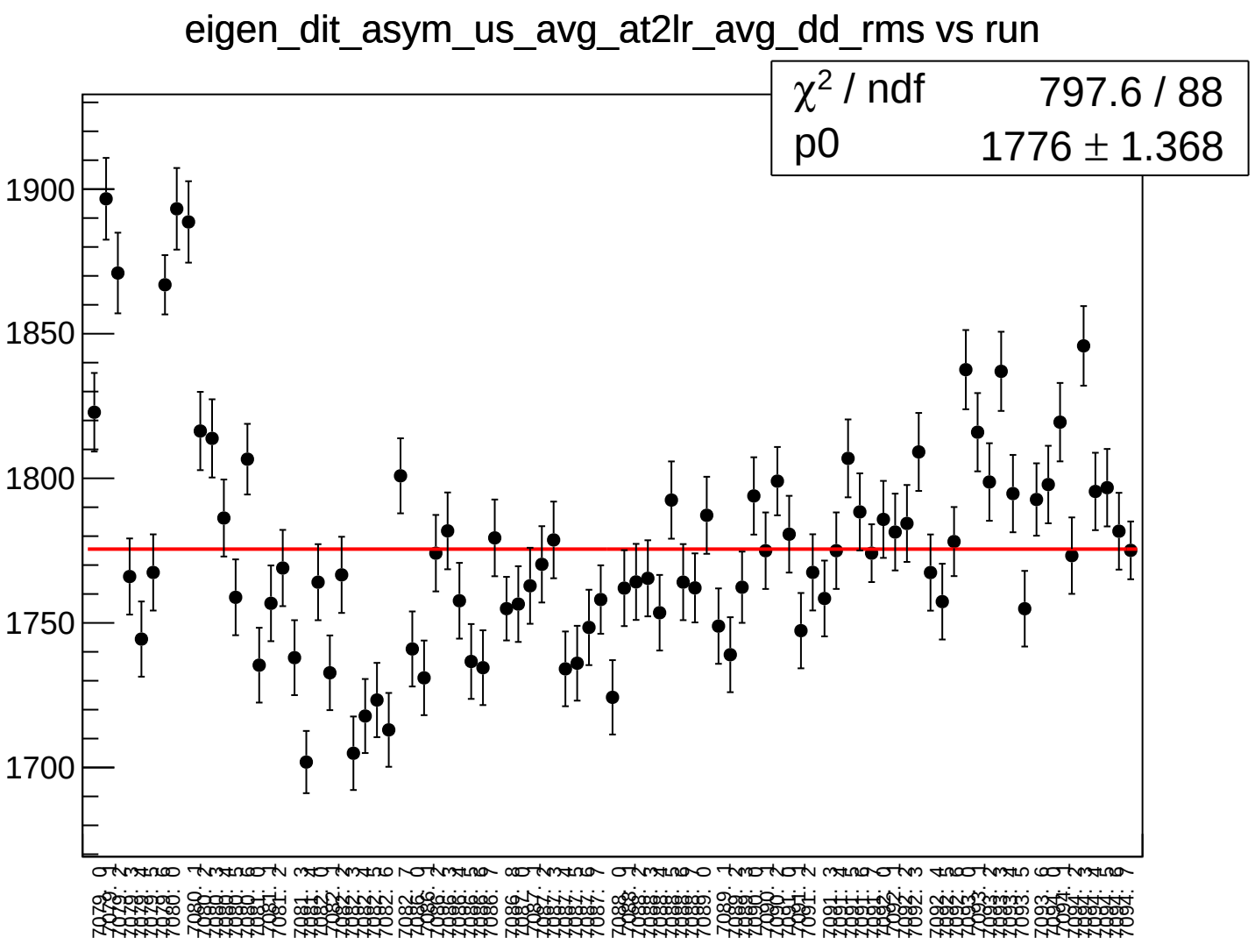

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 67.63 / 88
p0 1708 ± 1.088e+04
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −462
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

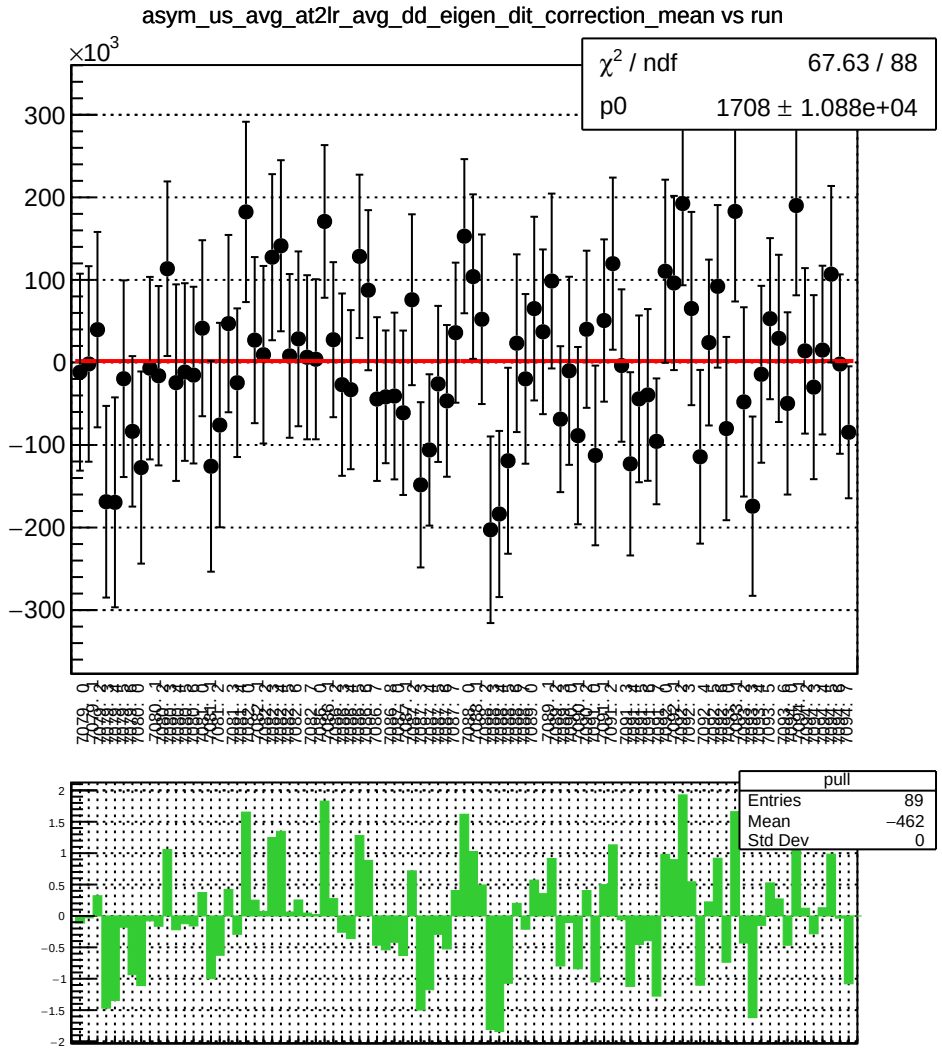

pull1D
Entries 89
Mean −0.003066
Std Dev 0.8717
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

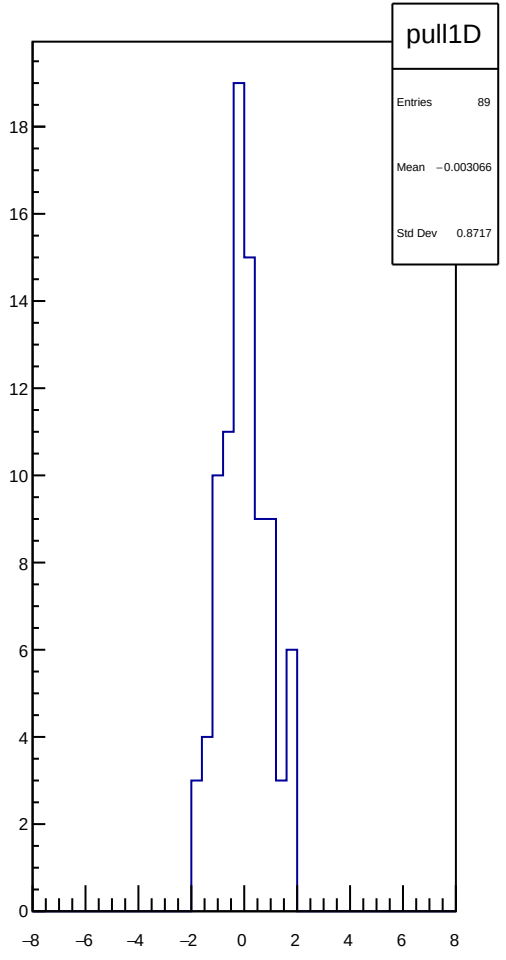

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 9886 / 88
p0 9960 ± 7.693
12500
12000
11500
11000
10500
10000
9500
9000
8500

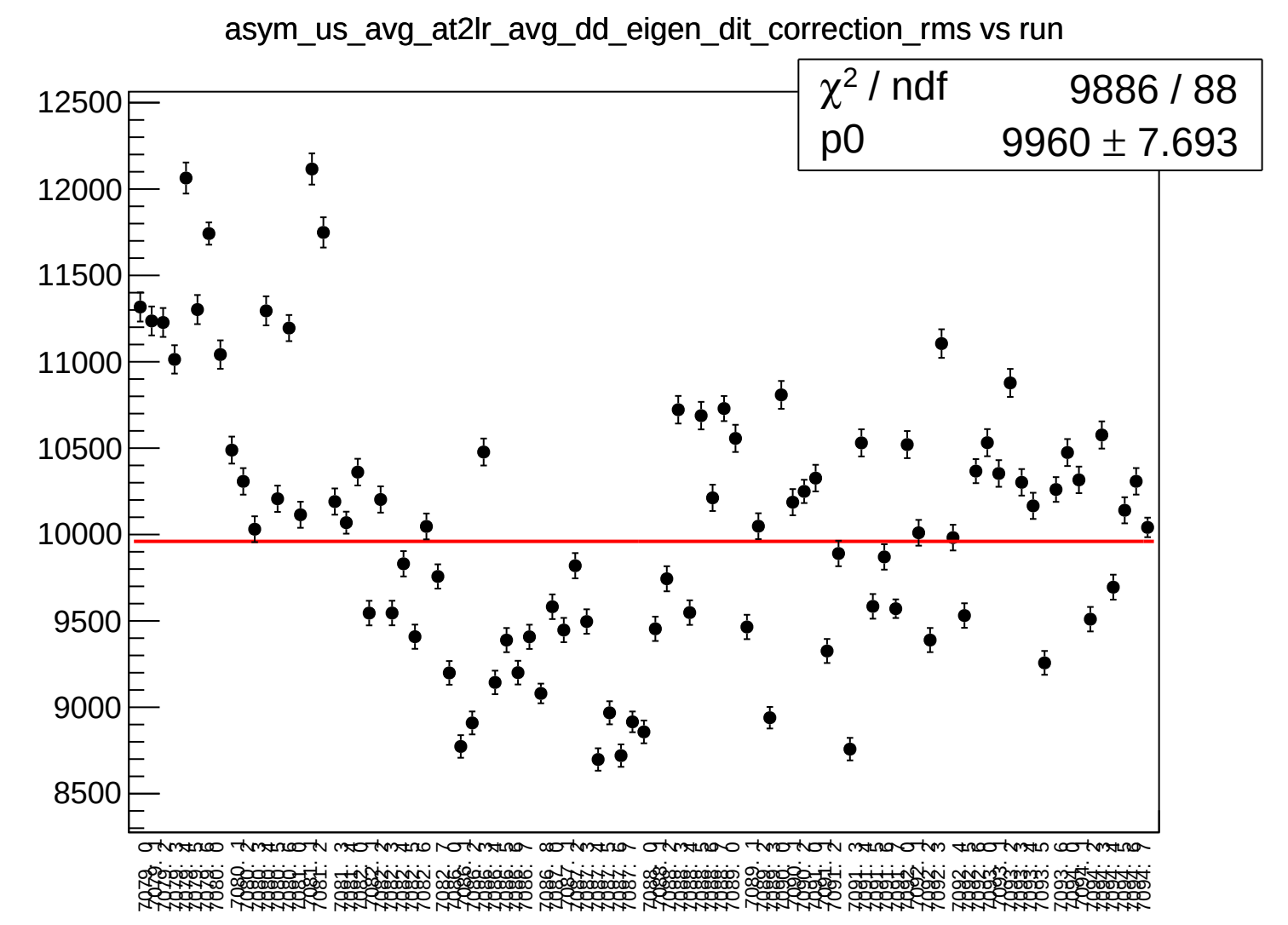

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 86.66 / 88
p0 2227 ± 1934
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 43.3
Std Dev 0
2
1
0
−1
−2

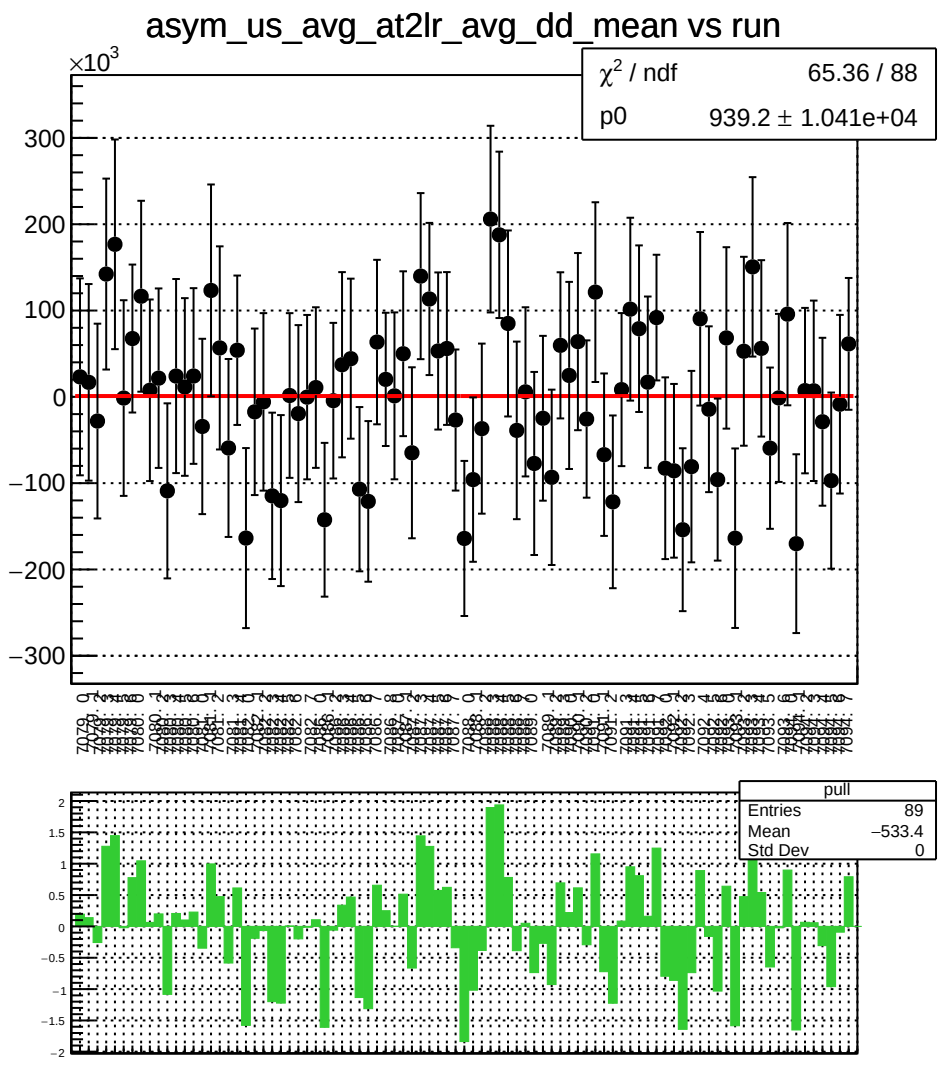

pull1D
Entries 89
Mean 0.009489
Std Dev 0.9867
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

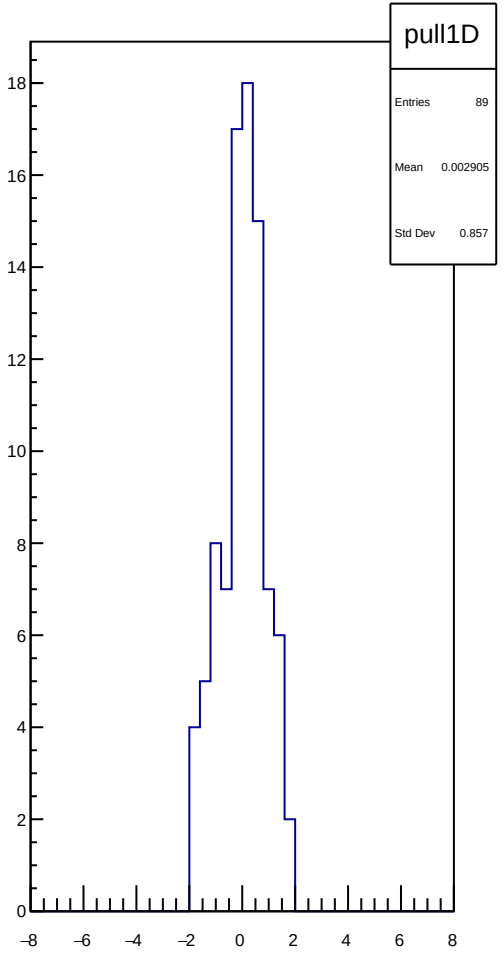

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 797.6 / 88
p0 1776 ± 1.368
1900
1850
1800
1750
1700

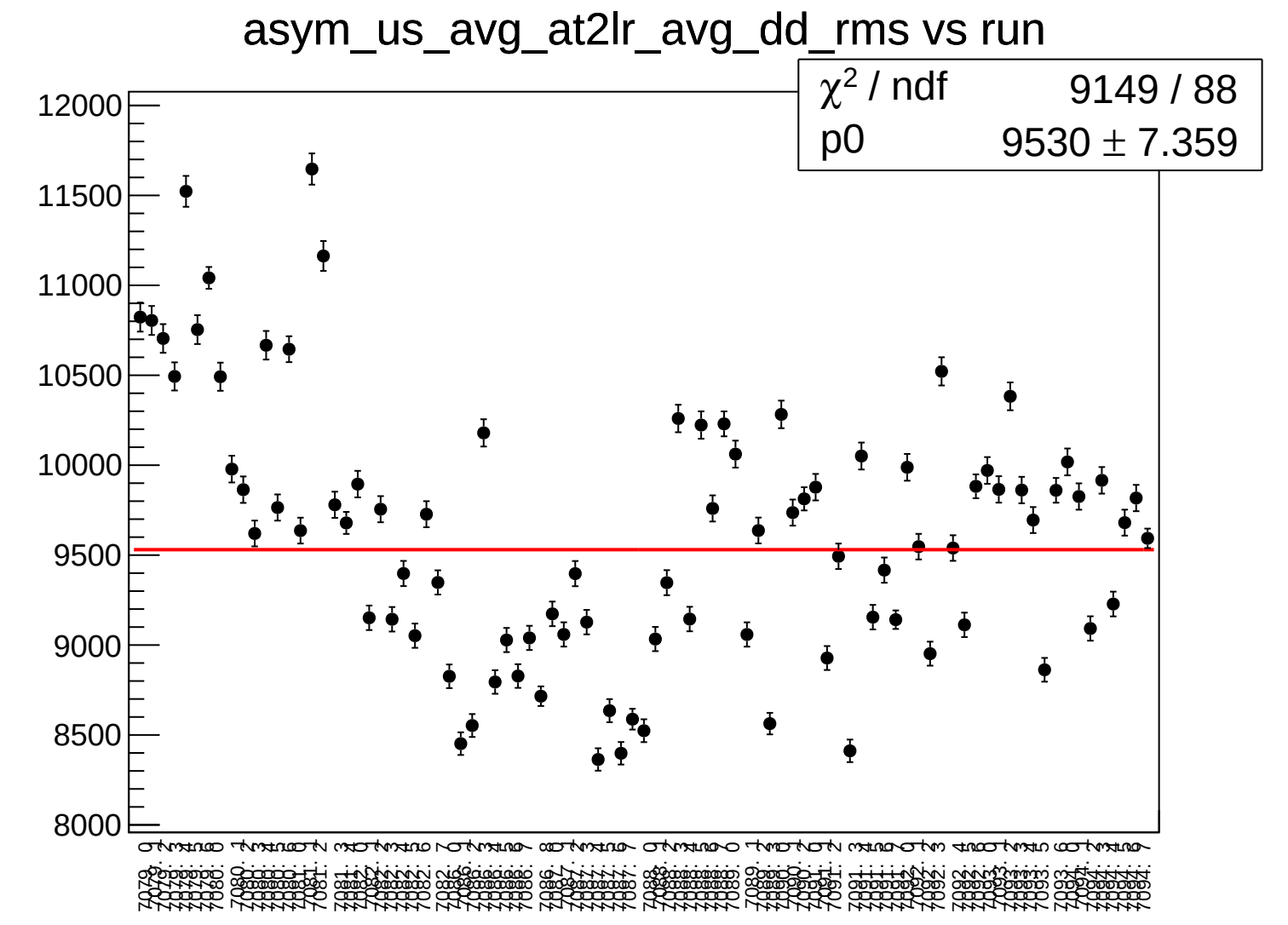

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.63 / 88
p0 1708 ± 1.088e+04
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −462
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

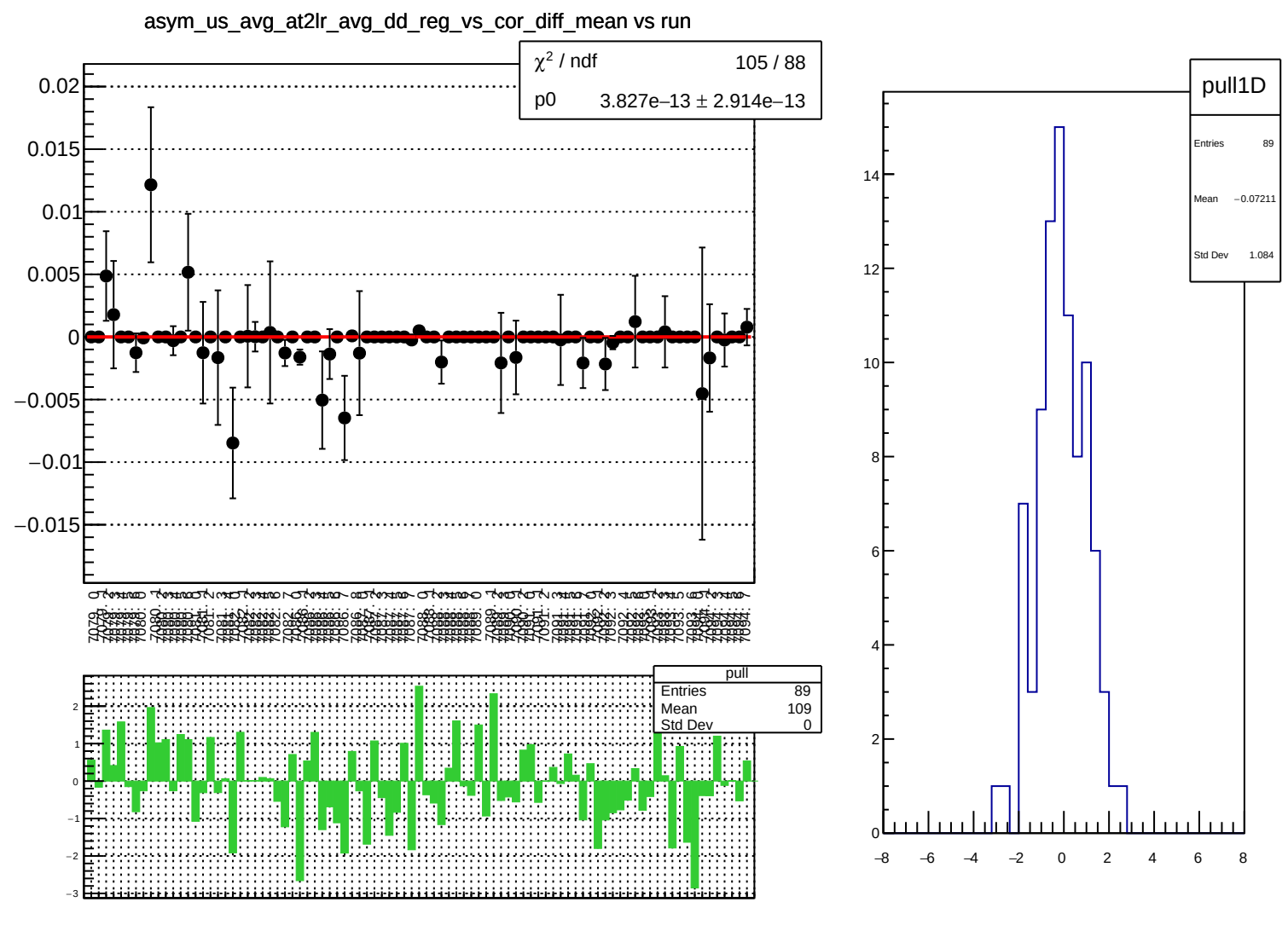

pull1D
Entries 89
Mean −0.003066
Std Dev 0.8717
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

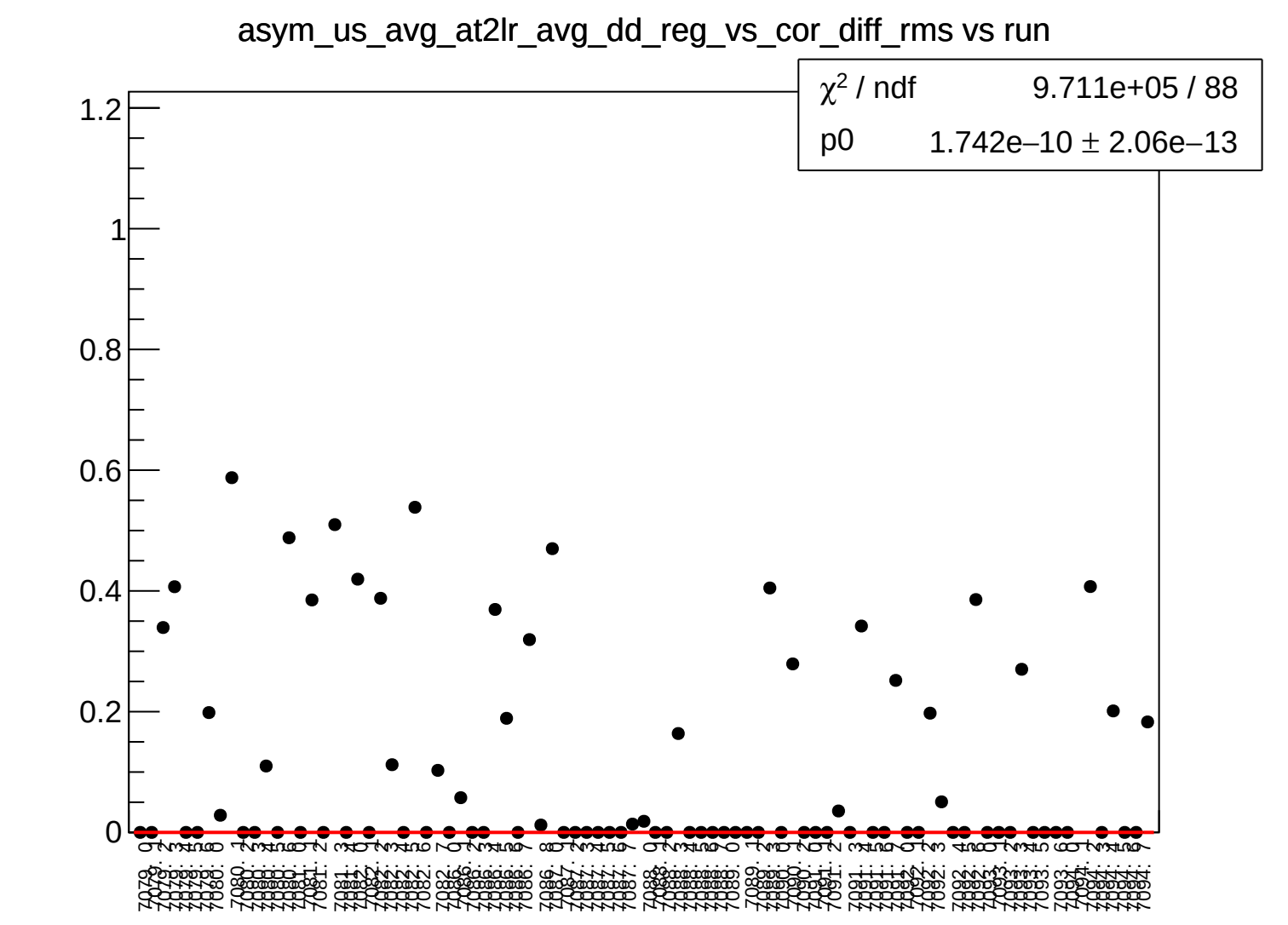

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 9886 / 88
p0 9960 ± 7.693
12500
12000
11500
11000
10500
10000
9500
9000
8500

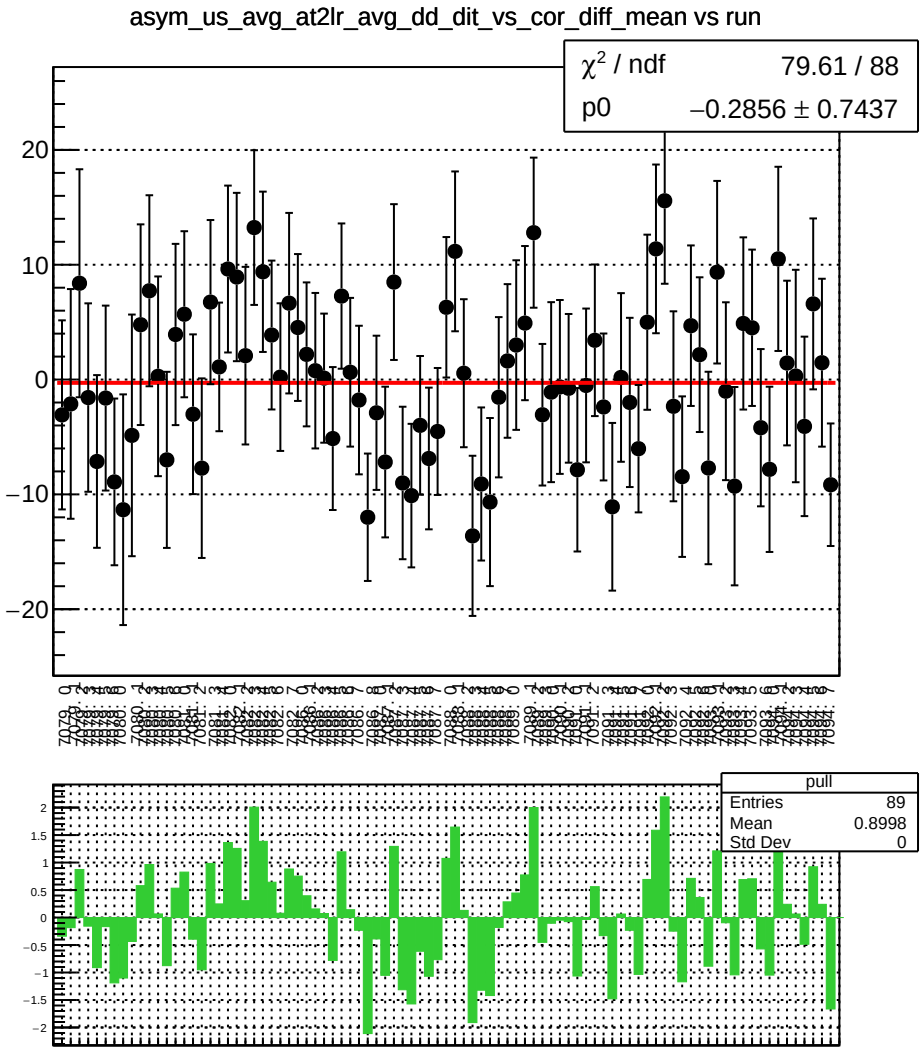

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 65.36 / 88
p0 939.2 ± 1.041e+04
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −533.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

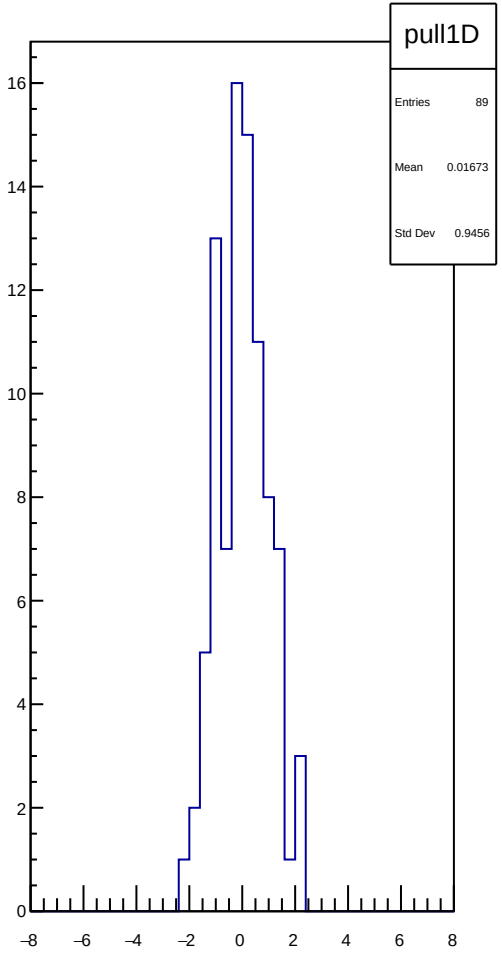

pull1D
Entries 89
Mean 0.002905
Std Dev 0.857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

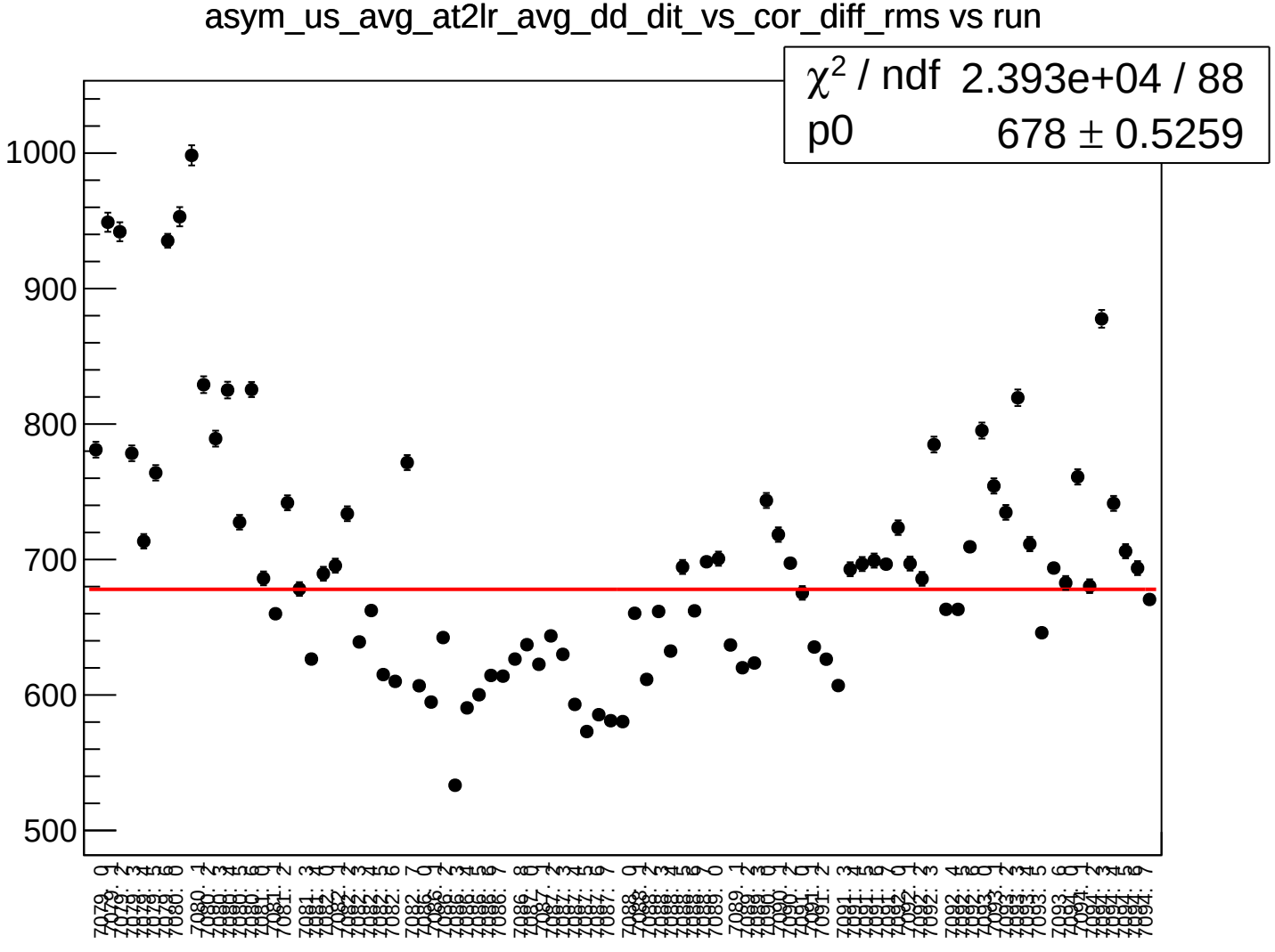

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 9149 / 88
p0 9530 ± 7.359
12000
11500
11000
10500
10000
9500
9000
8500
8000

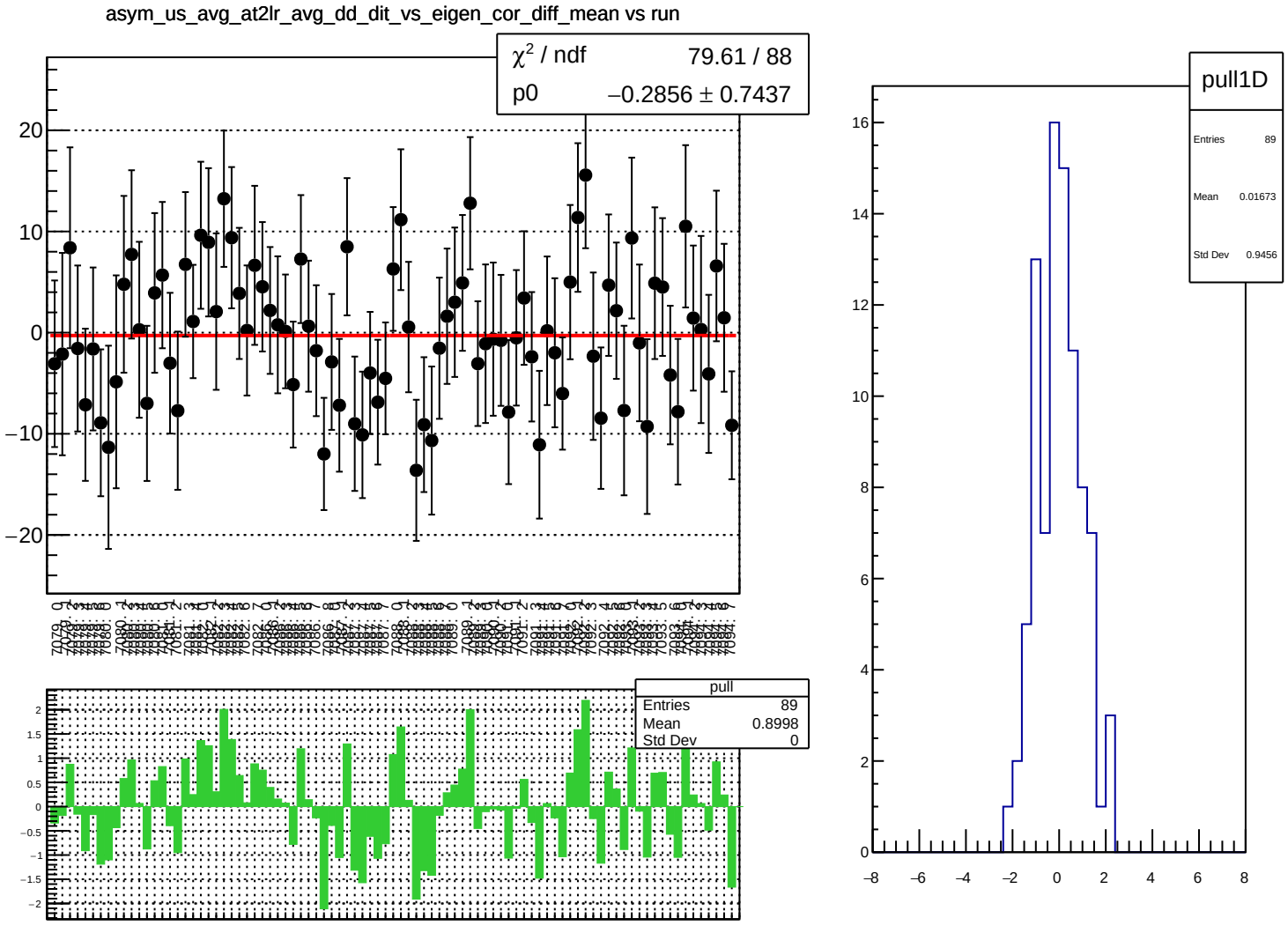

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105 / 88
p0 3.827e−13 ± 2.914e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 109
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.07211
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

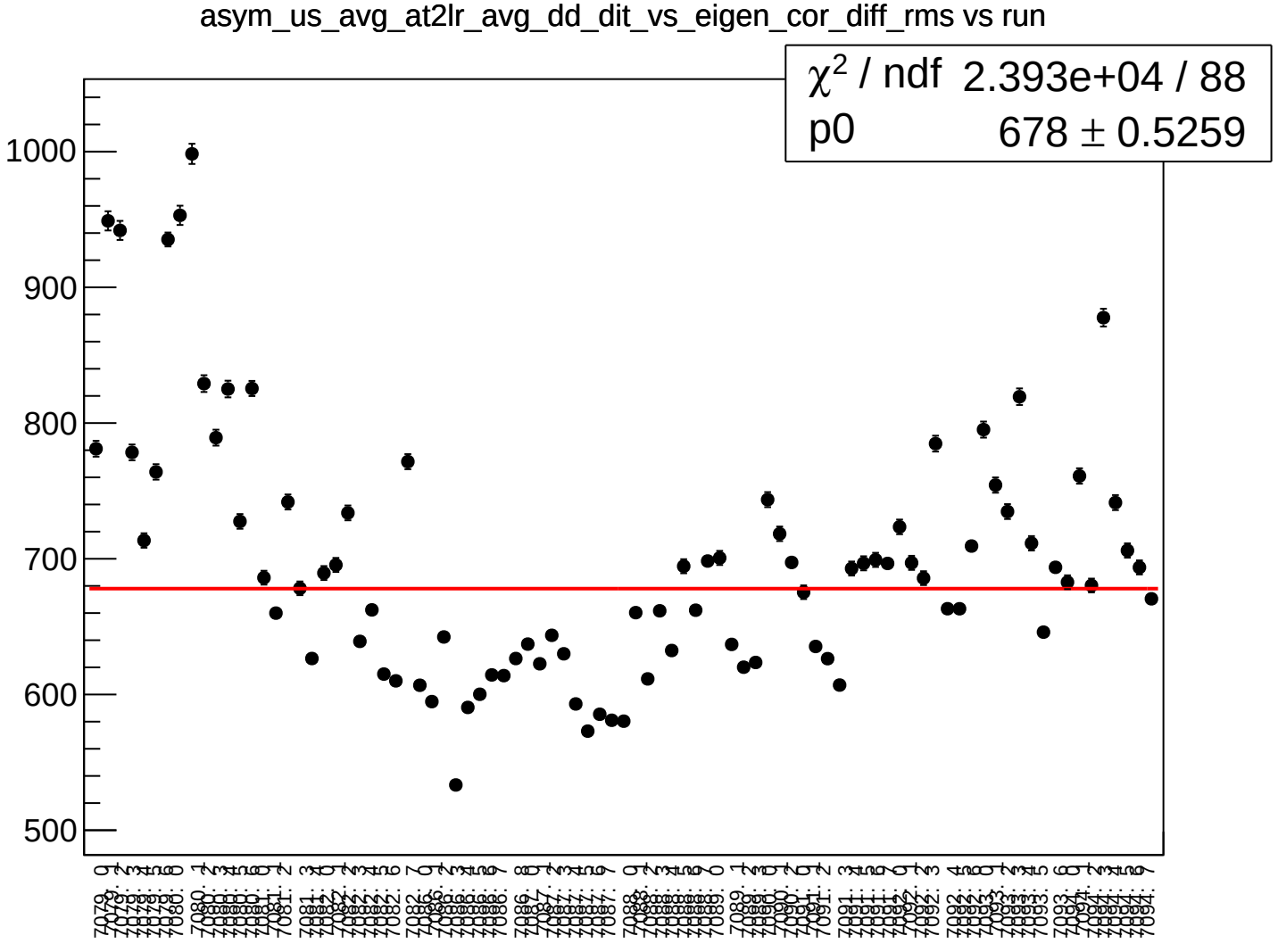

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.711e+05 / 88
p0 1.742e−10 ± 2.06e−13
1.2
1
0.8
0.6
0.4
0.2
0

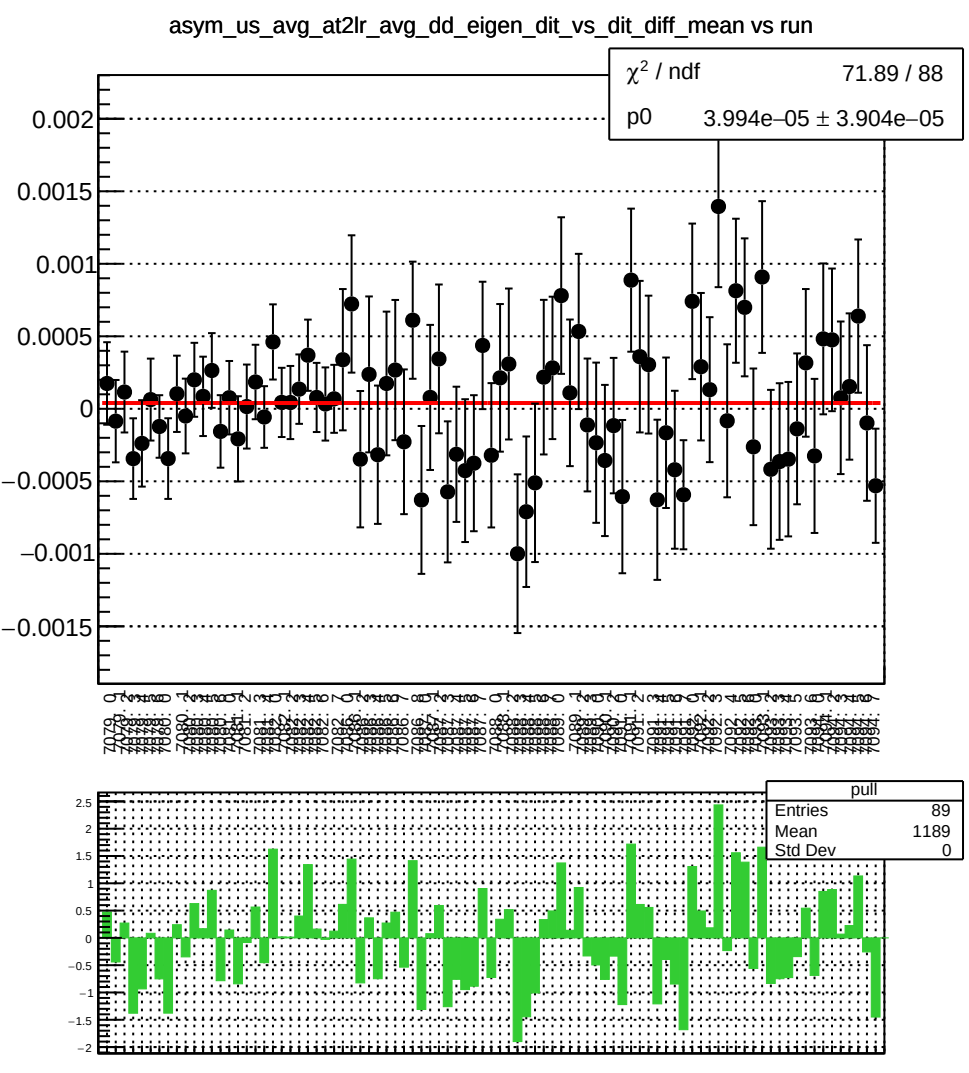

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.61 / 88
p0 −0.2856 ± 0.7437
pull
Entries 89
Mean 0.8998
Std Dev 0

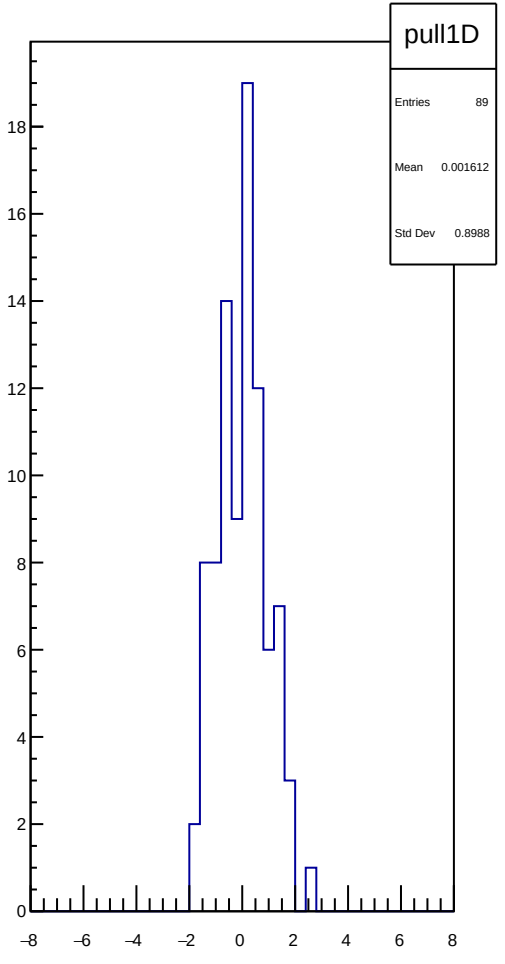

pull1D
Entries 89
Mean 0.01673
Std Dev 0.9456

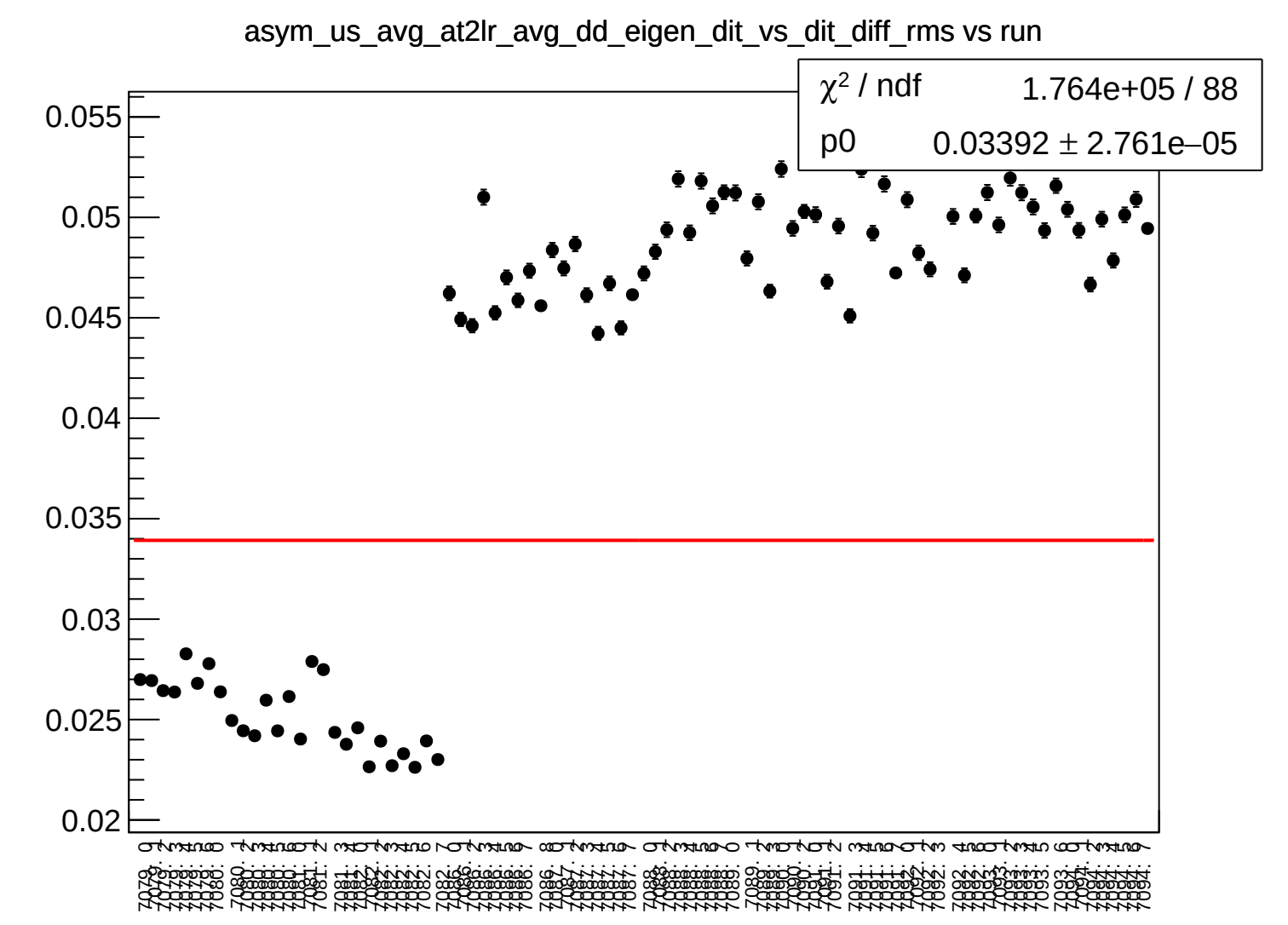

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.393e+04 / 88
p0 678 ± 0.5259
1000
900
800
700
600
500

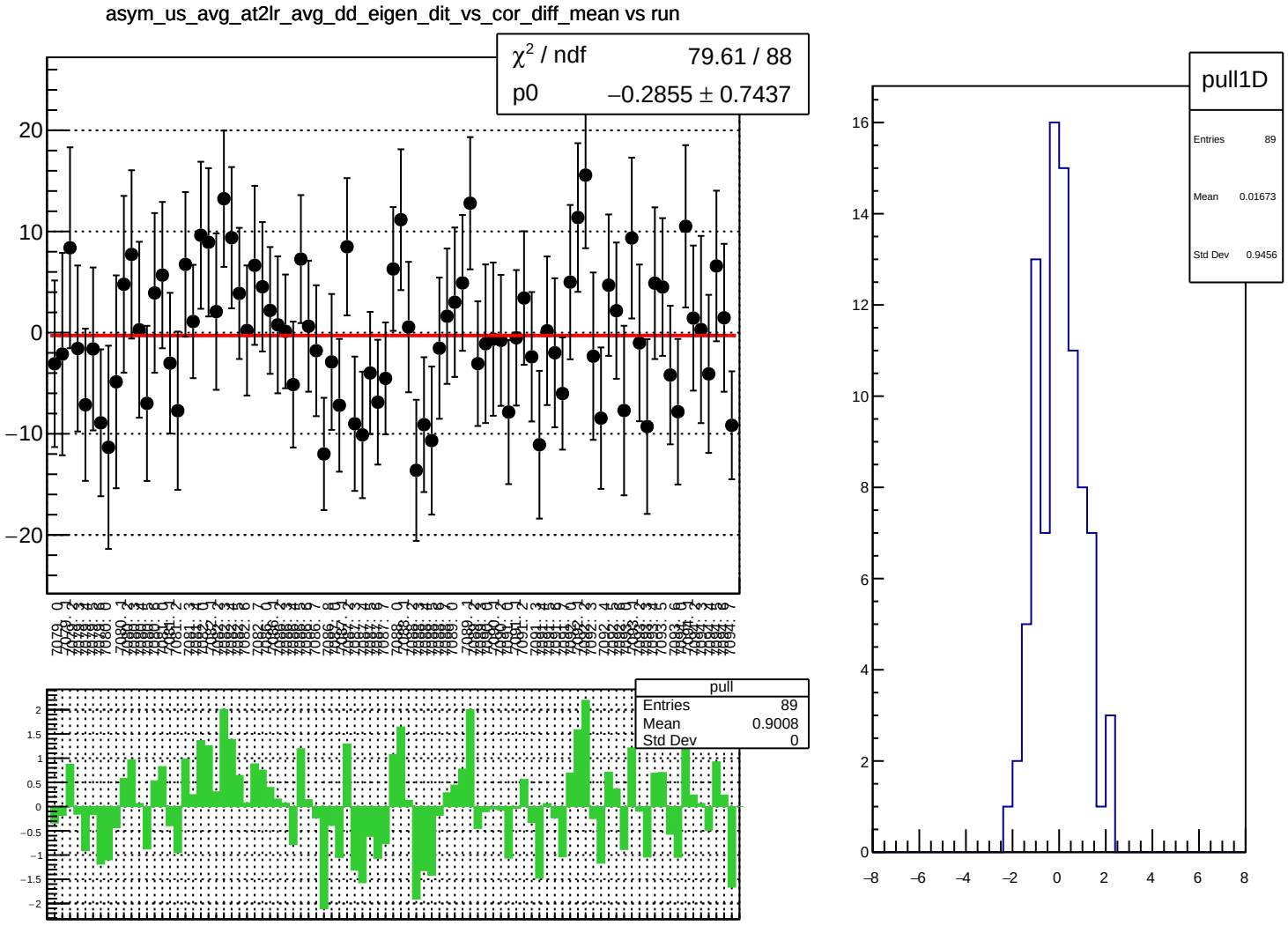

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.61 / 88
p0 −0.2856 ± 0.7437
pull
Entries 89
Mean 0.8998
Std Dev 0
pull1D
Entries 89
Mean 0.01673
Std Dev 0.9456

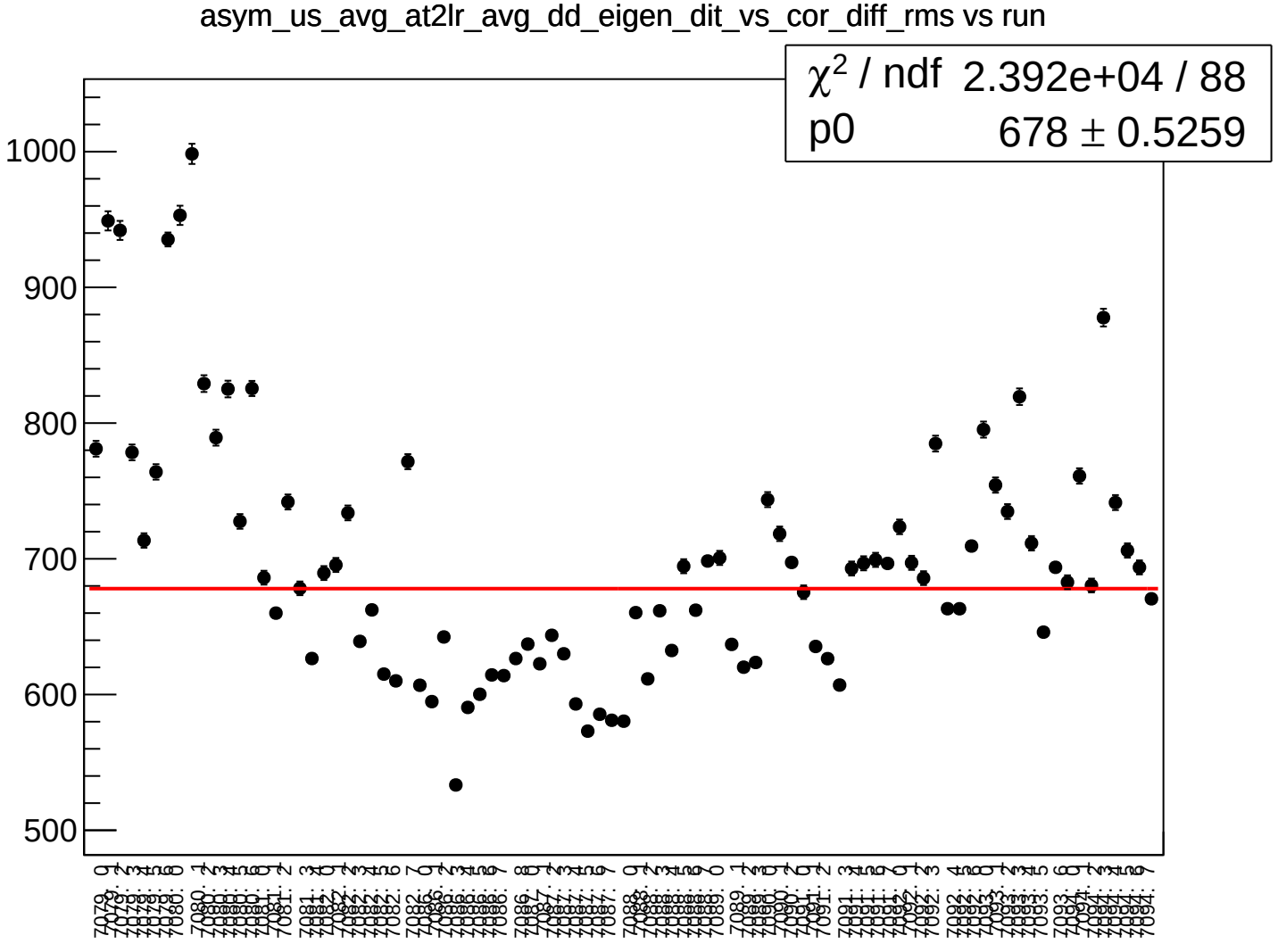

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.393e+04 / 88
p0 678 ± 0.5259
1000
900
800
700
600
500

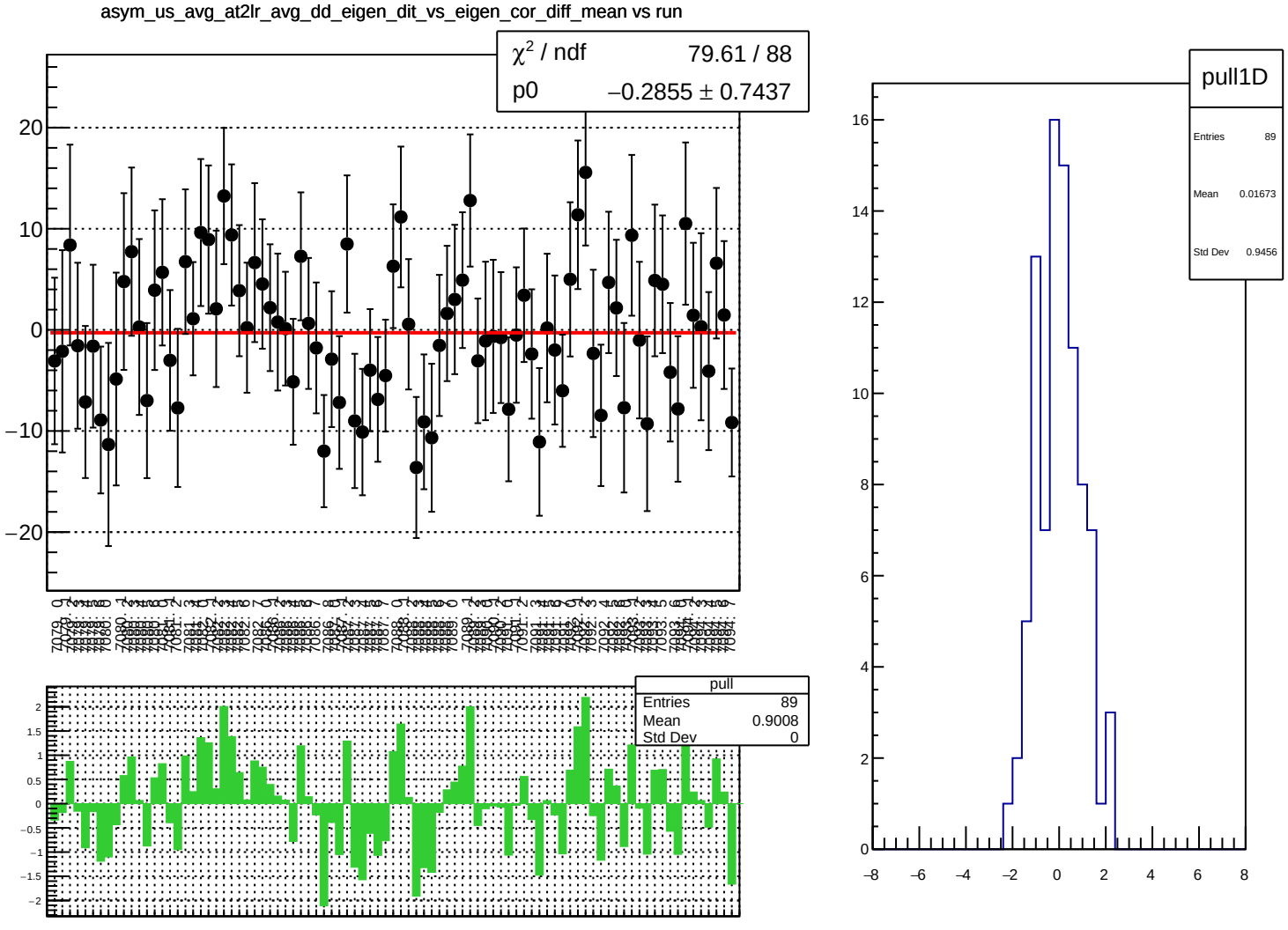

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.89 / 88
p0 3.994e−05 ± 3.904e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 1189
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

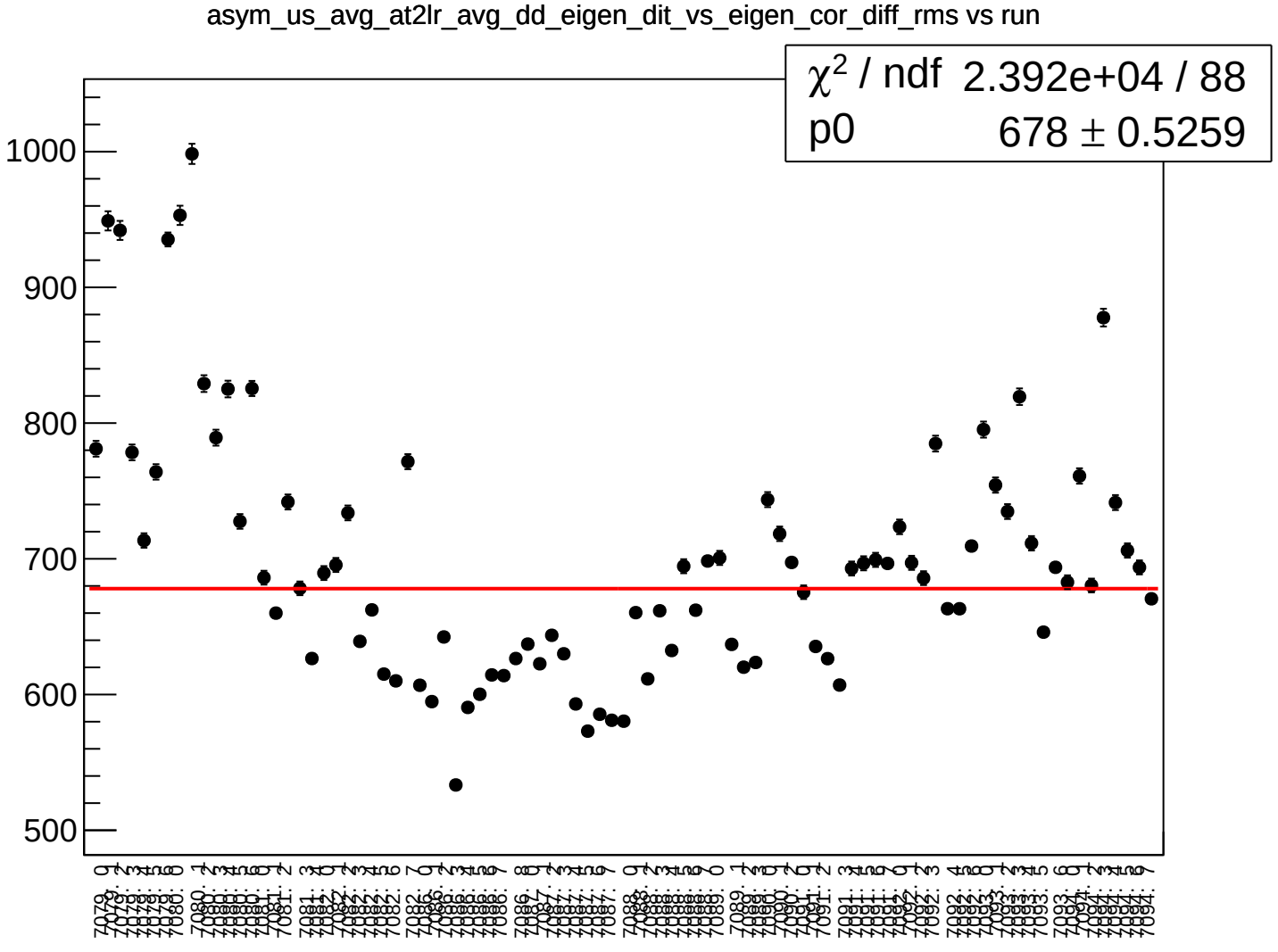

pull1D
Entries 89
Mean 0.001612
Std Dev 0.8988
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

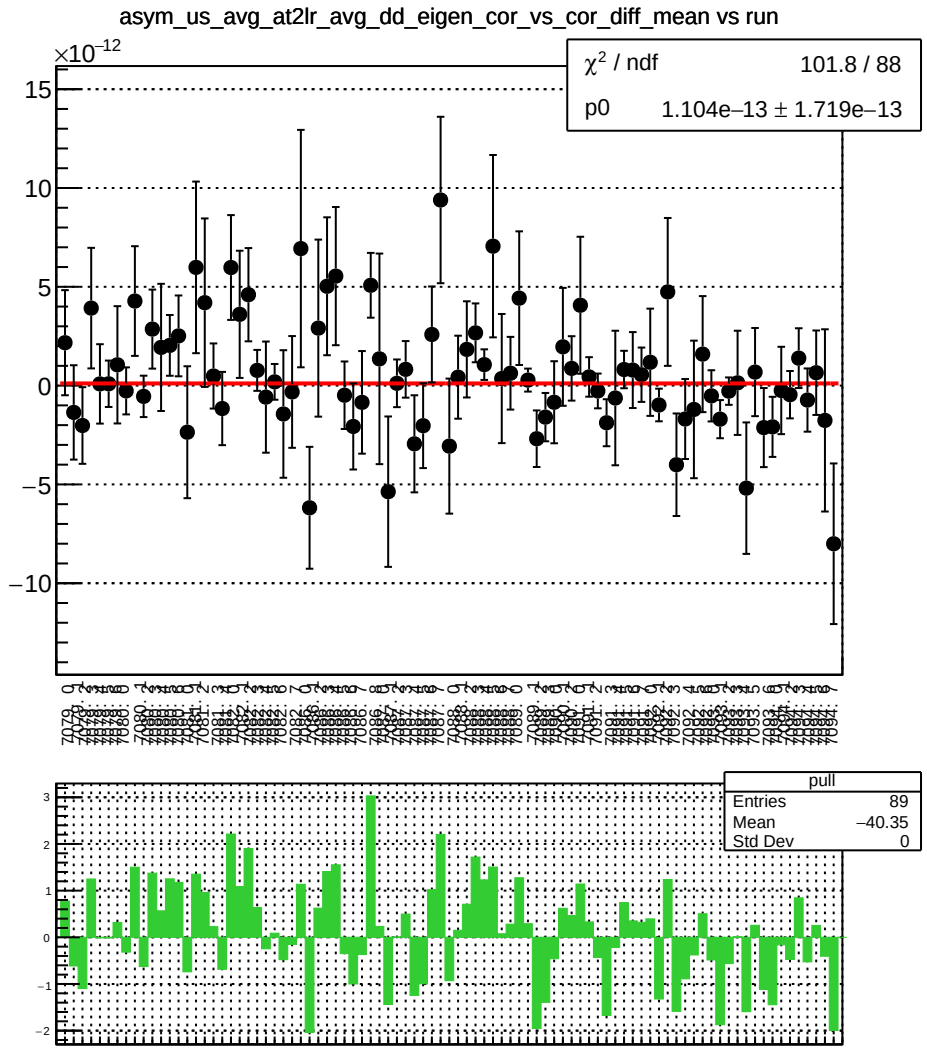

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.764e+05 / 88
p0 0.03392 ± 2.761e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

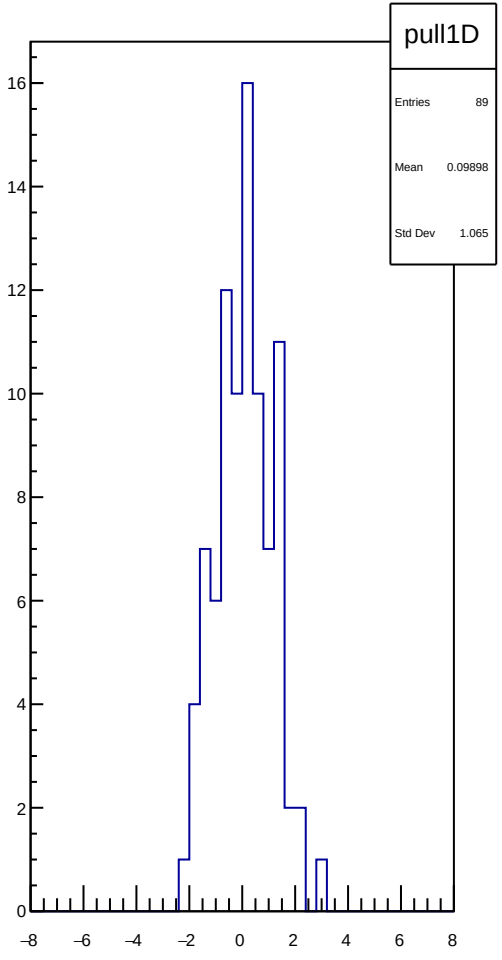

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.61 / 88
p0 −0.2855 ± 0.7437
pull
Entries 89
Mean 0.9008
Std Dev 0
pull1D
Entries 89
Mean 0.01673
Std Dev 0.9456

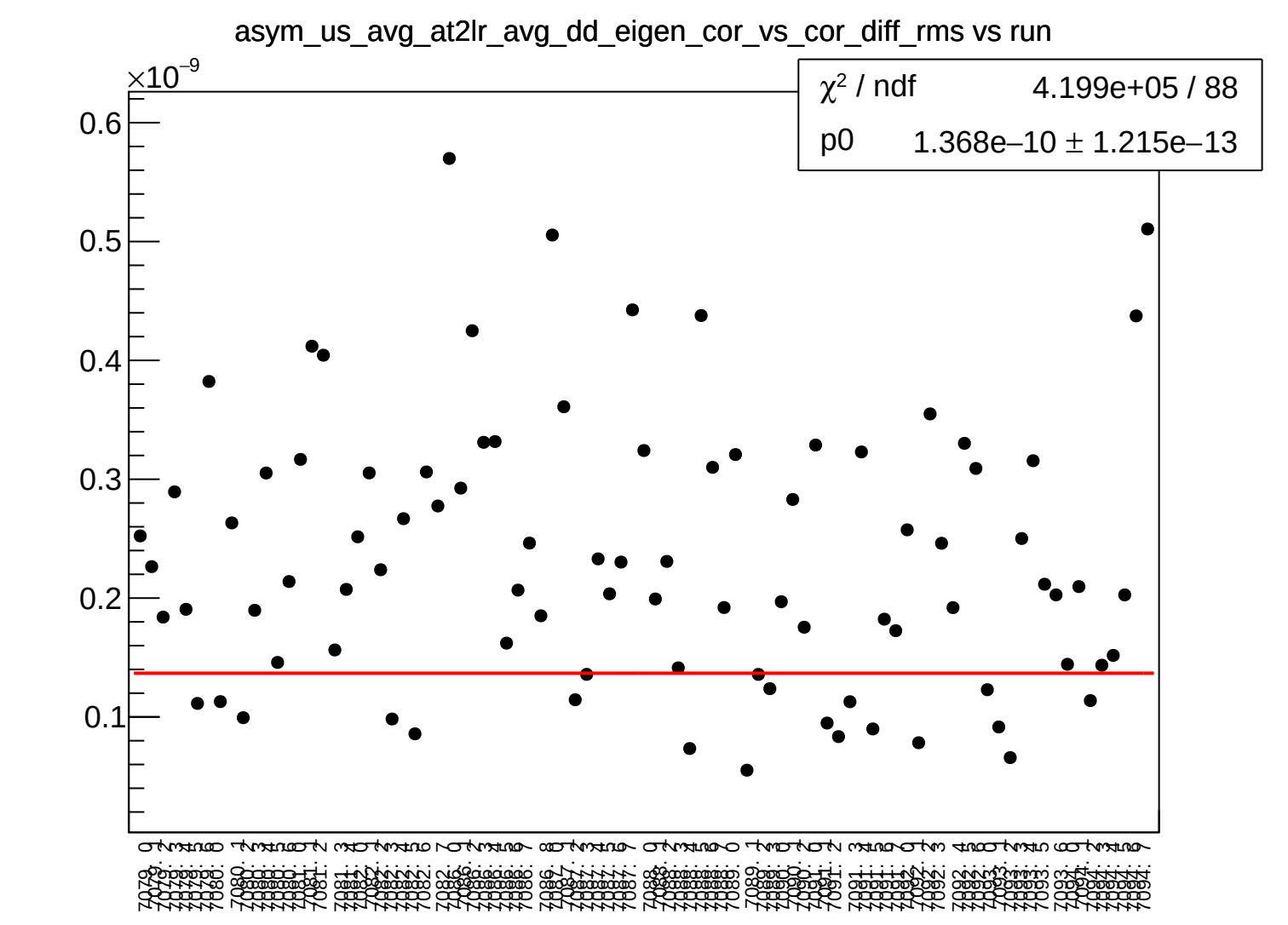

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.392e+04 / 88
p0 678 ± 0.5259
1000
900
800
700
600
500

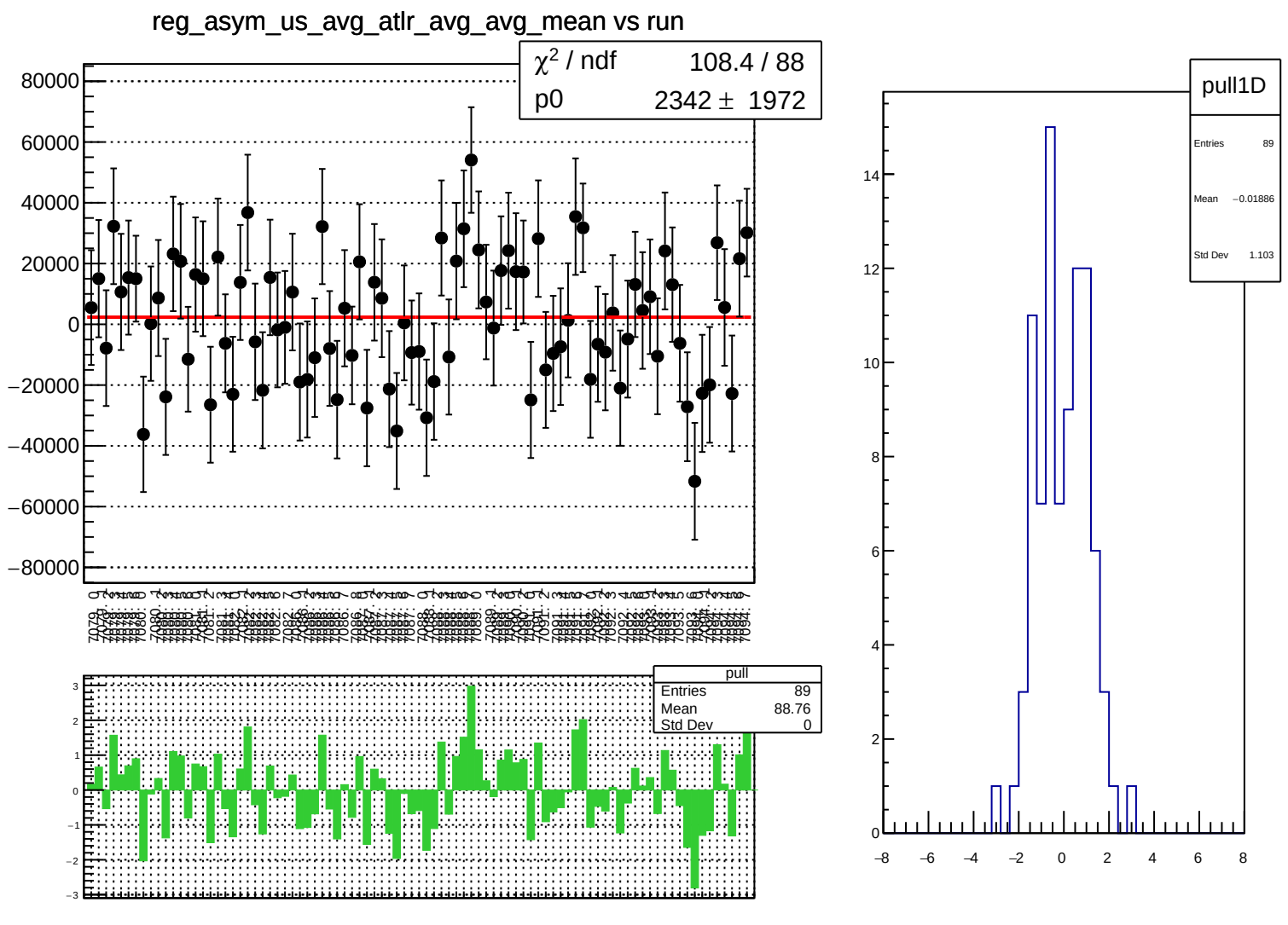

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.61 / 88
p0 −0.2855 ± 0.7437
pull
Entries 89
Mean 0.9008
Std Dev 0
pull1D
Entries 89
Mean 0.01673
Std Dev 0.9456

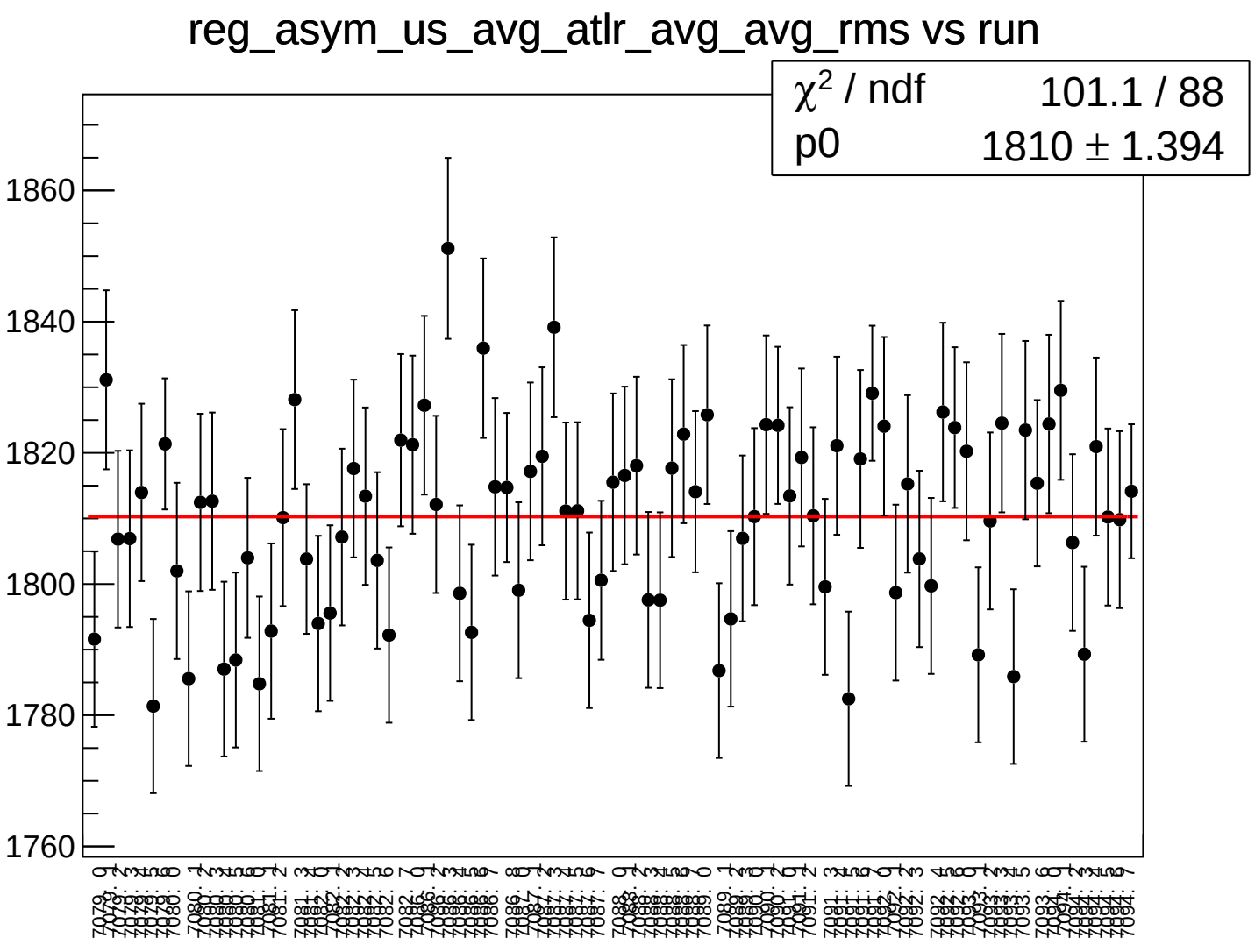

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.392e+04 / 88
p0 678 ± 0.5259
1000
900
800
700
600
500

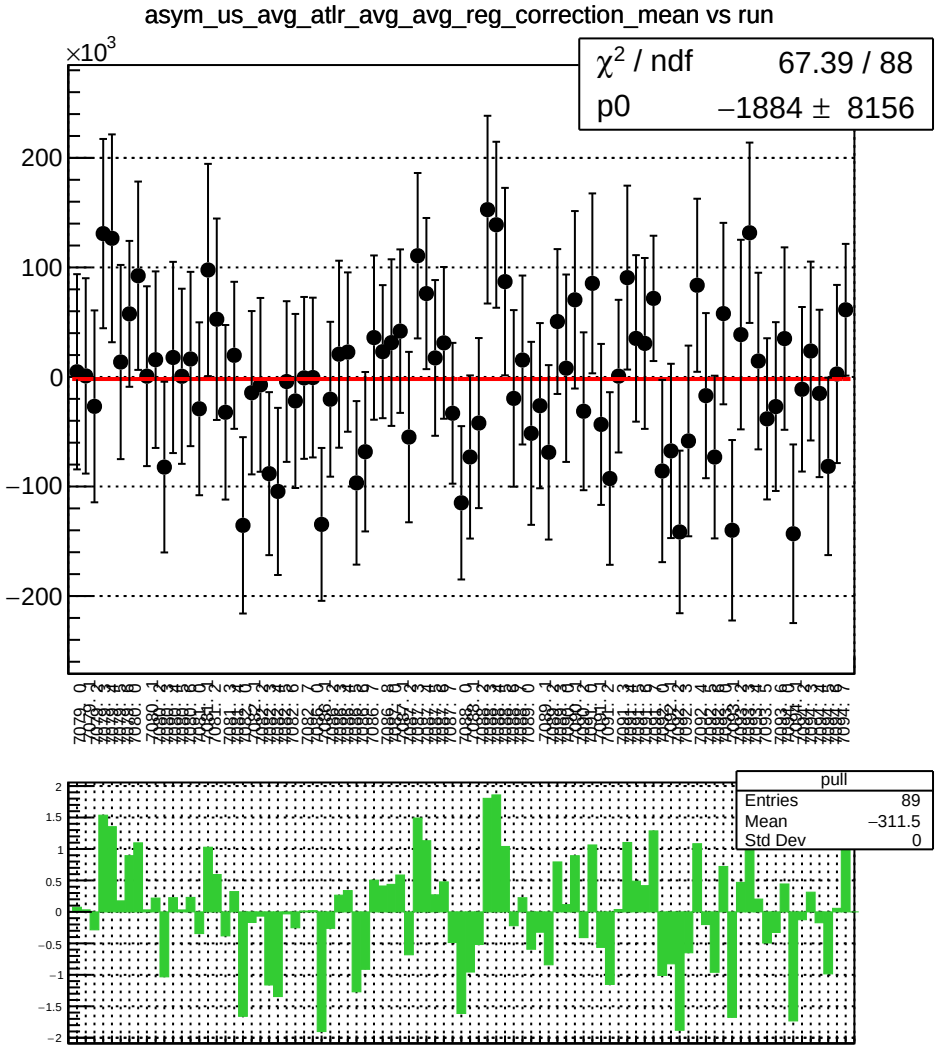

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.8 / 88
p0 1.104e−13 ± 1.719e−13
pull
Entries 89
Mean −40.35
Std Dev 0

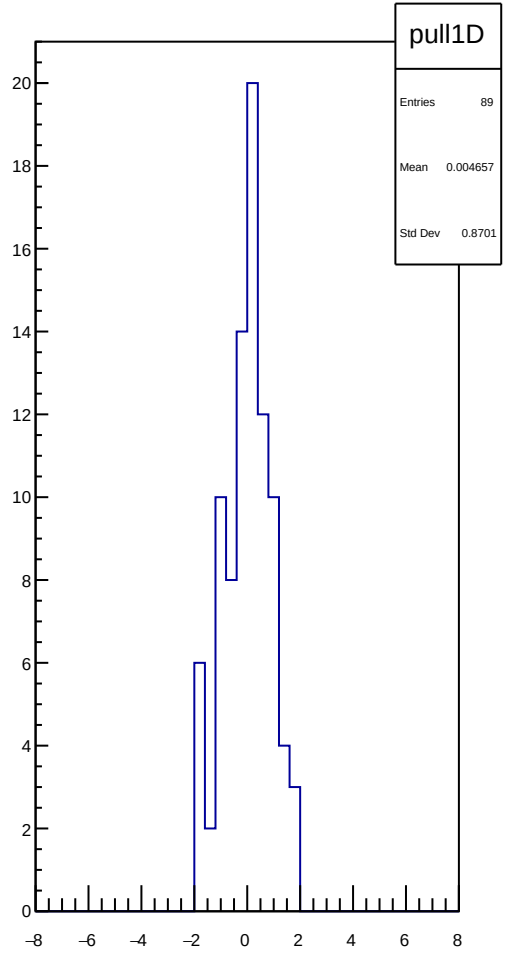

pull1D
Entries 89
Mean 0.09898
Std Dev 1.065

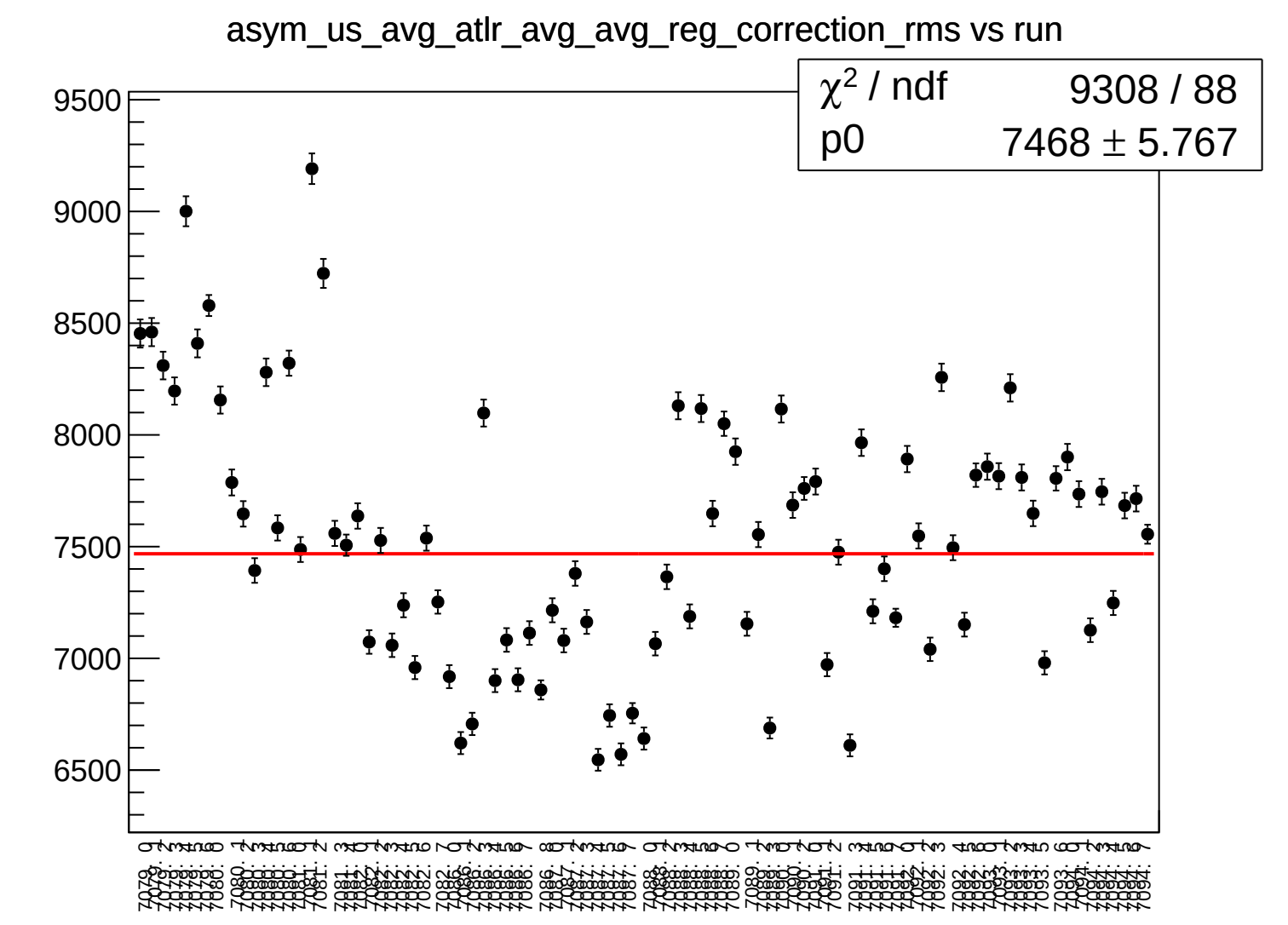

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.199e+05 / 88
p0 1.368e−10 ± 1.215e−13
0.6
0.5
0.4
0.3
0.2
0.1

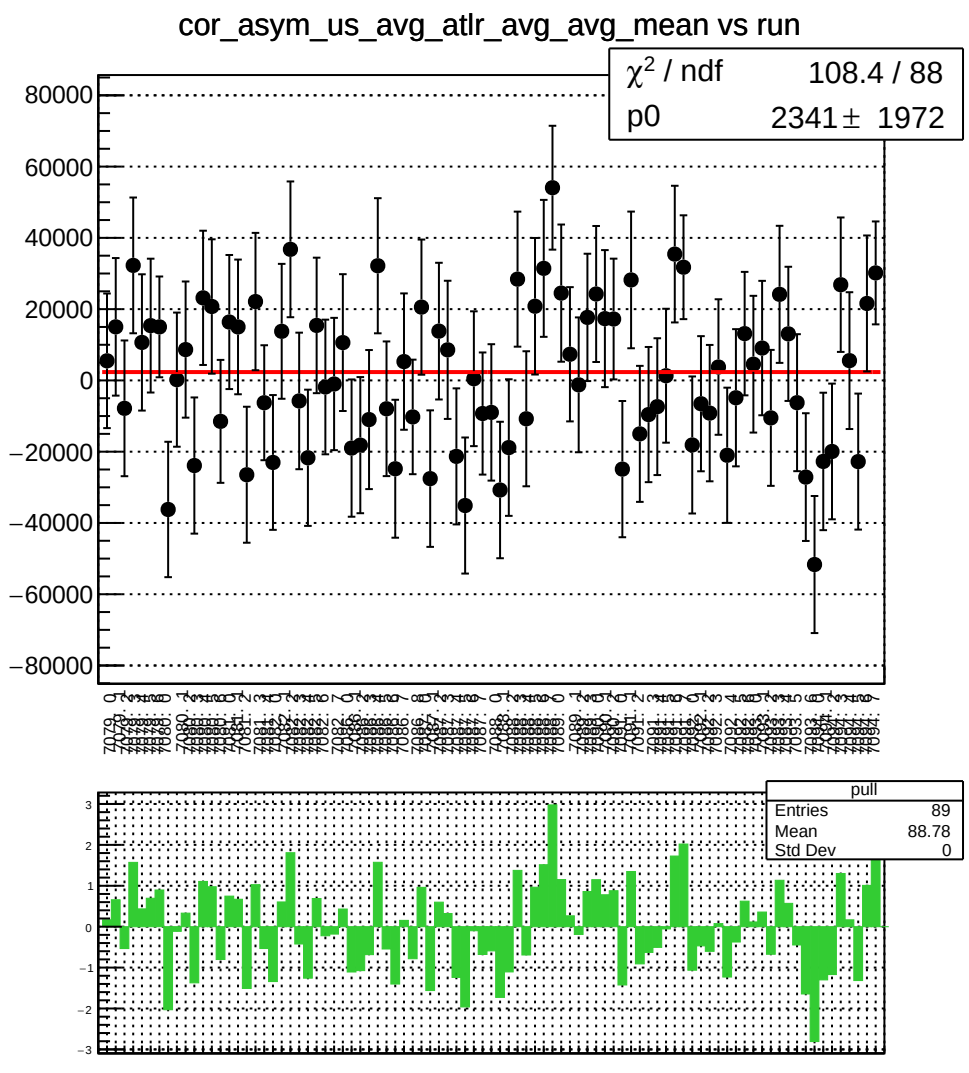

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 108.4 / 88
p0 2342 ± 1972
pull
Entries 89
Mean 88.76
Std Dev 0
pull1D
Entries 89
Mean −0.01886
Std Dev 1.103

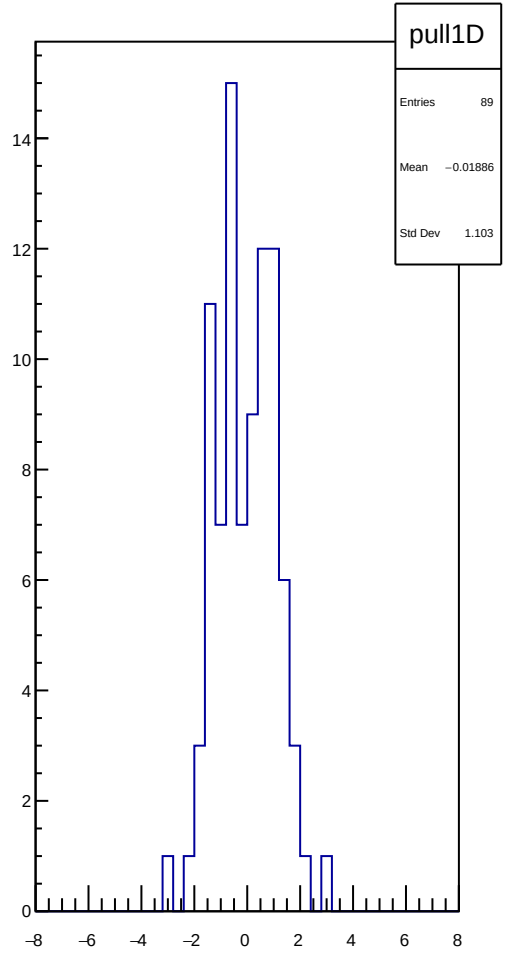

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 101.1 / 88
p0 1810 ± 1.394
1860
1840
1820
1800
1780
1760

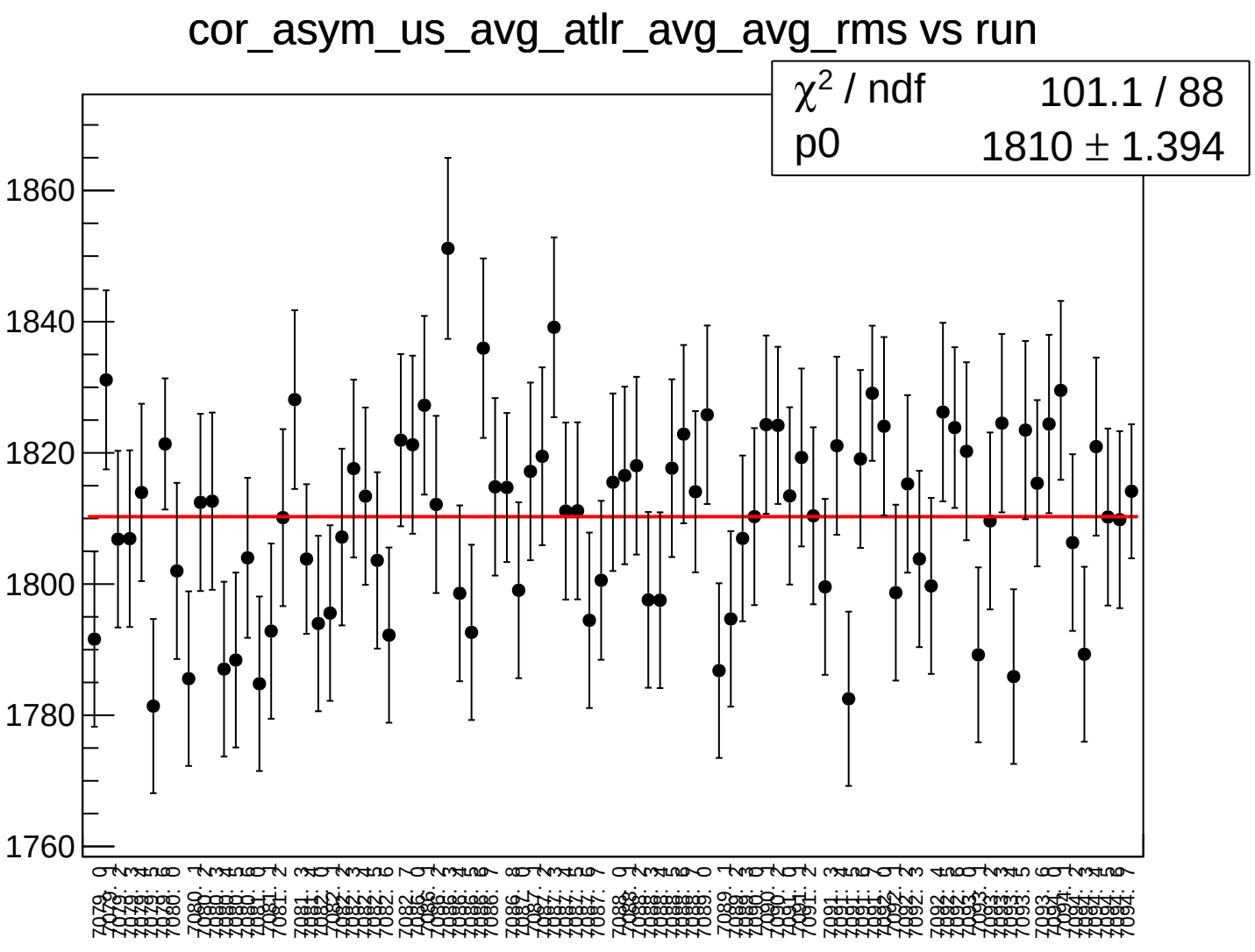

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 67.39 / 88
p0 −1884 ± 8156
200
100
0
−100
−200
pull
Entries 89
Mean −311.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

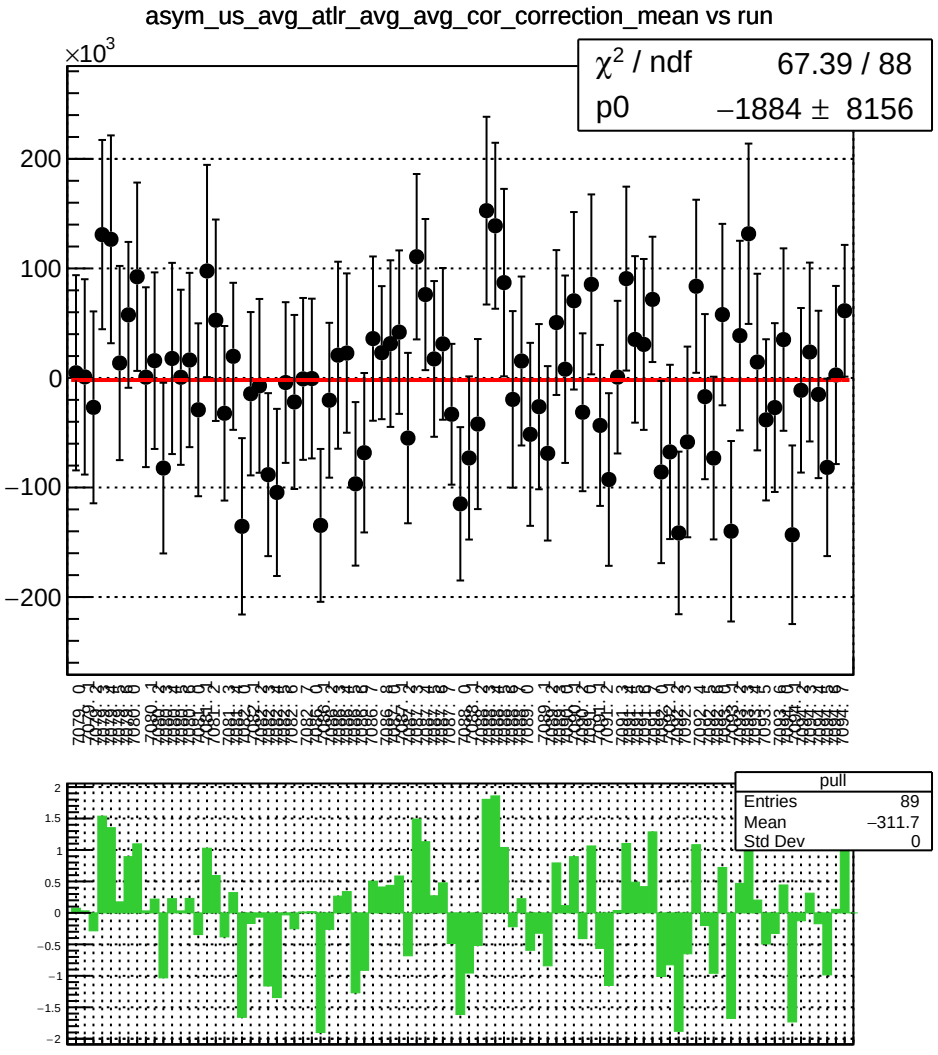

pull1D
Entries 89
Mean 0.004657
Std Dev 0.8701
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

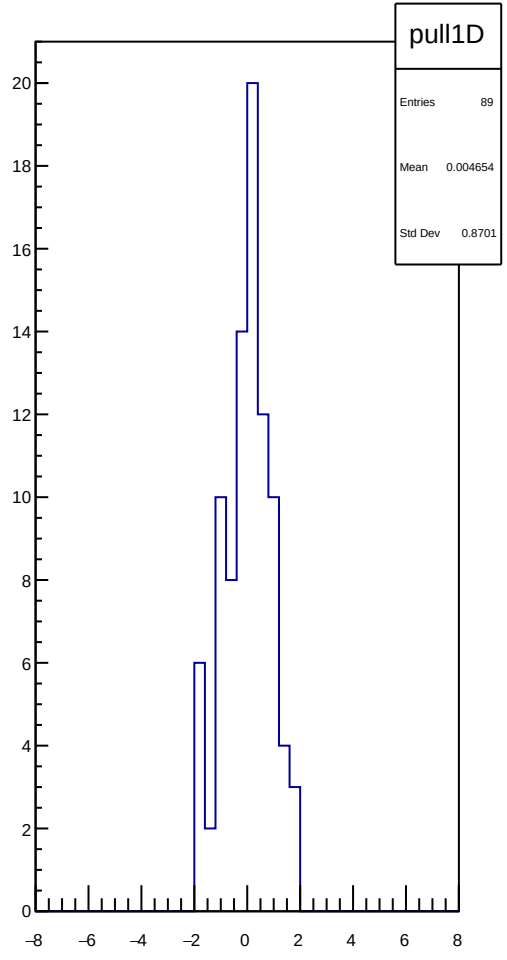

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 9308 / 88
p0 7468 ± 5.767
9500
9000
8500
8000
7500
7000
6500

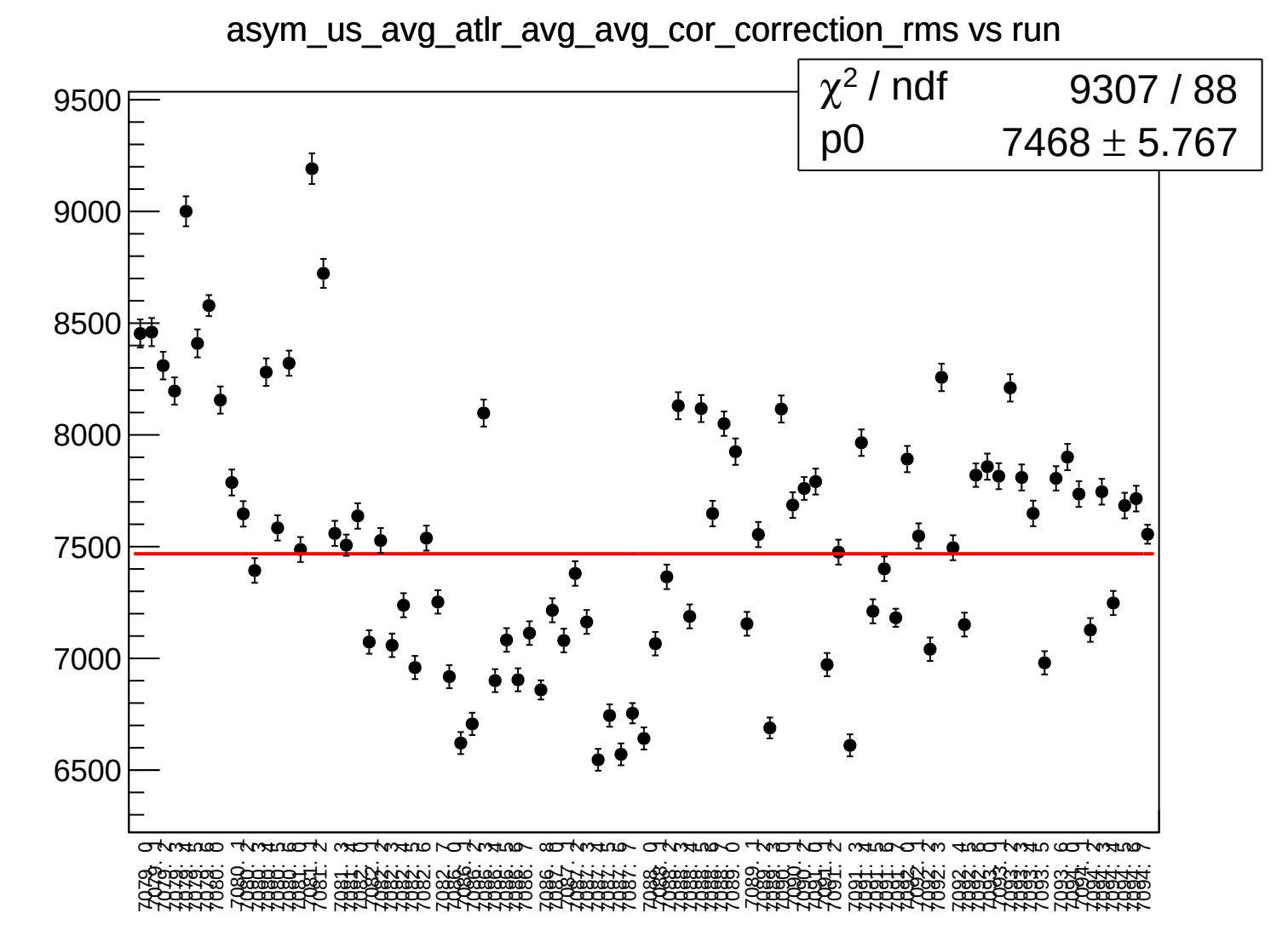

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 108.4 / 88
p0 2341 ± 1972
pull
Entries 89
Mean 88.78
Std Dev 0

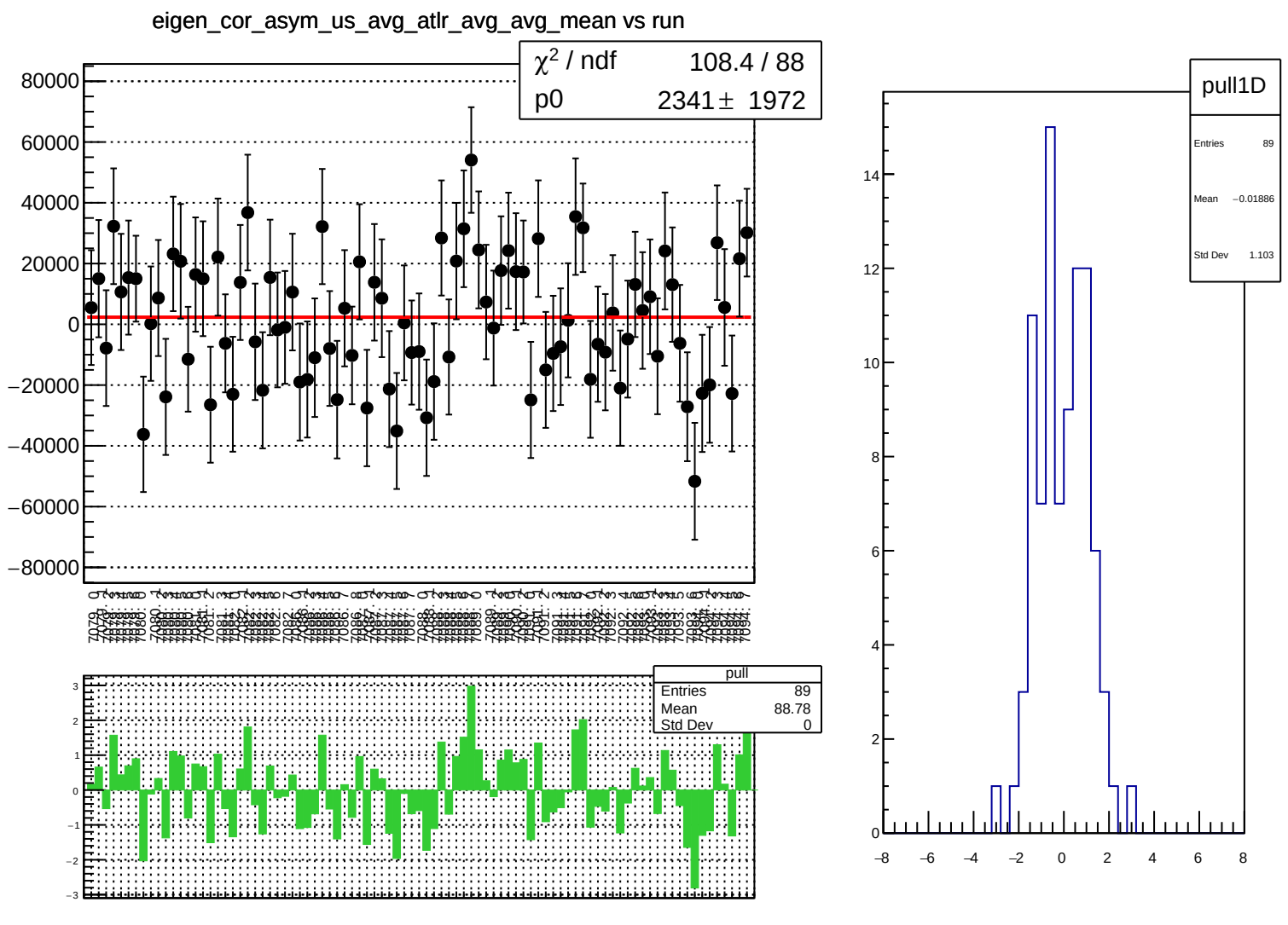

pull1D
Entries 89
Mean −0.01886
Std Dev 1.103

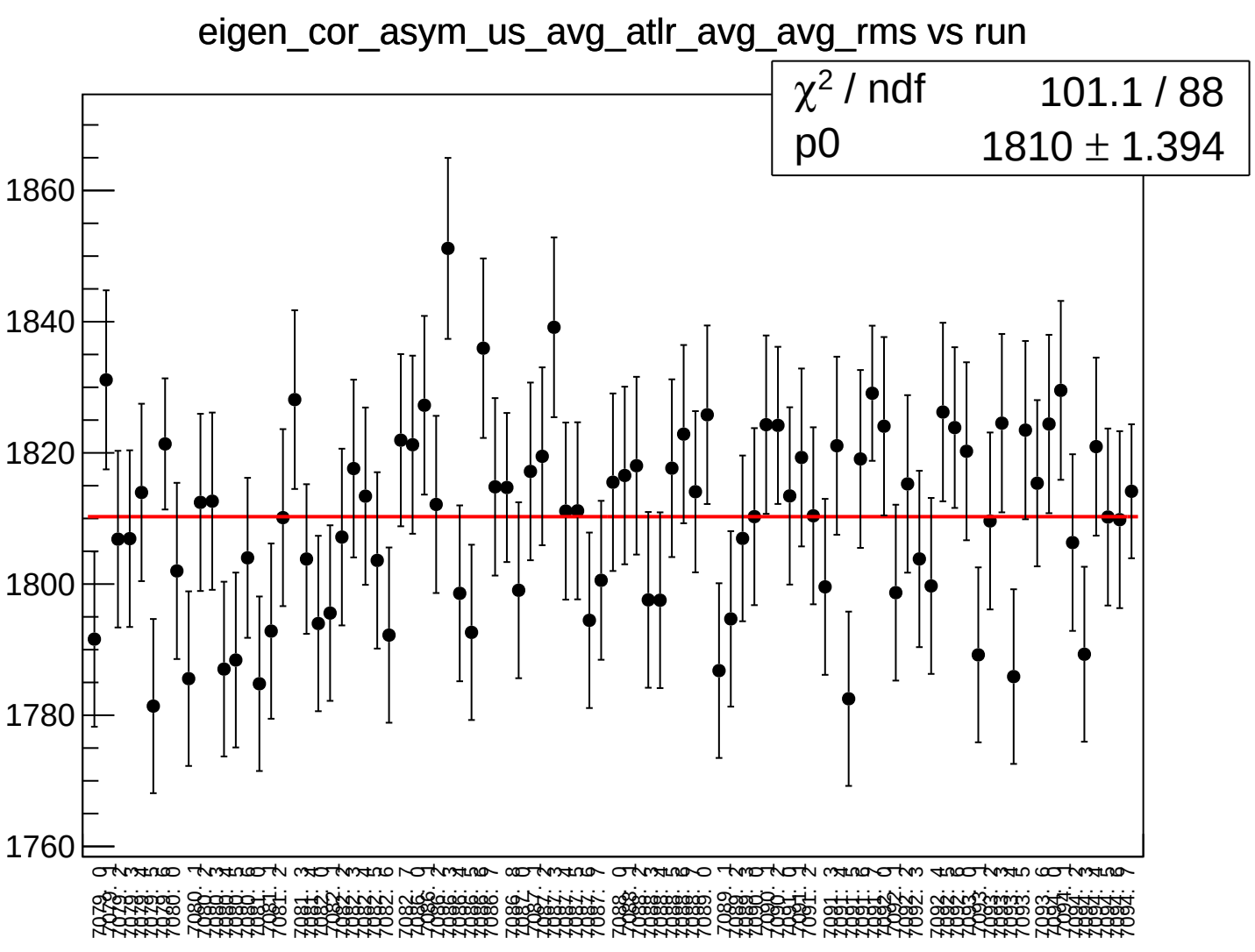

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 101.1 / 88
p0 1810 ± 1.394
1860
1840
1820
1800
1780
1760

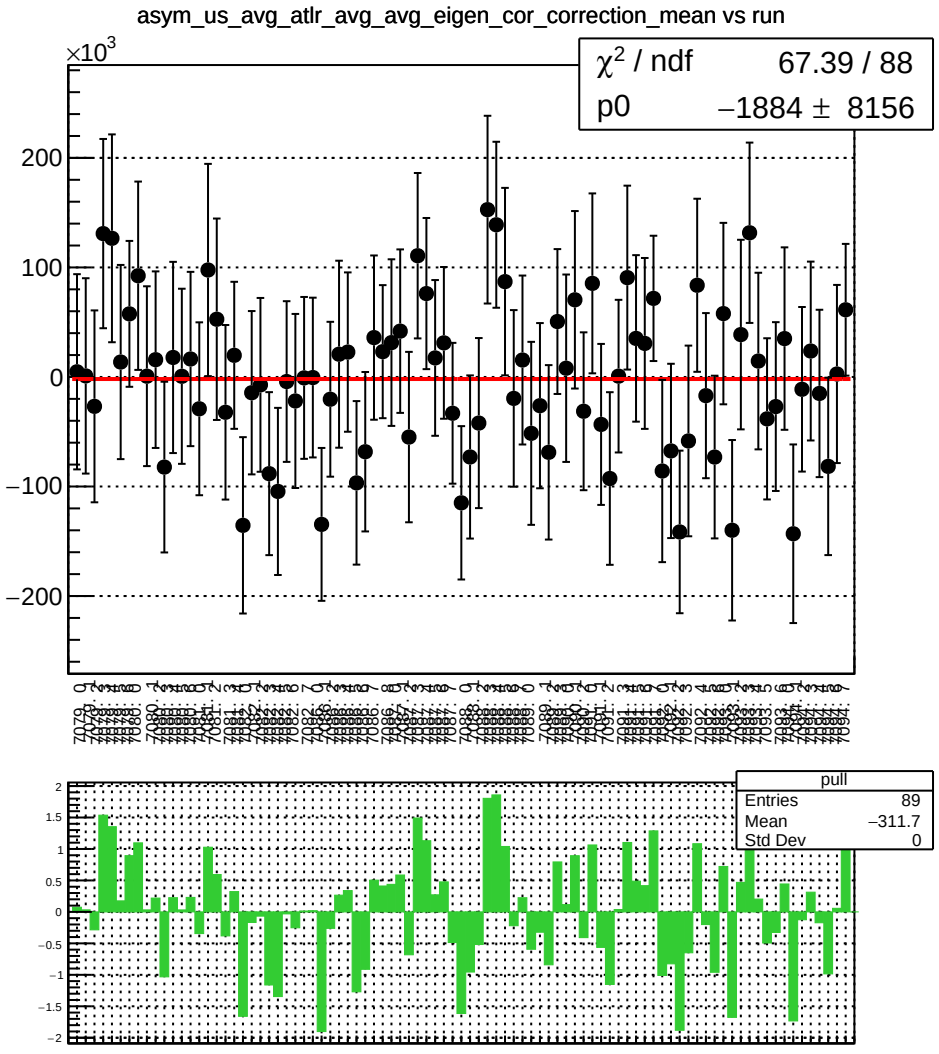

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 67.39 / 88
p0 −1884 ± 8156
200
100
0
−100
−200
pull
Entries 89
Mean −311.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

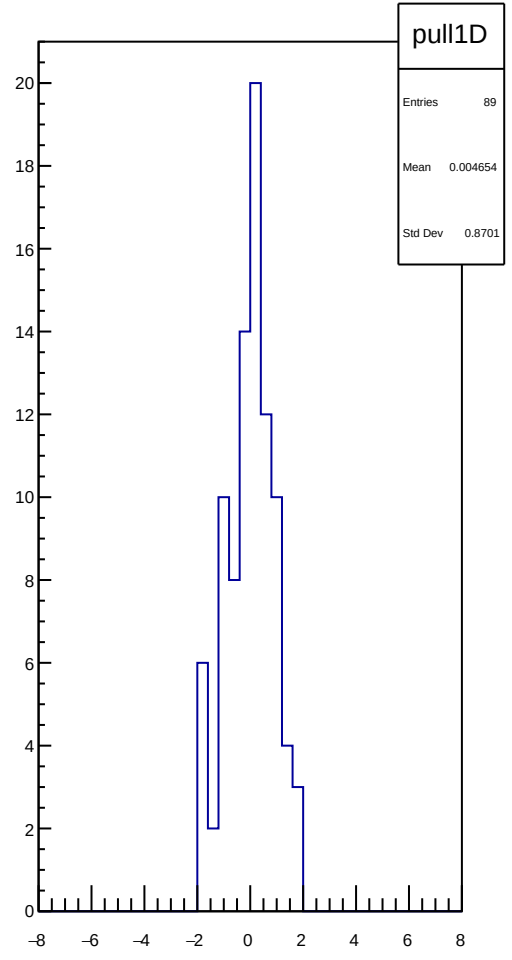

pull1D
Entries 89
Mean 0.004654
Std Dev 0.8701
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

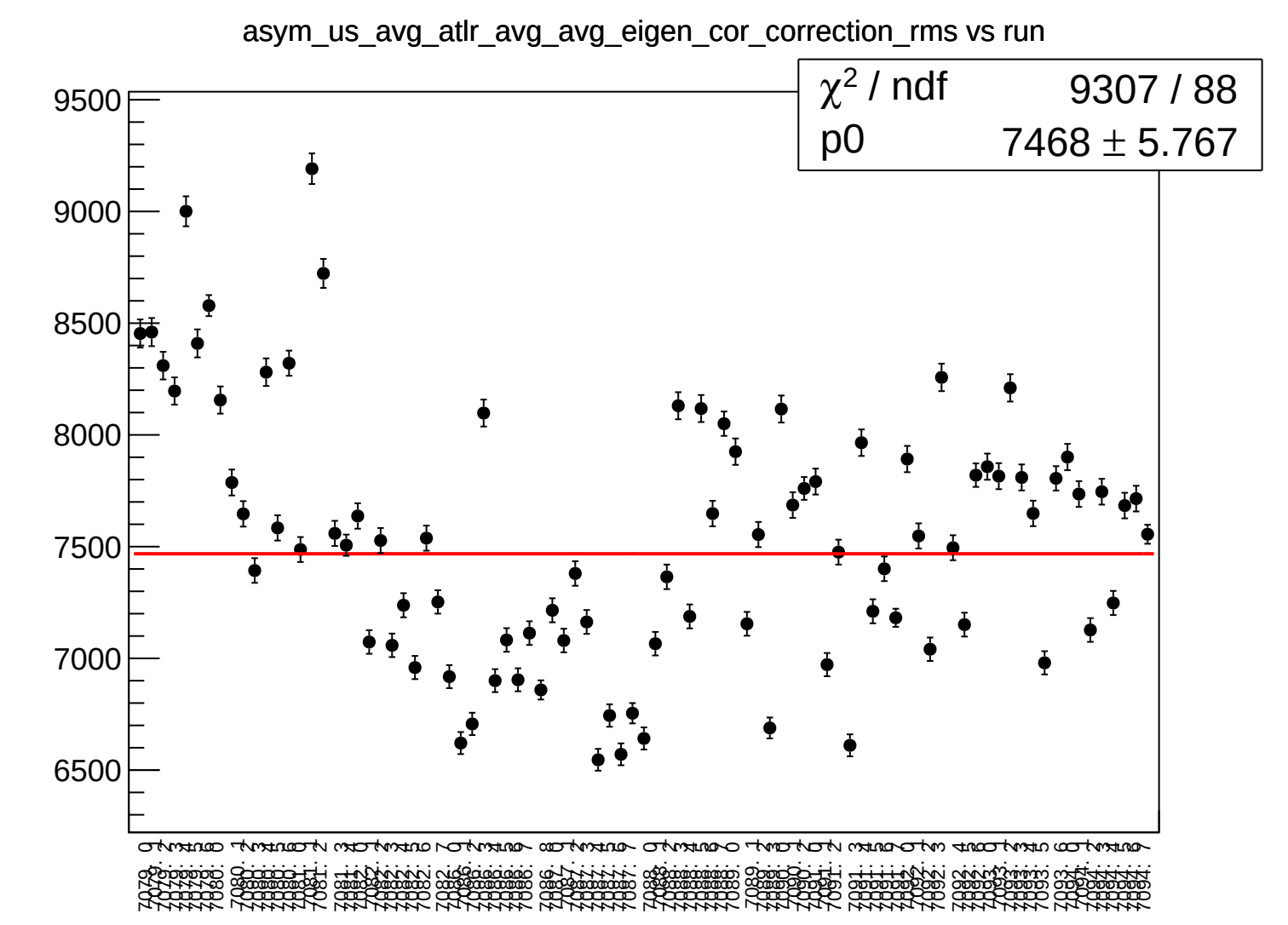

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 9307 / 88
p0 7468 ± 5.767
9500
9000
8500
8000
7500
7000
6500

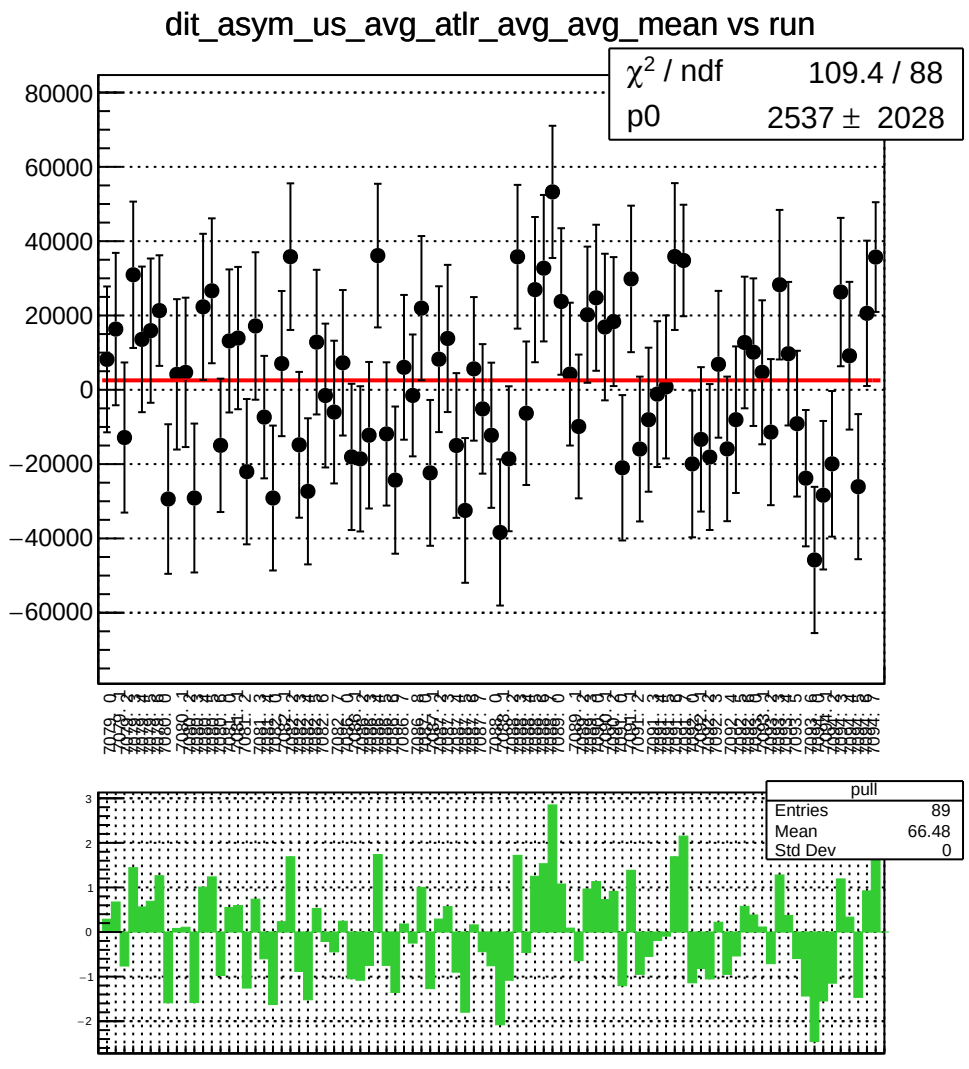

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 108.4 / 88
p0 2341 ± 1972
pull
Entries 89
Mean 88.78
Std Dev 0
pull1D
Entries 89
Mean −0.01886
Std Dev 1.103

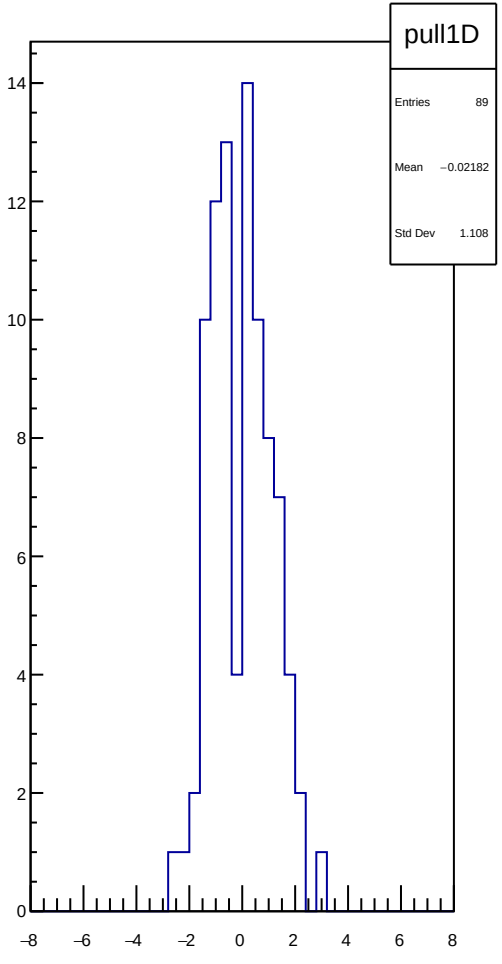

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 101.1 / 88
p0 1810 ± 1.394
1860
1840
1820
1800
1780
1760

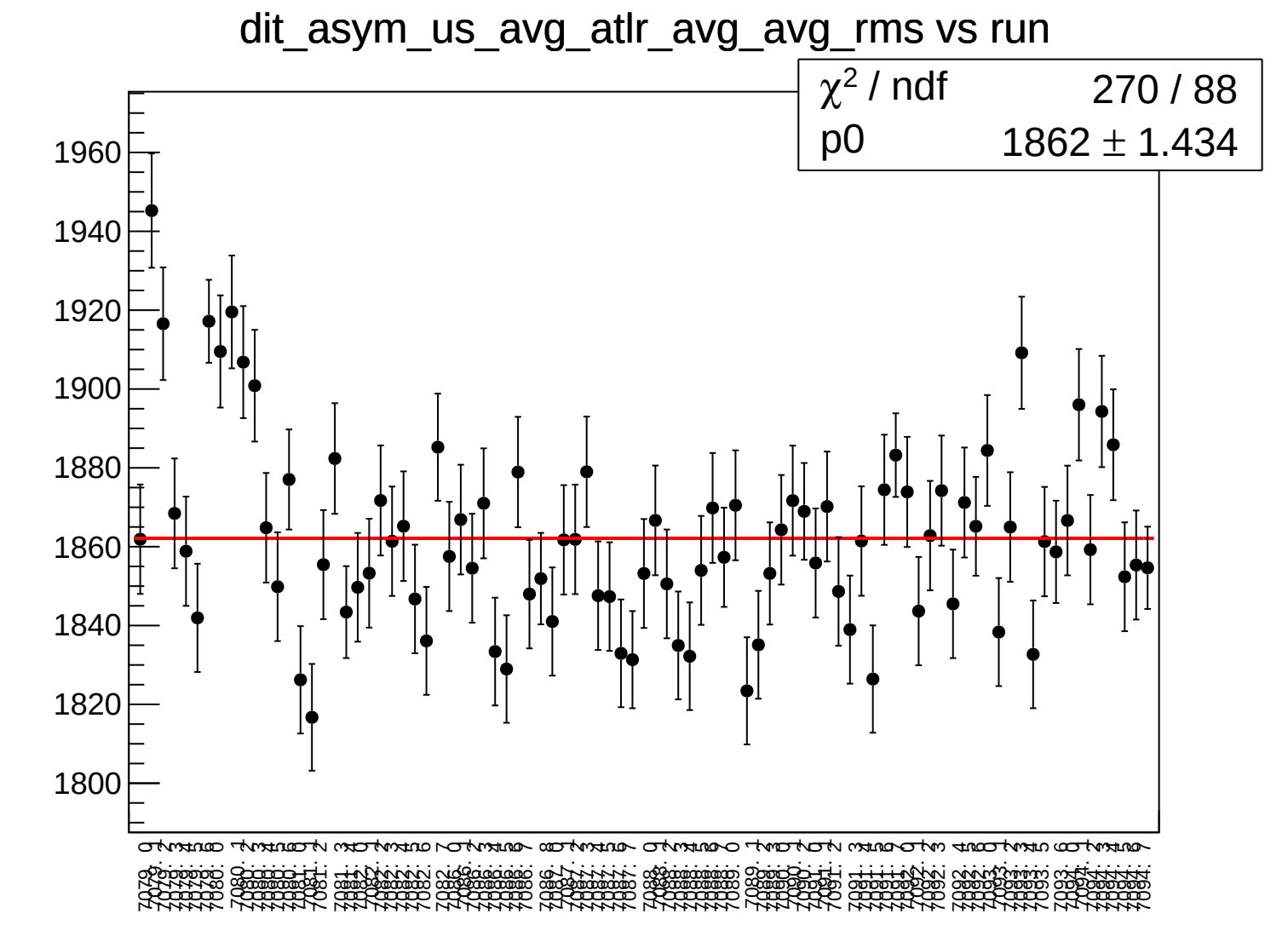

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 67.39 / 88
p0 −1884 ± 8156
200
100
0
−100
−200
pull
Entries 89
Mean −311.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

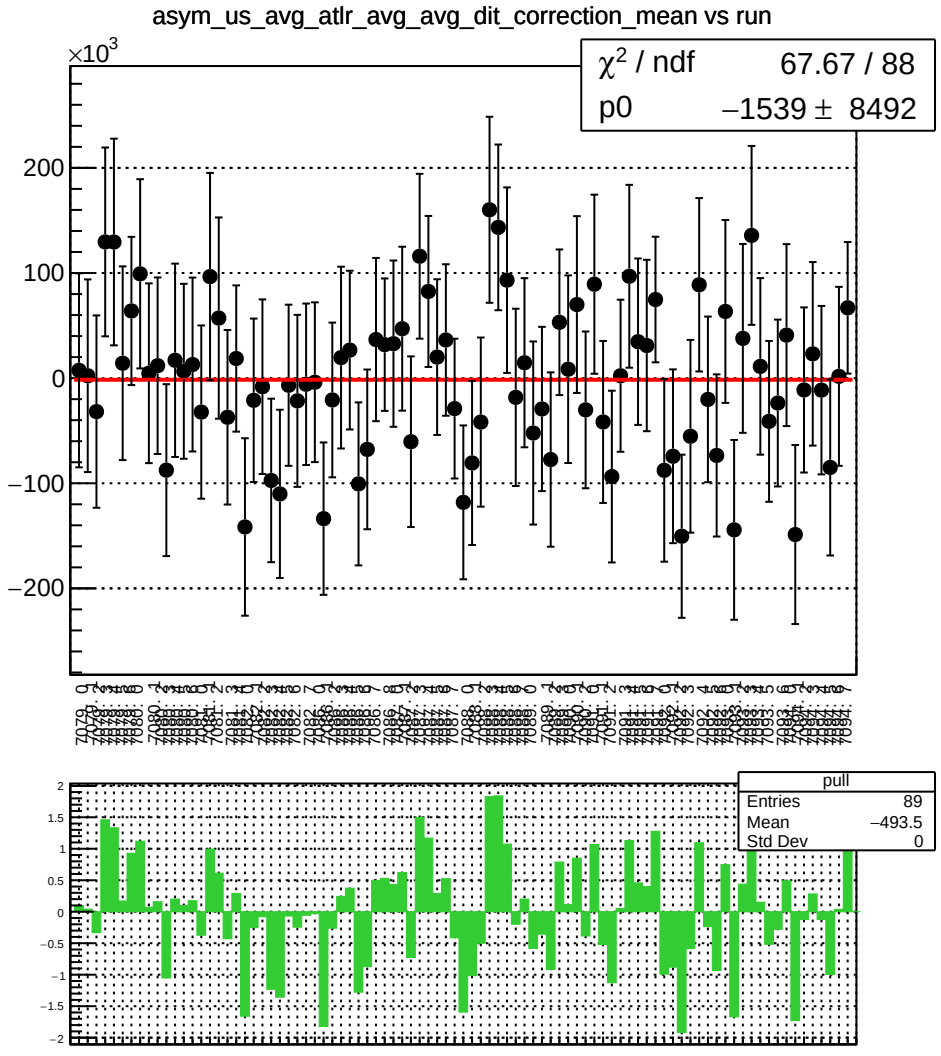

pull1D
Entries 89
Mean 0.004654
Std Dev 0.8701
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

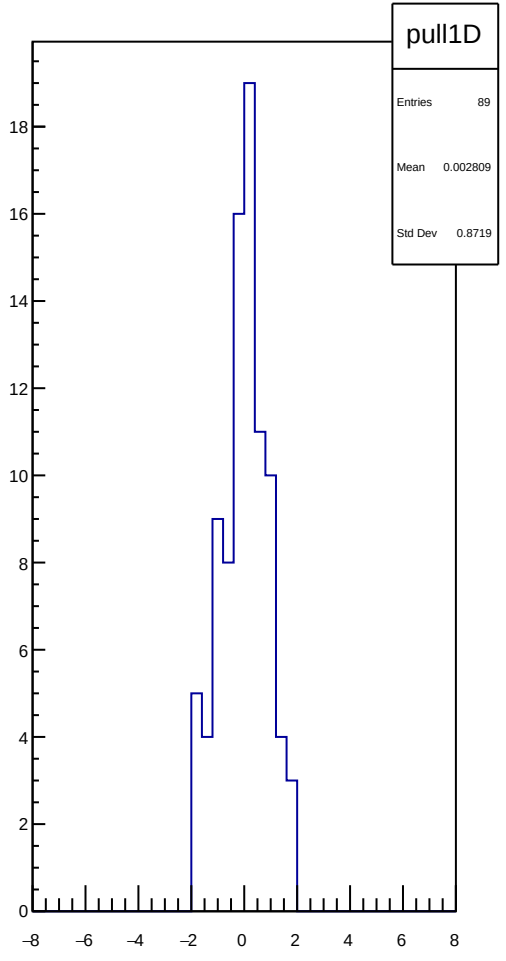

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 9307 / 88
p0 7468 ± 5.767
9500
9000
8500
8000
7500
7000
6500

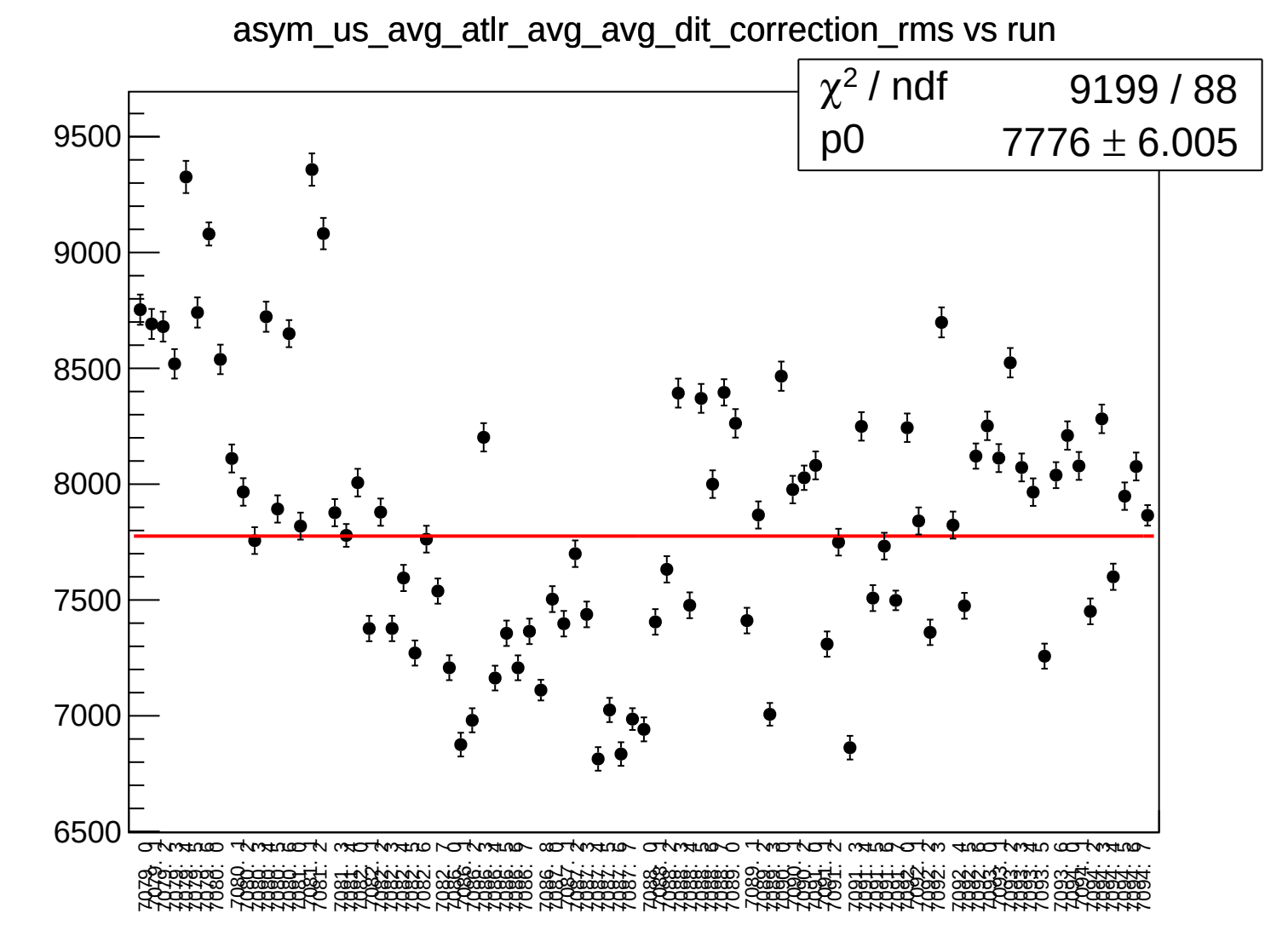

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 109.4 / 88
p0 2537 ± 2028
pull
Entries 89
Mean 66.48
Std Dev 0

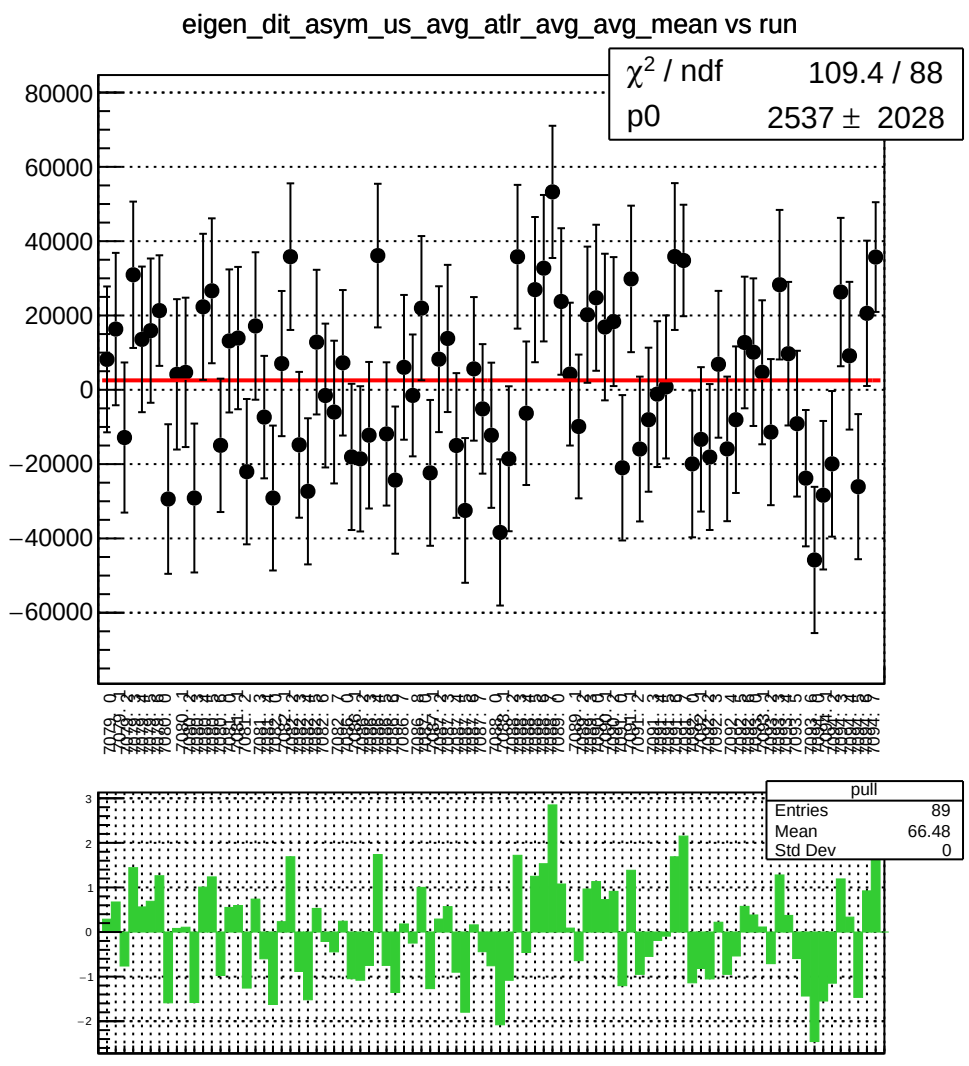

pull1D
Entries 89
Mean −0.02182
Std Dev 1.108

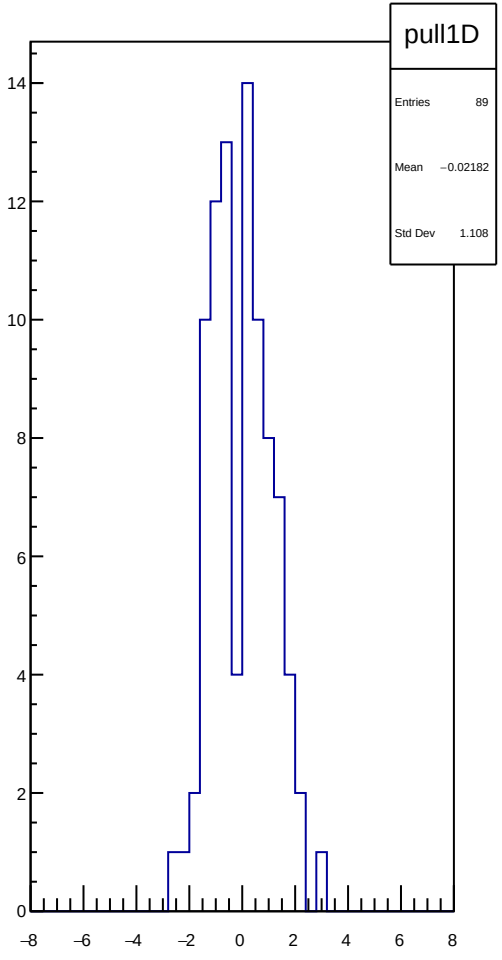

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 270 / 88
p0 1862 ± 1.434
1960
1940
1920
1900
1880
1860
1840
1820
1800

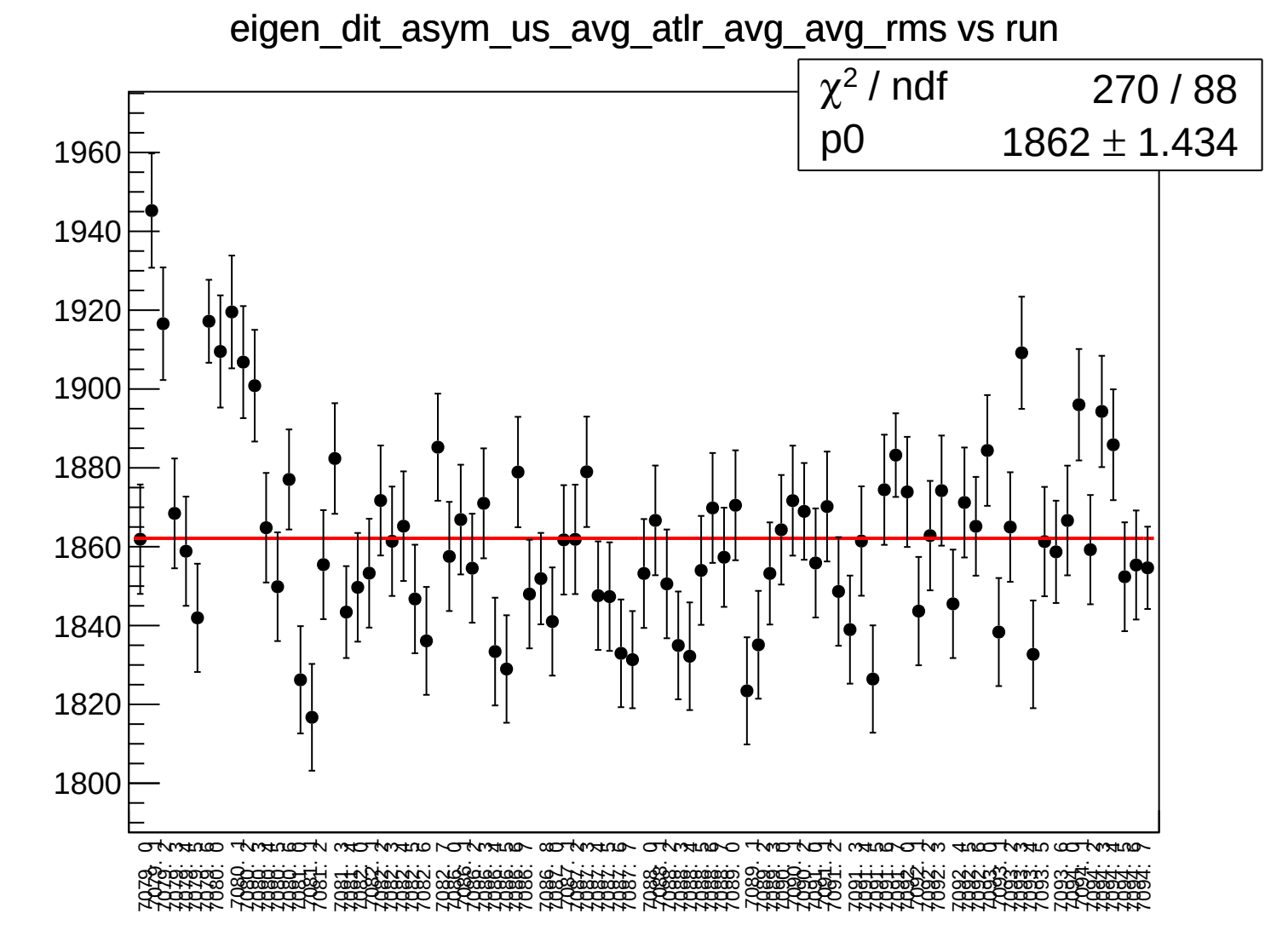

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 67.67 / 88
p0 −1539 ± 8492
200
100
0
−100
−200
pull
Entries 89
Mean −493.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

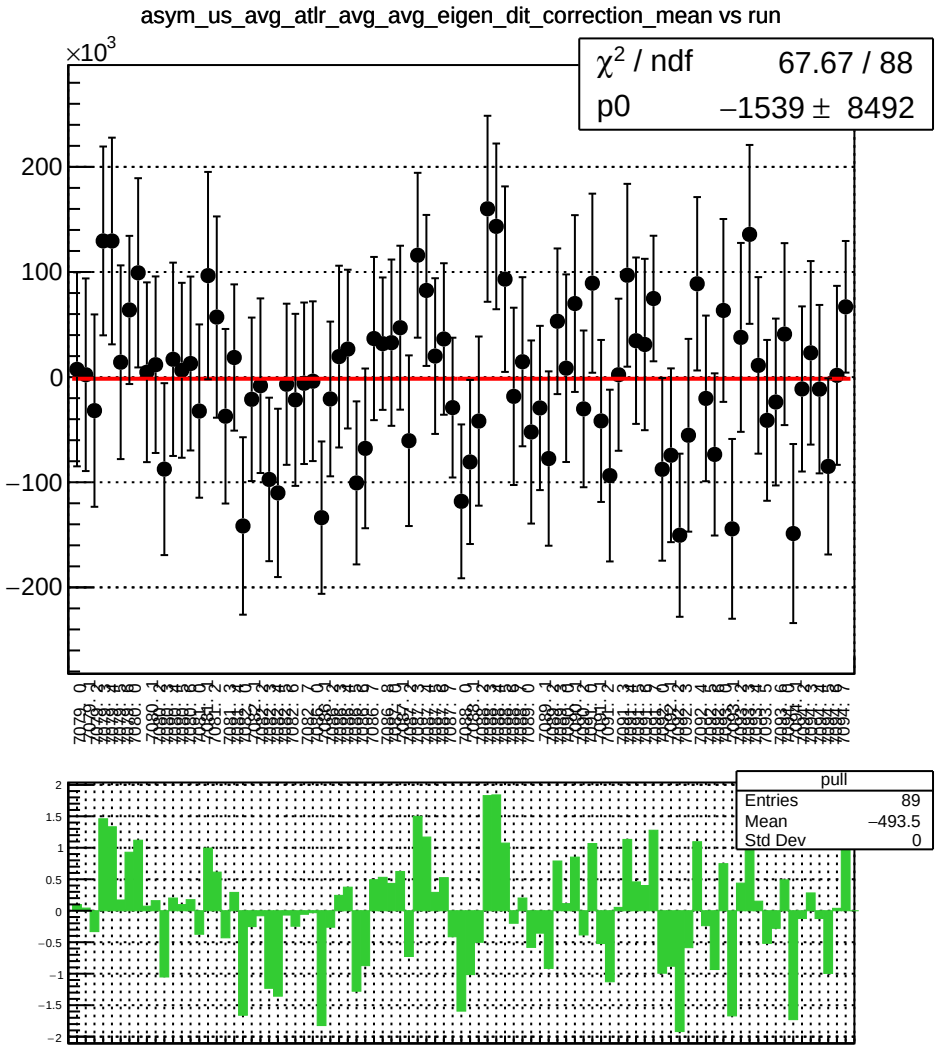

pull1D
Entries 89
Mean 0.002809
Std Dev 0.8719
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

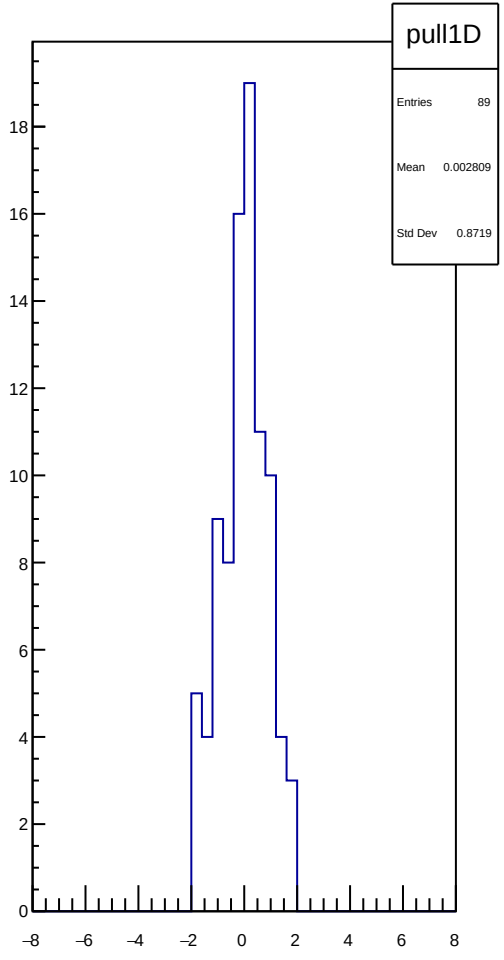

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 9199 / 88
p0 7776 ± 6.005
9500
9000
8500
8000
7500
7000
6500

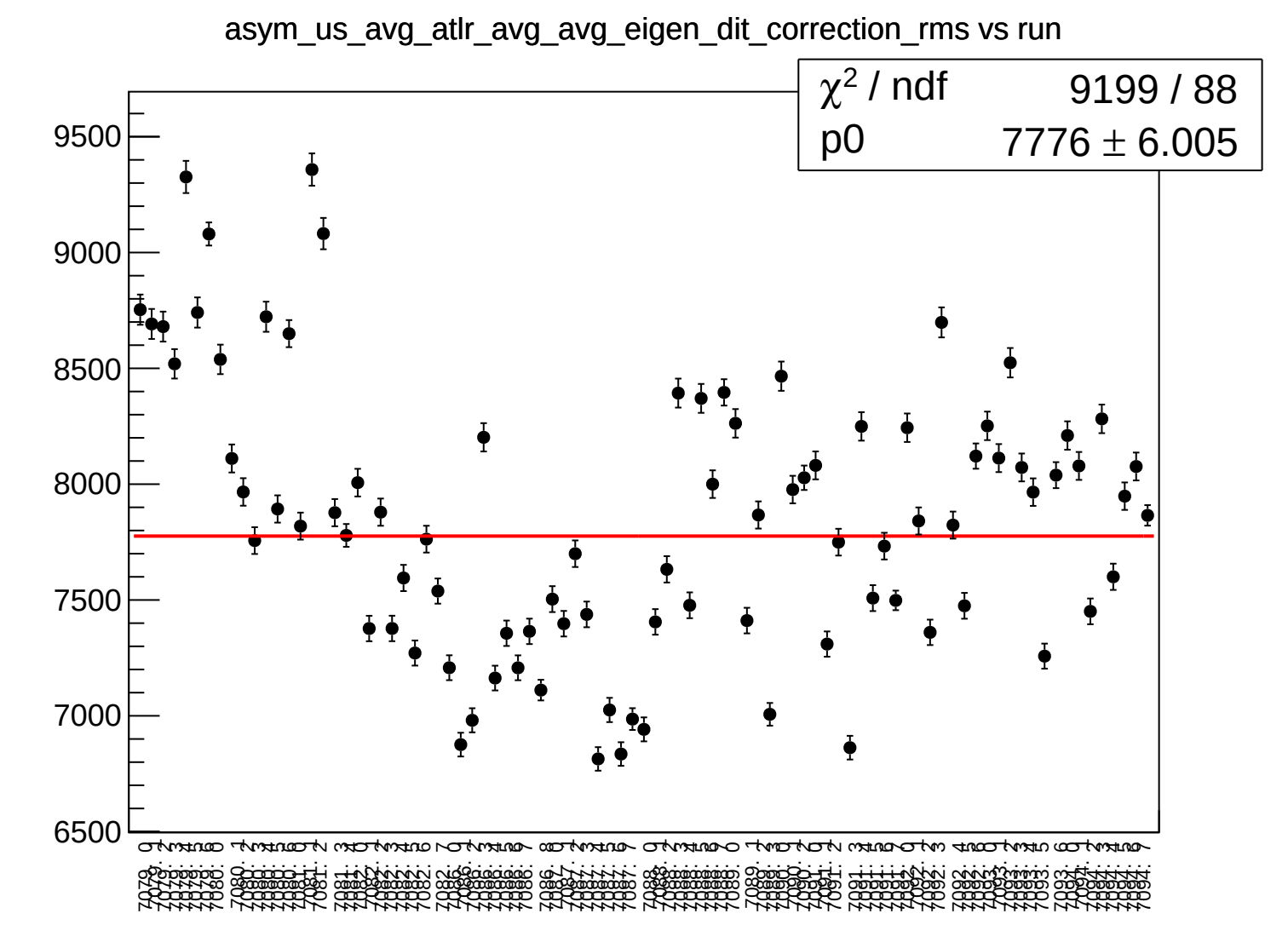

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 109.4 / 88
p0 2537 ± 2028
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 66.48
Std Dev 0
3
2
1
0
−1
−2

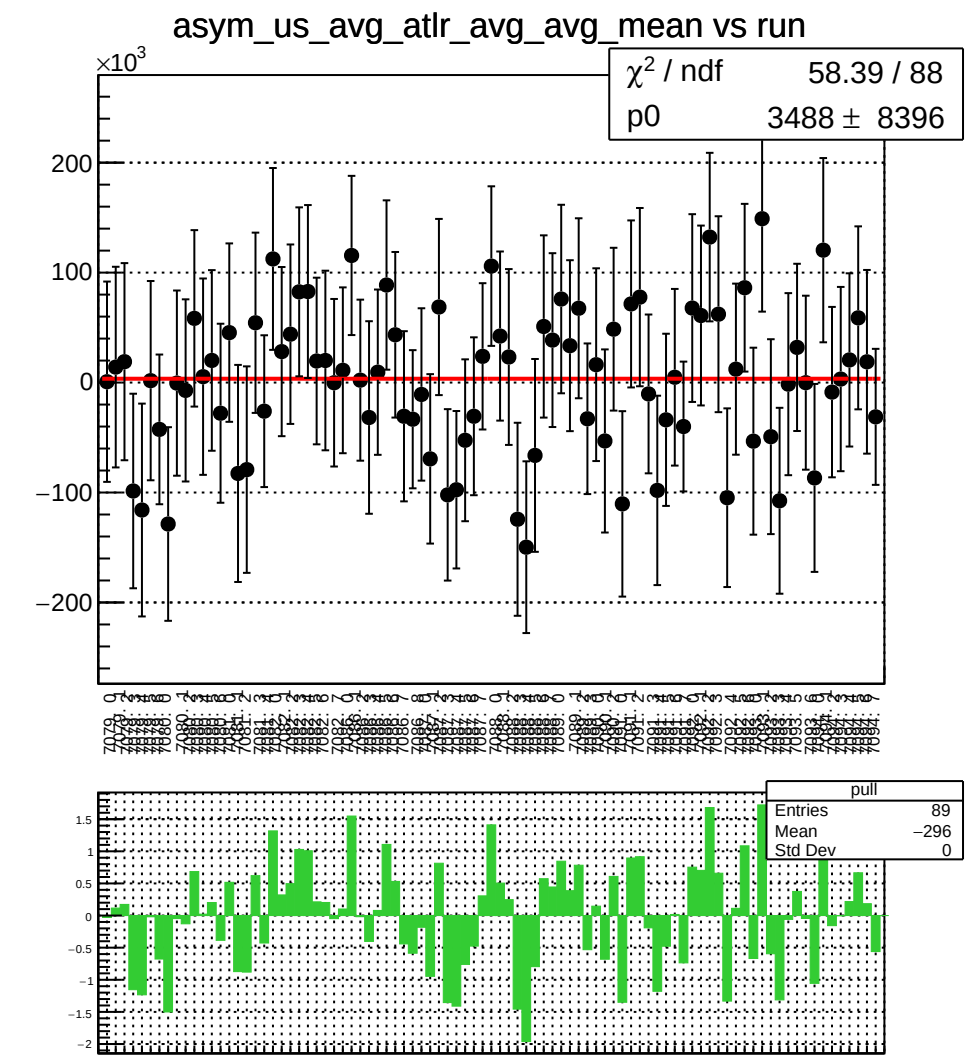

pull1D
Entries 89
Mean −0.02182
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

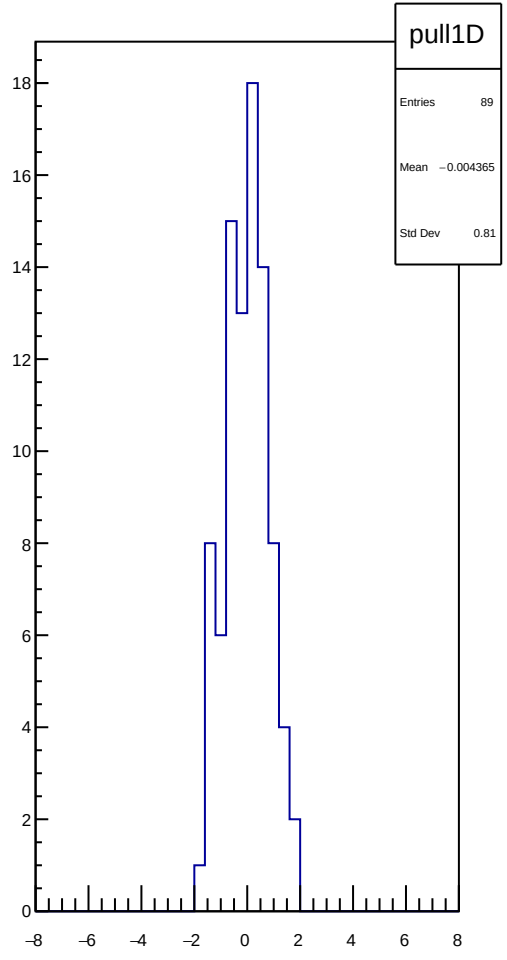

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 270 / 88
p0 1862 ± 1.434
1960
1940
1920
1900
1880
1860
1840
1820
1800

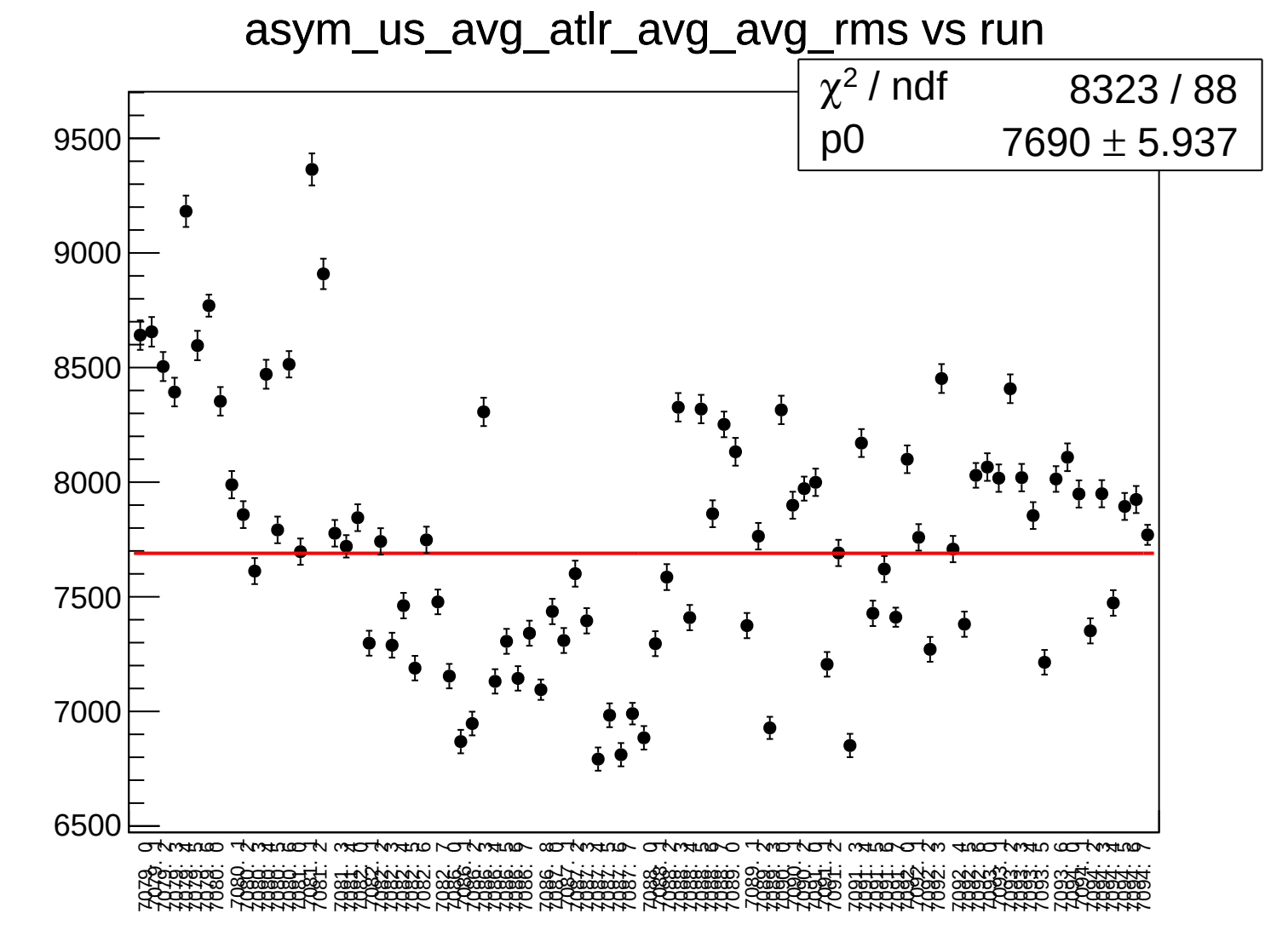

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.67 / 88
p0 −1539 ± 8492
200
100
0
−100
−200
pull
Entries 89
Mean −493.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

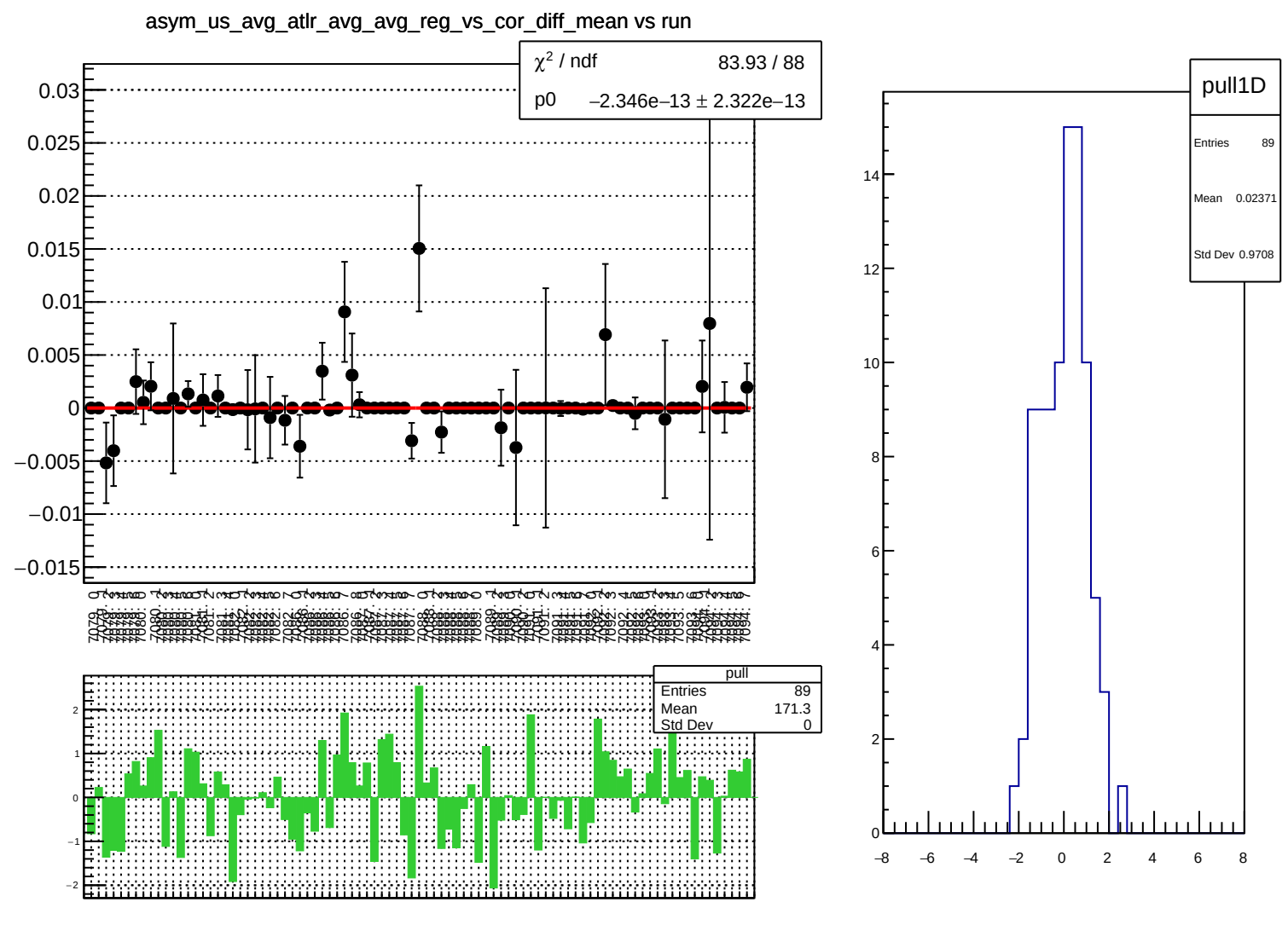

pull1D
Entries 89
Mean 0.002809
Std Dev 0.8719
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

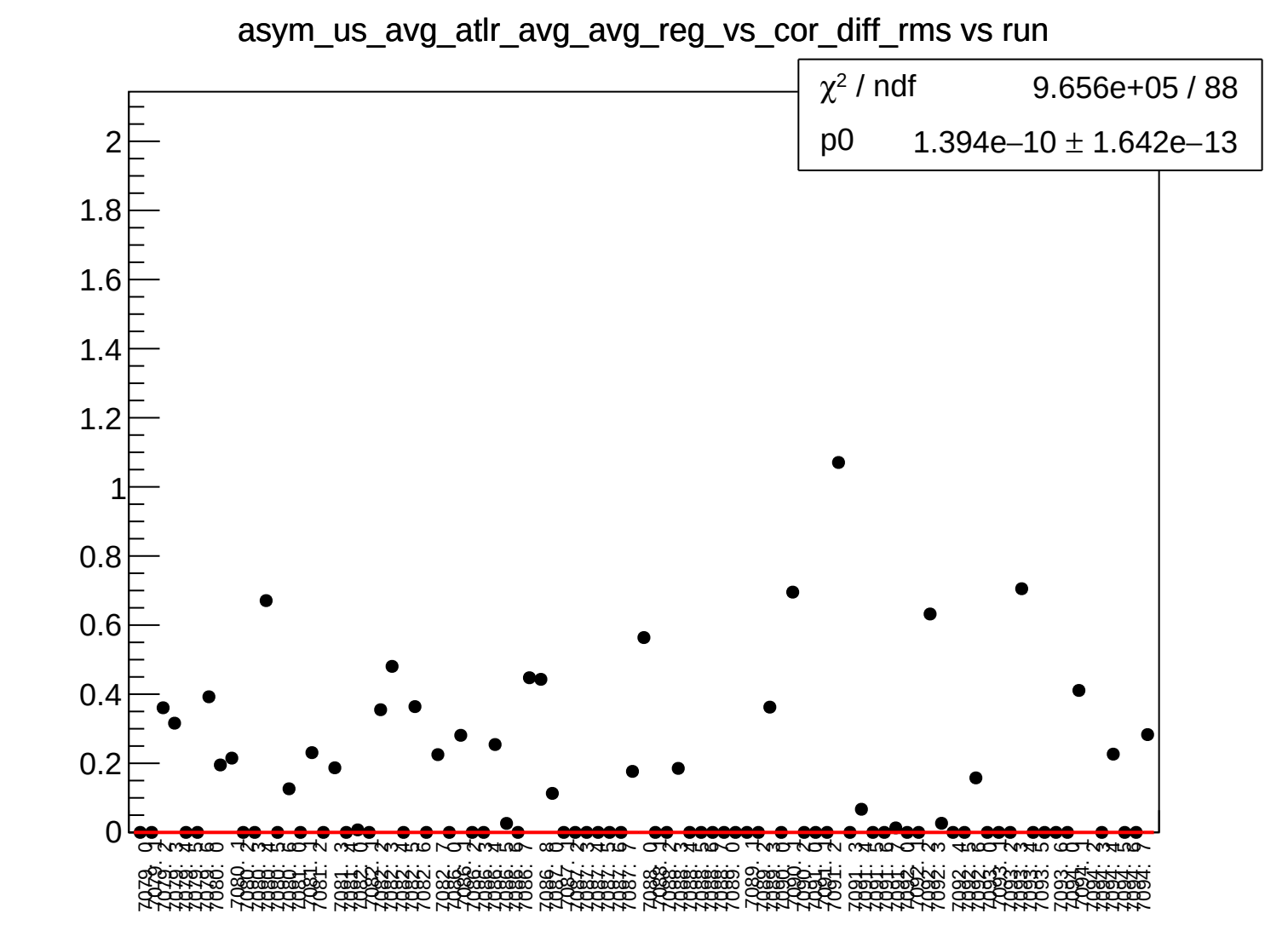

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 9199 / 88
p0 7776 ± 6.005
9500
9000
8500
8000
7500
7000
6500

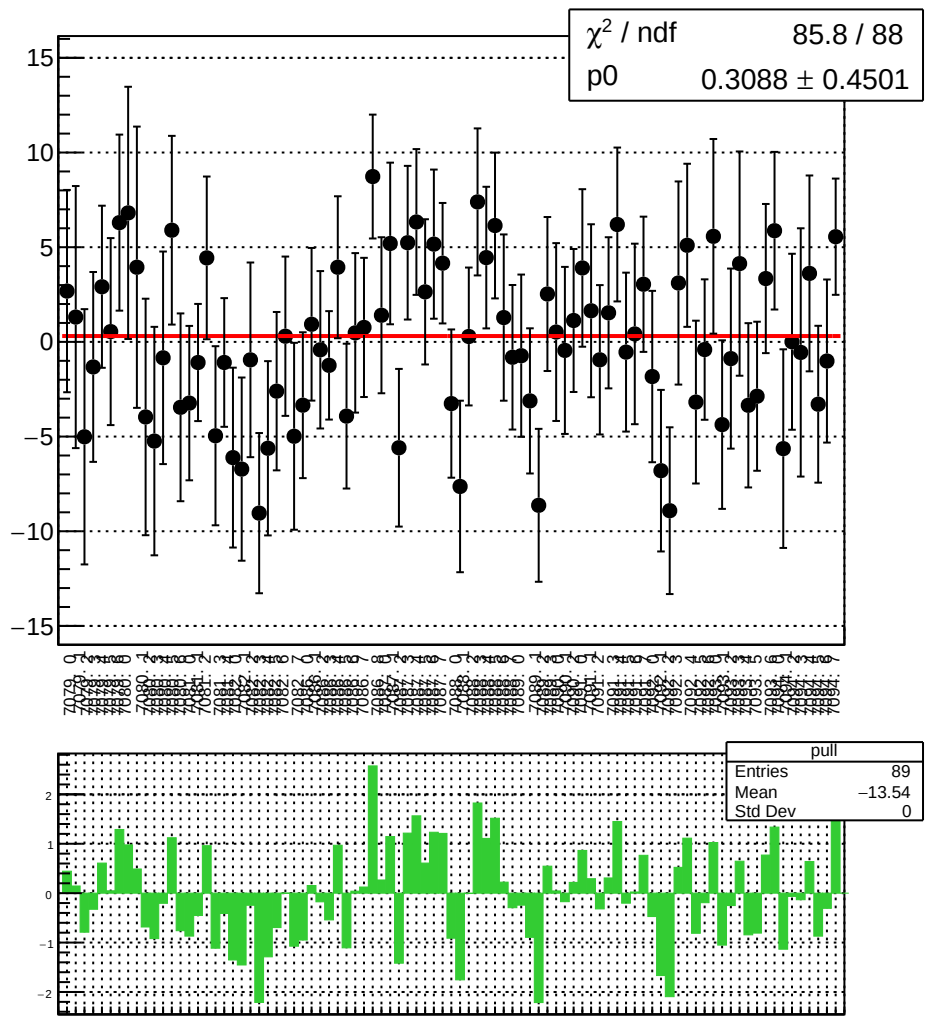

asym_us_avg_atlr_avg_avg_mean vs run
χ^2 / ndf 58.39 / 88
p0 3488 ± 8396
×10^3
200
100
0
−100
−200
pull
Entries 89
Mean −296
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

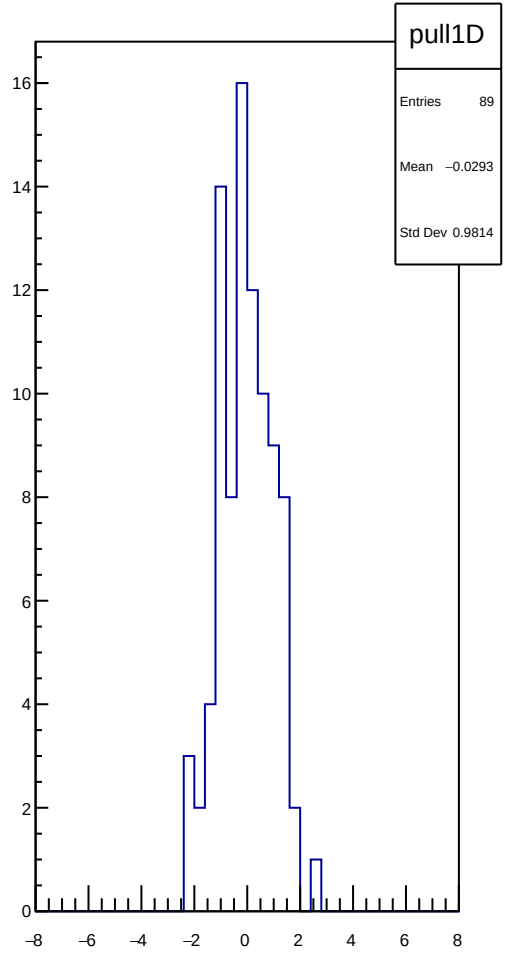

pull1D
Entries 89
Mean −0.004365
Std Dev 0.81
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

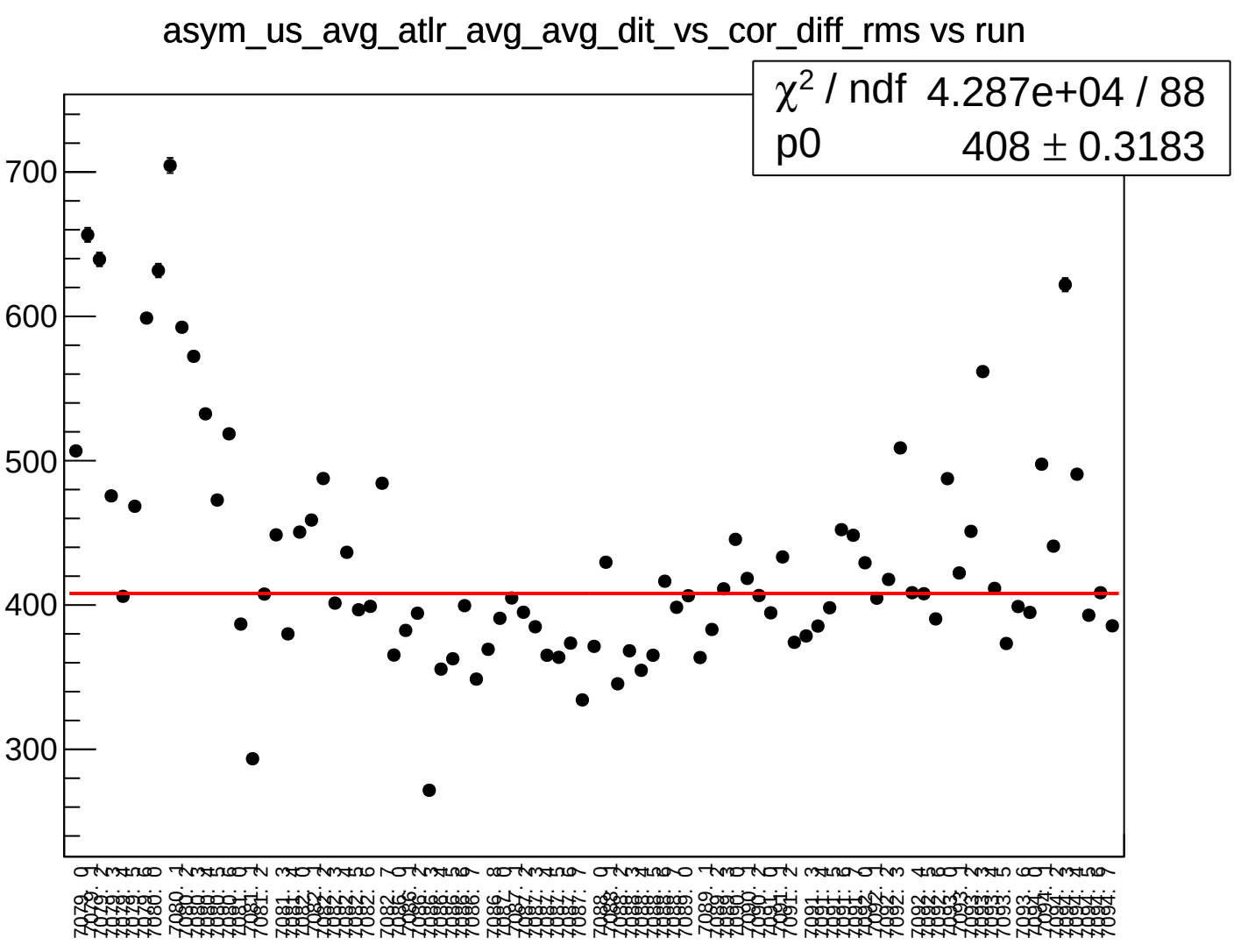

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 8323 / 88
p0 7690 ± 5.937
9500
9000
8500
8000
7500
7000
6500

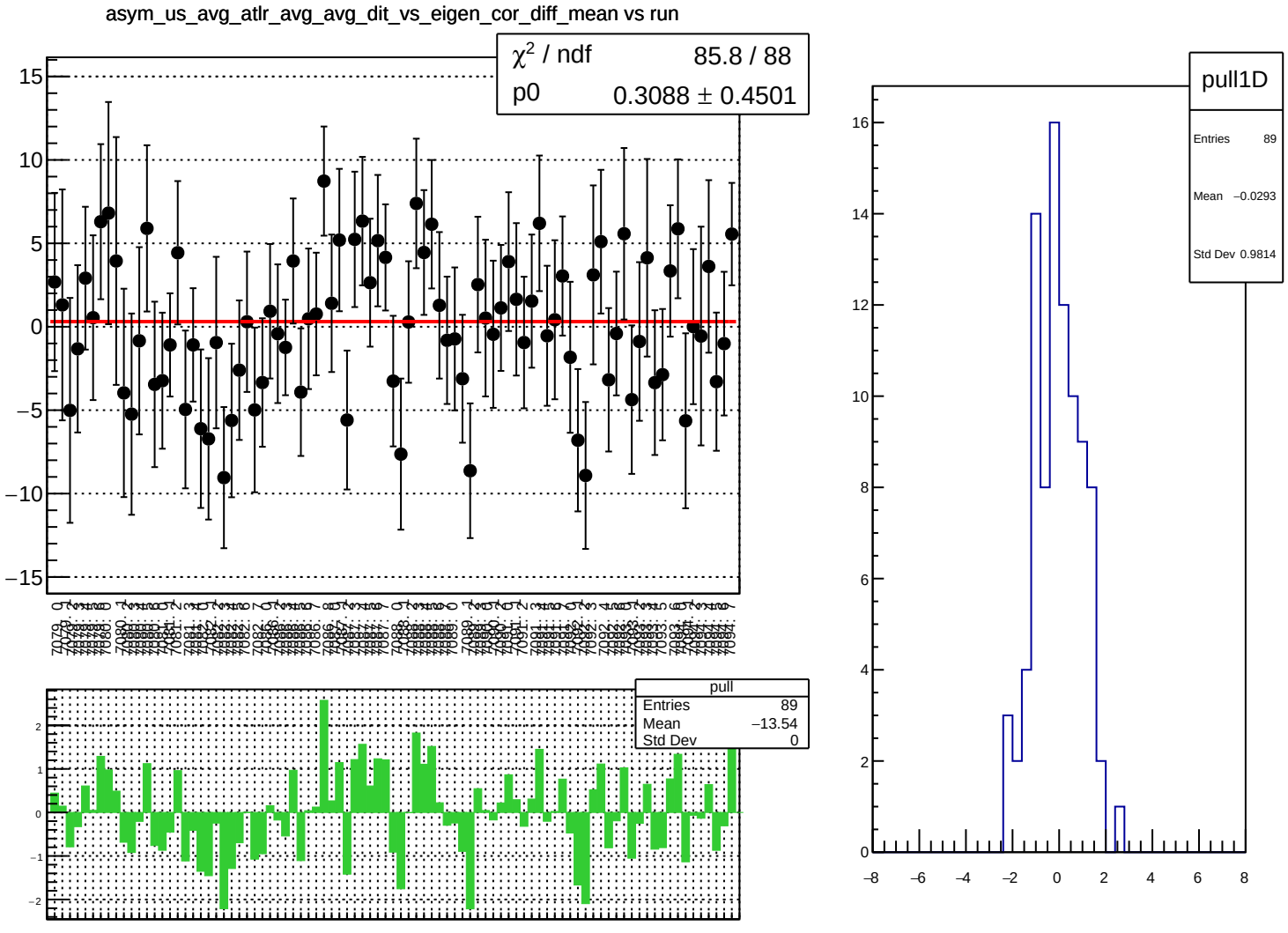

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.93 / 88
p0 −2.346e−13 ± 2.322e−13
pull
Entries 89
Mean 171.3
Std Dev 0
pull1D
Entries 89
Mean 0.02371
Std Dev 0.9708

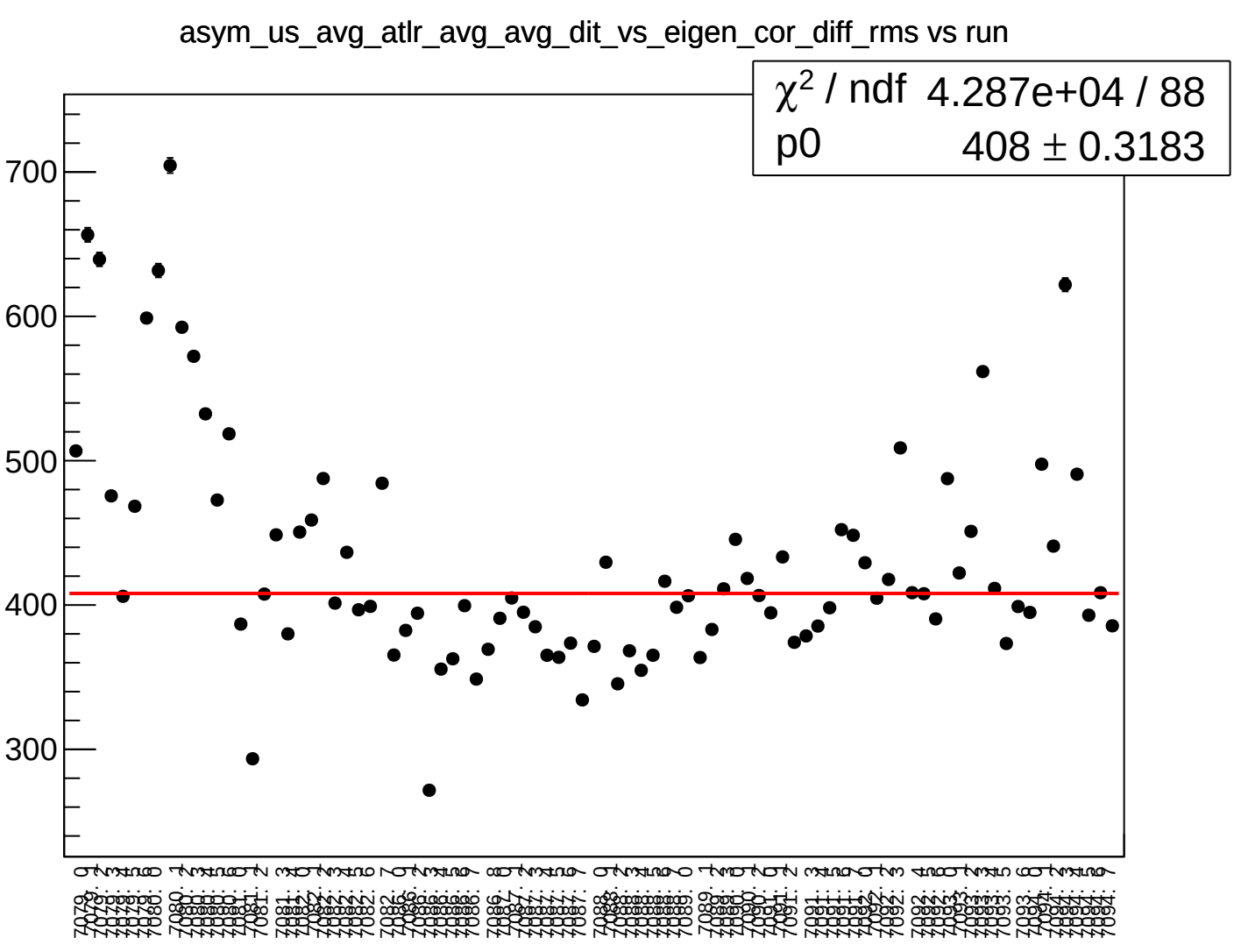

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.656e+05 / 88
p0 1.394e−10 ± 1.642e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

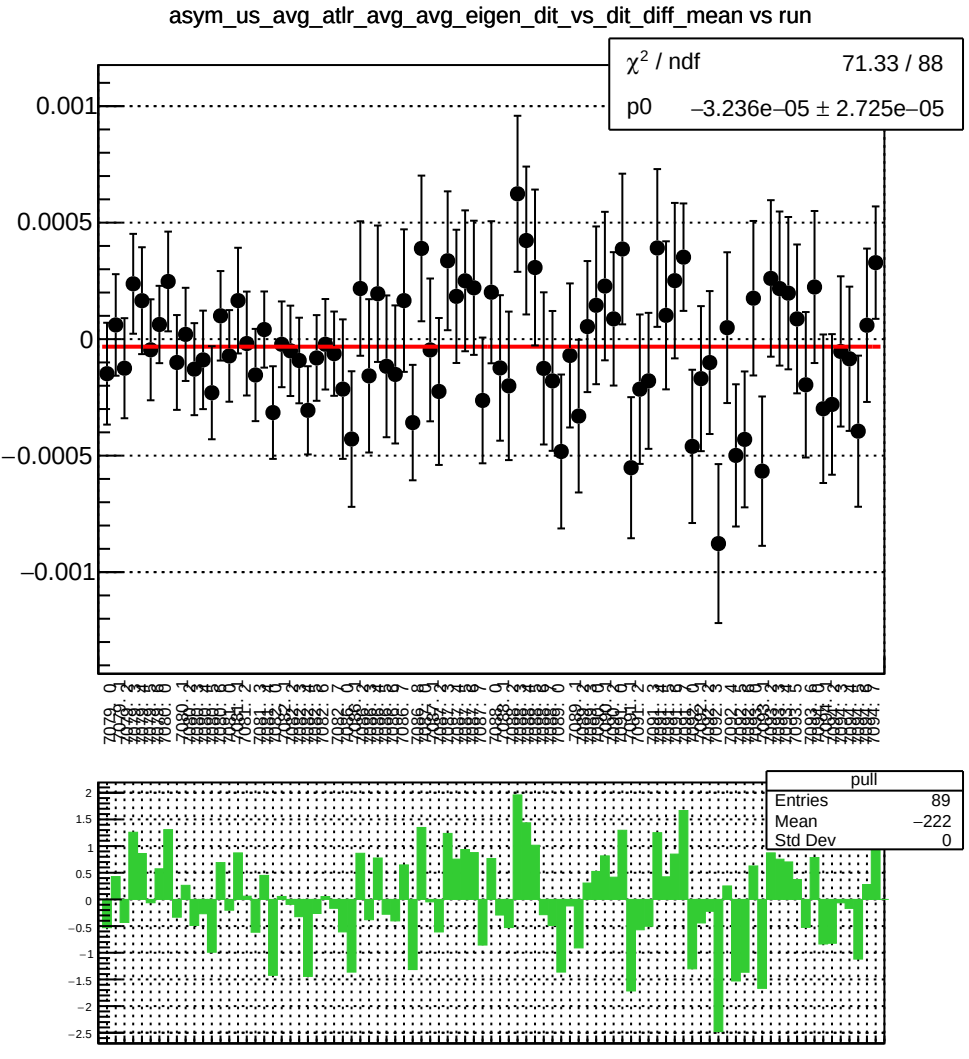

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.8 / 88
p0 0.3088 ± 0.4501
pull
Entries 89
Mean −13.54
Std Dev 0

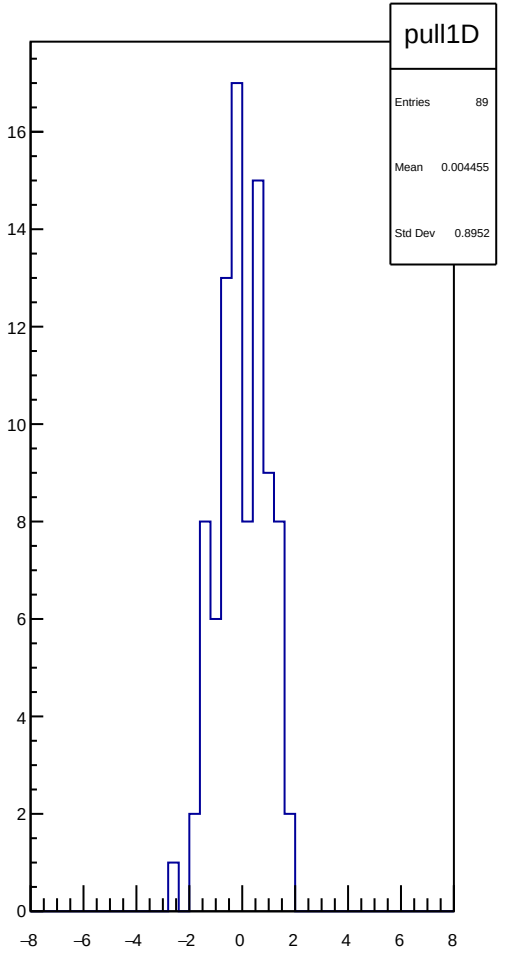

pull1D
Entries 89
Mean −0.0293
Std Dev 0.9814

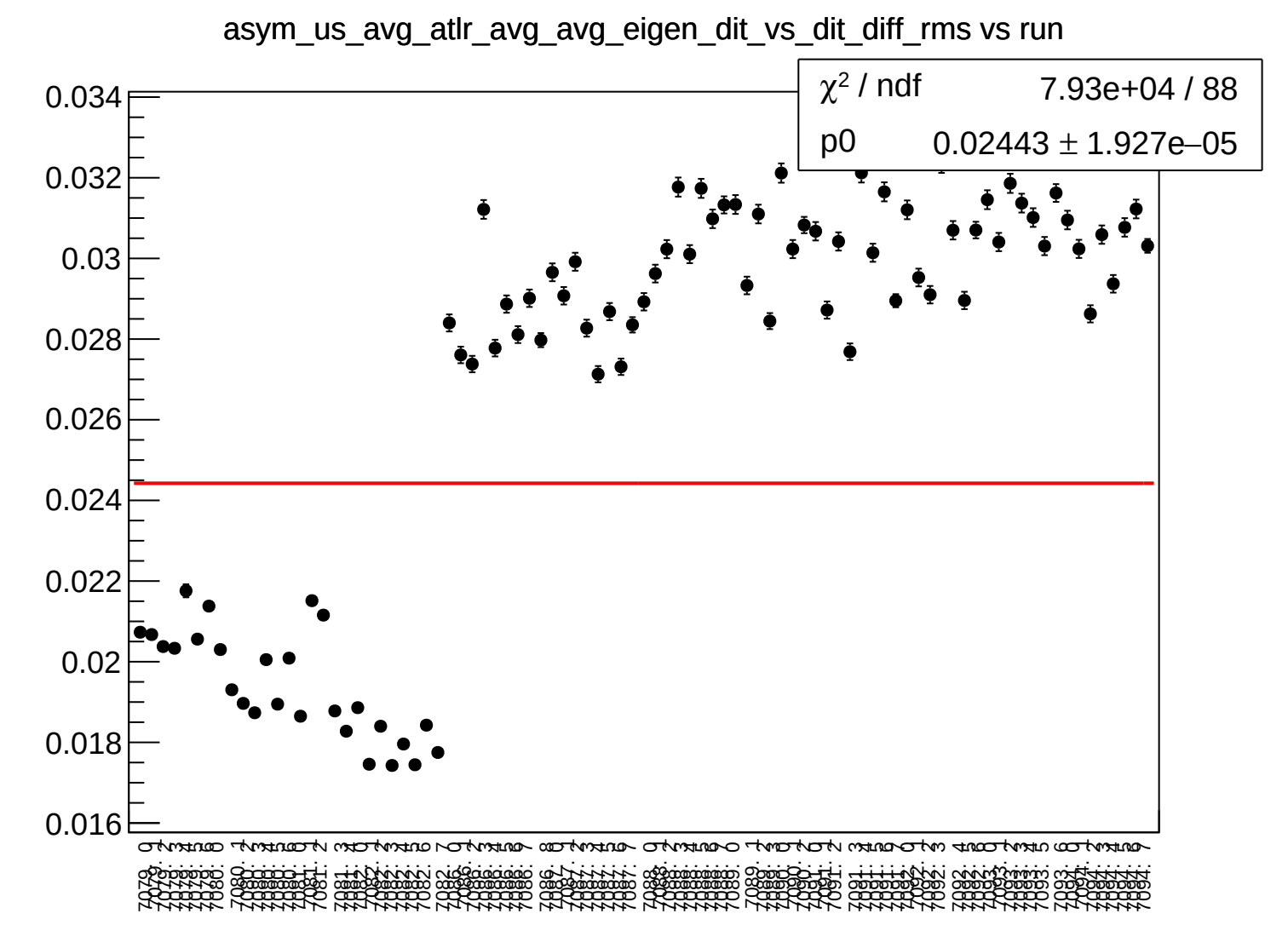

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.287e+04 / 88
p0 408 ± 0.3183
700
600
500
400
300

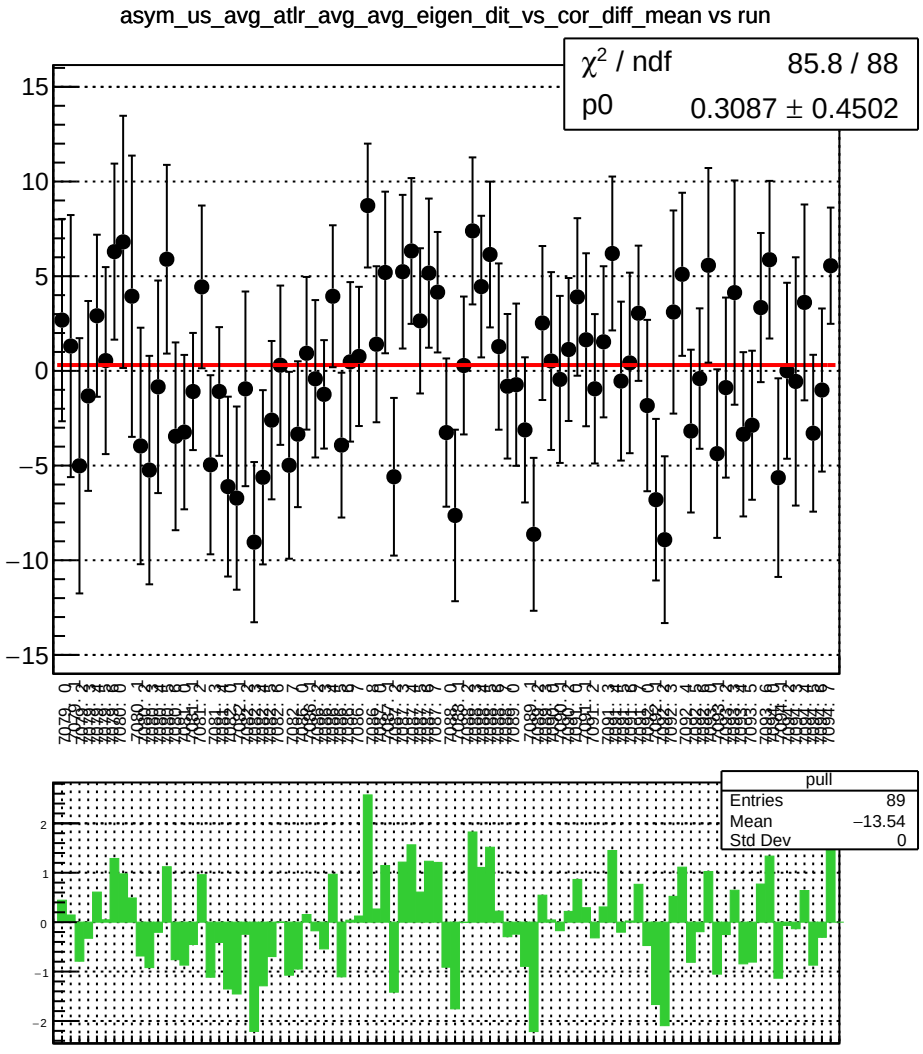

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.8 / 88
p0 0.3088 ± 0.4501
pull
Entries 89
Mean −13.54
Std Dev 0
pull1D
Entries 89
Mean −0.0293
Std Dev 0.9814

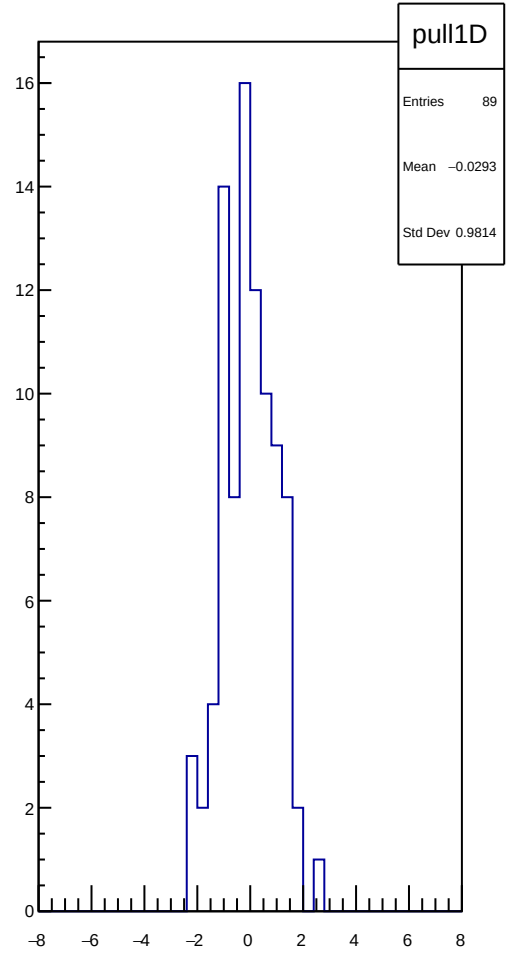

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.287e+04 / 88
p0 408 ± 0.3183
700
600
500
400
300

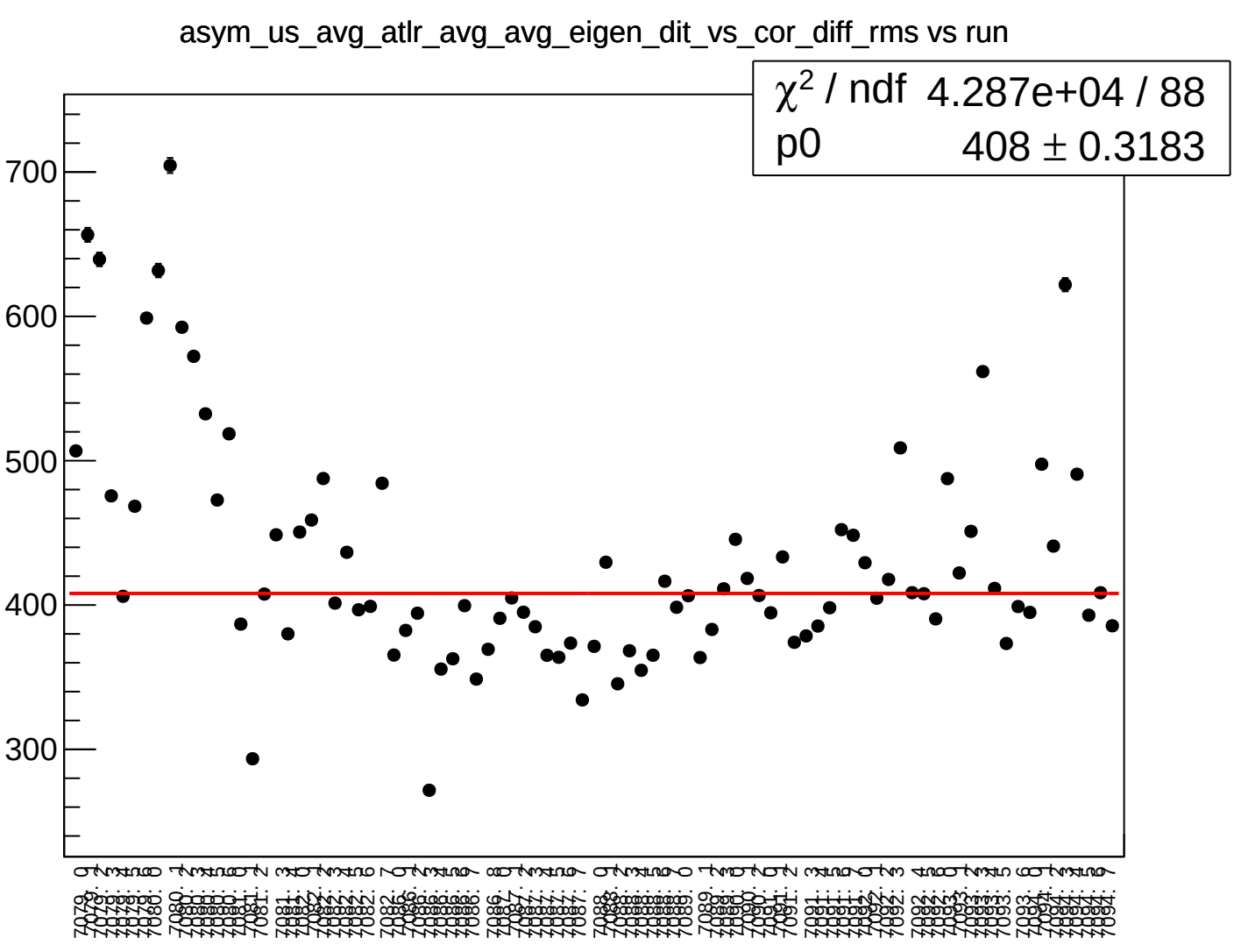

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.33 / 88
p0 −3.236e−05 ± 2.725e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −222
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

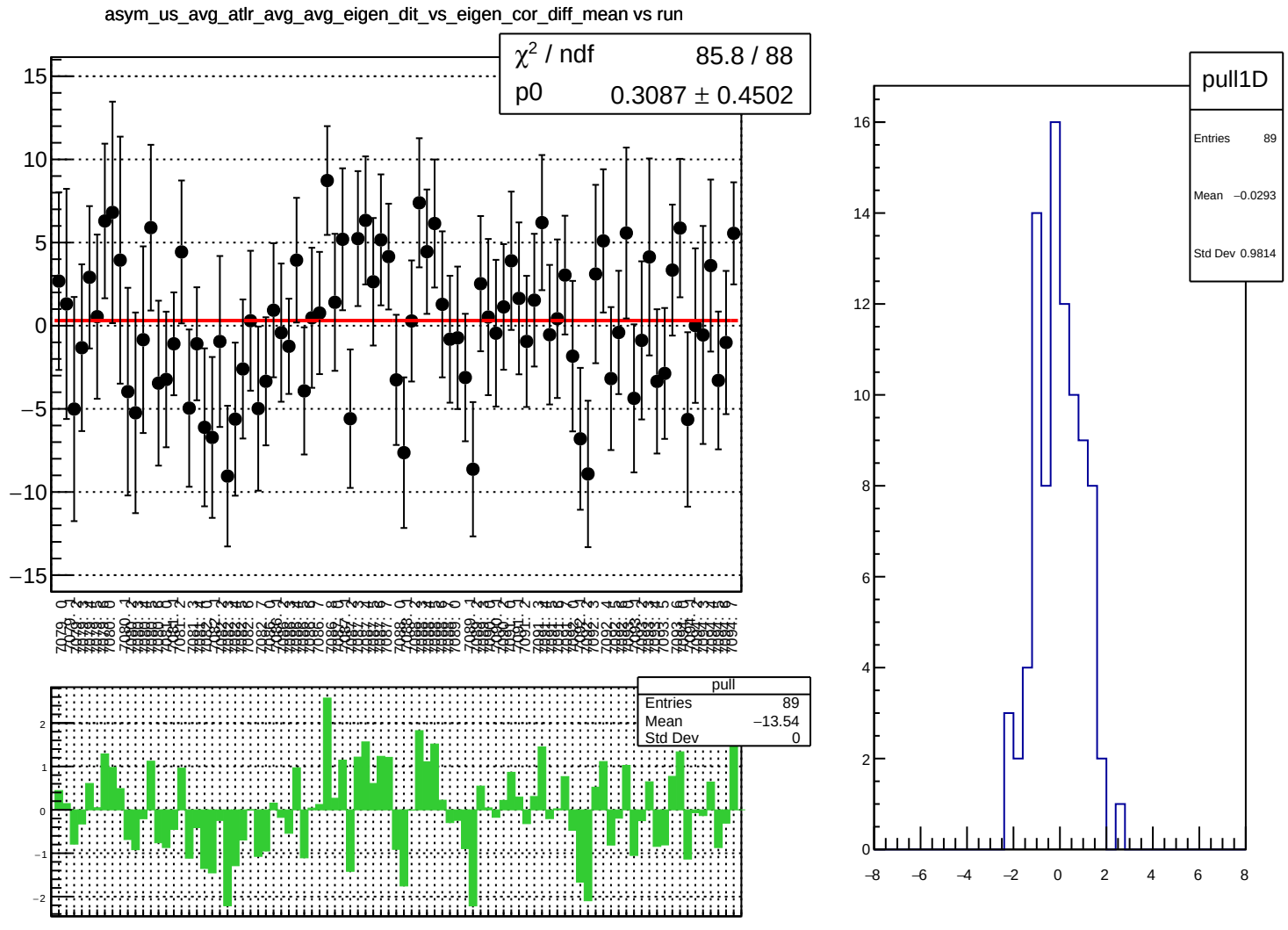

pull1D
Entries 89
Mean 0.004455
Std Dev 0.8952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

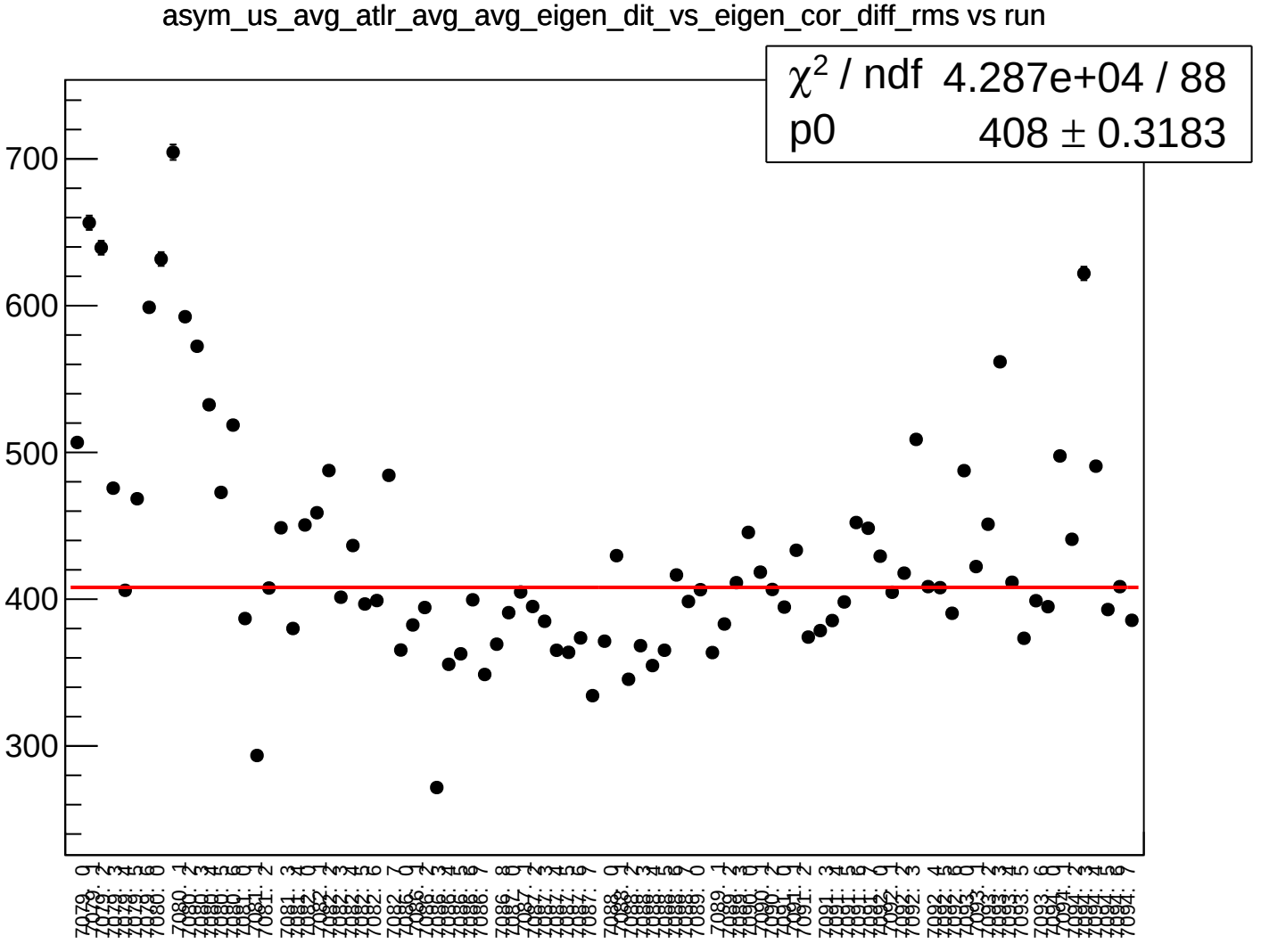

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.93e+04 / 88
p0 0.02443 ± 1.927e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

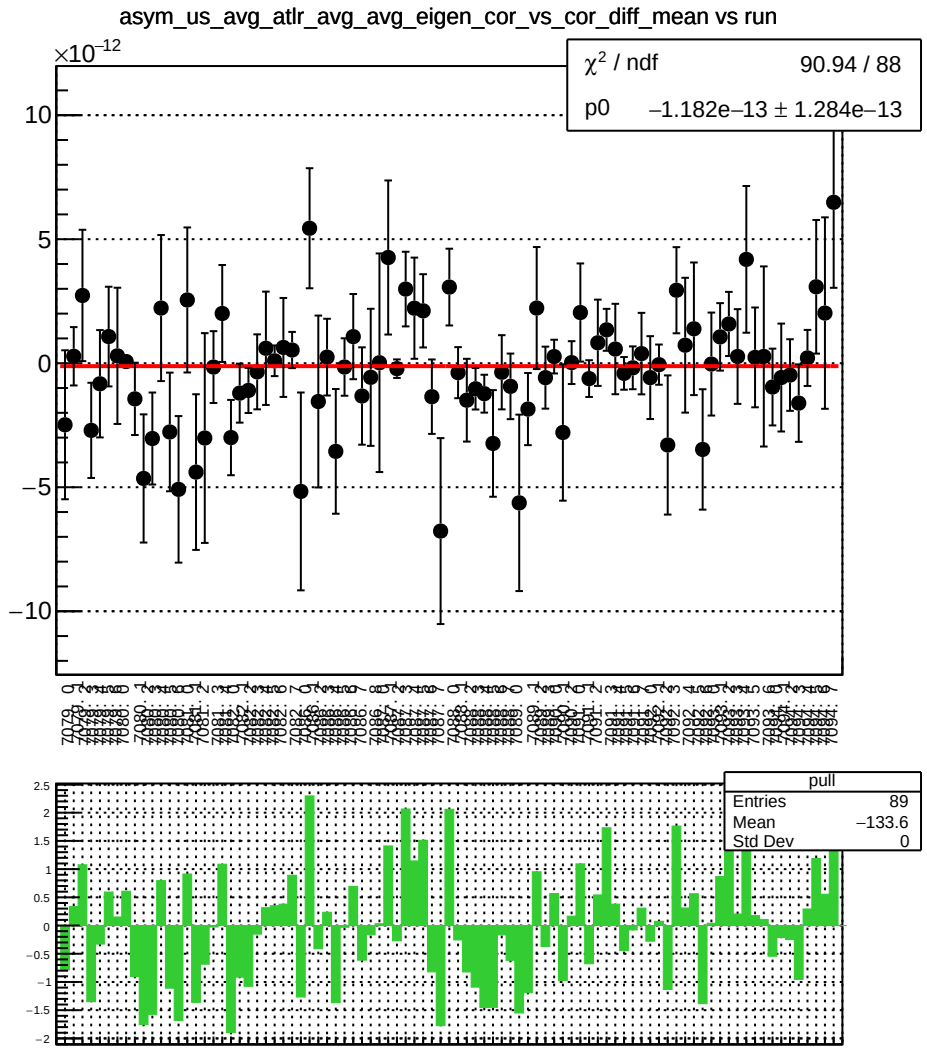

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.8 / 88
p0 0.3087 ± 0.4502
pull
Entries 89
Mean −13.54
Std Dev 0

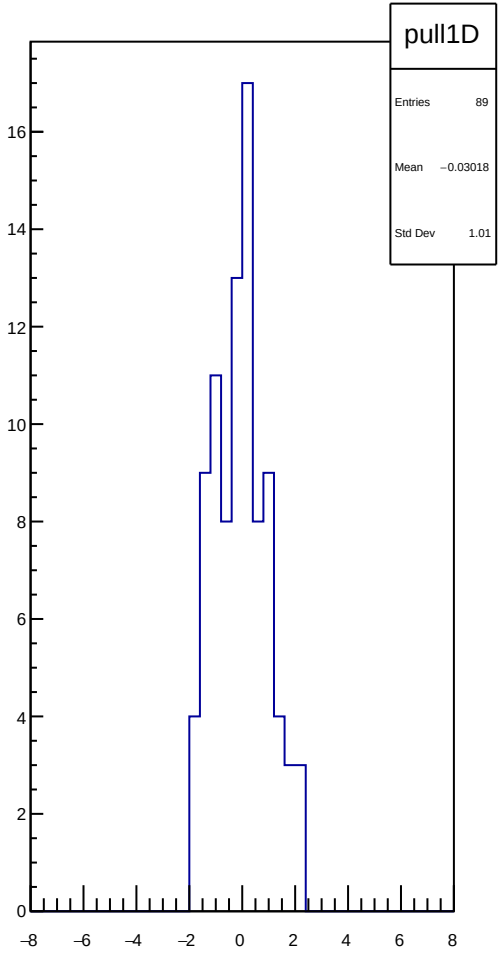

pull1D
Entries 89
Mean −0.0293
Std Dev 0.9814

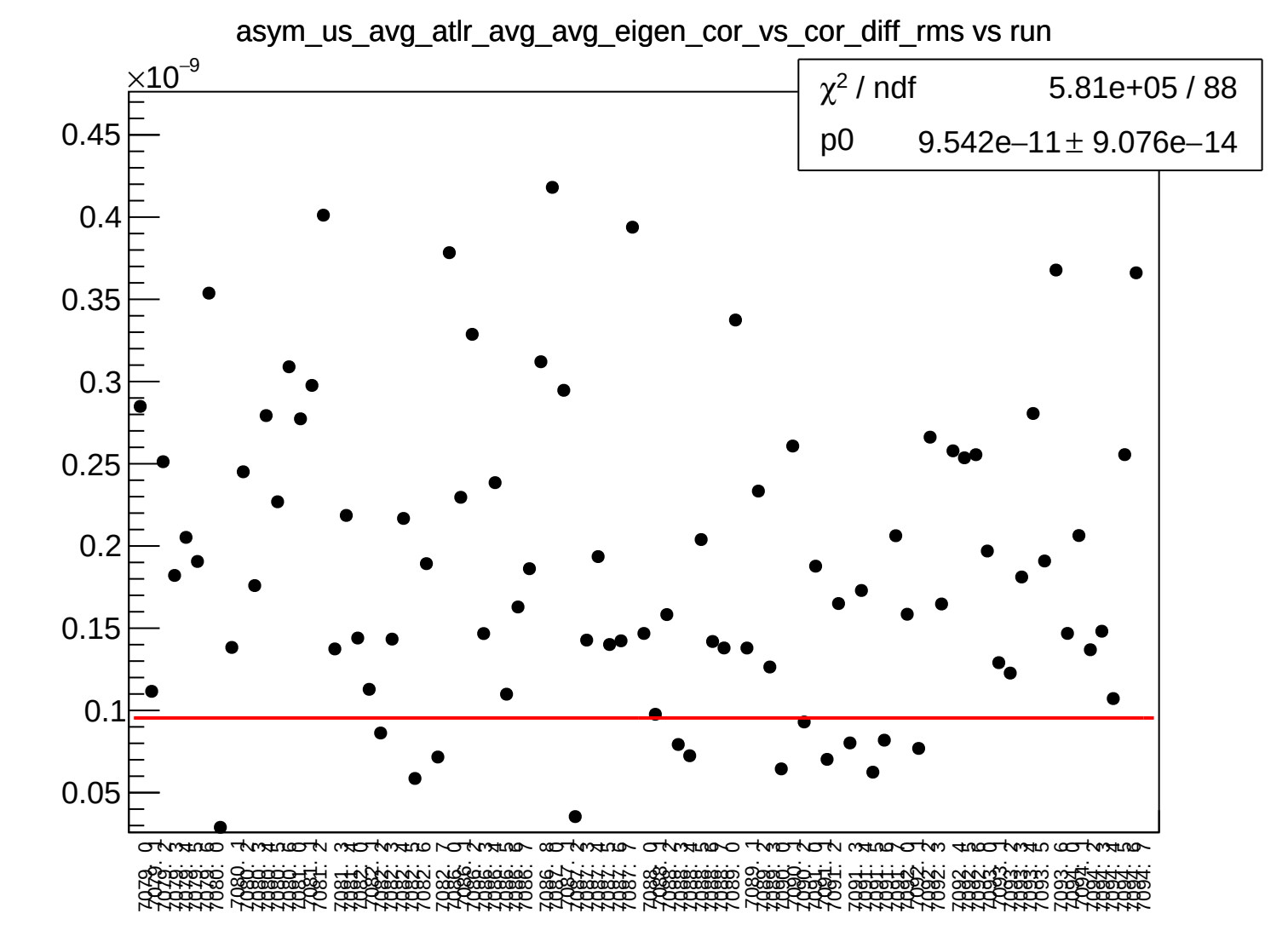

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.287e+04 / 88
p0 408 ± 0.3183
700
600
500
400
300

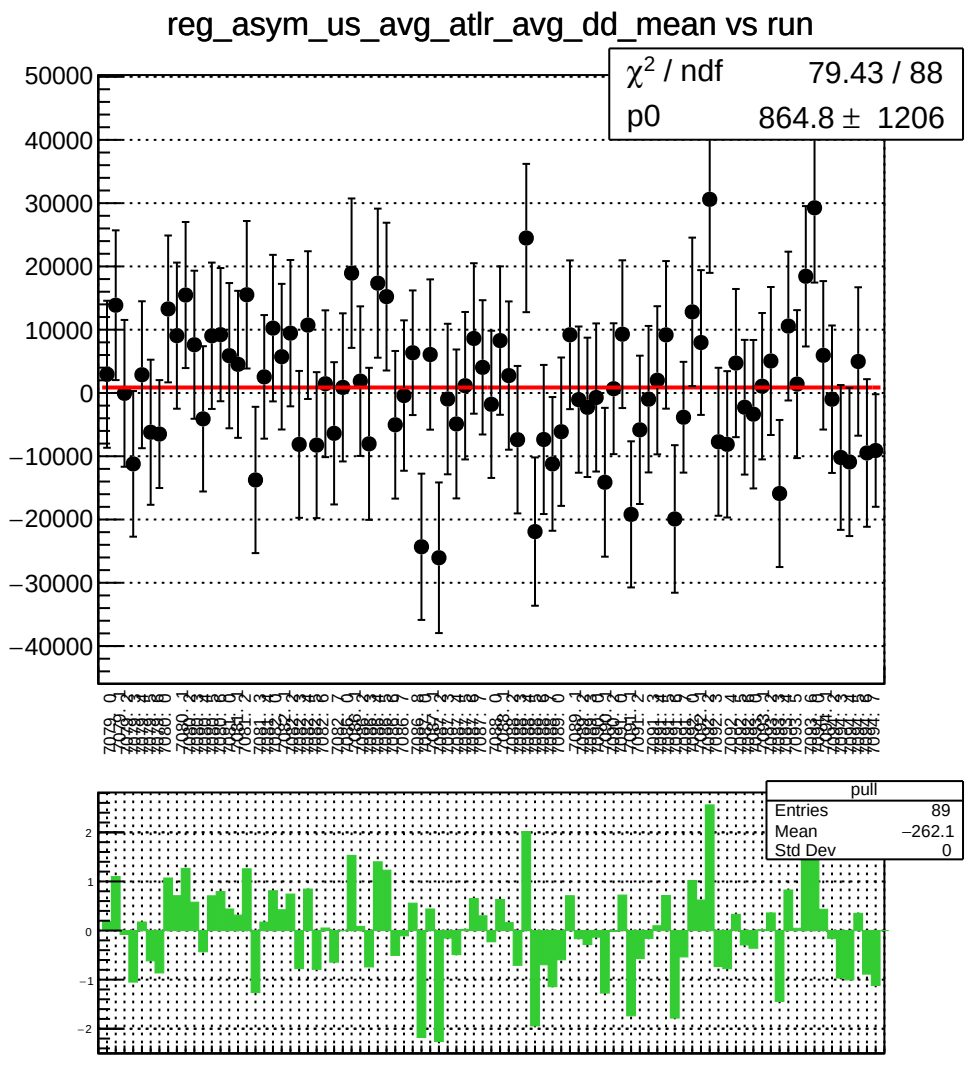

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.8 / 88
p0 0.3087 ± 0.4502
pull
Entries 89
Mean −13.54
Std Dev 0
pull1D
Entries 89
Mean −0.0293
Std Dev 0.9814

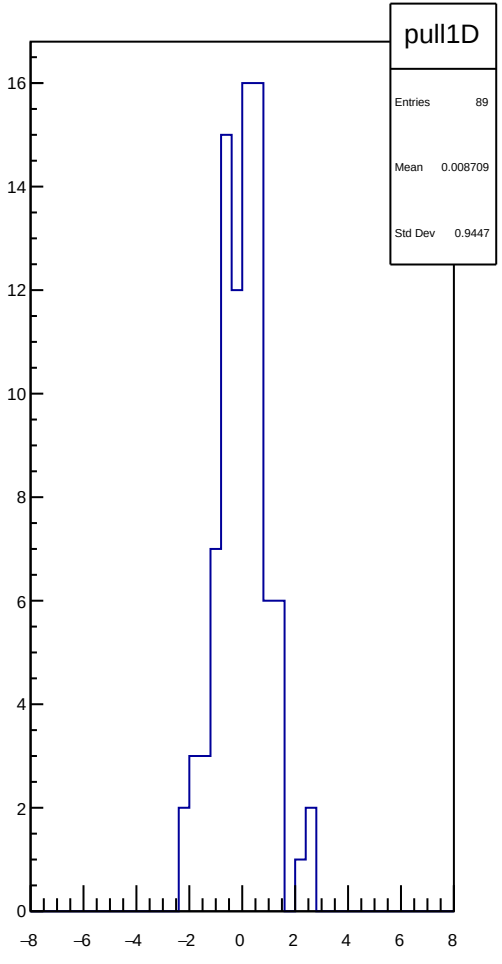

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.287e+04 / 88
p0 408 ± 0.3183
700
600
500
400
300

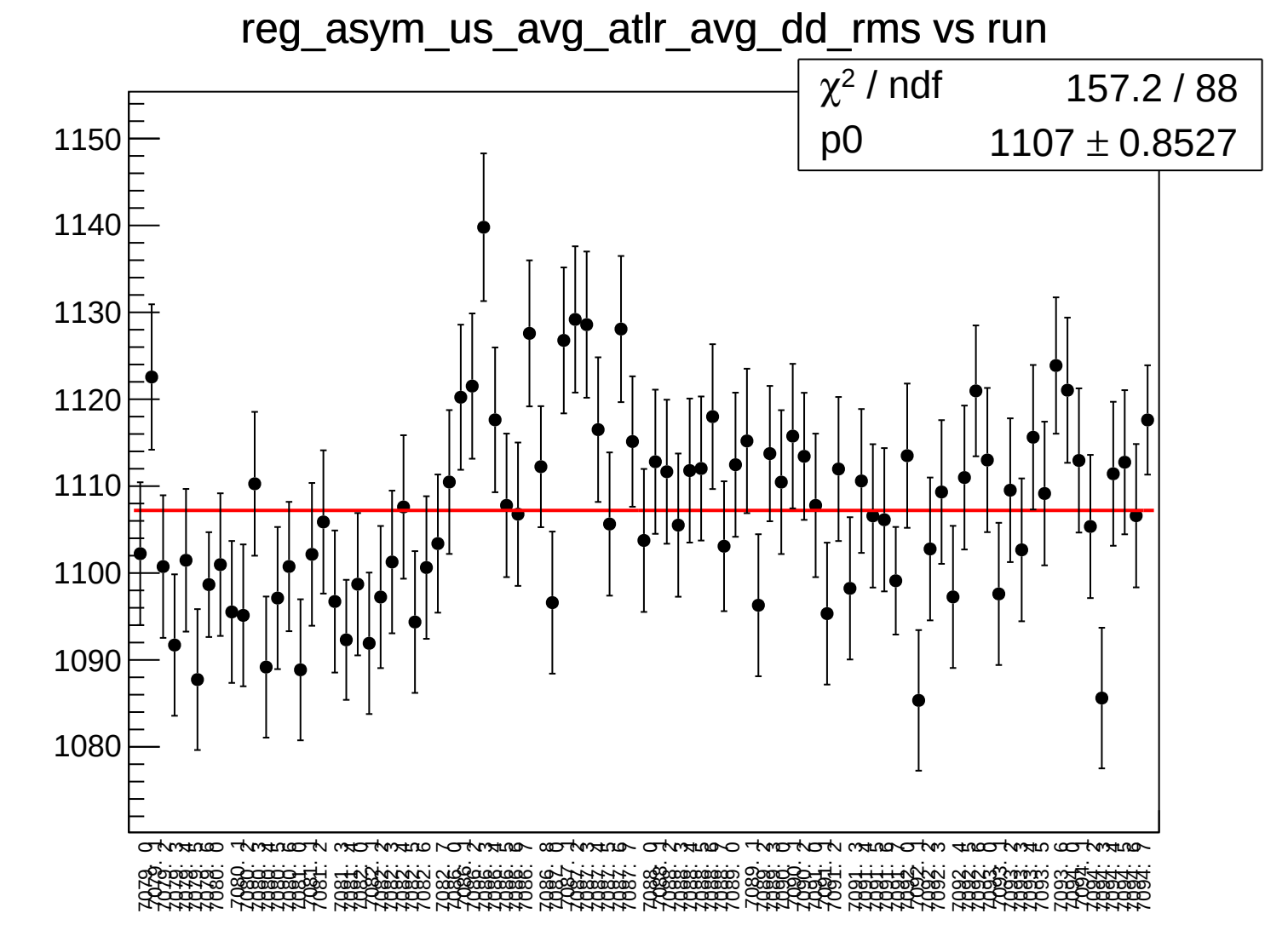

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.94 / 88
p0 −1.182e−13 ± 1.284e−13
pull
Entries 89
Mean −133.6
Std Dev 0

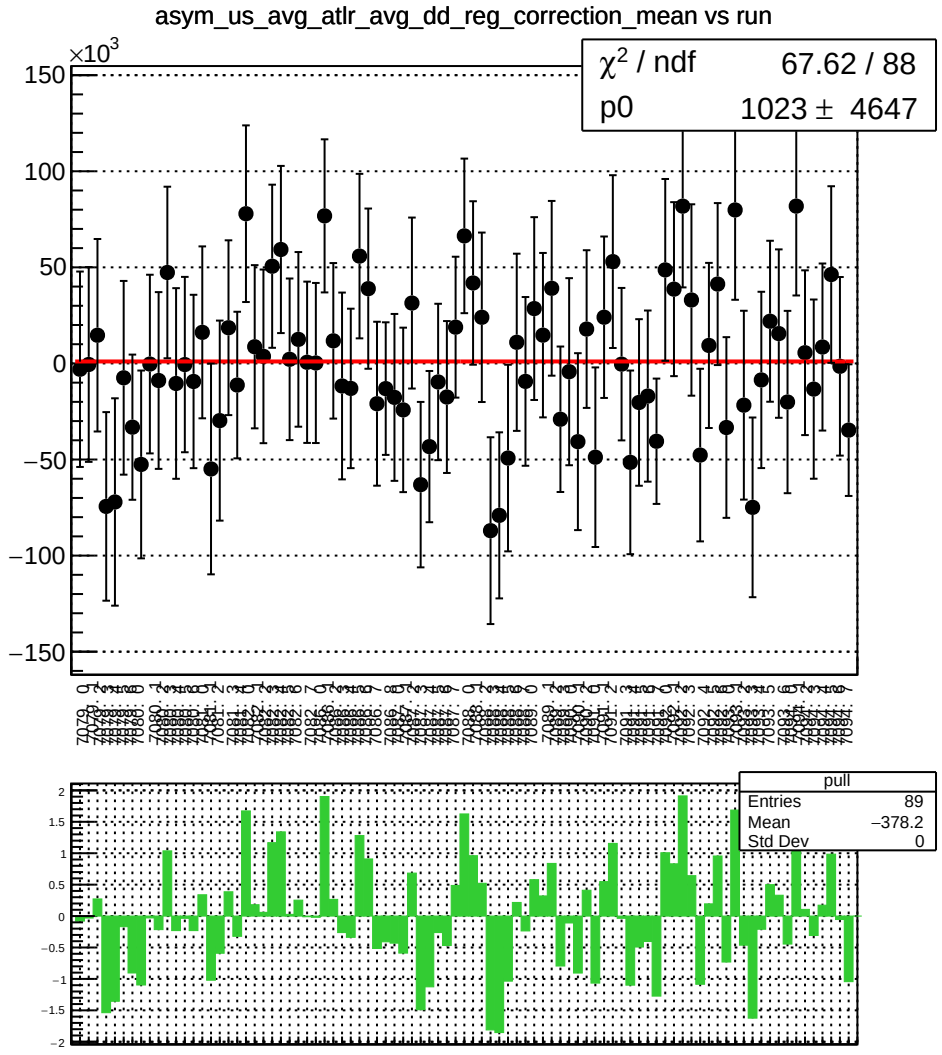

pull1D
Entries 89
Mean −0.03018
Std Dev 1.01

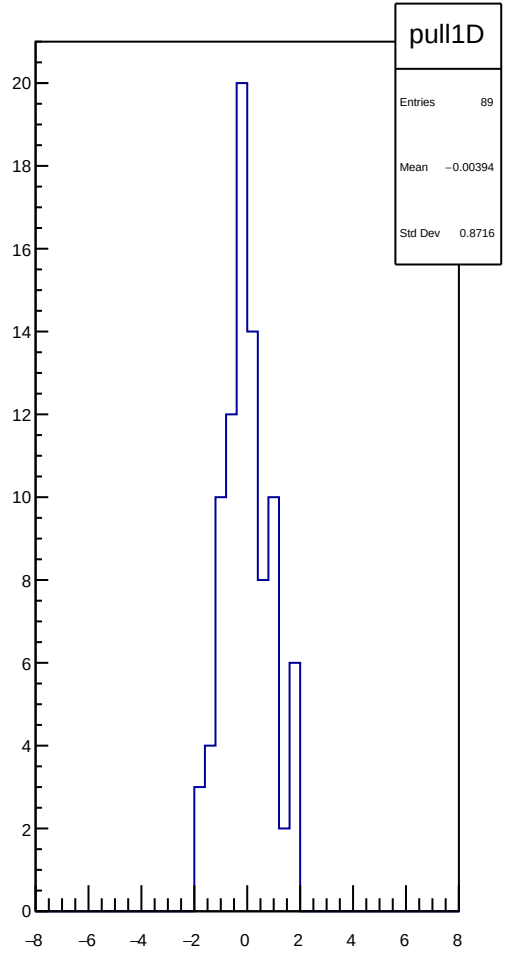

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.81e+05 / 88
p0 9.542e−11 ± 9.076e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

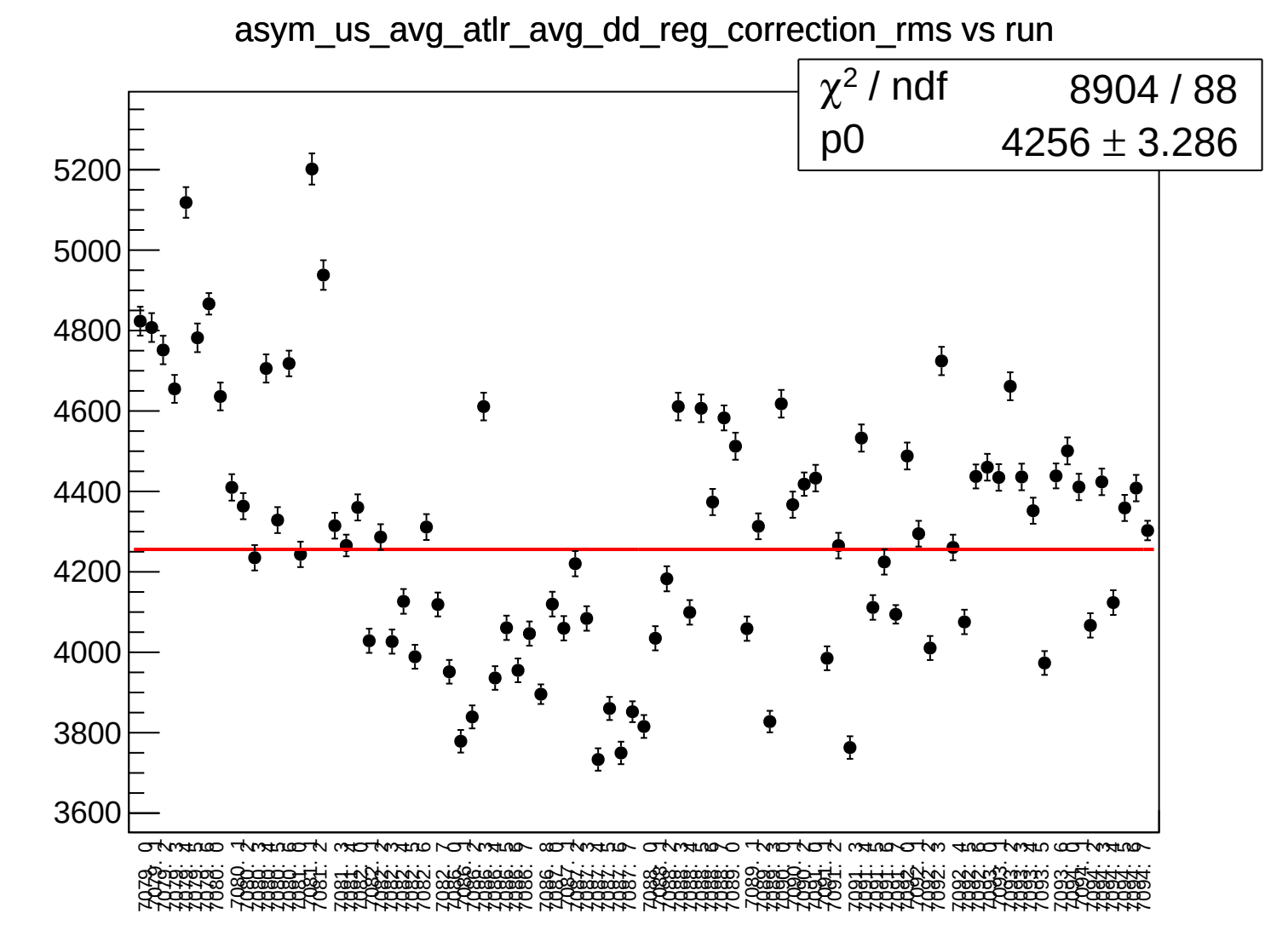

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 79.43 / 88
p0 864.8 ± 1206
pull
Entries 89
Mean −262.1
Std Dev 0

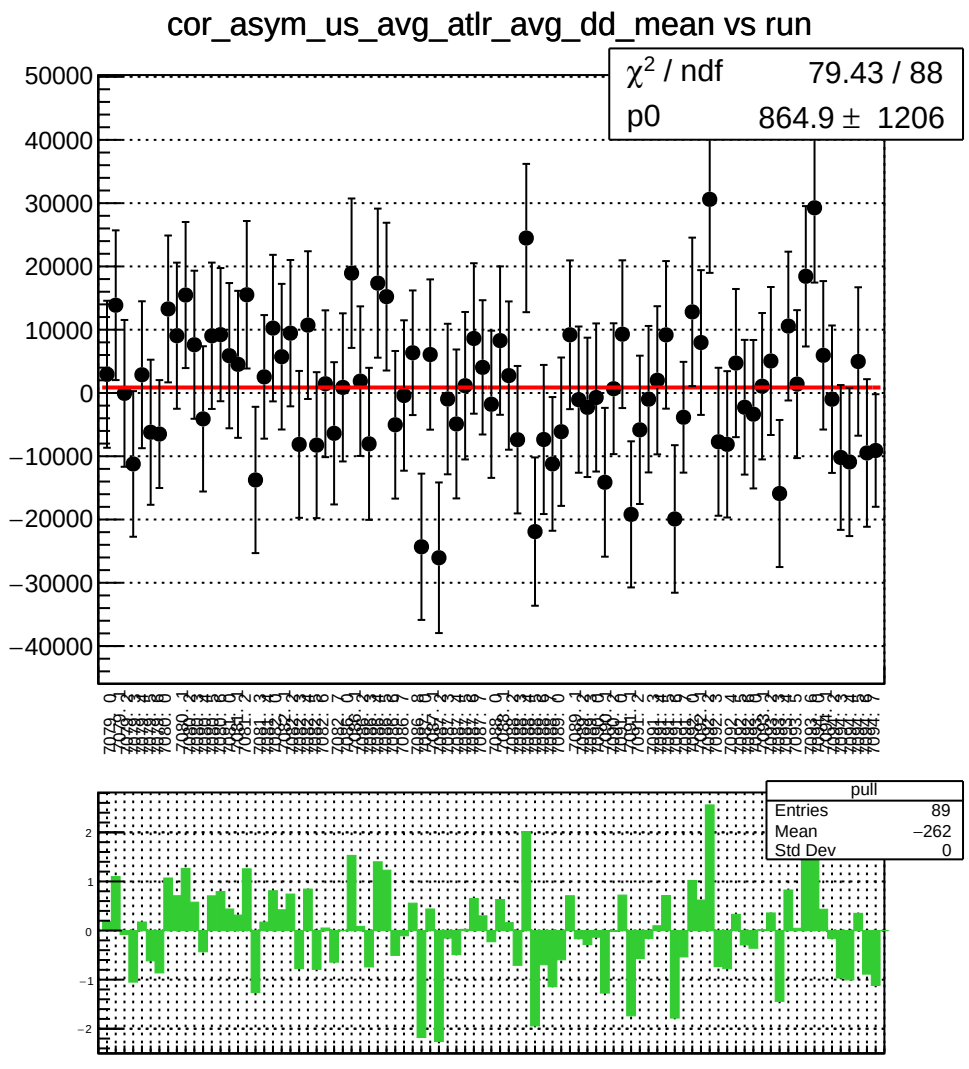

pull1D
Entries 89
Mean 0.008709
Std Dev 0.9447

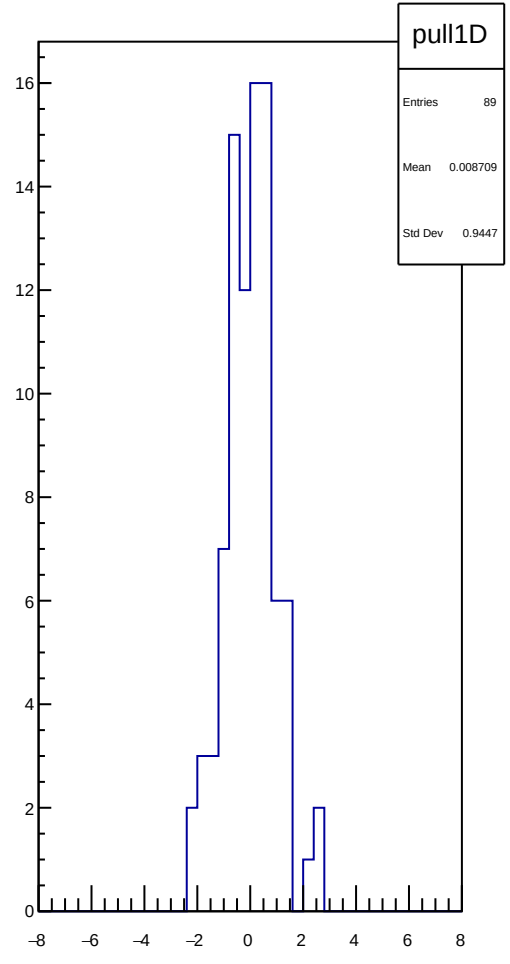

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 157.2 / 88
p0 1107 ± 0.8527
1150
1140
1130
1120
1110
1100
1090
1080

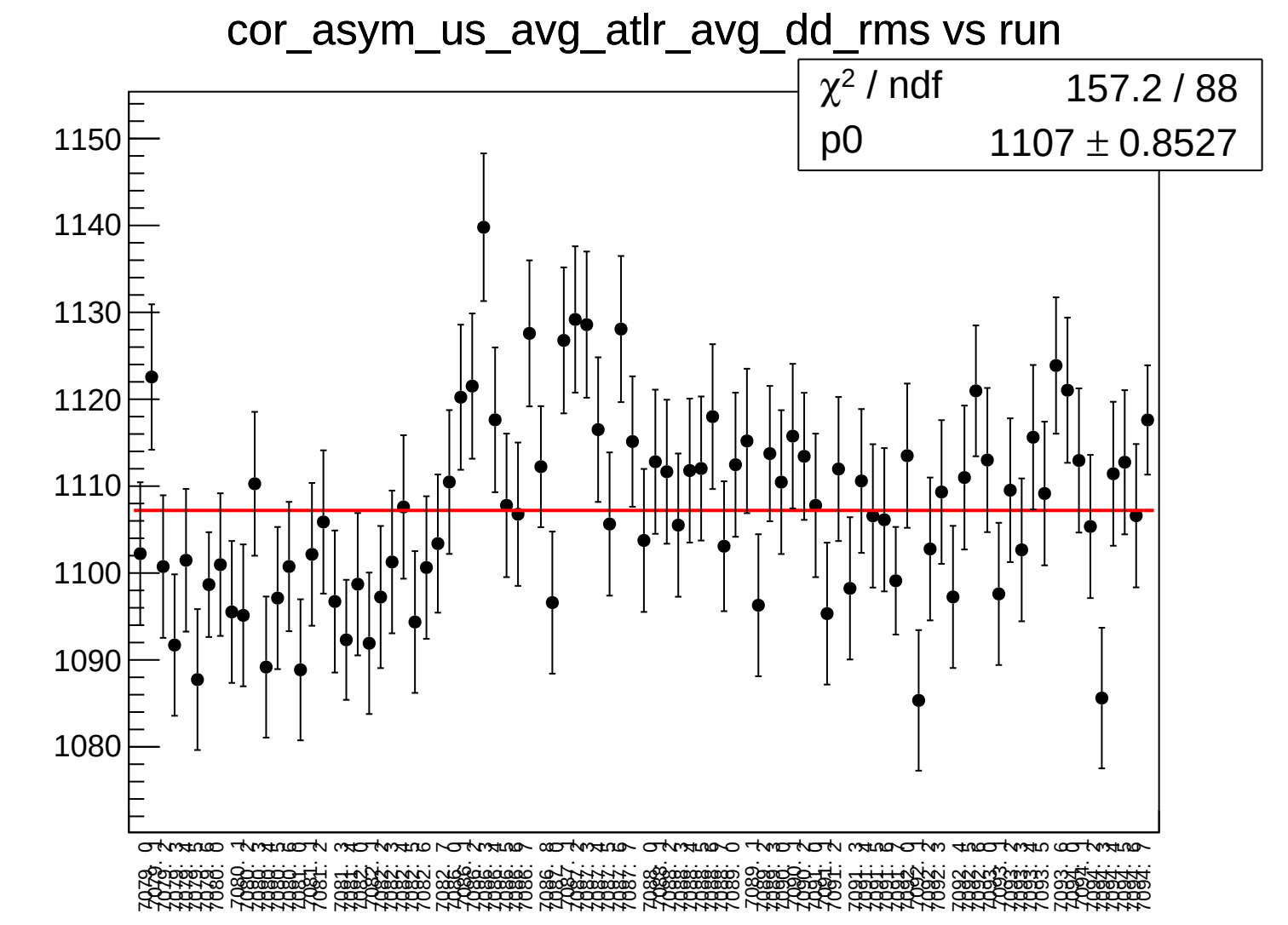

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 67.62 / 88
p0 1023 ± 4647
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −378.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

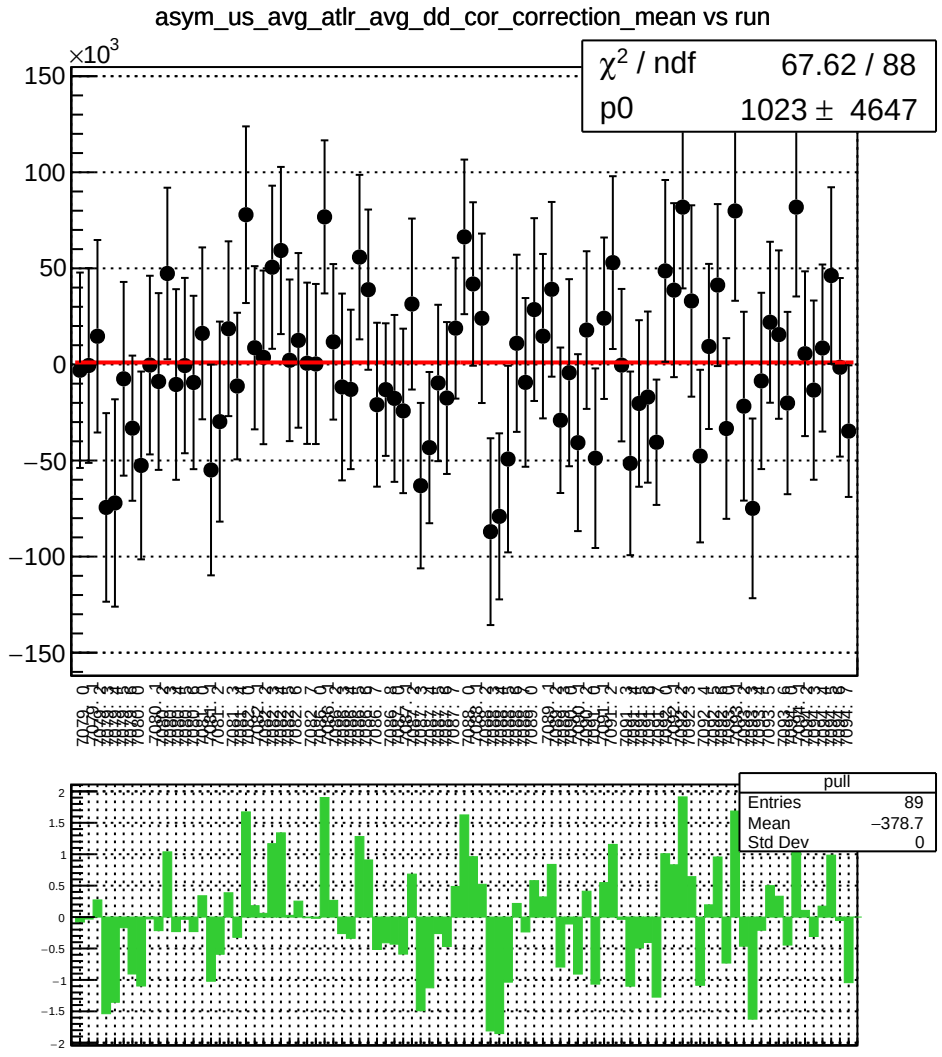

pull1D
Entries 89
Mean −0.00394
Std Dev 0.8716
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

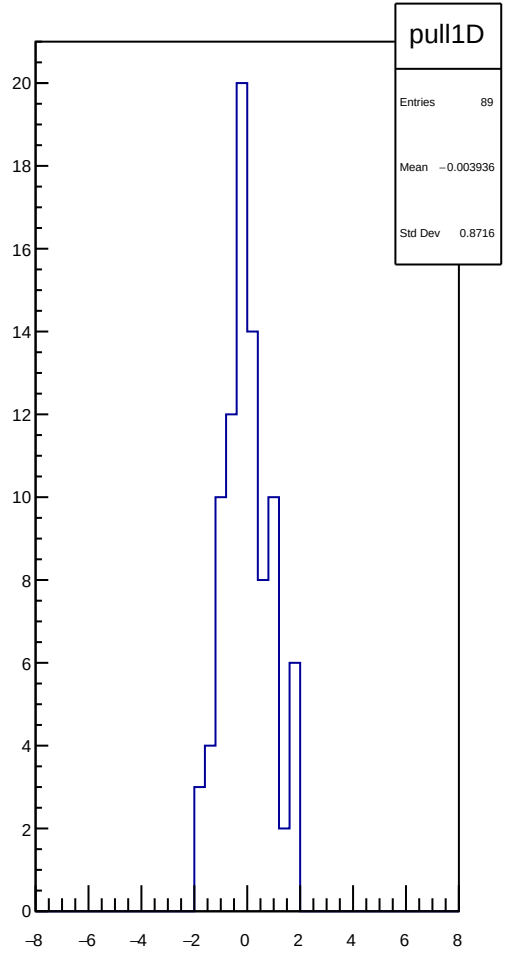

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 8904 / 88
p0 4256 ± 3.286
5200
5000
4800
4600
4400
4200
4000
3800
3600

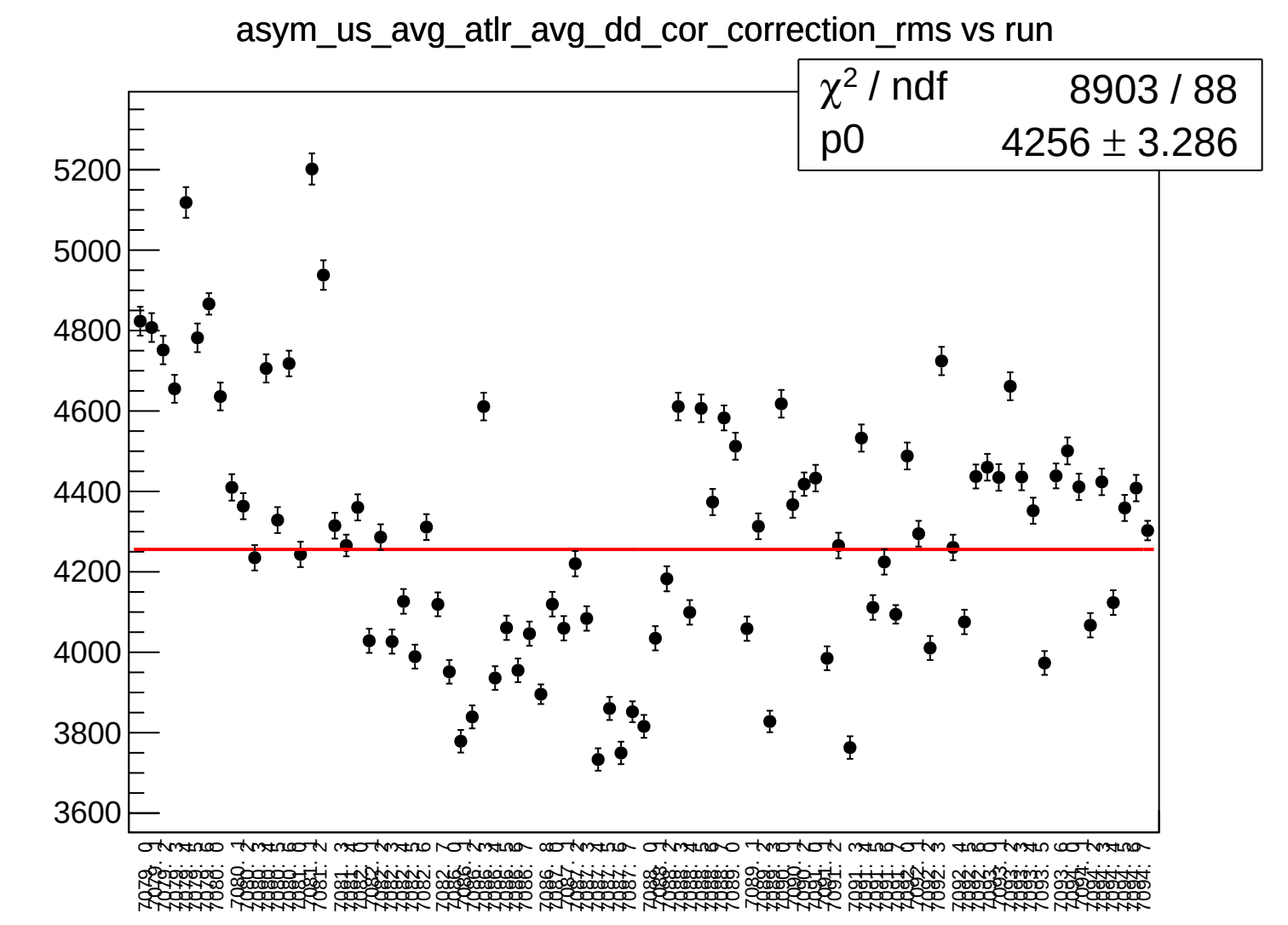

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 79.43 / 88
p0 864.9 ± 1206
pull
Entries 89
Mean −262
Std Dev 0

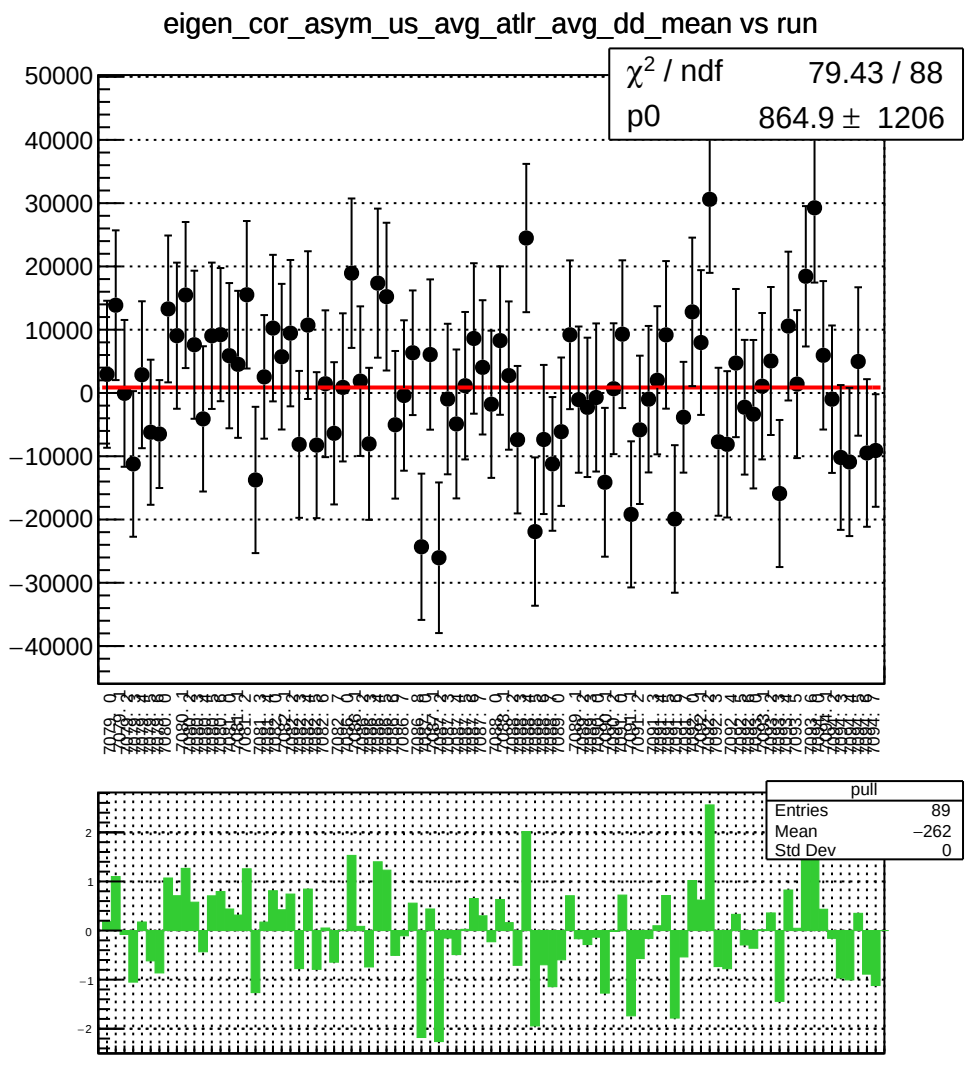

pull1D
Entries 89
Mean 0.008709
Std Dev 0.9447

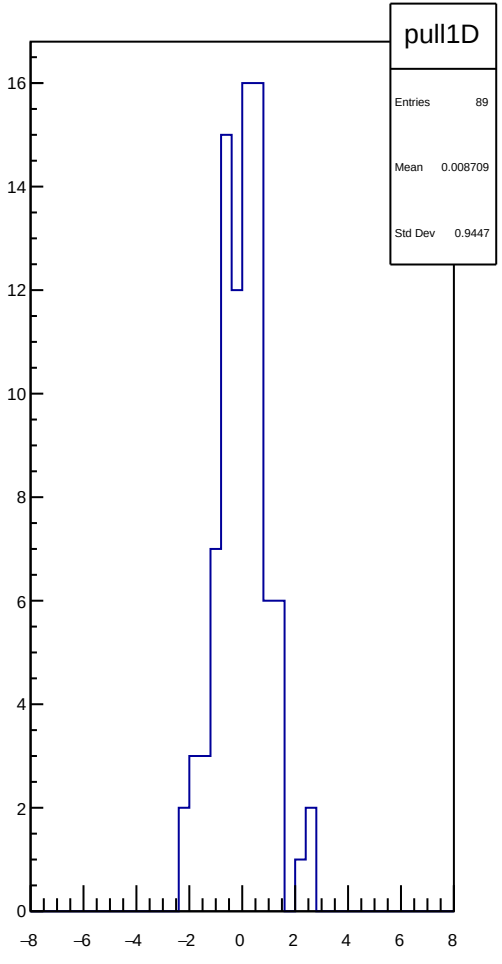

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 157.2 / 88
p0 1107 ± 0.8527
1150
1140
1130
1120
1110
1100
1090
1080

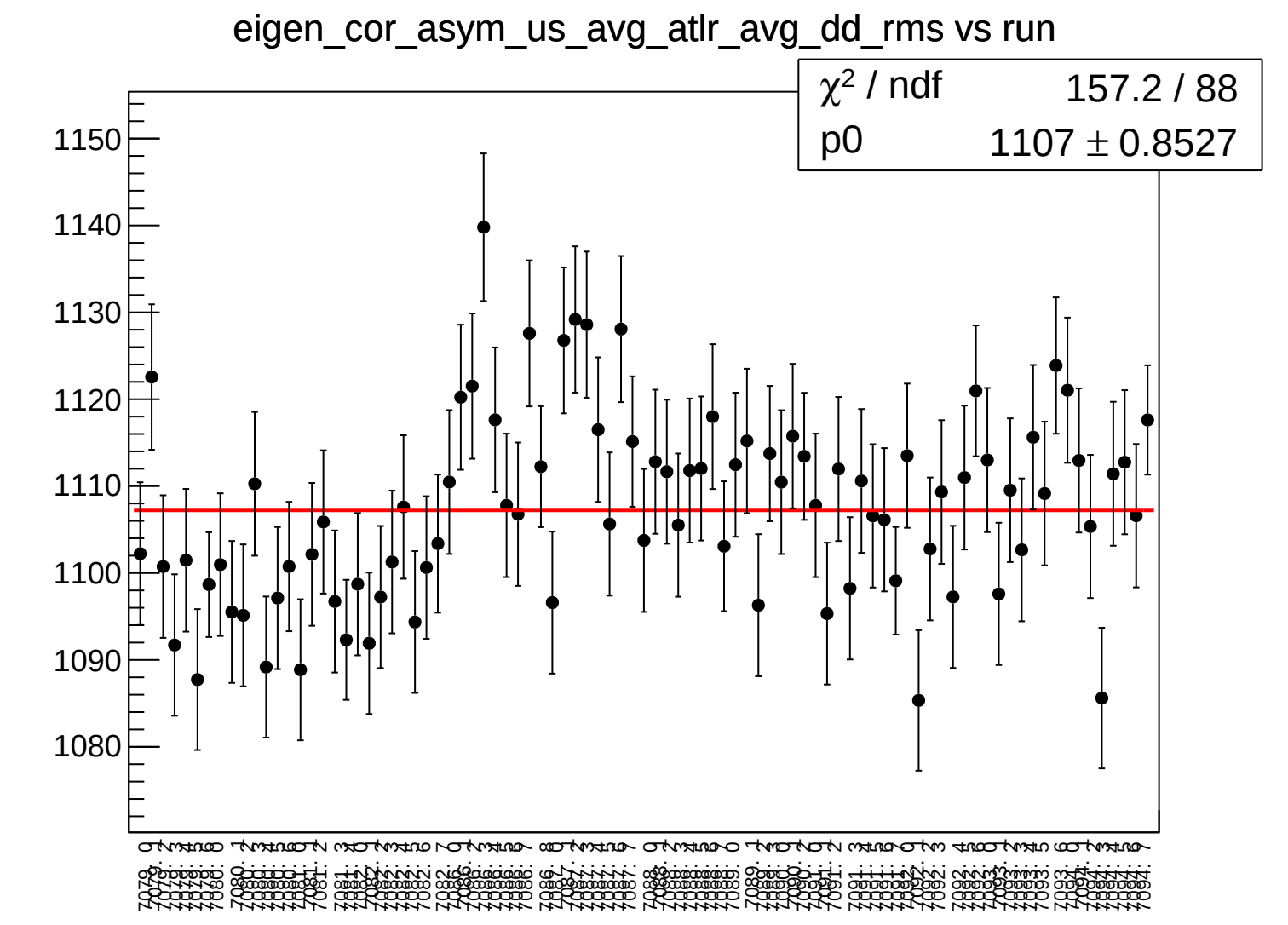

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 67.62 / 88
p0 1023 ± 4647
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −378.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

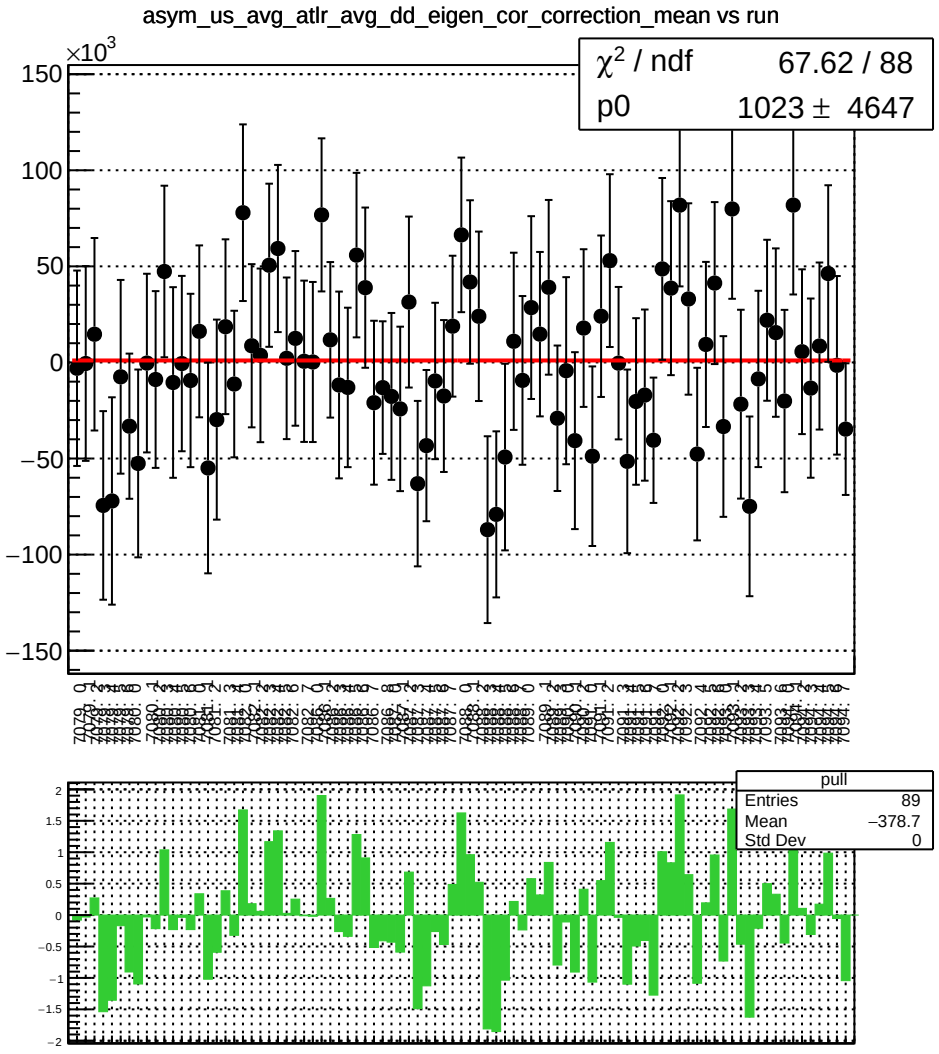

pull1D
Entries 89
Mean −0.003936
Std Dev 0.8716
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

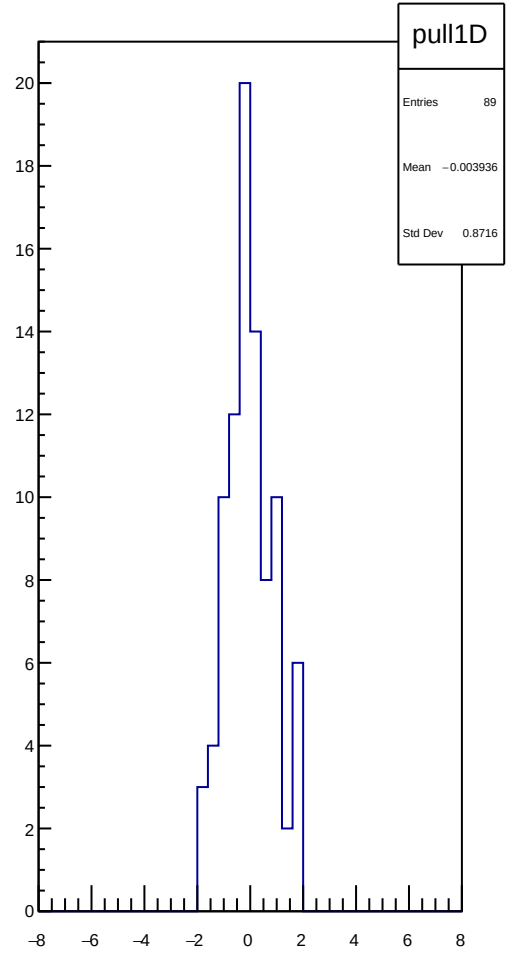

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 8903 / 88
p0 4256 ± 3.286
5200
5000
4800
4600
4400
4200
4000
3800
3600

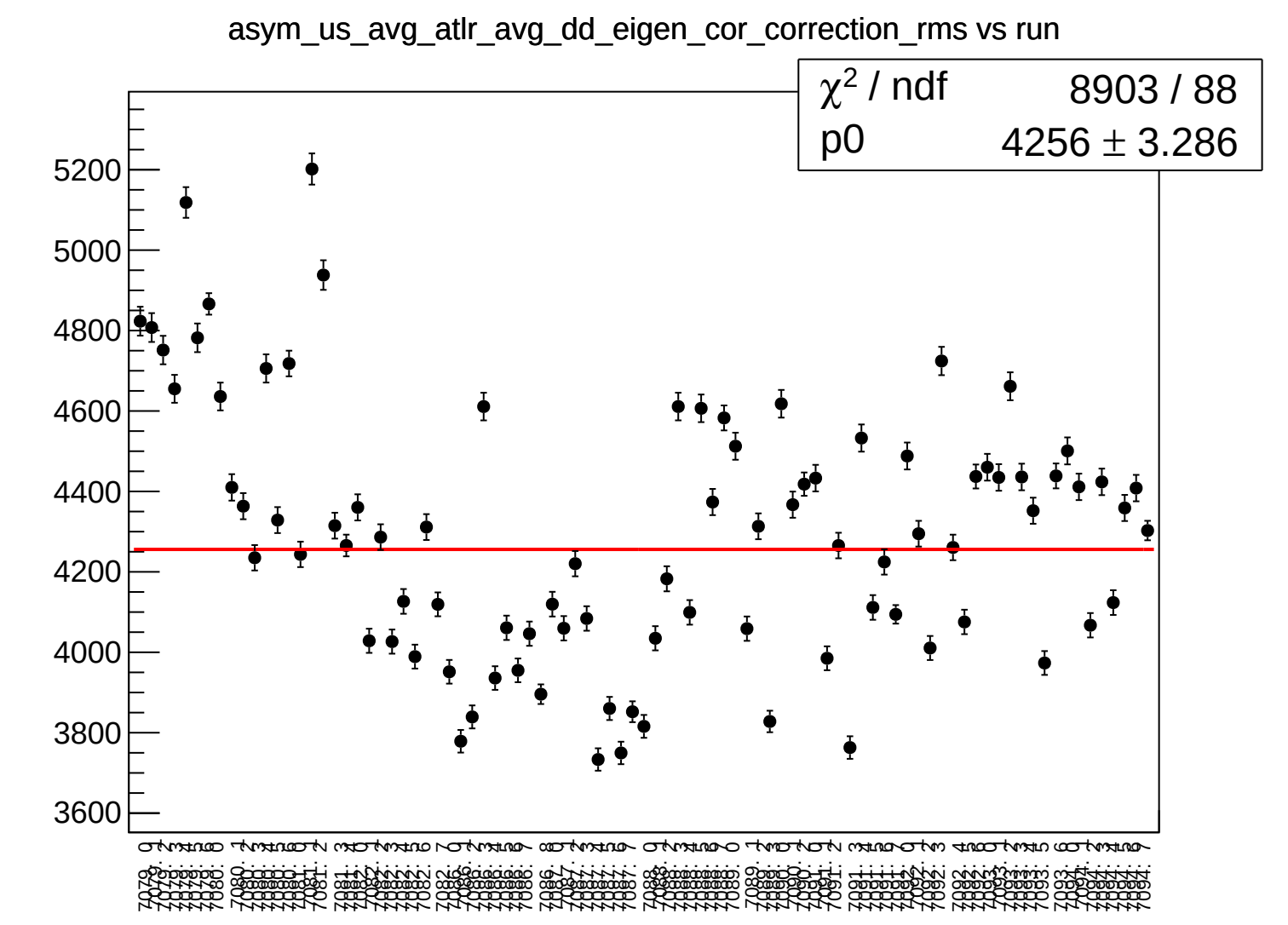

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 79.43 / 88
p0 864.9 ± 1206
pull
Entries 89
Mean −262
Std Dev 0

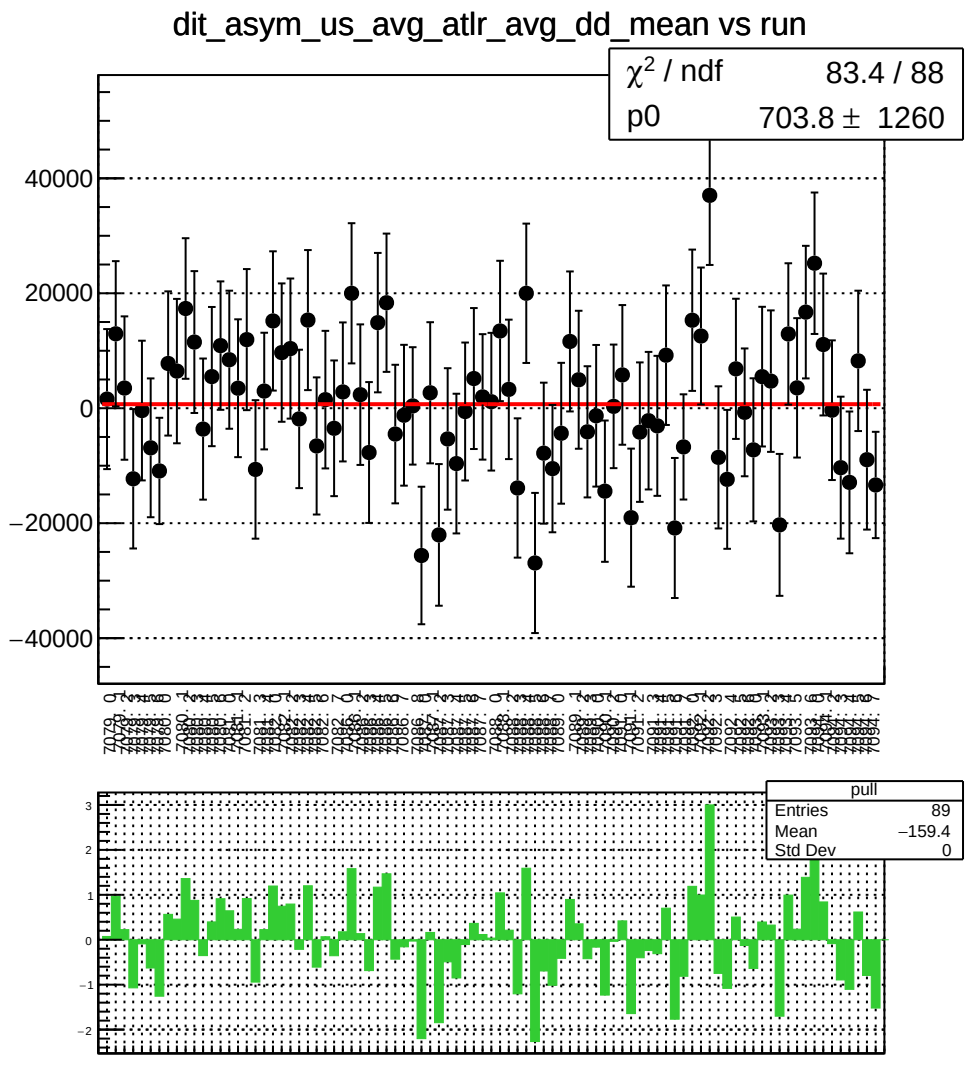

pull1D
Entries 89
Mean 0.008709
Std Dev 0.9447

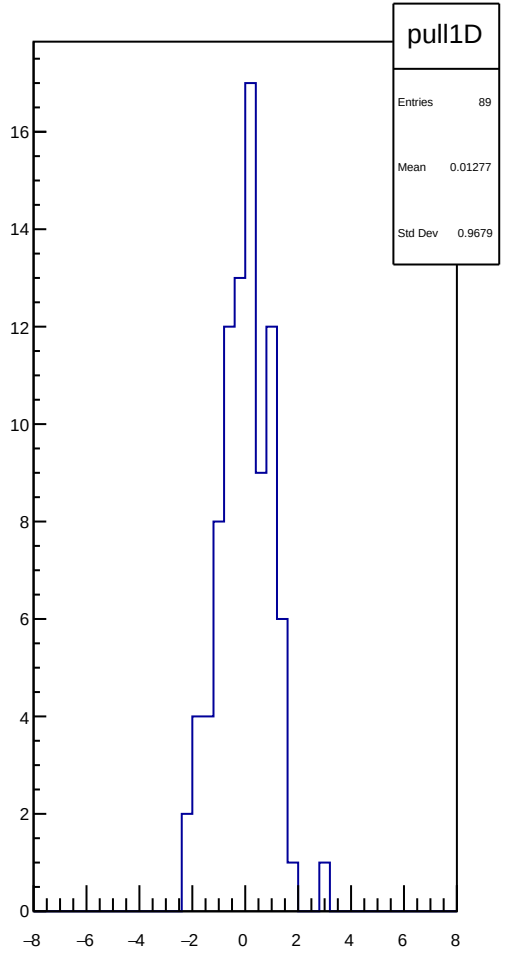

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 157.2 / 88
p0 1107 ± 0.8527
1150
1140
1130
1120
1110
1100
1090
1080

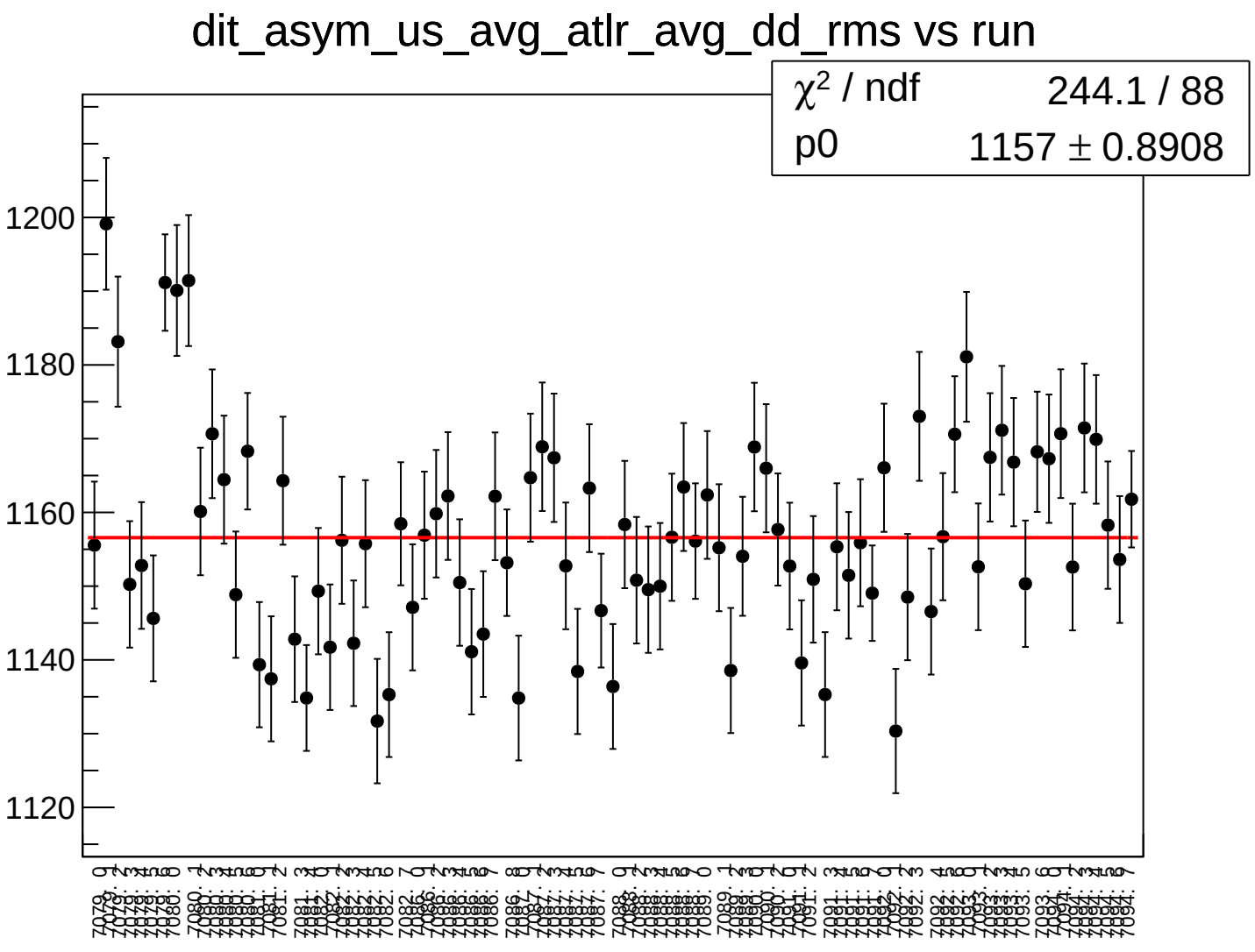

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.62 / 88
p0 1023 ± 4647
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −378.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

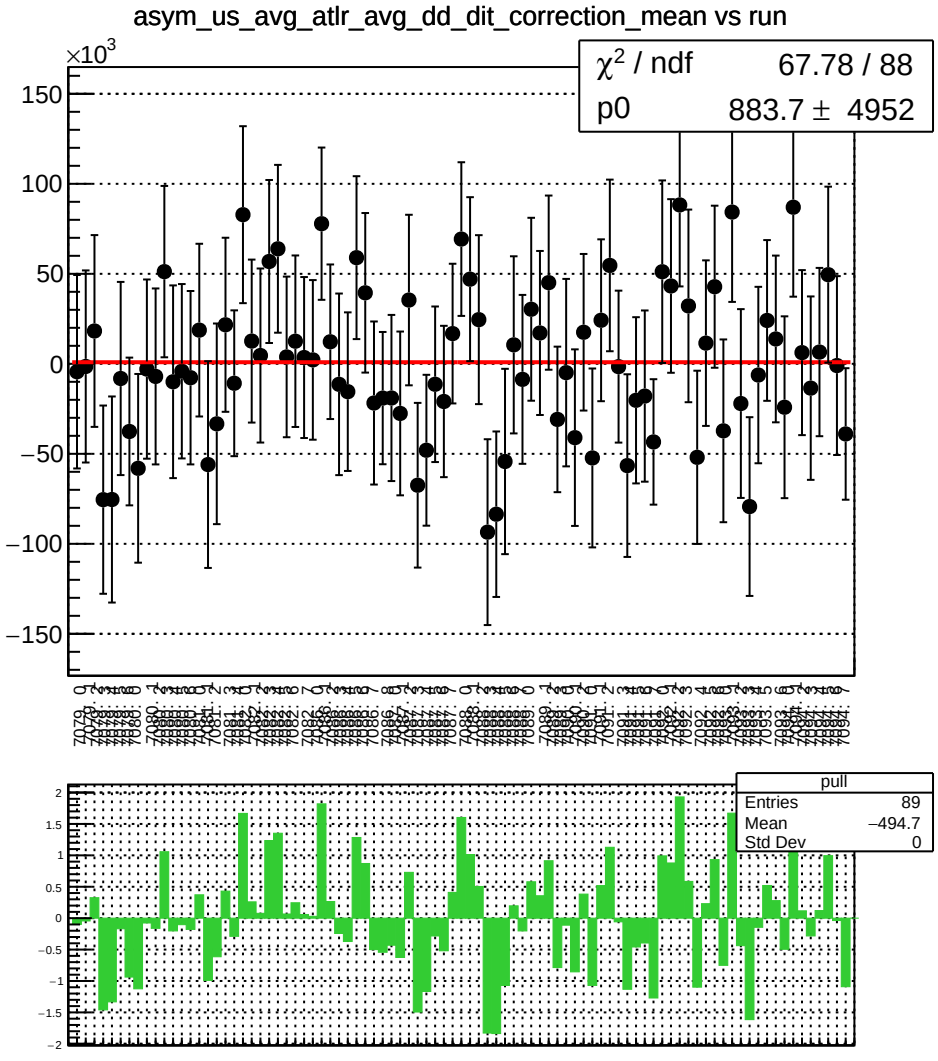

pull1D
Entries 89
Mean −0.003936
Std Dev 0.8716
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

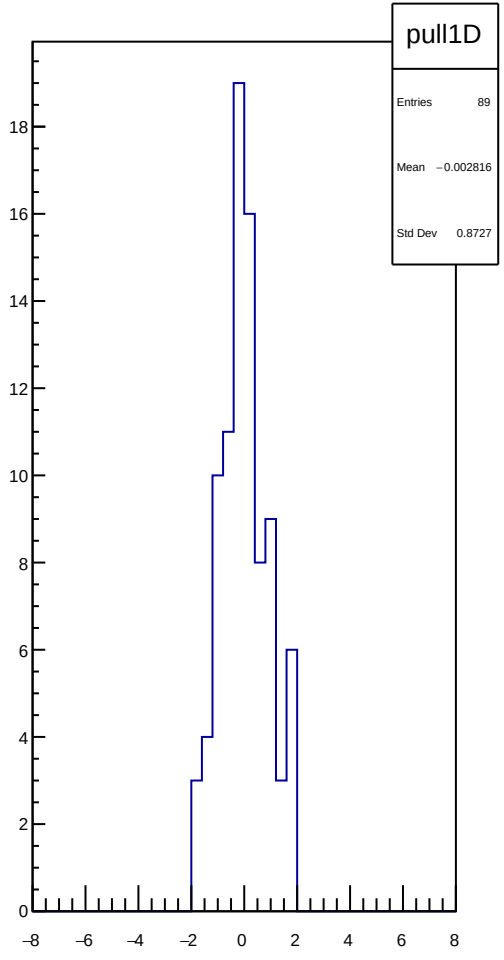

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8903 / 88
p0 4256 ± 3.286
5200
5000
4800
4600
4400
4200
4000
3800
3600

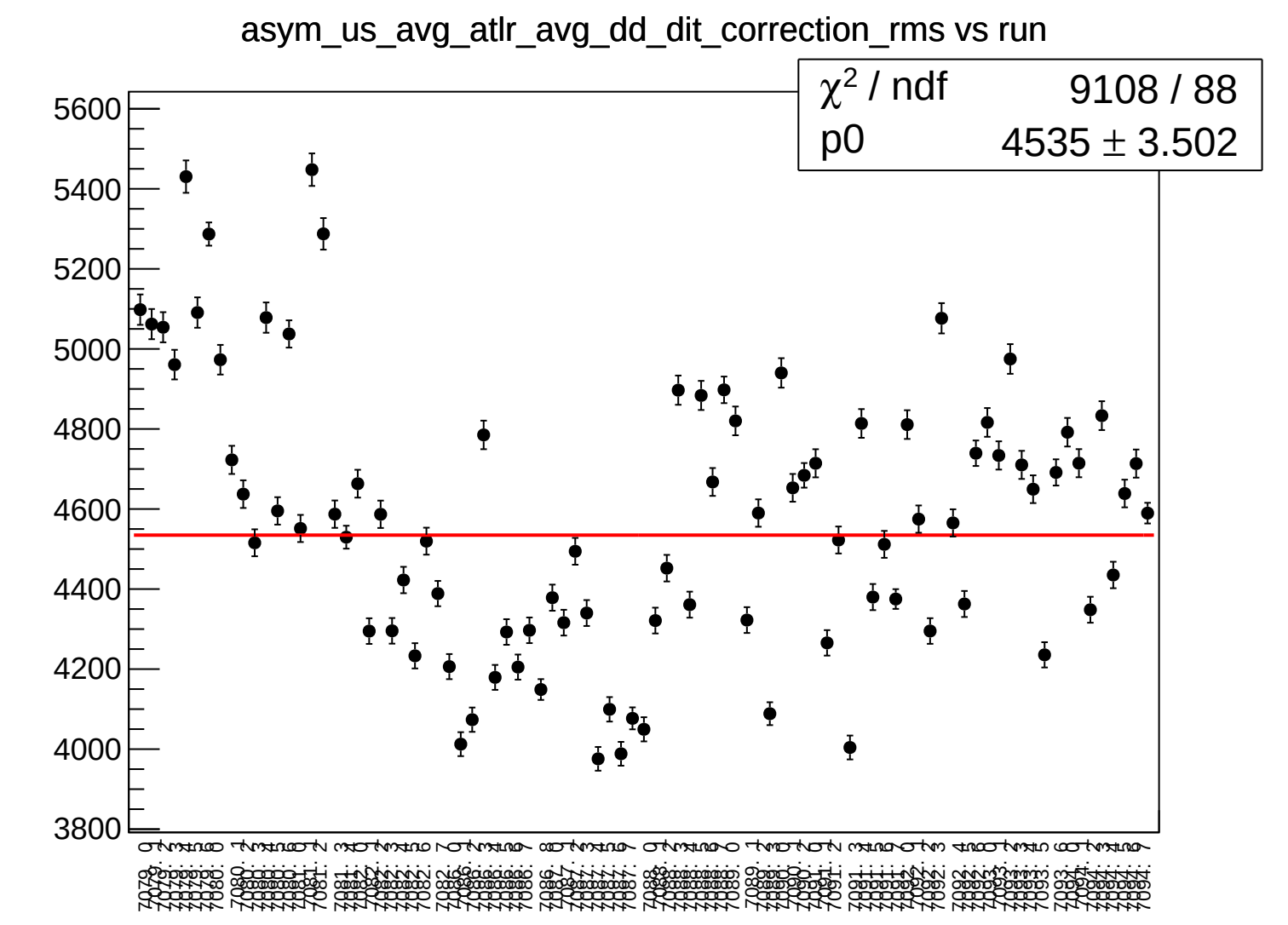

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 83.4 / 88
p0 703.8 ± 1260
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −159.4
Std Dev 0
3
2
1
0
−1
−2

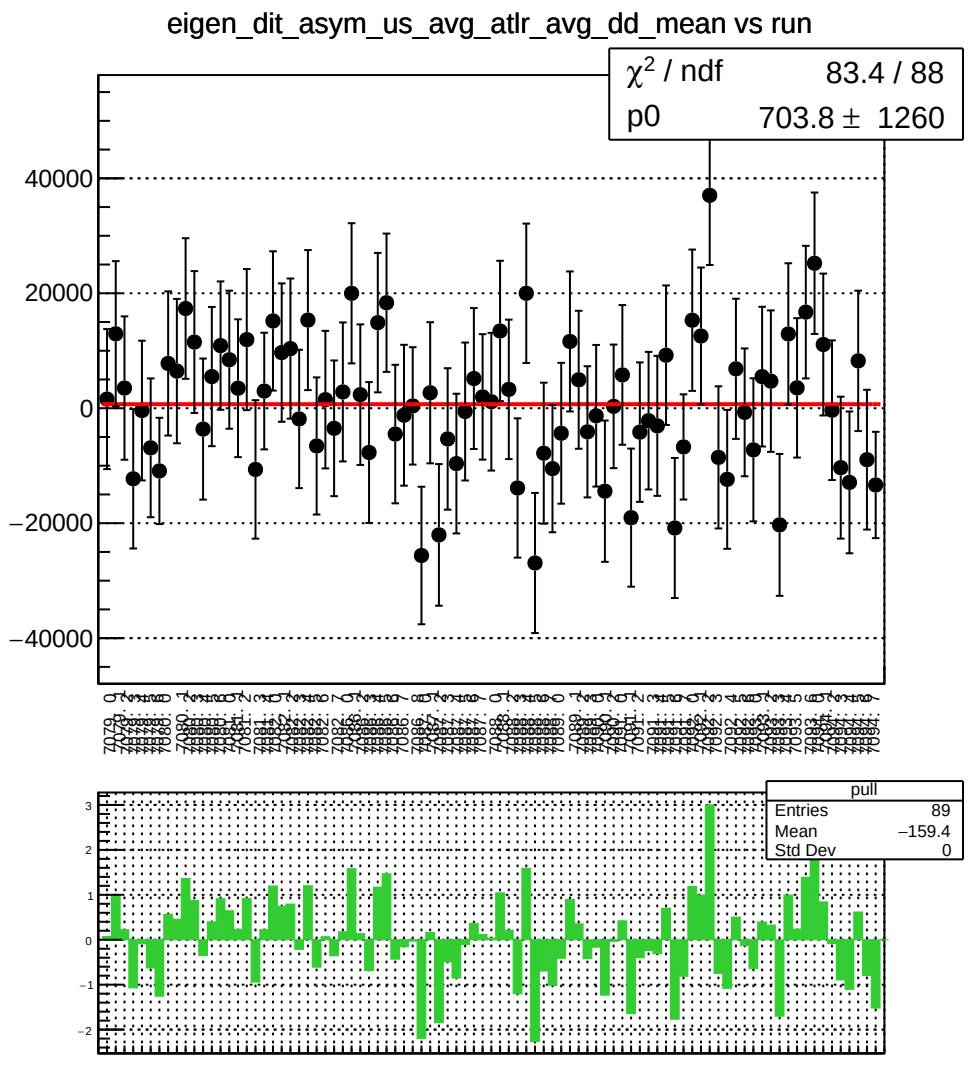

pull1D
Entries 89
Mean 0.01277
Std Dev 0.9679
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

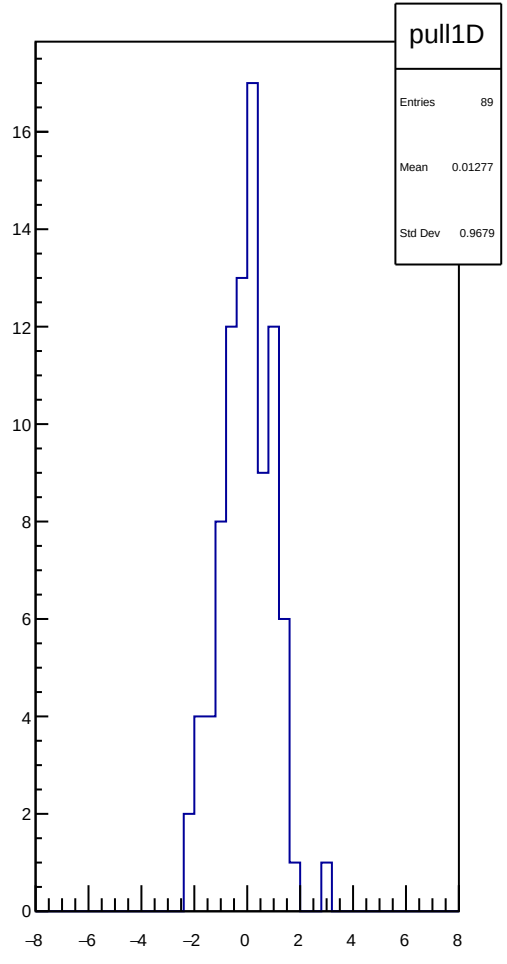

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 244.1 / 88
p0 1157 ± 0.8908
1200
1180
1160
1140
1120

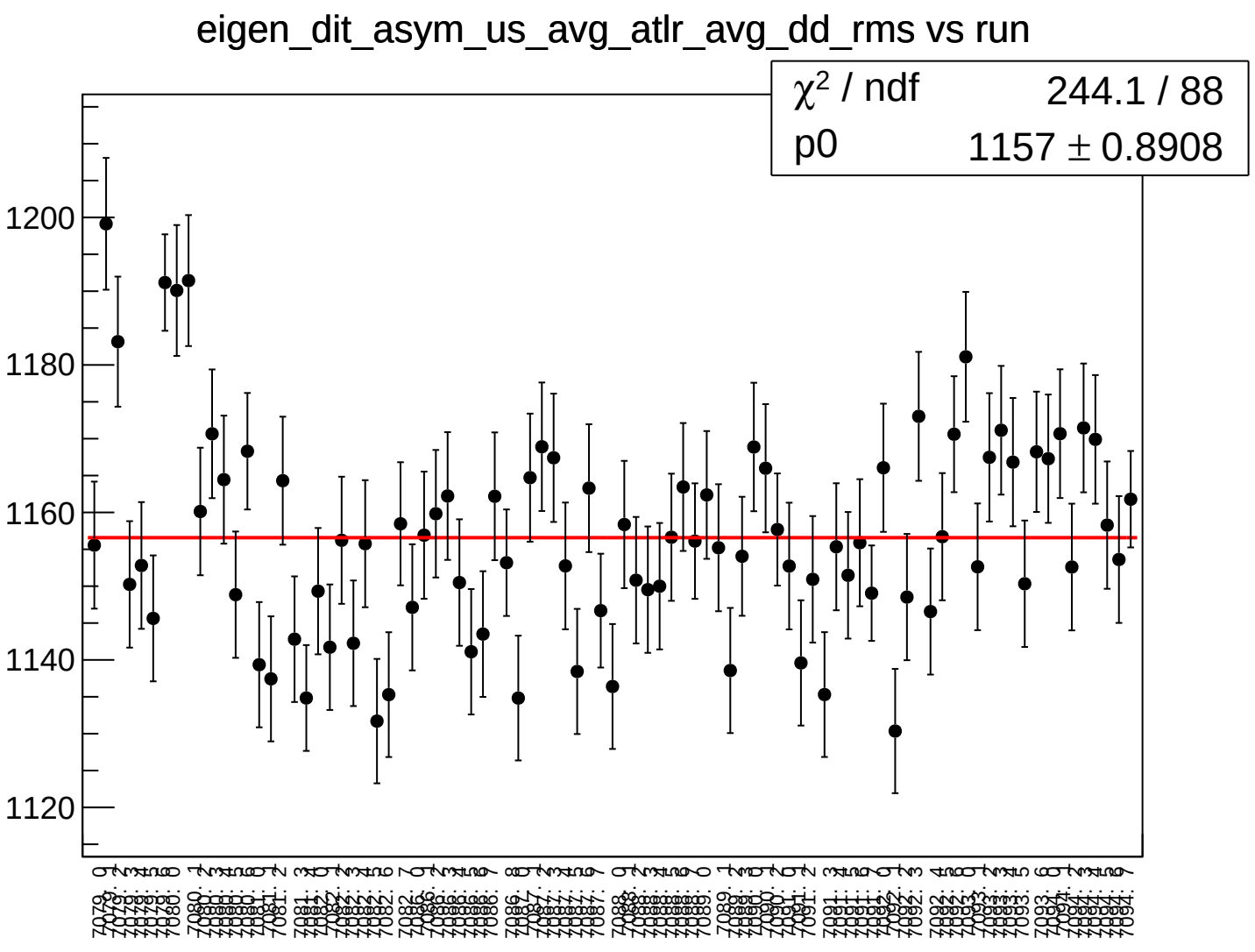

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 67.78 / 88
p0 883.7 ± 4952
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −494.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

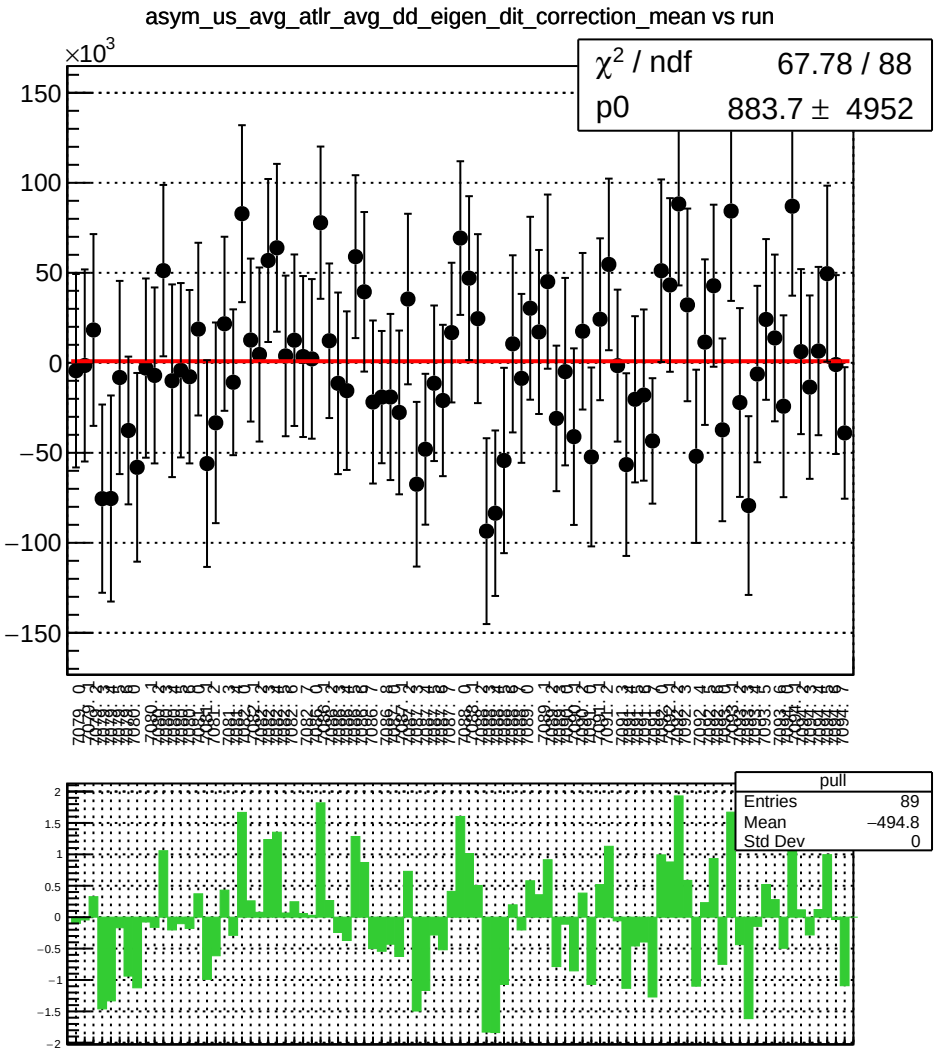

pull1D
Entries 89
Mean −0.002816
Std Dev 0.8727
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

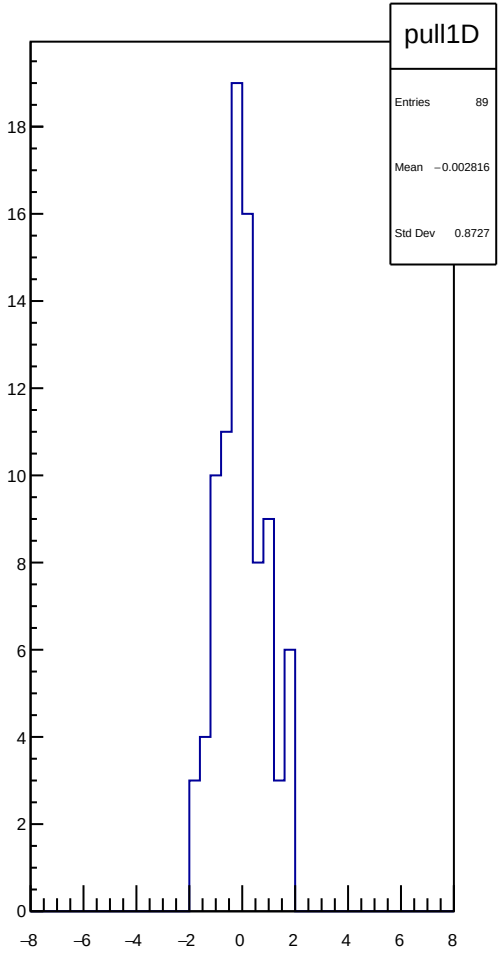

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 9108 / 88
p0 4535 ± 3.502
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

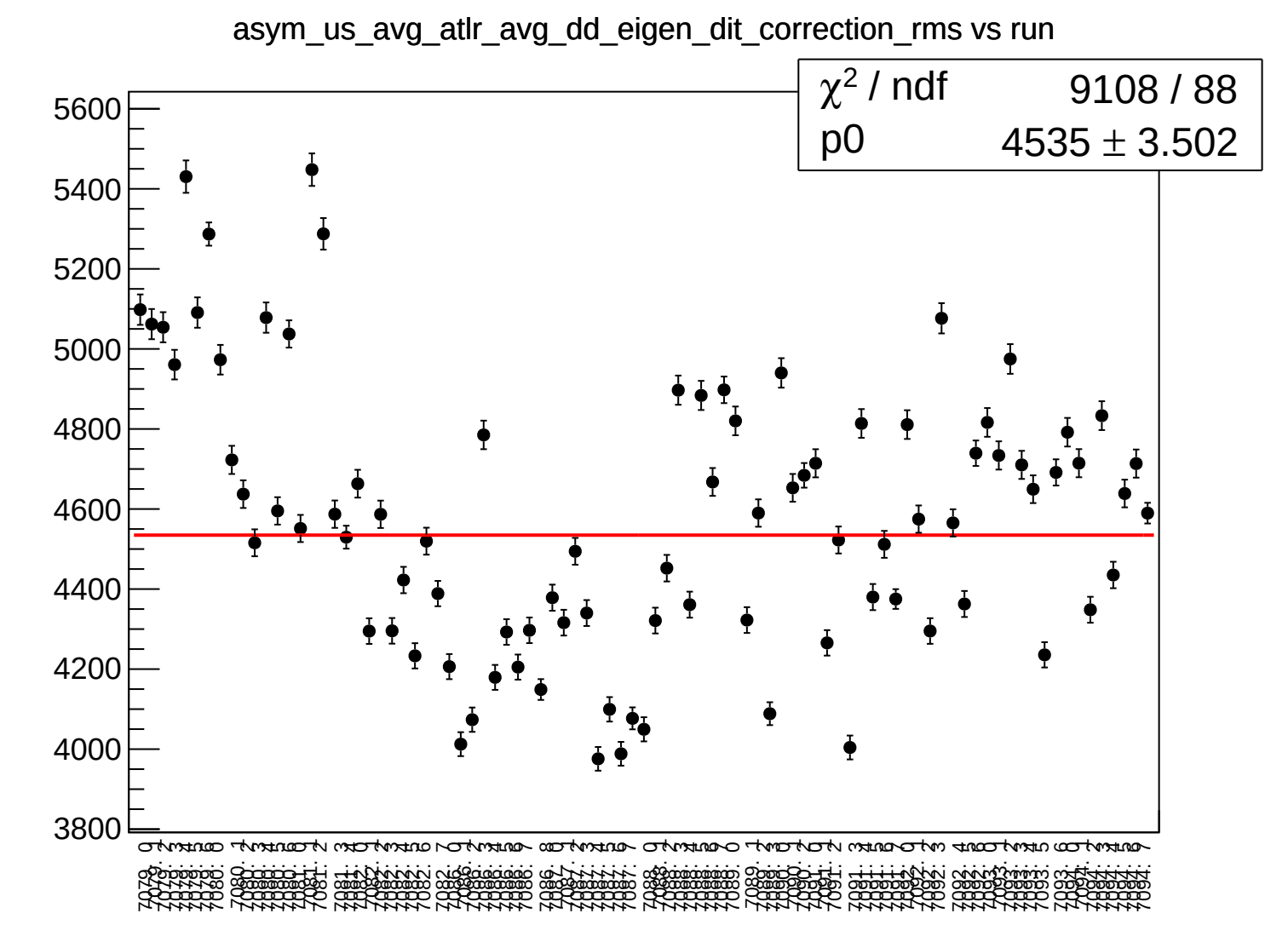

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 83.4 / 88
p0 703.8 ± 1260
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −159.4
Std Dev 0
3
2
1
0
−1
−2

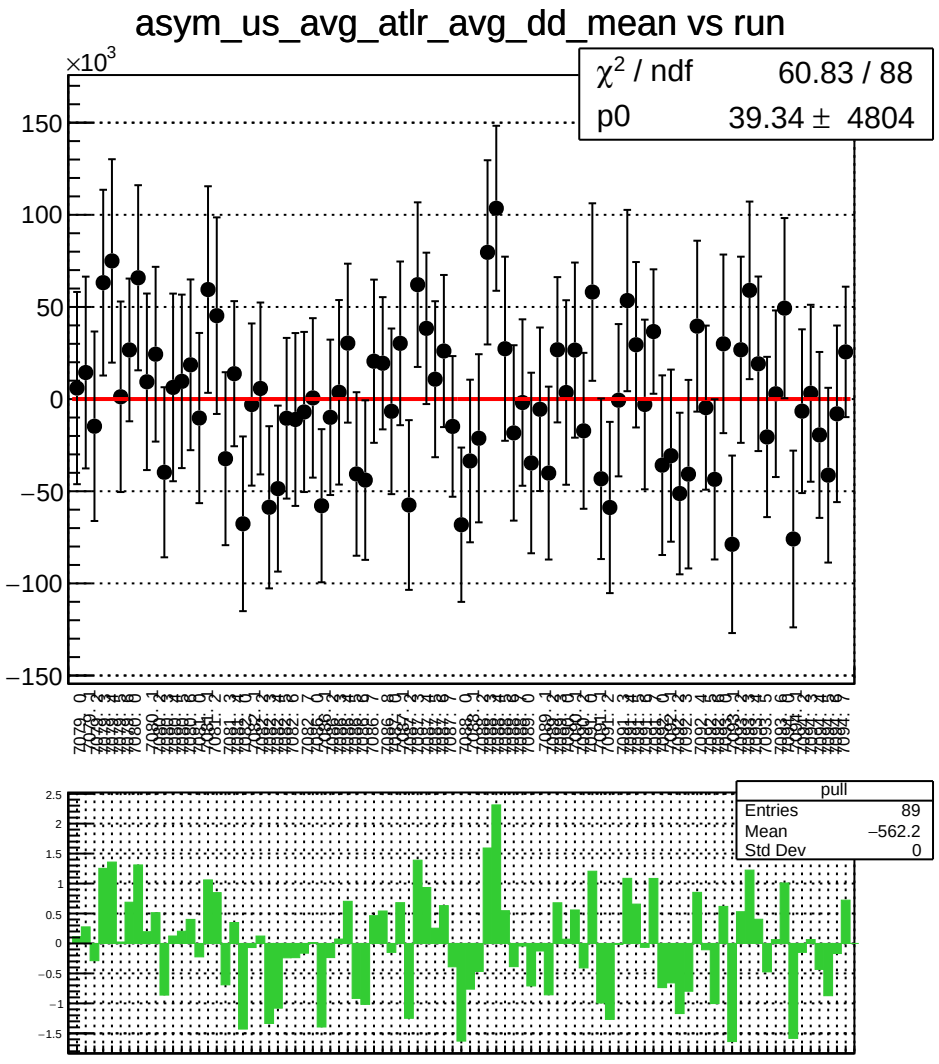

pull1D
Entries 89
Mean 0.01277
Std Dev 0.9679
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

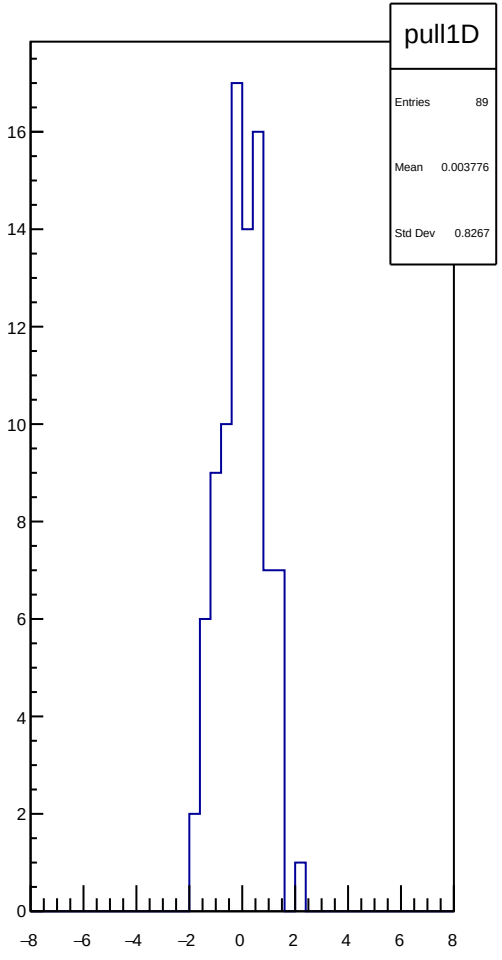

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 244.1 / 88
p0 1157 ± 0.8908
1200
1180
1160
1140
1120

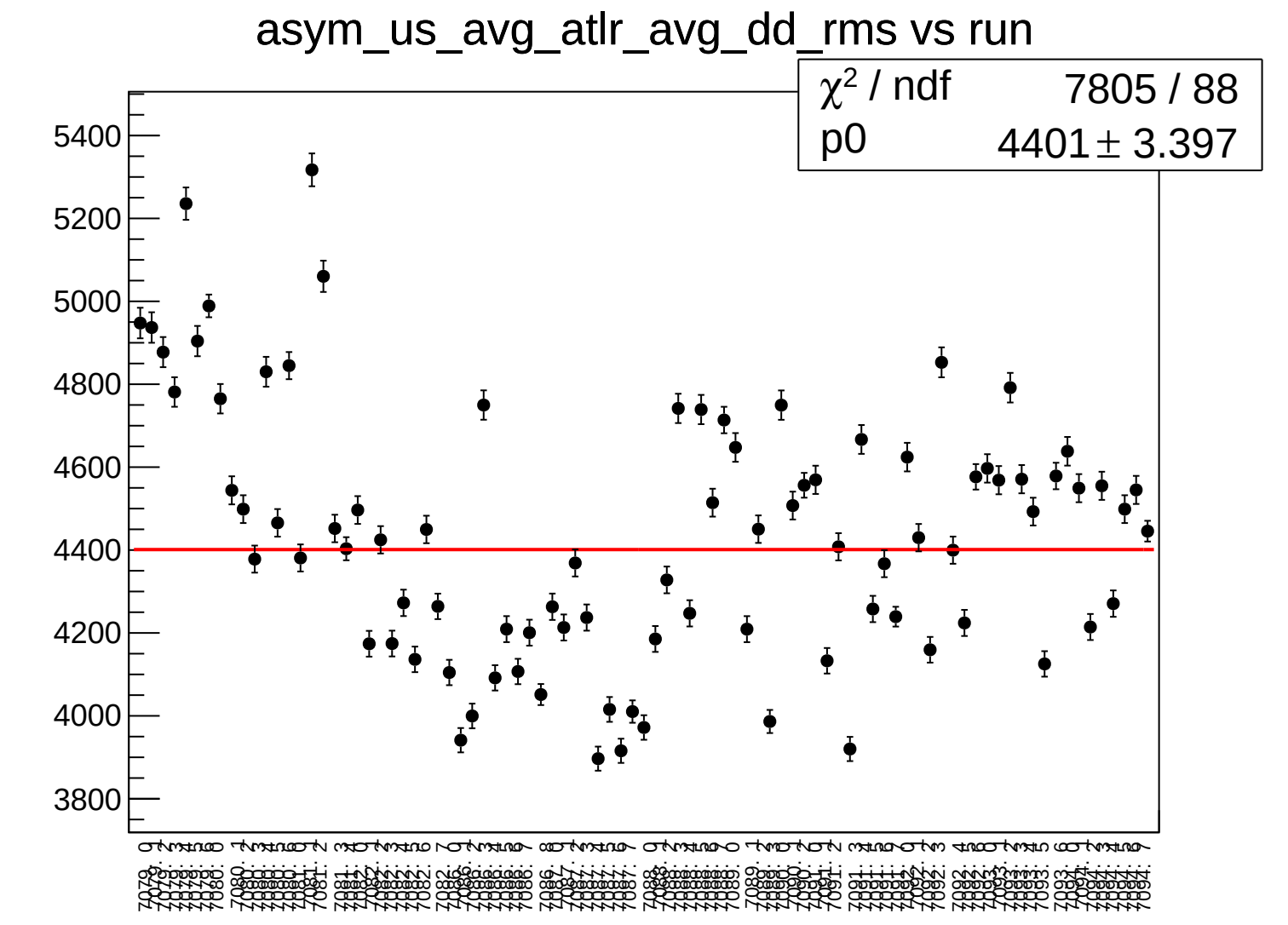

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.78 / 88
p0 883.7 ± 4952
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −494.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

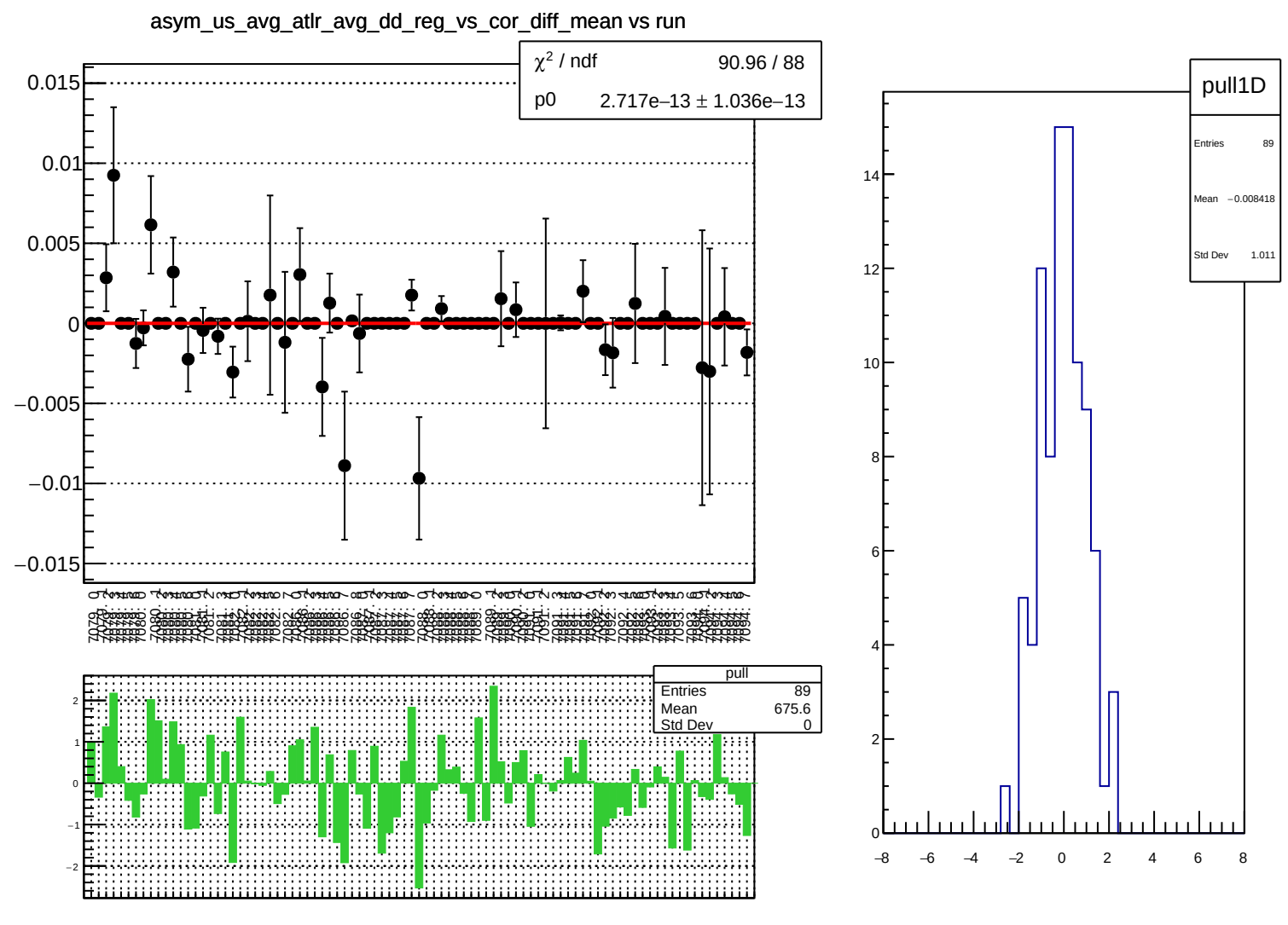

pull1D
Entries 89
Mean −0.002816
Std Dev 0.8727
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

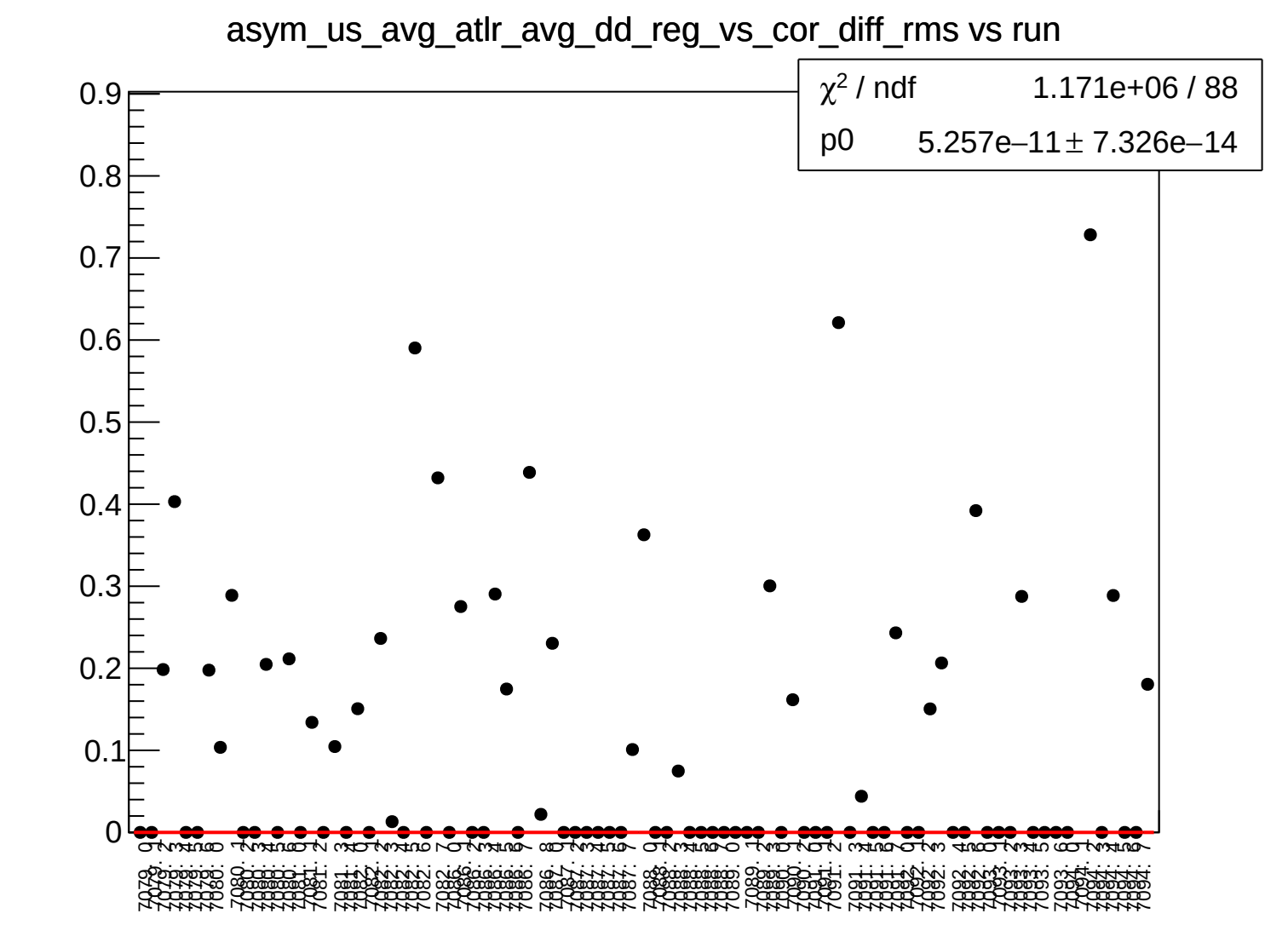

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 9108 / 88
p0 4535 ± 3.502
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

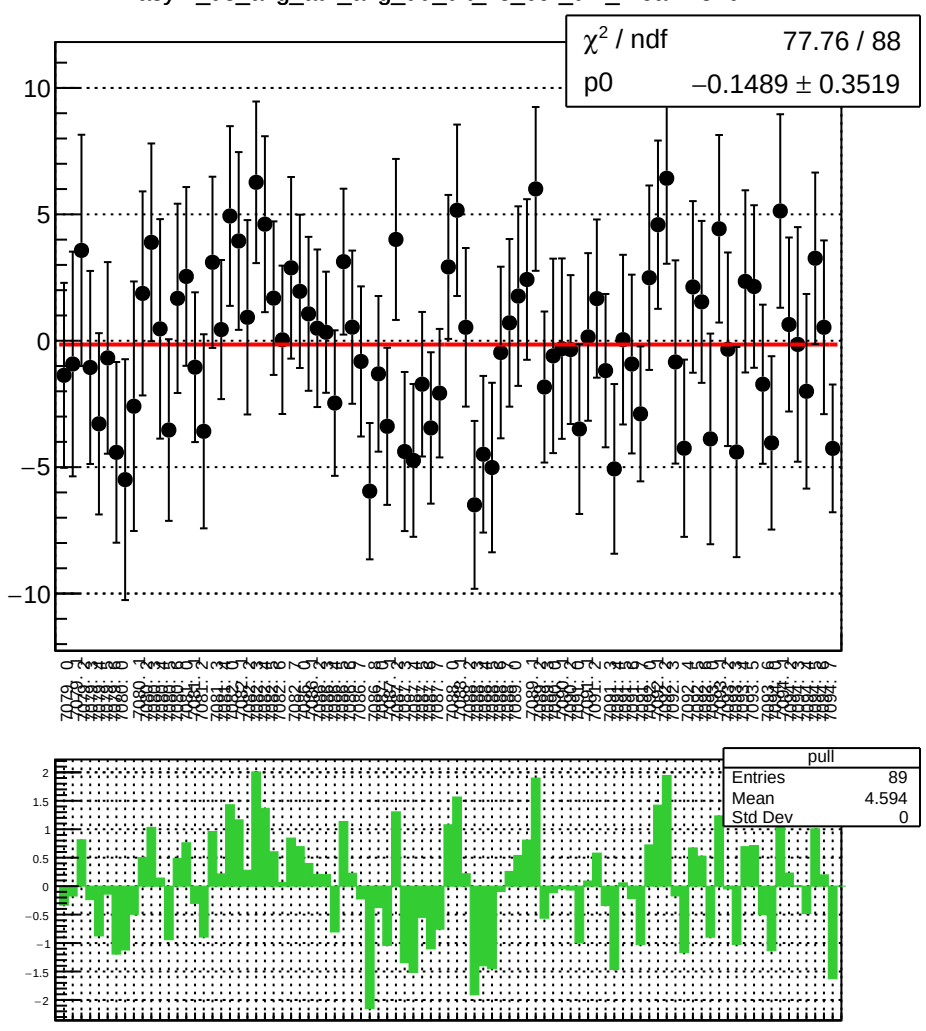

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 60.83 / 88
p0 39.34 ± 4804
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −562.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

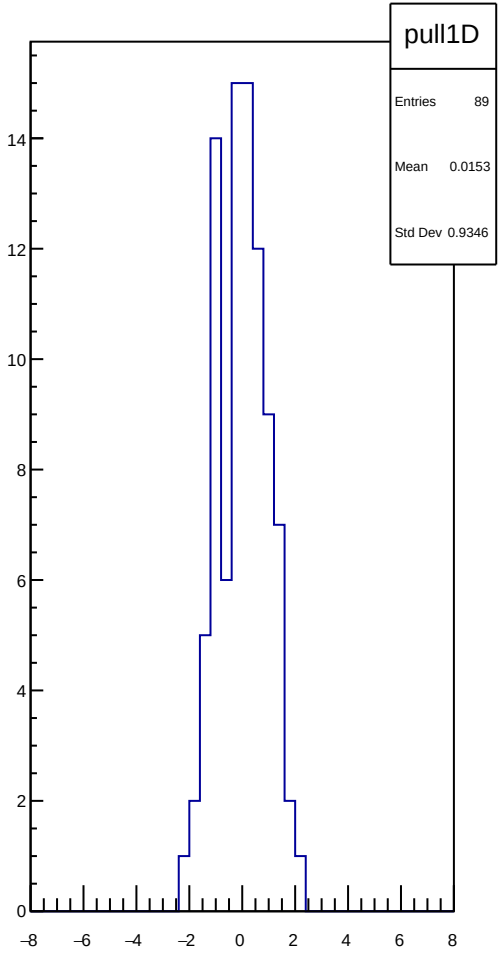

pull1D
Entries 89
Mean 0.003776
Std Dev 0.8267
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

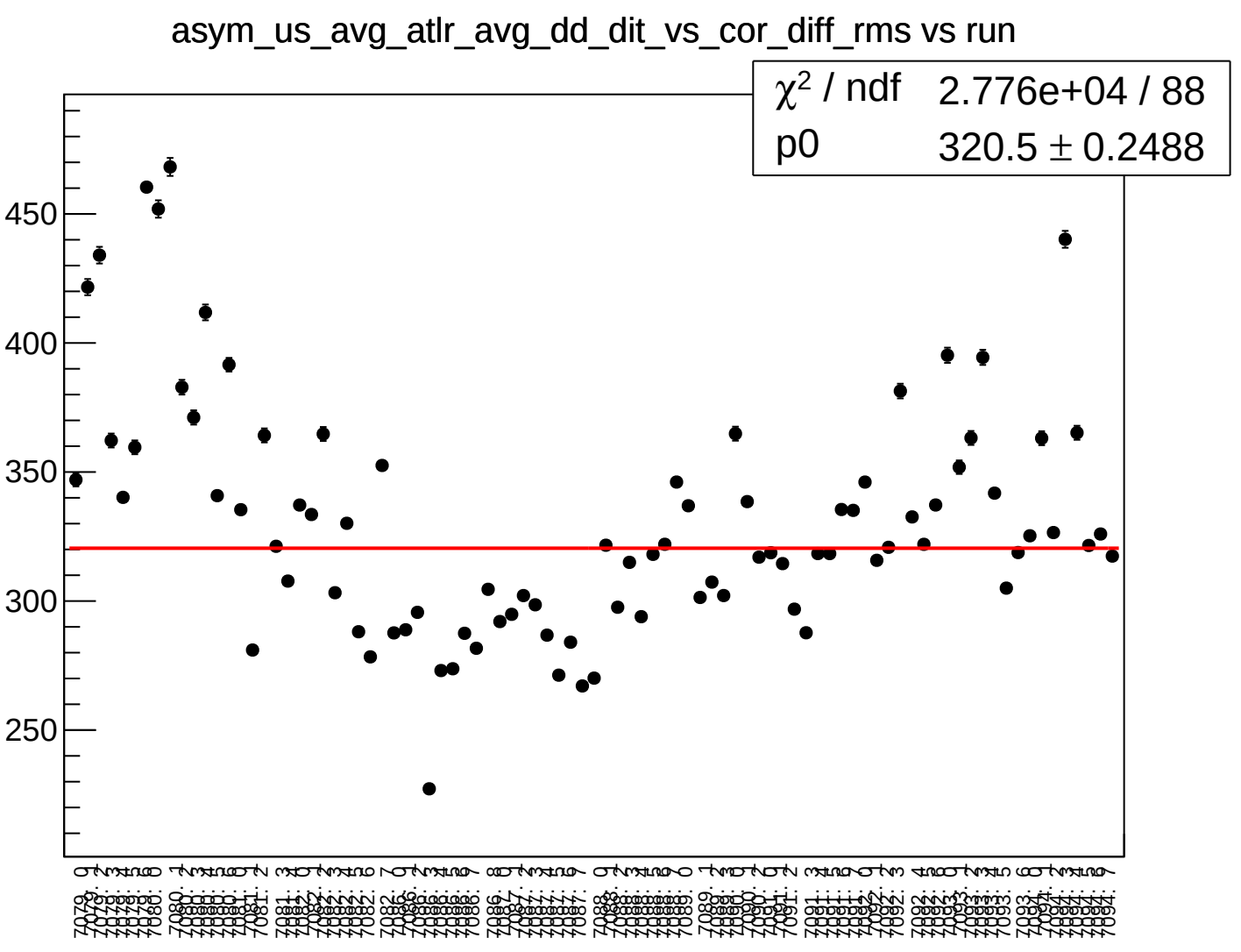

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 7805 / 88
p0 4401 ± 3.397
5400
5200
5000
4800
4600
4400
4200
4000
3800

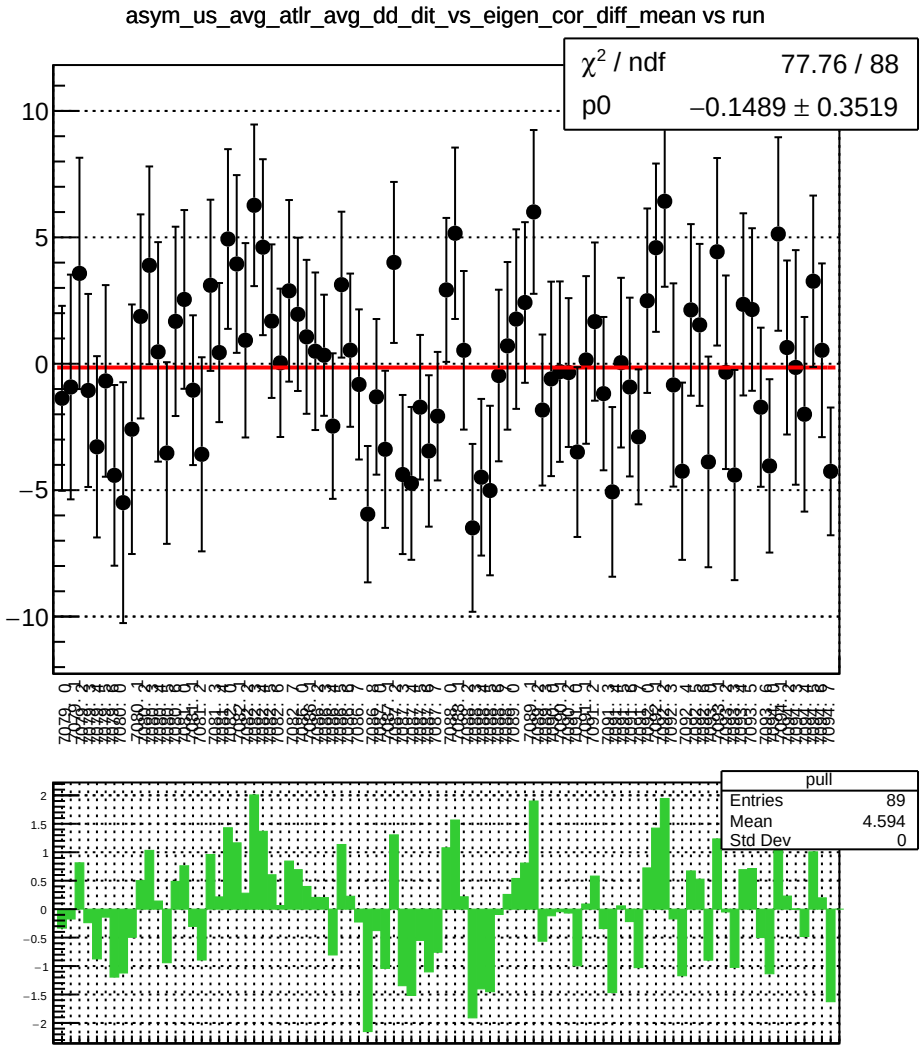

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.96 / 88
p0 2.717e−13 ± 1.036e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 675.6
Std Dev 0
pull1D
Entries 89
Mean −0.008418
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

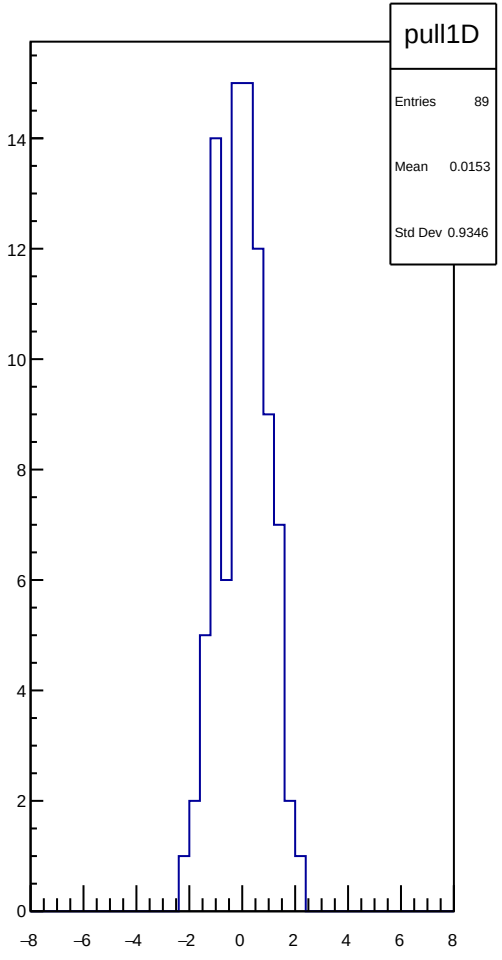

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.171e+06 / 88
p0 5.257e−11 ± 7.326e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

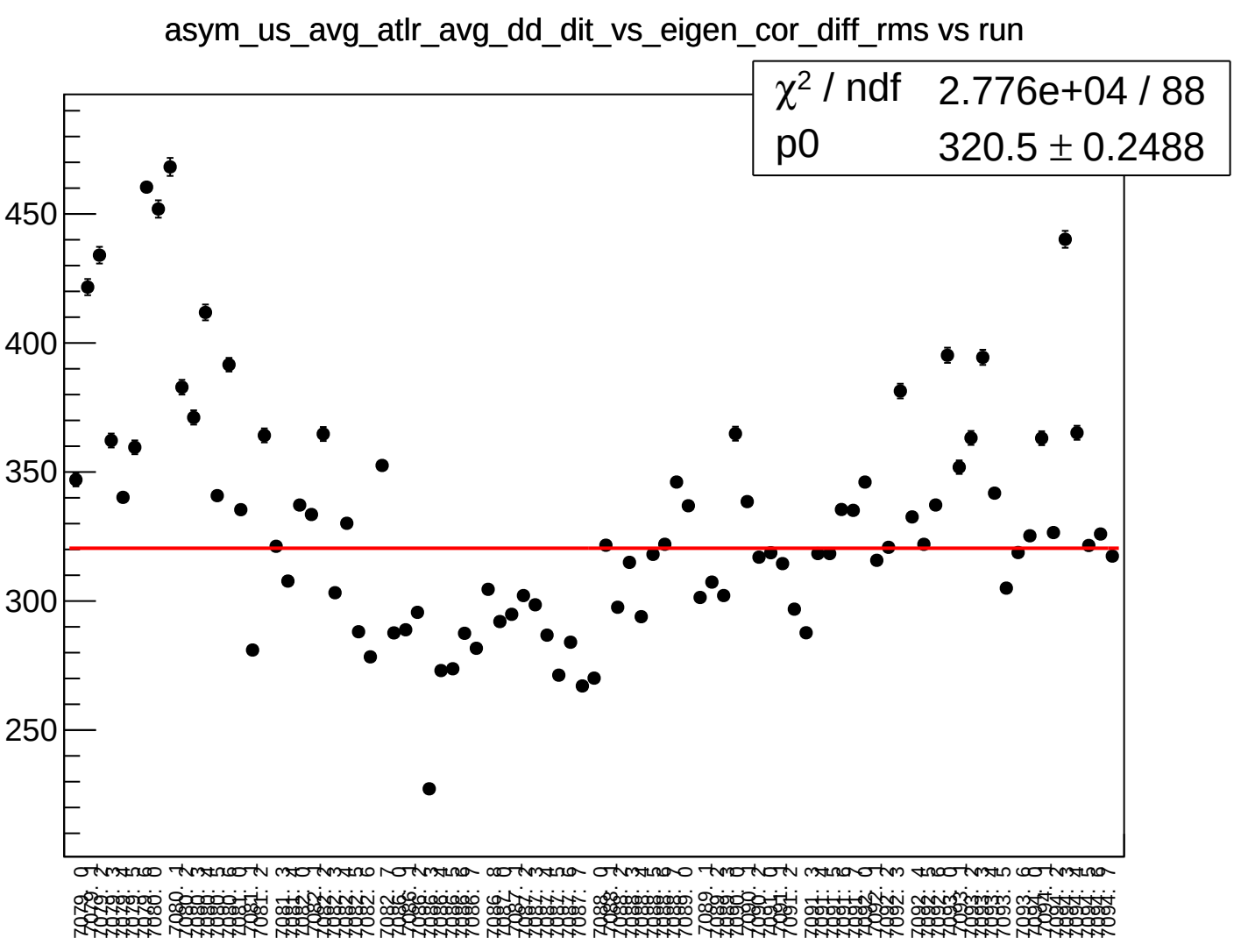

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.76 / 88
p0 −0.1489 ± 0.3519
pull
Entries 89
Mean 4.594
Std Dev 0

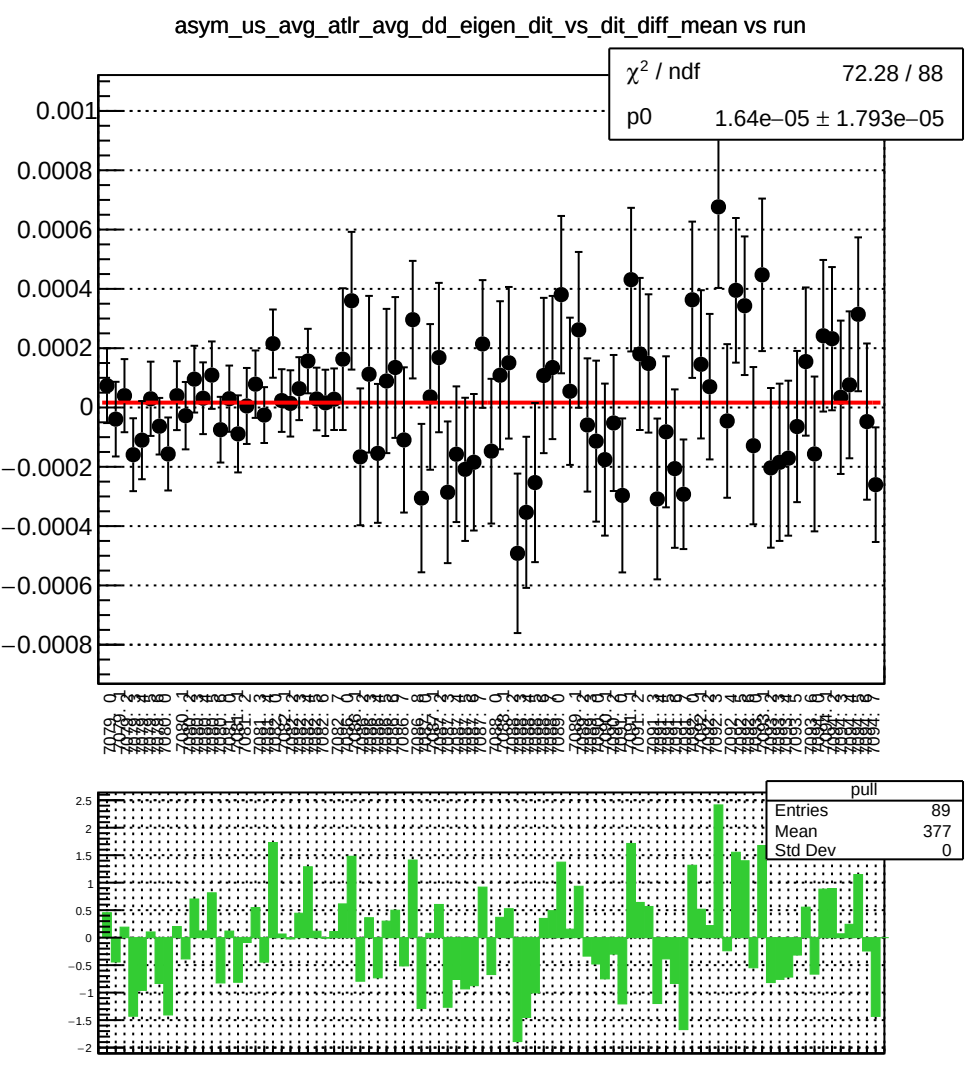

pull1D
Entries 89
Mean 0.0153
Std Dev 0.9346

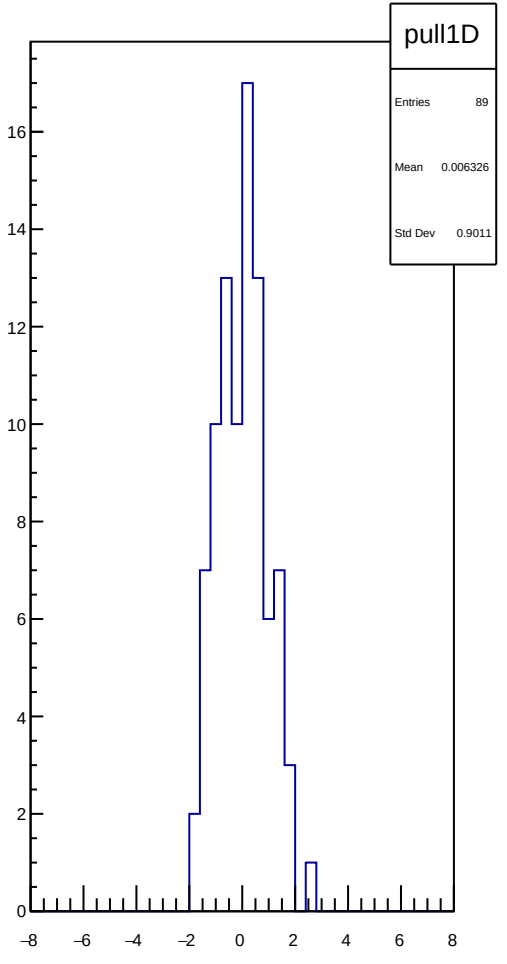

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 88
p0 320.5 ± 0.2488
450
400
350
300
250

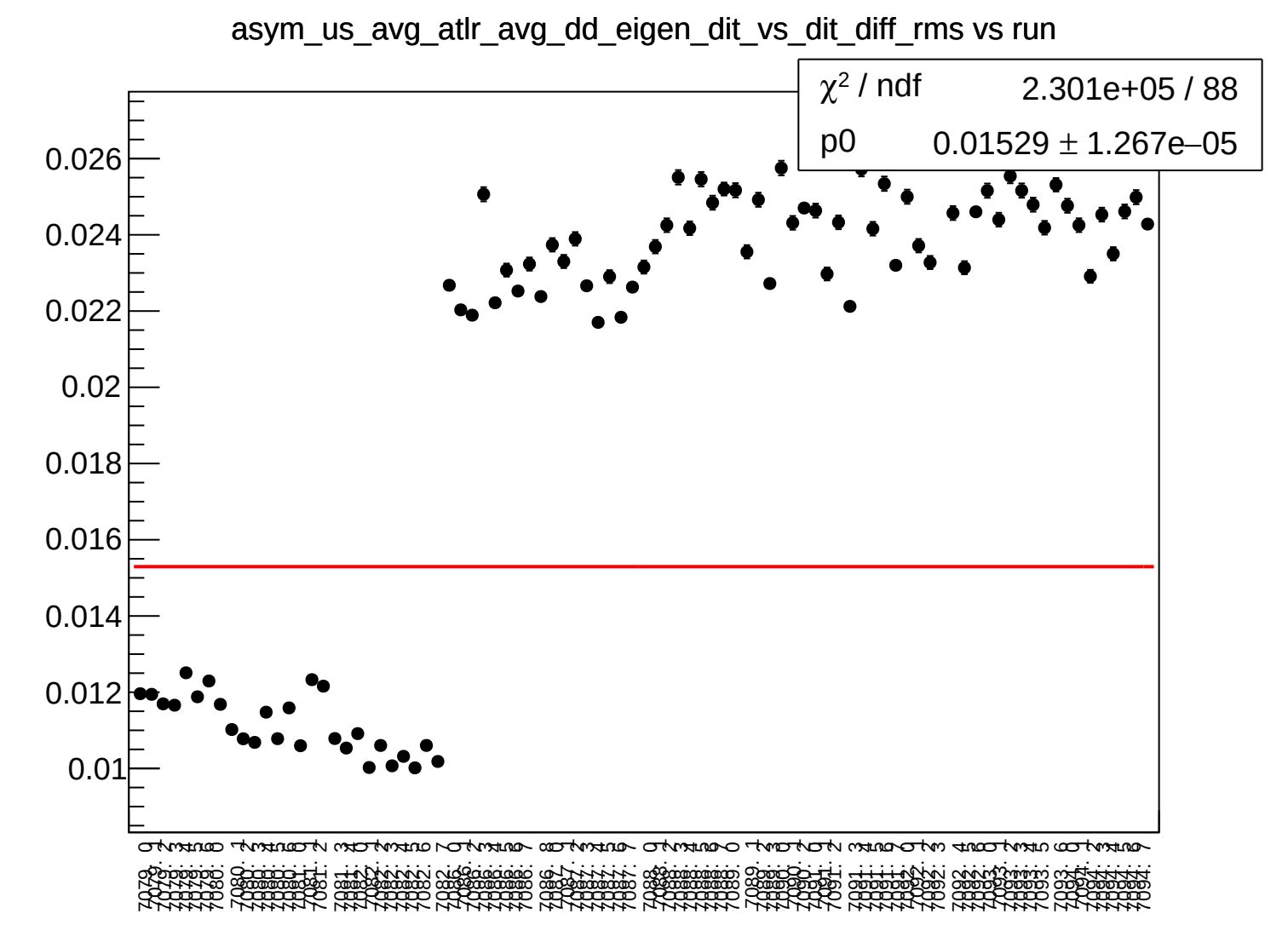

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.76 / 88
p0 −0.1489 ± 0.3519
pull
Entries 89
Mean 4.594
Std Dev 0

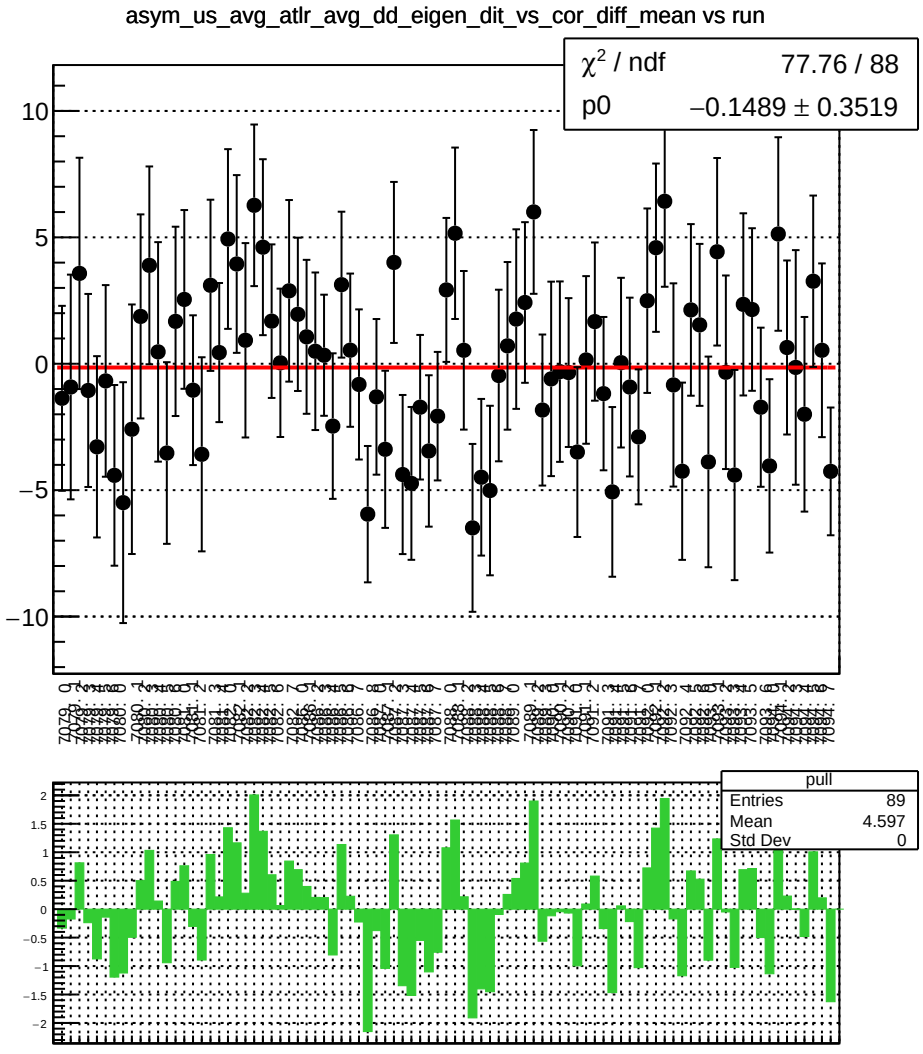

pull1D
Entries 89
Mean 0.0153
Std Dev 0.9346

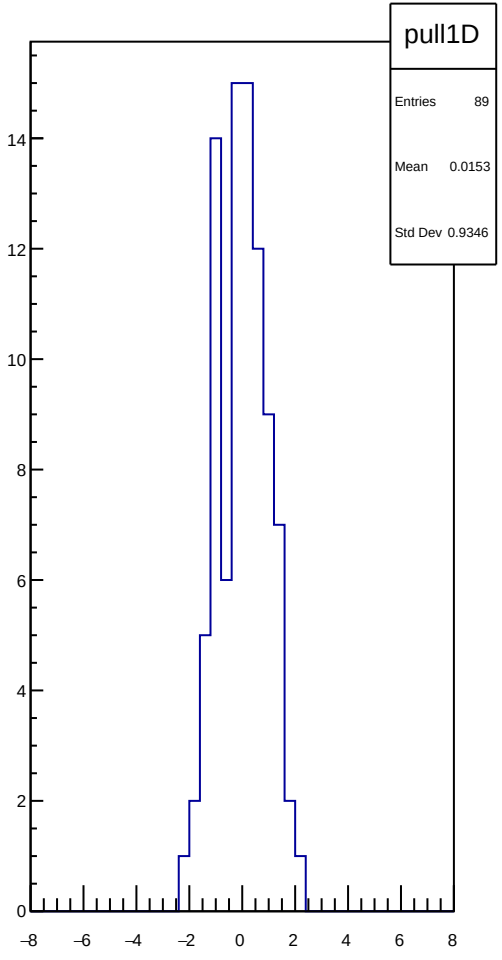

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 88
p0 320.5 ± 0.2488
450
400
350
300
250

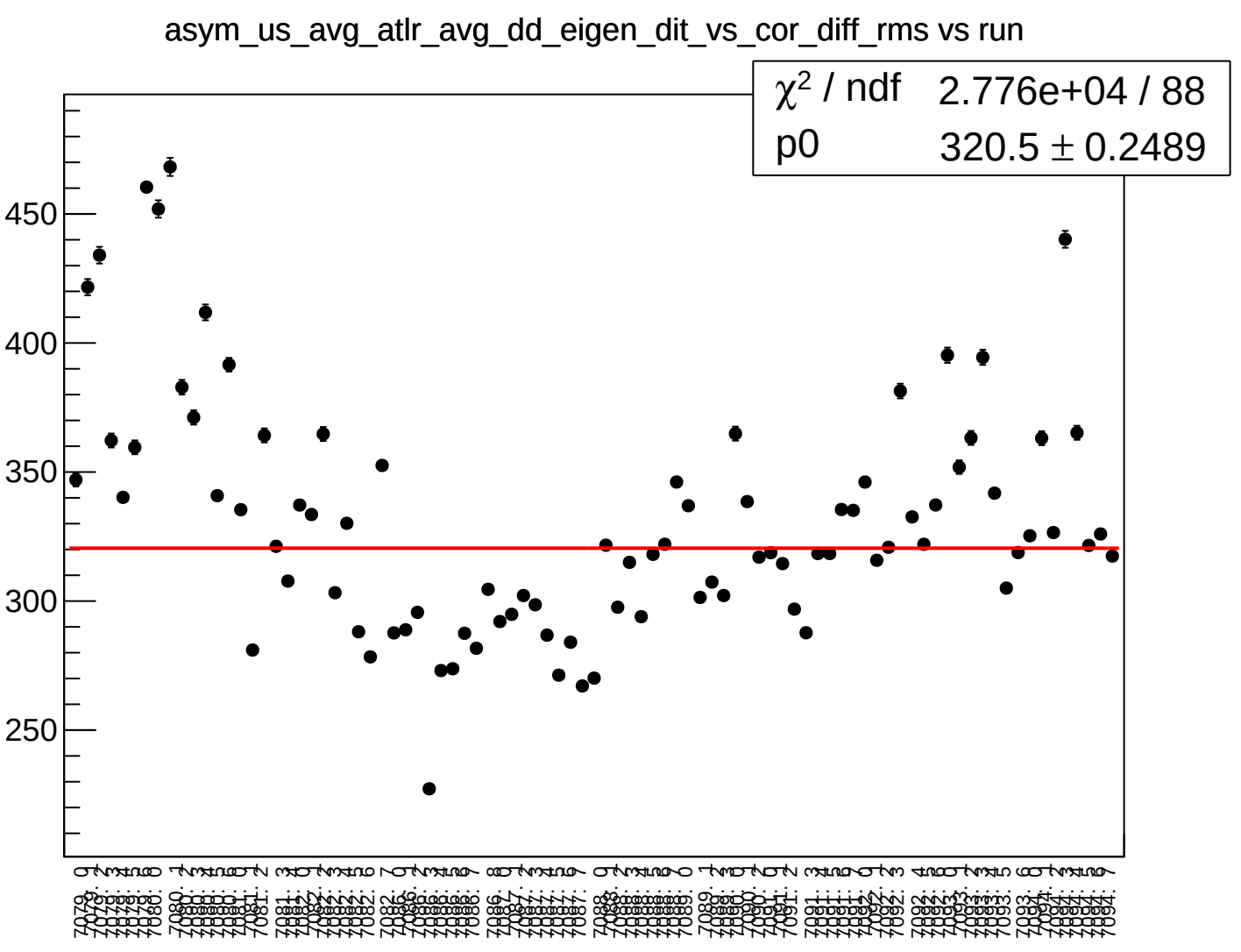

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.28 / 88
p0 1.64e−05 ± 1.793e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 89
Mean 377
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

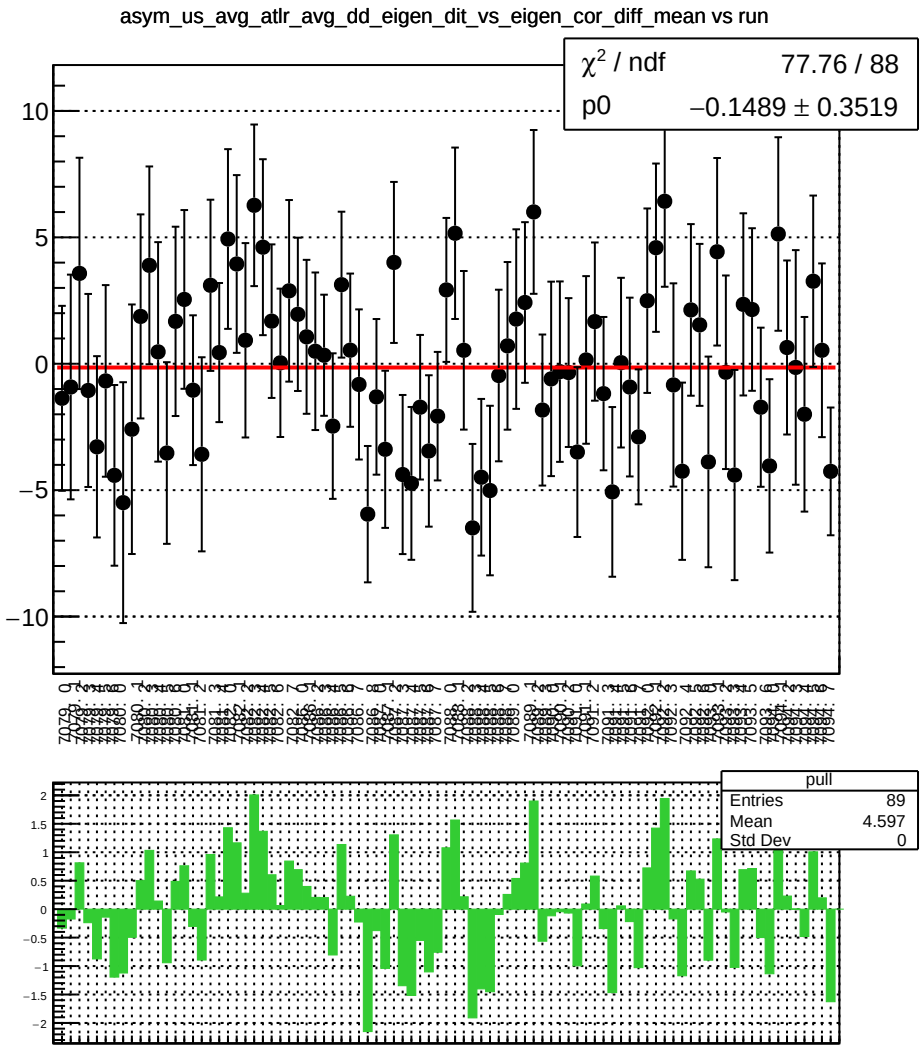

pull1D
Entries 89
Mean 0.006326
Std Dev 0.9011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

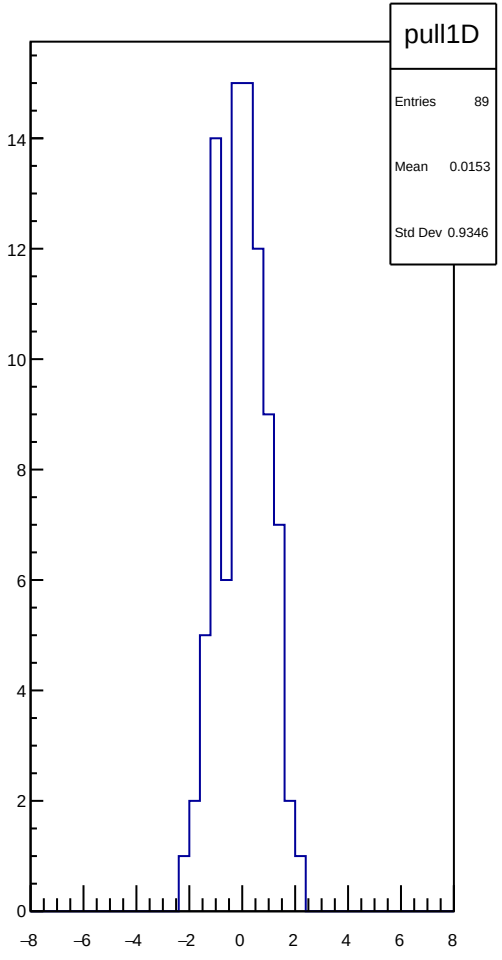

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.301e+05 / 88
p0 0.01529 ± 1.267e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

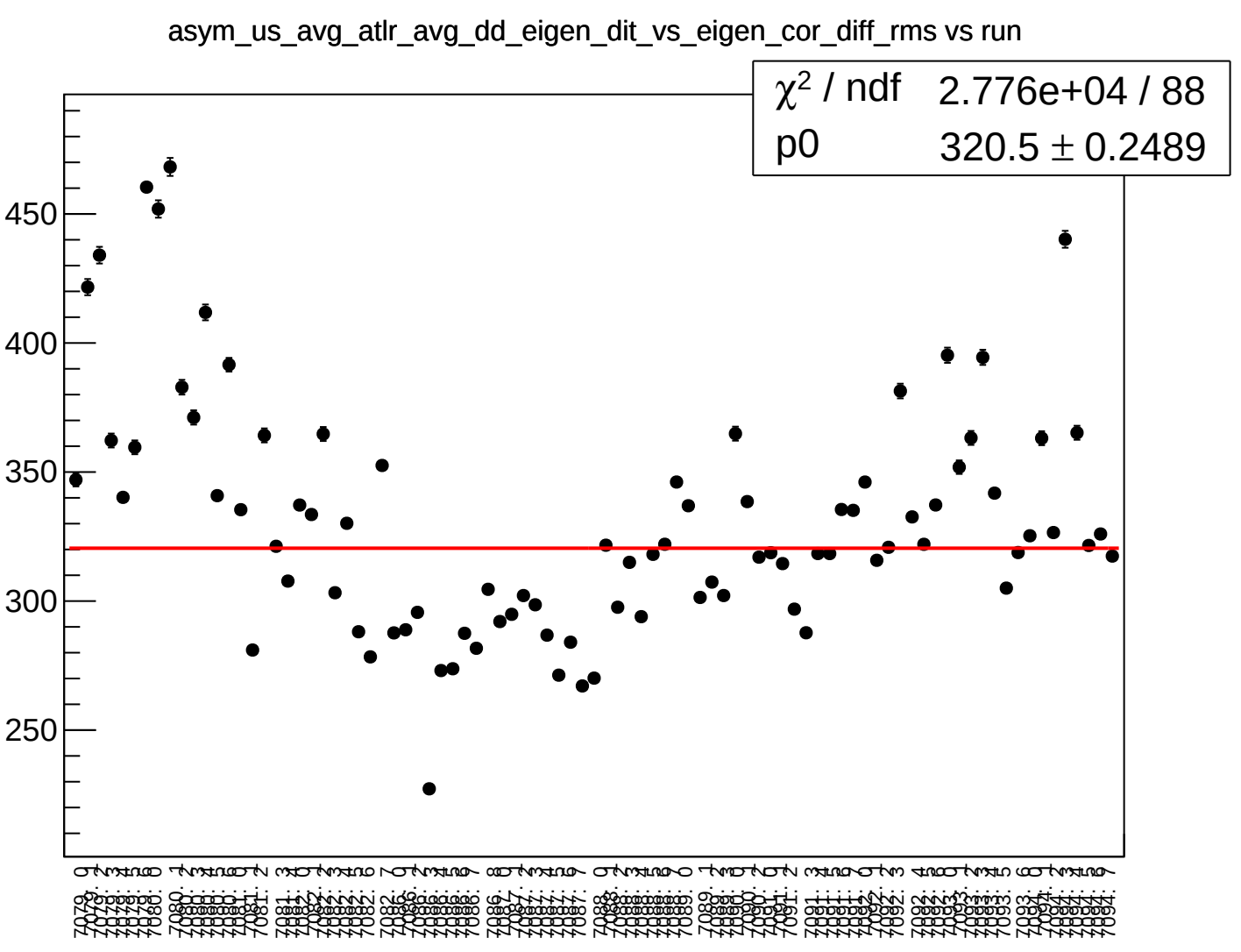

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.76 / 88
p0 −0.1489 ± 0.3519
pull
Entries 89
Mean 4.597
Std Dev 0

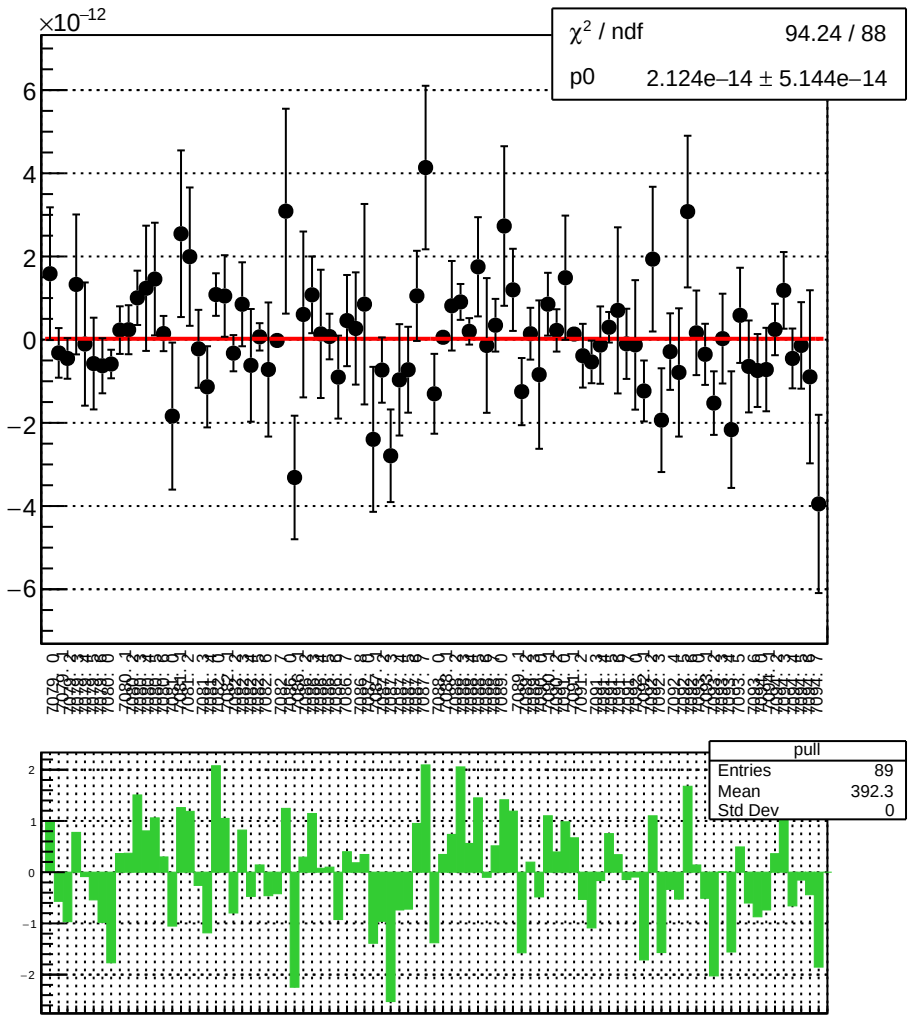

pull1D
Entries 89
Mean 0.0153
Std Dev 0.9346

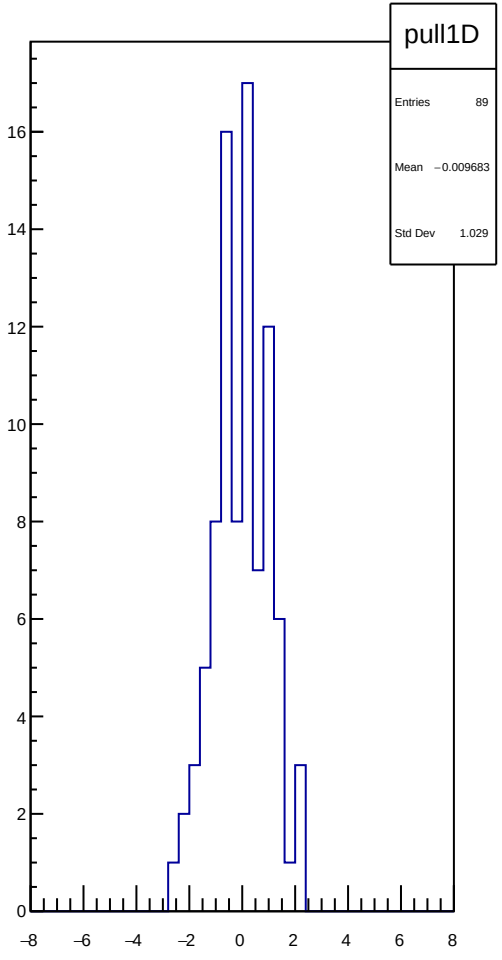

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 88
p0 320.5 ± 0.2489
450
400
350
300
250

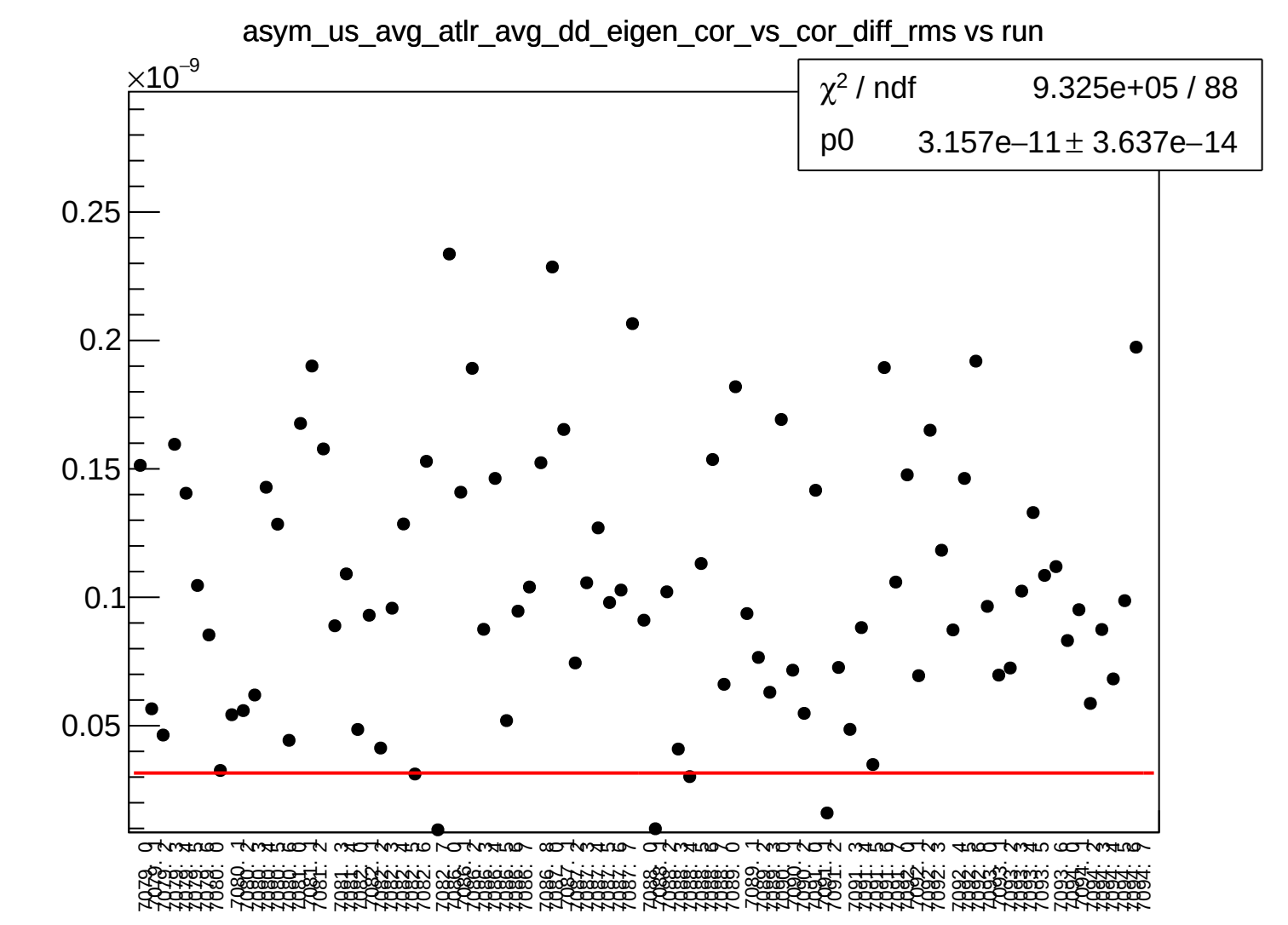

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.76 / 88
p0 −0.1489 ± 0.3519
pull
Entries 89
Mean 4.597
Std Dev 0

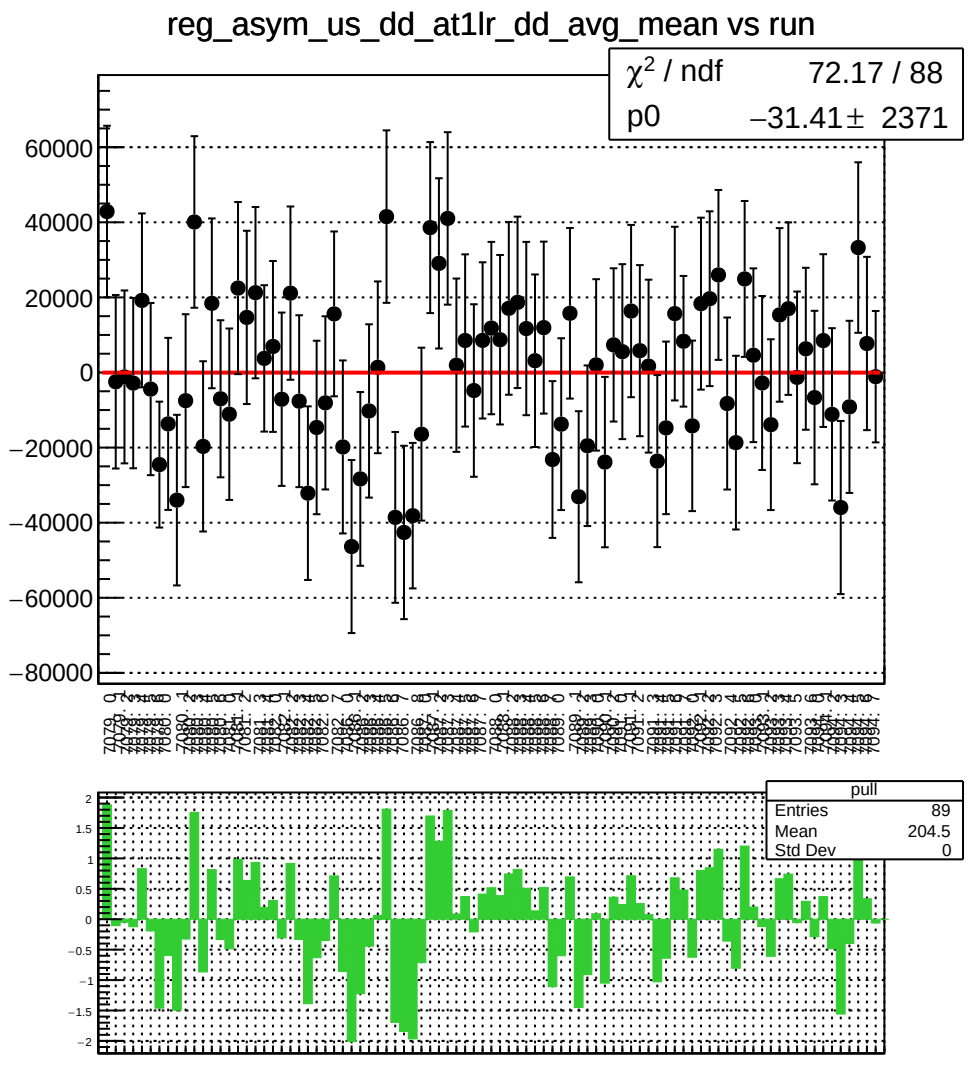

pull1D
Entries 89
Mean 0.0153
Std Dev 0.9346

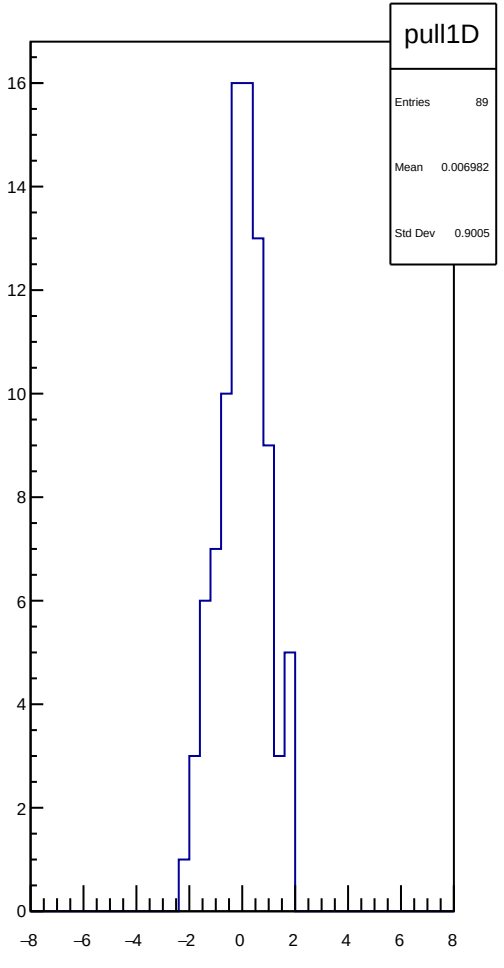

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 88
p0 320.5 ± 0.2489
450
400
350
300
250

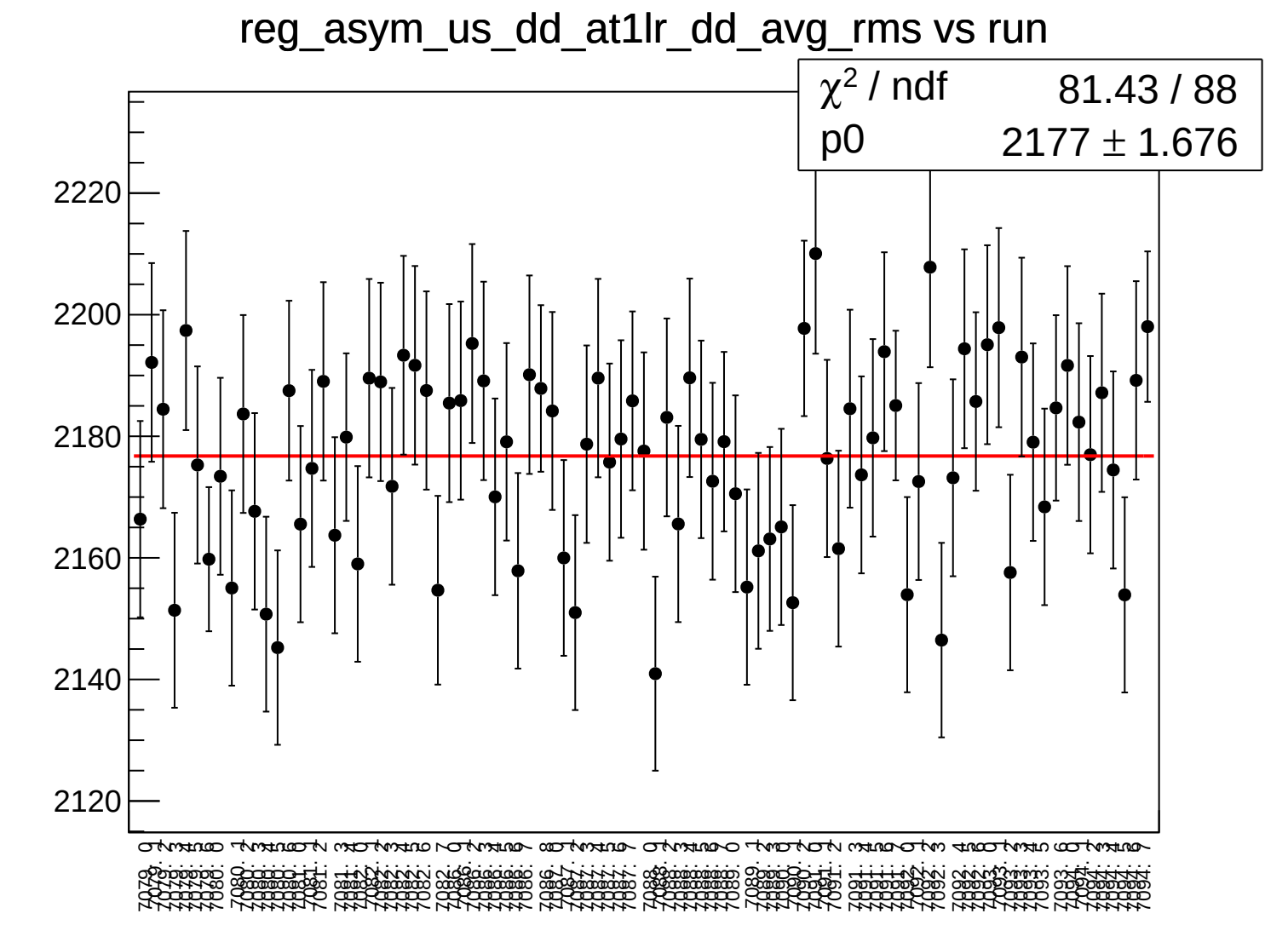

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.24 / 88
p0 2.124e−14 ± 5.144e−14
pull
Entries 89
Mean 392.3
Std Dev 0

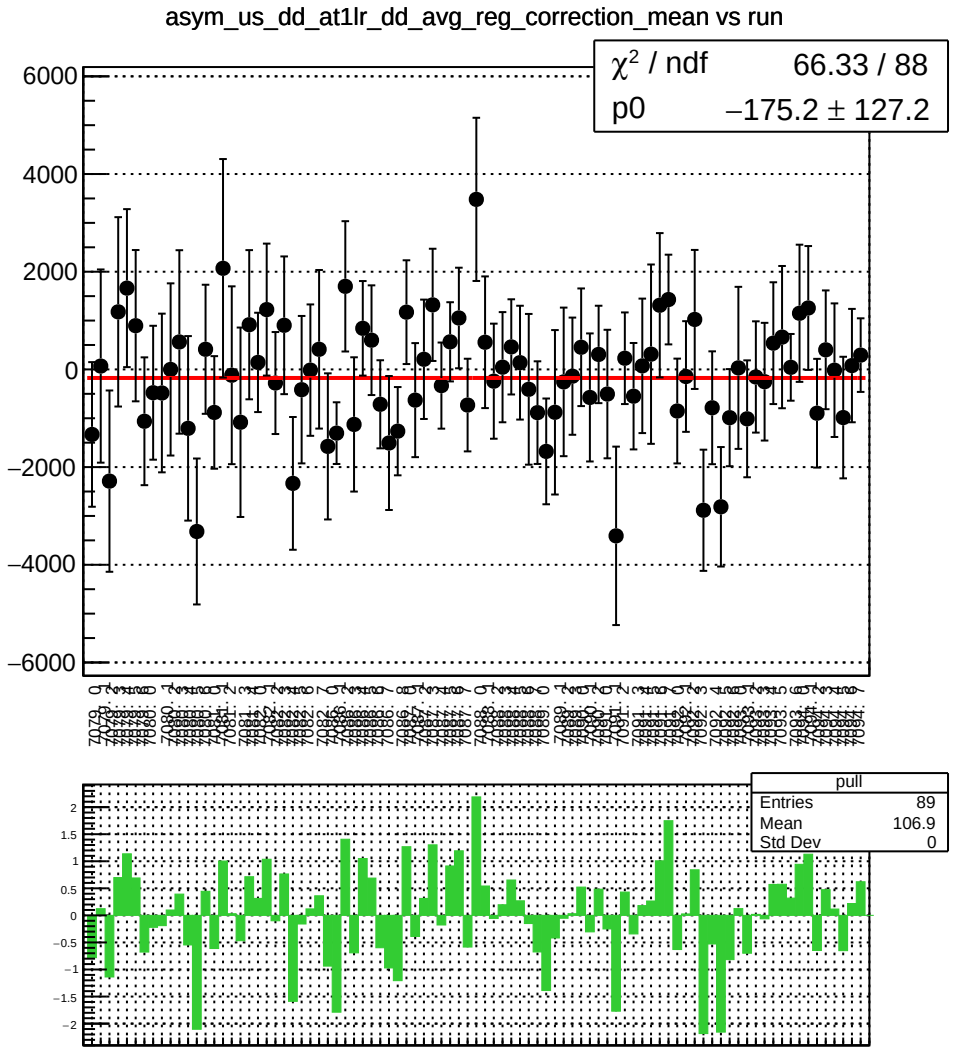

pull1D
Entries 89
Mean −0.009683
Std Dev 1.029

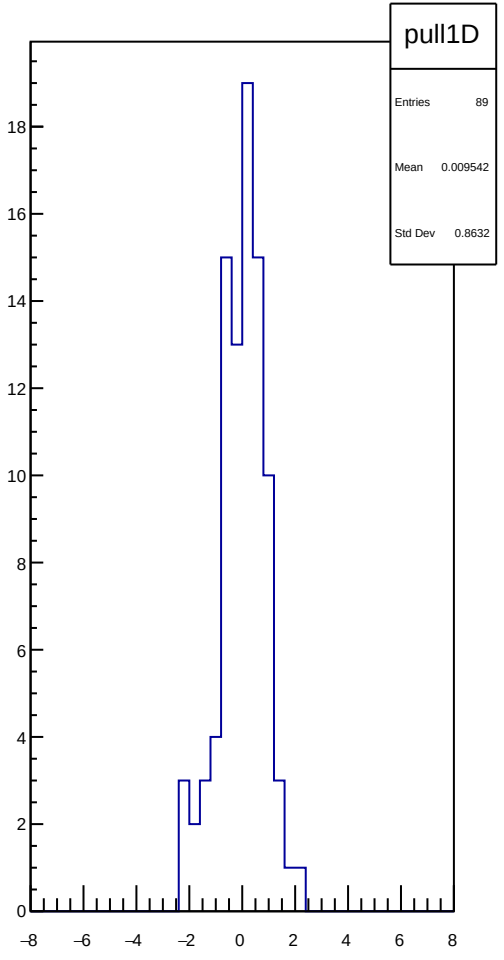

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.325e+05 / 88
p0 3.157e−11 ± 3.637e−14
0.25
0.2
0.15
0.1
0.05

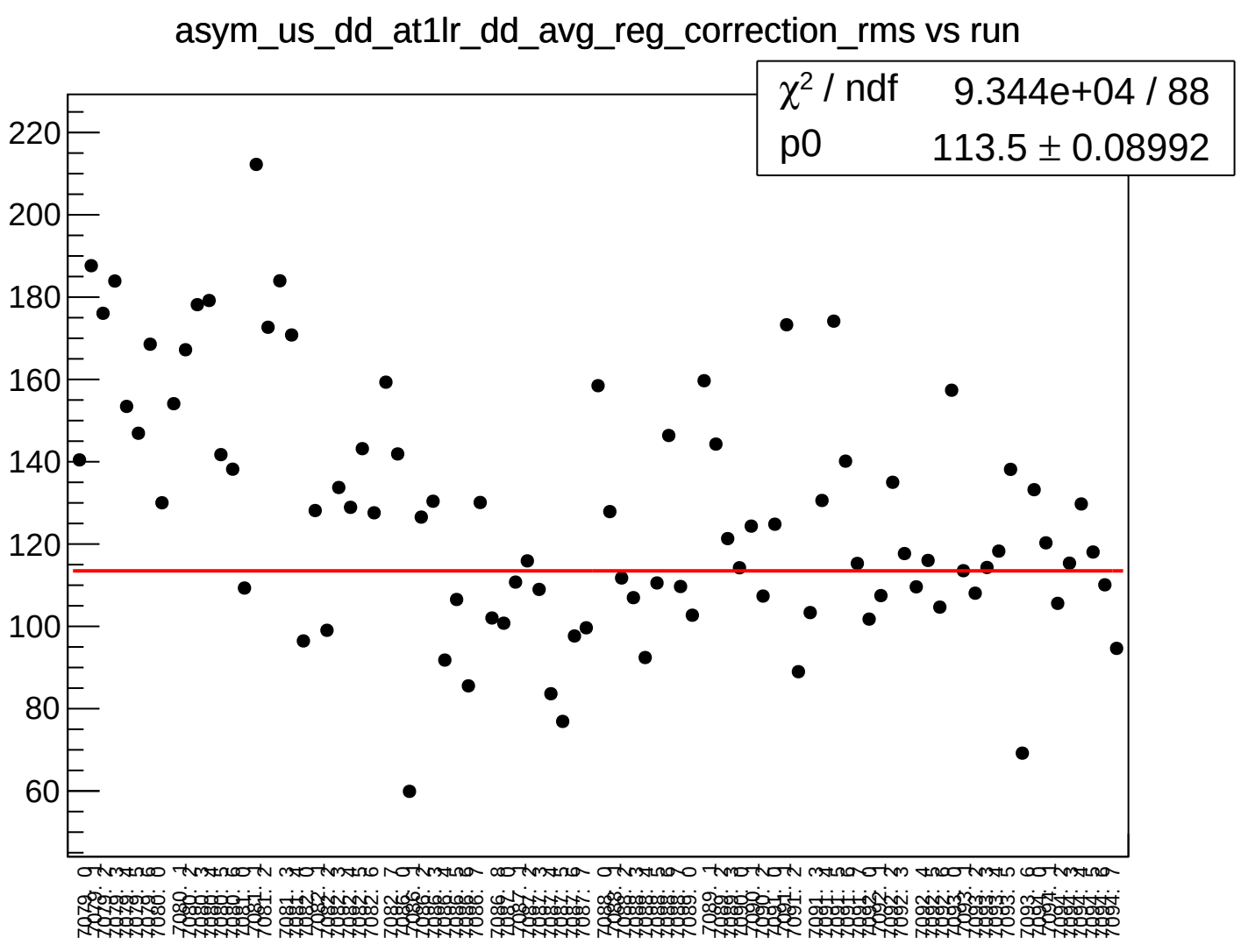

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 72.17 / 88
p0 −31.41± 2371
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 204.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

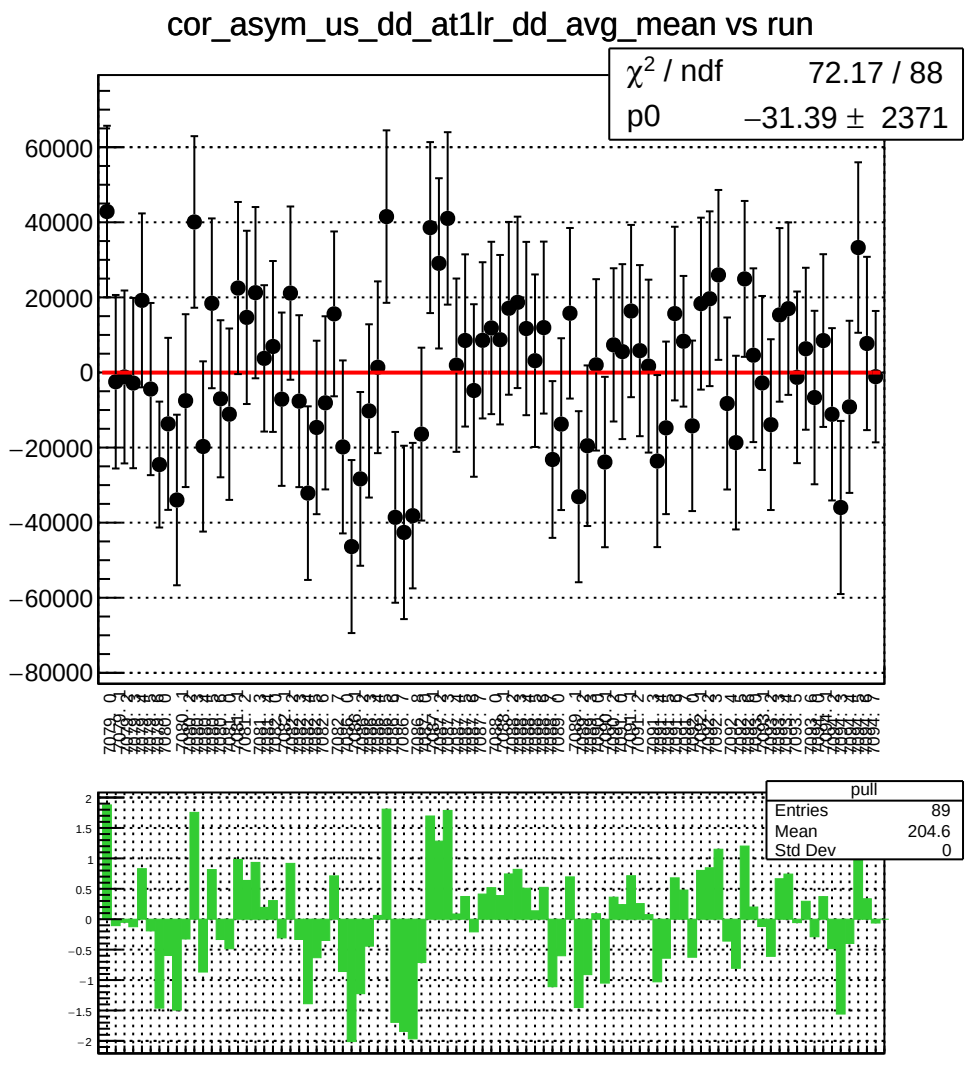

pull1D
Entries 89
Mean 0.006982
Std Dev 0.9005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

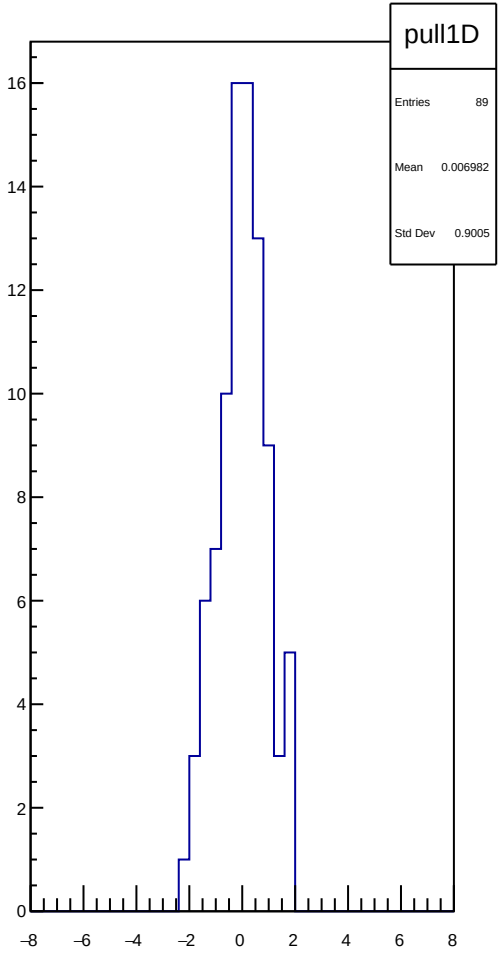

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 81.43 / 88
p0 2177 ± 1.676
2220
2200
2180
2160
2140
2120

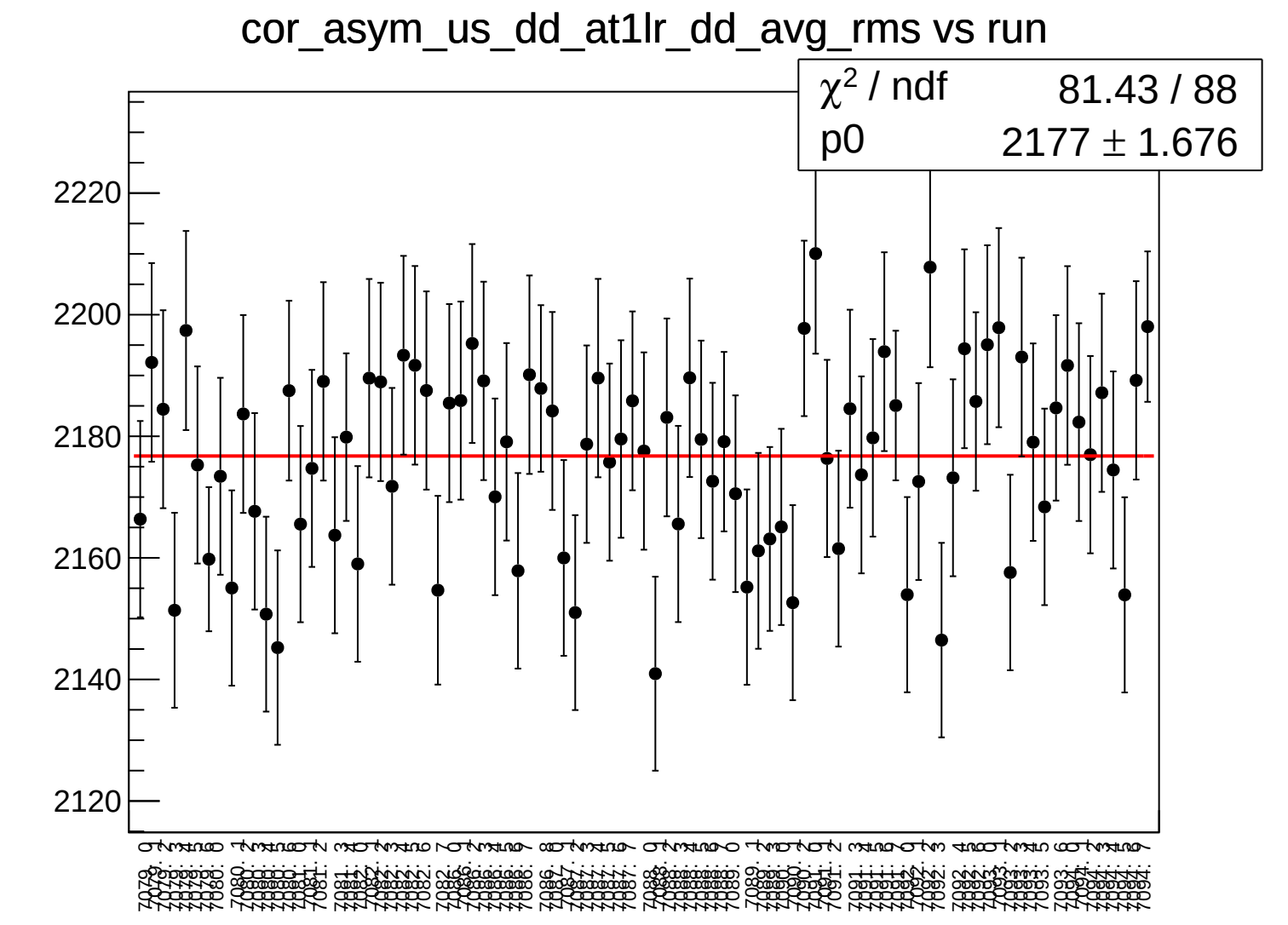

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 66.33 / 88
p0 −175.2 ± 127.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 106.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

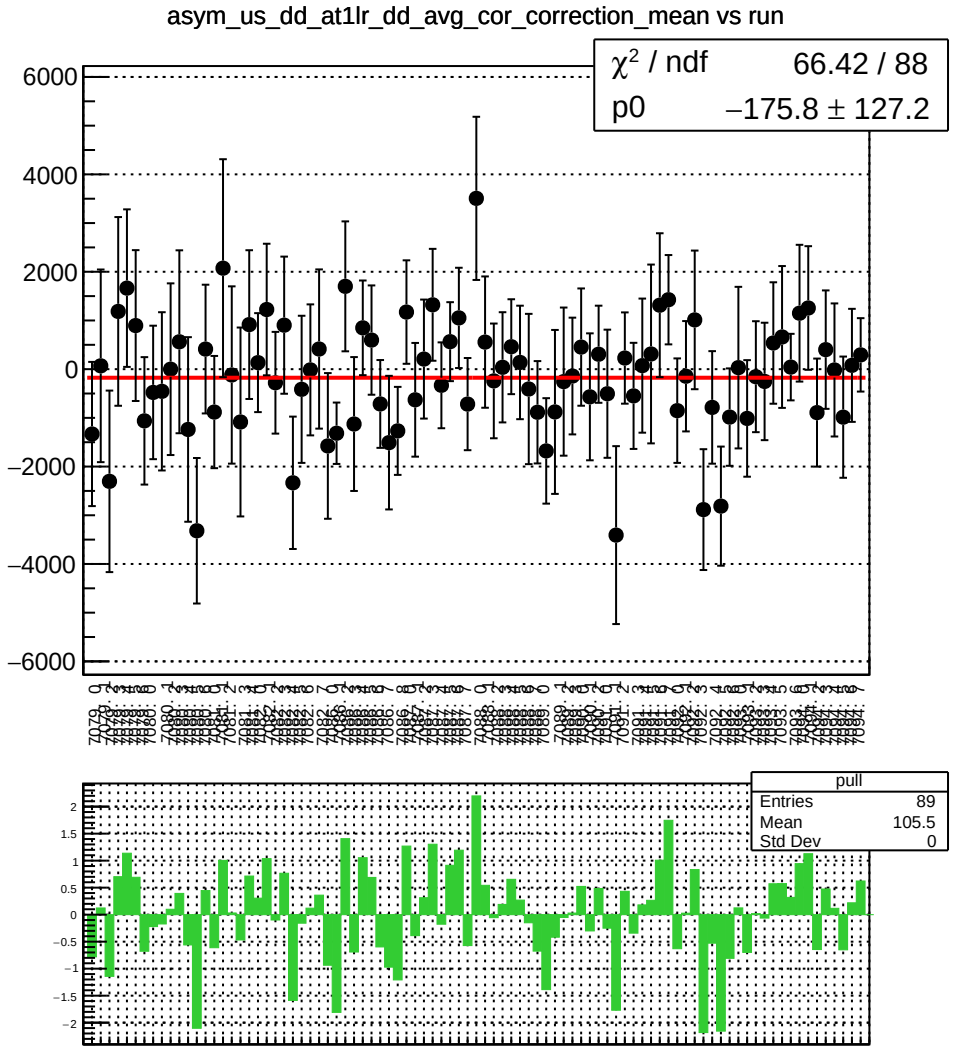

pull1D
Entries 89
Mean 0.009542
Std Dev 0.8632
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

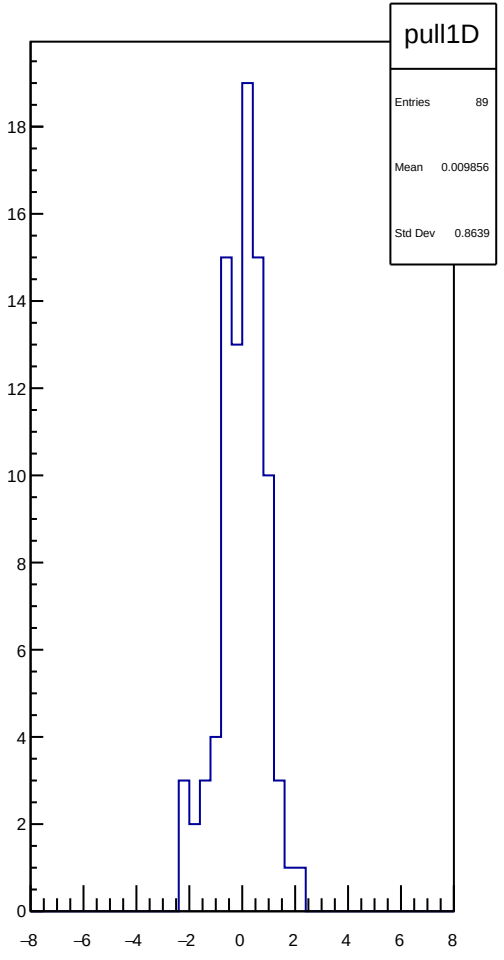

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 9.344e+04 / 88
p0 113.5 ± 0.08992
220
200
180
160
140
120
100
80
60

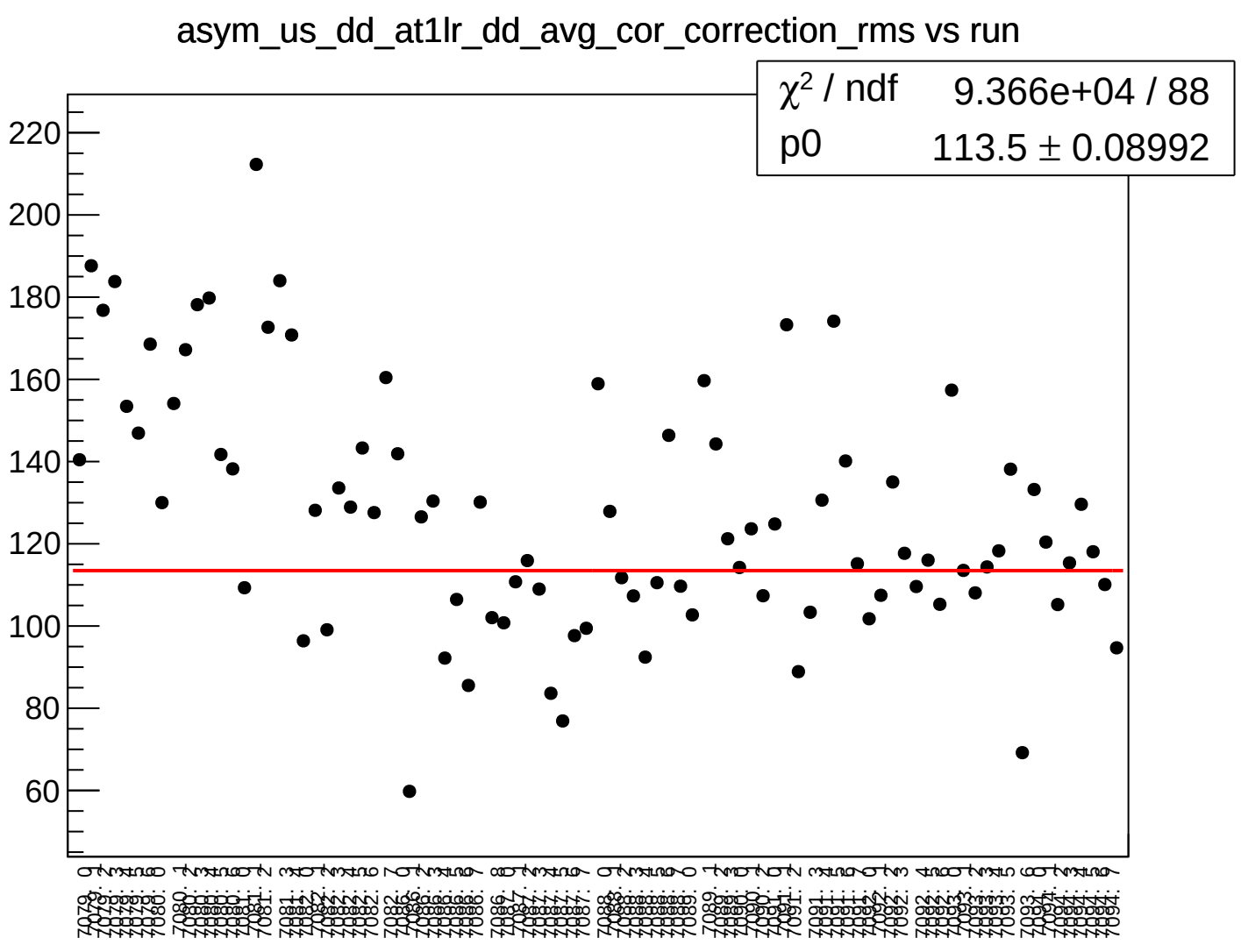

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 72.17 / 88
p0 −31.39 ± 2371
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 204.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

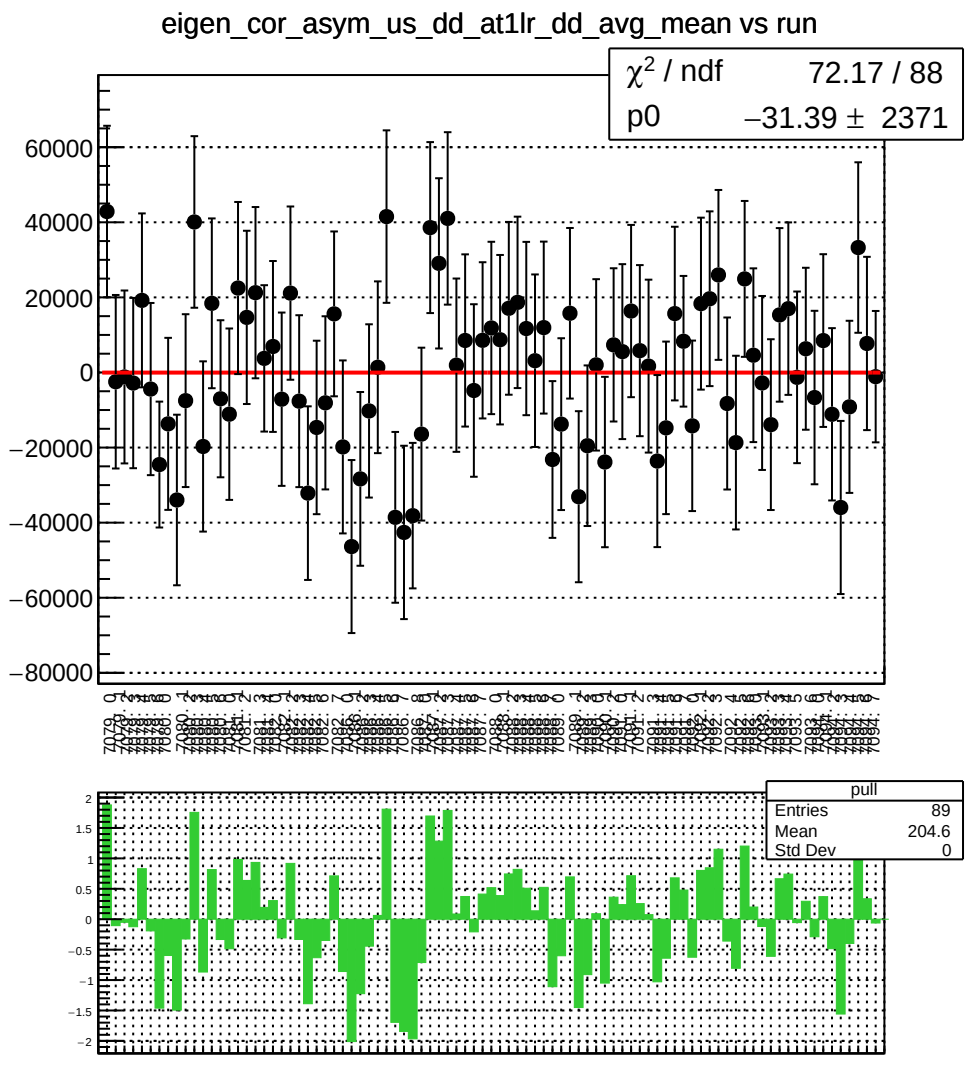

pull1D
Entries 89
Mean 0.006982
Std Dev 0.9005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

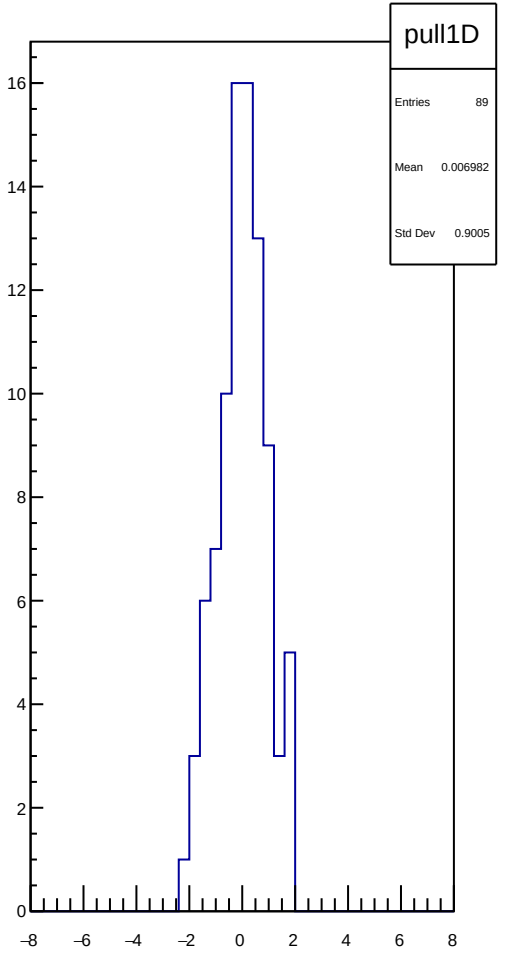

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 81.43 / 88
p0 2177 ± 1.676
2220
2200
2180
2160
2140
2120

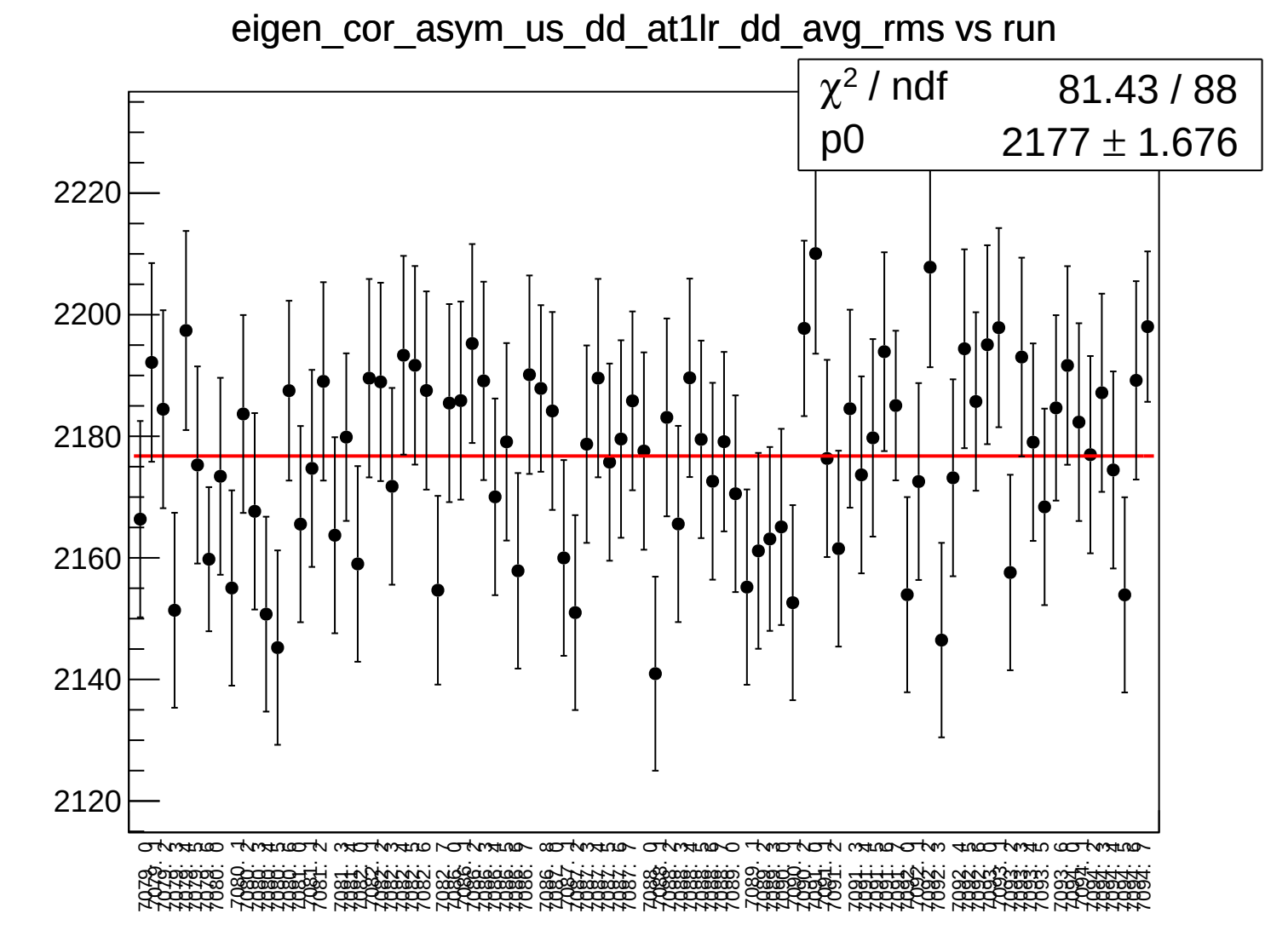

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 66.42 / 88
p0 −175.8 ± 127.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 105.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

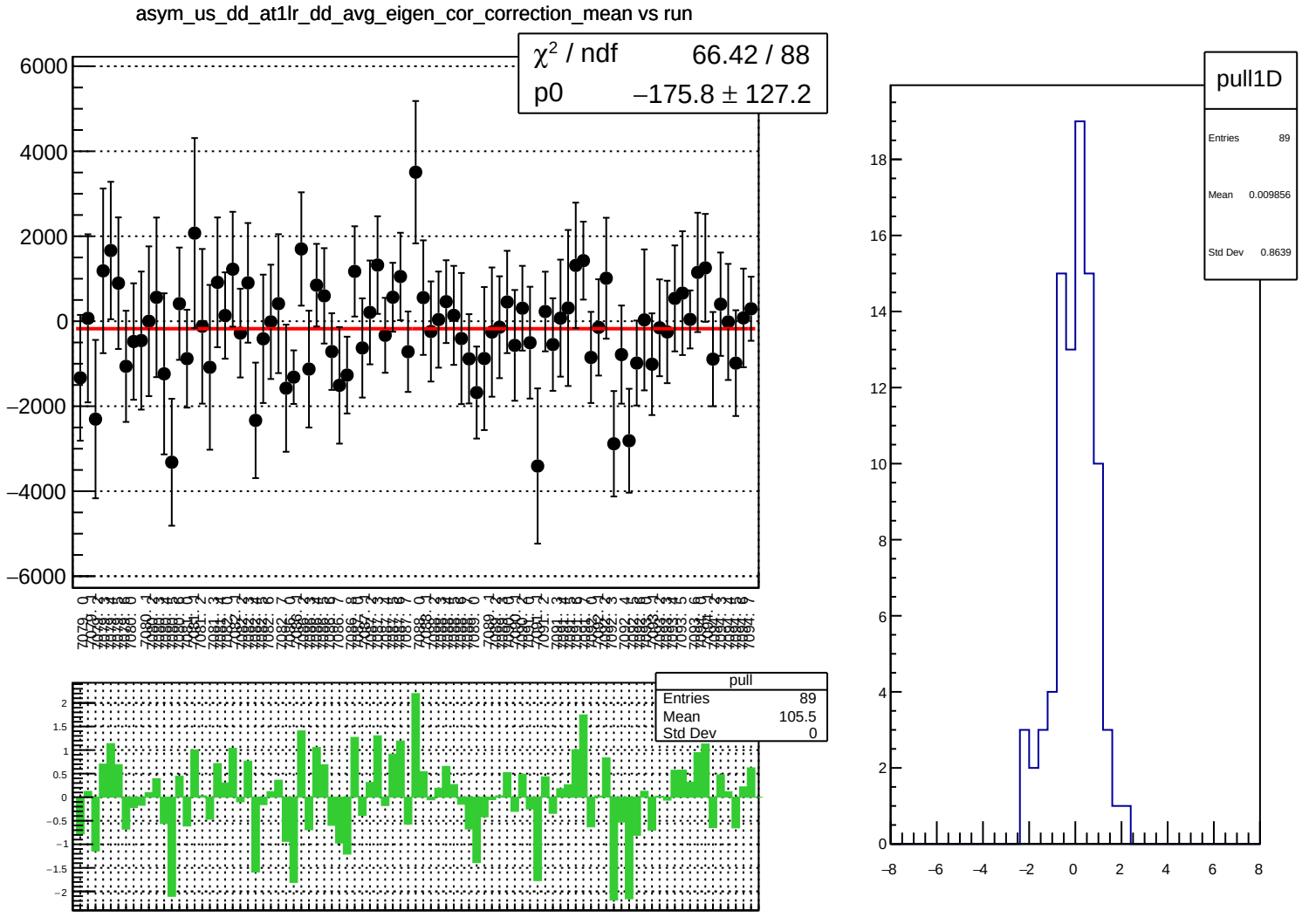

pull1D
Entries 89
Mean 0.009856
Std Dev 0.8639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

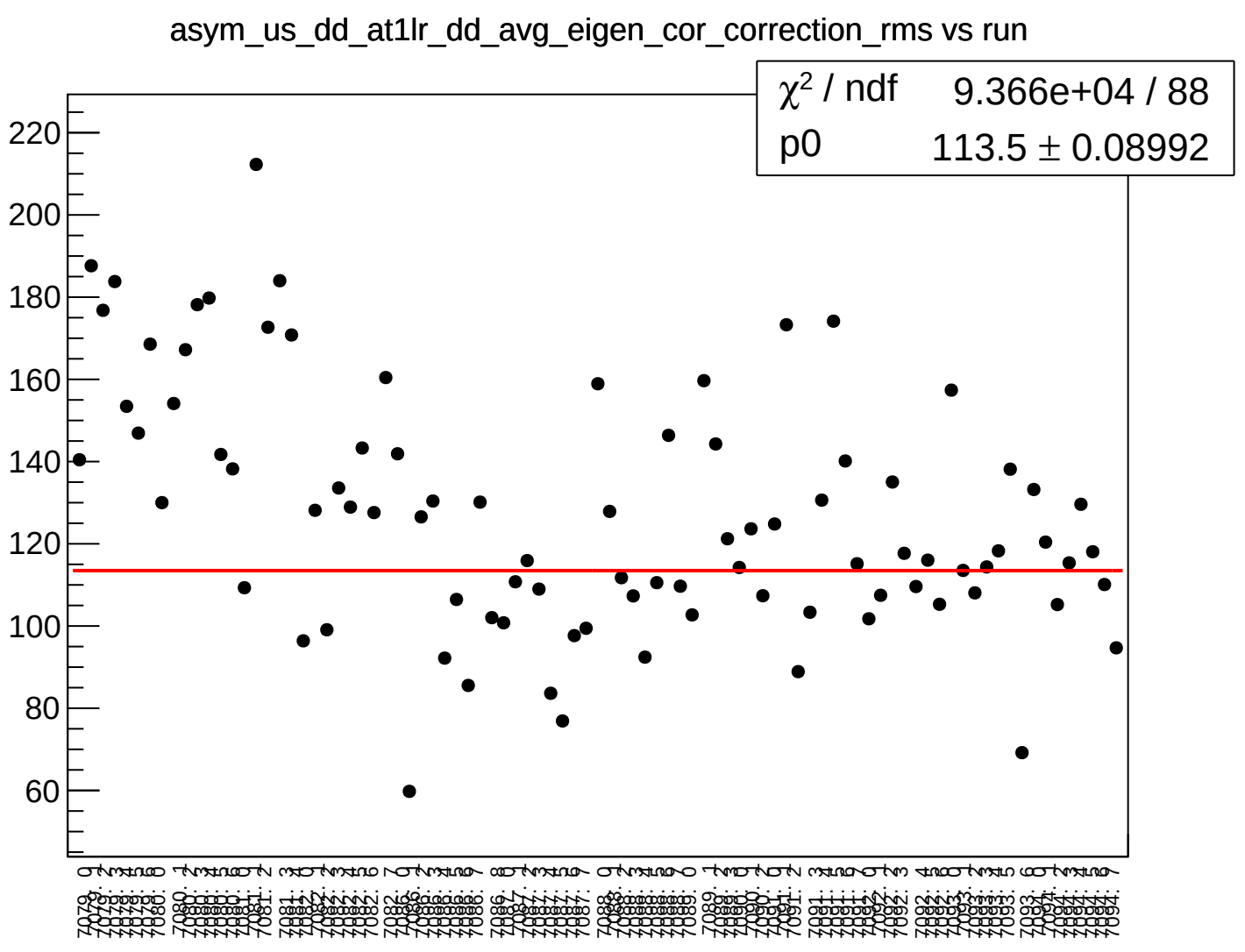

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 9.366e+04 / 88
p0 113.5 ± 0.08992
220
200
180
160
140
120
100
80
60

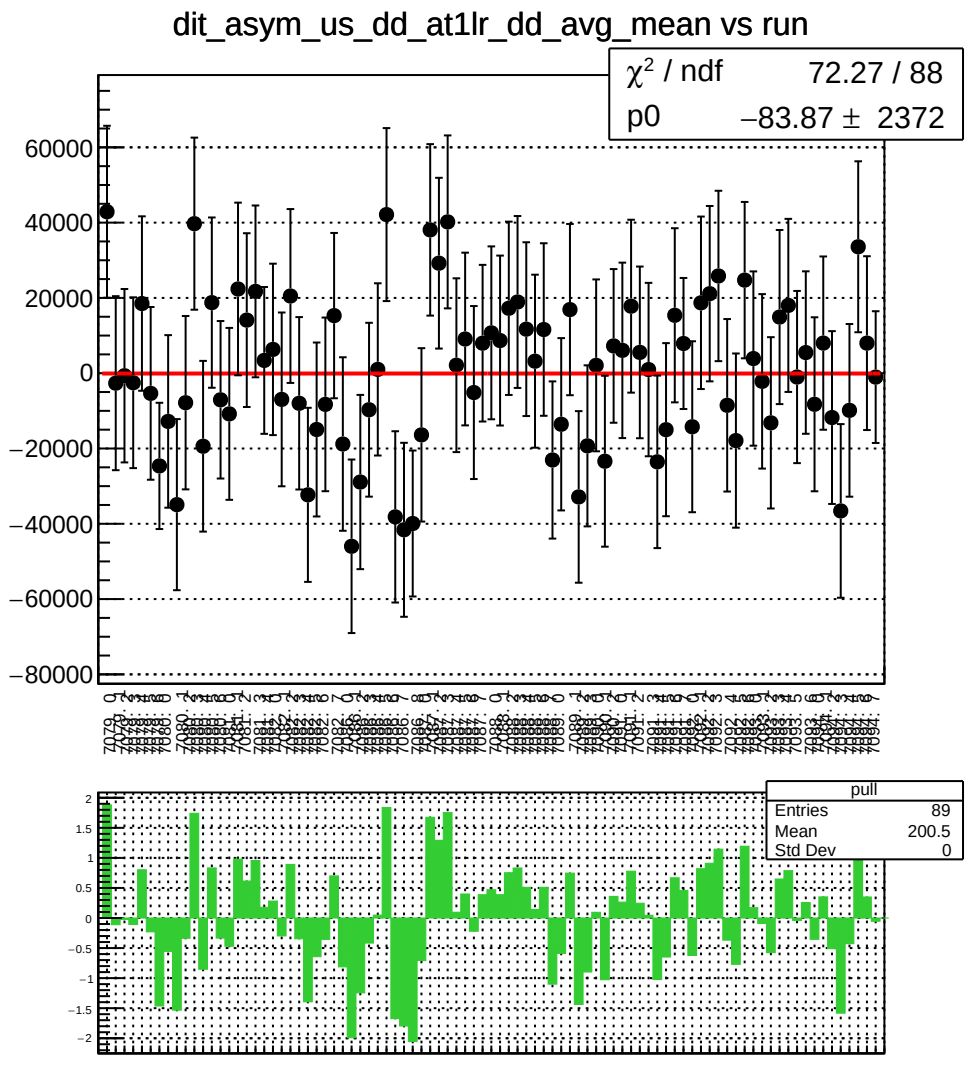

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 72.17 / 88
p0 −31.39 ± 2371
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 204.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

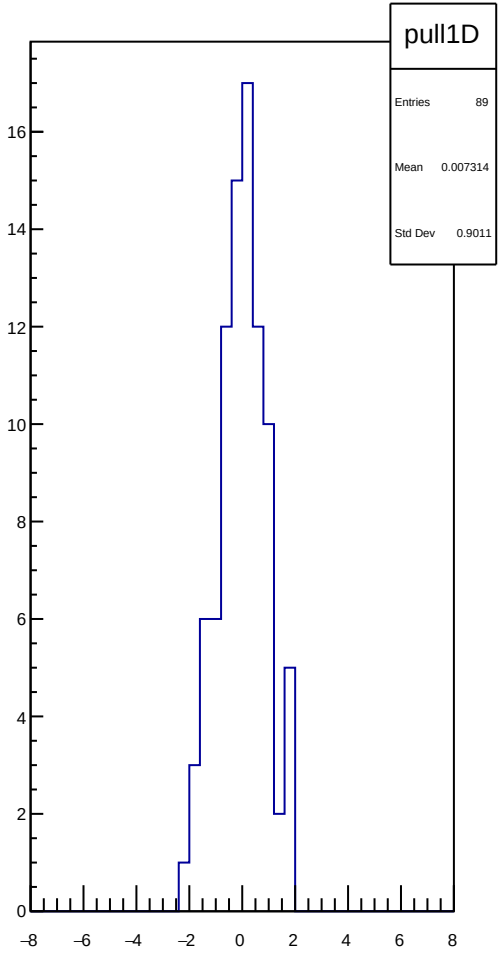

pull1D
Entries 89
Mean 0.006982
Std Dev 0.9005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

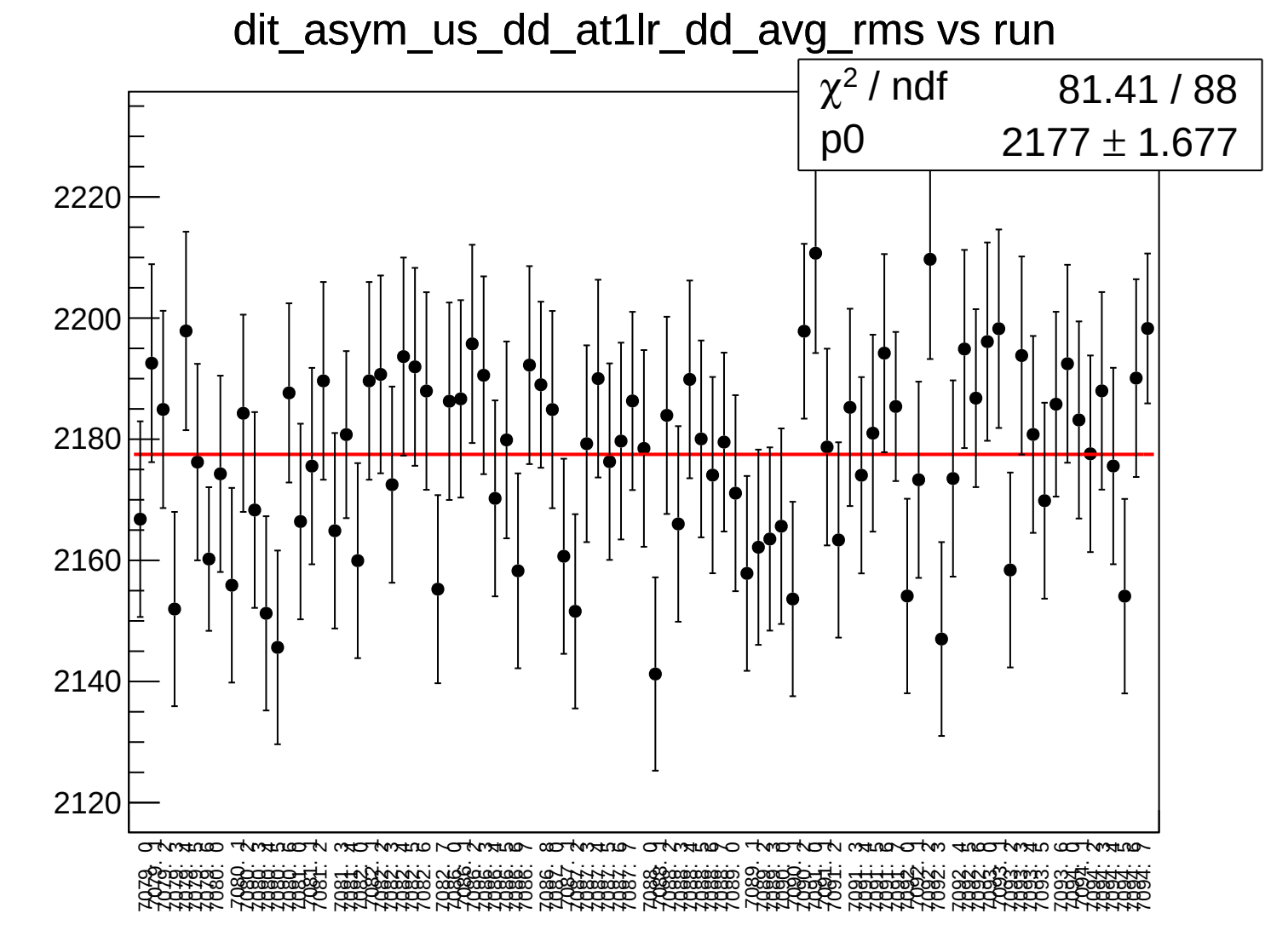

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 81.43 / 88
p0 2177 ± 1.676
2220
2200
2180
2160
2140
2120

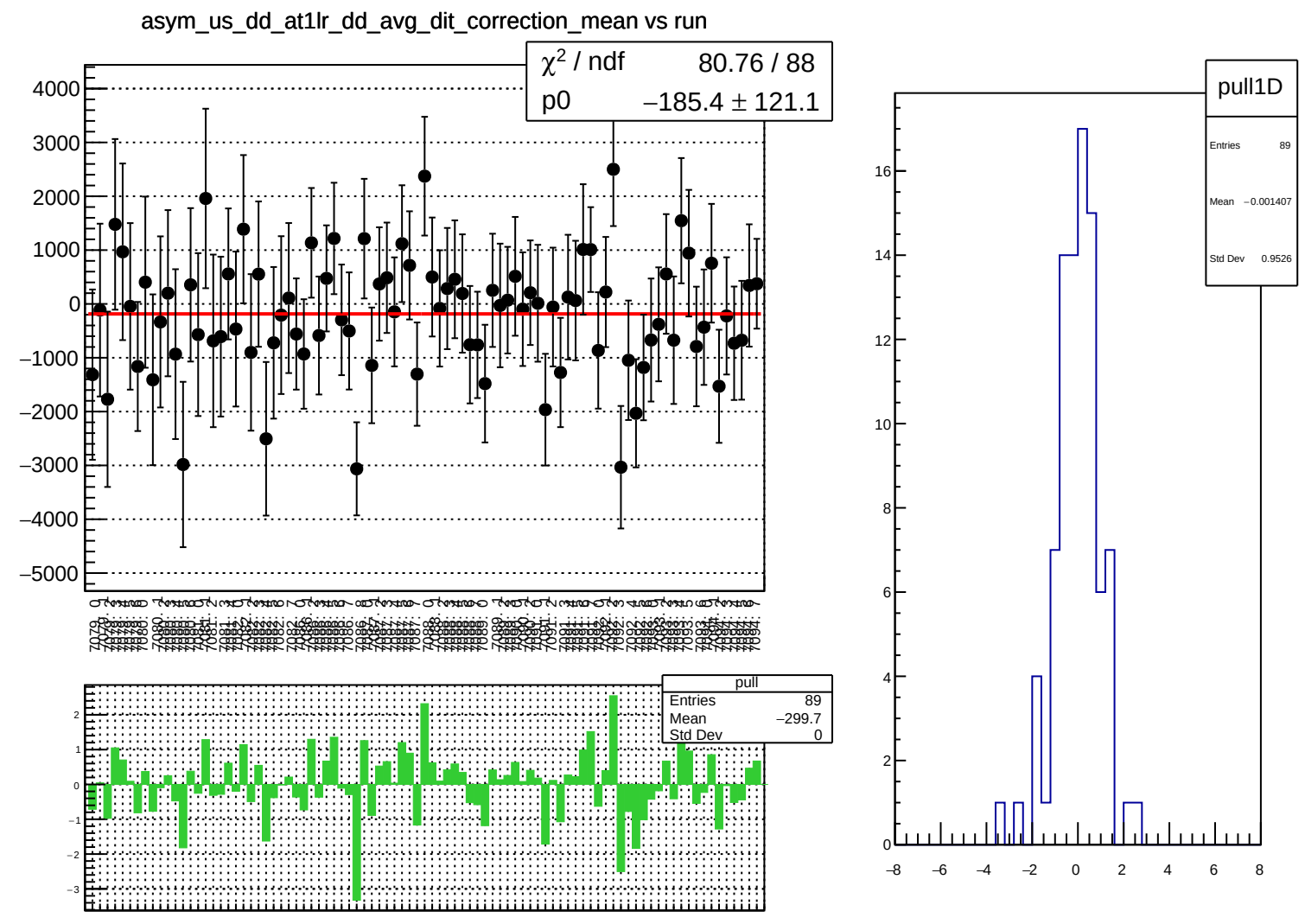

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.42 / 88
p0 −175.8 ± 127.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 105.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.009856
Std Dev 0.8639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

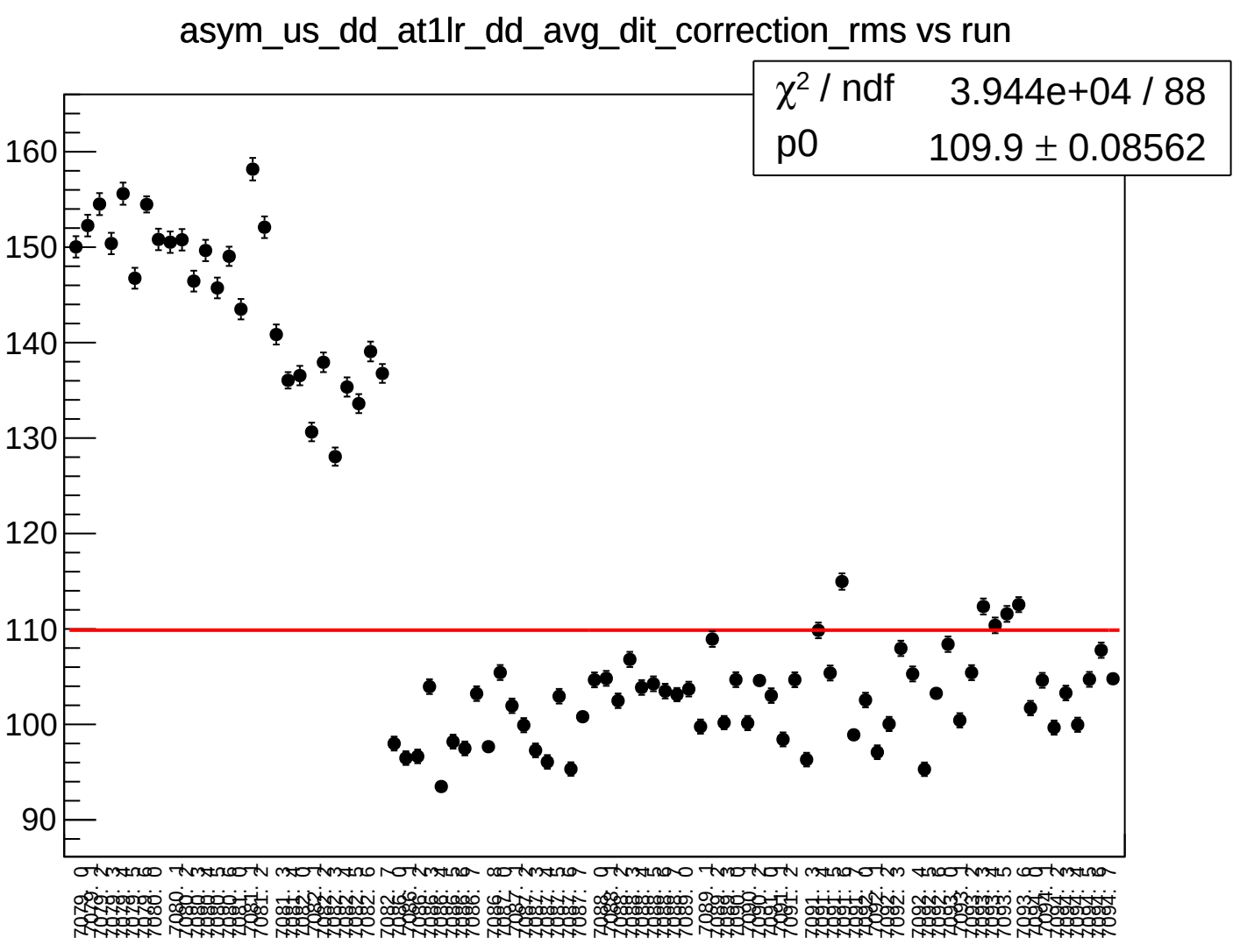

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9.366e+04 / 88
p0 113.5 ± 0.08992
220
200
180
160
140
120
100
80
60

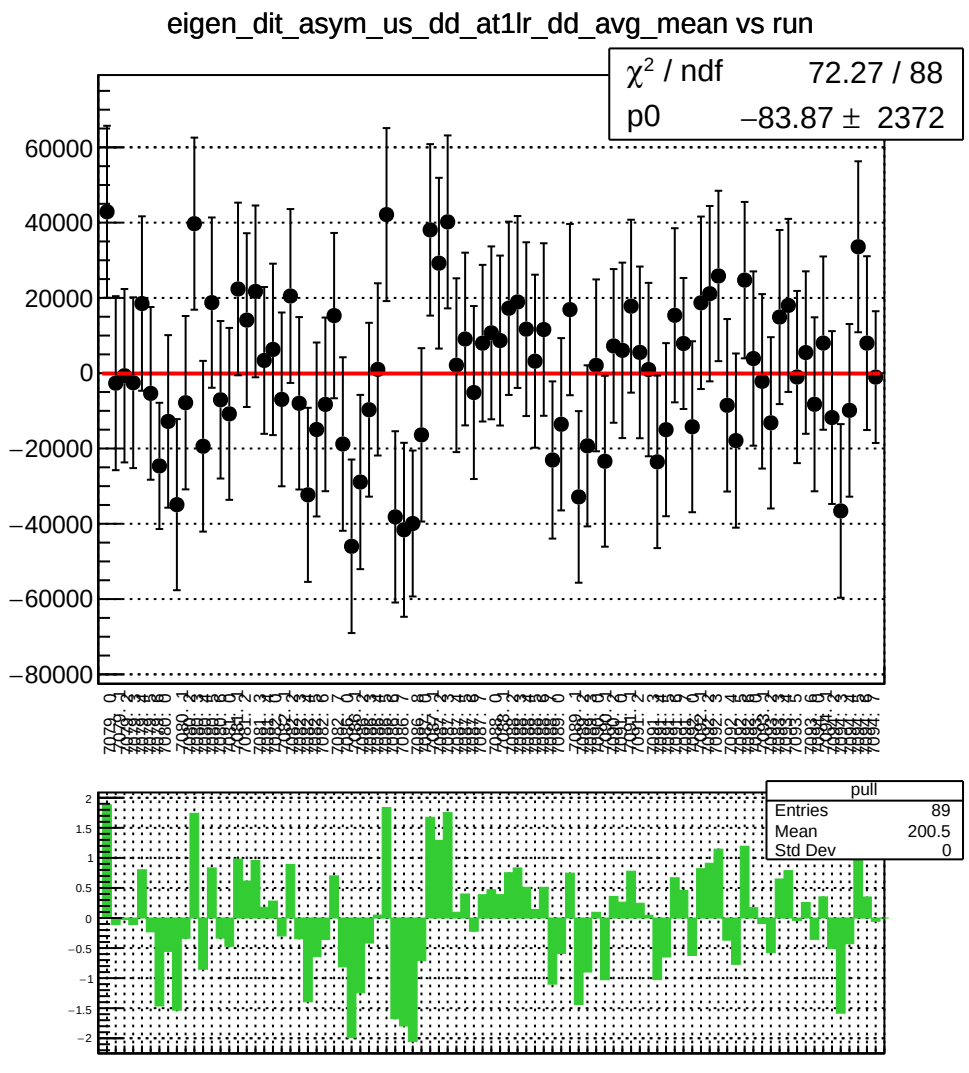

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 72.27 / 88
p0 −83.87 ± 2372
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 200.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

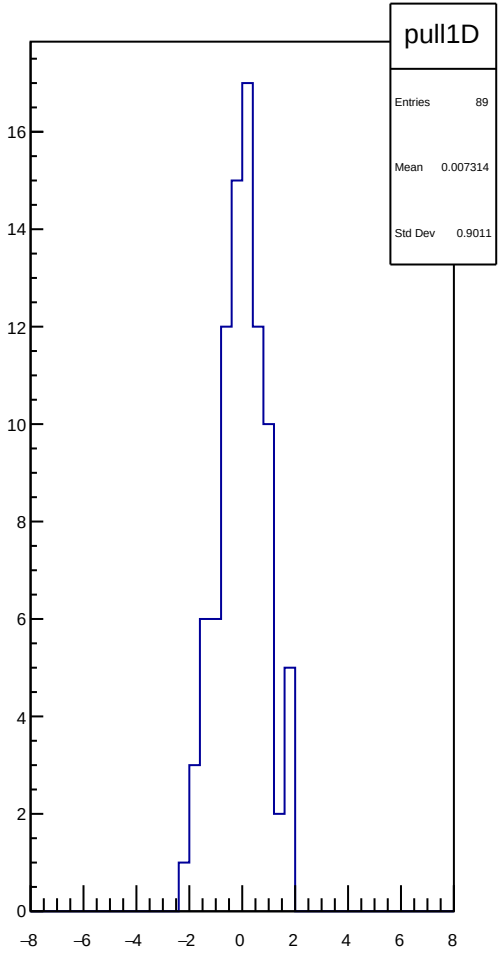

pull1D
Entries 89
Mean 0.007314
Std Dev 0.9011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

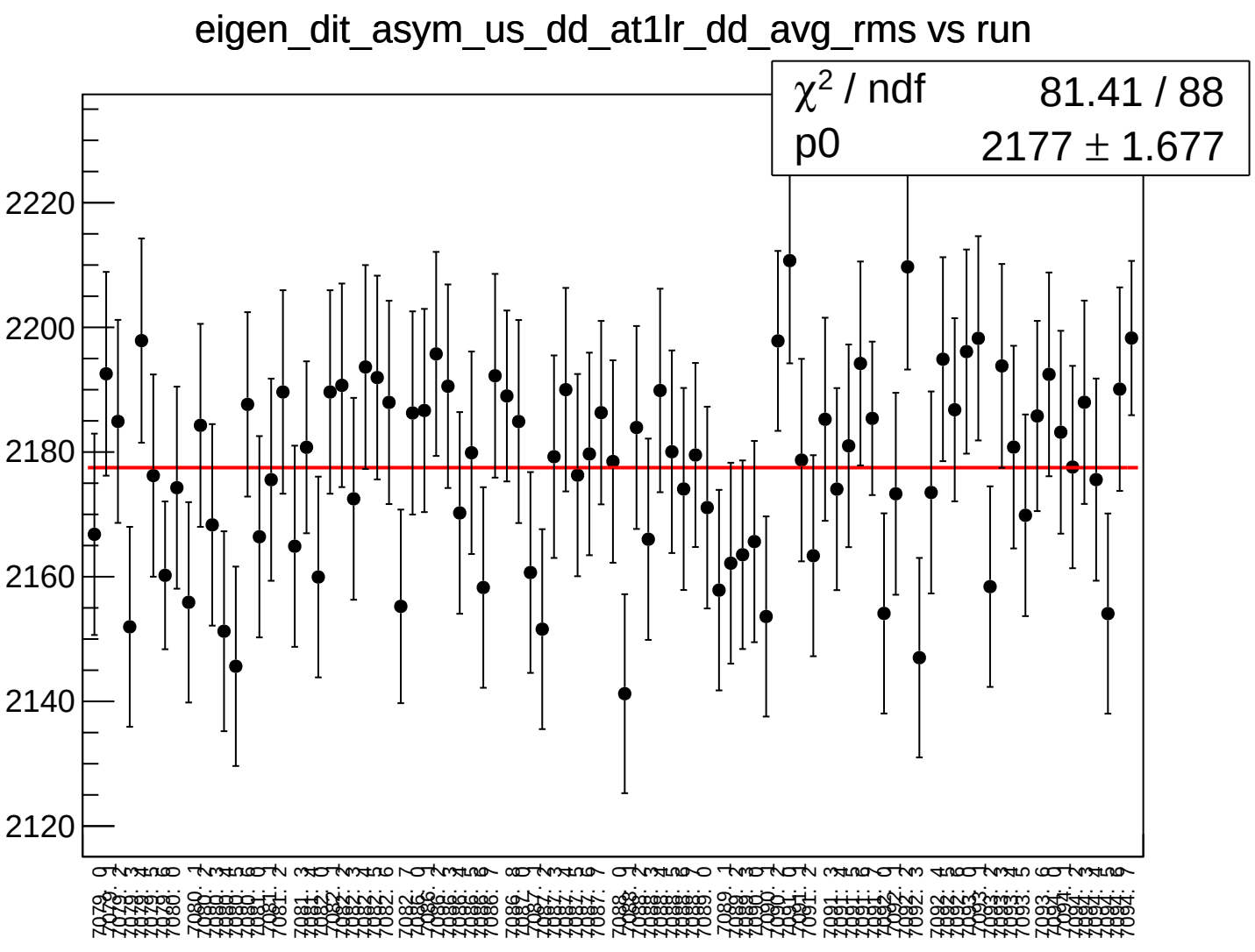

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 81.41 / 88
p0 2177 ± 1.677
2220
2200
2180
2160
2140
2120

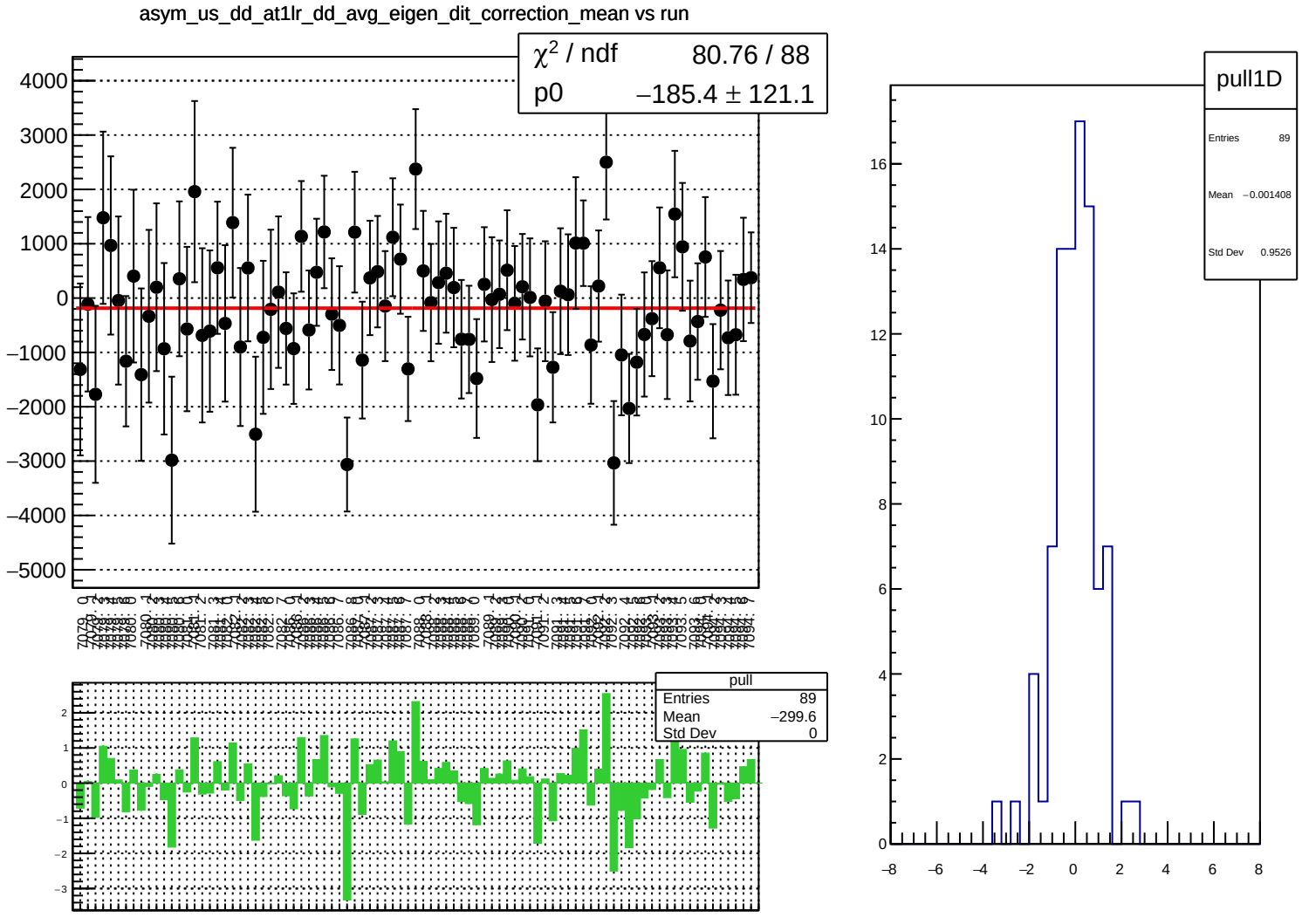

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 80.76 / 88
p0 −185.4 ± 121.1
pull
Entries 89
Mean −299.7
Std Dev 0
pull1D
Entries 89
Mean −0.001407
Std Dev 0.9526

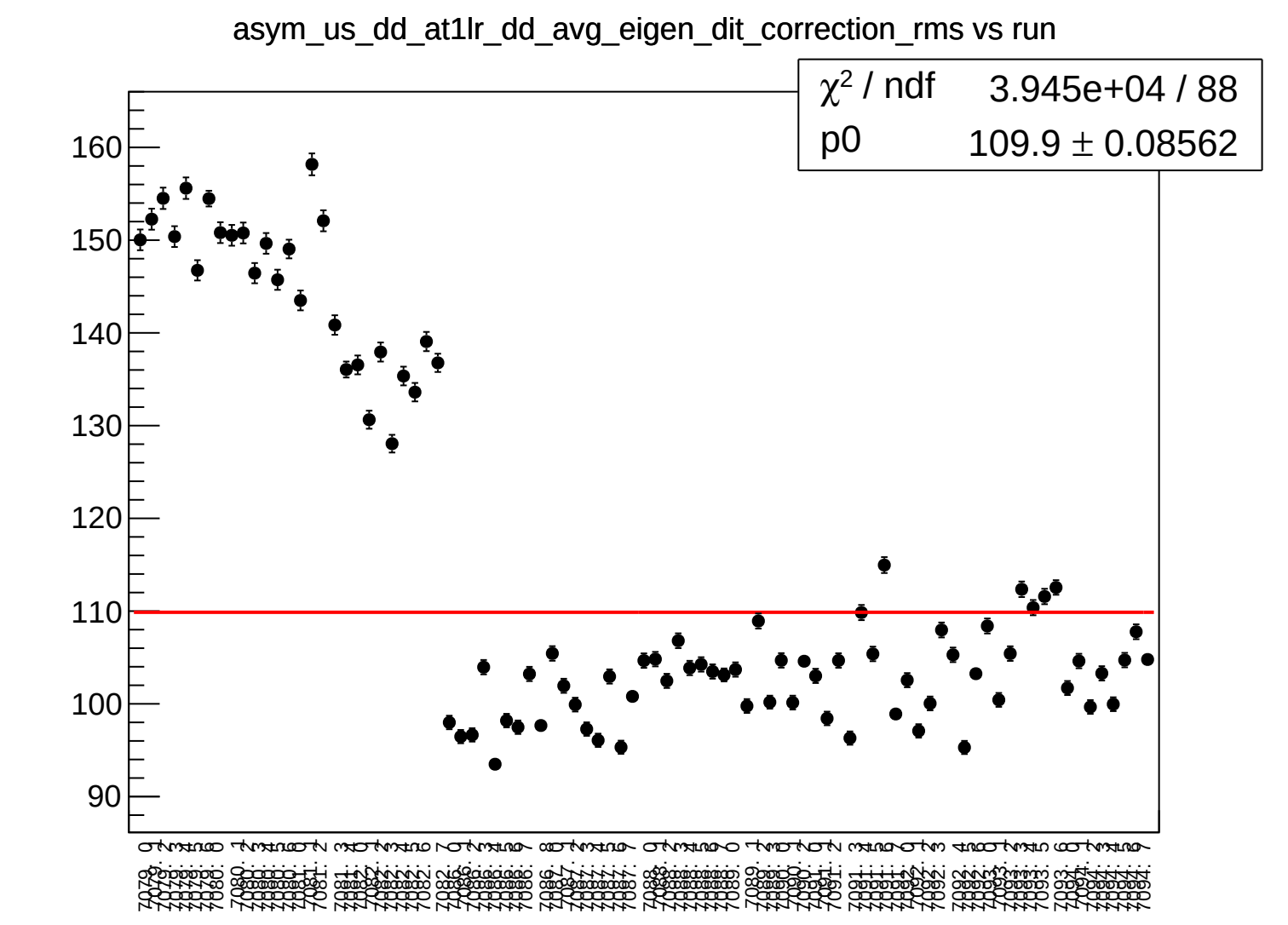

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3.944e+04 / 88
p0 109.9 ± 0.08562
160
150
140
130
120
110
100
90

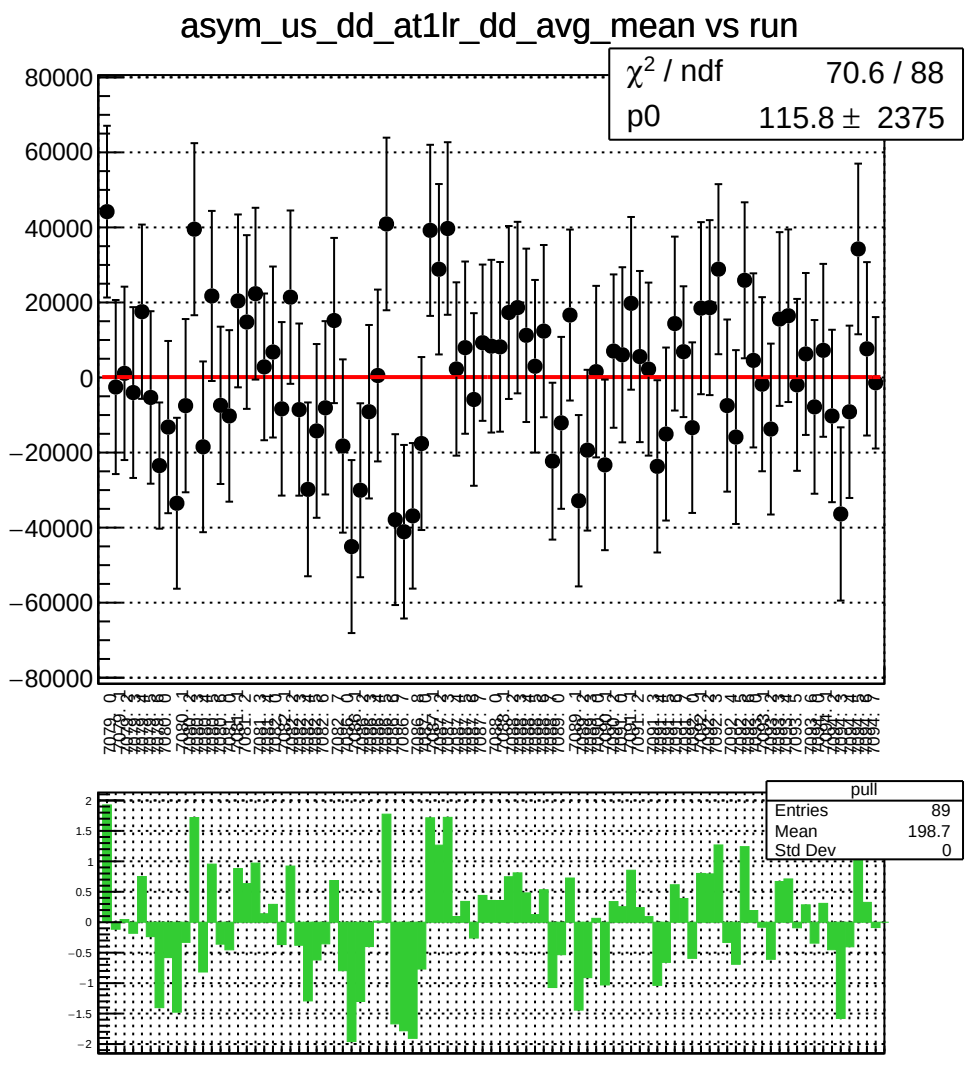

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 72.27 / 88
p0 −83.87 ± 2372
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 200.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

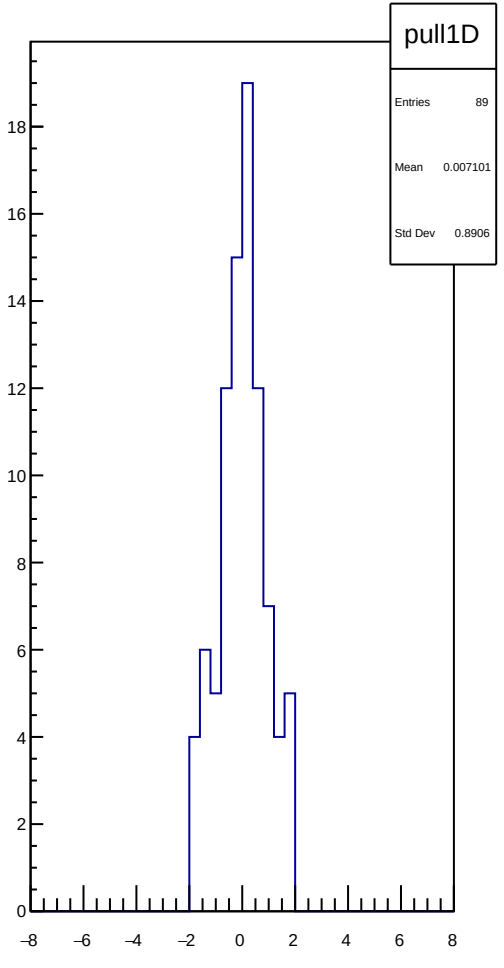

pull1D
Entries 89
Mean 0.007314
Std Dev 0.9011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

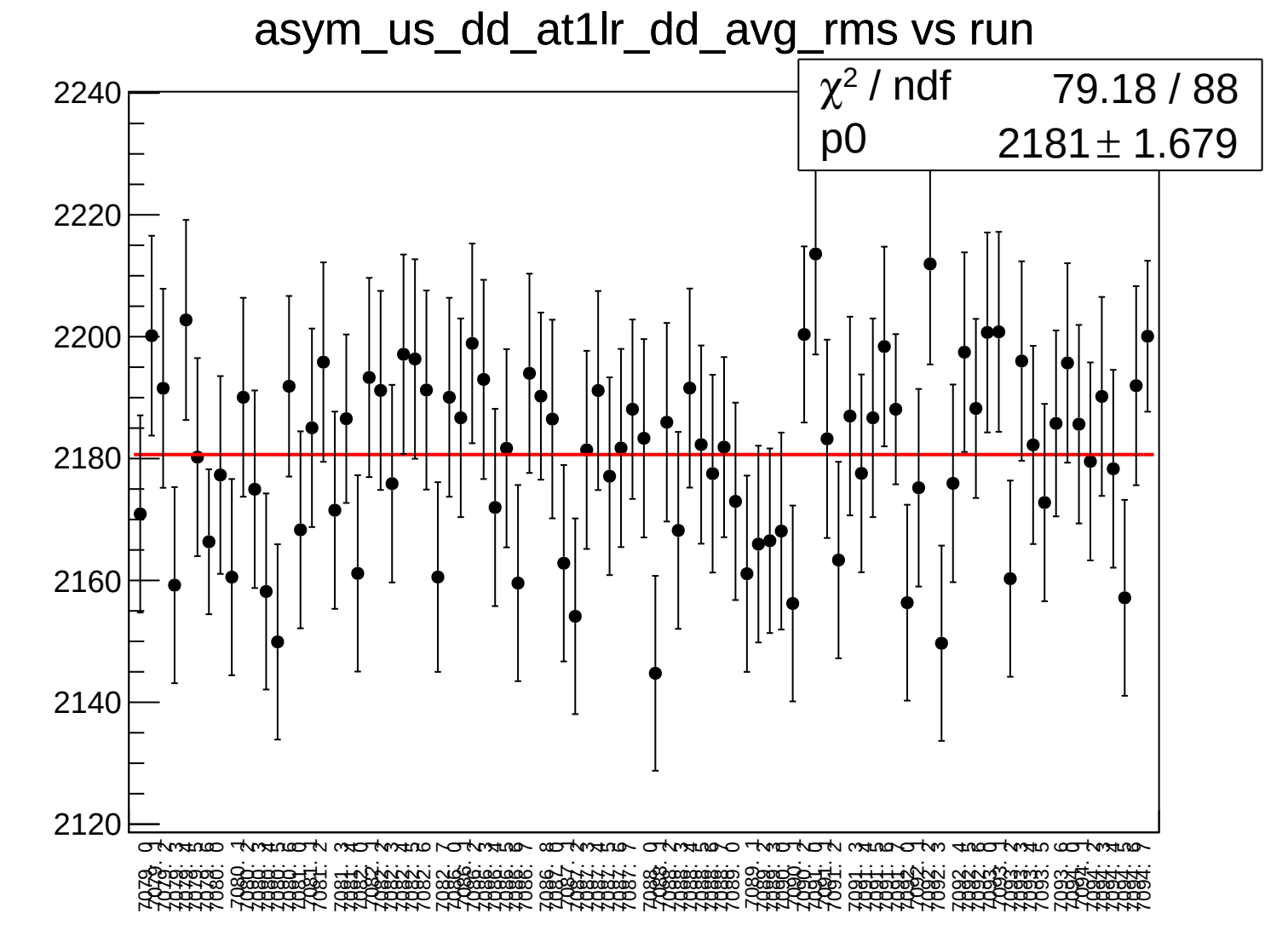

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 81.41 / 88
p0 2177 ± 1.677
2220
2200
2180
2160
2140
2120

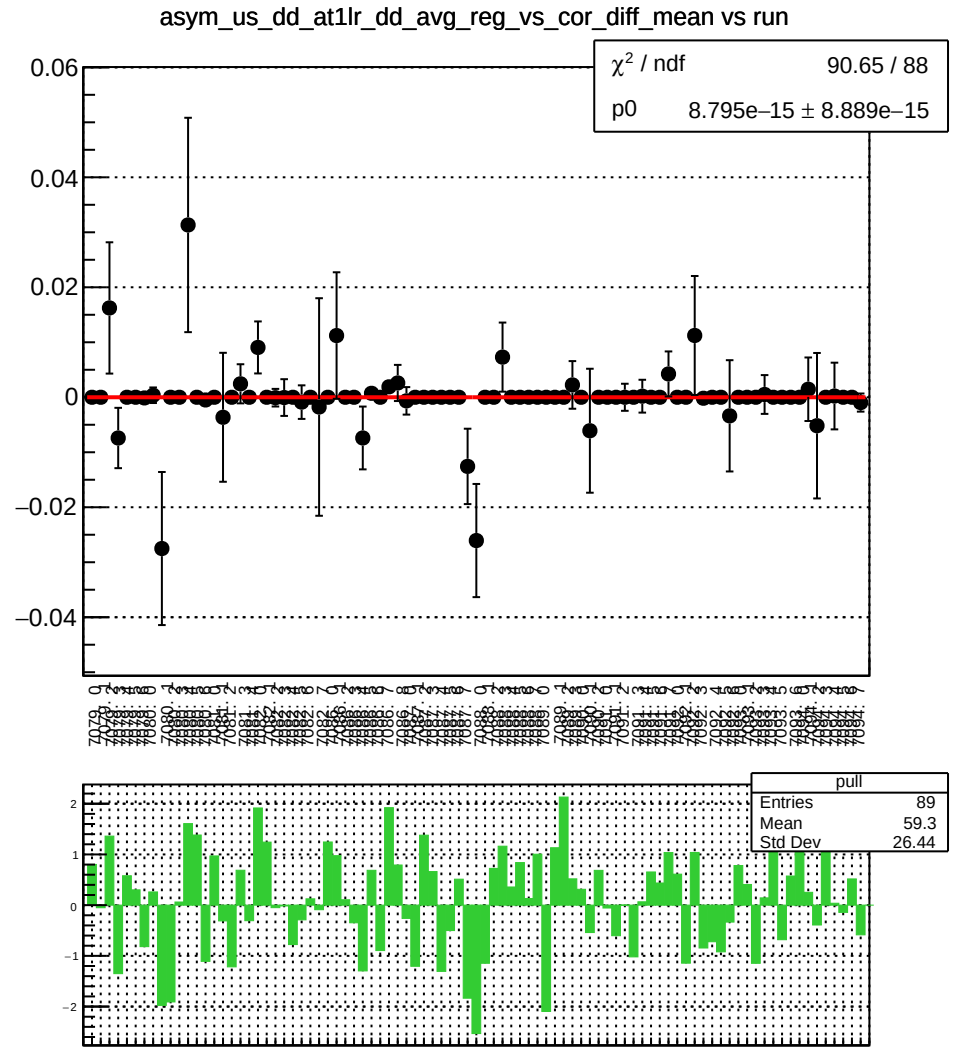

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.76 / 88
p0 −185.4 ± 121.1
pull
Entries 89
Mean −299.6
Std Dev 0
pull1D
Entries 89
Mean −0.001408
Std Dev 0.9526

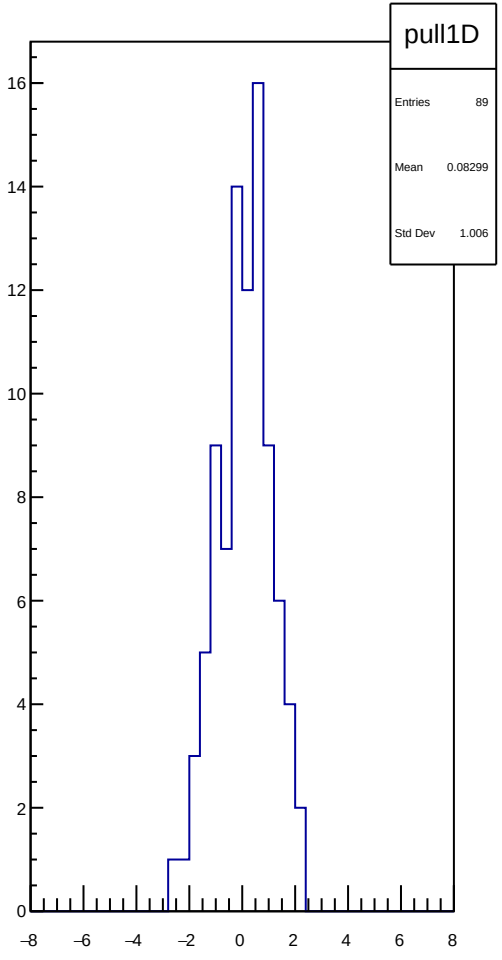

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.945e+04 / 88
p0 109.9 ± 0.08562
160
150
140
130
120
110
100
90

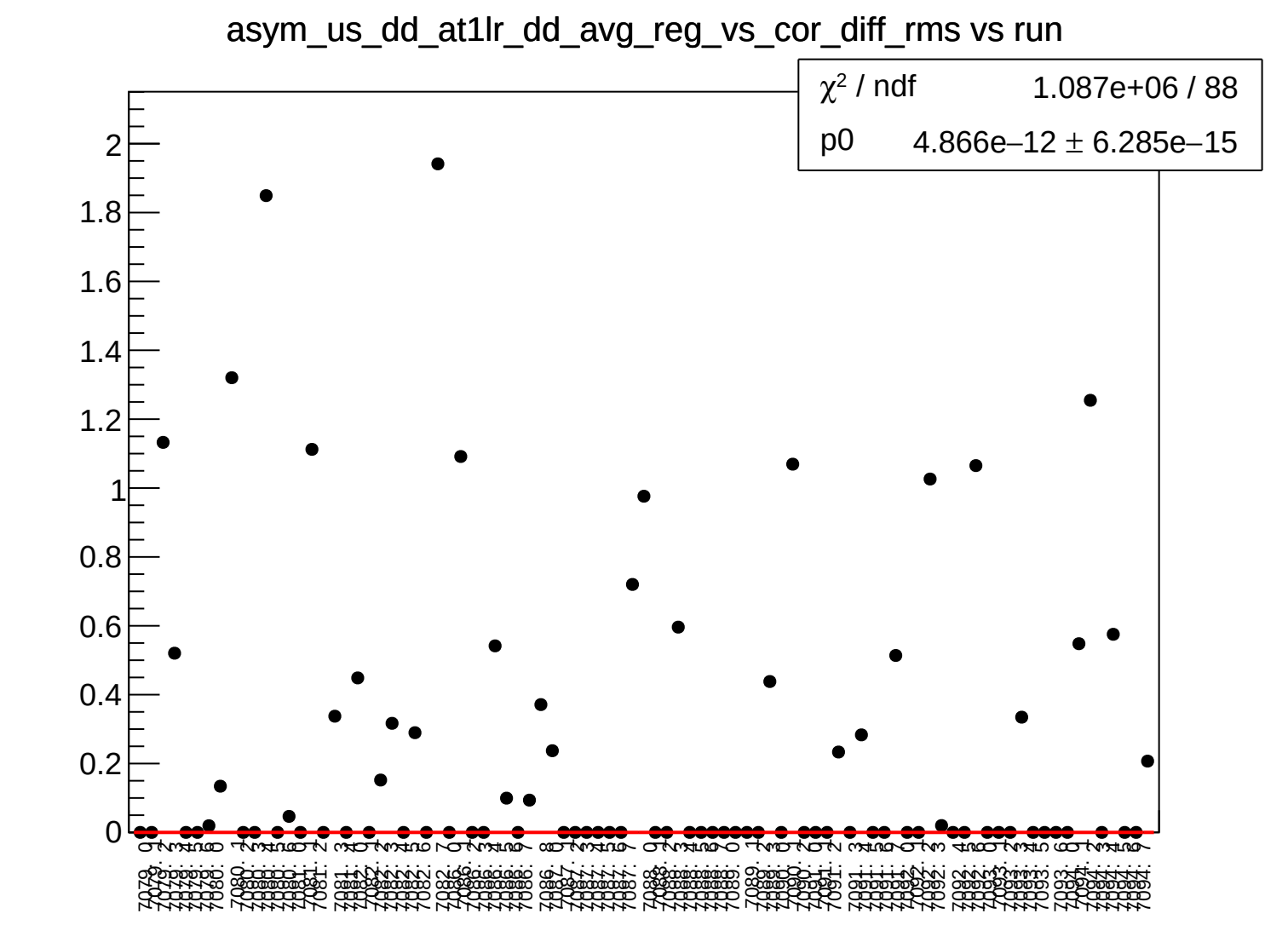

asym_us_dd_at1lr_dd_avg_mean vs run
χ^2 / ndf 70.6 / 88
p0 115.8 ± 2375
pull
Entries 89
Mean 198.7
Std Dev 0

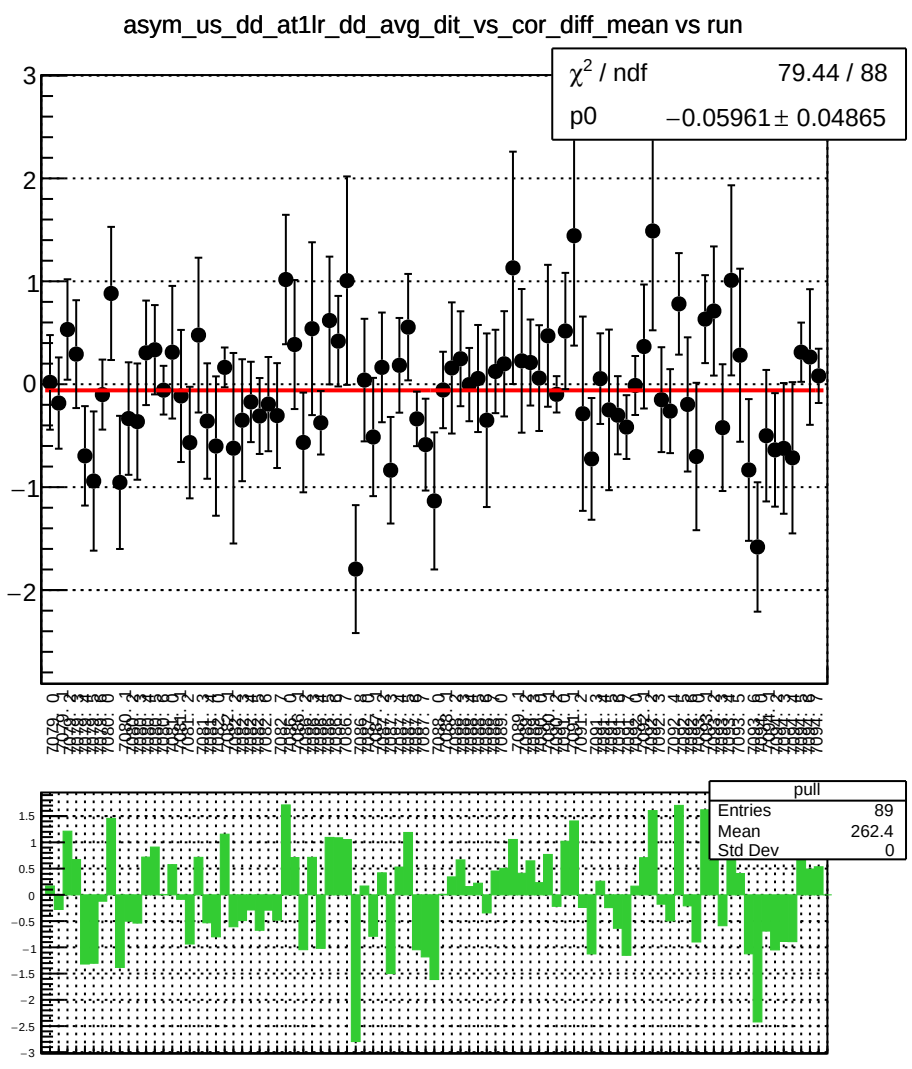

pull1D
Entries 89
Mean 0.007101
Std Dev 0.8906

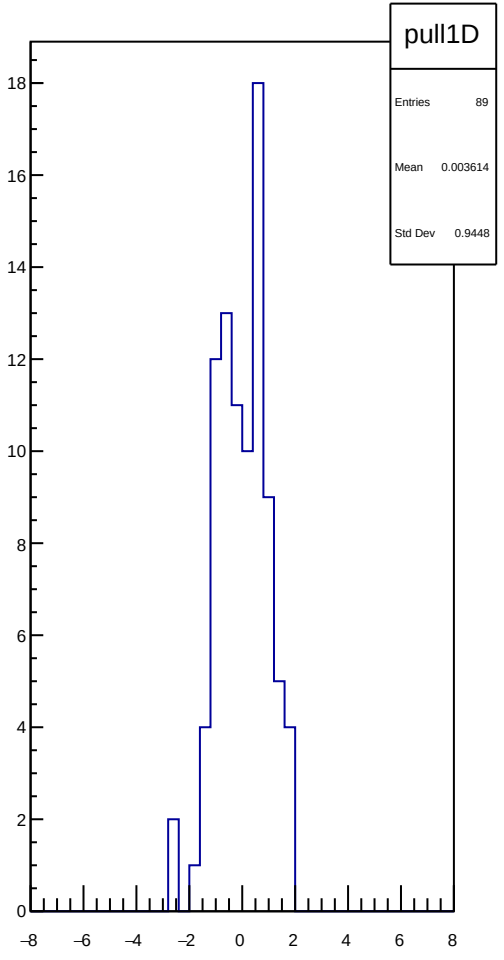

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 79.18 / 88
p0 2181 ± 1.679
2240
2220
2200
2180
2160
2140
2120

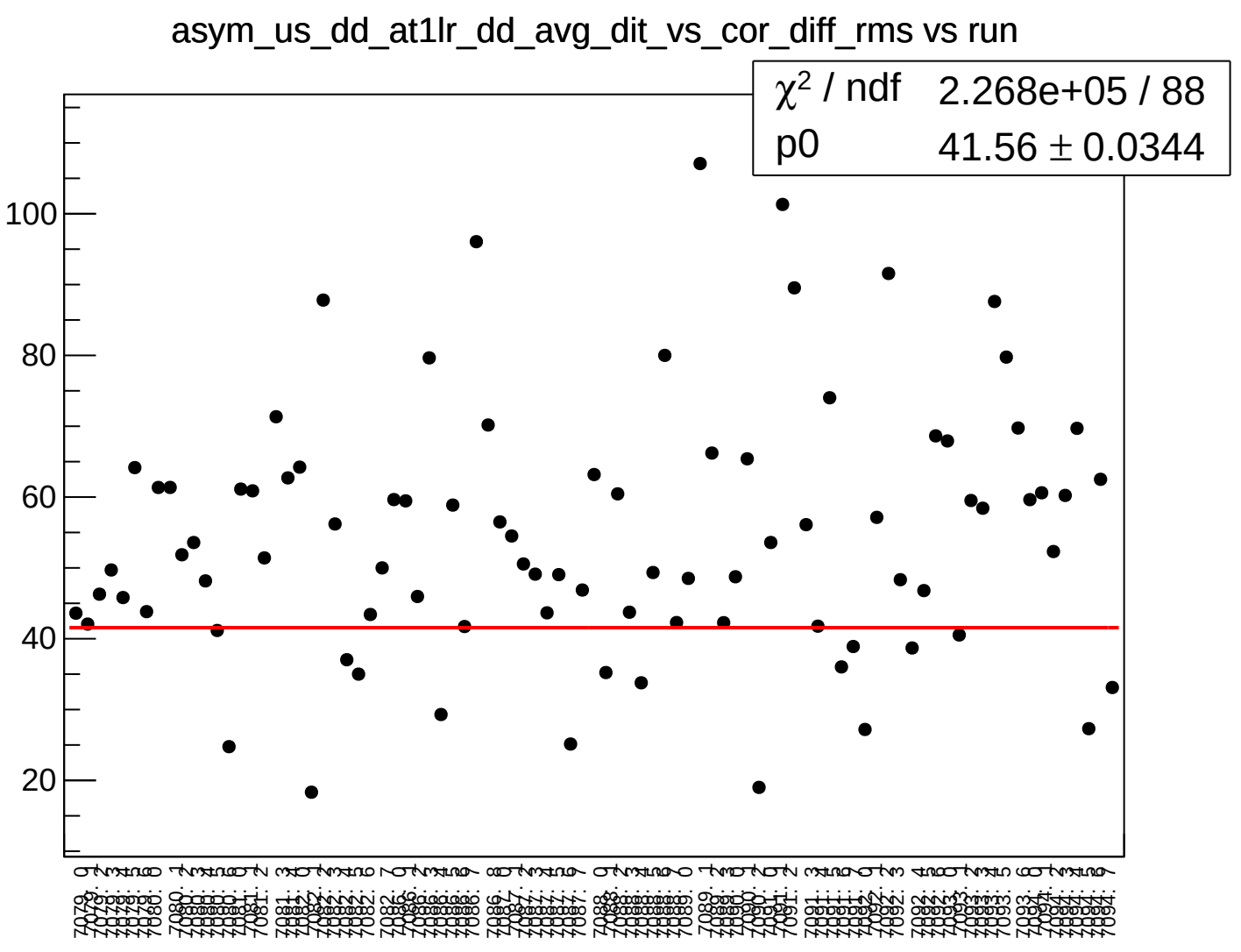

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.65 / 88
p0 8.795e−15 ± 8.889e−15
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 59.3
Std Dev 26.44
2
1
0
−1
−2

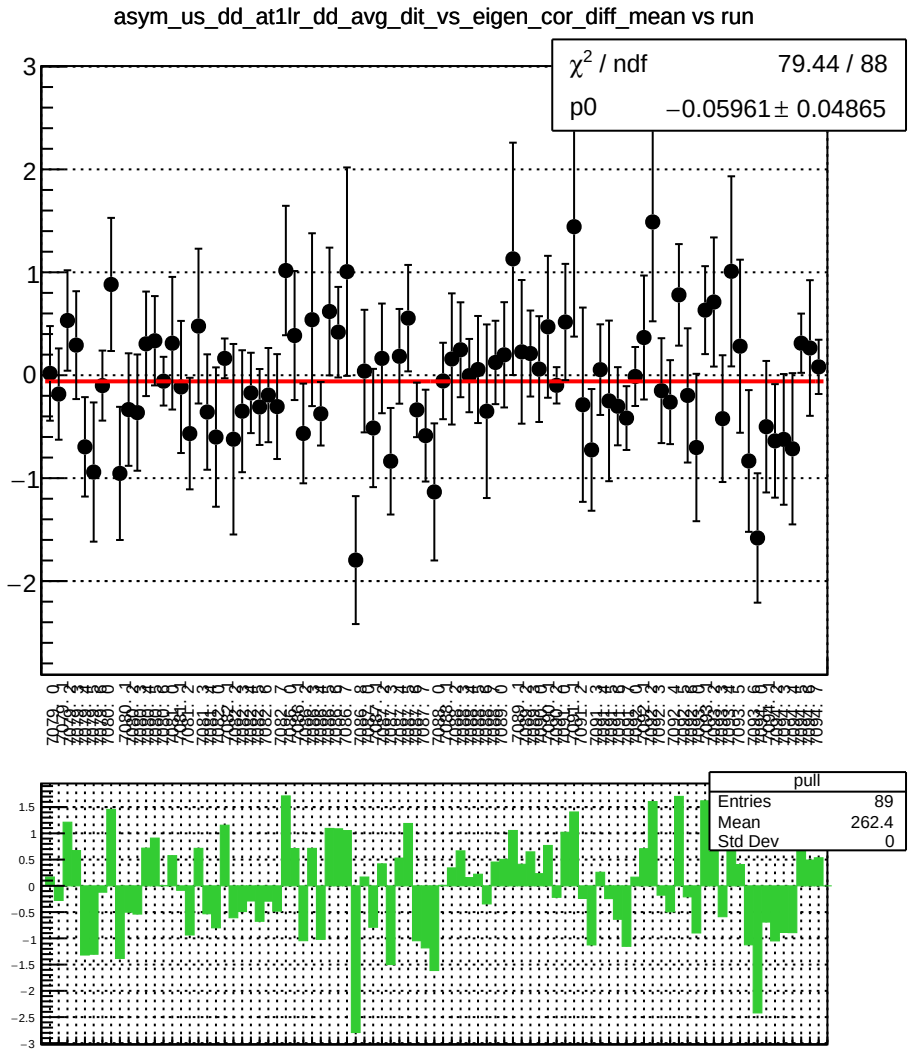

pull1D
Entries 89
Mean 0.08299
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

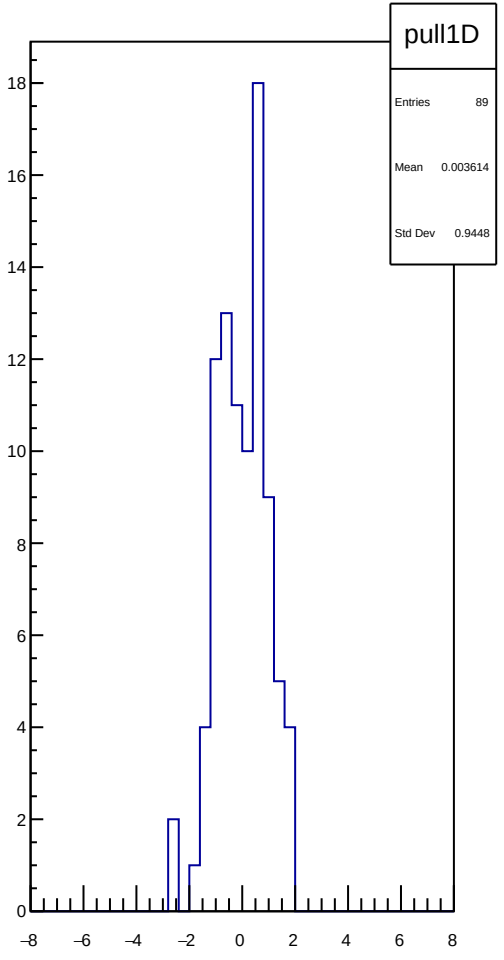

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.087e+06 / 88
p0 4.866e−12 ± 6.285e−15
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

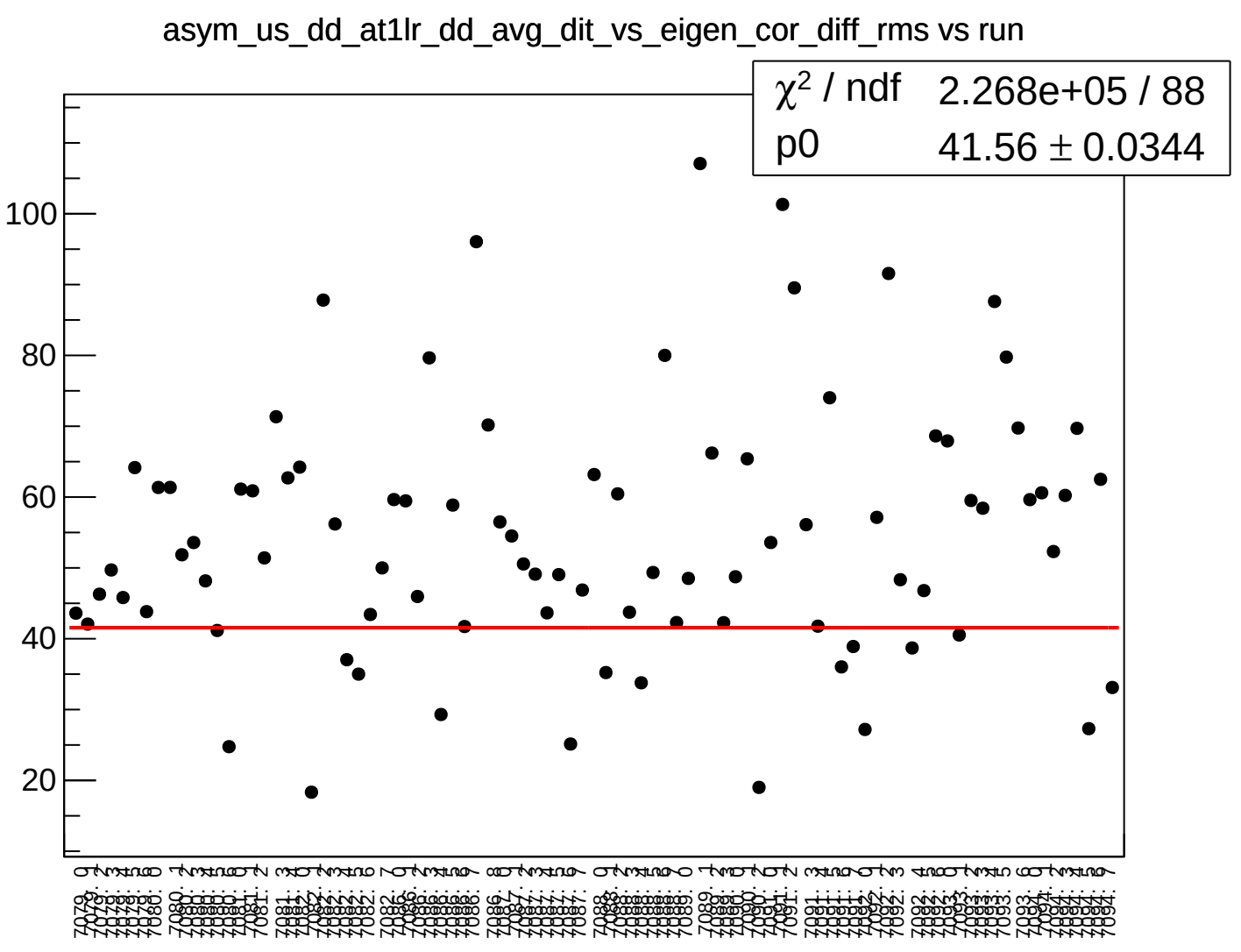

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.44 / 88
p0 −0.05961 ± 0.04865
pull
Entries 89
Mean 262.4
Std Dev 0

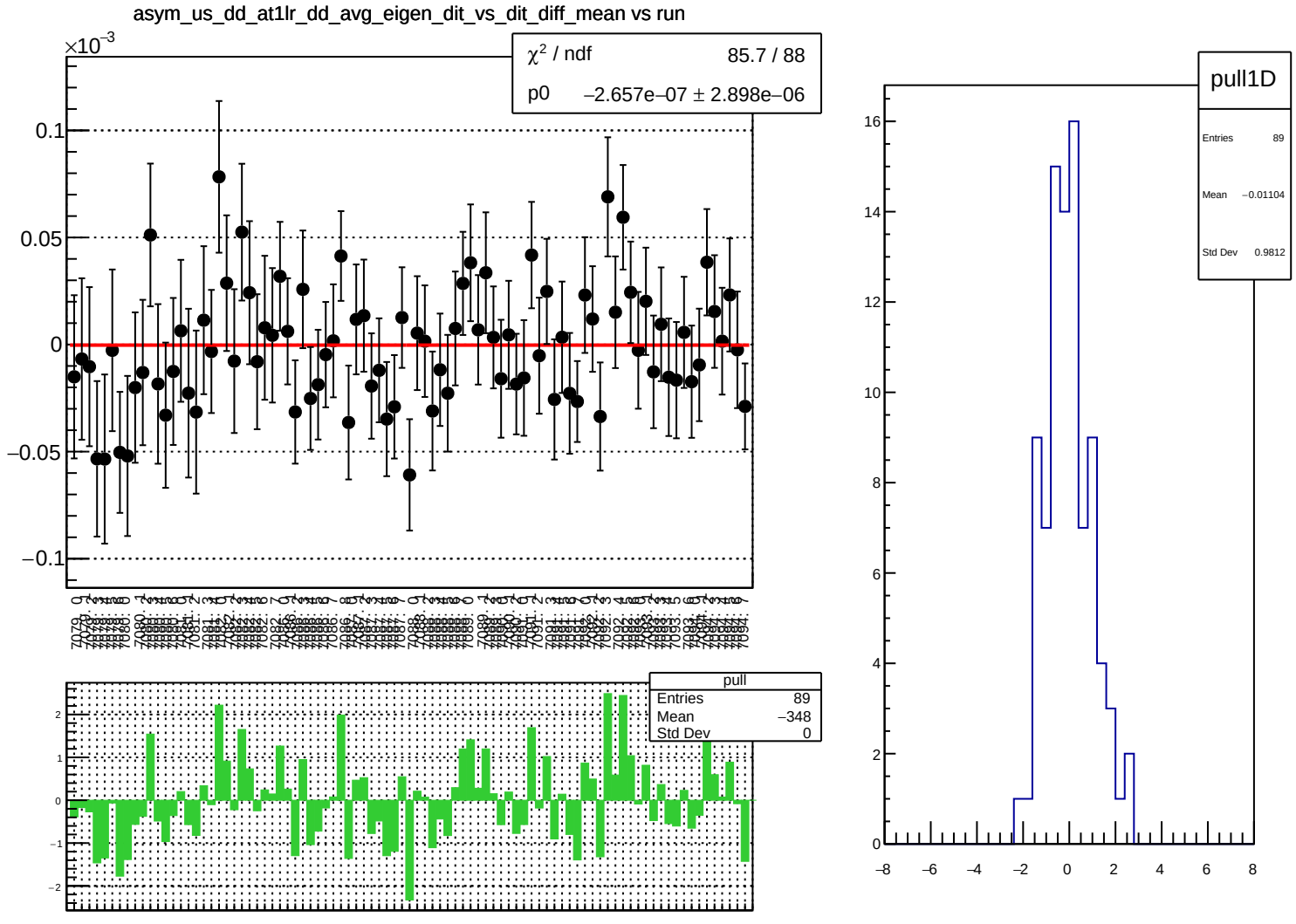

pull1D
Entries 89
Mean 0.003614
Std Dev 0.9448

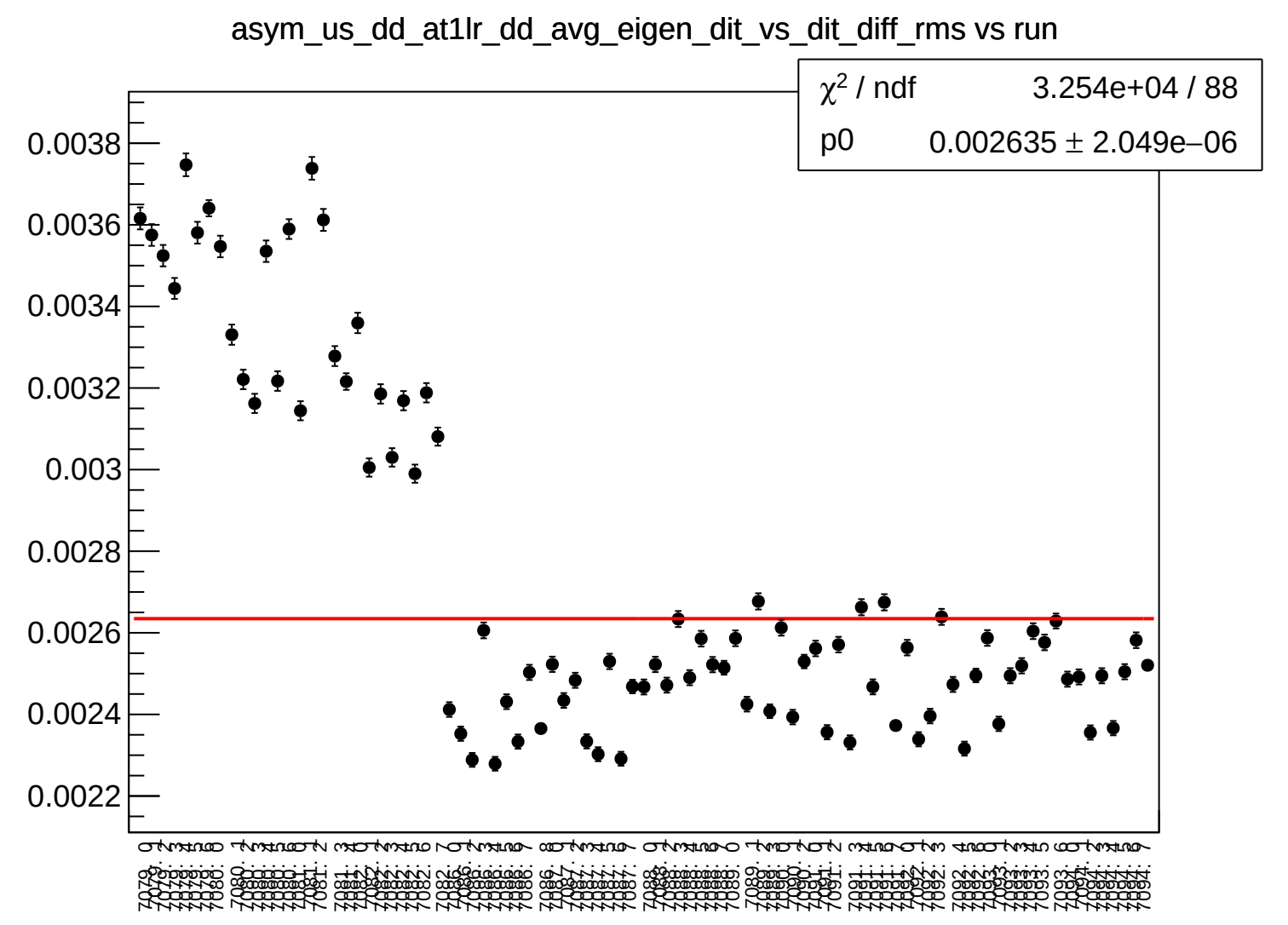

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.268e+05 / 88
p0 41.56 ± 0.0344
100
80
60
40
20

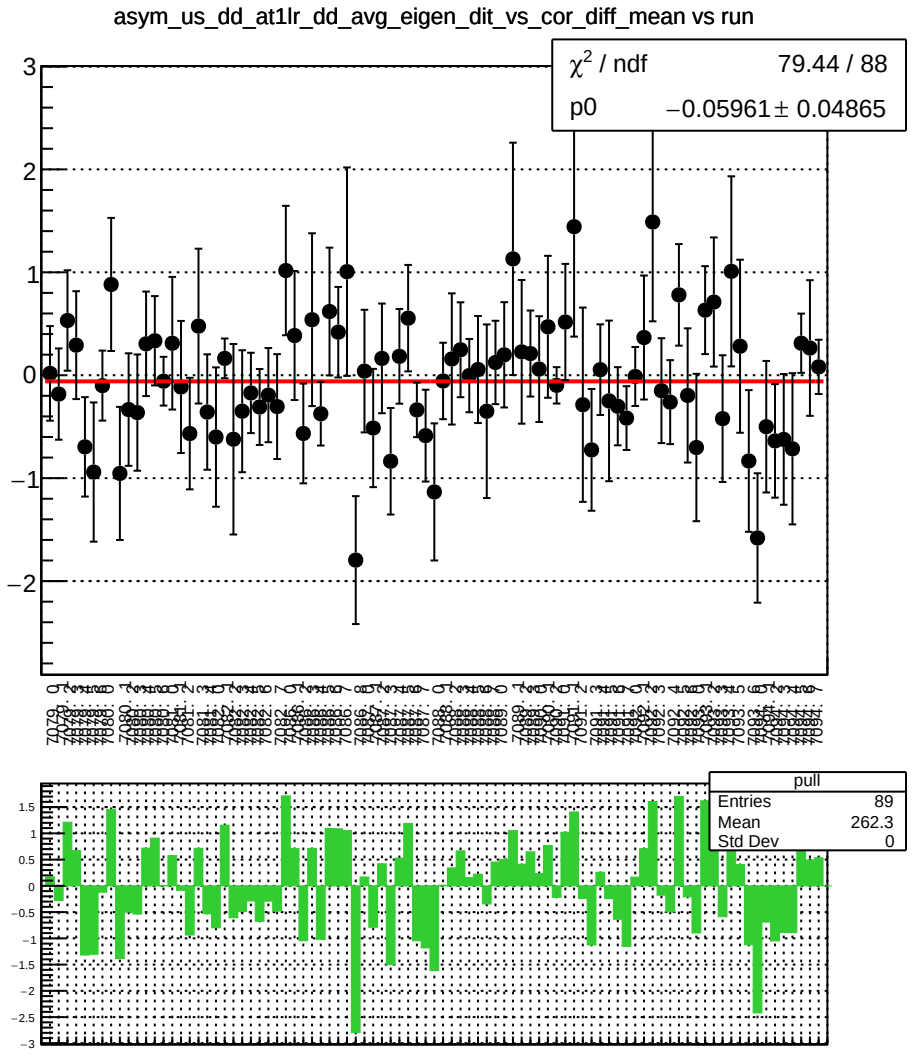

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.44 / 88
p0 −0.05961 ± 0.04865
pull
Entries 89
Mean 262.4
Std Dev 0

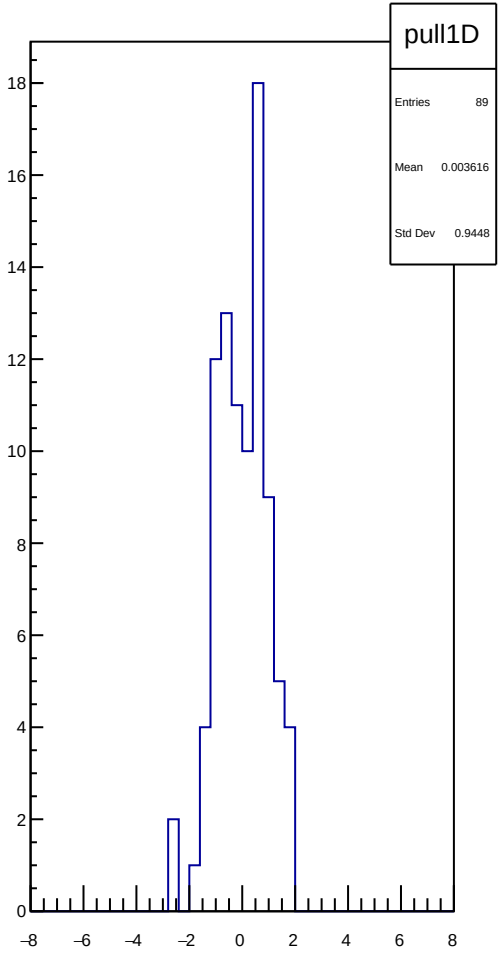

pull1D
Entries 89
Mean 0.003614
Std Dev 0.9448

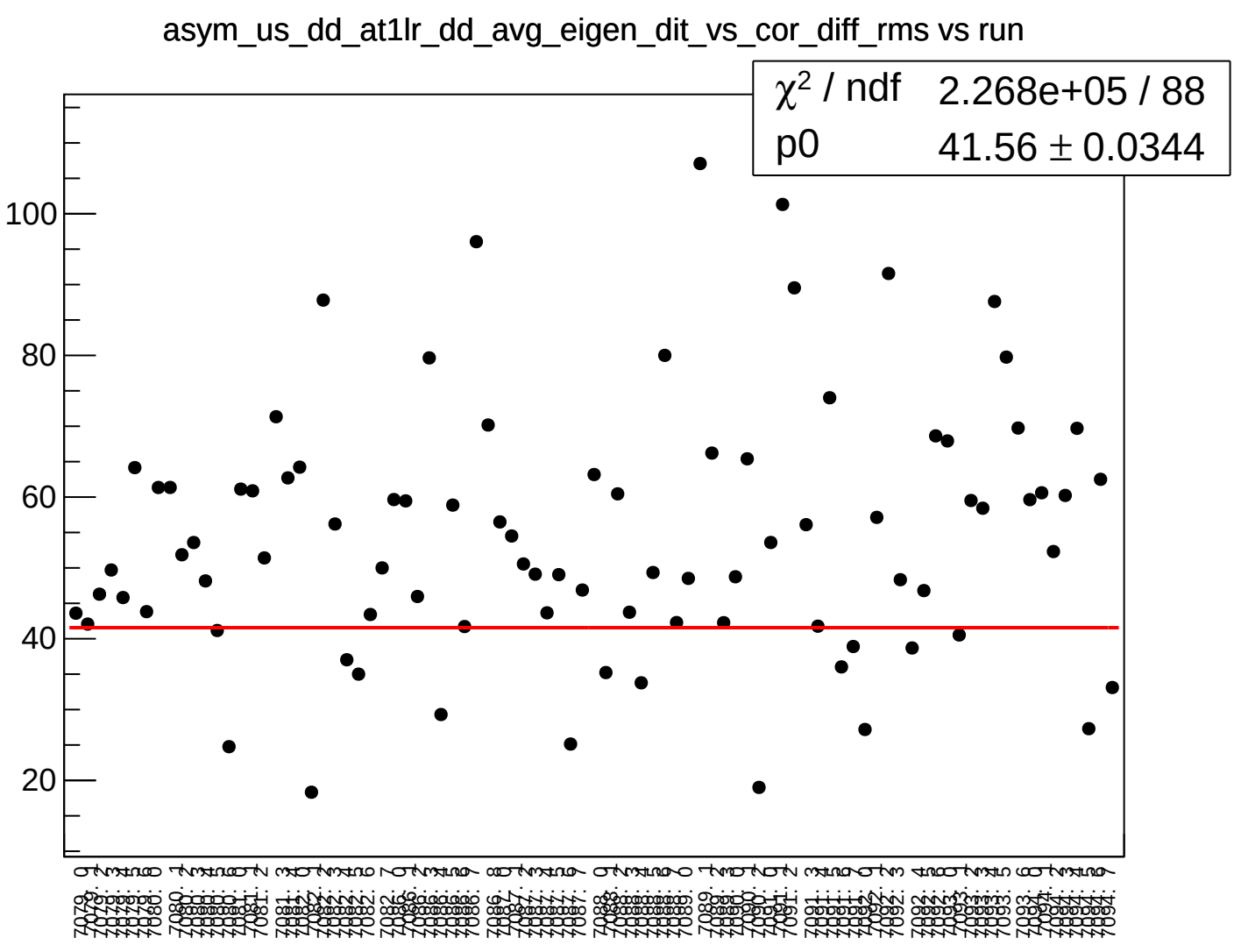

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.268e+05 / 88
p0 41.56 ± 0.0344
100
80
60
40
20

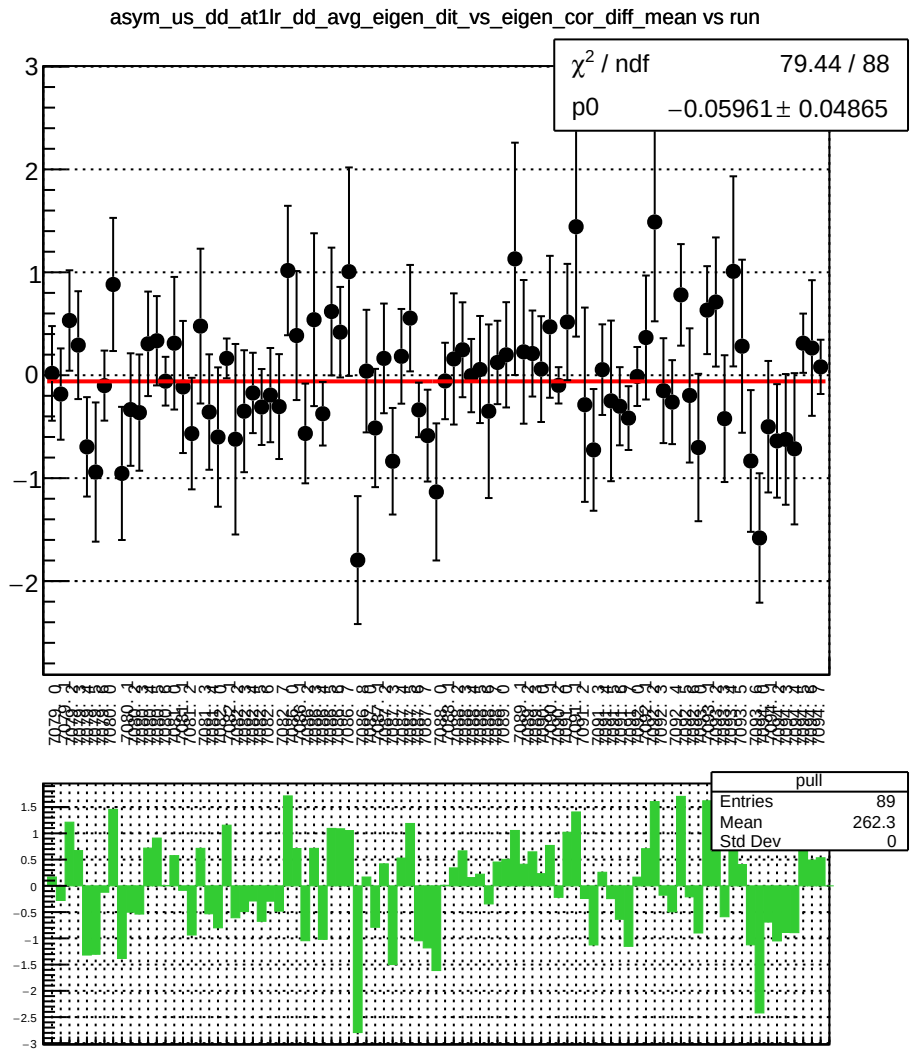

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.7 / 88
p0 −2.657e−07 ± 2.898e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −348
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01104
Std Dev 0.9812
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

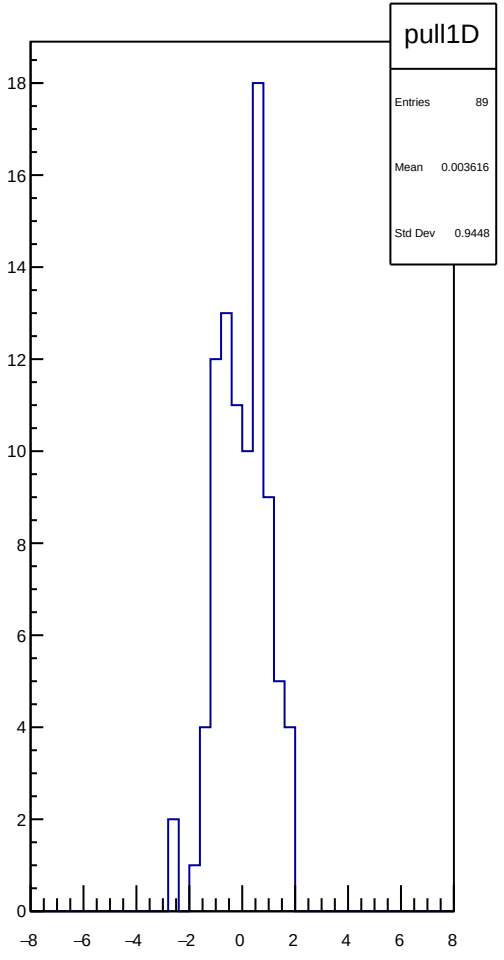

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.254e+04 / 88
p0 0.002635 ± 2.049e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

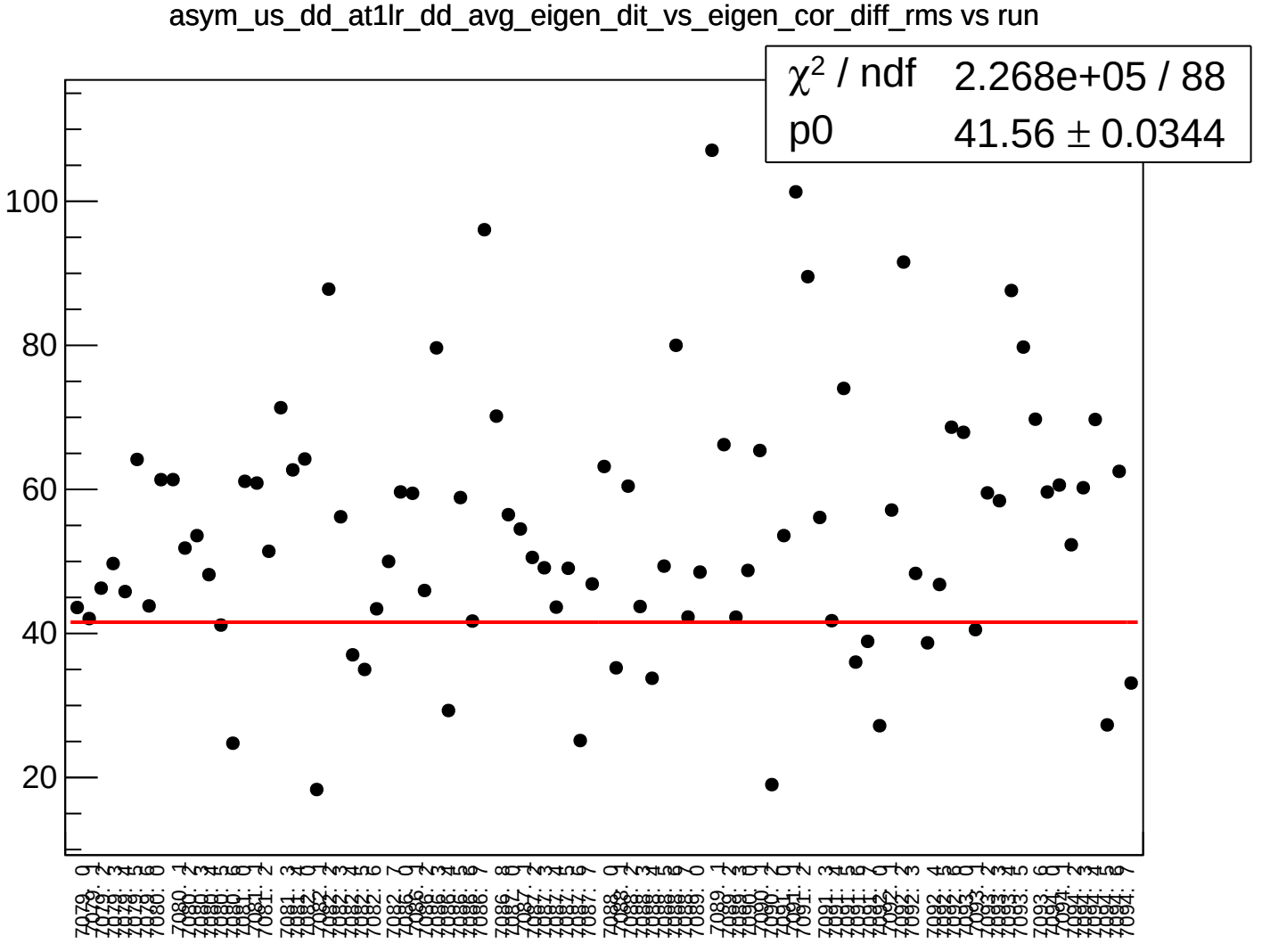

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.44 / 88
p0 −0.05961 ± 0.04865
pull
Entries 89
Mean 262.3
Std Dev 0

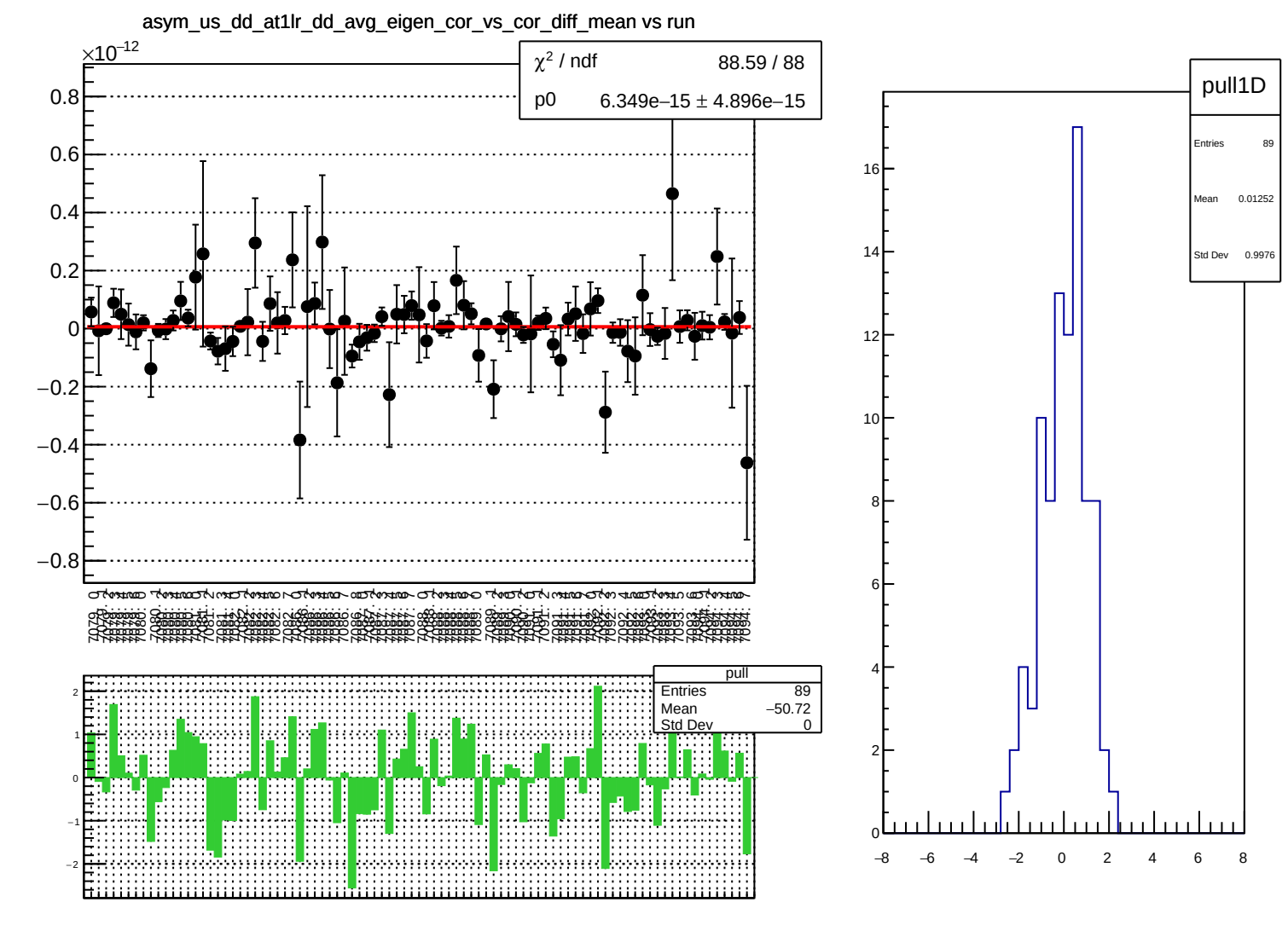

pull1D
Entries 89
Mean 0.003616
Std Dev 0.9448

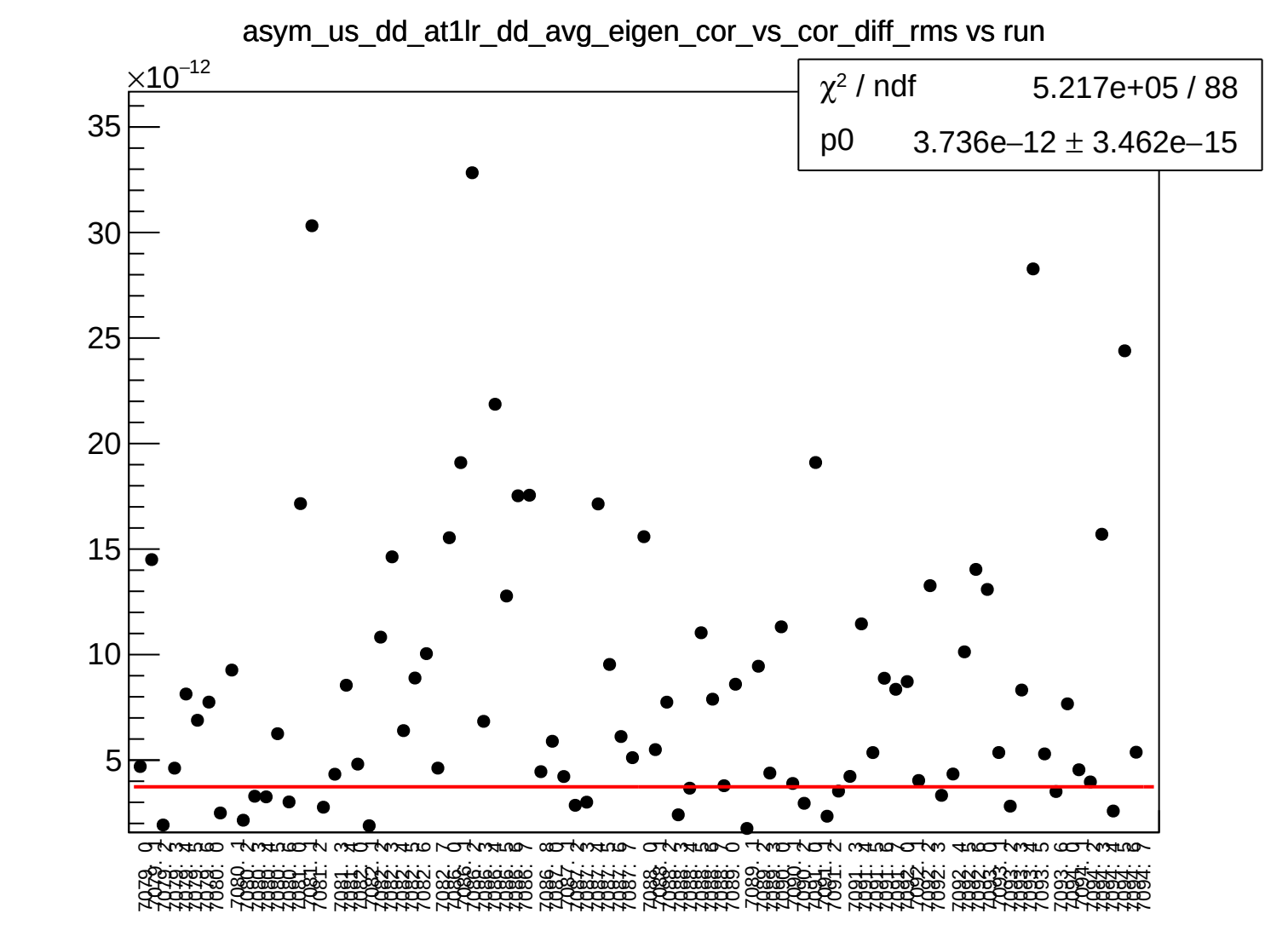

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.268e+05 / 88
p0 41.56 ± 0.0344
100
80
60
40
20

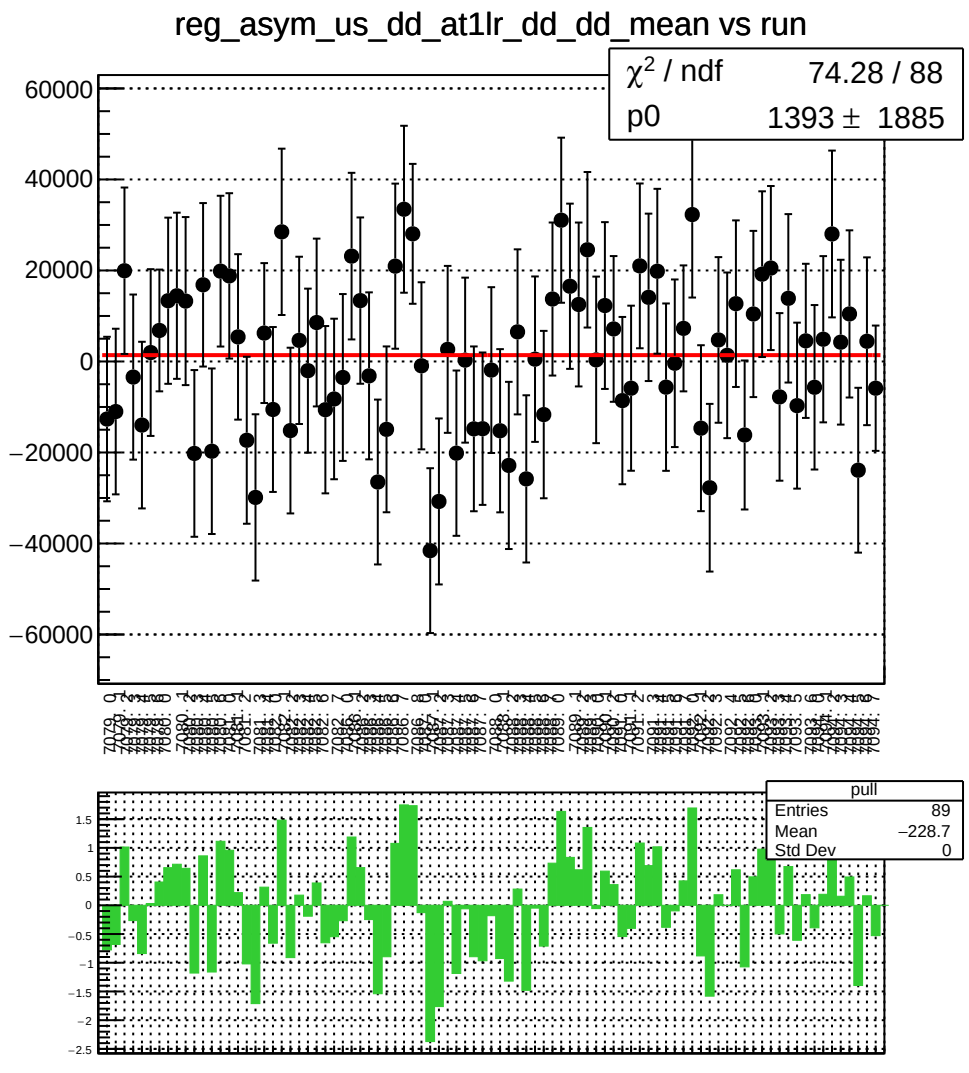

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.44 / 88
p0 −0.05961 ± 0.04865
pull
Entries 89
Mean 262.3
Std Dev 0

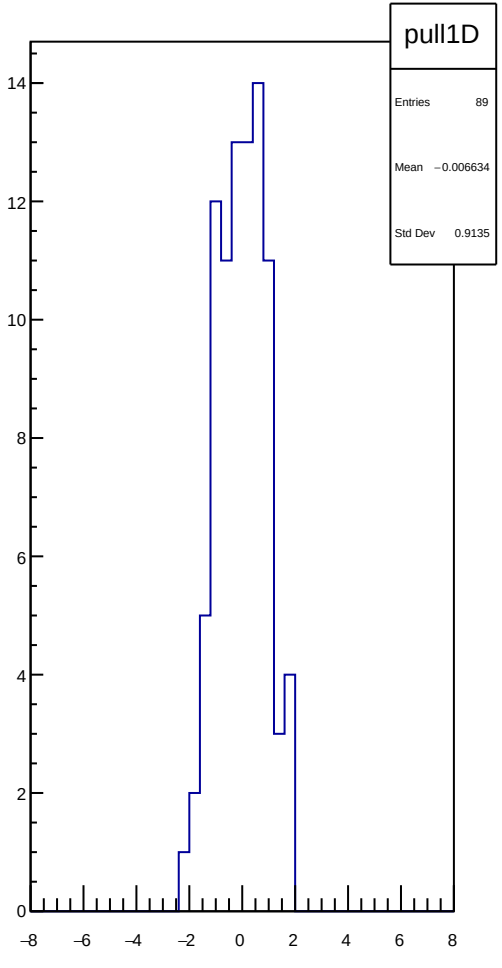

pull1D
Entries 89
Mean 0.003616
Std Dev 0.9448

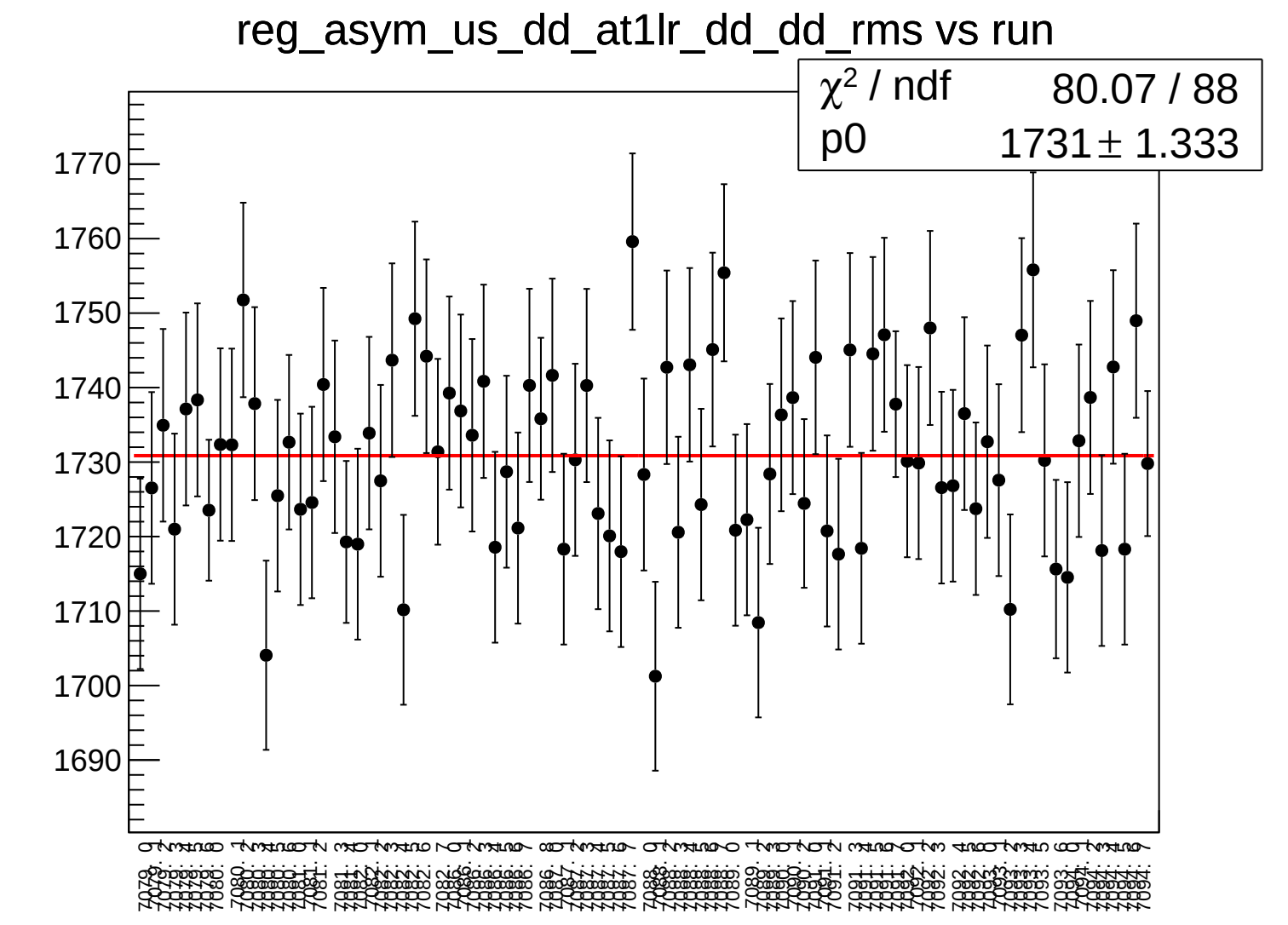

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.268e+05 / 88
p0 41.56 ± 0.0344
100
80
60
40
20

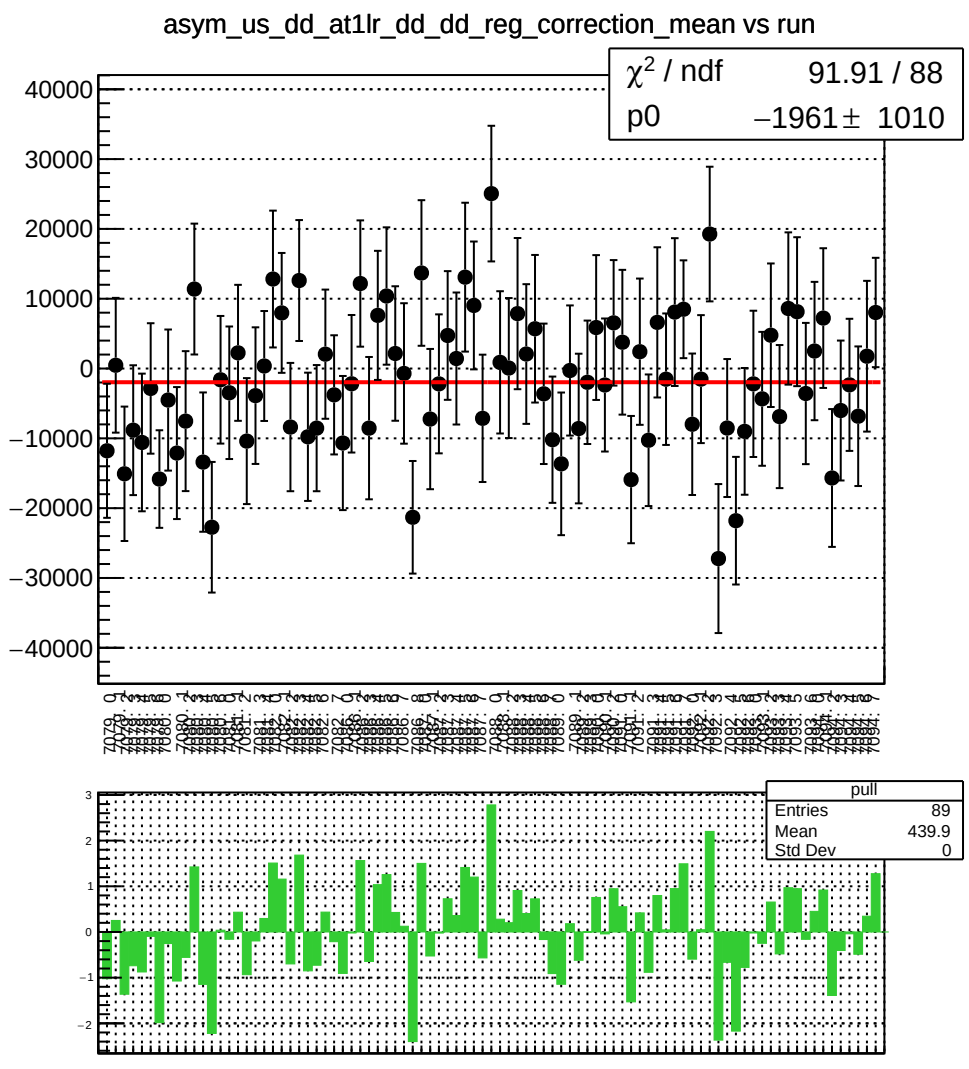

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.59 / 88
p0 6.349e−15 ± 4.896e−15
pull
Entries 89
Mean −50.72
Std Dev 0
pull1D
Entries 89
Mean 0.01252
Std Dev 0.9976

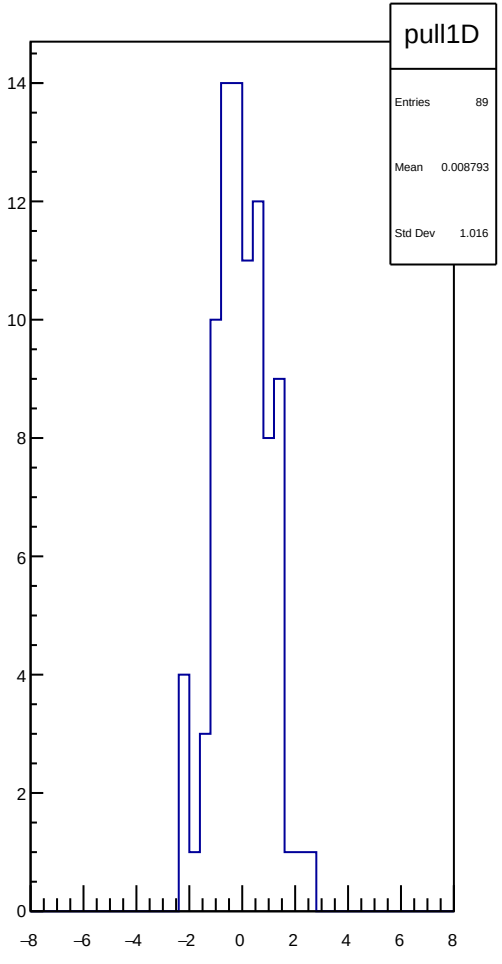

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.217e+05 / 88
p0 3.736e−12 ± 3.462e−15
35
30
25
20
15
10
5

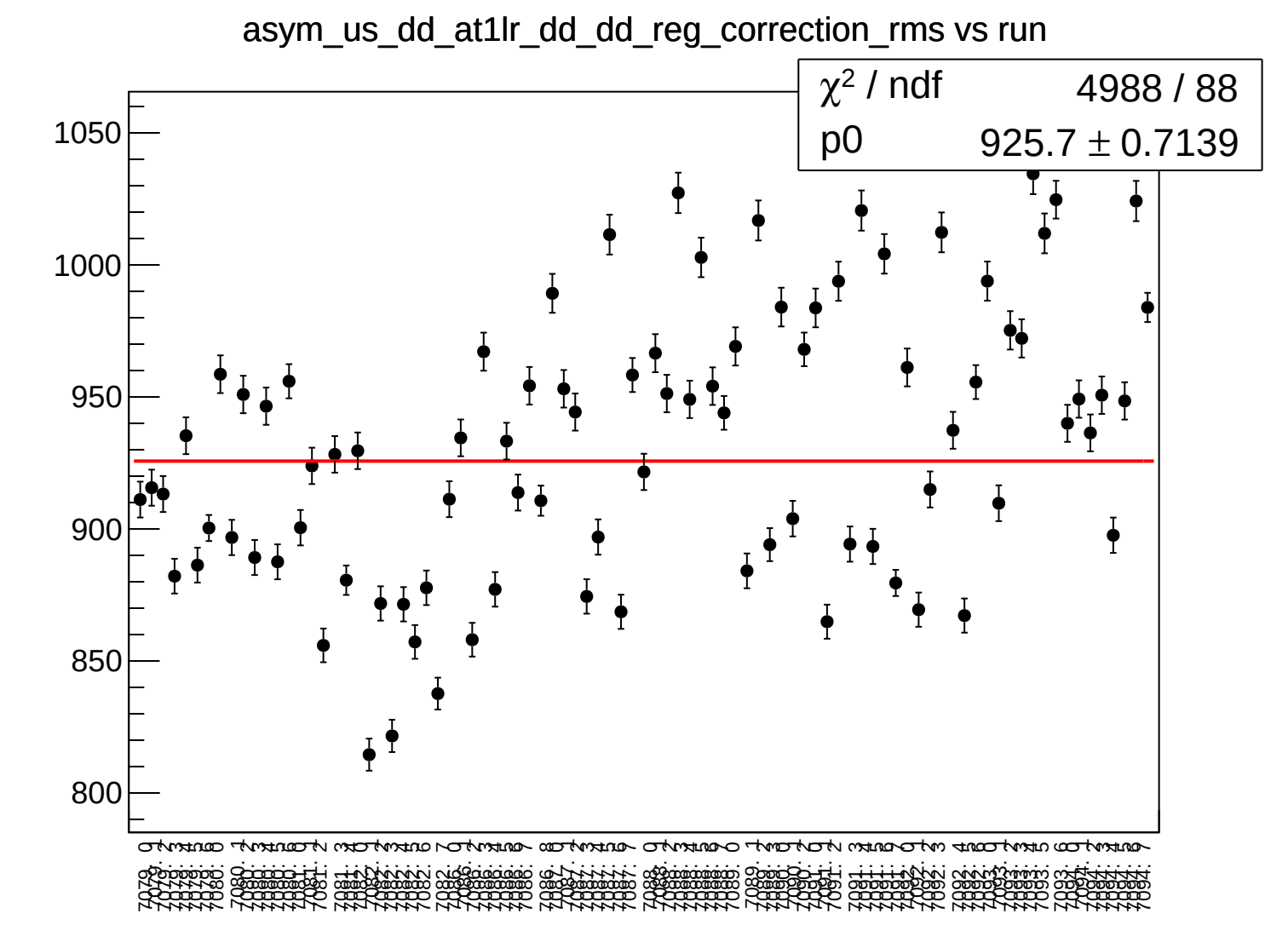

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 74.28 / 88
p0 1393 ± 1885
pull
Entries 89
Mean −228.7
Std Dev 0

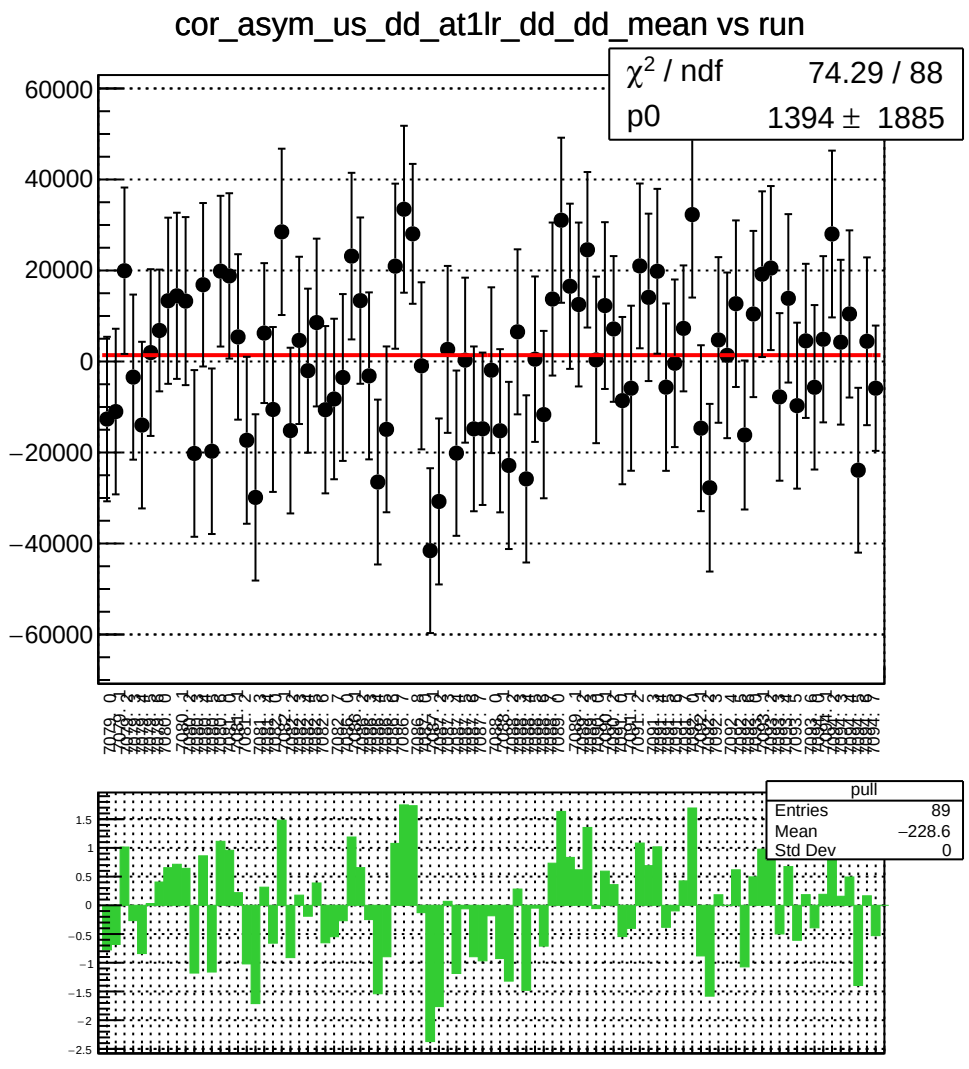

pull1D
Entries 89
Mean −0.006634
Std Dev 0.9135

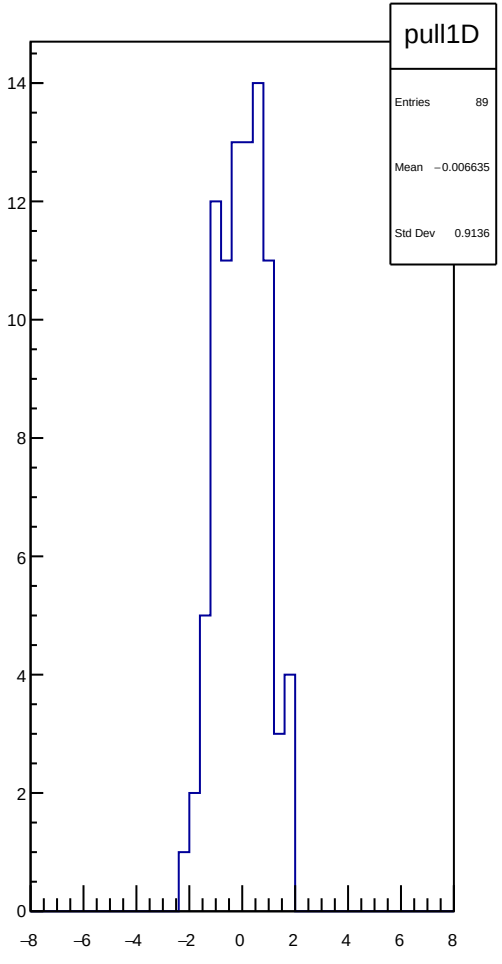

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 80.07 / 88
p0 1731 ± 1.333
1770
1760
1750
1740
1730
1720
1710
1700
1690

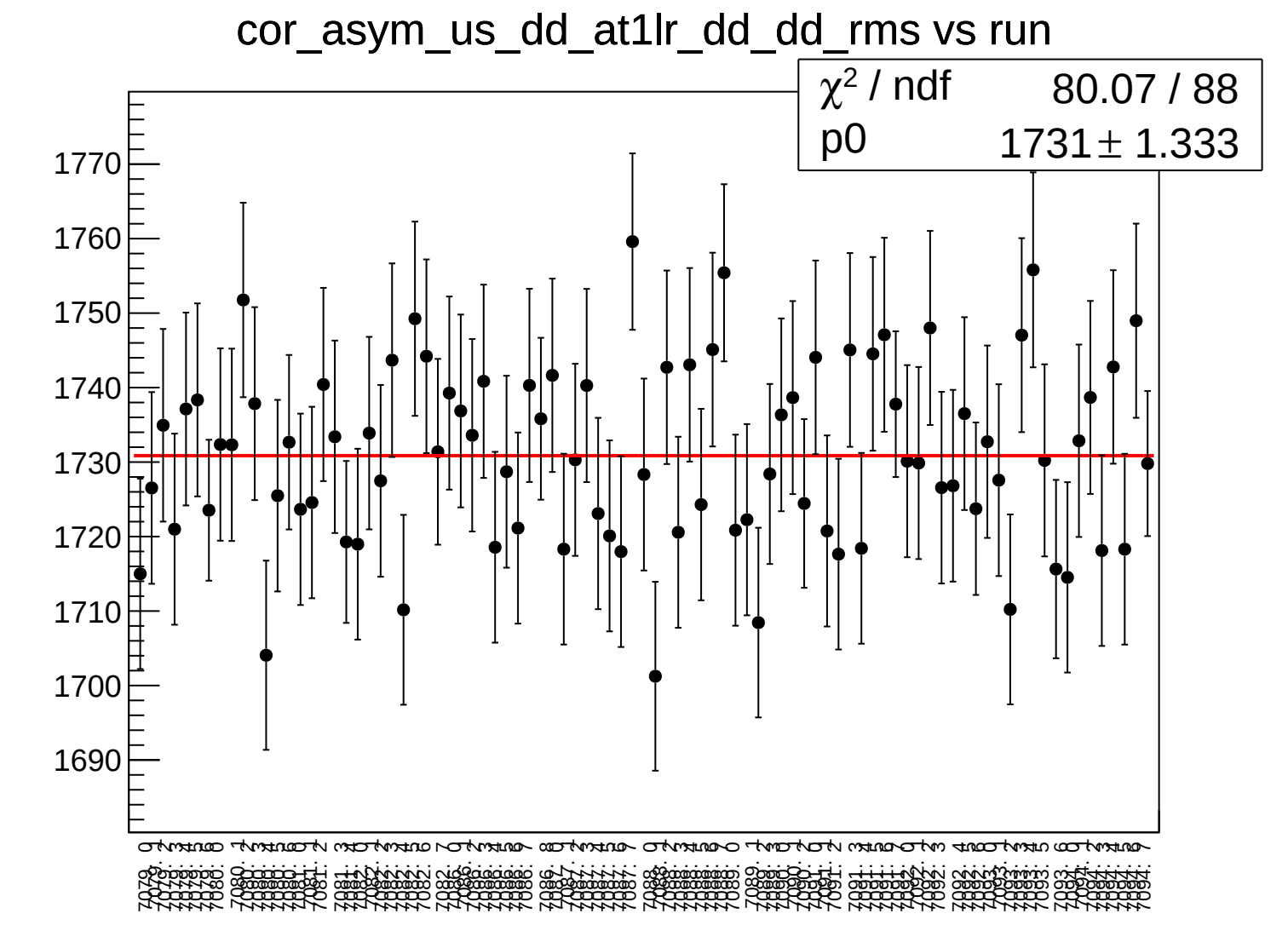

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 91.91 / 88
p0 −1961 ± 1010
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 439.9
Std Dev 0
3
2
1
0
−1
−2

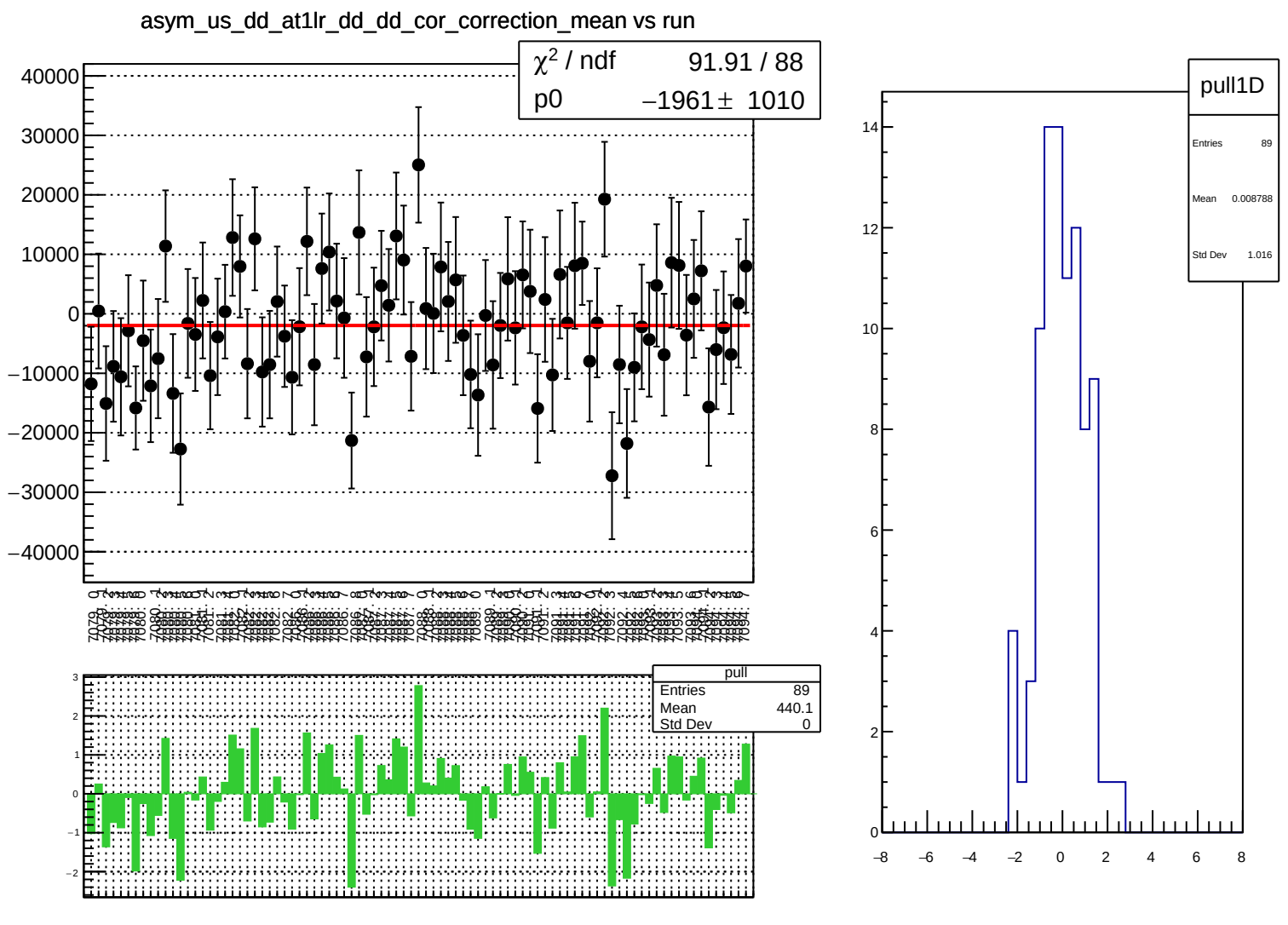

pull1D
Entries 89
Mean 0.008793
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

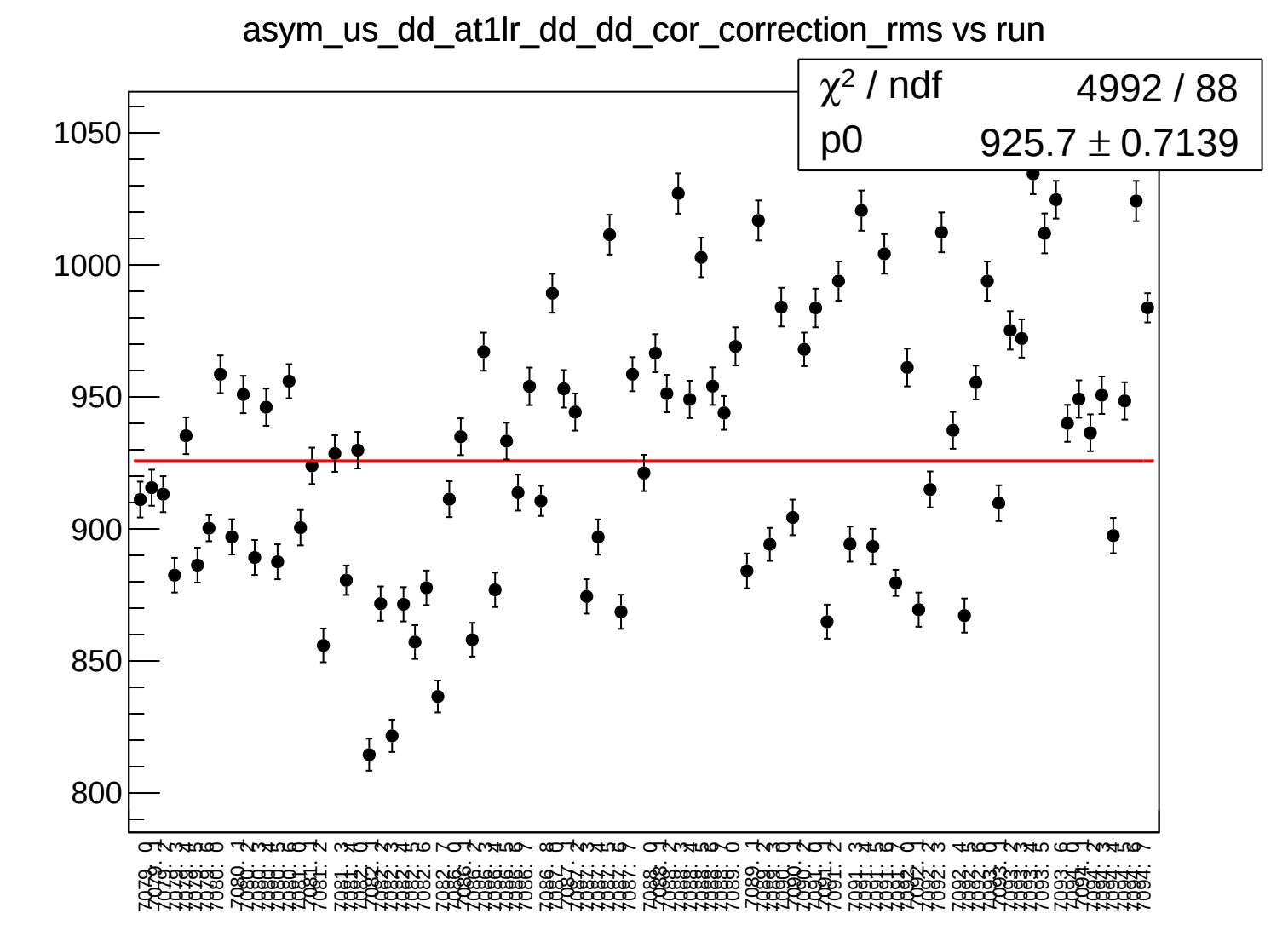

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 4988 / 88
p0 925.7 ± 0.7139
1050
1000
950
900
850
800

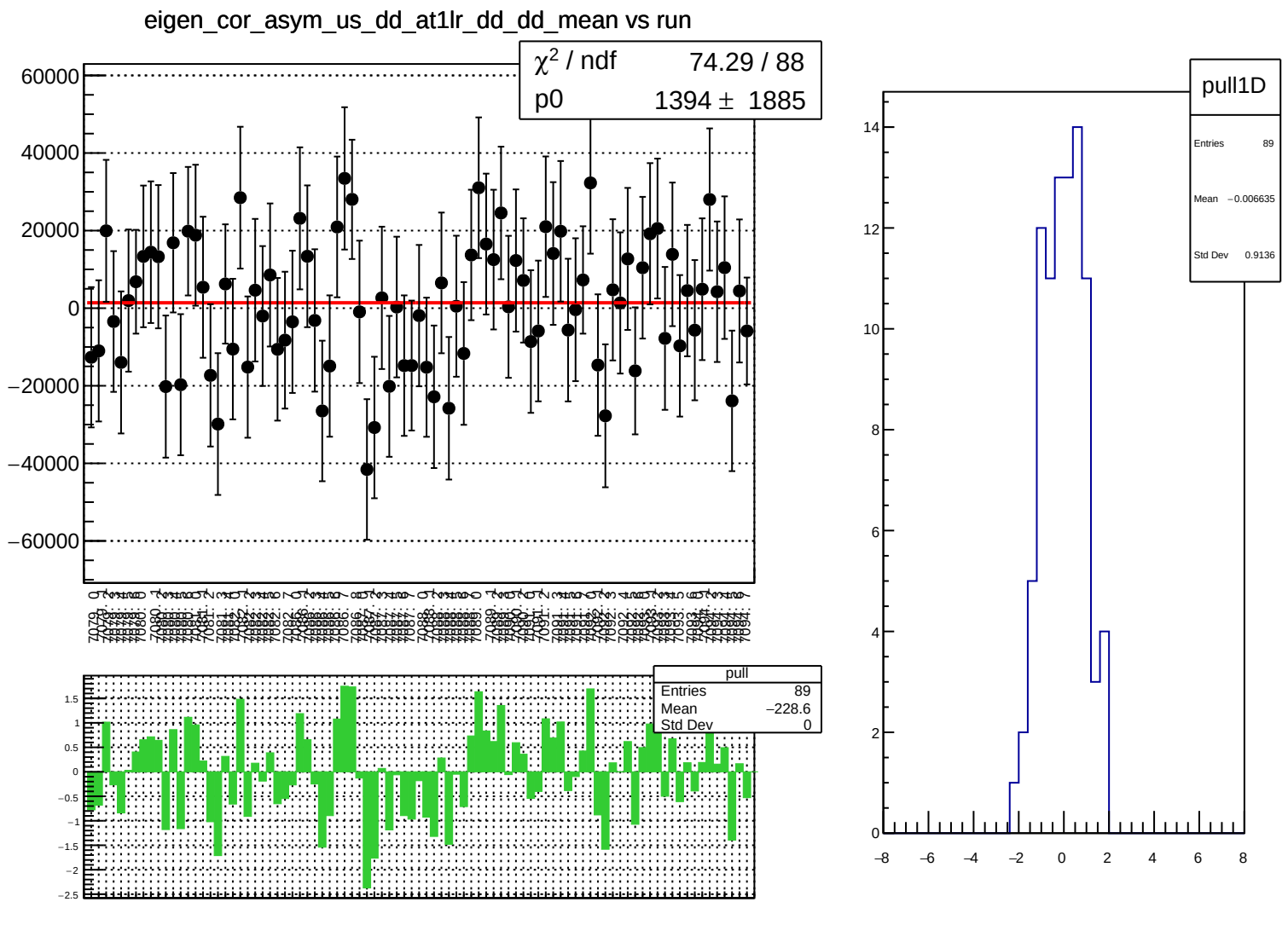

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 74.29 / 88
p0 1394 ± 1885
pull
Entries 89
Mean −228.6
Std Dev 0

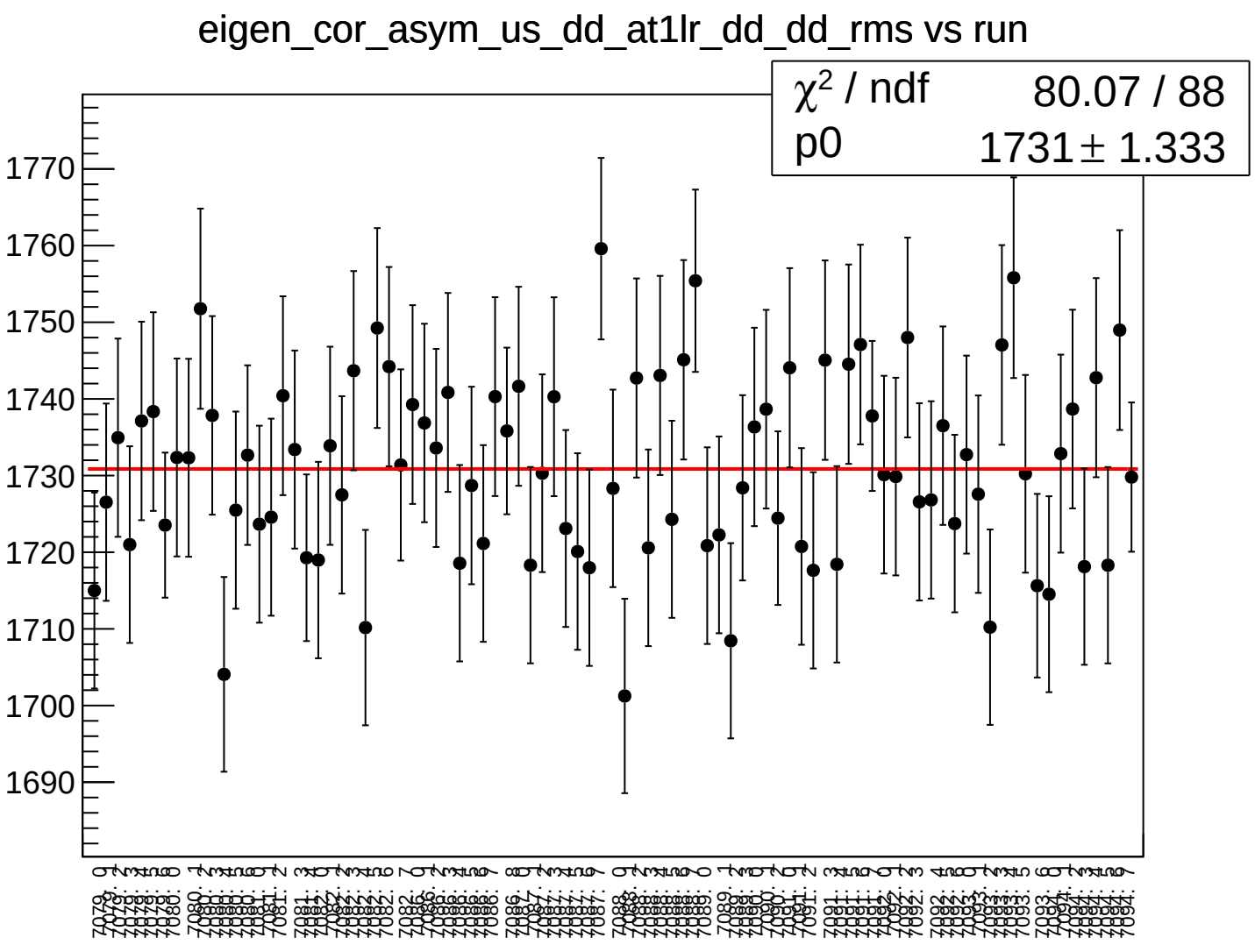

pull1D
Entries 89
Mean −0.006635
Std Dev 0.9136

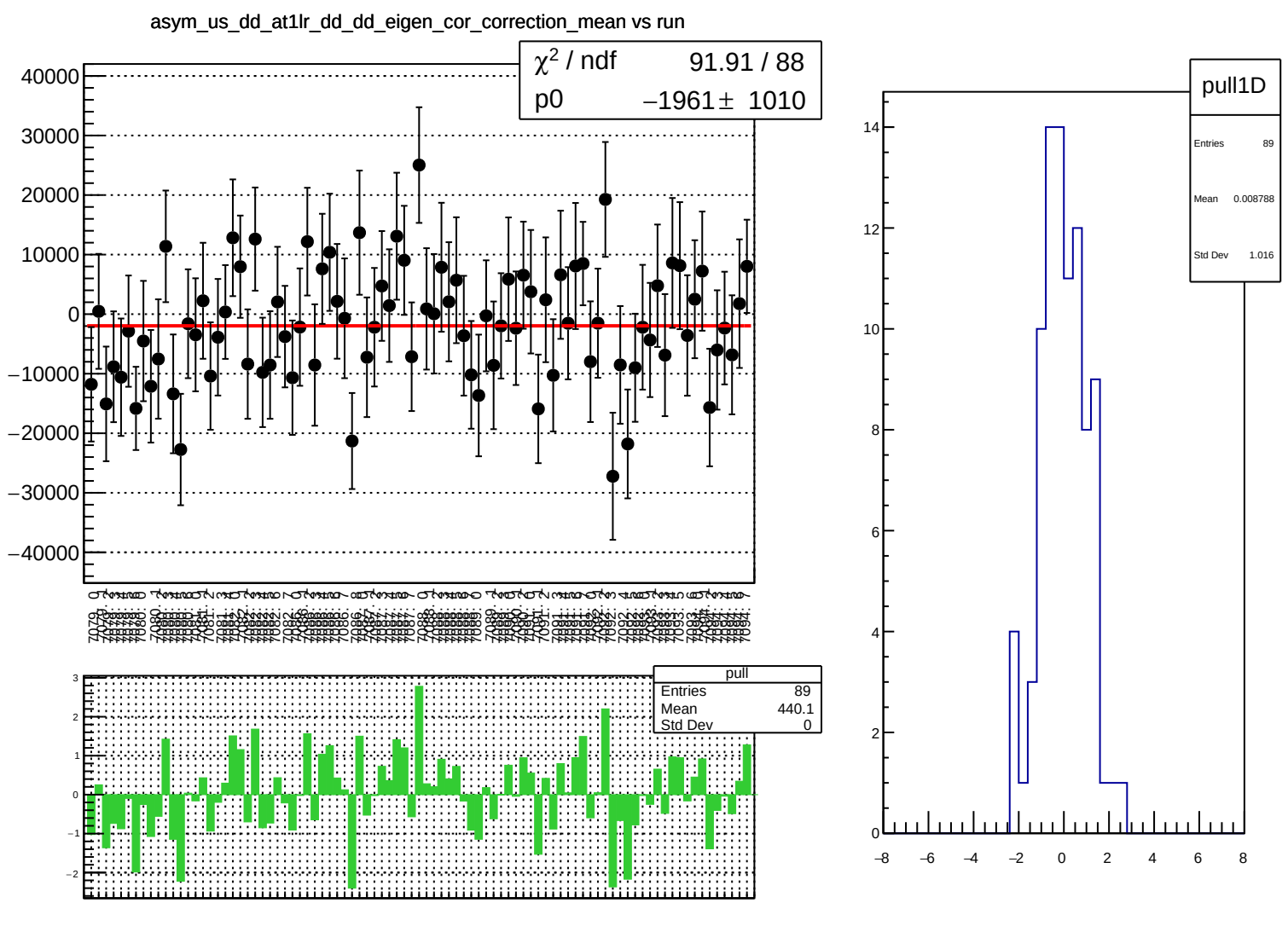

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 80.07 / 88
p0 1731 ± 1.333
1770
1760
1750
1740
1730
1720
1710
1700
1690

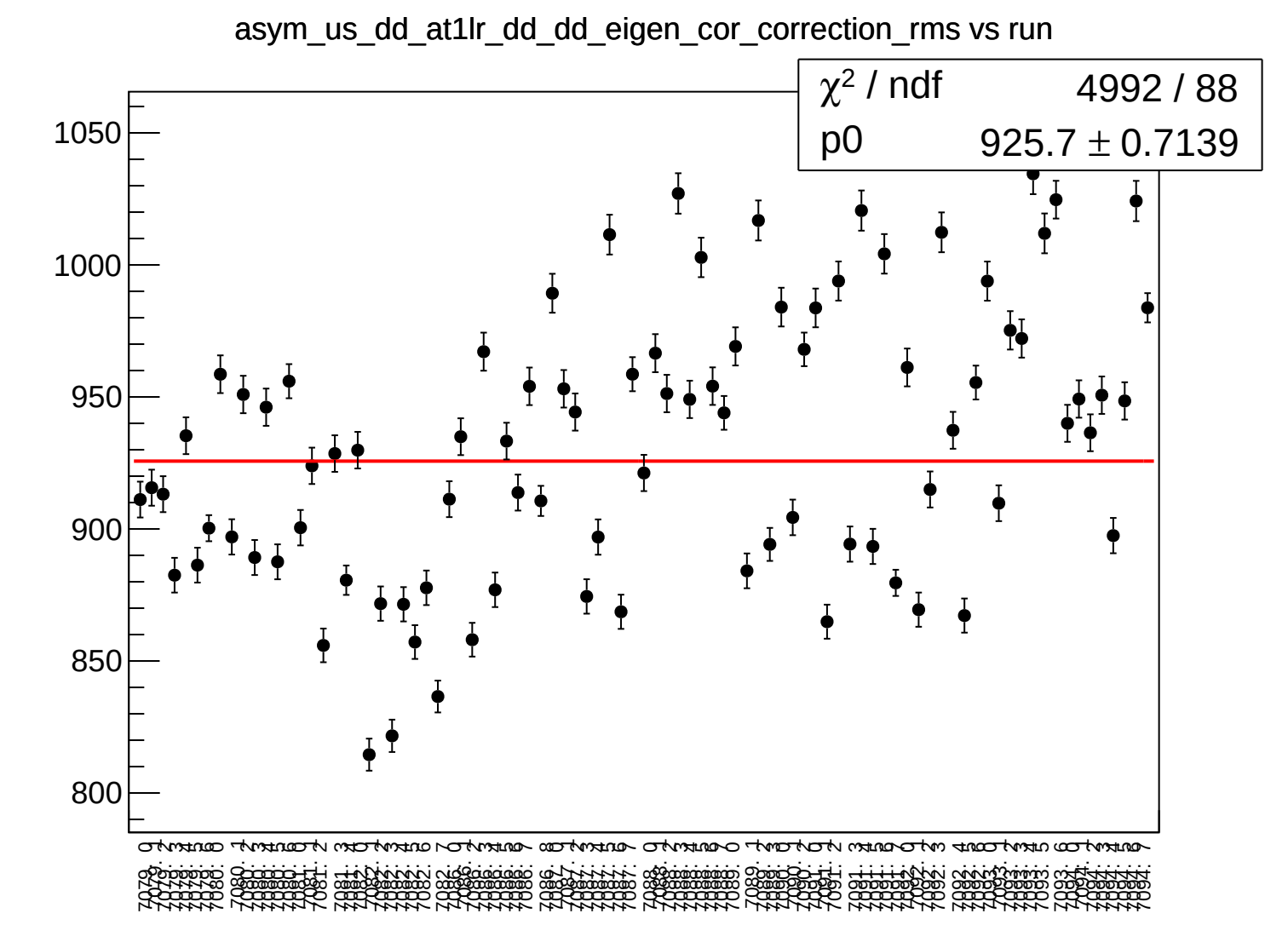

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 91.91 / 88
p0 −1961 ± 1010
pull
Entries 89
Mean 440.1
Std Dev 0
pull1D
Entries 89
Mean 0.008788
Std Dev 1.016

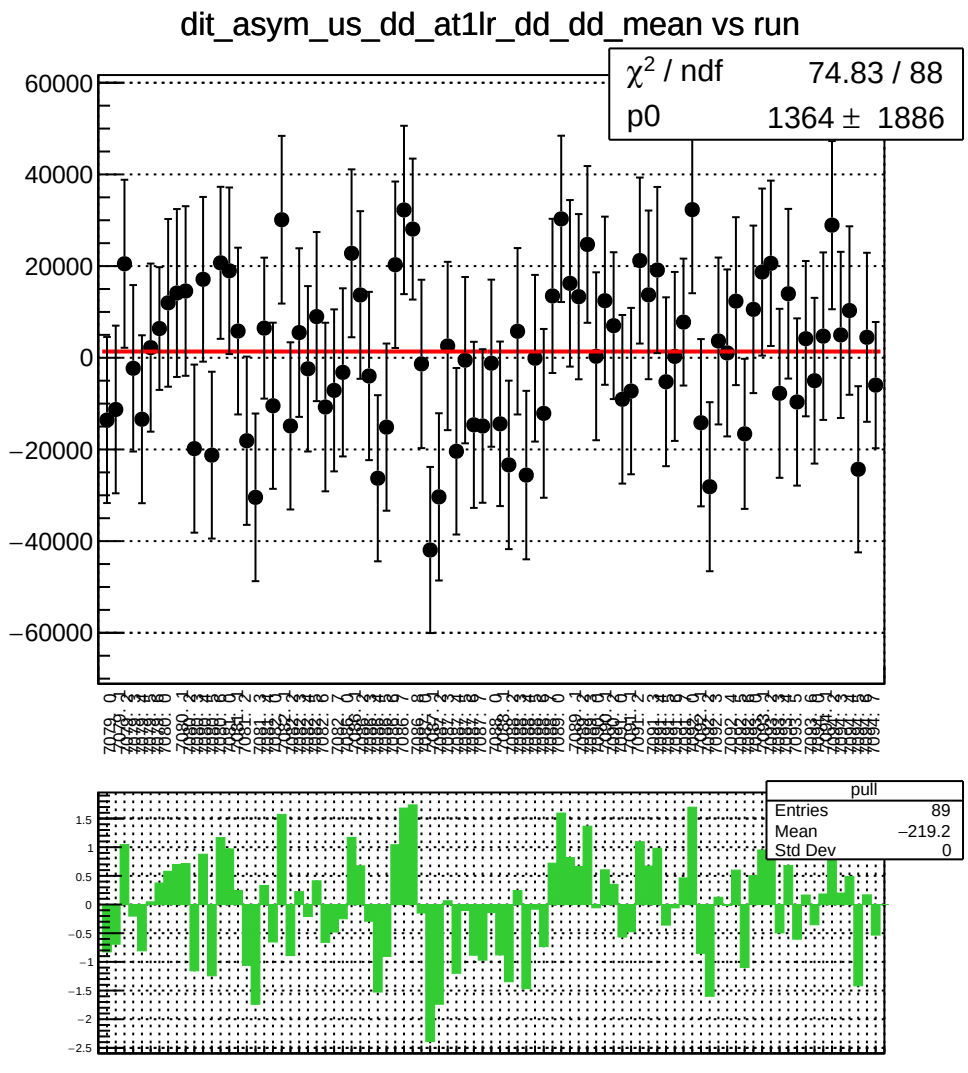

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4992 / 88
p0 925.7 ± 0.7139
1050
1000
950
900
850
800

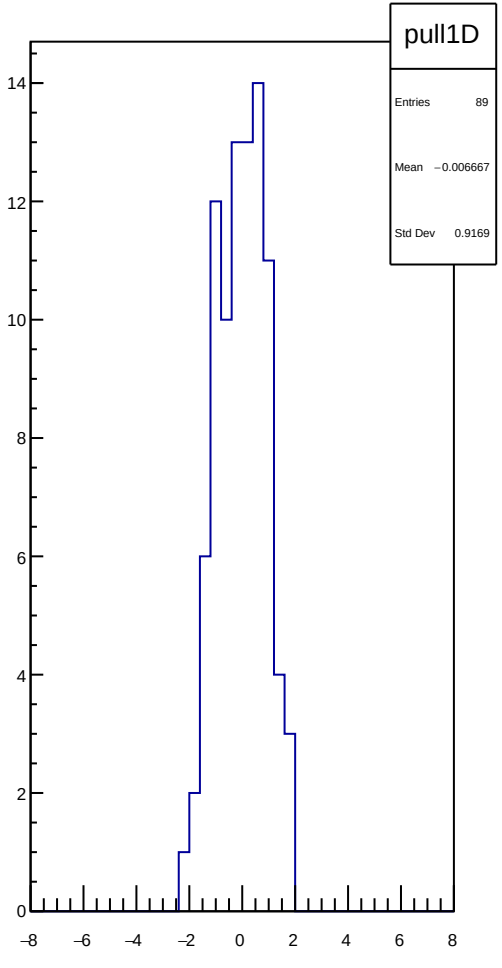

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 74.29 / 88
p0 1394 ± 1885
pull
Entries 89
Mean −228.6
Std Dev 0
pull1D
Entries 89
Mean −0.006635
Std Dev 0.9136

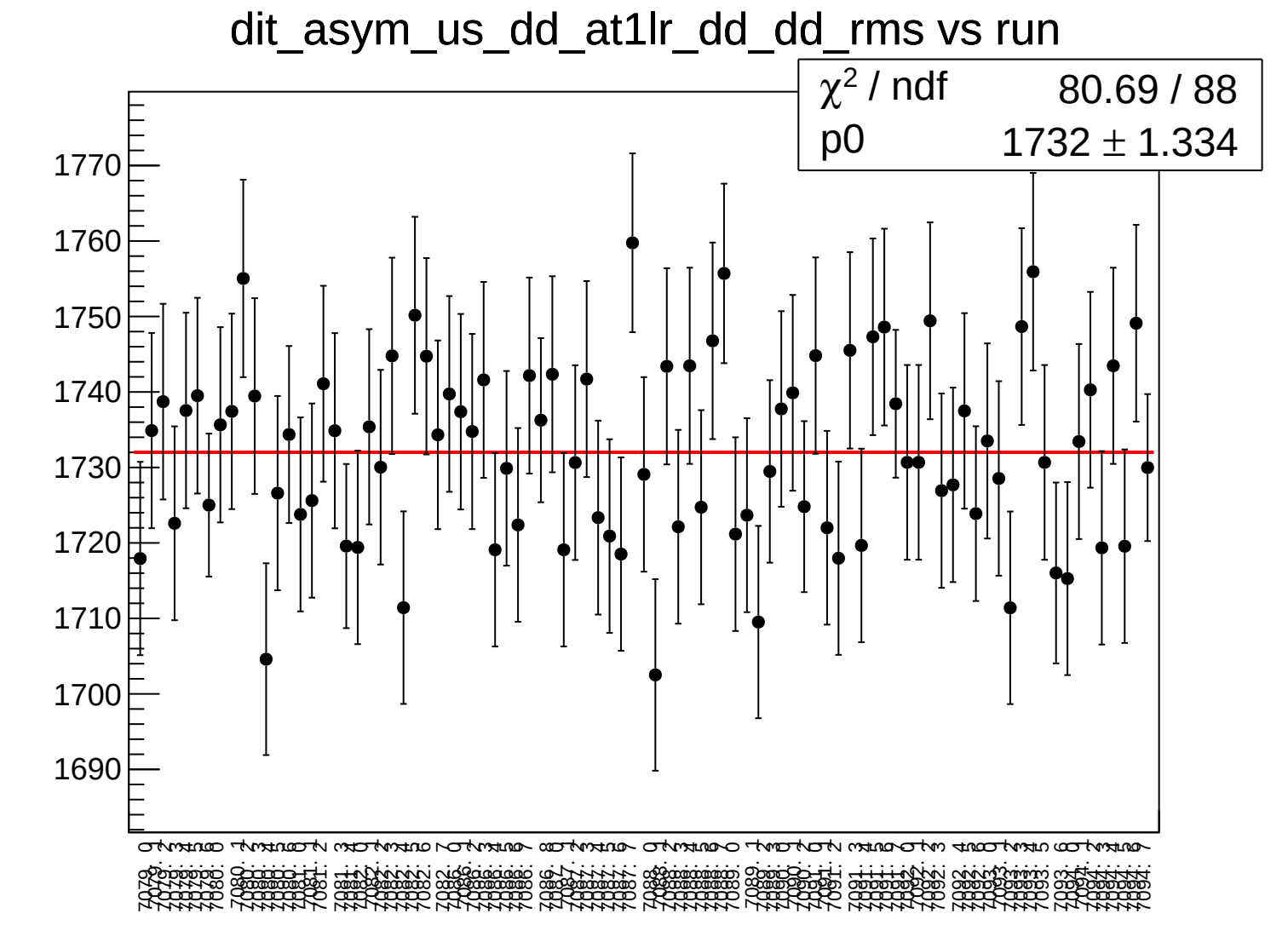

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 80.07 / 88
p0 1731 ± 1.333
1770
1760
1750
1740
1730
1720
1710
1700
1690

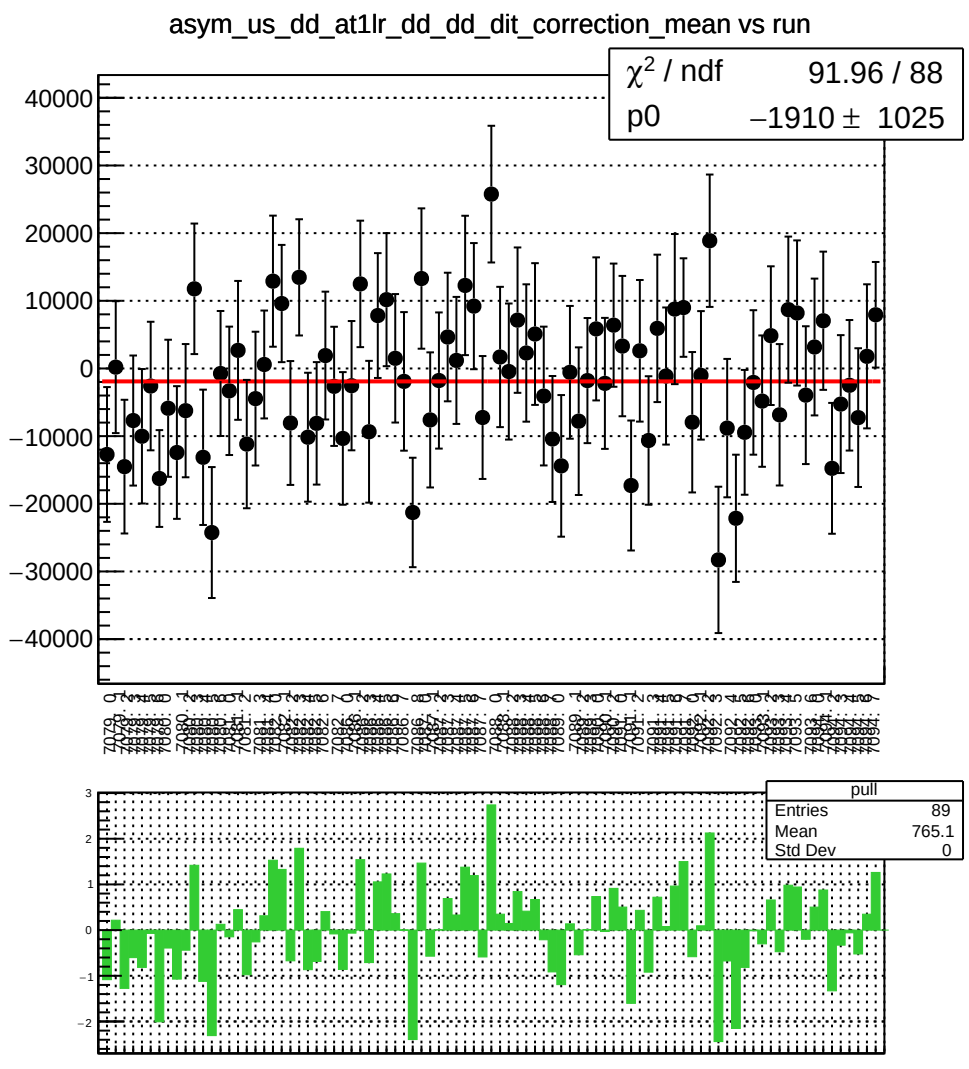

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.91 / 88
p0 −1961 ± 1010
pull
Entries 89
Mean 440.1
Std Dev 0
pull1D
Entries 89
Mean 0.008788
Std Dev 1.016

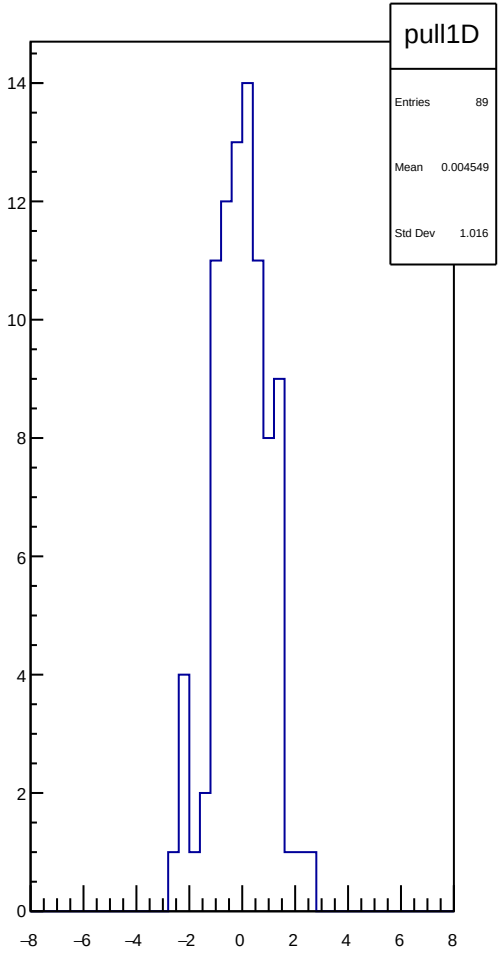

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4992 / 88
p0 925.7 ± 0.7139
1050
1000
950
900
850
800

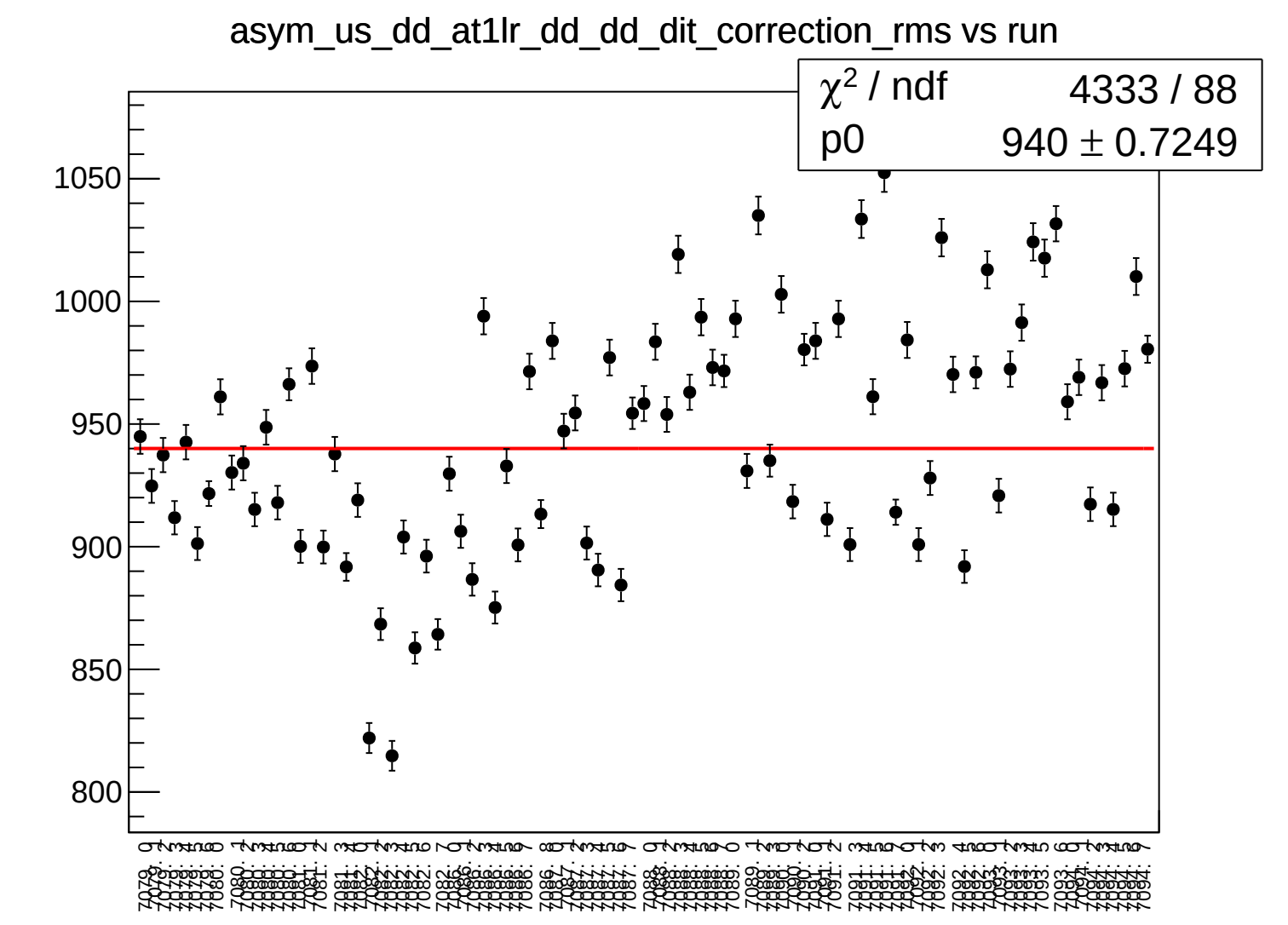

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 74.83 / 88
p0 1364 ± 1886
pull
Entries 89
Mean −219.2
Std Dev 0

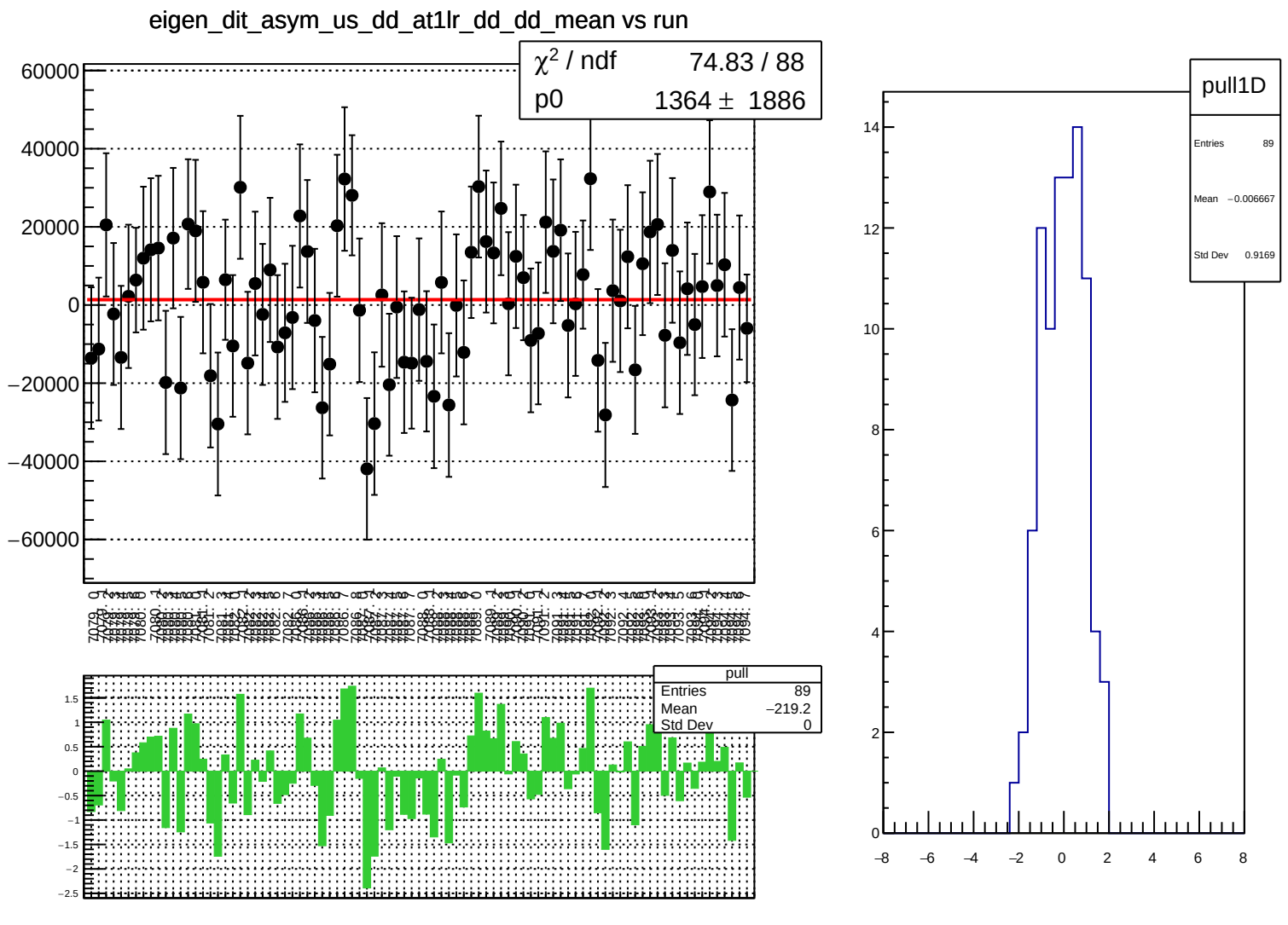

pull1D
Entries 89
Mean −0.006667
Std Dev 0.9169

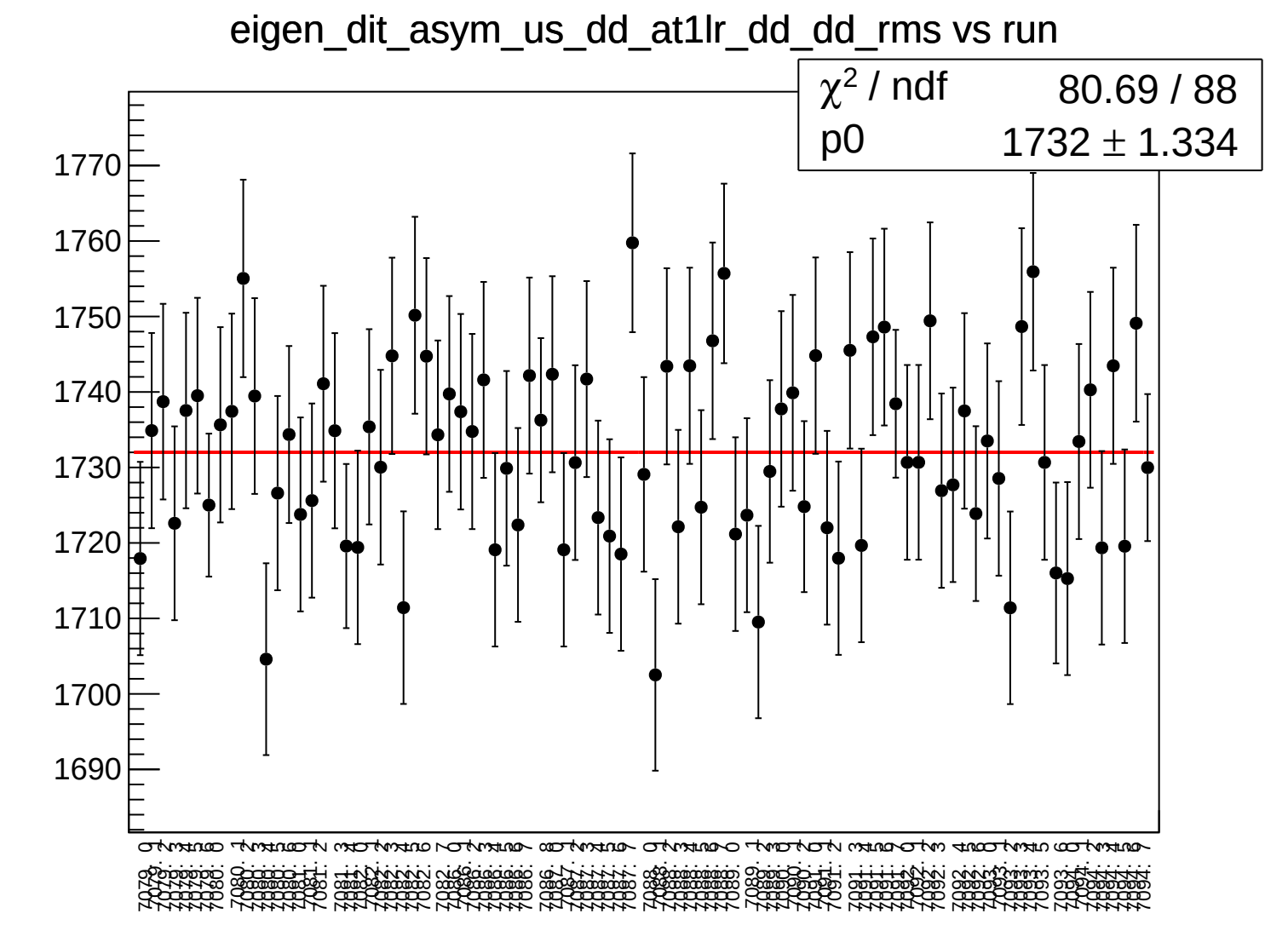

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 80.69 / 88
p0 1732 ± 1.334
1770
1760
1750
1740
1730
1720
1710
1700
1690

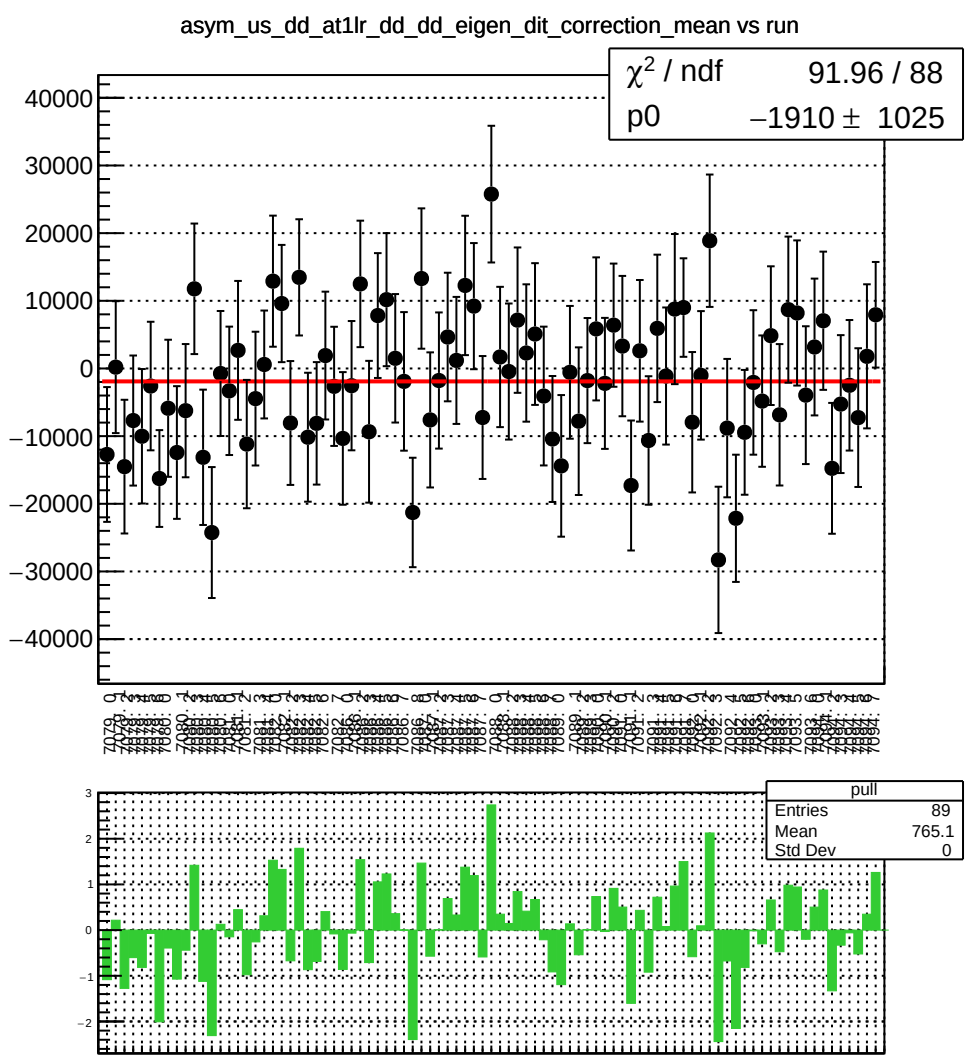

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 91.96 / 88
p0 −1910 ± 1025
pull
Entries 89
Mean 765.1
Std Dev 0

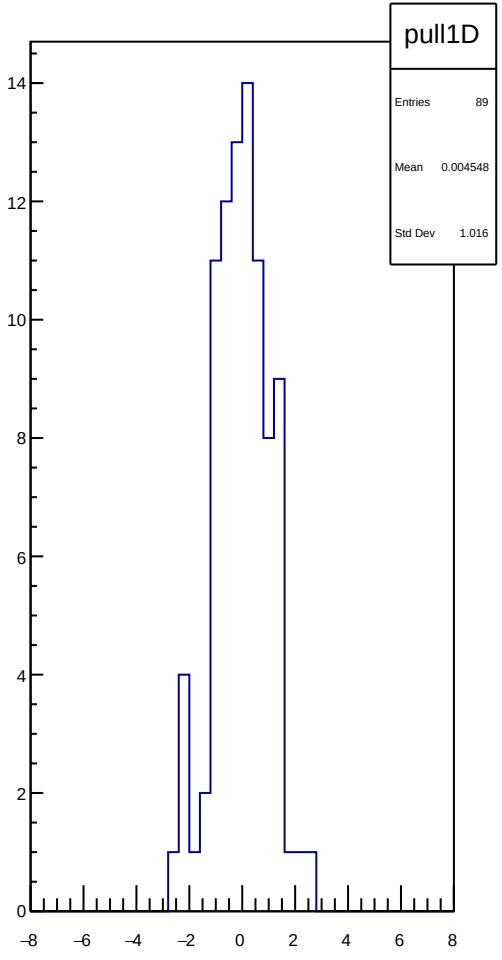

pull1D
Entries 89
Mean 0.004549
Std Dev 1.016

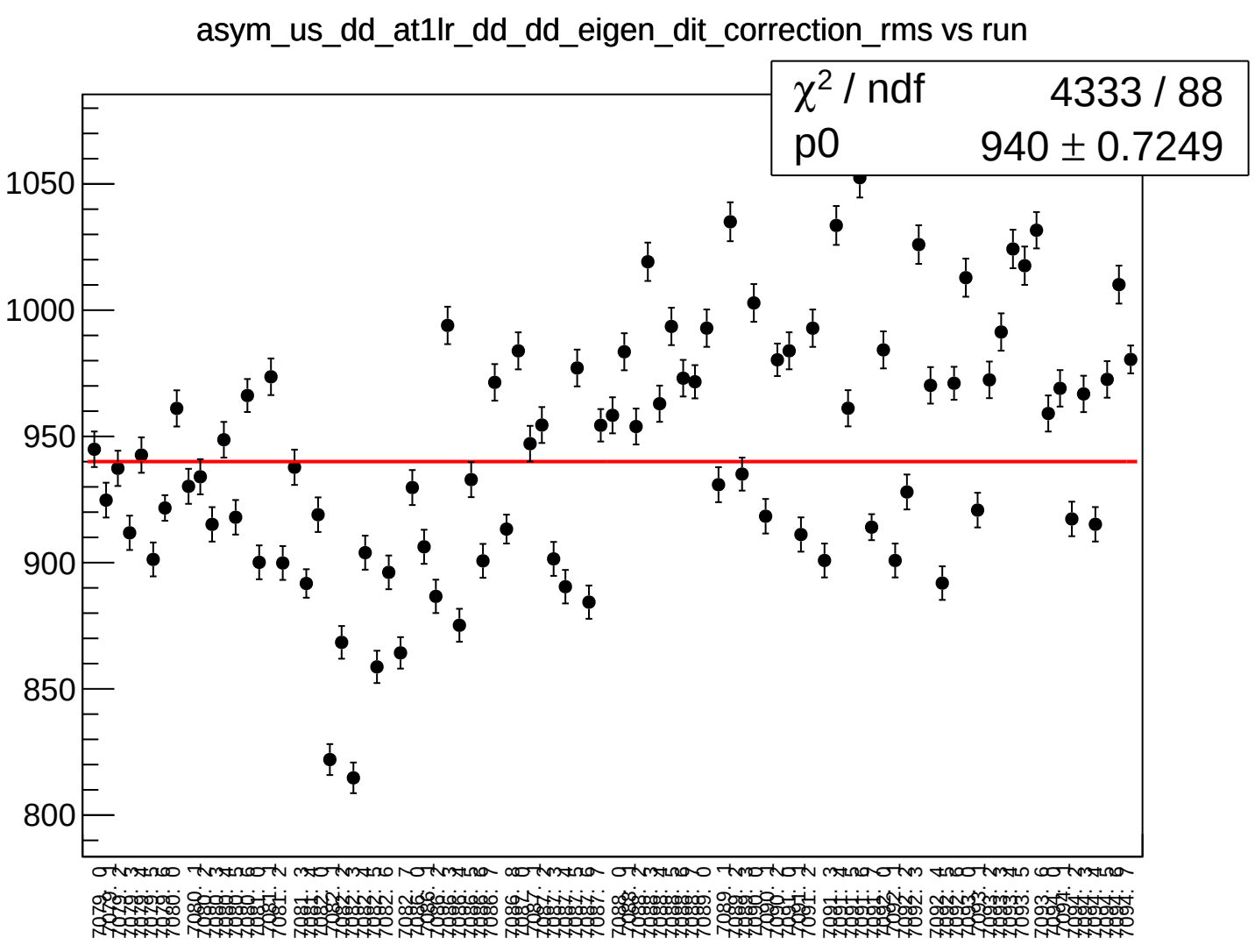

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4333 / 88
p0 940 ± 0.7249
1050
1000
950
900
850
800

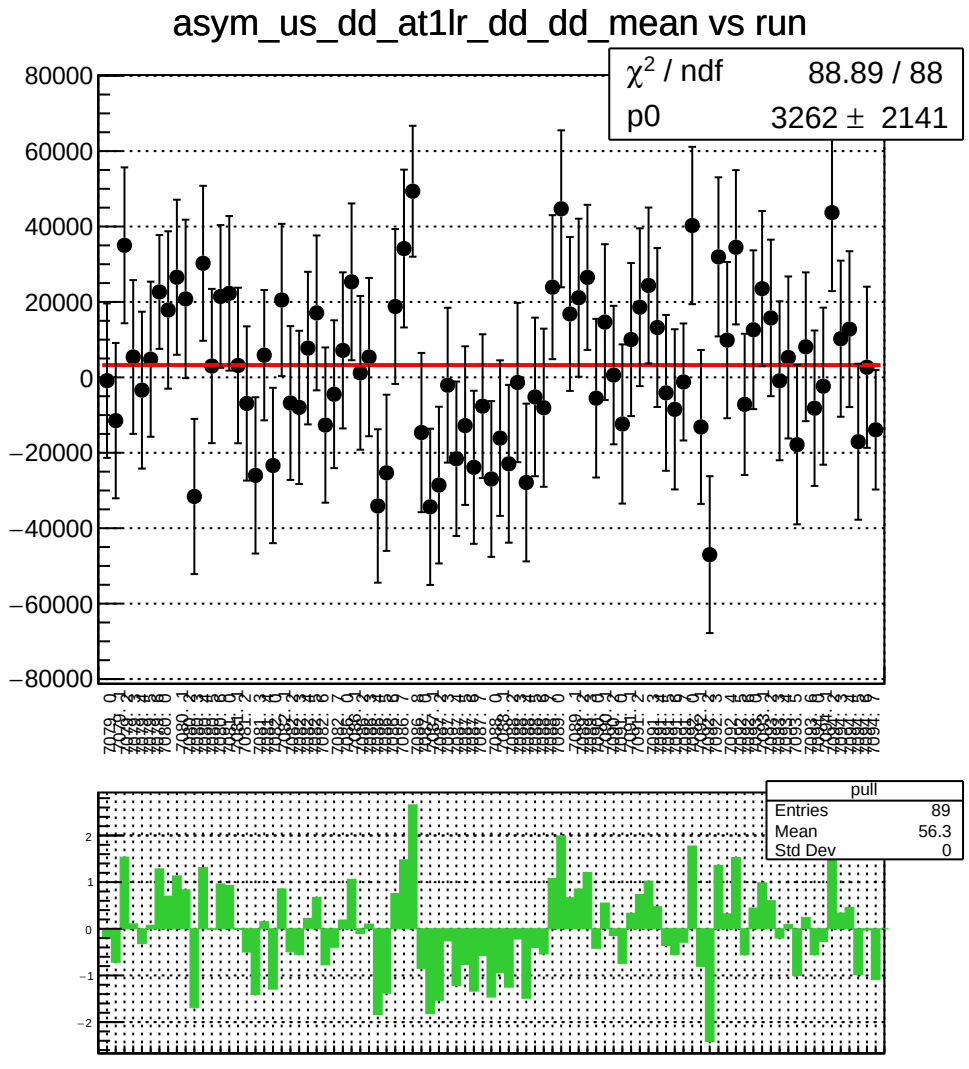

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 74.83 / 88
p0 1364 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −219.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.006667
Std Dev 0.9169
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

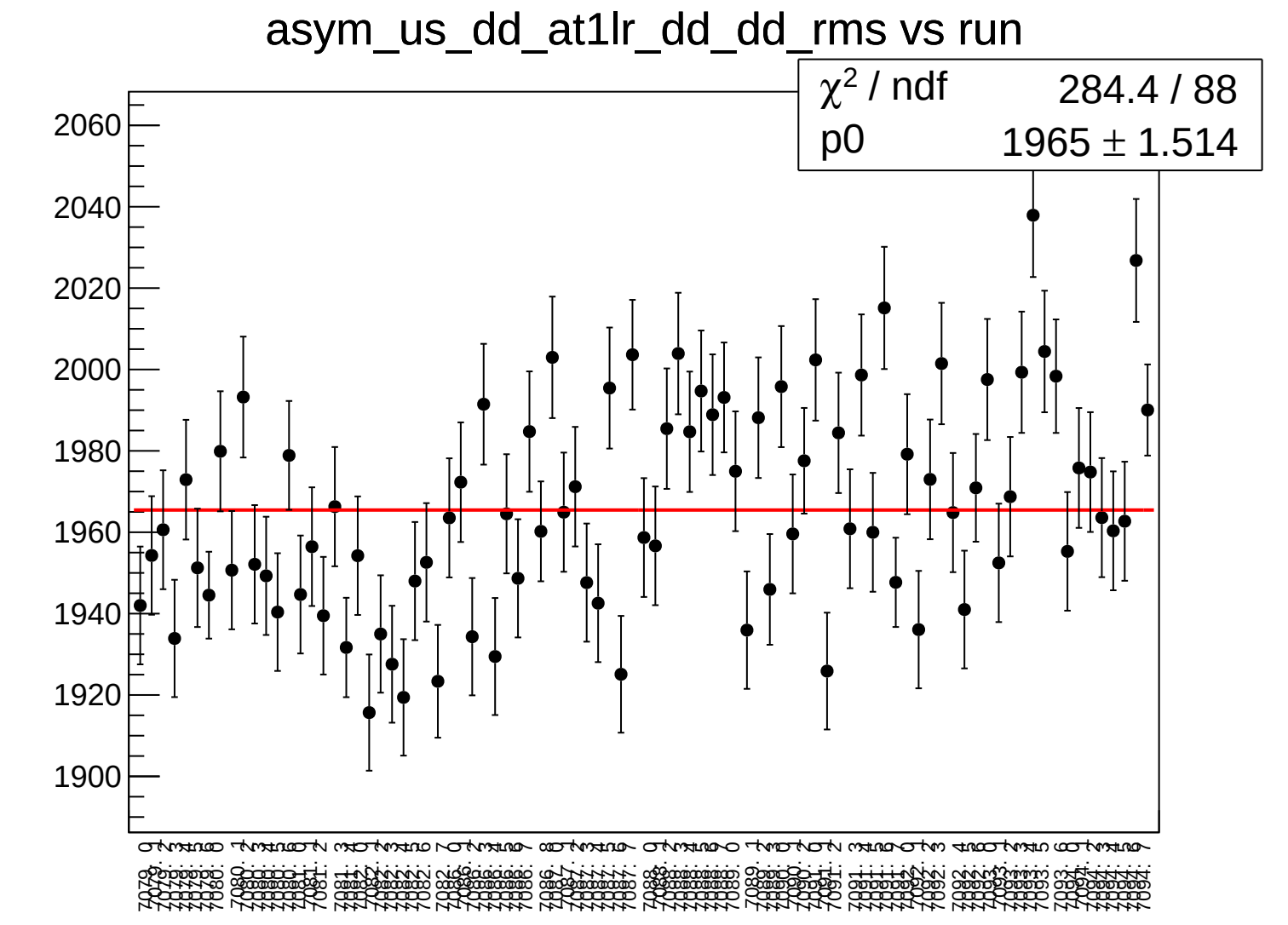

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 80.69 / 88
p0 1732 ± 1.334
1770
1760
1750
1740
1730
1720
1710
1700
1690

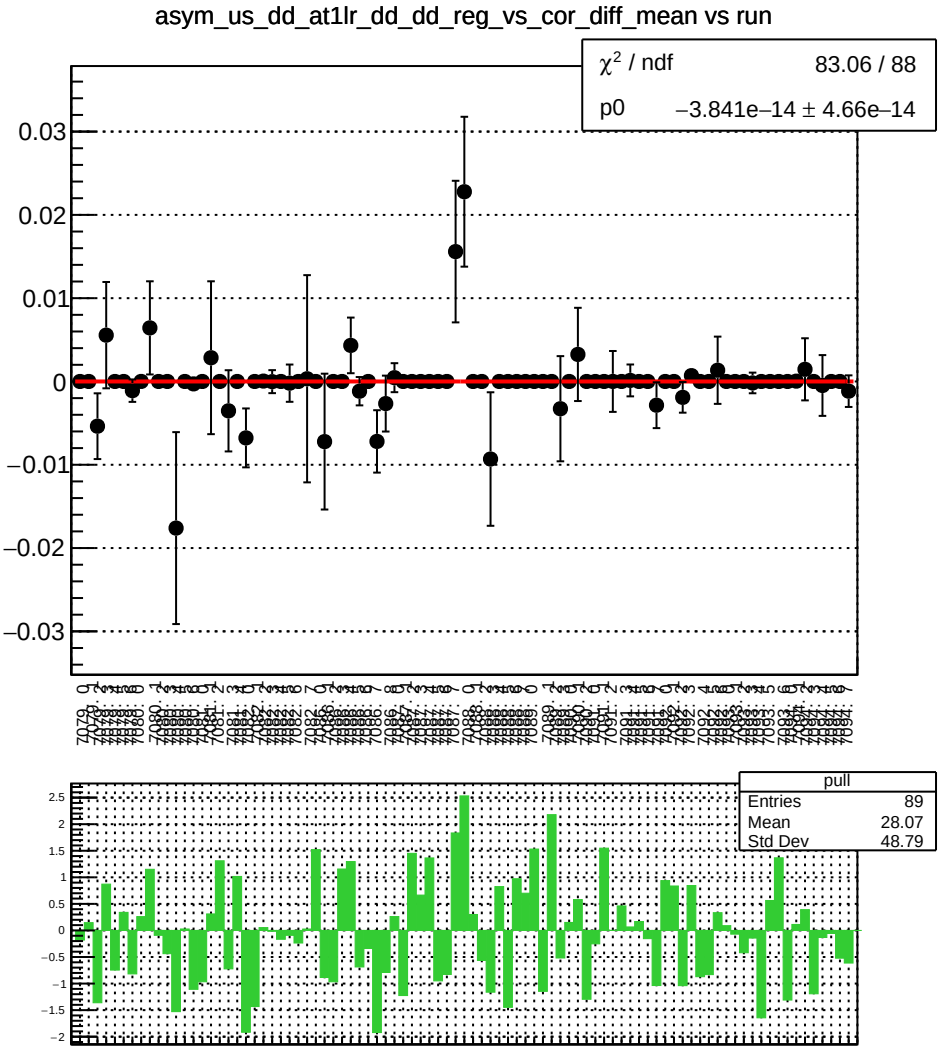

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.96 / 88
p0 −1910 ± 1025
pull
Entries 89
Mean 765.1
Std Dev 0

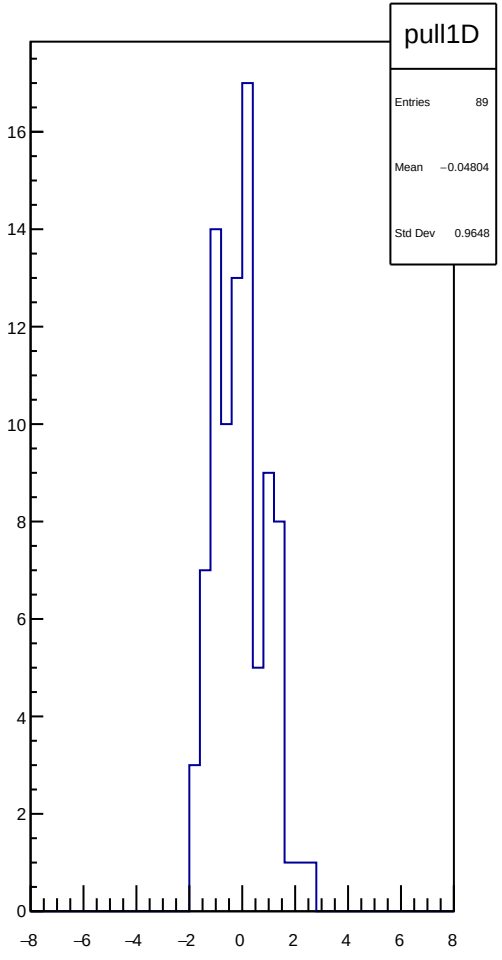

pull1D
Entries 89
Mean 0.004548
Std Dev 1.016

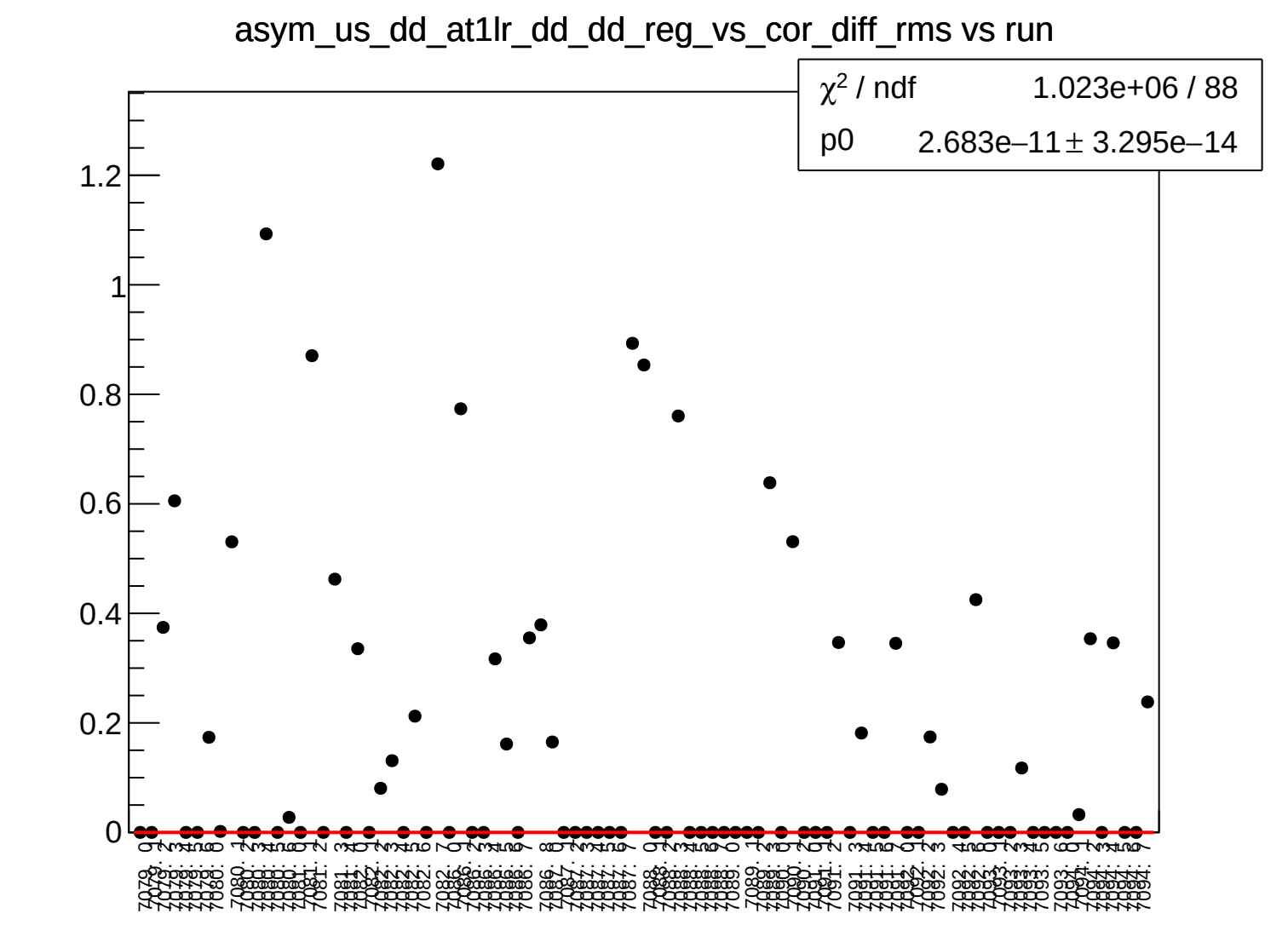

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4333 / 88
p0 940 ± 0.7249
1050
1000
950
900
850
800

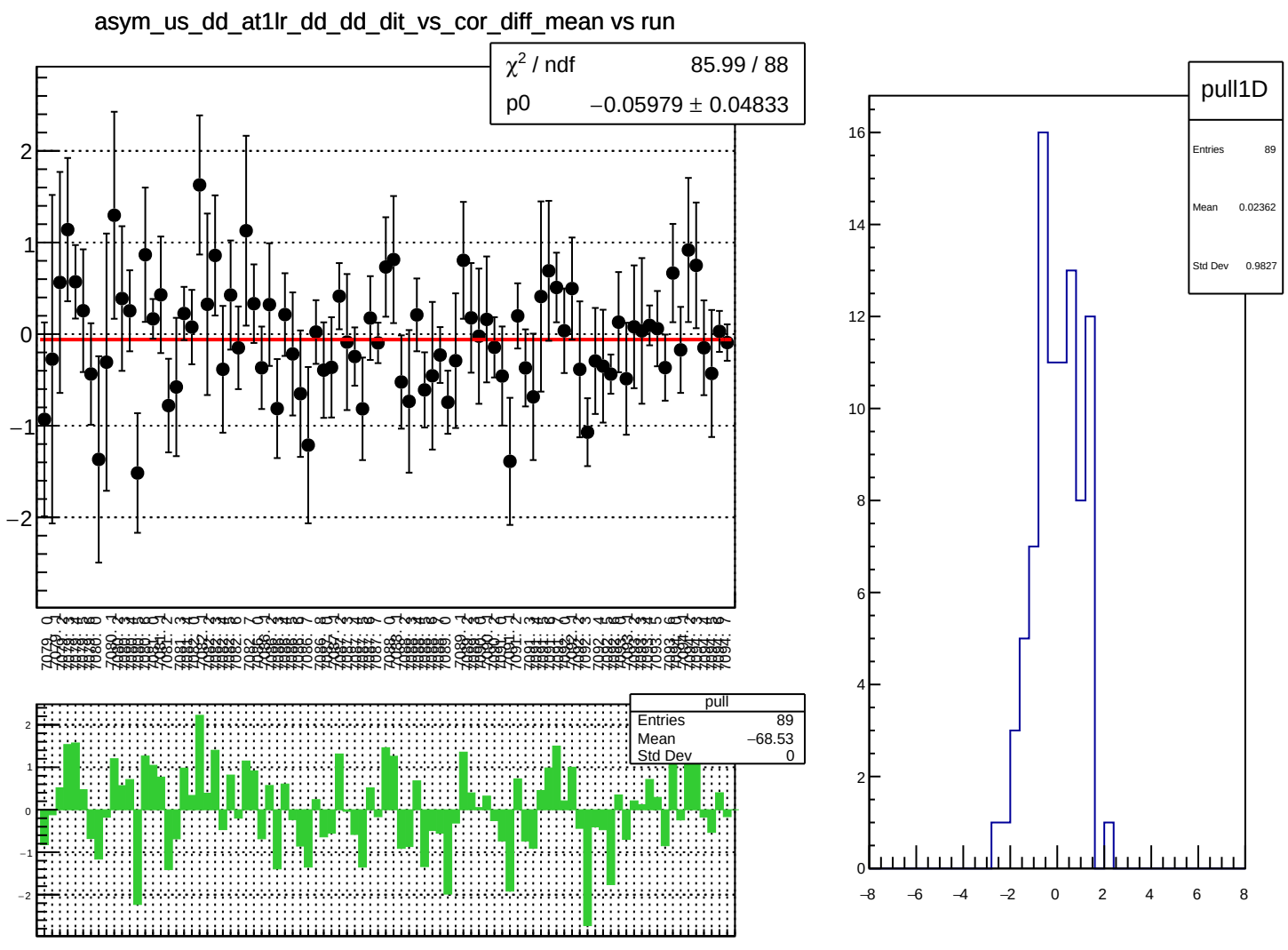

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 88.89 / 88
p0 3262 ± 2141
pull
Entries 89
Mean 56.3
Std Dev 0
pull1D
Entries 89
Mean −0.007945
Std Dev 0.9993

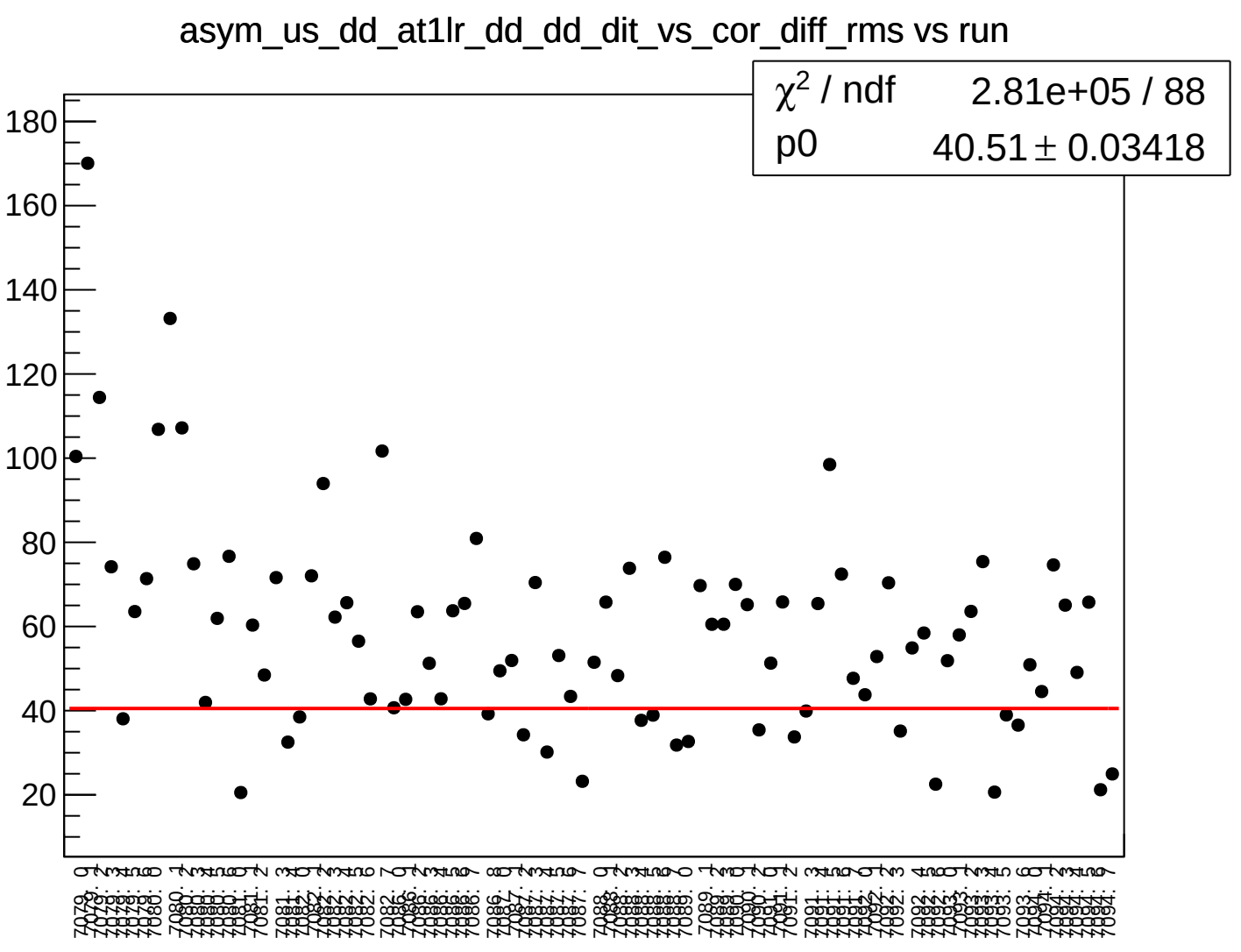

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 284.4 / 88
p0 1965 ± 1.514
2060
2040
2020
2000
1980
1960
1940
1920
1900

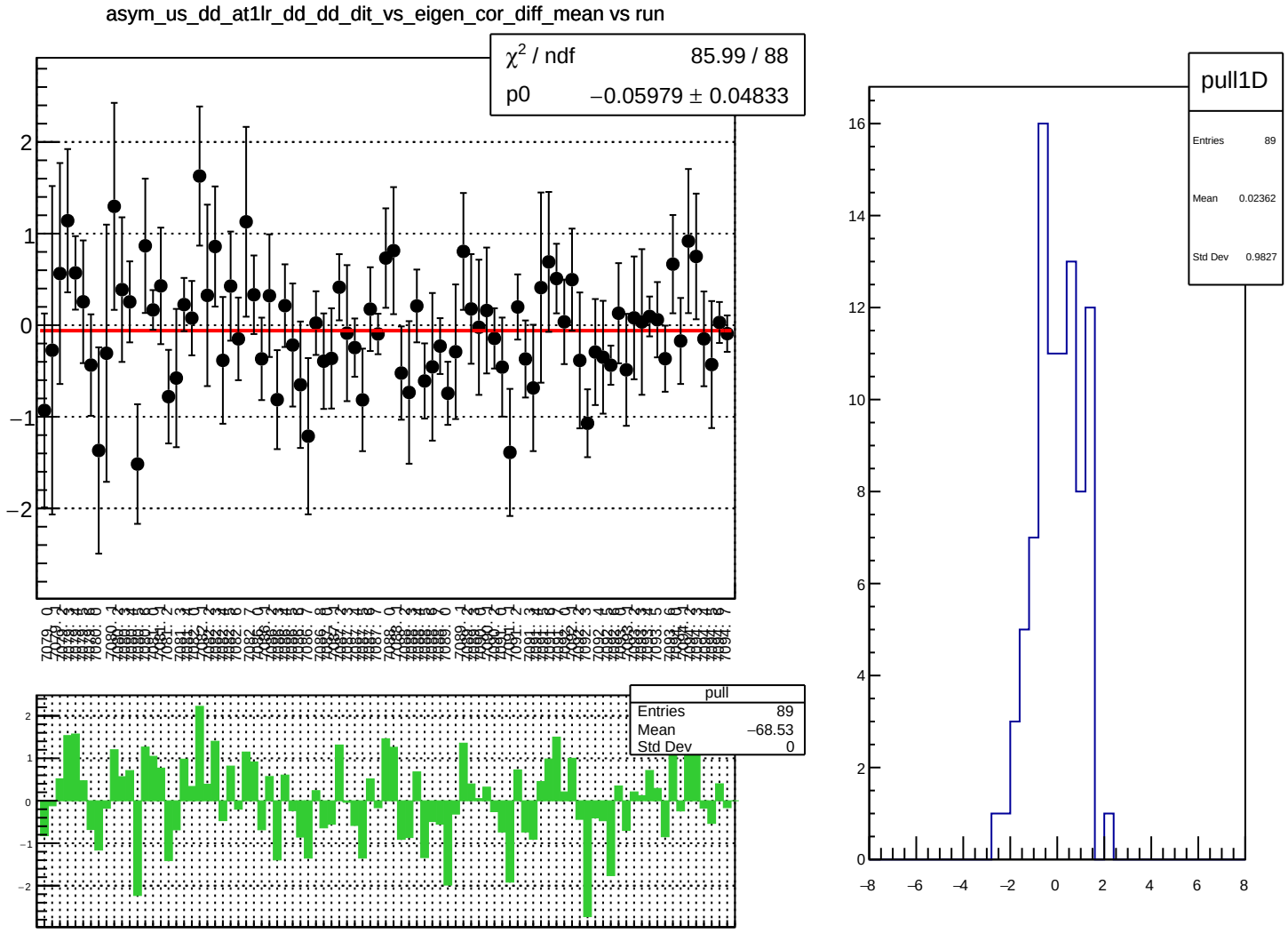

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.06 / 88
p0 −3.841e−14 ± 4.66e−14
pull
Entries 89
Mean 28.07
Std Dev 48.79

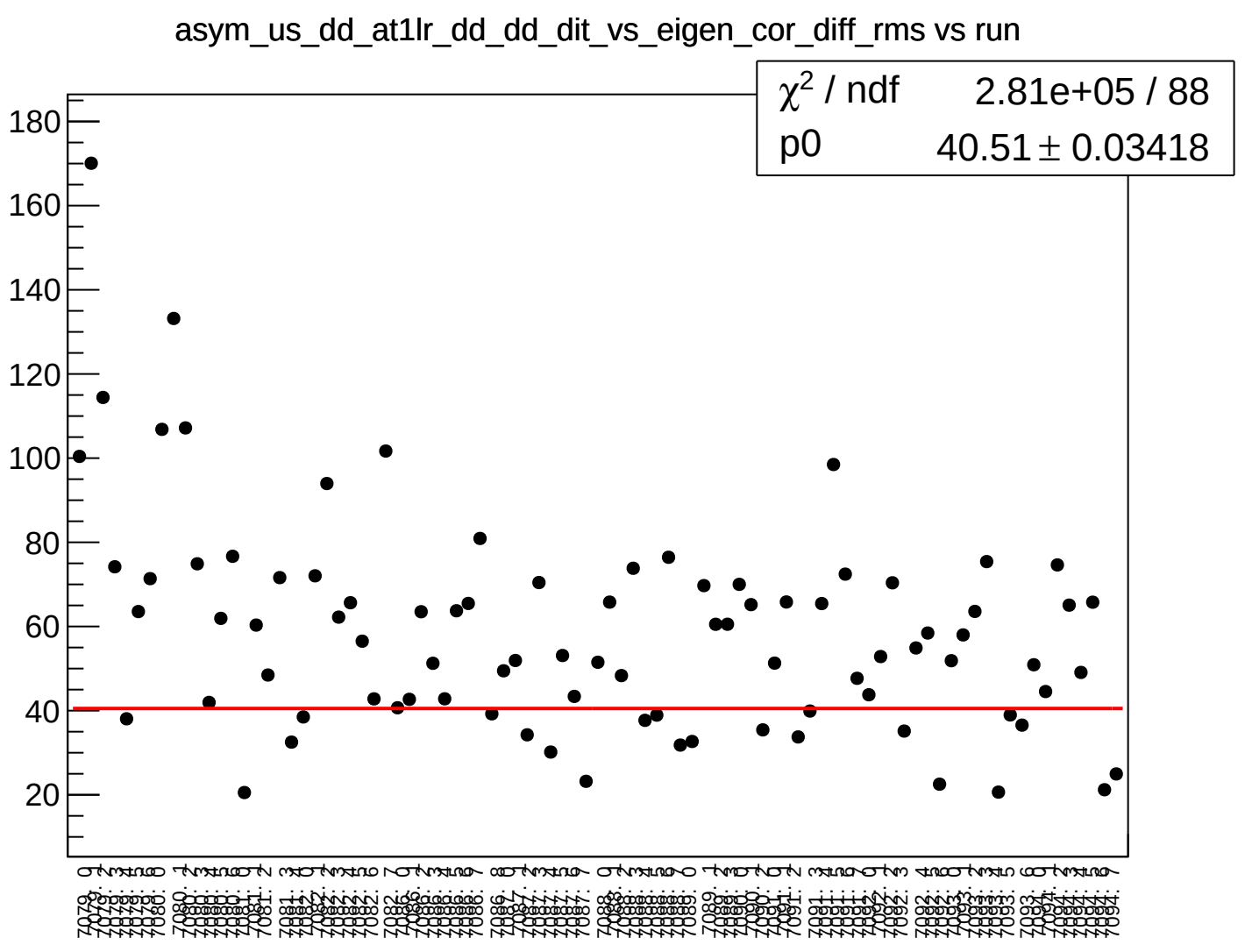

pull1D
Entries 89
Mean −0.04804
Std Dev 0.9648

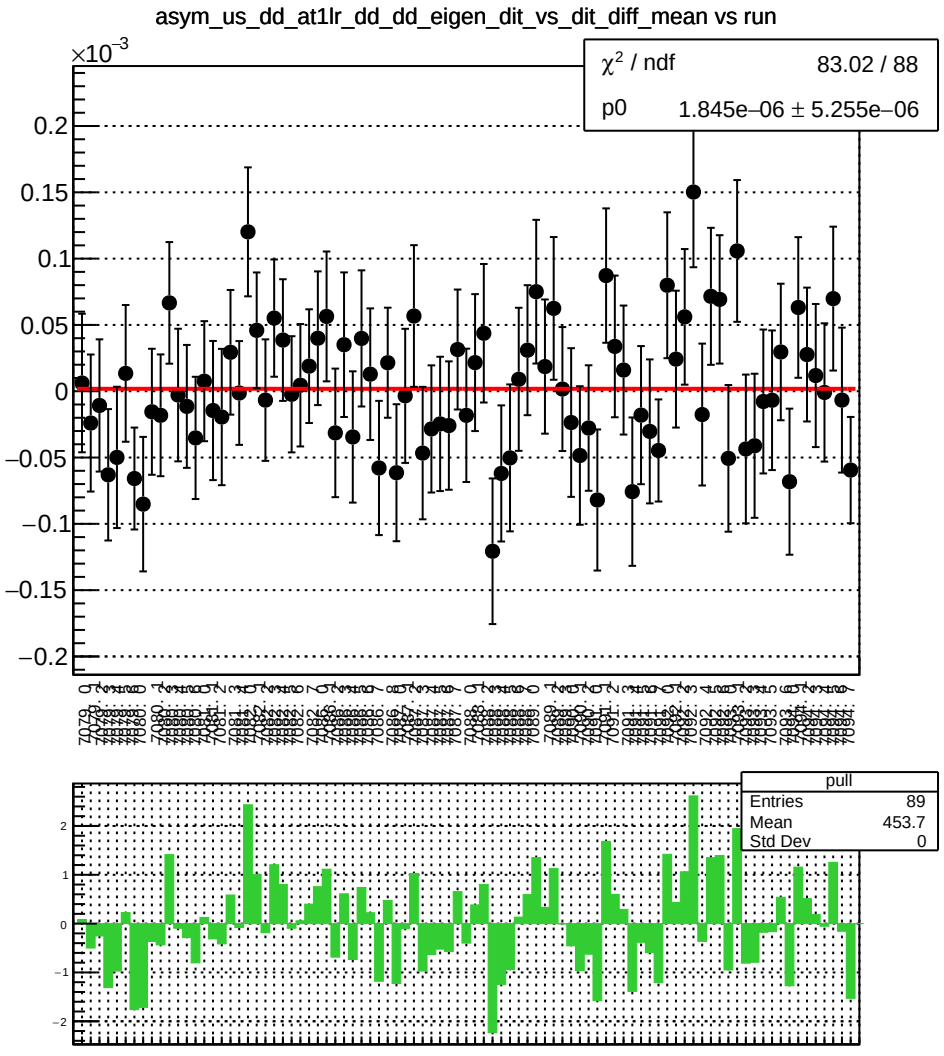

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.023e+06 / 88
p0 2.683e−11 ± 3.295e−14
1.2
1
0.8
0.6
0.4
0.2
0

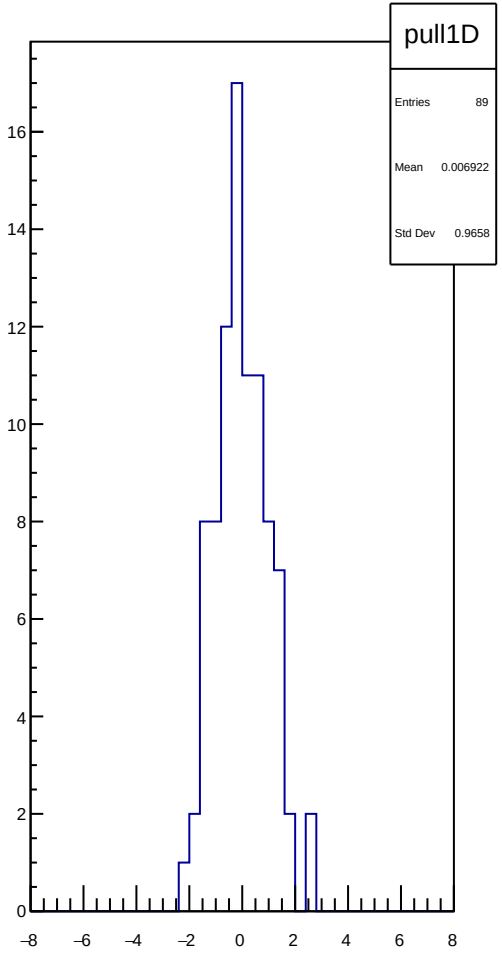

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.99 / 88
p0 −0.05979 ± 0.04833
pull
Entries 89
Mean −68.53
Std Dev 0
pull1D
Entries 89
Mean 0.02362
Std Dev 0.9827

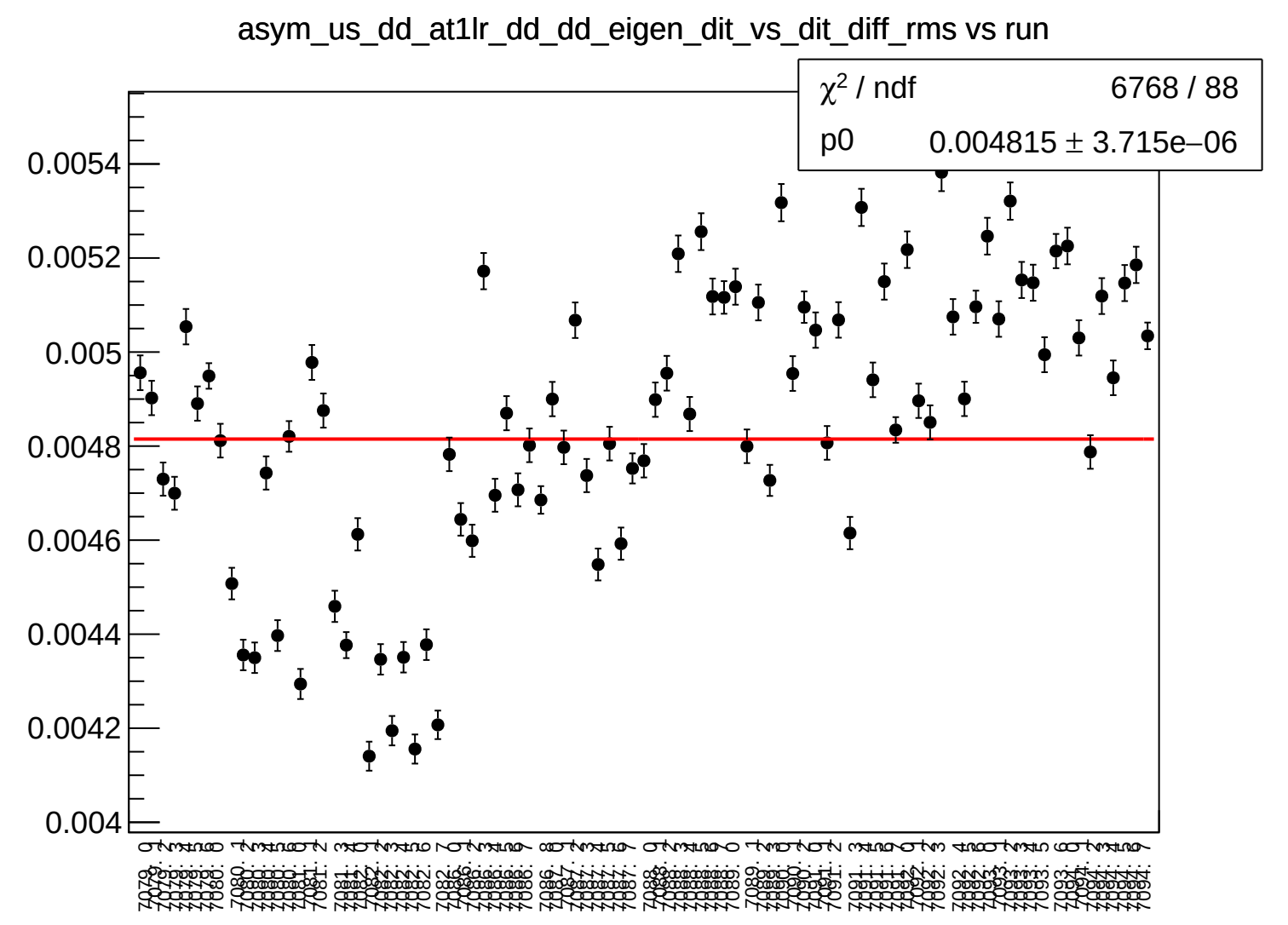

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.81e+05 / 88
p0 40.51 ± 0.03418
180
160
140
120
100
80
60
40
20

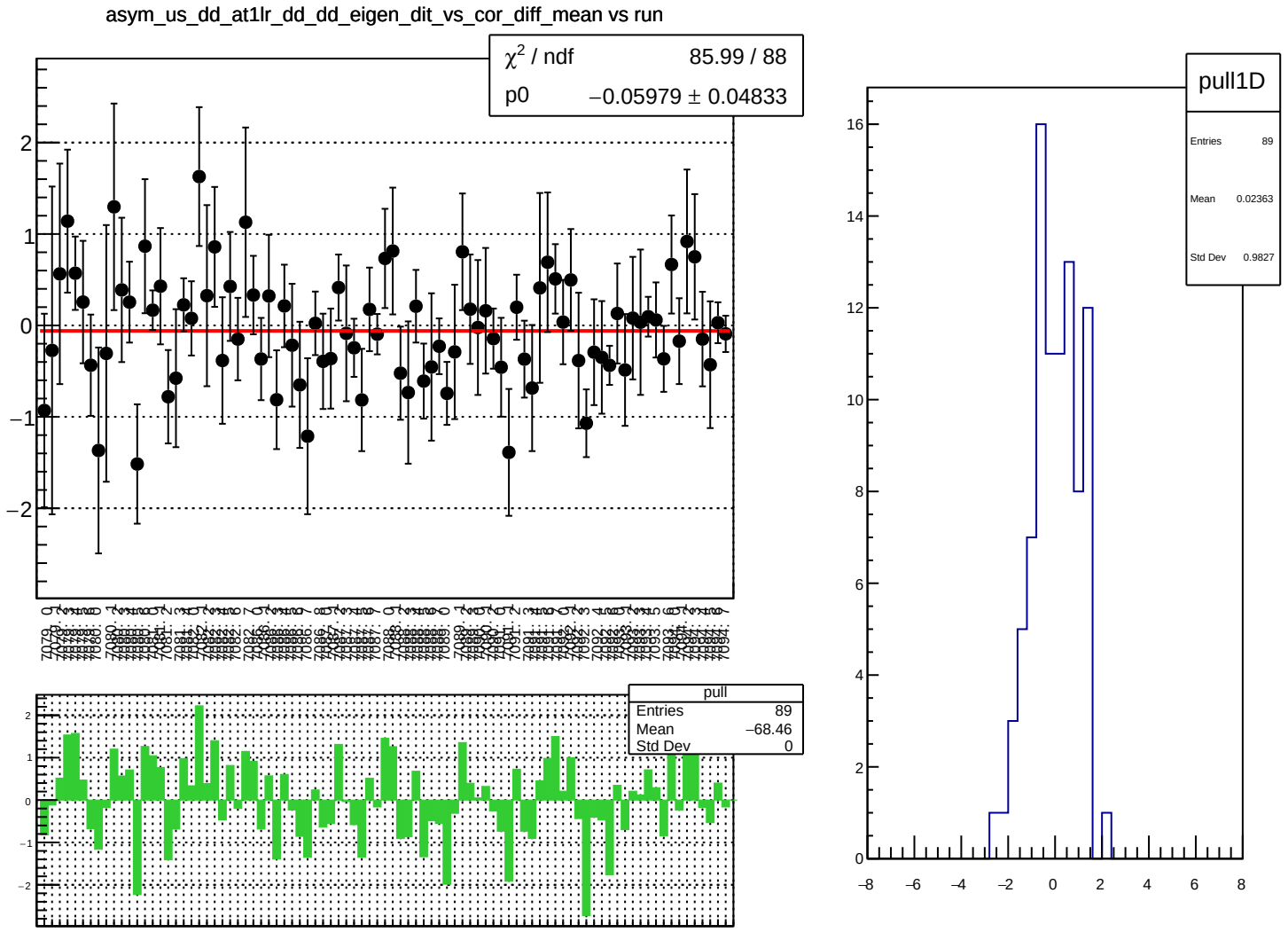

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.99 / 88
p0 −0.05979 ± 0.04833
pull
Entries 89
Mean −68.53
Std Dev 0
pull1D
Entries 89
Mean 0.02362
Std Dev 0.9827

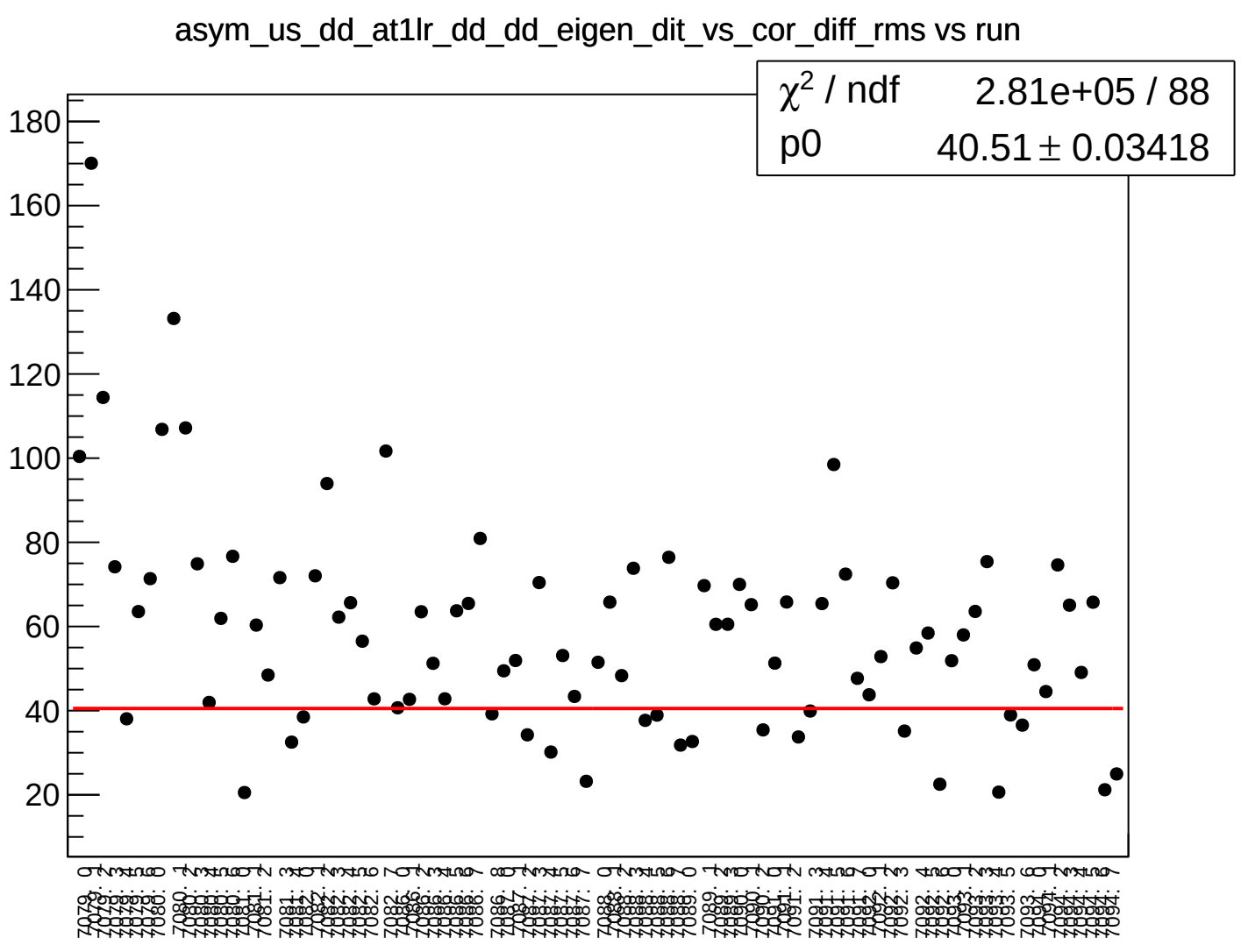

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.81e+05 / 88
p0 40.51 ± 0.03418
180
160
140
120
100
80
60
40
20

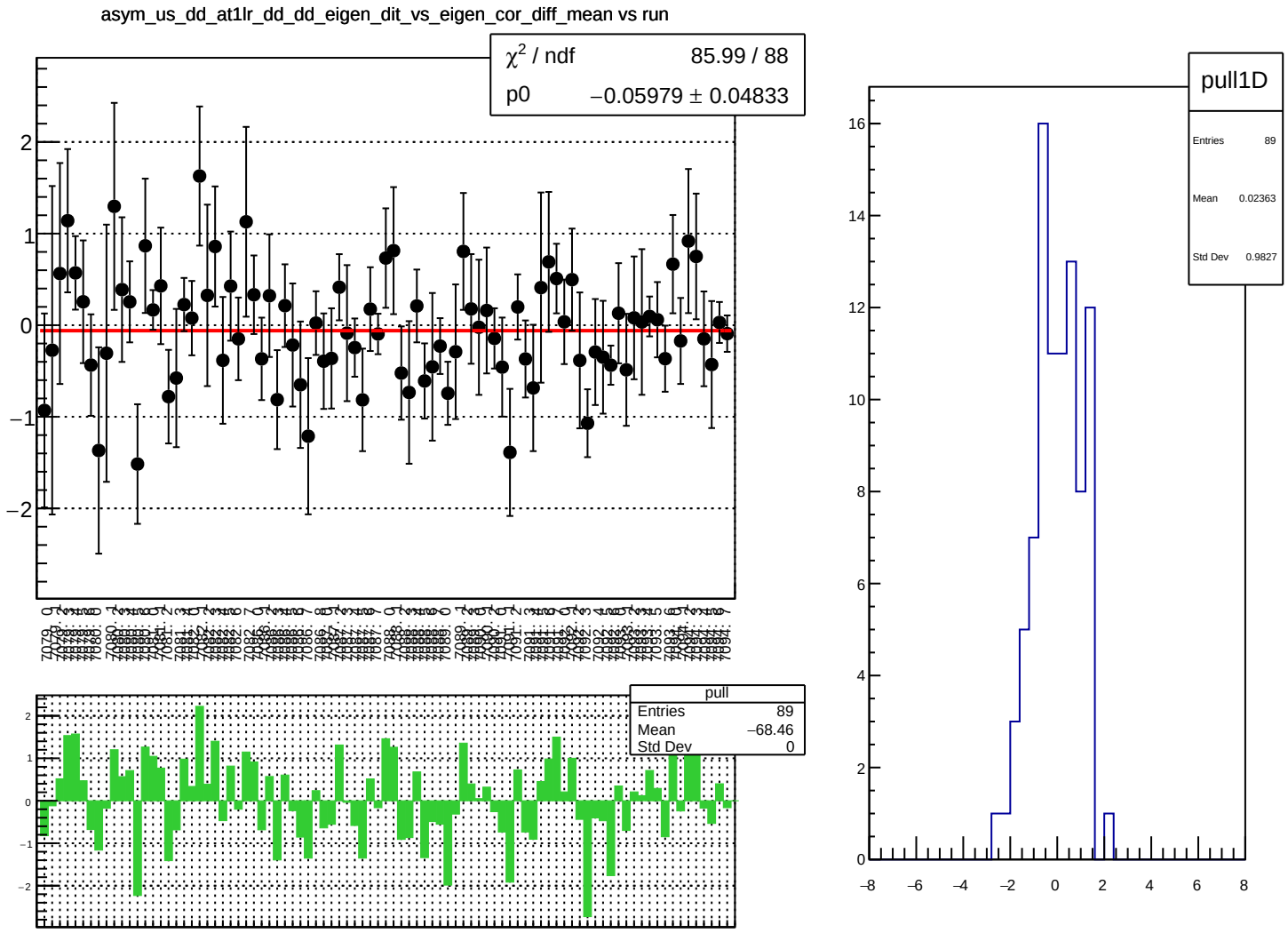

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.02 / 88
p0 1.845e−06 ± 5.255e−06
pull
Entries 89
Mean 453.7
Std Dev 0

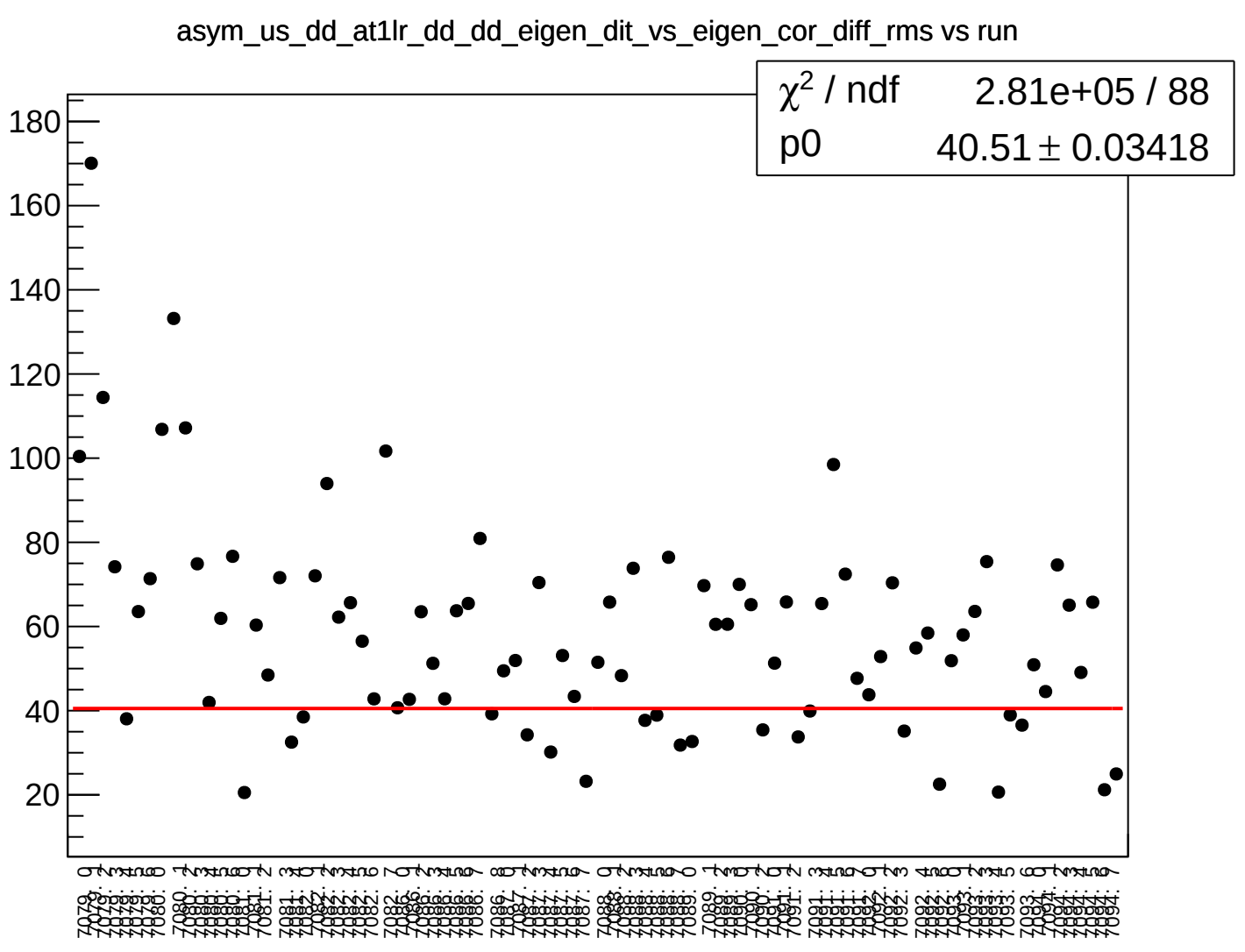

pull1D
Entries 89
Mean 0.006922
Std Dev 0.9658


asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6768 / 88
p0 0.004815 ± 3.715e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

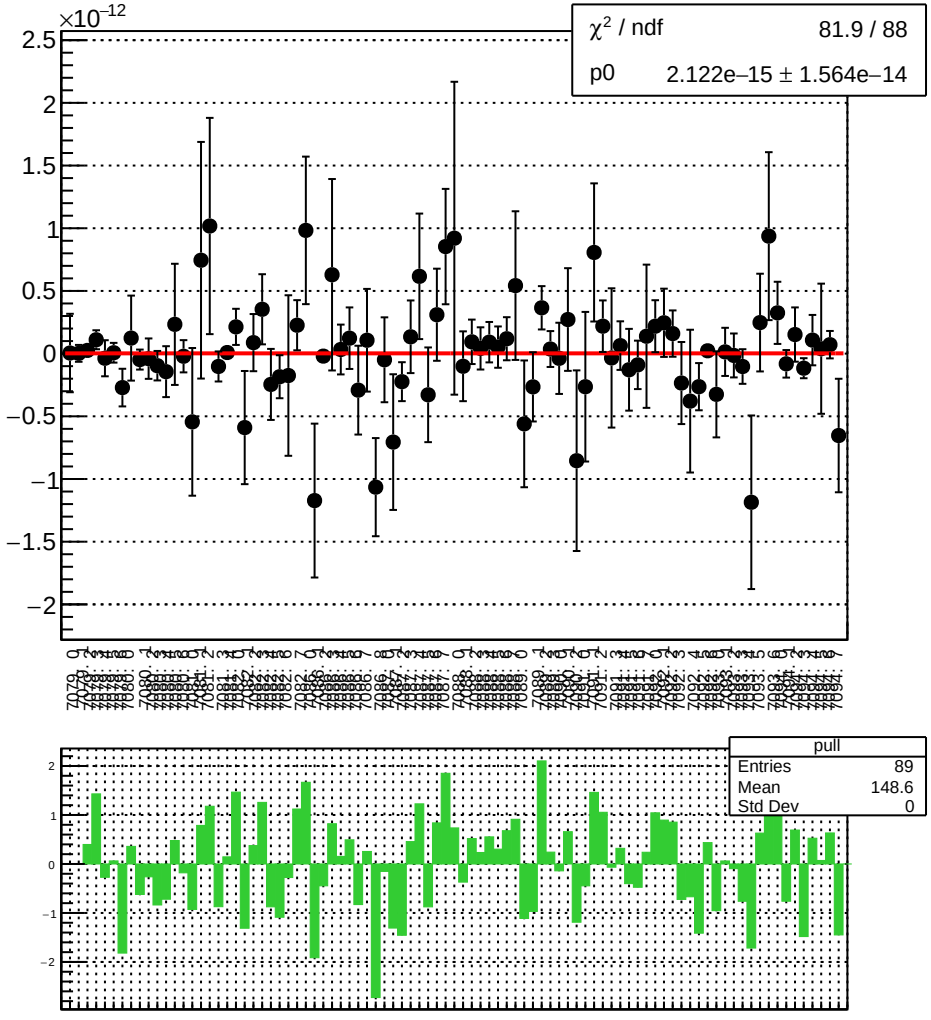

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.99 / 88
p0 −0.05979 ± 0.04833
pull
Entries 89
Mean −68.46
Std Dev 0
pull1D
Entries 89
Mean 0.02363
Std Dev 0.9827

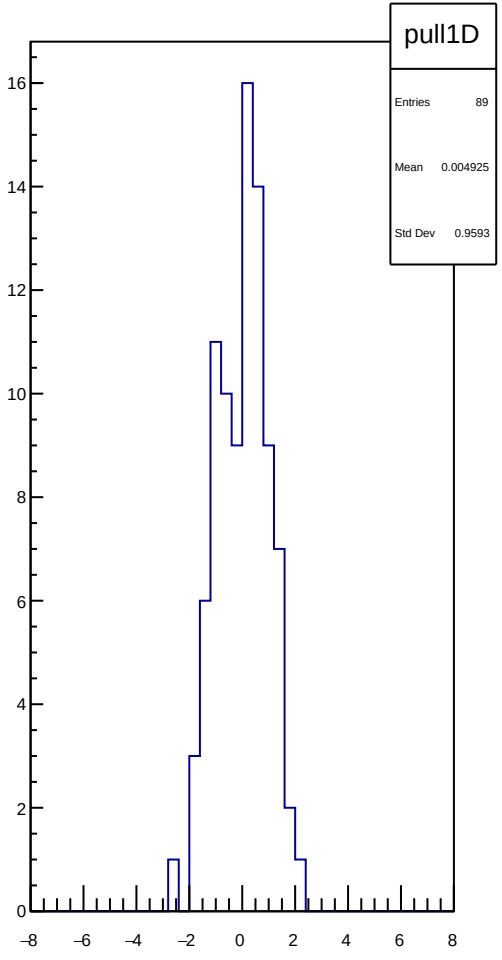

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.81e+05 / 88
p0 40.51 ± 0.03418
180
160
140
120
100
80
60
40
20

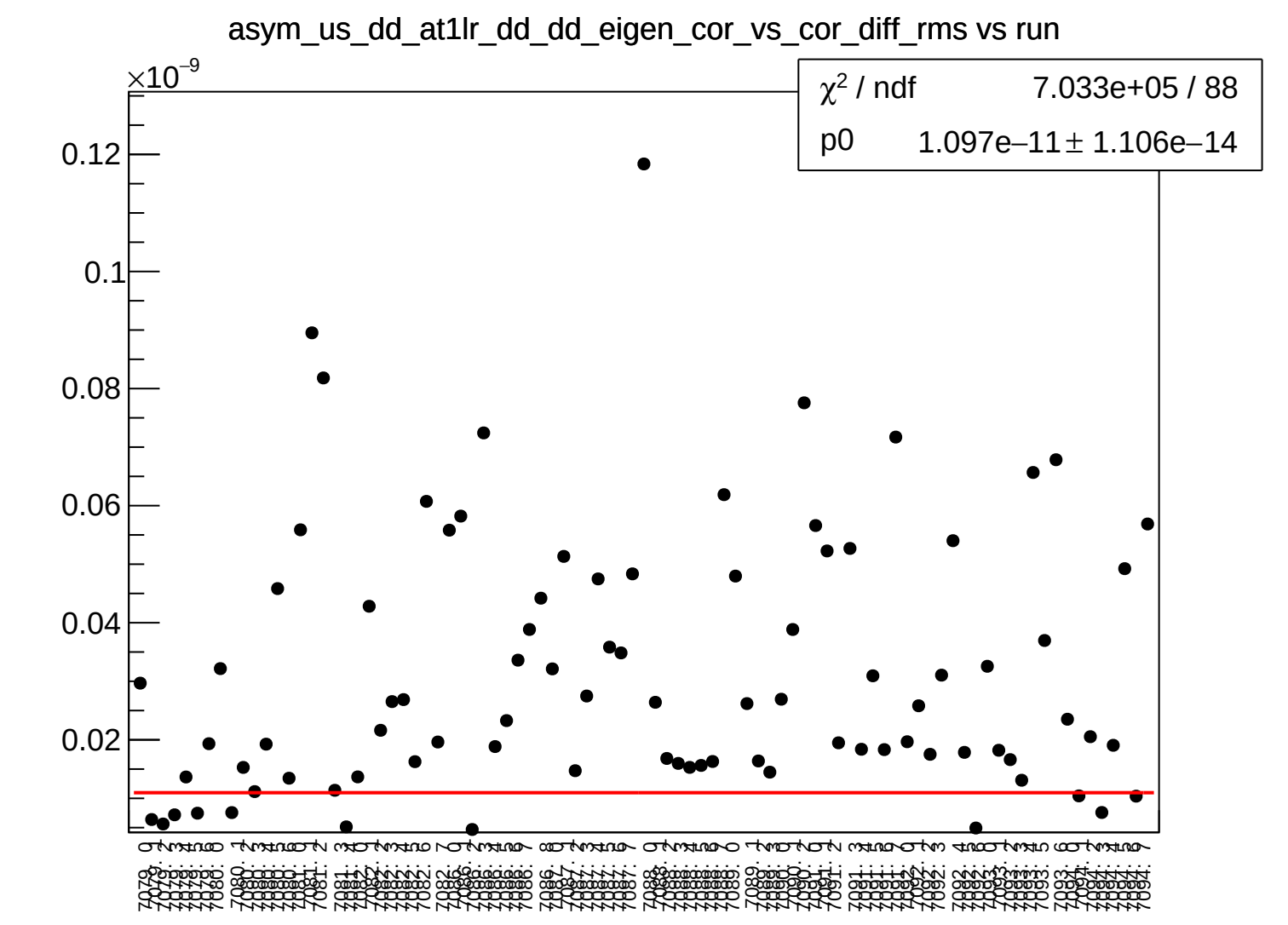

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.99 / 88
p0 −0.05979 ± 0.04833
pull
Entries 89
Mean −68.46
Std Dev 0
pull1D
Entries 89
Mean 0.02363
Std Dev 0.9827

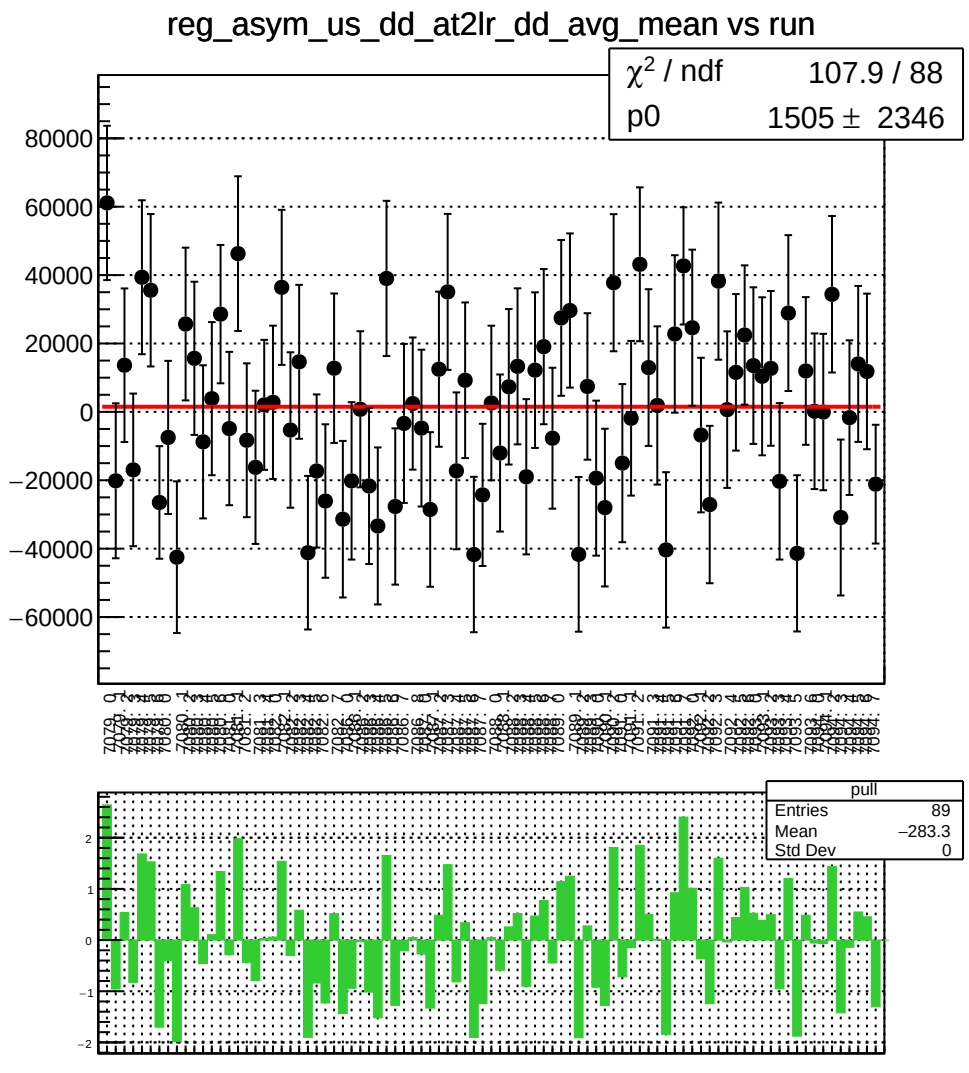

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.81e+05 / 88
p0 40.51 ± 0.03418
180
160
140
120
100
80
60
40
20

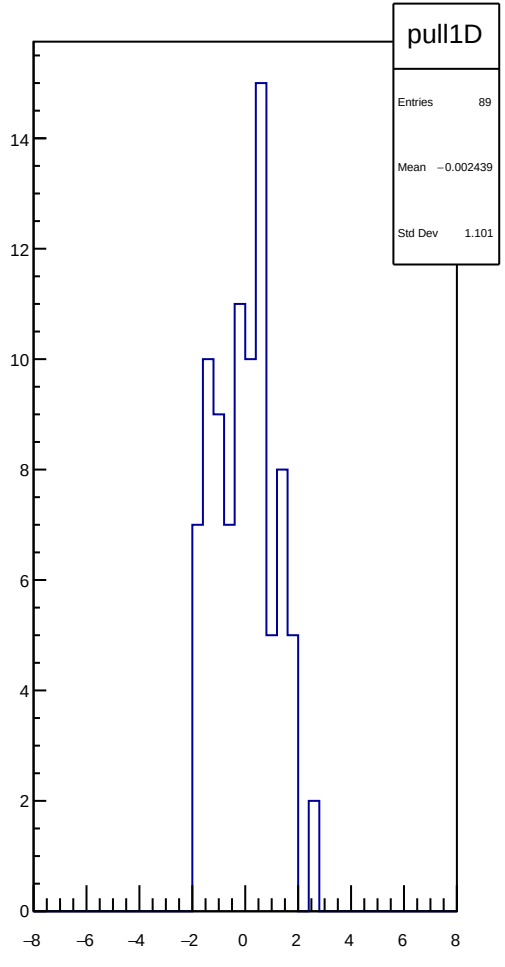
asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run

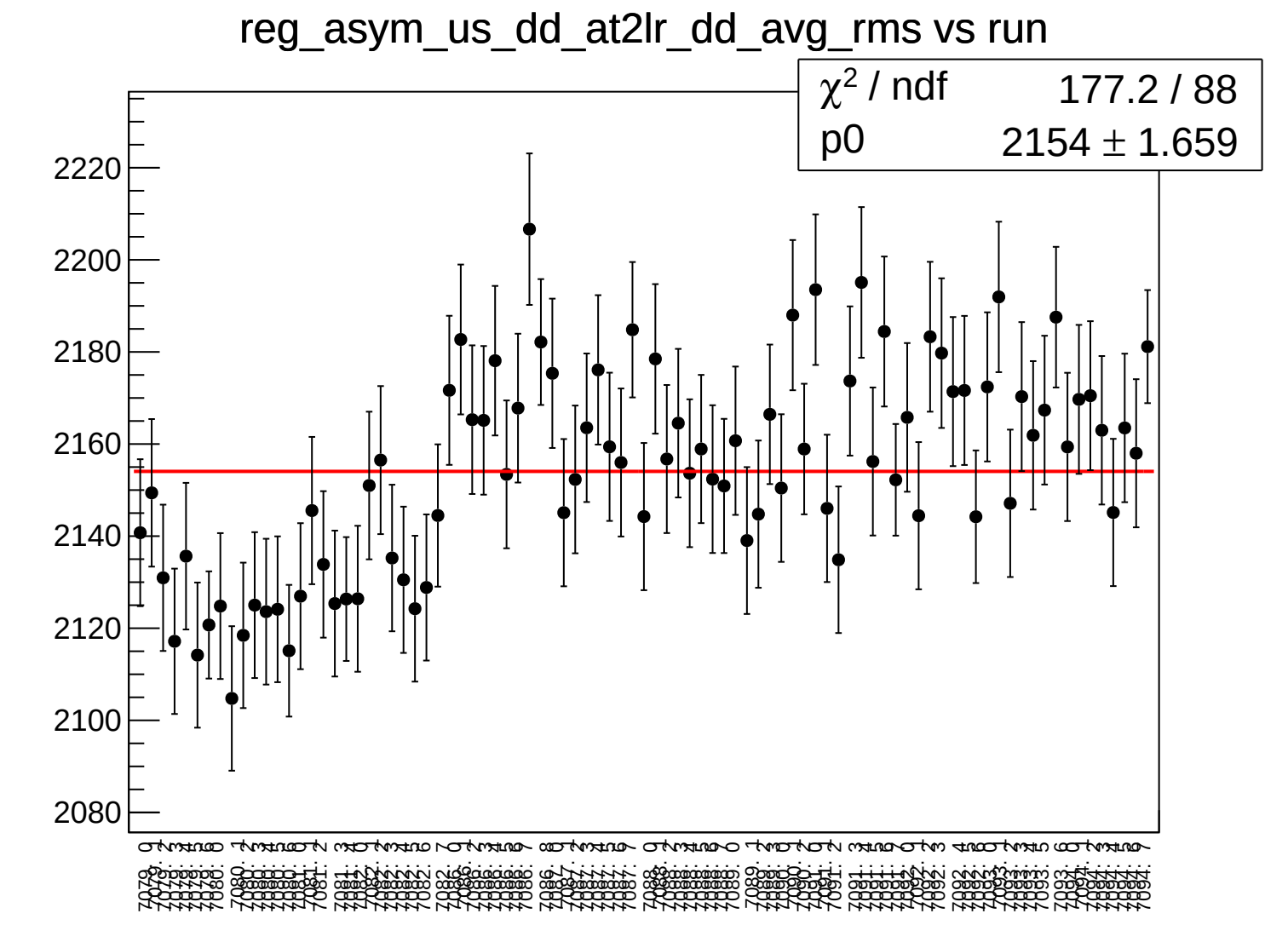


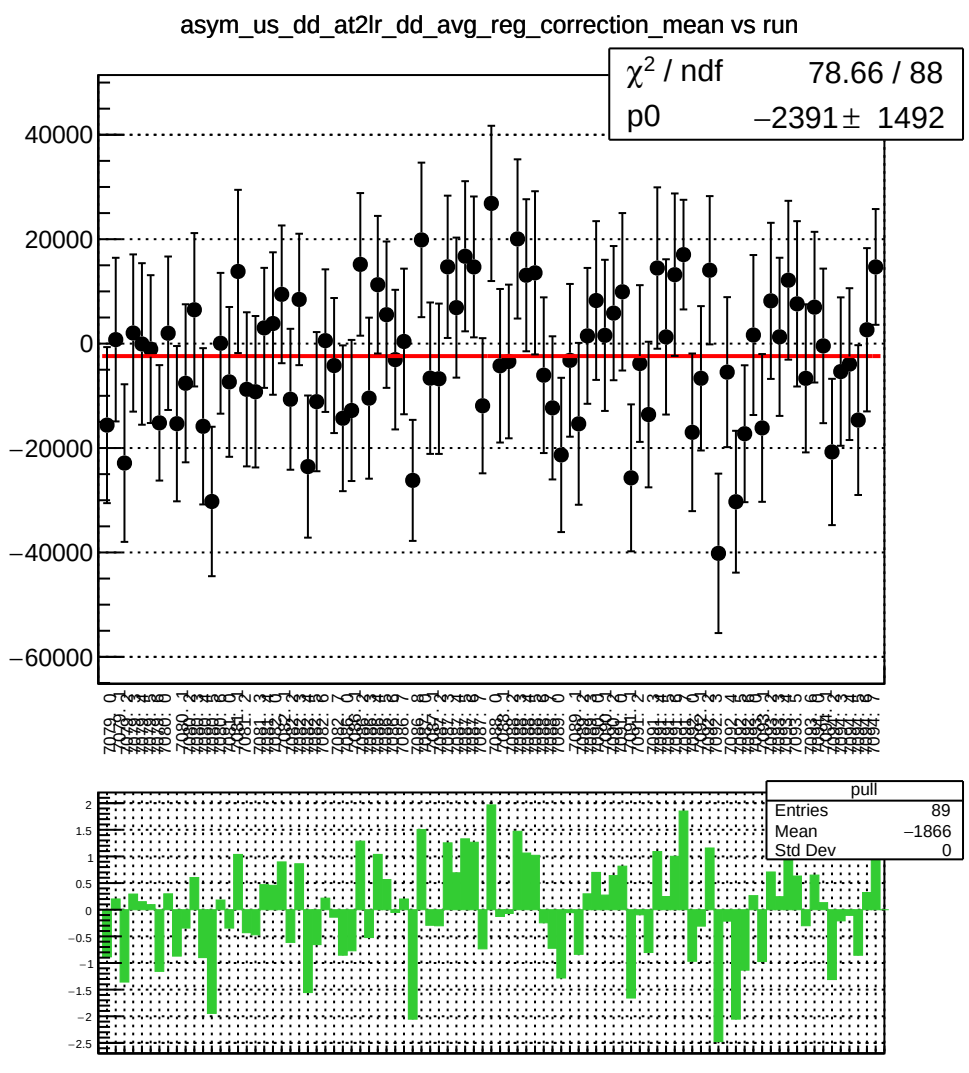


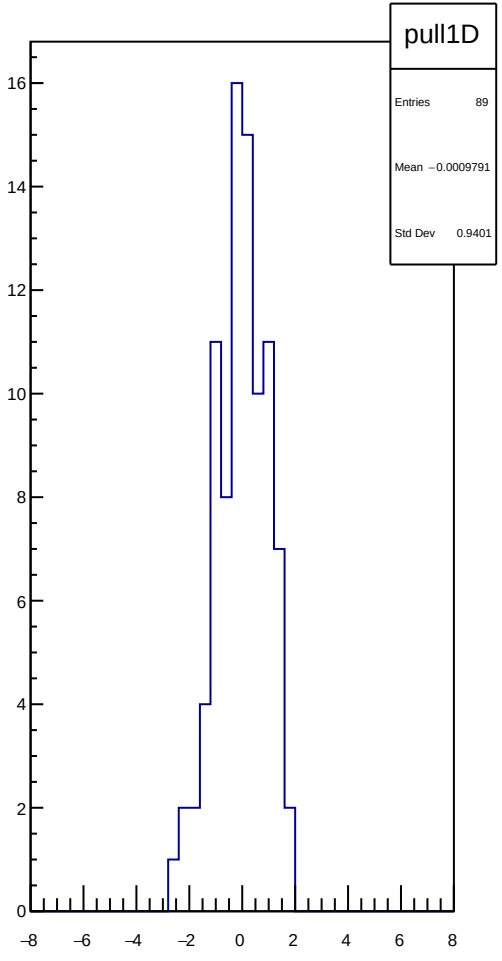

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.033e+05 / 88
p0 1.097e−11 ± 1.106e−14
0.12
0.1
0.08
0.06
0.04
0.02

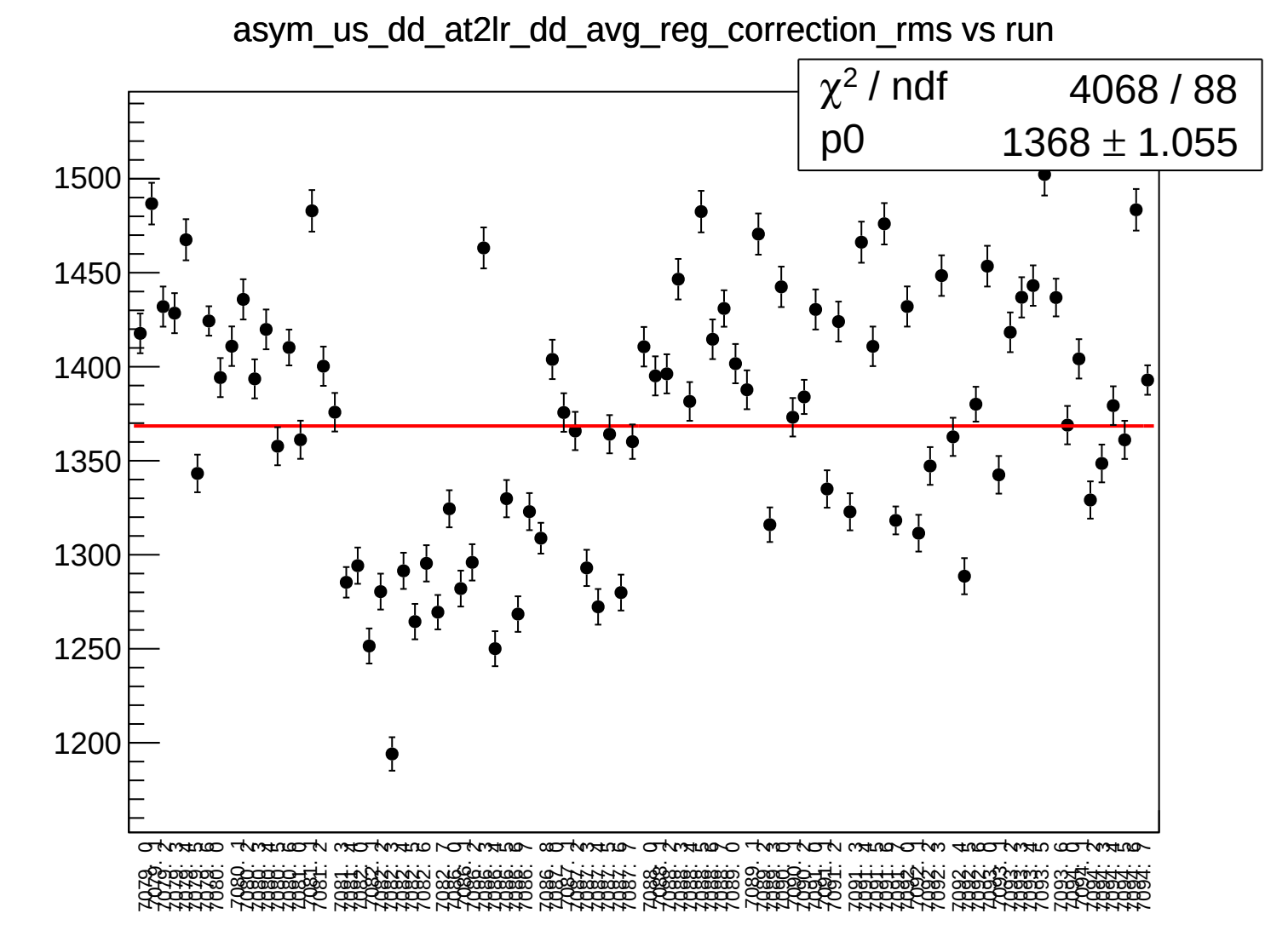

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 107.9 / 88
p0 1505 ± 2346
pull
Entries 89
Mean −283.3
Std Dev 0

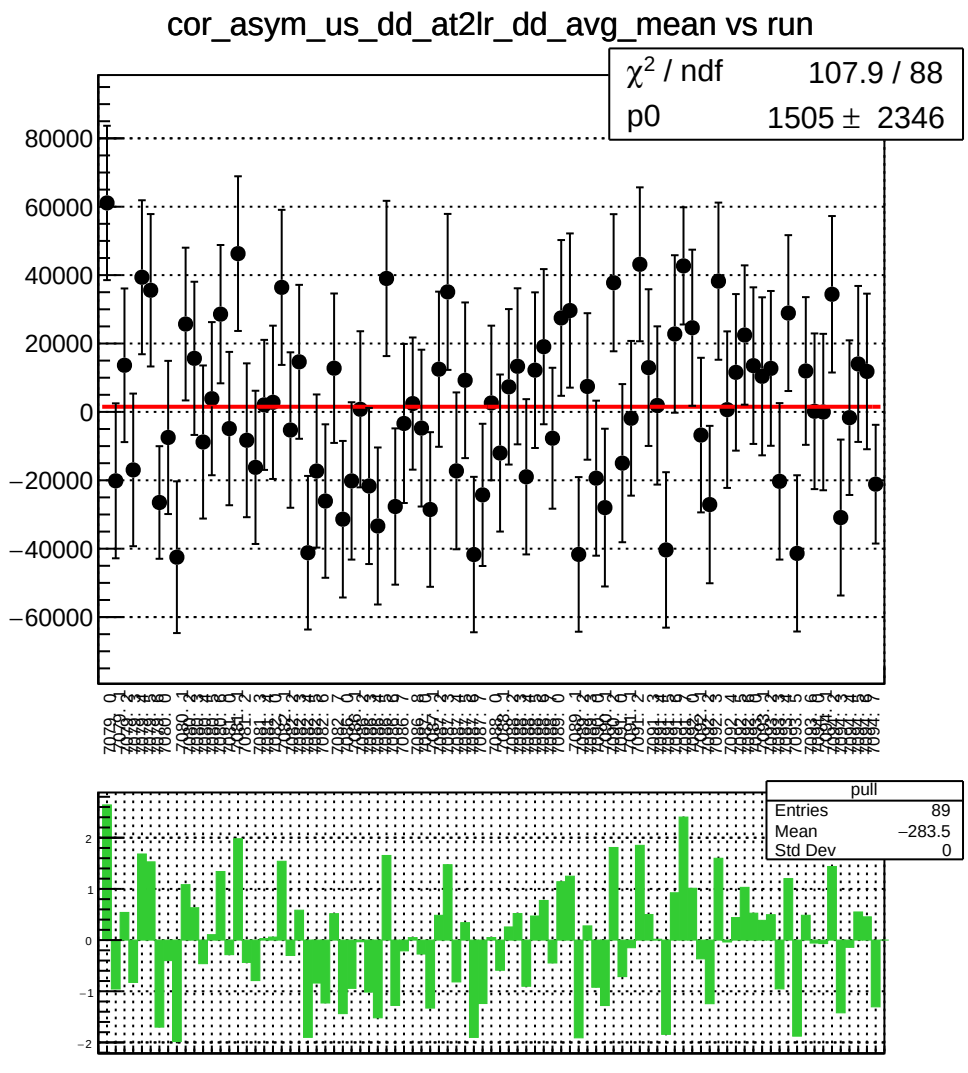

pull1D
Entries 89
Mean −0.002439
Std Dev 1.101

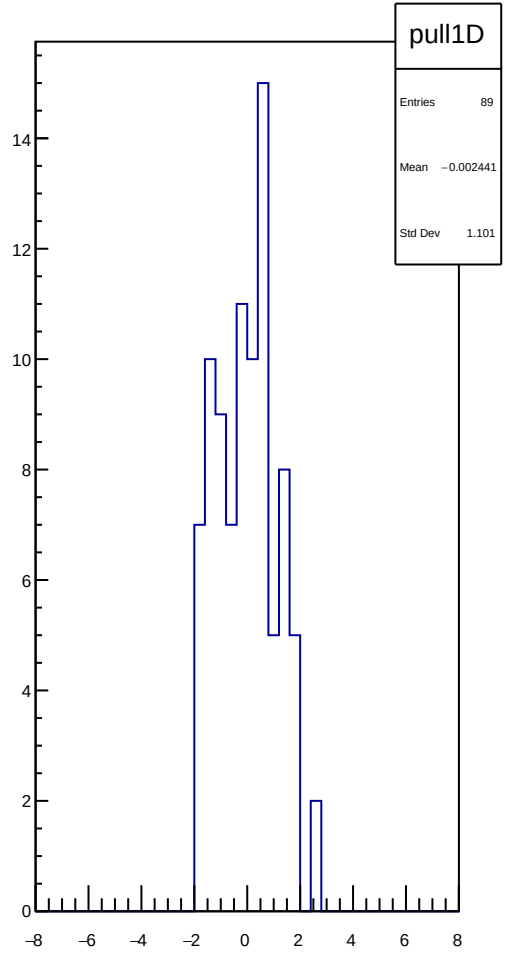

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 177.2 / 88
p0 2154 ± 1.659
2220
2200
2180
2160
2140
2120
2100
2080

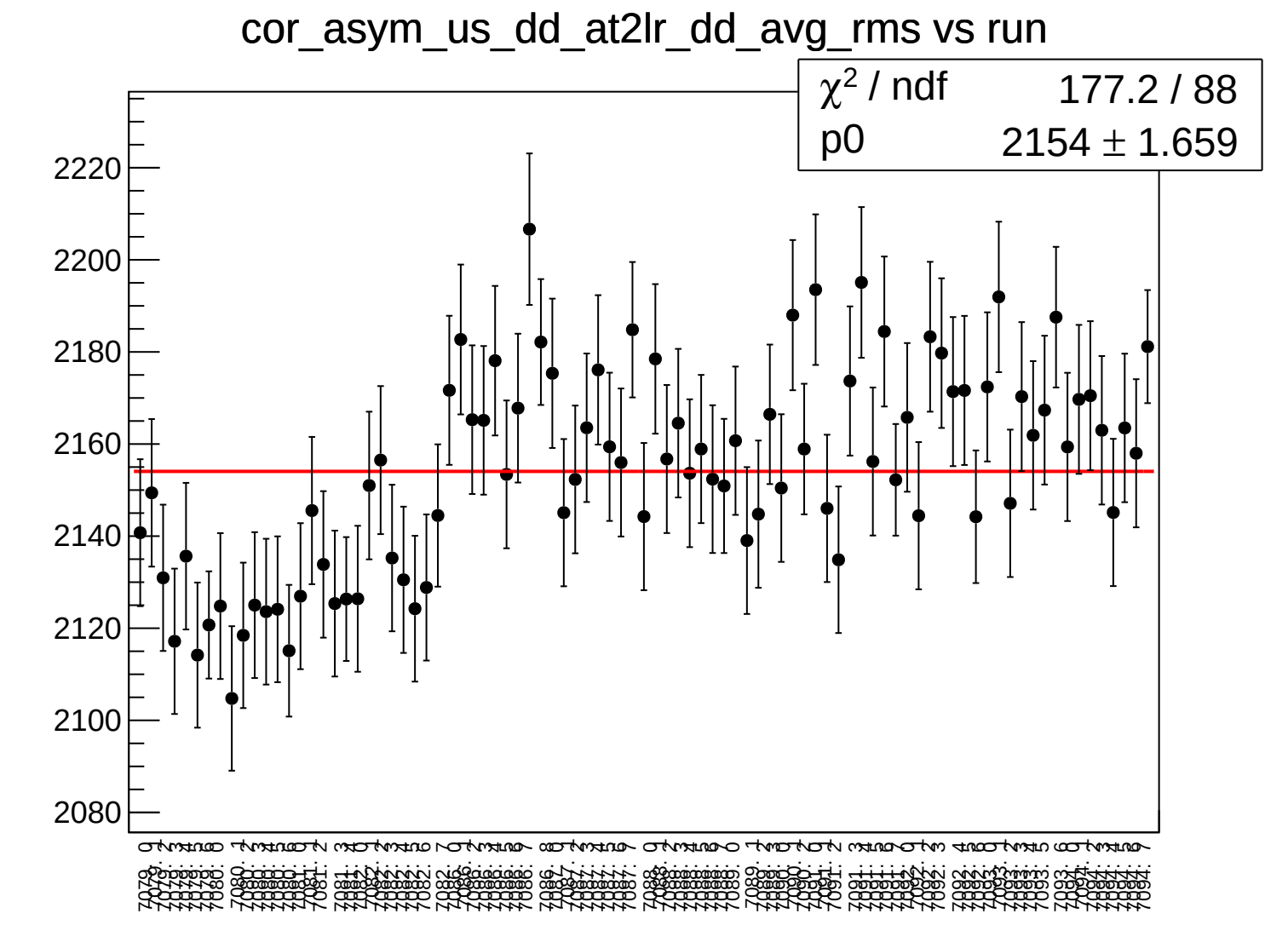

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 78.66 / 88
p0 −2391 ± 1492
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1866
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

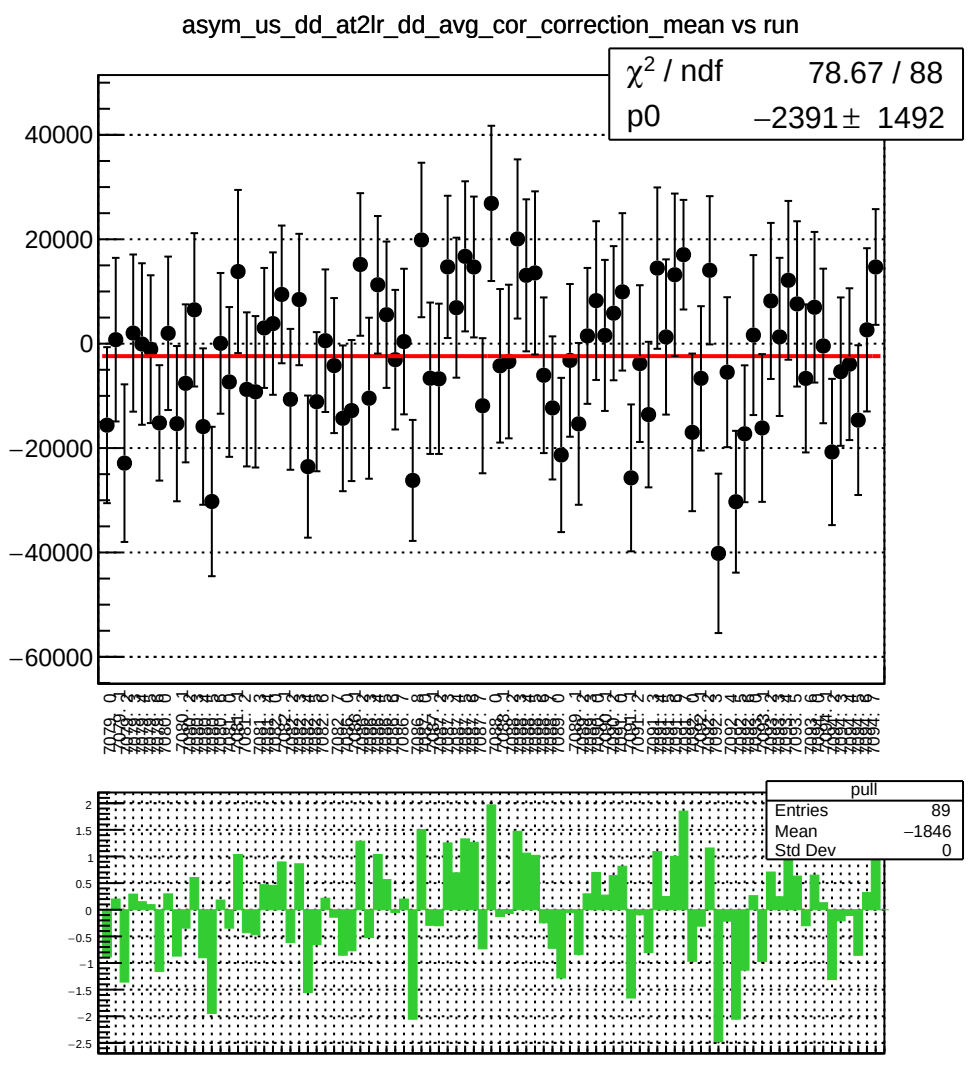

pull1D
Entries 89
Mean −0.0009791
Std Dev 0.9401
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

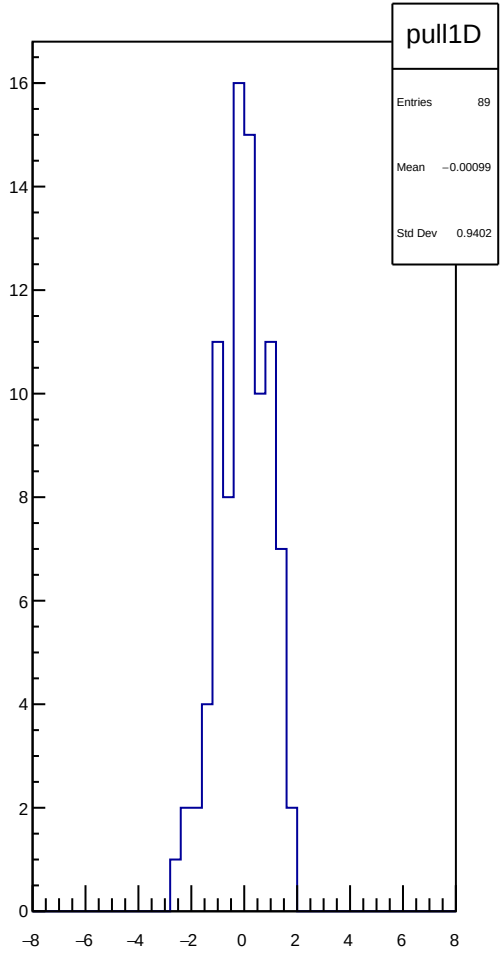

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 4068 / 88
p0 1368 ± 1.055
1500
1450
1400
1350
1300
1250
1200

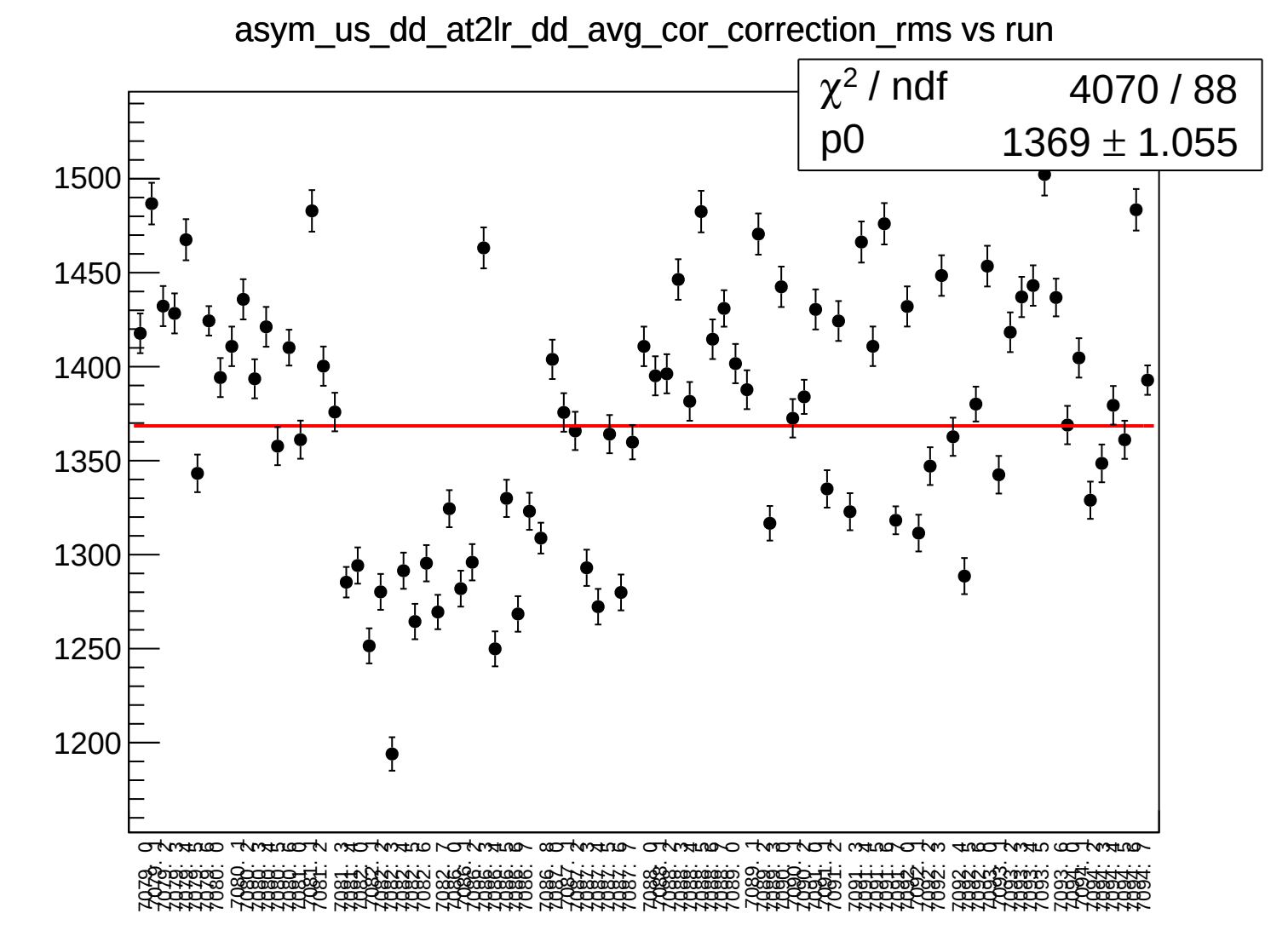

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 107.9 / 88
p0 1505 ± 2346
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −283.5
Std Dev 0
2
1
0
−1
−2

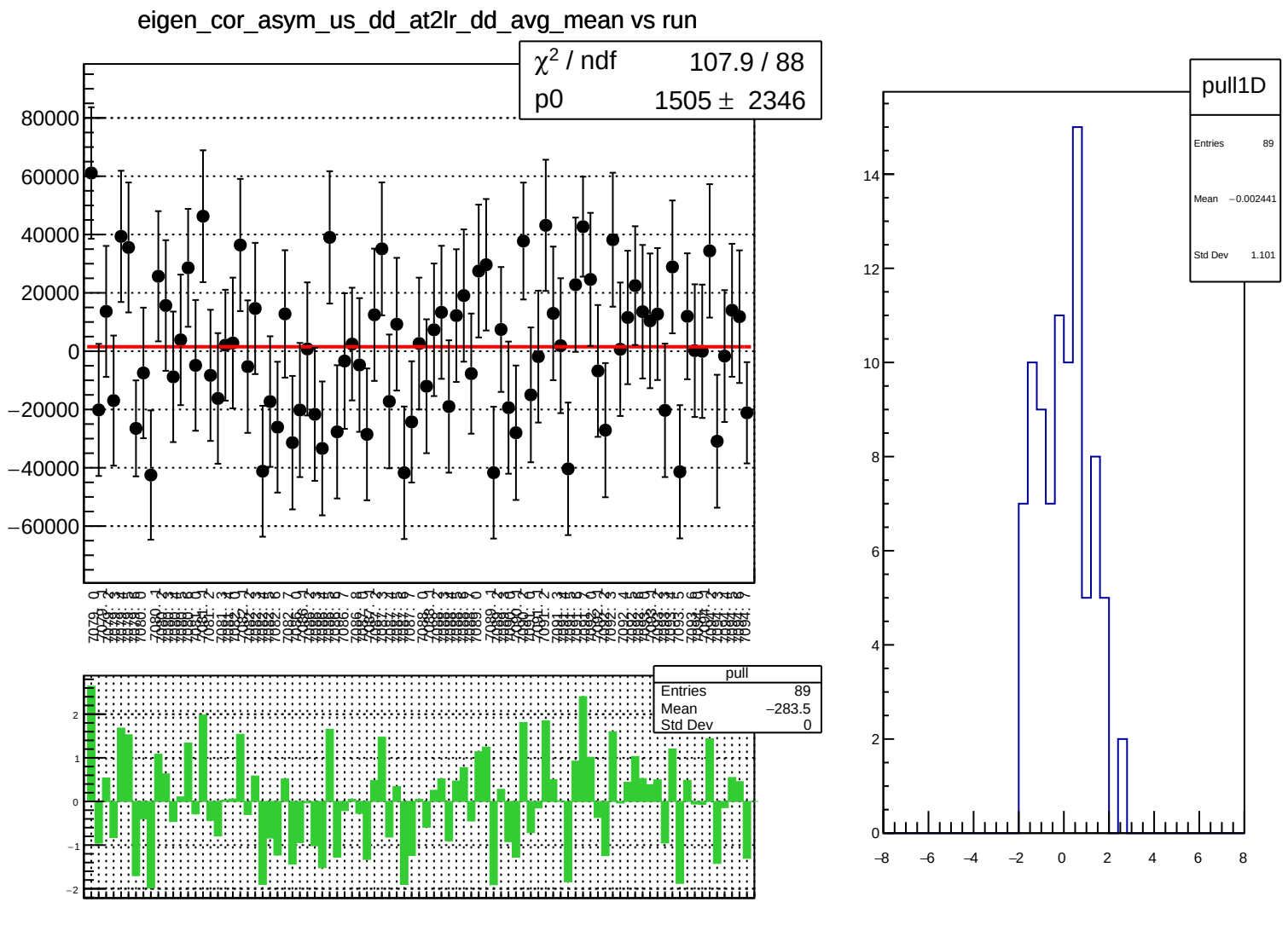

pull1D
Entries 89
Mean −0.002441
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

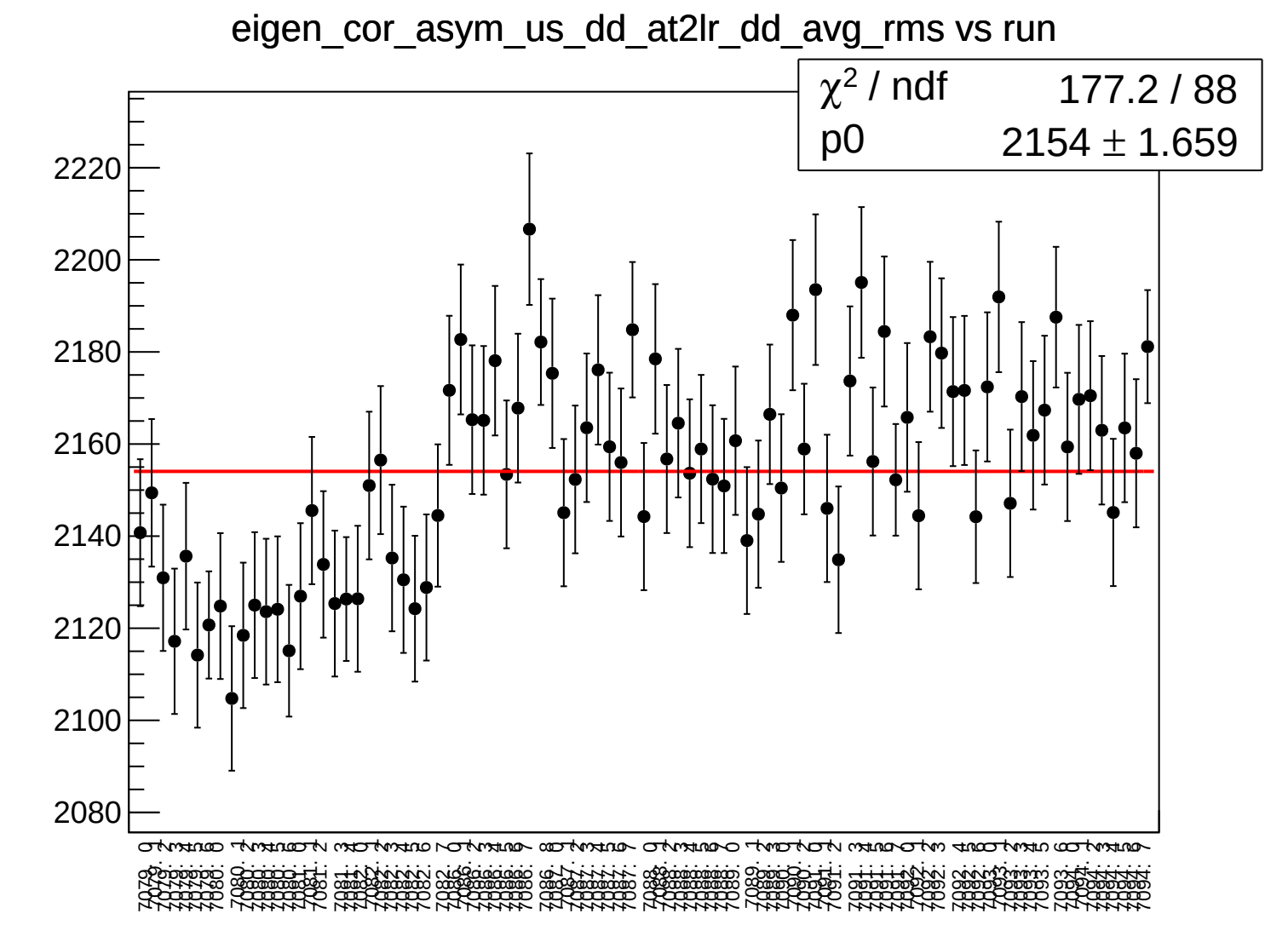

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 177.2 / 88
p0 2154 ± 1.659
2220
2200
2180
2160
2140
2120
2100
2080

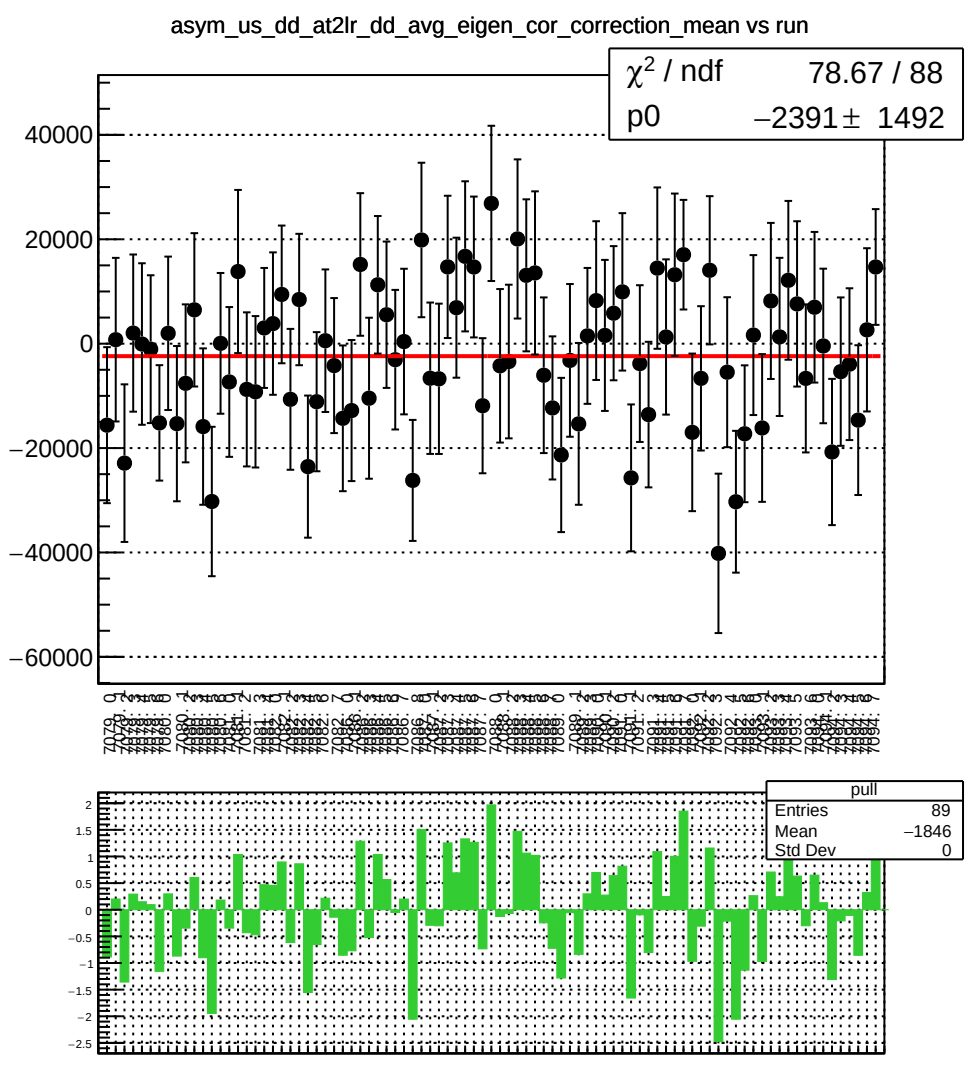

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 78.67 / 88
p0 −2391 ± 1492
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1846
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

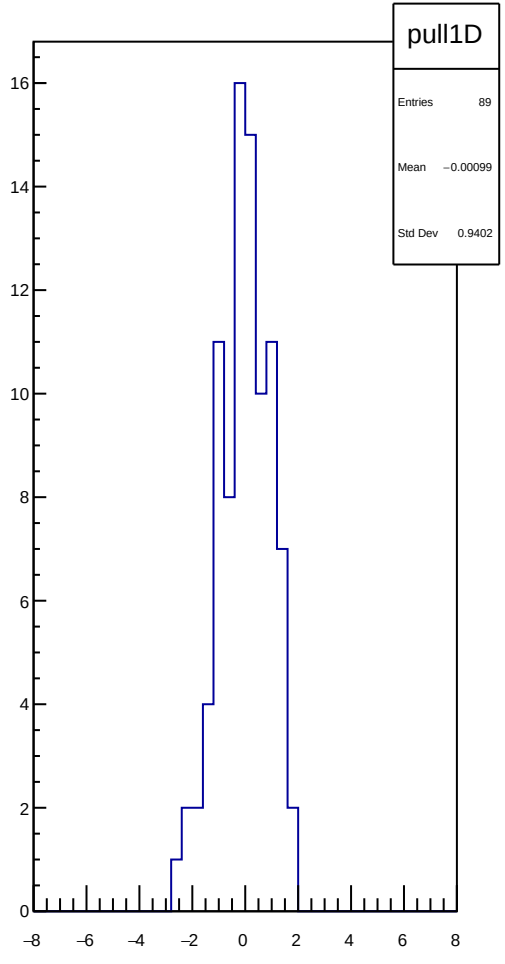

pull1D
Entries 89
Mean −0.00099
Std Dev 0.9402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

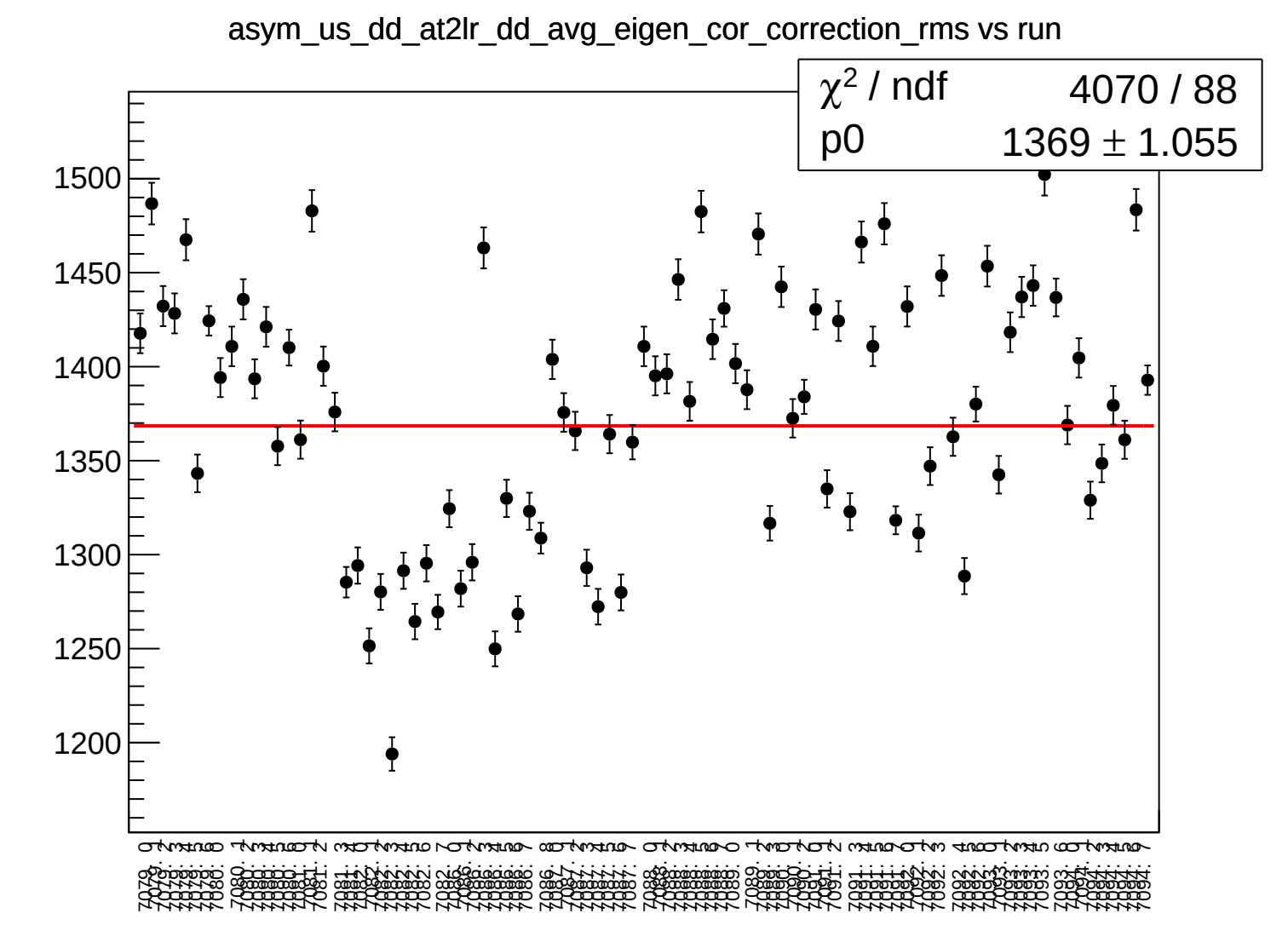

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 4070 / 88
p0 1369 ± 1.055
1500
1450
1400
1350
1300
1250
1200

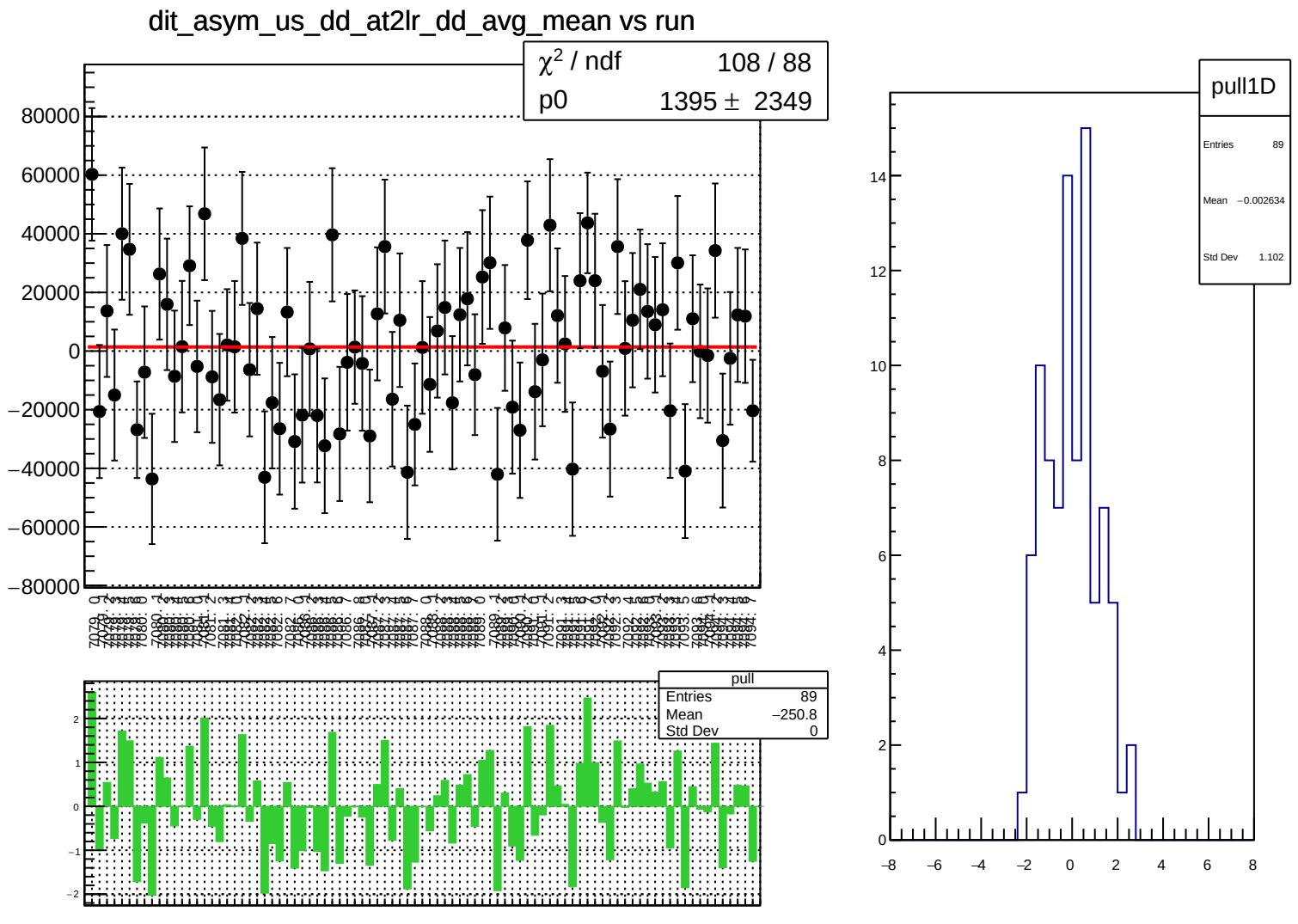

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 107.9 / 88
p0 1505 ± 2346
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −283.5
Std Dev 0
pull1D
Entries 89
Mean −0.002441
Std Dev 1.101

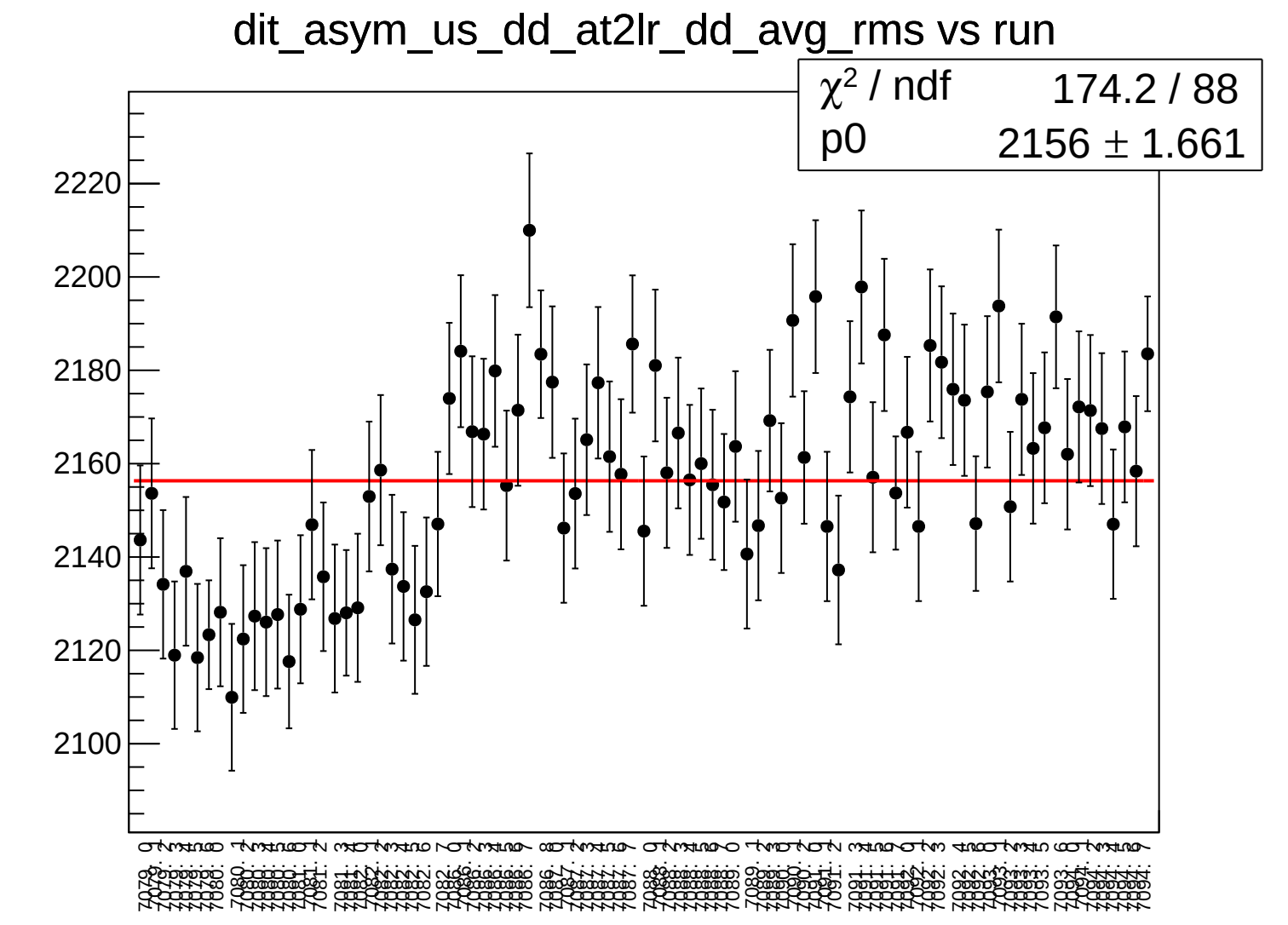

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 177.2 / 88
p0 2154 ± 1.659
2220
2200
2180
2160
2140
2120
2100
2080

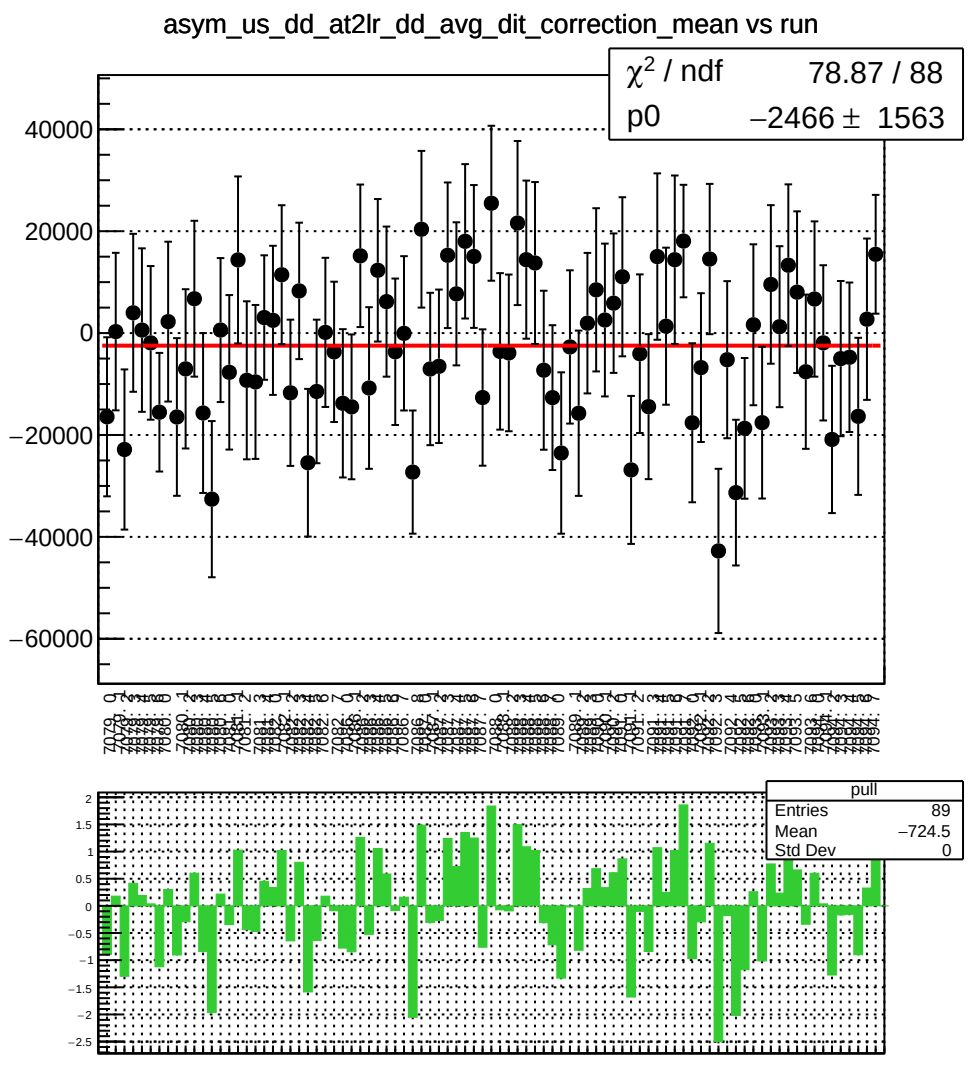

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.67 / 88
p0 −2391 ± 1492
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1846
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

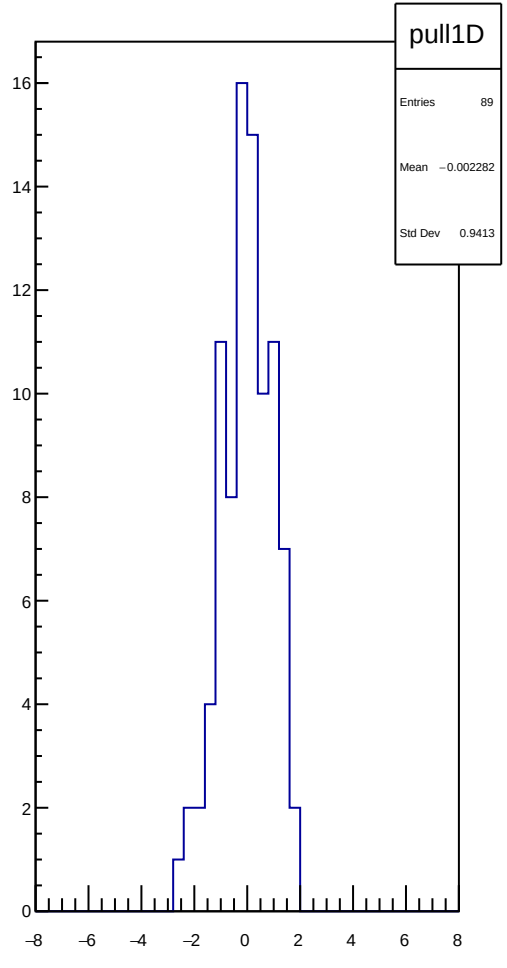

pull1D
Entries 89
Mean −0.00099
Std Dev 0.9402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

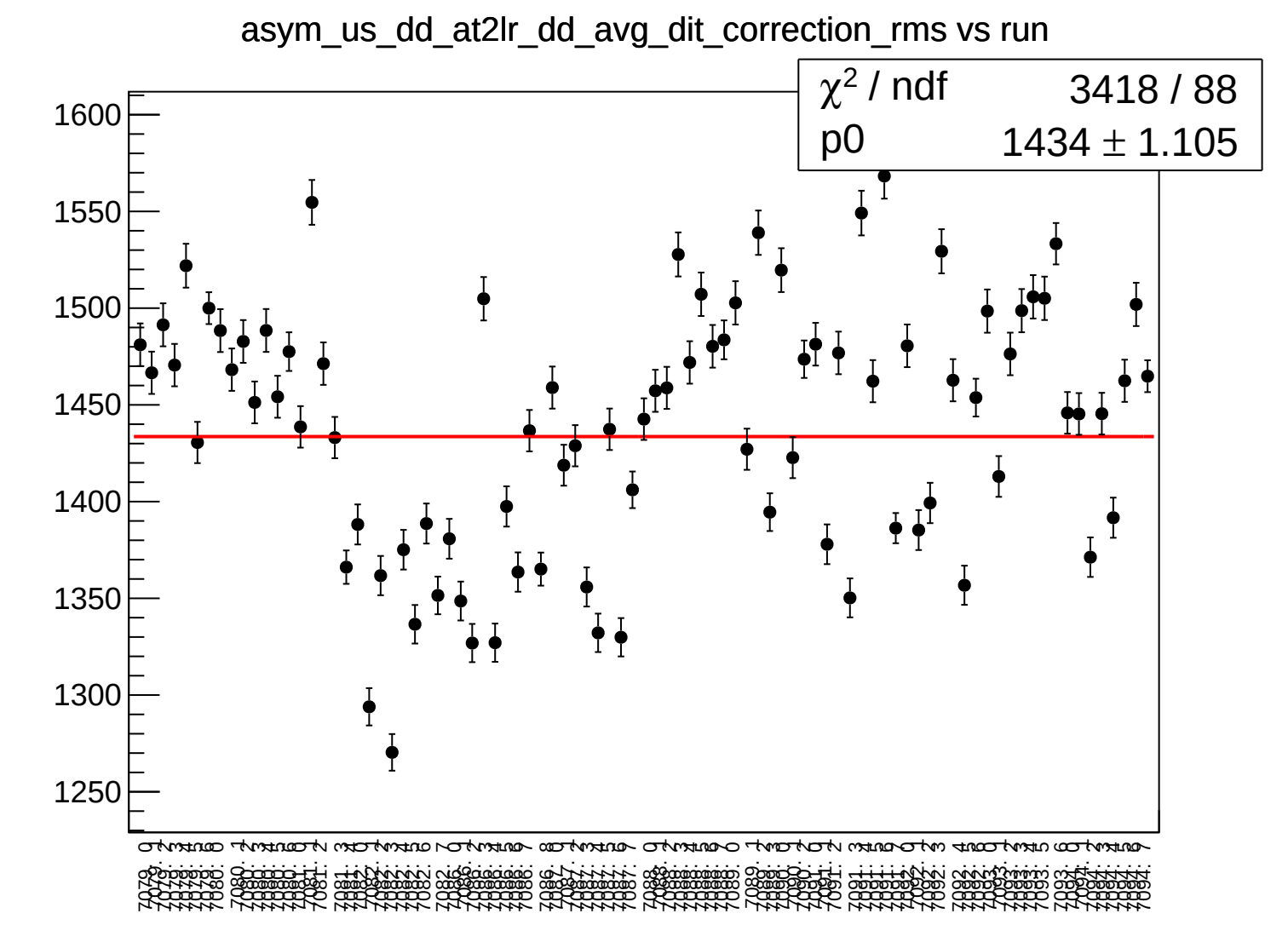

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4070 / 88
p0 1369 ± 1.055
1500
1450
1400
1350
1300
1250
1200

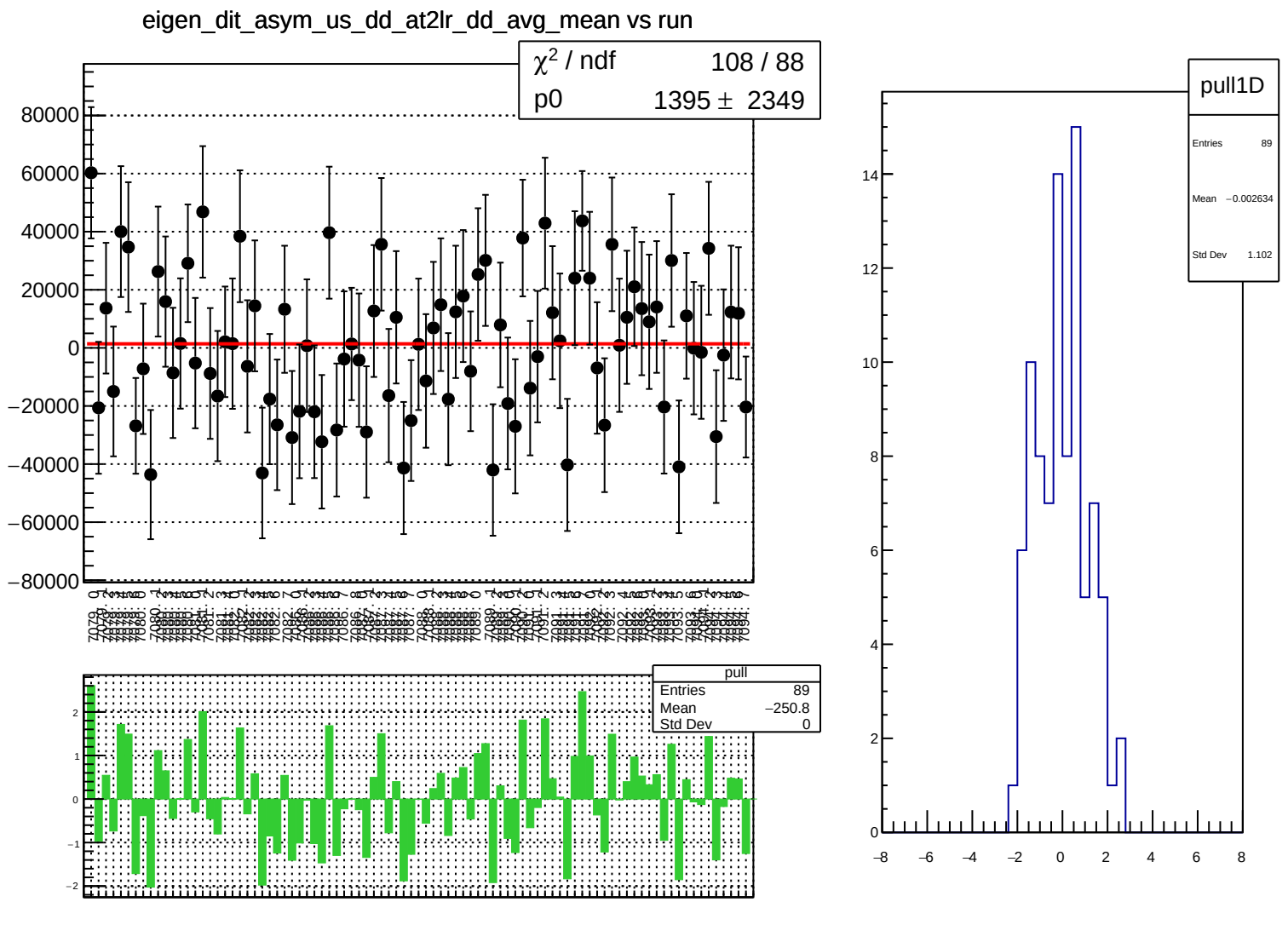

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 108 / 88
p0 1395 ± 2349
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −250.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.002634
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

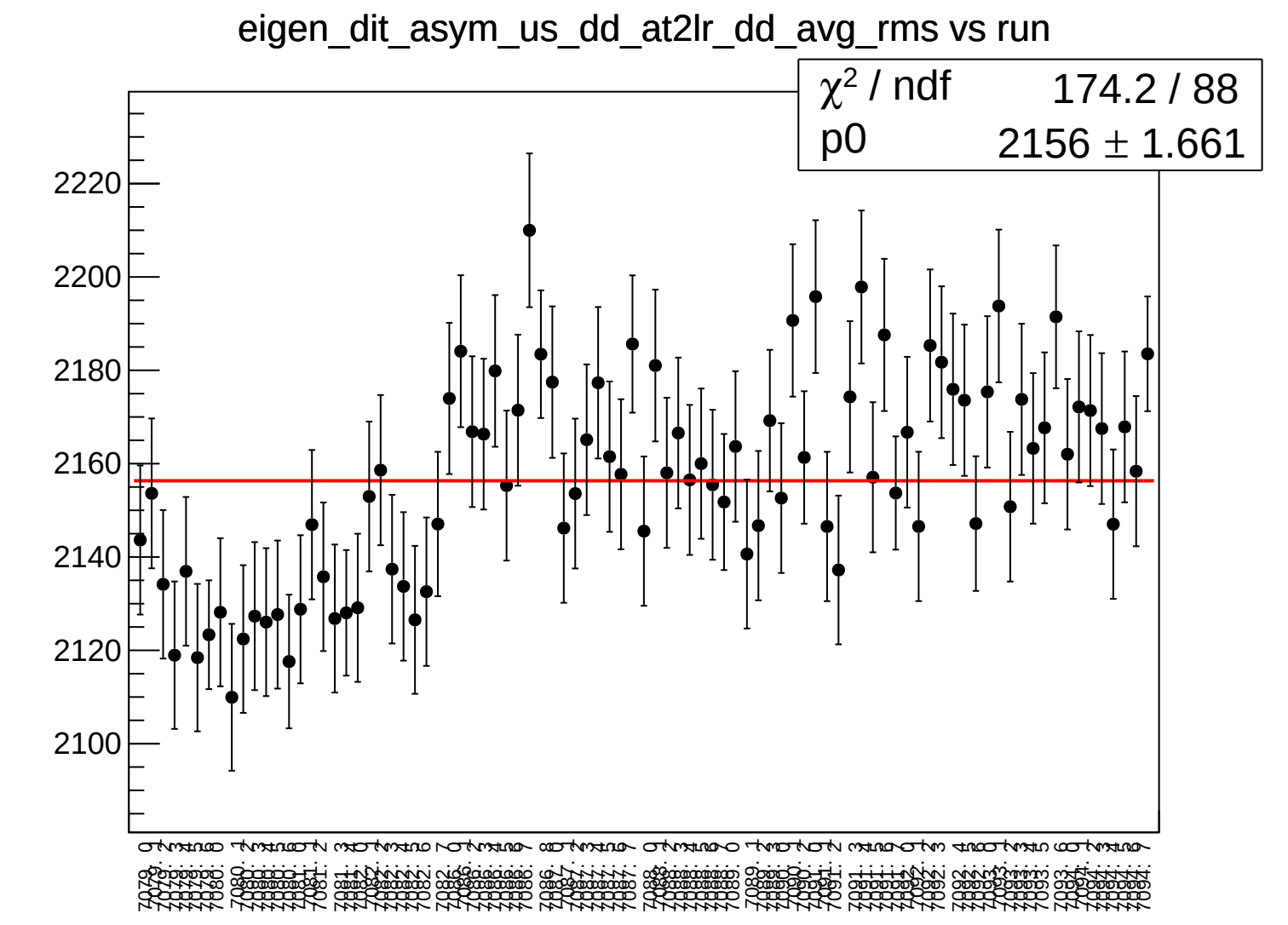

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 174.2 / 88
p0 2156 ± 1.661
2220
2200
2180
2160
2140
2120
2100

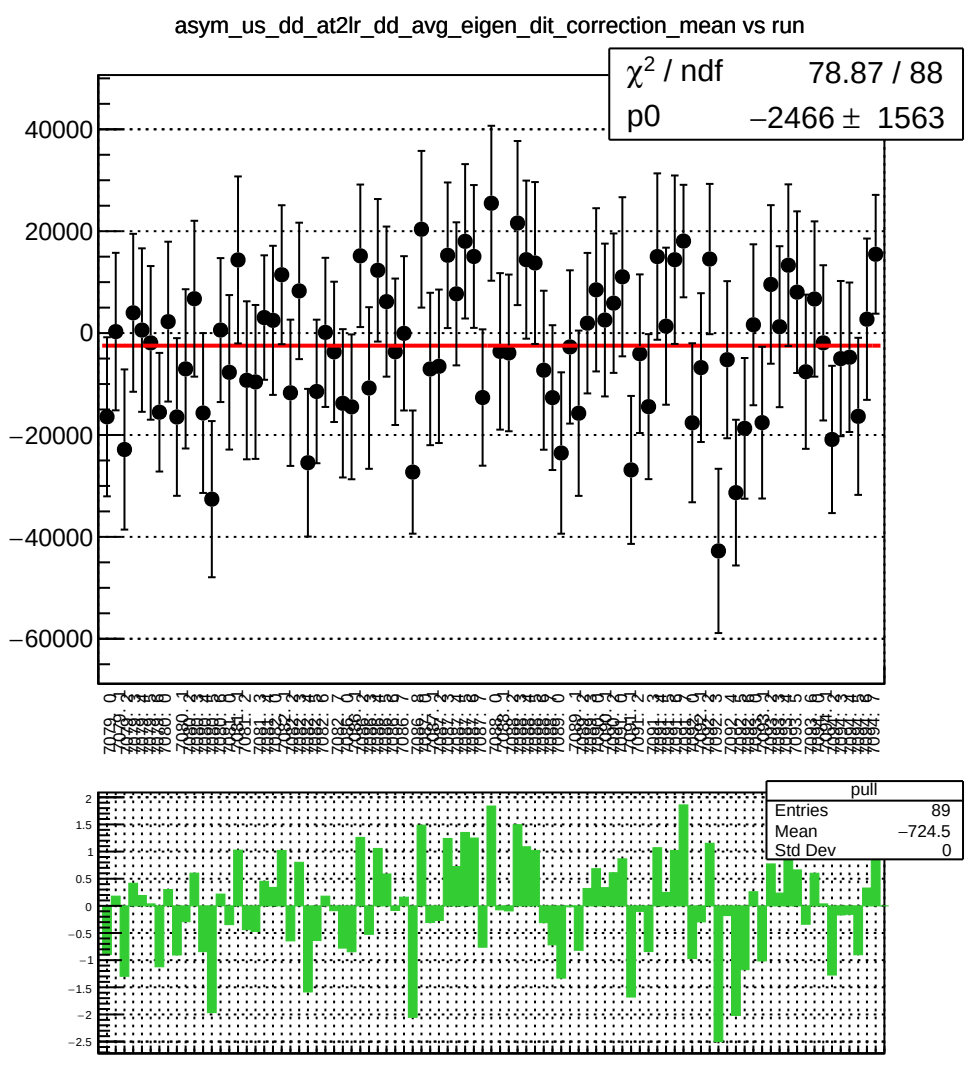

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 78.87 / 88
p0 −2466 ± 1563
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −724.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

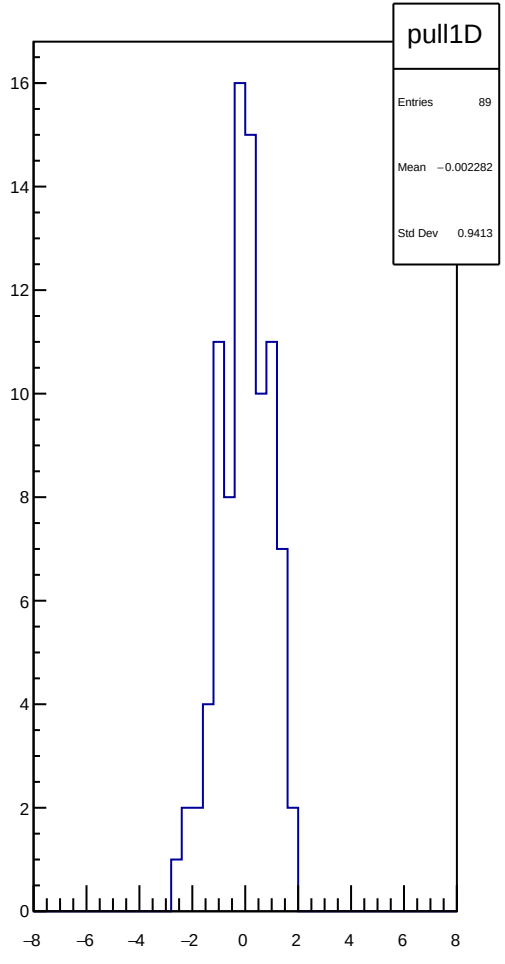

pull1D
Entries 89
Mean −0.002282
Std Dev 0.9413
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

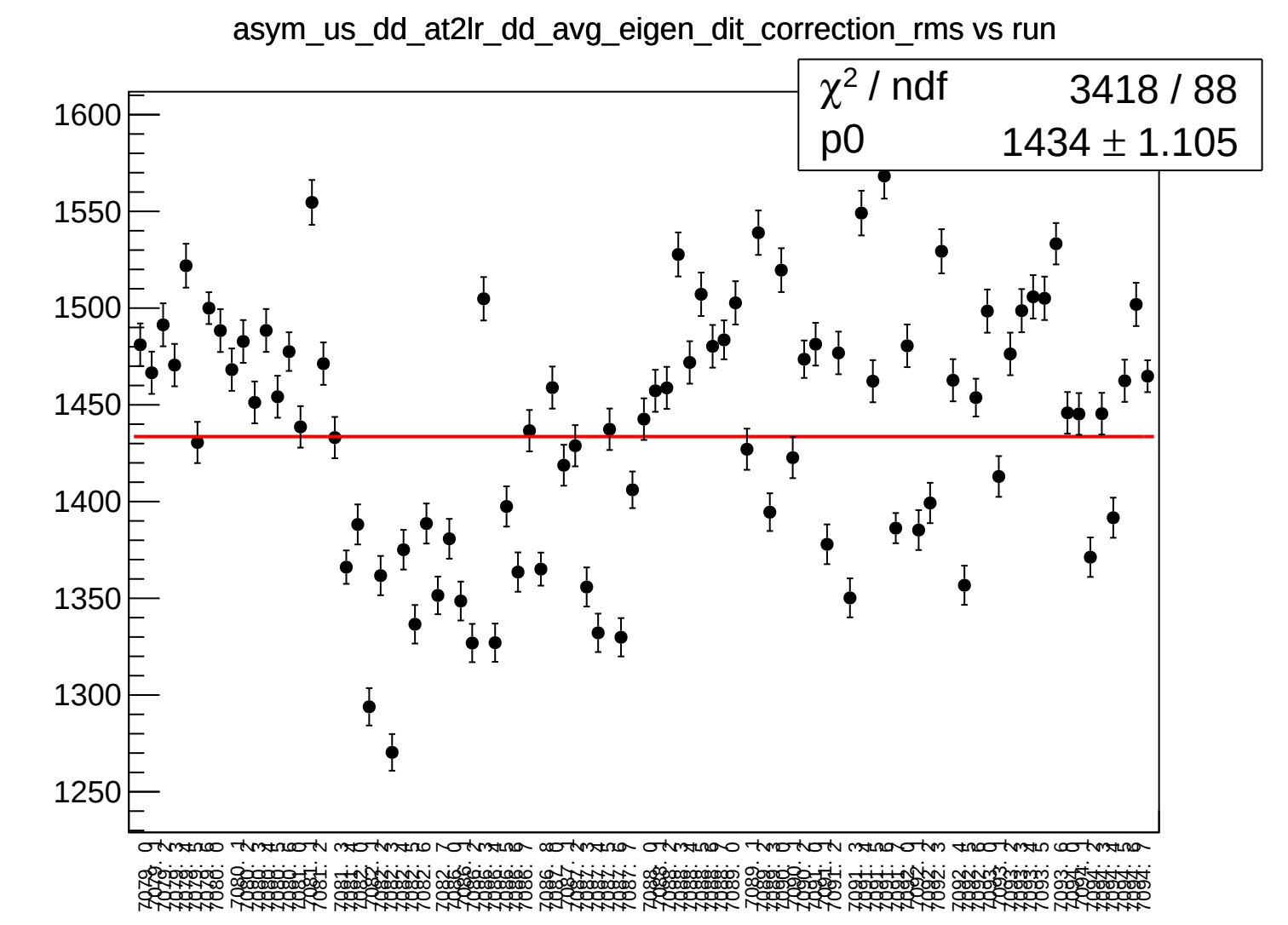

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3418 / 88
p0 1434 ± 1.105
1600
1550
1500
1450
1400
1350
1300
1250

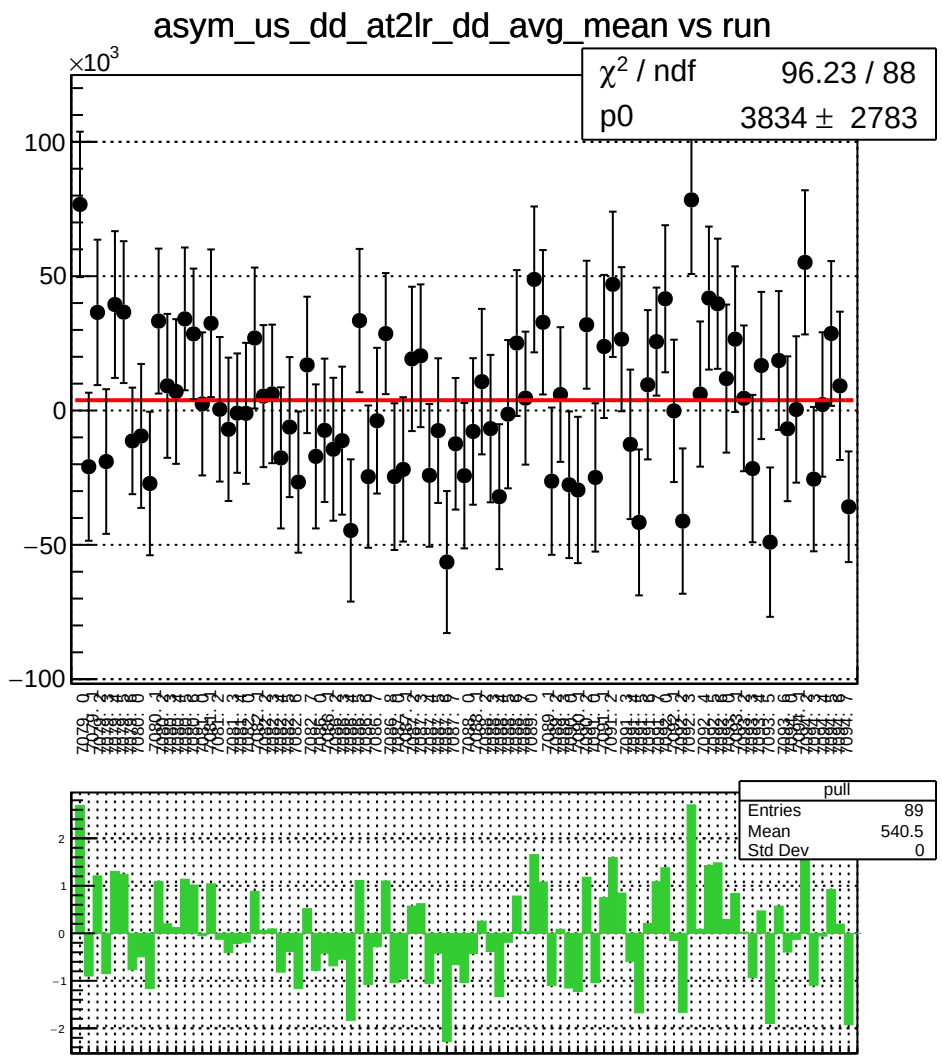

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 108 / 88
p0 1395 ± 2349
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −250.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.002634
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

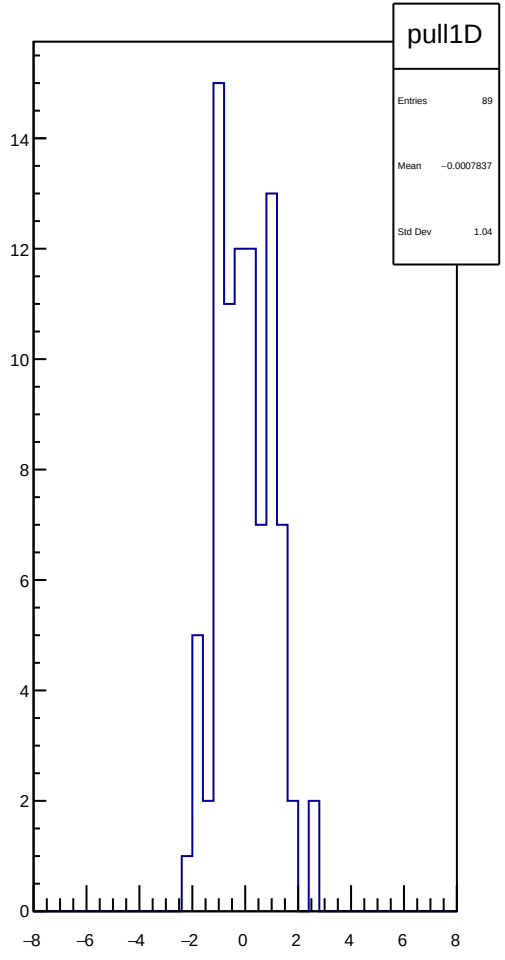

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 174.2 / 88
p0 2156 ± 1.661
2220
2200
2180
2160
2140
2120
2100

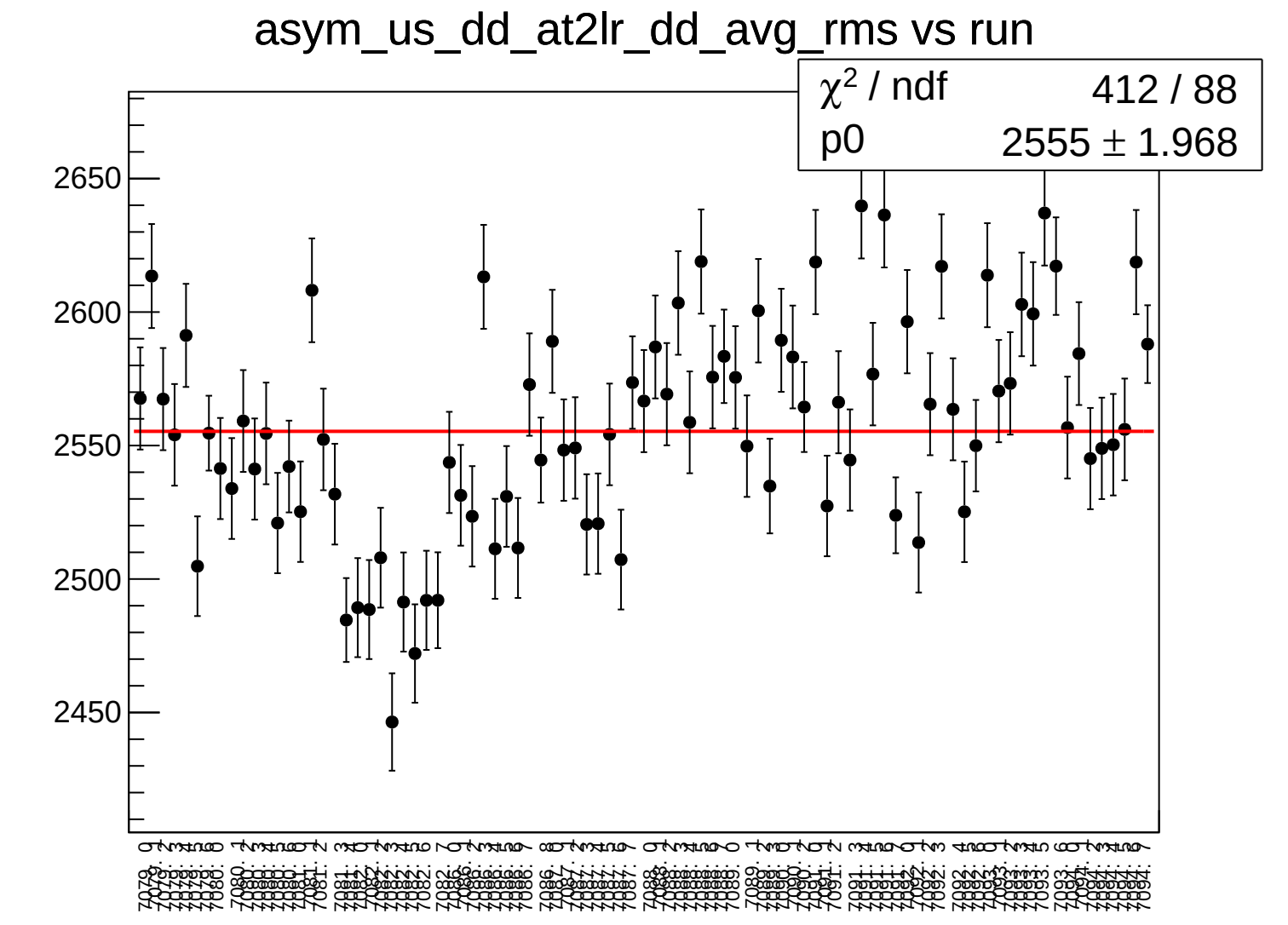

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.87 / 88
p0 −2466 ± 1563
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −724.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

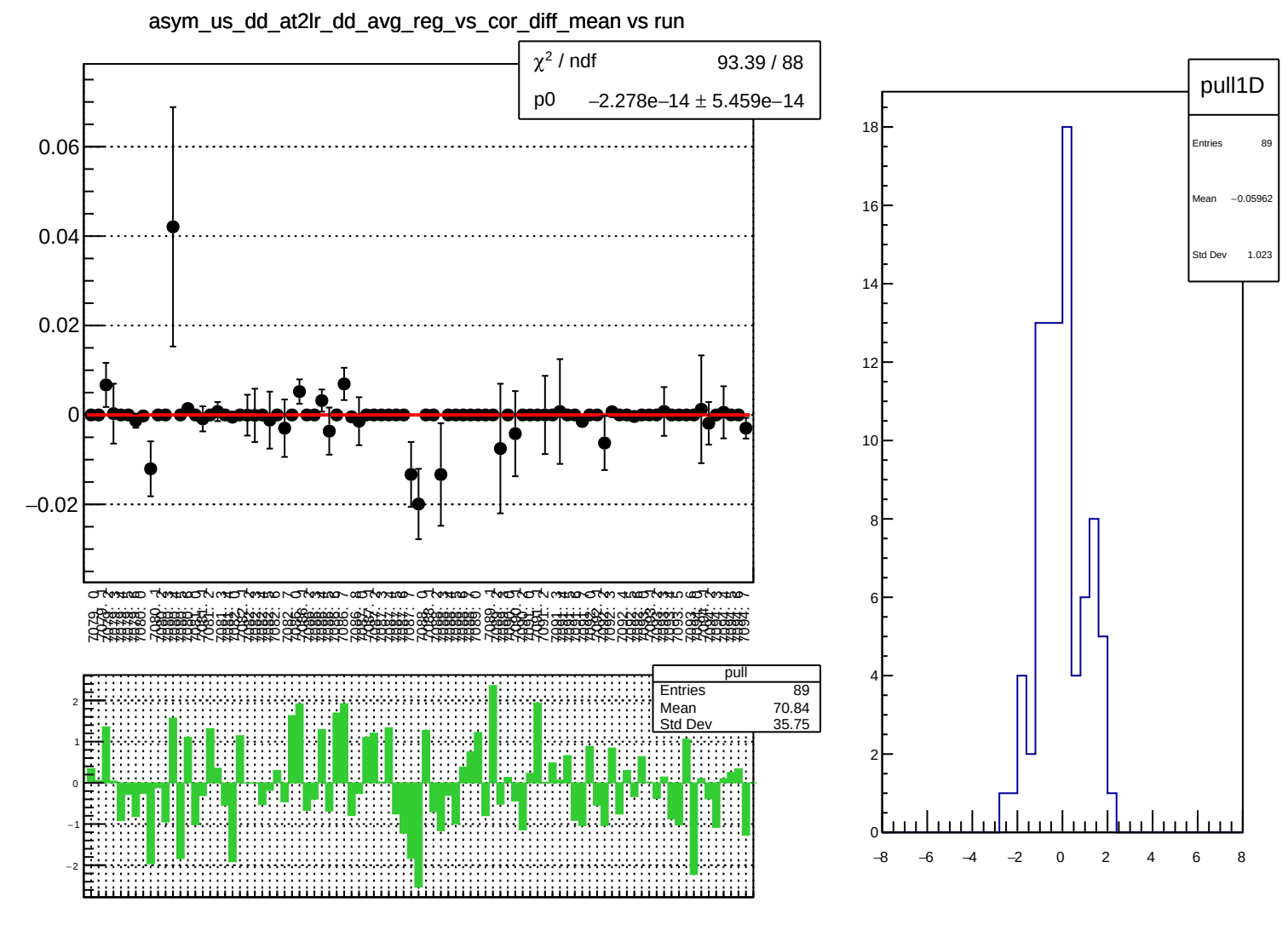

pull1D
Entries 89
Mean −0.002282
Std Dev 0.9413
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

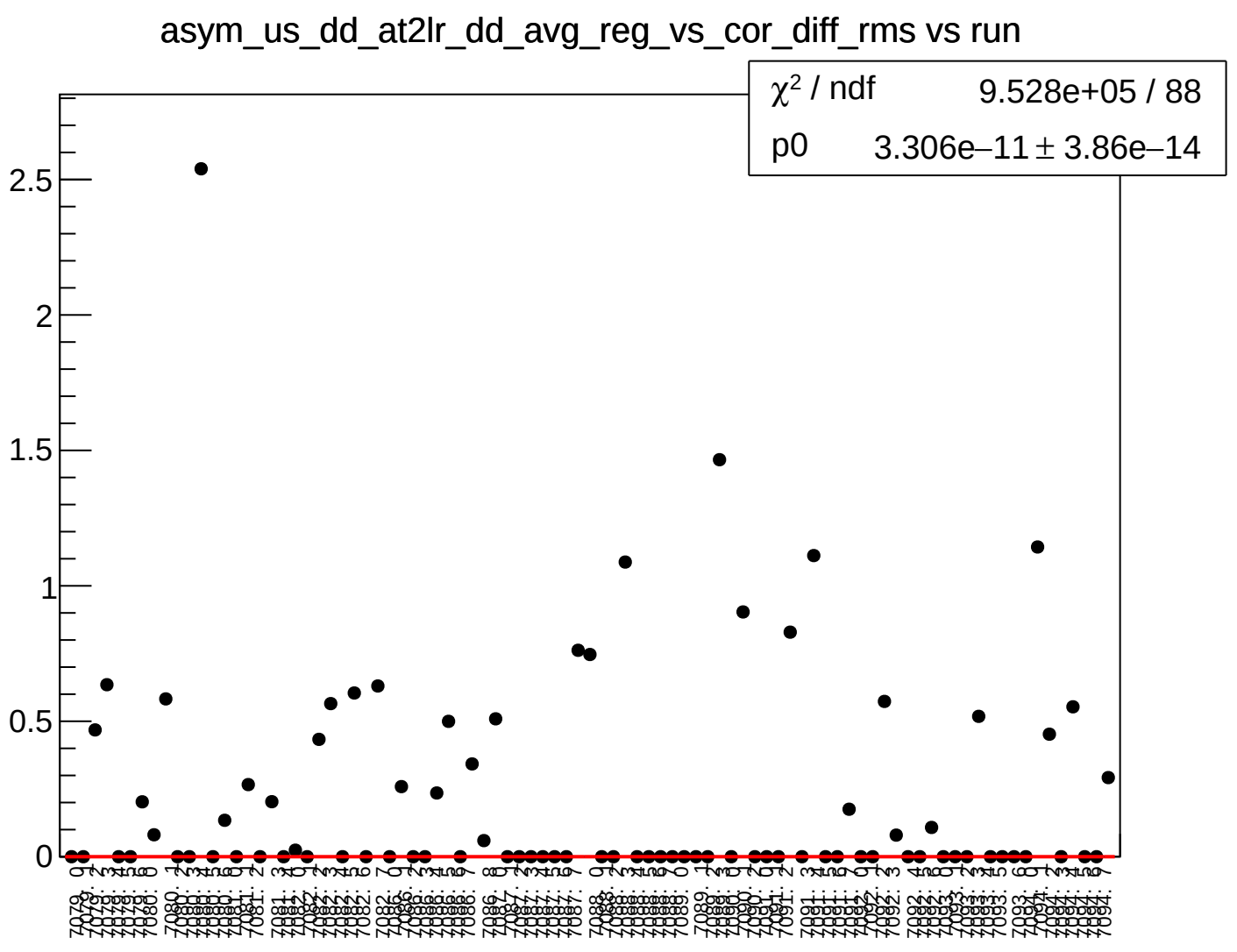

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3418 / 88
p0 1434 ± 1.105
1600
1550
1500
1450
1400
1350
1300
1250

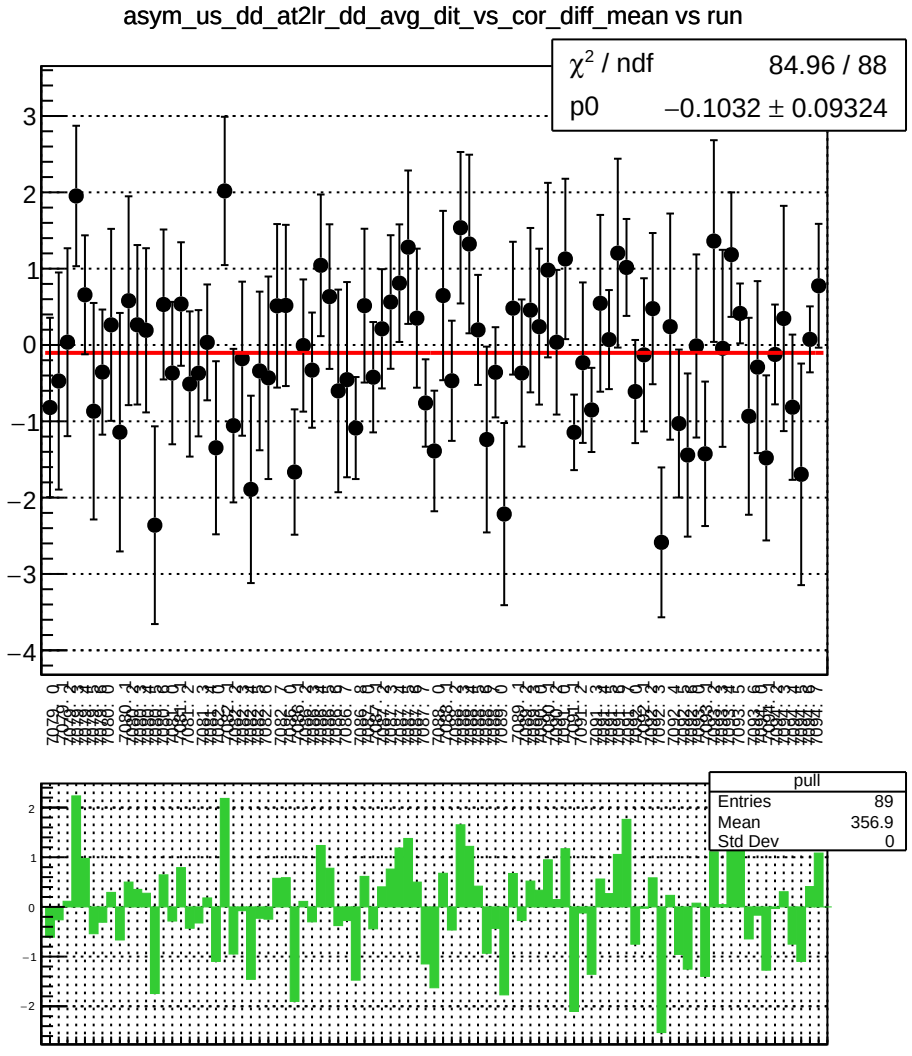

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 96.23 / 88
p0 3834 ± 2783
100
50
0
−50
−100
pull
Entries 89
Mean 540.5
Std Dev 0
2
1
0
−1
−2

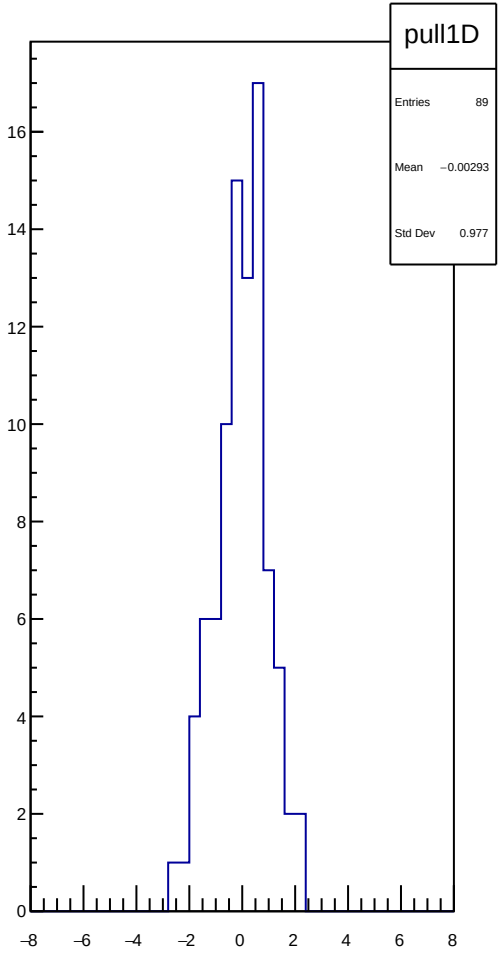

pull1D
Entries 89
Mean −0.0007837
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

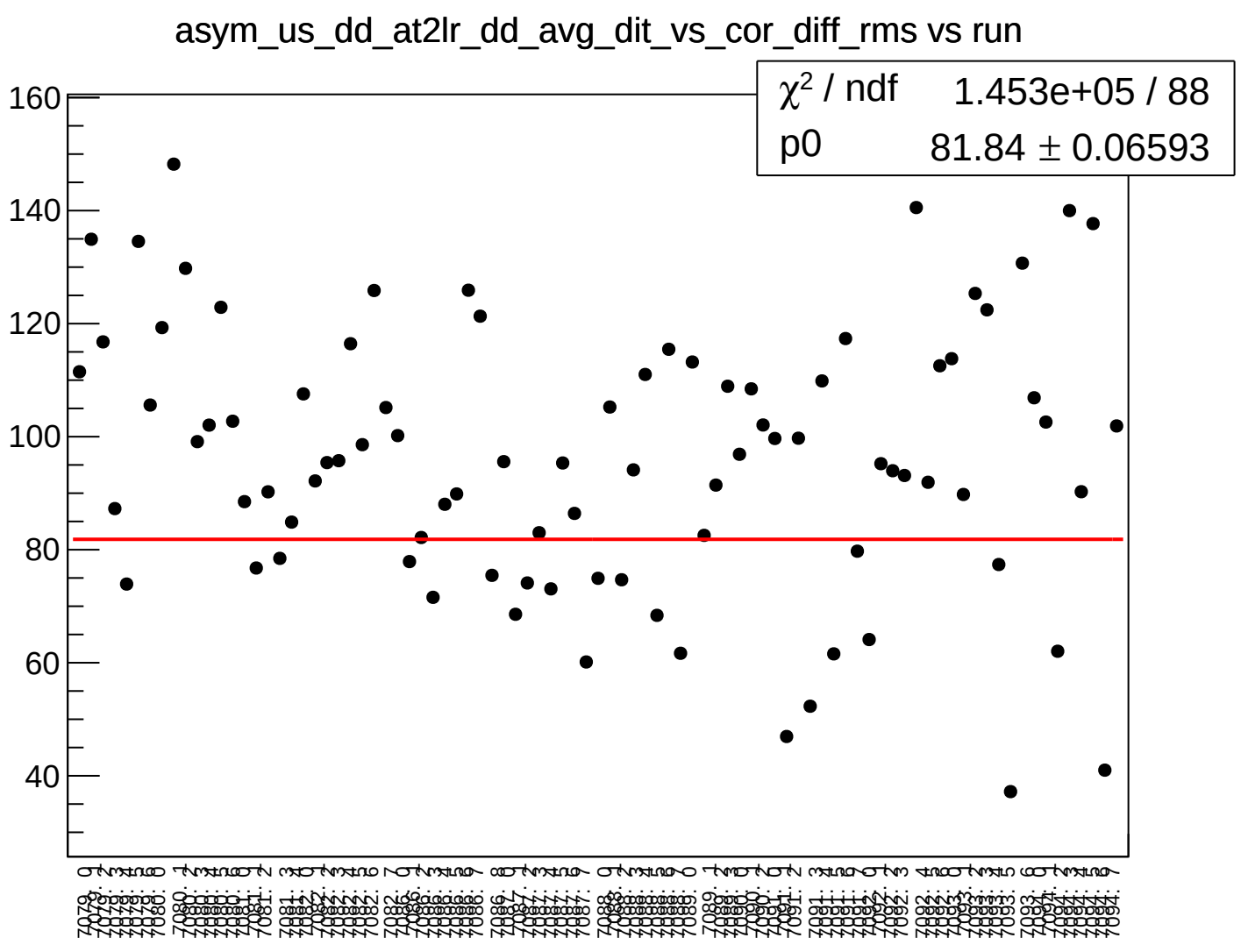

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 412 / 88
p0 2555 ± 1.968
2650
2600
2550
2500
2450

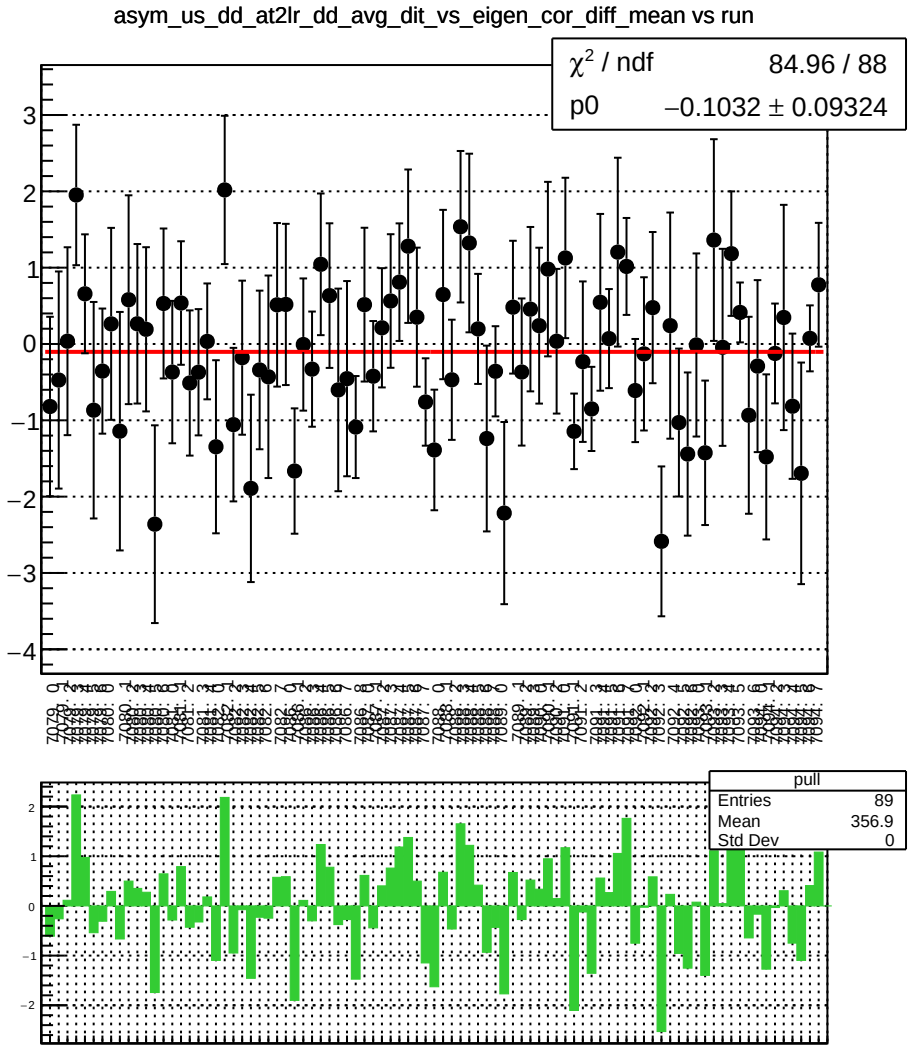

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.39 / 88
p0 −2.278e−14 ± 5.459e−14
0.06
0.04
0.02
0
−0.02
pull
Entries 89
Mean 70.84
Std Dev 35.75
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.05962
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

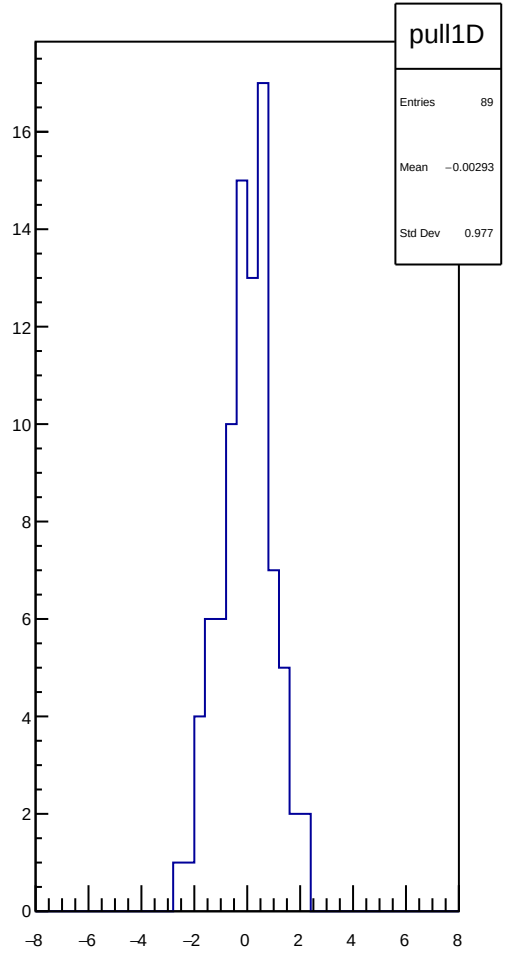

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.528e+05 / 88
p0 3.306e−11 ± 3.86e−14
2.5
2
1.5
1
0.5
0

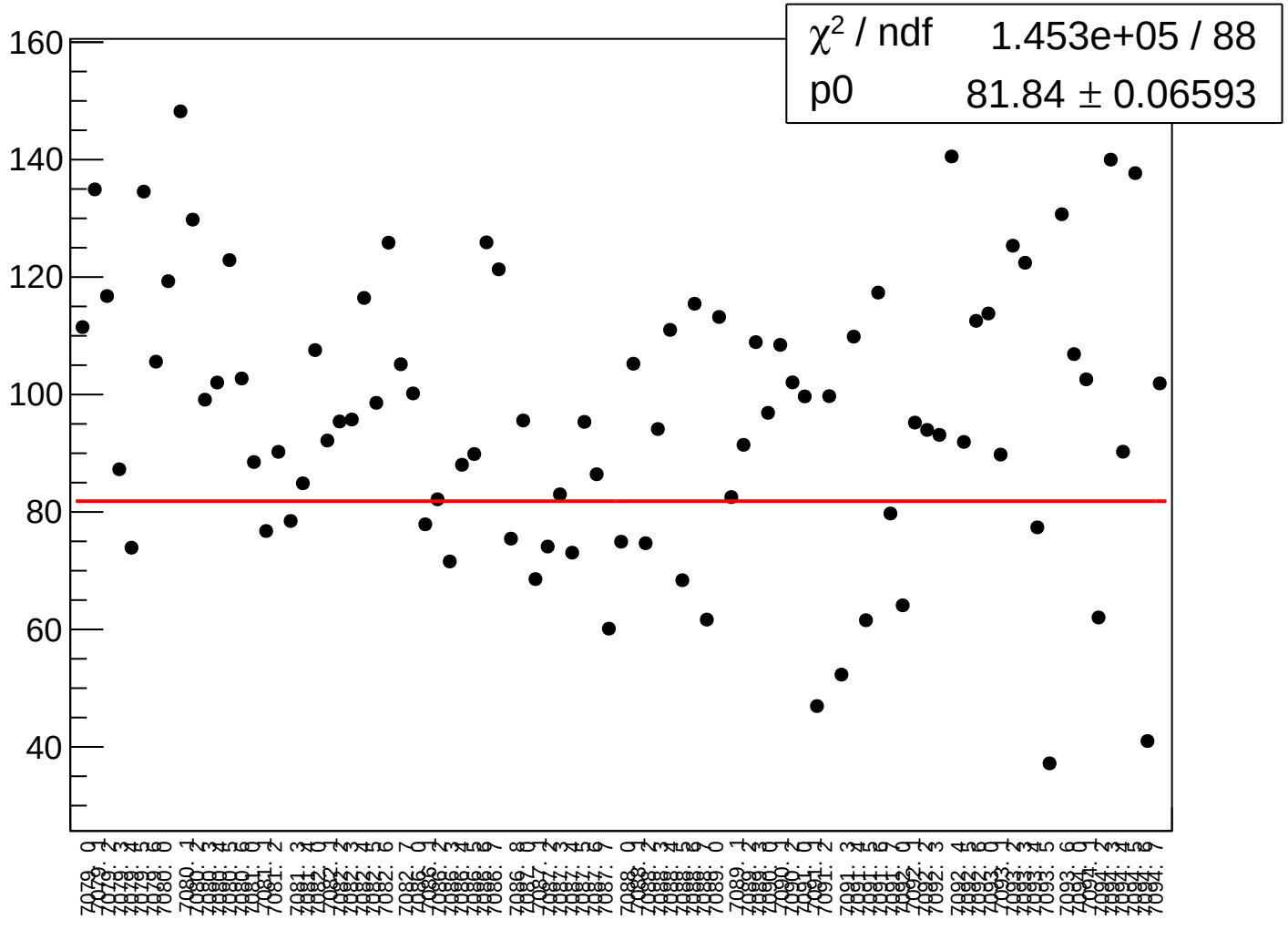

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.96 / 88
p0 −0.1032 ± 0.09324
pull
Entries 89
Mean 356.9
Std Dev 0

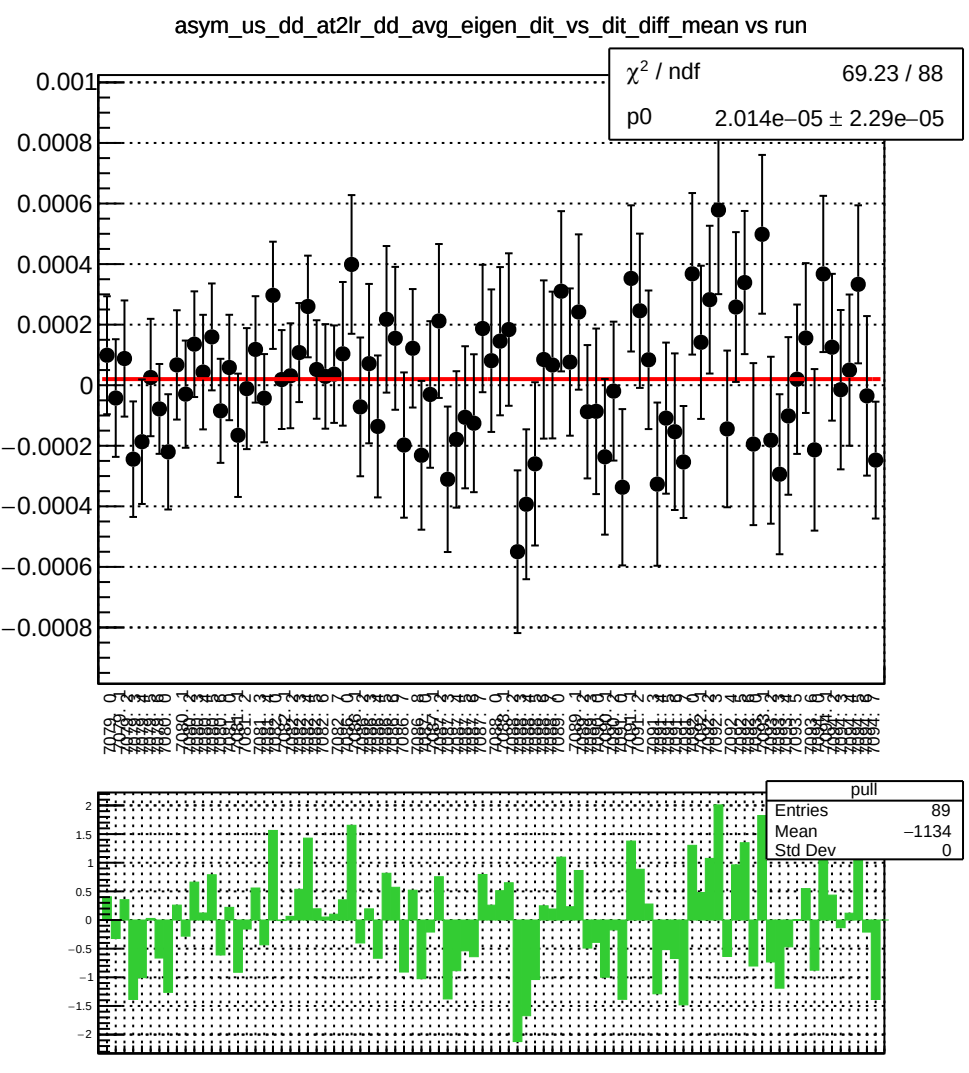

pull1D
Entries 89
Mean −0.00293
Std Dev 0.977

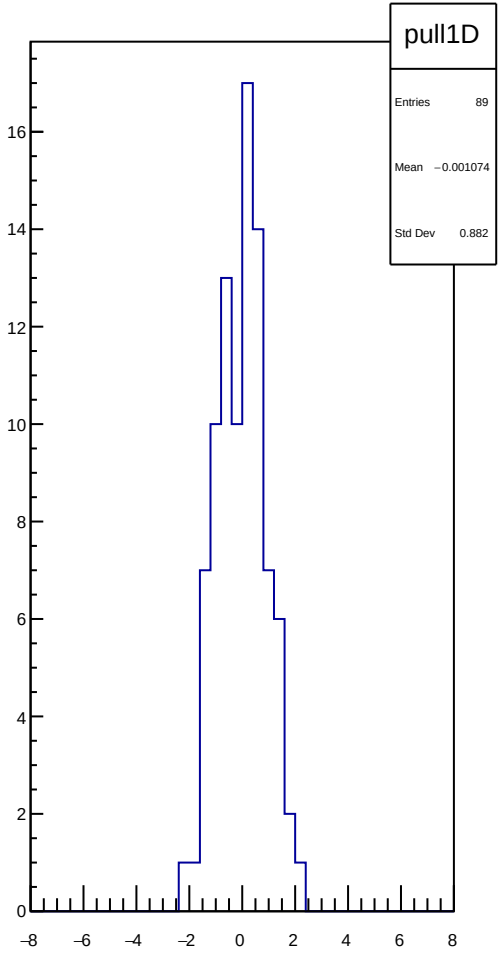

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.453e+05 / 88
p0 81.84 ± 0.06593
160
140
120
100
80
60
40

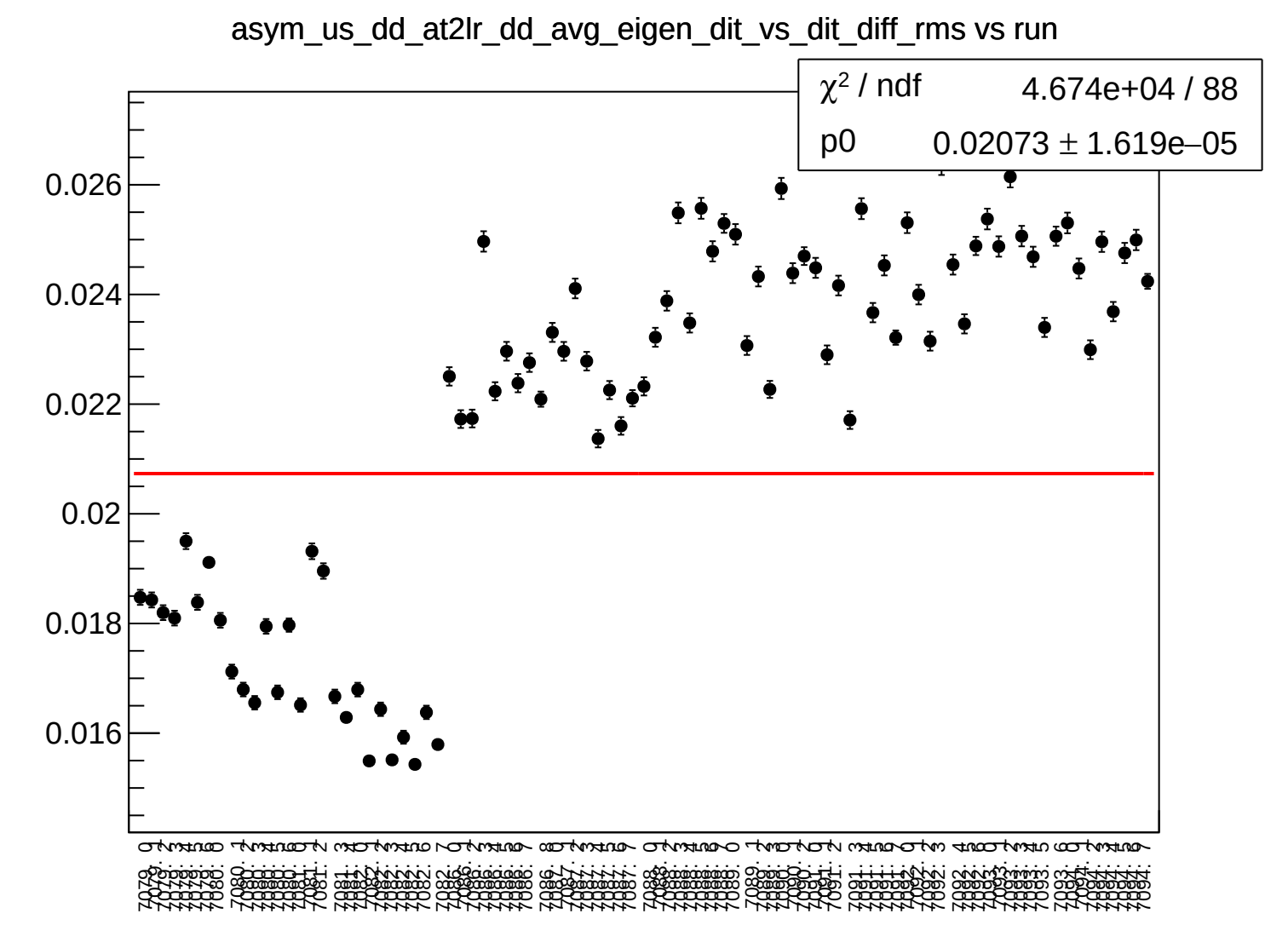

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.96 / 88
p0 −0.1032 ± 0.09324
pull
Entries 89
Mean 356.9
Std Dev 0

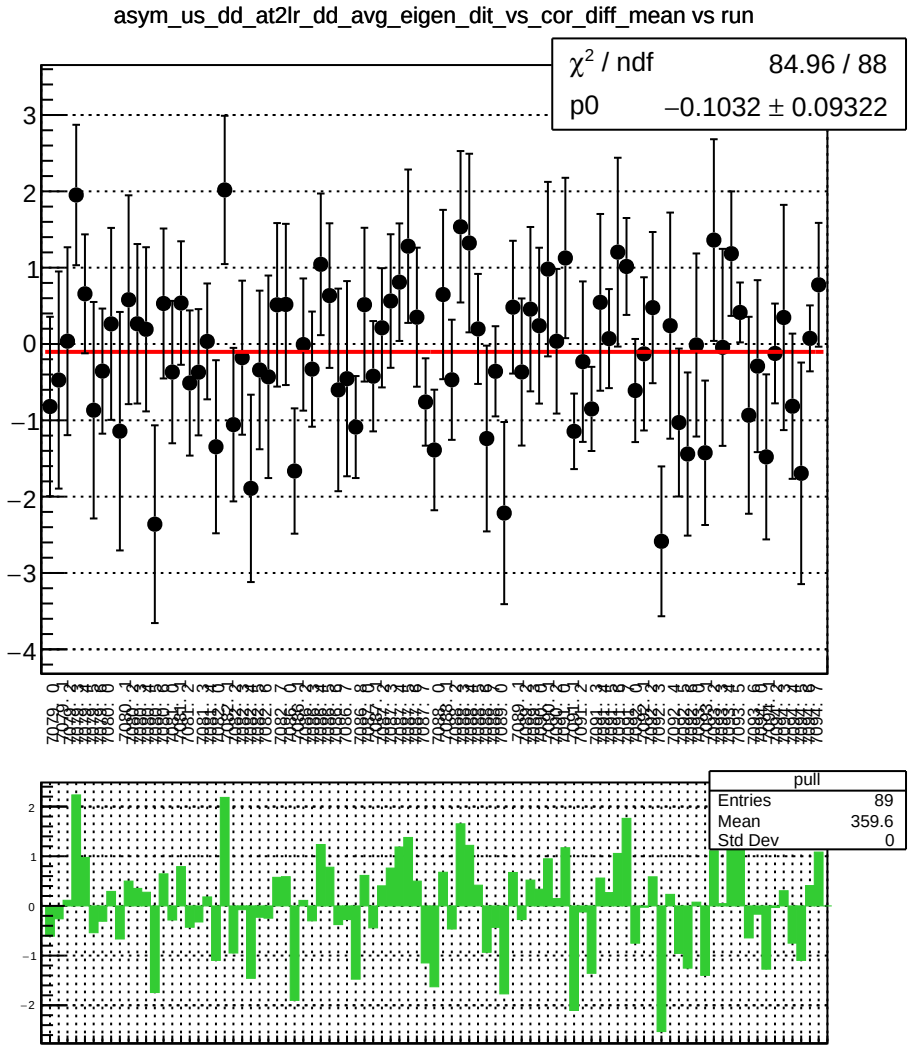

pull1D
Entries 89
Mean −0.00293
Std Dev 0.977

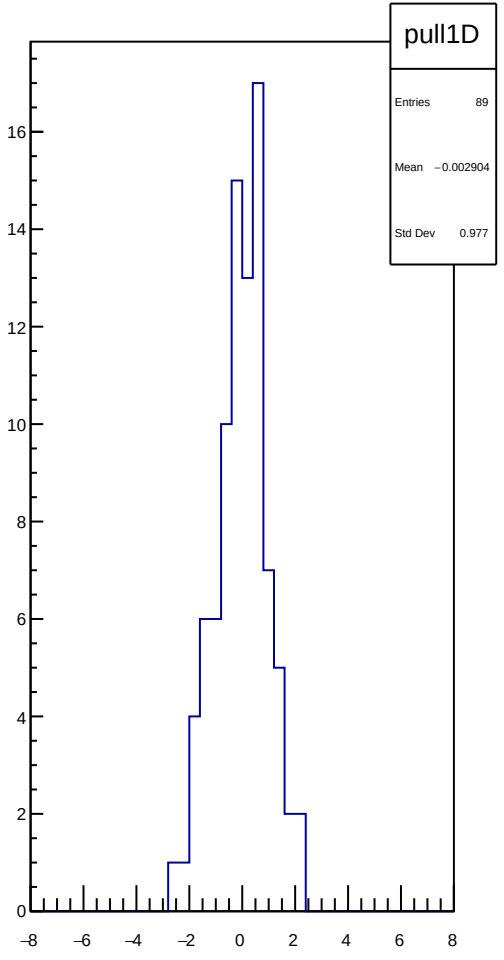

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.453e+05 / 88
p0 81.84 ± 0.06593
160
140
120
100
80
60
40

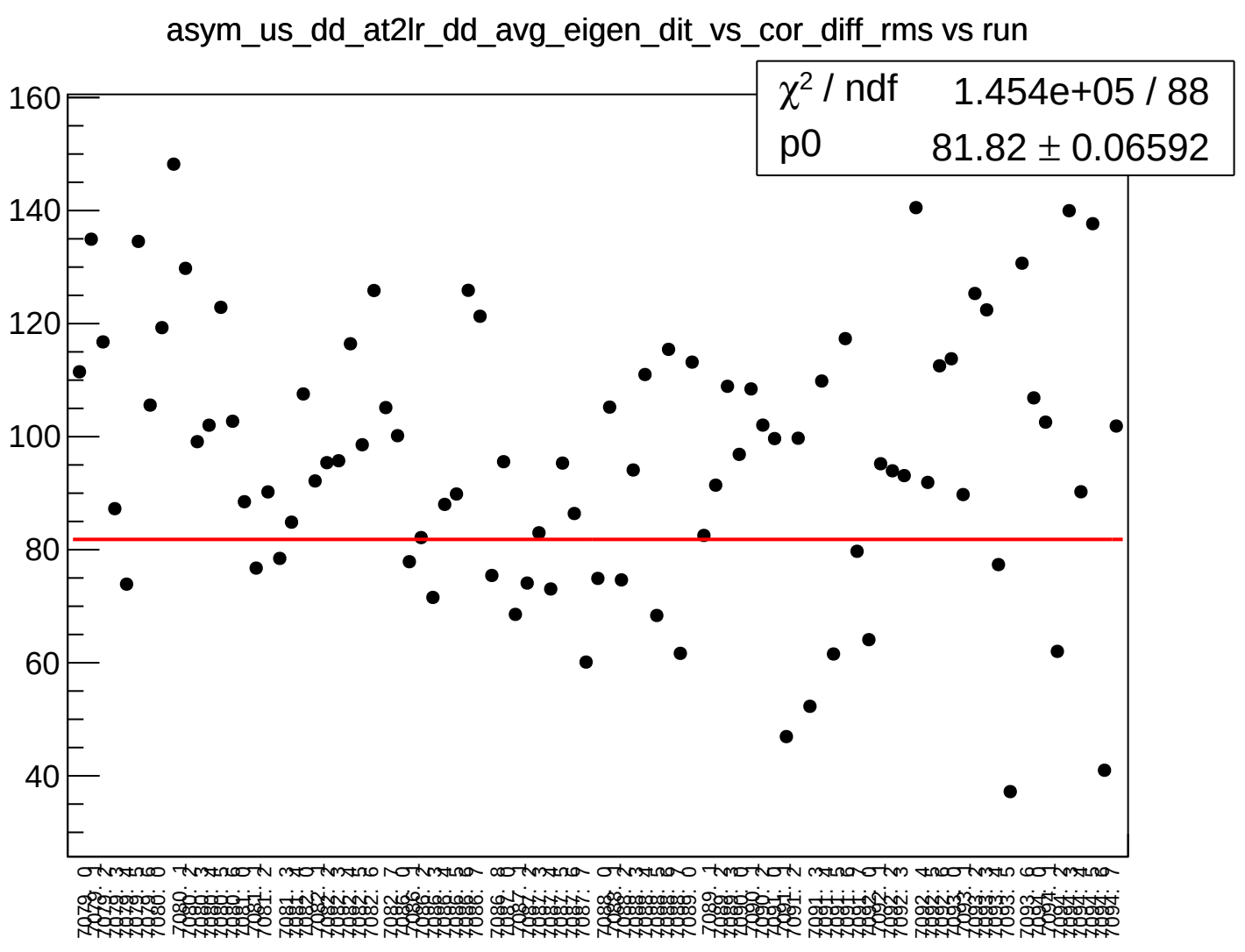

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 69.23 / 88
p0 2.014e−05 ± 2.29e−05
pull
Entries 89
Mean −1134
Std Dev 0

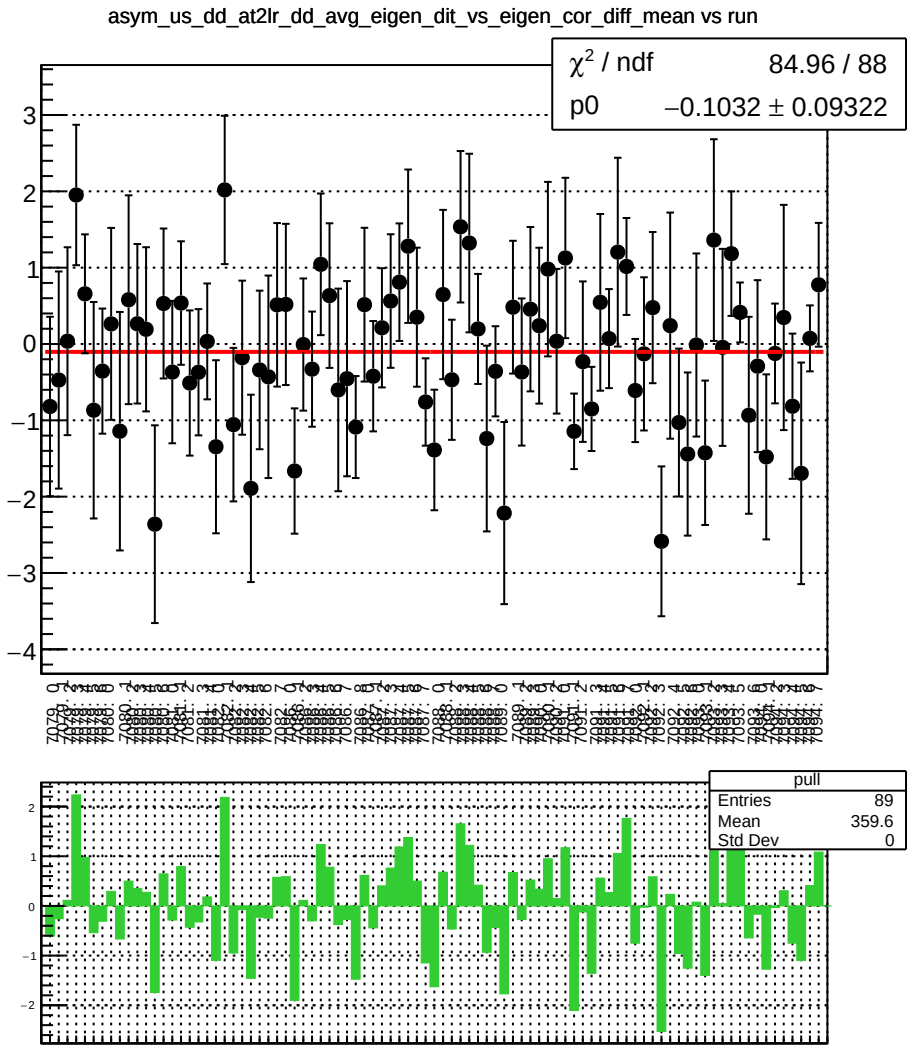

pull1D
Entries 89
Mean −0.001074
Std Dev 0.882

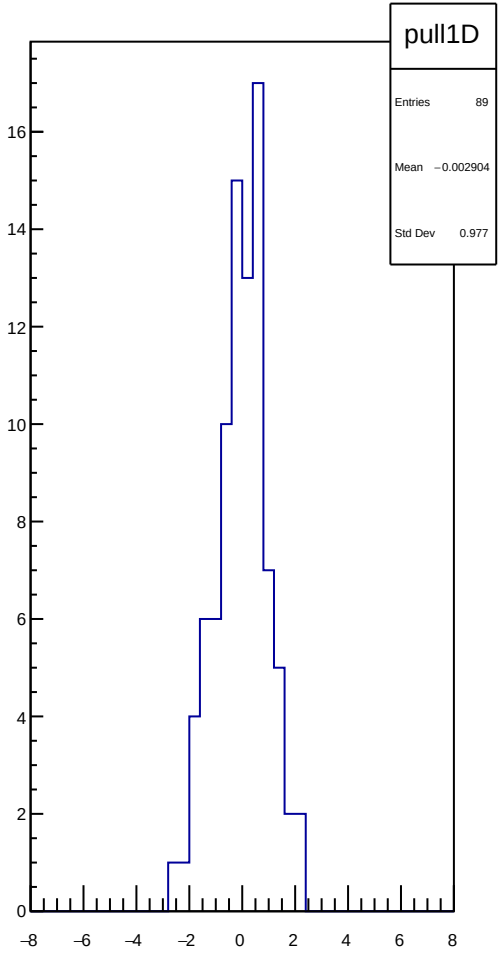

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.674e+04 / 88
p0 0.02073 ± 1.619e−05
0.026
0.024
0.022
0.02
0.018
0.016

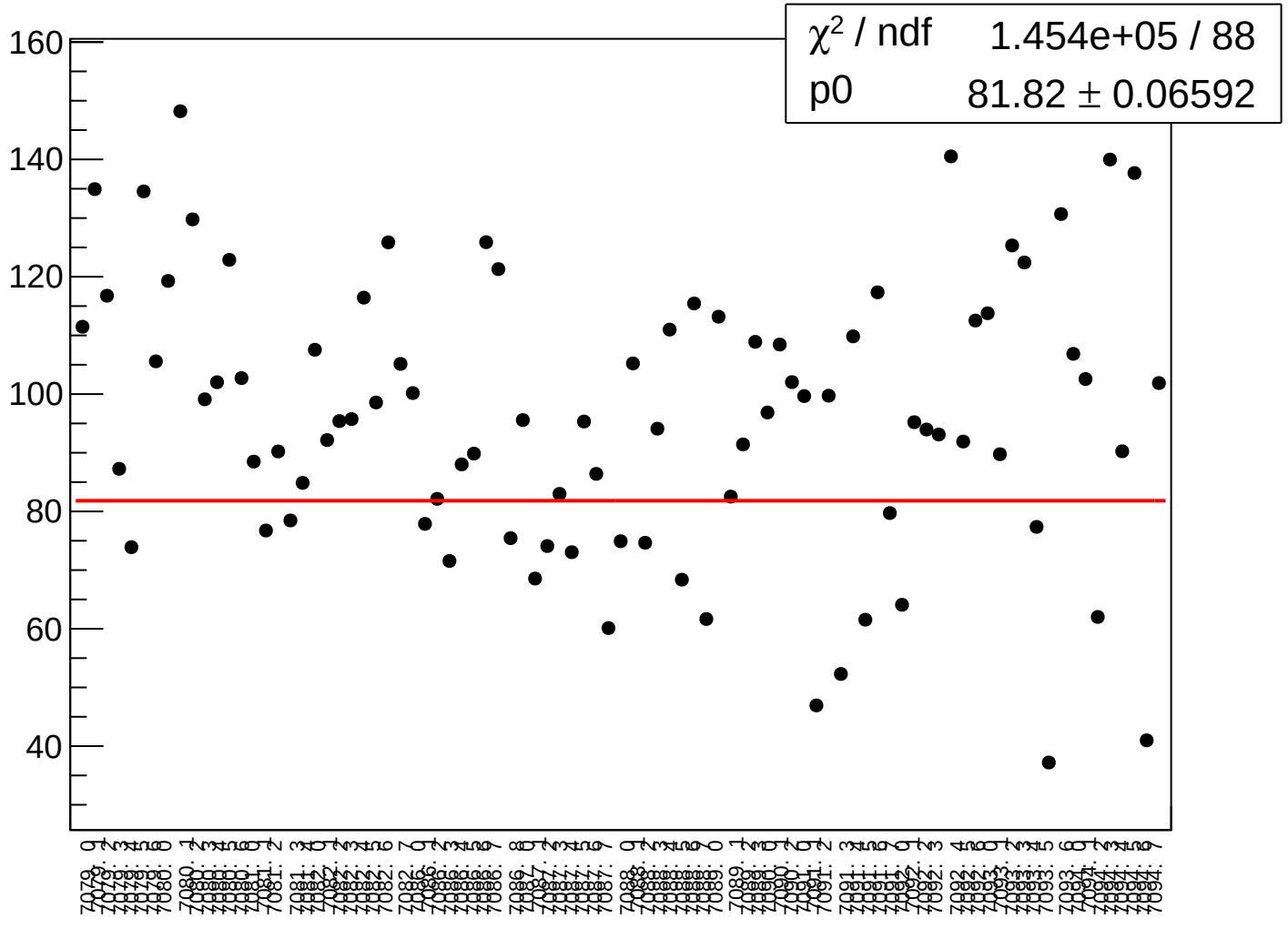

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.96 / 88
p0 −0.1032 ± 0.09322
pull
Entries 89
Mean 359.6
Std Dev 0

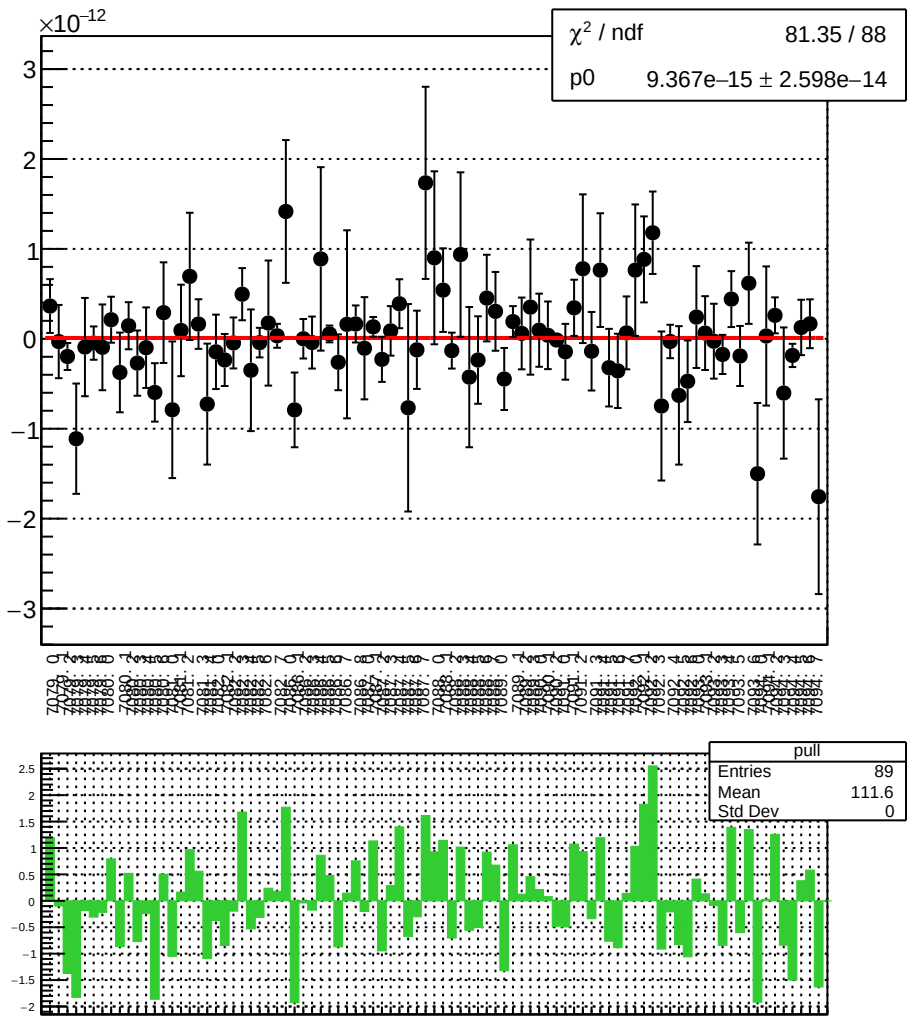

pull1D
Entries 89
Mean −0.002904
Std Dev 0.977

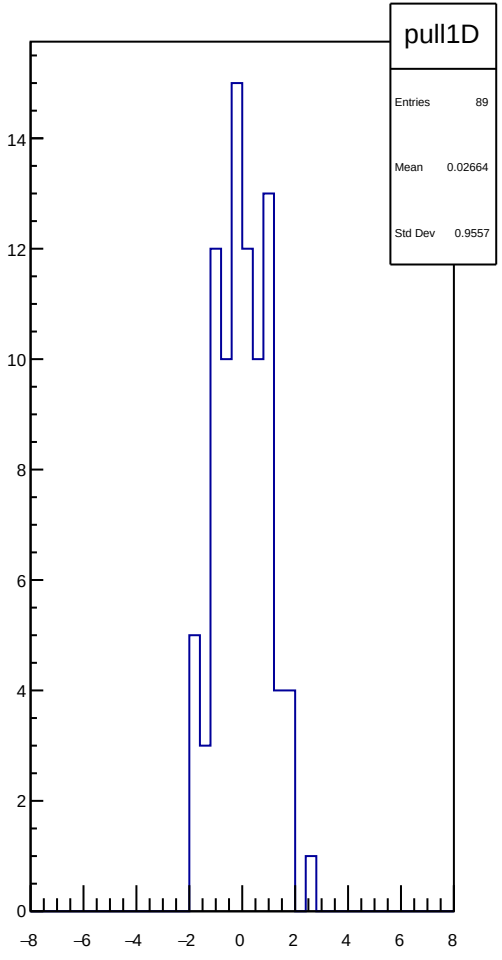

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.454e+05 / 88
p0 81.82 ± 0.06592
160
140
120
100
80
60
40

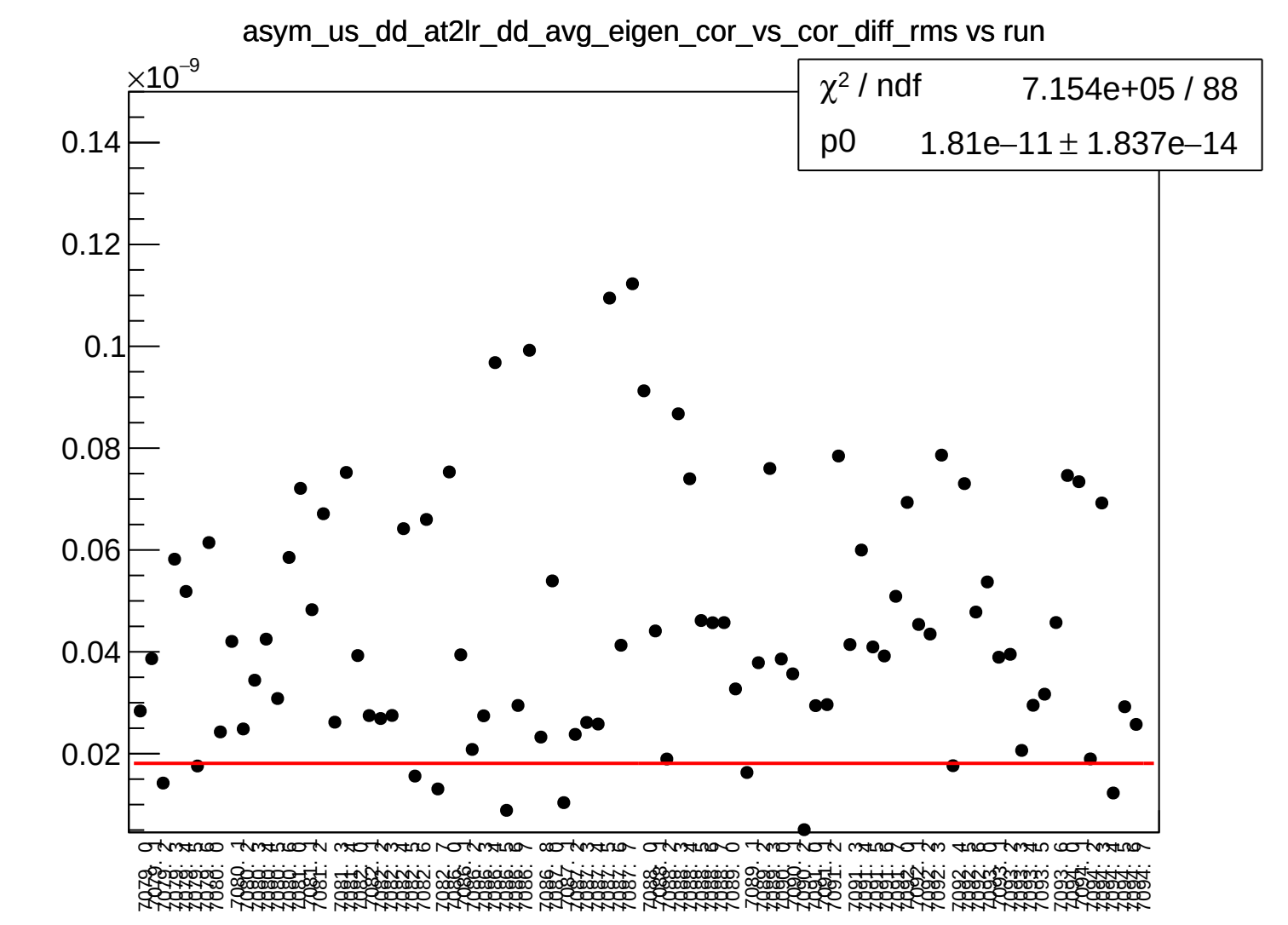

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.96 / 88
p0 −0.1032 ± 0.09322
pull
Entries 89
Mean 359.6
Std Dev 0

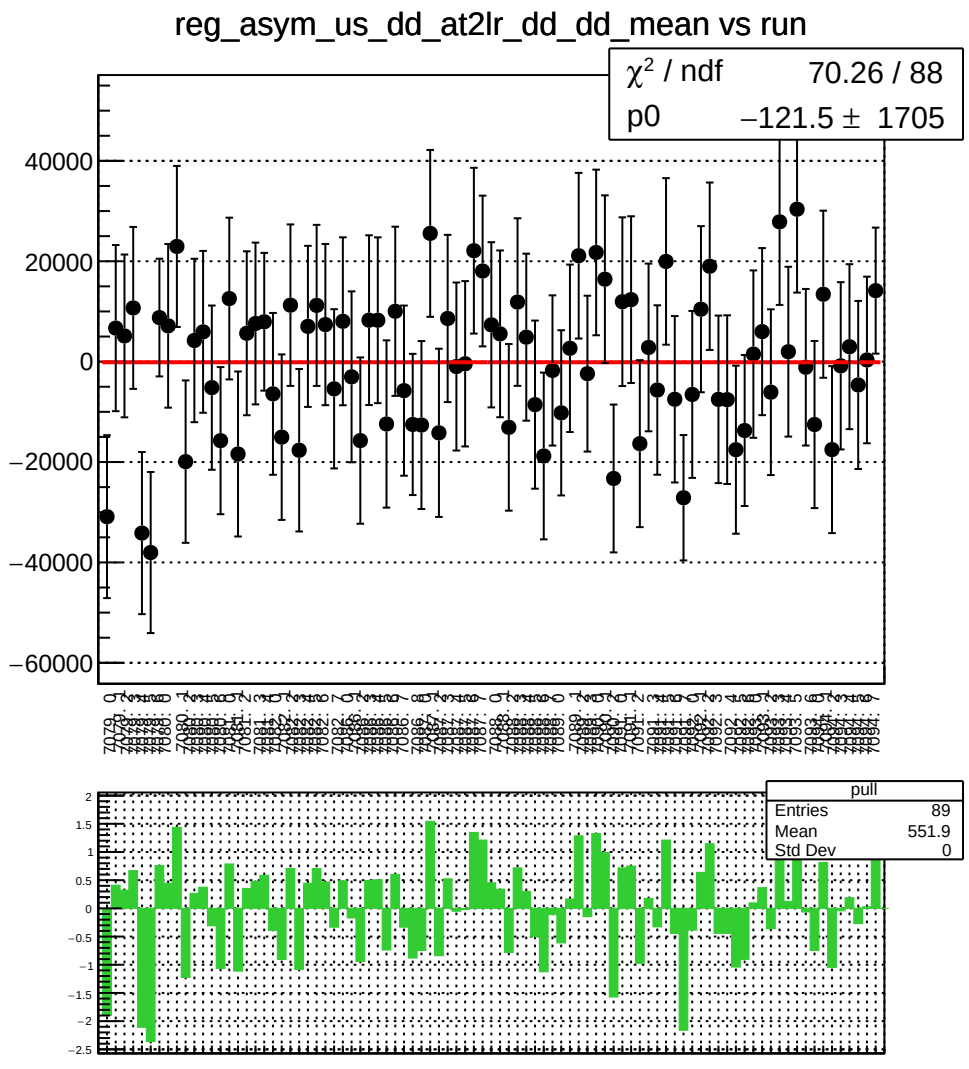

pull1D
Entries 89
Mean −0.002904
Std Dev 0.977

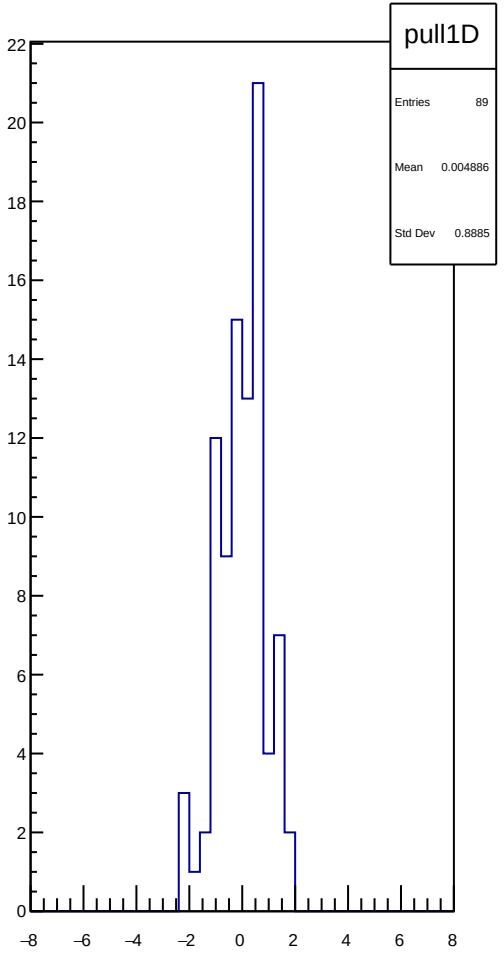

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.454e+05 / 88
p0 81.82 ± 0.06592
160
140
120
100
80
60
40

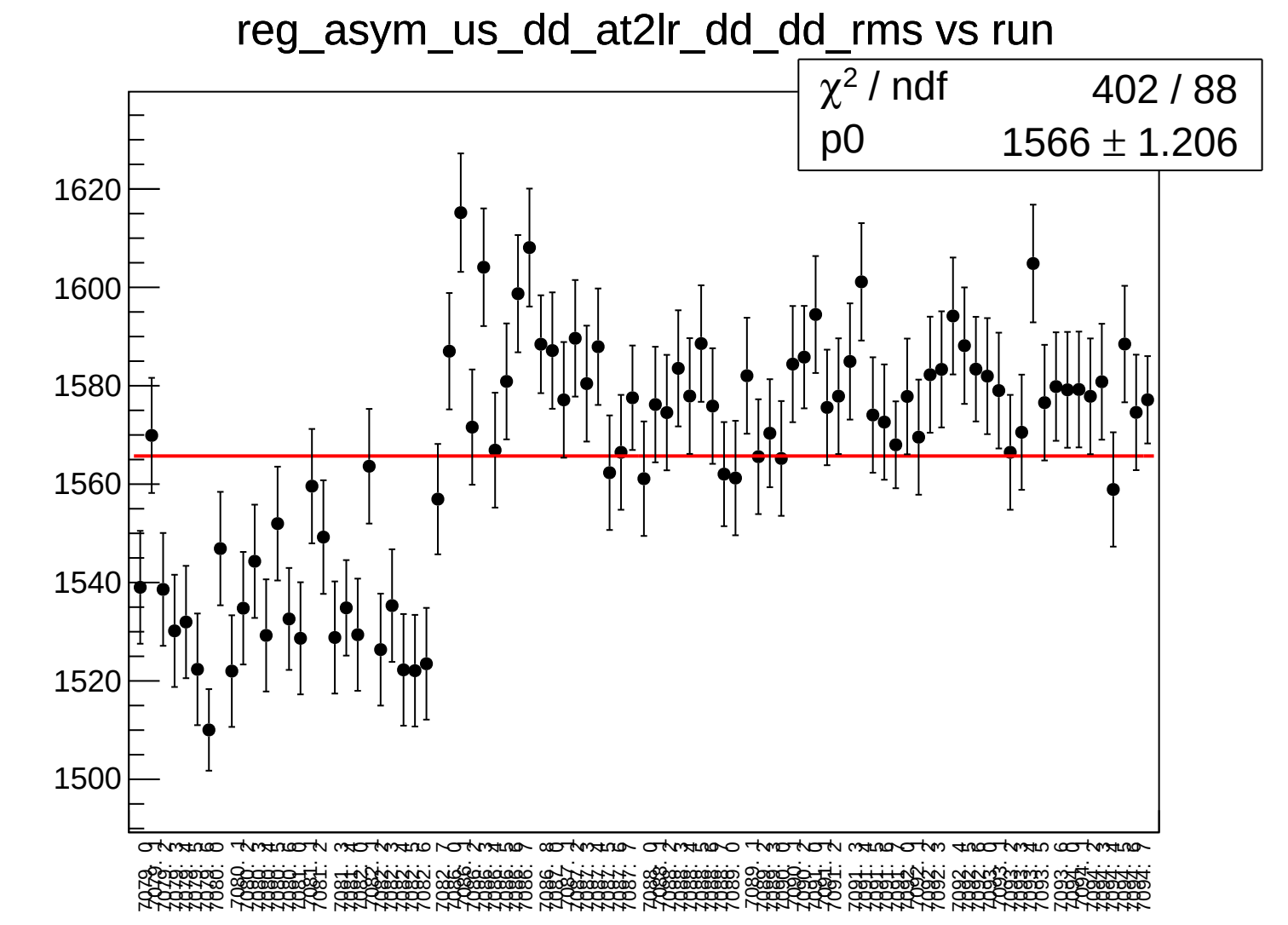

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.35 / 88
p0 9.367e−15 ± 2.598e−14
pull
Entries 89
Mean 111.6
Std Dev 0

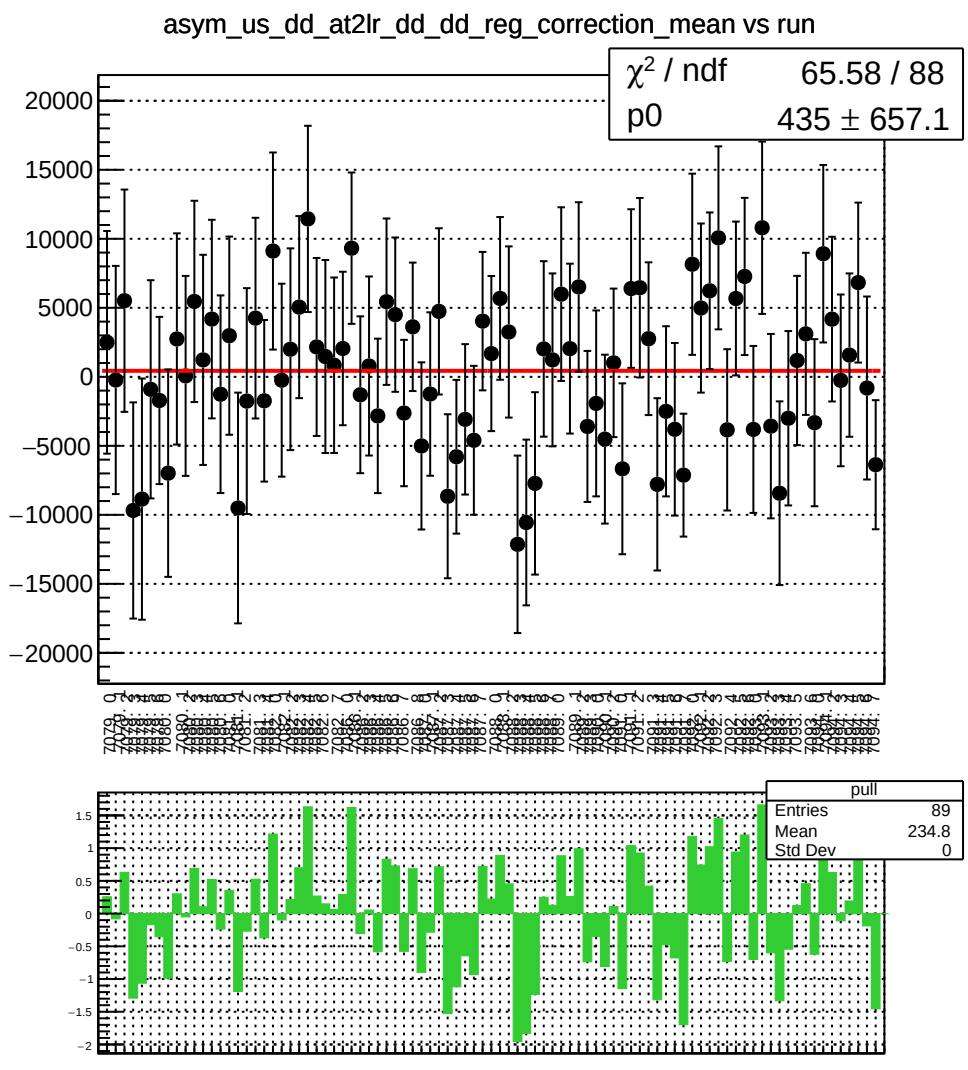

pull1D
Entries 89
Mean 0.02664
Std Dev 0.9557

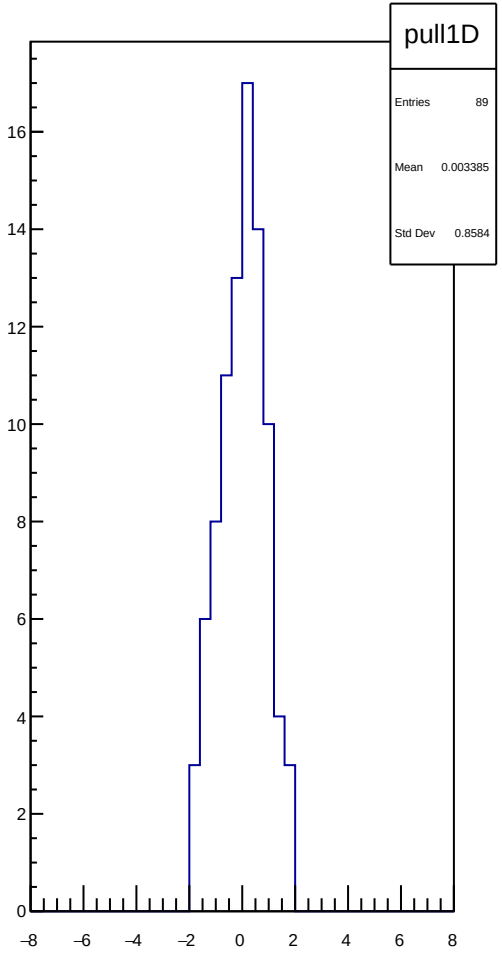

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.154e+05 / 88
p0 1.81e−11 ± 1.837e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

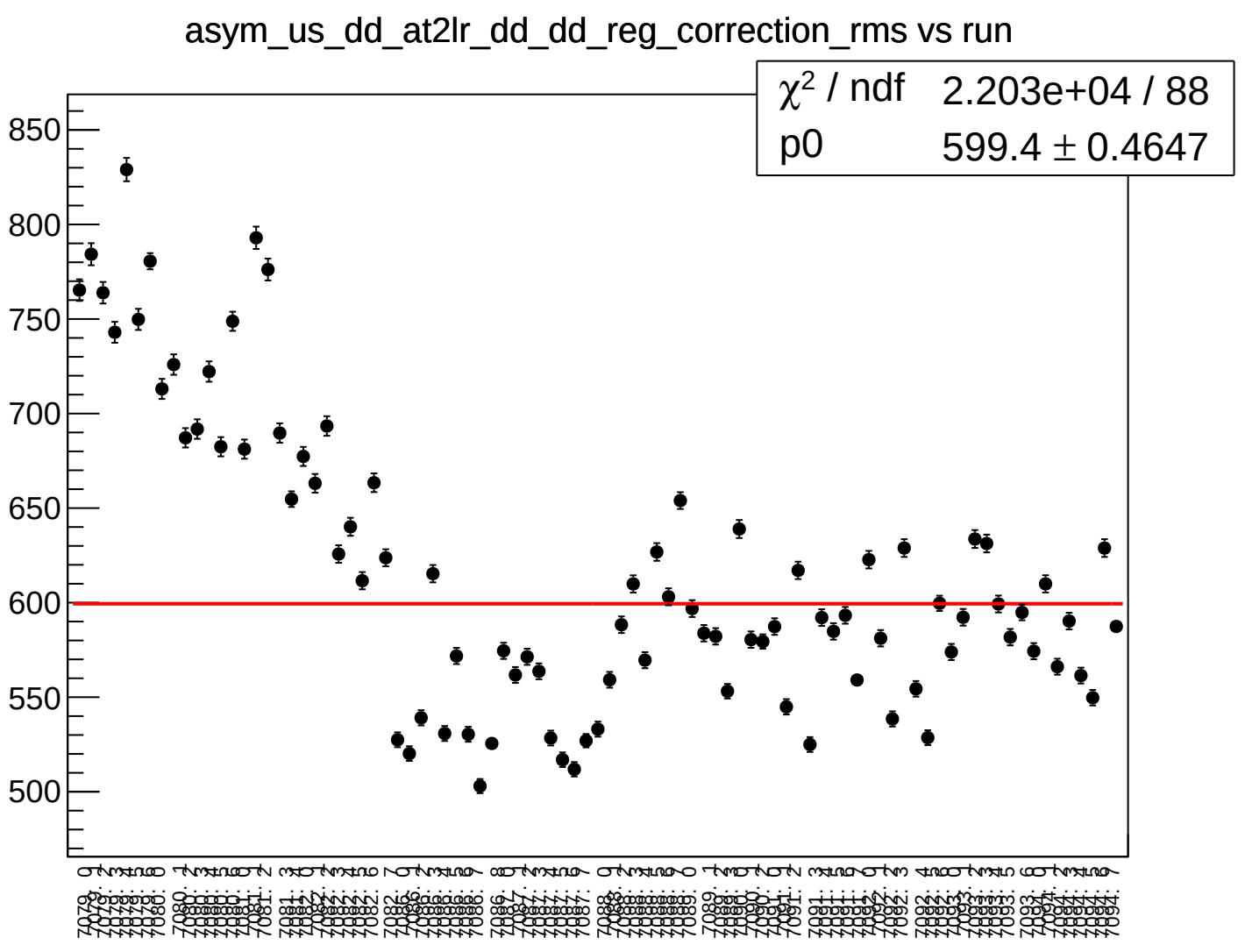

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 70.26 / 88
p0 −121.5 ± 1705
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 551.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

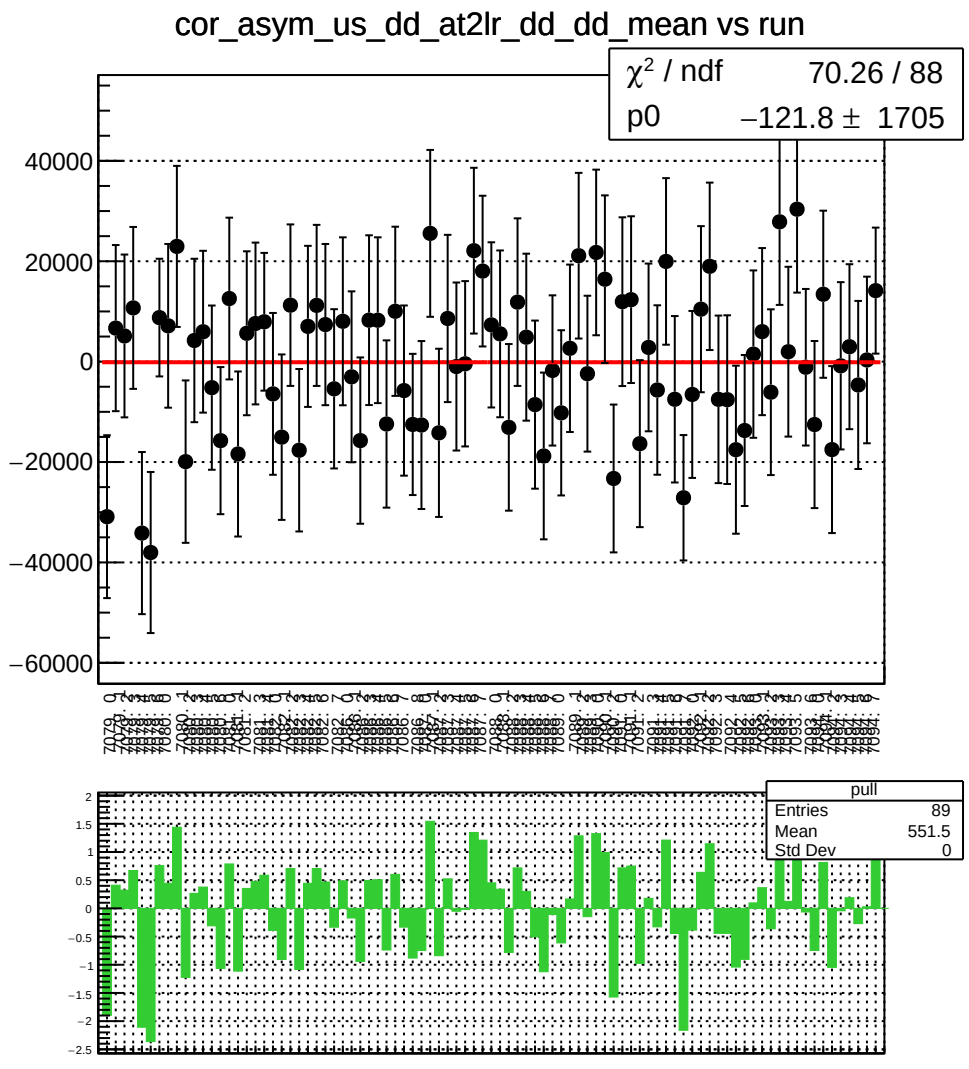

pull1D
Entries 89
Mean 0.004886
Std Dev 0.8885
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

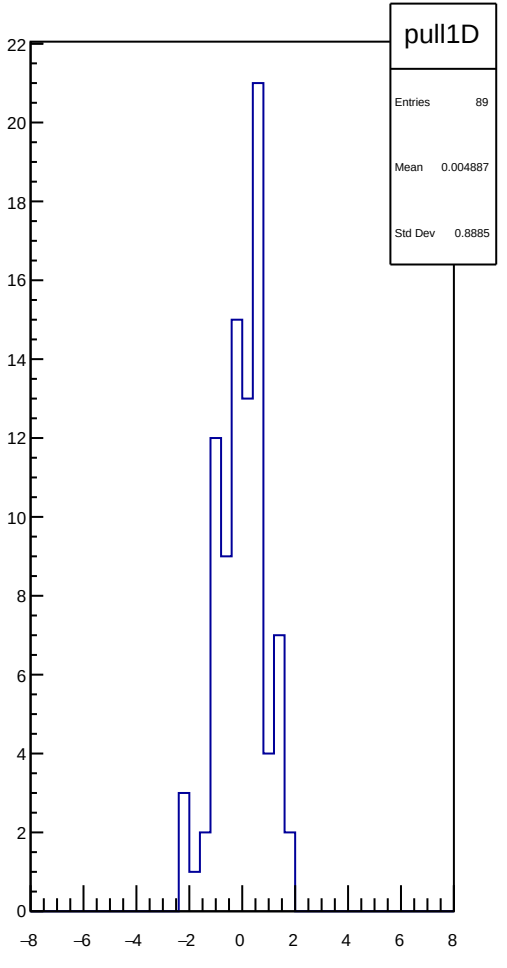

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 402 / 88
p0 1566 ± 1.206
1620
1600
1580
1560
1540
1520
1500

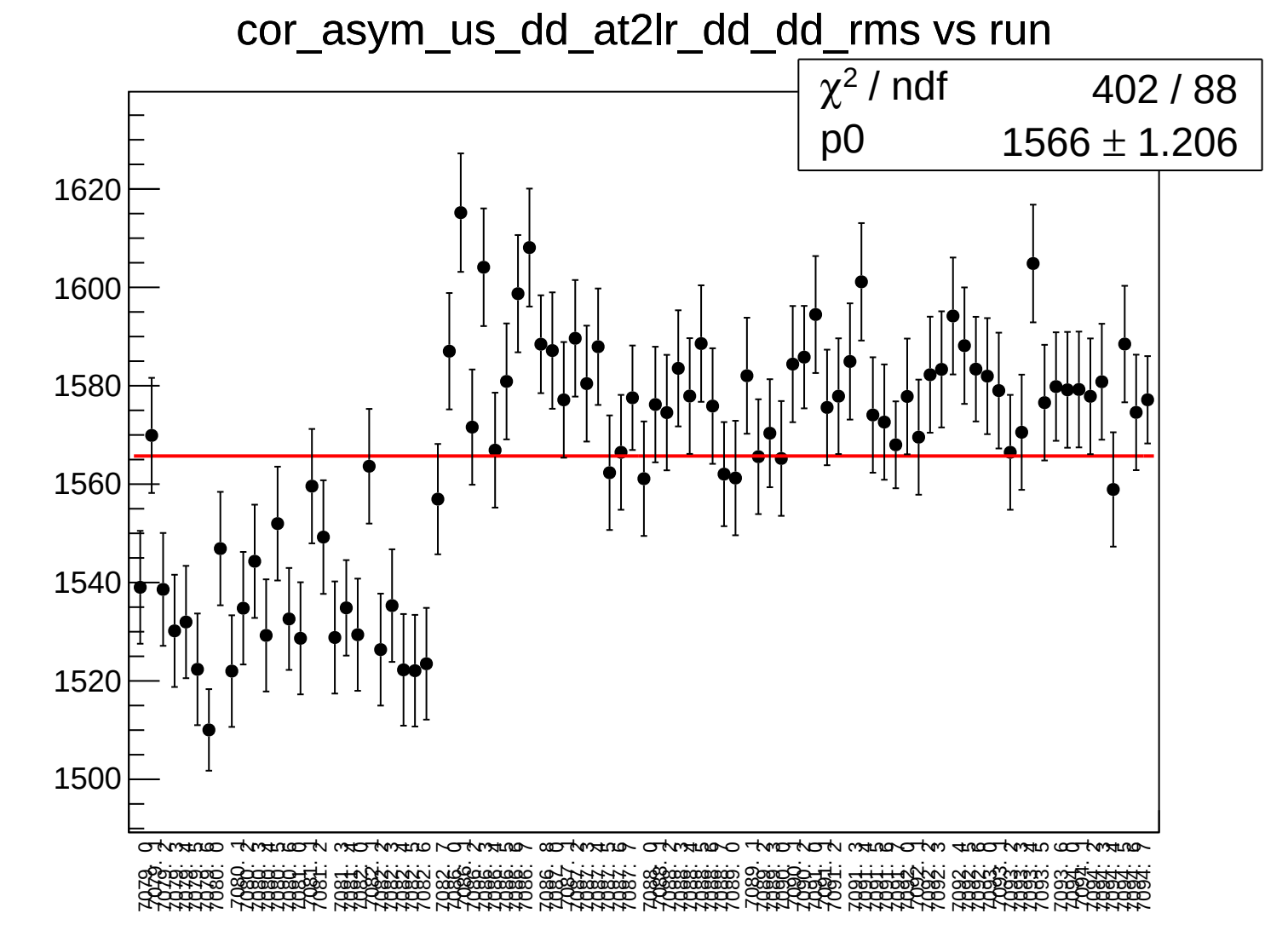

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 65.58 / 88
p0 435 ± 657.1
pull
Entries 89
Mean 234.8
Std Dev 0

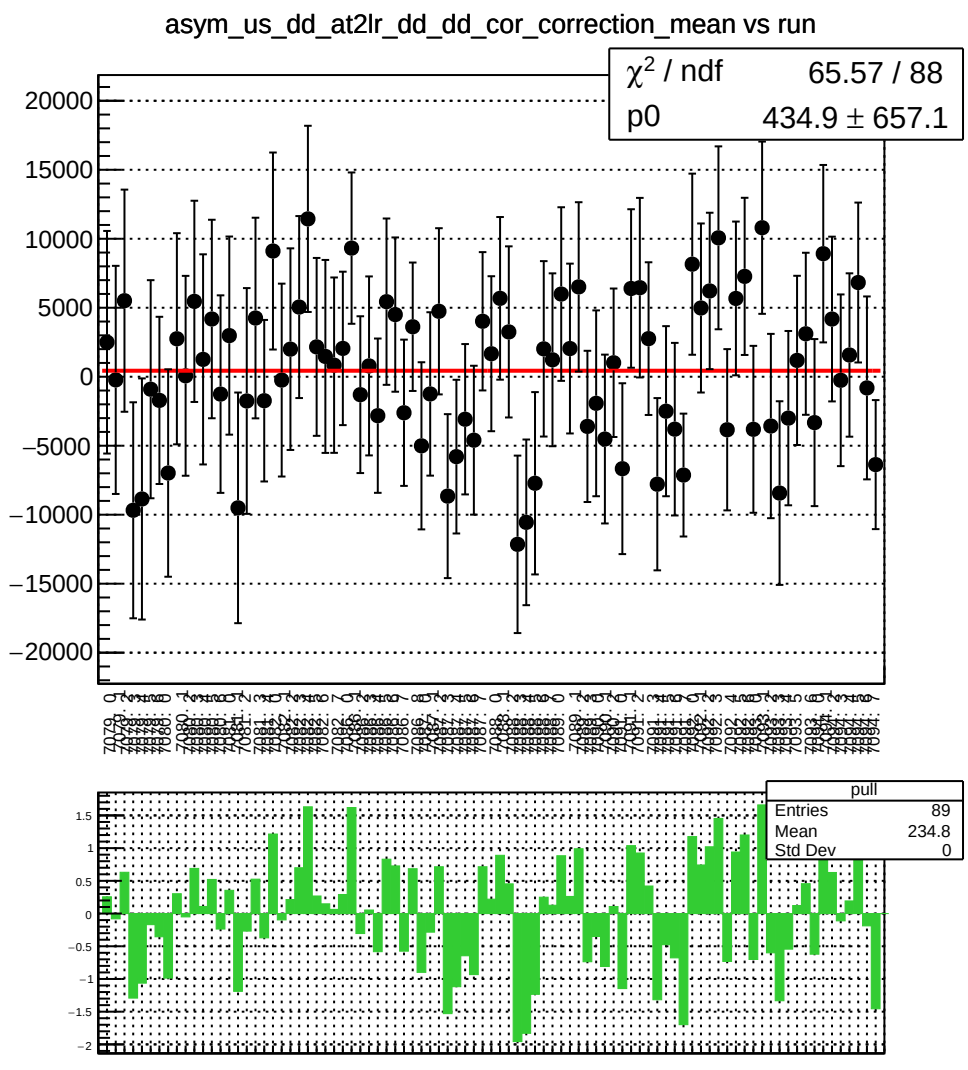

pull1D
Entries 89
Mean 0.003385
Std Dev 0.8584

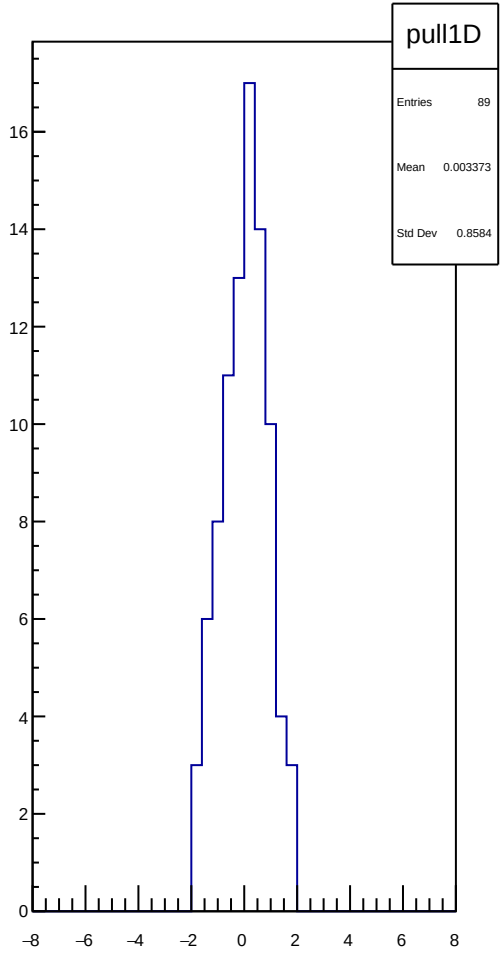

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.203e+04 / 88
p0 599.4 ± 0.4647
850
800
750
700
650
600
550
500

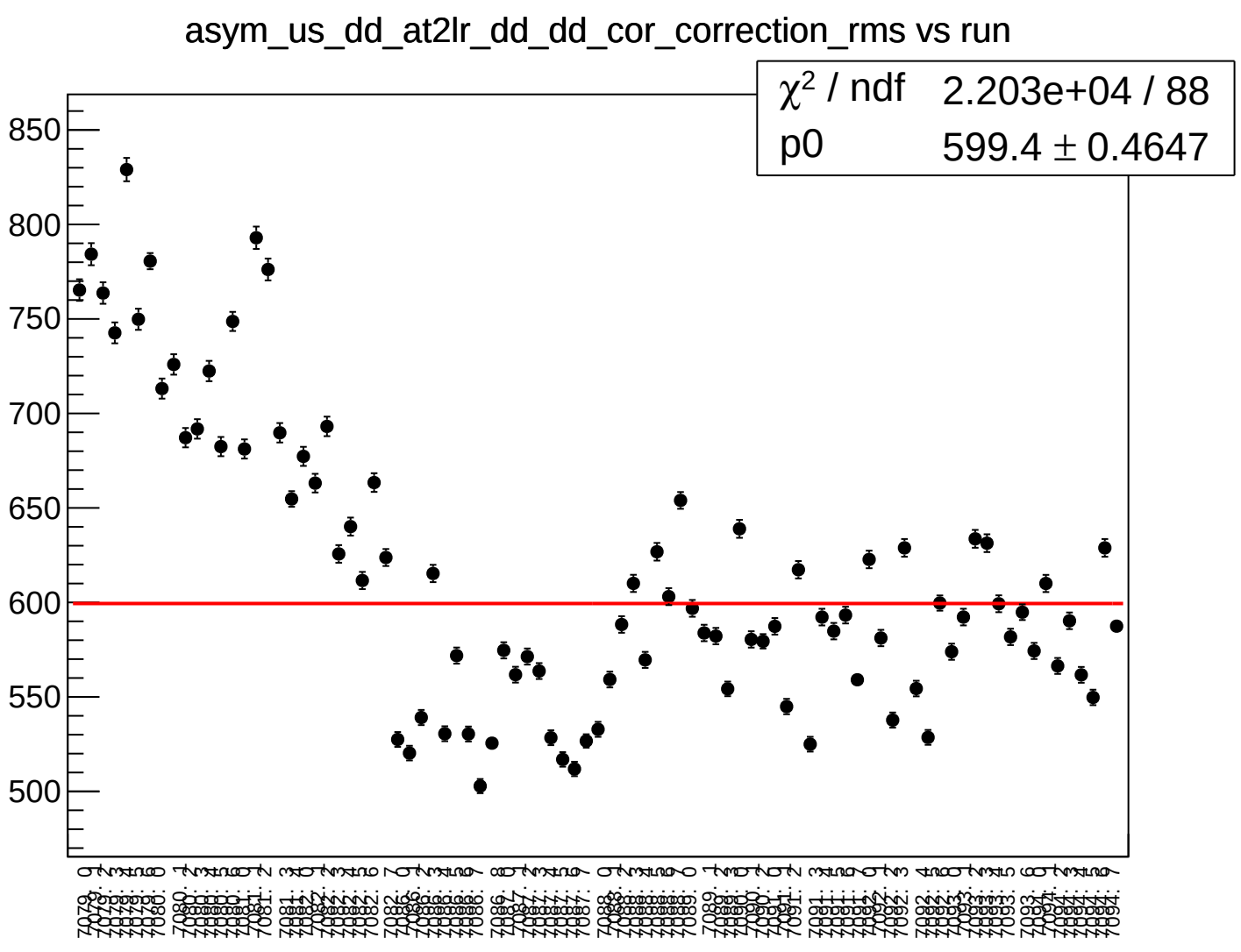

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 70.26 / 88
p0 −121.8 ± 1705
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 551.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

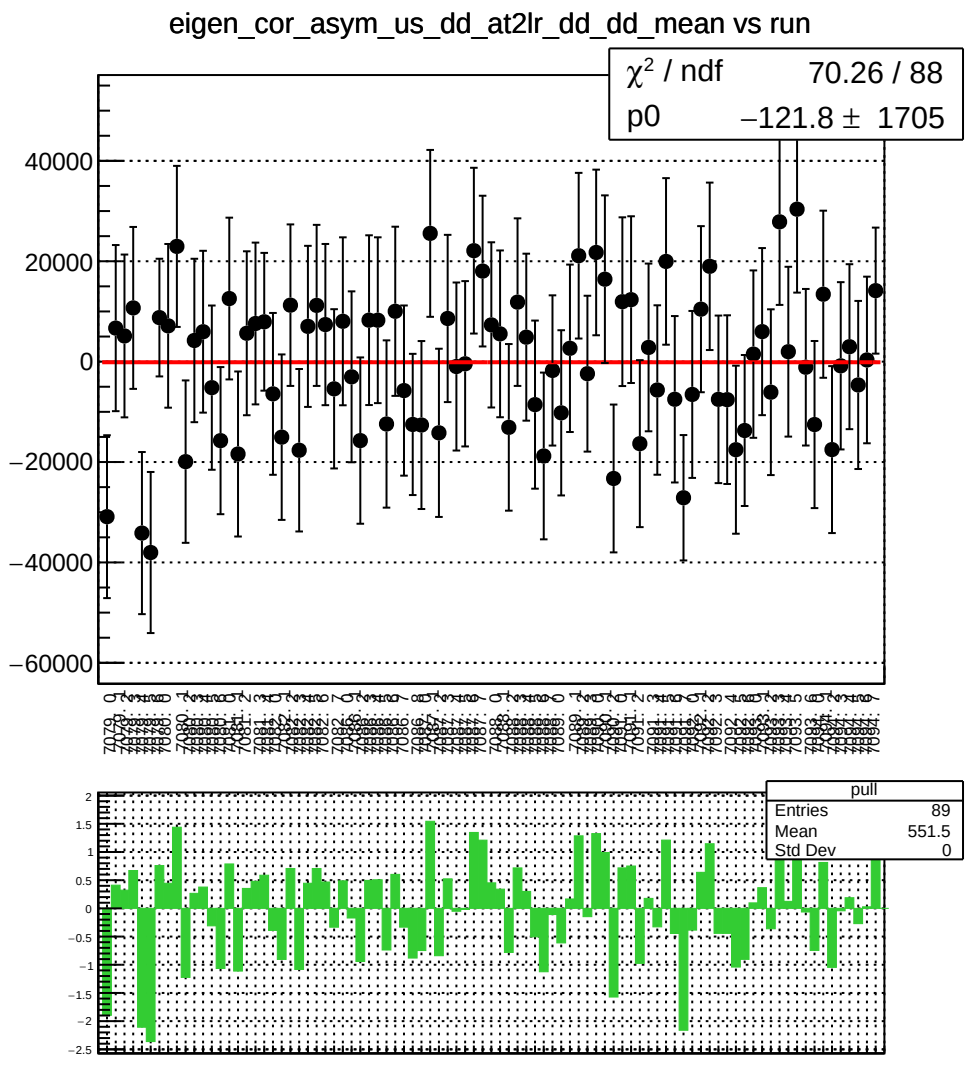

pull1D
Entries 89
Mean 0.004887
Std Dev 0.8885
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

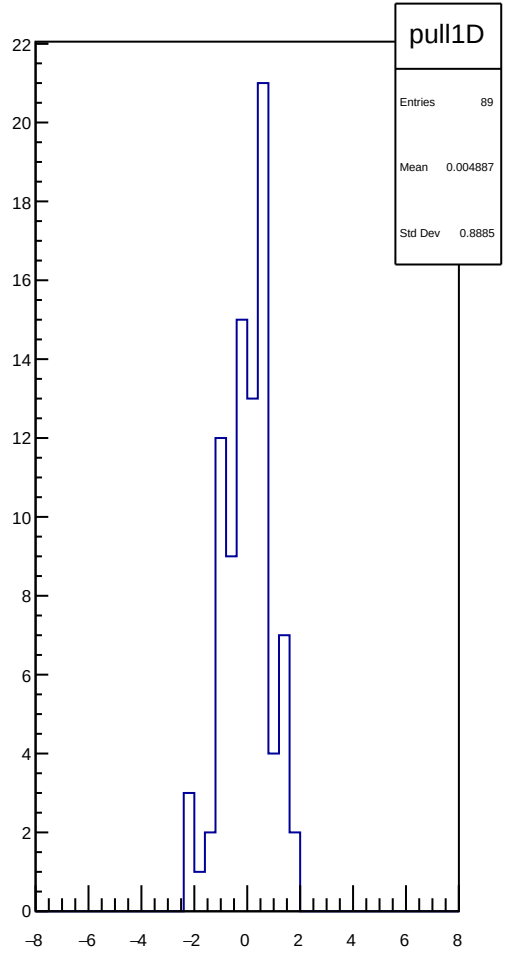

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 402 / 88
p0 1566 ± 1.206
1620
1600
1580
1560
1540
1520
1500

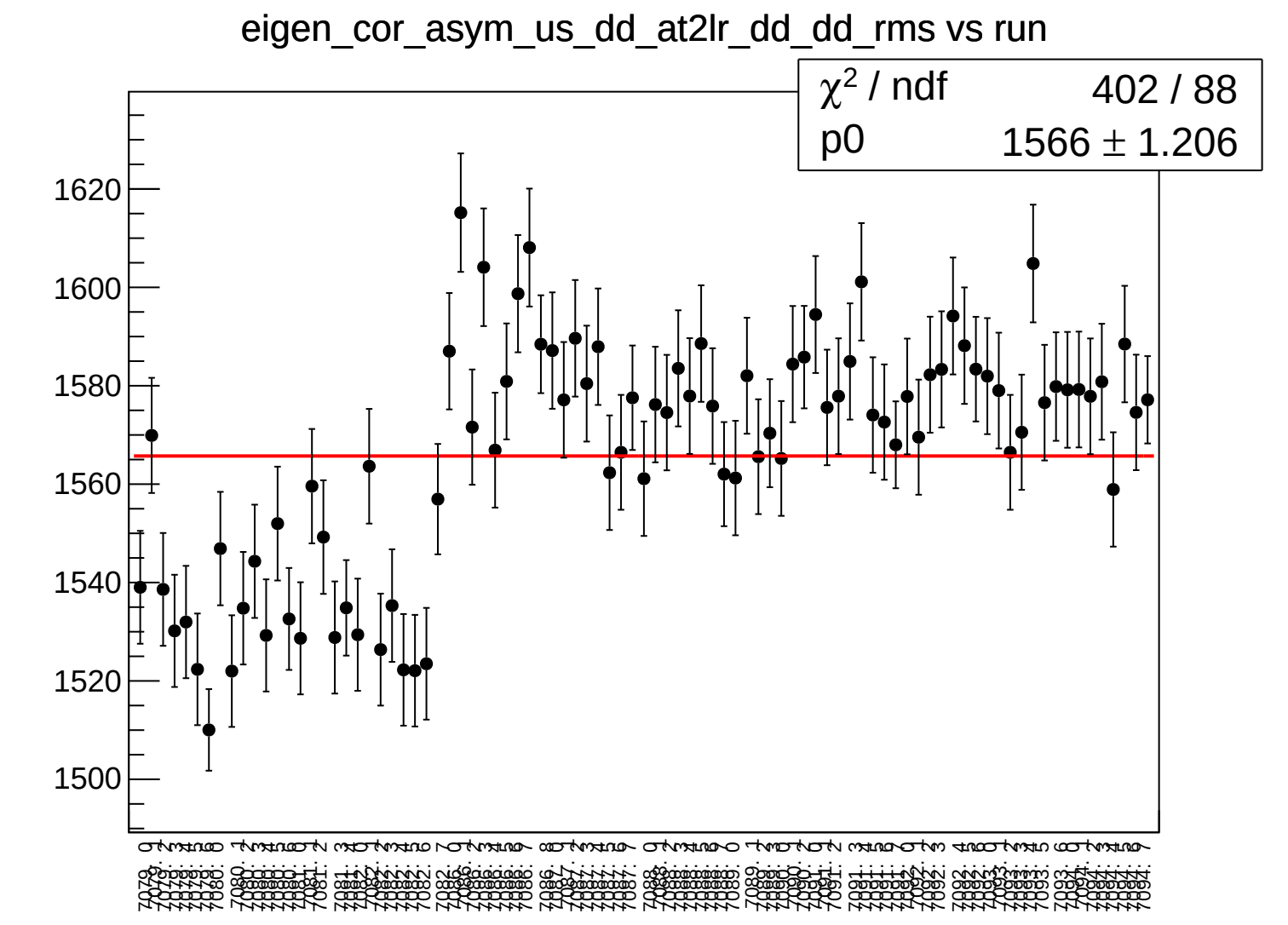

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 65.57 / 88
p0 434.9 ± 657.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 234.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

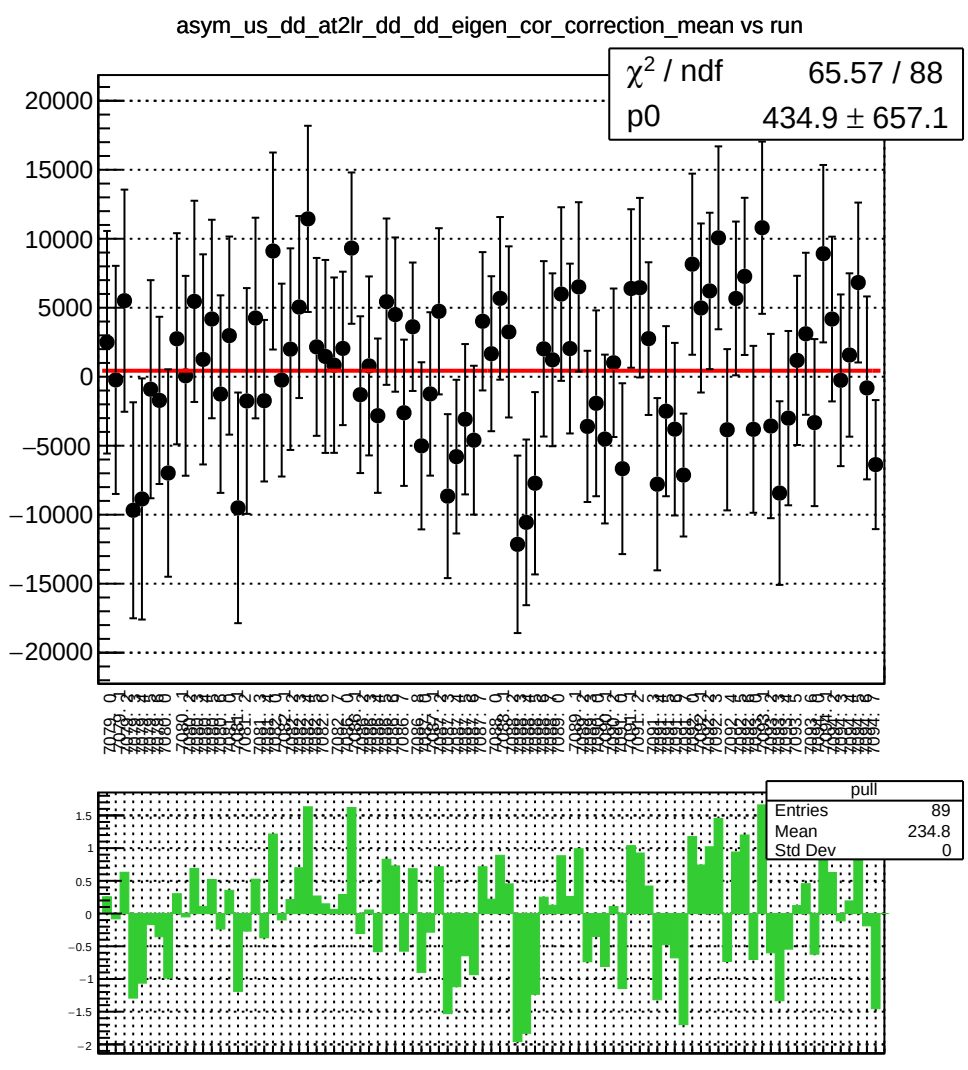

pull1D
Entries 89
Mean 0.003373
Std Dev 0.8584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

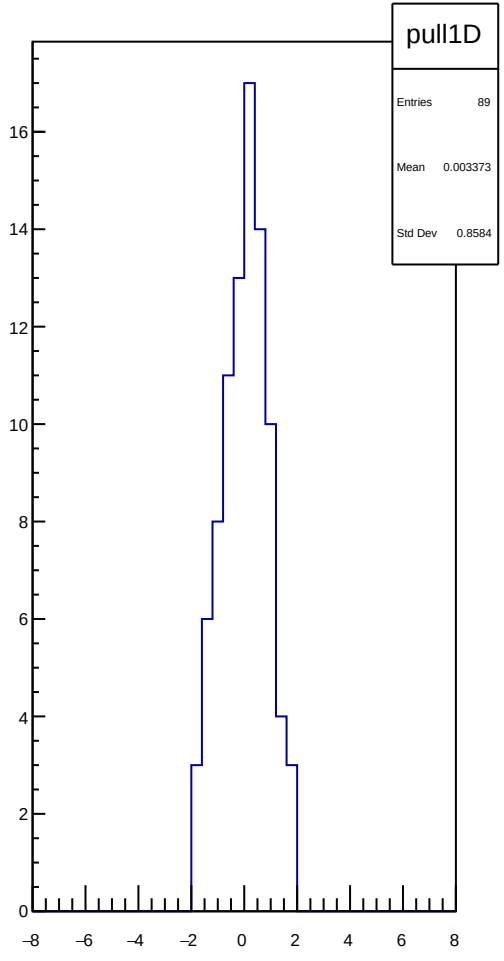

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.203e+04 / 88
p0 599.4 ± 0.4647
850
800
750
700
650
600
550
500

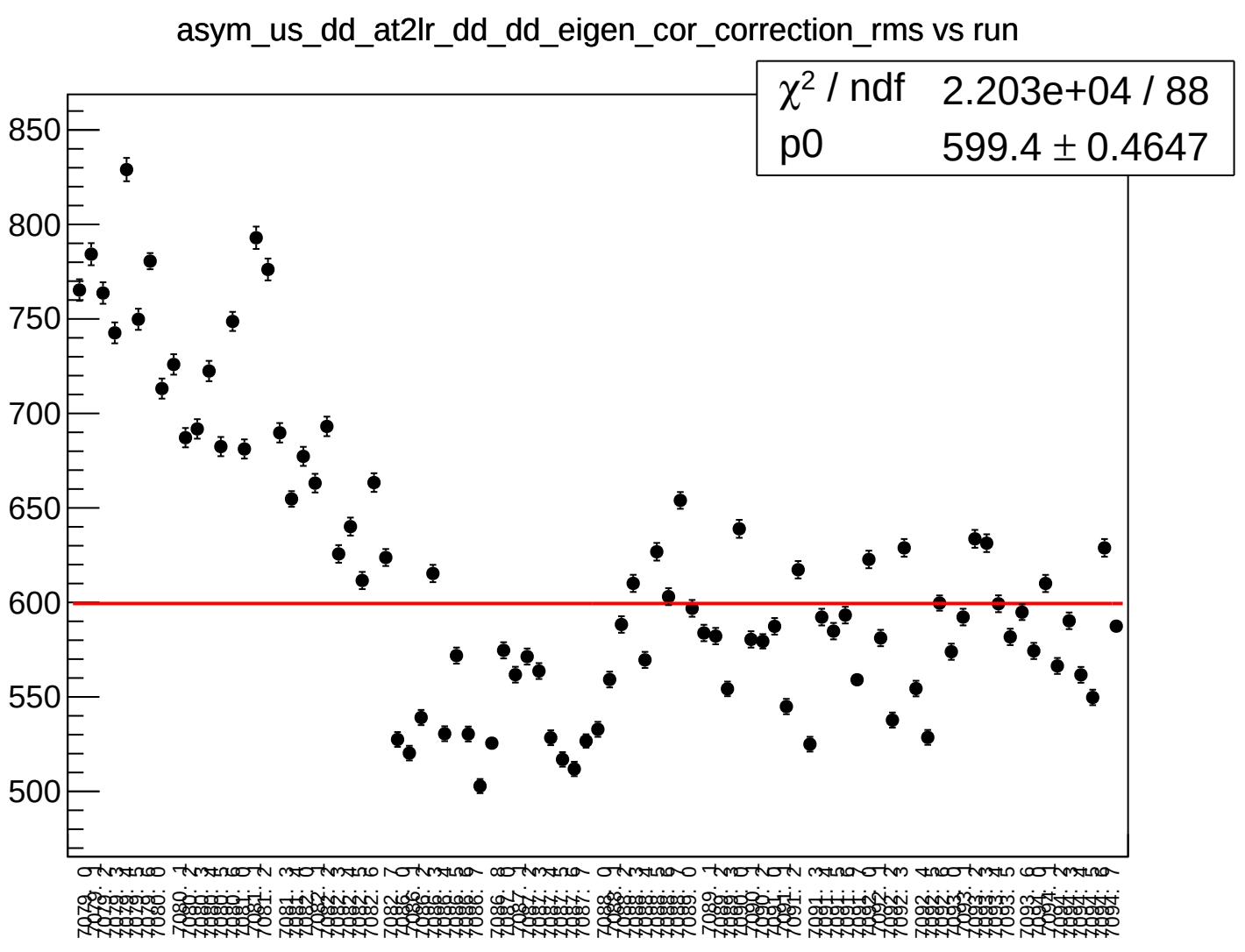

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 70.26 / 88
p0 −121.8 ± 1705
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 551.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

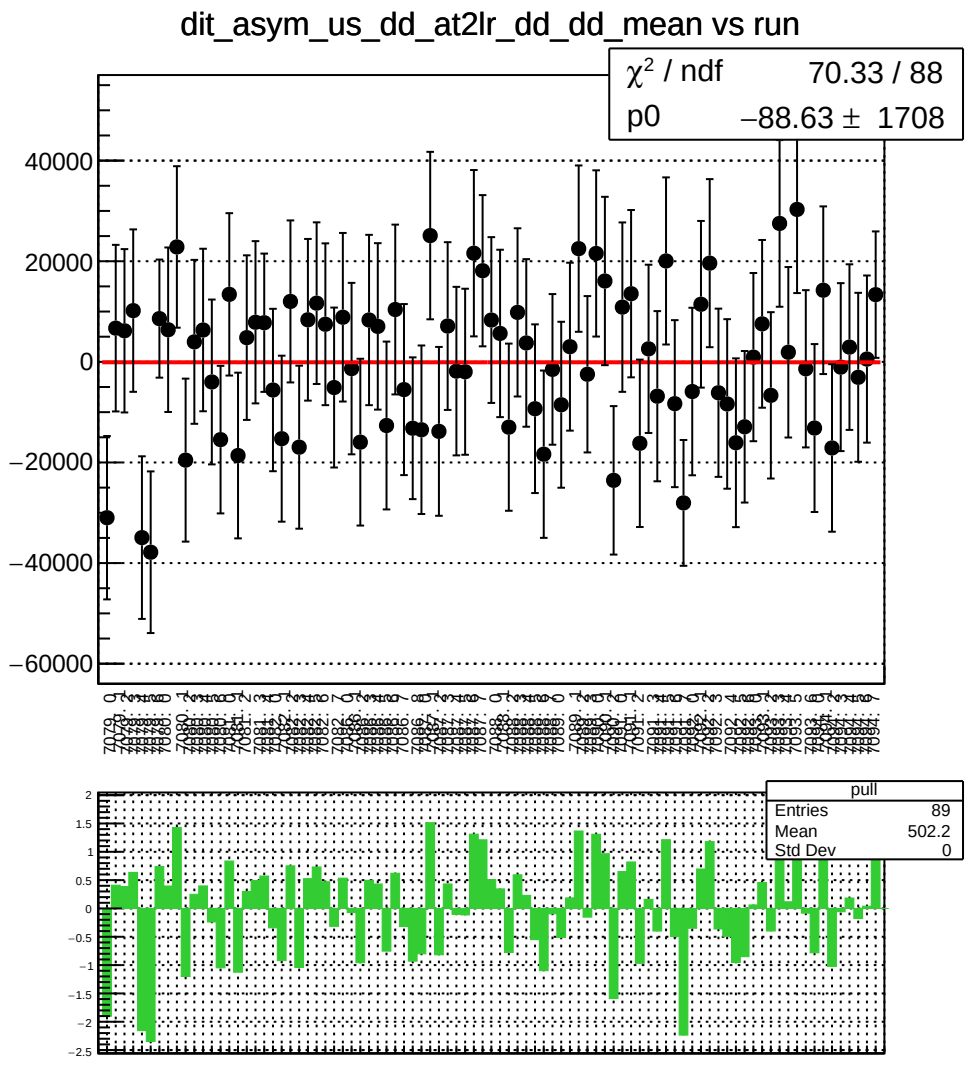

pull1D
Entries 89
Mean 0.004887
Std Dev 0.8885
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

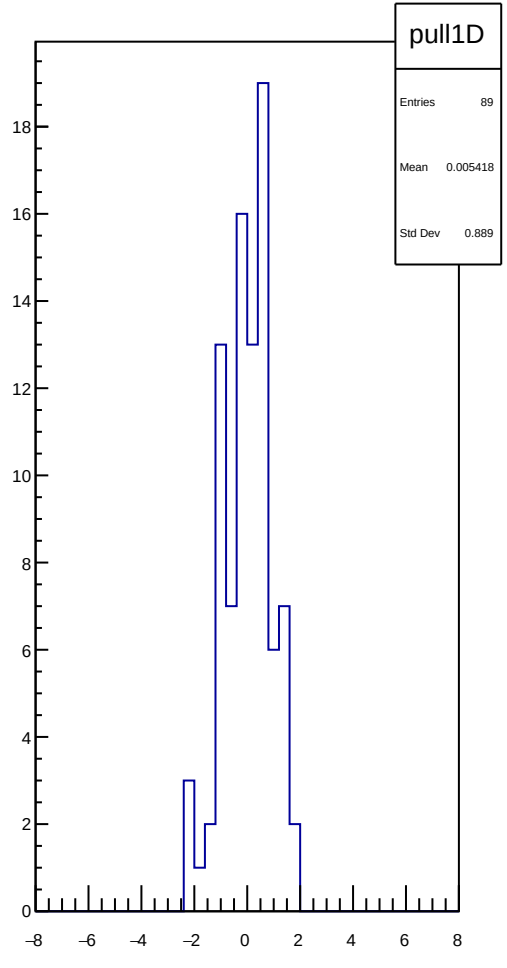

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 402 / 88
p0 1566 ± 1.206
1620
1600
1580
1560
1540
1520
1500

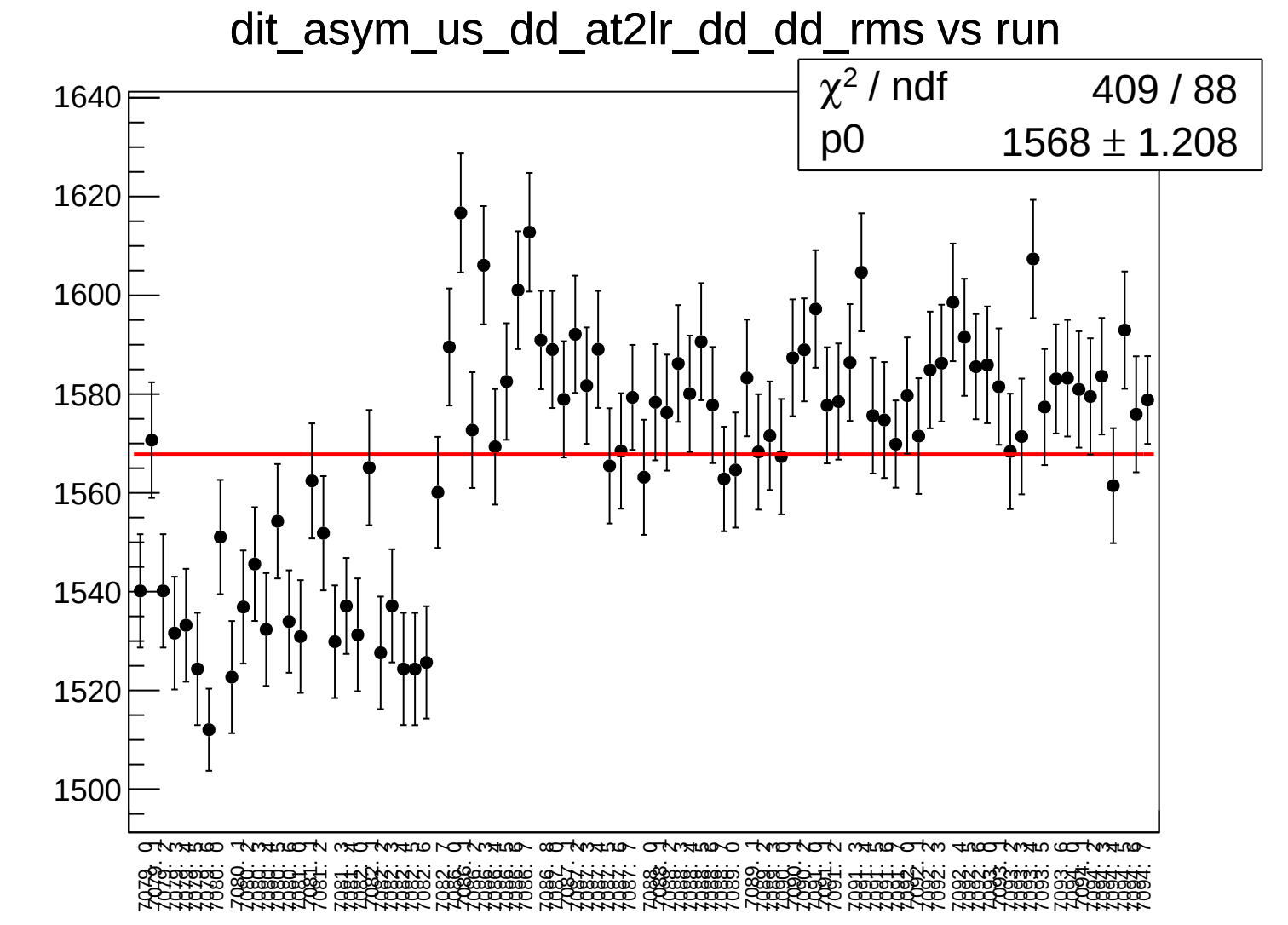

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.57 / 88
p0 434.9 ± 657.1
pull
Entries 89
Mean 234.8
Std Dev 0

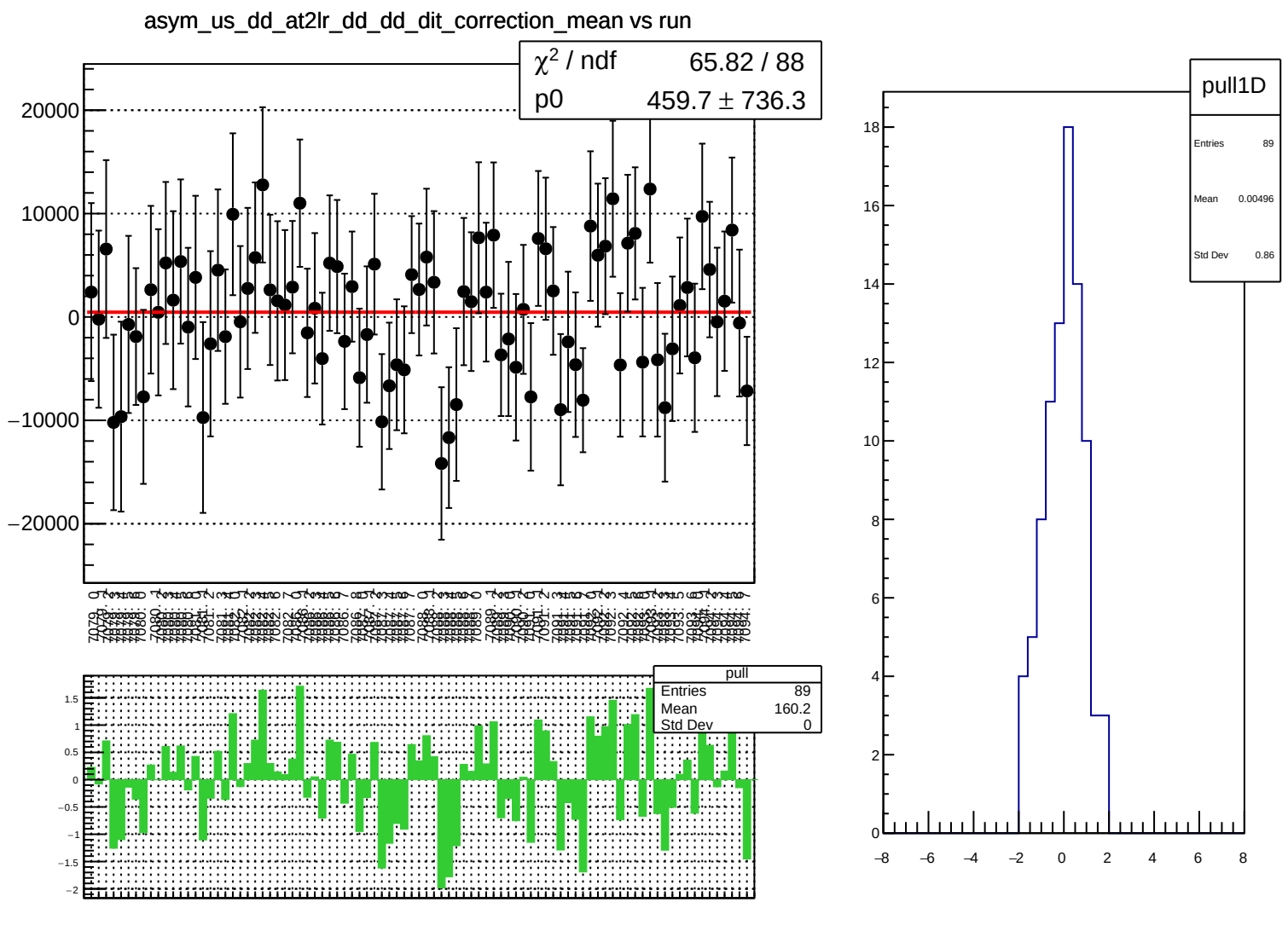

pull1D
Entries 89
Mean 0.003373
Std Dev 0.8584

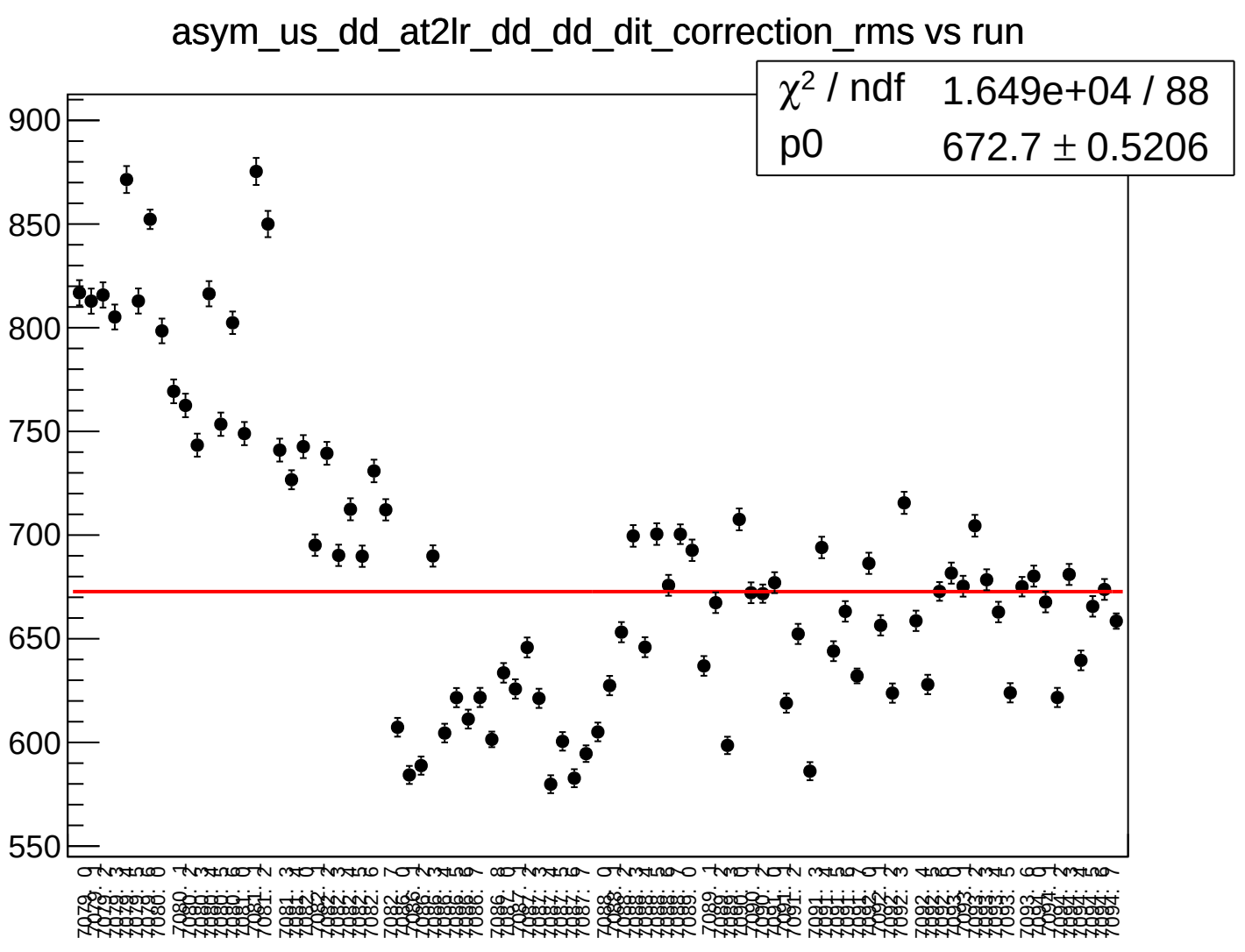

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.203e+04 / 88
p0 599.4 ± 0.4647
850
800
750
700
650
600
550
500

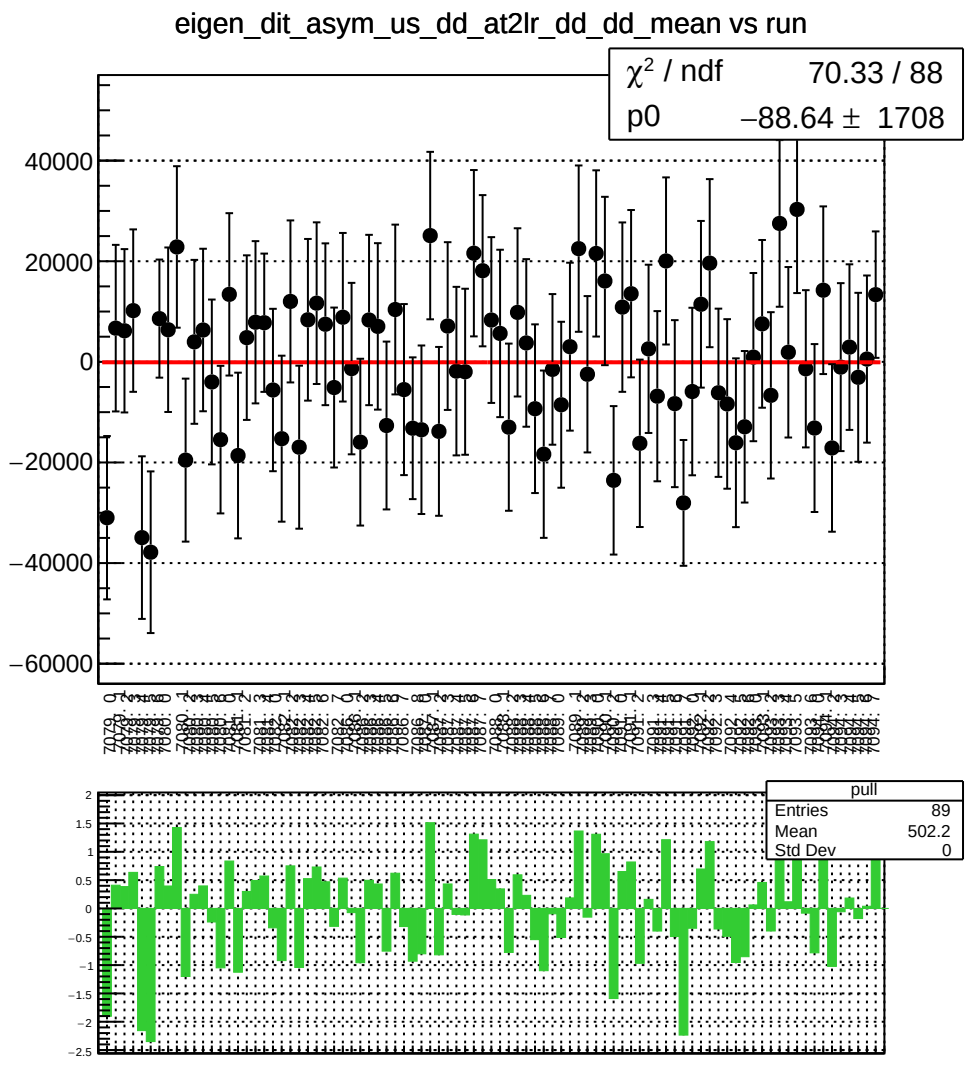

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 70.33 / 88
p0 −88.63 ± 1708
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 502.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

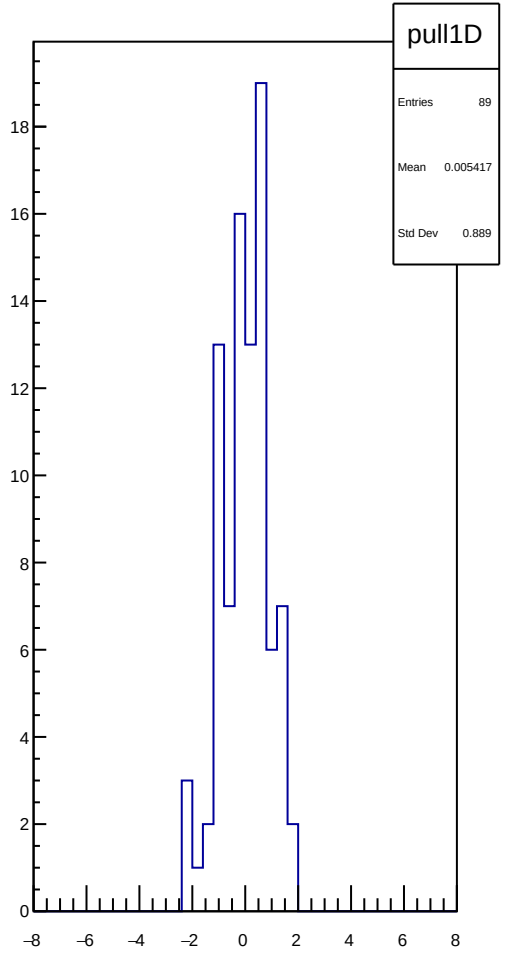

pull1D
Entries 89
Mean 0.005418
Std Dev 0.889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

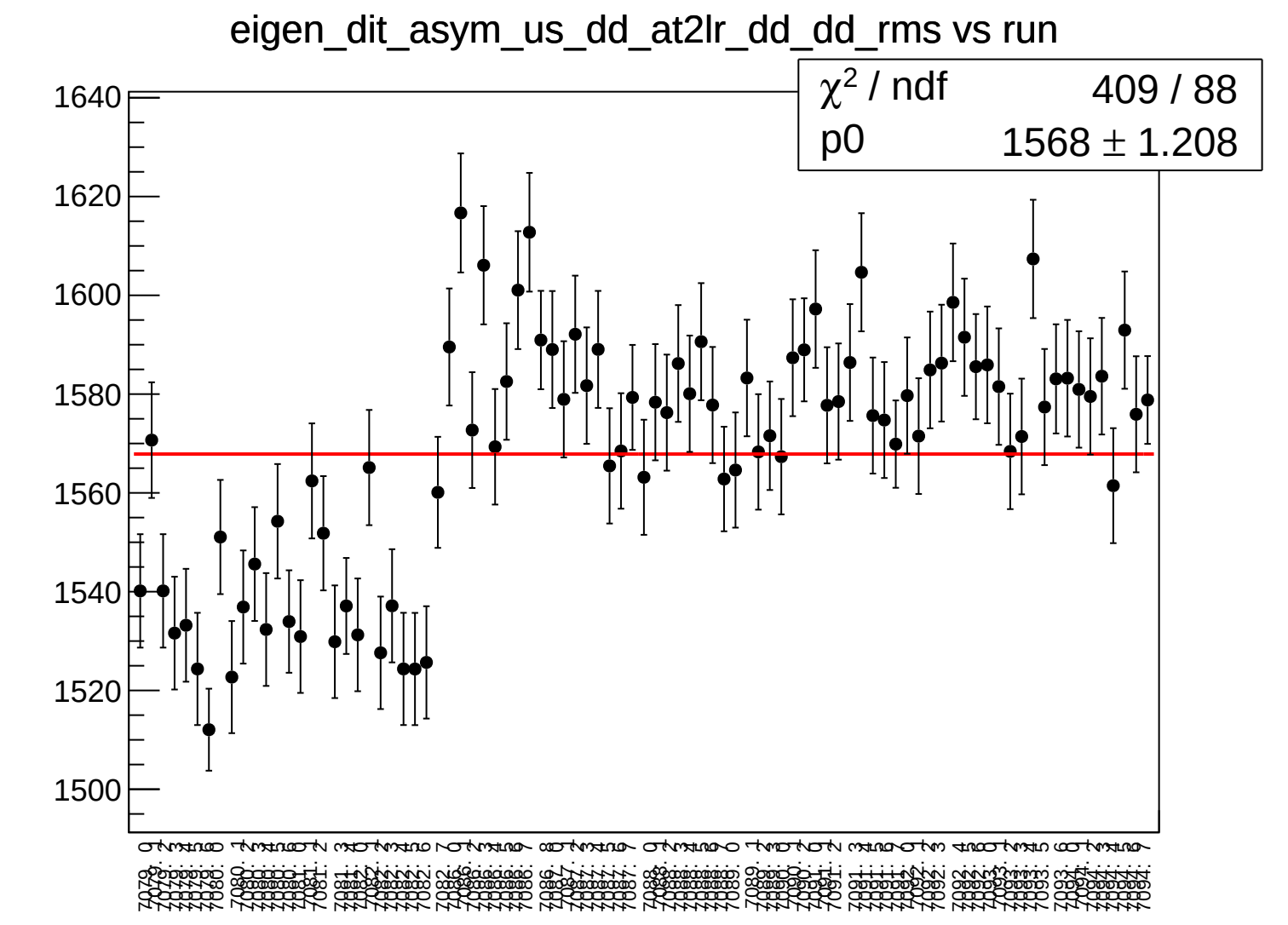

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 409 / 88
p0 1568 ± 1.208
1640
1620
1600
1580
1560
1540
1520
1500

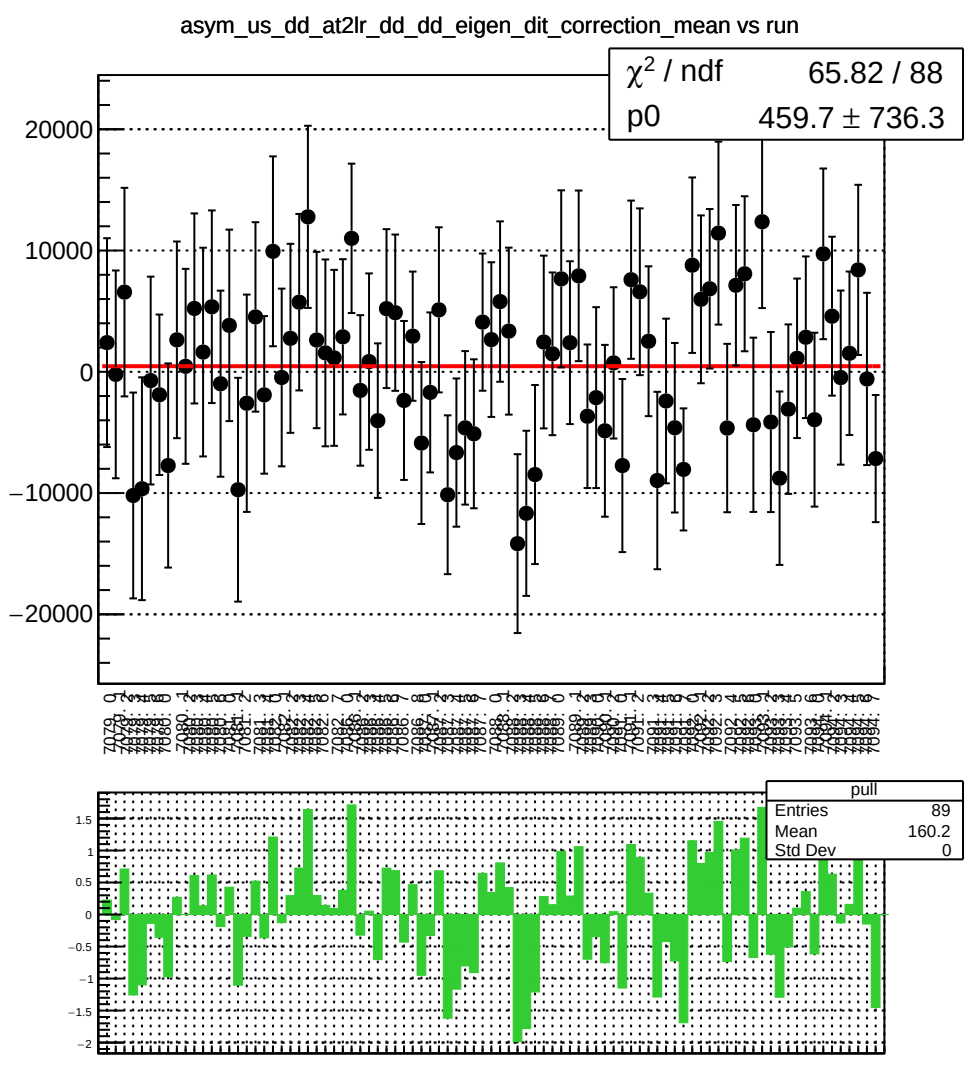

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 65.82 / 88
p0 459.7 ± 736.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 160.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.00496
Std Dev 0.86
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

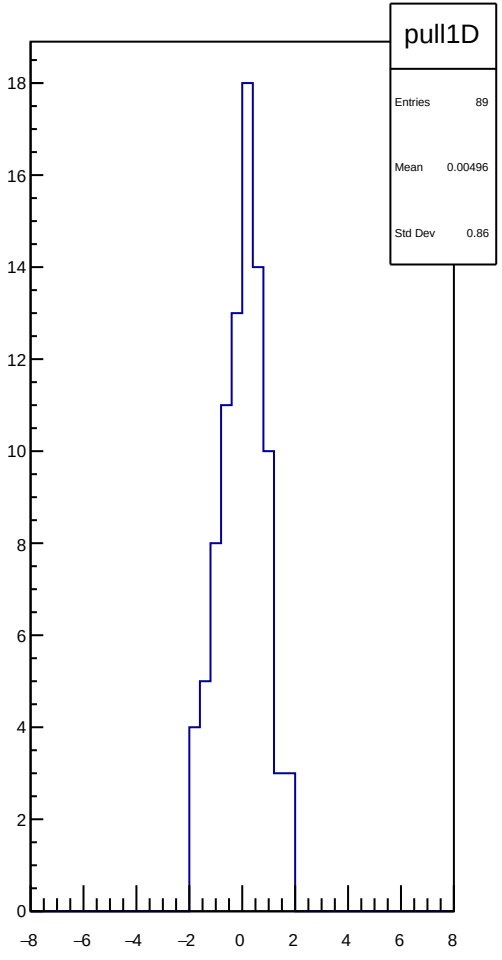

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.649e+04 / 88
p0 672.7 ± 0.5206
900
850
800
750
700
650
600
550

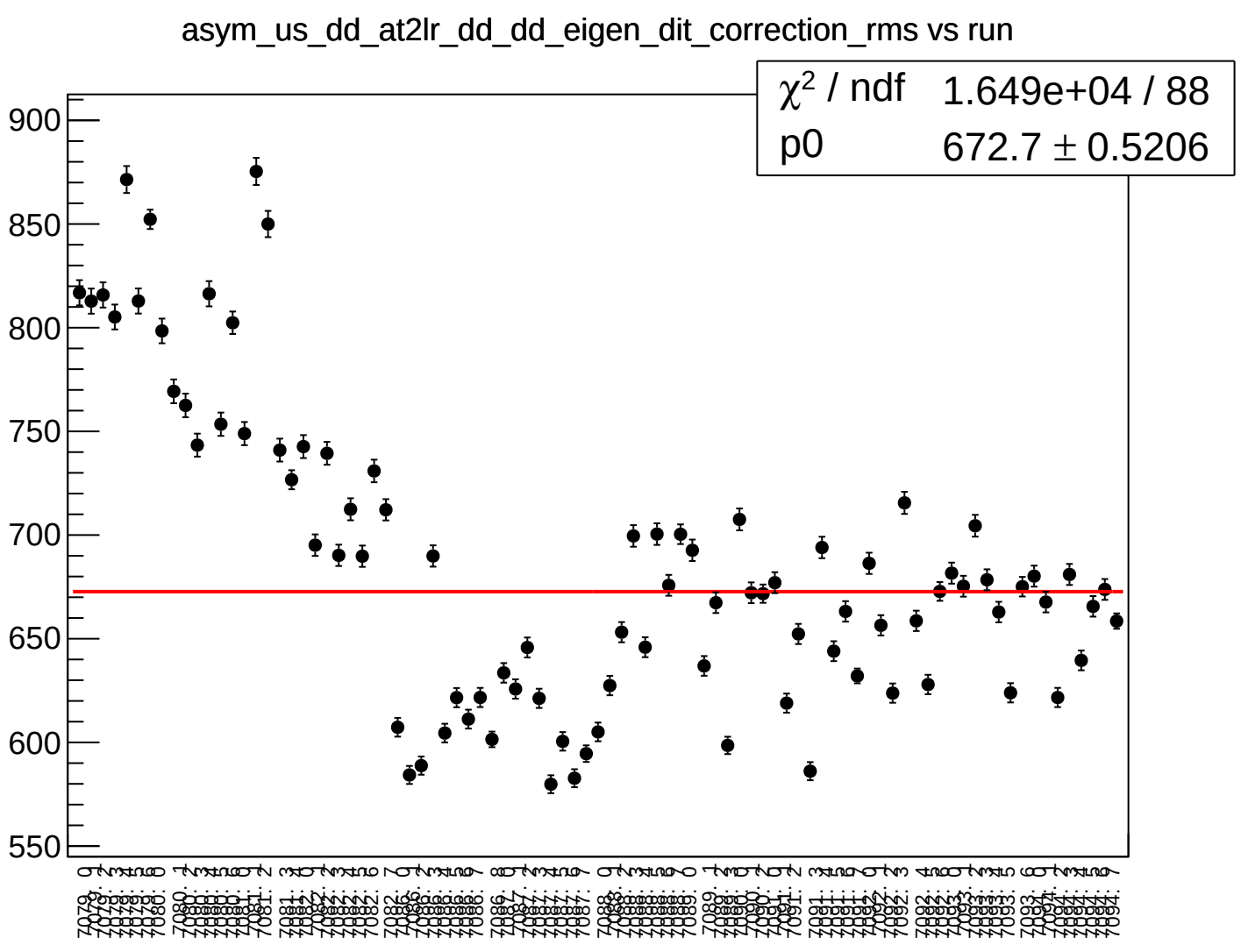

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 70.33 / 88
p0 −88.64 ± 1708
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 502.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

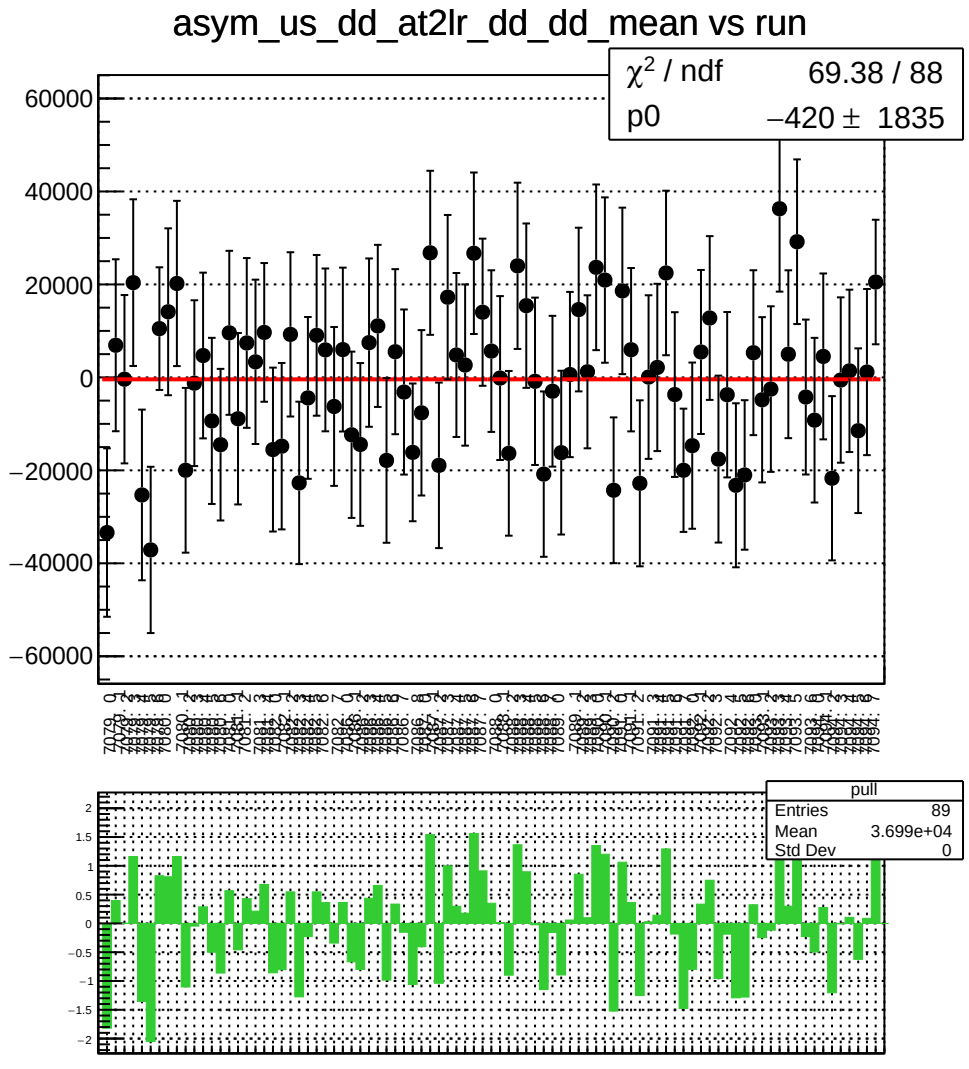

pull1D
Entries 89
Mean 0.005417
Std Dev 0.889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

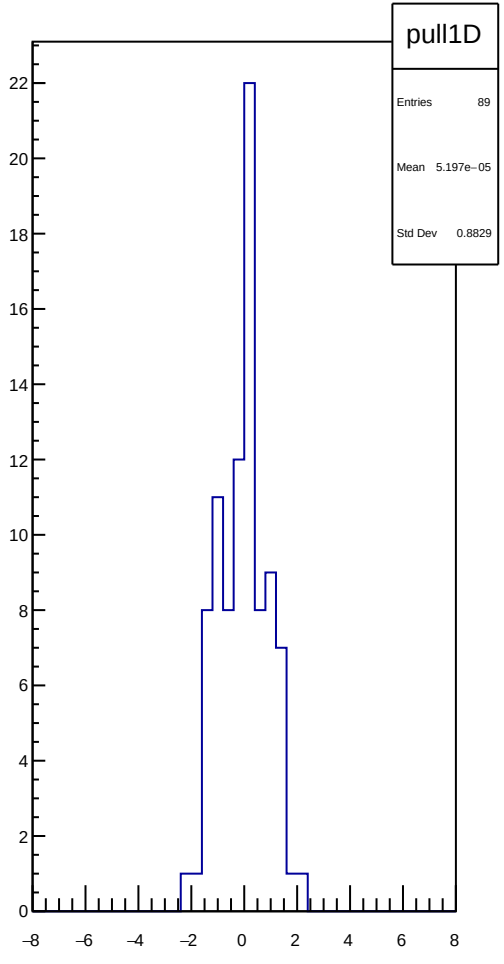

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 409 / 88
p0 1568 ± 1.208
1640
1620
1600
1580
1560
1540
1520
1500

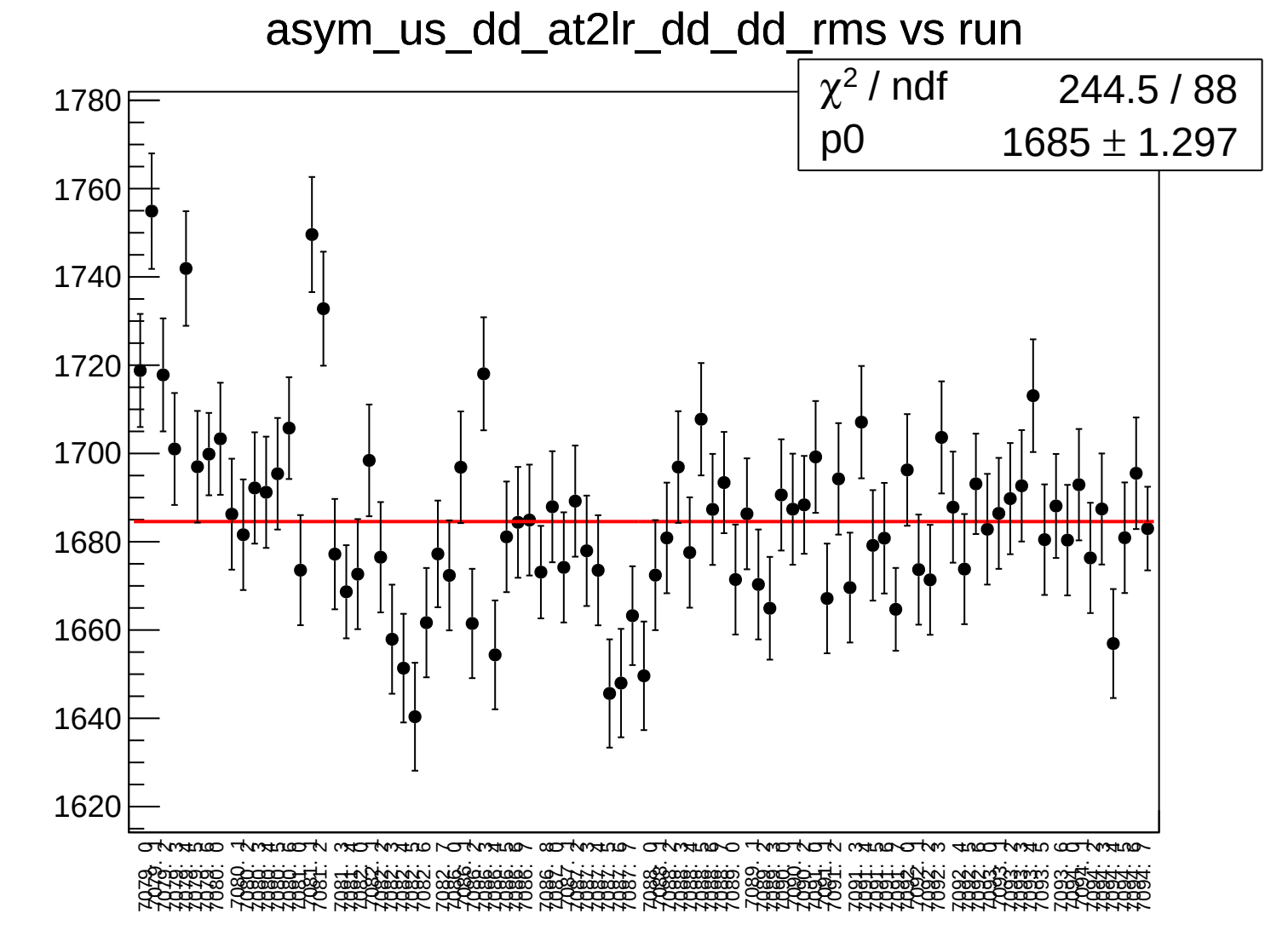

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.82 / 88
p0 459.7 ± 736.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 160.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

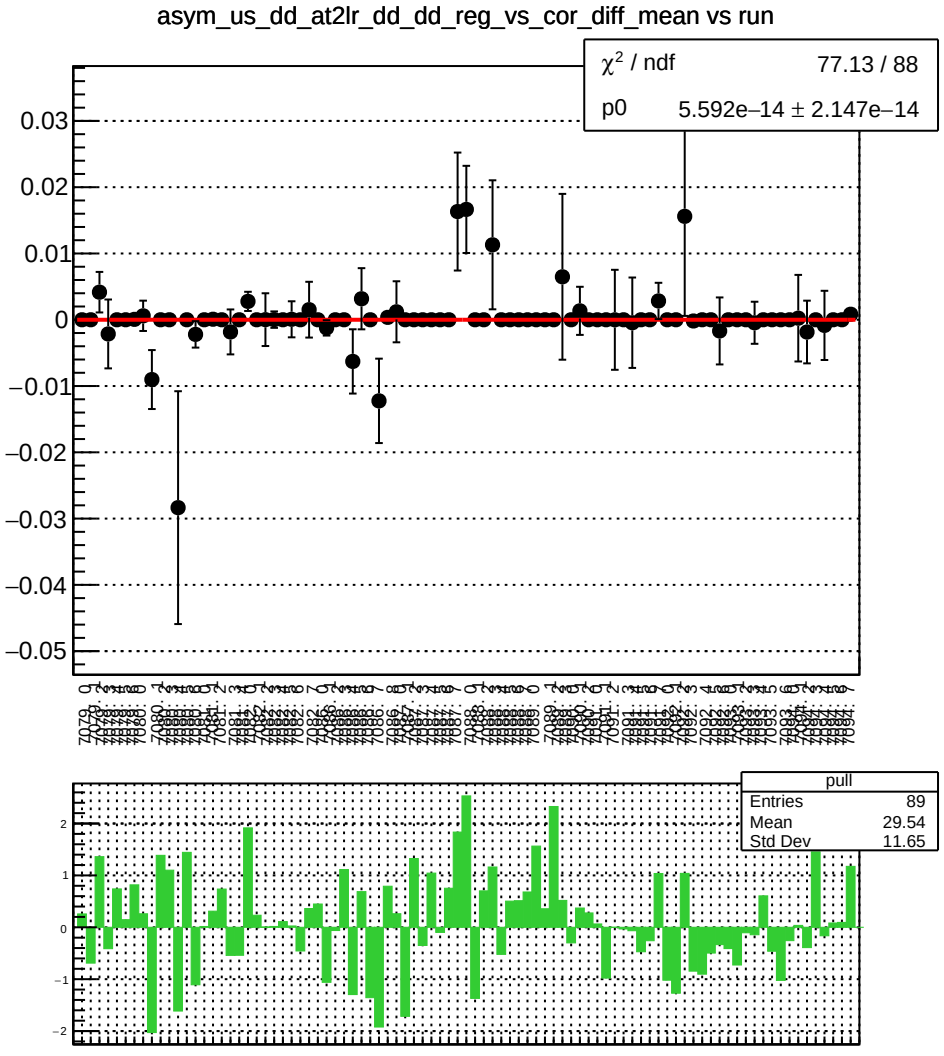

pull1D
Entries 89
Mean 0.00496
Std Dev 0.86
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

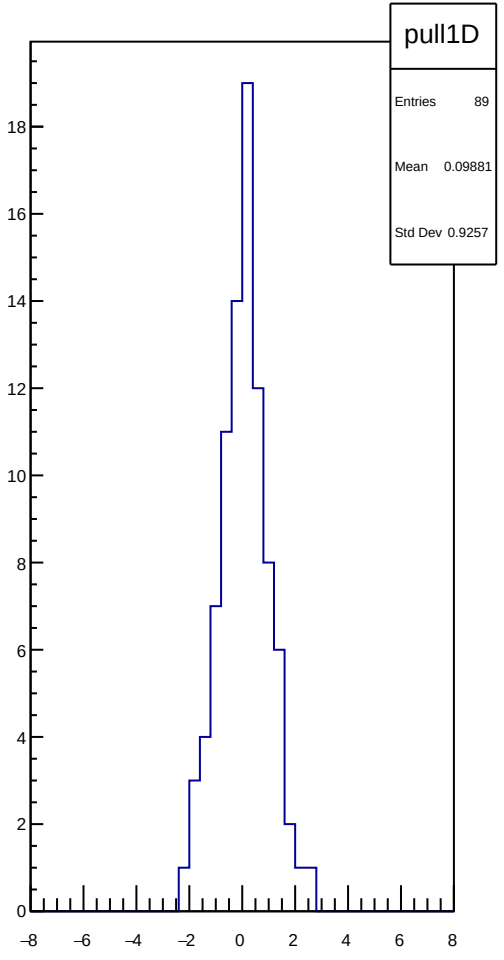

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.649e+04 / 88
p0 672.7 ± 0.5206
900
850
800
750
700
650
600
550

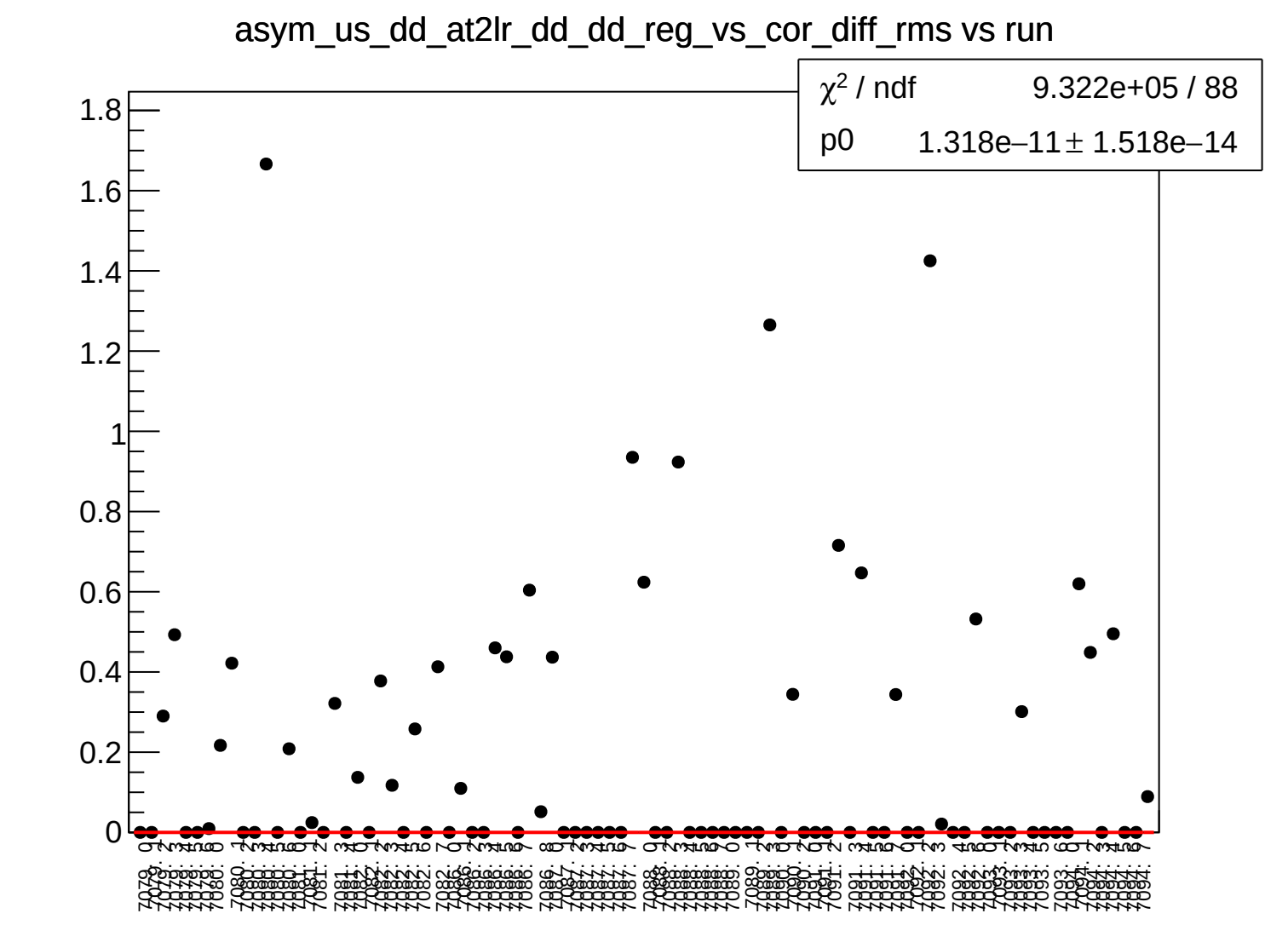

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 69.38 / 88
p0 −420 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 3.699e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

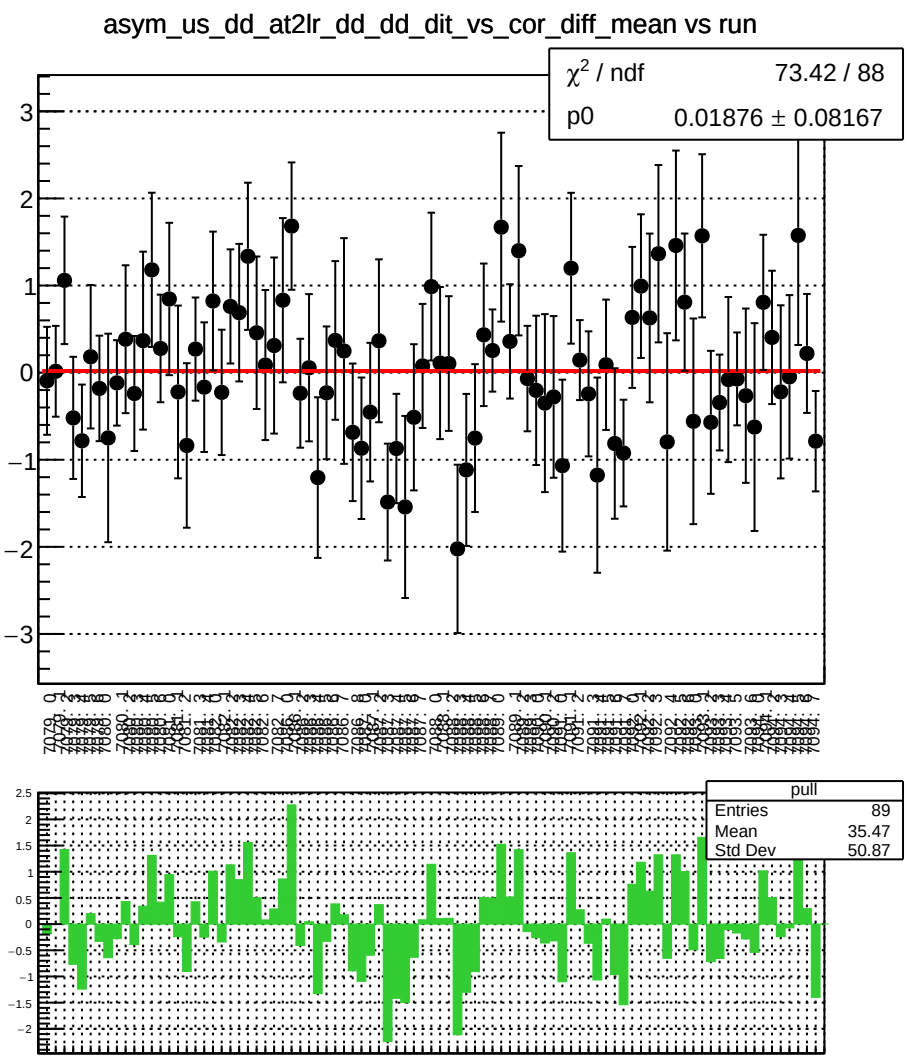

pull1D
Entries 89
Mean 5.197e−05
Std Dev 0.8829
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

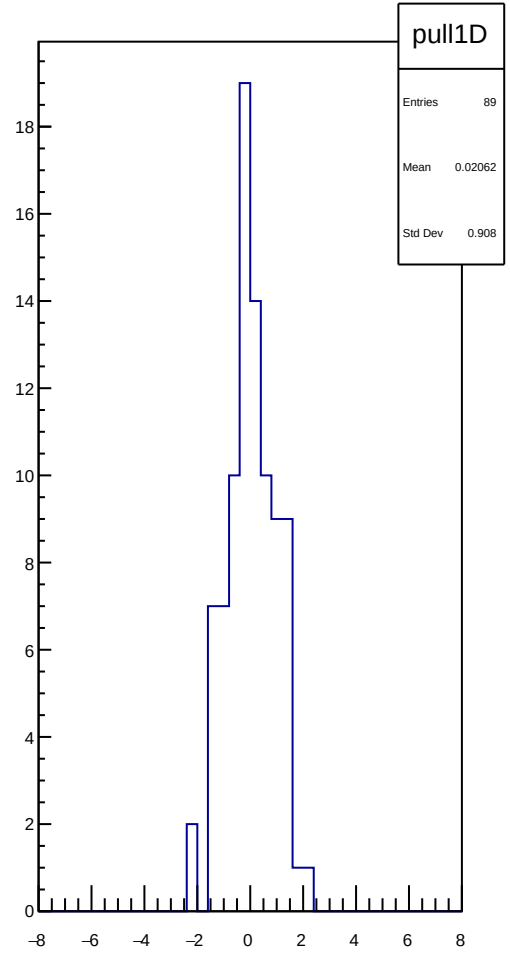

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 244.5 / 88
p0 1685 ± 1.297
1780
1760
1740
1720
1700
1680
1660
1640
1620

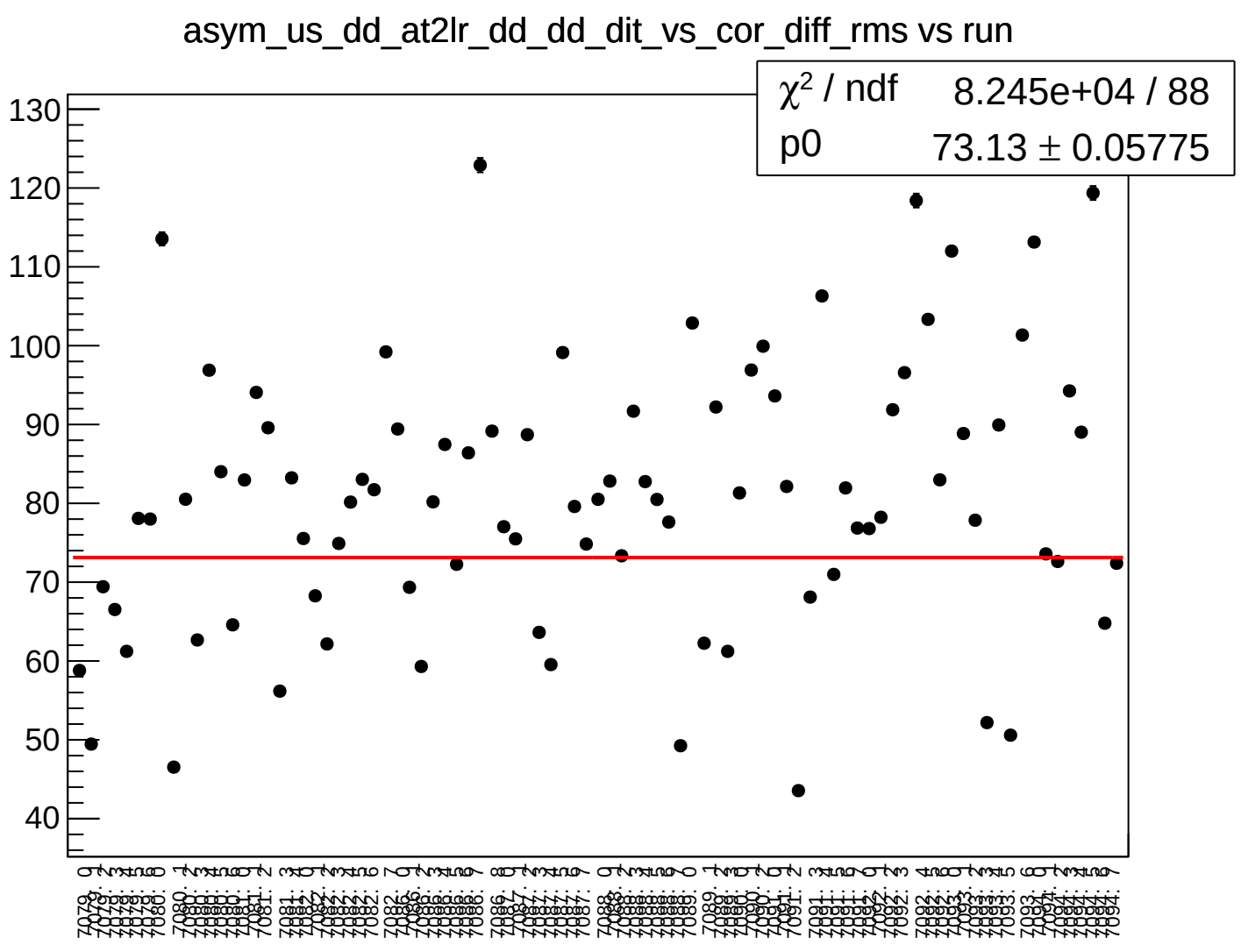

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.13 / 88
p0 5.592e−14 ± 2.147e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 89
Mean 29.54
Std Dev 11.65
2
1
0
−1
−2

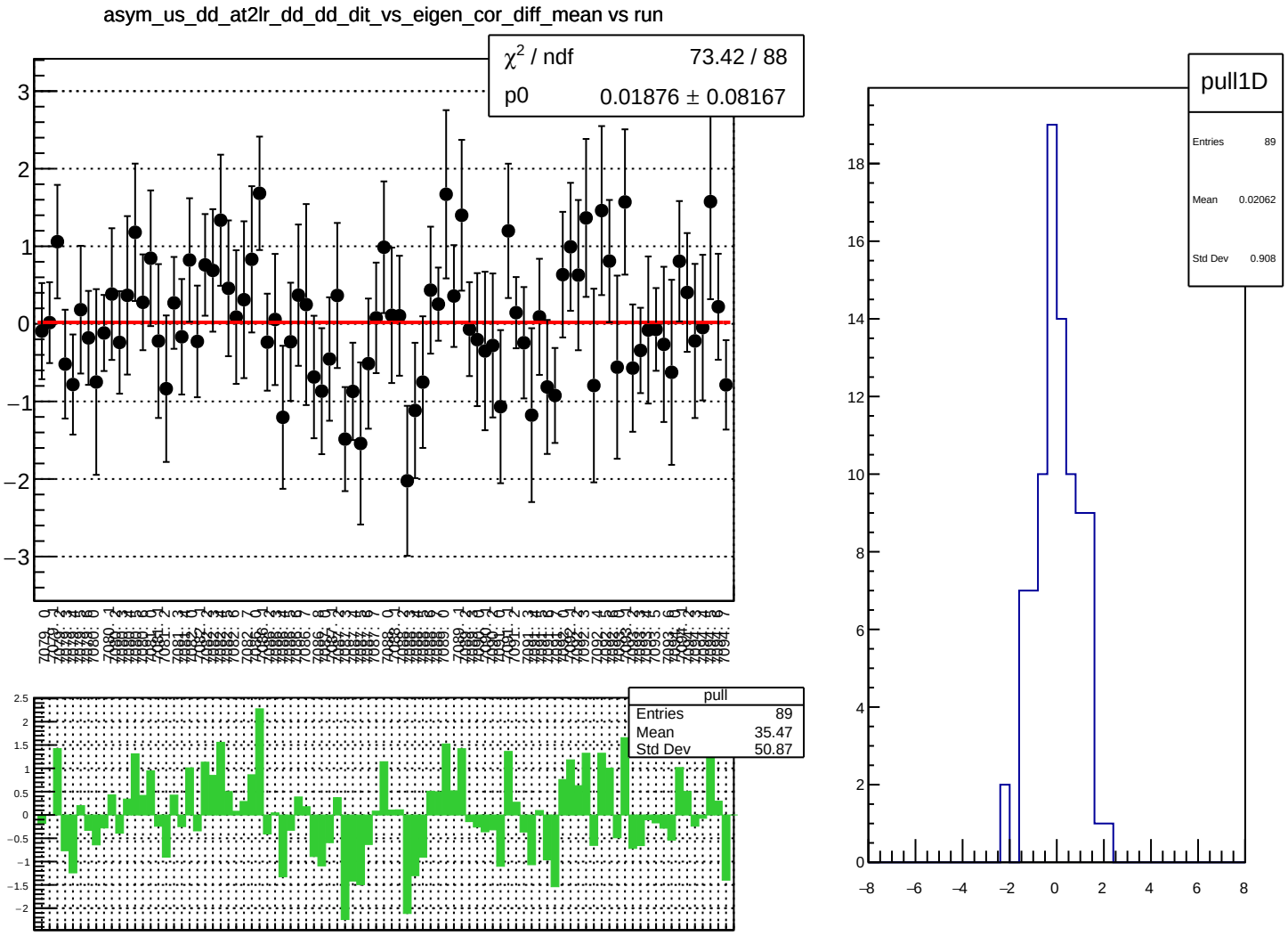

pull1D
Entries 89
Mean 0.09881
Std Dev 0.9257
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

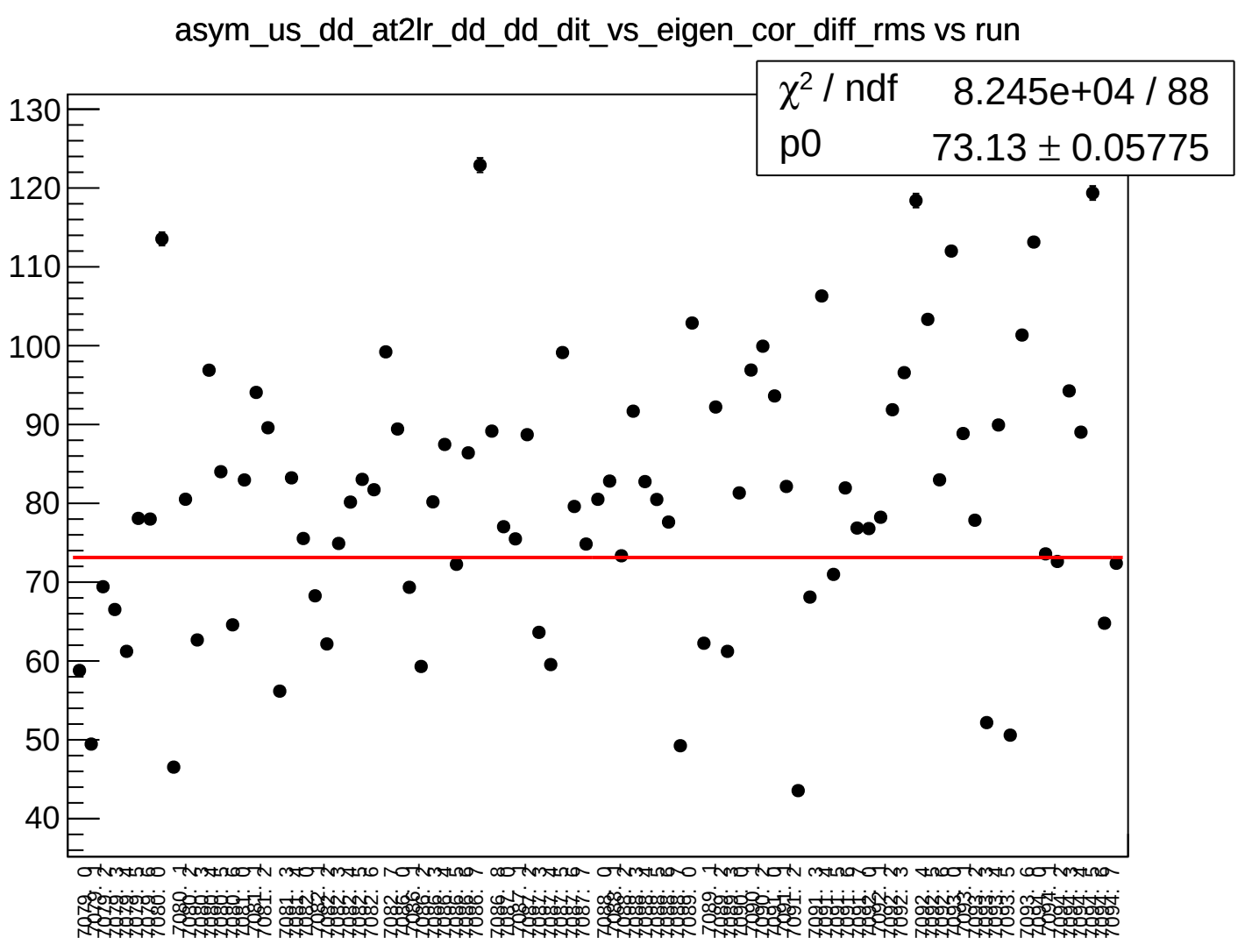

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.322e+05 / 88
p0 1.318e−11 ± 1.518e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

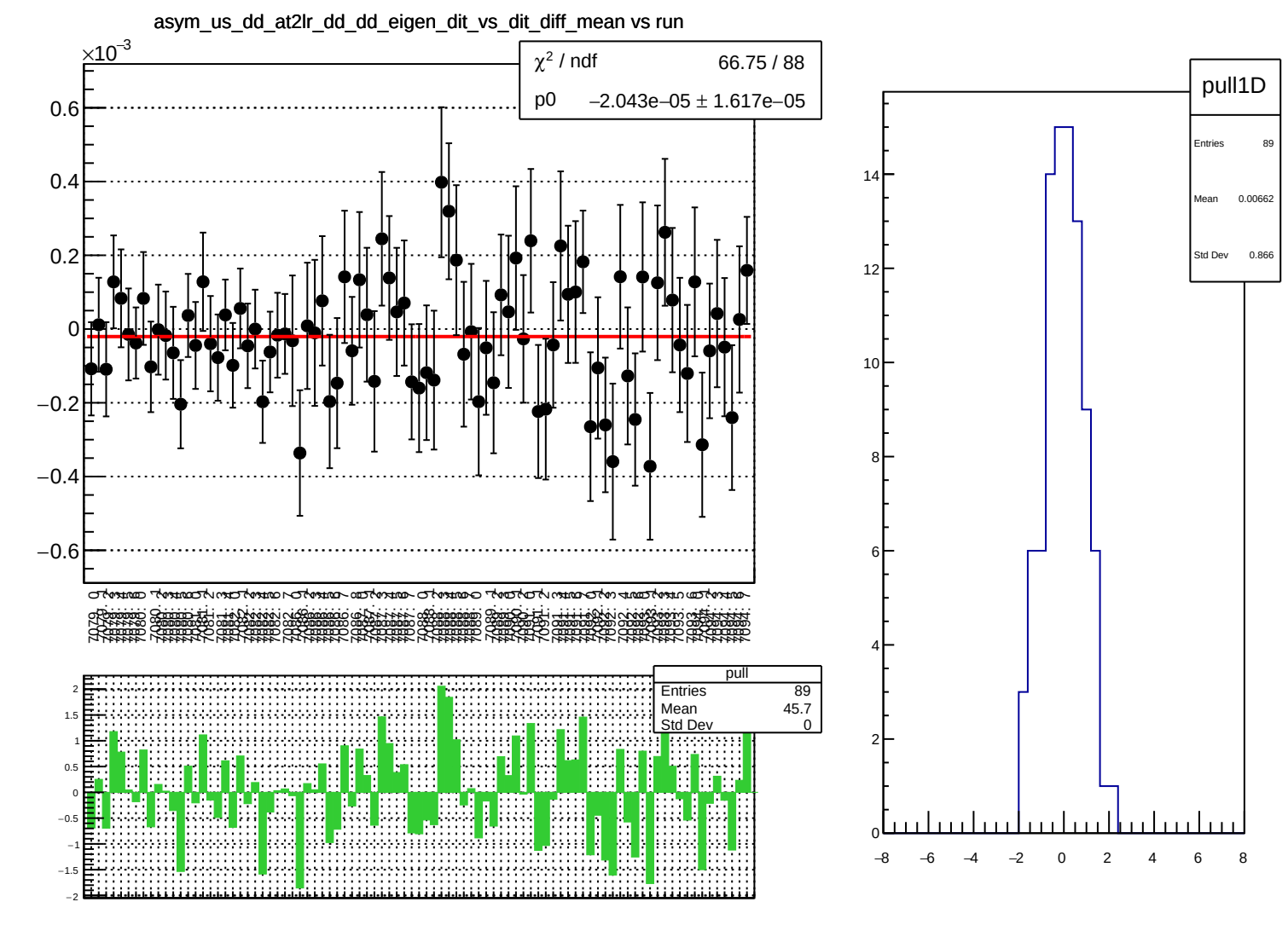

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.42 / 88
p0 0.01876 ± 0.08167
pull
Entries 89
Mean 35.47
Std Dev 50.87

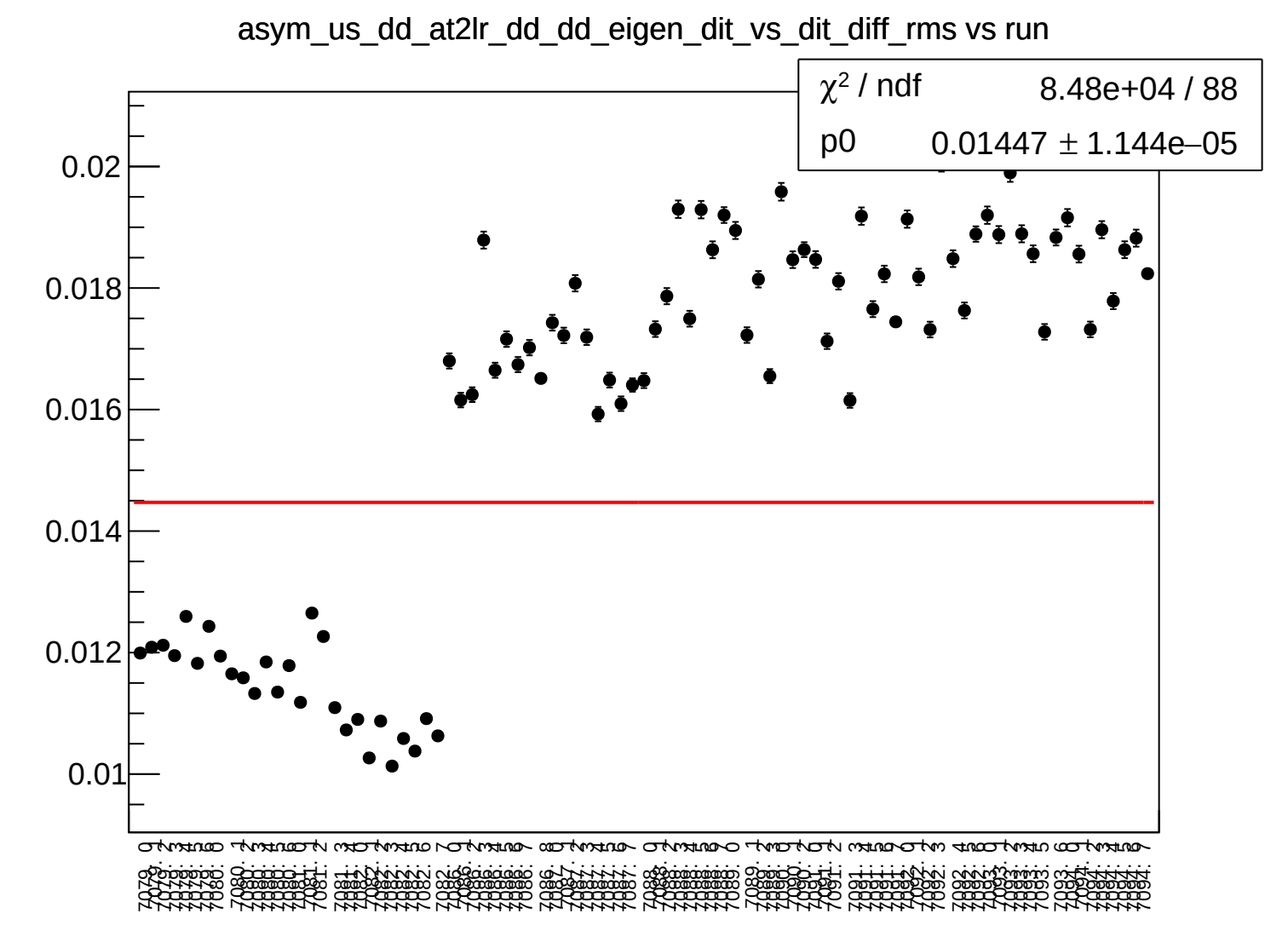

pull1D
Entries 89
Mean 0.02062
Std Dev 0.908

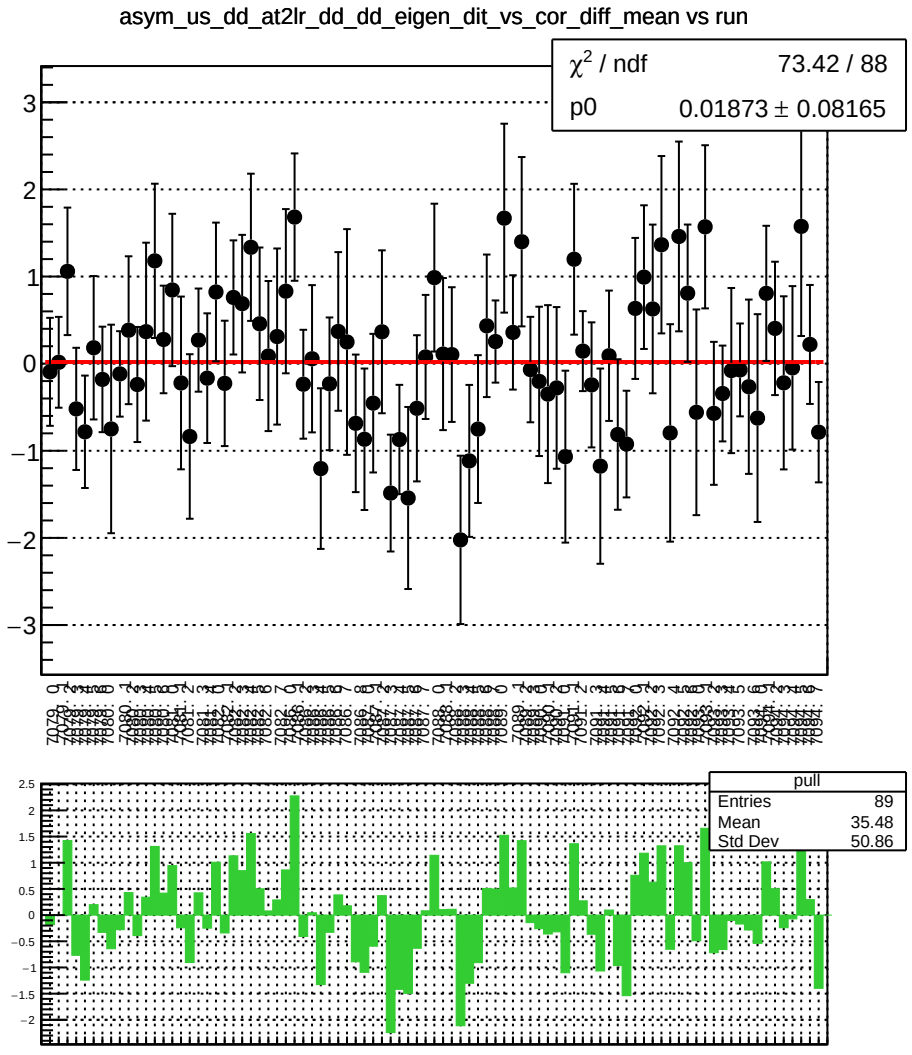

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.245e+04 / 88
p0 73.13 ± 0.05775
130
120
110
100
90
80
70
60
50
40

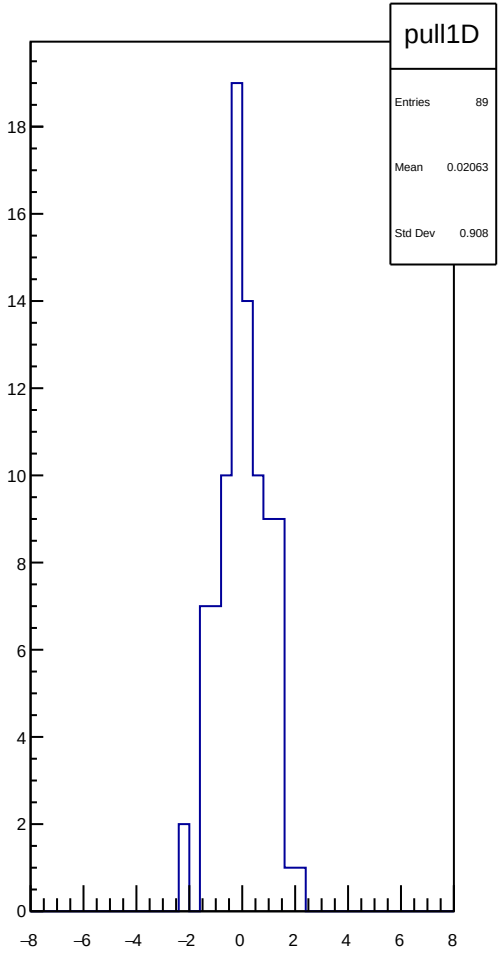

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.42 / 88
p0 0.01876 ± 0.08167
pull
Entries 89
Mean 35.47
Std Dev 50.87
pull1D
Entries 89
Mean 0.02062
Std Dev 0.908

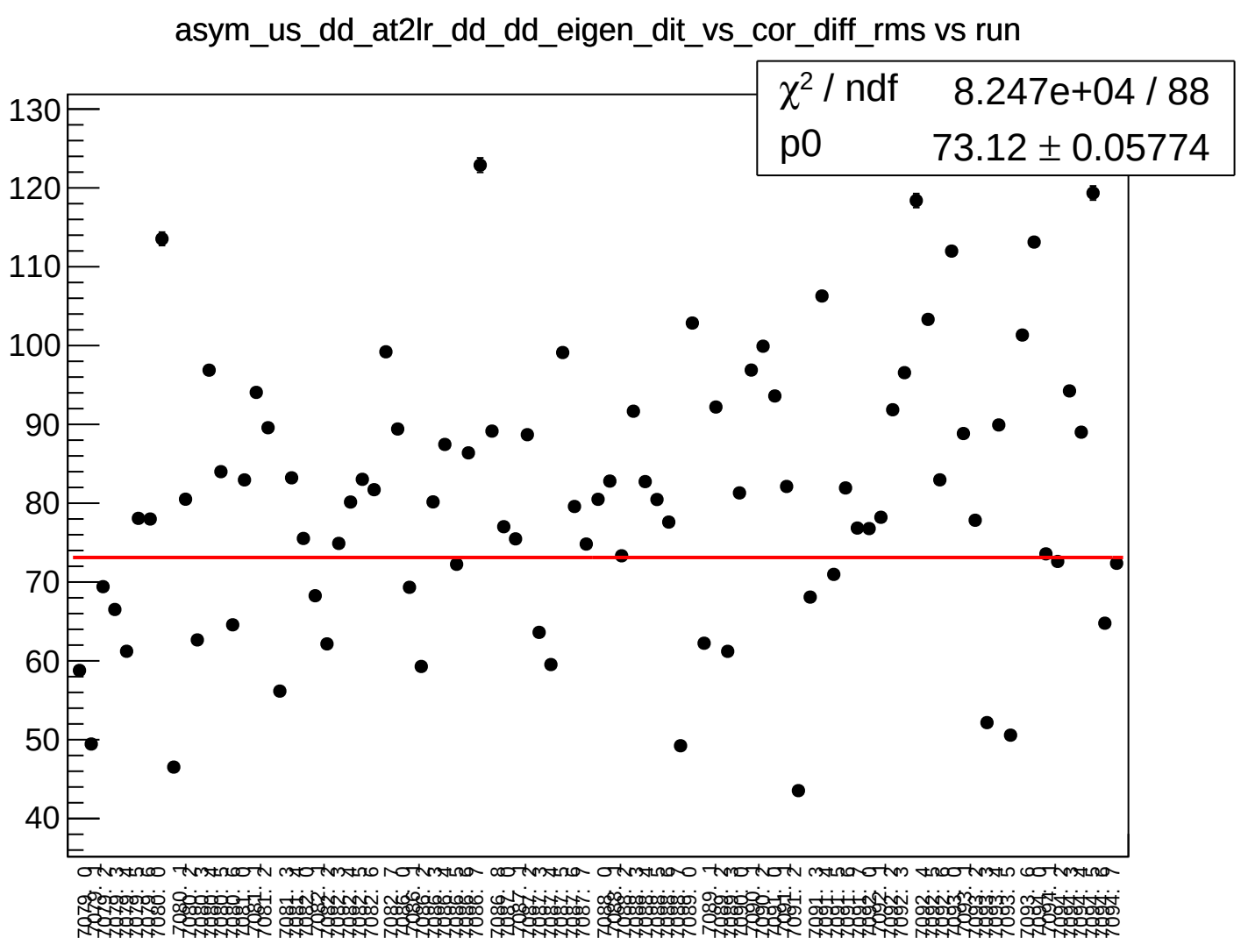

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.245e+04 / 88
p0 73.13 ± 0.05775
130
120
110
100
90
80
70
60
50
40

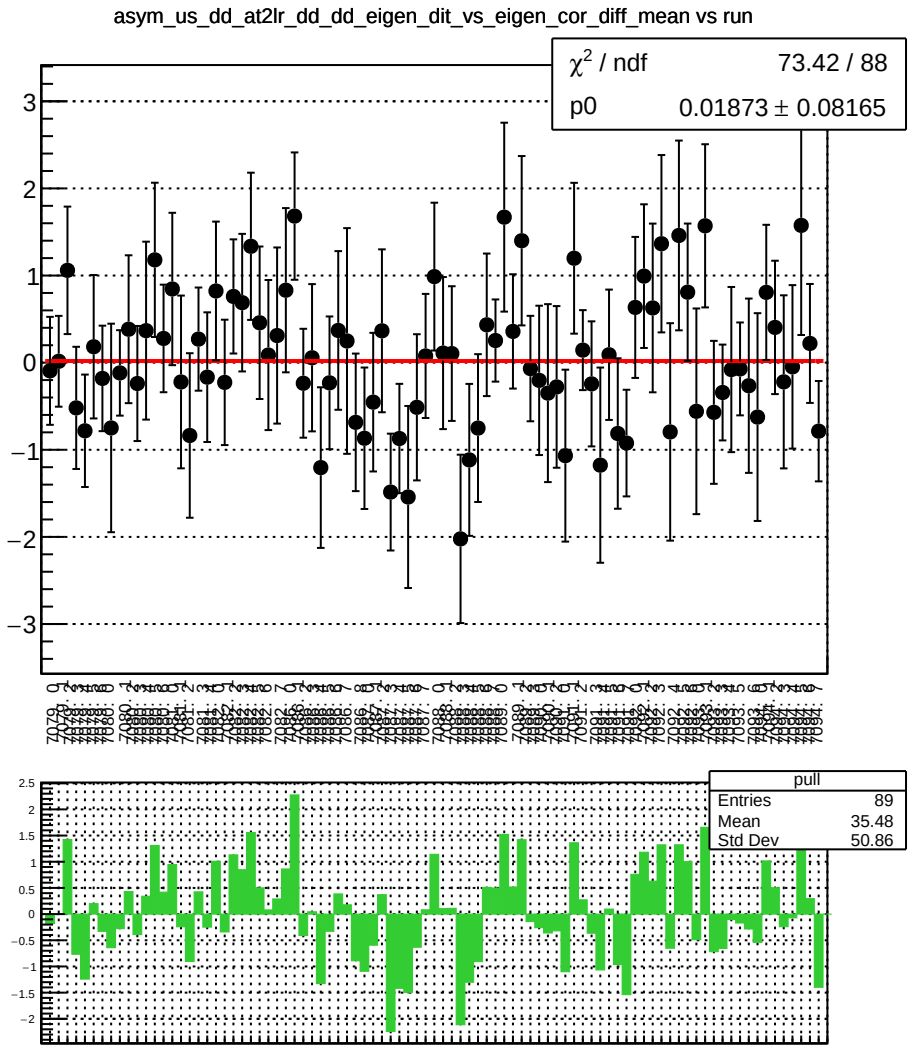

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.75 / 88
p0 −2.043e−05 ± 1.617e−05
pull
Entries 89
Mean 45.7
Std Dev 0
pull1D
Entries 89
Mean 0.00662
Std Dev 0.866

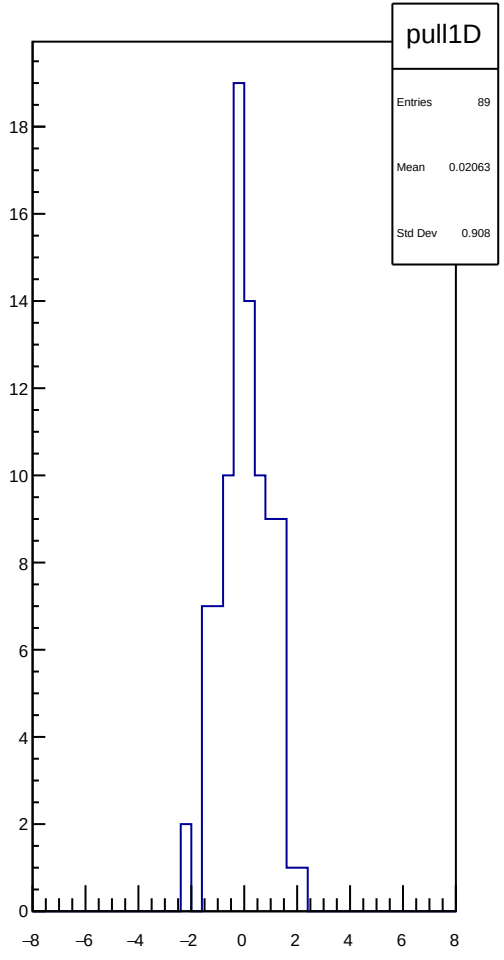

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.48e+04 / 88
p0 0.01447 ± 1.144e−05
0.02
0.018
0.016
0.014
0.012
0.01

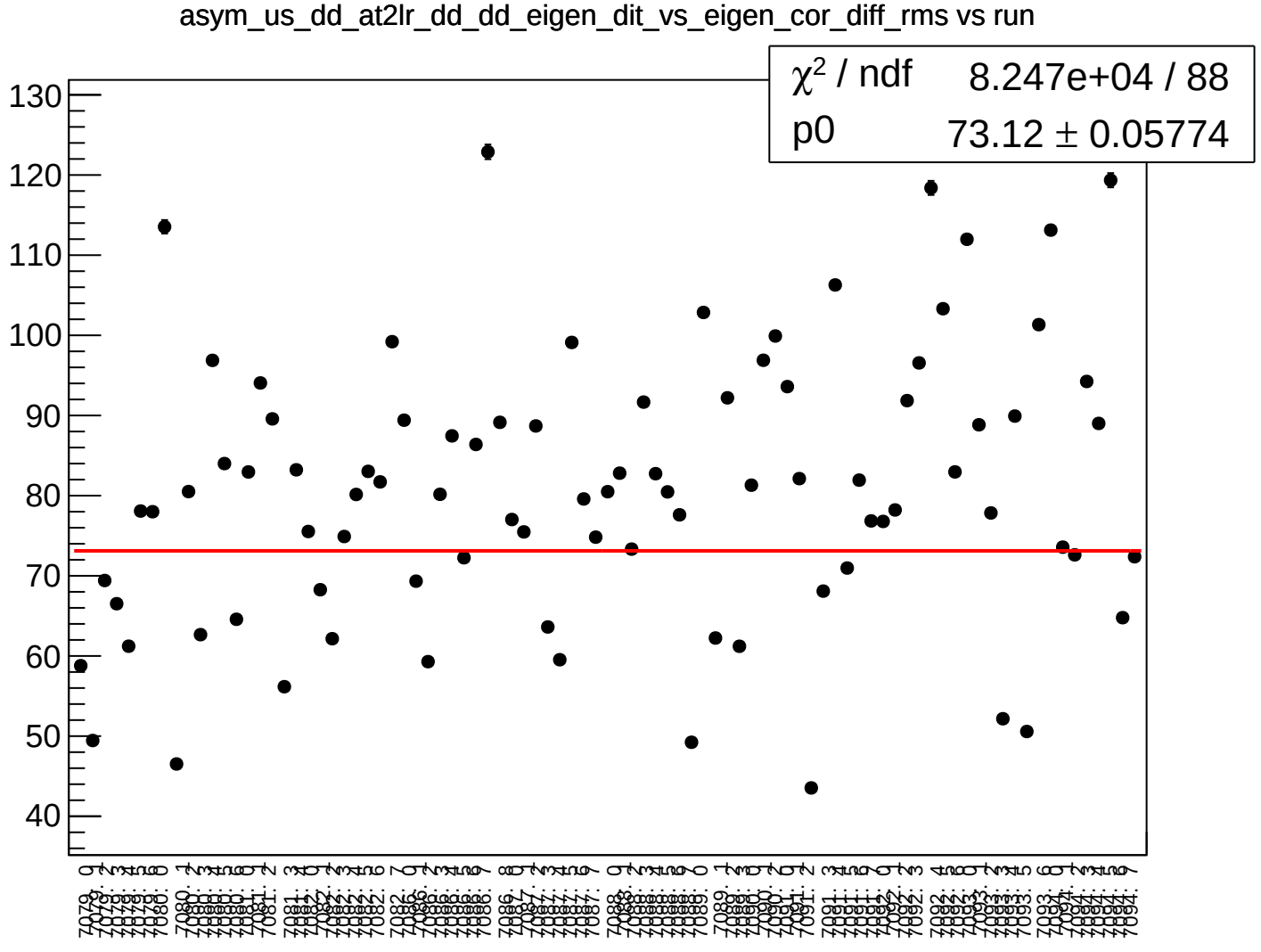

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.42 / 88
p0 0.01873 ± 0.08165
pull
Entries 89
Mean 35.48
Std Dev 50.86

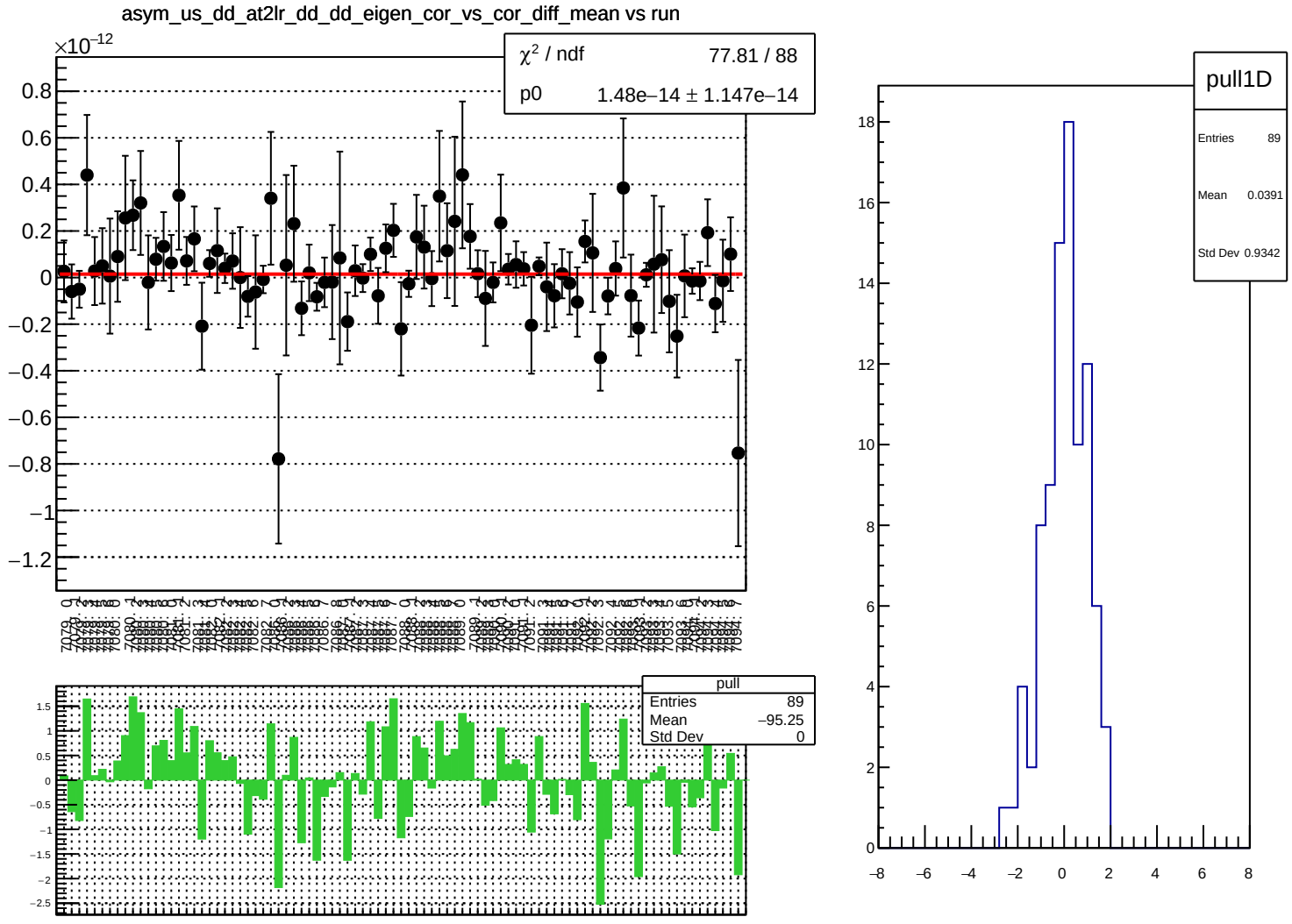

pull1D
Entries 89
Mean 0.02063
Std Dev 0.908

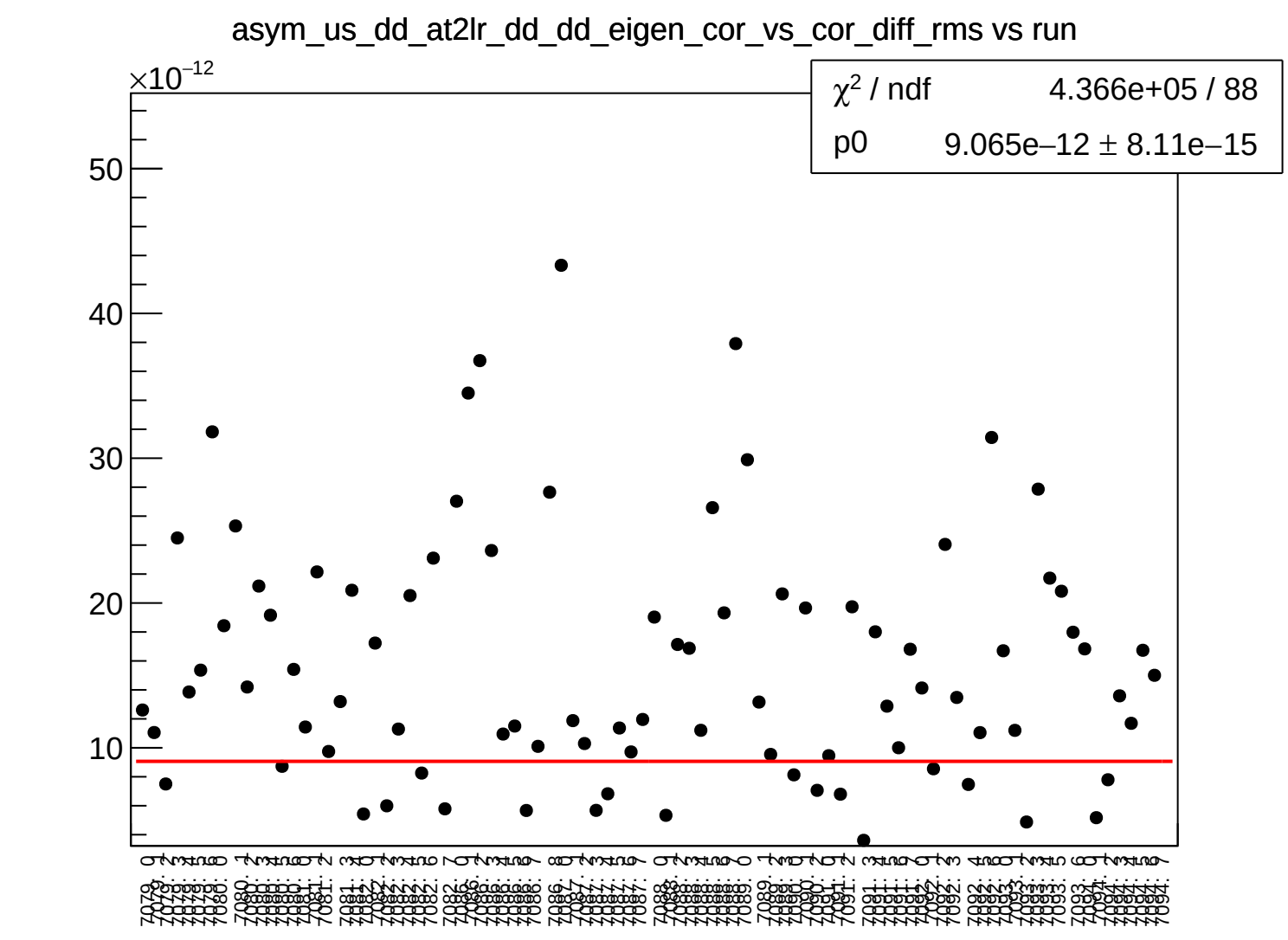

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.247e+04 / 88
p0 73.12 ± 0.05774
130
120
110
100
90
80
70
60
50
40

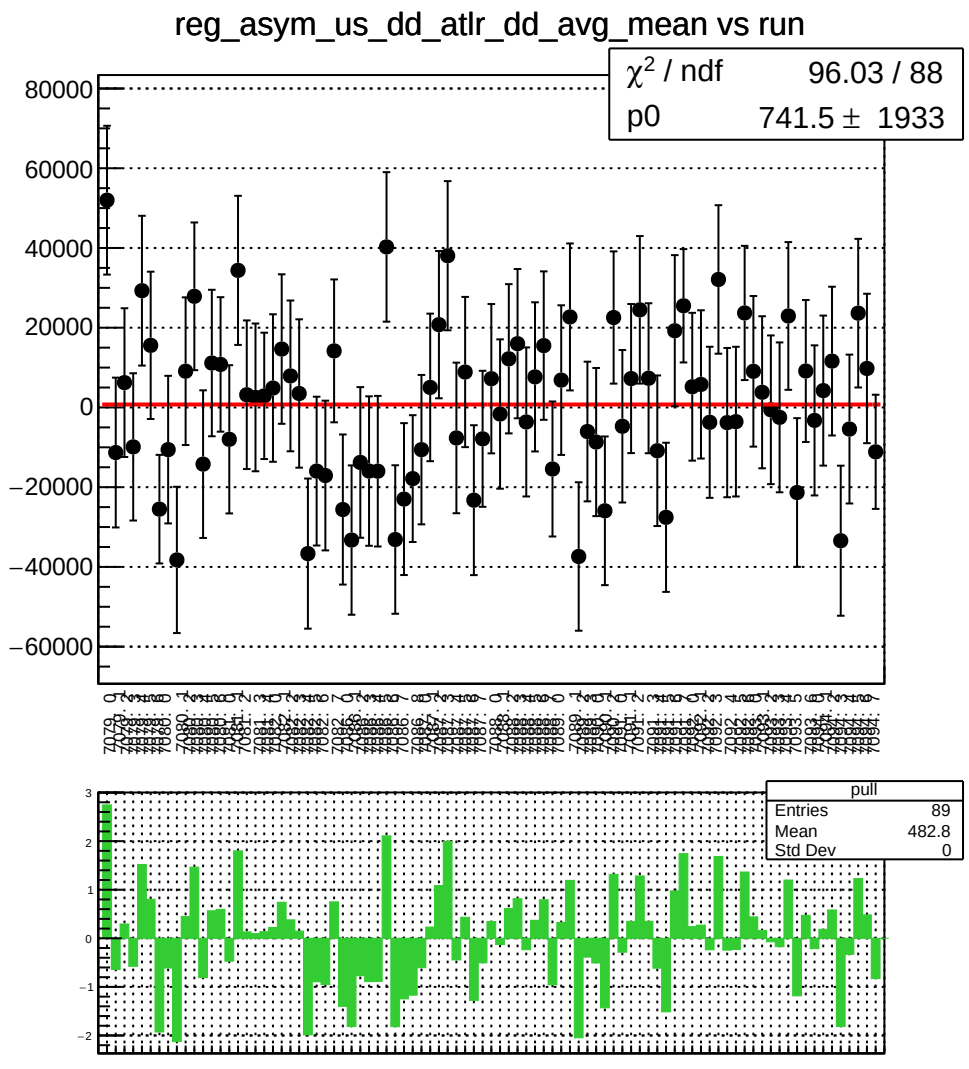

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.42 / 88
p0 0.01873 ± 0.08165
pull
Entries 89
Mean 35.48
Std Dev 50.86

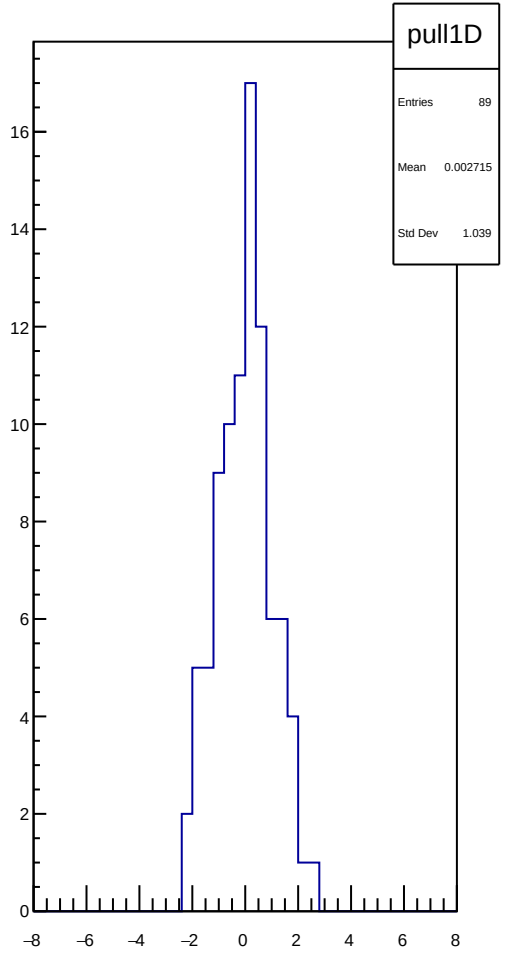

pull1D
Entries 89
Mean 0.02063
Std Dev 0.908

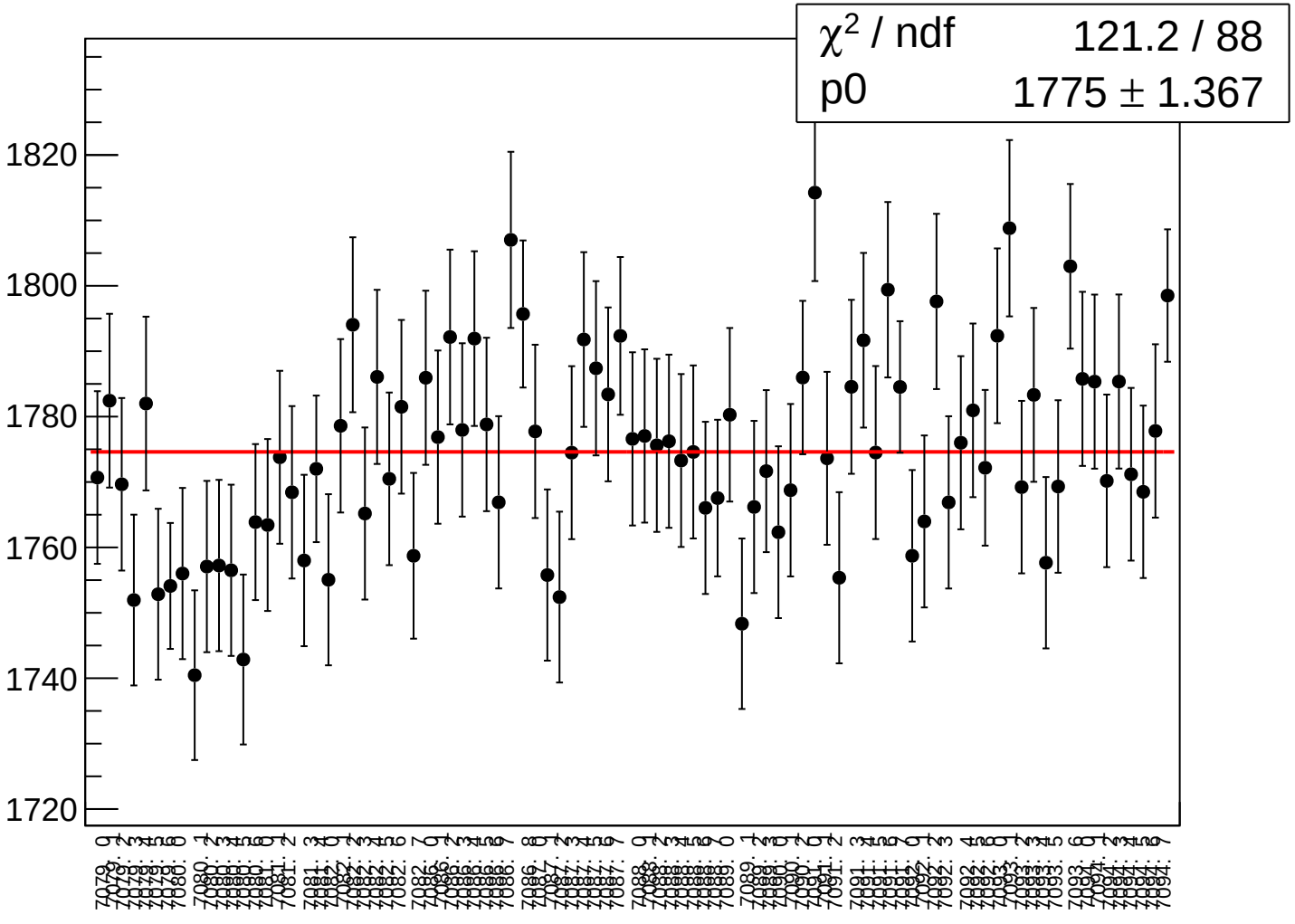

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.247e+04 / 88
p0 73.12 ± 0.05774
130
120
110
100
90
80
70
60
50
40

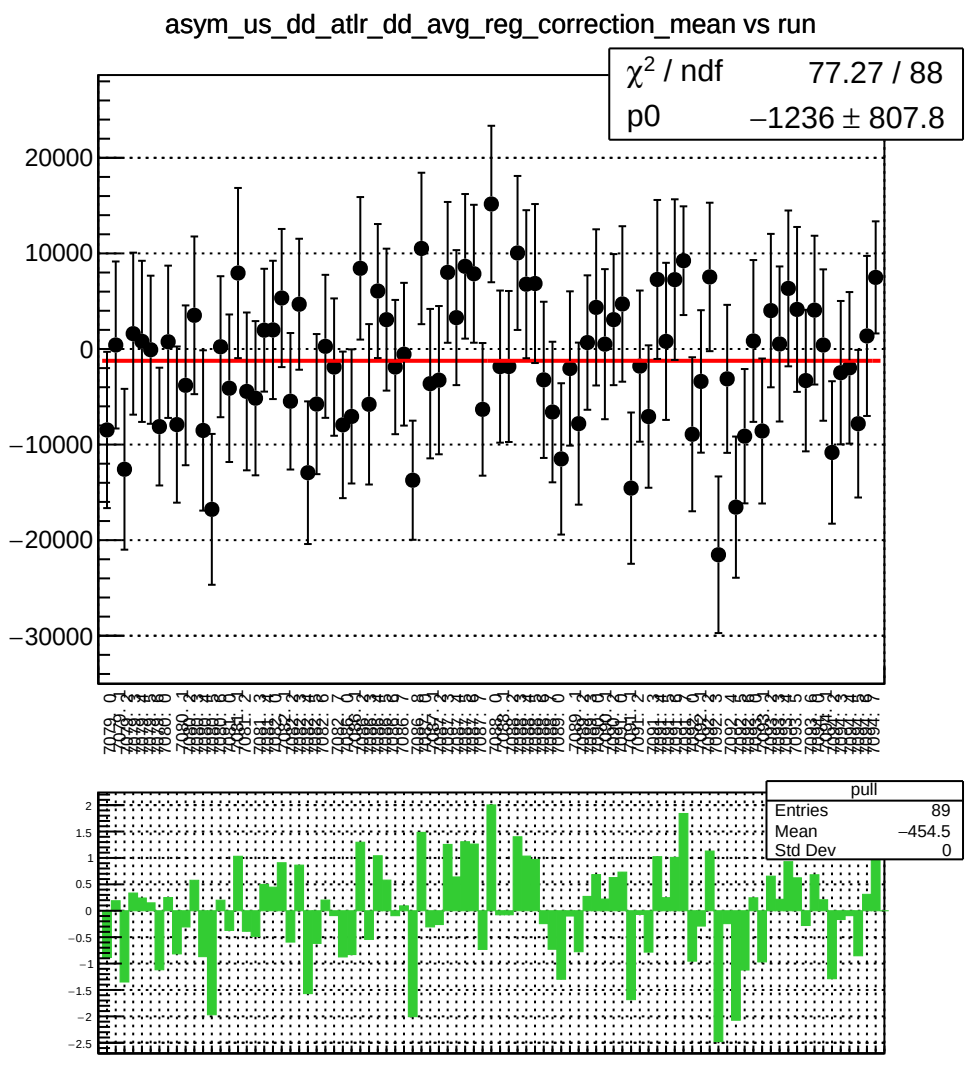

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.81 / 88
p0 1.48e−14 ± 1.147e−14
pull
Entries 89
Mean −95.25
Std Dev 0
pull1D
Entries 89
Mean 0.0391
Std Dev 0.9342

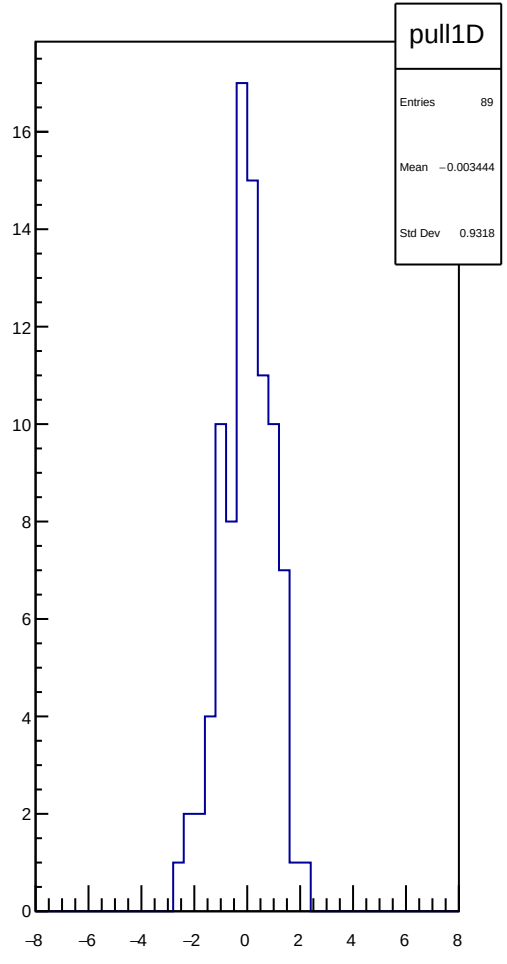

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.366e+05 / 88
p0 9.065e−12 ± 8.11e−15
50
40
30
20
10

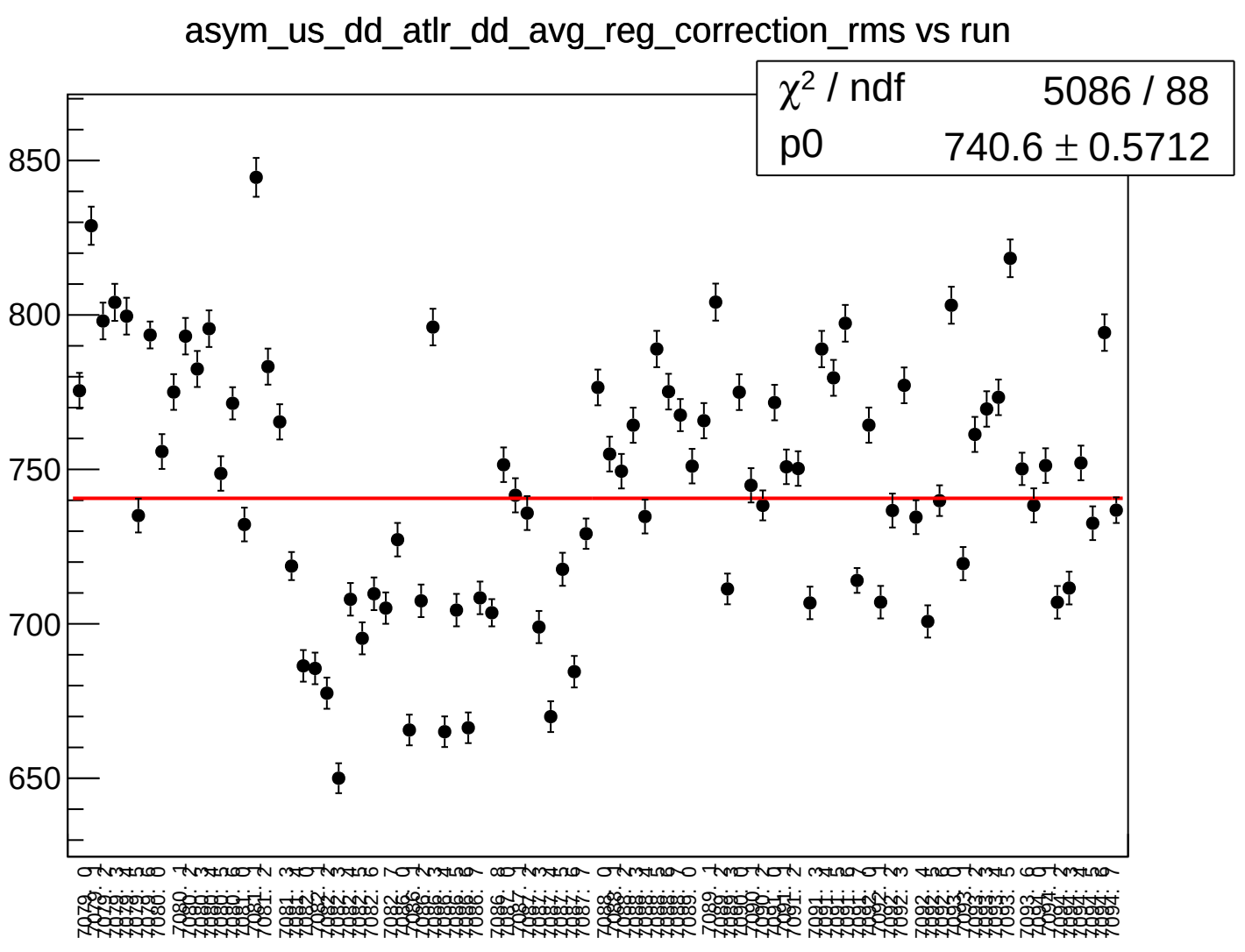

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.03 / 88
p0 741.5 ± 1933
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 482.8
Std Dev 0
3
2
1
0
−1
−2

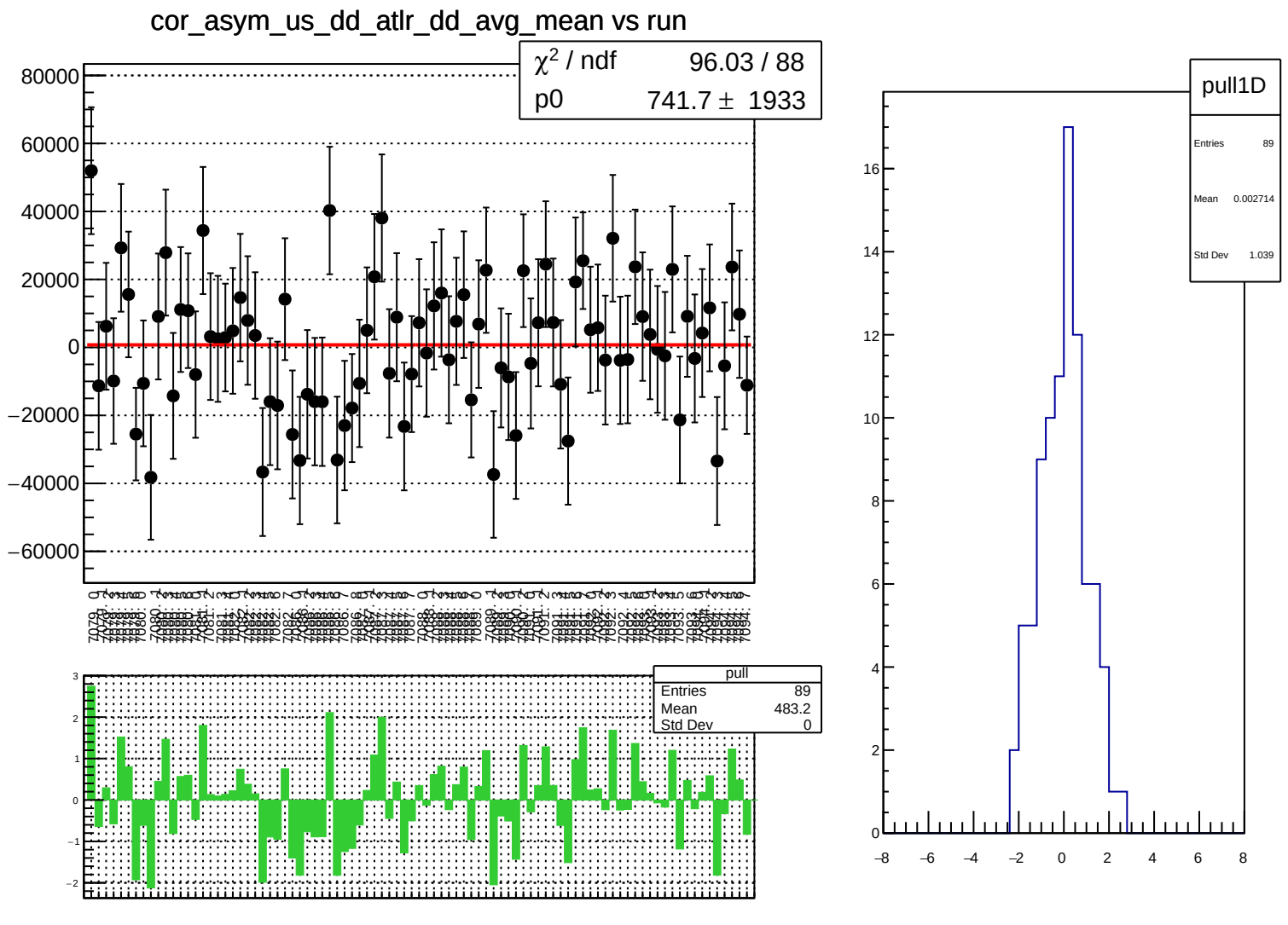

pull1D
Entries 89
Mean 0.002715
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

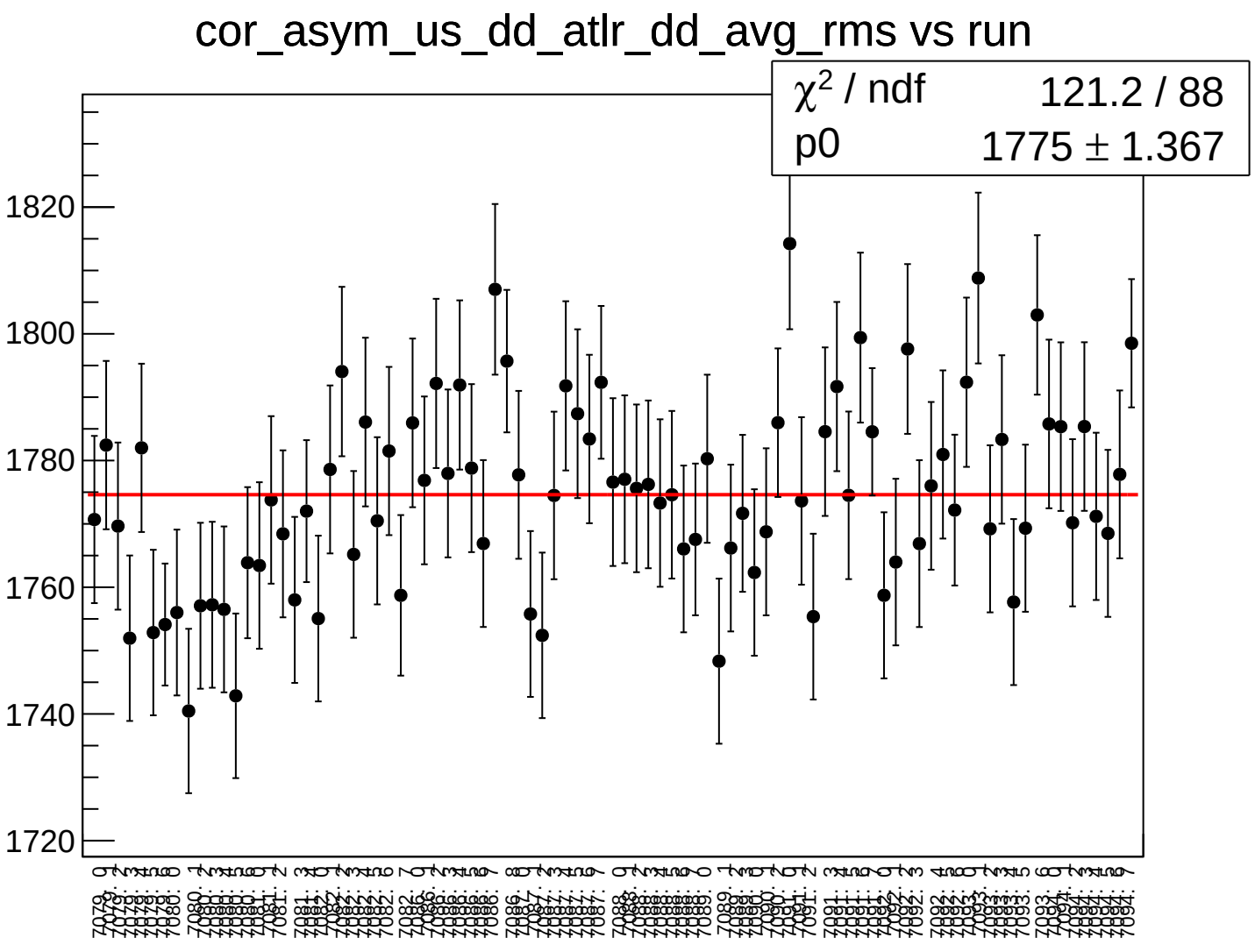

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 121.2 / 88
p0 1775 ± 1.367
1820
1800
1780
1760
1740
1720

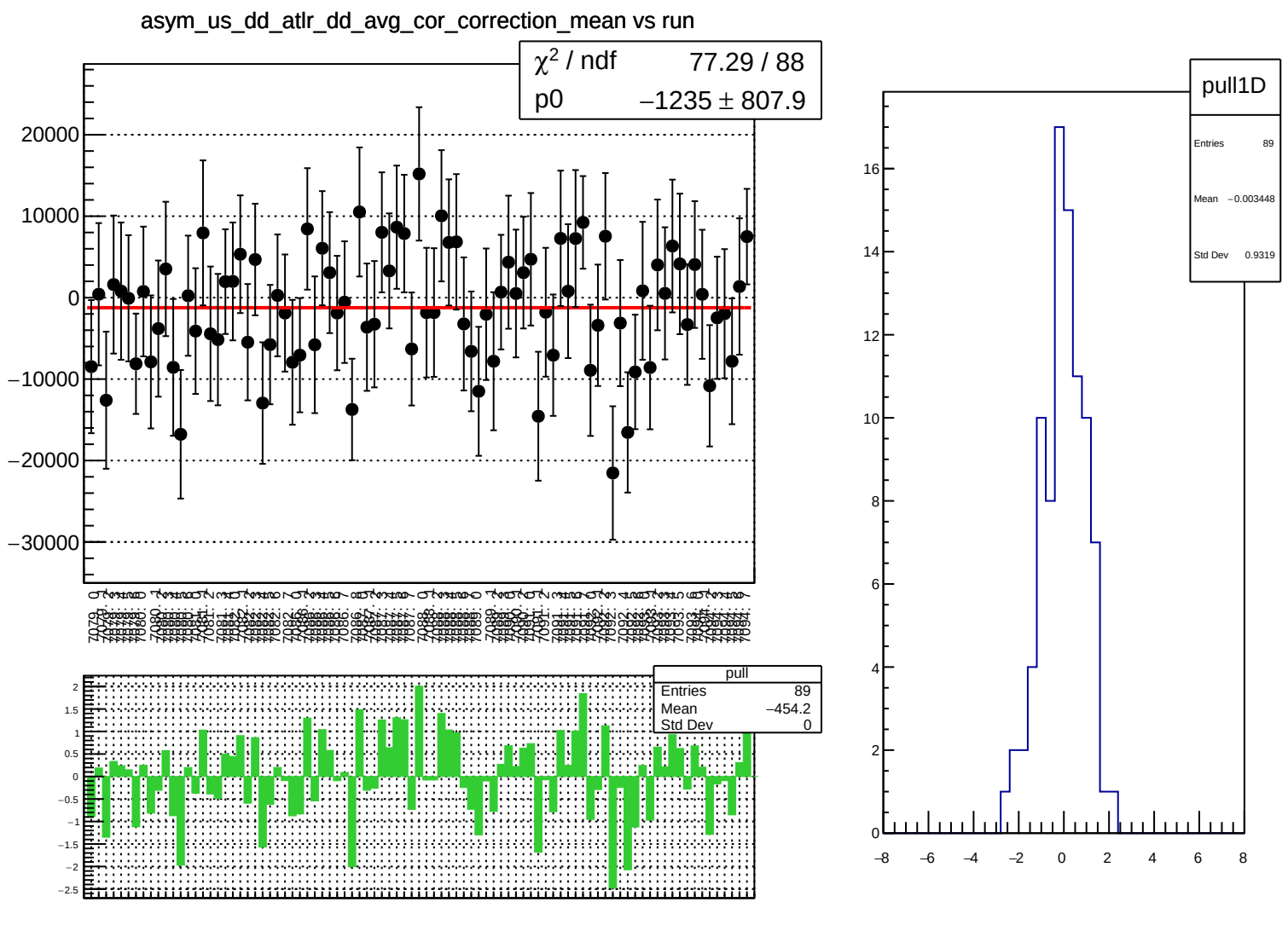

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 77.27 / 88
p0 −1236 ± 807.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −454.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

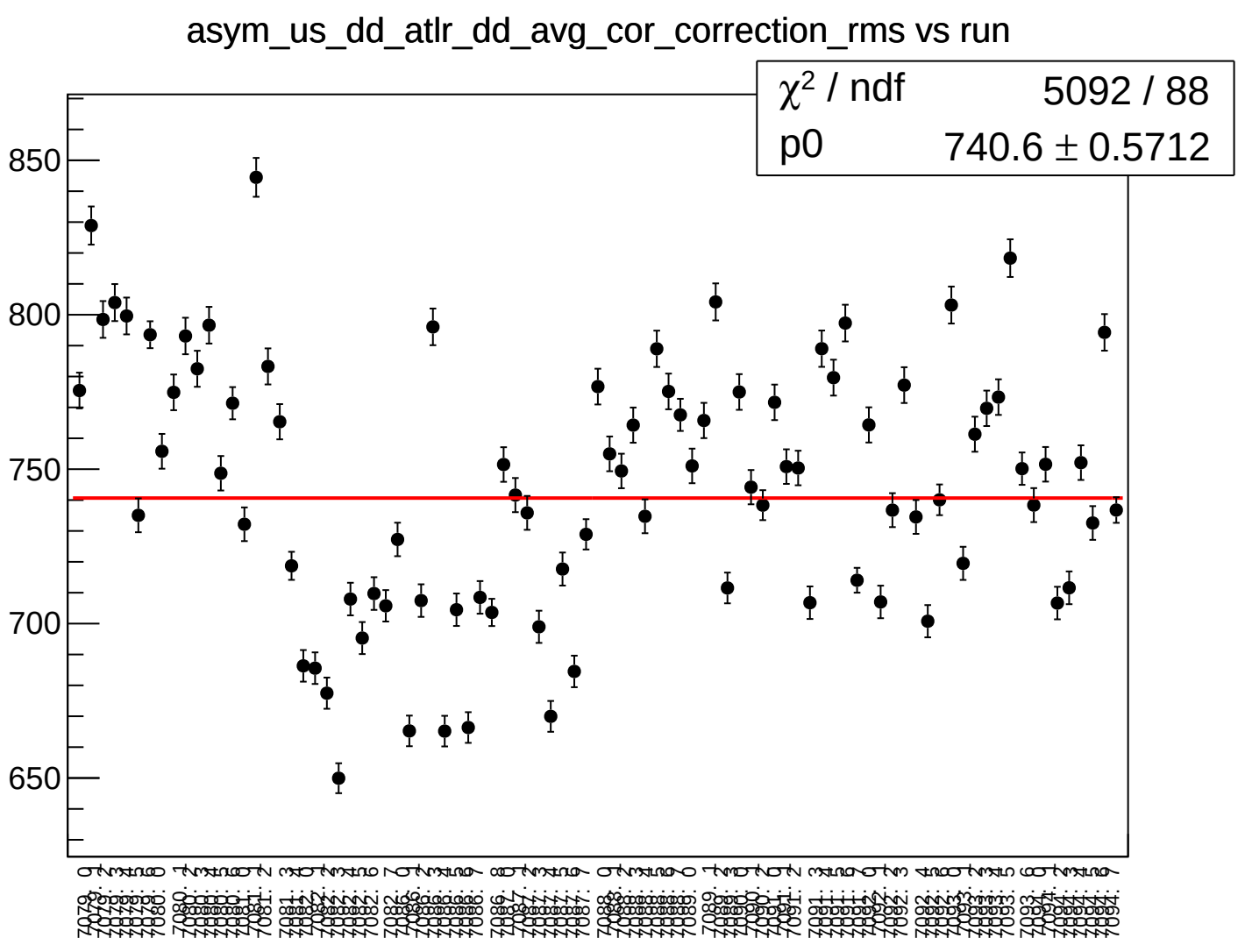

pull1D
Entries 89
Mean −0.003444
Std Dev 0.9318
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

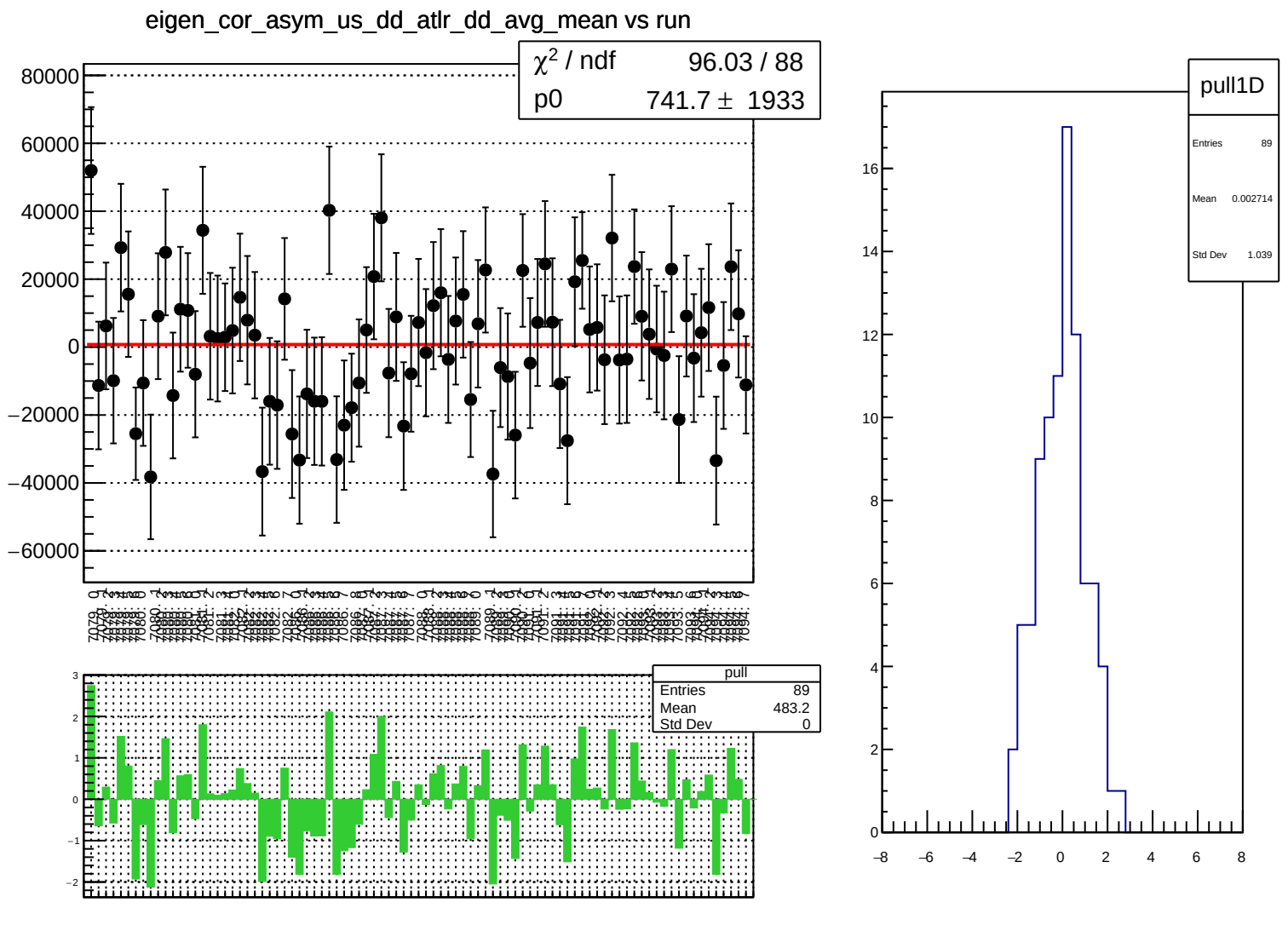

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 5086 / 88
p0 740.6 ± 0.5712
850
800
750
700
650

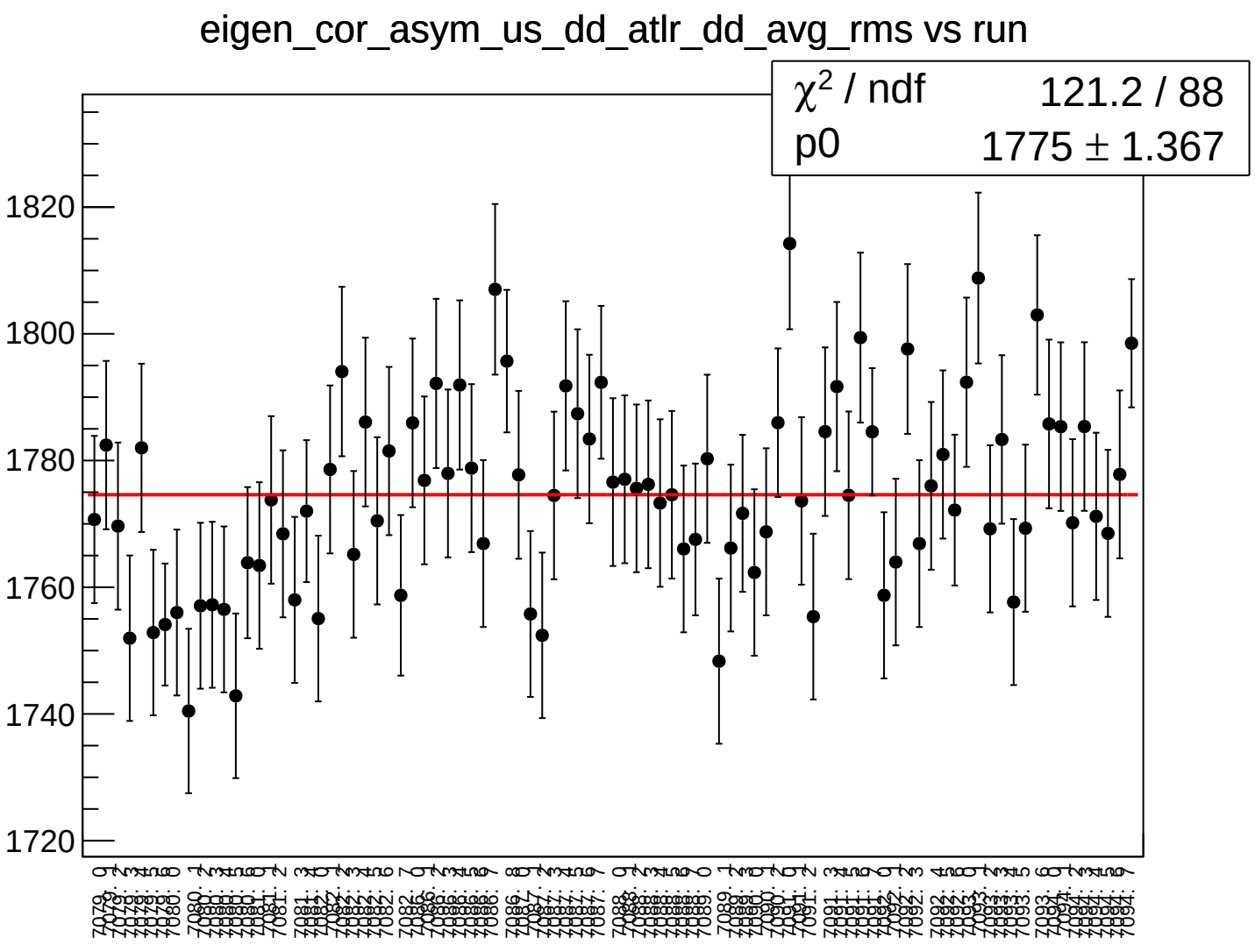

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.03 / 88
p0 741.7 ± 1933
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 483.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.002714
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

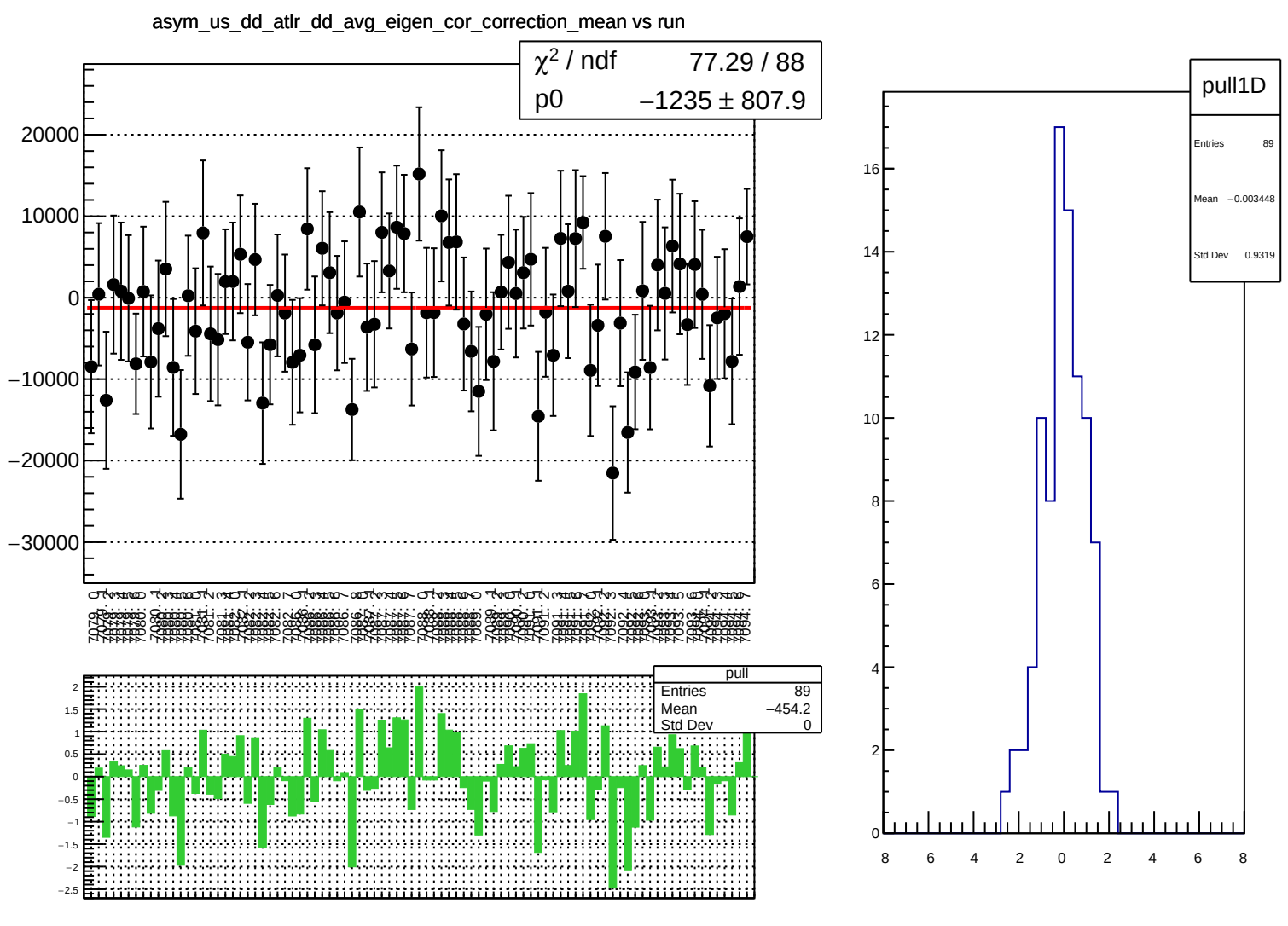

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 121.2 / 88
p0 1775 ± 1.367
1820
1800
1780
1760
1740
1720

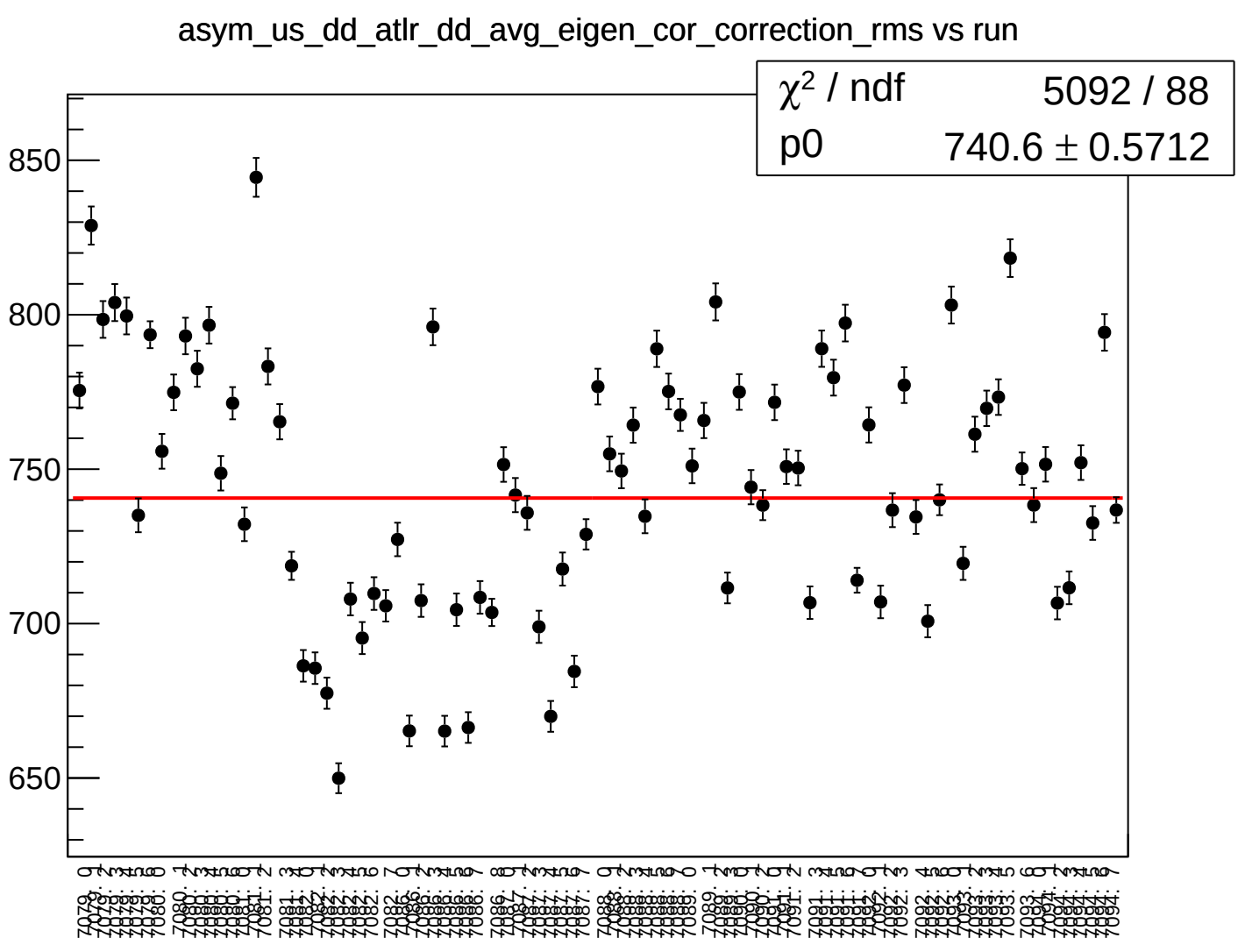

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 77.29 / 88
p0 −1235 ± 807.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −454.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.003448
Std Dev 0.9319
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

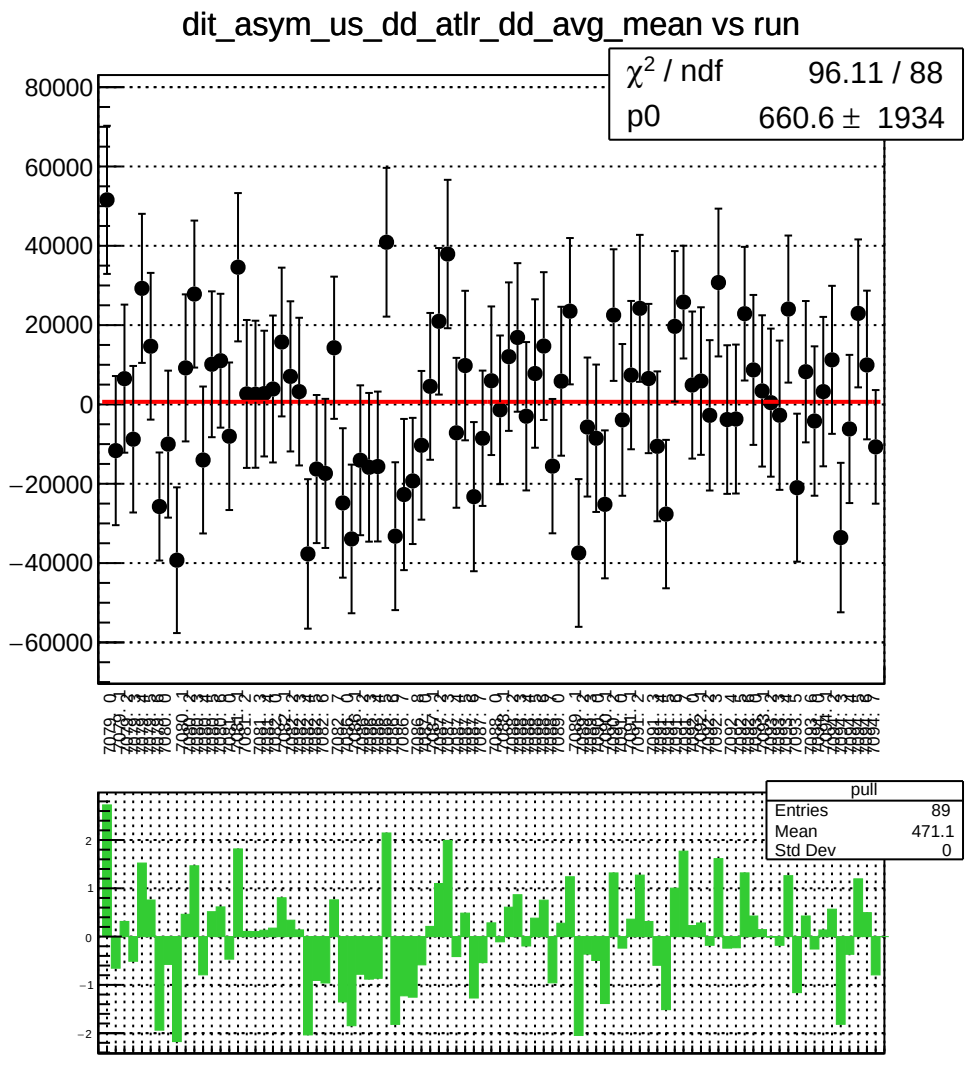

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 5092 / 88
p0 740.6 ± 0.5712
850
800
750
700
650

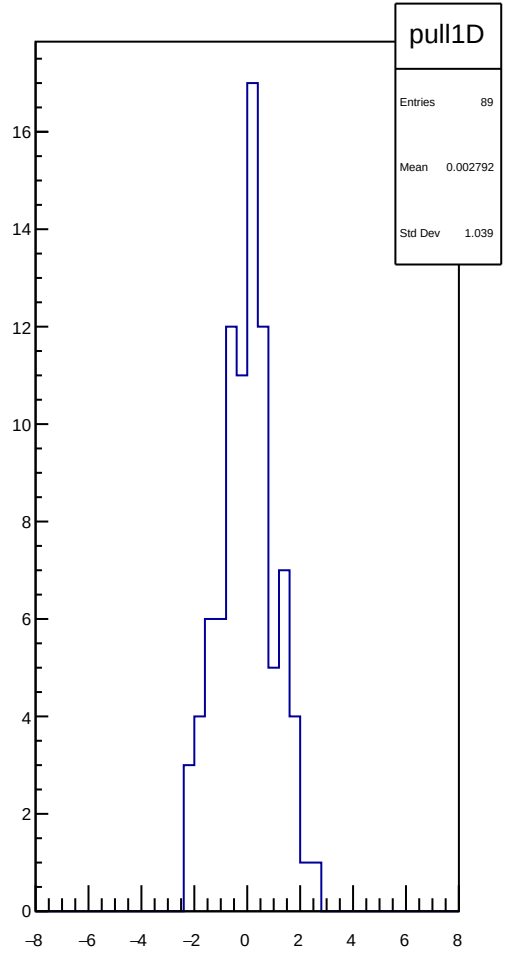

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.03 / 88
p0 741.7 ± 1933
pull
Entries 89
Mean 483.2
Std Dev 0
pull1D
Entries 89
Mean 0.002714
Std Dev 1.039

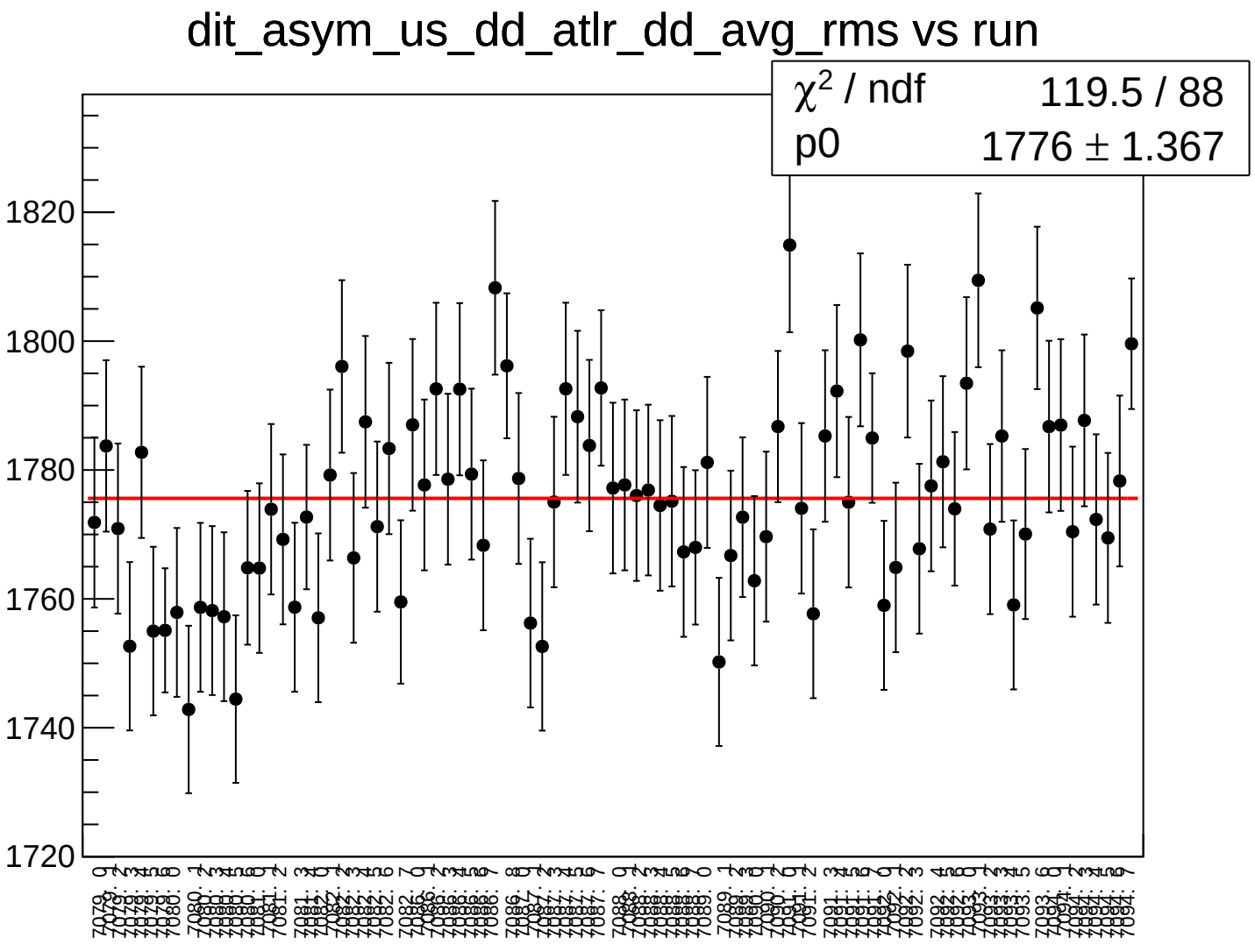

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 121.2 / 88
p0 1775 ± 1.367
1820
1800
1780
1760
1740
1720

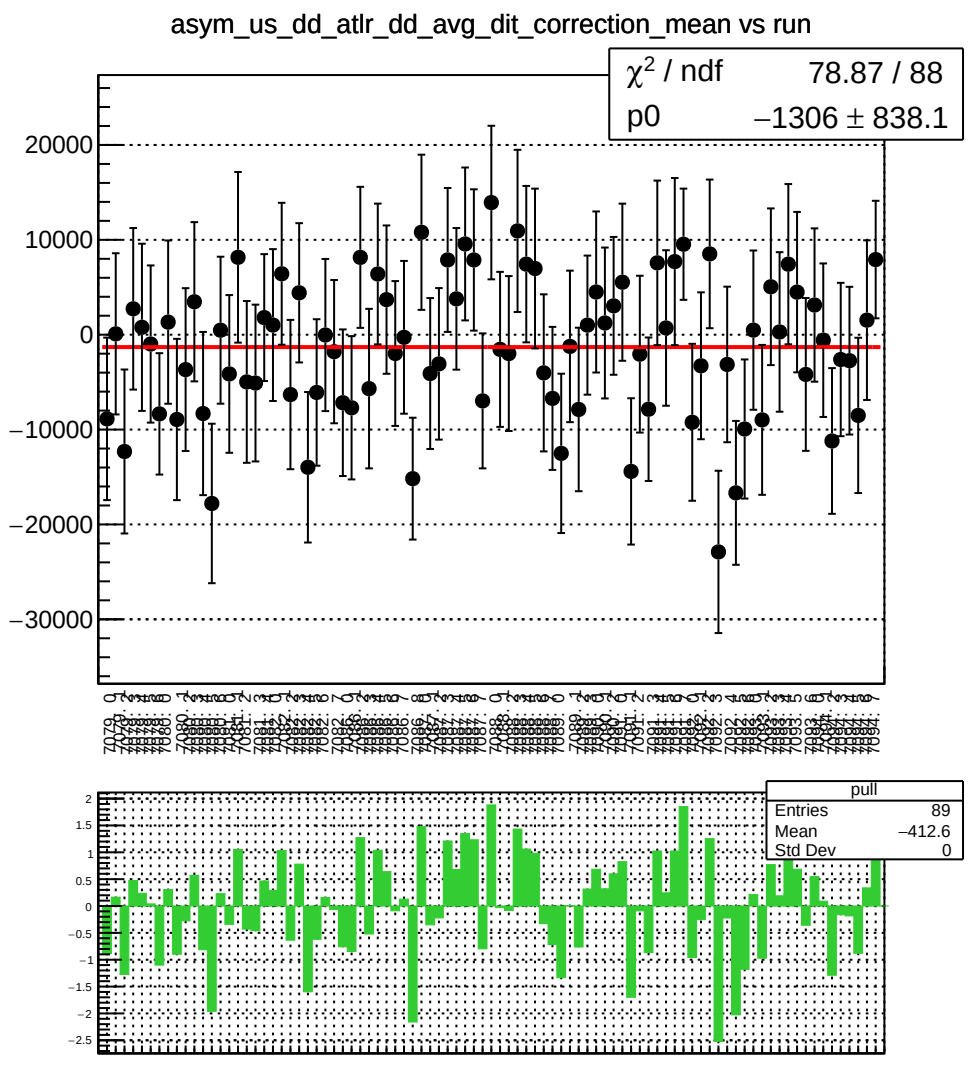

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.29 / 88
p0 −1235 ± 807.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −454.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.003448
Std Dev 0.9319
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

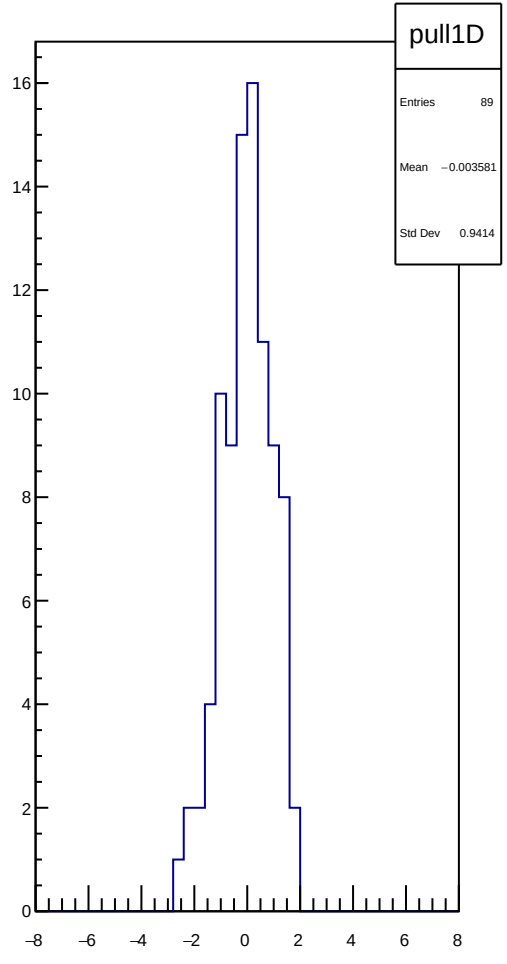

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5092 / 88
p0 740.6 ± 0.5712
850
800
750
700
650

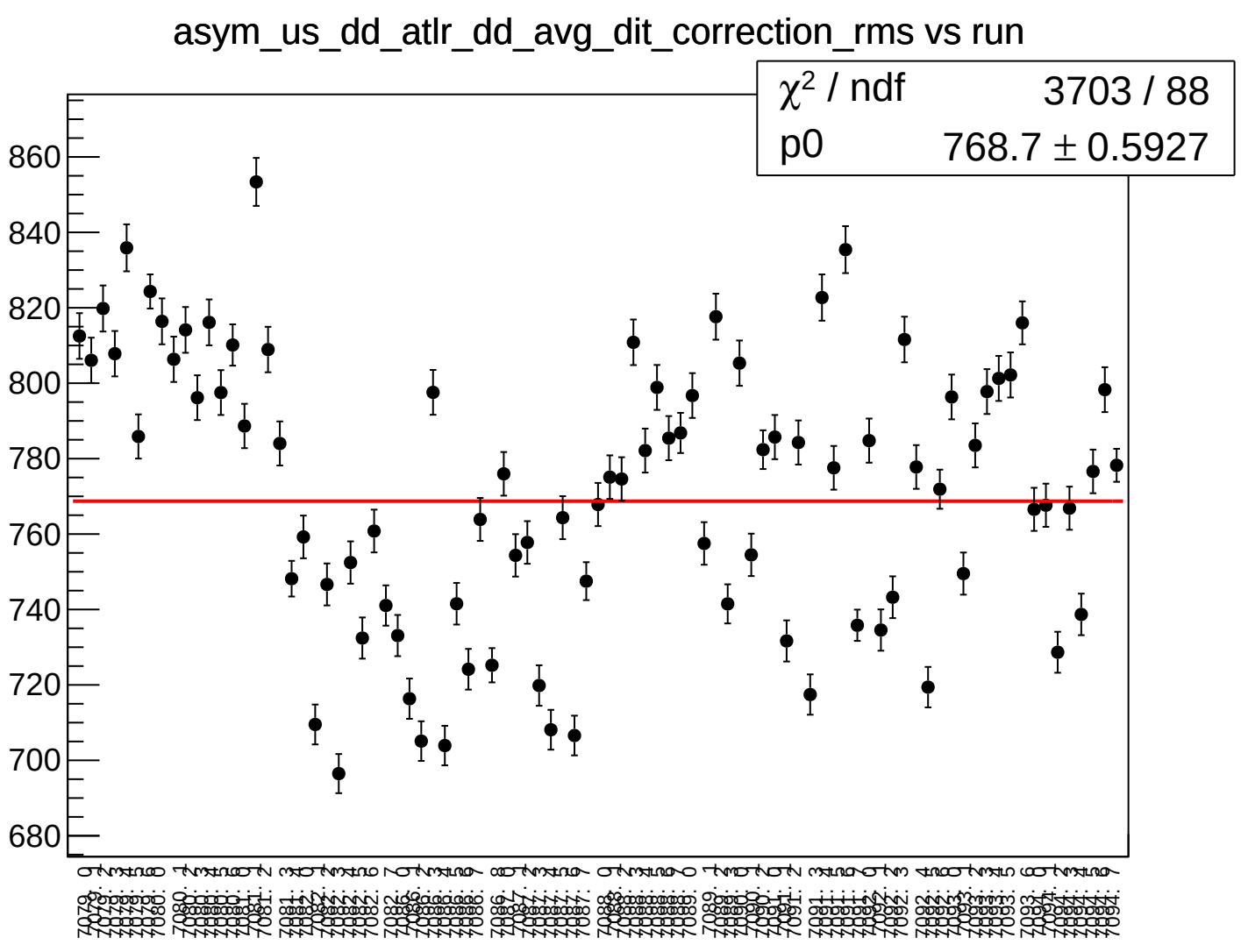

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.11 / 88
p0 660.6 ± 1934
pull
Entries 89
Mean 471.1
Std Dev 0

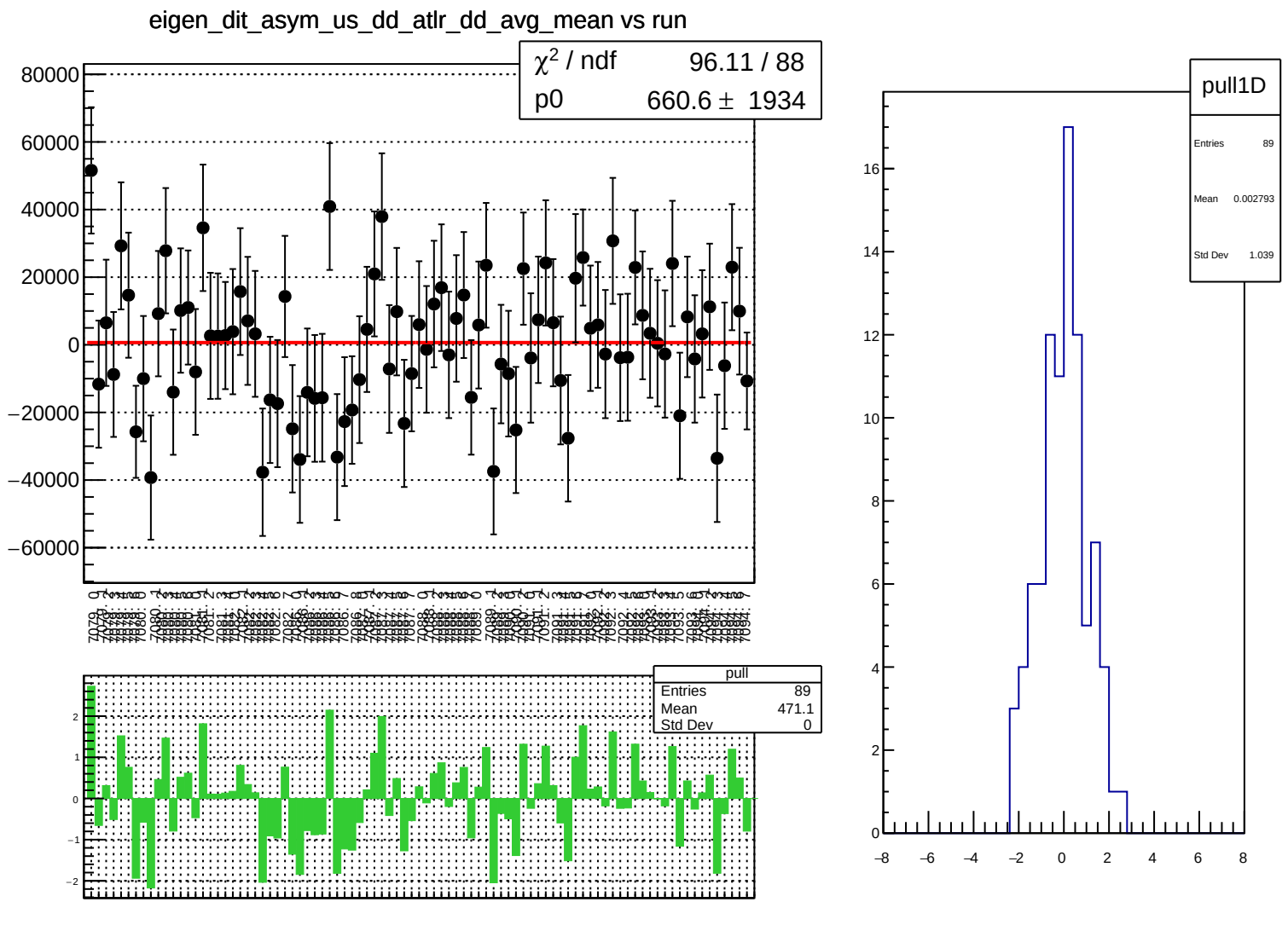

pull1D
Entries 89
Mean 0.002792
Std Dev 1.039

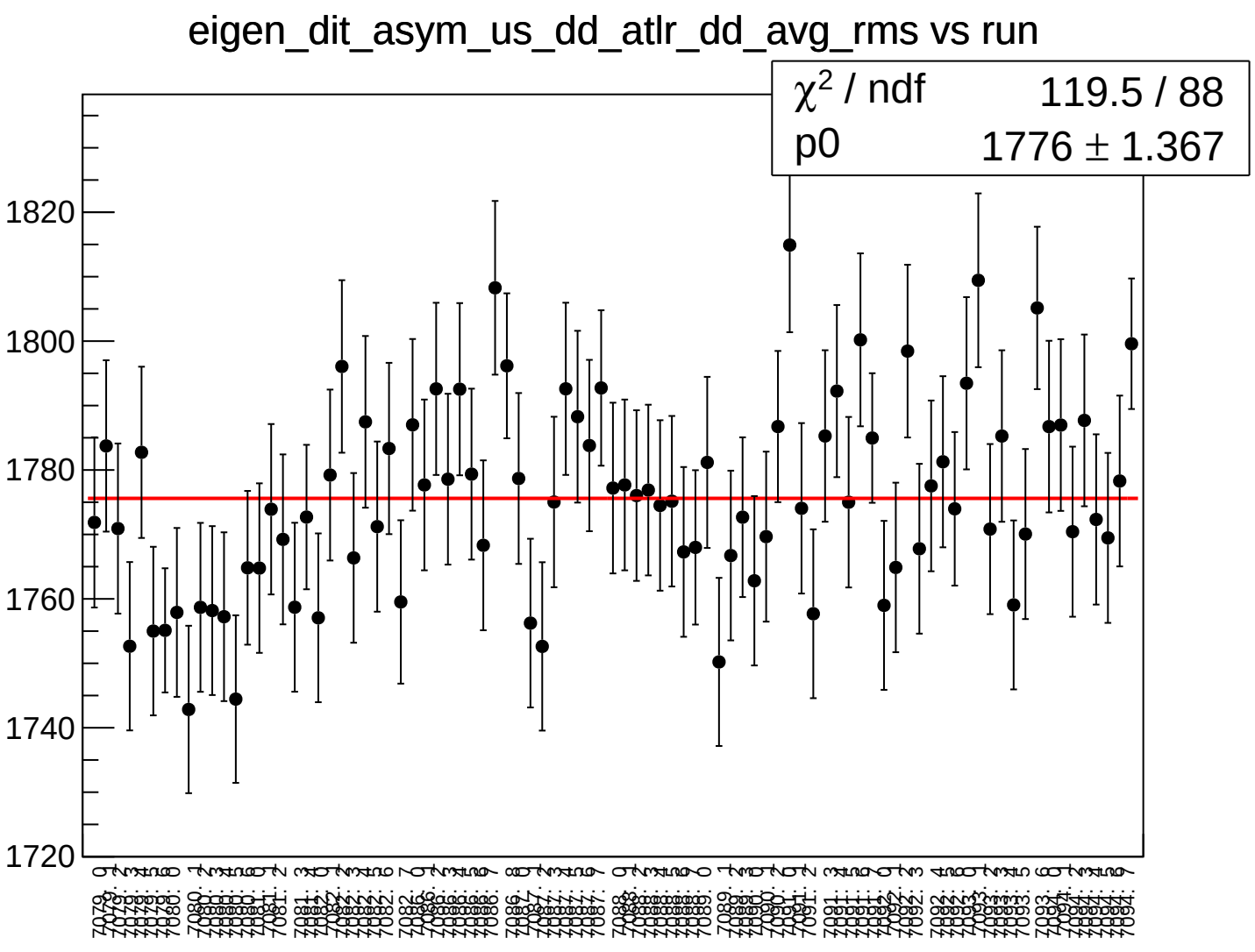

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 119.5 / 88
p0 1776 ± 1.367
1820
1800
1780
1760
1740
1720

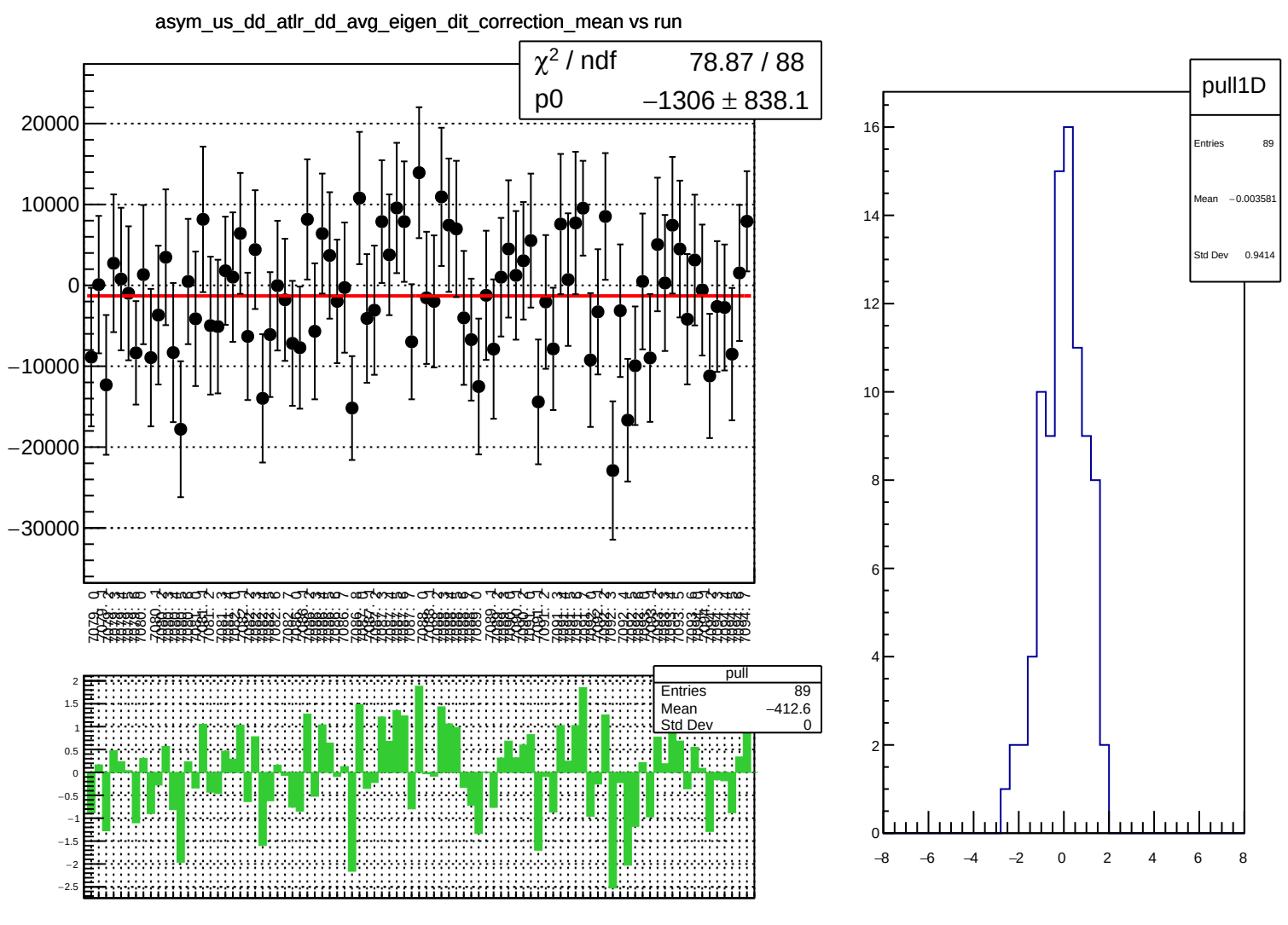

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 78.87 / 88
p0 −1306 ± 838.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −412.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

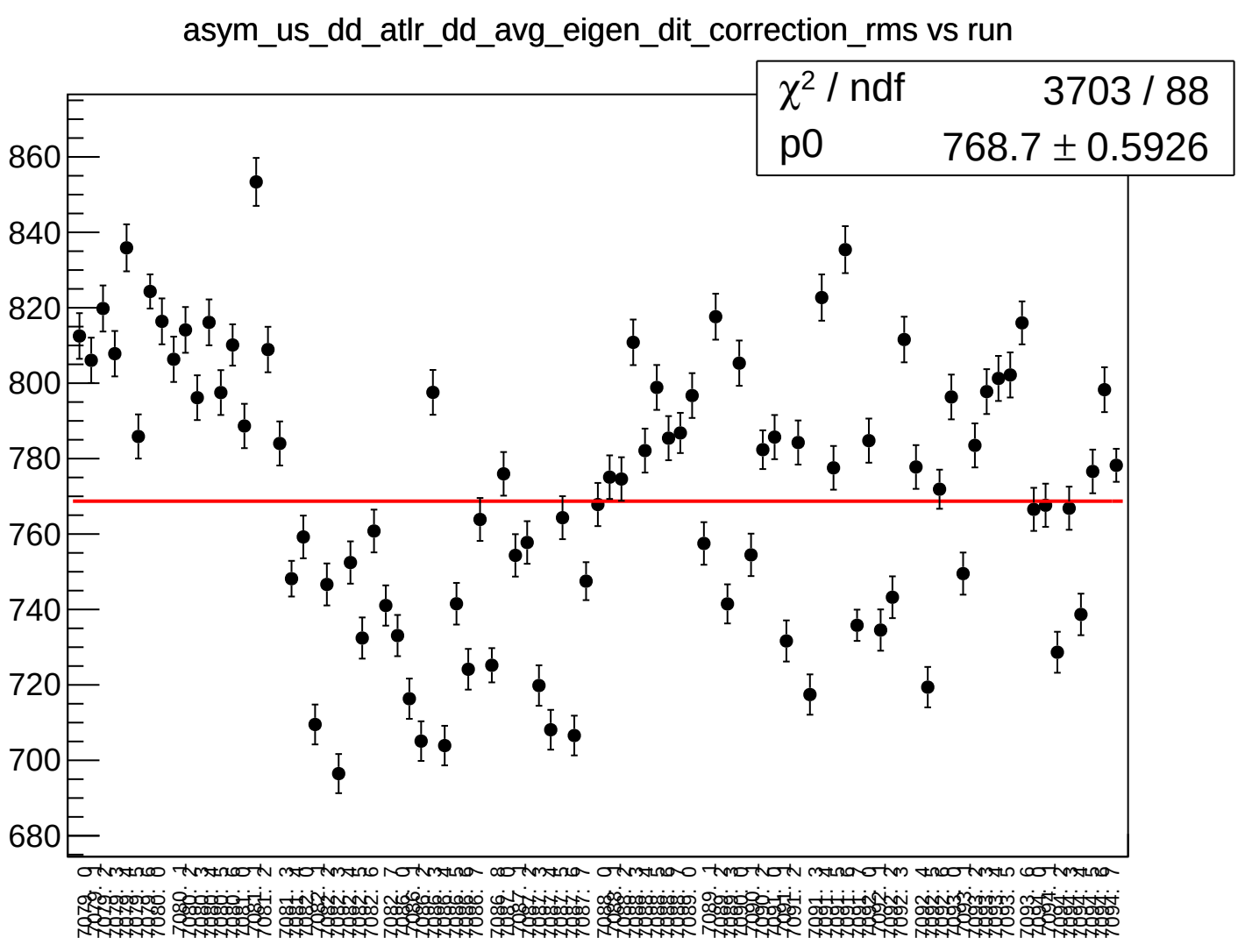

pull1D
Entries 89
Mean −0.003581
Std Dev 0.9414
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

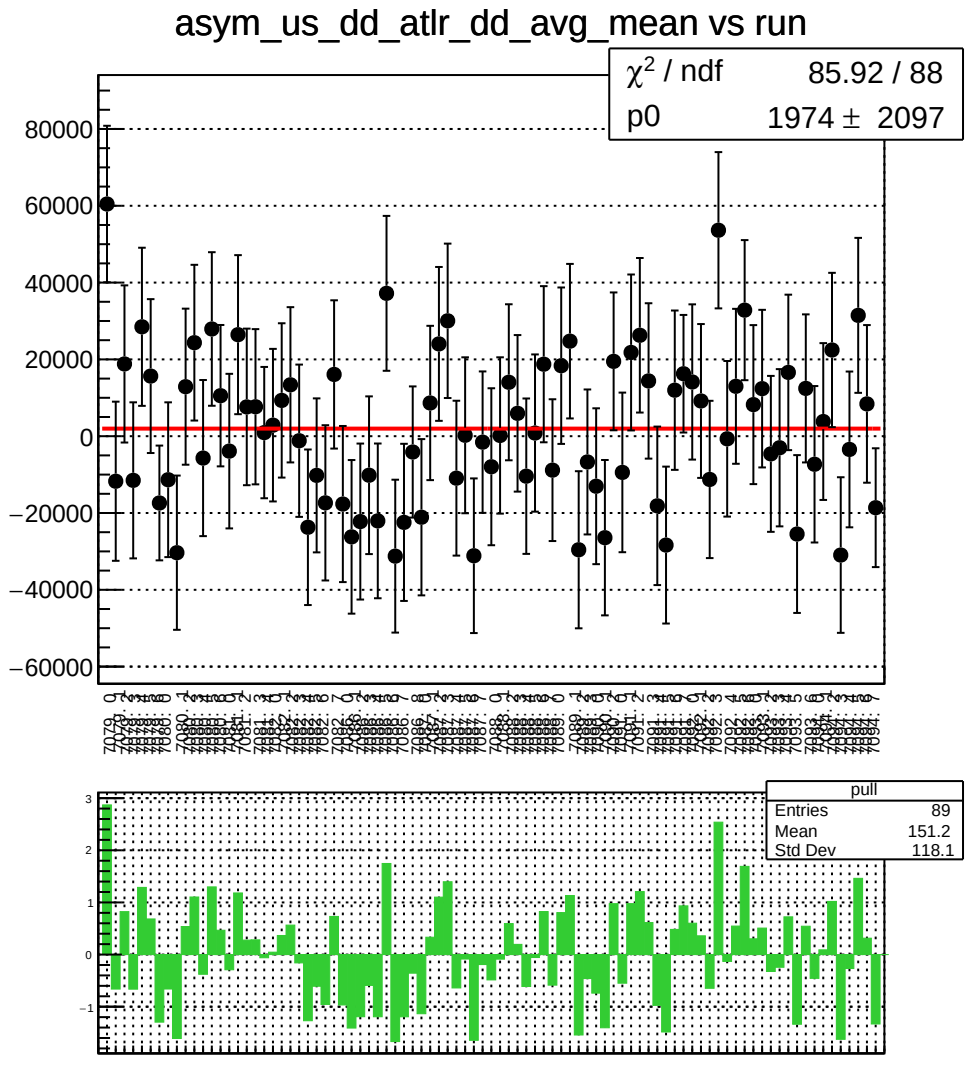

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3703 / 88
p0 768.7 ± 0.5927
860
840
820
800
780
760
740
720
700
680

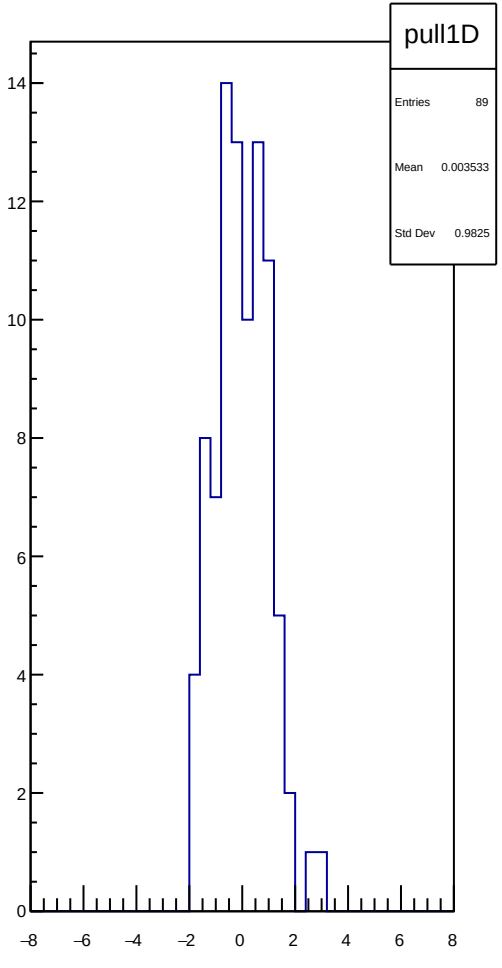

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.11 / 88
p0 660.6 ± 1934
pull
Entries 89
Mean 471.1
Std Dev 0
pull1D
Entries 89
Mean 0.002793
Std Dev 1.039

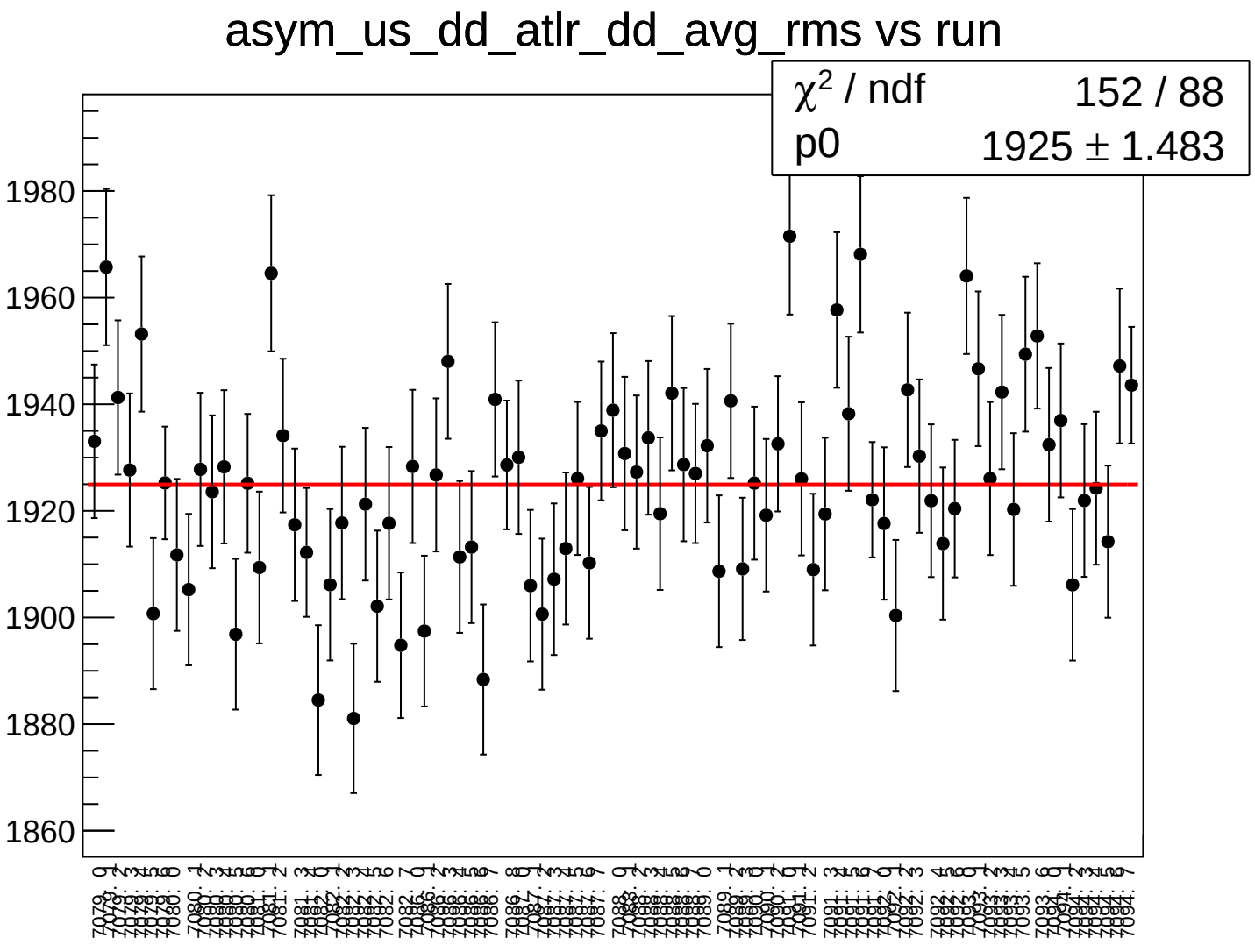

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 119.5 / 88
p0 1776 ± 1.367
1820
1800
1780
1760
1740
1720

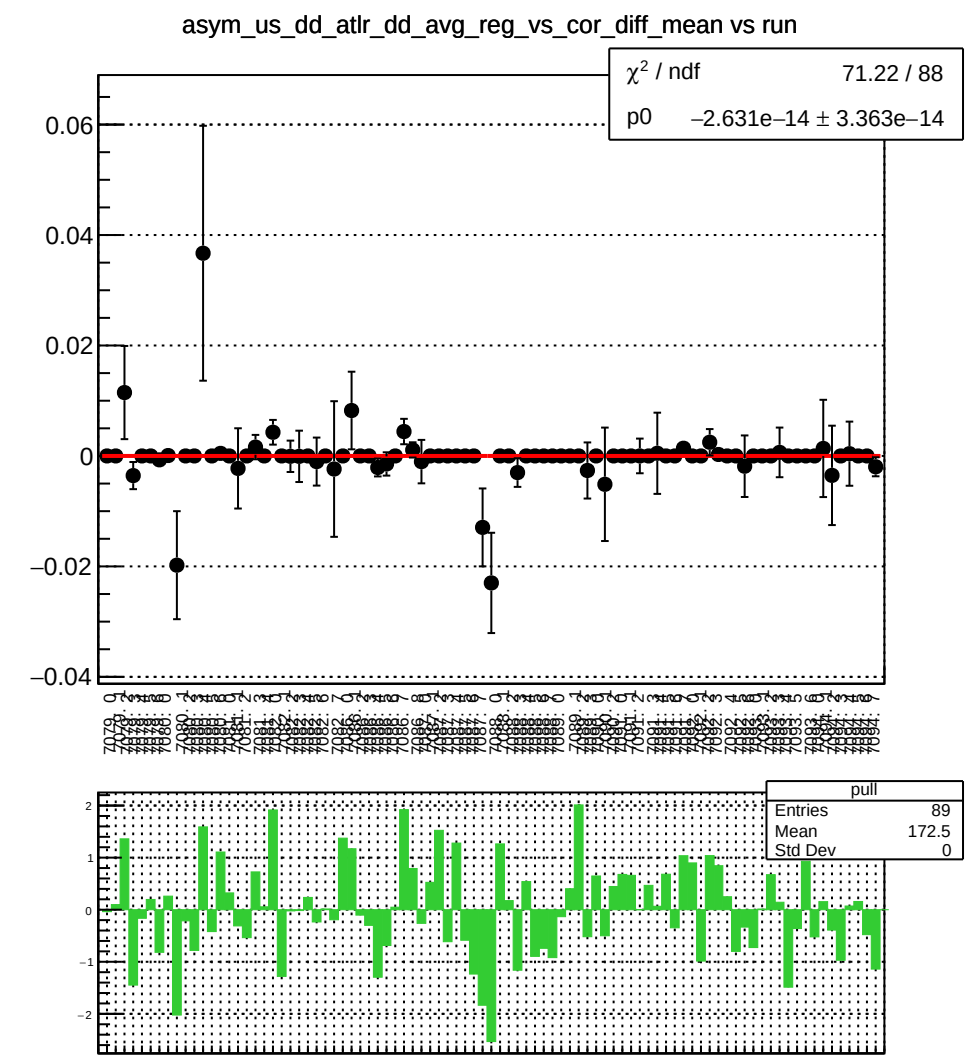

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.87 / 88
p0 −1306 ± 838.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −412.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.003581
Std Dev 0.9414
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

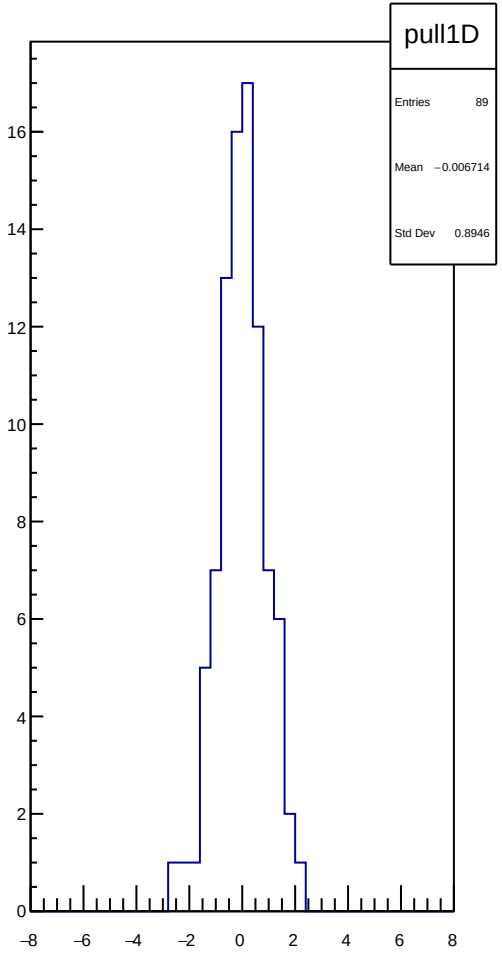

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3703 / 88
p0 768.7 ± 0.5926
860
840
820
800
780
760
740
720
700
680

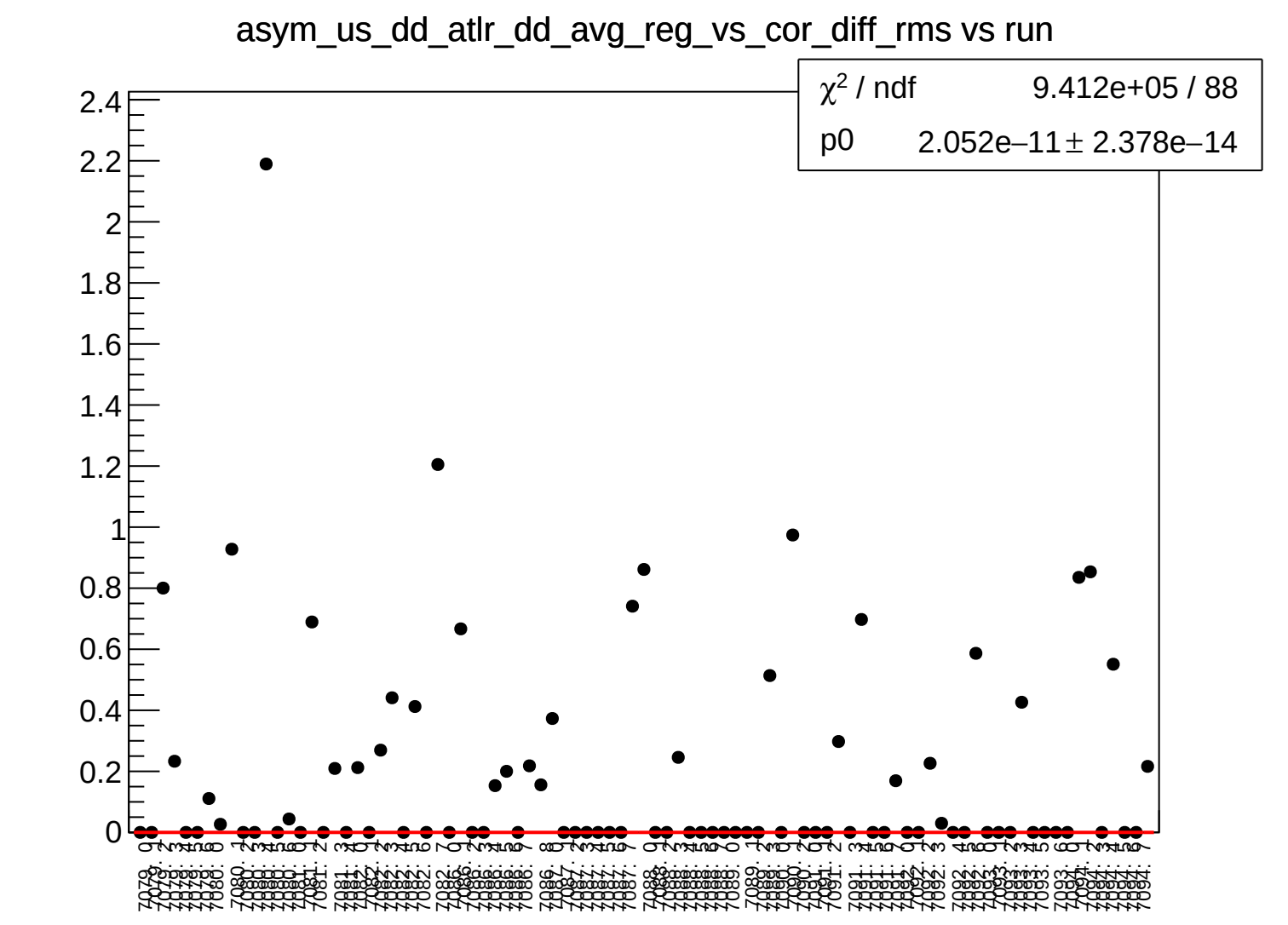

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.92 / 88
p0 1974 ± 2097
pull
Entries 89
Mean 151.2
Std Dev 118.1

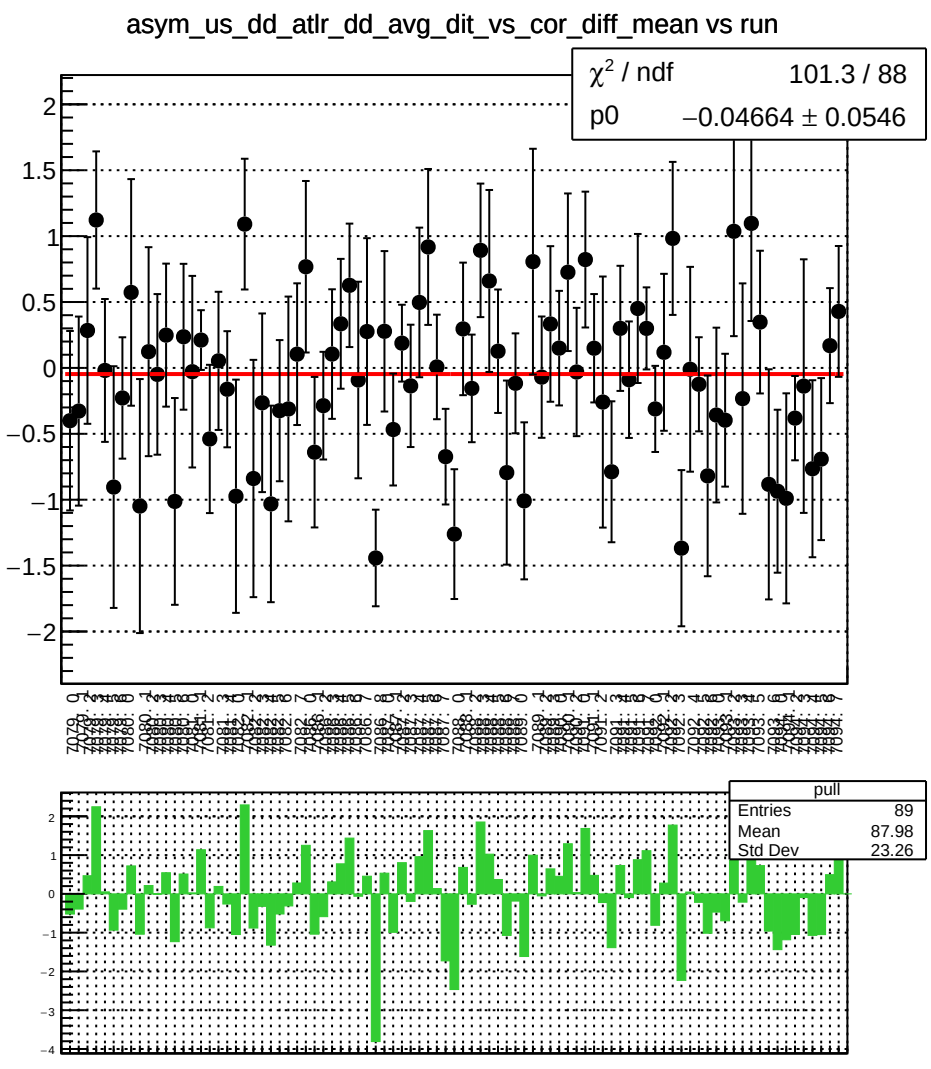

pull1D
Entries 89
Mean 0.003533
Std Dev 0.9825

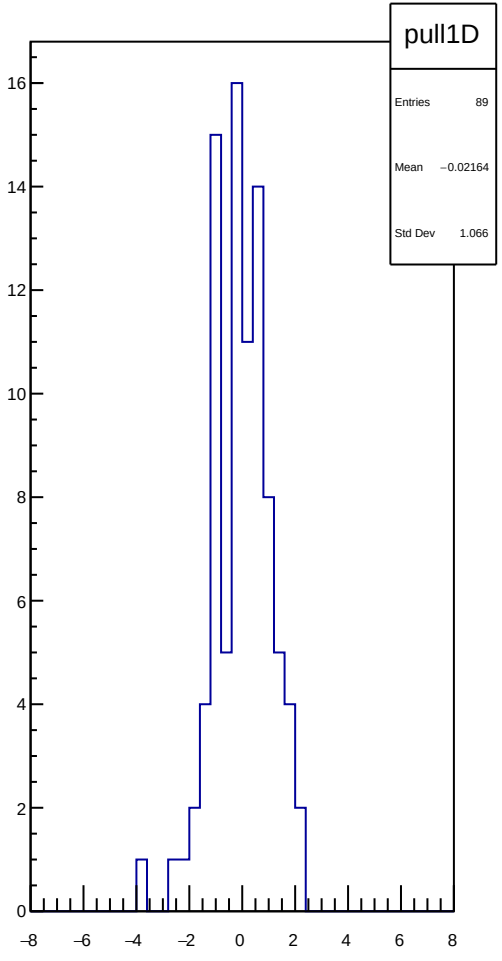

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 152 / 88
p0 1925 ± 1.483
1980
1960
1940
1920
1900
1880
1860

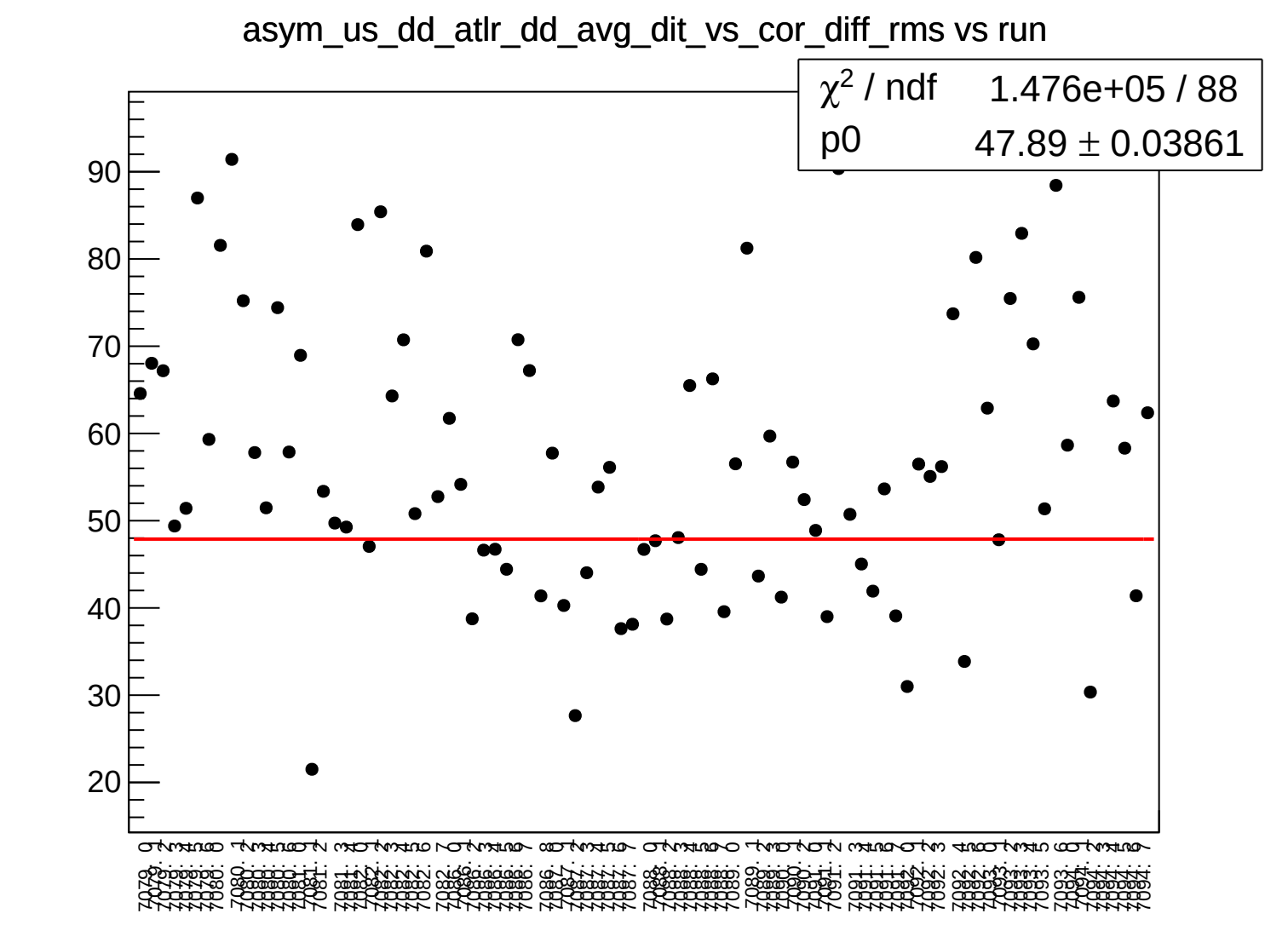

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.22 / 88
p0 −2.631e−14 ± 3.363e−14
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 172.5
Std Dev 0
2
1
0
−1
−2

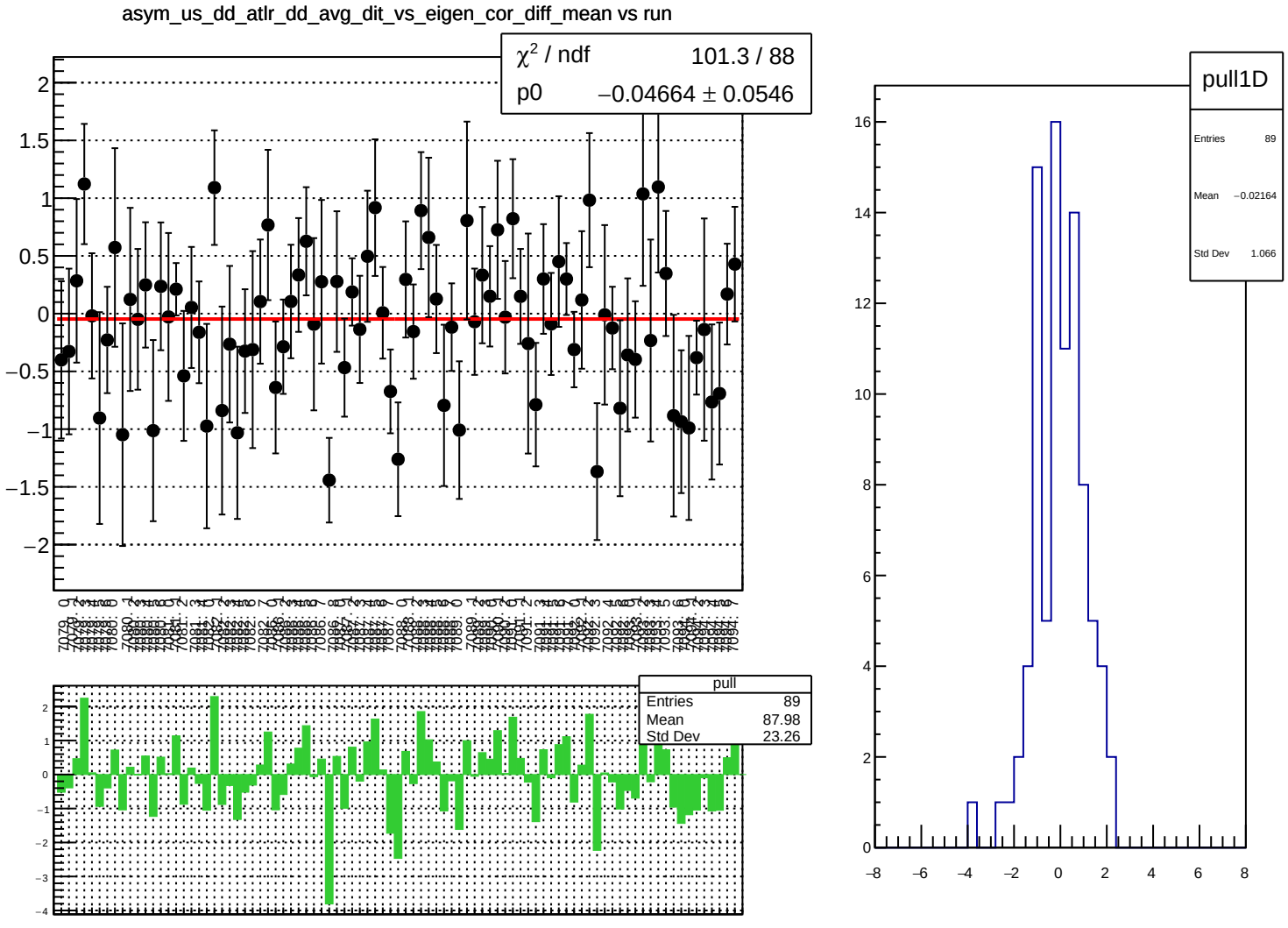

pull1D
Entries 89
Mean −0.006714
Std Dev 0.8946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

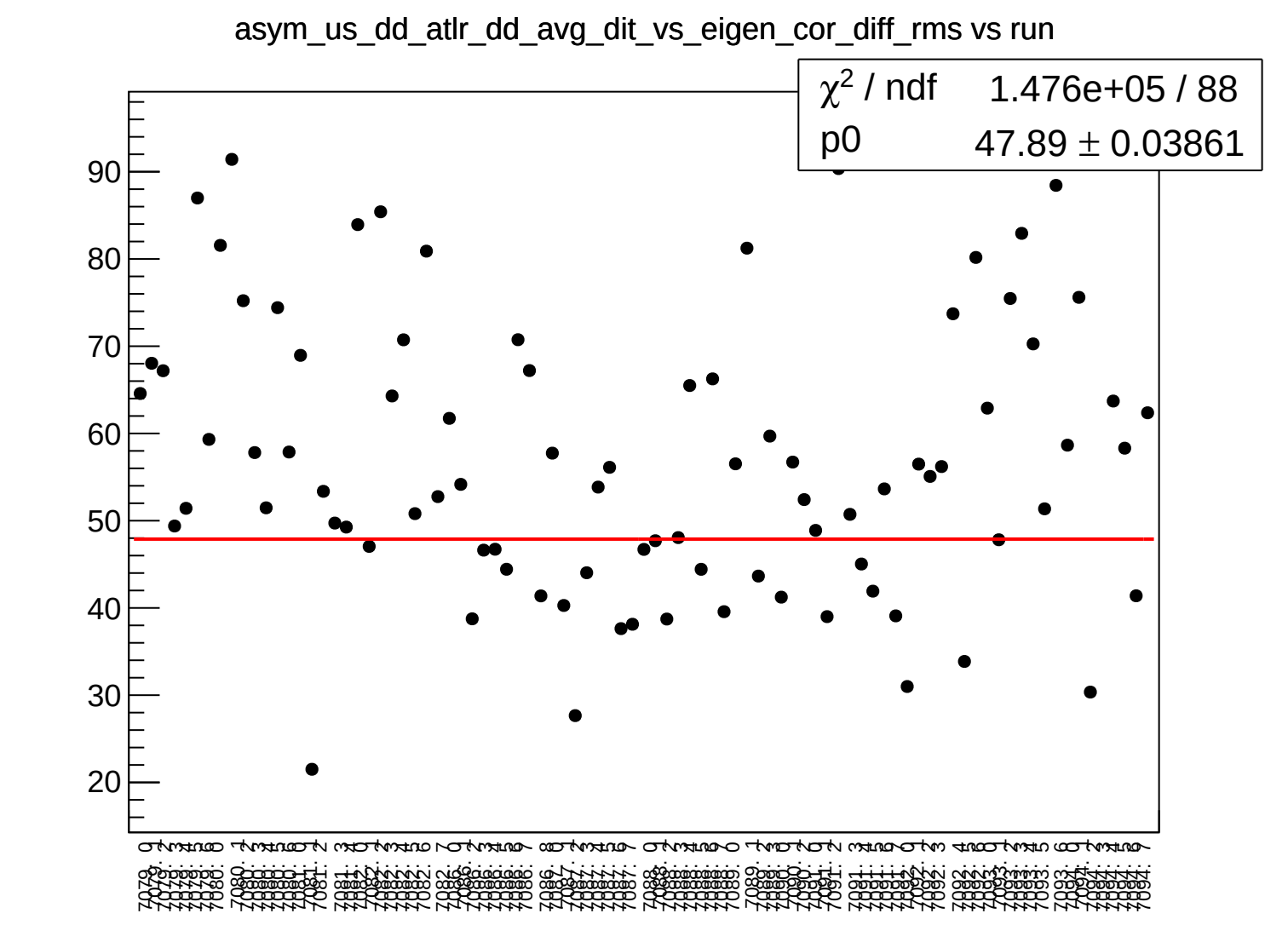

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.412e+05 / 88
p0 2.052e−11 ± 2.378e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

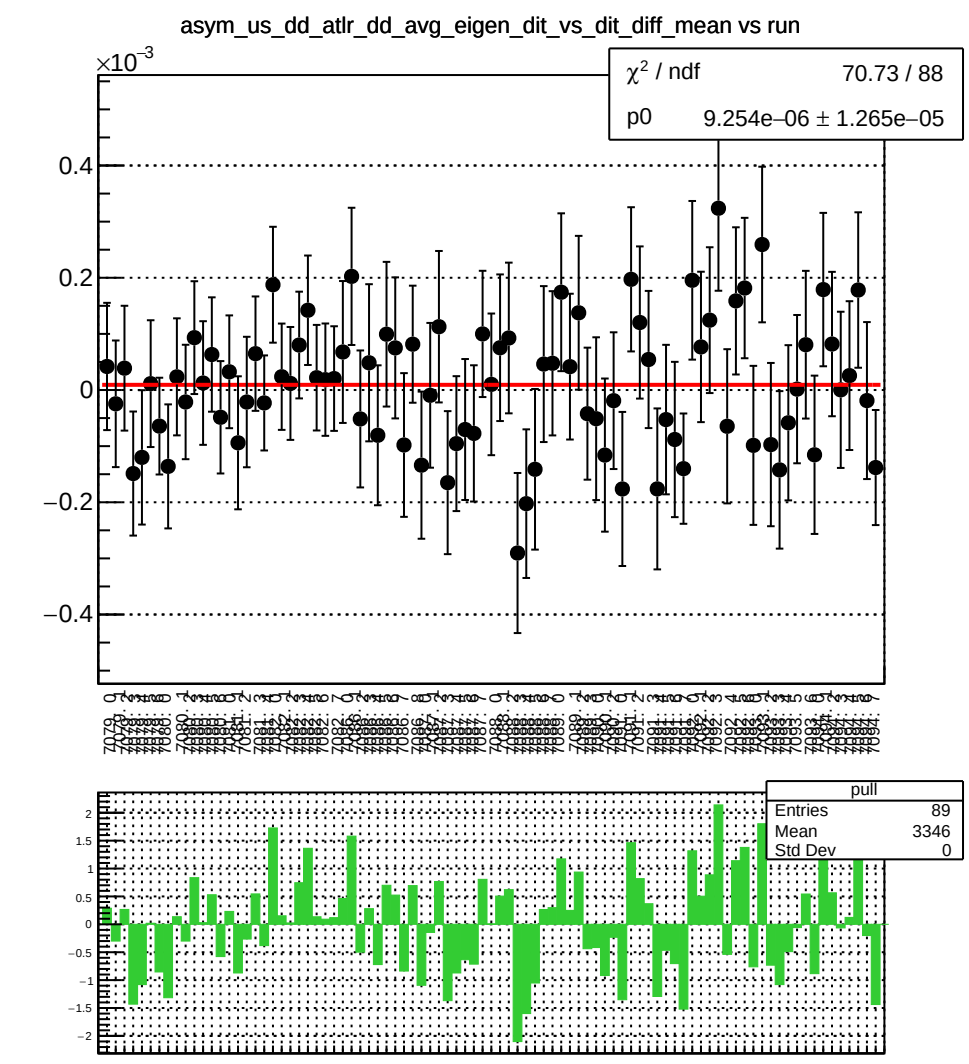

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 88
p0 −0.04664 ± 0.0546
pull
Entries 89
Mean 87.98
Std Dev 23.26

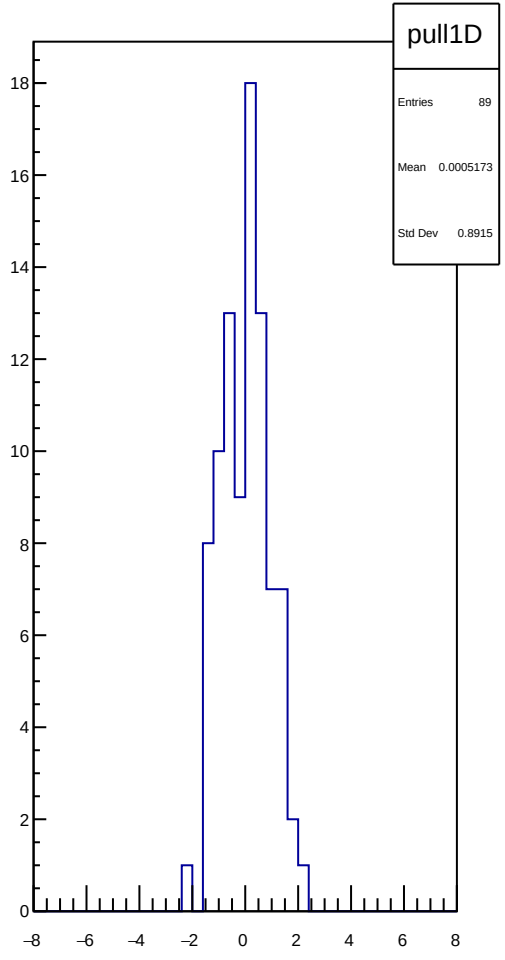

pull1D
Entries 89
Mean −0.02164
Std Dev 1.066

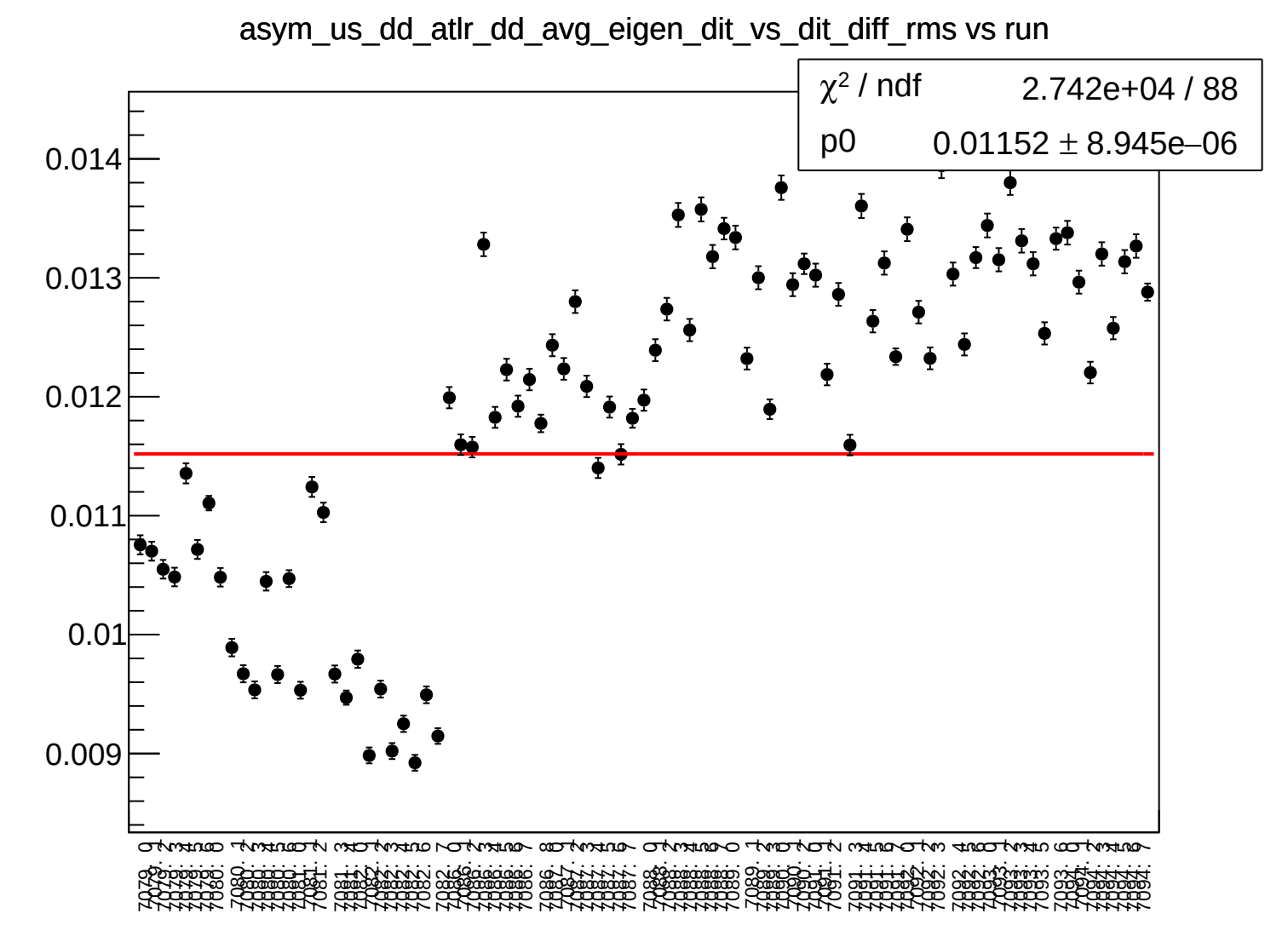

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.476e+05 / 88
p0 47.89 ± 0.03861
90
80
70
60
50
40
30
20

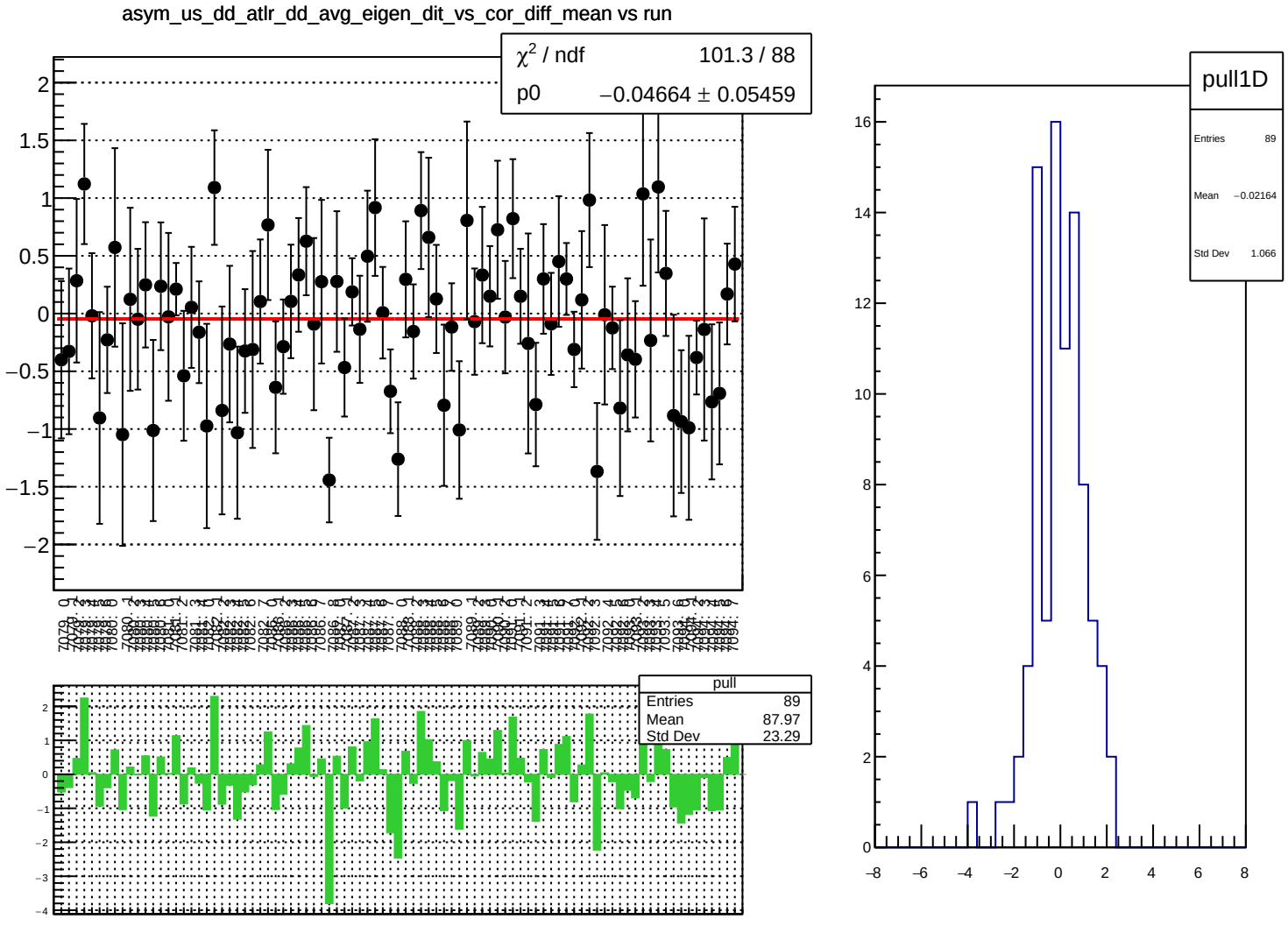

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 88
p0 −0.04664 ± 0.0546
pull
Entries 89
Mean 87.98
Std Dev 23.26
pull1D
Entries 89
Mean −0.02164
Std Dev 1.066

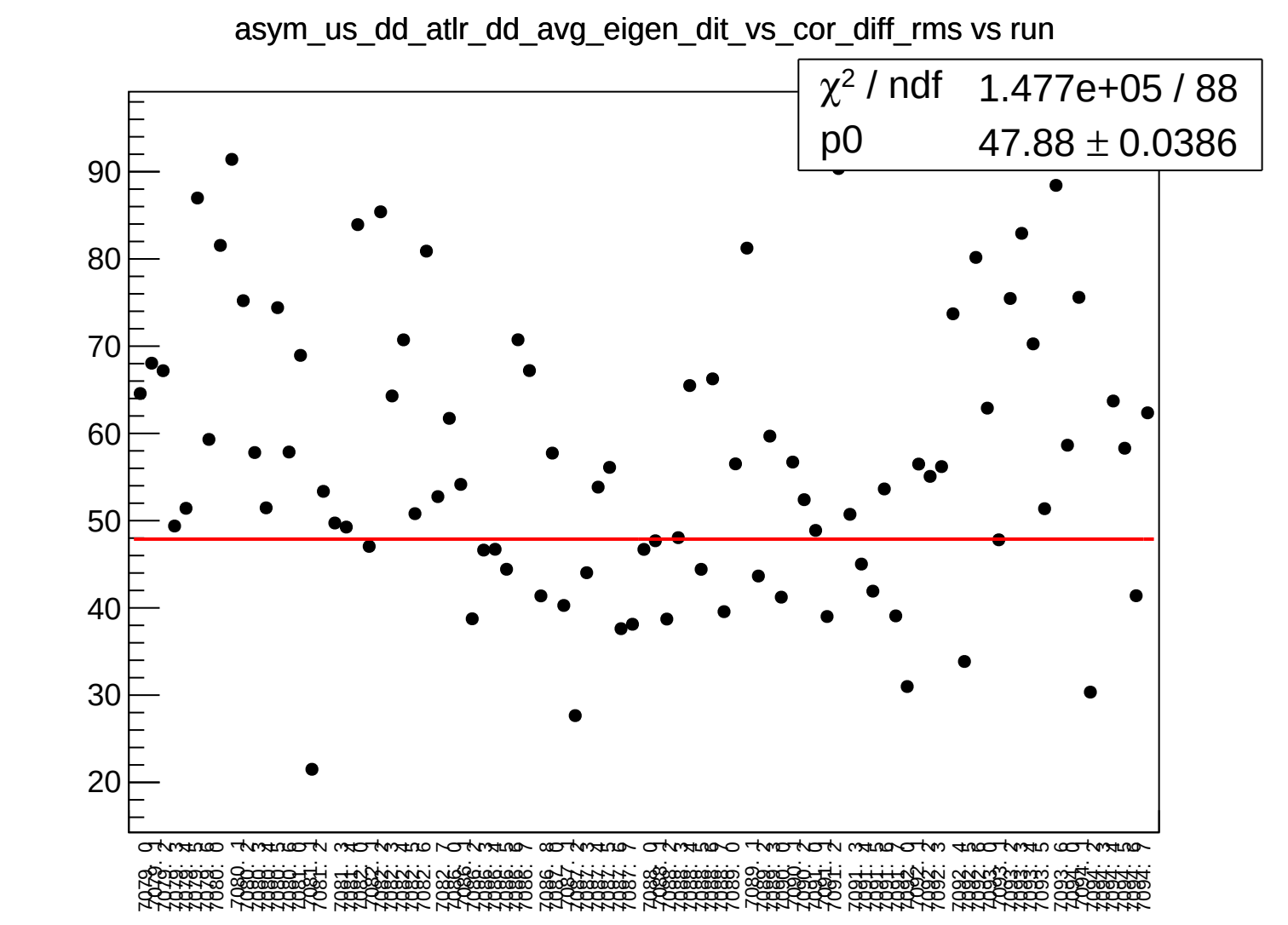

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.476e+05 / 88
p0 47.89 ± 0.03861
90
80
70
60
50
40
30
20

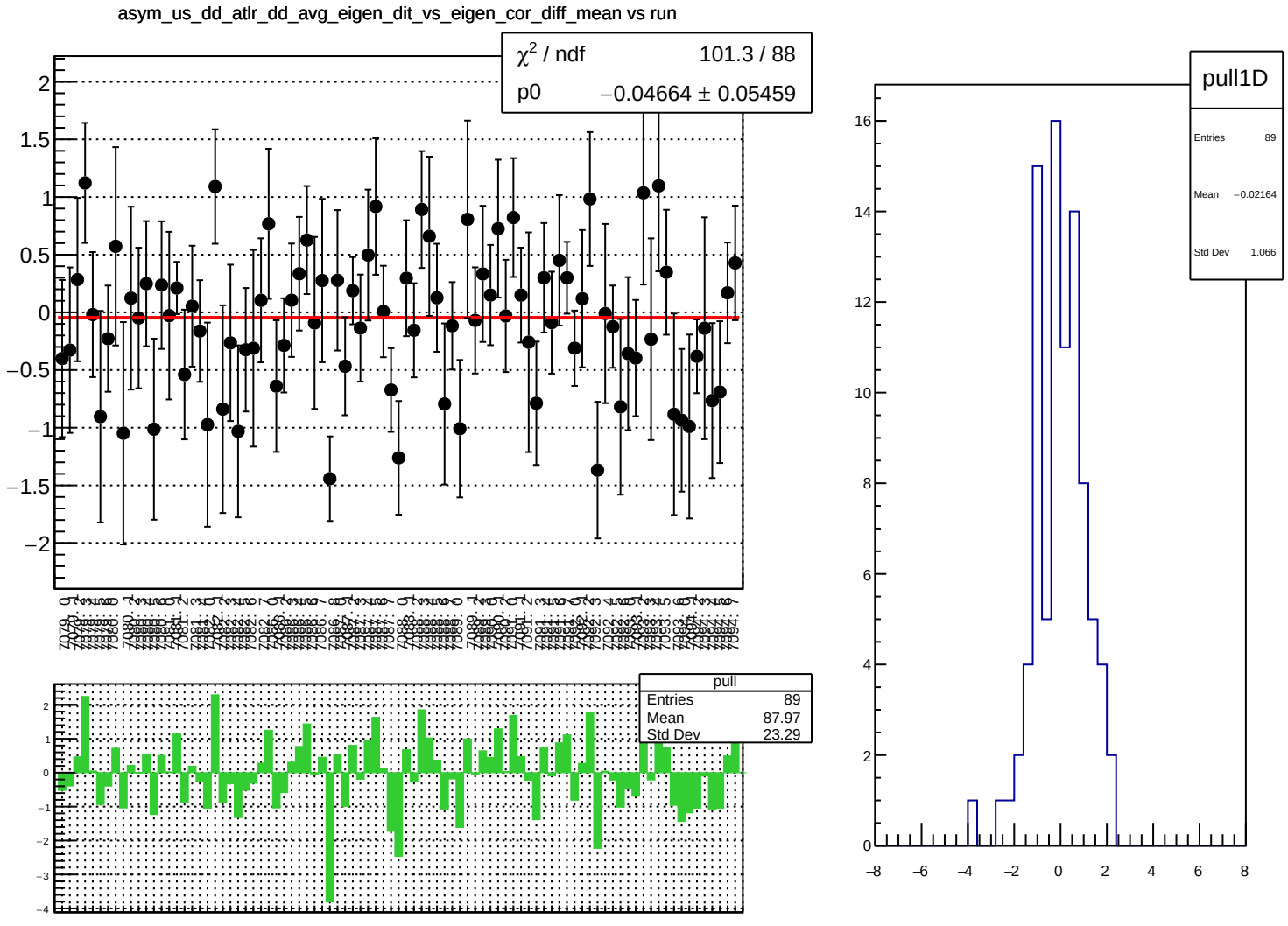

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.73 / 88
p0 9.254e−06 ± 1.265e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 3346
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

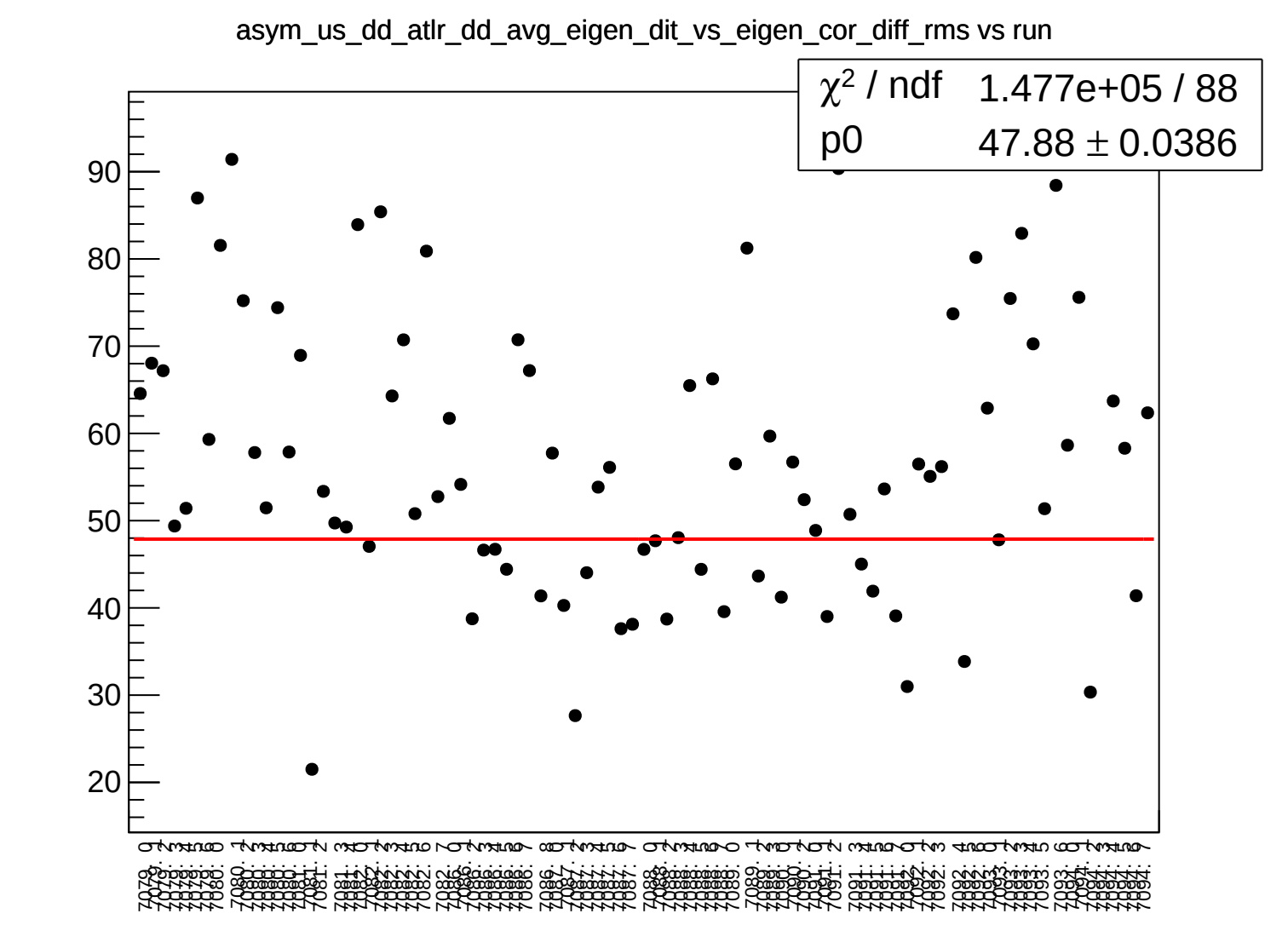

pull1D
Entries 89
Mean 0.0005173
Std Dev 0.8915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

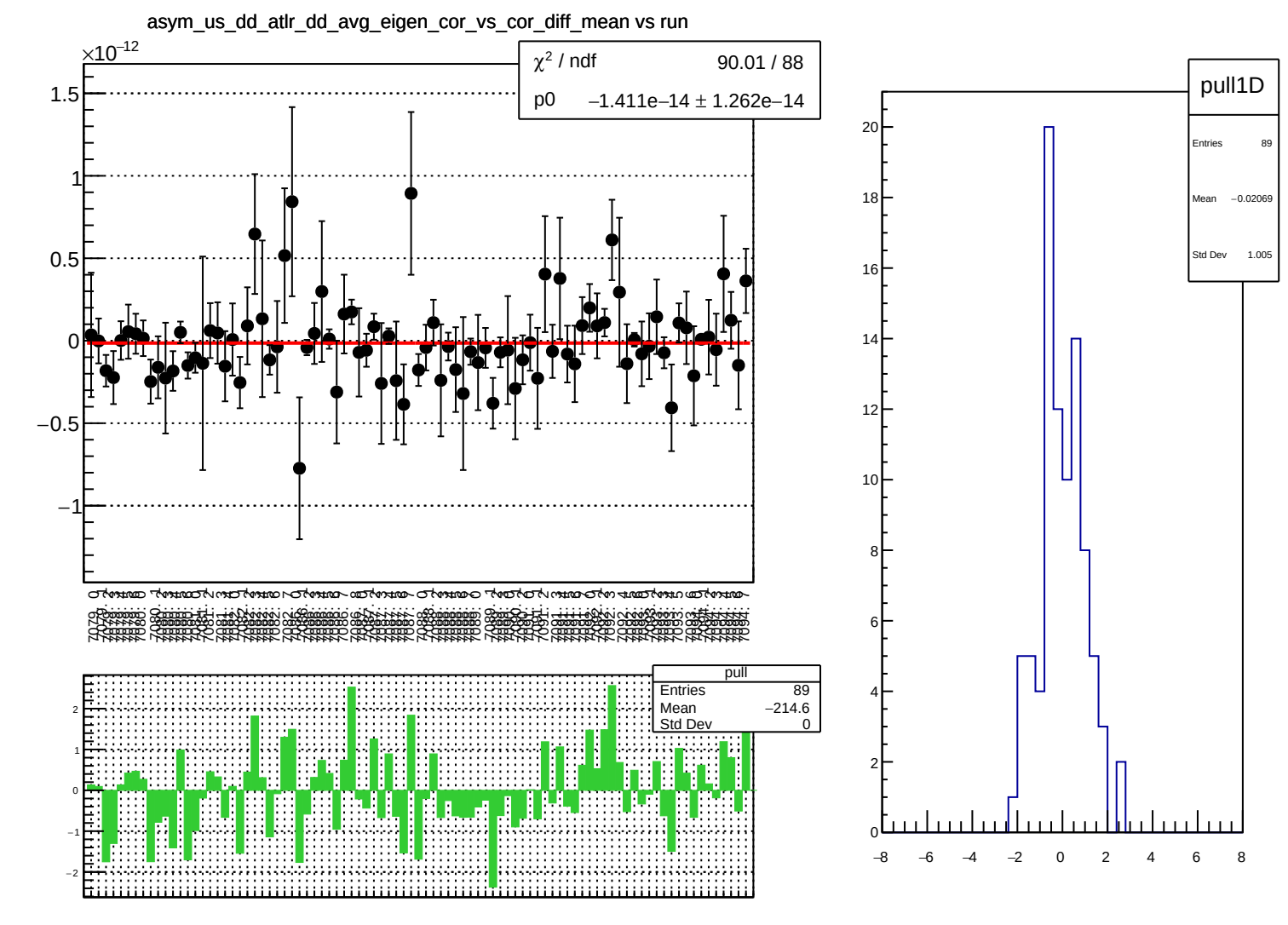

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.742e+04 / 88
p0 0.01152 ± 8.945e−06
0.014
0.013
0.012
0.011
0.01
0.009

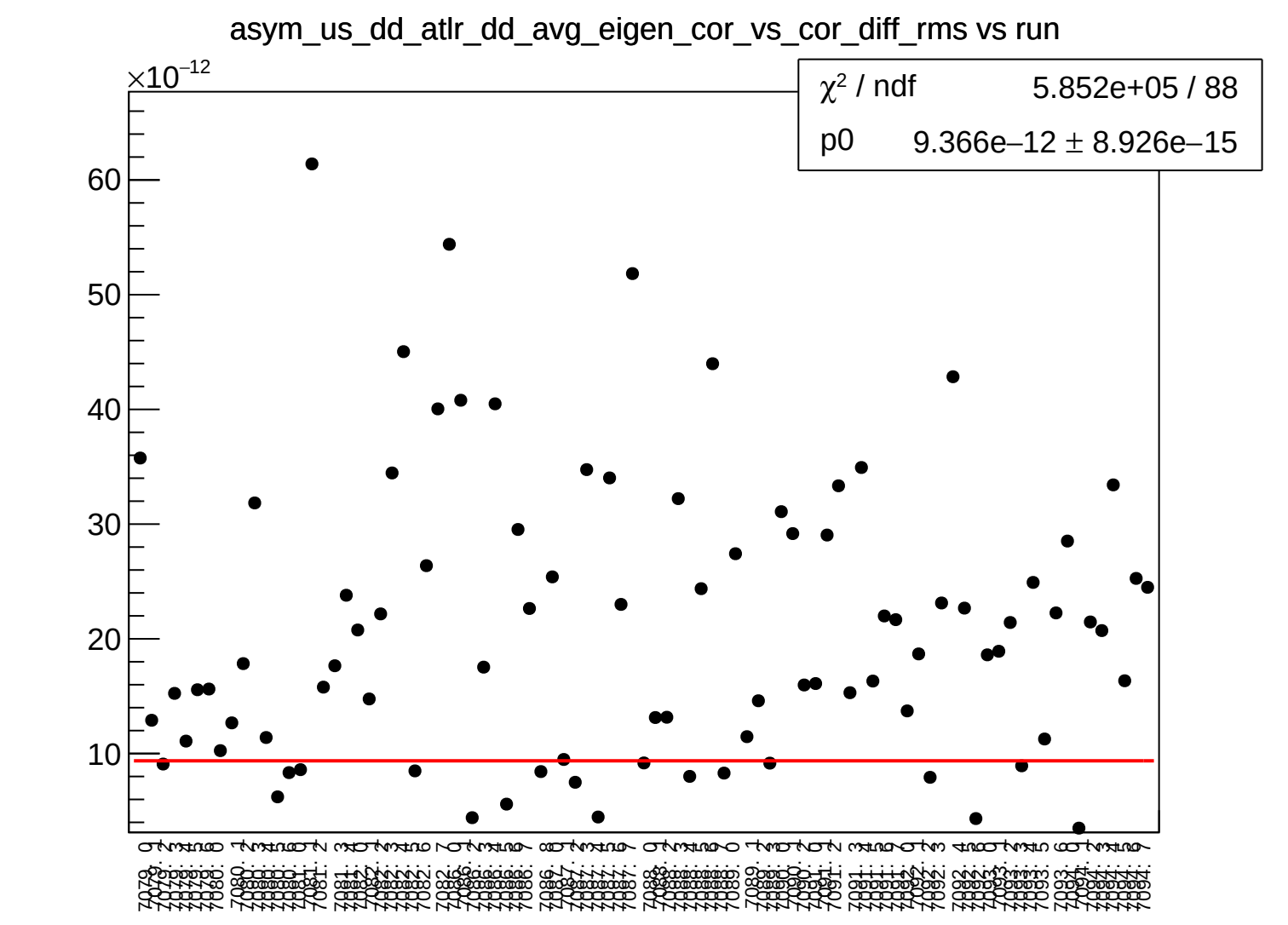

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 88
p0 −0.04664 ± 0.05459
pull
Entries 89
Mean 87.97
Std Dev 23.29
pull1D
Entries 89
Mean −0.02164
Std Dev 1.066

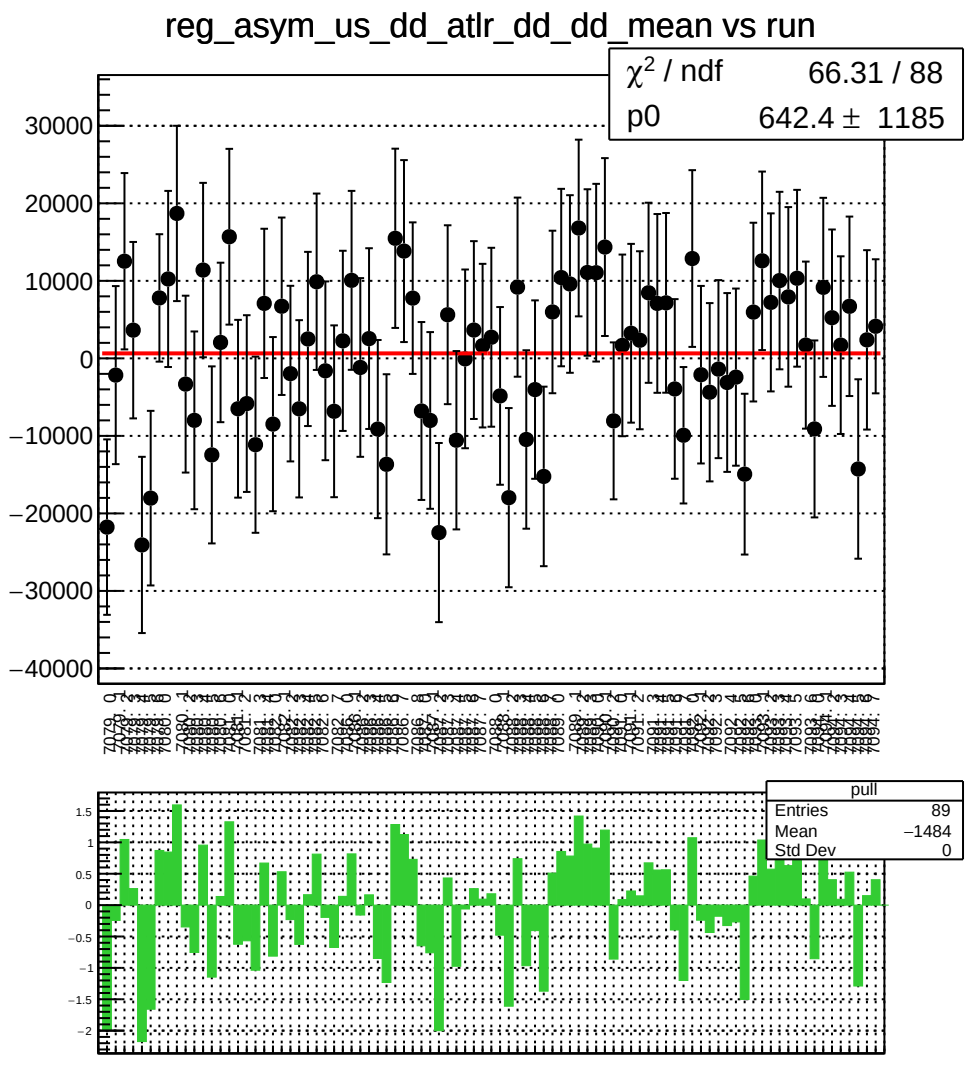

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.477e+05 / 88
p0 47.88 ± 0.0386
90
80
70
60
50
40
30
20

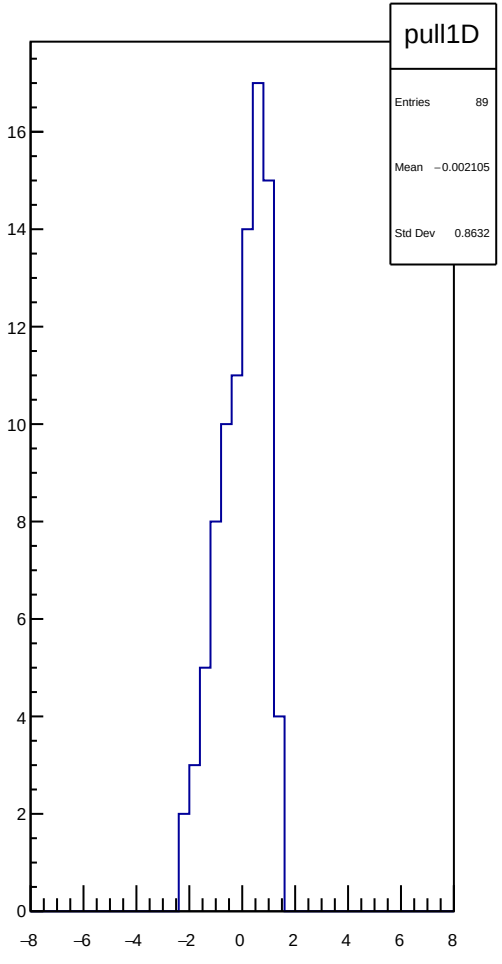

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 88
p0 −0.04664 ± 0.05459
pull
Entries 89
Mean 87.97
Std Dev 23.29
pull1D
Entries 89
Mean −0.02164
Std Dev 1.066

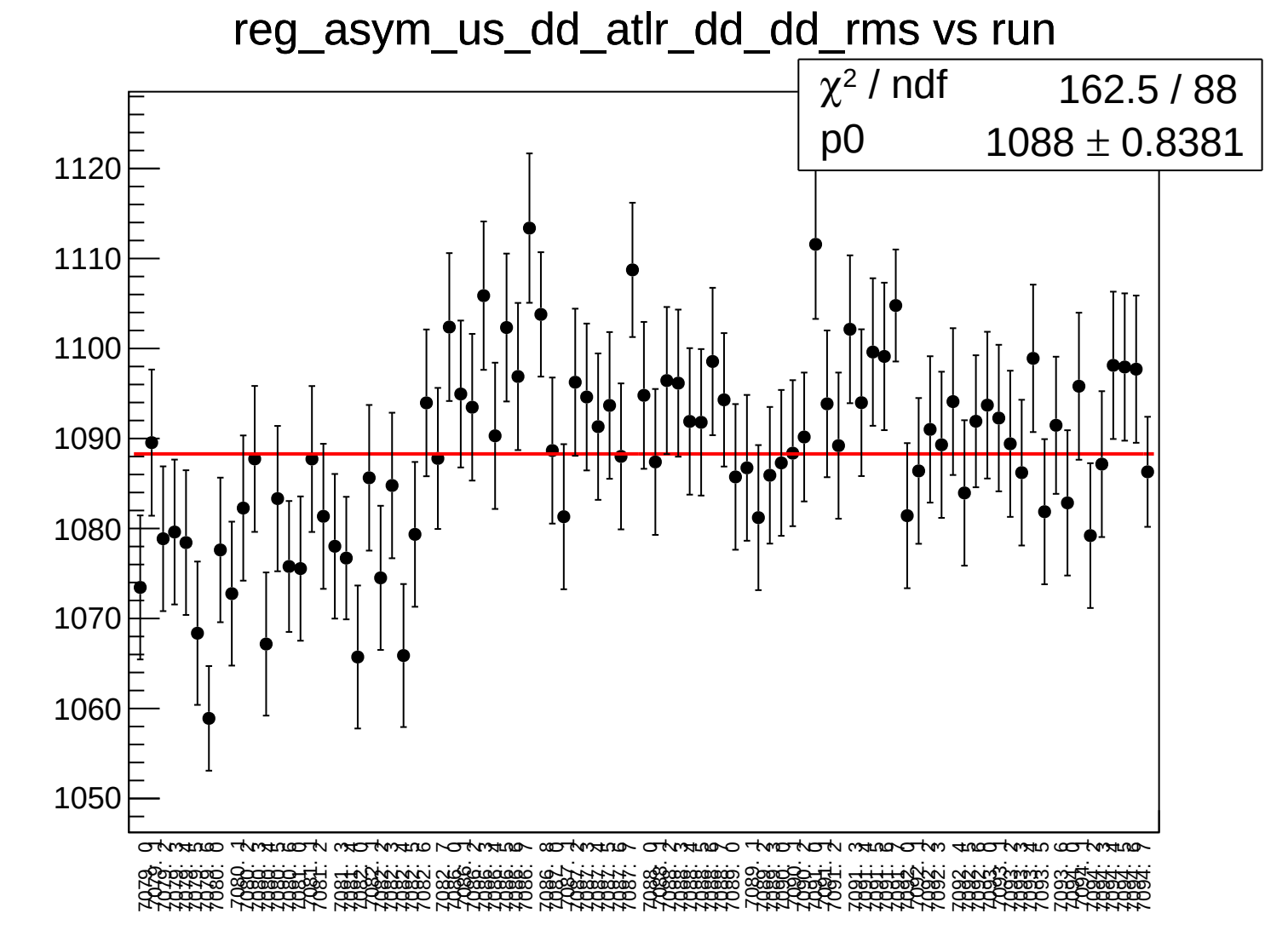

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.477e+05 / 88
p0 47.88 ± 0.0386
90
80
70
60
50
40
30
20

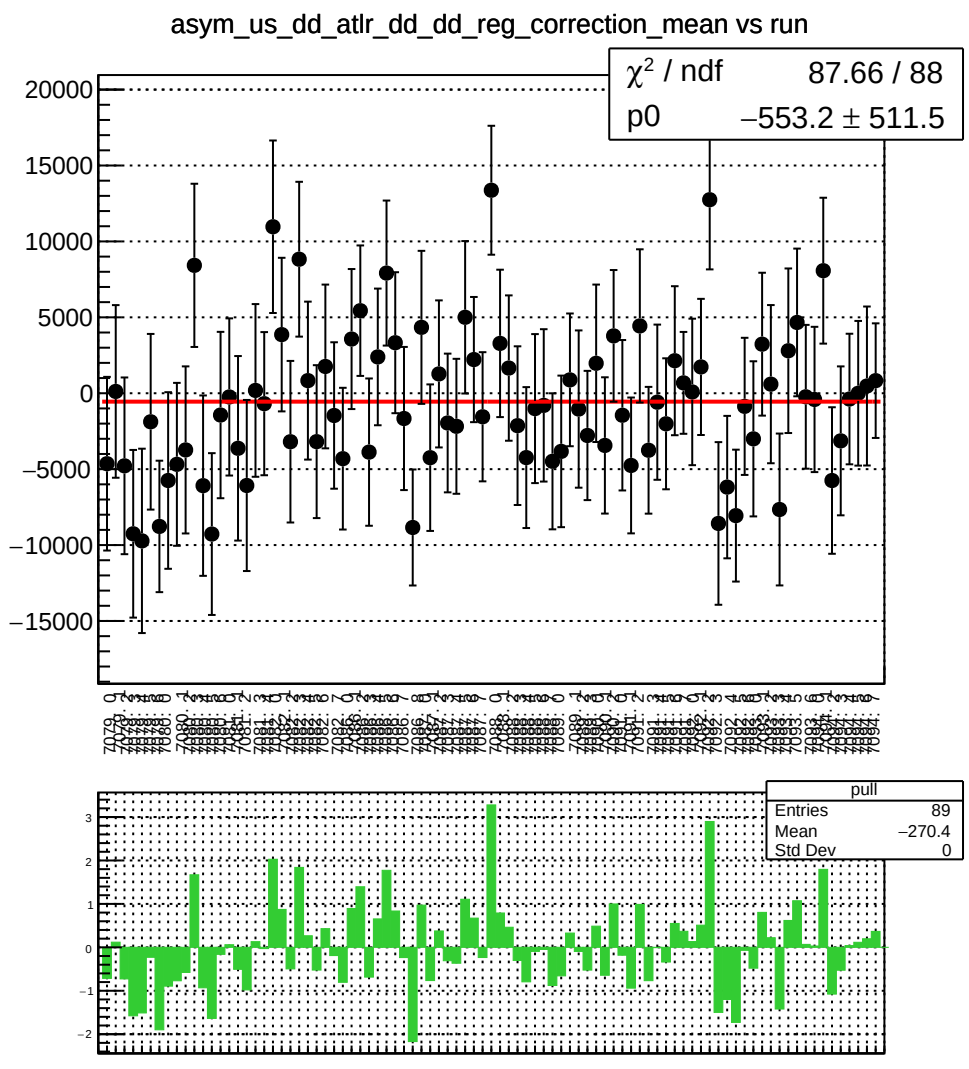

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.01 / 88
p0 −1.411e−14 ± 1.262e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 89
Mean −214.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02069
Std Dev 1.005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

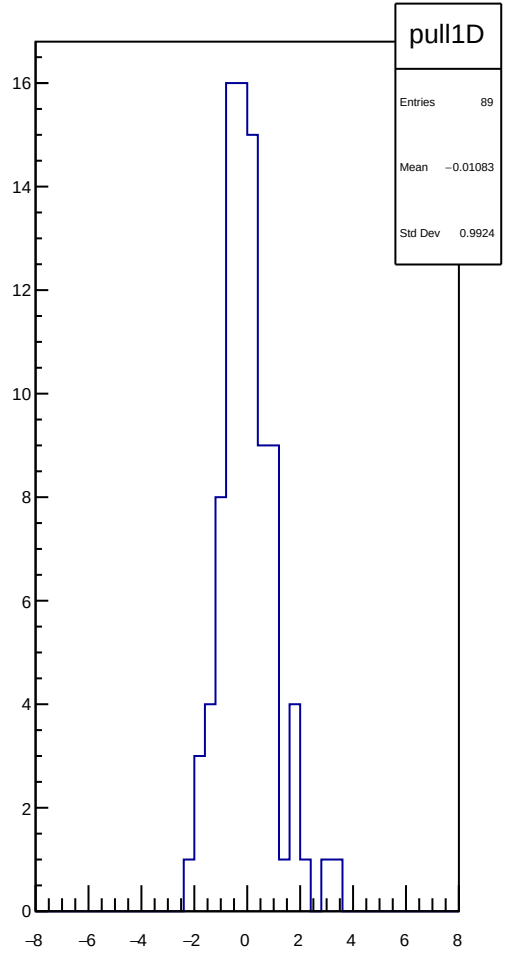

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.852e+05 / 88
p0 9.366e−12 ± 8.926e−15
60
50
40
30
20
10

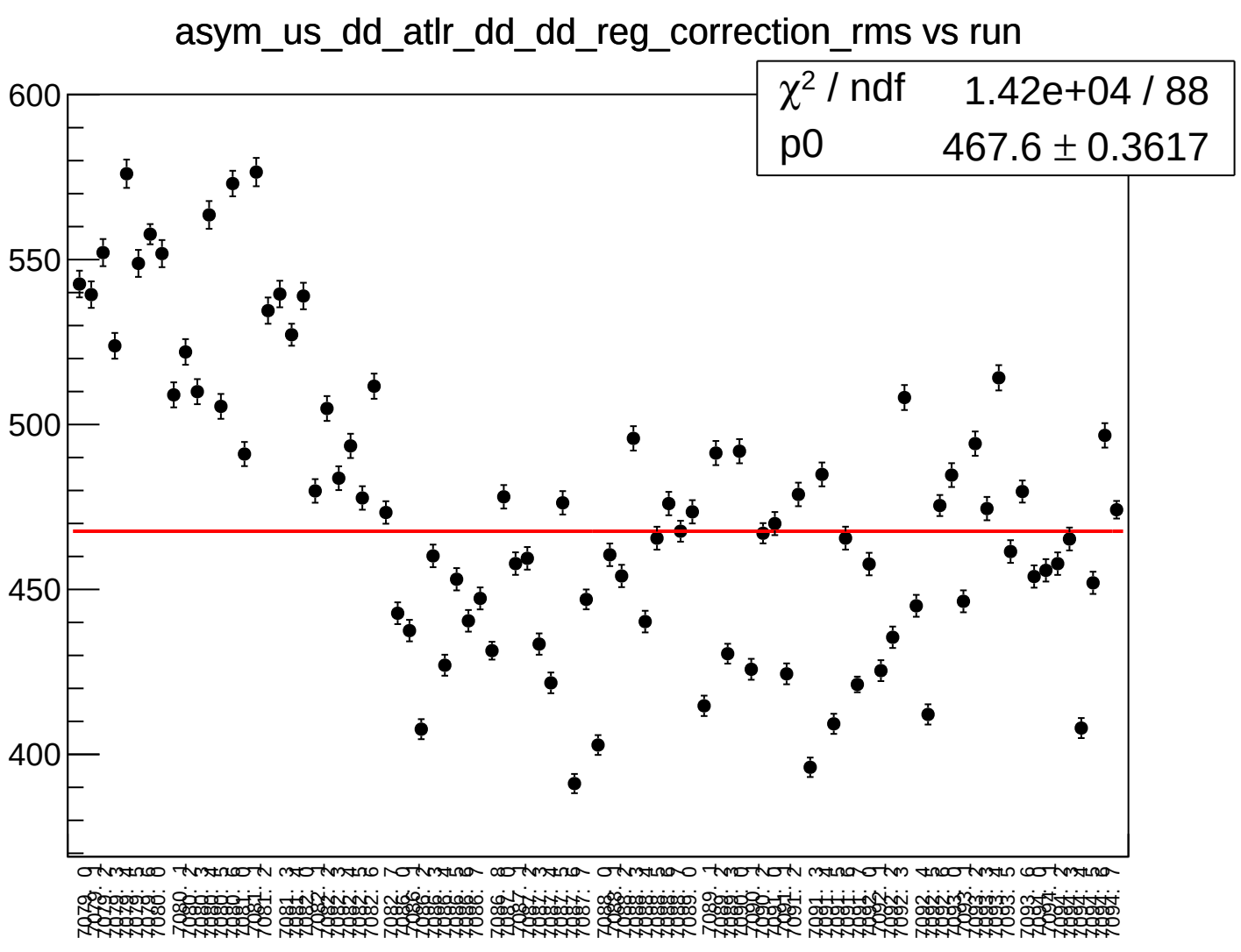

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 66.31 / 88
p0 642.4 ± 1185
pull
Entries 89
Mean −1484
Std Dev 0

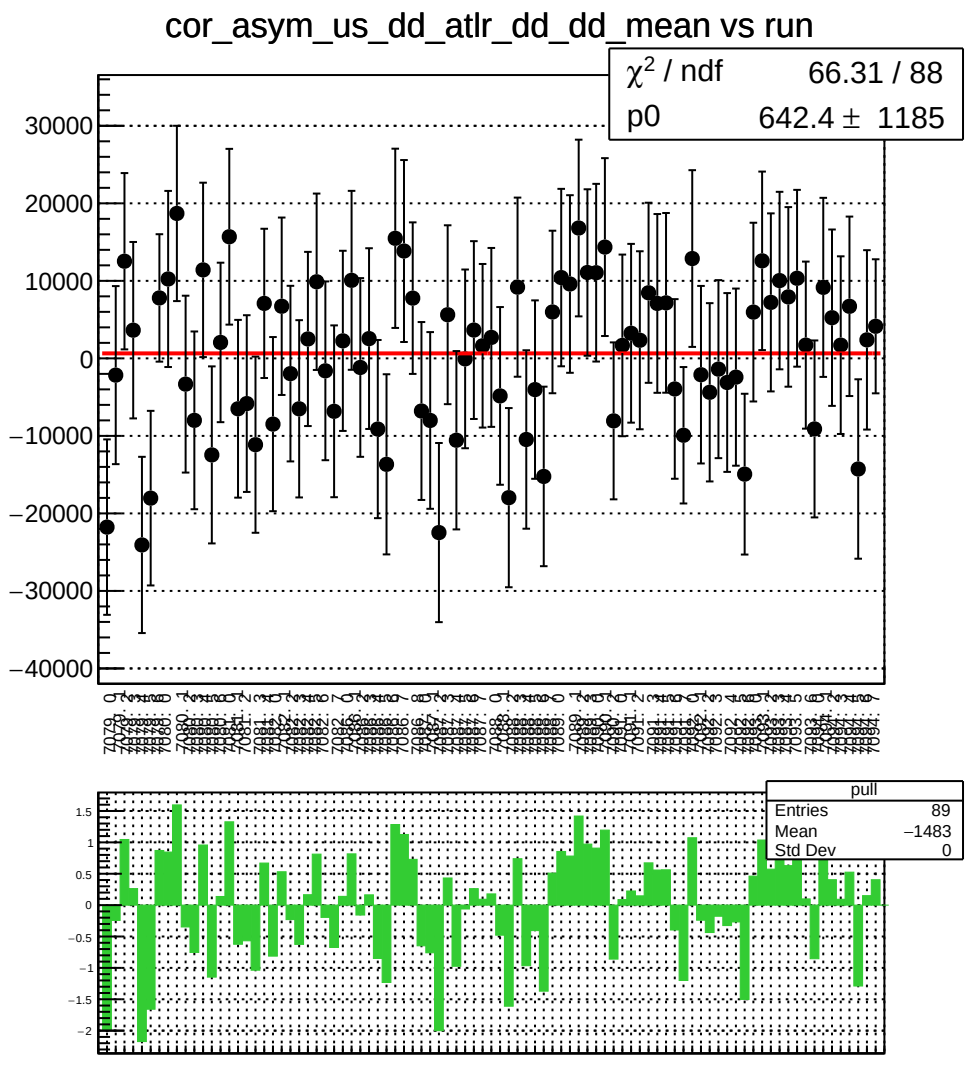

pull1D
Entries 89
Mean −0.002105
Std Dev 0.8632

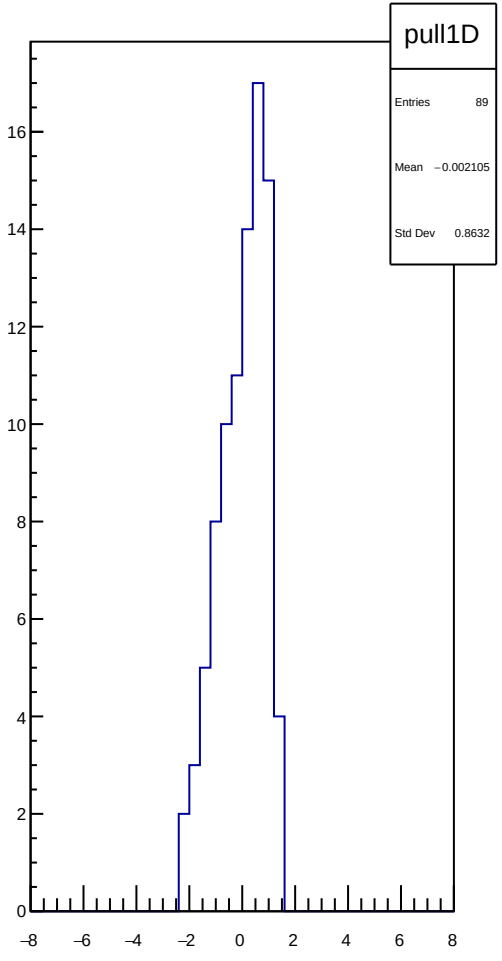

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 162.5 / 88
p0 1088 ± 0.8381
1120
1110
1100
1090
1080
1070
1060
1050

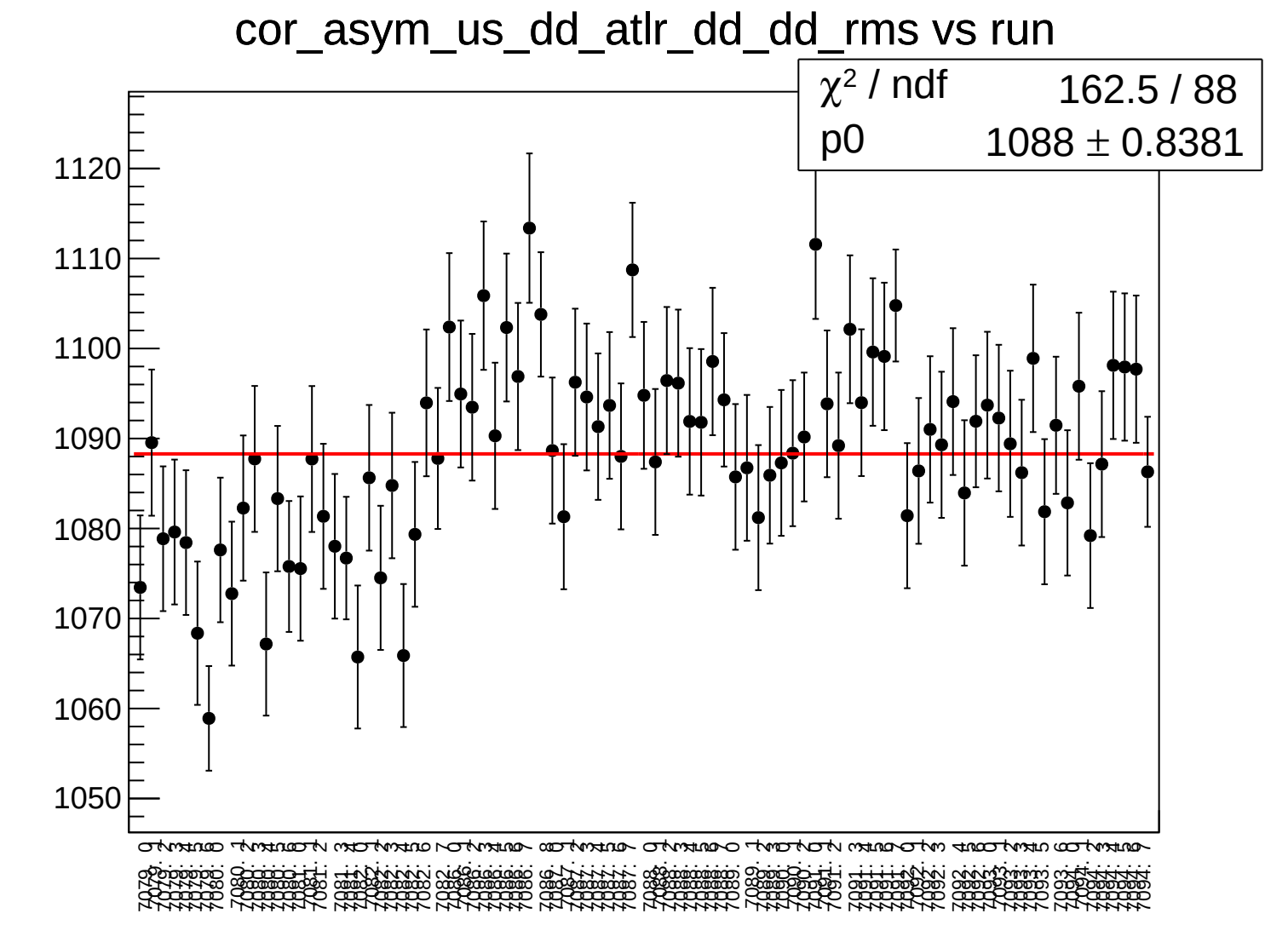

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 87.66 / 88
p0 −553.2 ± 511.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −270.4
Std Dev 0
3
2
1
0
−1
−2

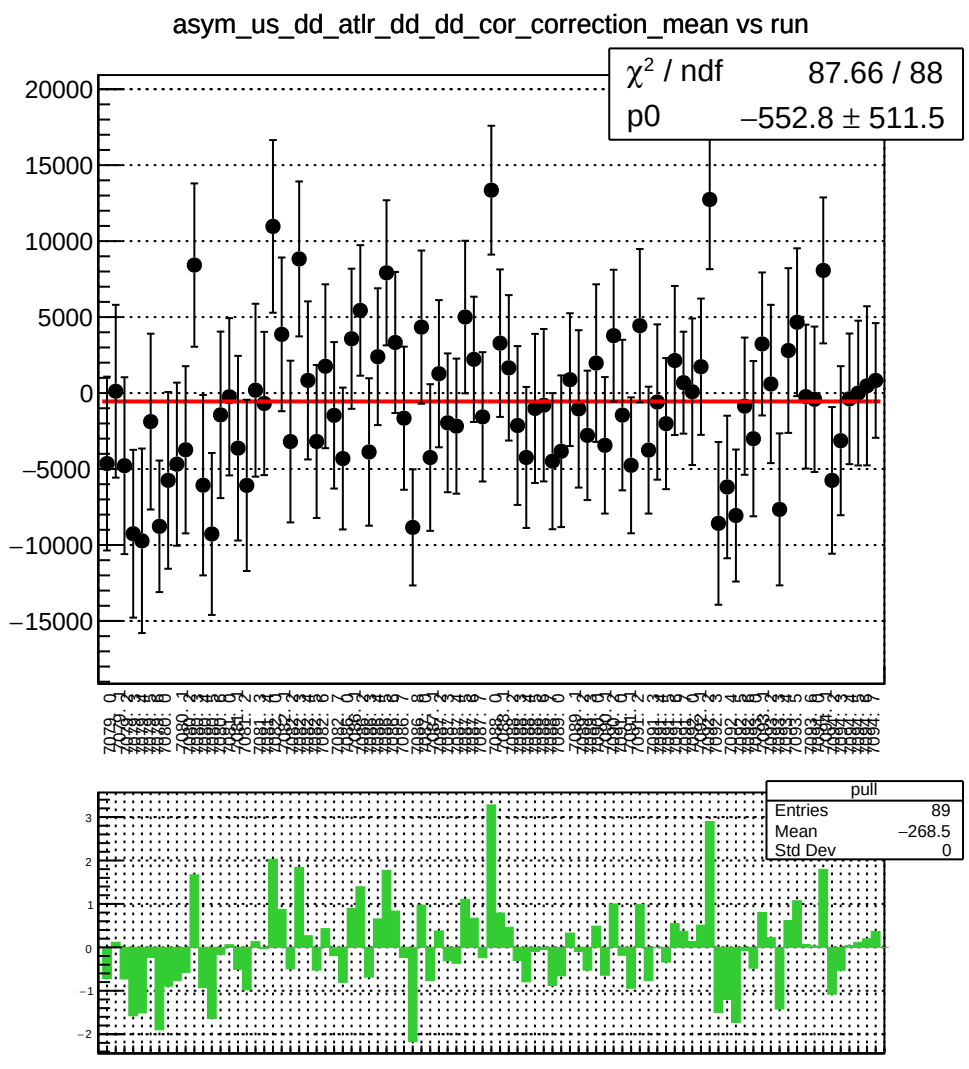

pull1D
Entries 89
Mean −0.01083
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

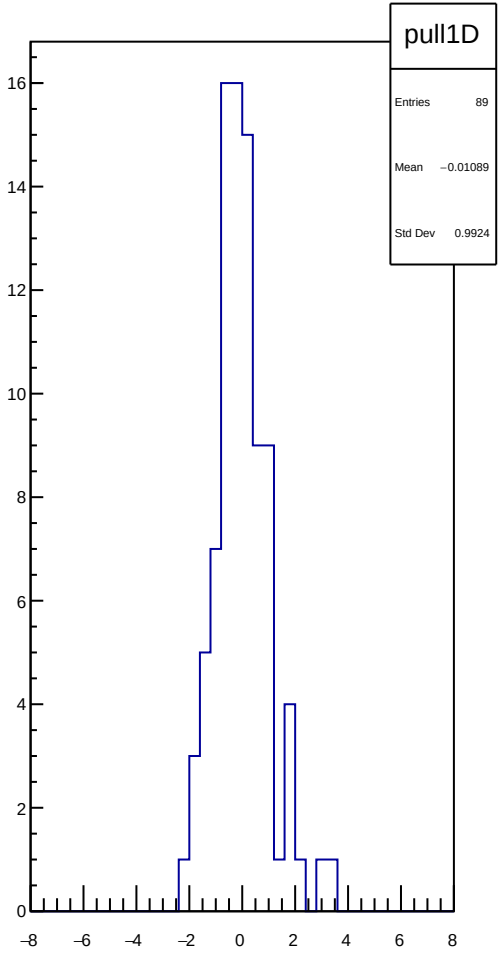

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.42e+04 / 88
p0 467.6 ± 0.3617
600
550
500
450
400

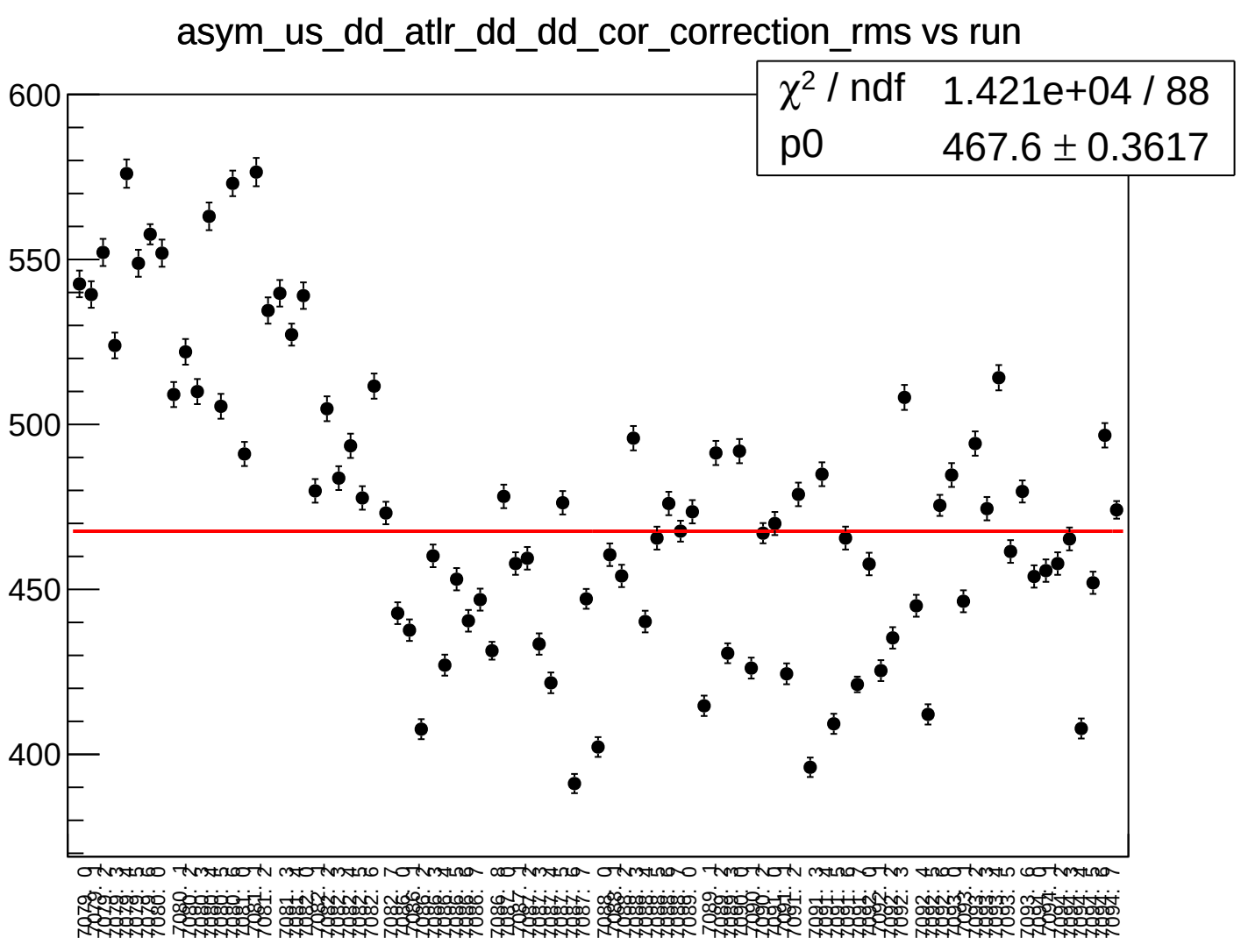

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 66.31 / 88
p0 642.4 ± 1185
pull
Entries 89
Mean −1483
Std Dev 0

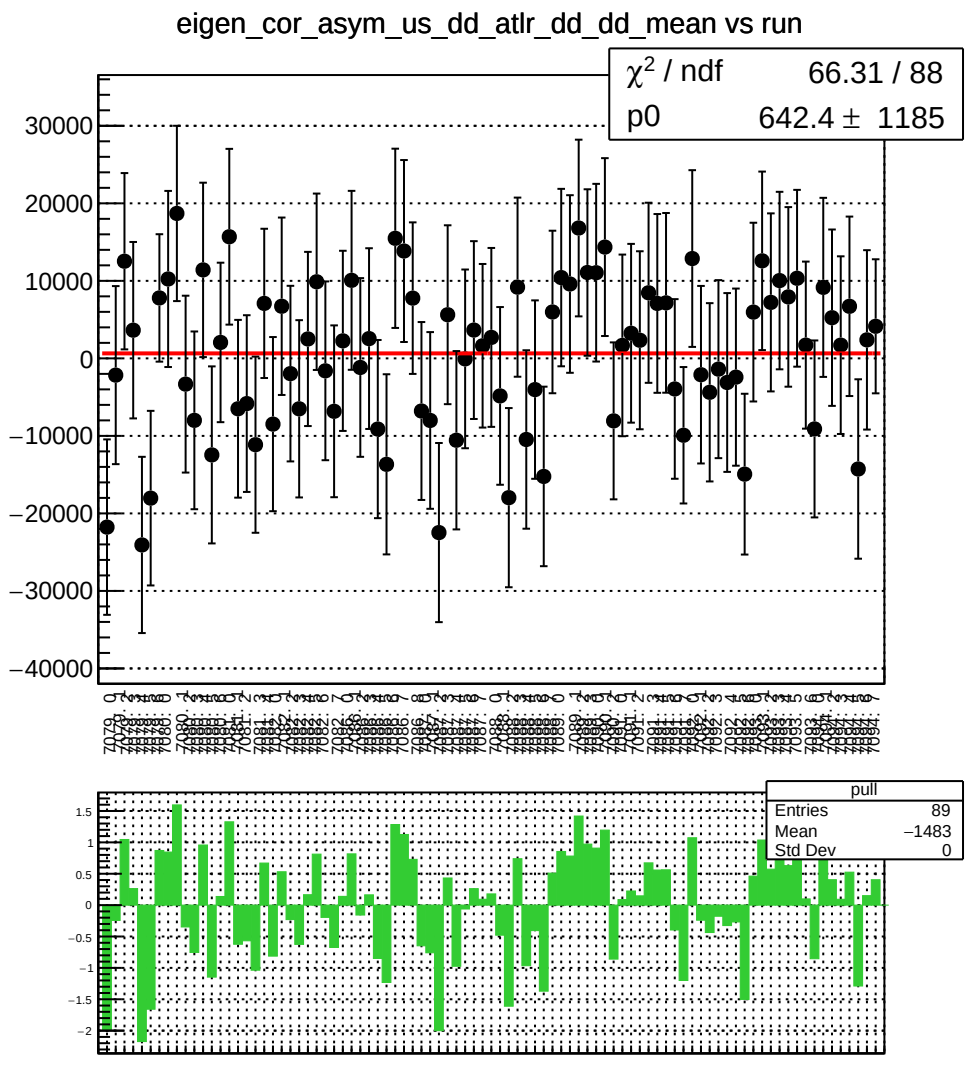

pull1D
Entries 89
Mean −0.002105
Std Dev 0.8632

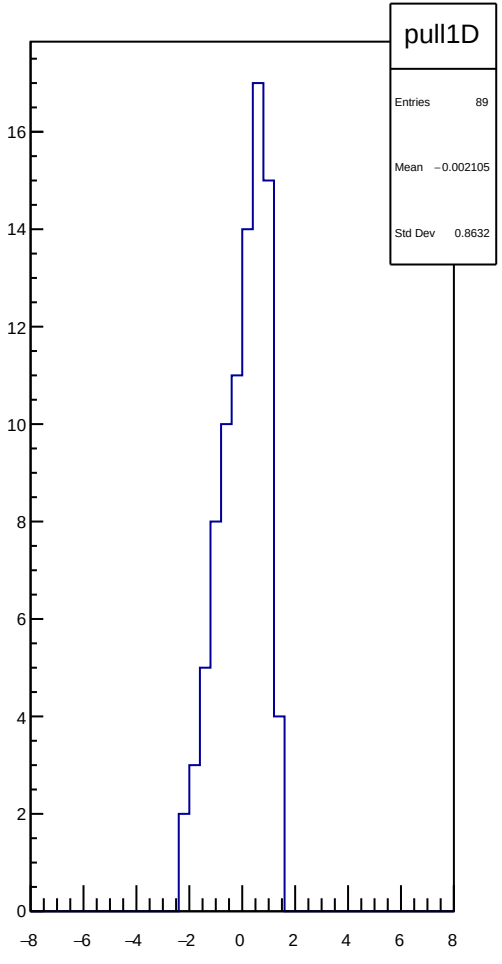

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 162.5 / 88
p0 1088 ± 0.8381
1120
1110
1100
1090
1080
1070
1060
1050

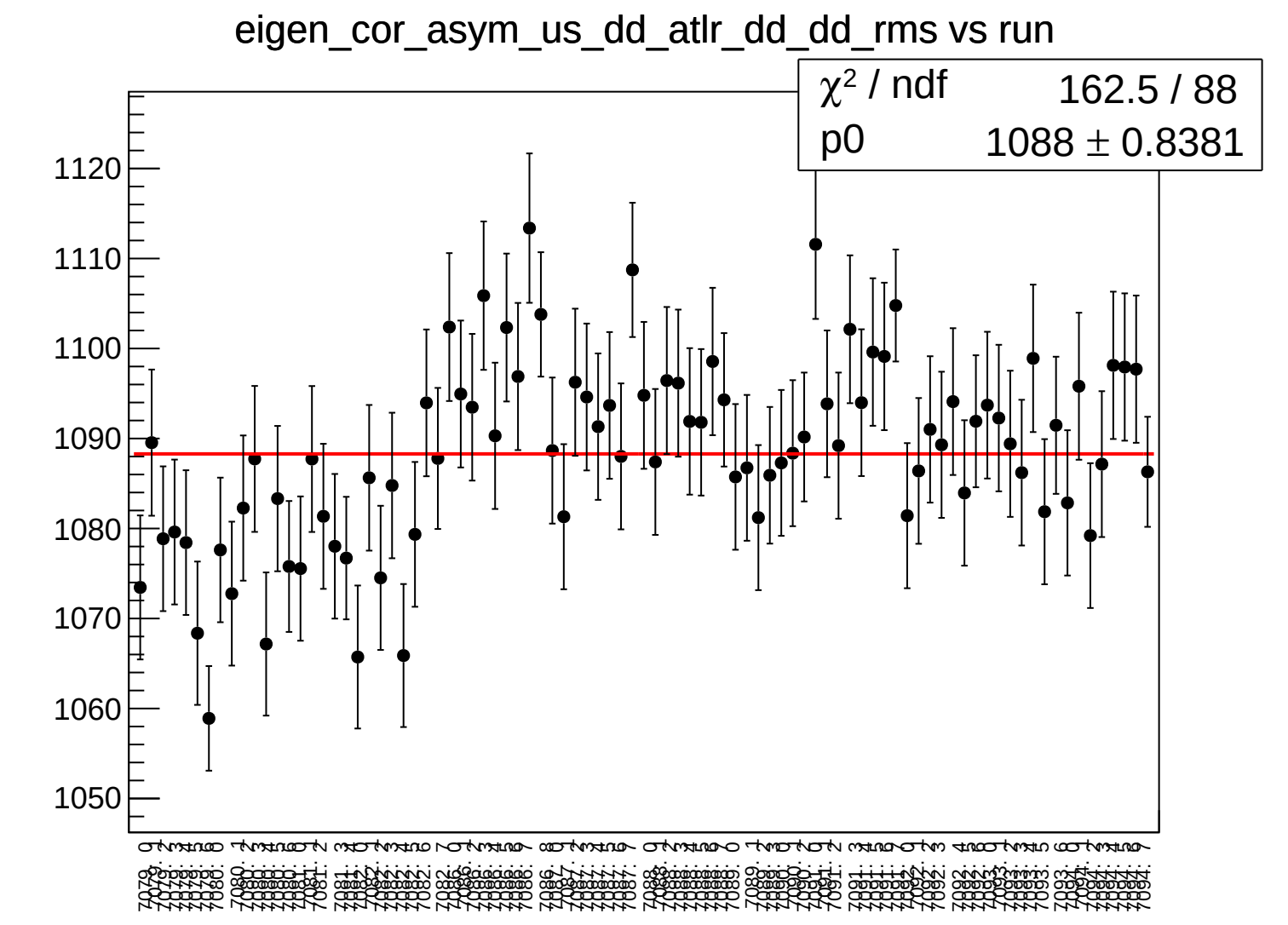

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 87.66 / 88
p0 −552.8 ± 511.5
pull
Entries 89
Mean −268.5
Std Dev 0

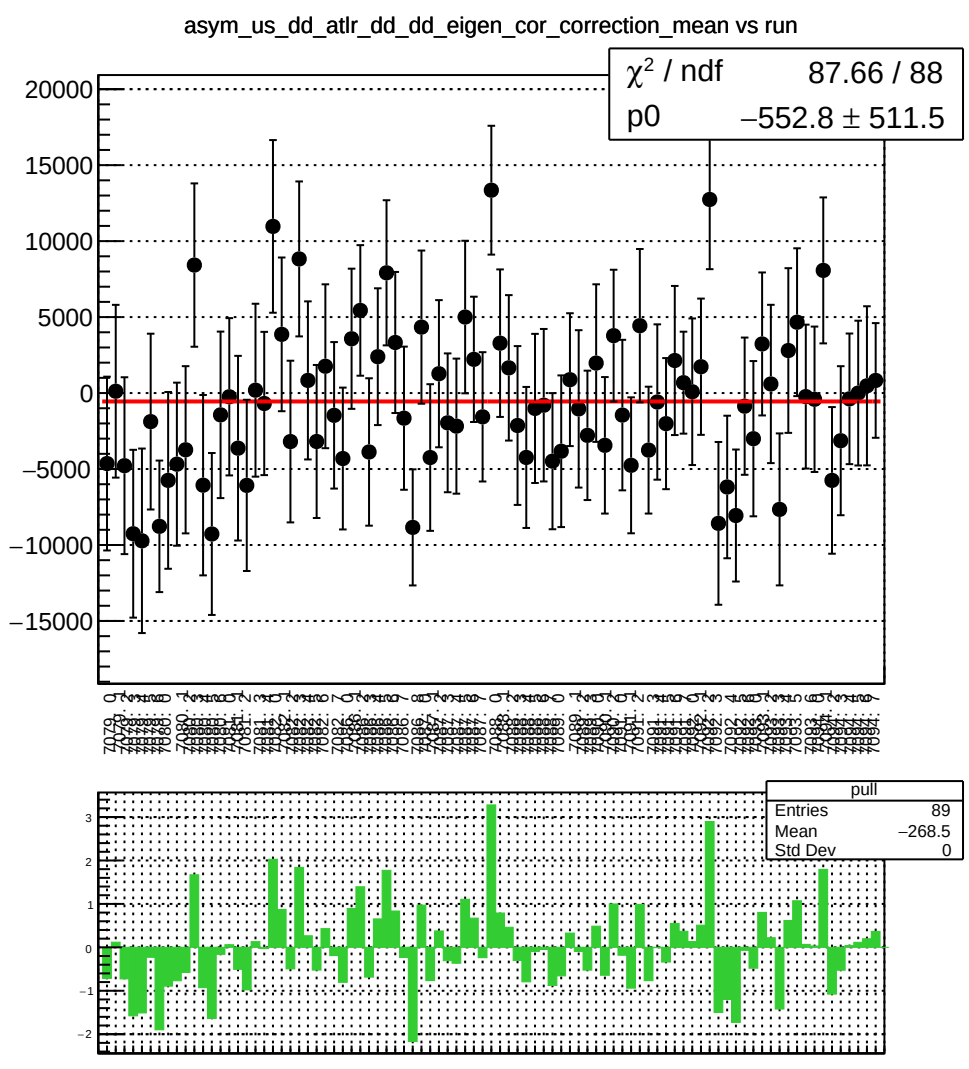

pull1D
Entries 89
Mean −0.01089
Std Dev 0.9924

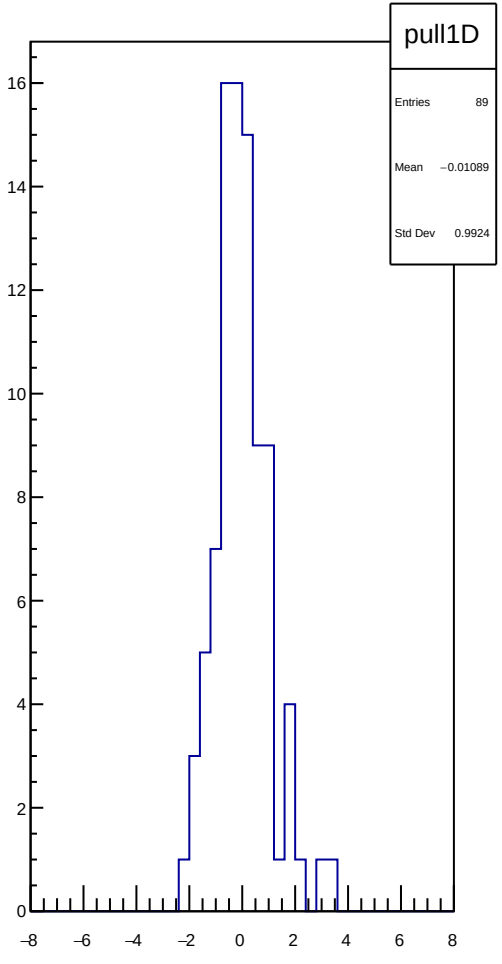

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.421e+04 / 88
p0 467.6 ± 0.3617
600
550
500
450
400

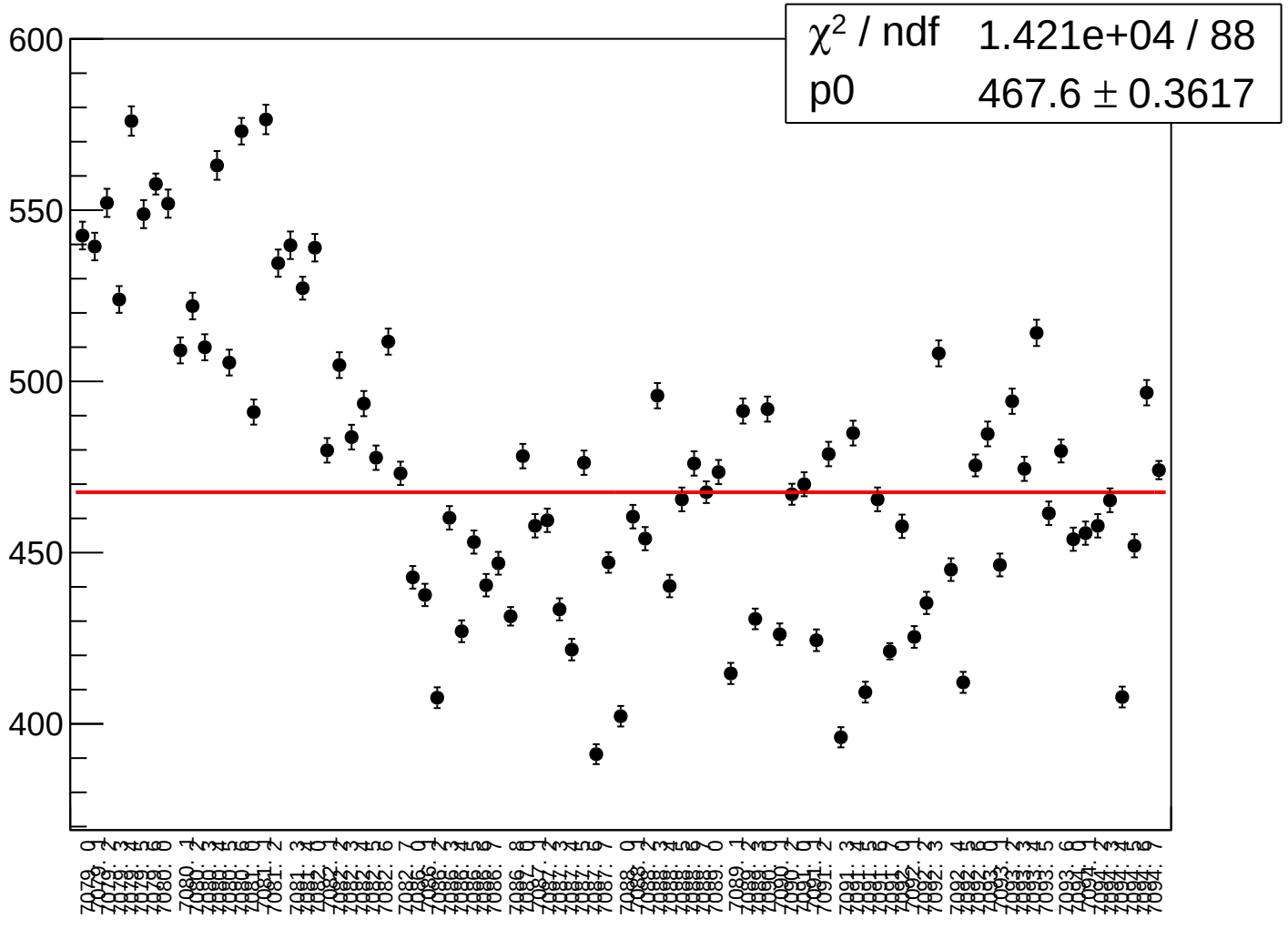

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 66.31 / 88
p0 642.4 ± 1185
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −1483
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

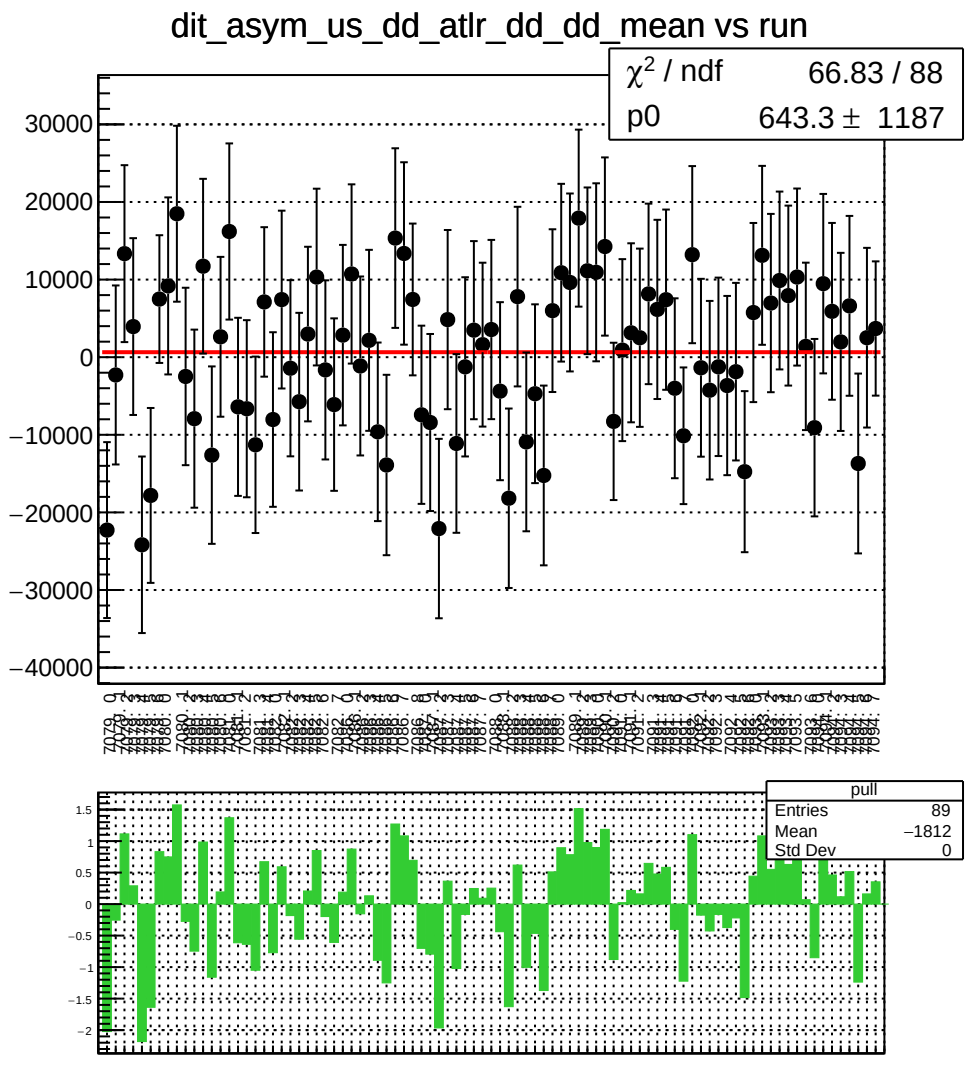

pull1D
Entries 89
Mean −0.002105
Std Dev 0.8632
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

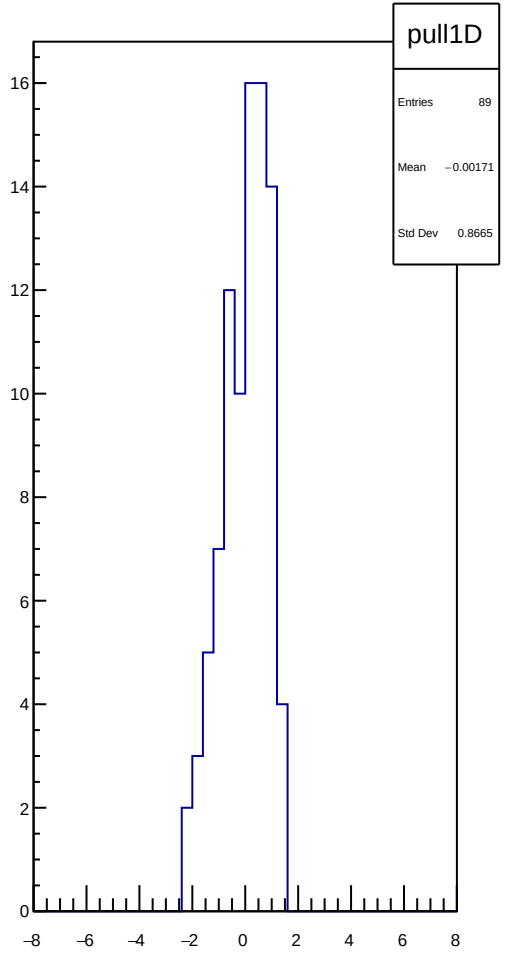

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 162.5 / 88
p0 1088 ± 0.8381
1120
1110
1100
1090
1080
1070
1060
1050

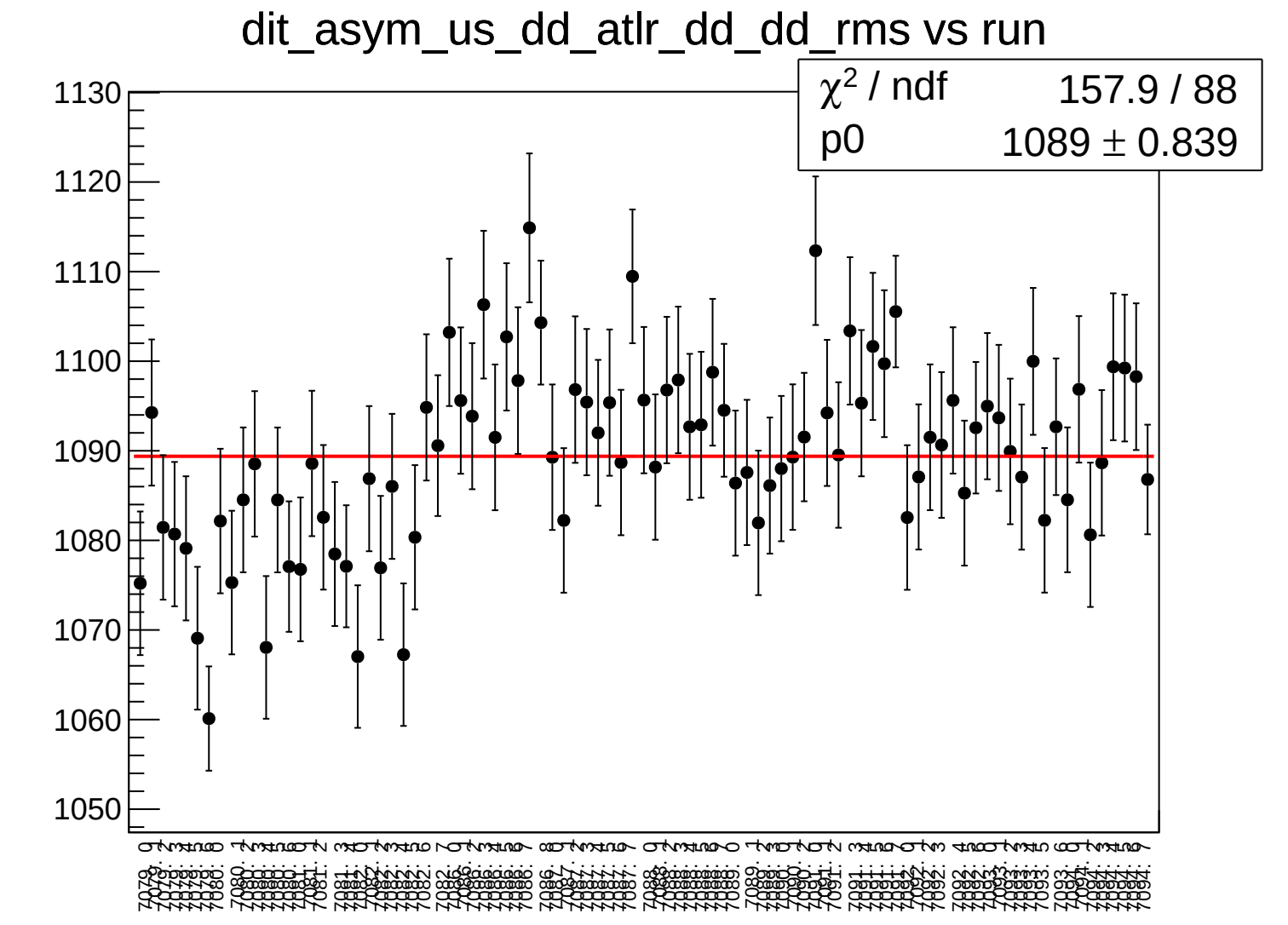

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.66 / 88
p0 −552.8 ± 511.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −268.5
Std Dev 0
3
2
1
0
−1
−2

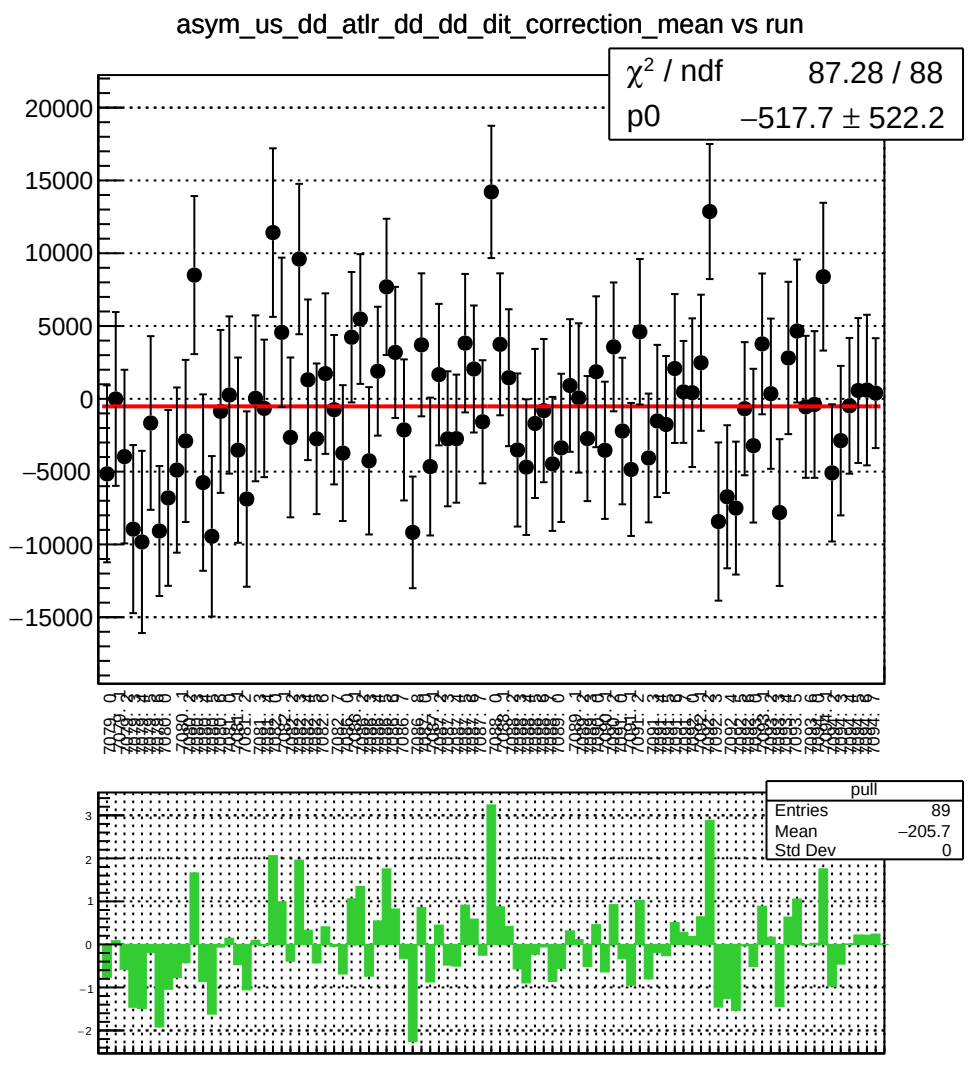

pull1D
Entries 89
Mean −0.01089
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

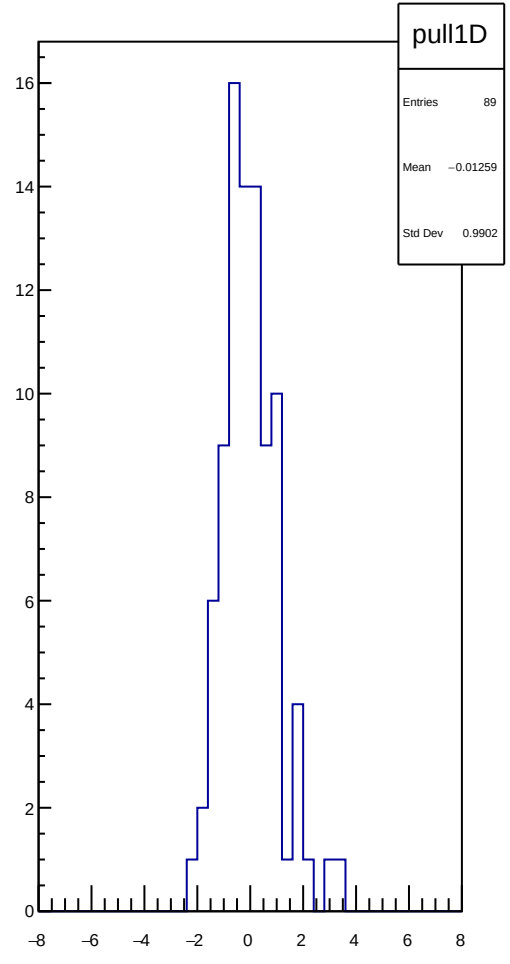

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.421e+04 / 88
p0 467.6 ± 0.3617
600
550
500
450
400

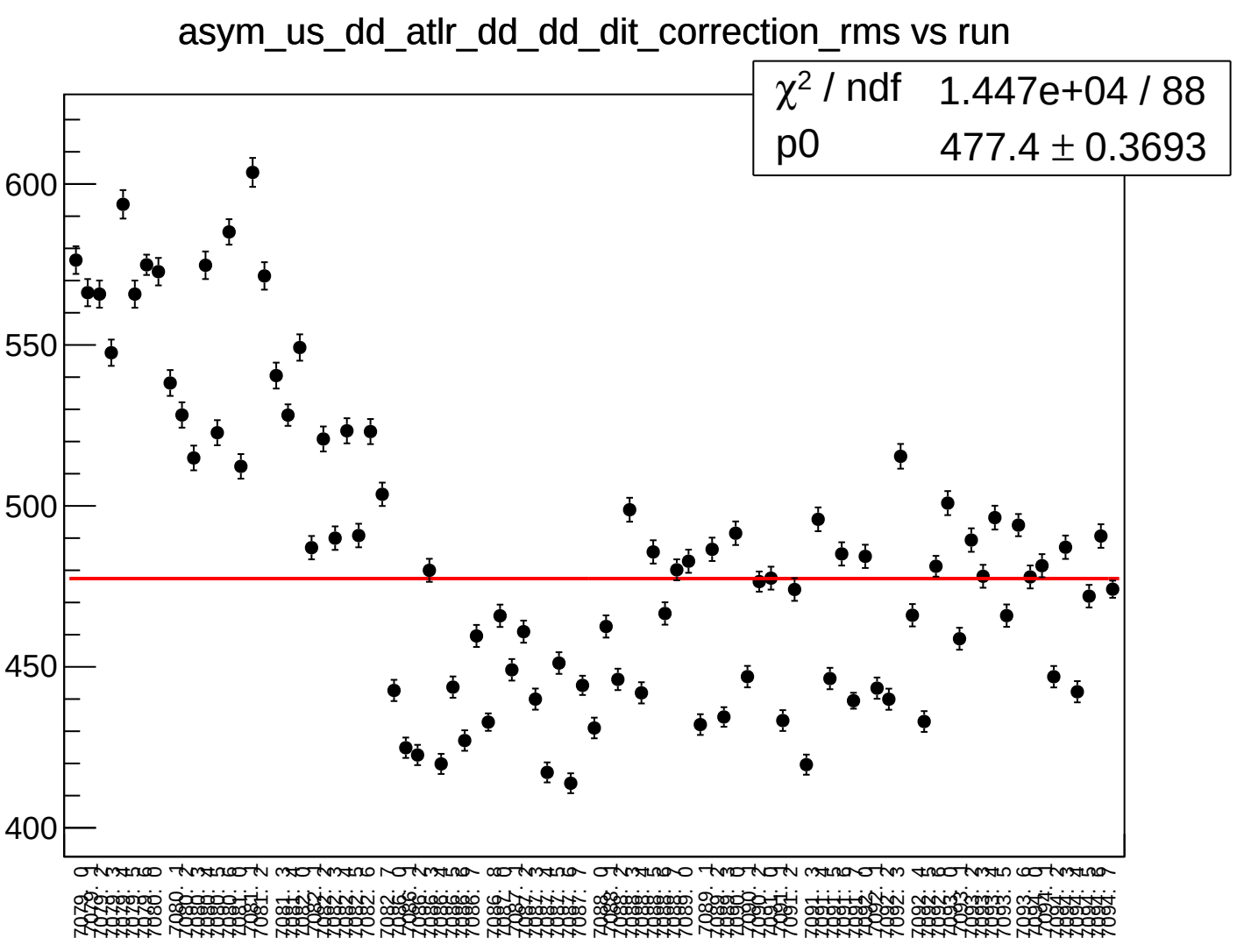

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 66.83 / 88
p0 643.3 ± 1187
pull
Entries 89
Mean −1812
Std Dev 0

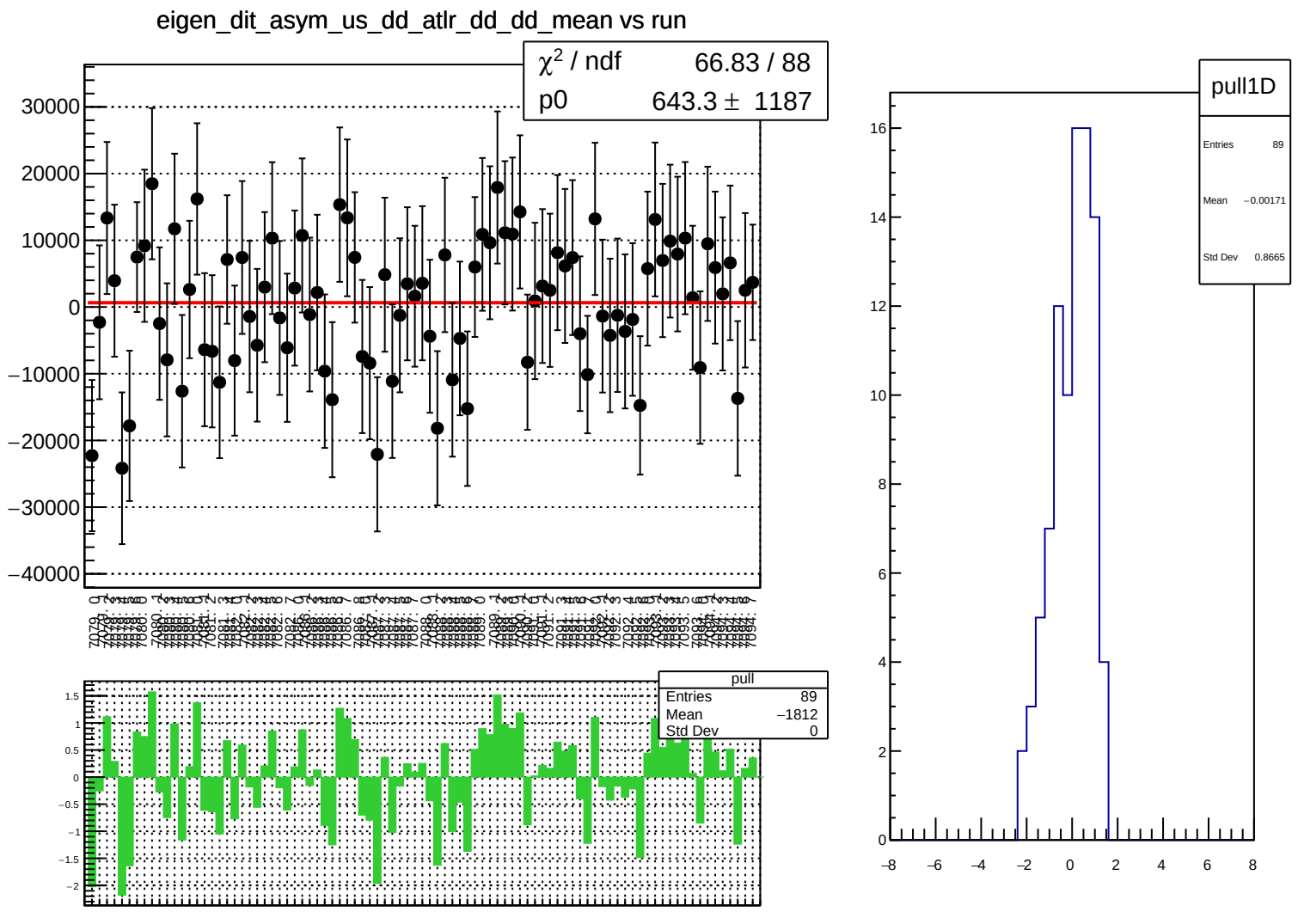

pull1D
Entries 89
Mean −0.00171
Std Dev 0.8665

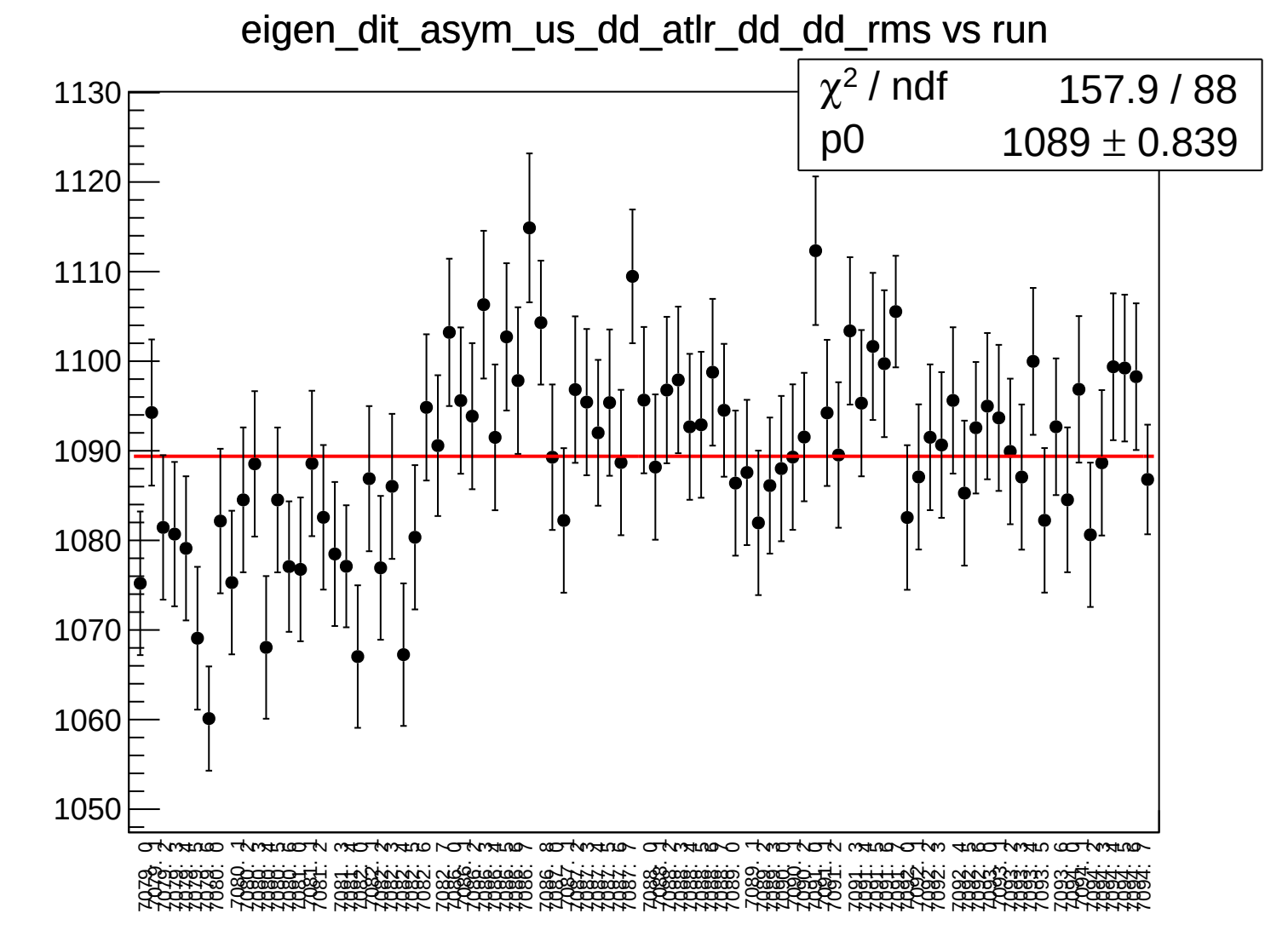

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 157.9 / 88
p0 1089 ± 0.839
1130
1120
1110
1100
1090
1080
1070
1060
1050

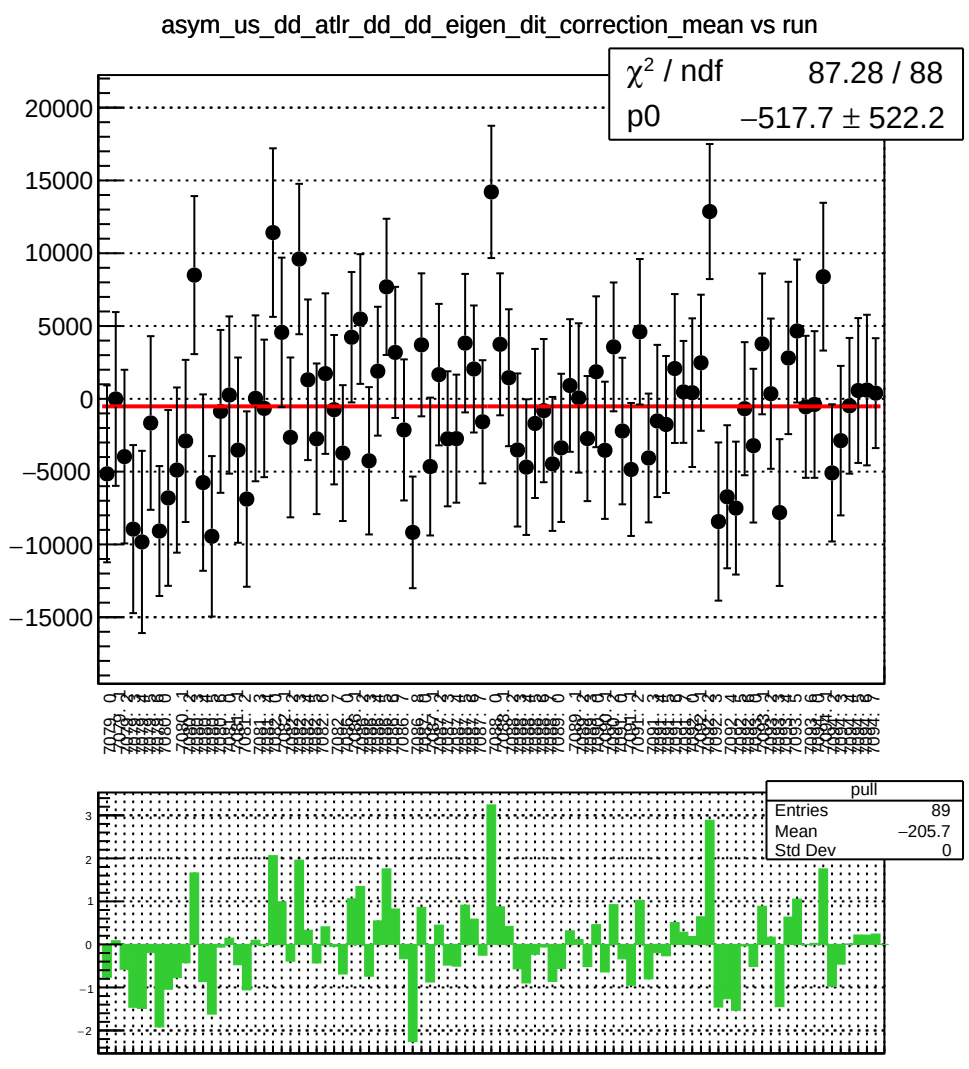

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 87.28 / 88
p0 −517.7 ± 522.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −205.7
Std Dev 0
3
2
1
0
−1
−2

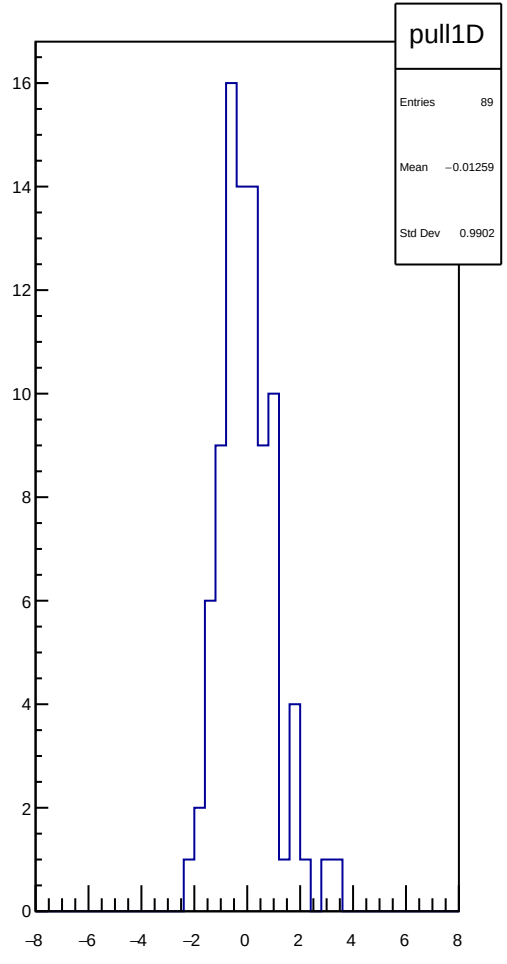

pull1D
Entries 89
Mean −0.01259
Std Dev 0.9902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

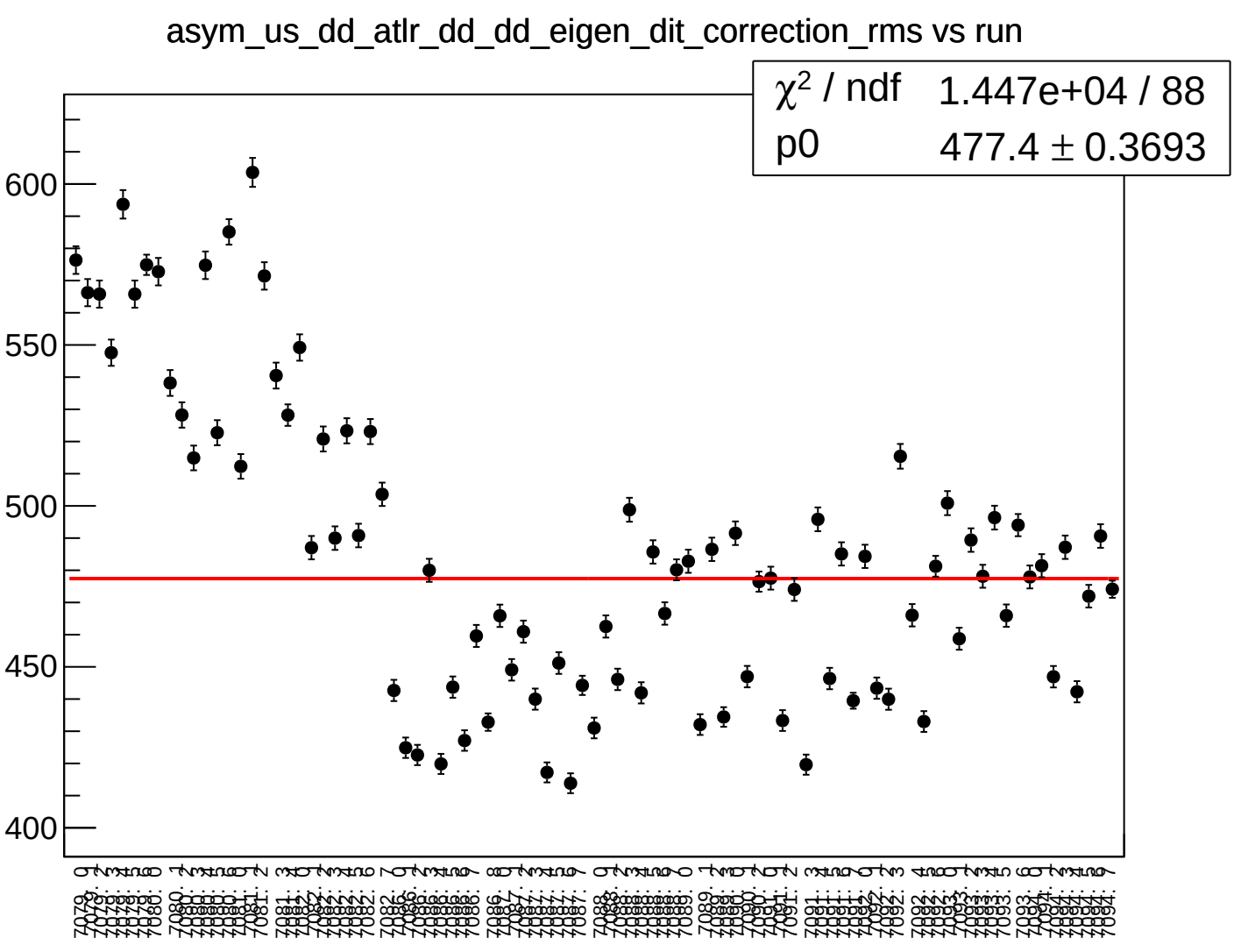

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.447e+04 / 88
p0 477.4 ± 0.3693
600
550
500
450
400

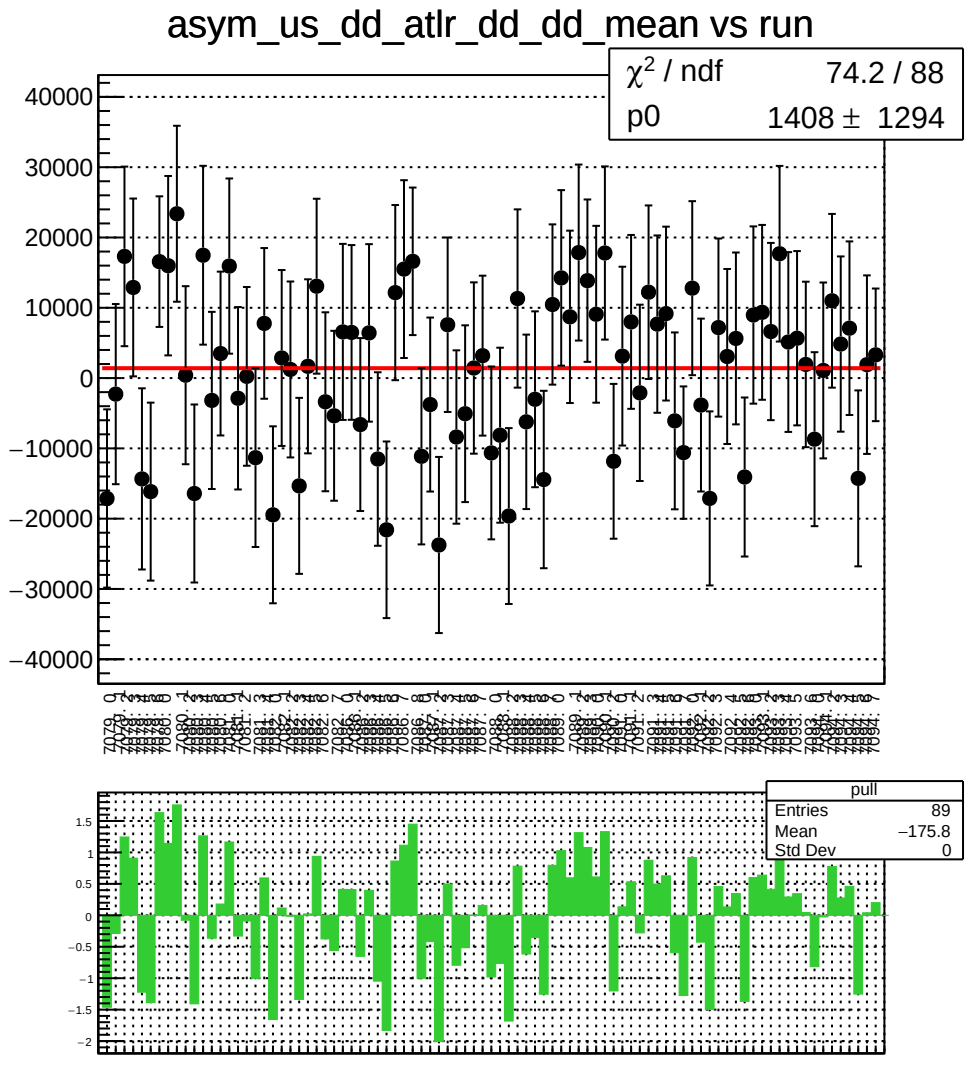

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 66.83 / 88
p0 643.3 ± 1187
pull
Entries 89
Mean −1812
Std Dev 0
pull1D
Entries 89
Mean −0.00171
Std Dev 0.8665

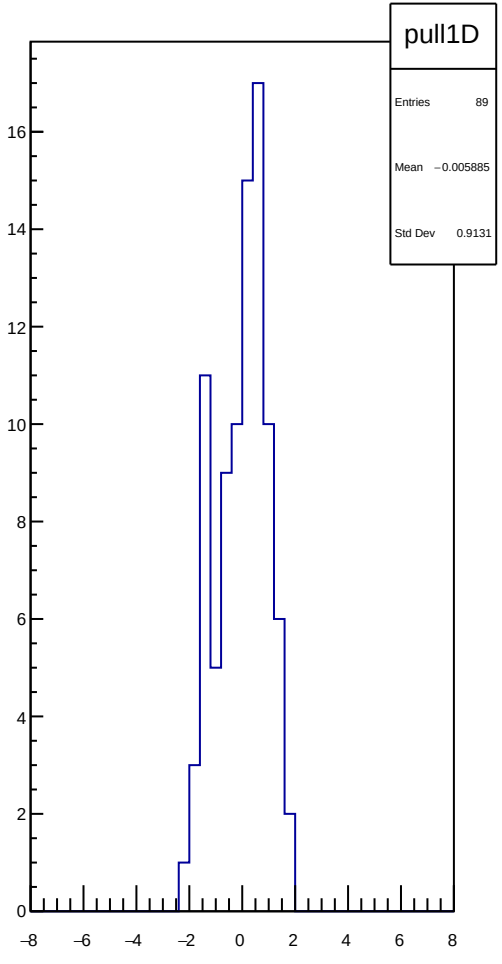

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 157.9 / 88
p0 1089 ± 0.839
1130
1120
1110
1100
1090
1080
1070
1060
1050

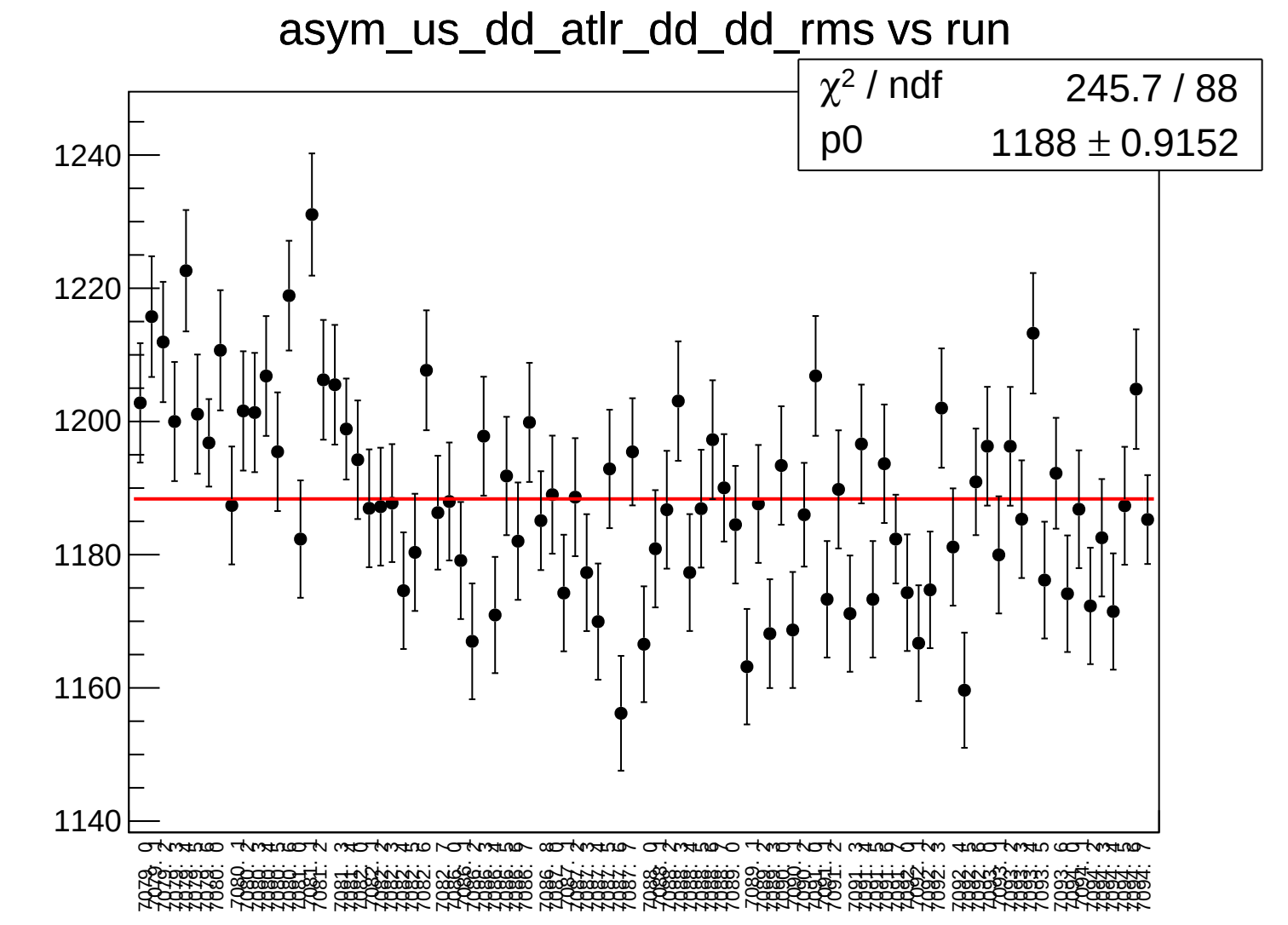

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.28 / 88
p0 −517.7 ± 522.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −205.7
Std Dev 0
3
2
1
0
−1
−2

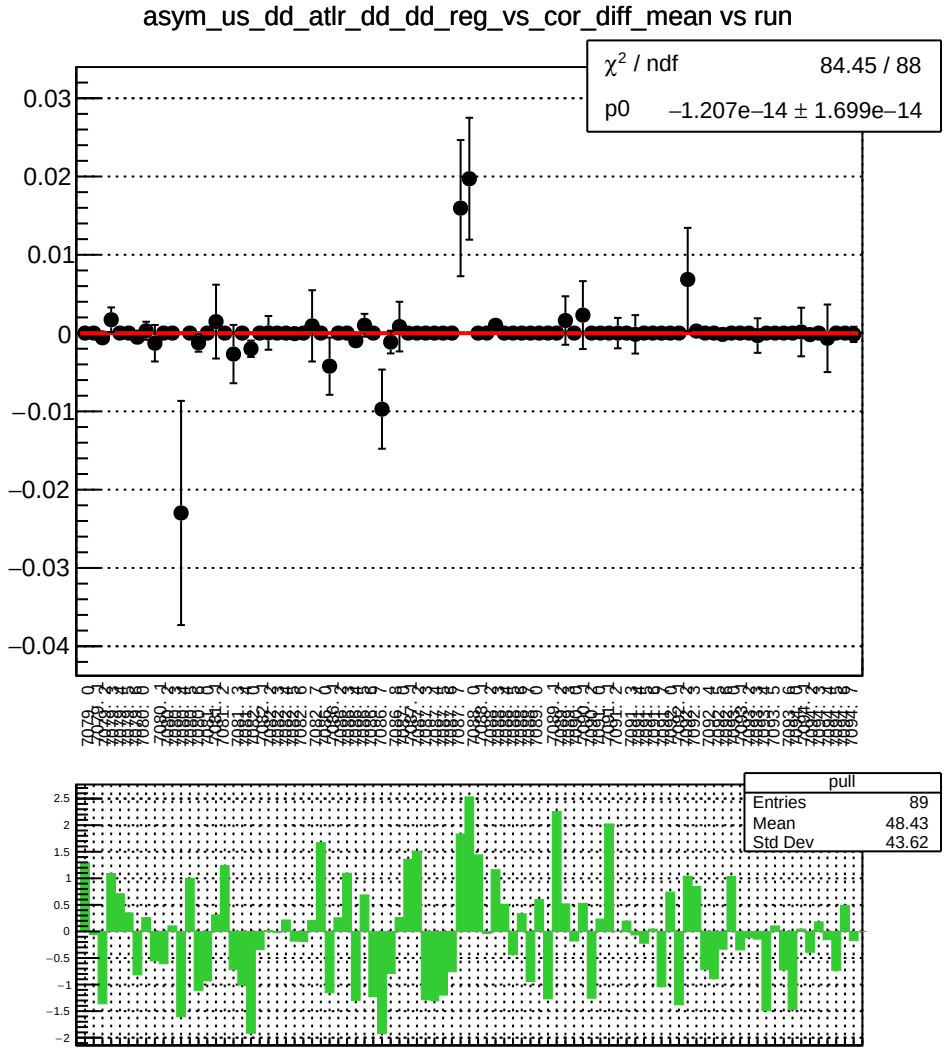

pull1D
Entries 89
Mean −0.01259
Std Dev 0.9902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

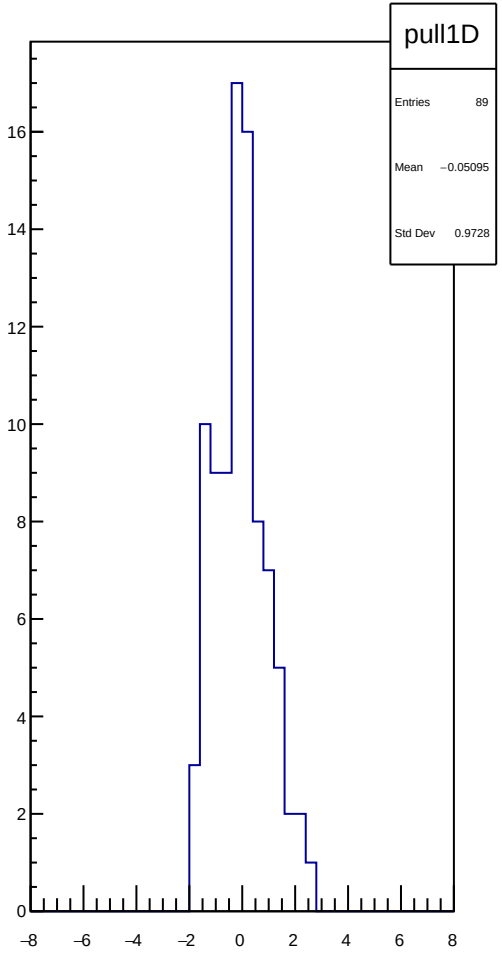

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.447e+04 / 88
p0 477.4 ± 0.3693
600
550
500
450
400

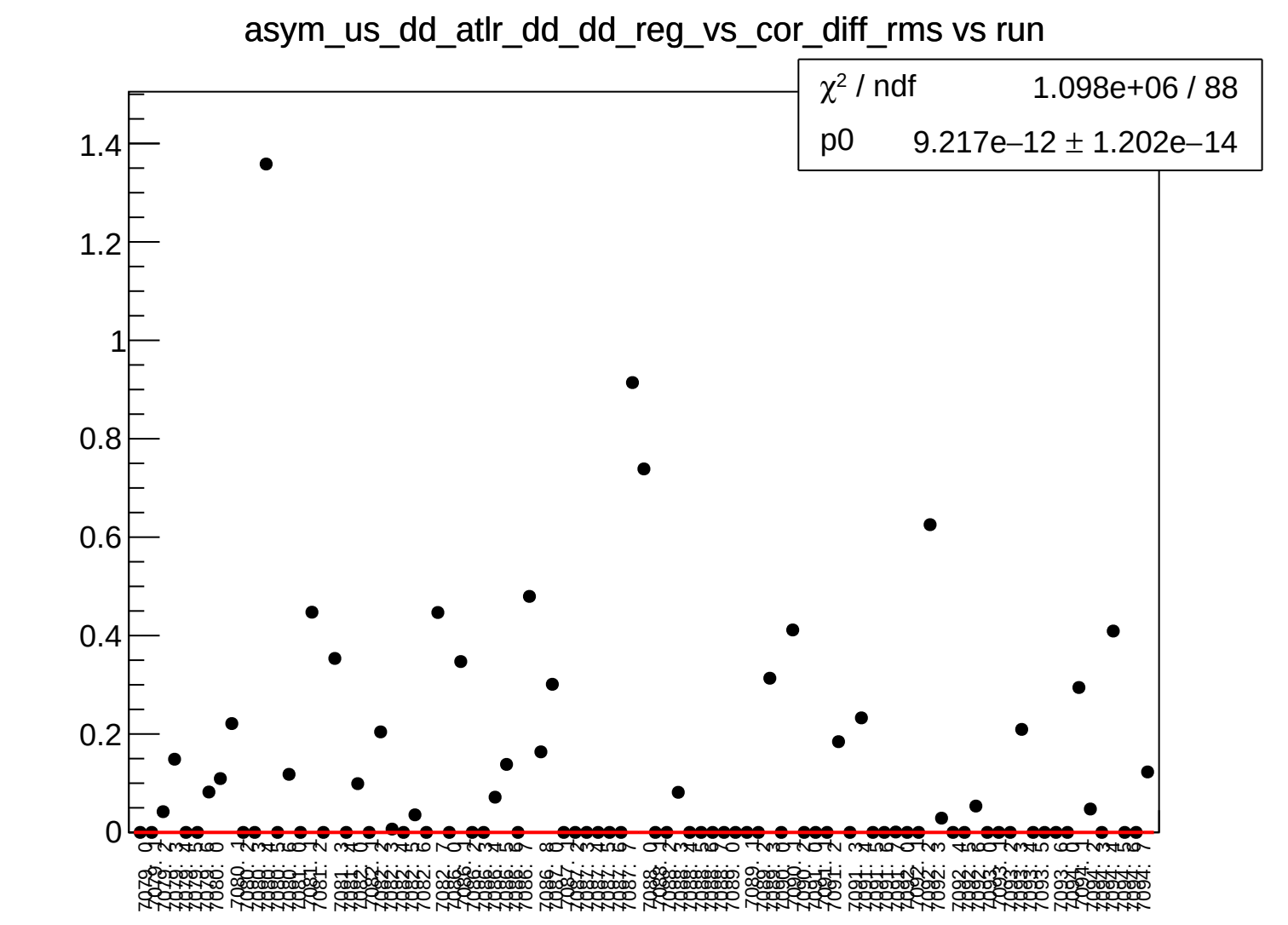

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 74.2 / 88
p0 1408 ± 1294
pull
Entries 89
Mean −175.8
Std Dev 0

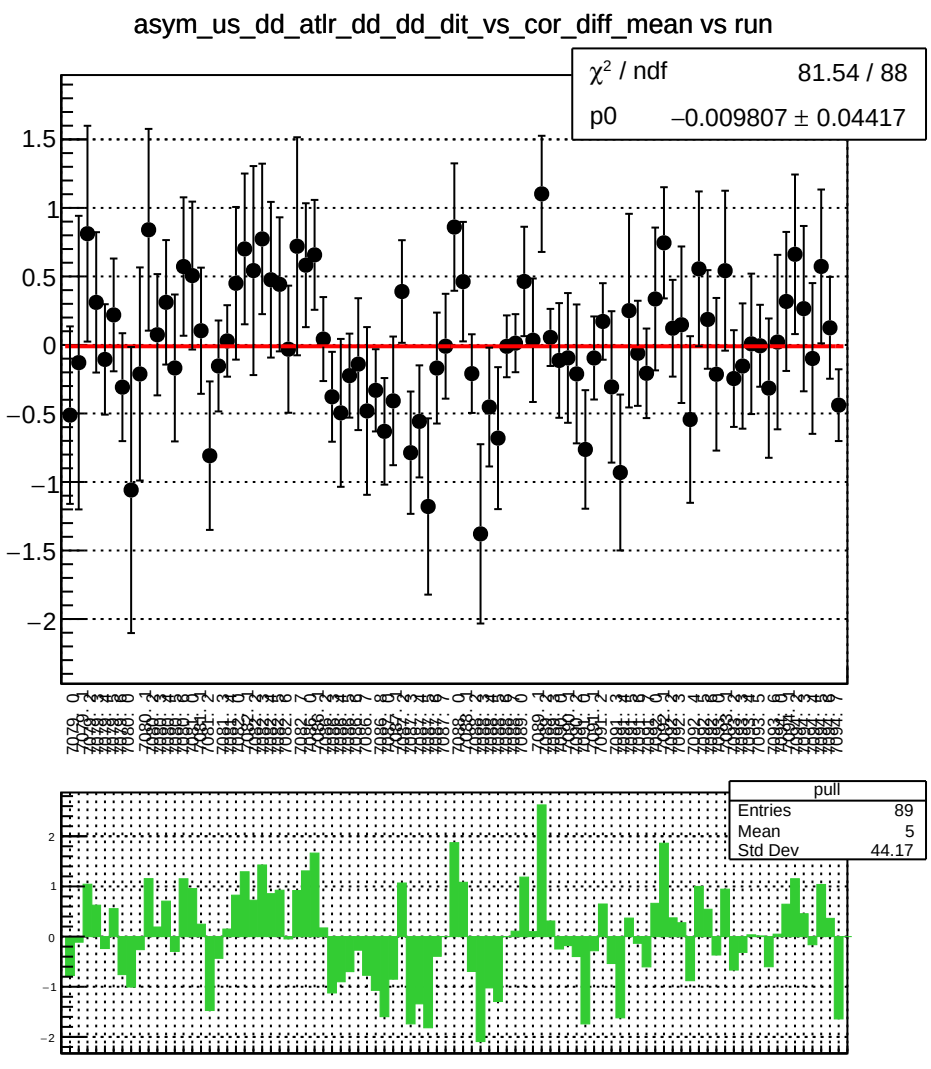

pull1D
Entries 89
Mean −0.005885
Std Dev 0.9131

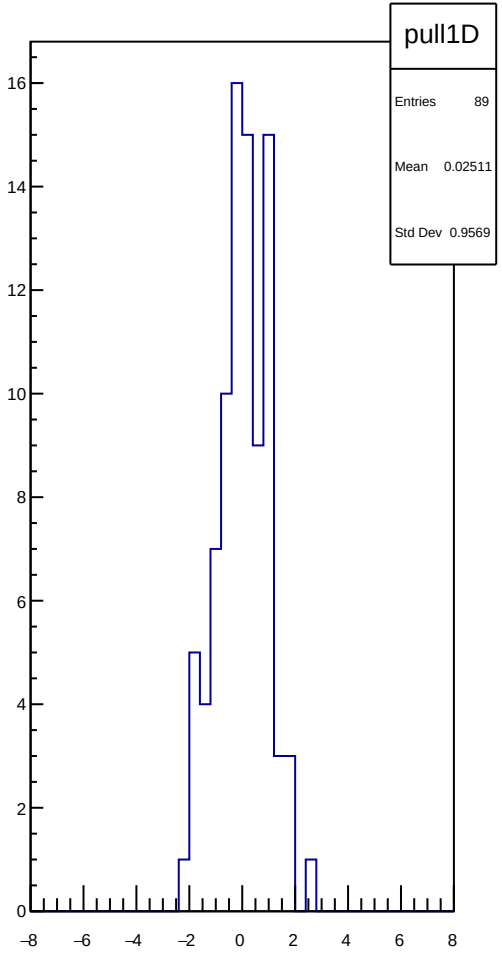

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 245.7 / 88
p0 1188 ± 0.9152
1240
1220
1200
1180
1160
1140

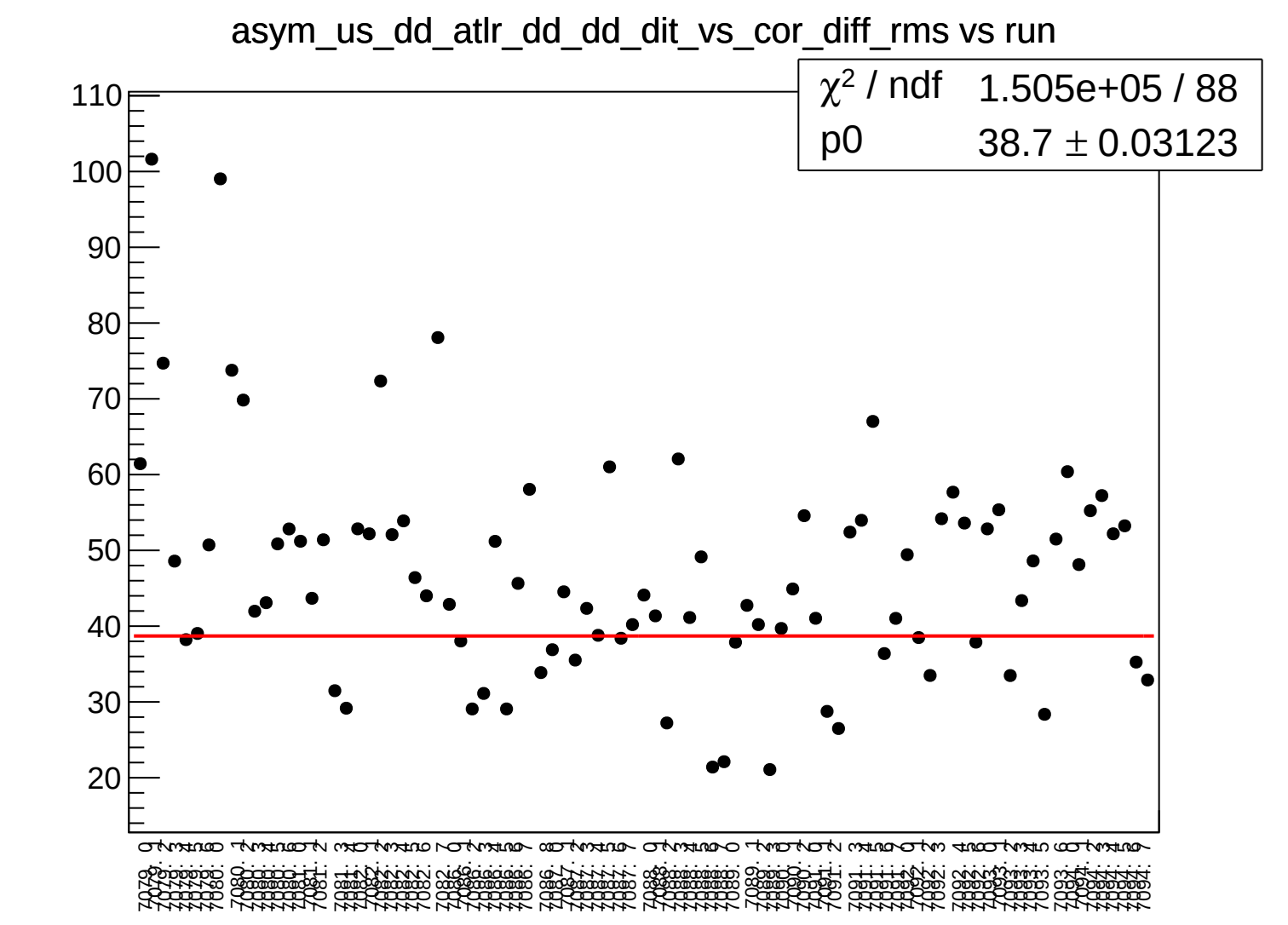

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.45 / 88
p0 −1.207e−14 ± 1.699e−14
pull
Entries 89
Mean 48.43
Std Dev 43.62

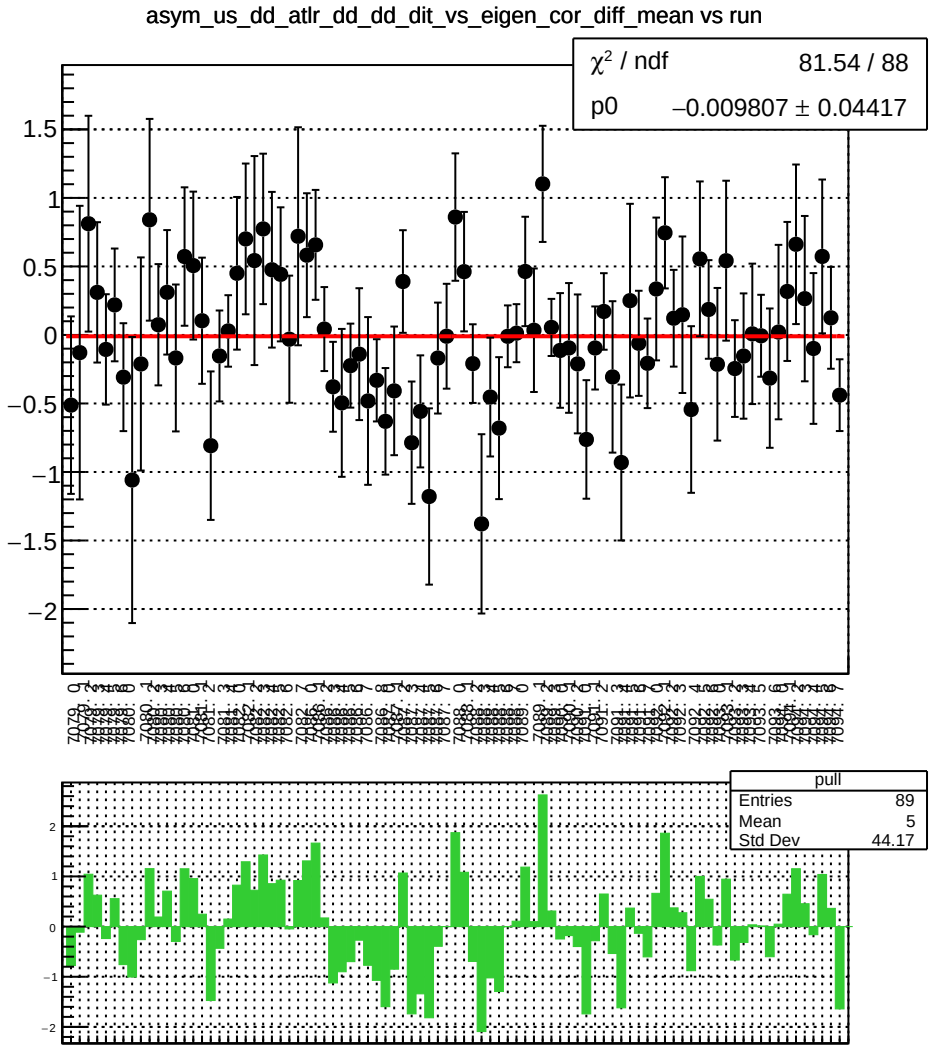

pull1D
Entries 89
Mean −0.05095
Std Dev 0.9728

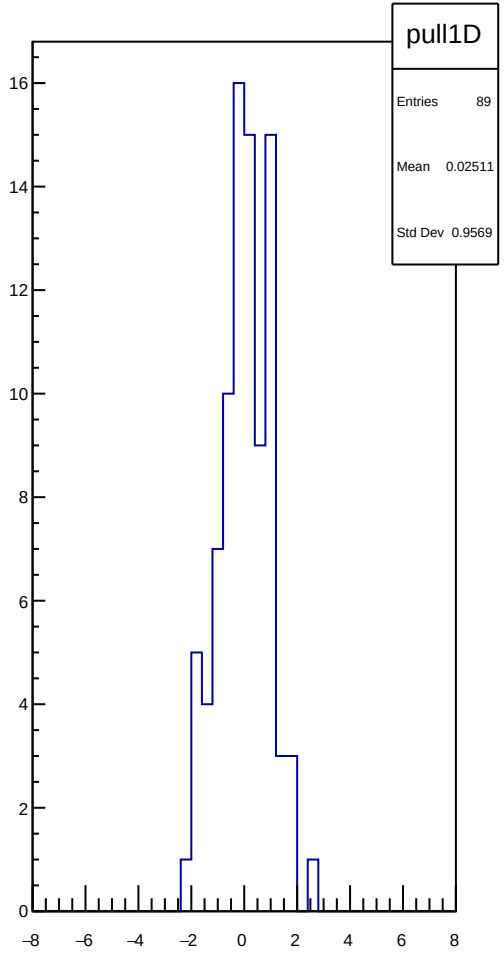

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 88
p0 9.217e−12 ± 1.202e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

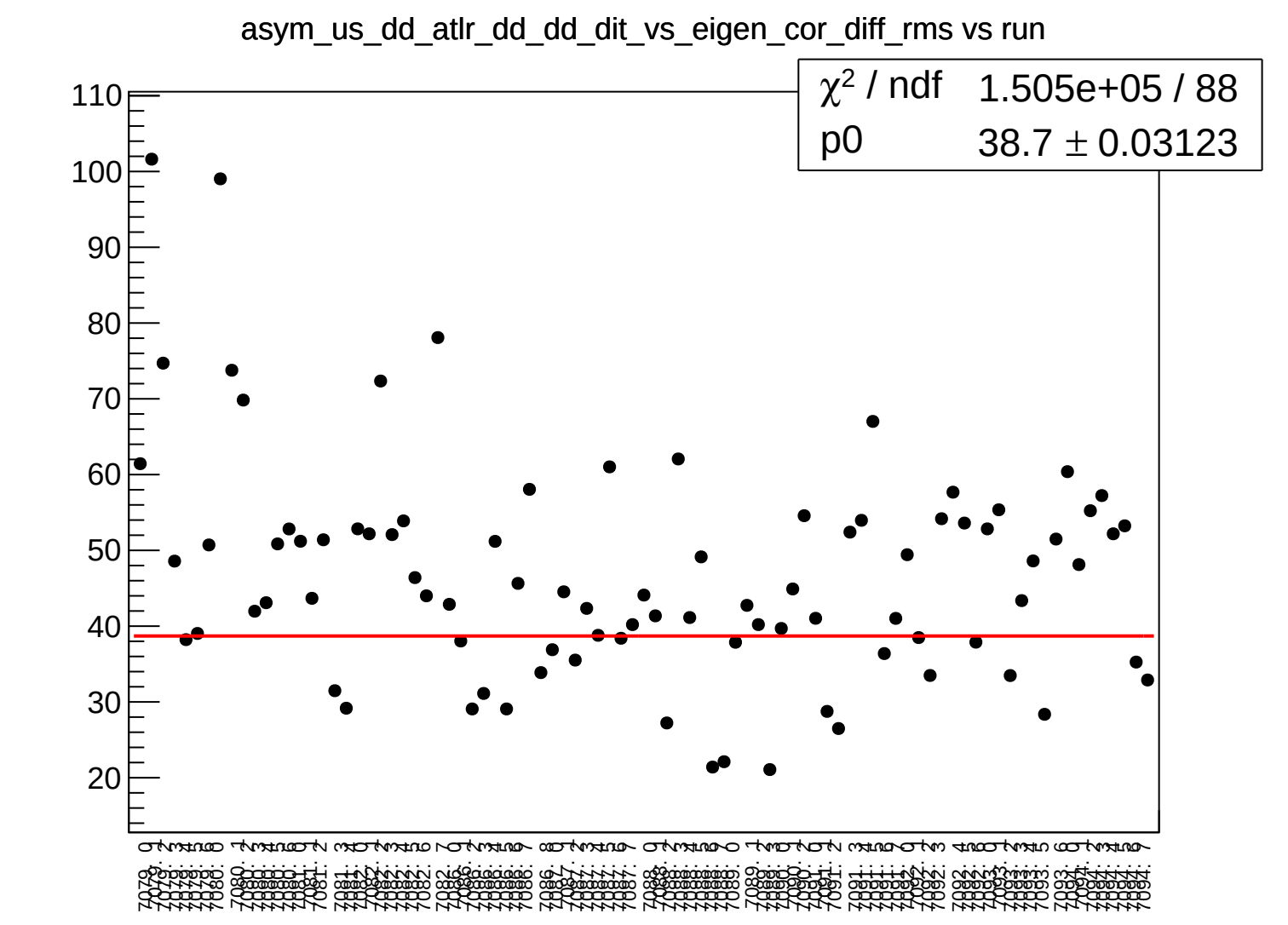

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.54 / 88
p0 −0.009807 ± 0.04417
pull
Entries 89
Mean 5
Std Dev 44.17

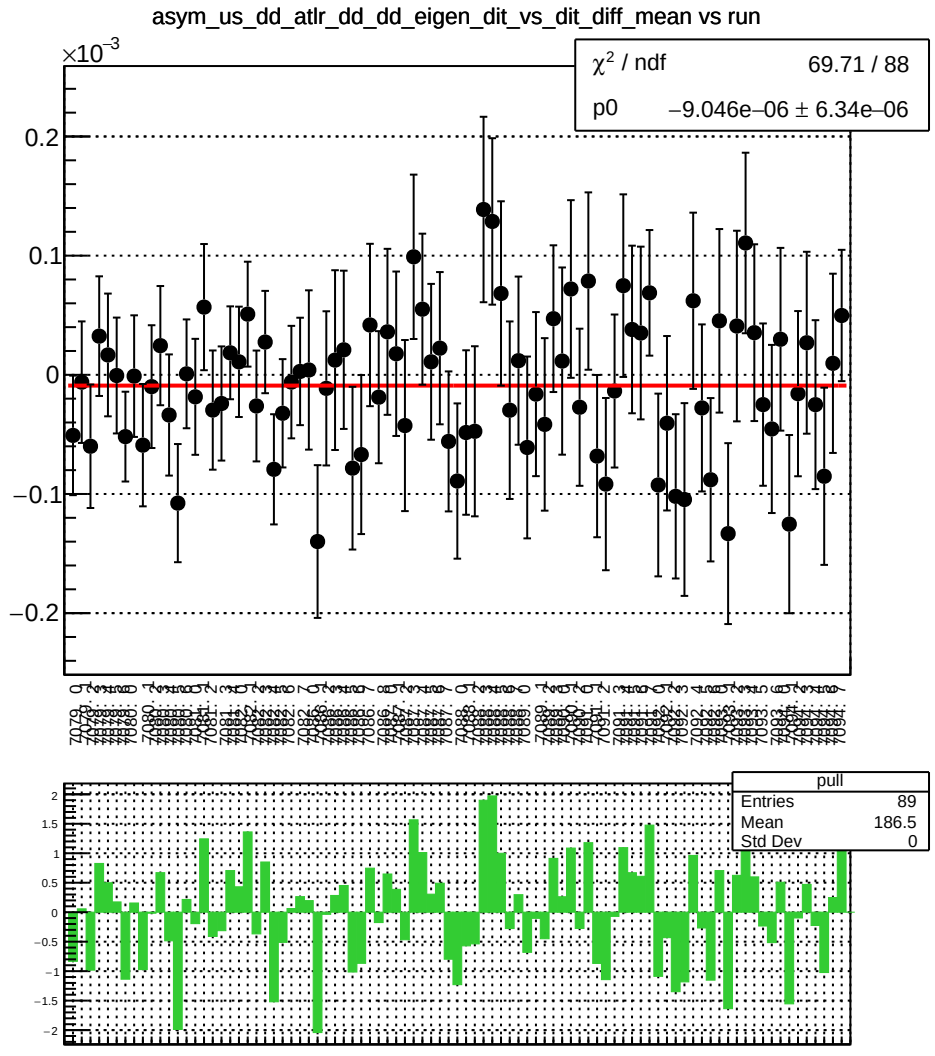

pull1D
Entries 89
Mean 0.02511
Std Dev 0.9569

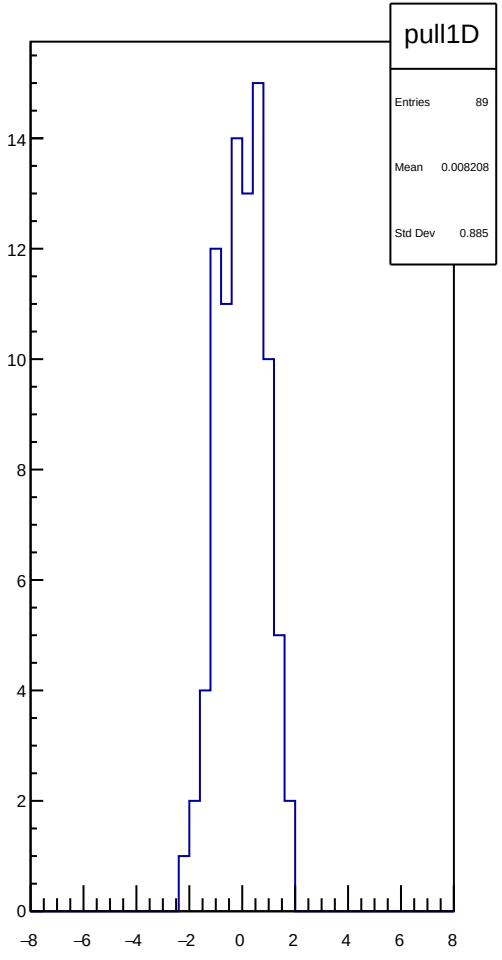

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 38.7 ± 0.03123
110
100
90
80
70
60
50
40
30
20

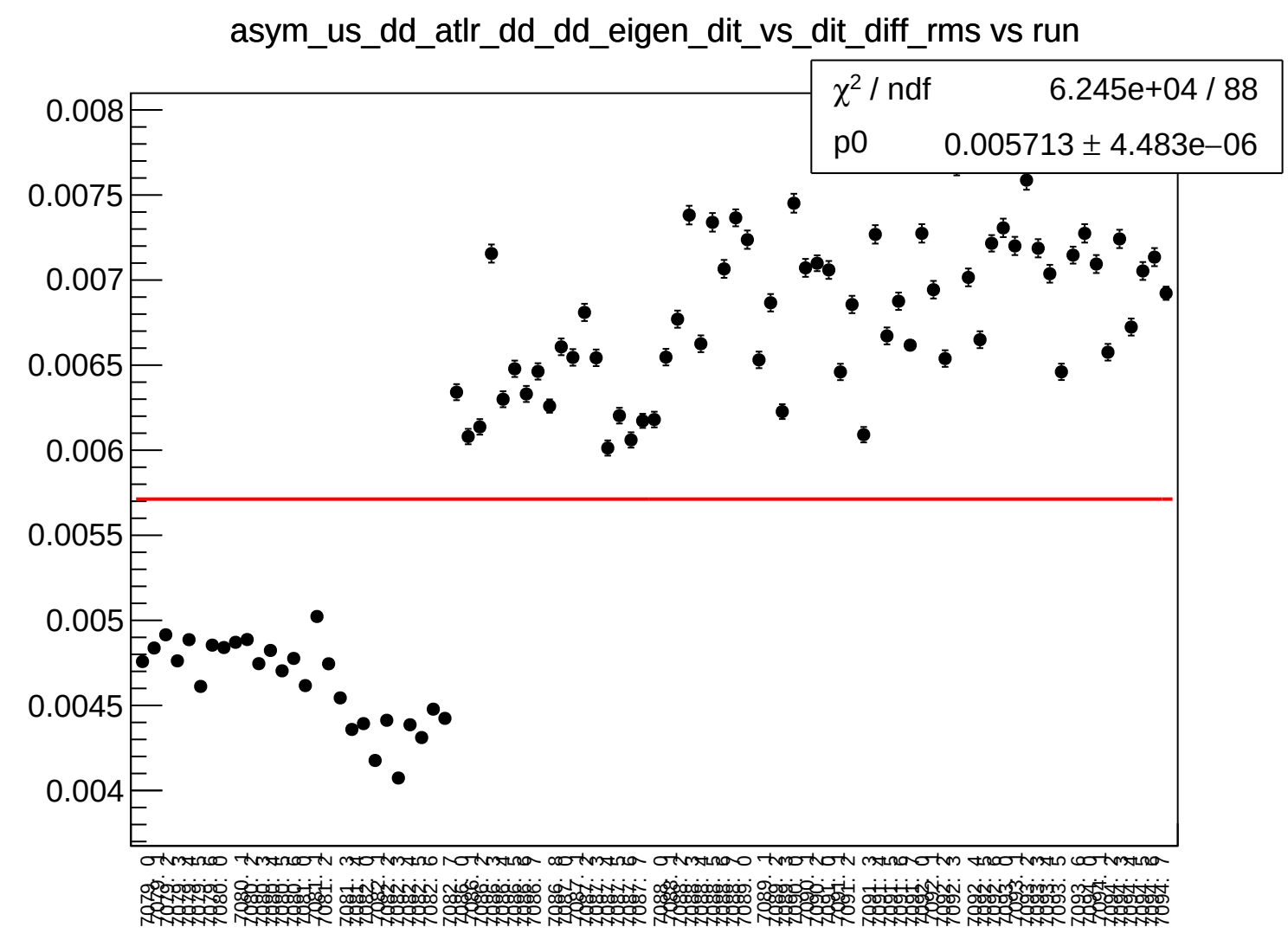

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.54 / 88
p0 −0.009807 ± 0.04417
pull
Entries 89
Mean 5
Std Dev 44.17

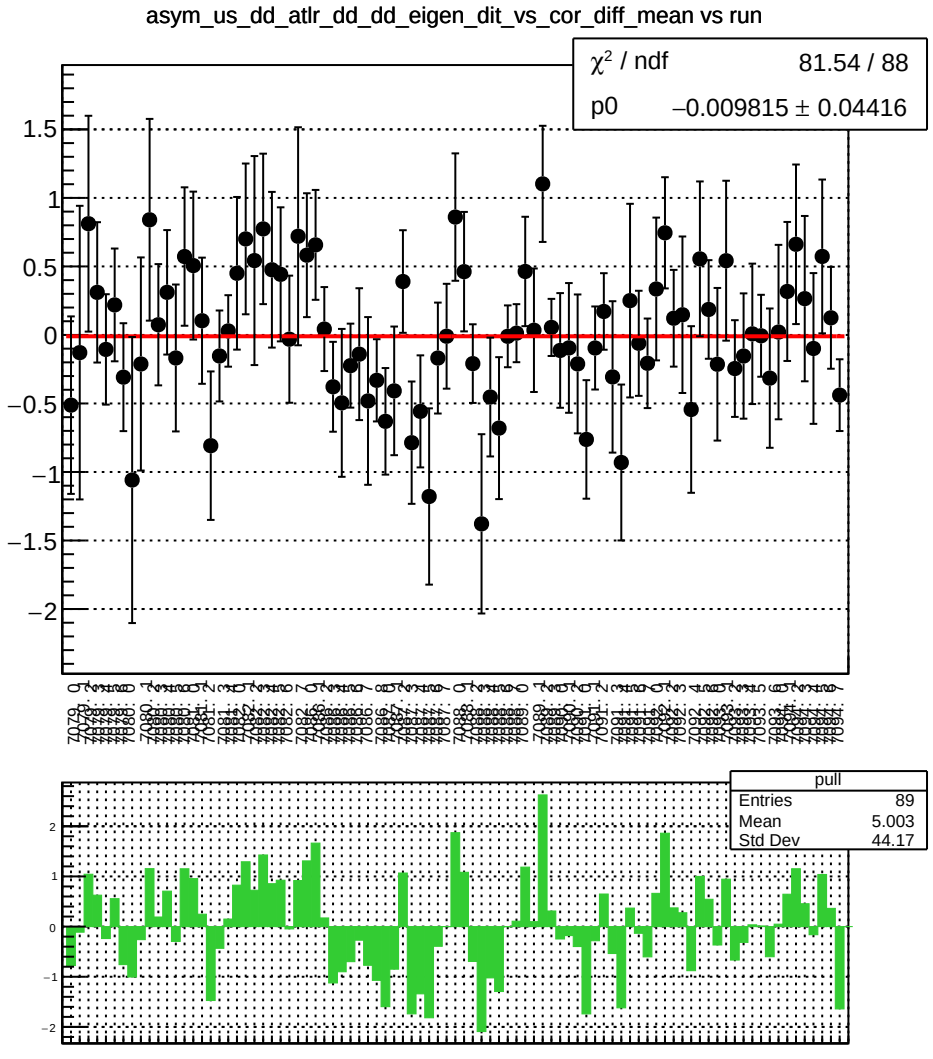

pull1D
Entries 89
Mean 0.02511
Std Dev 0.9569

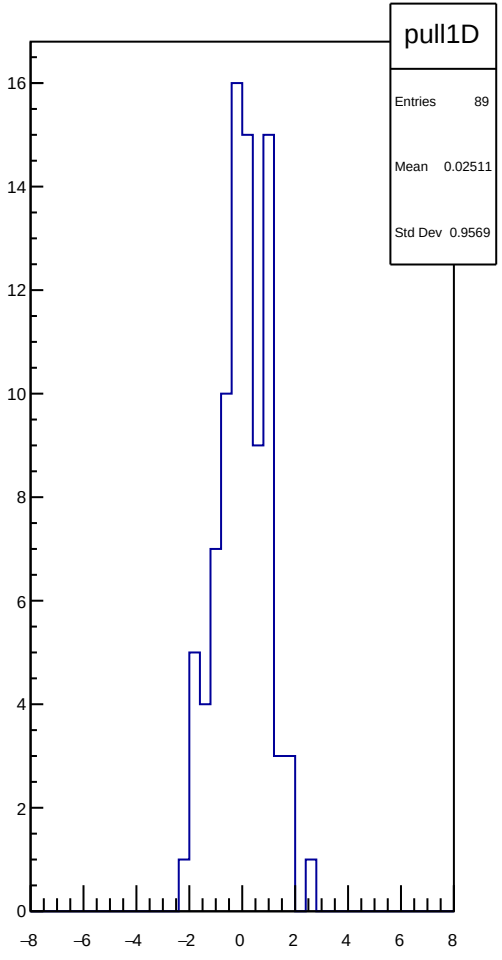

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 38.7 ± 0.03123
110
100
90
80
70
60
50
40
30
20

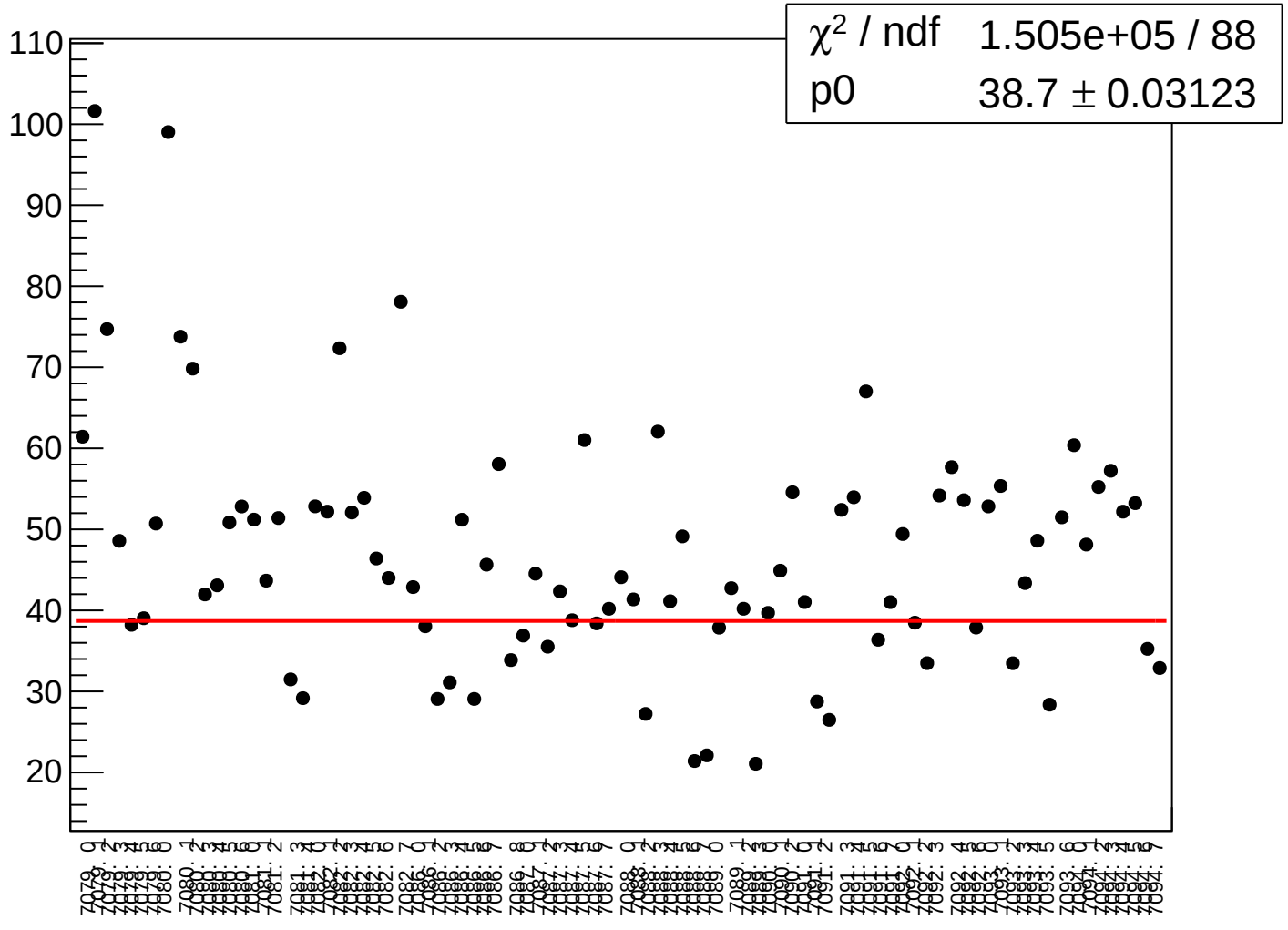

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 69.71 / 88
p0 −9.046e−06 ± 6.34e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean 186.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

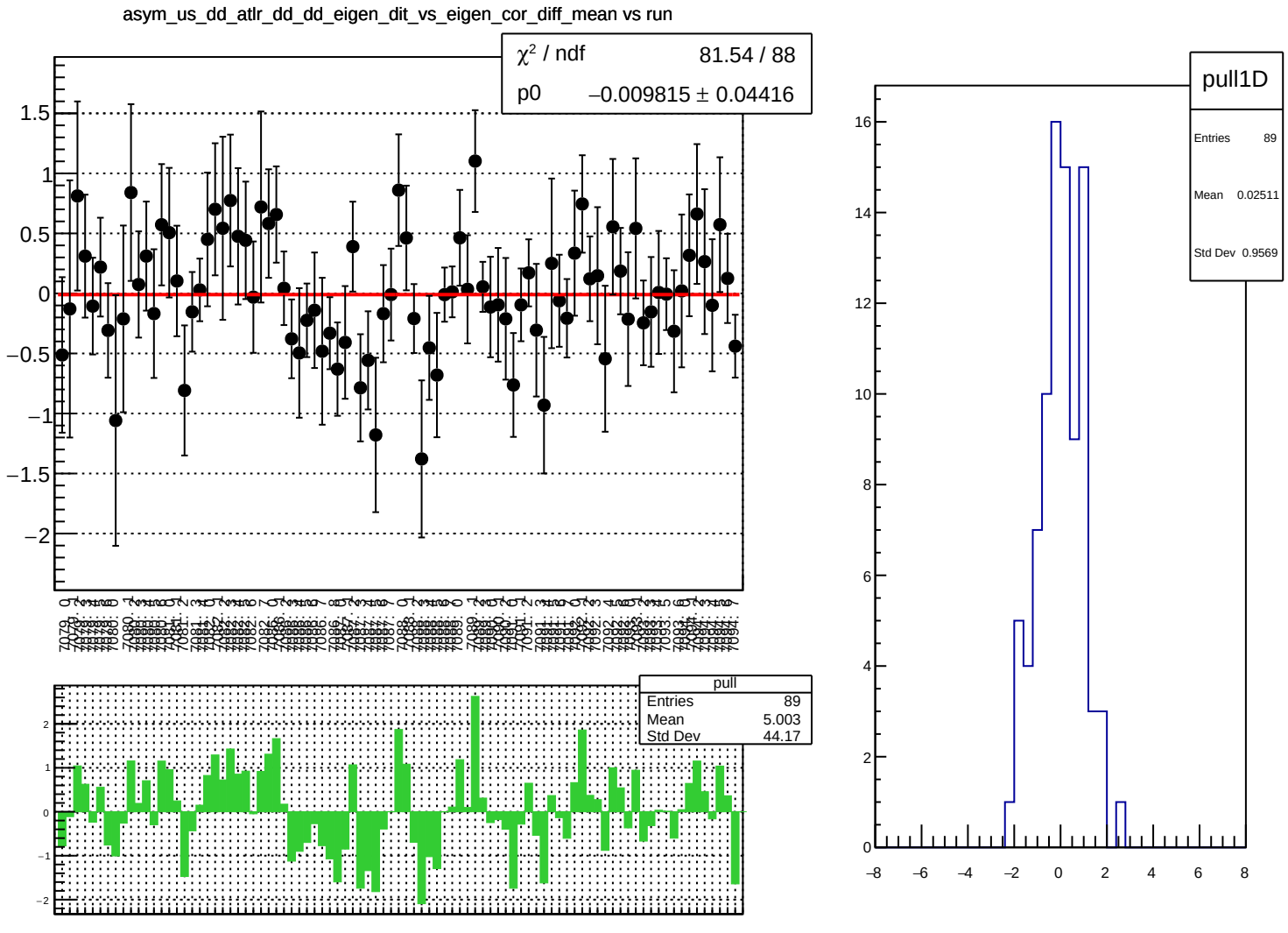

pull1D
Entries 89
Mean 0.008208
Std Dev 0.885
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

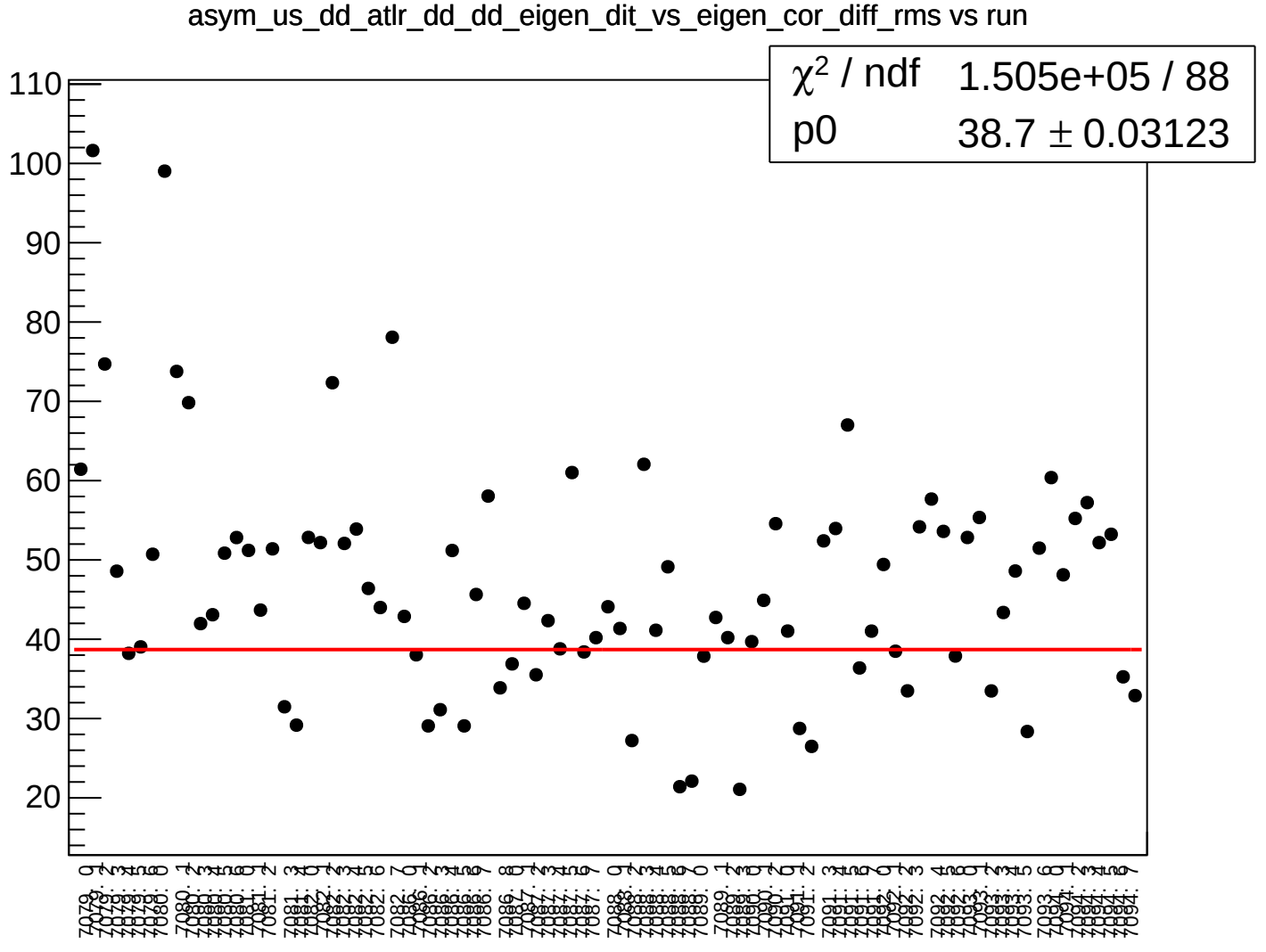

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.245e+04 / 88
p0 0.005713 ± 4.483e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

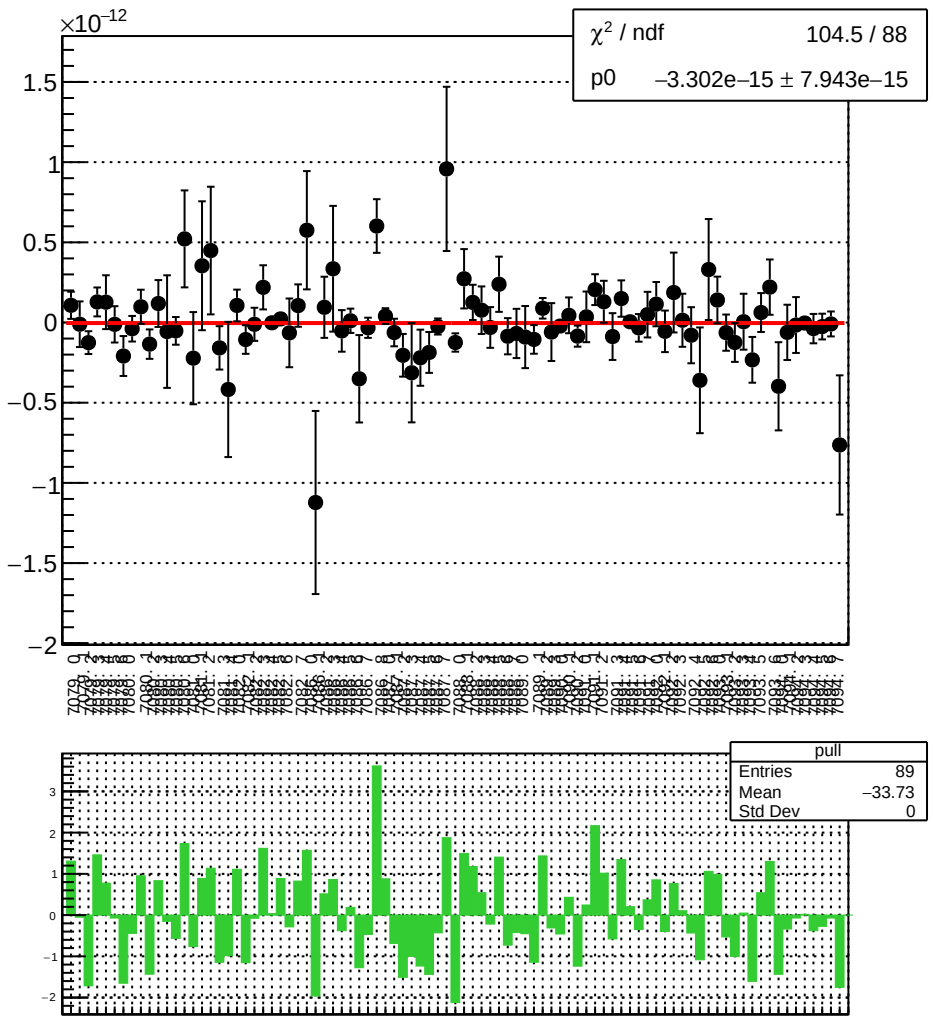

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.54 / 88
p0 −0.009815 ± 0.04416
pull
Entries 89
Mean 5.003
Std Dev 44.17

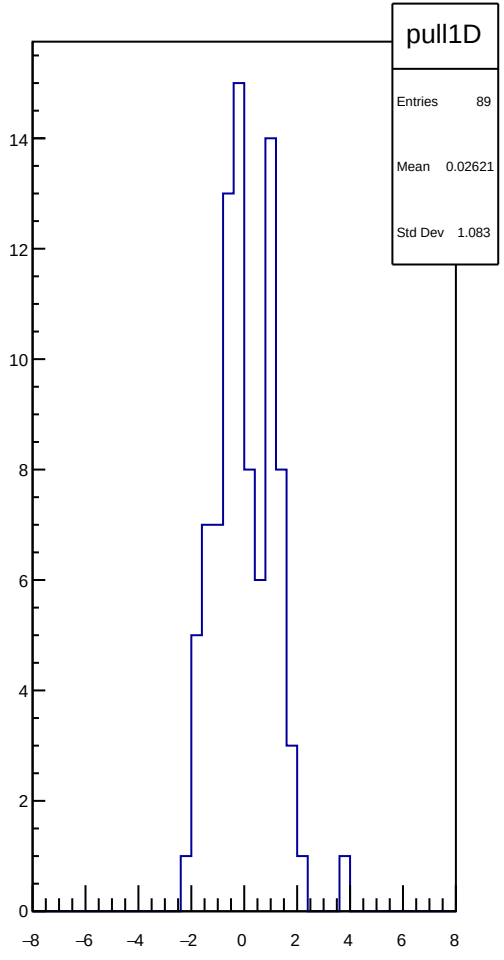

pull1D
Entries 89
Mean 0.02511
Std Dev 0.9569

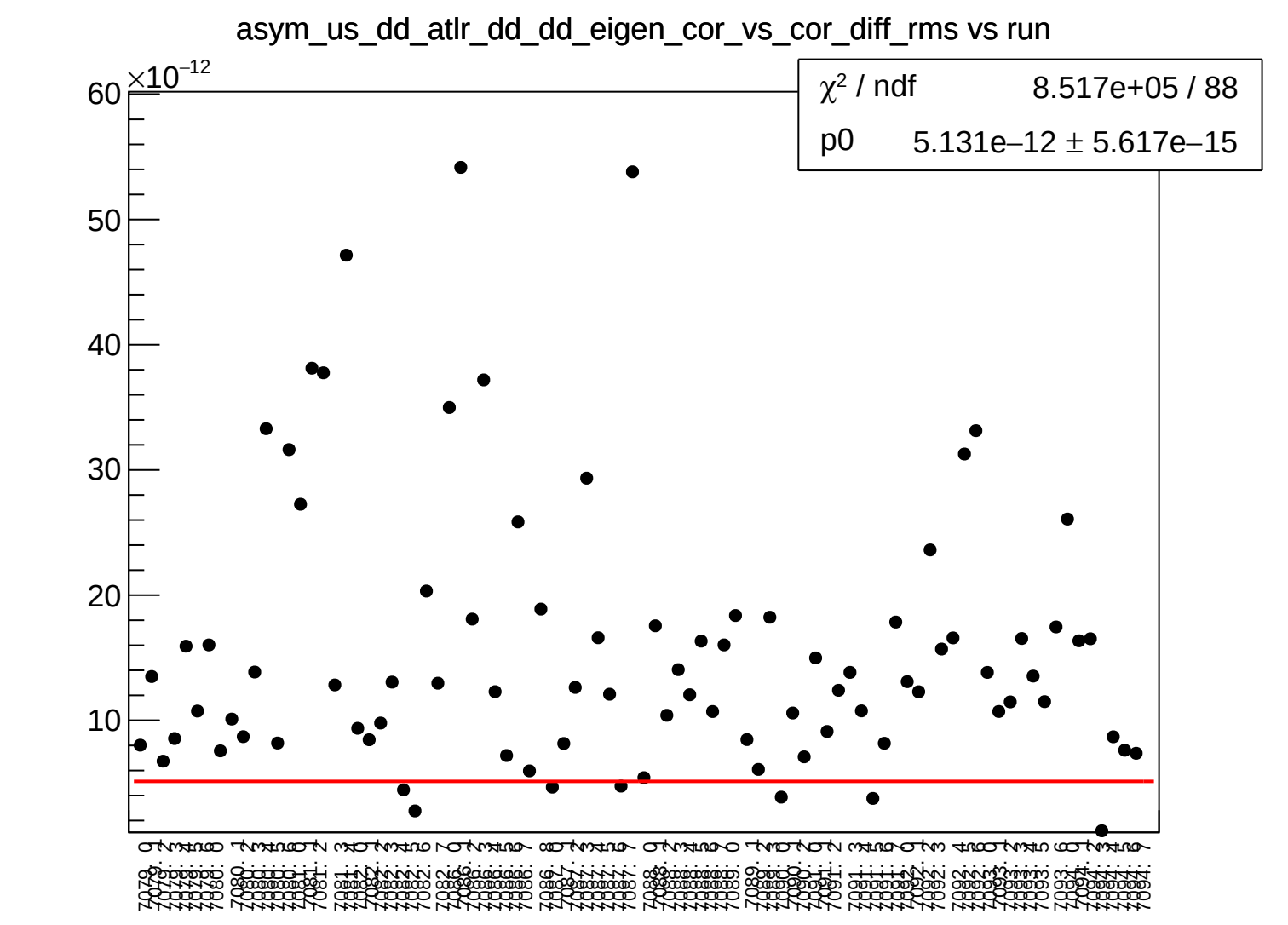

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 38.7 ± 0.03123
110
100
90
80
70
60
50
40
30
20

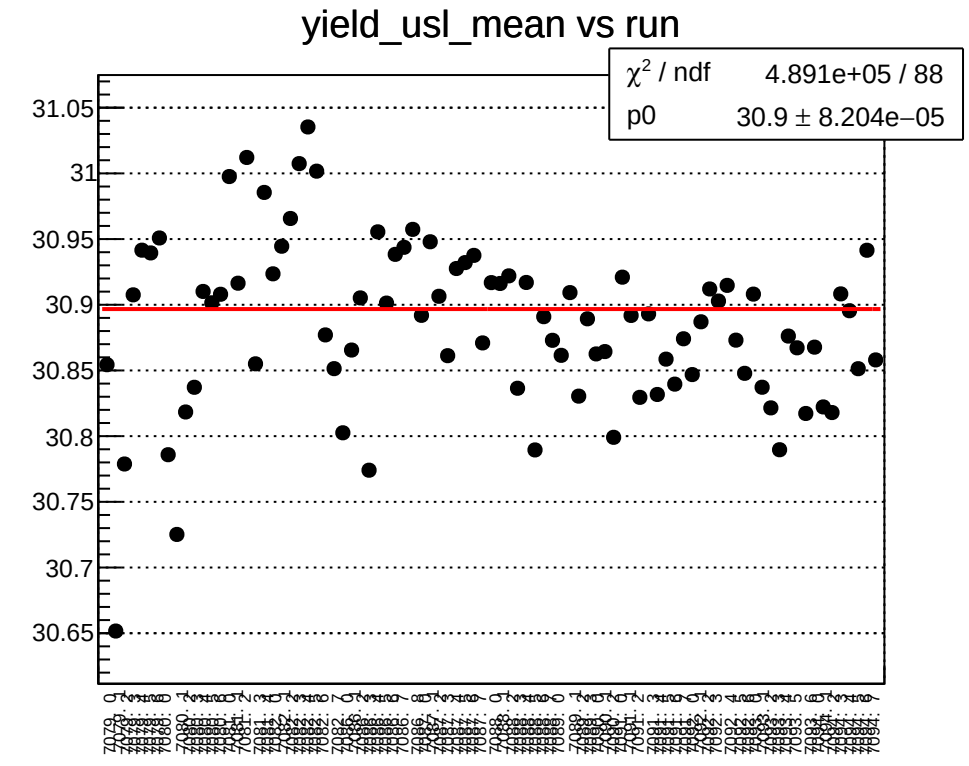

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.54 / 88
p0 −0.009815 ± 0.04416
pull
Entries 89
Mean 5.003
Std Dev 44.17
pull1D
Entries 89
Mean 0.02511
Std Dev 0.9569

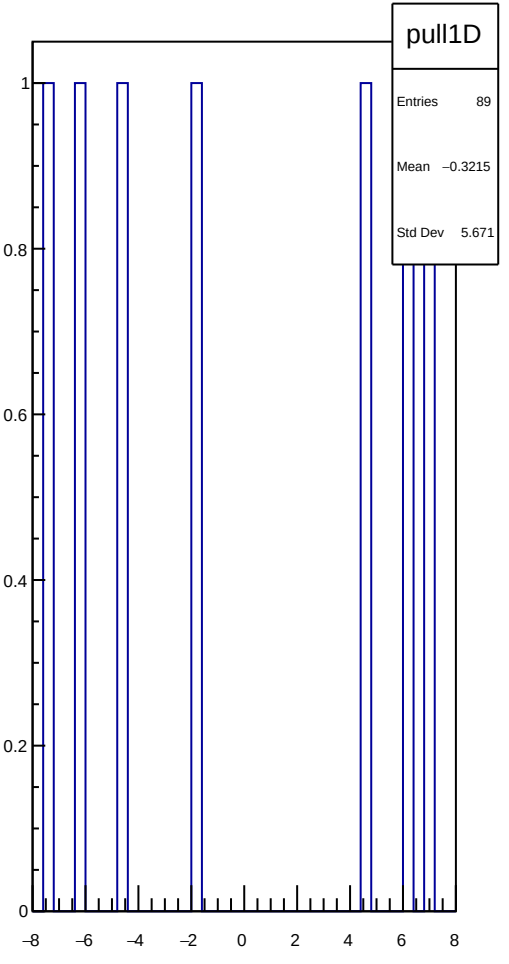

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 38.7 ± 0.03123
110
100
90
80
70
60
50
40
30
20

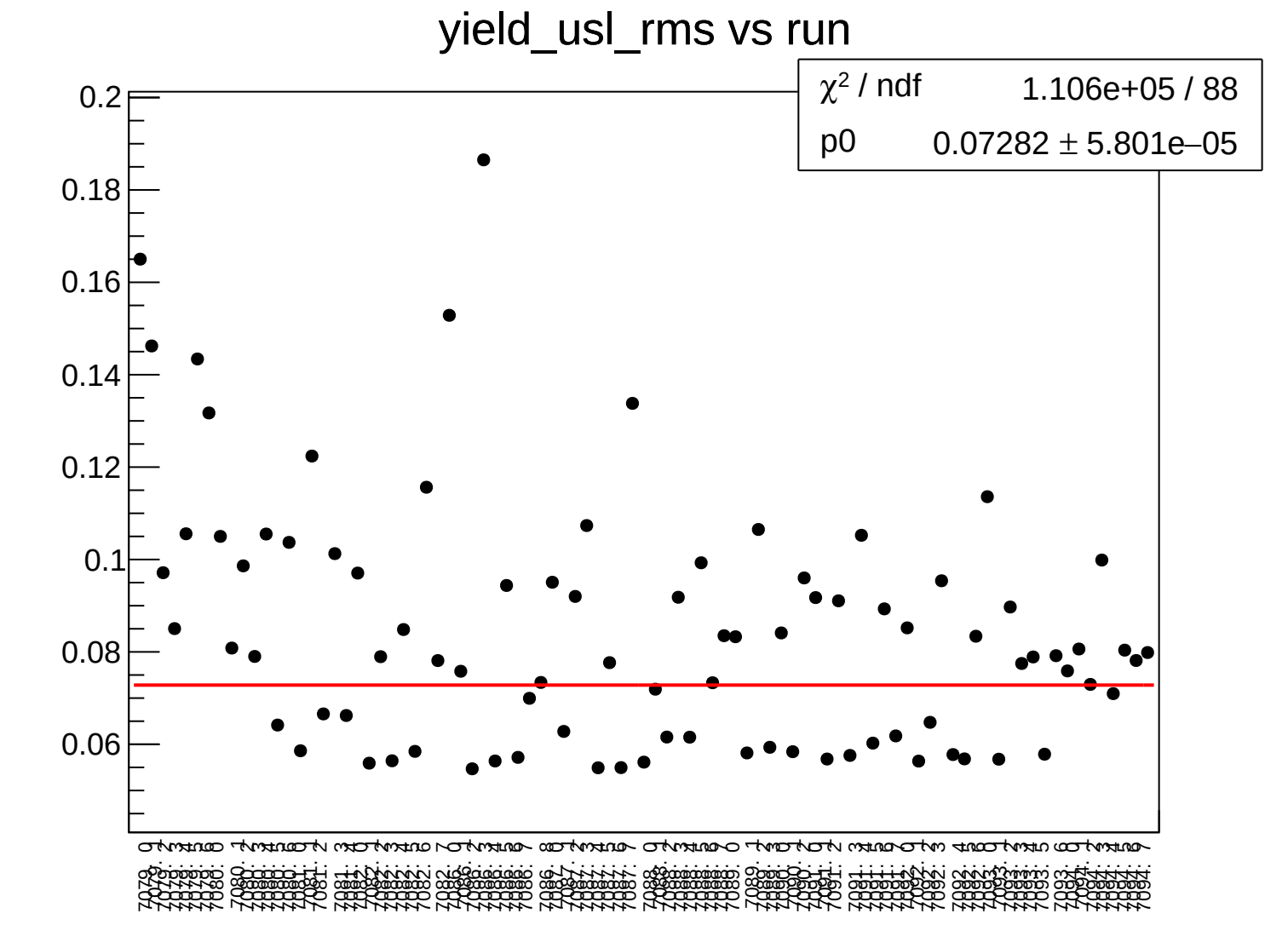

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.5 / 88
p0 −3.302e−15 ± 7.943e−15
pull
Entries 89
Mean −33.73
Std Dev 0

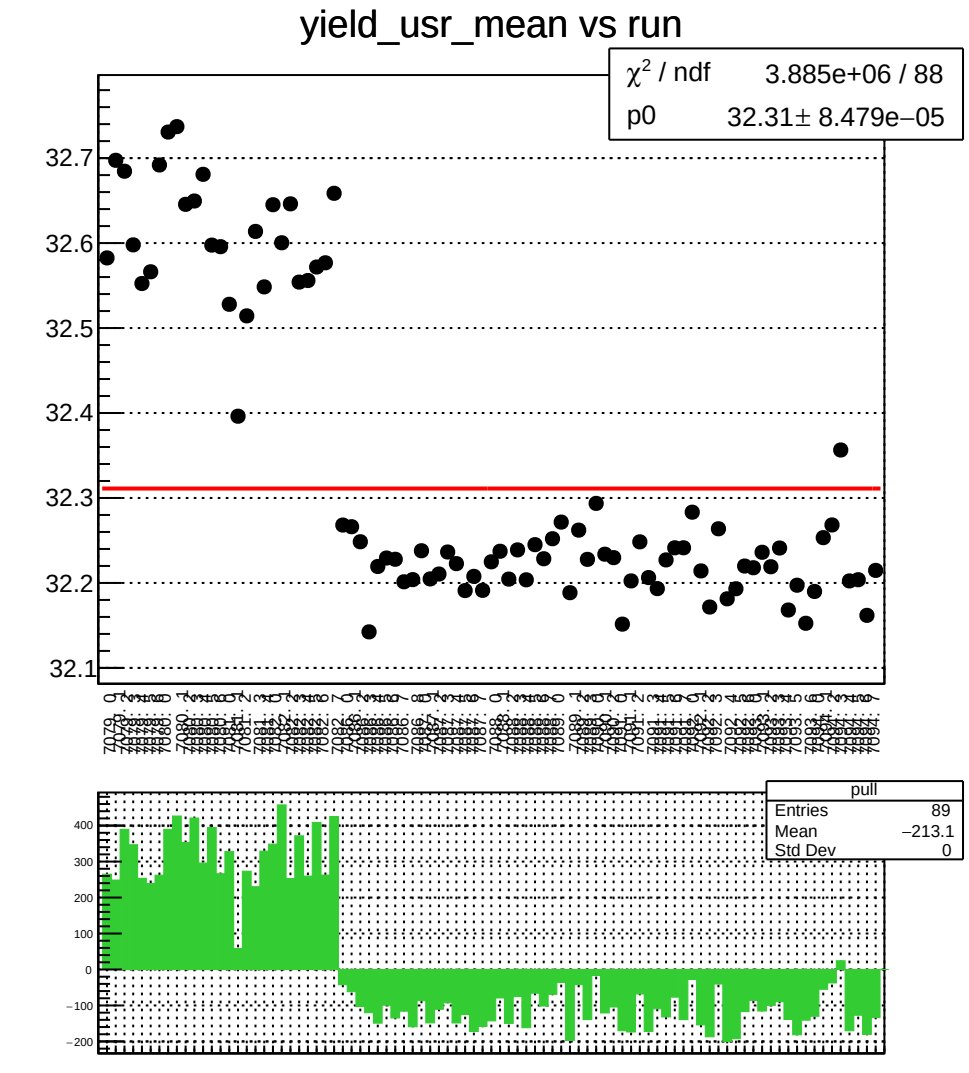

pull1D
Entries 89
Mean 0.02621
Std Dev 1.083

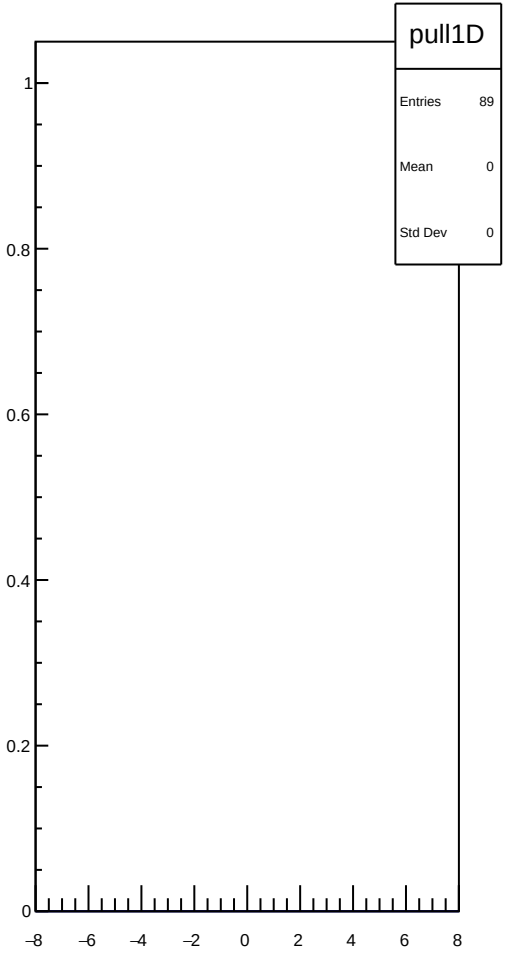

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 8.517e+05 / 88
p0 5.131e−12 ± 5.617e−15

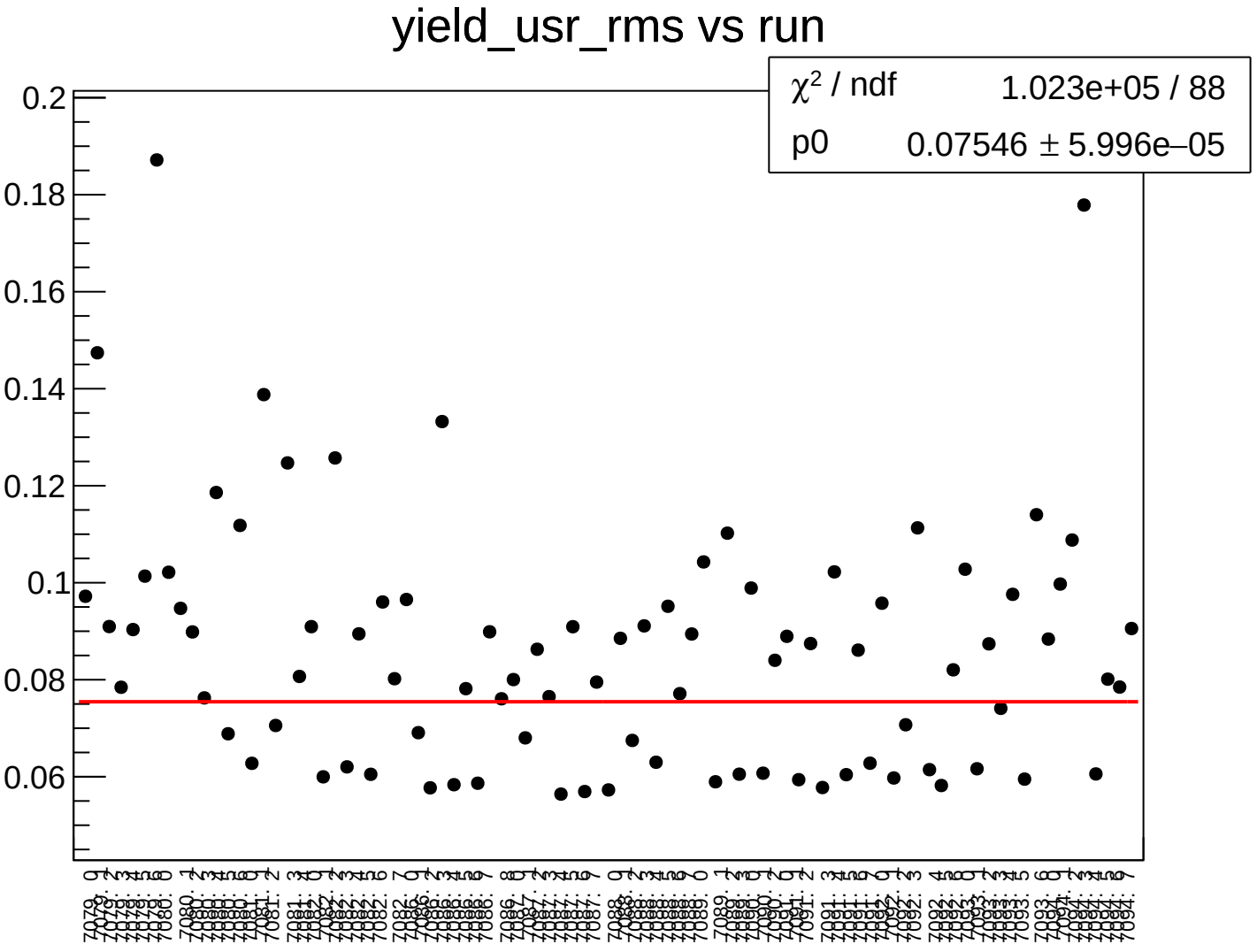

yield_usl_mean vs run
χ² / ndf 4.891e+05 / 88
p0 30.9 ± 8.204e−05
31.05
31
30.95
30.9
30.85
30.8
30.75
30.7
30.65
pull
Entries 89
Mean 117.3
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

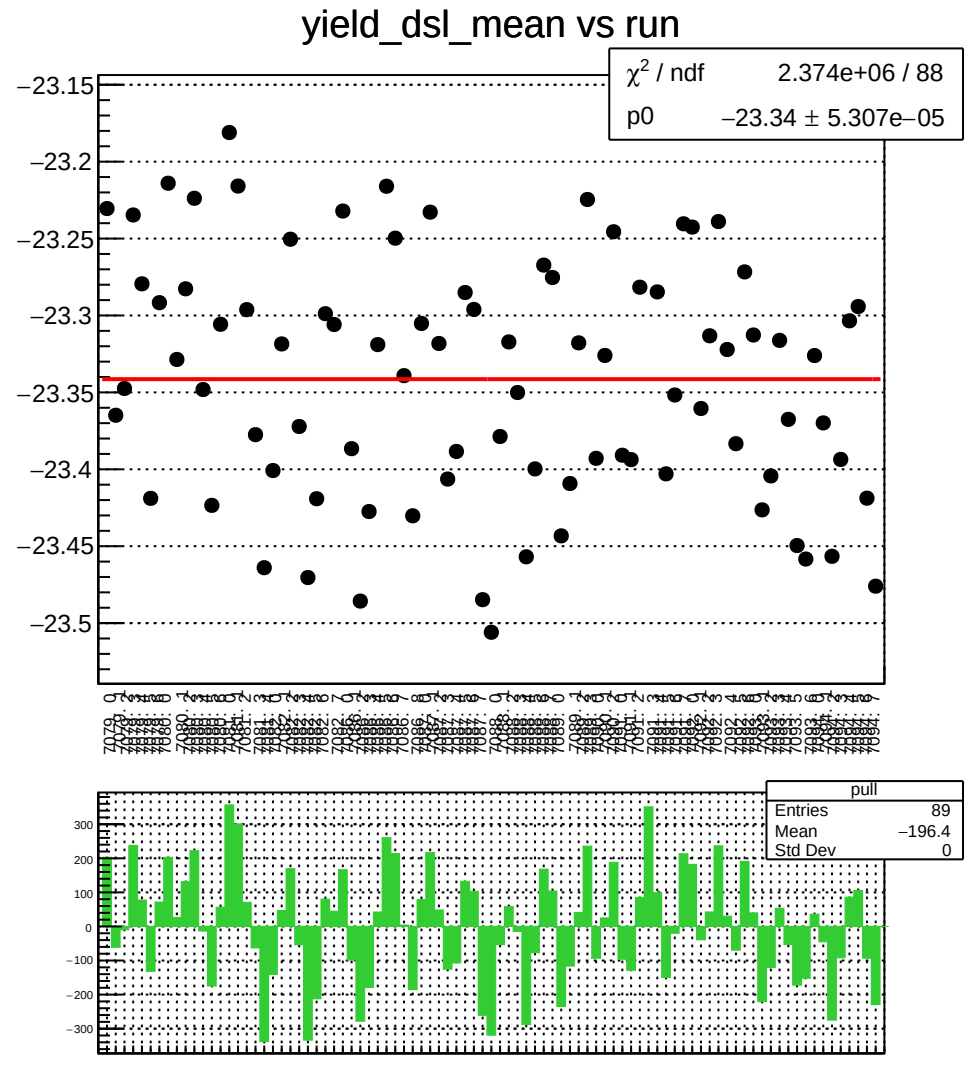

pull1D
Entries 89
Mean −0.3215
Std Dev 5.671
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

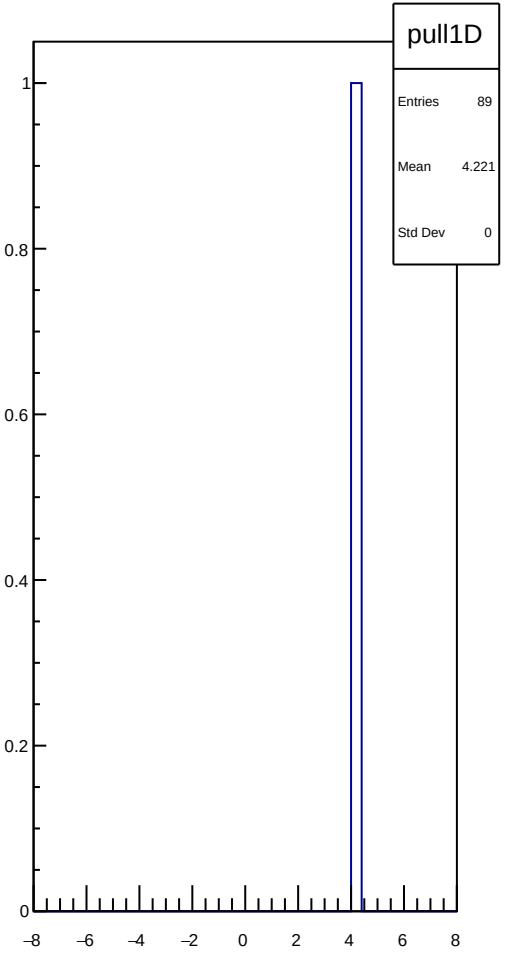

yield_usl_rms vs run
χ² / ndf 1.106e+05 / 88
p0 0.07282 ± 5.801e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

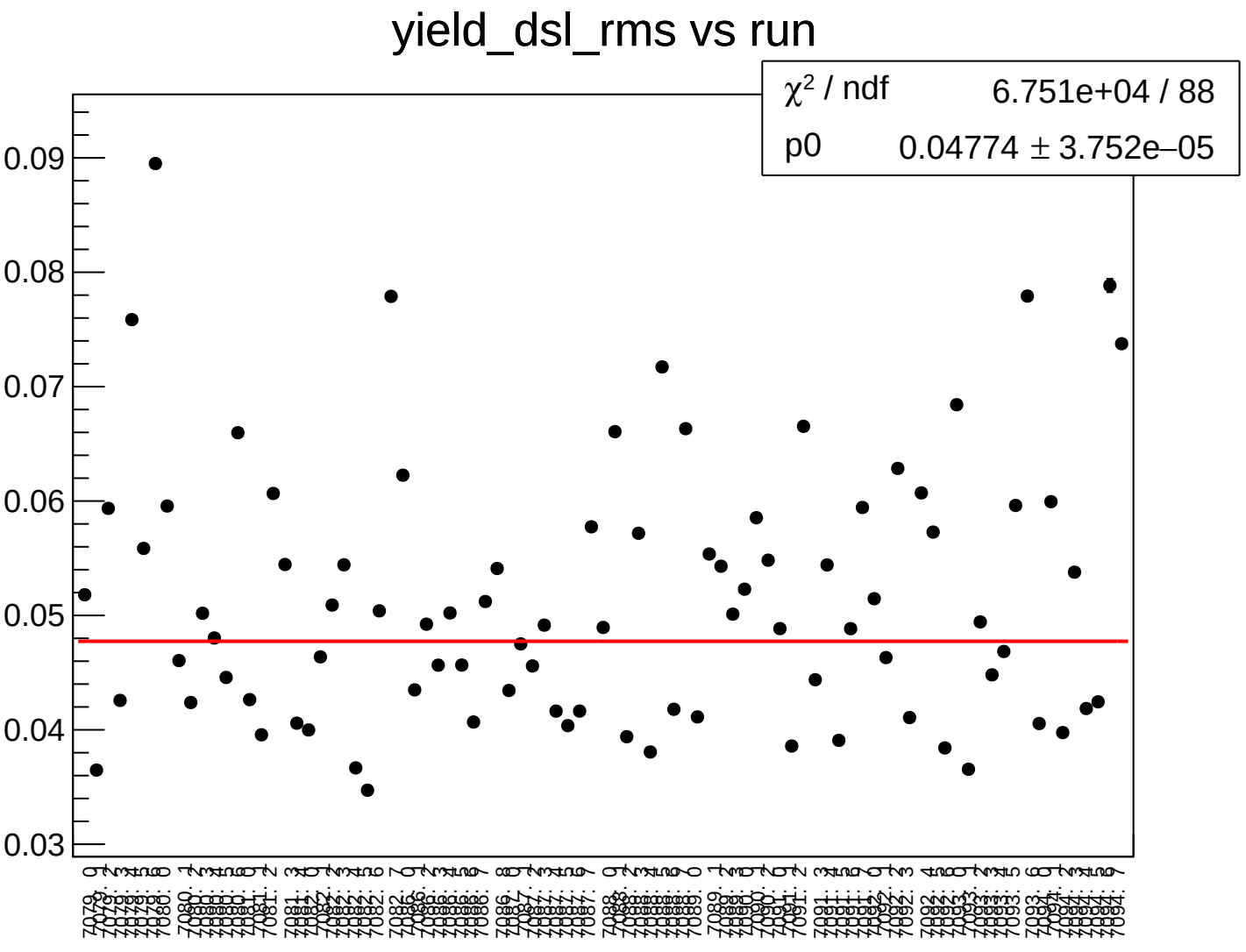

yield_usr_mean vs run
χ² / ndf 3.885e+06 / 88
p0 32.31± 8.479e−05
32.7
32.6
32.5
32.4
32.3
32.2
32.1
pull
Entries 89
Mean −213.1
Std Dev 0
400
300
200
100
0
−100
−200

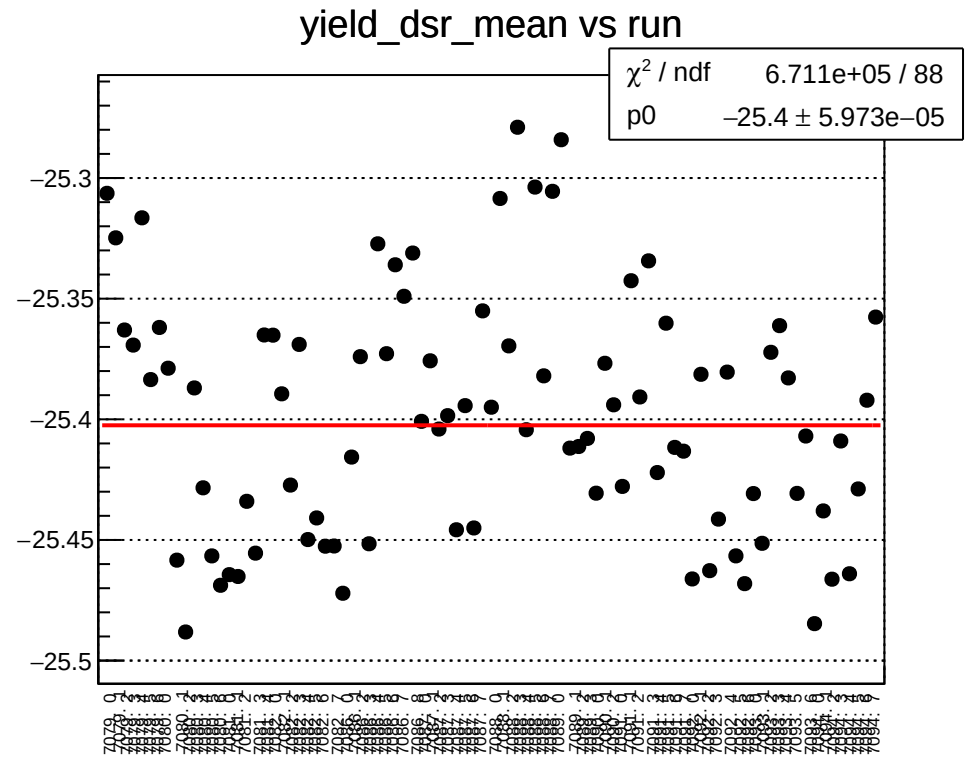

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

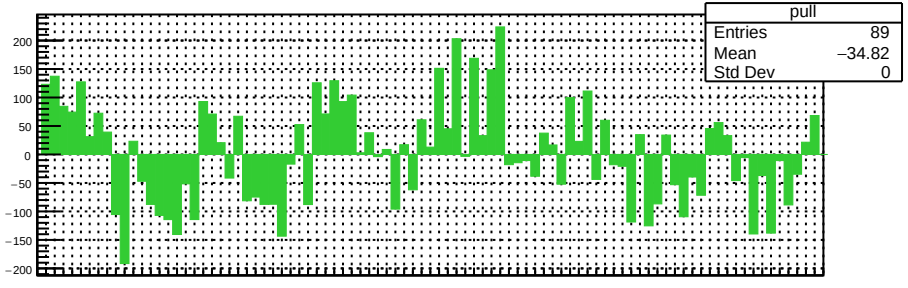

yield_usr_rms vs run
χ² / ndf 1.023e+05 / 88
p0 0.07546 ± 5.996e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

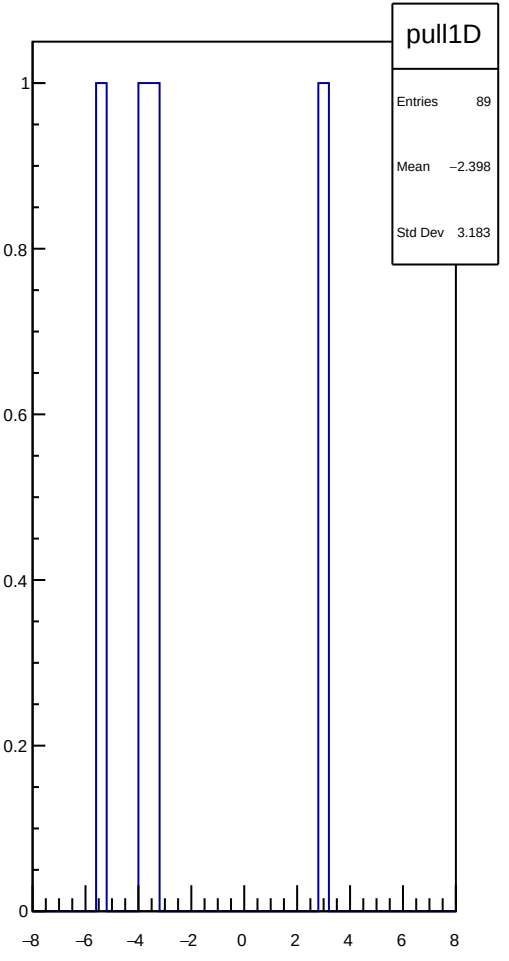

yield_dsl_mean vs run
χ² / ndf 2.374e+06 / 88
p0 −23.34 ± 5.307e−05
−23.15
−23.2
−23.25
−23.3
−23.35
−23.4
−23.45
−23.5
pull
Entries 89
Mean −196.4
Std Dev 0
300
200
100
0
−100
−200
−300

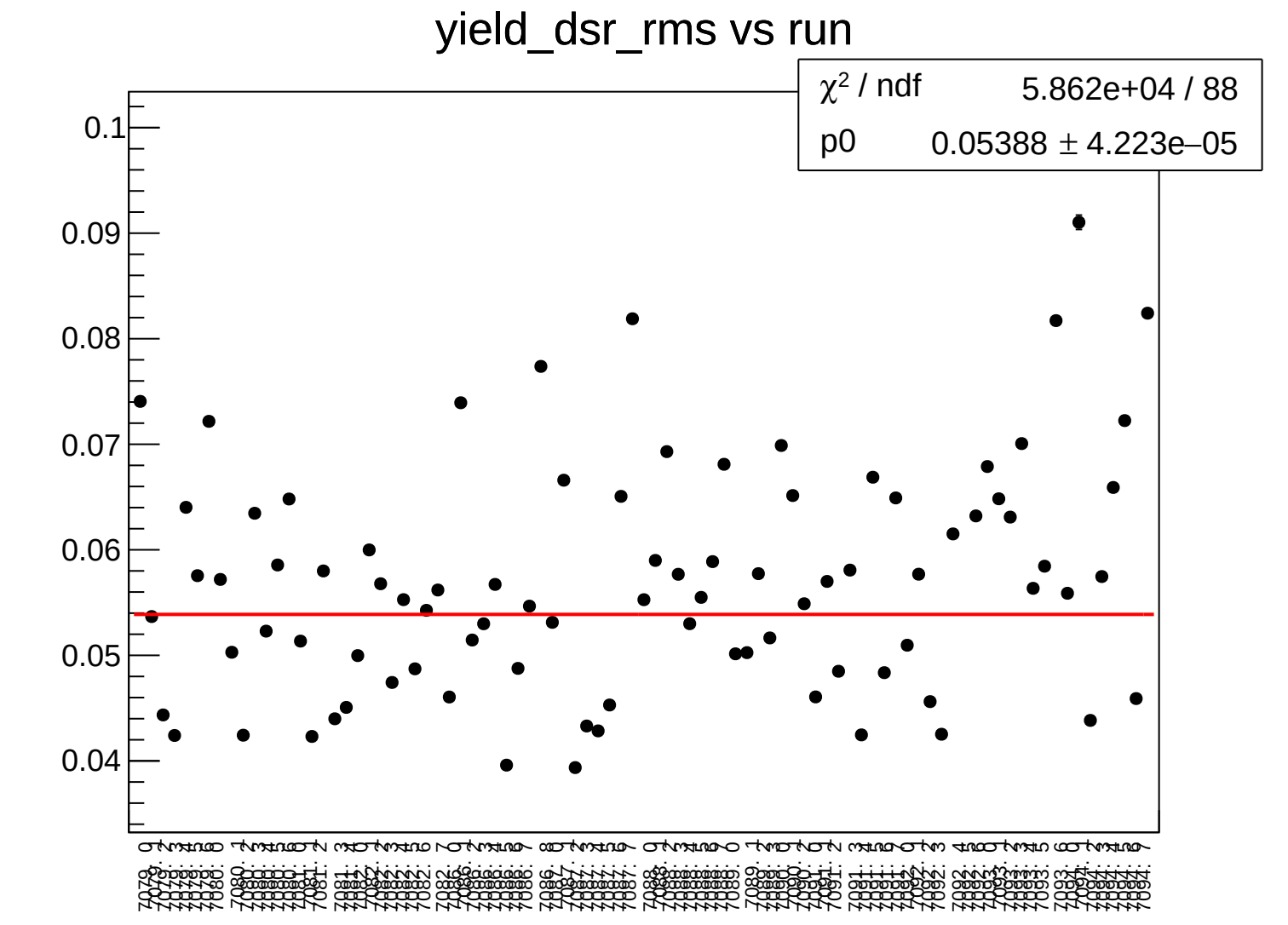

pull1D
Entries 89
Mean 4.221
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

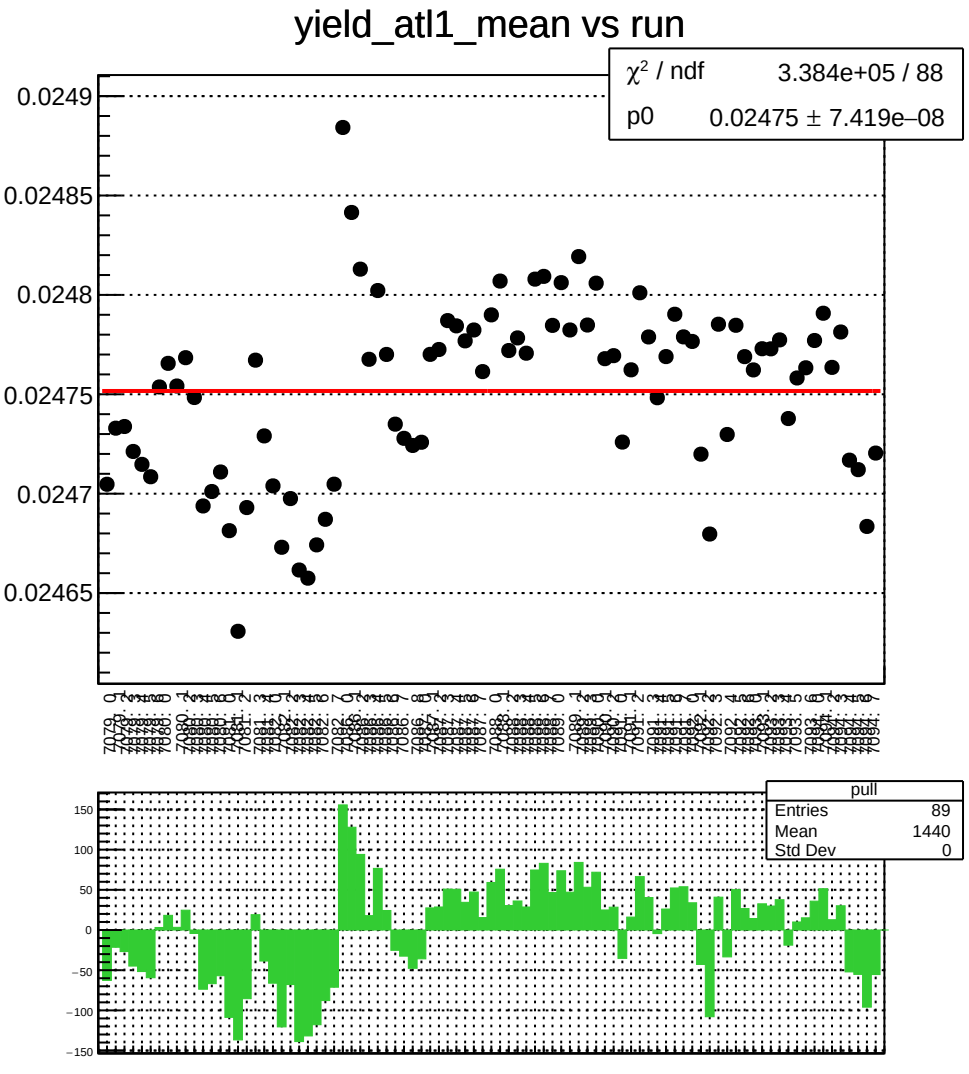

yield_dsl_rms vs run
χ² / ndf 6.751e+04 / 88
p0 0.04774 ± 3.752e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03

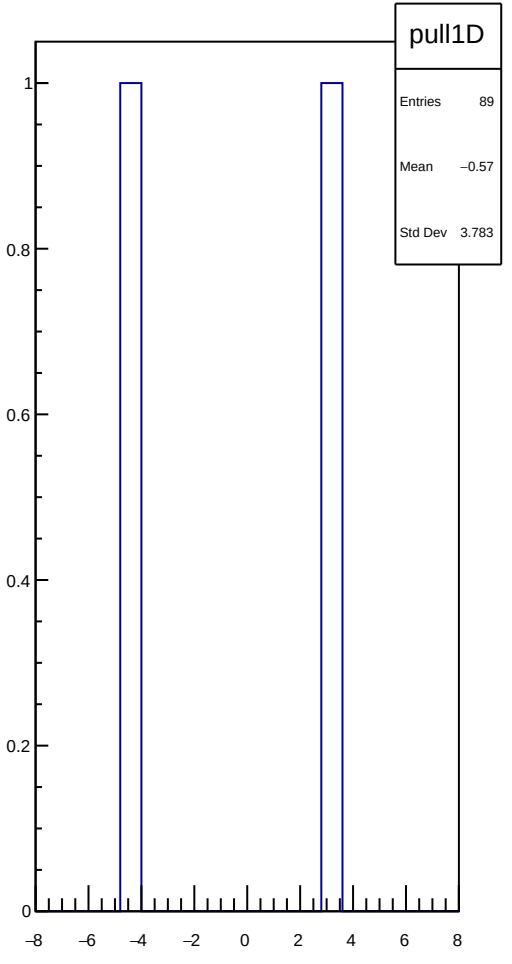

yield_dsr_mean vs run
χ² / ndf 6.711e+05 / 88
p0 −25.4 ± 5.973e−05
−25.3
−25.35
−25.4
−25.45
−25.5

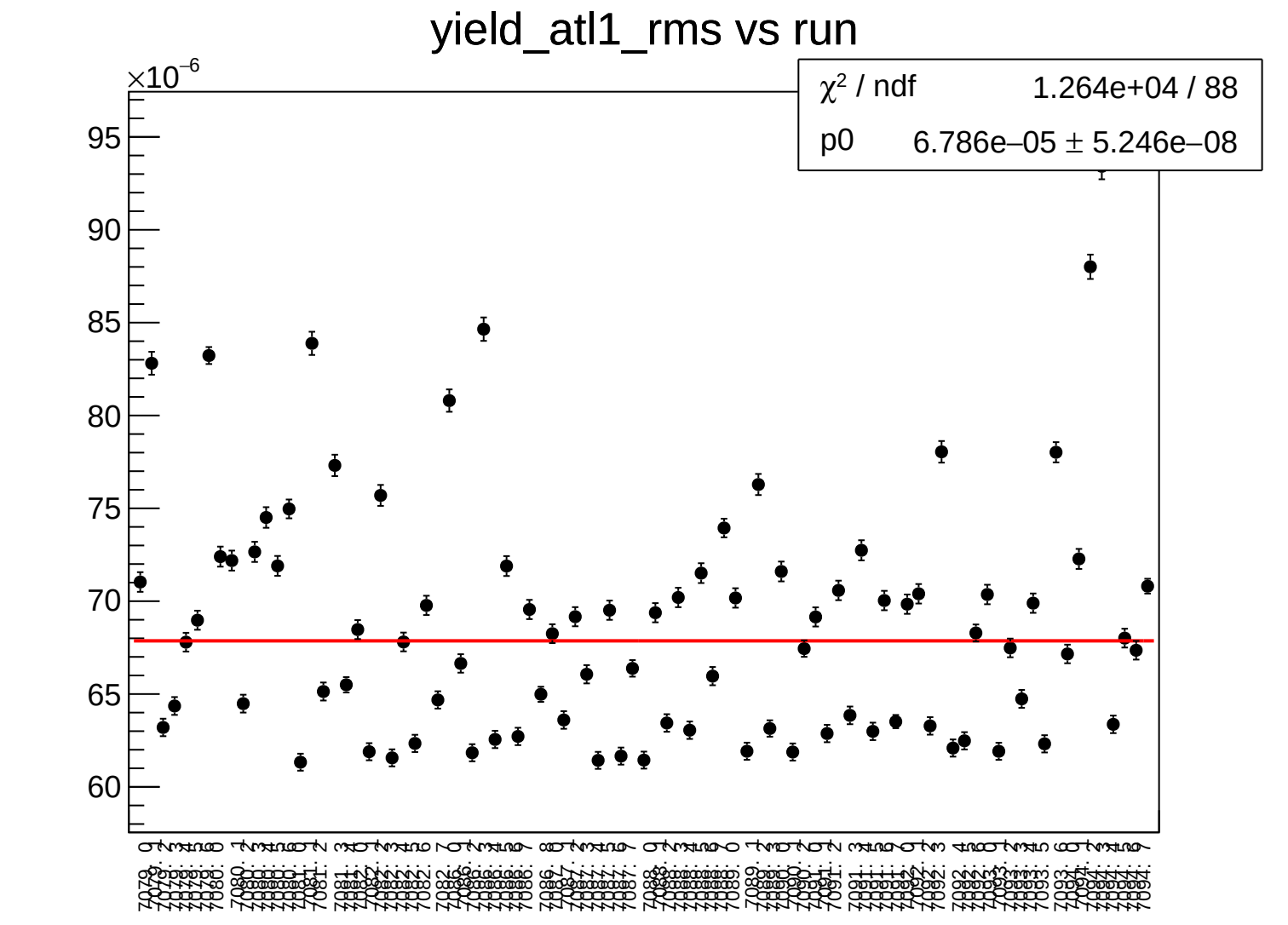

pull
Entries 89
Mean −34.82
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

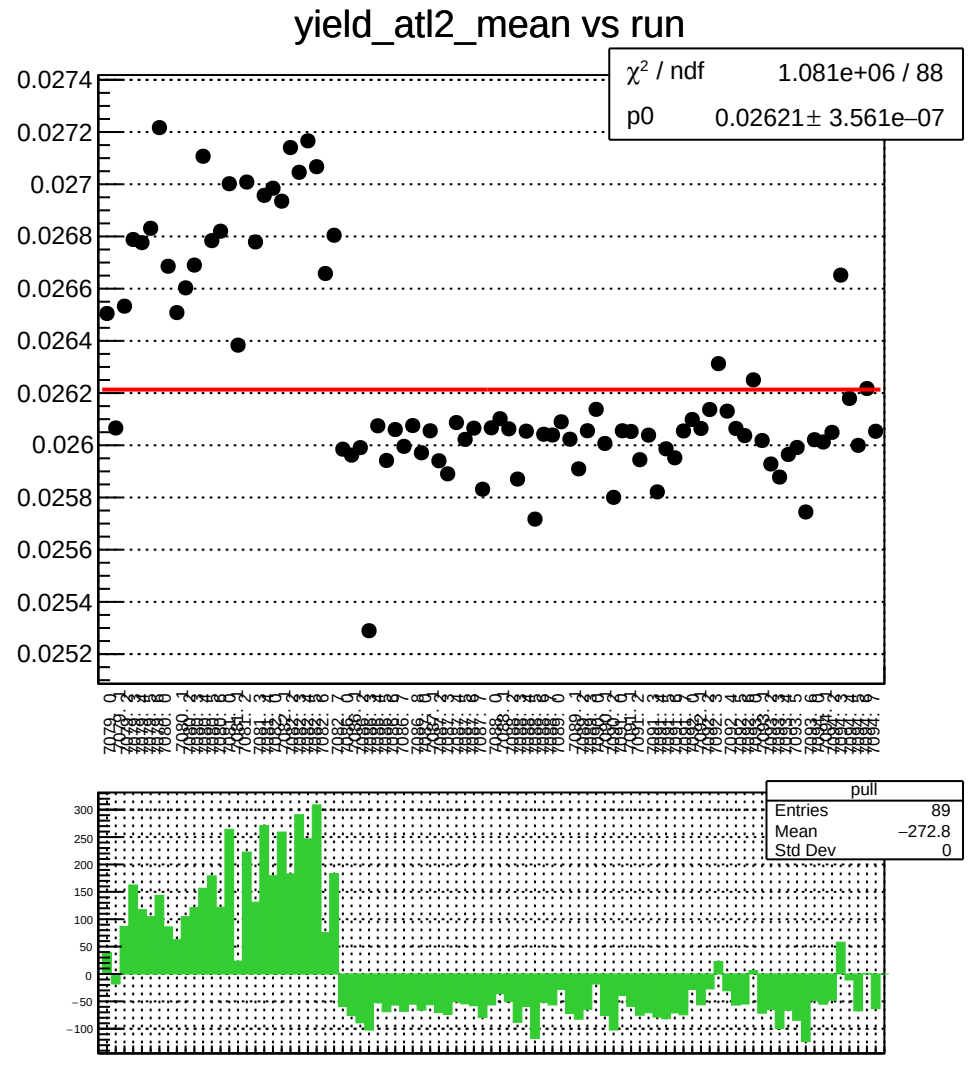

pull1D
Entries 89
Mean −2.398
Std Dev 3.183
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

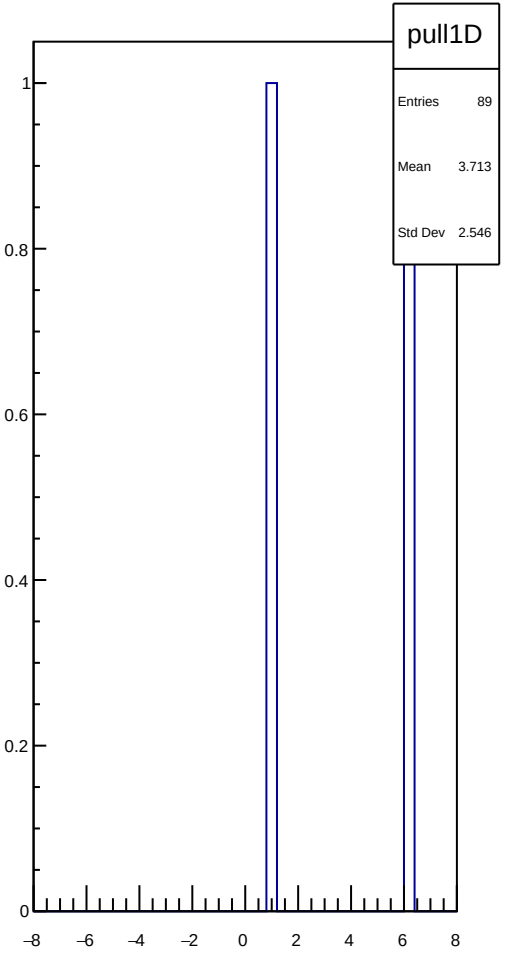

yield_dsr_rms vs run
χ² / ndf 5.862e+04 / 88
p0 0.05388 ± 4.223e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

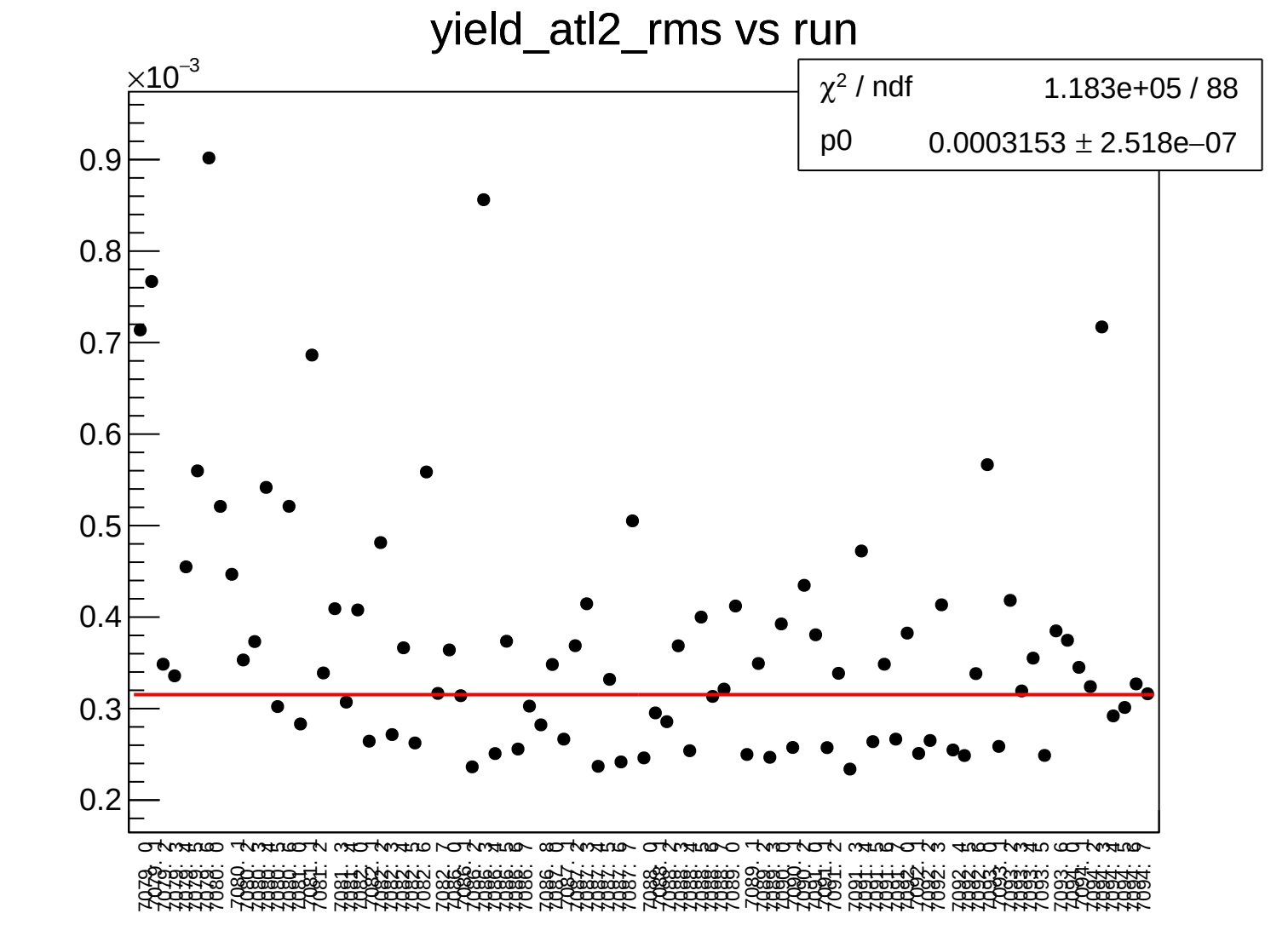

yield_atl1_mean vs run
χ² / ndf 3.384e+05 / 88
p0 0.02475 ± 7.419e−08
0.0249
0.02485
0.0248
0.02475
0.0247
0.02465
pull
Entries 89
Mean 1440
Std Dev 0
150
100
50
0
−50
−100
−150

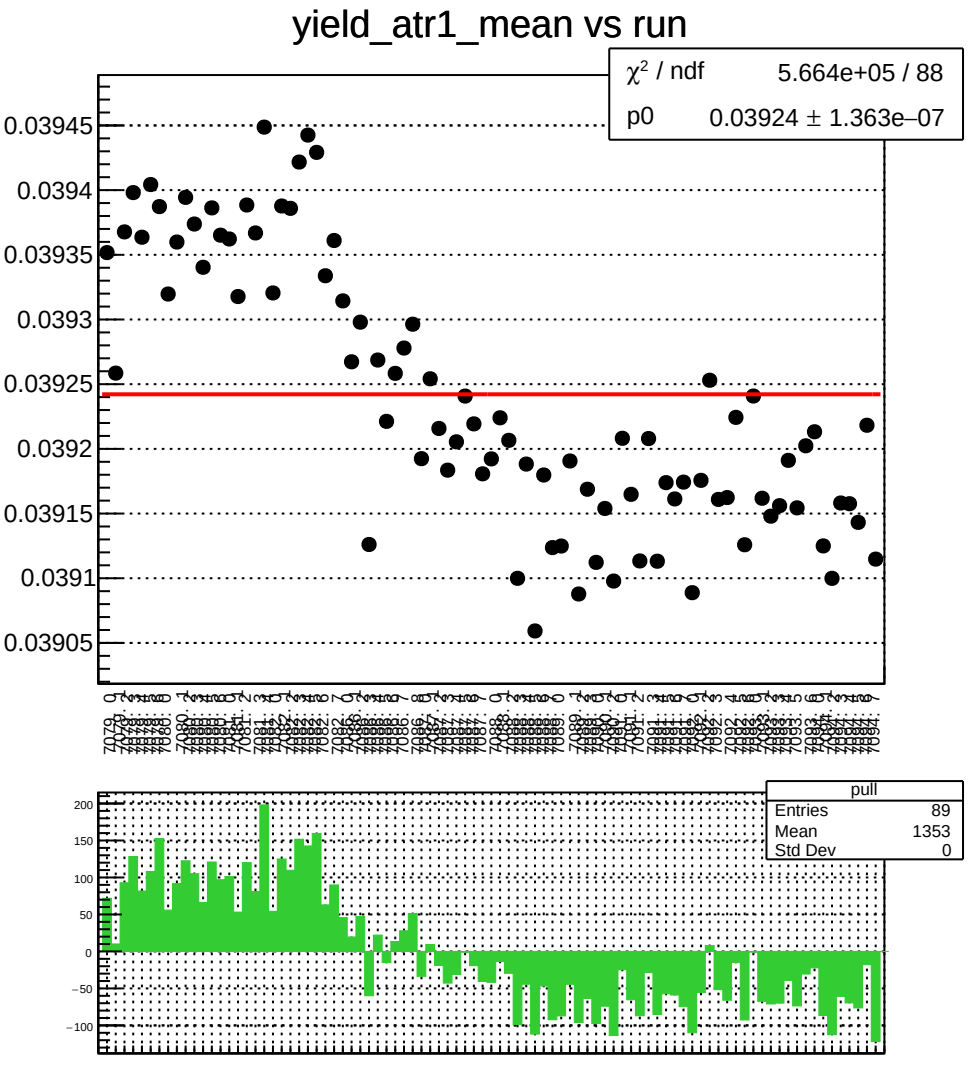

pull1D
Entries 89
Mean −0.57
Std Dev 3.783
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

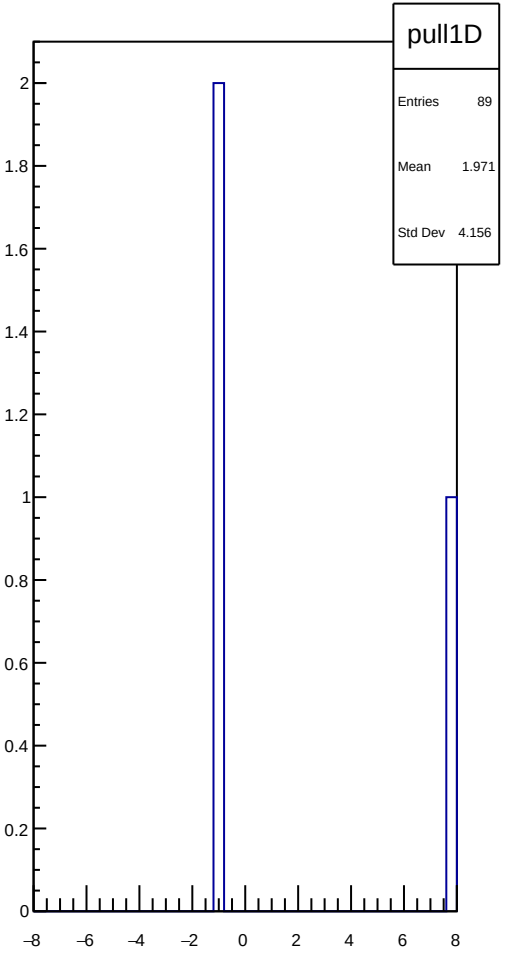

yield_atl1_rms vs run
×10⁻⁶
χ² / ndf 1.264e+04 / 88
p0 6.786e−05 ± 5.246e−08
95
90
85
80
75
70
65
60

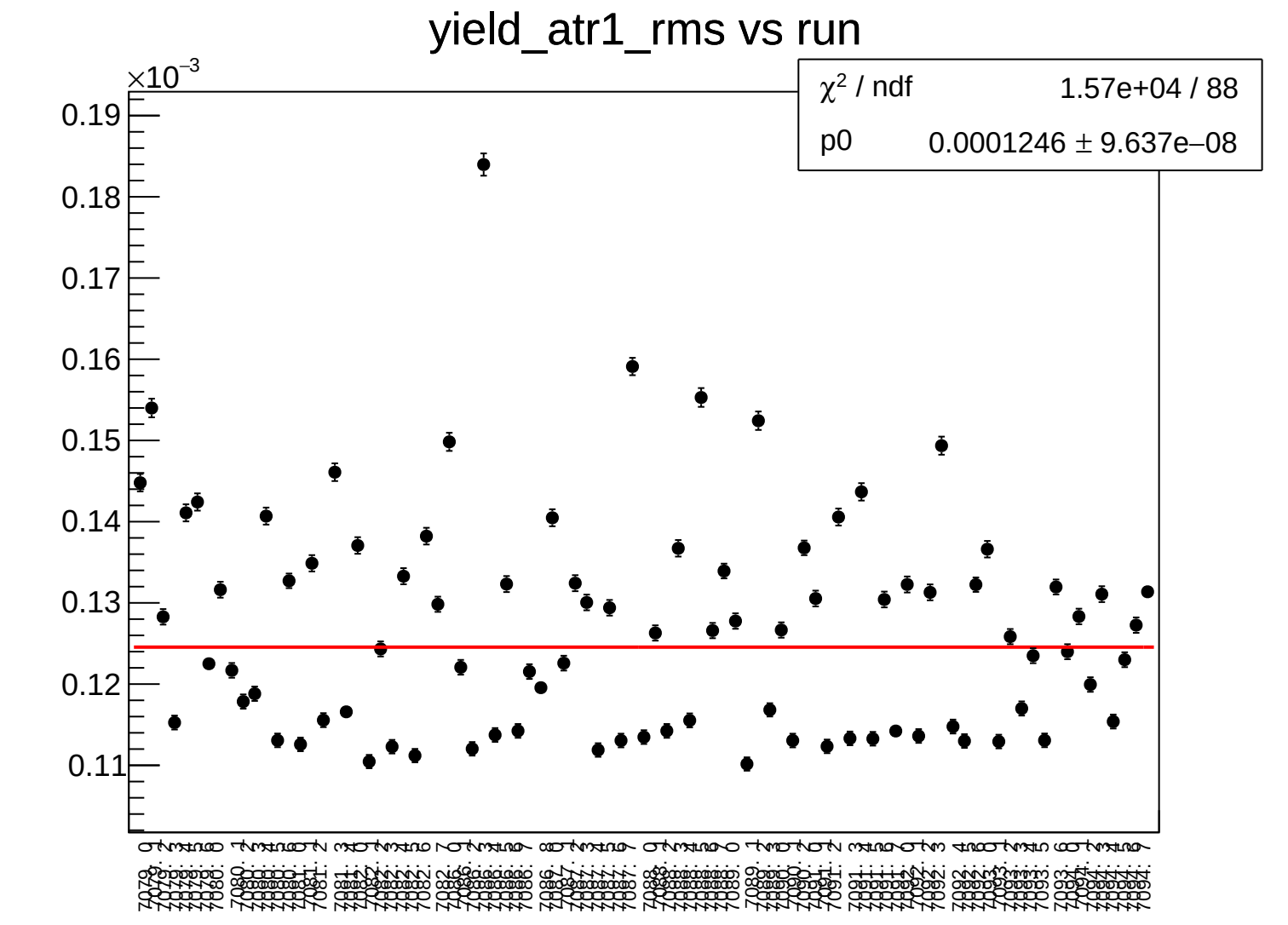

yield_atl2_mean vs run
χ² / ndf 1.081e+06 / 88
p0 0.02621± 3.561e–07
0.0274
0.0272
0.027
0.0268
0.0266
0.0264
0.0262
0.026
0.0258
0.0256
0.0254
0.0252
pull
Entries 89
Mean –272.8
Std Dev 0
300
250
200
150
100
50
0
–50
–100

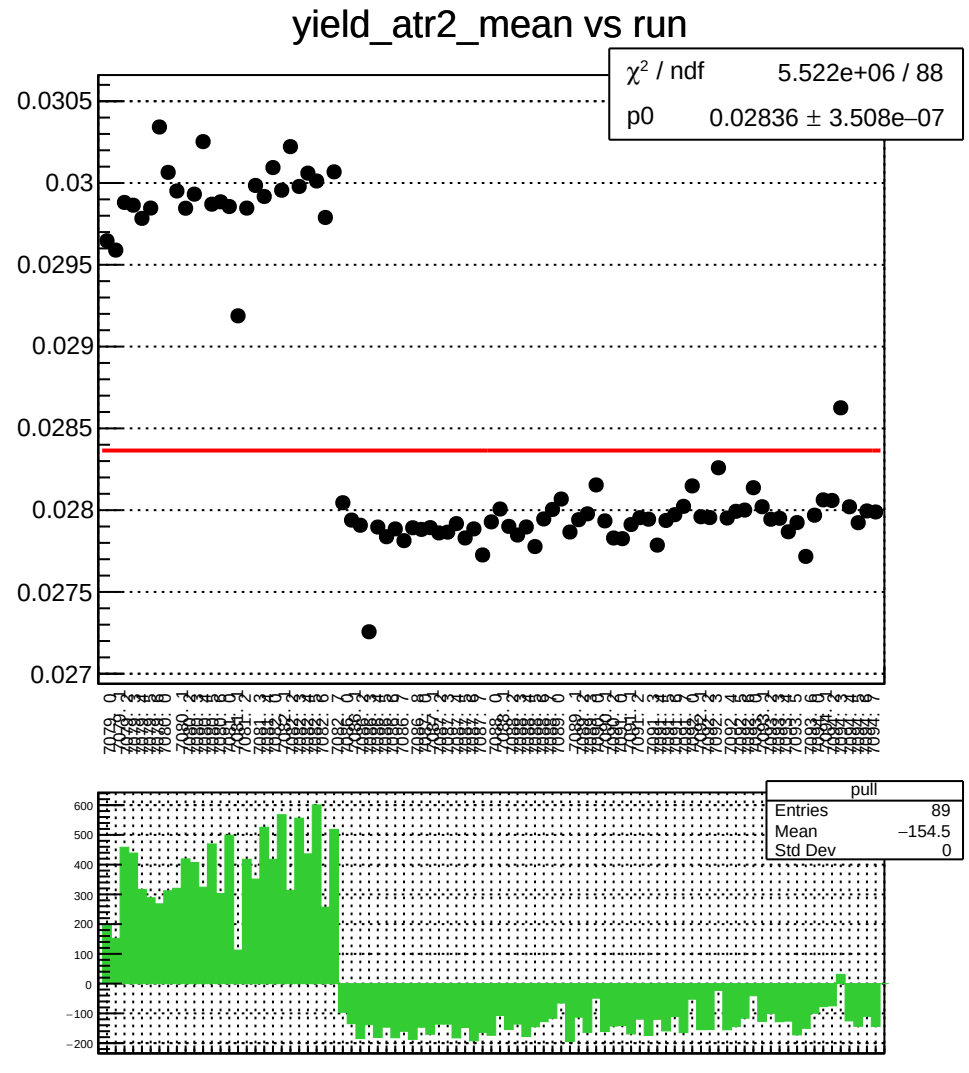

pull1D
Entries 89
Mean 3.713
Std Dev 2.546
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

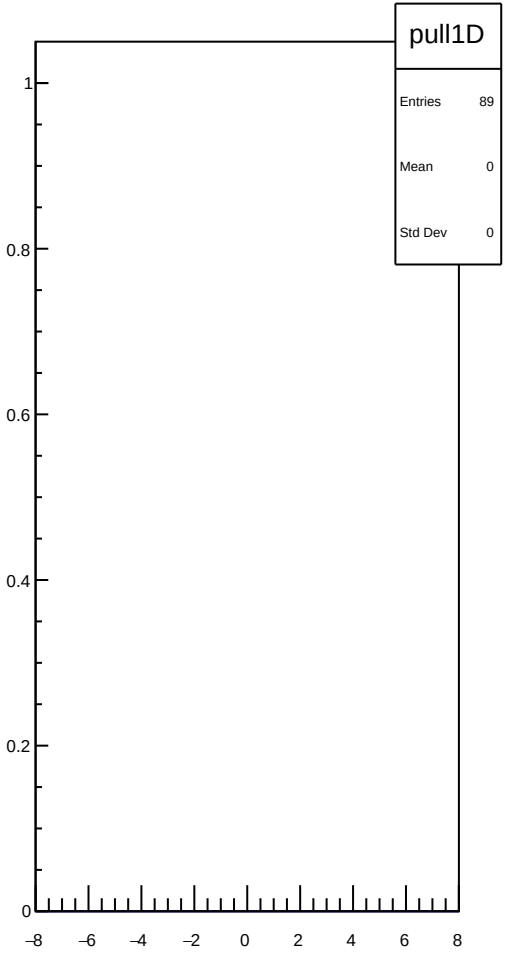

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.183e+05 / 88
p0 0.0003153 ± 2.518e−07
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

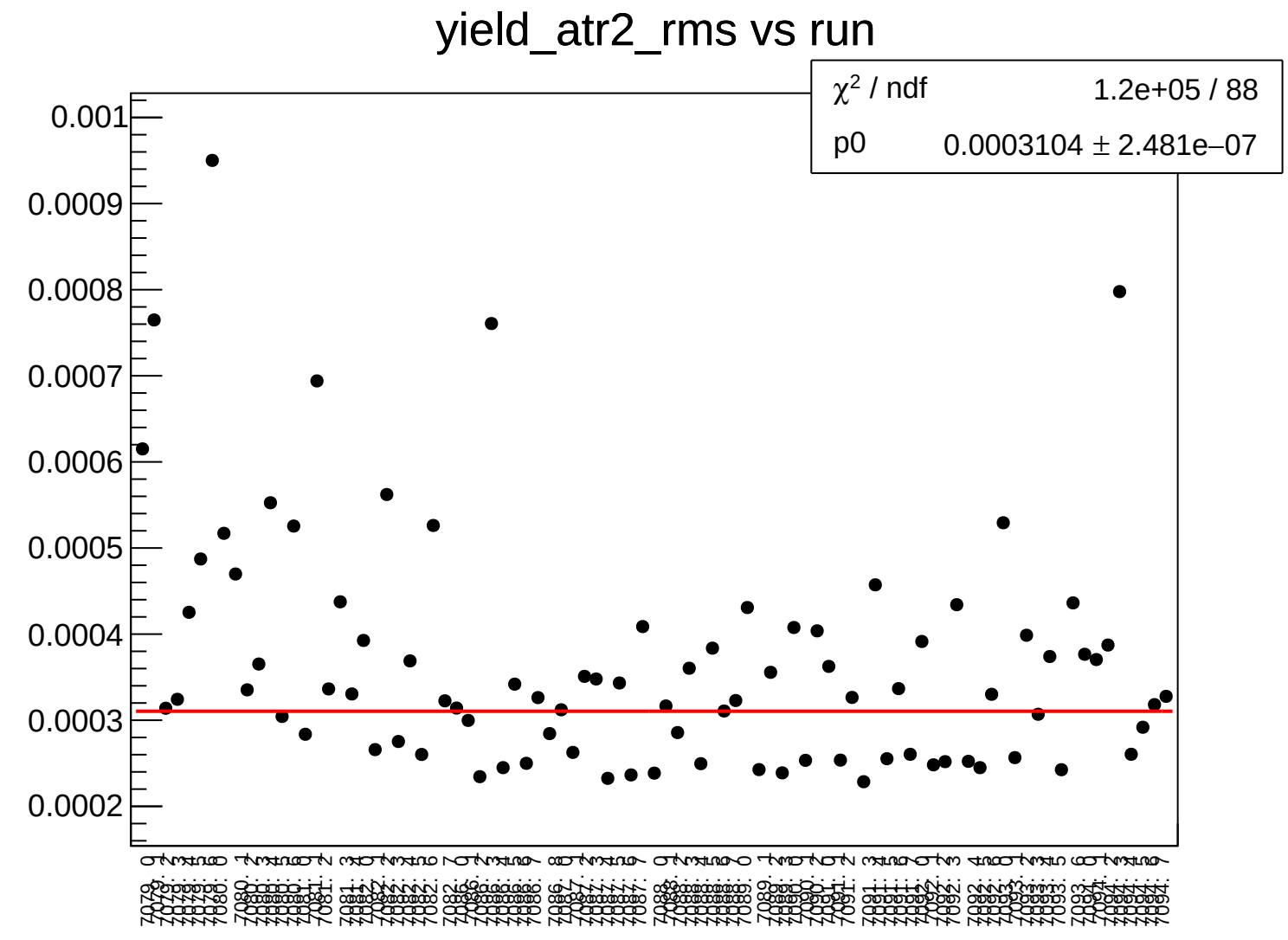

yield_atr1_mean vs run
χ² / ndf 5.664e+05 / 88
p0 0.03924 ± 1.363e−07
0.03945
0.0394
0.03935
0.0393
0.03925
0.0392
0.03915
0.0391
0.03905
pull
Entries 89
Mean 1353
Std Dev 0
200
150
100
50
0
−50
−100

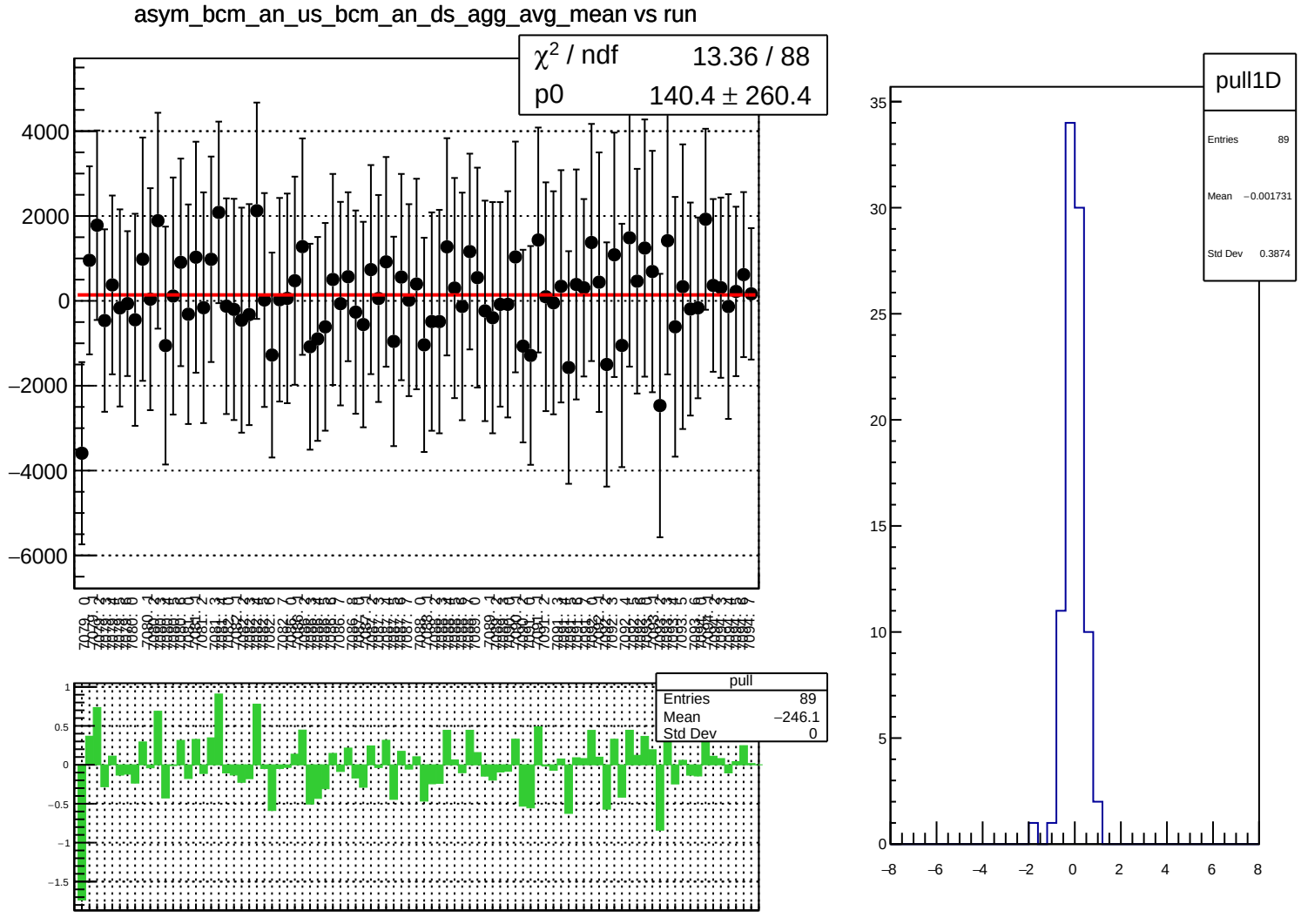

pull1D
Entries 89
Mean 1.971
Std Dev 4.156
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

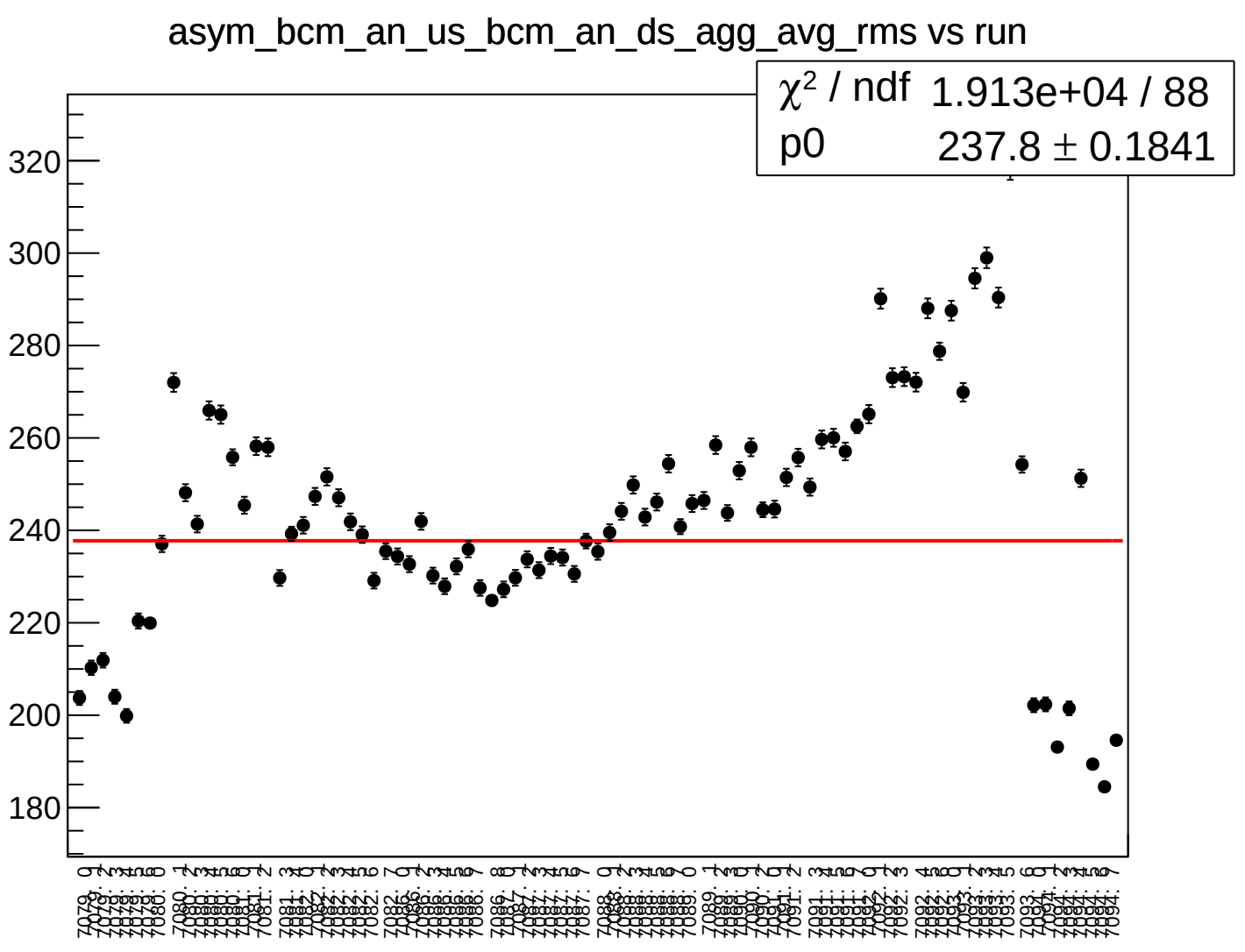

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.57e+04 / 88
p0 0.0001246 ± 9.637e−08
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11

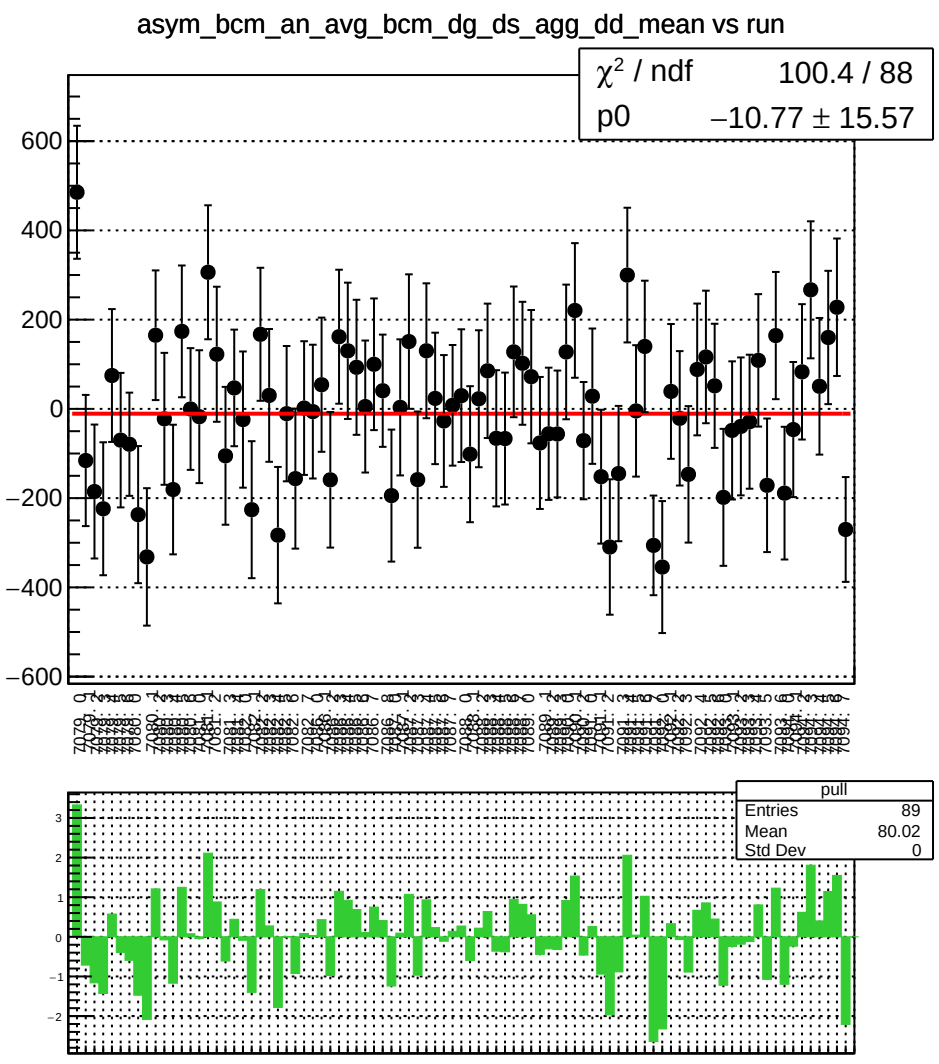

yield_atr2_mean vs run
χ² / ndf 5.522e+06 / 88
p0 0.02836 ± 3.508e–07
0.0305
0.03
0.0295
0.029
0.0285
0.028
0.0275
0.027
pull
Entries 89
Mean –154.5
Std Dev 0
600
500
400
300
200
100
0
–100
–200

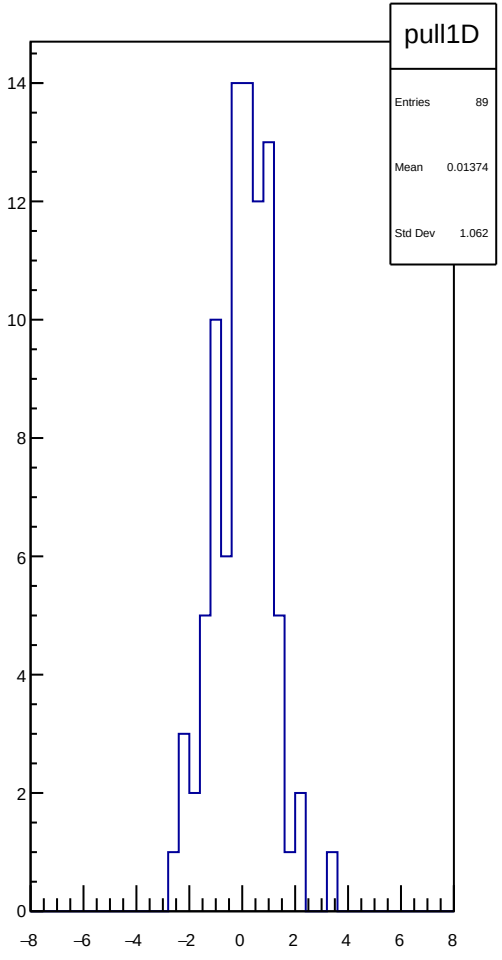

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

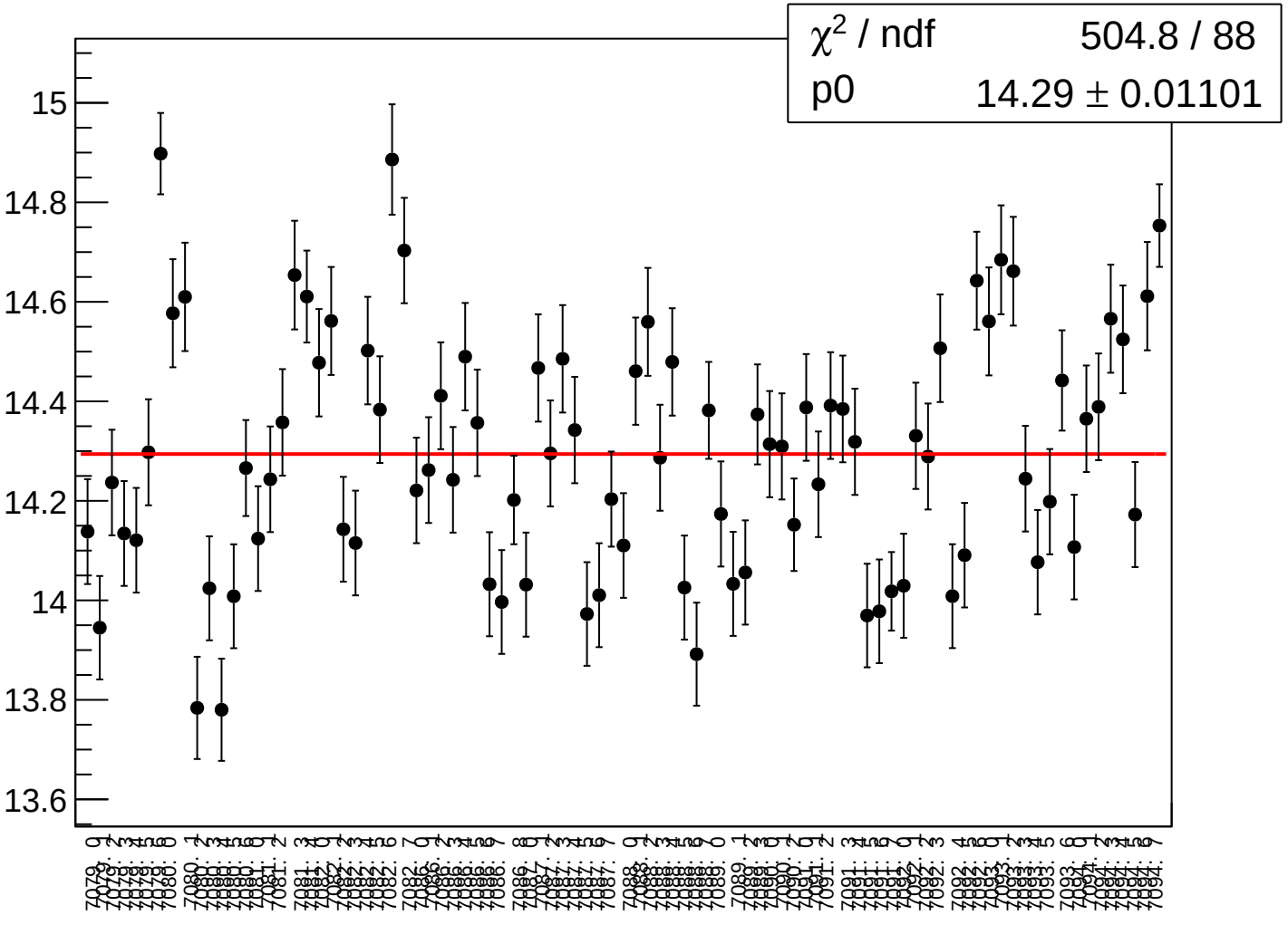

yield_atr2_rms vs run
χ² / ndf 1.2e+05 / 88
p0 0.0003104 ± 2.481e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002

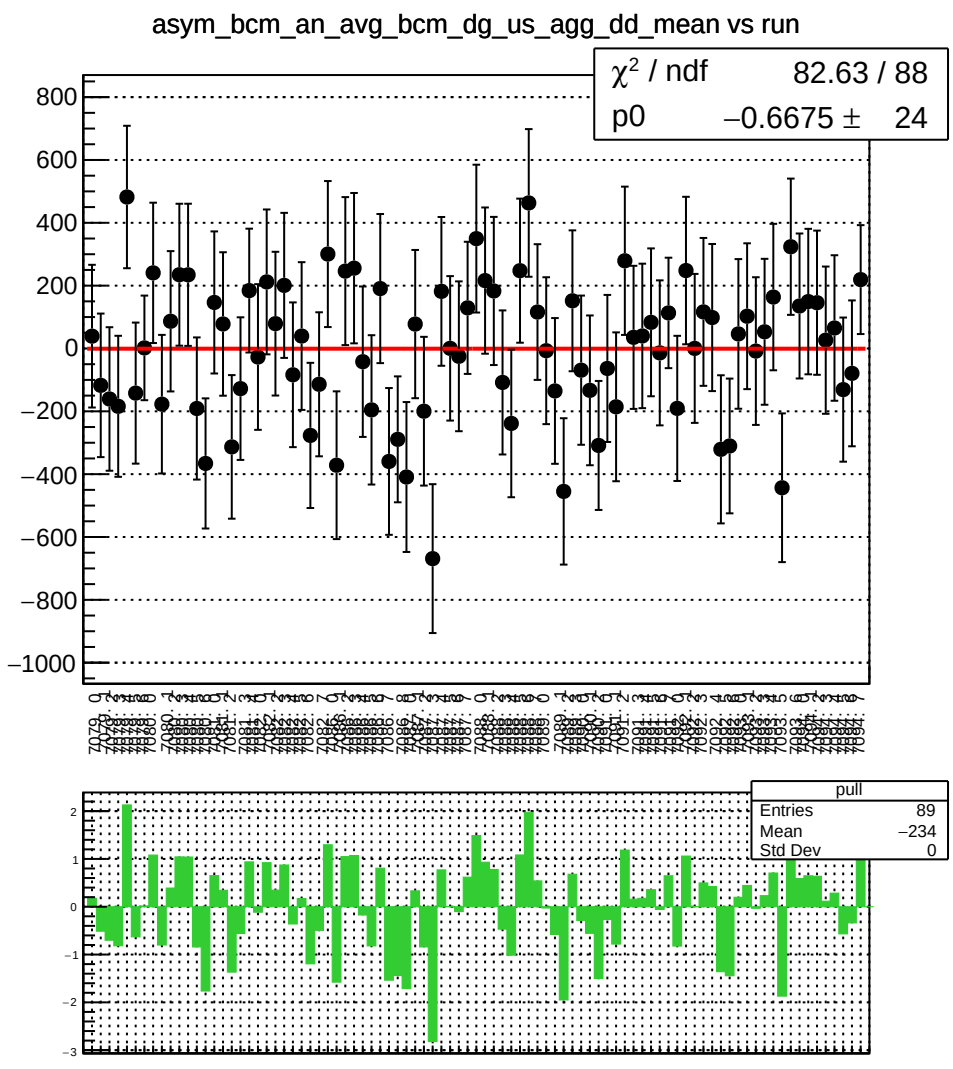

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.36 / 88
p0 140.4 ± 260.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −246.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.001731
Std Dev 0.3874
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

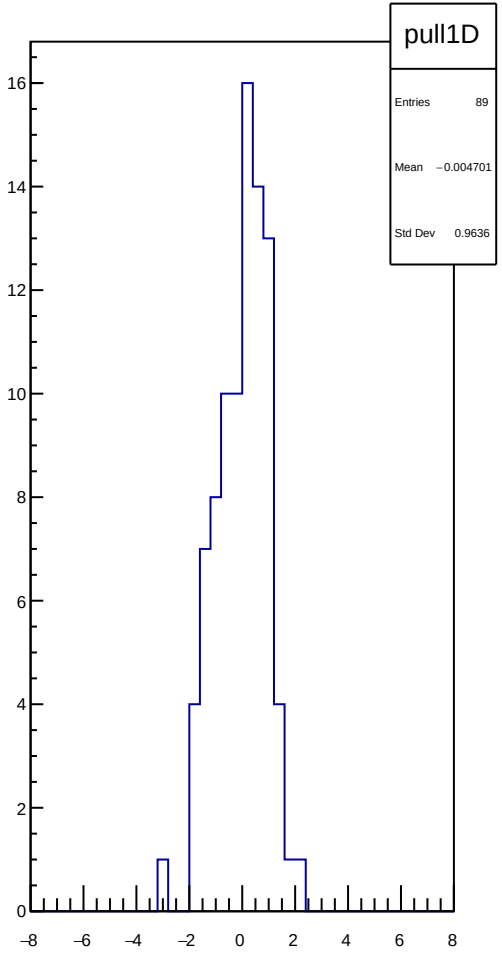

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.913e+04 / 88
p0 237.8 ± 0.1841
320
300
280
260
240
220
200
180

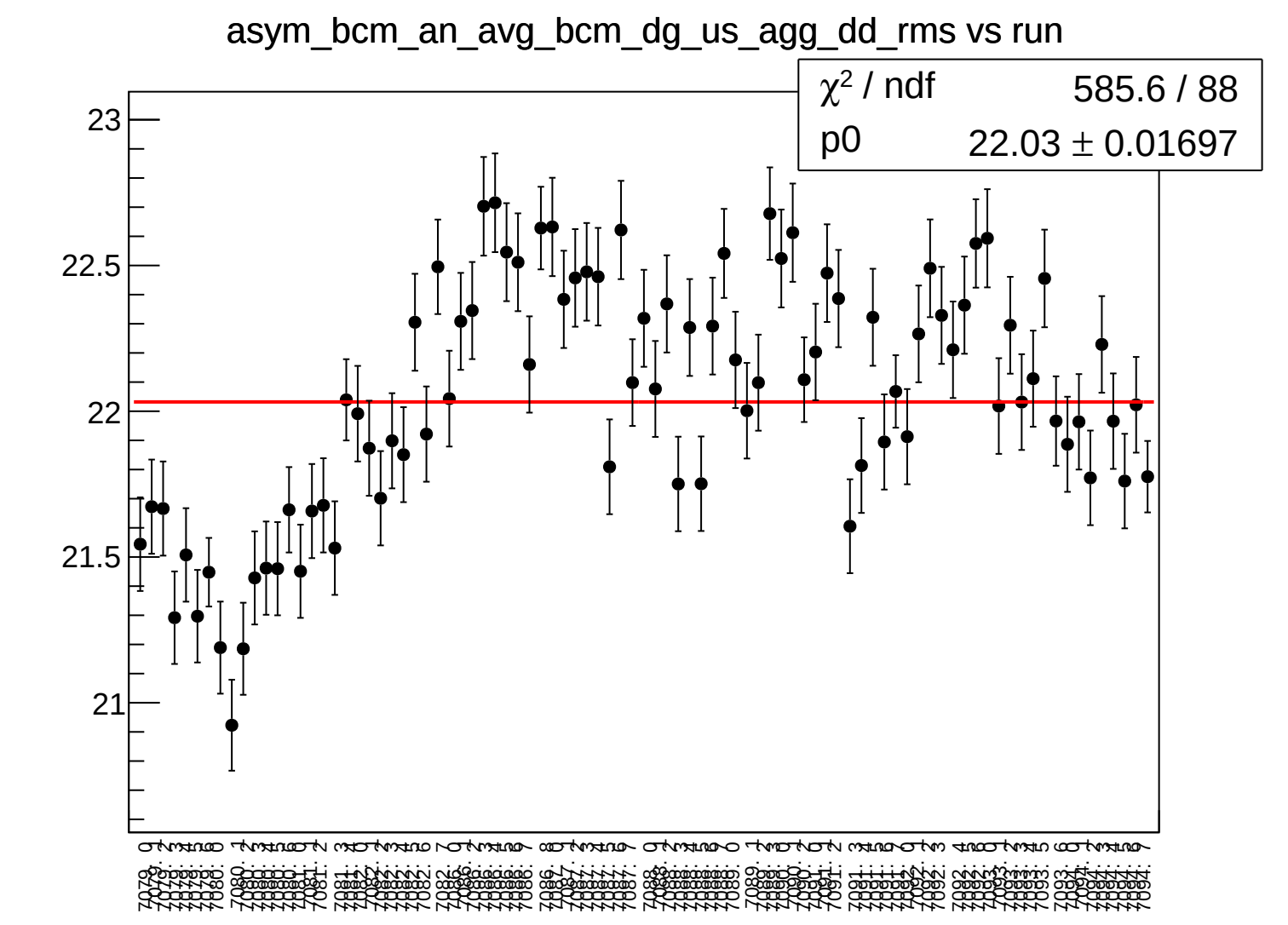

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 100.4 / 88
p0 −10.77 ± 15.57
pull
Entries 89
Mean 80.02
Std Dev 0

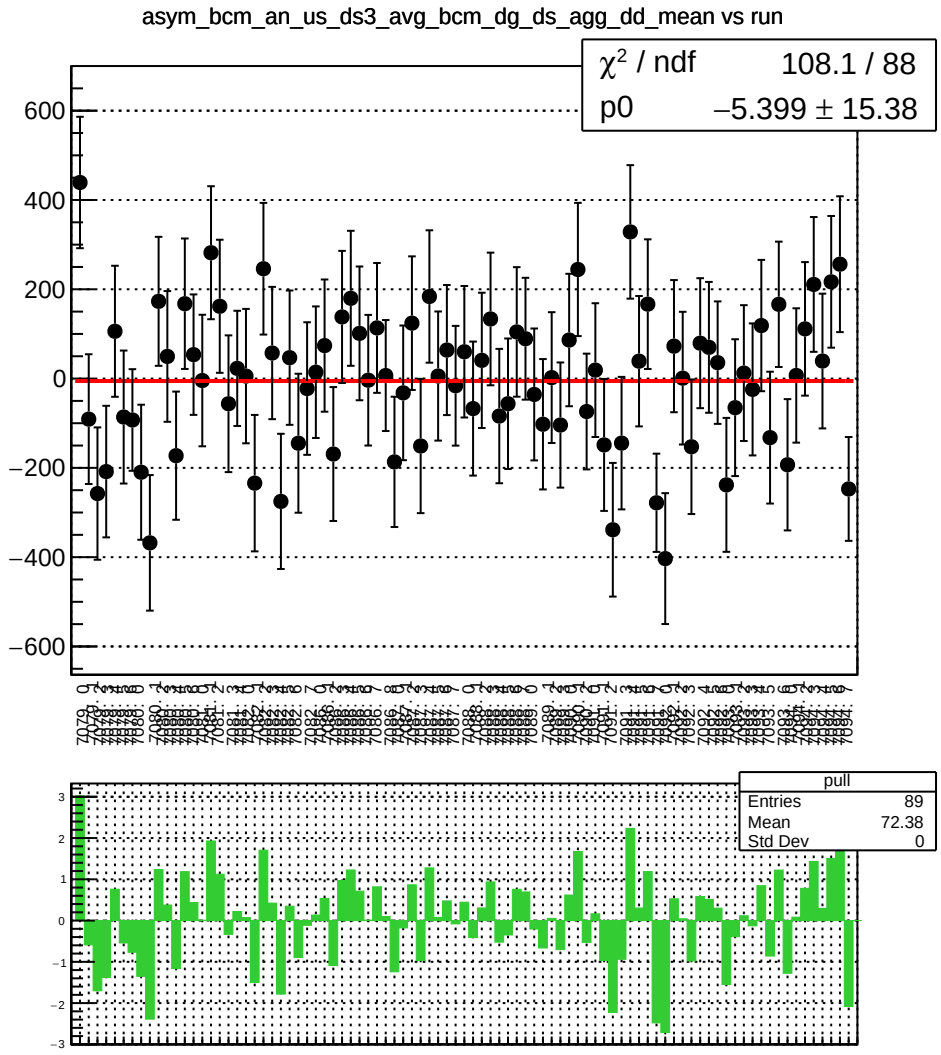

pull1D
Entries 89
Mean 0.01374
Std Dev 1.062

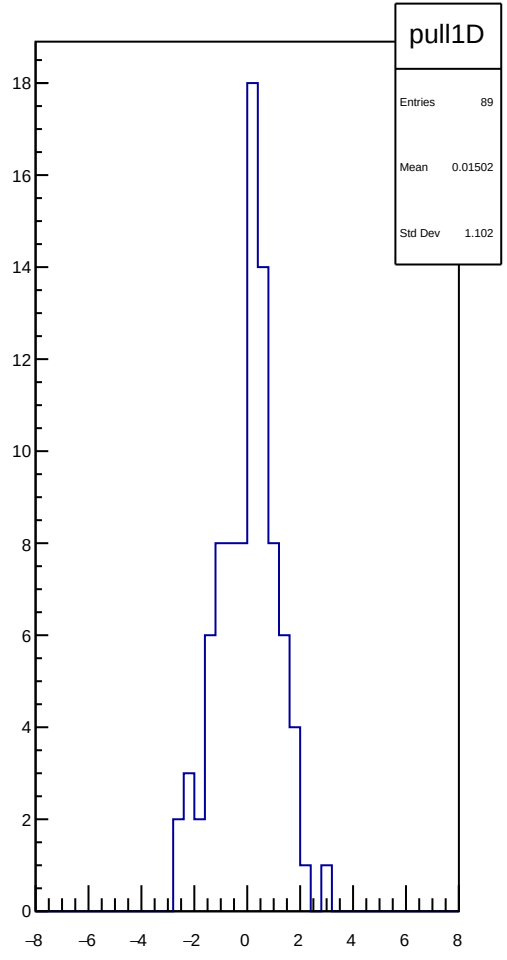

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 504.8 / 88
p0 14.29 ± 0.01101
15
14.8
14.6
14.4
14.2
14
13.8
13.6

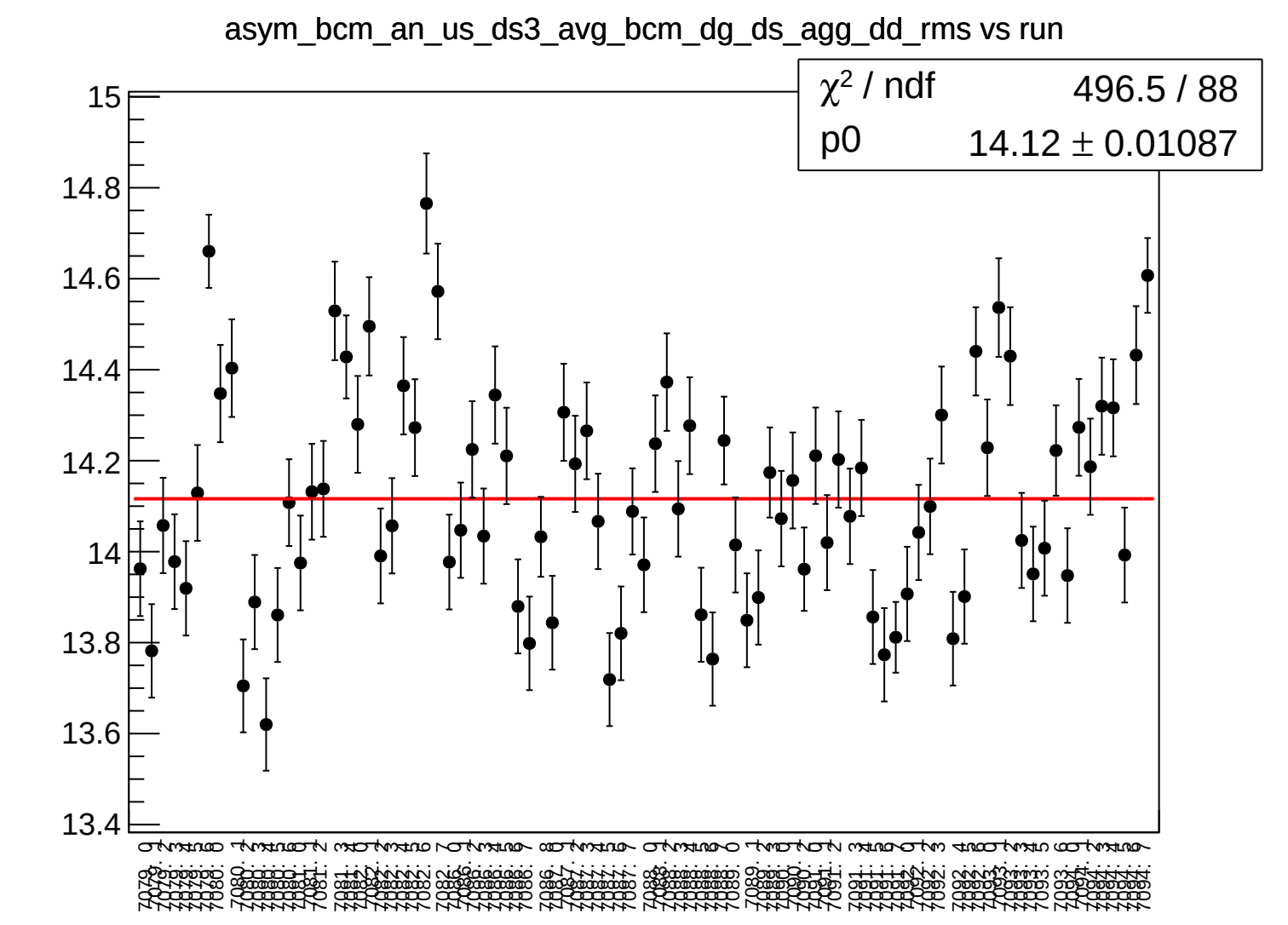

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 82.63 / 88
p0 −0.6675 ± 24
pull
Entries 89
Mean −234
Std Dev 0

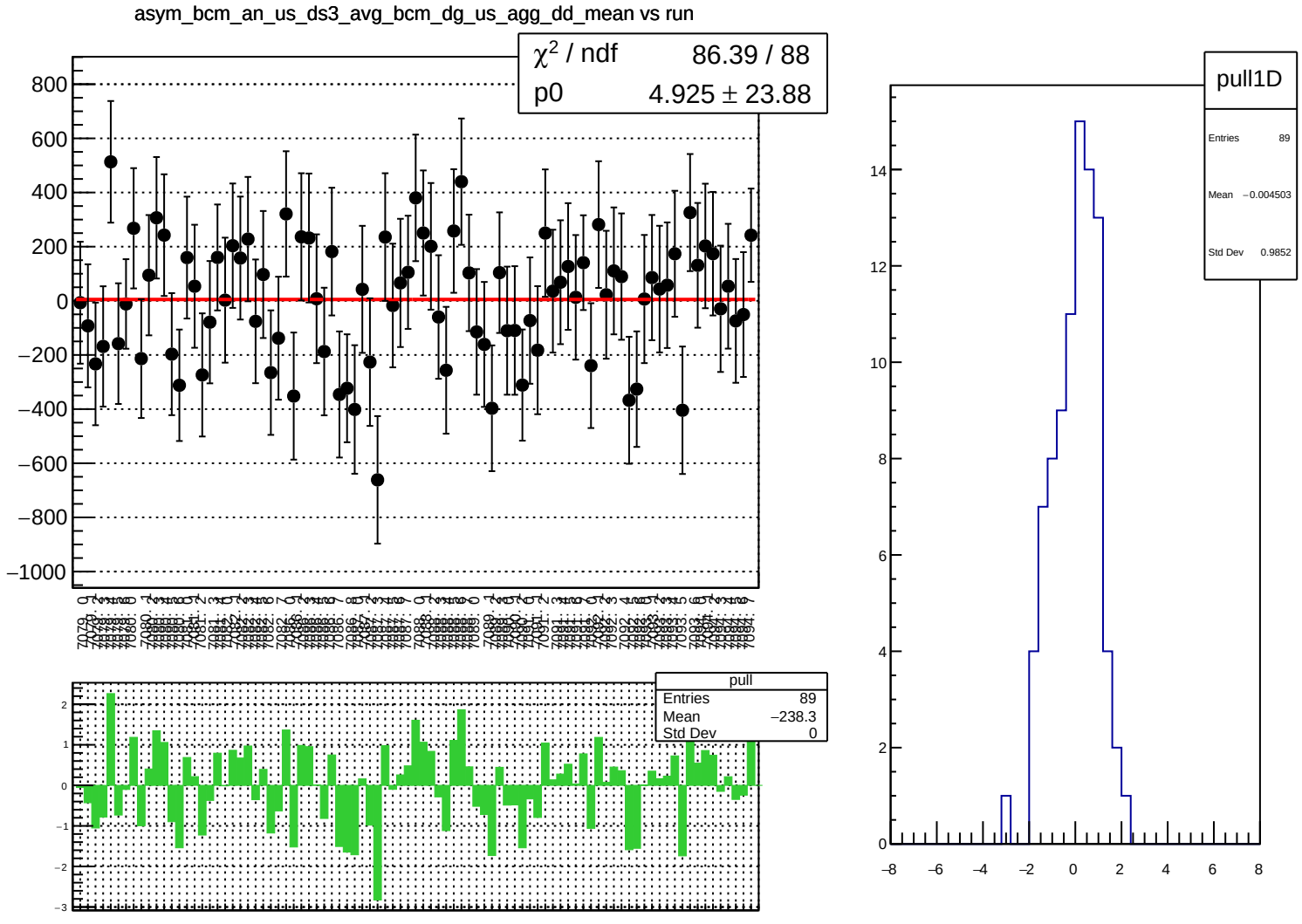

pull1D
Entries 89
Mean −0.004701
Std Dev 0.9636

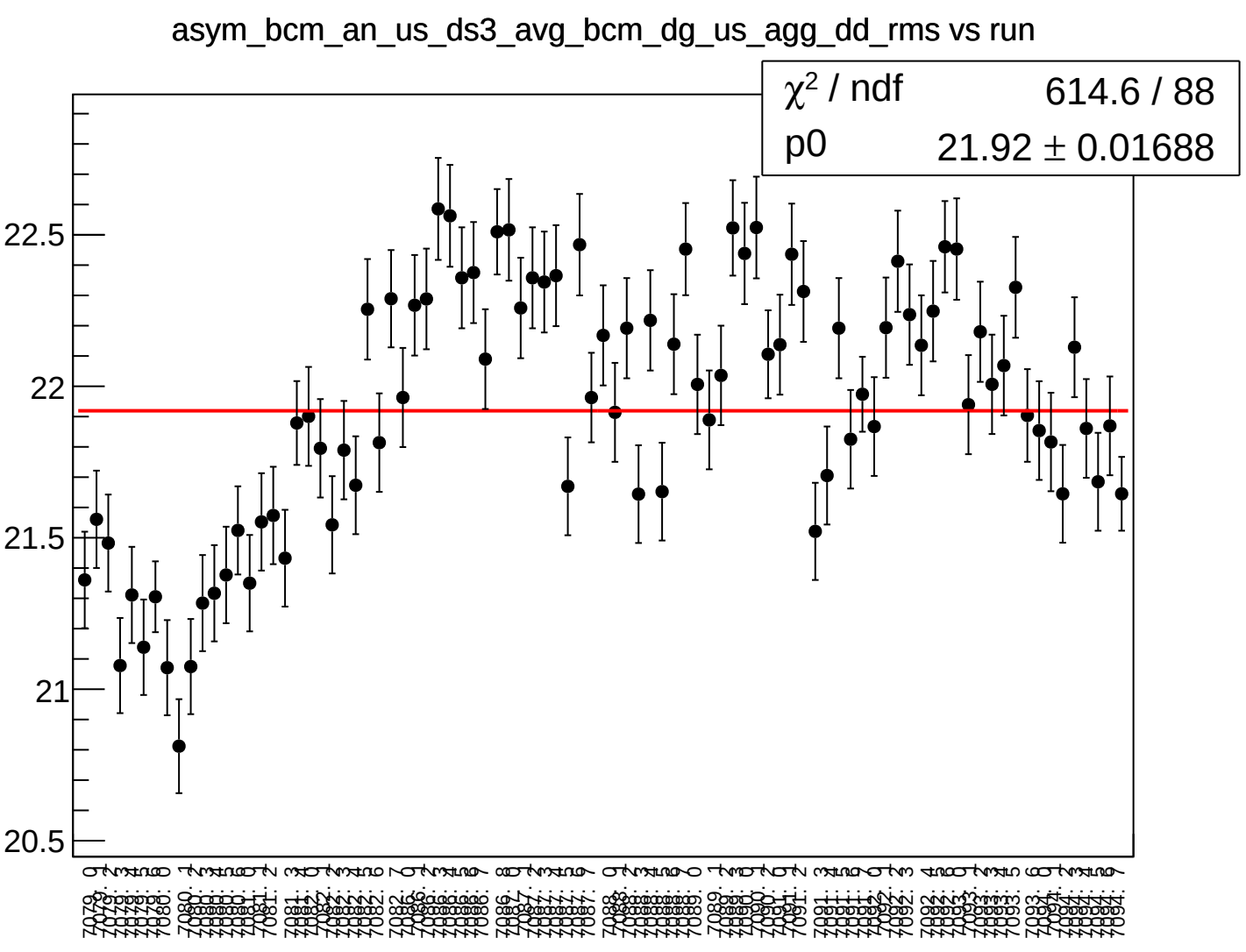

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 585.6 / 88
p0 22.03 ± 0.01697
23
22.5
22
21.5
21

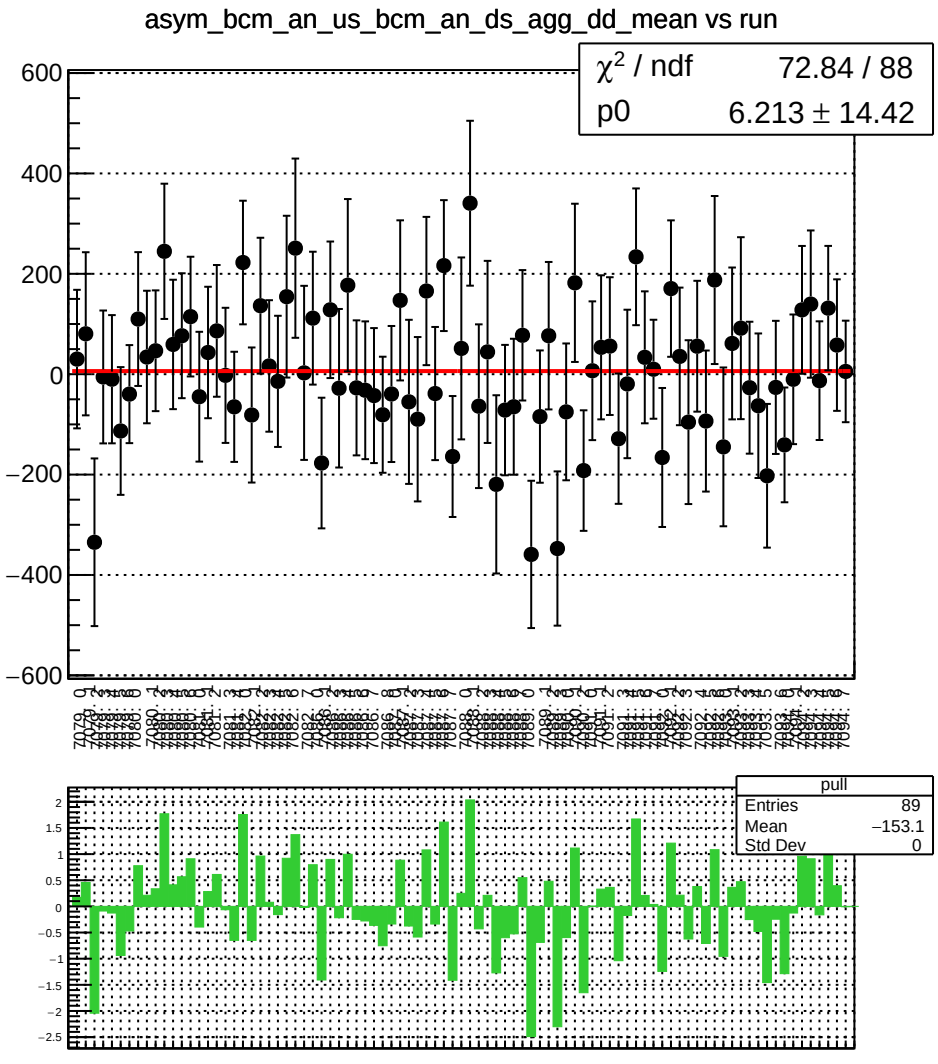

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 108.1 / 88
p0 −5.399 ± 15.38
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean 72.38
Std Dev 0
3
2
1
0
−1
−2
−3

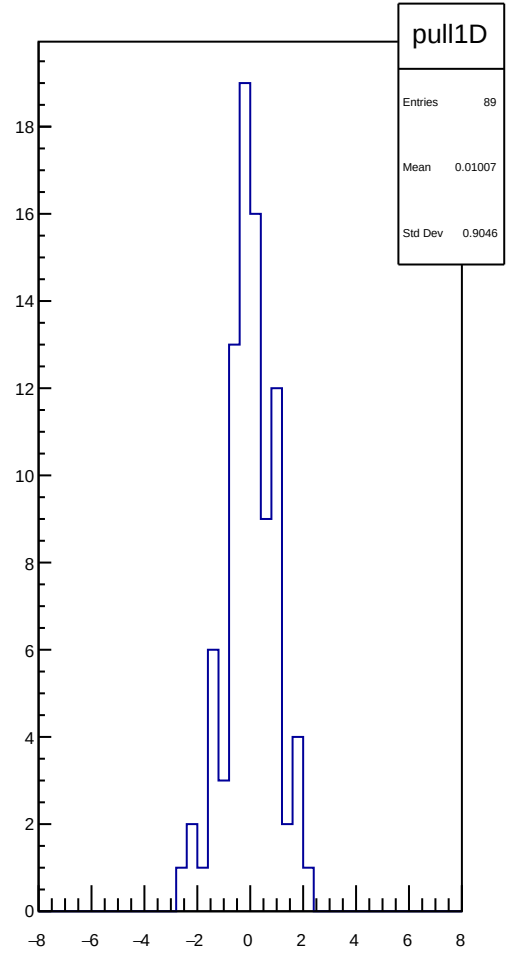

pull1D
Entries 89
Mean 0.01502
Std Dev 1.102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

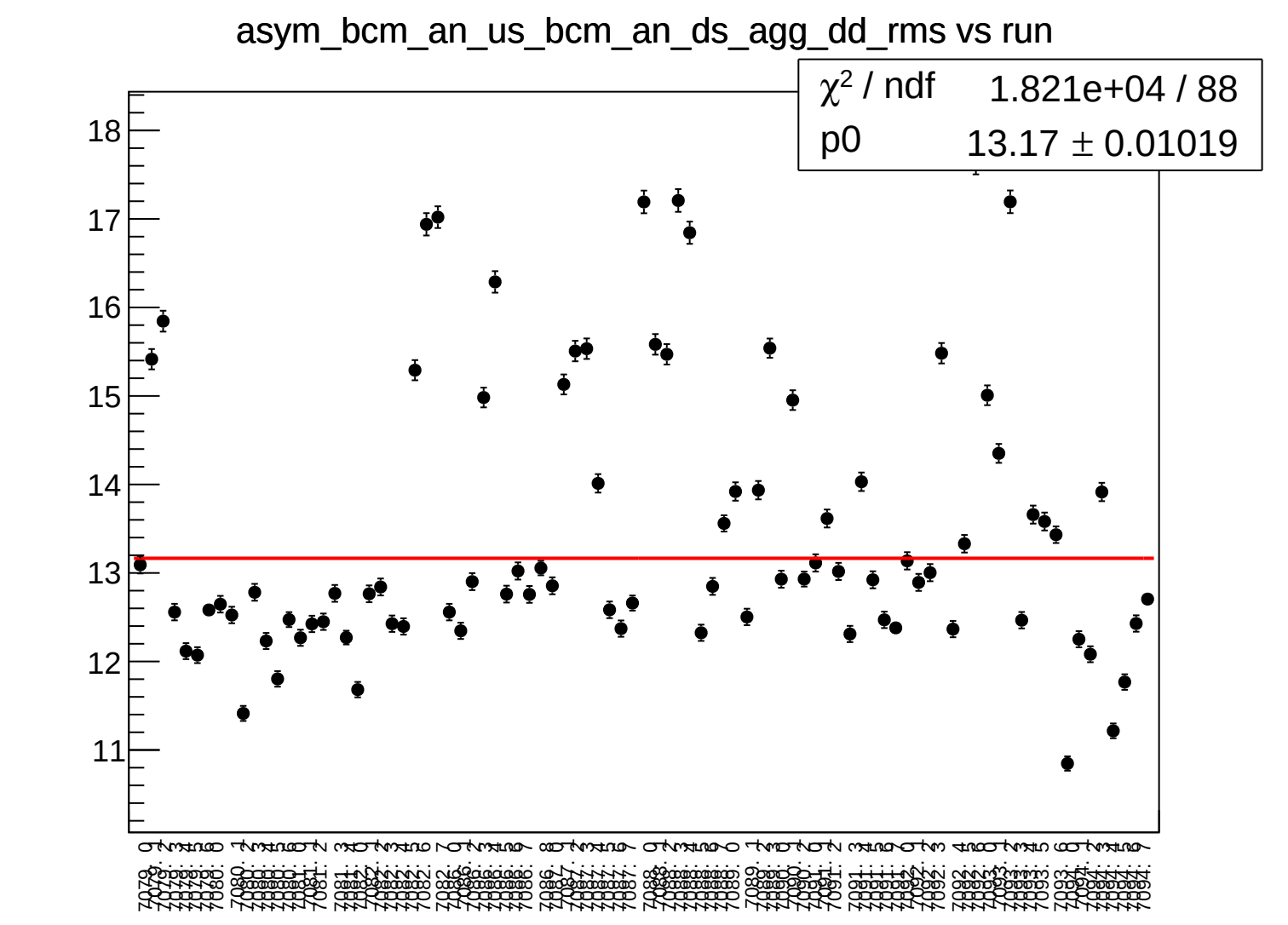

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 496.5 / 88
p0 14.12 ± 0.01087
15
14.8
14.6
14.4
14.2
14
13.8
13.6
13.4

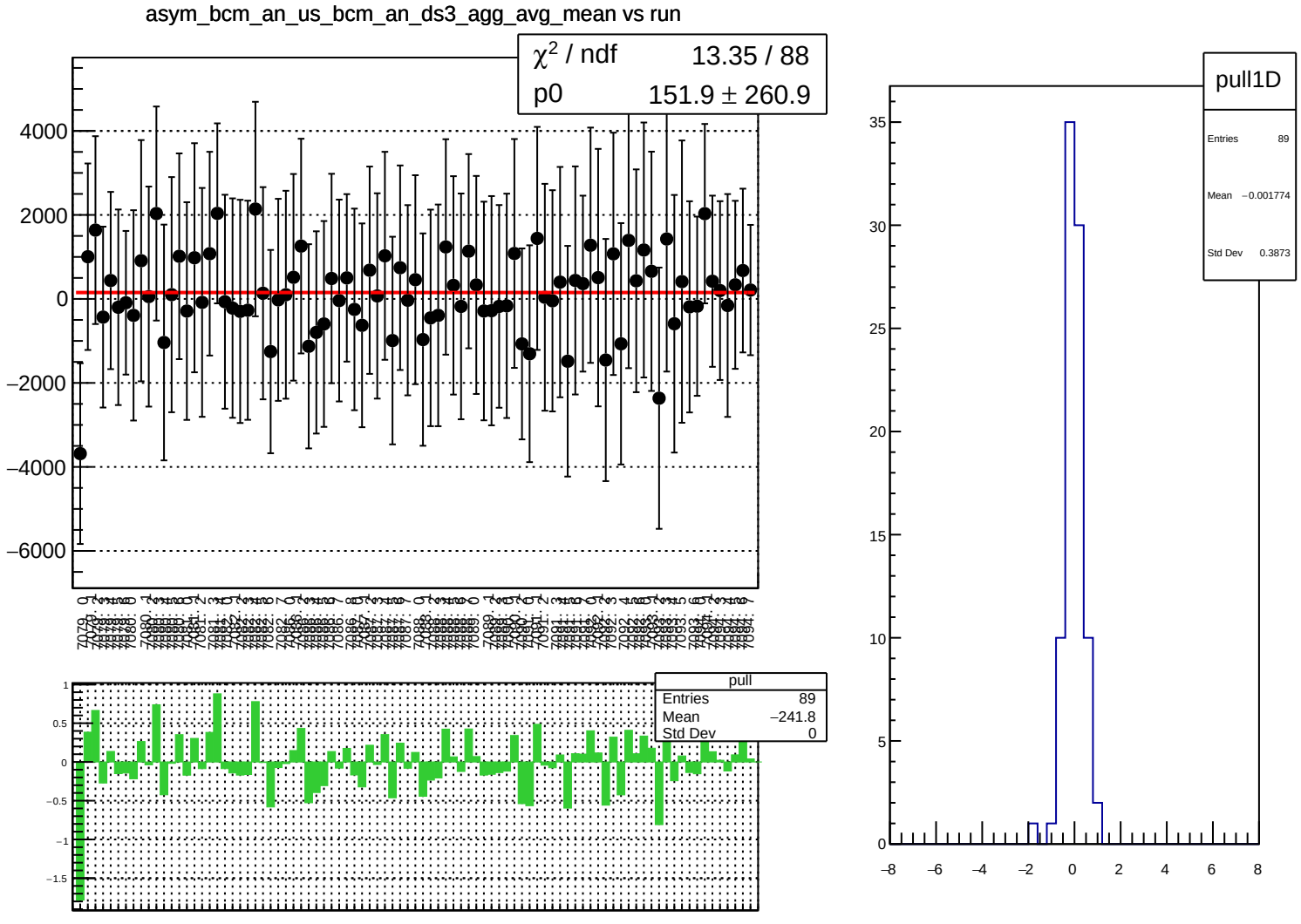

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 86.39 / 88
p0 4.925 ± 23.88
pull
Entries 89
Mean −238.3
Std Dev 0
pull1D
Entries 89
Mean −0.004503
Std Dev 0.9852

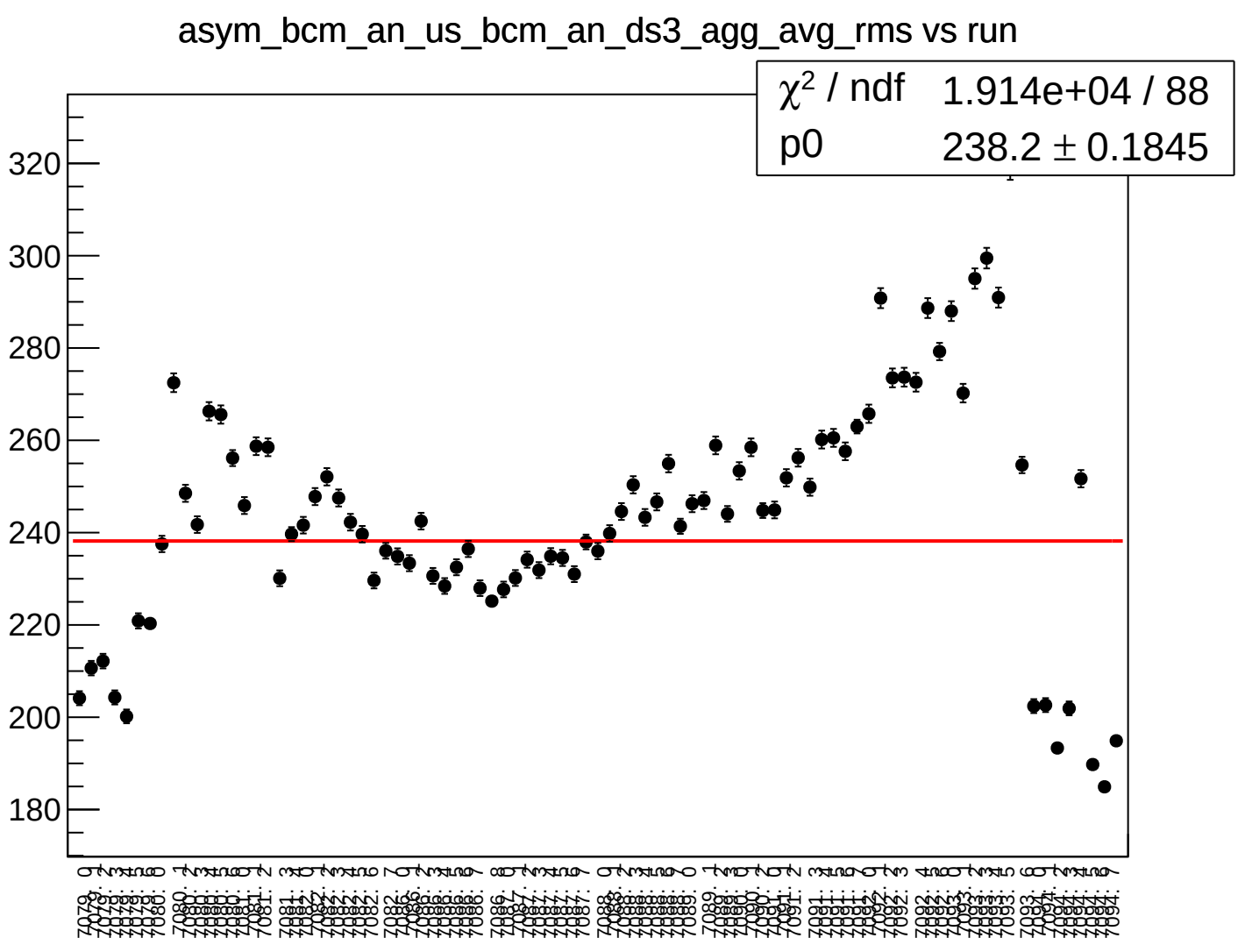

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 614.6 / 88
p0 21.92 ± 0.01688
22.5
22
21.5
21
20.5

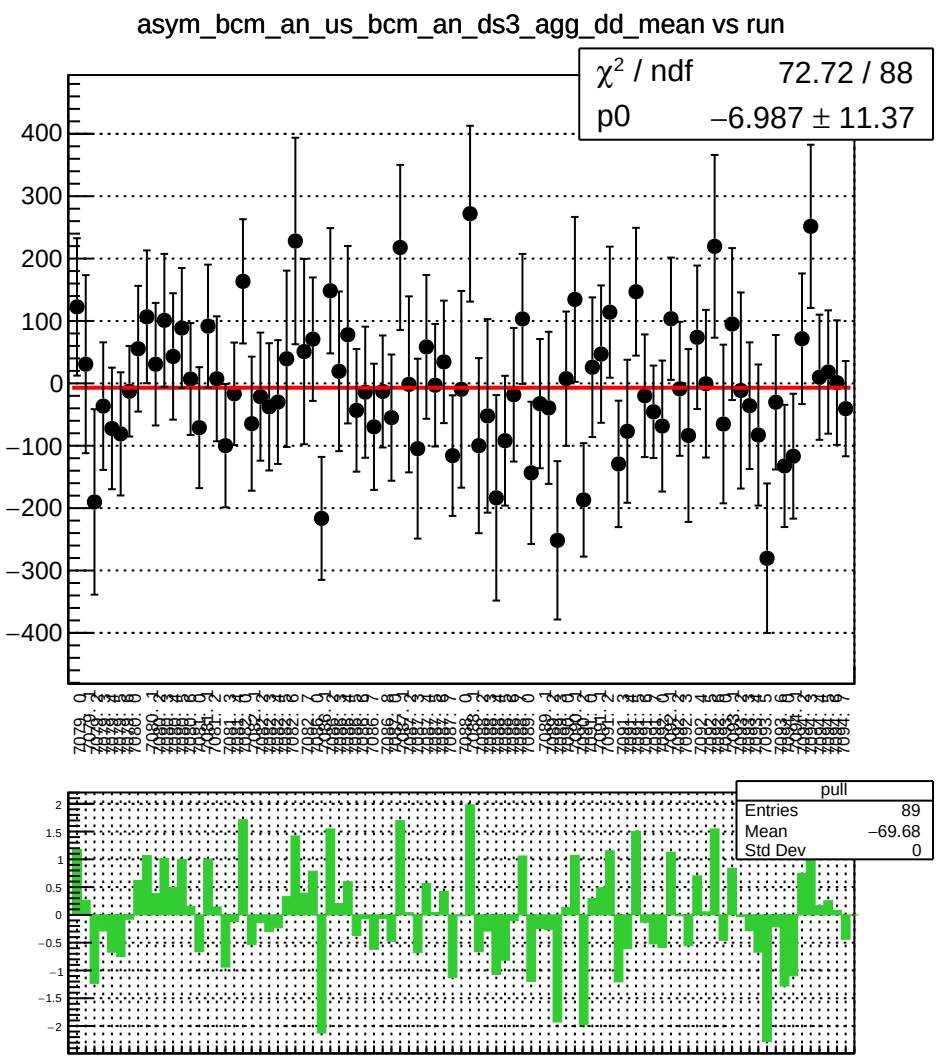

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 72.84 / 88
p0 6.213 ± 14.42
pull
Entries 89
Mean −153.1
Std Dev 0

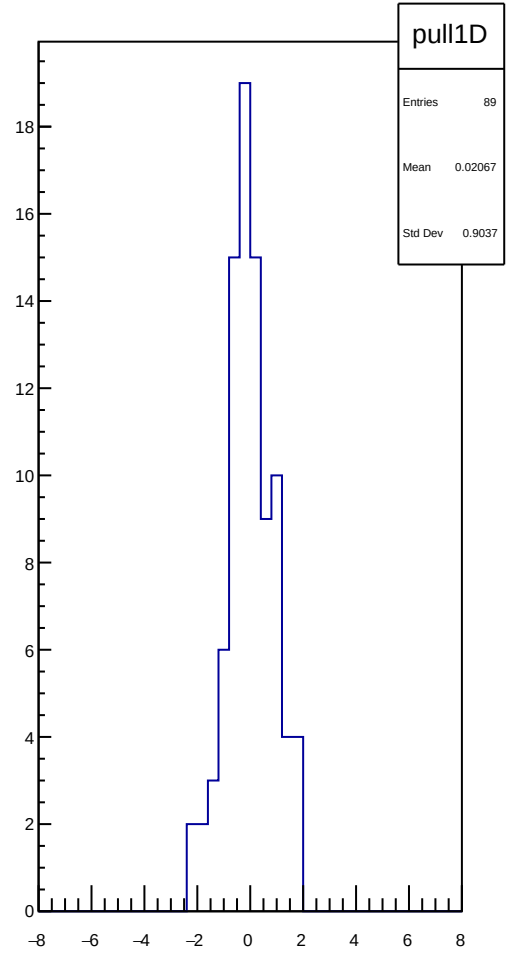

pull1D
Entries 89
Mean 0.01007
Std Dev 0.9046

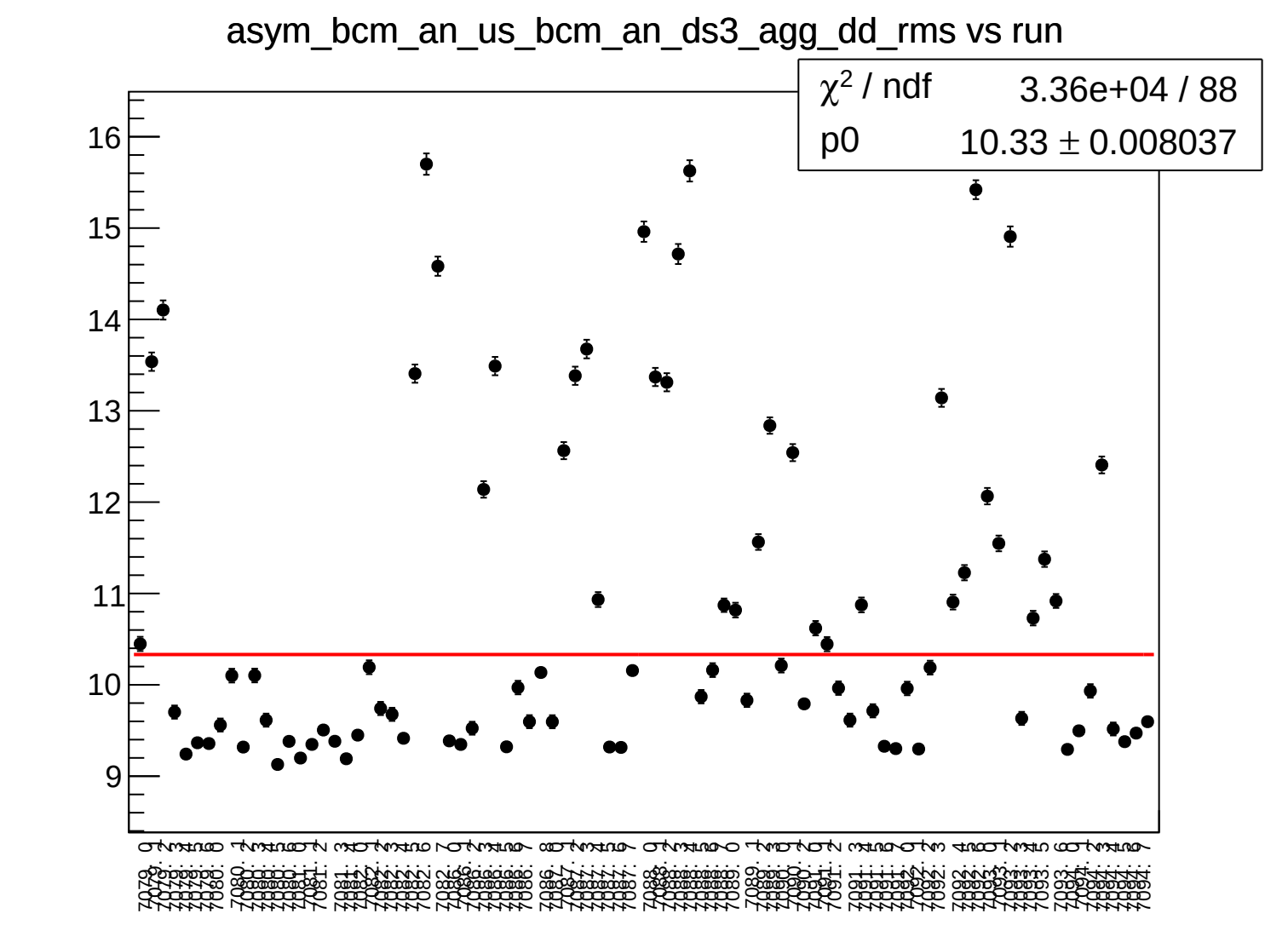

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.821e+04 / 88
p0 13.17 ± 0.01019
18
17
16
15
14
13
12
11

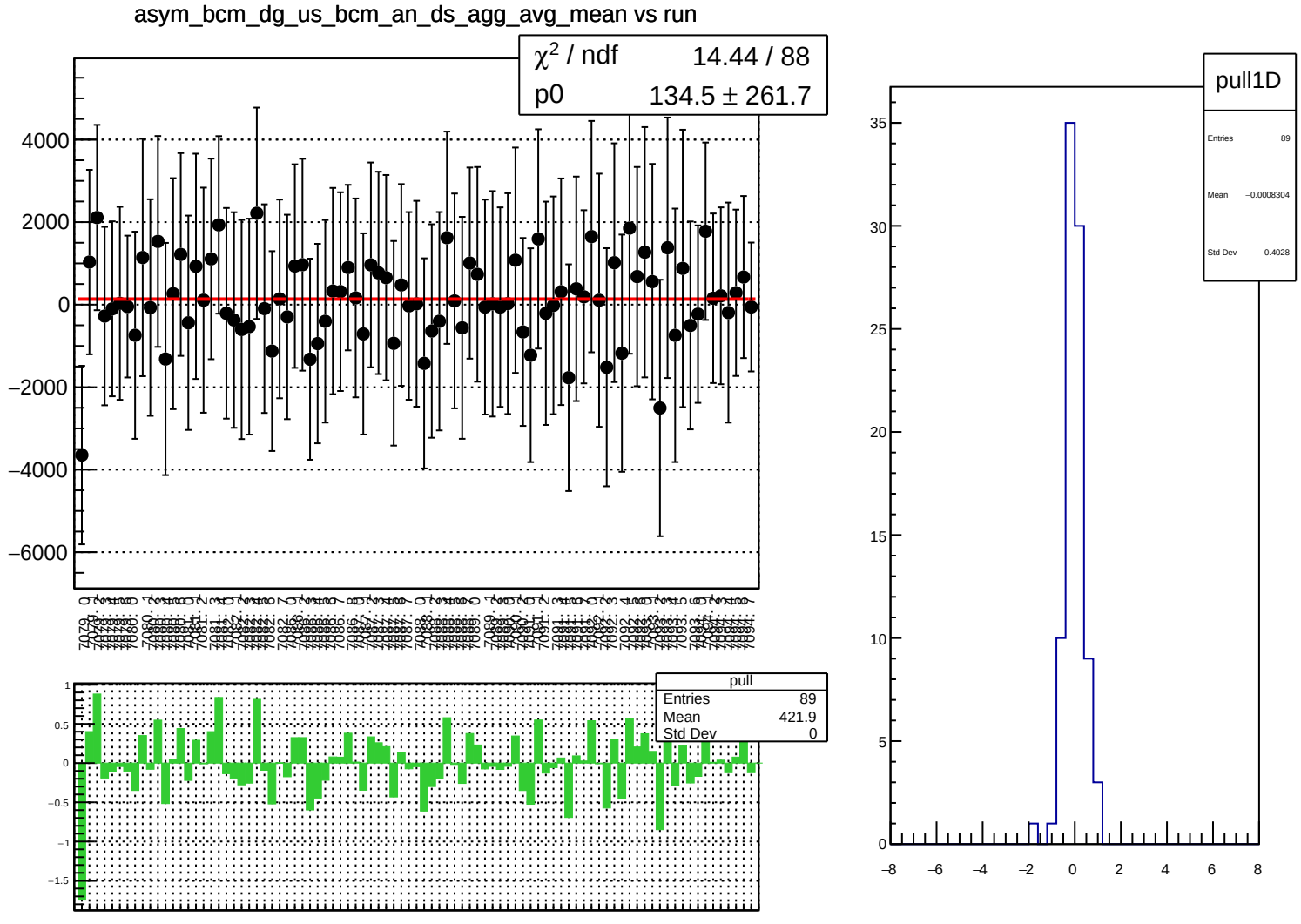

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 13.35 / 88
p0 151.9 ± 260.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −241.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.001774
Std Dev 0.3873
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

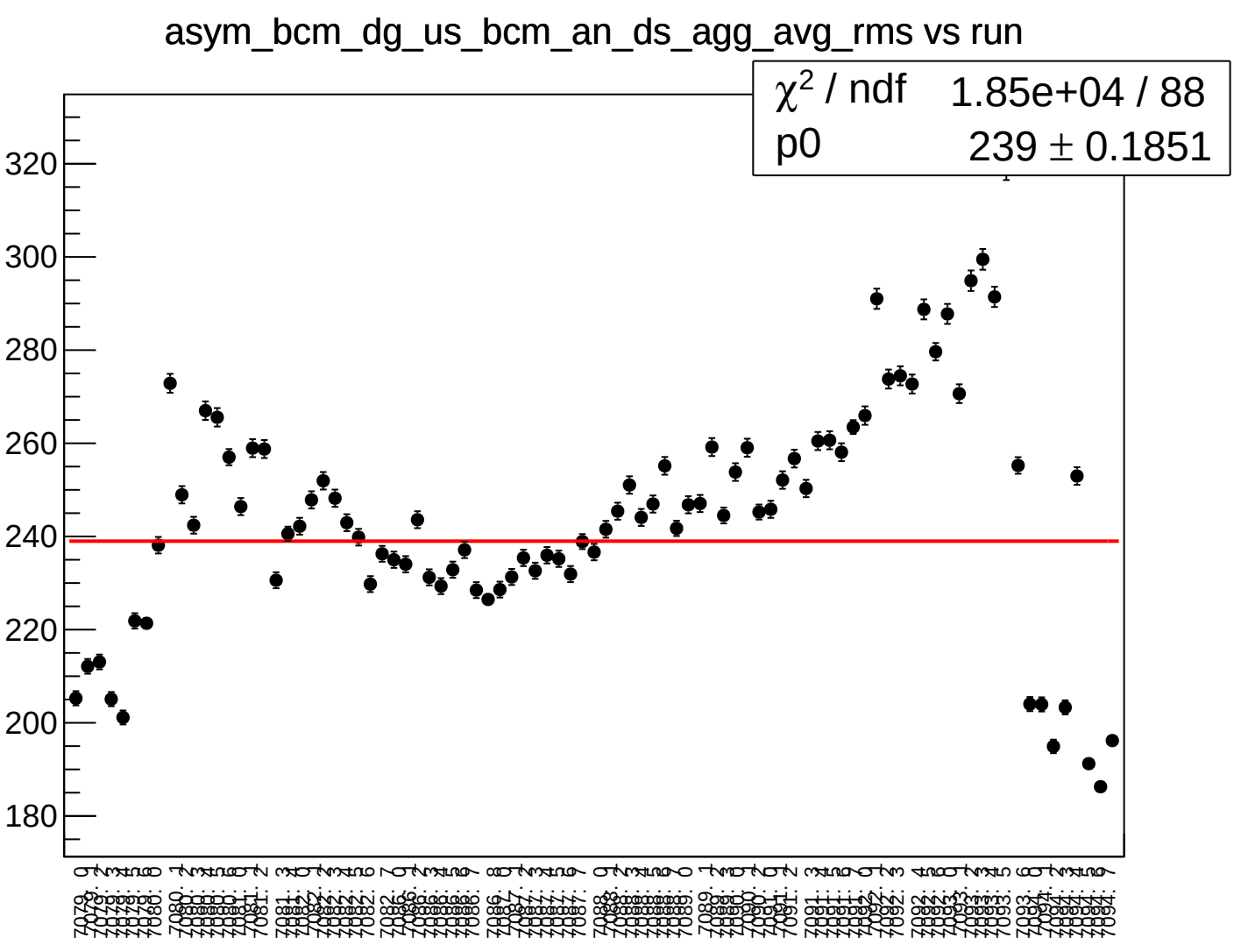

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.914e+04 / 88
p0 238.2 ± 0.1845
320
300
280
260
240
220
200
180

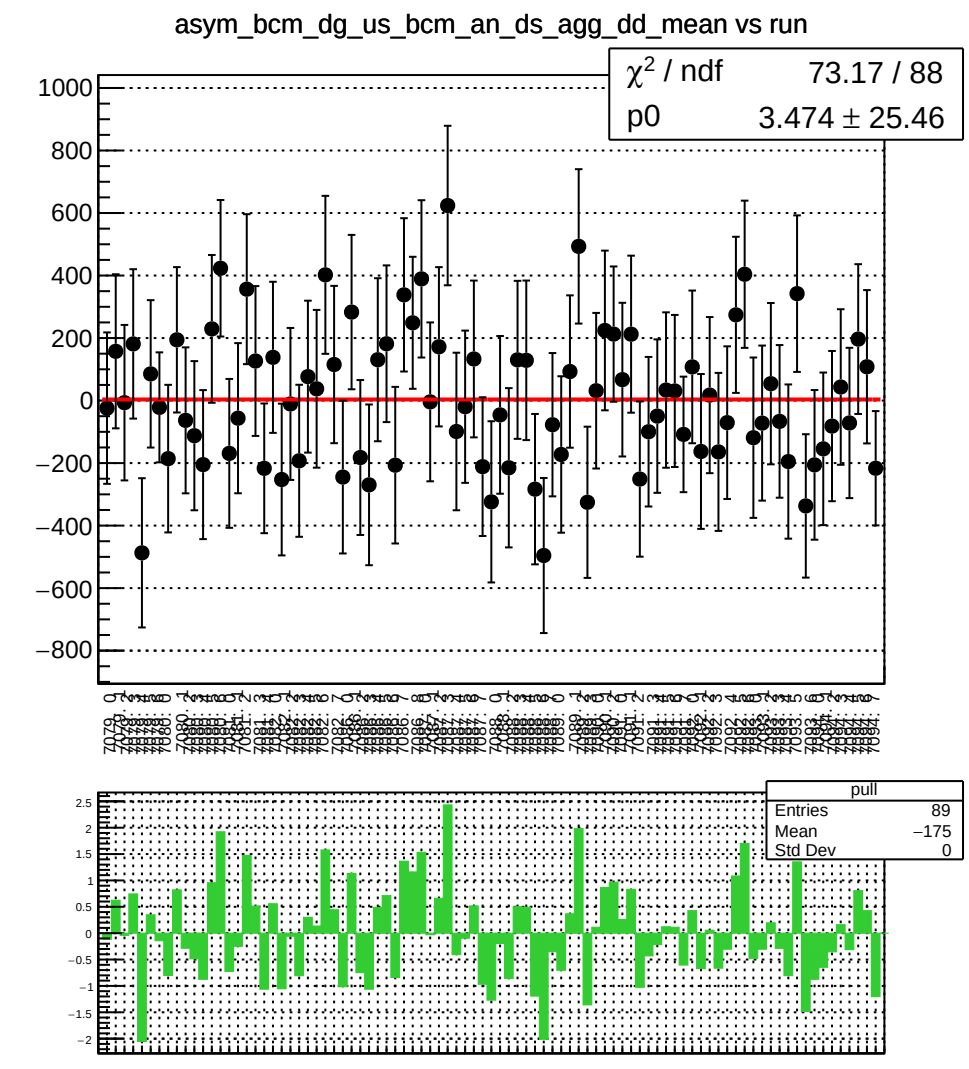

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 72.72 / 88
p0 −6.987 ± 11.37
pull
Entries 89
Mean −69.68
Std Dev 0

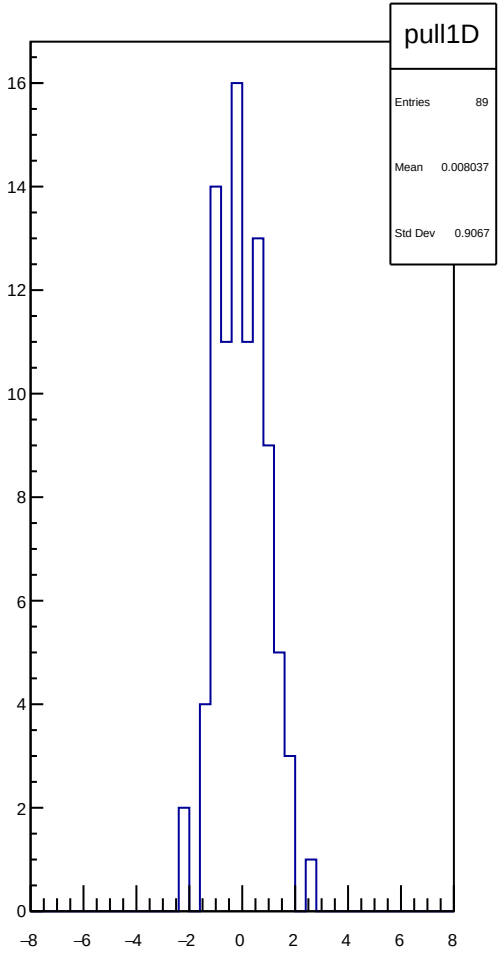

pull1D
Entries 89
Mean 0.02067
Std Dev 0.9037

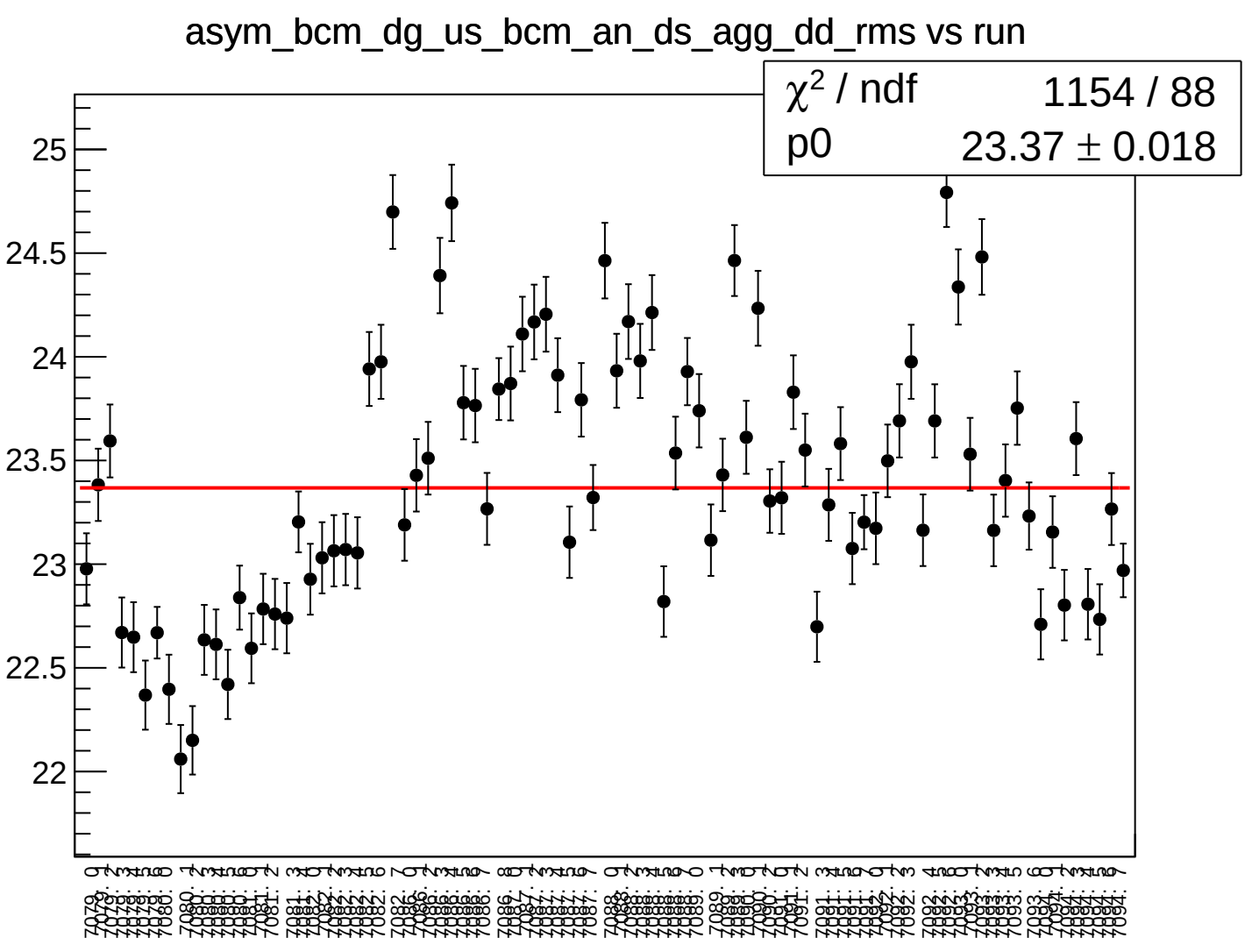

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3.36e+04 / 88
p0 10.33 ± 0.008037
16
15
14
13
12
11
10
9

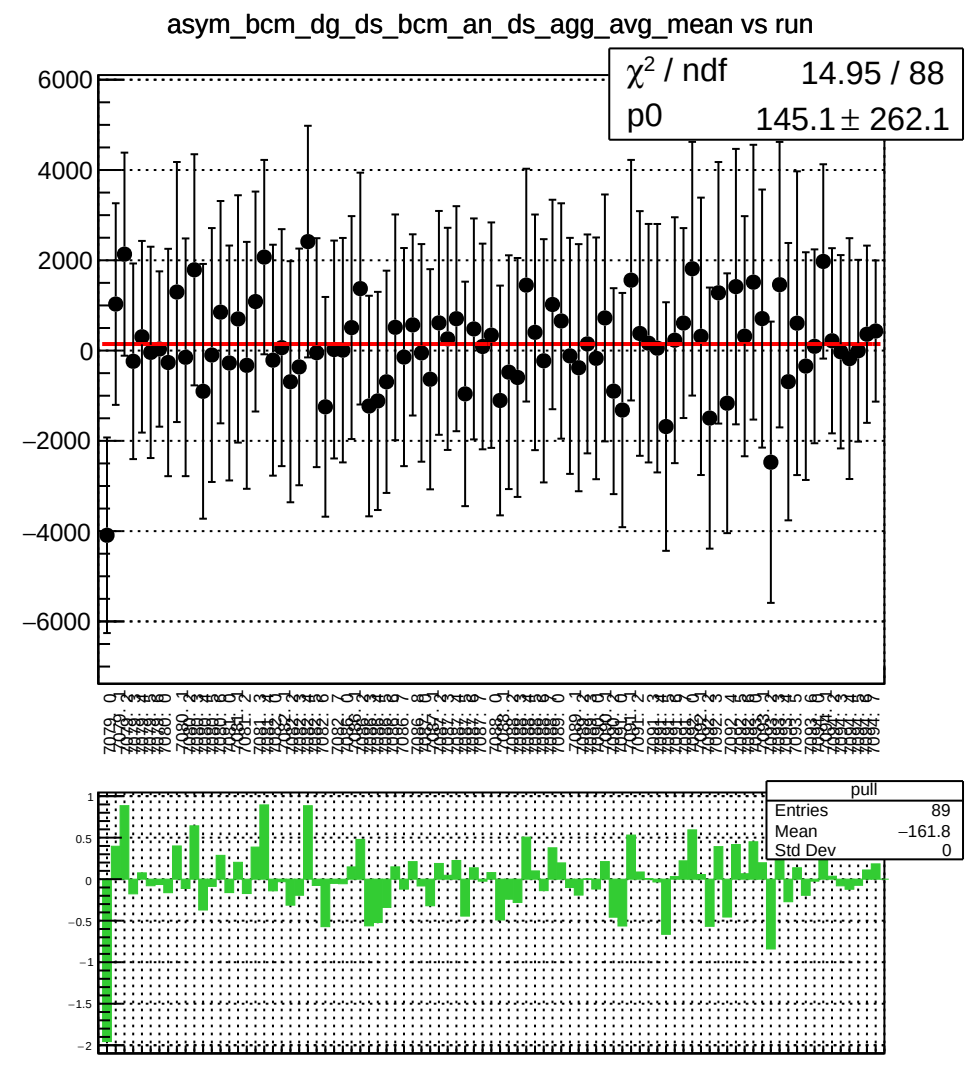

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.44 / 88
p0 134.5 ± 261.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −421.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.0008304
Std Dev 0.4028
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

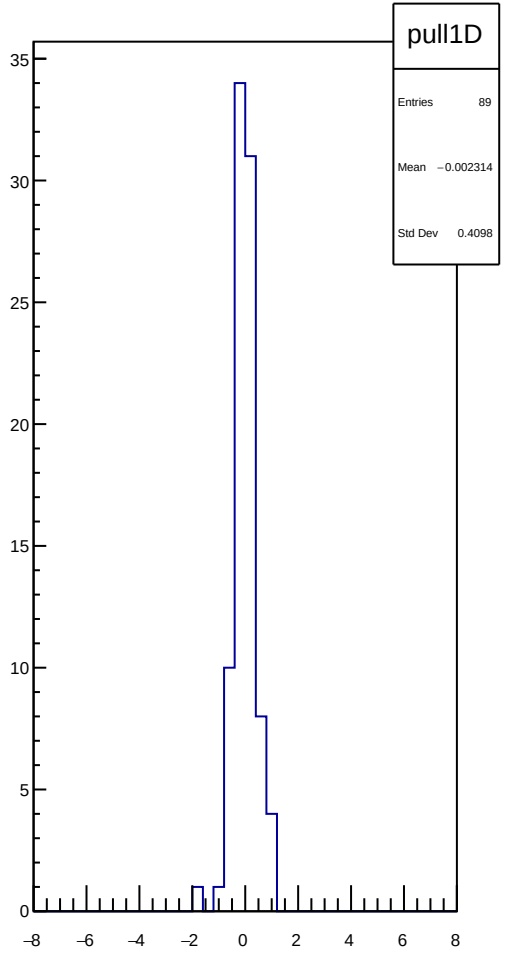

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.85e+04 / 88
p0 239 ± 0.1851
320
300
280
260
240
220
200
180

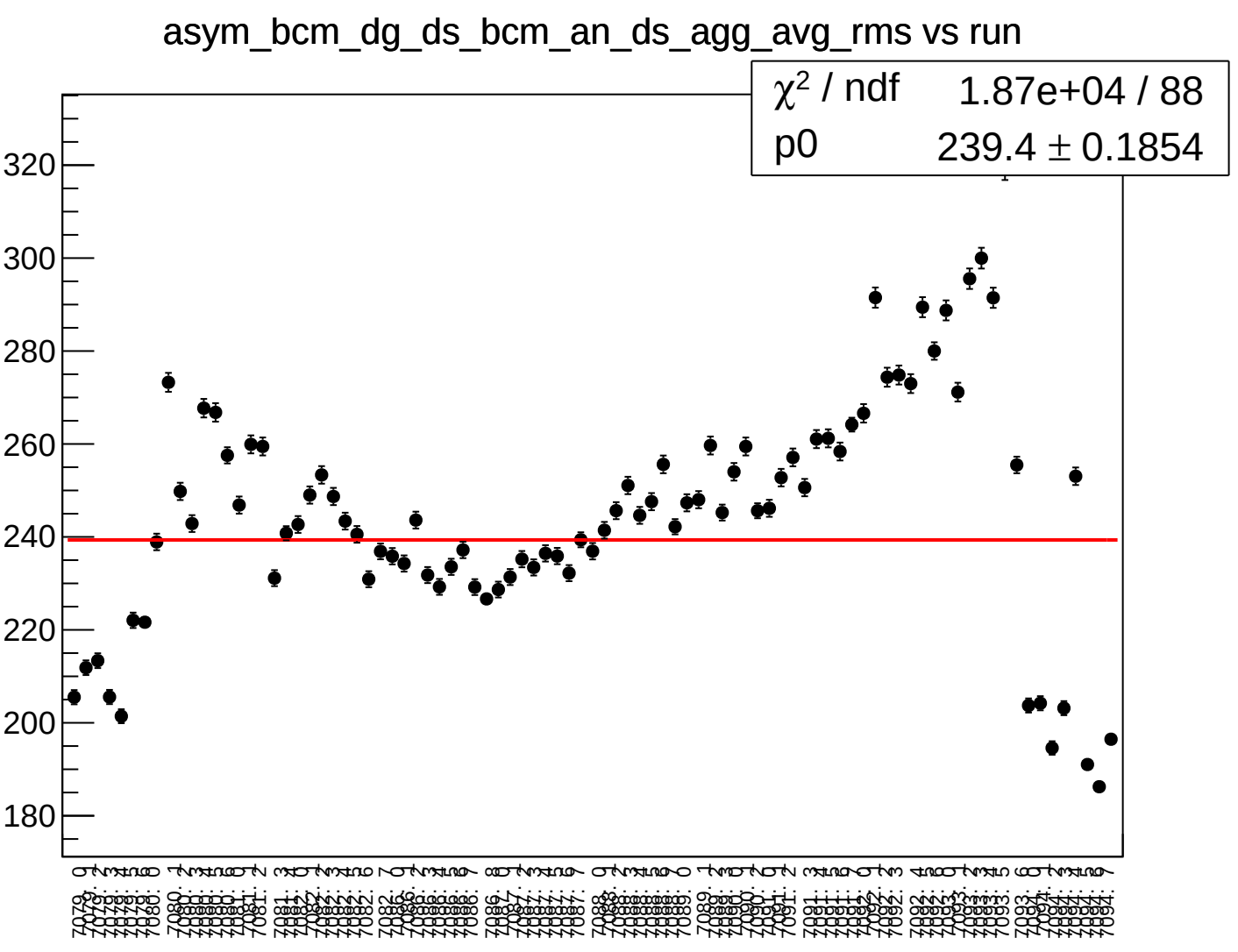

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 73.17 / 88
p0 3.474 ± 25.46
pull
Entries 89
Mean −175
Std Dev 0

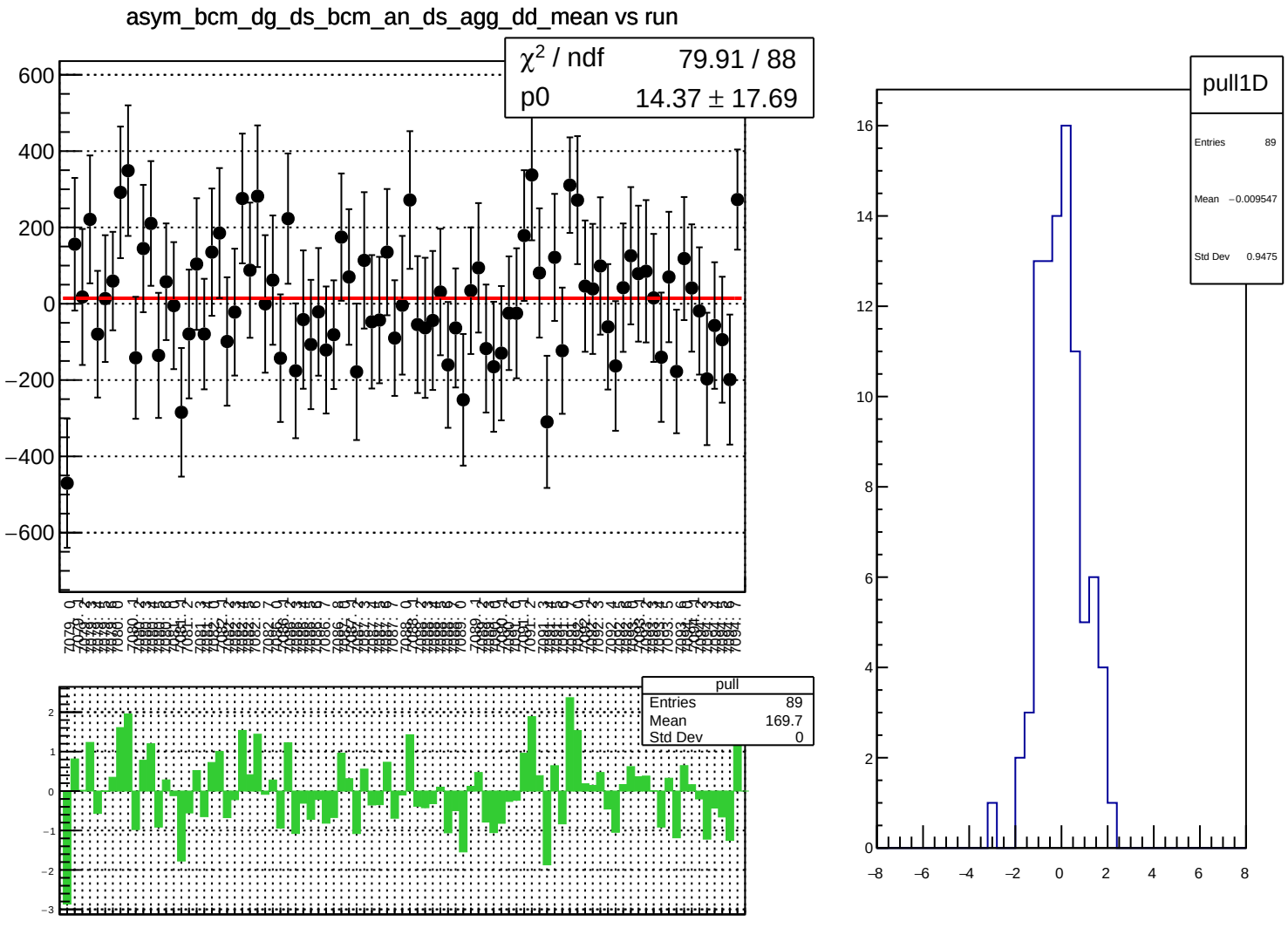

pull1D
Entries 89
Mean 0.008037
Std Dev 0.9067

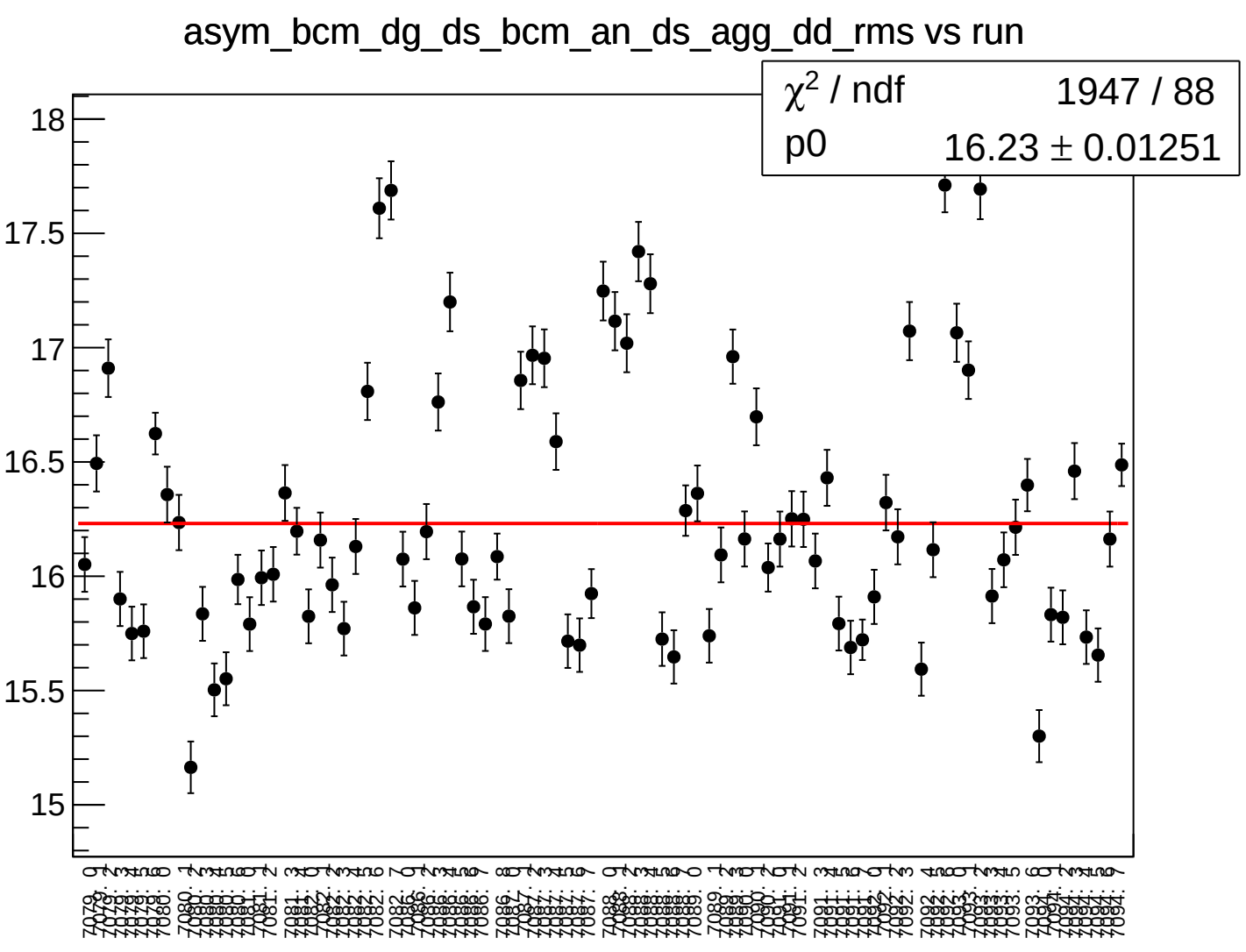

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1154 / 88
p0 23.37 ± 0.018
25
24.5
24
23.5
23
22.5
22

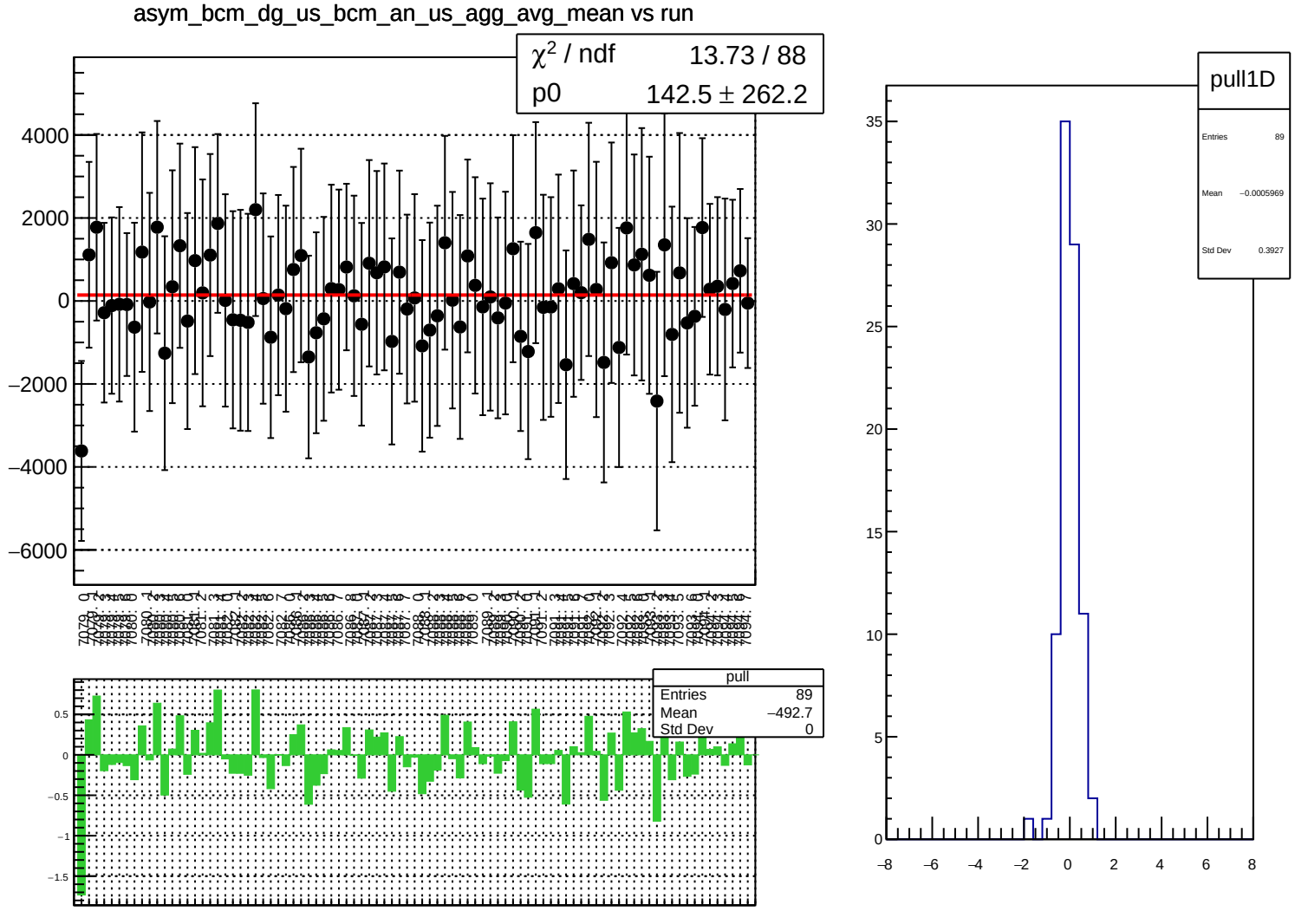

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.95 / 88
p0 145.1 ± 262.1
pull
Entries 89
Mean −161.8
Std Dev 0

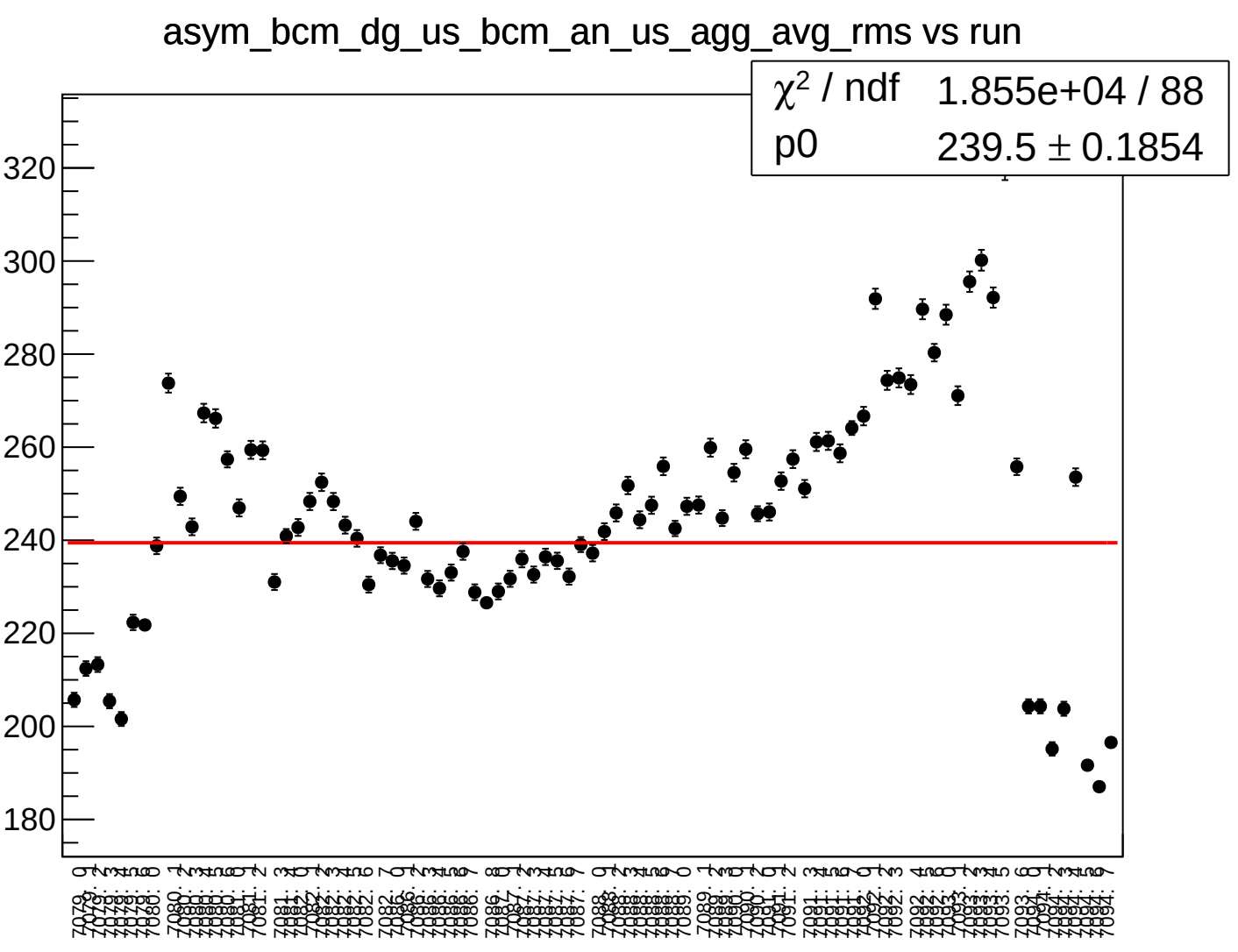

pull1D
Entries 89
Mean −0.002314
Std Dev 0.4098

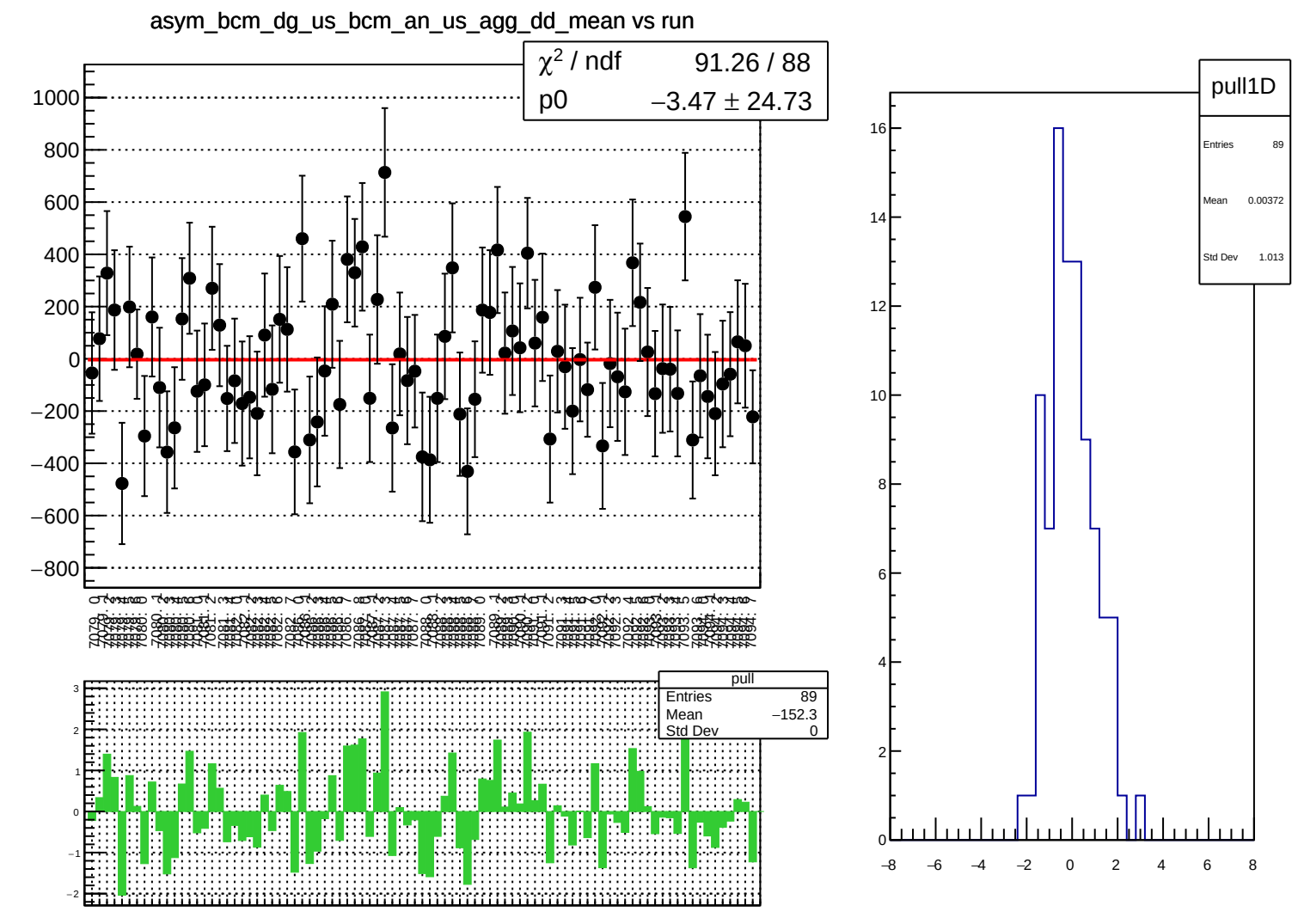

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.87e+04 / 88
p0 239.4 ± 0.1854
320
300
280
260
240
220
200
180

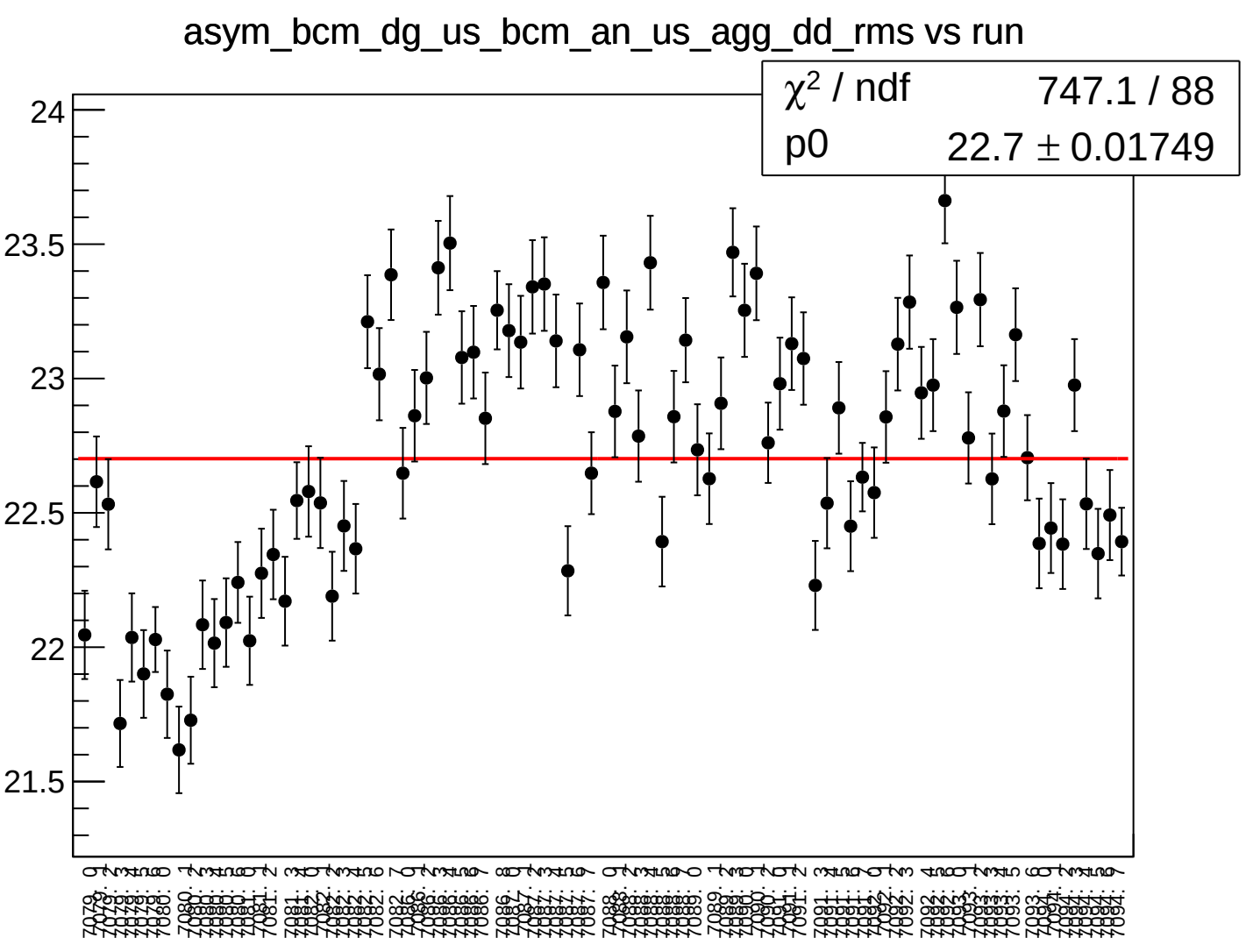

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 79.91 / 88
p0 14.37 ± 17.69
pull
Entries 89
Mean 169.7
Std Dev 0
pull1D
Entries 89
Mean −0.009547
Std Dev 0.9475

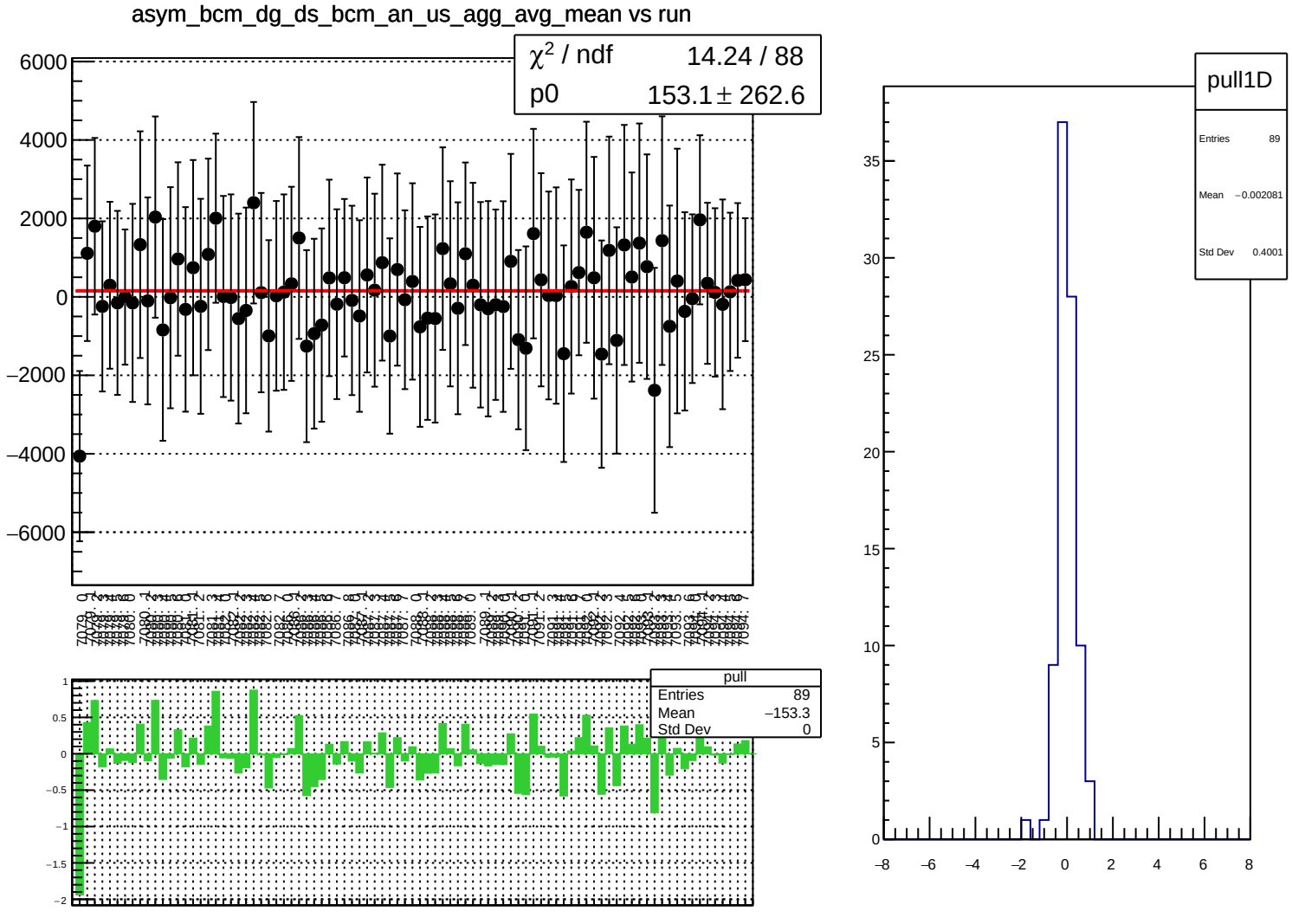

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1947 / 88
p0 16.23 ± 0.01251
18
17.5
17
16.5
16
15.5
15

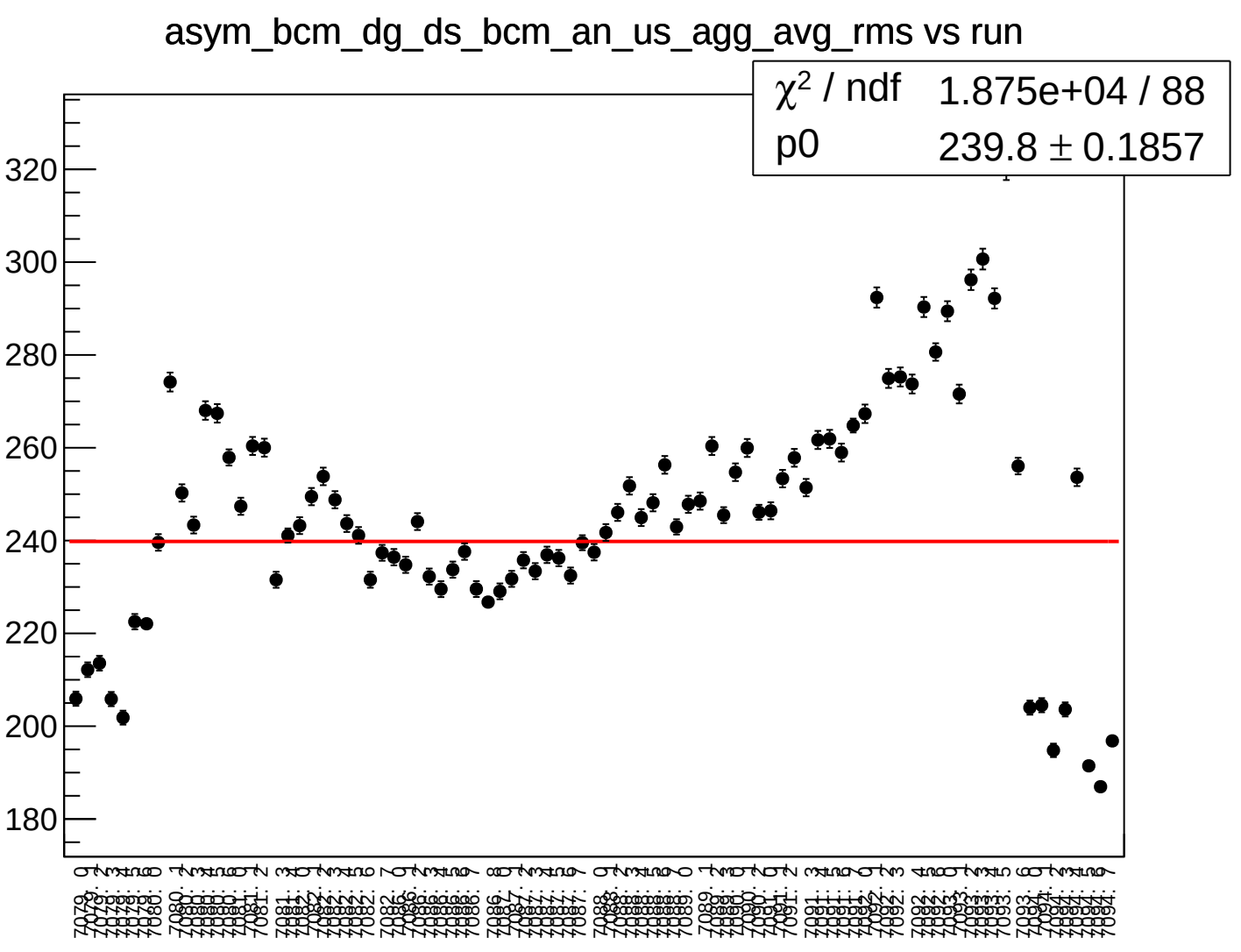

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.73 / 88
p0 142.5 ± 262.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −492.7
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.0005969
Std Dev 0.3927
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

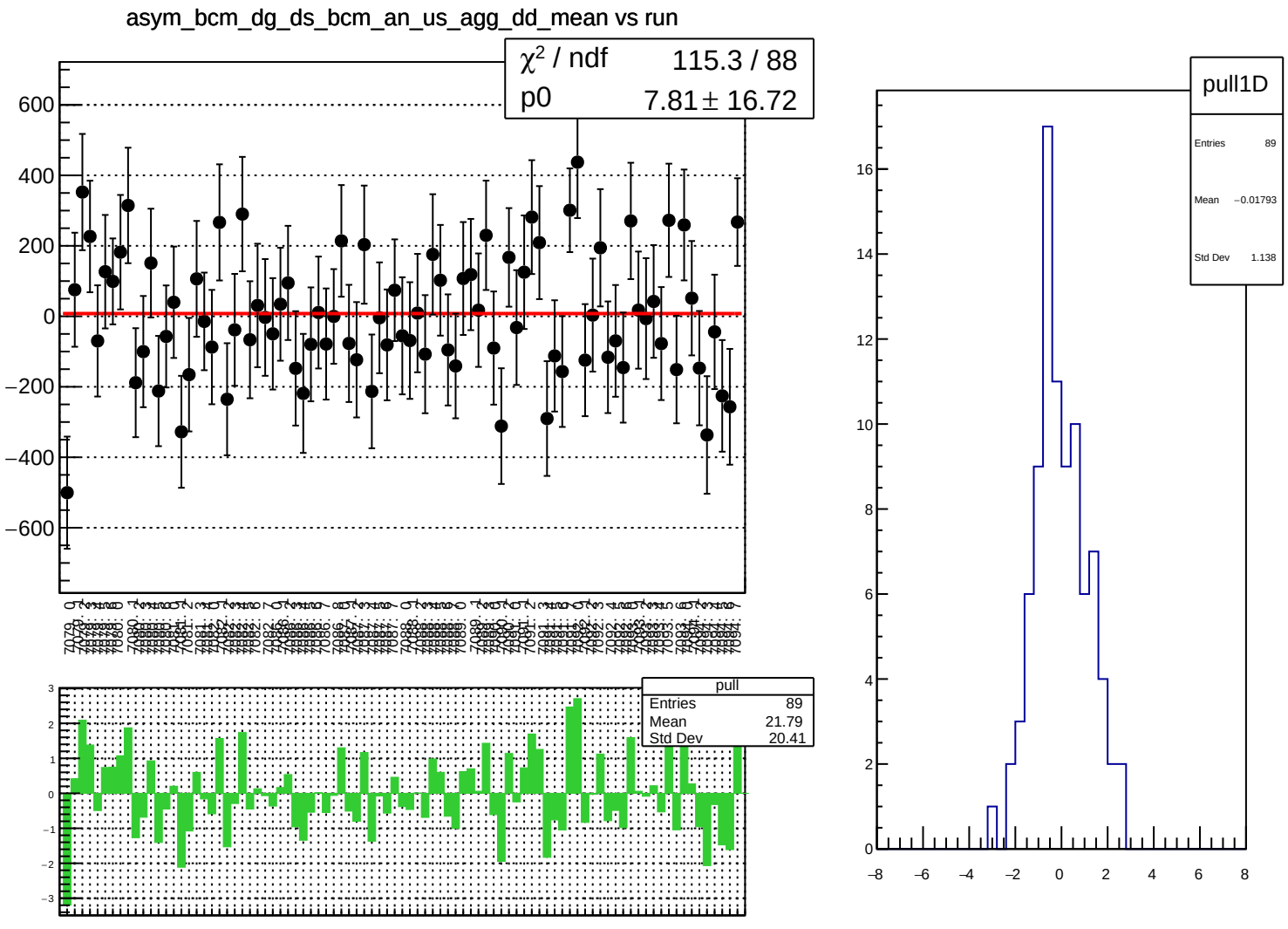

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.855e+04 / 88
p0 239.5 ± 0.1854
320
300
280
260
240
220
200
180

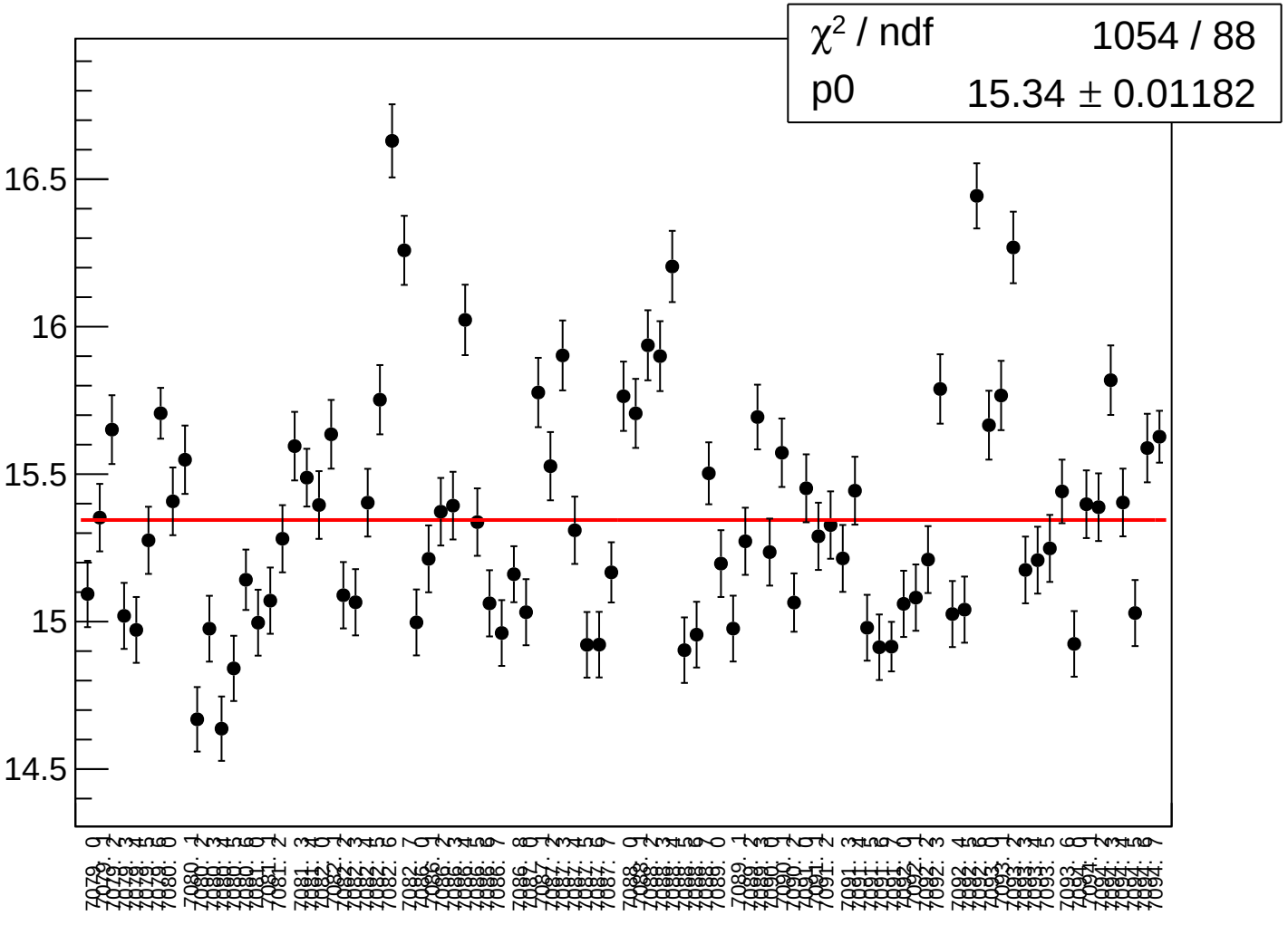

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 91.26 / 88
p0 −3.47 ± 24.73
pull
Entries 89
Mean −152.3
Std Dev 0
pull1D
Entries 89
Mean 0.00372
Std Dev 1.013

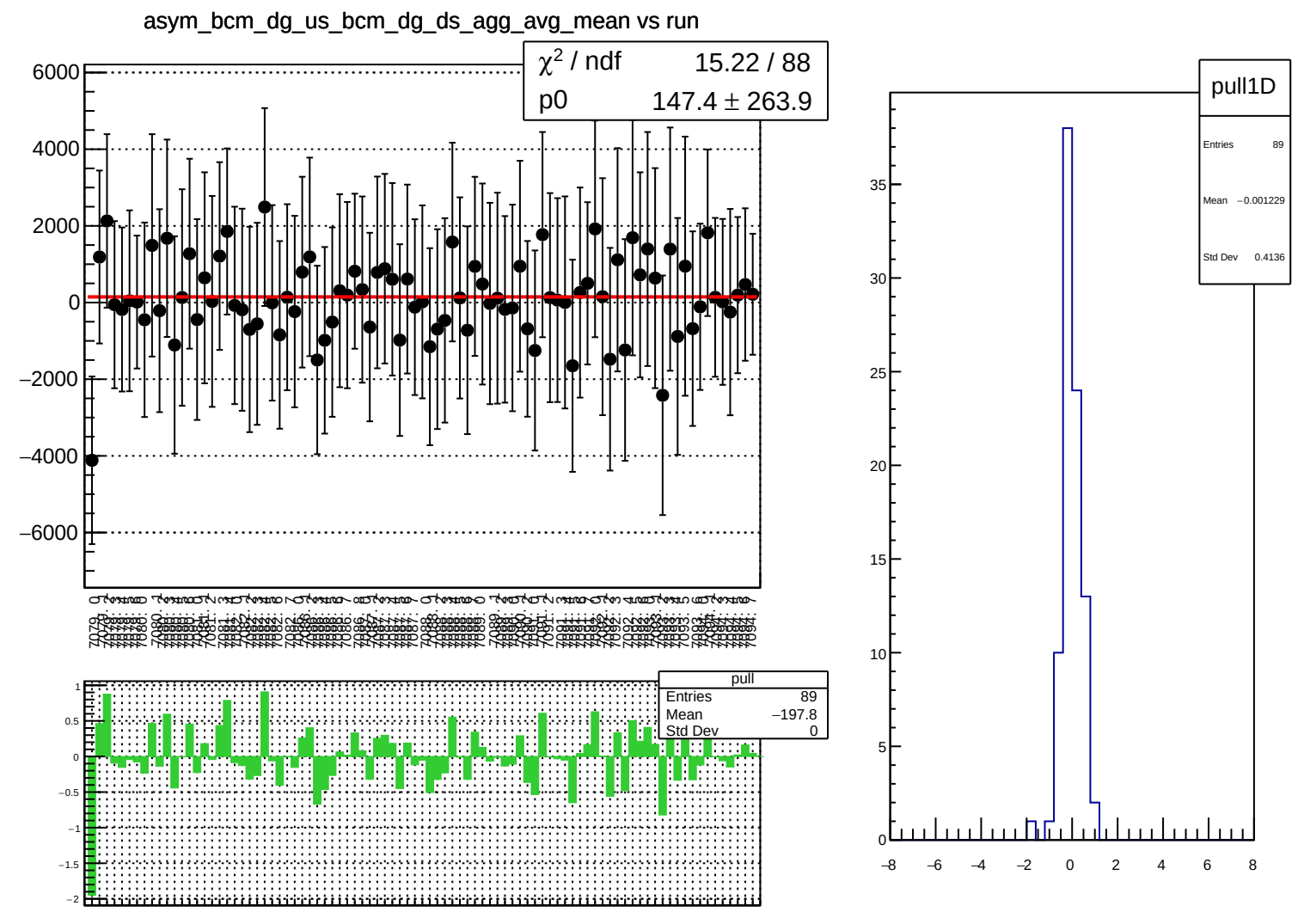

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 747.1 / 88
p0 22.7 ± 0.01749
24
23.5
23
22.5
22
21.5

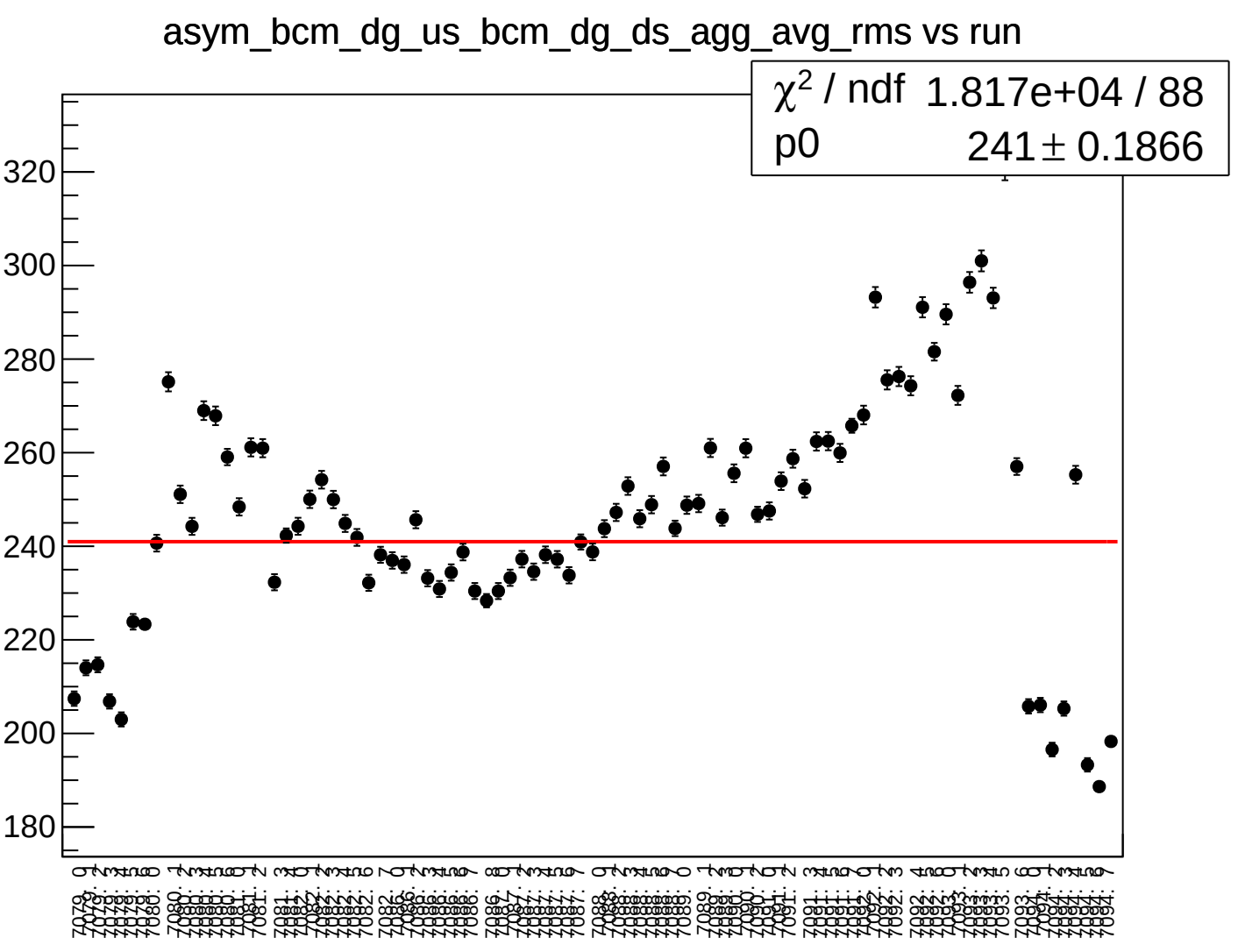

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.24 / 88
p0 153.1 ± 262.6
pull
Entries 89
Mean −153.3
Std Dev 0
pull1D
Entries 89
Mean −0.002081
Std Dev 0.4001

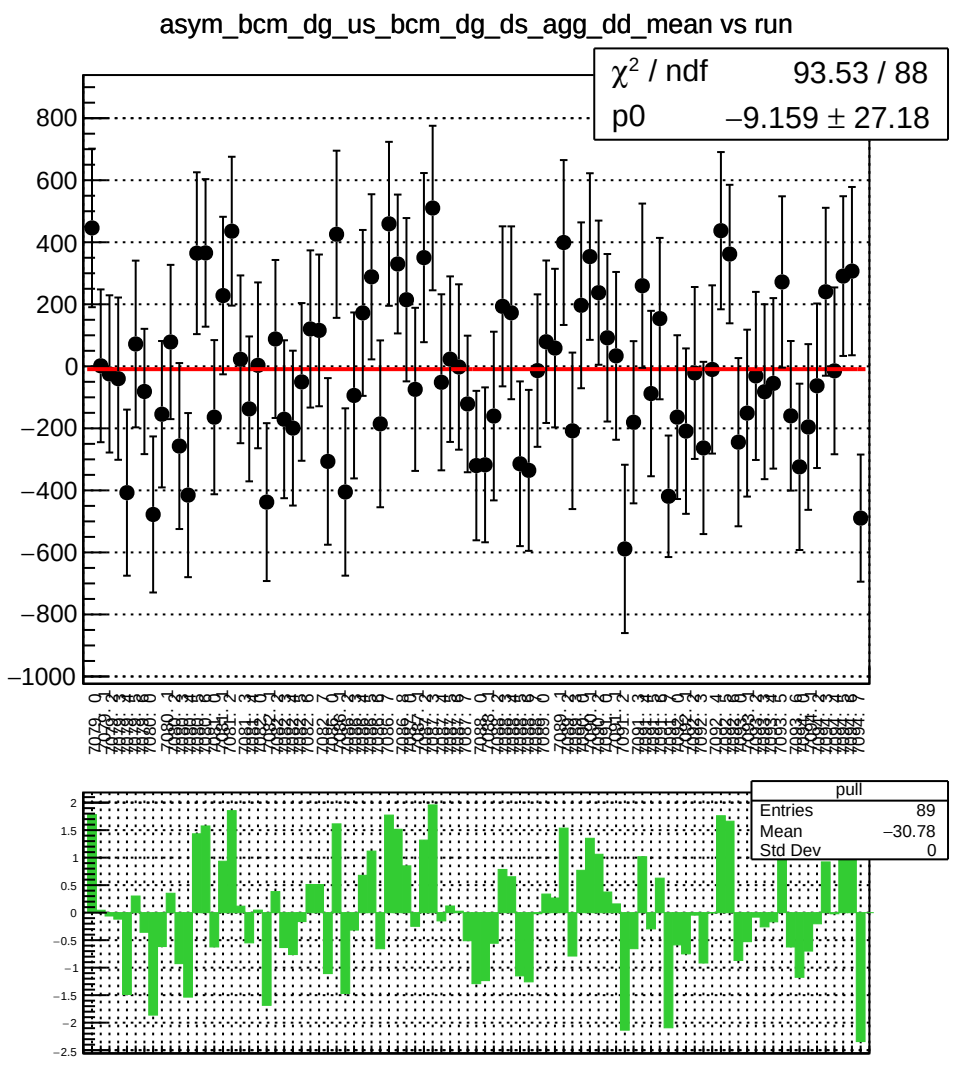

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.875e+04 / 88
p0 239.8 ± 0.1857
320
300
280
260
240
220
200
180

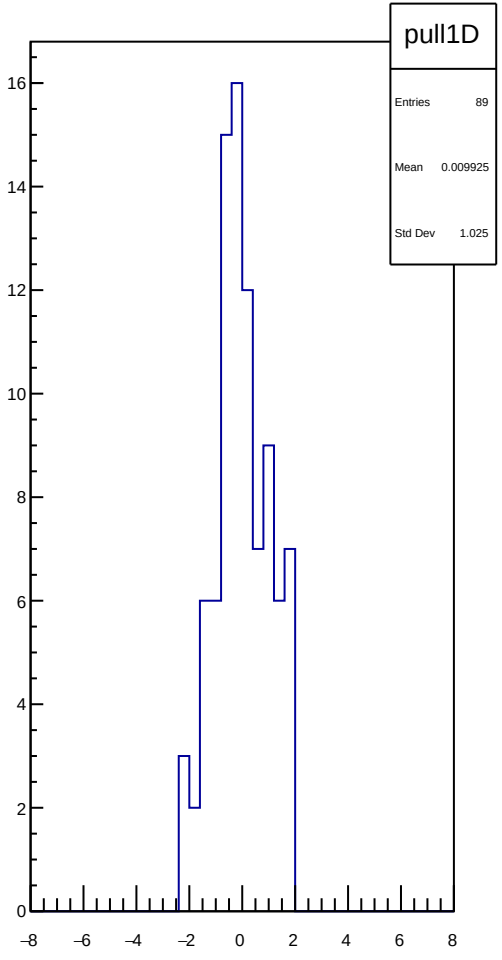

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 115.3 / 88
p0 7.81 ± 16.72
pull
Entries 89
Mean 21.79
Std Dev 20.41
pull1D
Entries 89
Mean −0.01793
Std Dev 1.138

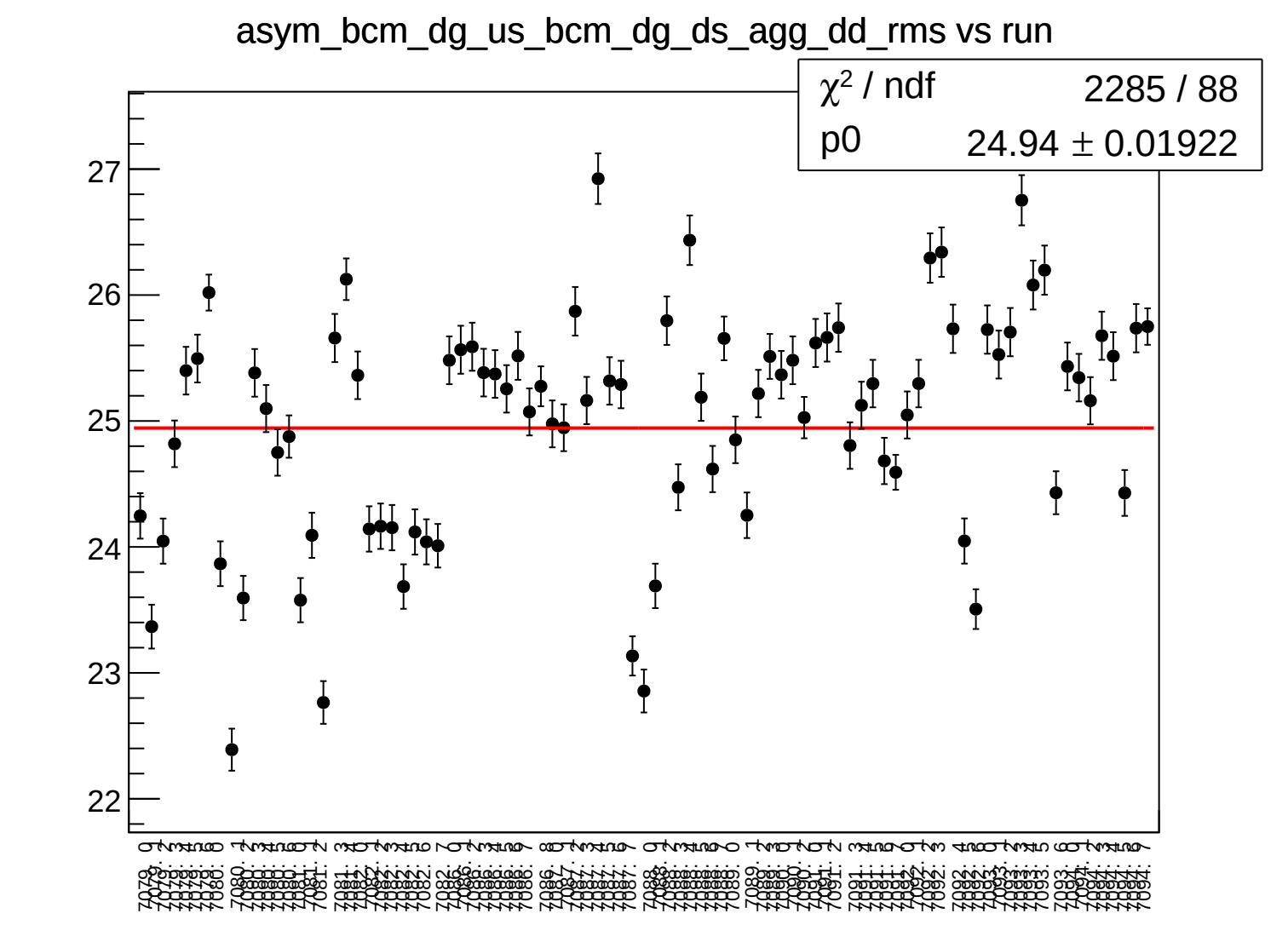

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1054 / 88
p0 15.34 ± 0.01182
16.5
16
15.5
15
14.5

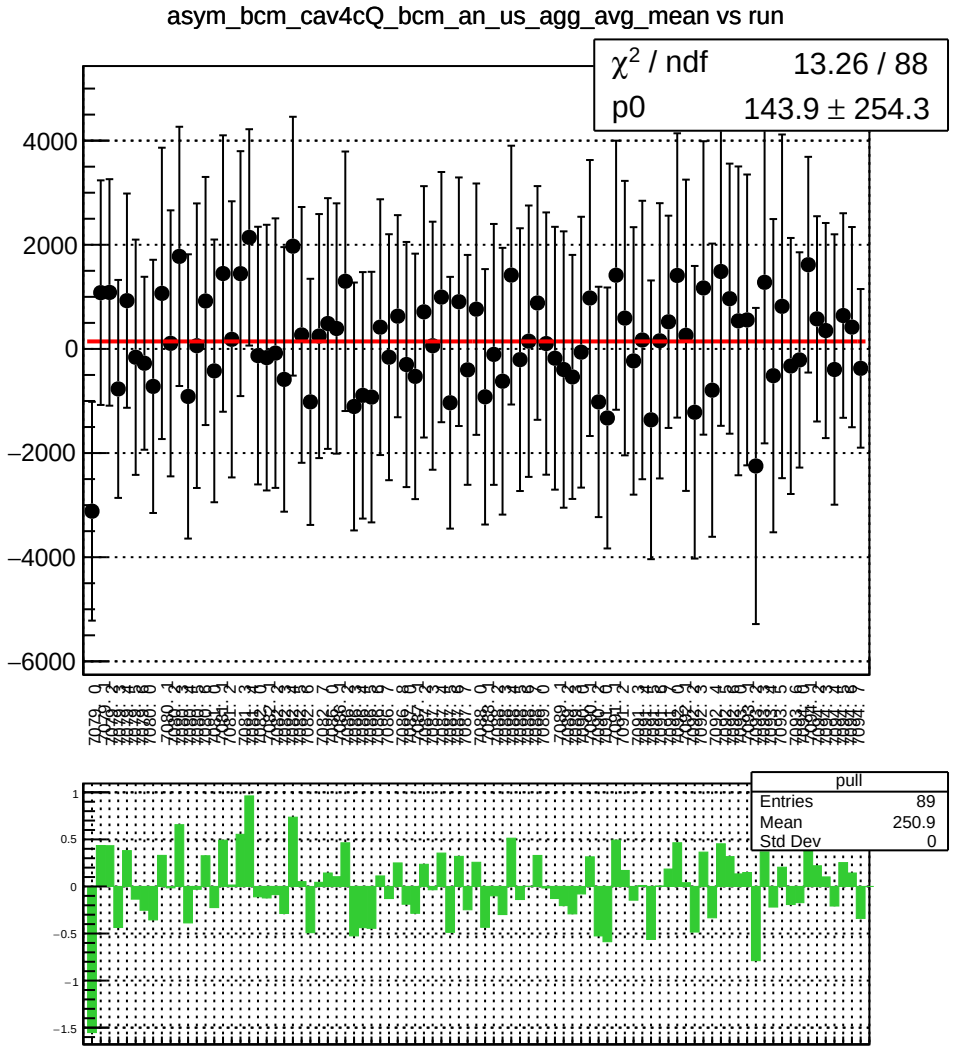

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 15.22 / 88
p0 147.4 ± 263.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −197.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.001229
Std Dev 0.4136
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

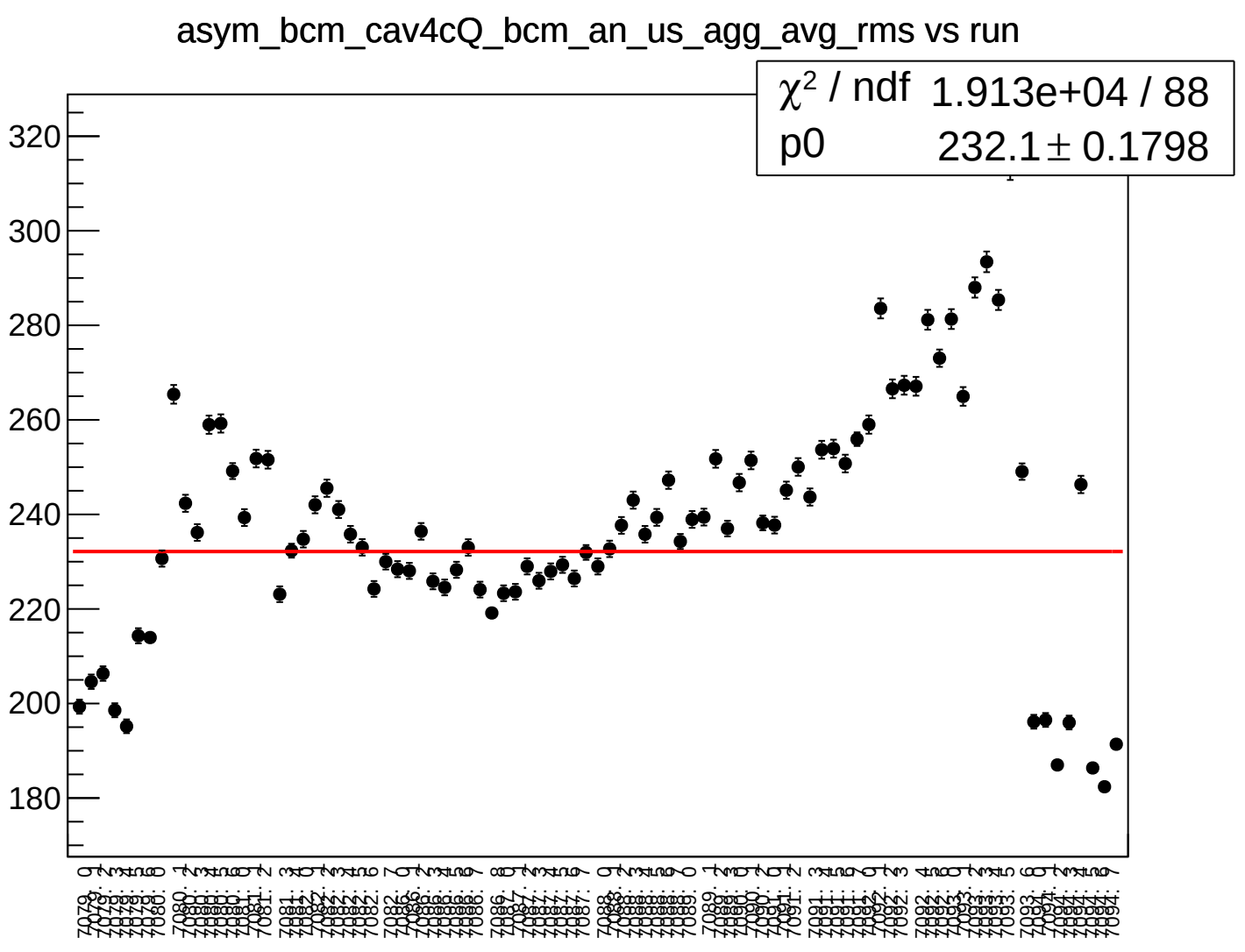

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.817e+04 / 88
p0 241 ± 0.1866
320
300
280
260
240
220
200
180

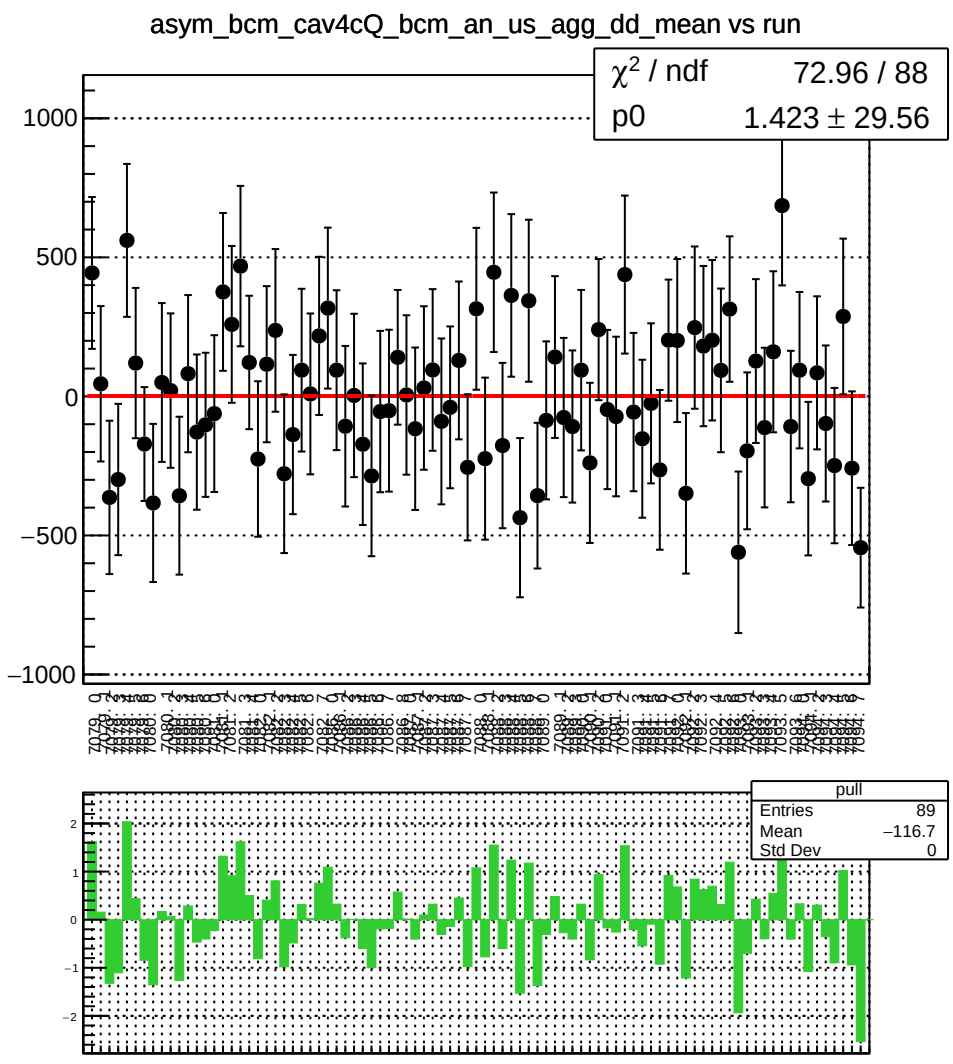

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 93.53 / 88
p0 −9.159 ± 27.18
pull
Entries 89
Mean −30.78
Std Dev 0

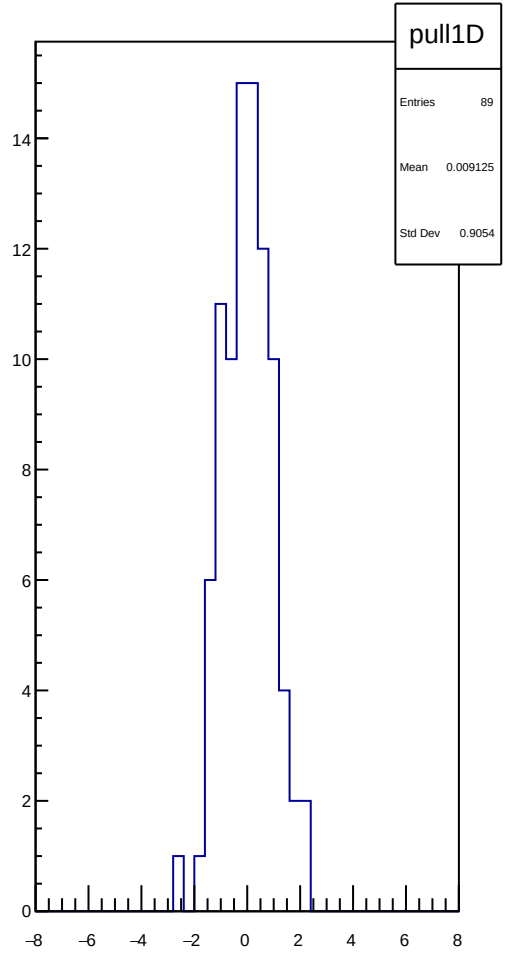

pull1D
Entries 89
Mean 0.009925
Std Dev 1.025

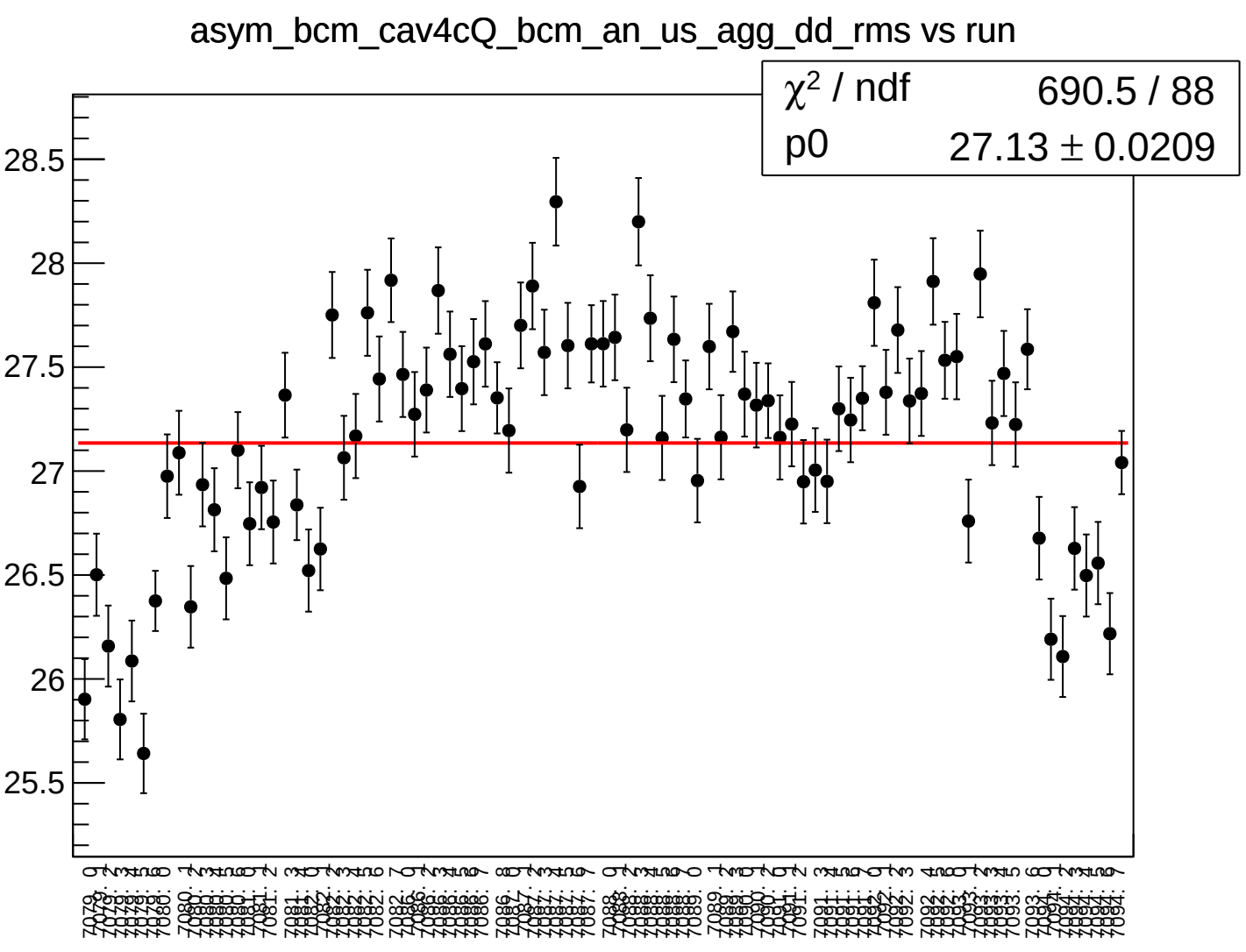

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2285 / 88
p0 24.94 ± 0.01922
27
26
25
24
23
22

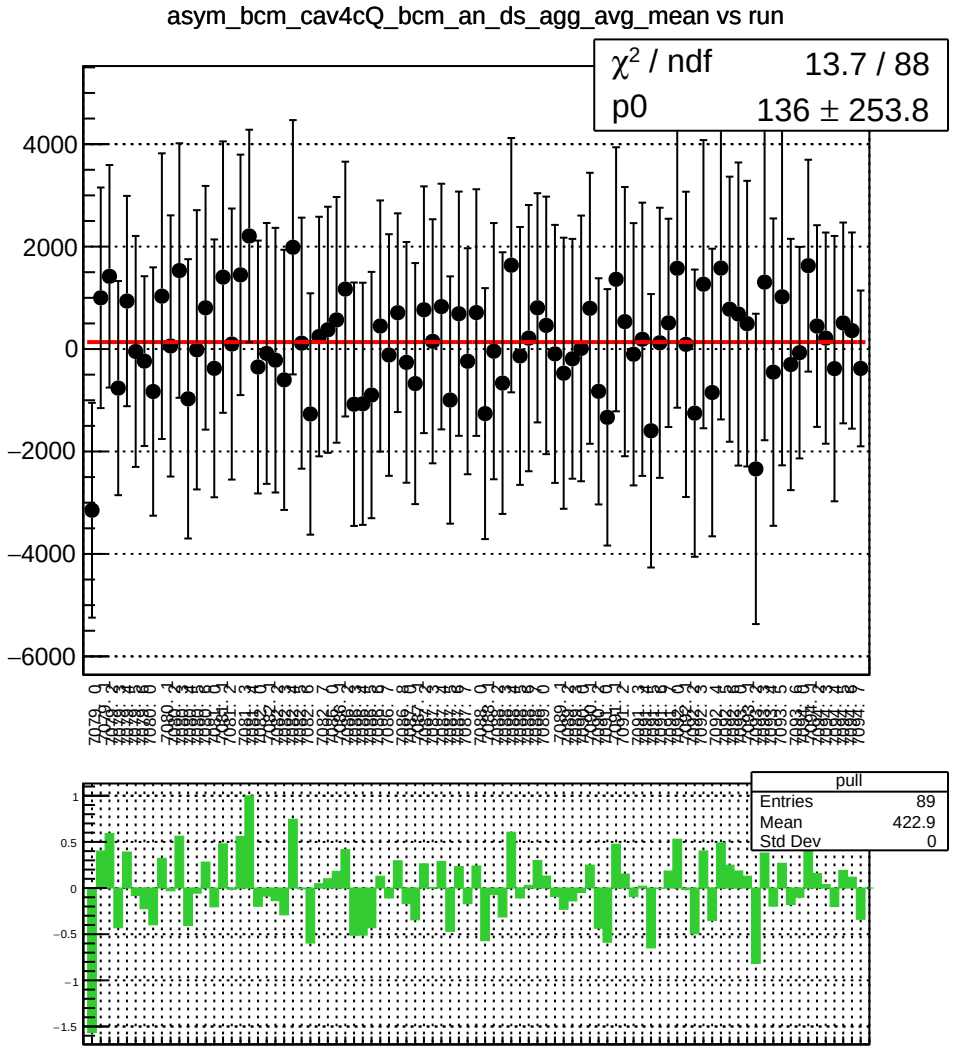

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.26 / 88
p0 143.9 ± 254.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 250.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.0009732
Std Dev 0.3861
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

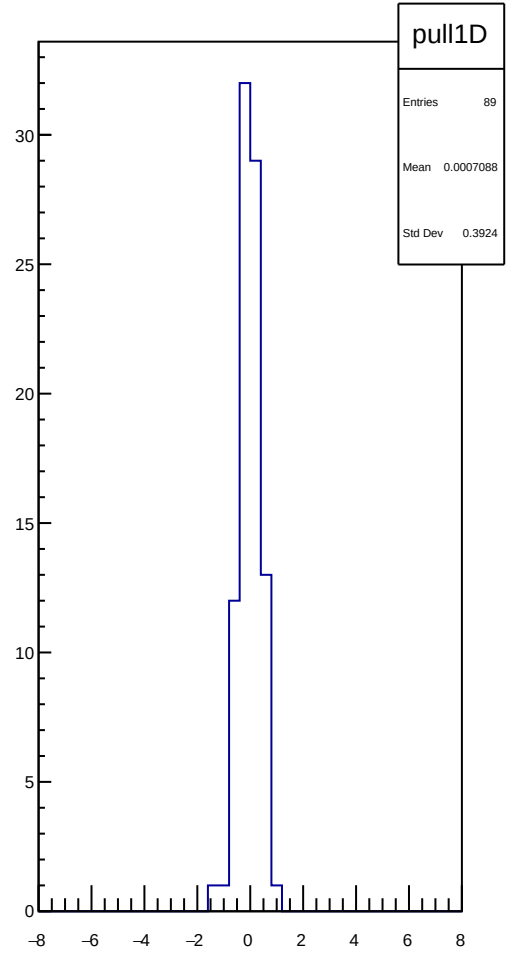

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.913e+04 / 88
p0 232.1 ± 0.1798
320
300
280
260
240
220
200
180

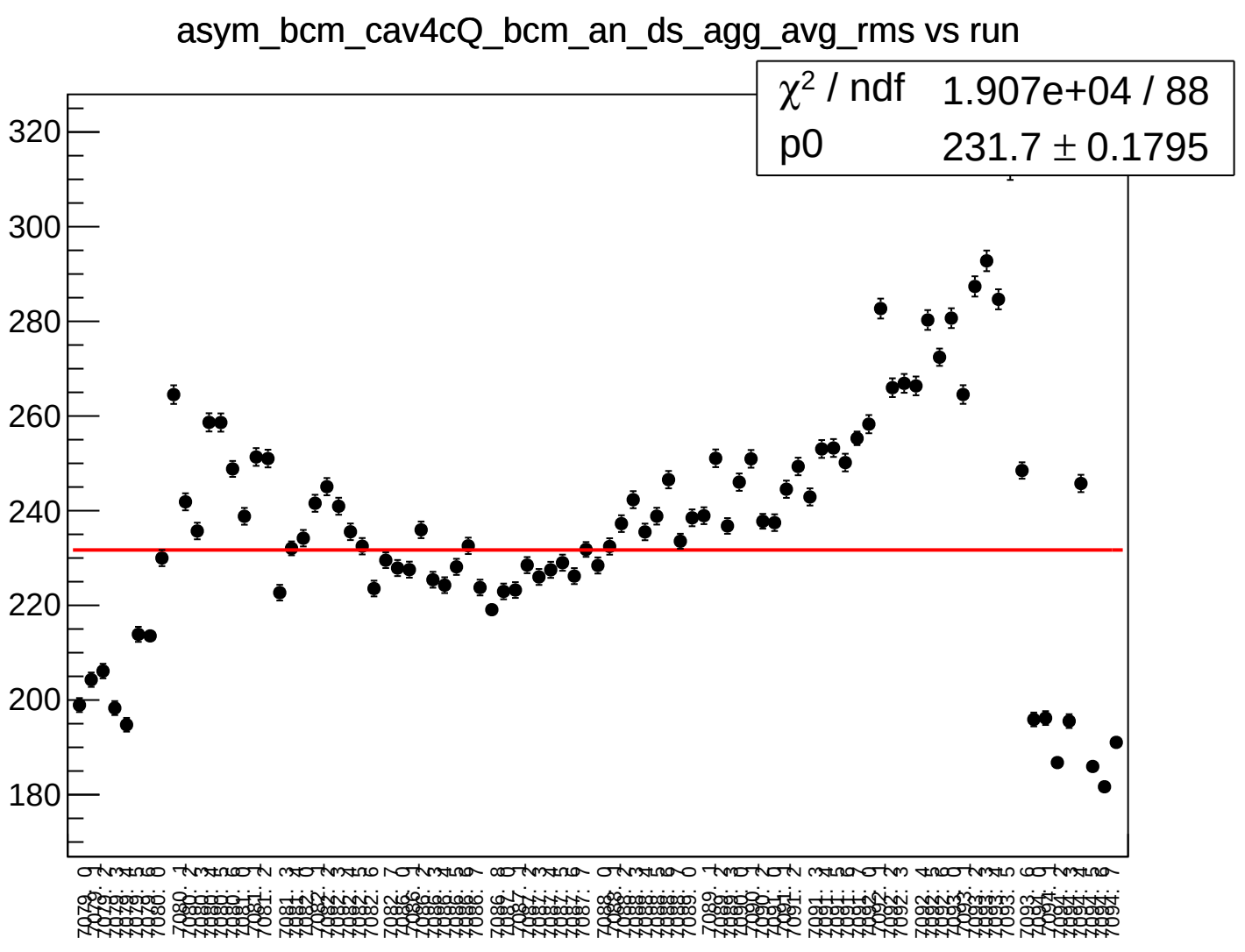

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 72.96 / 88
p0 1.423 ± 29.56
1000
500
0
−500
−1000
pull
Entries 89
Mean −116.7
Std Dev 0
2
1
0
−1
−2

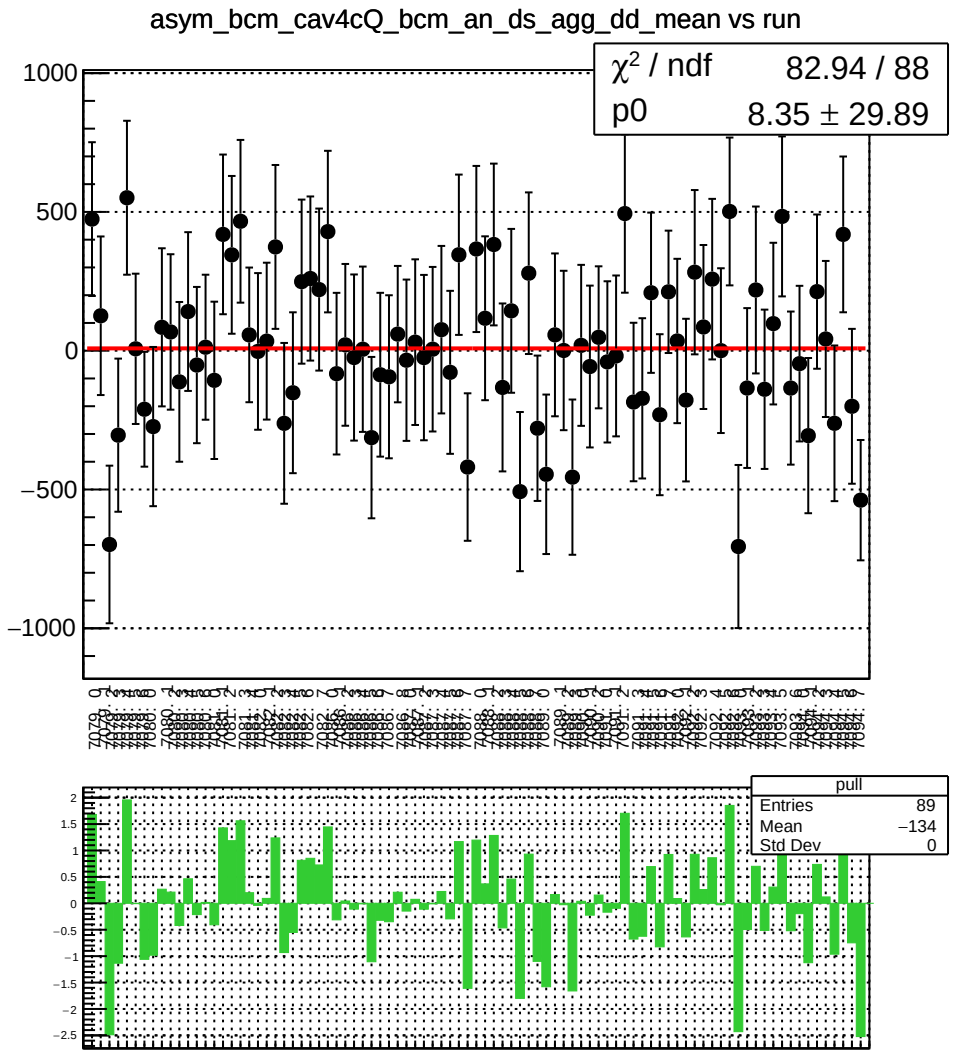

pull1D
Entries 89
Mean 0.009125
Std Dev 0.9054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

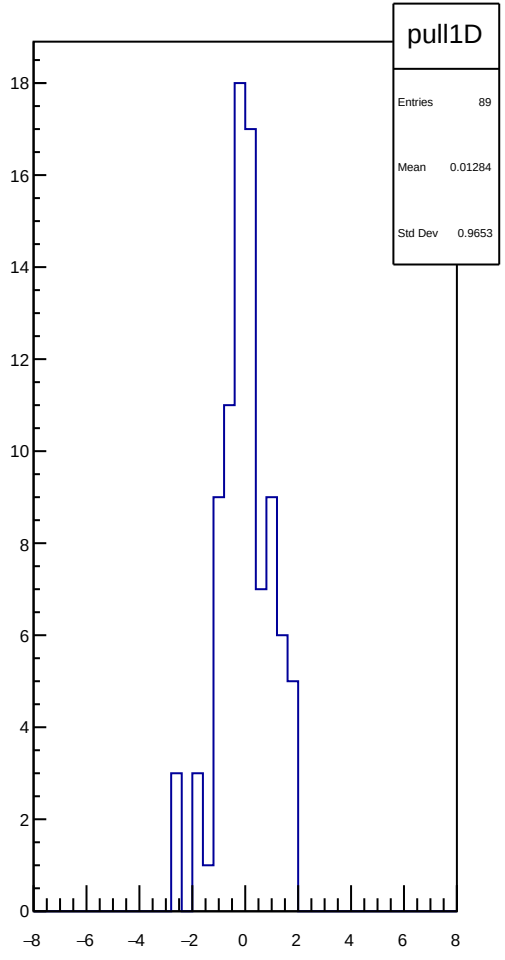

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 690.5 / 88
p0 27.13 ± 0.0209
28.5
28
27.5
27
26.5
26
25.5

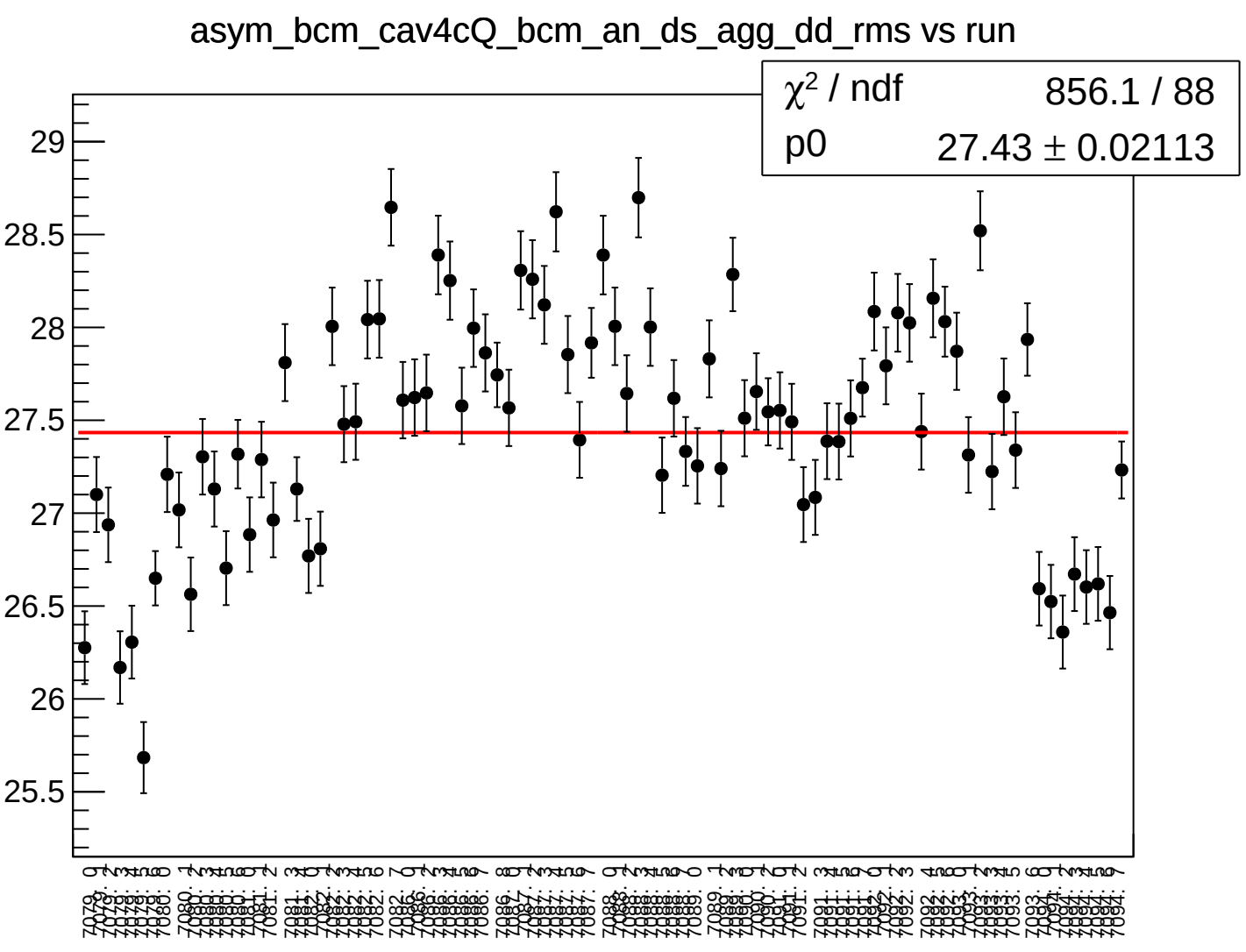

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.7 / 88
p0 136 ± 253.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 422.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

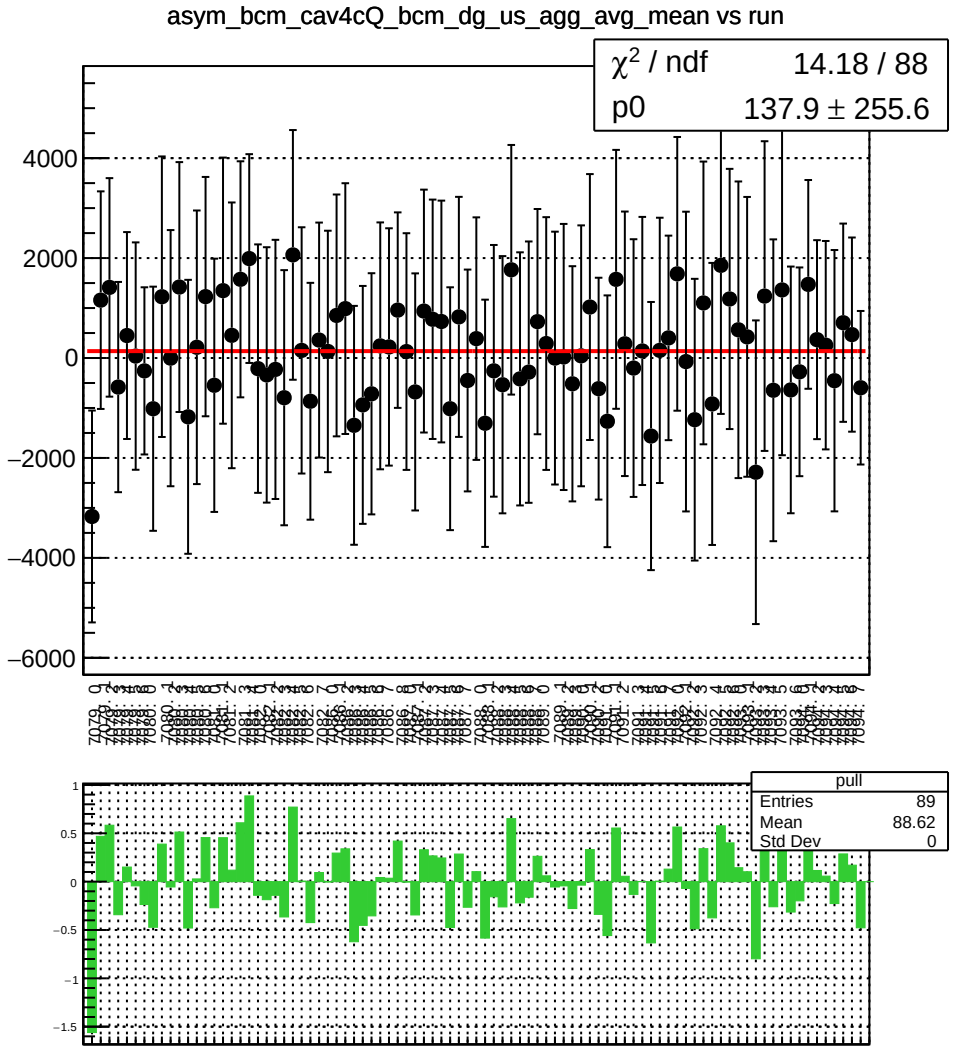

pull1D
Entries 89
Mean 0.0007088
Std Dev 0.3924
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

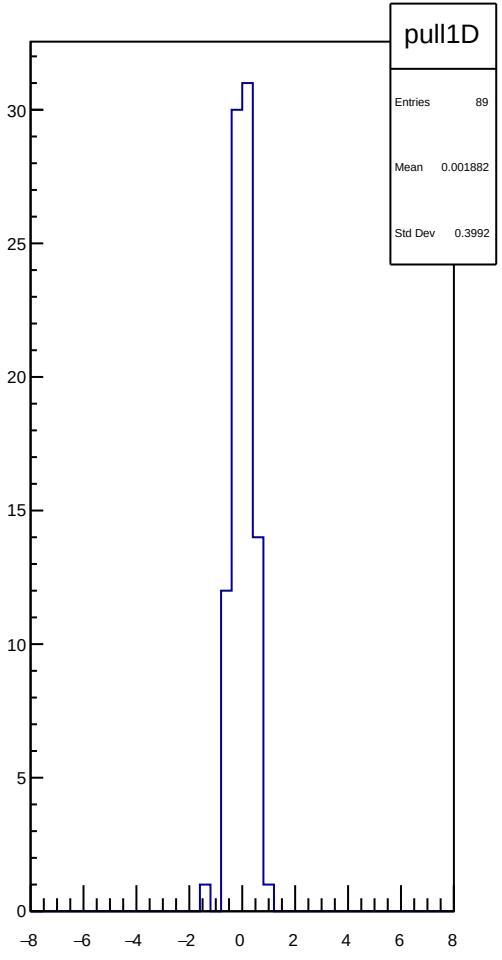

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.907e+04 / 88
p0 231.7 ± 0.1795
320
300
280
260
240
220
200
180

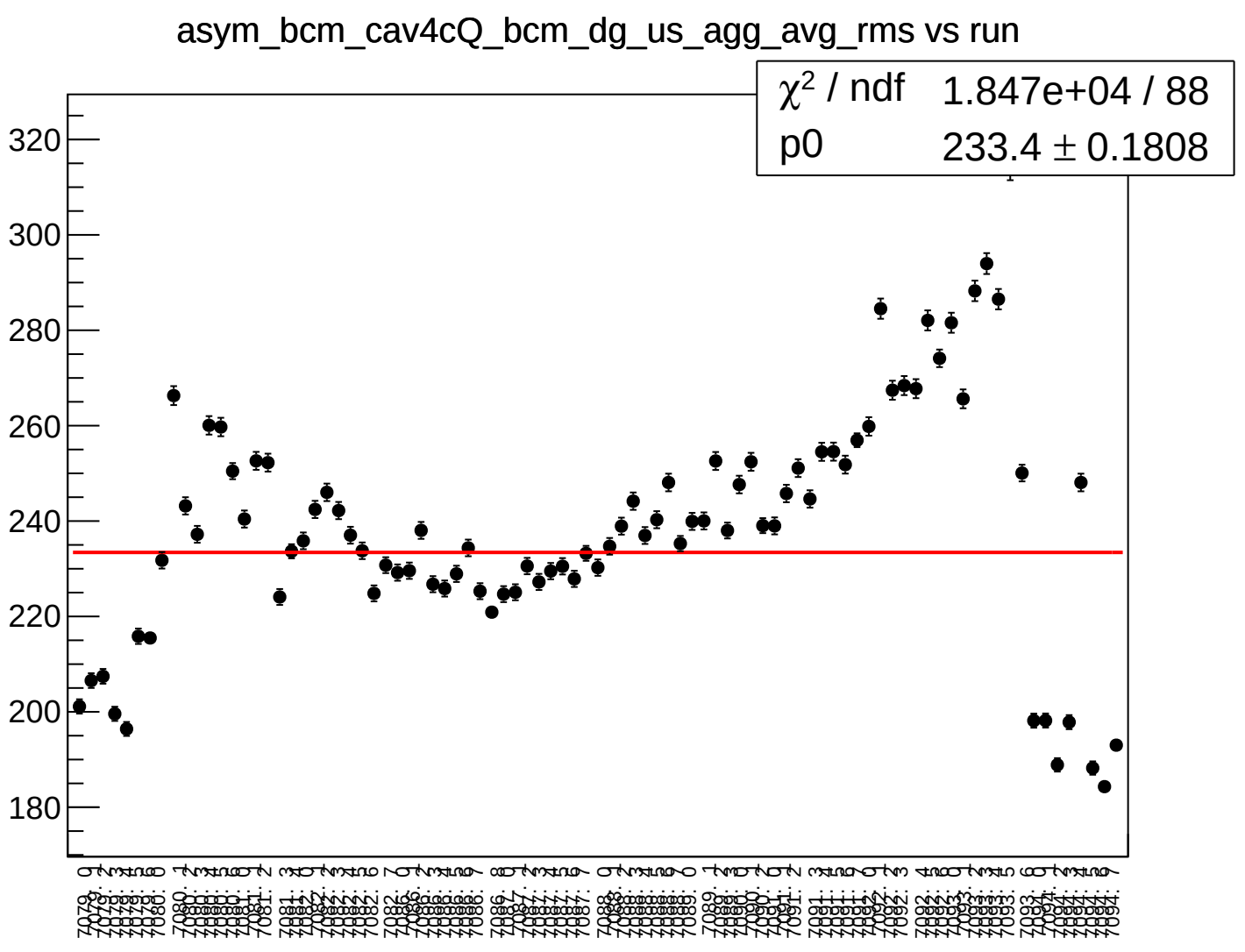

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 82.94 / 88
p0 8.35 ± 29.89
1000
500
0
−500
−1000
pull
Entries 89
Mean −134
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

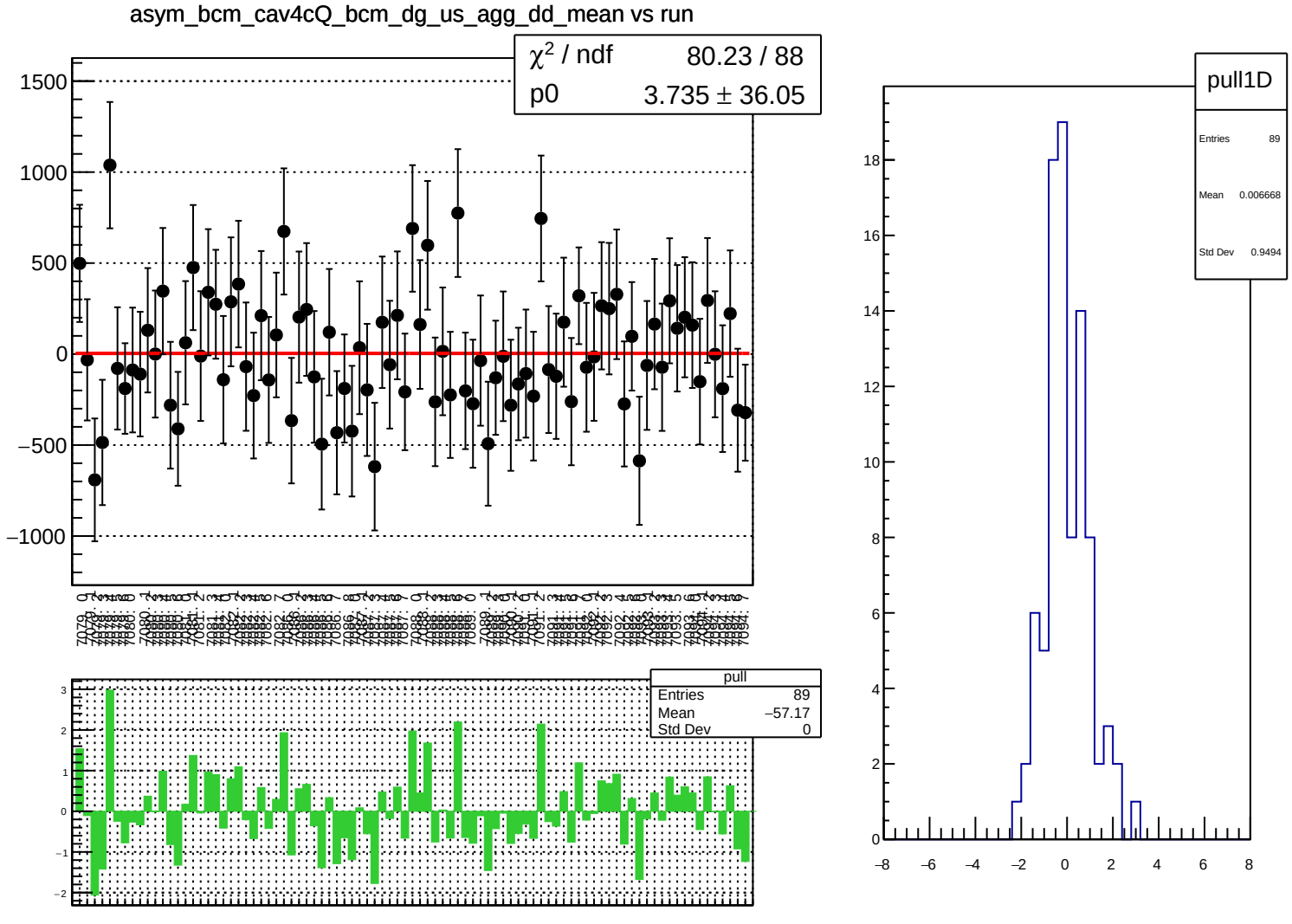

pull1D
Entries 89
Mean 0.01284
Std Dev 0.9653
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

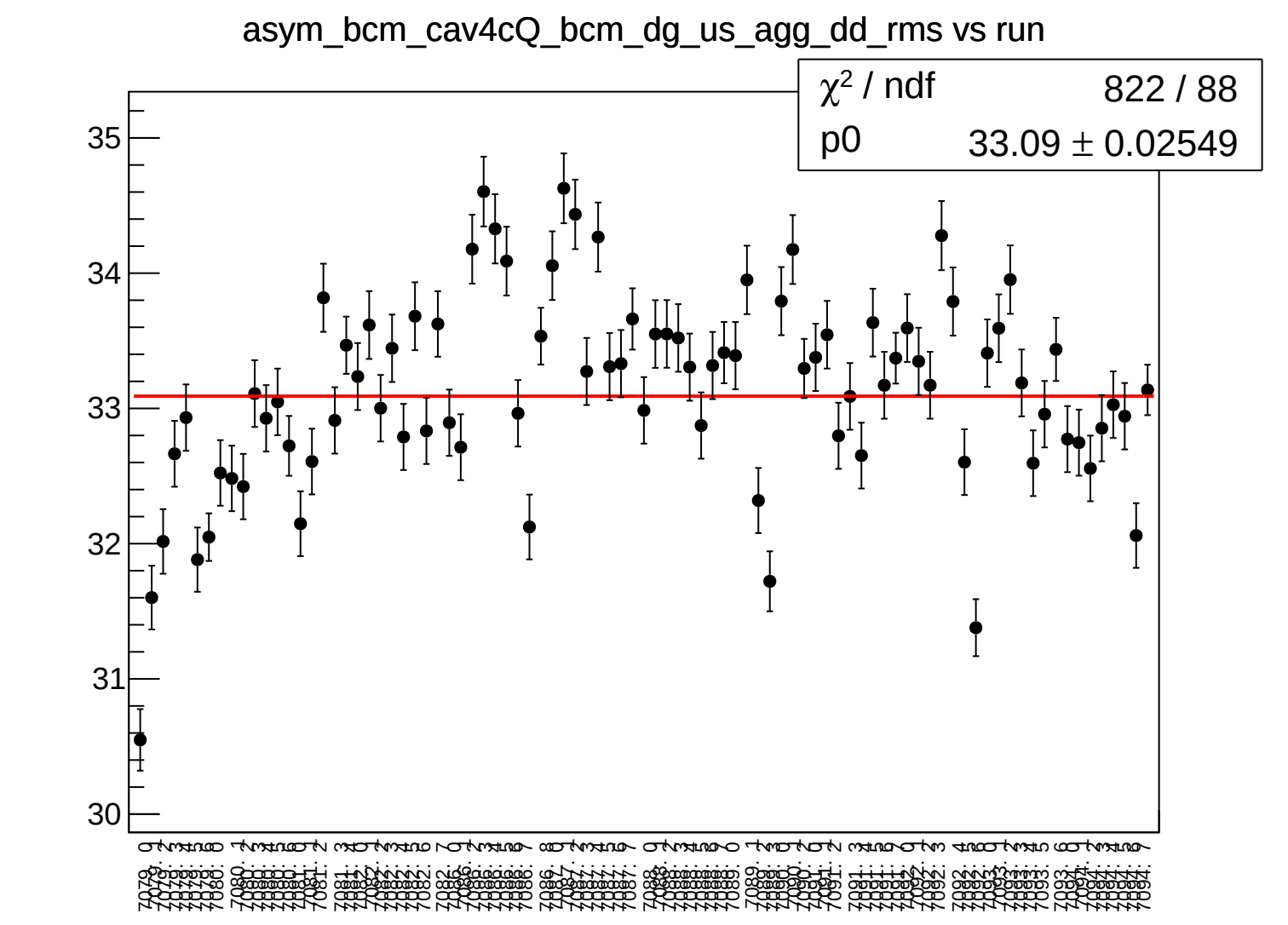

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 856.1 / 88
p0 27.43 ± 0.02113
29
28.5
28
27.5
27
26.5
26
25.5

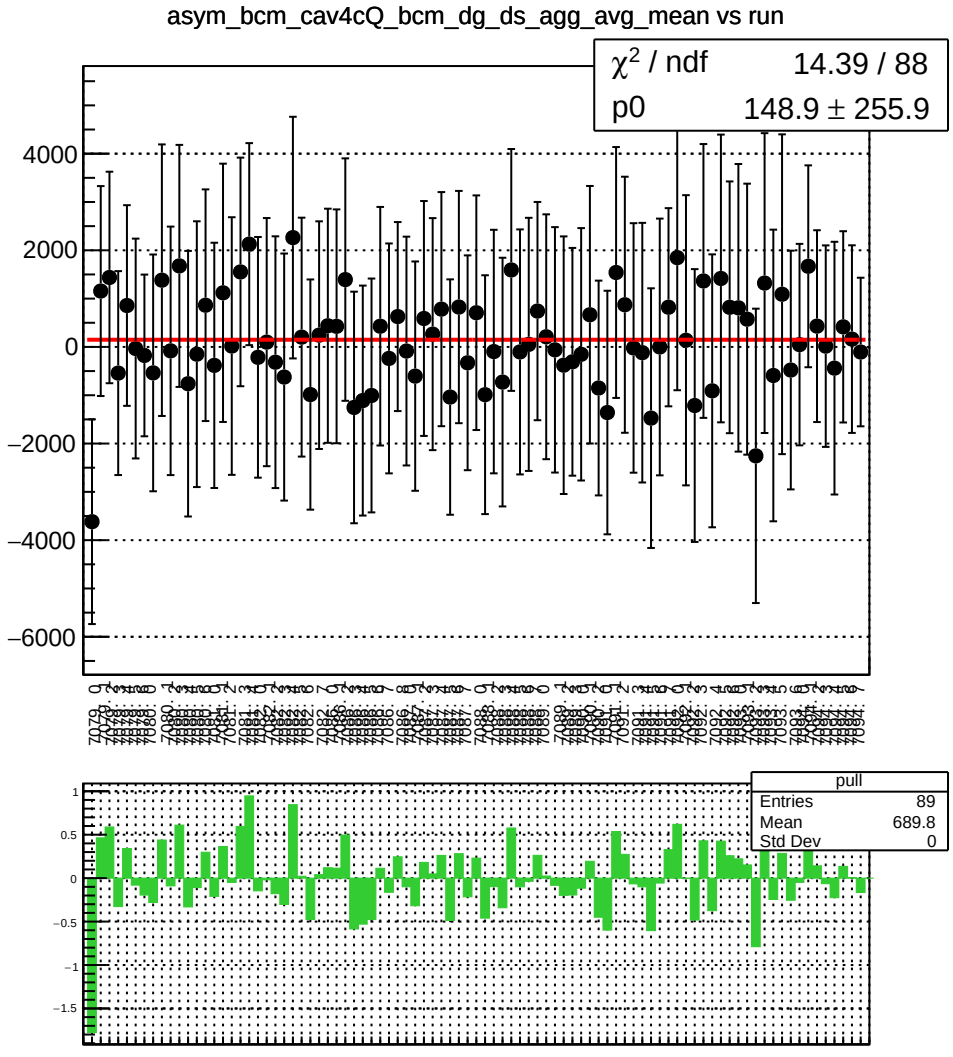

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 14.18 / 88
p0 137.9 ± 255.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 88.62
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

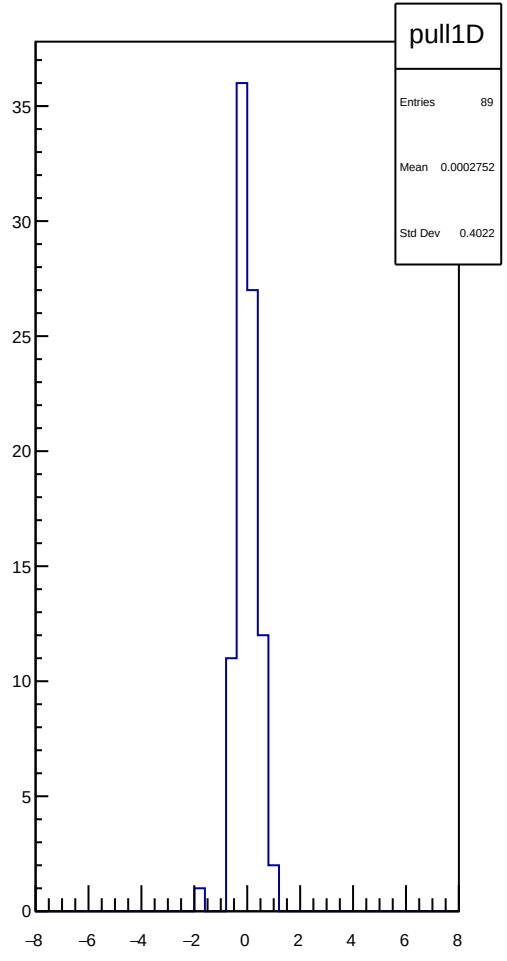

pull1D
Entries 89
Mean 0.001882
Std Dev 0.3992
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

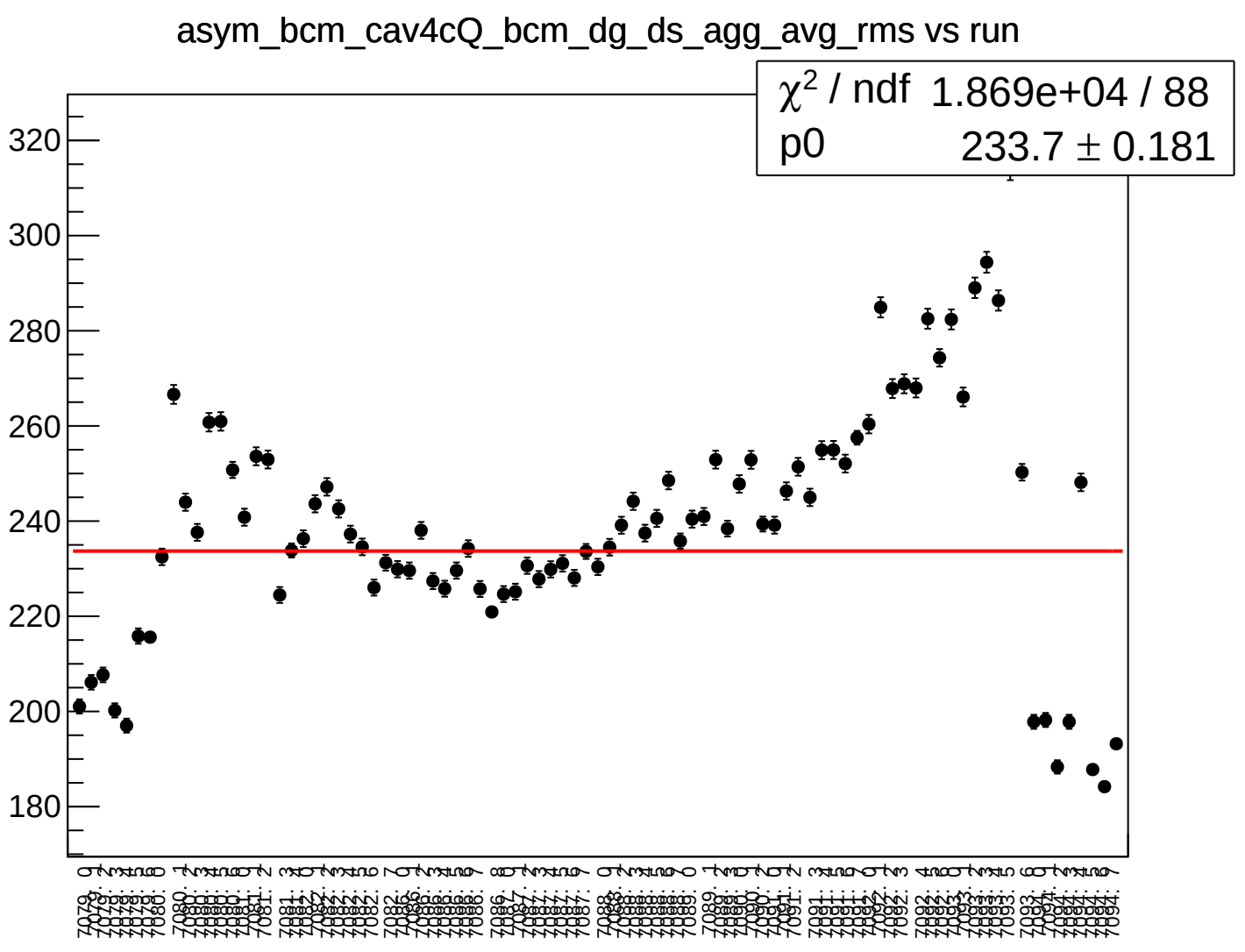

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.847e+04 / 88
p0 233.4 ± 0.1808
320
300
280
260
240
220
200
180

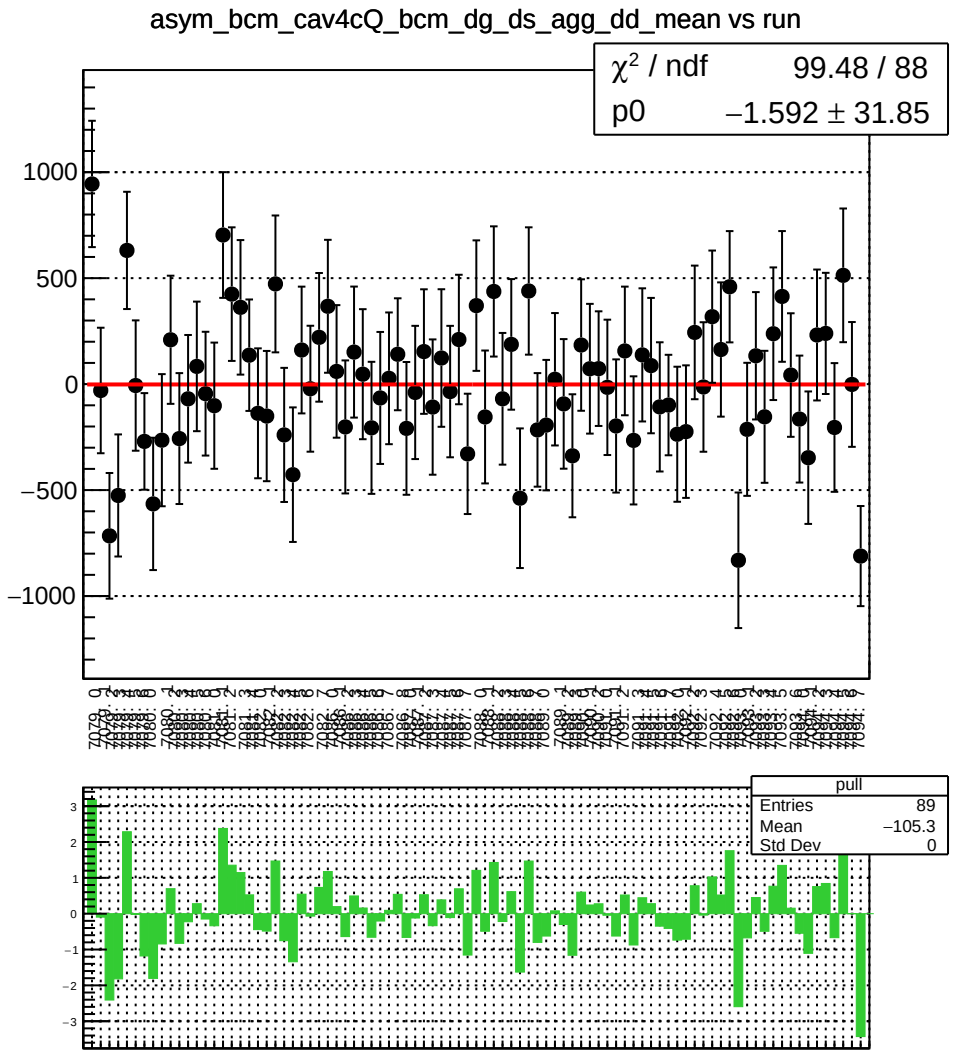

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 80.23 / 88
p0 3.735 ± 36.05
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean −57.17
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.006668
Std Dev 0.9494
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

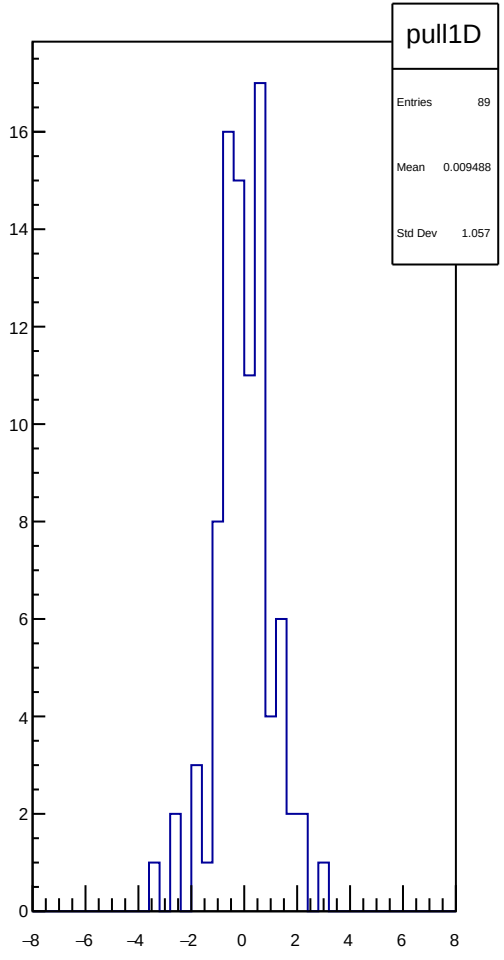

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 822 / 88
p0 33.09 ± 0.02549
35
34
33
32
31
30

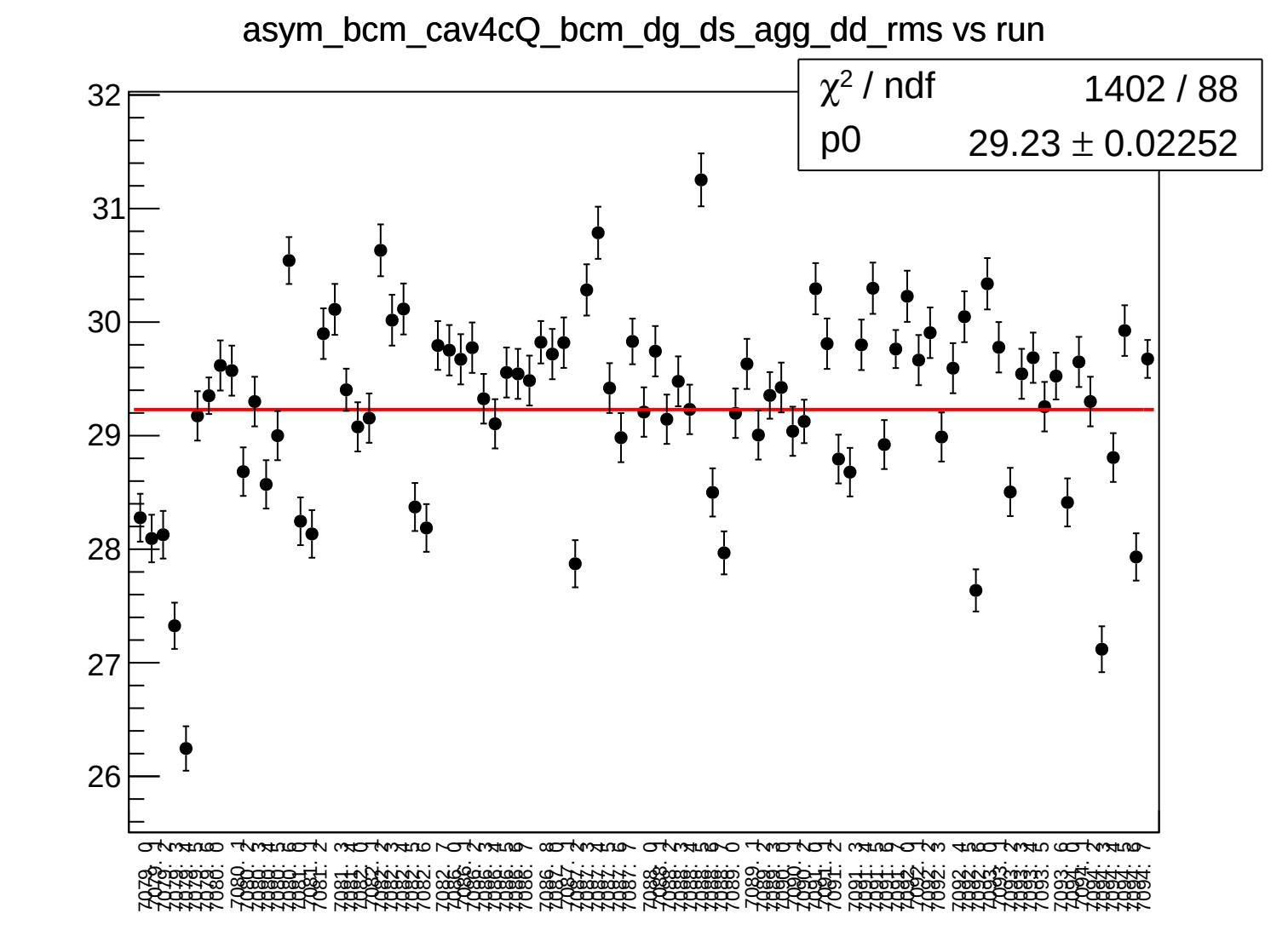

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.39 / 88
p0 148.9 ± 255.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 689.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

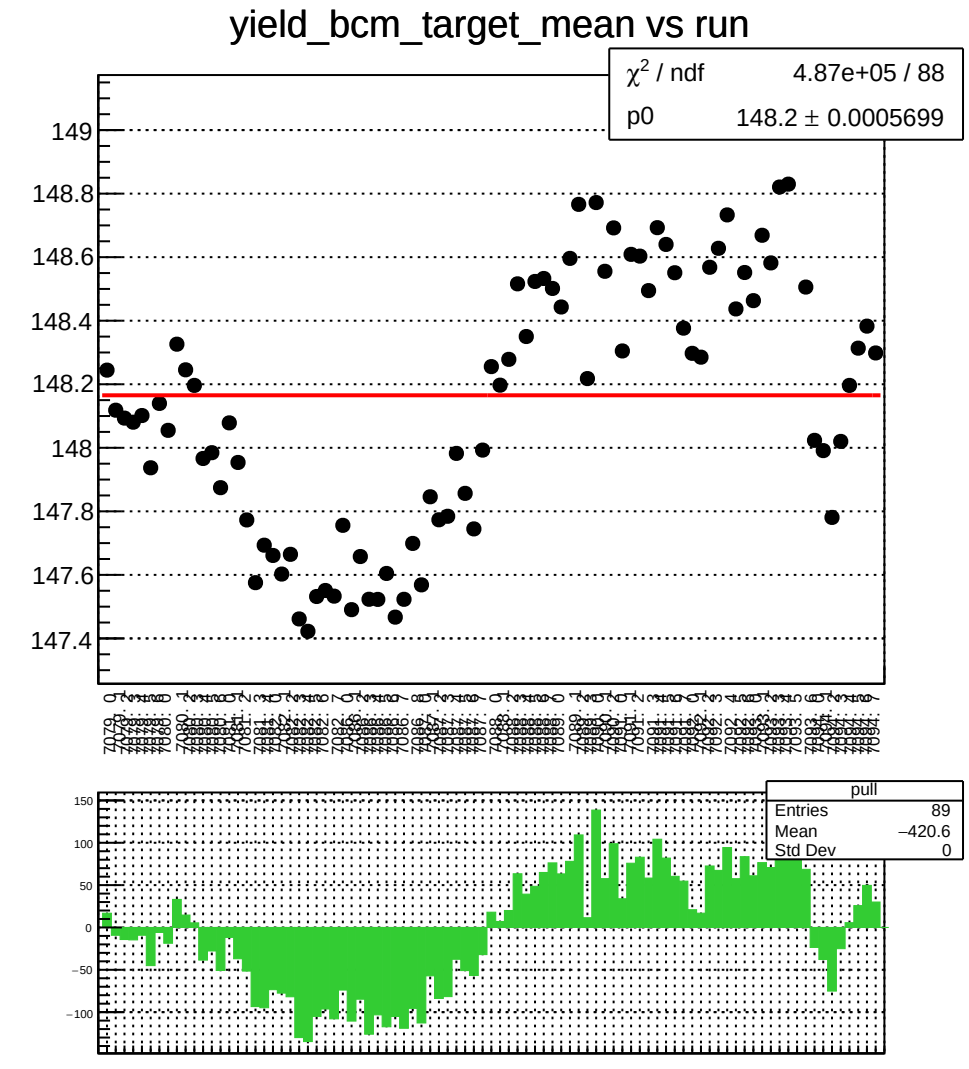

pull1D
Entries 89
Mean 0.0002752
Std Dev 0.4022
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

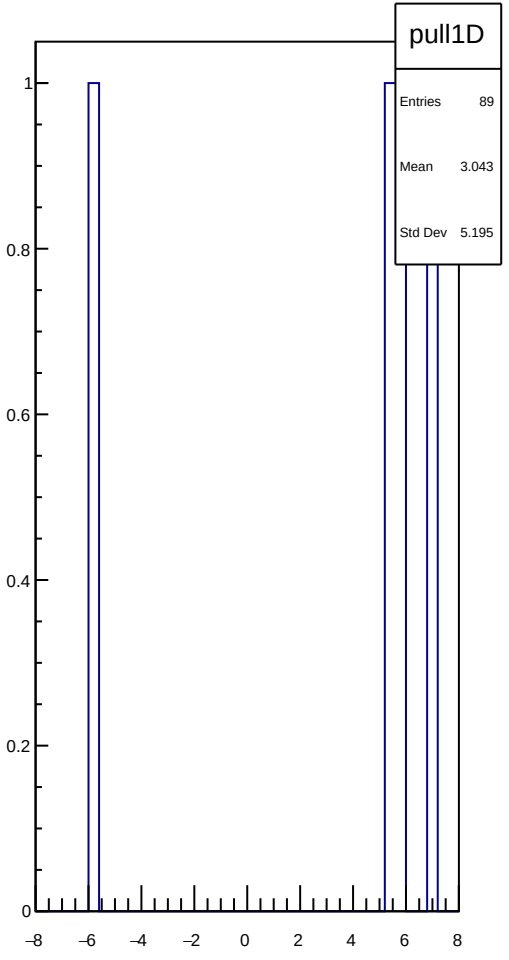

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.869e+04 / 88
p0 233.7 ± 0.181
320
300
280
260
240
220
200
180

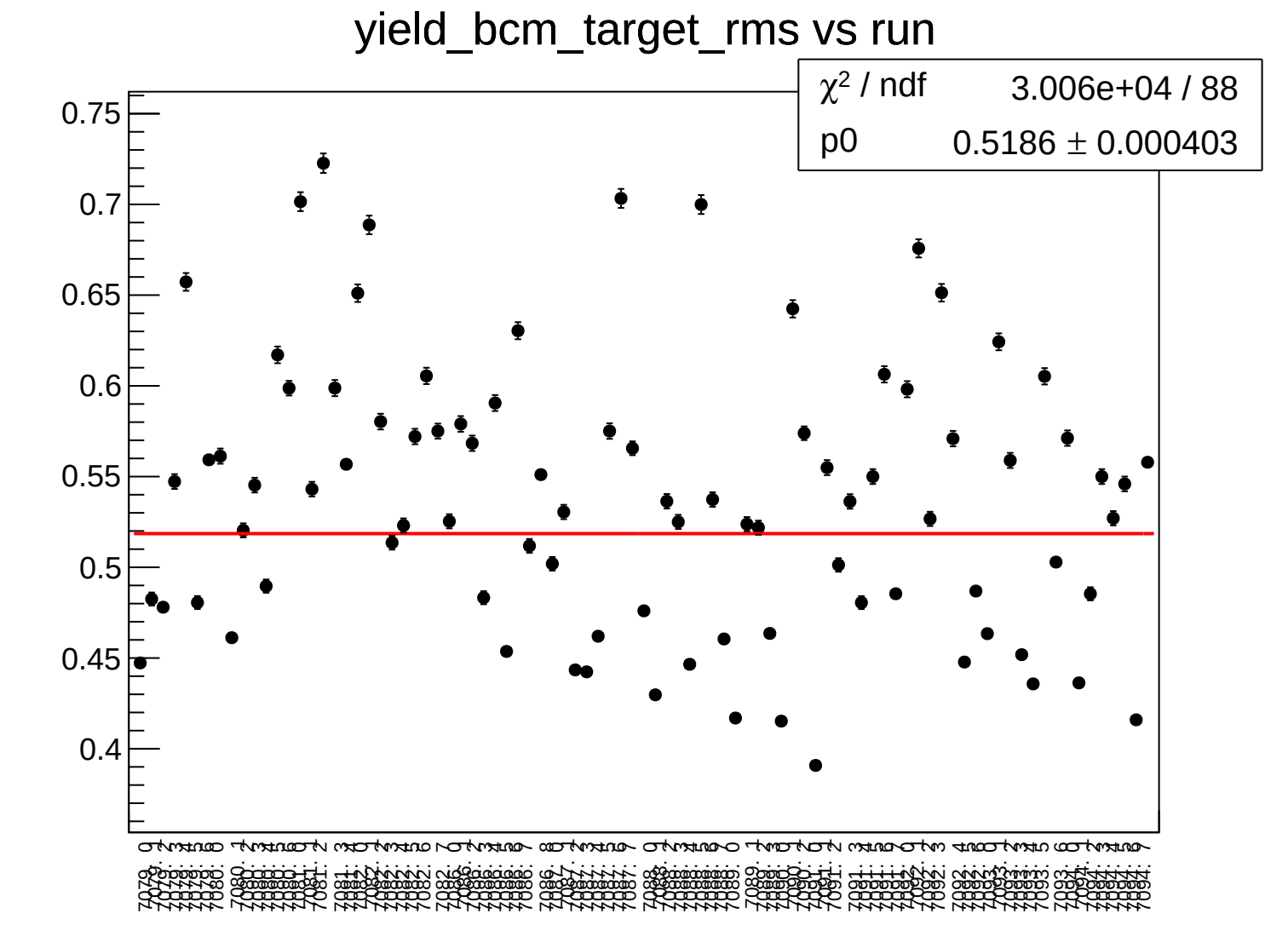

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 99.48 / 88
p0 −1.592 ± 31.85
1000
500
0
−500
−1000
pull
Entries 89
Mean −105.3
Std Dev 0
3
2
1
0
−1
−2
−3

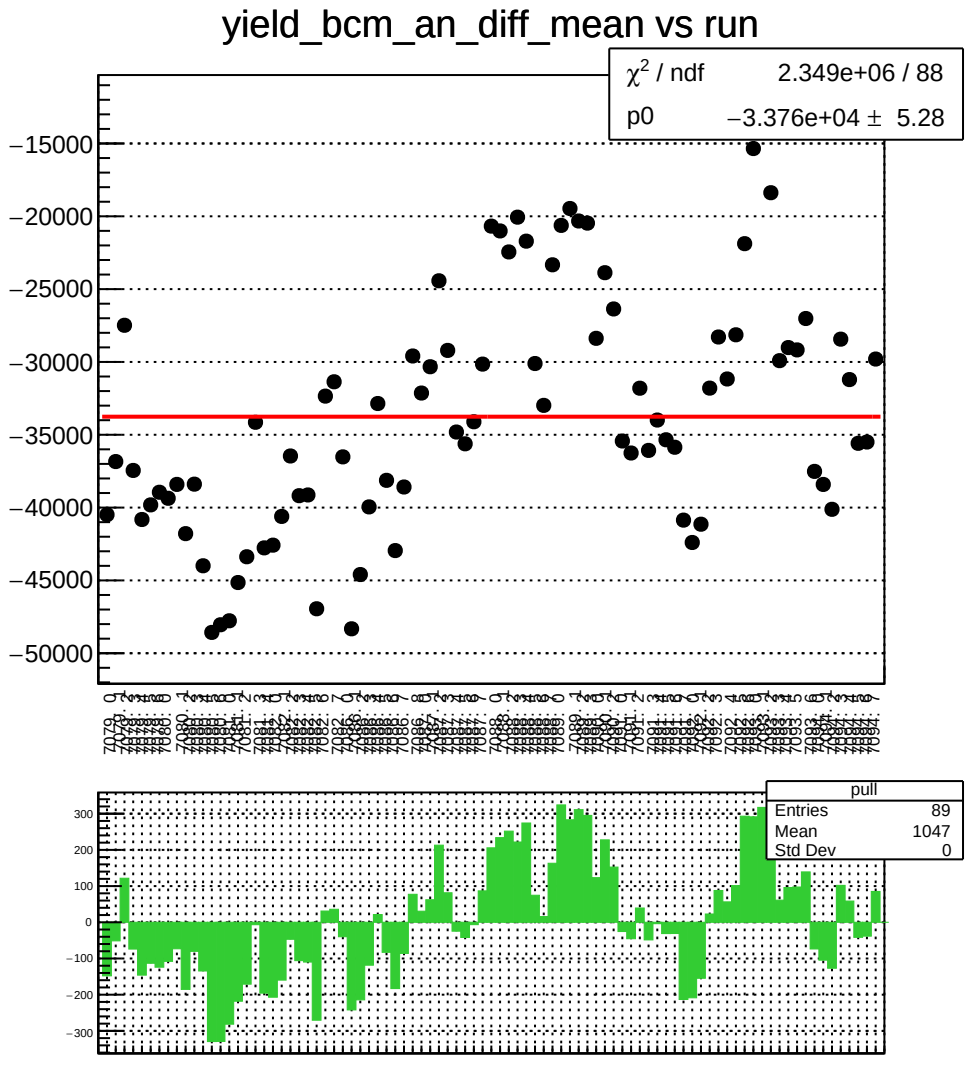

pull1D
Entries 89
Mean 0.009488
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

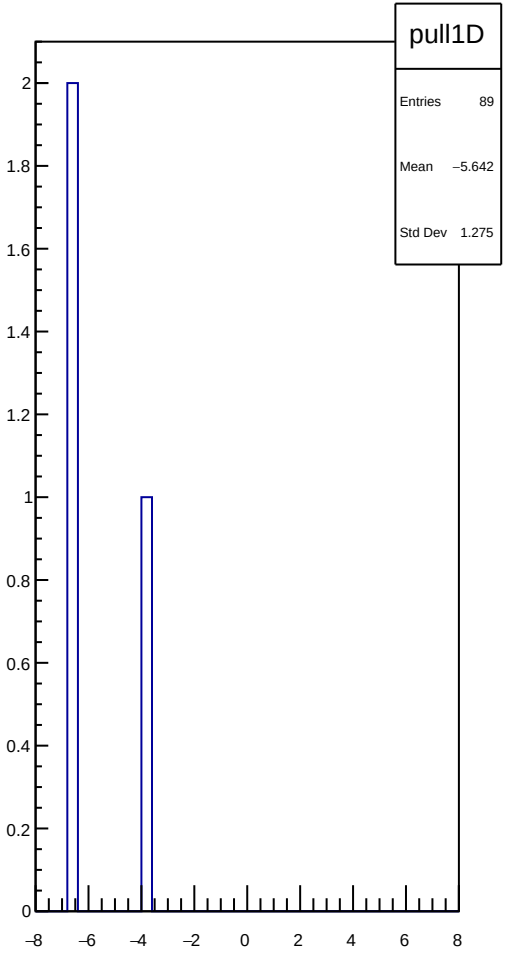

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1402 / 88
p0 29.23 ± 0.02252
32
31
30
29
28
27
26

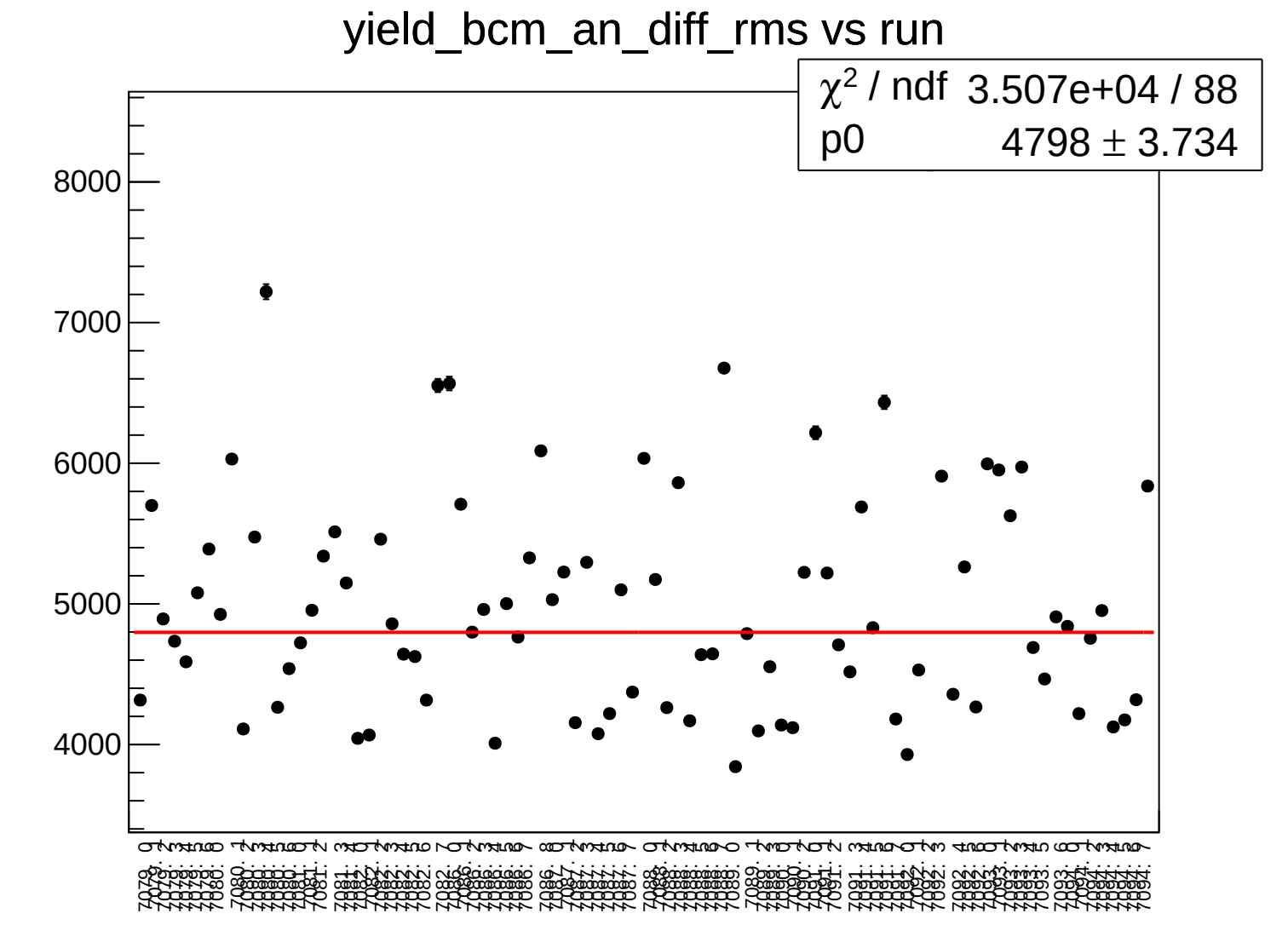

yield_bcm_target_mean vs run
χ² / ndf 4.87e+05 / 88
p0 148.2 ± 0.0005699
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 89
Mean −420.6
Std Dev 0
150
100
50
0
−50
−100

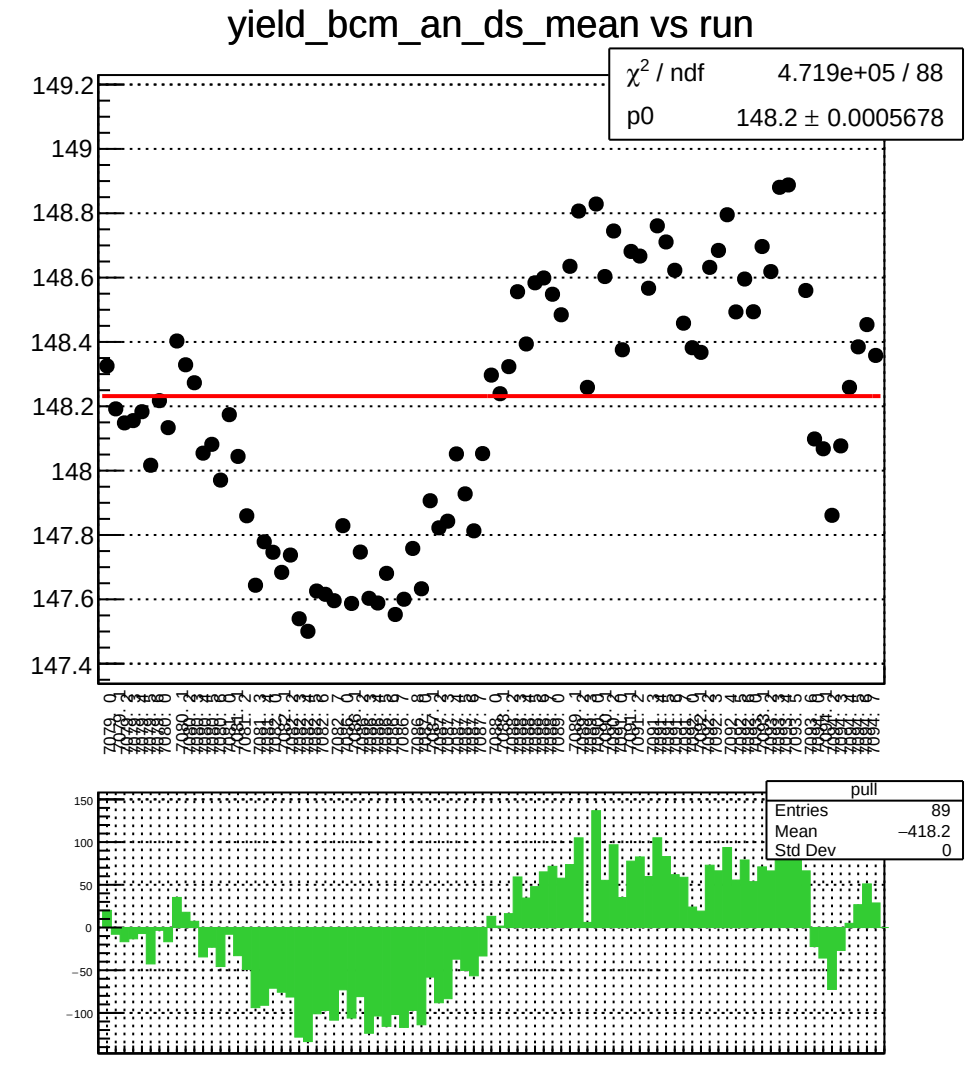

pull1D
Entries 89
Mean 3.043
Std Dev 5.195
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

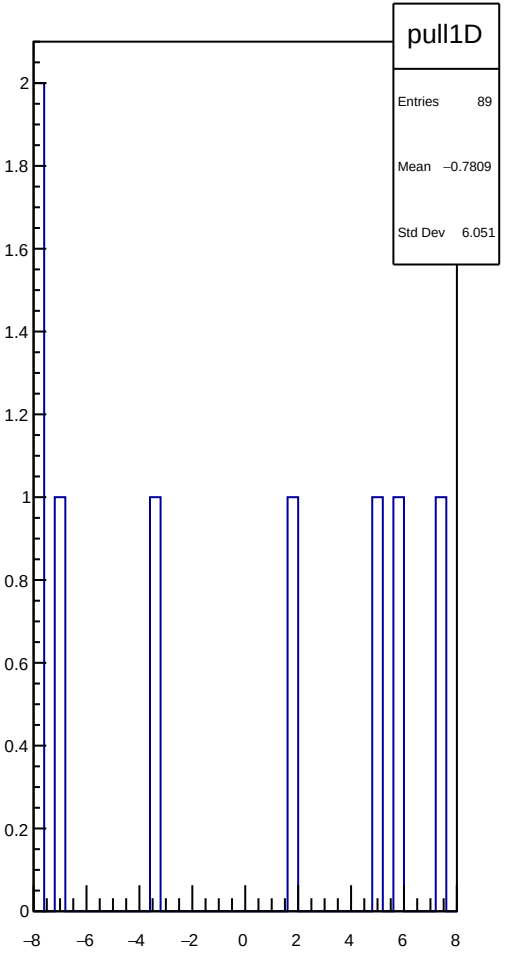

yield_bcm_target_rms vs run
χ² / ndf 3.006e+04 / 88
p0 0.5186 ± 0.000403
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

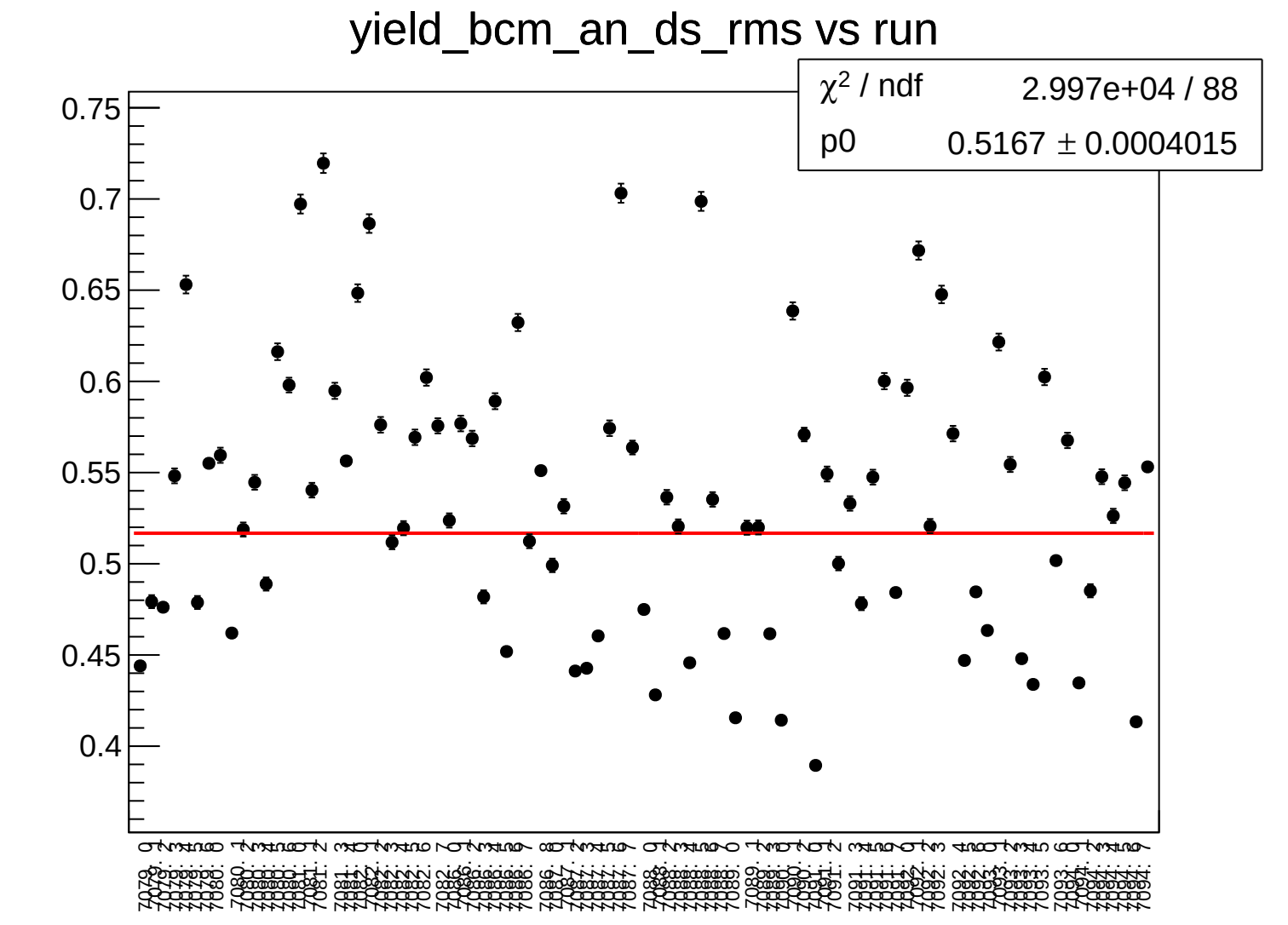

yield_bcm_an_diff_mean vs run
χ² / ndf 2.349e+06 / 88
p0 −3.376e+04 ± 5.28
−15000
−20000
−25000
−30000
−35000
−40000
−45000
−50000
pull
Entries 89
Mean 1047
Std Dev 0
300
200
100
0
−100
−200
−300

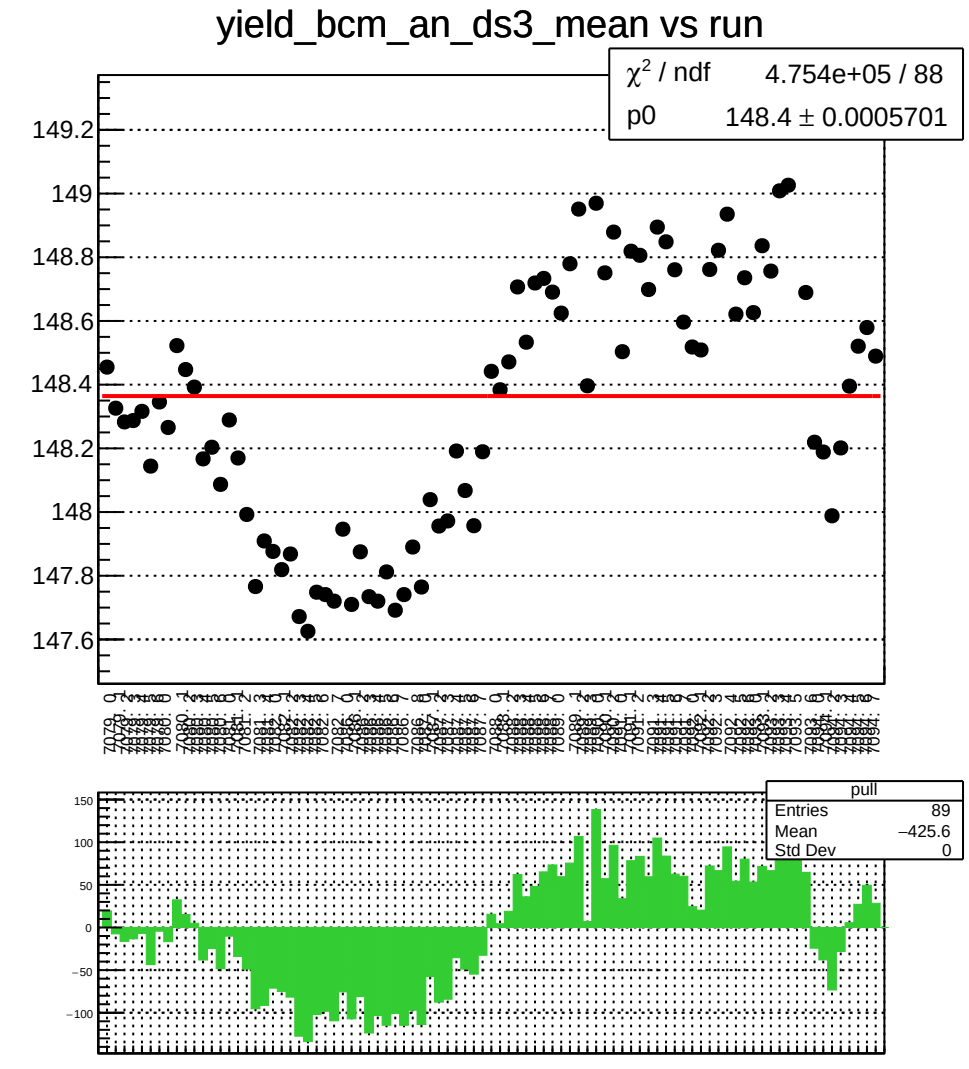

pull1D
Entries 89
Mean −5.642
Std Dev 1.275
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

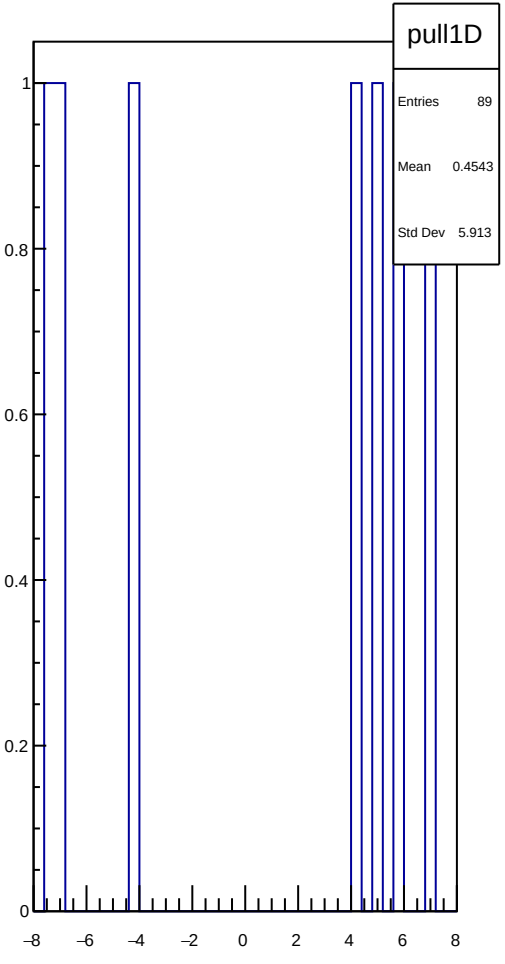

yield_bcm_an_diff_rms vs run
χ² / ndf 3.507e+04 / 88
p0 4798 ± 3.734
8000
7000
6000
5000
4000

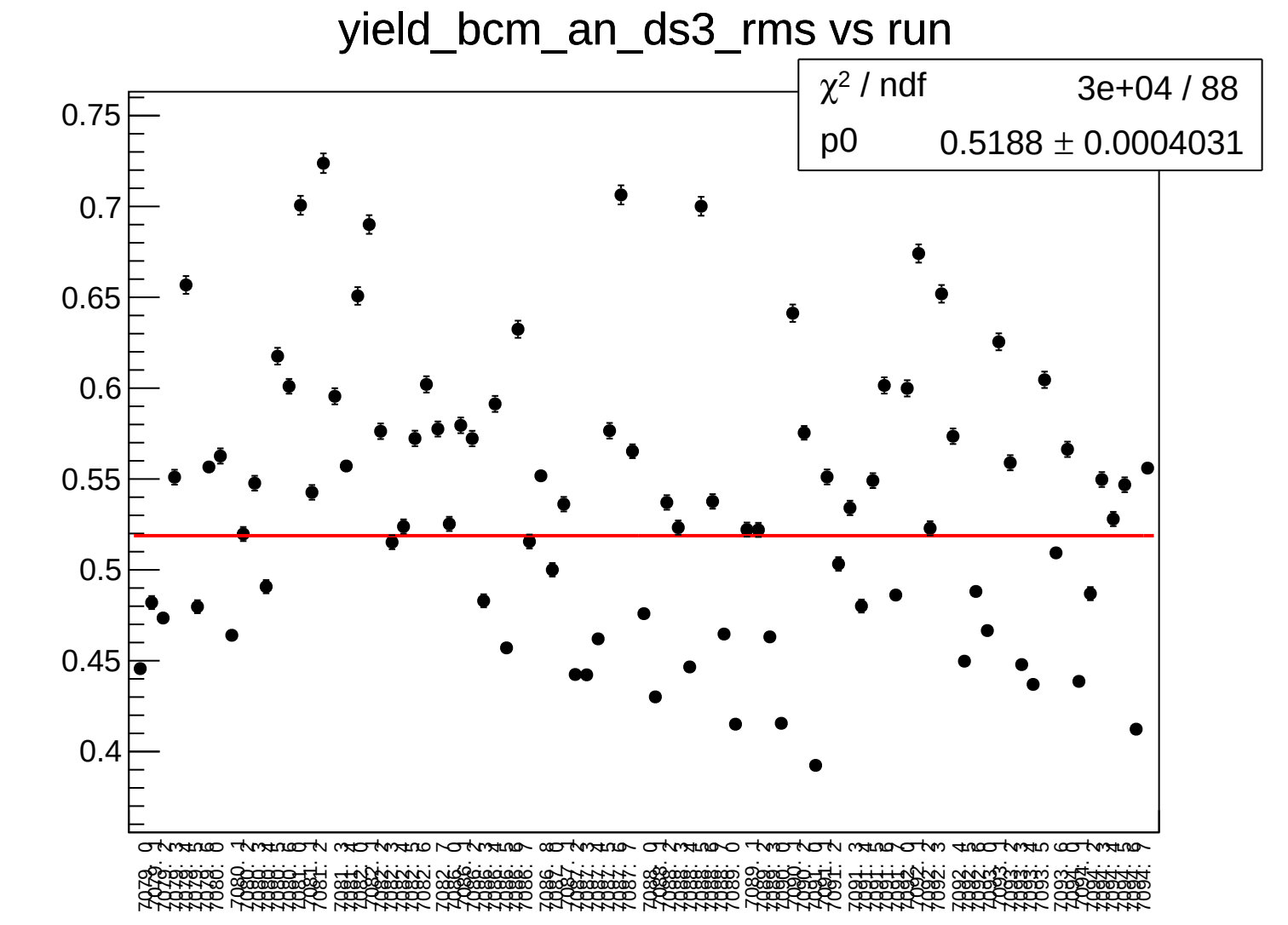

yield_bcm_an_ds_mean vs run
χ² / ndf 4.719e+05 / 88
p0 148.2 ± 0.0005678
149.2
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 89
Mean −418.2
Std Dev 0
150
100
50
0
−50
−100

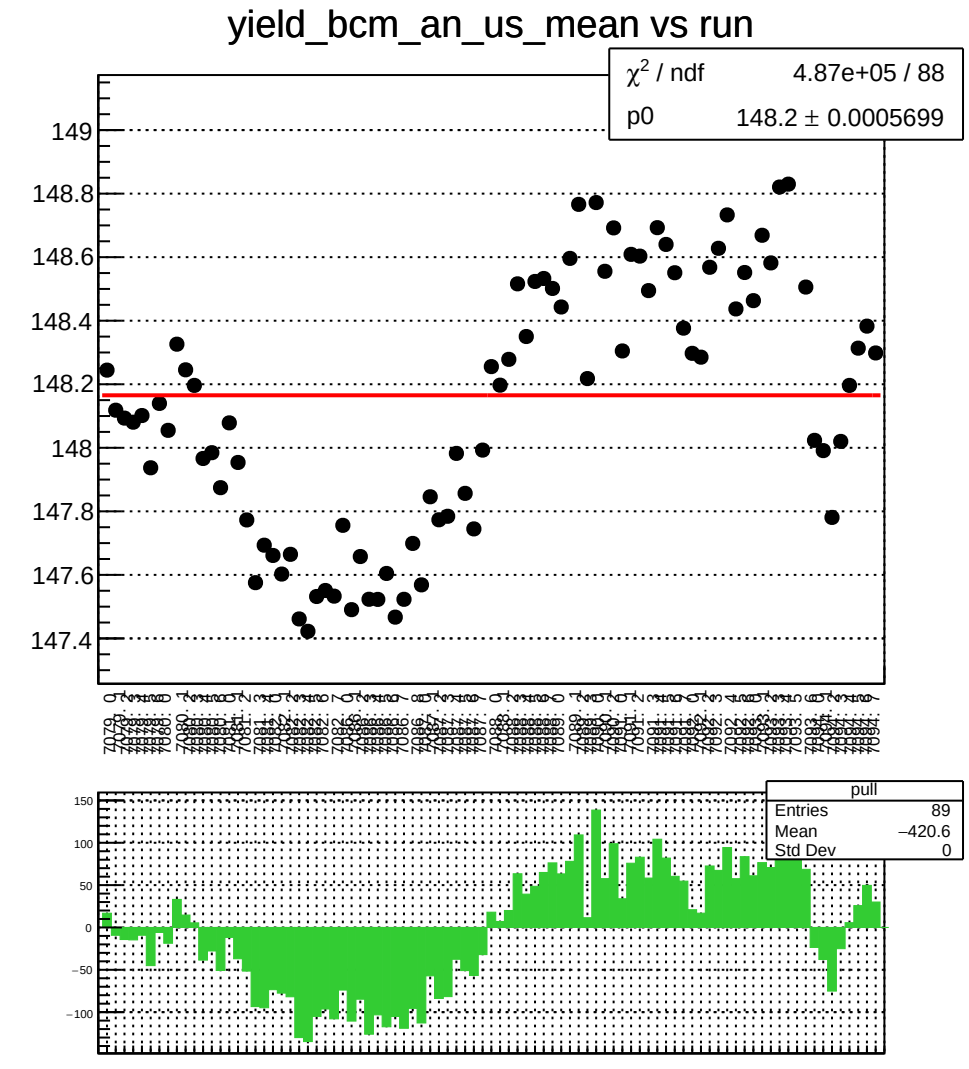

pull1D
Entries 89
Mean −0.7809
Std Dev 6.051
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

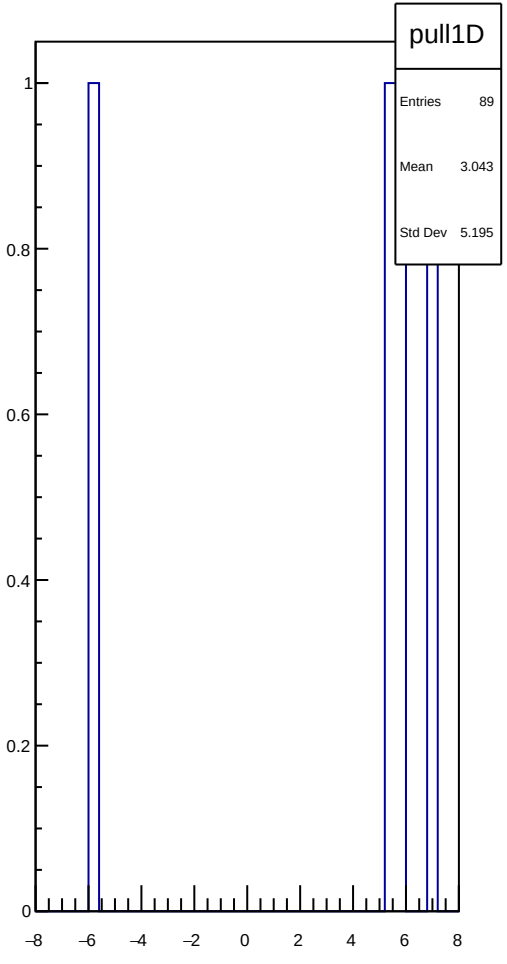

yield_bcm_an_ds_rms vs run
χ² / ndf 2.997e+04 / 88
p0 0.5167 ± 0.0004015
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

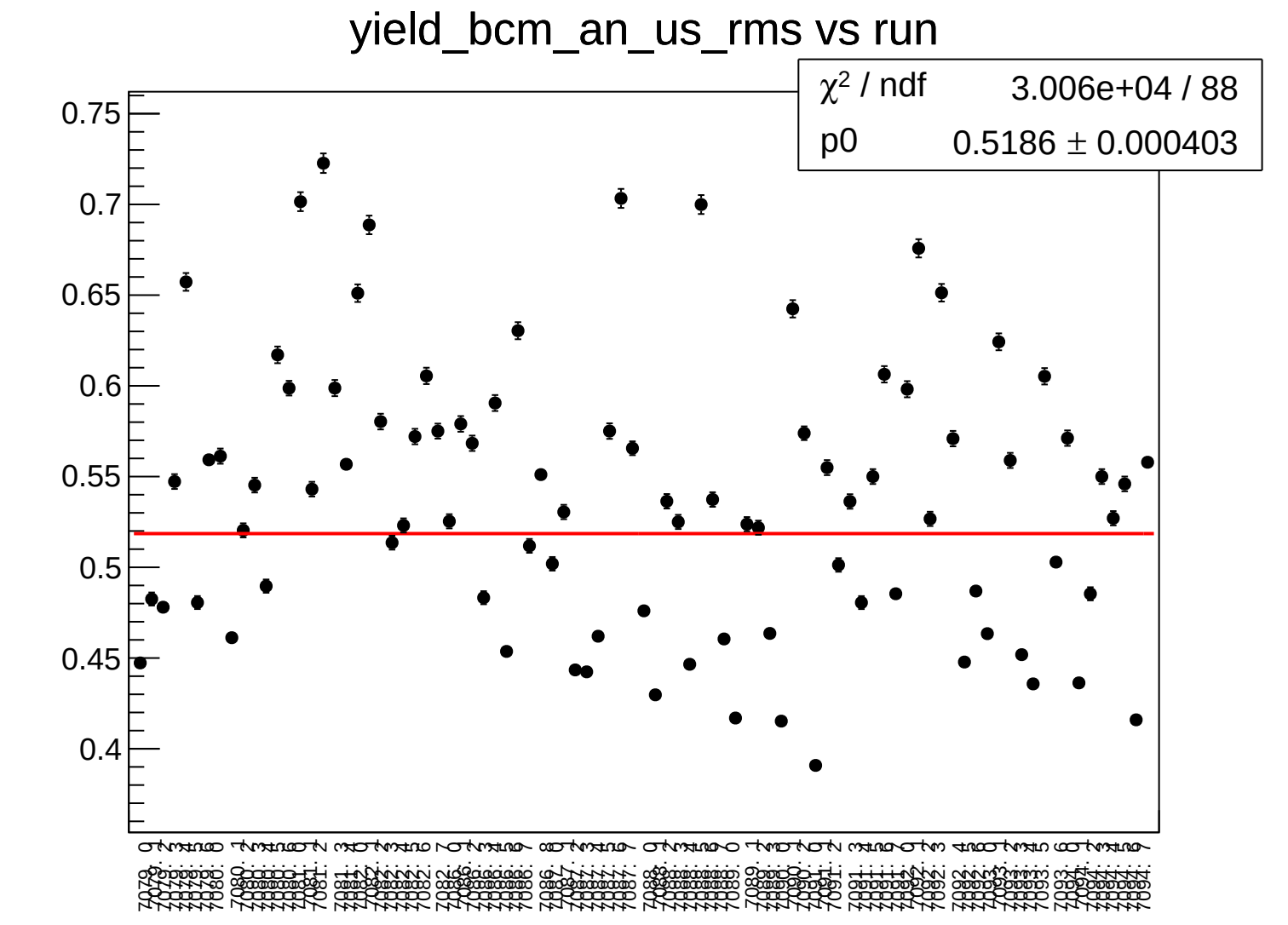

yield_bcm_an_ds3_mean vs run
χ² / ndf 4.754e+05 / 88
p0 148.4 ± 0.0005701
149.2
149
148.8
148.6
148.4
148.2
148
147.8
147.6
pull
Entries 89
Mean −425.6
Std Dev 0
150
100
50
0
−50
−100

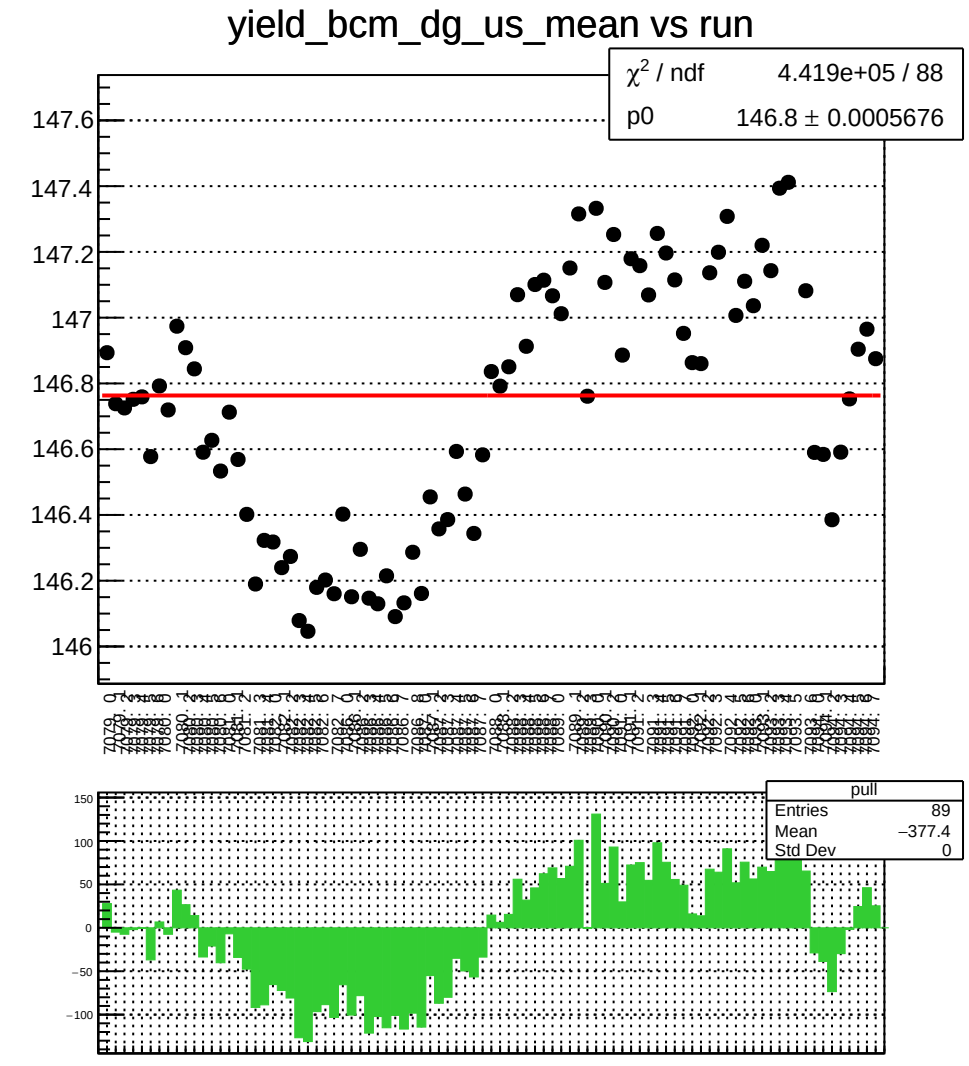

pull1D
Entries 89
Mean 0.4543
Std Dev 5.913
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

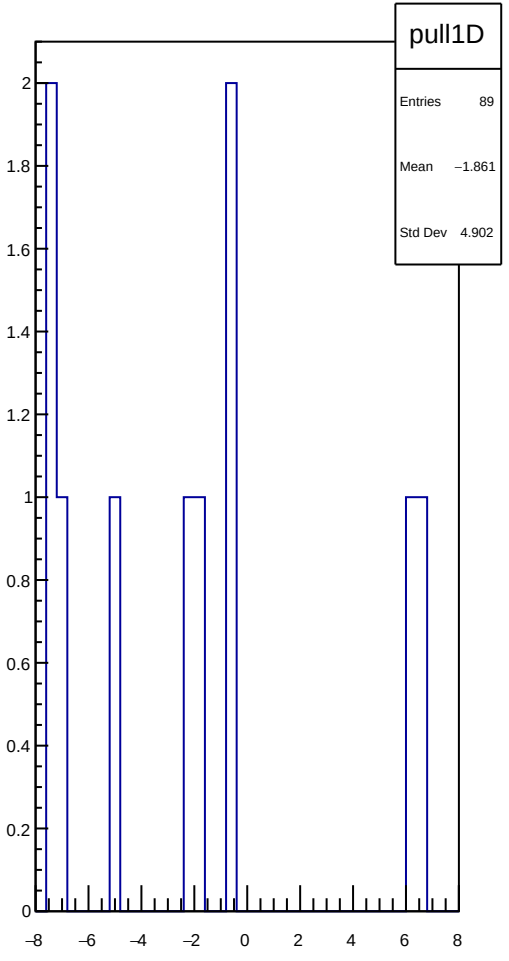

yield_bcm_an_ds3_rms vs run
χ² / ndf 3e+04 / 88
p0 0.5188 ± 0.0004031
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

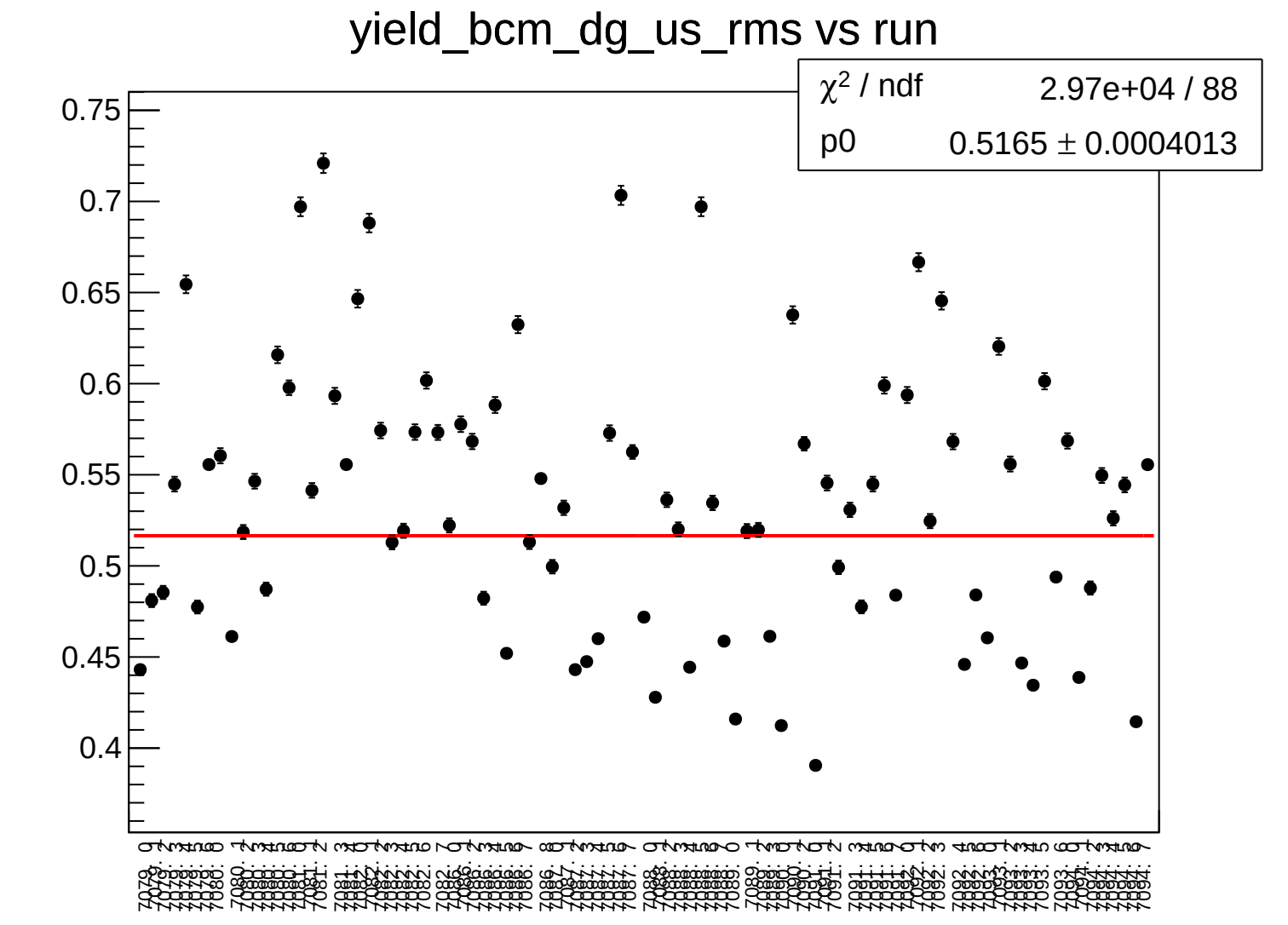

yield_bcm_an_us_mean vs run
χ² / ndf 4.87e+05 / 88
p0 148.2 ± 0.0005699
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 89
Mean −420.6
Std Dev 0
150
100
50
0
−50
−100

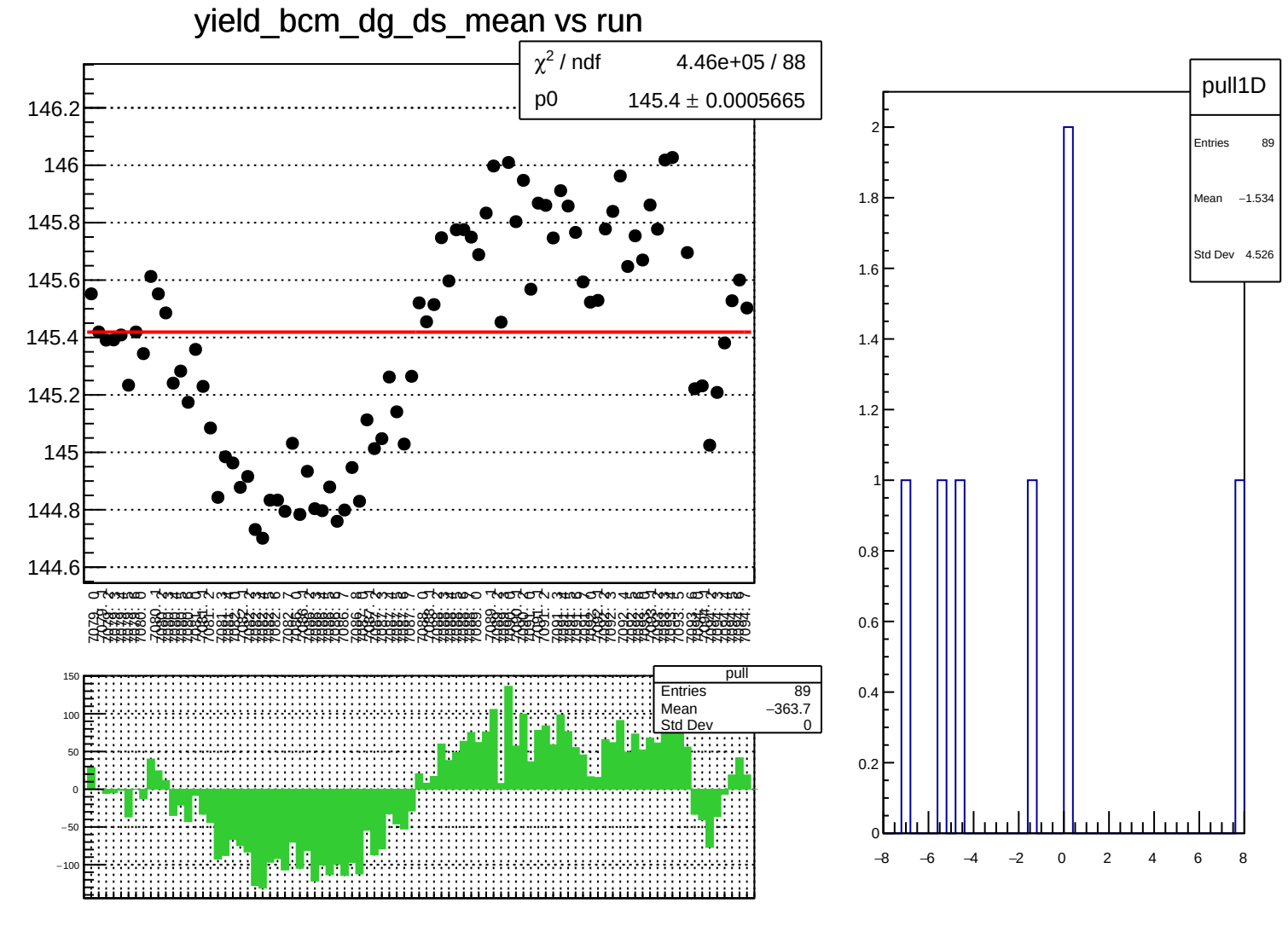

pull1D
Entries 89
Mean 3.043
Std Dev 5.195
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

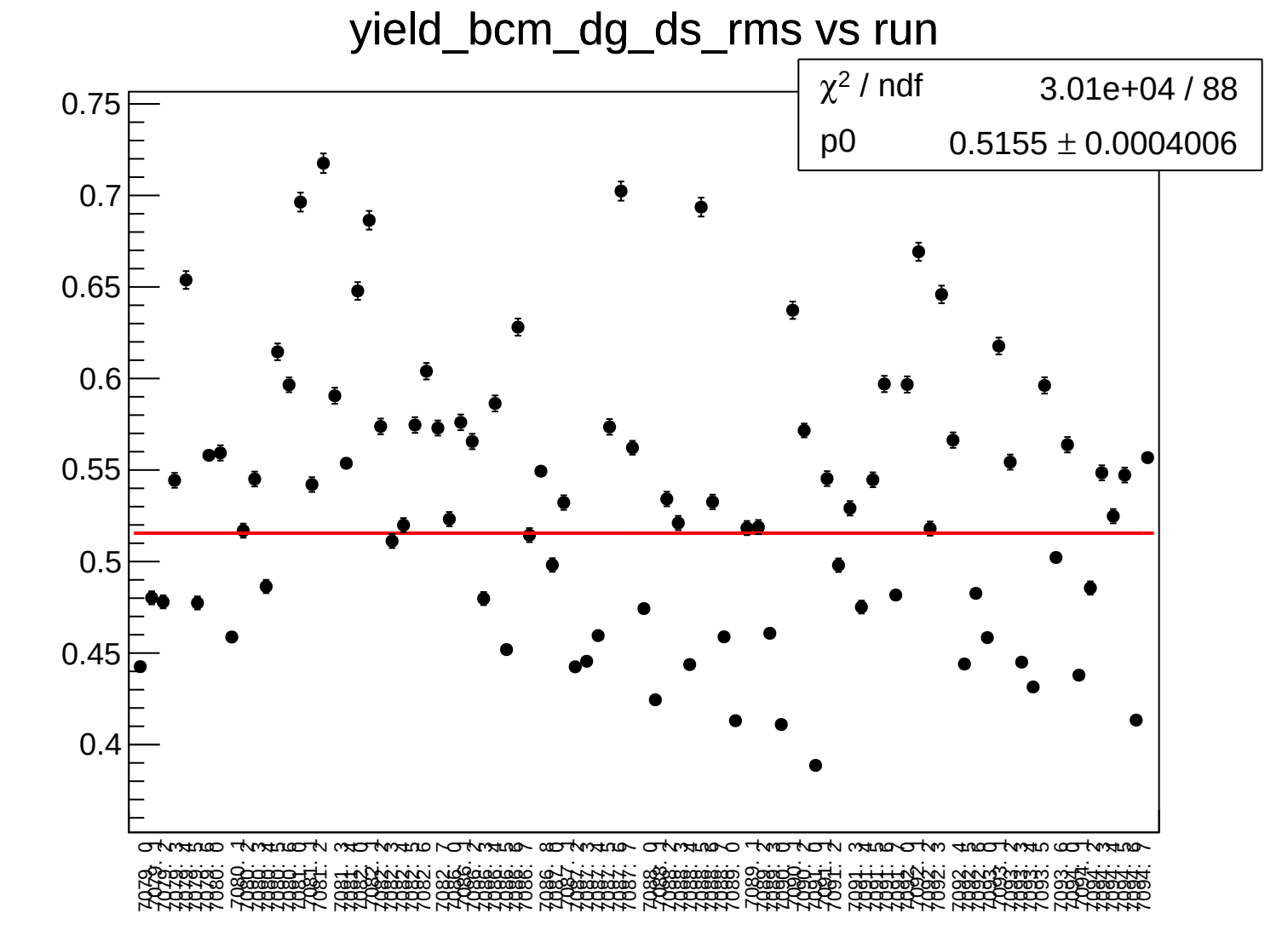

yield_bcm_an_us_rms vs run
χ² / ndf 3.006e+04 / 88
p0 0.5186 ± 0.000403
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

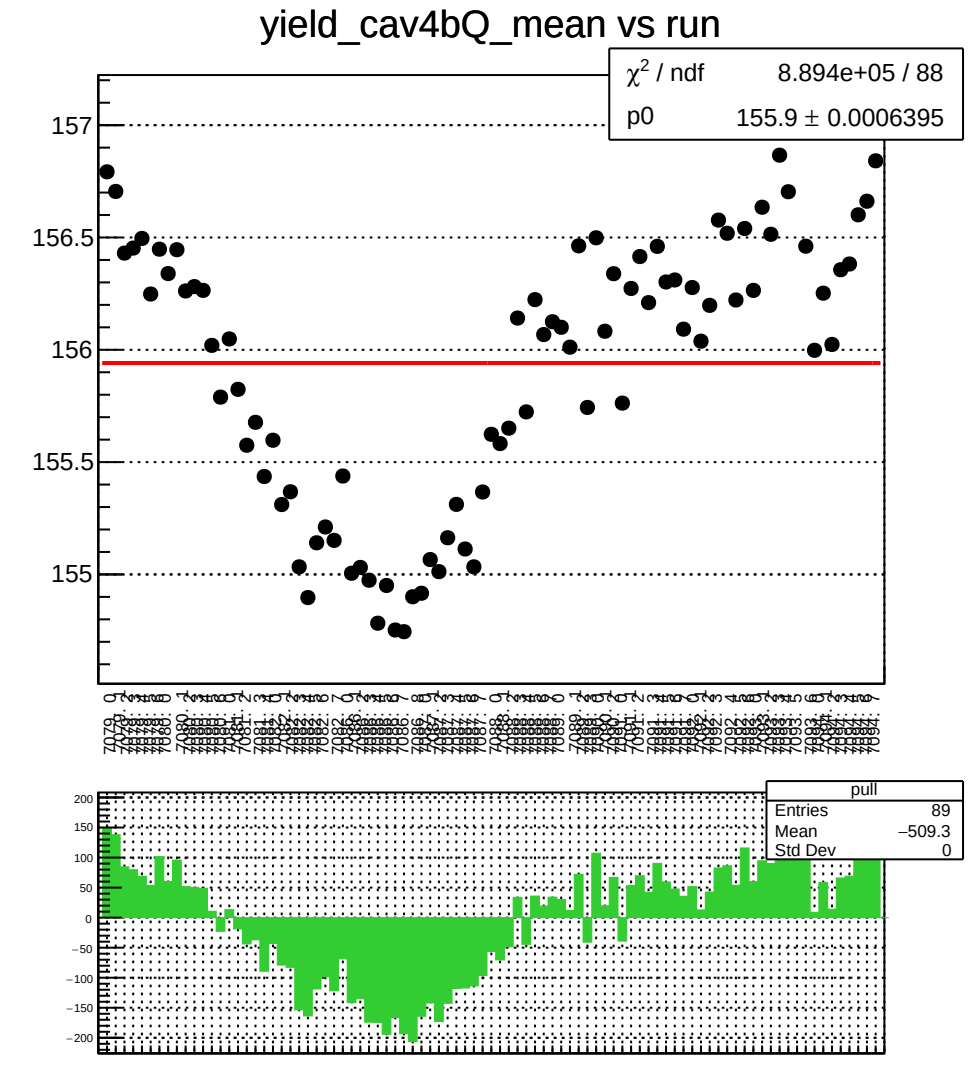

yield_bcm_dg_us_mean vs run
χ² / ndf 4.419e+05 / 88
p0 146.8 ± 0.0005676
147.6
147.4
147.2
147
146.8
146.6
146.4
146.2
146
pull
Entries 89
Mean −377.4
Std Dev 0
150
100
50
0
−50
−100

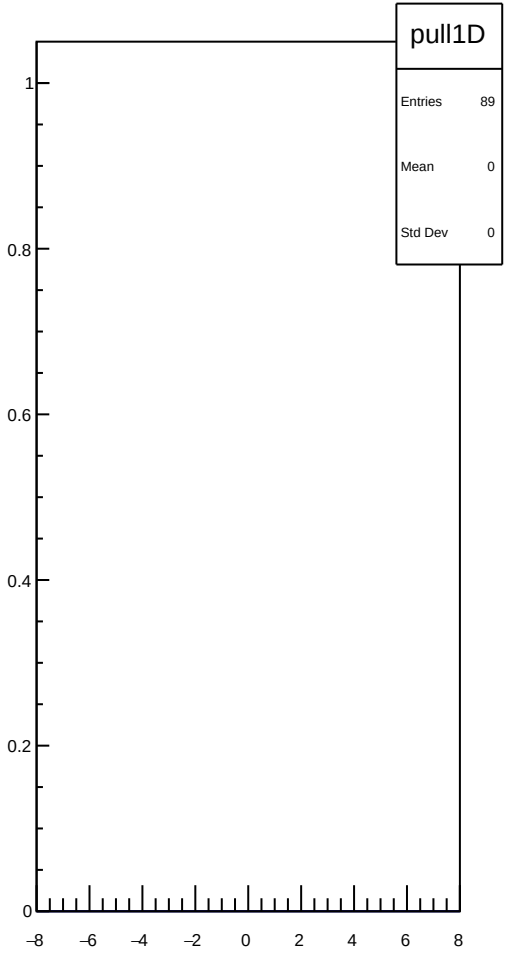

pull1D
Entries 89
Mean −1.861
Std Dev 4.902
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

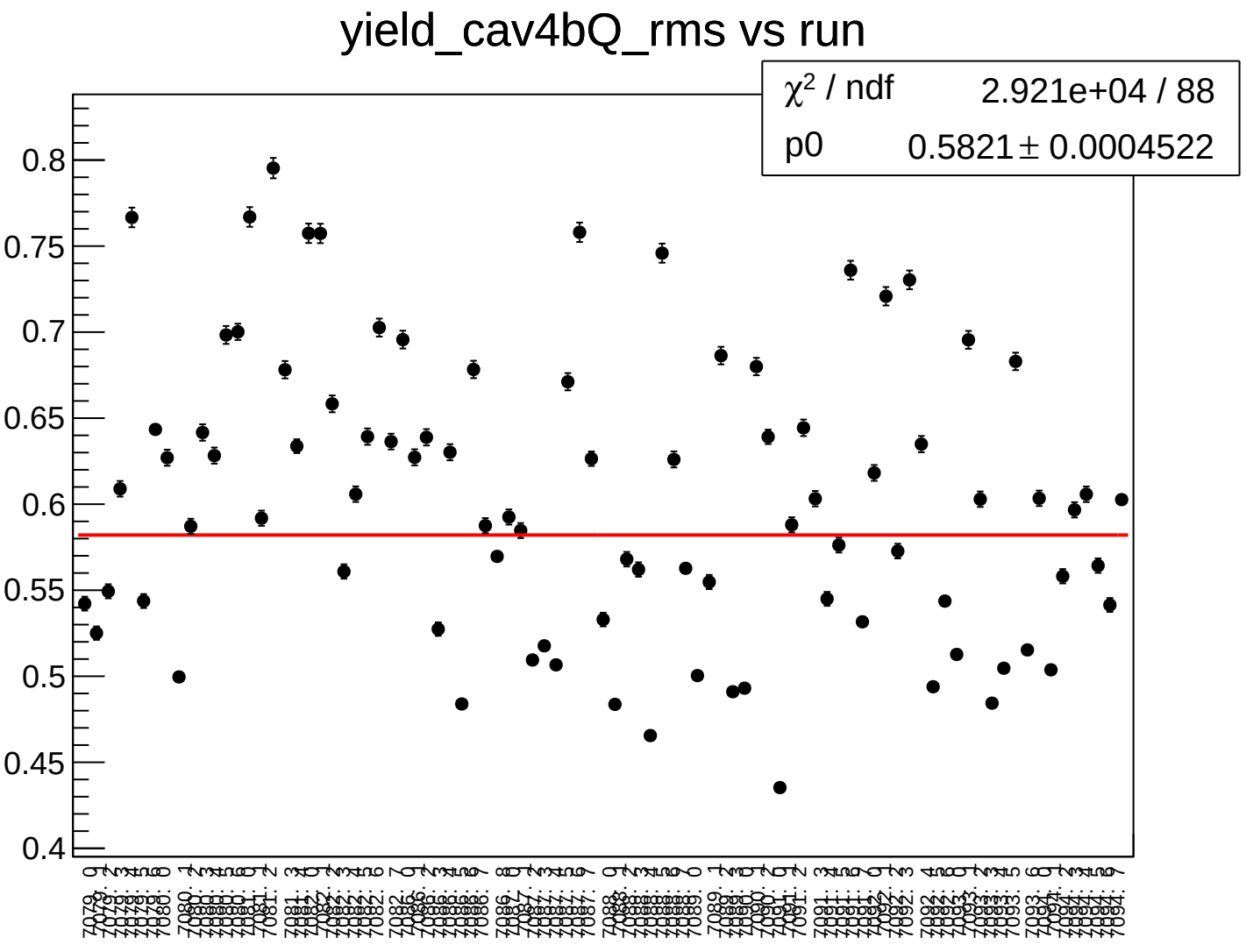

yield_bcm_dg_us_rms vs run
χ² / ndf 2.97e+04 / 88
p0 0.5165 ± 0.0004013
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

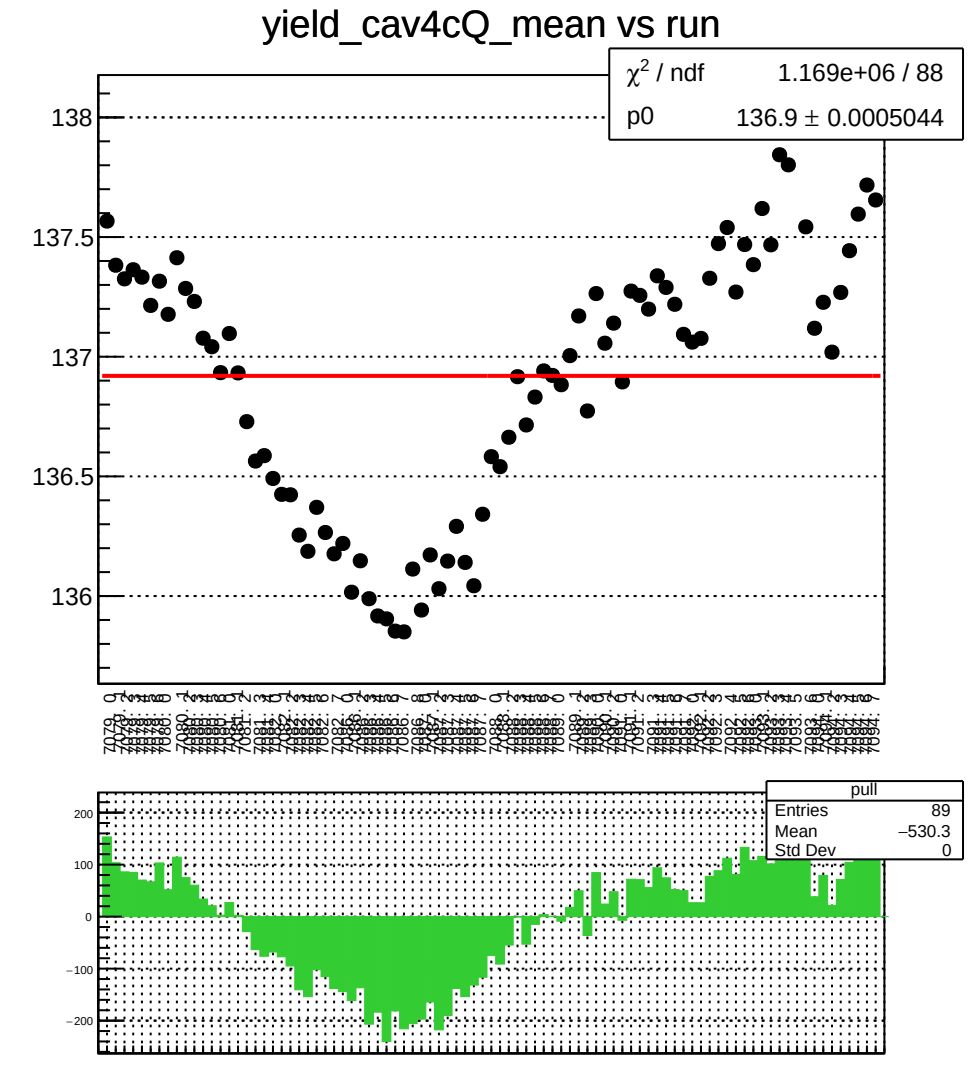

yield_bcm_dg_ds_mean vs run
χ² / ndf 4.46e+05 / 88
p0 145.4 ± 0.0005665
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
pull
Entries 89
Mean −363.7
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 89
Mean −1.534
Std Dev 4.526
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

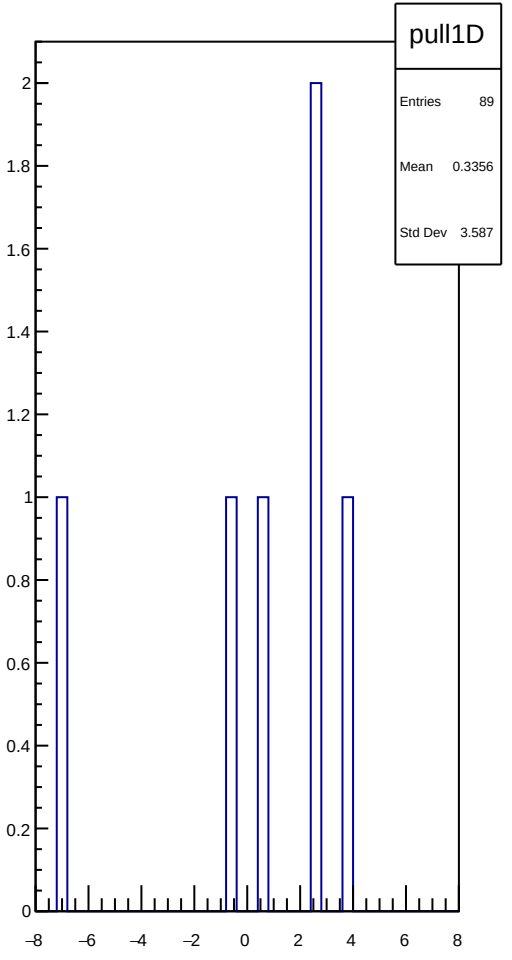

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.01e+04 / 88
p0 0.5155 ± 0.0004006
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

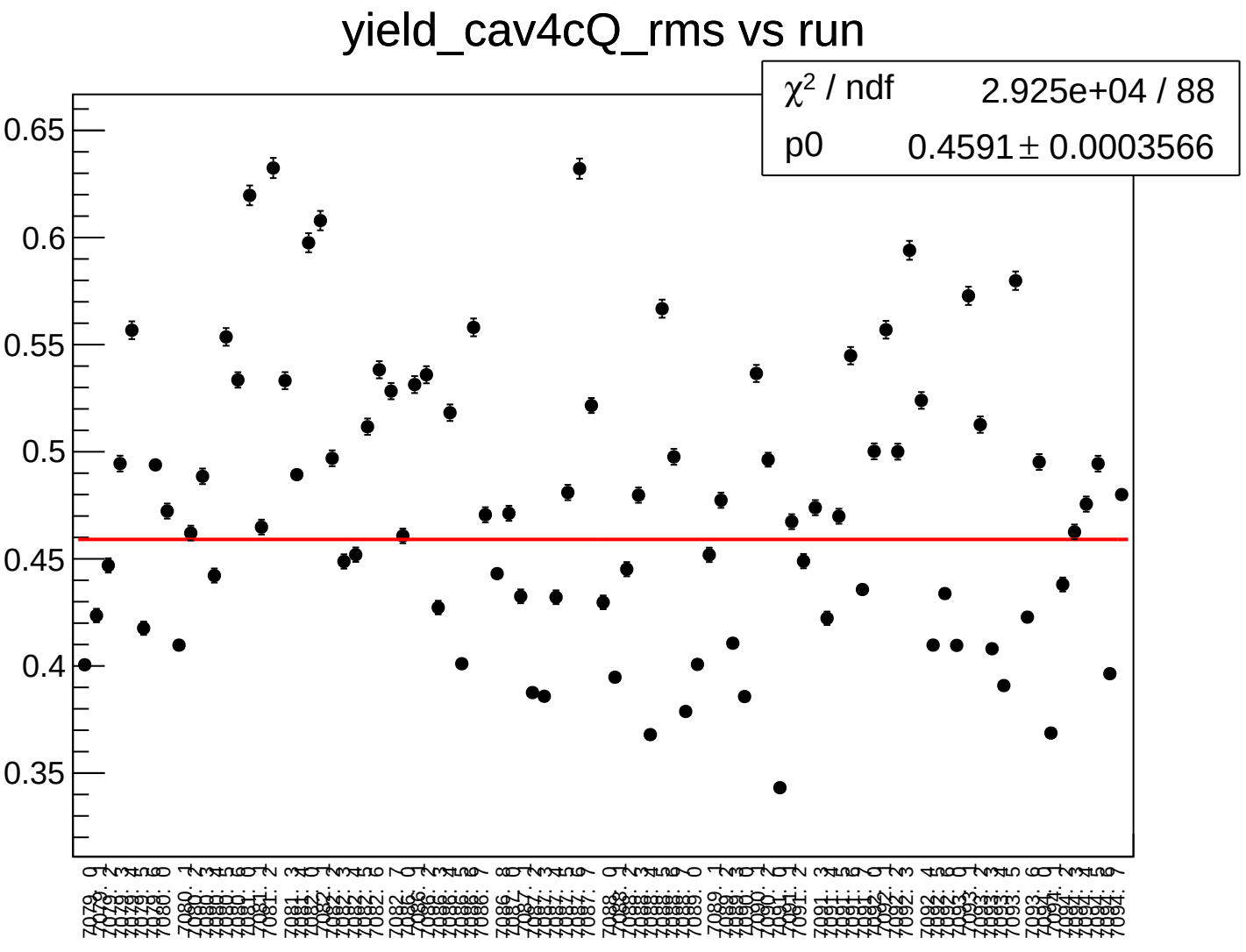

yield_cav4bQ_mean vs run
χ² / ndf 8.894e+05 / 88
p0 155.9 ± 0.0006395
157
156.5
156
155.5
155
pull
Entries 89
Mean −509.3
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

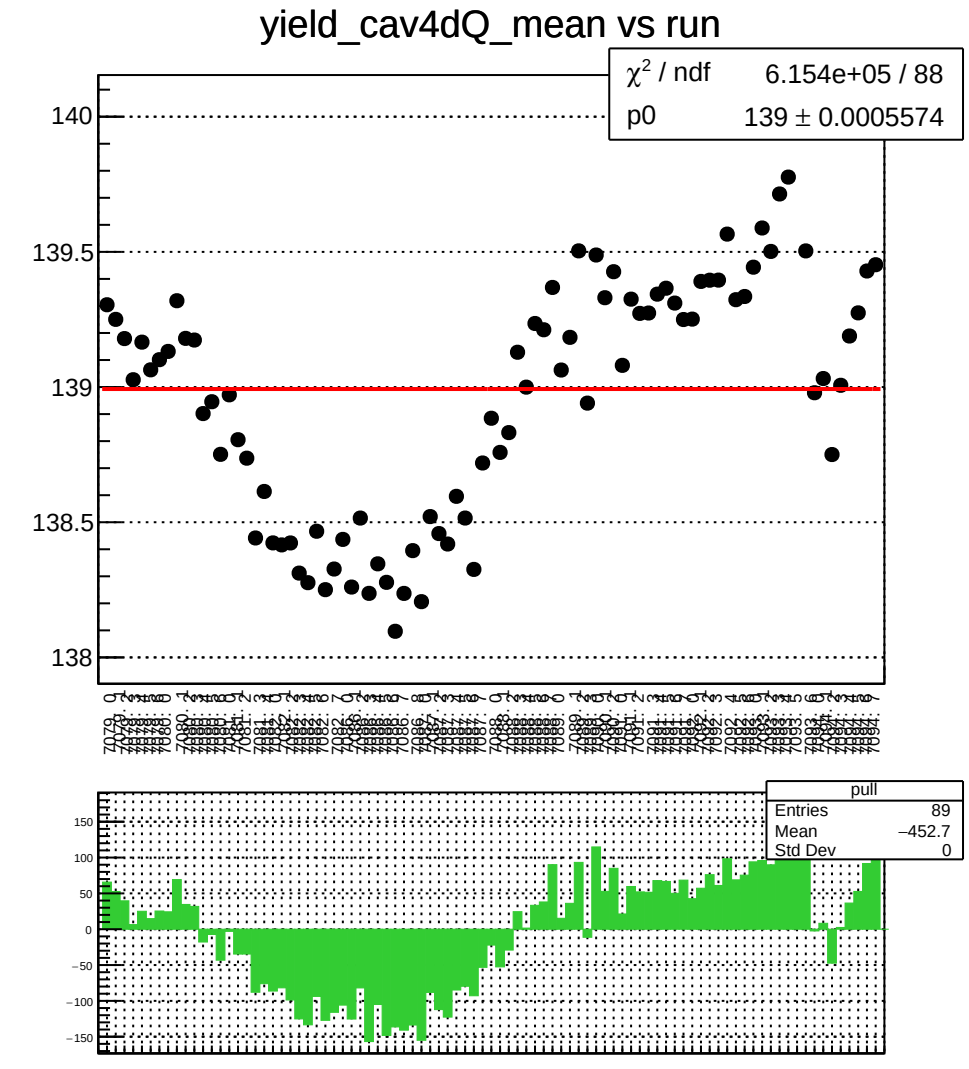

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

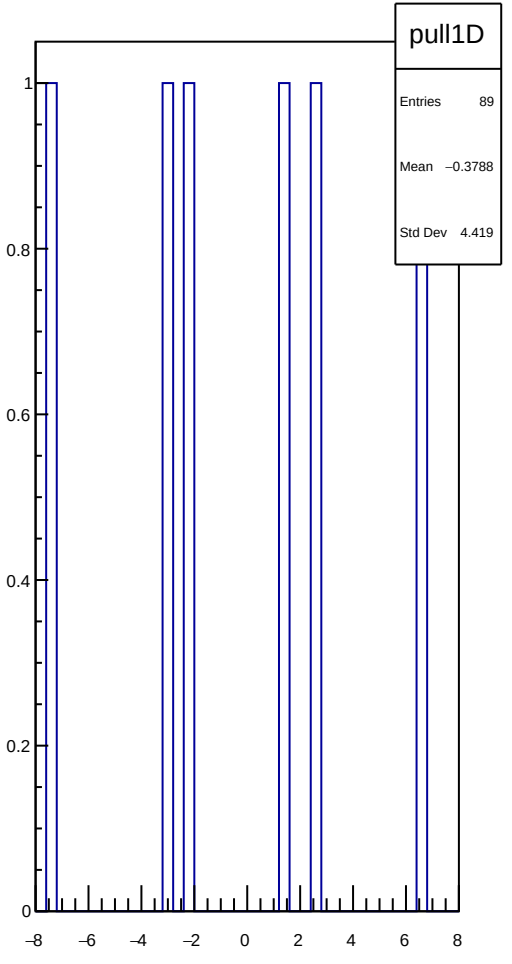

yield_cav4bQ_rms vs run
χ² / ndf 2.921e+04 / 88
p0 0.5821 ± 0.0004522
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

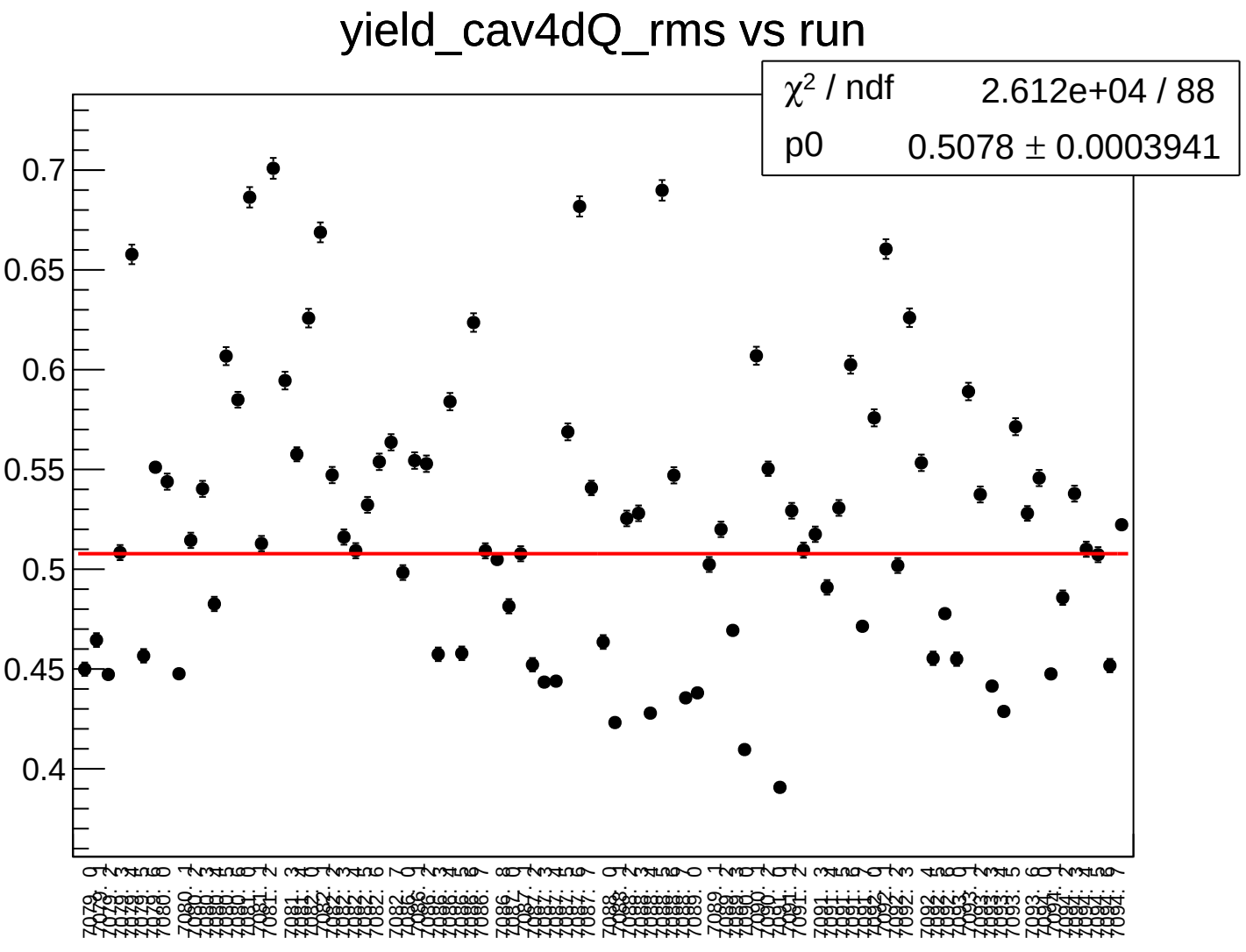

yield_cav4cQ_mean vs run
χ² / ndf 1.169e+06 / 88
p0 136.9 ± 0.0005044
138
137.5
137
136.5
136
pull
Entries 89
Mean −530.3
Std Dev 0
200
100
0
−100
−200

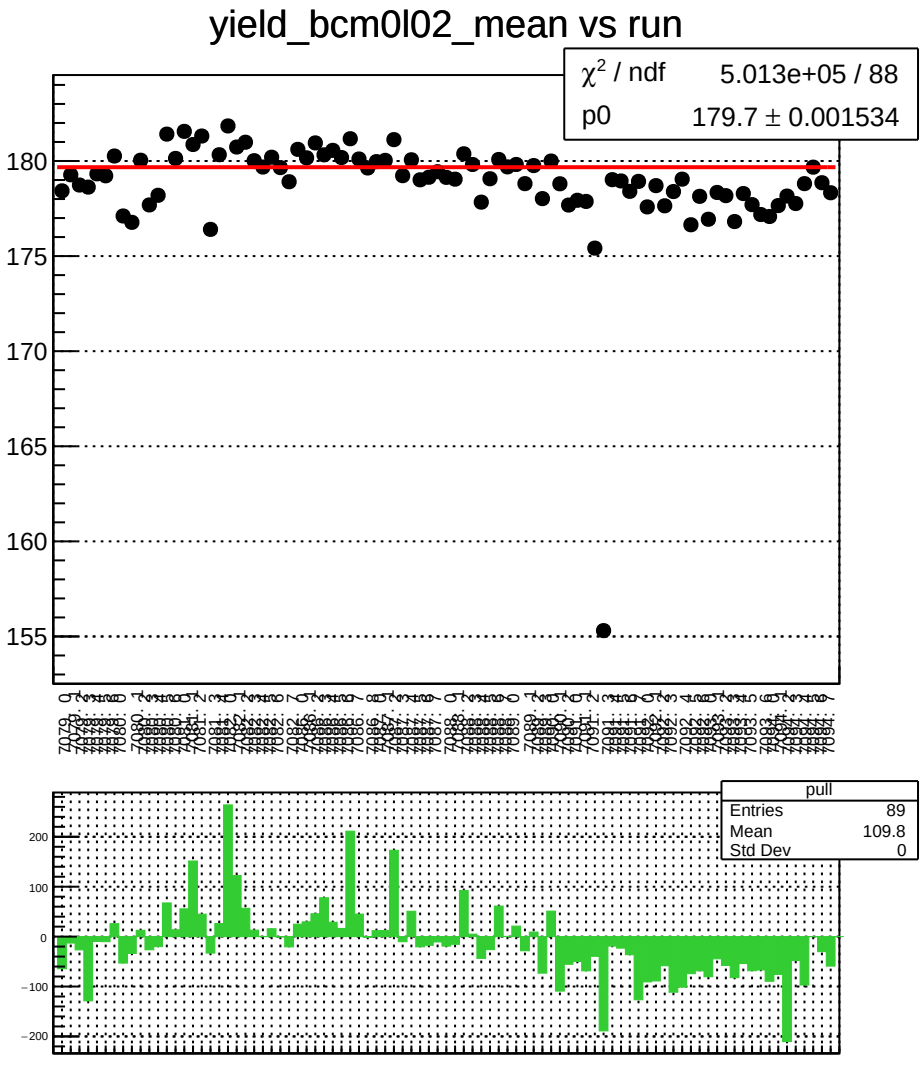

pull1D
Entries 89
Mean 0.3356
Std Dev 3.587
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

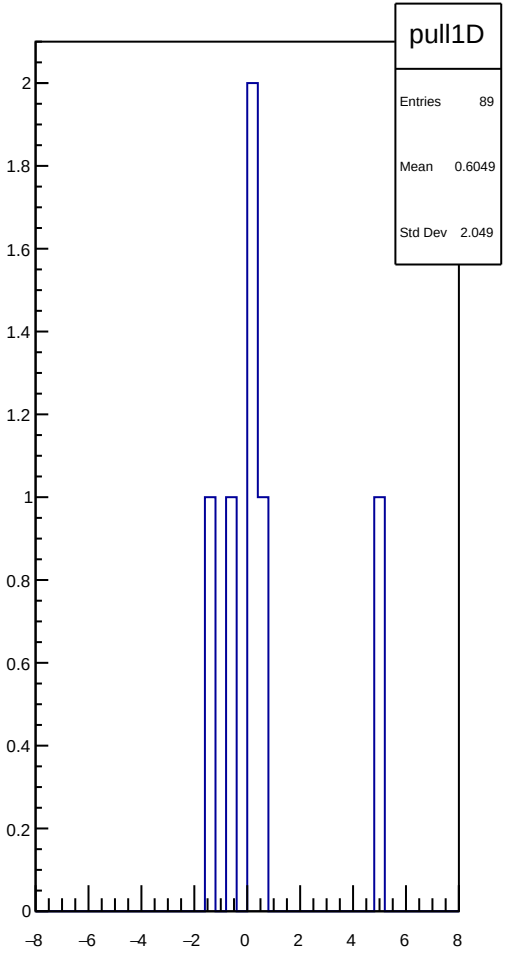

yield_cav4cQ_rms vs run
χ² / ndf 2.925e+04 / 88
p0 0.4591 ± 0.0003566
0.65
0.6
0.55
0.5
0.45
0.4
0.35

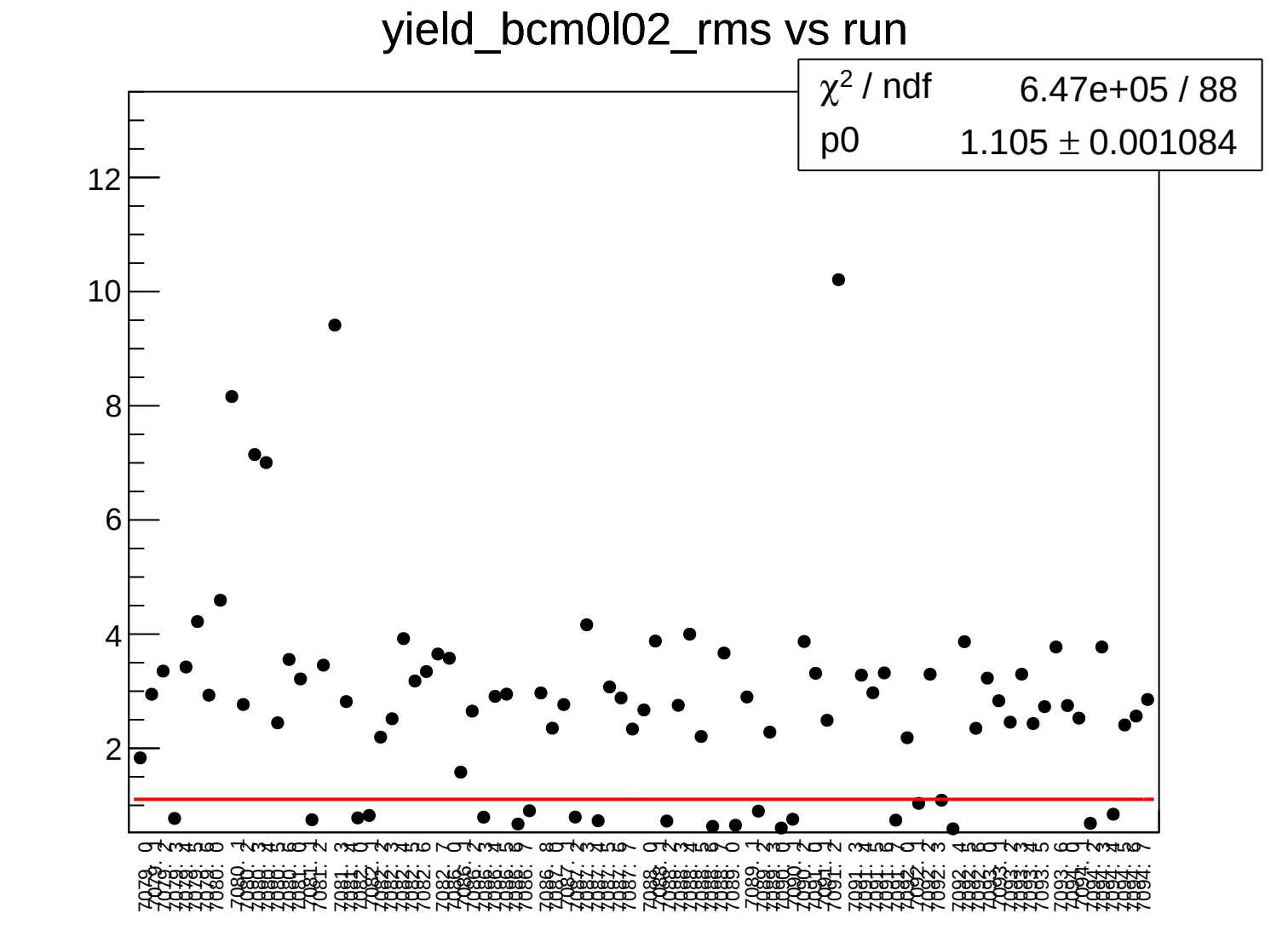

yield_cav4dQ_mean vs run
χ² / ndf 6.154e+05 / 88
p0 139 ± 0.0005574
140
139.5
139
138.5
138
pull
Entries 89
Mean −452.7
Std Dev 0
150
100
50
0
−50
−100
−150

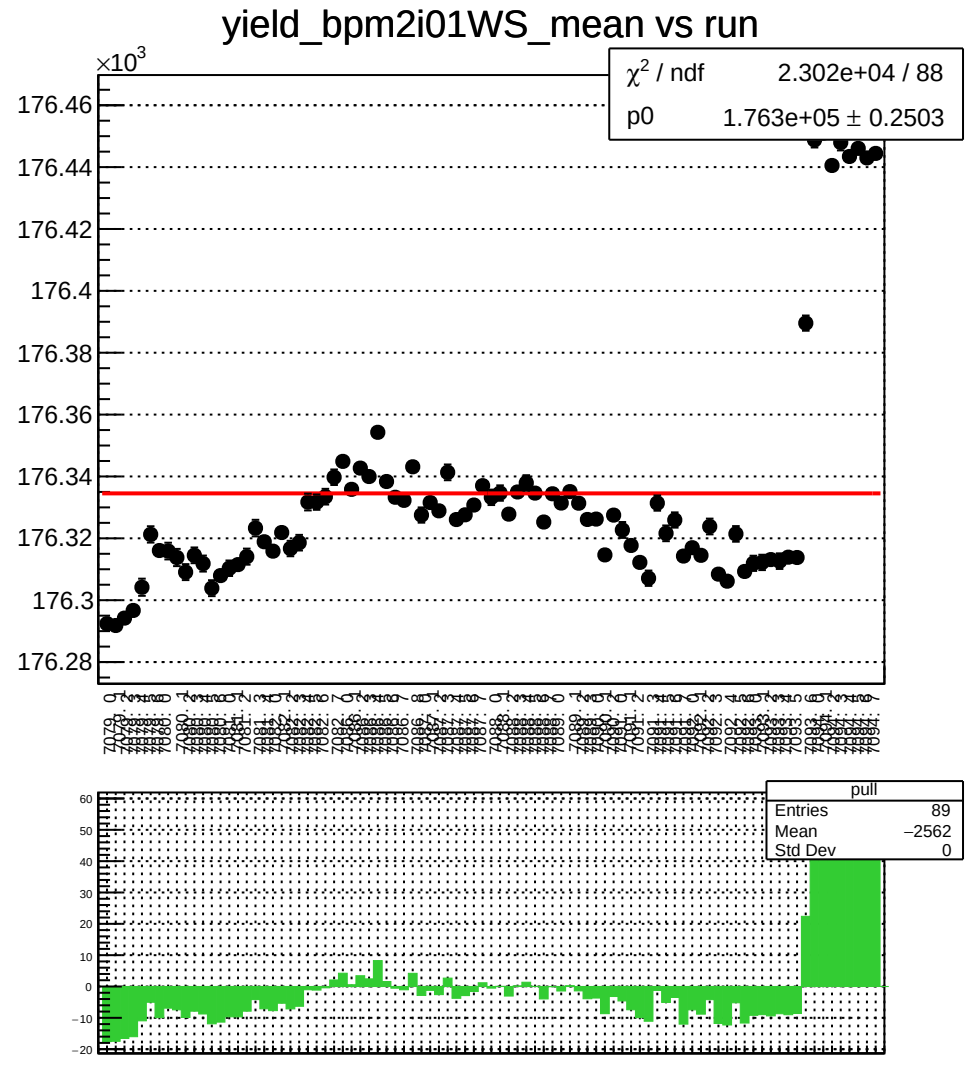

pull1D
Entries 89
Mean −0.3788
Std Dev 4.419
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

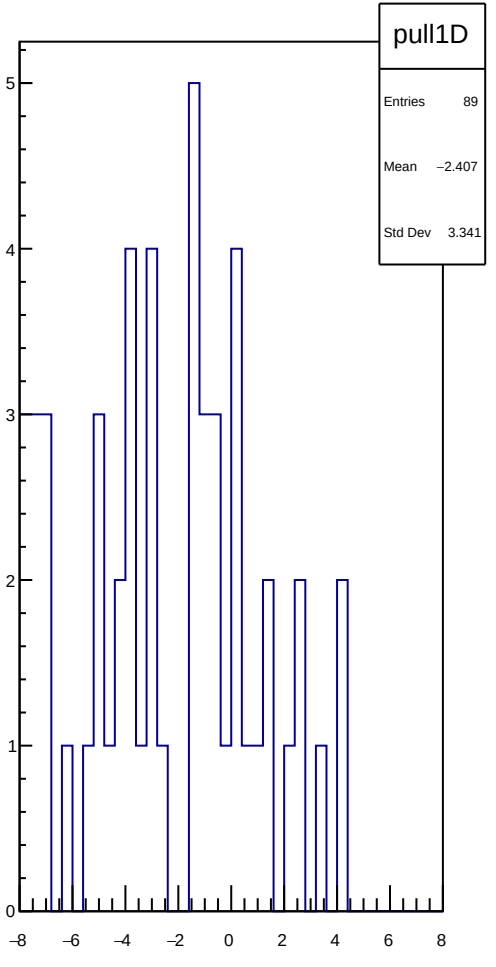

yield_cav4dQ_rms vs run
χ² / ndf 2.612e+04 / 88
p0 0.5078 ± 0.0003941
0.7
0.65
0.6
0.55
0.5
0.45
0.4

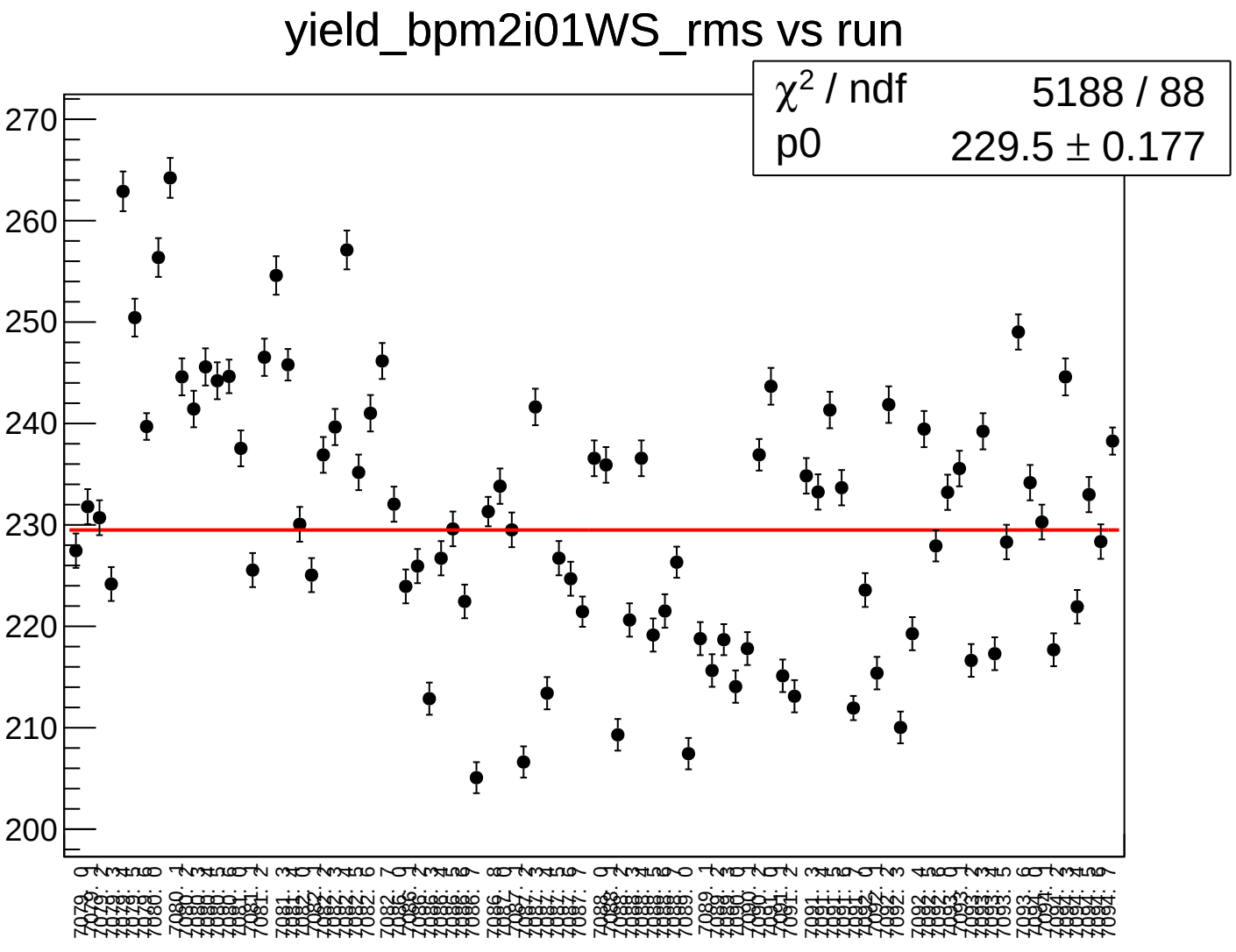

yield_bcm0l02_mean vs run
χ² / ndf 5.013e+05 / 88
p0 179.7 ± 0.001534
180
175
170
165
160
155
pull
Entries 89
Mean 109.8
Std Dev 0
200
100
0
−100
−200

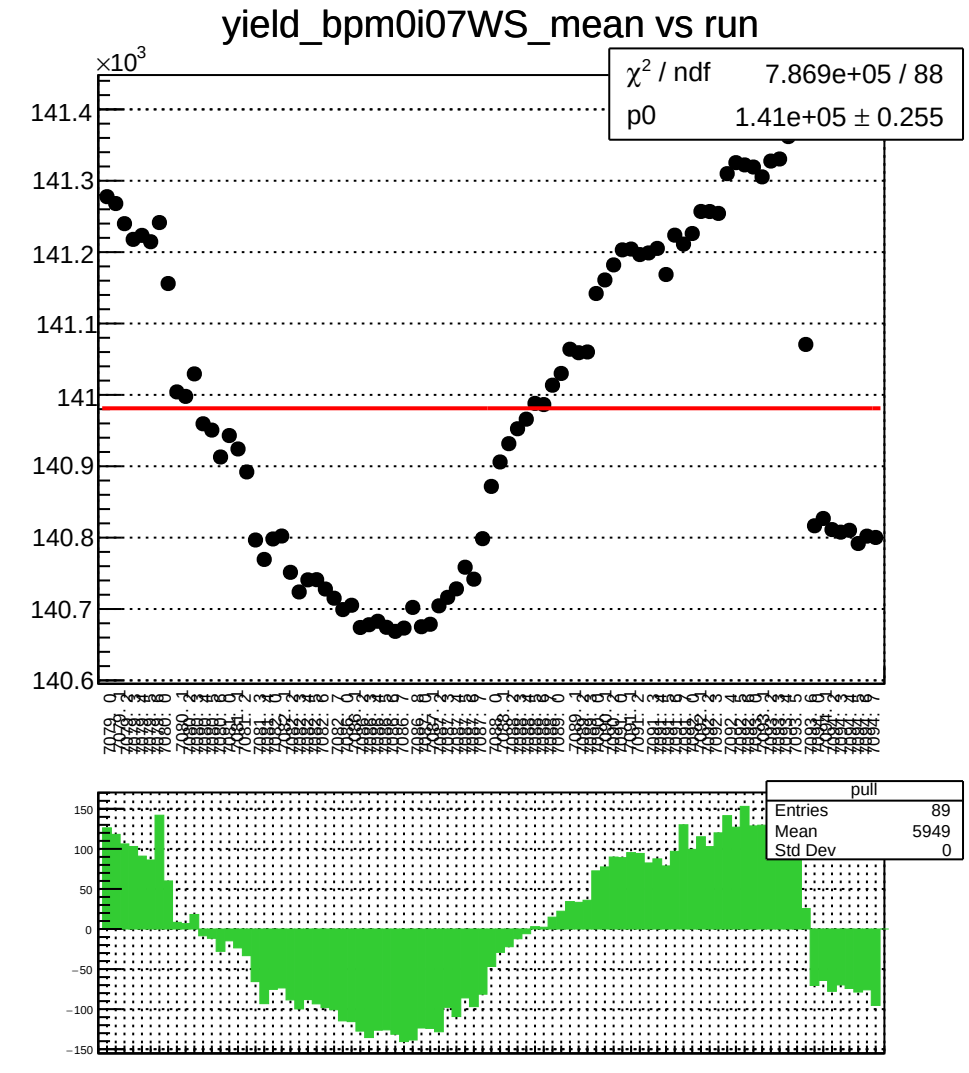

pull1D
Entries 89
Mean 0.6049
Std Dev 2.049
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

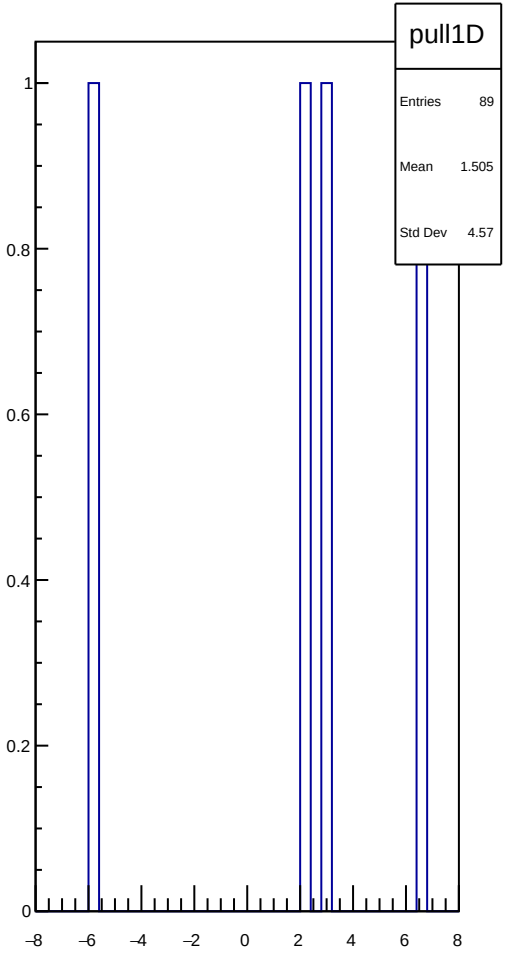

yield_bcm0l02_rms vs run
χ^2 / ndf 6.47e+05 / 88
p0 1.105 ± 0.001084
12
10
8
6
4
2

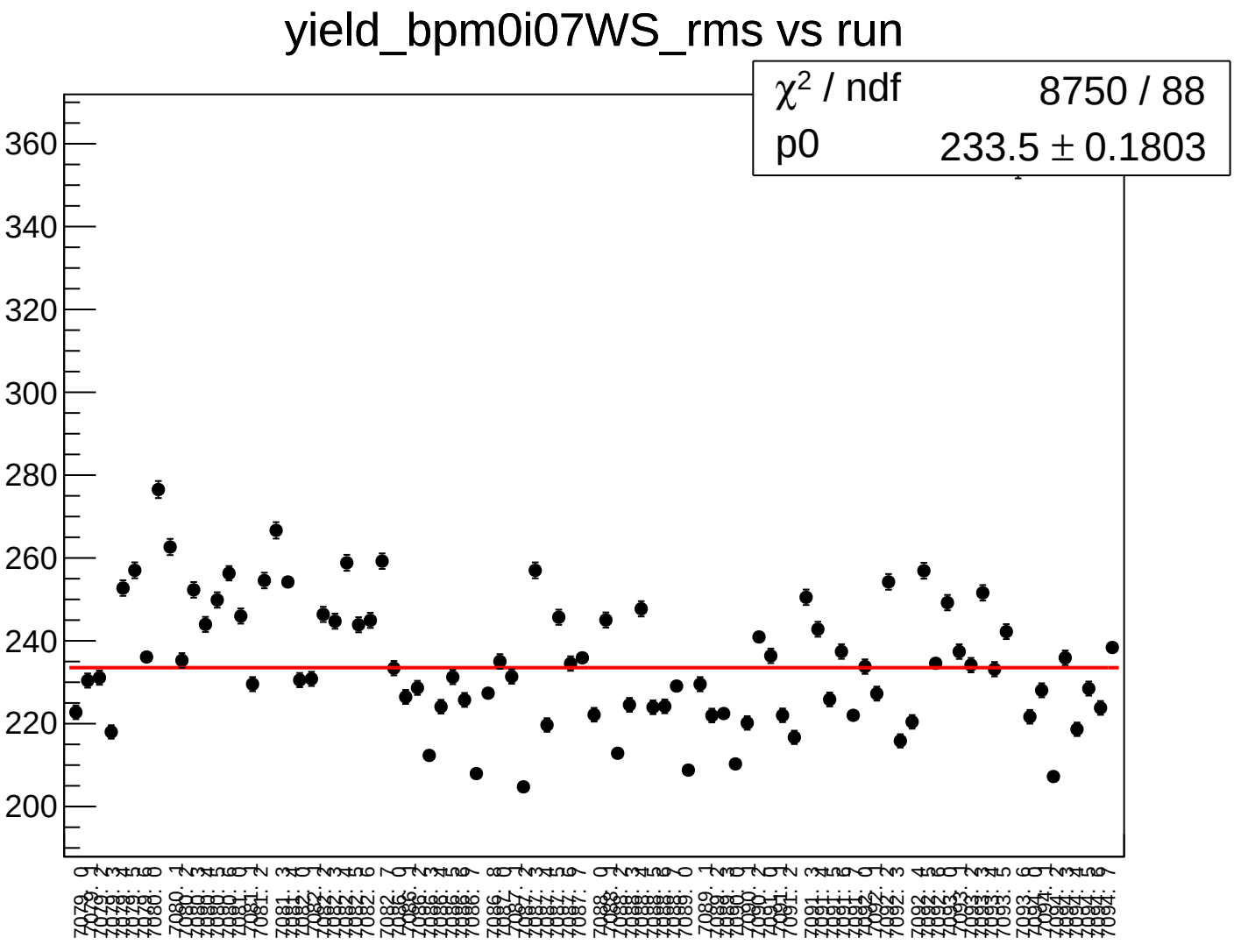

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.302e+04 / 88
p0 1.763e+05 ± 0.2503
176.46
176.44
176.42
176.4
176.38
176.36
176.34
176.32
176.3
176.28
pull
Entries 89
Mean −2562
Std Dev 0
60
50
40
30
20
10
0
−10
−20

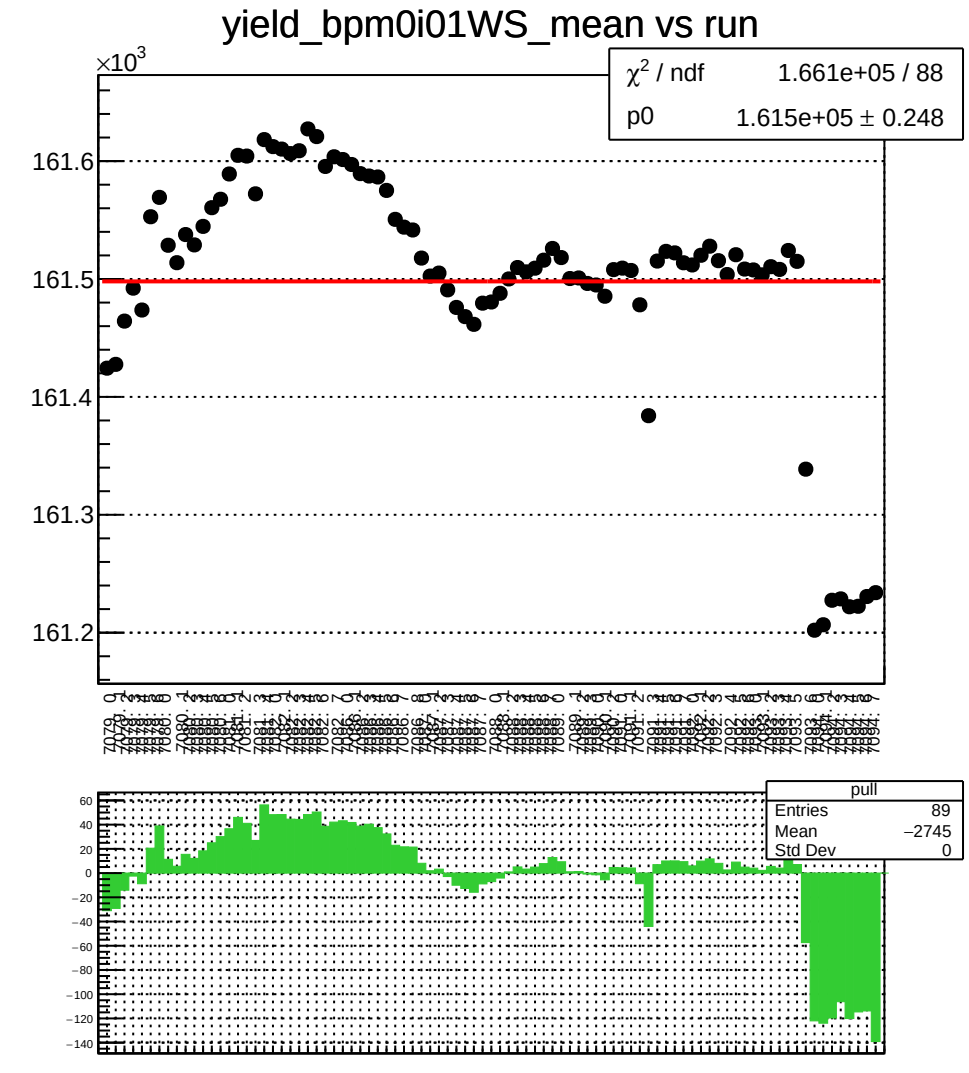

pull1D
Entries 89
Mean −2.407
Std Dev 3.341
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

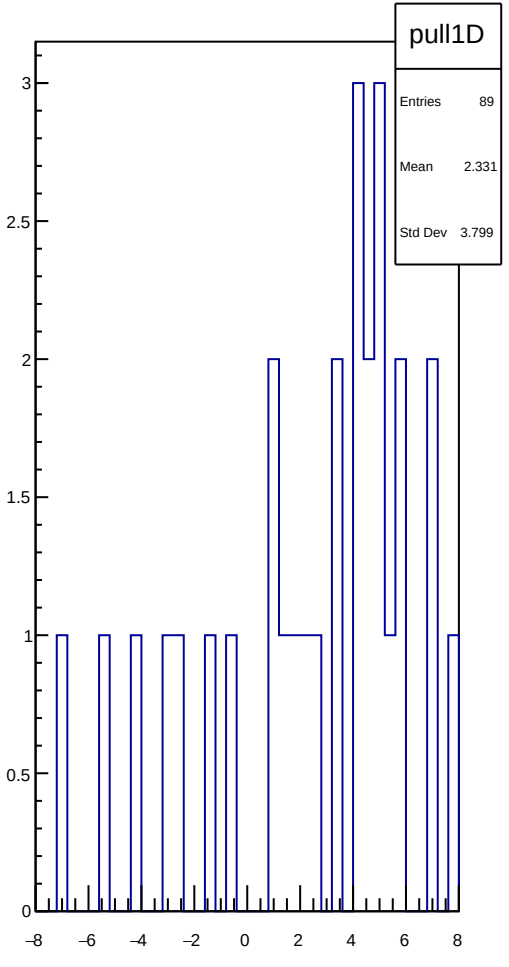

yield_bpm2i01WS_rms vs run
χ² / ndf 5188 / 88
p0 229.5 ± 0.177
270
260
250
240
230
220
210
200

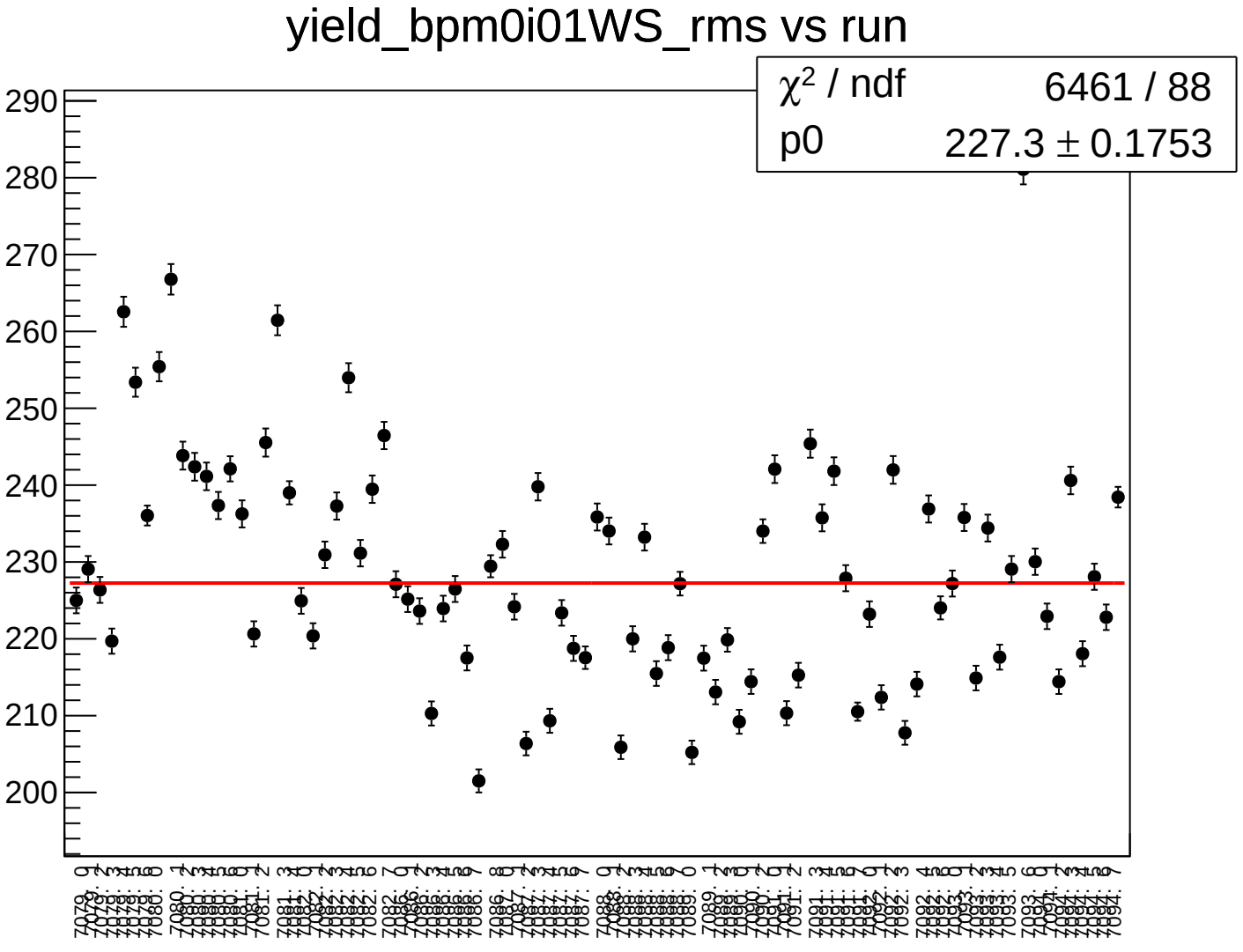

yield_bpm0i07WS_mean vs run
χ² / ndf 7.869e+05 / 88
p0 1.41e+05 ± 0.255
×10³
141.4
141.3
141.2
141.1
141
140.9
140.8
140.7
140.6
pull
Entries 89
Mean 5949
Std Dev 0
150
100
50
0
−50
−100
−150

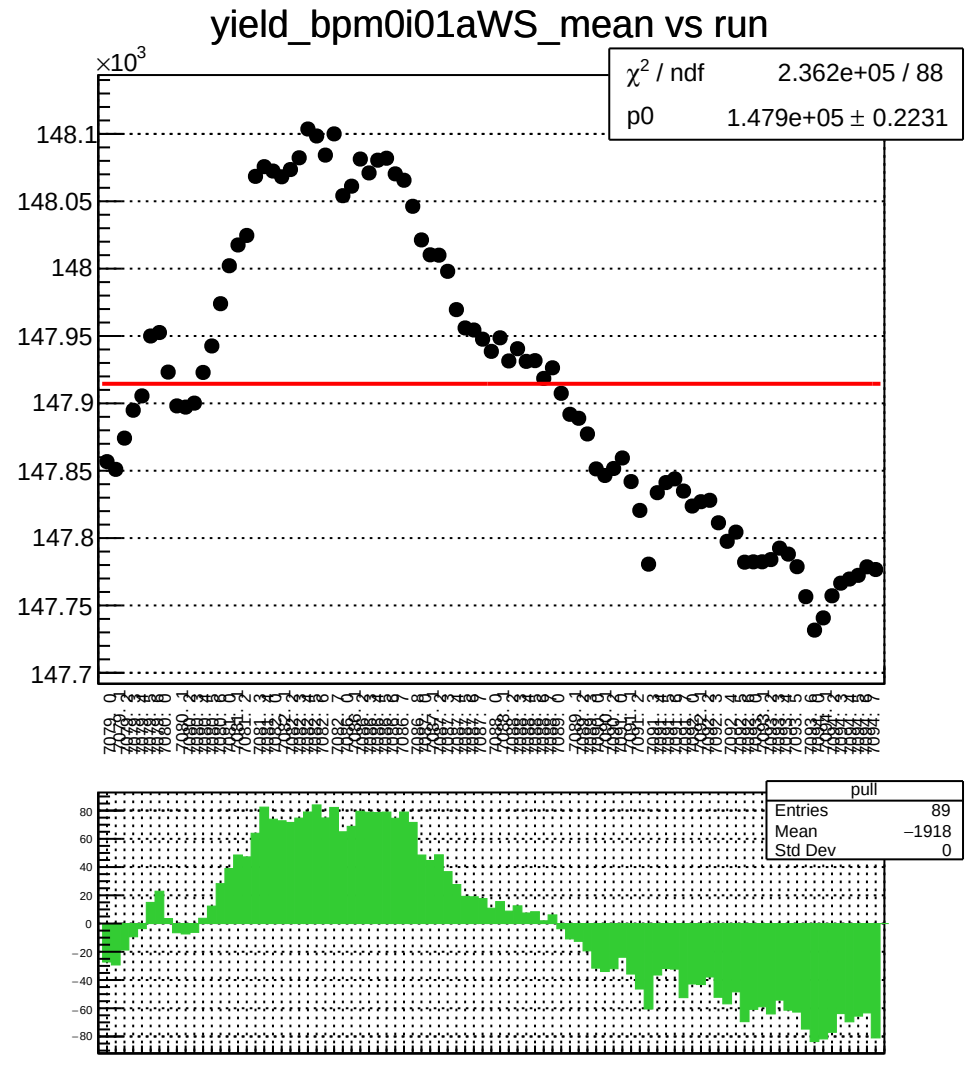

pull1D
Entries 89
Mean 1.505
Std Dev 4.57
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

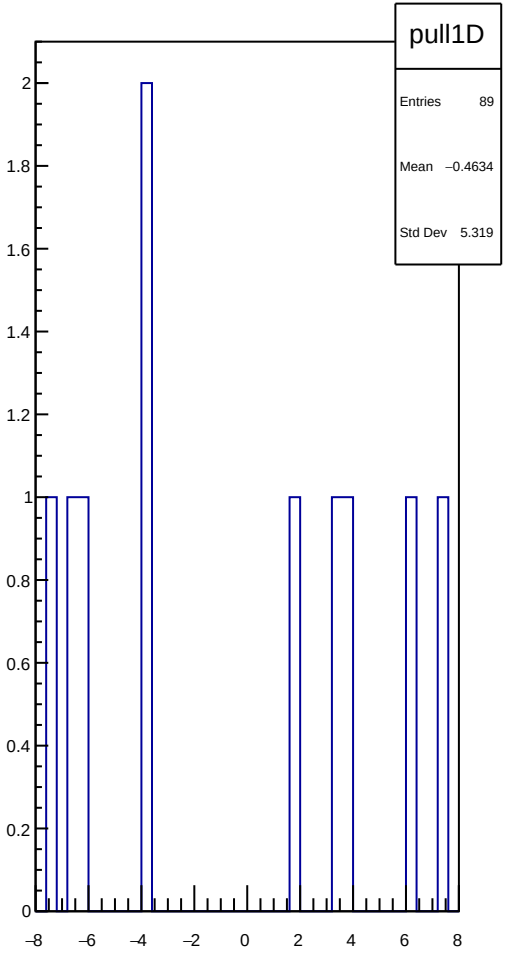

yield_bpm0i07WS_rms vs run
χ² / ndf 8750 / 88
p0 233.5 ± 0.1803
360
340
320
300
280
260
240
220
200

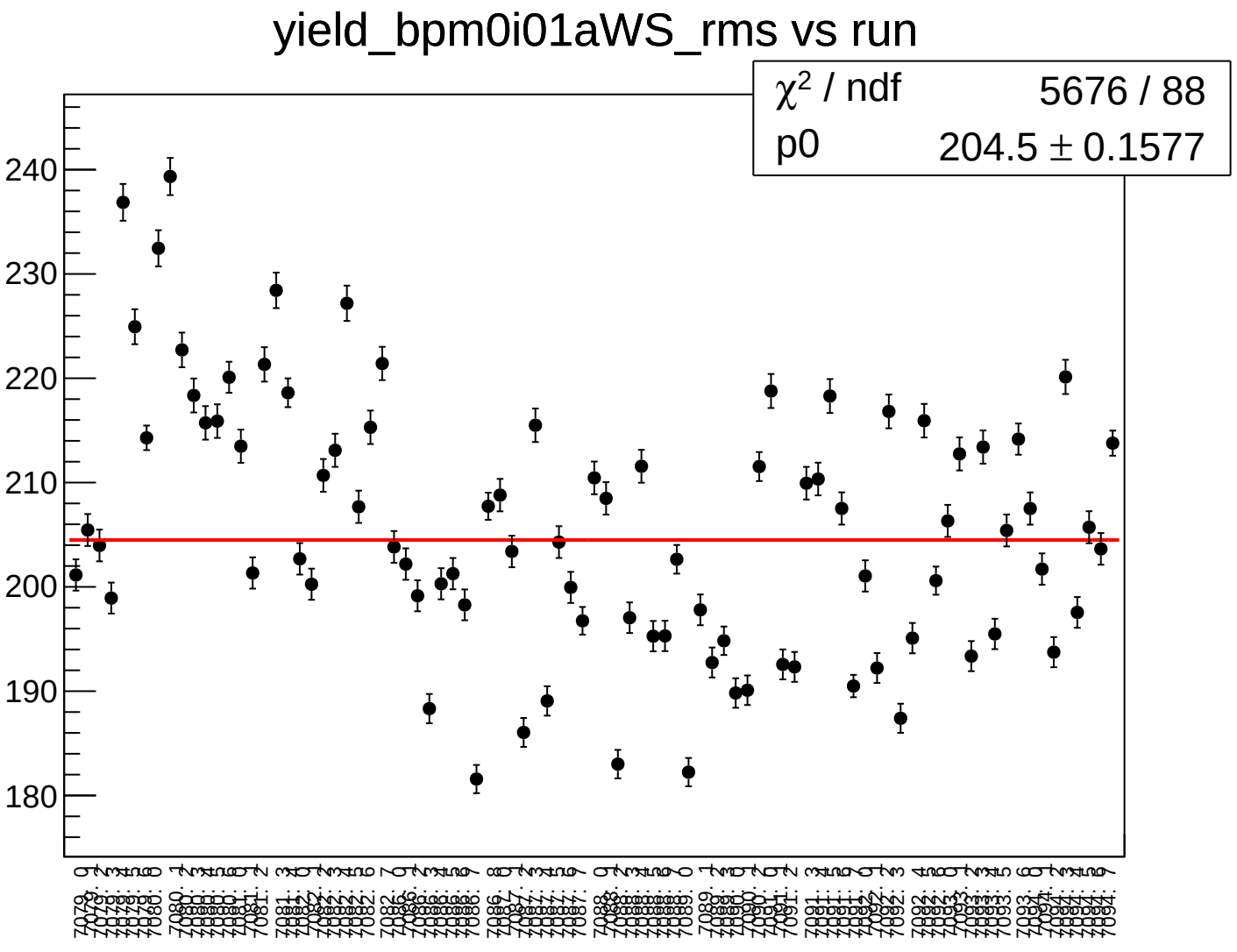

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.661e+05 / 88
p0 1.615e+05 ± 0.248
161.6
161.5
161.4
161.3
161.2
pull
Entries 89
Mean −2745
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

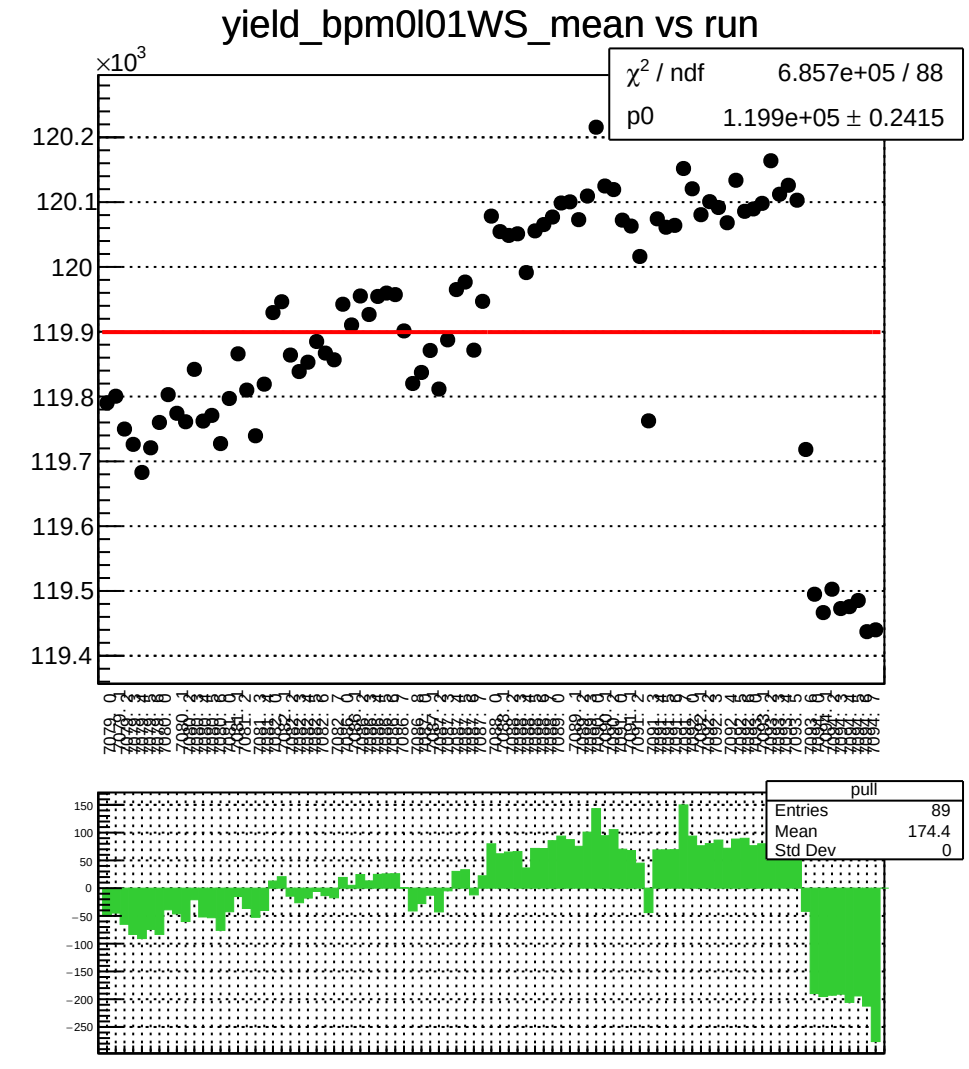

pull1D
Entries 89
Mean 2.331
Std Dev 3.799
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

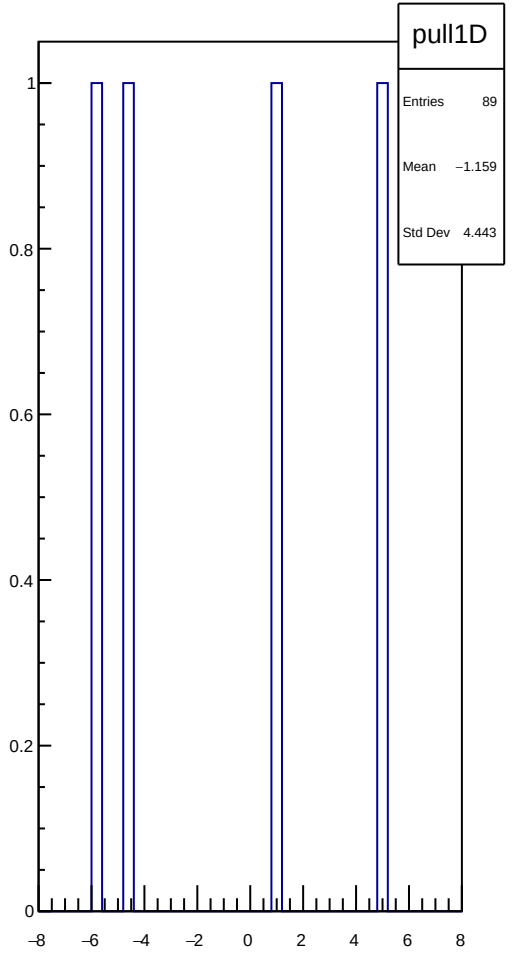

yield_bpm0i01WS_rms vs run
χ² / ndf 6461 / 88
p0 227.3 ± 0.1753
290
280
270
260
250
240
230
220
210
200

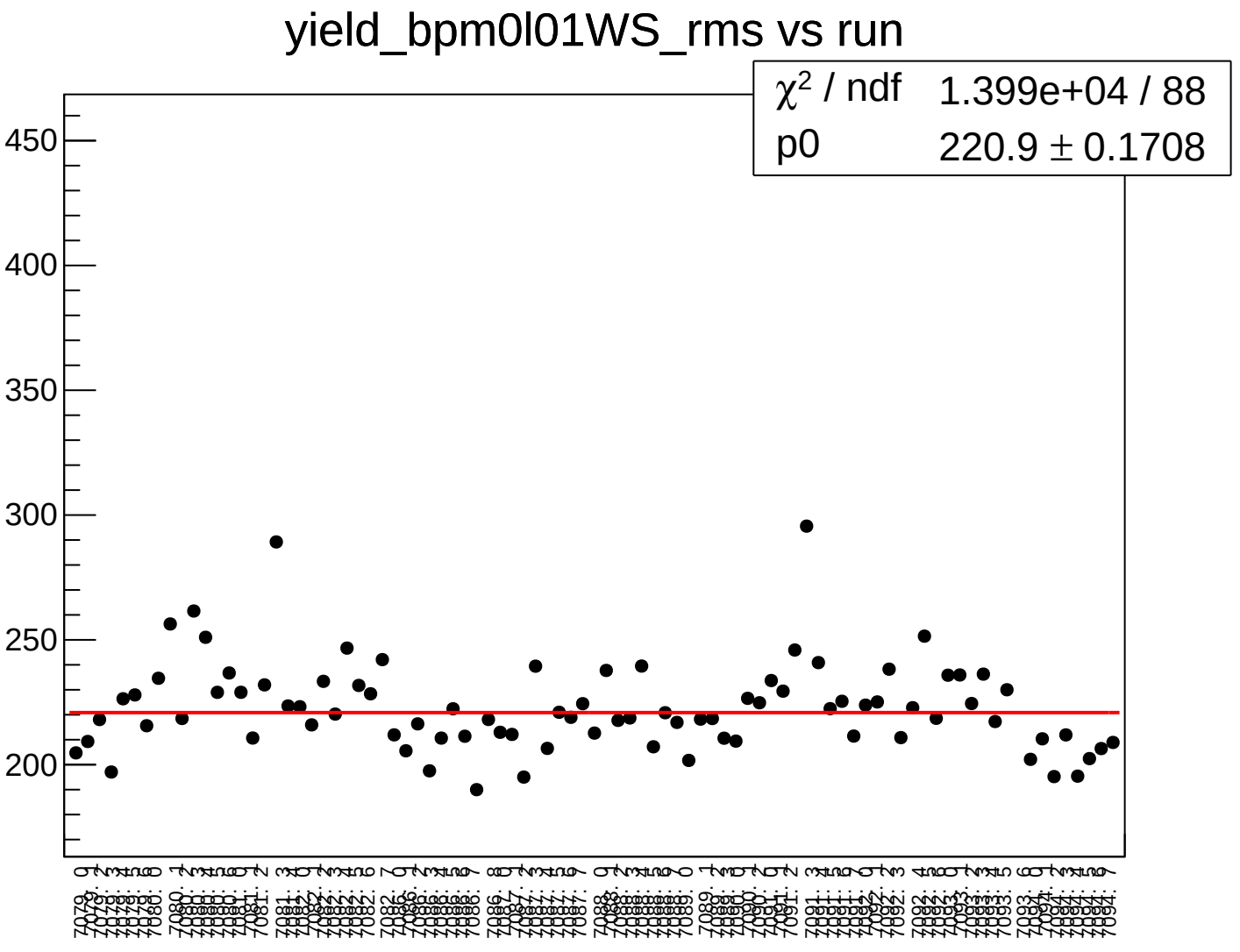

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 2.362e+05 / 88
p0 1.479e+05 ± 0.2231
148.1
148.05
148
147.95
147.9
147.85
147.8
147.75
147.7
pull
Entries 89
Mean −1918
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

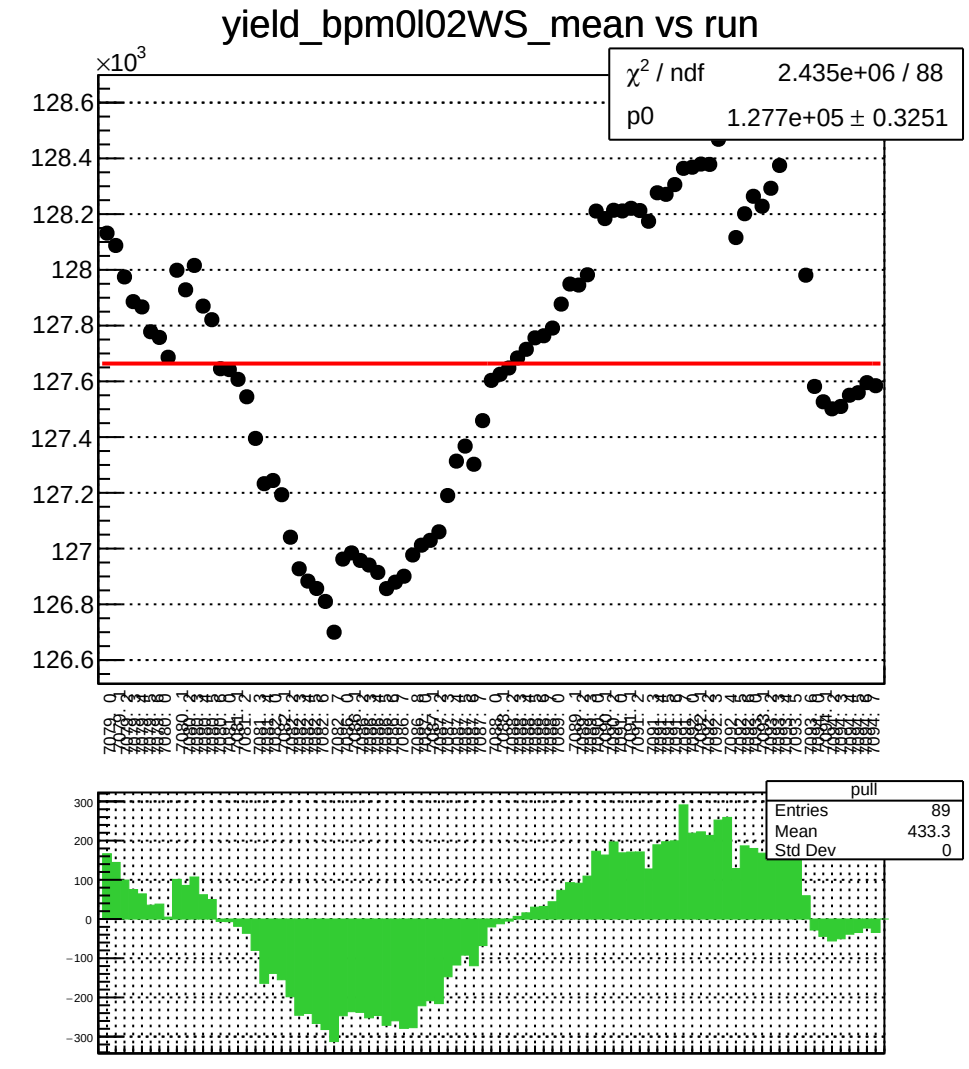

pull1D
Entries 89
Mean −0.4634
Std Dev 5.319
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

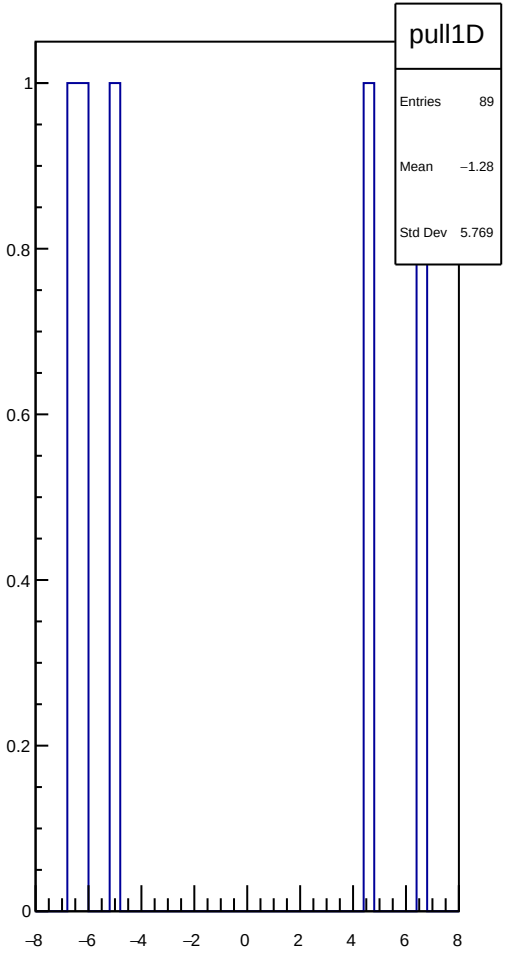

yield_bpm0i01aWS_rms vs run
χ² / ndf 5676 / 88
p0 204.5 ± 0.1577
240
230
220
210
200
190
180

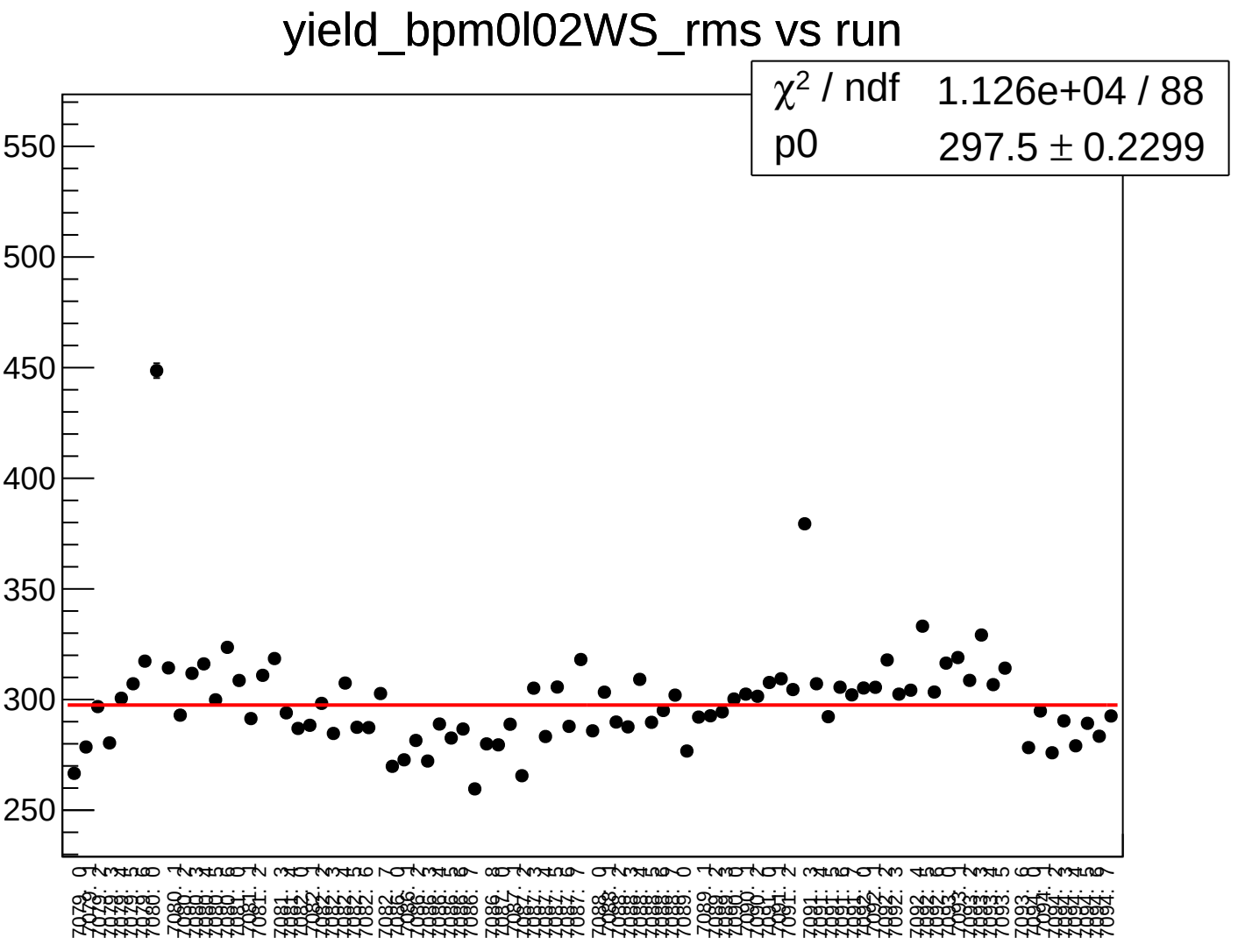

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 6.857e+05 / 88
p0 1.199e+05 ± 0.2415
120.2
120.1
120
119.9
119.8
119.7
119.6
119.5
119.4
pull
Entries 89
Mean 174.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

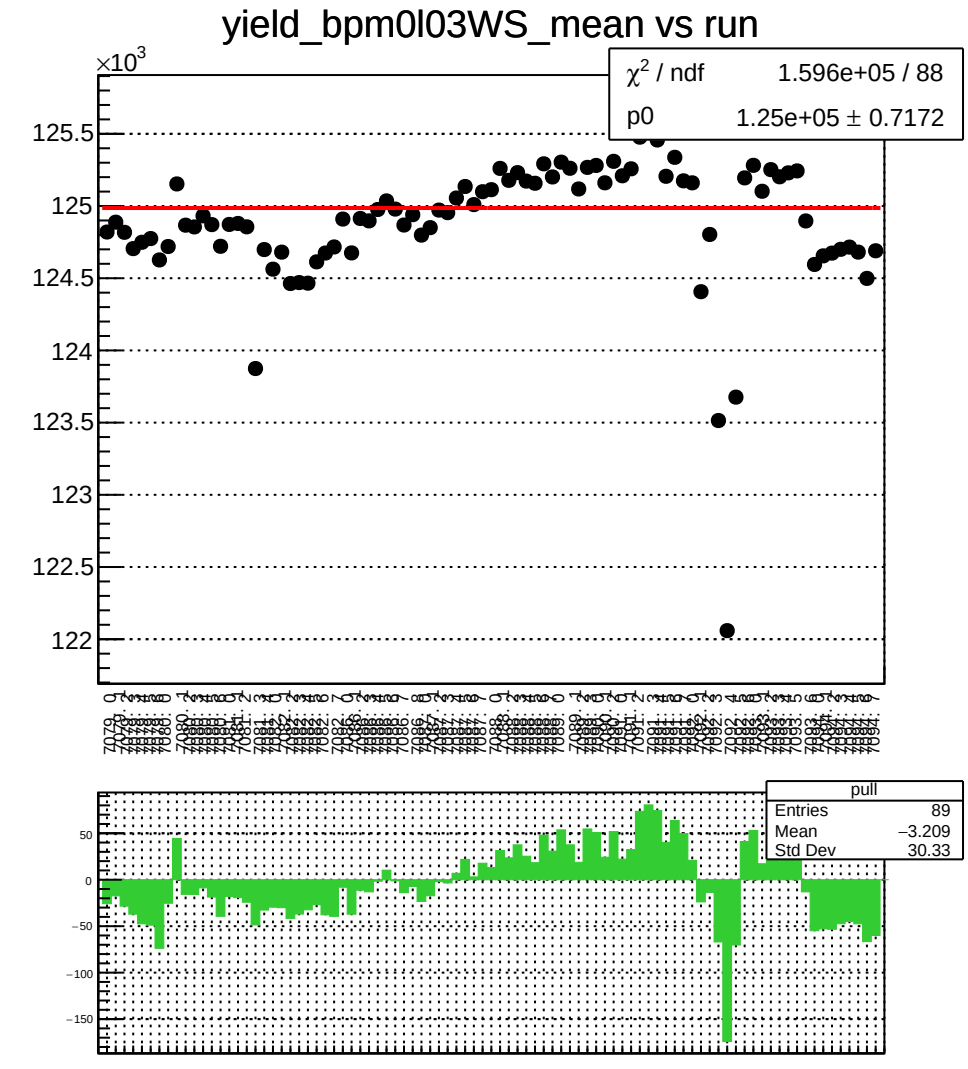

pull1D
Entries 89
Mean −1.159
Std Dev 4.443
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

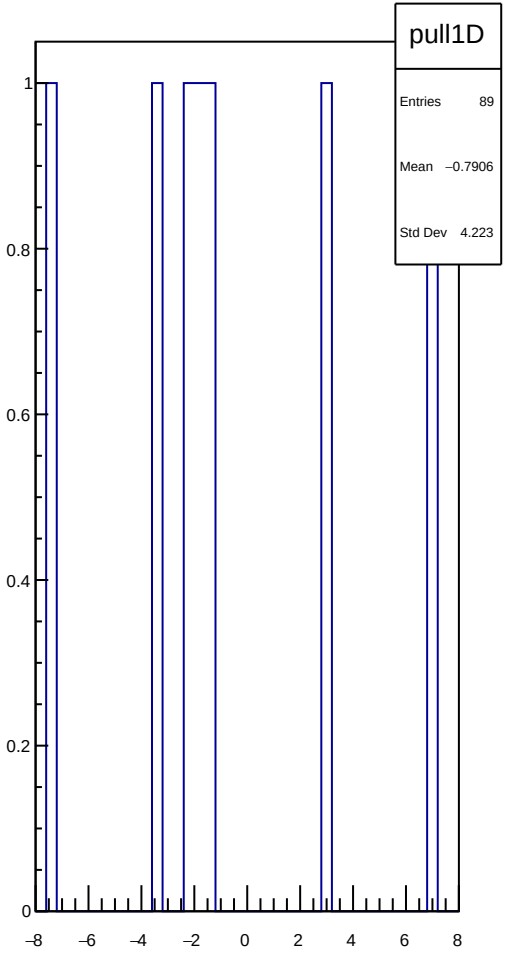

yield_bpm0l01WS_rms vs run
χ² / ndf 1.399e+04 / 88
p0 220.9 ± 0.1708
450
400
350
300
250
200

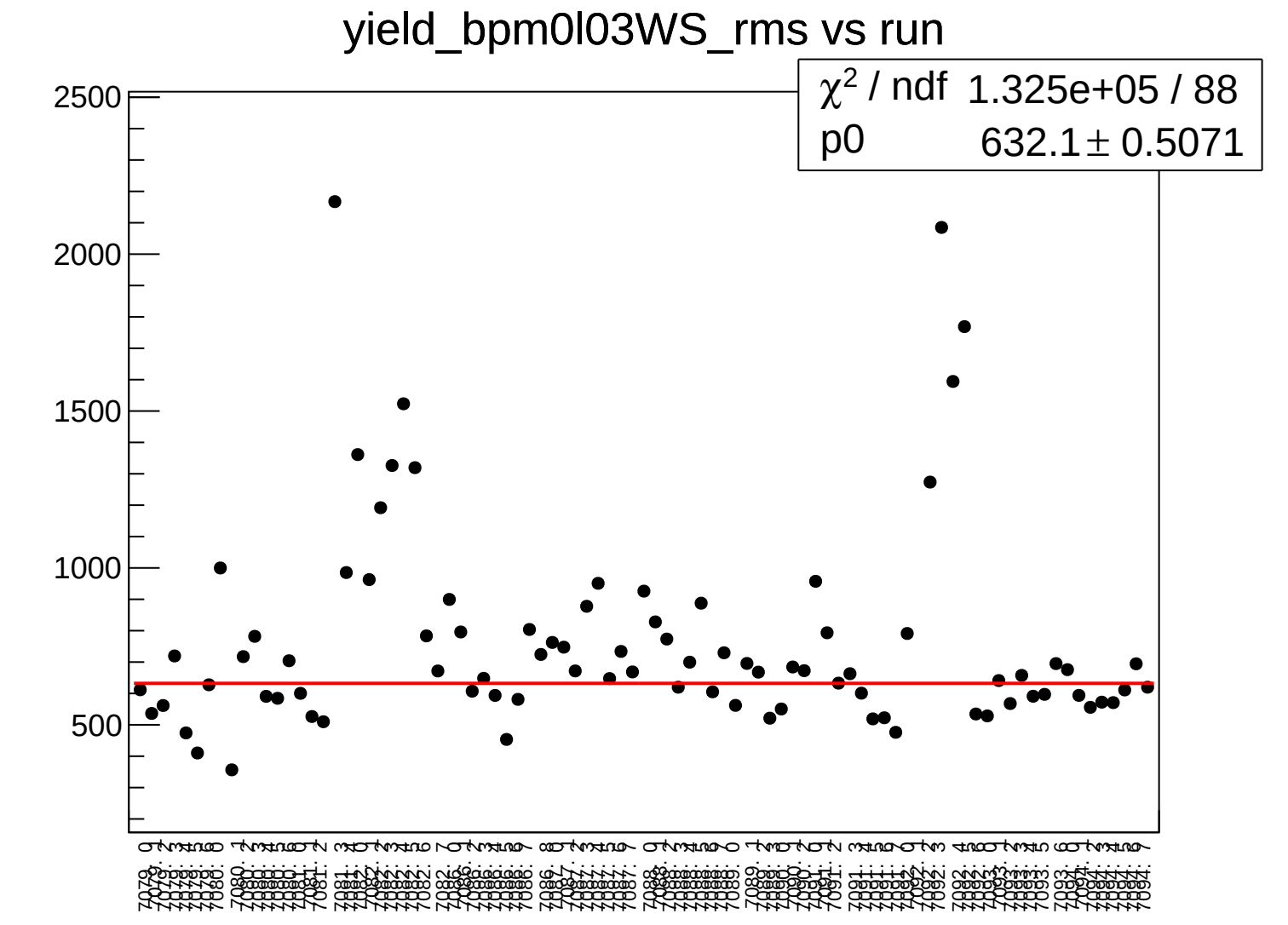

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 2.435e+06 / 88
p0 1.277e+05 ± 0.3251
128.6
128.4
128.2
128
127.8
127.6
127.4
127.2
127
126.8
126.6
pull
Entries 89
Mean 433.3
Std Dev 0
300
200
100
0
−100
−200
−300

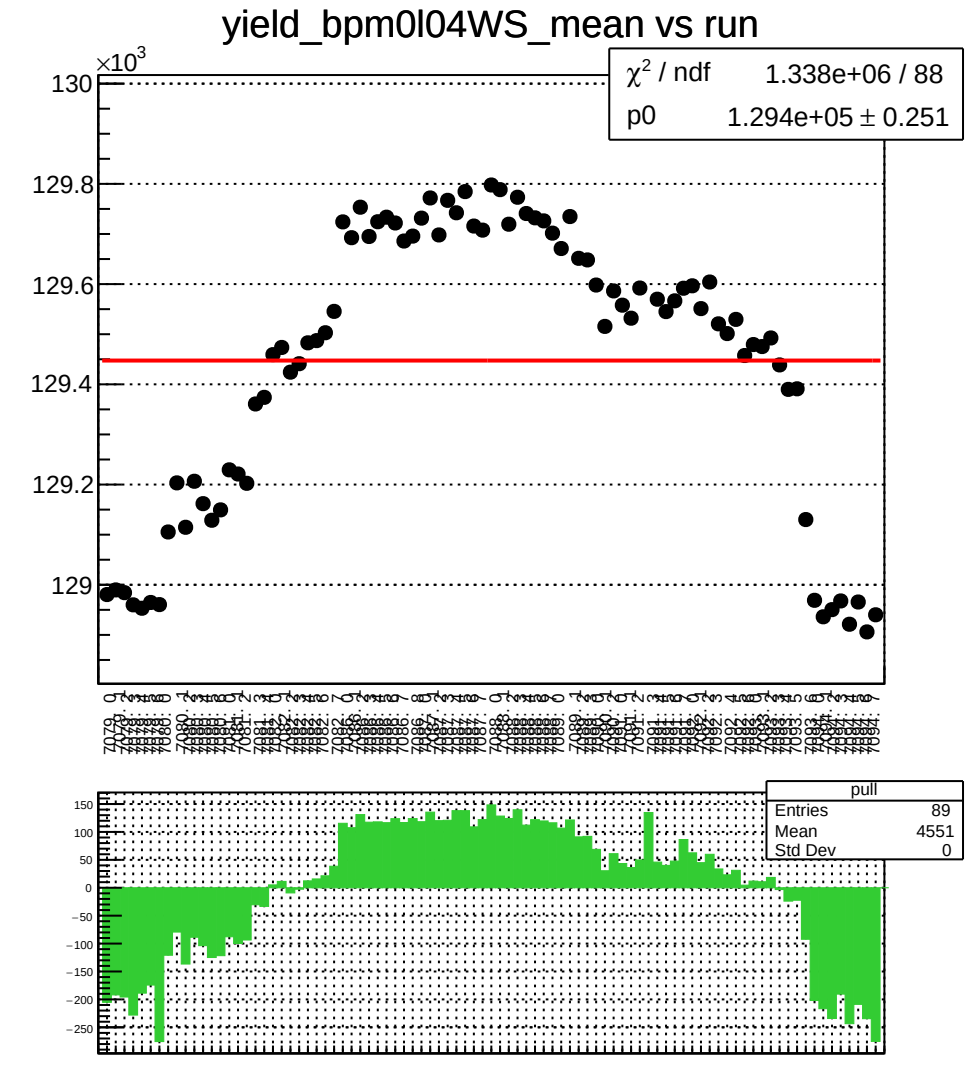

pull1D
Entries 89
Mean −1.28
Std Dev 5.769
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

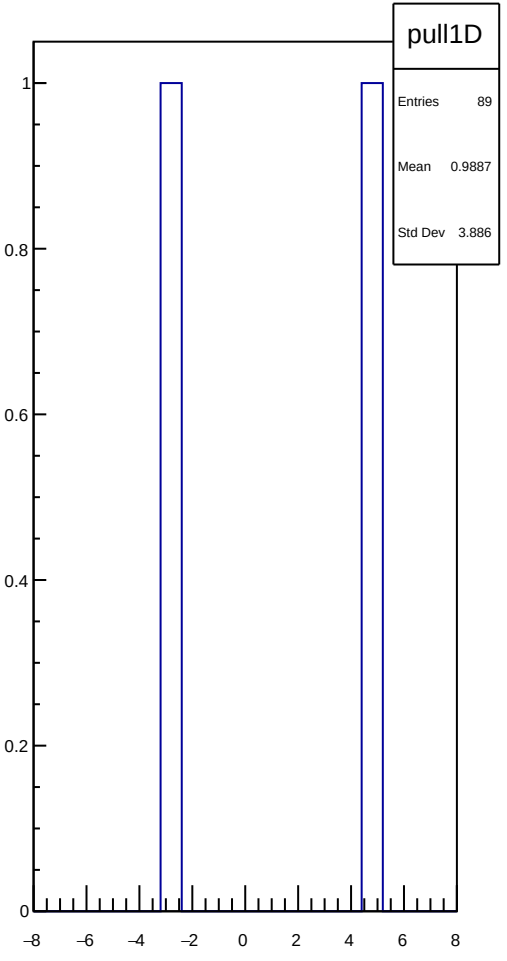

yield_bpm0l02WS_rms vs run
χ² / ndf 1.126e+04 / 88
p0 297.5 ± 0.2299
550
500
450
400
350
300
250

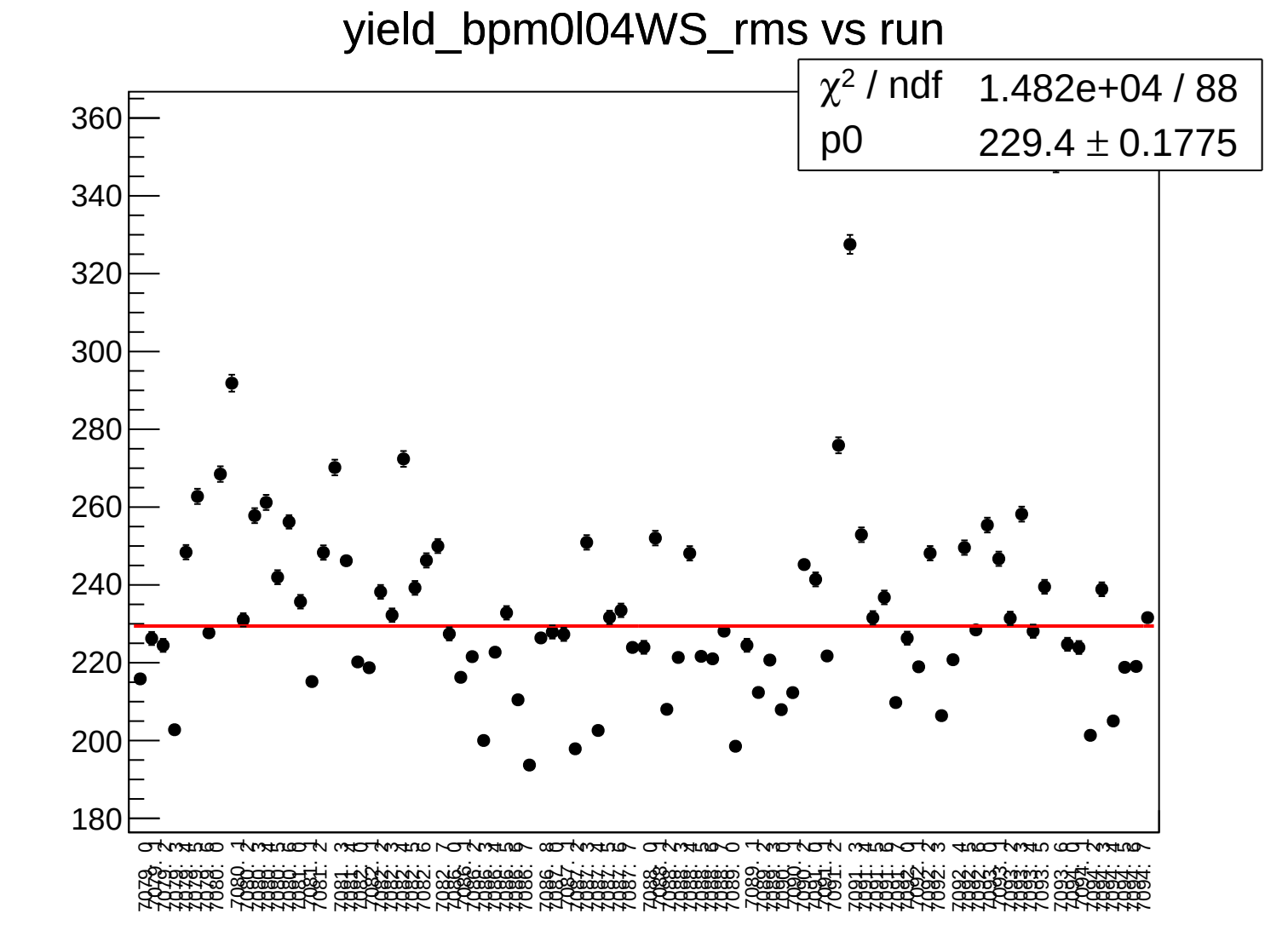

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.596e+05 / 88
p0 1.25e+05 ± 0.7172
125.5
125
124.5
124
123.5
123
122.5
122
pull
Entries 89
Mean −3.209
Std Dev 30.33
50
0
−50
−100
−150

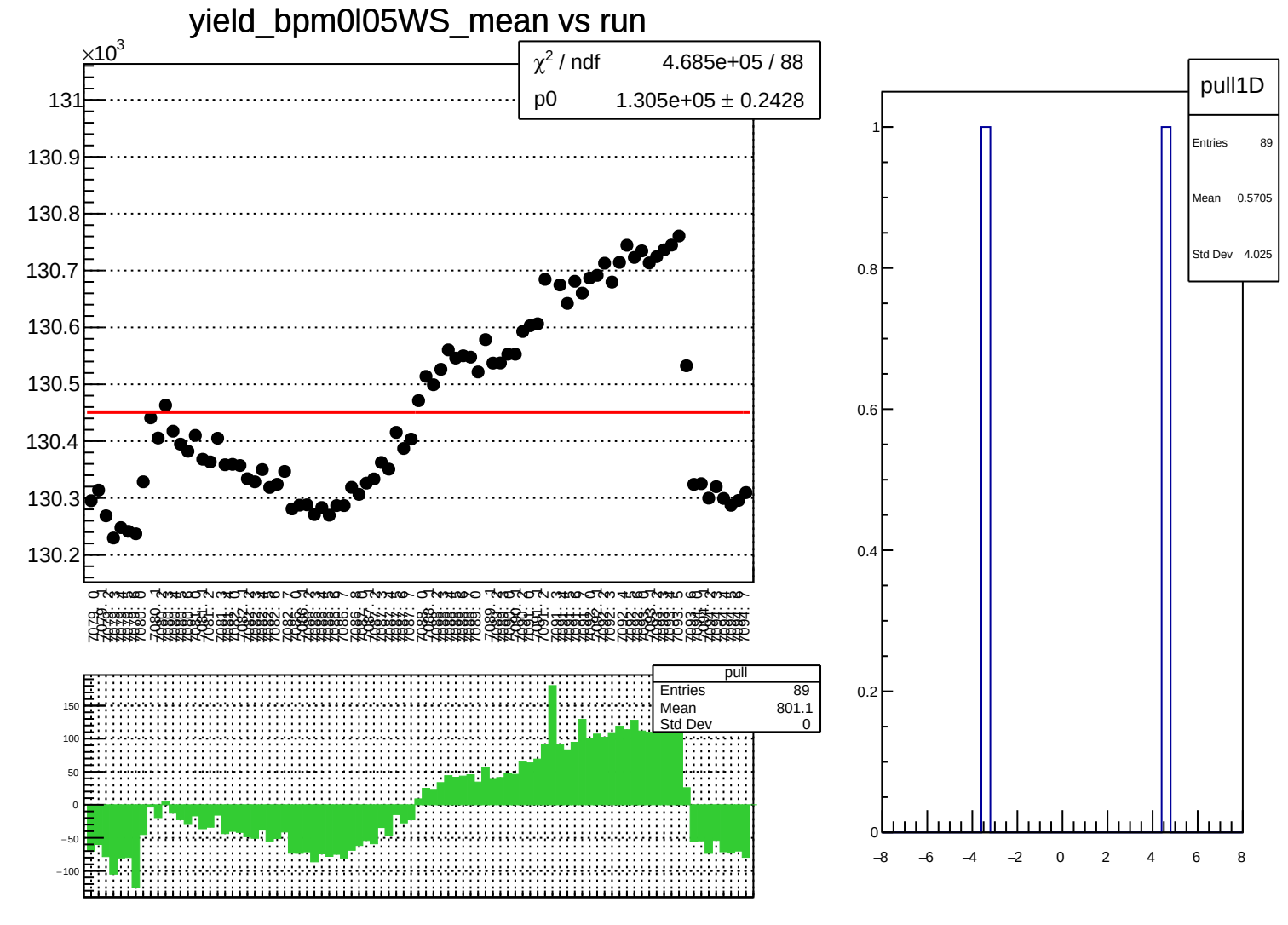

pull1D
Entries 89
Mean −0.7906
Std Dev 4.223
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

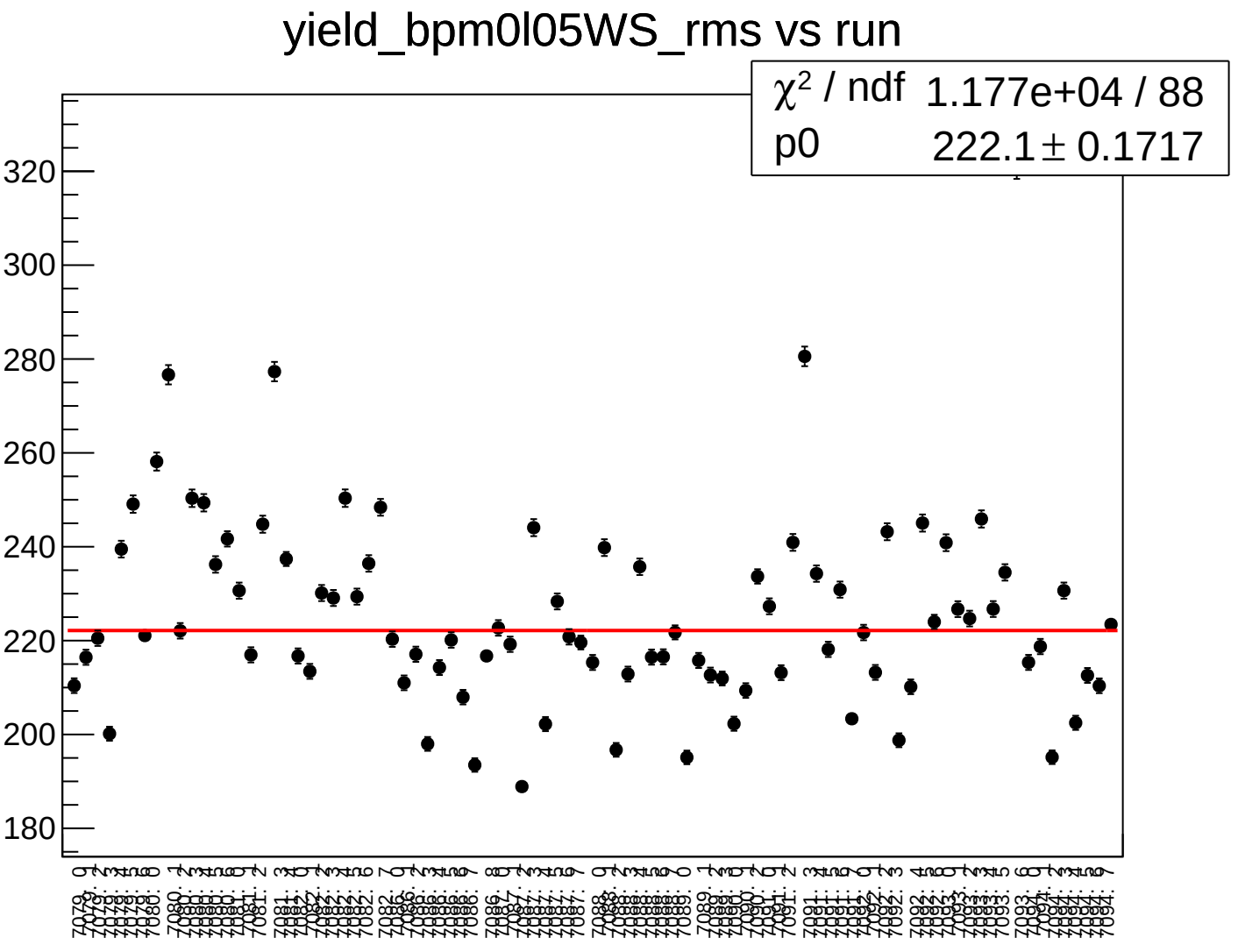

yield_bpm0l03WS_rms vs run
χ² / ndf 1.325e+05 / 88
p0 632.1 ± 0.5071
2500
2000
1500
1000
500

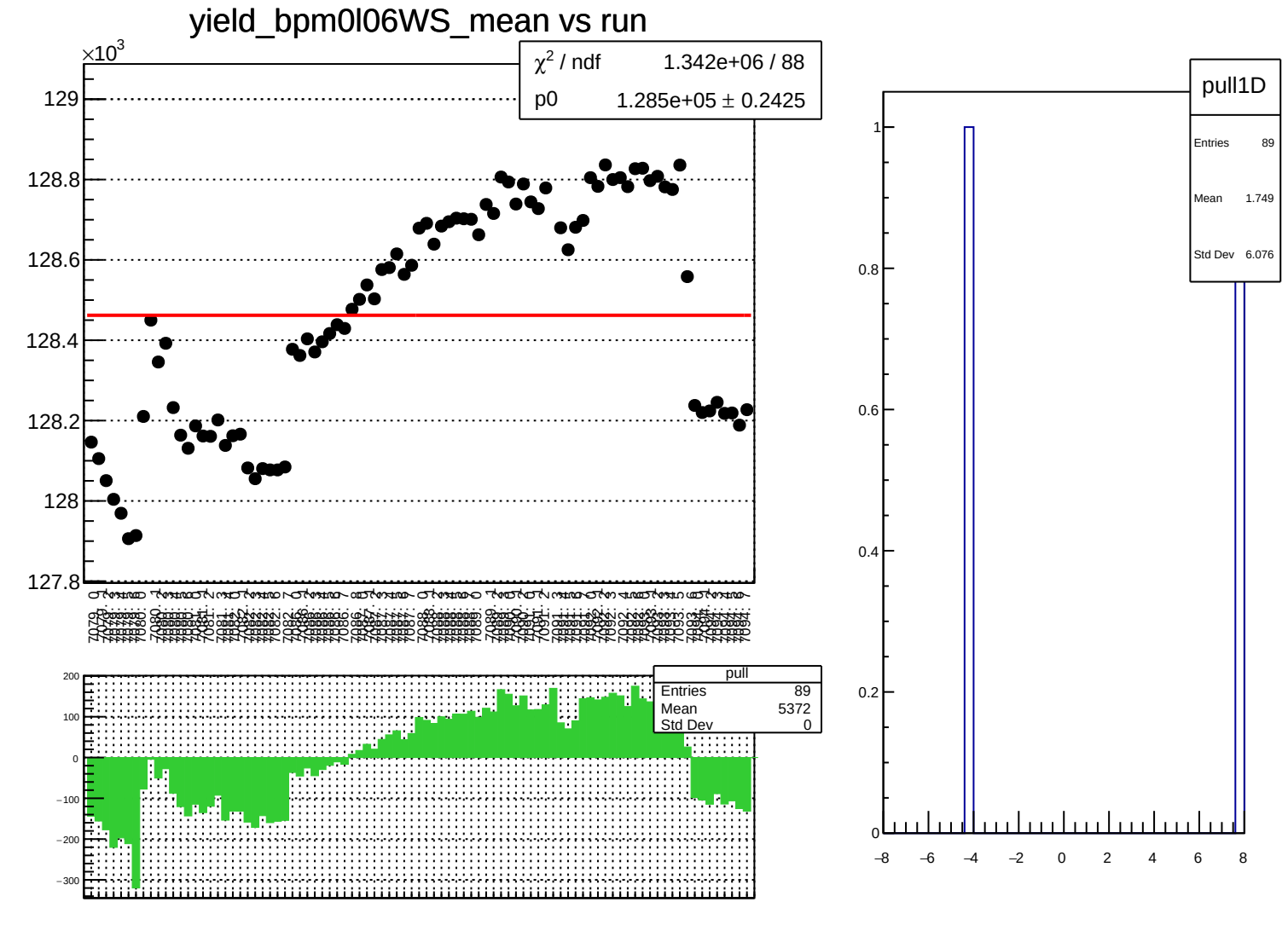

yield_bpm0l04WS_mean vs run
×10^3
130
129.8
129.6
129.4
129.2
129
χ² / ndf 1.338e+06 / 88
p0 1.294e+05 ± 0.251
pull
Entries 89
Mean 4551
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

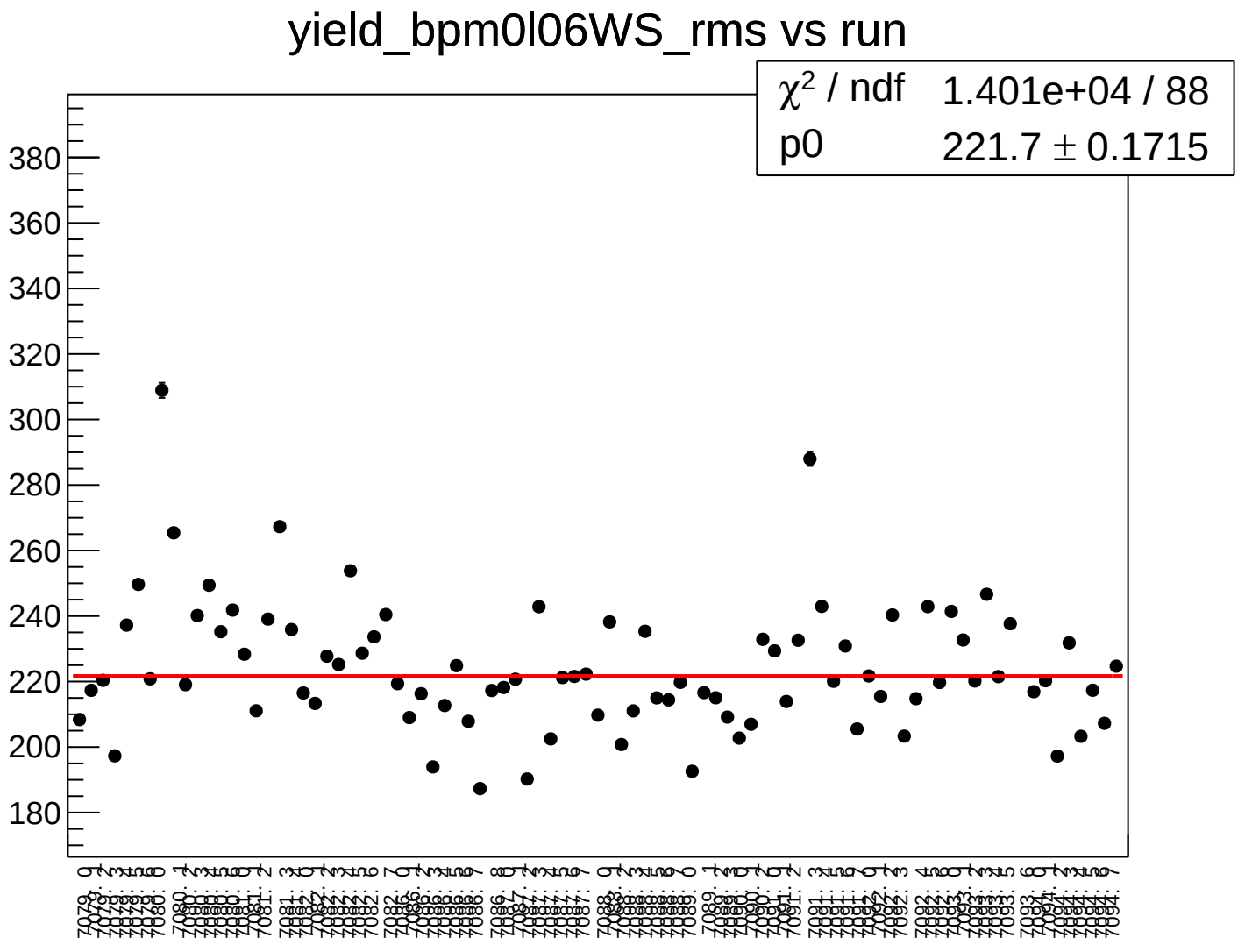

pull1D
Entries 89
Mean 0.9887
Std Dev 3.886
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

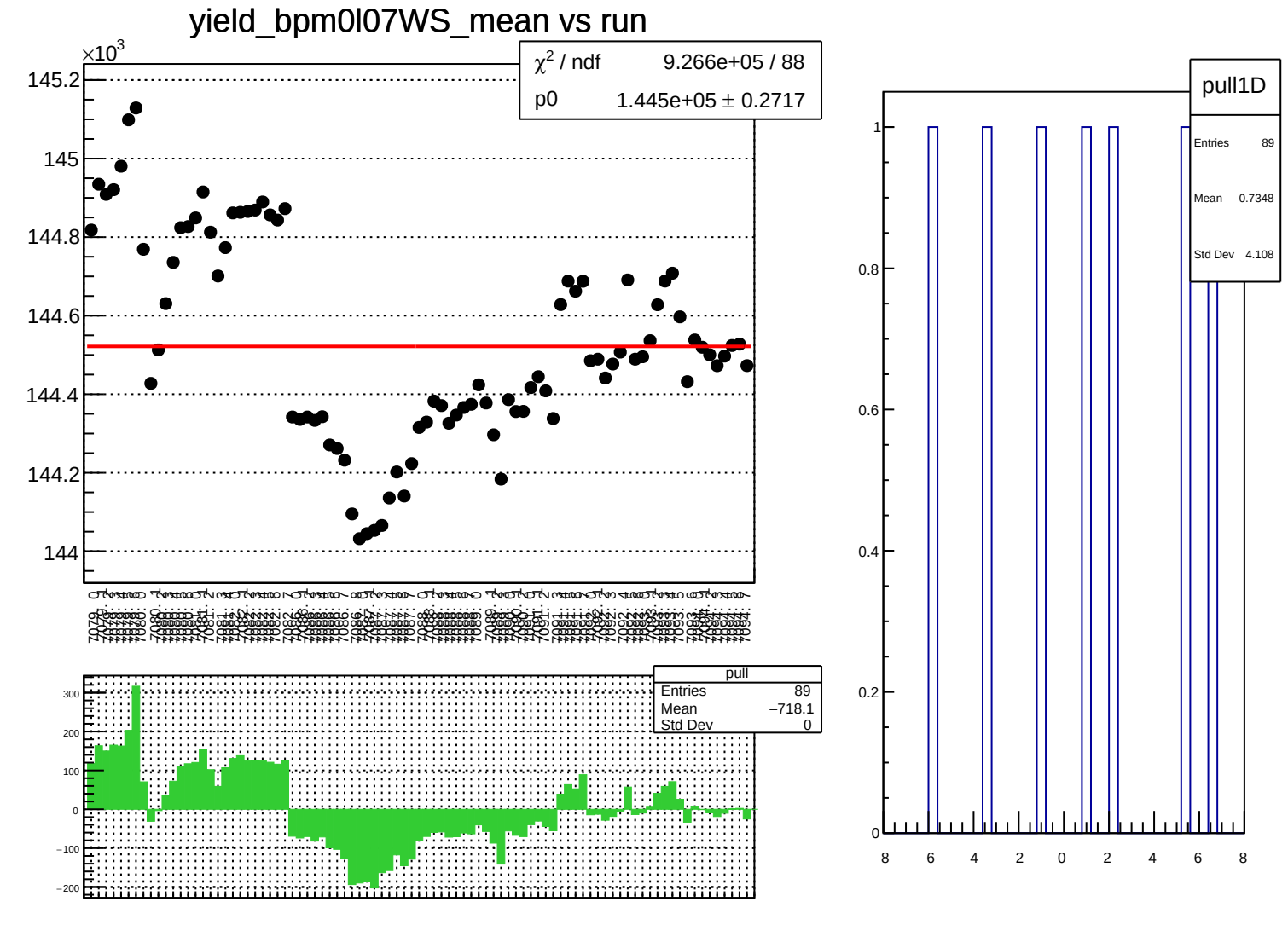

yield_bpm0l04WS_rms vs run
χ² / ndf 1.482e+04 / 88
p0 229.4 ± 0.1775
360
340
320
300
280
260
240
220
200
180

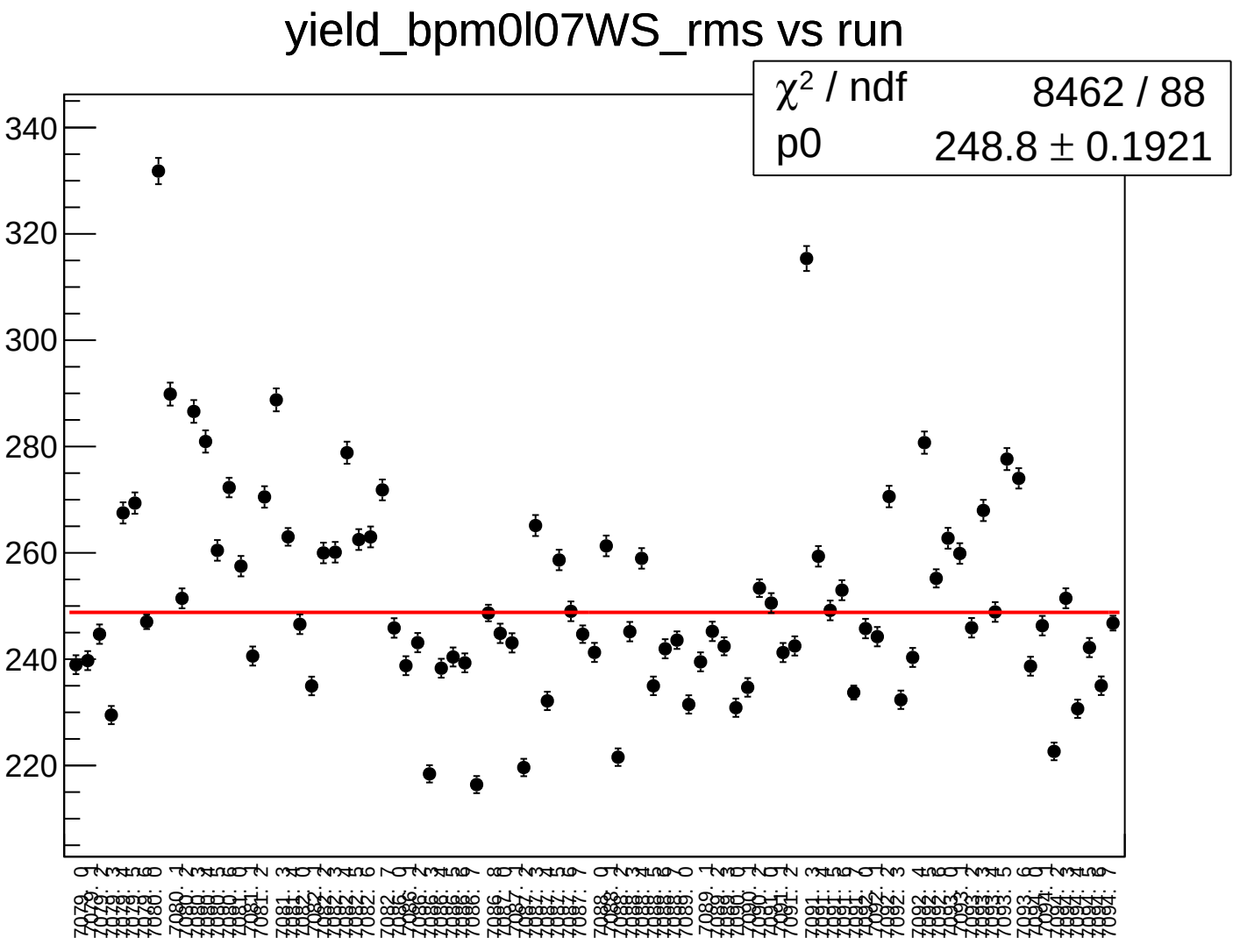

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 4.685e+05 / 88
p0 1.305e+05 ± 0.2428
131
130.9
130.8
130.7
130.6
130.5
130.4
130.3
130.2
pull
Entries 89
Mean 801.1
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 89
Mean 0.5705
Std Dev 4.025
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

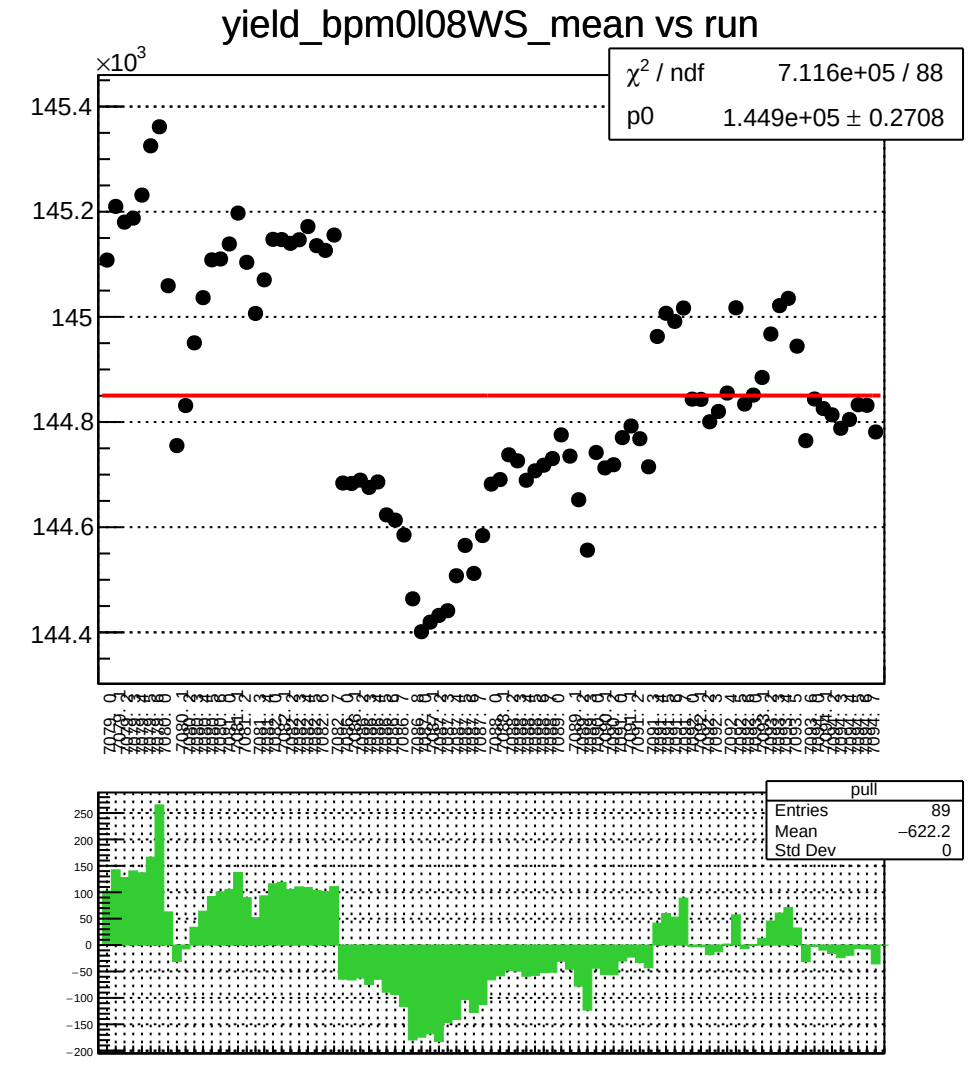

yield_bpm0l05WS_rms vs run
χ² / ndf 1.177e+04 / 88
p0 222.1 ± 0.1717
320
300
280
260
240
220
200
180

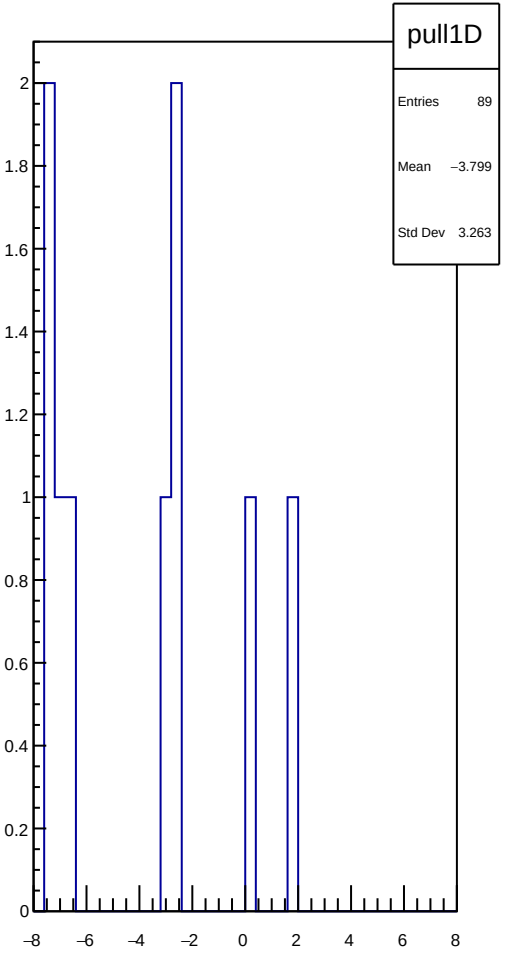

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.342e+06 / 88
p0 1.285e+05 ± 0.2425
129
128.8
128.6
128.4
128.2
128
127.8
pull
Entries 89
Mean 5372
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 89
Mean 1.749
Std Dev 6.076
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

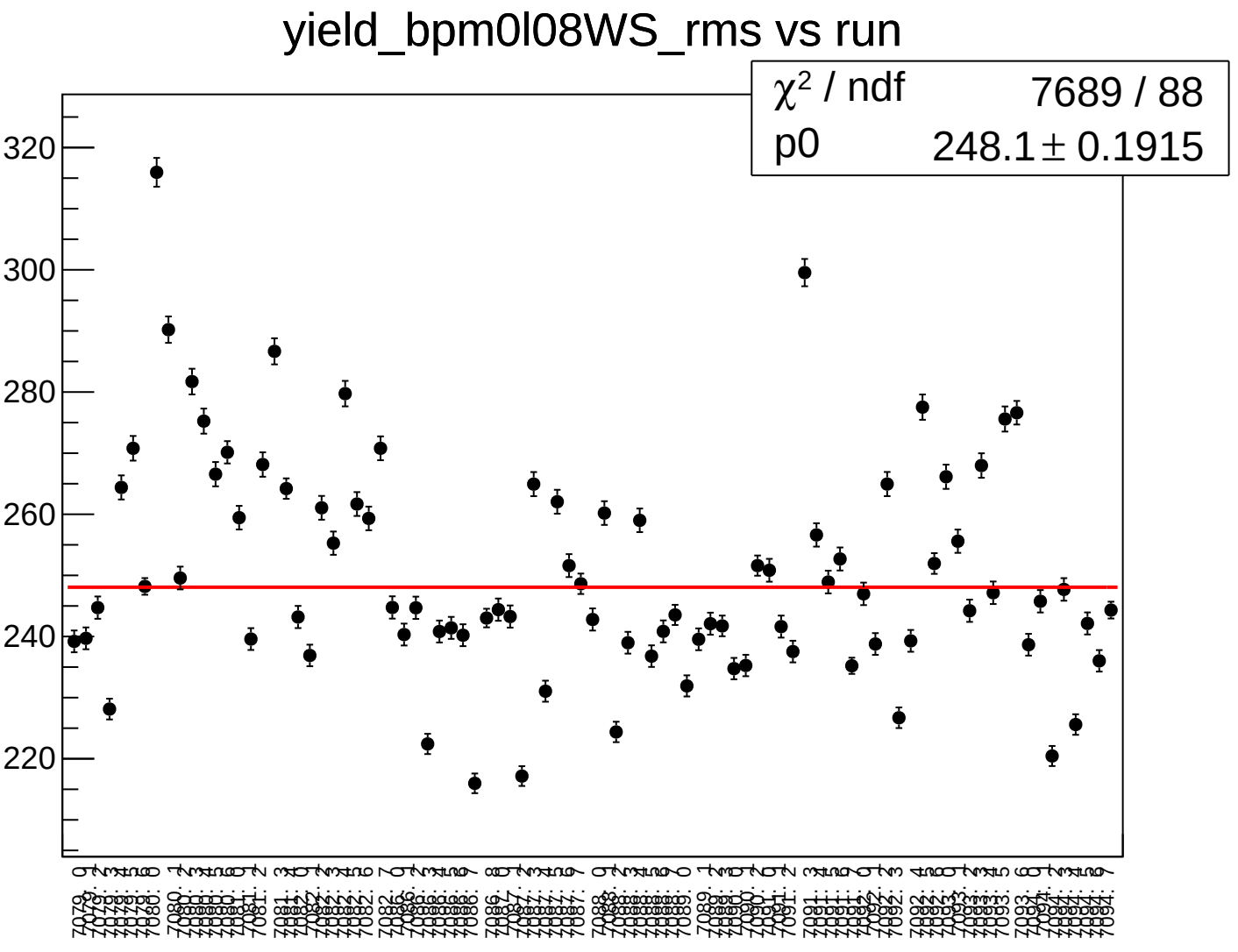

yield_bpm0l06WS_rms vs run
χ² / ndf 1.401e+04 / 88
p0 221.7 ± 0.1715
380
360
340
320
300
280
260
240
220
200
180

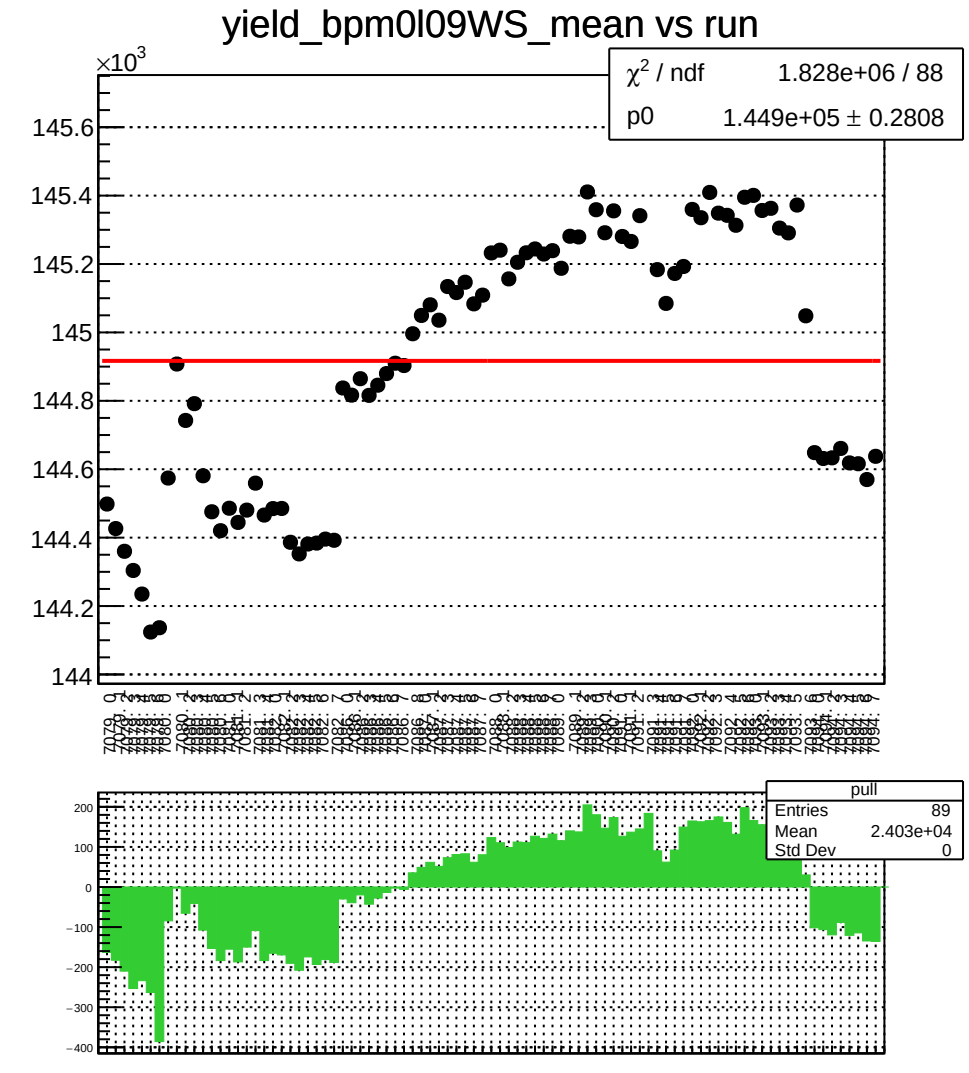

yield_bpm0l07WS_mean vs run
×10^3
145.2
145
144.8
144.6
144.4
144.2
144
χ² / ndf 9.266e+05 / 88
p0 1.445e+05 ± 0.2717
pull
Entries 89
Mean −718.1
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 89
Mean 0.7348
Std Dev 4.108
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

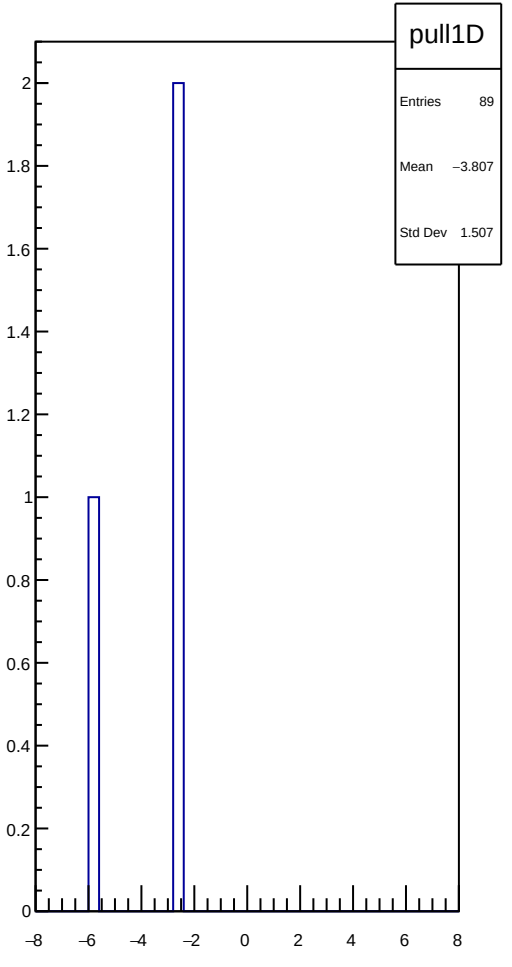

yield_bpm0l07WS_rms vs run
χ² / ndf 8462 / 88
p0 248.8 ± 0.1921
340
320
300
280
260
240
220

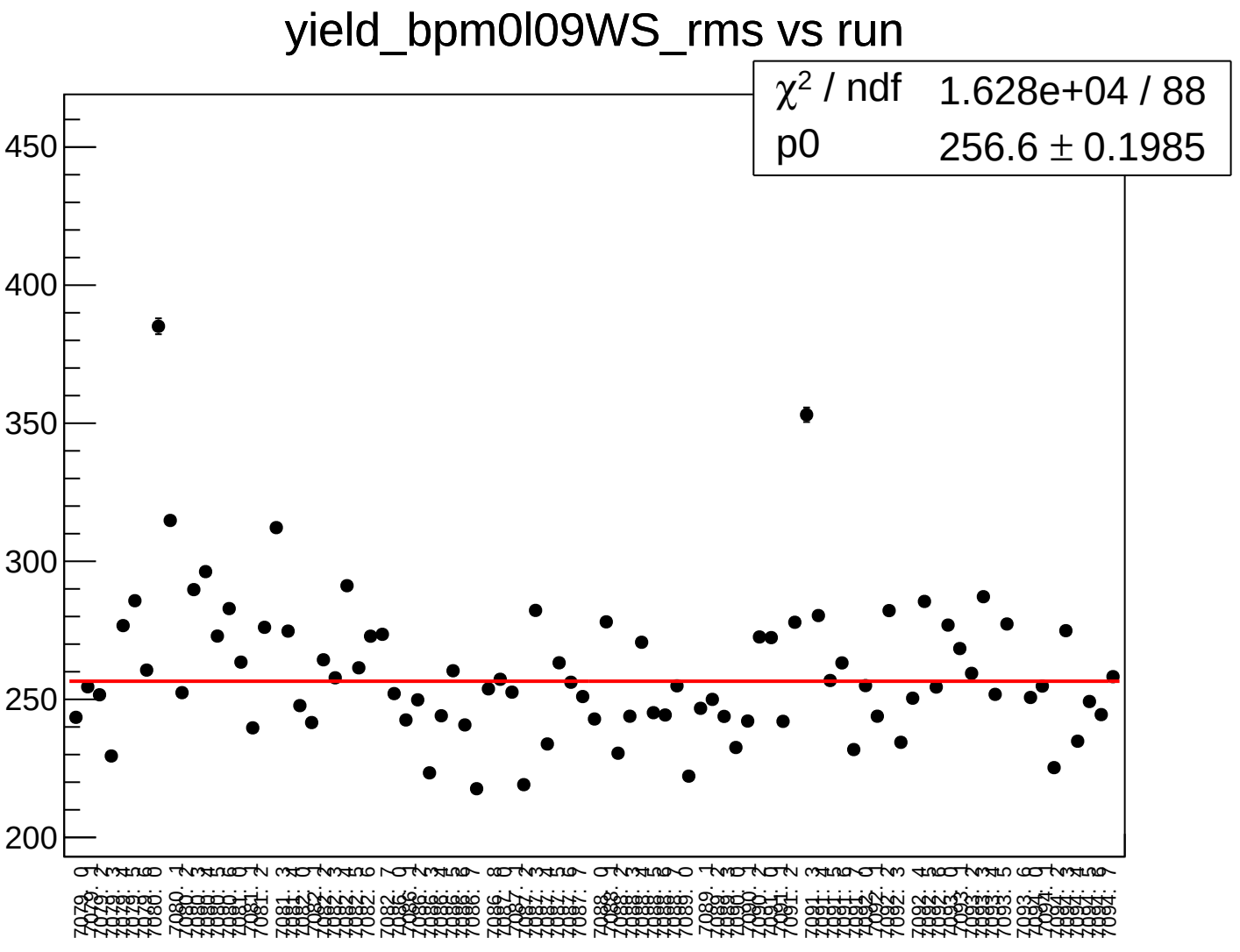

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 7.116e+05 / 88
p0 1.449e+05 ± 0.2708
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 89
Mean −622.2
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

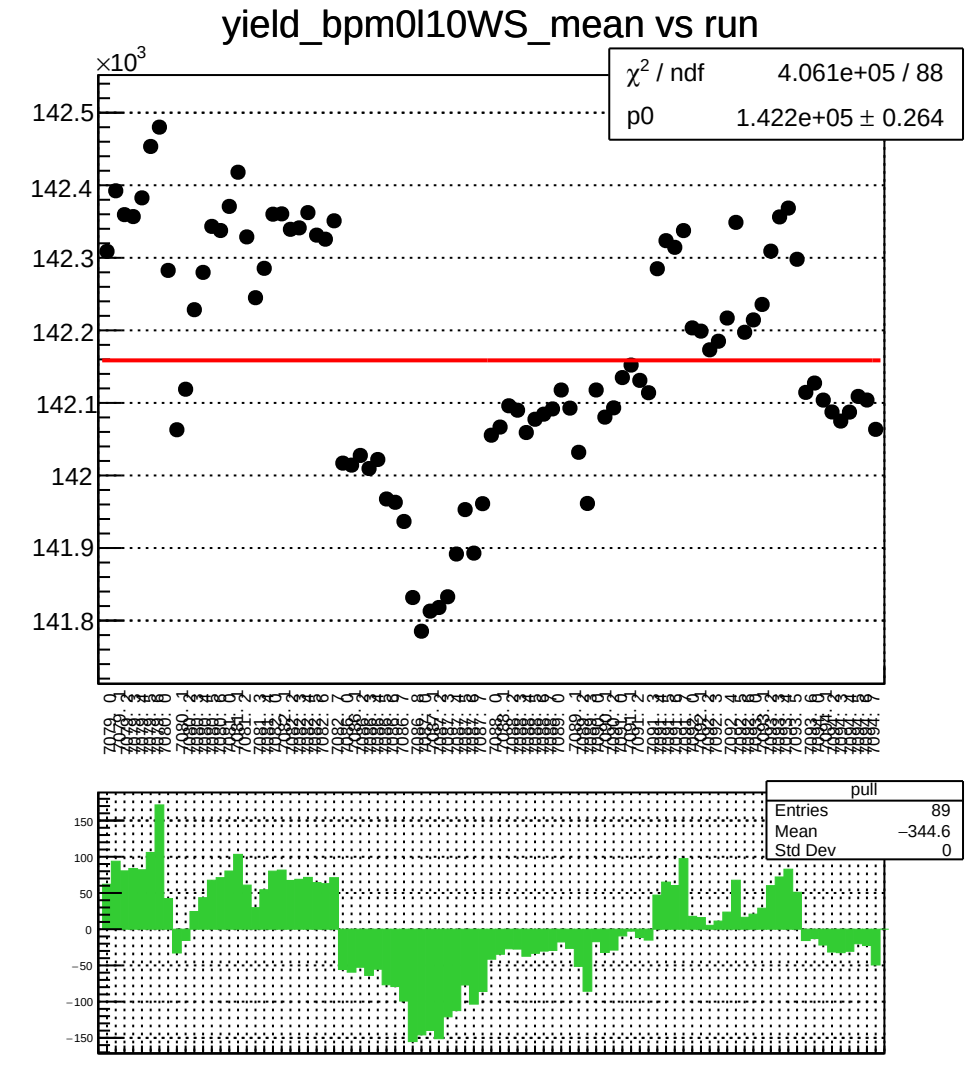

pull1D
Entries 89
Mean −3.799
Std Dev 3.263
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

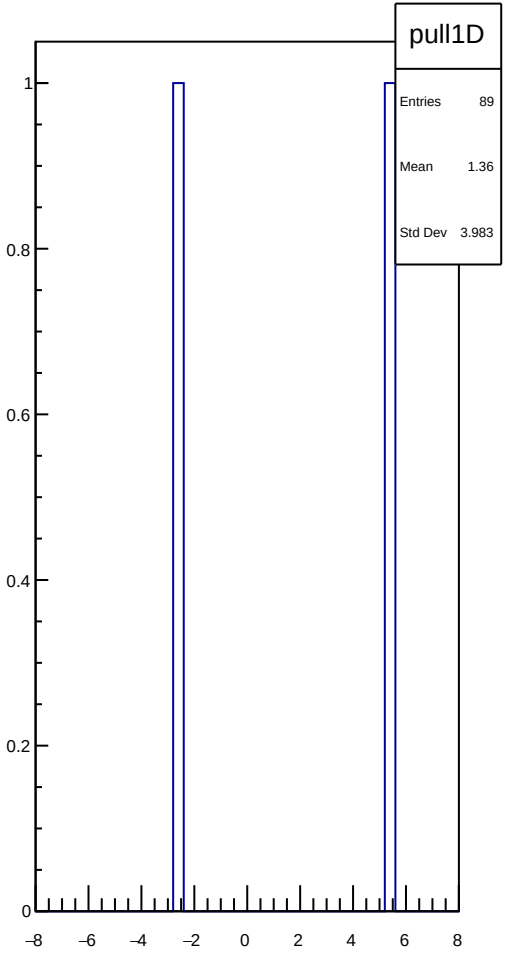

yield_bpm0l08WS_rms vs run
χ² / ndf 7689 / 88
p0 248.1 ± 0.1915
320
300
280
260
240
220

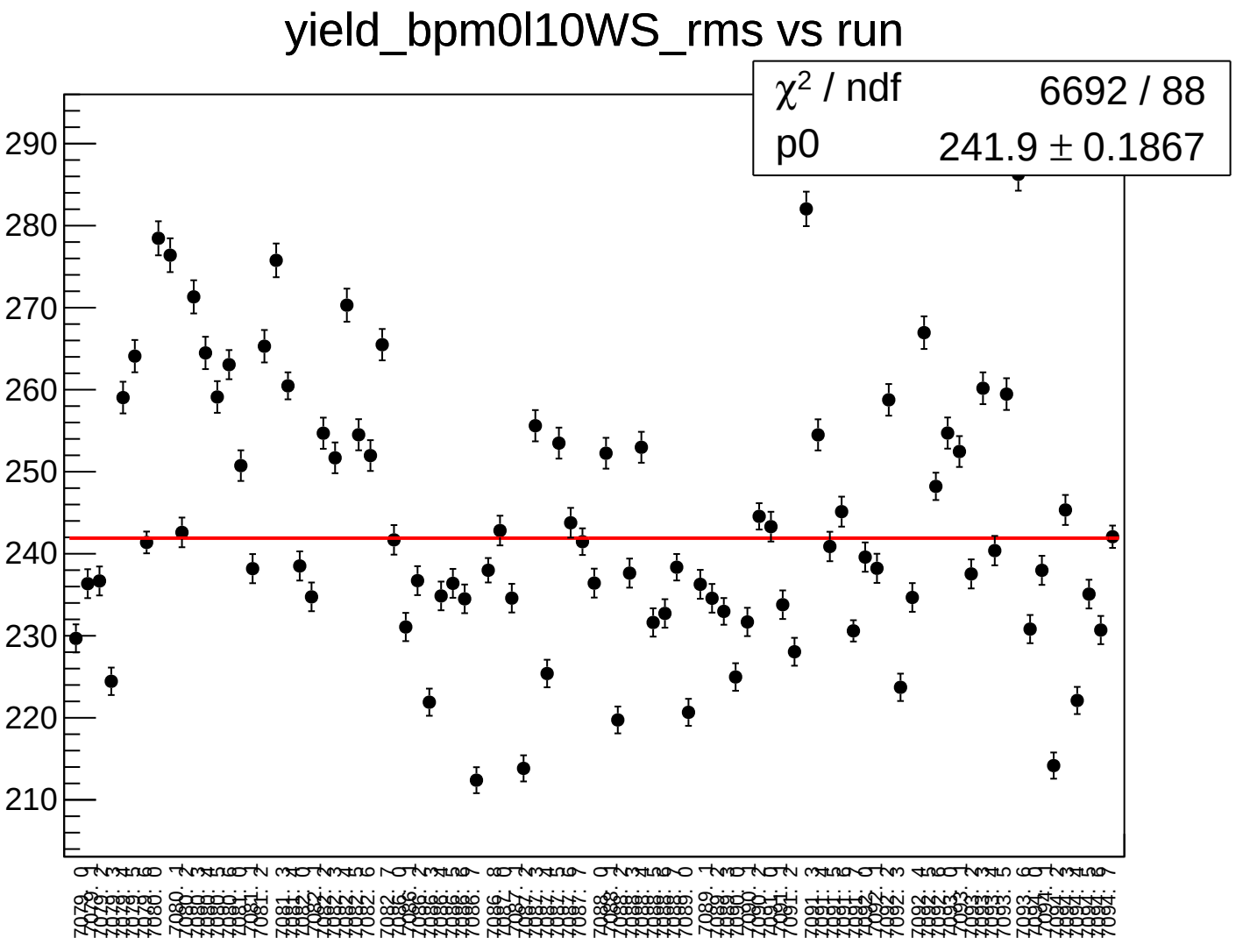

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.828e+06 / 88
p0 1.449e+05 ± 0.2808
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 89
Mean 2.403e+04
Std Dev 0
200
100
0
−100
−200
−300
−400

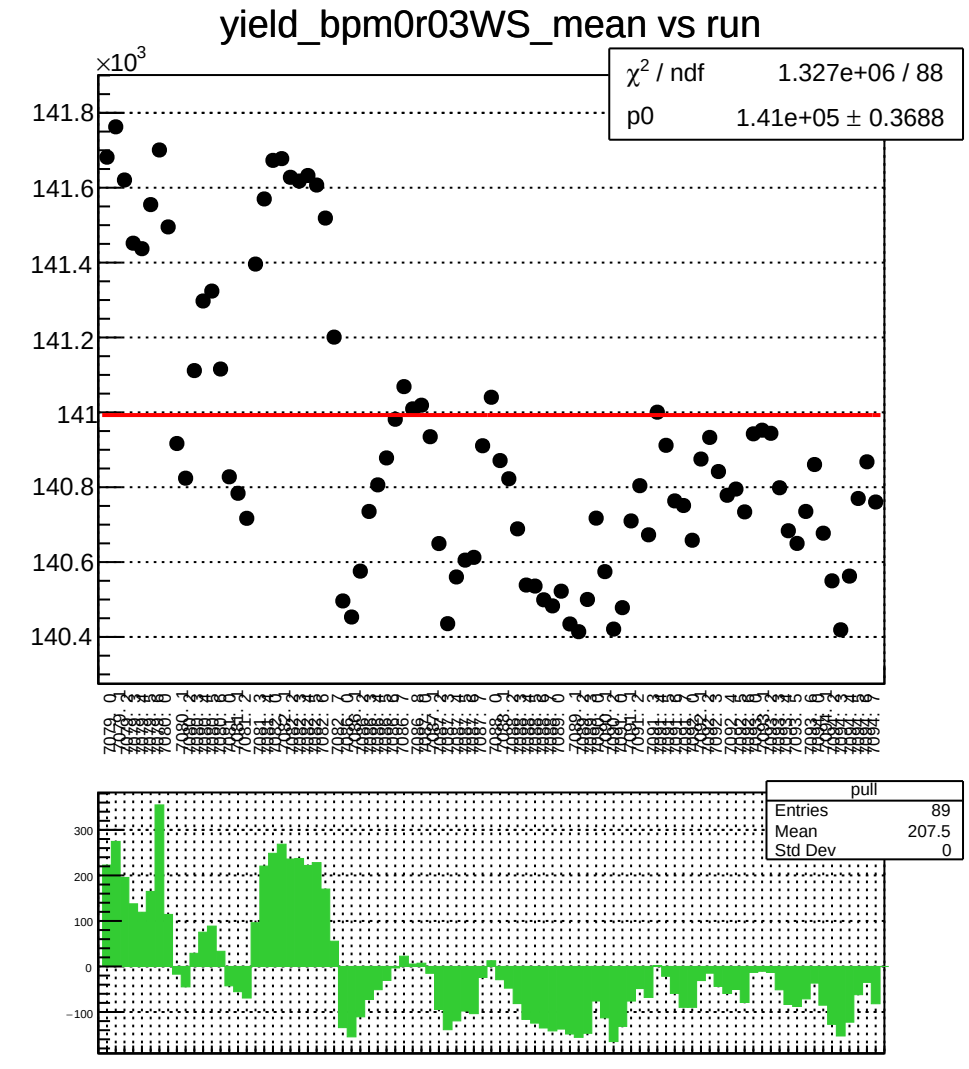

pull1D
Entries 89
Mean −3.807
Std Dev 1.507
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

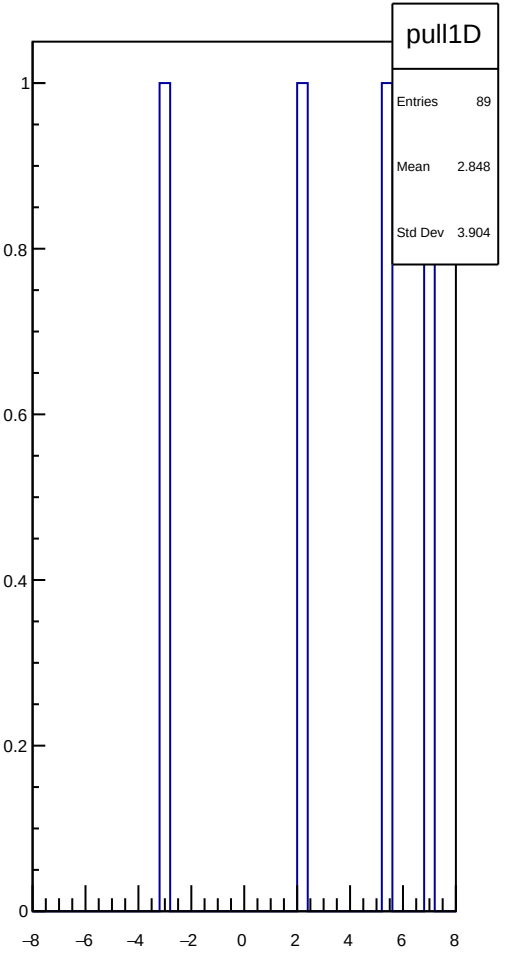

yield_bpm0l09WS_rms vs run
χ² / ndf 1.628e+04 / 88
p0 256.6 ± 0.1985
450
400
350
300
250
200

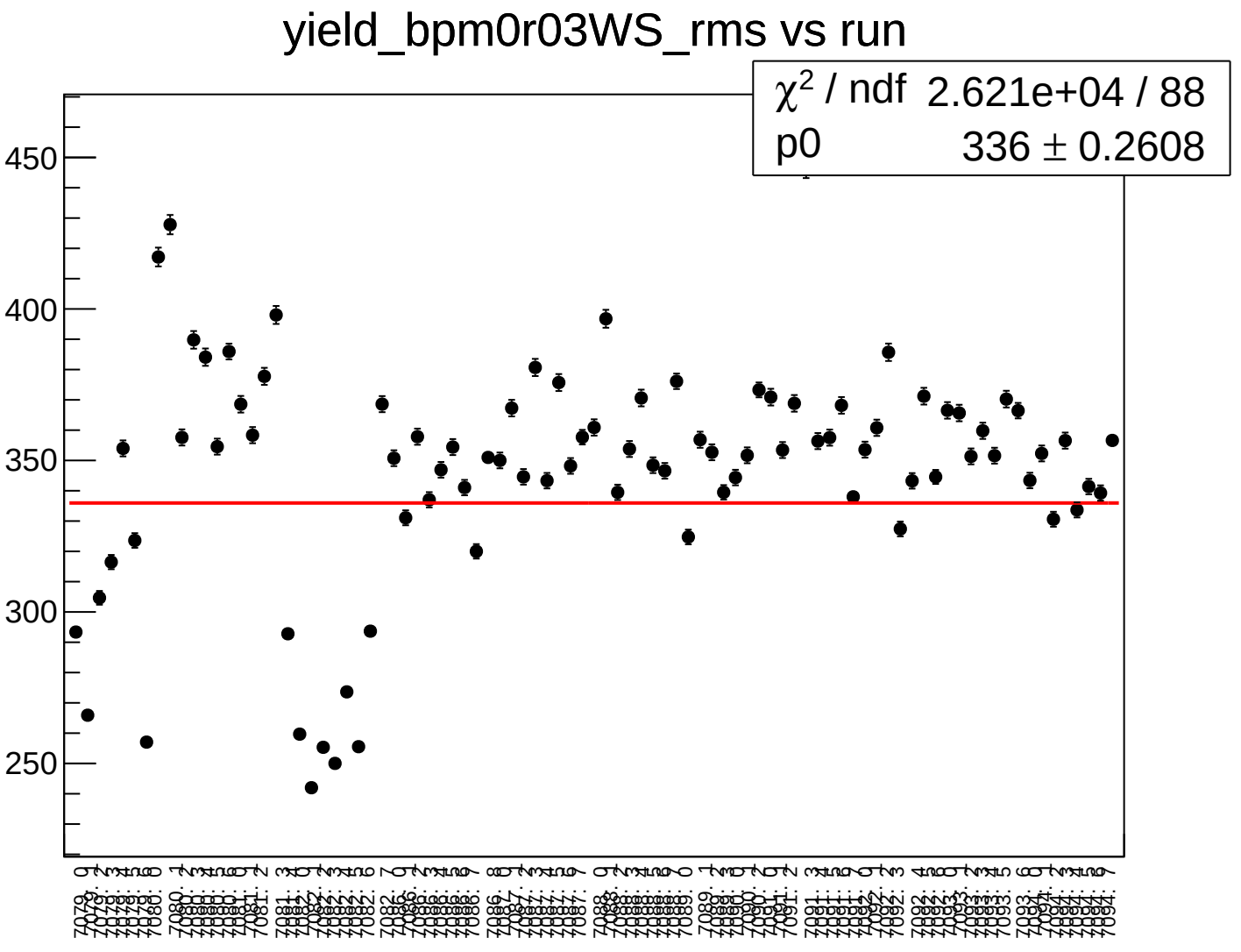

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 4.061e+05 / 88
p0 1.422e+05 ± 0.264
142.5
142.4
142.3
142.2
142.1
142
141.9
141.8
pull
Entries 89
Mean −344.6
Std Dev 0
150
100
50
0
−50
−100
−150

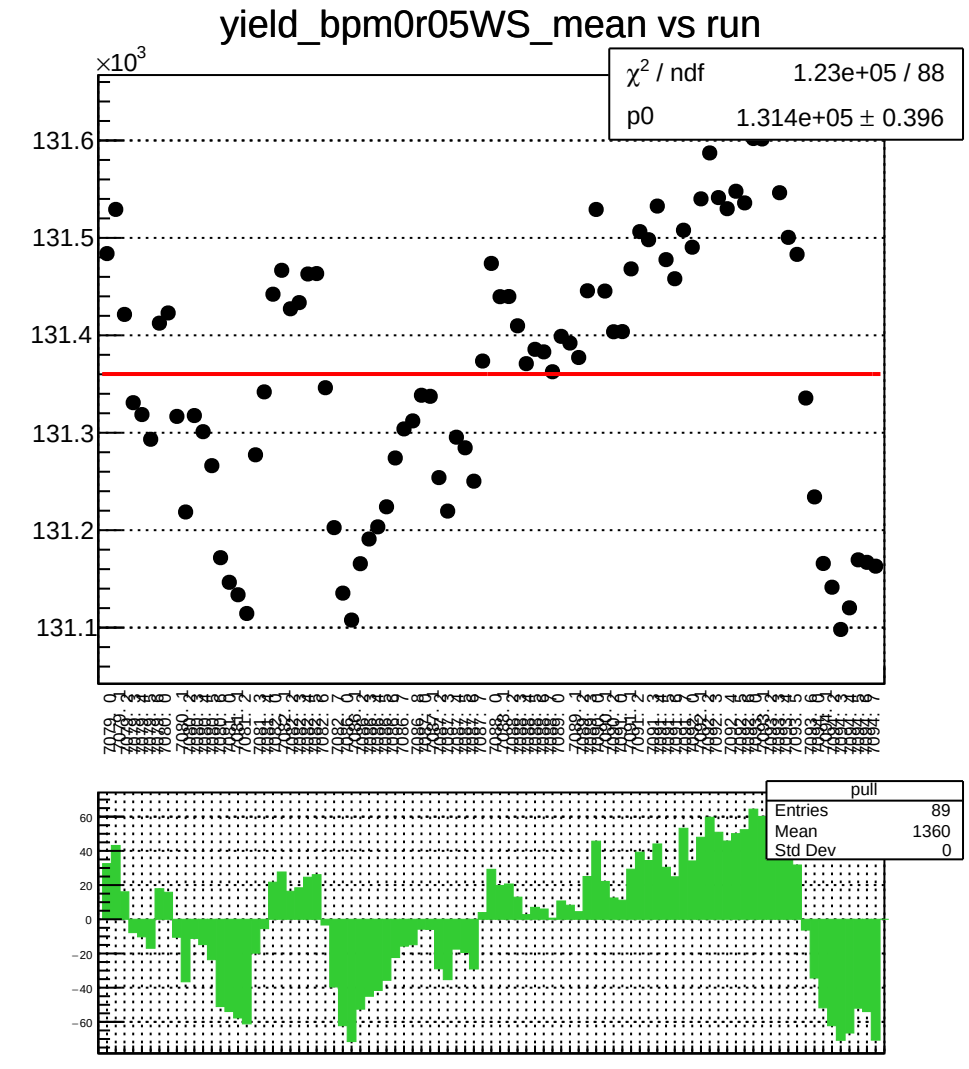

pull1D
Entries 89
Mean 1.36
Std Dev 3.983
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

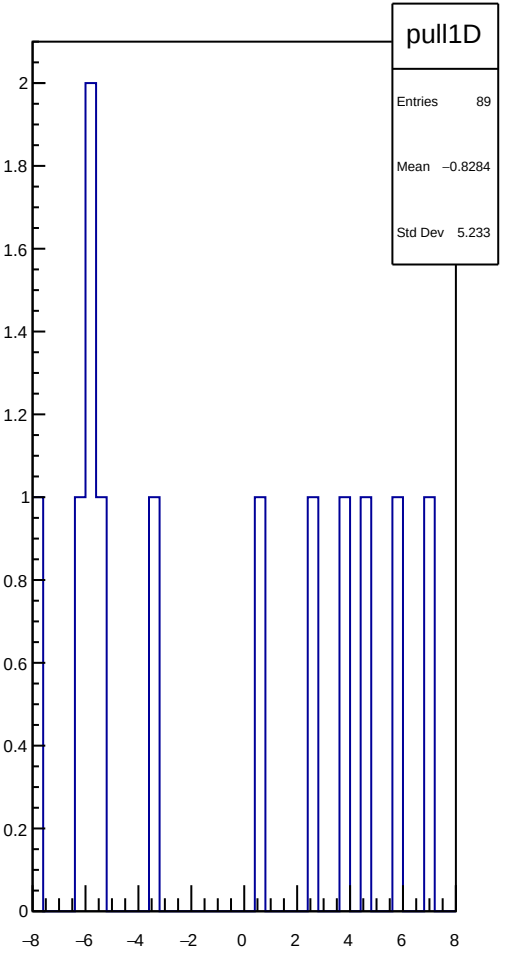

yield_bpm0l10WS_rms vs run
χ² / ndf 6692 / 88
p0 241.9 ± 0.1867
290
280
270
260
250
240
230
220
210

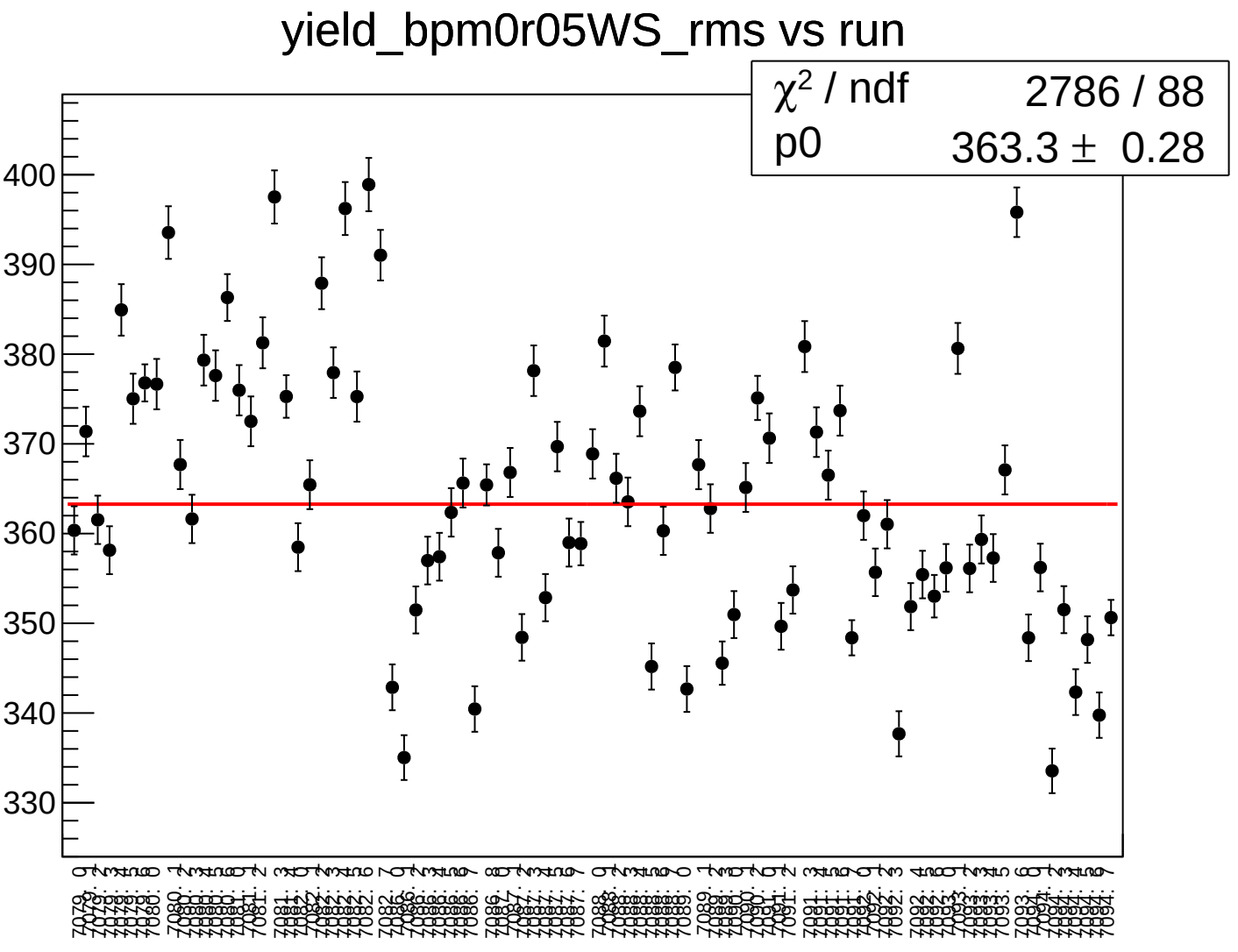

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.327e+06 / 88
p0 1.41e+05 ± 0.3688
141.8
141.6
141.4
141.2
141
140.8
140.6
140.4
pull
Entries 89
Mean 207.5
Std Dev 0
300
200
100
0
−100

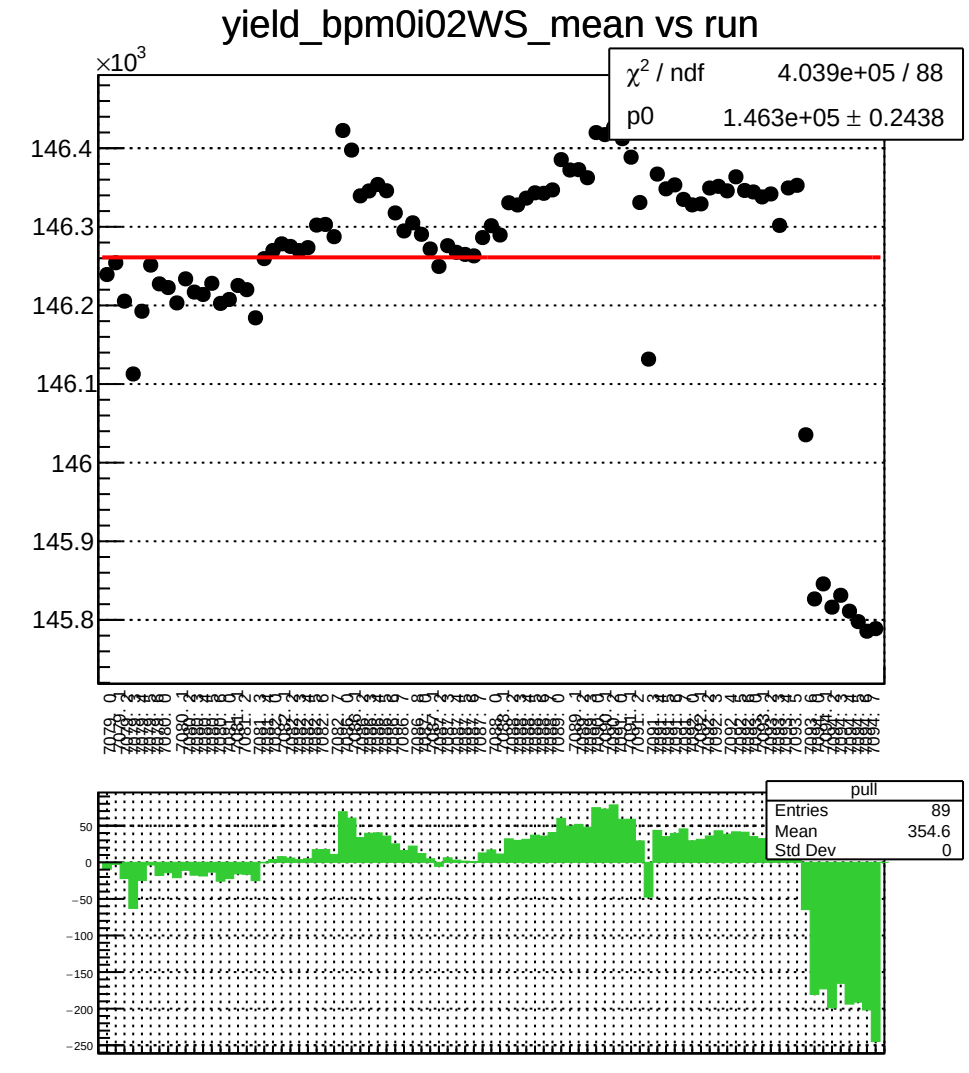

pull1D
Entries 89
Mean 2.848
Std Dev 3.904
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

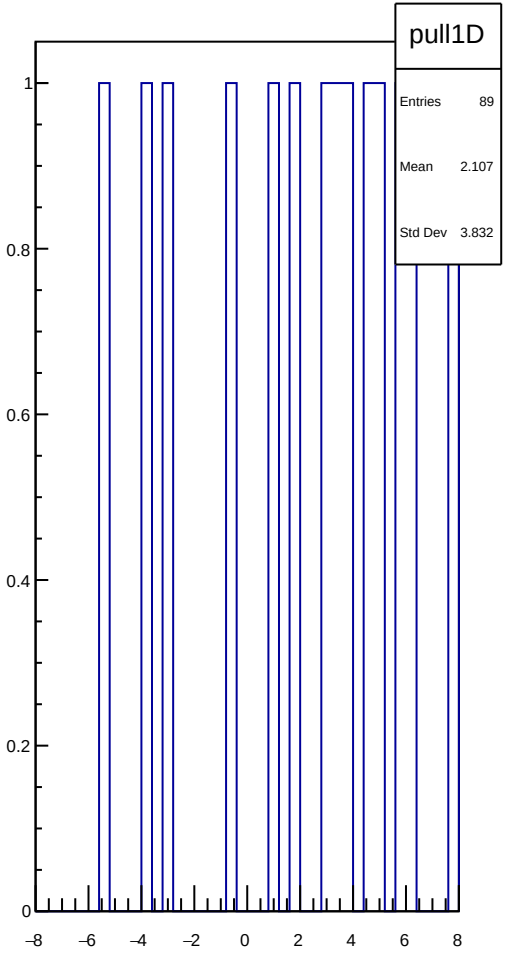

yield_bpm0r03WS_rms vs run
χ² / ndf 2.621e+04 / 88
p0 336 ± 0.2608
450
400
350
300
250

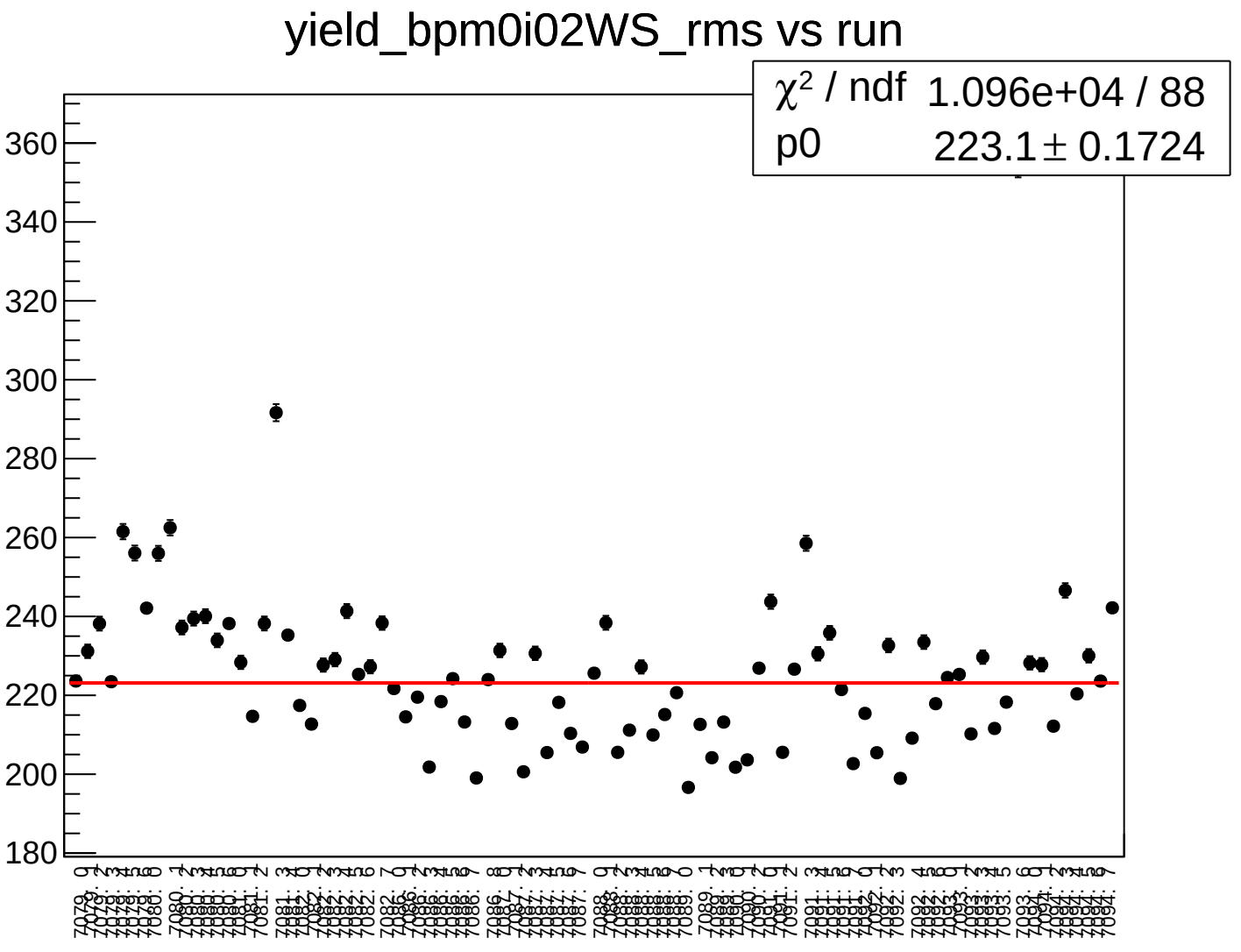

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.23e+05 / 88
p0 1.314e+05 ± 0.396
131.6
131.5
131.4
131.3
131.2
131.1
pull
Entries 89
Mean 1360
Std Dev 0
60
40
20
0
−20
−40
−60

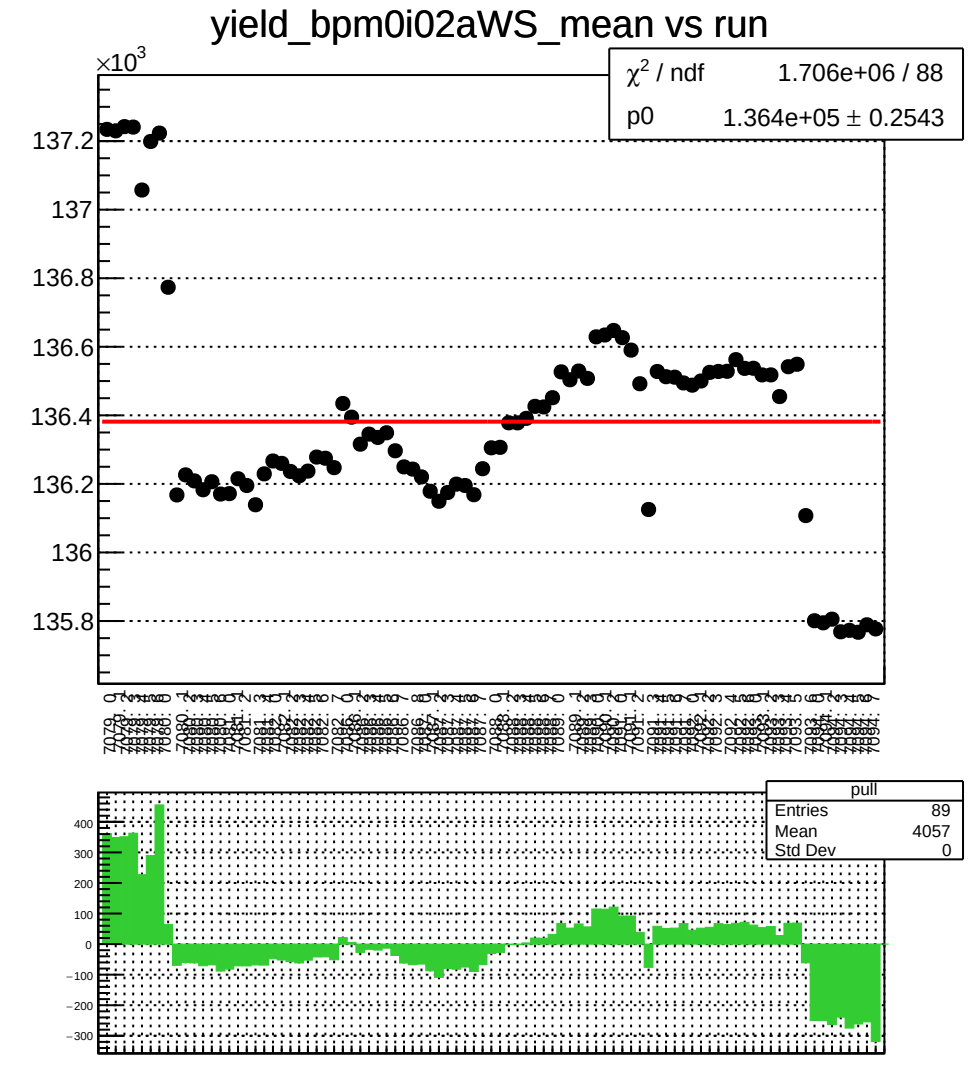

pull1D
Entries 89
Mean −0.8284
Std Dev 5.233
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

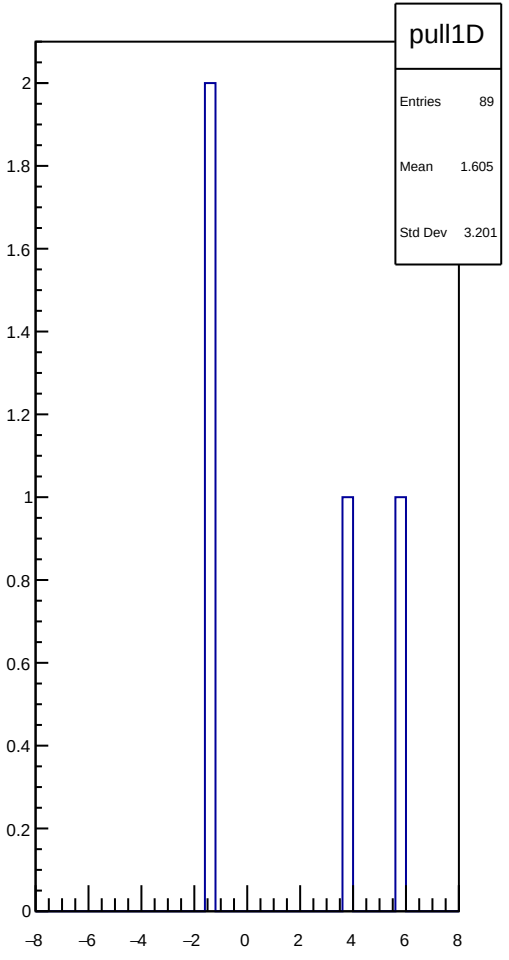

yield_bpm0r05WS_rms vs run
χ² / ndf 2786 / 88
p0 363.3 ± 0.28
400
390
380
370
360
350
340
330

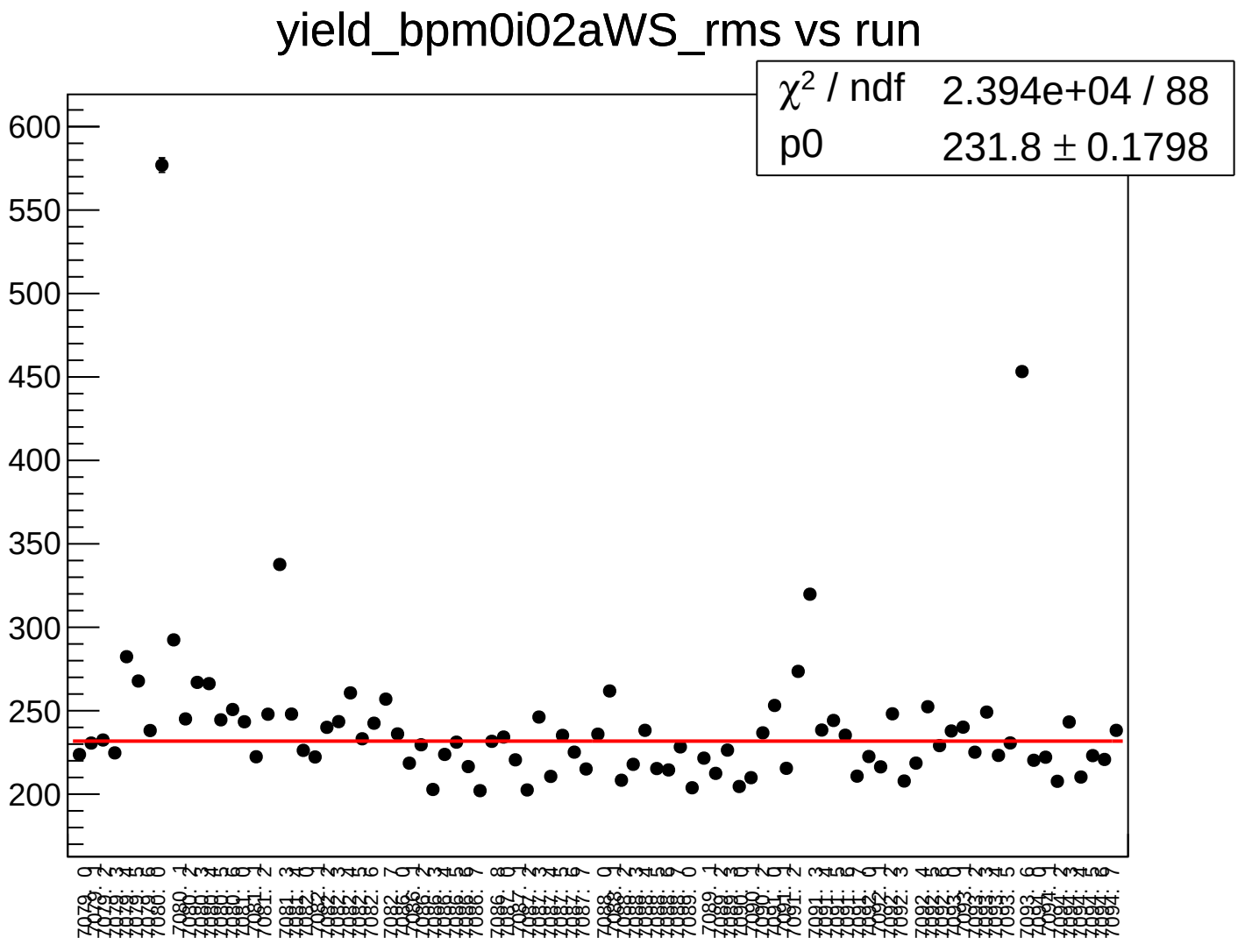

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 4.039e+05 / 88
p0 1.463e+05 ± 0.2438
146.4
146.3
146.2
146.1
146
145.9
145.8
pull
Entries 89
Mean 354.6
Std Dev 0
50
0
−50
−100
−150
−200
−250

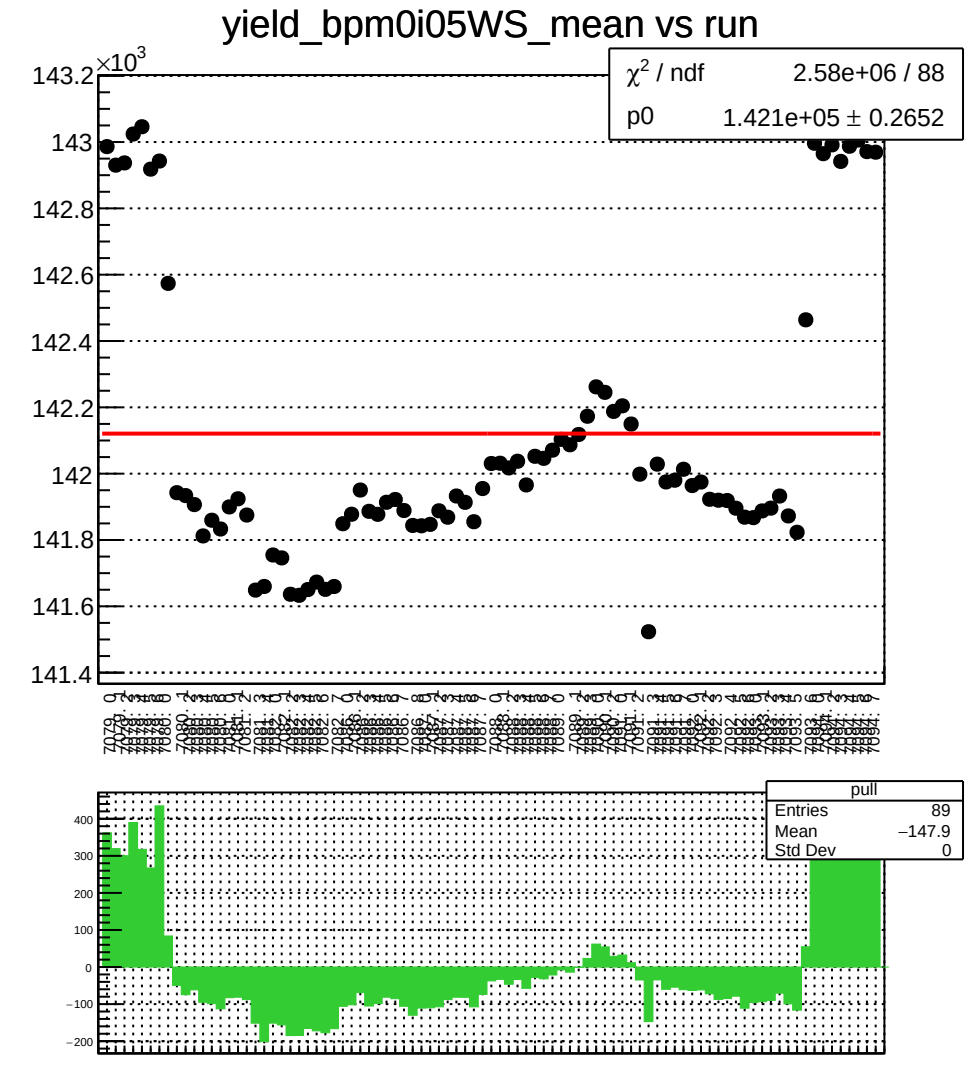

pull1D
Entries 89
Mean 2.107
Std Dev 3.832
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

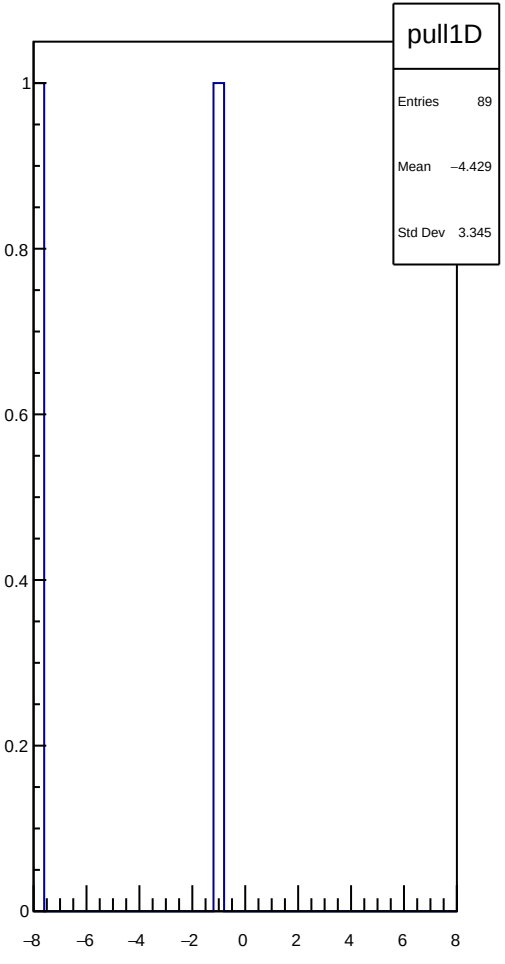

yield_bpm0i02WS_rms vs run
χ² / ndf 1.096e+04 / 88
p0 223.1 ± 0.1724
360
340
320
300
280
260
240
220
200
180

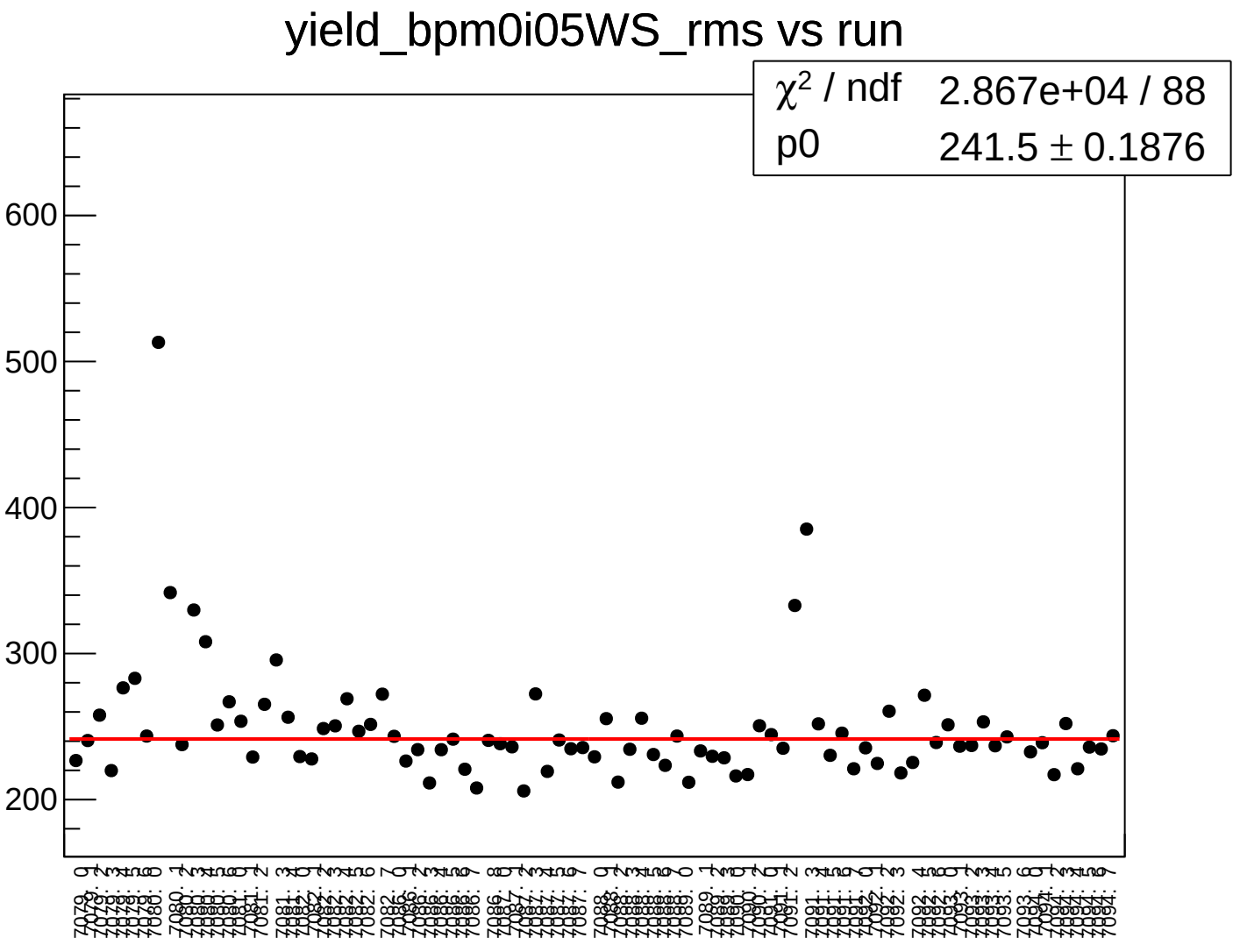

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.706e+06 / 88
p0 1.364e+05 ± 0.2543
137.2
137
136.8
136.6
136.4
136.2
136
135.8
pull
Entries 89
Mean 4057
Std Dev 0
400
300
200
100
0
−100
−200
−300

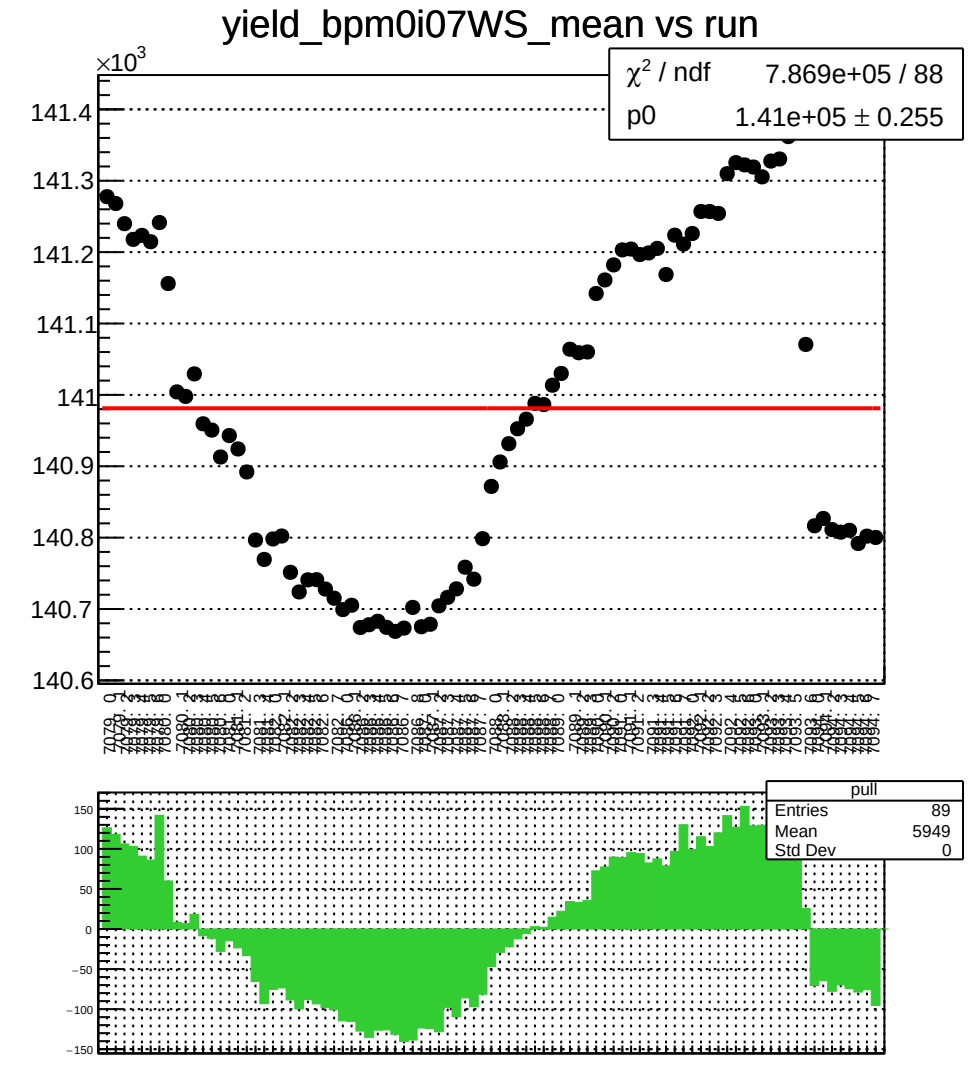

pull1D
Entries 89
Mean 1.605
Std Dev 3.201
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

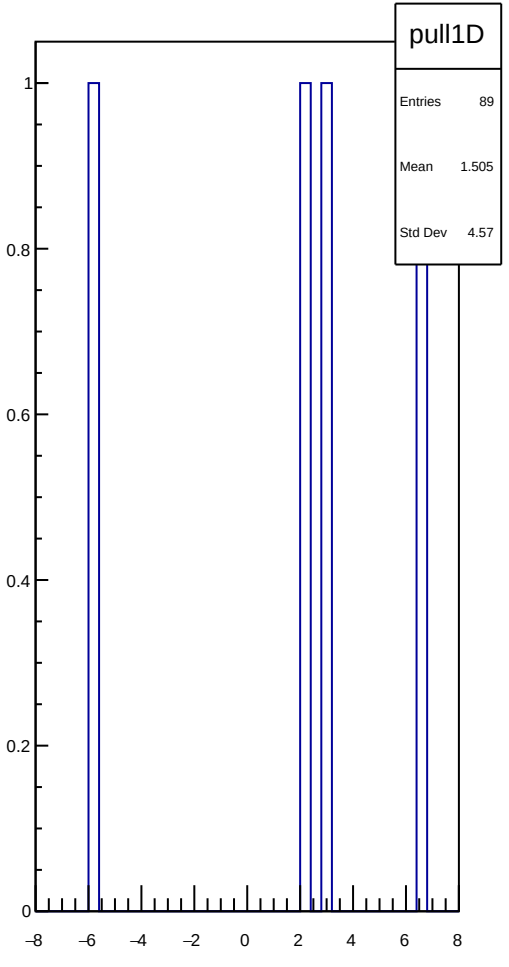

yield_bpm0i02aWS_rms vs run
χ² / ndf 2.394e+04 / 88
p0 231.8 ± 0.1798
600
550
500
450
400
350
300
250
200

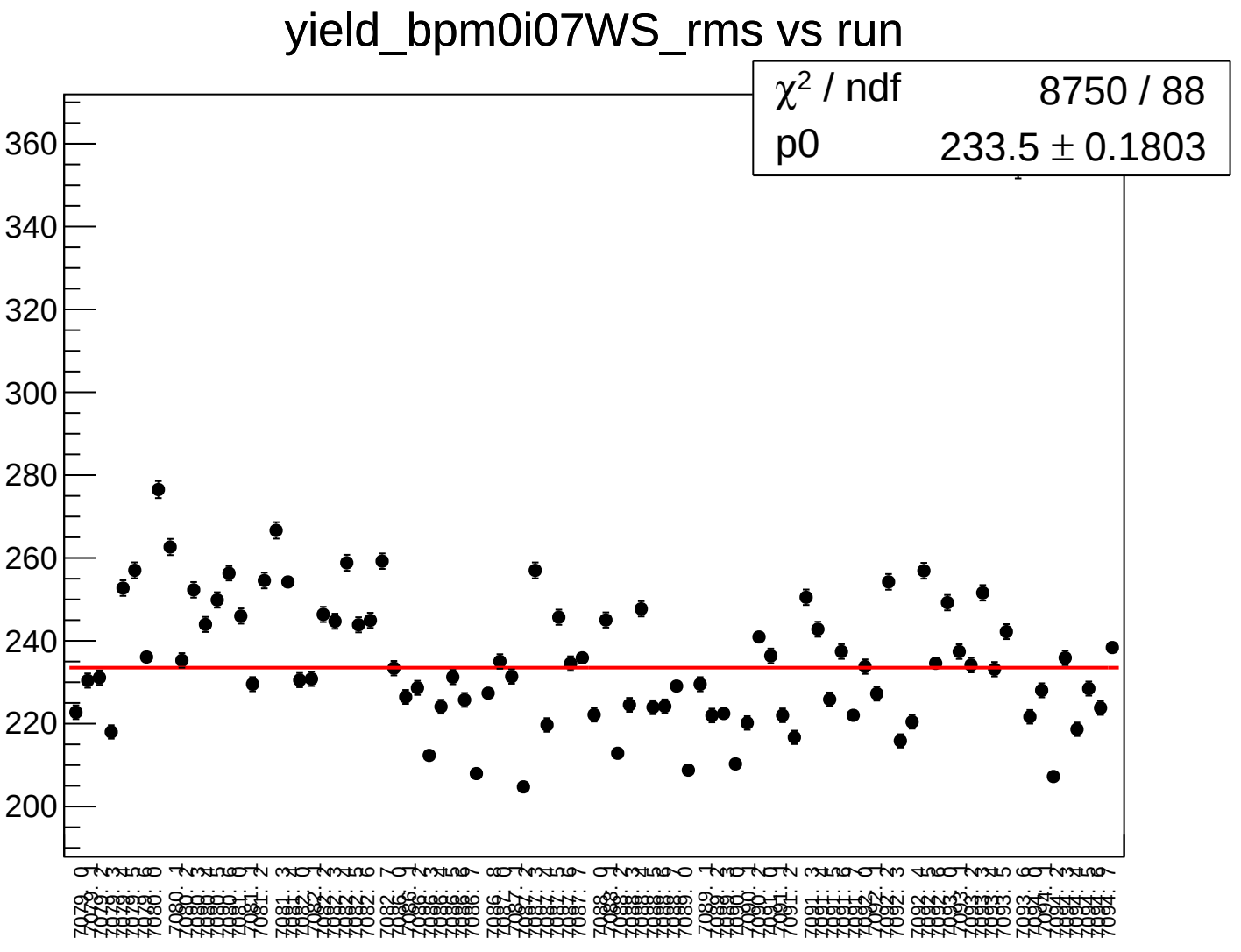

yield_bpm0i05WS_mean vs run
χ² / ndf 2.58e+06 / 88
p0 1.421e+05 ± 0.2652
×10³
143.2
143
142.8
142.6
142.4
142.2
142
141.8
141.6
141.4
pull
Entries 89
Mean −147.9
Std Dev 0
400
300
200
100
0
−100
−200

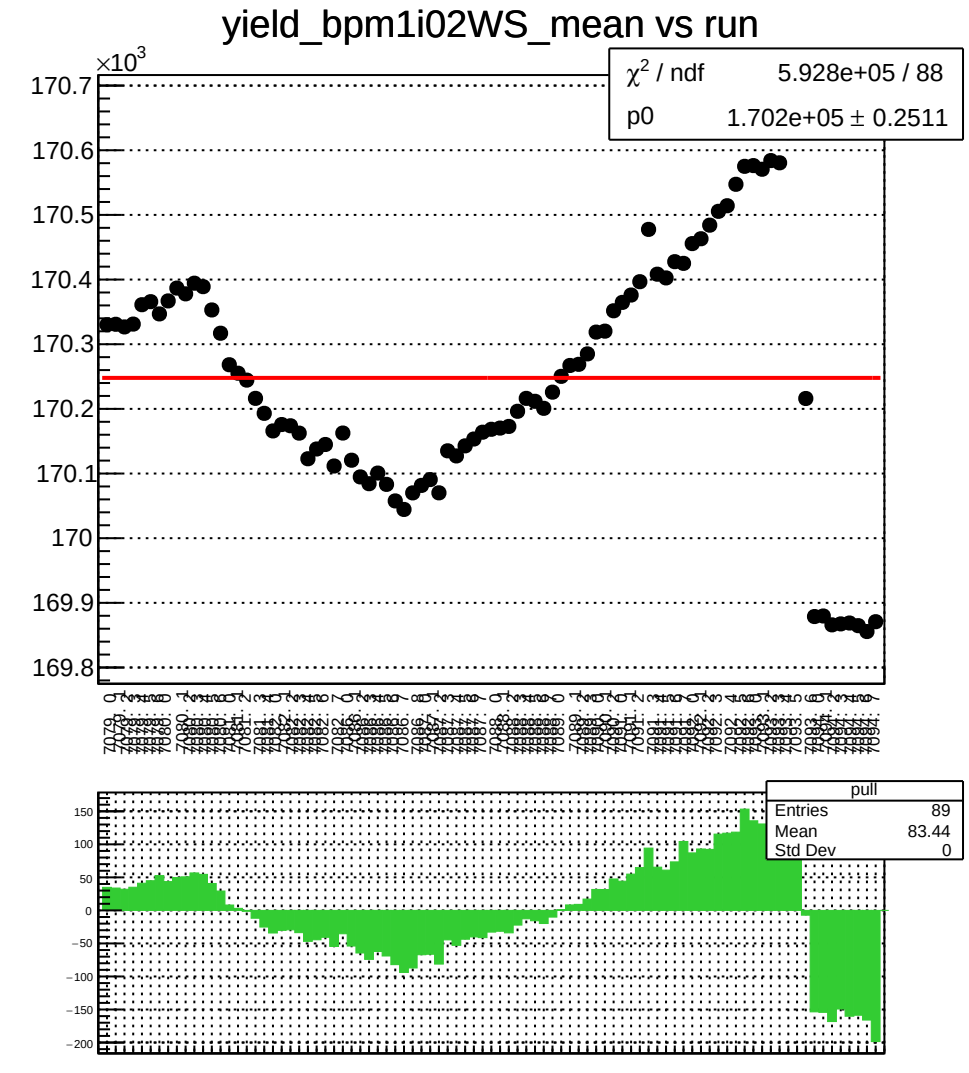

pull1D
Entries 89
Mean −4.429
Std Dev 3.345
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

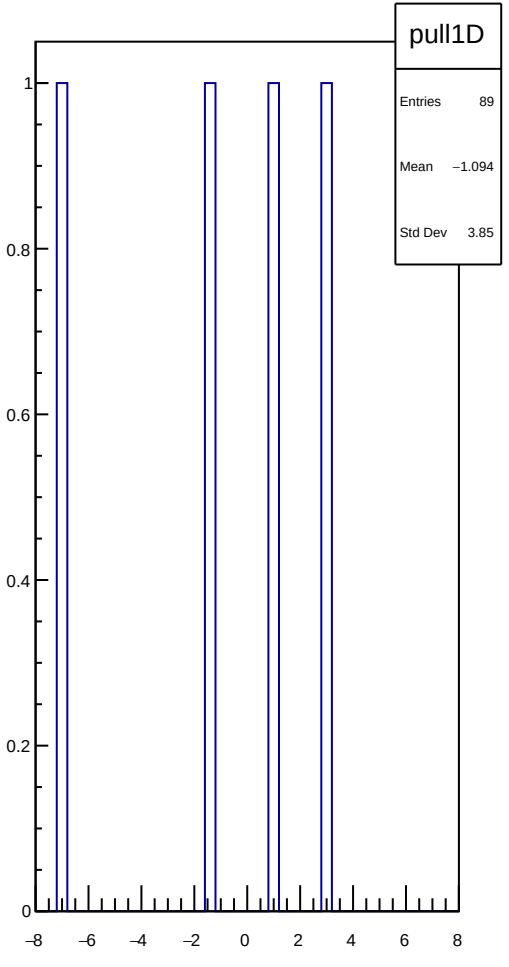

yield_bpm0i05WS_rms vs run
χ² / ndf 2.867e+04 / 88
p0 241.5 ± 0.1876
600
500
400
300
200

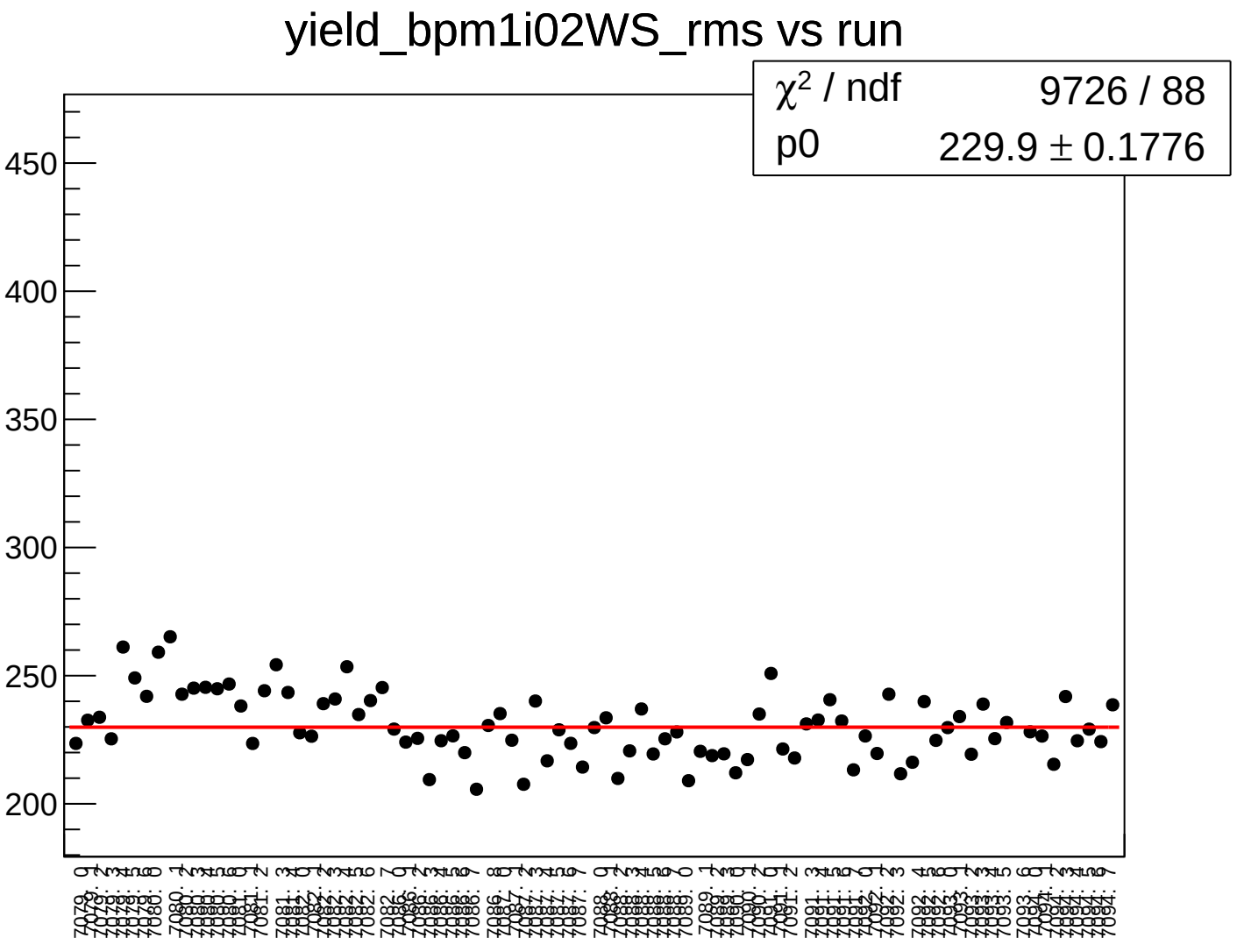

yield_bpm0i07WS_mean vs run
χ² / ndf 7.869e+05 / 88
p0 1.41e+05 ± 0.255
×10³
141.4
141.3
141.2
141.1
141
140.9
140.8
140.7
140.6
pull
Entries 89
Mean 5949
Std Dev 0
150
100
50
0
−50
−100
−150

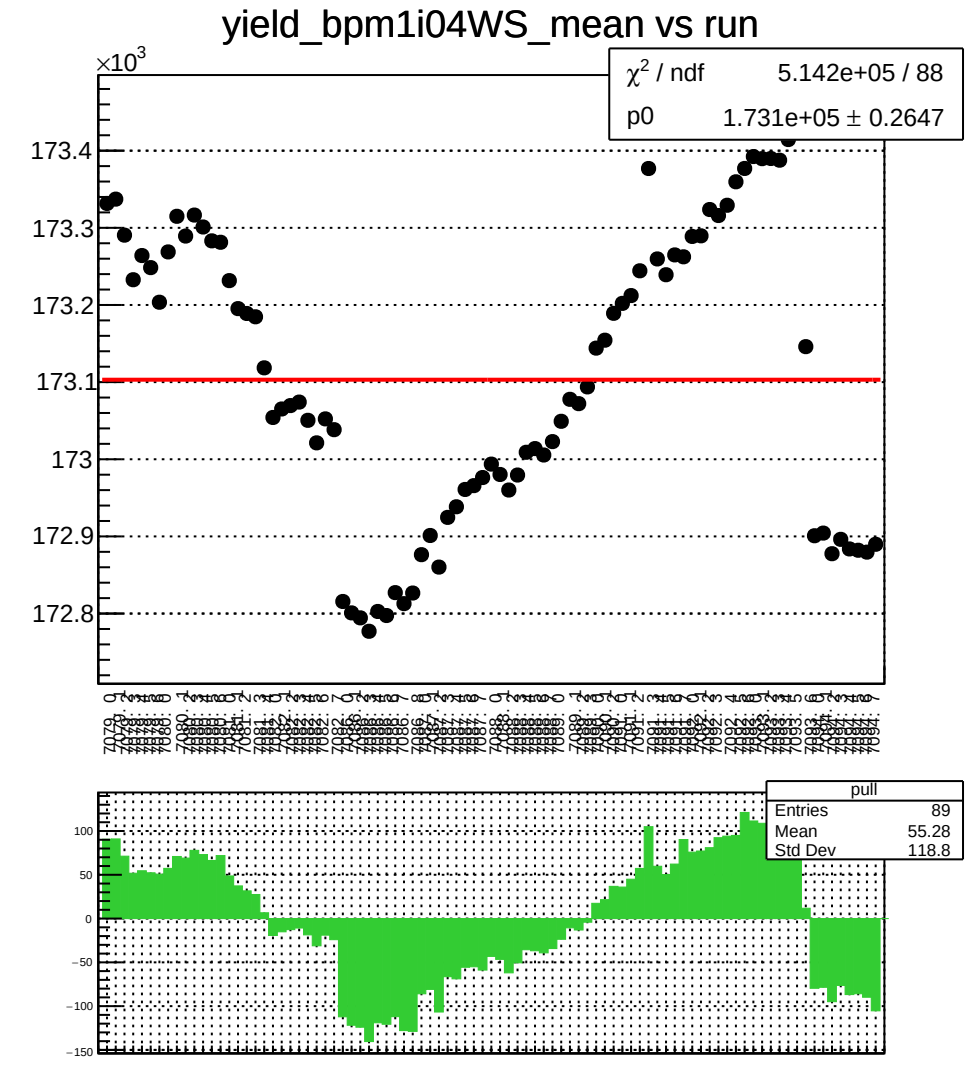

pull1D
Entries 89
Mean 1.505
Std Dev 4.57
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

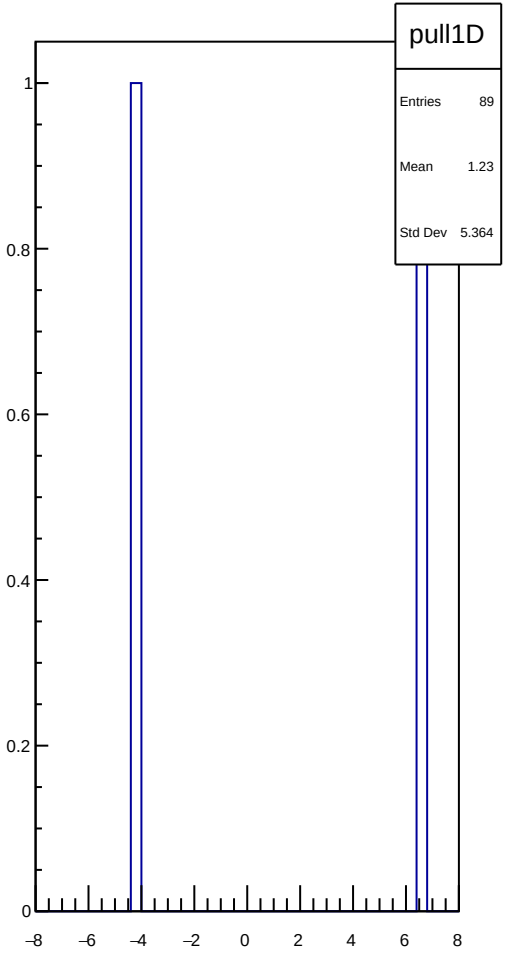

yield_bpm0i07WS_rms vs run
χ² / ndf 8750 / 88
p0 233.5 ± 0.1803
360
340
320
300
280
260
240
220
200

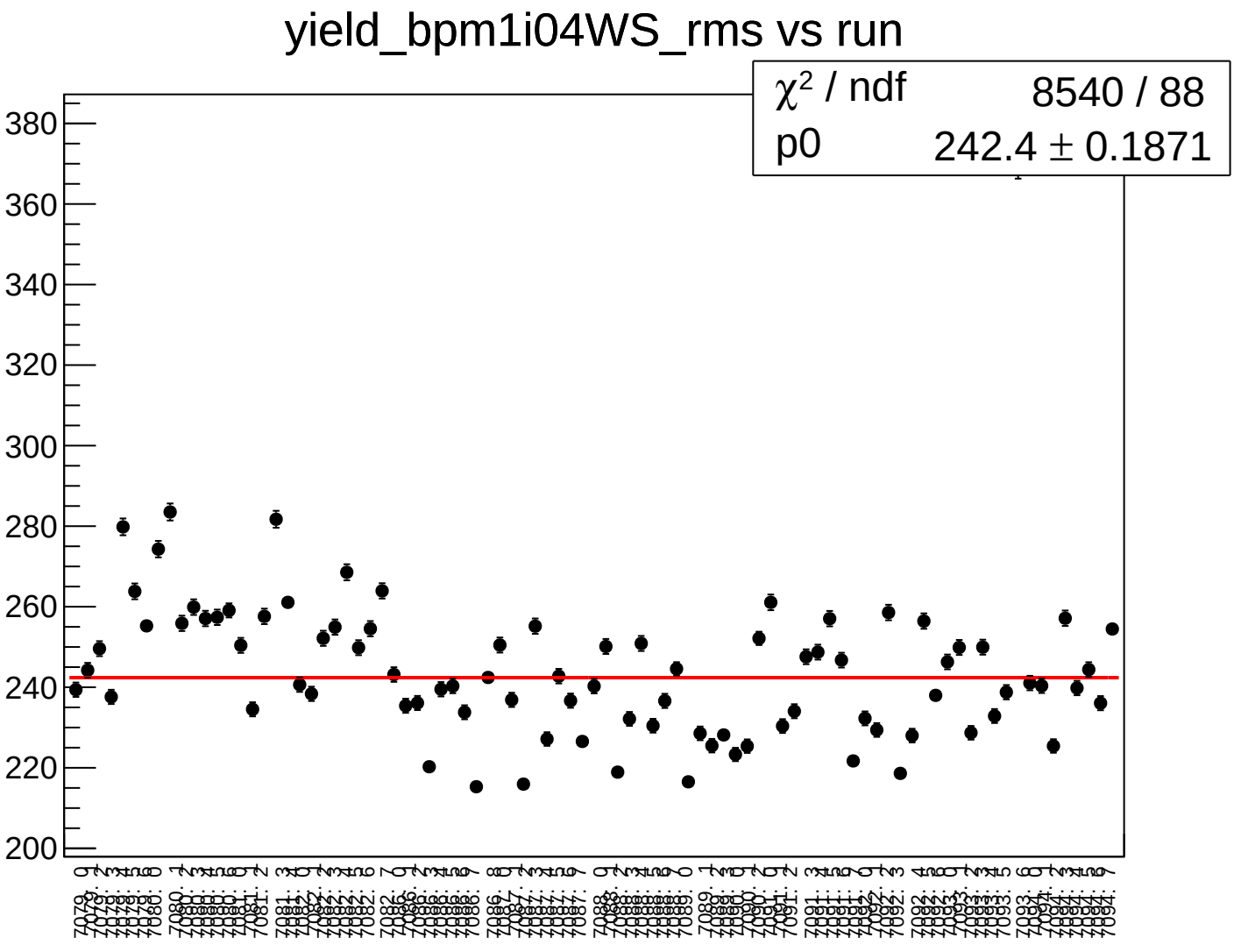

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 5.928e+05 / 88
p0 1.702e+05 ± 0.2511
170.7
170.6
170.5
170.4
170.3
170.2
170.1
170
169.9
169.8
pull
Entries 89
Mean 83.44
Std Dev 0
150
100
50
0
−50
−100
−150
−200

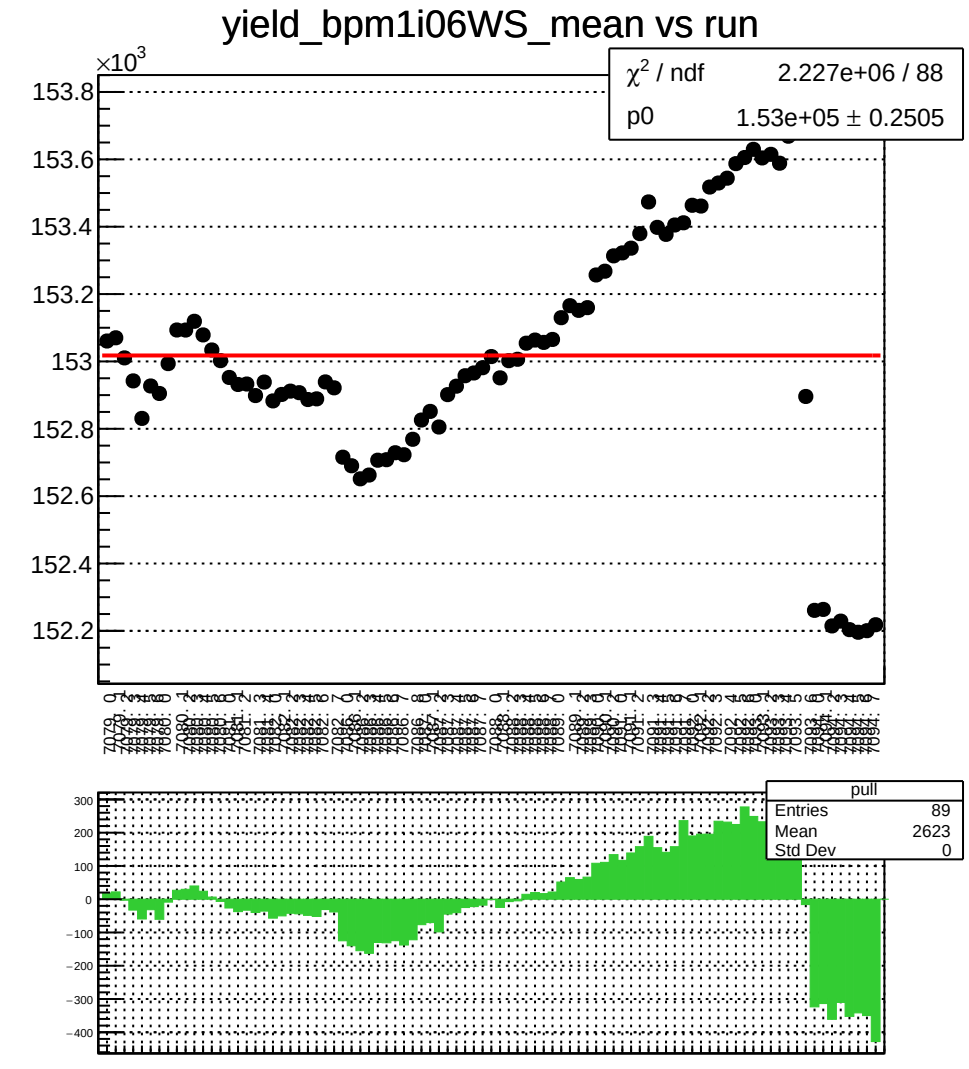

pull1D
Entries 89
Mean −1.094
Std Dev 3.85
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

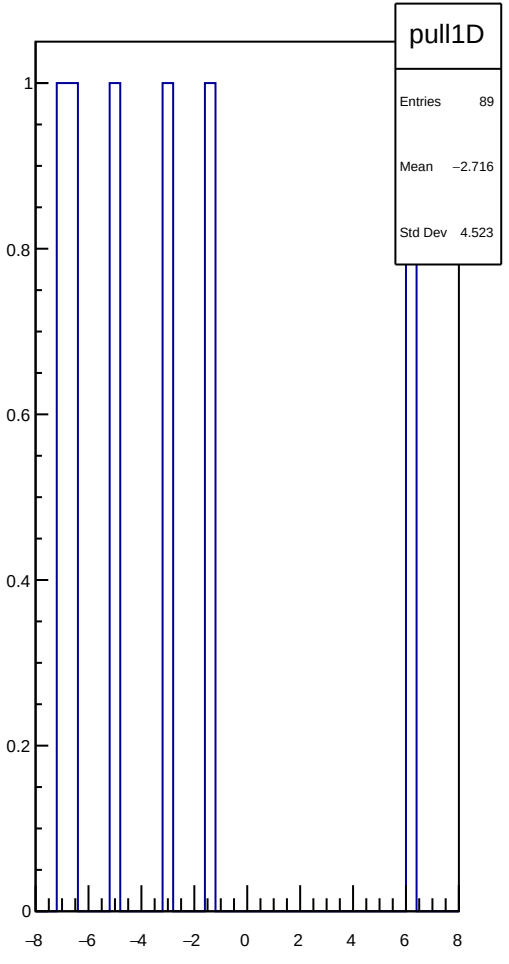

yield_bpm1i02WS_rms vs run
χ² / ndf 9726 / 88
p0 229.9 ± 0.1776
450
400
350
300
250
200

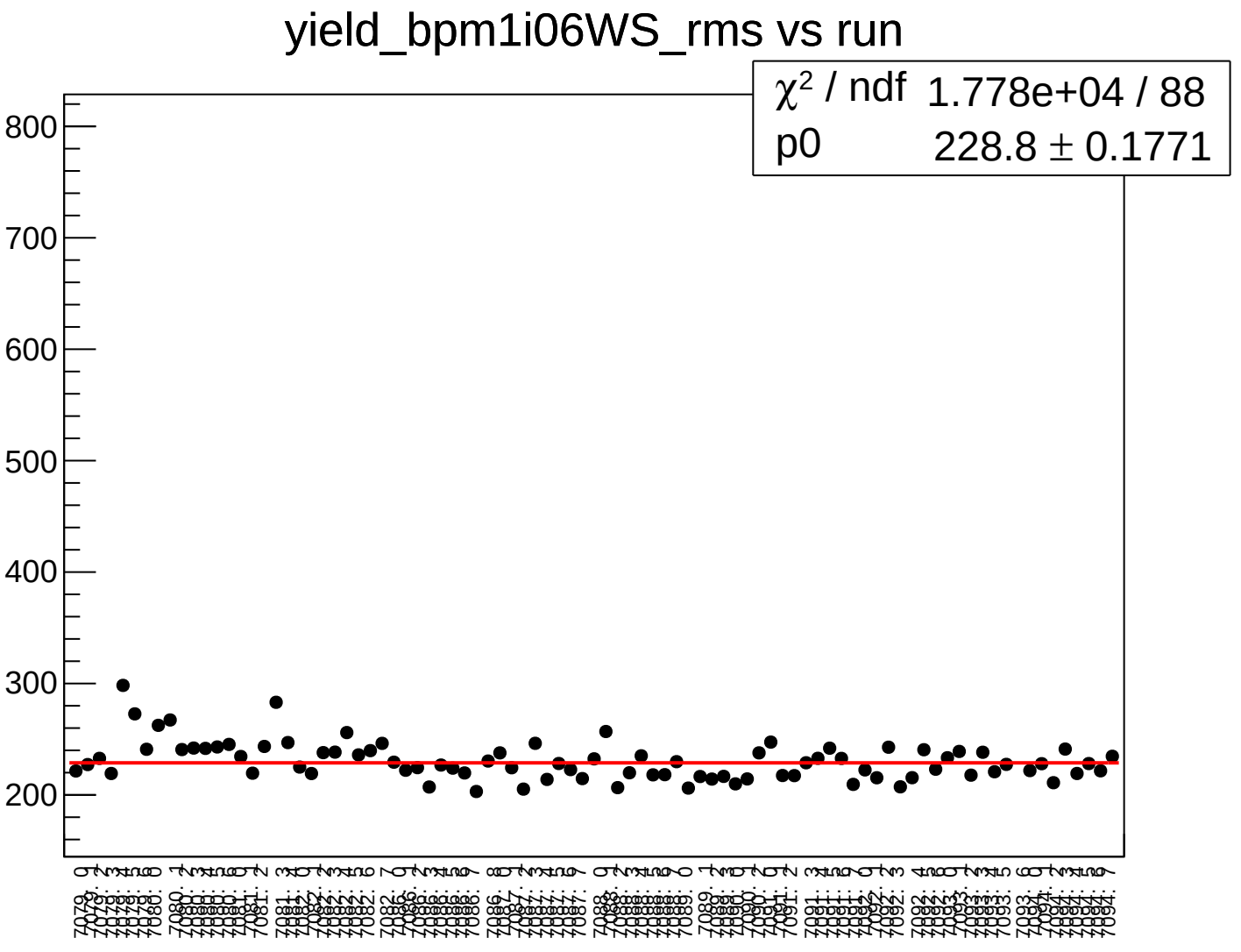

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 5.142e+05 / 88
p0 1.731e+05 ± 0.2647
173.4
173.3
173.2
173.1
173
172.9
172.8
pull
Entries 89
Mean 55.28
Std Dev 118.8
100
50
0
−50
−100
−150

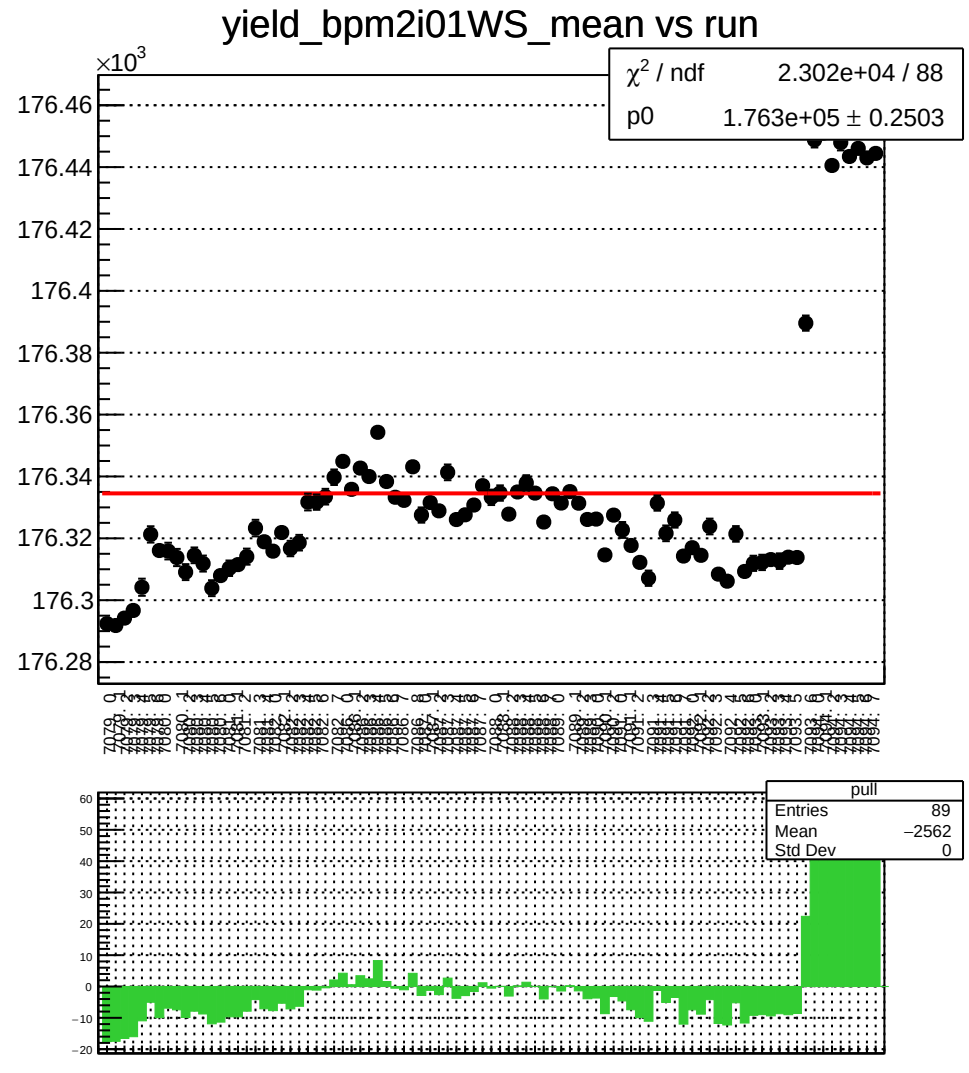

pull1D
Entries 89
Mean 1.23
Std Dev 5.364
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

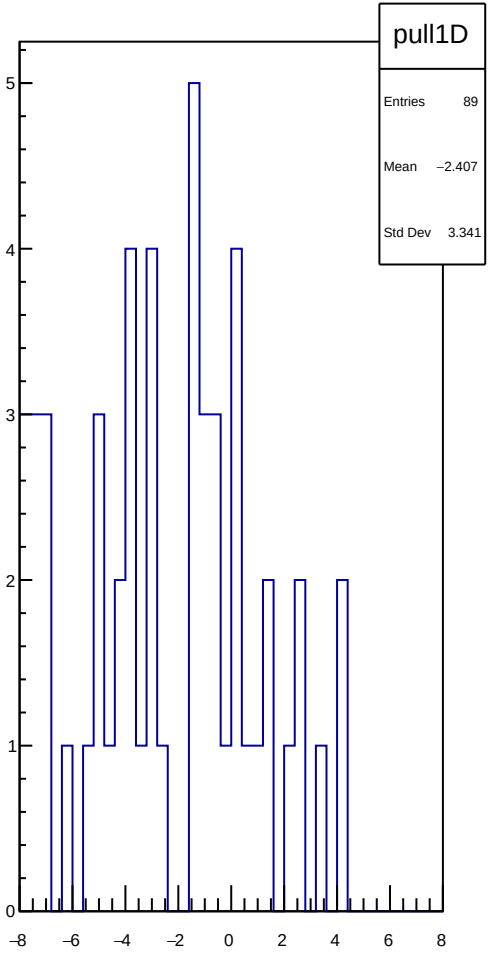

yield_bpm1i04WS_rms vs run
χ² / ndf 8540 / 88
p0 242.4 ± 0.1871
380
360
340
320
300
280
260
240
220
200

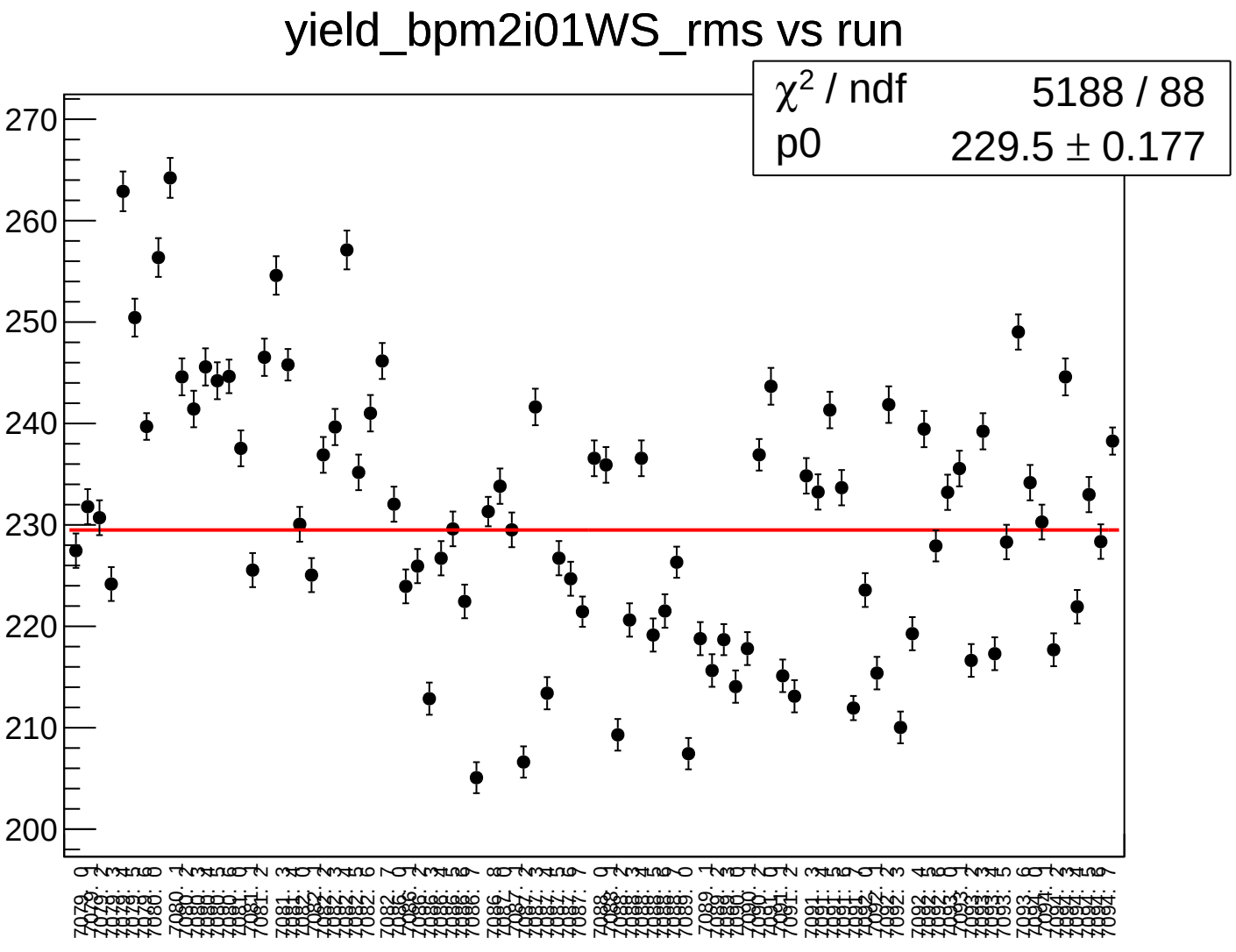

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2.227e+06 / 88
p0 1.53e+05 ± 0.2505
153.8
153.6
153.4
153.2
153
152.8
152.6
152.4
152.2
pull
Entries 89
Mean 2623
Std Dev 0
300
200
100
0
−100
−200
−300
−400

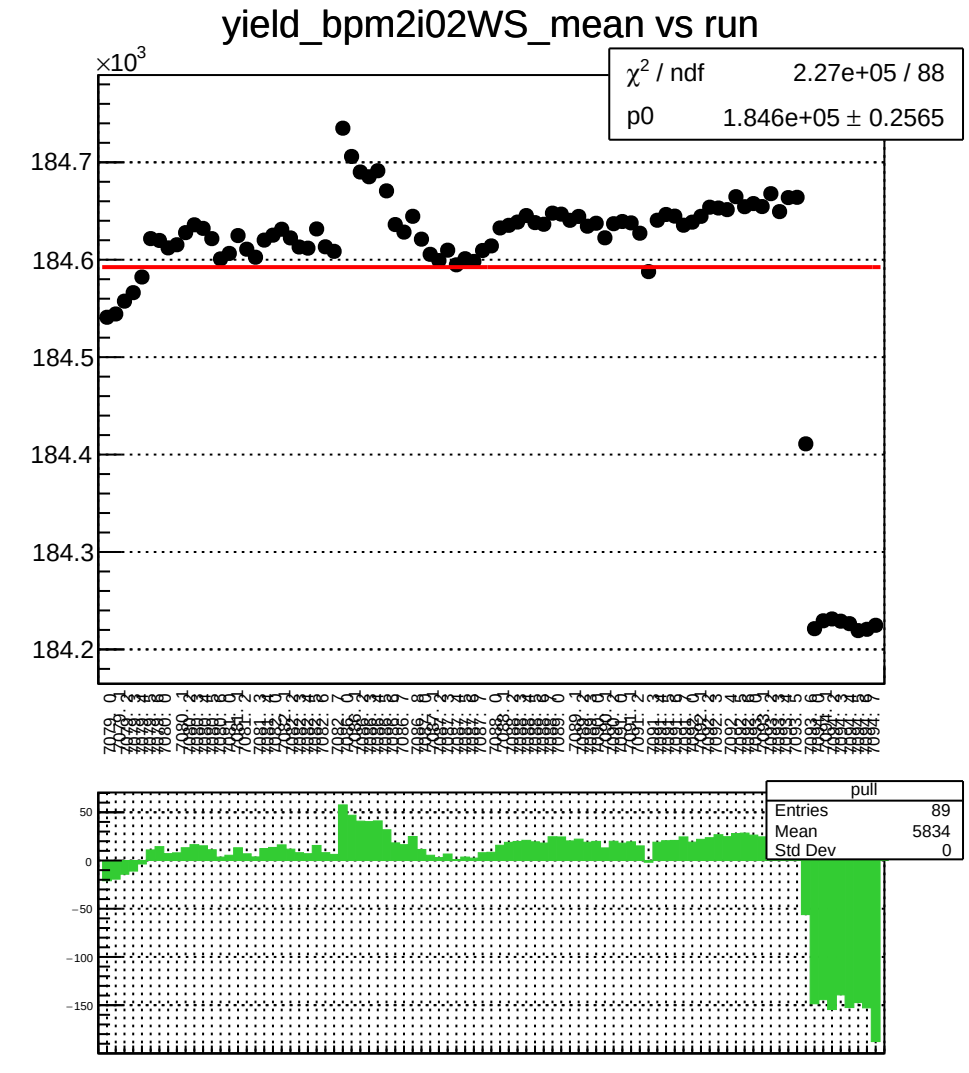

pull1D
Entries 89
Mean −2.716
Std Dev 4.523
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

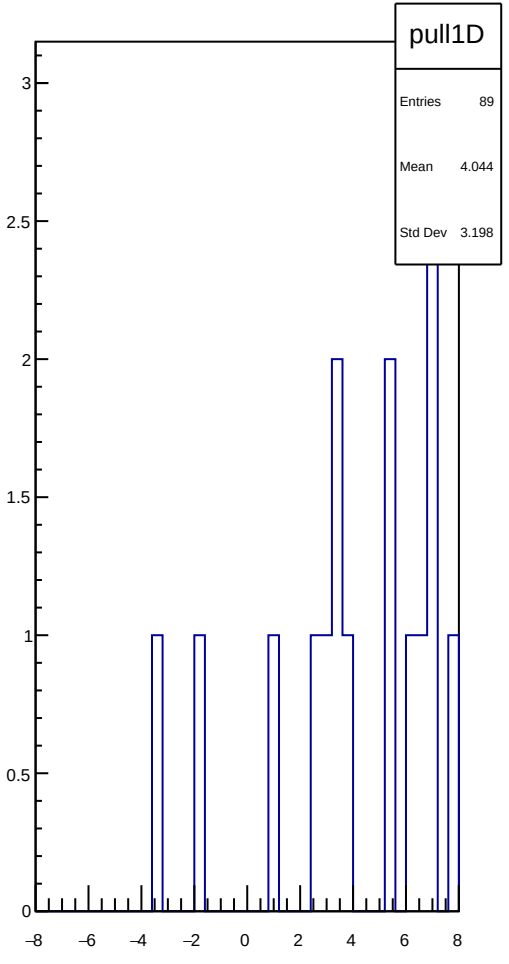

yield_bpm1i06WS_rms vs run
χ² / ndf 1.778e+04 / 88
p0 228.8 ± 0.1771
800
700
600
500
400
300
200

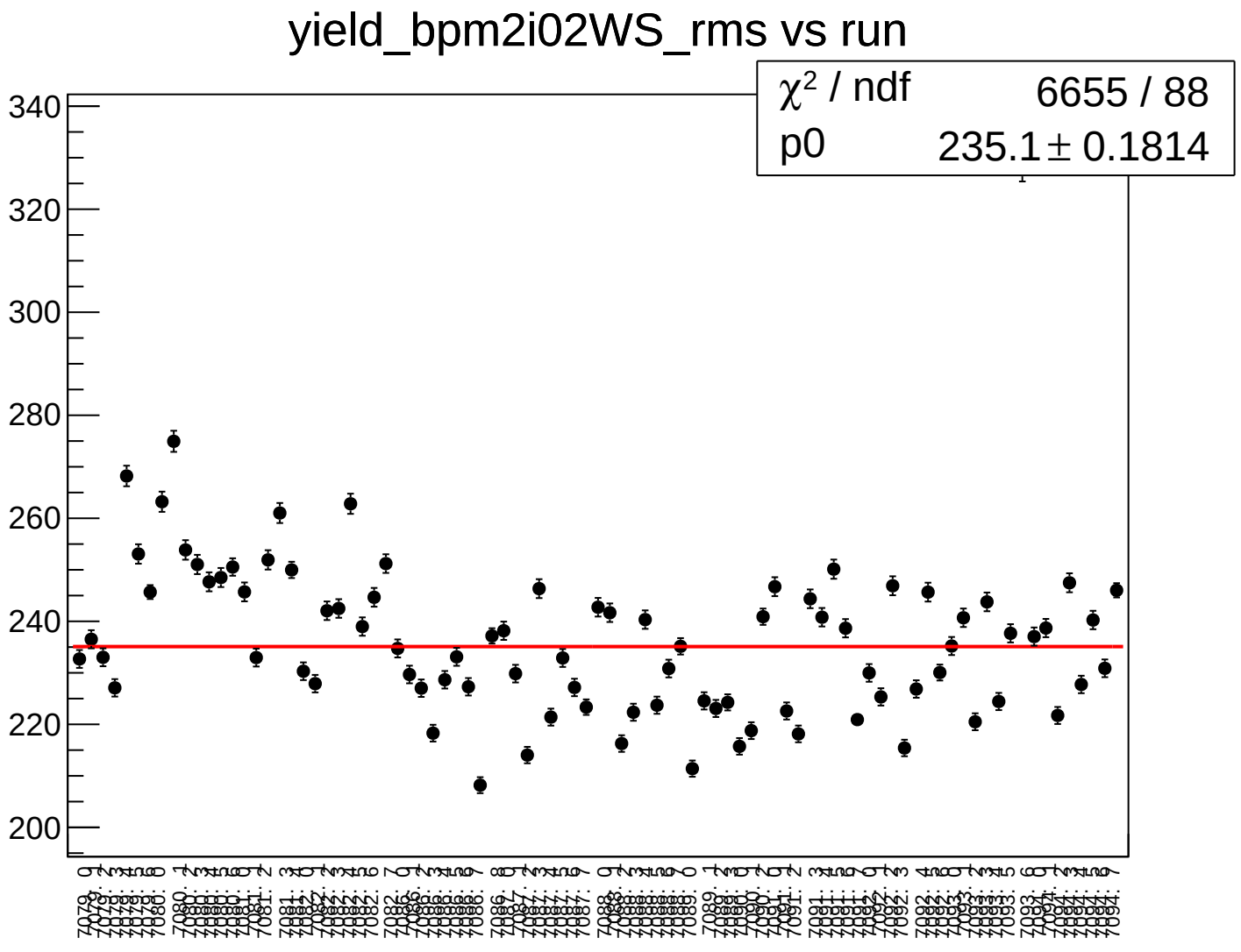

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.302e+04 / 88
p0 1.763e+05 ± 0.2503
176.46
176.44
176.42
176.4
176.38
176.36
176.34
176.32
176.3
176.28
pull
Entries 89
Mean −2562
Std Dev 0
60
50
40
30
20
10
0
−10
−20

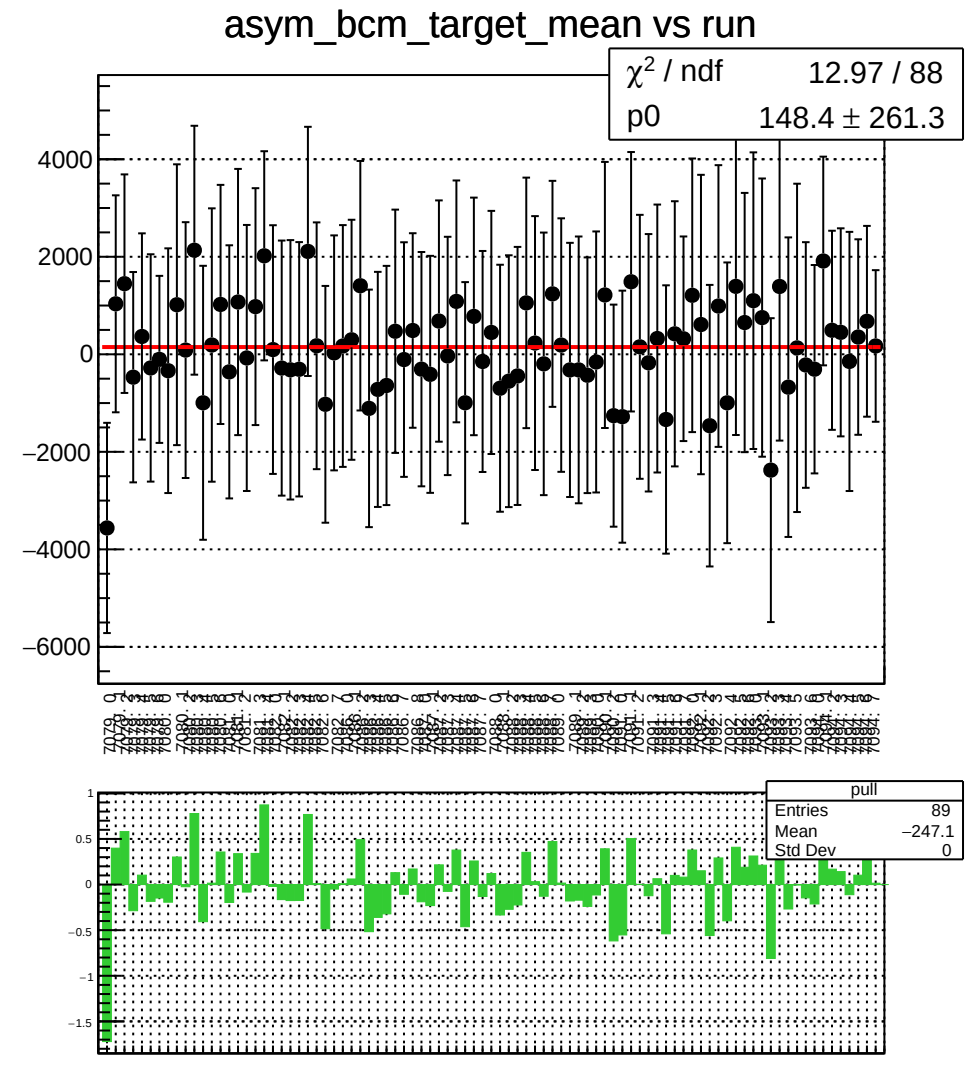

pull1D
Entries 89
Mean −2.407
Std Dev 3.341
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

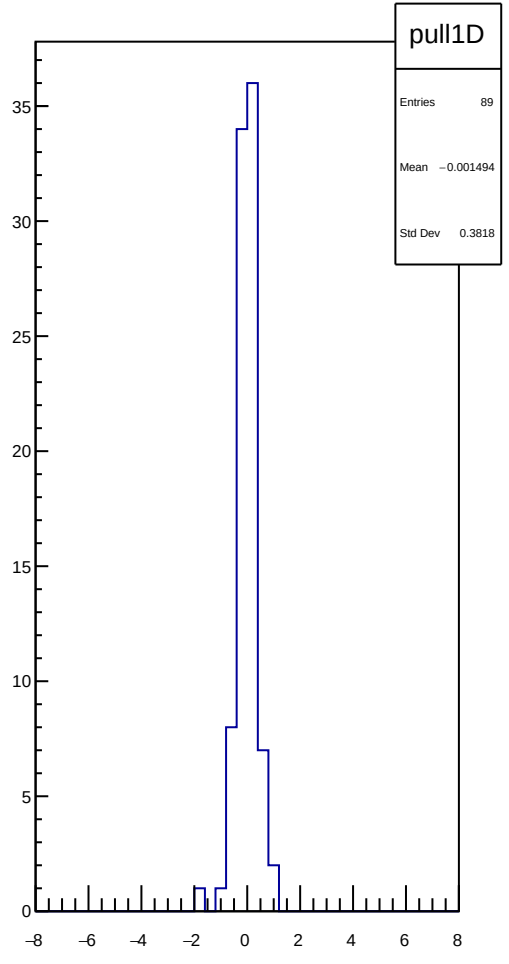

yield_bpm2i01WS_rms vs run
χ² / ndf 5188 / 88
p0 229.5 ± 0.177
270
260
250
240
230
220
210
200

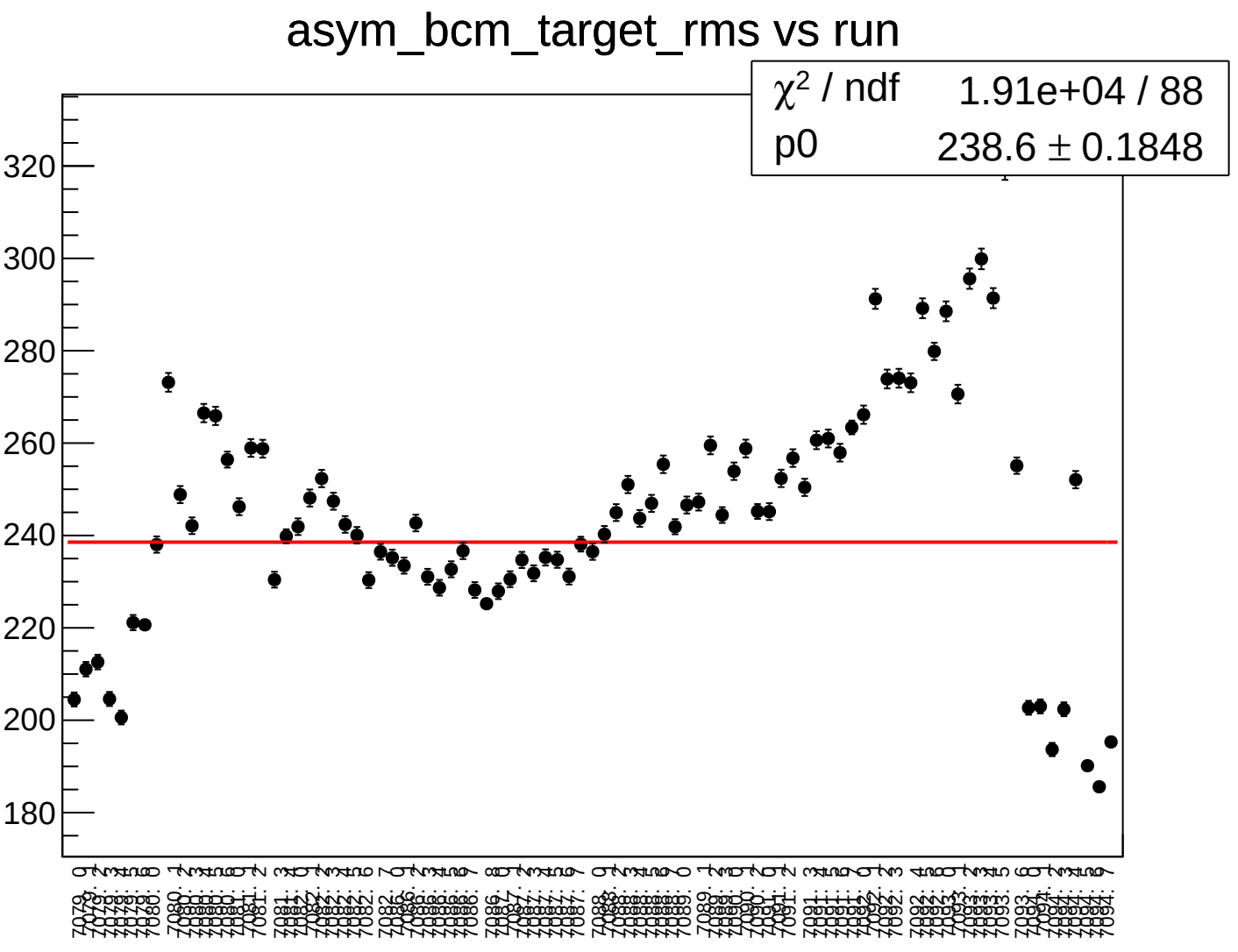

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.27e+05 / 88
p0 1.846e+05 ± 0.2565
184.7
184.6
184.5
184.4
184.3
184.2
pull
Entries 89
Mean 5834
Std Dev 0
50
0
−50
−100
−150

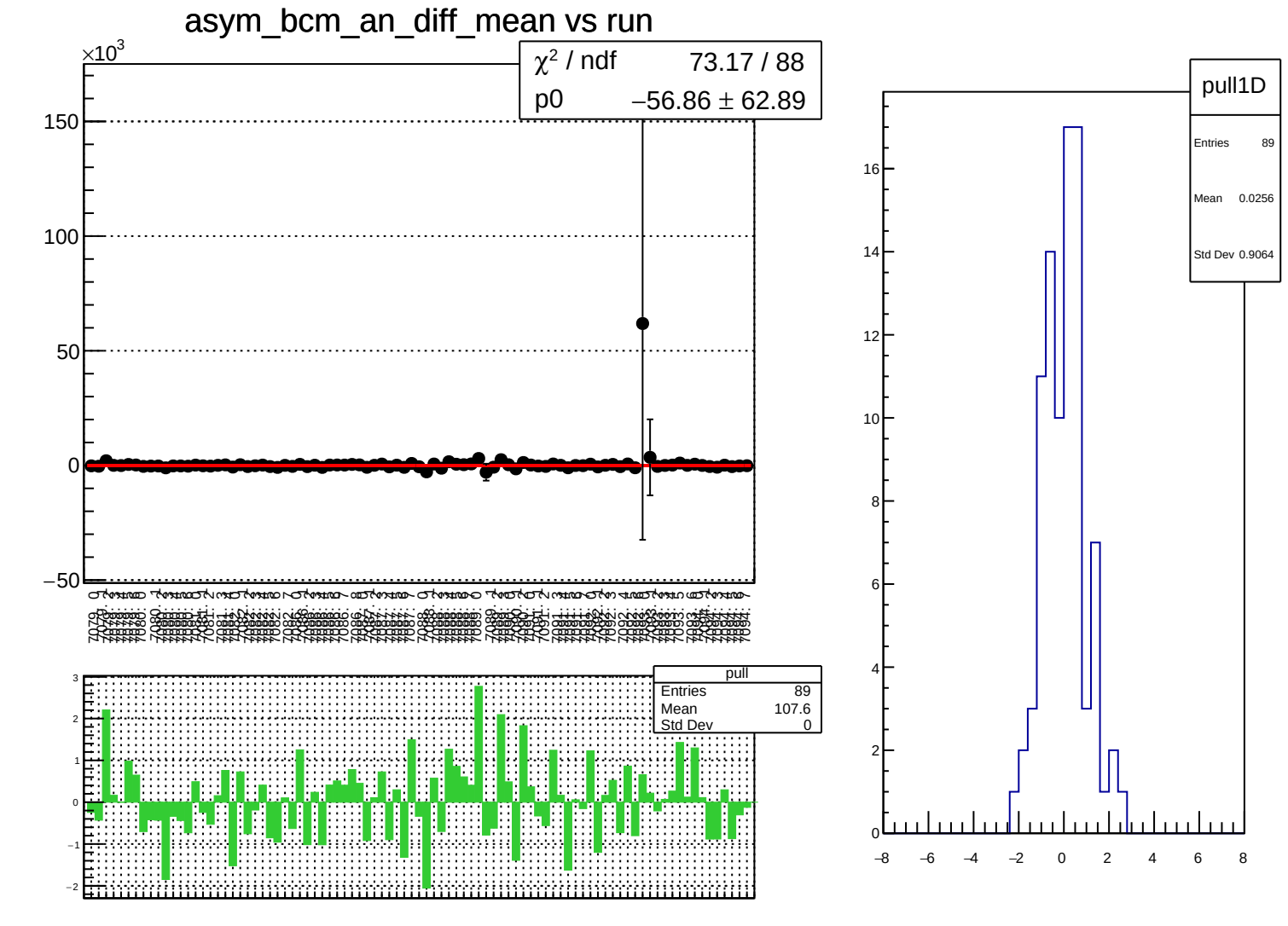

pull1D
Entries 89
Mean 4.044
Std Dev 3.198
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

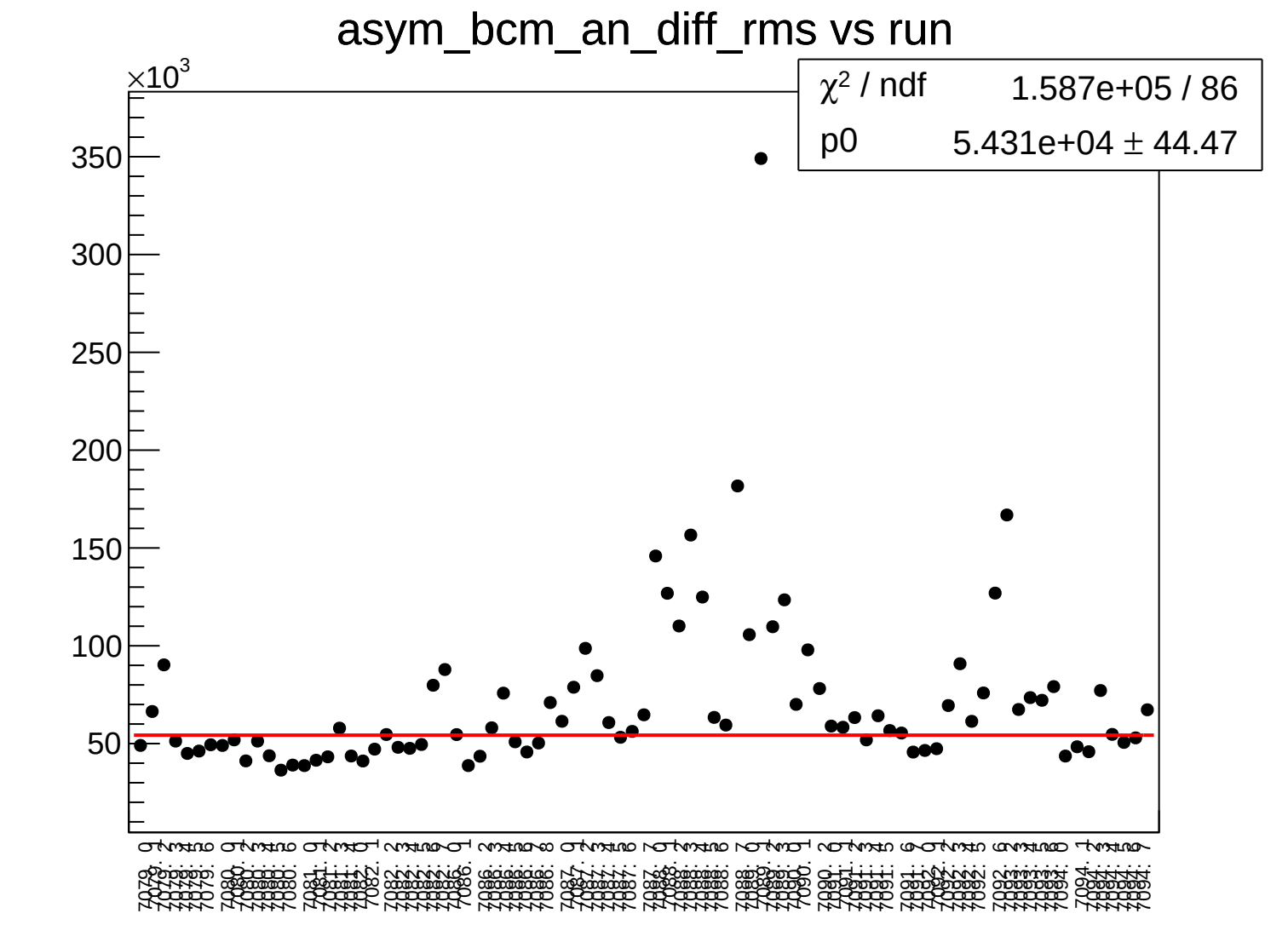

yield_bpm2i02WS_rms vs run
χ² / ndf 6655 / 88
p0 235.1 ± 0.1814
340
320
300
280
260
240
220
200

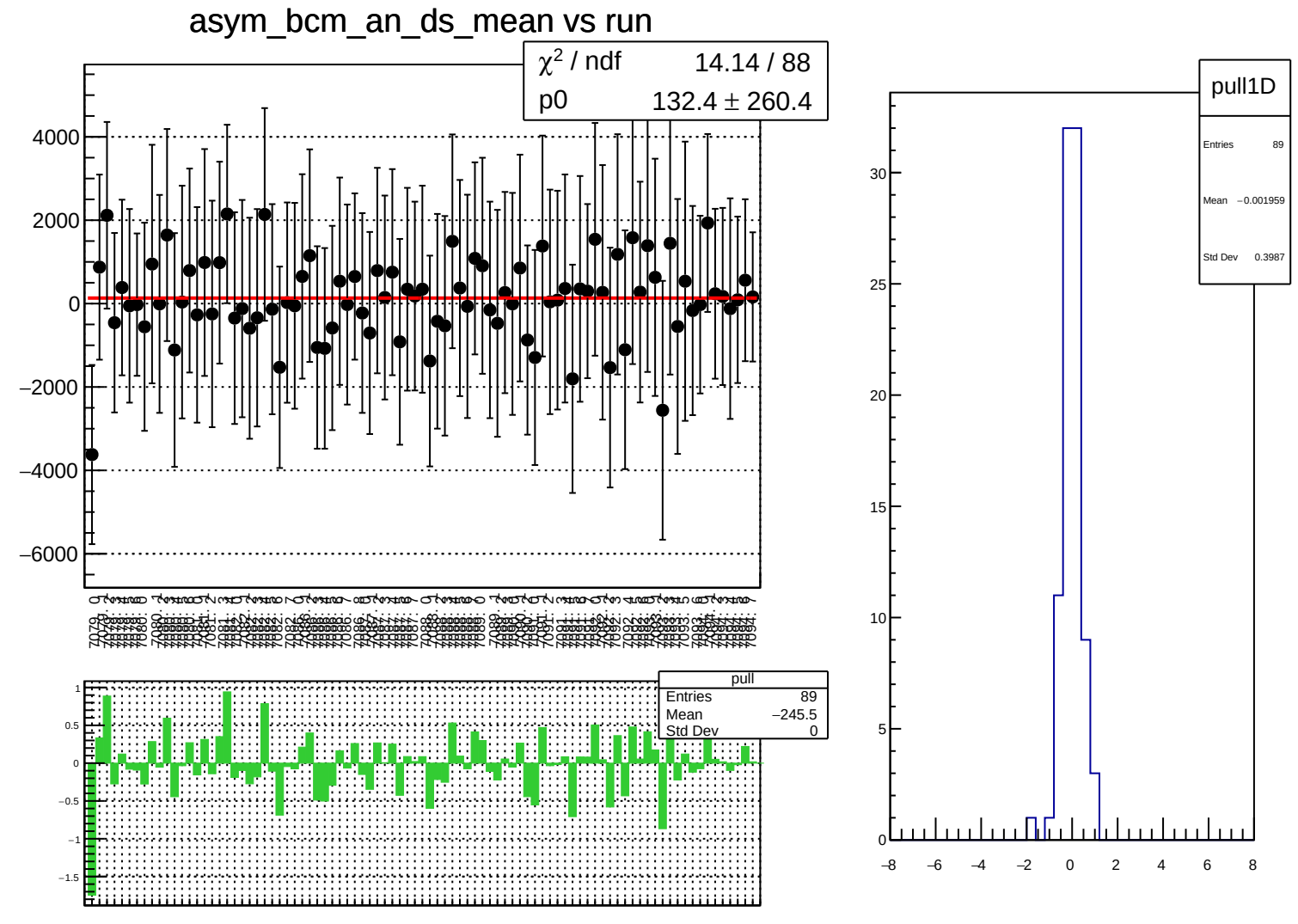

asym_bcm_target_mean vs run
χ² / ndf 12.97 / 88
p0 148.4 ± 261.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −247.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

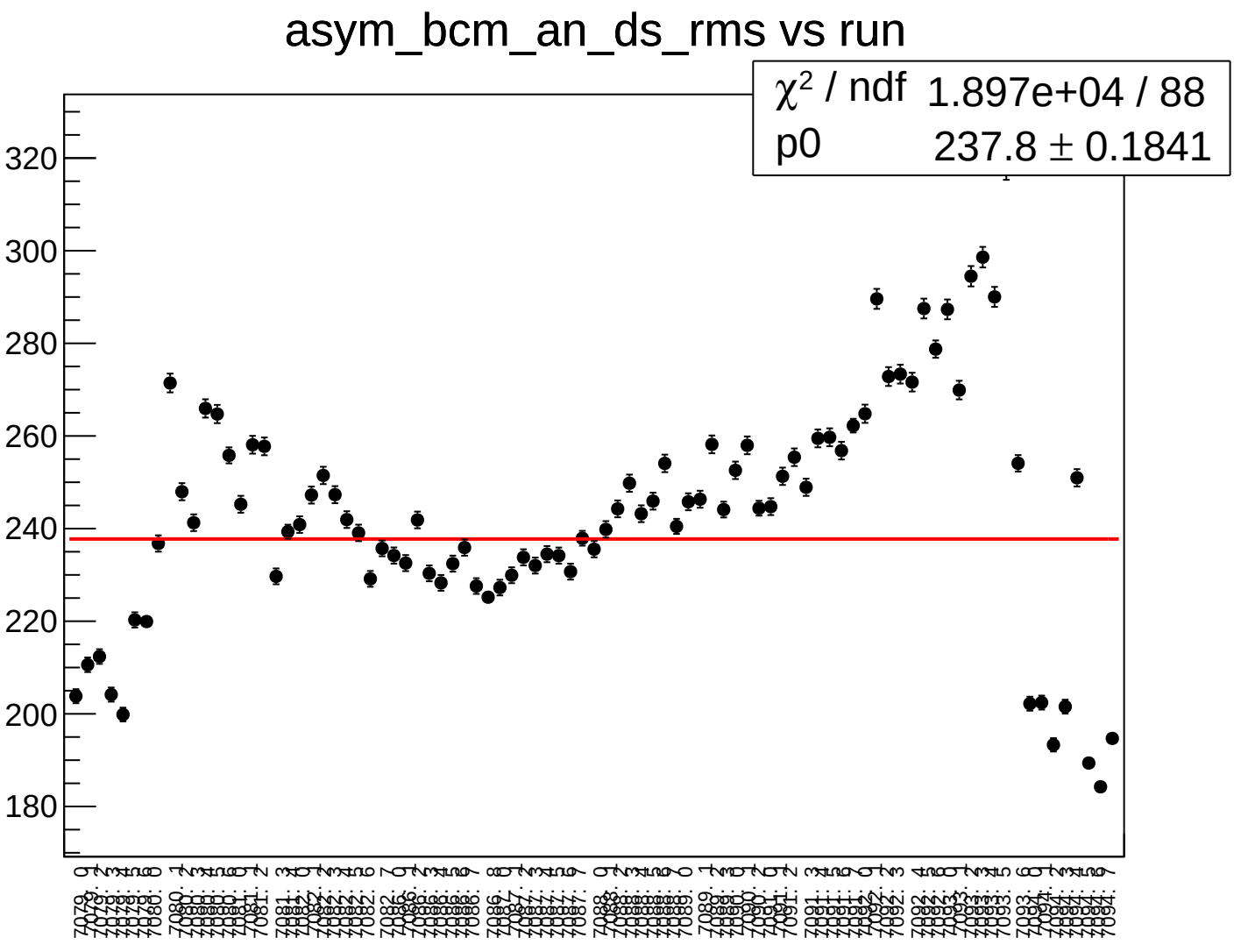

pull1D
Entries 89
Mean −0.001494
Std Dev 0.3818
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

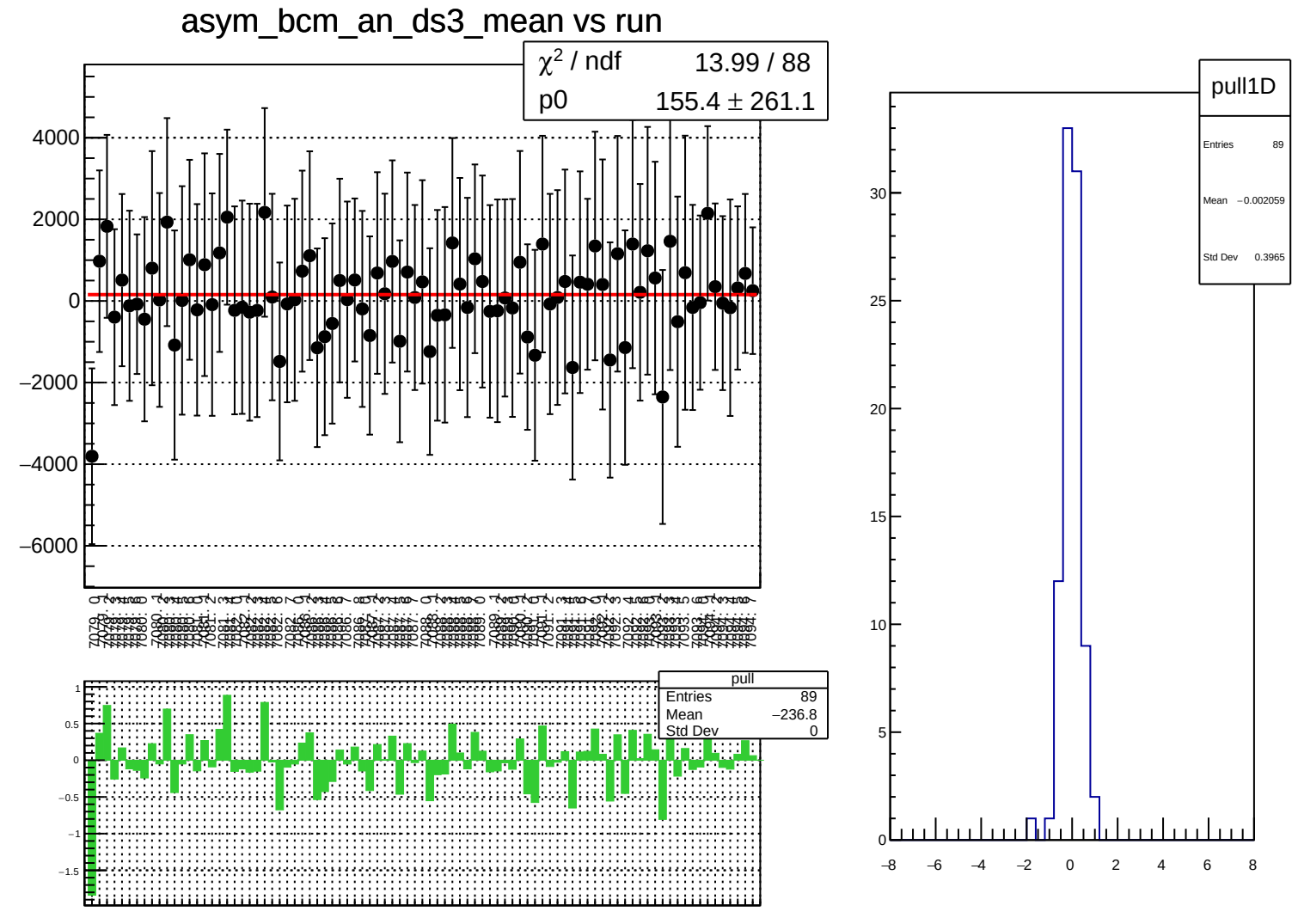

asym_bcm_target_rms vs run
χ² / ndf 1.91e+04 / 88
p0 238.6 ± 0.1848
320
300
280
260
240
220
200
180

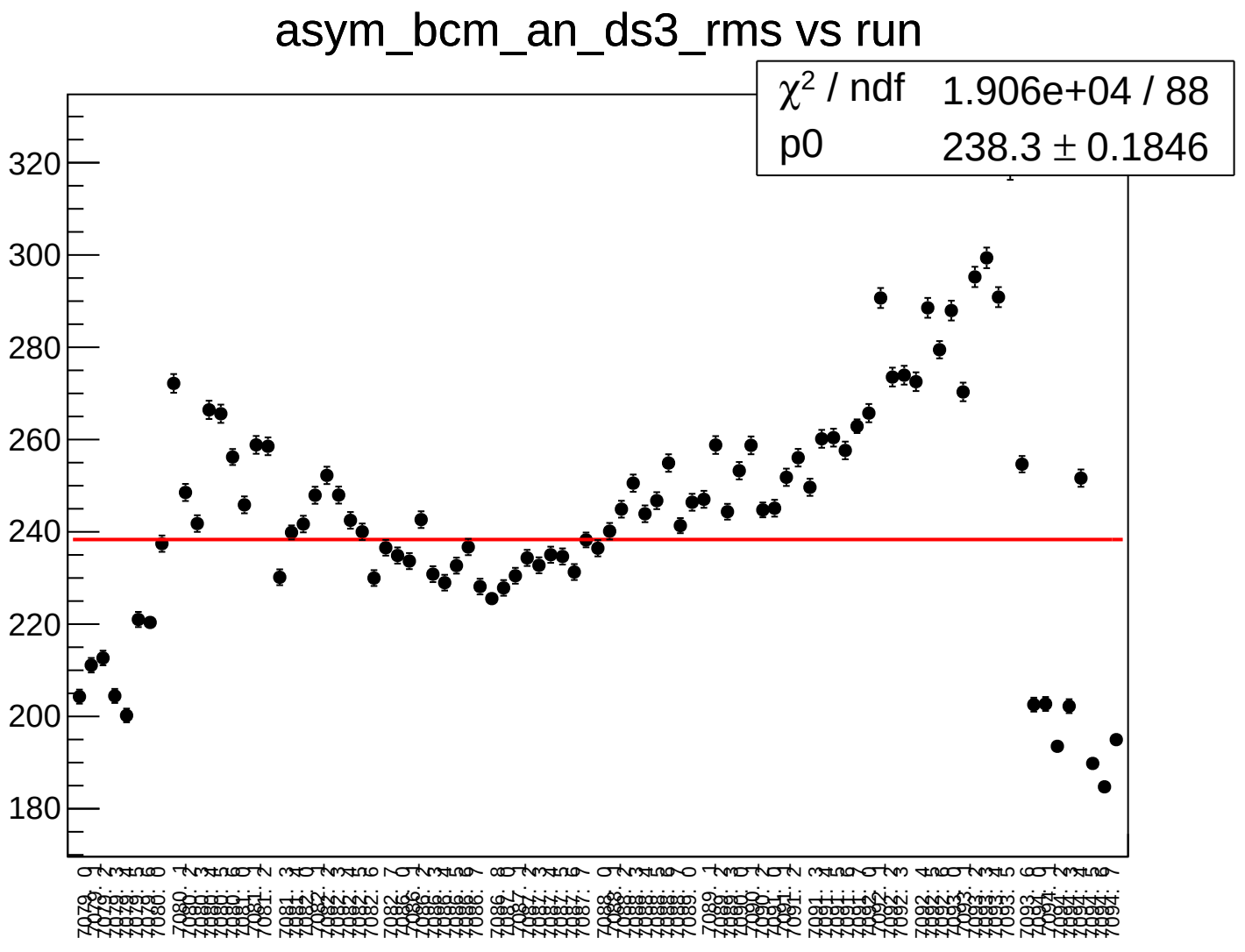

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 73.17 / 88
p0 −56.86 ± 62.89
150
100
50
0
−50
pull
Entries 89
Mean 107.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.0256
Std Dev 0.9064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

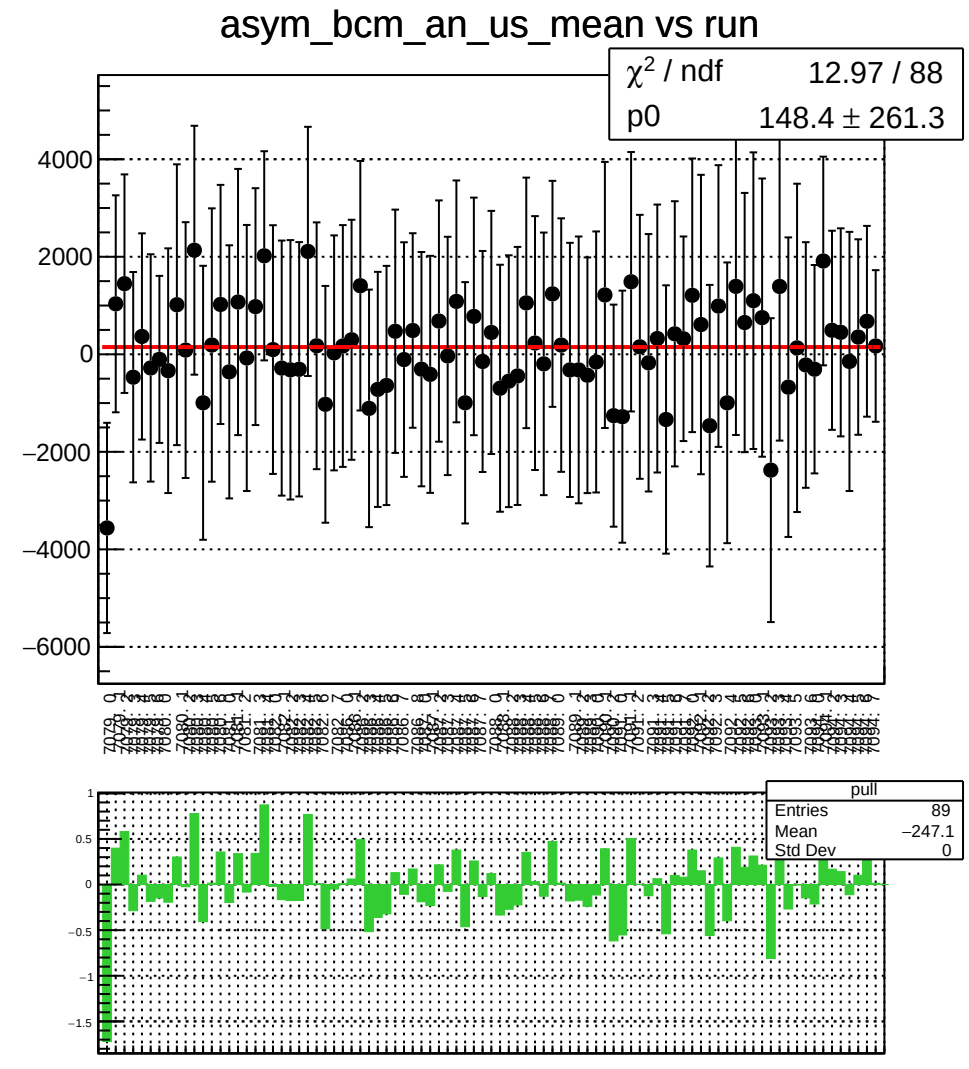

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 1.587e+05 / 86
p0 5.431e+04 ± 44.47
350
300
250
200
150
100
50

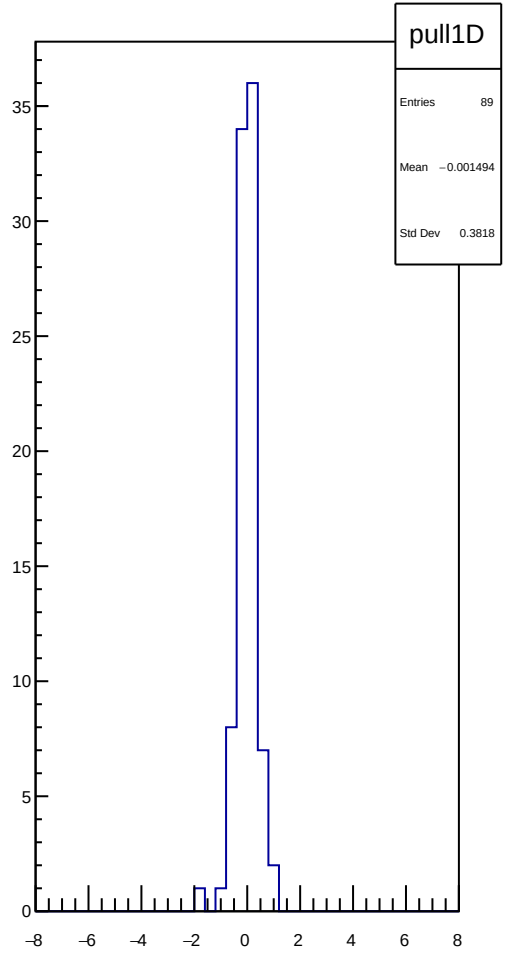

asym_bcm_an_ds_mean vs run
χ² / ndf 14.14 / 88
p0 132.4 ± 260.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −245.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.001959
Std Dev 0.3987
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

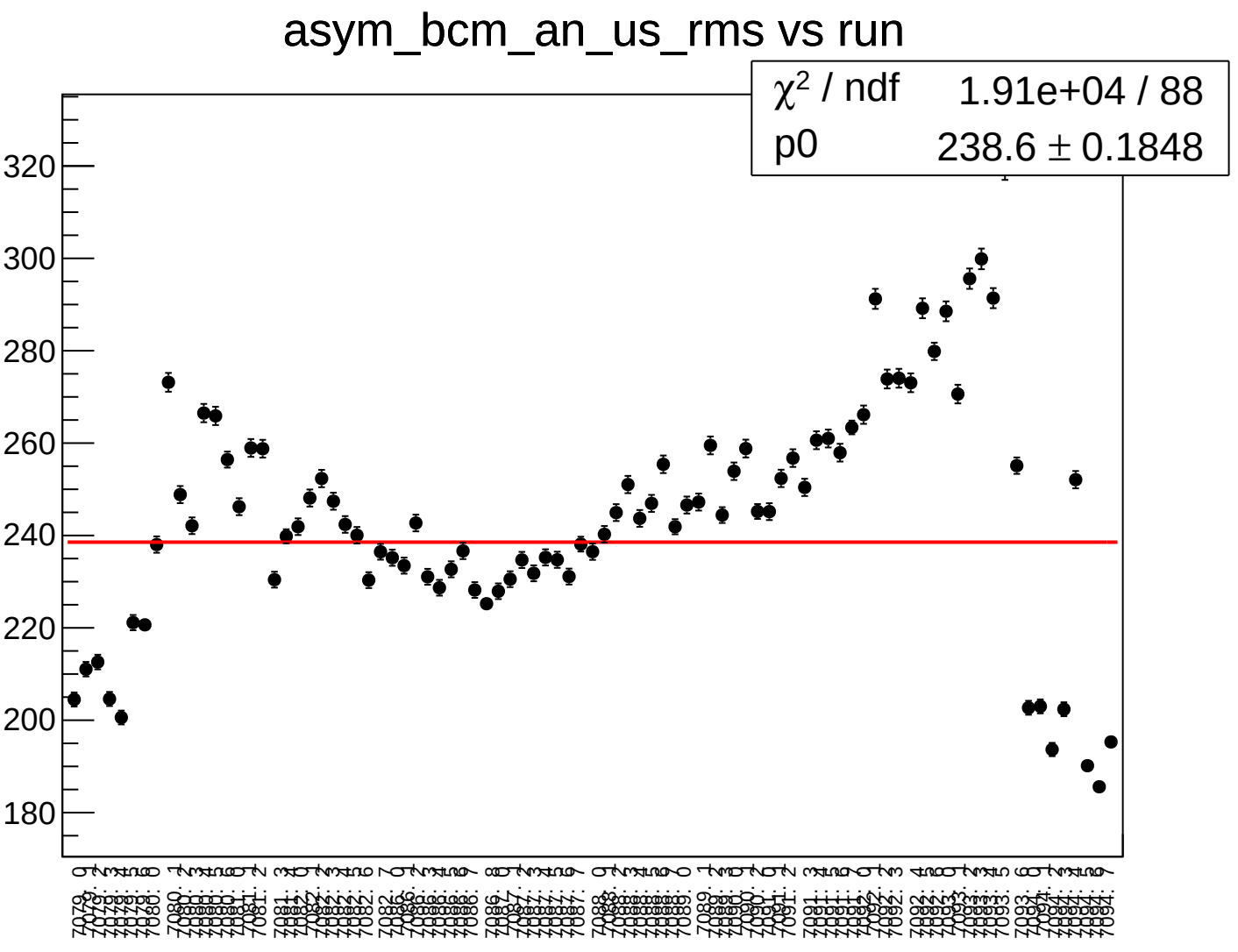

asym_bcm_an_ds_rms vs run
χ² / ndf 1.897e+04 / 88
p0 237.8 ± 0.1841
320
300
280
260
240
220
200
180

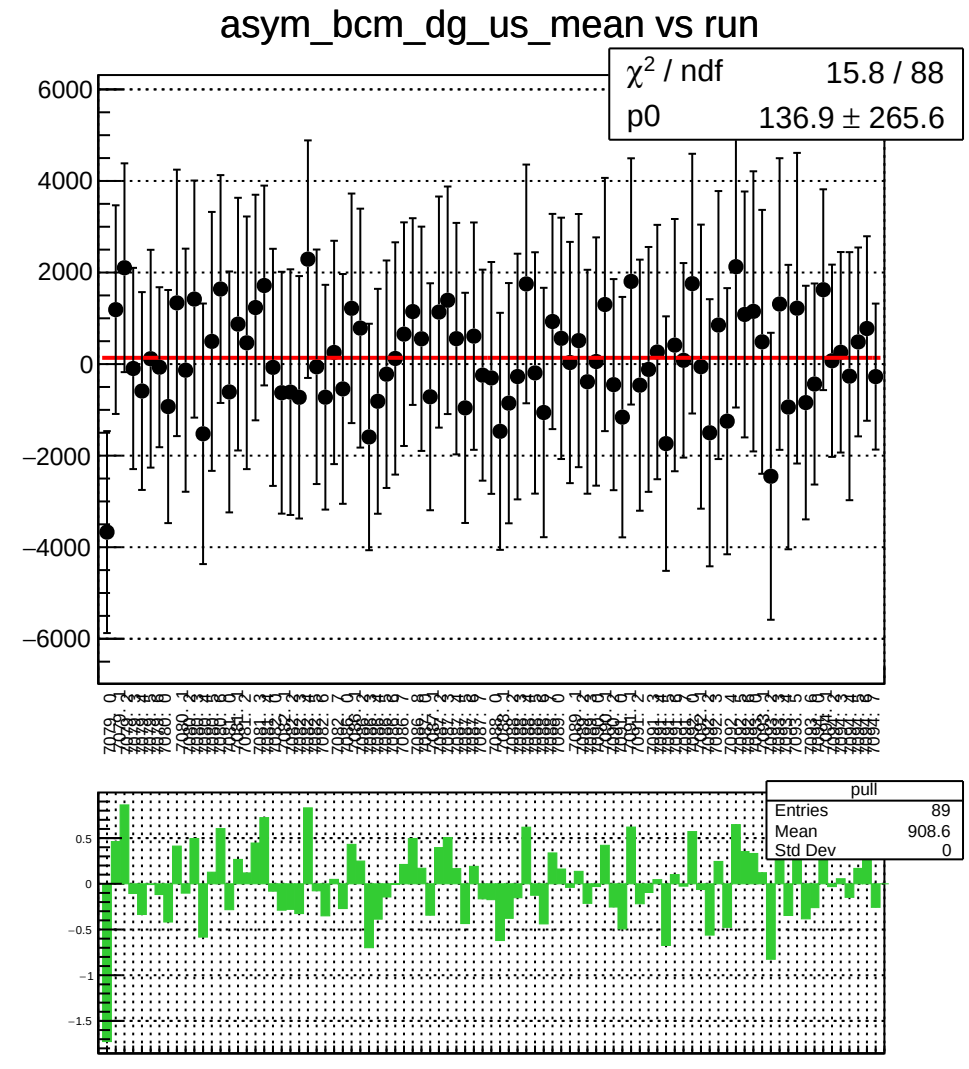

asym_bcm_an_ds3_mean vs run
χ² / ndf 13.99 / 88
p0 155.4 ± 261.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −236.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.002059
Std Dev 0.3965
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

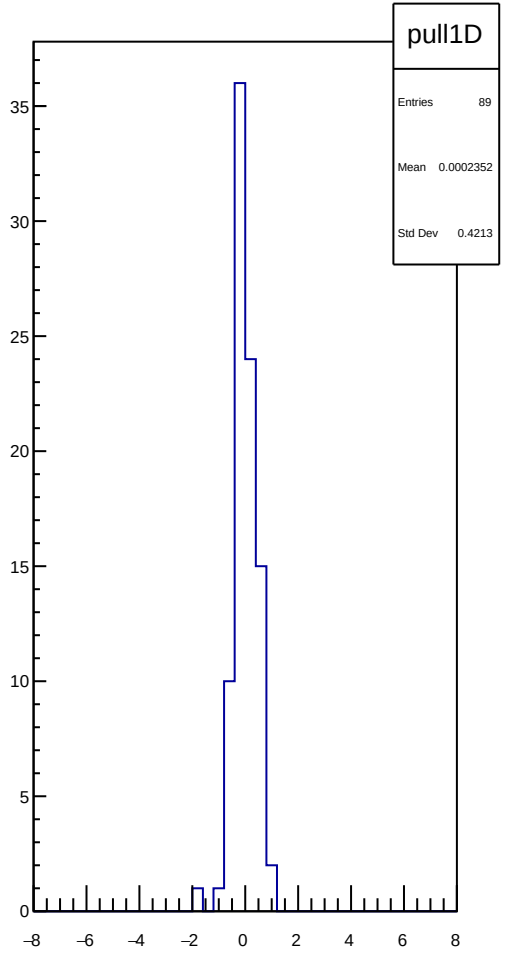

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.906e+04 / 88
p0 238.3 ± 0.1846
320
300
280
260
240
220
200
180

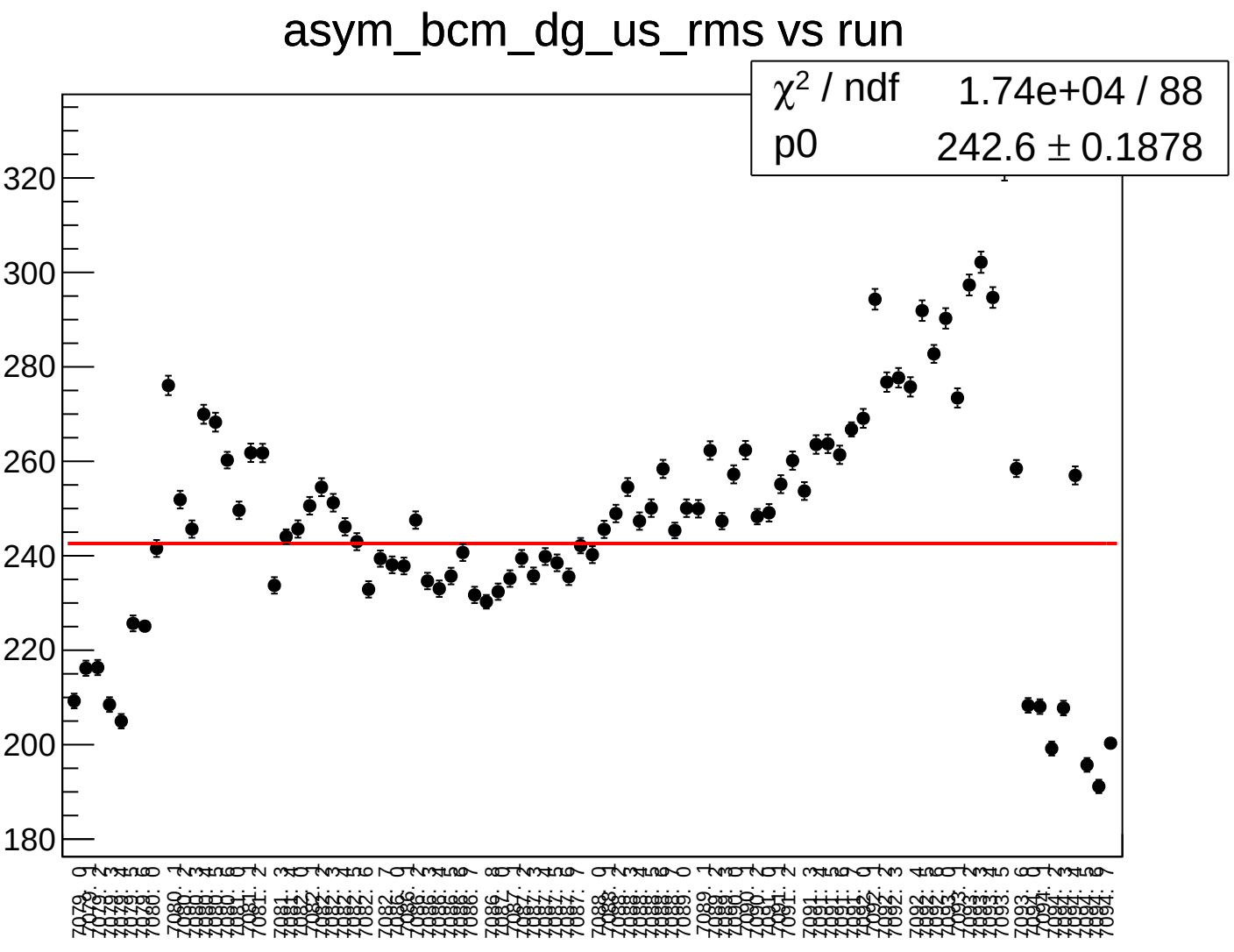

asym_bcm_an_us_mean vs run
χ² / ndf 12.97 / 88
p0 148.4 ± 261.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −247.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

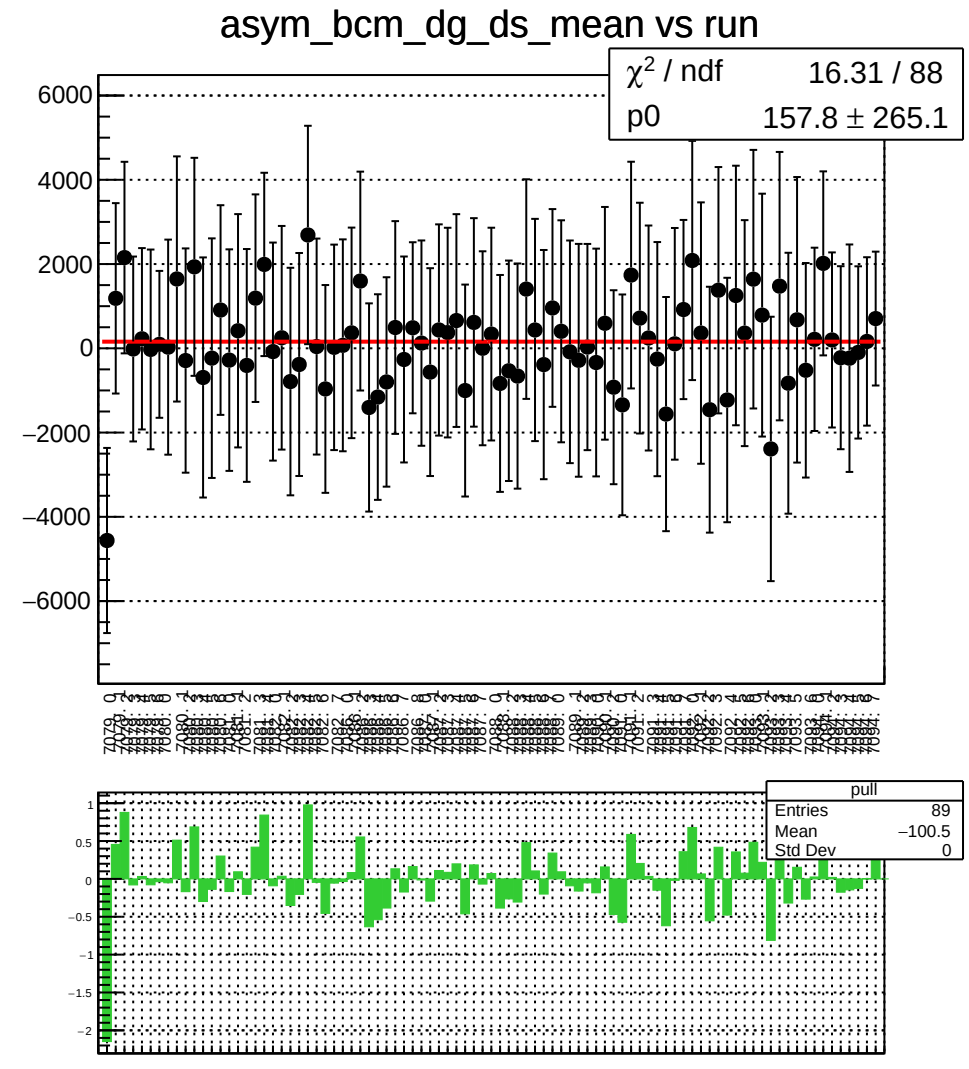

pull1D
Entries 89
Mean −0.001494
Std Dev 0.3818
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

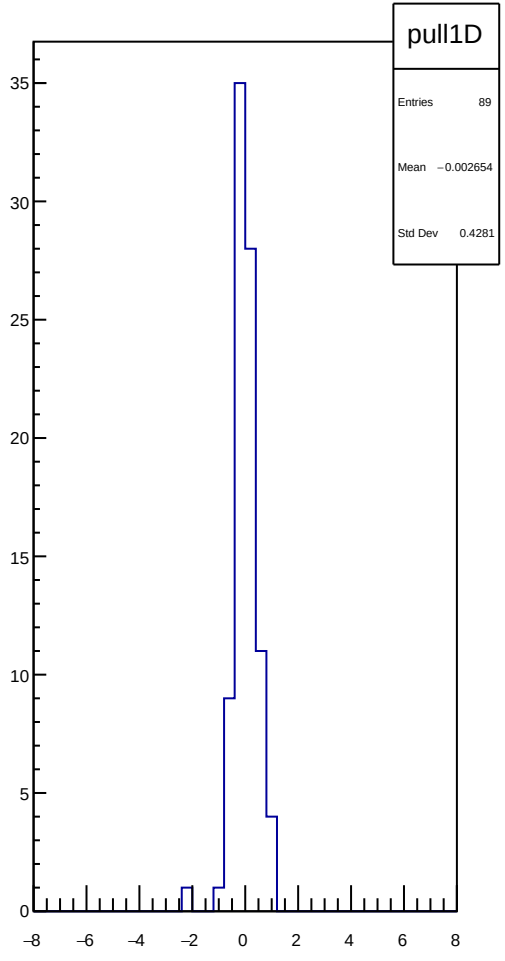

asym_bcm_an_us_rms vs run
χ² / ndf 1.91e+04 / 88
p0 238.6 ± 0.1848
320
300
280
260
240
220
200
180

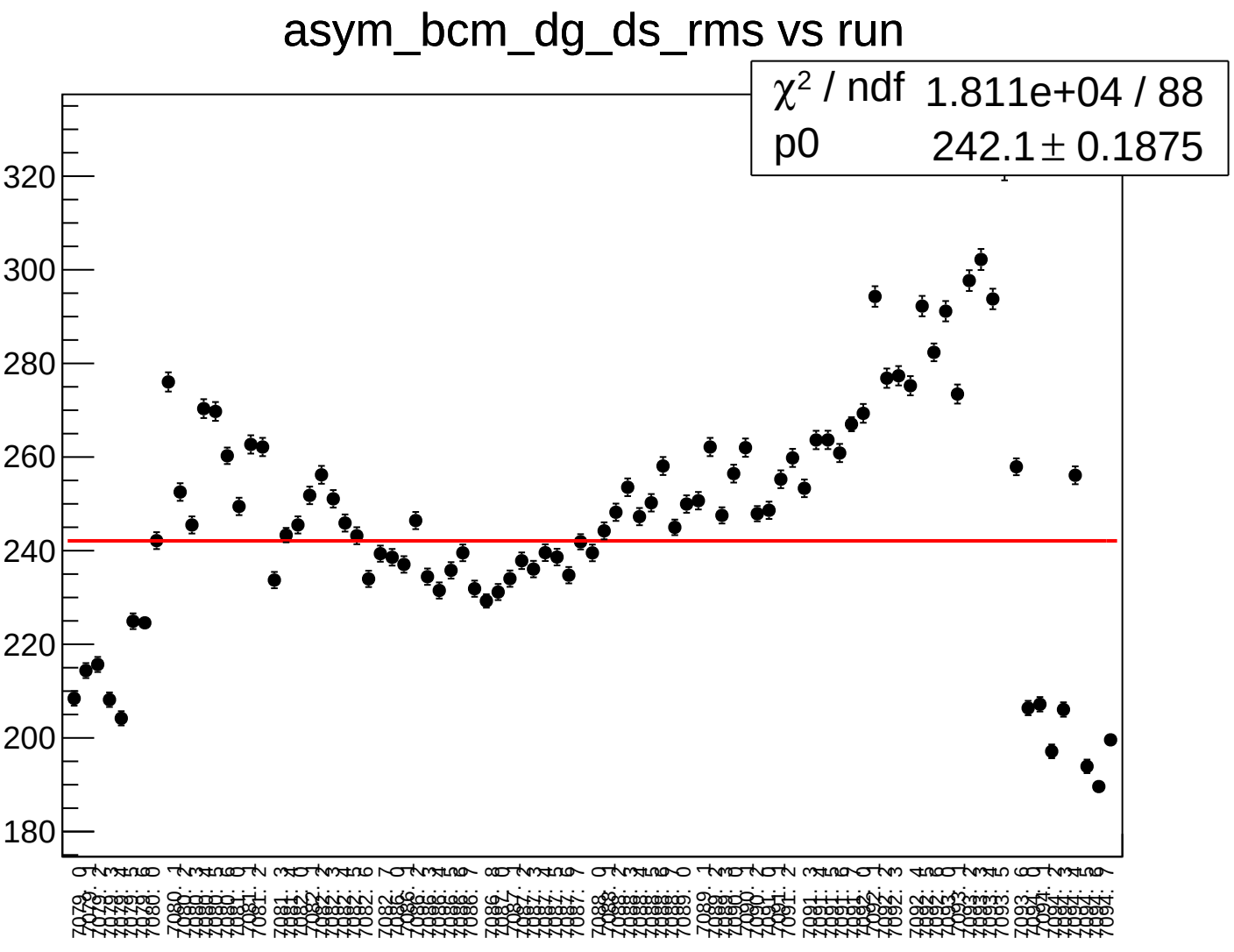

asym_bcm_dg_us_mean vs run
χ² / ndf 15.8 / 88
p0 136.9 ± 265.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 908.6
Std Dev 0
0.5
0
−0.5
−1
−1.5

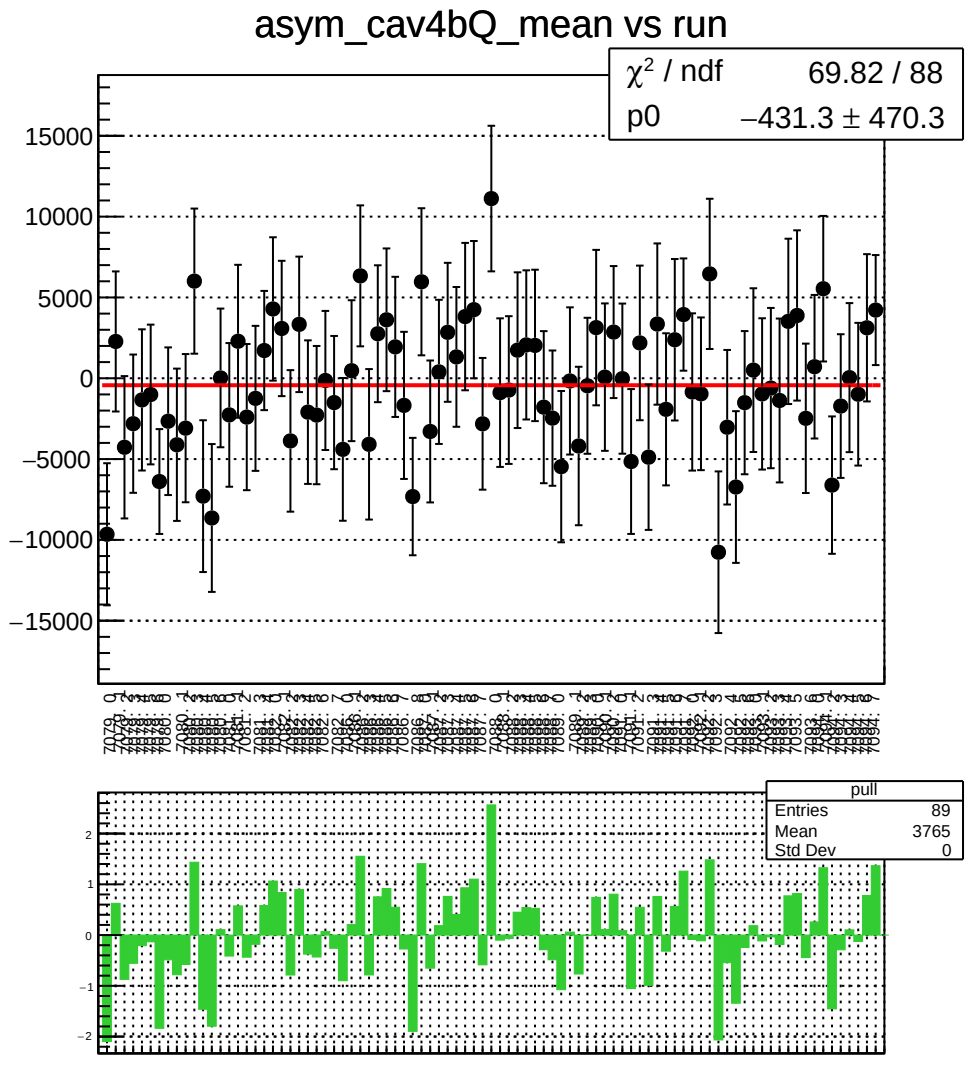

pull1D
Entries 89
Mean 0.0002352
Std Dev 0.4213
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

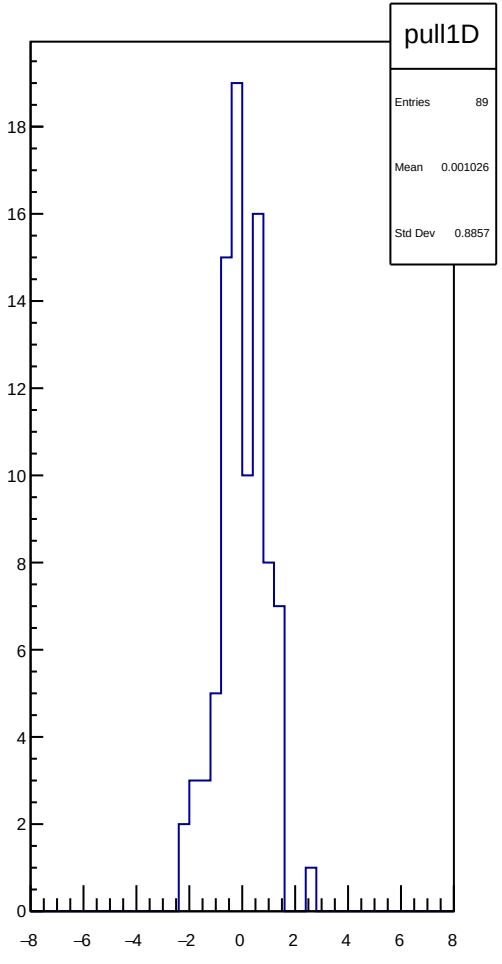

asym_bcm_dg_us_rms vs run
χ² / ndf 1.74e+04 / 88
p0 242.6 ± 0.1878
320
300
280
260
240
220
200
180

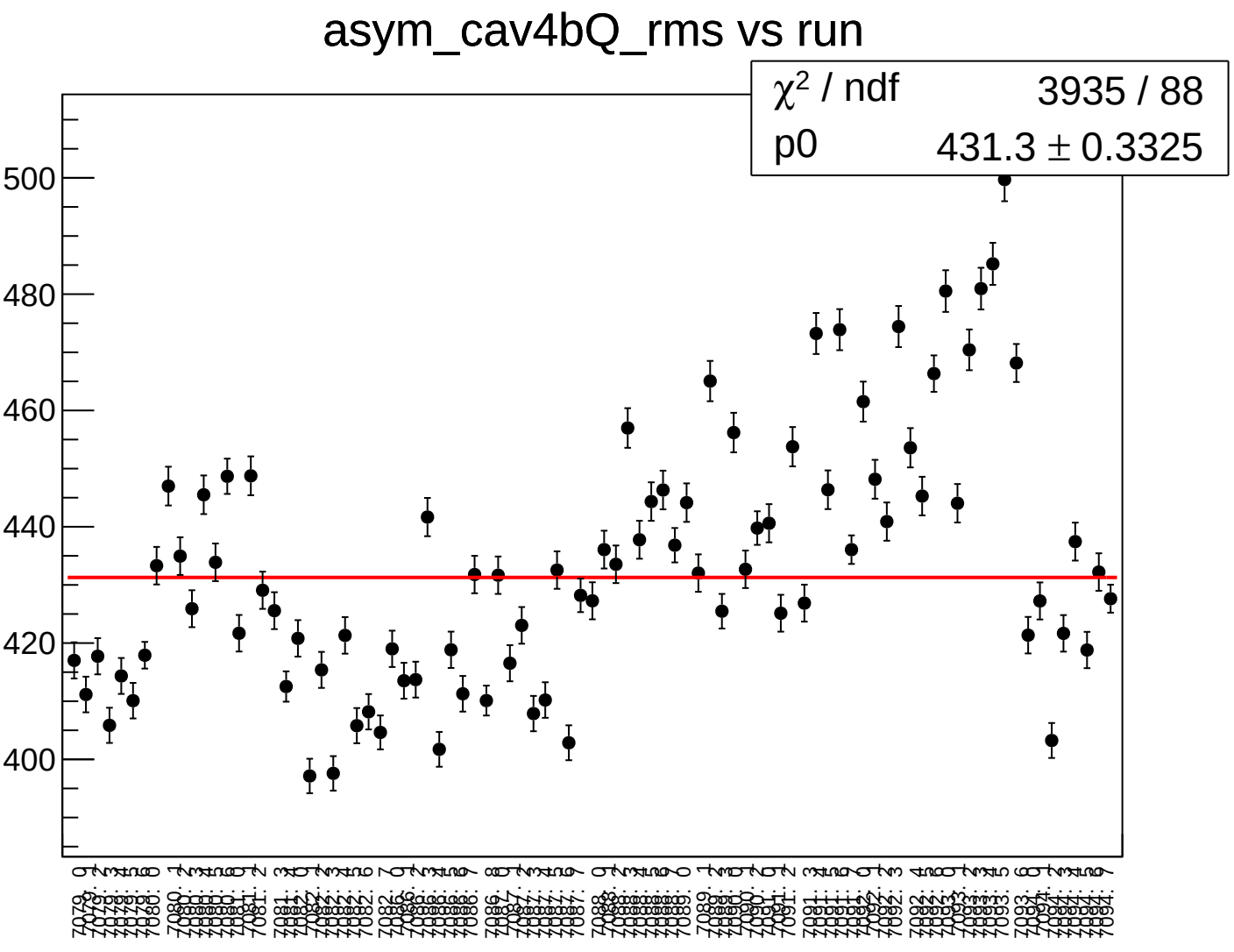

asym_bcm_dg_ds_mean vs run
χ² / ndf 16.31 / 88
p0 157.8 ± 265.1
pull
Entries 89
Mean −100.5
Std Dev 0

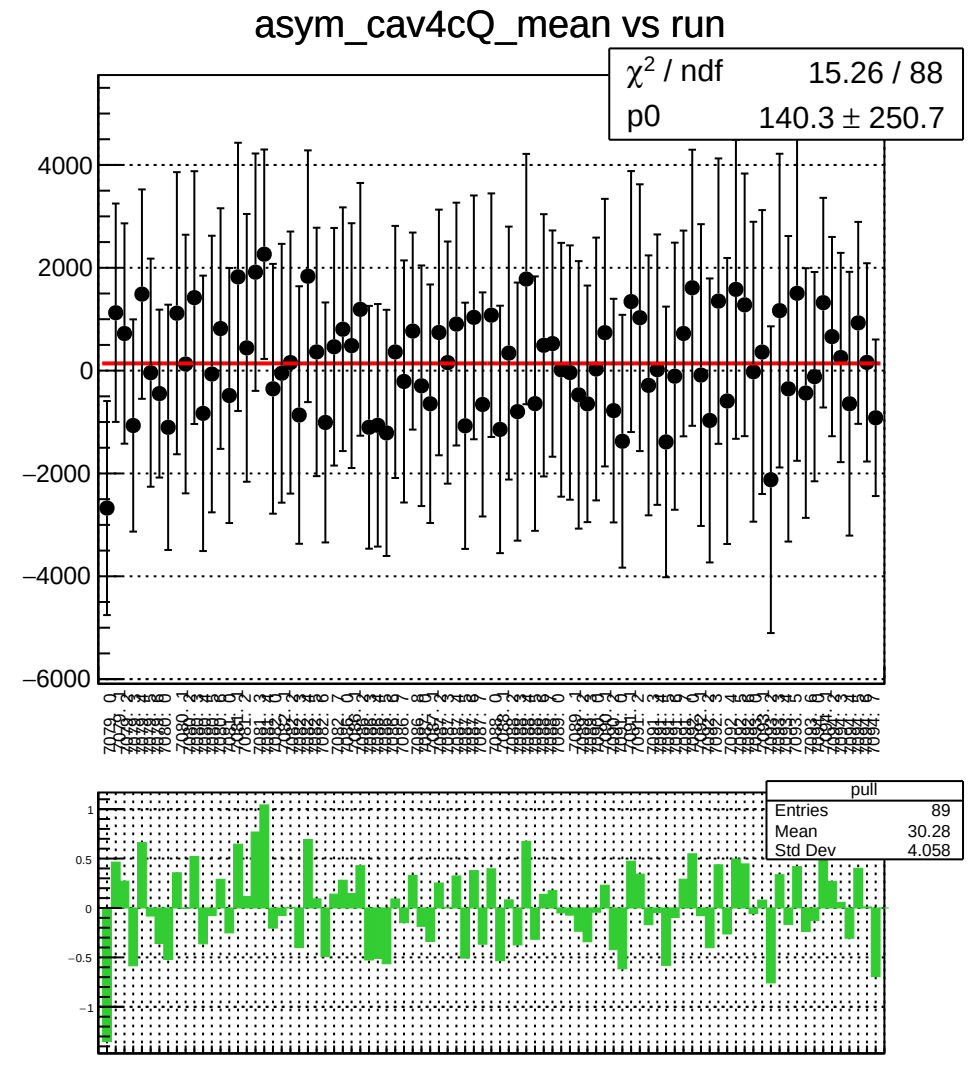

pull1D
Entries 89
Mean −0.002654
Std Dev 0.4281

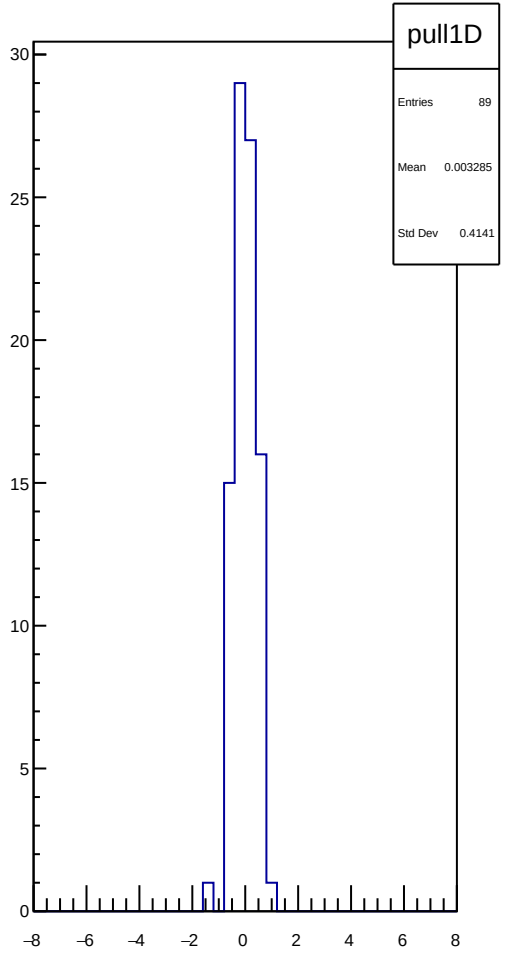

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.811e+04 / 88
p0 242.1 ± 0.1875
320
300
280
260
240
220
200
180

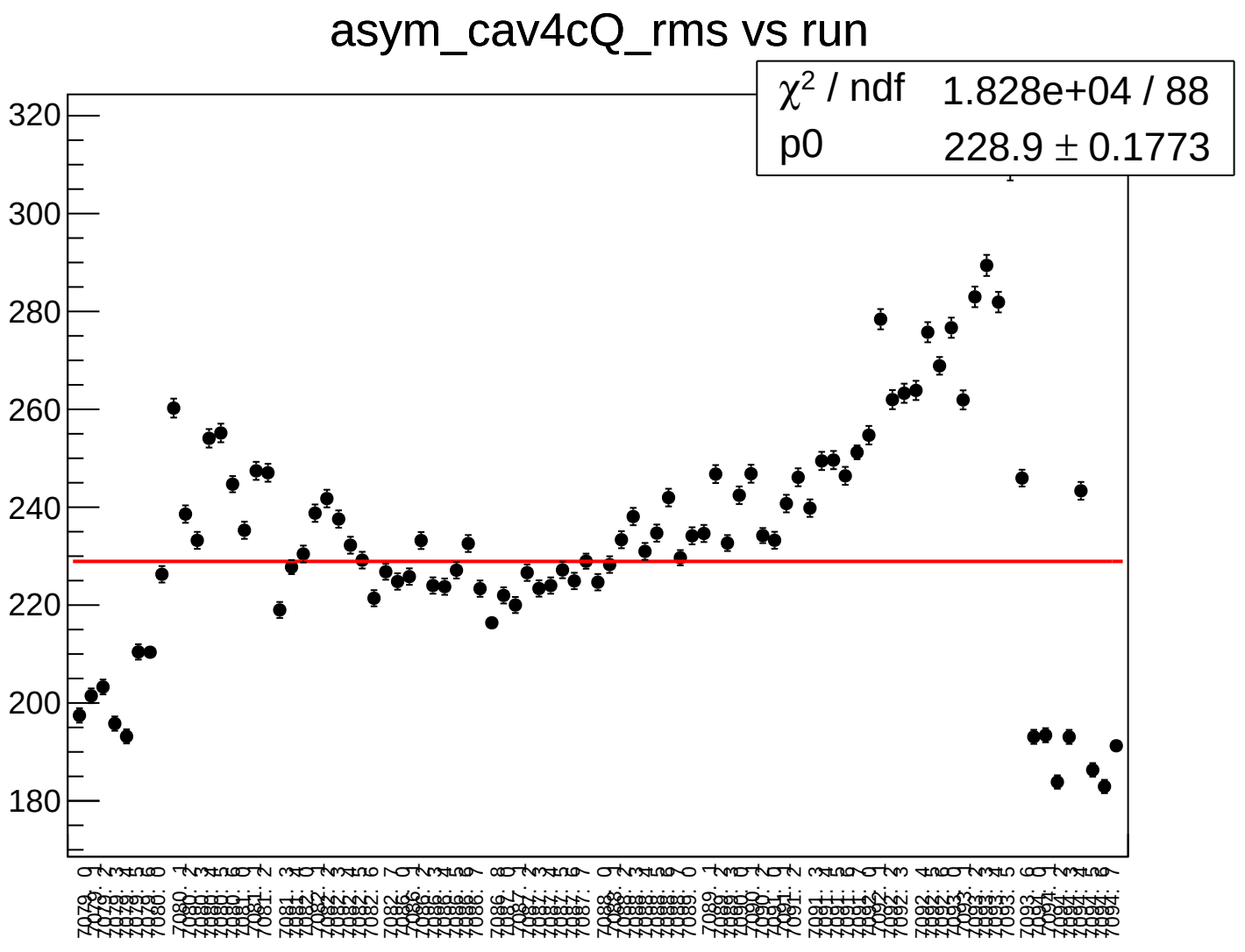

asym_cav4bQ_mean vs run
χ² / ndf 69.82 / 88
p0 −431.3 ± 470.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 3765
Std Dev 0
2
1
0
−1
−2

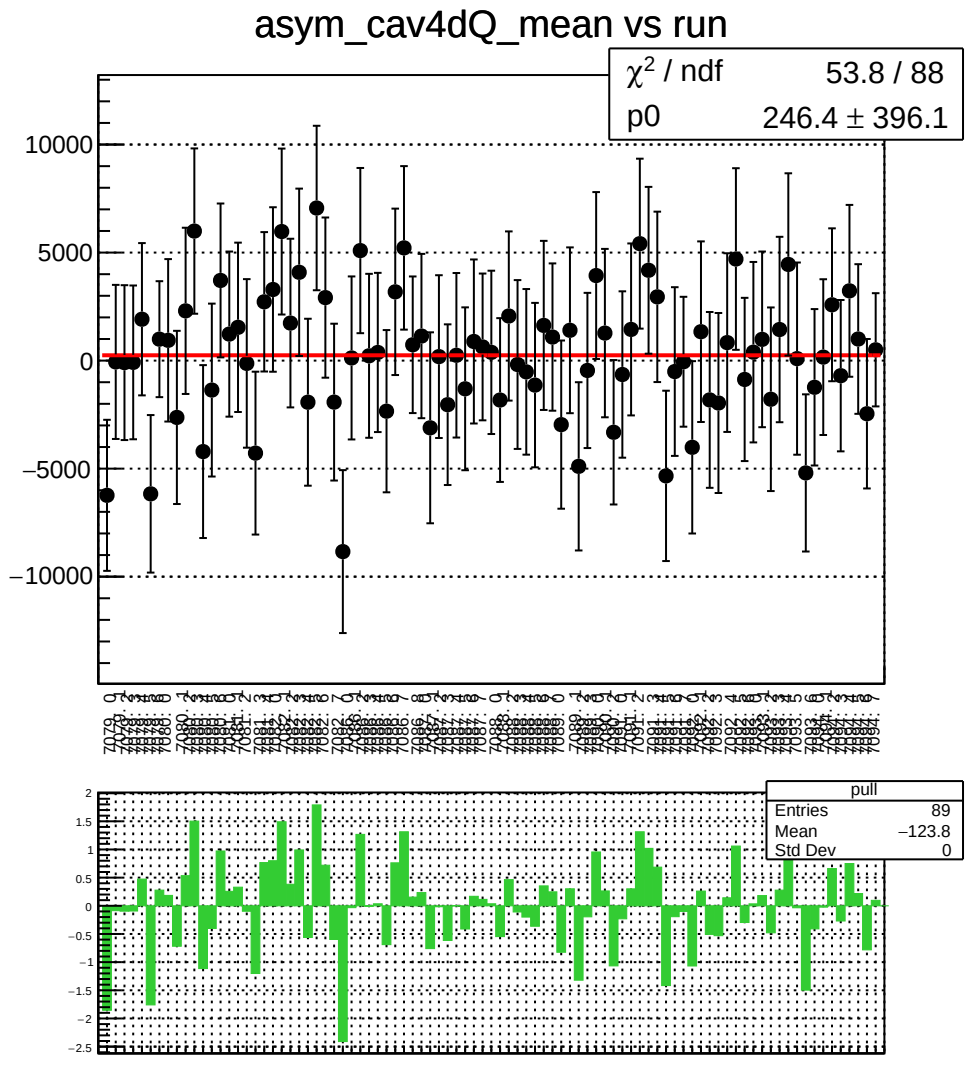

pull1D
Entries 89
Mean 0.001026
Std Dev 0.8857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

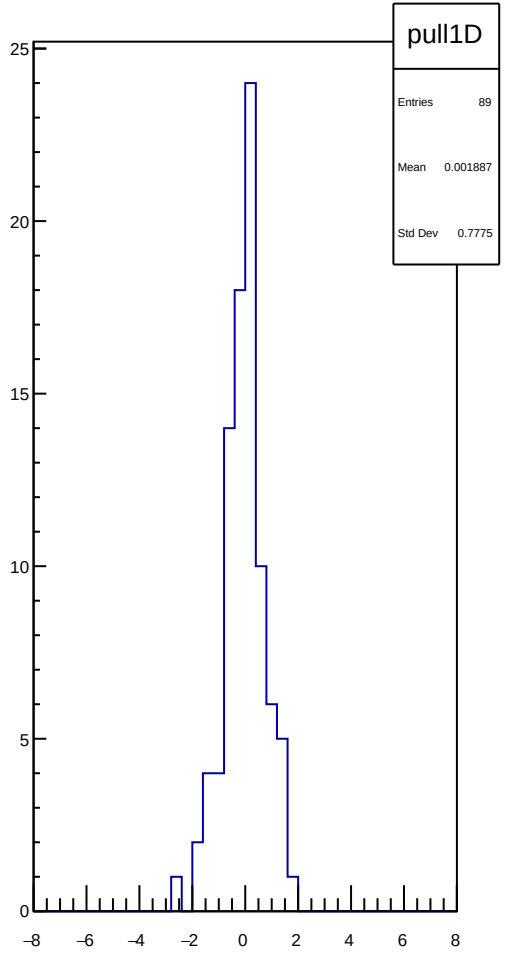

asym_cav4bQ_rms vs run
χ² / ndf 3935 / 88
p0 431.3 ± 0.3325
500
480
460
440
420
400

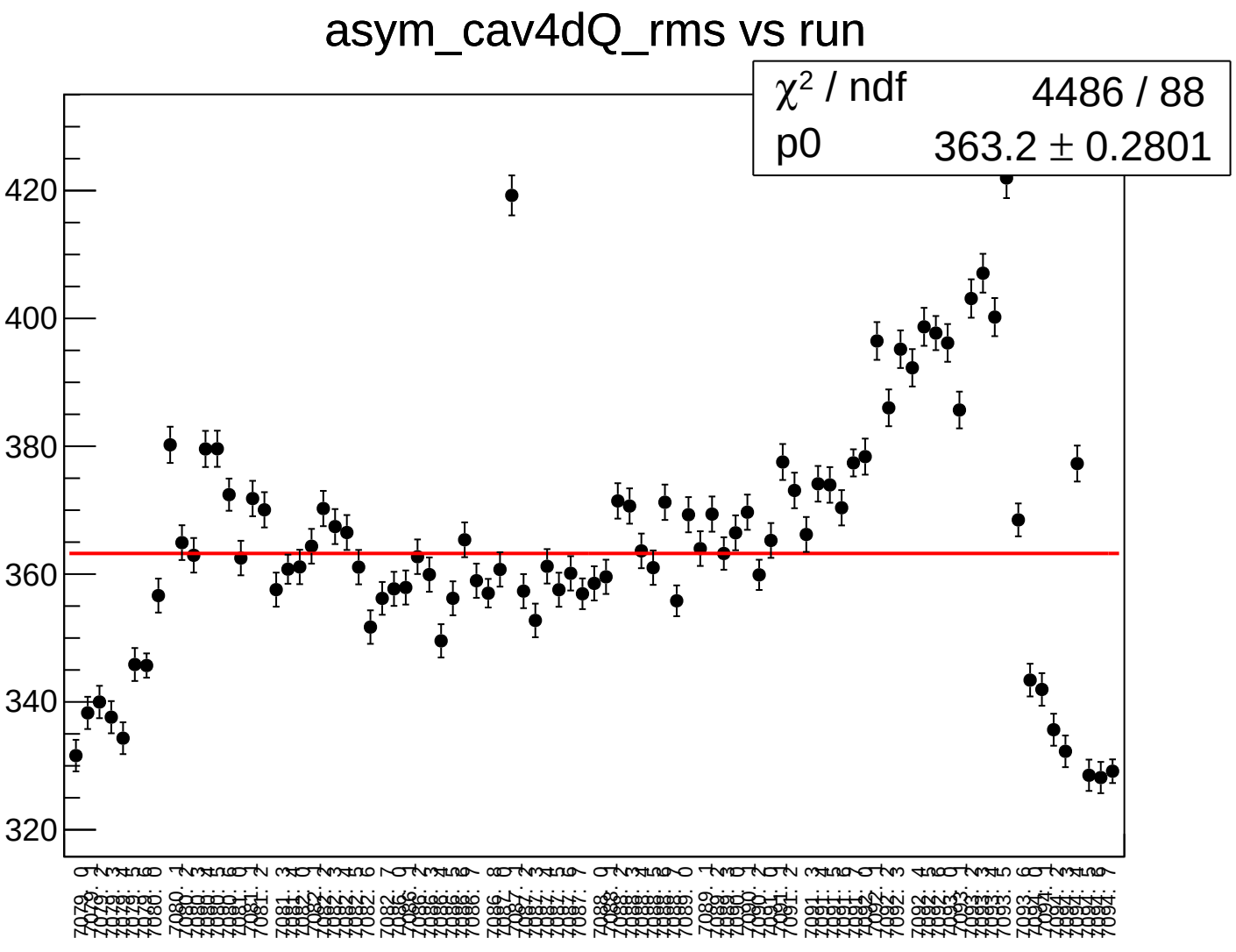

asym_cav4cQ_mean vs run
χ² / ndf 15.26 / 88
p0 140.3 ± 250.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 30.28
Std Dev 4.058
1
0.5
0
−0.5
−1

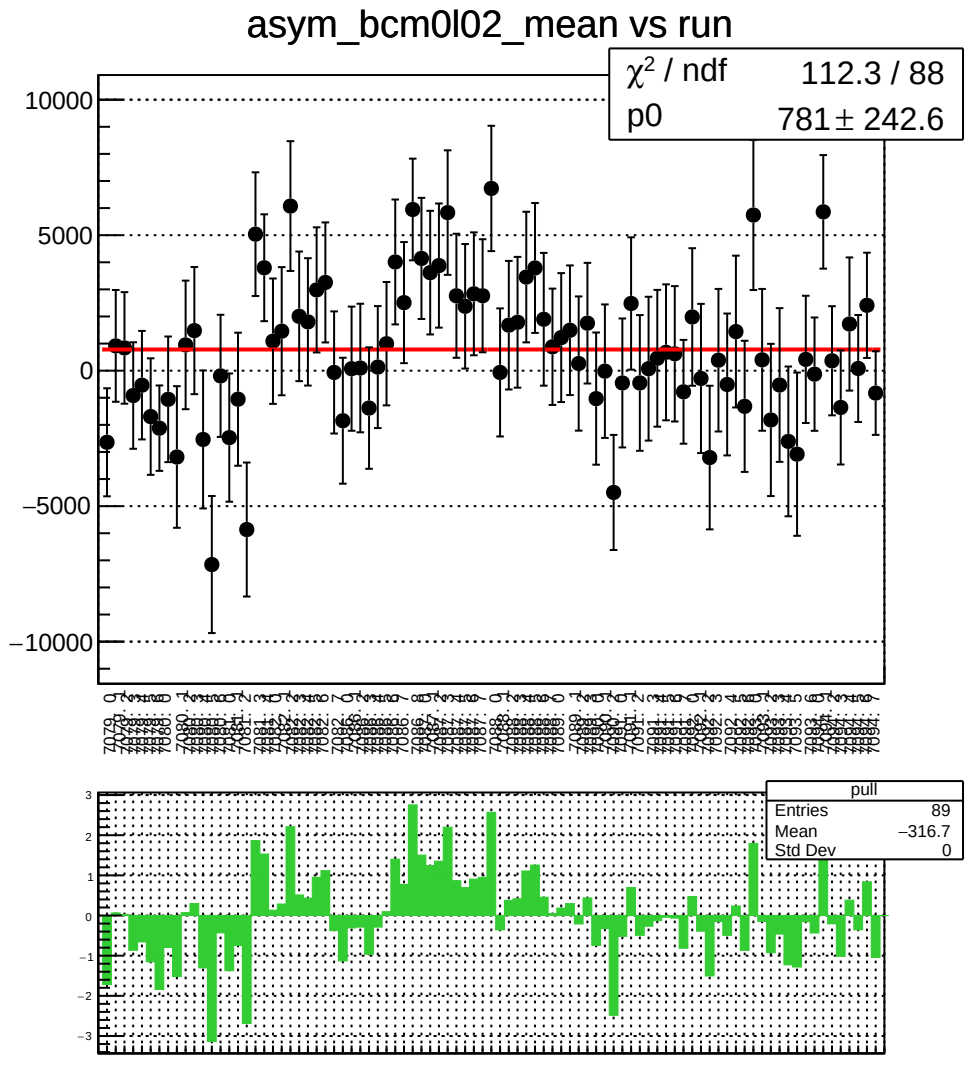

pull1D
Entries 89
Mean 0.003285
Std Dev 0.4141
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

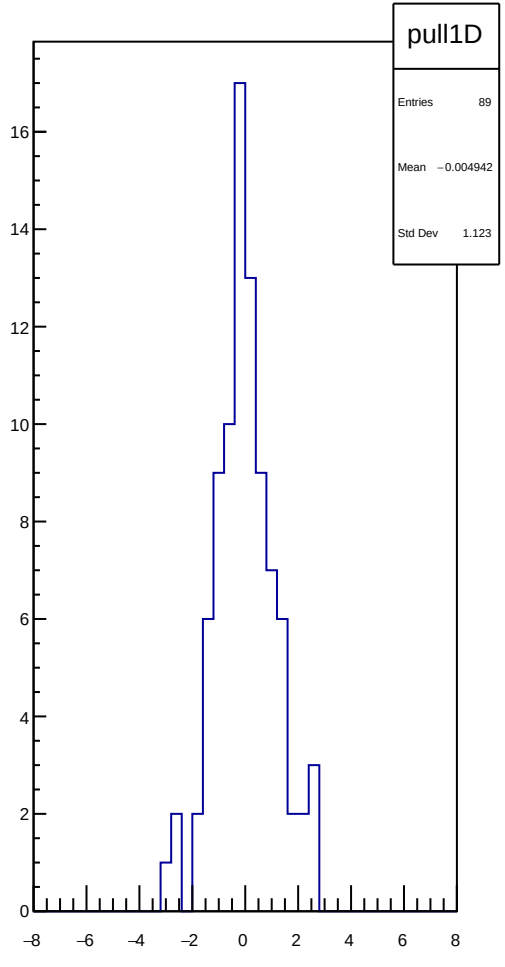

asym_cav4cQ_rms vs run
χ² / ndf 1.828e+04 / 88
p0 228.9 ± 0.1773
320
300
280
260
240
220
200
180

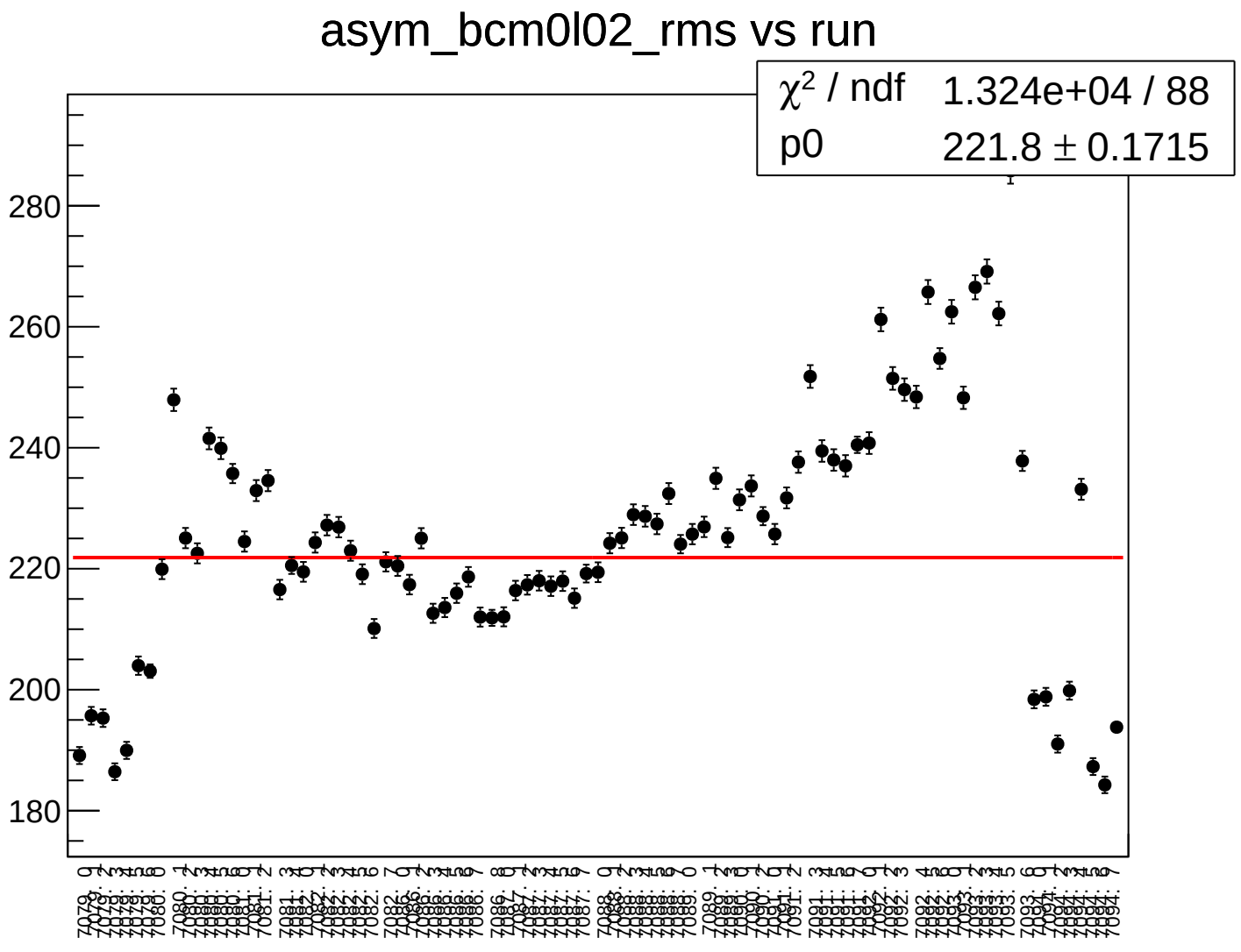

asym_cav4dQ_mean vs run
χ² / ndf 53.8 / 88
p0 246.4 ± 396.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −123.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

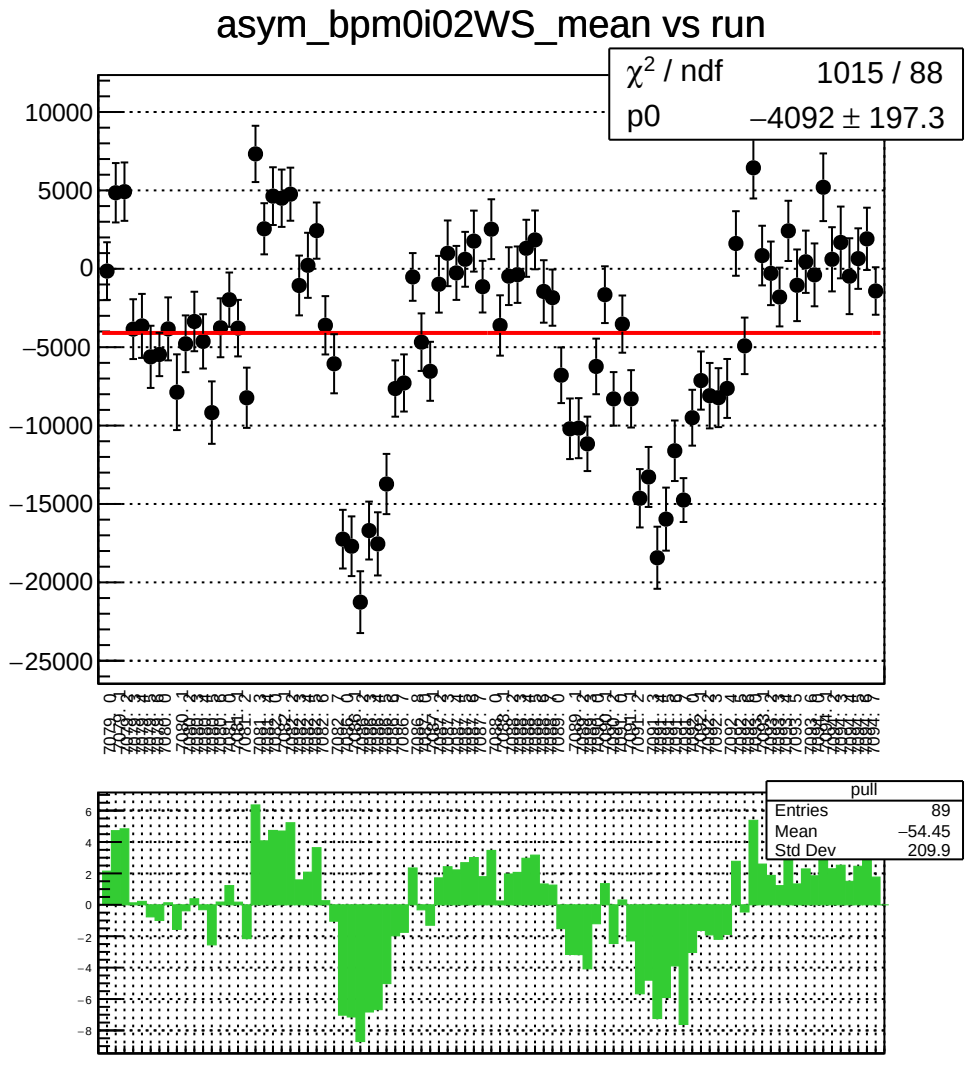

pull1D
Entries 89
Mean 0.001887
Std Dev 0.7775
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

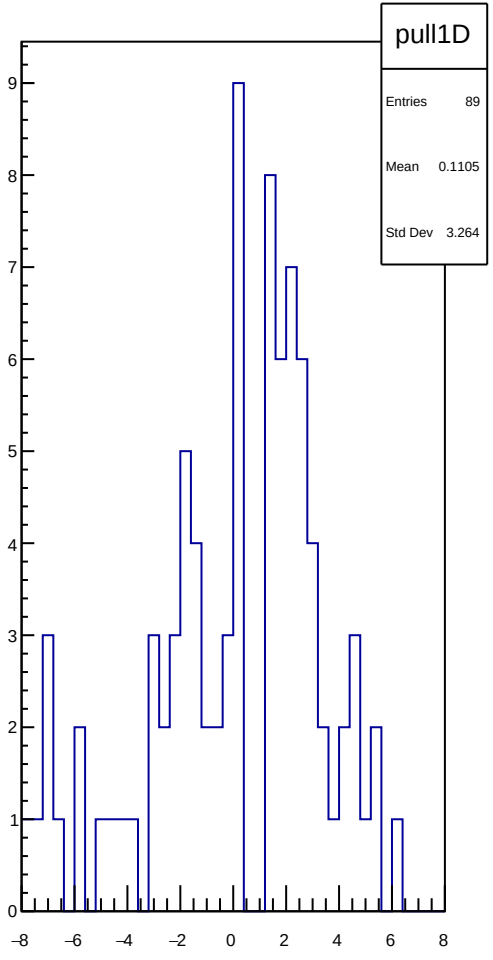

asym_cav4dQ_rms vs run
χ² / ndf 4486 / 88
p0 363.2 ± 0.2801
420
400
380
360
340
320

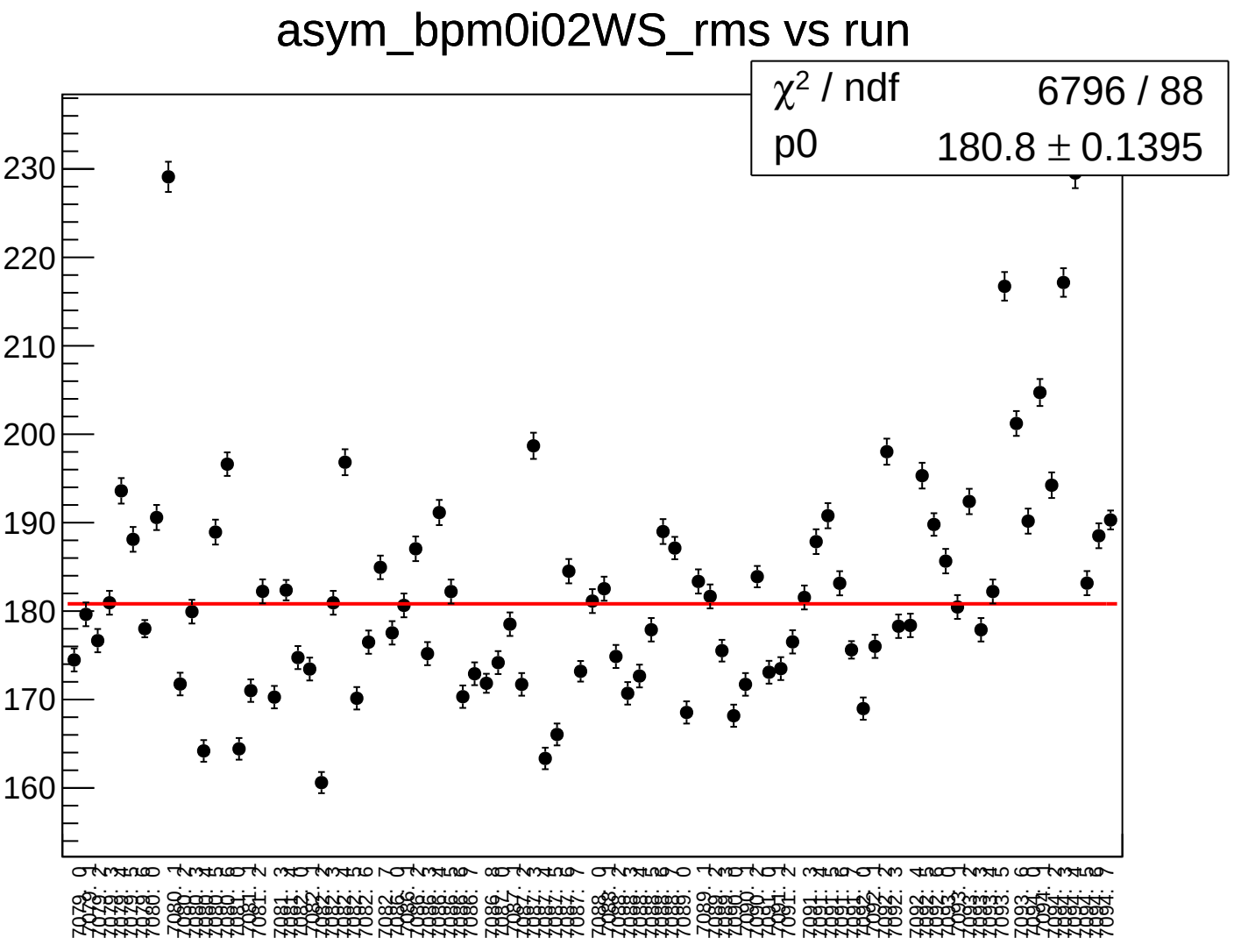

asym_bcm0l02_mean vs run
χ² / ndf 112.3 / 88
p0 781 ± 242.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −316.7
Std Dev 0
3
2
1
0
−1
−2
−3

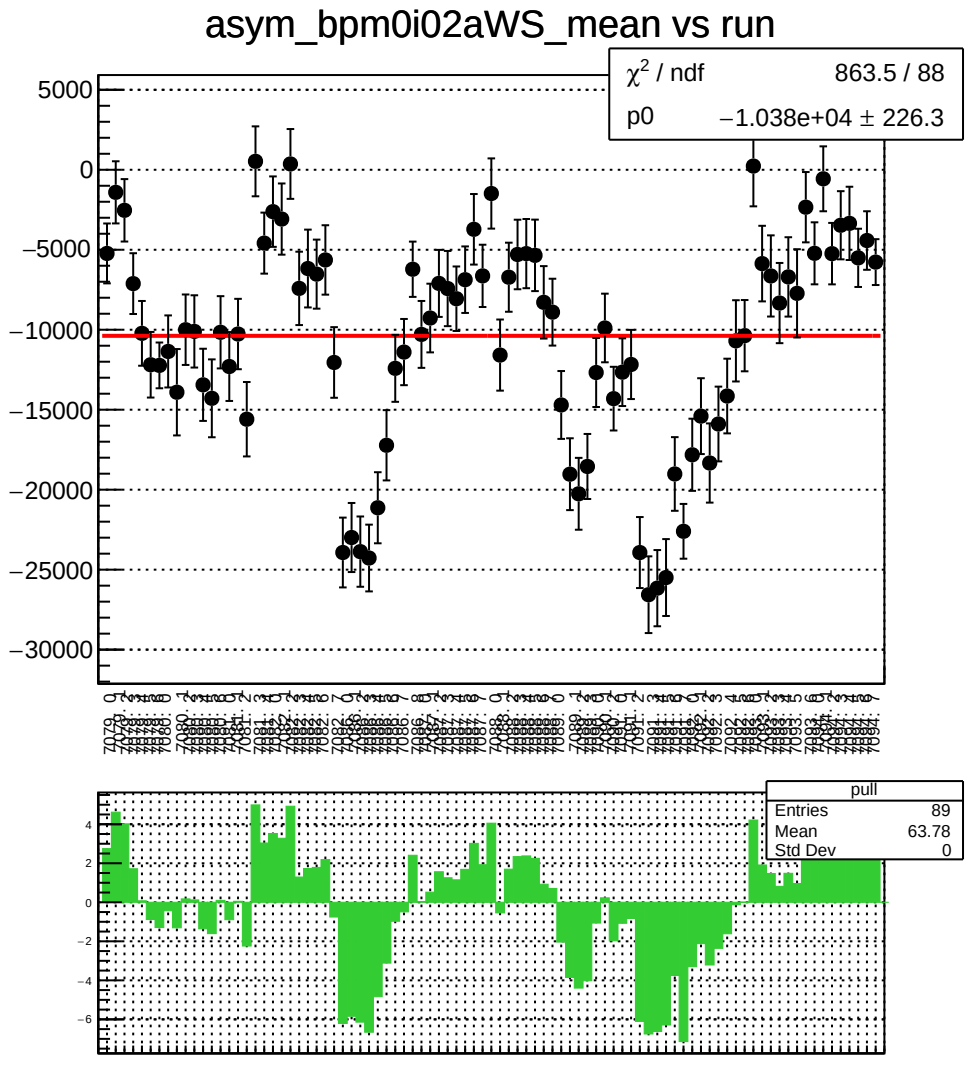

pull1D
Entries 89
Mean −0.004942
Std Dev 1.123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

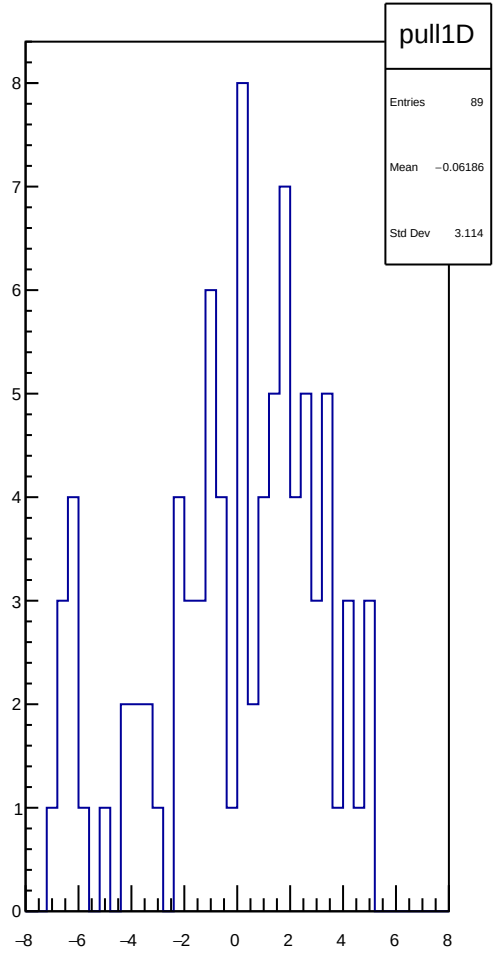

asym_bcm0l02_rms vs run
χ² / ndf 1.324e+04 / 88
p0 221.8 ± 0.1715
280
260
240
220
200
180

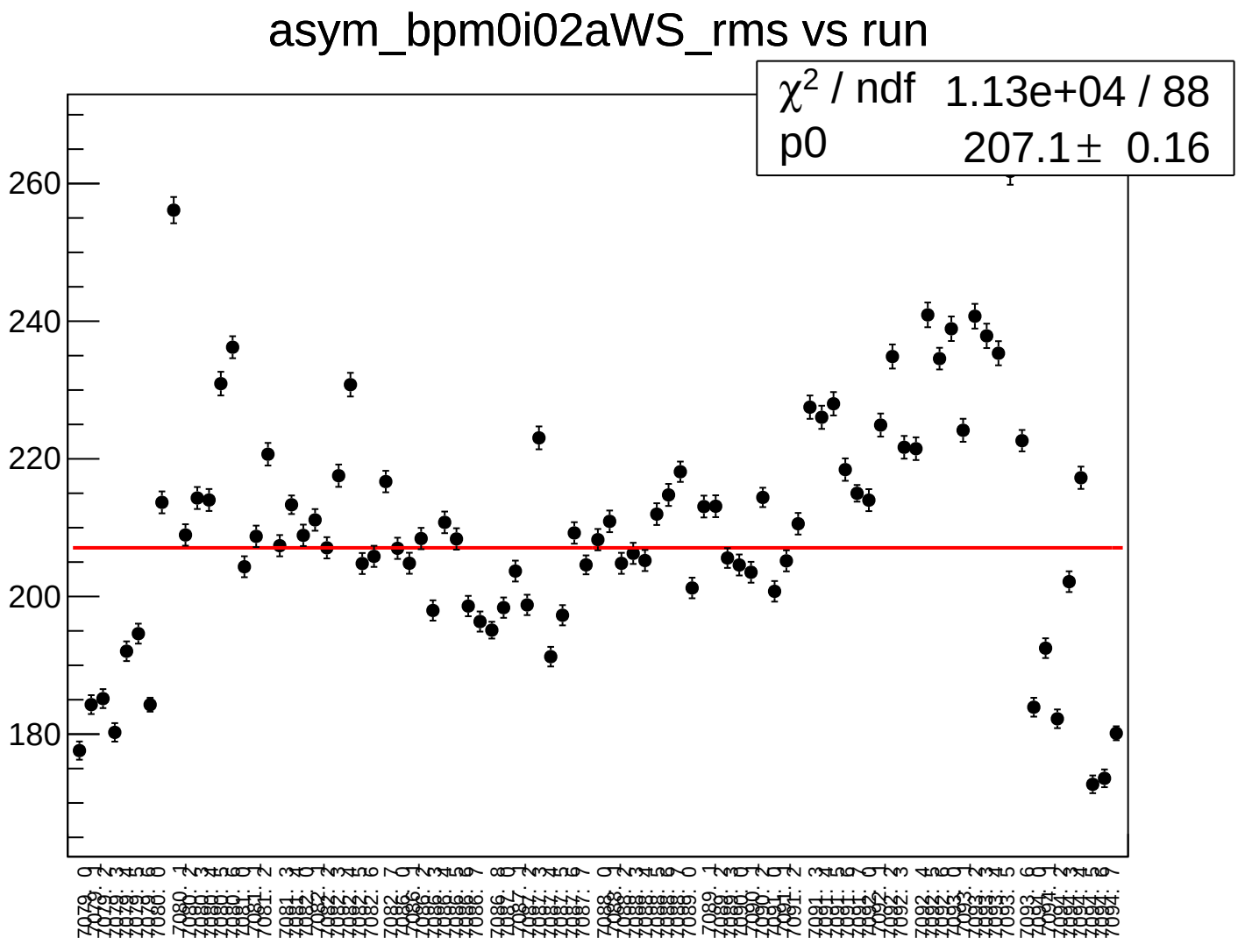

asym_bpm0i02WS_mean vs run
χ² / ndf 1015 / 88
p0 −4092 ± 197.3
pull
Entries 89
Mean −54.45
Std Dev 209.9

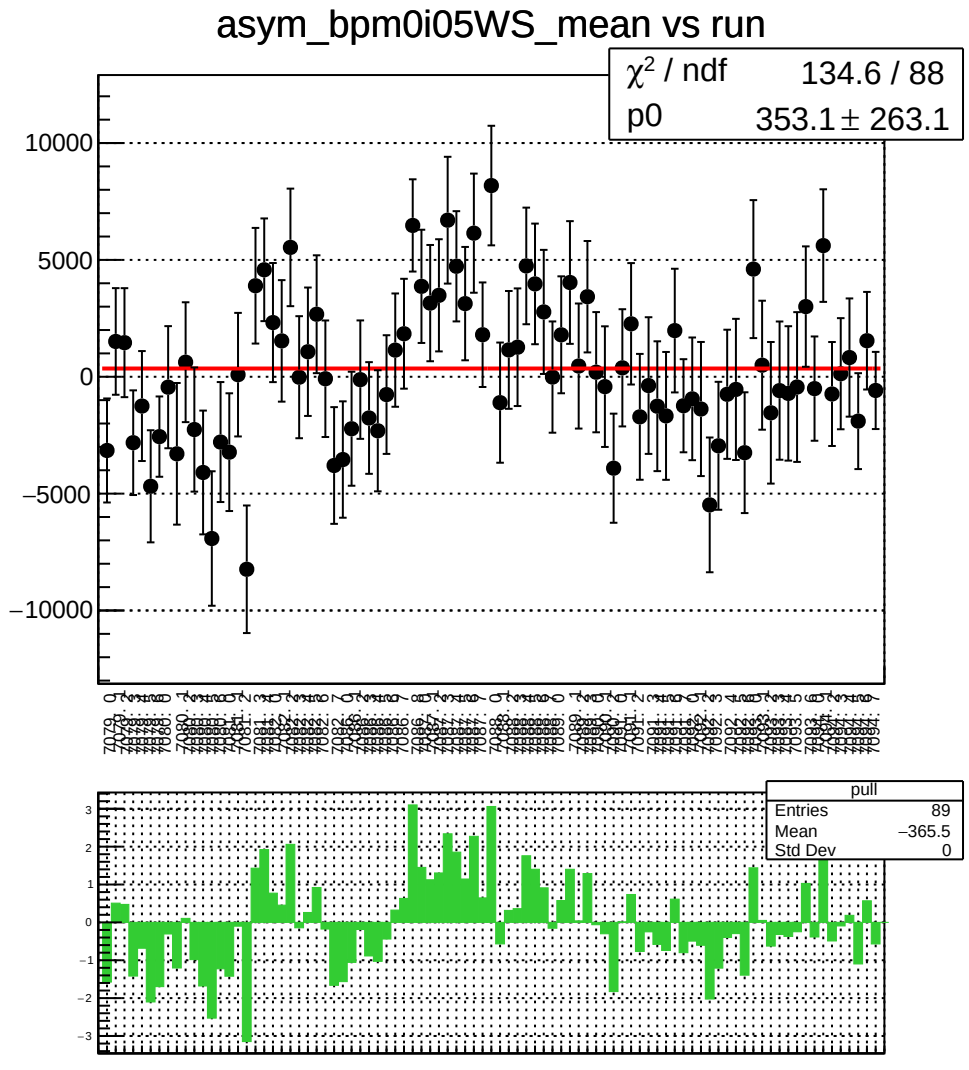

pull1D
Entries 89
Mean 0.1105
Std Dev 3.264

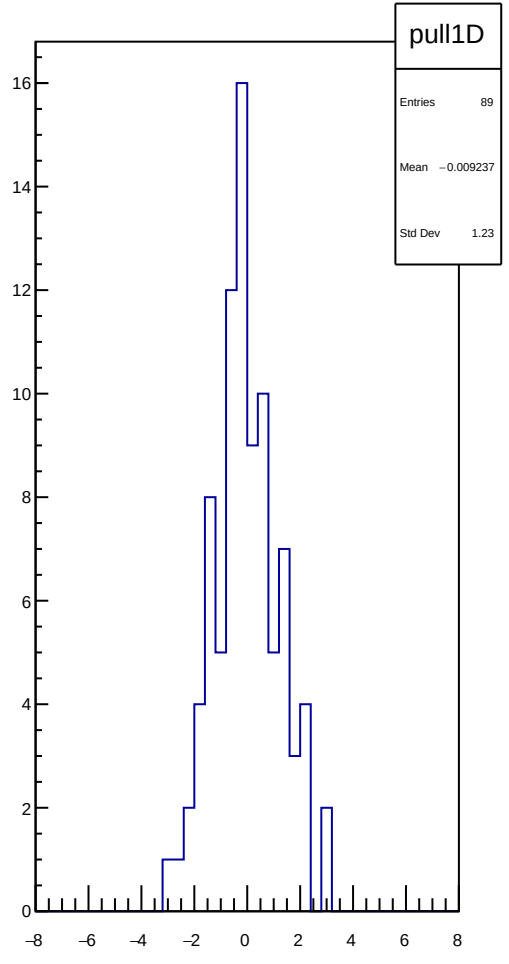

asym_bpm0i02WS_rms vs run
χ² / ndf 6796 / 88
p0 180.8 ± 0.1395
230
220
210
200
190
180
170
160

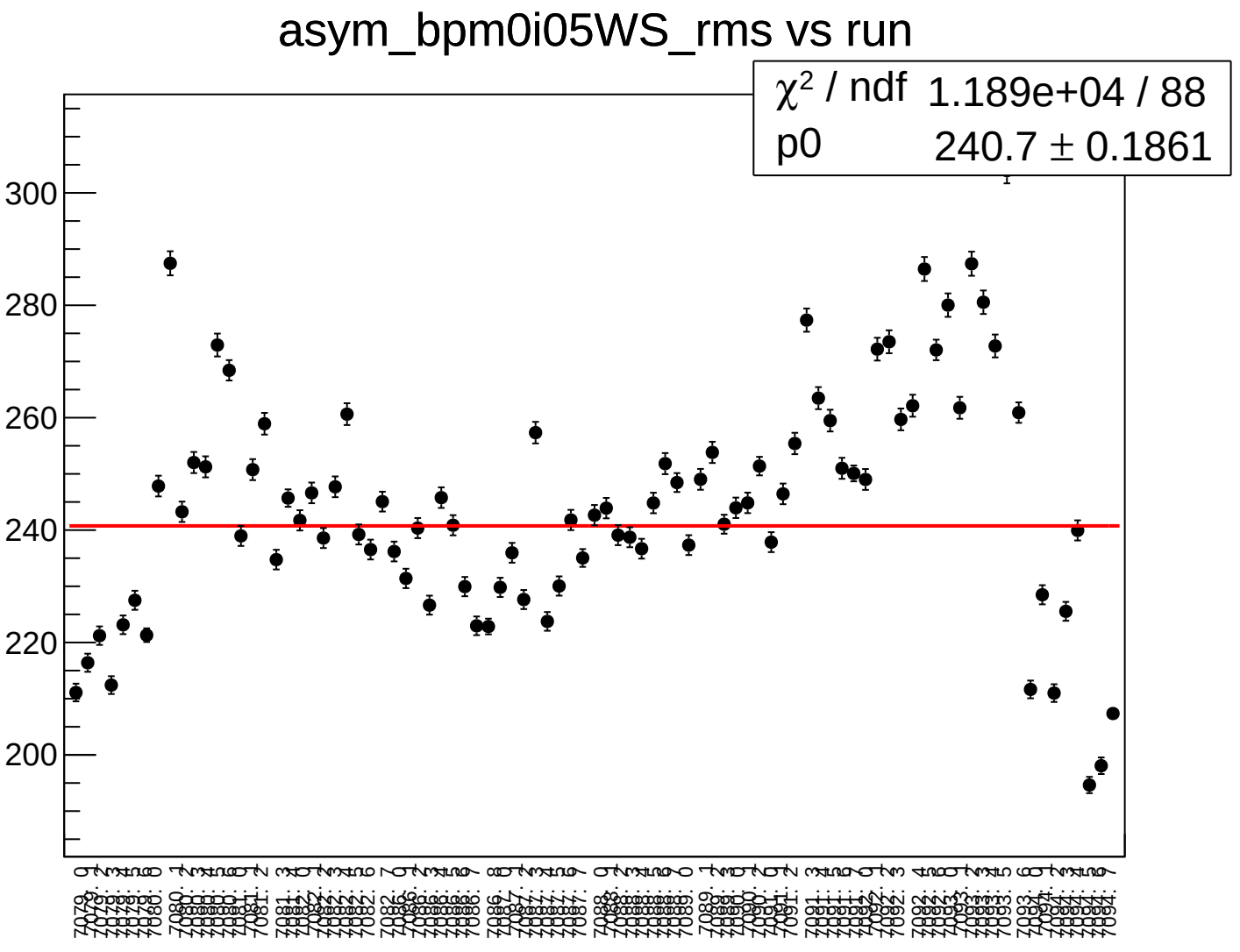

asym_bpm0i02aWS_mean vs run
χ² / ndf 863.5 / 88
p0 −1.038e+04 ± 226.3
pull
Entries 89
Mean 63.78
Std Dev 0

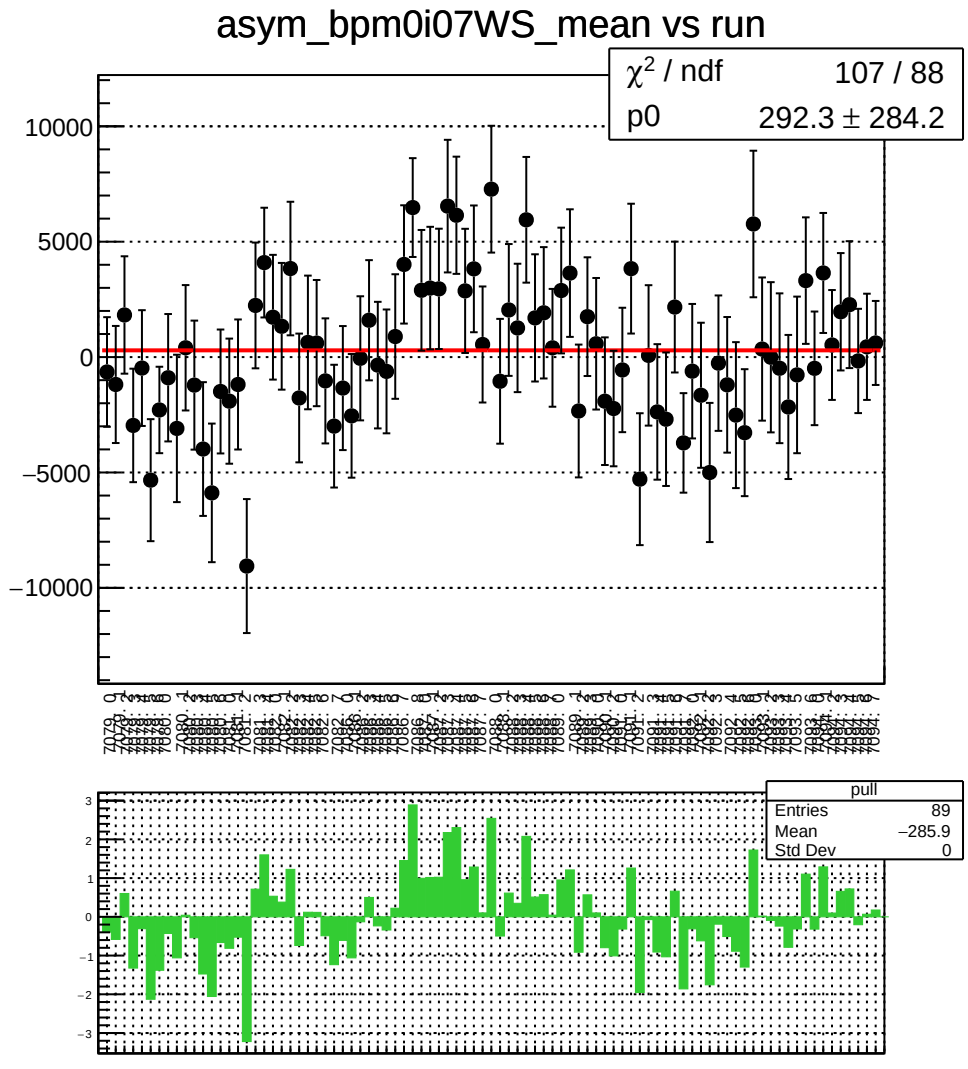

pull1D
Entries 89
Mean −0.06186
Std Dev 3.114

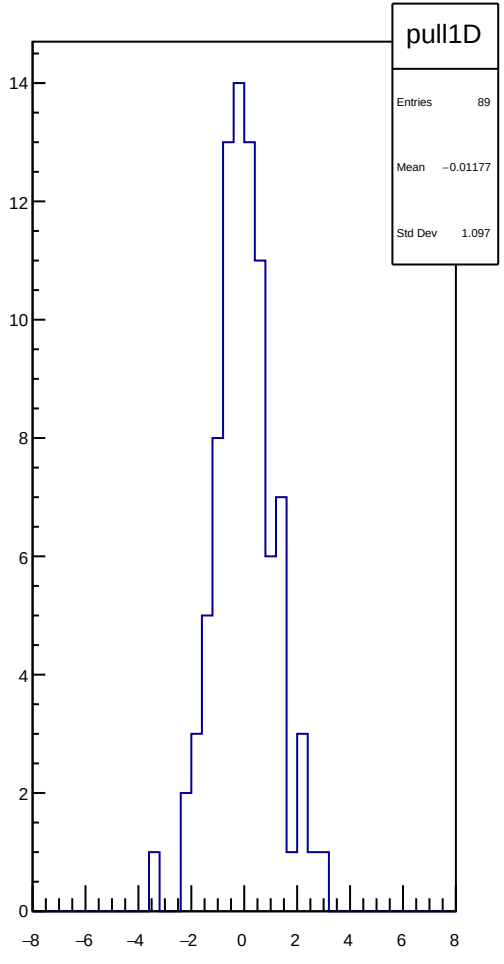

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.13e+04 / 88
p0 207.1 ± 0.16
260
240
220
200
180

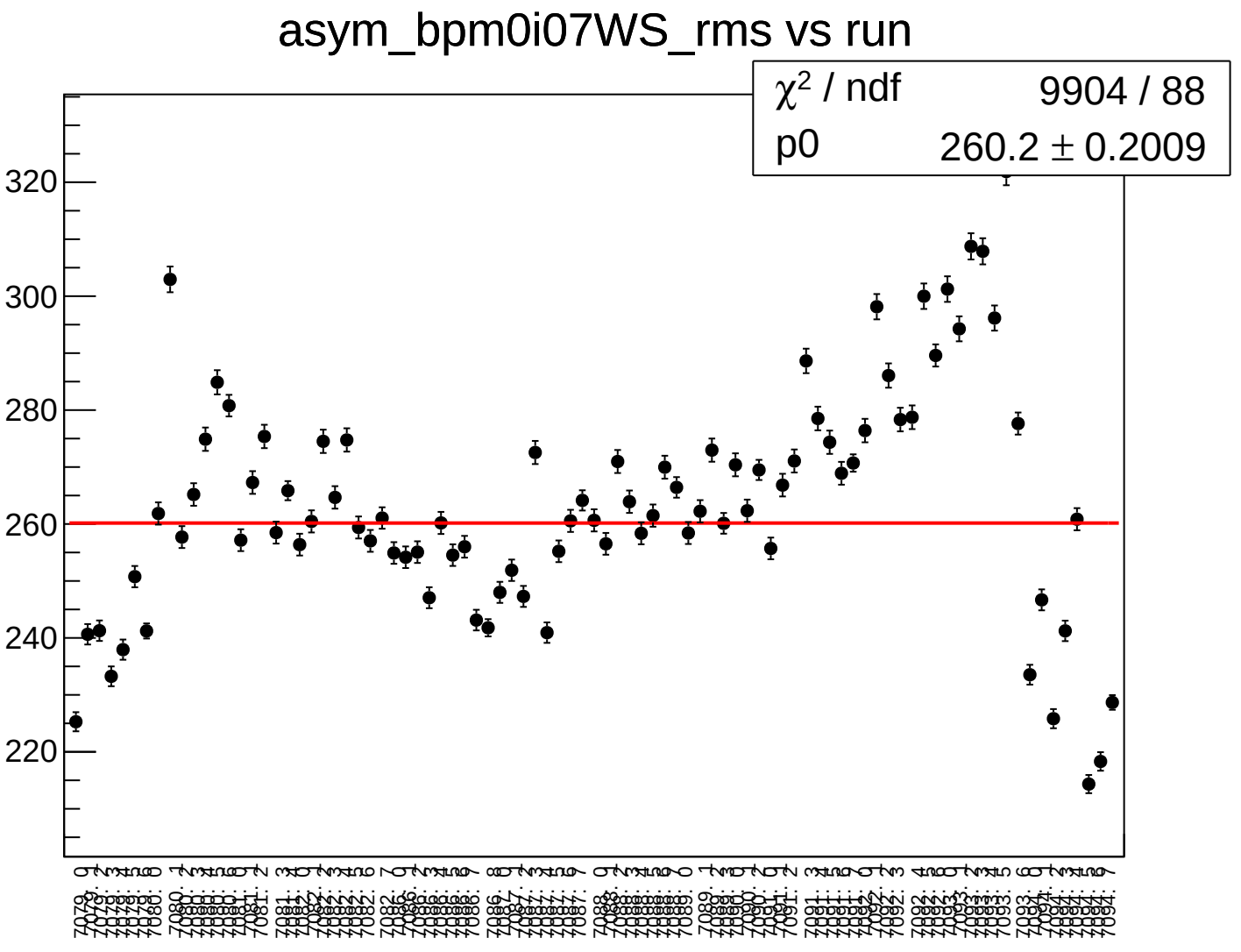

asym_bpm0i05WS_mean vs run
χ² / ndf 134.6 / 88
p0 353.1 ± 263.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −365.5
Std Dev 0
3
2
1
0
−1
−2
−3

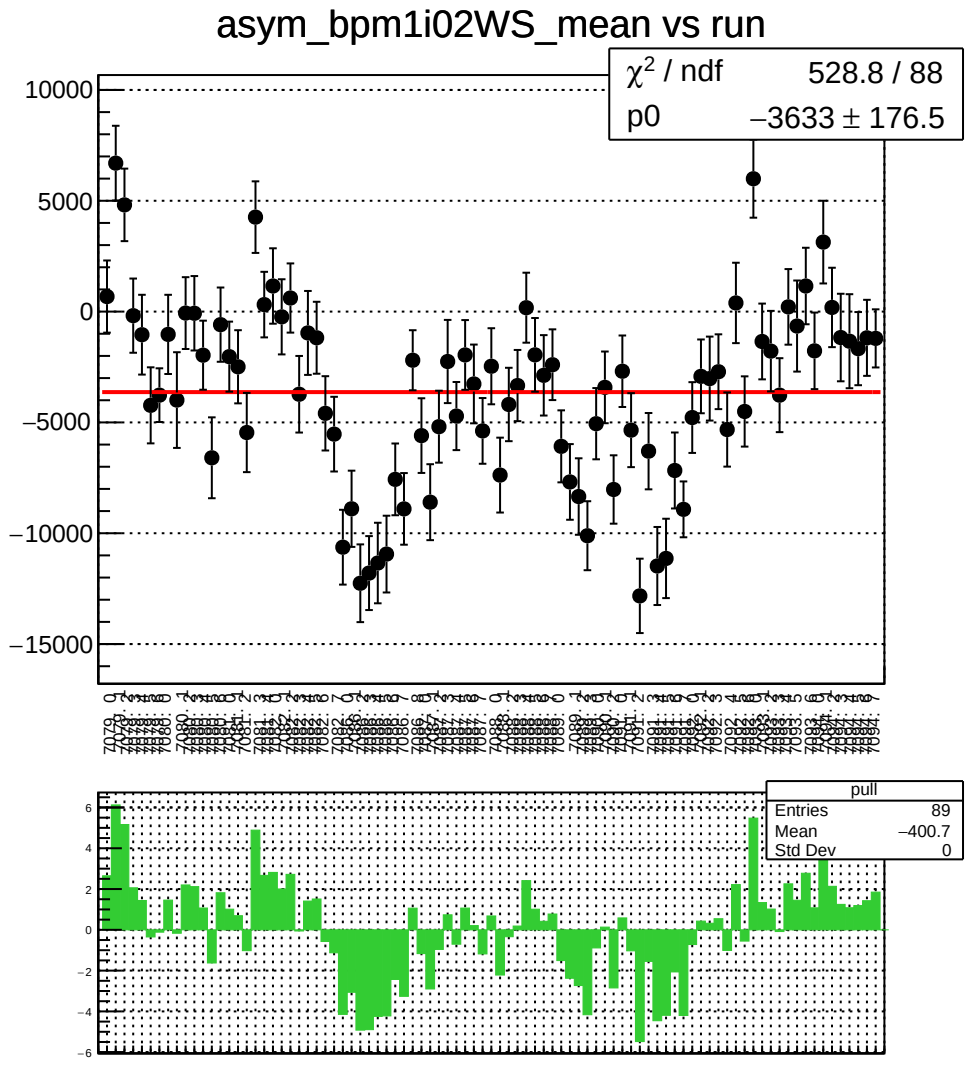

pull1D
Entries 89
Mean −0.009237
Std Dev 1.23
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

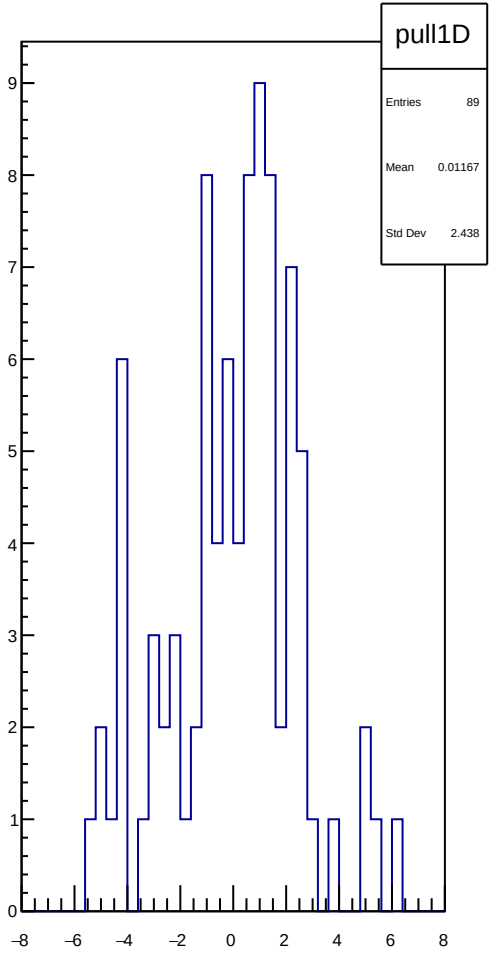

asym_bpm0i05WS_rms vs run
χ² / ndf 1.189e+04 / 88
p0 240.7 ± 0.1861
300
280
260
240
220
200

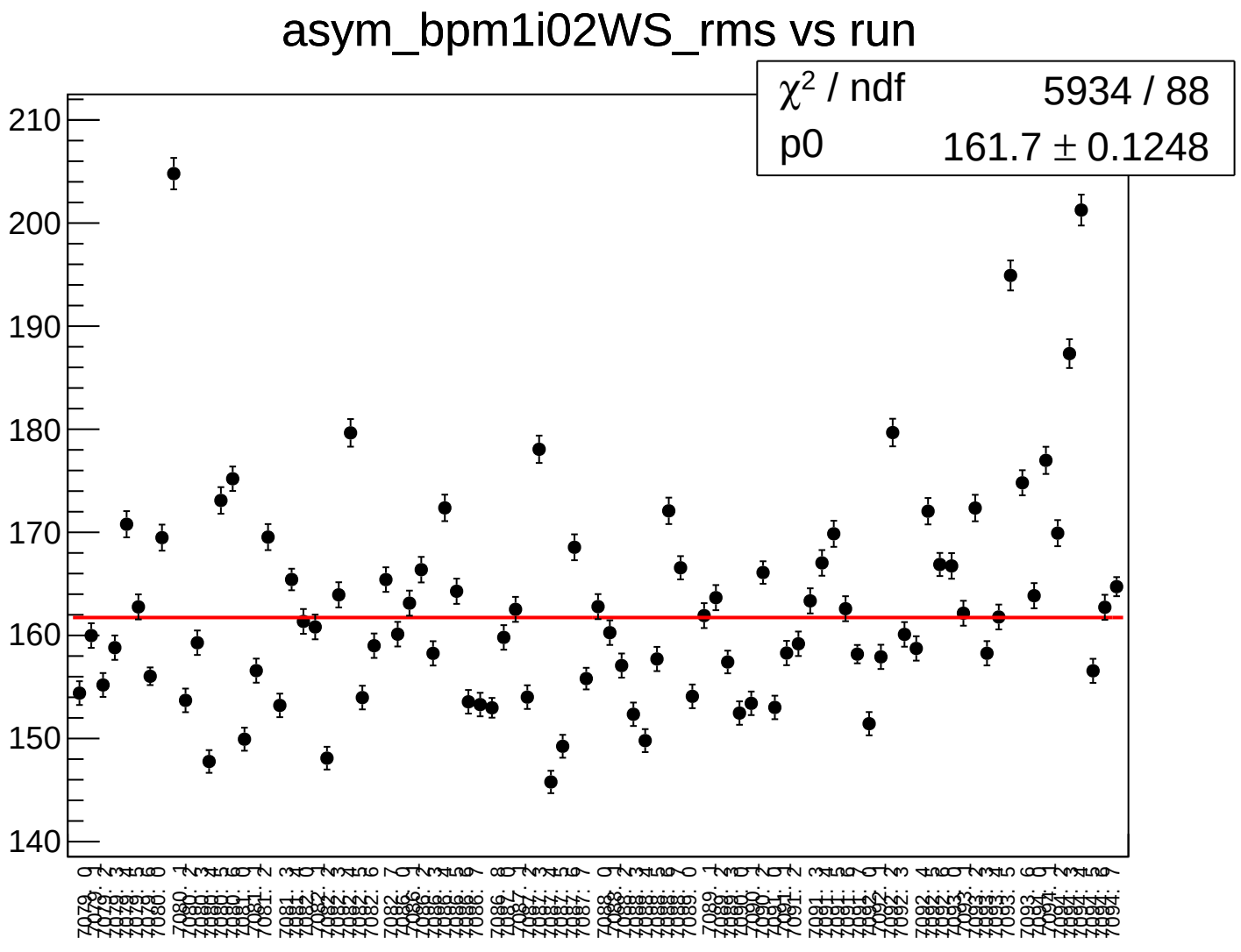

asym_bpm0i07WS_mean vs run
χ² / ndf 107 / 88
p0 292.3 ± 284.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −285.9
Std Dev 0
3
2
1
0
−1
−2
−3

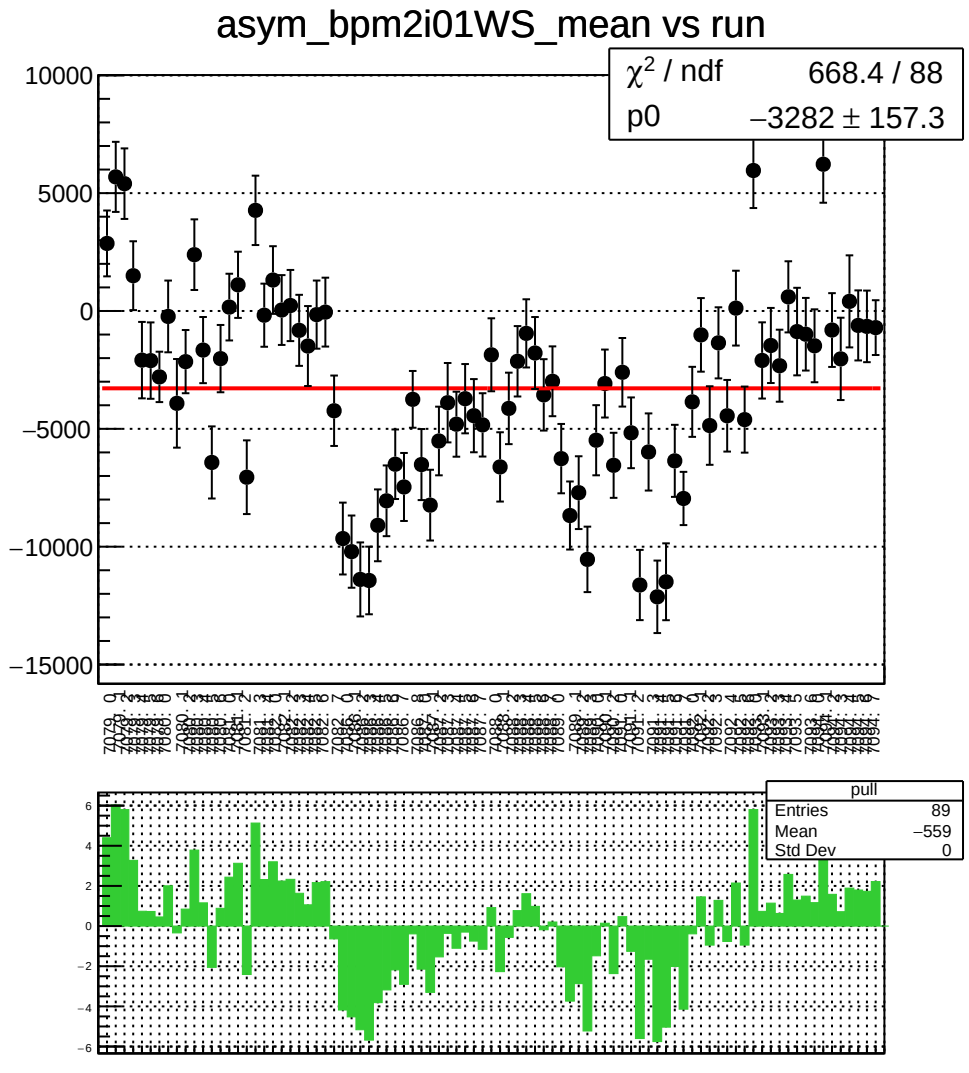

pull1D
Entries 89
Mean −0.01177
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

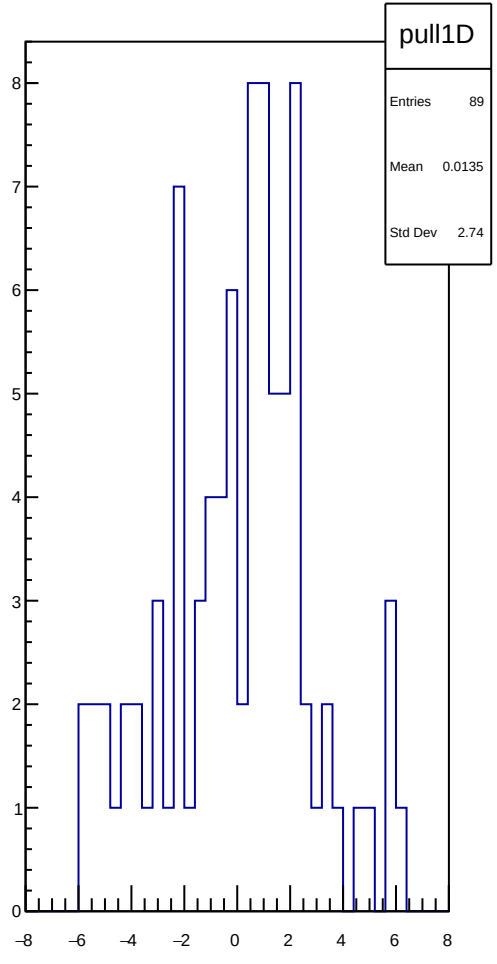

asym_bpm0i07WS_rms vs run
χ² / ndf 9904 / 88
p0 260.2 ± 0.2009
320
300
280
260
240
220

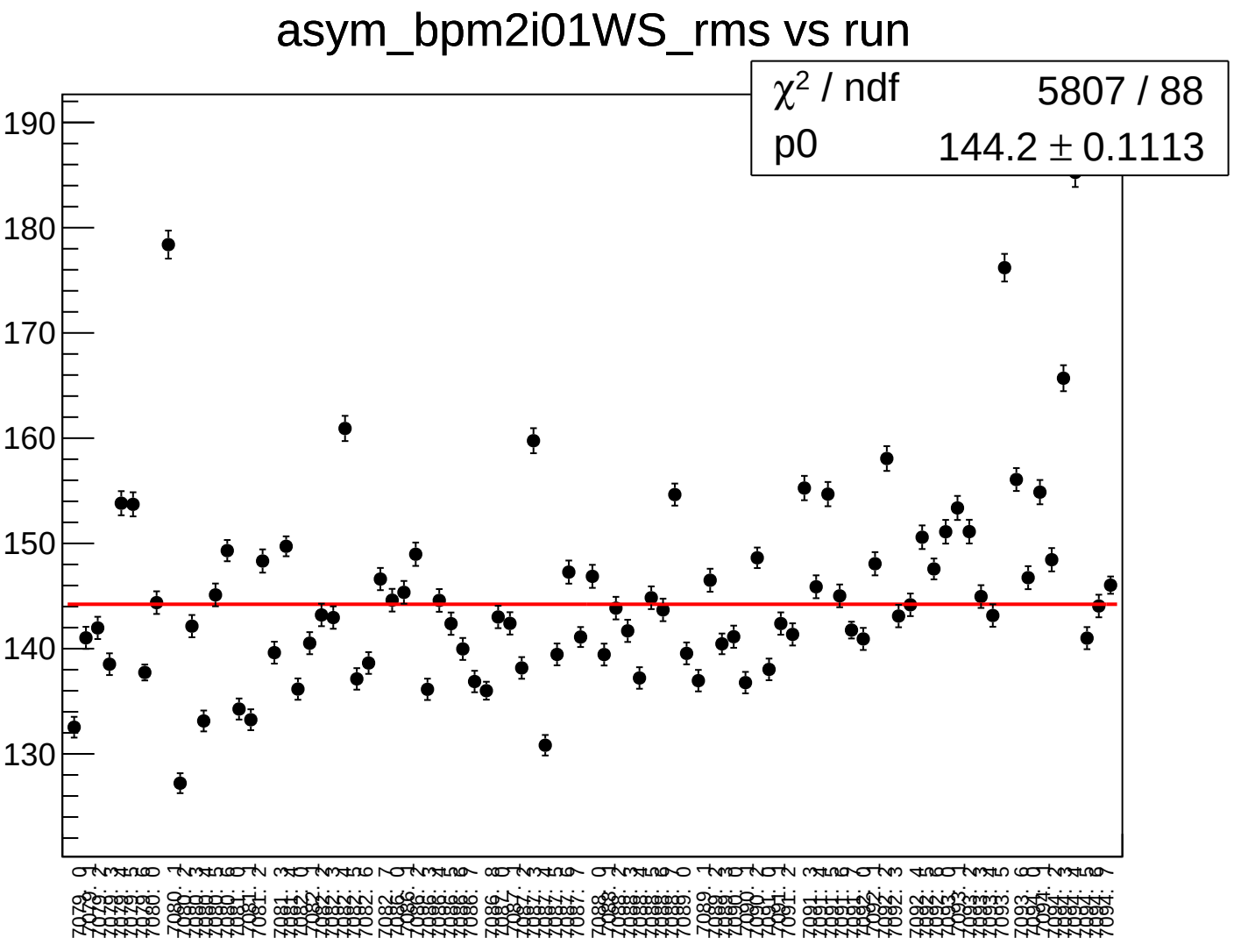

asym_bpm1i02WS_mean vs run
χ² / ndf 528.8 / 88
p0 −3633 ± 176.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −400.7
Std Dev 0
6
4
2
0
−2
−4
−6

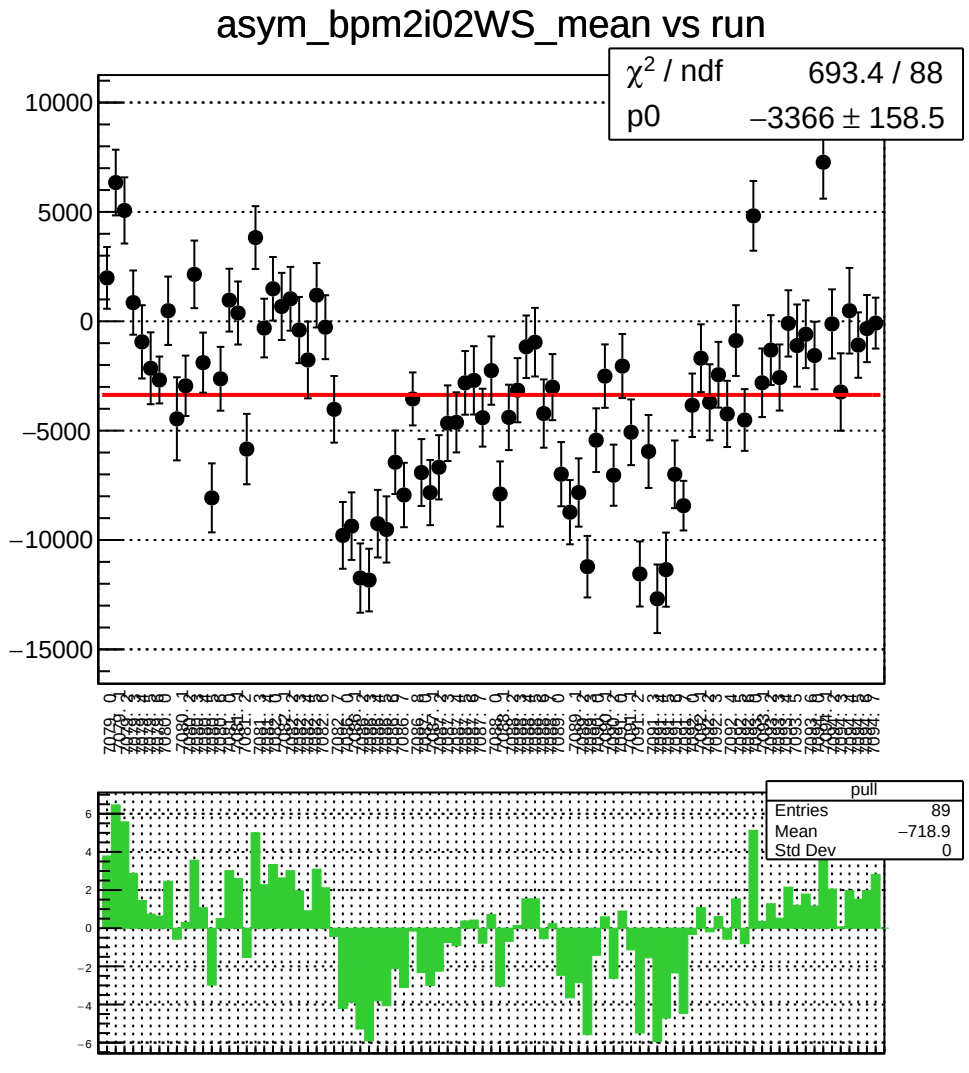

pull1D
Entries 89
Mean 0.01167
Std Dev 2.438
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

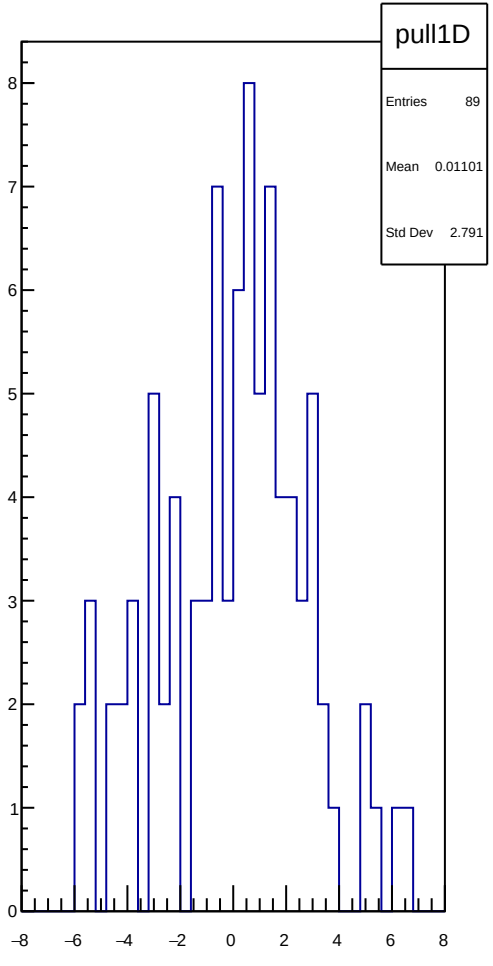

asym_bpm1i02WS_rms vs run
χ² / ndf 5934 / 88
p0 161.7 ± 0.1248
210
200
190
180
170
160
150
140

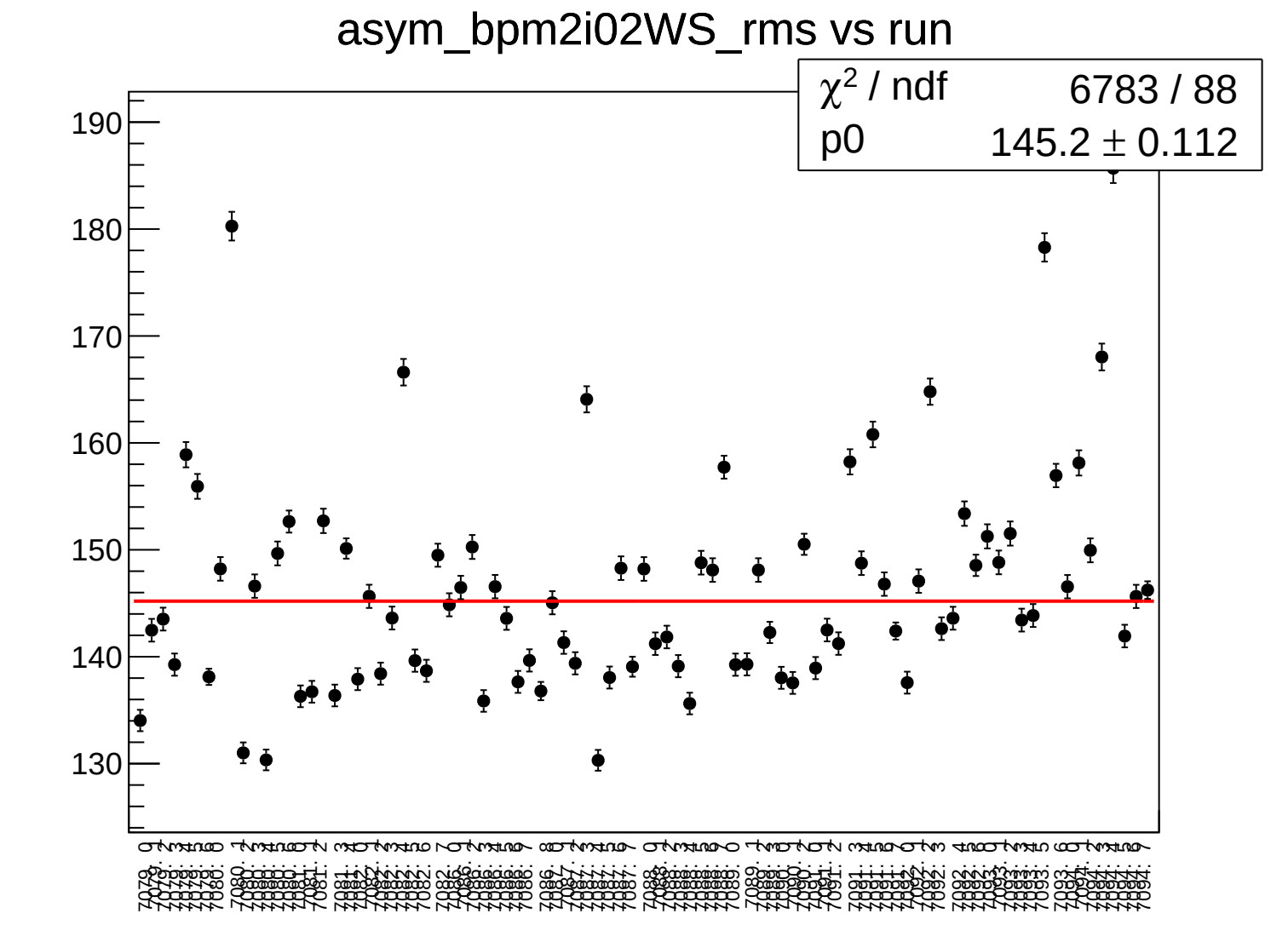

asym_bpm2i01WS_mean vs run
χ^2 / ndf 668.4 / 88
p0 −3282 ± 157.3
pull
Entries 89
Mean −559
Std Dev 0

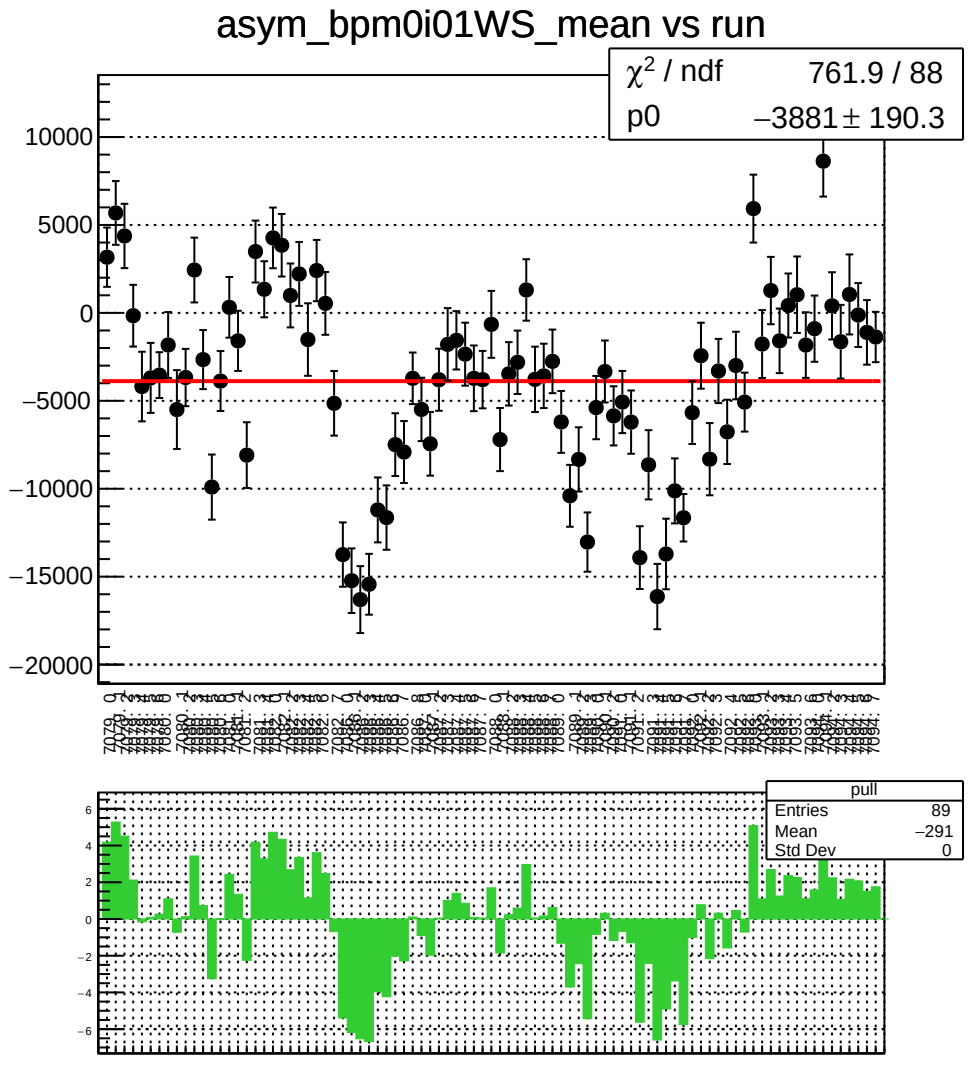

pull1D
Entries 89
Mean 0.0135
Std Dev 2.74

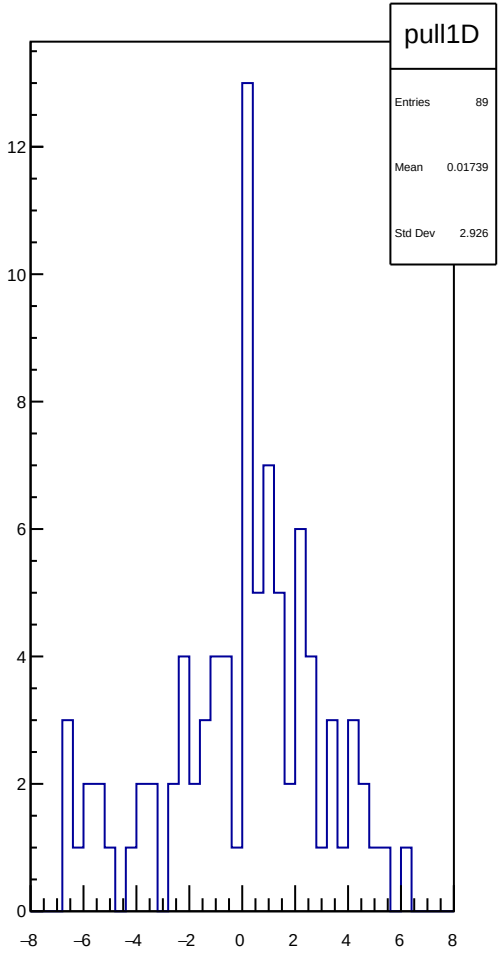

asym_bpm2i01WS_rms vs run
χ² / ndf 5807 / 88
p0 144.2 ± 0.1113
190
180
170
160
150
140
130

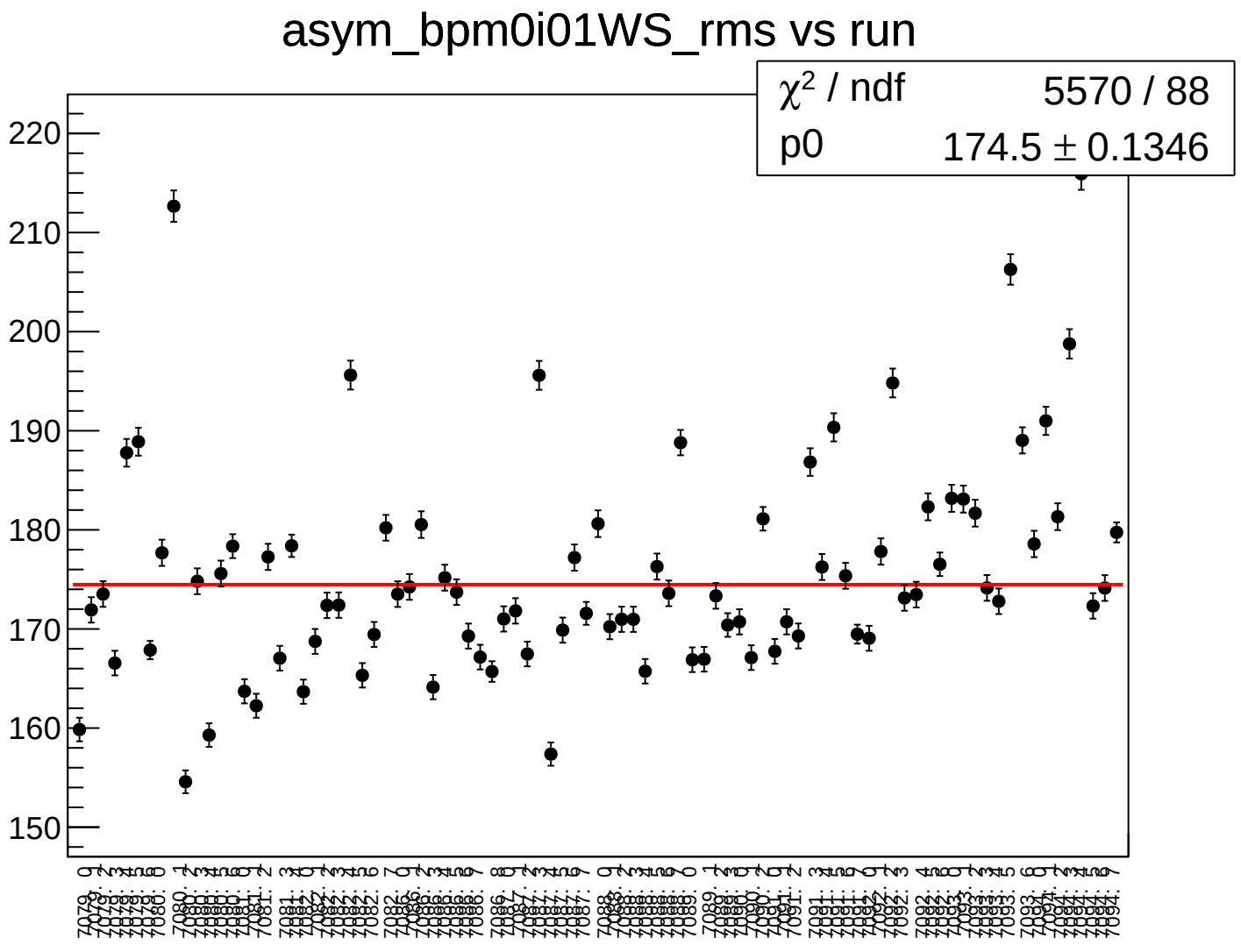

asym_bpm2i02WS_mean vs run
χ² / ndf 693.4 / 88
p0 −3366 ± 158.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −718.9
Std Dev 0
6
4
2
0
−2
−4
−6

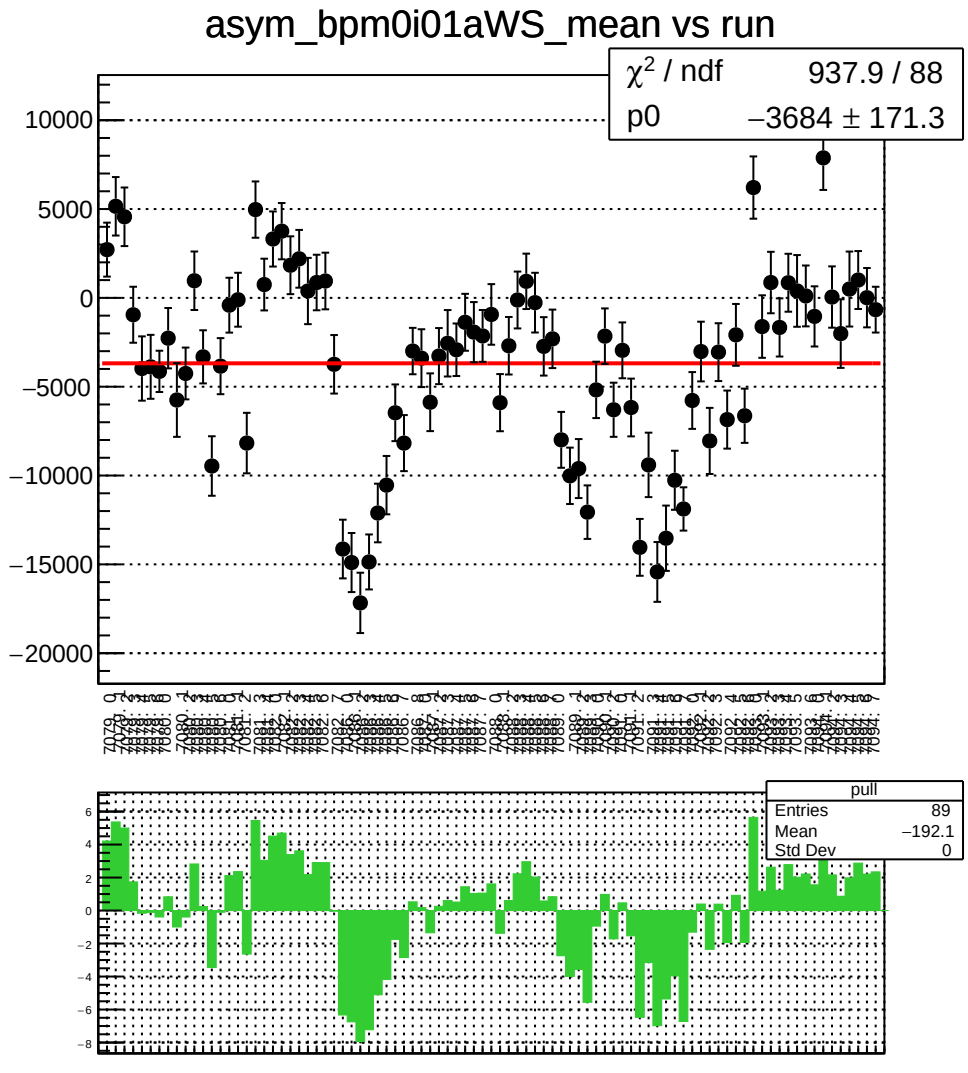

pull1D
Entries 89
Mean 0.01101
Std Dev 2.791
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

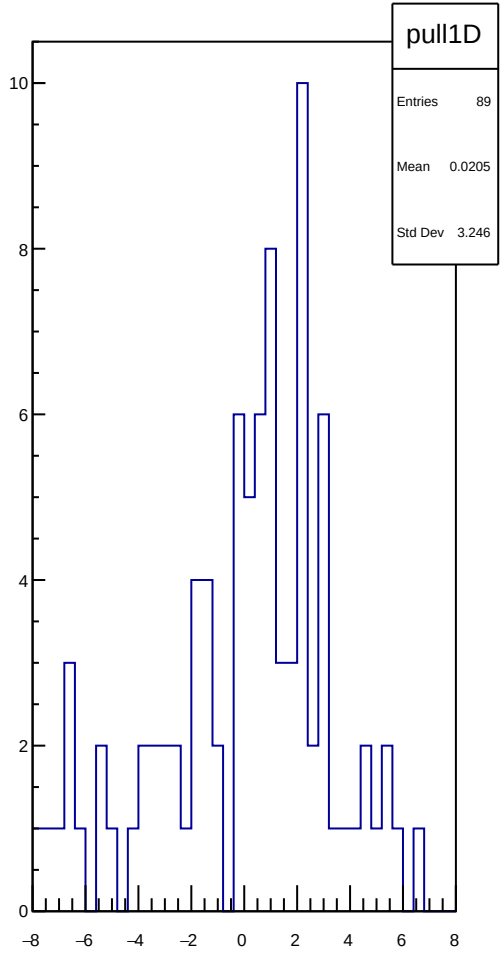

asym_bpm2i02WS_rms vs run
χ^2 / ndf 6783 / 88
p0 145.2 ± 0.112
190
180
170
160
150
140
130

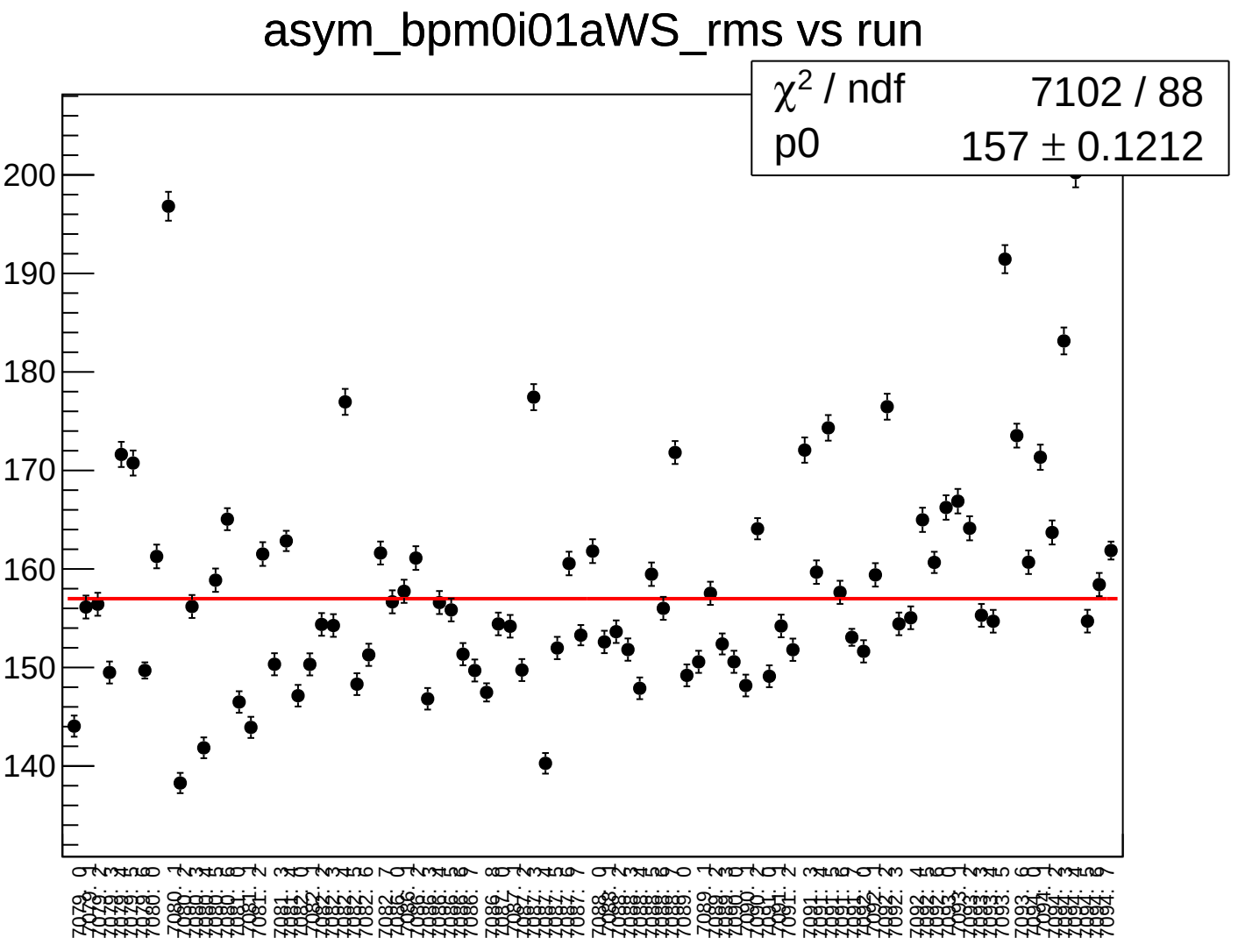

asym_bpm0i01WS_mean vs run
χ² / ndf 761.9 / 88
p0 −3881 ± 190.3
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −291
Std Dev 0
6
4
2
0
−2
−4
−6

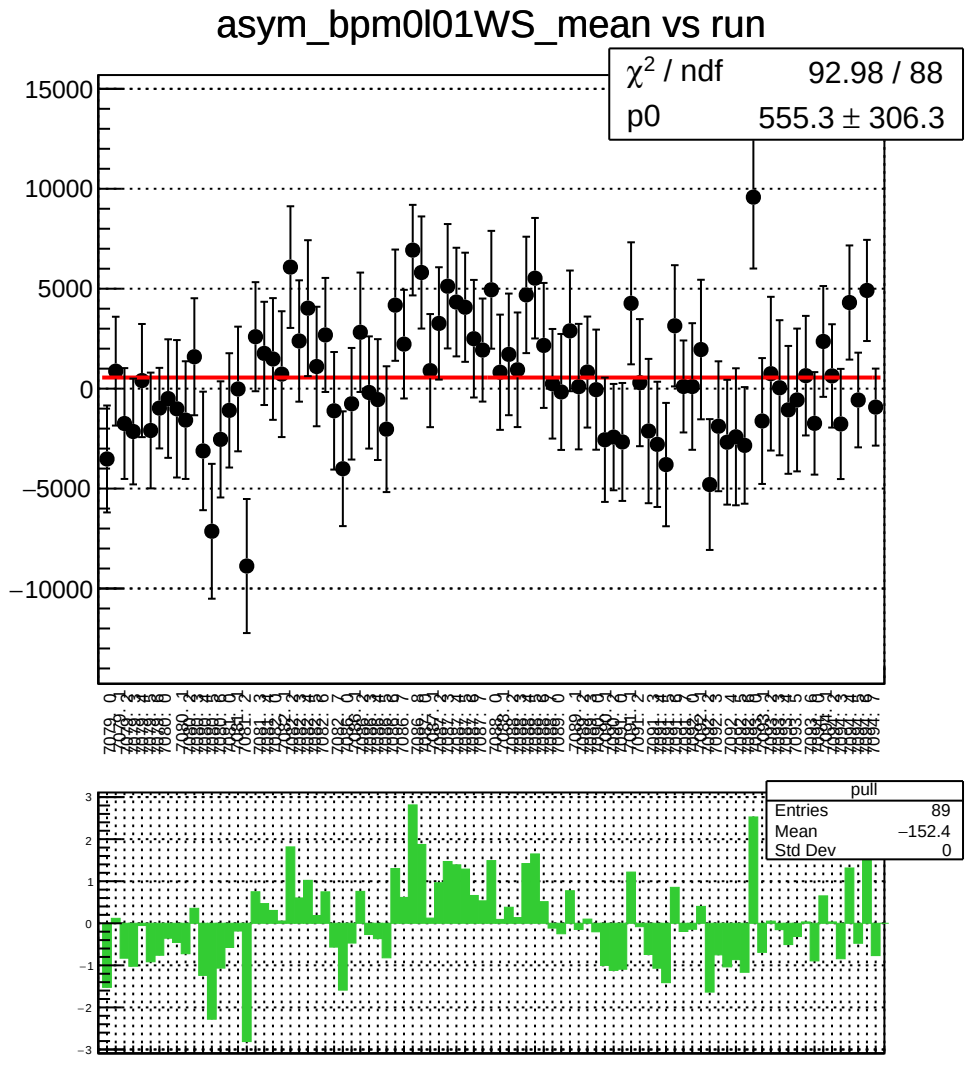

pull1D
Entries 89
Mean 0.01739
Std Dev 2.926
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

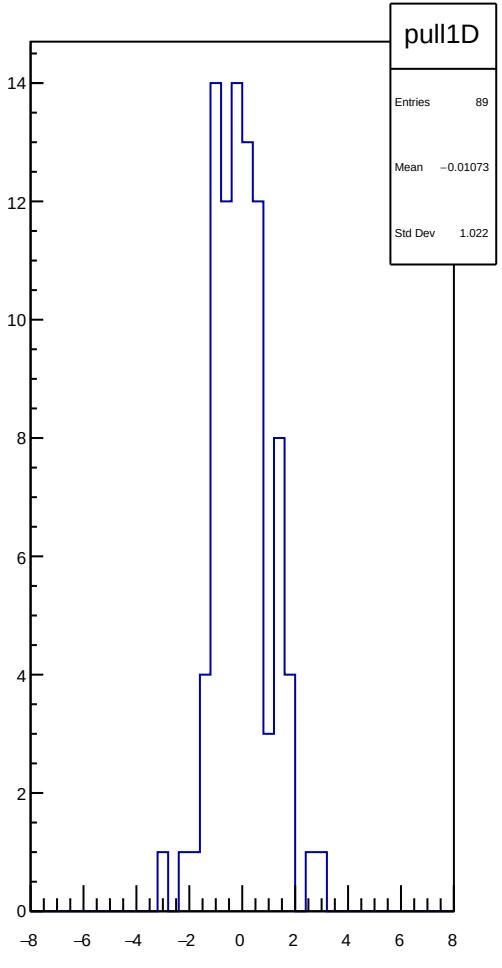

asym_bpm0i01WS_rms vs run
χ² / ndf 5570 / 88
p0 174.5 ± 0.1346
220
210
200
190
180
170
160
150

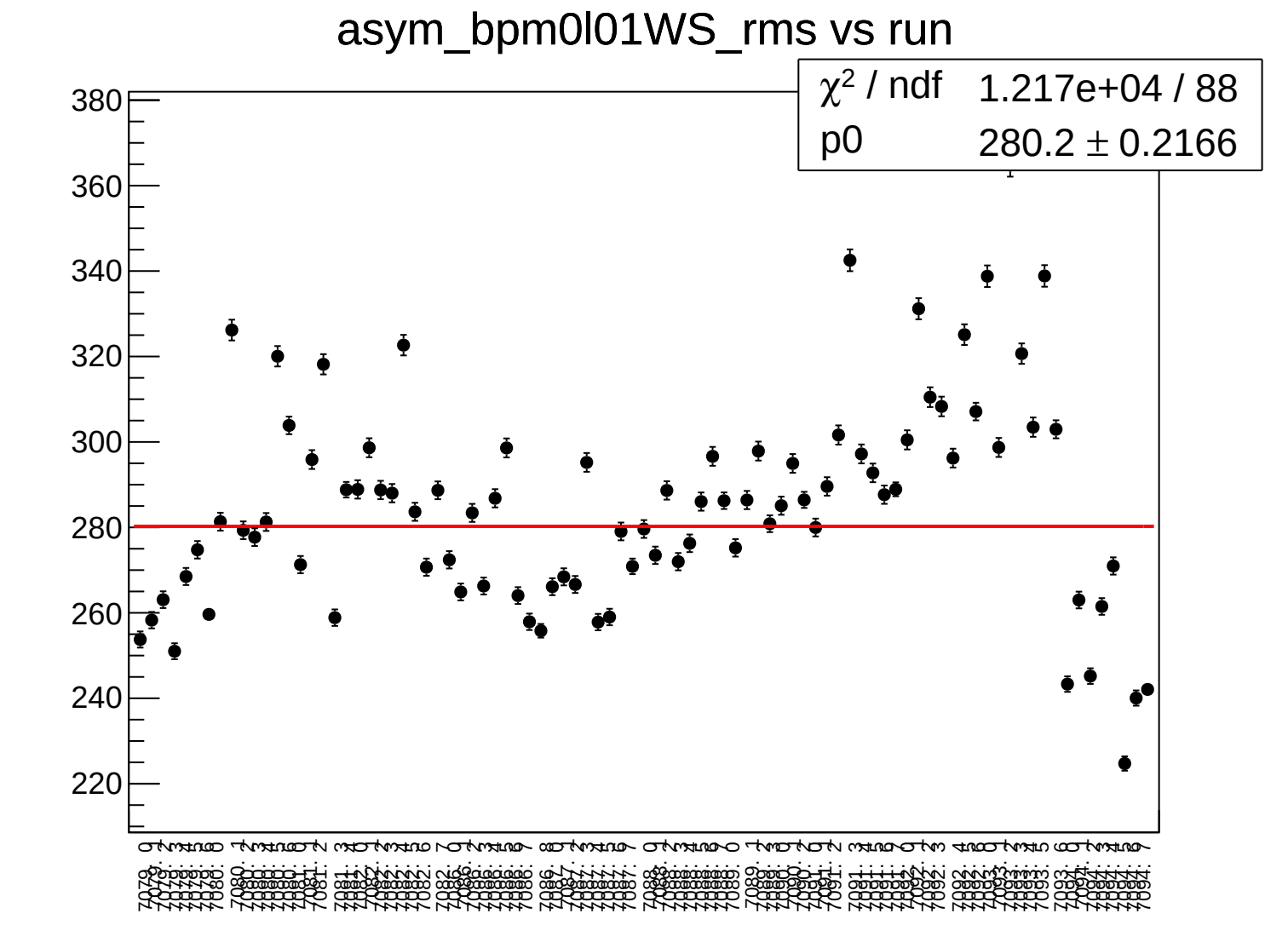

asym_bpm0i01aWS_mean vs run
χ² / ndf 937.9 / 88
p0 −3684 ± 171.3
pull
Entries 89
Mean −192.1
Std Dev 0

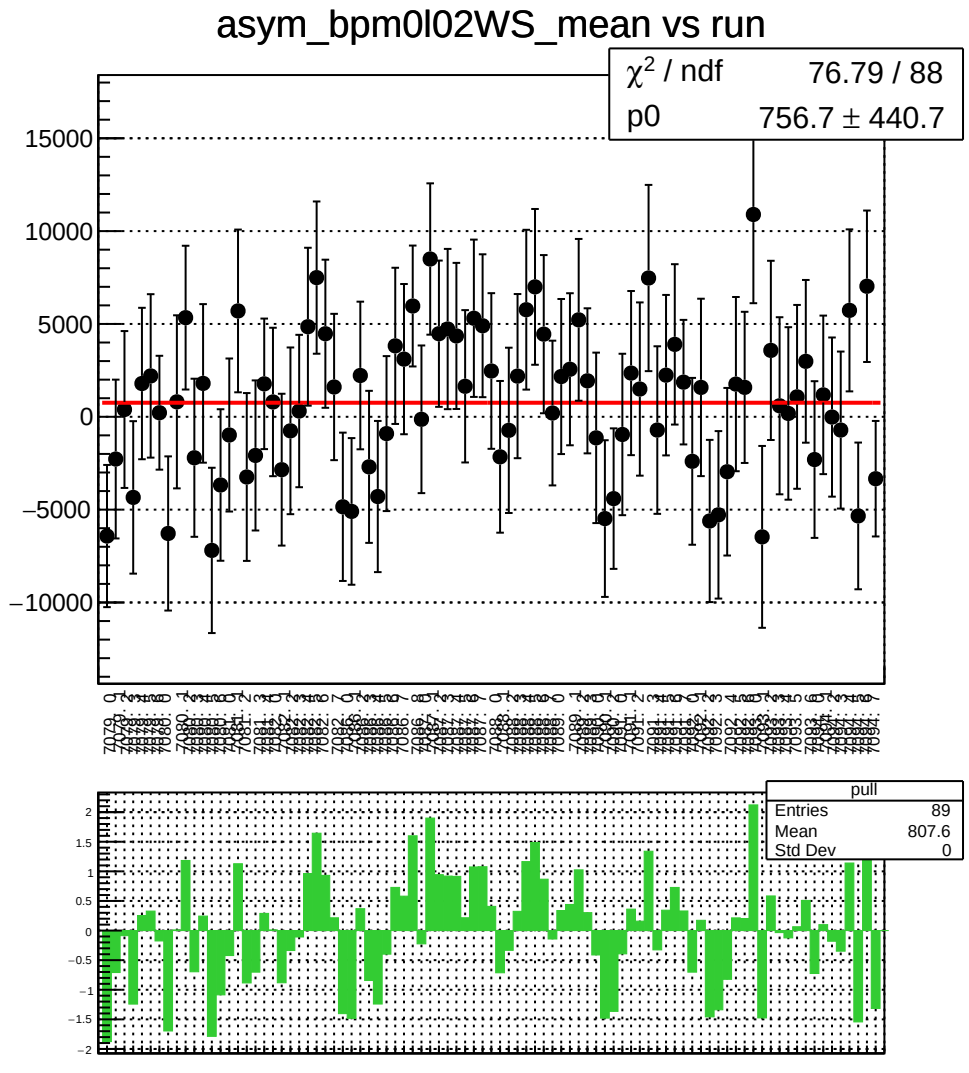

pull1D
Entries 89
Mean 0.0205
Std Dev 3.246

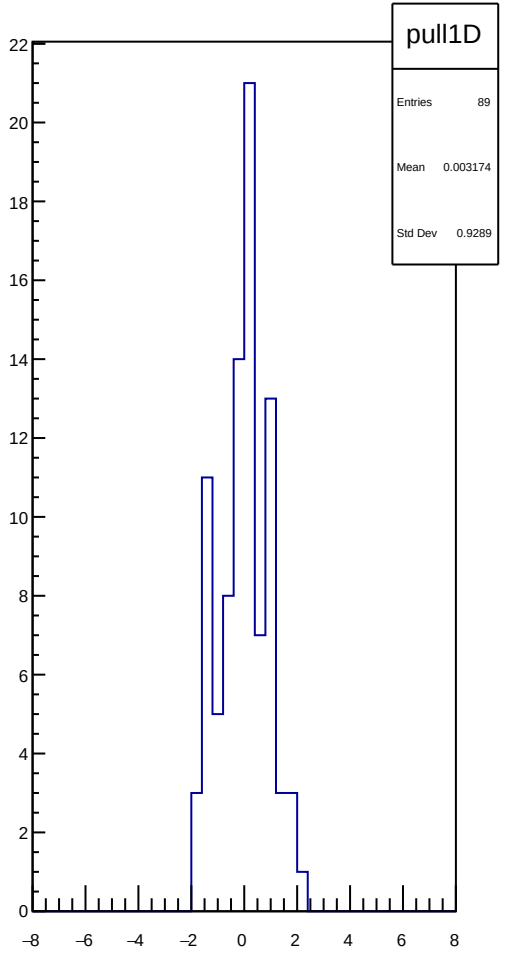

asym_bpm0i01aWS_rms vs run
χ² / ndf 7102 / 88
p0 157 ± 0.1212
200
190
180
170
160
150
140

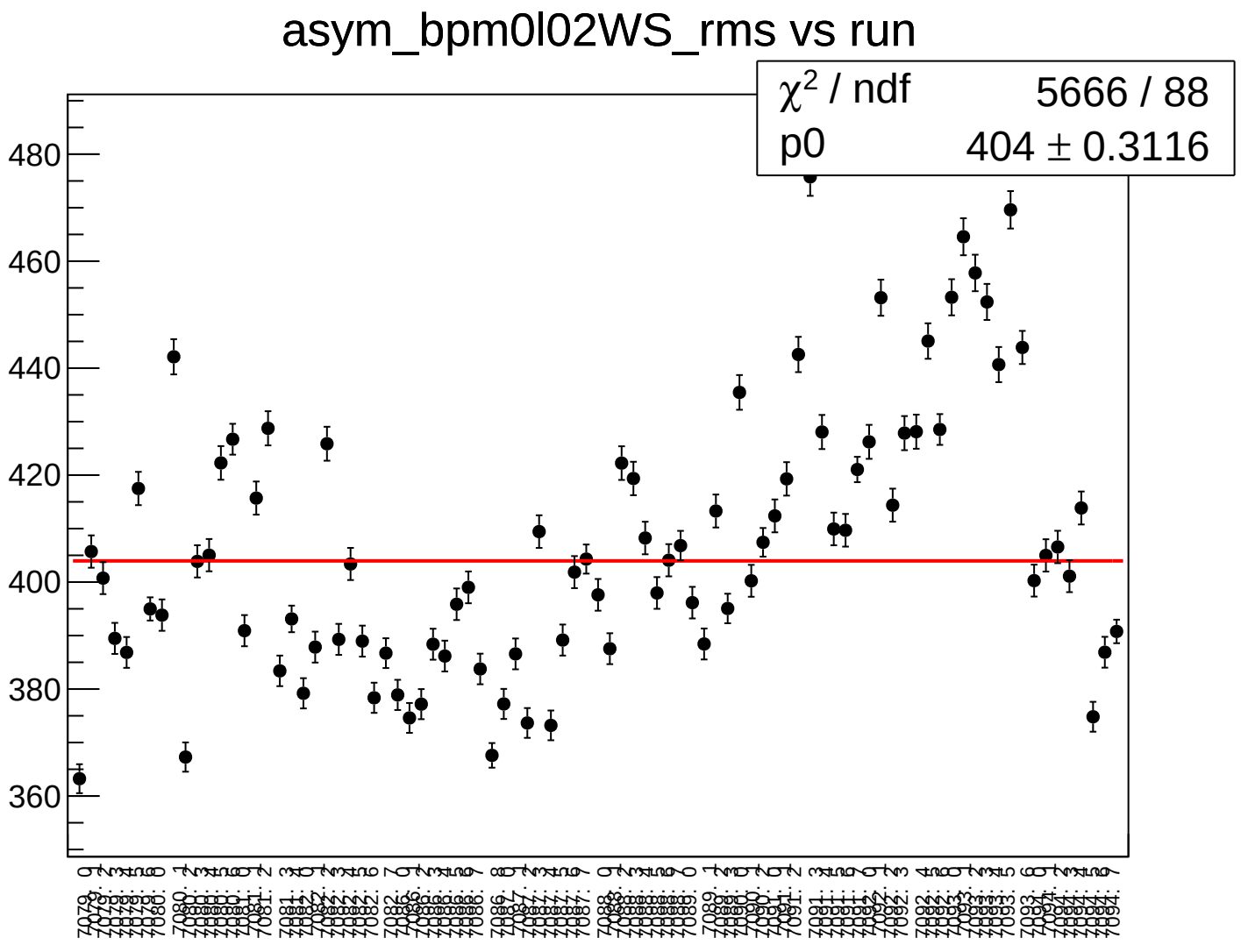

asym_bpm0l01WS_mean vs run
χ² / ndf 92.98 / 88
p0 555.3 ± 306.3
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −152.4
Std Dev 0
3
2
1
0
−1
−2
−3

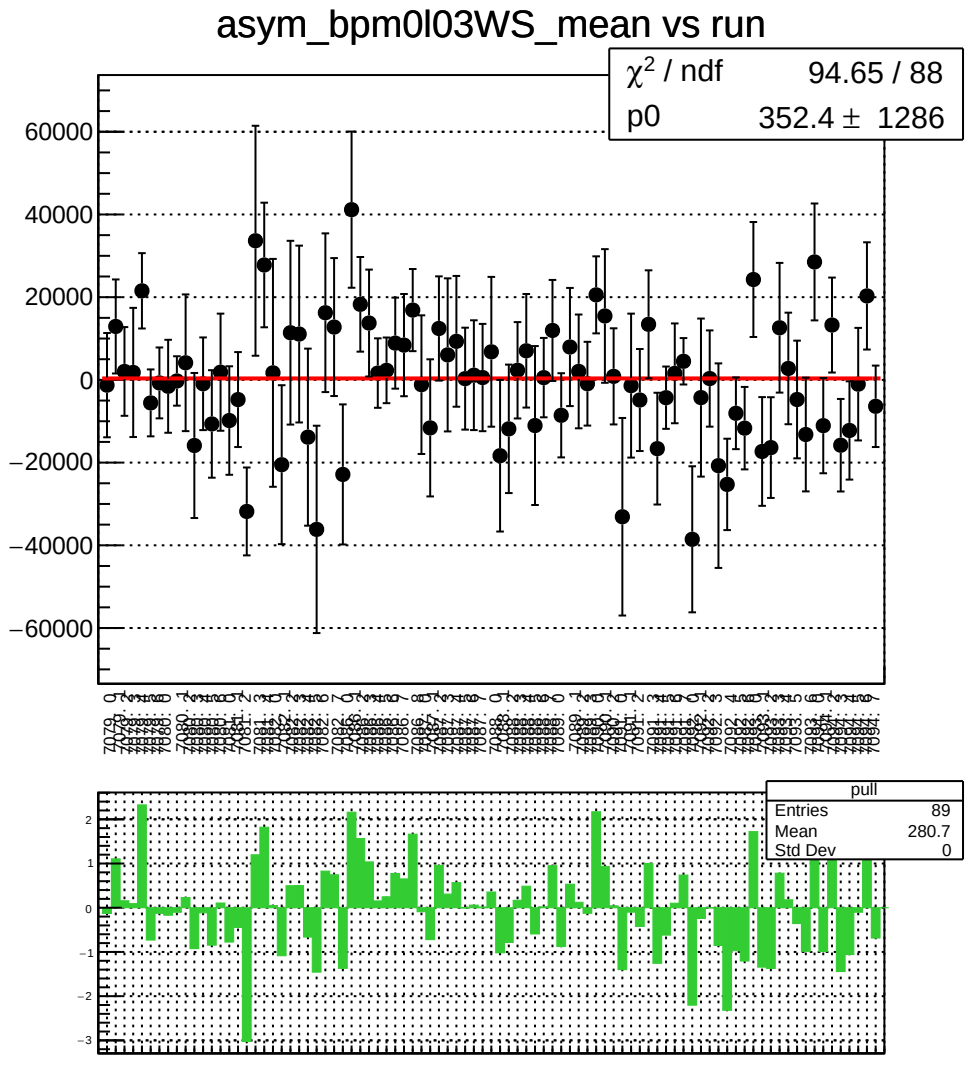

pull1D
Entries 89
Mean −0.01073
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

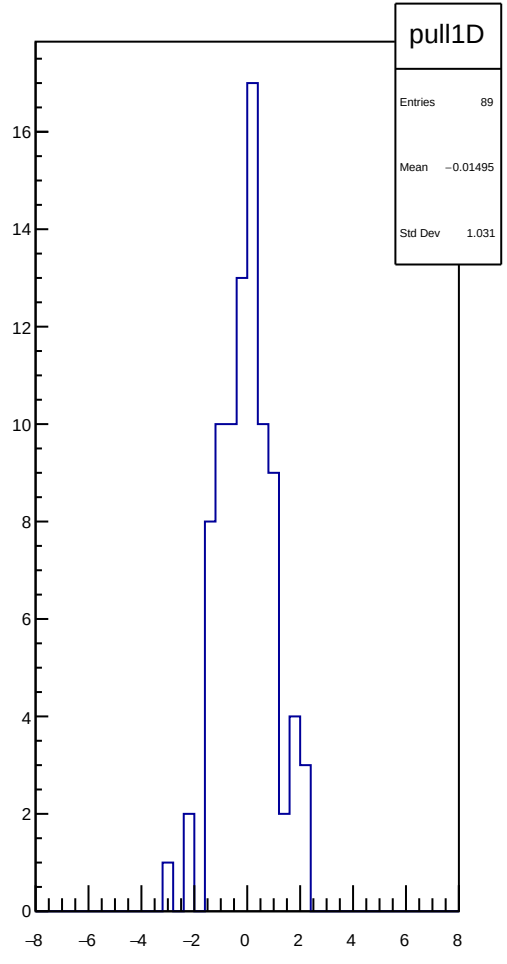

asym_bpm0l01WS_rms vs run
χ² / ndf 1.217e+04 / 88
p0 280.2 ± 0.2166
380
360
340
320
300
280
260
240
220

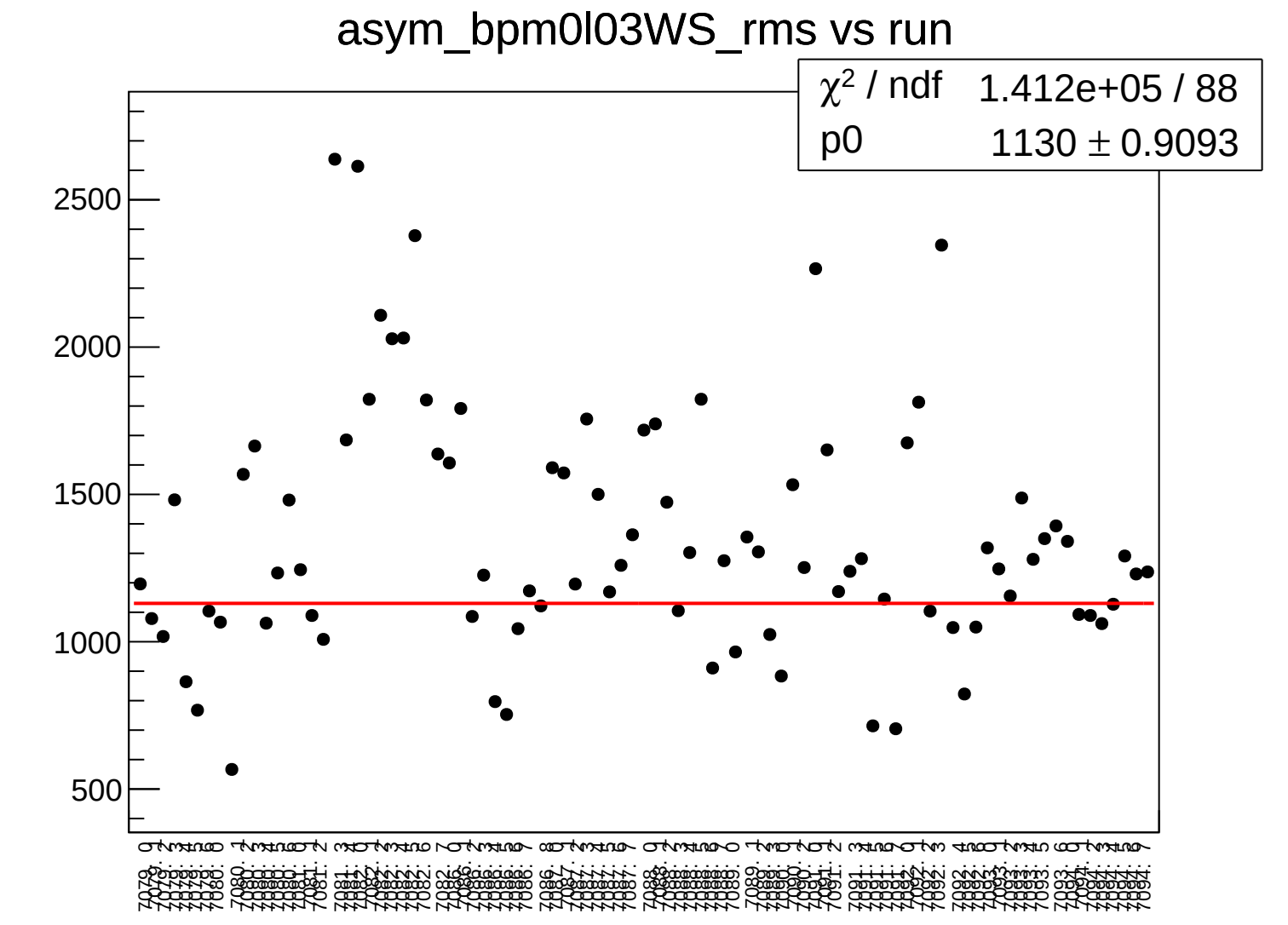

asym_bpm0l02WS_mean vs run
χ² / ndf 76.79 / 88
p0 756.7 ± 440.7
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 807.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

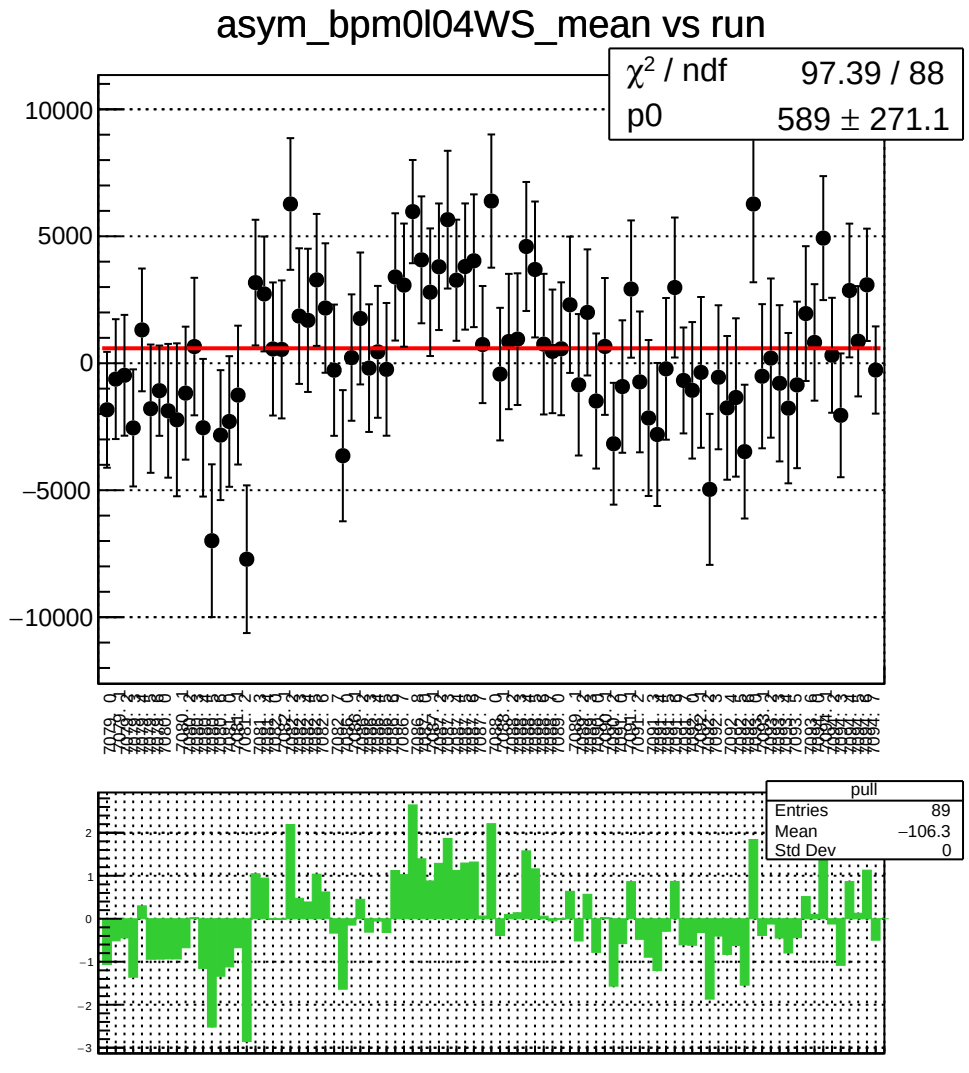

pull1D
Entries 89
Mean 0.003174
Std Dev 0.9289
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

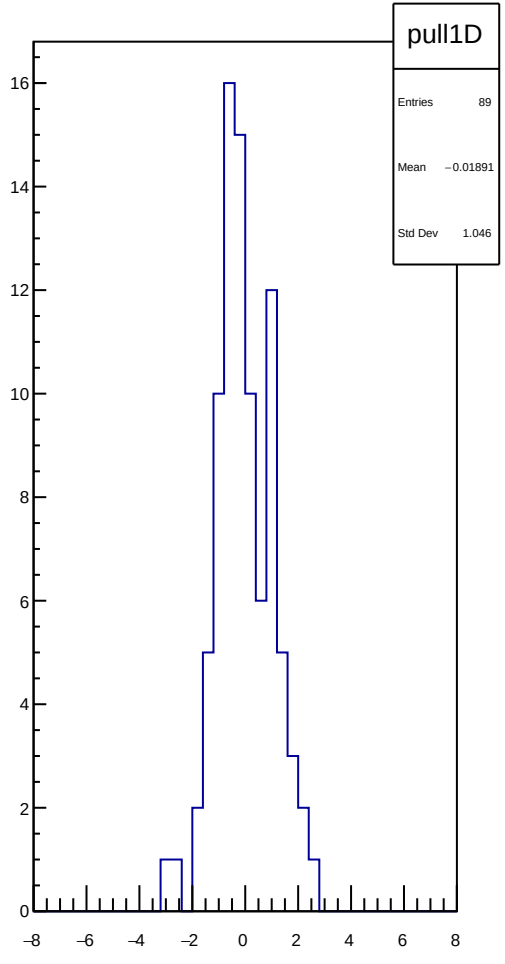

asym_bpm0l02WS_rms vs run
χ² / ndf 5666 / 88
p0 404 ± 0.3116
480
460
440
420
400
380
360

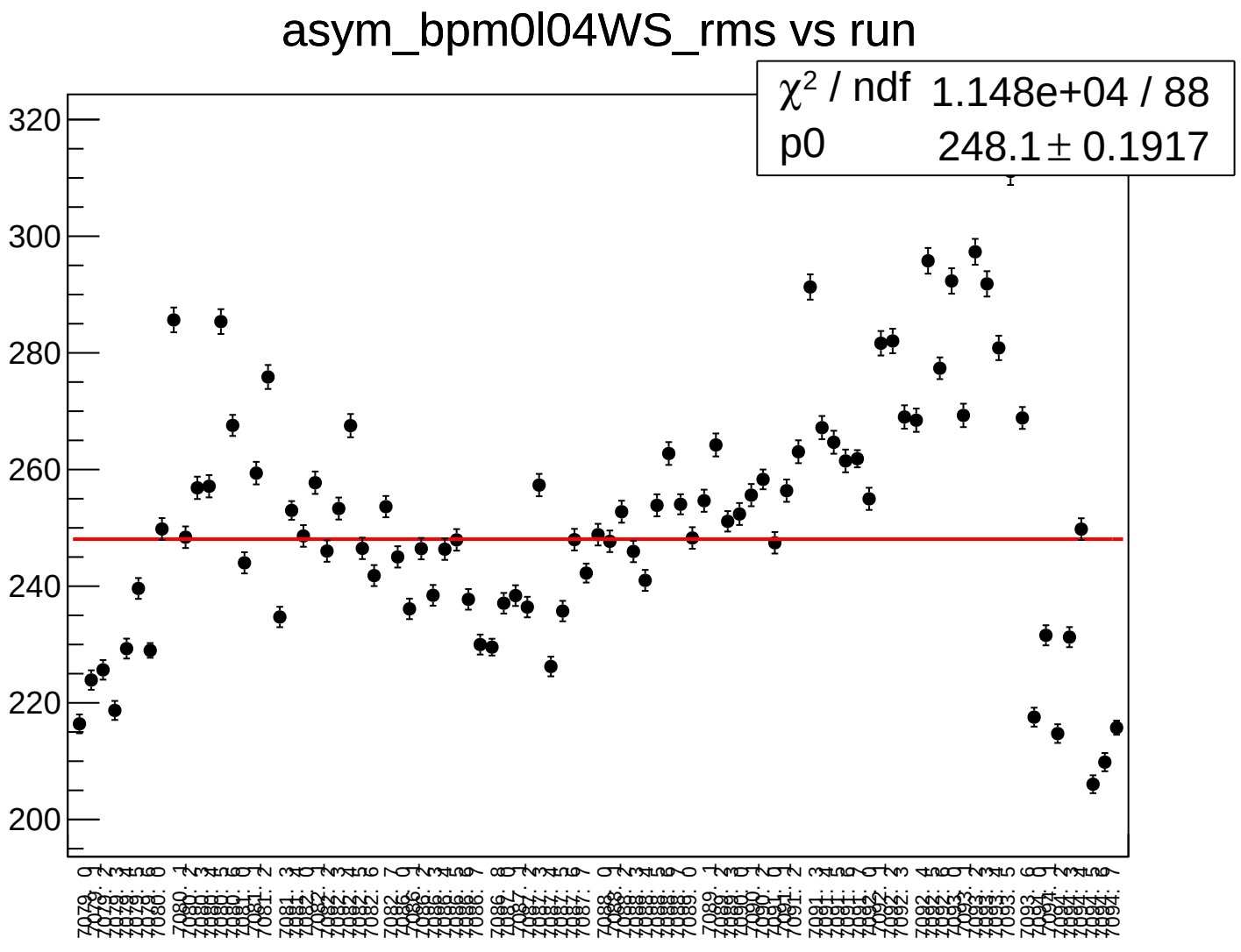

asym_bpm0l03WS_mean vs run
χ² / ndf 94.65 / 88
p0 352.4 ± 1286
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 280.7
Std Dev 0
2
1
0
−1
−2
−3

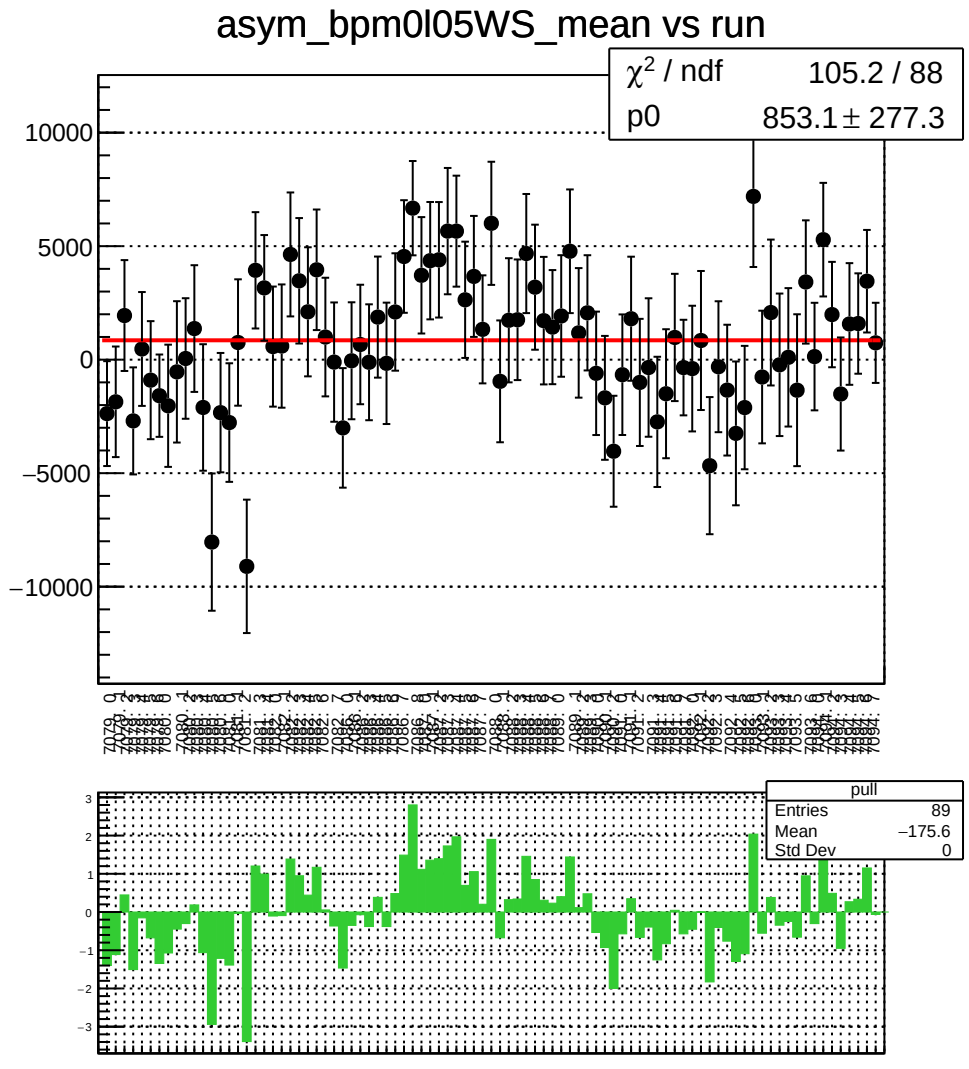

pull1D
Entries 89
Mean −0.01495
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

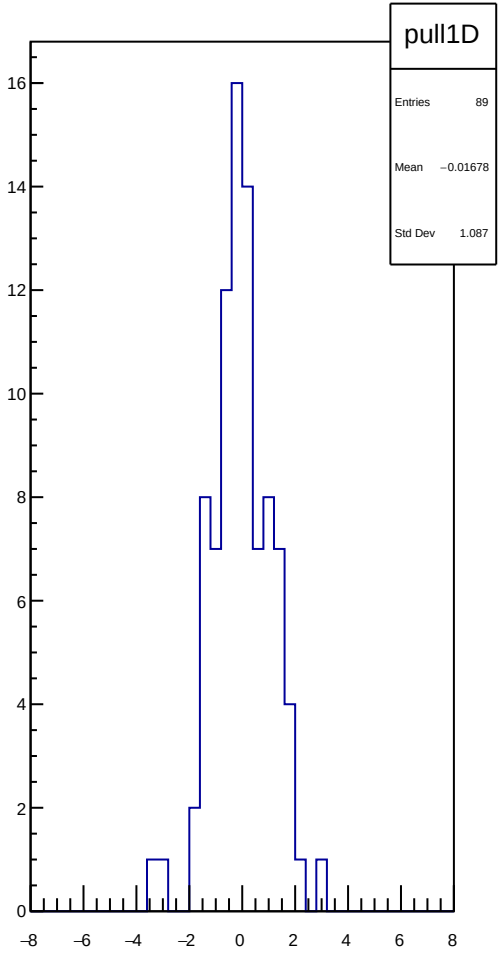

asym_bpm0l03WS_rms vs run
χ² / ndf 1.412e+05 / 88
p0 1130 ± 0.9093
2500
2000
1500
1000
500

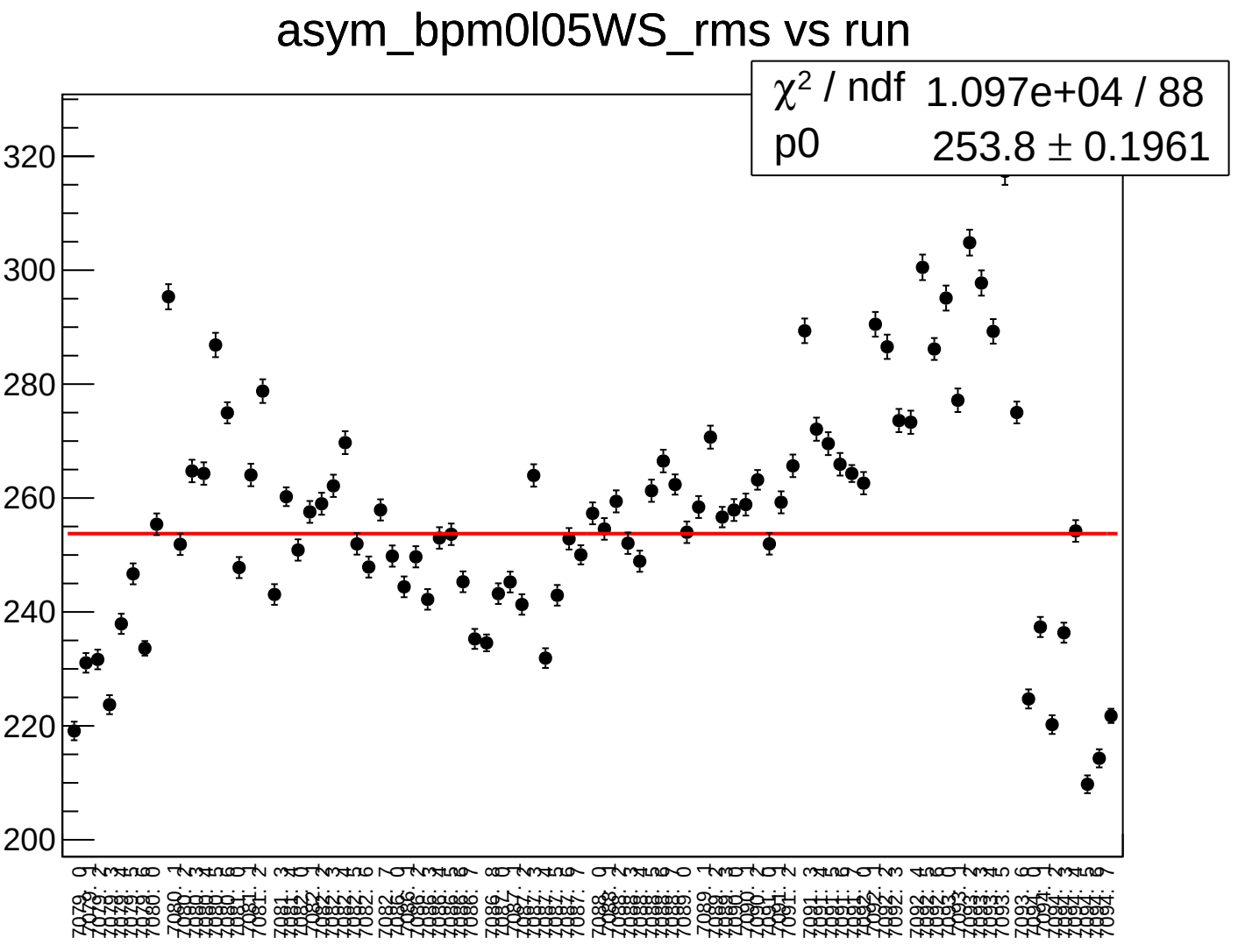

asym_bpm0l04WS_mean vs run
χ² / ndf 97.39 / 88
p0 589 ± 271.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −106.3
Std Dev 0
2
1
0
−1
−2
−3

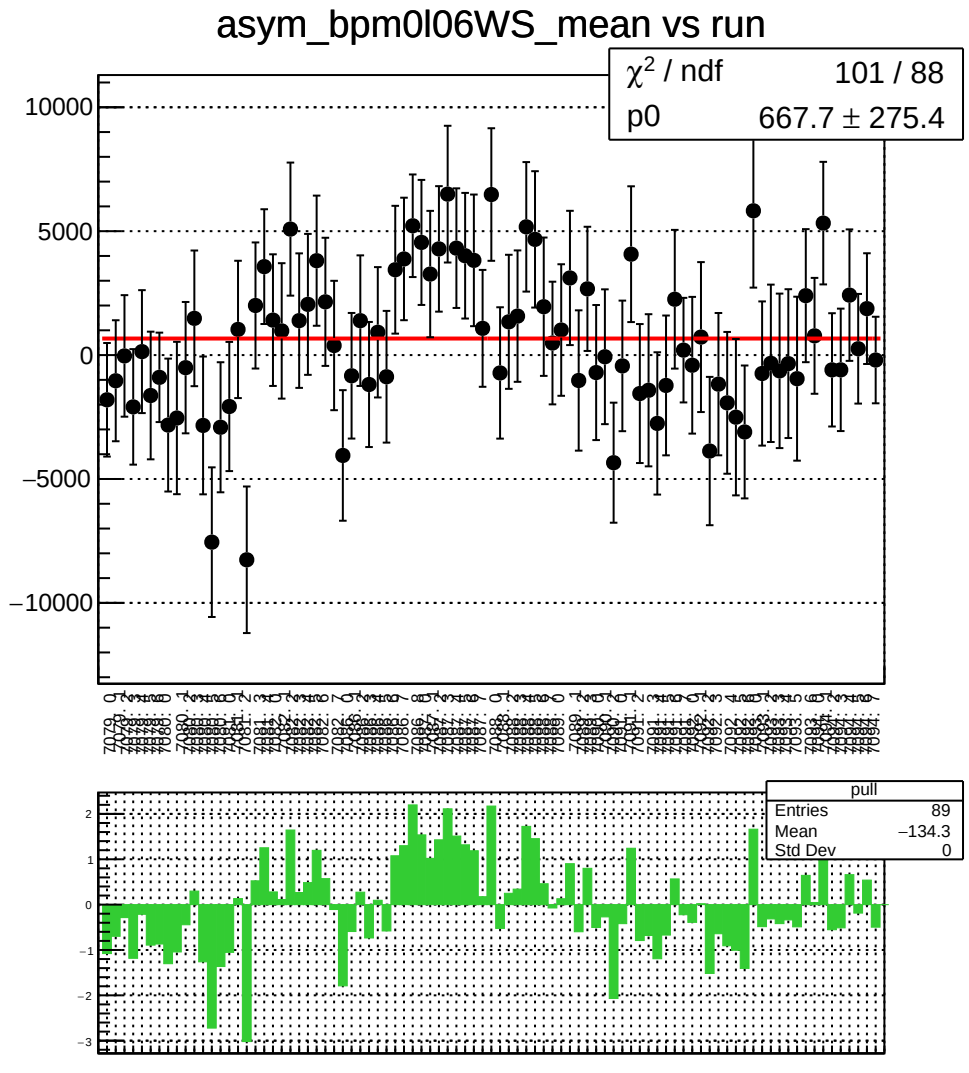

pull1D
Entries 89
Mean −0.01891
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

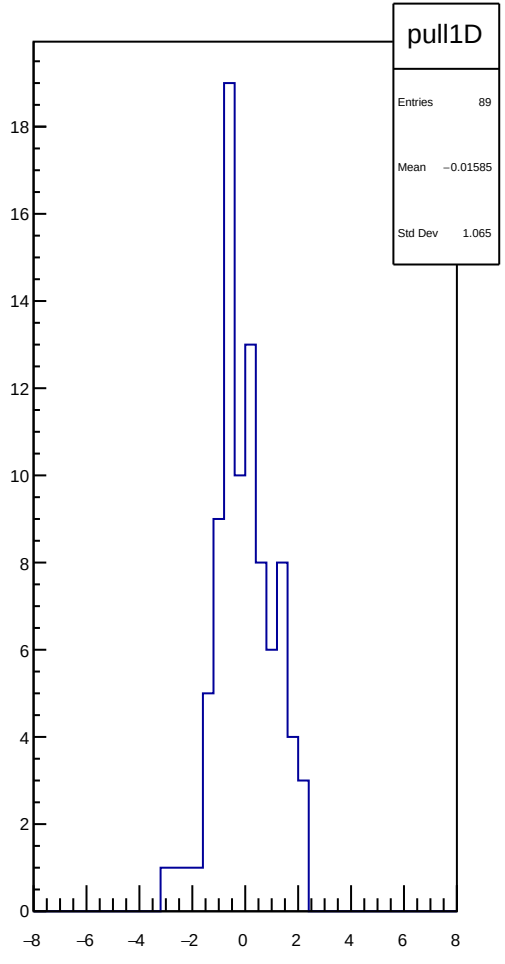

asym_bpm0l04WS_rms vs run
χ² / ndf 1.148e+04 / 88
p0 248.1 ± 0.1917
320
300
280
260
240
220
200

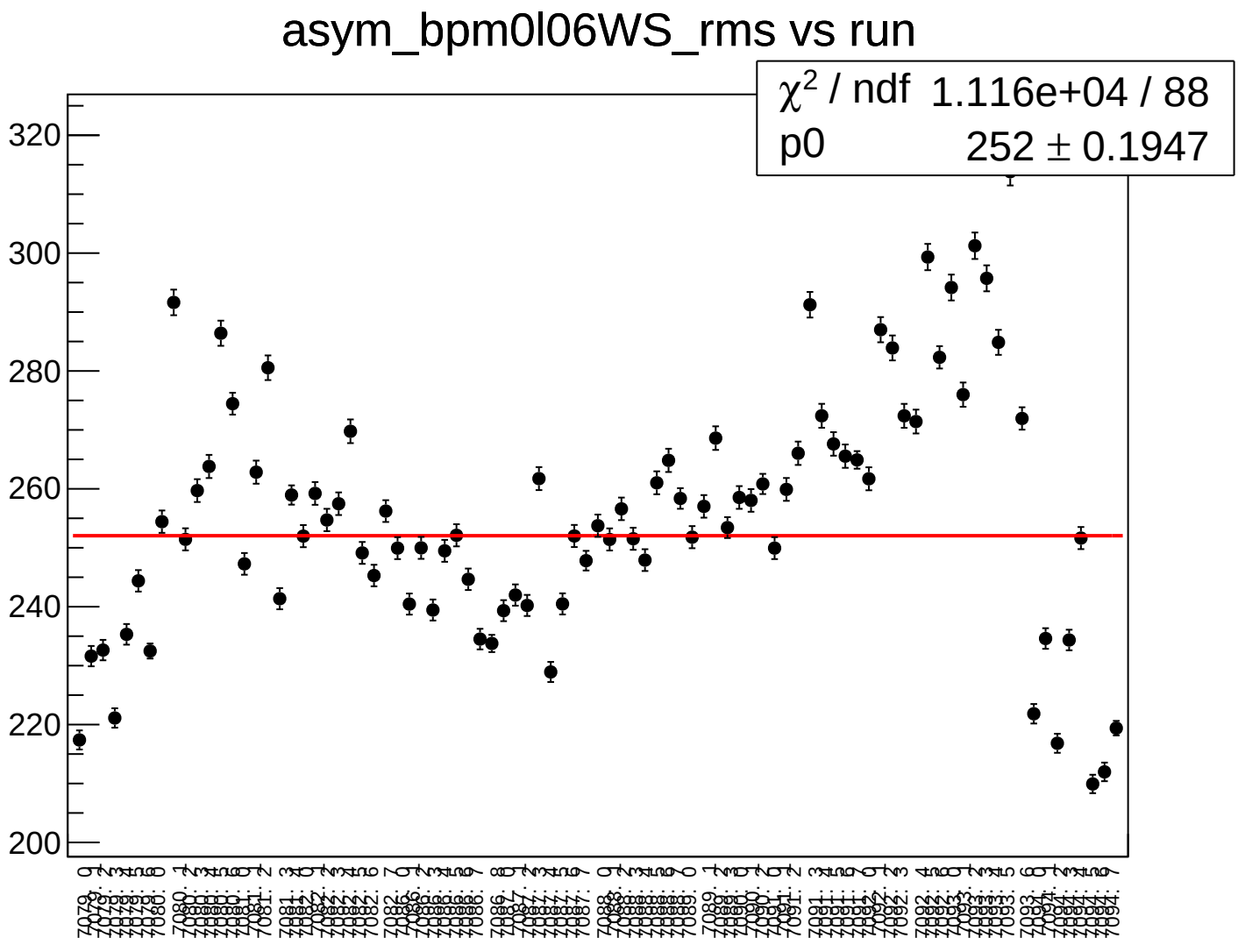

asym_bpm0l05WS_mean vs run
χ² / ndf 105.2 / 88
p0 853.1 ± 277.3
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −175.6
Std Dev 0
3
2
1
0
−1
−2
−3

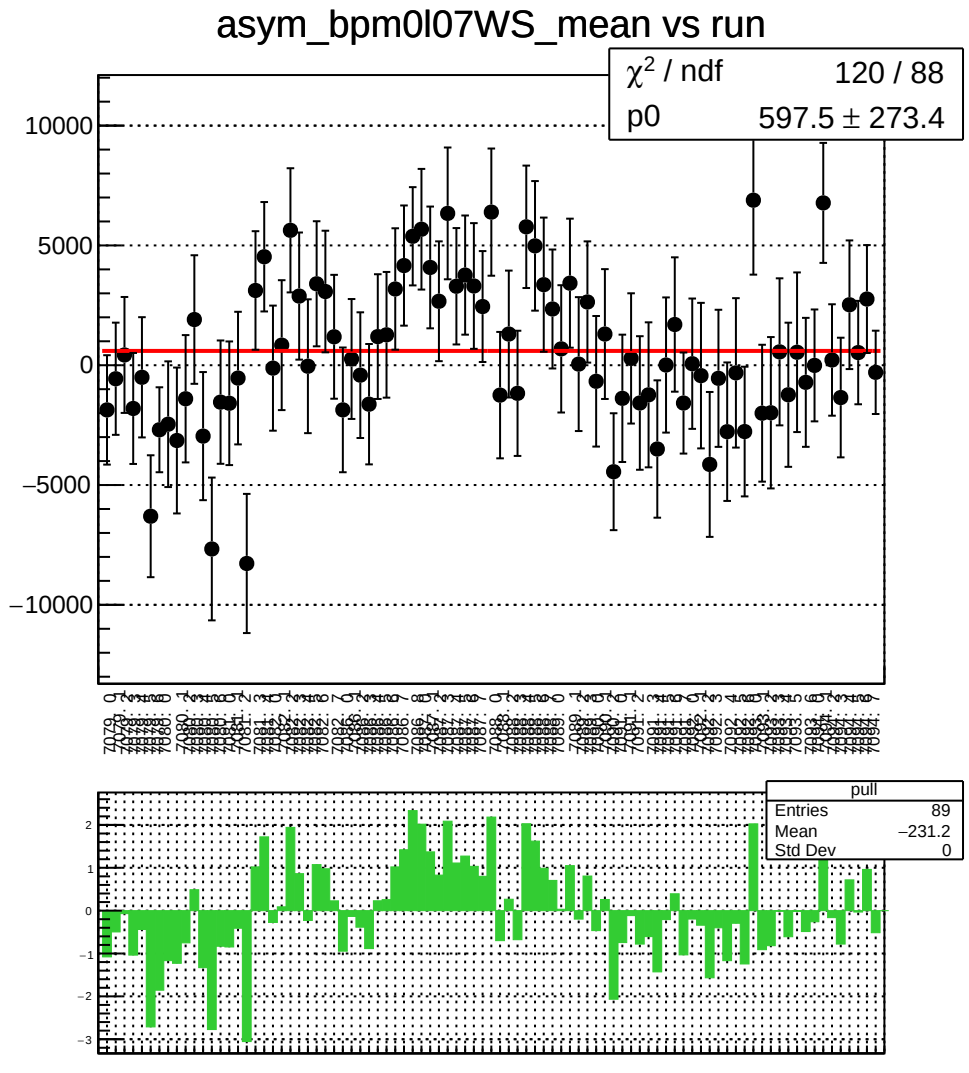

pull1D
Entries 89
Mean −0.01678
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

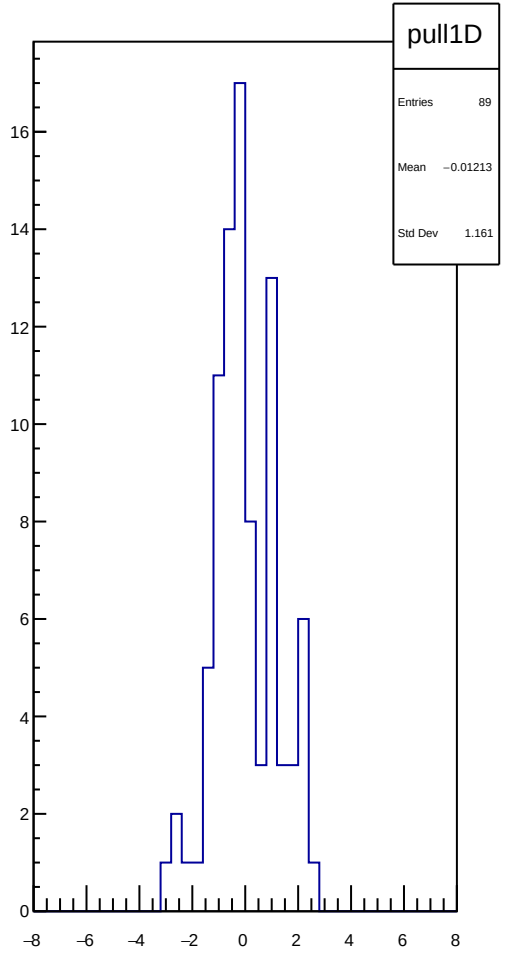

asym_bpm0l05WS_rms vs run
χ² / ndf 1.097e+04 / 88
p0 253.8 ± 0.1961
320
300
280
260
240
220
200

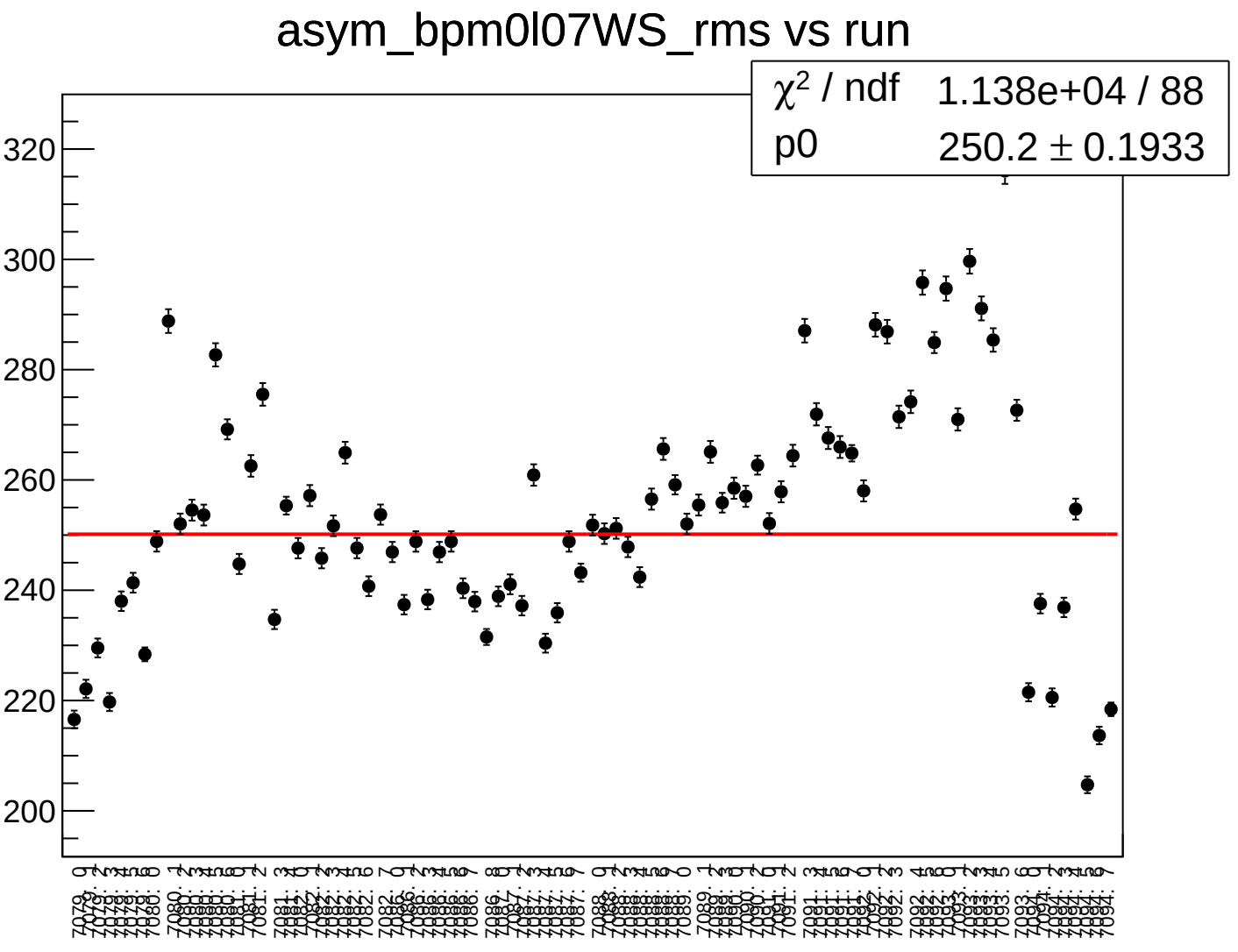

asym_bpm0l06WS_mean vs run
χ² / ndf 101 / 88
p0 667.7 ± 275.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −134.3
Std Dev 0
2
1
0
−1
−2
−3

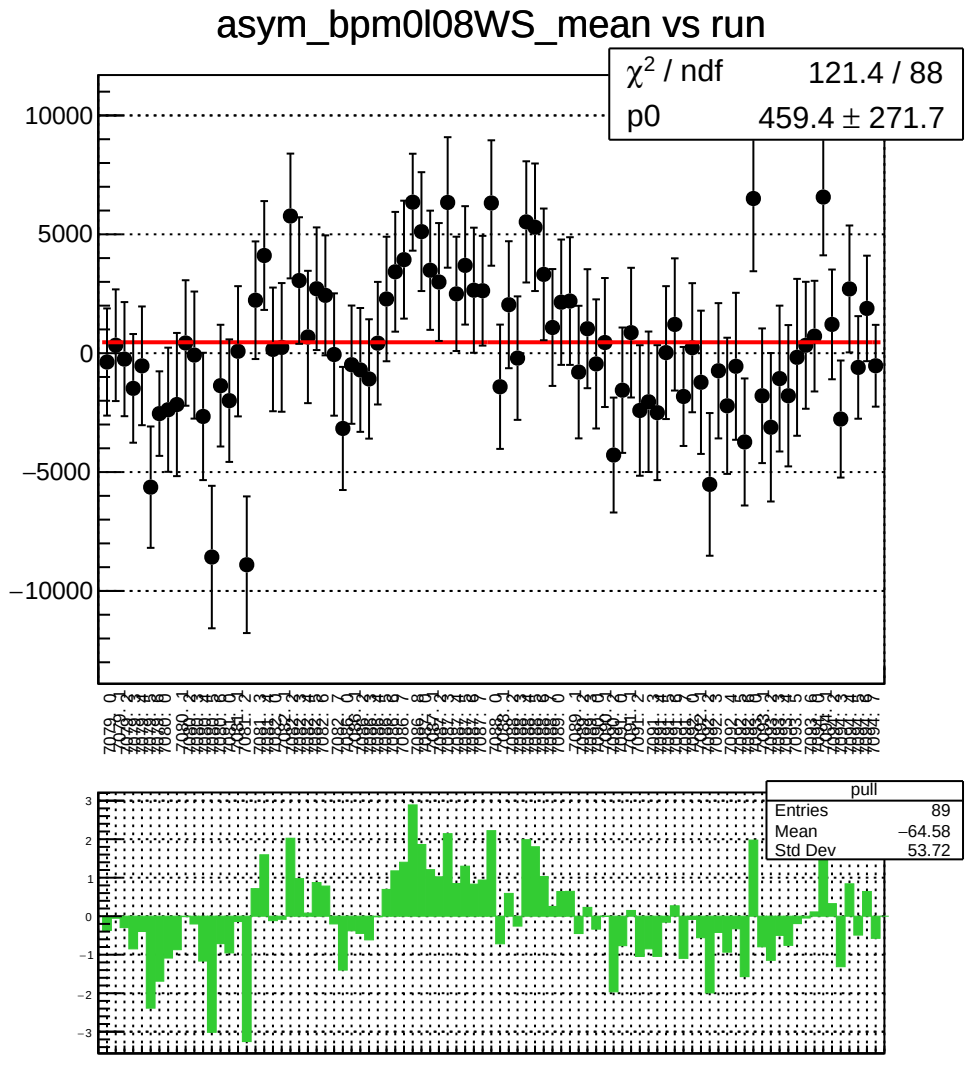

pull1D
Entries 89
Mean −0.01585
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

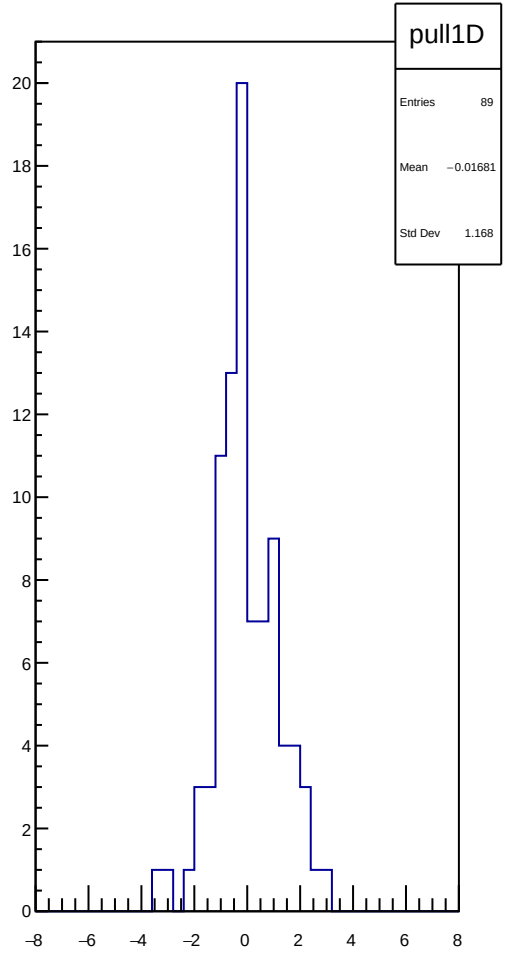

asym_bpm0l06WS_rms vs run
χ² / ndf 1.116e+04 / 88
p0 252 ± 0.1947
320
300
280
260
240
220
200

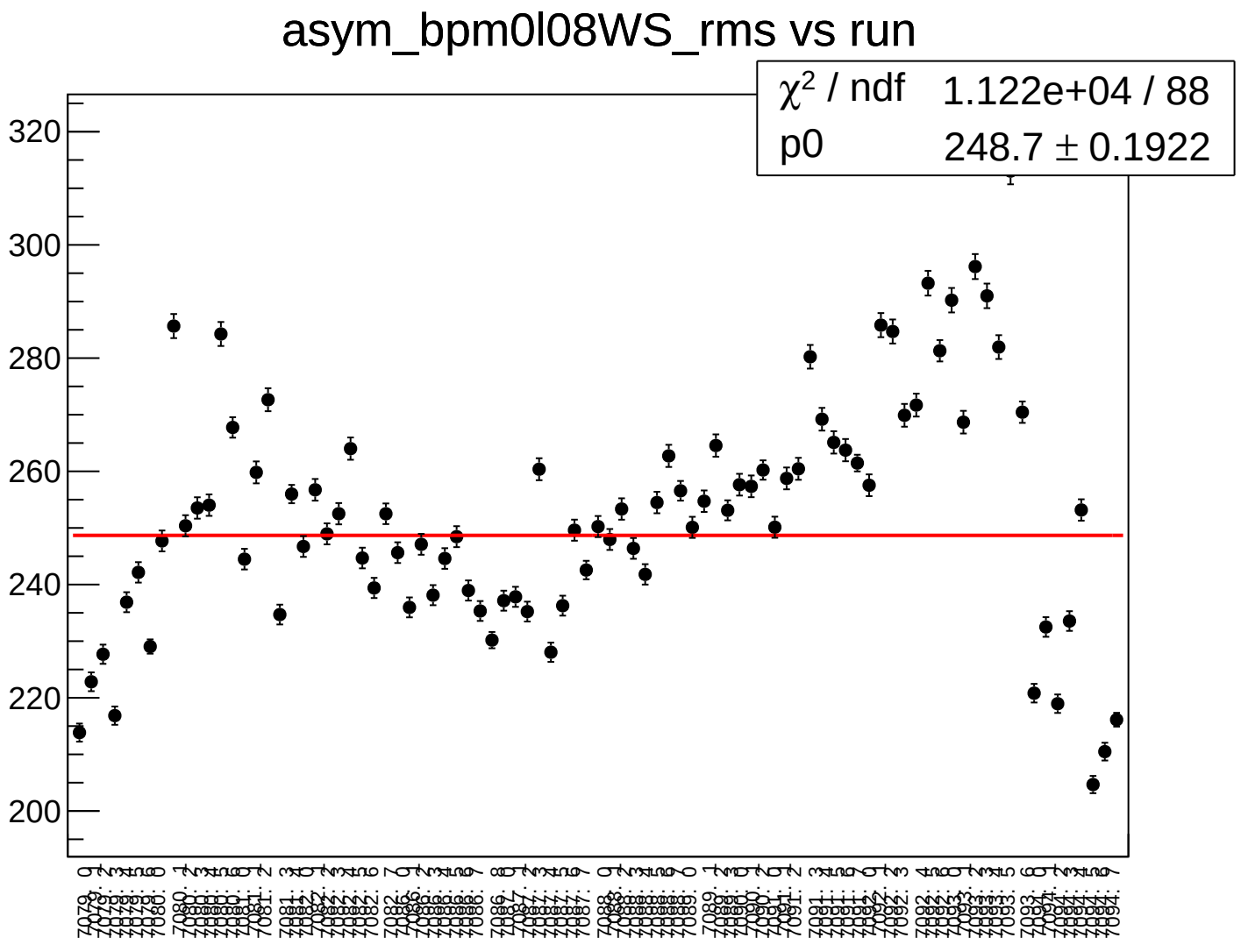

asym_bpm0l07WS_mean vs run
χ² / ndf 120 / 88
p0 597.5 ± 273.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −231.2
Std Dev 0
2
1
0
−1
−2
−3

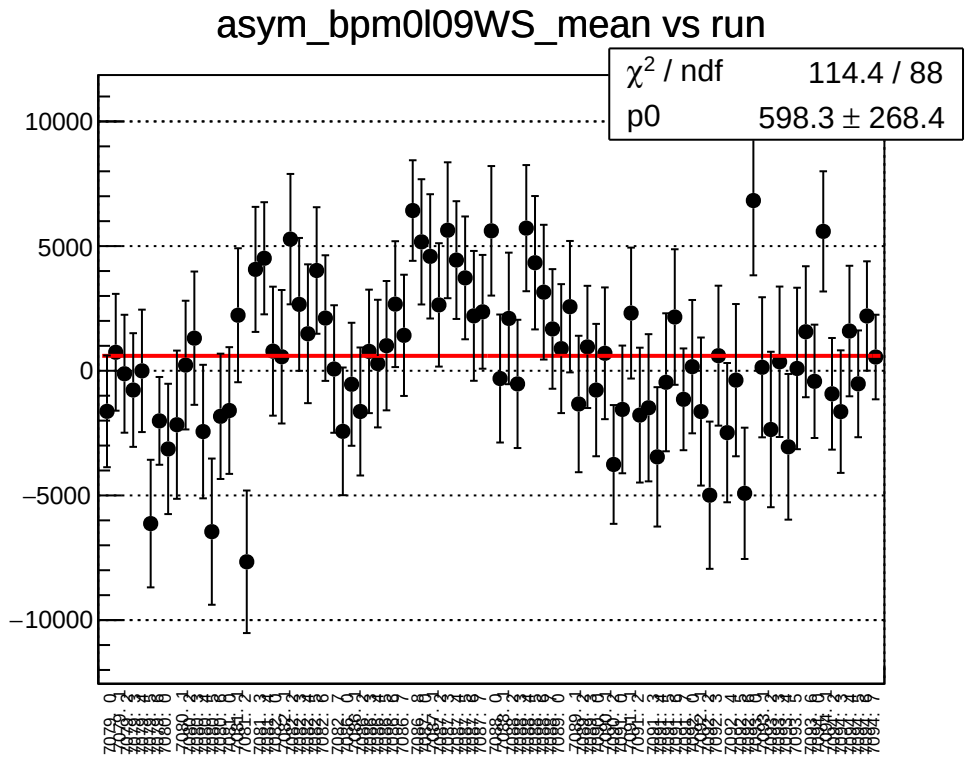

pull1D
Entries 89
Mean −0.01213
Std Dev 1.161
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

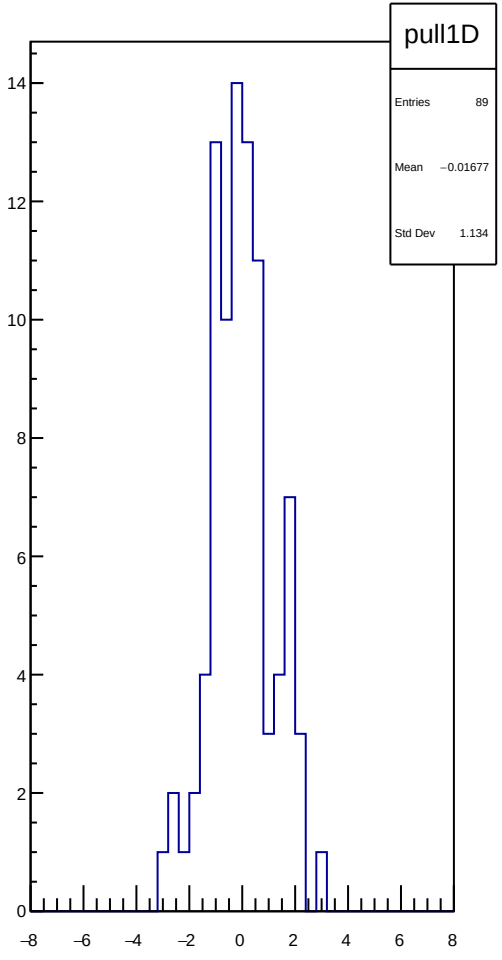

asym_bpm0l07WS_rms vs run
χ² / ndf 1.138e+04 / 88
p0 250.2 ± 0.1933
320
300
280
260
240
220
200

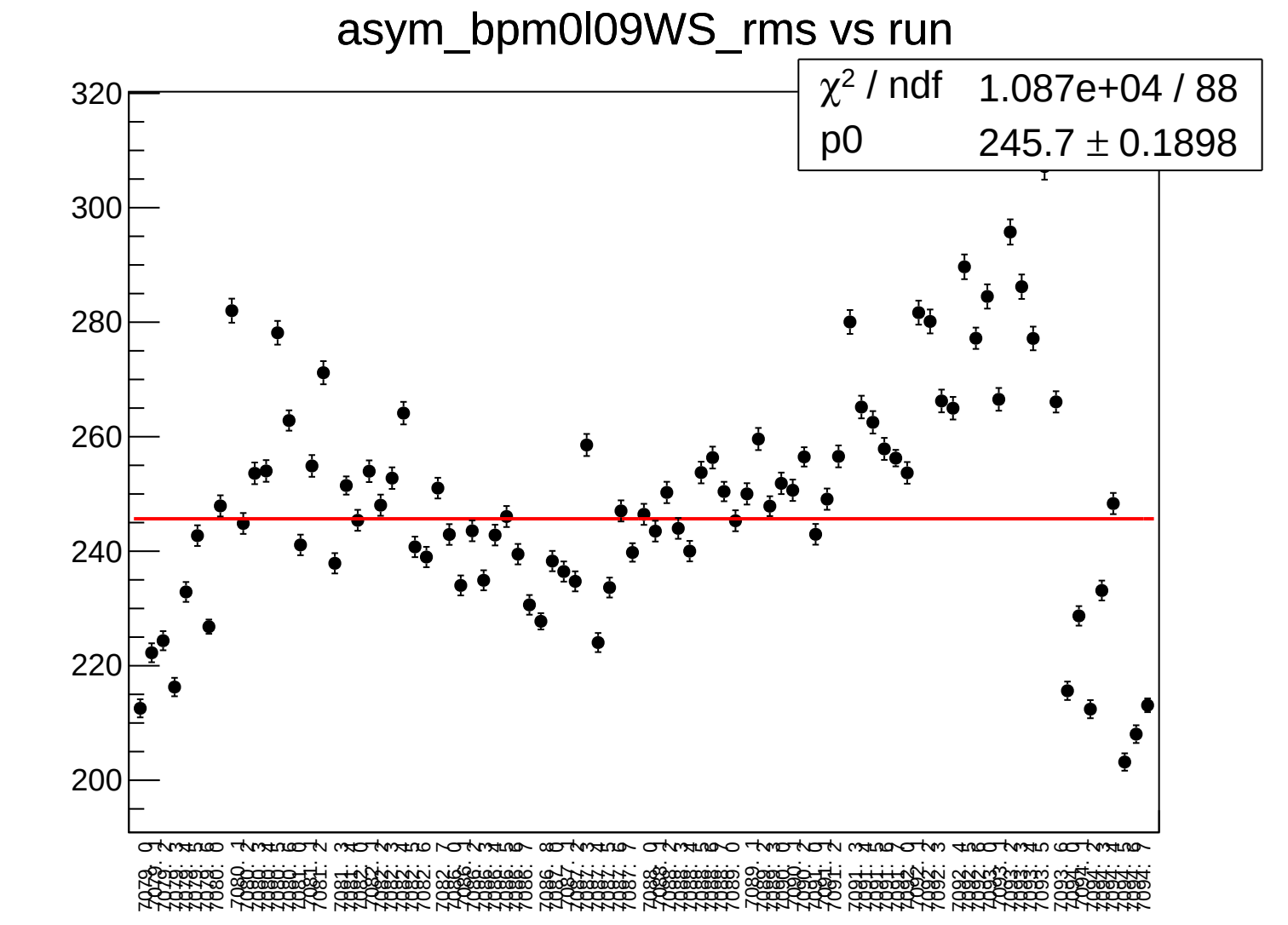

asym_bpm0l08WS_mean vs run
χ^2 / ndf 121.4 / 88
p0 459.4 ± 271.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −64.58
Std Dev 53.72
3
2
1
0
−1
−2
−3

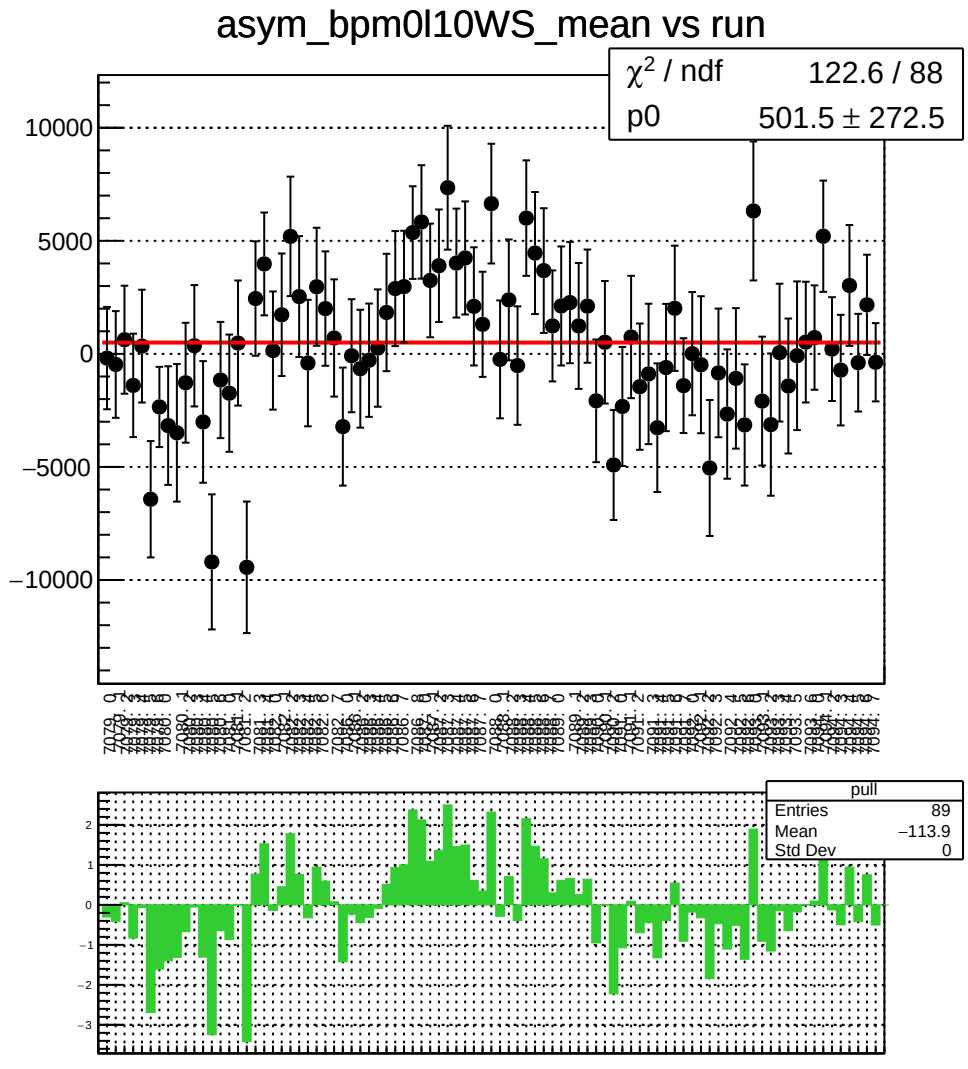

pull1D
Entries 89
Mean −0.01681
Std Dev 1.168
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

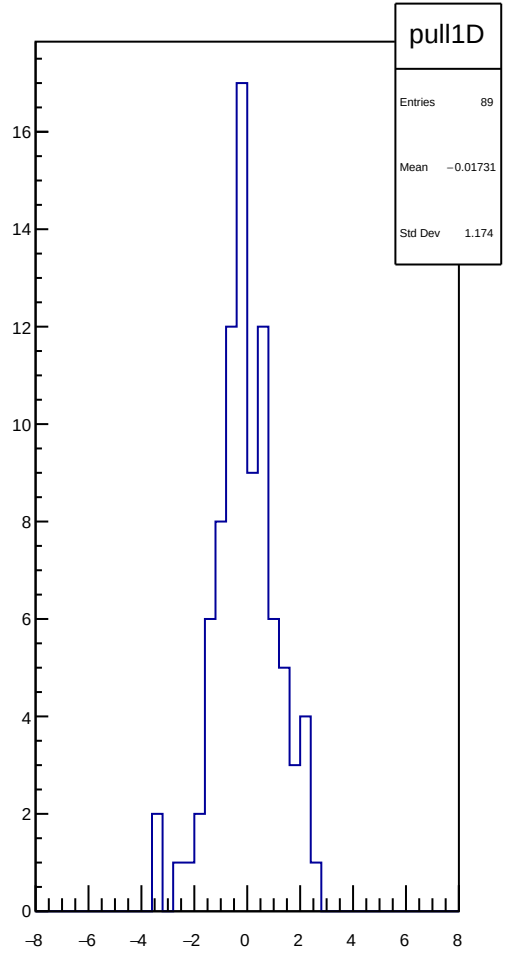

asym_bpm0l08WS_rms vs run
χ² / ndf 1.122e+04 / 88
p0 248.7 ± 0.1922
320
300
280
260
240
220
200

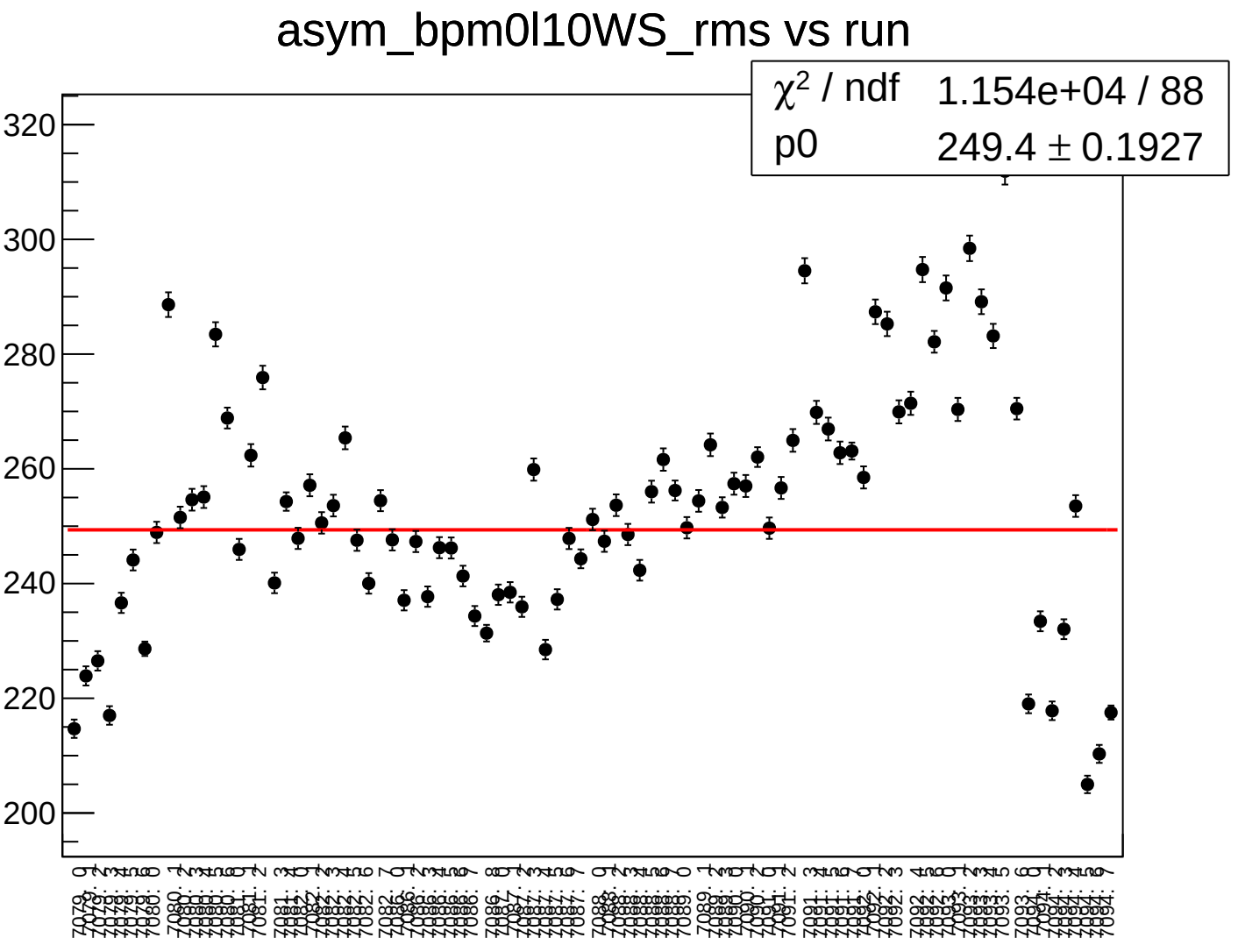

asym_bpm0l09WS_mean vs run
χ² / ndf 114.4 / 88
p0 598.3 ± 268.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −18.69
Std Dev 101.8
3
2
1
0
−1
−2
−3

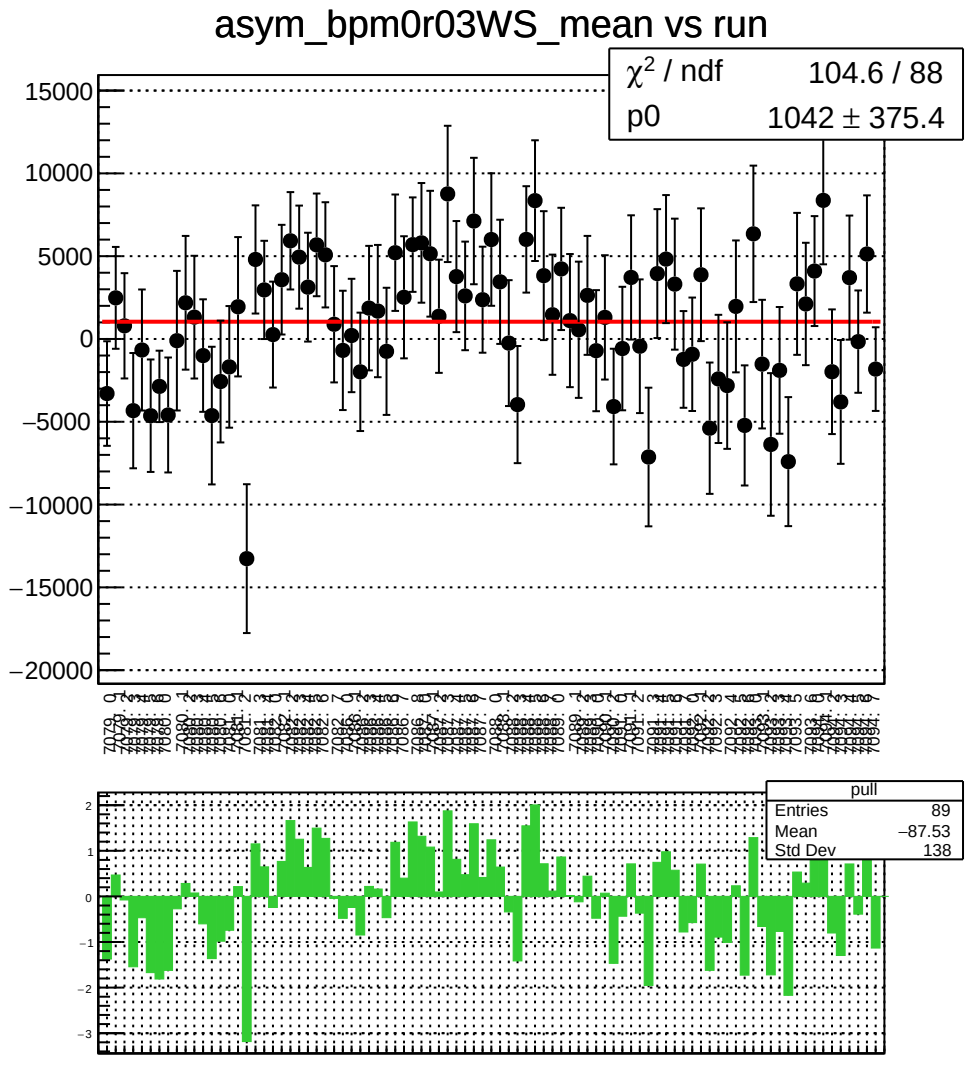

pull1D
Entries 89
Mean −0.01677
Std Dev 1.134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

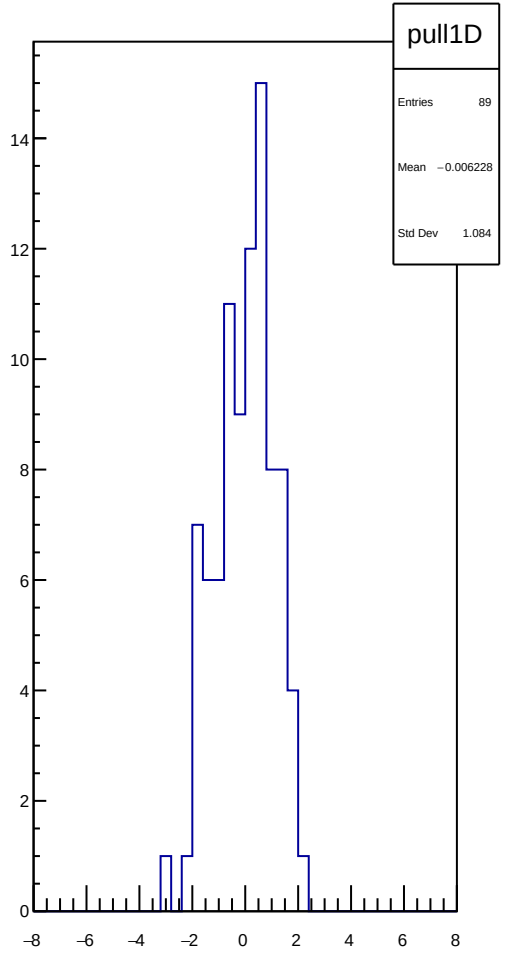

asym_bpm0l09WS_rms vs run
χ² / ndf 1.087e+04 / 88
p0 245.7 ± 0.1898
320
300
280
260
240
220
200

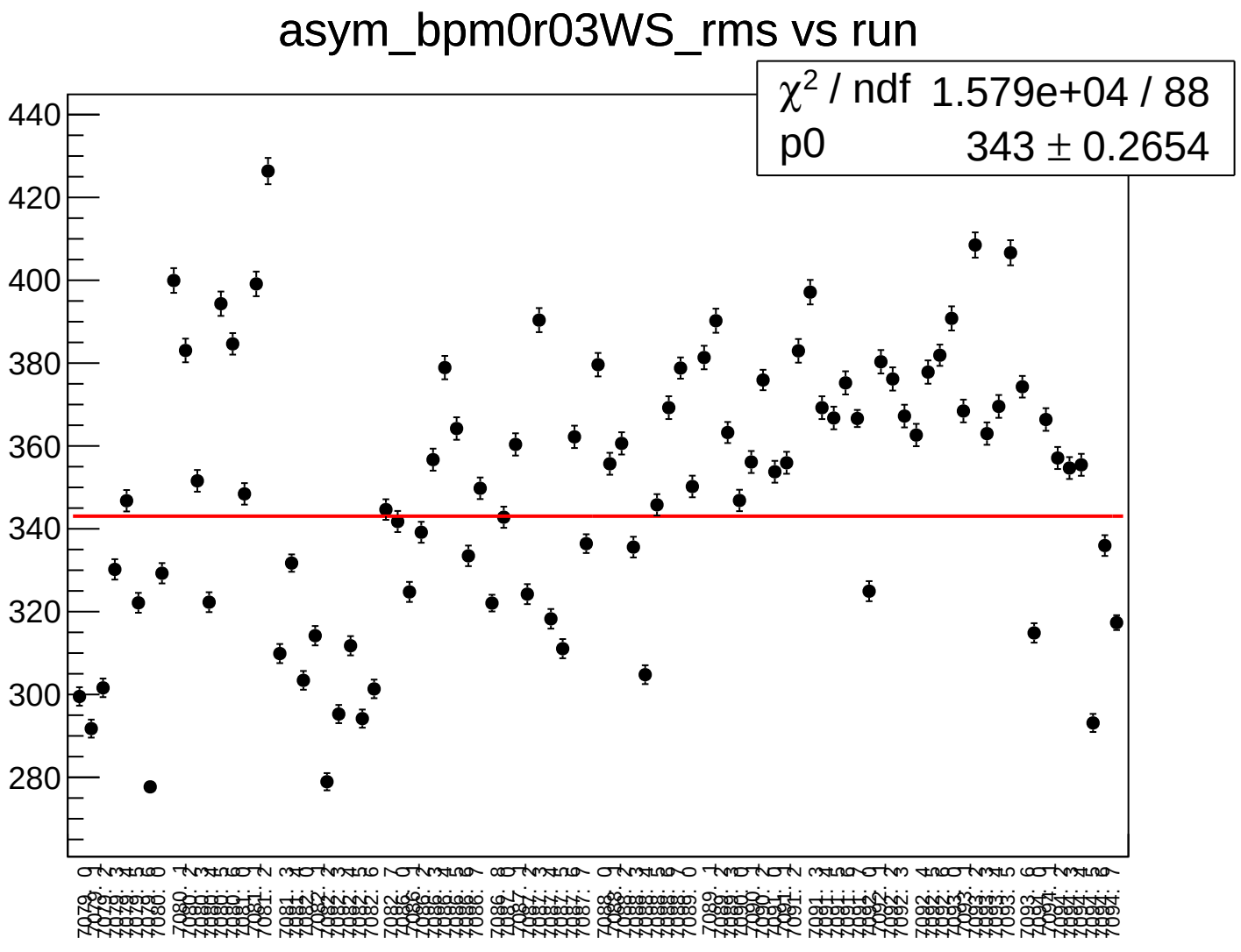

asym_bpm0l10WS_mean vs run
χ^2 / ndf 122.6 / 88
p0 501.5 ± 272.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −113.9
Std Dev 0
2
1
0
−1
−2
−3

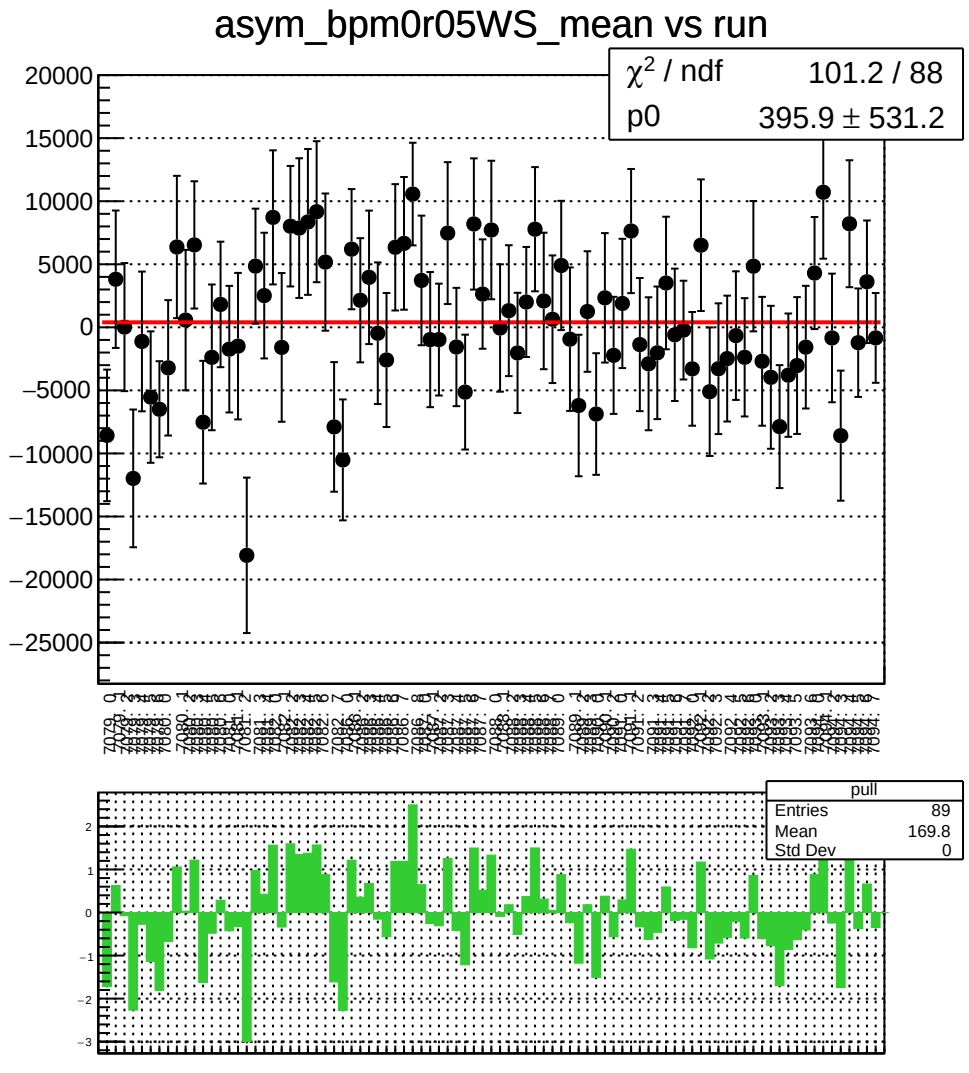

pull1D
Entries 89
Mean −0.01731
Std Dev 1.174
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

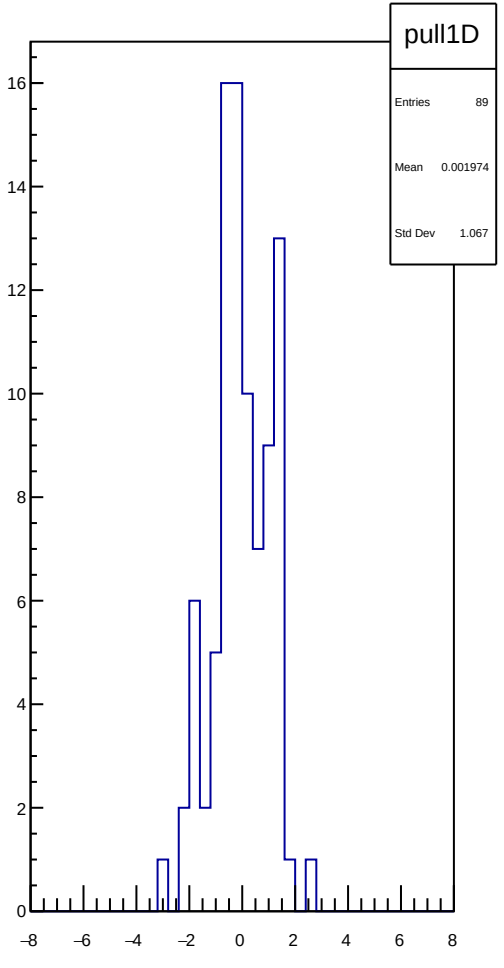

asym_bpm0l10WS_rms vs run
χ² / ndf 1.154e+04 / 88
p0 249.4 ± 0.1927
320
300
280
260
240
220
200

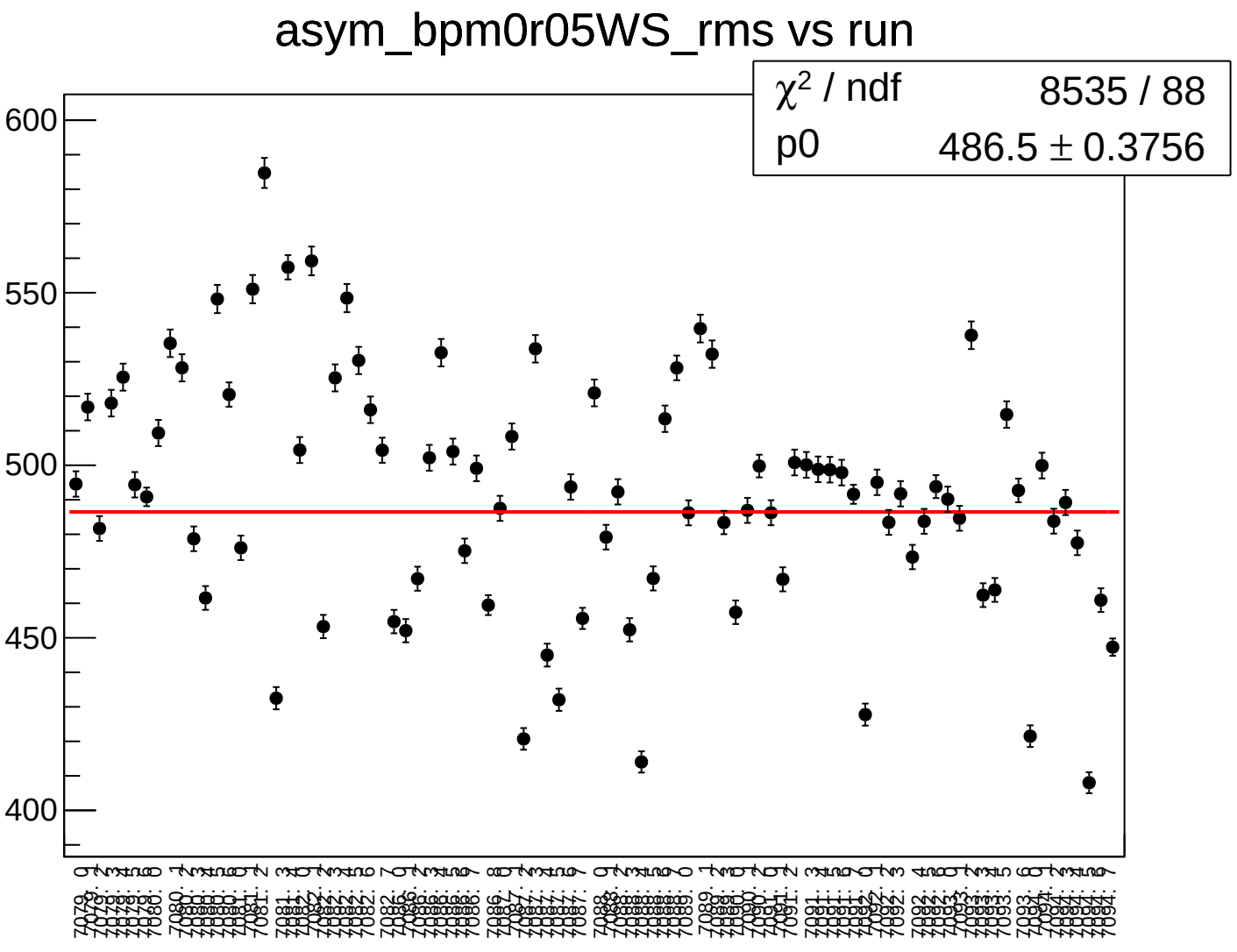

asym_bpm0r03WS_mean vs run
χ² / ndf 104.6 / 88
p0 1042 ± 375.4
pull
Entries 89
Mean −87.53
Std Dev 138

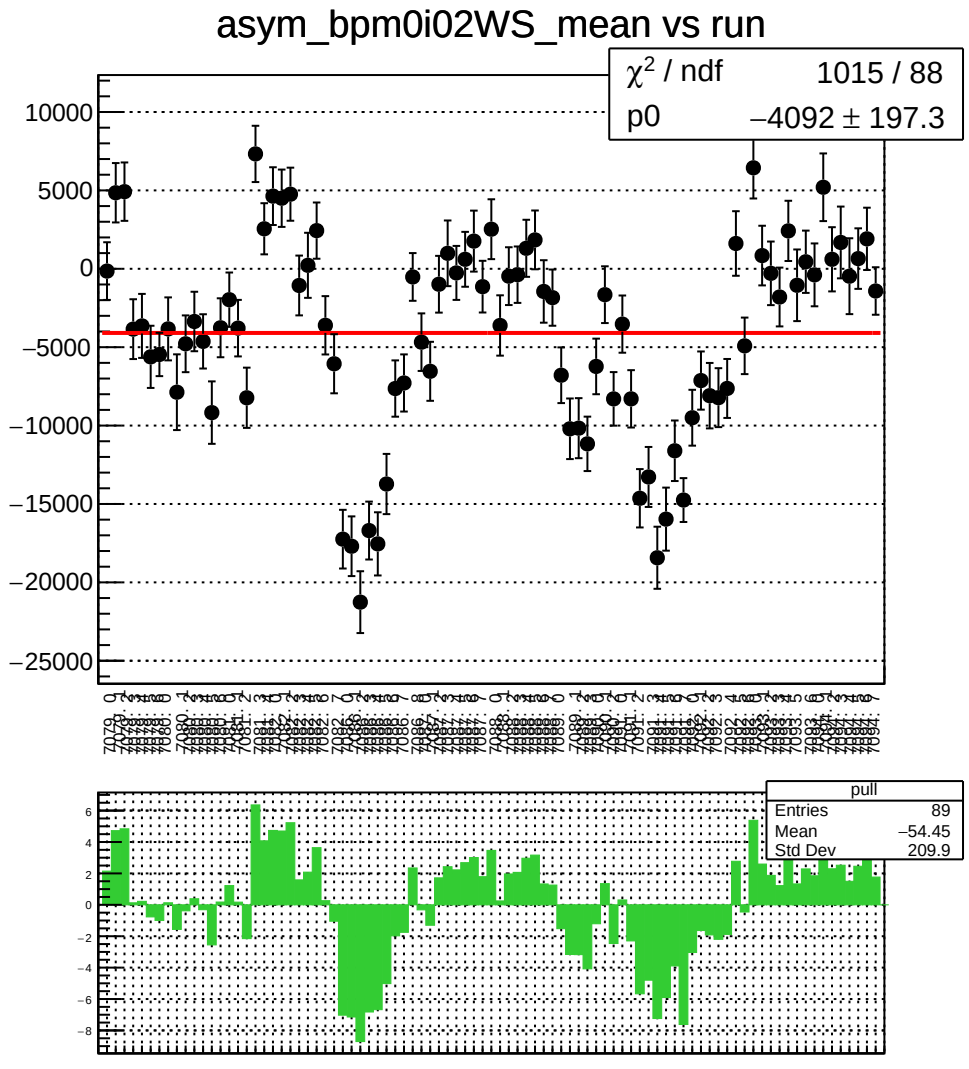

pull1D
Entries 89
Mean −0.006228
Std Dev 1.084

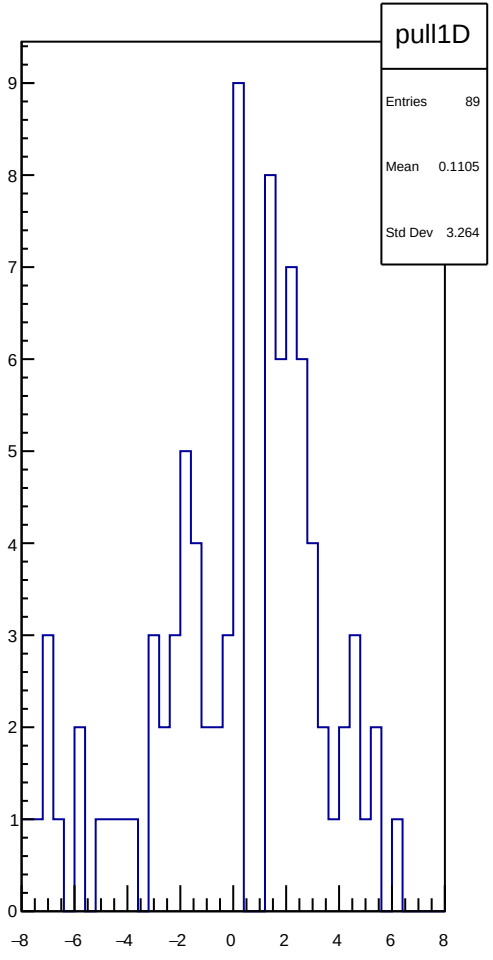

asym_bpm0r03WS_rms vs run
χ^2 / ndf 1.579e+04 / 88
p0 343 ± 0.2654
440
420
400
380
360
340
320
300
280

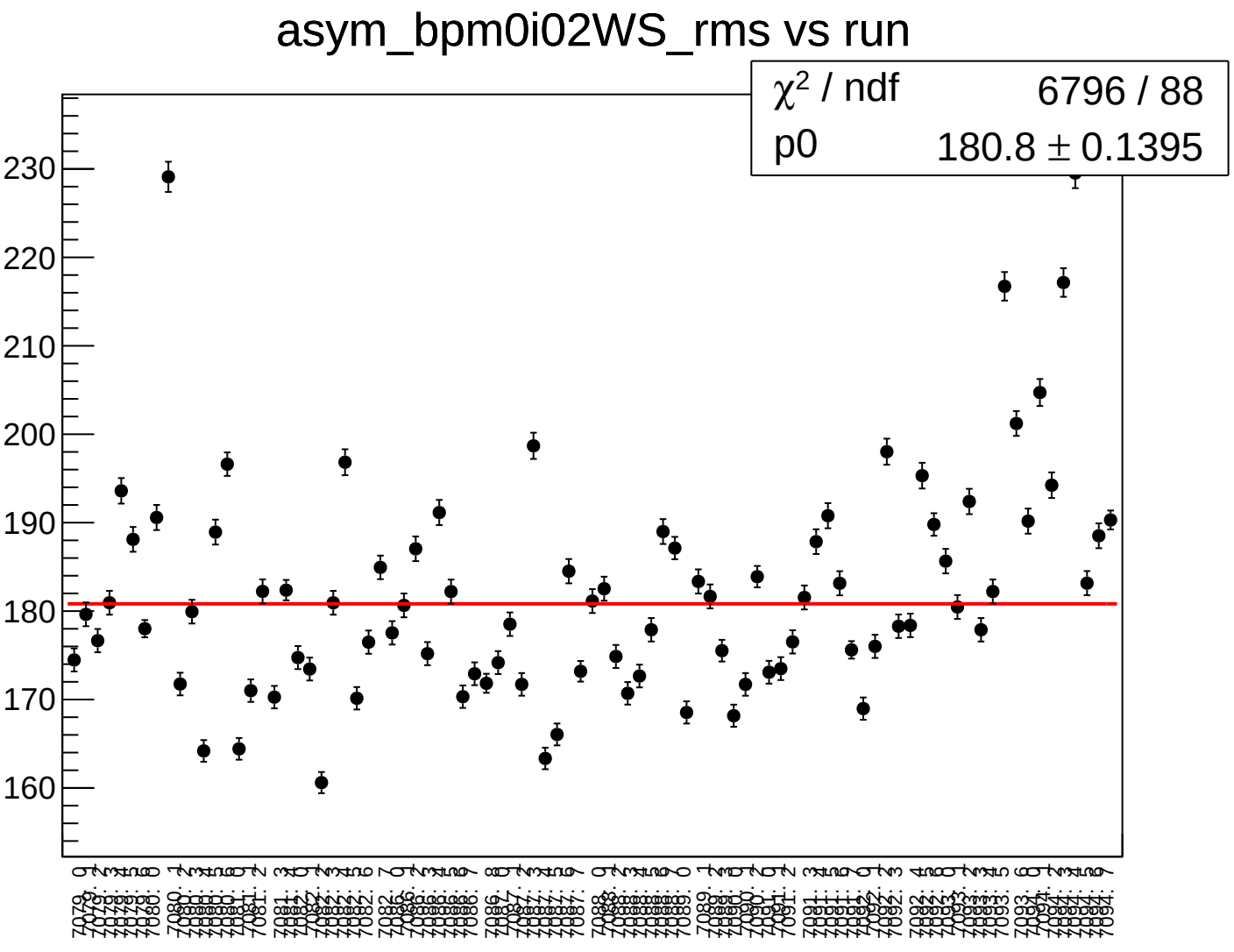

asym_bpm0r05WS_mean vs run
χ² / ndf 101.2 / 88
p0 395.9 ± 531.2
pull
Entries 89
Mean 169.8
Std Dev 0

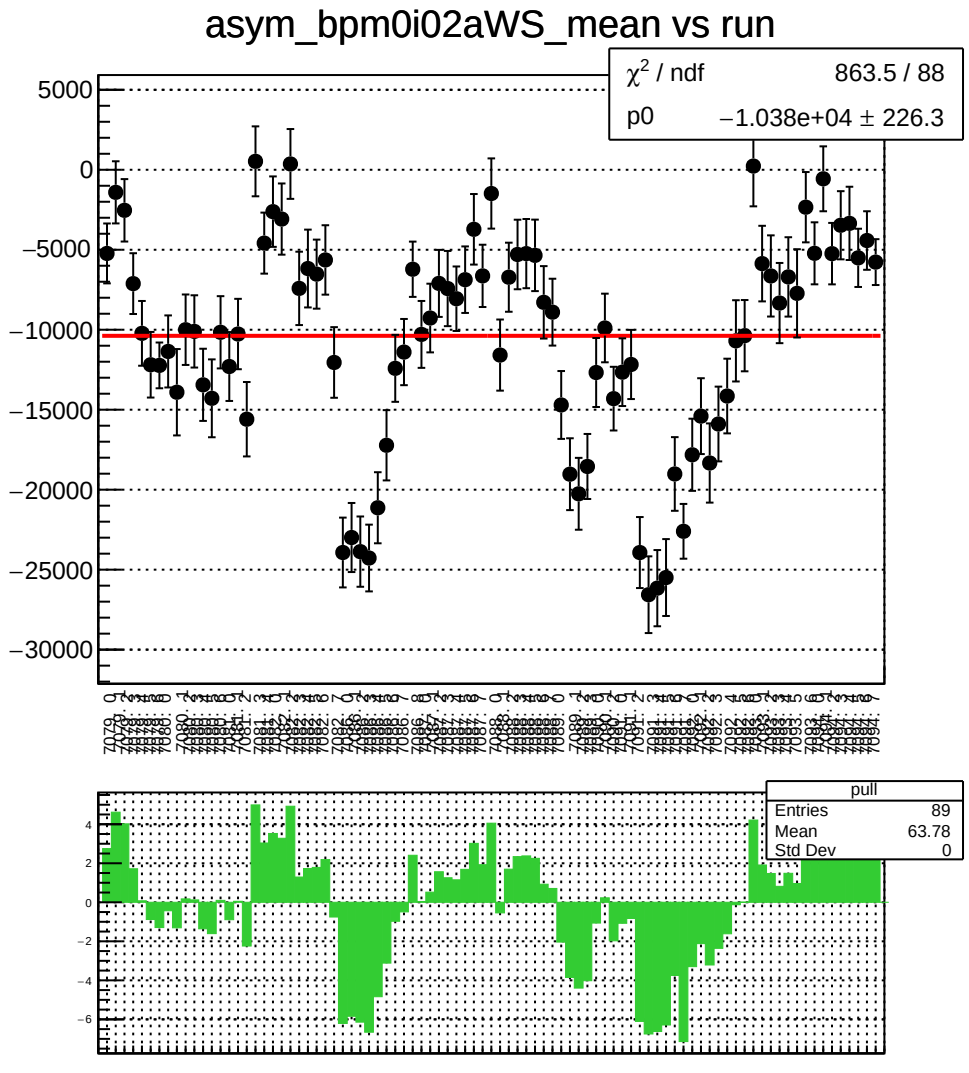

pull1D
Entries 89
Mean 0.001974
Std Dev 1.067

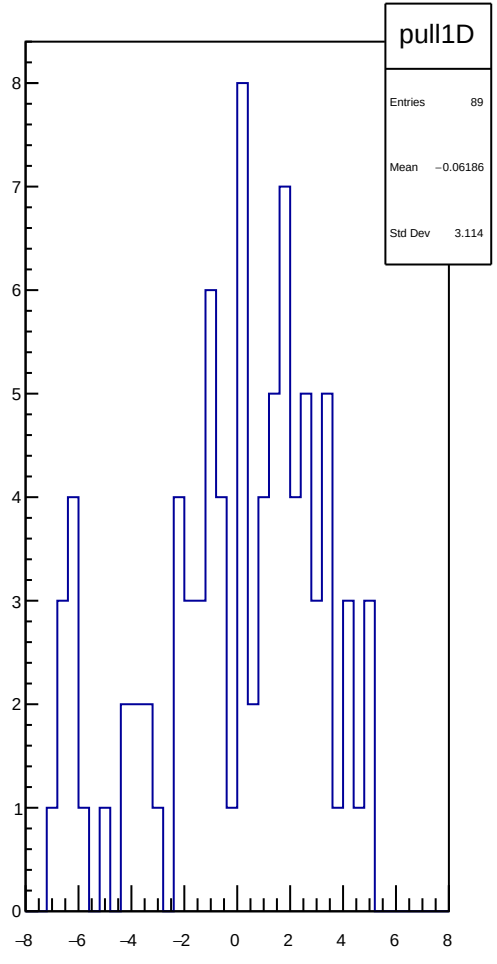

asym_bpm0r05WS_rms vs run
χ² / ndf 8535 / 88
p0 486.5 ± 0.3756
600
550
500
450
400

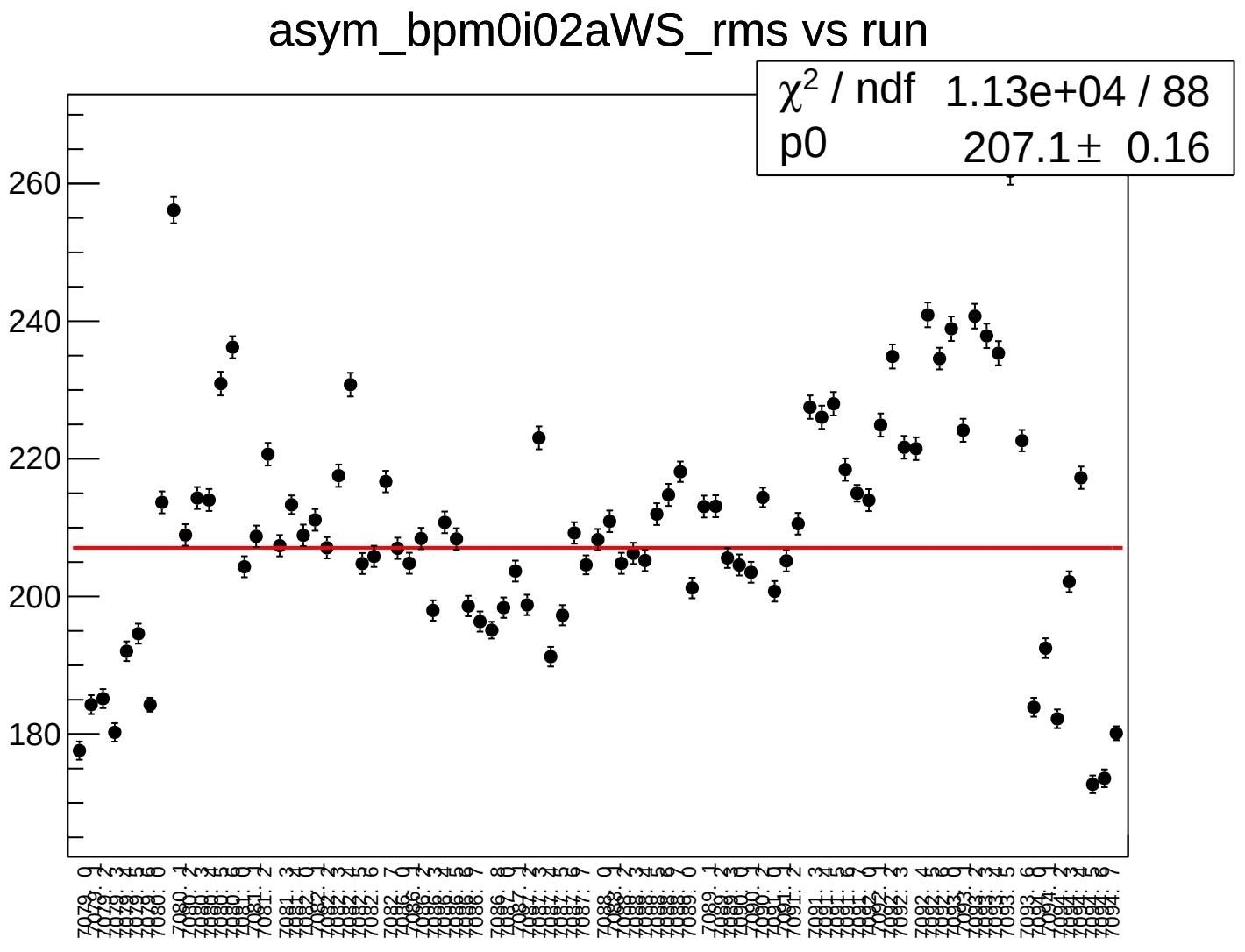

asym_bpm0i02WS_mean vs run
χ² / ndf 1015 / 88
p0 −4092 ± 197.3
pull
Entries 89
Mean −54.45
Std Dev 209.9

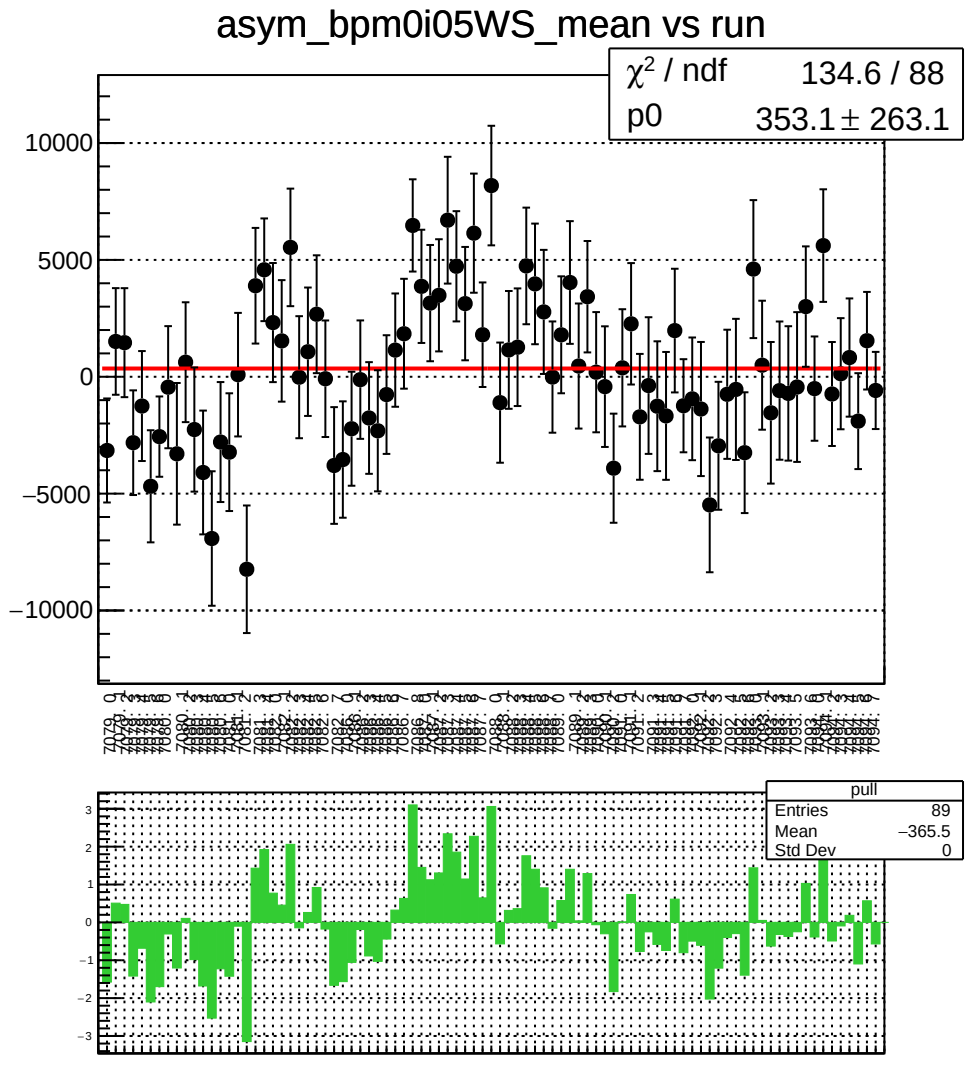

pull1D
Entries 89
Mean 0.1105
Std Dev 3.264

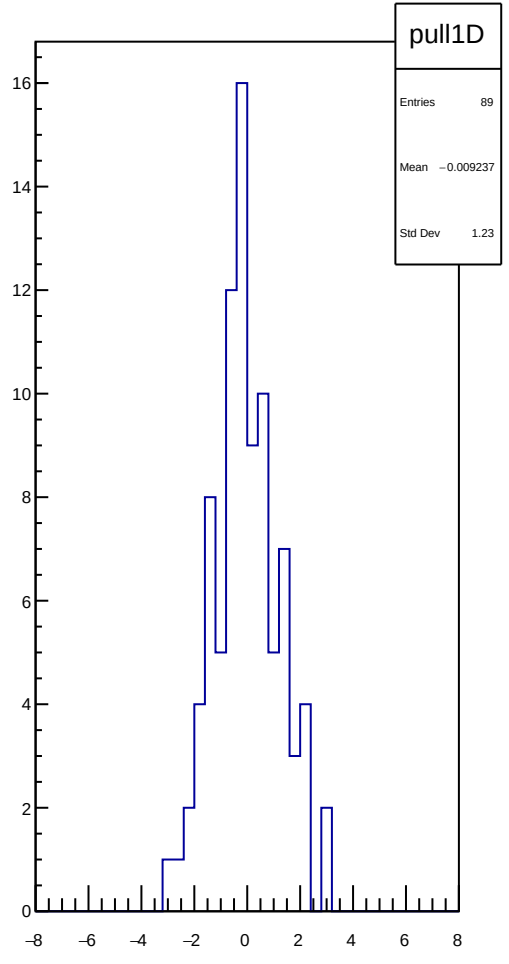

asym_bpm0i02WS_rms vs run
χ² / ndf 6796 / 88
p0 180.8 ± 0.1395
230
220
210
200
190
180
170
160

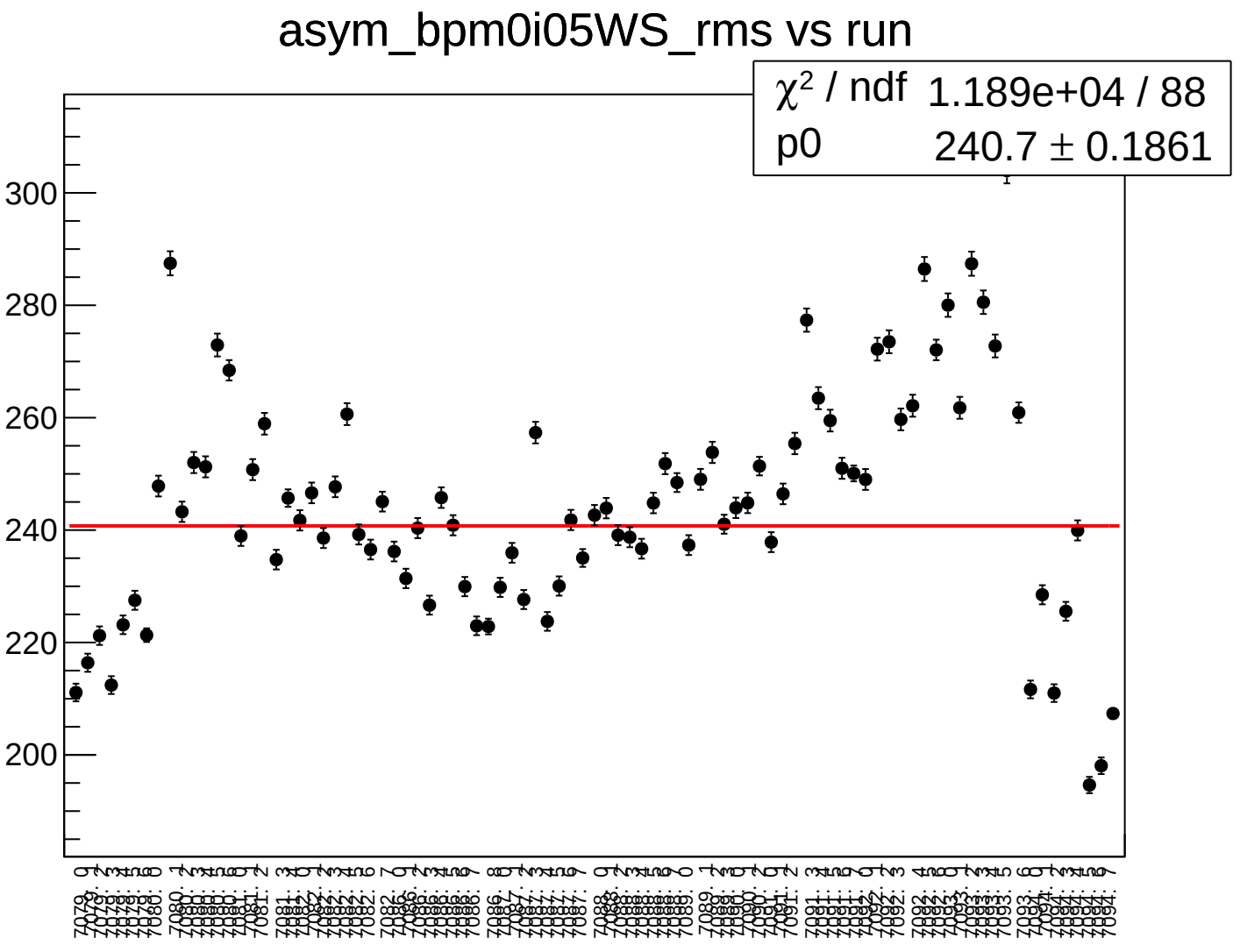

asym_bpm0i02aWS_mean vs run
χ² / ndf 863.5 / 88
p0 −1.038e+04 ± 226.3
pull
Entries 89
Mean 63.78
Std Dev 0

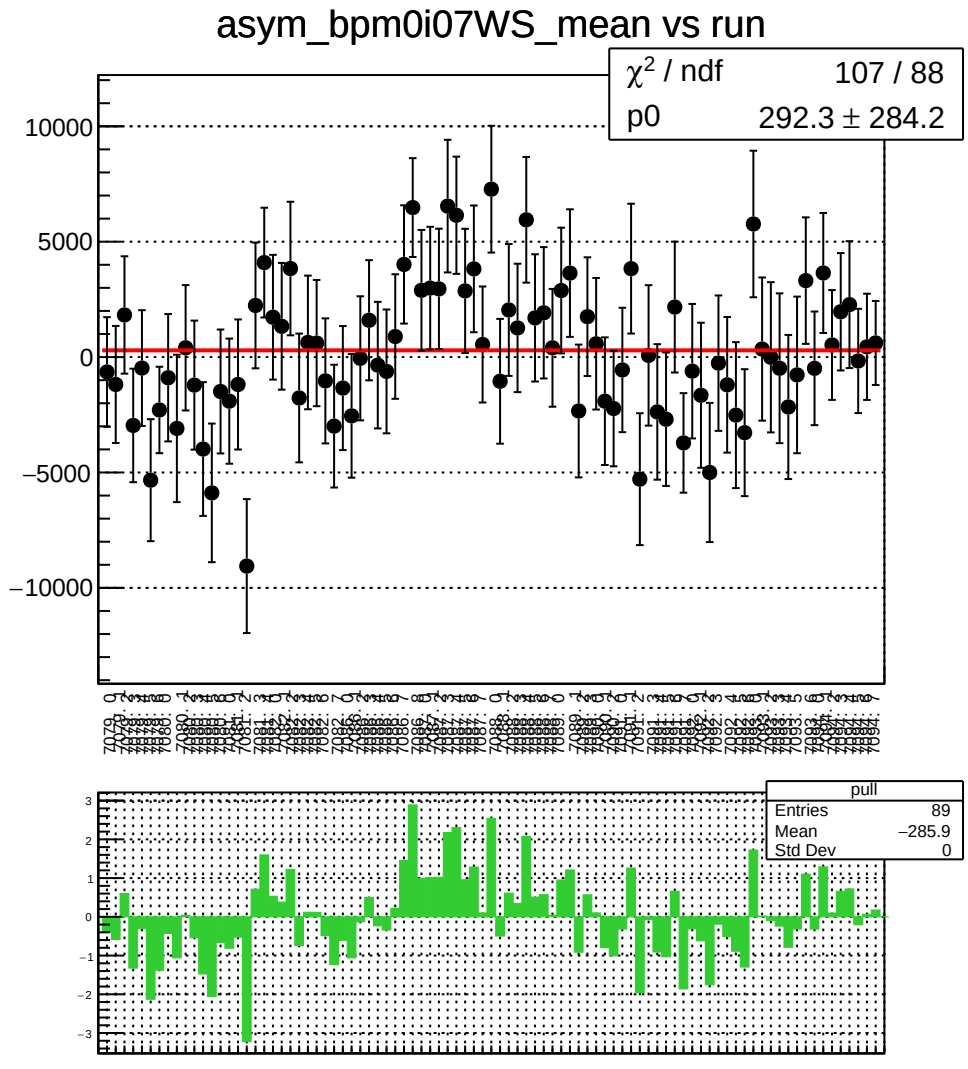

pull1D
Entries 89
Mean −0.06186
Std Dev 3.114

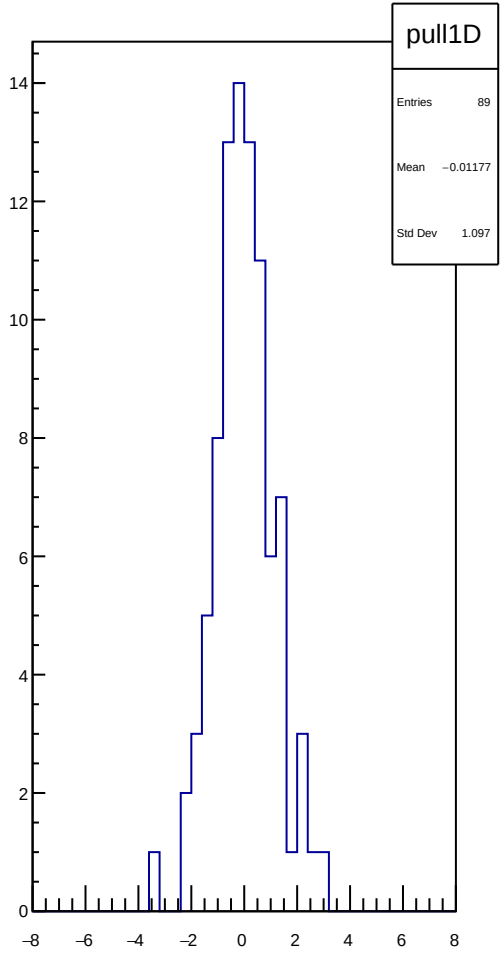

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.13e+04 / 88
p0 207.1 ± 0.16
260
240
220
200
180

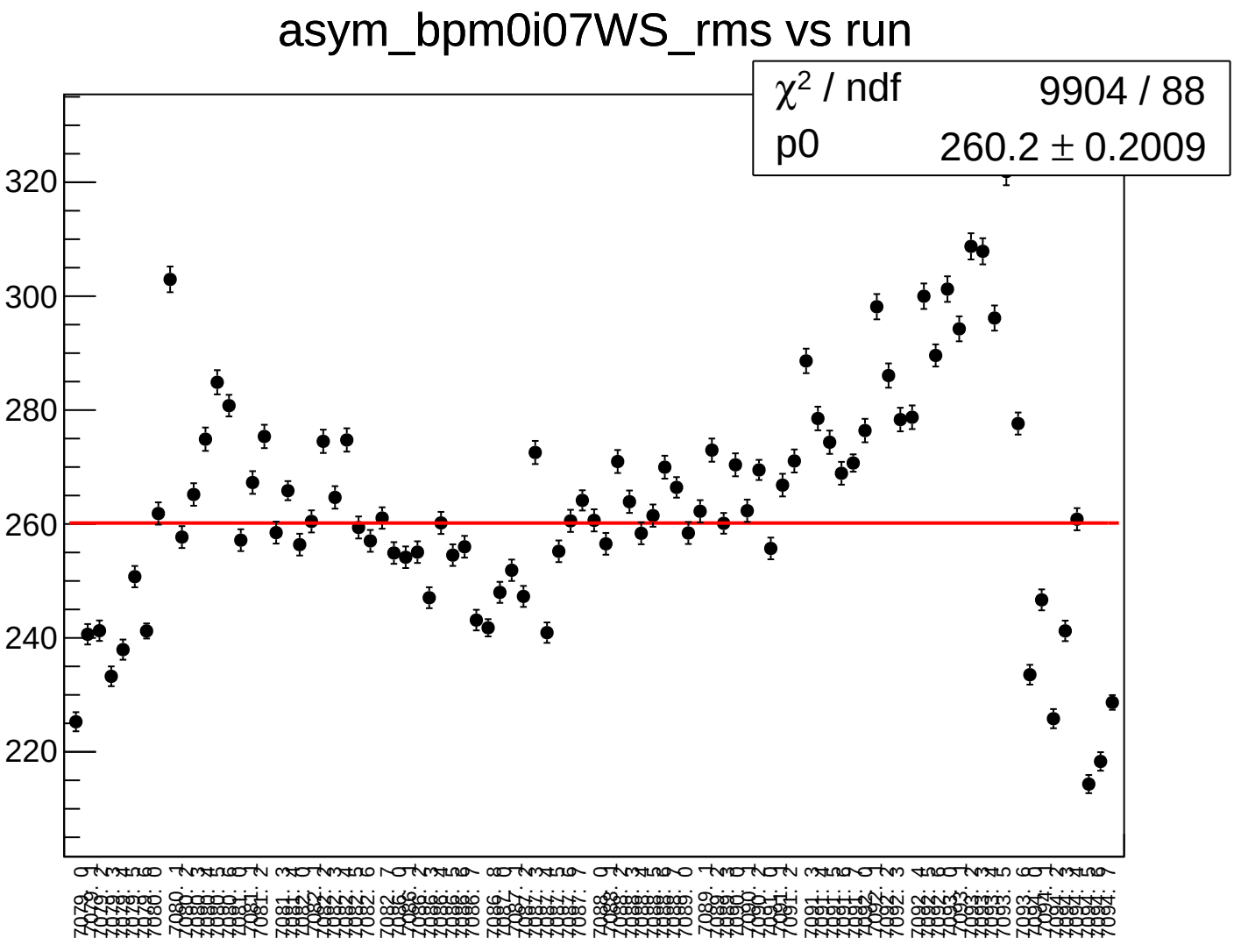

asym_bpm0i05WS_mean vs run
χ² / ndf 134.6 / 88
p0 353.1 ± 263.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −365.5
Std Dev 0
3
2
1
0
−1
−2
−3

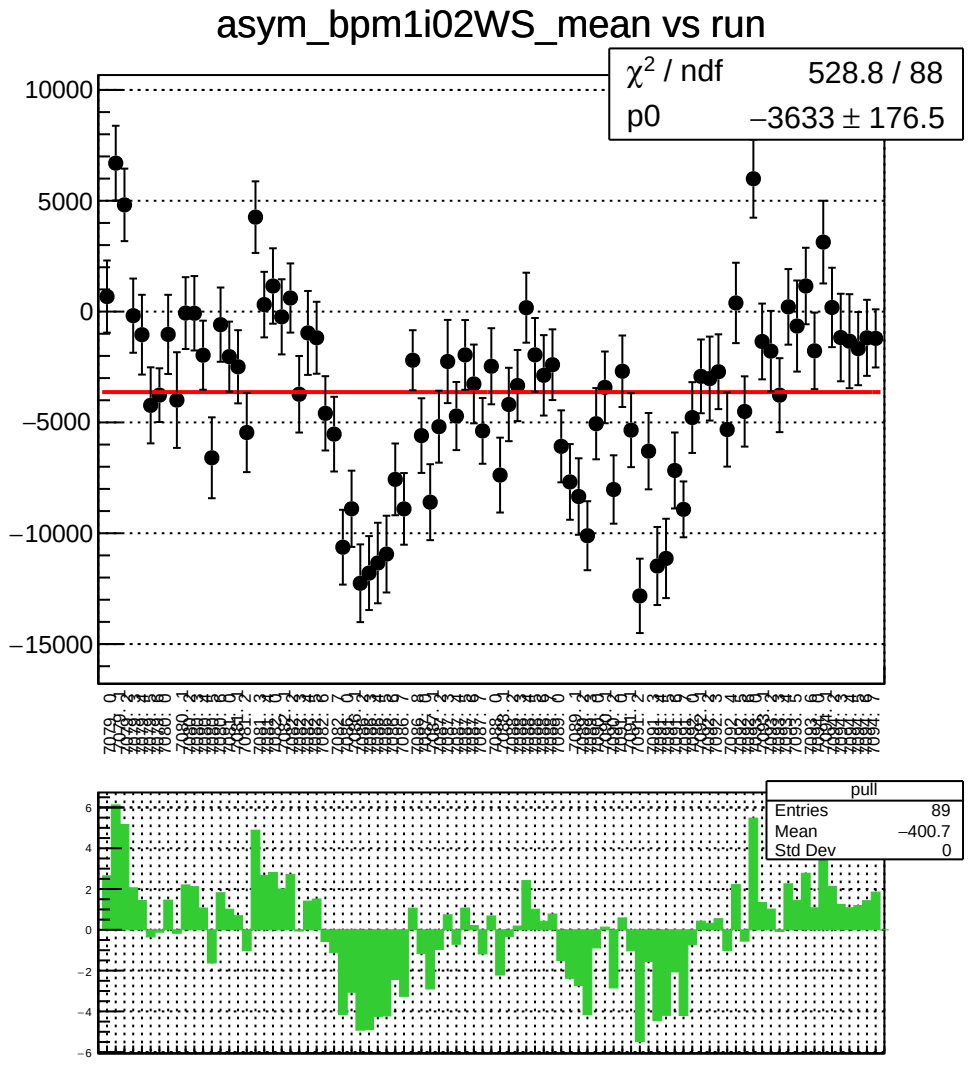

pull1D
Entries 89
Mean −0.009237
Std Dev 1.23
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

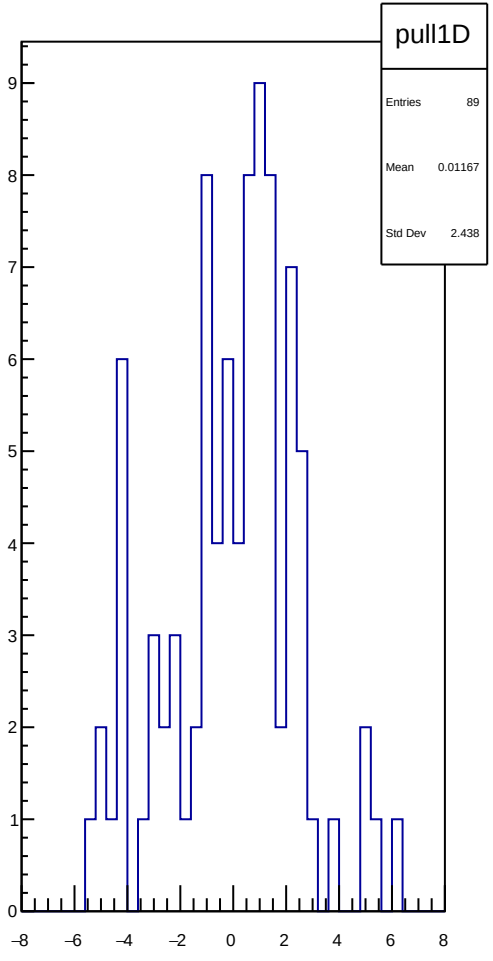

asym_bpm0i05WS_rms vs run
χ² / ndf 1.189e+04 / 88
p0 240.7 ± 0.1861
300
280
260
240
220
200

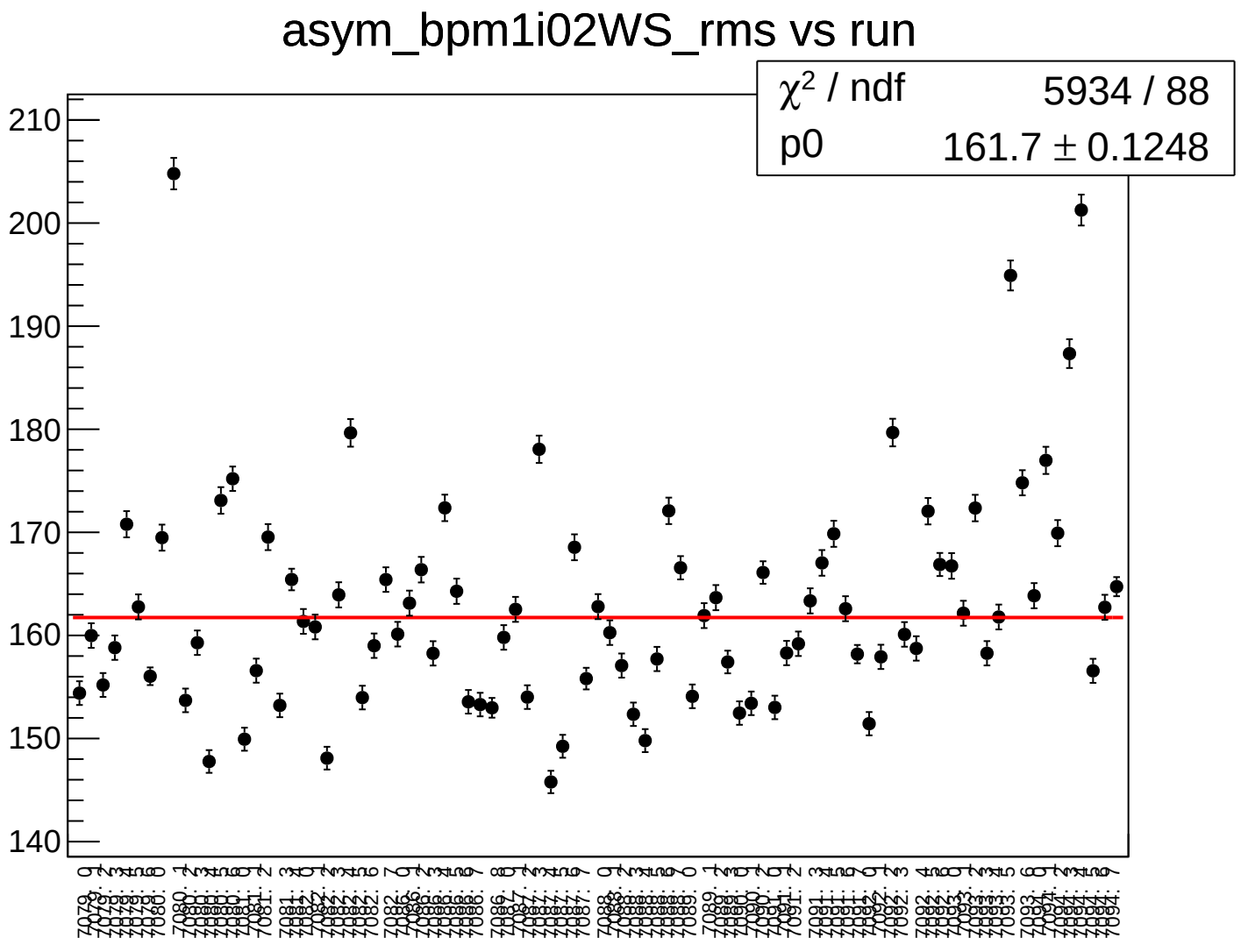

asym_bpm0i07WS_mean vs run
χ² / ndf 107 / 88
p0 292.3 ± 284.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −285.9
Std Dev 0
3
2
1
0
−1
−2
−3

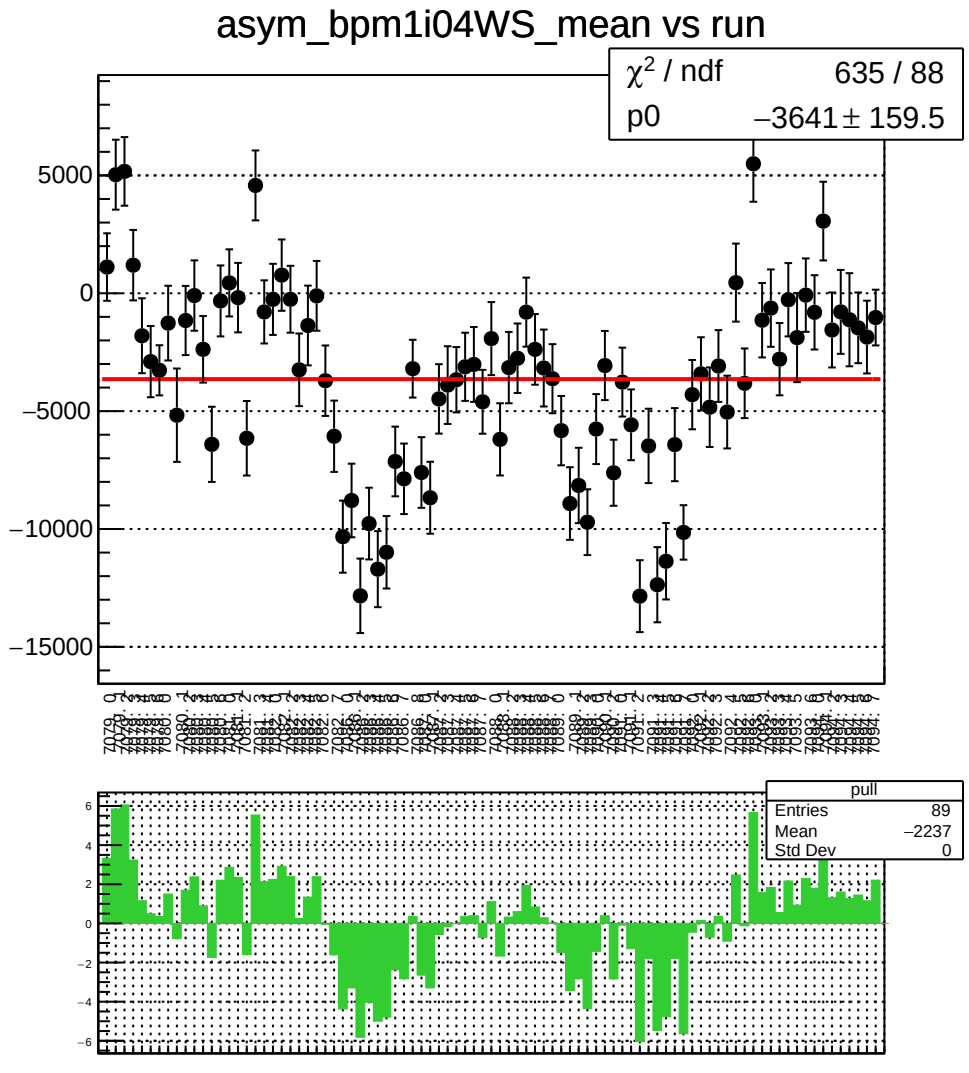

pull1D
Entries 89
Mean −0.01177
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

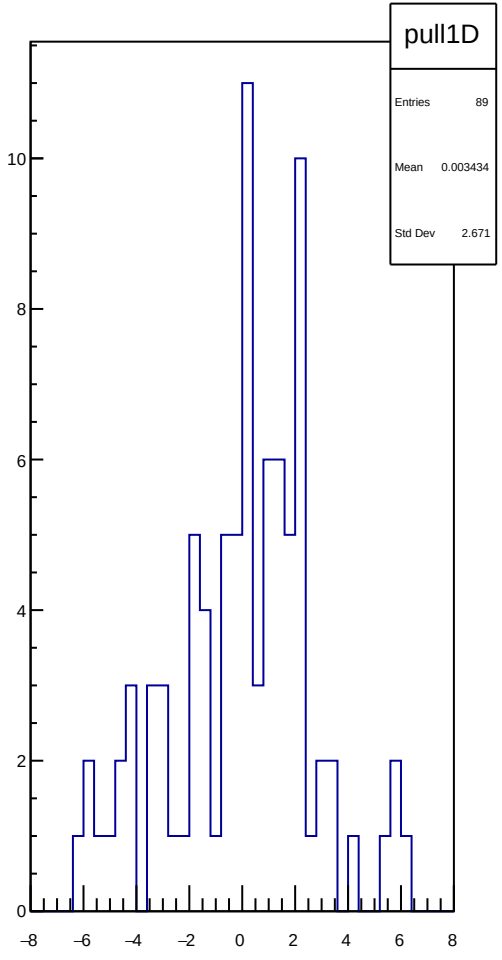

asym_bpm0i07WS_rms vs run
χ² / ndf 9904 / 88
p0 260.2 ± 0.2009
320
300
280
260
240
220

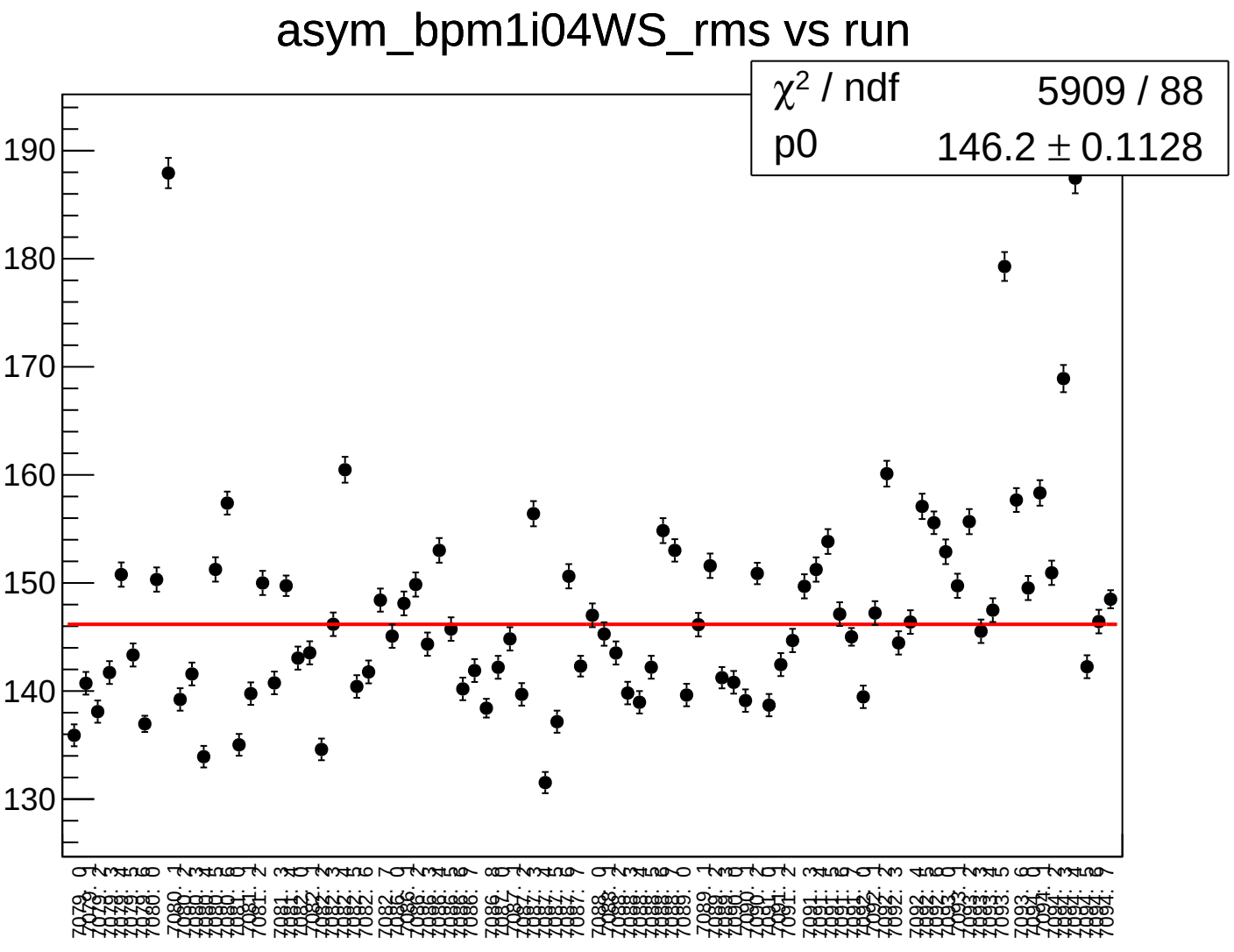

asym_bpm1i02WS_mean vs run
χ² / ndf 528.8 / 88
p0 −3633 ± 176.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −400.7
Std Dev 0
6
4
2
0
−2
−4
−6

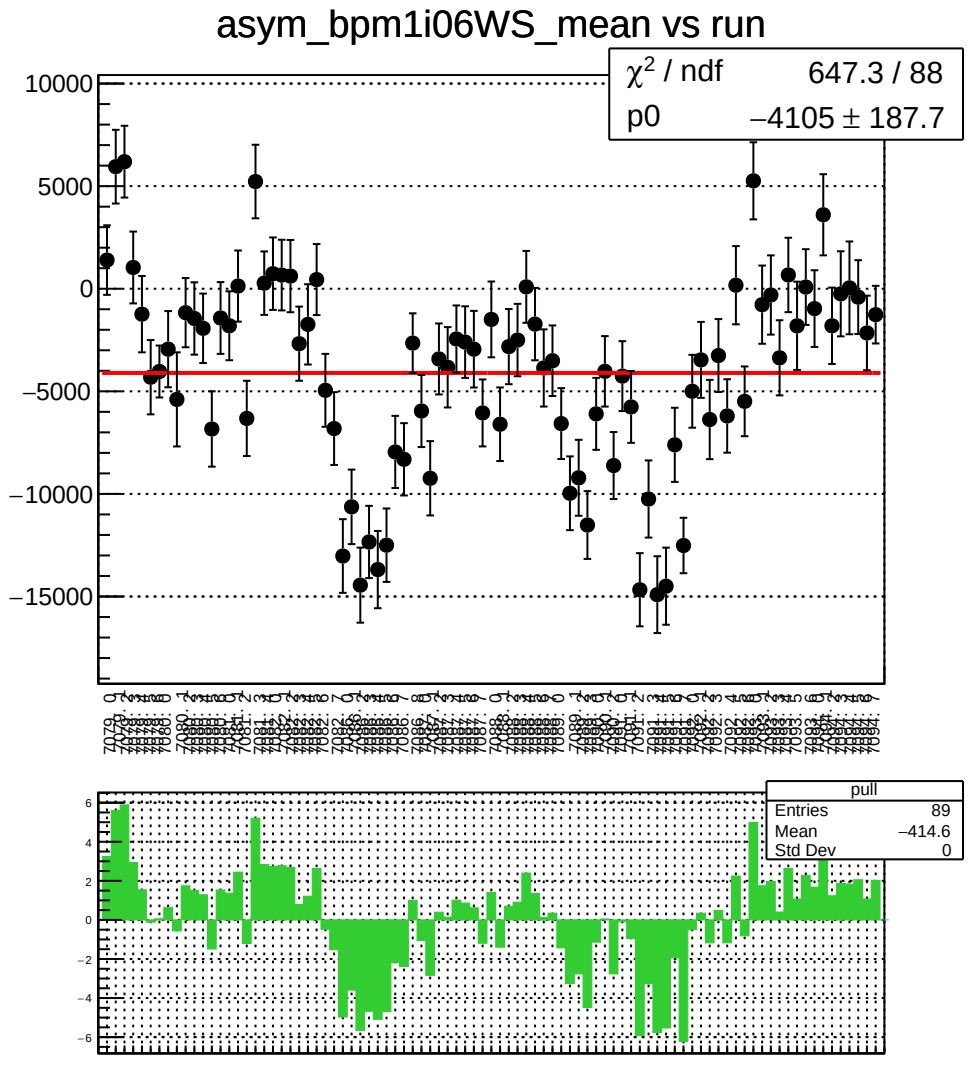

pull1D
Entries 89
Mean 0.01167
Std Dev 2.438
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

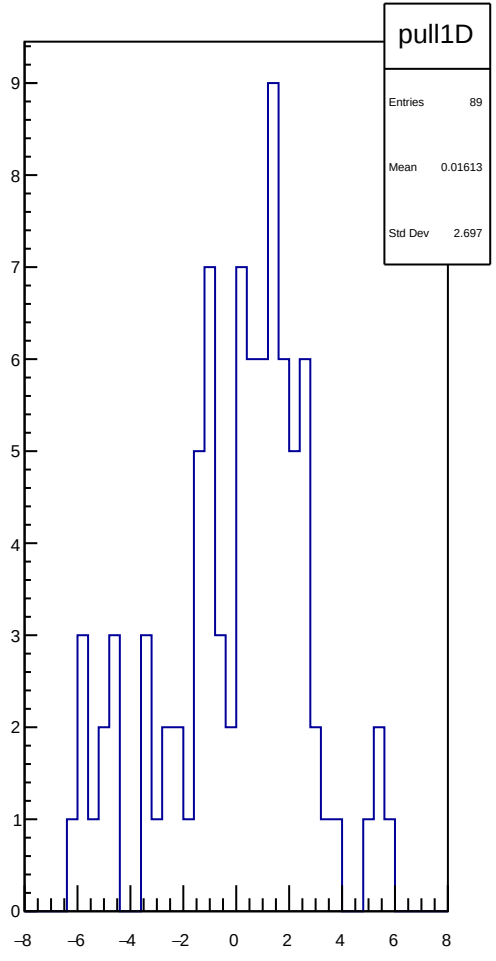

asym_bpm1i02WS_rms vs run
χ² / ndf 5934 / 88
p0 161.7 ± 0.1248
210
200
190
180
170
160
150
140

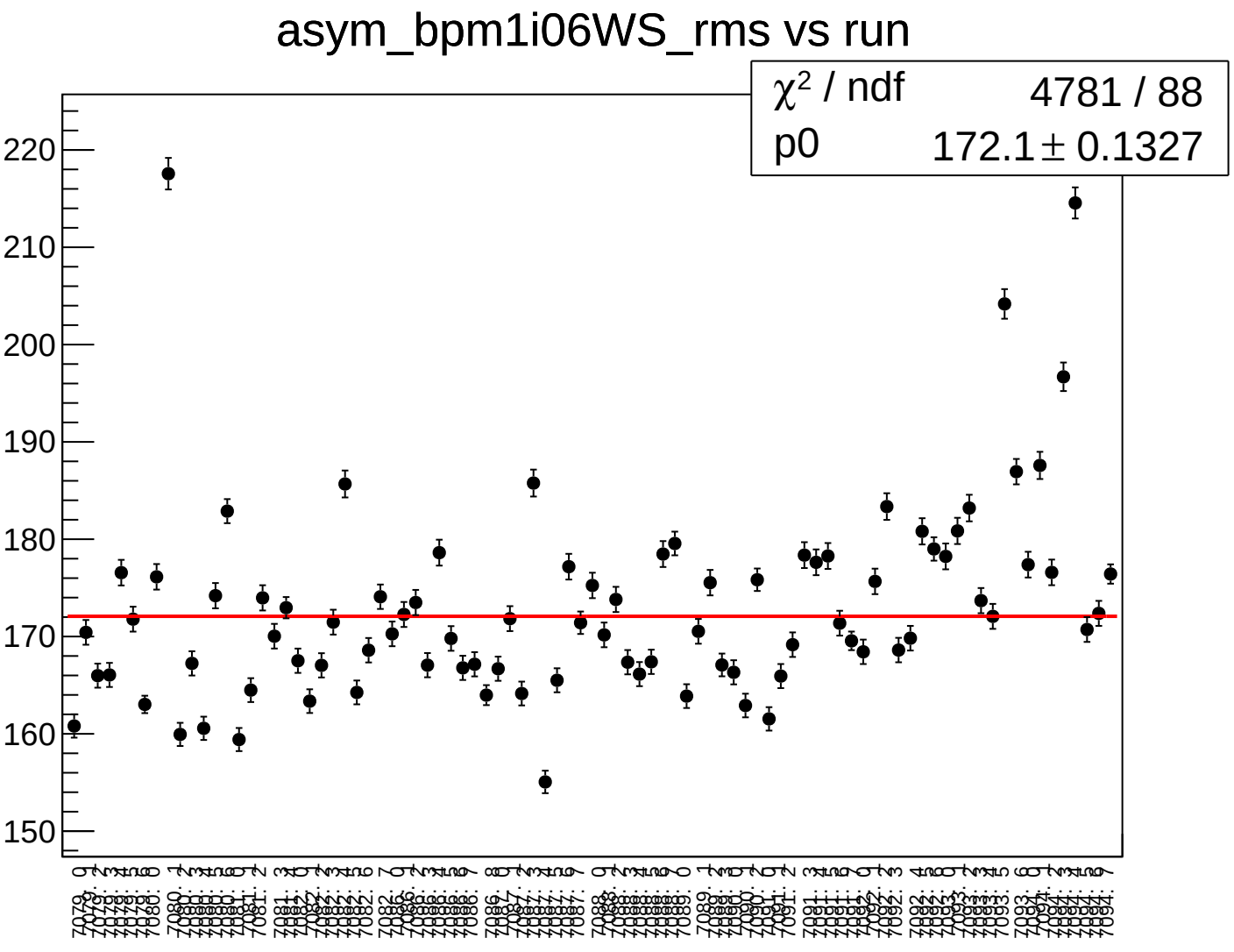

asym_bpm1i04WS_mean vs run
χ² / ndf 635 / 88
p0 −3641 ± 159.5
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −2237
Std Dev 0
6
4
2
0
−2
−4
−6

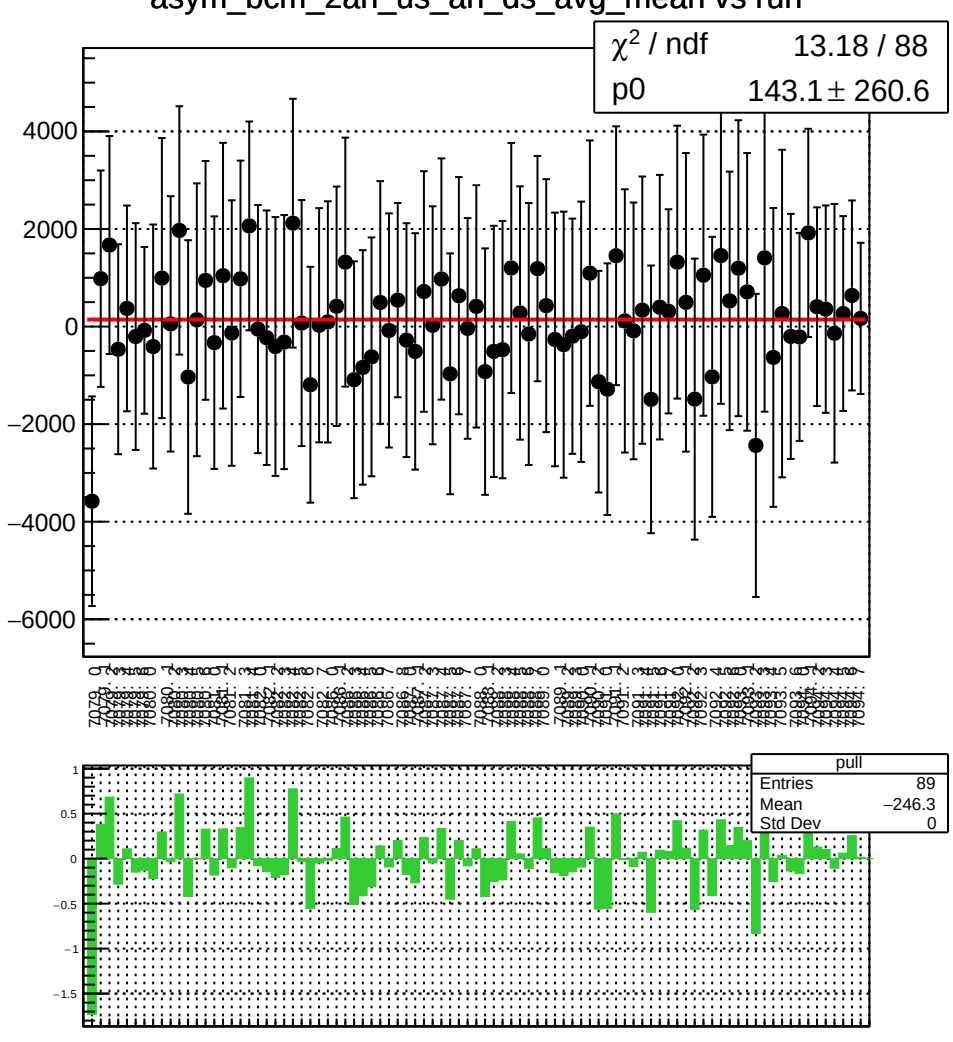

pull1D
Entries 89
Mean 0.003434
Std Dev 2.671
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

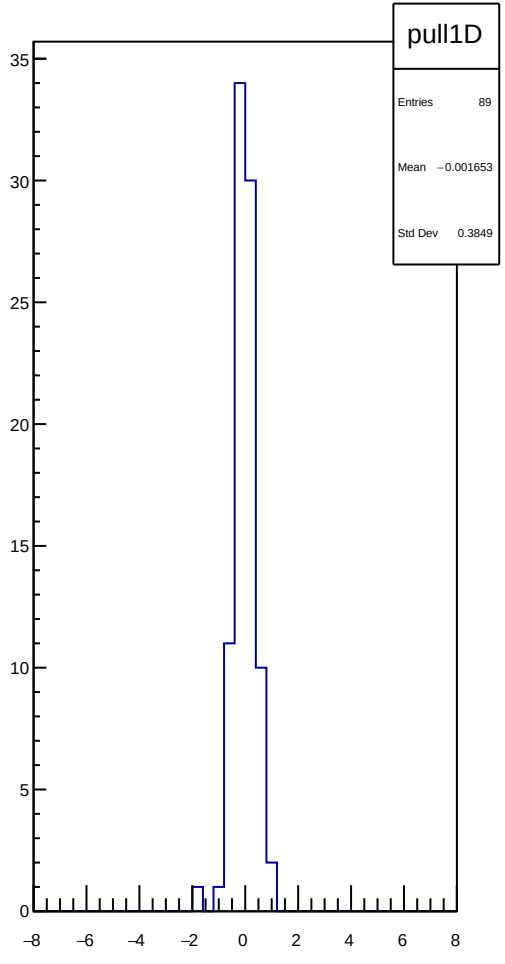

asym_bpm1i04WS_rms vs run
χ² / ndf 5909 / 88
p0 146.2 ± 0.1128
190
180
170
160
150
140
130

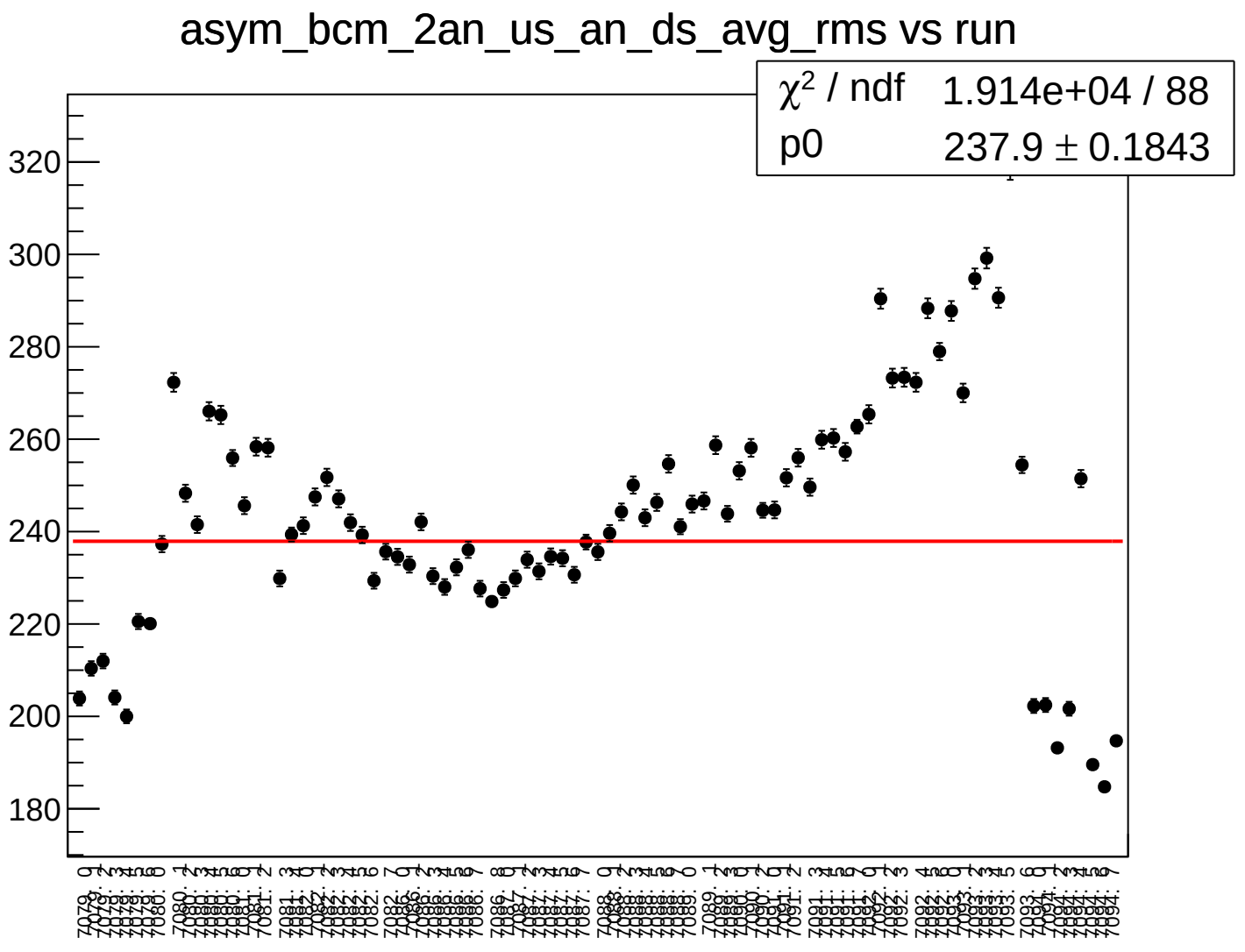

asym_bpm1i06WS_mean vs run
χ² / ndf 647.3 / 88
p0 −4105 ± 187.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −414.6
Std Dev 0
6
4
2
0
−2
−4
−6

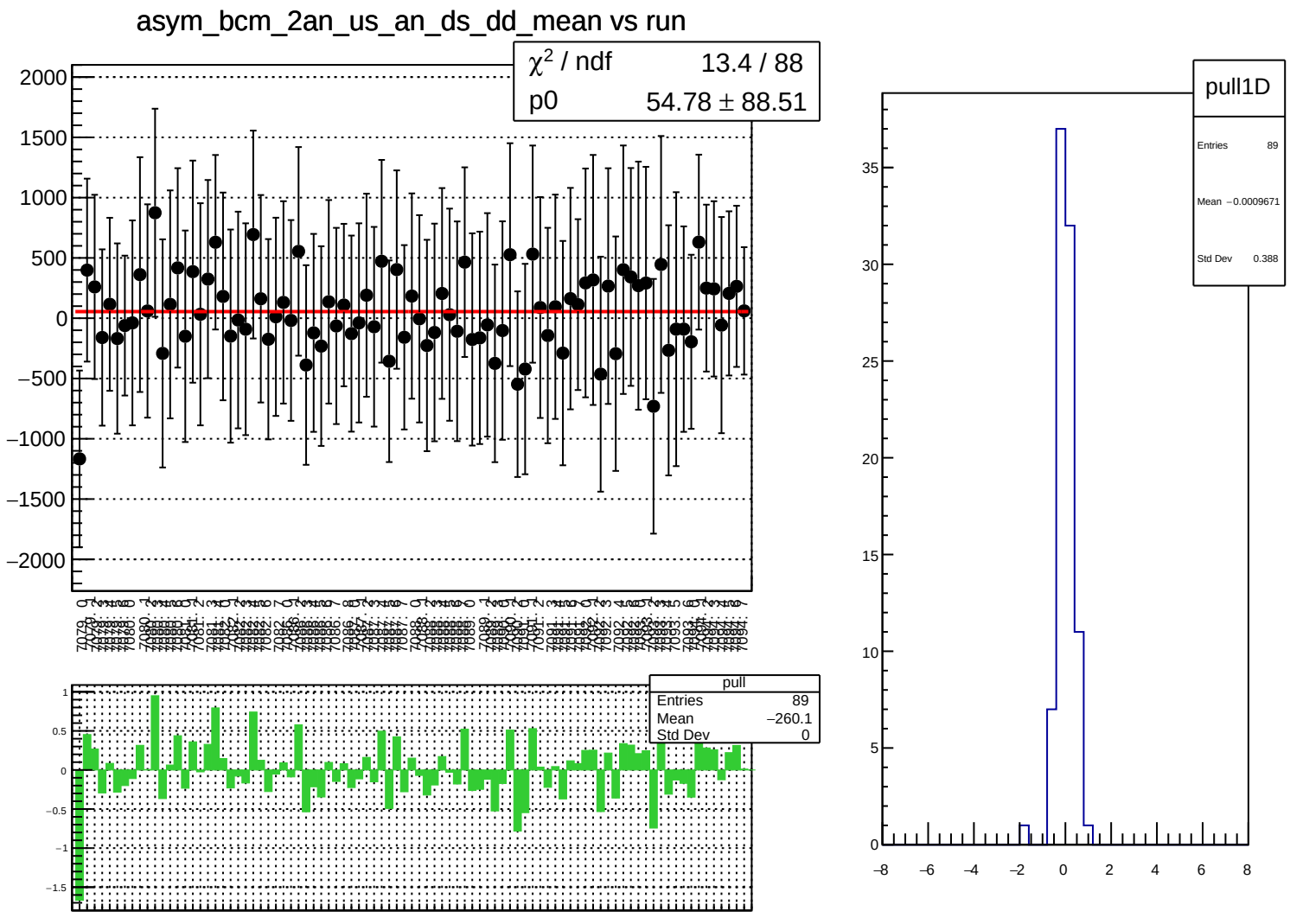

pull1D
Entries 89
Mean 0.01613
Std Dev 2.697
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

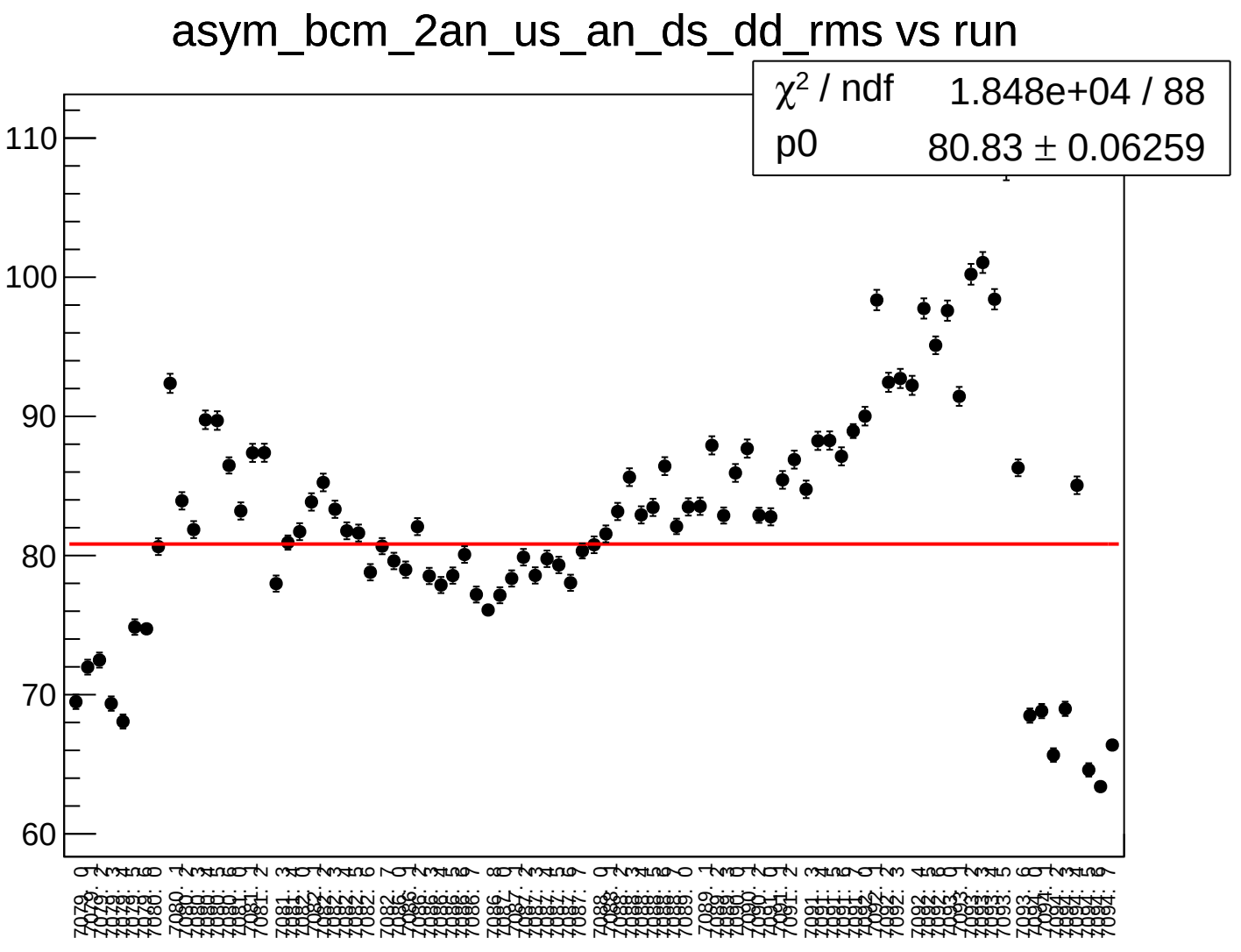

asym_bpm1i06WS_rms vs run
χ² / ndf 4781 / 88
p0 172.1 ± 0.1327
220
210
200
190
180
170
160
150

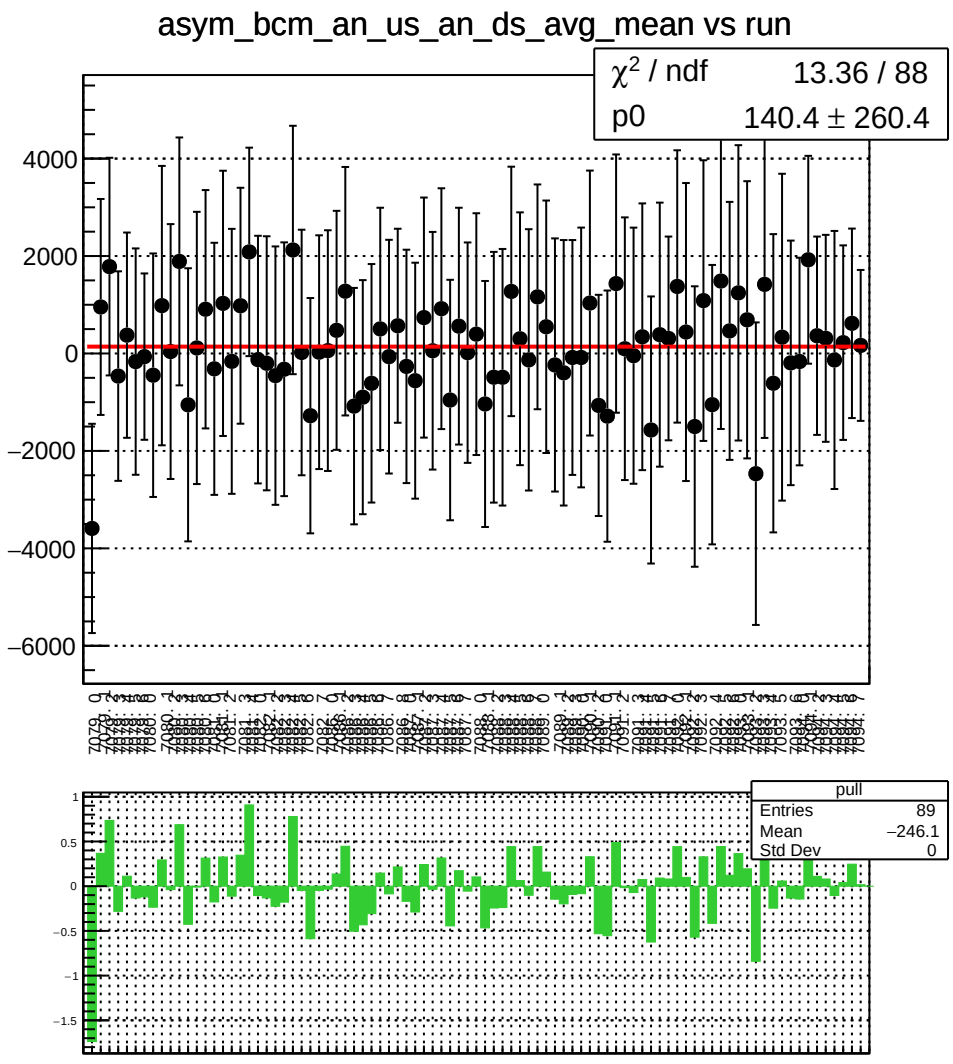

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 13.18 / 88
p0 143.1 ± 260.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −246.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

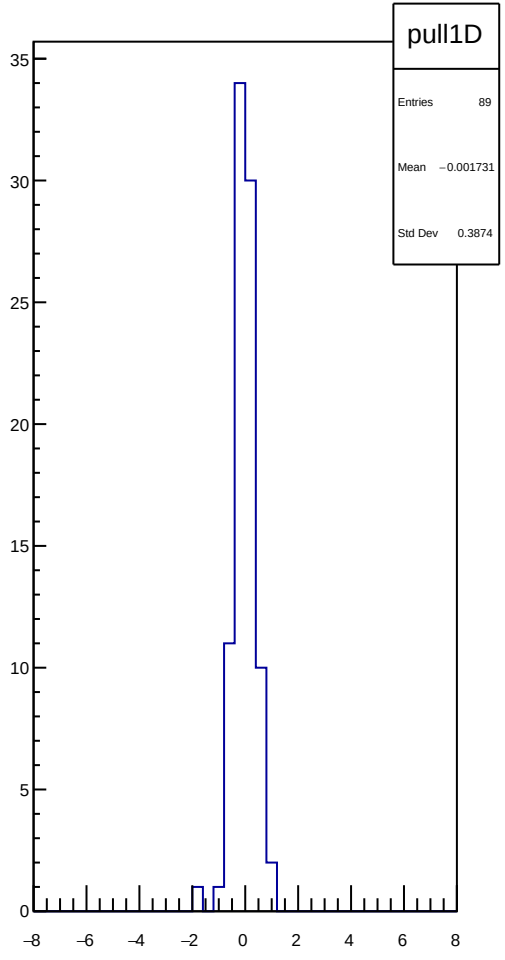

pull1D
Entries 89
Mean −0.001653
Std Dev 0.3849
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

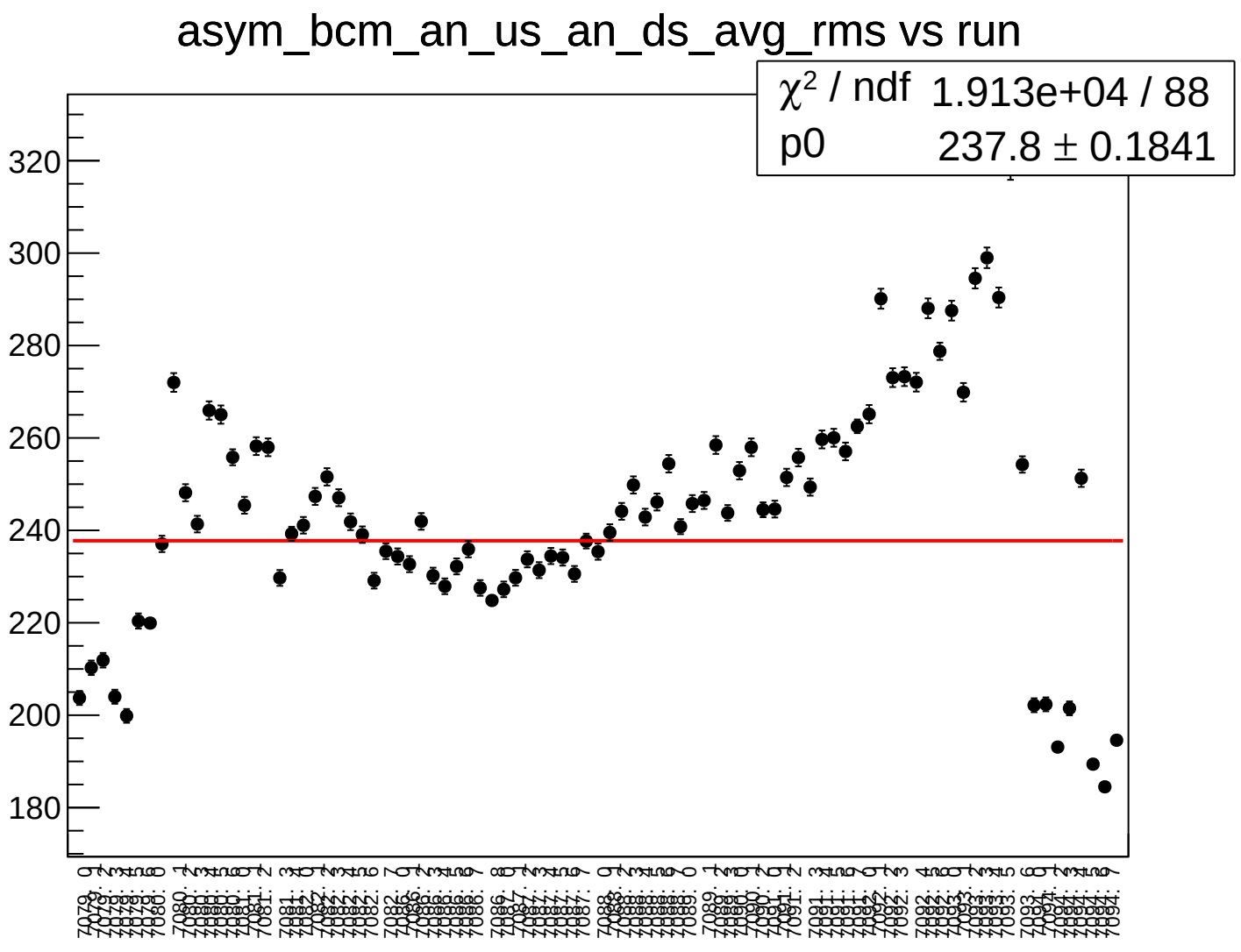

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.914e+04 / 88
p0 237.9 ± 0.1843
320
300
280
260
240
220
200
180

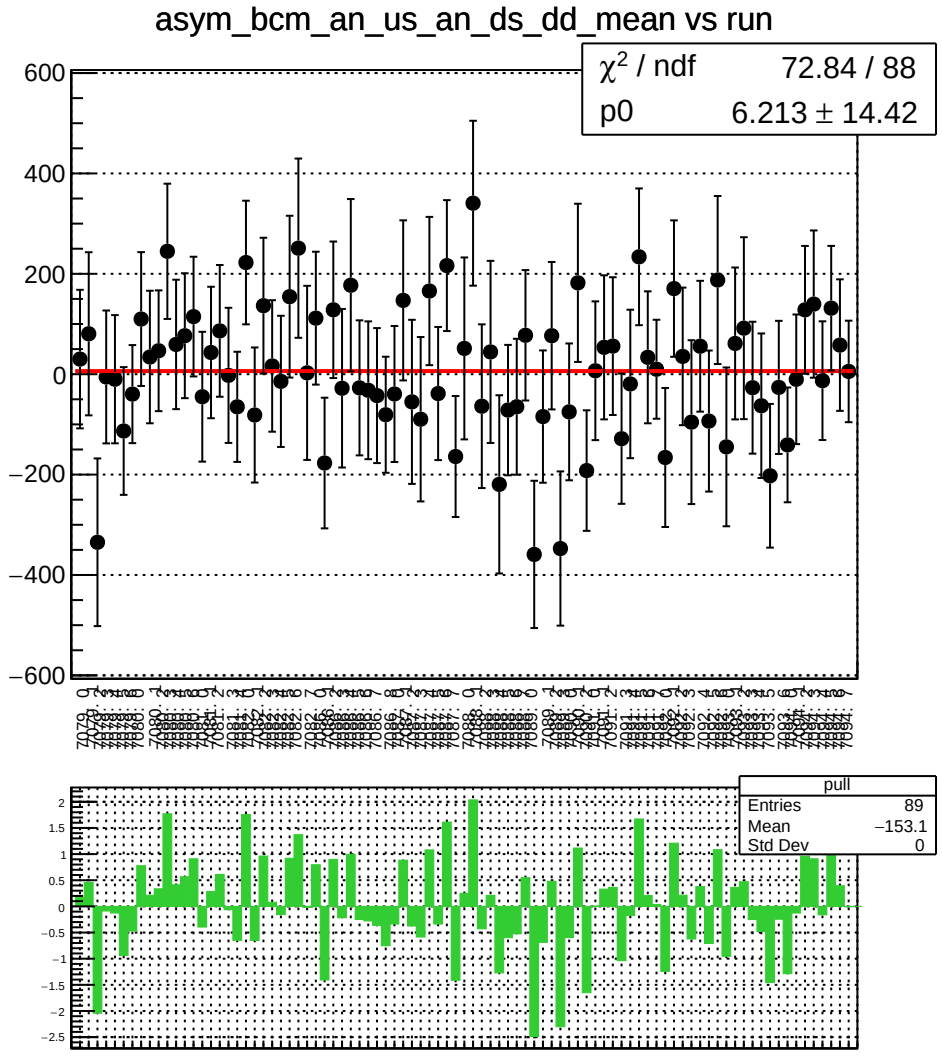

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 13.4 / 88
p0 54.78 ± 88.51
pull
Entries 89
Mean −260.1
Std Dev 0
pull1D
Entries 89
Mean −0.0009671
Std Dev 0.388

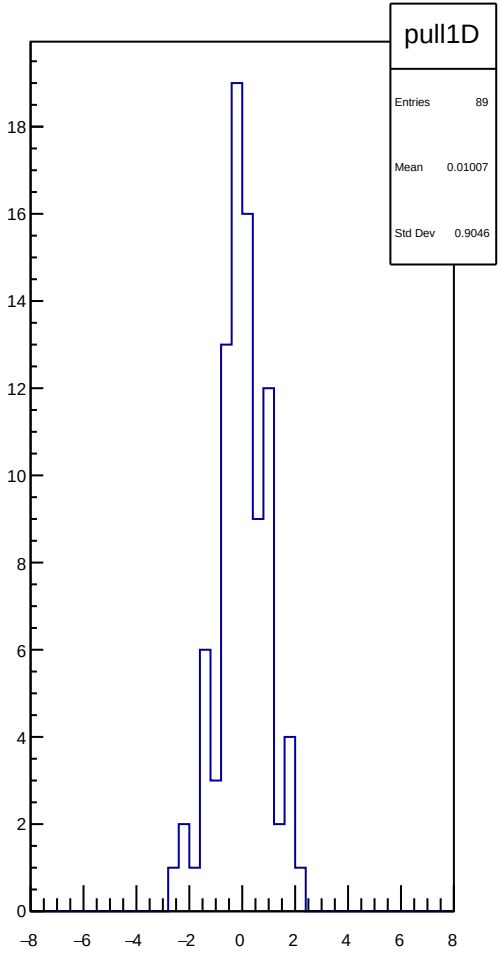

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.848e+04 / 88
p0 80.83 ± 0.06259
110
100
90
80
70
60

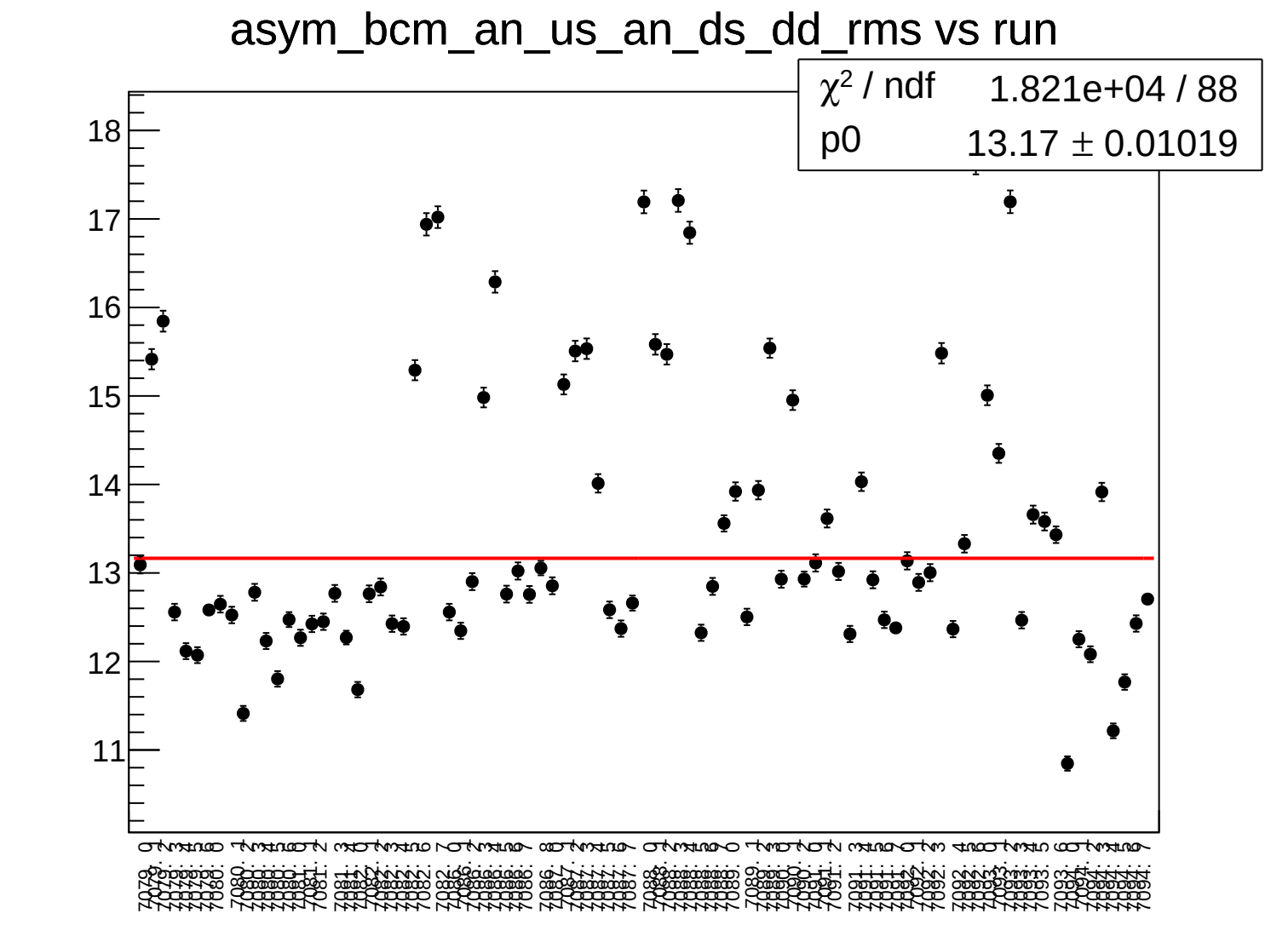

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 13.36 / 88
p0 140.4 ± 260.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −246.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

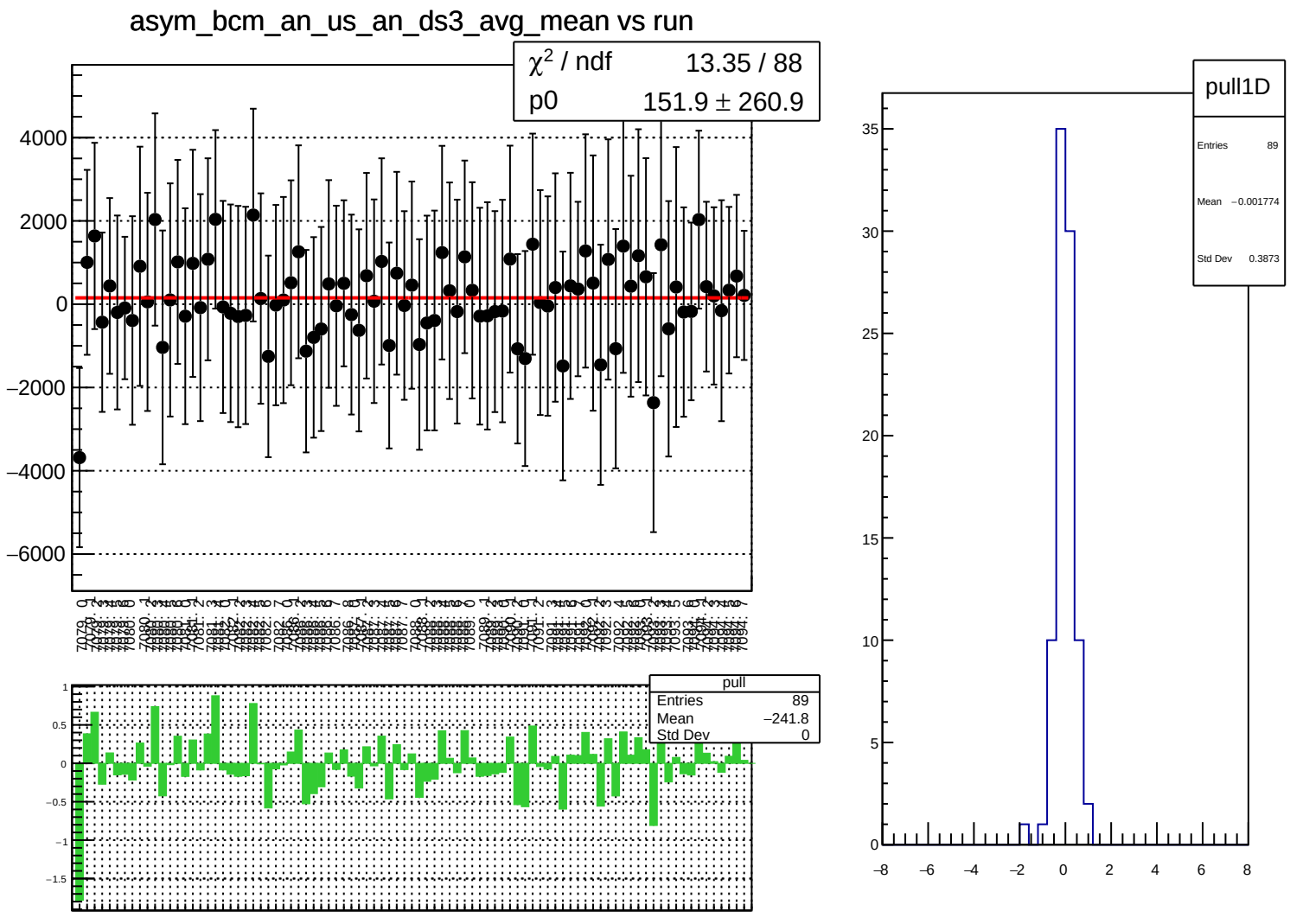

pull1D
Entries 89
Mean −0.001731
Std Dev 0.3874
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

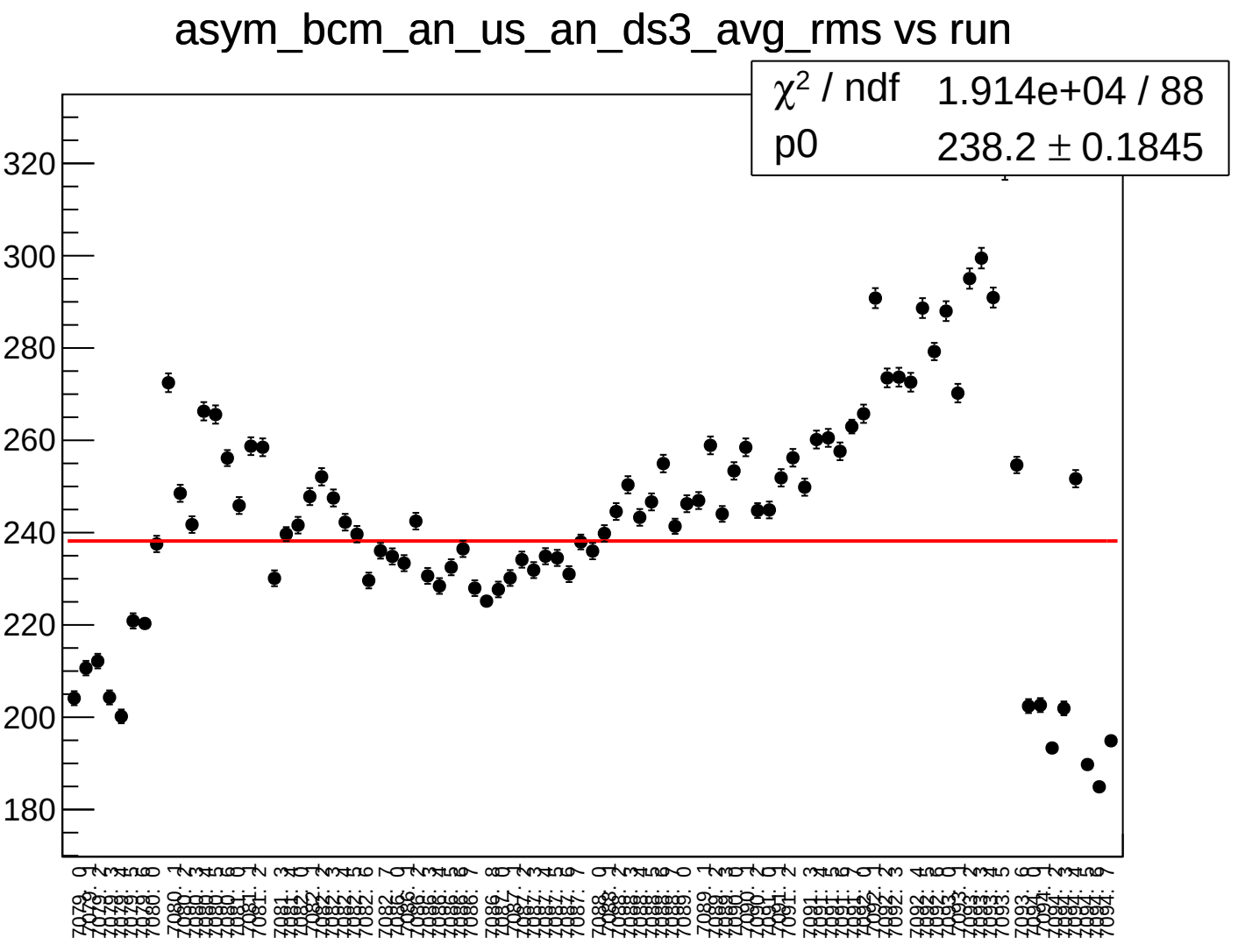

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1.913e+04 / 88
p0 237.8 ± 0.1841
320
300
280
260
240
220
200
180

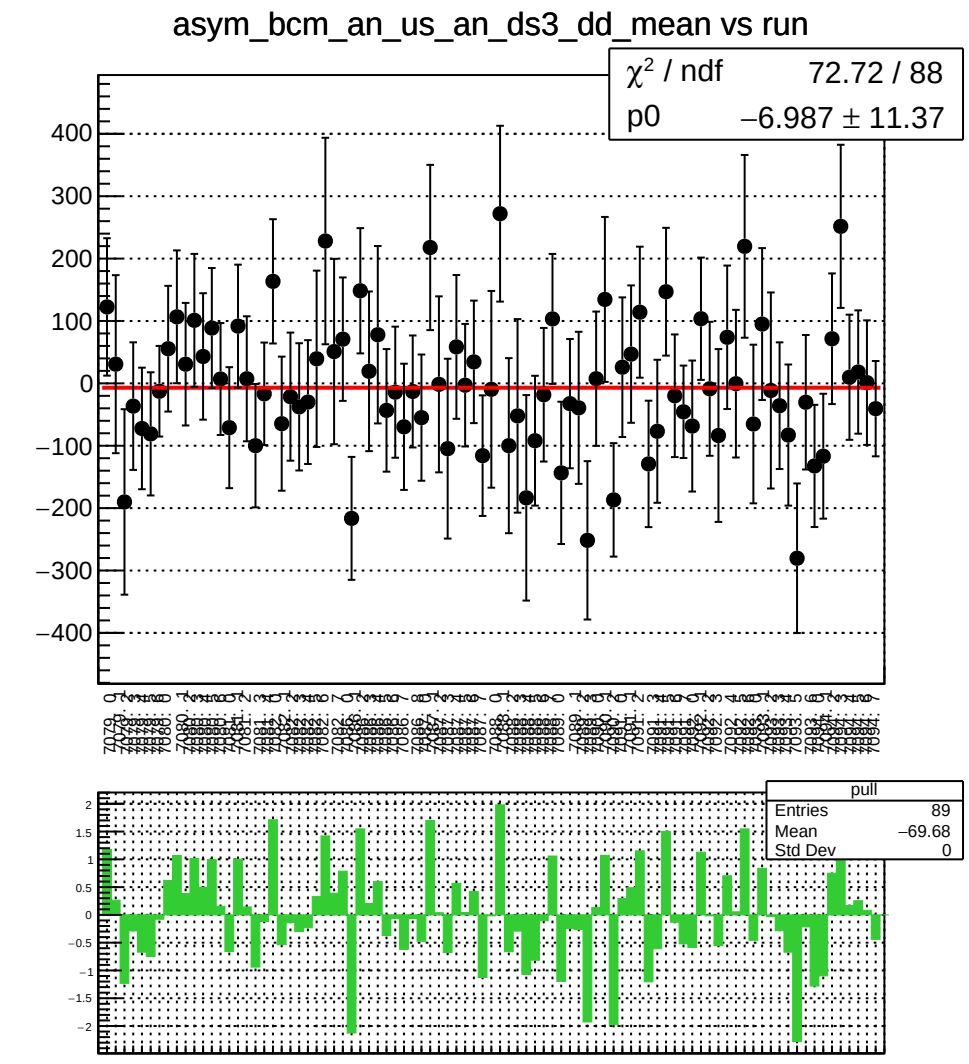

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 72.84 / 88
p0 6.213 ± 14.42
pull
Entries 89
Mean −153.1
Std Dev 0

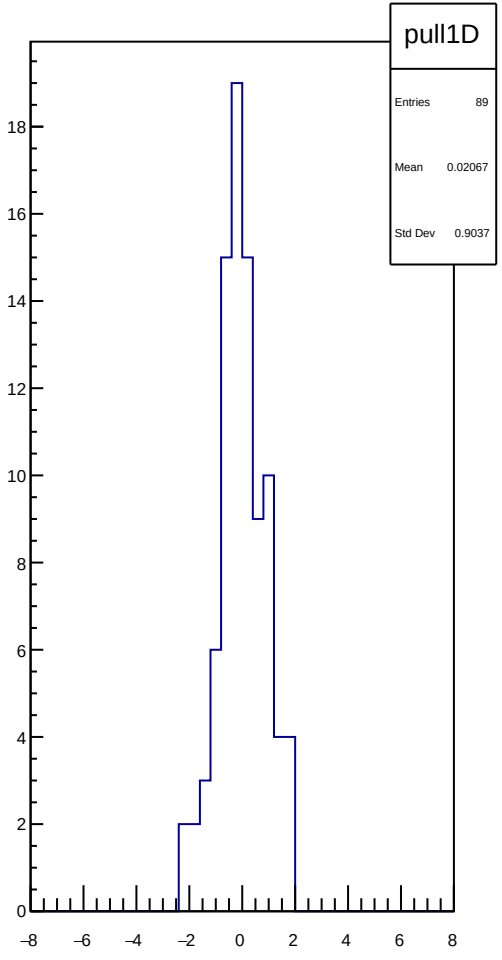

pull1D
Entries 89
Mean 0.01007
Std Dev 0.9046

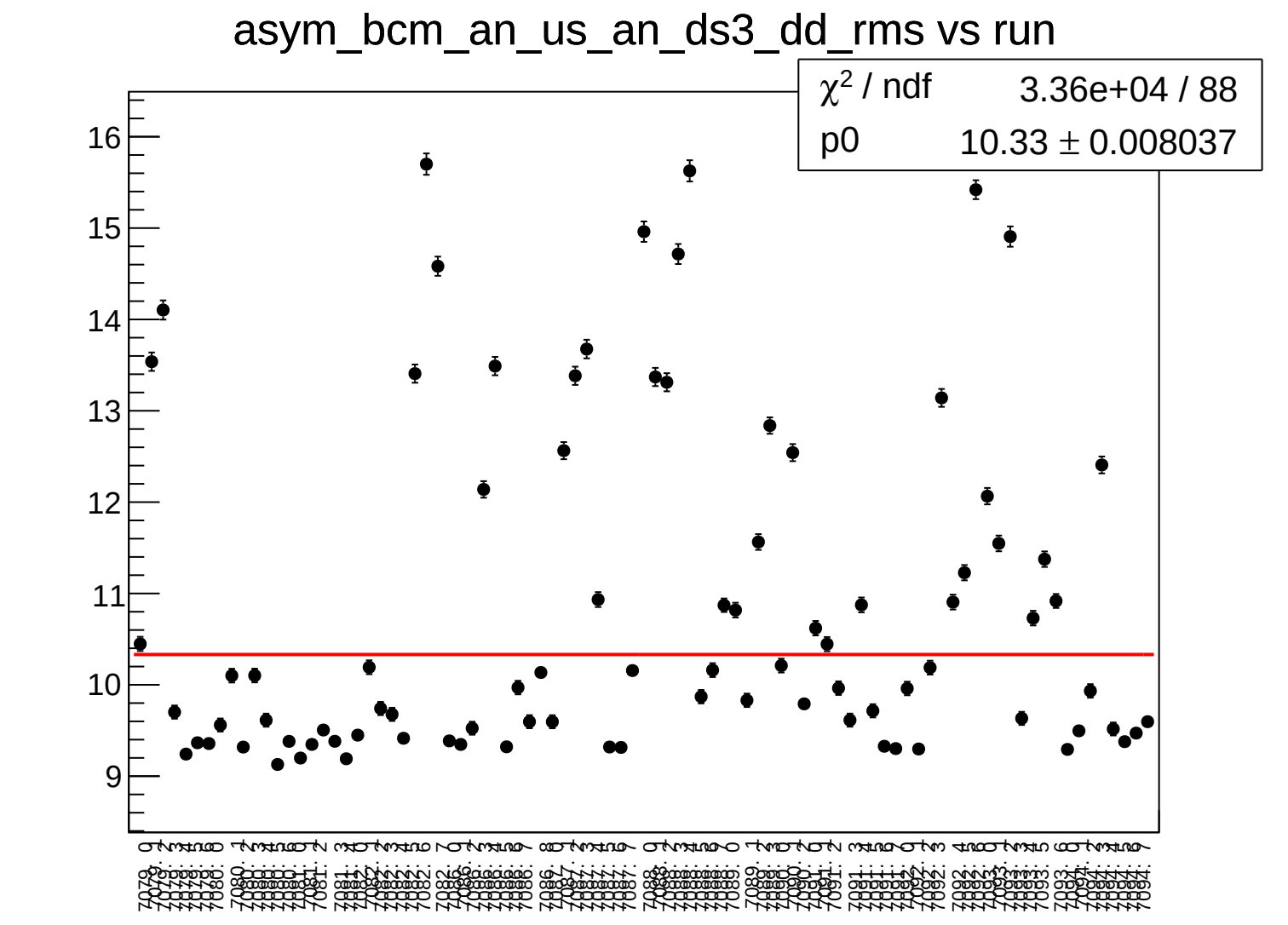

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.821e+04 / 88
p0 13.17 ± 0.01019
18
17
16
15
14
13
12
11

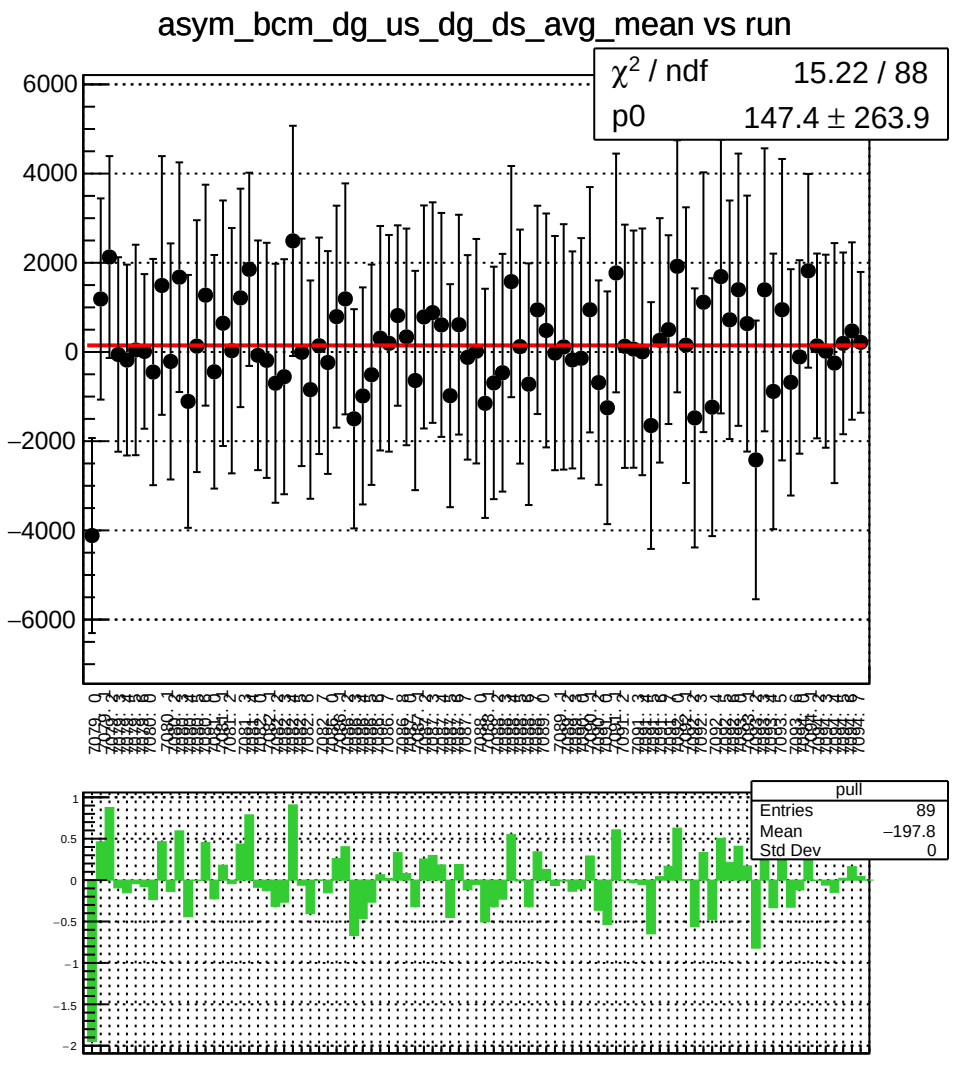

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 13.35 / 88
p0 151.9 ± 260.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −241.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.001774
Std Dev 0.3873
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

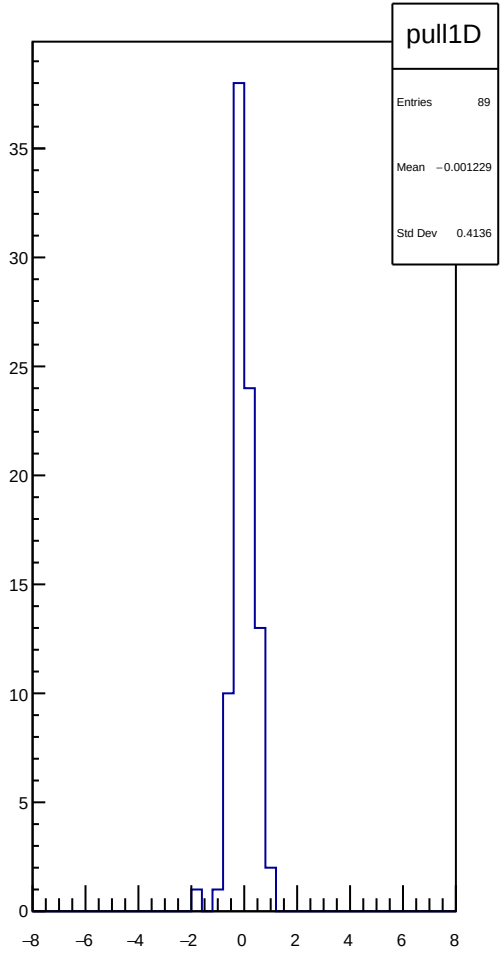

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.914e+04 / 88
p0 238.2 ± 0.1845
320
300
280
260
240
220
200
180

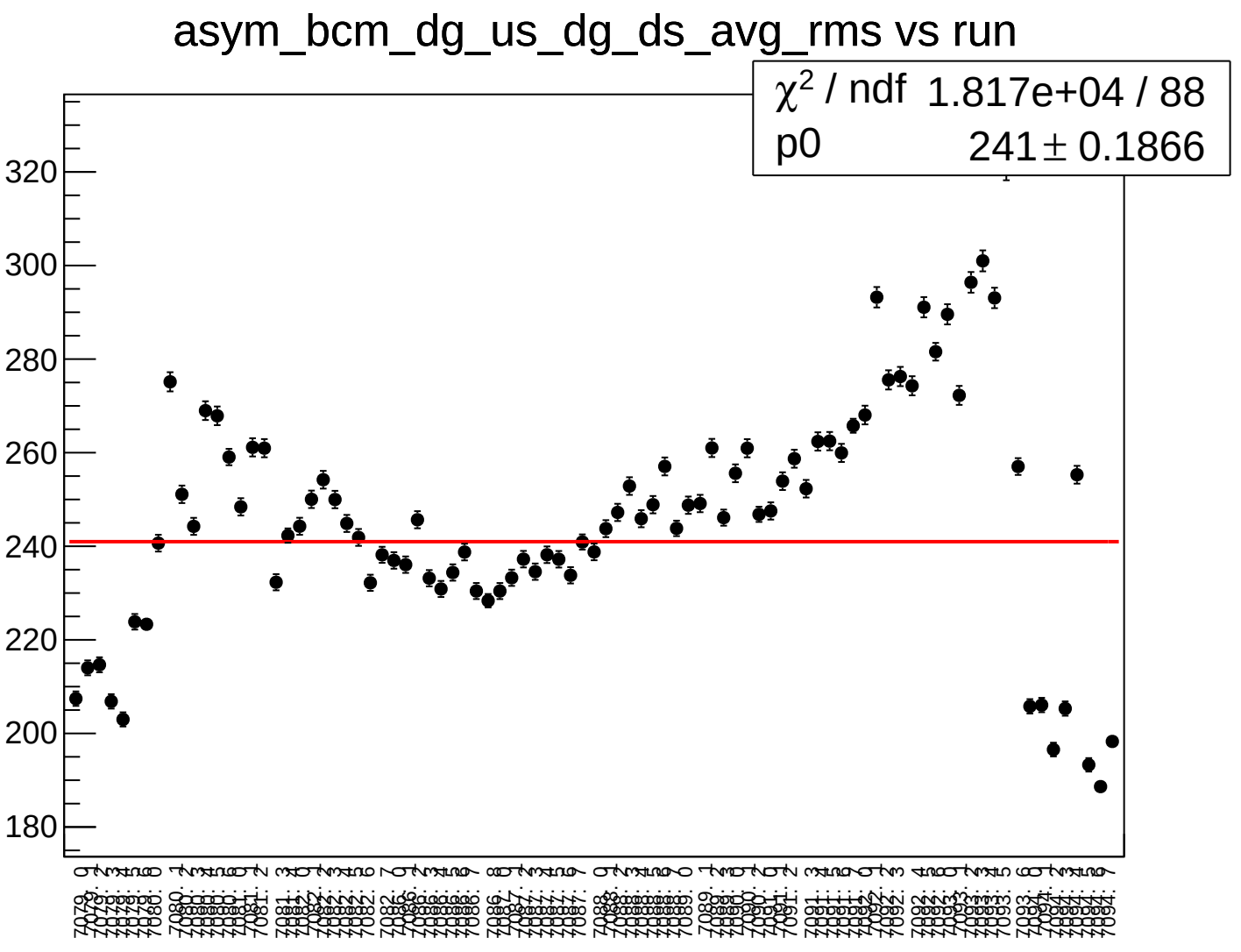

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 72.72 / 88
p0 −6.987 ± 11.37
pull
Entries 89
Mean −69.68
Std Dev 0

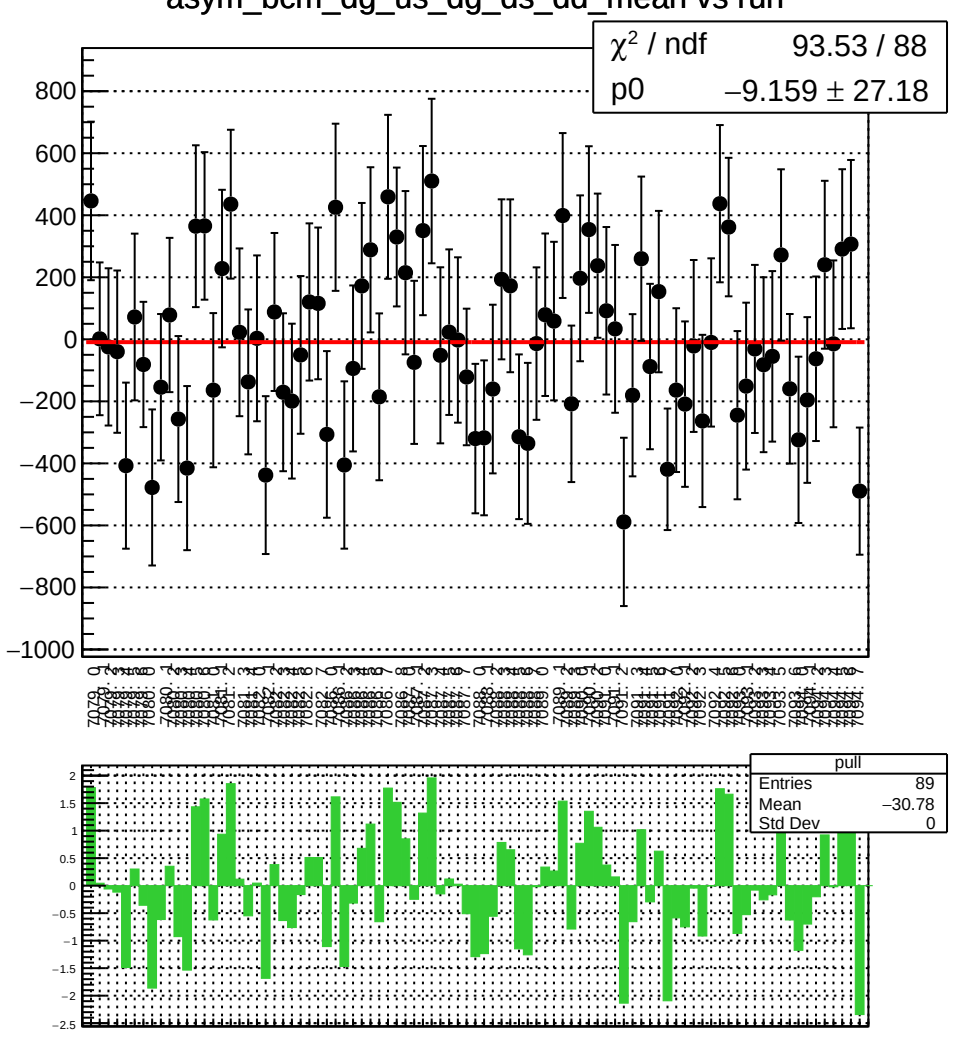

pull1D
Entries 89
Mean 0.02067
Std Dev 0.9037

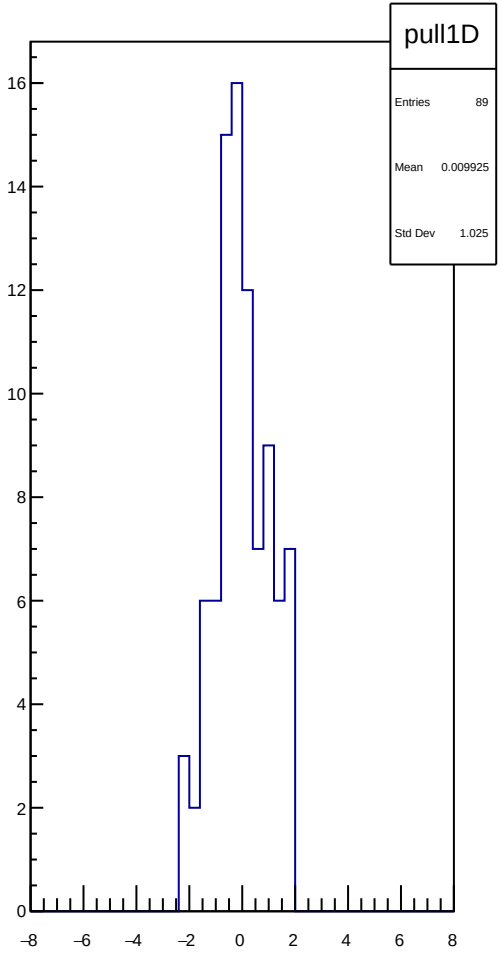

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 3.36e+04 / 88
p0 10.33 ± 0.008037
16
15
14
13
12
11
10
9

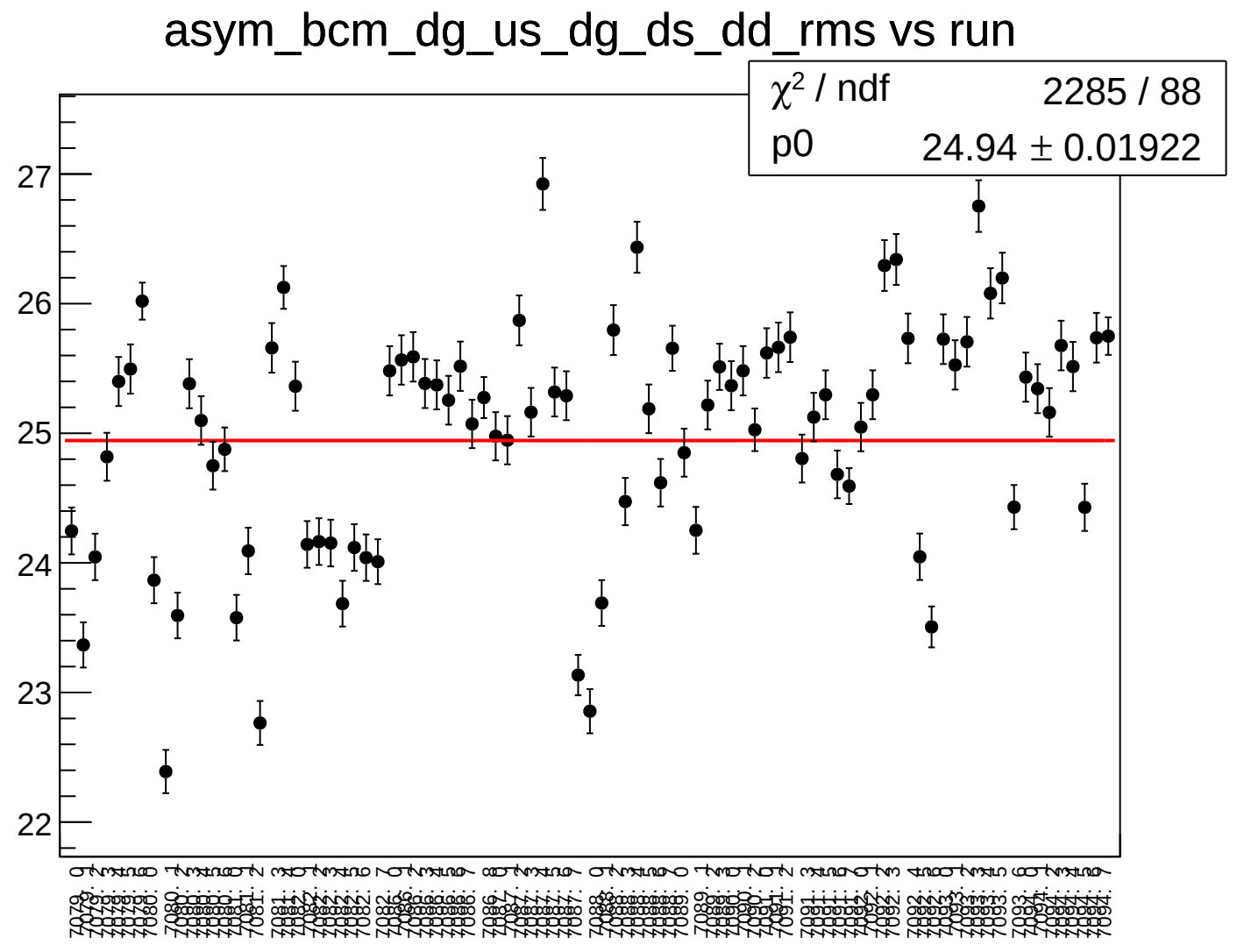

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 15.22 / 88
p0 147.4 ± 263.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −197.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

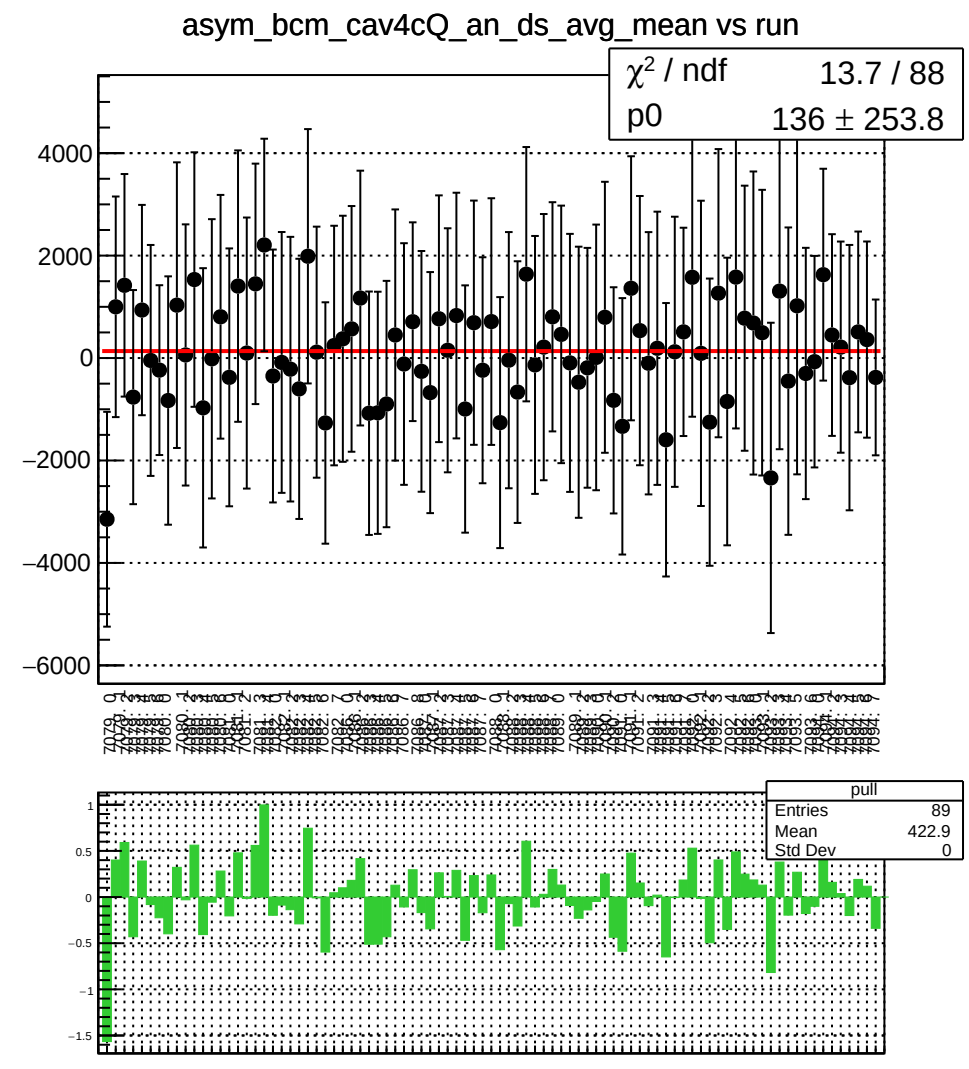

pull1D
Entries 89
Mean −0.001229
Std Dev 0.4136
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

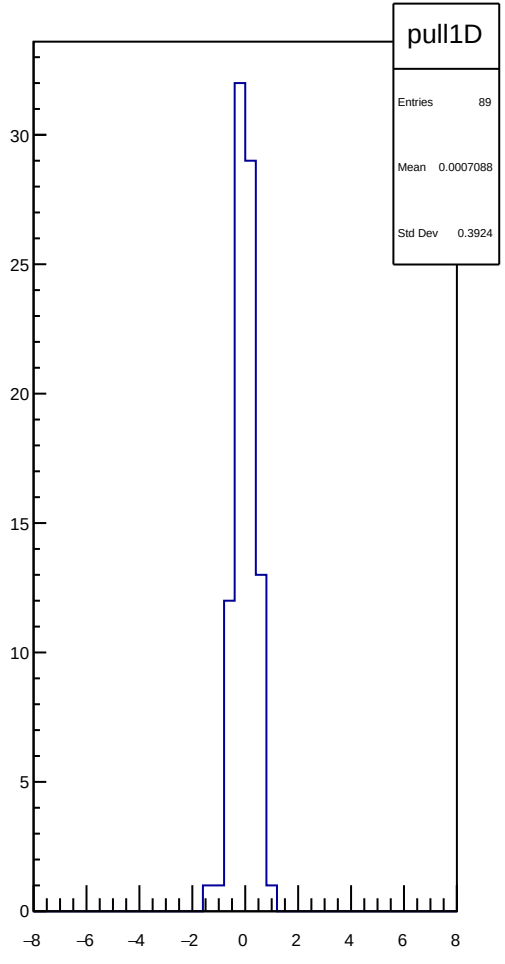

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.817e+04 / 88
p0 241 ± 0.1866
320
300
280
260
240
220
200
180

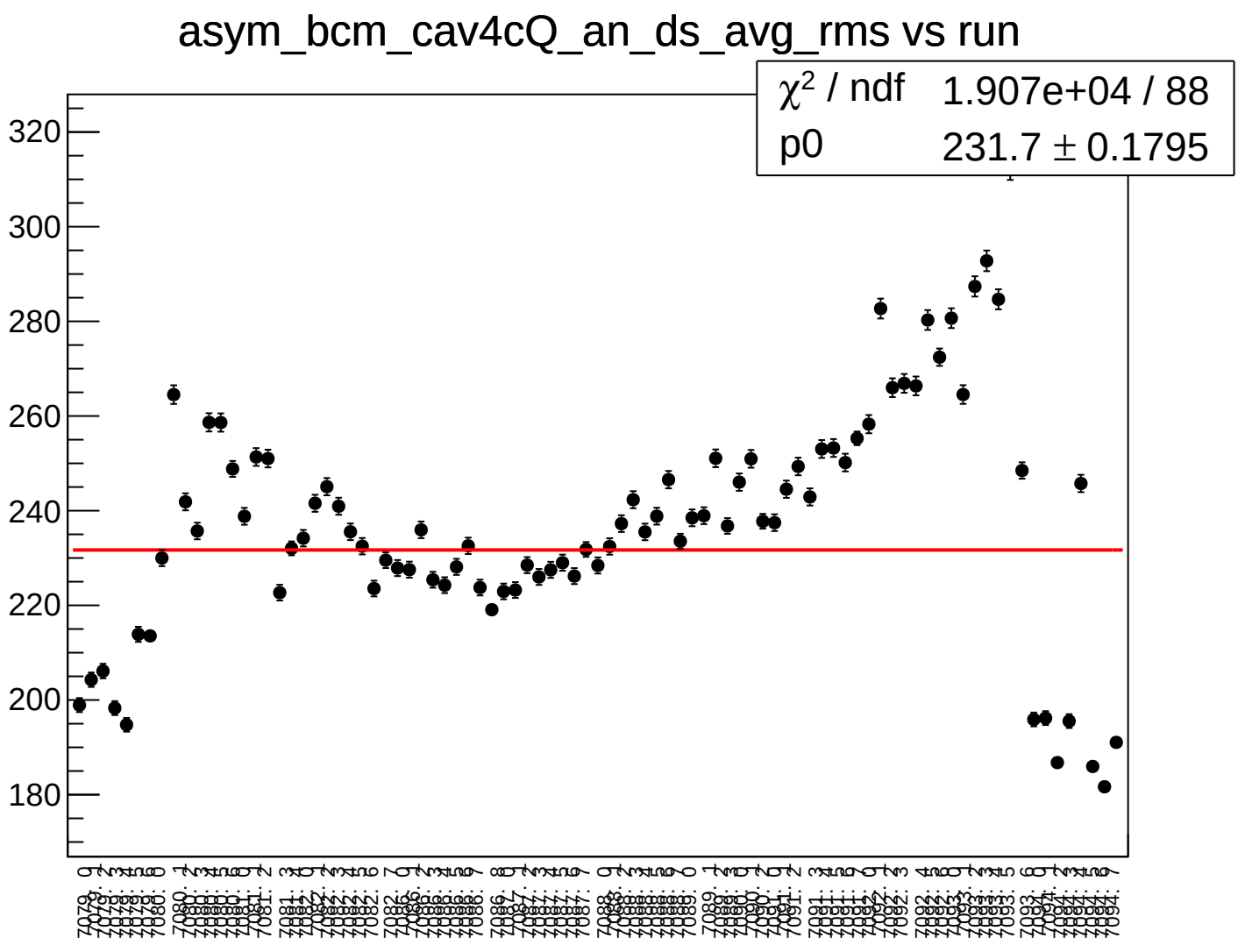

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 93.53 / 88
p0 −9.159 ± 27.18
pull
Entries 89
Mean −30.78
Std Dev 0

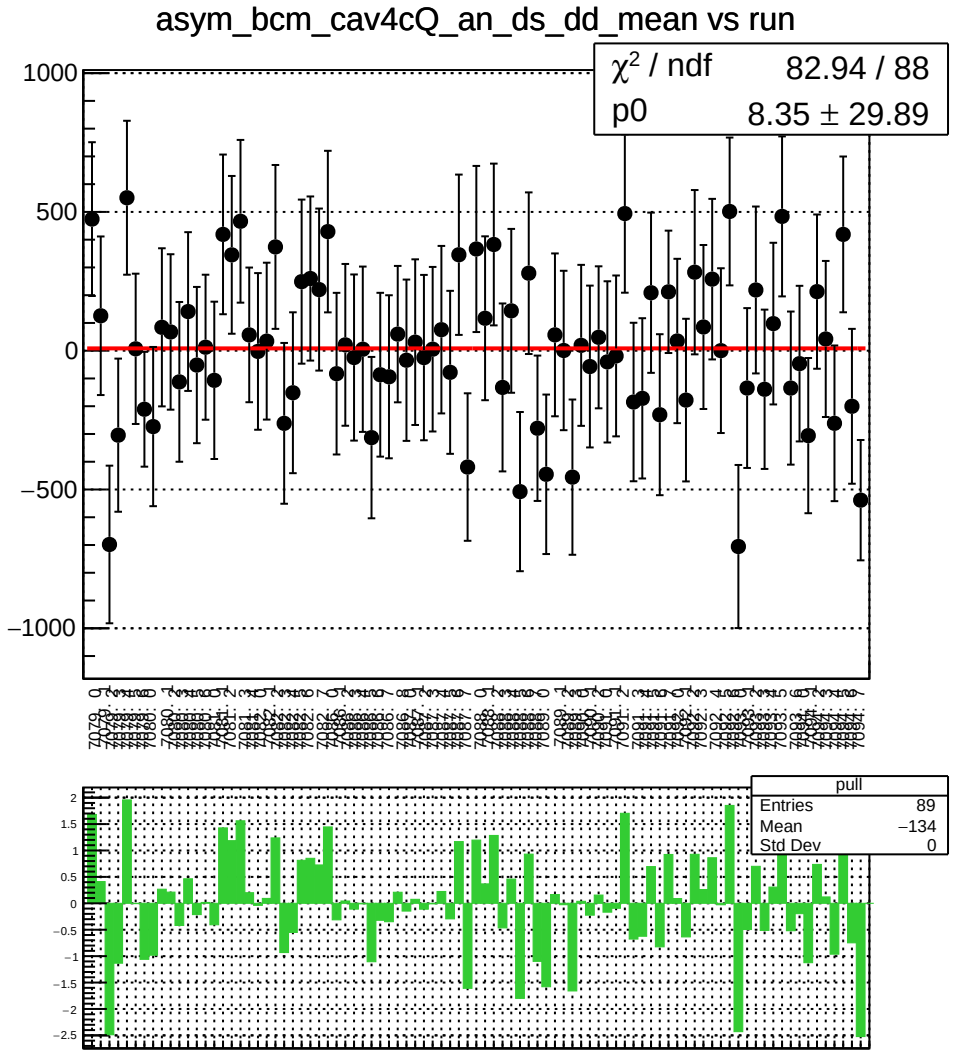

pull1D
Entries 89
Mean 0.009925
Std Dev 1.025

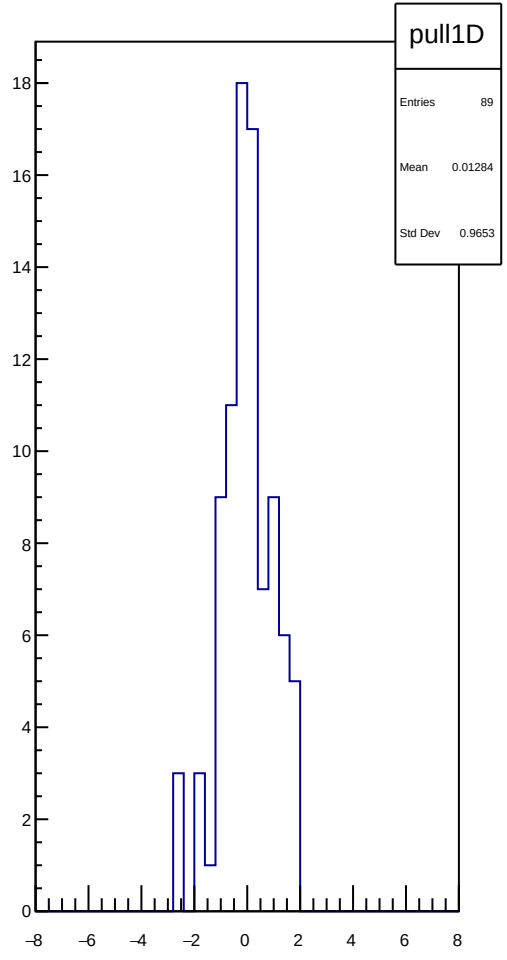

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2285 / 88
p0 24.94 ± 0.01922
27
26
25
24
23
22

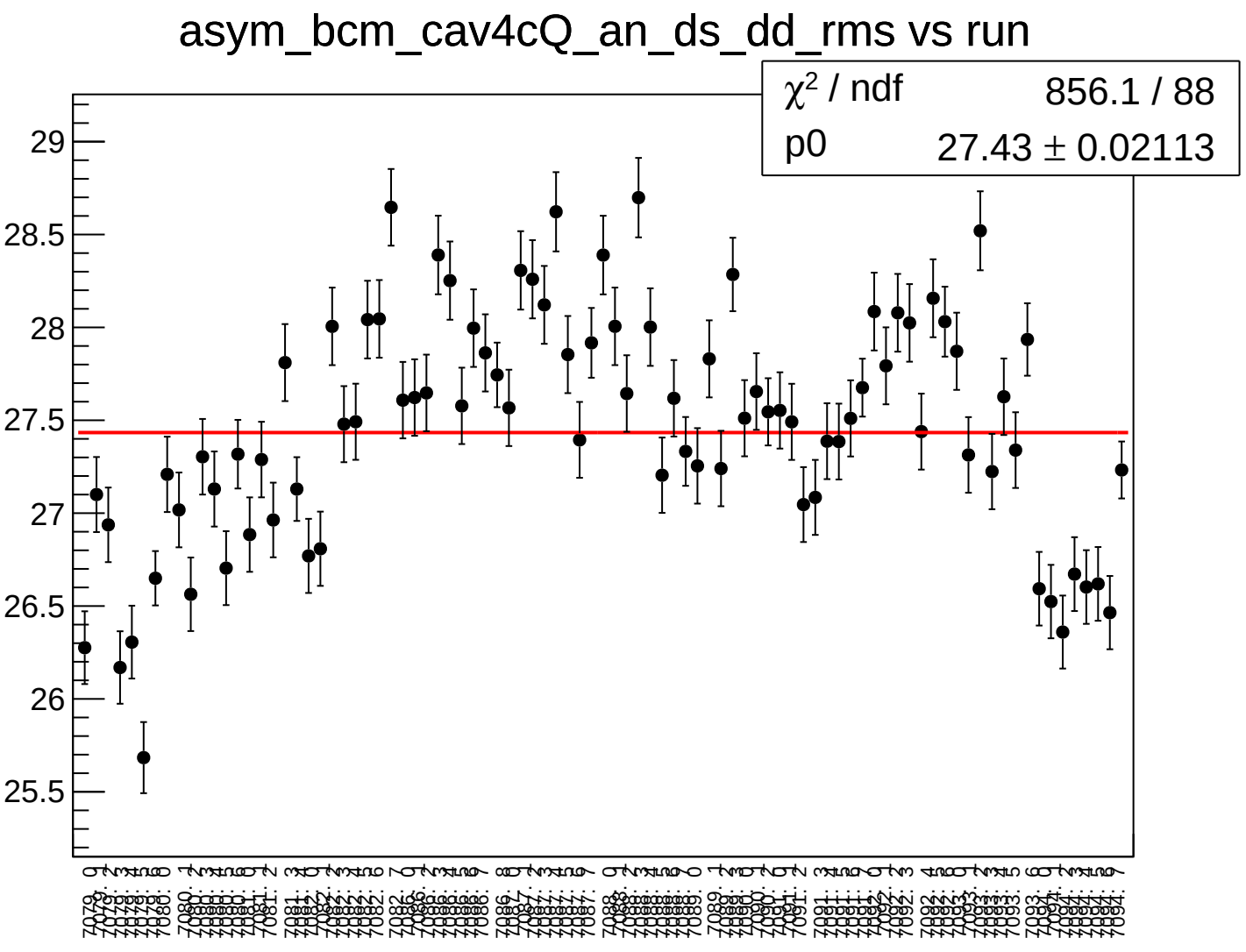

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 13.7 / 88
p0 136 ± 253.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 422.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

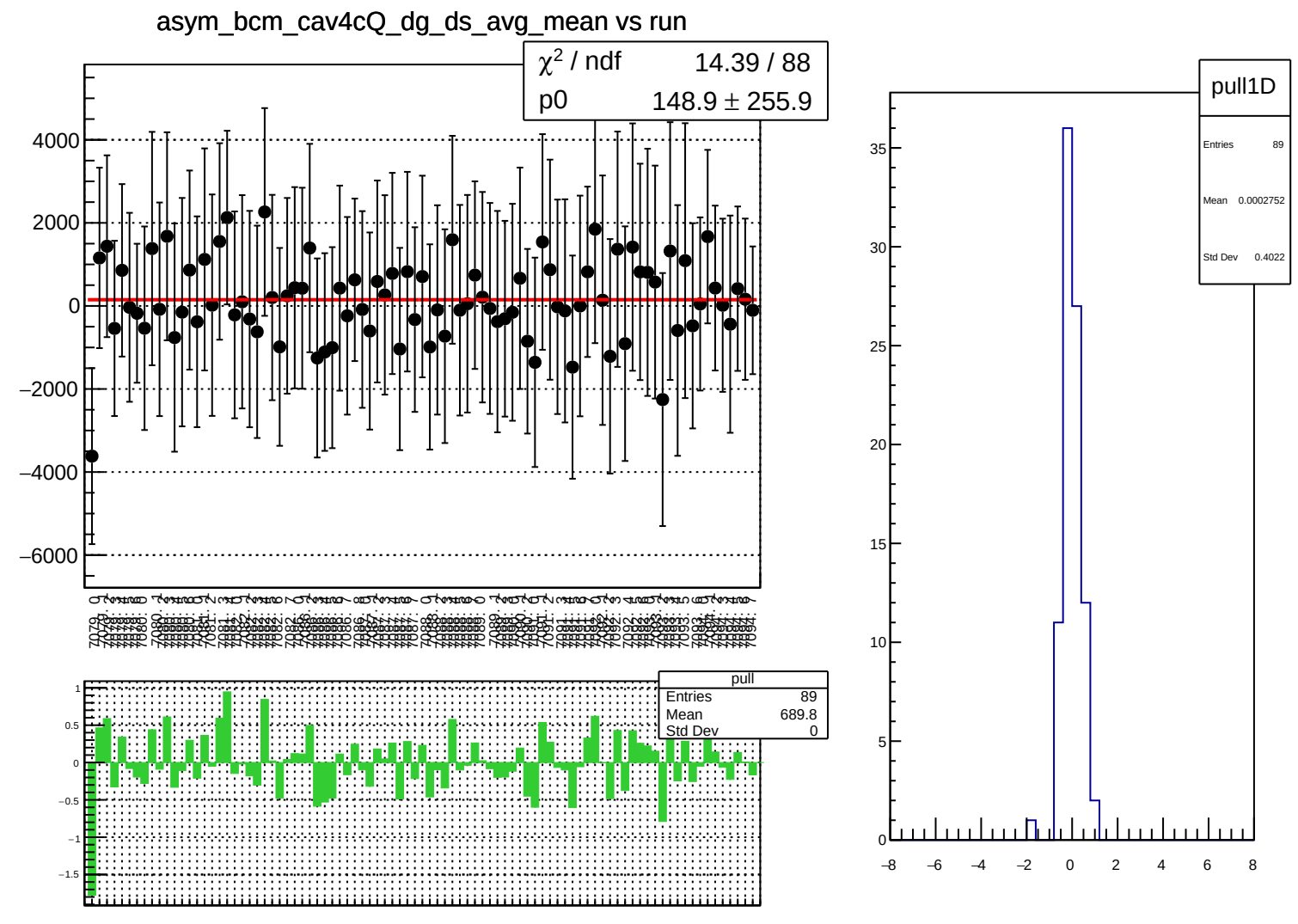

pull1D
Entries 89
Mean 0.0007088
Std Dev 0.3924
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

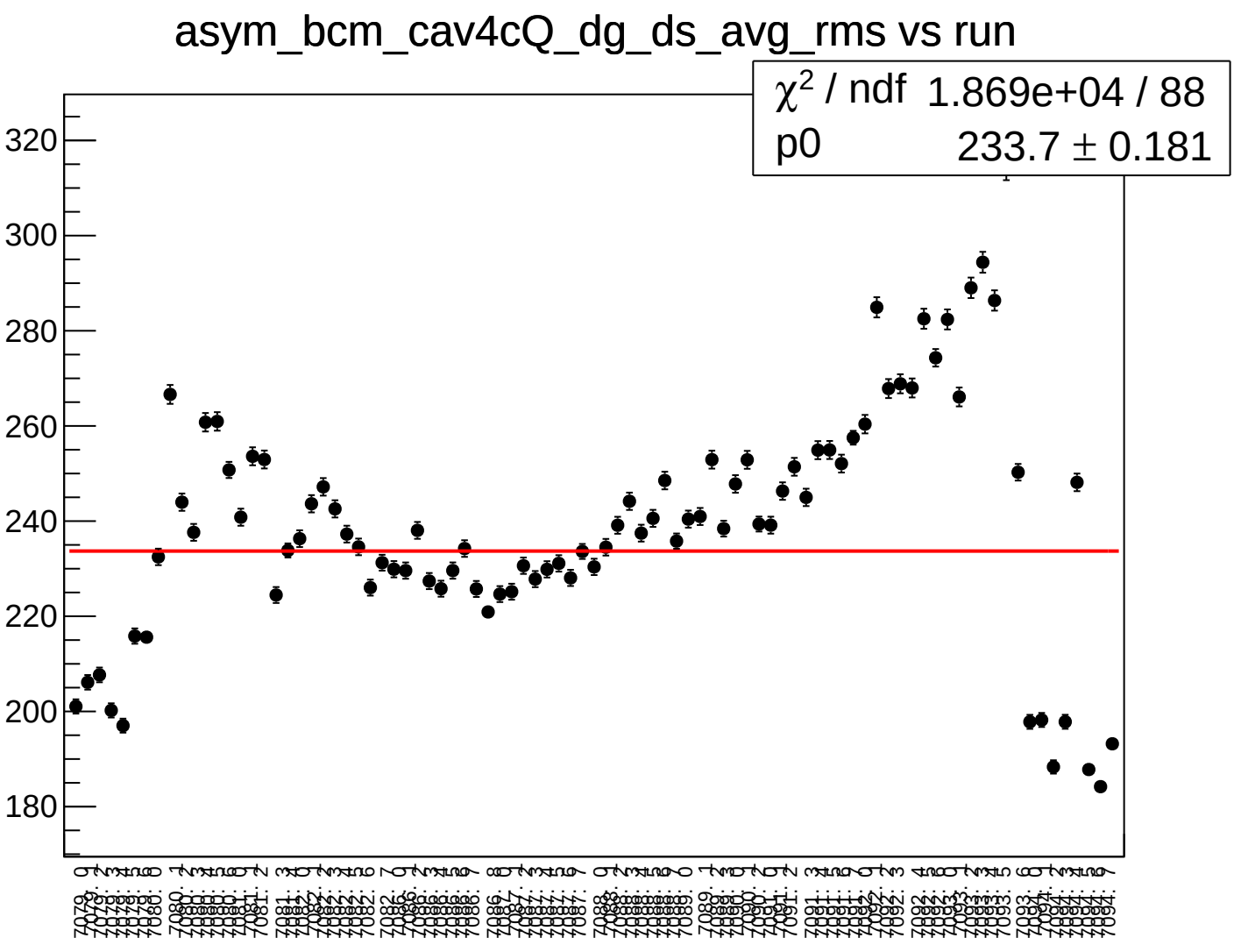

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.907e+04 / 88
p0 231.7 ± 0.1795
320
300
280
260
240
220
200
180

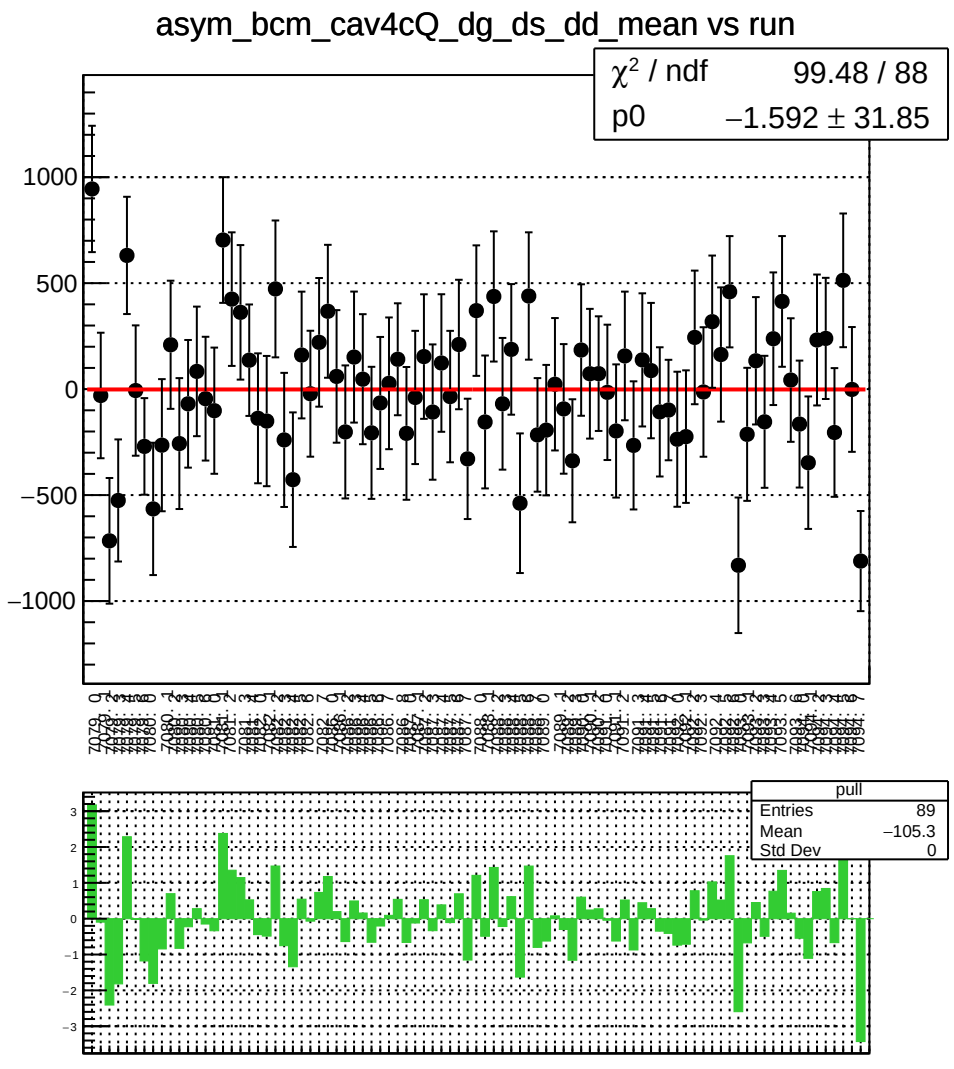

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 82.94 / 88
p0 8.35 ± 29.89
1000
500
0
−500
−1000
pull
Entries 89
Mean −134
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

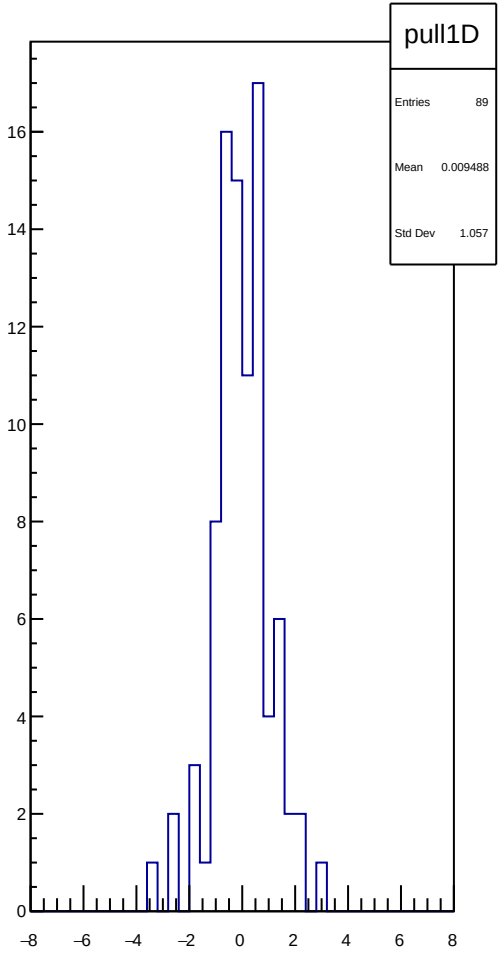

pull1D
Entries 89
Mean 0.01284
Std Dev 0.9653
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

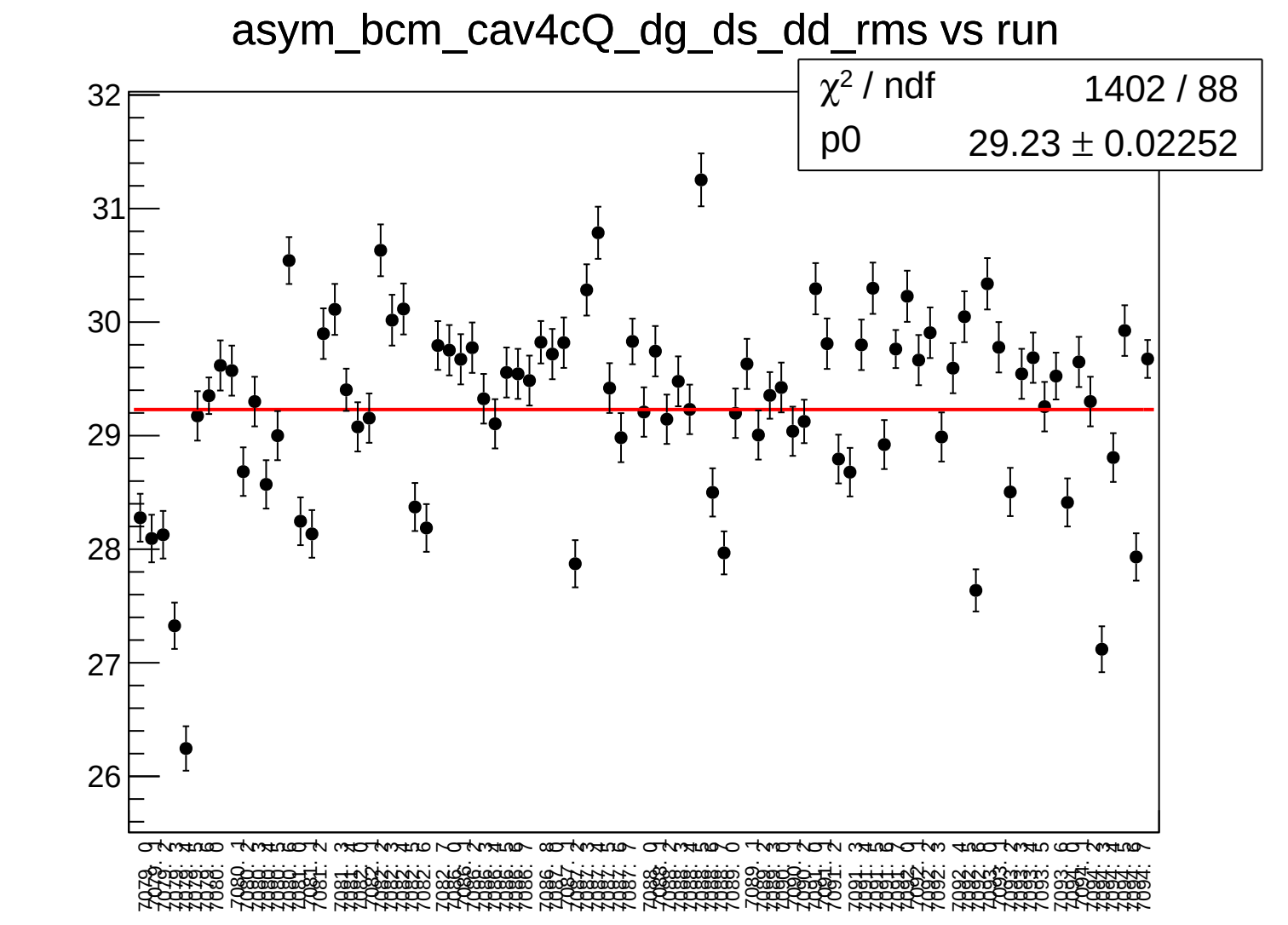

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 856.1 / 88
p0 27.43 ± 0.02113
29
28.5
28
27.5
27
26.5
26
25.5

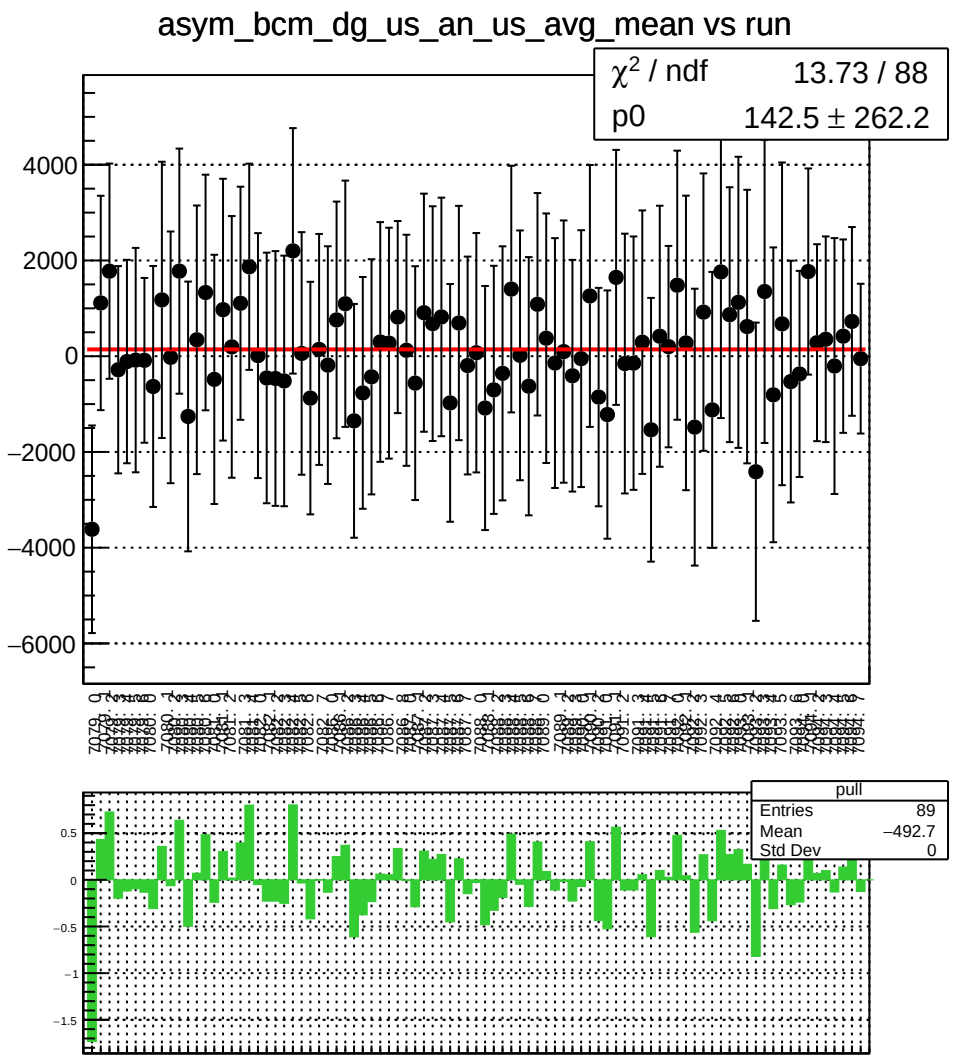

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 14.39 / 88
p0 148.9 ± 255.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 689.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.0002752
Std Dev 0.4022
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

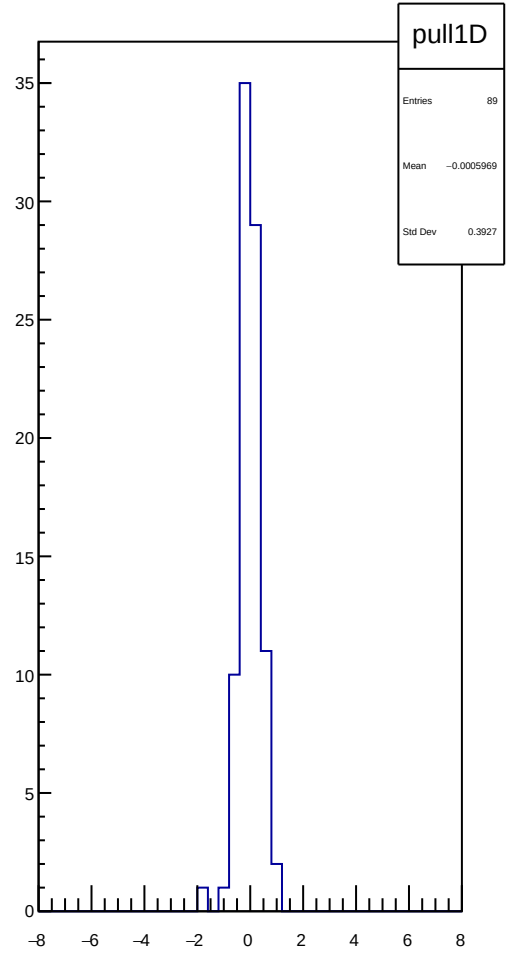

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.869e+04 / 88
p0 233.7 ± 0.181
320
300
280
260
240
220
200
180

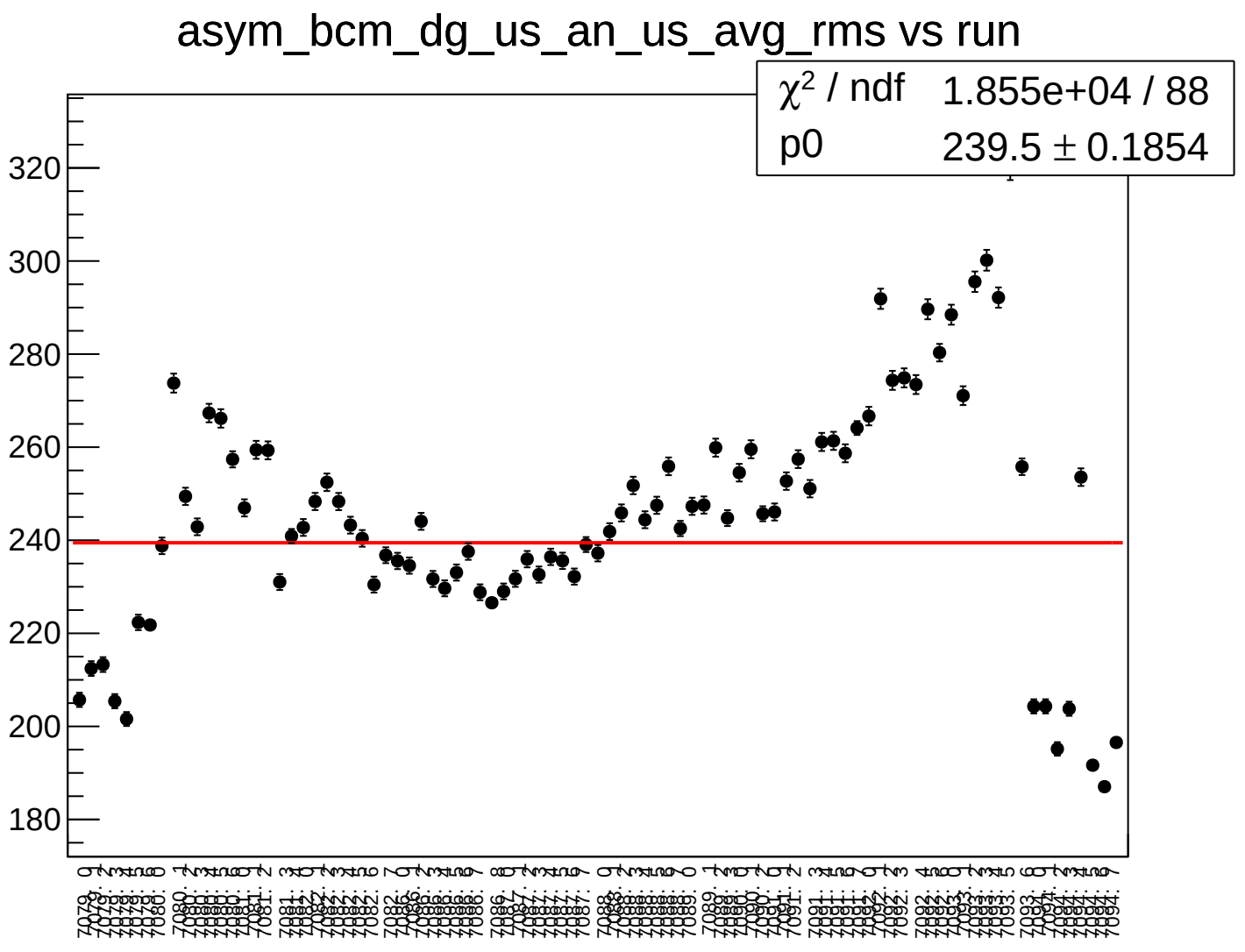

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 99.48 / 88
p0 −1.592 ± 31.85
1000
500
0
−500
−1000
pull
Entries 89
Mean −105.3
Std Dev 0
3
2
1
0
−1
−2
−3

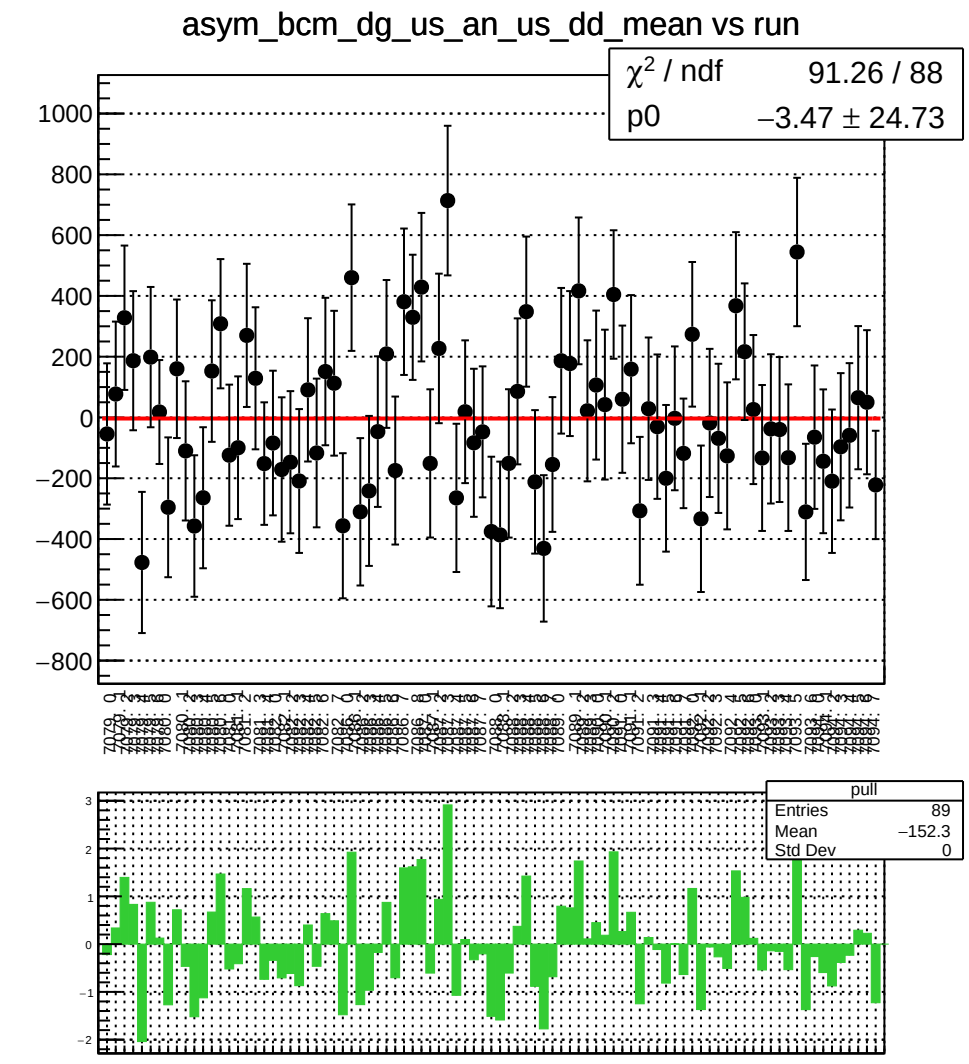

pull1D
Entries 89
Mean 0.009488
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

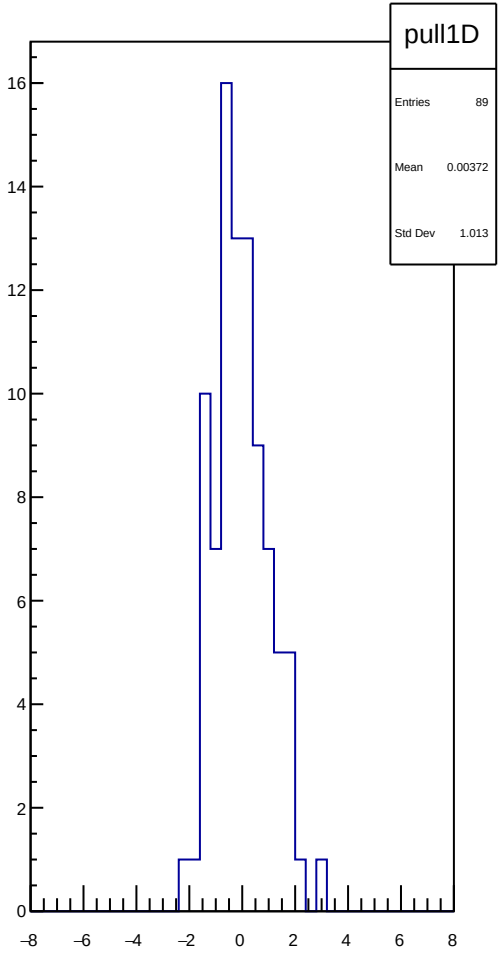

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 1402 / 88
p0 29.23 ± 0.02252
32
31
30
29
28
27
26

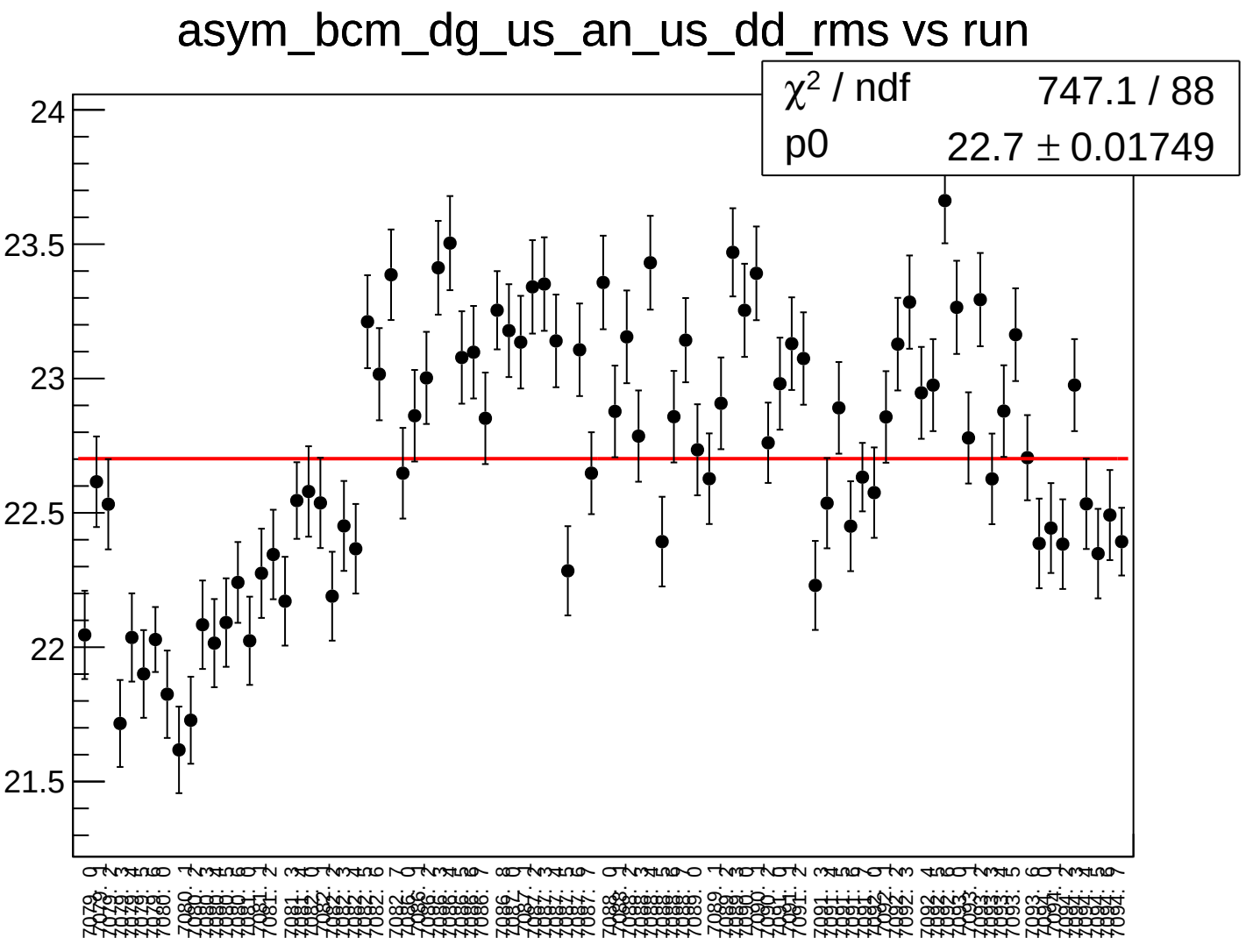

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 13.73 / 88
p0 142.5 ± 262.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −492.7
Std Dev 0
0.5
0
−0.5
−1
−1.5

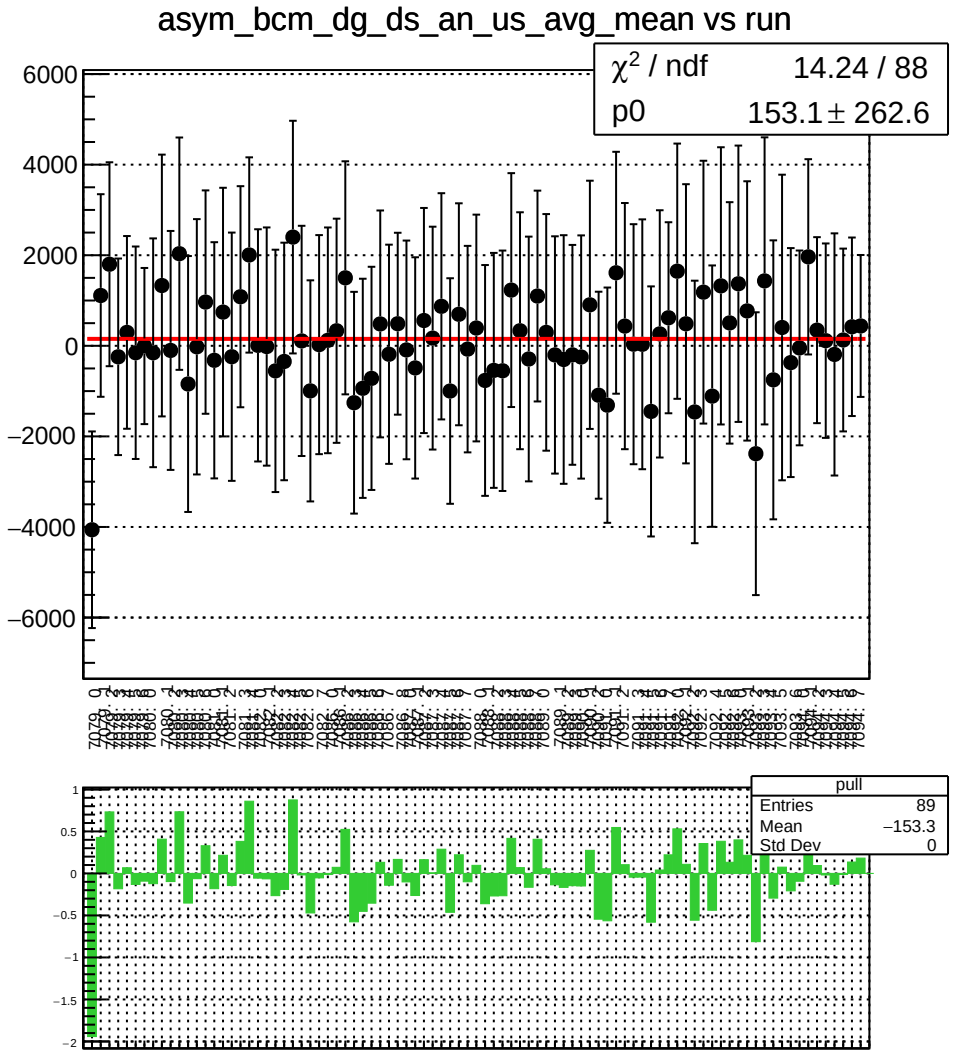

pull1D
Entries 89
Mean −0.0005969
Std Dev 0.3927
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

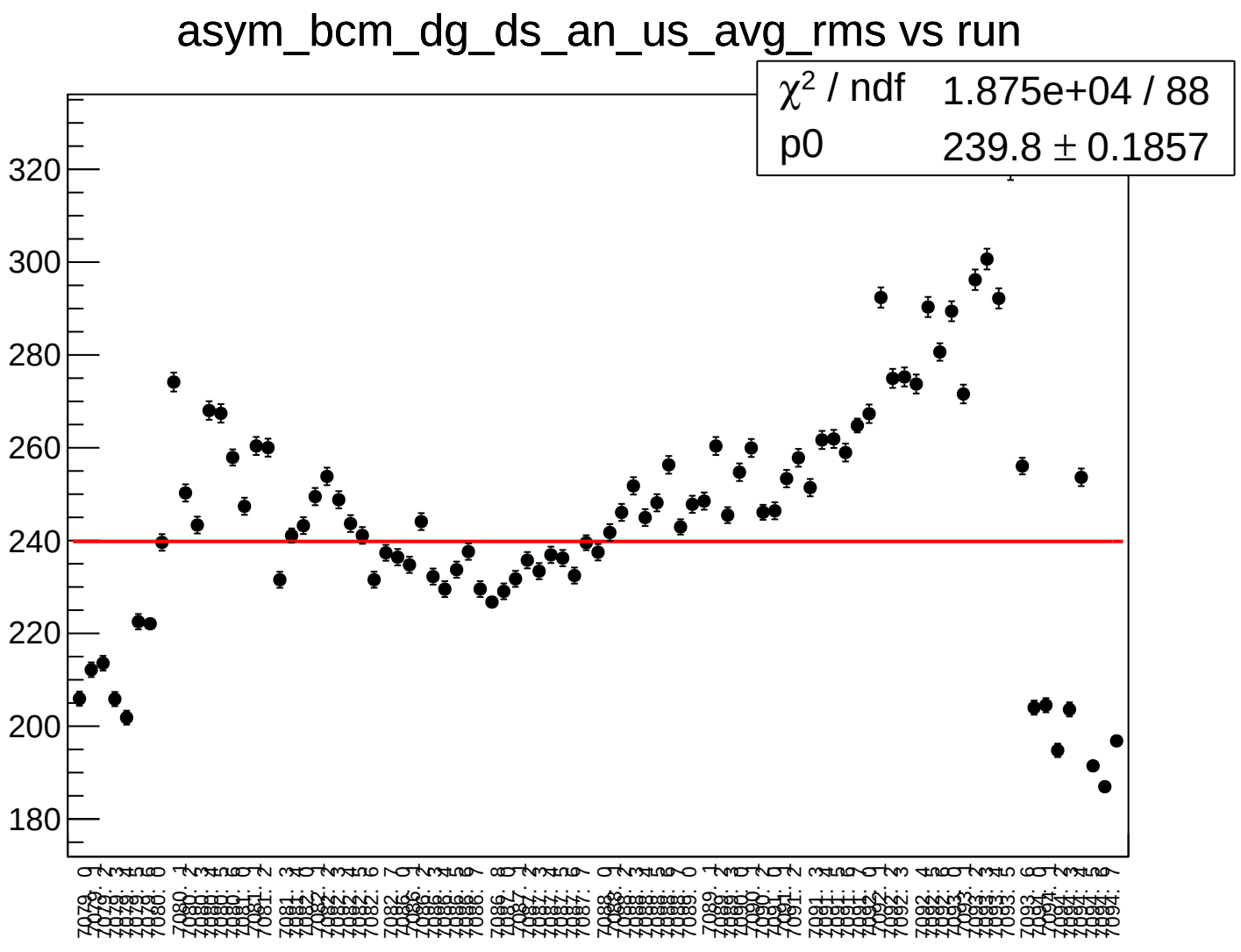

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.855e+04 / 88
p0 239.5 ± 0.1854
320
300
280
260
240
220
200
180

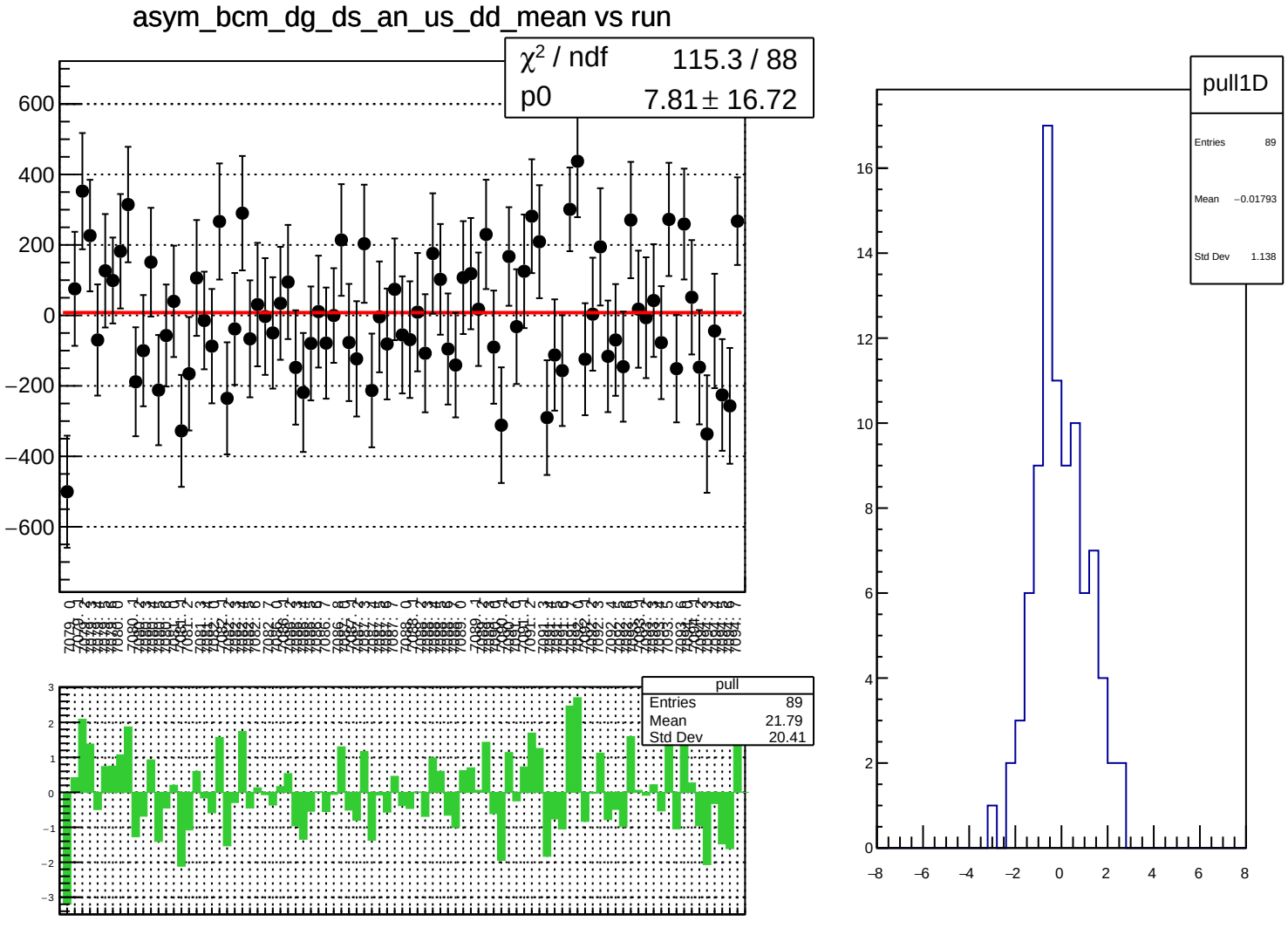

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 91.26 / 88
p0 −3.47 ± 24.73
pull
Entries 89
Mean −152.3
Std Dev 0

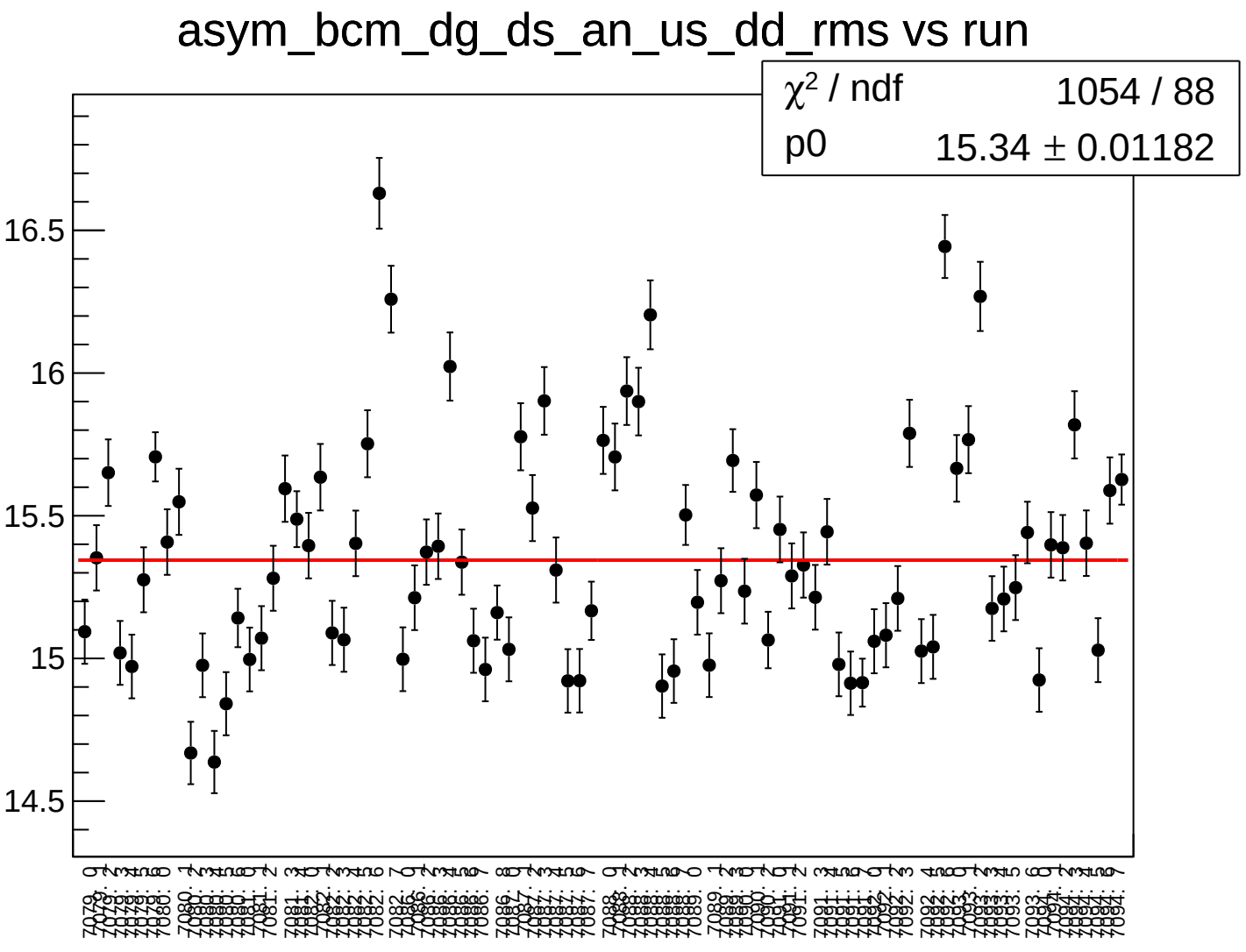

pull1D
Entries 89
Mean 0.00372
Std Dev 1.013

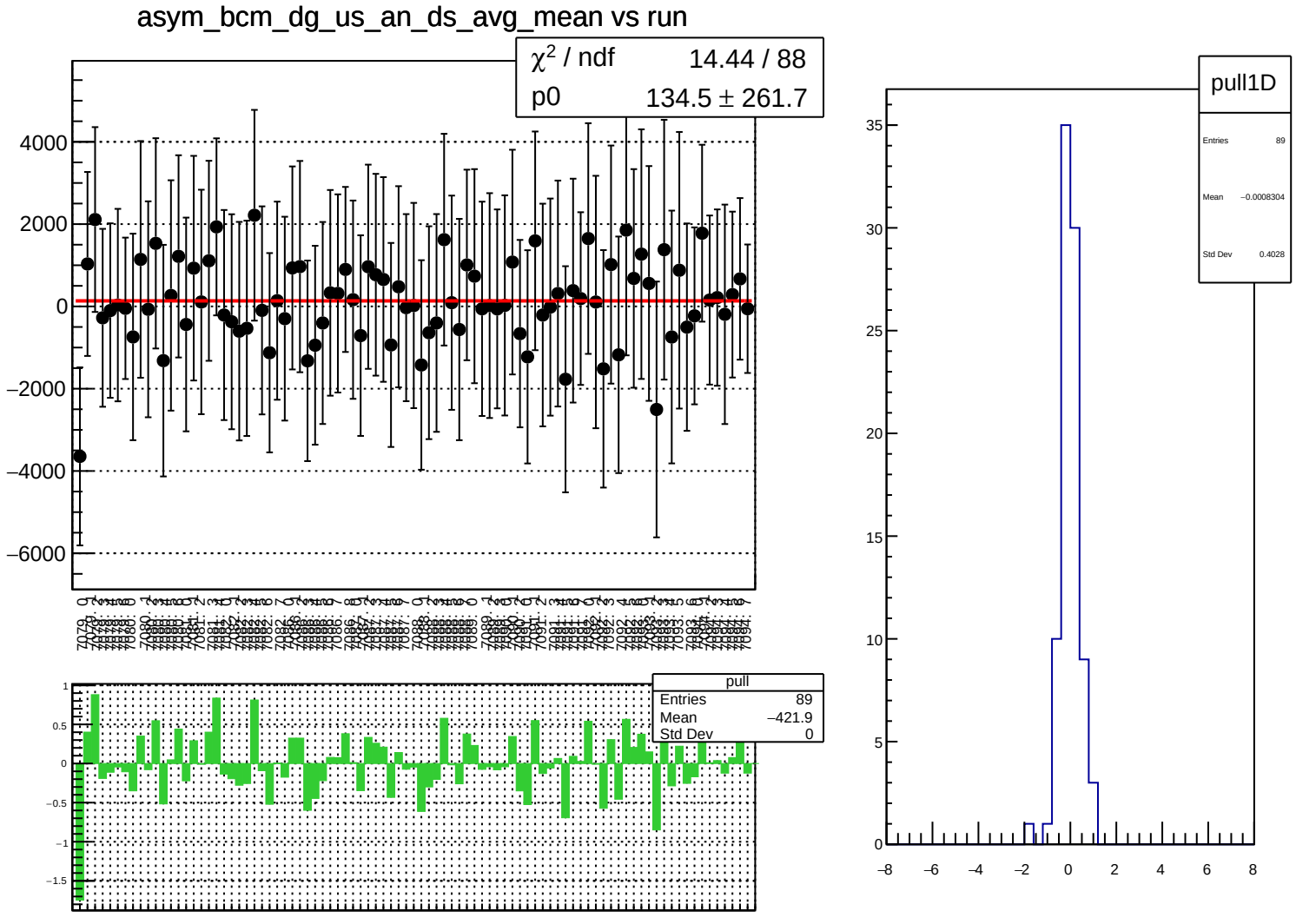

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 747.1 / 88
p0 22.7 ± 0.01749
24
23.5
23
22.5
22
21.5

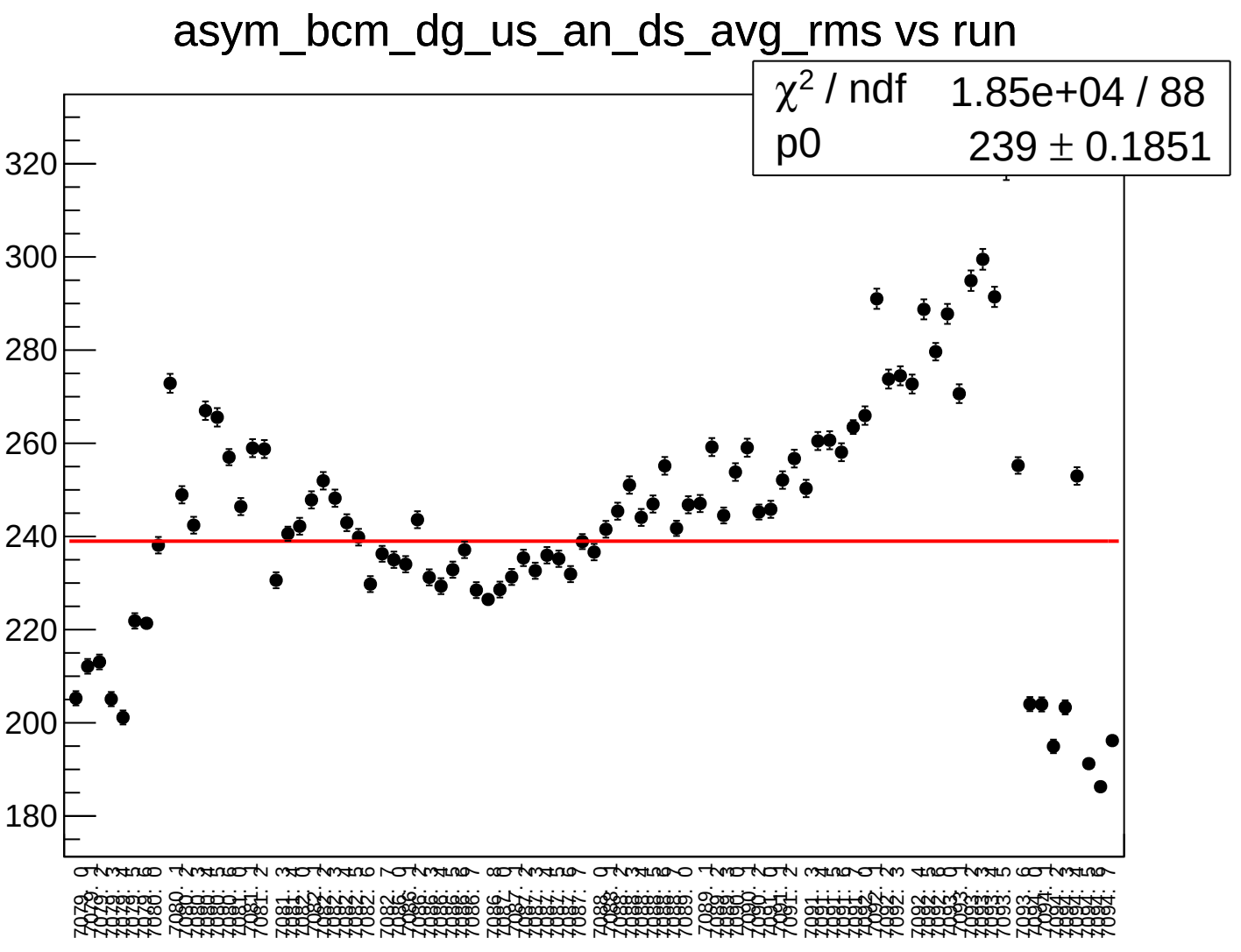

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 14.24 / 88
p0 153.1 ± 262.6
pull
Entries 89
Mean −153.3
Std Dev 0
pull1D
Entries 89
Mean −0.002081
Std Dev 0.4001

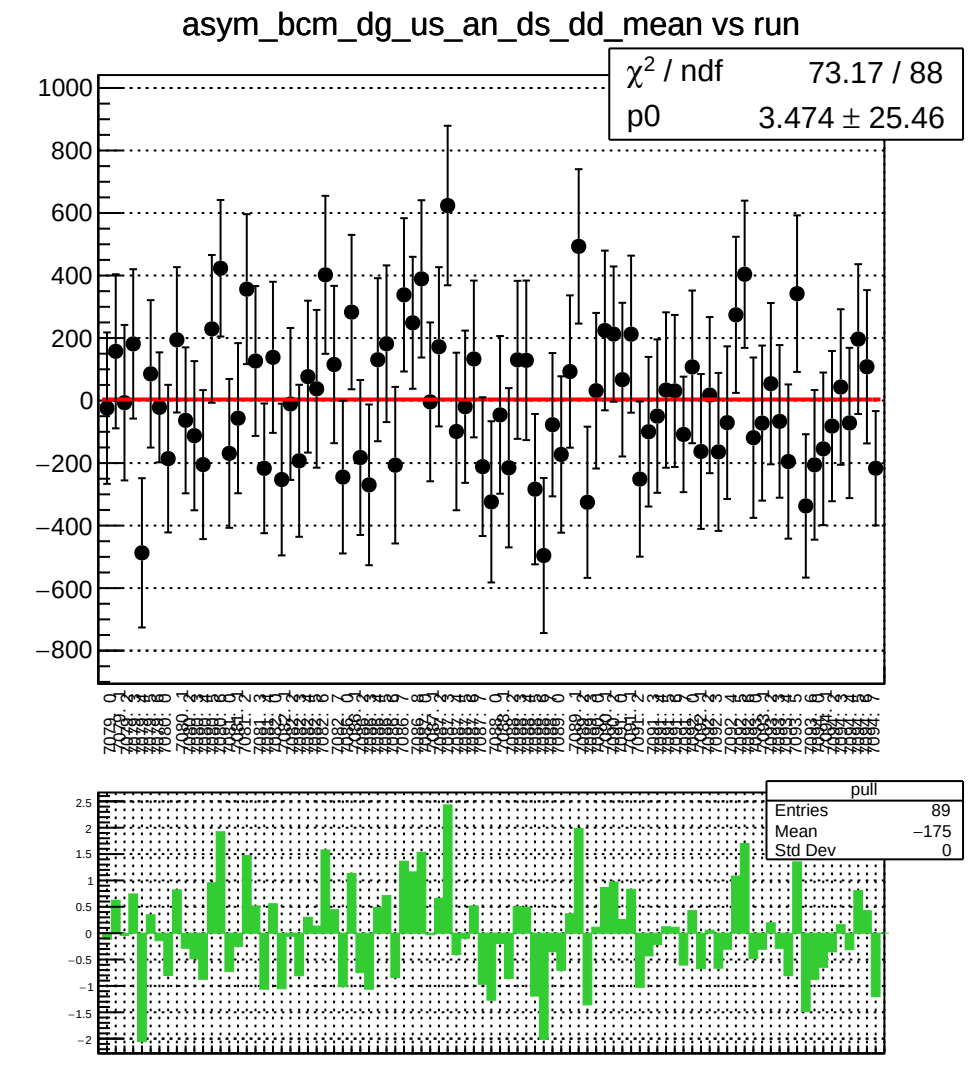

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.875e+04 / 88
p0 239.8 ± 0.1857
320
300
280
260
240
220
200
180

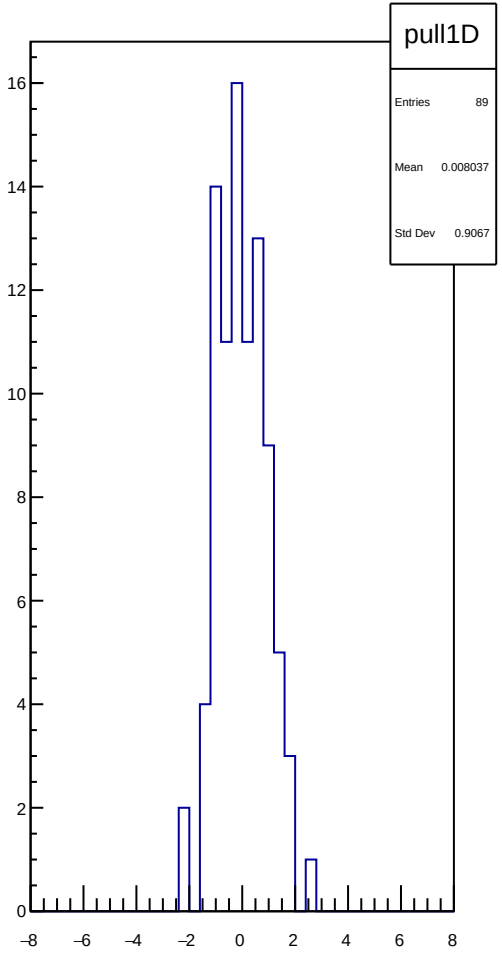

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 115.3 / 88
p0 7.81 ± 16.72
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean 21.79
Std Dev 20.41
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01793
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

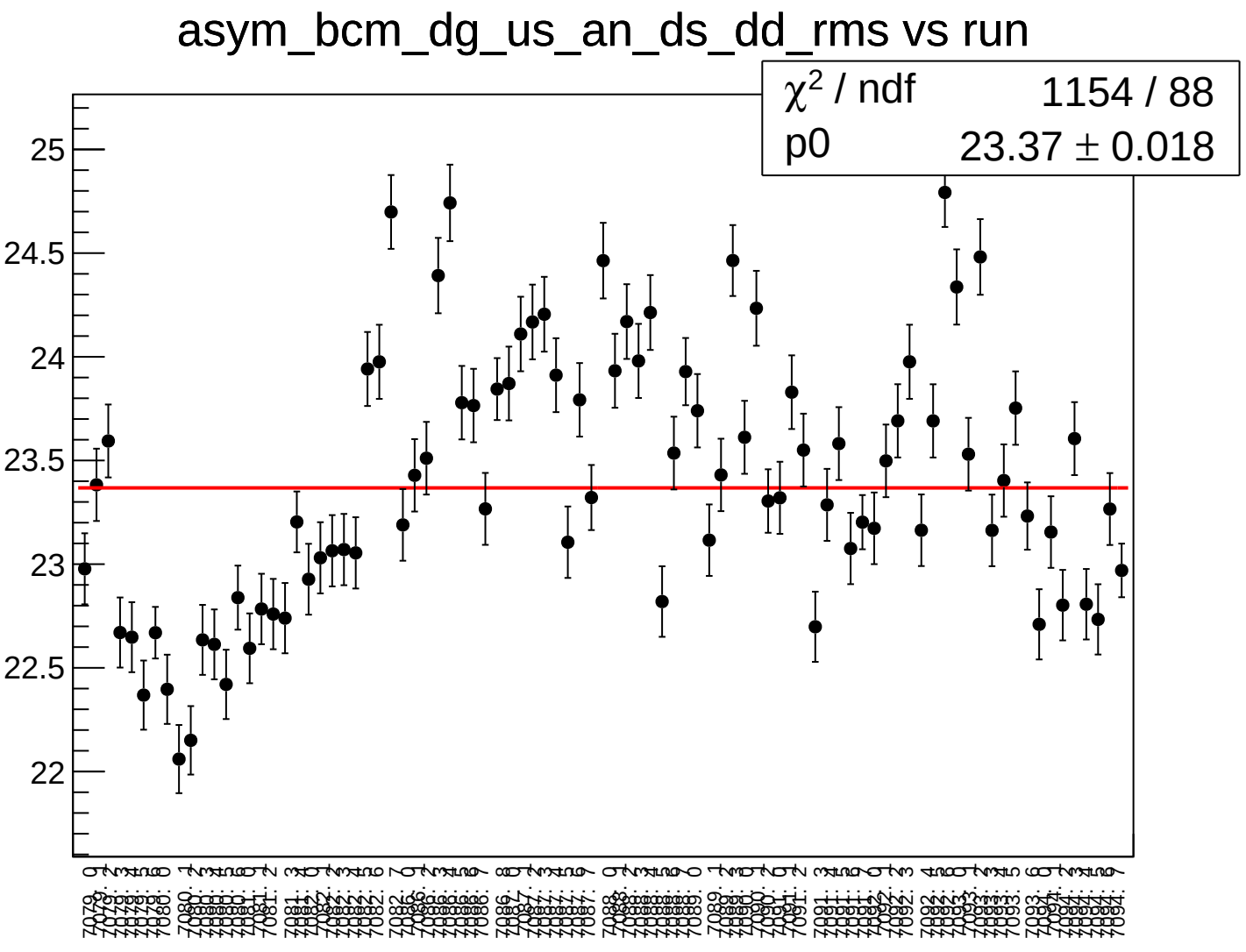

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1054 / 88
p0 15.34 ± 0.01182
16.5
16
15.5
15
14.5

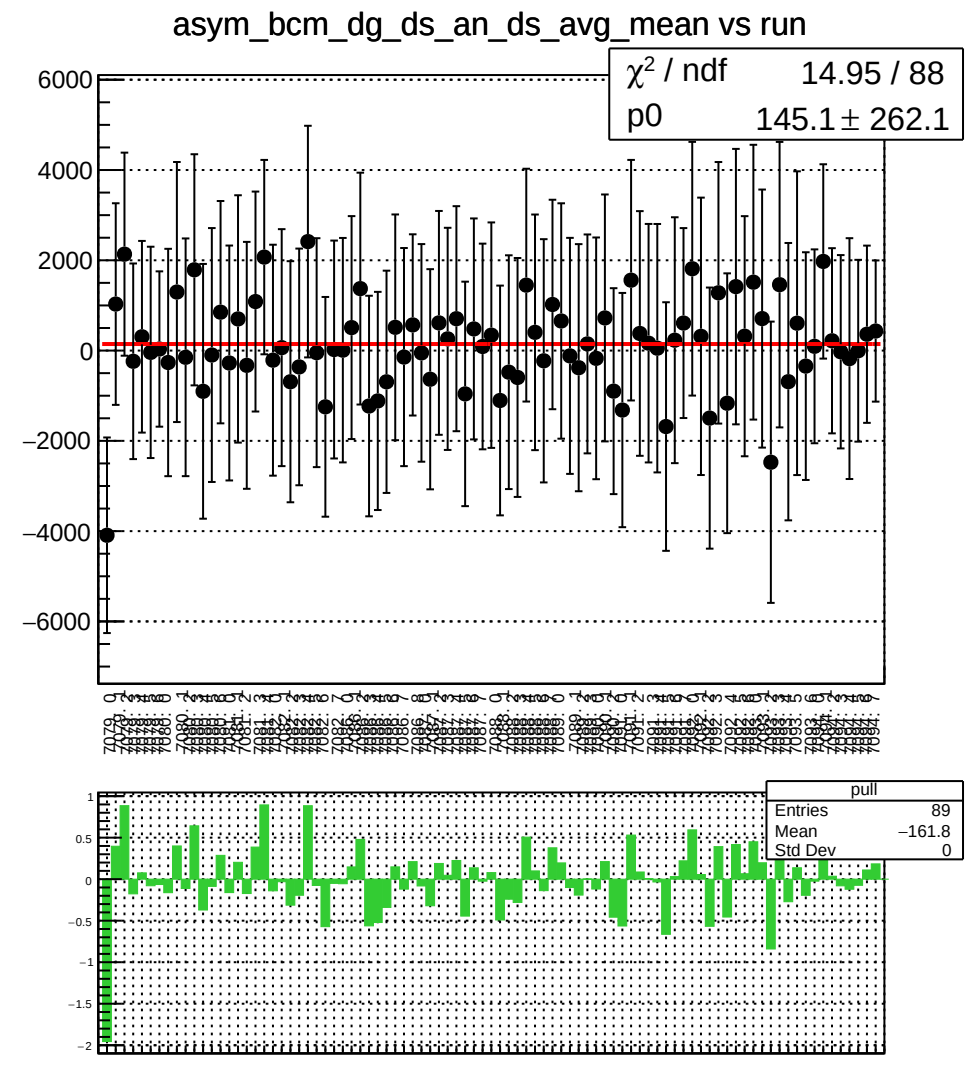

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 14.44 / 88
p0 134.5 ± 261.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −421.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.0008304
Std Dev 0.4028
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

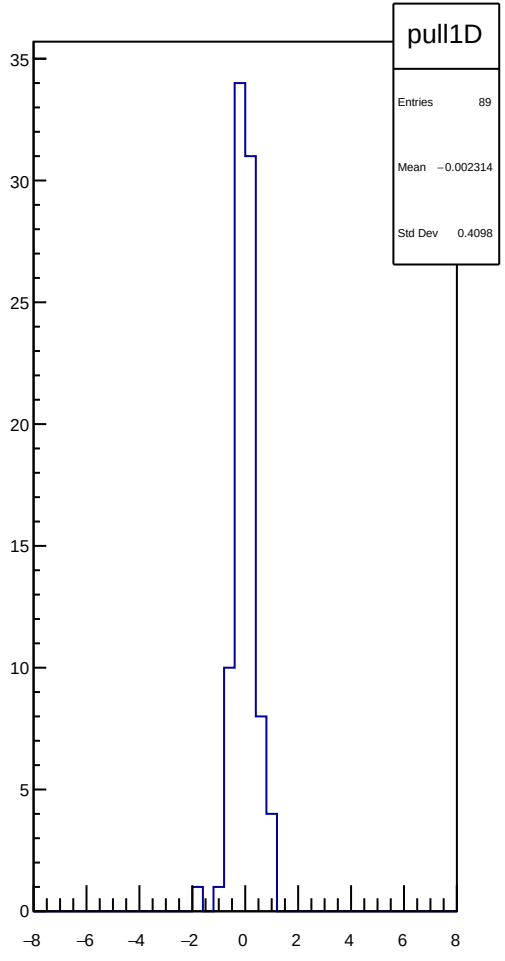

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.85e+04 / 88
p0 239 ± 0.1851
320
300
280
260
240
220
200
180

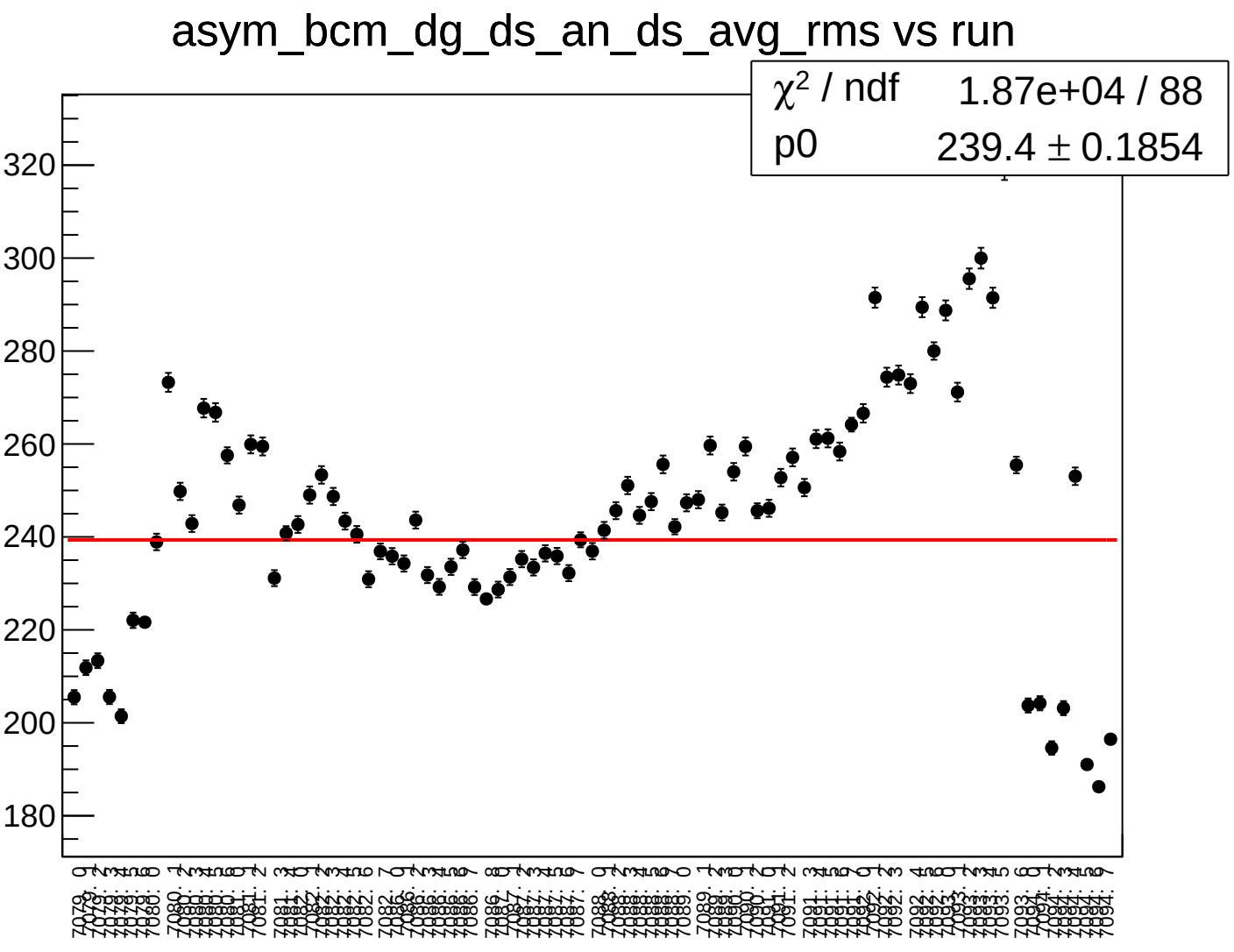

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 73.17 / 88
p0 3.474 ± 25.46
pull
Entries 89
Mean −175
Std Dev 0

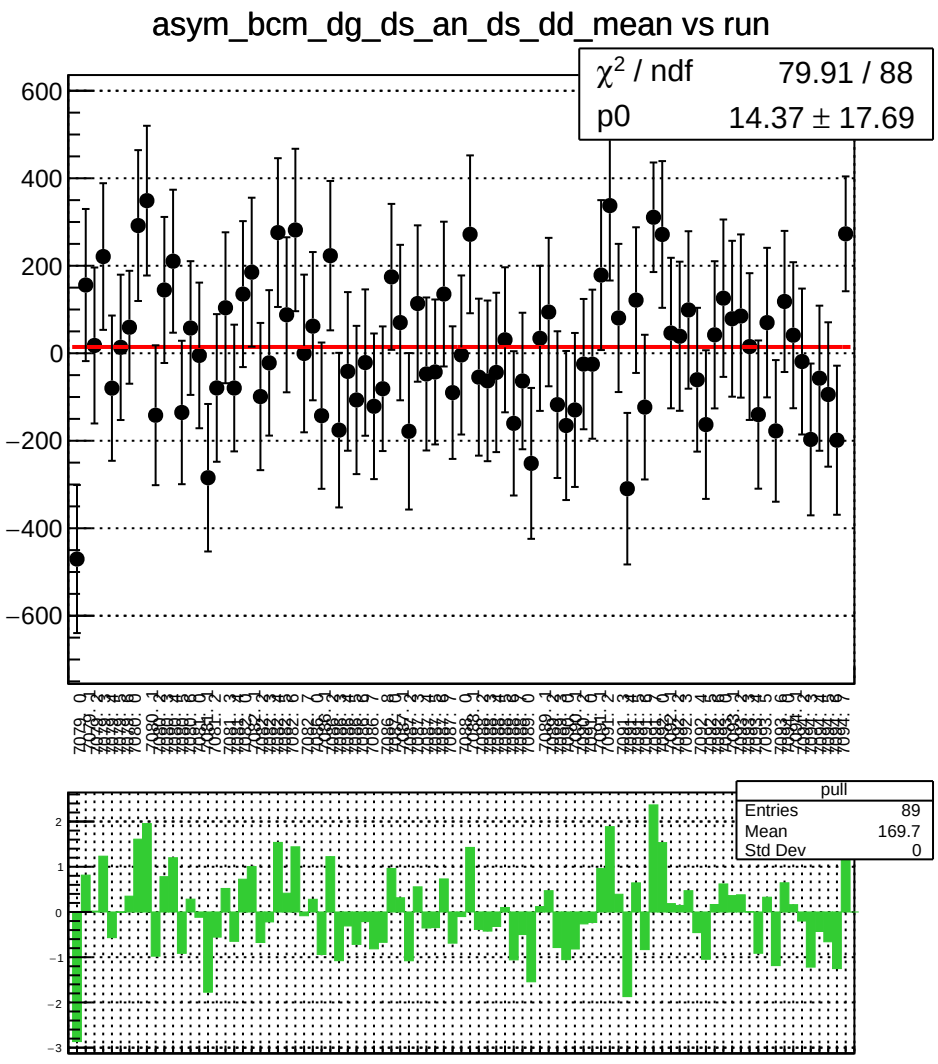

pull1D
Entries 89
Mean 0.008037
Std Dev 0.9067

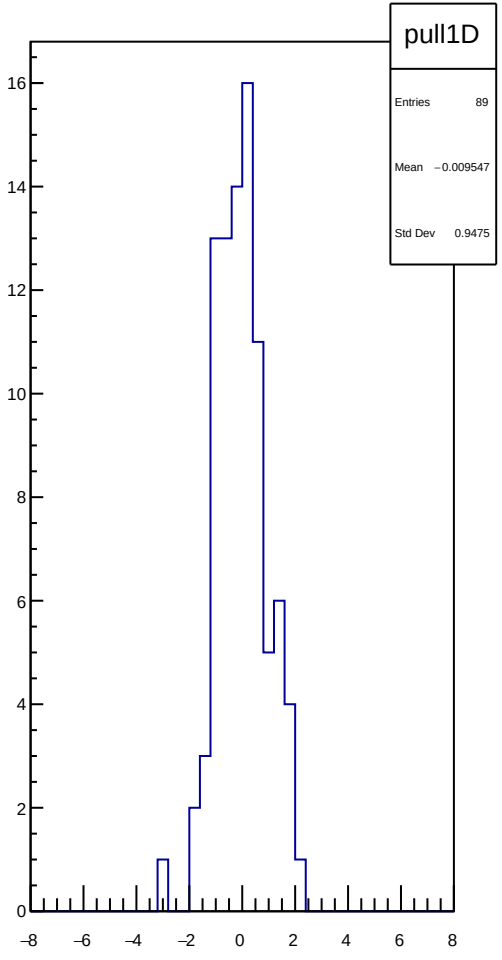

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1154 / 88
p0 23.37 ± 0.018
25
24.5
24
23.5
23
22.5
22

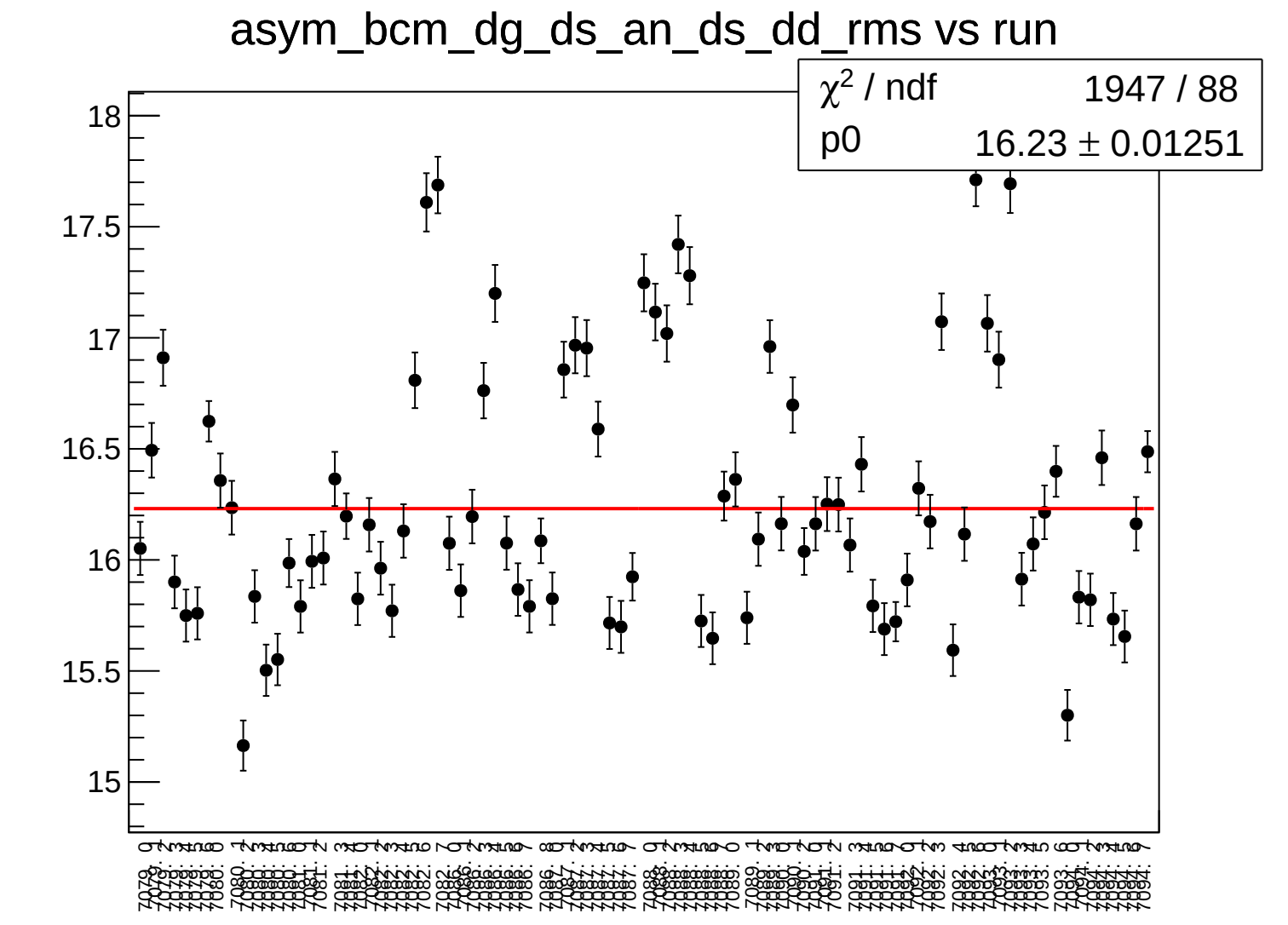

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 14.95 / 88
p0 145.1 ± 262.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −161.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

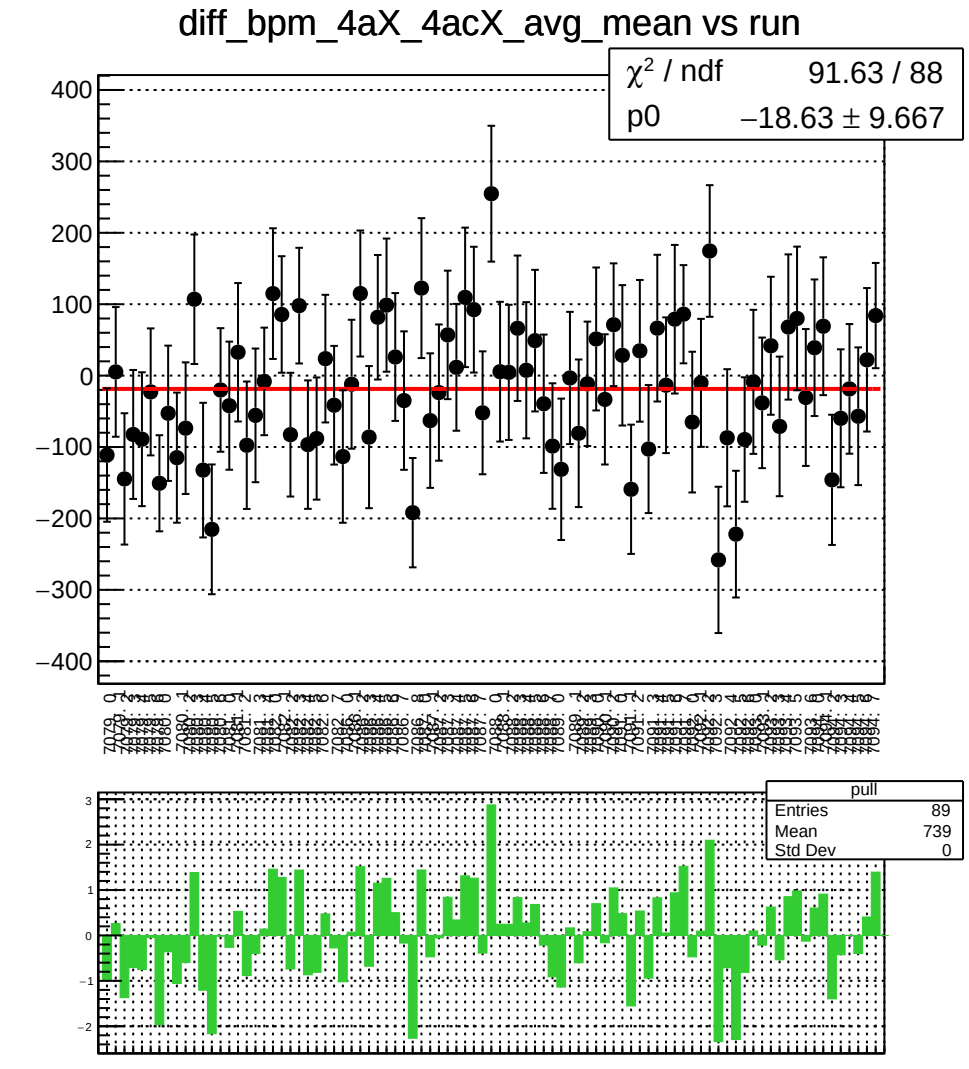

pull1D
Entries 89
Mean −0.002314
Std Dev 0.4098
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

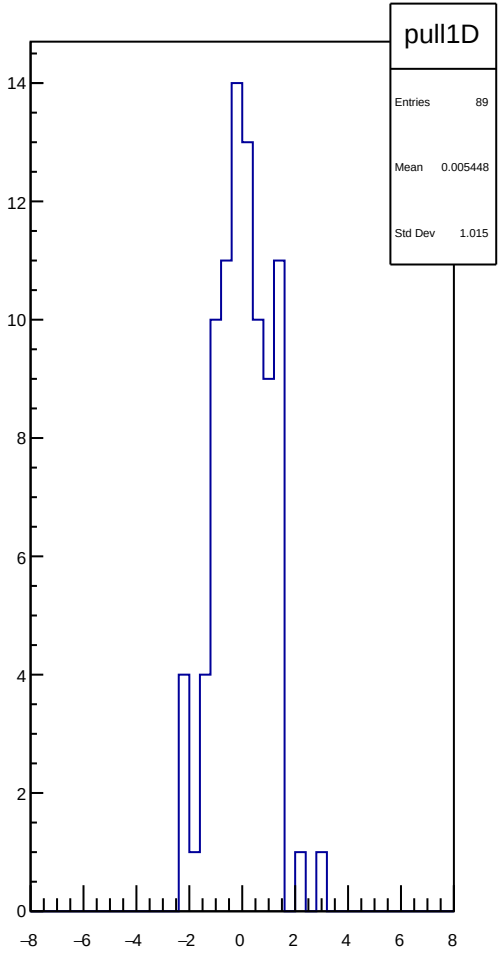

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.87e+04 / 88
p0 239.4 ± 0.1854
320
300
280
260
240
220
200
180

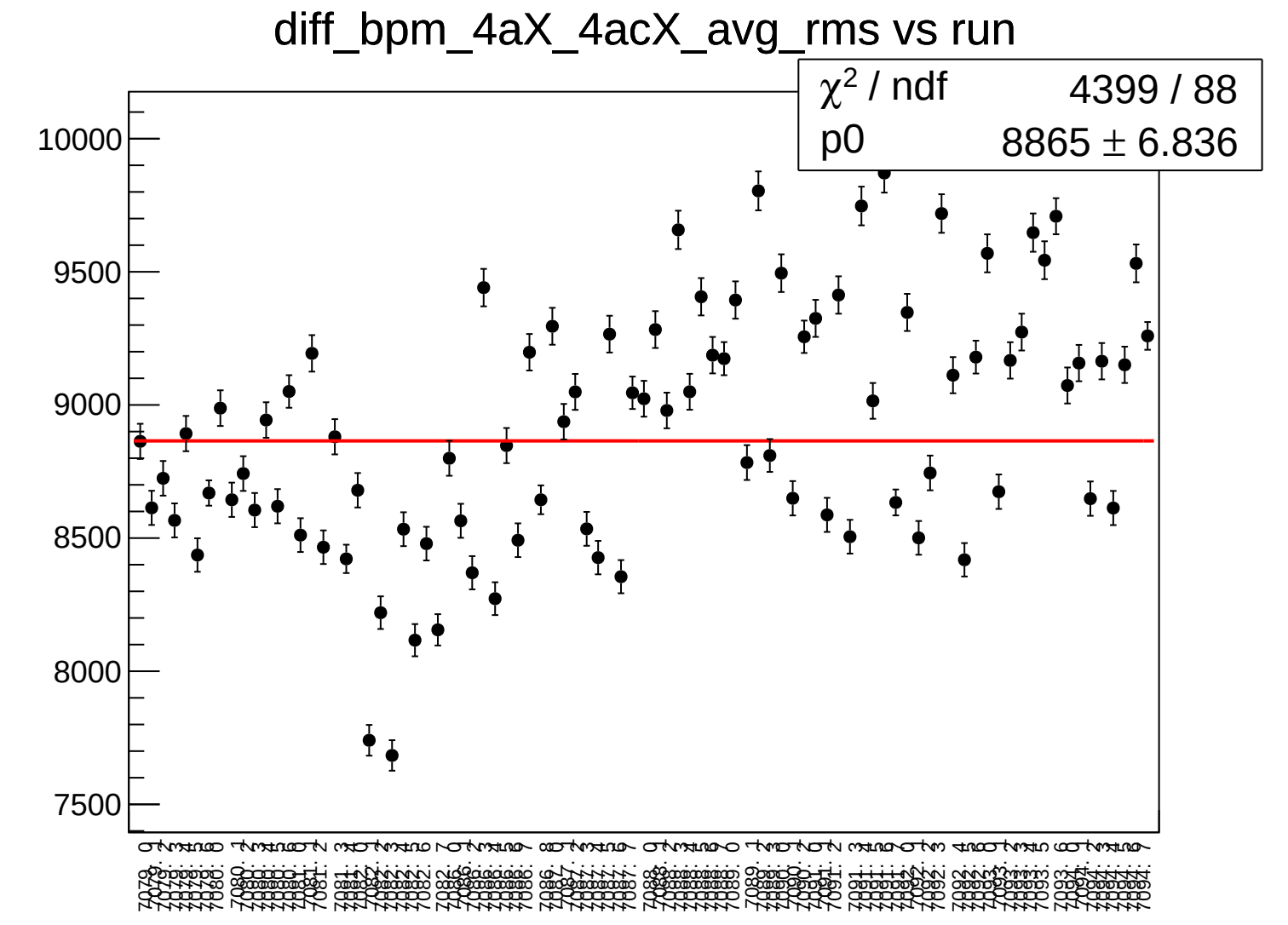

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ^2 / ndf 79.91 / 88
p0 14.37 ± 17.69
pull
Entries 89
Mean 169.7
Std Dev 0

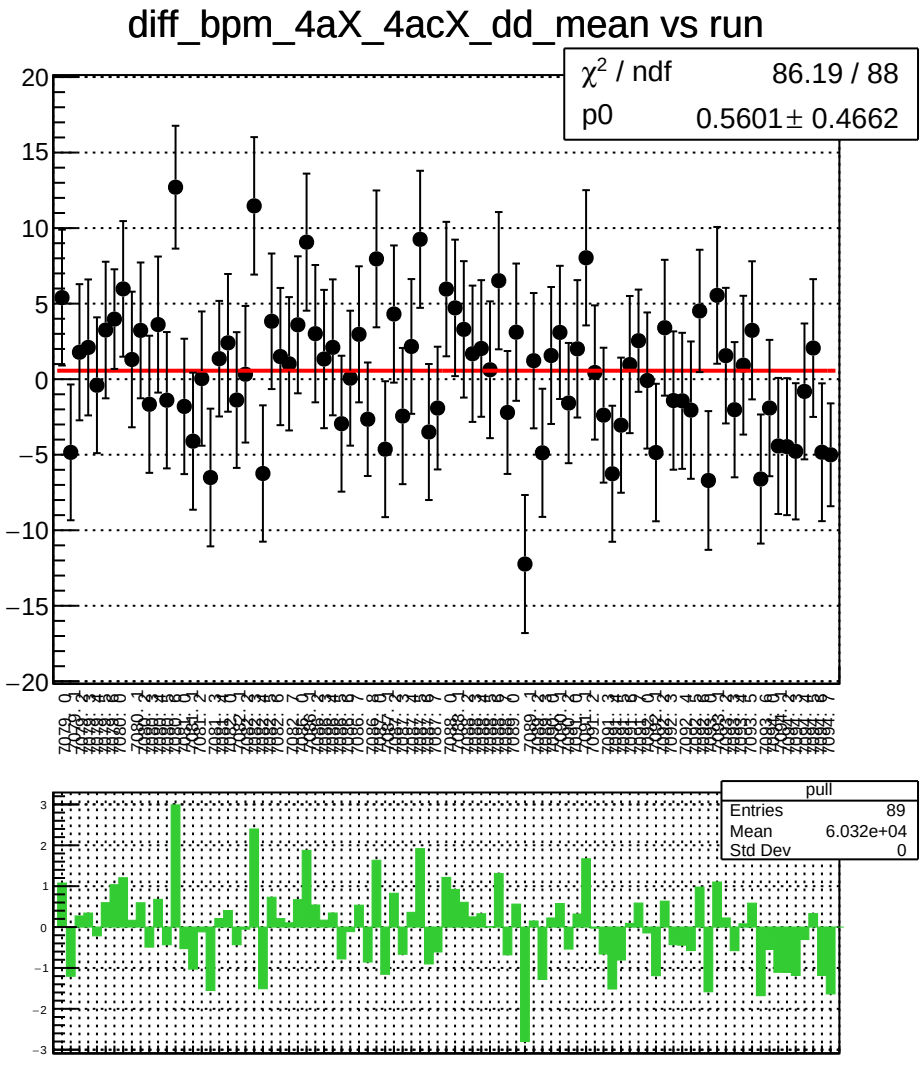

pull1D
Entries 89
Mean −0.009547
Std Dev 0.9475

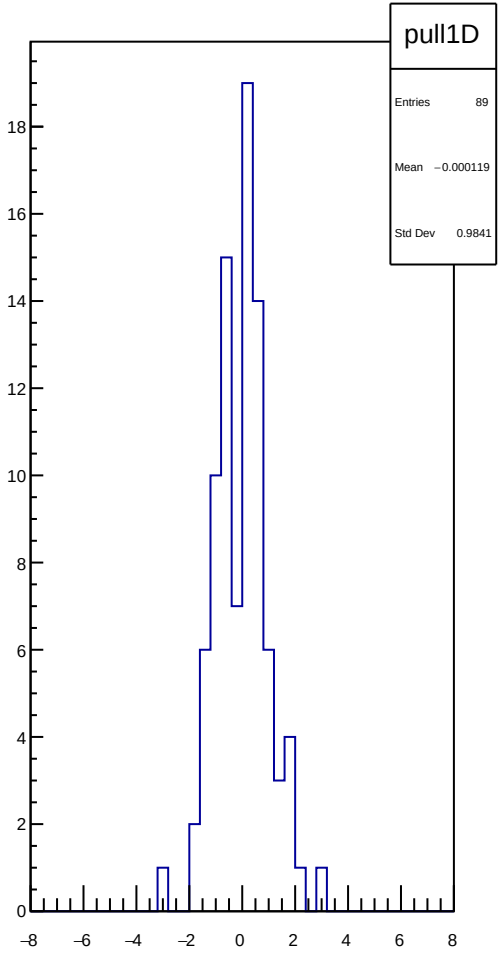

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1947 / 88
p0 16.23 ± 0.01251
18
17.5
17
16.5
16
15.5
15

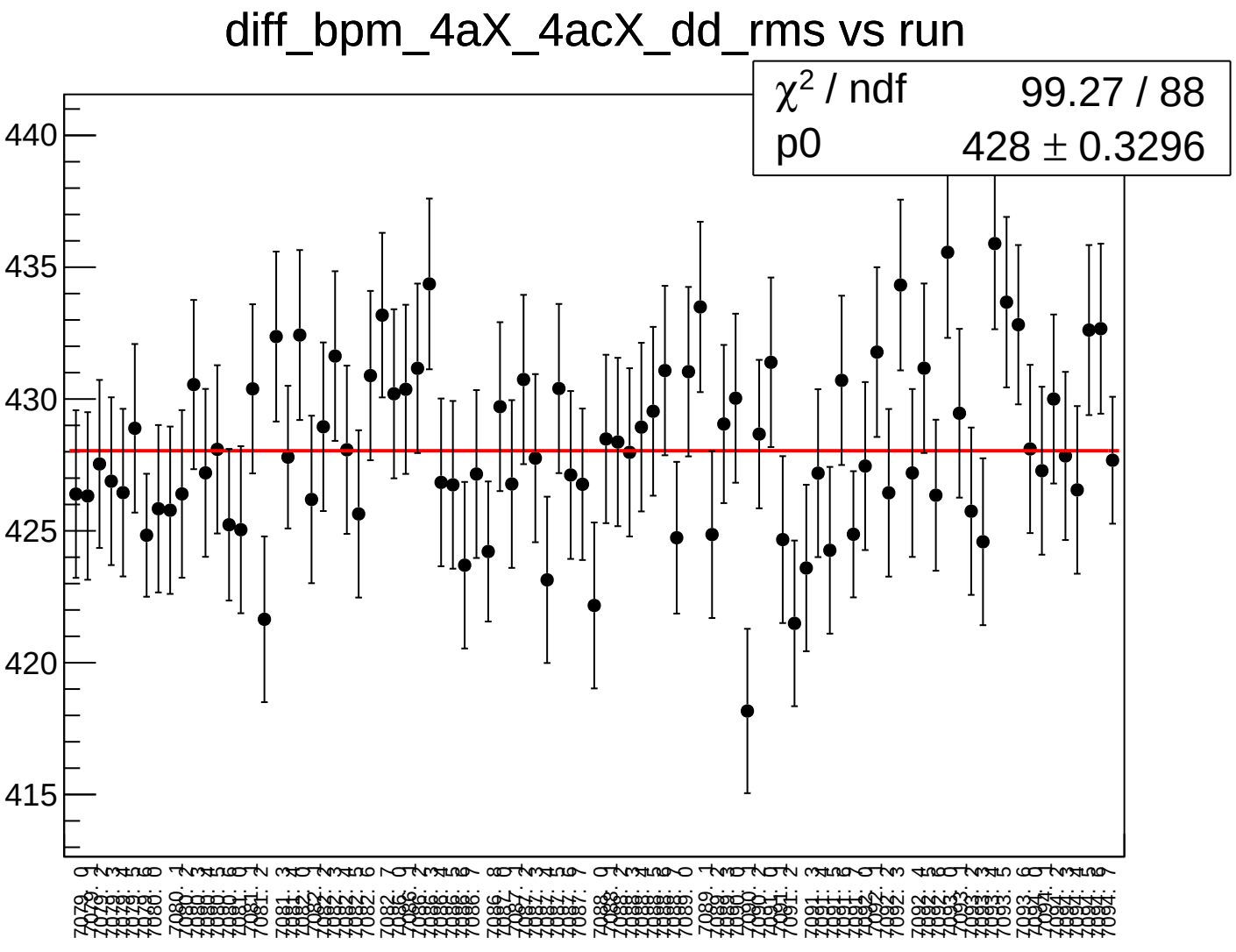

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 91.63 / 88
p0 −18.63 ± 9.667
pull
Entries 89
Mean 739
Std Dev 0

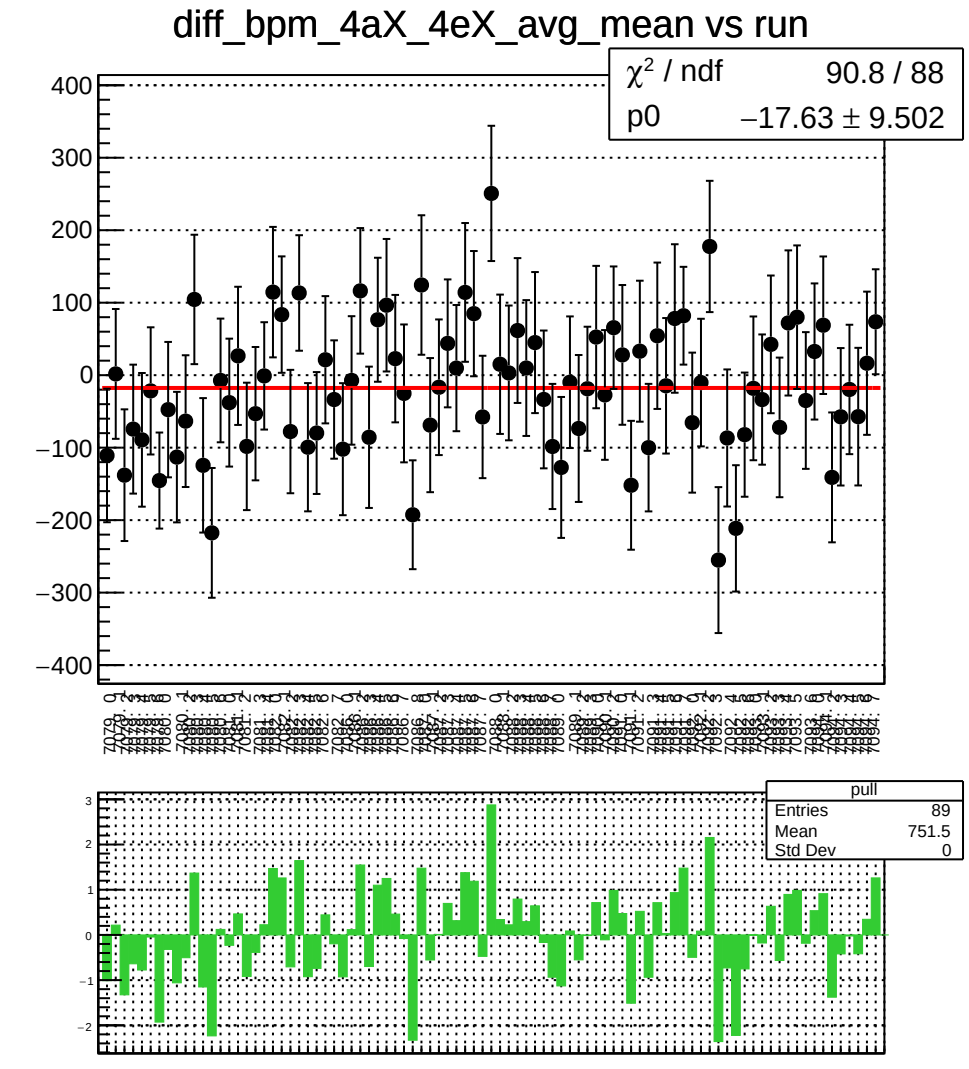

pull1D
Entries 89
Mean 0.005448
Std Dev 1.015

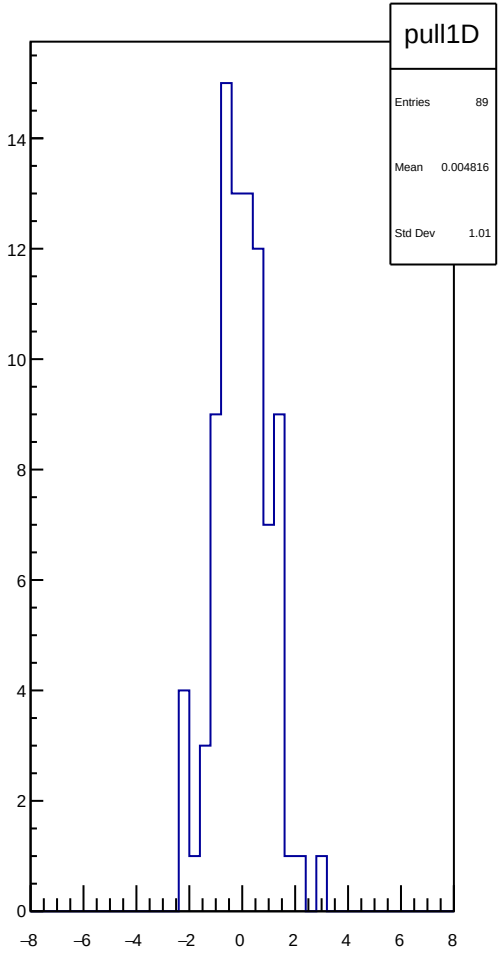

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 4399 / 88
p0 8865 ± 6.836
10000
9500
9000
8500
8000
7500

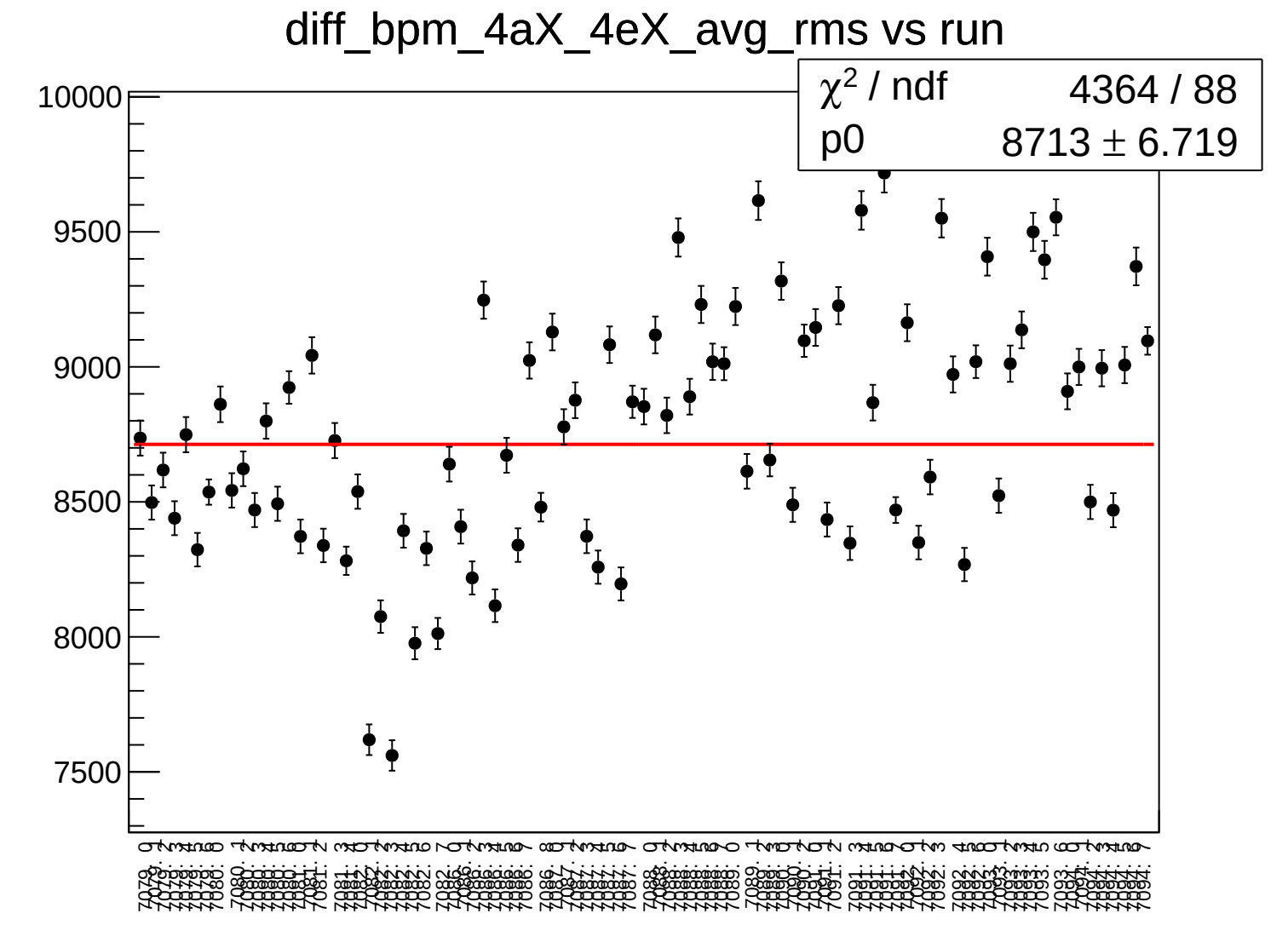

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 86.19 / 88
p0 0.5601± 0.4662
pull
Entries 89
Mean 6.032e+04
Std Dev 0

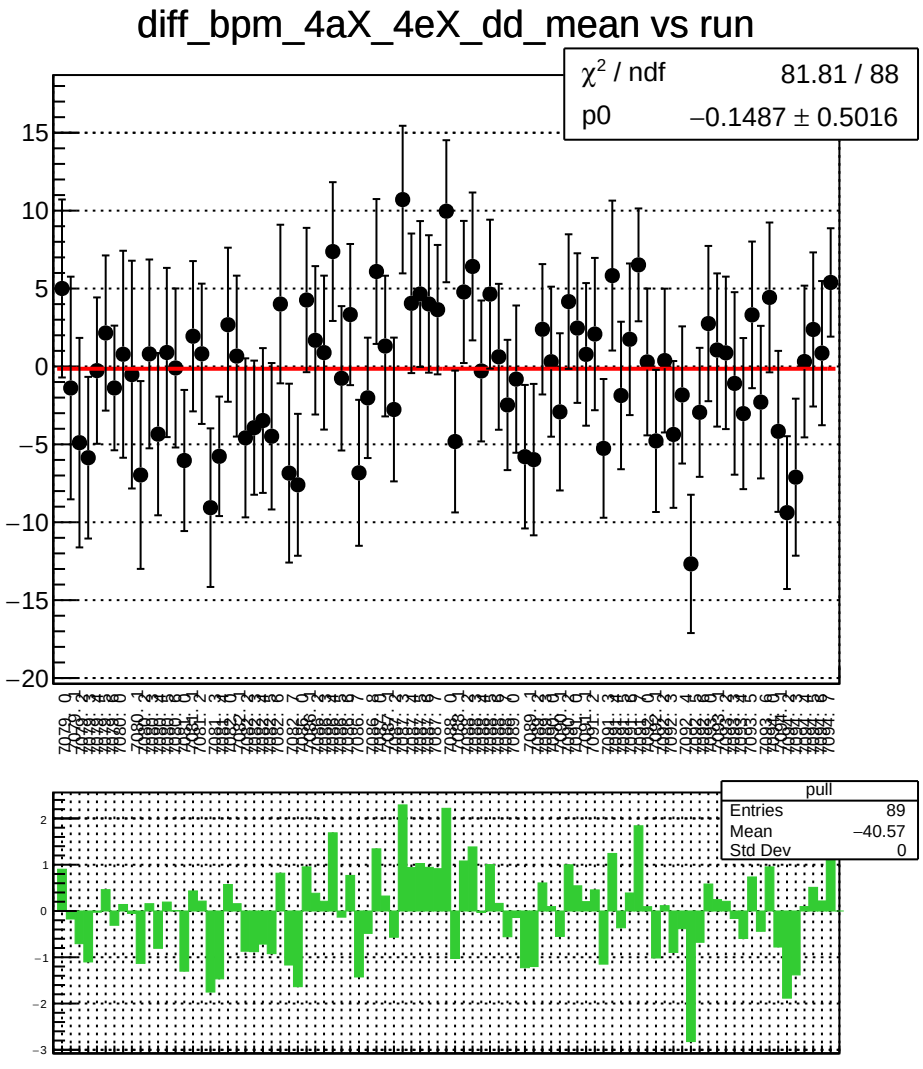

pull1D
Entries 89
Mean −0.000119
Std Dev 0.9841

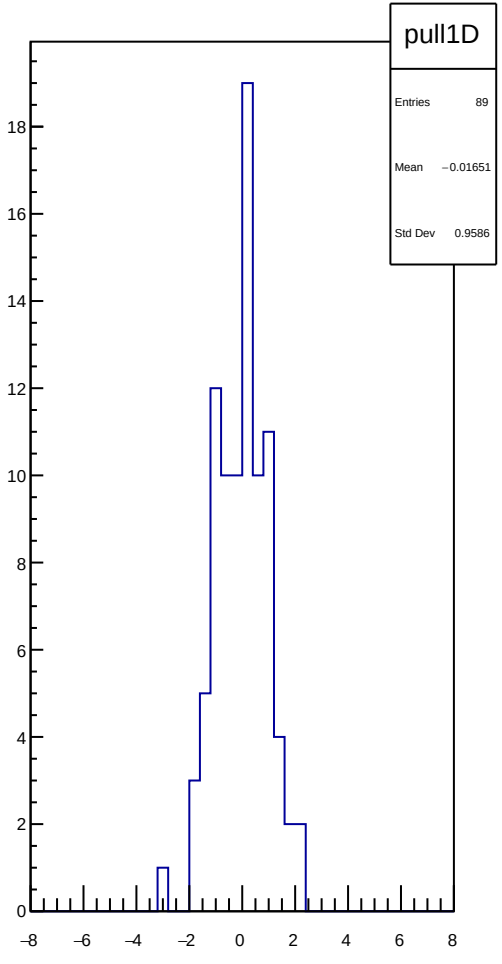

diff_bpm_4aX_4acX_dd_rms vs run
χ^2 / ndf 99.27 / 88
p0 428 ± 0.3296
440
435
430
425
420
415

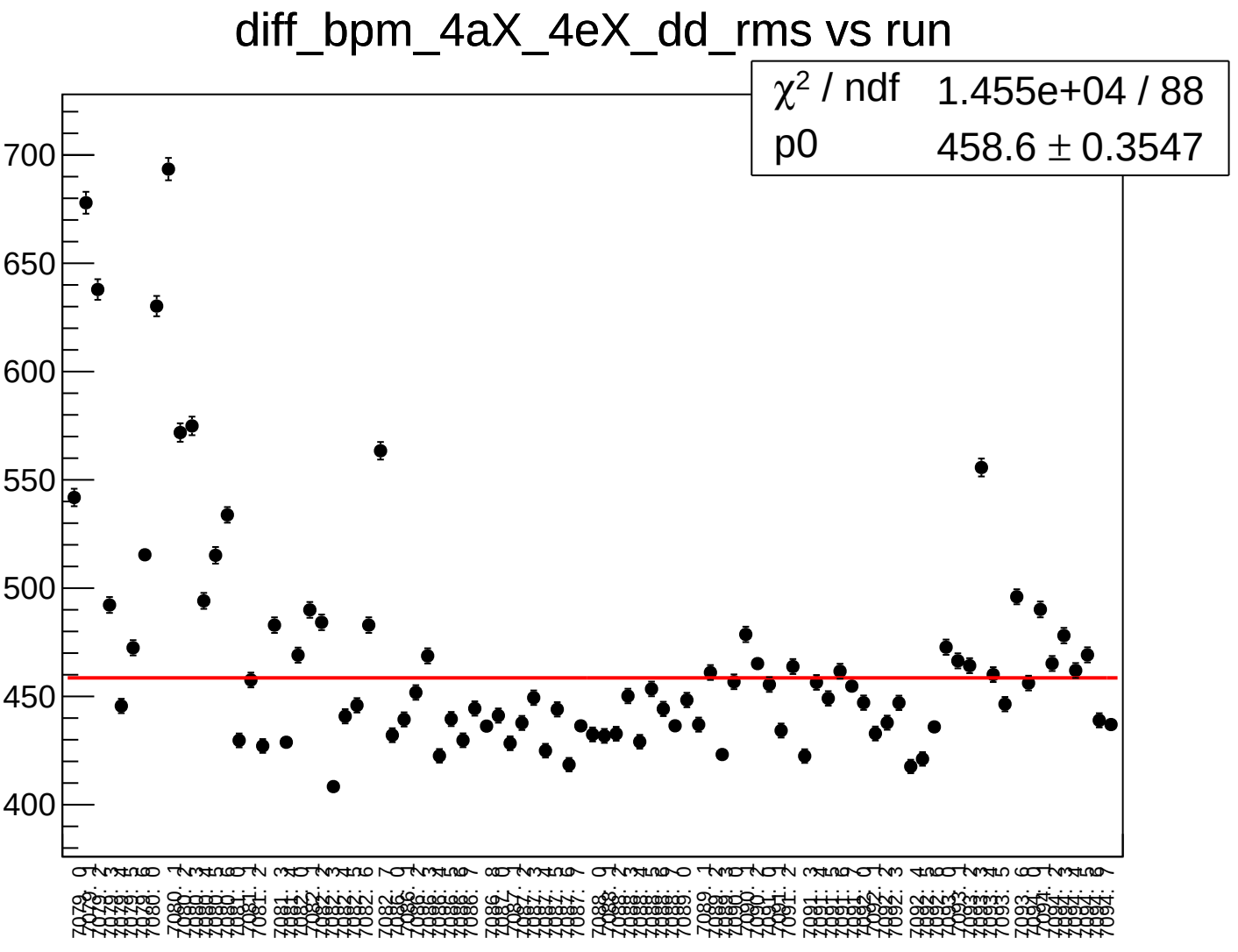

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 90.8 / 88
p0 −17.63 ± 9.502
pull
Entries 89
Mean 751.5
Std Dev 0

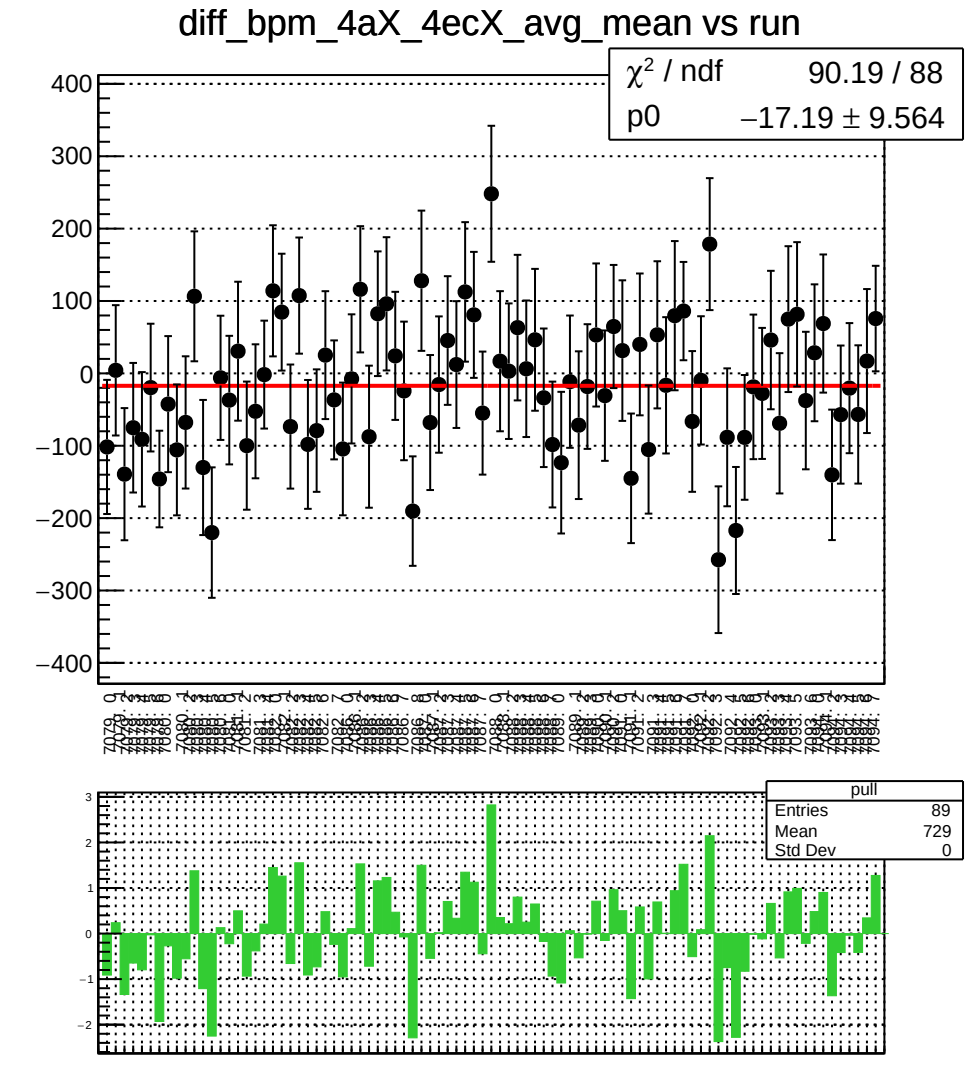

pull1D
Entries 89
Mean 0.004816
Std Dev 1.01

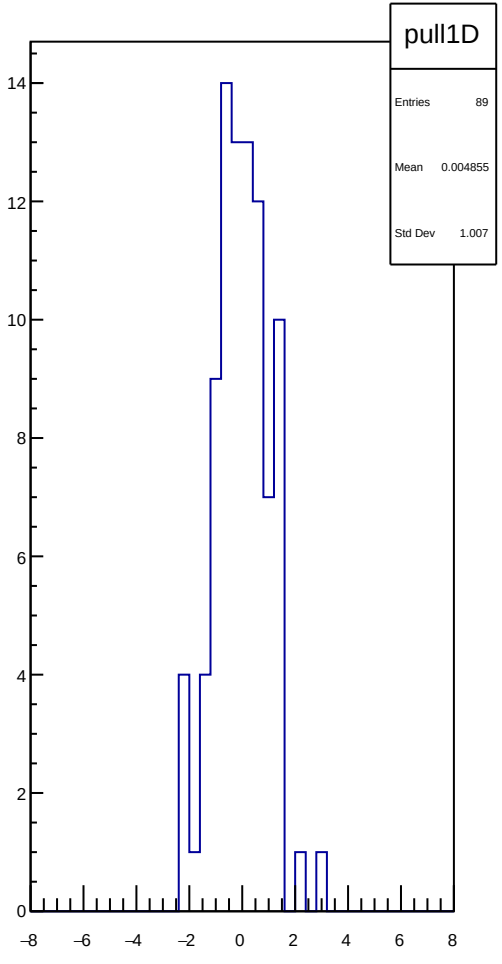

diff_bpm_4aX_4eX_avg_rms vs run
χ^2 / ndf 4364 / 88
p0 8713 ± 6.719
10000
9500
9000
8500
8000
7500

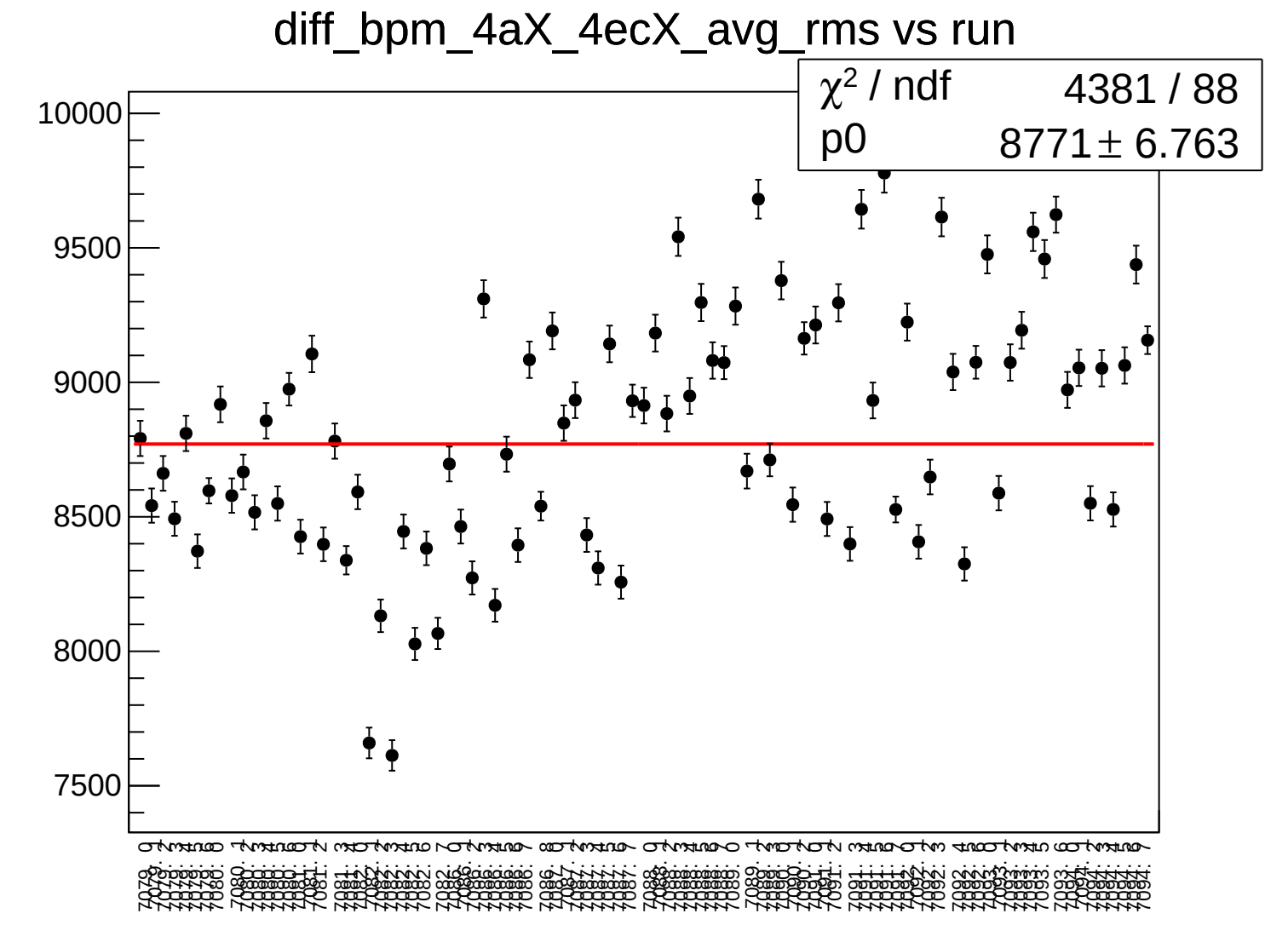

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 81.81 / 88
p0 −0.1487 ± 0.5016
pull
Entries 89
Mean −40.57
Std Dev 0

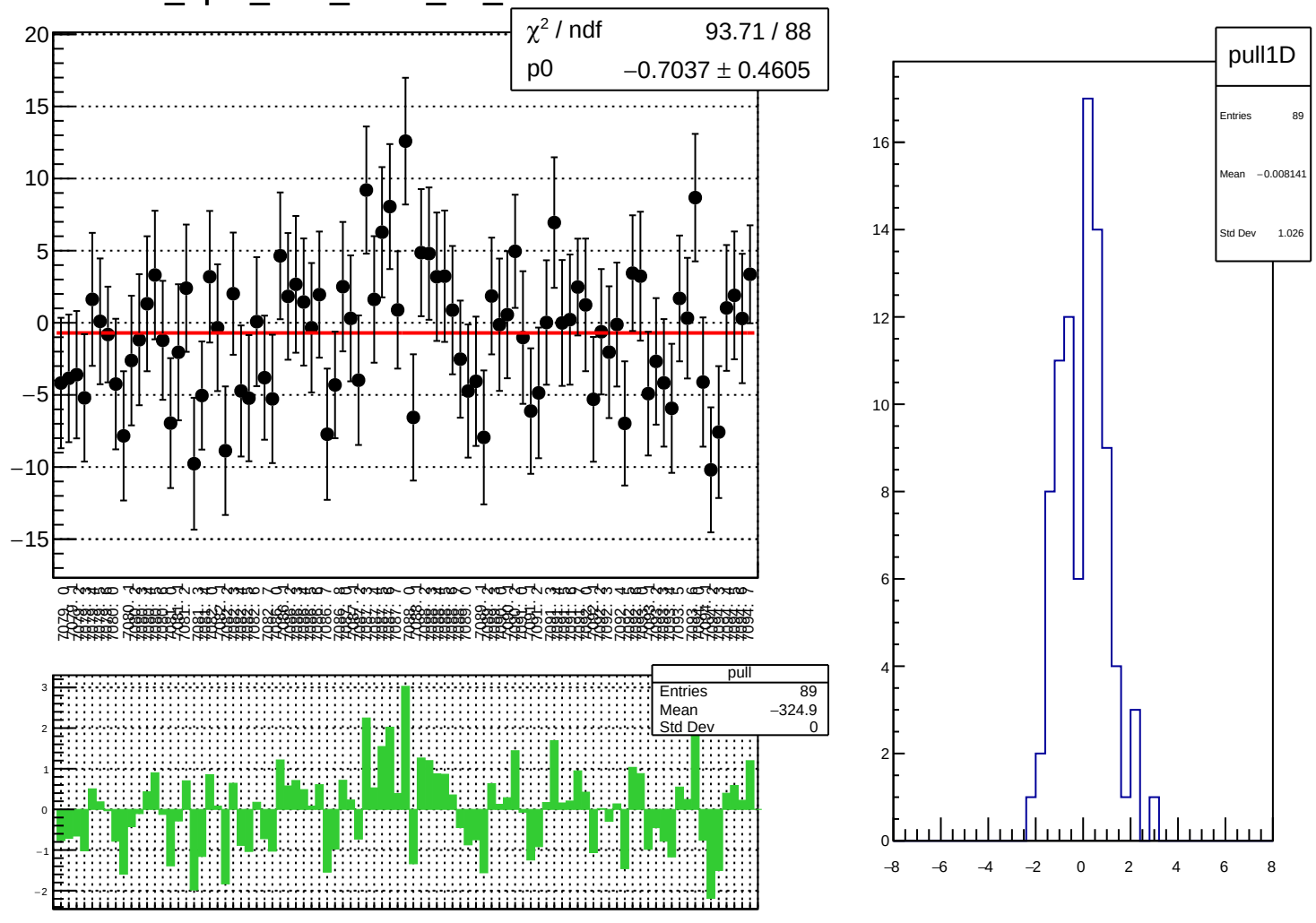

pull1D
Entries 89
Mean −0.01651
Std Dev 0.9586

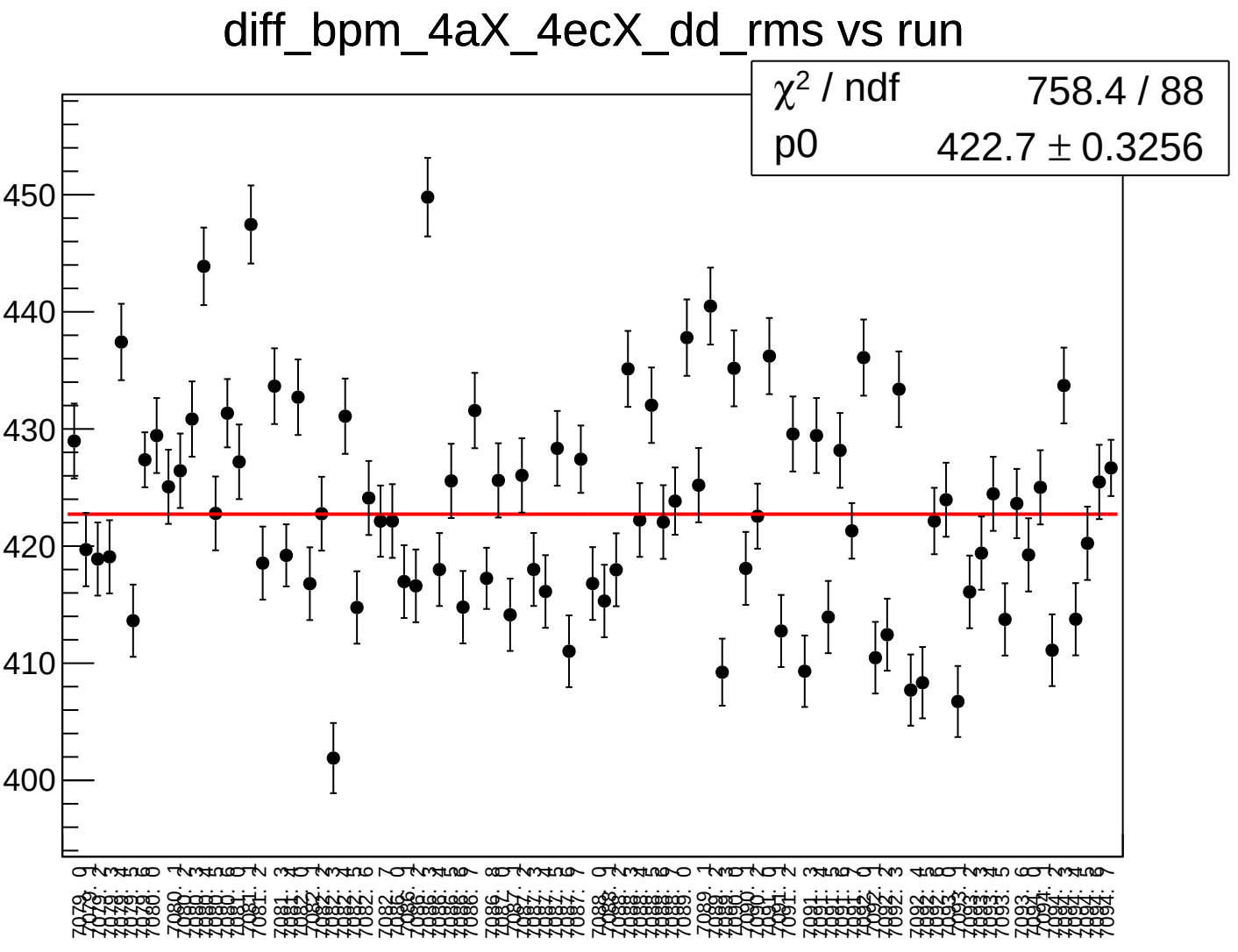

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1.455e+04 / 88
p0 458.6 ± 0.3547
700
650
600
550
500
450
400

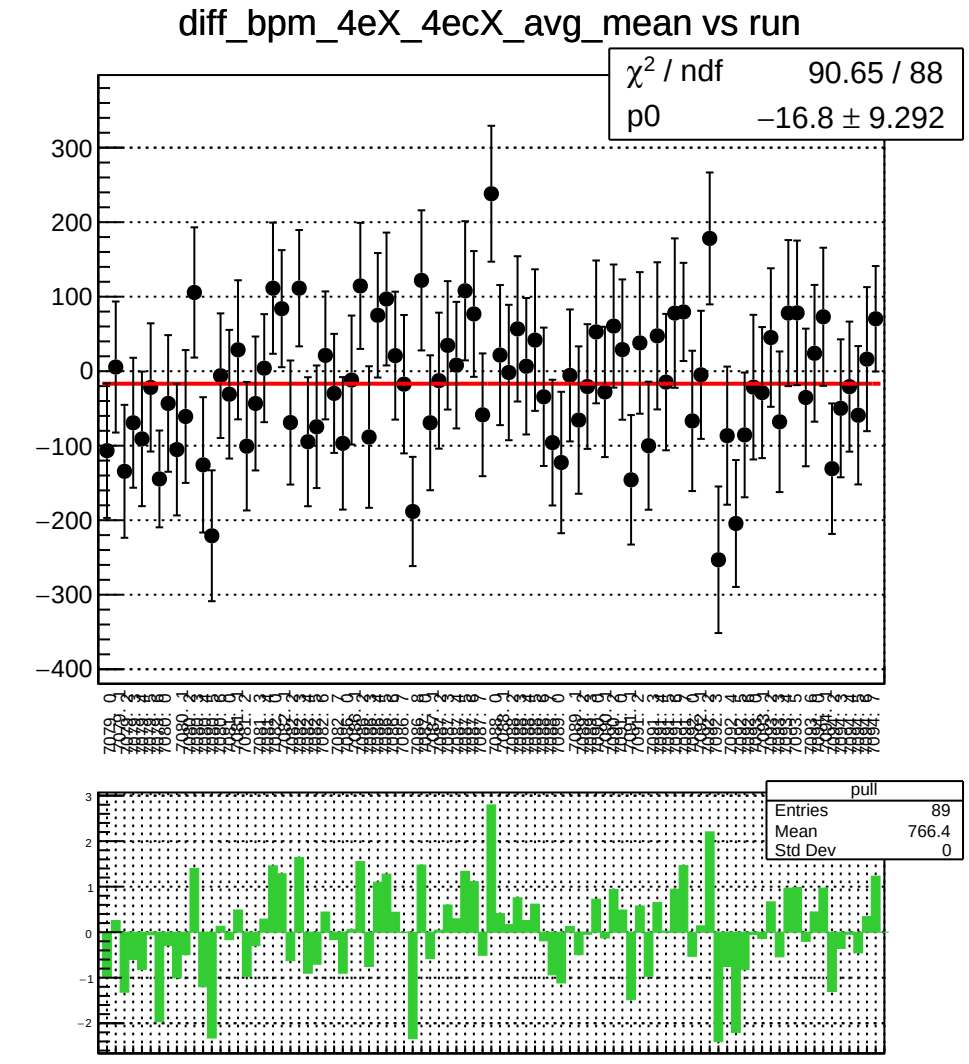

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 90.19 / 88
p0 −17.19 ± 9.564
pull
Entries 89
Mean 729
Std Dev 0

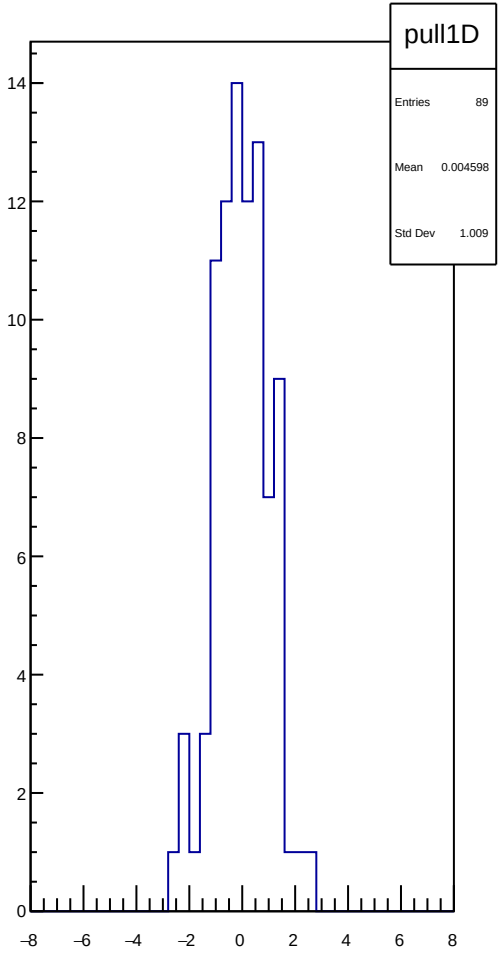

pull1D
Entries 89
Mean 0.004855
Std Dev 1.007

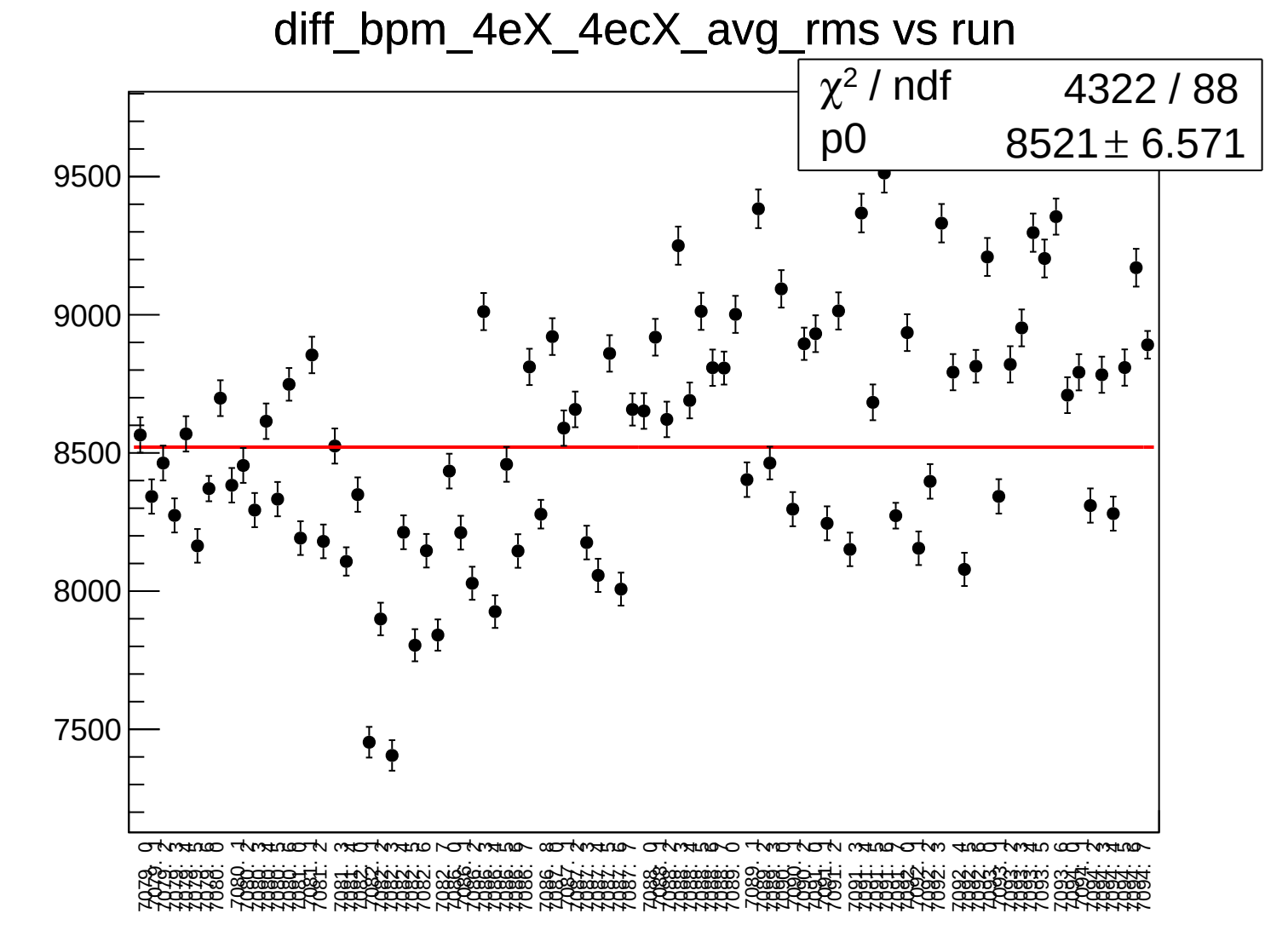

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 4381 / 88
p0 8771 ± 6.763
10000
9500
9000
8500
8000
7500

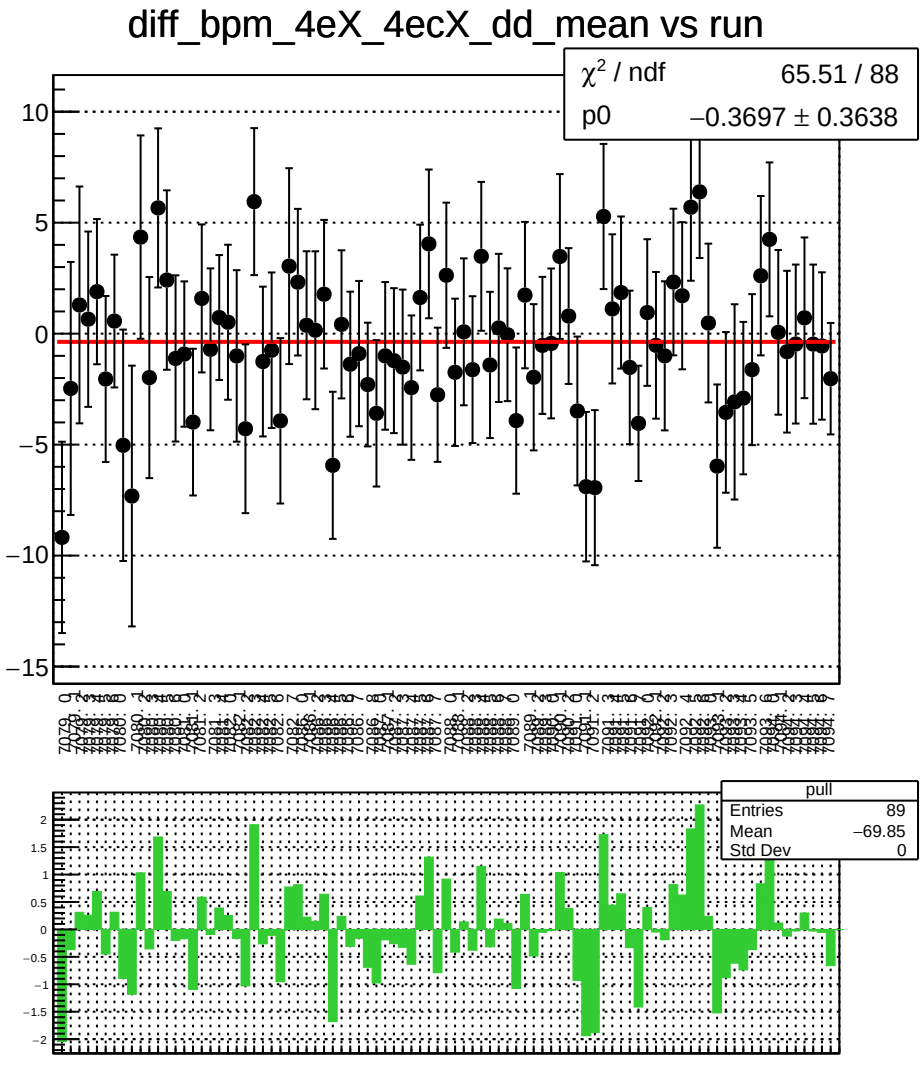

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 93.71 / 88
p0 −0.7037 ± 0.4605
pull
Entries 89
Mean −324.9
Std Dev 0
pull1D
Entries 89
Mean −0.008141
Std Dev 1.026

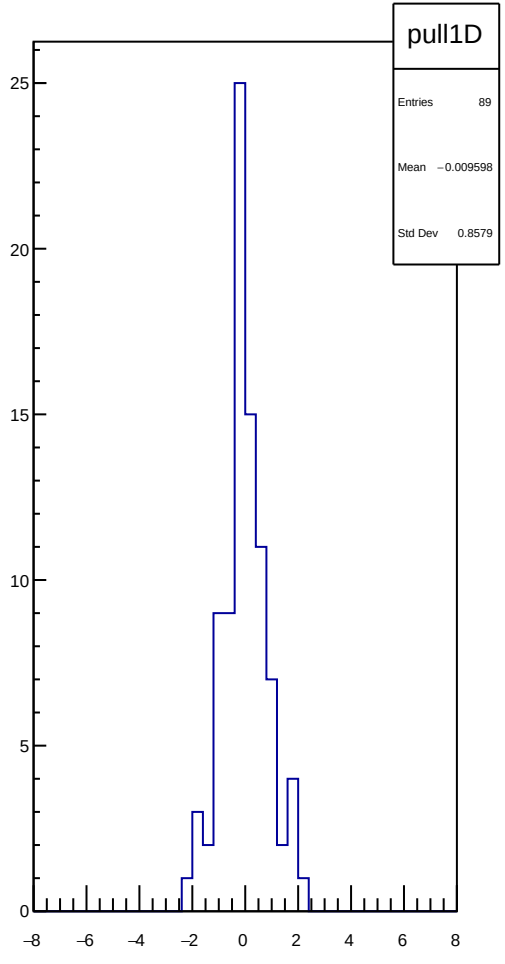

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 758.4 / 88
p0 422.7 ± 0.3256
450
440
430
420
410
400

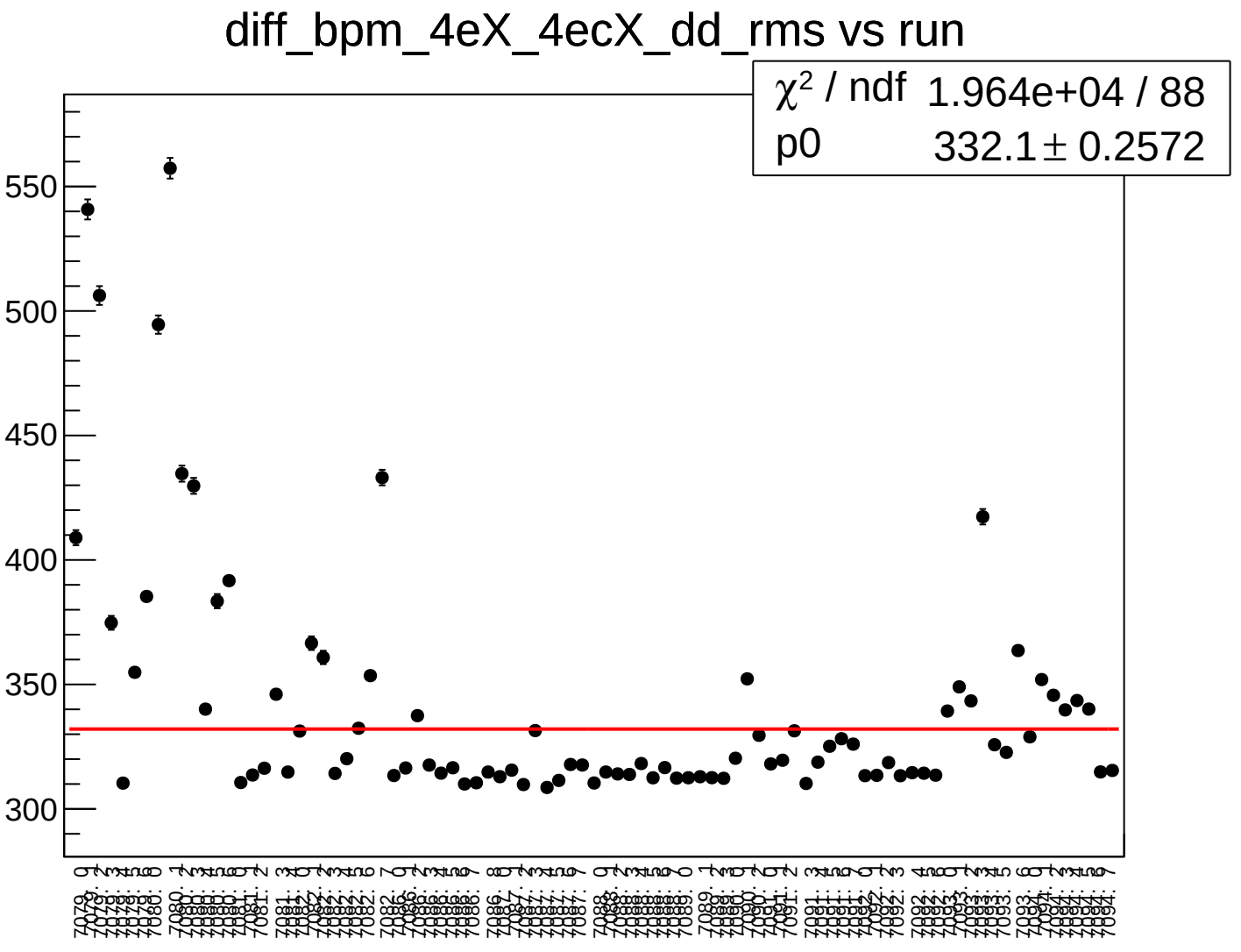

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 90.65 / 88
p0 −16.8 ± 9.292
pull
Entries 89
Mean 766.4
Std Dev 0

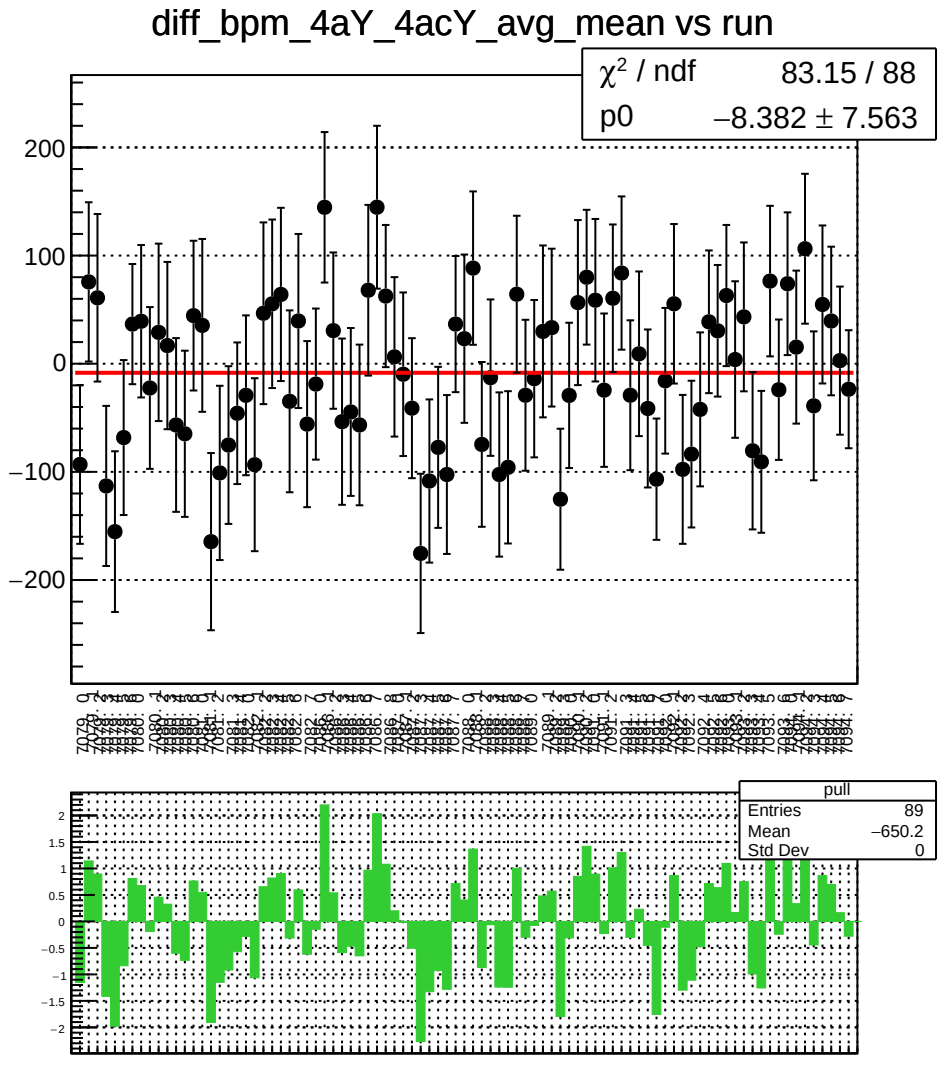

pull1D
Entries 89
Mean 0.004598
Std Dev 1.009

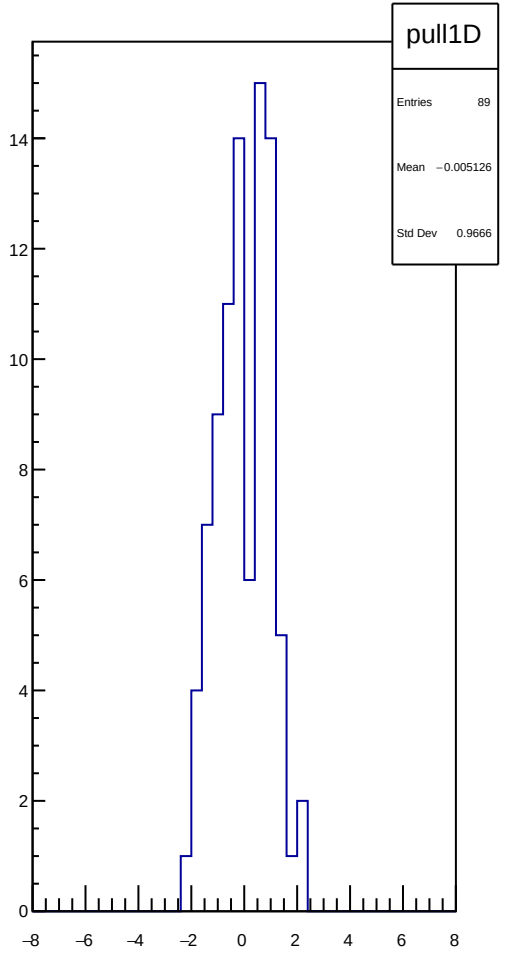

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 4322 / 88
p0 8521 ± 6.571
9500
9000
8500
8000
7500

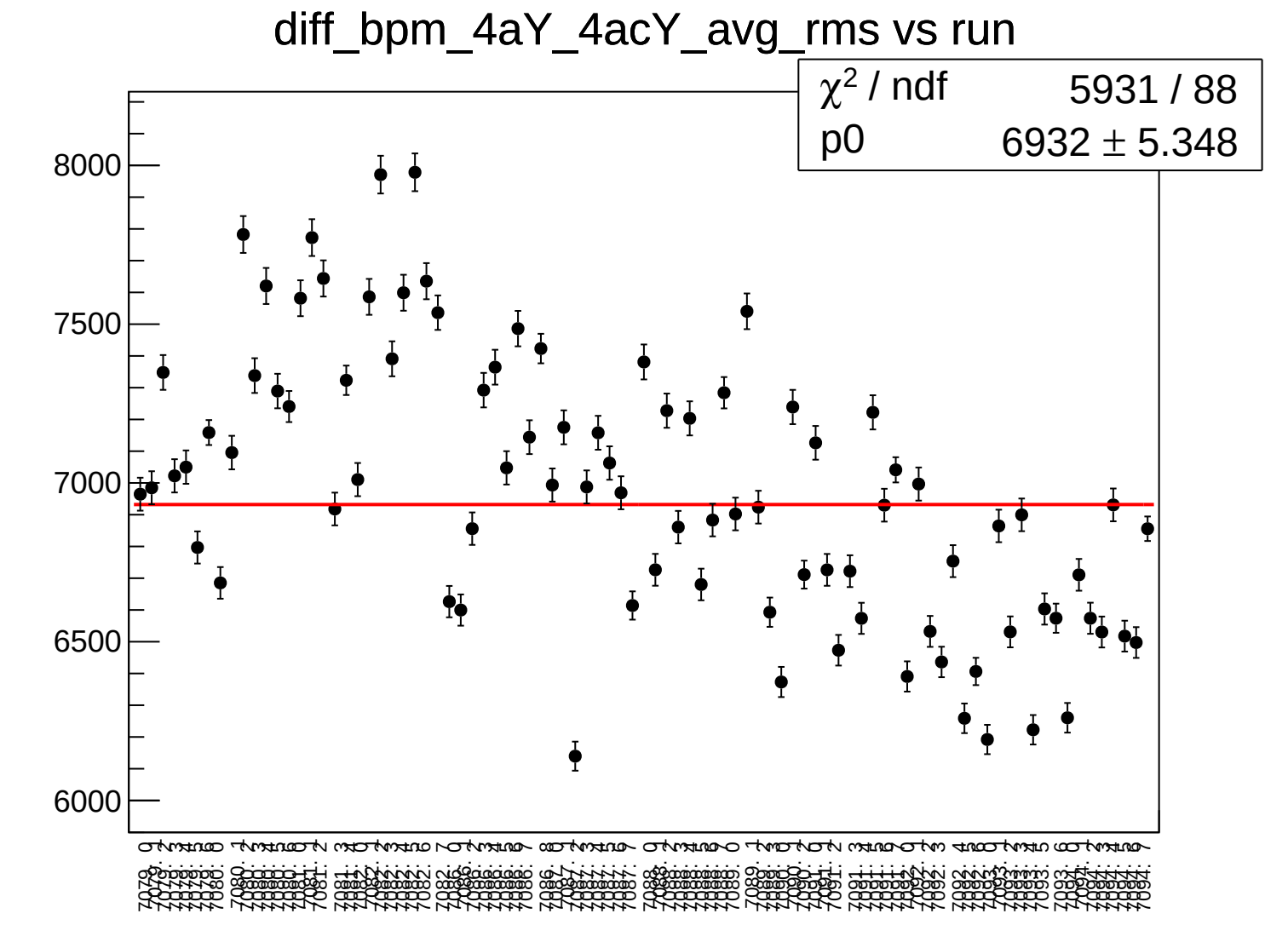

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 65.51 / 88
p0 −0.3697 ± 0.3638
pull
Entries 89
Mean −69.85
Std Dev 0

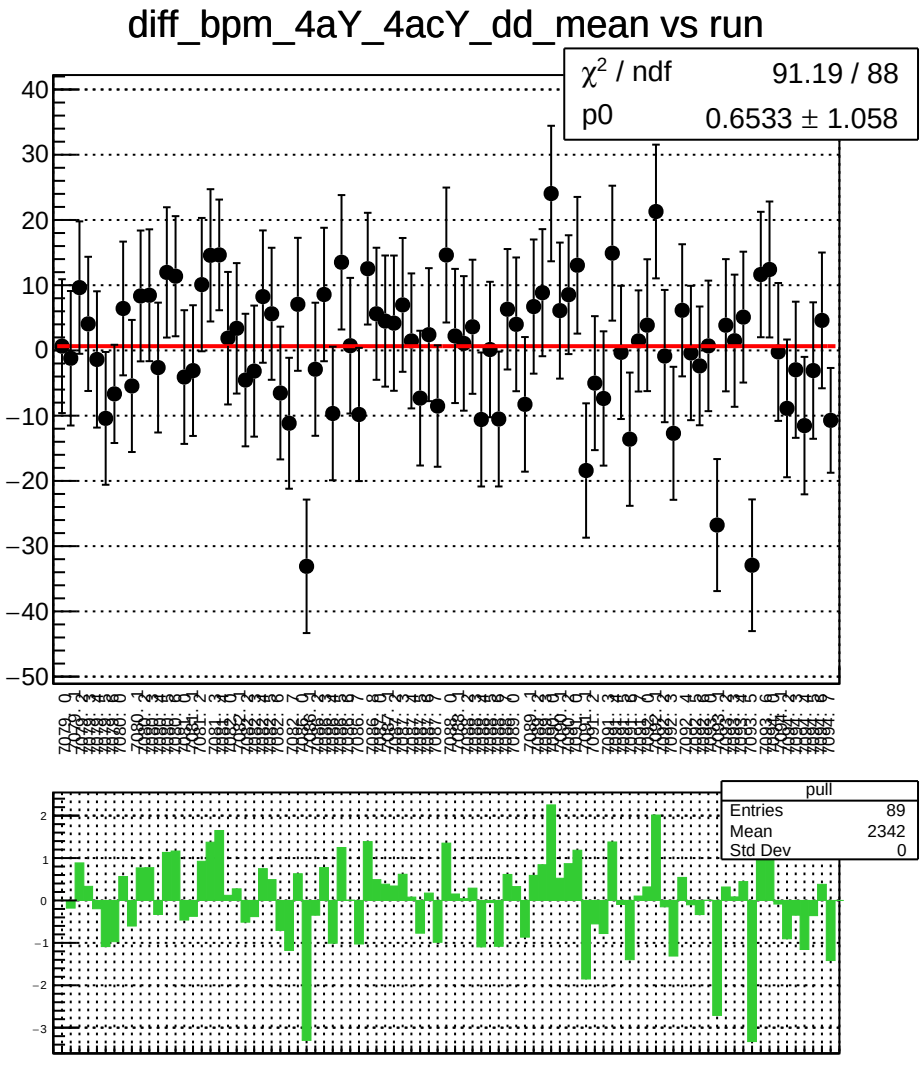

pull1D
Entries 89
Mean −0.009598
Std Dev 0.8579

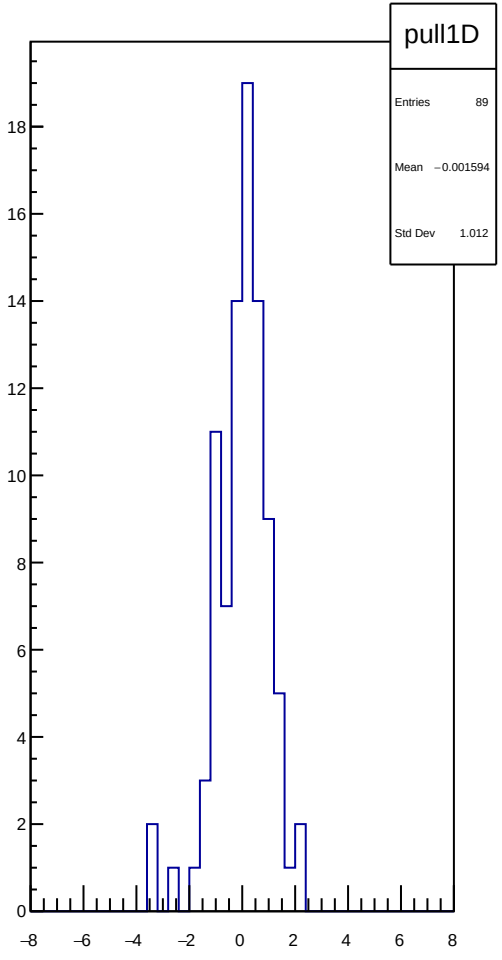

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 1.964e+04 / 88
p0 332.1 ± 0.2572
550
500
450
400
350
300

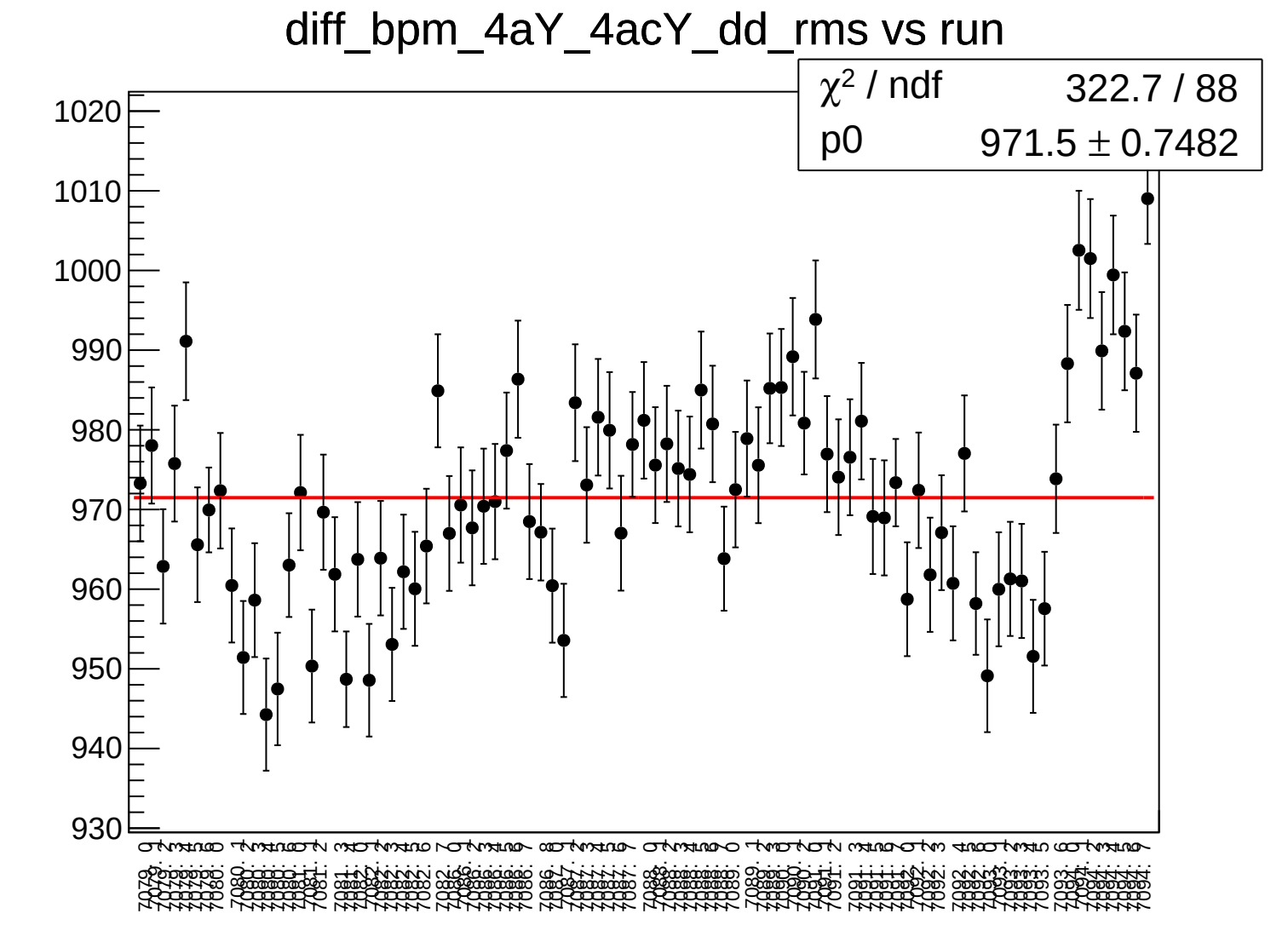

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 83.15 / 88
p0 −8.382 ± 7.563
200
100
0
−100
−200
pull
Entries 89
Mean −650.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

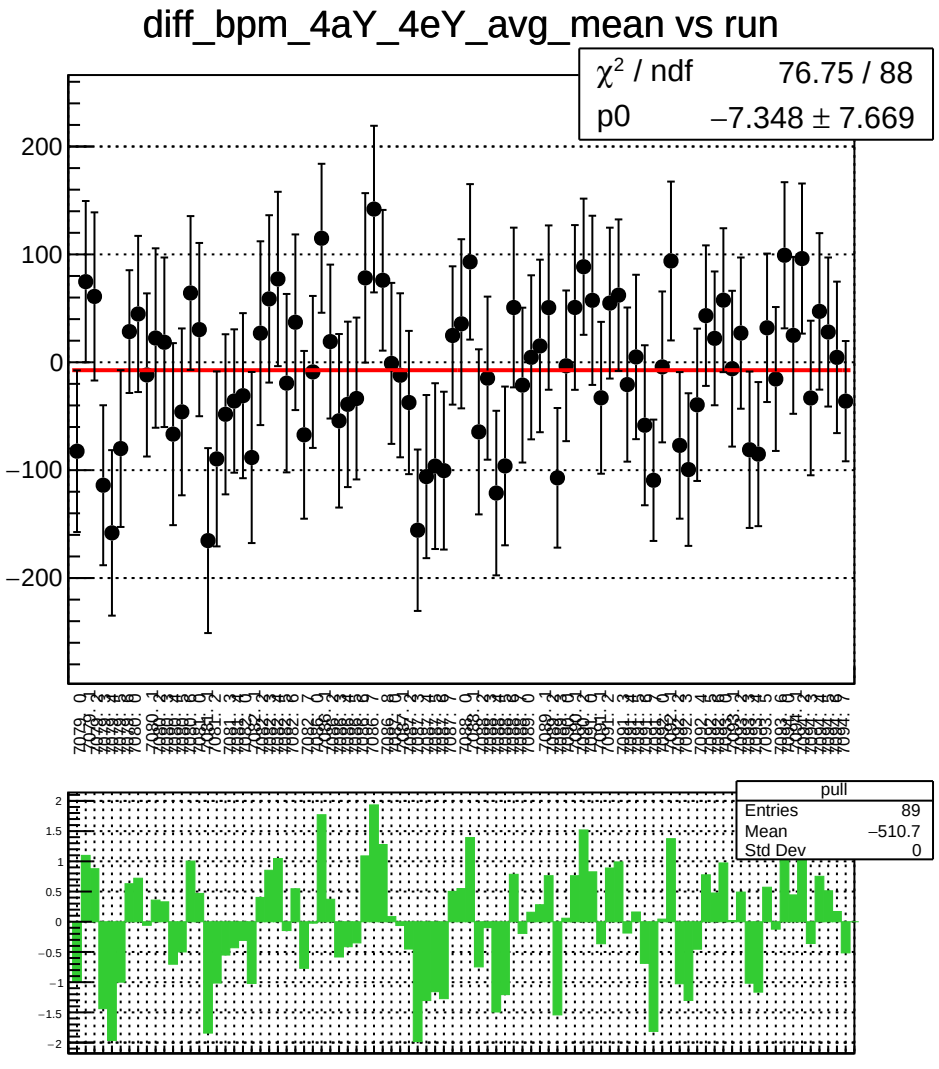

pull1D
Entries 89
Mean −0.005126
Std Dev 0.9666
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

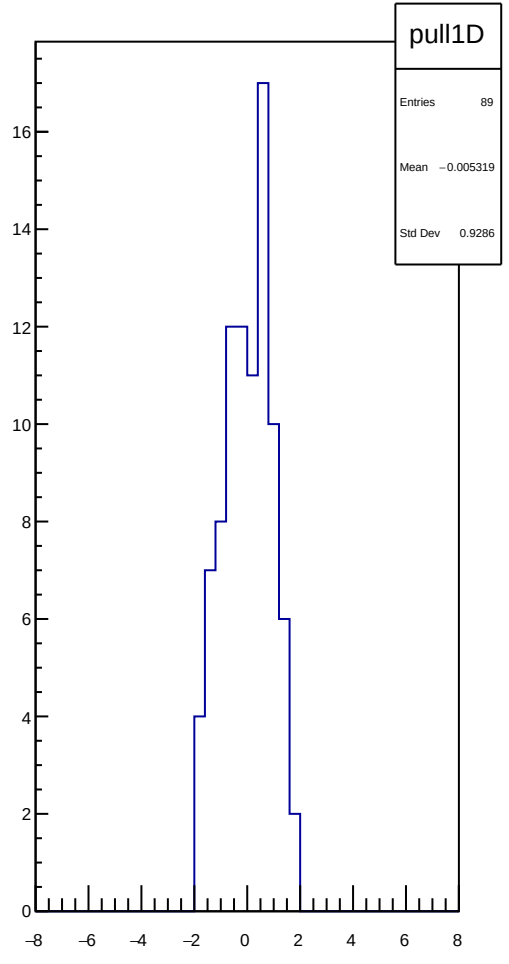

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 5931 / 88
p0 6932 ± 5.348
8000
7500
7000
6500
6000

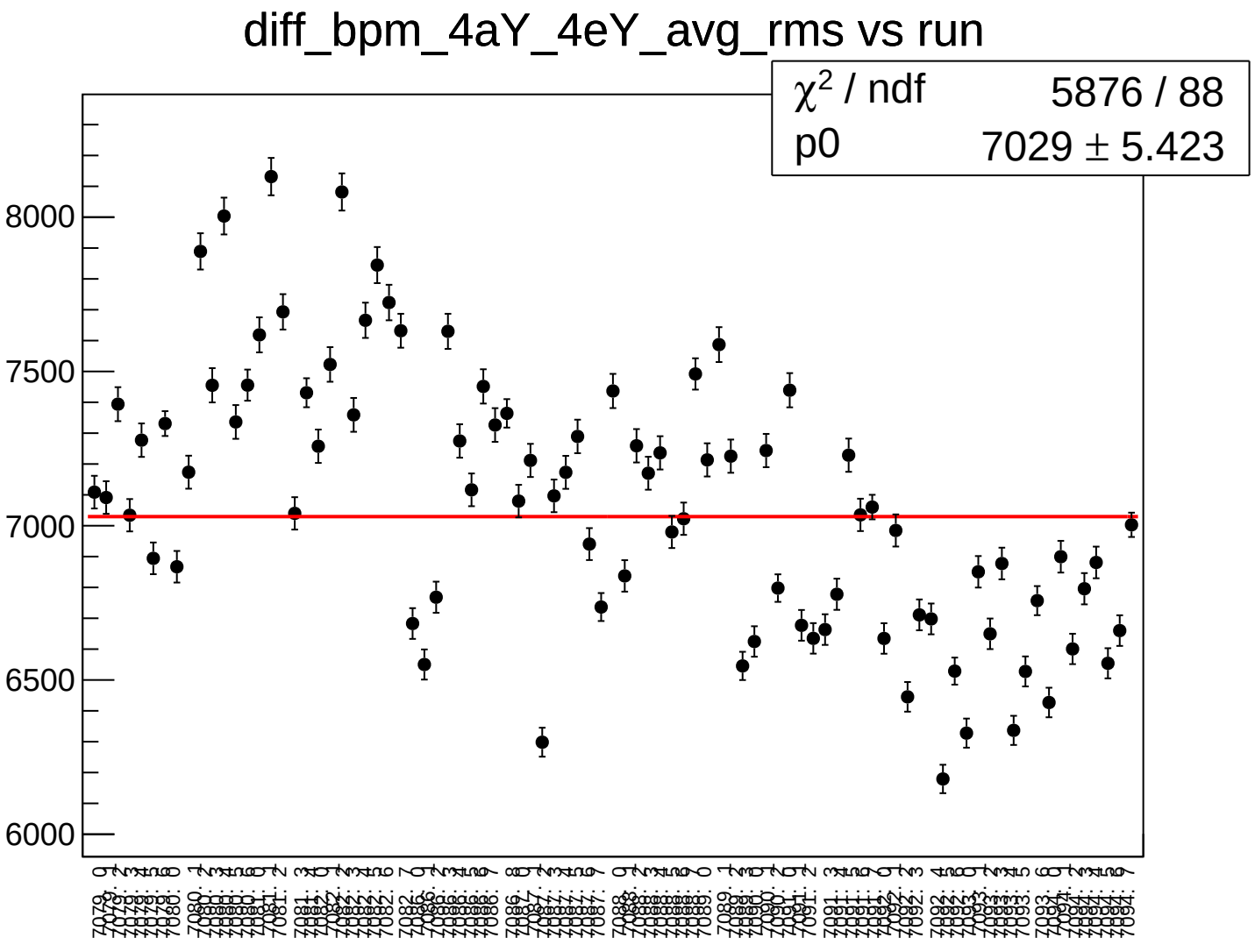

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 91.19 / 88
p0 0.6533 ± 1.058
pull
Entries 89
Mean 2342
Std Dev 0

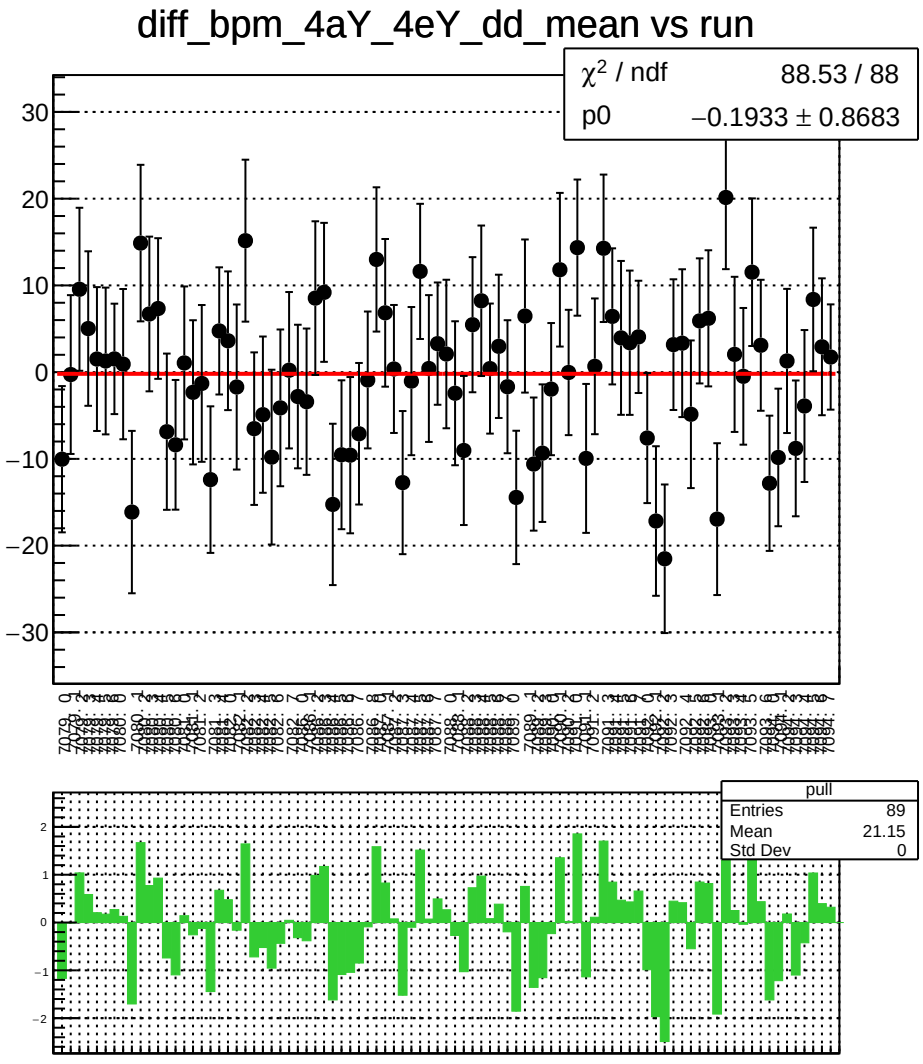

pull1D
Entries 89
Mean −0.001594
Std Dev 1.012

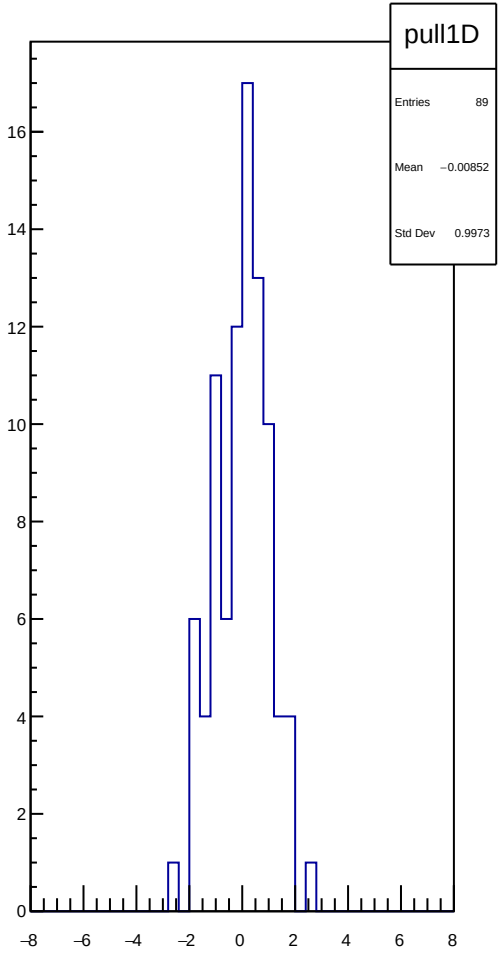

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 322.7 / 88
p0 971.5 ± 0.7482
1020
1010
1000
990
980
970
960
950
940
930

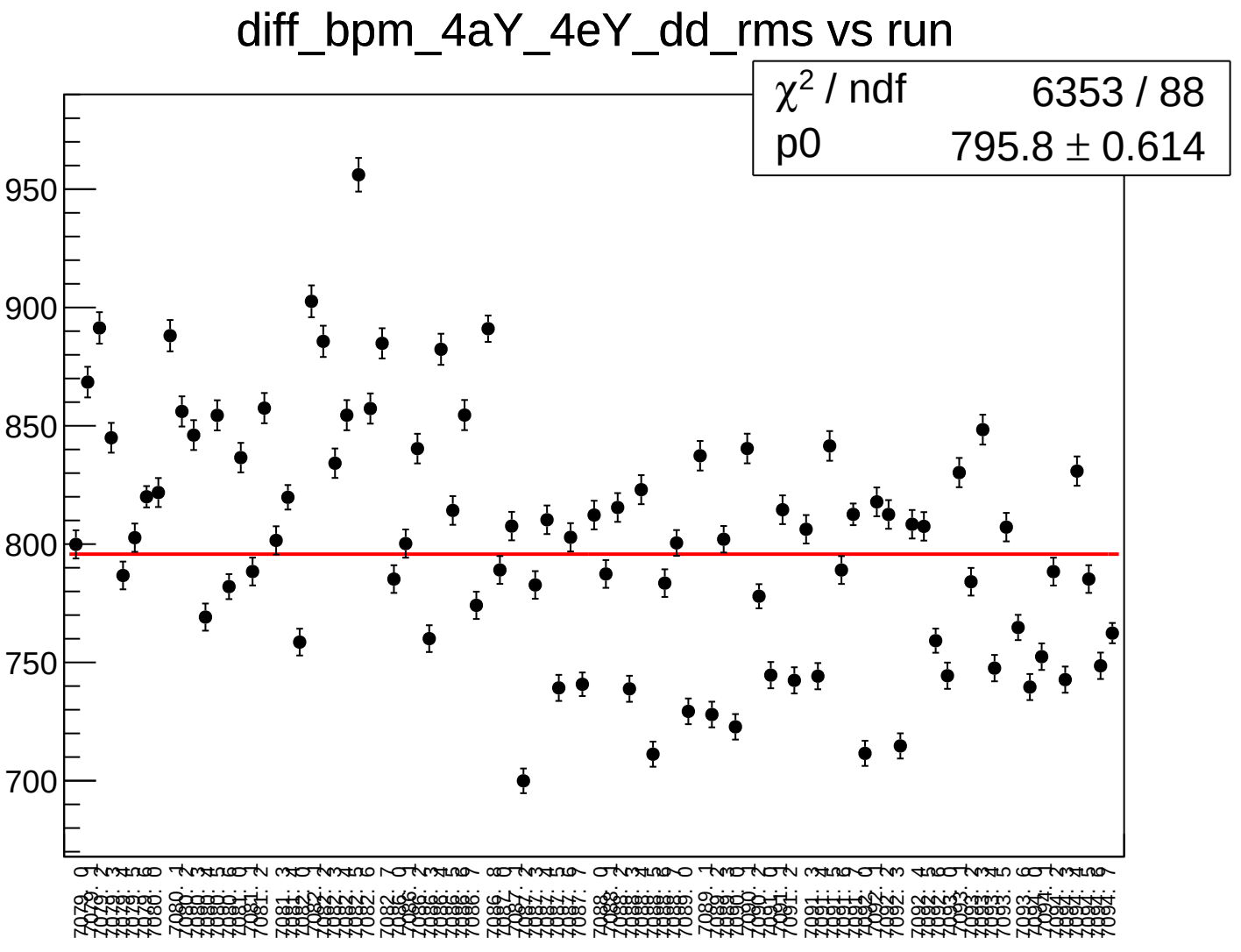

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 76.75 / 88
p0 −7.348 ± 7.669
200
100
0
−100
−200
pull
Entries 89
Mean −510.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

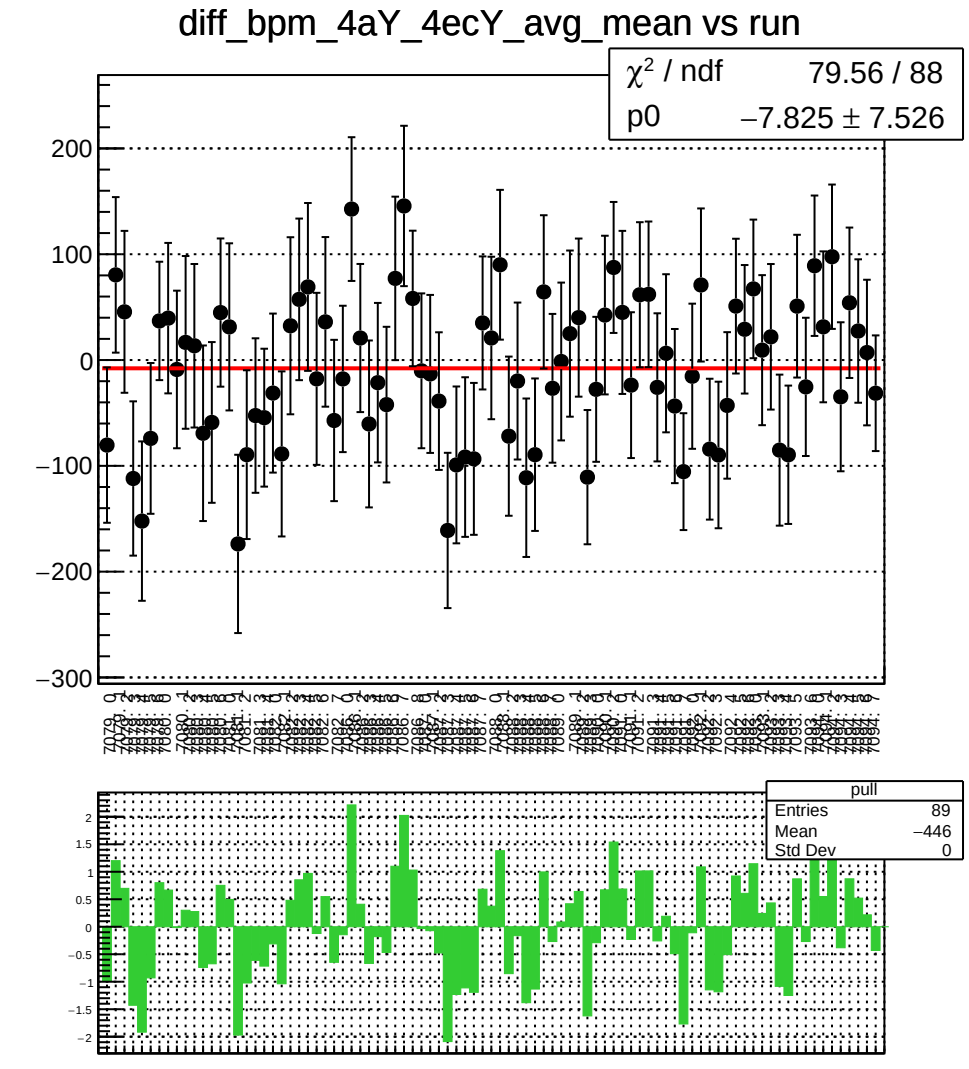

pull1D
Entries 89
Mean −0.005319
Std Dev 0.9286
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

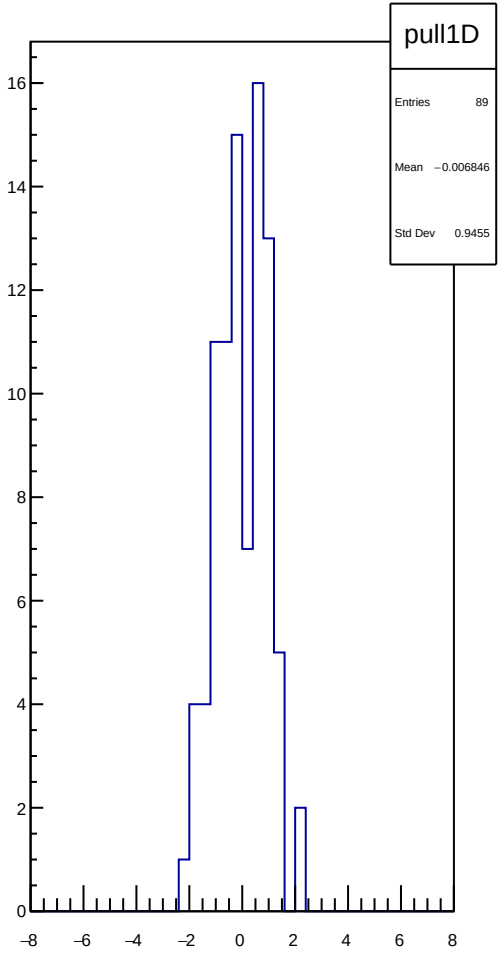

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 5876 / 88
p0 7029 ± 5.423
8000
7500
7000
6500
6000

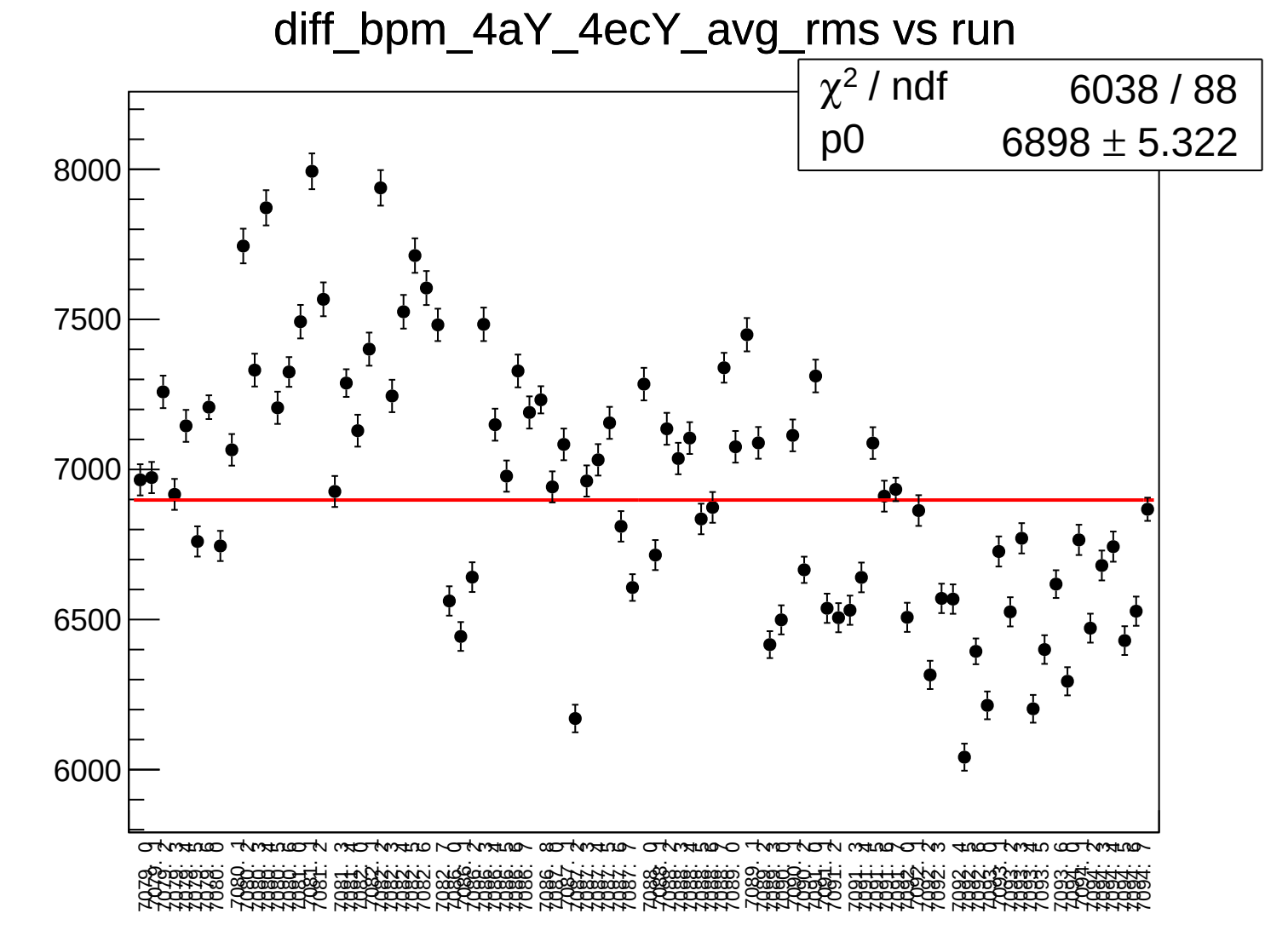

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 88.53 / 88
p0 −0.1933 ± 0.8683
pull
Entries 89
Mean 21.15
Std Dev 0

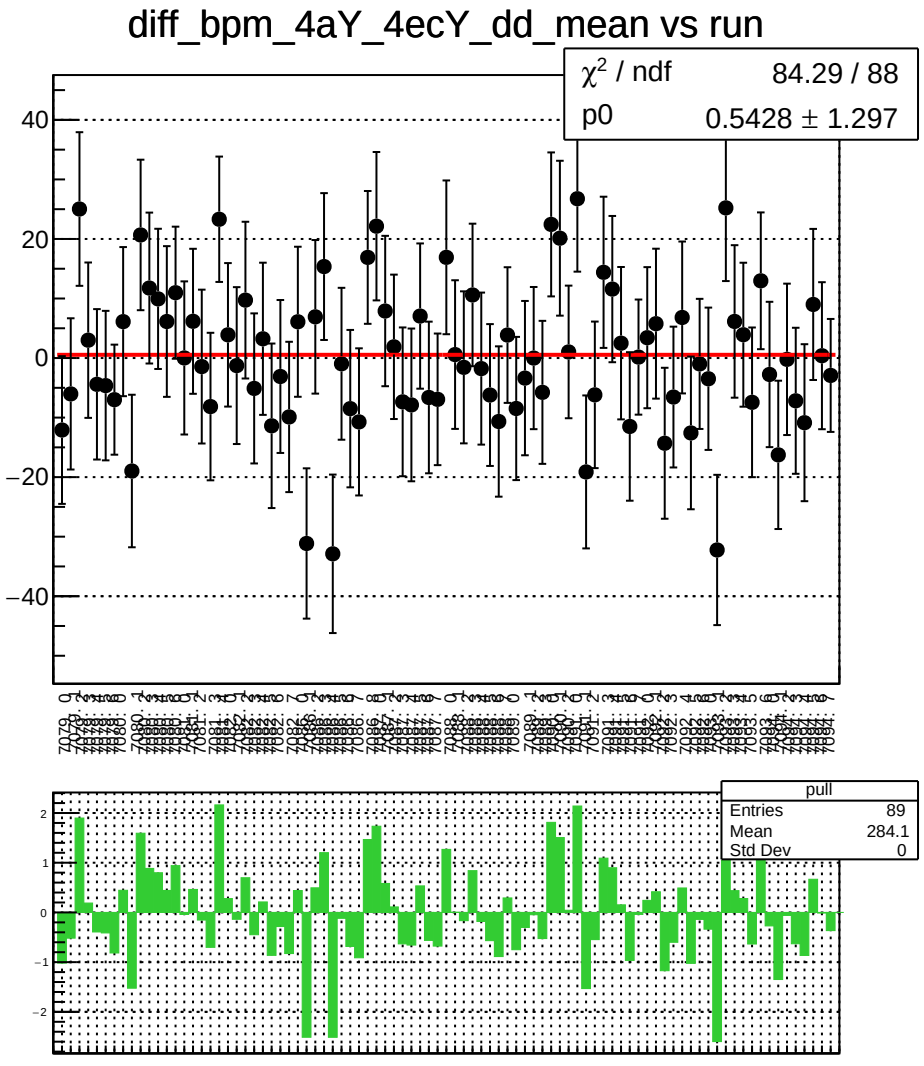

pull1D
Entries 89
Mean −0.00852
Std Dev 0.9973

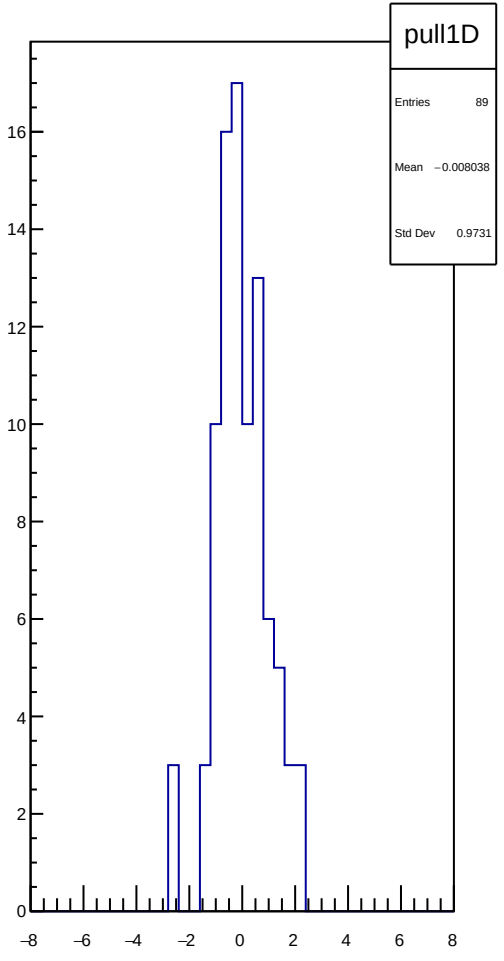

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 6353 / 88
p0 795.8 ± 0.614
950
900
850
800
750
700

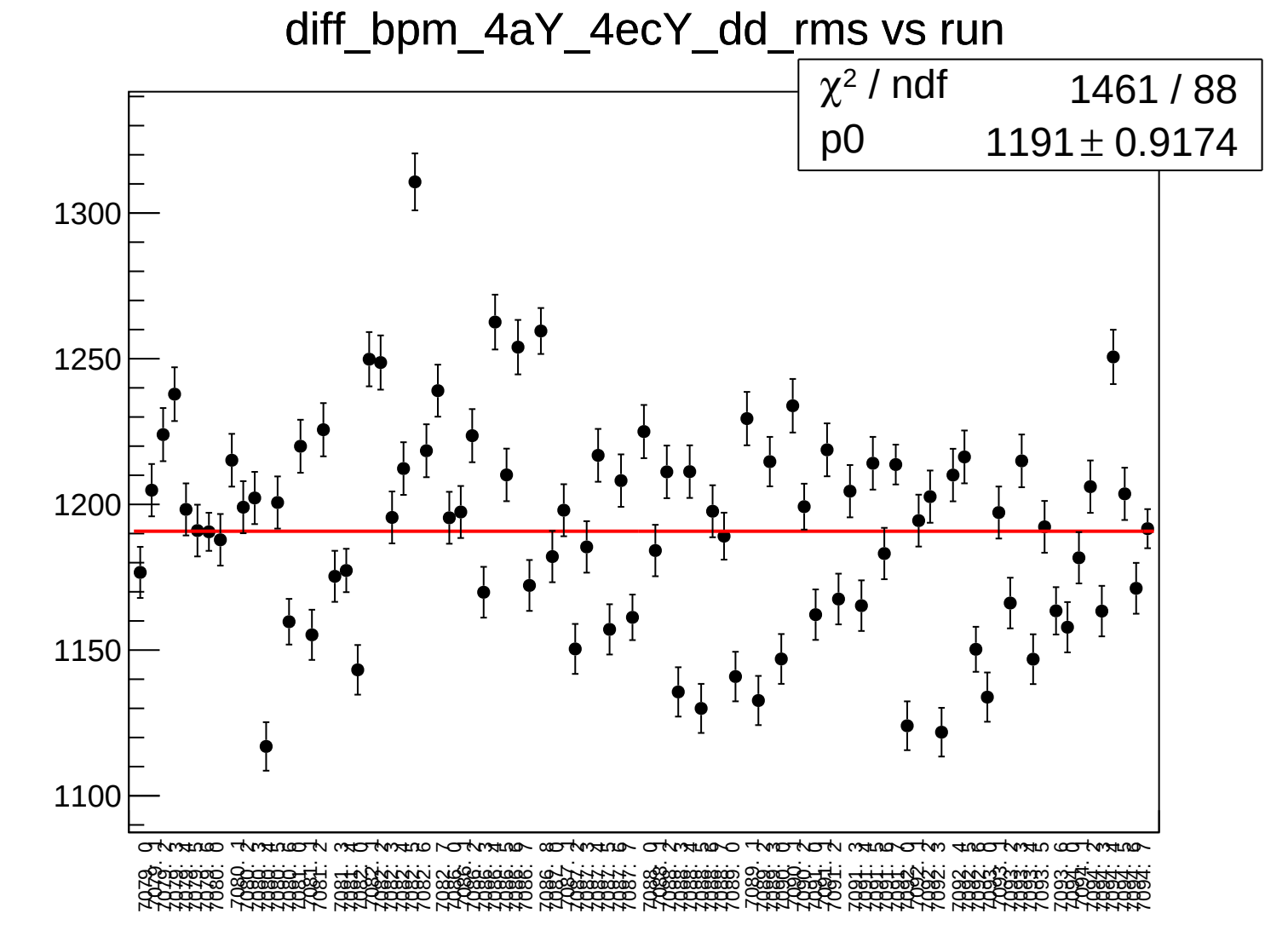

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 79.56 / 88
p0 −7.825 ± 7.526
pull
Entries 89
Mean −446
Std Dev 0

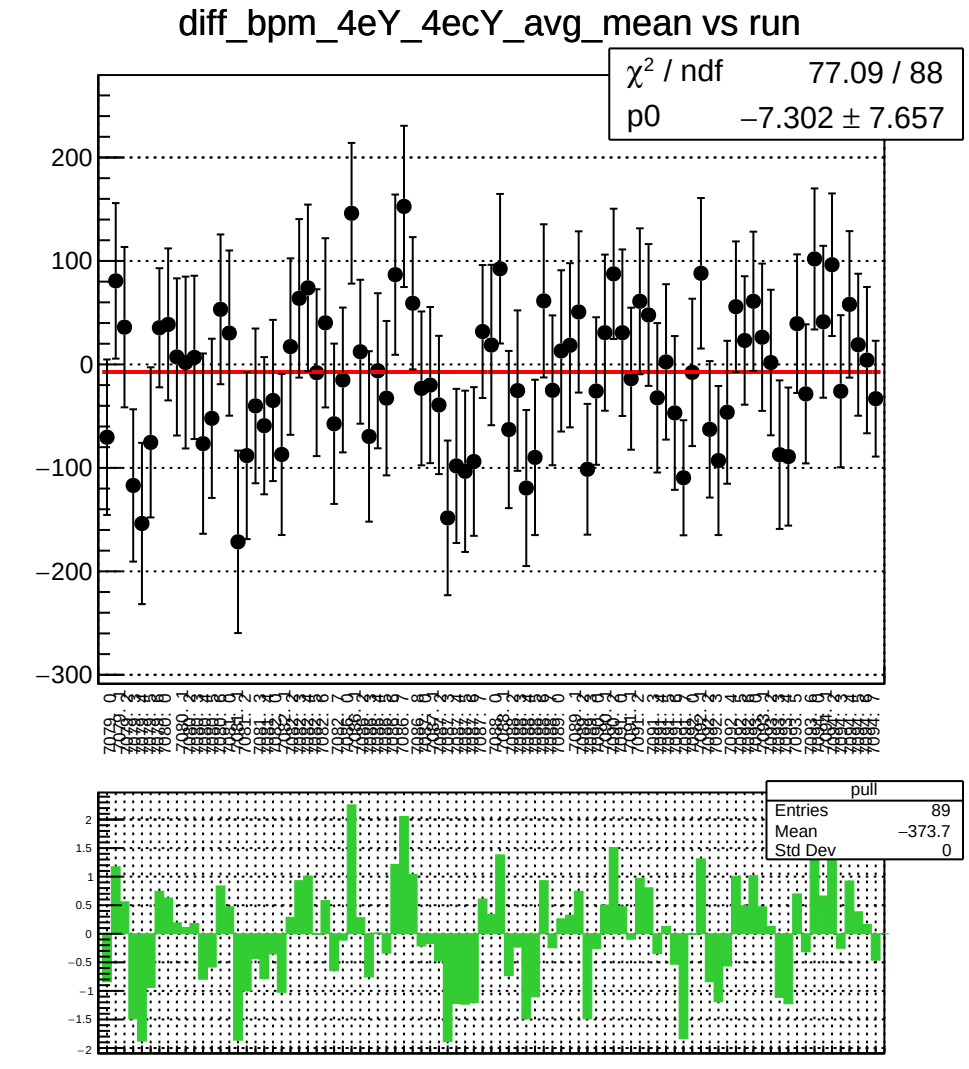

pull1D
Entries 89
Mean −0.006846
Std Dev 0.9455

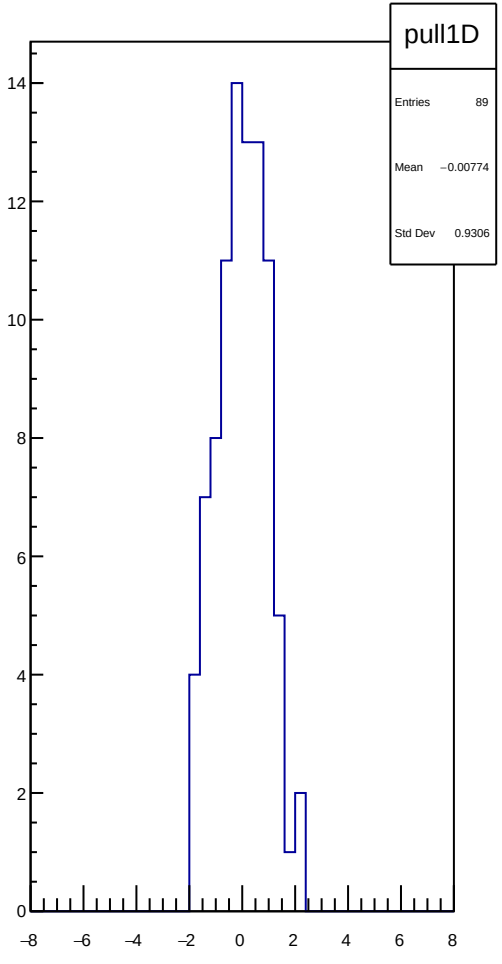

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 6038 / 88
p0 6898 ± 5.322
8000
7500
7000
6500
6000

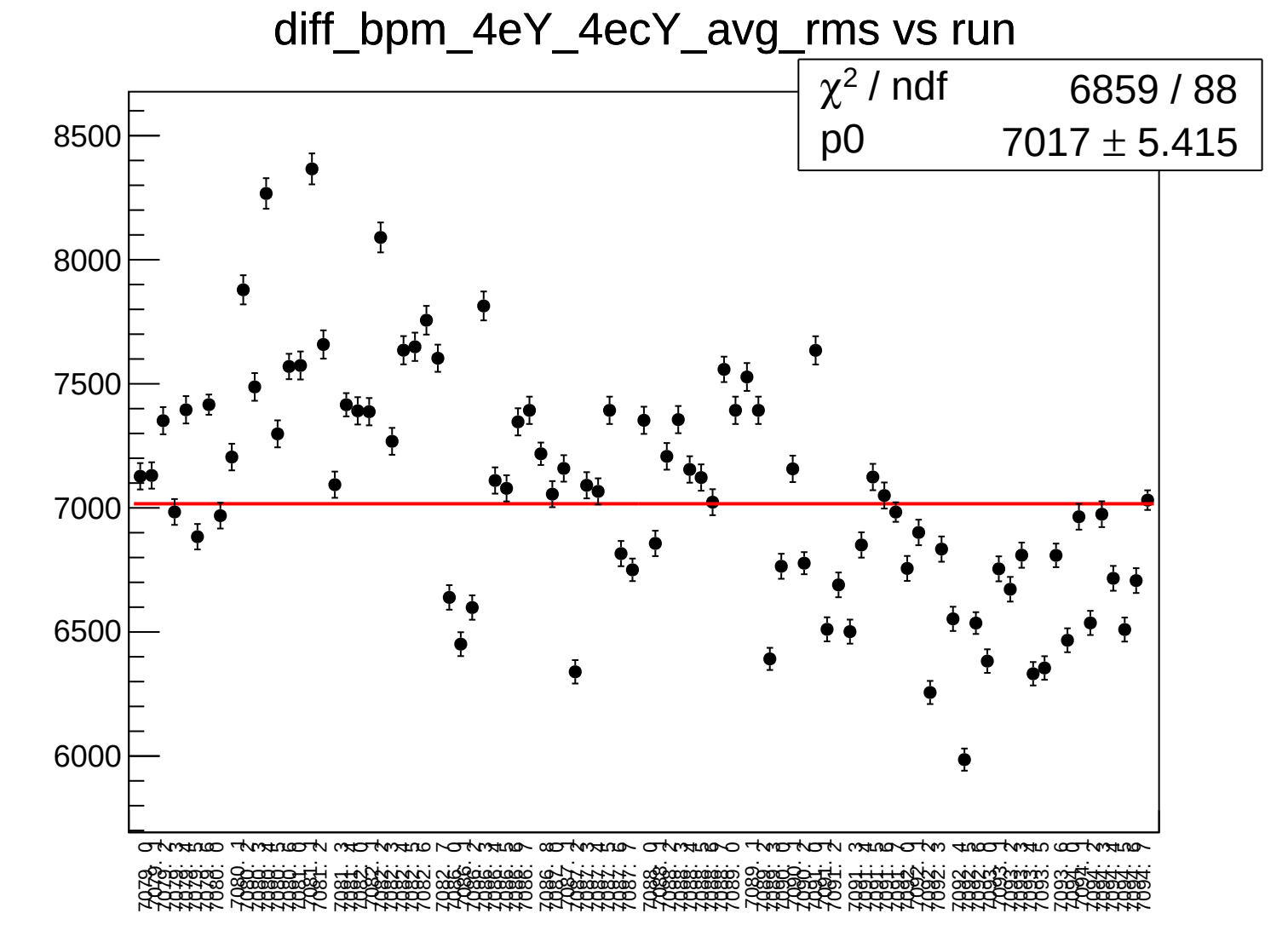

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 84.29 / 88
p0 0.5428 ± 1.297
pull
Entries 89
Mean 284.1
Std Dev 0

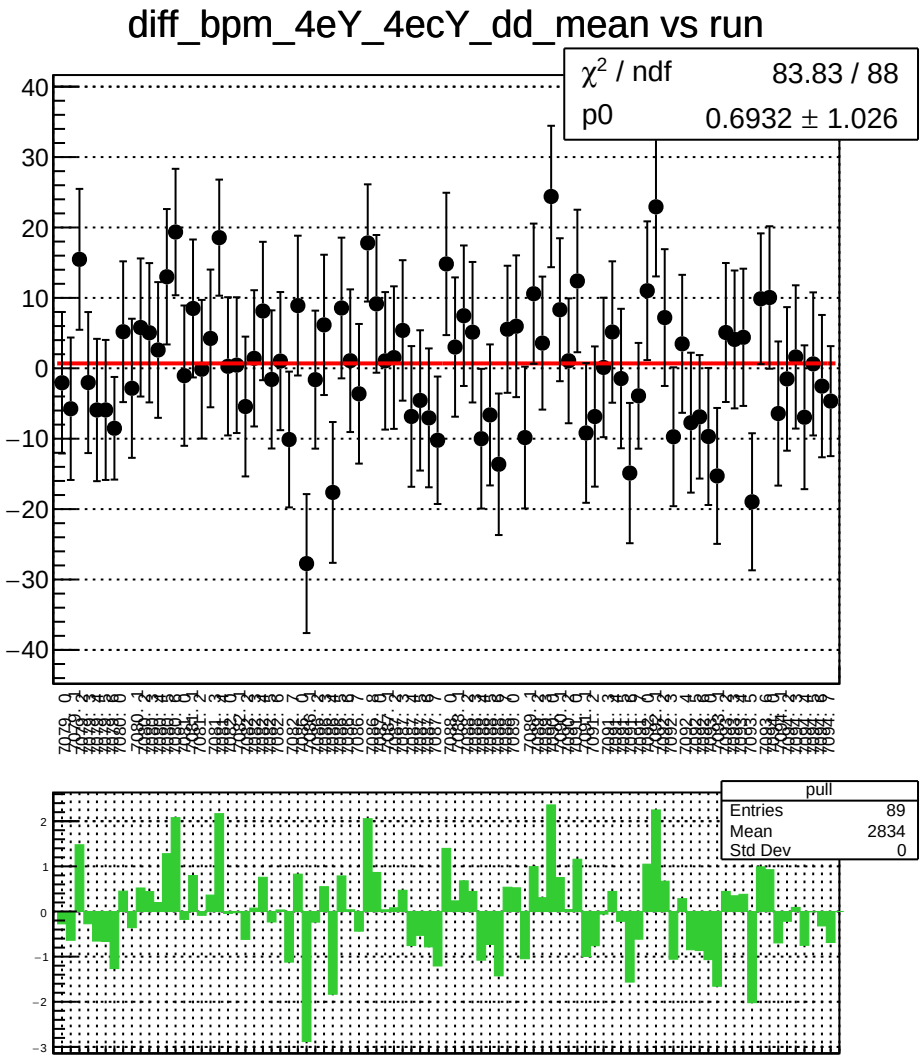

pull1D
Entries 89
Mean −0.008038
Std Dev 0.9731

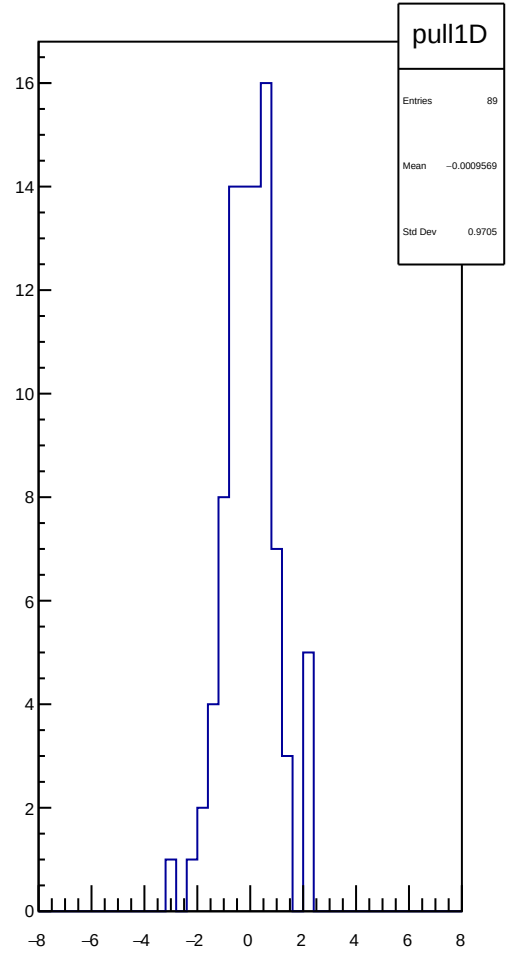

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1461 / 88
p0 1191 ± 0.9174
1300
1250
1200
1150
1100

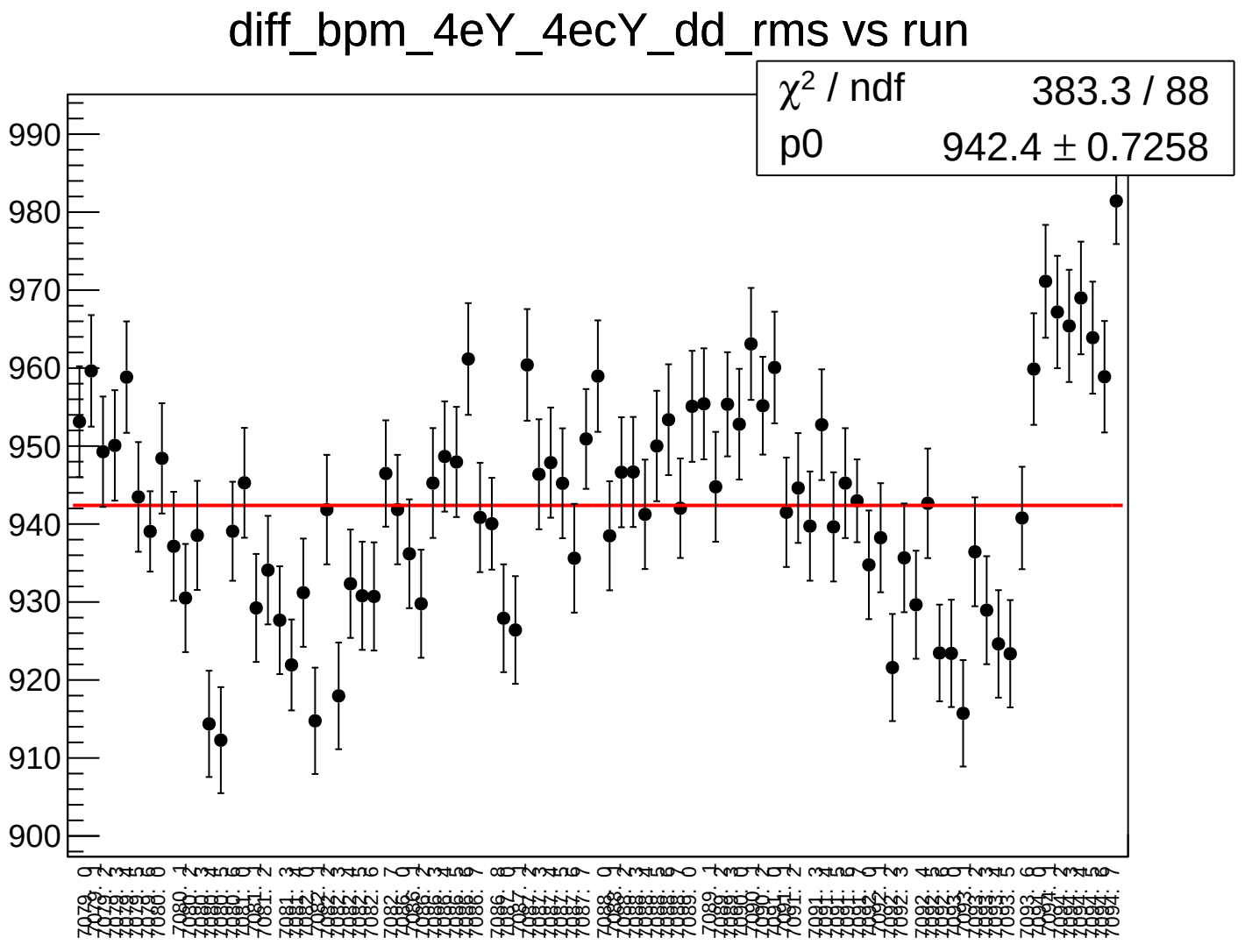

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 77.09 / 88
p0 −7.302 ± 7.657
pull
Entries 89
Mean −373.7
Std Dev 0

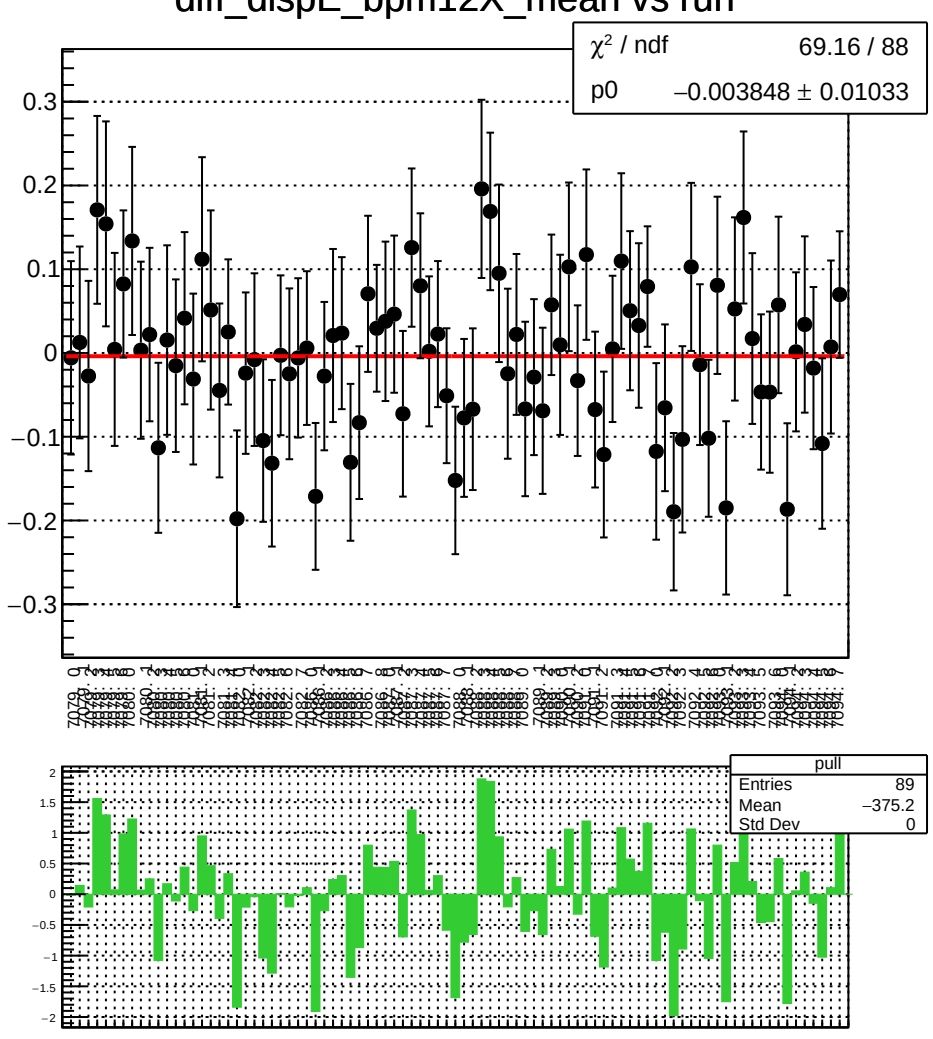

pull1D
Entries 89
Mean −0.00774
Std Dev 0.9306

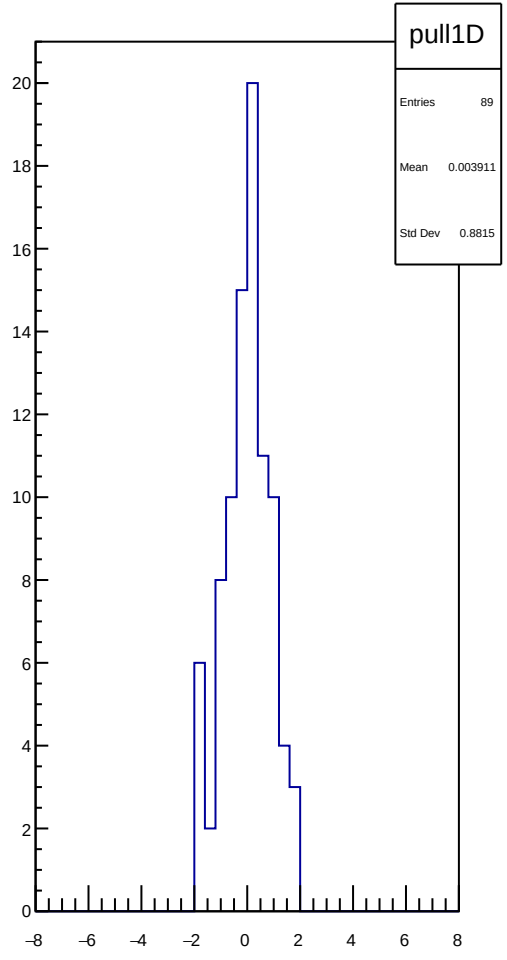

diff_bpm_4eY_4ecY_avg_rms vs run
χ^2 / ndf 6859 / 88
p0 7017 ± 5.415
8500
8000
7500
7000
6500
6000

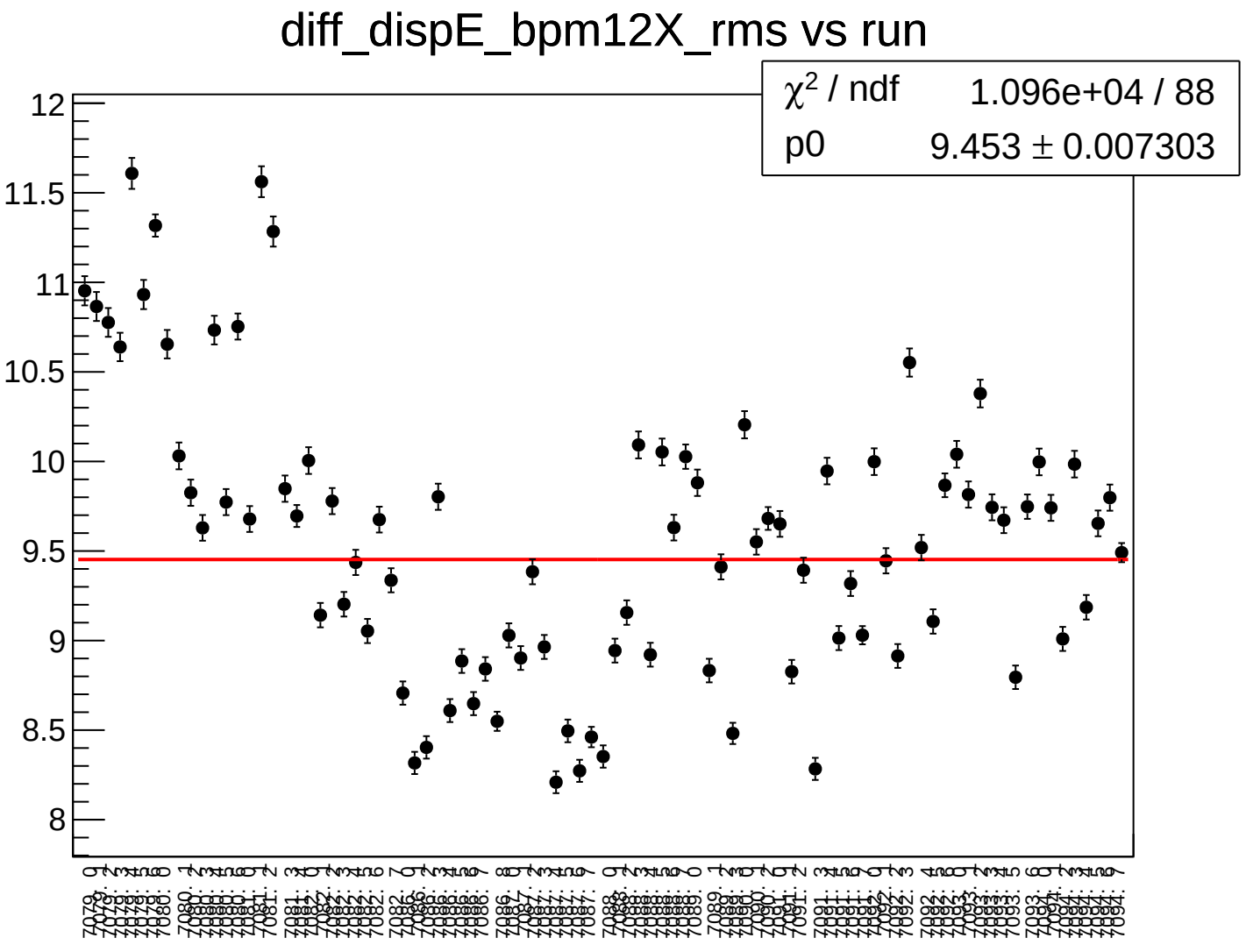

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 83.83 / 88
p0 0.6932 ± 1.026
pull
Entries 89
Mean 2834
Std Dev 0

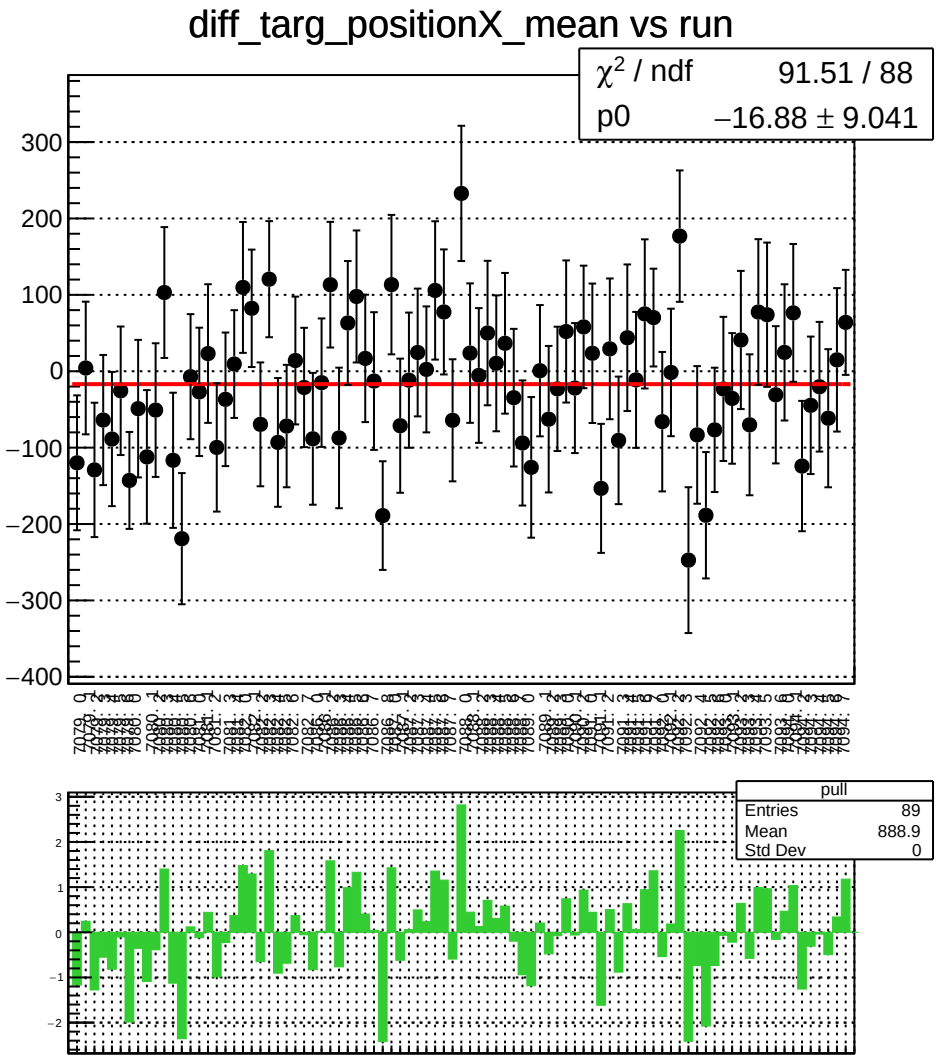

pull1D
Entries 89
Mean −0.0009569
Std Dev 0.9705

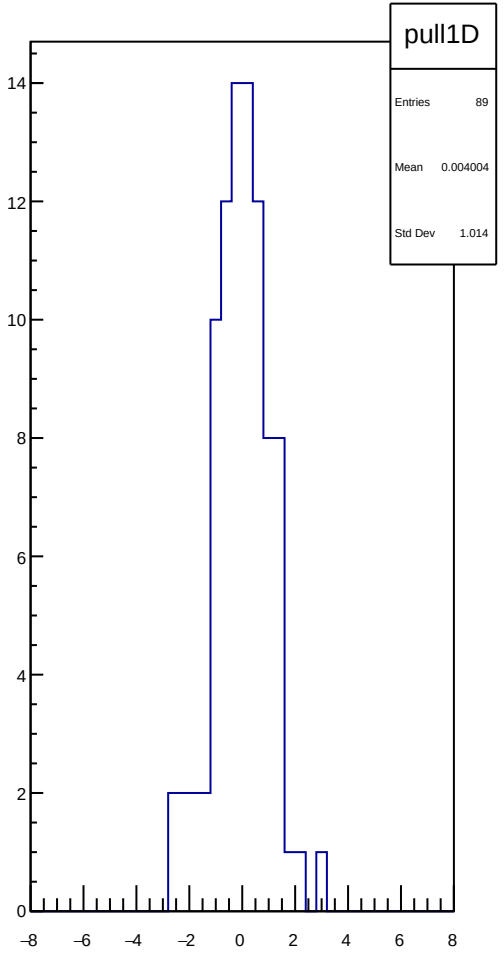

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 383.3 / 88
p0 942.4 ± 0.7258
990
980
970
960
950
940
930
920
910
900

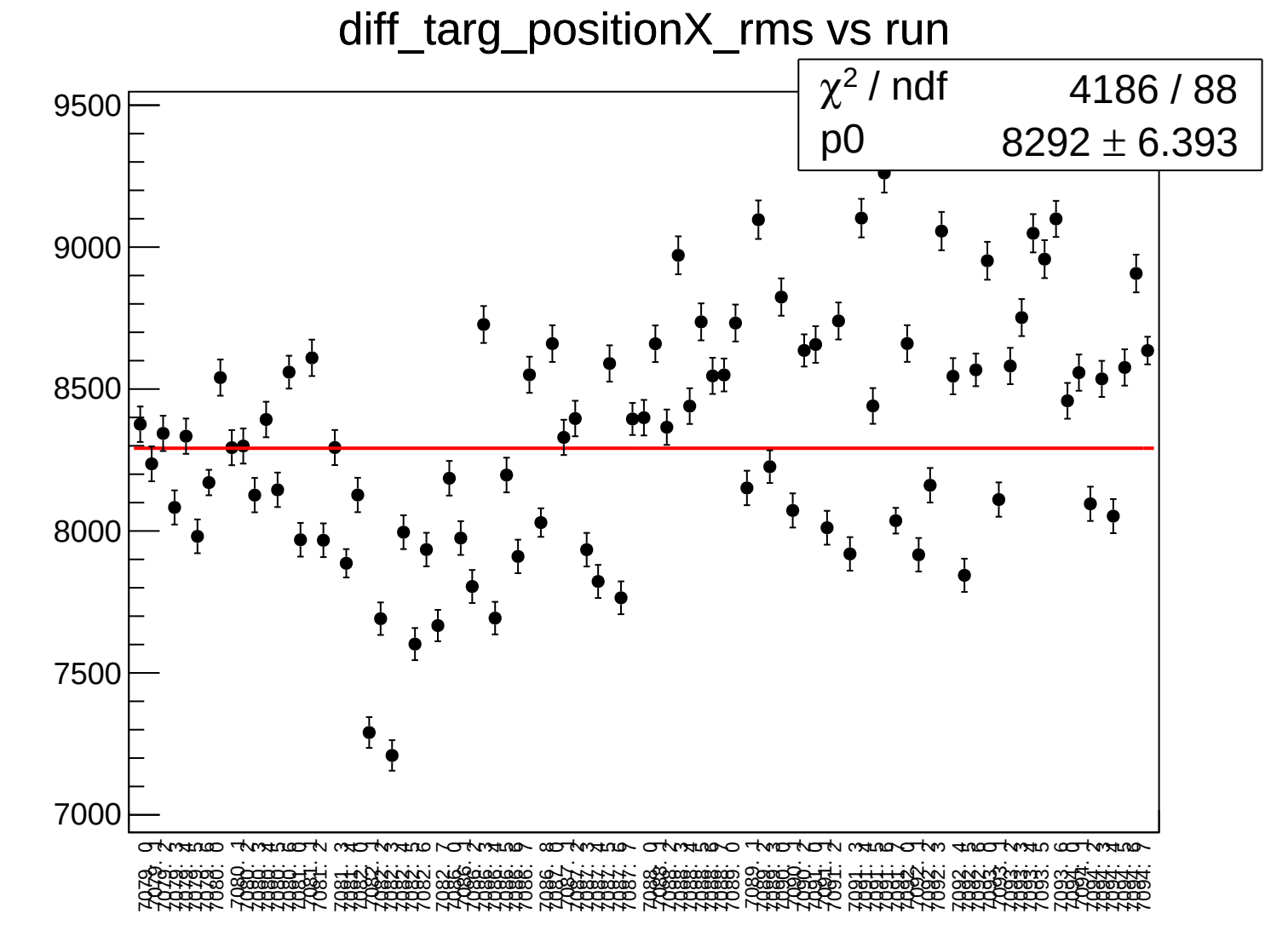

diff_dispE_bpm12X_mean vs run
χ² / ndf 69.16 / 88
p0 −0.003848 ± 0.01033
pull
Entries 89
Mean −375.2
Std Dev 0

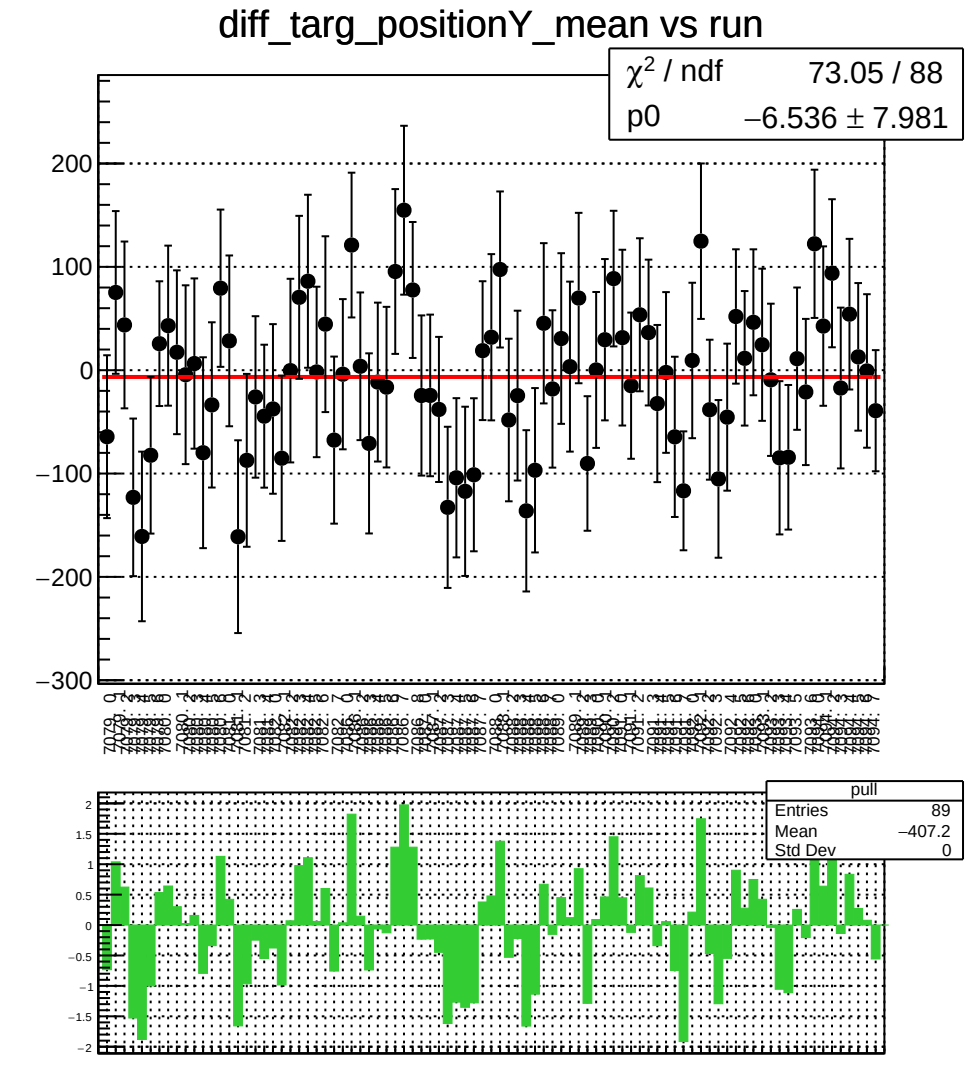

pull1D
Entries 89
Mean 0.003911
Std Dev 0.8815

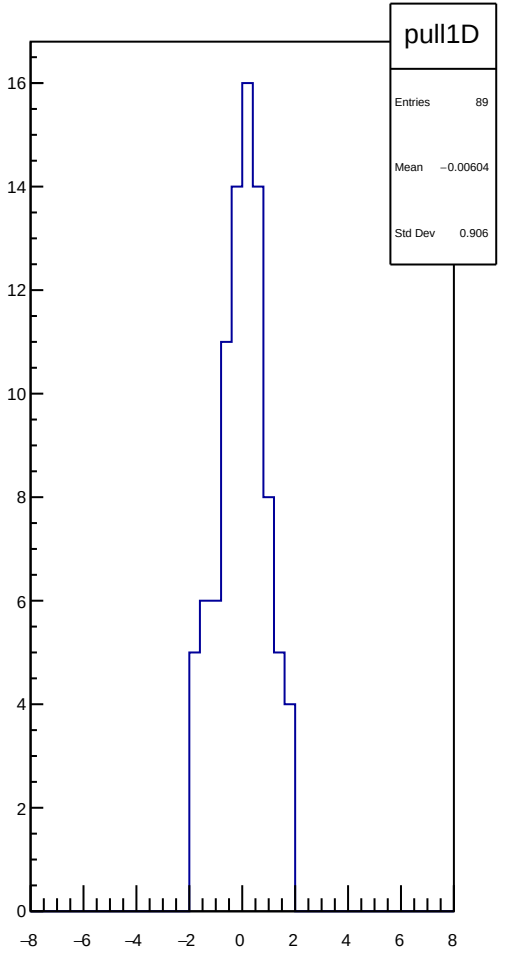

diff_dispE_bpm12X_rms vs run
χ² / ndf 1.096e+04 / 88
p0 9.453 ± 0.007303
12
11.5
11
10.5
10
9.5
9
8.5
8

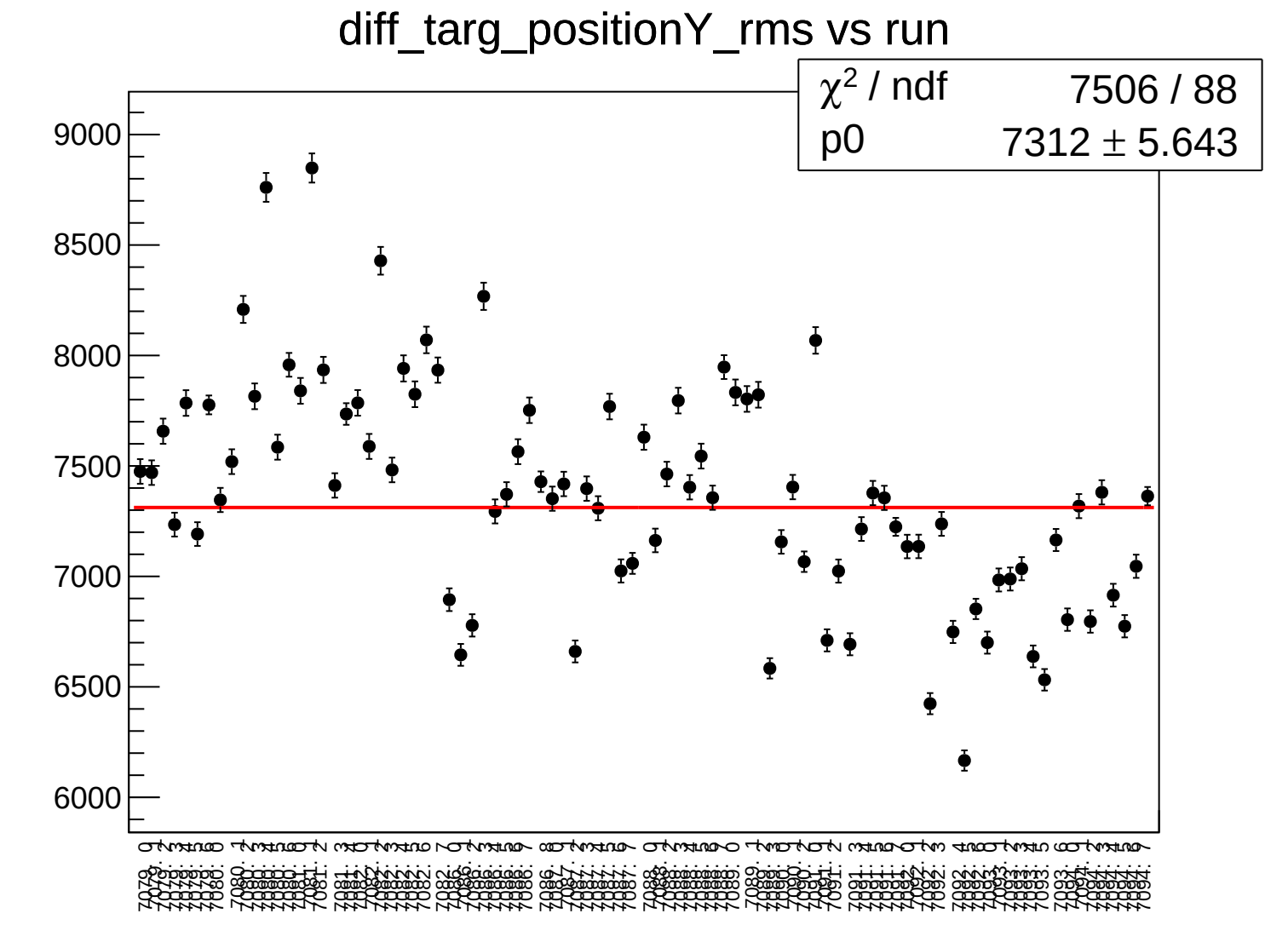

diff_targ_positionX_mean vs run
χ² / ndf 91.51 / 88
p0 −16.88 ± 9.041
pull
Entries 89
Mean 888.9
Std Dev 0

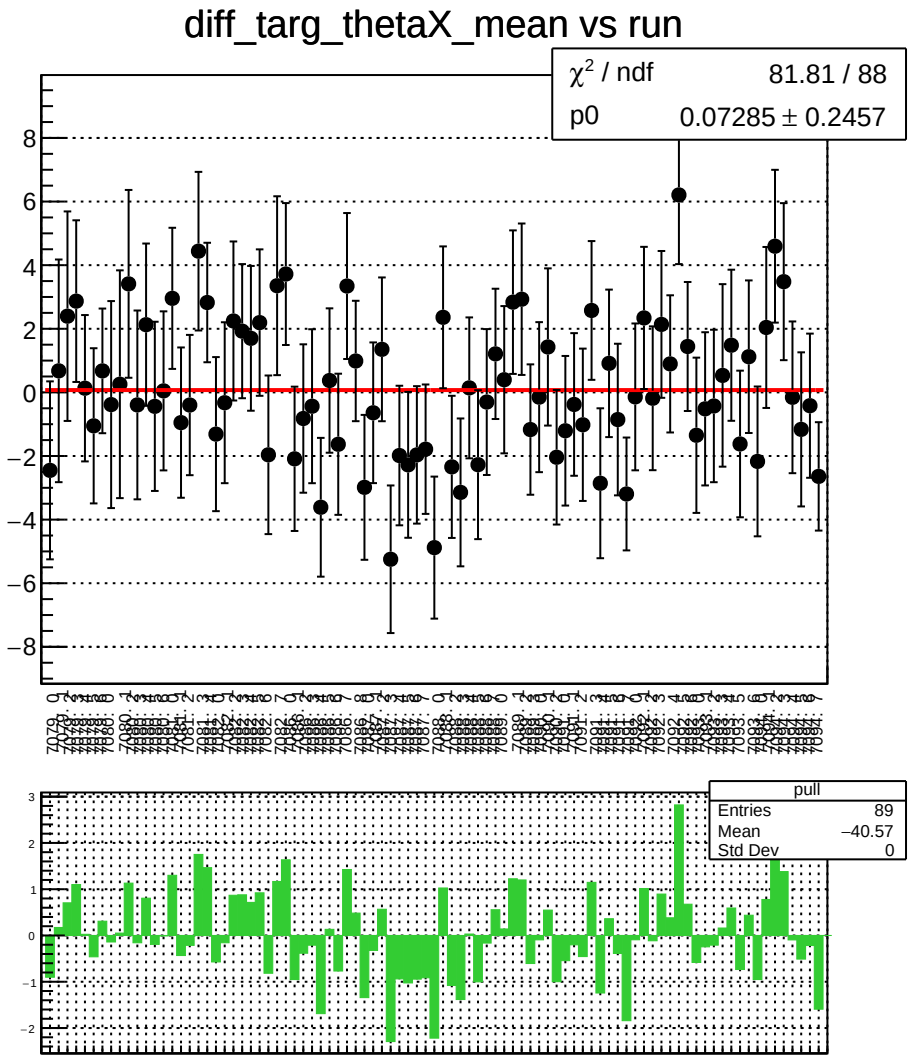

pull1D
Entries 89
Mean 0.004004
Std Dev 1.014

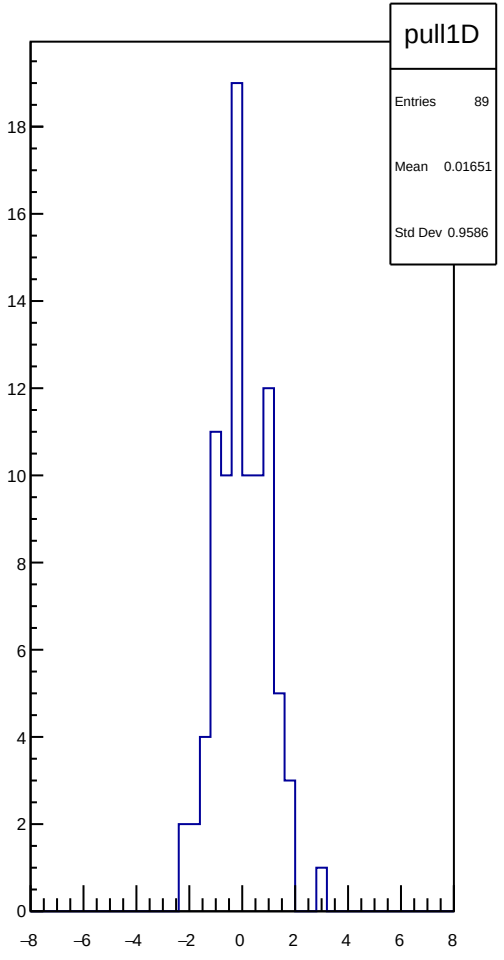

diff_targ_positionX_rms vs run
χ² / ndf 4186 / 88
p0 8292 ± 6.393
9500
9000
8500
8000
7500
7000

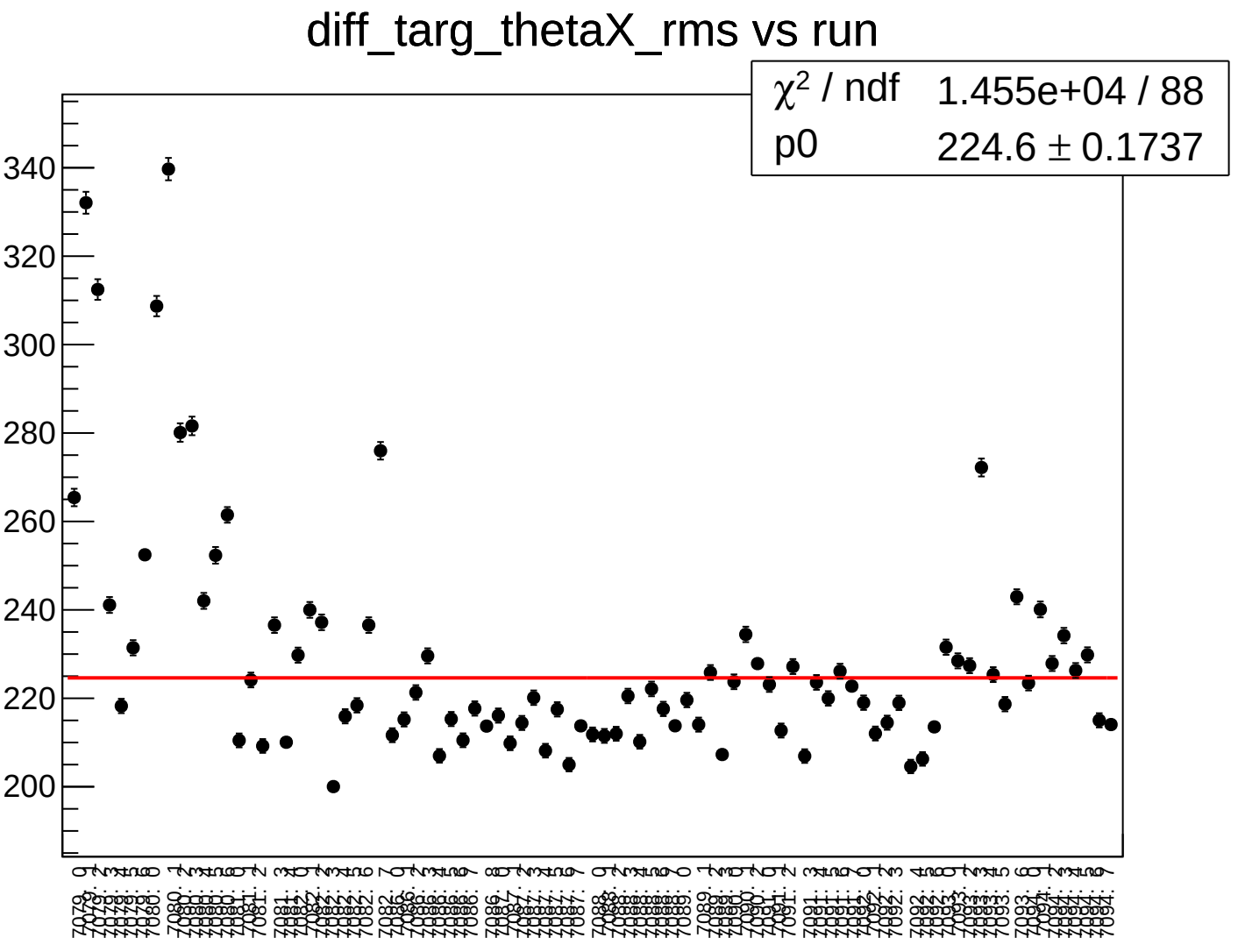

diff_targ_positionY_mean vs run
χ² / ndf 73.05 / 88
p0 −6.536 ± 7.981
pull
Entries 89
Mean −407.2
Std Dev 0

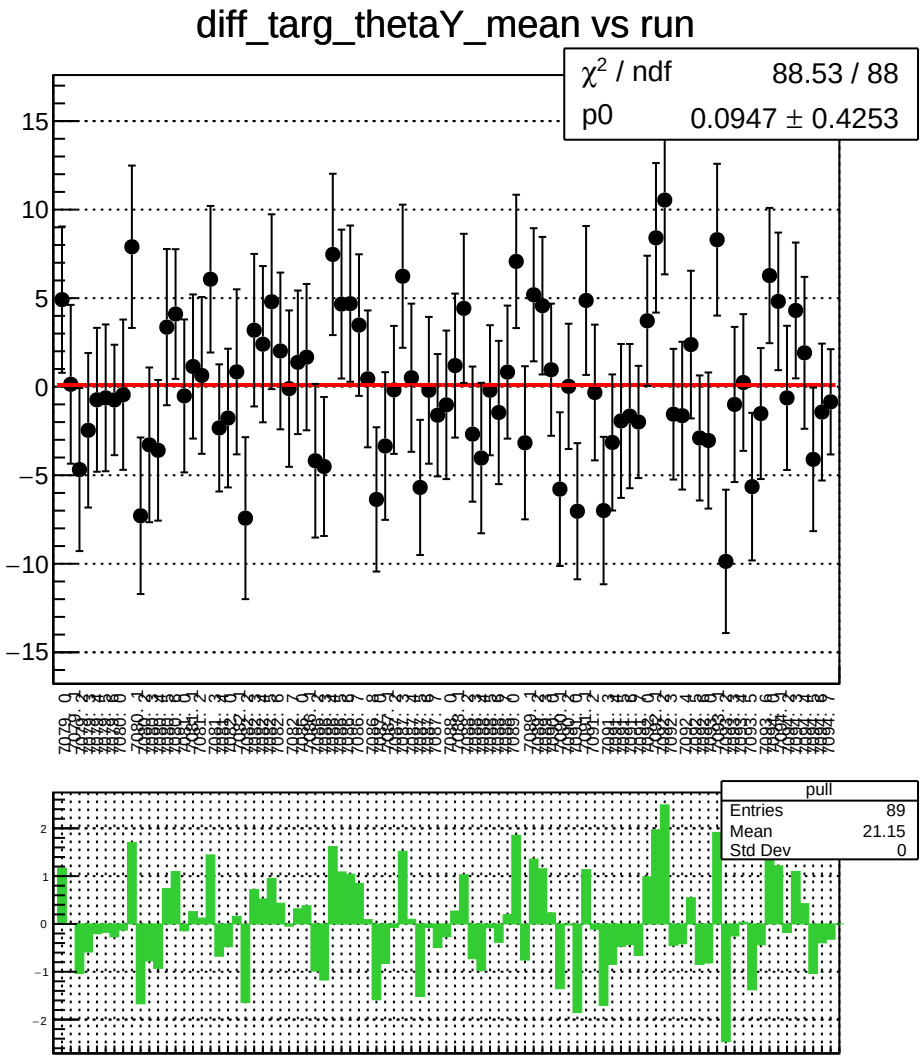

pull1D
Entries 89
Mean −0.00604
Std Dev 0.906

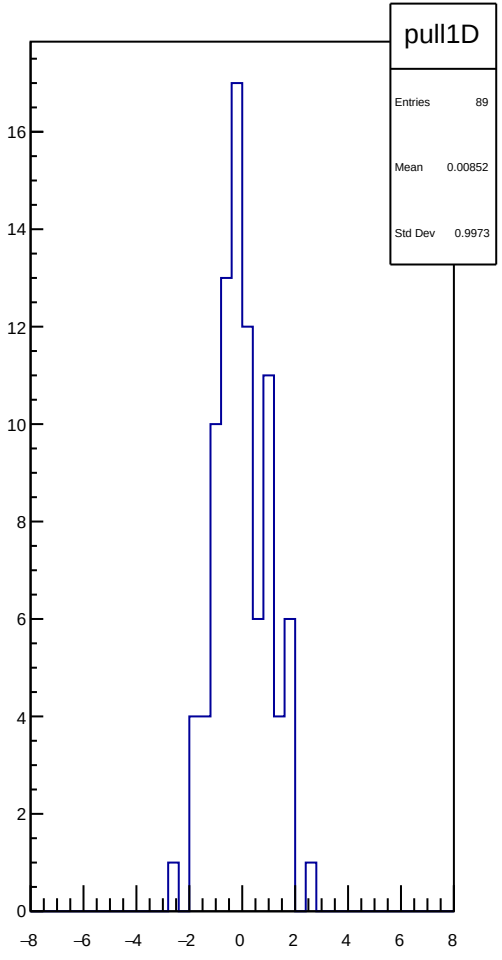

diff_targ_positionY_rms vs run
χ² / ndf 7506 / 88
p0 7312 ± 5.643
9000
8500
8000
7500
7000
6500
6000

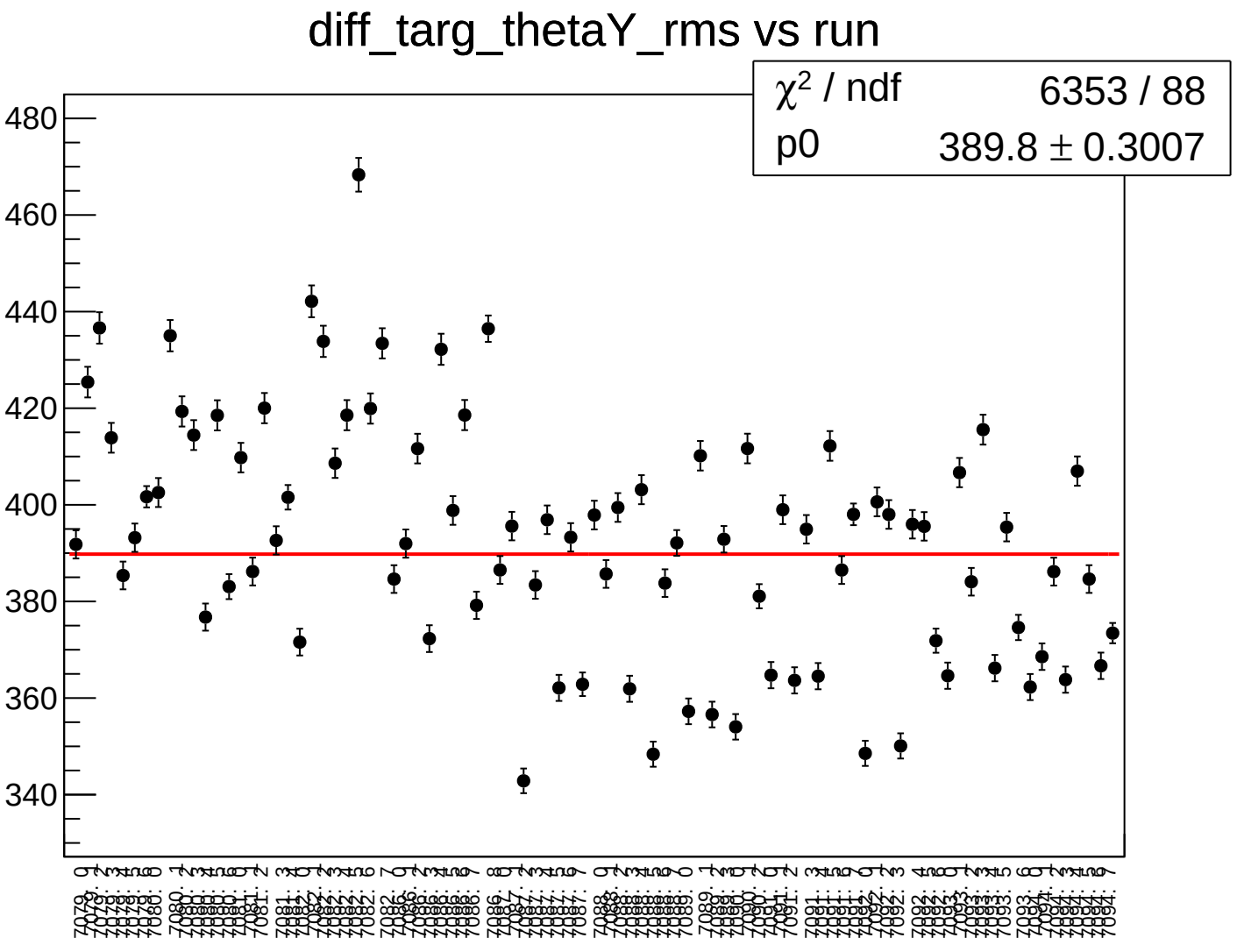

diff_targ_thetaX_mean vs run
χ² / ndf 81.81 / 88
p0 0.07285 ± 0.2457
pull
Entries 89
Mean −40.57
Std Dev 0

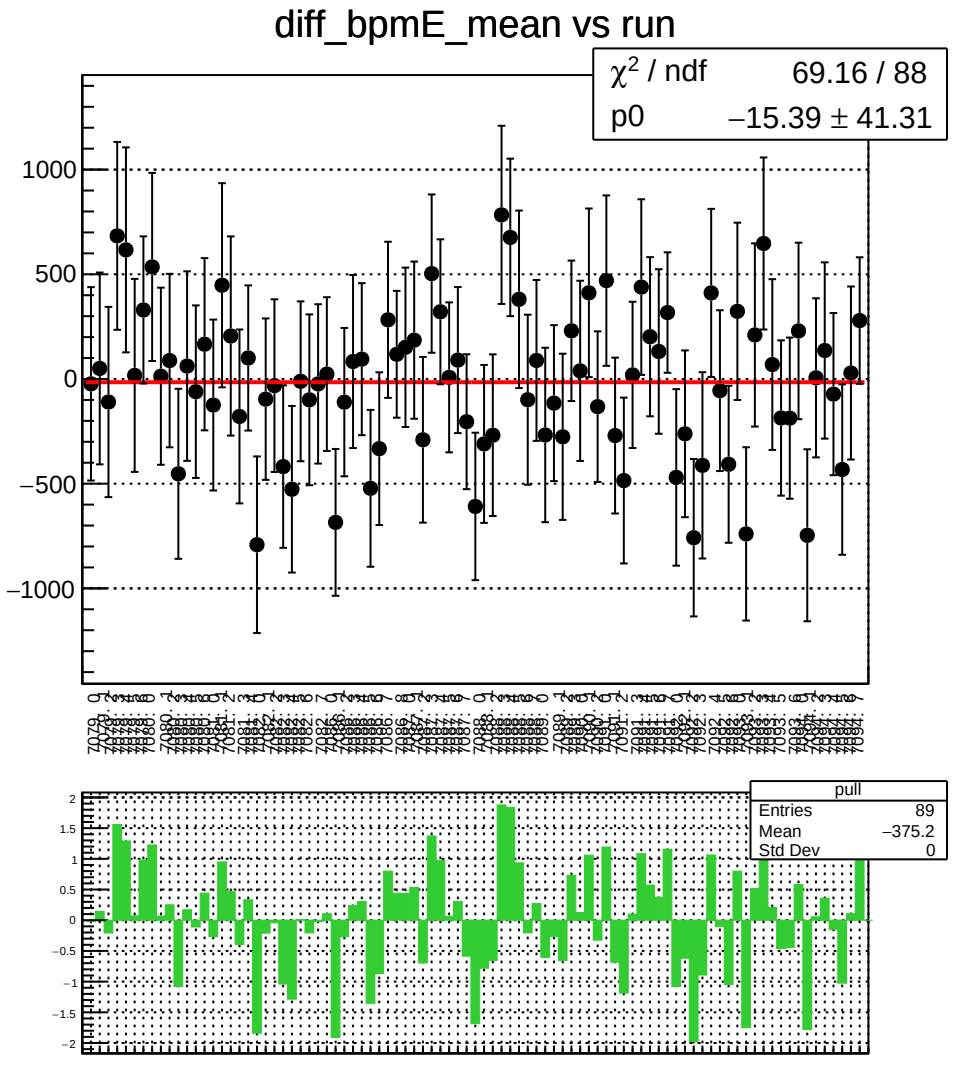

pull1D
Entries 89
Mean 0.01651
Std Dev 0.9586

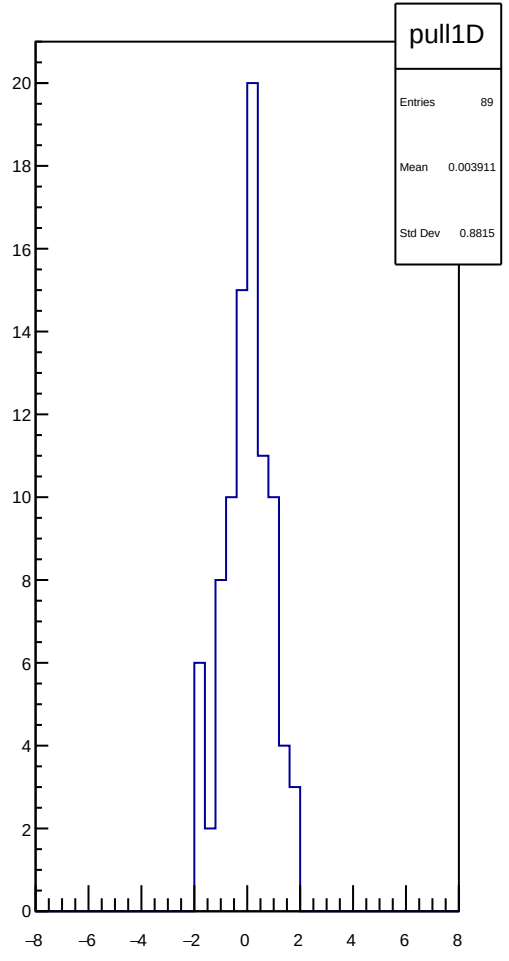

diff_targ_thetaX_rms vs run
χ² / ndf 1.455e+04 / 88
p0 224.6 ± 0.1737
340
320
300
280
260
240
220
200

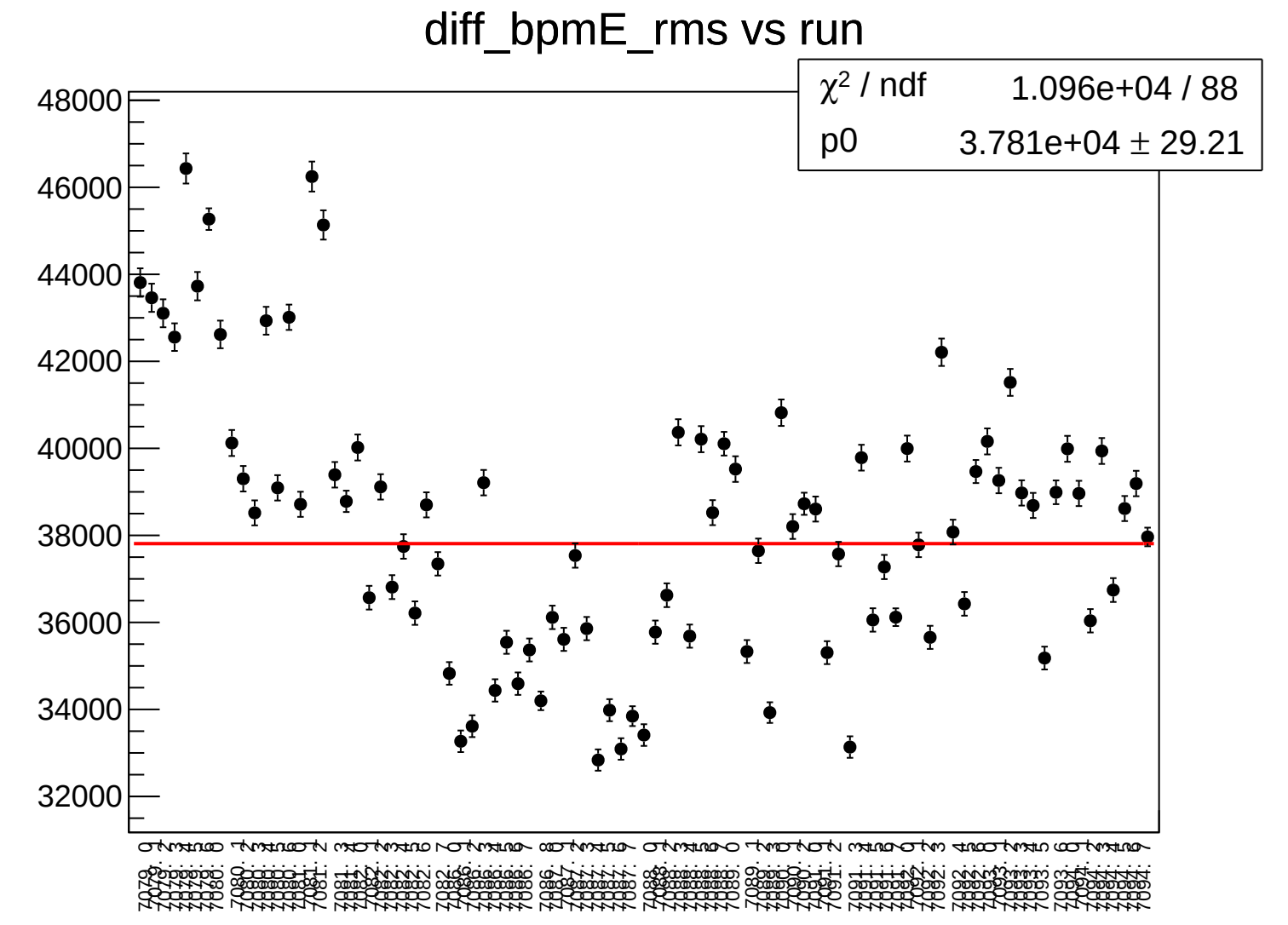

diff_targ_thetaY_mean vs run
χ² / ndf 88.53 / 88
p0 0.0947 ± 0.4253
pull
Entries 89
Mean 21.15
Std Dev 0

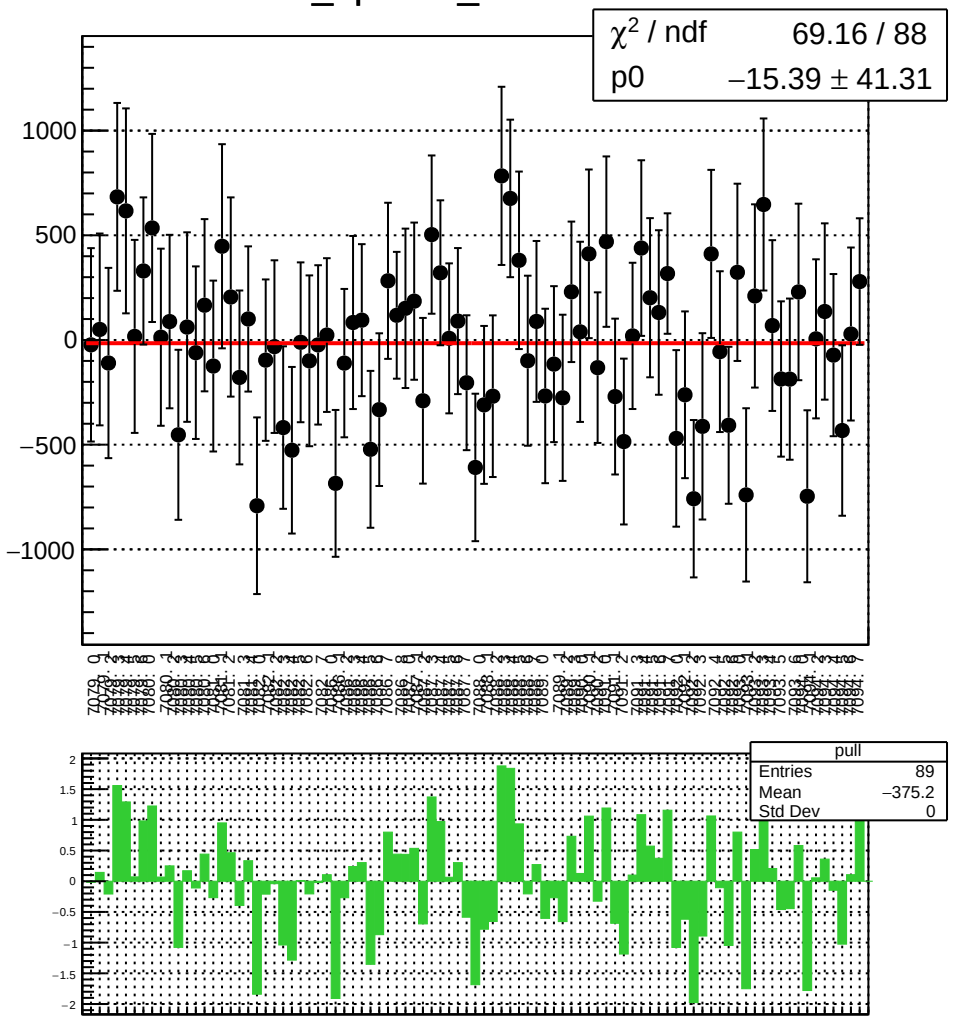

pull1D
Entries 89
Mean 0.00852
Std Dev 0.9973

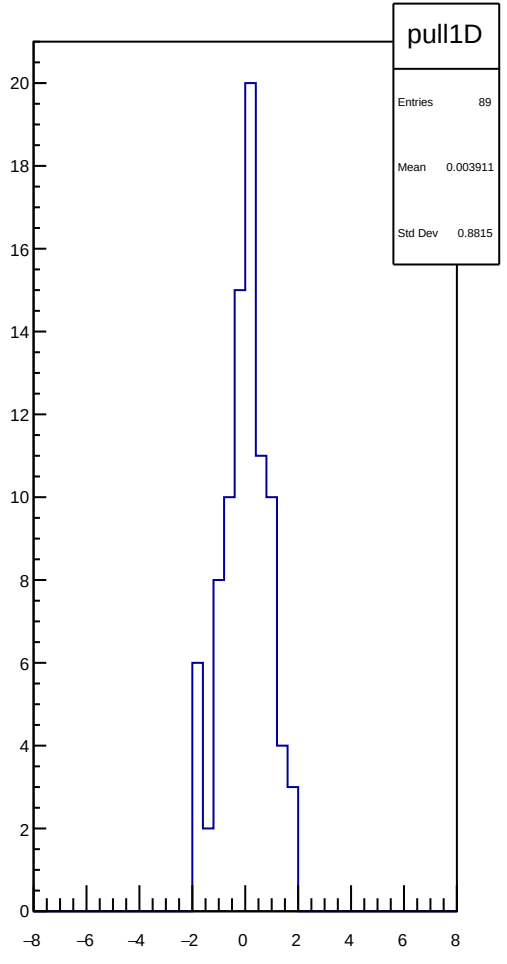

diff_targ_thetaY_rms vs run
χ² / ndf 6353 / 88
p0 389.8 ± 0.3007
480
460
440
420
400
380
360
340

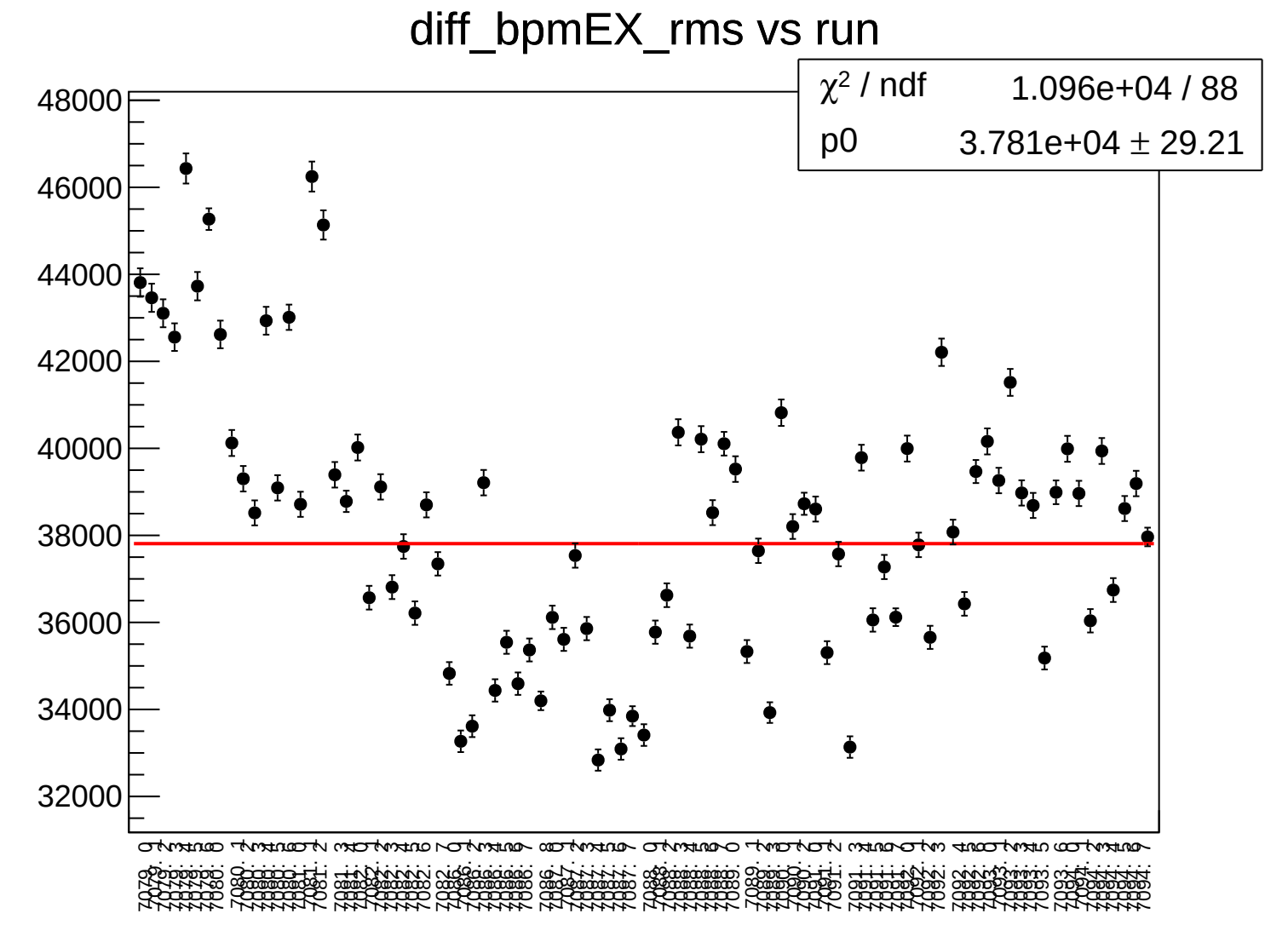

diff_bpmE_mean vs run
χ^2 / ndf 69.16 / 88
p0 −15.39 ± 41.31
1000
500
0
−500
−1000
pull
Entries 89
Mean −375.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

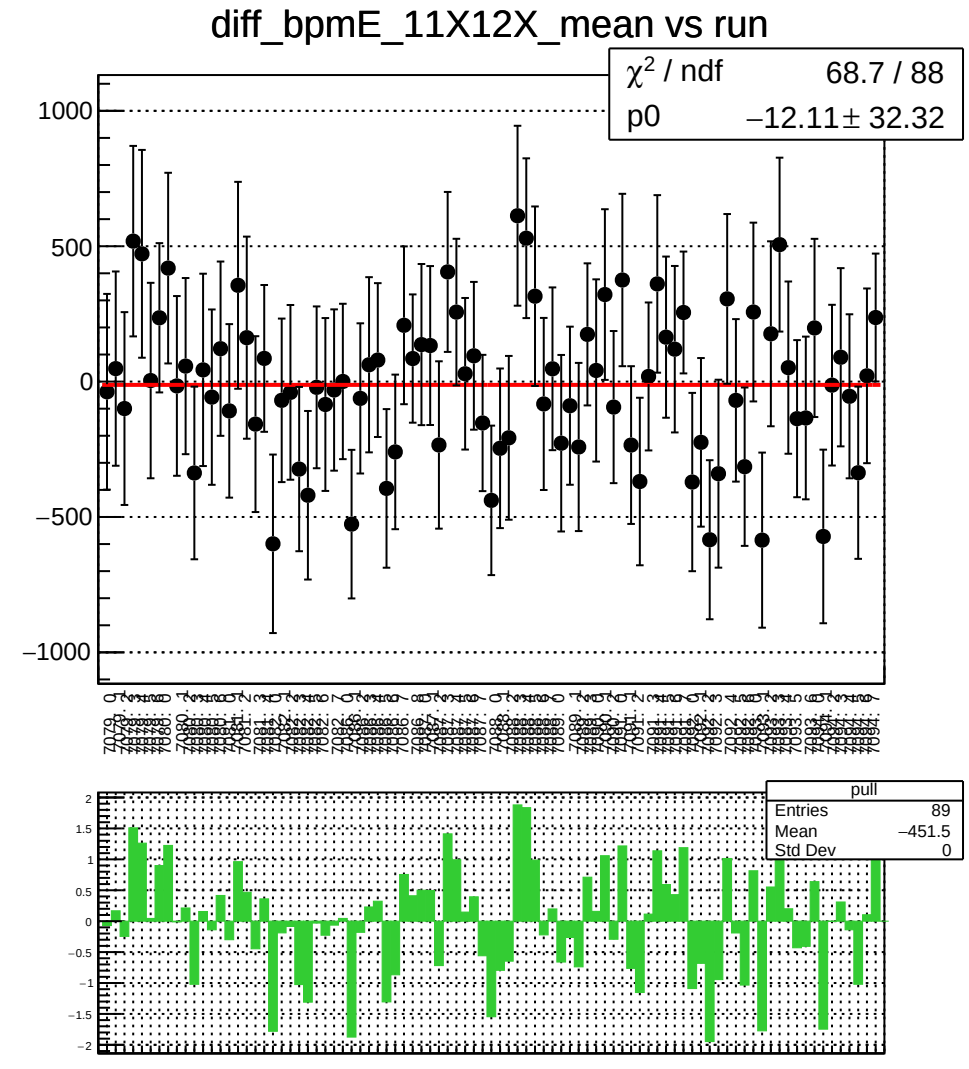

pull1D
Entries 89
Mean 0.003911
Std Dev 0.8815
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

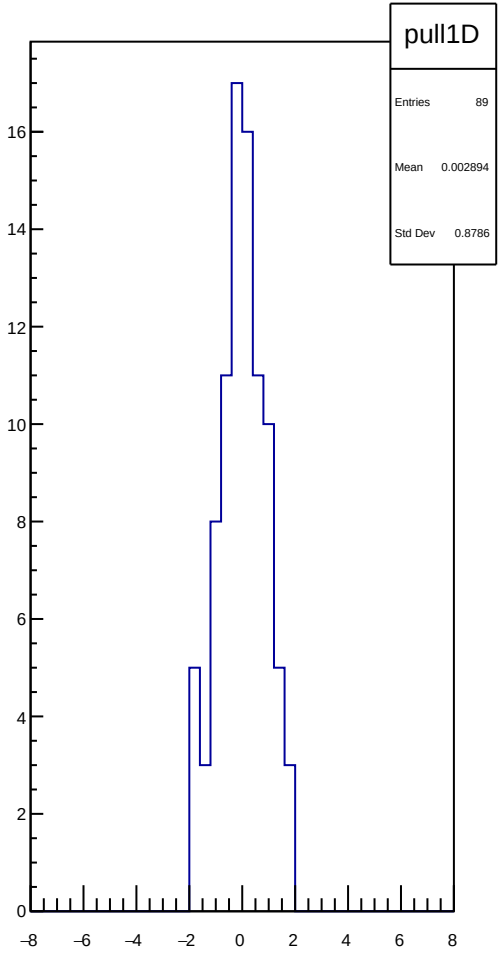

diff_bpmE_rms vs run
χ² / ndf 1.096e+04 / 88
p0 3.781e+04 ± 29.21
48000
46000
44000
42000
40000
38000
36000
34000
32000

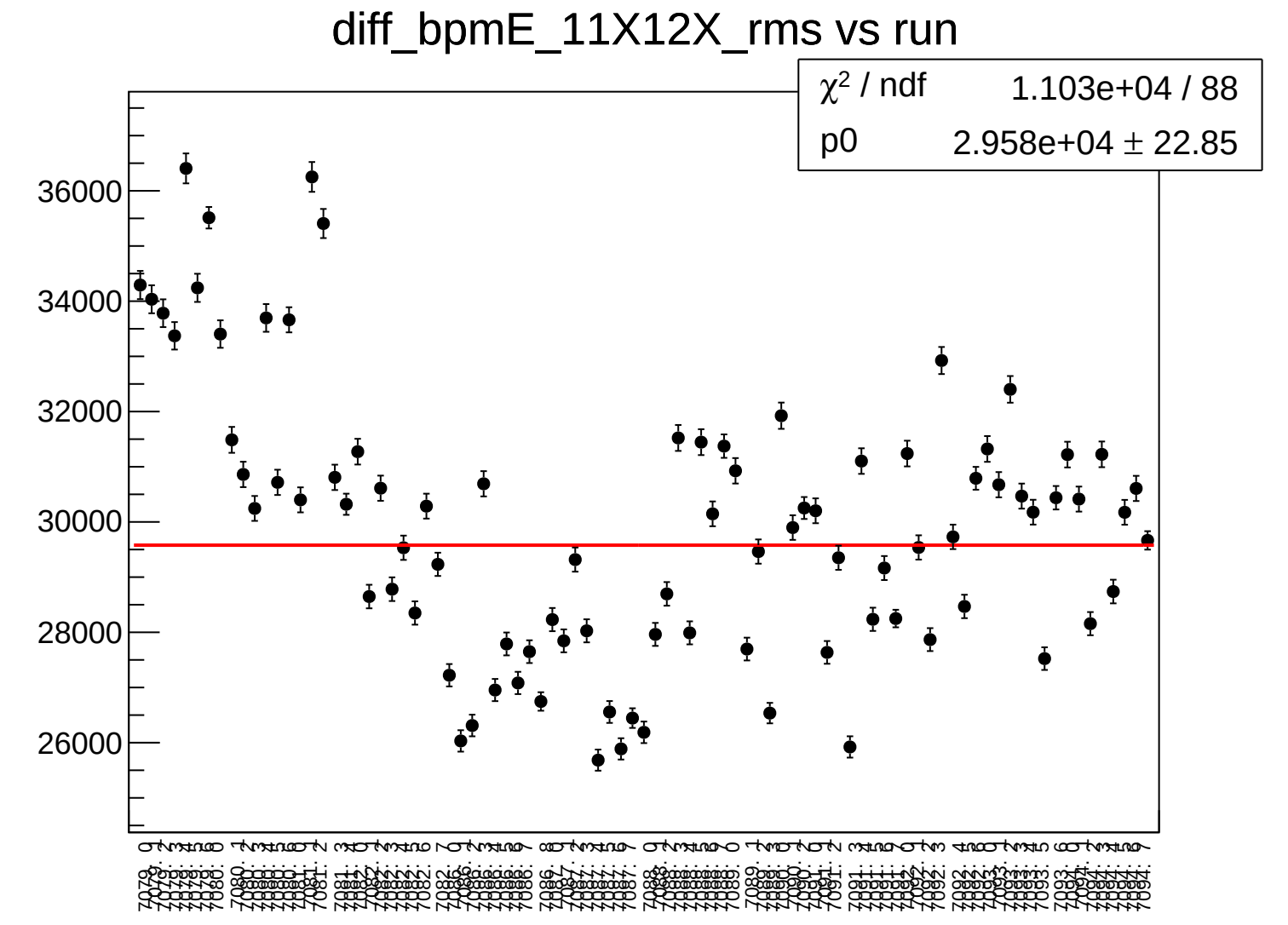

diff_bpmEX_mean vs run
χ^2 / ndf 69.16 / 88
p0 −15.39 ± 41.31
1000
500
0
−500
−1000
pull
Entries 89
Mean −375.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

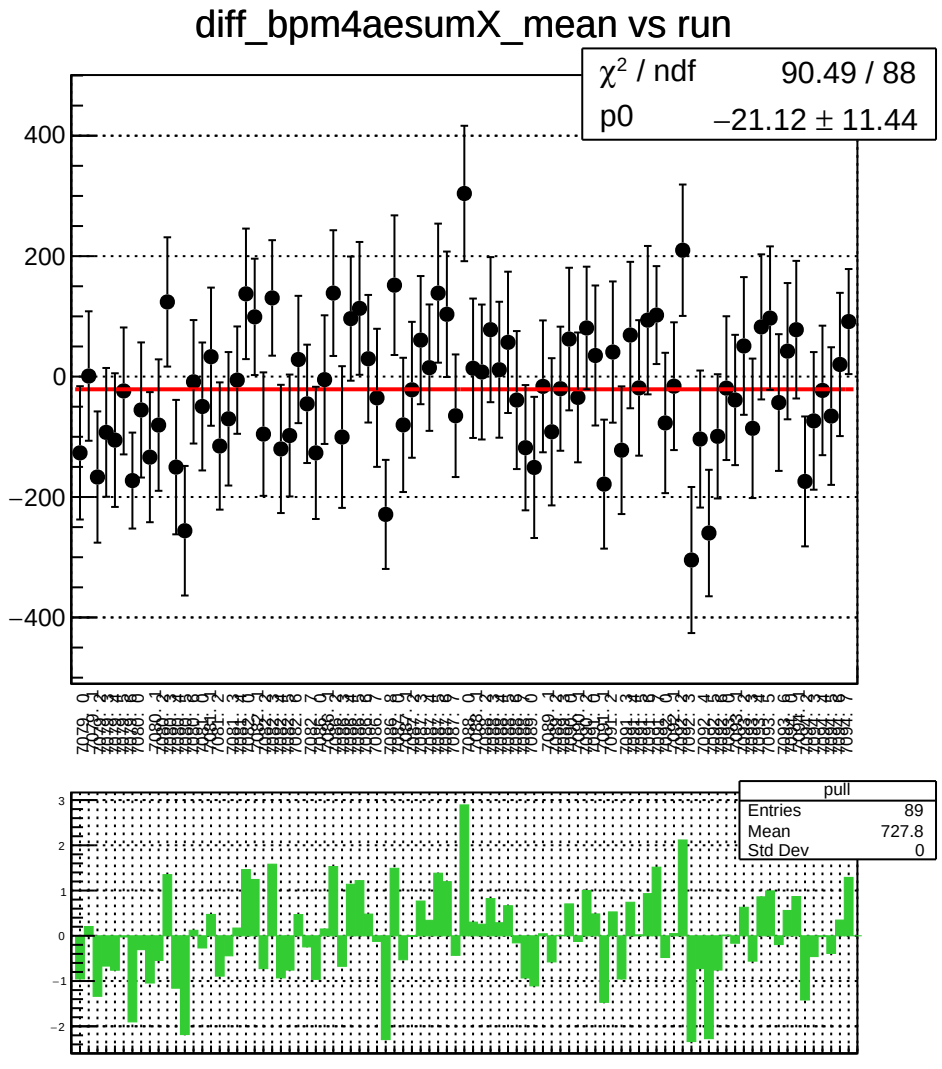

pull1D
Entries 89
Mean 0.003911
Std Dev 0.8815
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

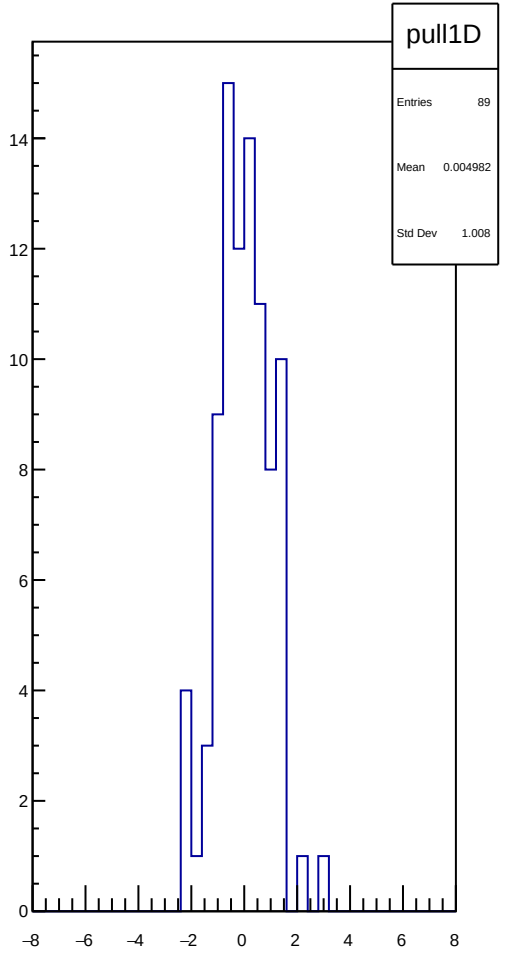

diff_bpmEX_rms vs run
χ² / ndf 1.096e+04 / 88
p0 3.781e+04 ± 29.21
48000
46000
44000
42000
40000
38000
36000
34000
32000

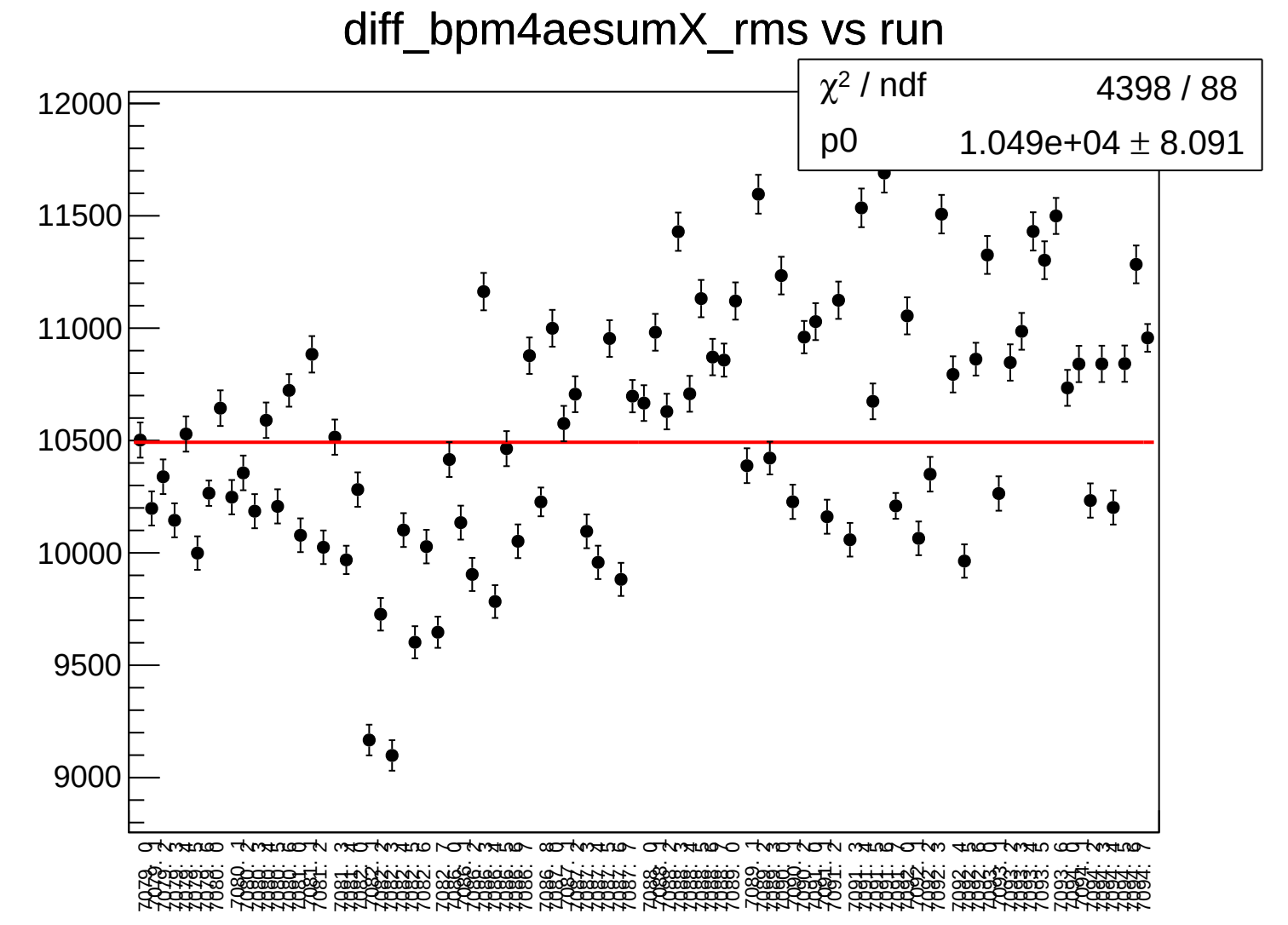

diff_bpmE_11X12X_mean vs run
χ² / ndf 68.7 / 88
p0 −12.11± 32.32
1000
500
0
−500
−1000
pull
Entries 89
Mean −451.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

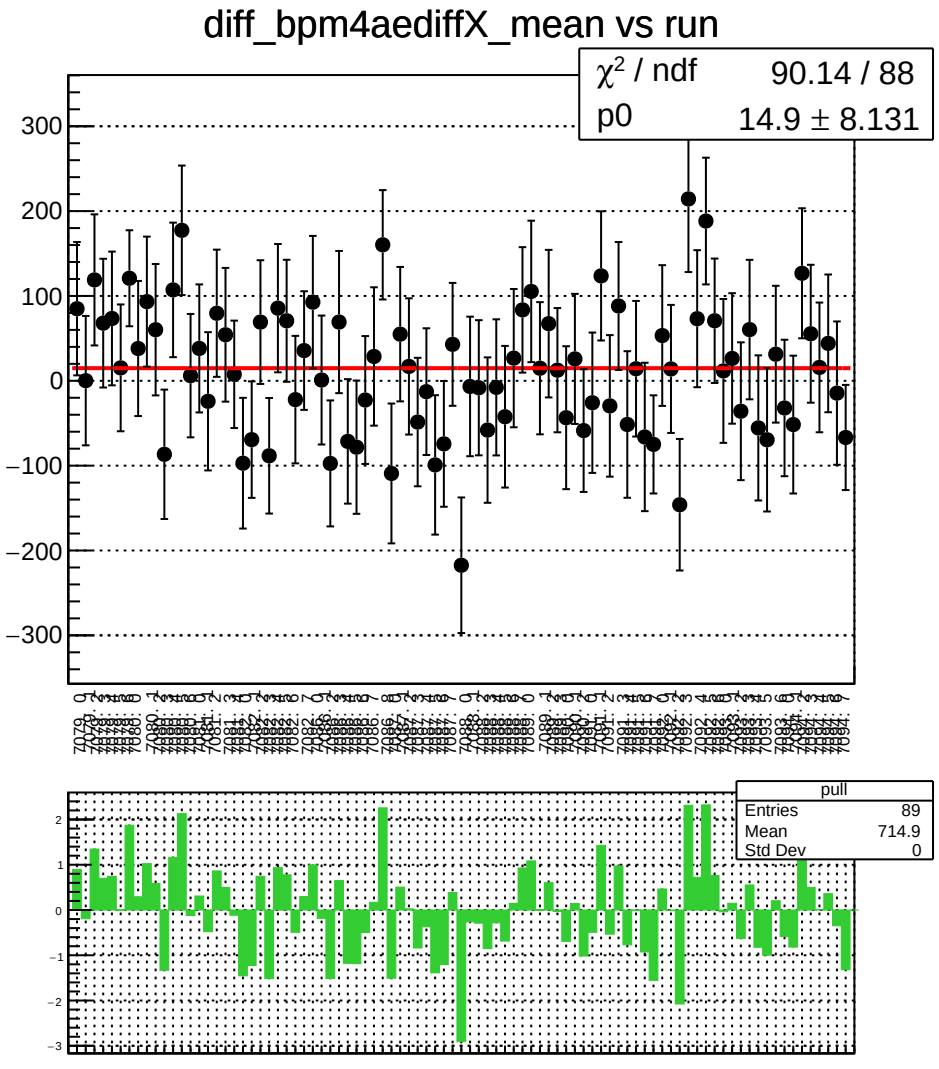

pull1D
Entries 89
Mean 0.002894
Std Dev 0.8786
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

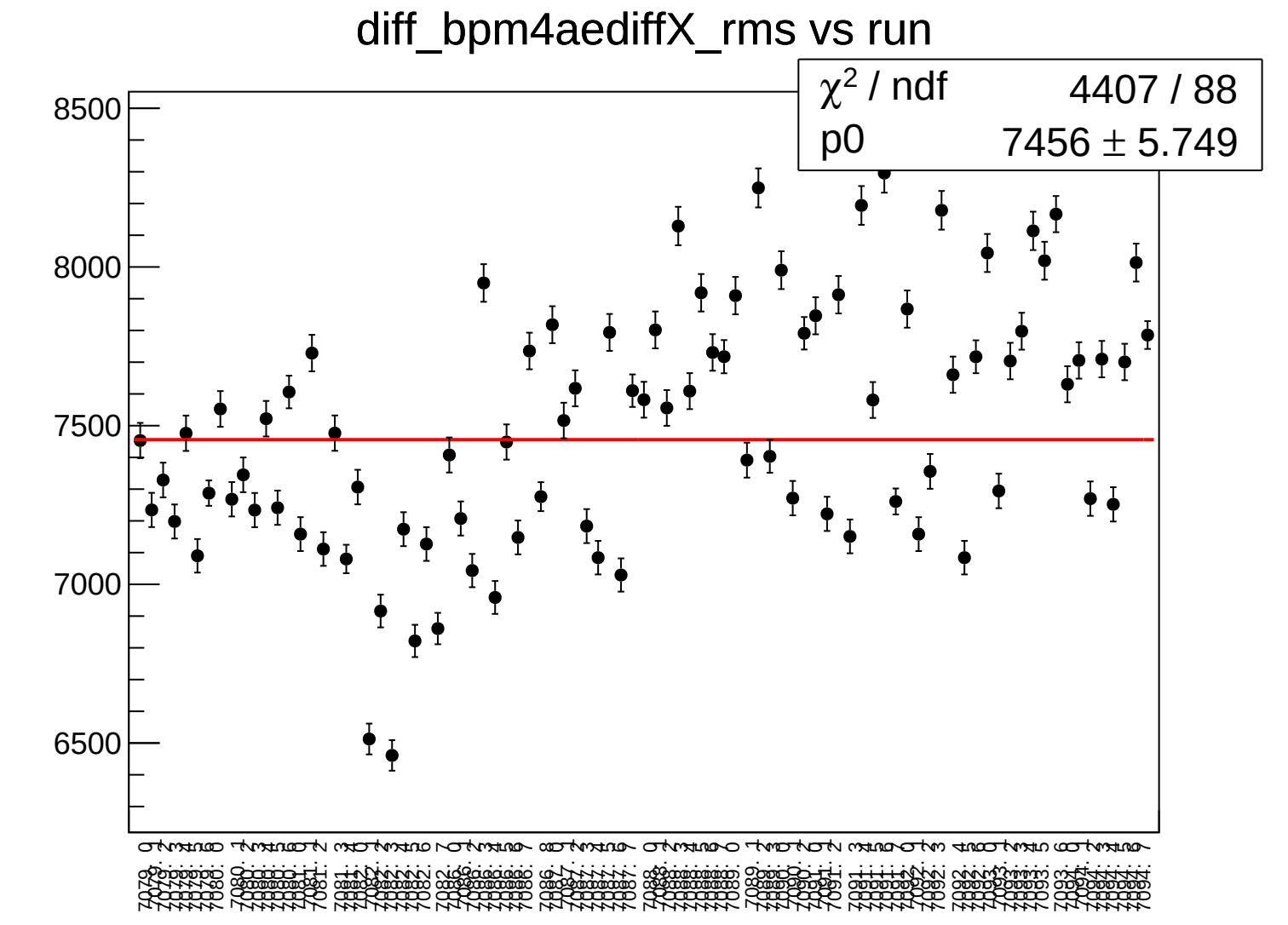

diff_bpmE_11X12X_rms vs run
χ² / ndf 1.103e+04 / 88
p0 2.958e+04 ± 22.85
36000
34000
32000
30000
28000
26000

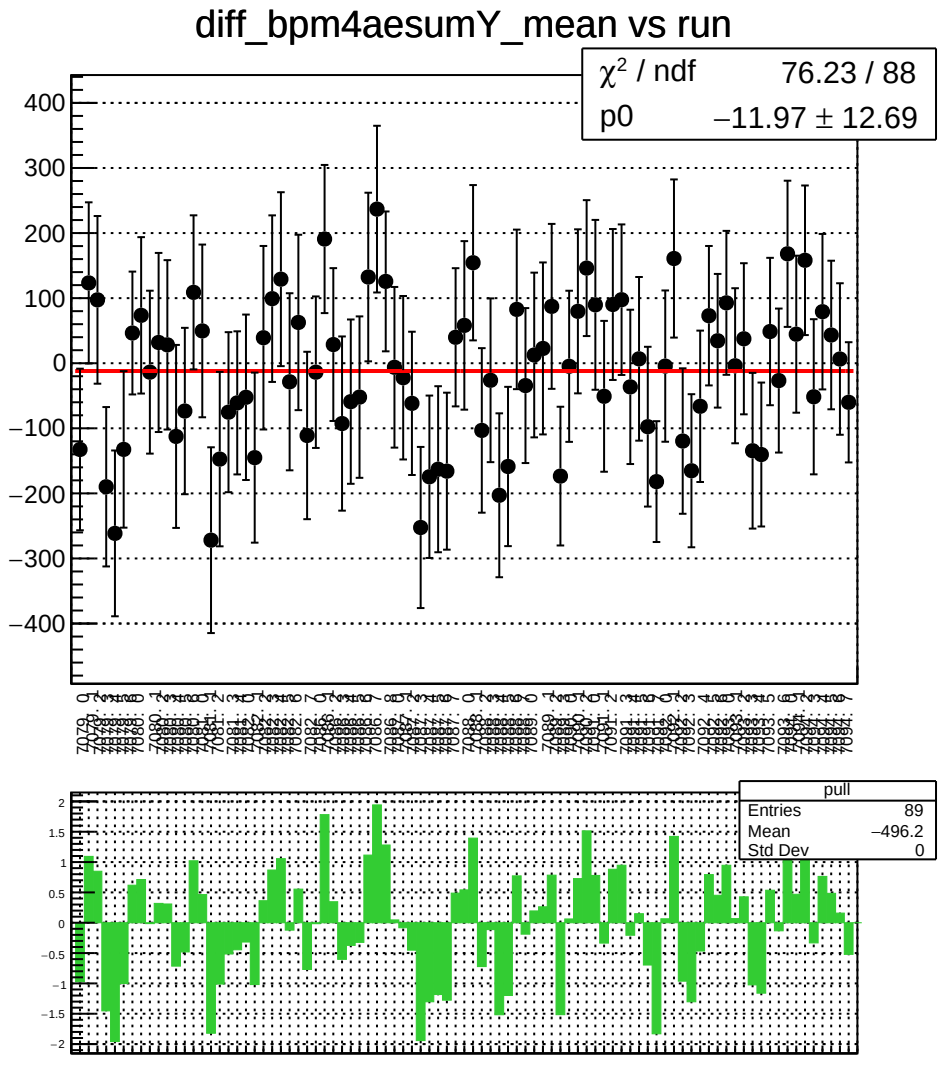

diff_bpm4aesumX_mean vs run
χ² / ndf 90.49 / 88
p0 −21.12 ± 11.44
400
200
0
−200
−400
pull
Entries 89
Mean 727.8
Std Dev 0
3
2
1
0
−1
−2

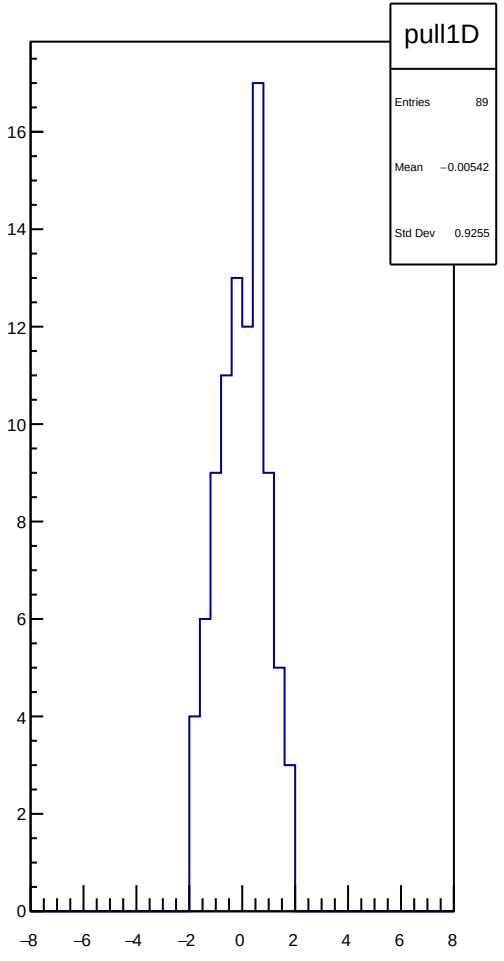

pull1D
Entries 89
Mean 0.004982
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

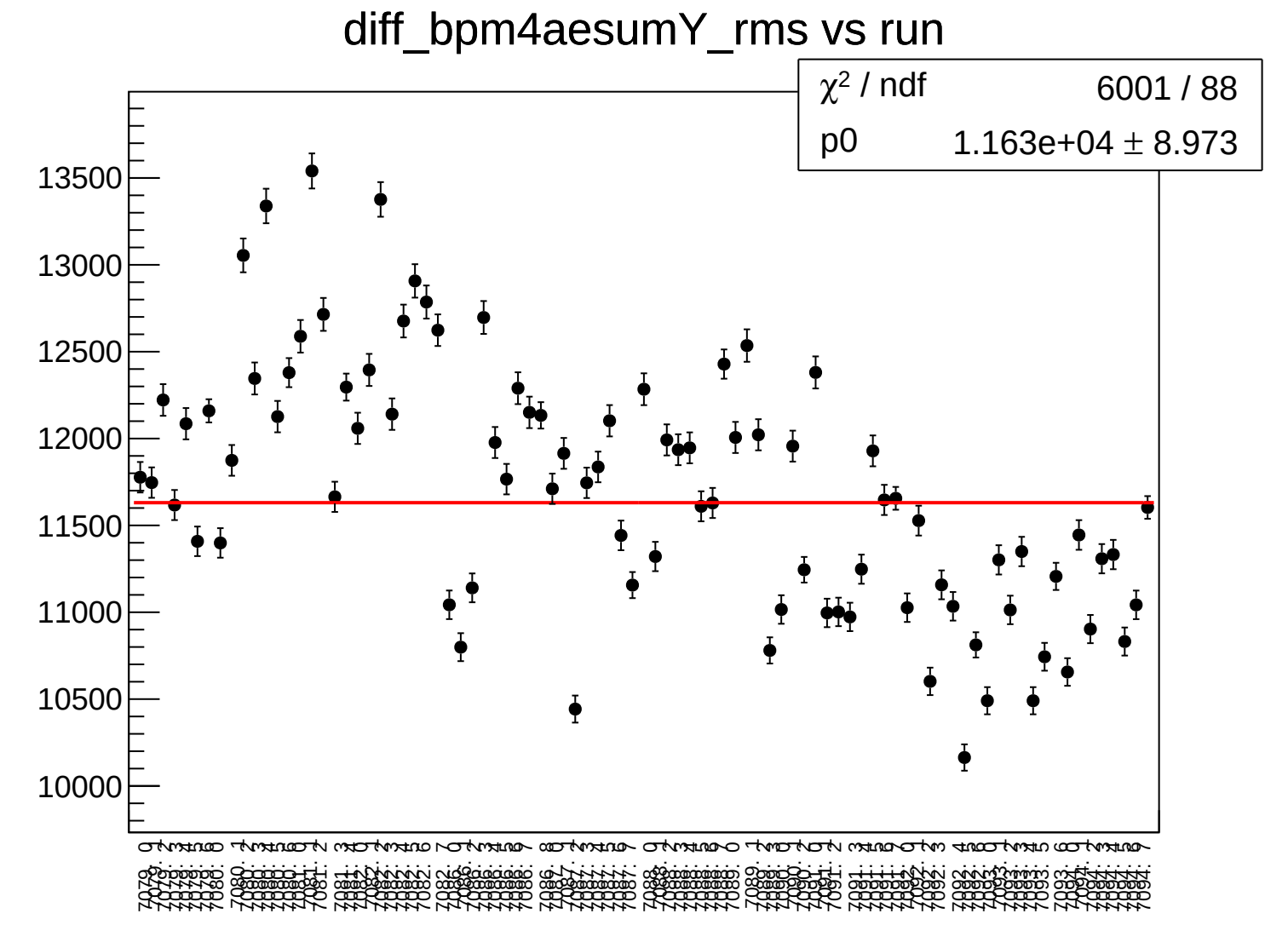

diff_bpm4aesumX_rms vs run
χ² / ndf 4398 / 88
p0 1.049e+04 ± 8.091
12000
11500
11000
10500
10000
9500
9000

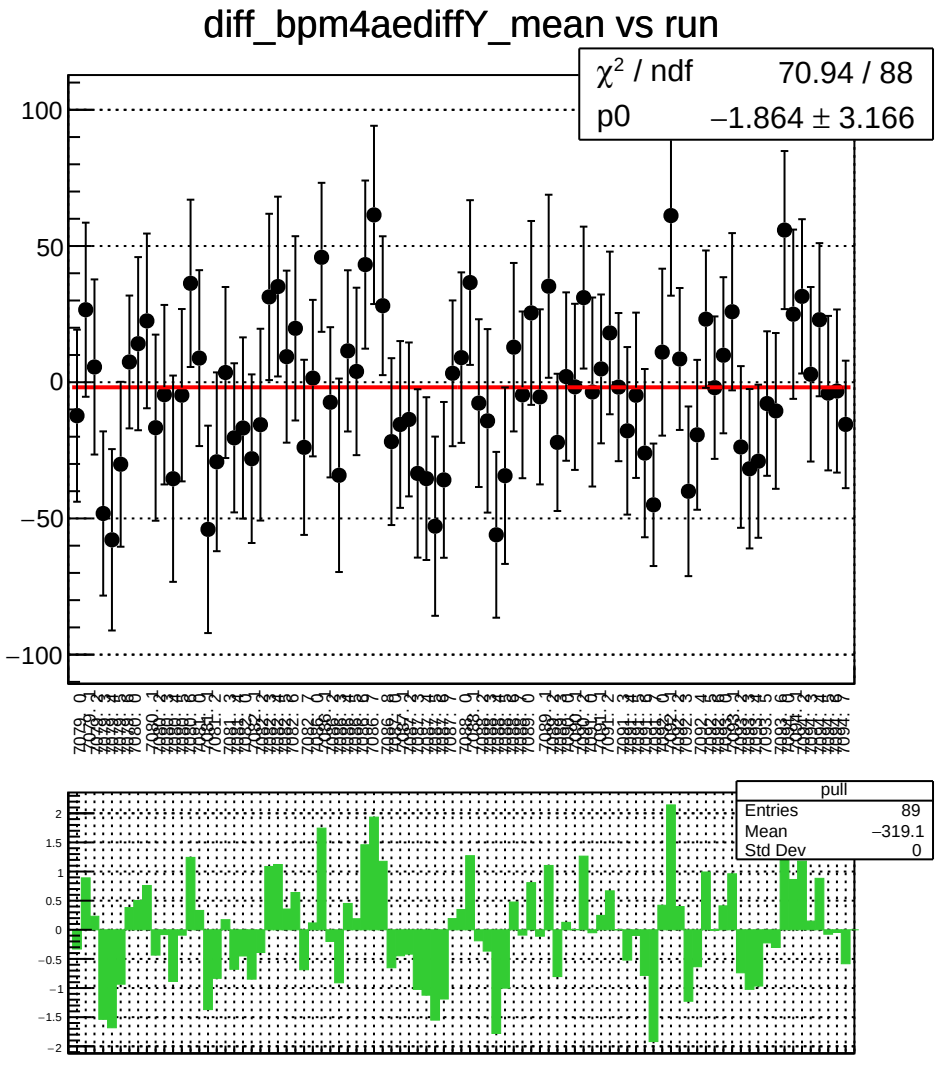

diff_bpm4aediffX_mean vs run
χ² / ndf 90.14 / 88
p0 14.9 ± 8.131
pull
Entries 89
Mean 714.9
Std Dev 0
pull1D
Entries 89
Mean −0.005068
Std Dev 1.006

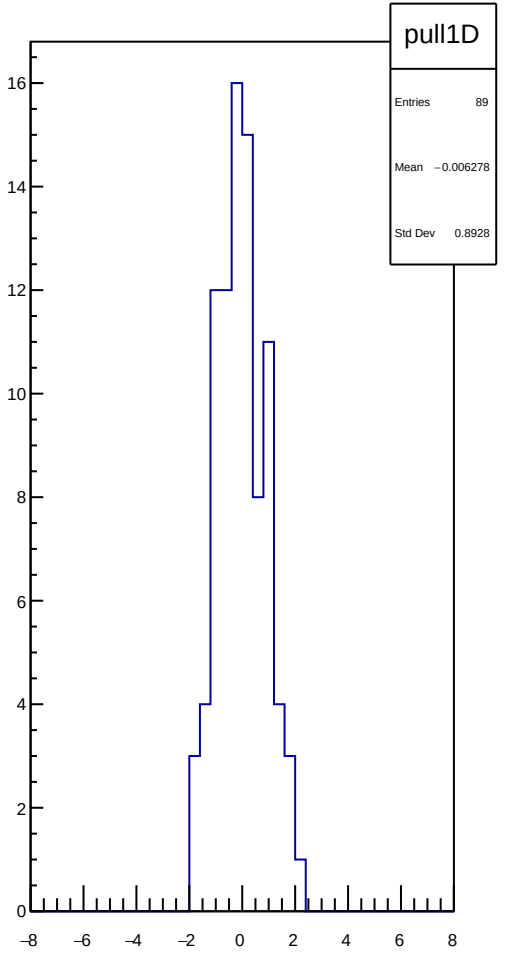

diff_bpm4aediffX_rms vs run
χ² / ndf 4407 / 88
p0 7456 ± 5.749
8500
8000
7500
7000
6500

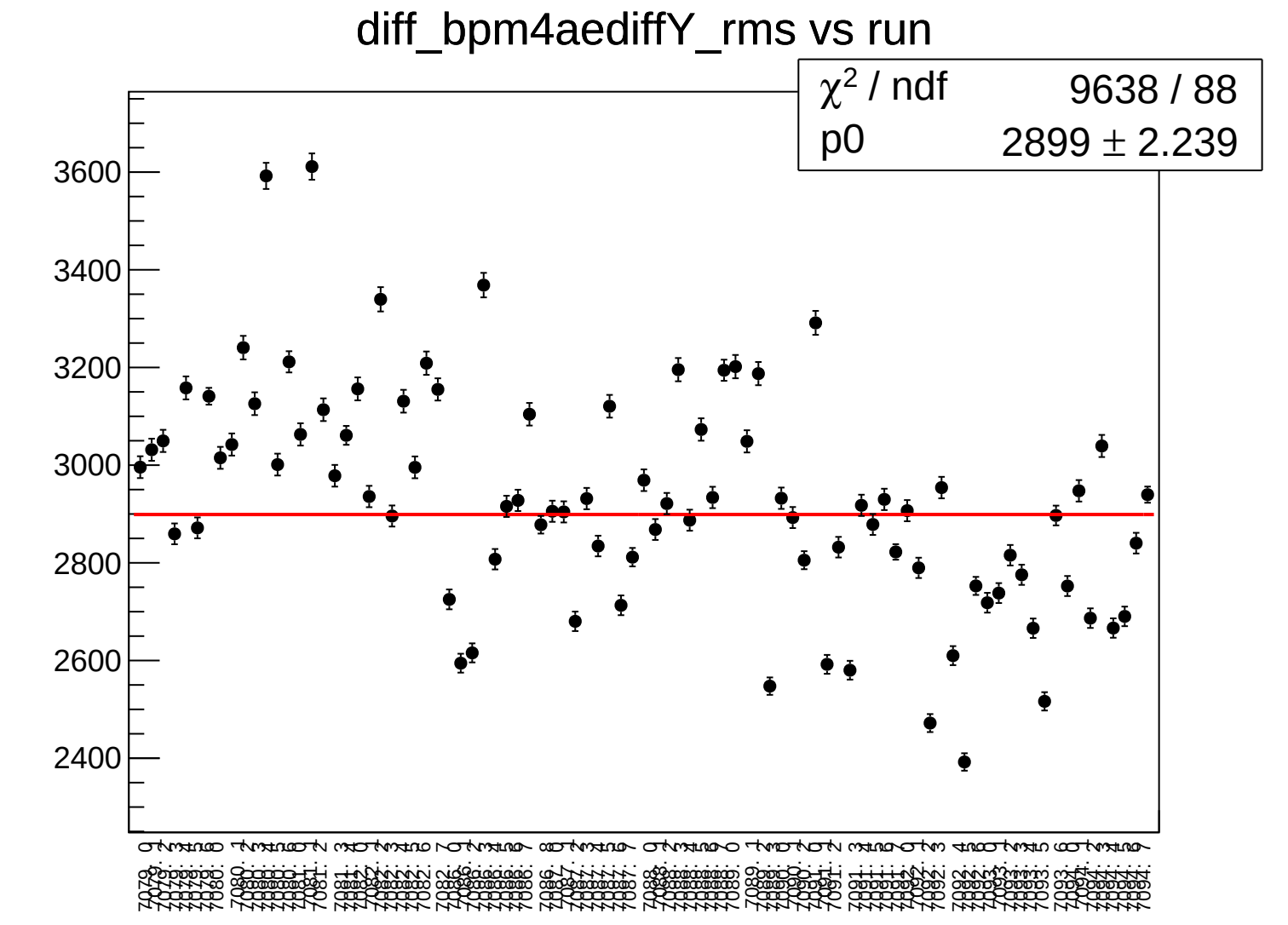

diff_bpm4aesumY_mean vs run
χ² / ndf 76.23 / 88
p0 −11.97 ± 12.69
pull
Entries 89
Mean −496.2
Std Dev 0

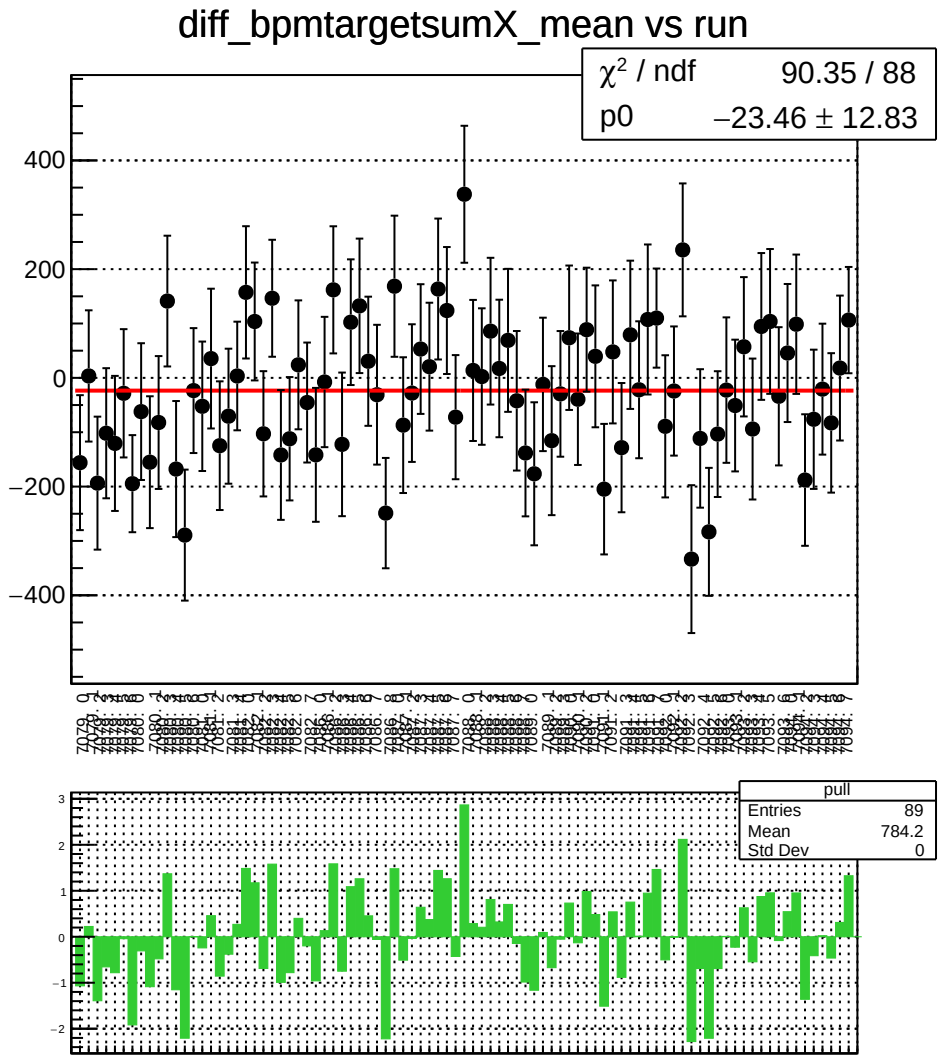

pull1D
Entries 89
Mean −0.00542
Std Dev 0.9255

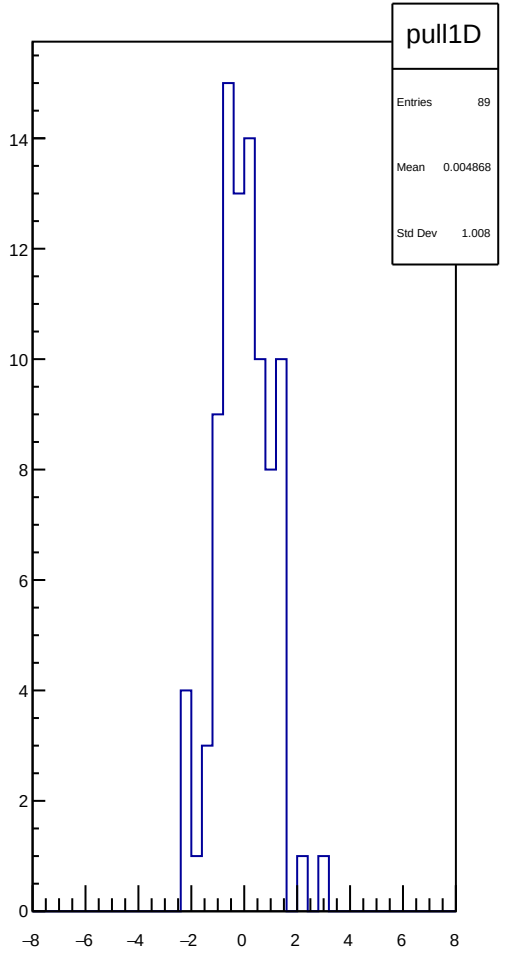

diff_bpm4aesumY_rms vs run
χ² / ndf 6001 / 88
p0 1.163e+04 ± 8.973
13500
13000
12500
12000
11500
11000
10500
10000

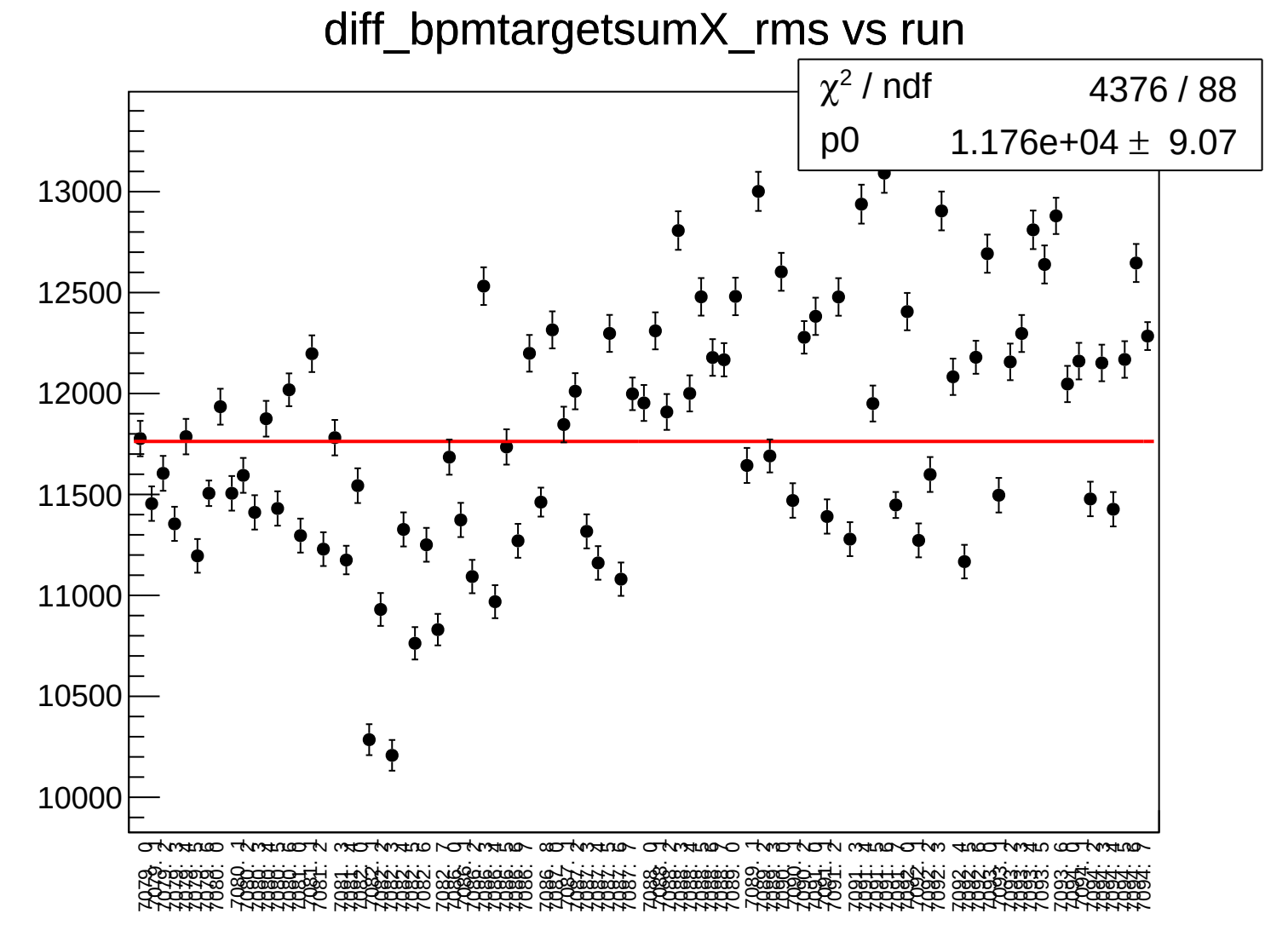

diff_bpm4aediffY_mean vs run
χ² / ndf 70.94 / 88
p0 −1.864 ± 3.166
100
50
0
−50
−100
pull
Entries 89
Mean −319.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

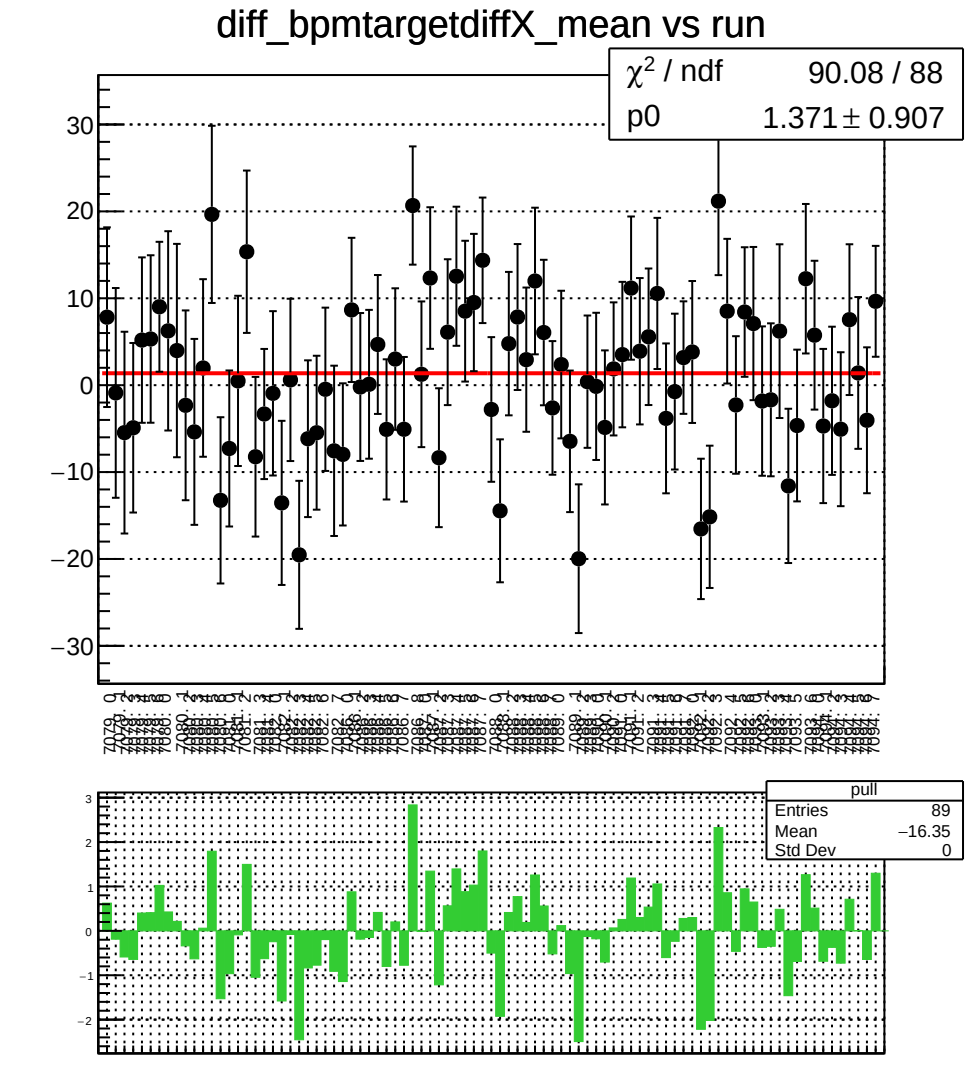

pull1D
Entries 89
Mean −0.006278
Std Dev 0.8928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

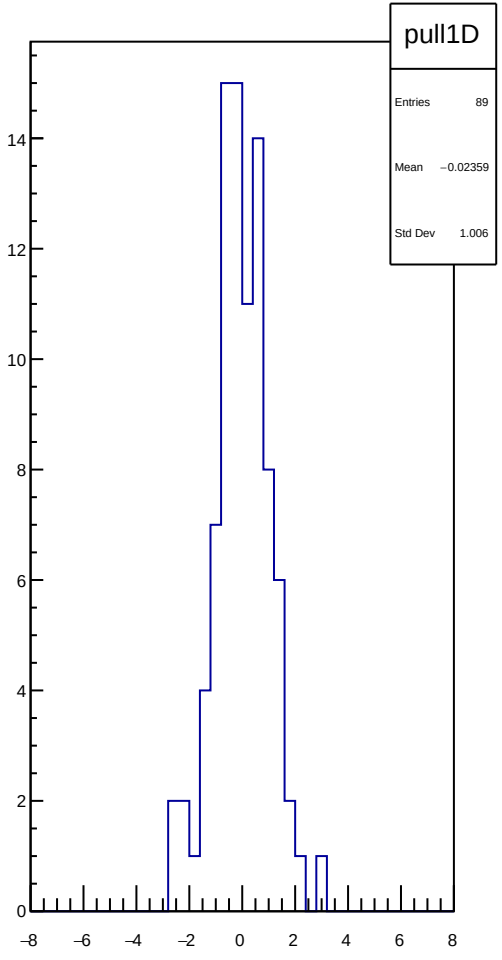

diff_bpm4aediffY_rms vs run
χ² / ndf 9638 / 88
p0 2899 ± 2.239
3600
3400
3200
3000
2800
2600
2400

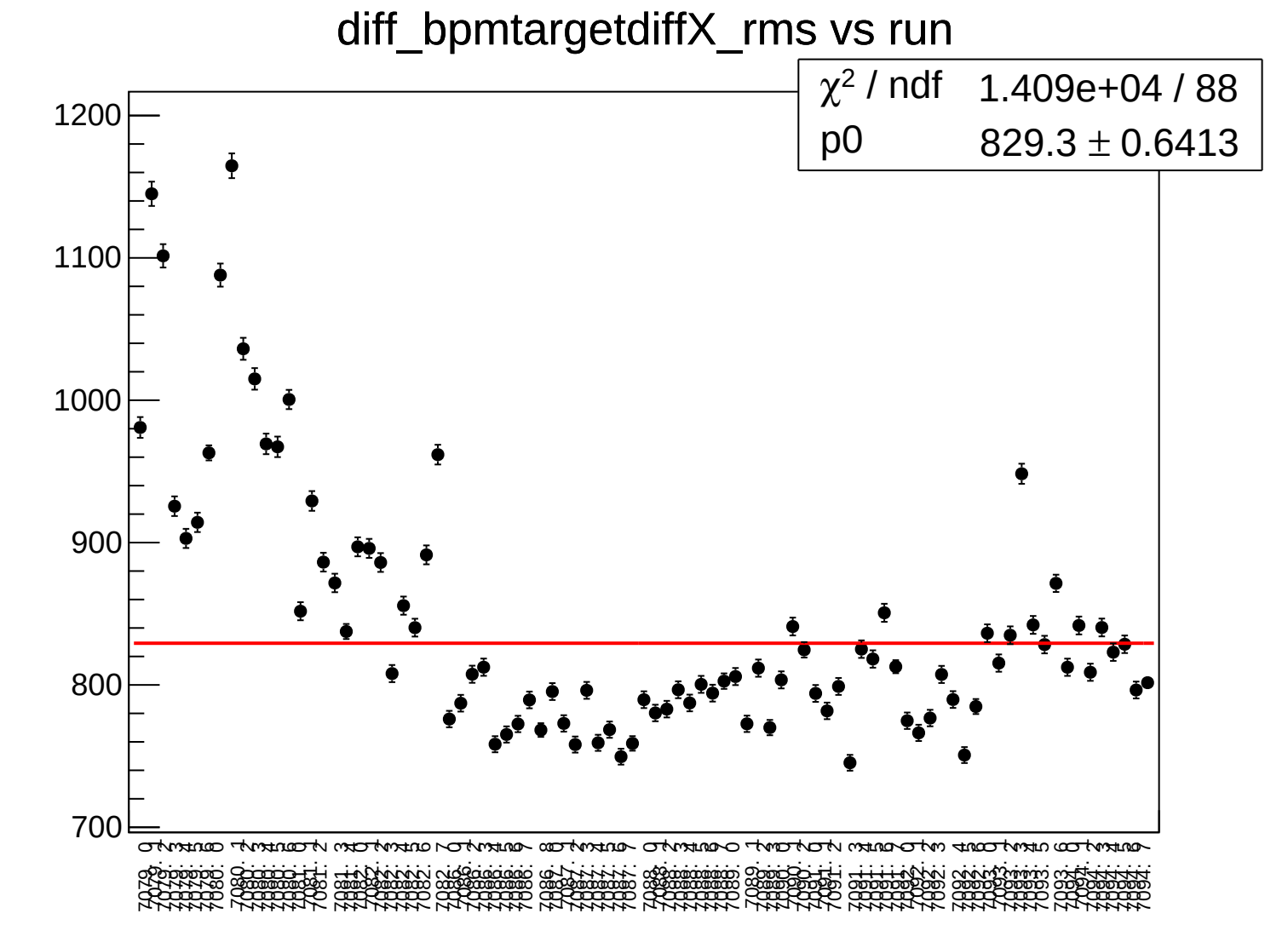

diff_bpmtargetsumX_mean vs run
χ² / ndf 90.35 / 88
p0 −23.46 ± 12.83
400
200
0
−200
−400
pull
Entries 89
Mean 784.2
Std Dev 0
3
2
1
0
−1
−2

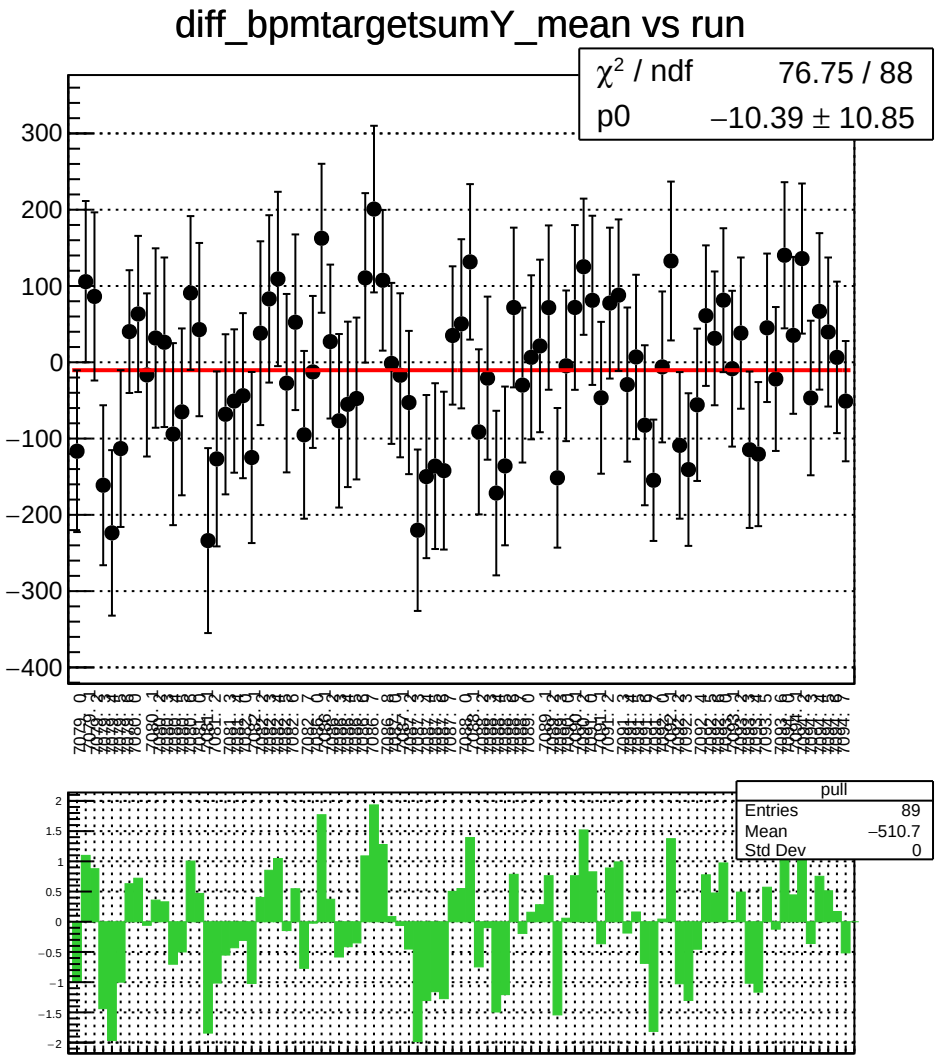

pull1D
Entries 89
Mean 0.004868
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

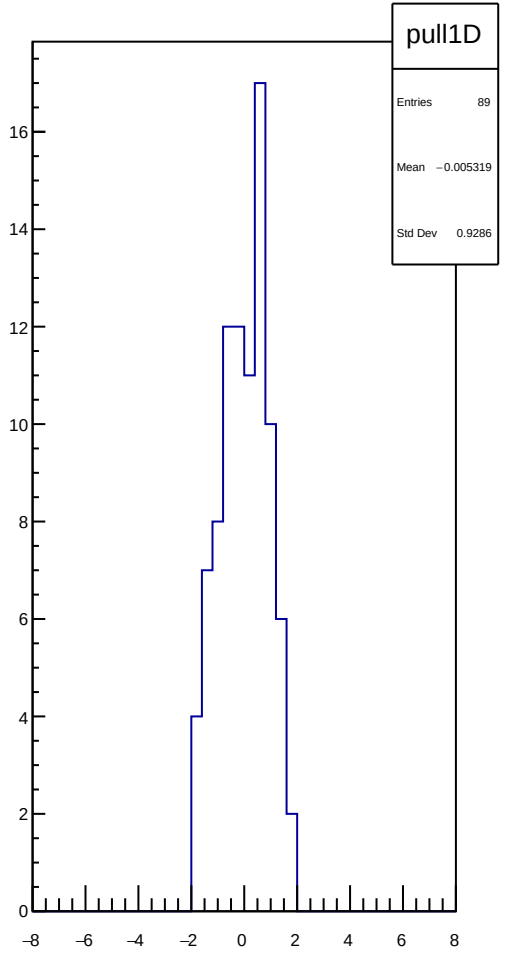

diff_bpmtargetsumX_rms vs run
χ² / ndf 4376 / 88
p0 1.176e+04 ± 9.07
13000
12500
12000
11500
11000
10500
10000

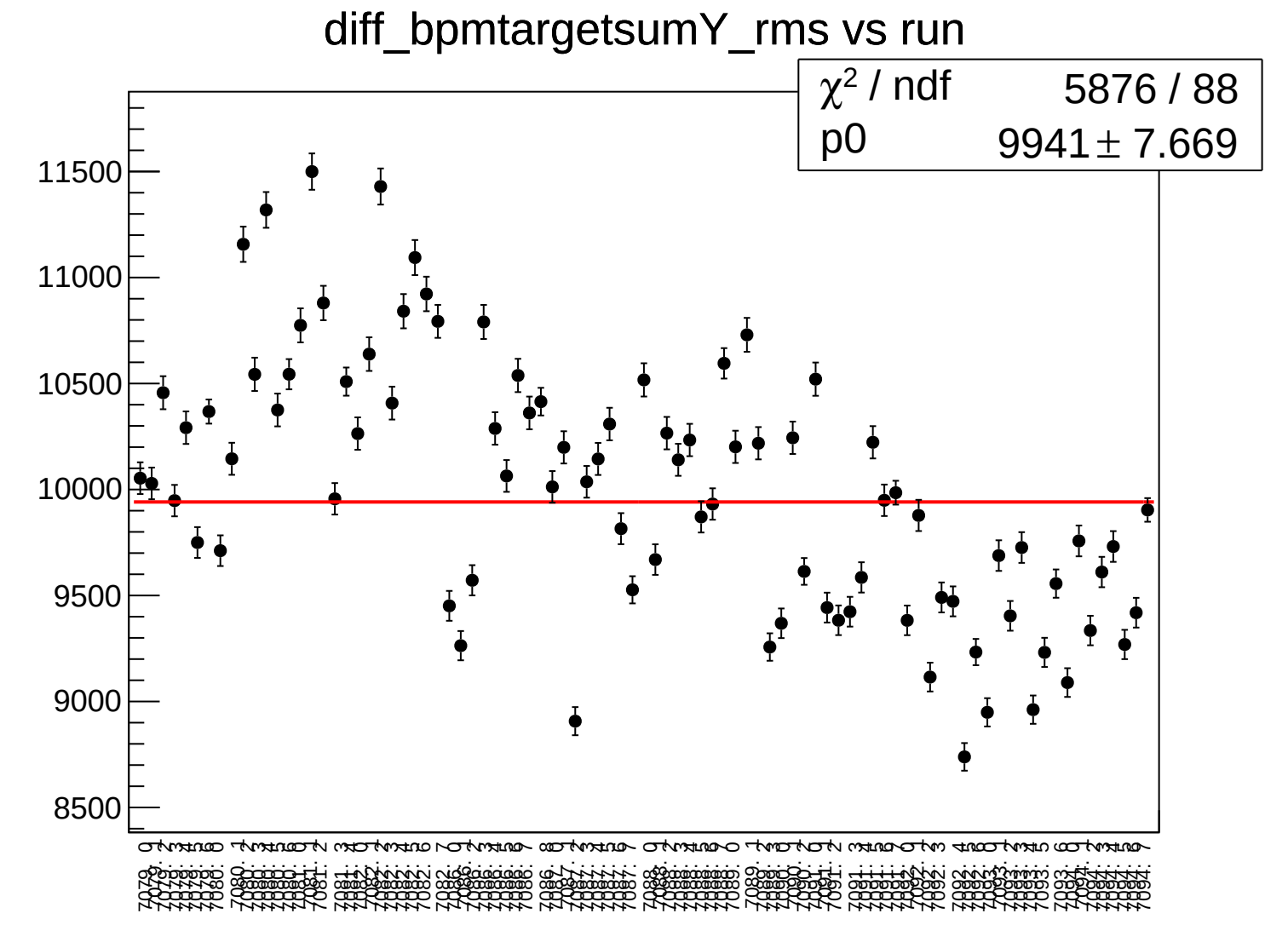

diff_bpmtargetdiffX_mean vs run
χ² / ndf 90.08 / 88
p0 1.371 ± 0.907
pull
Entries 89
Mean −16.35
Std Dev 0

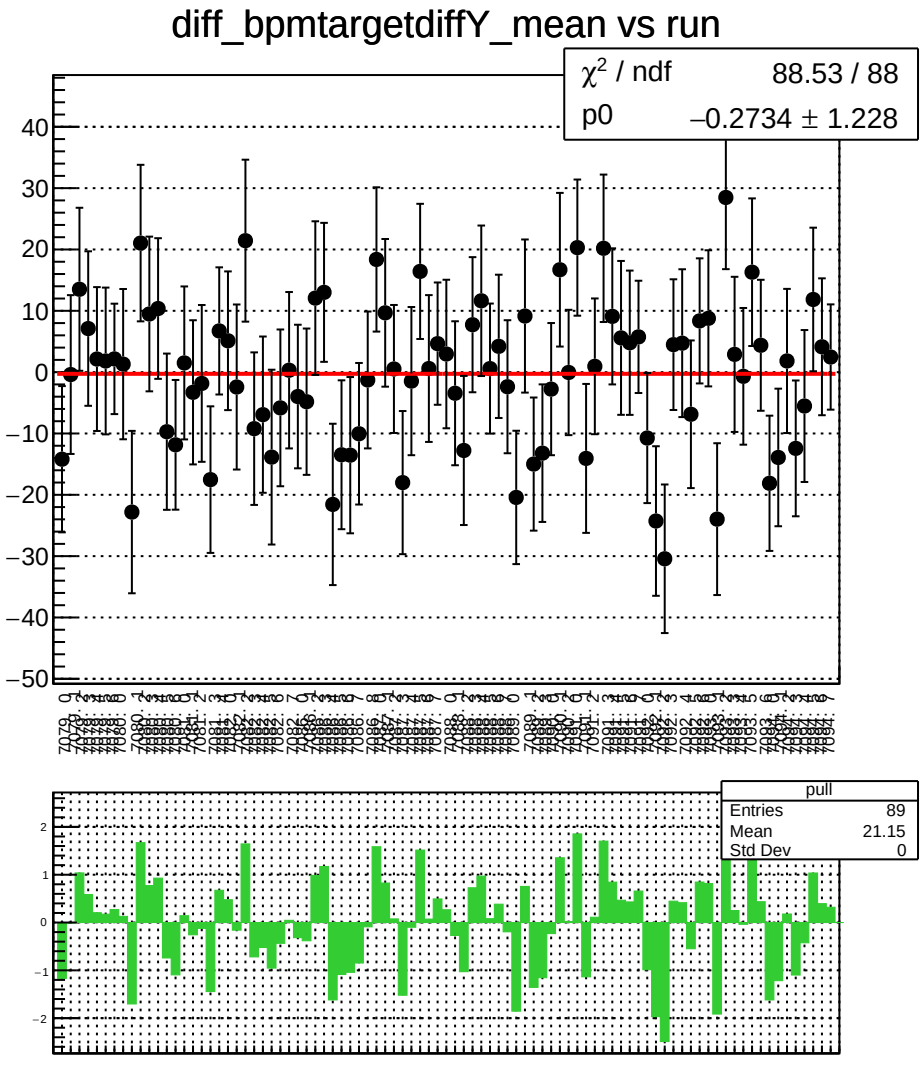

pull1D
Entries 89
Mean −0.02359
Std Dev 1.006

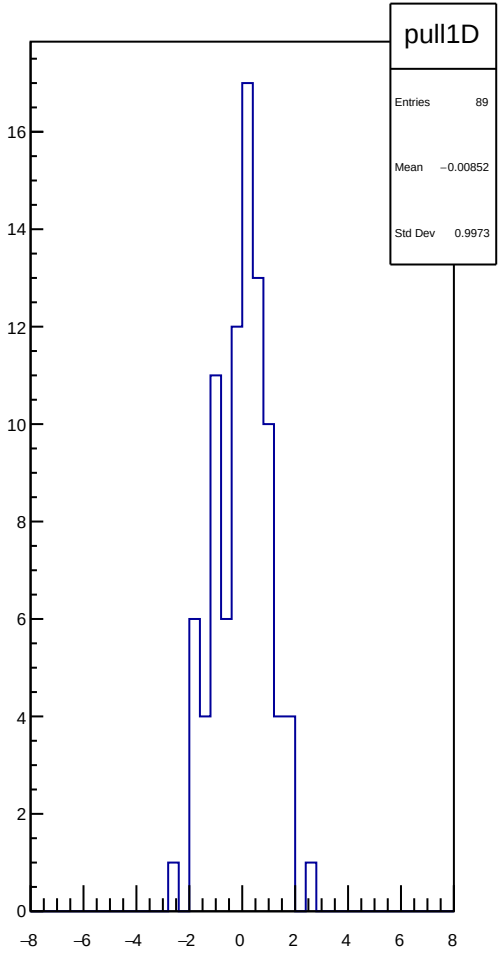

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1.409e+04 / 88
p0 829.3 ± 0.6413
1200
1100
1000
900
800
700

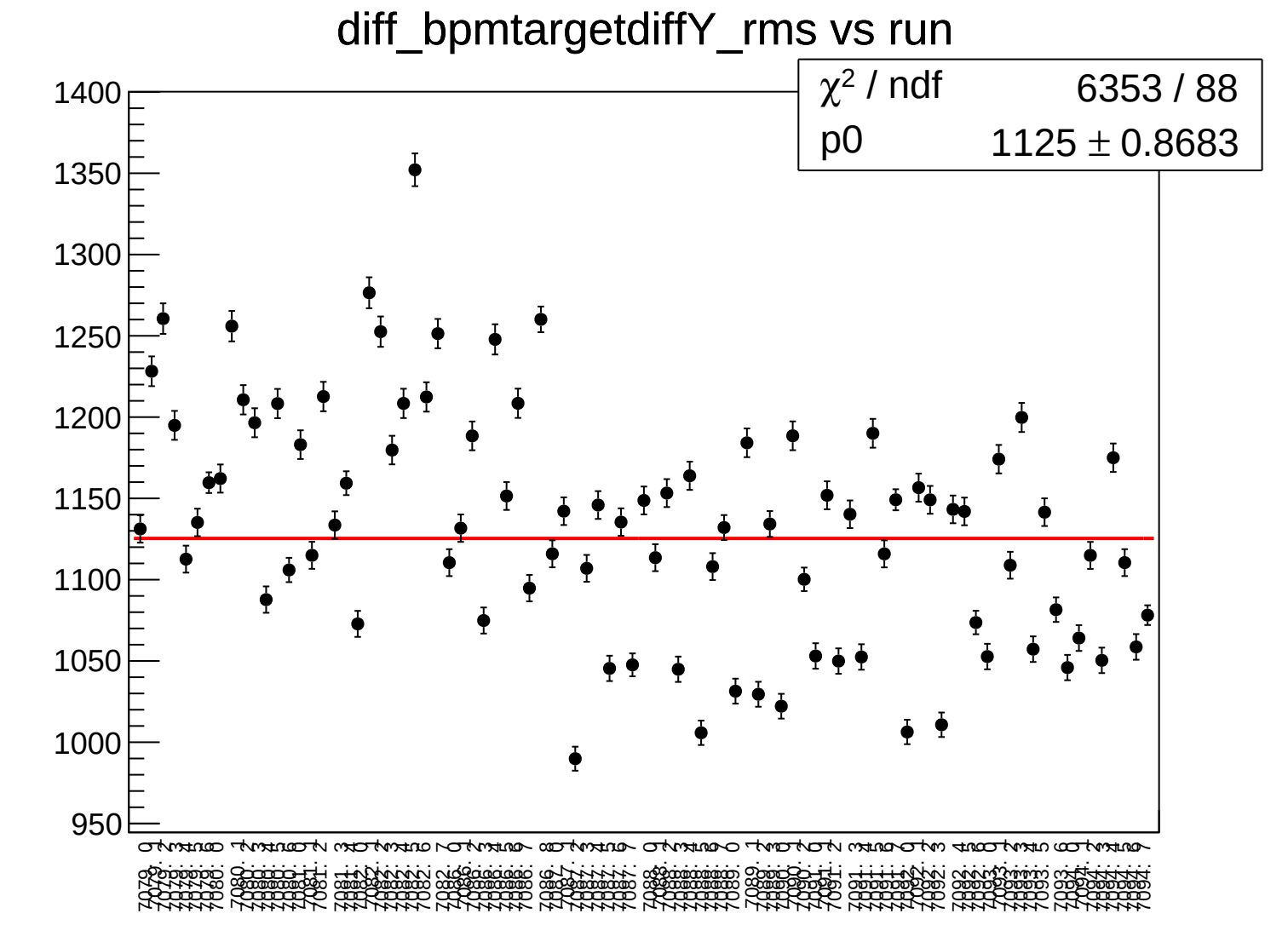

diff_bpmtargetsumY_mean vs run
χ² / ndf 76.75 / 88
p0 −10.39 ± 10.85
pull
Entries 89
Mean −510.7
Std Dev 0

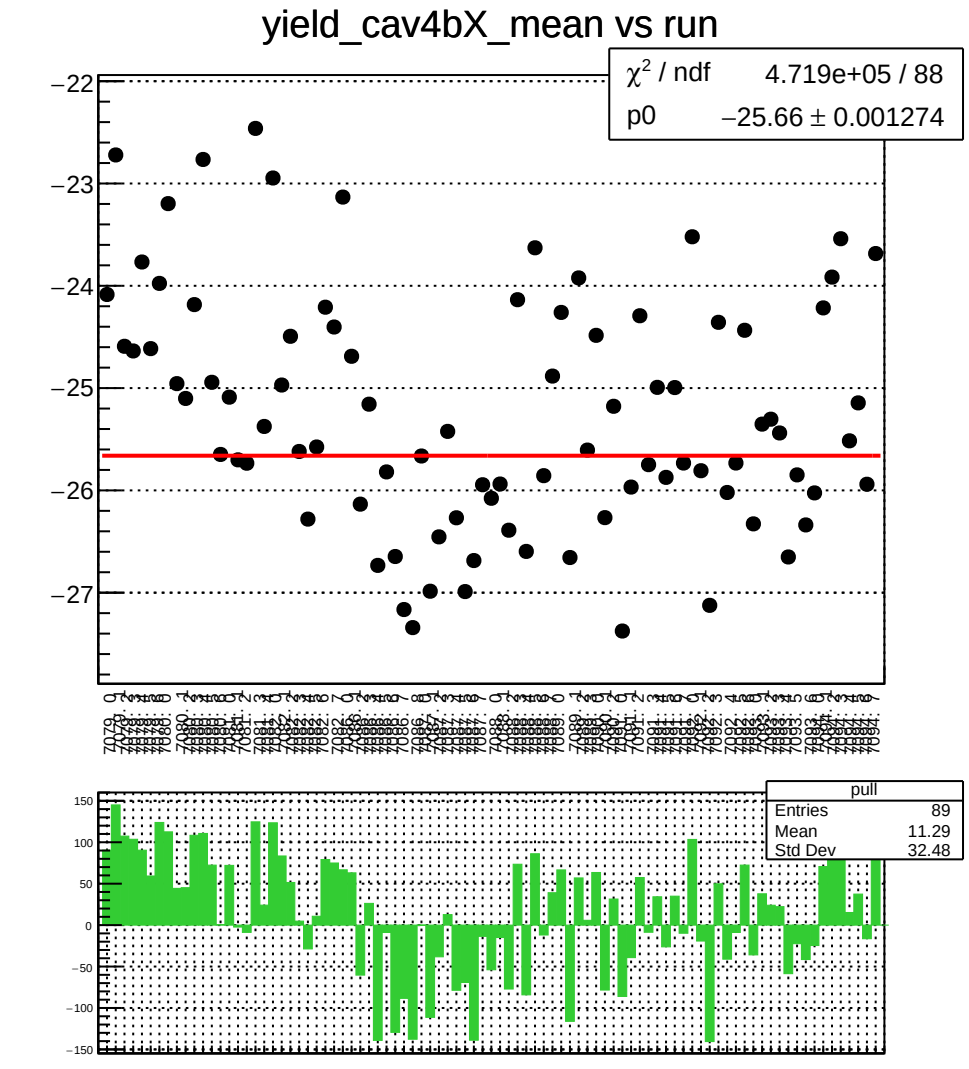

pull1D
Entries 89
Mean −0.005319
Std Dev 0.9286

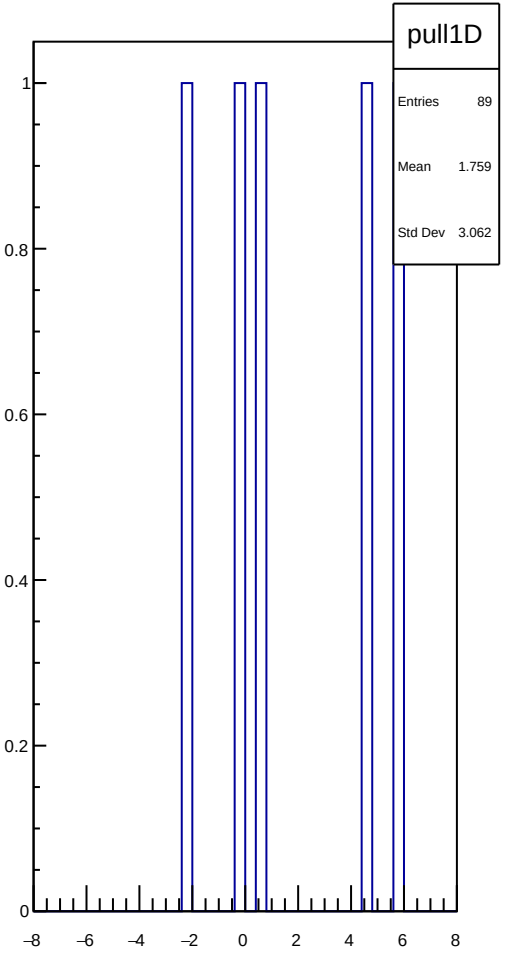

diff_bpmtargetsumY_rms vs run
χ² / ndf 5876 / 88
p0 9941 ± 7.669
11500
11000
10500
10000
9500
9000
8500

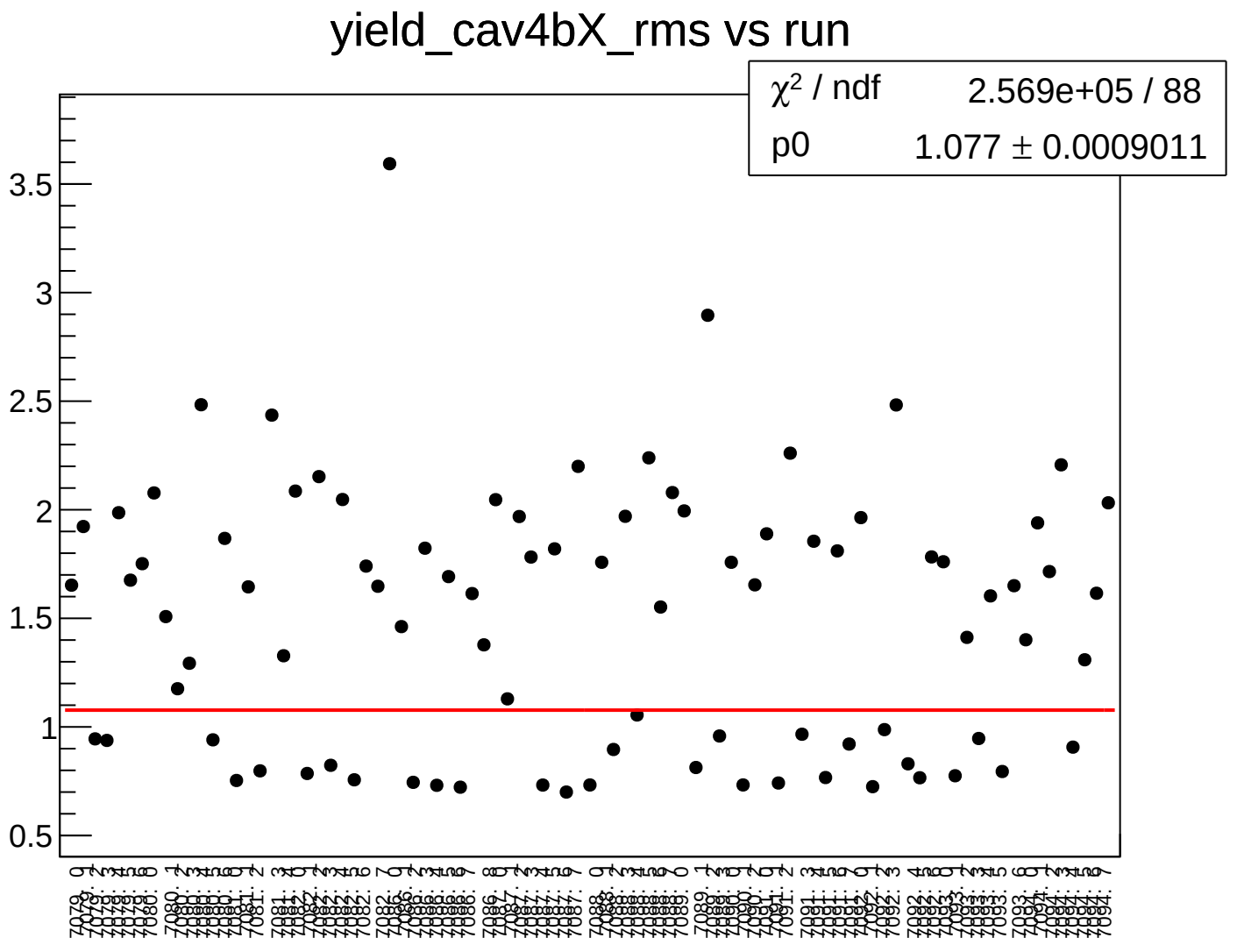

diff_bpmtargetdiffY_mean vs run
χ^2 / ndf 88.53 / 88
p0 −0.2734 ± 1.228
pull
Entries 89
Mean 21.15
Std Dev 0

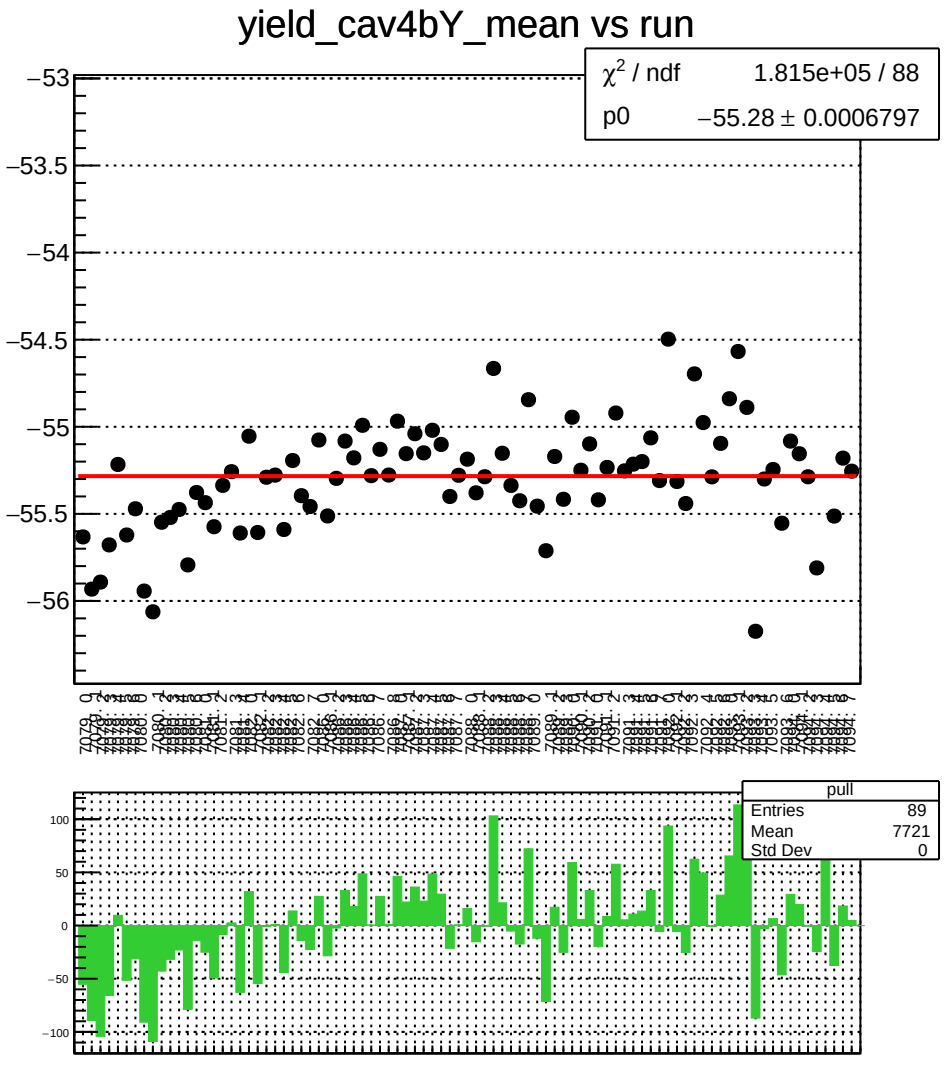

pull1D
Entries 89
Mean −0.00852
Std Dev 0.9973

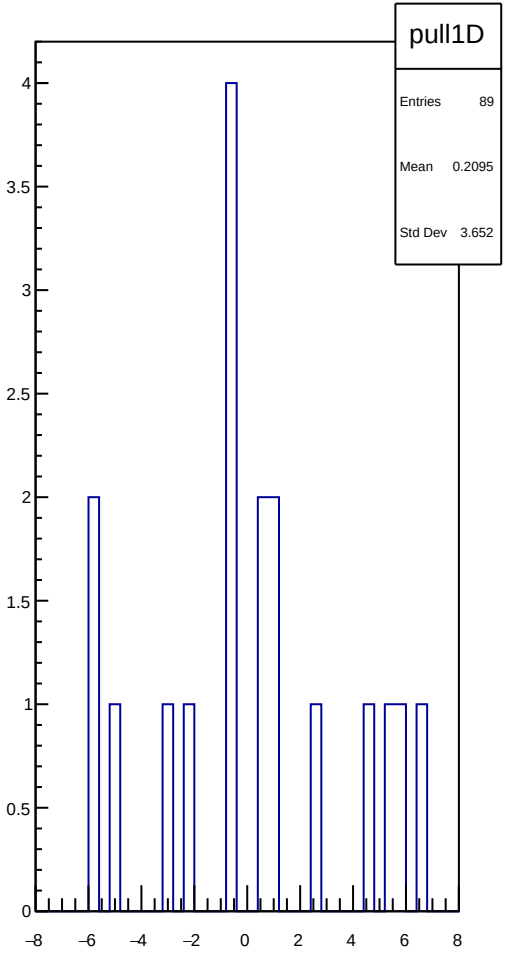

diff_bpmtargetdiffY_rms vs run
χ² / ndf 6353 / 88
p0 1125 ± 0.8683
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

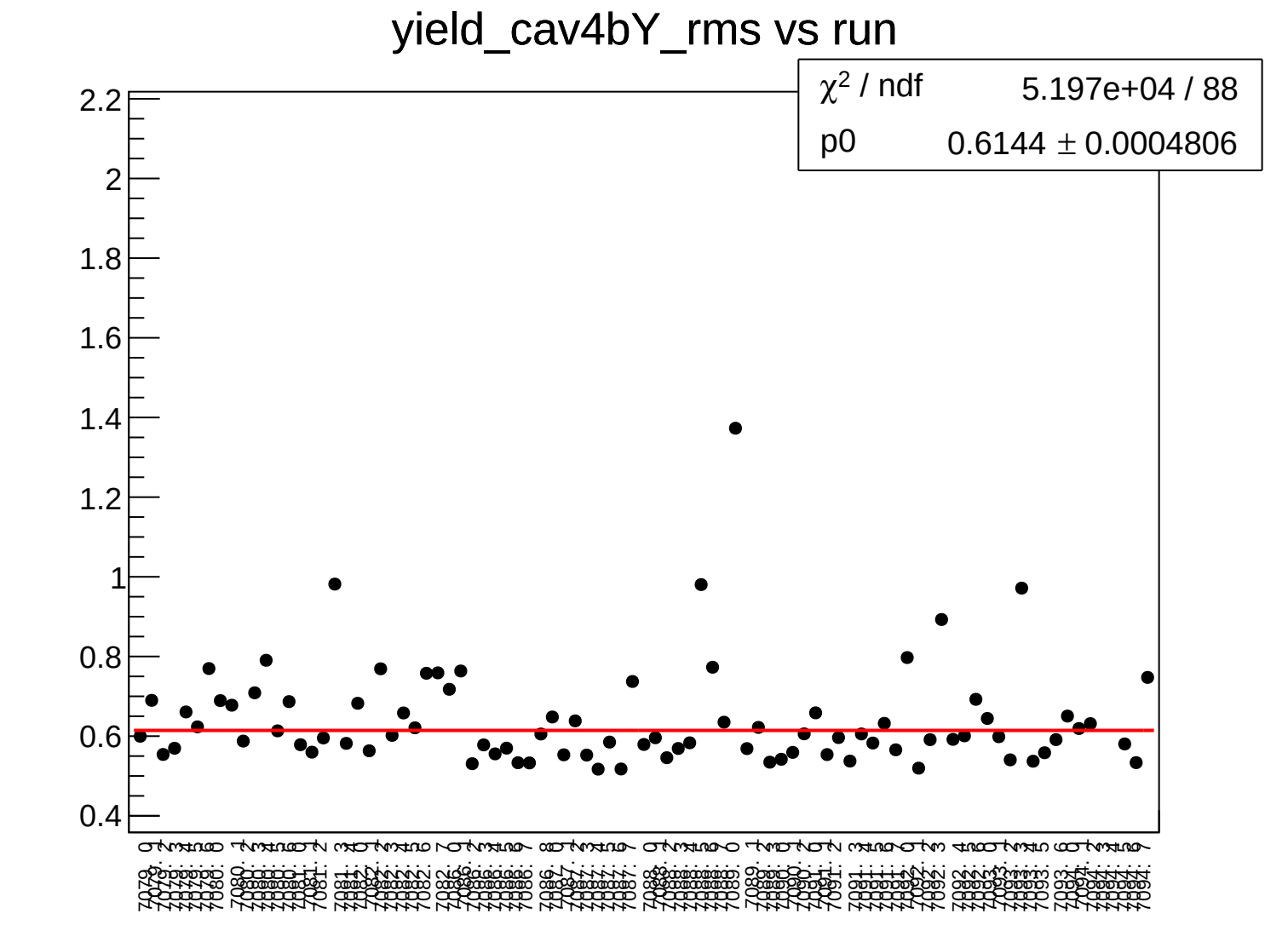

yield_cav4bX_mean vs run
χ² / ndf 4.719e+05 / 88
p0 −25.66 ± 0.001274
−22
−23
−24
−25
−26
−27
pull
Entries 89
Mean 11.29
Std Dev 32.48
150
100
50
0
−50
−100
−150

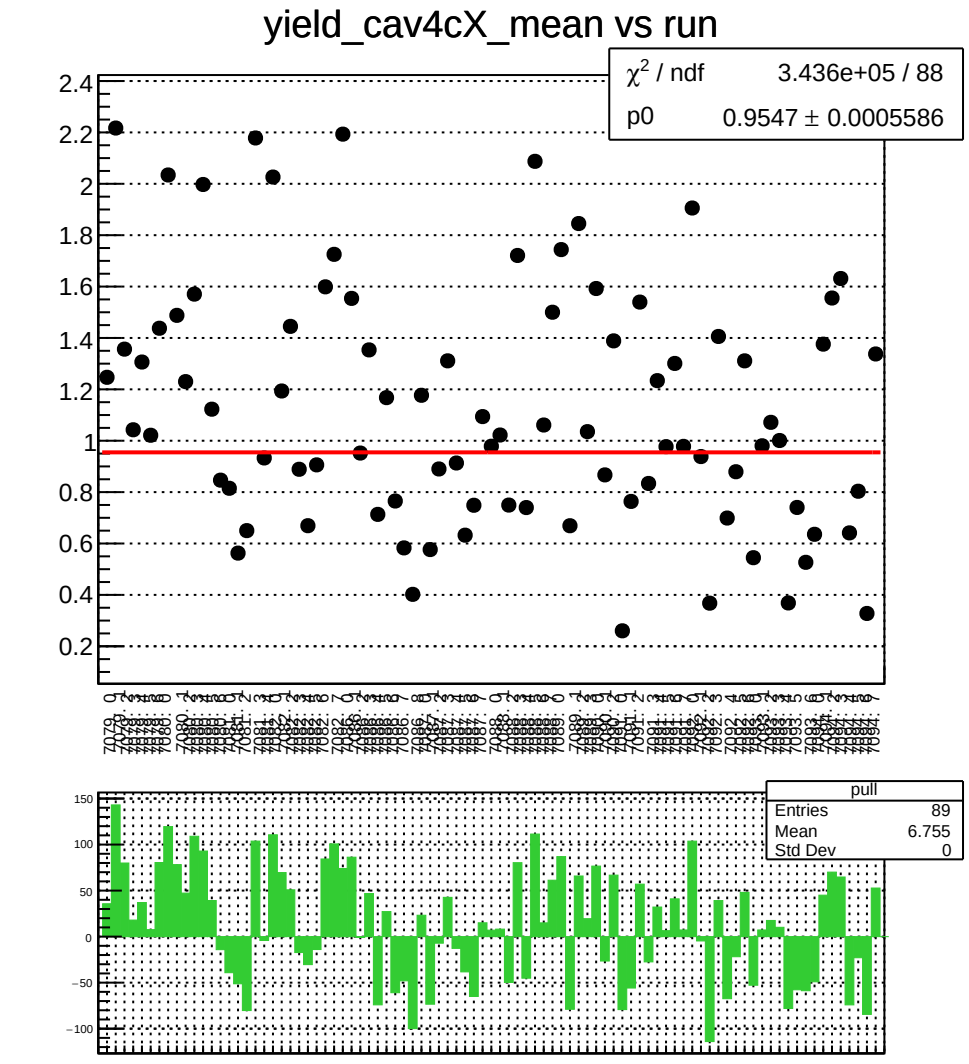

pull1D
Entries 89
Mean 1.759
Std Dev 3.062
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

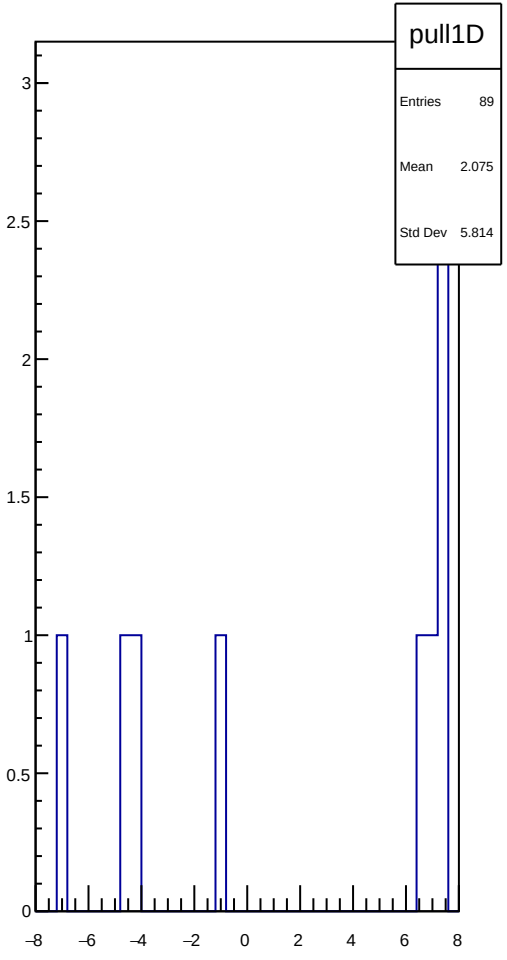

yield_cav4bX_rms vs run
χ² / ndf 2.569e+05 / 88
p0 1.077 ± 0.0009011
3.5
3
2.5
2
1.5
1
0.5

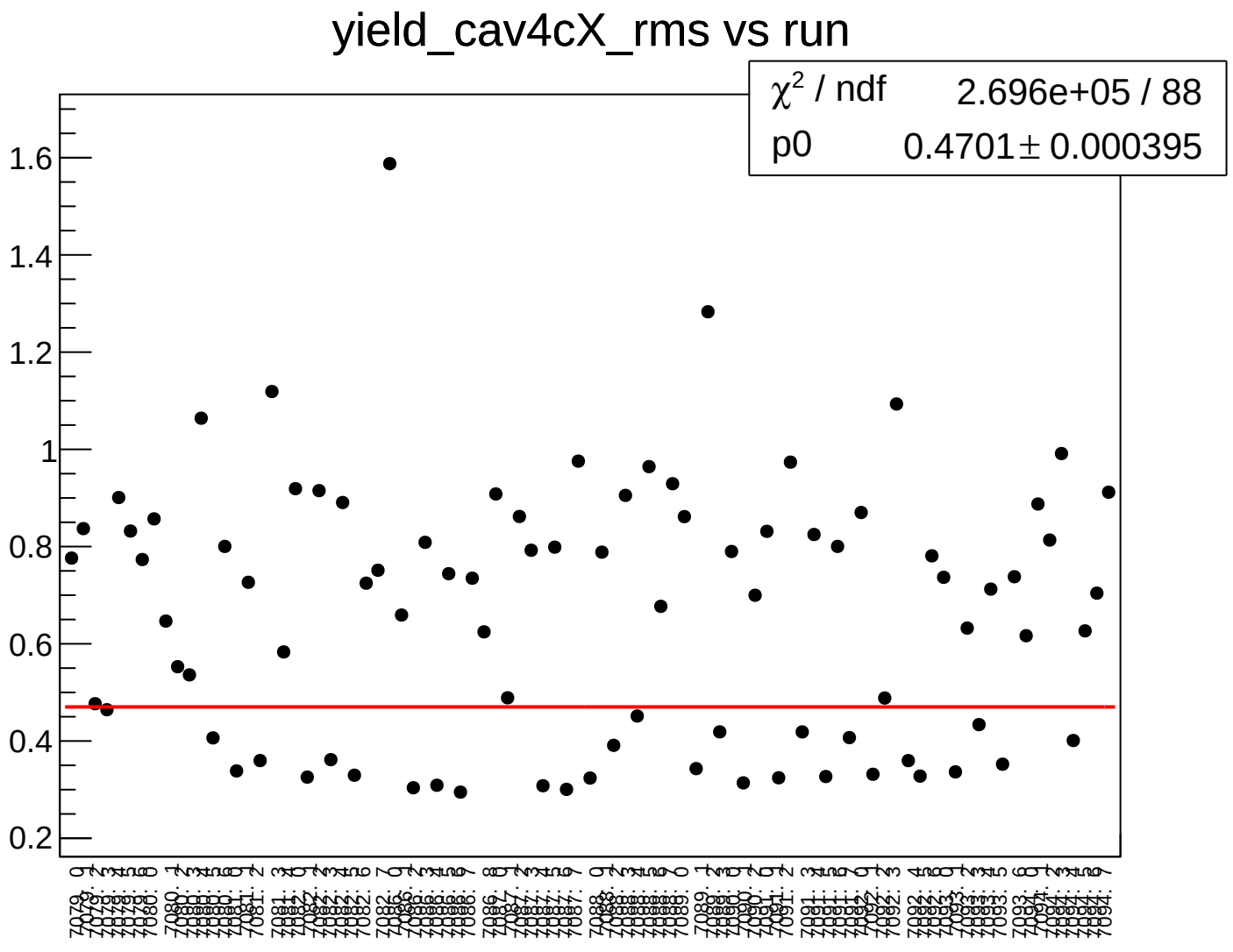

yield_cav4bY_mean vs run
χ² / ndf 1.815e+05 / 88
p0 −55.28 ± 0.0006797
−53
−53.5
−54
−54.5
−55
−55.5
−56
pull
Entries 89
Mean 7721
Std Dev 0
100
50
0
−50
−100

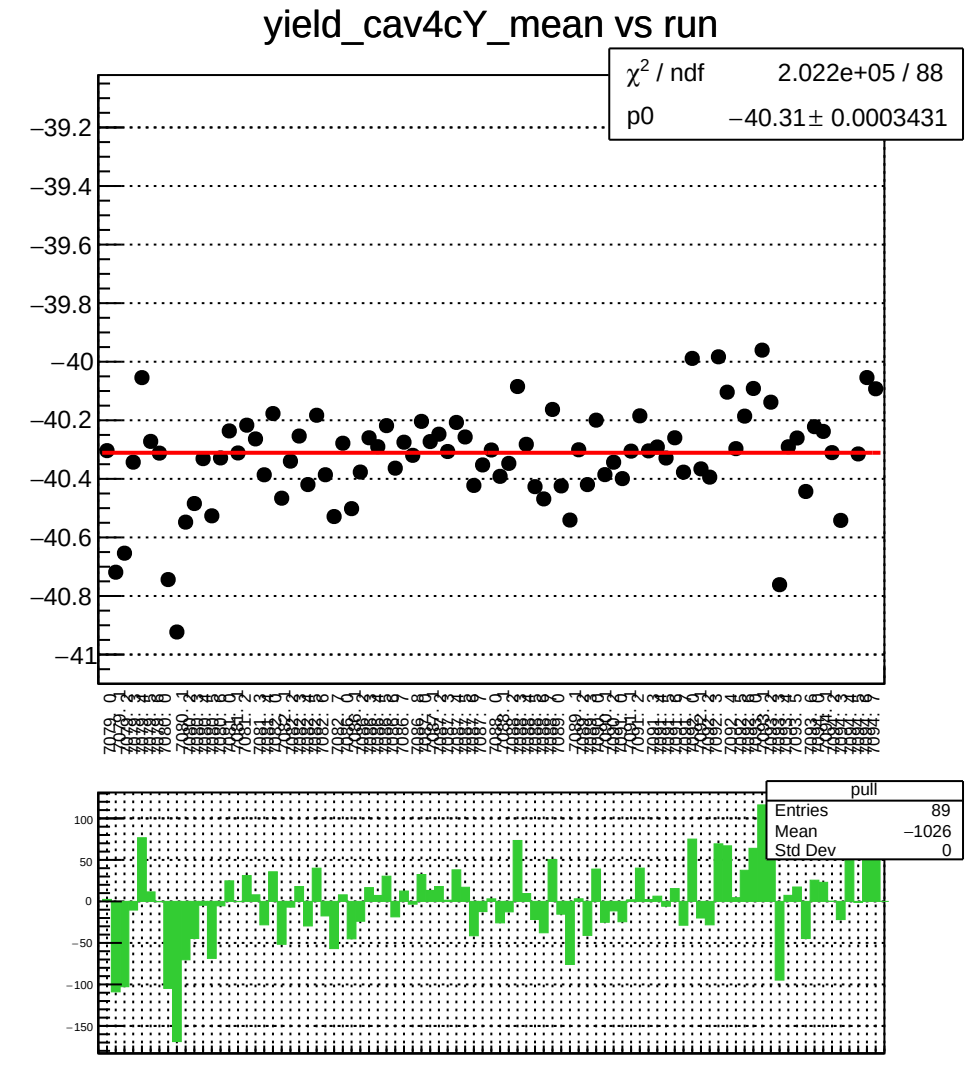

pull1D
Entries 89
Mean 0.2095
Std Dev 3.652
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

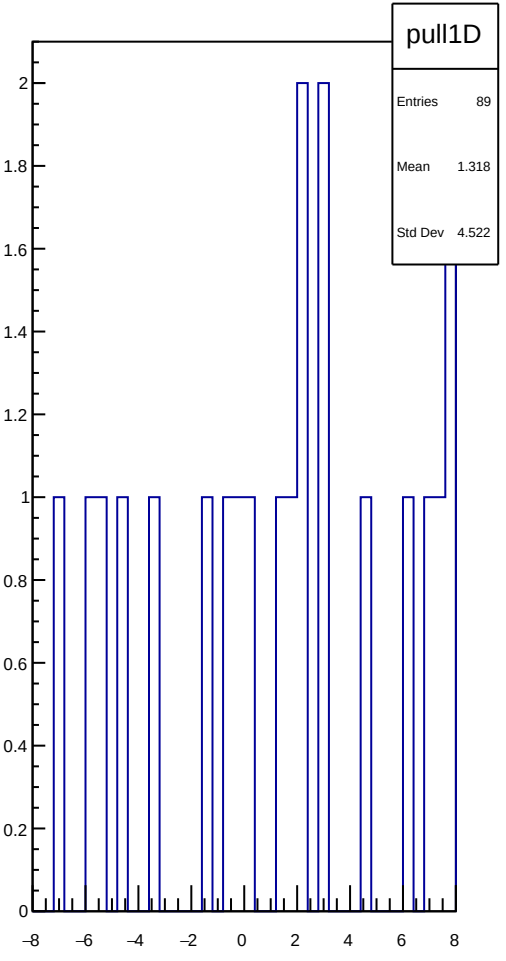

yield_cav4bY_rms vs run
χ² / ndf 5.197e+04 / 88
p0 0.6144 ± 0.0004806
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

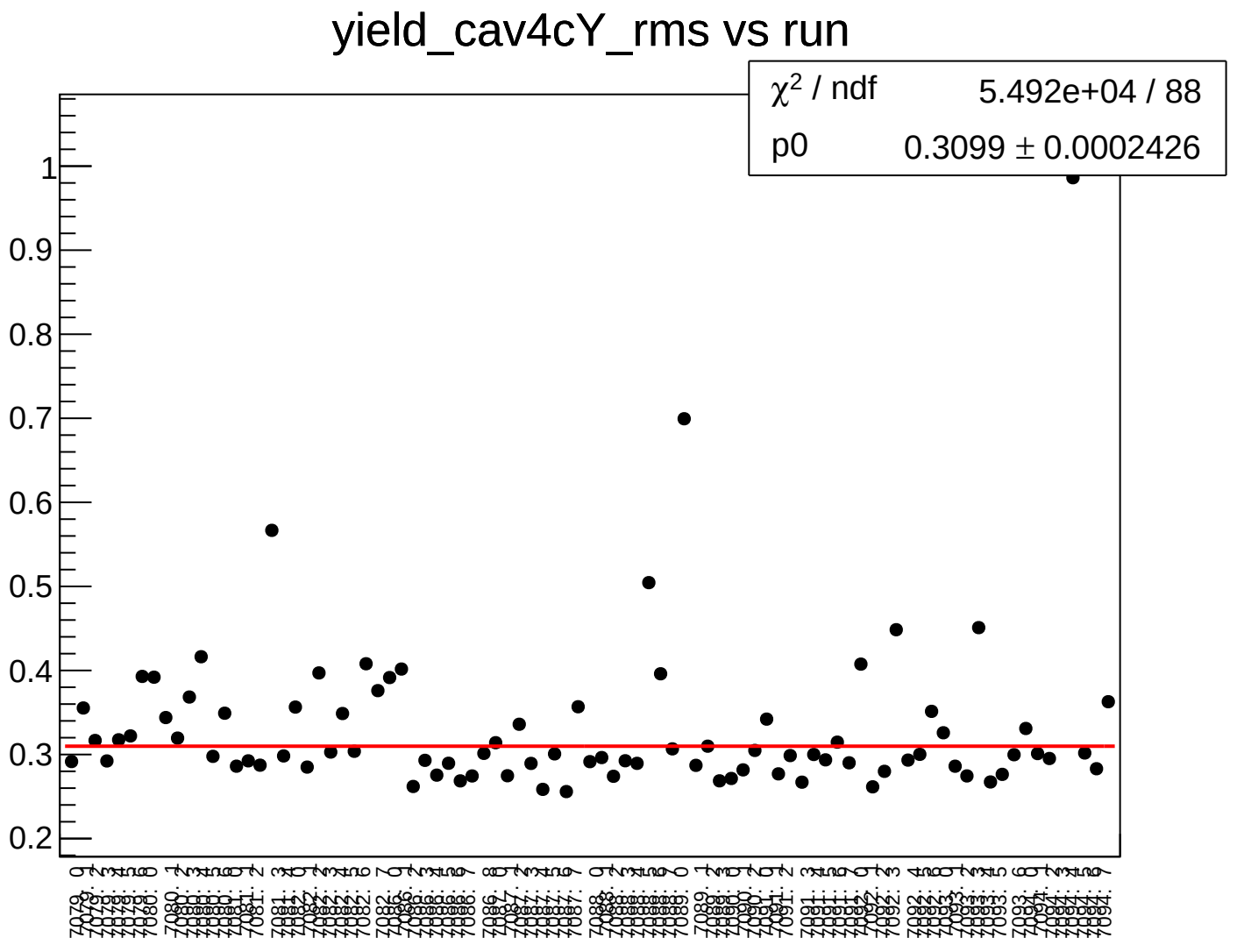

yield_cav4cX_mean vs run
χ² / ndf 3.436e+05 / 88
p0 0.9547 ± 0.0005586
pull
Entries 89
Mean 6.755
Std Dev 0

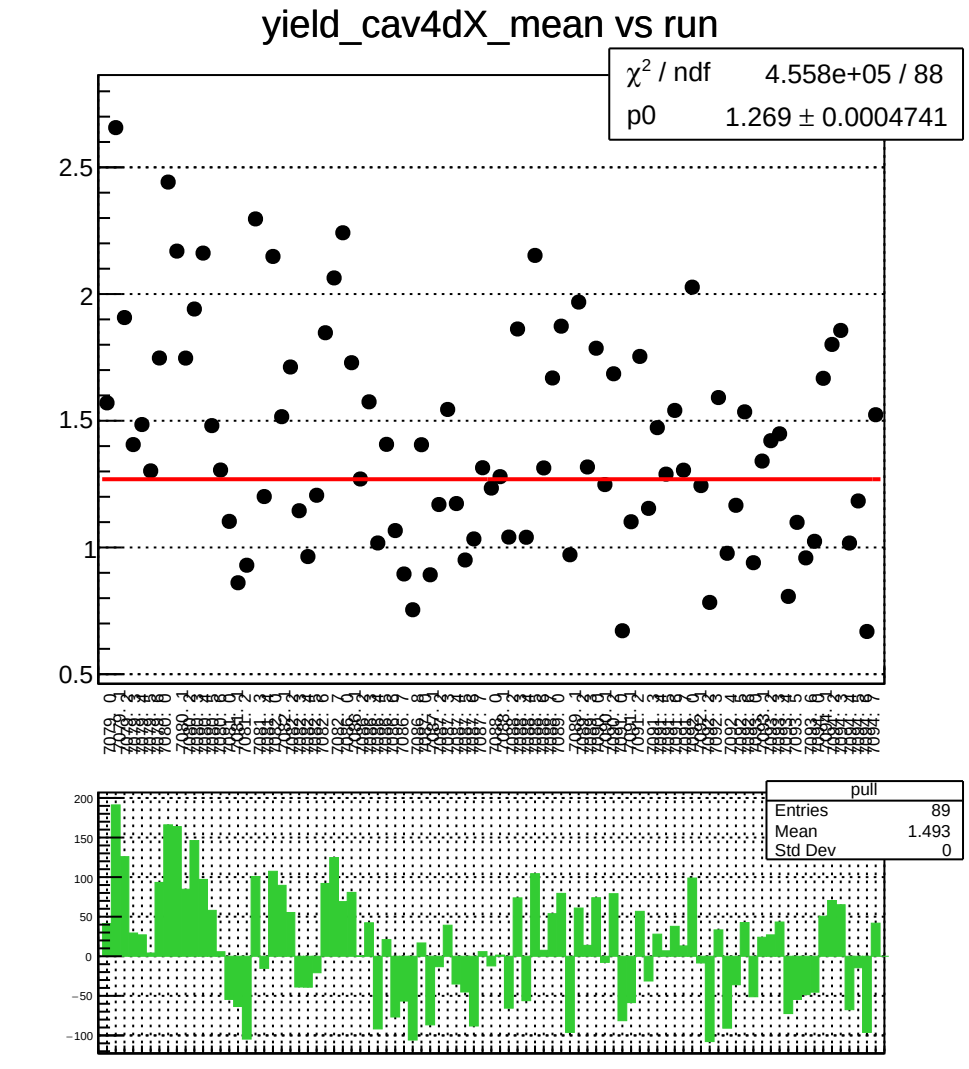

pull1D
Entries 89
Mean 2.075
Std Dev 5.814

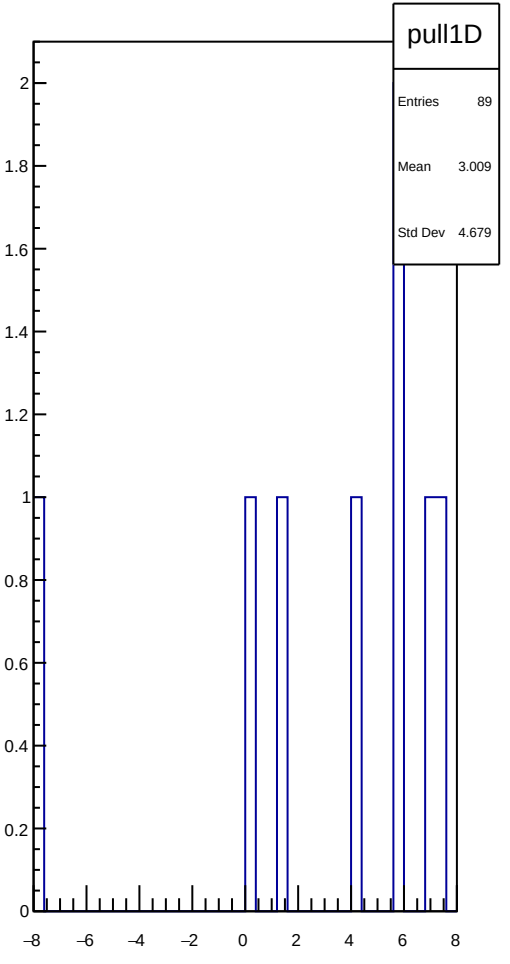

yield_cav4cX_rms vs run
χ^2 / ndf 2.696e+05 / 88
p0 0.4701 ± 0.000395
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

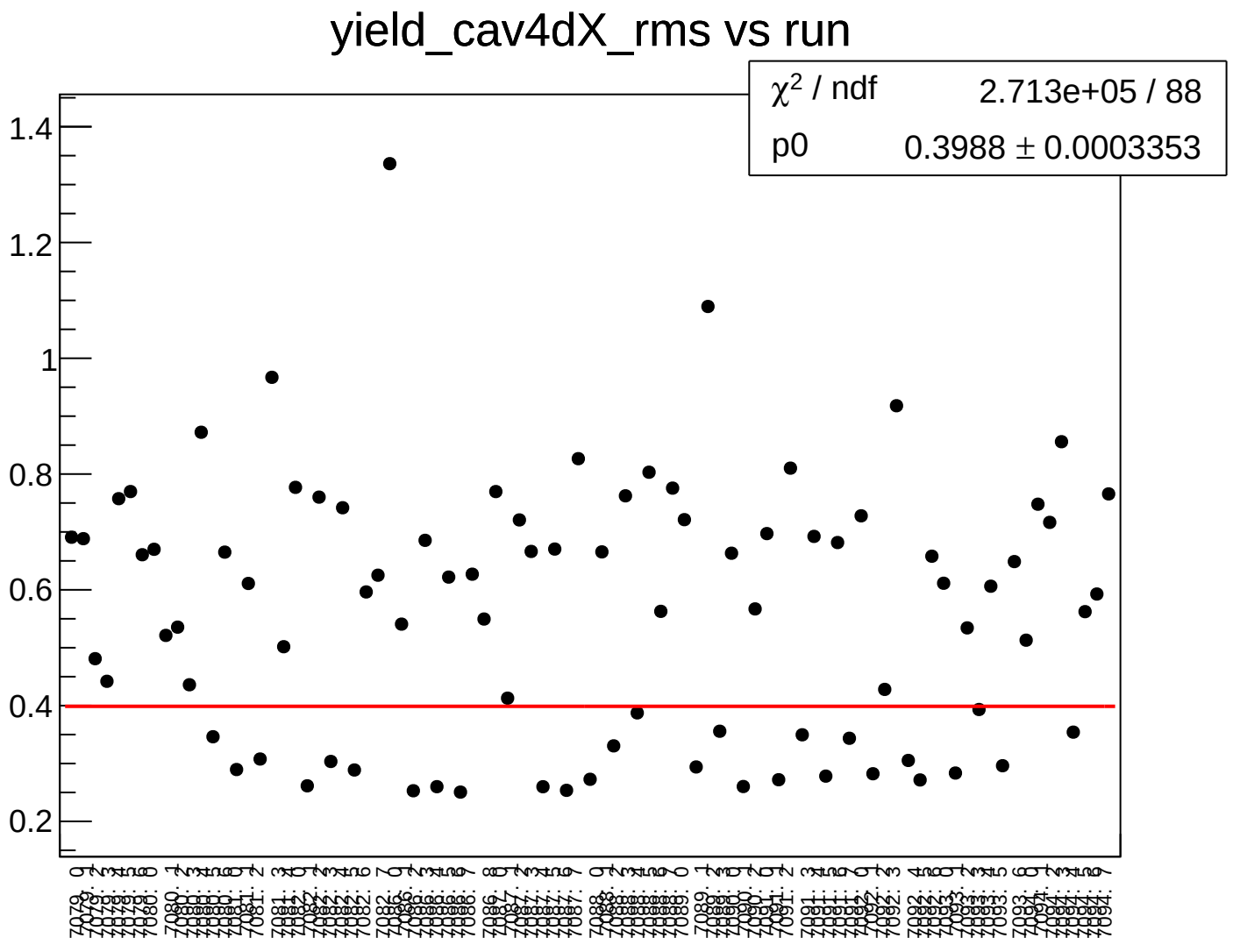

yield_cav4cY_mean vs run
χ² / ndf 2.022e+05 / 88
p0 −40.31± 0.0003431
−39.2
−39.4
−39.6
−39.8
−40
−40.2
−40.4
−40.6
−40.8
−41
pull
Entries 89
Mean −1026
Std Dev 0
100
50
0
−50
−100
−150

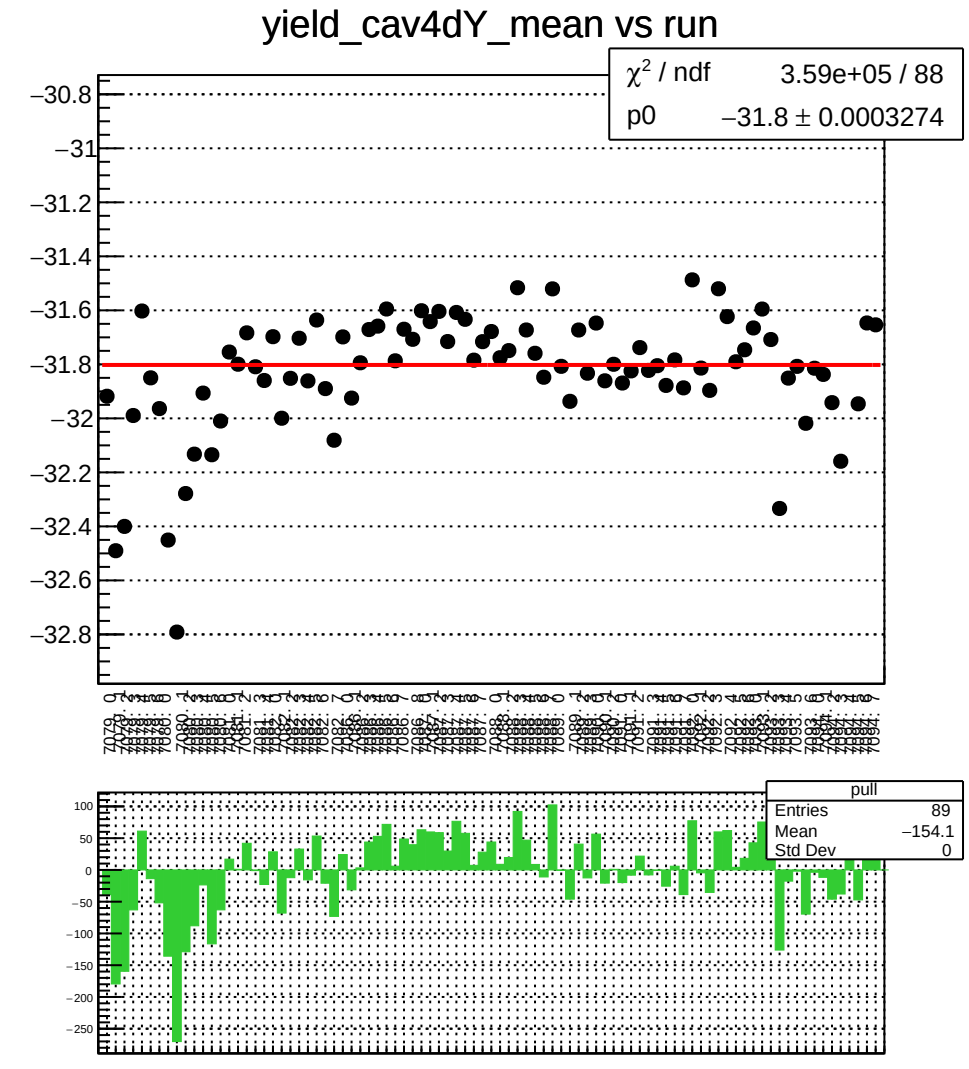

pull1D
Entries 89
Mean 1.318
Std Dev 4.522
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

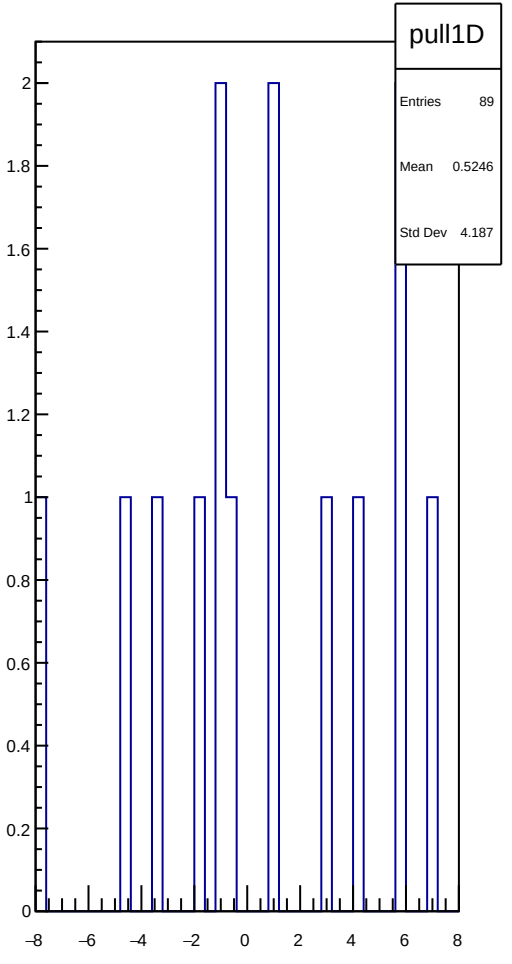

yield_cav4cY_rms vs run
χ² / ndf 5.492e+04 / 88
p0 0.3099 ± 0.0002426
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

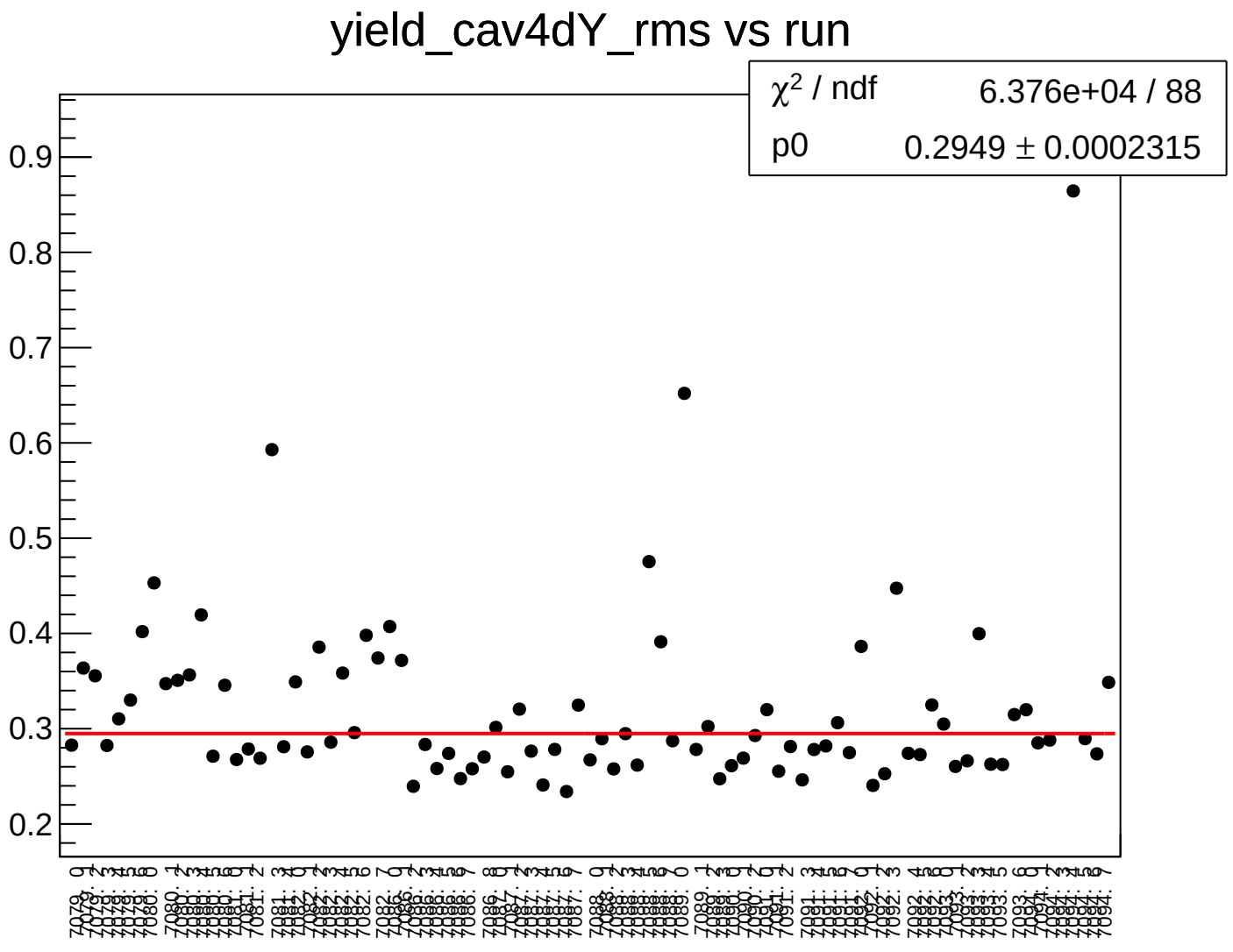

yield_cav4dX_mean vs run
χ² / ndf 4.558e+05 / 88
p0 1.269 ± 0.0004741
2.5
2
1.5
1
0.5
pull
Entries 89
Mean 1.493
Std Dev 0
200
150
100
50
0
−50
−100

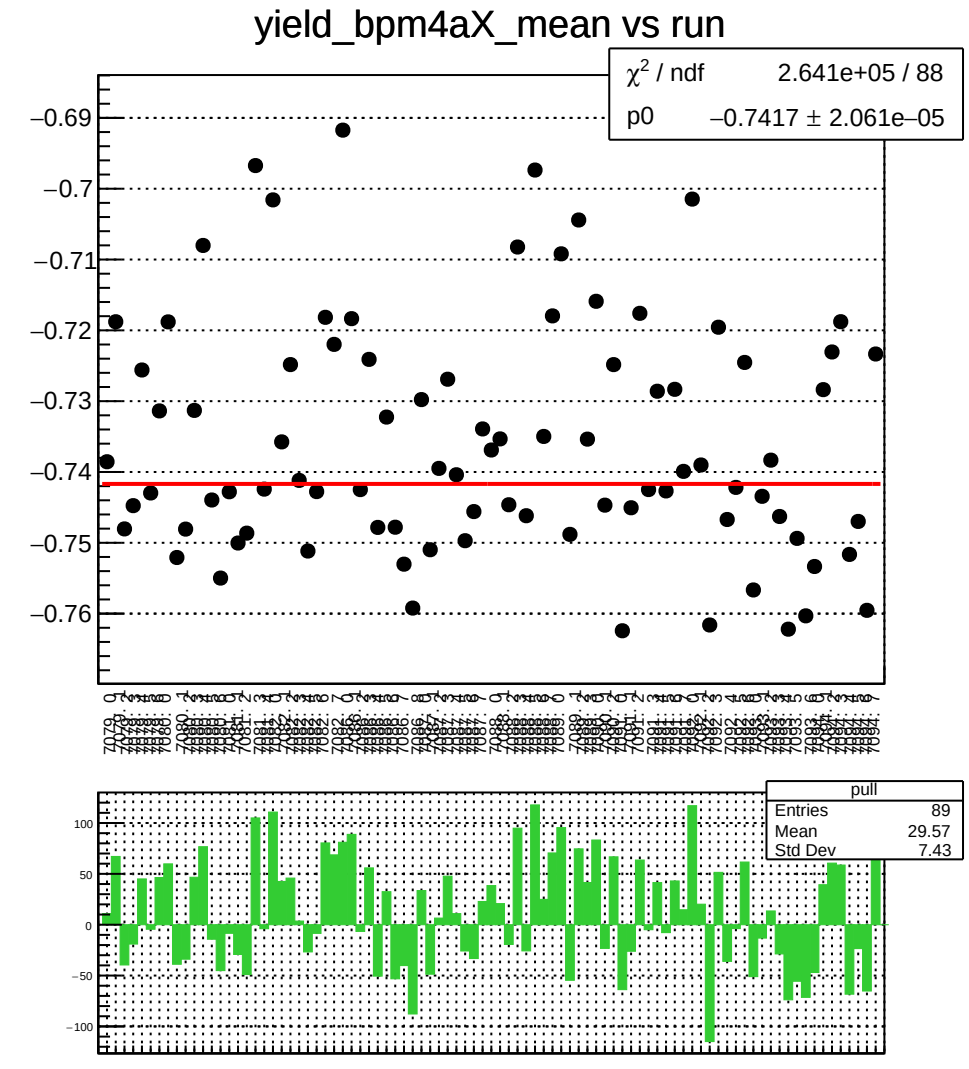

pull1D
Entries 89
Mean 3.009
Std Dev 4.679
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

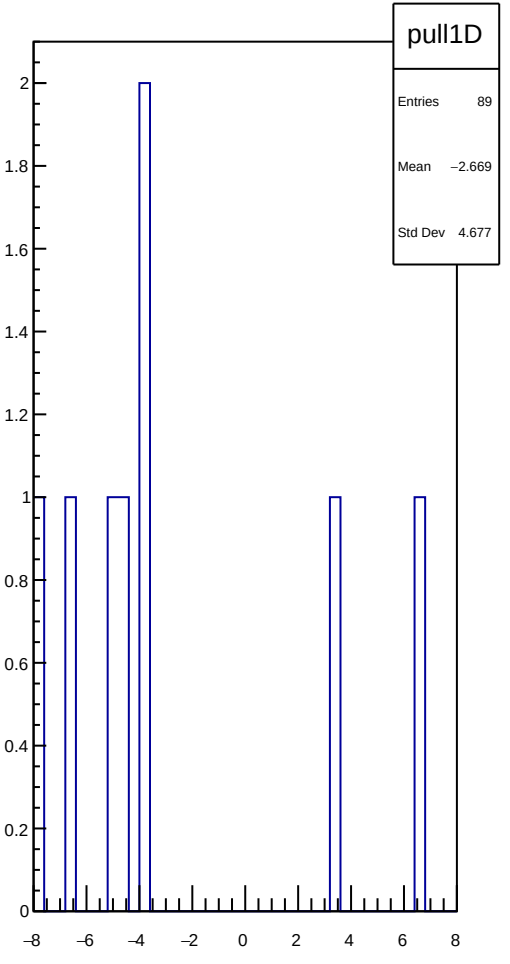

yield_cav4dX_rms vs run
χ² / ndf 2.713e+05 / 88
p0 0.3988 ± 0.0003353
1.4
1.2
1
0.8
0.6
0.4
0.2

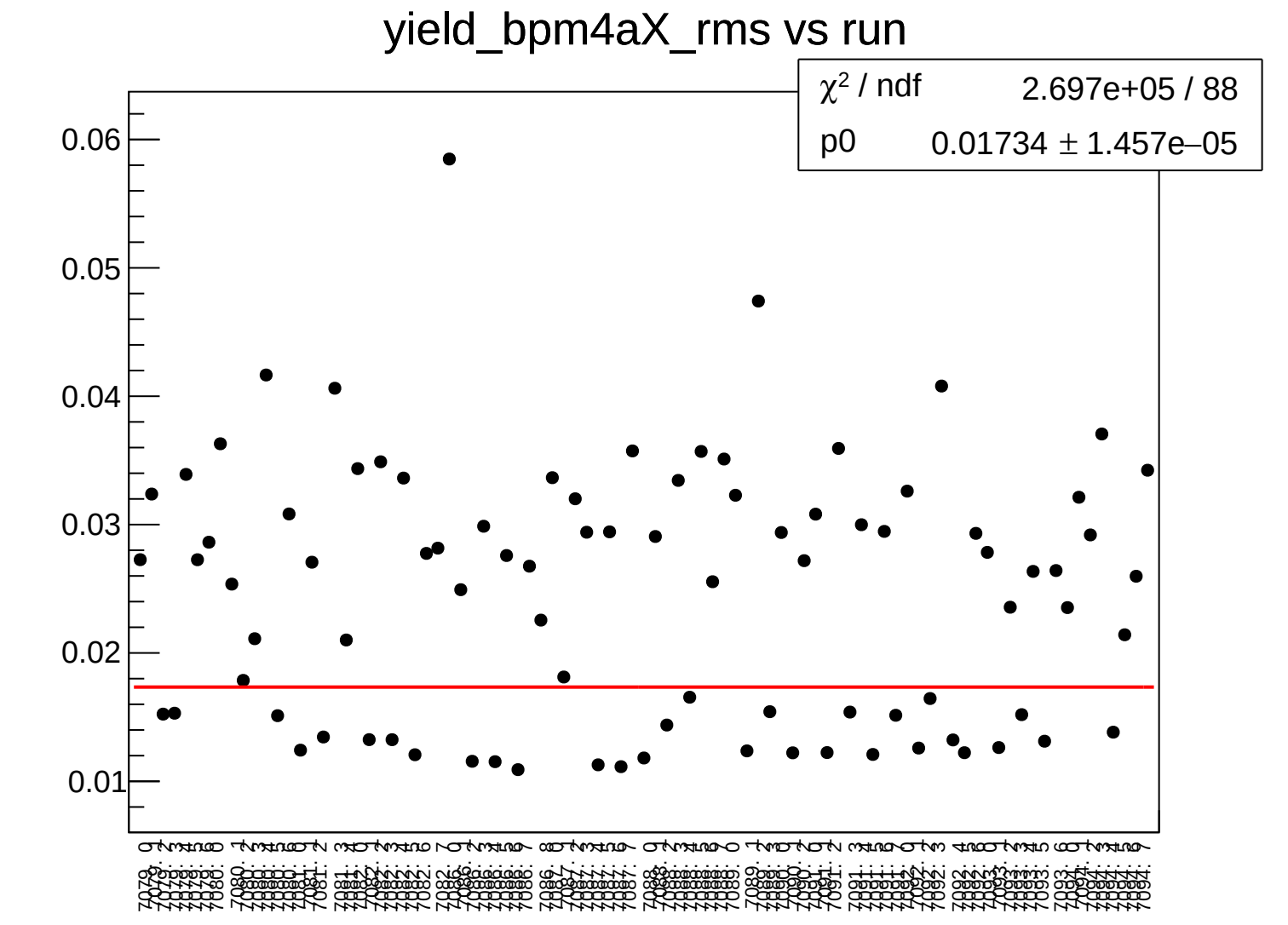

yield_cav4dY_mean vs run
χ² / ndf 3.59e+05 / 88
p0 −31.8 ± 0.0003274
−30.8
−31
−31.2
−31.4
−31.6
−31.8
−32
−32.2
−32.4
−32.6
−32.8
pull
Entries 89
Mean −154.1
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

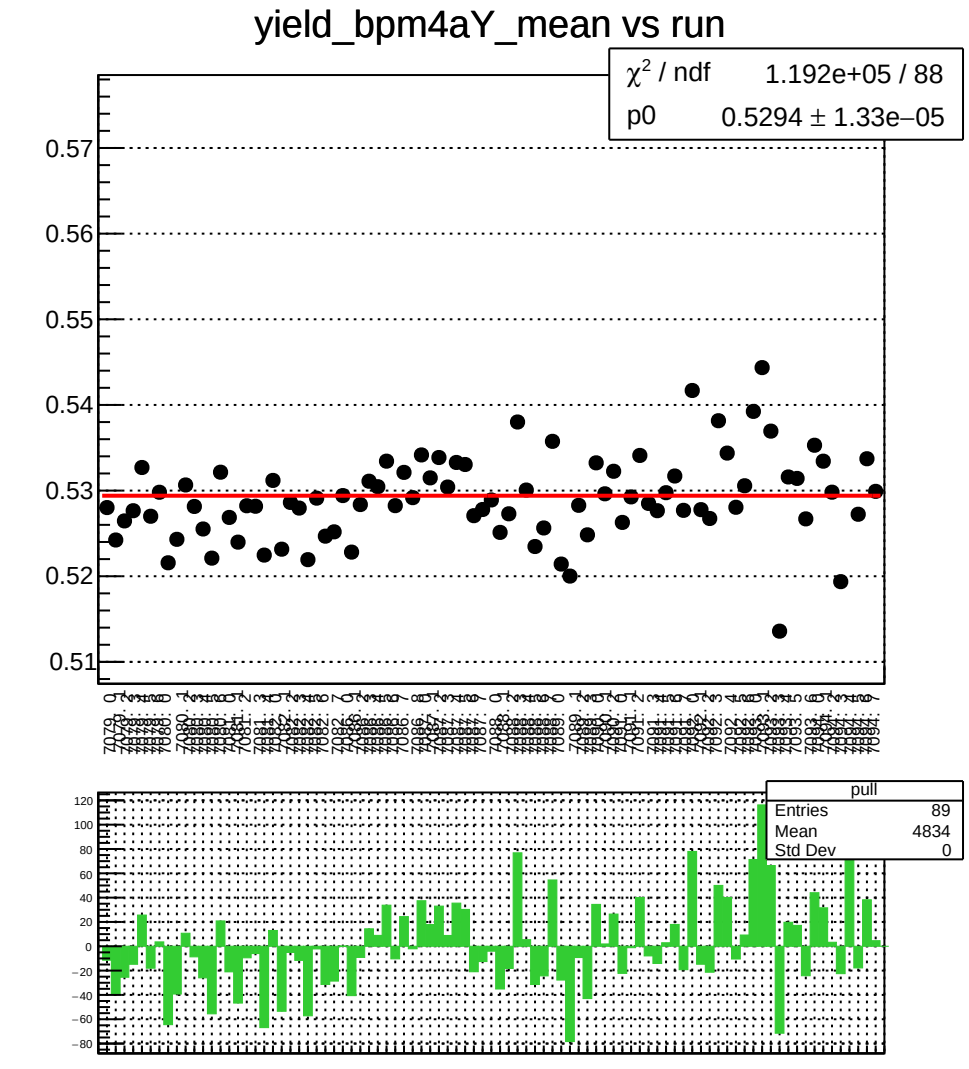

pull1D
Entries 89
Mean 0.5246
Std Dev 4.187
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

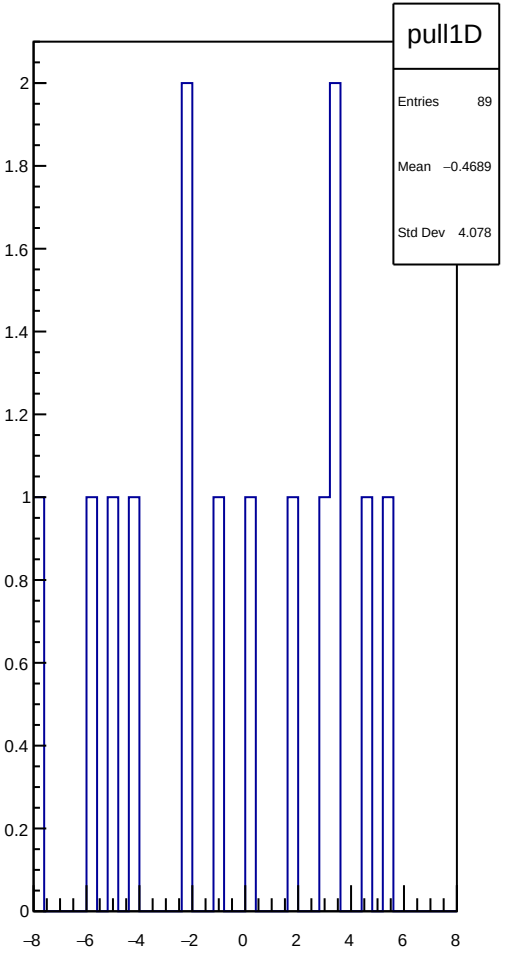

yield_cav4dY_rms vs run
χ² / ndf 6.376e+04 / 88
p0 0.2949 ± 0.0002315
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

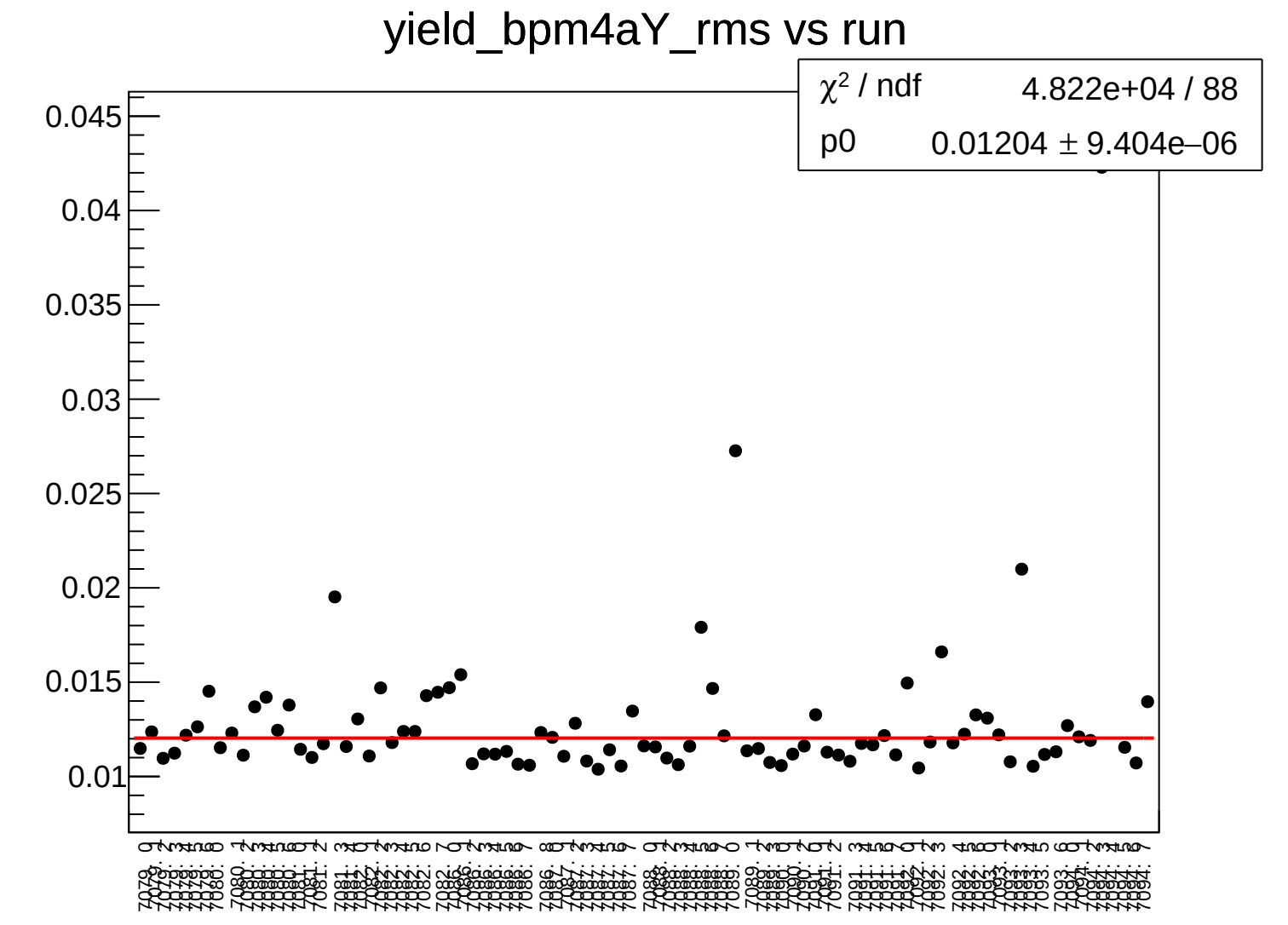

yield_bpm4aX_mean vs run
χ² / ndf 2.641e+05 / 88
p0 −0.7417 ± 2.061e−05
−0.69
−0.7
−0.71
−0.72
−0.73
−0.74
−0.75
−0.76
pull
Entries 89
Mean 29.57
Std Dev 7.43
100
50
0
−50
−100

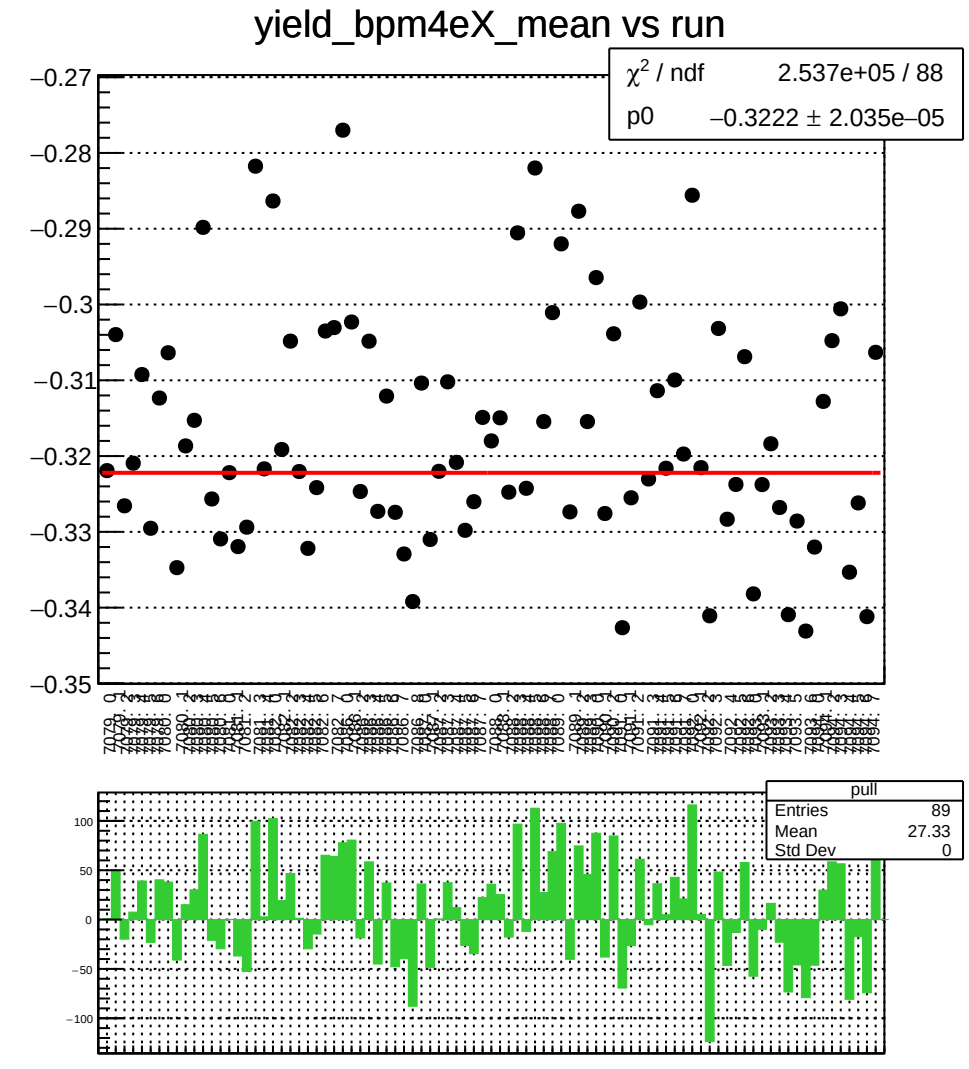

pull1D
Entries 89
Mean −2.669
Std Dev 4.677
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

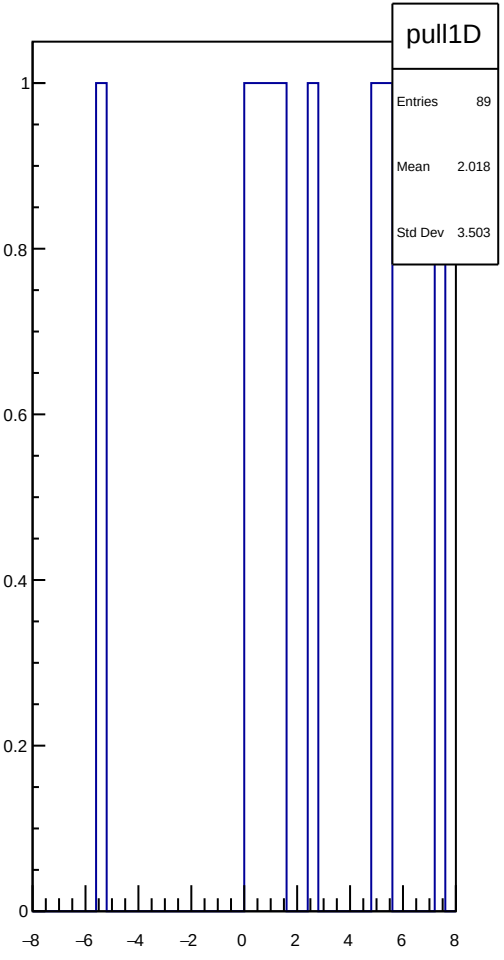

yield_bpm4aX_rms vs run
χ² / ndf 2.697e+05 / 88
p0 0.01734 ± 1.457e–05
0.06
0.05
0.04
0.03
0.02
0.01

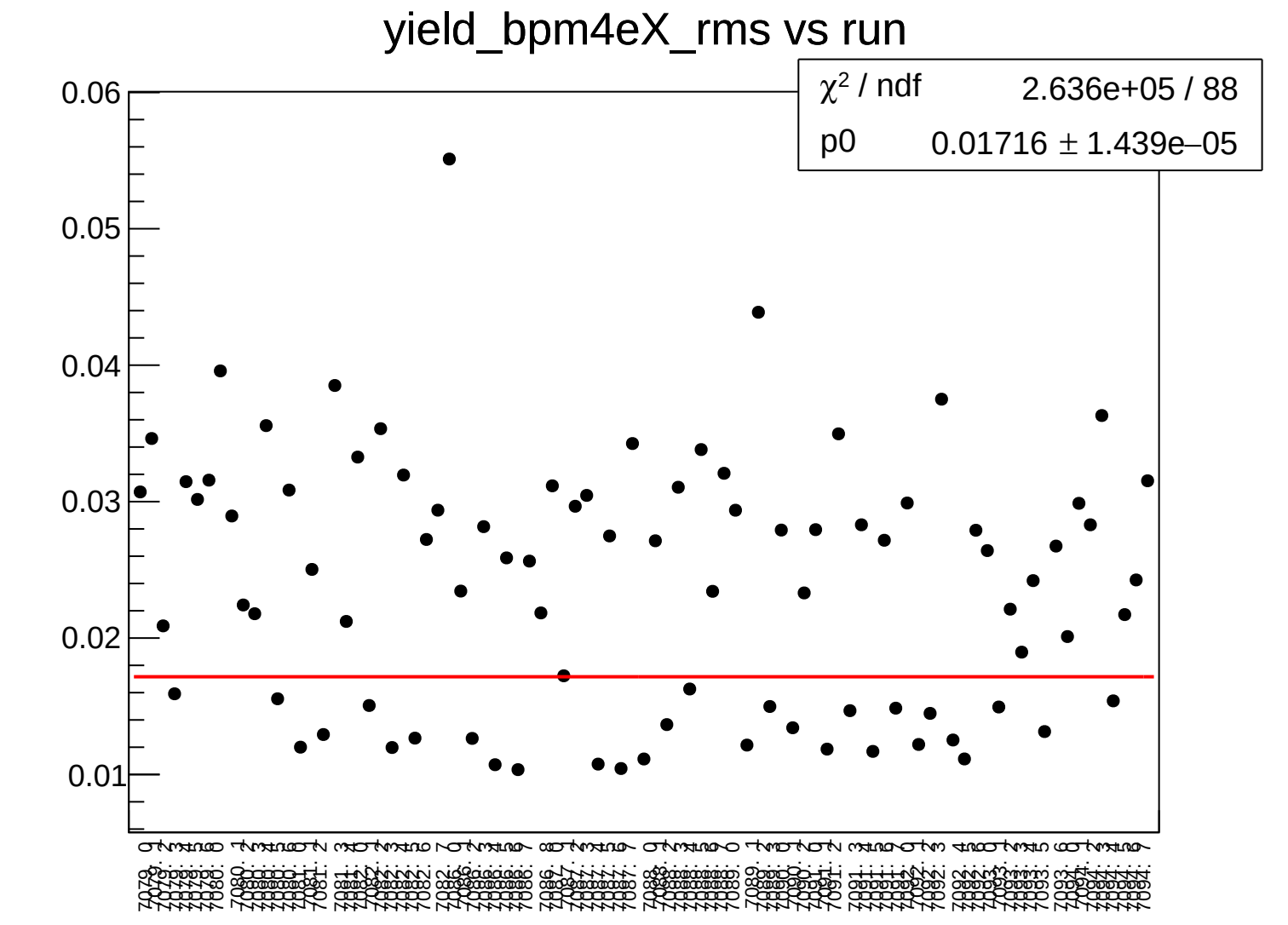

yield_bpm4aY_mean vs run
χ² / ndf 1.192e+05 / 88
p0 0.5294 ± 1.33e−05
0.57
0.56
0.55
0.54
0.53
0.52
0.51
pull
Entries 89
Mean 4834
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

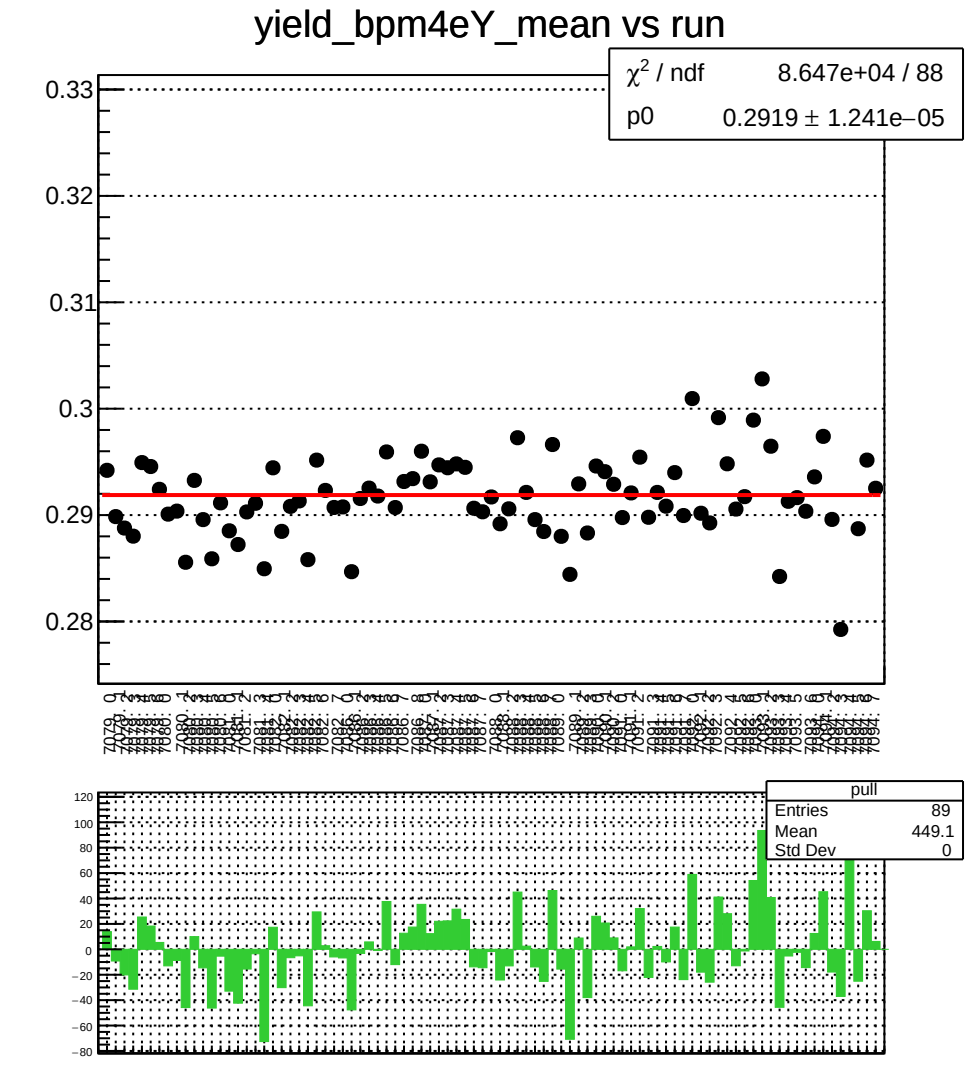

pull1D
Entries 89
Mean −0.4689
Std Dev 4.078
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

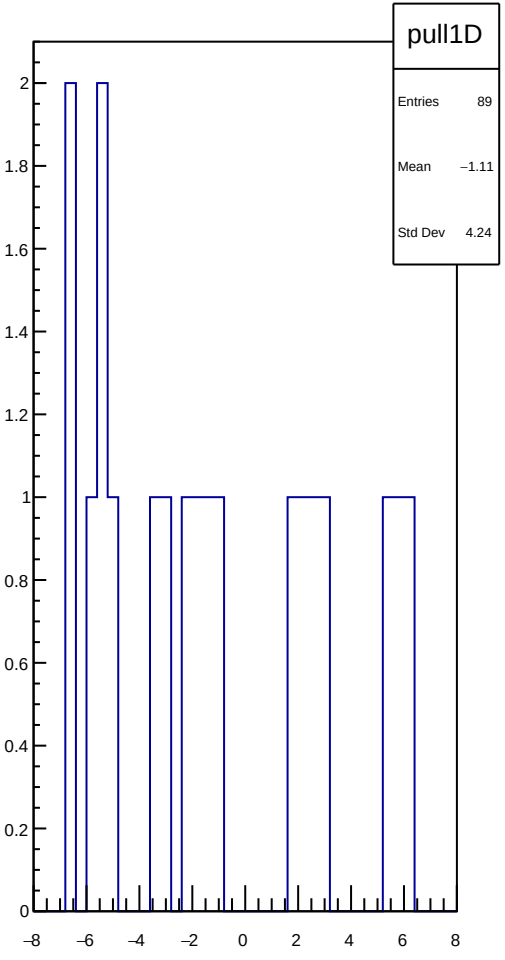

yield_bpm4aY_rms vs run
χ² / ndf 4.822e+04 / 88
p0 0.01204 ± 9.404e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

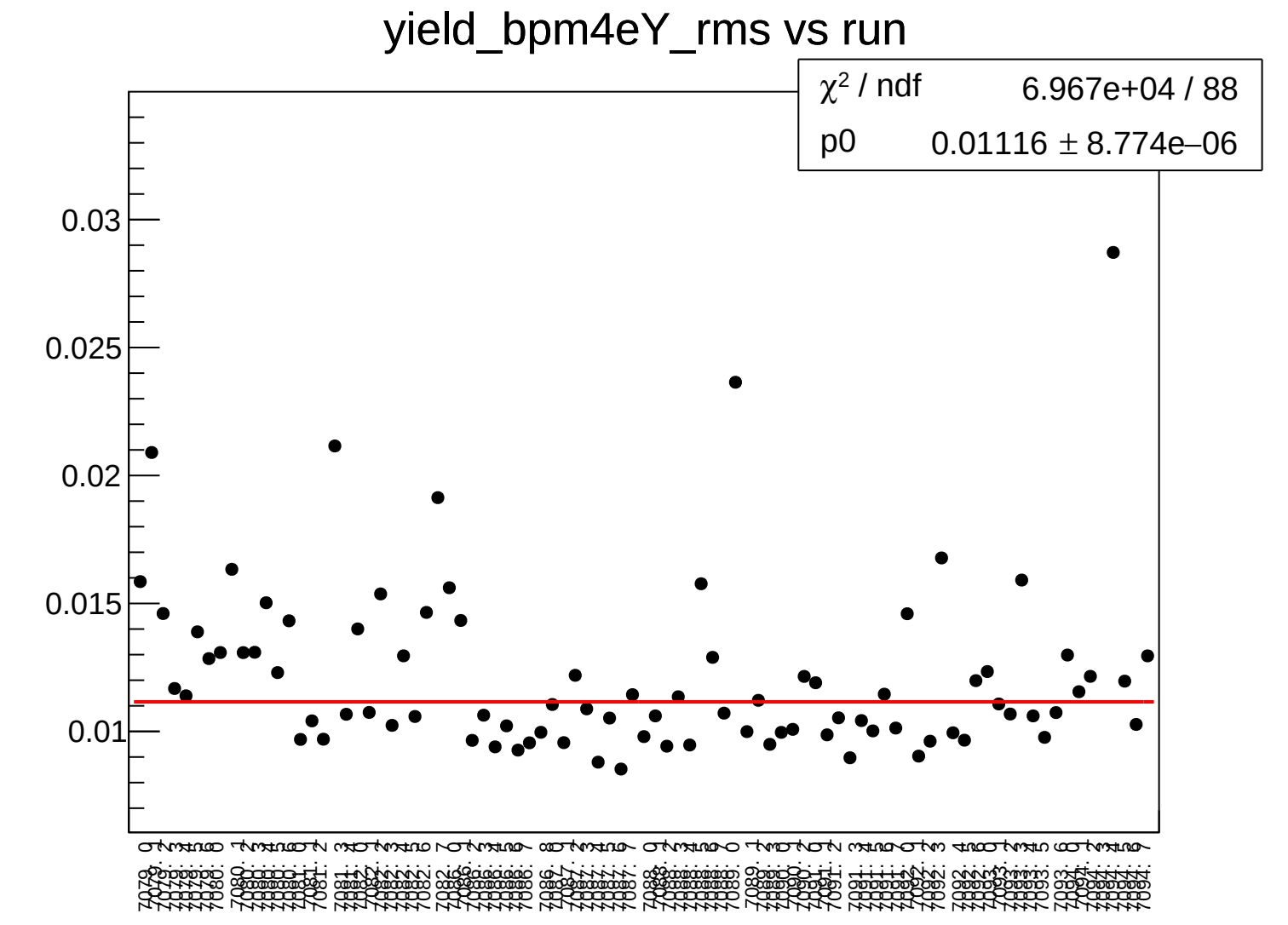

yield_bpm4eX_mean vs run
χ² / ndf 2.537e+05 / 88
p0 −0.3222 ± 2.035e−05
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
−0.35
pull
Entries 89
Mean 27.33
Std Dev 0
100
50
0
−50
−100

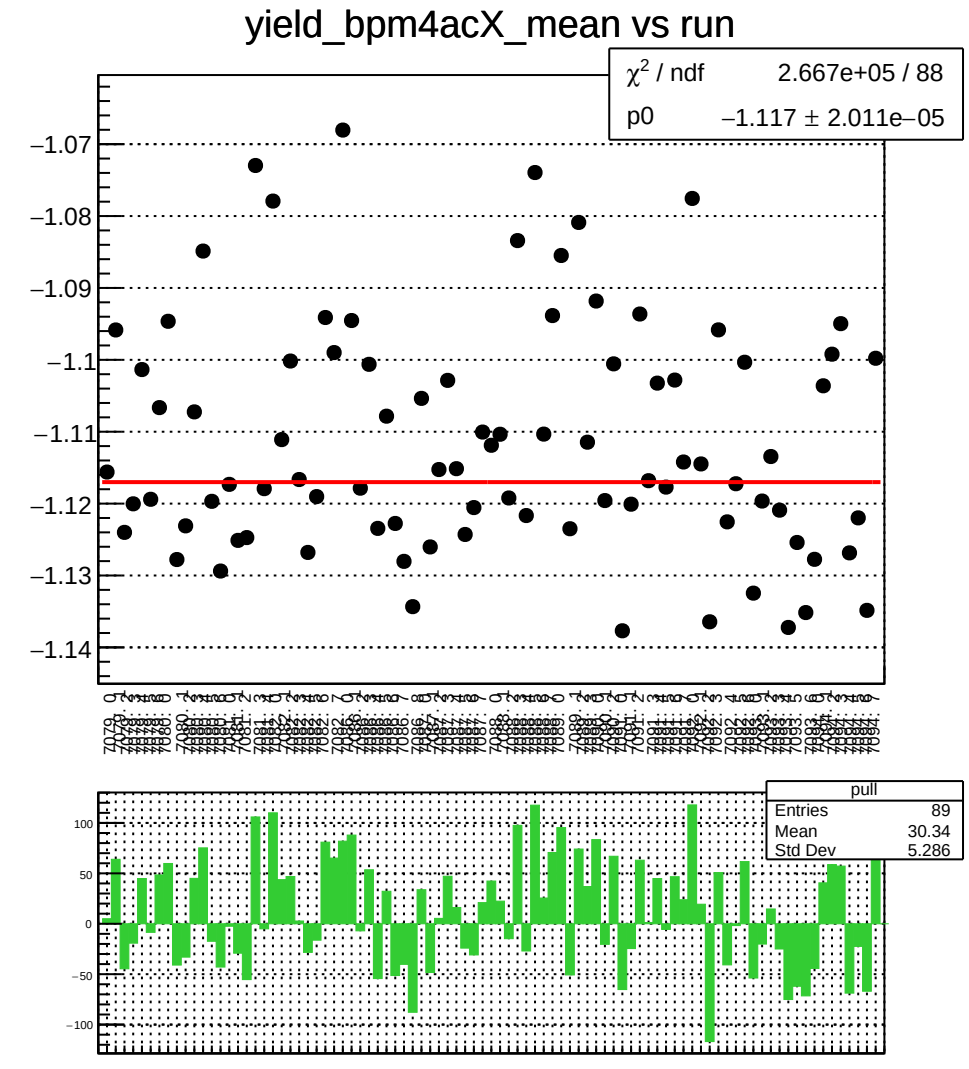

pull1D
Entries 89
Mean 2.018
Std Dev 3.503
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

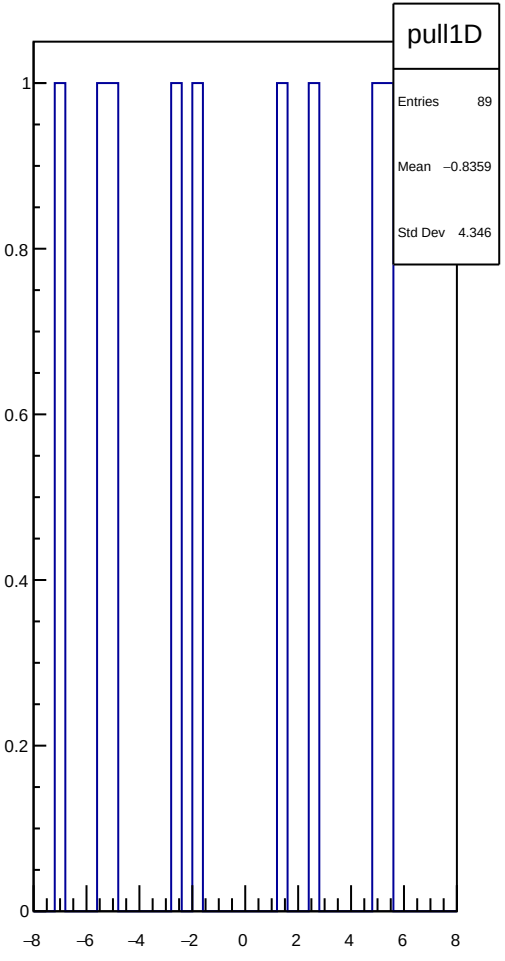

yield_bpm4eX_rms vs run
χ² / ndf 2.636e+05 / 88
p0 0.01716 ± 1.439e–05
0.06
0.05
0.04
0.03
0.02
0.01

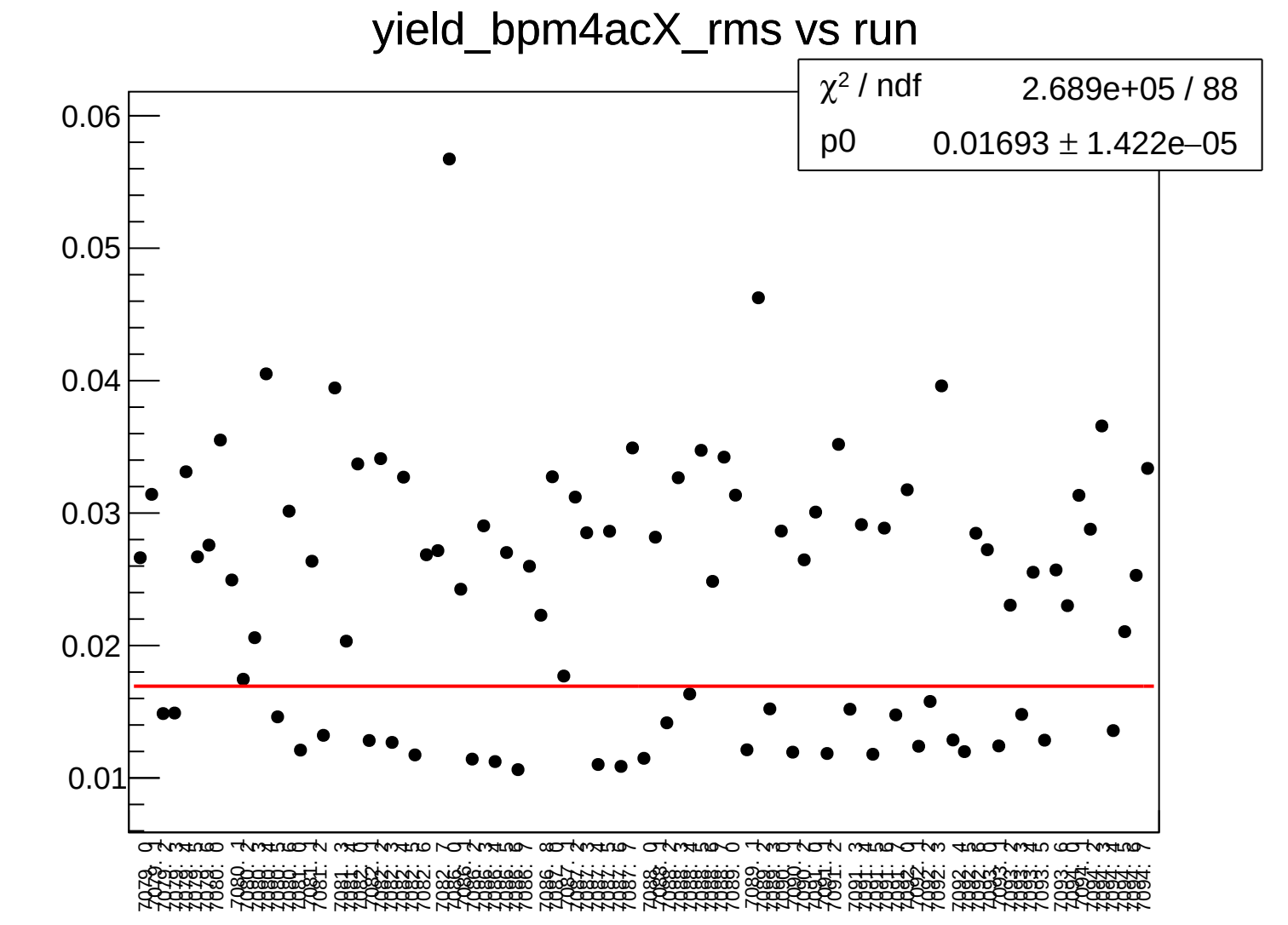

yield_bpm4eY_mean vs run
χ² / ndf 8.647e+04 / 88
p0 0.2919 ± 1.241e−05
0.33
0.32
0.31
0.3
0.29
0.28
pull
Entries 89
Mean 449.1
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

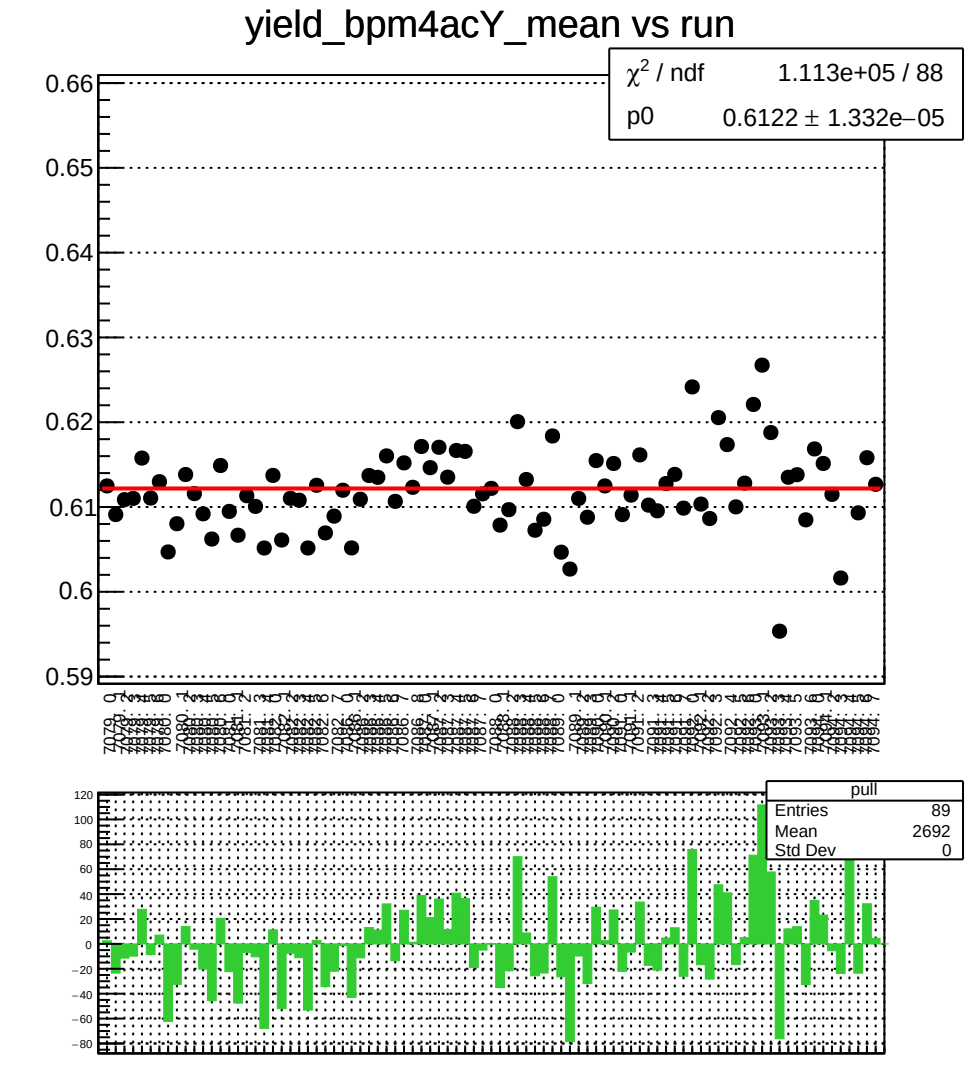

pull1D
Entries 89
Mean −1.11
Std Dev 4.24
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

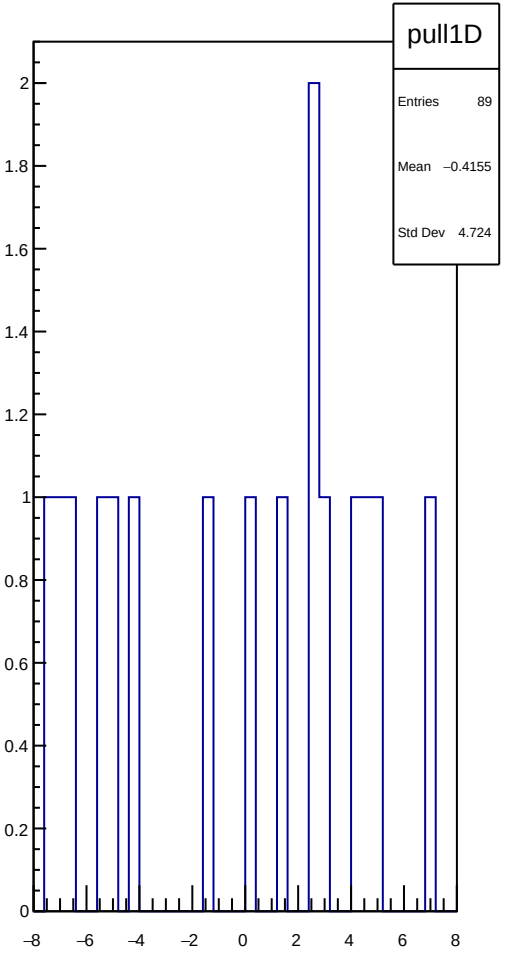

yield_bpm4eY_rms vs run
χ² / ndf 6.967e+04 / 88
p0 0.01116 ± 8.774e–06
0.03
0.025
0.02
0.015
0.01

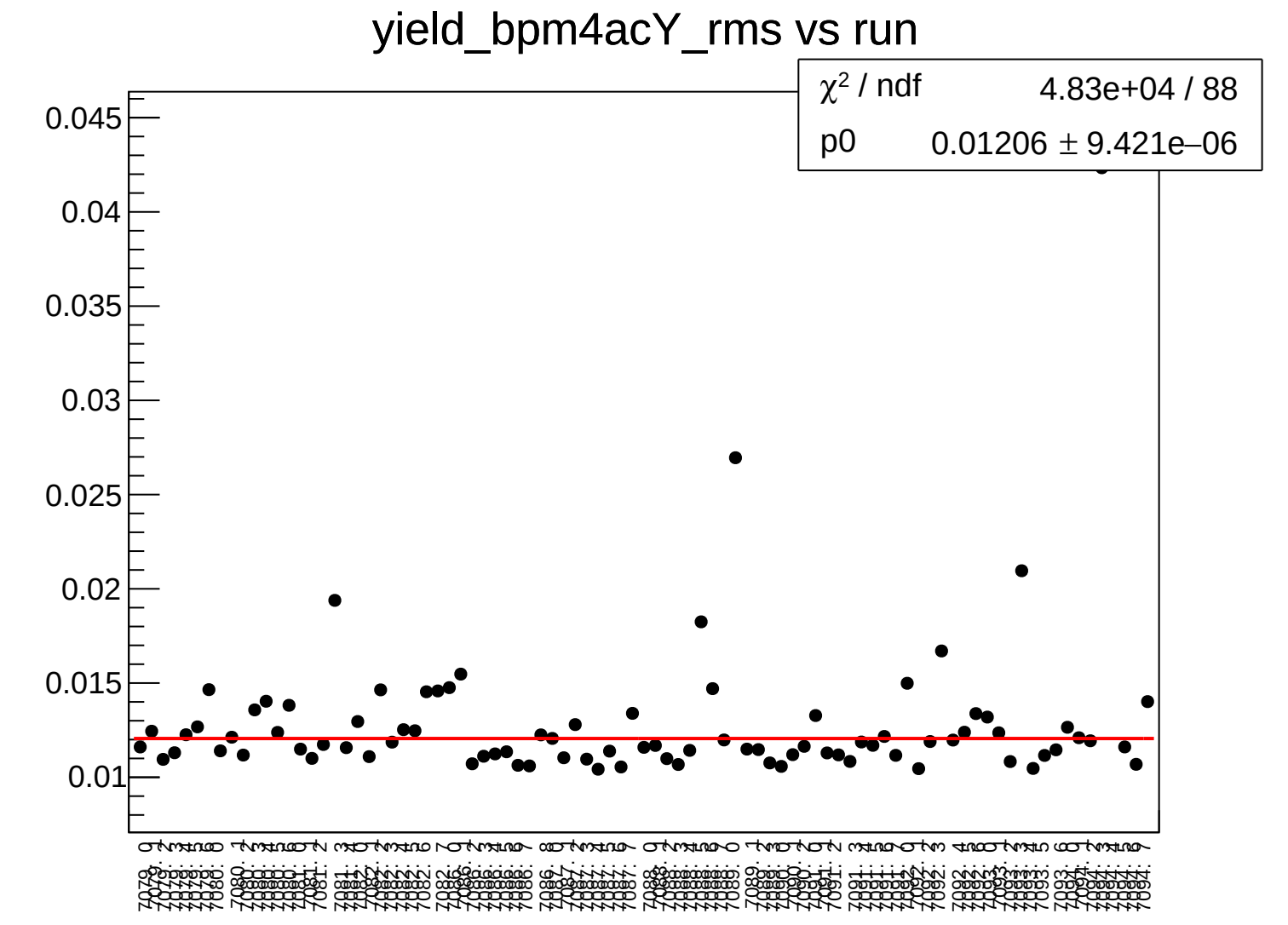

yield_bpm4acX_mean vs run
χ² / ndf 2.667e+05 / 88
p0 −1.117 ± 2.011e−05
−1.07
−1.08
−1.09
−1.1
−1.11
−1.12
−1.13
−1.14
pull
Entries 89
Mean 30.34
Std Dev 5.286
100
50
0
−50
−100

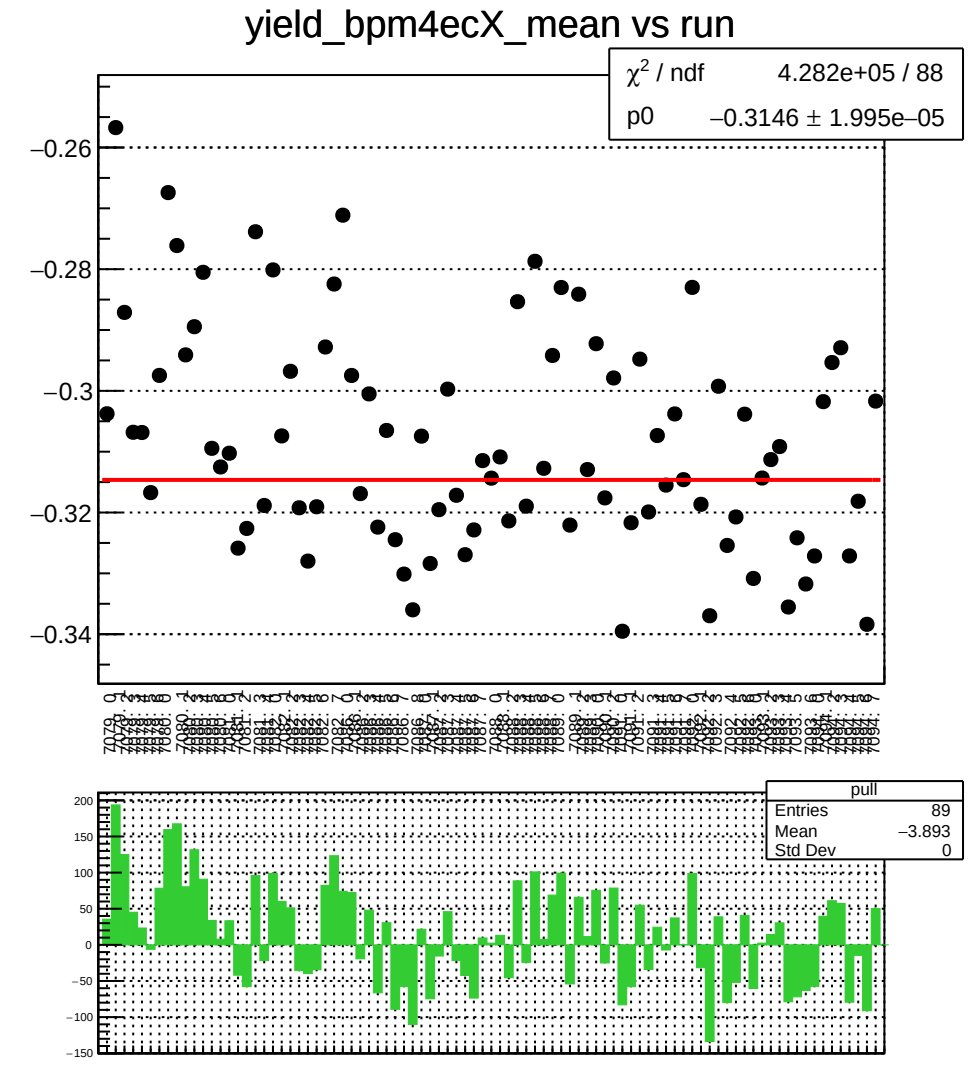

pull1D
Entries 89
Mean −0.8359
Std Dev 4.346
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

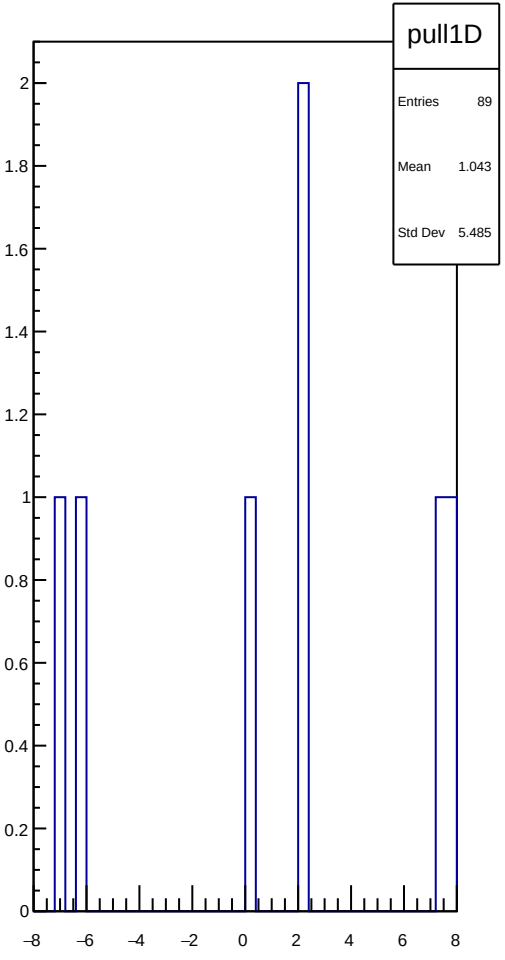

yield_bpm4acX_rms vs run
χ² / ndf 2.689e+05 / 88
p0 0.01693 ± 1.422e−05
0.06
0.05
0.04
0.03
0.02
0.01

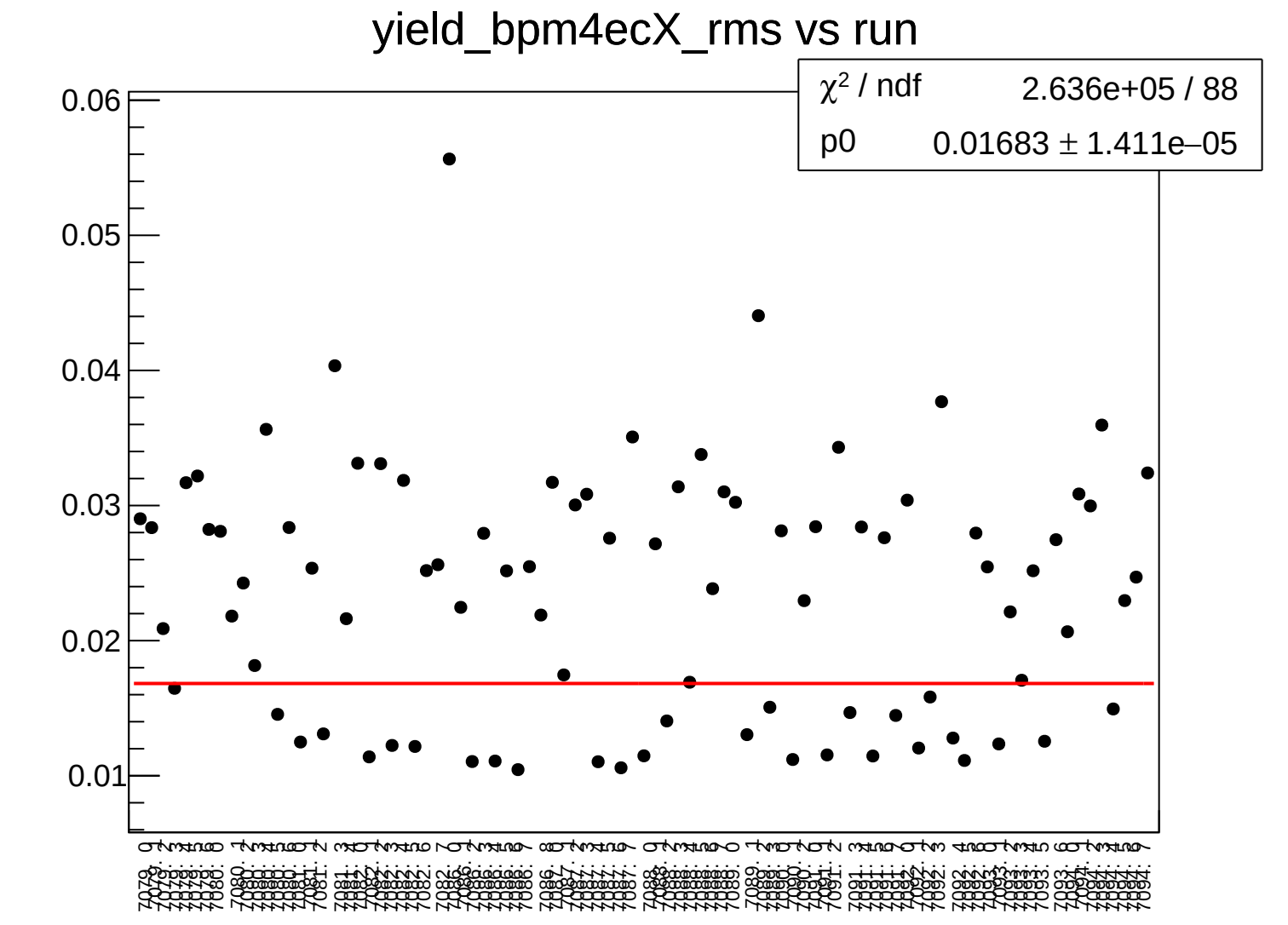

yield_bpm4acY_mean vs run
χ² / ndf 1.113e+05 / 88
p0 0.6122 ± 1.332e−05
pull
Entries 89
Mean 2692
Std Dev 0

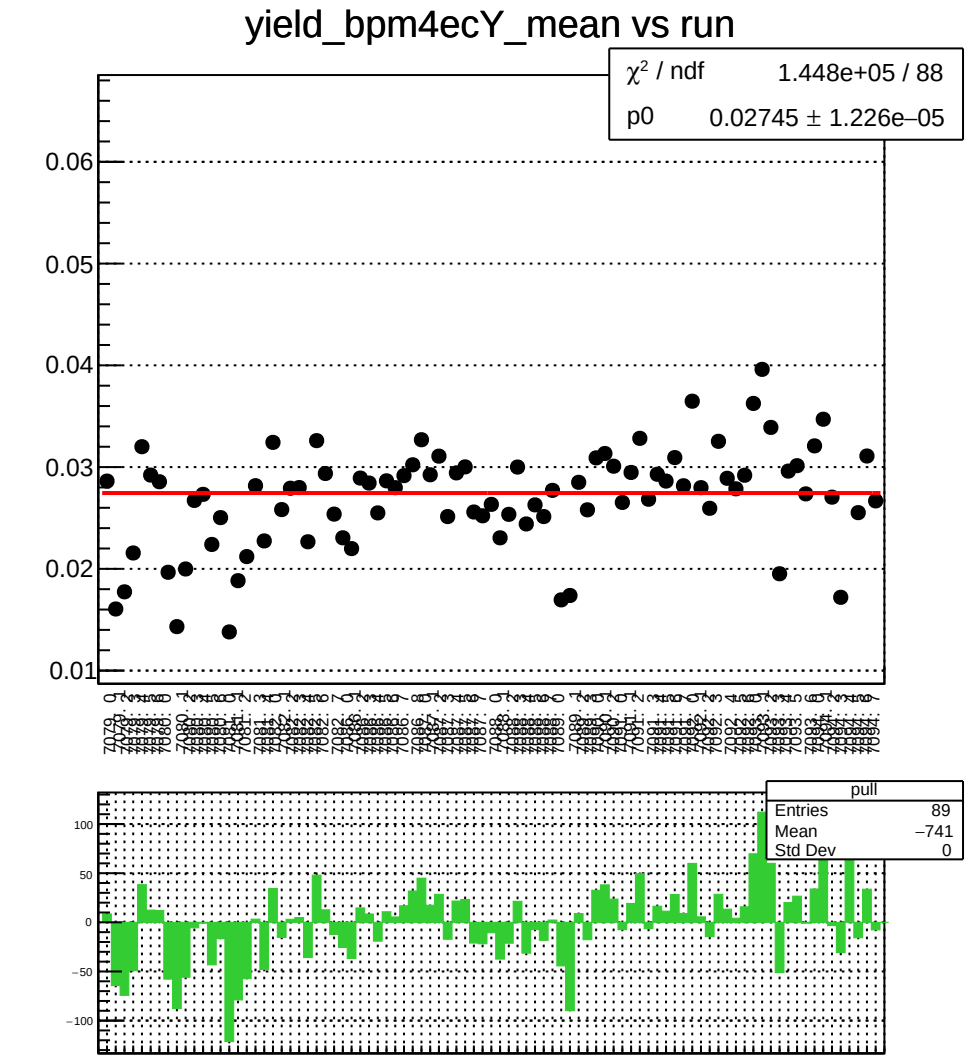

pull1D
Entries 89
Mean −0.4155
Std Dev 4.724

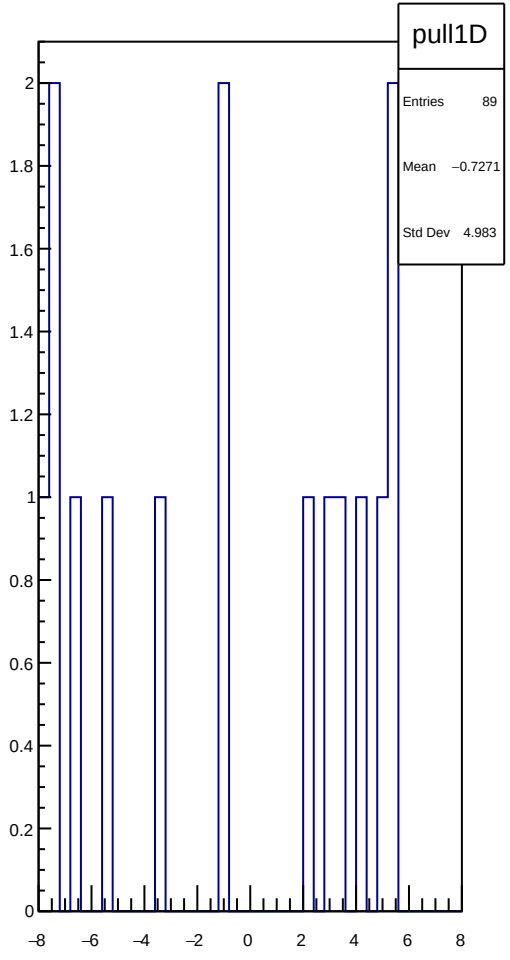

yield_bpm4acY_rms vs run
χ² / ndf 4.83e+04 / 88
p0 0.01206 ± 9.421e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01


yield_bpm4ecX_mean vs run
χ² / ndf 4.282e+05 / 88
p0 −0.3146 ± 1.995e−05
−0.26
−0.28
−0.3
−0.32
−0.34
pull
Entries 89
Mean −3.893
Std Dev 0
200
150
100
50
0
−50
−100
−150

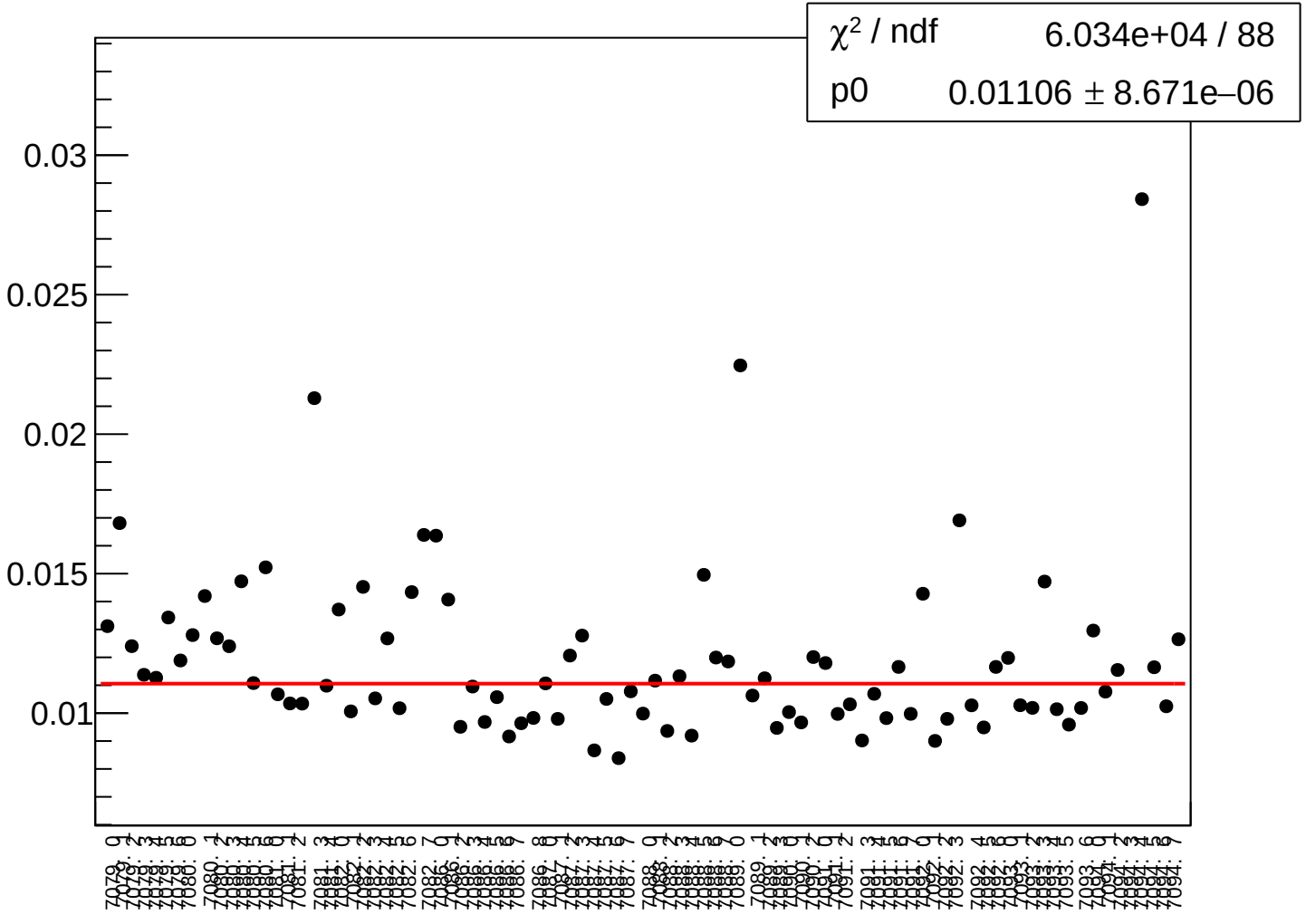

pull1D
Entries 89
Mean 1.043
Std Dev 5.485
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

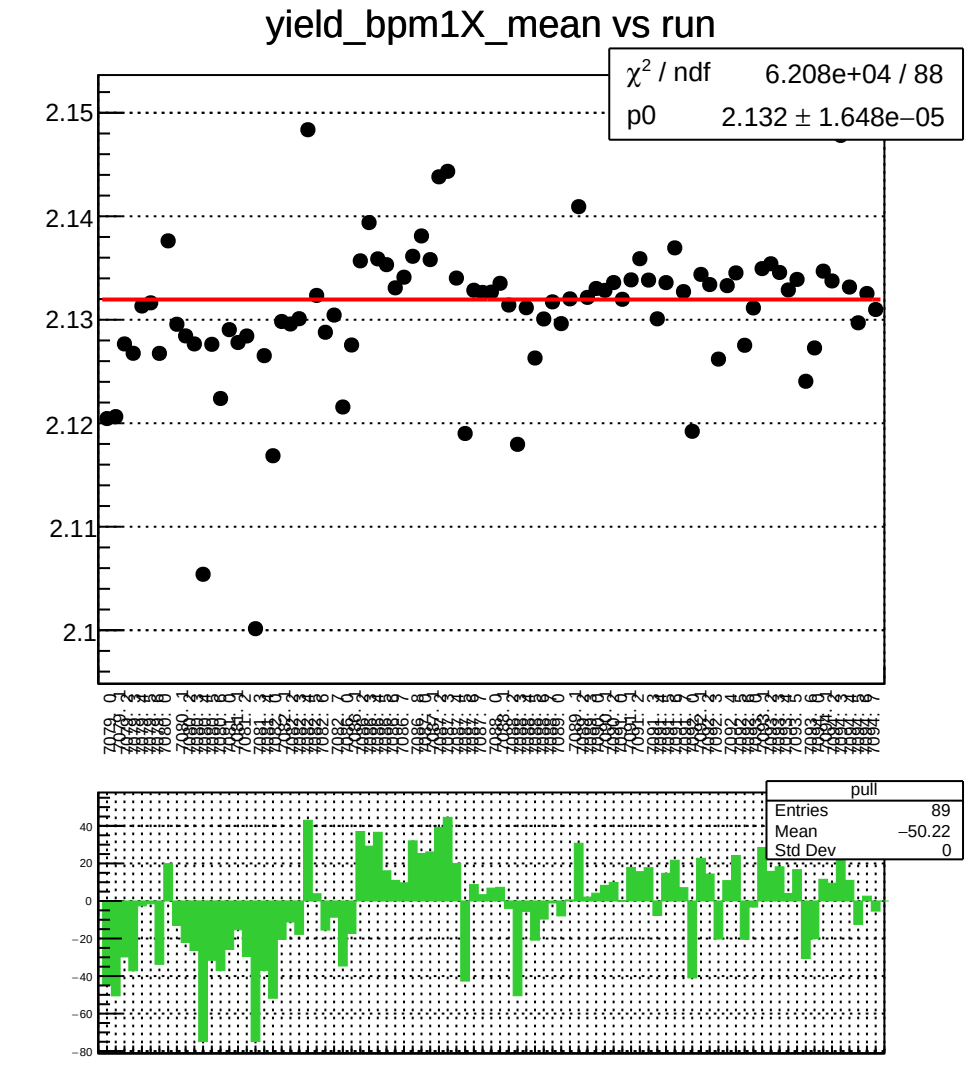

yield_bpm4ecX_rms vs run
χ² / ndf 2.636e+05 / 88
p0 0.01683 ± 1.411e–05
0.06
0.05
0.04
0.03
0.02
0.01

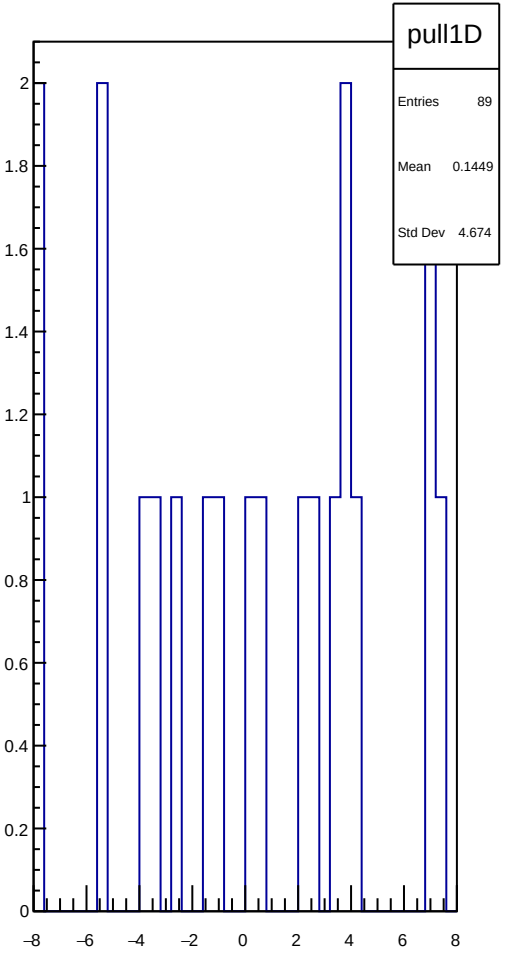

yield_bpm4ecY_mean vs run
χ² / ndf 1.448e+05 / 88
p0 0.02745 ± 1.226e−05
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 89
Mean −741
Std Dev 0
100
50
0
−50
−100

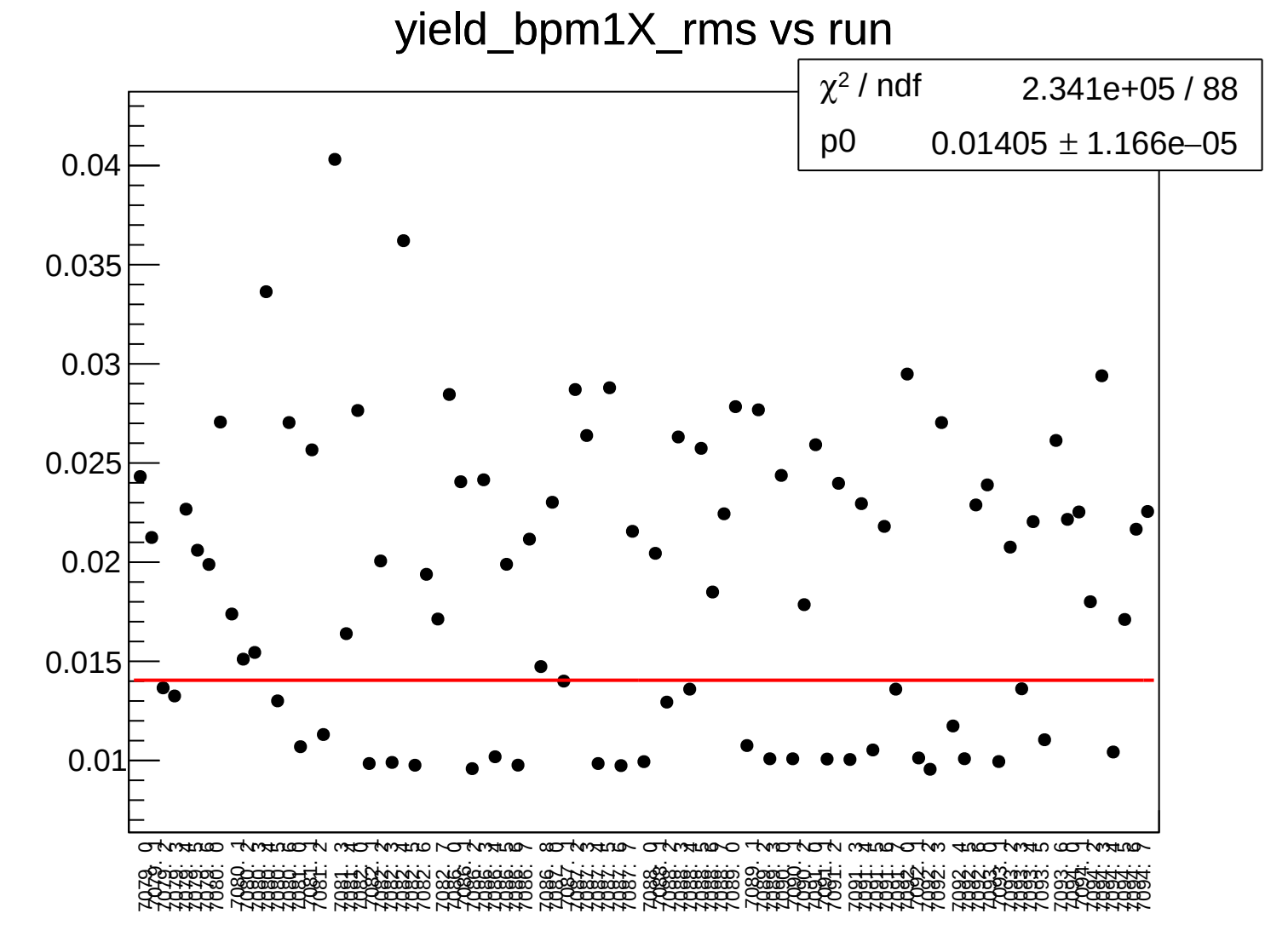

pull1D
Entries 89
Mean −0.7271
Std Dev 4.983
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

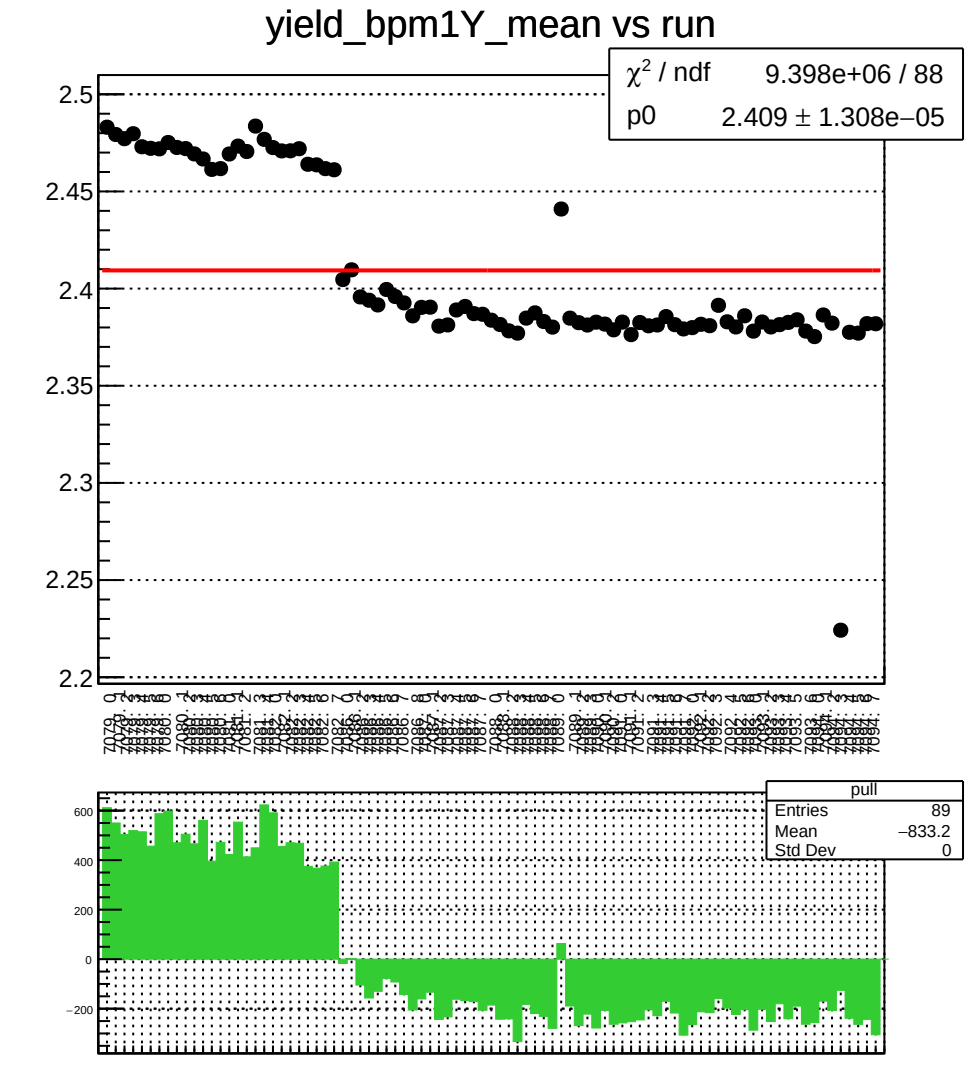
yield_bpm4ecY_rms vs run

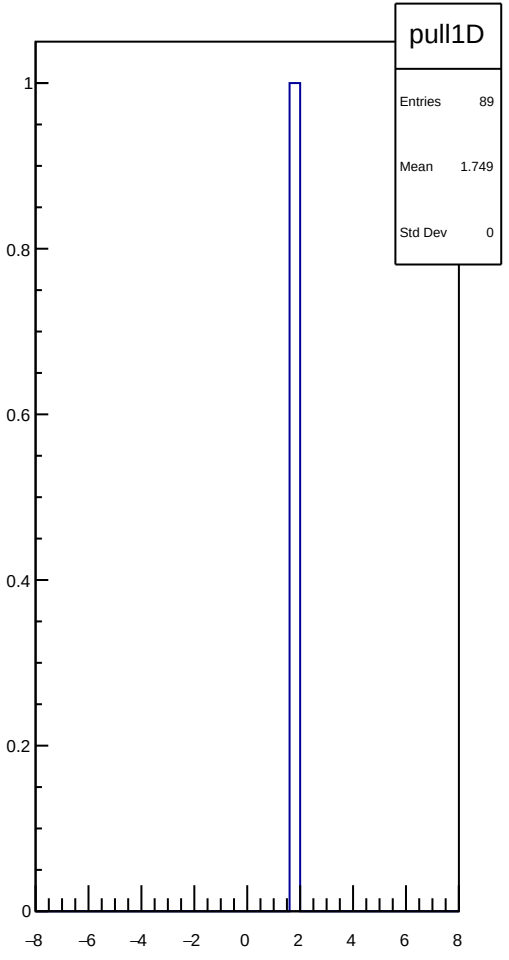


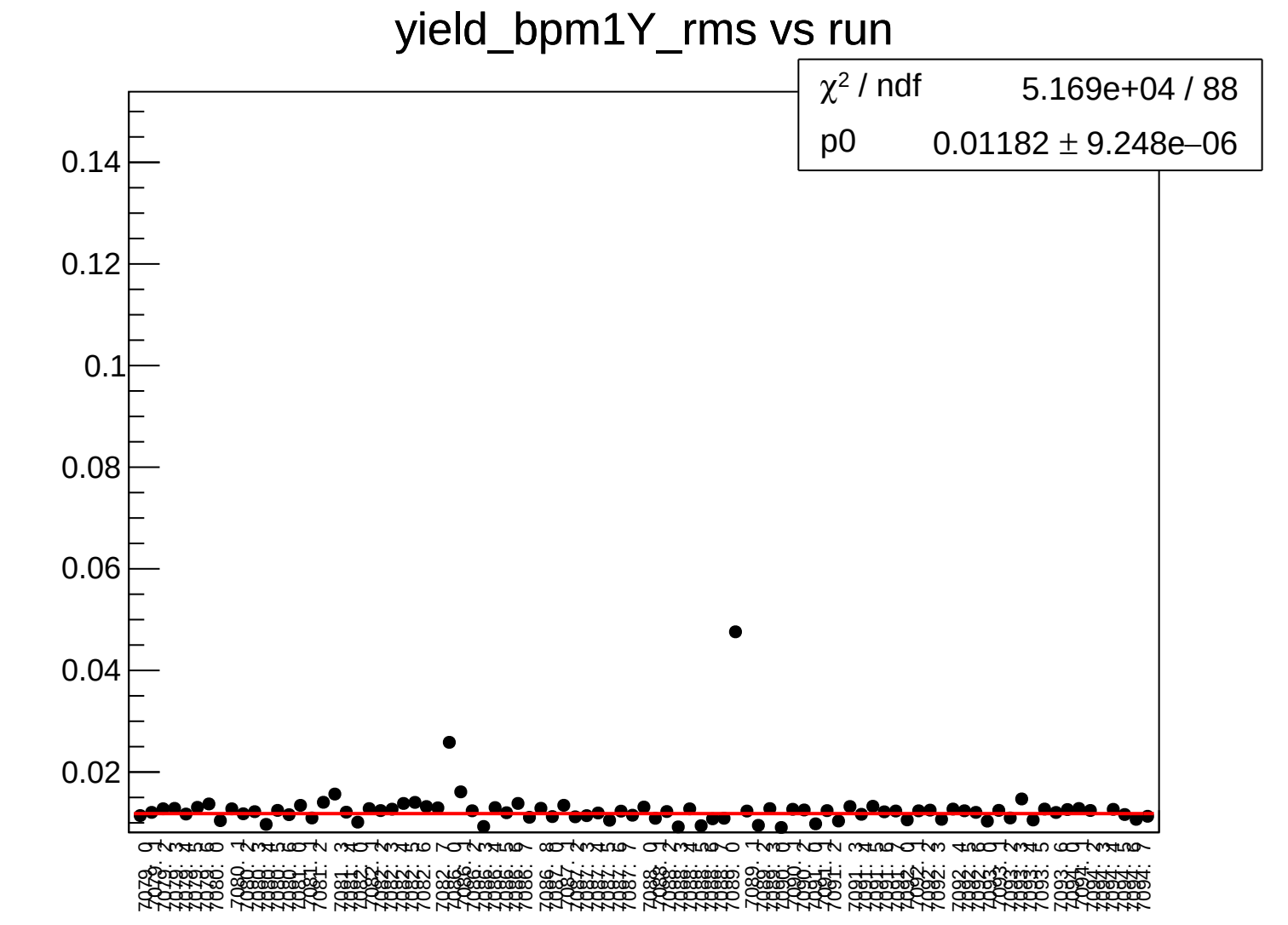

yield_bpm1X_mean vs run
χ² / ndf 6.208e+04 / 88
p0 2.132 ± 1.648e−05
2.15
2.14
2.13
2.12
2.11
2.1
pull
Entries 89
Mean −50.22
Std Dev 0
40
20
0
−20
−40
−60
−80

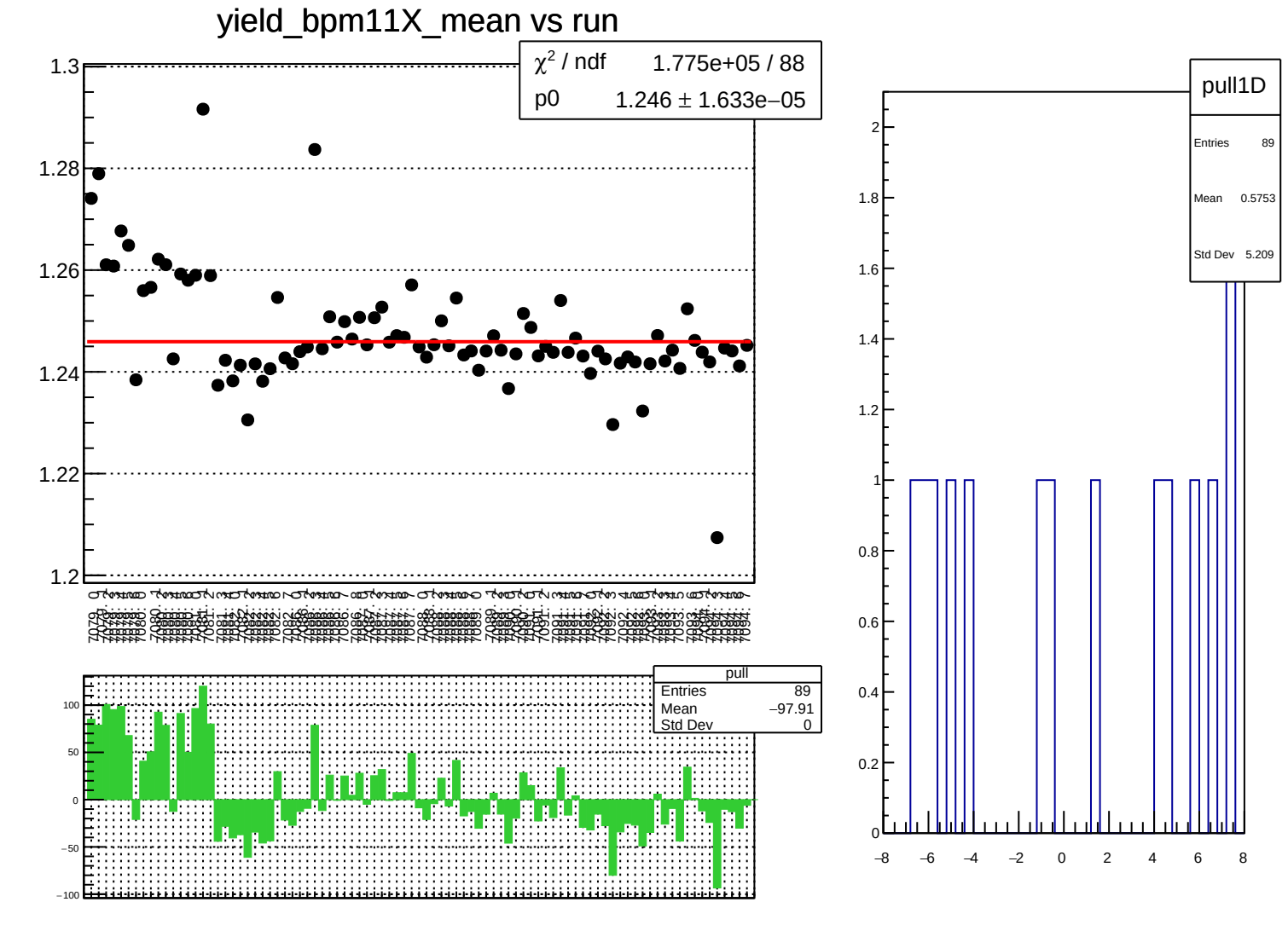

pull1D
Entries 89
Mean 0.1449
Std Dev 4.674
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

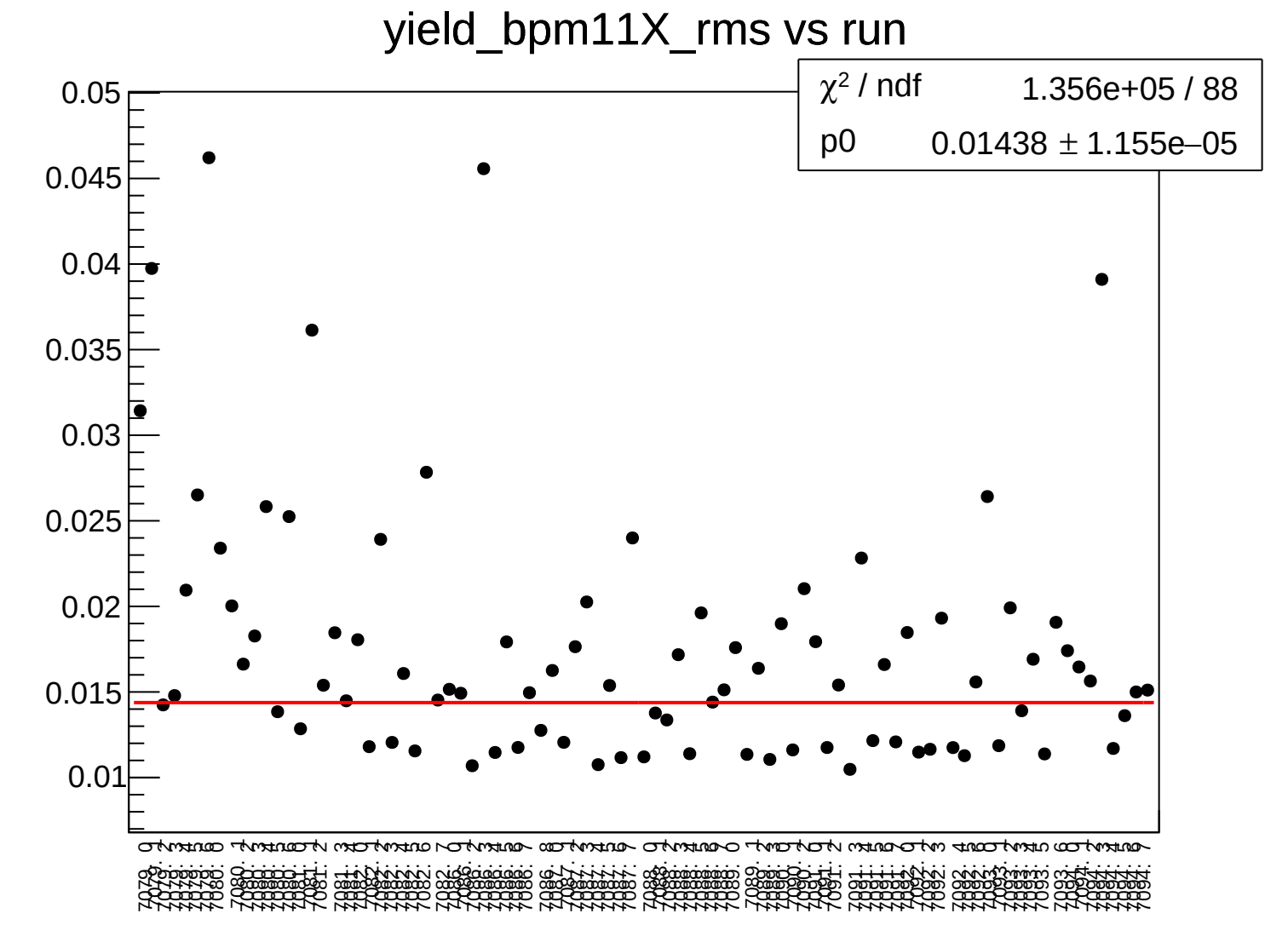

yield_bpm1X_rms vs run
χ² / ndf 2.341e+05 / 88
p0 0.01405 ± 1.166e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

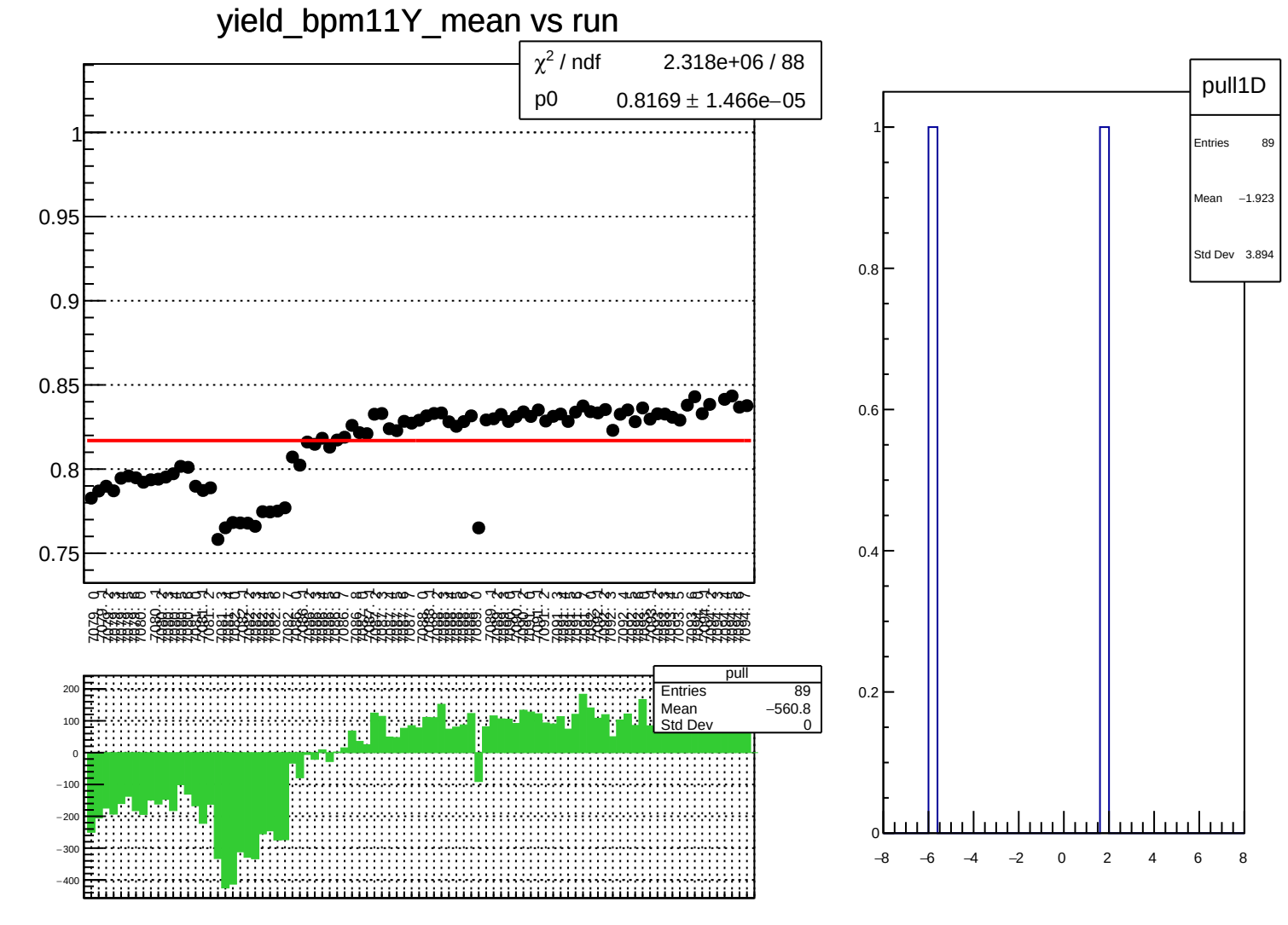

yield_bpm1Y_mean vs run
χ² / ndf 9.398e+06 / 88
p0 2.409 ± 1.308e−05
2.5
2.45
2.4
2.35
2.3
2.25
2.2
pull
Entries 89
Mean −833.2
Std Dev 0
600
400
200
0
−200

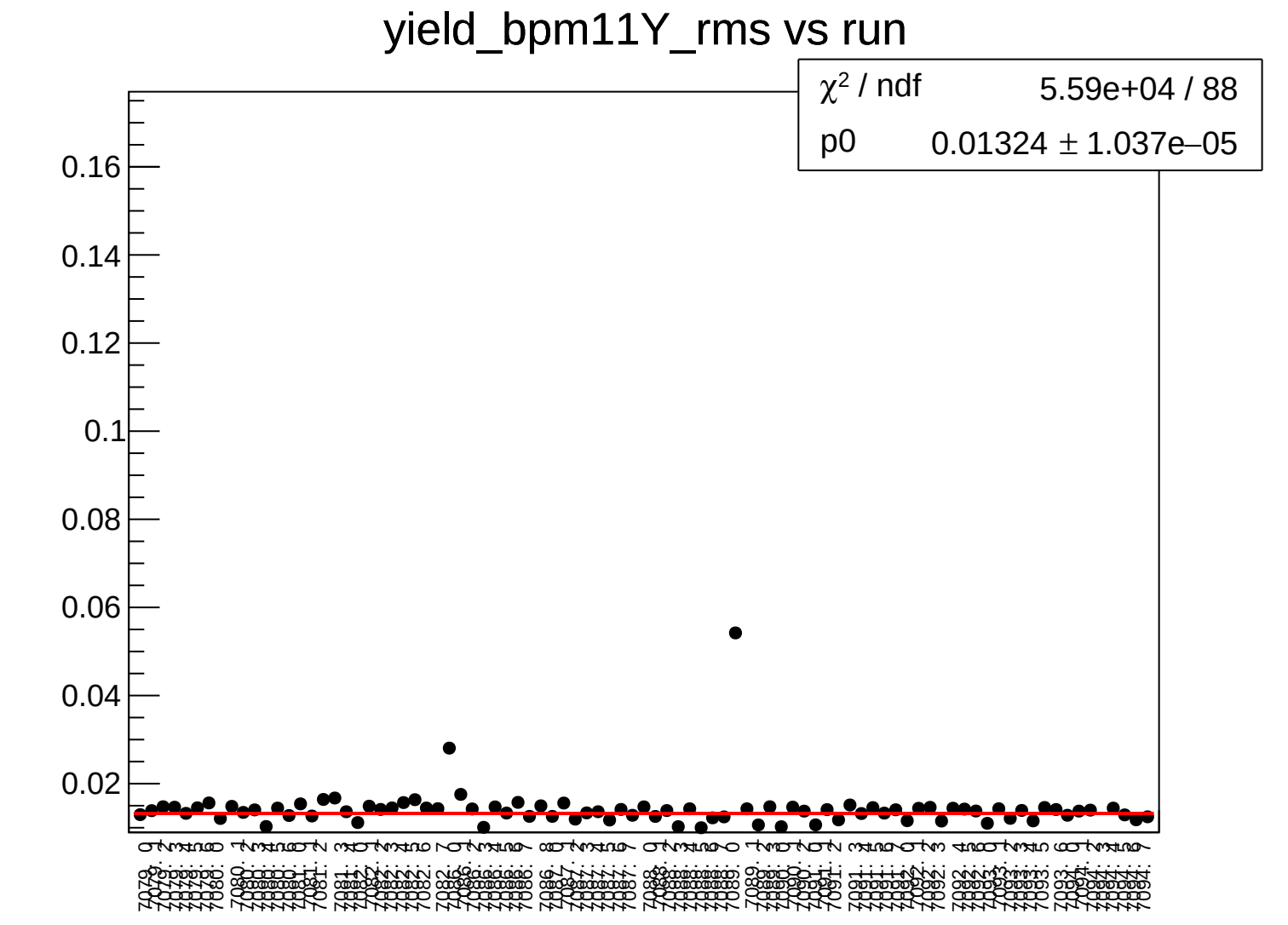

pull1D
Entries 89
Mean 1.749
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

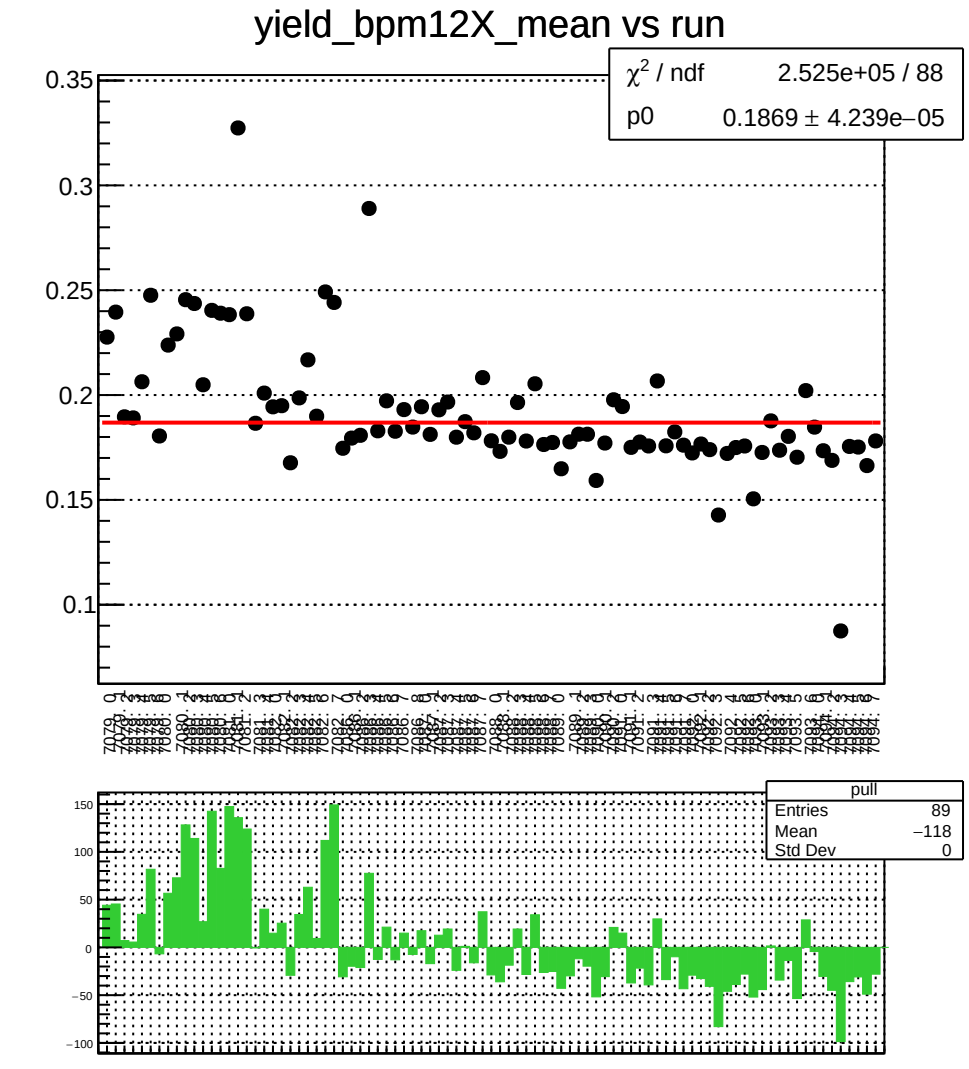

yield_bpm1Y_rms vs run
χ² / ndf 5.169e+04 / 88
p0 0.01182 ± 9.248e–06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

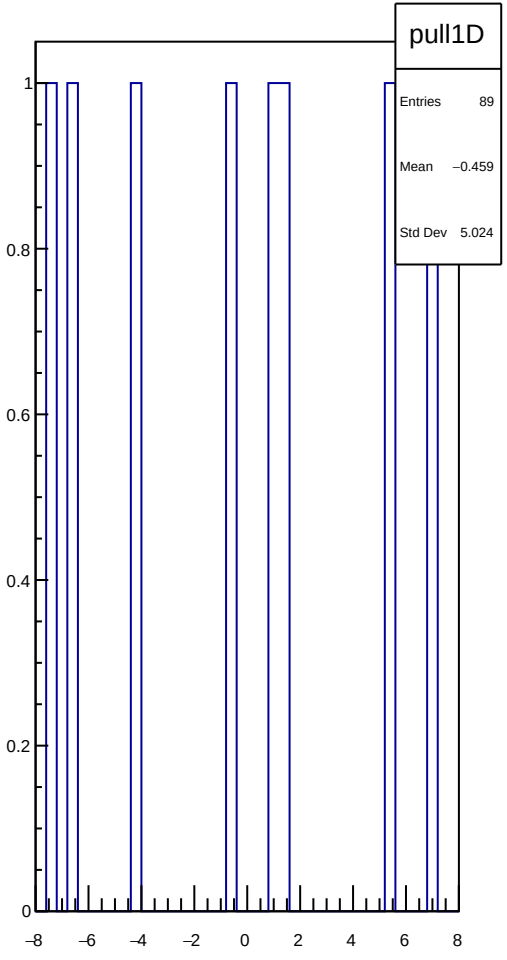

yield_bpm11X_mean vs run
χ² / ndf 1.775e+05 / 88
p0 1.246 ± 1.633e−05
pull
Entries 89
Mean −97.91
Std Dev 0
pull1D
Entries 89
Mean 0.5753
Std Dev 5.209

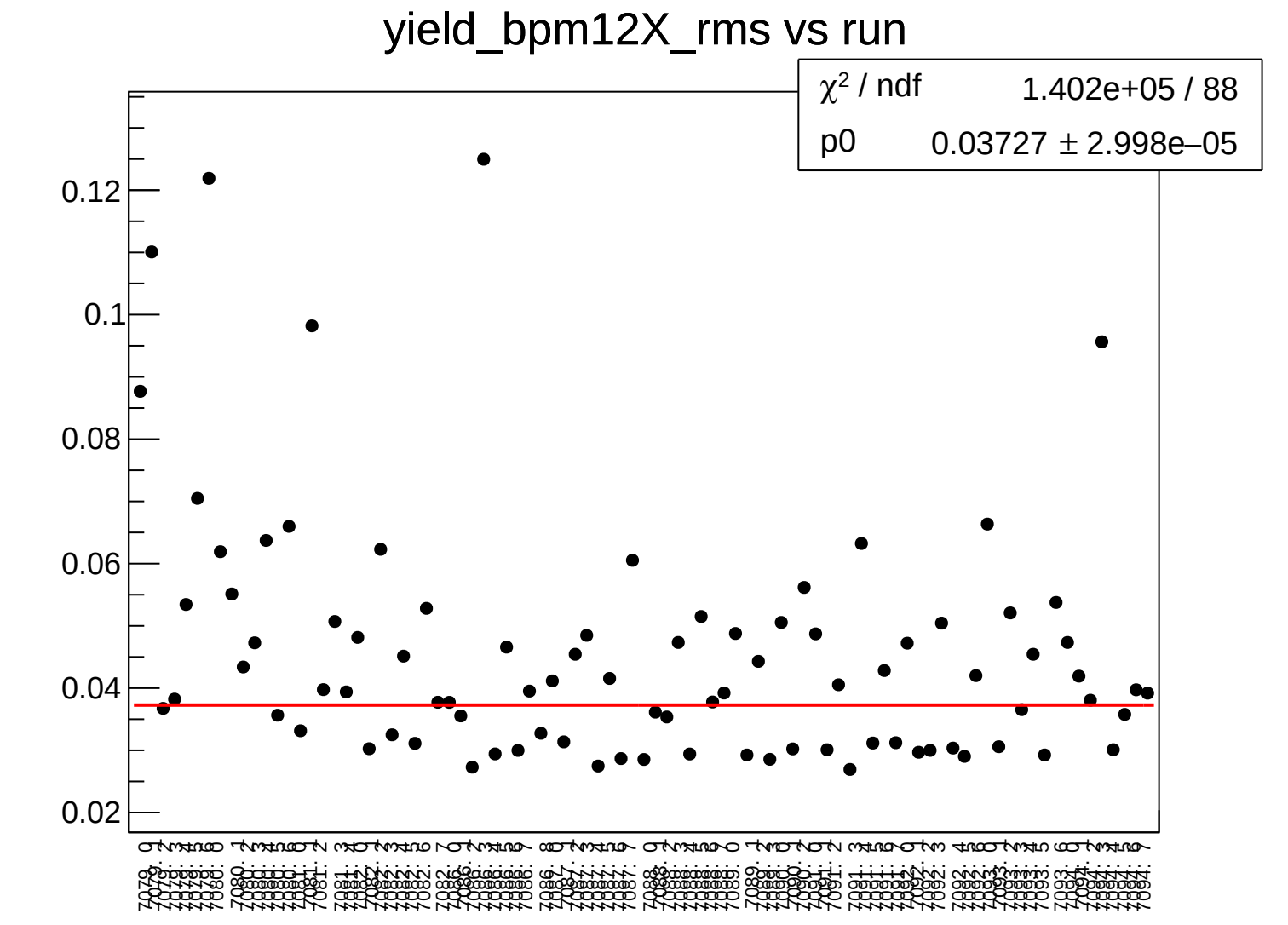

yield_bpm11X_rms vs run
χ² / ndf 1.356e+05 / 88
p0 0.01438 ± 1.155e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

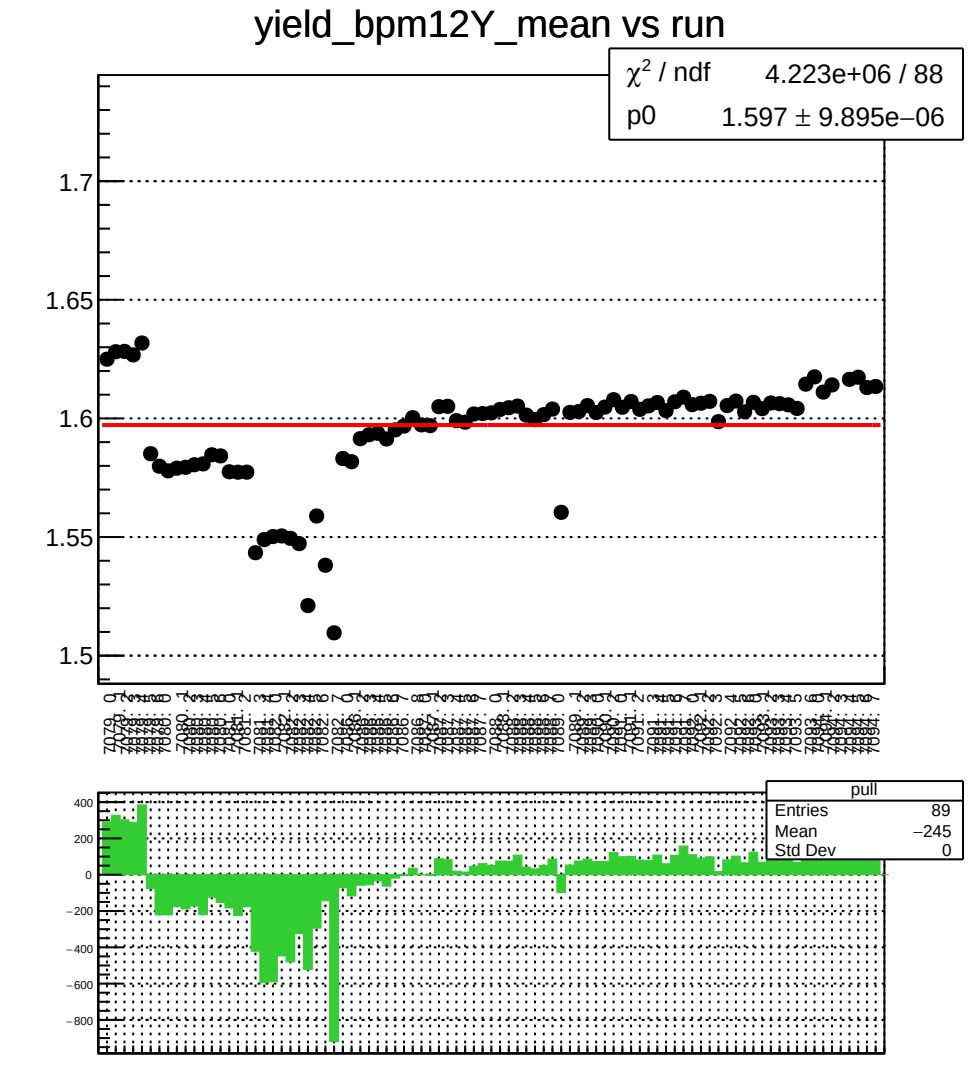

yield_bpm11Y_mean vs run
χ² / ndf 2.318e+06 / 88
p0 0.8169 ± 1.466e−05
1
0.95
0.9
0.85
0.8
0.75
pull
Entries 89
Mean −560.8
Std Dev 0
200
100
0
−100
−200
−300
−400
pull1D
Entries 89
Mean −1.923
Std Dev 3.894
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

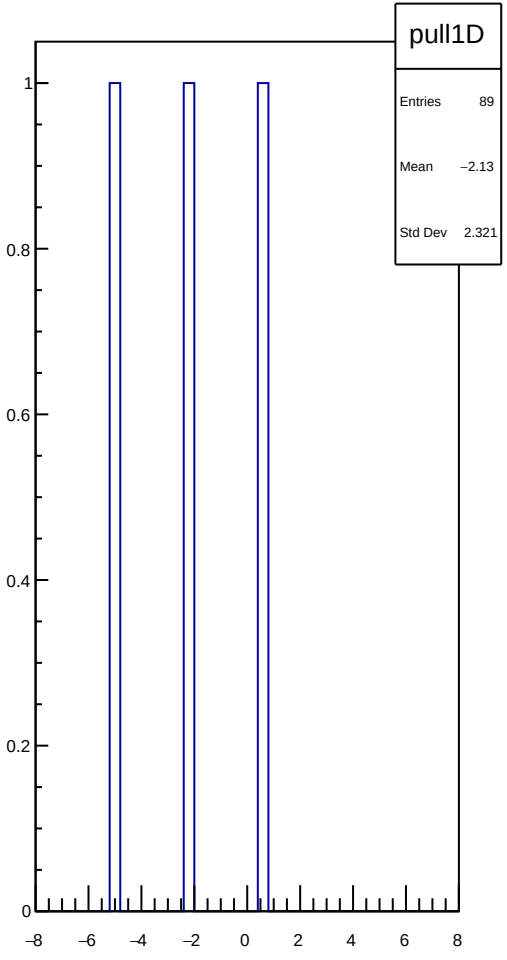

yield_bpm11Y_rms vs run
χ² / ndf 5.59e+04 / 88
p0 0.01324 ± 1.037e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

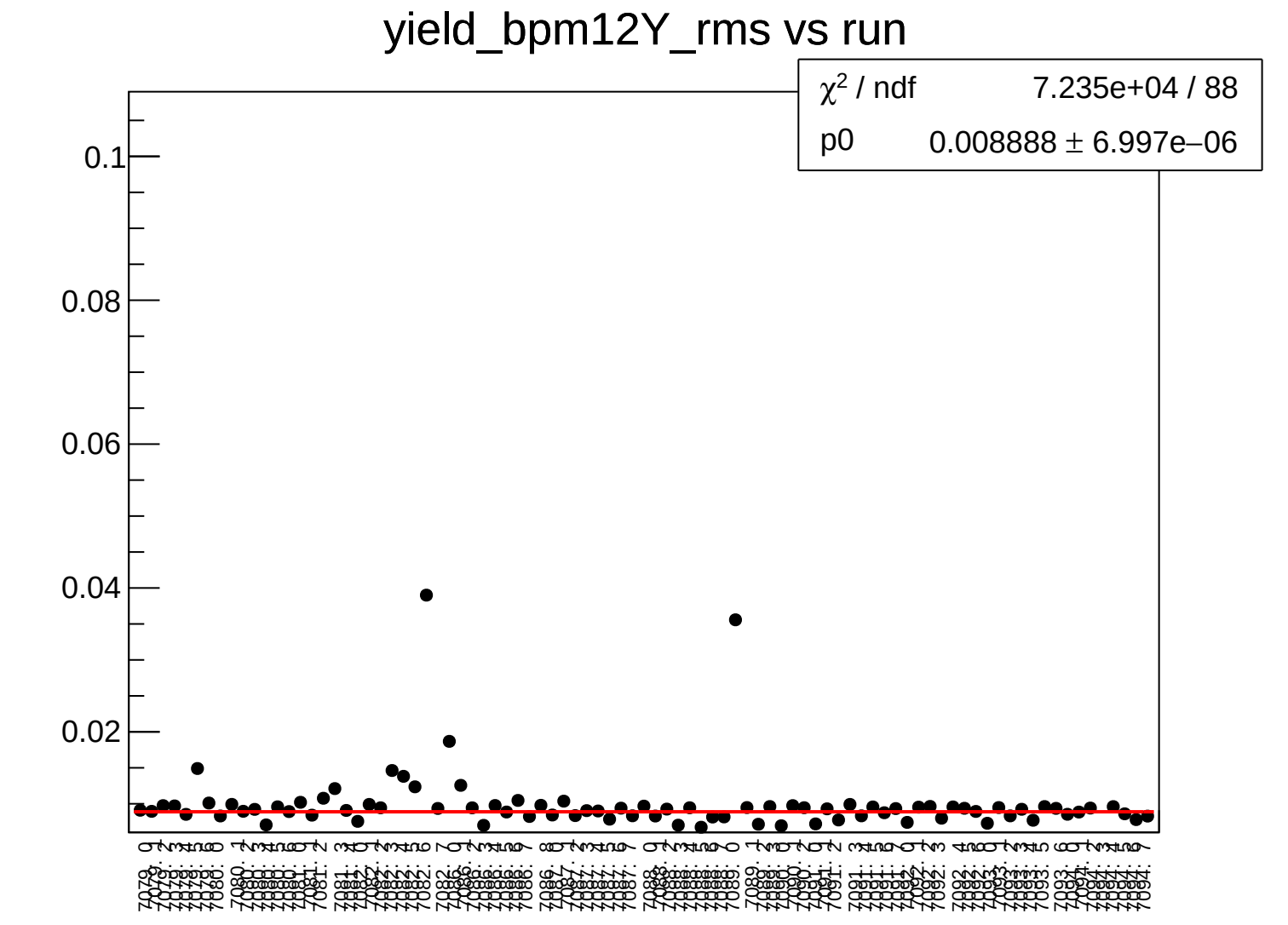

yield_bpm12X_mean vs run
χ² / ndf 2.525e+05 / 88
p0 0.1869 ± 4.239e−05
0.35
0.3
0.25
0.2
0.15
0.1
pull
Entries 89
Mean −118
Std Dev 0
150
100
50
0
−50
−100

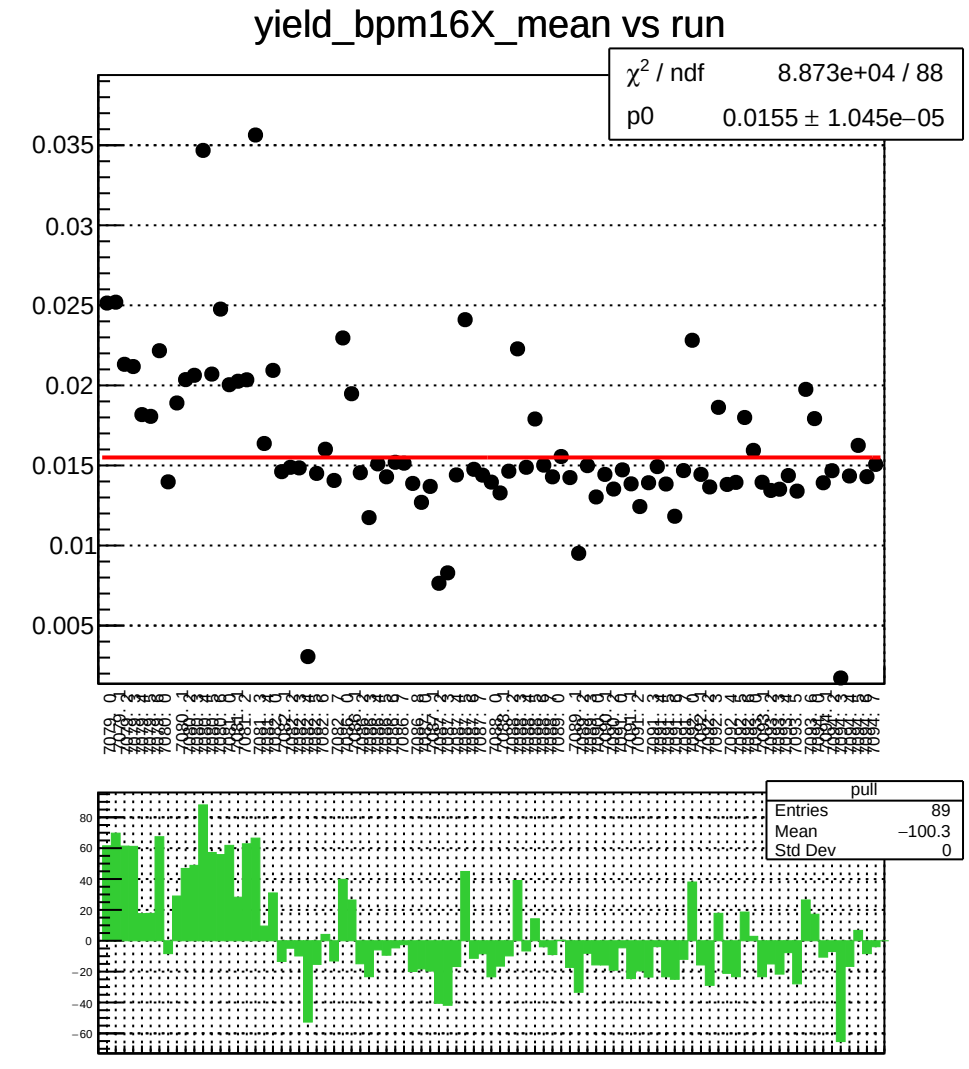

pull1D
Entries 89
Mean −0.459
Std Dev 5.024
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

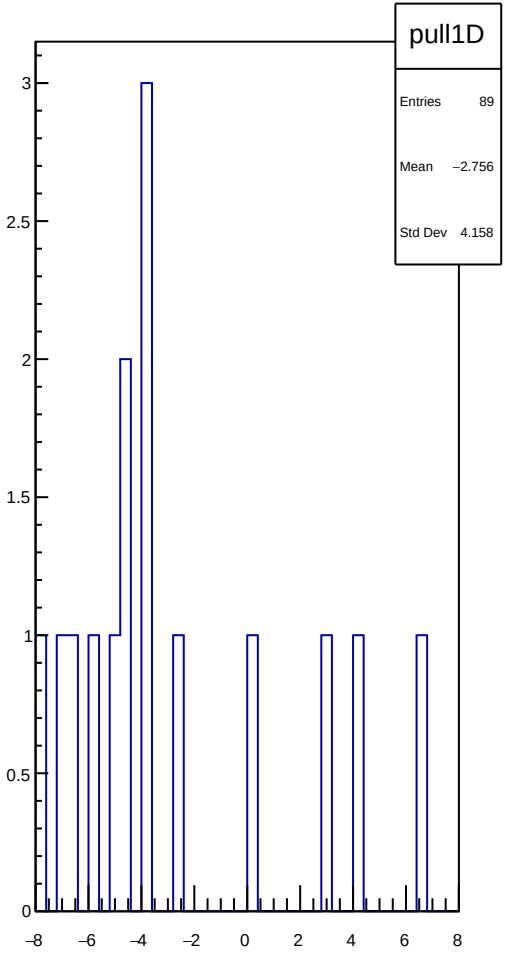

yield_bpm12X_rms vs run
χ² / ndf 1.402e+05 / 88
p0 0.03727 ± 2.998e–05
0.12
0.1
0.08
0.06
0.04
0.02

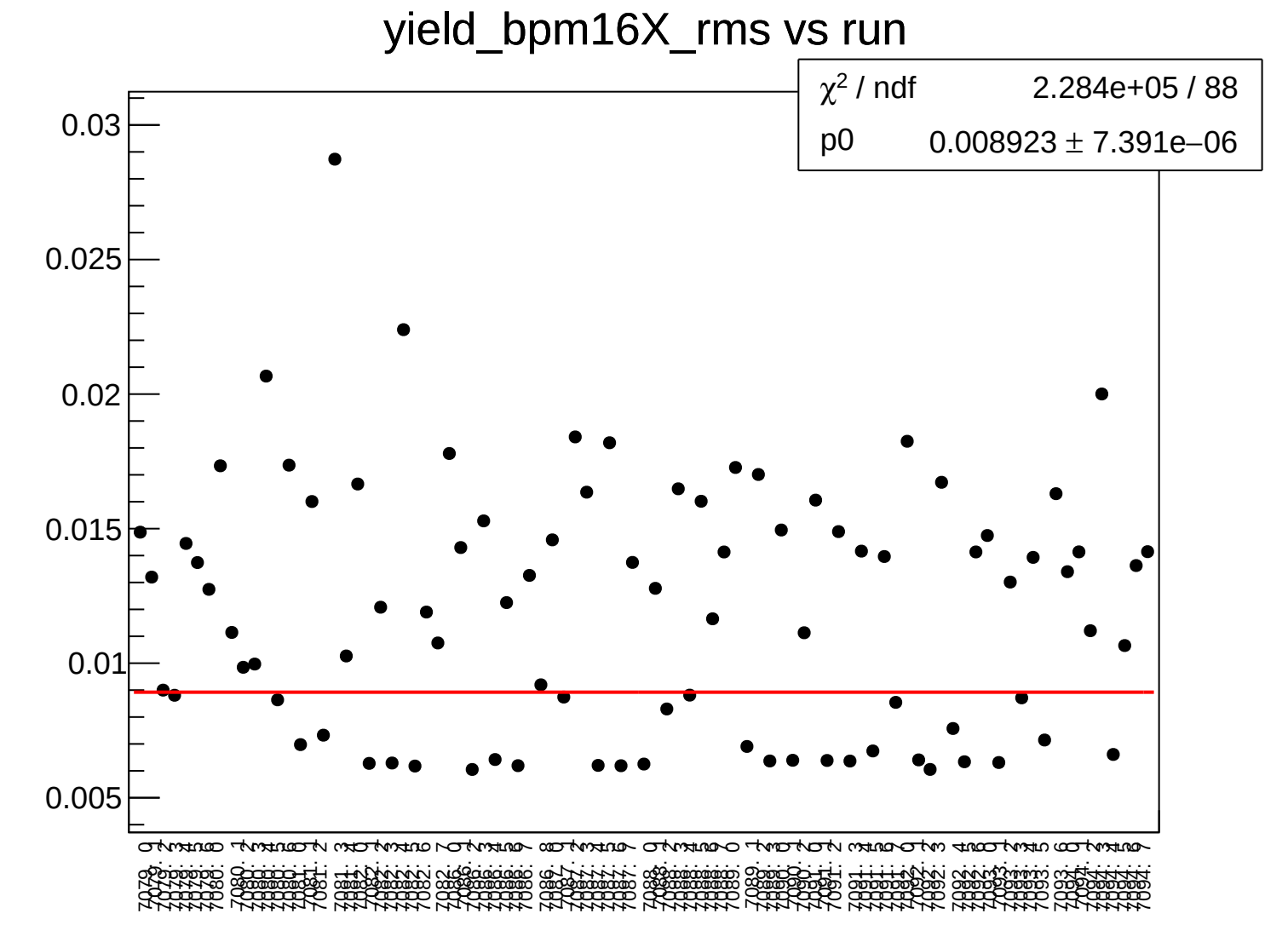

yield_bpm12Y_mean vs run
χ² / ndf 4.223e+06 / 88
p0 1.597 ± 9.895e−06
1.7
1.65
1.6
1.55
1.5
pull
Entries 89
Mean −245
Std Dev 0
400
200
0
−200
−400
−600
−800

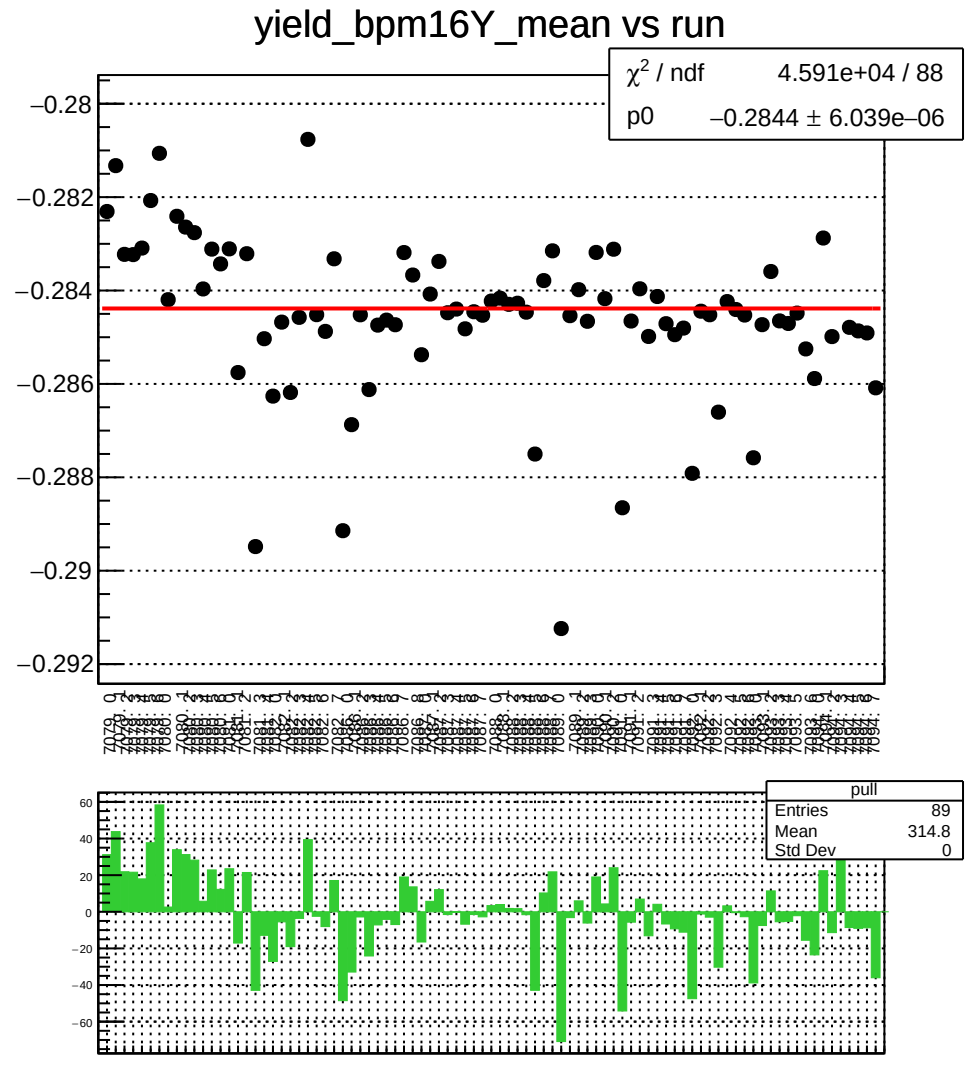

pull1D
Entries 89
Mean −2.13
Std Dev 2.321
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

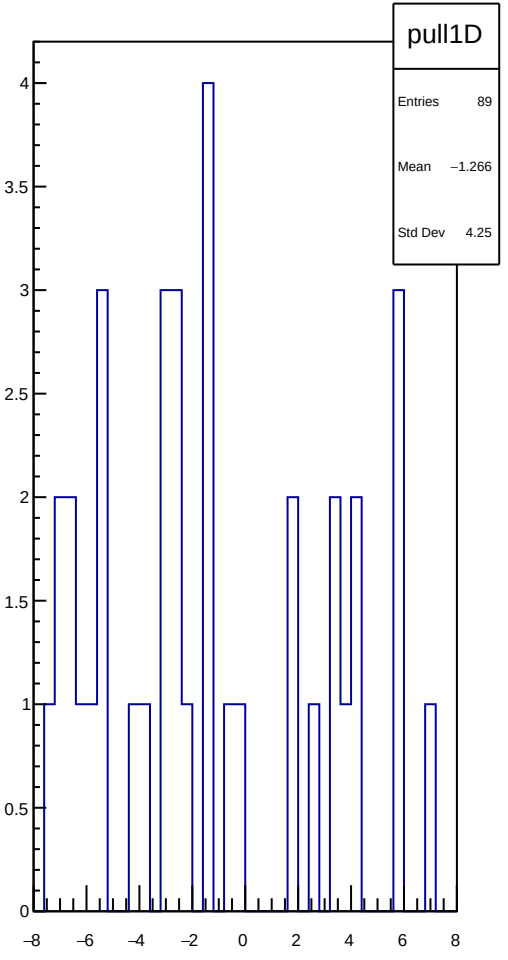

yield_bpm12Y_rms vs run
χ² / ndf 7.235e+04 / 88
p0 0.008888 ± 6.997e−06
0.1
0.08
0.06
0.04
0.02

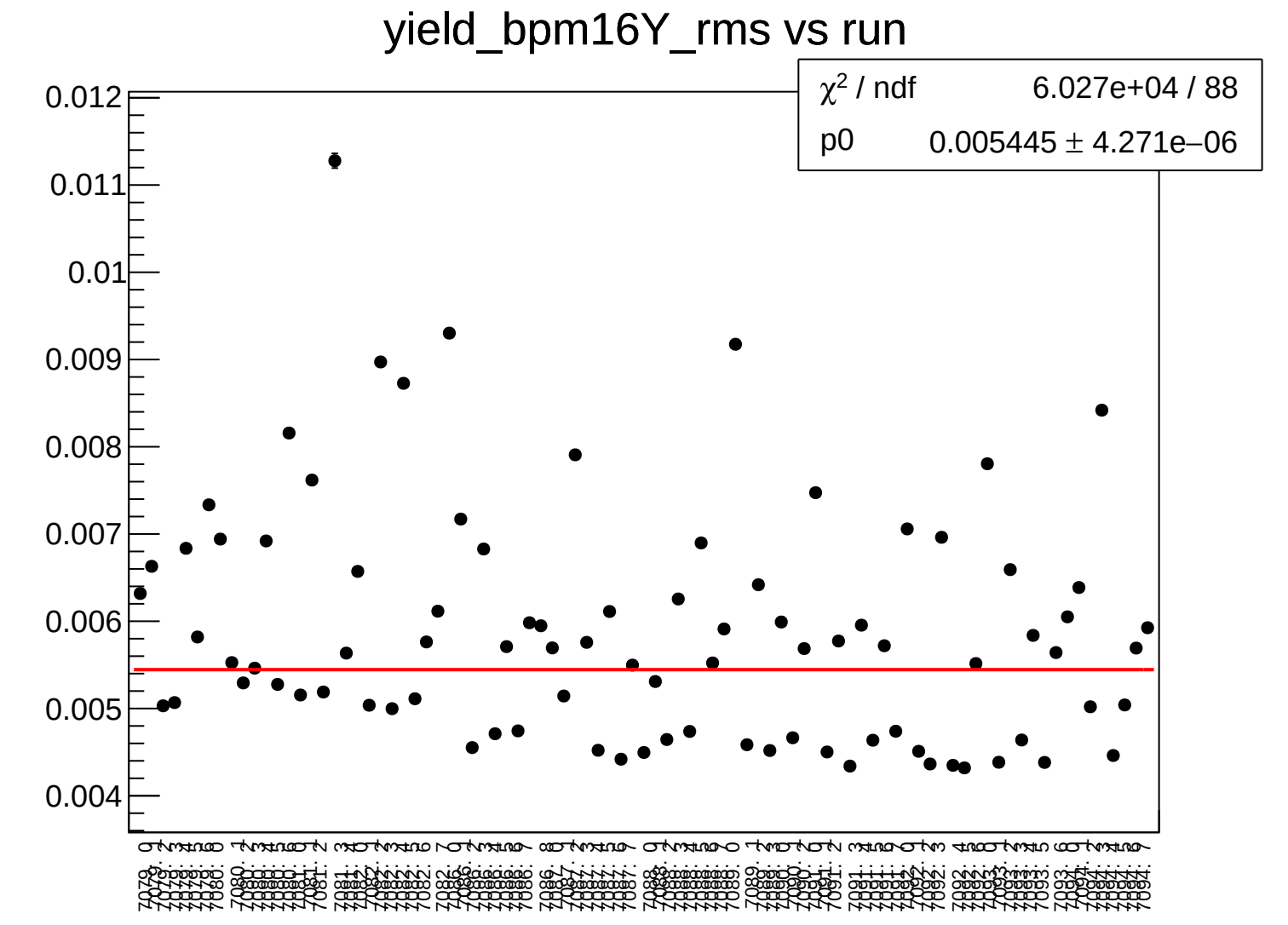

yield_bpm16X_mean vs run
χ² / ndf 8.873e+04 / 88
p0 0.0155 ± 1.045e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
pull
Entries 89
Mean −100.3
Std Dev 0
80
60
40
20
0
−20
−40
−60

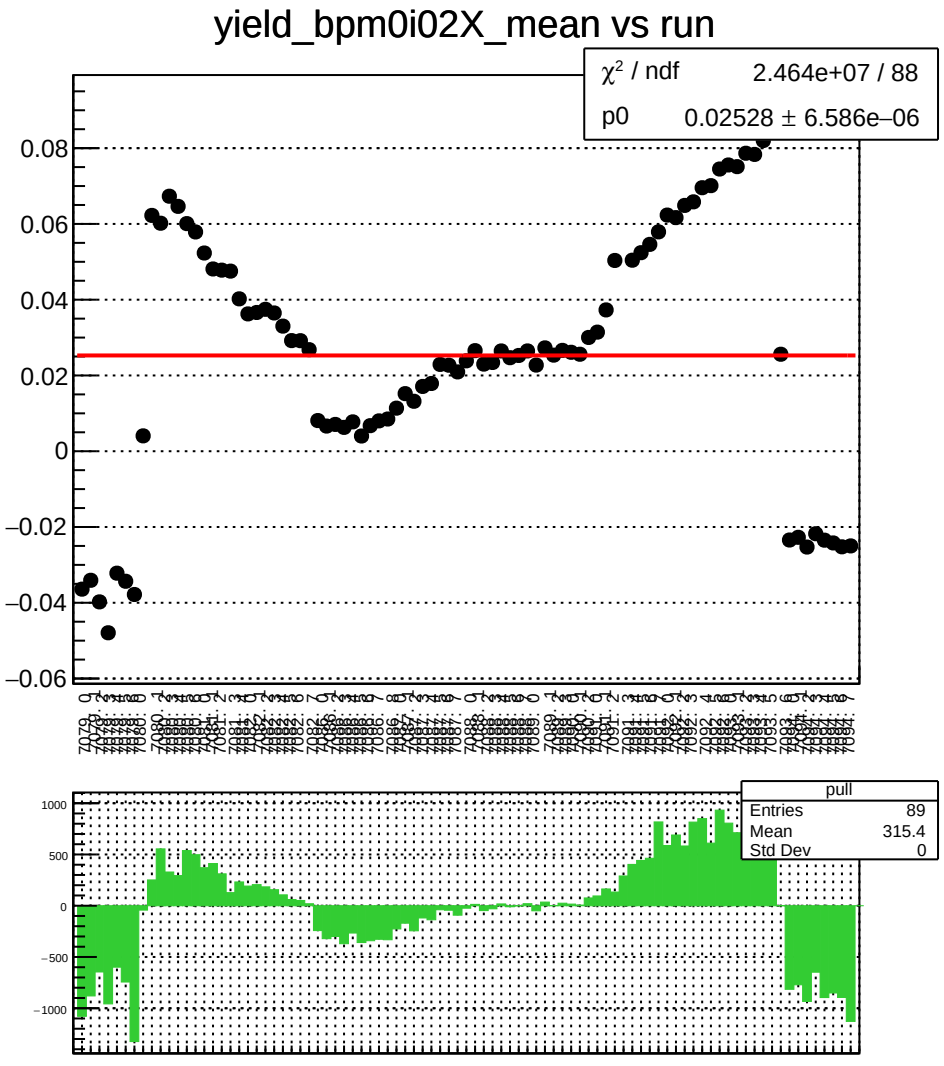

pull1D
Entries 89
Mean −2.756
Std Dev 4.158
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

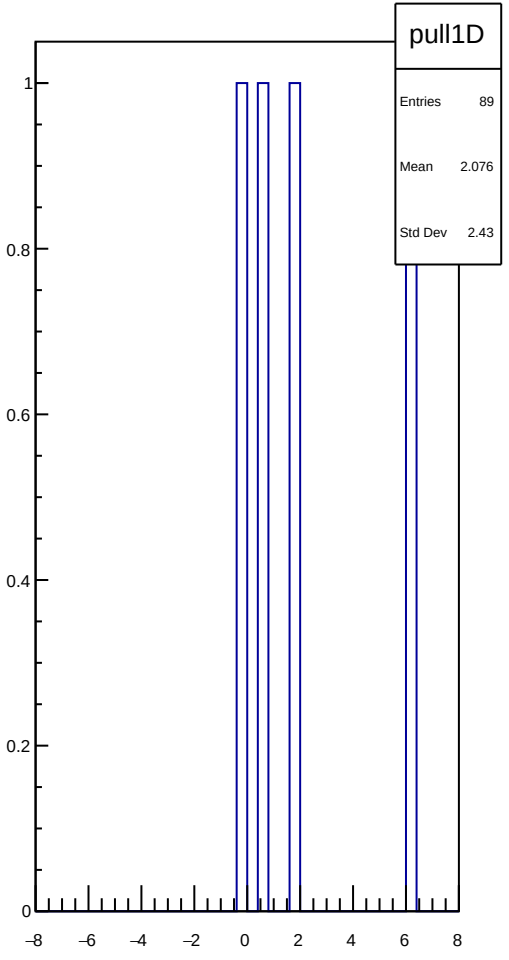

yield_bpm16X_rms vs run
χ² / ndf 2.284e+05 / 88
p0 0.008923 ± 7.391e−06
0.03
0.025
0.02
0.015
0.01
0.005

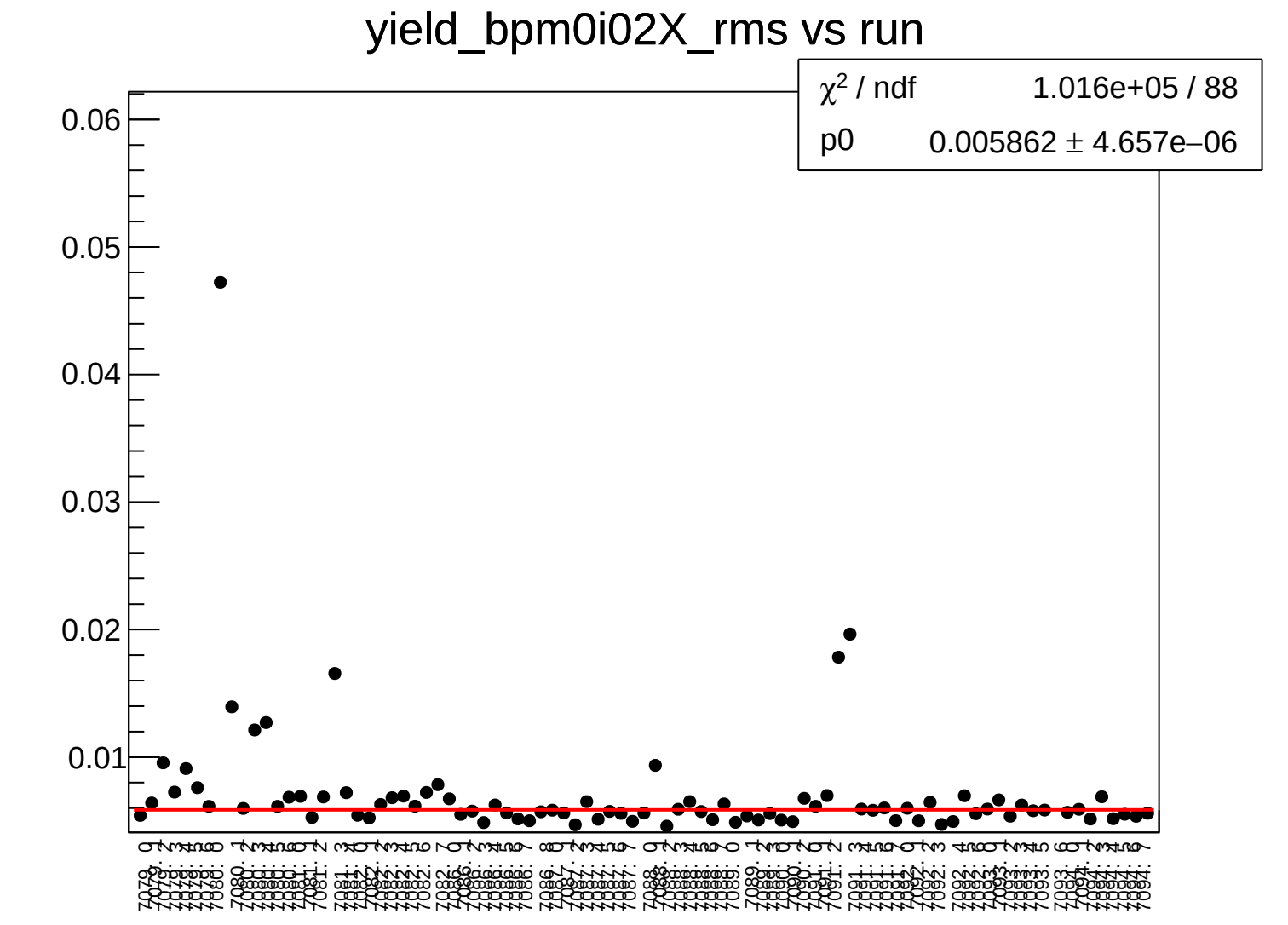

yield_bpm16Y_mean vs run
χ² / ndf 4.591e+04 / 88
p0 −0.2844 ± 6.039e−06
−0.28
−0.282
−0.284
−0.286
−0.288
−0.29
−0.292
pull
Entries 89
Mean 314.8
Std Dev 0
60
40
20
0
−20
−40
−60

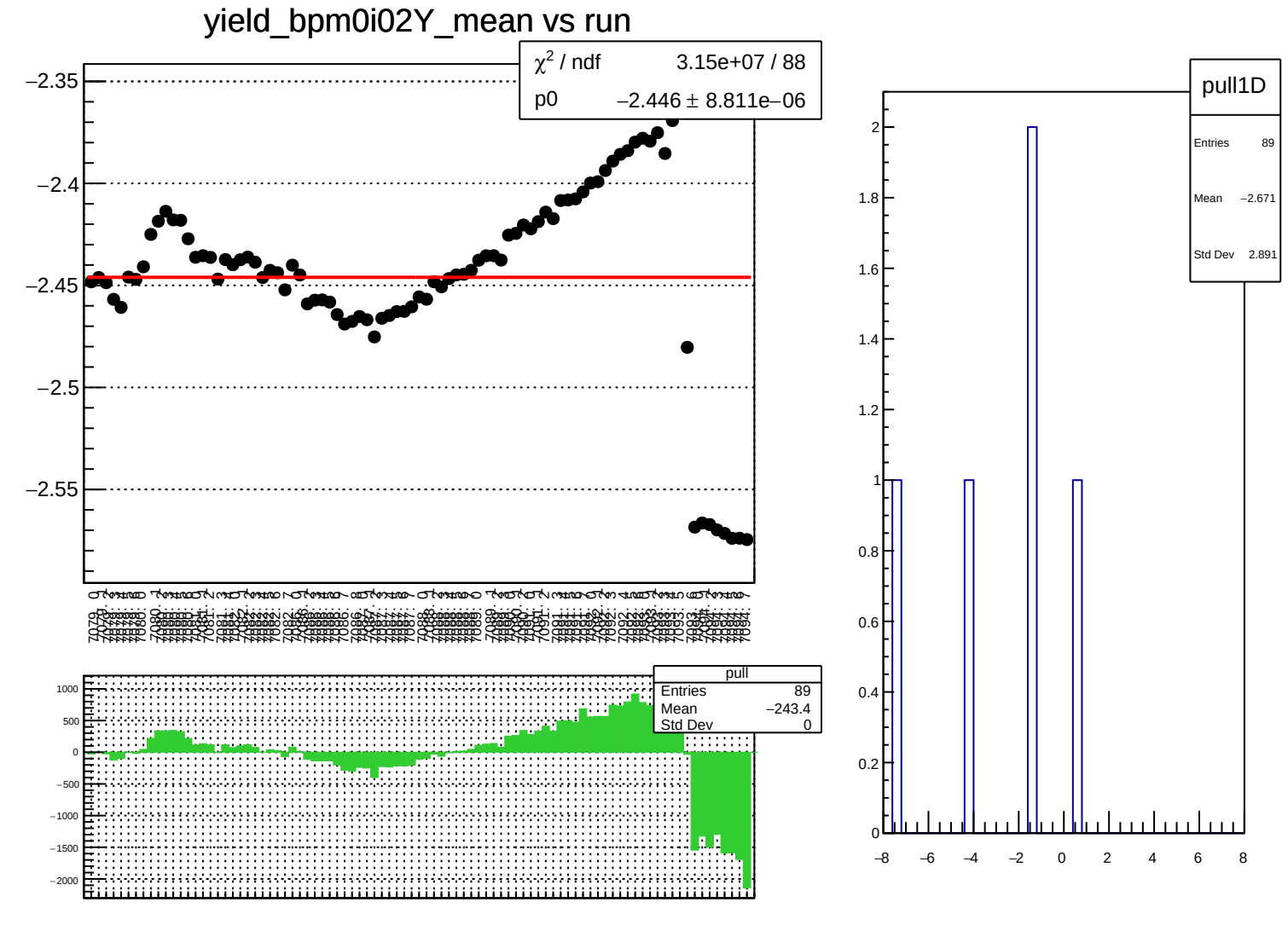

pull1D
Entries 89
Mean −1.266
Std Dev 4.25
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm16Y_rms vs run
χ² / ndf 6.027e+04 / 88
p0 0.005445 ± 4.271e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

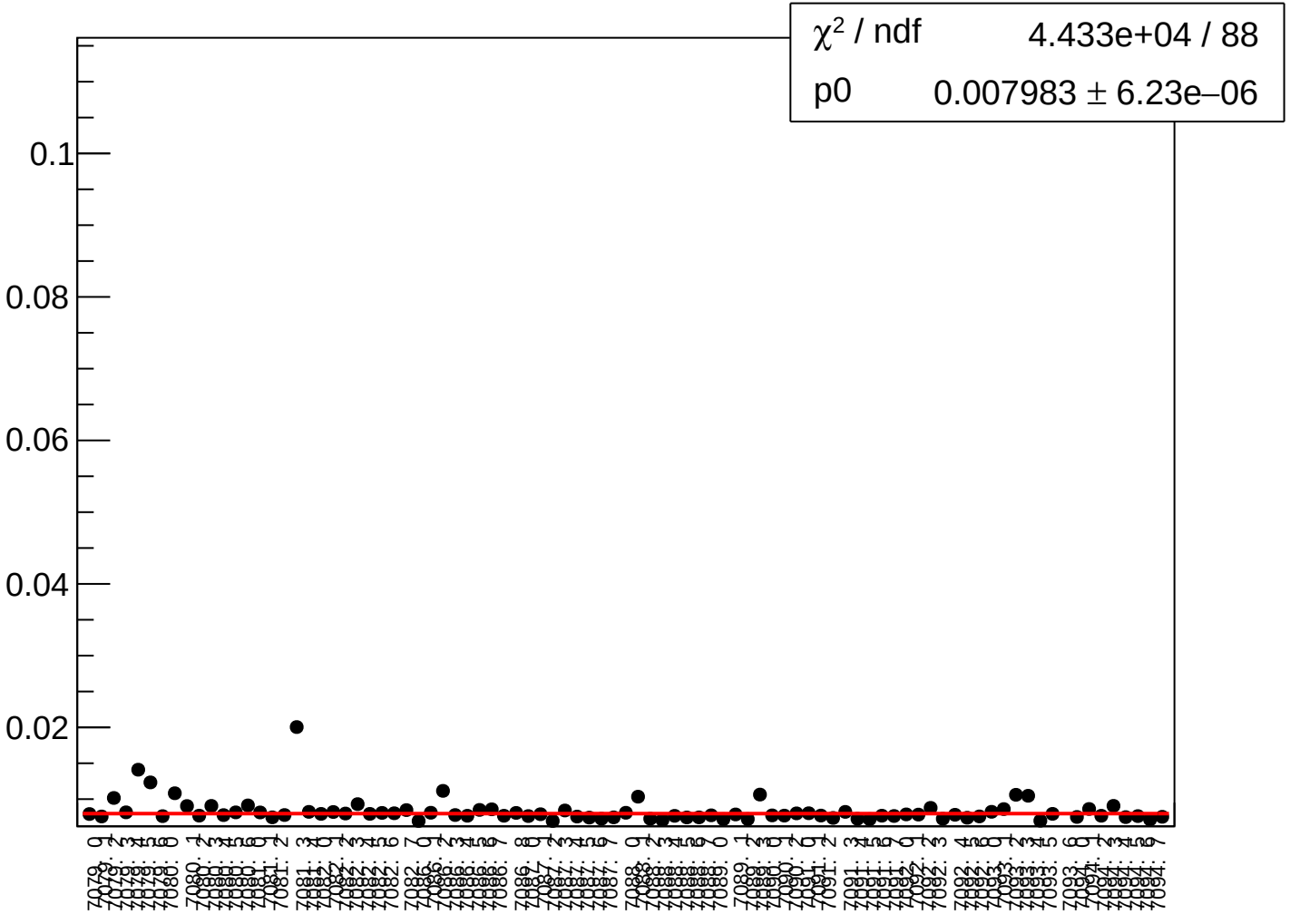

yield_bpm0i02X_mean vs run
χ² / ndf 2.464e+07 / 88
p0 0.02528 ± 6.586e–06
pull
Entries 89
Mean 315.4
Std Dev 0

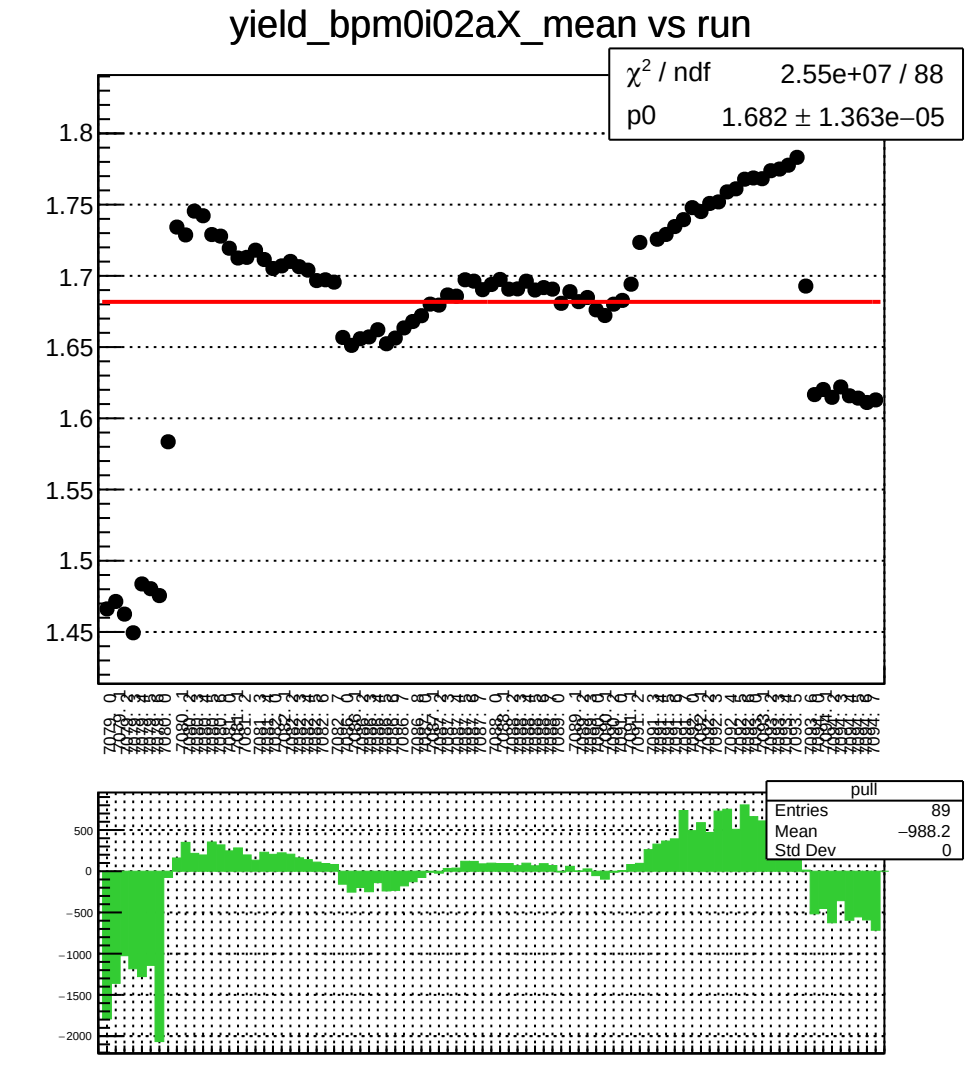

pull1D
Entries 89
Mean 2.076
Std Dev 2.43

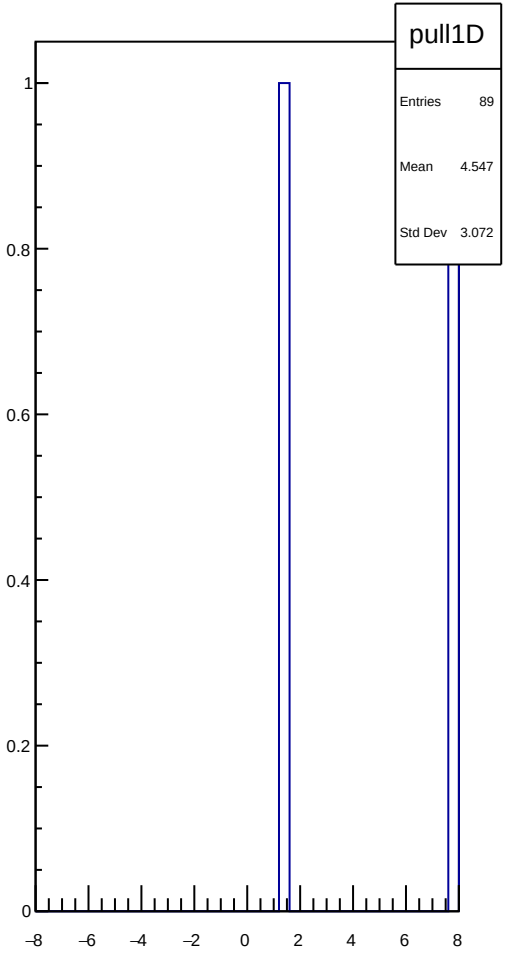

yield_bpm0i02X_rms vs run
χ² / ndf 1.016e+05 / 88
p0 0.005862 ± 4.657e−06
0.06
0.05
0.04
0.03
0.02
0.01

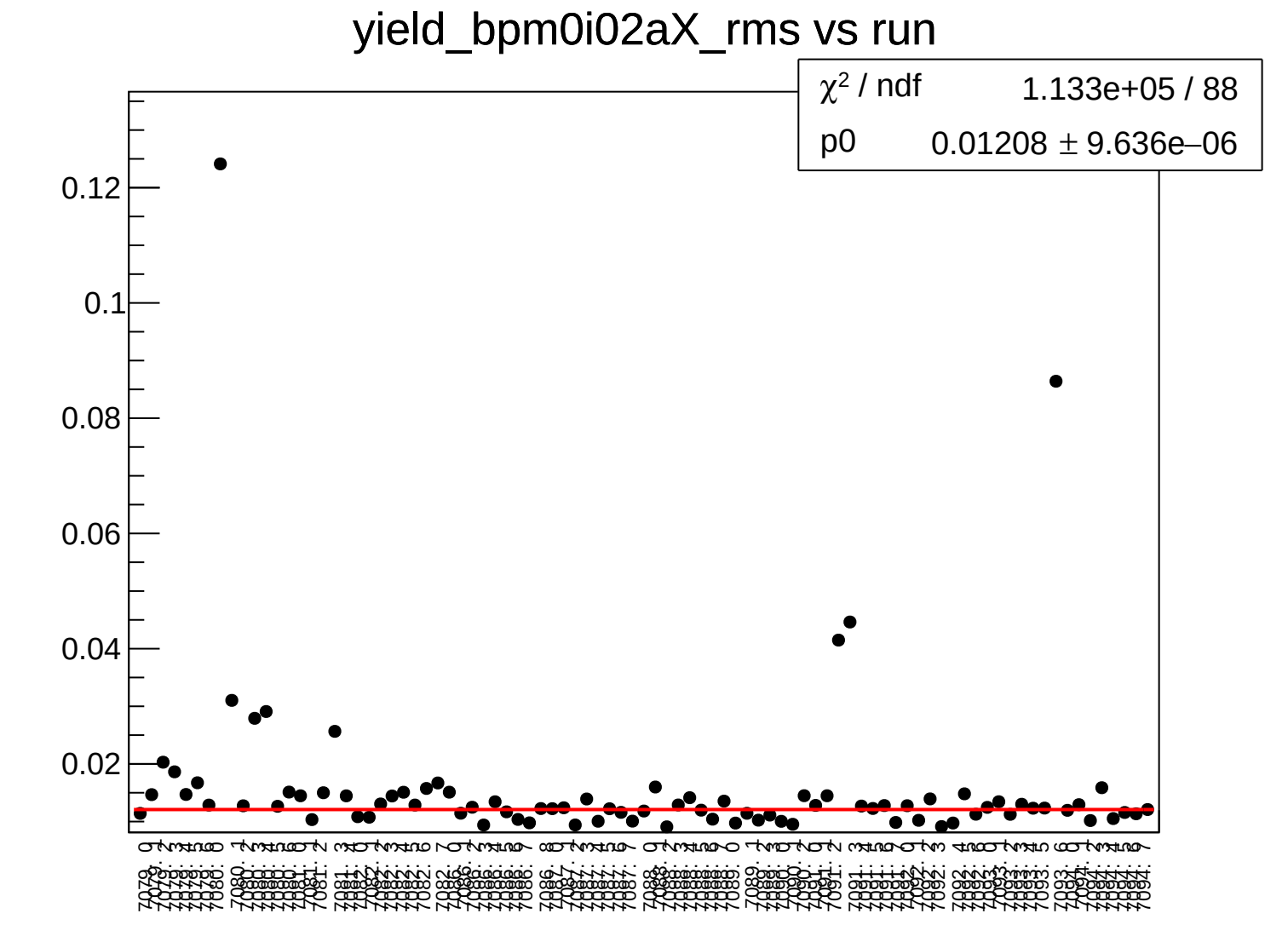

yield_bpm0i02Y_mean vs run
χ² / ndf 3.15e+07 / 88
p0 −2.446 ± 8.811e−06
−2.35
−2.4
−2.45
−2.5
−2.55
pull
Entries 89
Mean −243.4
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 89
Mean −2.671
Std Dev 2.891
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

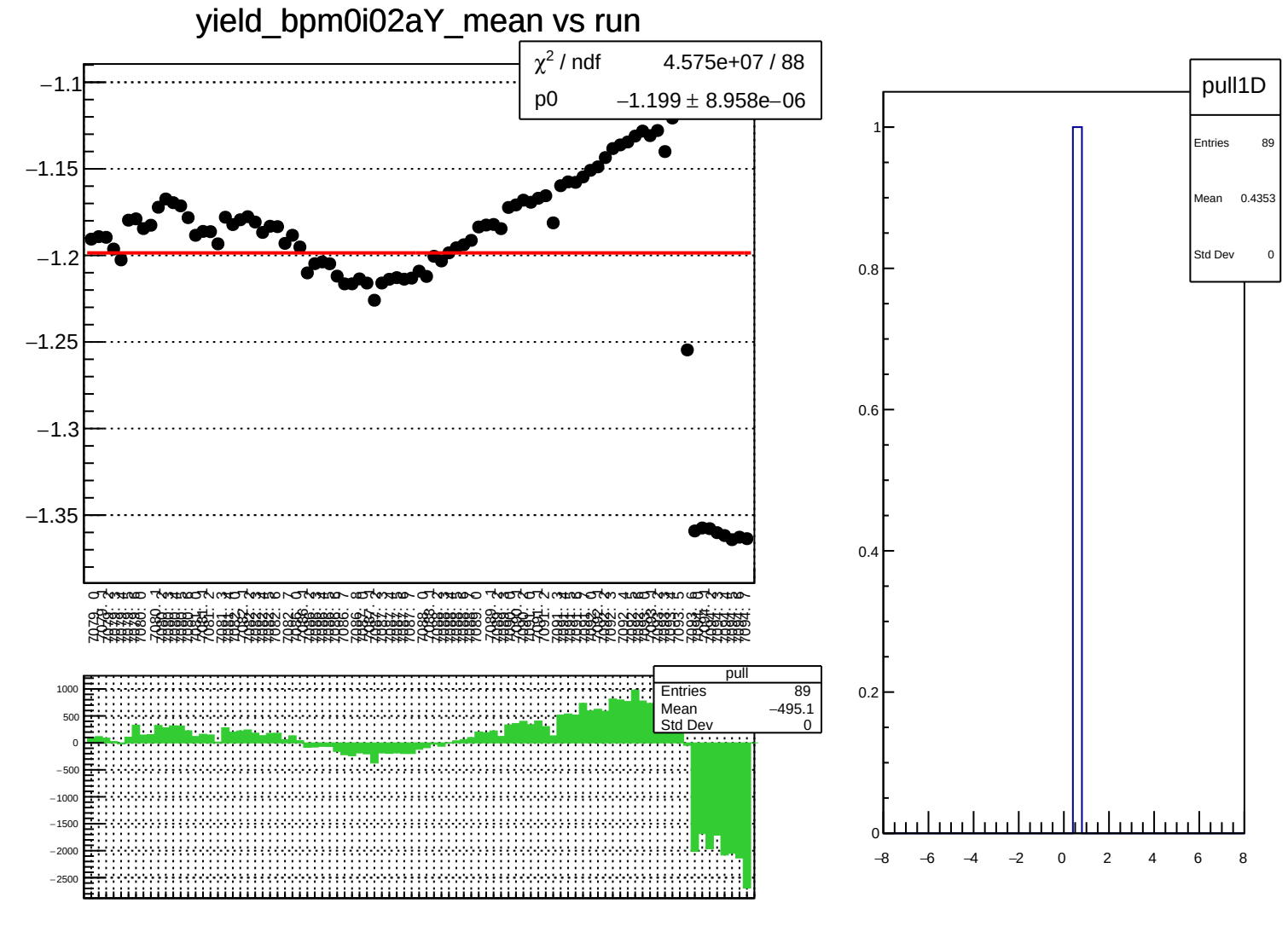
yield_bpm0i02Y_rms vs run

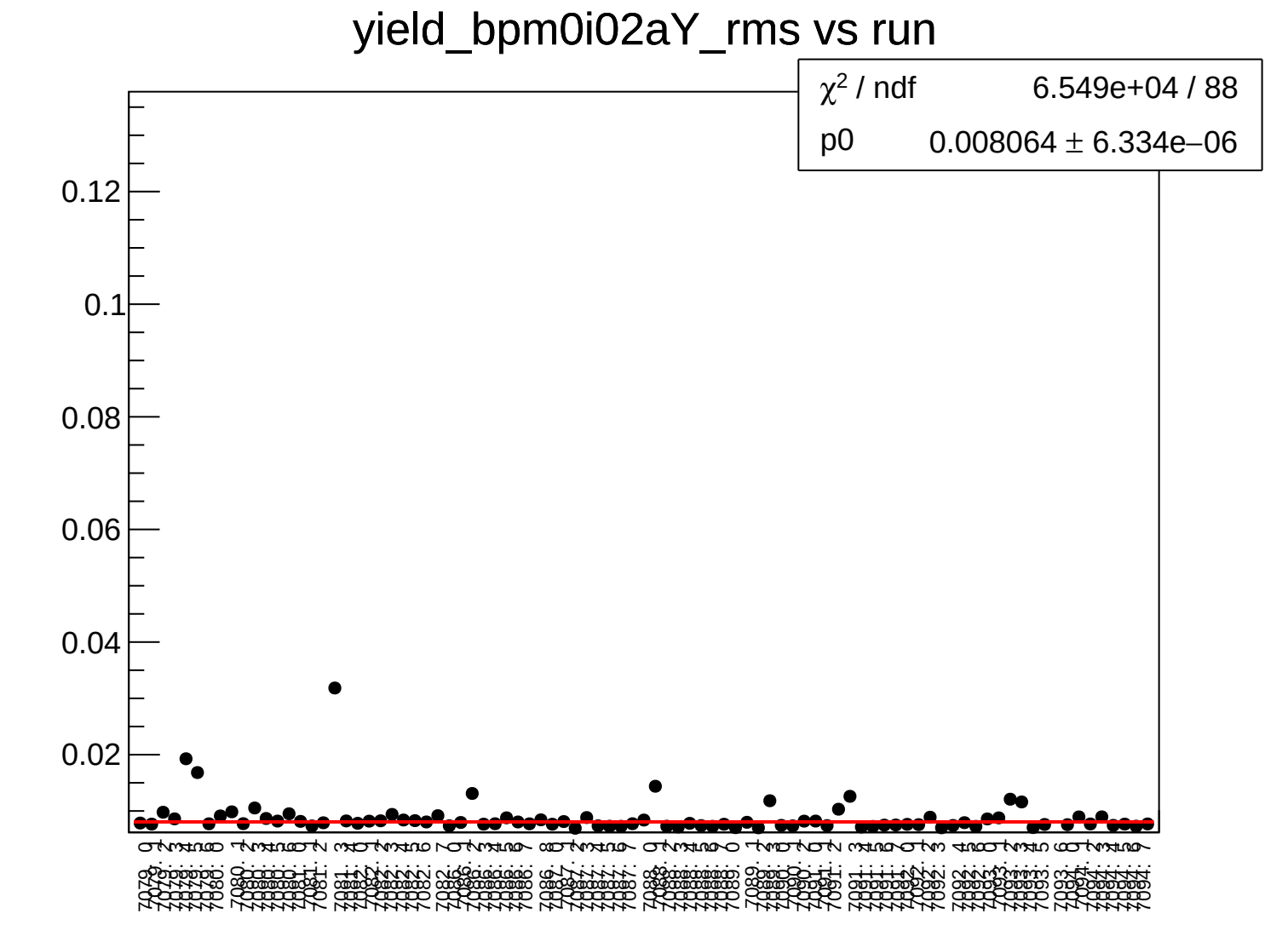


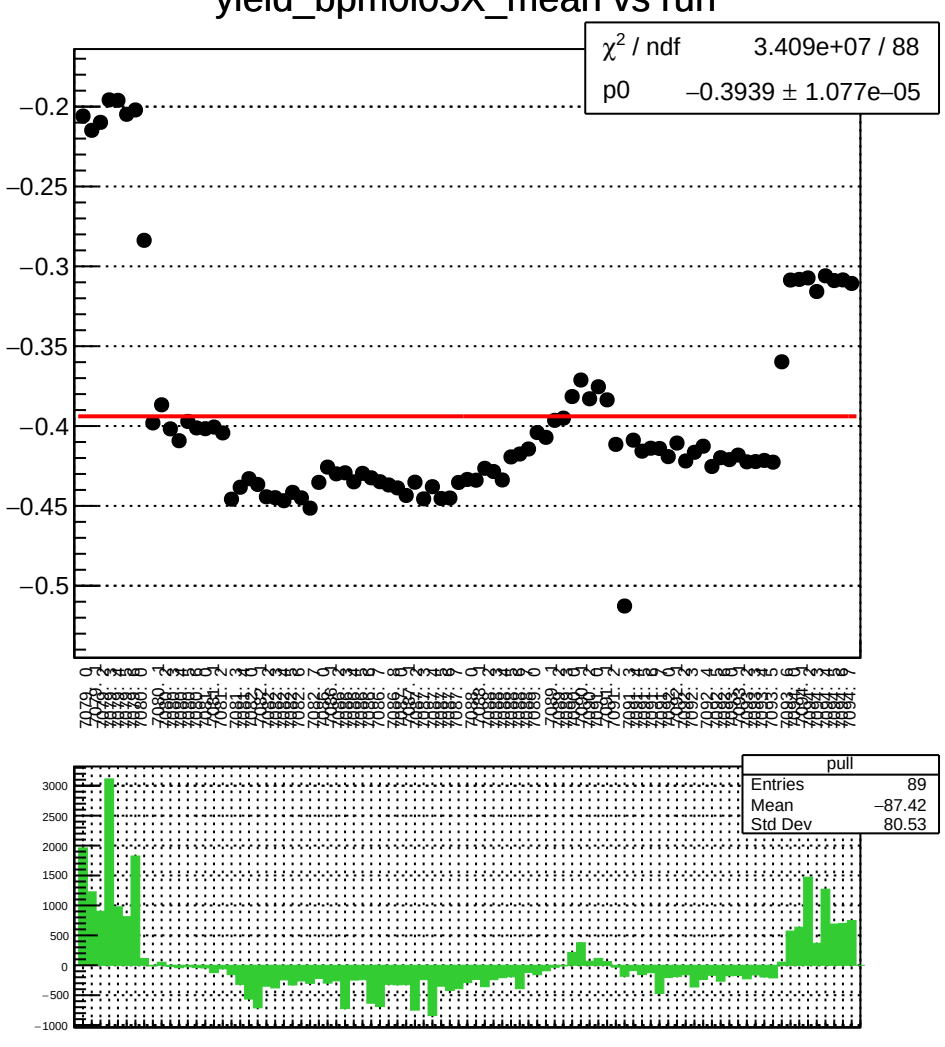

yield_bpm0i02aX_mean vs run
χ² / ndf 2.55e+07 / 88
p0 1.682 ± 1.363e−05
1.8
1.75
1.7
1.65
1.6
1.55
1.5
1.45
pull
Entries 89
Mean −988.2
Std Dev 0
500
0
−500
−1000
−1500
−2000

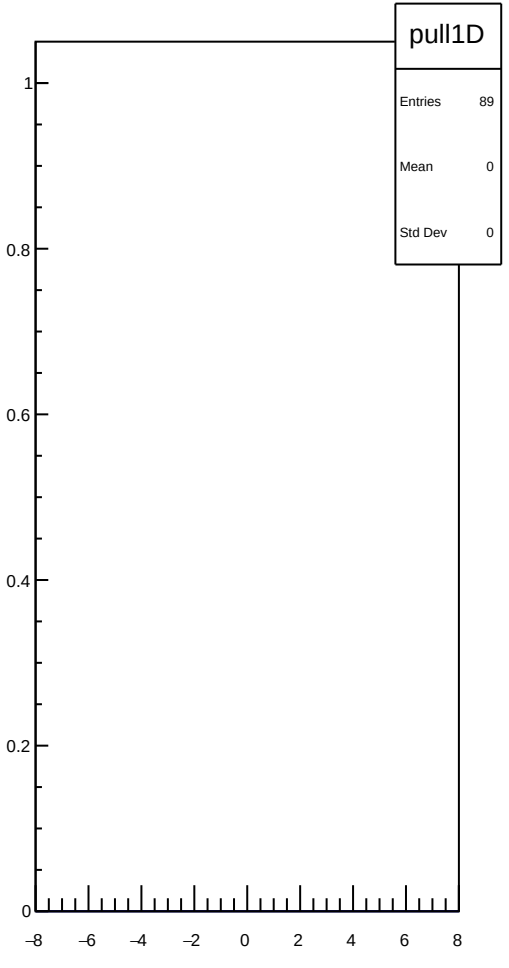

pull1D
Entries 89
Mean 4.547
Std Dev 3.072
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

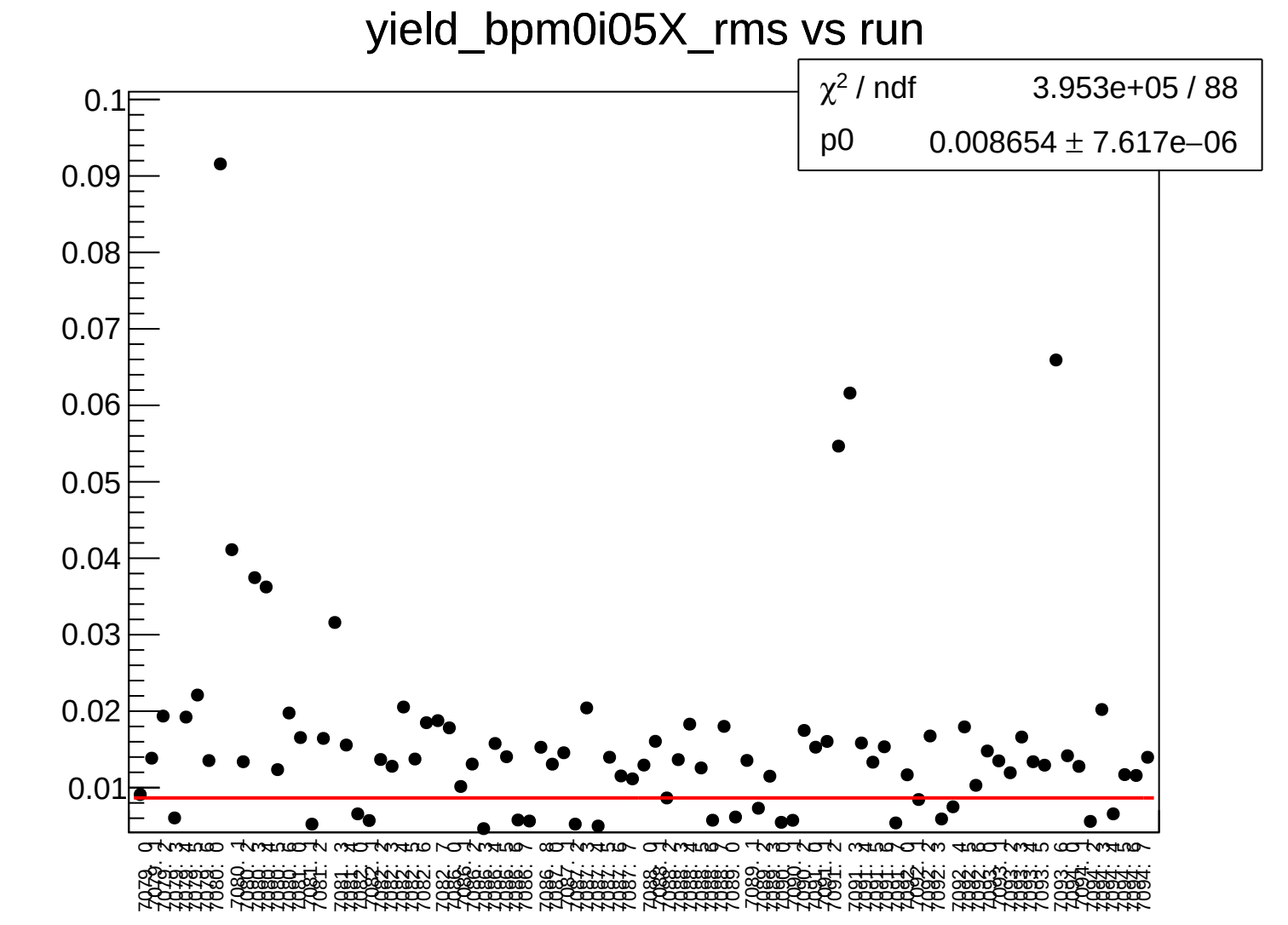

yield_bpm0i02aX_rms vs run
χ² / ndf 1.133e+05 / 88
p0 0.01208 ± 9.636e–06
0.12
0.1
0.08
0.06
0.04
0.02

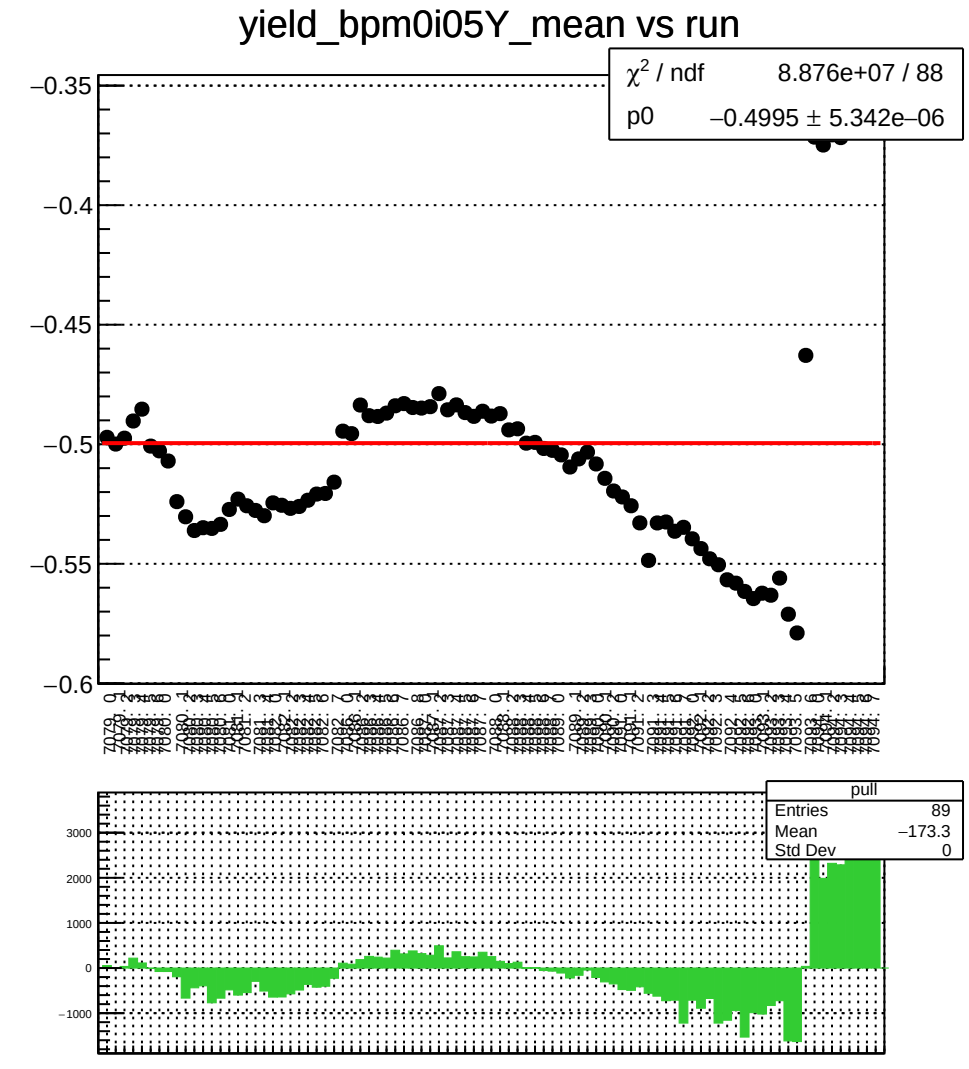

yield_bpm0i02aY_mean vs run
χ² / ndf 4.575e+07 / 88
p0 −1.199 ± 8.958e−06
−1.1
−1.15
−1.2
−1.25
−1.3
−1.35
pull
Entries 89
Mean −495.1
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 89
Mean 0.4353
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

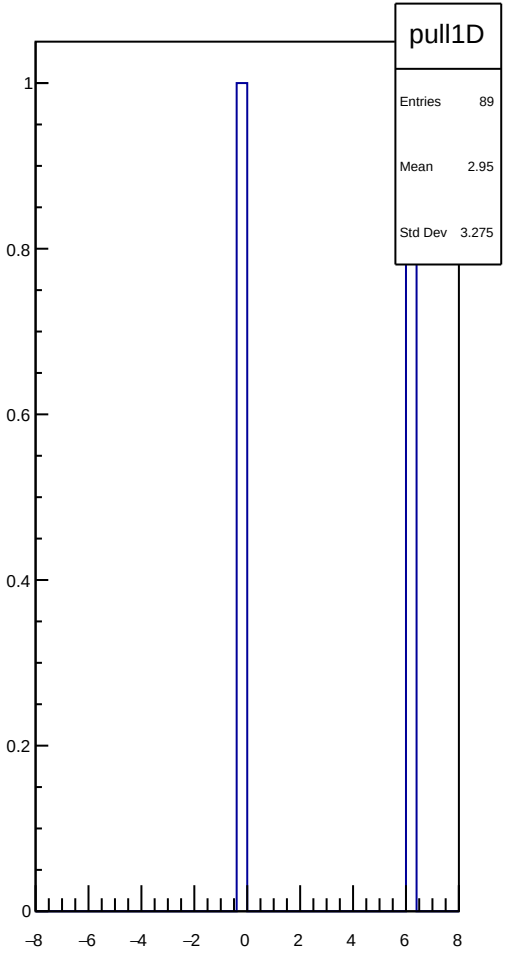

yield_bpm0i02aY_rms vs run
χ² / ndf 6.549e+04 / 88
p0 0.008064 ± 6.334e−06
0.12
0.1
0.08
0.06
0.04
0.02

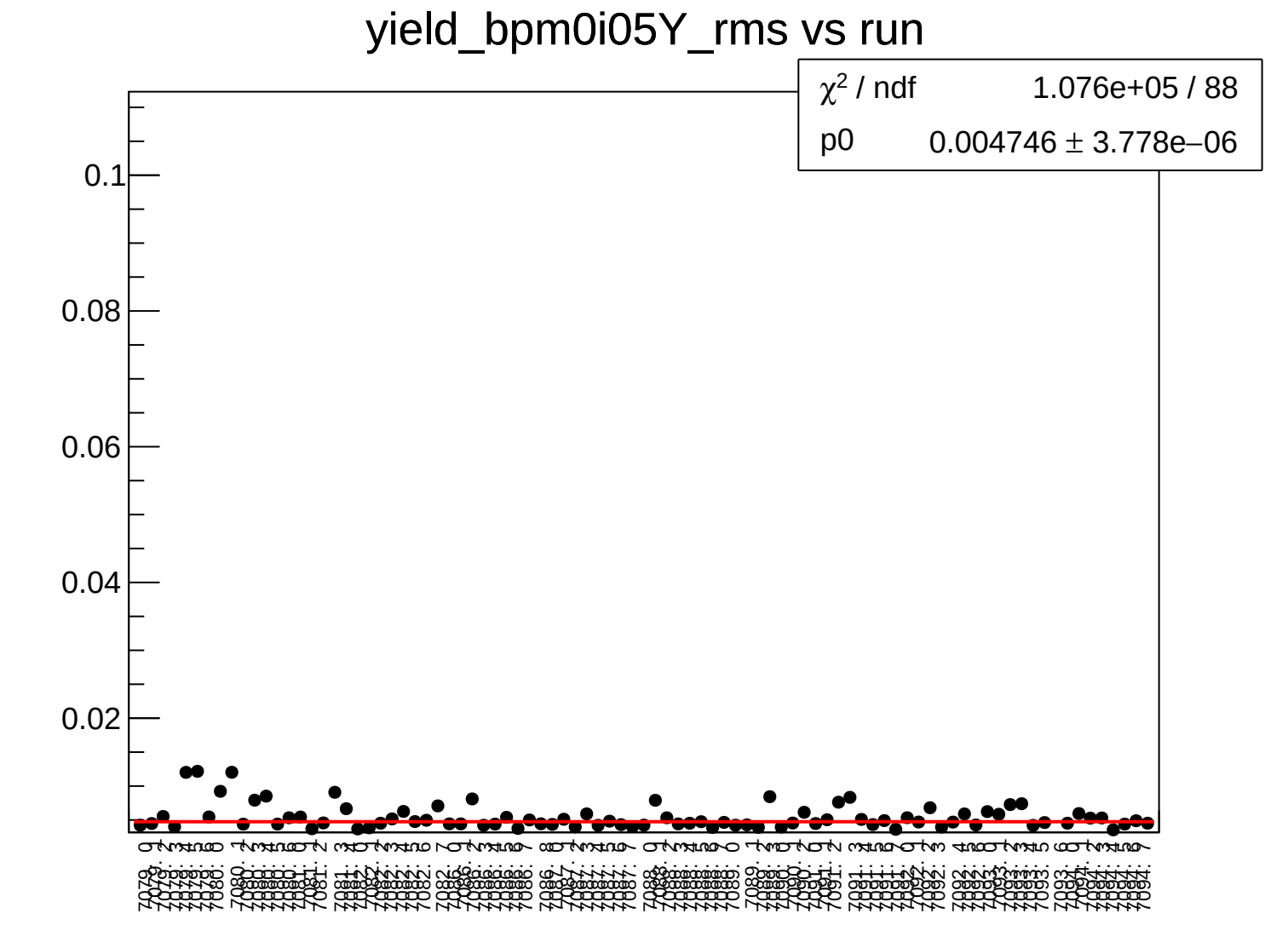

yield_bpm0i05X_mean vs run
χ² / ndf 3.409e+07 / 88
p0 −0.3939 ± 1.077e−05
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
pull
Entries 89
Mean −87.42
Std Dev 80.53
3000
2500
2000
1500
1000
500
0
−500
−1000

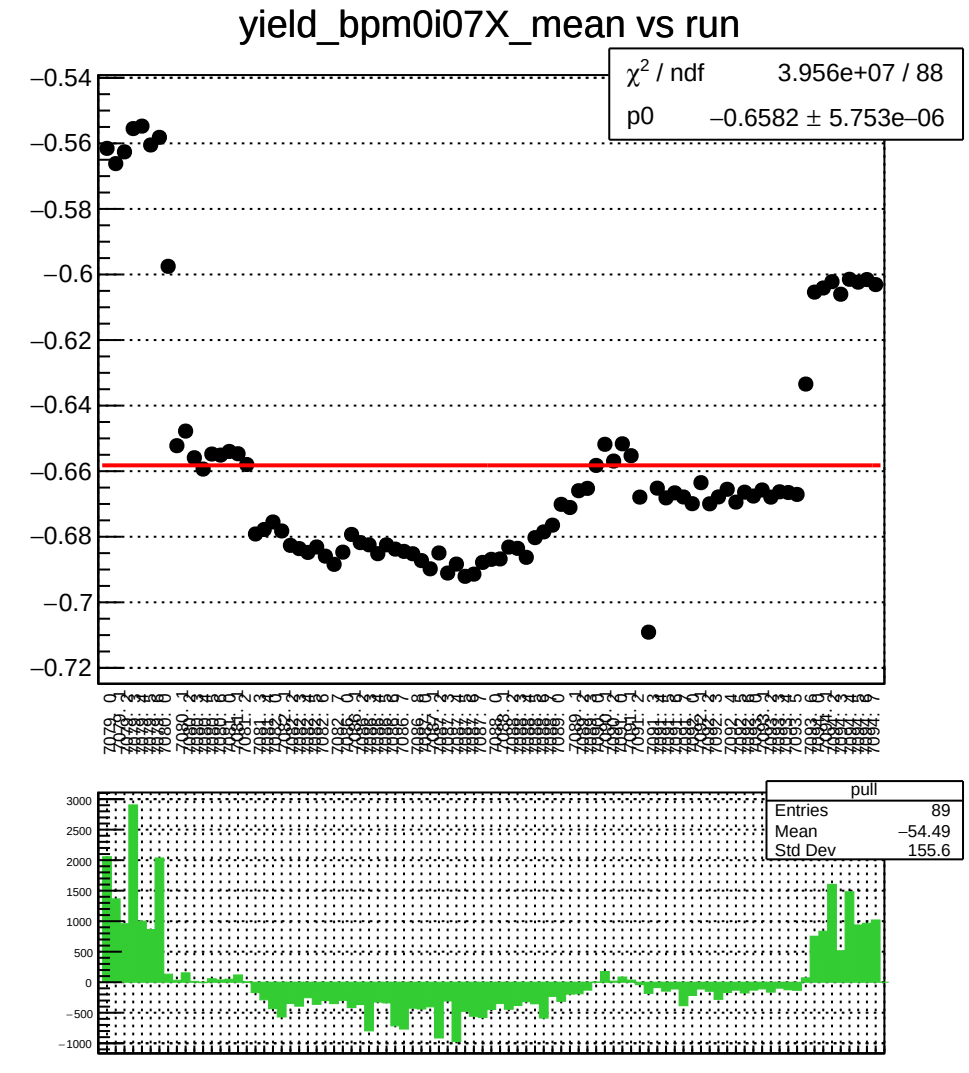

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

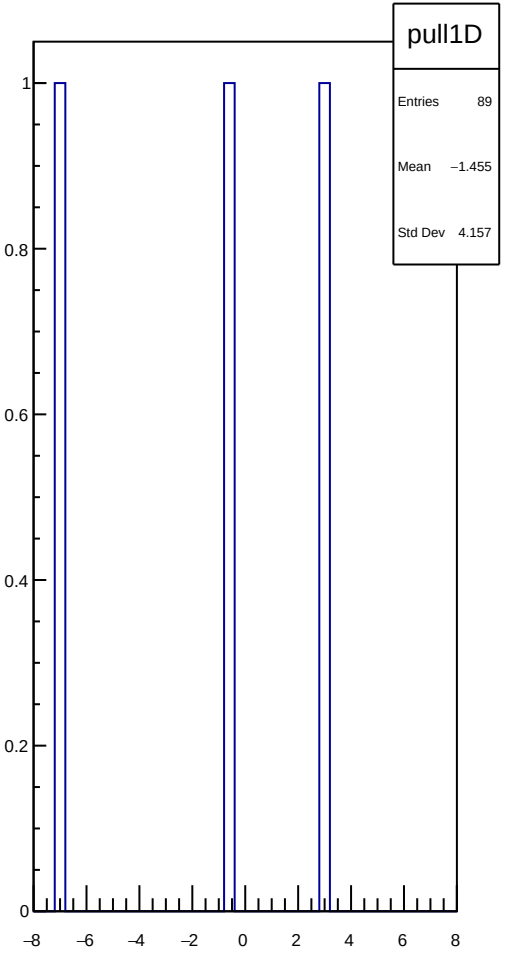

yield_bpm0i05X_rms vs run
χ² / ndf 3.953e+05 / 88
p0 0.008654 ± 7.617e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

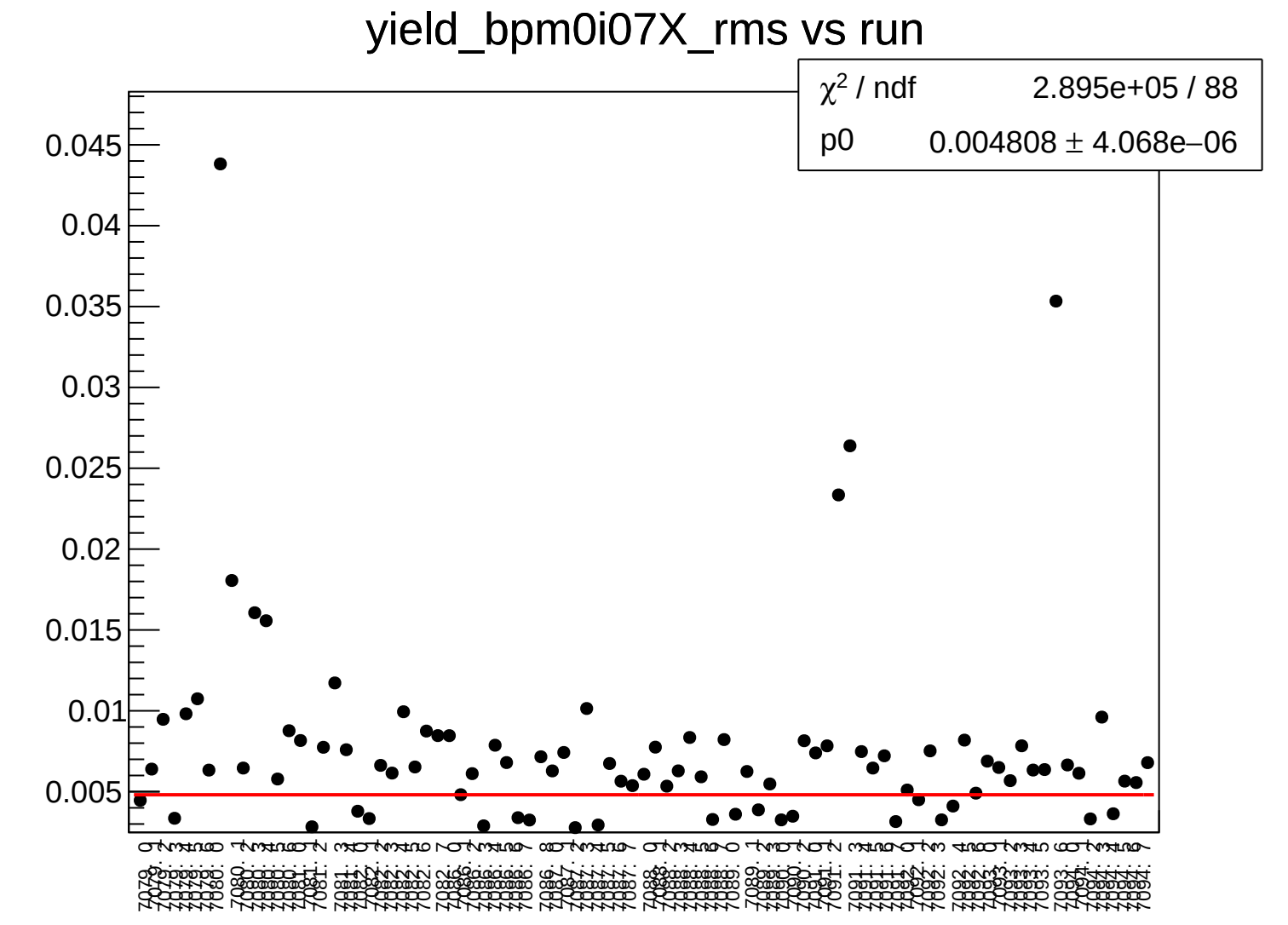

yield_bpm0i05Y_mean vs run
χ² / ndf 8.876e+07 / 88
p0 −0.4995 ± 5.342e−06
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
pull
Entries 89
Mean −173.3
Std Dev 0
3000
2000
1000
0
−1000

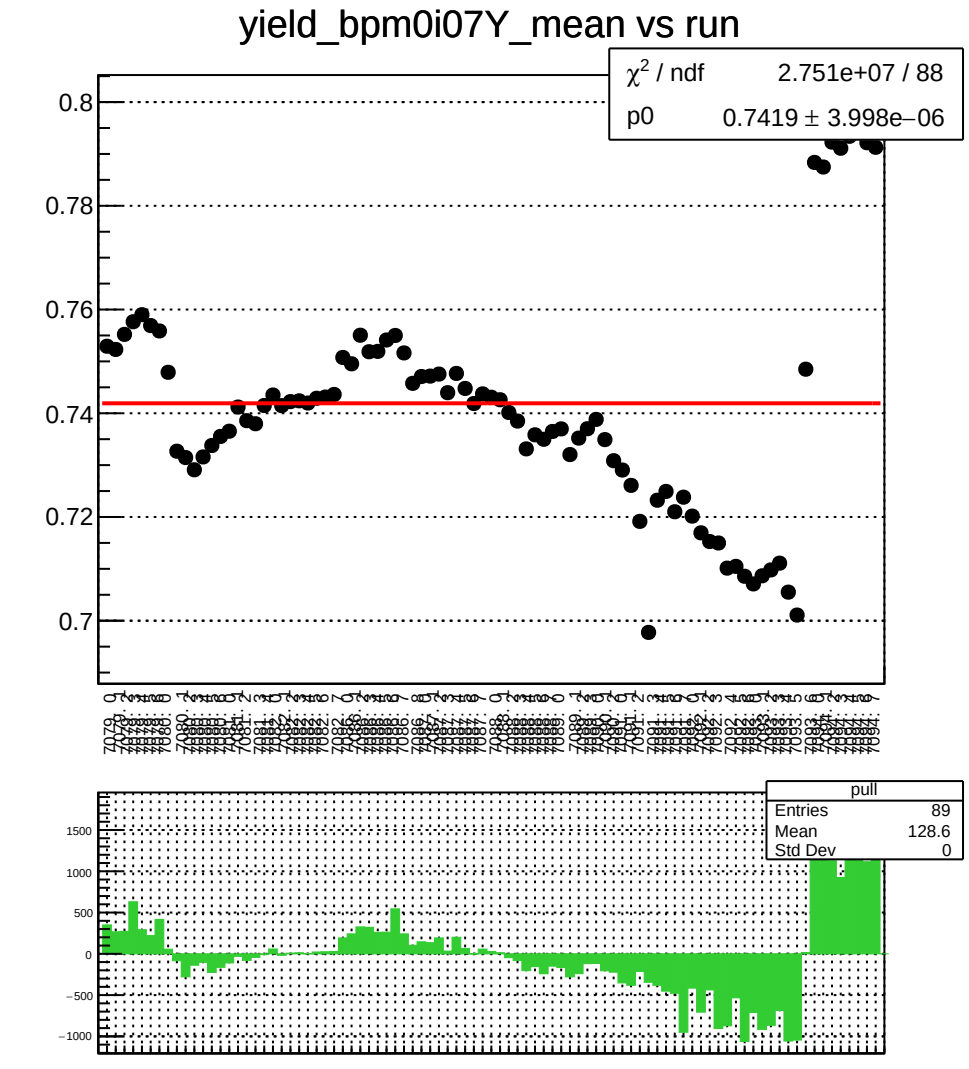

pull1D
Entries 89
Mean 2.95
Std Dev 3.275
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

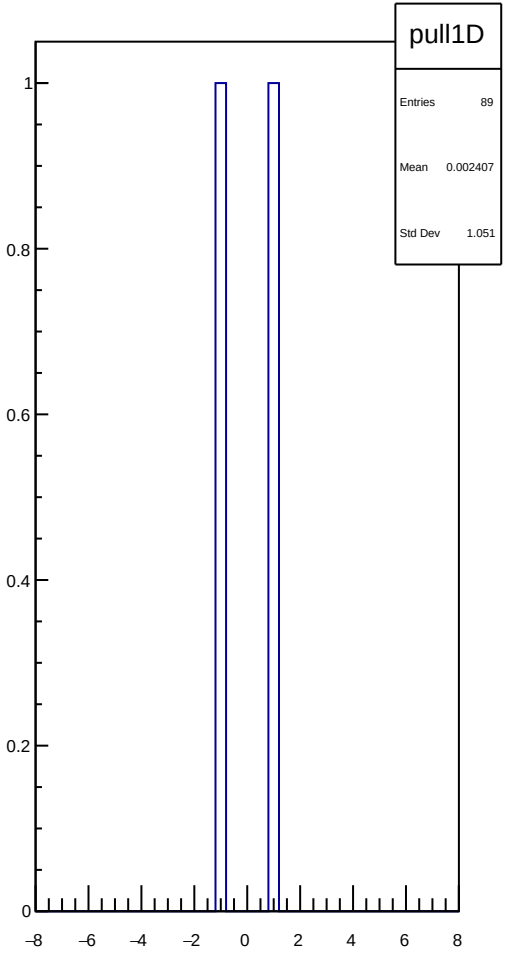

yield_bpm0i05Y_rms vs run
χ² / ndf 1.076e+05 / 88
p0 0.004746 ± 3.778e−06
0.1
0.08
0.06
0.04
0.02

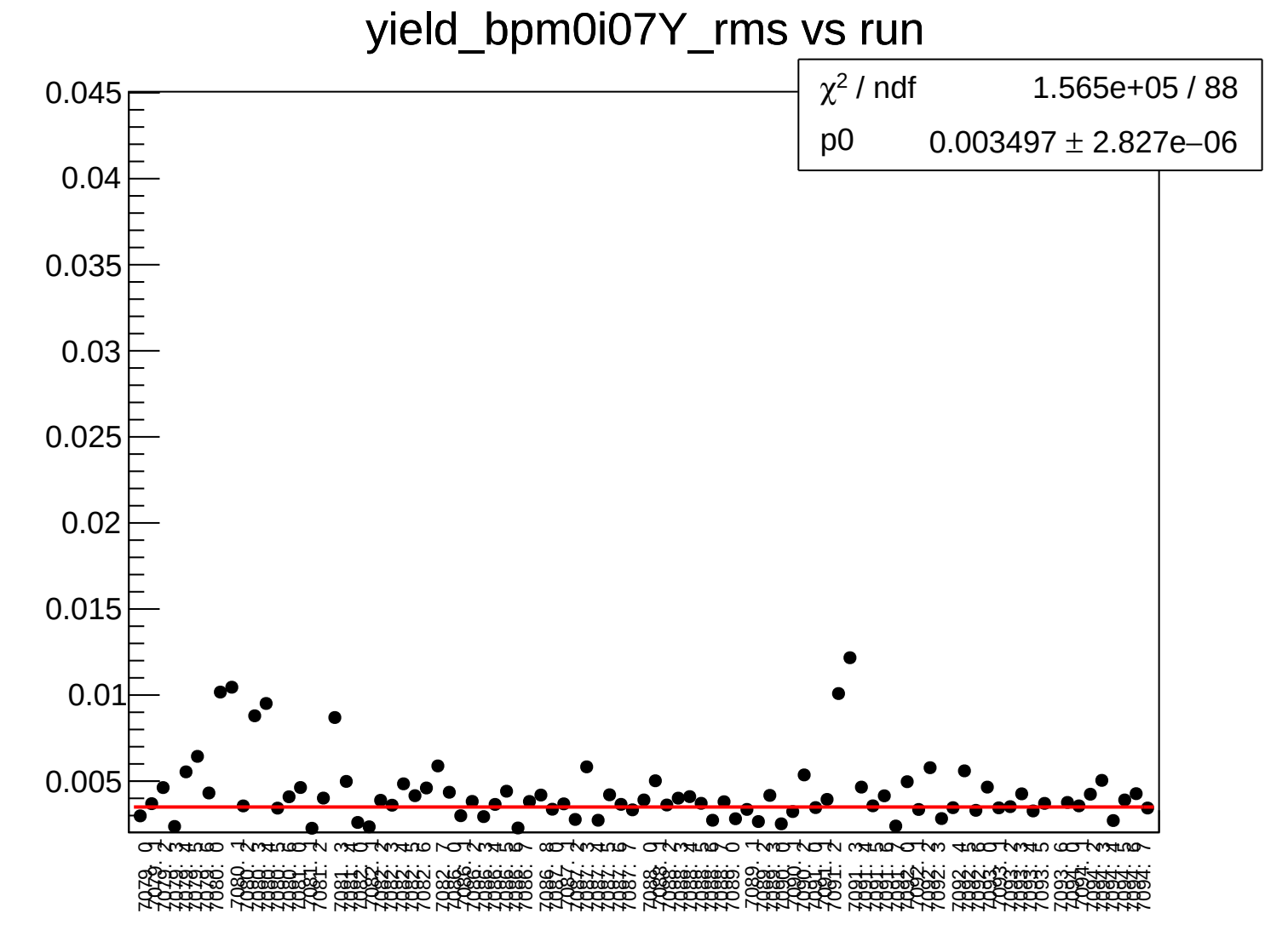

yield_bpm0i07X_mean vs run
χ² / ndf 3.956e+07 / 88
p0 −0.6582 ± 5.753e−06
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
pull
Entries 89
Mean −54.49
Std Dev 155.6
3000
2500
2000
1500
1000
500
0
−500
−1000

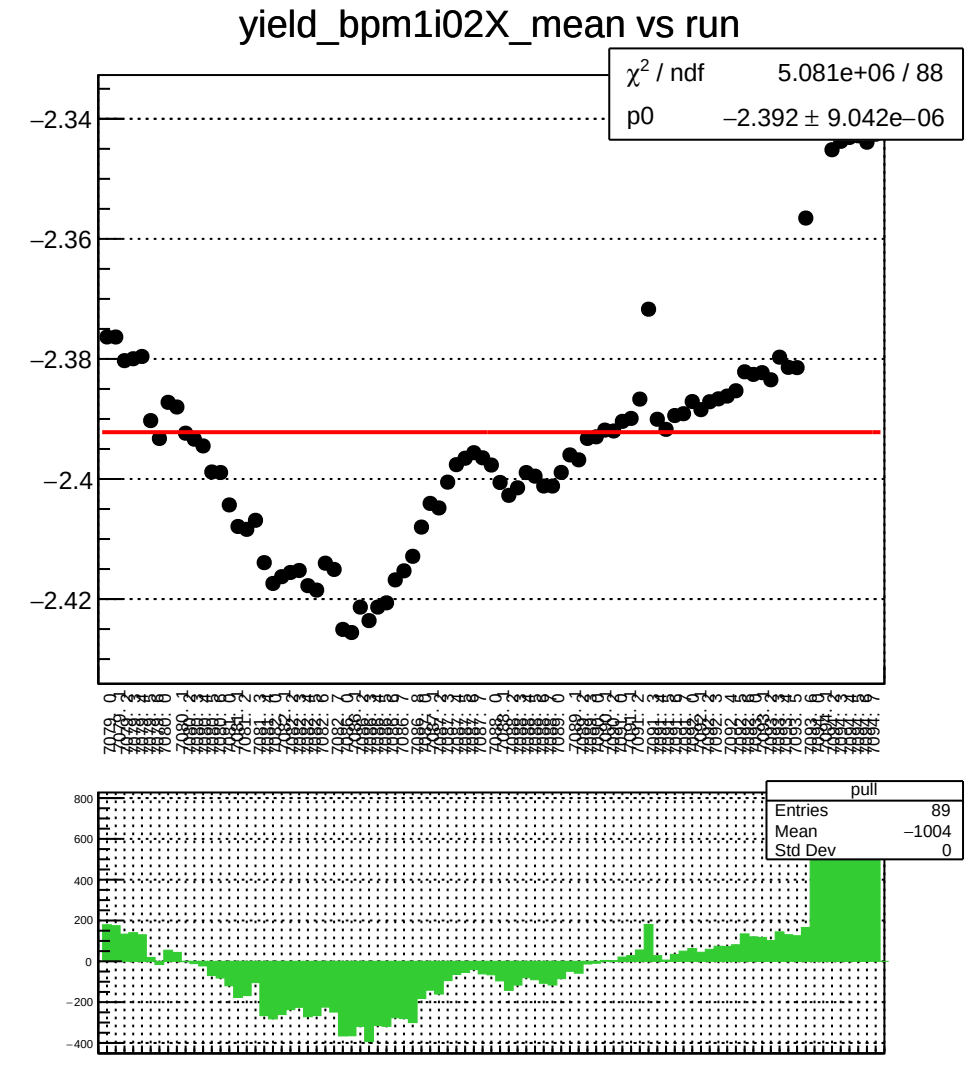

pull1D
Entries 89
Mean −1.455
Std Dev 4.157
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

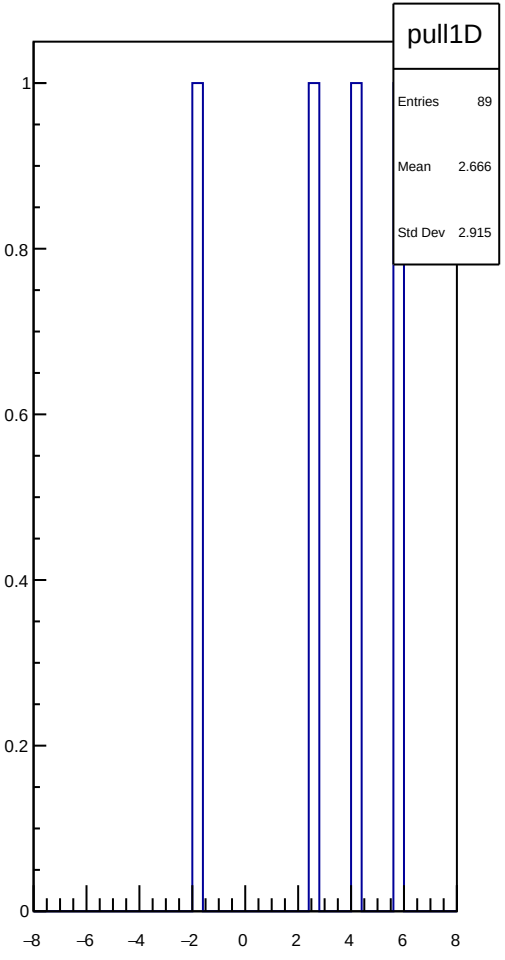

yield_bpm0i07X_rms vs run
χ² / ndf 2.895e+05 / 88
p0 0.004808 ± 4.068e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

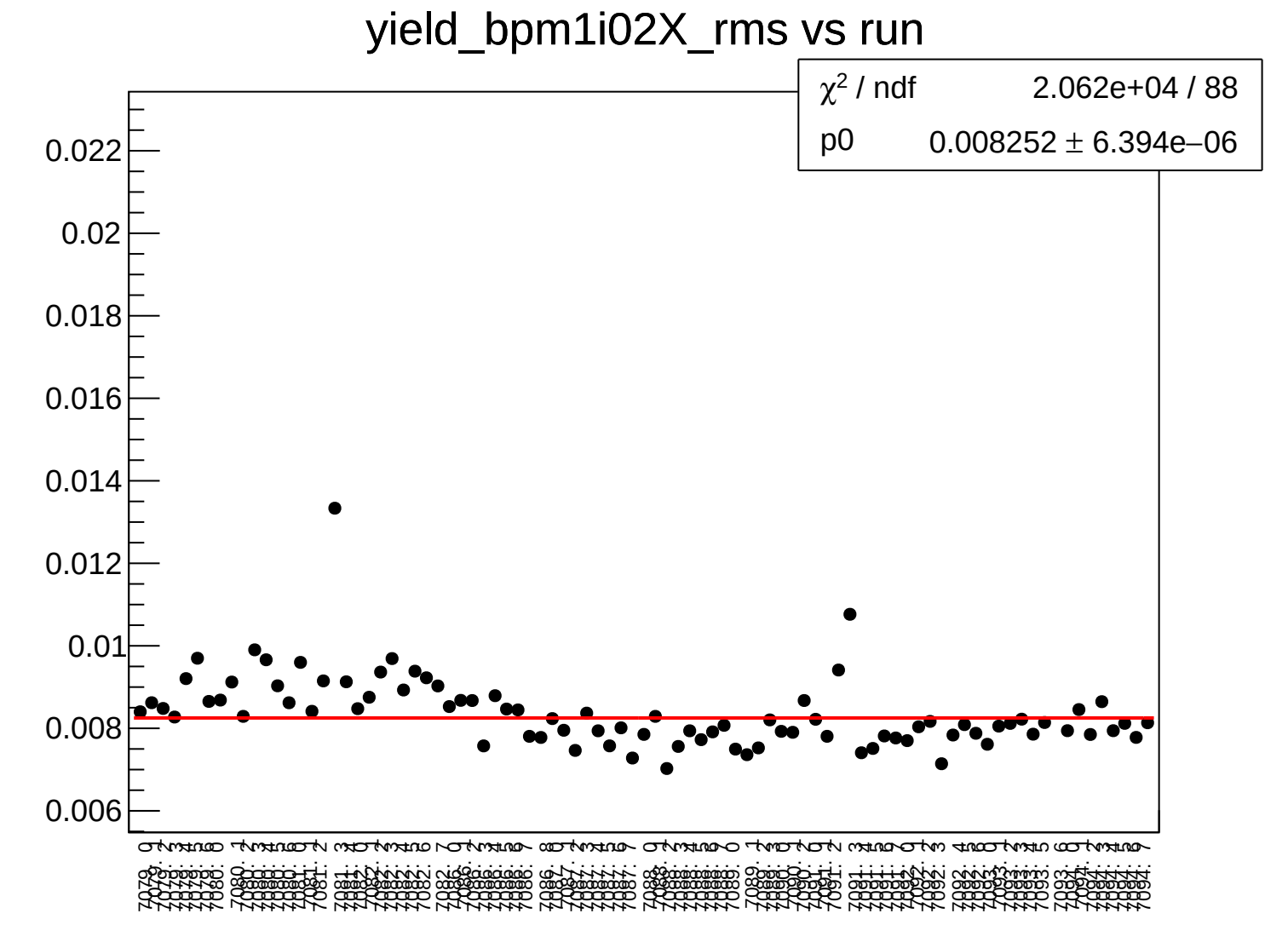

yield_bpm0i07Y_mean vs run
χ² / ndf 2.751e+07 / 88
p0 0.7419 ± 3.998e−06
0.8
0.78
0.76
0.74
0.72
0.7
pull
Entries 89
Mean 128.6
Std Dev 0
1500
1000
500
0
−500
−1000

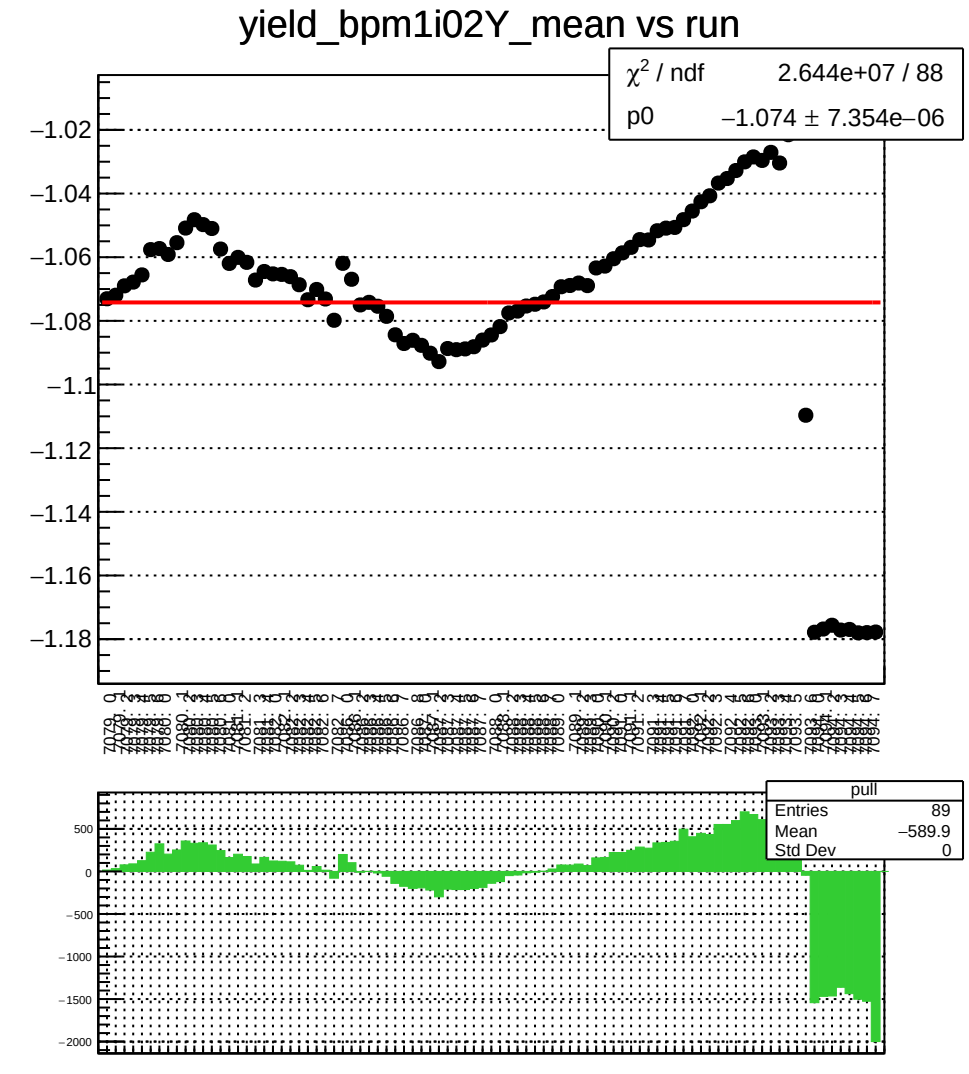

pull1D
Entries 89
Mean 0.002407
Std Dev 1.051
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

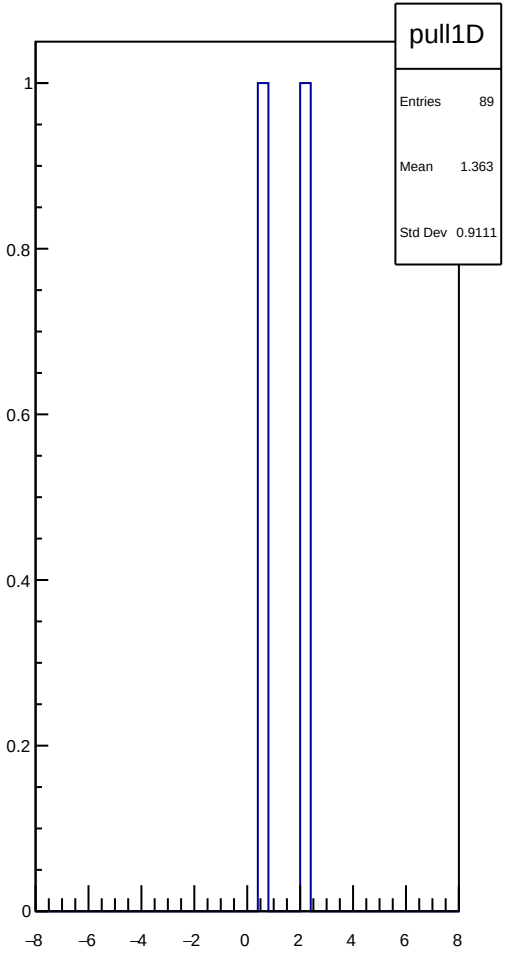

yield_bpm0i07Y_rms vs run
χ² / ndf 1.565e+05 / 88
p0 0.003497 ± 2.827e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

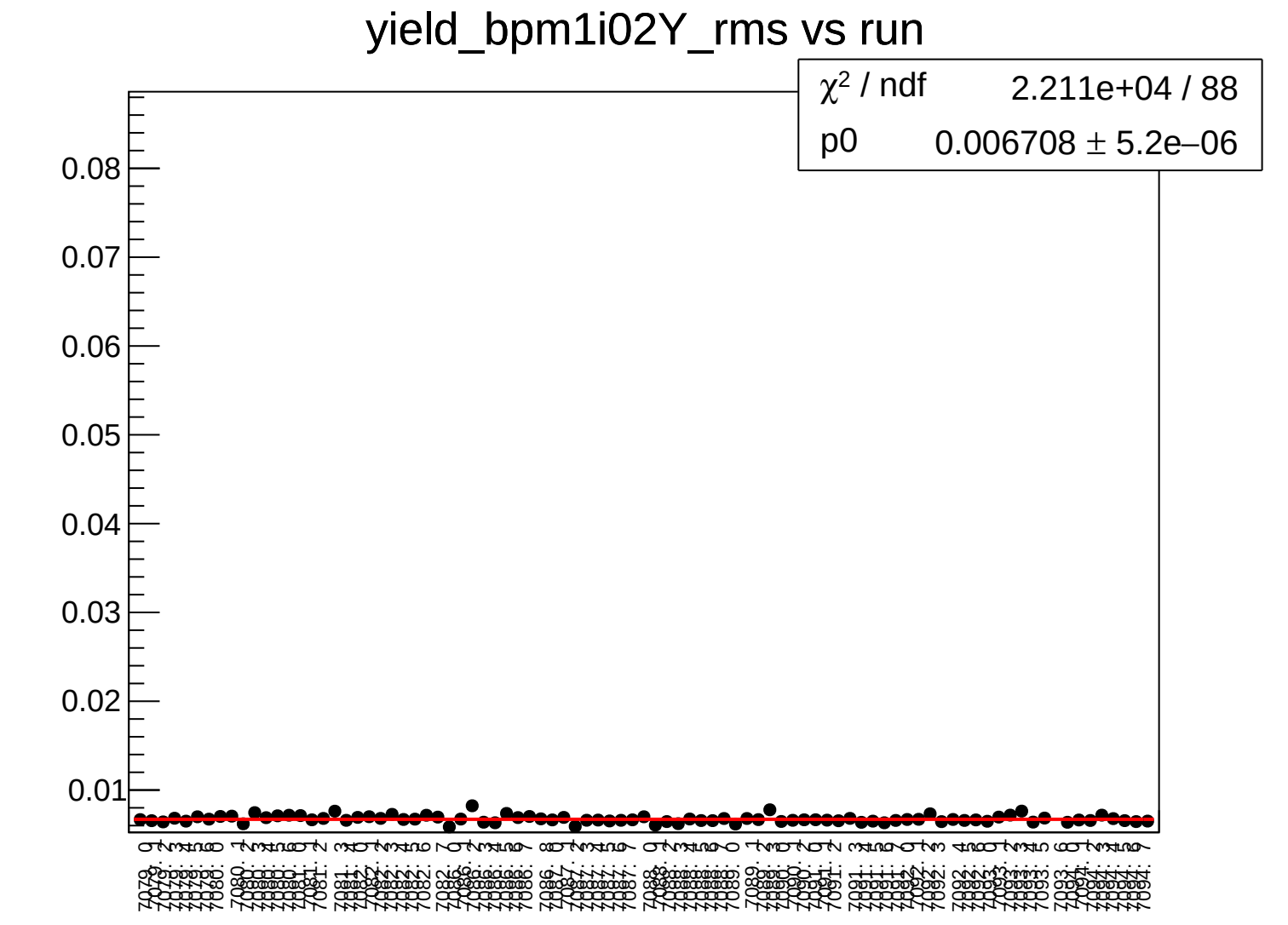

yield_bpm1i02X_mean vs run
χ² / ndf 5.081e+06 / 88
p0 −2.392 ± 9.042e−06
−2.34
−2.36
−2.38
−2.4
−2.42
pull
Entries 89
Mean −1004
Std Dev 0
800
600
400
200
0
−200
−400

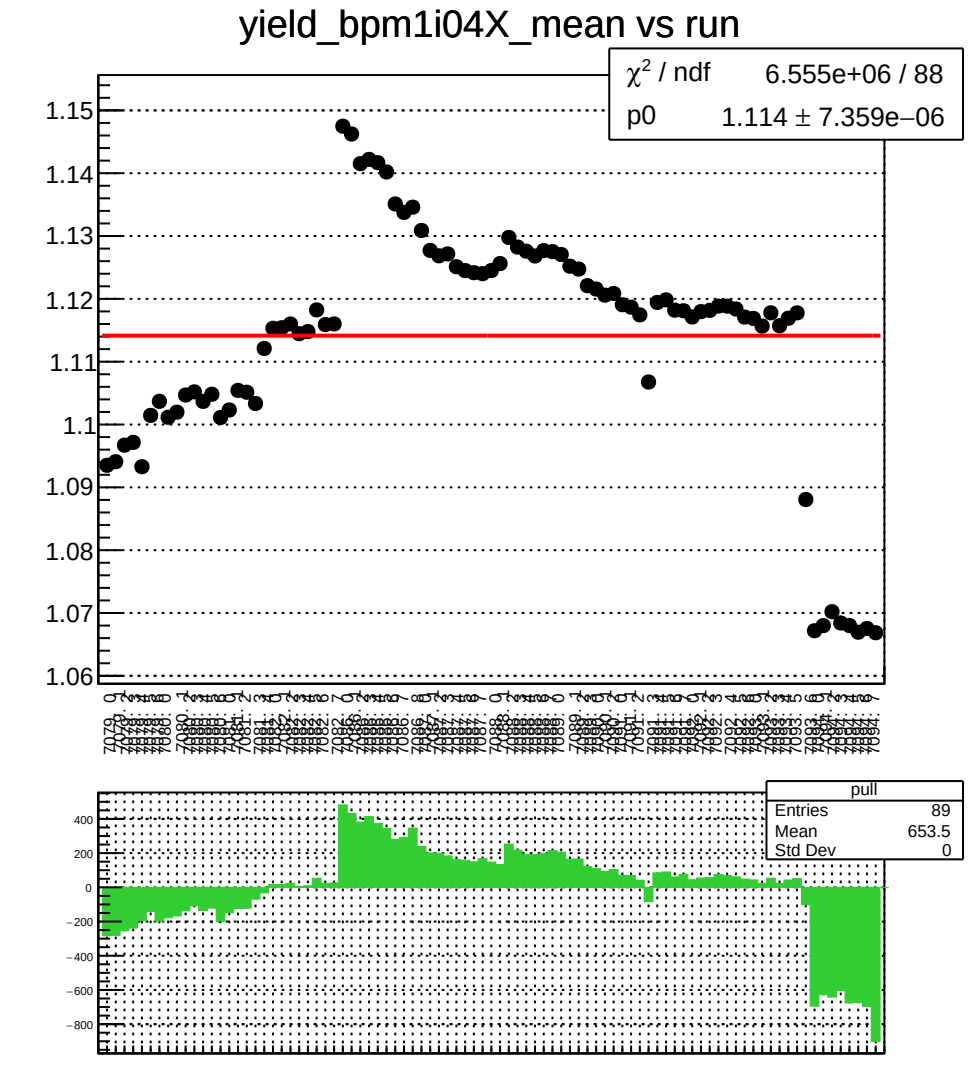

pull1D
Entries 89
Mean 2.666
Std Dev 2.915
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

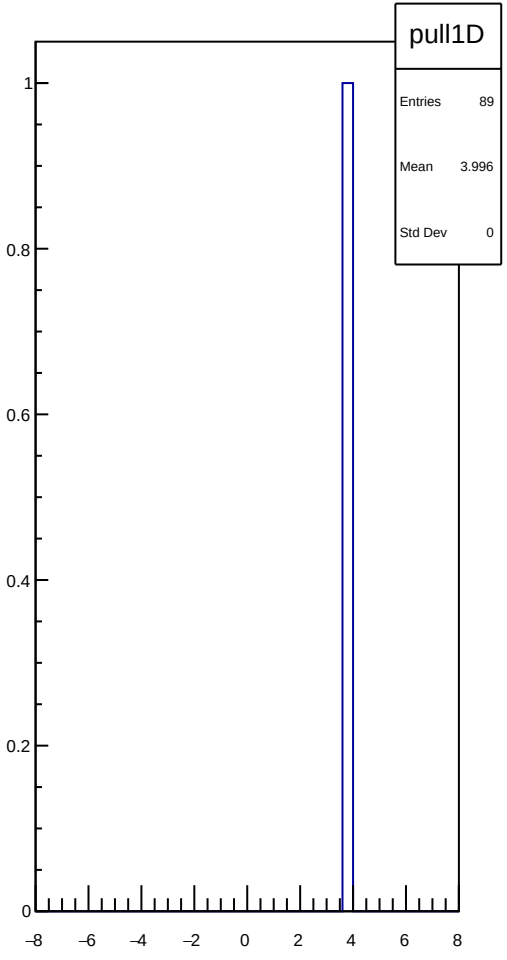

yield_bpm1i02X_rms vs run
χ² / ndf 2.062e+04 / 88
p0 0.008252 ± 6.394e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

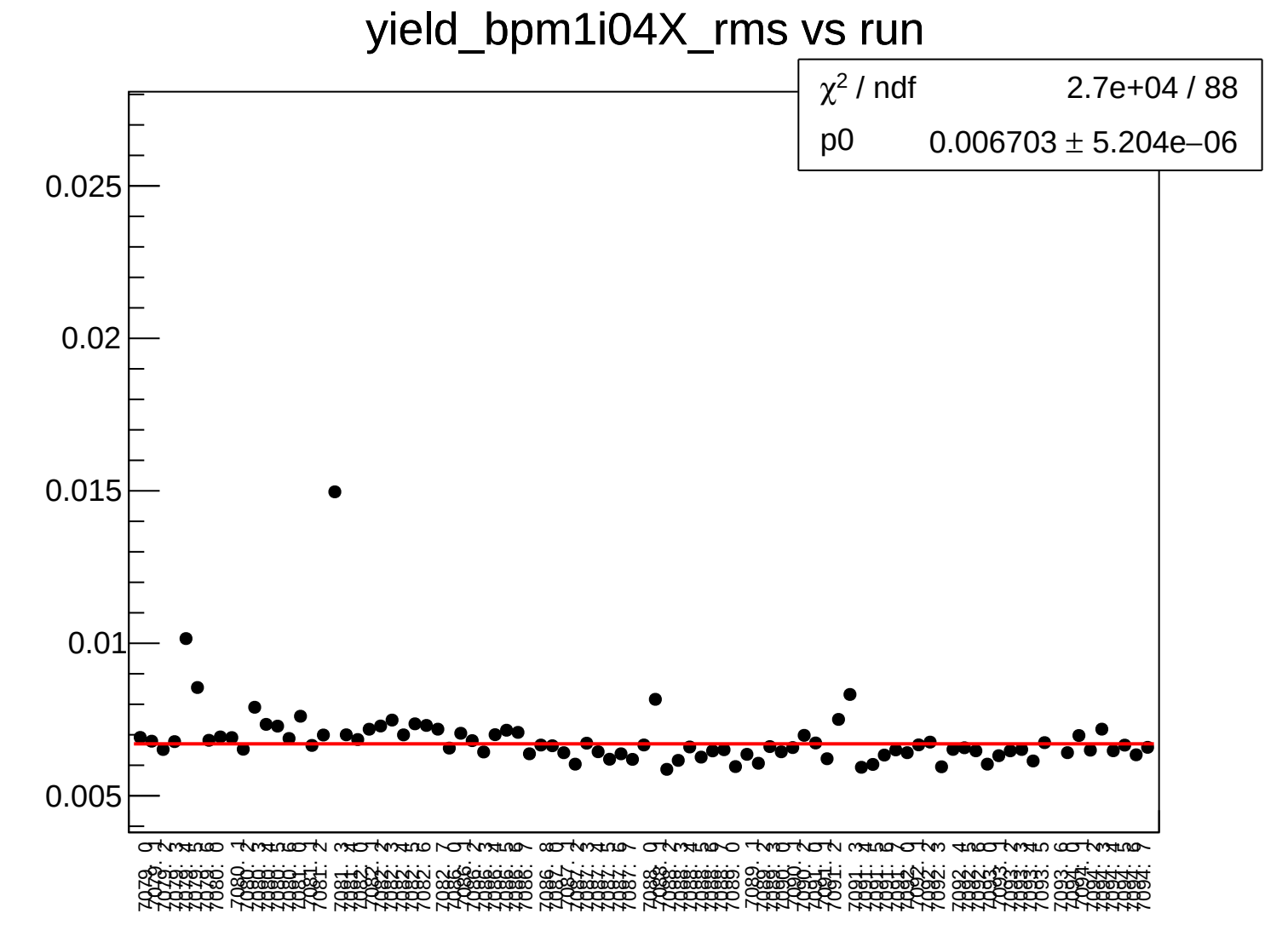

yield_bpm1i02Y_mean vs run
χ² / ndf 2.644e+07 / 88
p0 −1.074 ± 7.354e−06
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
pull
Entries 89
Mean −589.9
Std Dev 0
500
0
−500
−1000
−1500
−2000

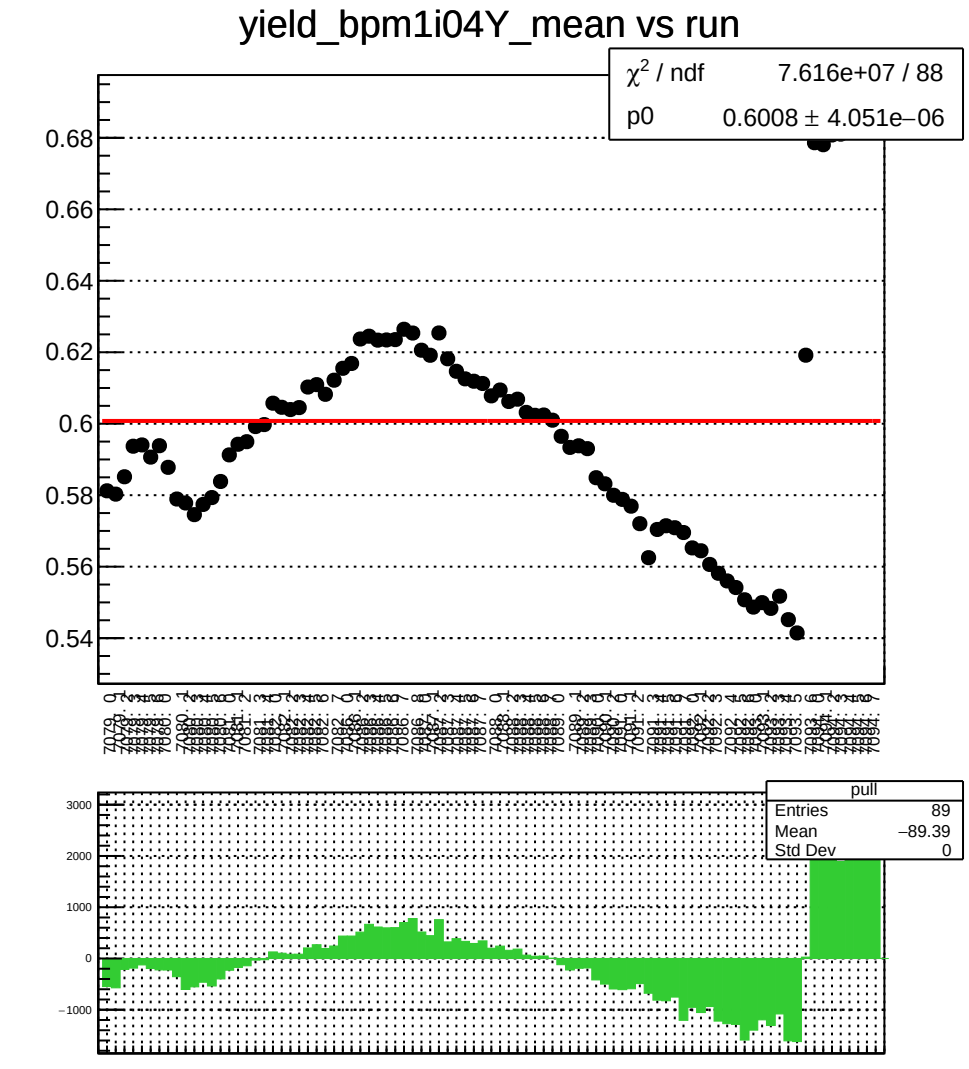

pull1D
Entries 89
Mean 1.363
Std Dev 0.9111
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

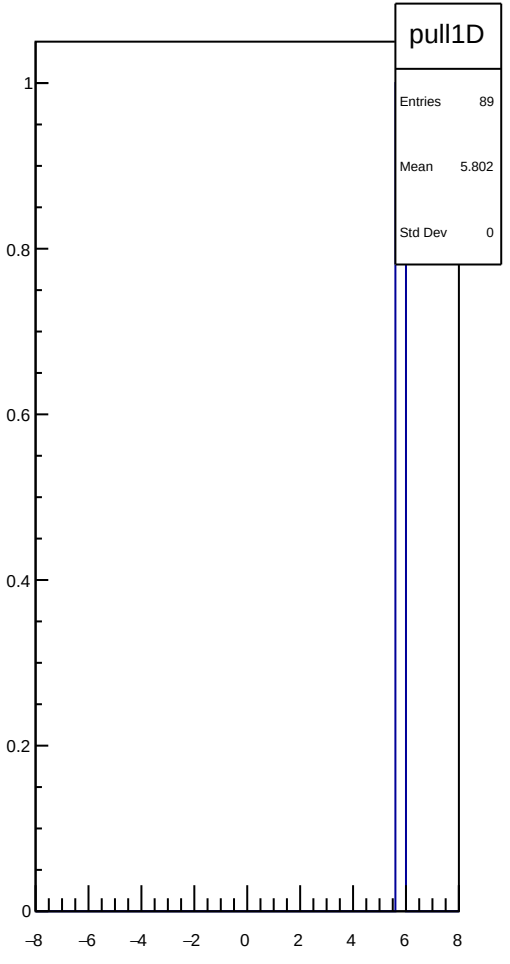

yield_bpm1i02Y_rms vs run
χ^2 / ndf 2.211e+04 / 88
p0 0.006708 ± 5.2e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

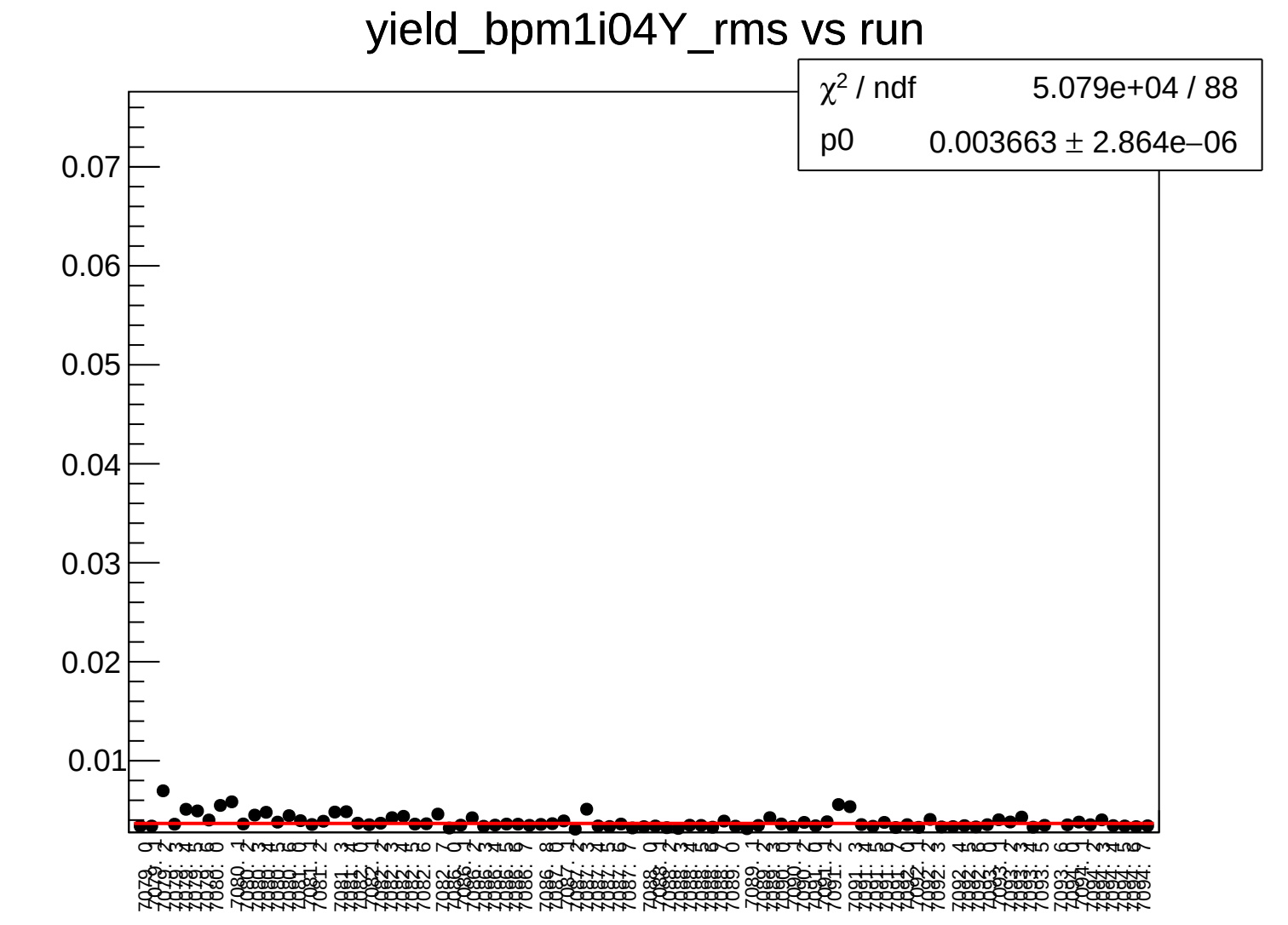

yield_bpm1i04X_mean vs run
χ² / ndf 6.555e+06 / 88
p0 1.114 ± 7.359e−06
pull
Entries 89
Mean 653.5
Std Dev 0

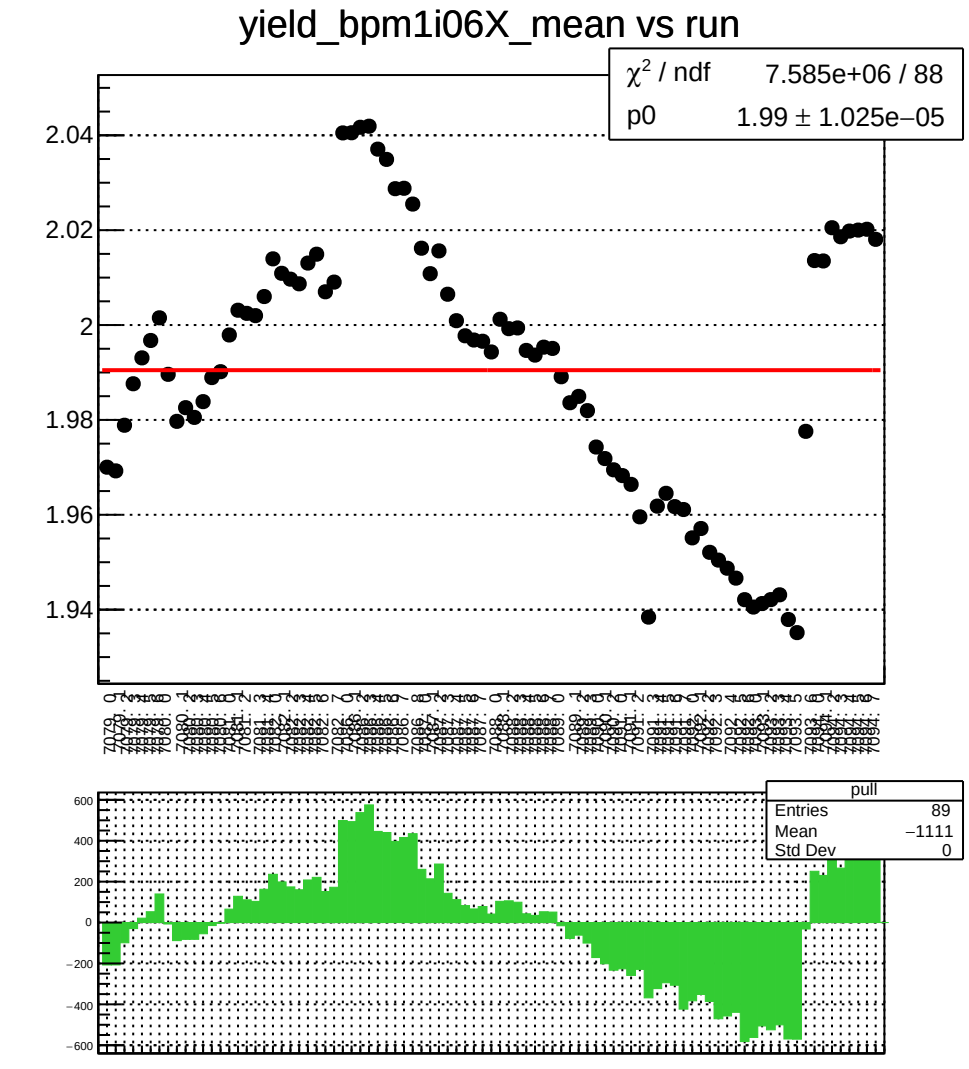

pull1D
Entries 89
Mean 3.996
Std Dev 0

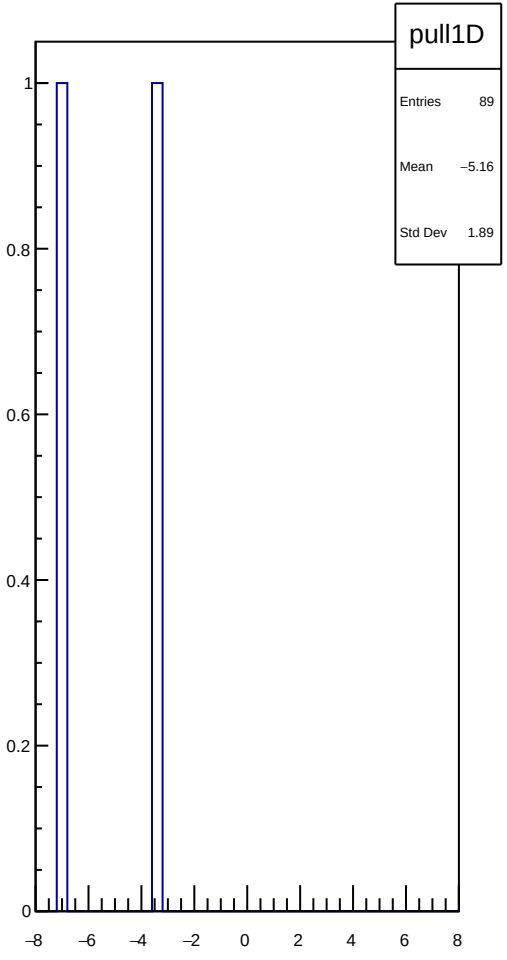

yield_bpm1i04X_rms vs run
χ² / ndf 2.7e+04 / 88
p0 0.006703 ± 5.204e−06
0.025
0.02
0.015
0.01
0.005

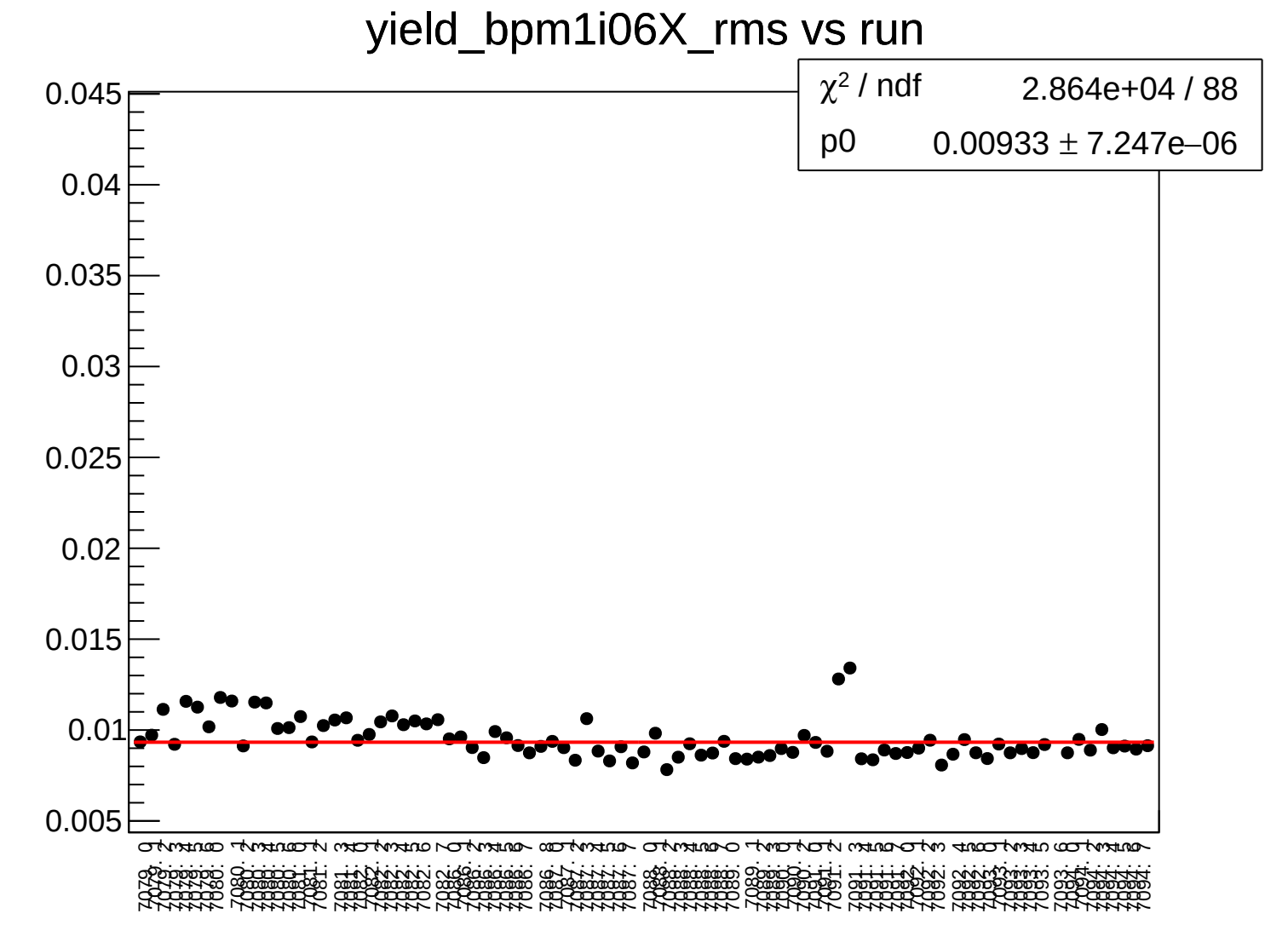

yield_bpm1i04Y_mean vs run
χ² / ndf 7.616e+07 / 88
p0 0.6008 ± 4.051e−06
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
pull
Entries 89
Mean −89.39
Std Dev 0
3000
2000
1000
0
−1000

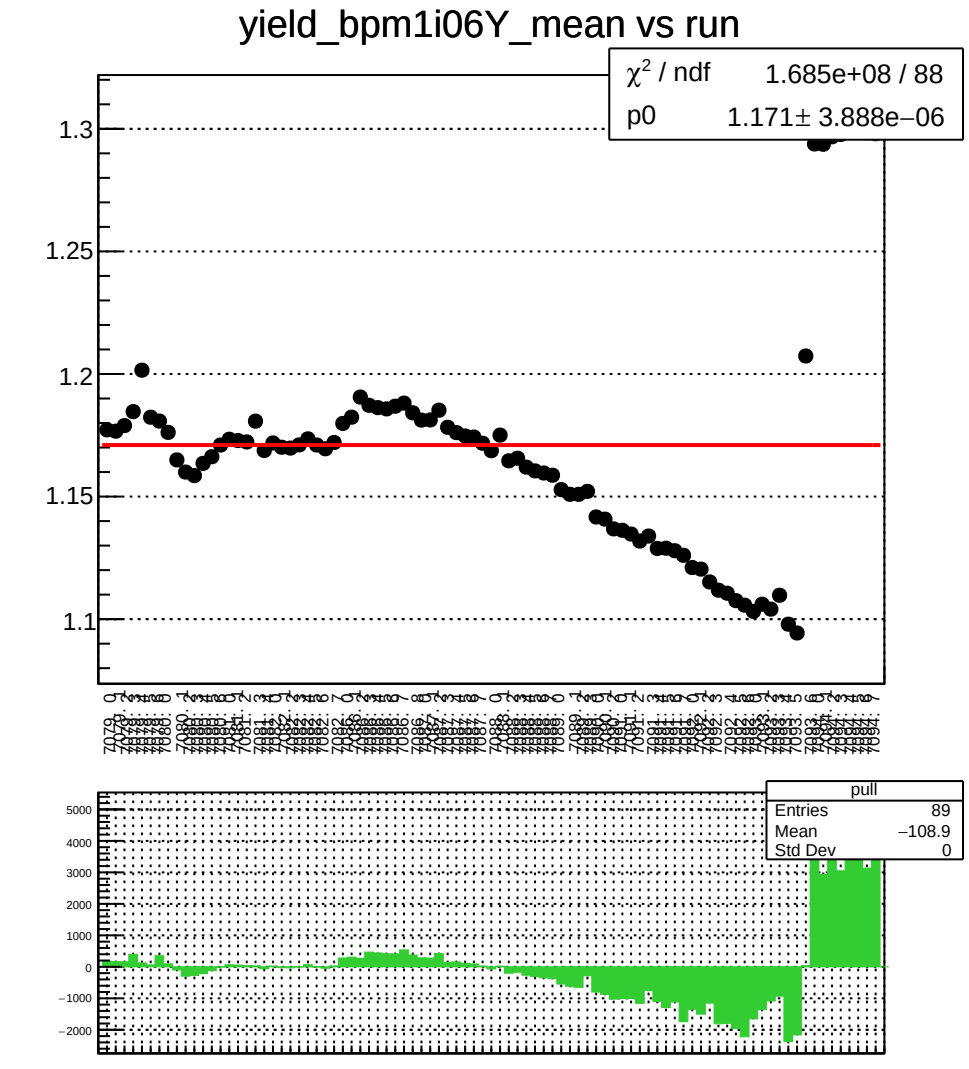

pull1D
Entries 89
Mean 5.802
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

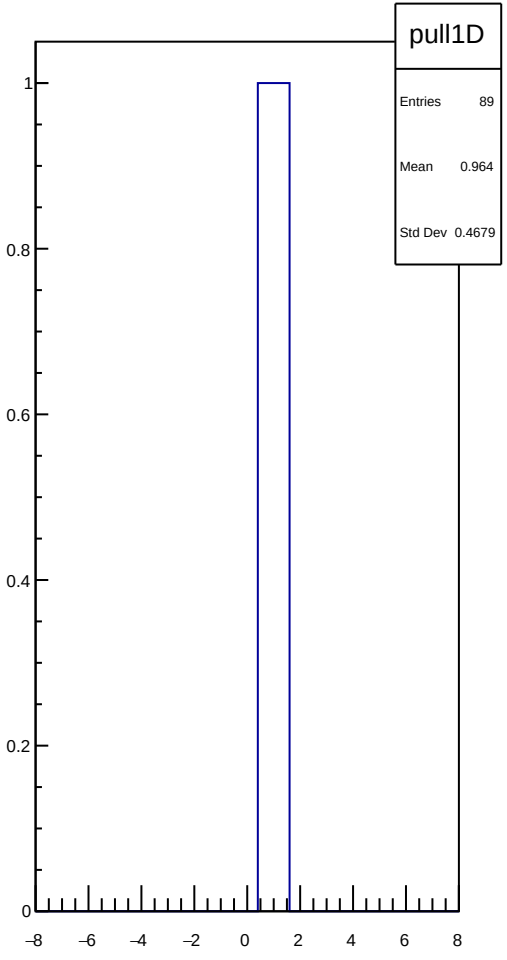

yield_bpm1i04Y_rms vs run
χ² / ndf 5.079e+04 / 88
p0 0.003663 ± 2.864e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

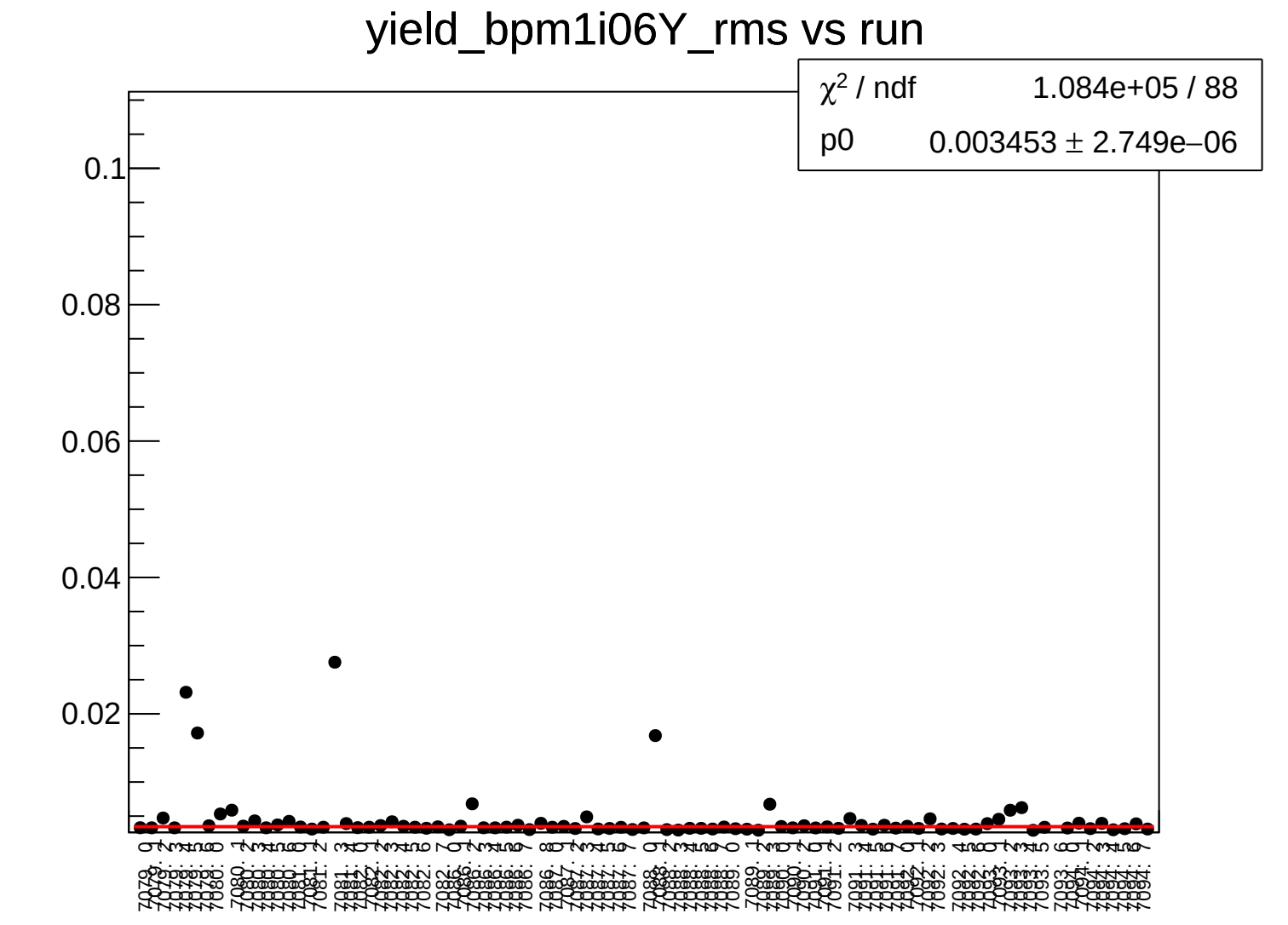

yield_bpm1i06X_mean vs run
χ² / ndf 7.585e+06 / 88
p0 1.99 ± 1.025e−05
2.04
2.02
2
1.98
1.96
1.94
pull
Entries 89
Mean −1111
Std Dev 0
600
400
200
0
−200
−400
−600

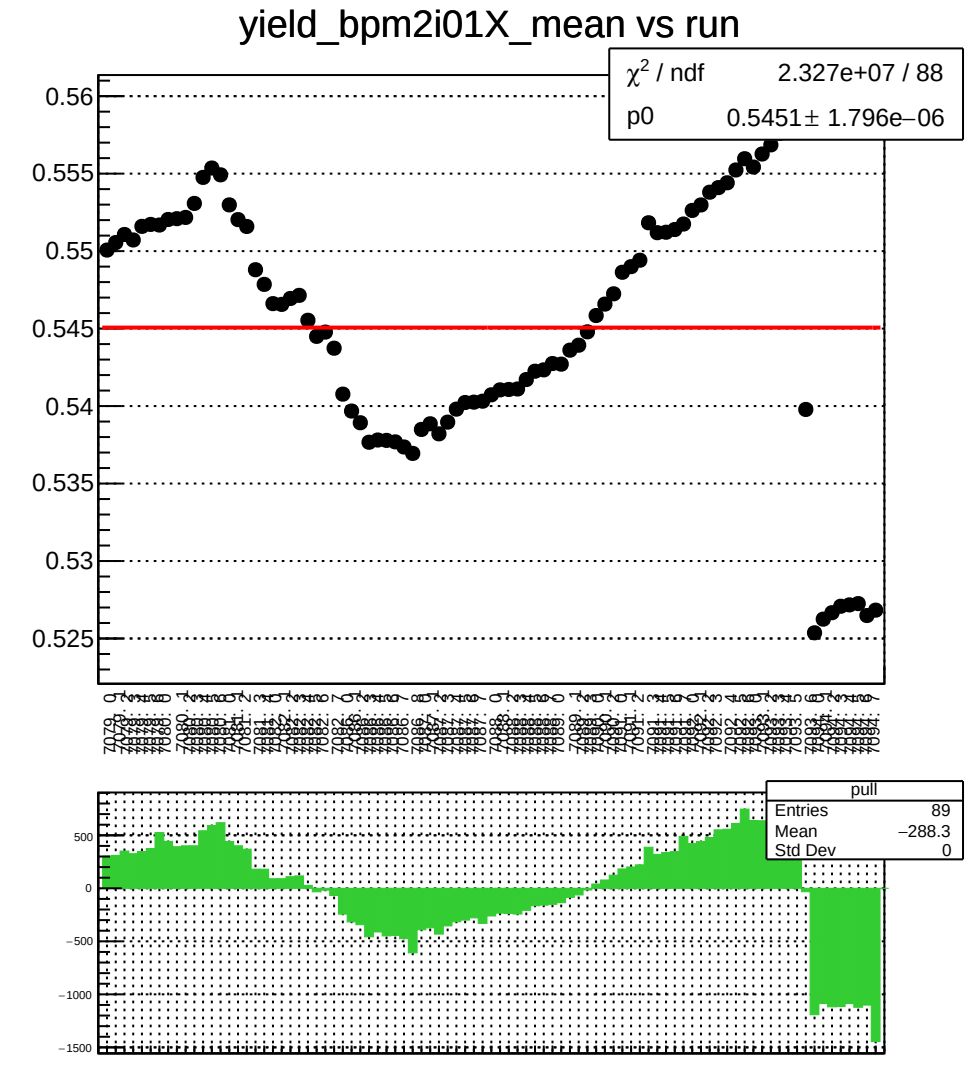

pull1D
Entries 89
Mean −5.16
Std Dev 1.89
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

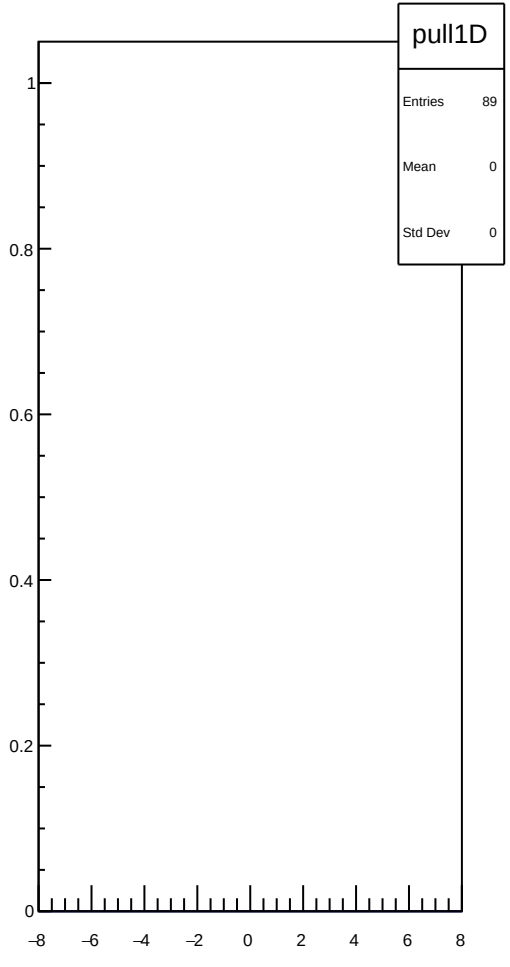

yield_bpm1i06X_rms vs run
χ² / ndf 2.864e+04 / 88
p0 0.00933 ± 7.247e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

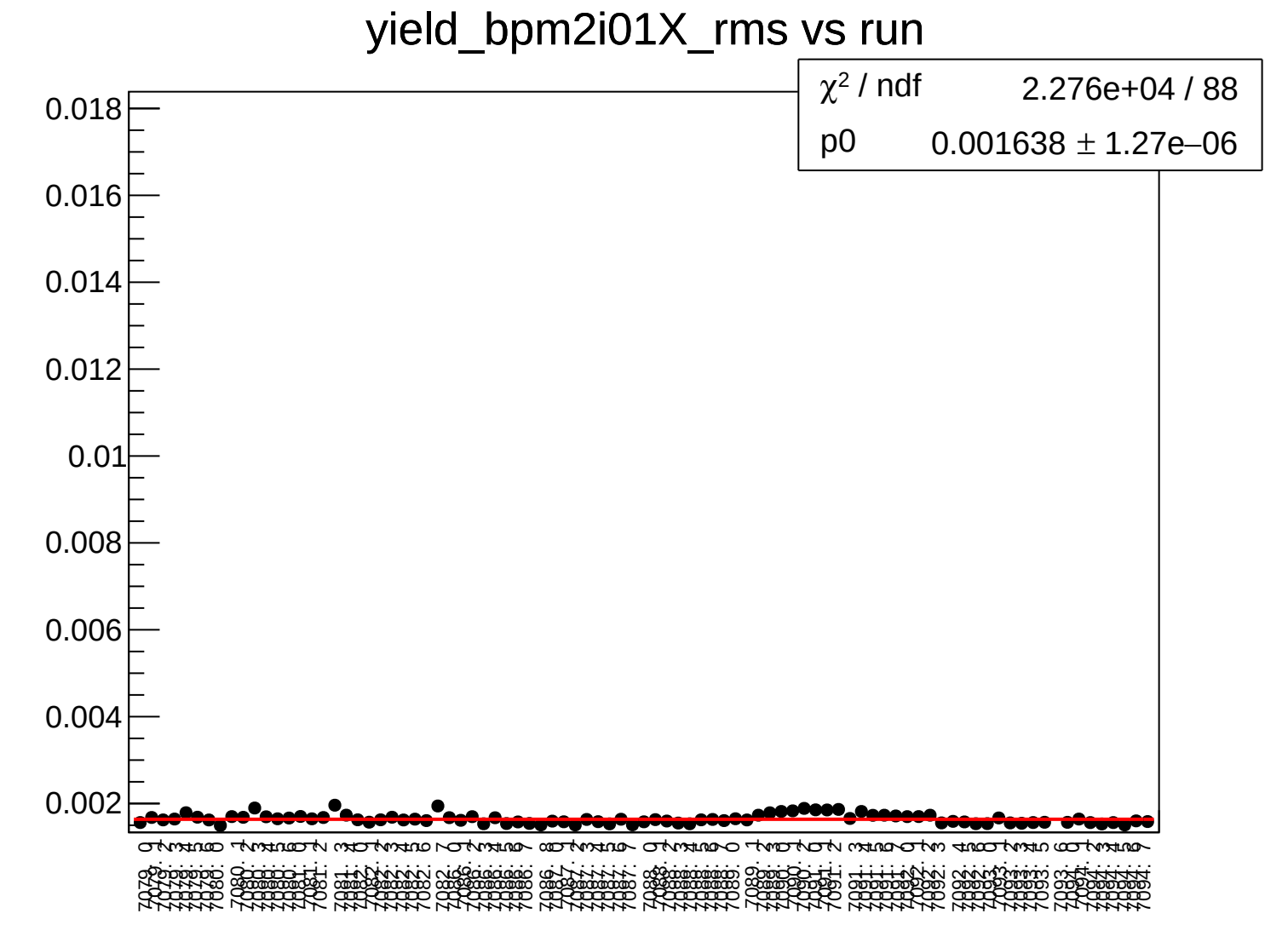

yield_bpm1i06Y_mean vs run
χ² / ndf 1.685e+08 / 88
p0 1.171± 3.888e−06
1.3
1.25
1.2
1.15
1.1
pull
Entries 89
Mean −108.9
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
−2000

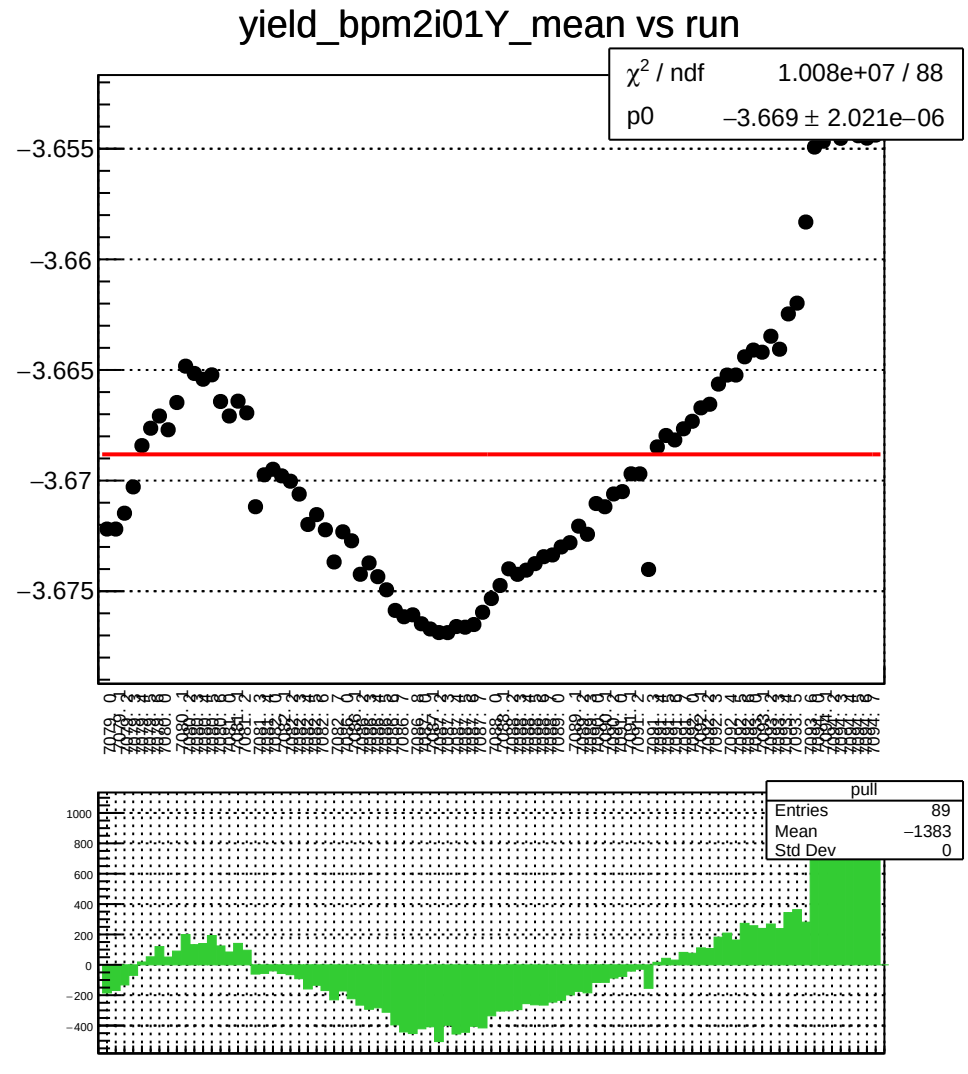

pull1D
Entries 89
Mean 0.964
Std Dev 0.4679
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

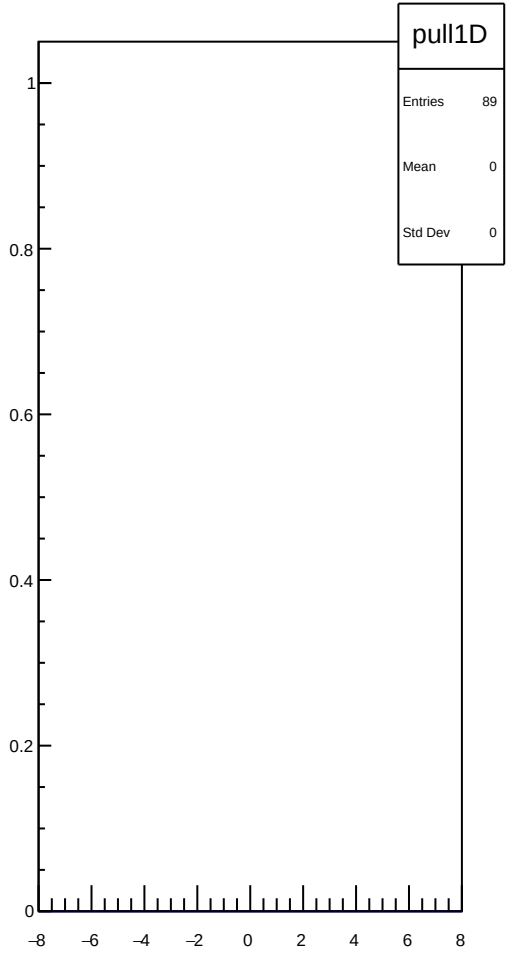

yield_bpm1i06Y_rms vs run
χ² / ndf 1.084e+05 / 88
p0 0.003453 ± 2.749e−06
0.1
0.08
0.06
0.04
0.02

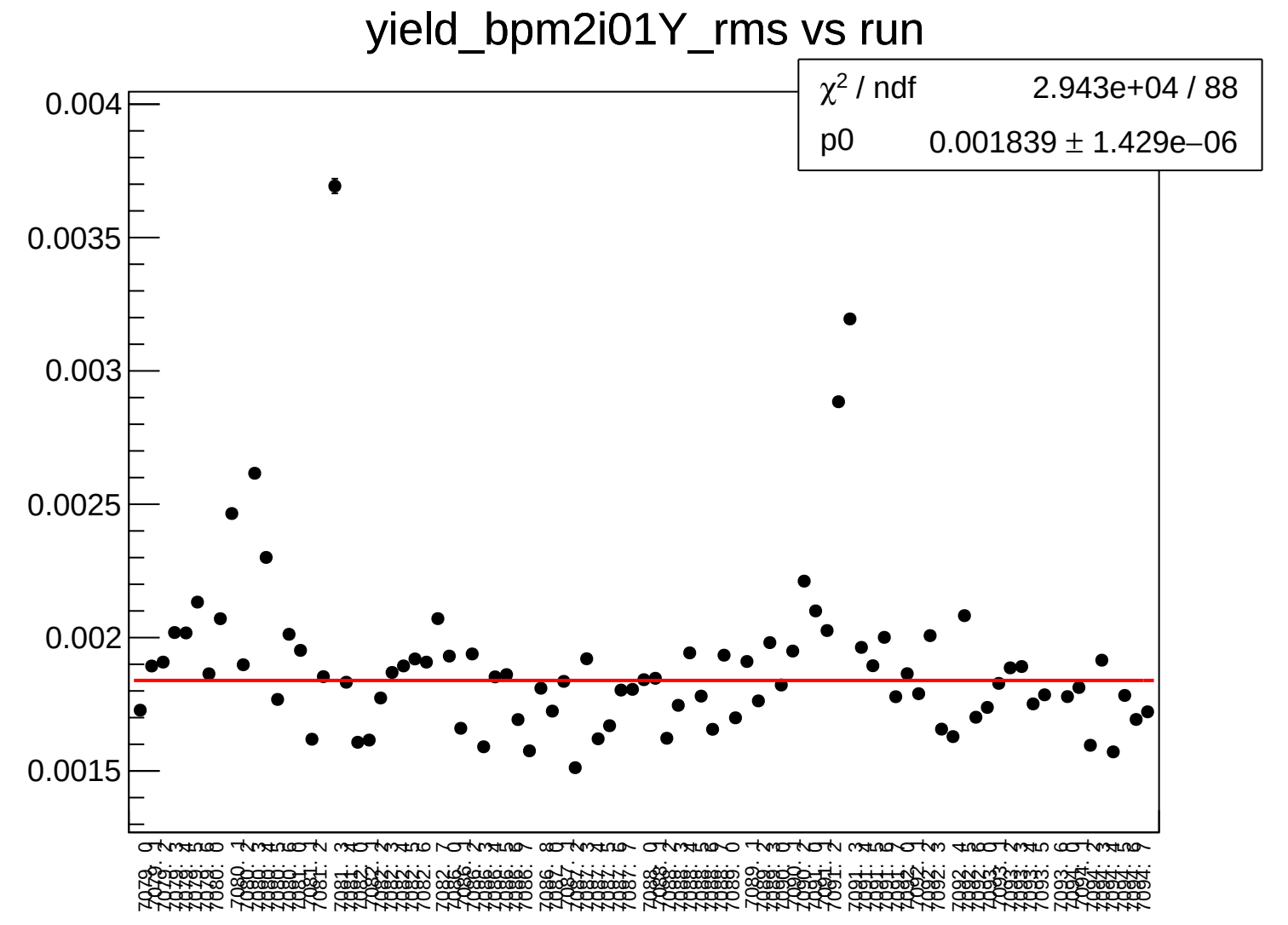

yield_bpm2i01X_mean vs run
χ² / ndf 2.327e+07 / 88
p0 0.5451 ± 1.796e−06
0.56
0.555
0.55
0.545
0.54
0.535
0.53
0.525
pull
Entries 89
Mean −288.3
Std Dev 0
500
0
−500
−1000
−1500

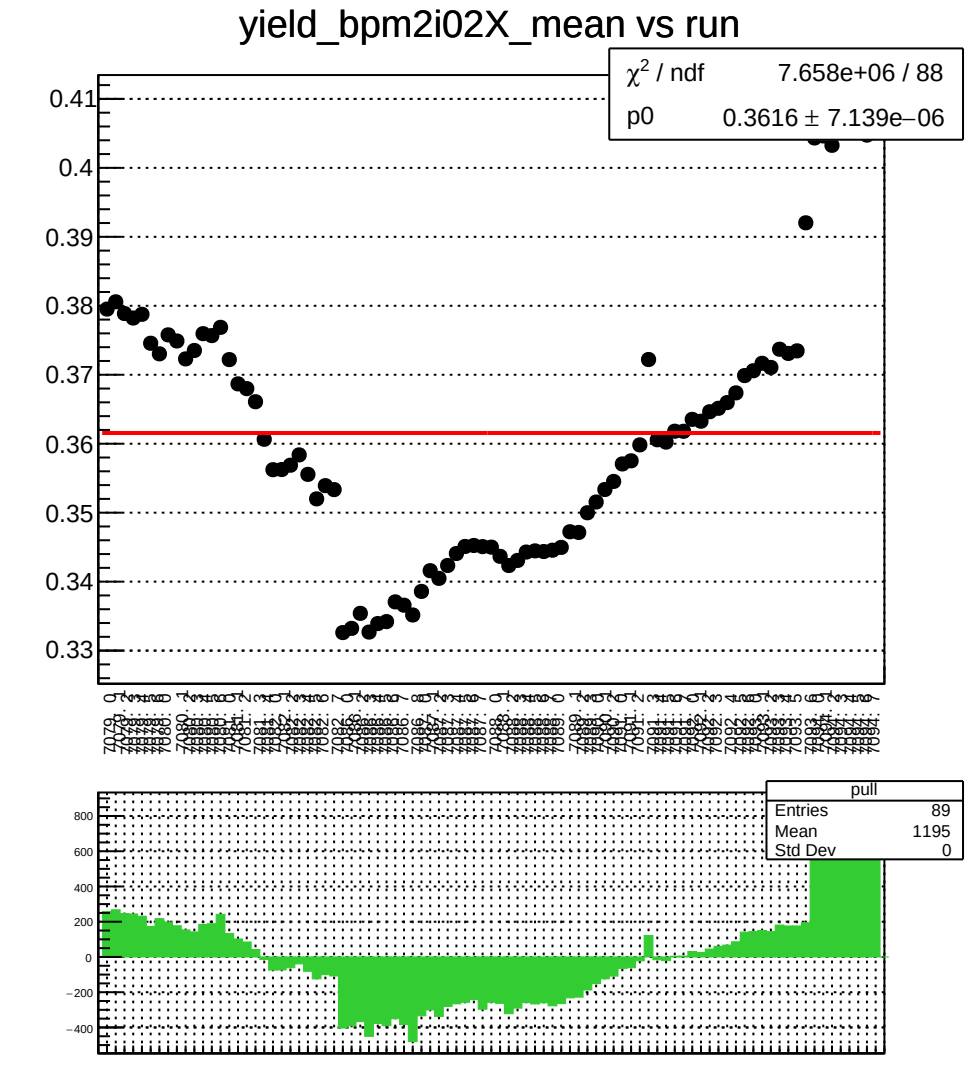

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

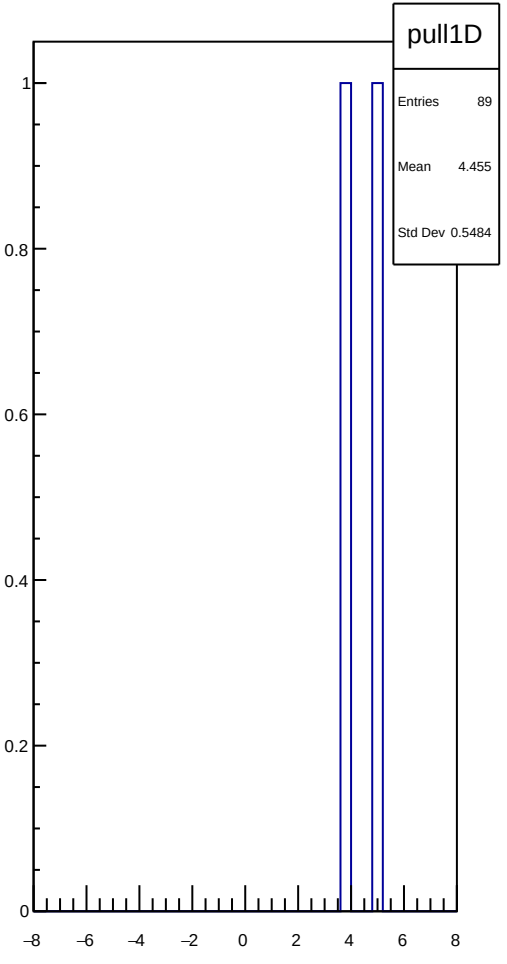

yield_bpm2i01X_rms vs run
χ² / ndf 2.276e+04 / 88
p0 0.001638 ± 1.27e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

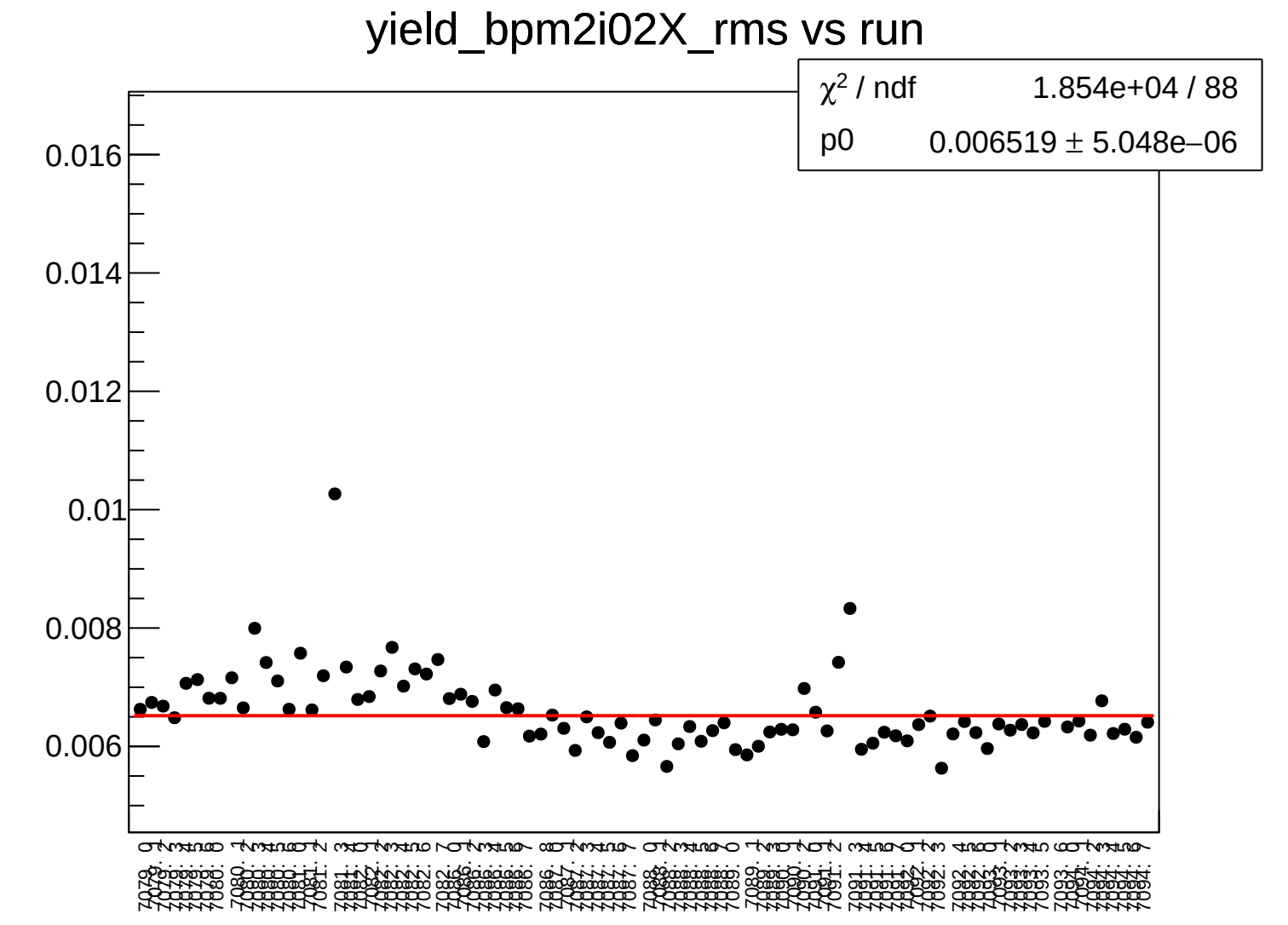

yield_bpm2i01Y_mean vs run
χ² / ndf 1.008e+07 / 88
p0 −3.669 ± 2.021e−06
−3.655
−3.66
−3.665
−3.67
−3.675
pull
Entries 89
Mean −1383
Std Dev 0
1000
800
600
400
200
0
−200
−400

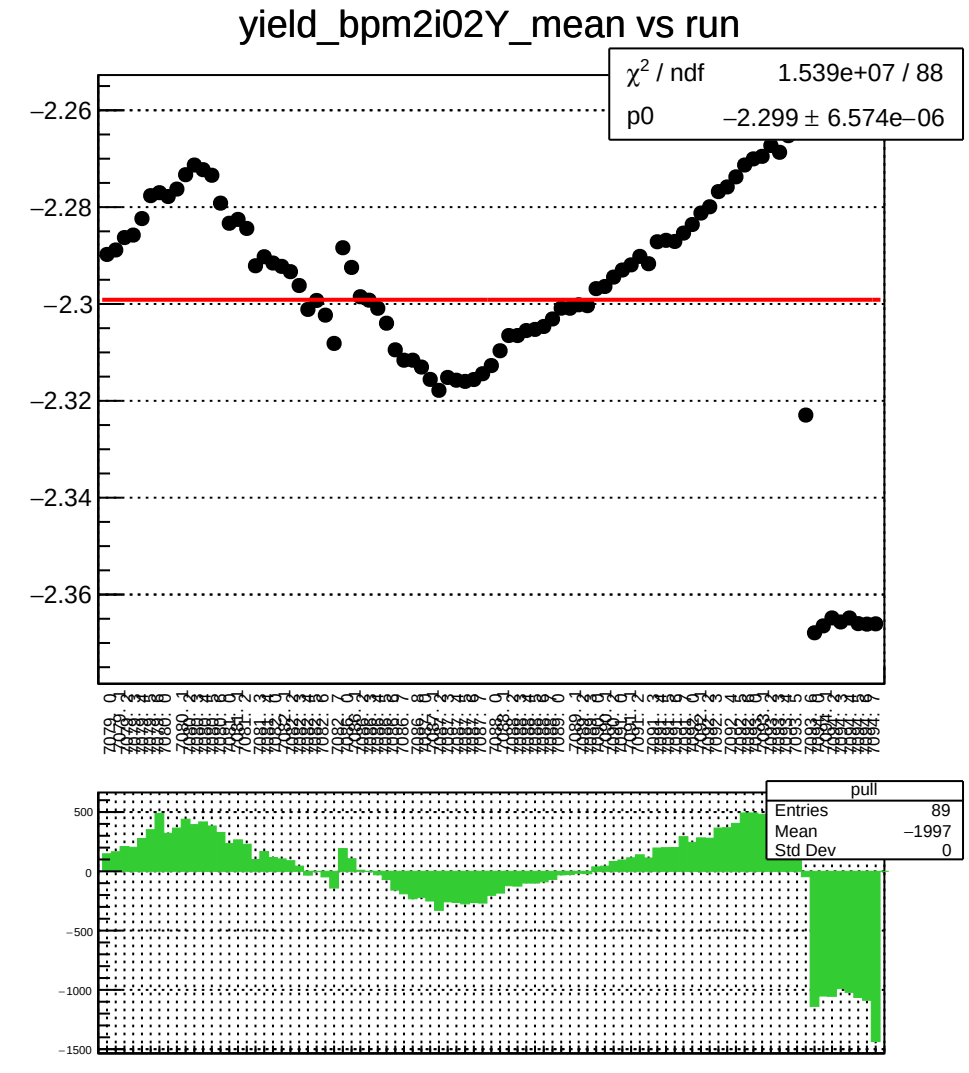

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

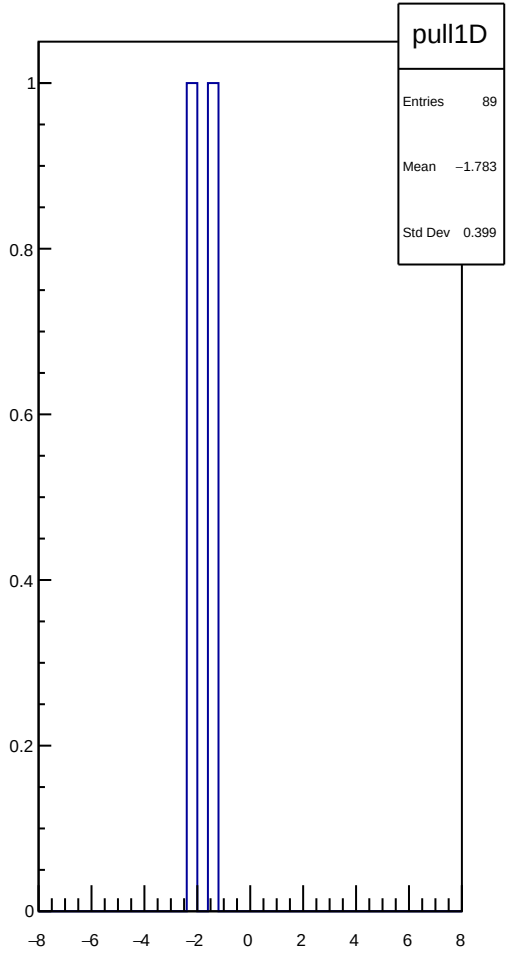

yield_bpm2i01Y_rms vs run
χ² / ndf 2.943e+04 / 88
p0 0.001839 ± 1.429e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

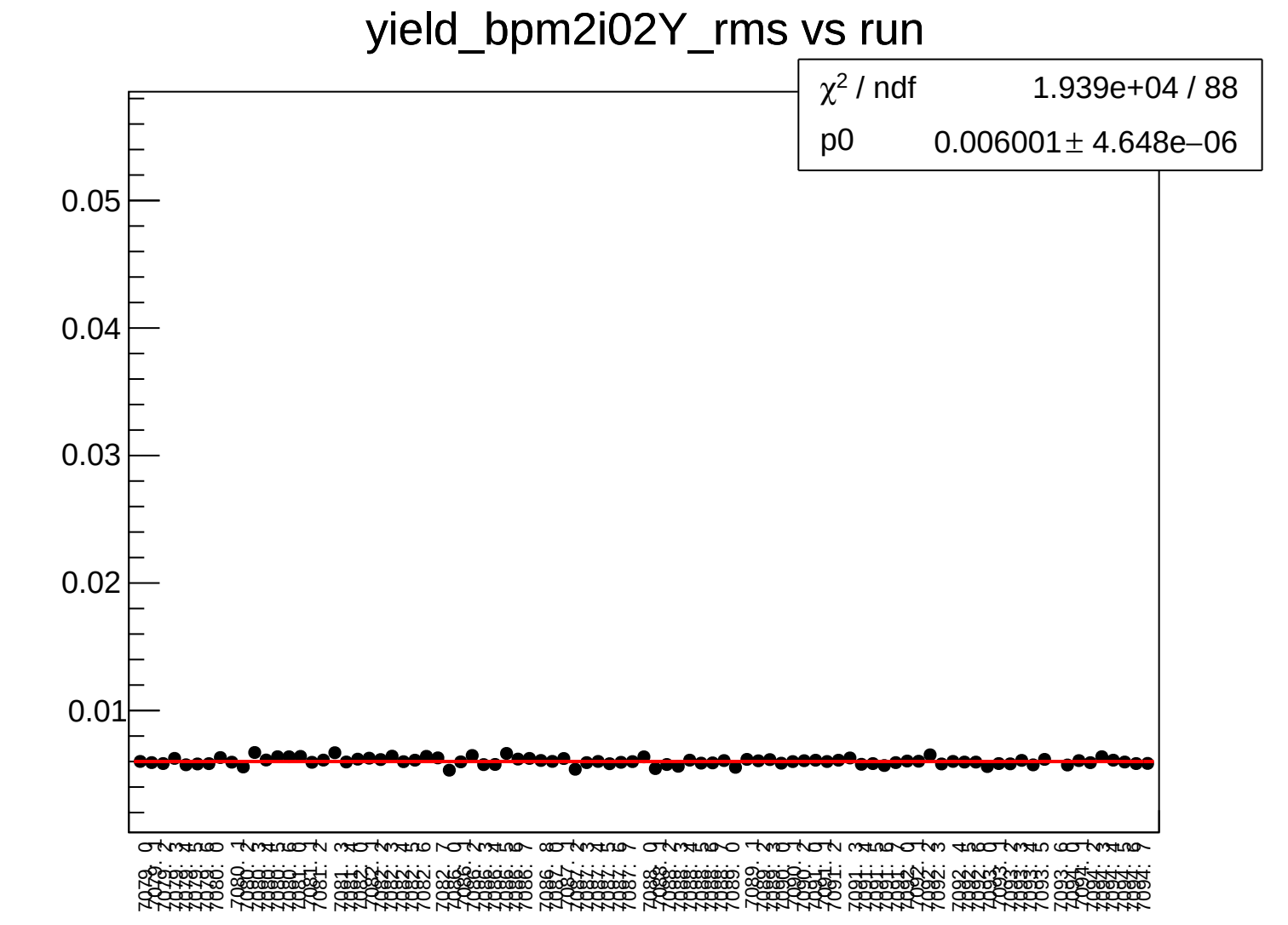

yield_bpm2i02X_mean vs run
χ² / ndf 7.658e+06 / 88
p0 0.3616 ± 7.139e−06
0.41
0.4
0.39
0.38
0.37
0.36
0.35
0.34
0.33
pull
Entries 89
Mean 1195
Std Dev 0
800
600
400
200
0
−200
−400

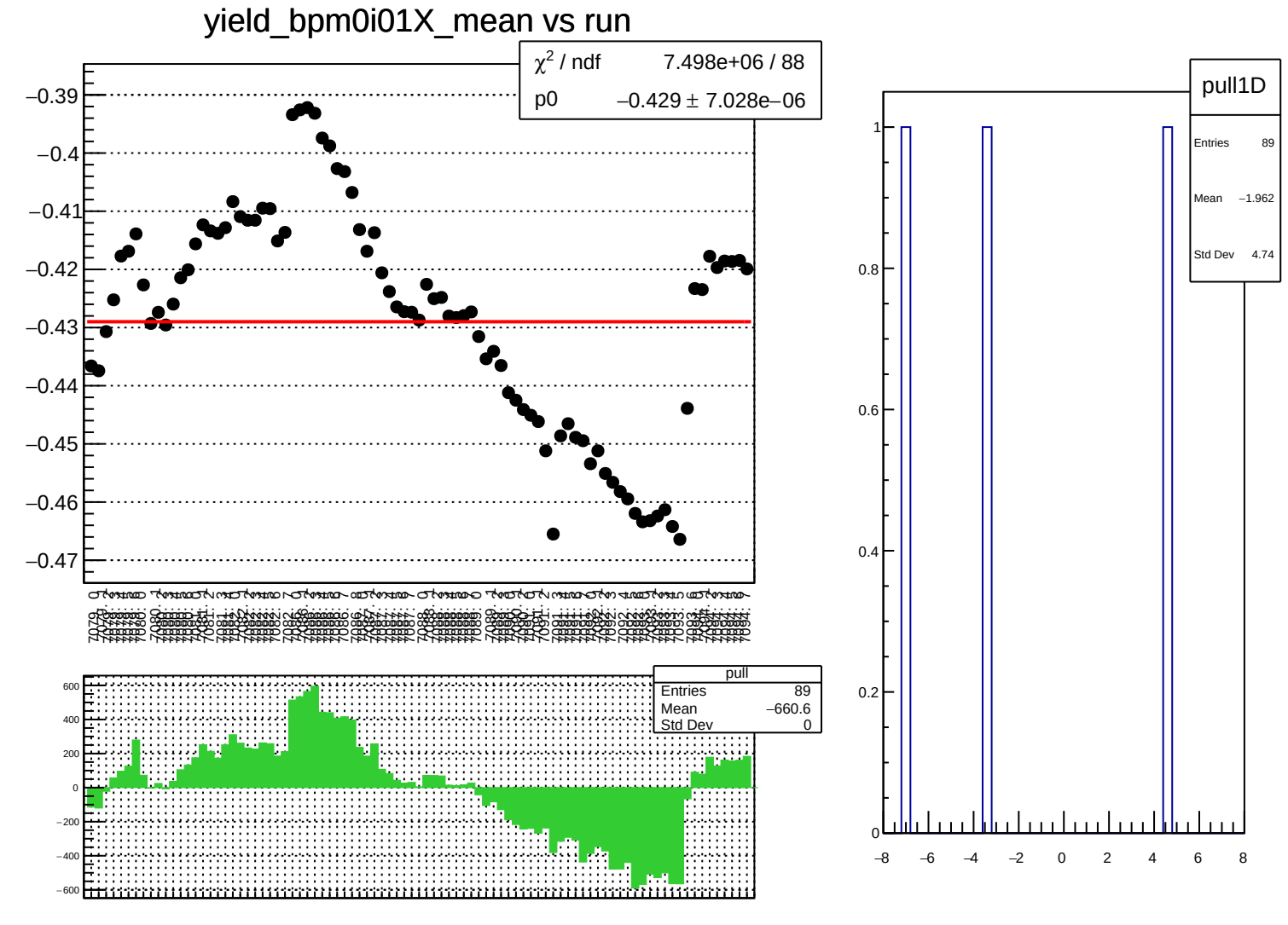

pull1D
Entries 89
Mean 4.455
Std Dev 0.5484
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

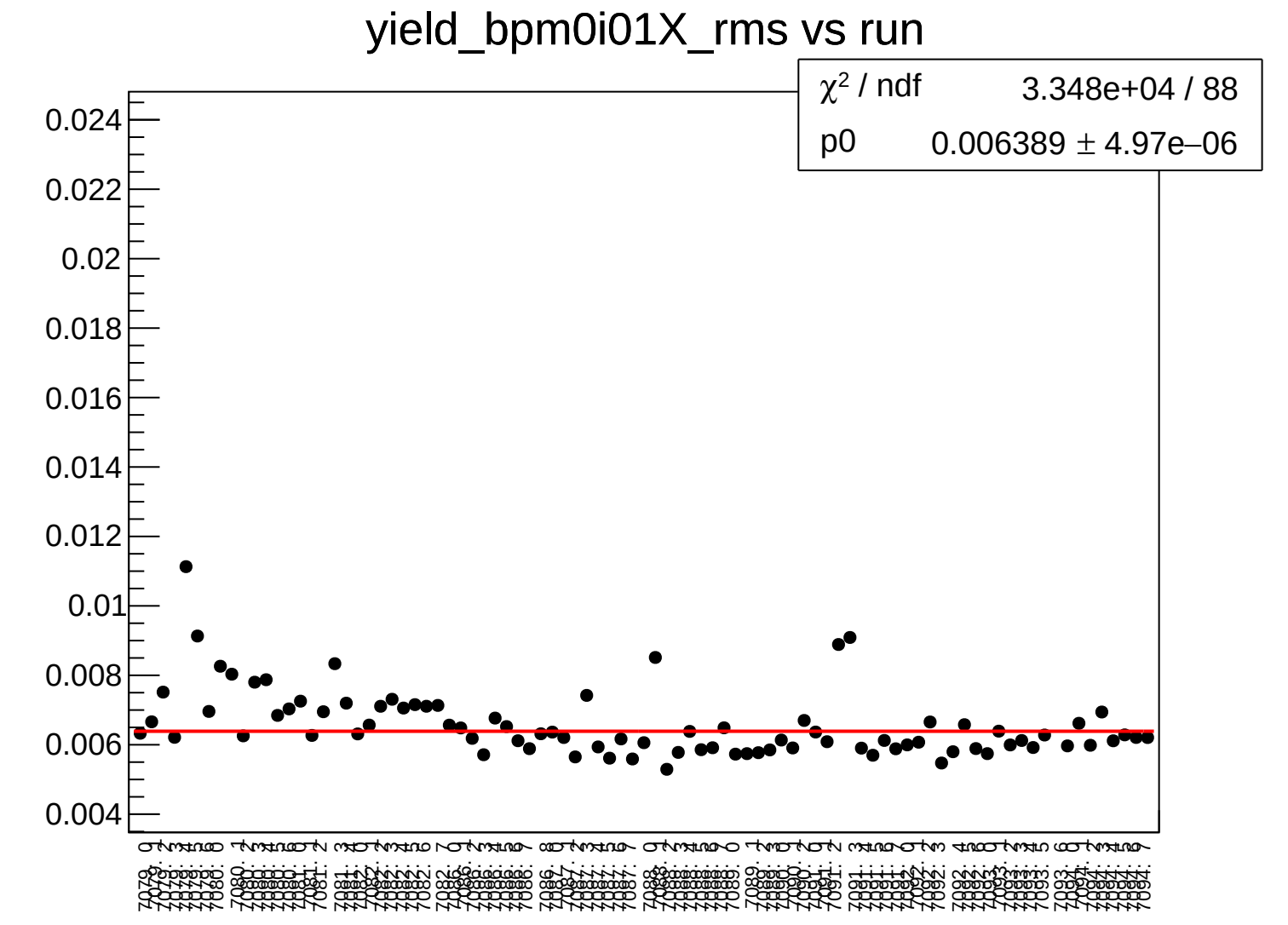

yield_bpm2i02X_rms vs run
χ² / ndf 1.854e+04 / 88
p0 0.006519 ± 5.048e−06
0.016
0.014
0.012
0.01
0.008
0.006

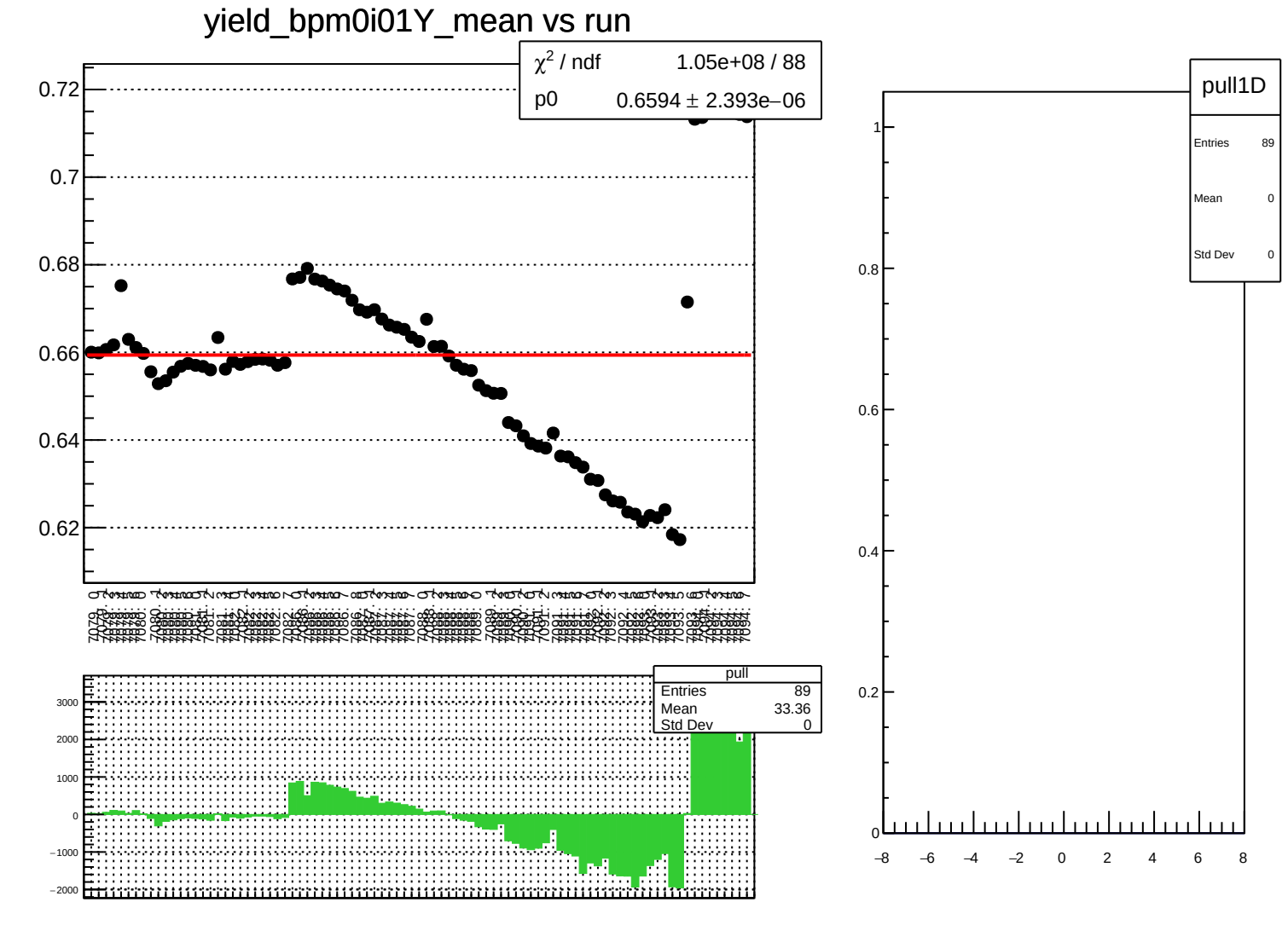

yield_bpm2i02Y_mean vs run
χ² / ndf 1.539e+07 / 88
p0 −2.299 ± 6.574e−06
−2.26
−2.28
−2.3
−2.32
−2.34
−2.36
pull
Entries 89
Mean −1997
Std Dev 0
500
0
−500
−1000
−1500

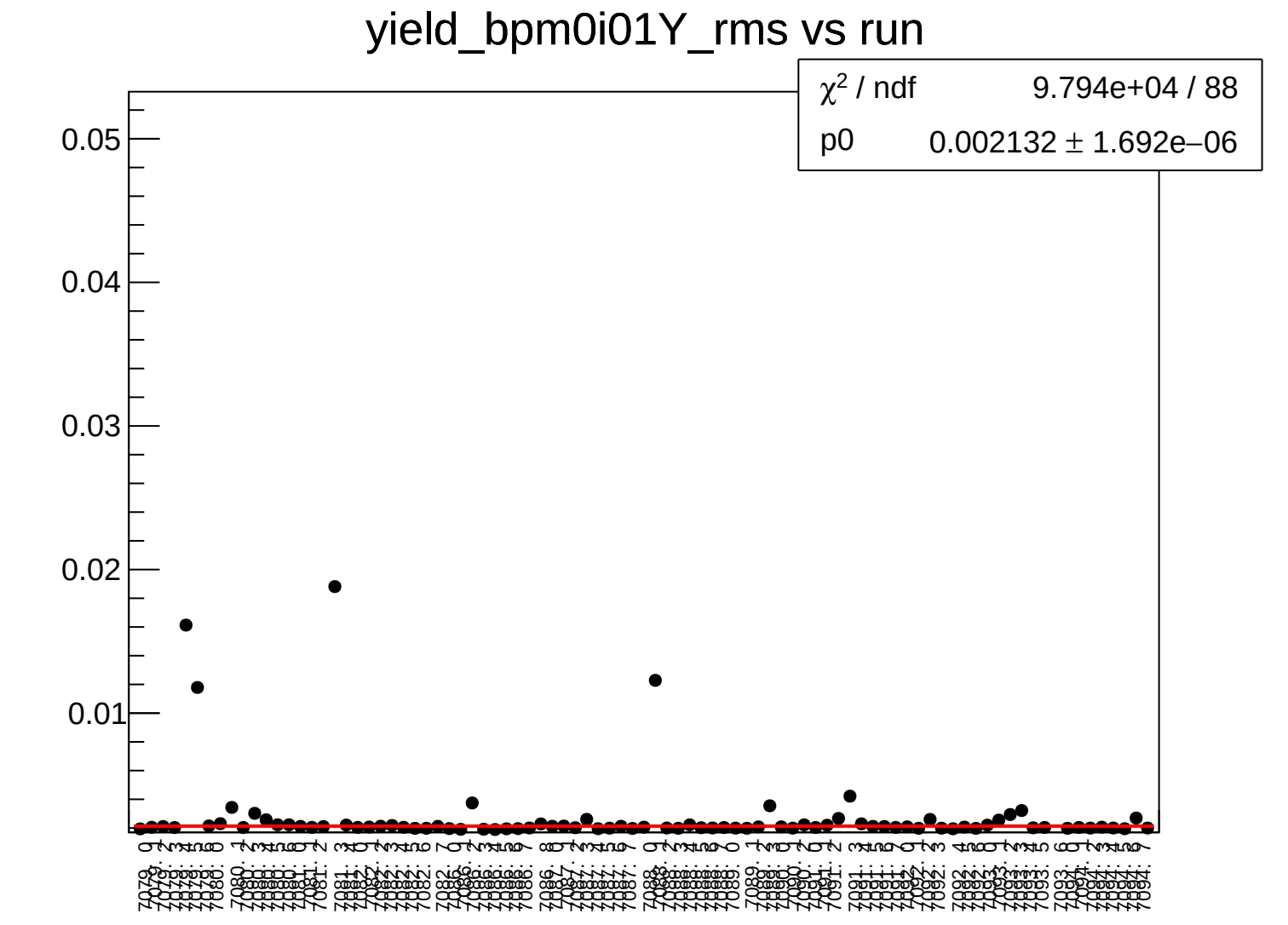

pull1D
Entries 89
Mean −1.783
Std Dev 0.399
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

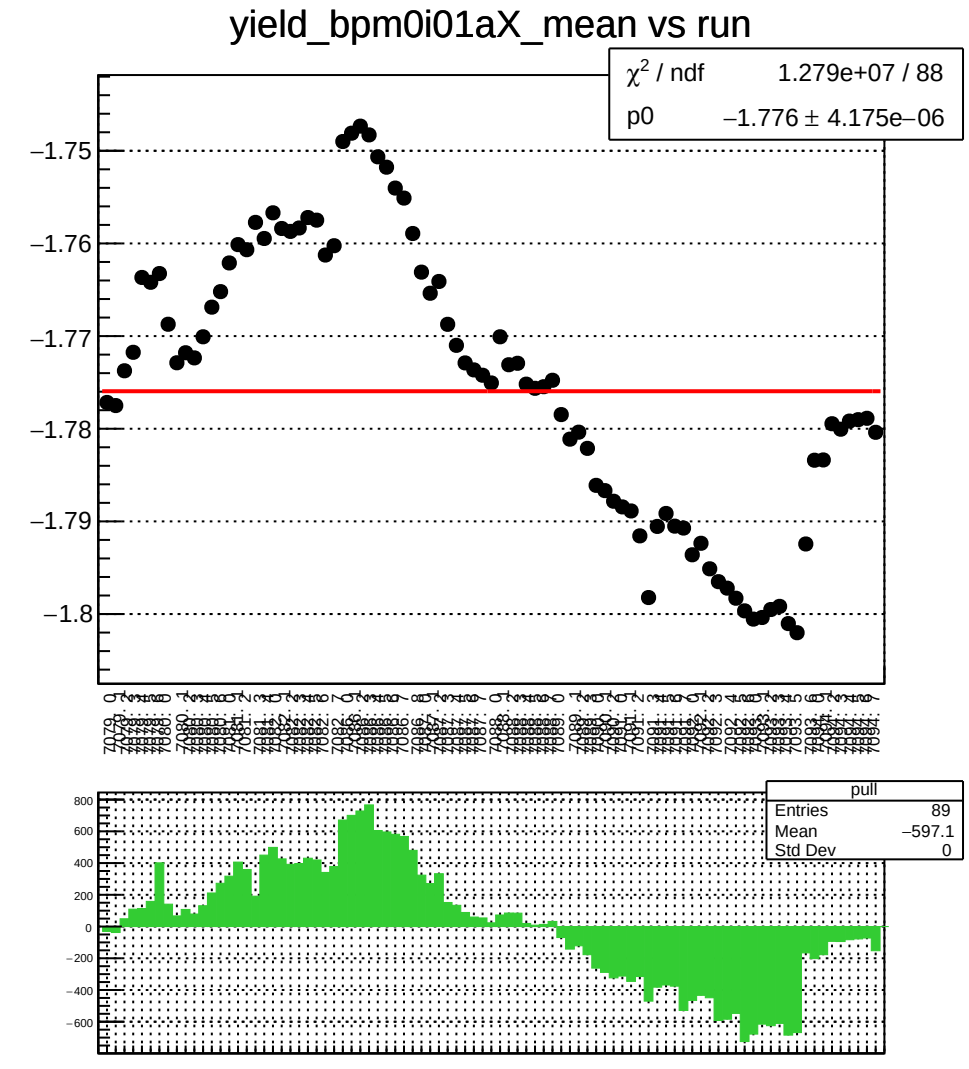

yield_bpm2i02Y_rms vs run
χ² / ndf 1.939e+04 / 88
p0 0.006001 ± 4.648e−06
0.05
0.04
0.03
0.02
0.01

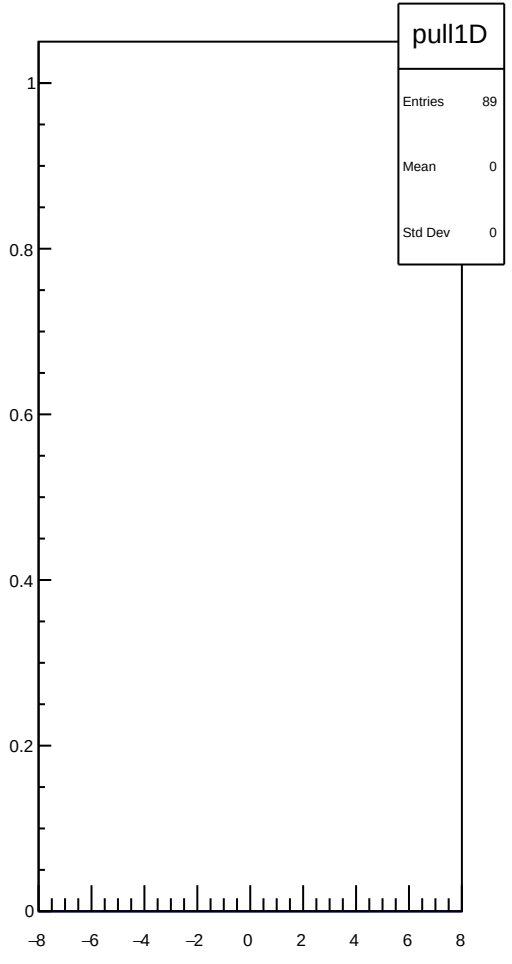

yield_bpm0i01X_mean vs run
χ² / ndf 7.498e+06 / 88
p0 −0.429 ± 7.028e−06
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
pull
Entries 89
Mean −660.6
Std Dev 0
600
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean −1.962
Std Dev 4.74
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

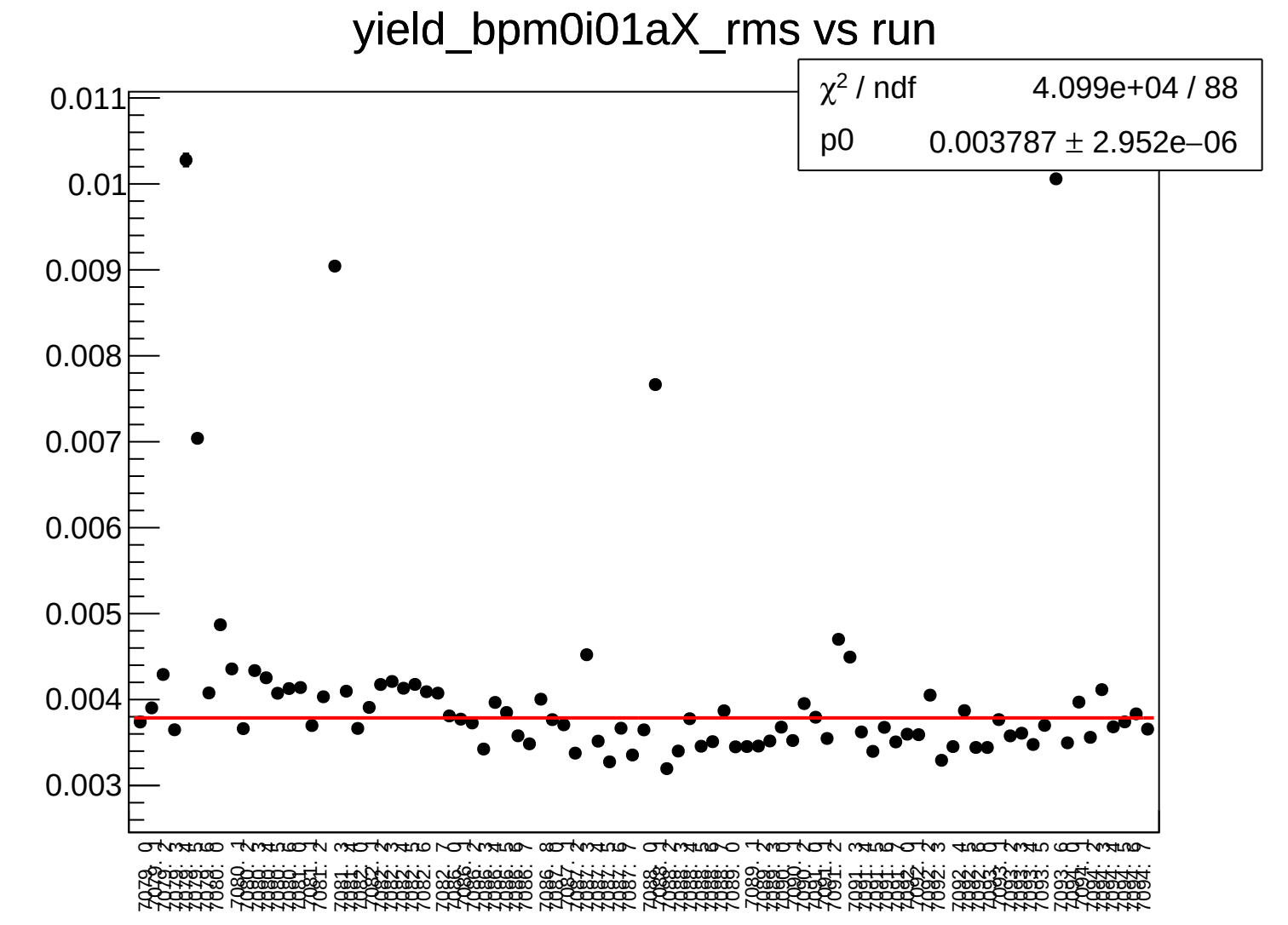

yield_bpm0i01X_rms vs run
χ² / ndf 3.348e+04 / 88
p0 0.006389 ± 4.97e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

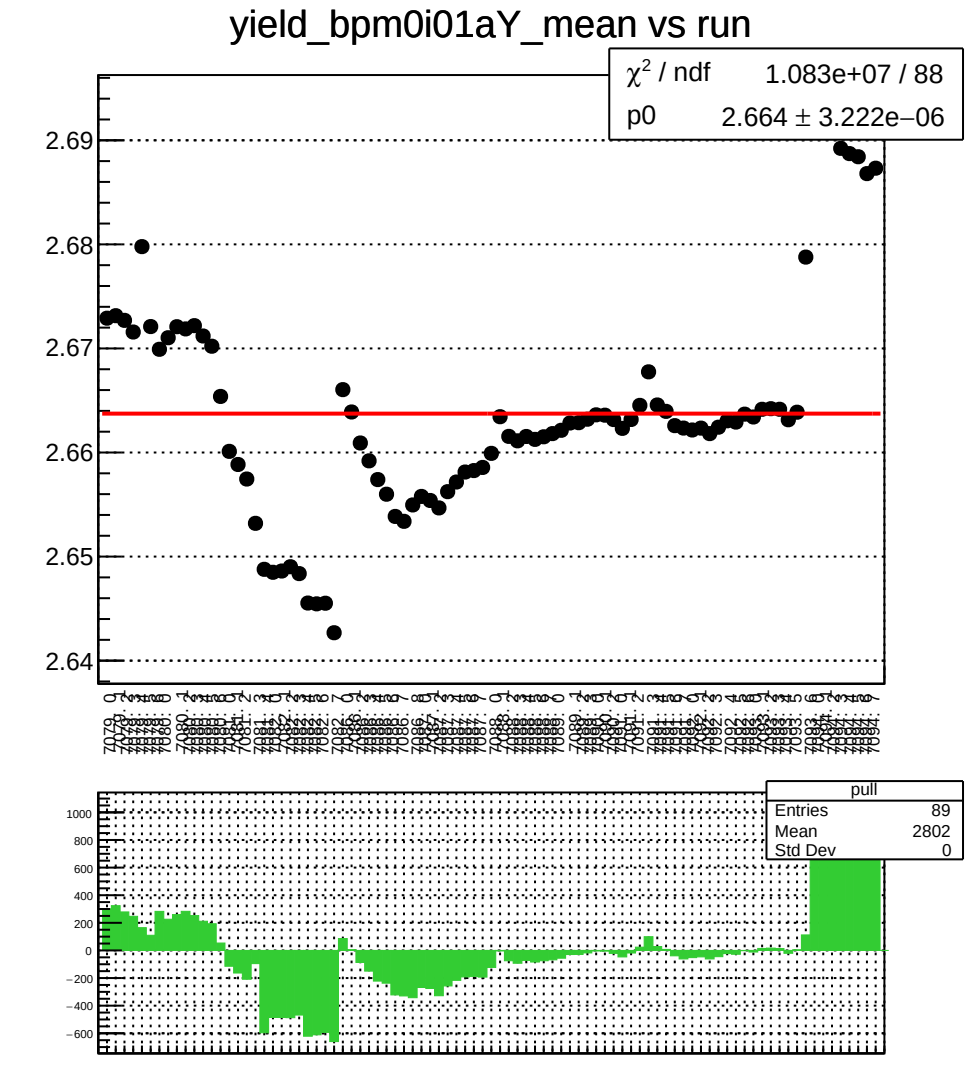

yield_bpm0i01Y_mean vs run
χ² / ndf 1.05e+08 / 88
p0 0.6594 ± 2.393e−06
0.72
0.7
0.68
0.66
0.64
0.62
pull
Entries 89
Mean 33.36
Std Dev 0
3000
2000
1000
0
−1000
−2000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

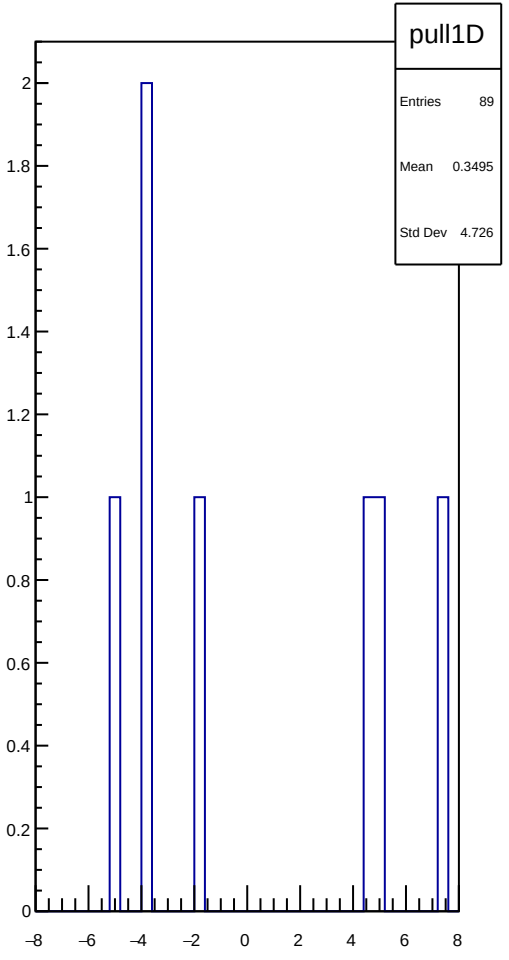

yield_bpm0i01Y_rms vs run
χ² / ndf 9.794e+04 / 88
p0 0.002132 ± 1.692e−06
0.05
0.04
0.03
0.02
0.01

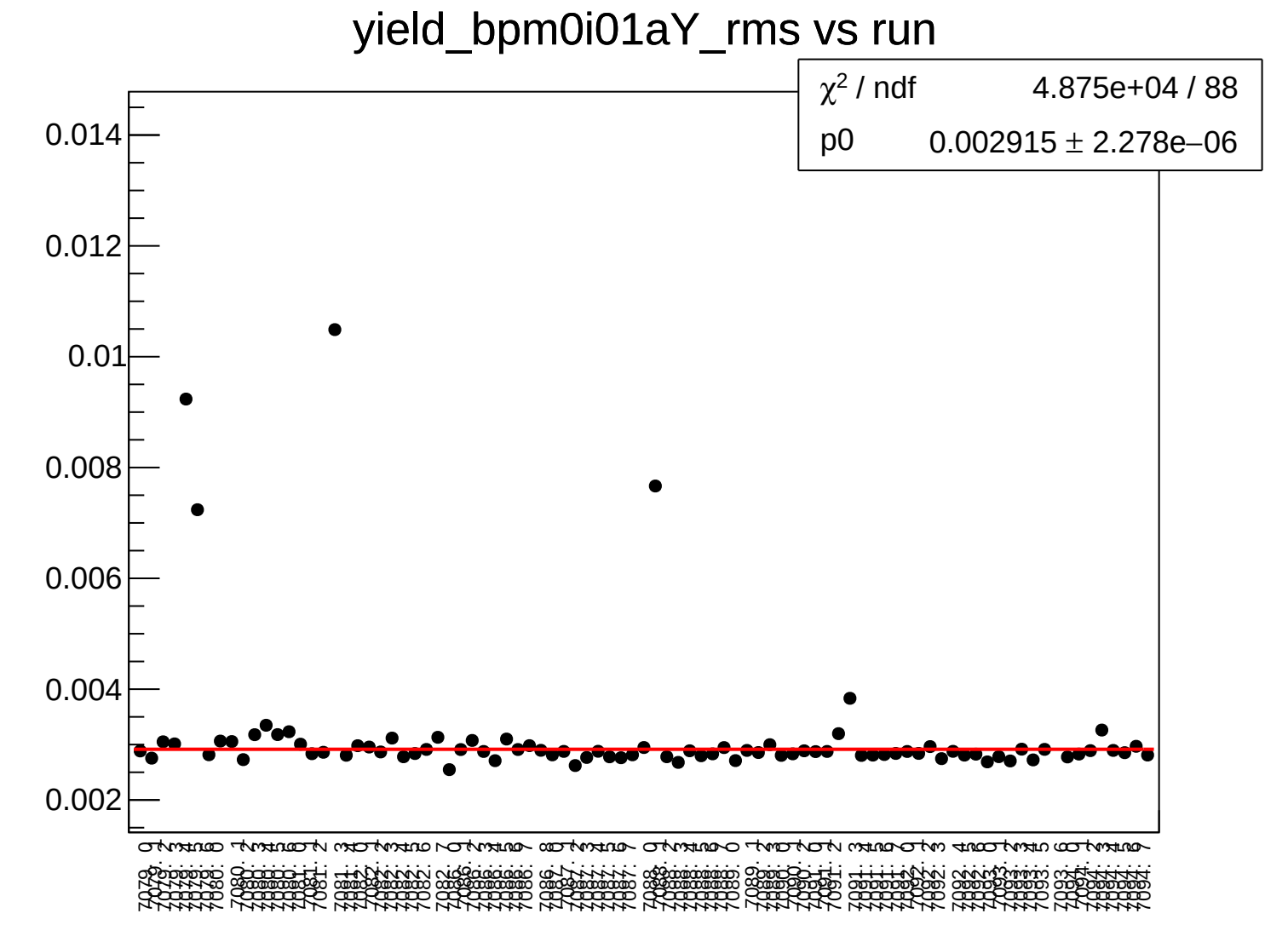

yield_bpm0i01aX_mean vs run
χ² / ndf 1.279e+07 / 88
p0 −1.776 ± 4.175e−06
−1.75
−1.76
−1.77
−1.78
−1.79
−1.8
pull
Entries 89
Mean −597.1
Std Dev 0
800
600
400
200
0
−200
−400
−600

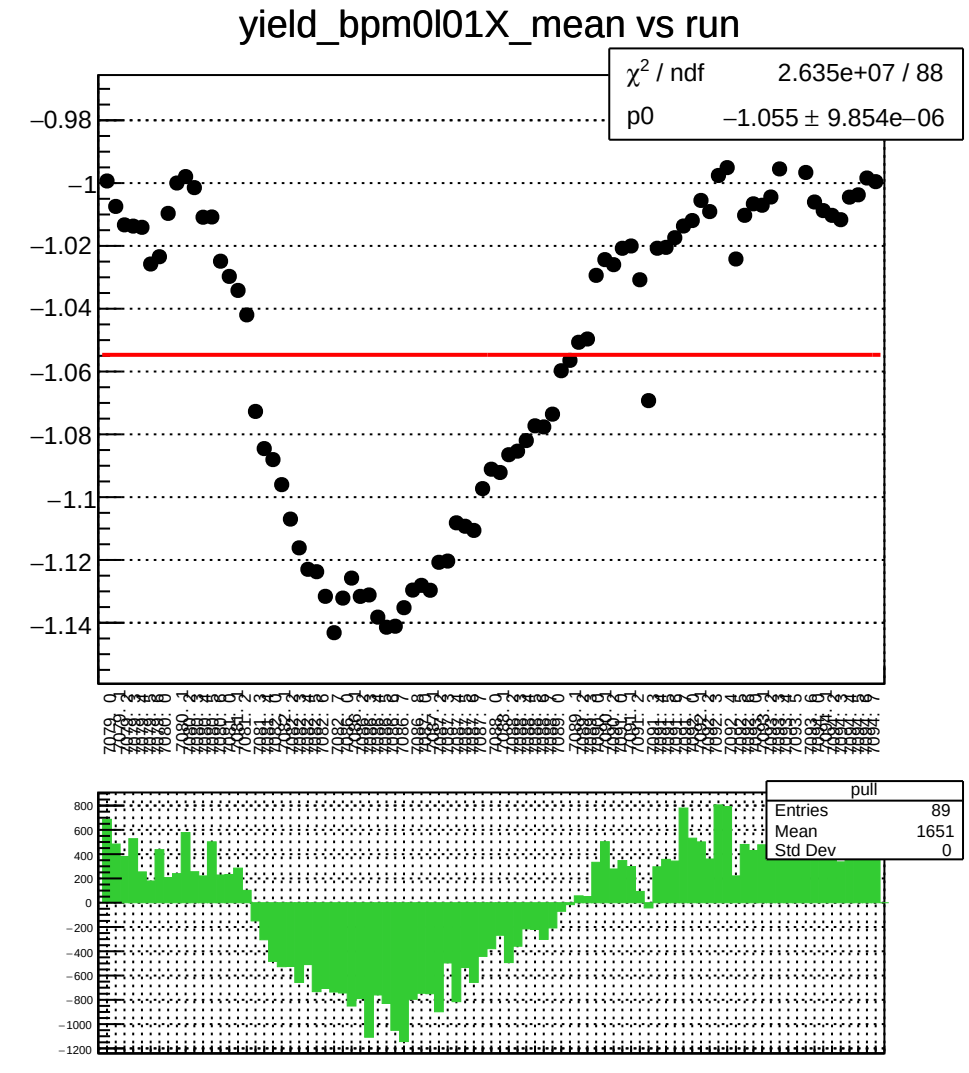

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

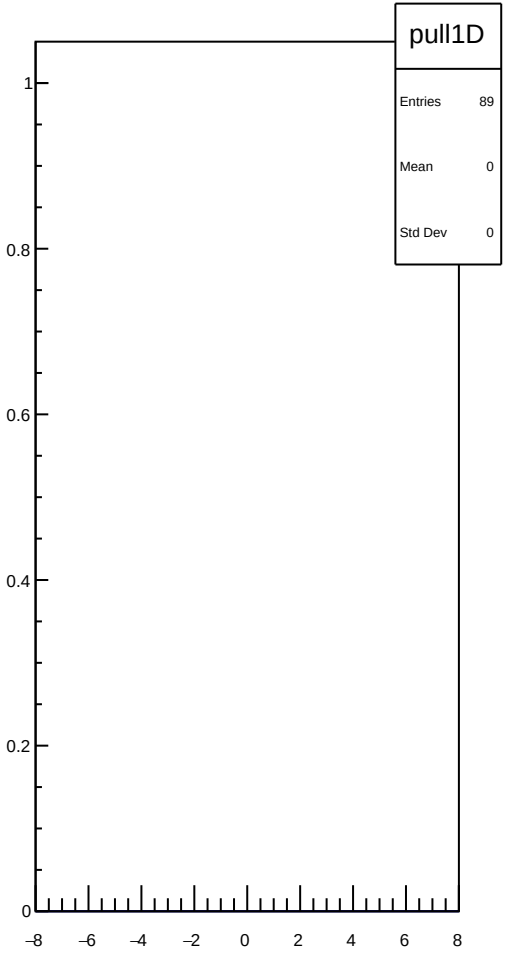

yield_bpm0i01aX_rms vs run
χ^2 / ndf 4.099e+04 / 88
p0 0.003787 ± 2.952e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

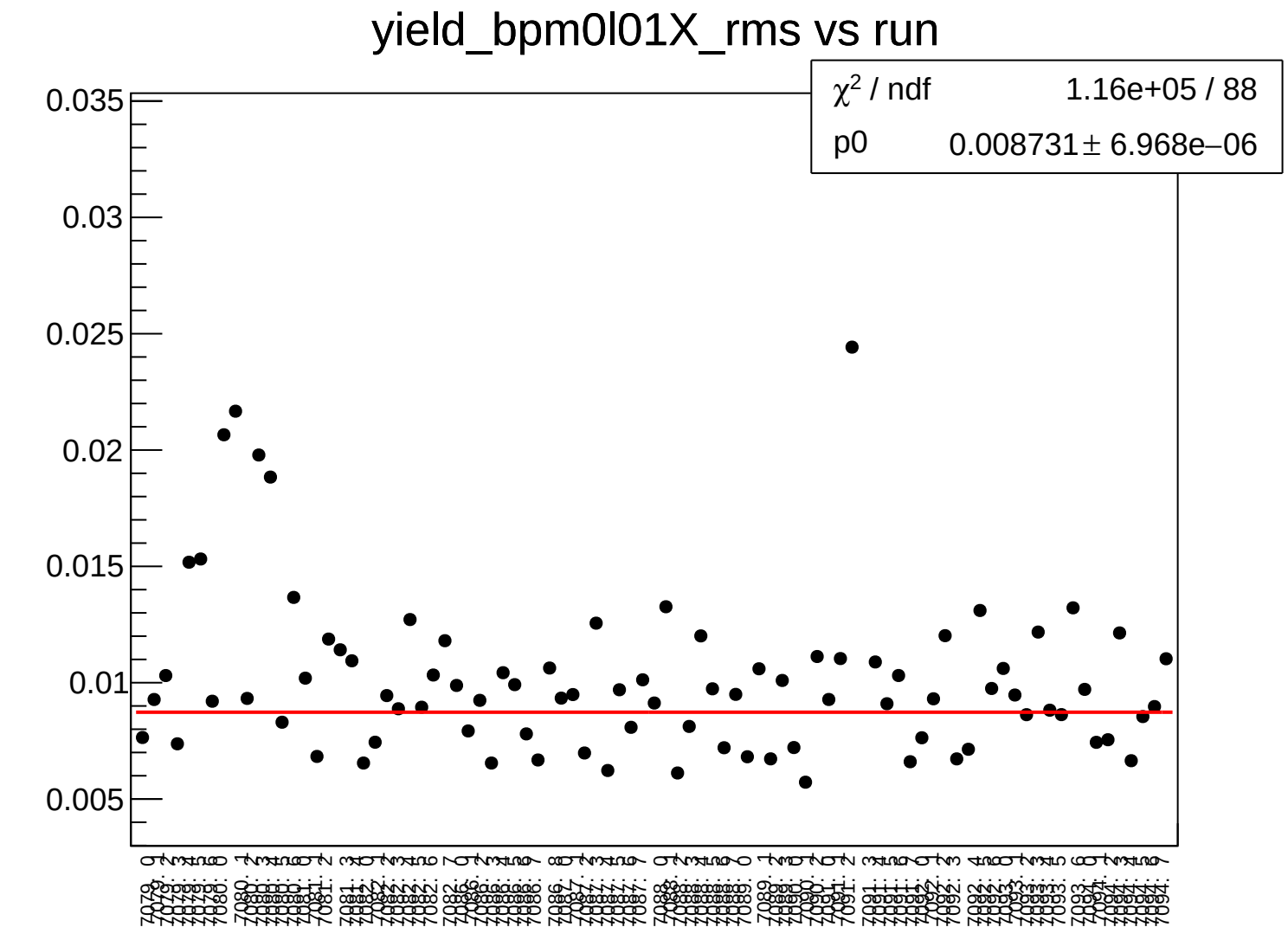

yield_bpm0i01aY_mean vs run
χ² / ndf 1.083e+07 / 88
p0 2.664 ± 3.222e−06
2.69
2.68
2.67
2.66
2.65
2.64
pull
Entries 89
Mean 2802
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

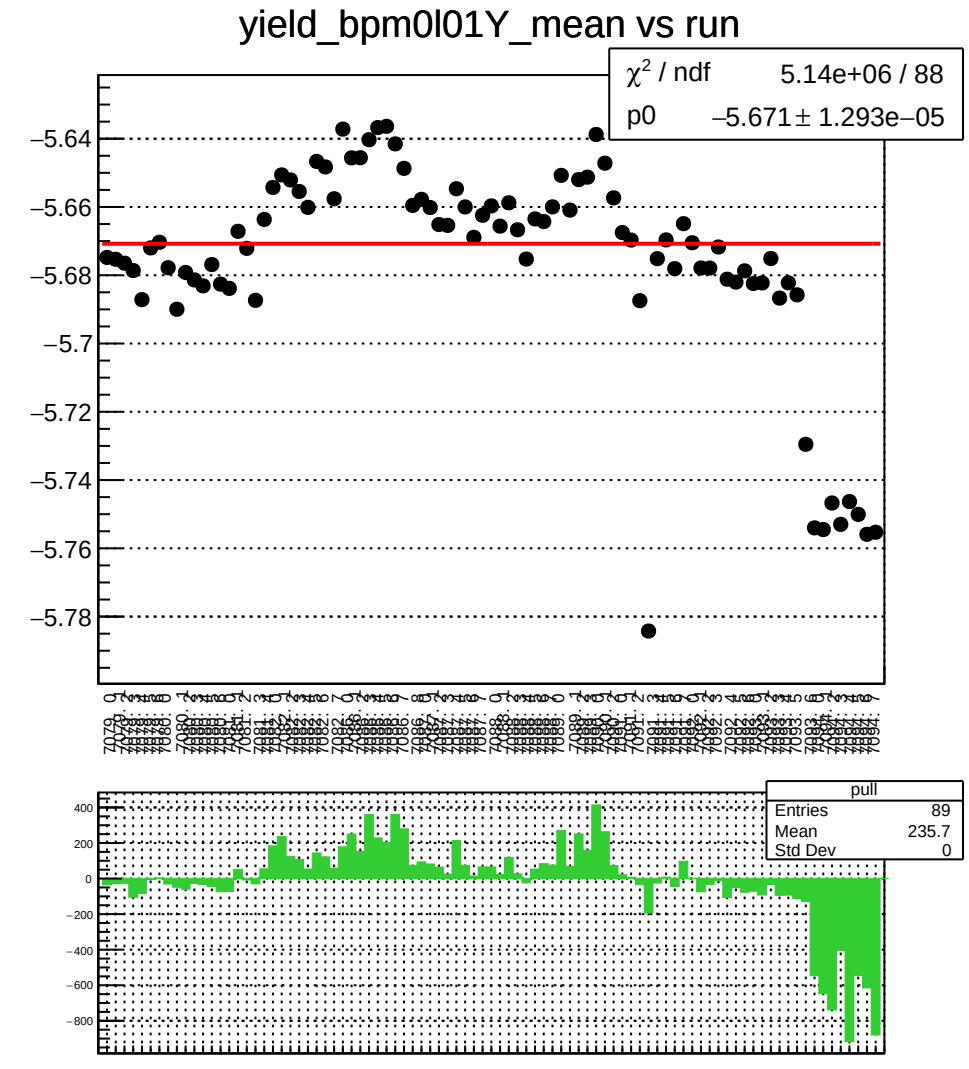

pull1D
Entries 89
Mean 0.3495
Std Dev 4.726
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

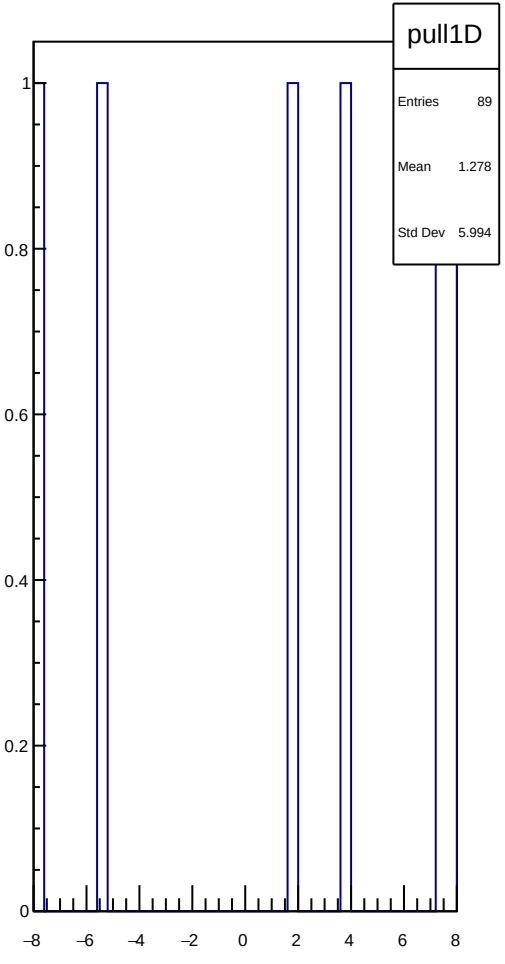

yield_bpm0i01aY_rms vs run
χ^2 / ndf 4.875e+04 / 88
p0 0.002915 ± 2.278e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

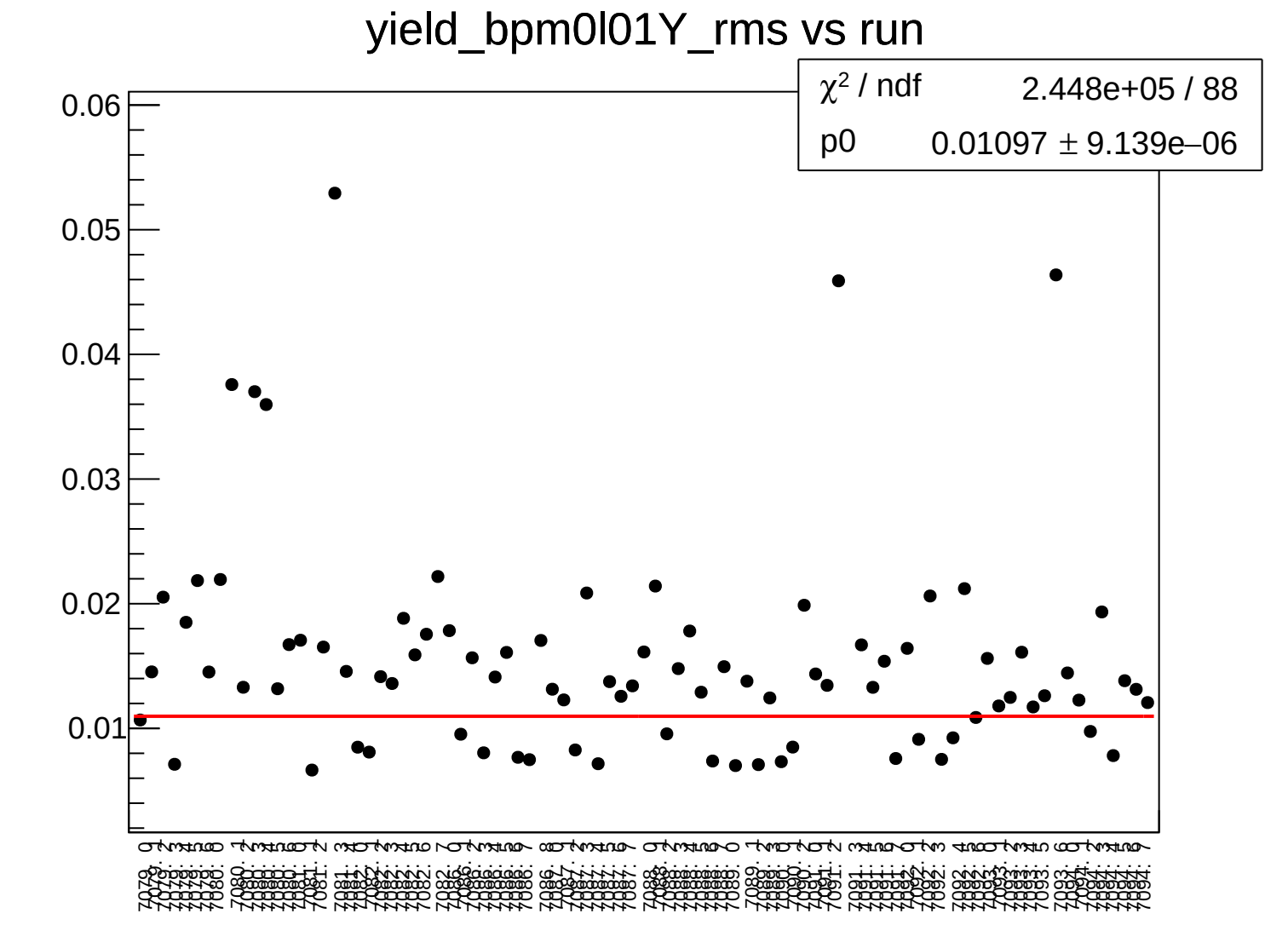

yield_bpm0l01X_mean vs run
χ² / ndf 2.635e+07 / 88
p0 −1.055 ± 9.854e−06
−0.98
−1
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
pull
Entries 89
Mean 1651
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

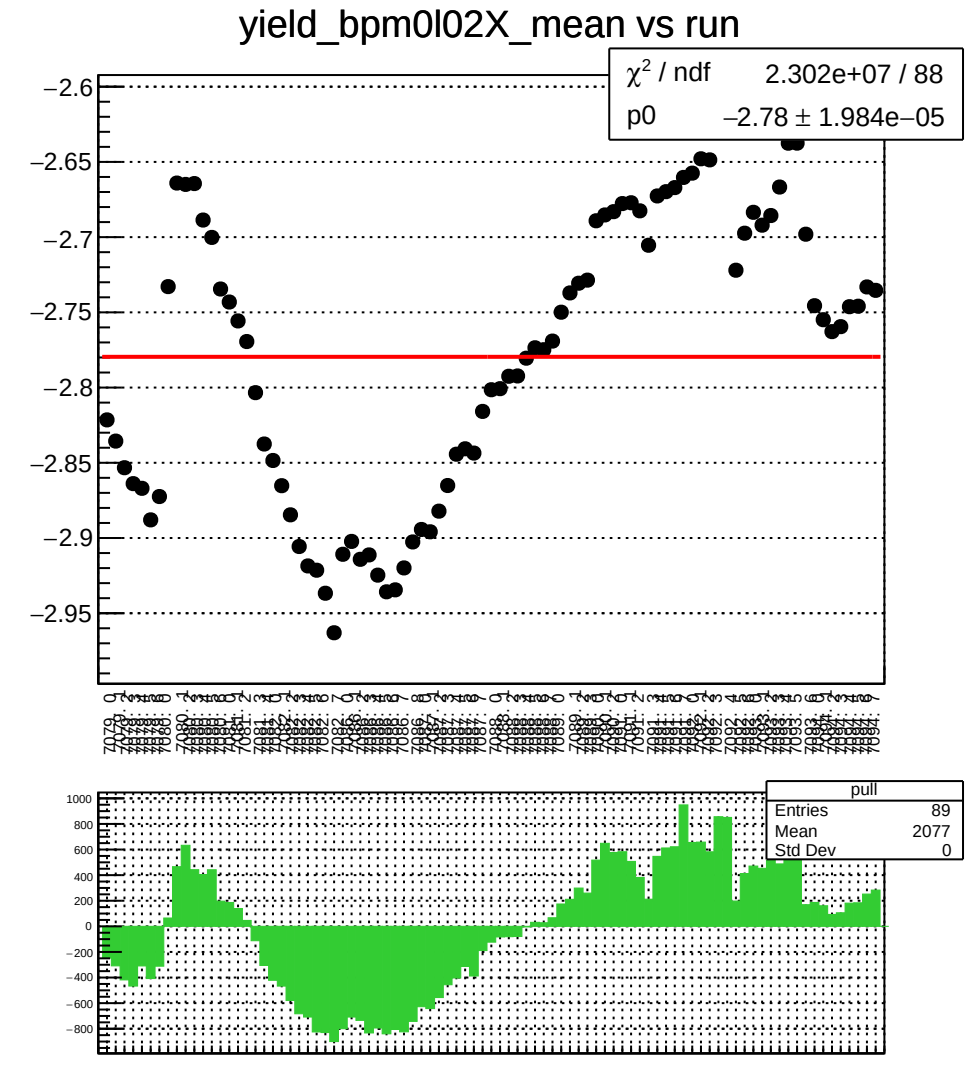

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

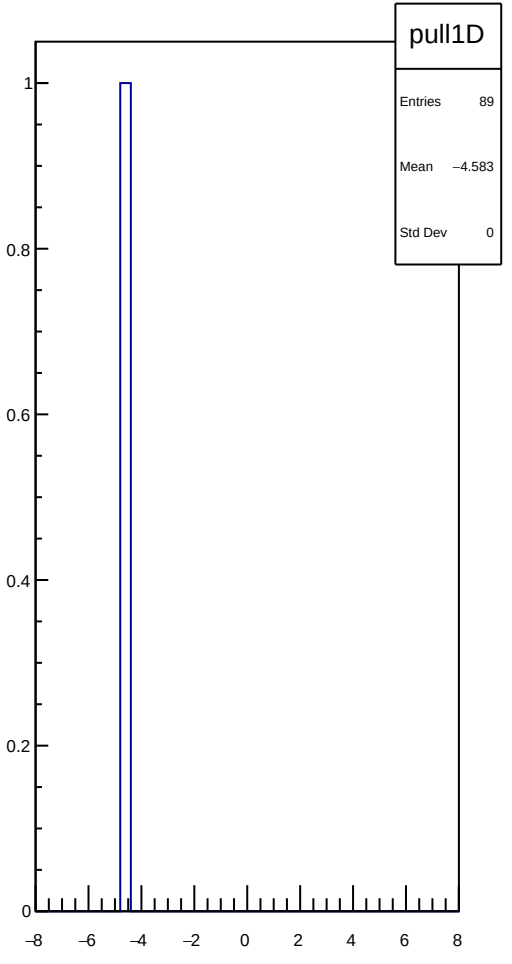

yield_bpm0l01X_rms vs run
χ² / ndf 1.16e+05 / 88
p0 0.008731 ± 6.968e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

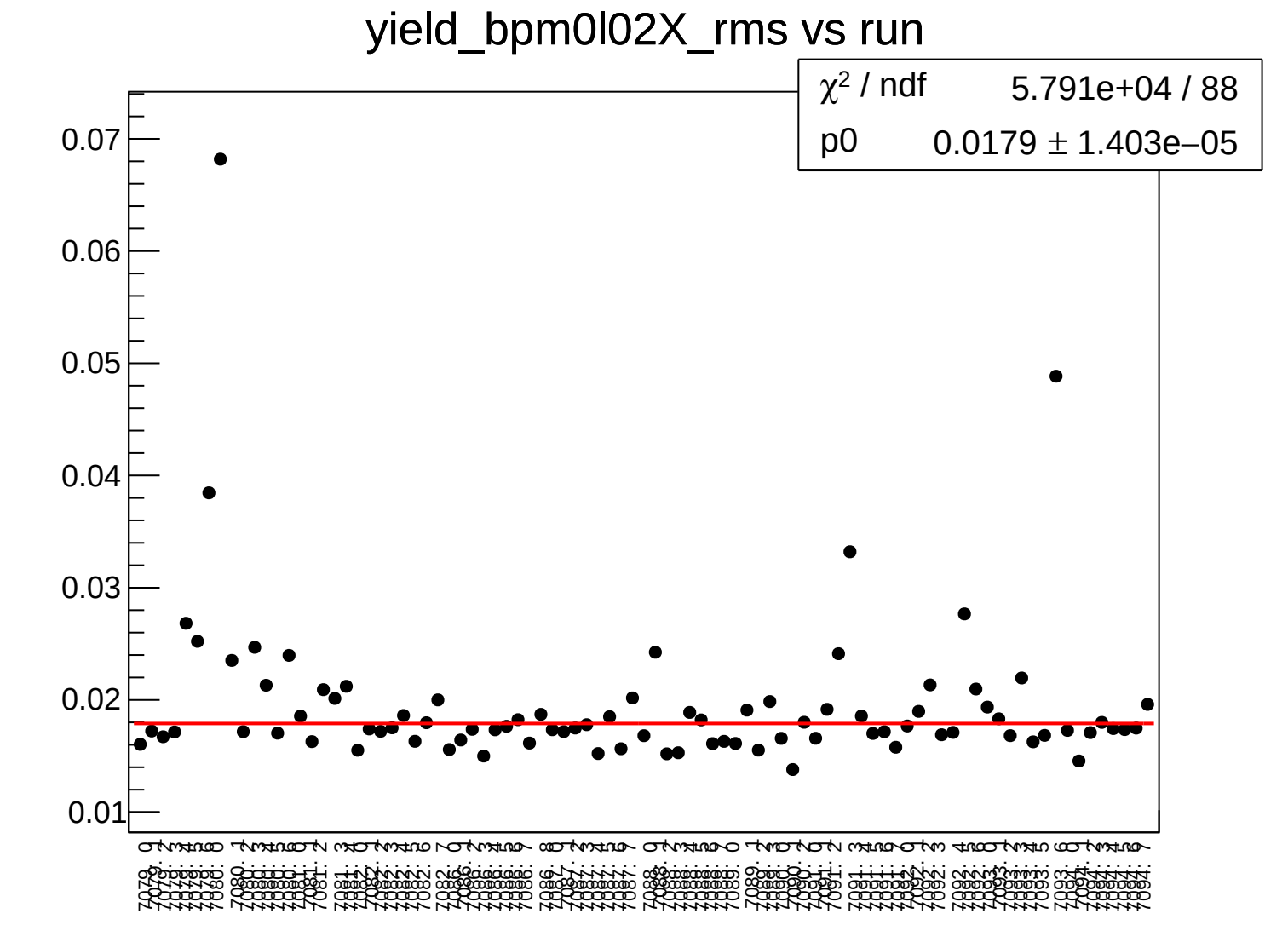

yield_bpm0l01Y_mean vs run
χ² / ndf 5.14e+06 / 88
p0 −5.671 ± 1.293e−05
−5.64
−5.66
−5.68
−5.7
−5.72
−5.74
−5.76
−5.78
pull
Entries 89
Mean 235.7
Std Dev 0
400
200
0
−200
−400
−600
−800

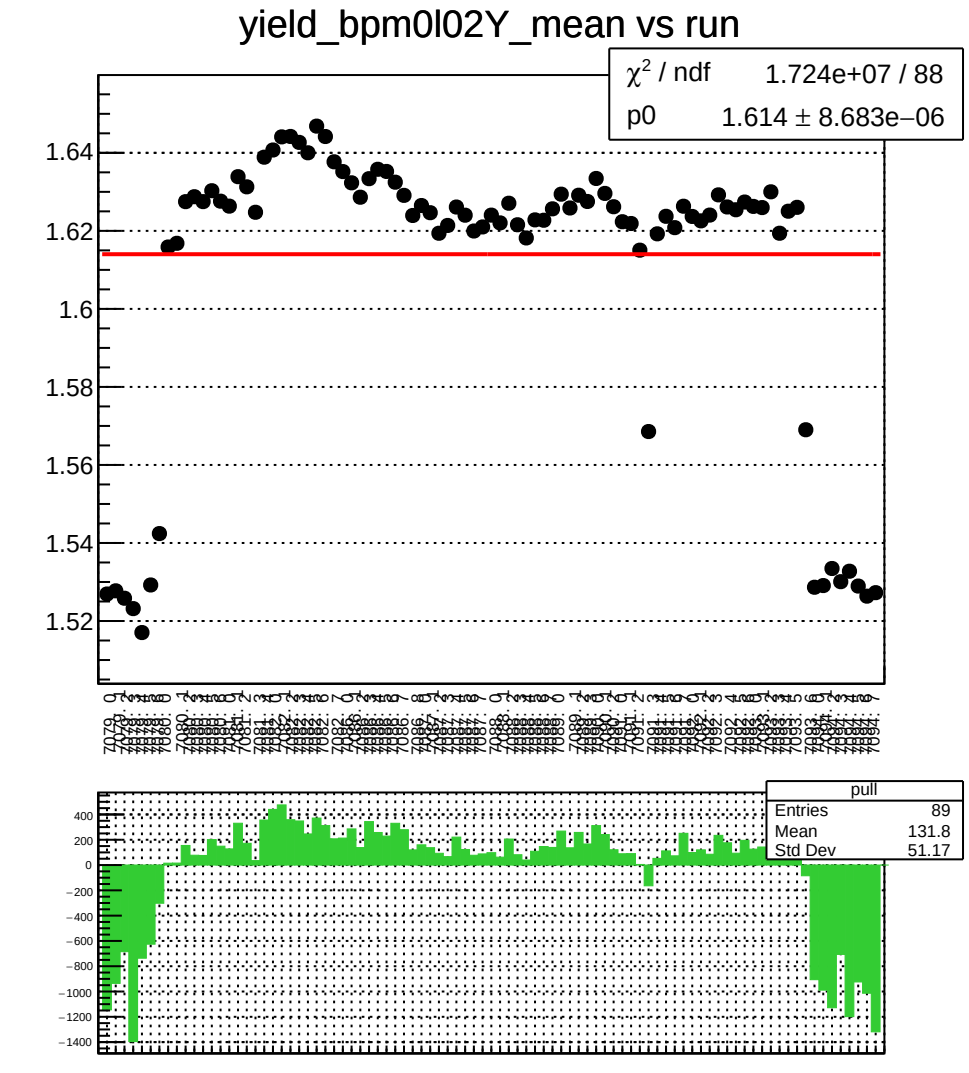

pull1D
Entries 89
Mean 1.278
Std Dev 5.994
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

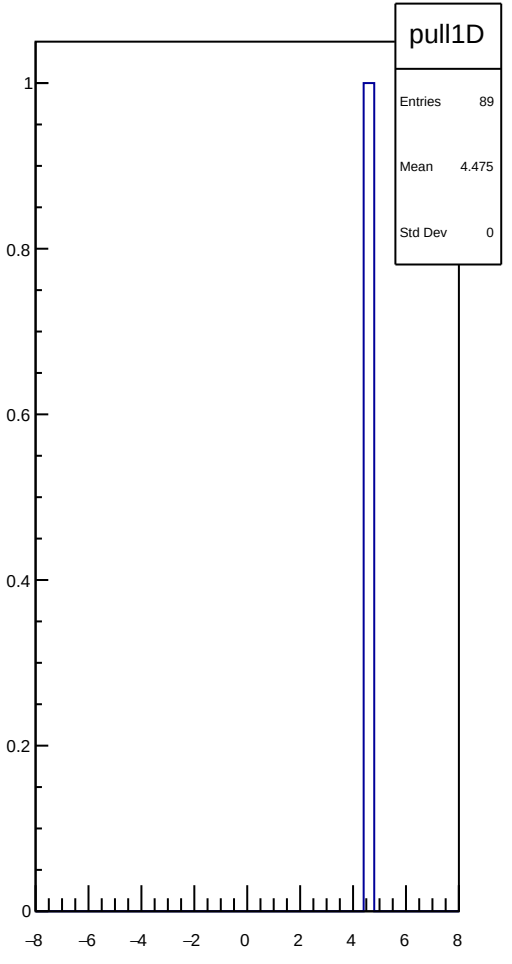

yield_bpm0l01Y_rms vs run
χ² / ndf 2.448e+05 / 88
p0 0.01097 ± 9.139e–06
0.06
0.05
0.04
0.03
0.02
0.01

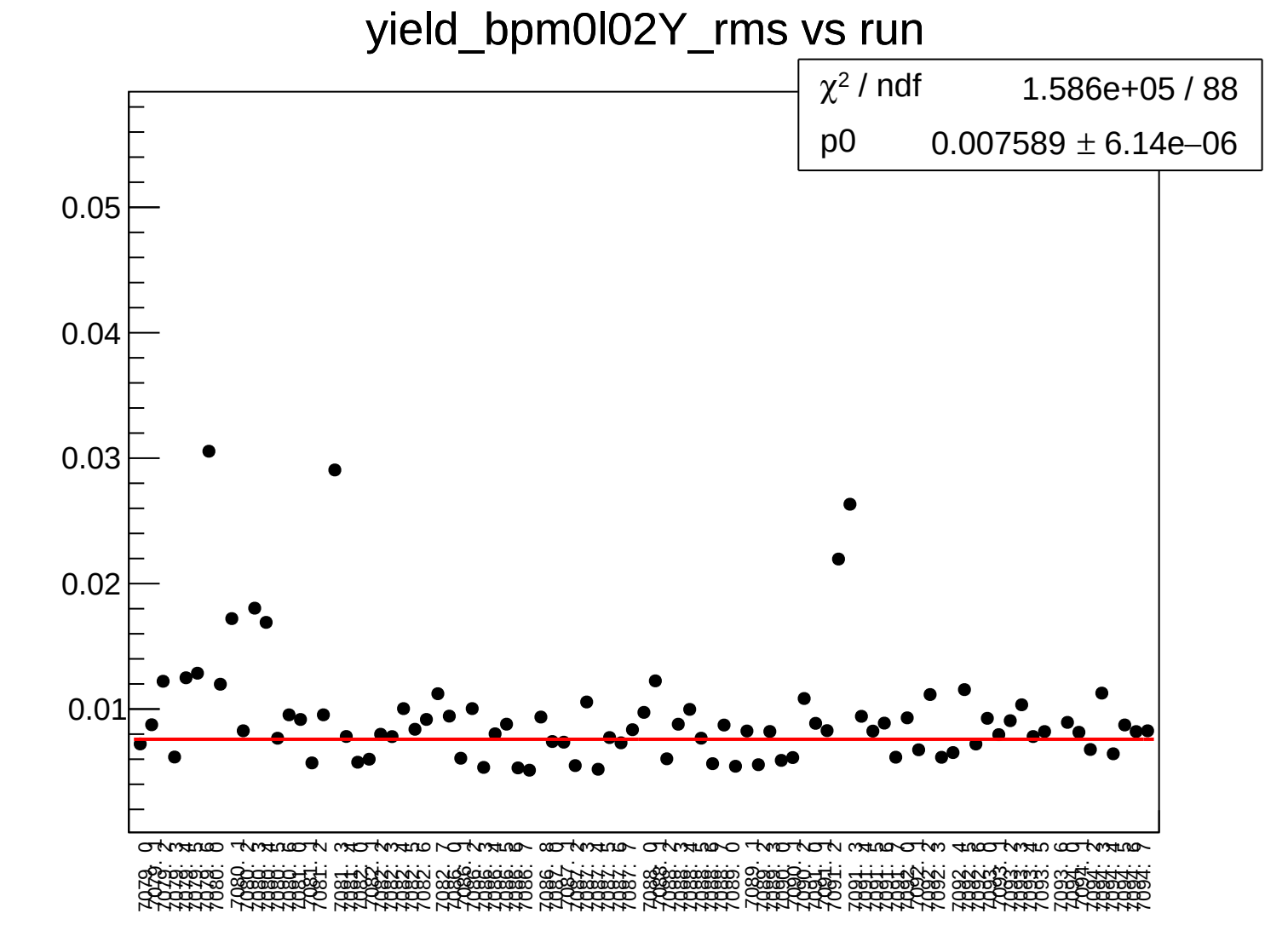

yield_bpm0l02X_mean vs run
χ² / ndf 2.302e+07 / 88
p0 −2.78 ± 1.984e−05
−2.6
−2.65
−2.7
−2.75
−2.8
−2.85
−2.9
−2.95
pull
Entries 89
Mean 2077
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

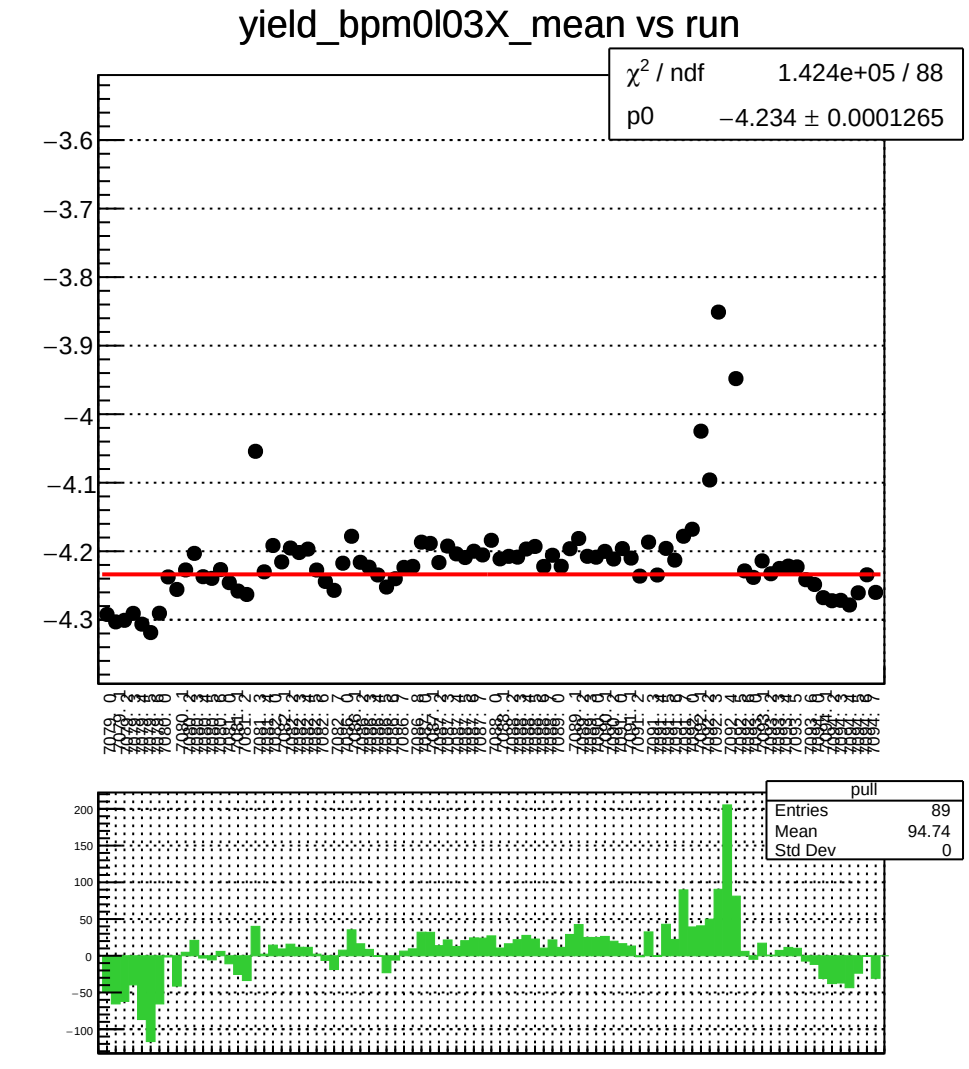

pull1D
Entries 89
Mean −4.583
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

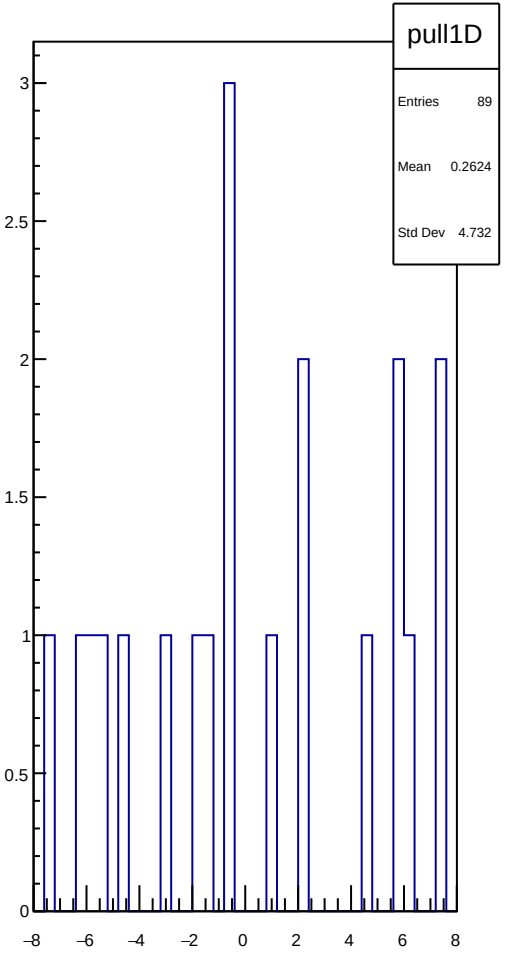

yield_bpm0l02X_rms vs run
χ² / ndf 5.791e+04 / 88
p0 0.0179 ± 1.403e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

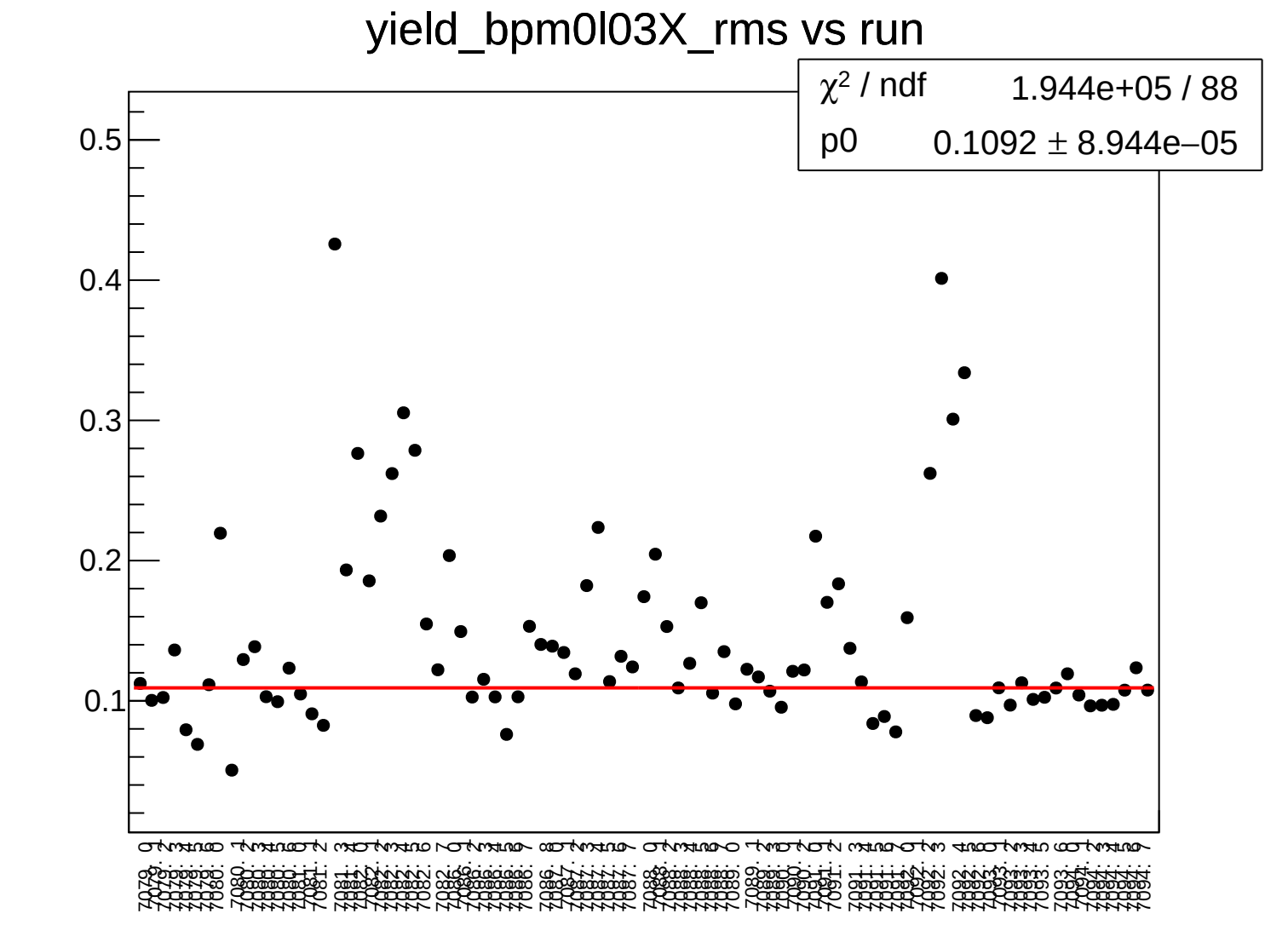

yield_bpm0l02Y_mean vs run
χ² / ndf 1.724e+07 / 88
p0 1.614 ± 8.683e−06
1.64
1.62
1.6
1.58
1.56
1.54
1.52
pull
Entries 89
Mean 131.8
Std Dev 51.17
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

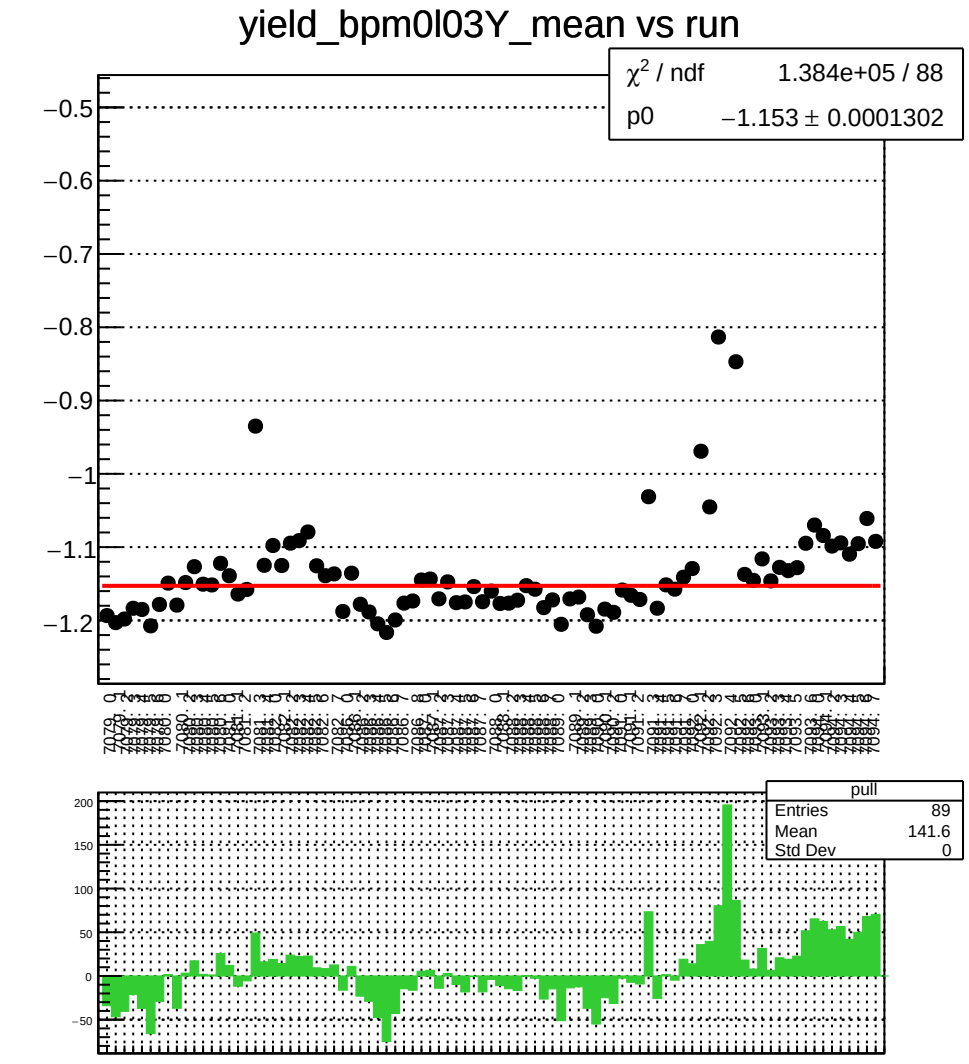

pull1D
Entries 89
Mean 4.475
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

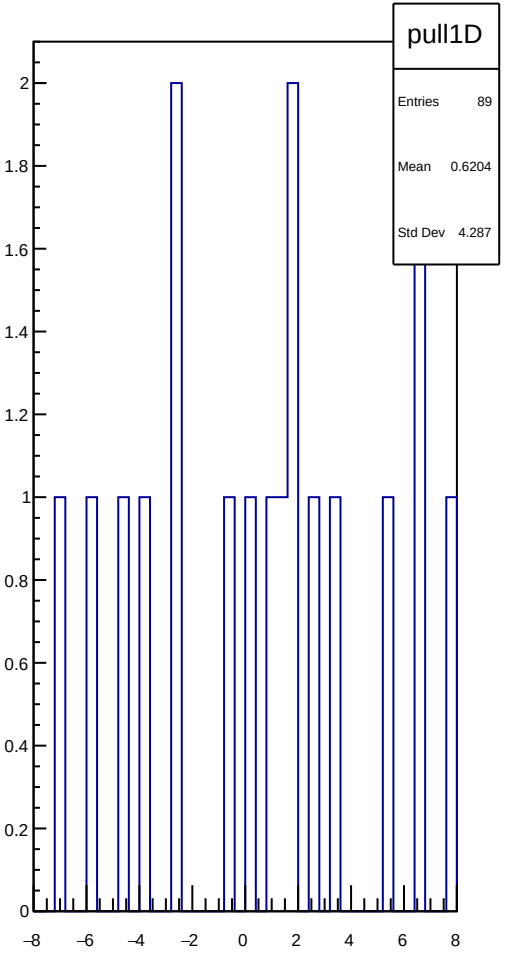

yield_bpm0l02Y_rms vs run
χ² / ndf 1.586e+05 / 88
p0 0.007589 ± 6.14e−06
0.05
0.04
0.03
0.02
0.01

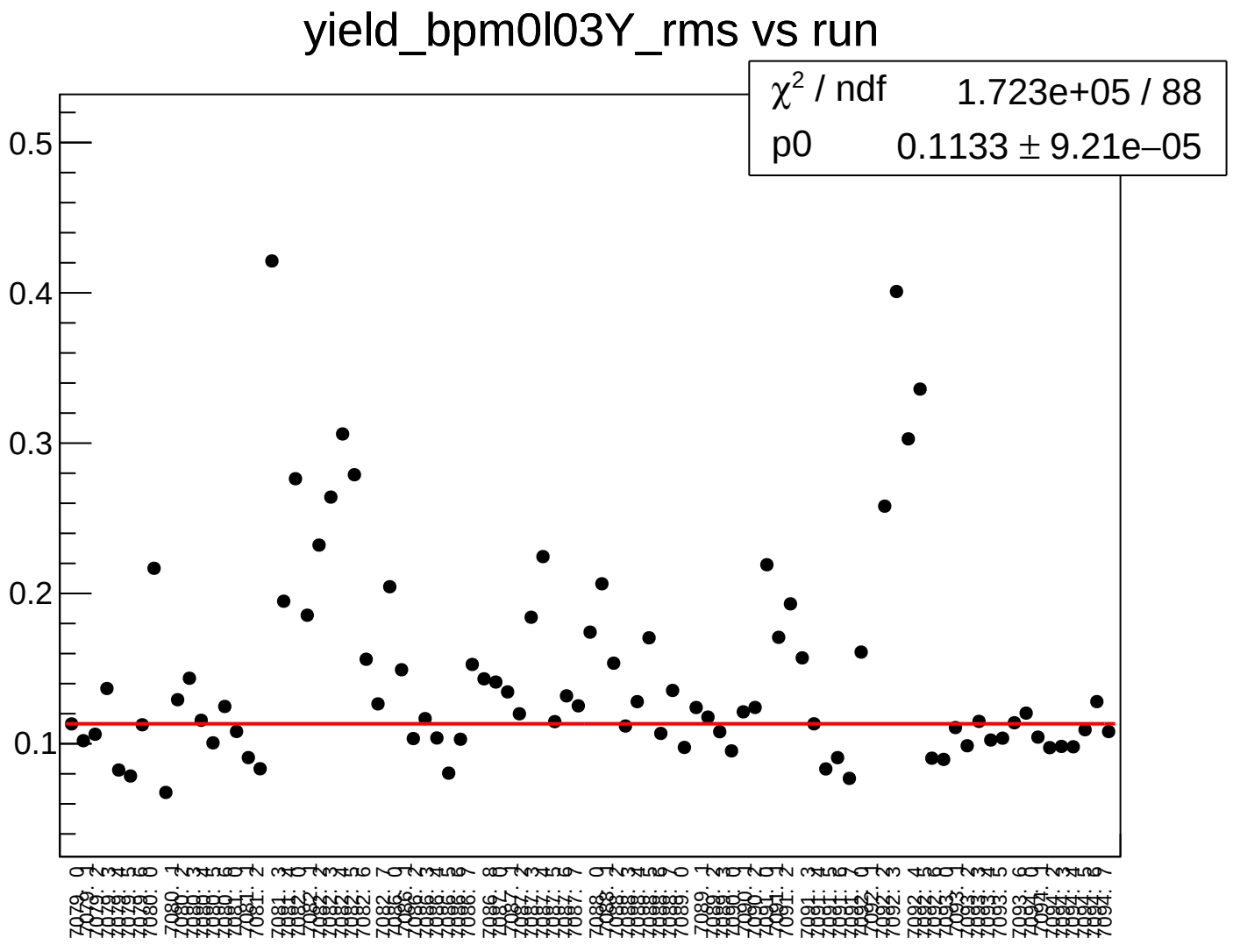

yield_bpm0l03X_mean vs run
χ² / ndf 1.424e+05 / 88
p0 −4.234 ± 0.0001265
−3.6
−3.7
−3.8
−3.9
−4
−4.1
−4.2
−4.3
pull
Entries 89
Mean 94.74
Std Dev 0
200
150
100
50
0
−50
−100

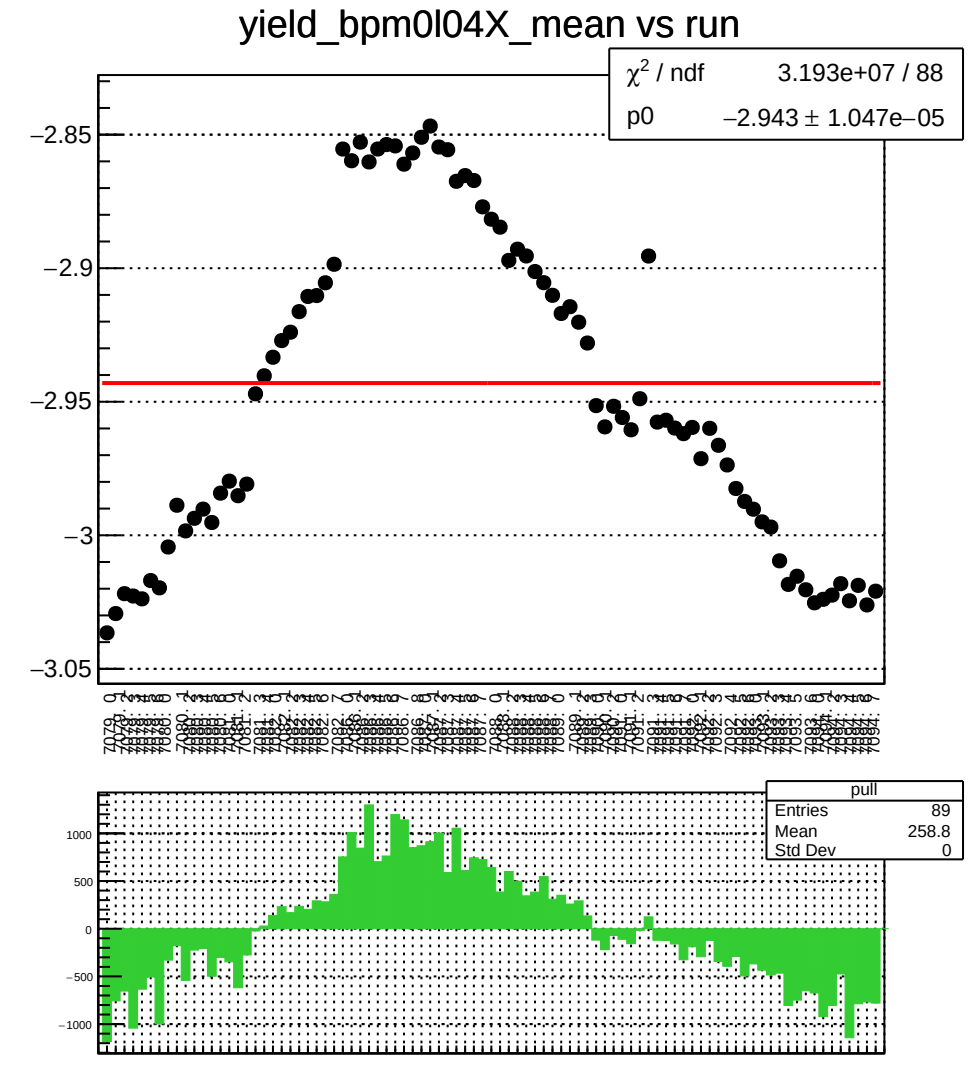

pull1D
Entries 89
Mean 0.2624
Std Dev 4.732
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

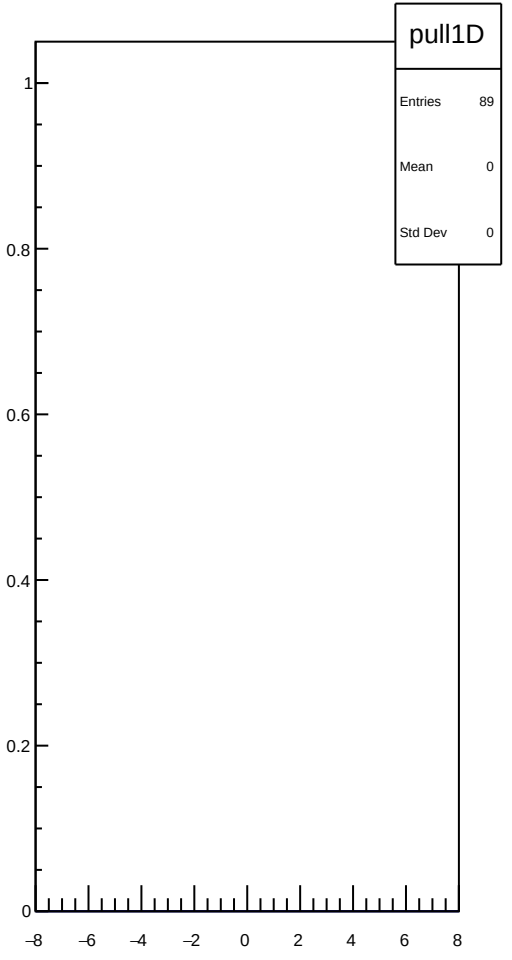

yield_bpm0l03X_rms vs run
χ² / ndf 1.944e+05 / 88
p0 0.1092 ± 8.944e−05
0.5
0.4
0.3
0.2
0.1


yield_bpm0l03Y_mean vs run
χ² / ndf 1.384e+05 / 88
p0 −1.153 ± 0.0001302
−0.5
−0.6
−0.7
−0.8
−0.9
−1
−1.1
−1.2
pull
Entries 89
Mean 141.6
Std Dev 0
200
150
100
50
0
−50

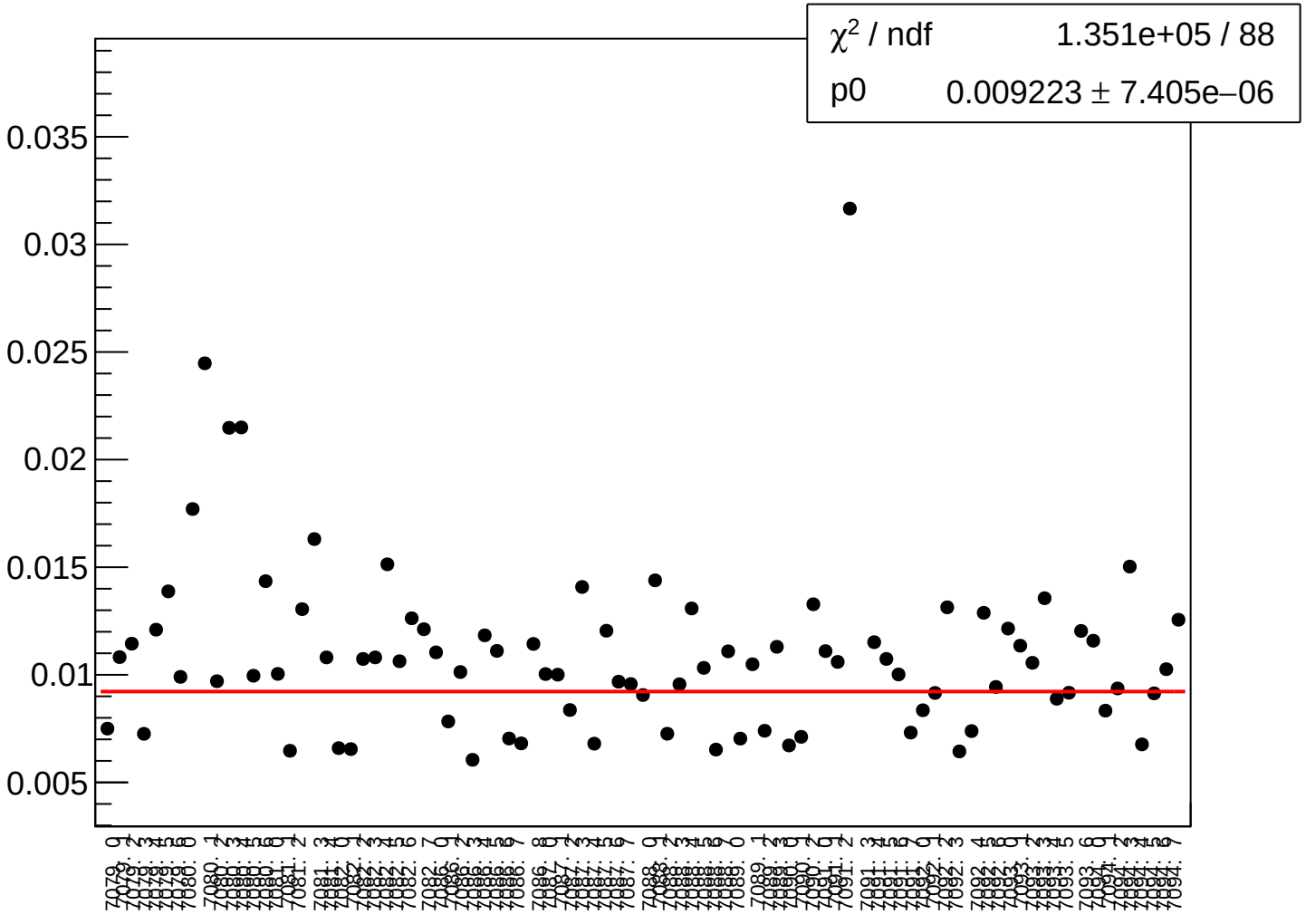

pull1D
Entries 89
Mean 0.6204
Std Dev 4.287
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

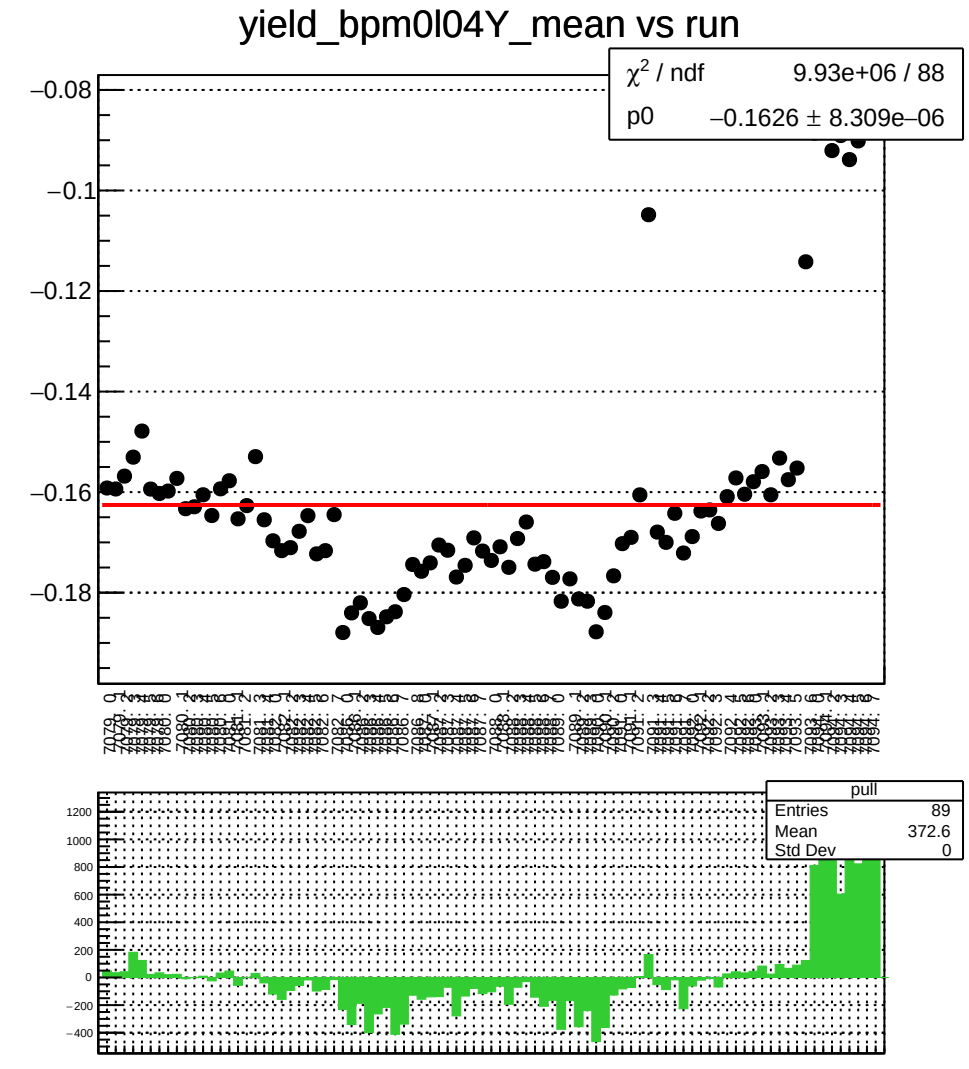

yield_bpm0l03Y_rms vs run
χ² / ndf 1.723e+05 / 88
p0 0.1133 ± 9.21e−05
0.5
0.4
0.3
0.2
0.1

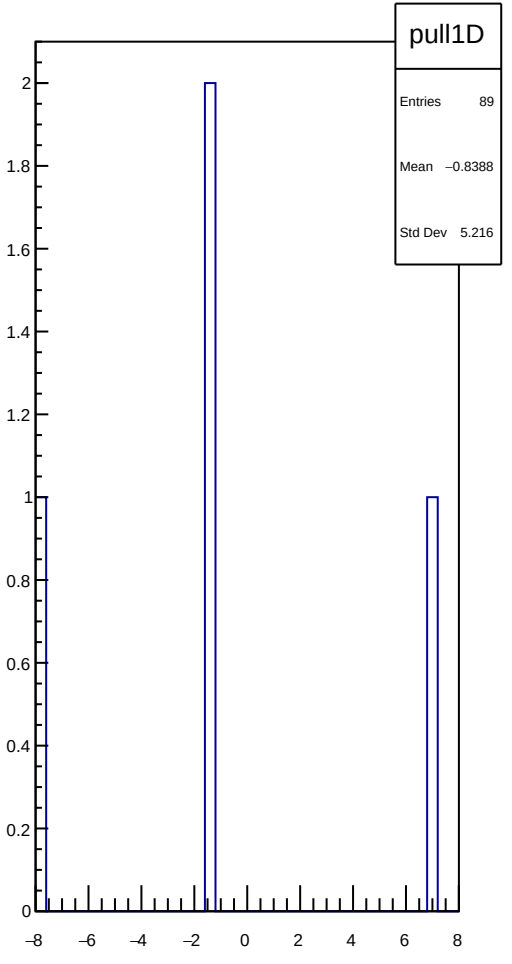

yield_bpm0l04X_mean vs run
χ² / ndf 3.193e+07 / 88
p0 −2.943 ± 1.047e−05
−2.85
−2.9
−2.95
−3
−3.05
pull
Entries 89
Mean 258.8
Std Dev 0
1000
500
0
−500
−1000

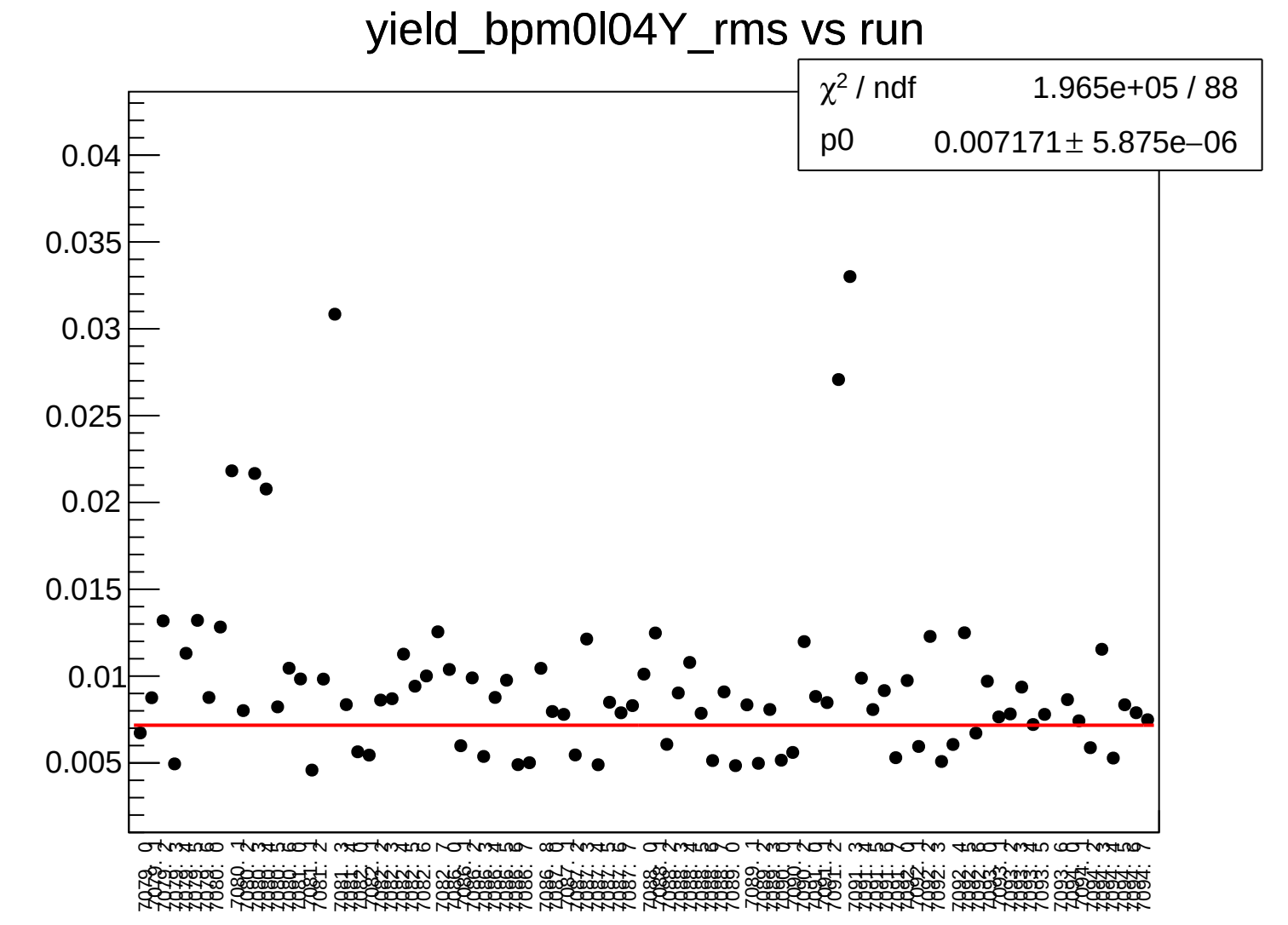

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

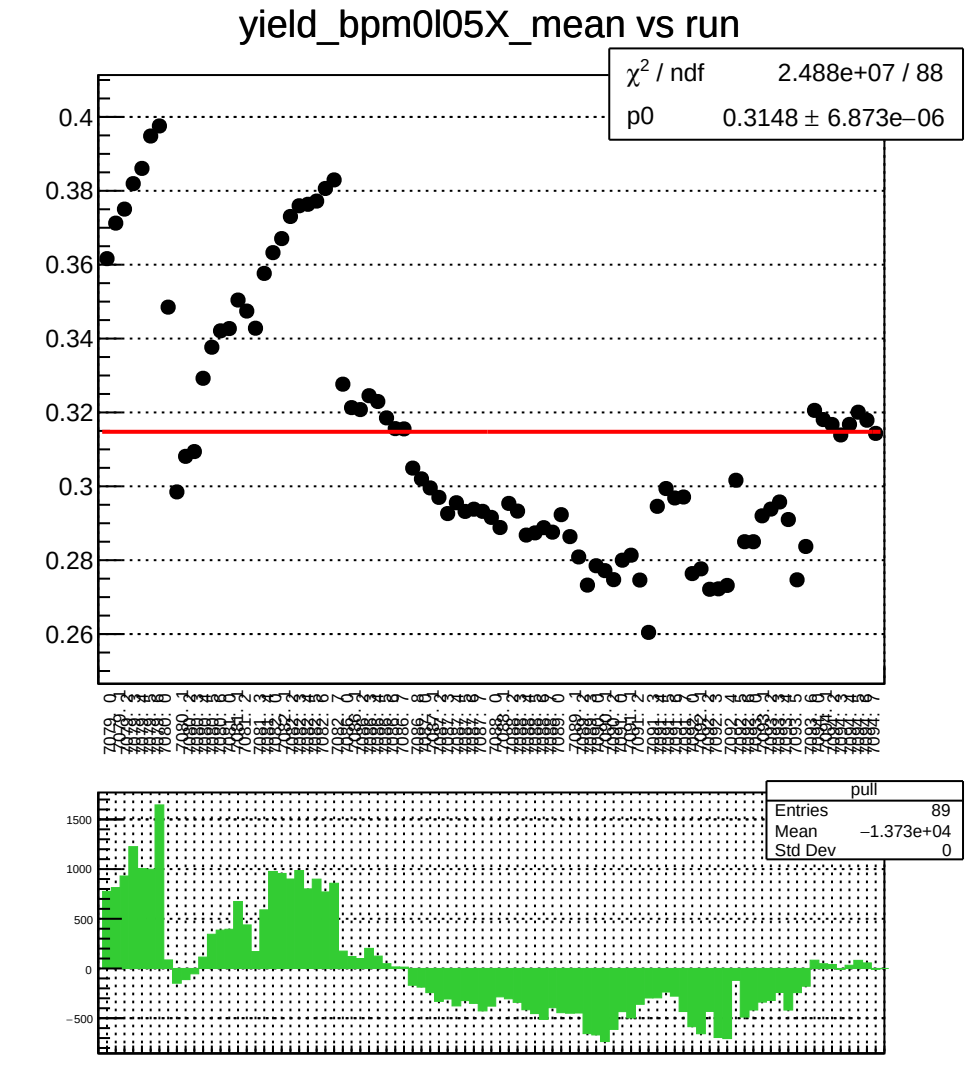
yield_bpm0l04X_rms vs run

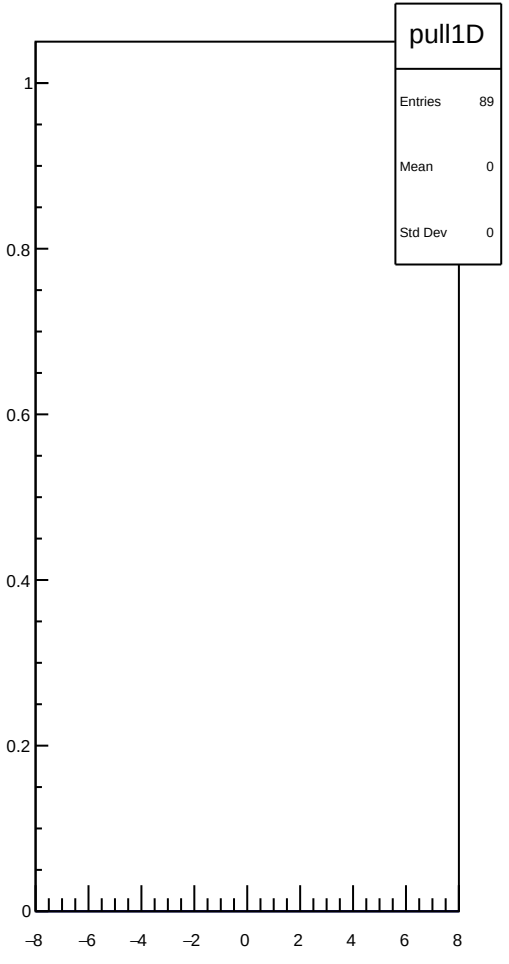


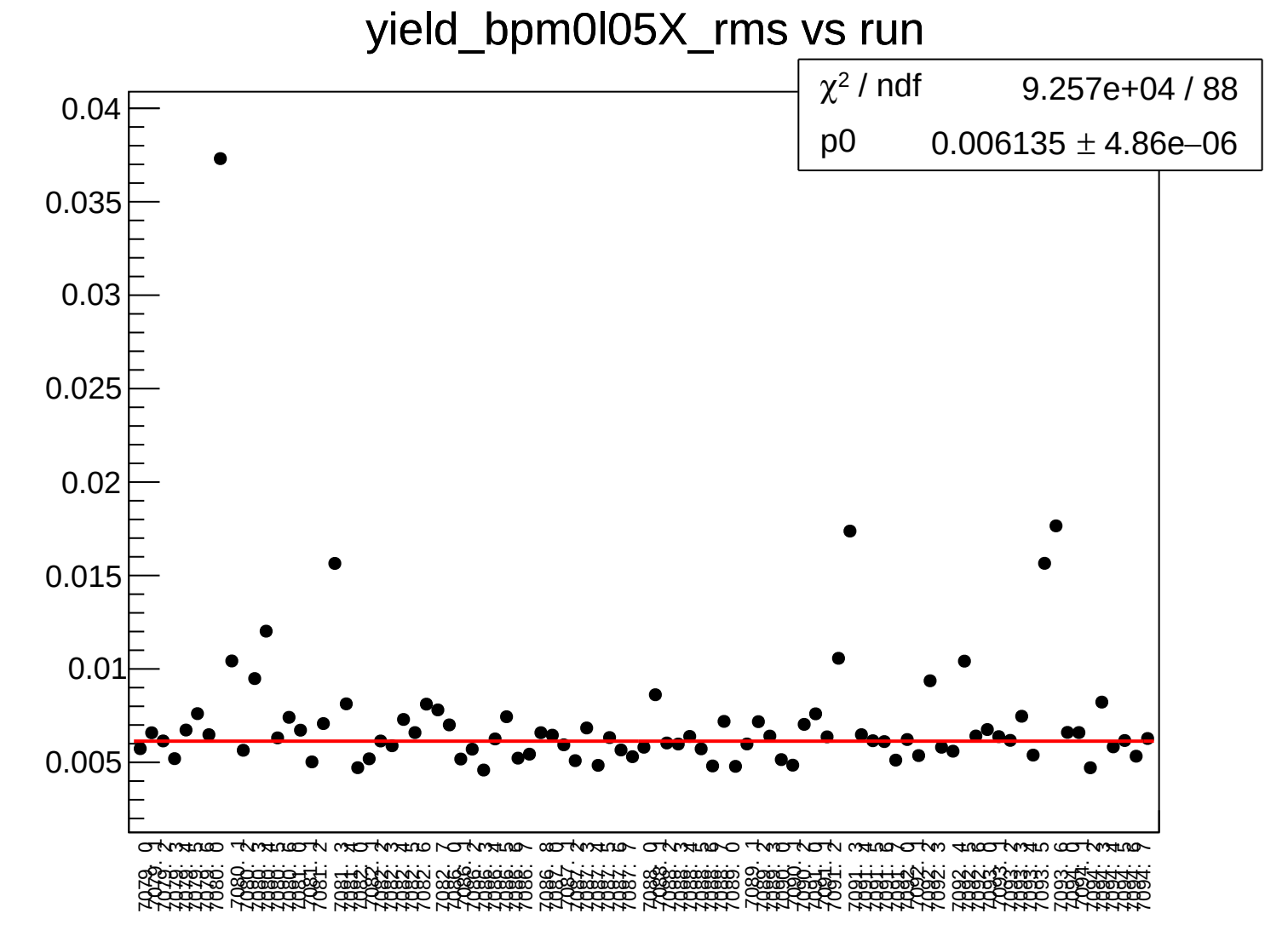

yield_bpm0l04Y_mean vs run
χ² / ndf 9.93e+06 / 88
p0 −0.1626 ± 8.309e−06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 89
Mean 372.6
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

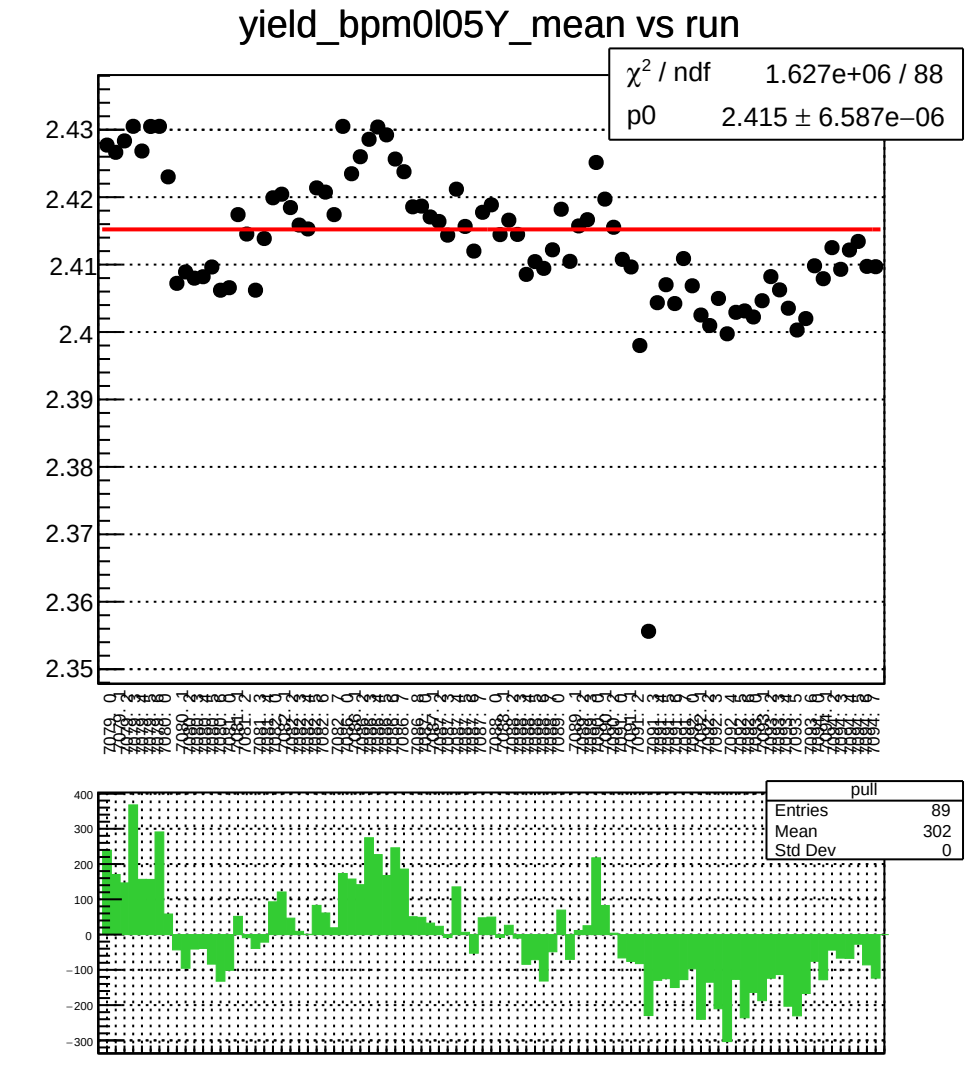

pull1D
Entries 89
Mean −0.8388
Std Dev 5.216
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

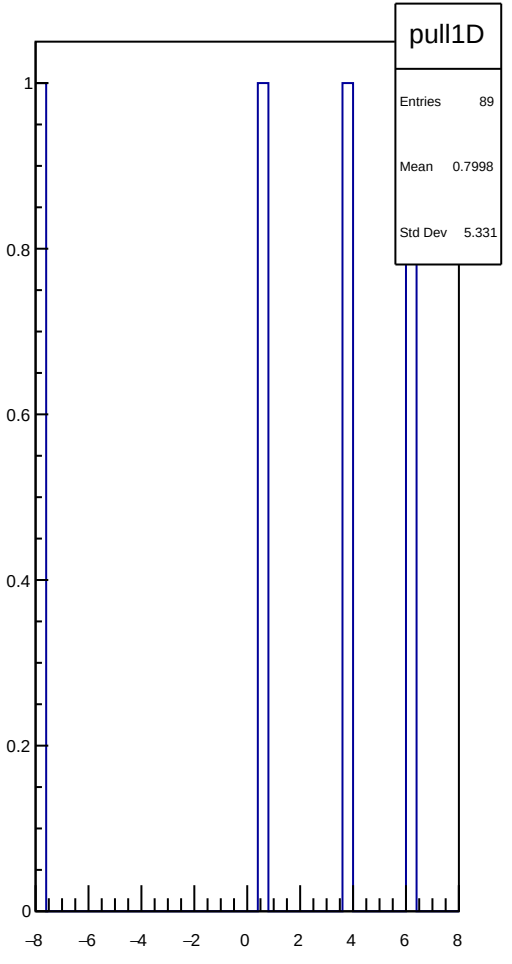

yield_bpm0l04Y_rms vs run
χ² / ndf 1.965e+05 / 88
p0 0.007171 ± 5.875e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

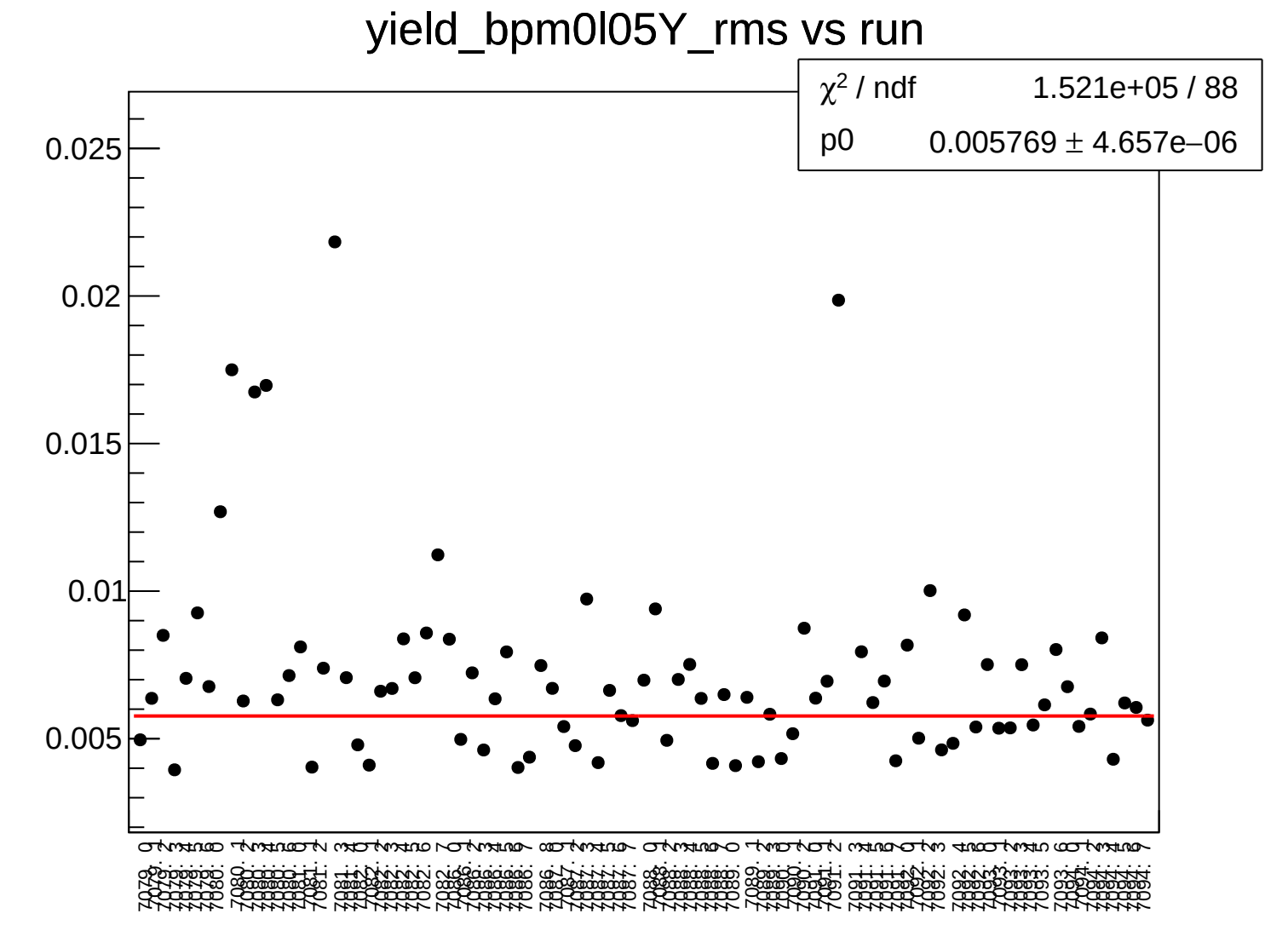

yield_bpm0l05X_mean vs run
χ² / ndf 2.488e+07 / 88
p0 0.3148 ± 6.873e−06
0.4
0.38
0.36
0.34
0.32
0.3
0.28
0.26
pull
Entries 89
Mean −1.373e+04
Std Dev 0
1500
1000
500
0
−500

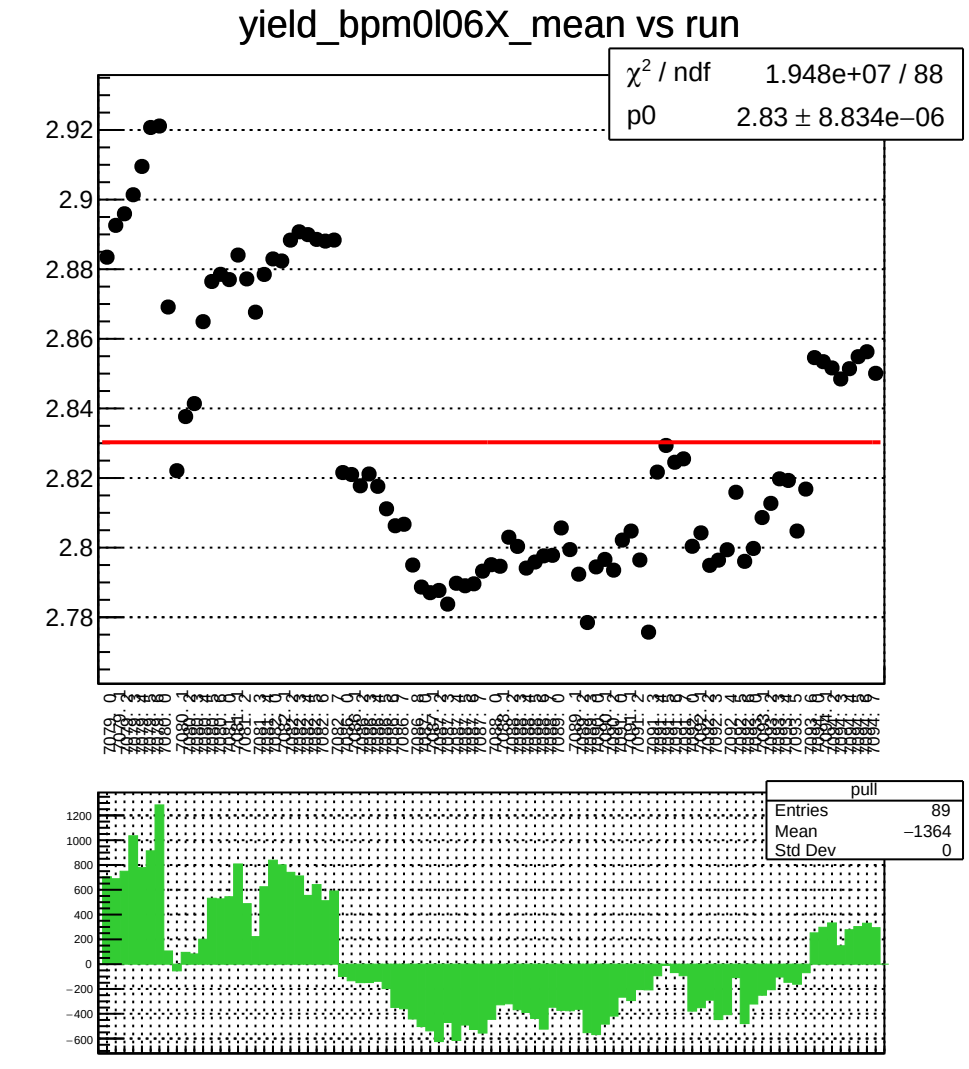

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

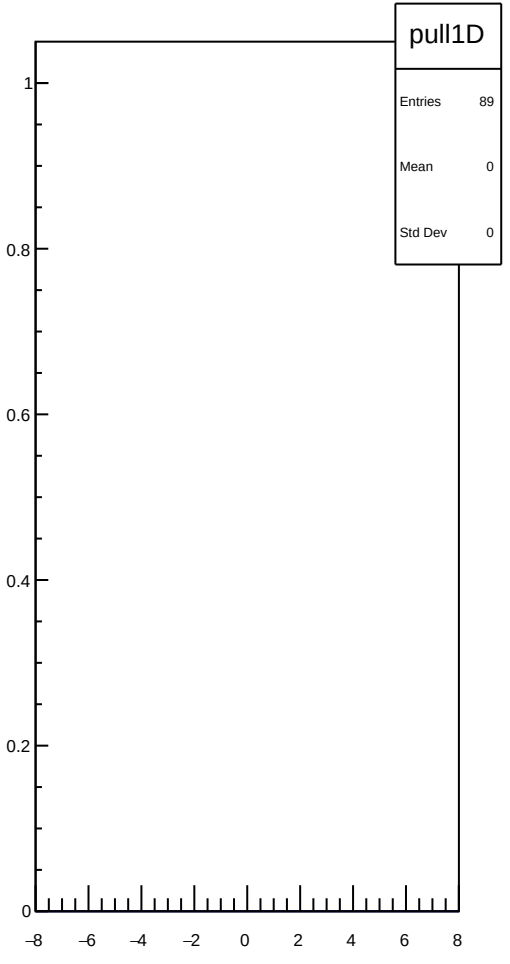

yield_bpm0l05X_rms vs run
χ² / ndf 9.257e+04 / 88
p0 0.006135 ± 4.86e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

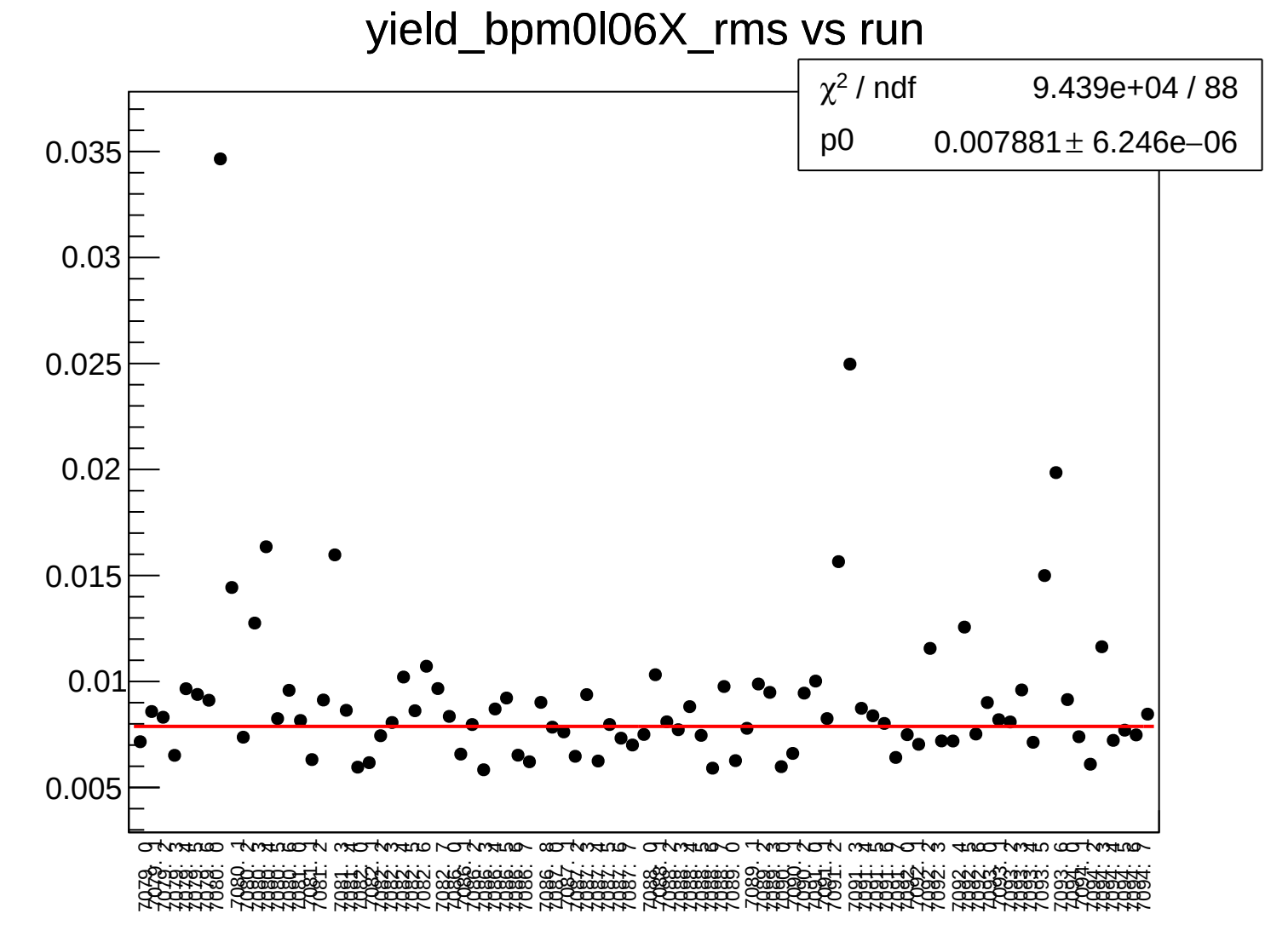

yield_bpm0l05Y_mean vs run
χ² / ndf 1.627e+06 / 88
p0 2.415 ± 6.587e−06
2.43
2.42
2.41
2.4
2.39
2.38
2.37
2.36
2.35
pull
Entries 89
Mean 302
Std Dev 0
400
300
200
100
0
−100
−200
−300

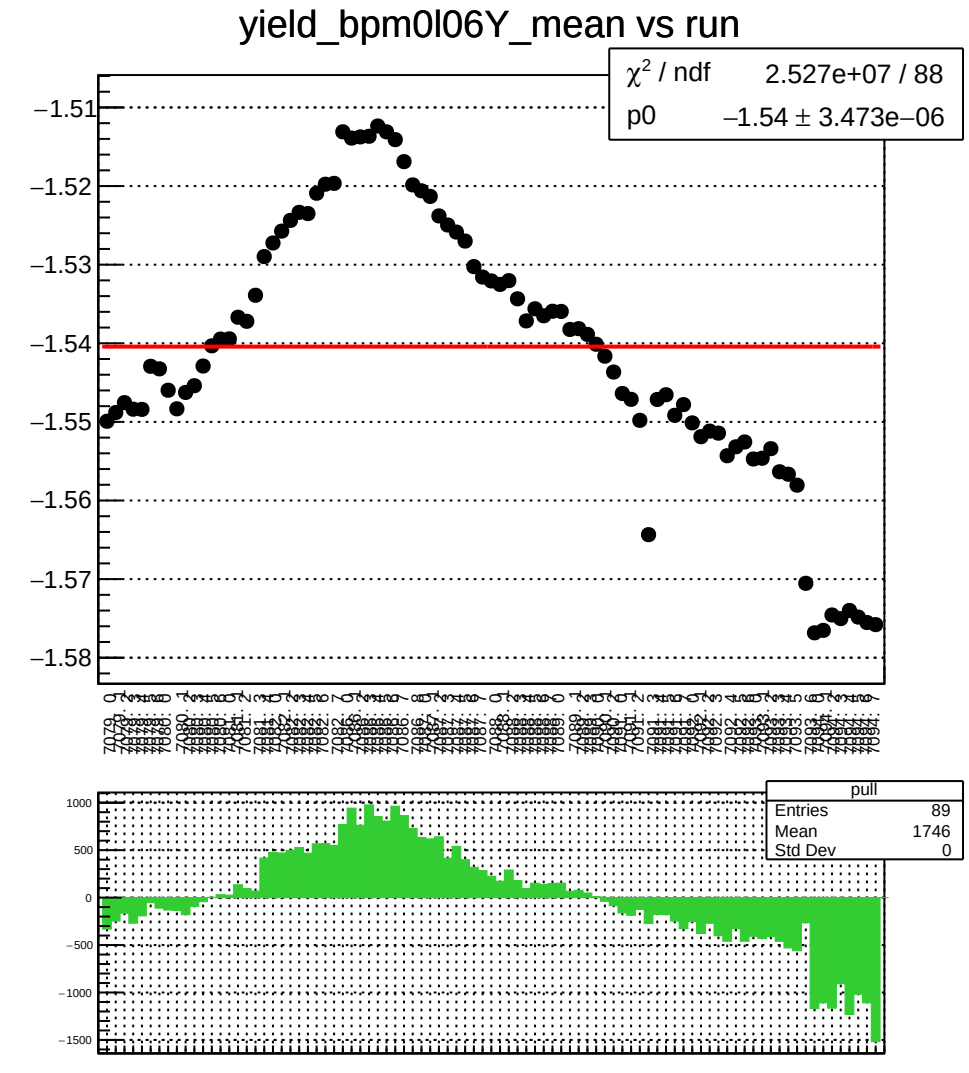

pull1D
Entries 89
Mean 0.7998
Std Dev 5.331
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

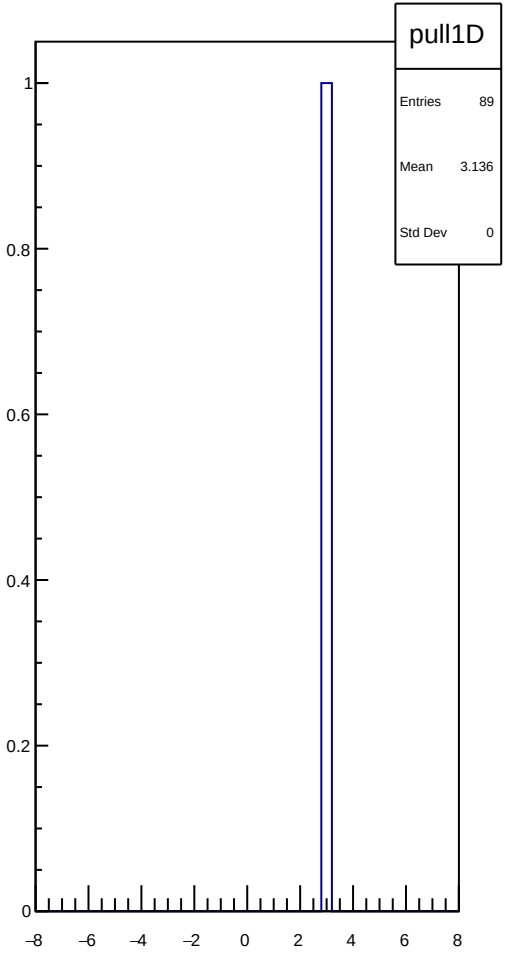

yield_bpm0l05Y_rms vs run
χ² / ndf 1.521e+05 / 88
p0 0.005769 ± 4.657e−06
0.025
0.02
0.015
0.01
0.005

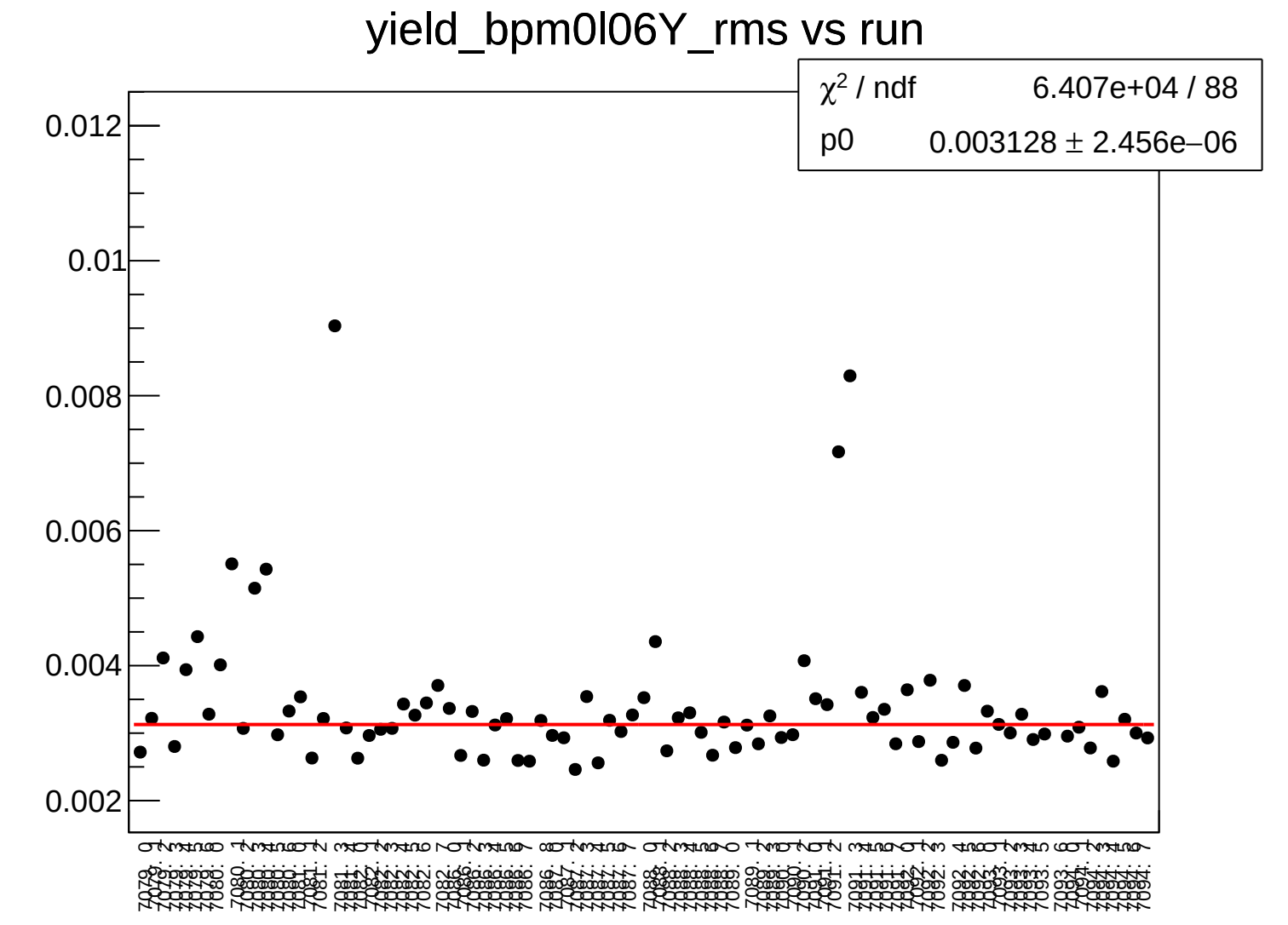

yield_bpm0l06X_mean vs run
χ² / ndf 1.948e+07 / 88
p0 2.83 ± 8.834e−06
2.92
2.9
2.88
2.86
2.84
2.82
2.8
2.78
pull
Entries 89
Mean −1364
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

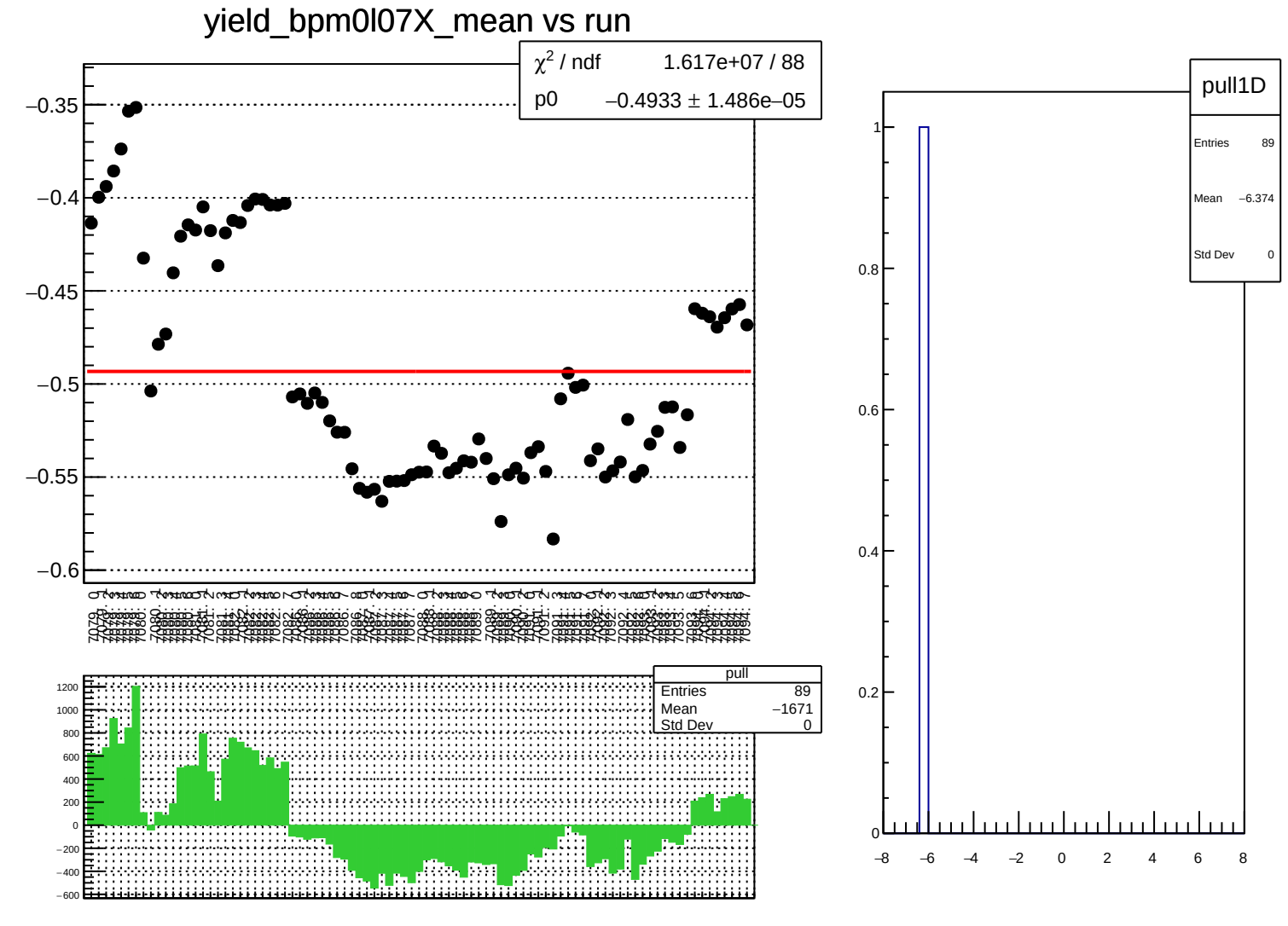

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

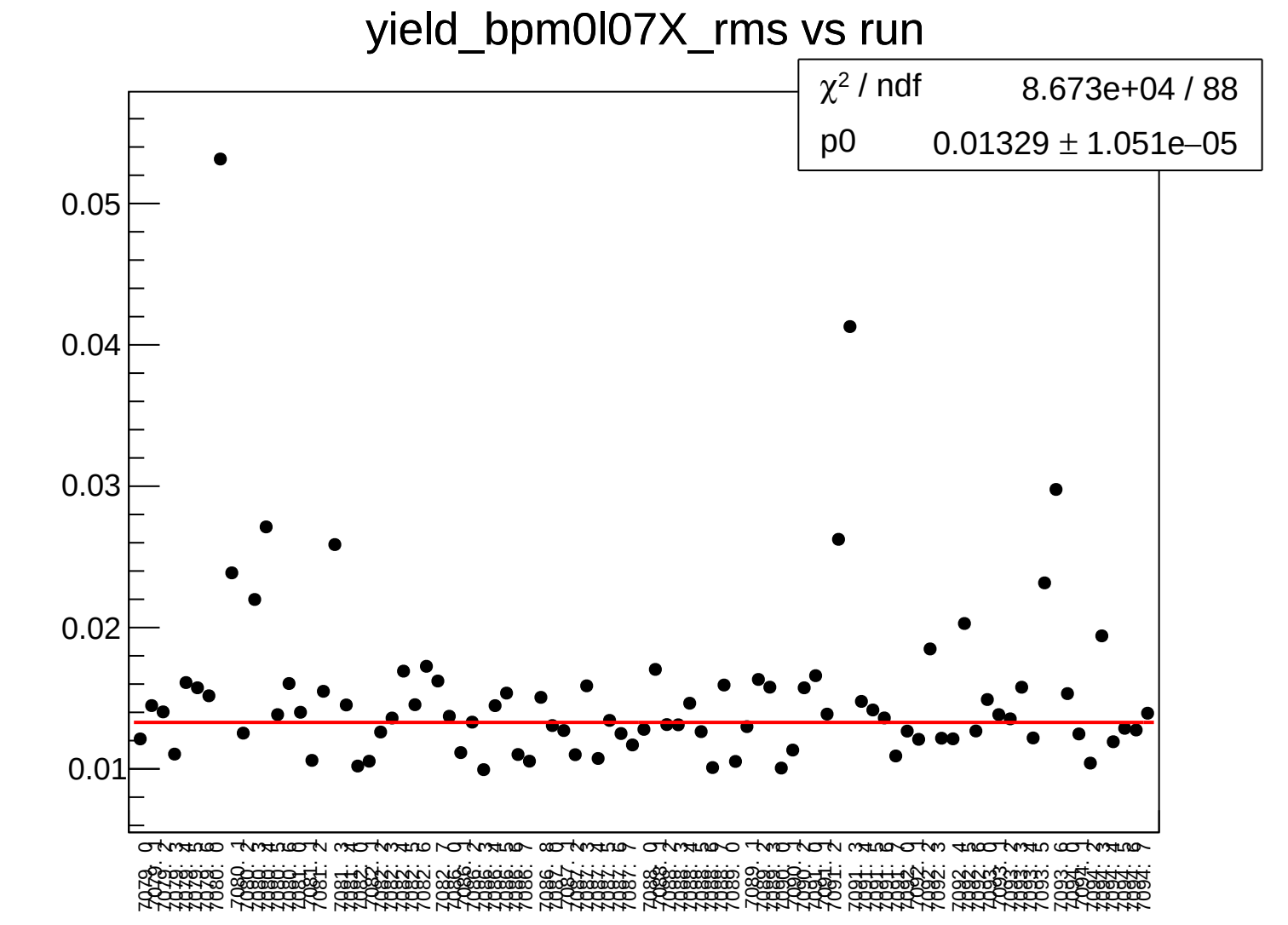

yield_bpm0l06X_rms vs run
χ^2 / ndf 9.439e+04 / 88
p0 0.007881 ± 6.246e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

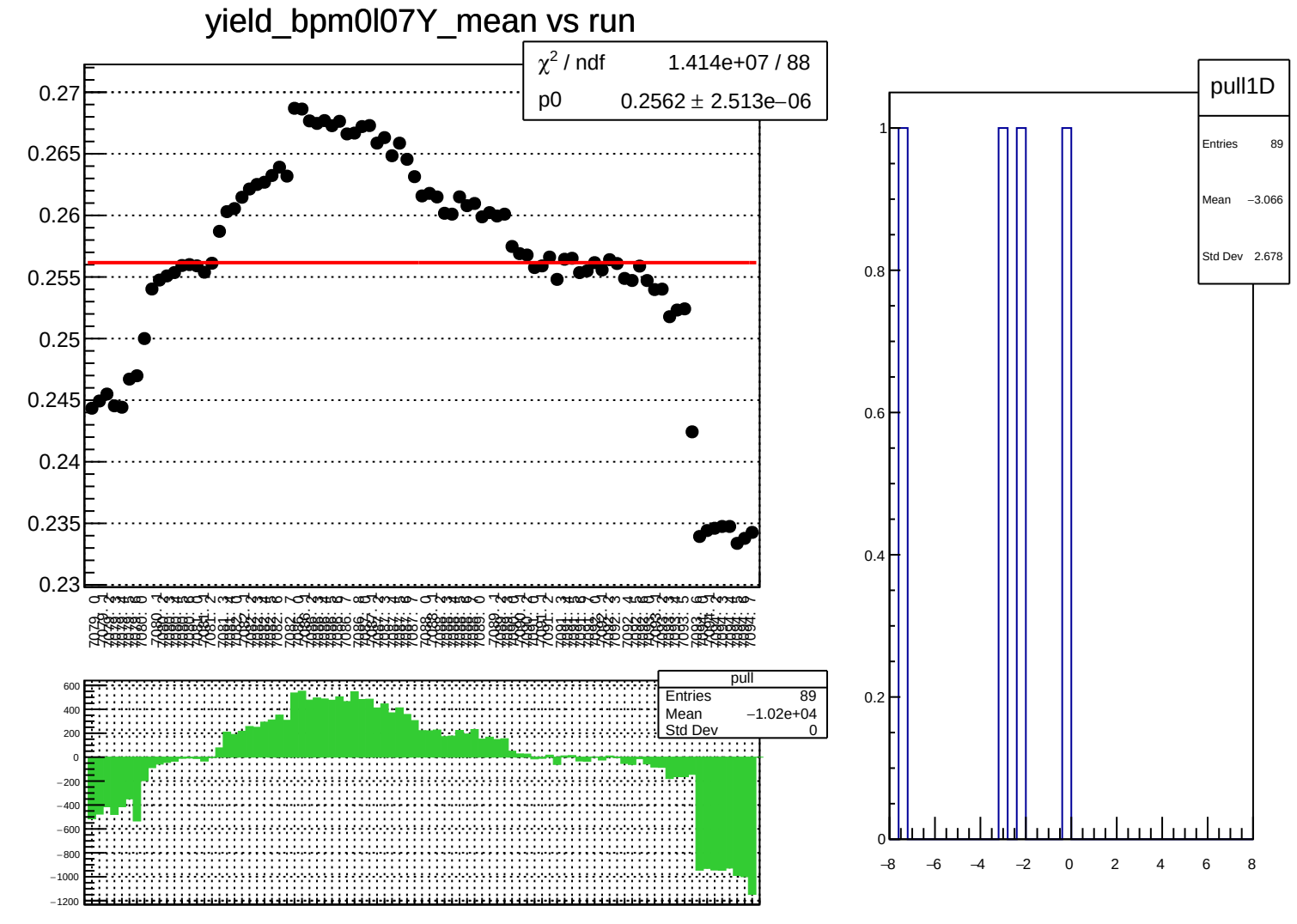

yield_bpm0l06Y_mean vs run
χ² / ndf 2.527e+07 / 88
p0 −1.54 ± 3.473e−06
−1.51
−1.52
−1.53
−1.54
−1.55
−1.56
−1.57
−1.58
pull
Entries 89
Mean 1746
Std Dev 0
1000
500
0
−500
−1000
−1500

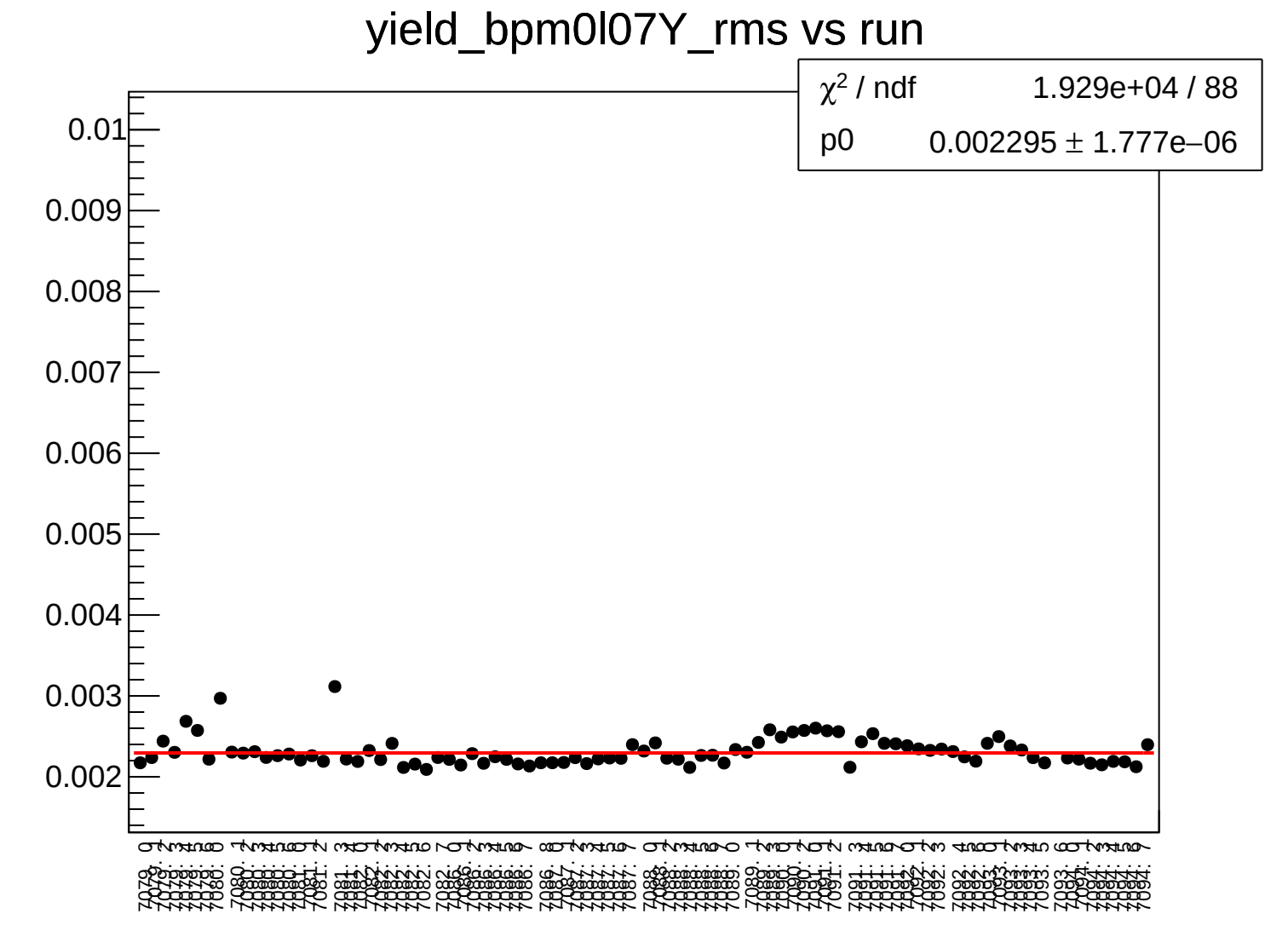

pull1D
Entries 89
Mean 3.136
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

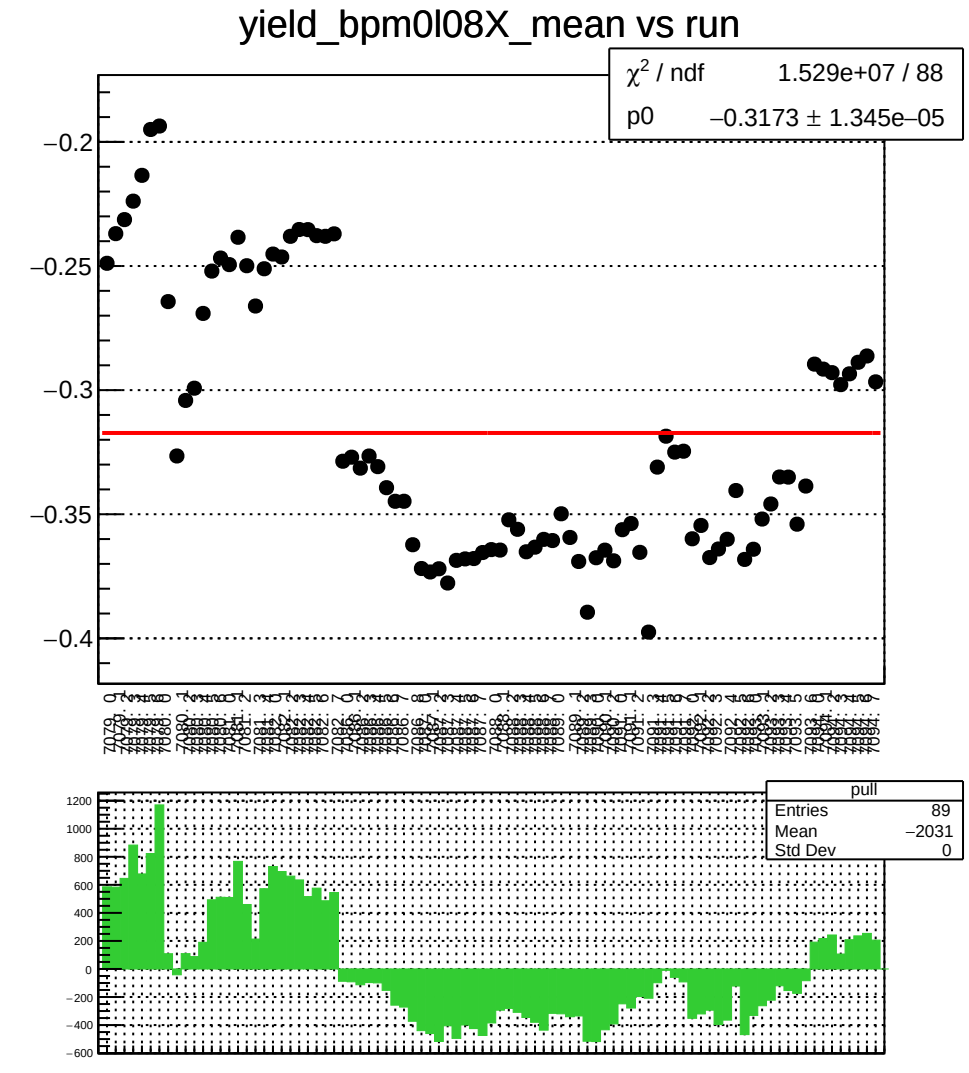

yield_bpm0l06Y_rms vs run
χ² / ndf 6.407e+04 / 88
p0 0.003128 ± 2.456e−06
0.012
0.01
0.008
0.006
0.004
0.002

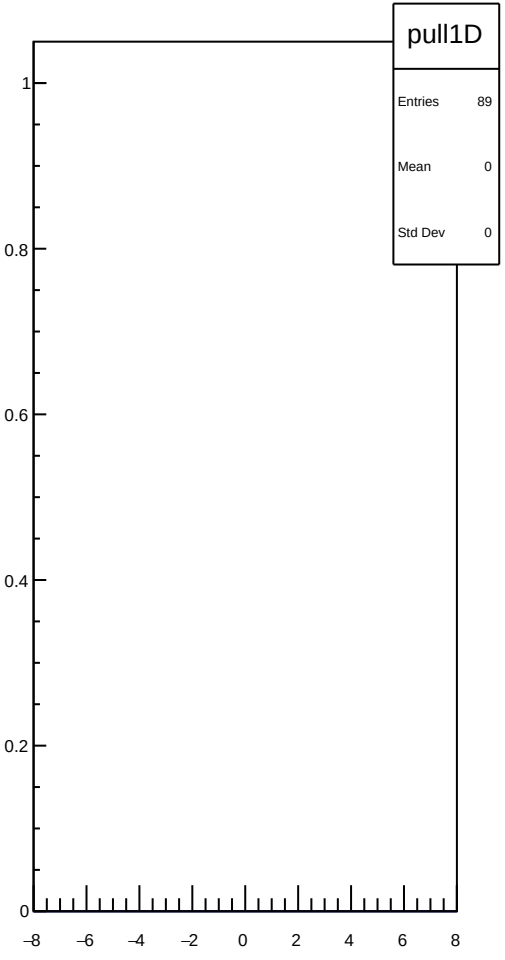

yield_bpm0l07X_mean vs run
χ² / ndf 1.617e+07 / 88
p0 −0.4933 ± 1.486e−05
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
pull
Entries 89
Mean −1671
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean −6.374
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

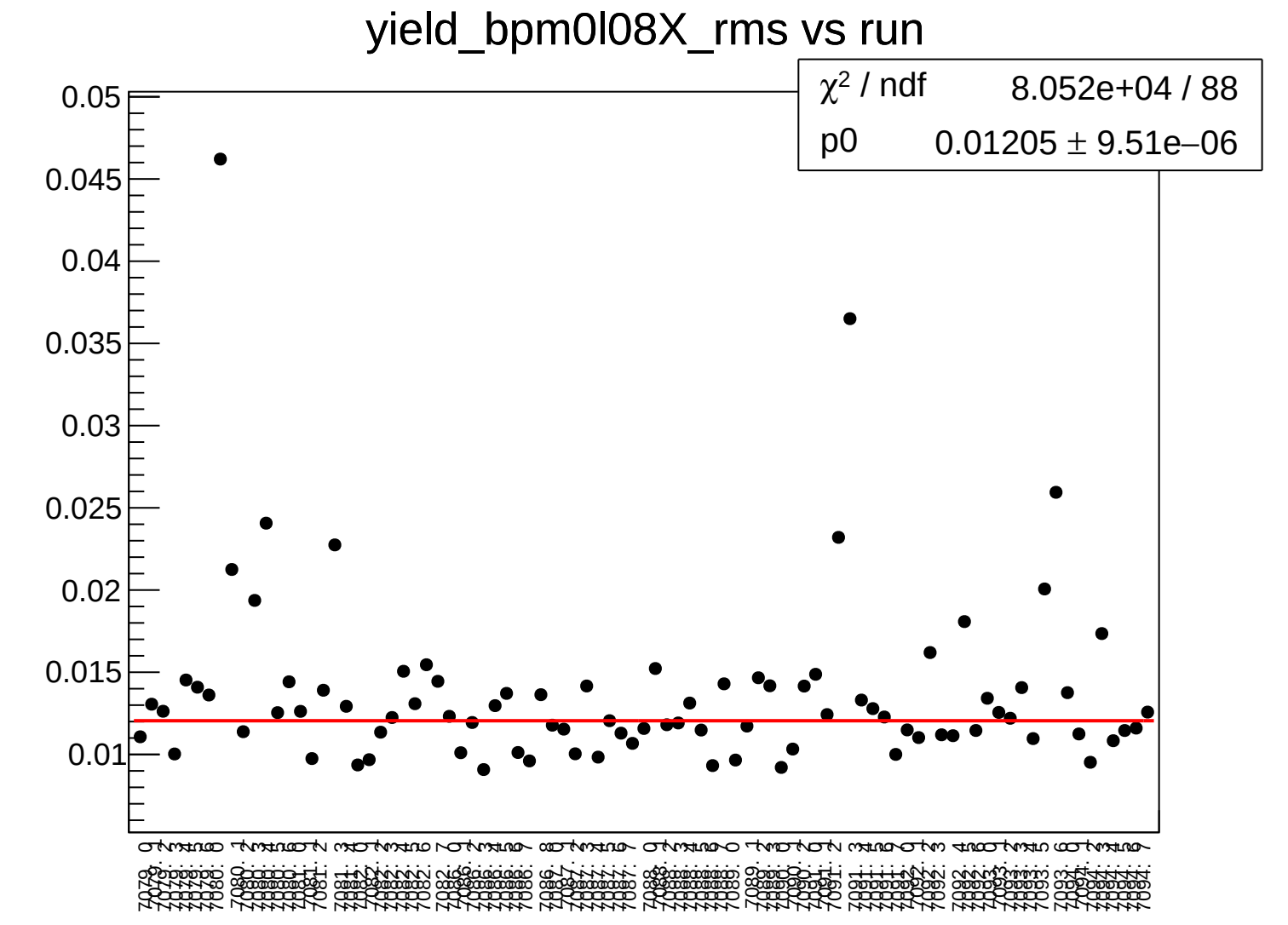

yield_bpm0l07X_rms vs run
χ² / ndf 8.673e+04 / 88
p0 0.01329 ± 1.051e–05
0.05
0.04
0.03
0.02
0.01

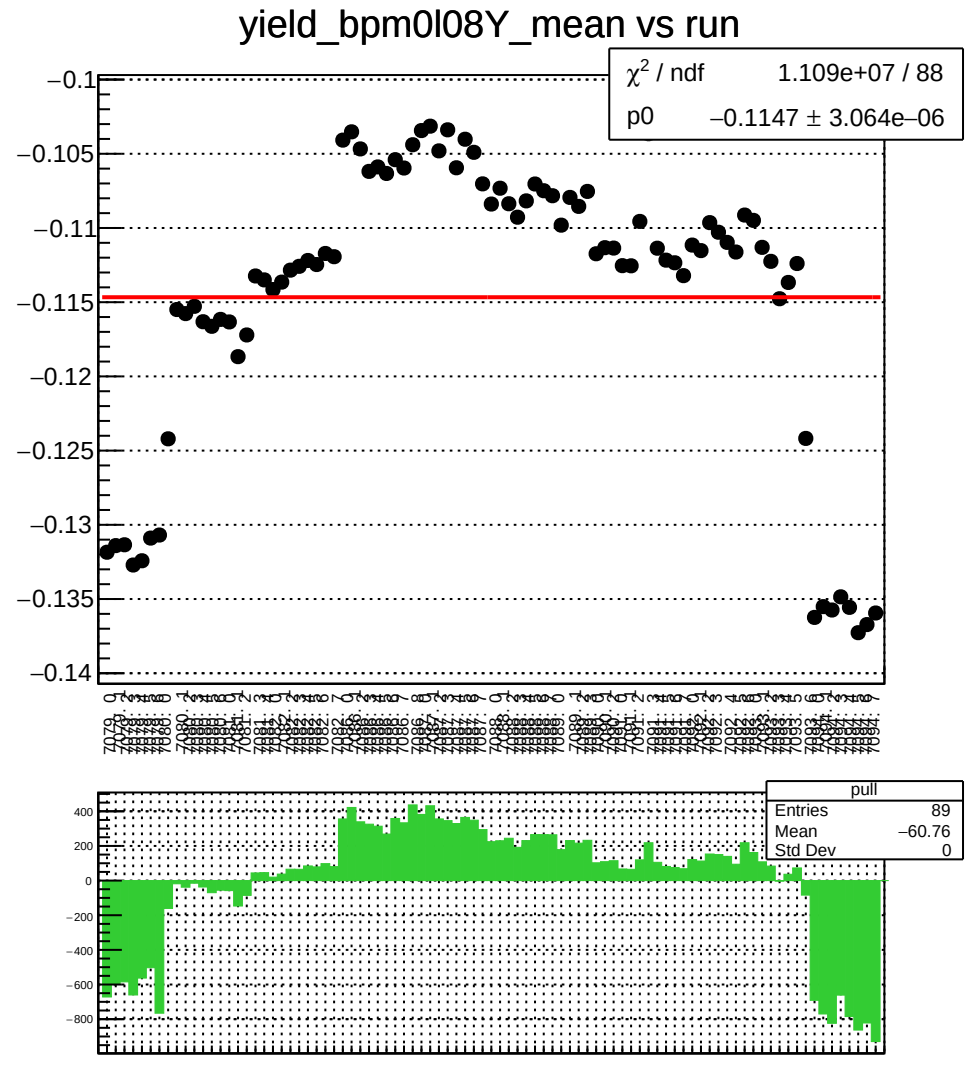

yield_bpm0l07Y_mean vs run
χ² / ndf 1.414e+07 / 88
p0 0.2562 ± 2.513e−06
0.27
0.265
0.26
0.255
0.25
0.245
0.24
0.235
0.23
pull
Entries 89
Mean −1.02e+04
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 89
Mean −3.066
Std Dev 2.678
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

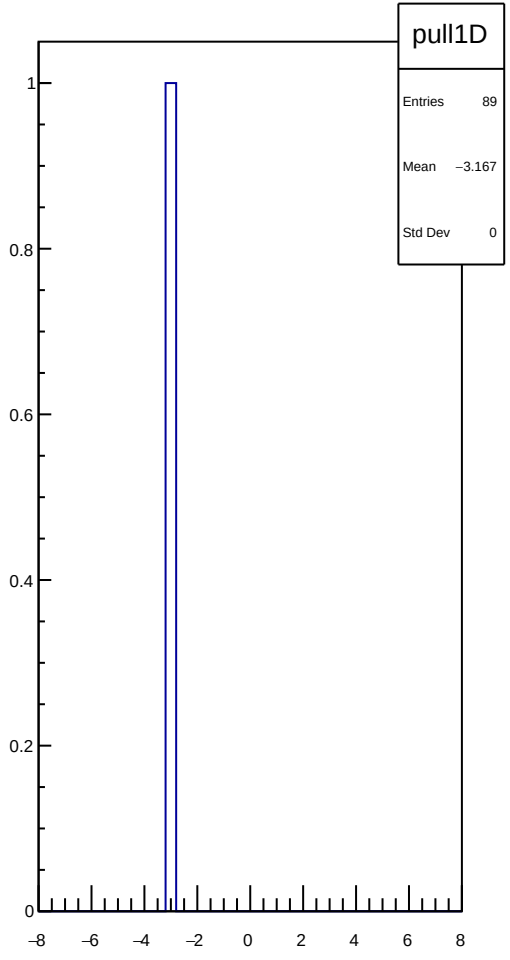

yield_bpm0l07Y_rms vs run
χ² / ndf 1.929e+04 / 88
p0 0.002295 ± 1.777e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

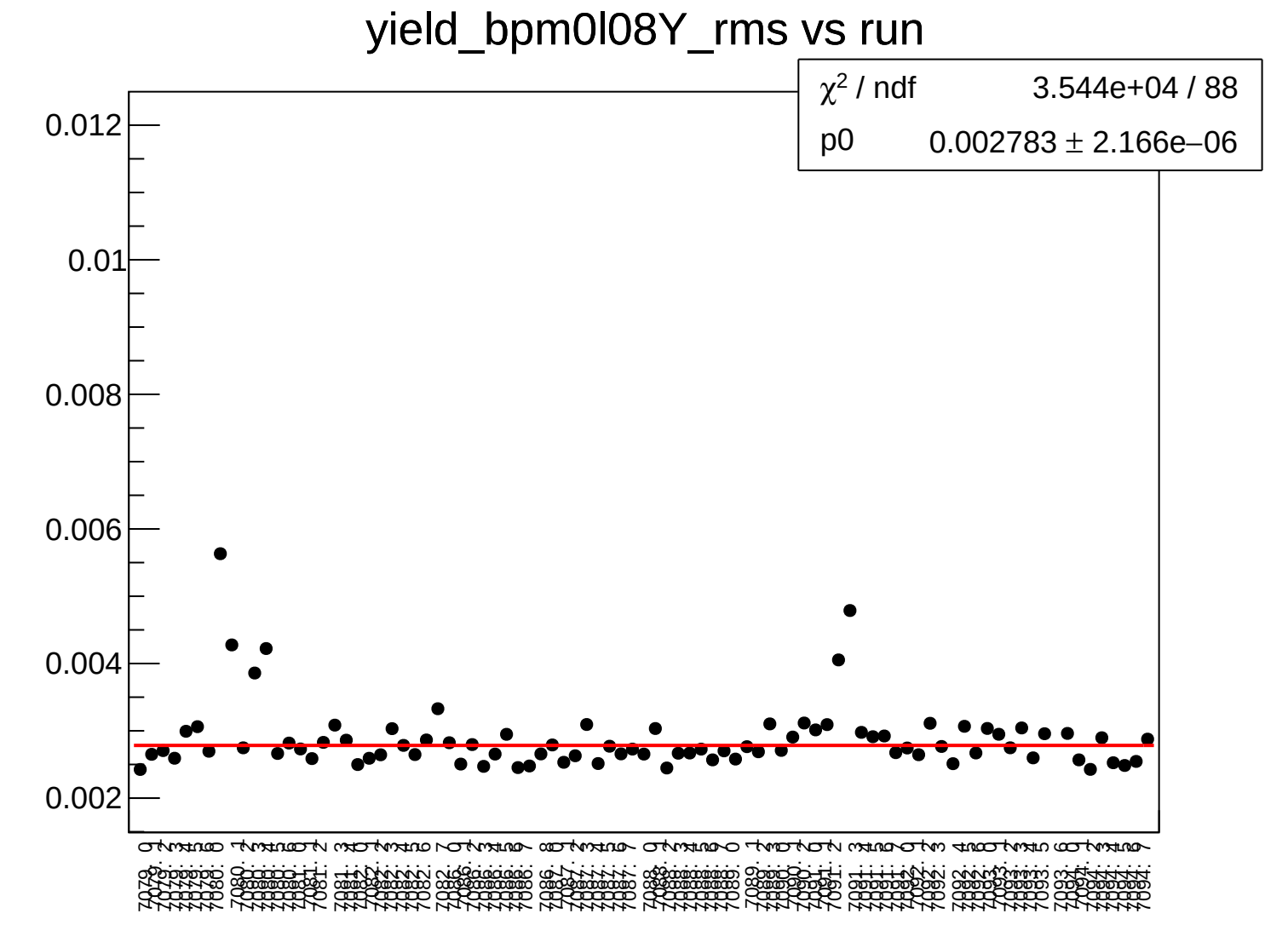

yield_bpm0l08X_mean vs run
χ² / ndf 1.529e+07 / 88
p0 −0.3173 ± 1.345e−05
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 89
Mean −2031
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

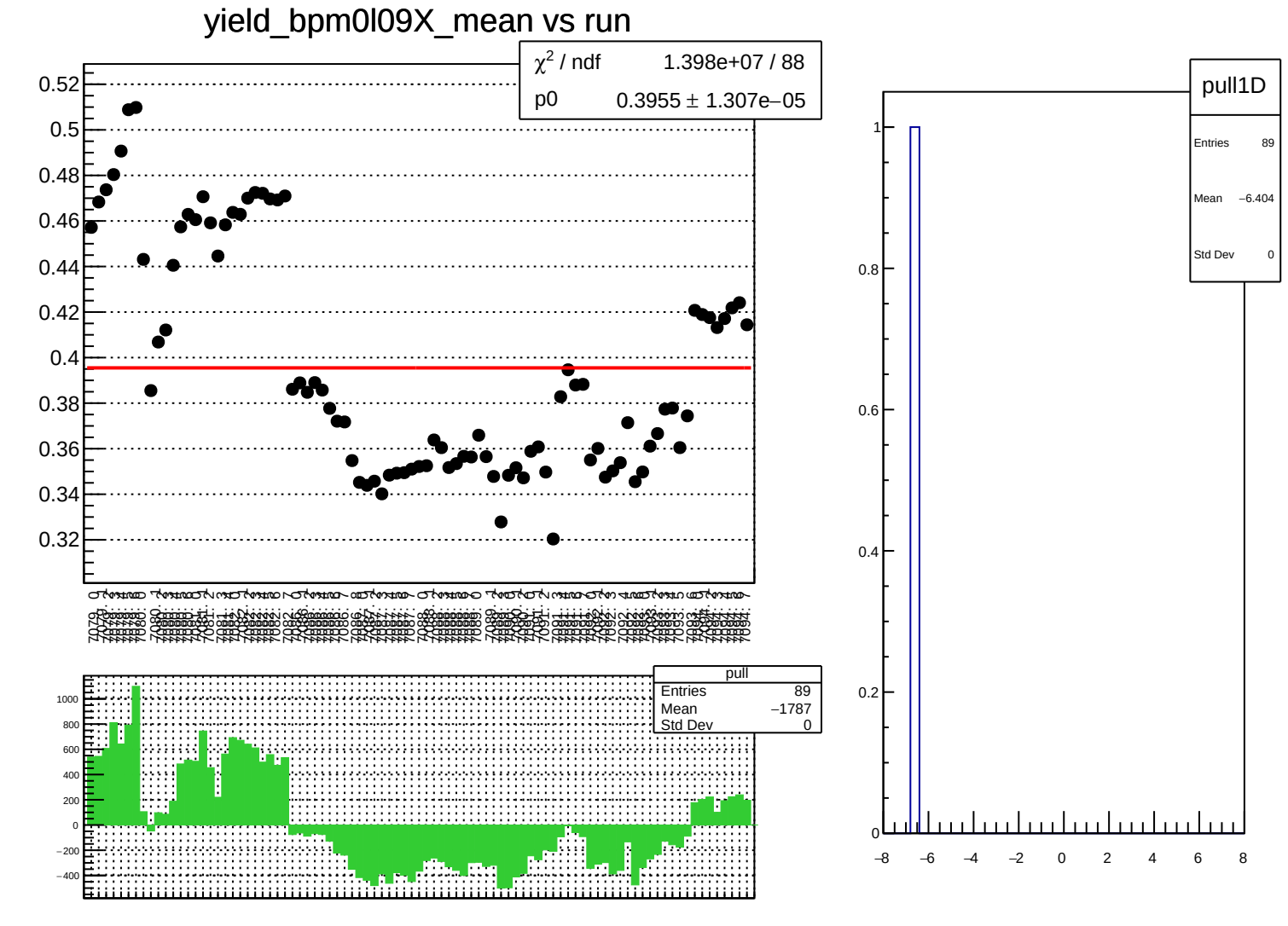

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

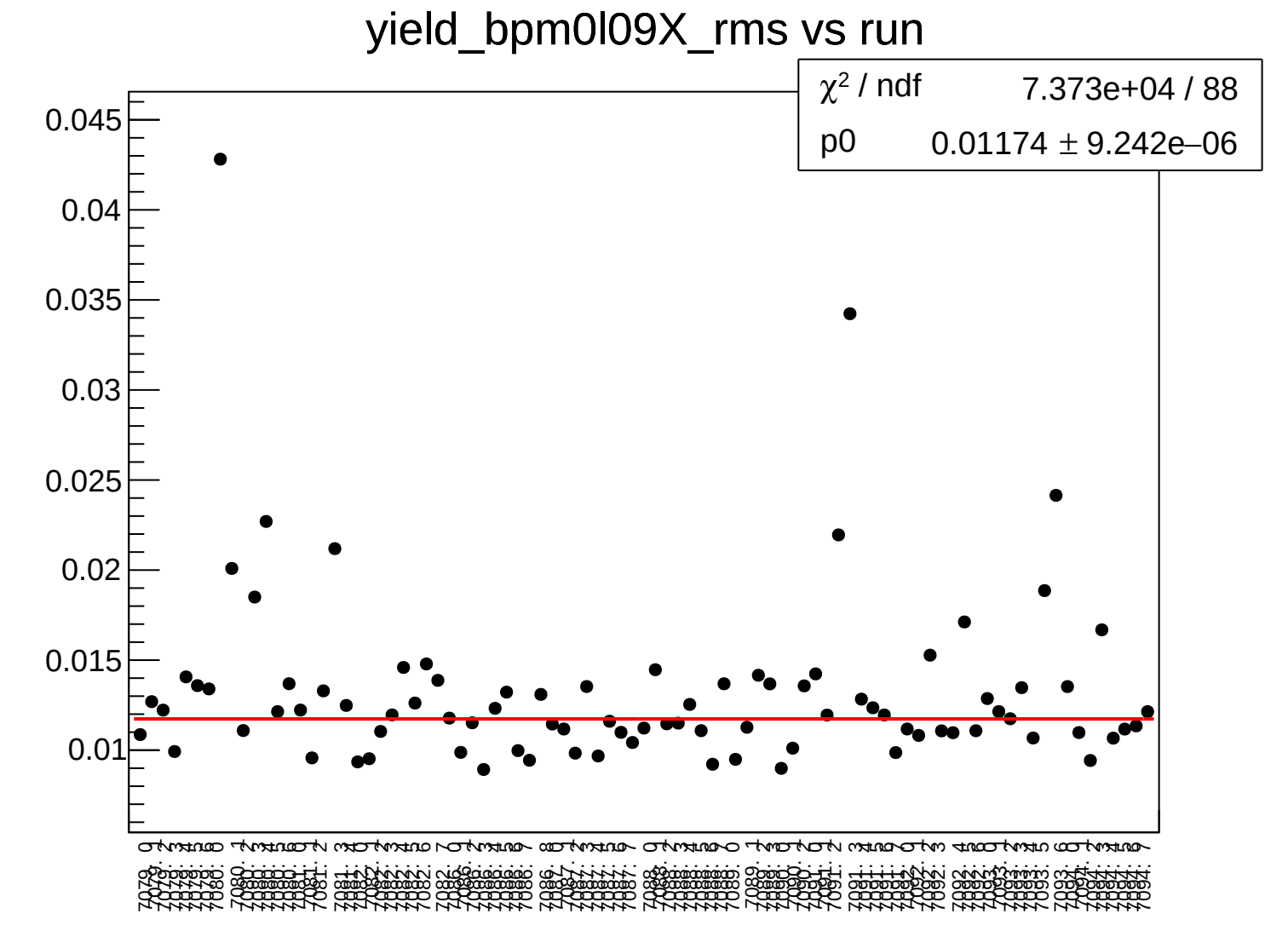

yield_bpm0l08X_rms vs run
χ² / ndf 8.052e+04 / 88
p0 0.01205 ± 9.51e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

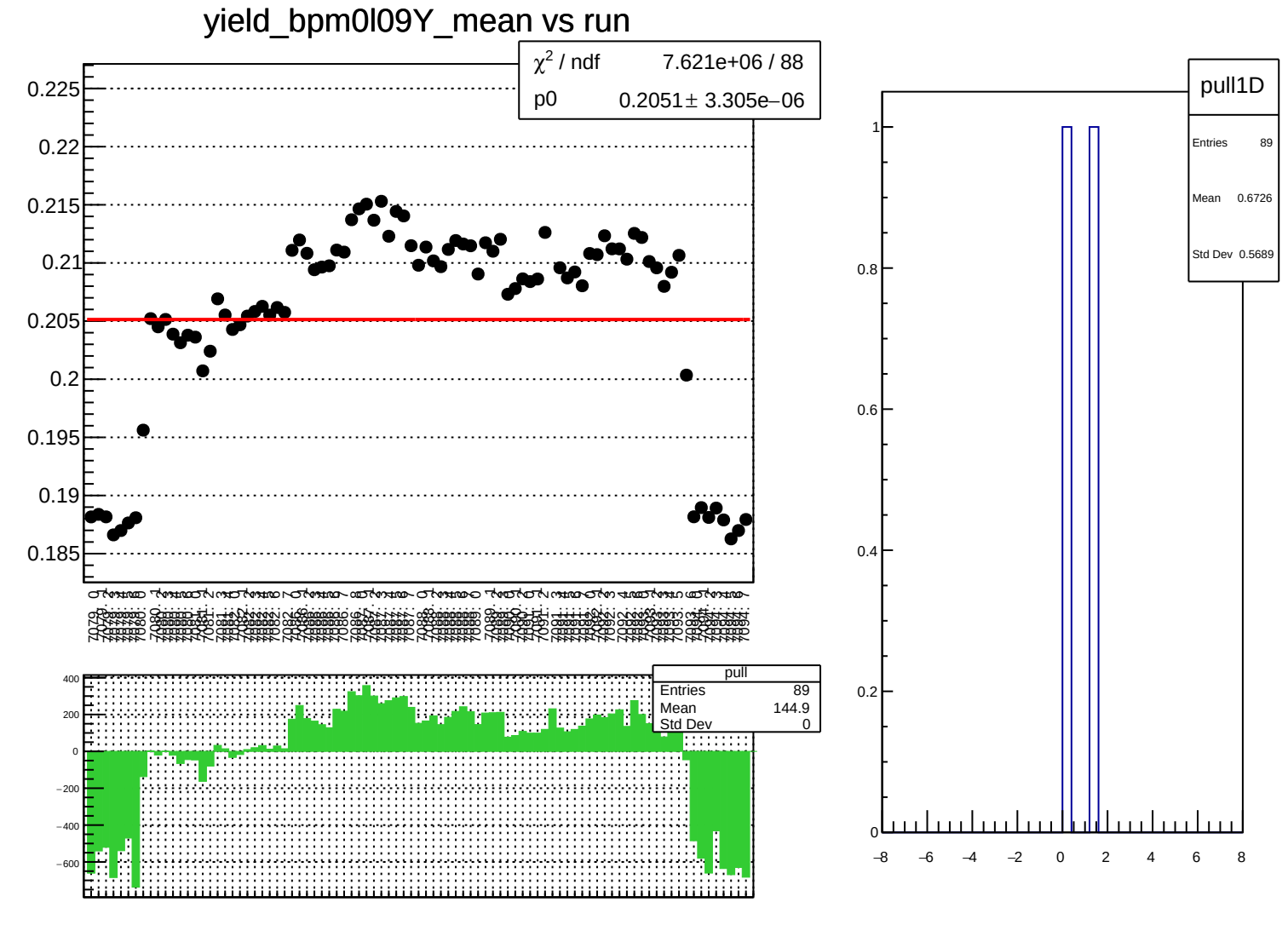

yield_bpm0l08Y_mean vs run
χ² / ndf 1.109e+07 / 88
p0 −0.1147 ± 3.064e−06
pull
Entries 89
Mean −60.76
Std Dev 0

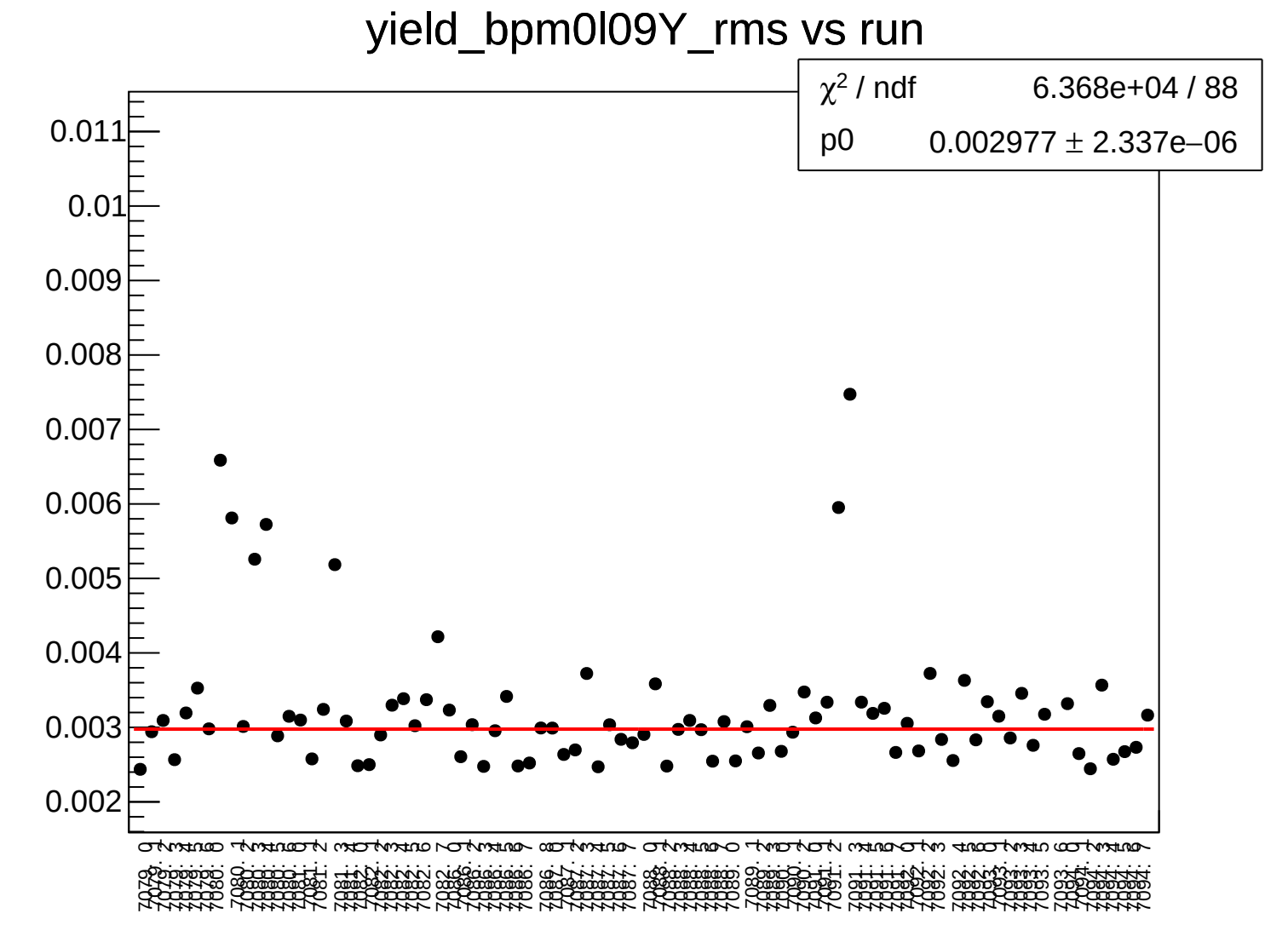

pull1D
Entries 89
Mean −3.167
Std Dev 0

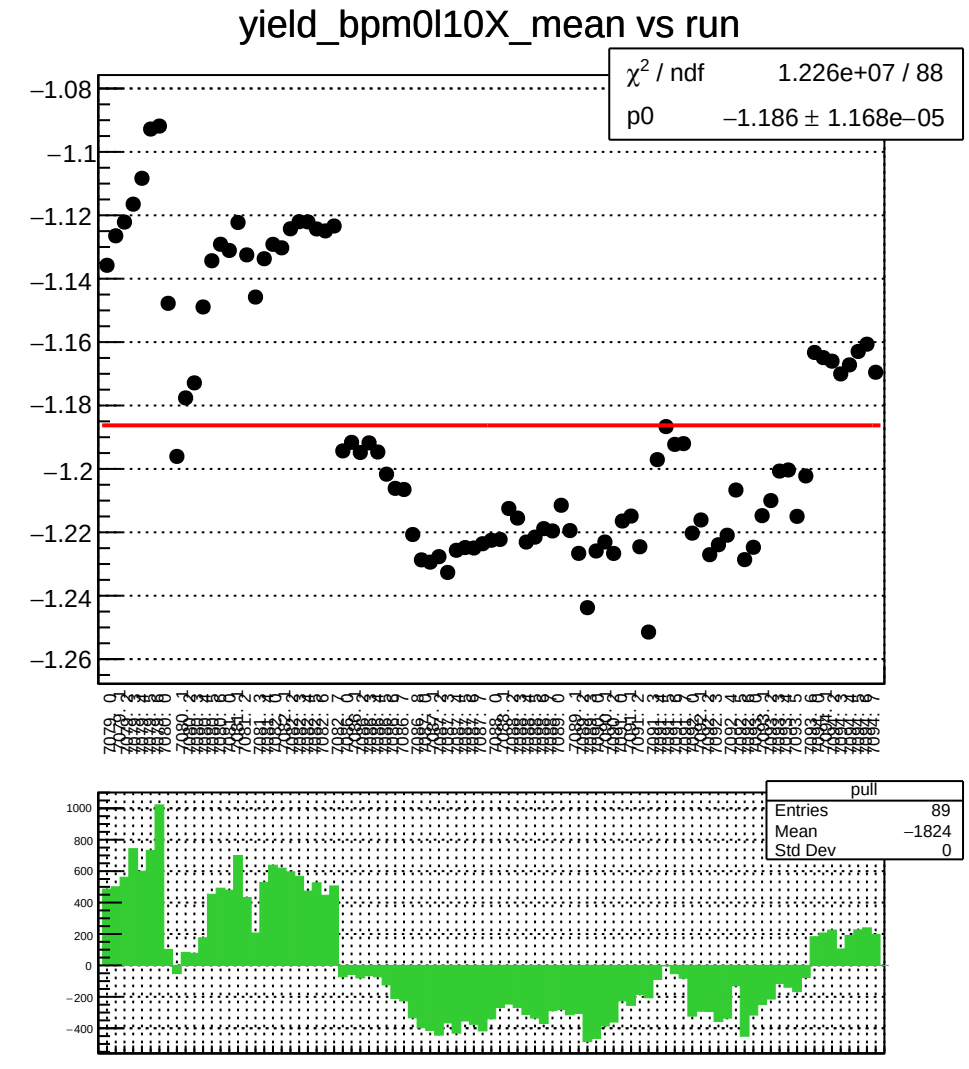

yield_bpm0l08Y_rms vs run
χ² / ndf 3.544e+04 / 88
p0 0.002783 ± 2.166e−06
0.012
0.01
0.008
0.006
0.004
0.002

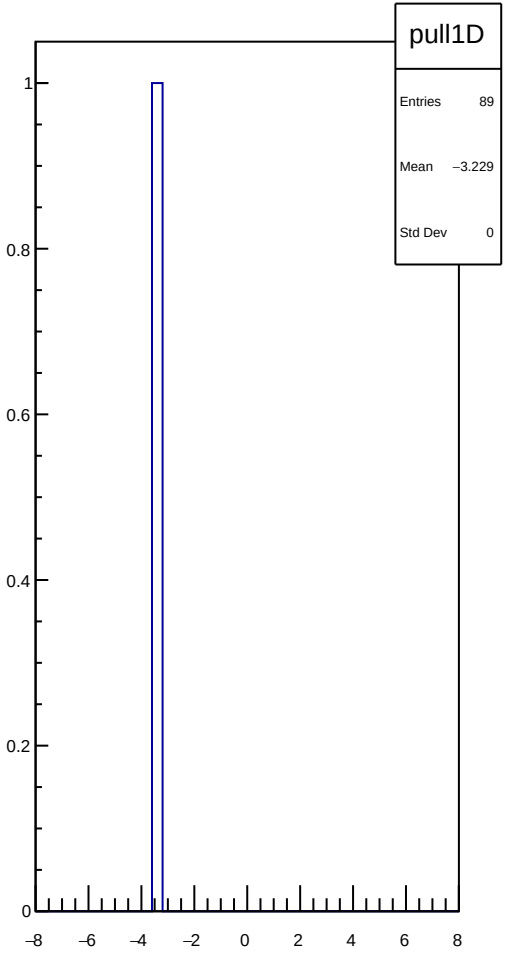

yield_bpm0l09X_mean vs run
χ² / ndf 1.398e+07 / 88
p0 0.3955 ± 1.307e−05
pull
Entries 89
Mean −1787
Std Dev 0
pull1D
Entries 89
Mean −6.404
Std Dev 0

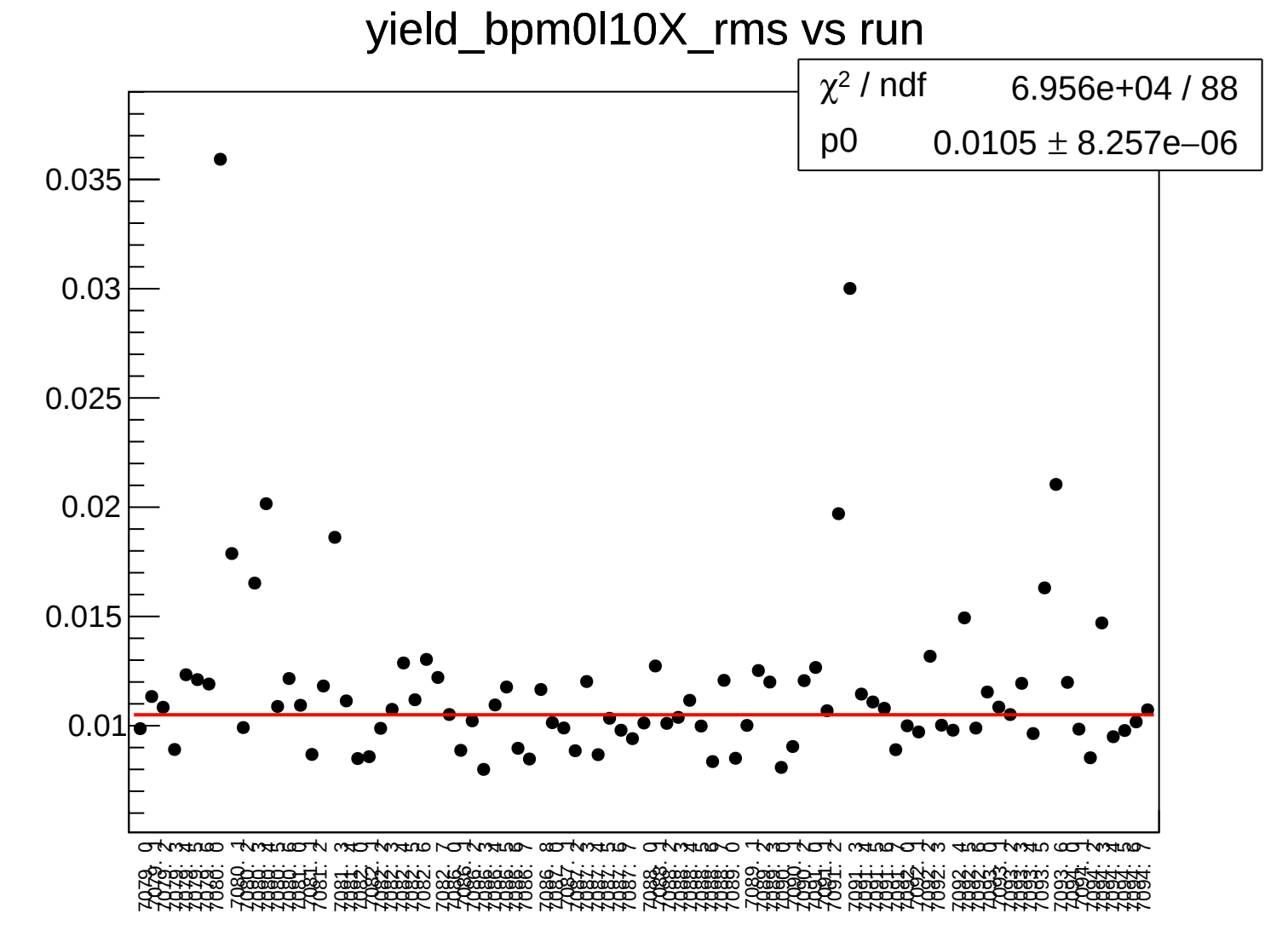

yield_bpm0l09X_rms vs run
χ² / ndf 7.373e+04 / 88
p0 0.01174 ± 9.242e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

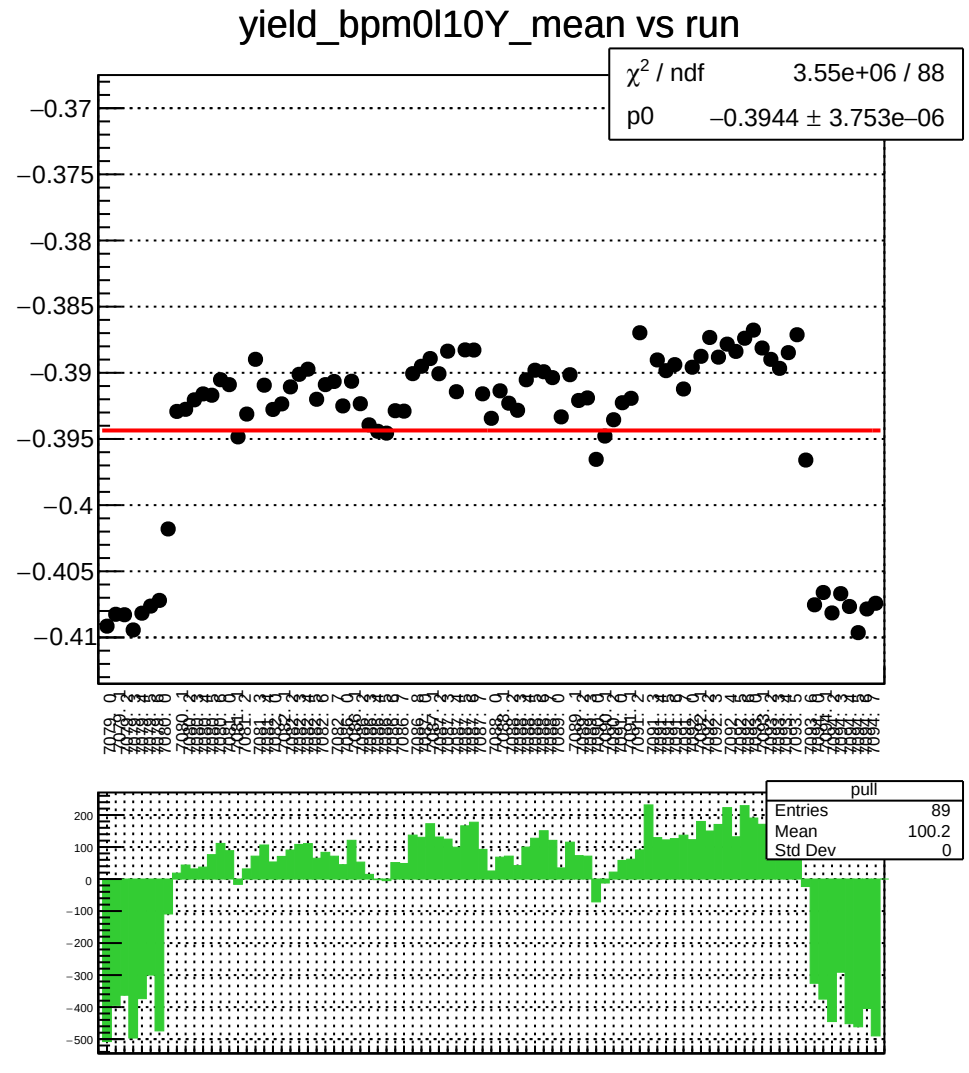

yield_bpm0l09Y_mean vs run
χ² / ndf 7.621e+06 / 88
p0 0.2051 ± 3.305e−06
0.225
0.22
0.215
0.21
0.205
0.2
0.195
0.19
0.185
pull
Entries 89
Mean 144.9
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean 0.6726
Std Dev 0.5689
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

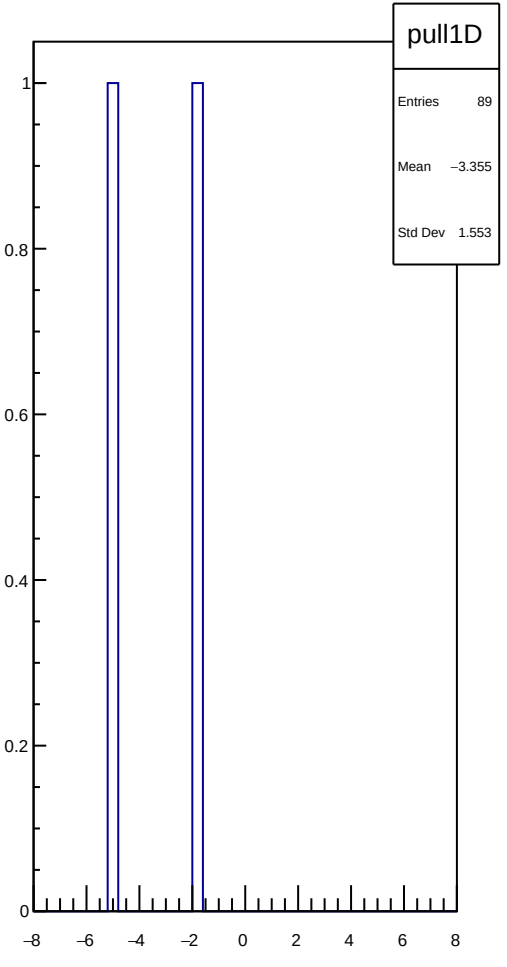

yield_bpm0l09Y_rms vs run
χ^2 / ndf 6.368e+04 / 88
p0 0.002977 ± 2.337e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

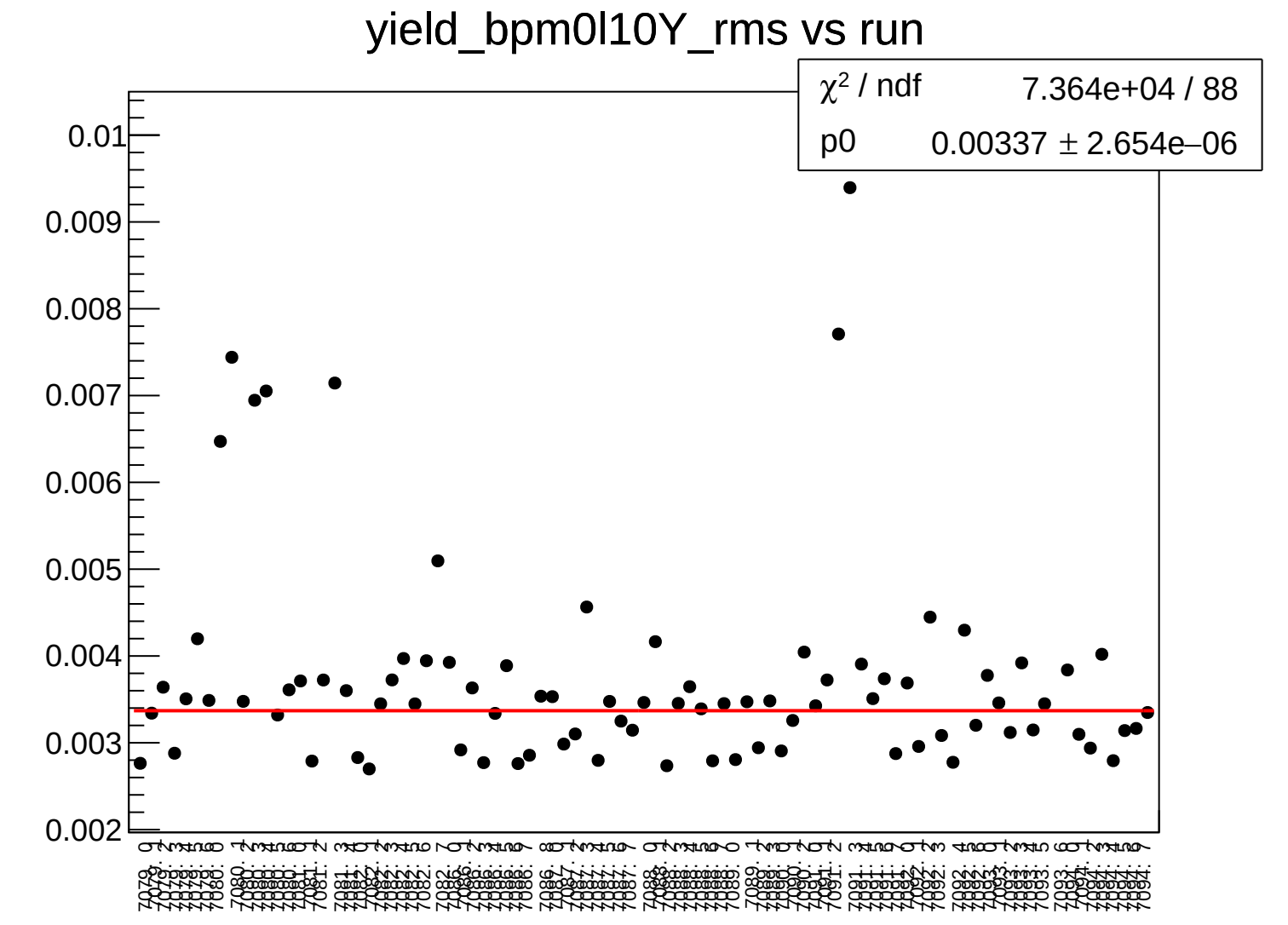

yield_bpm0l10X_mean vs run
χ² / ndf 1.226e+07 / 88
p0 −1.186 ± 1.168e−05
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
pull
Entries 89
Mean −1824
Std Dev 0
1000
800
600
400
200
0
−200
−400

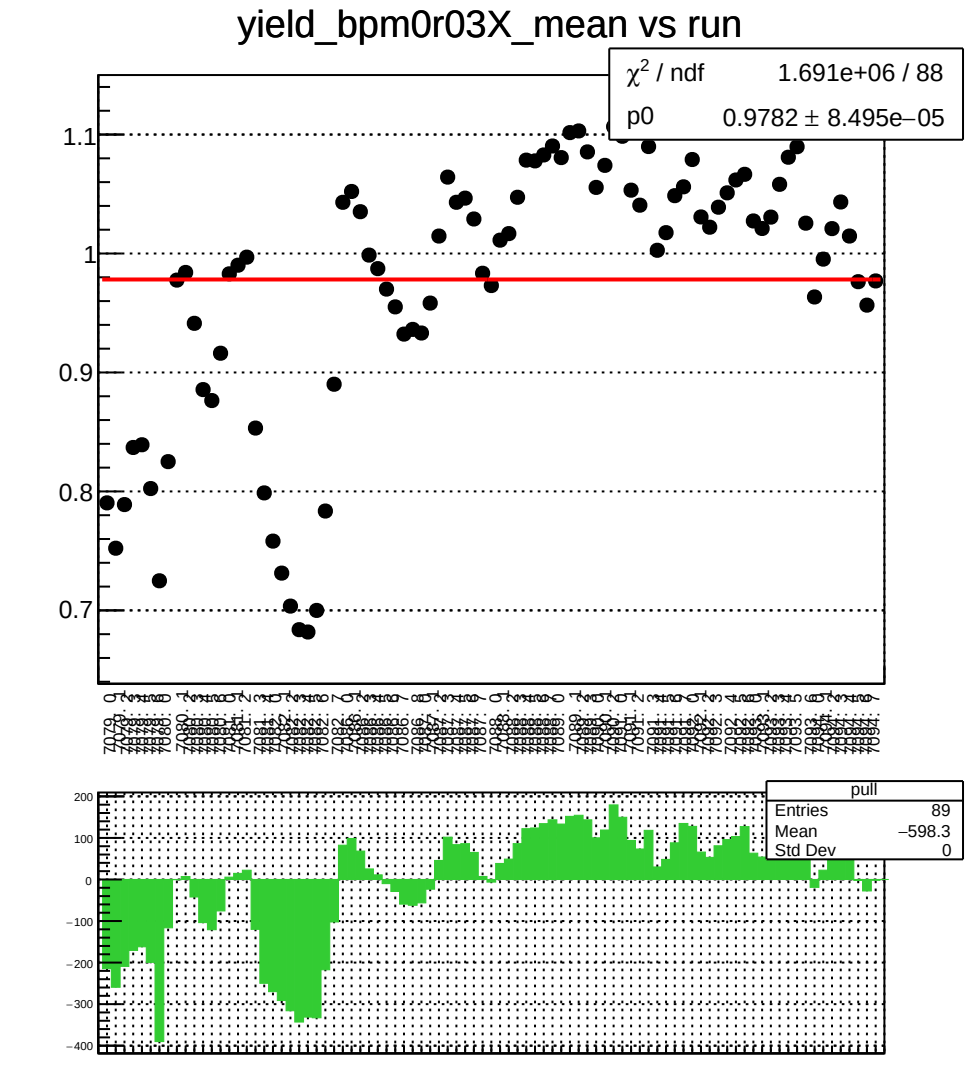

pull1D
Entries 89
Mean −3.229
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

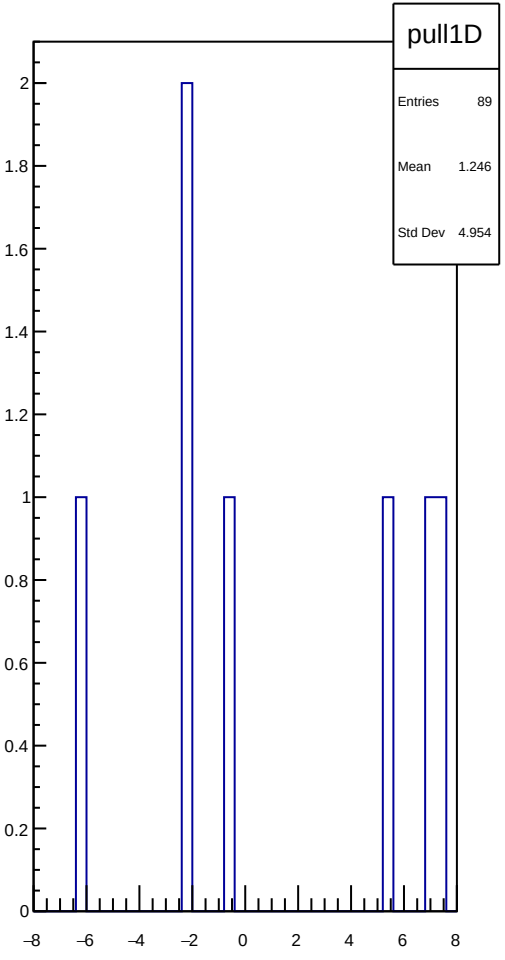

yield_bpm0l10X_rms vs run
χ² / ndf 6.956e+04 / 88
p0 0.0105 ± 8.257e−06
0.035
0.03
0.025
0.02
0.015
0.01

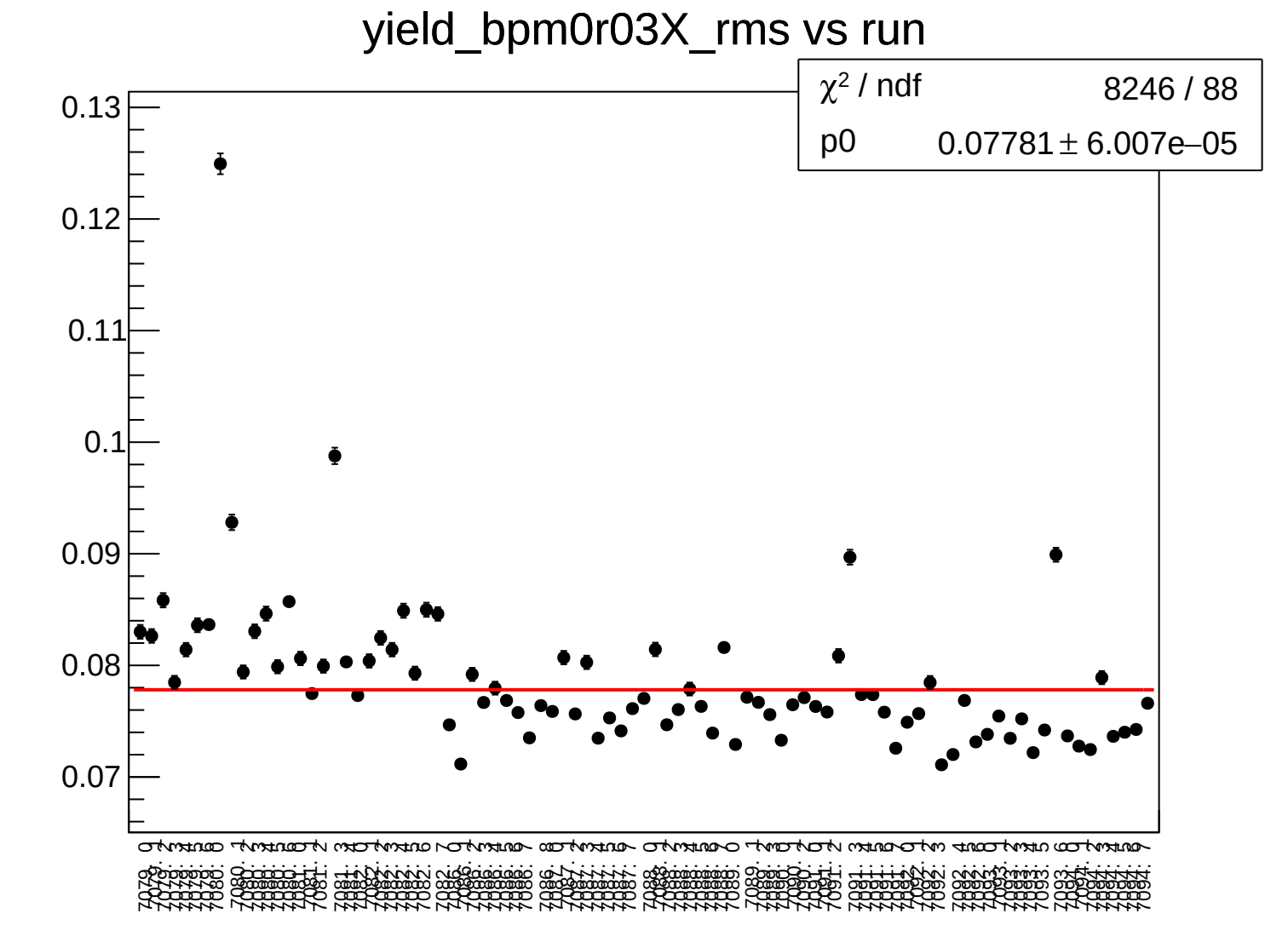

yield_bpm0l10Y_mean vs run
χ² / ndf 3.55e+06 / 88
p0 −0.3944 ± 3.753e−06
−0.37
−0.375
−0.38
−0.385
−0.39
−0.395
−0.4
−0.405
−0.41
pull
Entries 89
Mean 100.2
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

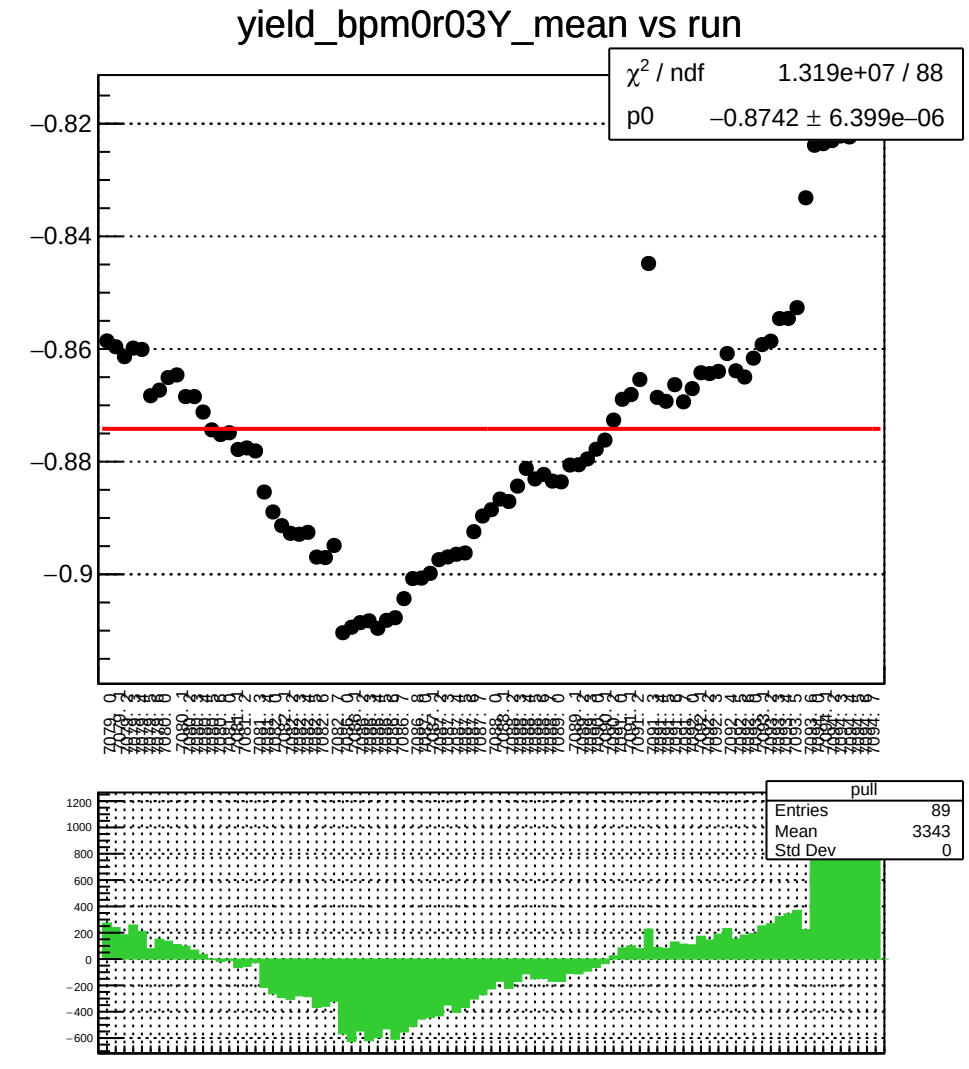

pull1D
Entries 89
Mean −3.355
Std Dev 1.553
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

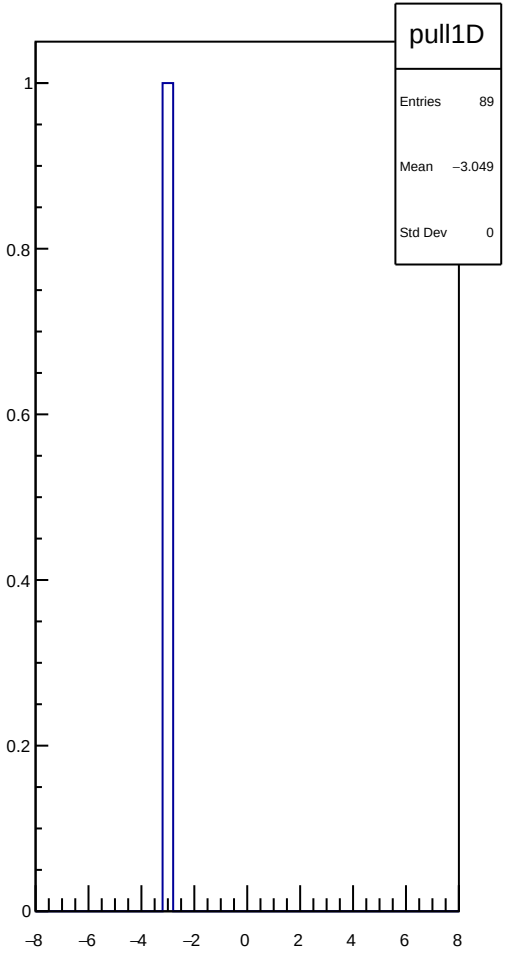

yield_bpm0l10Y_rms vs run
χ² / ndf 7.364e+04 / 88
p0 0.00337 ± 2.654e–06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

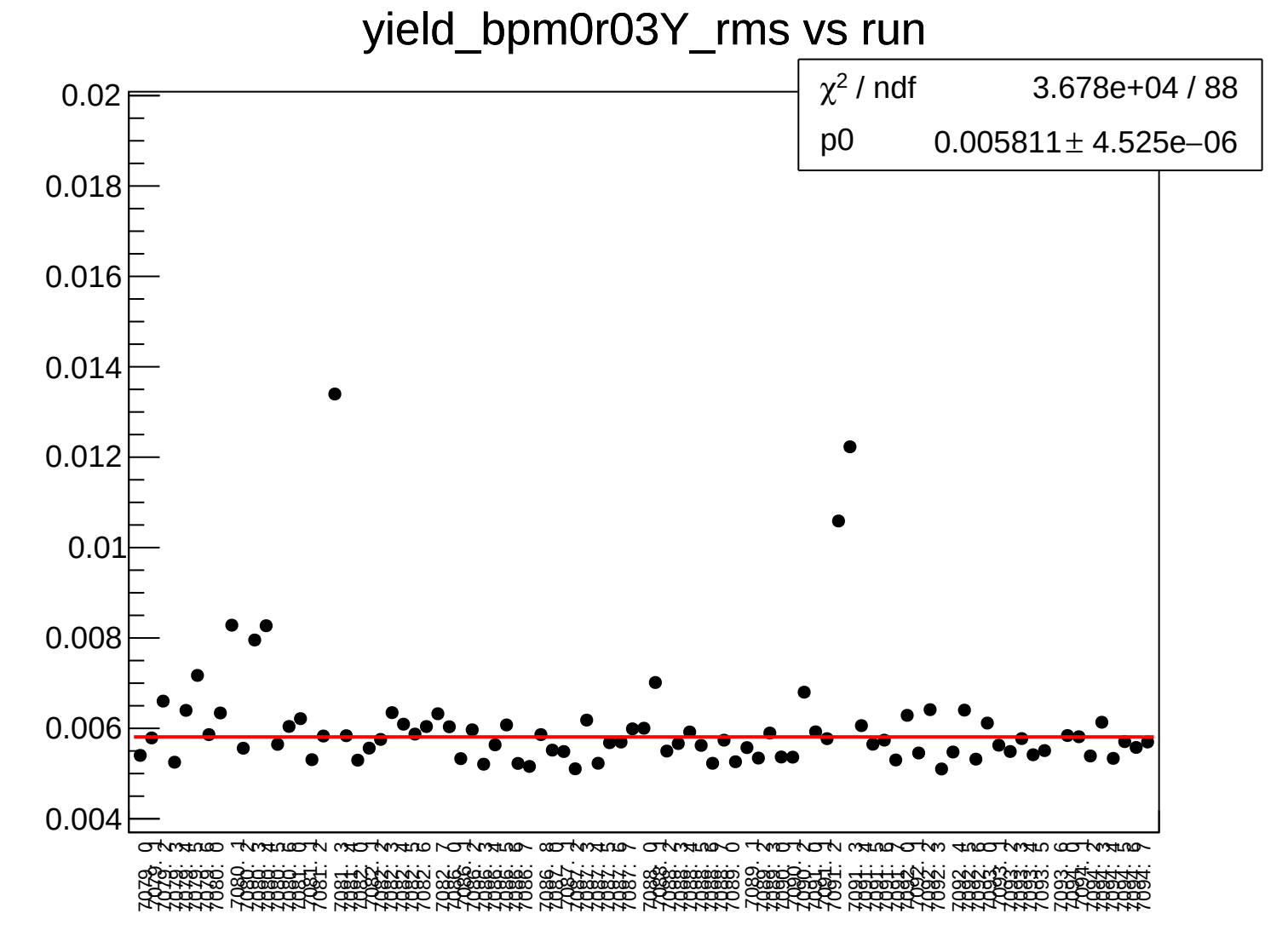

yield_bpm0r03X_mean vs run
χ² / ndf 1.691e+06 / 88
p0 0.9782 ± 8.495e−05
1.1
1
0.9
0.8
0.7
pull
Entries 89
Mean −598.3
Std Dev 0
200
100
0
−100
−200
−300
−400

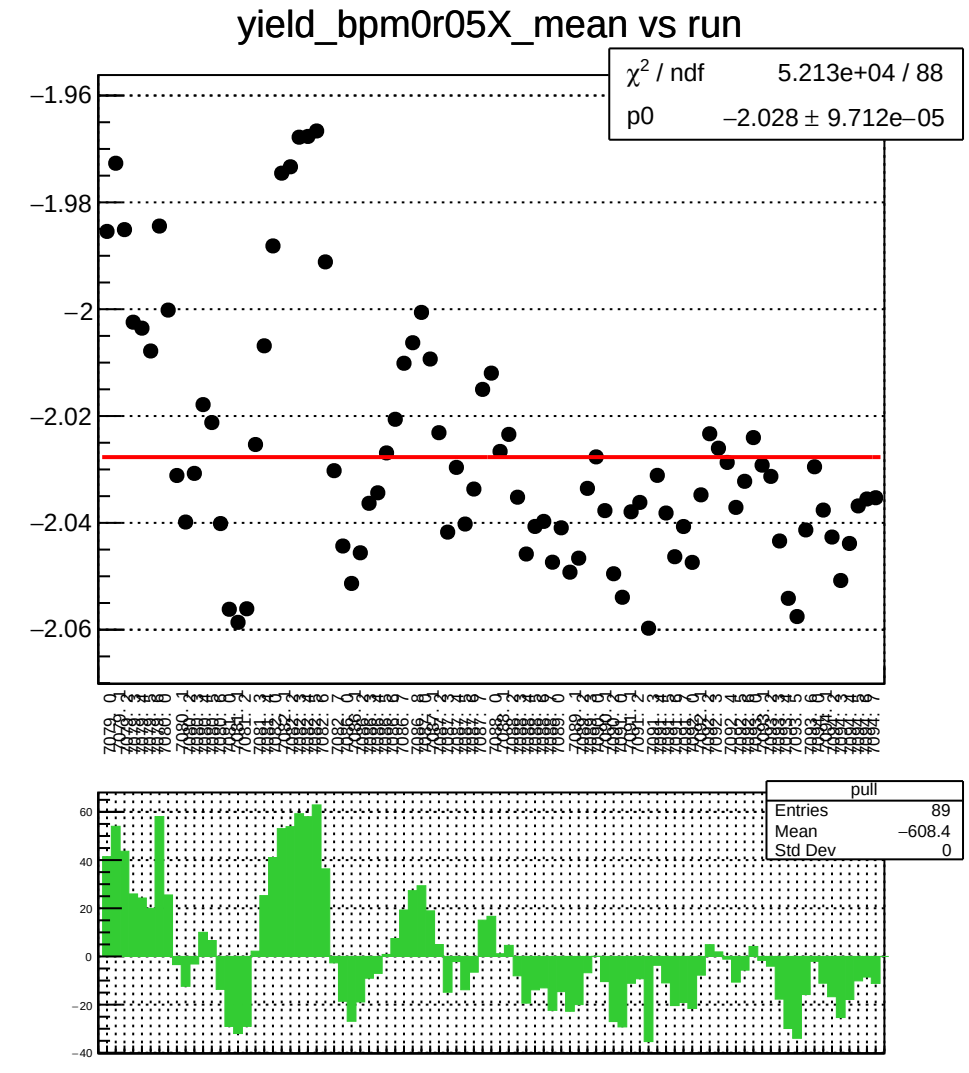

pull1D
Entries 89
Mean 1.246
Std Dev 4.954
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

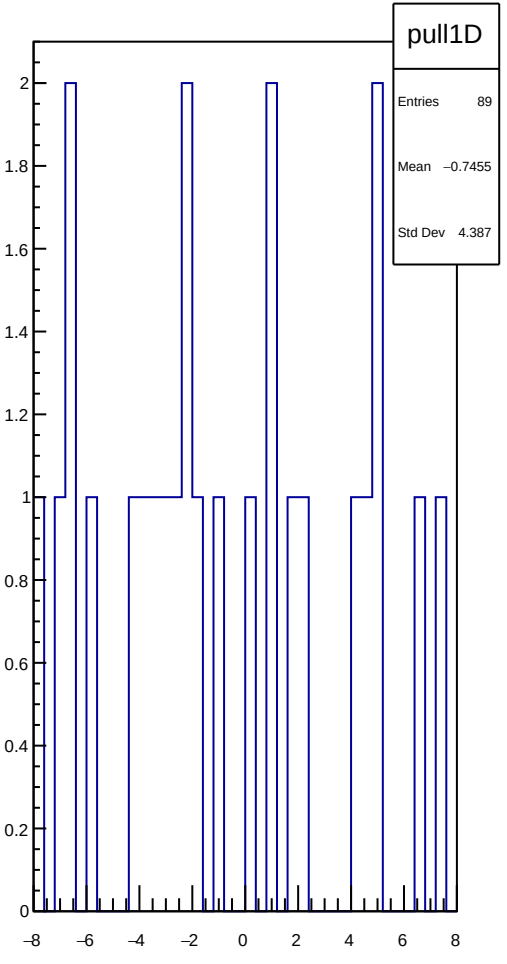

yield_bpm0r03X_rms vs run
χ² / ndf 8246 / 88
p0 0.07781 ± 6.007e–05
0.13
0.12
0.11
0.1
0.09
0.08
0.07

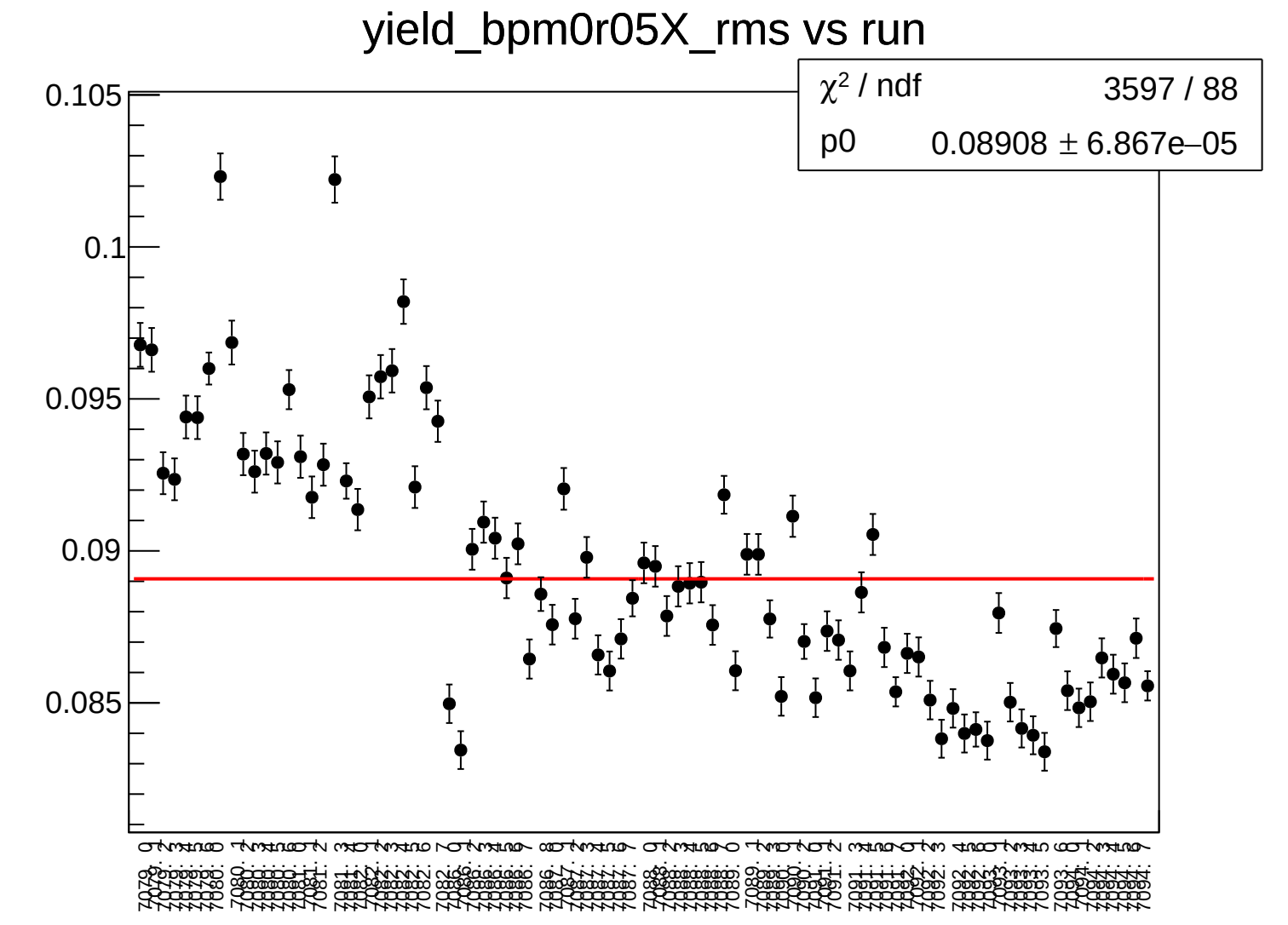

yield_bpm0r03Y_mean vs run
χ² / ndf 1.319e+07 / 88
p0 −0.8742 ± 6.399e−06
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 89
Mean 3343
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

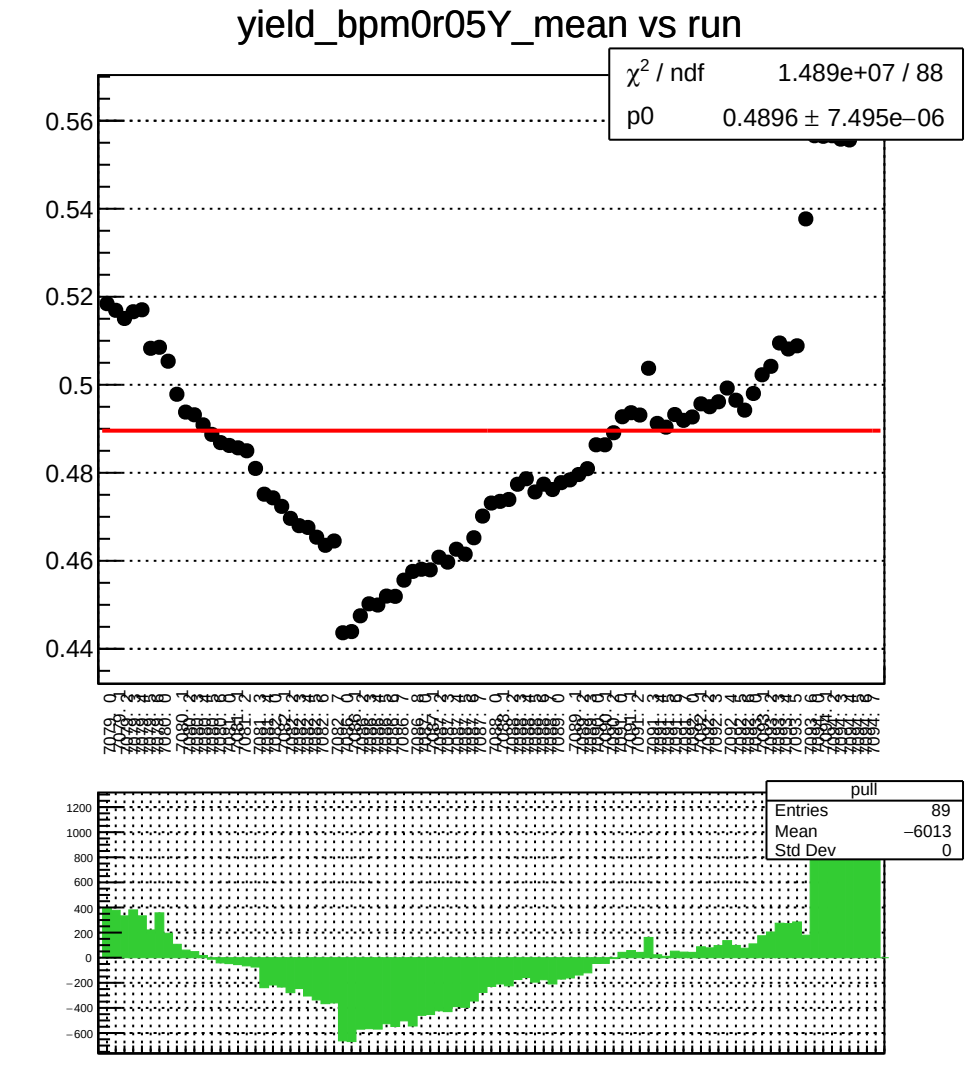

pull1D
Entries 89
Mean −3.049
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

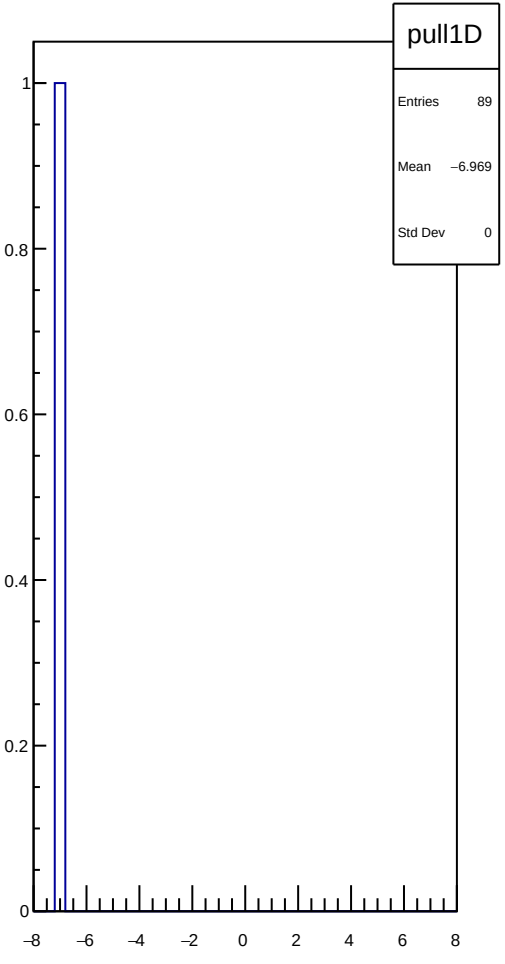

yield_bpm0r03Y_rms vs run
χ² / ndf 3.678e+04 / 88
p0 0.005811 ± 4.525e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

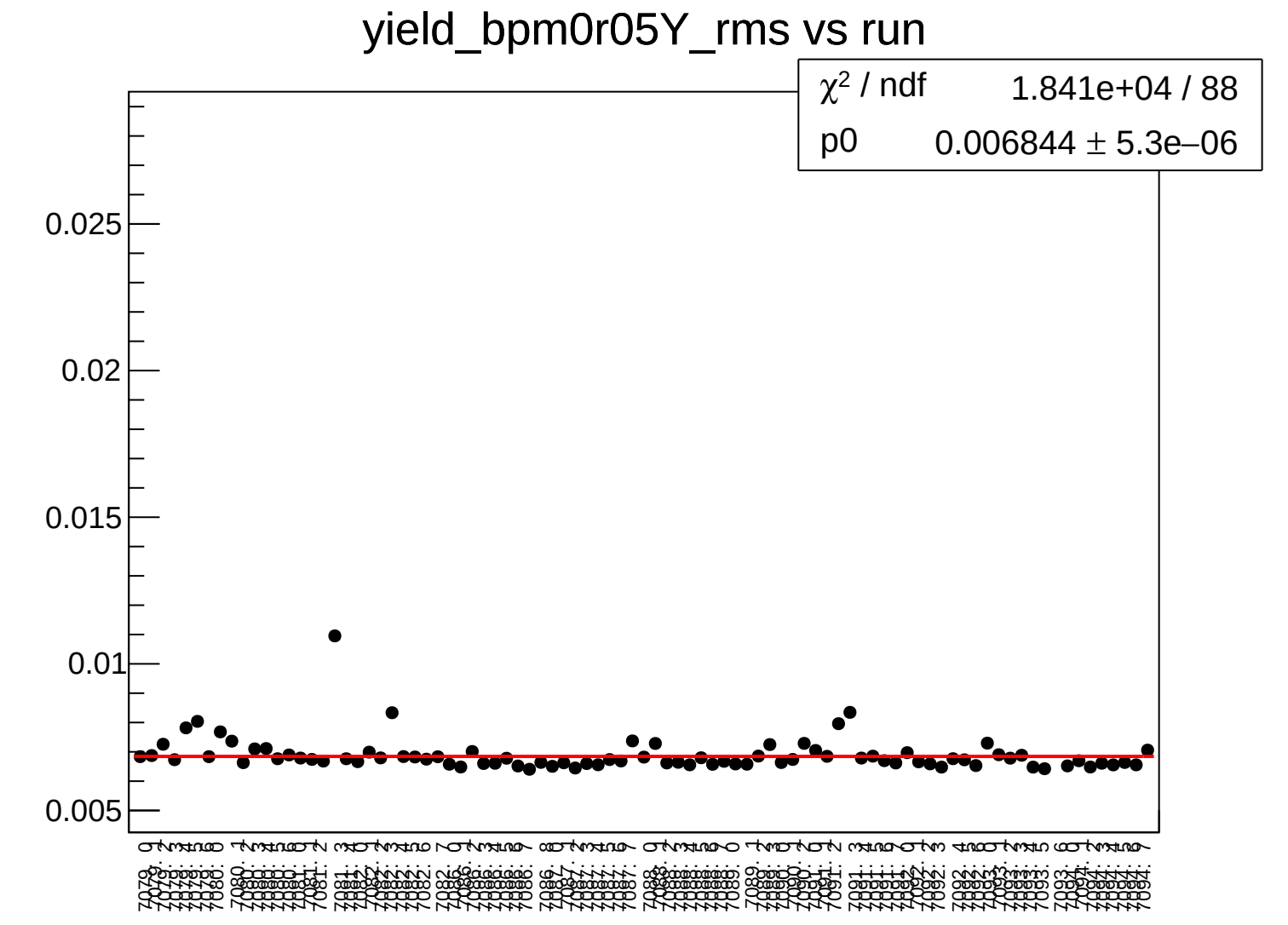

yield_bpm0r05X_mean vs run
χ² / ndf 5.213e+04 / 88
p0 −2.028 ± 9.712e−05
−1.96
−1.98
−2
−2.02
−2.04
−2.06
pull
Entries 89
Mean −608.4
Std Dev 0
60
40
20
0
−20
−40

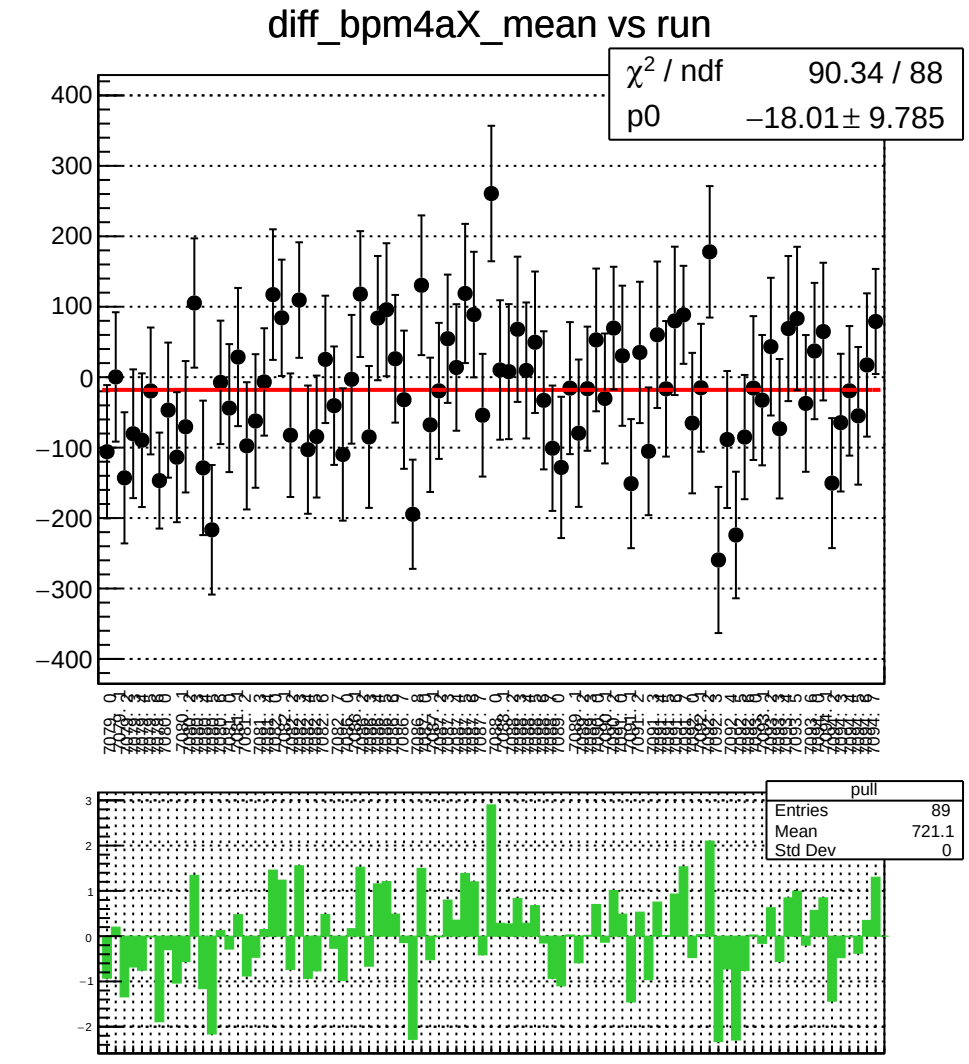

pull1D
Entries 89
Mean −0.7455
Std Dev 4.387
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

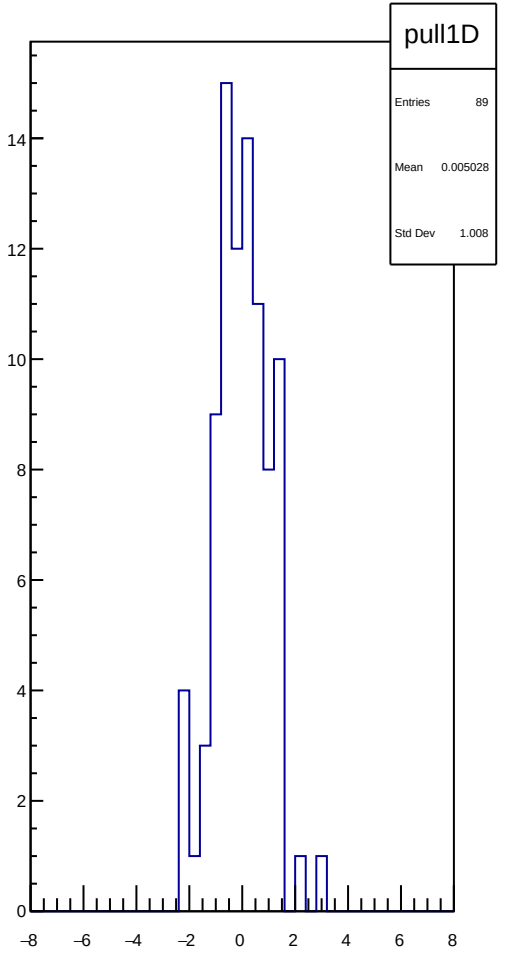

yield_bpm0r05X_rms vs run
χ² / ndf 3597 / 88
p0 0.08908 ± 6.867e–05
0.105
0.1
0.095
0.09
0.085

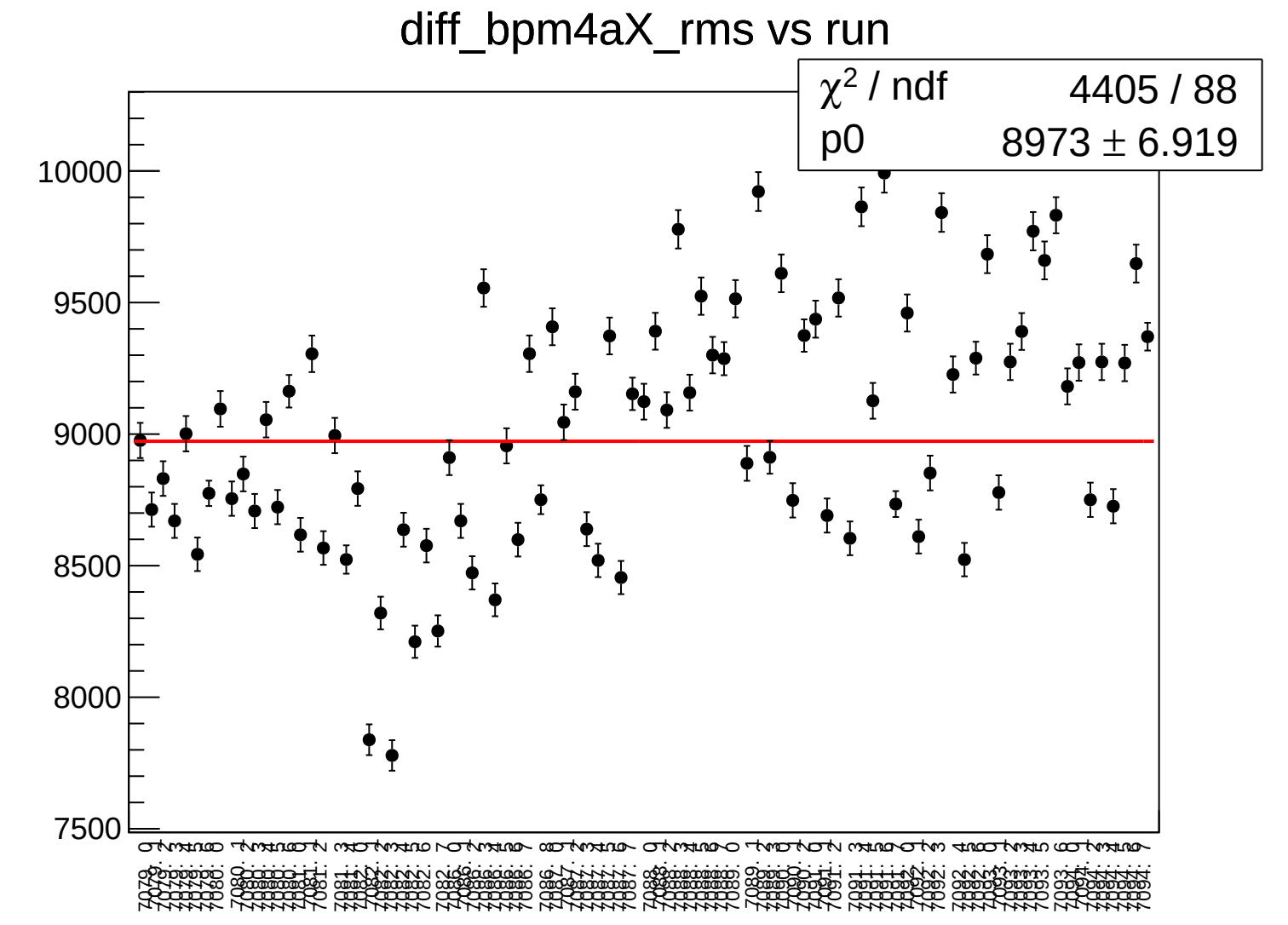

yield_bpm0r05Y_mean vs run
χ² / ndf 1.489e+07 / 88
p0 0.4896 ± 7.495e−06
0.56
0.54
0.52
0.5
0.48
0.46
0.44
pull
Entries 89
Mean −6013
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

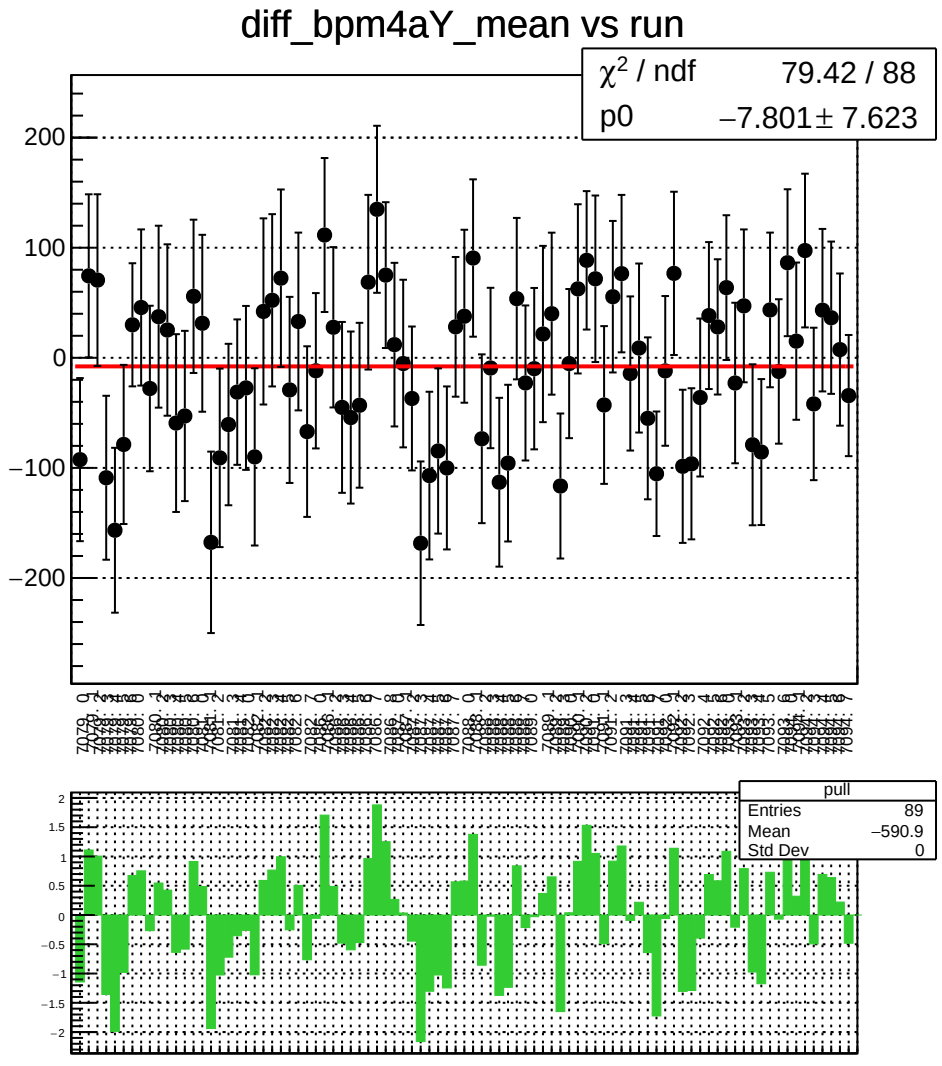

pull1D
Entries 89
Mean −6.969
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

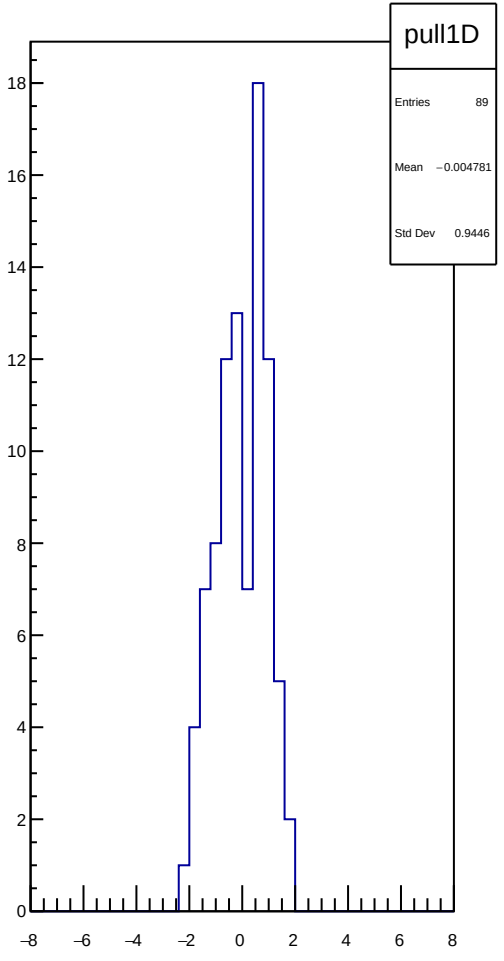

yield_bpm0r05Y_rms vs run
χ² / ndf 1.841e+04 / 88
p0 0.006844 ± 5.3e−06
0.025
0.02
0.015
0.01
0.005

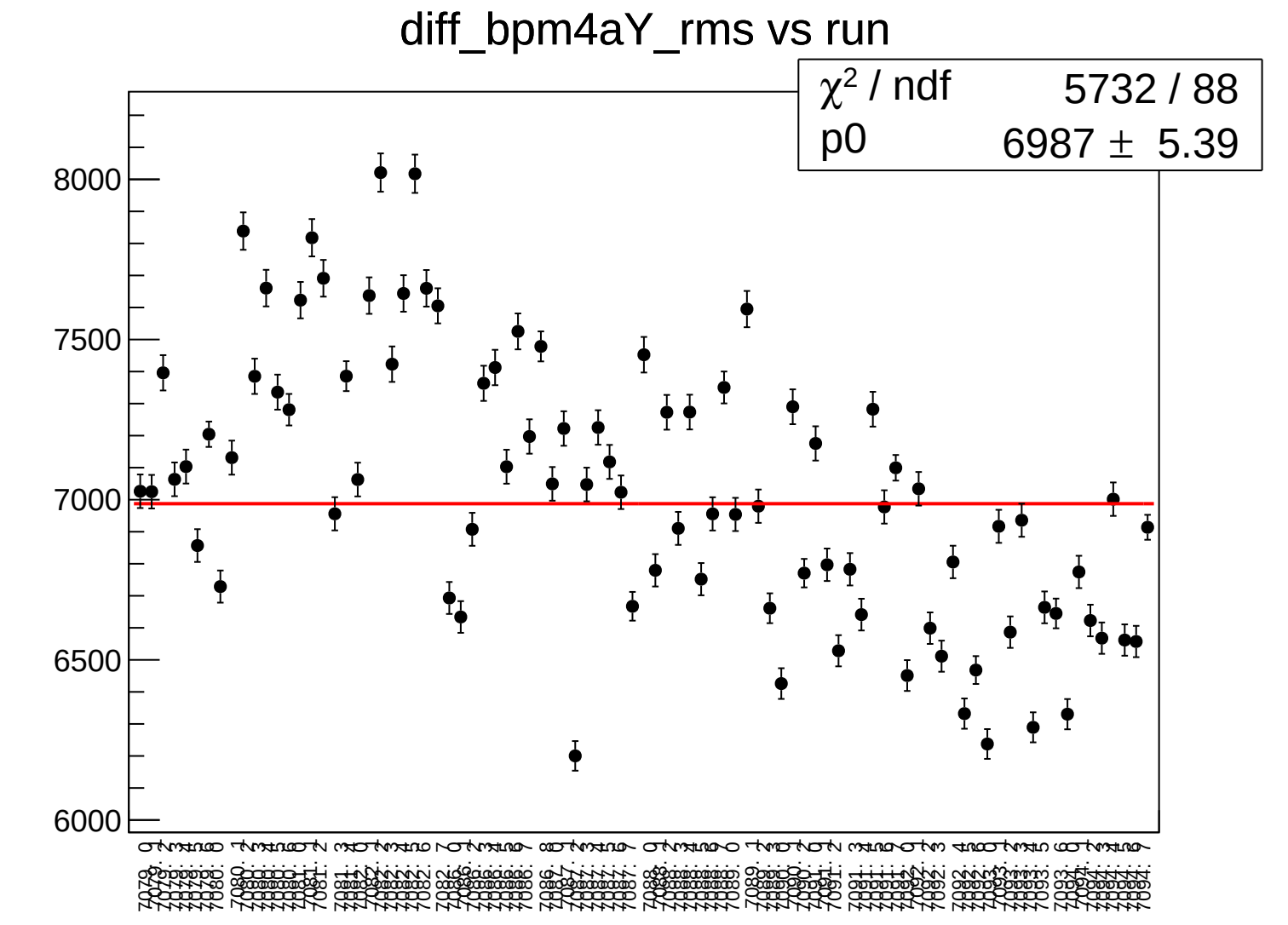

diff_bpm4aX_mean vs run
χ² / ndf 90.34 / 88
p0 −18.01± 9.785
pull
Entries 89
Mean 721.1
Std Dev 0

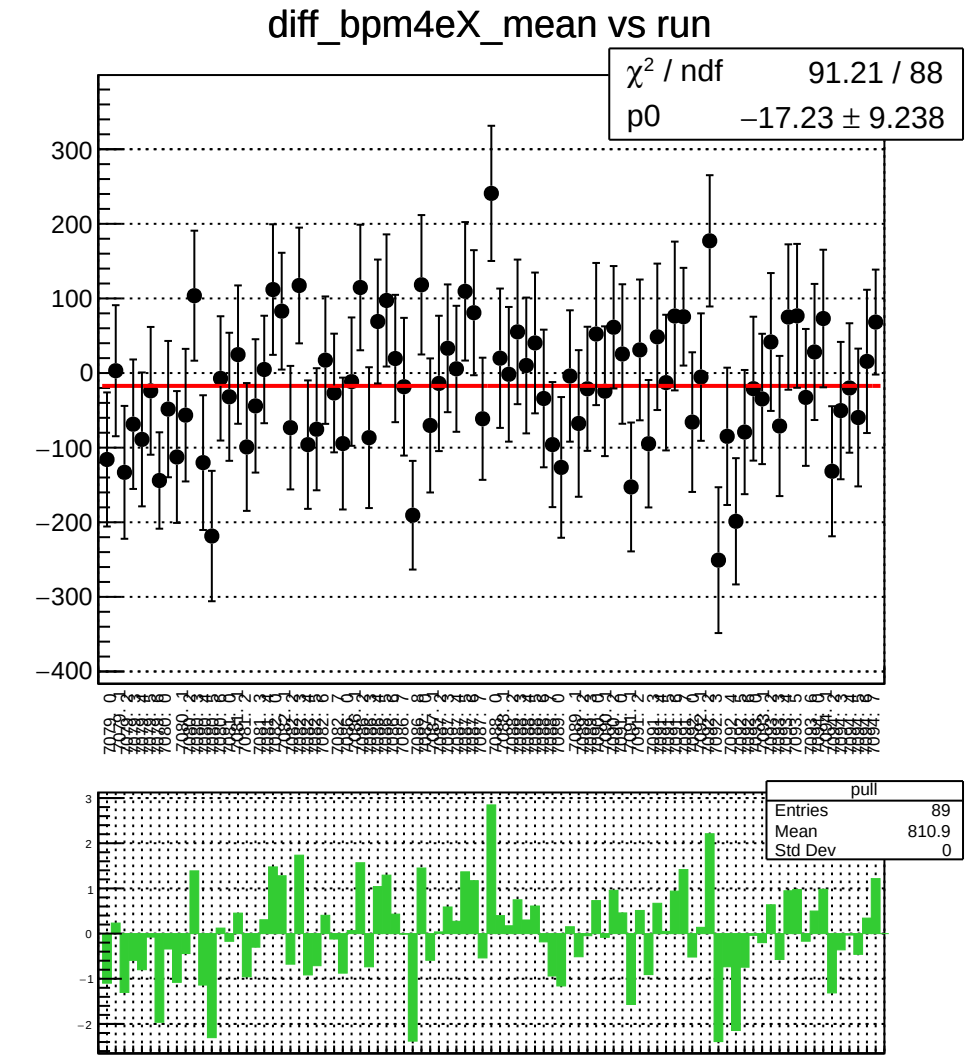

pull1D
Entries 89
Mean 0.005028
Std Dev 1.008

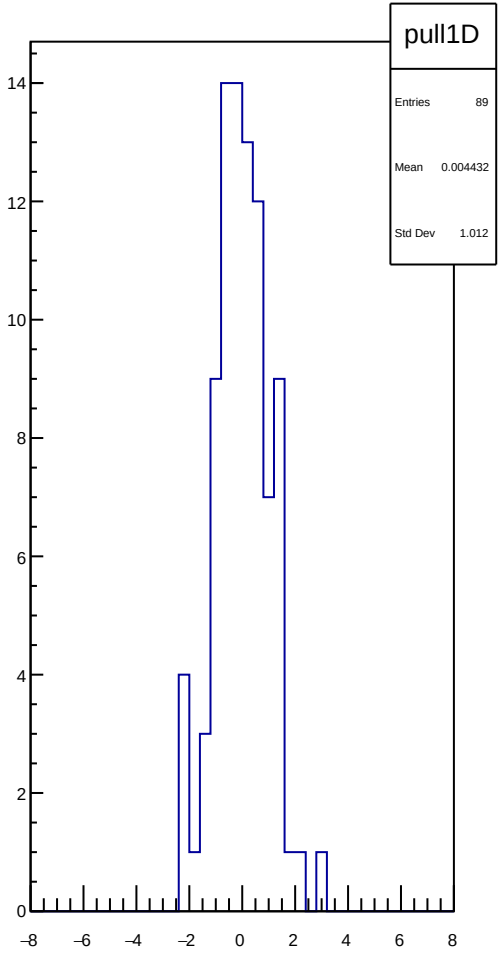

diff_bpm4aX_rms vs run
χ² / ndf 4405 / 88
p0 8973 ± 6.919
10000
9500
9000
8500
8000
7500

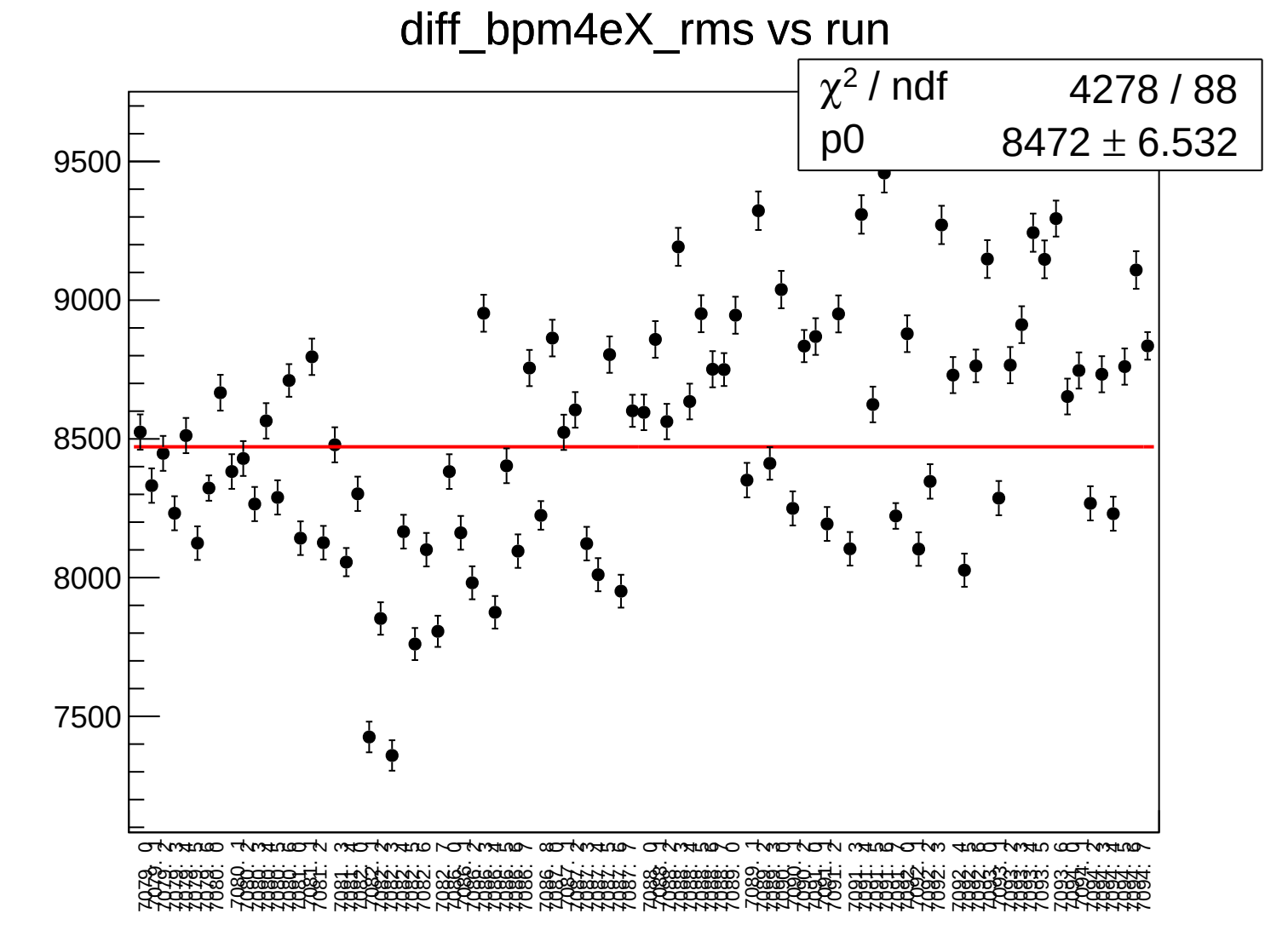

diff_bpm4aY_mean vs run
χ² / ndf 79.42 / 88
p0 −7.801 ± 7.623
200
100
0
−100
−200
pull
Entries 89
Mean −590.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

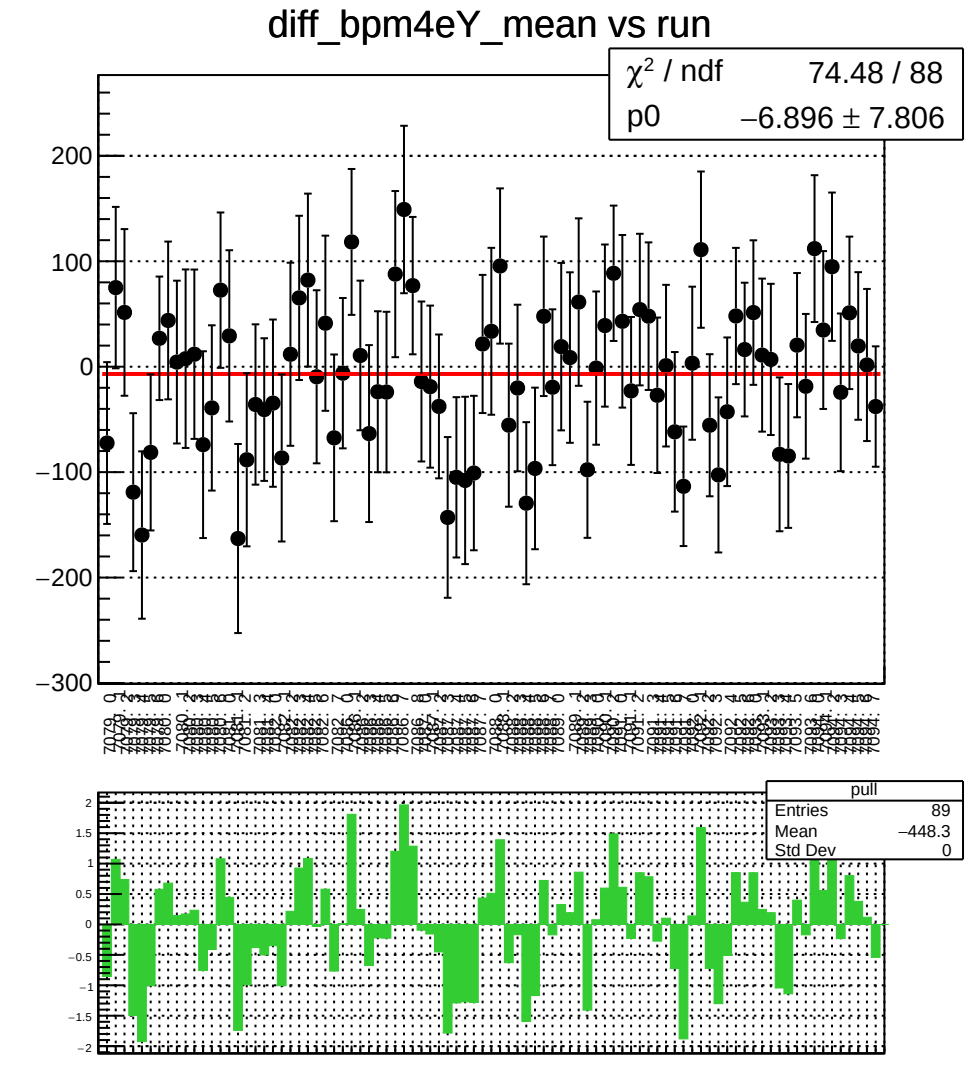

pull1D
Entries 89
Mean −0.004781
Std Dev 0.9446
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

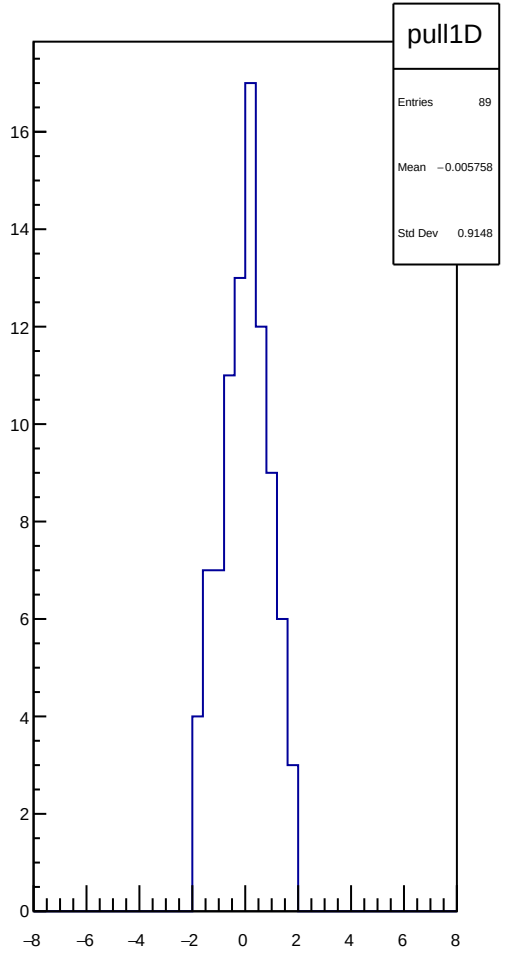

diff_bpm4aY_rms vs run
χ² / ndf 5732 / 88
p0 6987 ± 5.39
8000
7500
7000
6500
6000

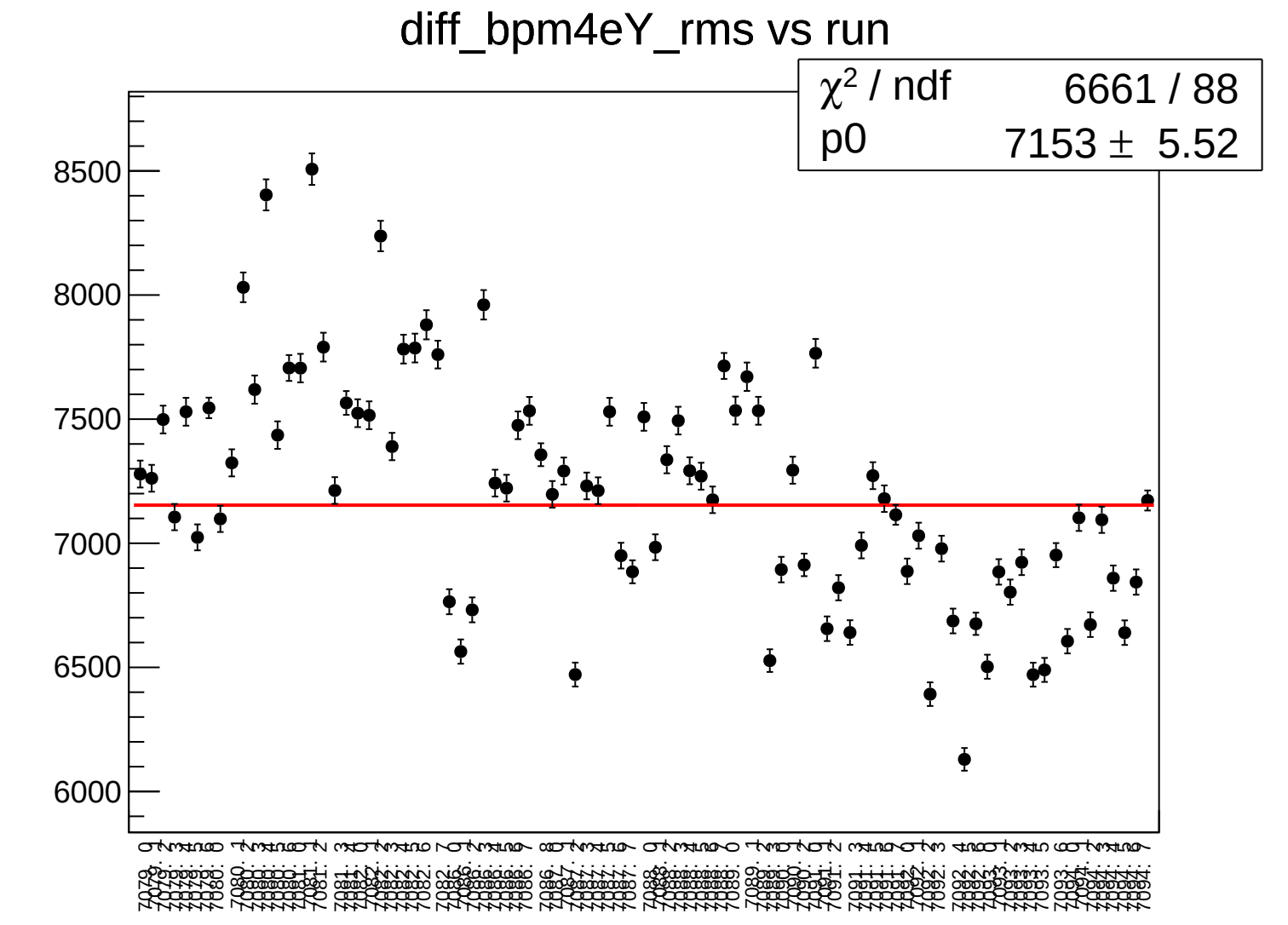

diff_bpm4eX_mean vs run
χ² / ndf 91.21 / 88
p0 −17.23 ± 9.238
pull
Entries 89
Mean 810.9
Std Dev 0

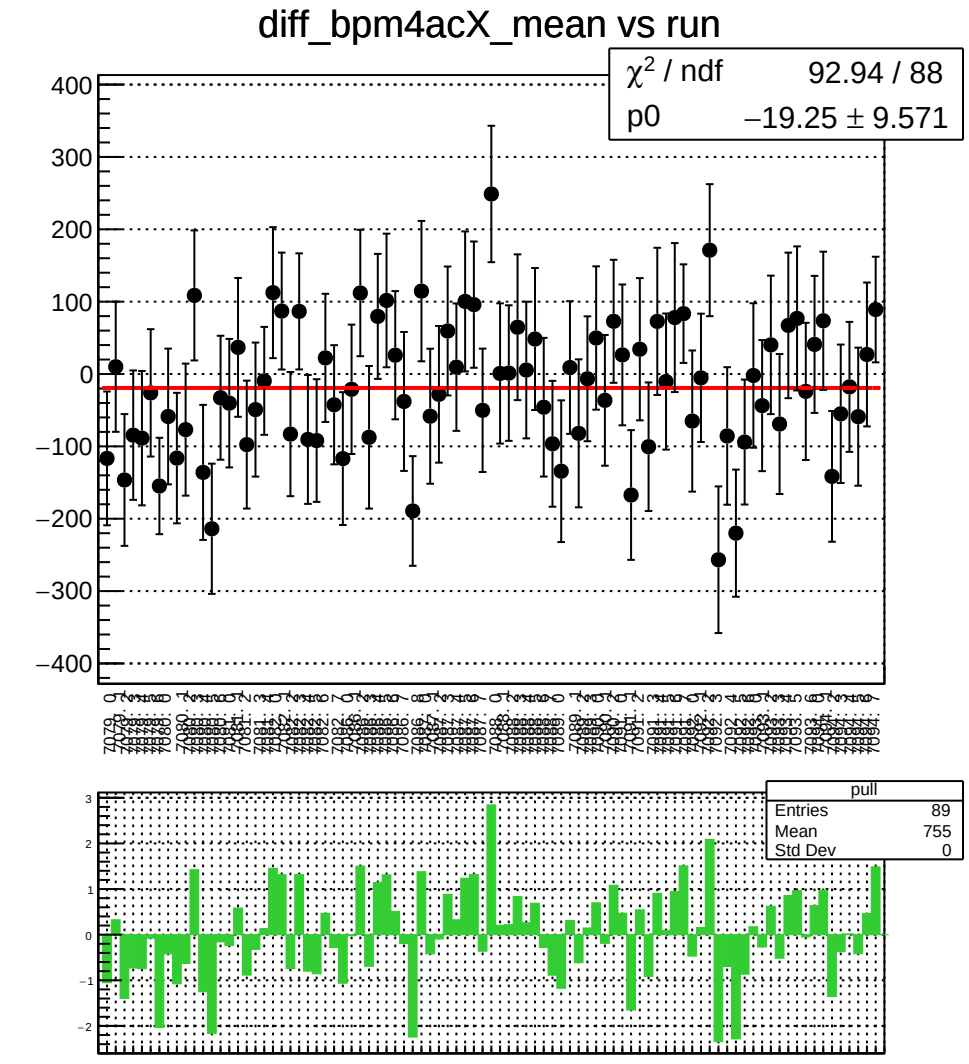

pull1D
Entries 89
Mean 0.004432
Std Dev 1.012

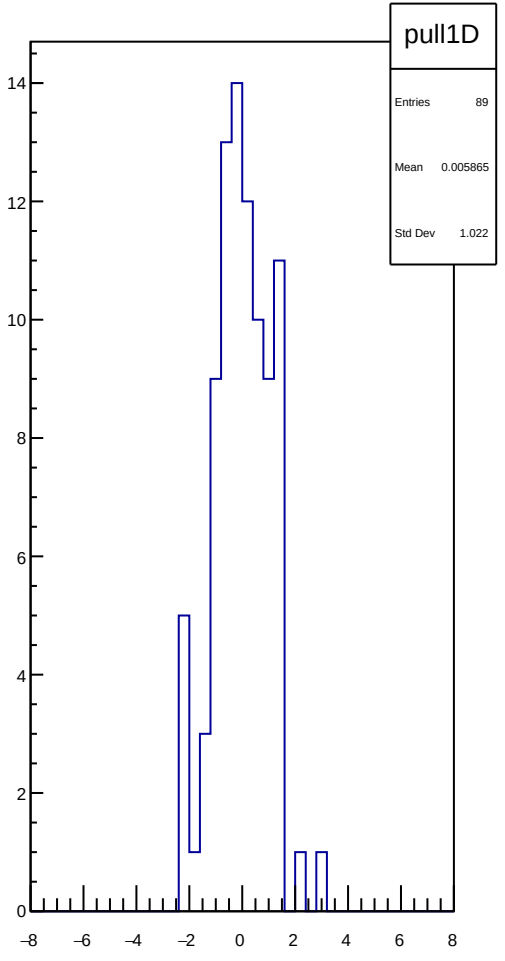

diff_bpm4eX_rms vs run
χ² / ndf 4278 / 88
p0 8472 ± 6.532
9500
9000
8500
8000
7500

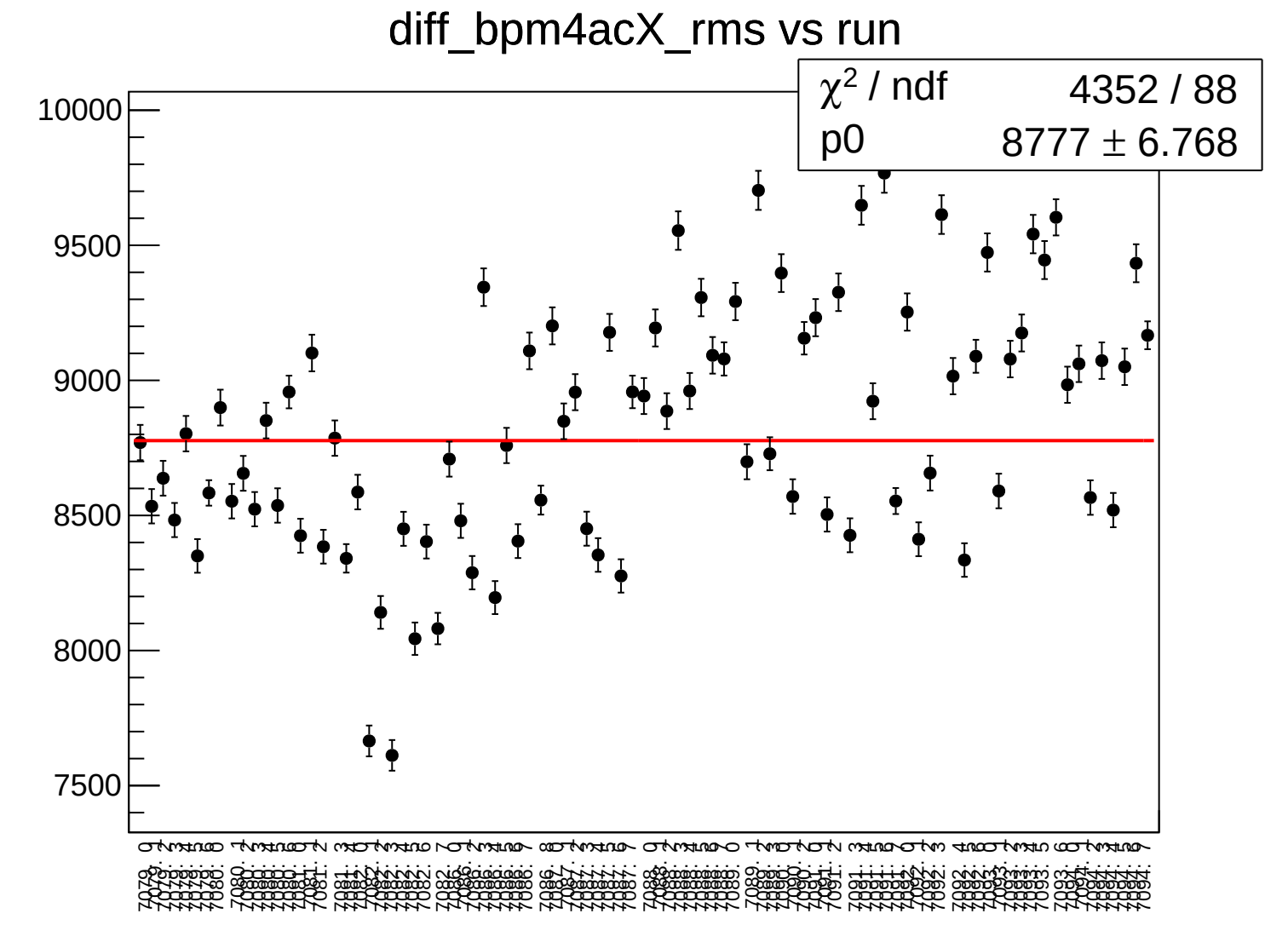

diff_bpm4eY_mean vs run
χ² / ndf 74.48 / 88
p0 −6.896 ± 7.806
pull
Entries 89
Mean −448.3
Std Dev 0

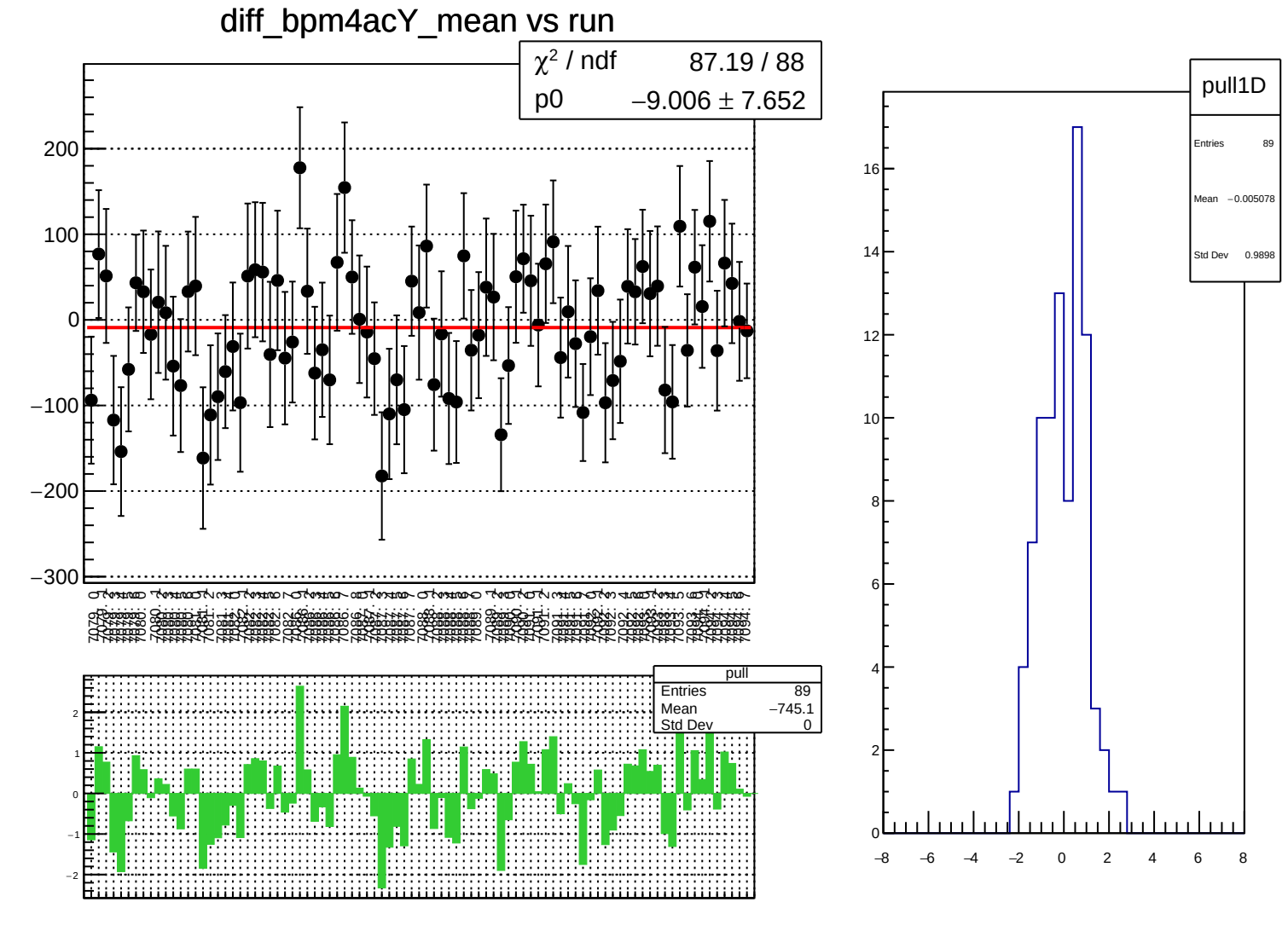

pull1D
Entries 89
Mean −0.005758
Std Dev 0.9148

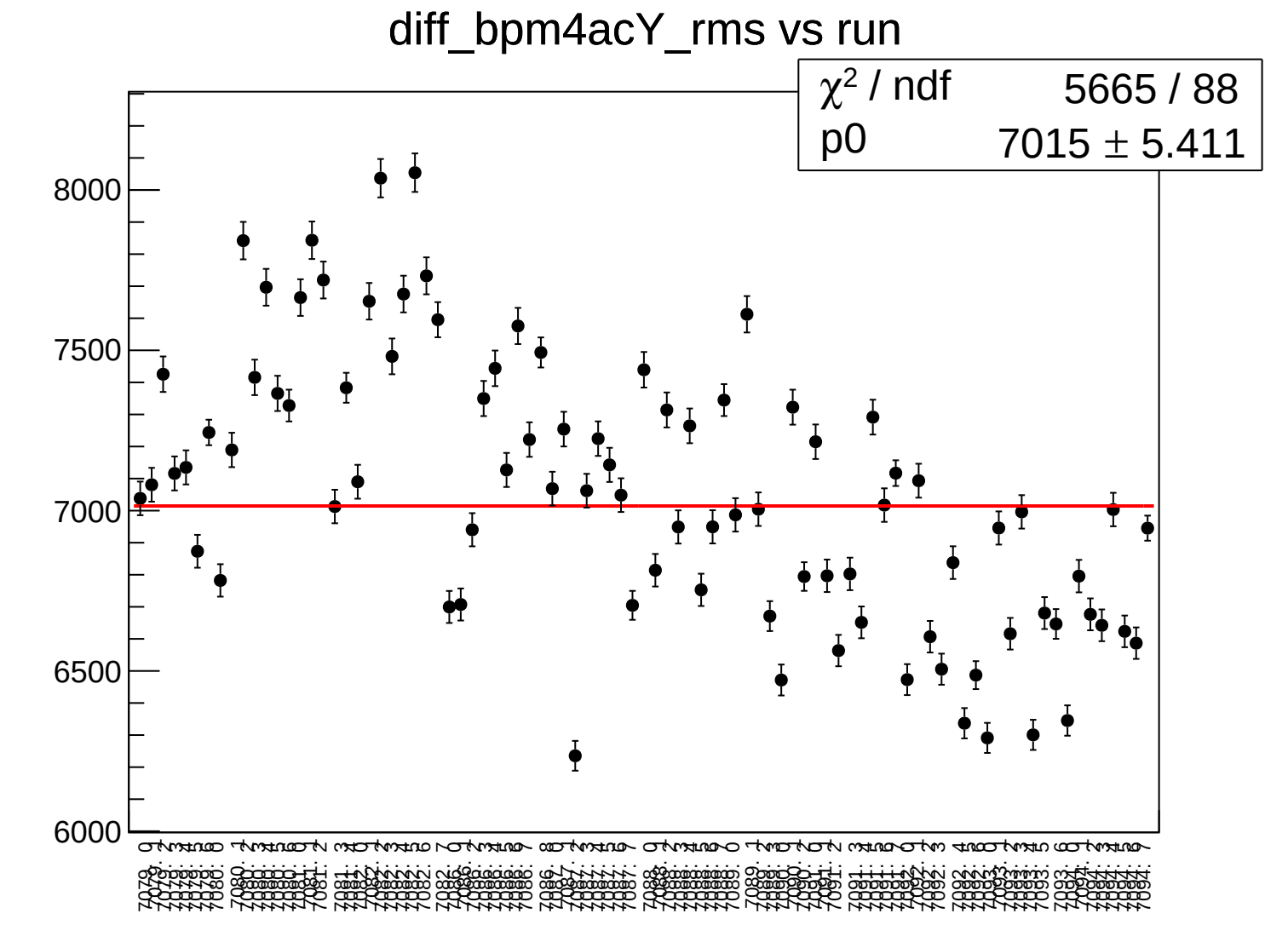

diff_bpm4eY_rms vs run
χ² / ndf 6661 / 88
p0 7153 ± 5.52
8500
8000
7500
7000
6500
6000

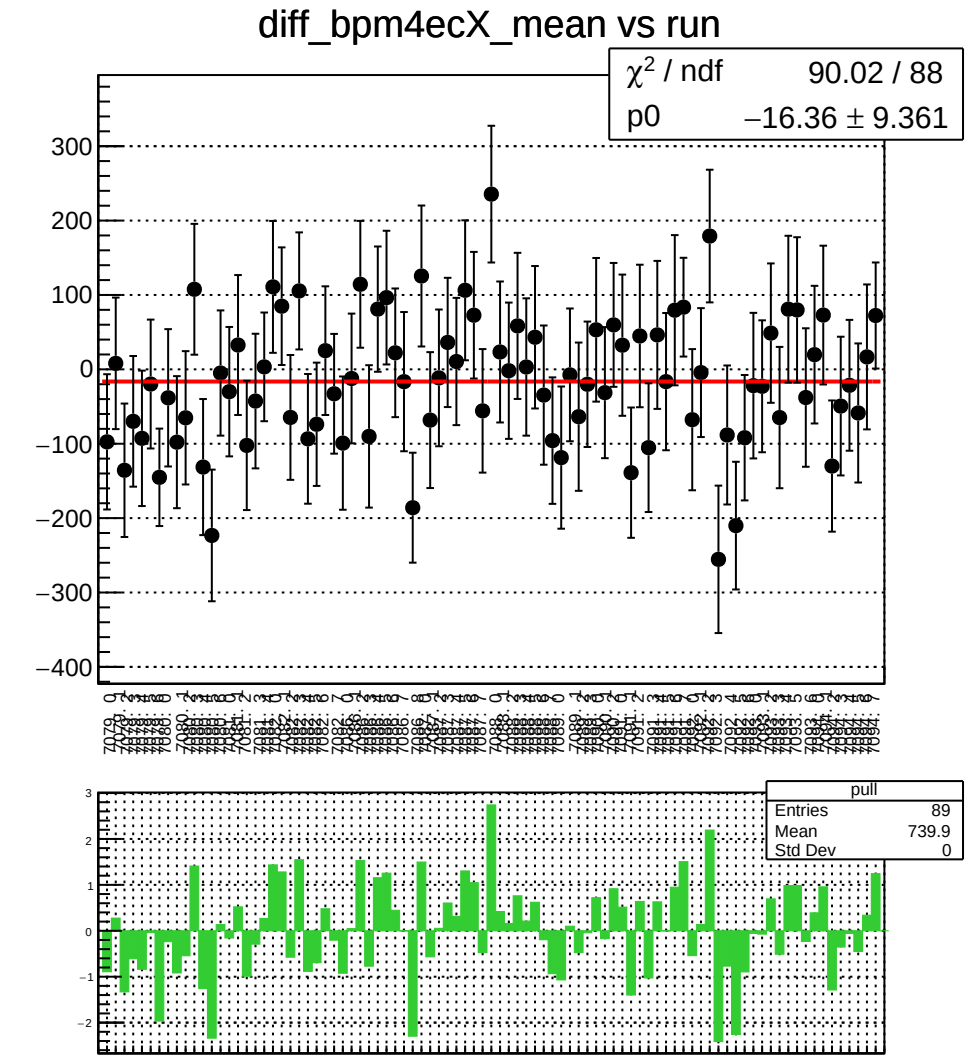

diff_bpm4acX_mean vs run
χ² / ndf 92.94 / 88
p0 −19.25 ± 9.571
pull
Entries 89
Mean 755
Std Dev 0

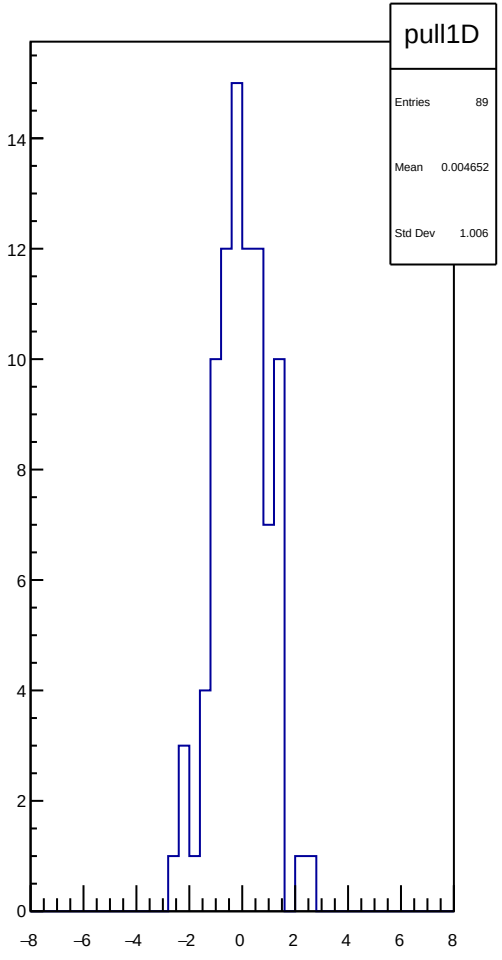

pull1D
Entries 89
Mean 0.005865
Std Dev 1.022

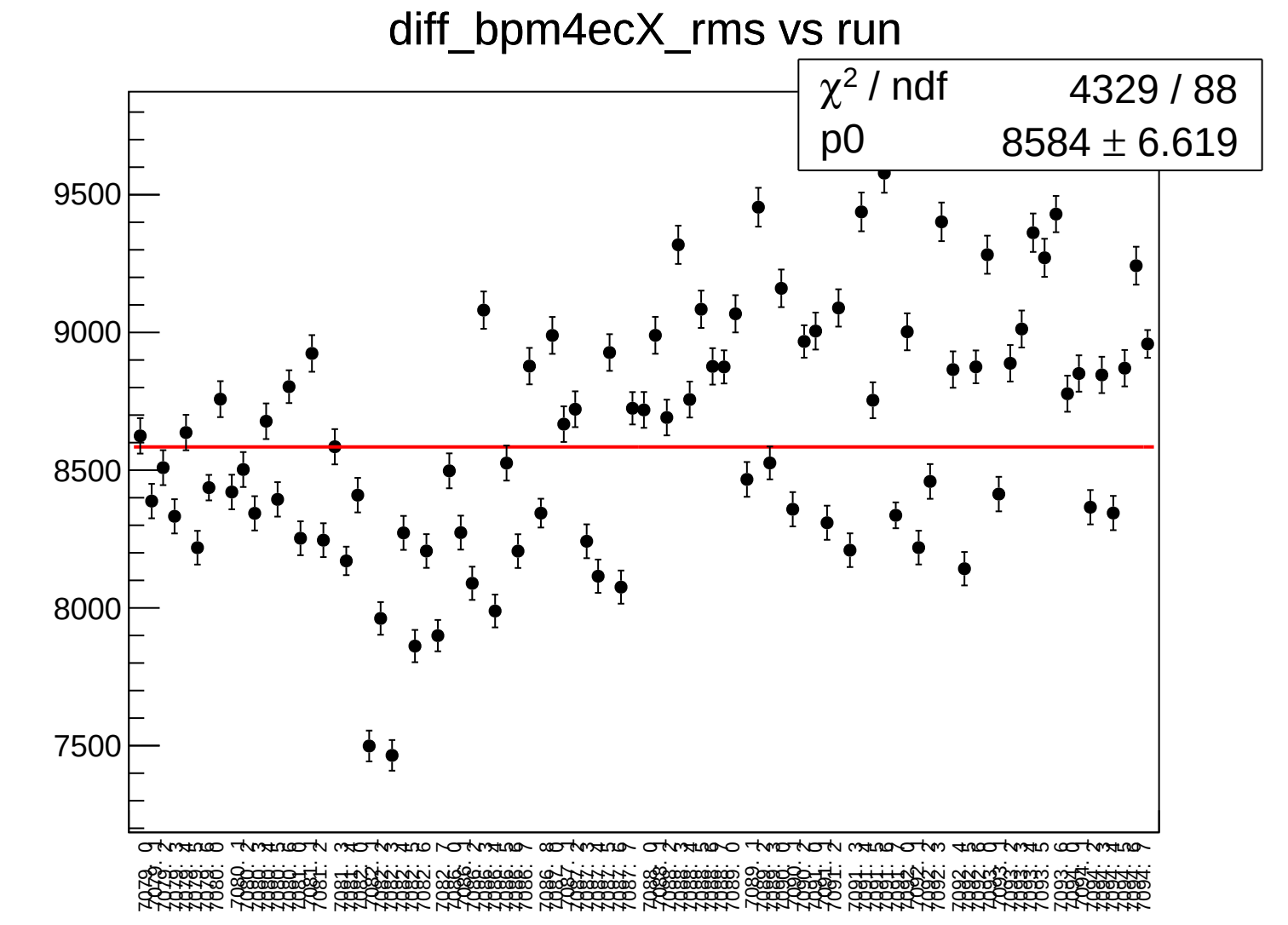

diff_bpm4acX_rms vs run
χ² / ndf 4352 / 88
p0 8777 ± 6.768
10000
9500
9000
8500
8000
7500

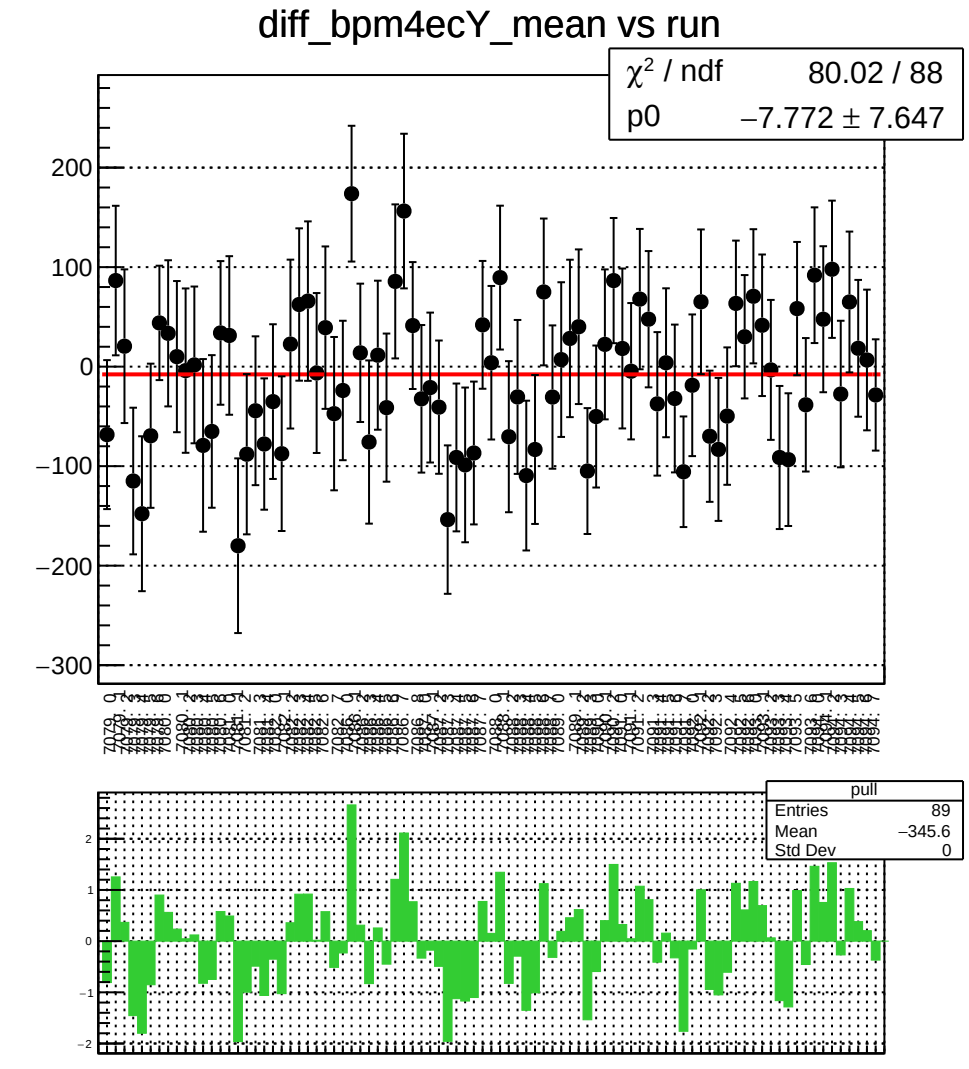

diff_bpm4acY_mean vs run
χ² / ndf 87.19 / 88
p0 −9.006 ± 7.652
200
100
0
−100
−200
−300
pull
Entries 89
Mean −745.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.005078
Std Dev 0.9898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

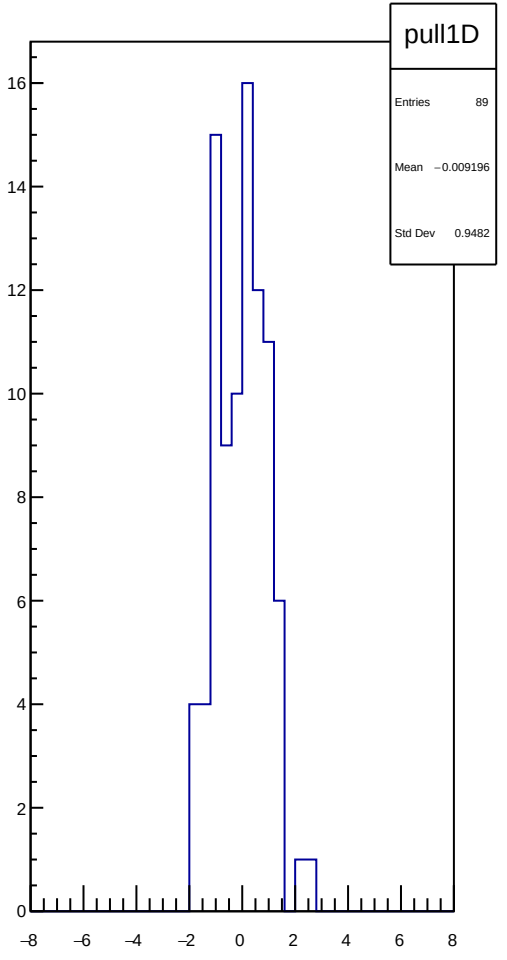

diff_bpm4acY_rms vs run
χ² / ndf 5665 / 88
p0 7015 ± 5.411
8000
7500
7000
6500
6000


diff_bpm4ecX_mean vs run
χ² / ndf 90.02 / 88
p0 −16.36 ± 9.361
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean 739.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.004652
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4ecX_rms vs run
χ² / ndf 4329 / 88
p0 8584 ± 6.619
9500
9000
8500
8000
7500


diff_bpm4ecY_mean vs run
χ^2 / ndf 80.02 / 88
p0 −7.772 ± 7.647
200
100
0
−100
−200
−300
pull
Entries 89
Mean −345.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.009196
Std Dev 0.9482
16
14
12
10
8
6
4
2
0
−8
−6
−4
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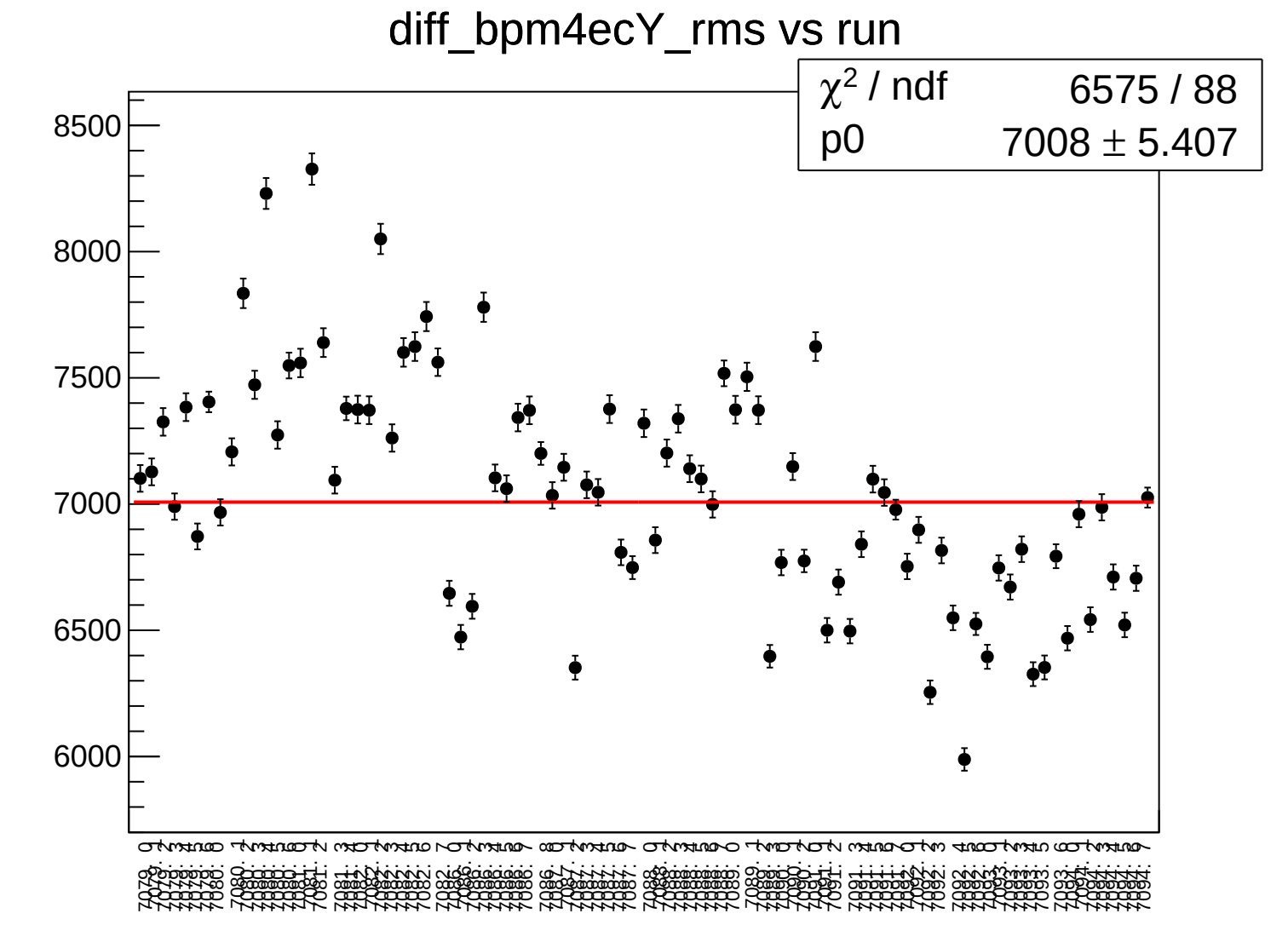
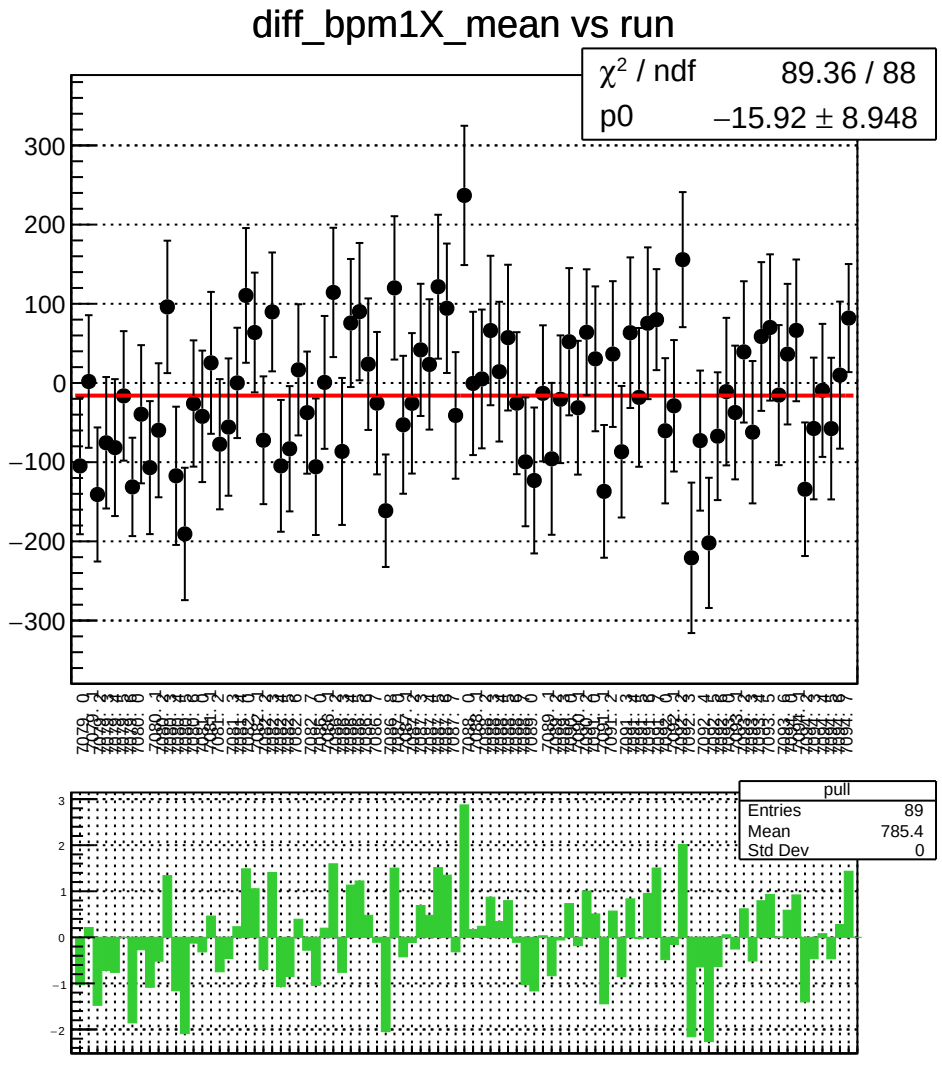
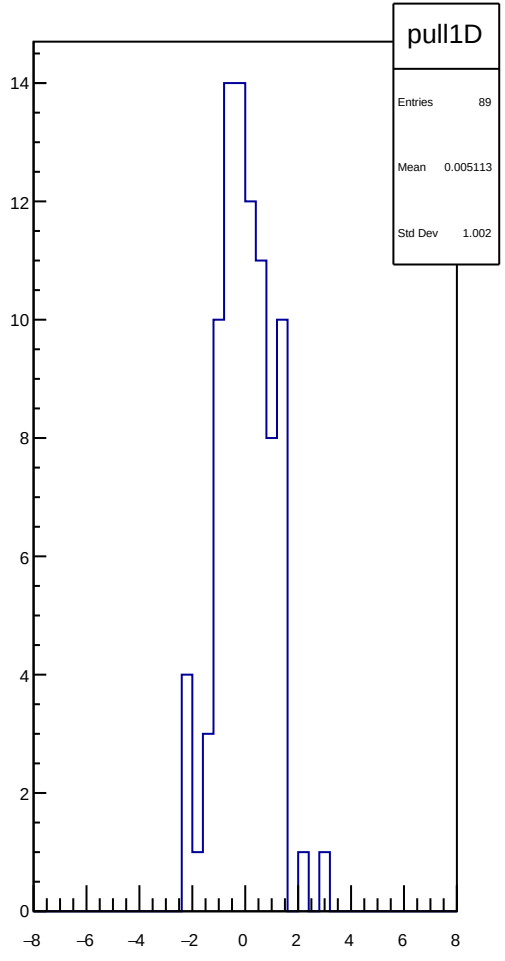
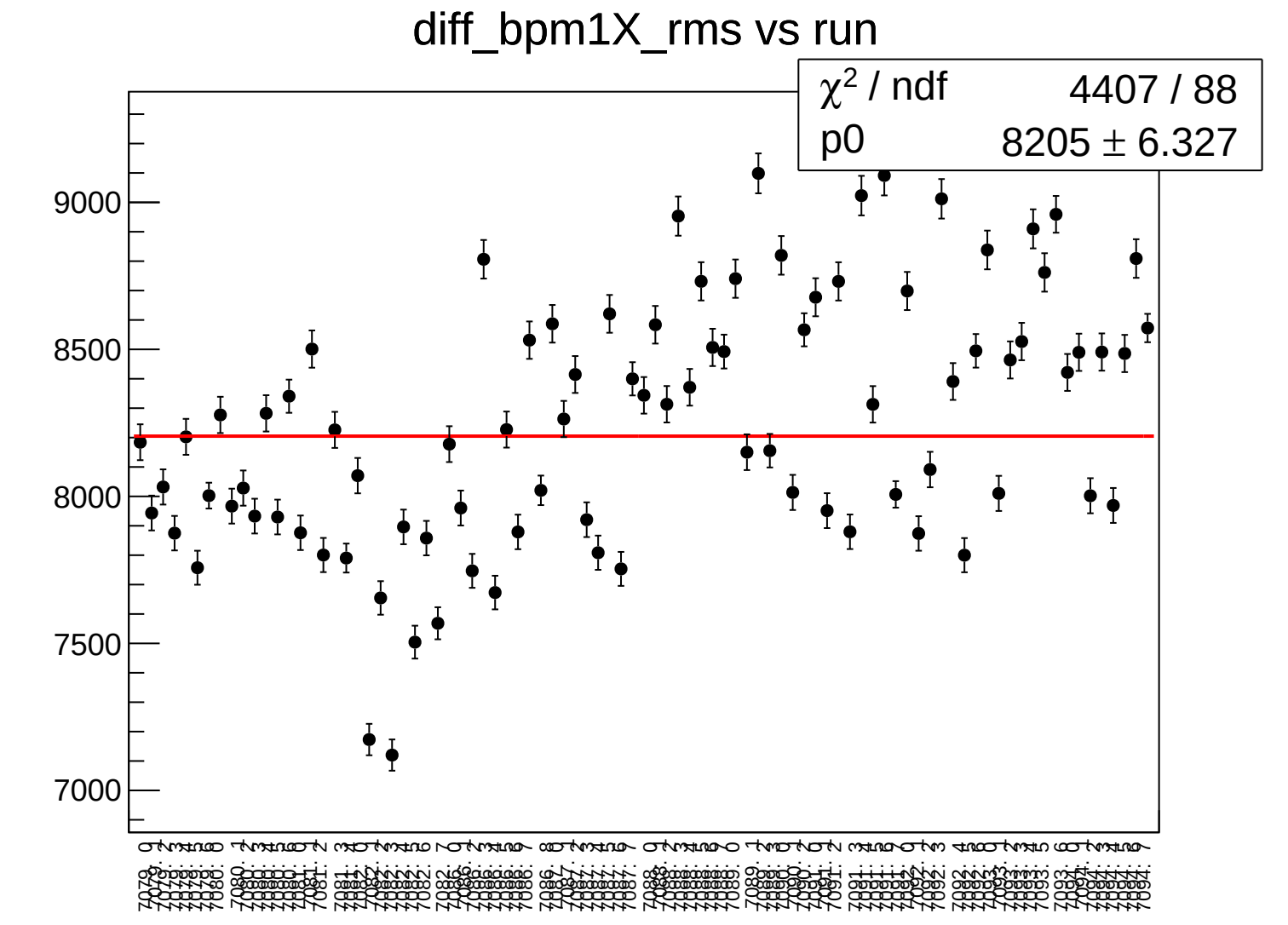
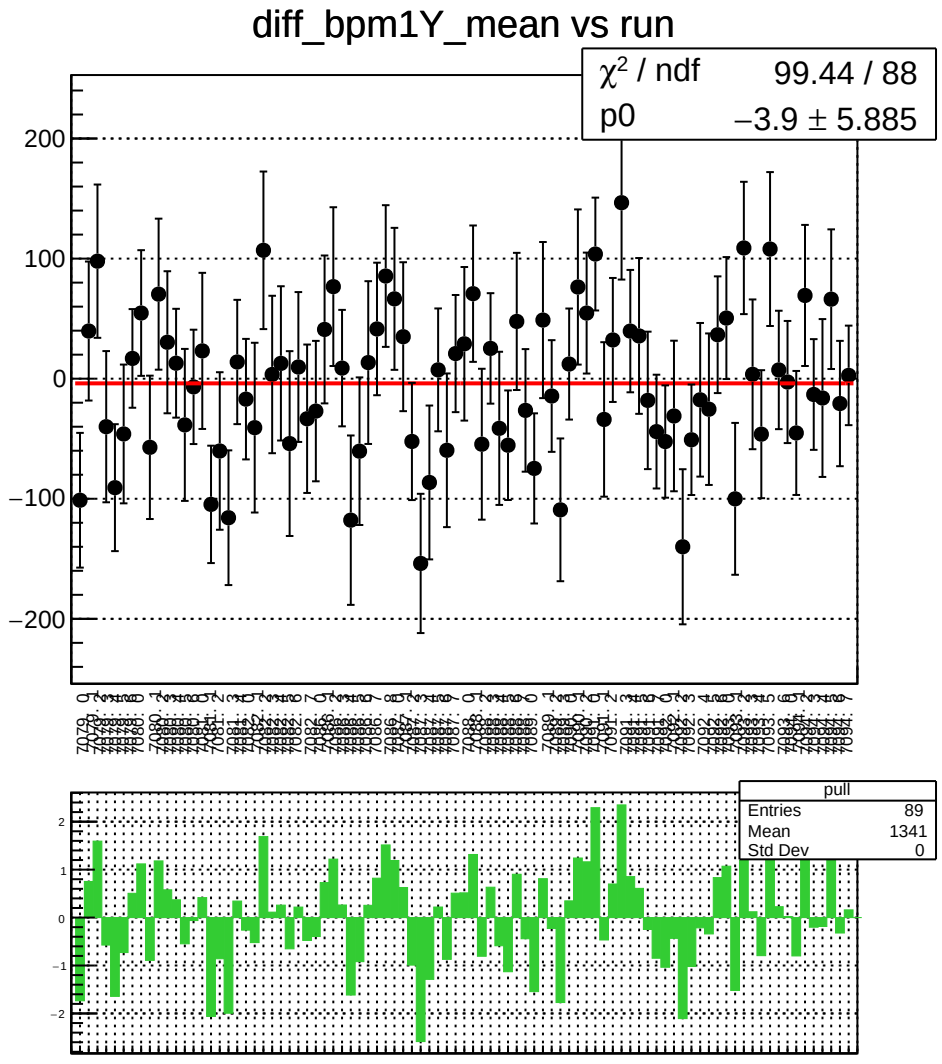
0
2
4
6
8

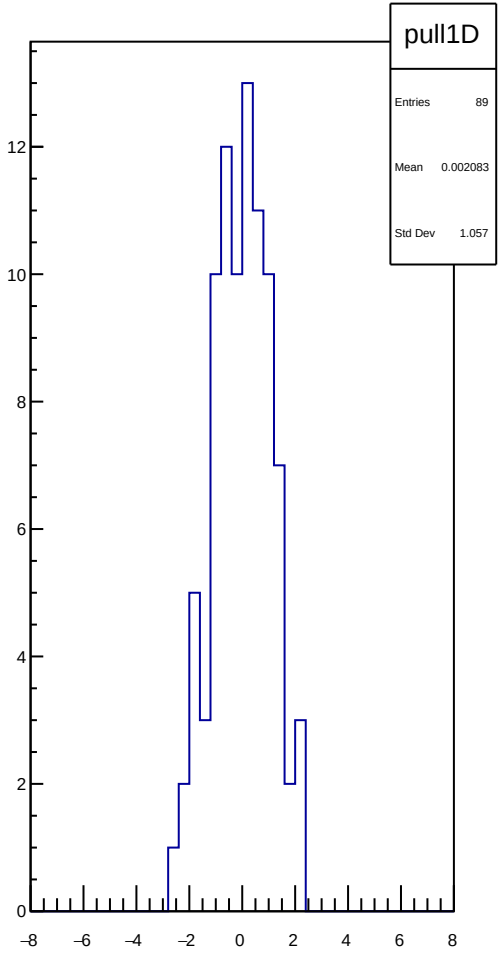

diff_bpm4ecY_rms vs run
χ² / ndf 6575 / 88
p0 7008 ± 5.407
8500
8000
7500
7000
6500
6000

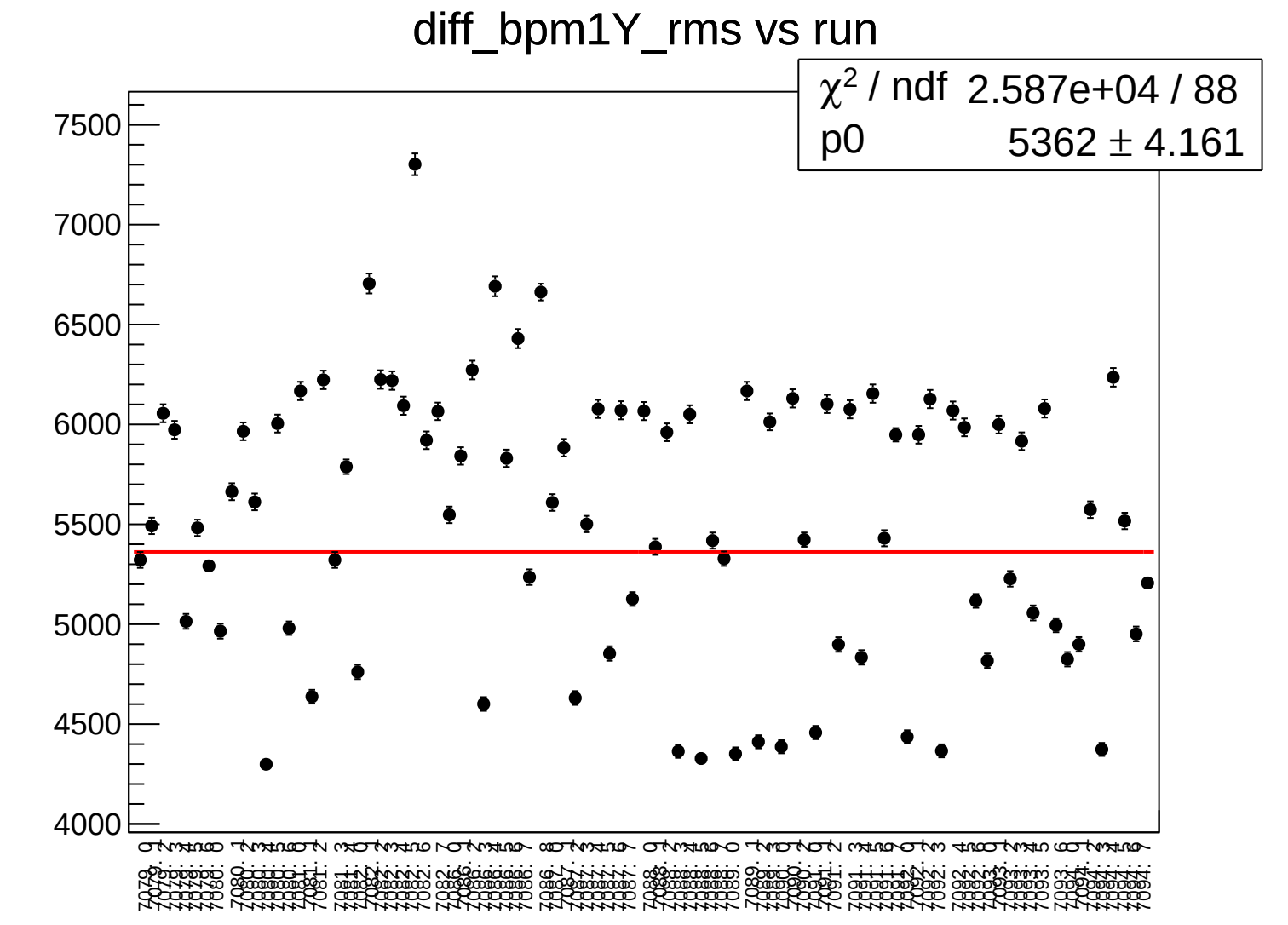

diff_bpm1X_mean vs run
χ² / ndf 89.36 / 88
p0 −15.92 ± 8.948
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean 785.4
Std Dev 0
3
2
1
0
−1
−2

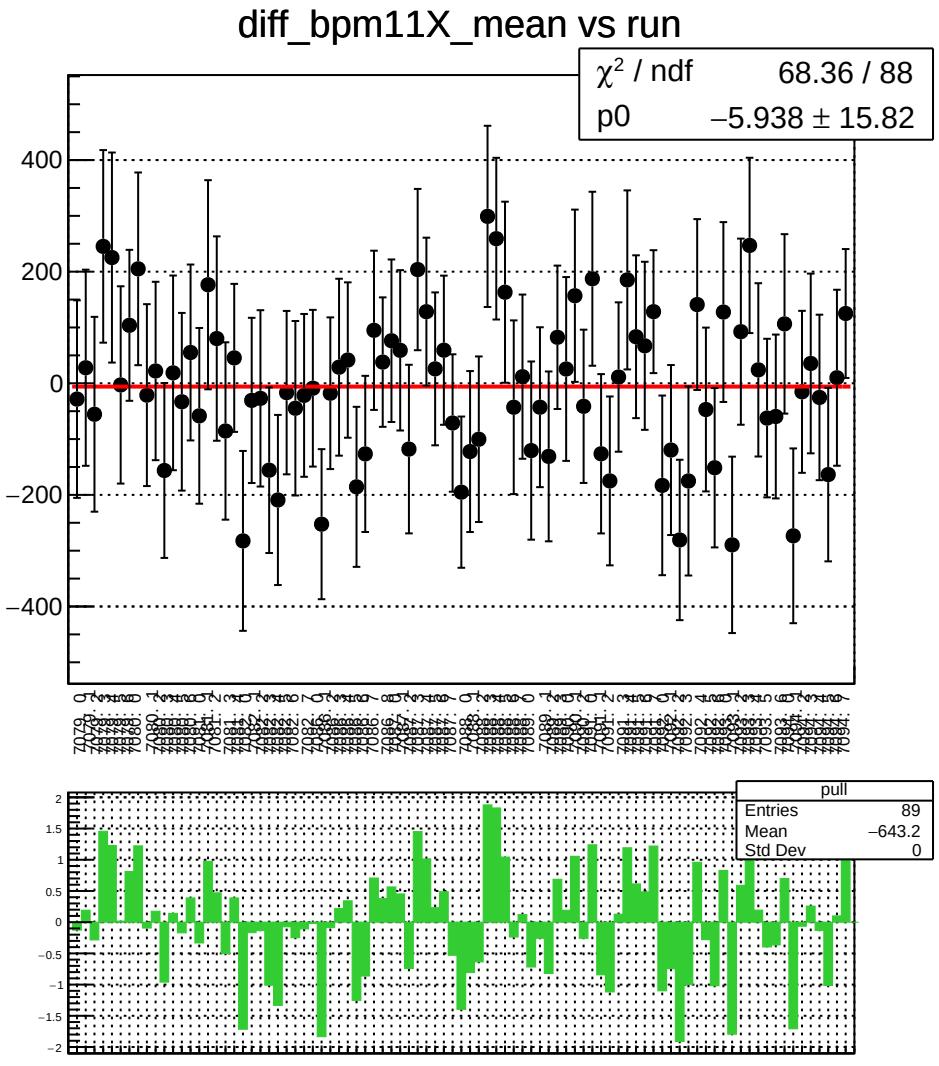

pull1D
Entries 89
Mean 0.005113
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

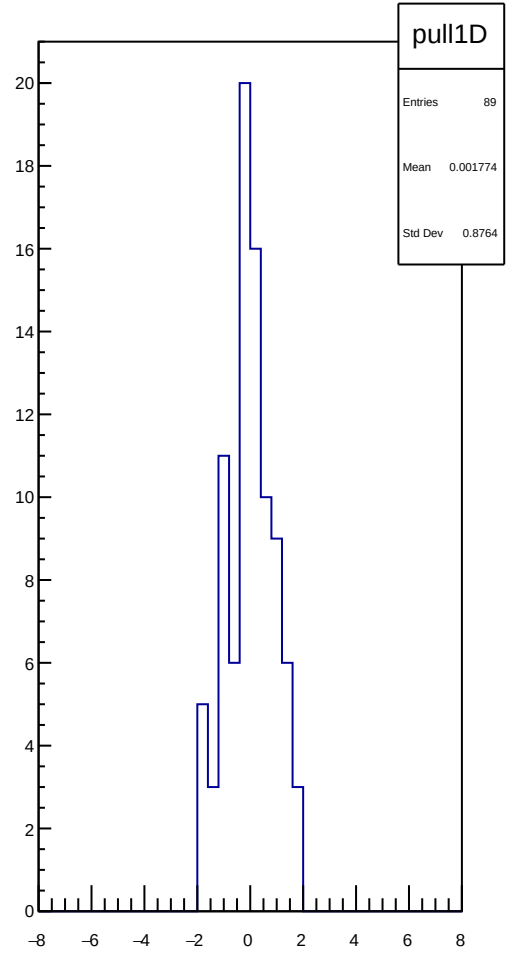

diff_bpm1X_rms vs run
χ² / ndf 4407 / 88
p0 8205 ± 6.327
9000
8500
8000
7500
7000

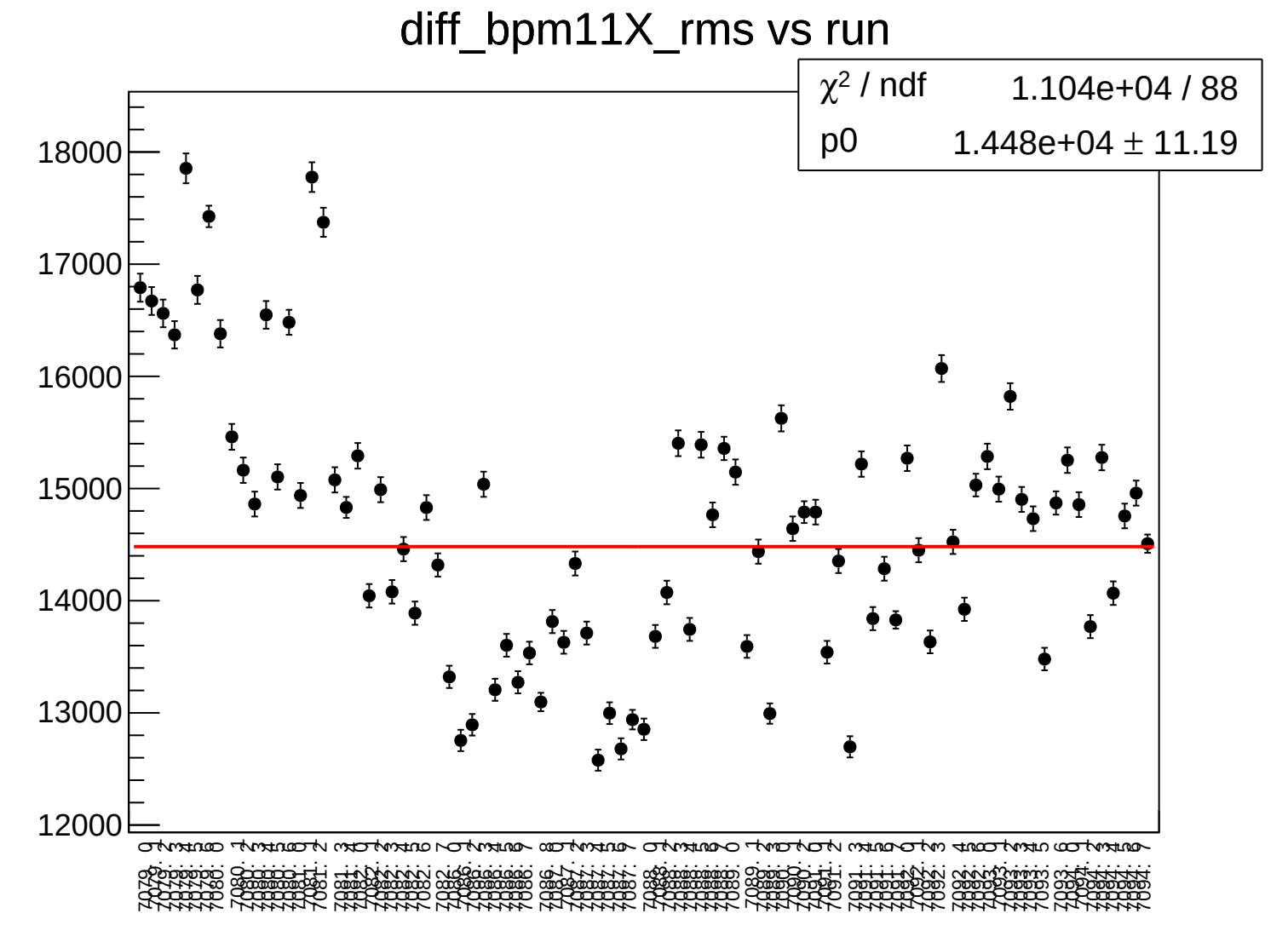

diff_bpm1Y_mean vs run
χ² / ndf 99.44 / 88
p0 −3.9 ± 5.885
200
100
0
−100
−200
pull
Entries 89
Mean 1341
Std Dev 0
2
1
0
−1
−2

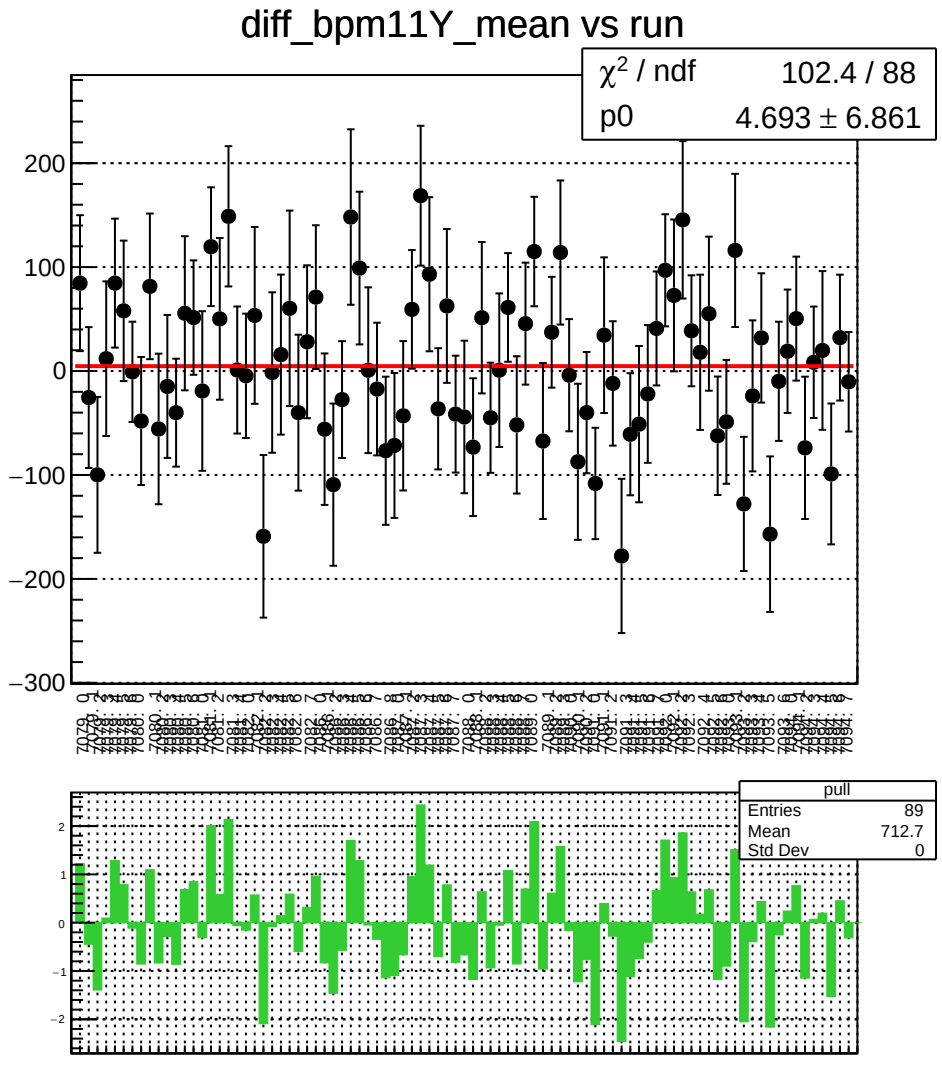

pull1D
Entries 89
Mean 0.002083
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

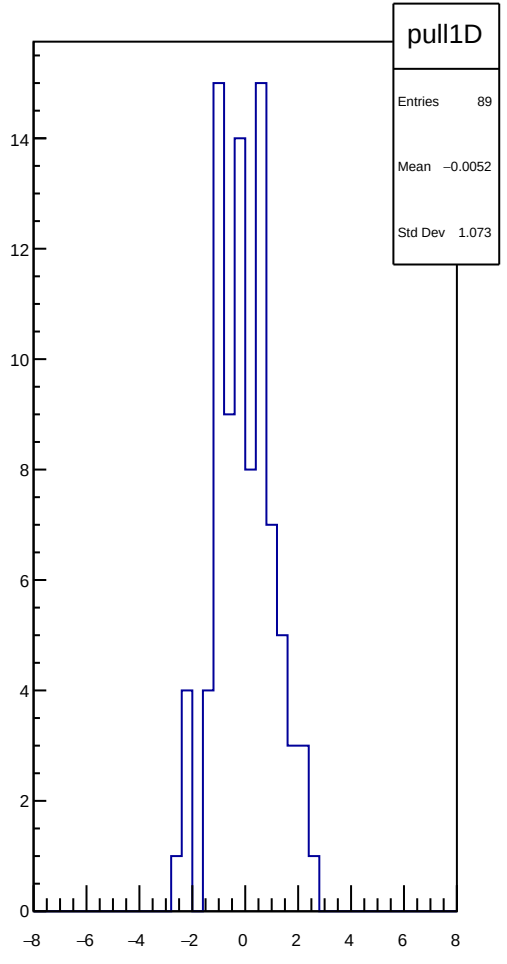

diff_bpm1Y_rms vs run
χ² / ndf 2.587e+04 / 88
p0 5362 ± 4.161
7500
7000
6500
6000
5500
5000
4500
4000

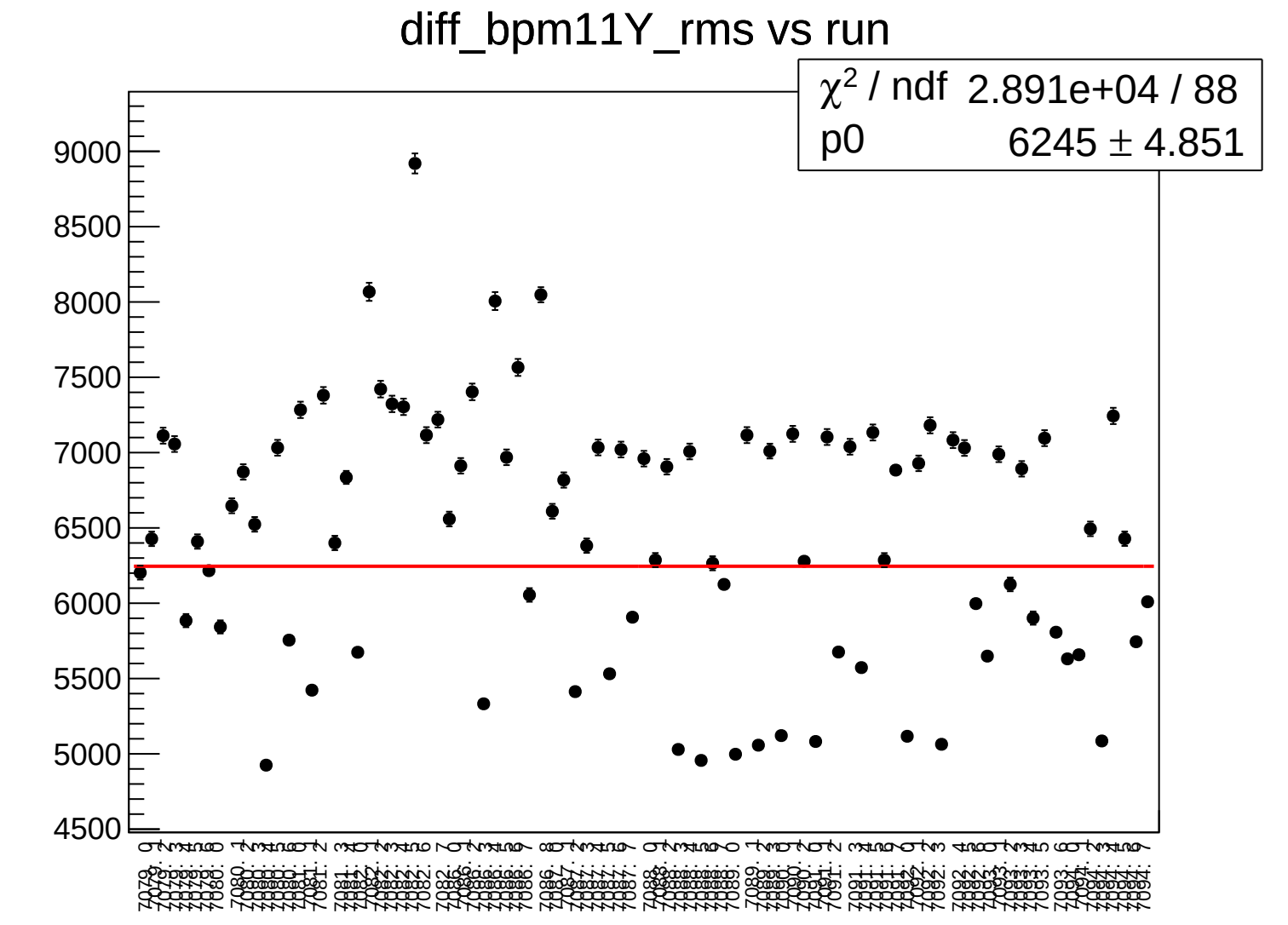

diff_bpm11X_mean vs run
χ² / ndf 68.36 / 88
p0 −5.938 ± 15.82
400
200
0
−200
−400
pull
Entries 89
Mean −643.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

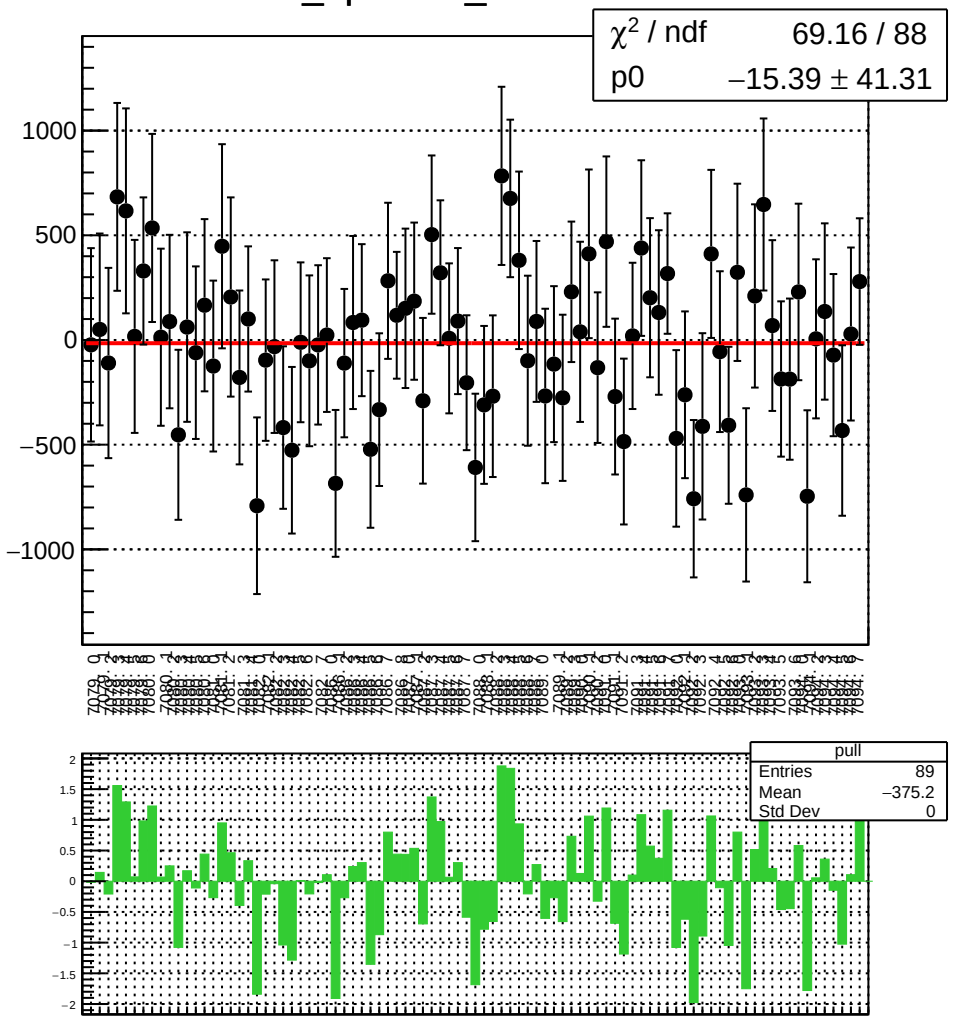

pull1D
Entries 89
Mean 0.001774
Std Dev 0.8764
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

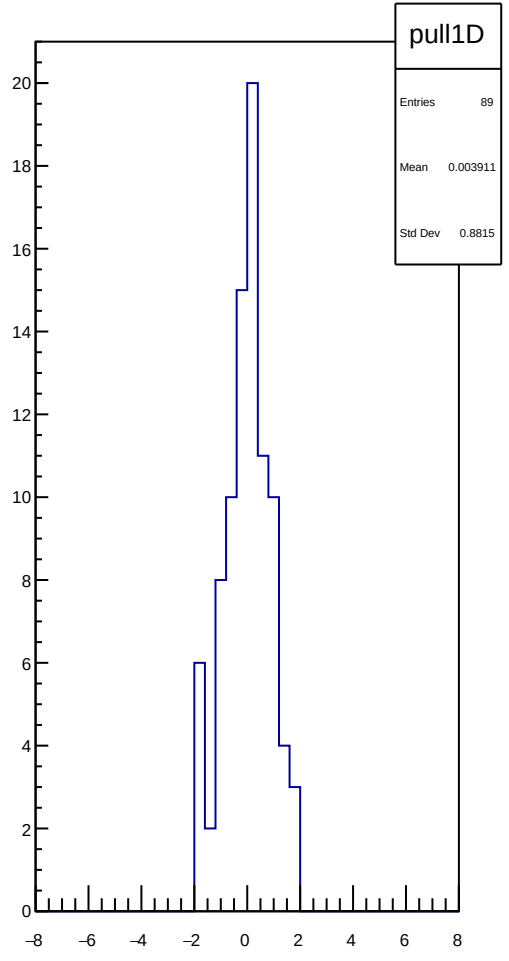

diff_bpm11X_rms vs run
χ² / ndf 1.104e+04 / 88
p0 1.448e+04 ± 11.19
18000
17000
16000
15000
14000
13000
12000

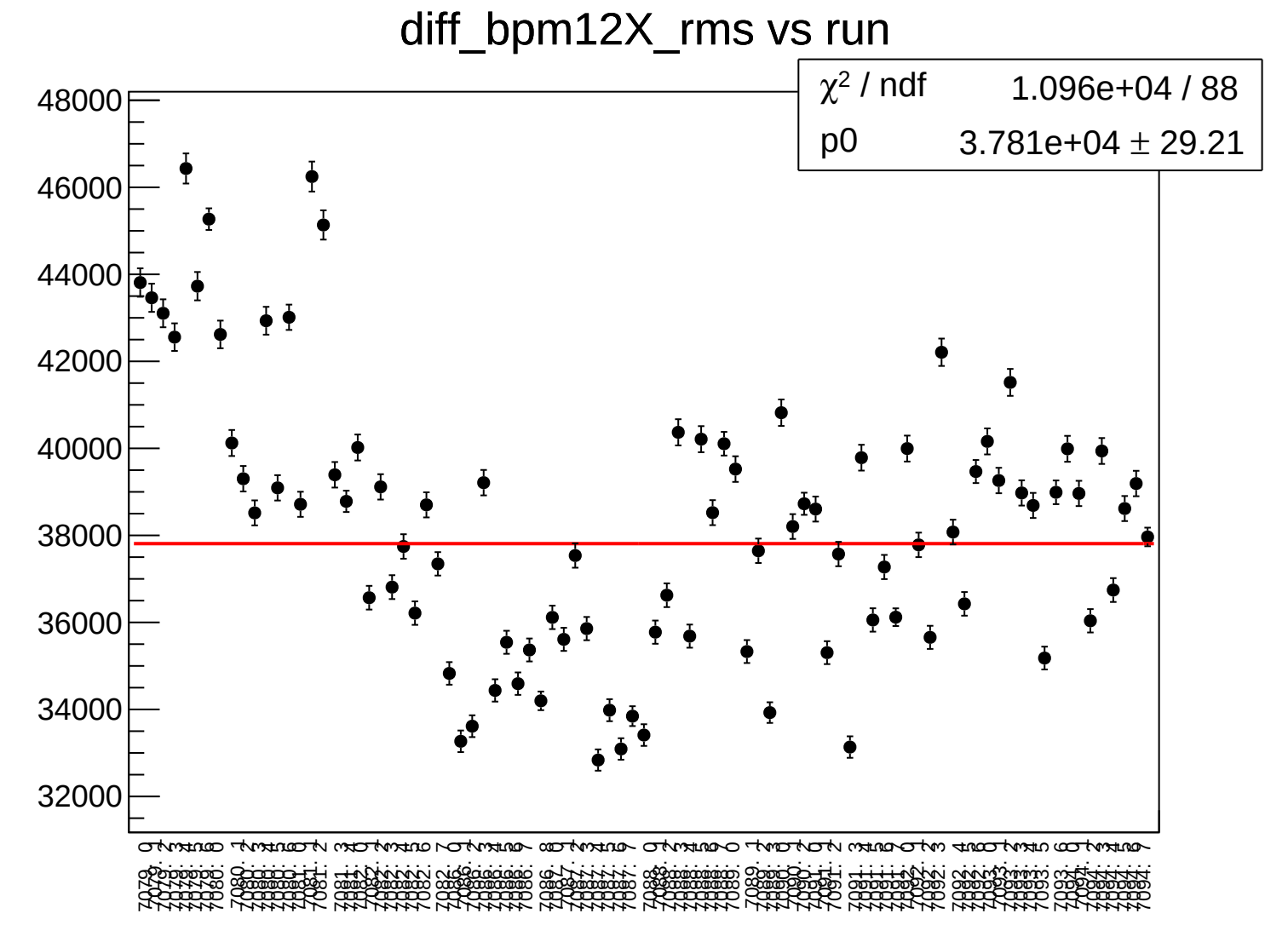

diff_bpm11Y_mean vs run
χ² / ndf 102.4 / 88
p0 4.693 ± 6.861
200
100
0
−100
−200
−300
pull
Entries 89
Mean 712.7
Std Dev 0
2
1
0
−1
−2

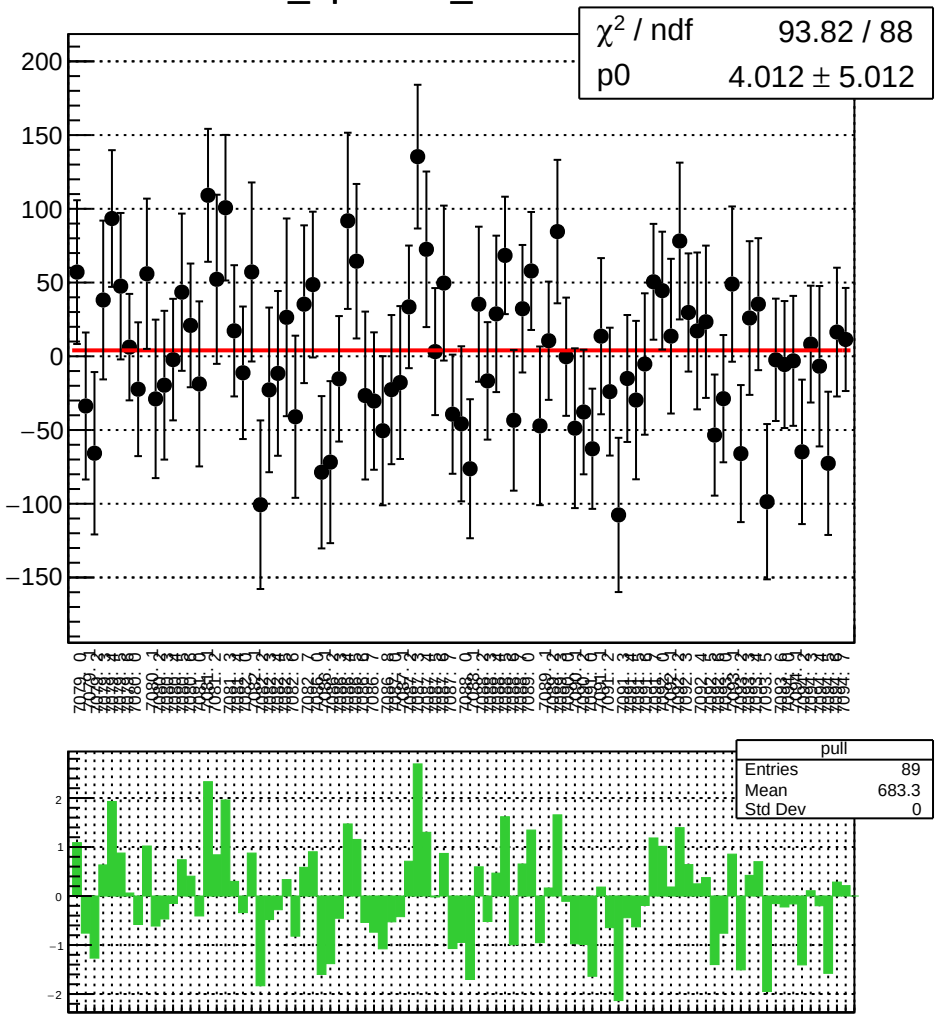

pull1D
Entries 89
Mean −0.0052
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

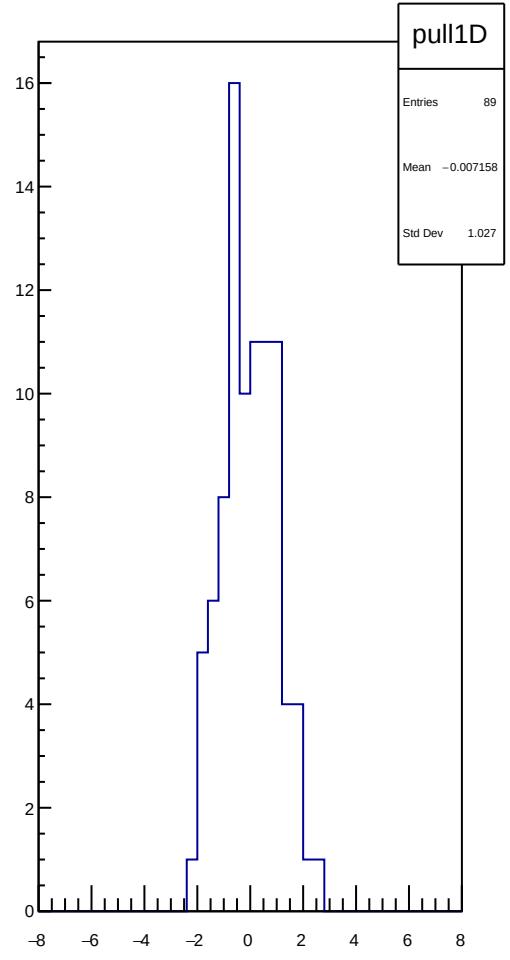

diff_bpm11Y_rms vs run
χ² / ndf 2.891e+04 / 88
p0 6245 ± 4.851
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

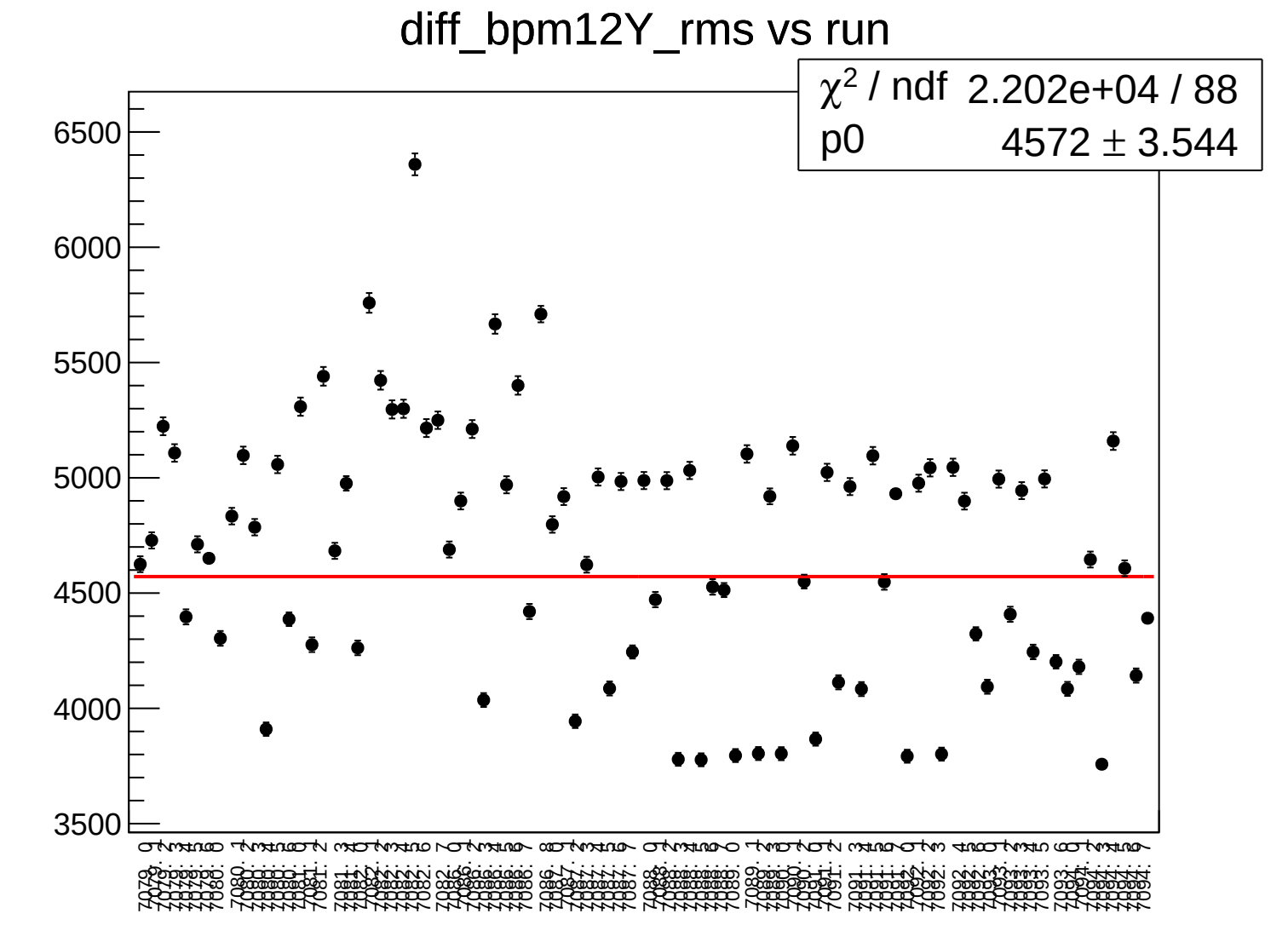

diff_bpm12X_mean vs run
χ^2 / ndf 69.16 / 88
p0 −15.39 ± 41.31
1000
500
0
−500
−1000
pull
Entries 89
Mean −375.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

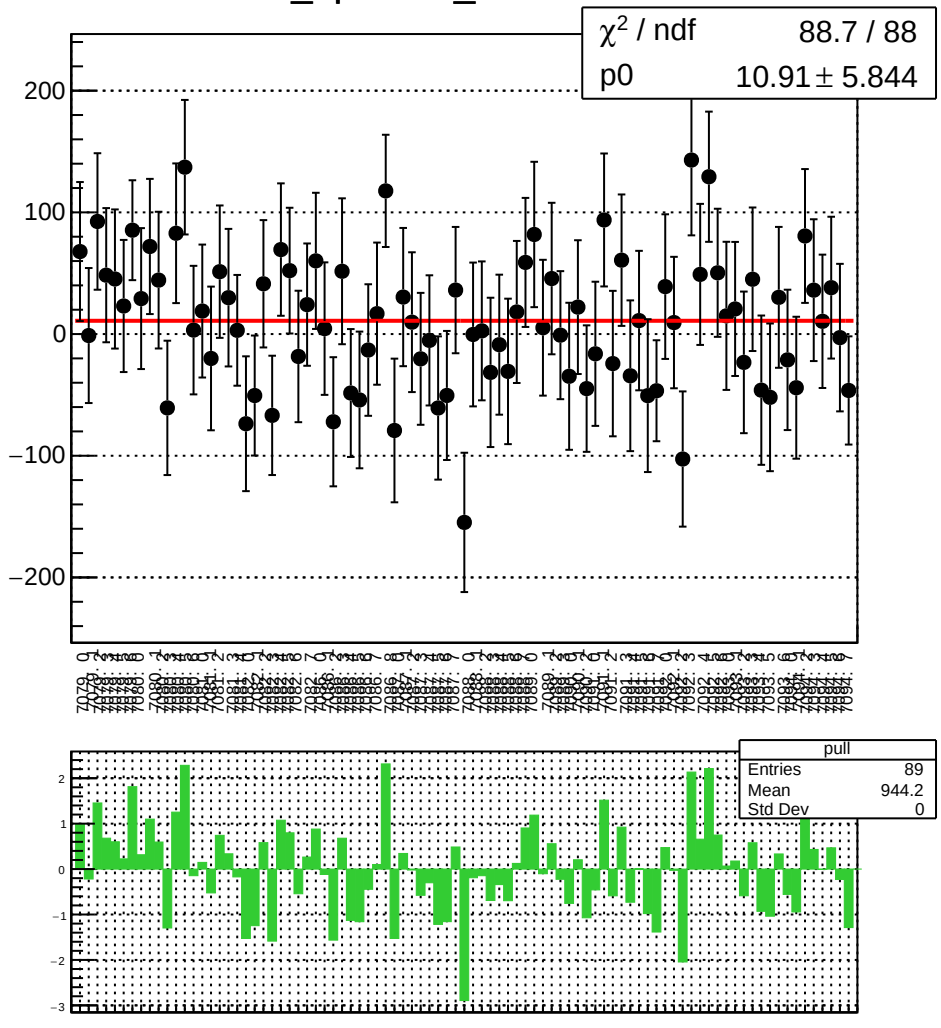

pull1D
Entries 89
Mean 0.003911
Std Dev 0.8815
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

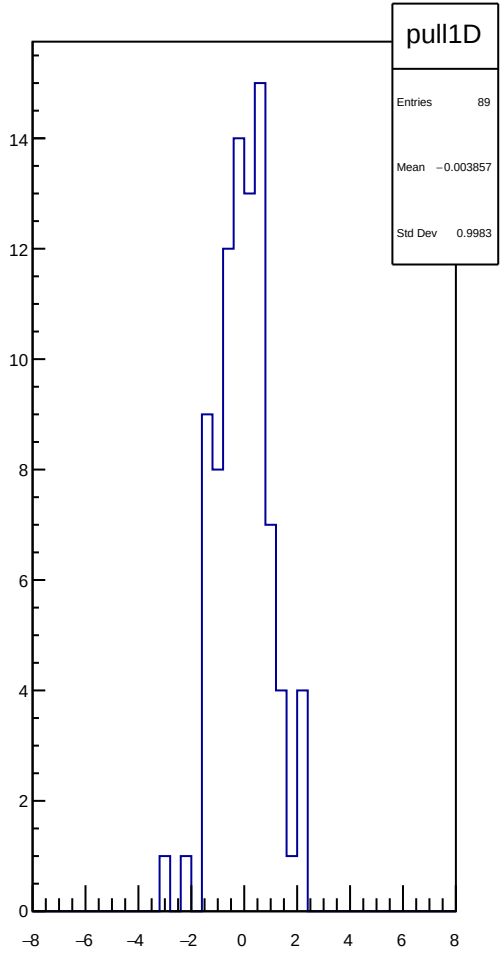

diff_bpm12X_rms vs run
χ² / ndf 1.096e+04 / 88
p0 3.781e+04 ± 29.21
48000
46000
44000
42000
40000
38000
36000
34000
32000

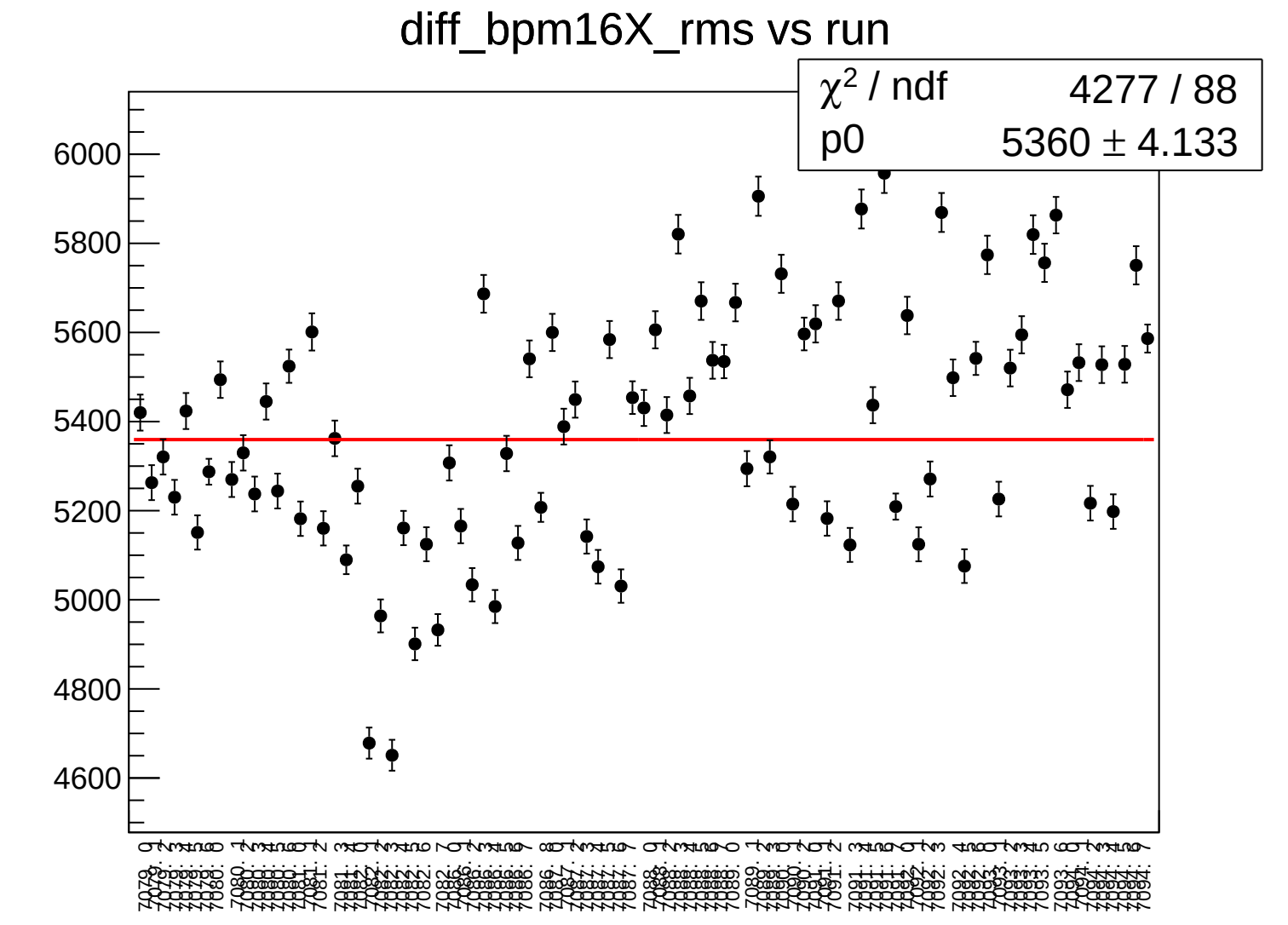

diff_bpm12Y_mean vs run
χ^2 / ndf 93.82 / 88
p0 4.012 ± 5.012
pull
Entries 89
Mean 683.3
Std Dev 0

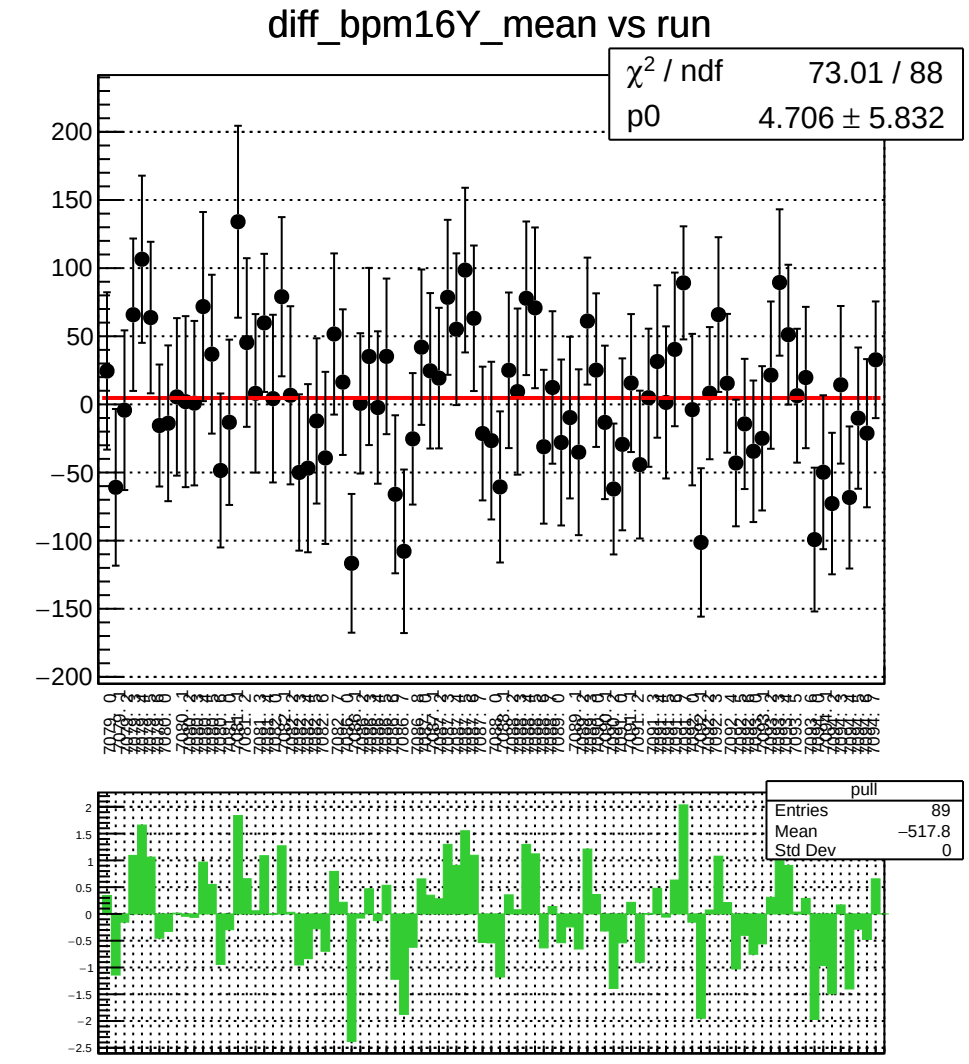

pull1D
Entries 89
Mean −0.007158
Std Dev 1.027

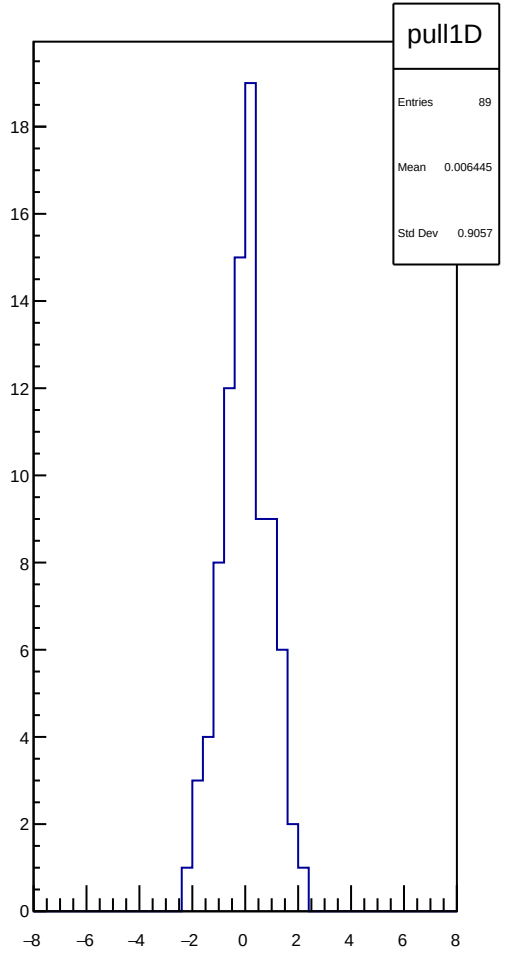

diff_bpm12Y_rms vs run
χ² / ndf 2.202e+04 / 88
p0 4572 ± 3.544
6500
6000
5500
5000
4500
4000
3500

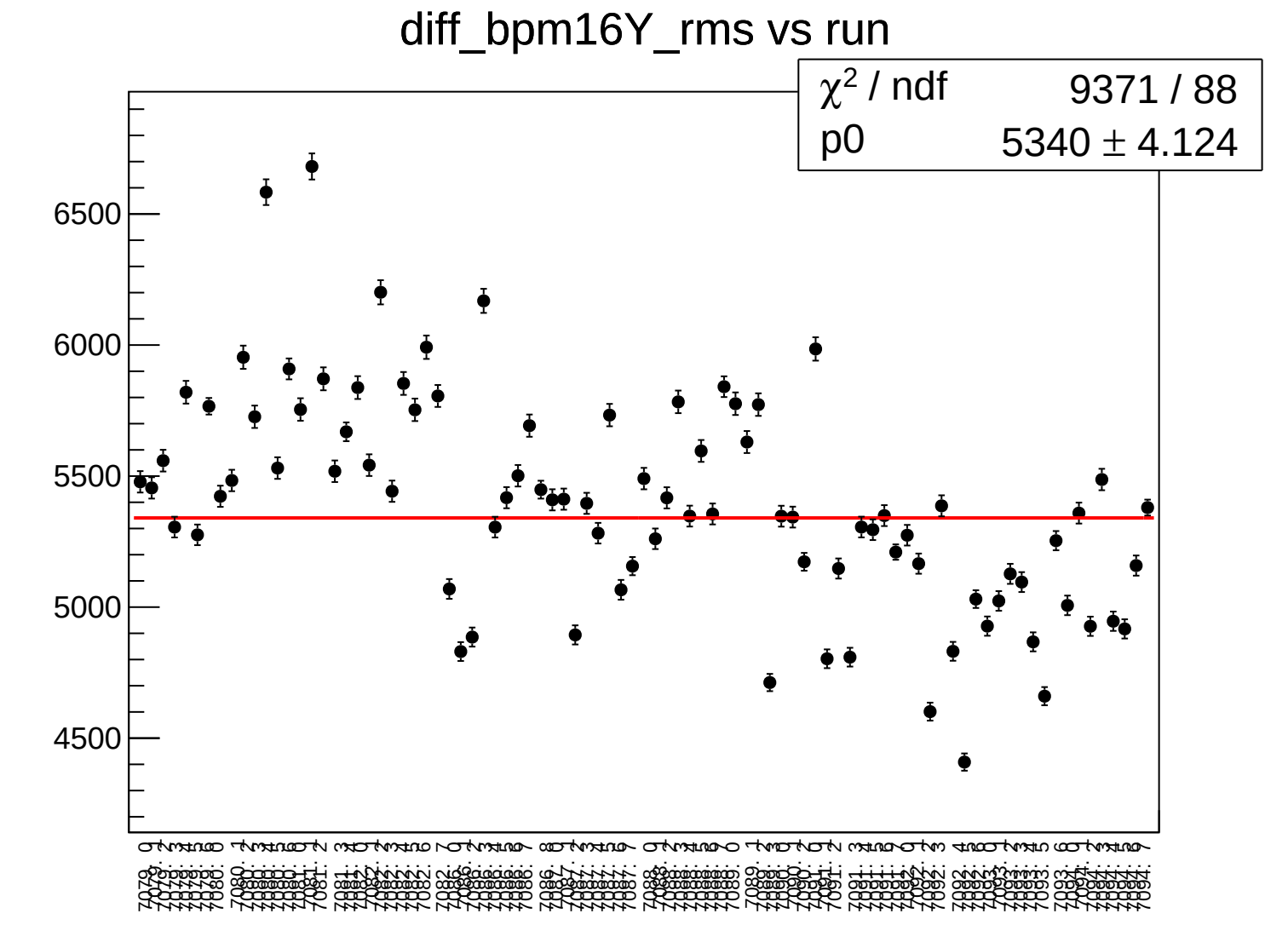

diff_bpm16X_mean vs run
χ^2 / ndf 88.7 / 88
p0 10.91 ± 5.844
200
100
0
−100
−200
pull
Entries 89
Mean 944.2
Std Dev 0
2
1
0
−1
−2
−3

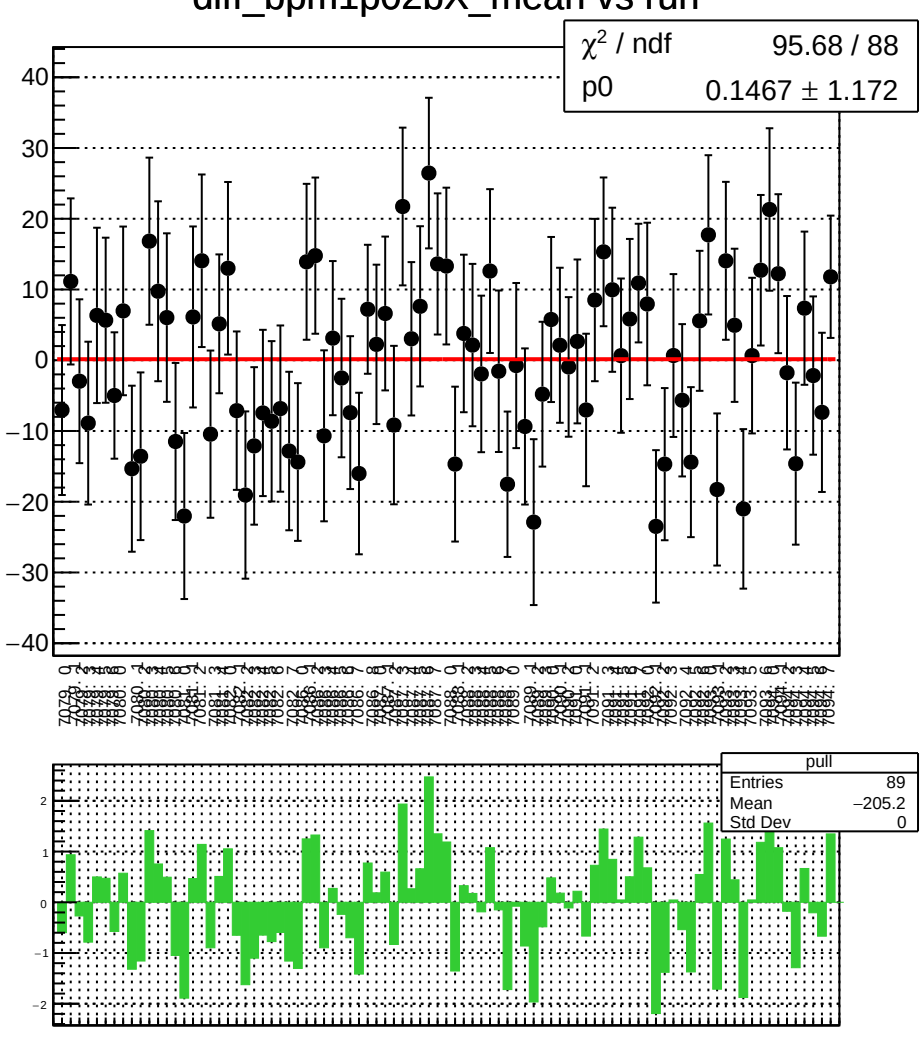

pull1D
Entries 89
Mean −0.003857
Std Dev 0.9983
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

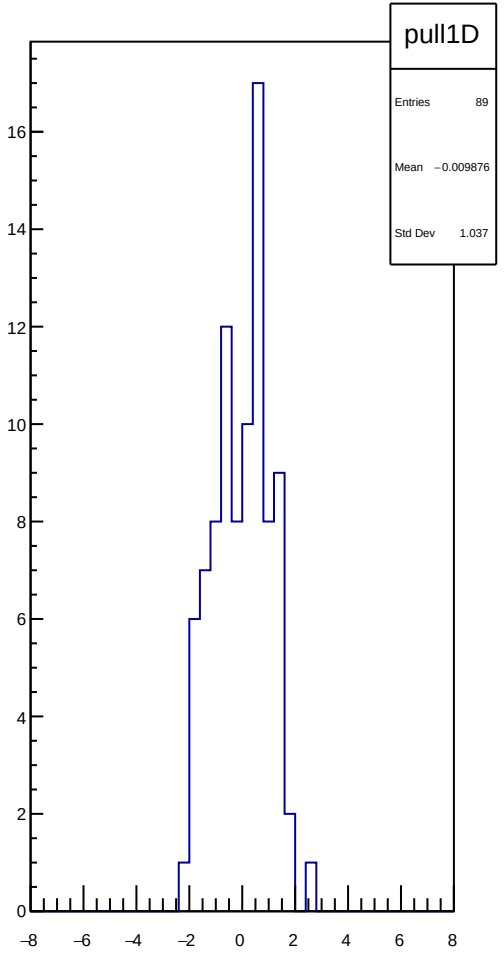

diff_bpm16X_rms vs run
χ² / ndf 4277 / 88
p0 5360 ± 4.133
6000
5800
5600
5400
5200
5000
4800
4600

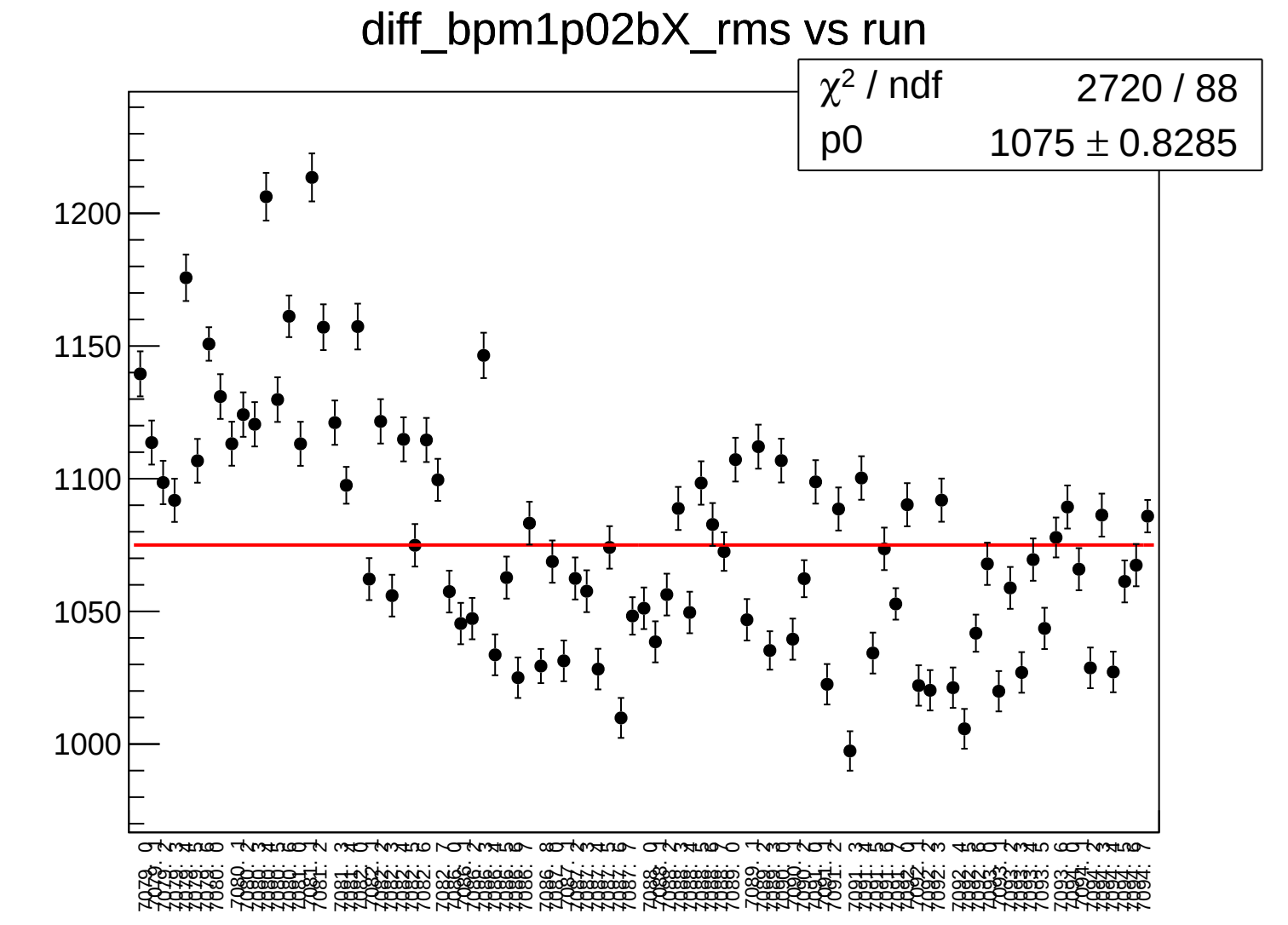

diff_bpm16Y_mean vs run
χ² / ndf 73.01 / 88
p0 4.706 ± 5.832
pull
Entries 89
Mean −517.8
Std Dev 0

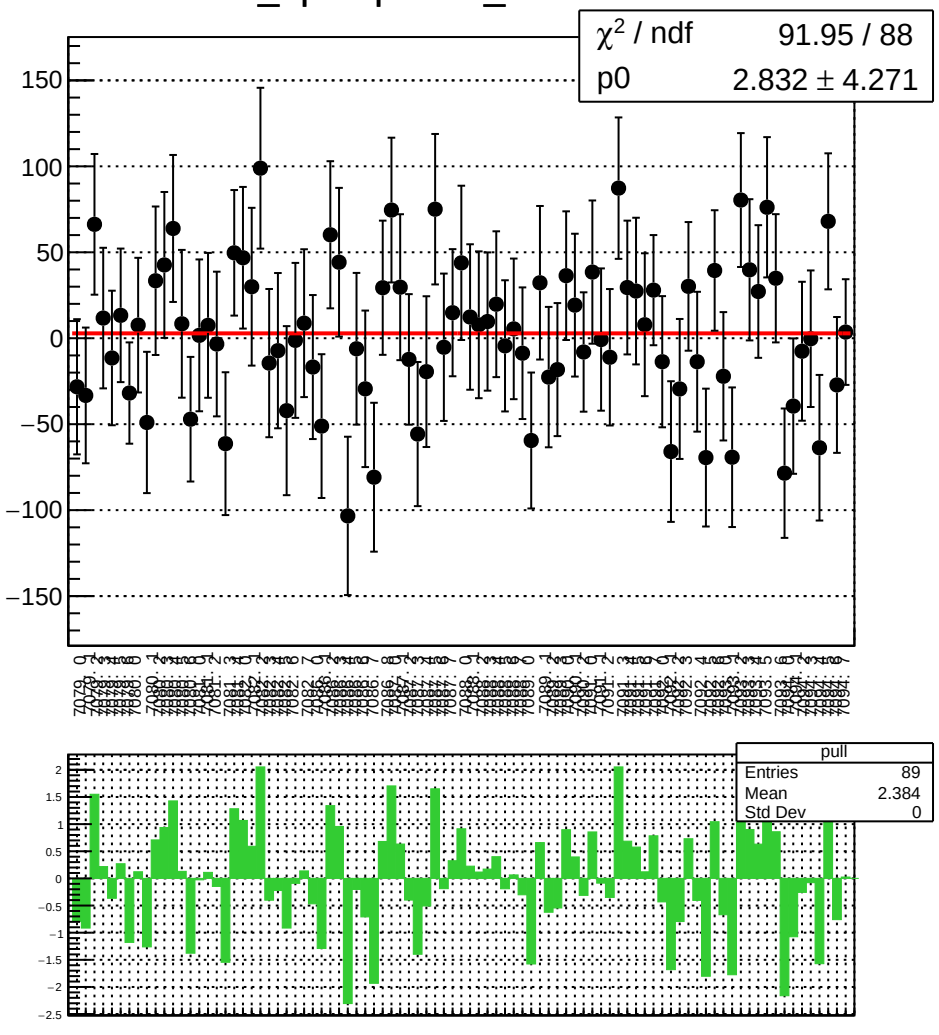

pull1D
Entries 89
Mean 0.006445
Std Dev 0.9057

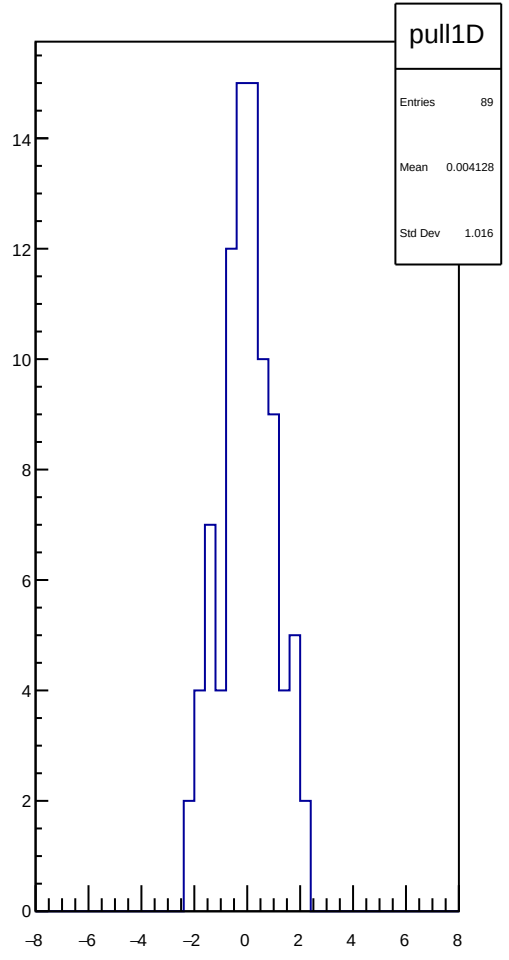

diff_bpm16Y_rms vs run
χ^2 / ndf 9371 / 88
p0 5340 ± 4.124
6500
6000
5500
5000
4500

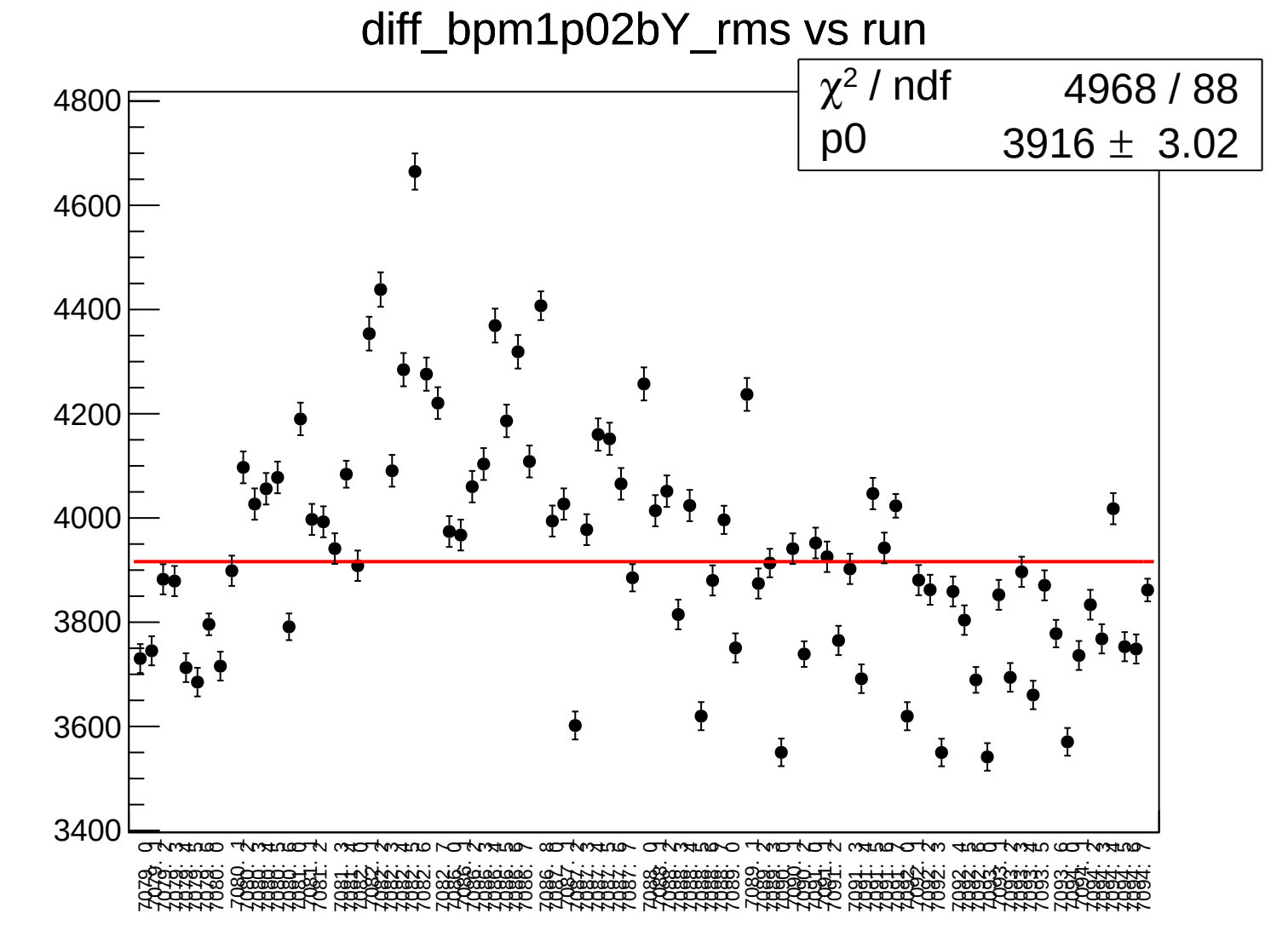

diff_bpm1p02bX_mean vs run
χ² / ndf 95.68 / 88
p0 0.1467 ± 1.172
pull
Entries 89
Mean −205.2
Std Dev 0

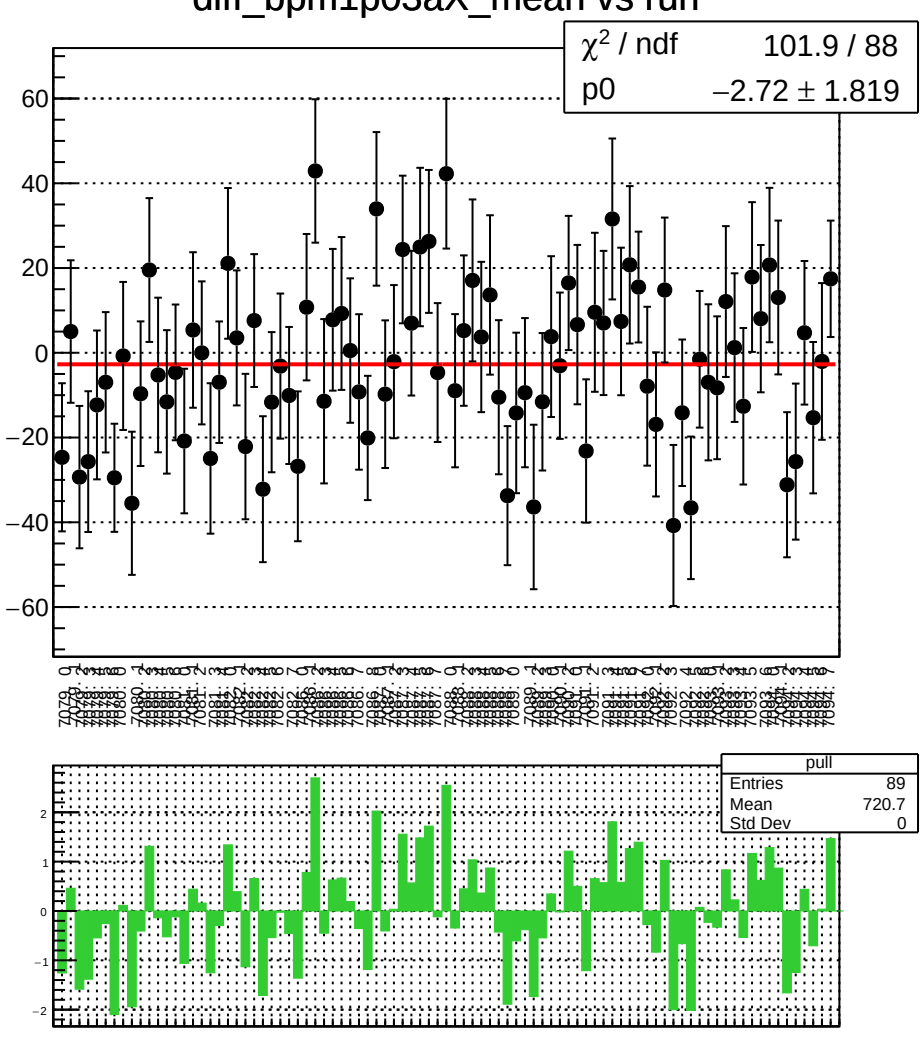

pull1D
Entries 89
Mean −0.009876
Std Dev 1.037

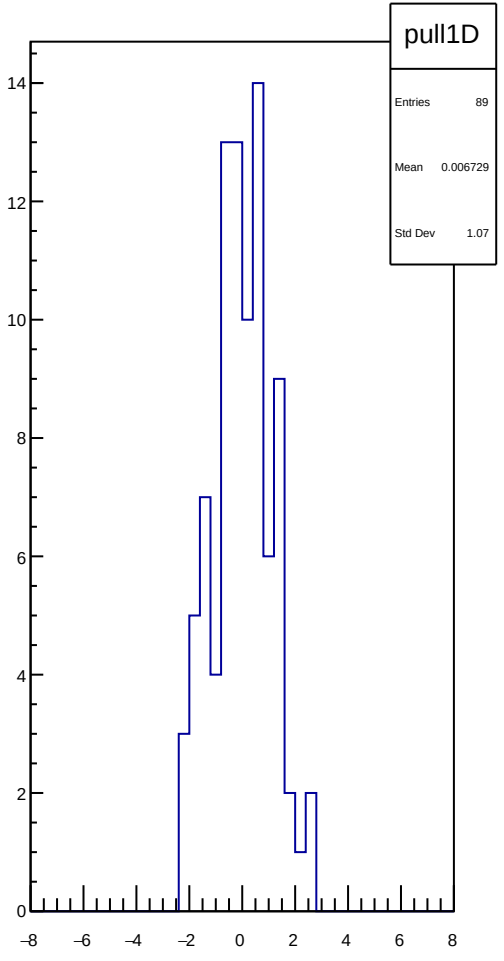

diff_bpm1p02bX_rms vs run
χ² / ndf 2720 / 88
p0 1075 ± 0.8285
1200
1150
1100
1050
1000

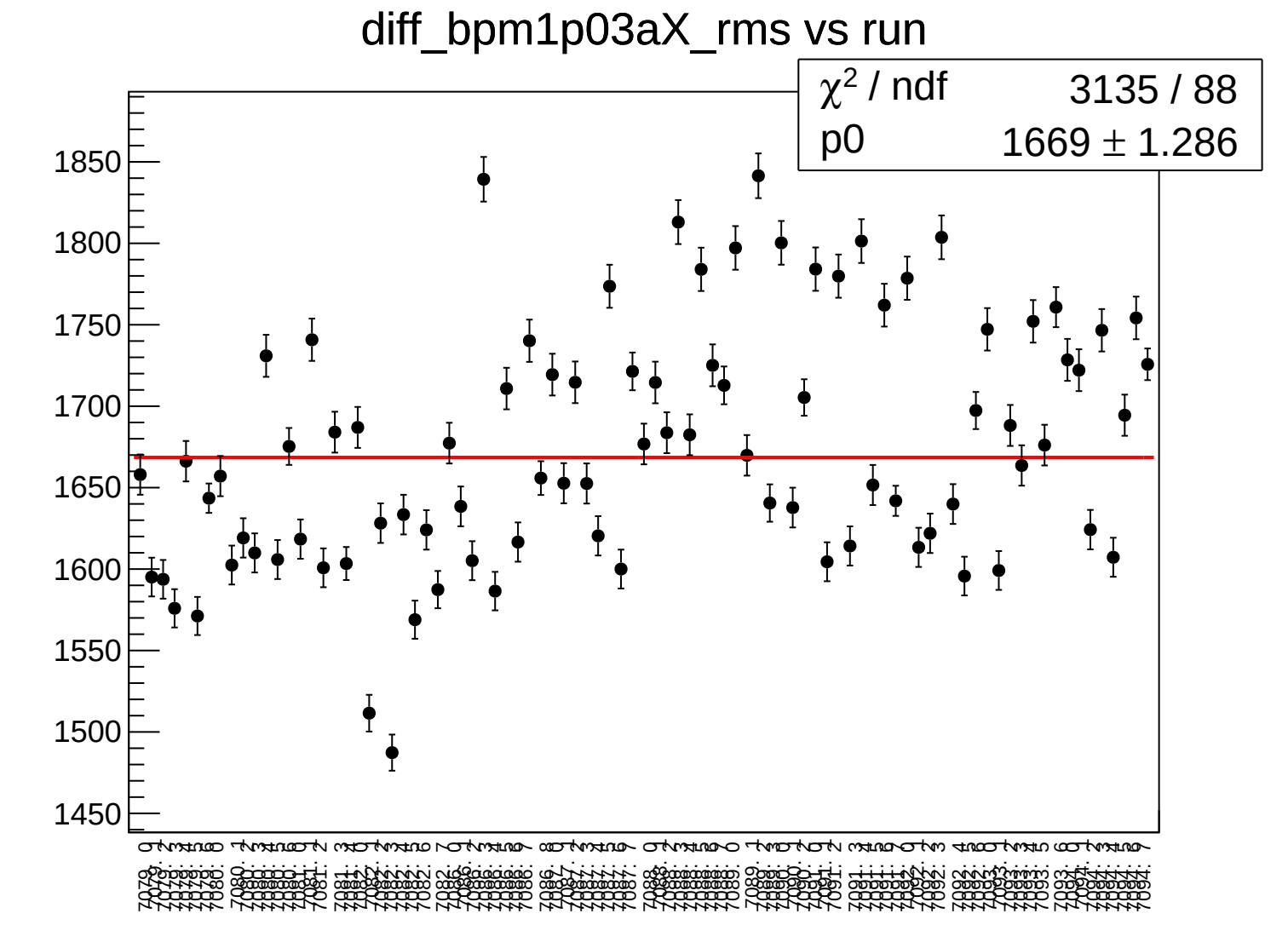

diff_bpm1p02bY_mean vs run
χ^2 / ndf 91.95 / 88
p0 2.832 ± 4.271
pull
Entries 89
Mean 2.384
Std Dev 0

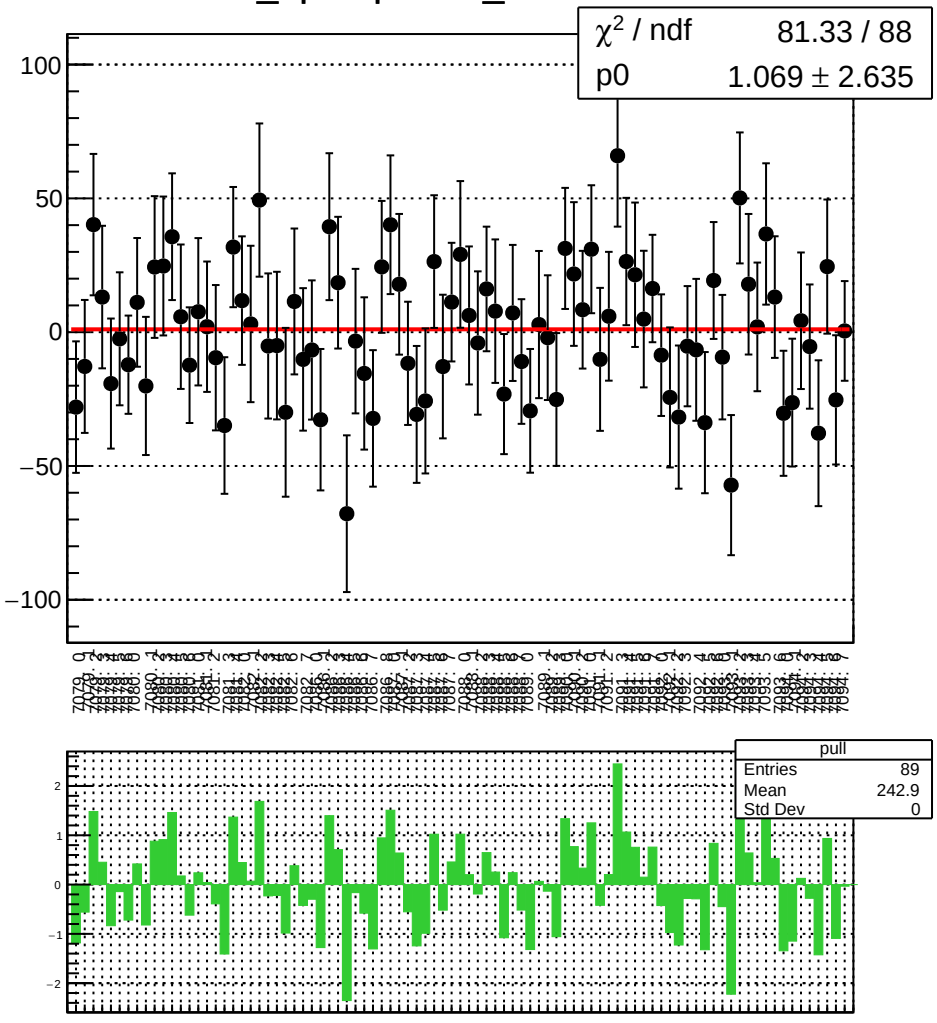

pull1D
Entries 89
Mean 0.004128
Std Dev 1.016

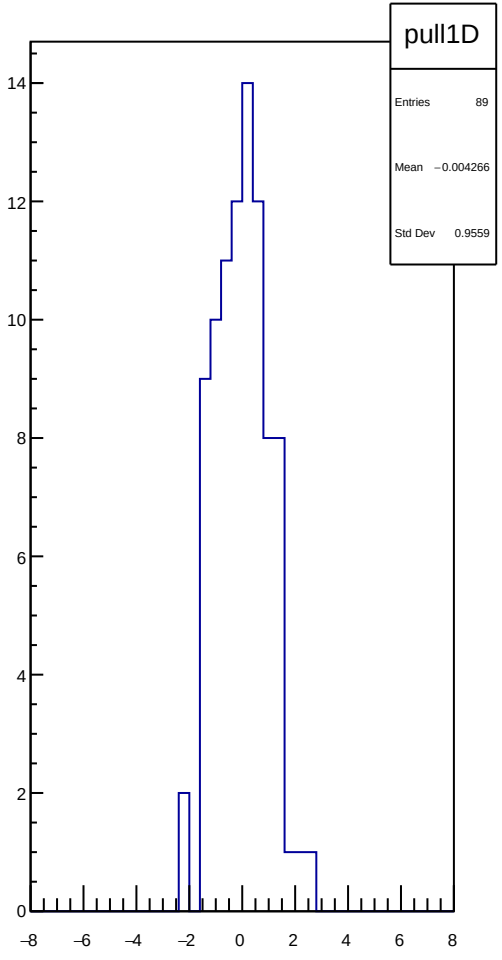

diff_bpm1p02bY_rms vs run
χ² / ndf 4968 / 88
p0 3916 ± 3.02
4800
4600
4400
4200
4000
3800
3600
3400

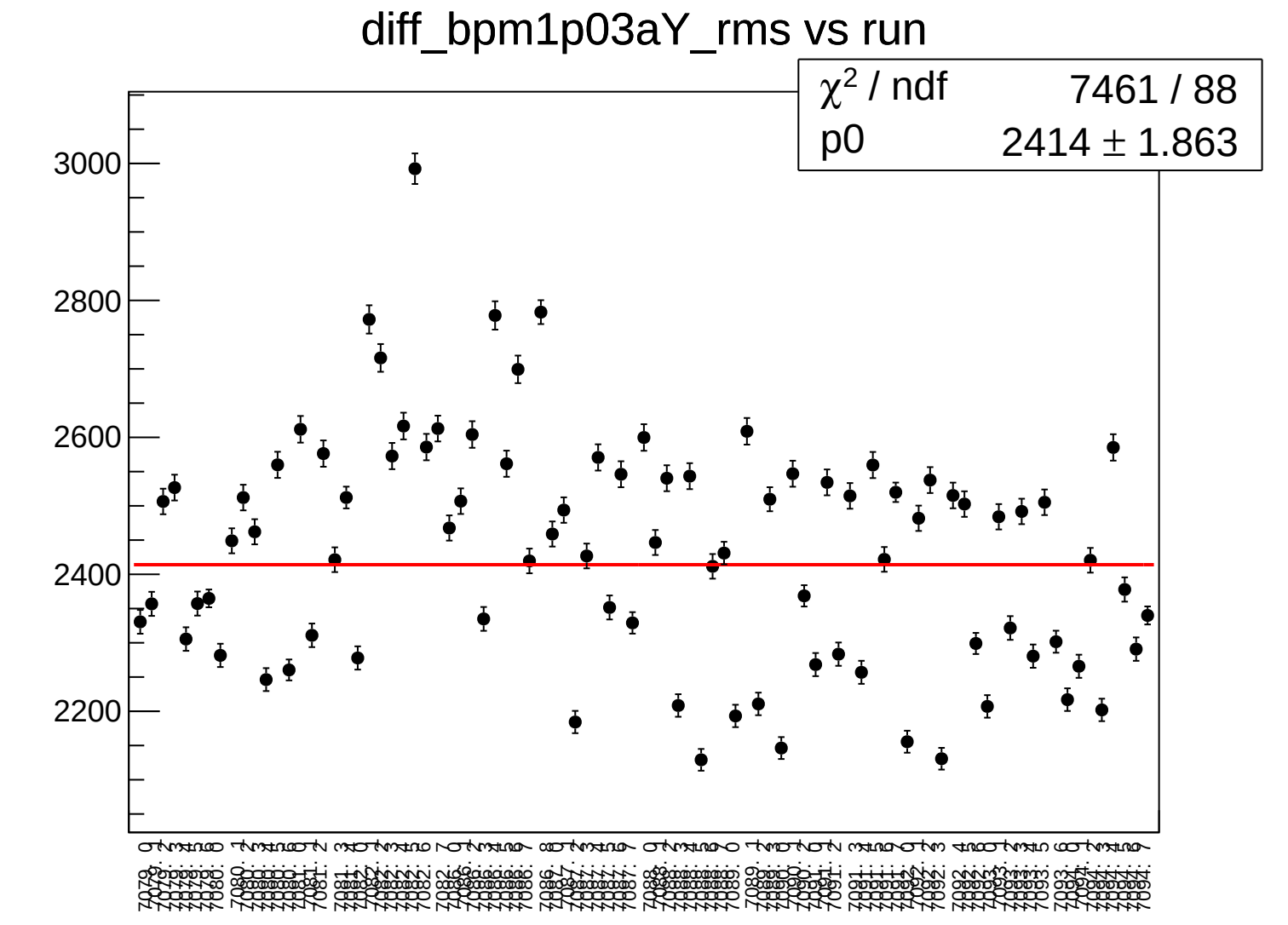

diff_bpm1p03aX_mean vs run
χ² / ndf 101.9 / 88
p0 −2.72 ± 1.819
pull
Entries 89
Mean 720.7
Std Dev 0

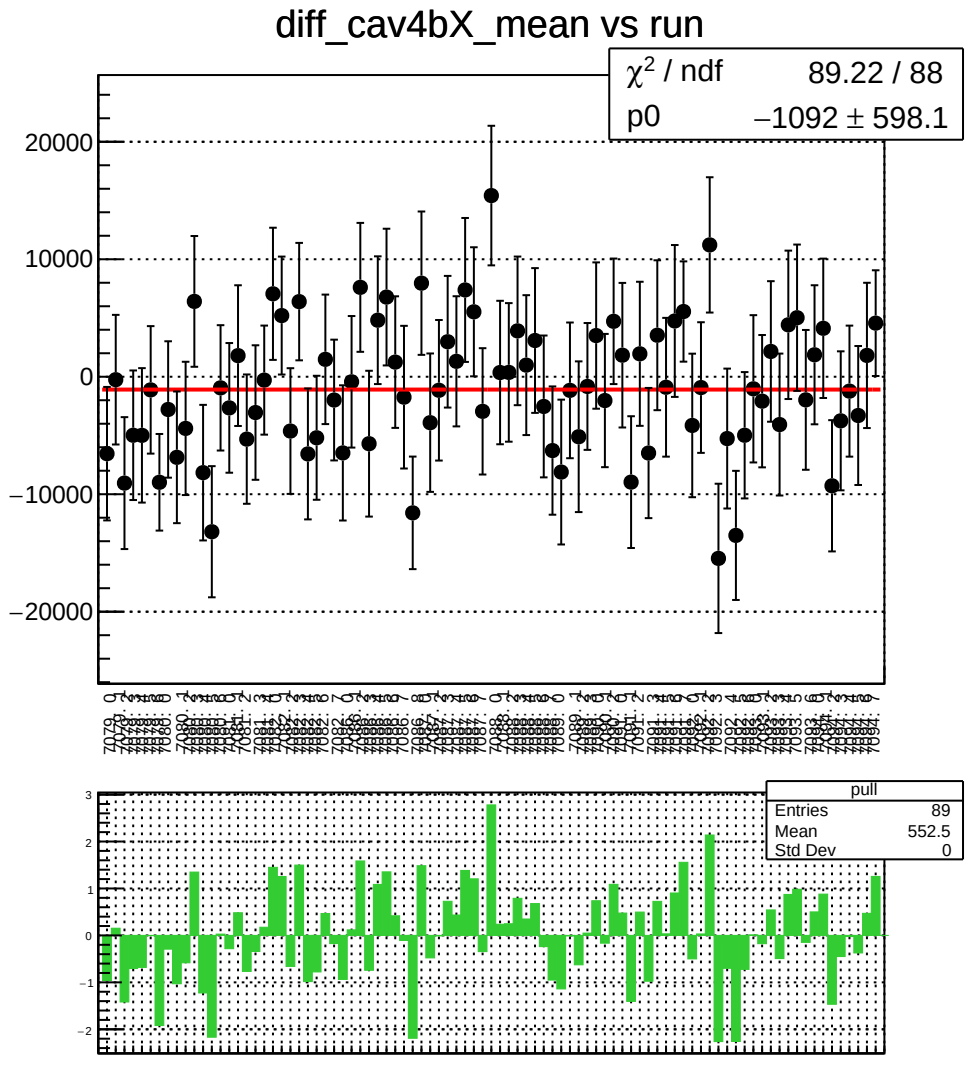

pull1D
Entries 89
Mean 0.006729
Std Dev 1.07

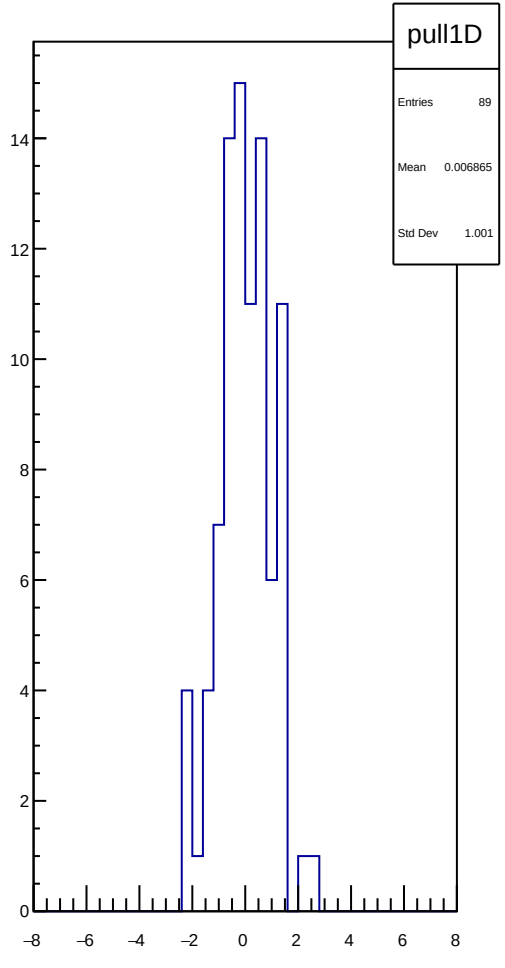

diff_bpm1p03aX_rms vs run
χ² / ndf 3135 / 88
p0 1669 ± 1.286
1850
1800
1750
1700
1650
1600
1550
1500
1450

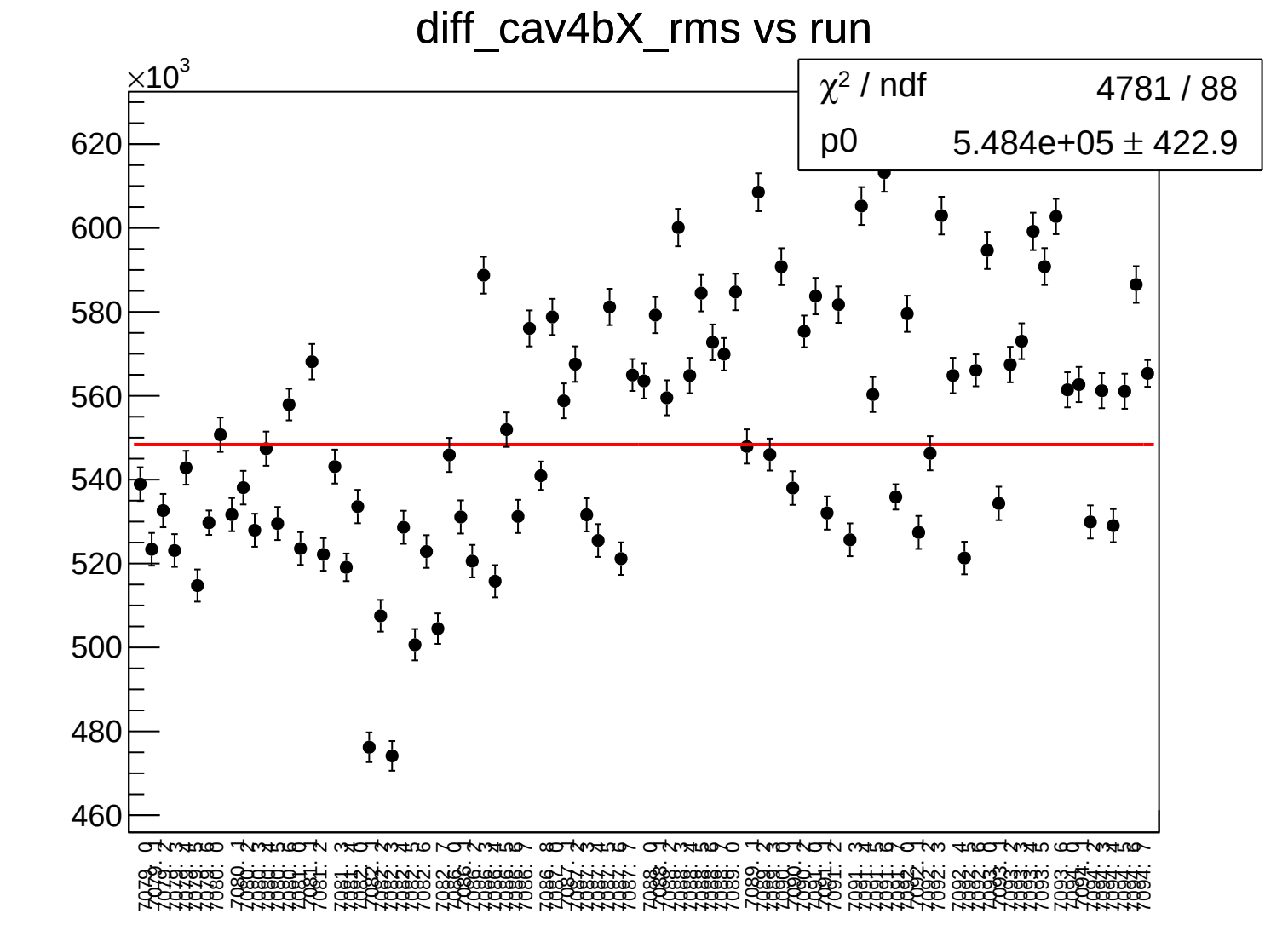

diff_bpm1p03aY_mean vs run
χ^2 / ndf 81.33 / 88
p0 1.069 ± 2.635
100
50
0
−50
−100
pull
Entries 89
Mean 242.9
Std Dev 0
2
1
0
−1
−2

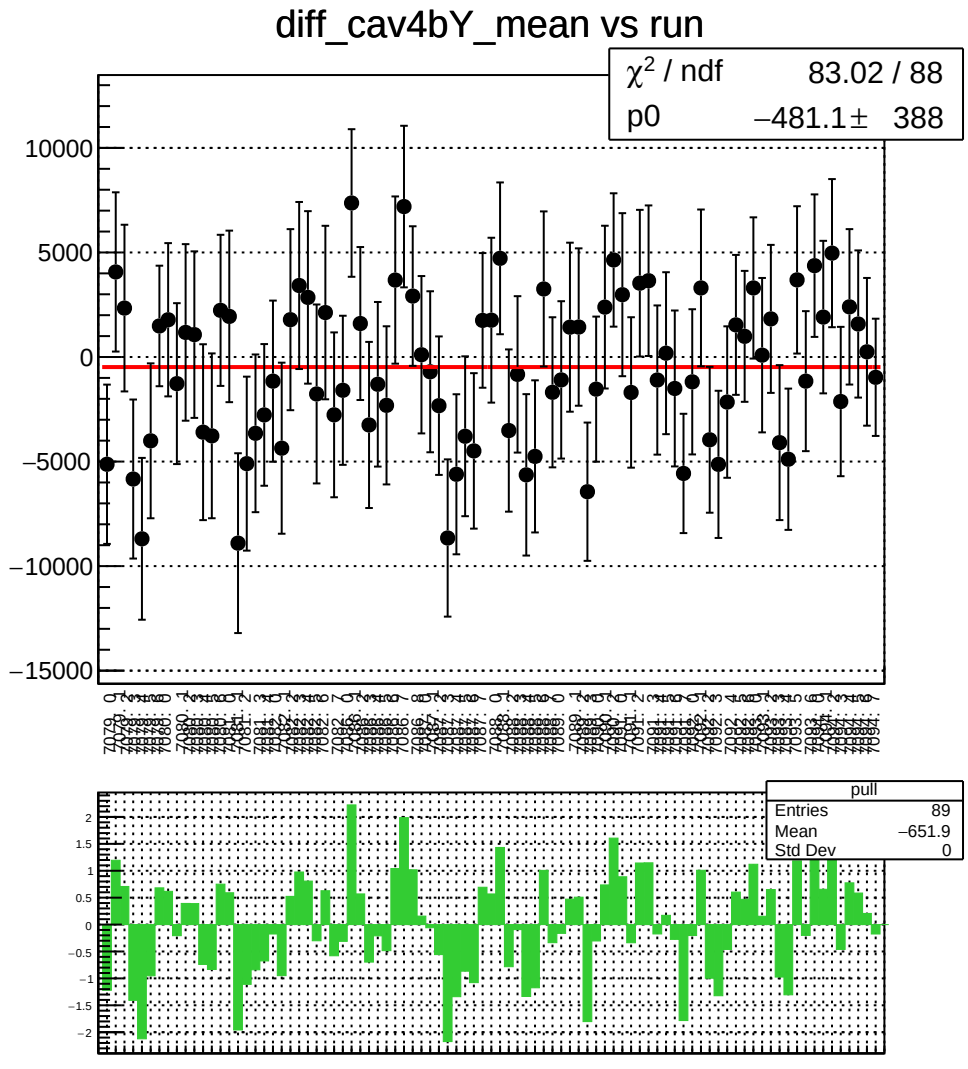

pull1D
Entries 89
Mean −0.004266
Std Dev 0.9559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

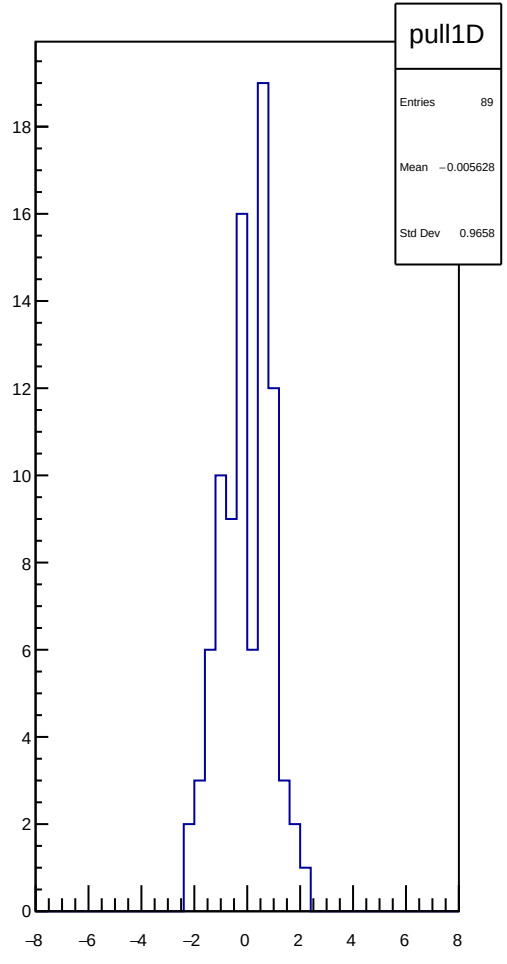

diff_bpm1p03aY_rms vs run
χ² / ndf 7461 / 88
p0 2414 ± 1.863
3000
2800
2600
2400
2200

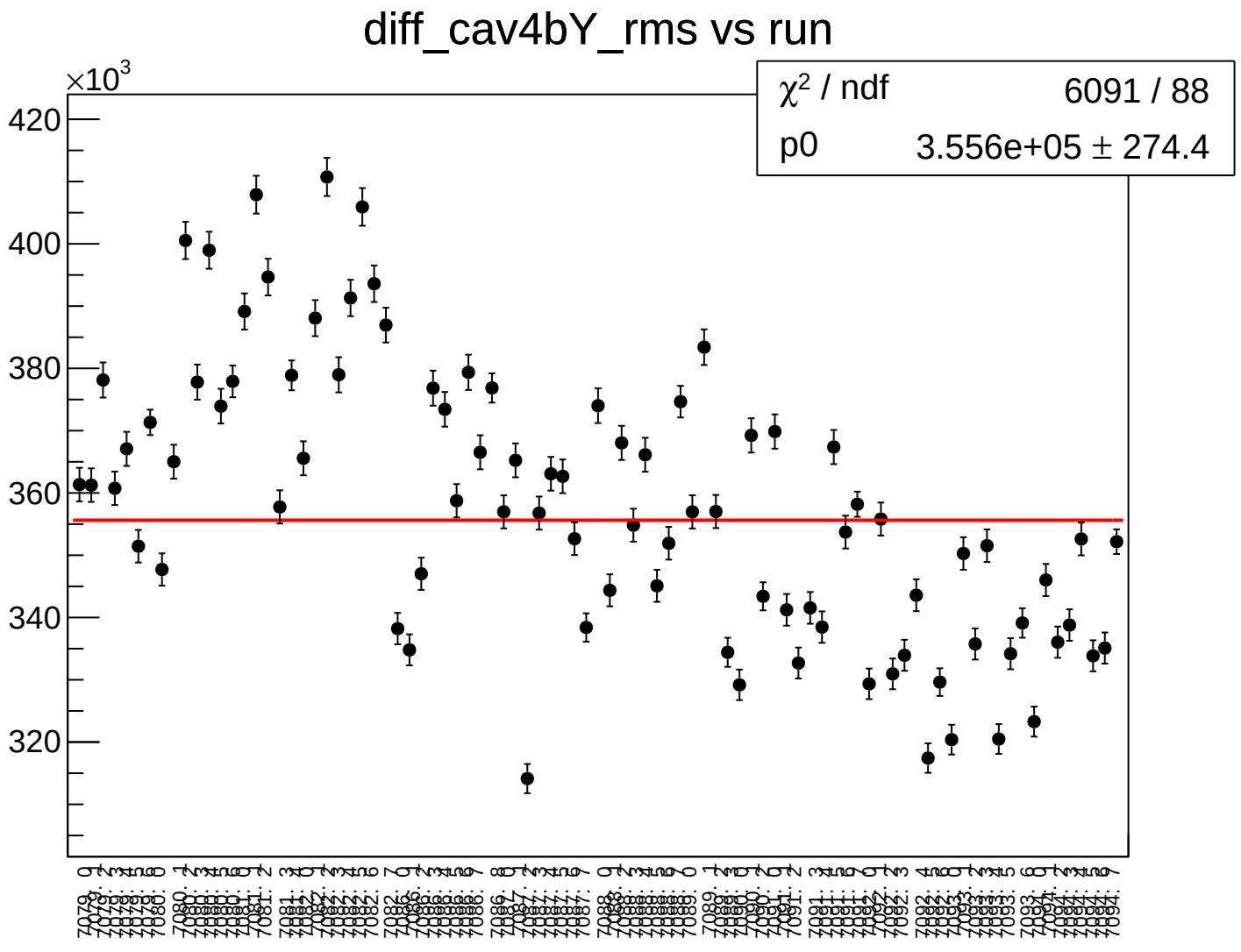

diff_cav4bX_mean vs run
χ^2 / ndf 89.22 / 88
p0 −1092 ± 598.1
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 552.5
Std Dev 0
3
2
1
0
−1
−2

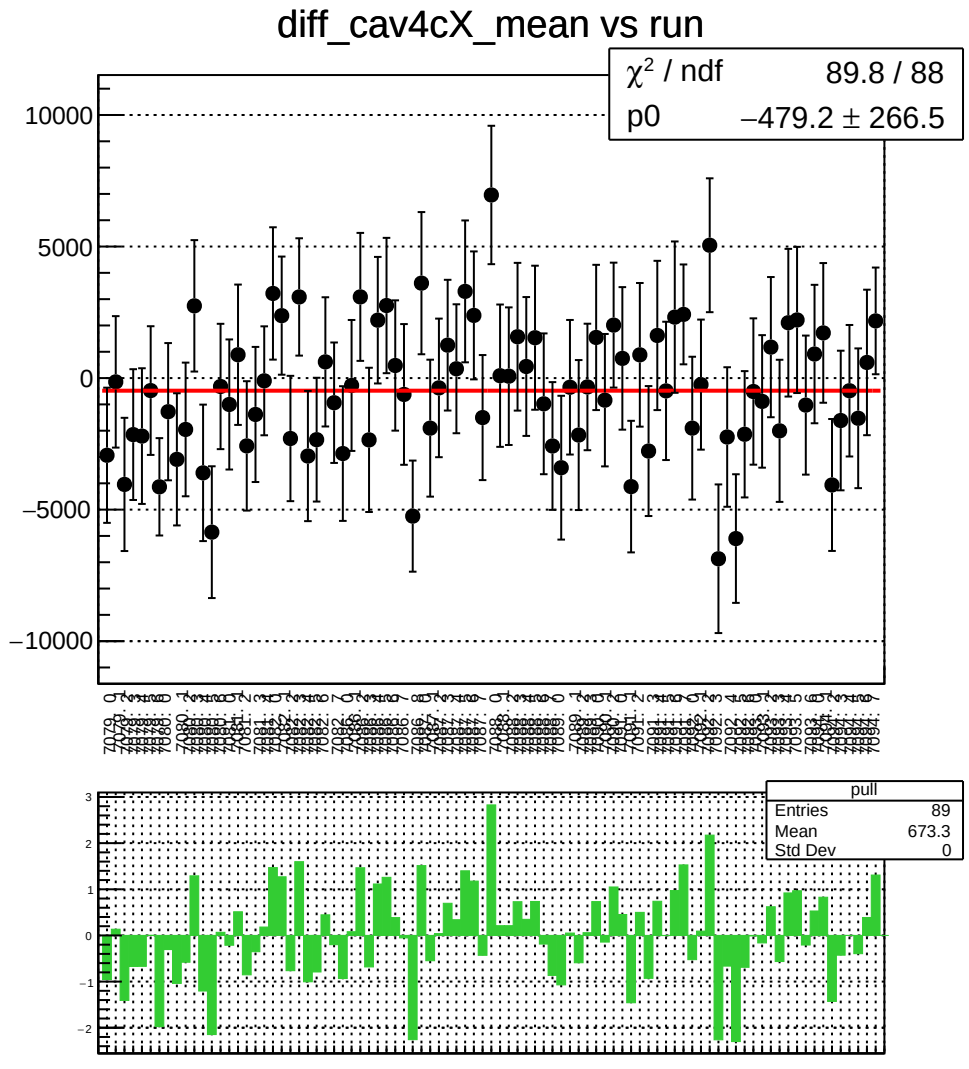

pull1D
Entries 89
Mean 0.006865
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

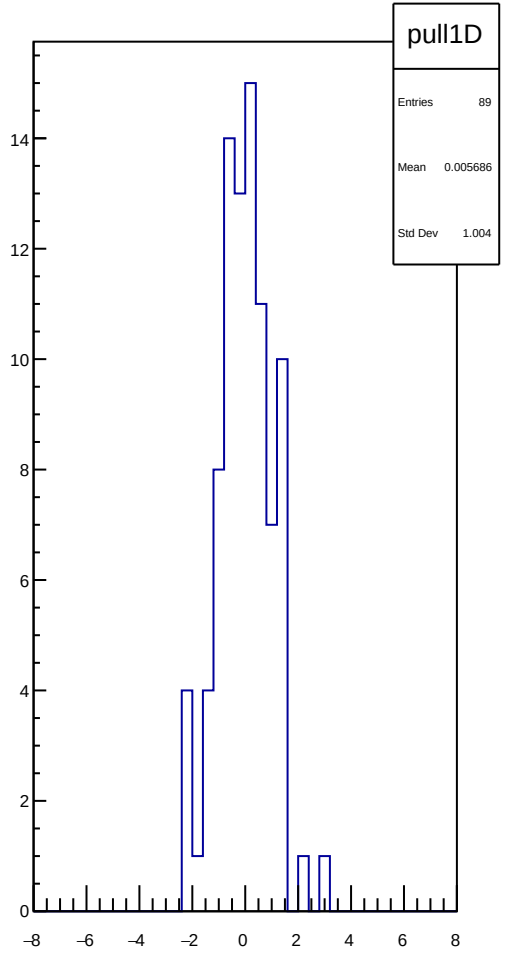

diff_cav4bX_rms vs run
×10^3
620
600
580
560
540
520
500
480
460
χ² / ndf 4781 / 88
p0 5.484e+05 ± 422.9

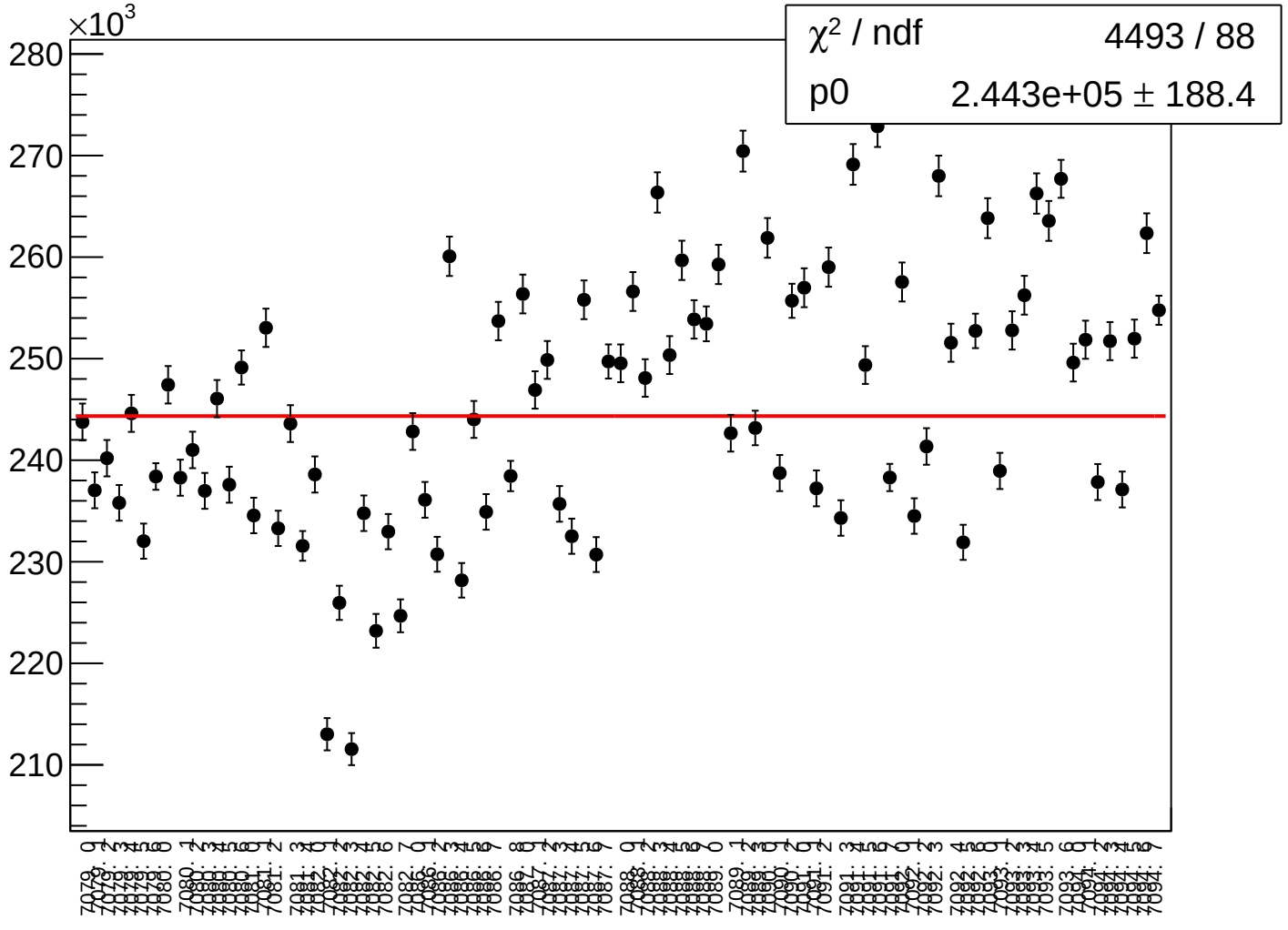

diff_cav4bY_mean vs run
χ² / ndf 83.02 / 88
p0 −481.1± 388
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −651.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

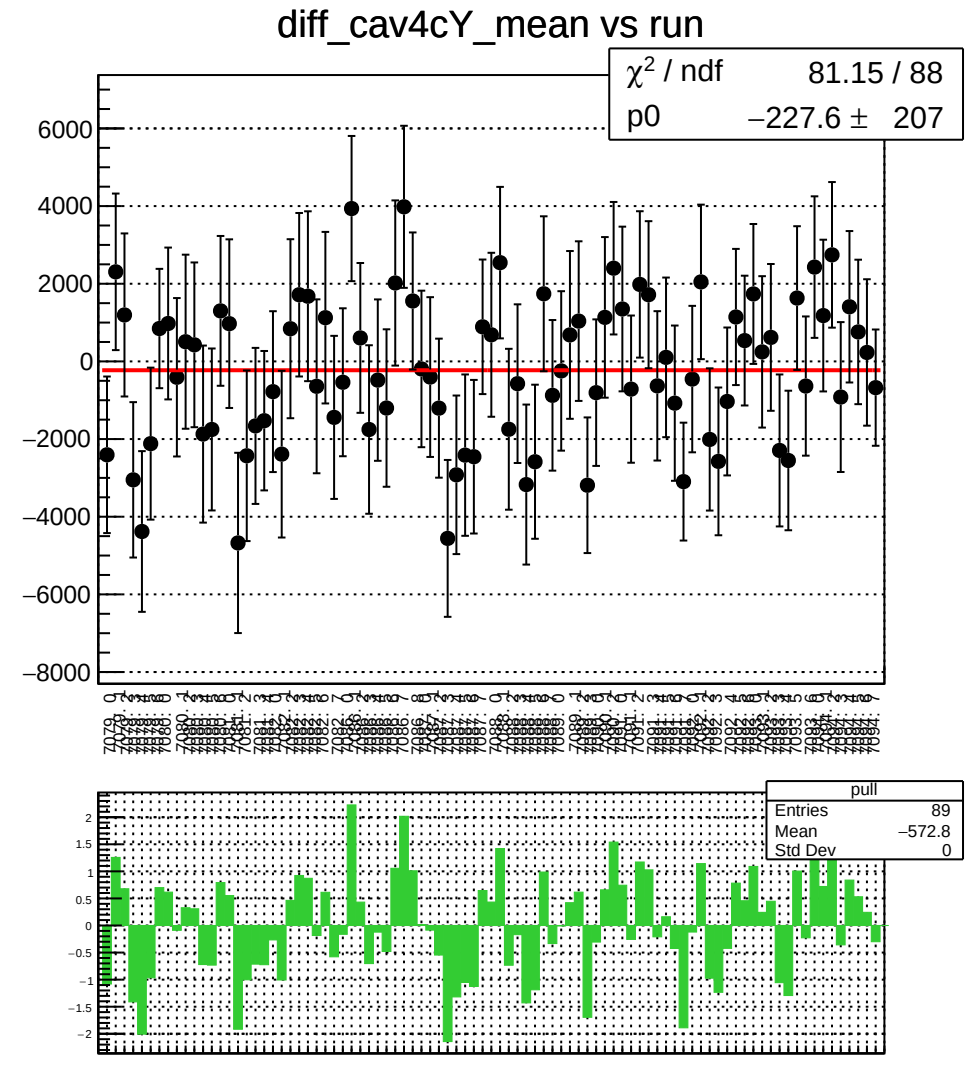

pull1D
Entries 89
Mean −0.005628
Std Dev 0.9658
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

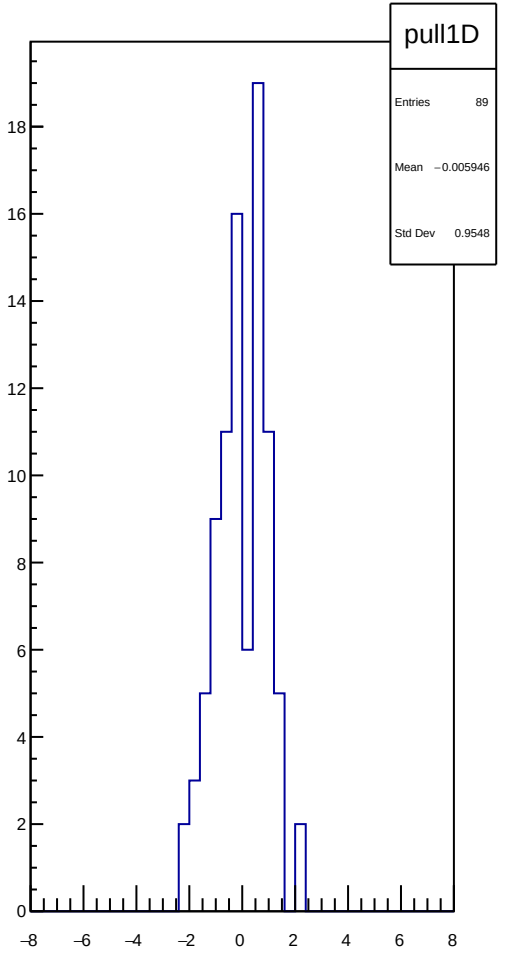

diff_cav4bY_rms vs run
×10^3
420
400
380
360
340
320
χ² / ndf 6091 / 88
p0 3.556e+05 ± 274.4

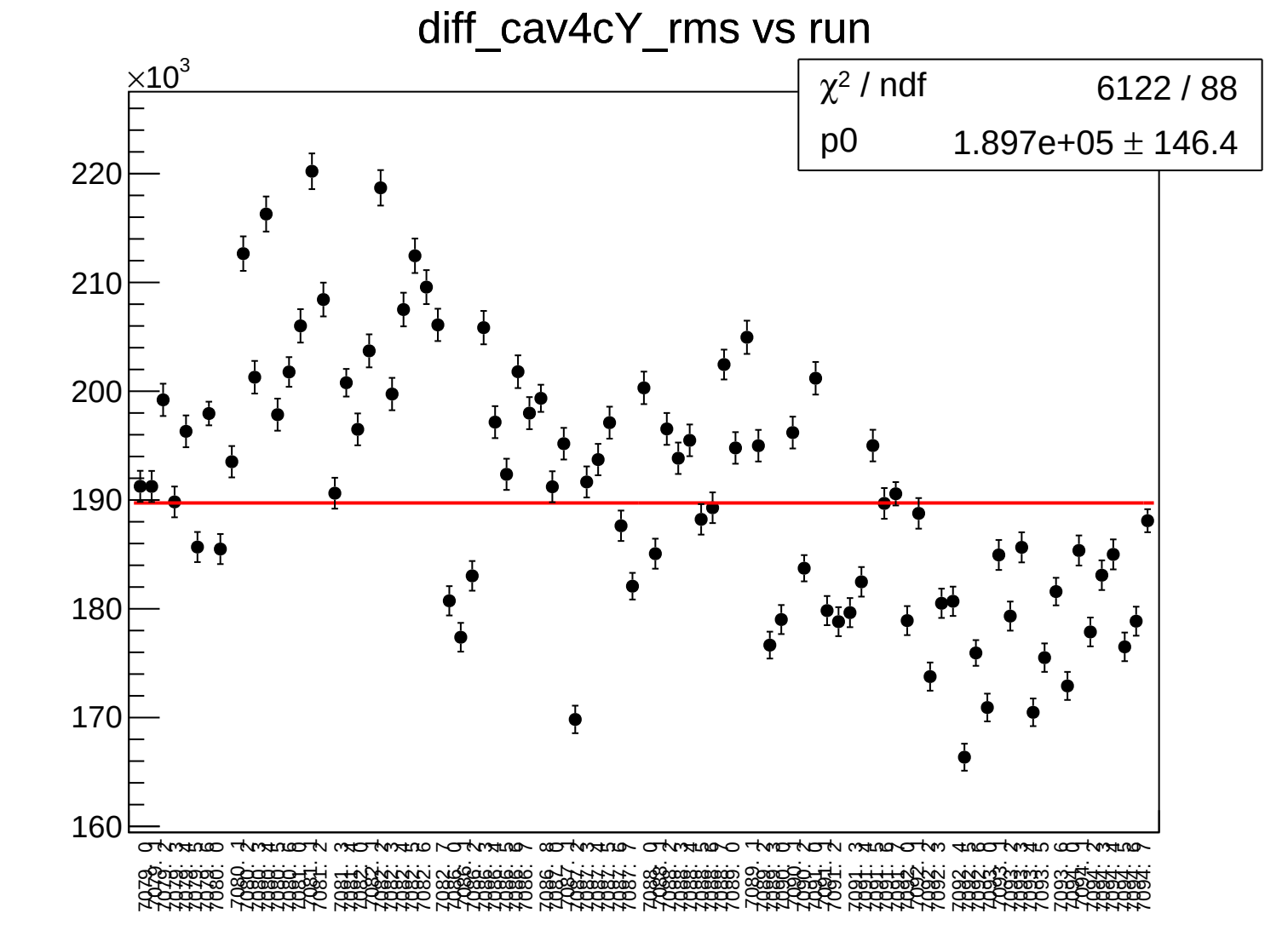

diff_cav4cX_mean vs run
χ² / ndf 89.8 / 88
p0 −479.2 ± 266.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 673.3
Std Dev 0
3
2
1
0
−1
−2

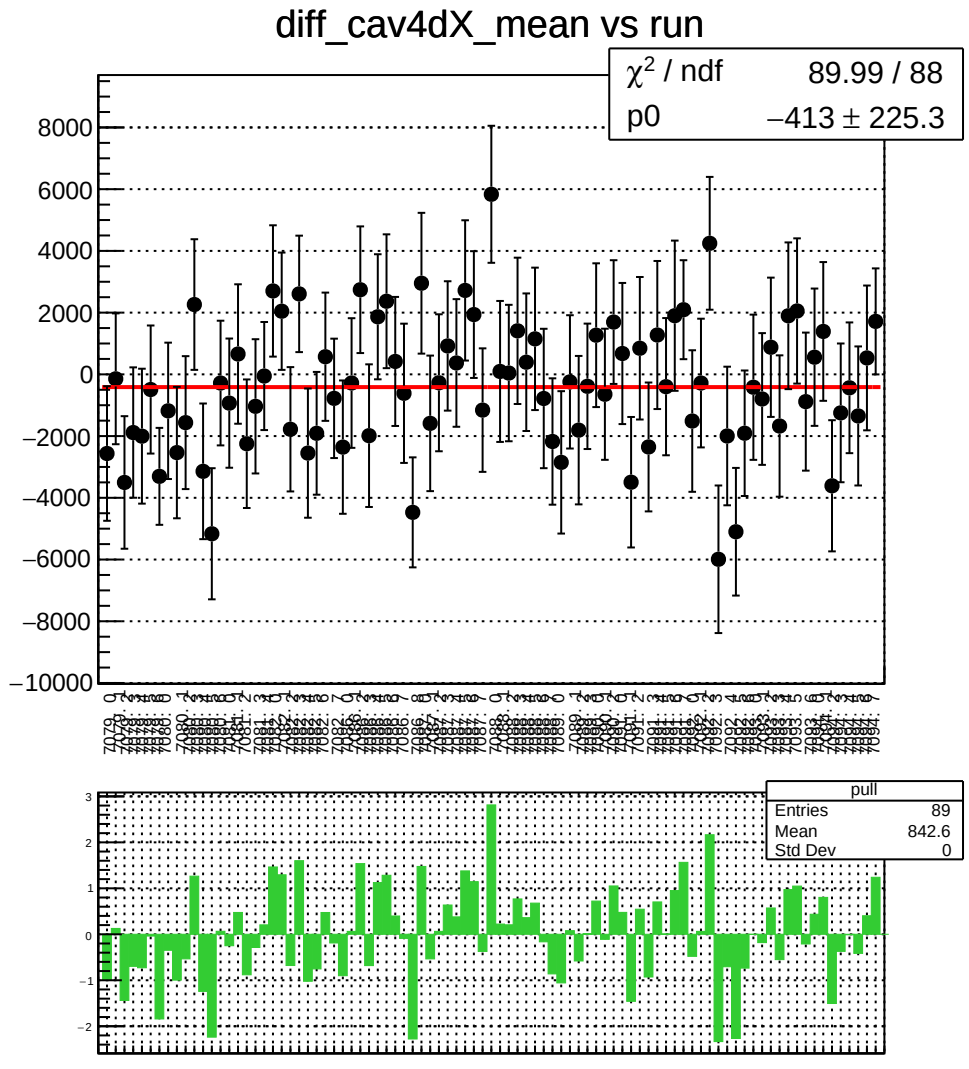

pull1D
Entries 89
Mean 0.005686
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

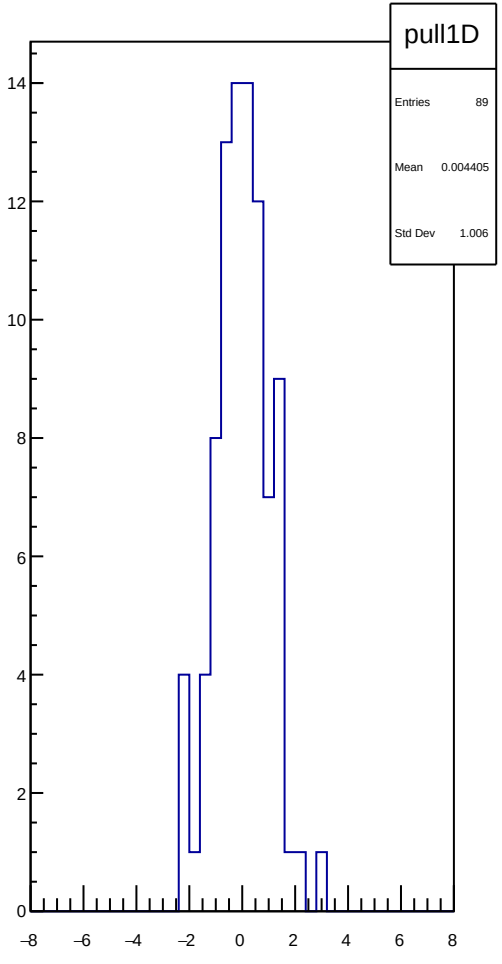

diff_cav4cX_rms vs run
×10^3
280
270
260
250
240
230
220
210
χ² / ndf 4493 / 88
p0 2.443e+05 ± 188.4

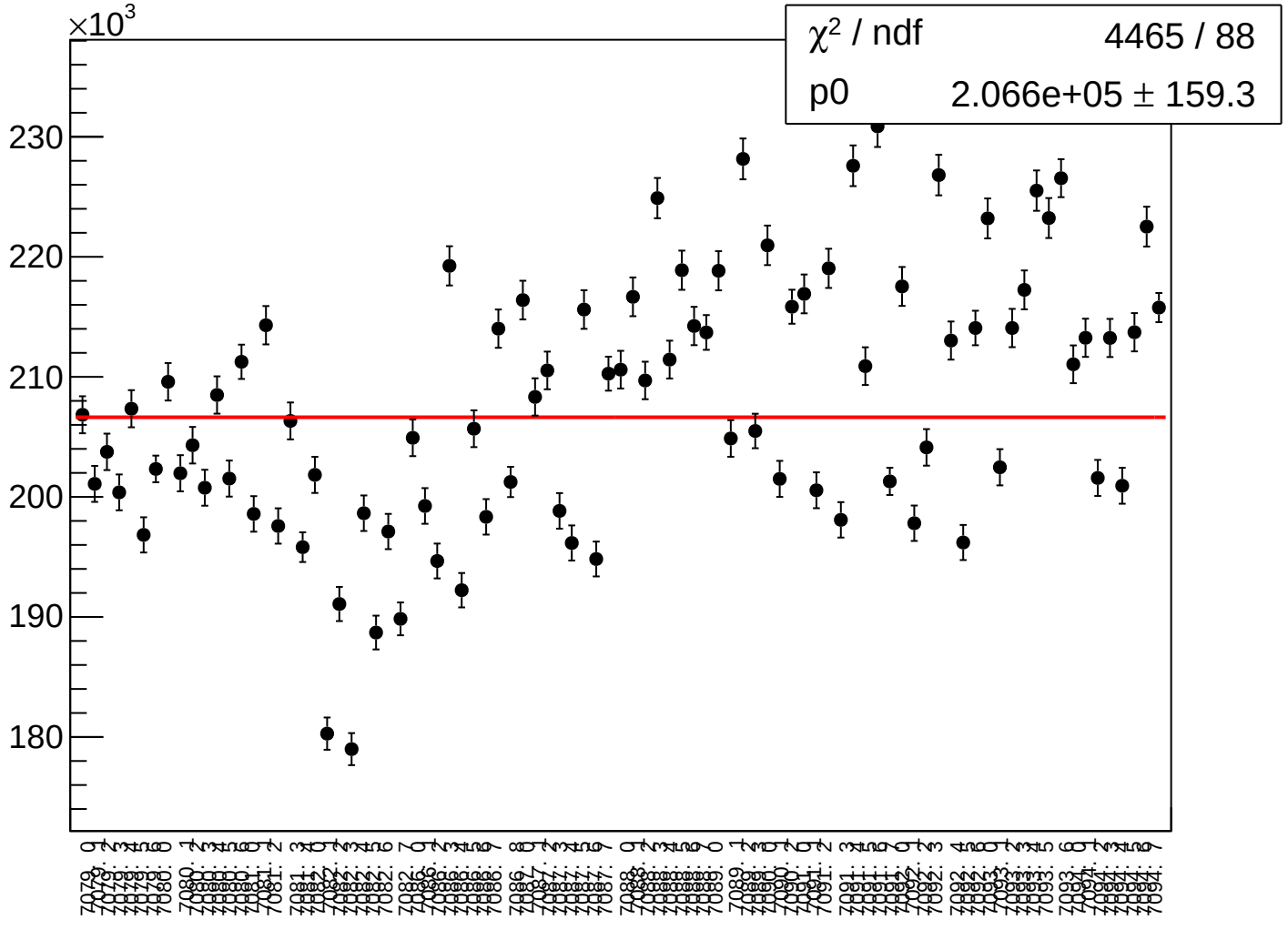

diff_cav4cY_mean vs run
χ² / ndf 81.15 / 88
p0 −227.6 ± 207
pull
Entries 89
Mean −572.8
Std Dev 0

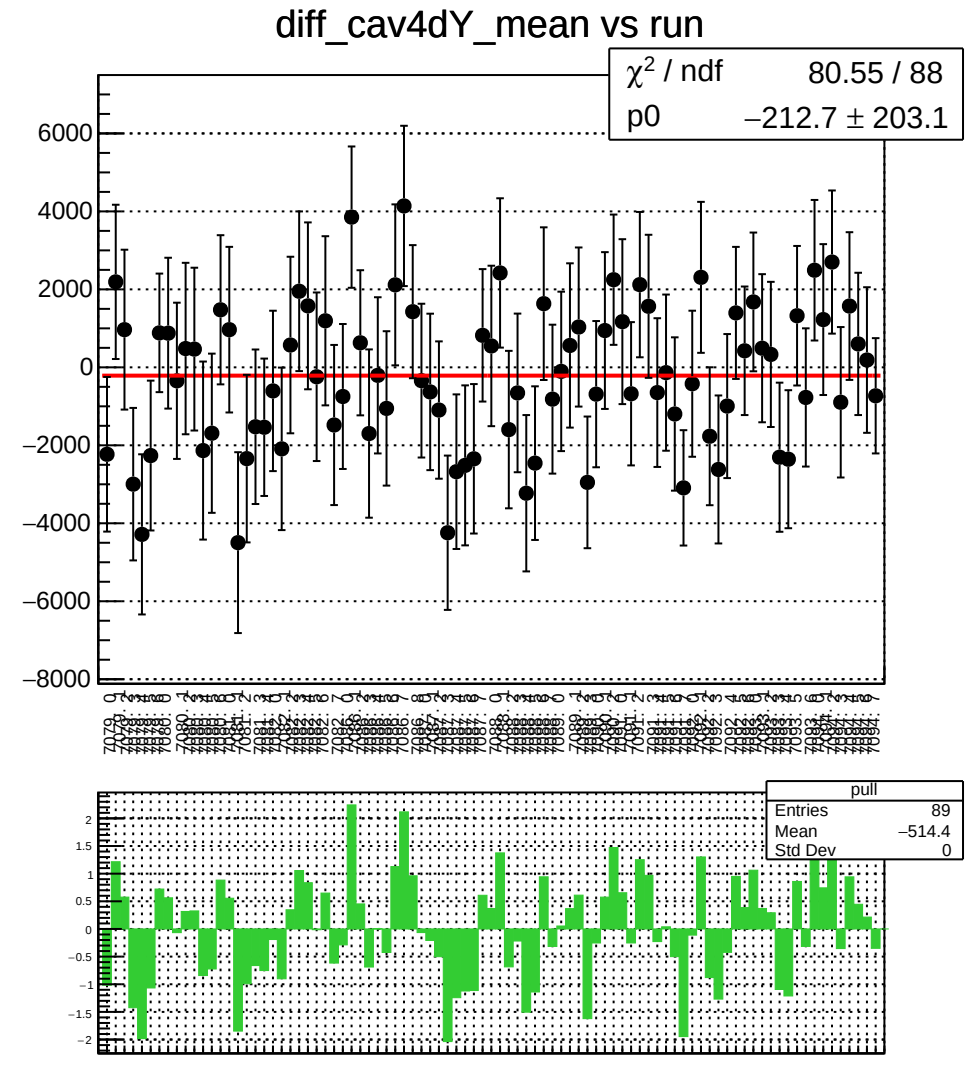

pull1D
Entries 89
Mean −0.005946
Std Dev 0.9548

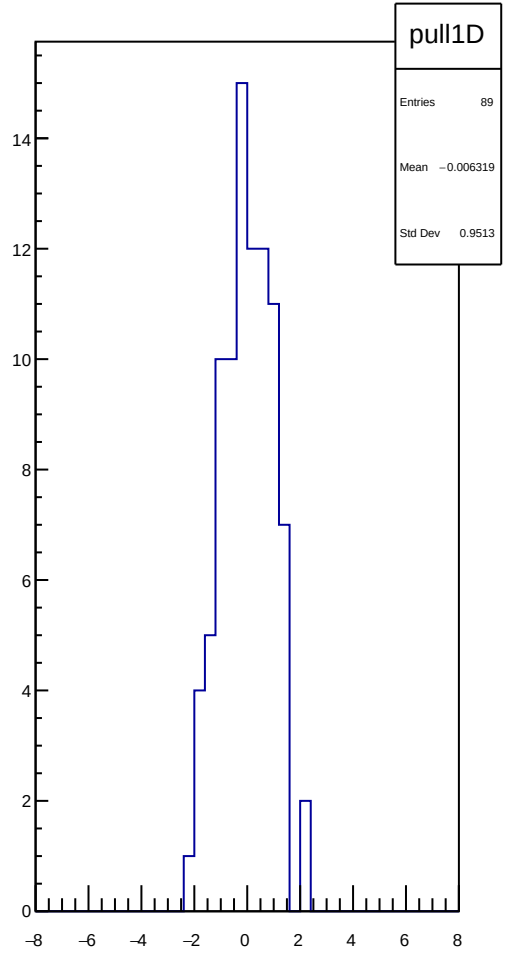

diff_cav4cY_rms vs run
×10^3
χ² / ndf 6122 / 88
p0 1.897e+05 ± 146.4
220
210
200
190
180
170
160

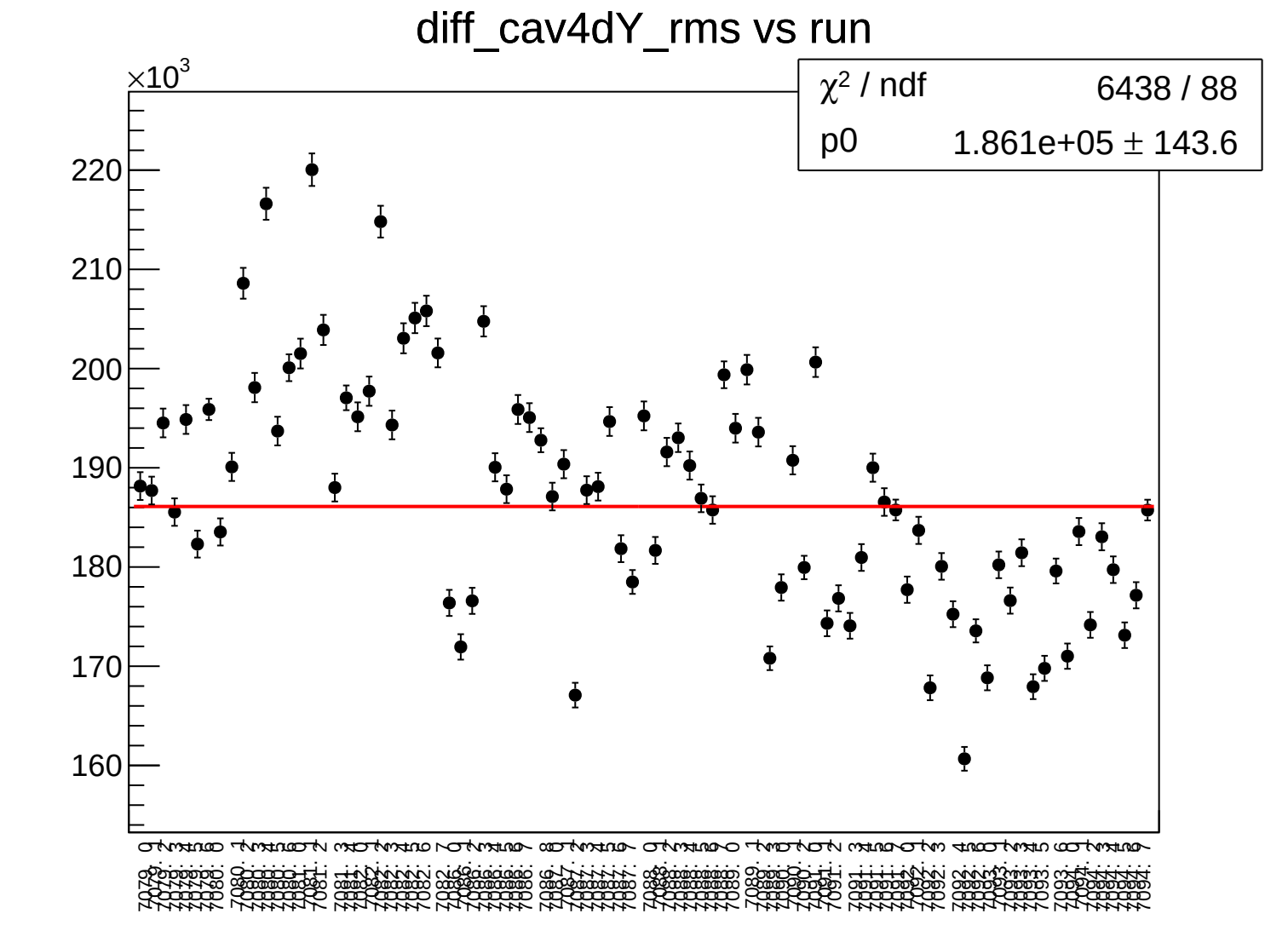

diff_cav4dX_mean vs run
χ^2 / ndf 89.99 / 88
p0 −413 ± 225.3
pull
Entries 89
Mean 842.6
Std Dev 0

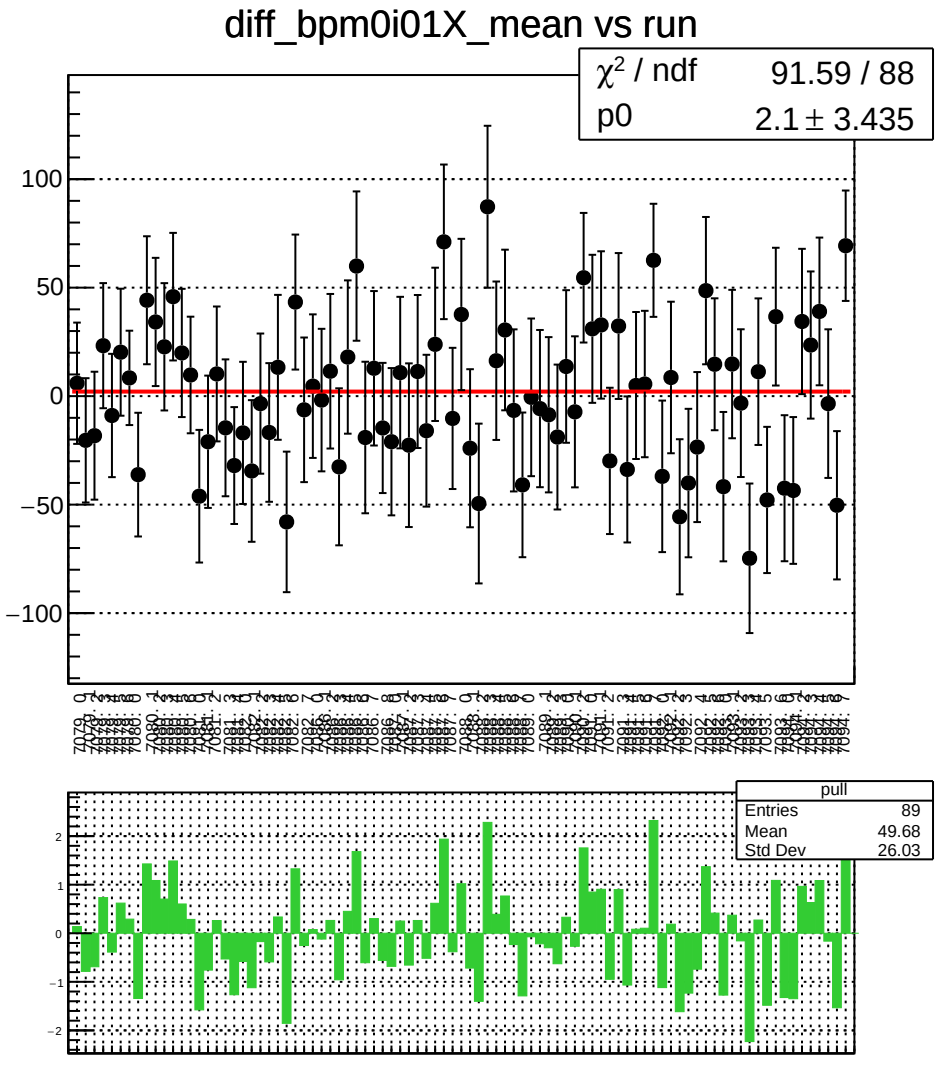

pull1D
Entries 89
Mean 0.004405
Std Dev 1.006

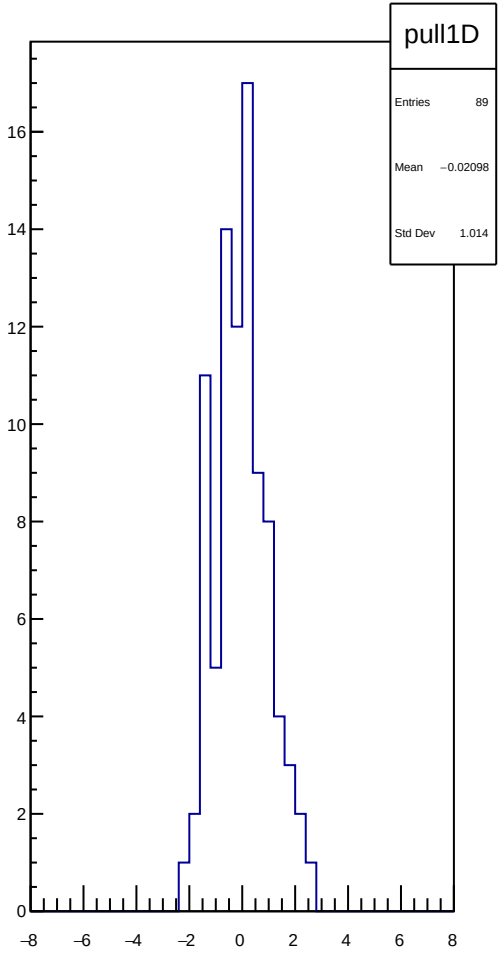

diff_cav4dX_rms vs run
×10^3
230
220
210
200
190
180
χ² / ndf 4465 / 88
p0 2.066e+05 ± 159.3

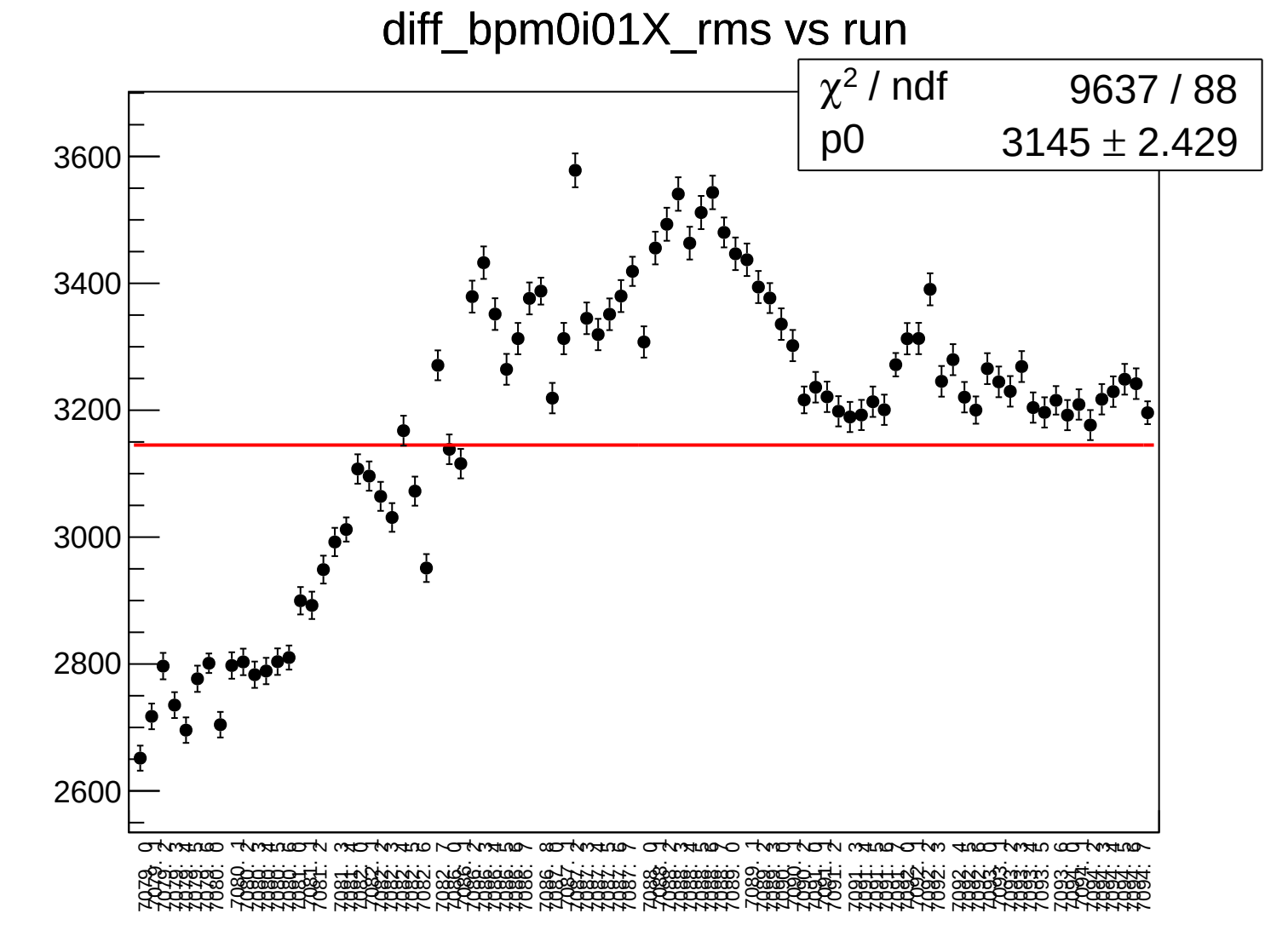

diff_cav4dY_mean vs run
χ² / ndf 80.55 / 88
p0 −212.7 ± 203.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean −514.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

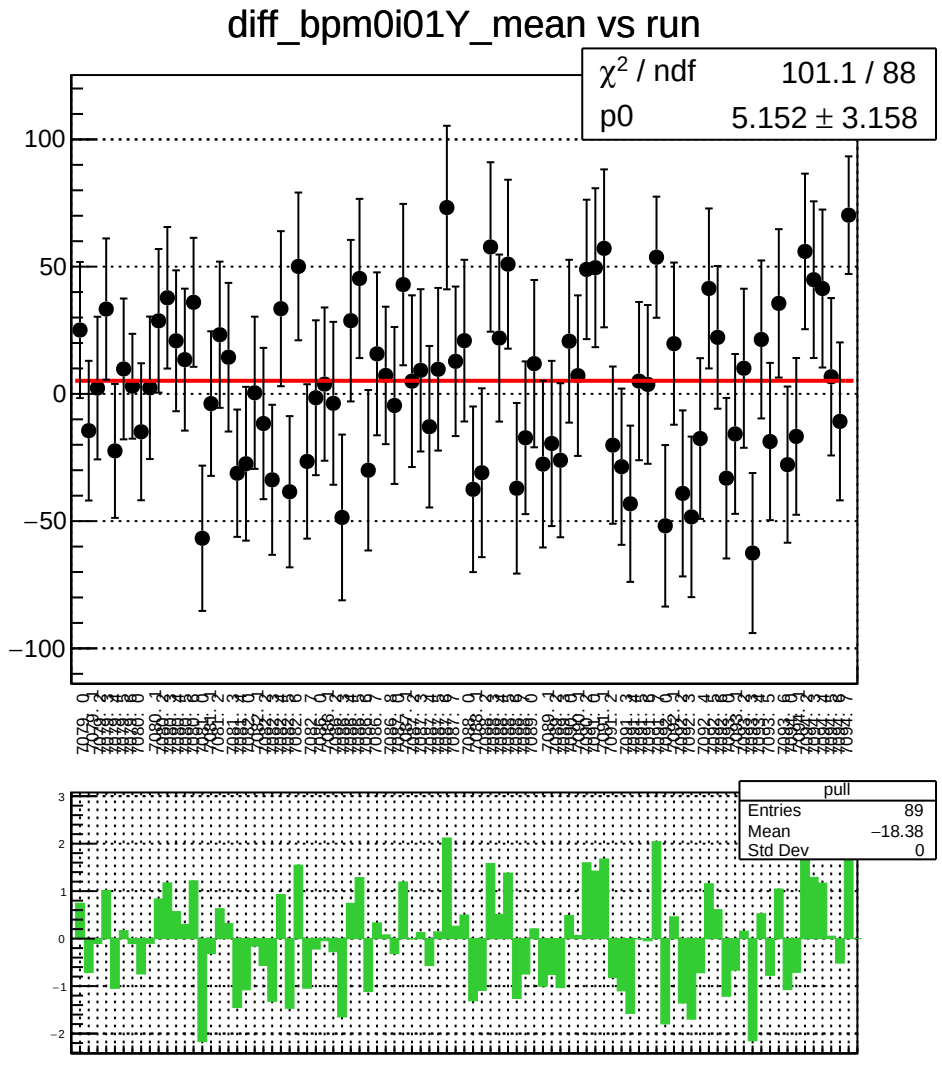

pull1D
Entries 89
Mean −0.006319
Std Dev 0.9513
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

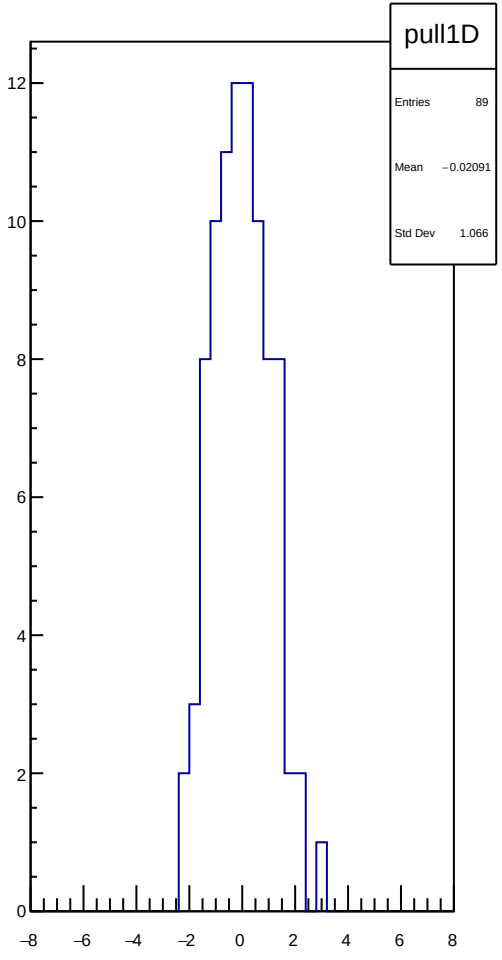

diff_cav4dY_rms vs run
×10^3
χ² / ndf 6438 / 88
p0 1.861e+05 ± 143.6
220
210
200
190
180
170
160

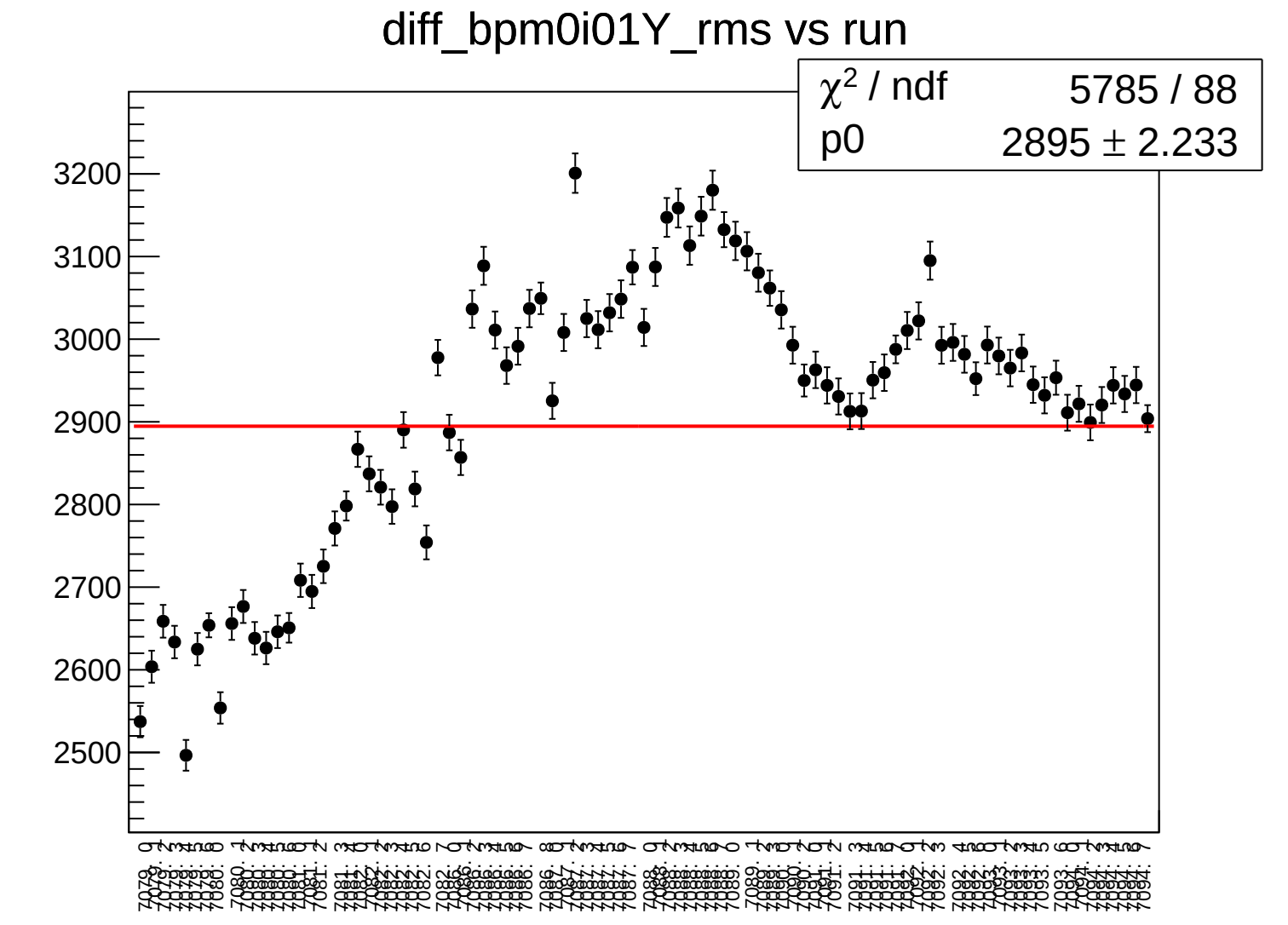

diff_bpm0i01X_mean vs run
χ^2 / ndf 91.59 / 88
p0 2.1 ± 3.435
100
50
0
−50
−100
pull
Entries 89
Mean 49.68
Std Dev 26.03
2
1
0
−1
−2

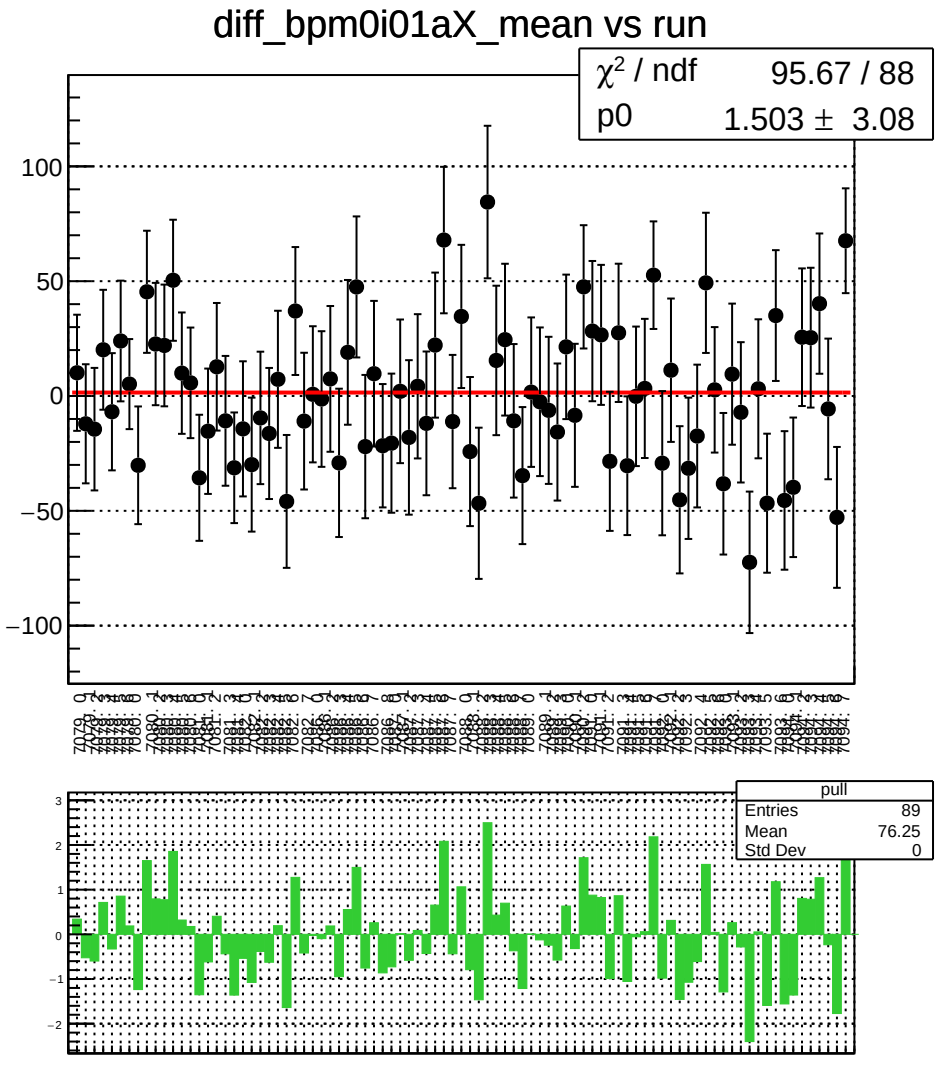

pull1D
Entries 89
Mean −0.02098
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

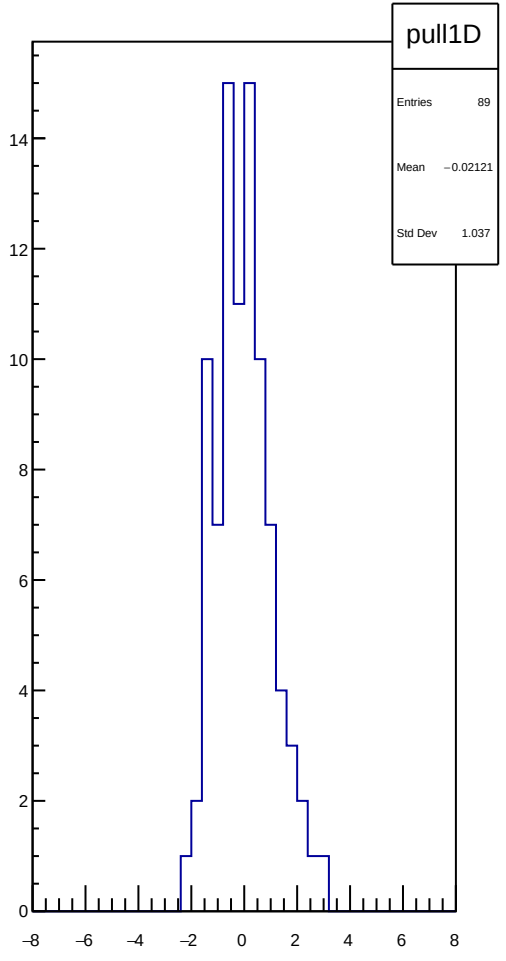

diff_bpm0i01X_rms vs run
χ² / ndf 9637 / 88
p0 3145 ± 2.429
3600
3400
3200
3000
2800
2600

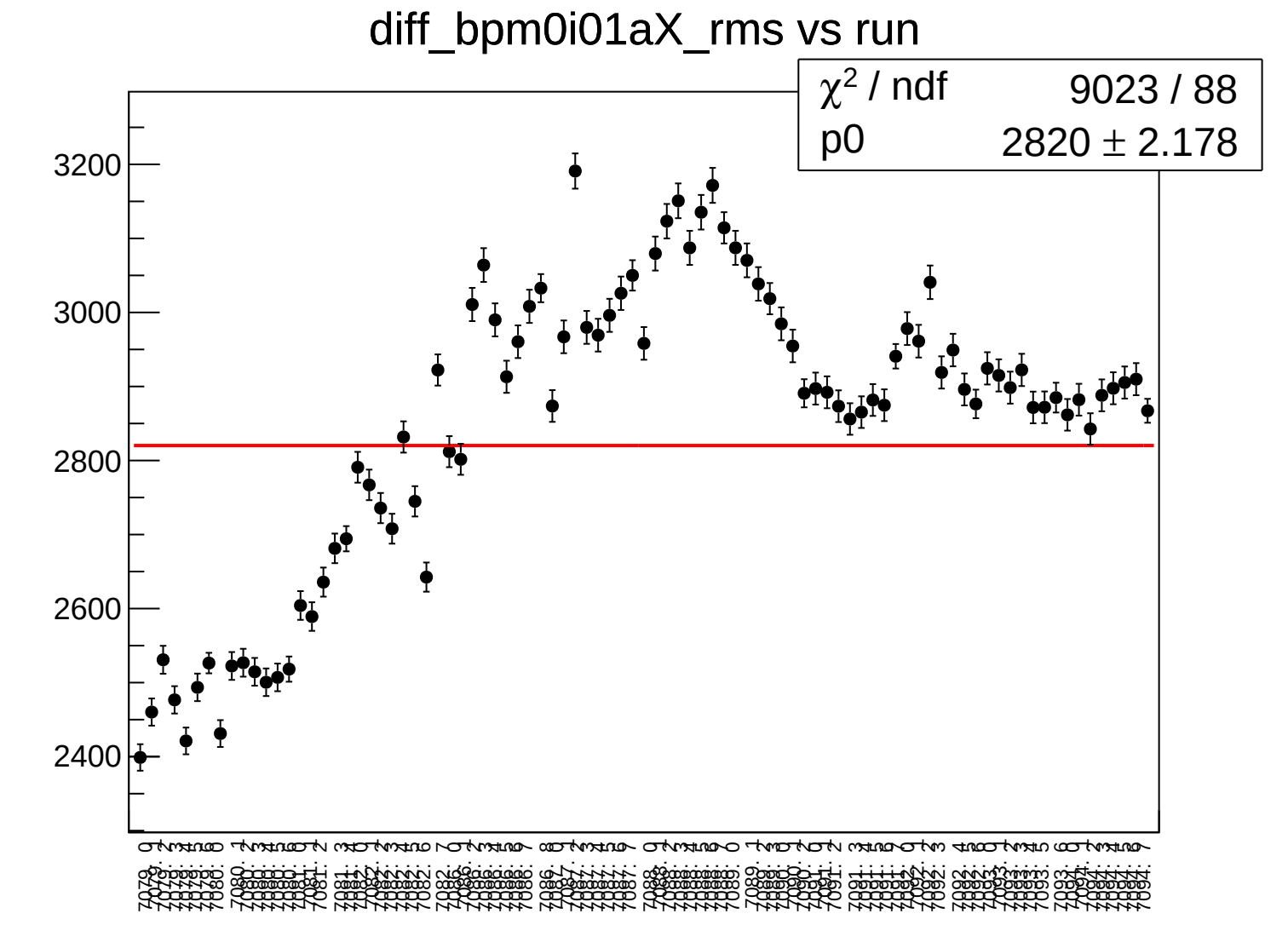

diff_bpm0i01Y_mean vs run
χ^2 / ndf 101.1 / 88
p0 5.152 ± 3.158
100
50
0
−50
−100
pull
Entries 89
Mean −18.38
Std Dev 0
3
2
1
0
−1
−2

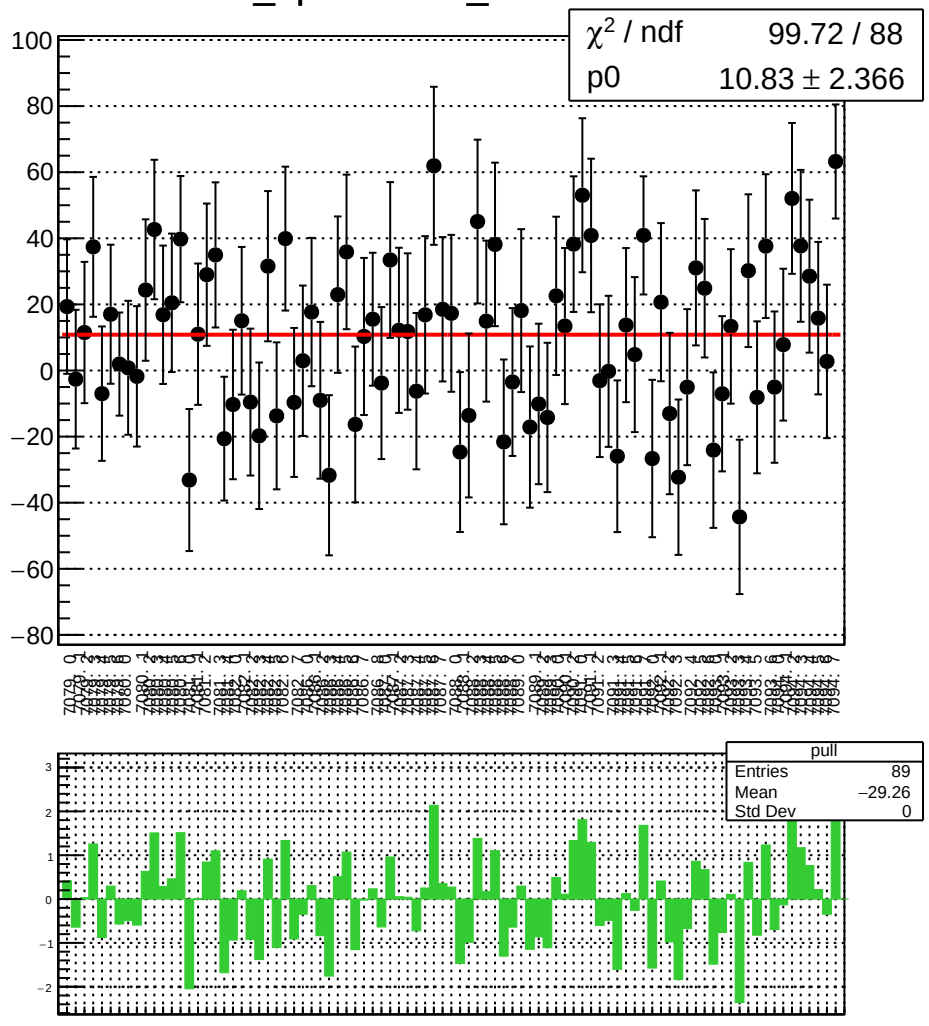

pull1D
Entries 89
Mean −0.02091
Std Dev 1.066
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

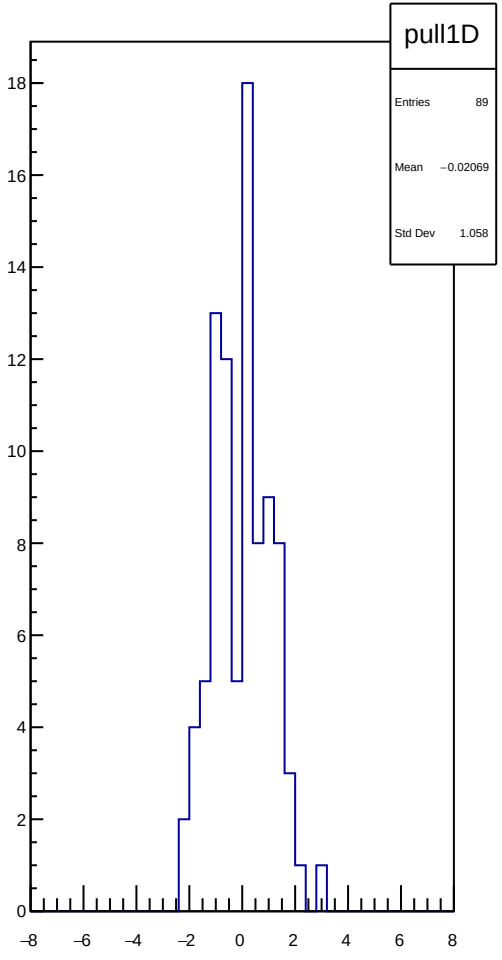

diff_bpm0i01Y_rms vs run
χ² / ndf 5785 / 88
p0 2895 ± 2.233
3200
3100
3000
2900
2800
2700
2600
2500

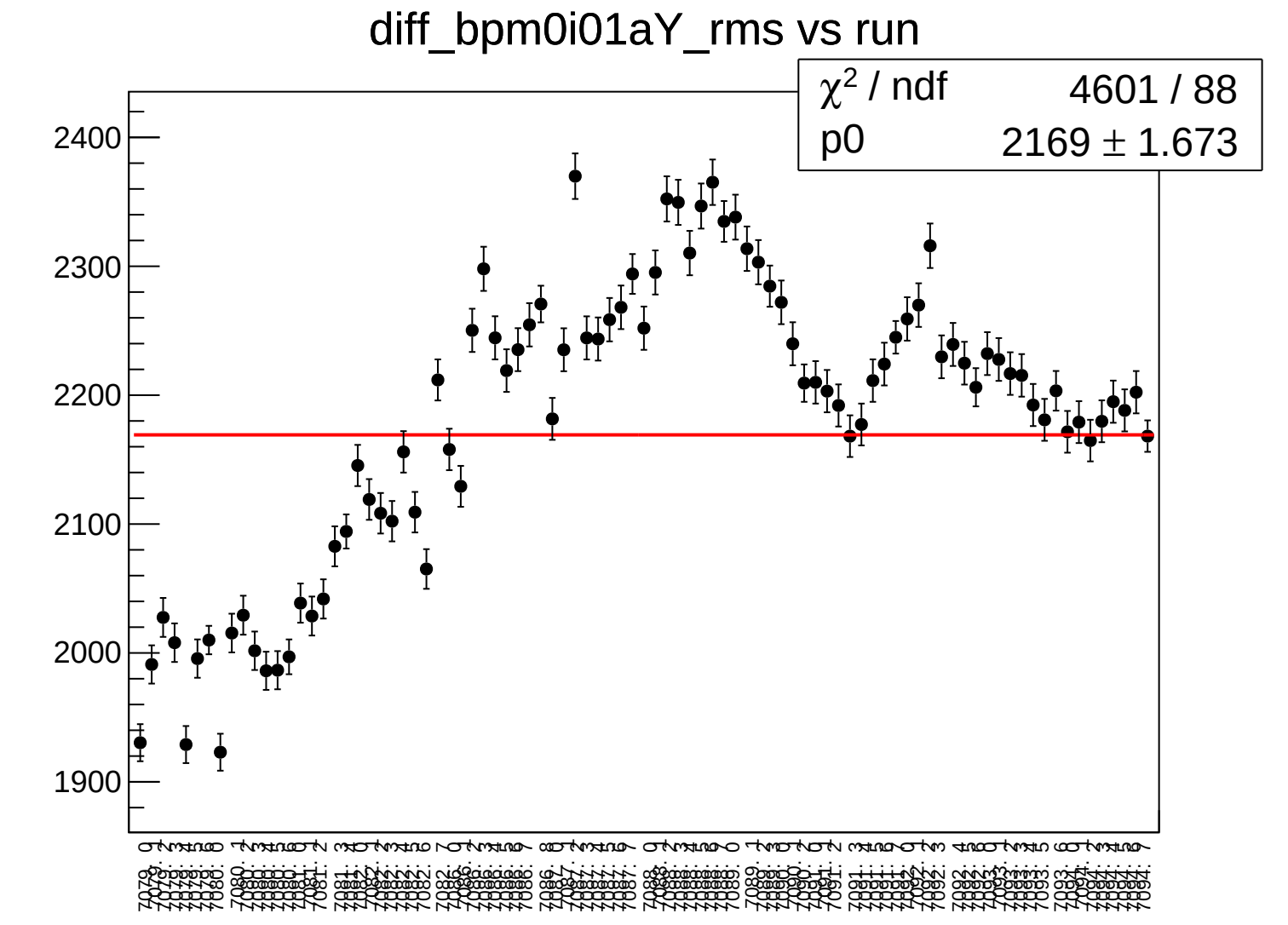

diff_bpm0i01aX_mean vs run
χ² / ndf 95.67 / 88
p0 1.503 ± 3.08
100
50
0
−50
−100
pull
Entries 89
Mean 76.25
Std Dev 0
3
2
1
0
−1
−2

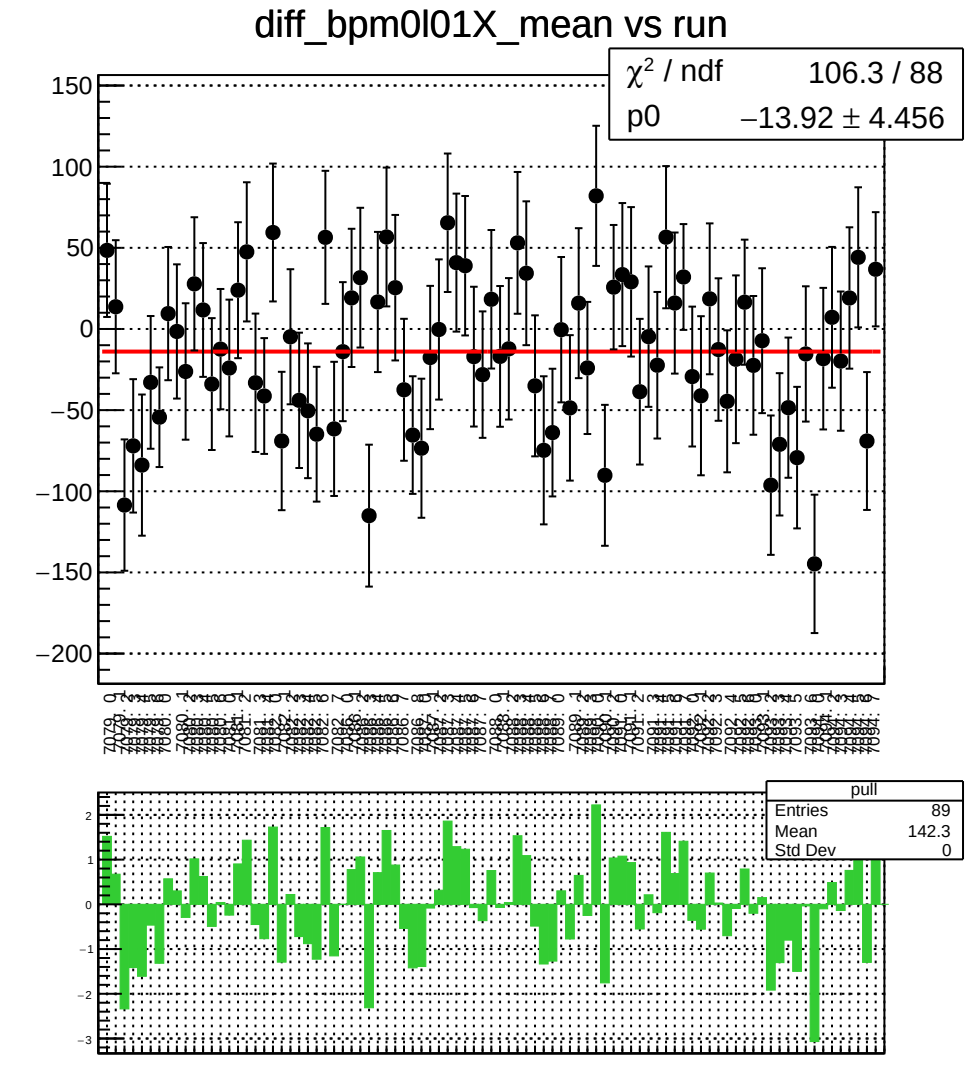

pull1D
Entries 89
Mean −0.02121
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

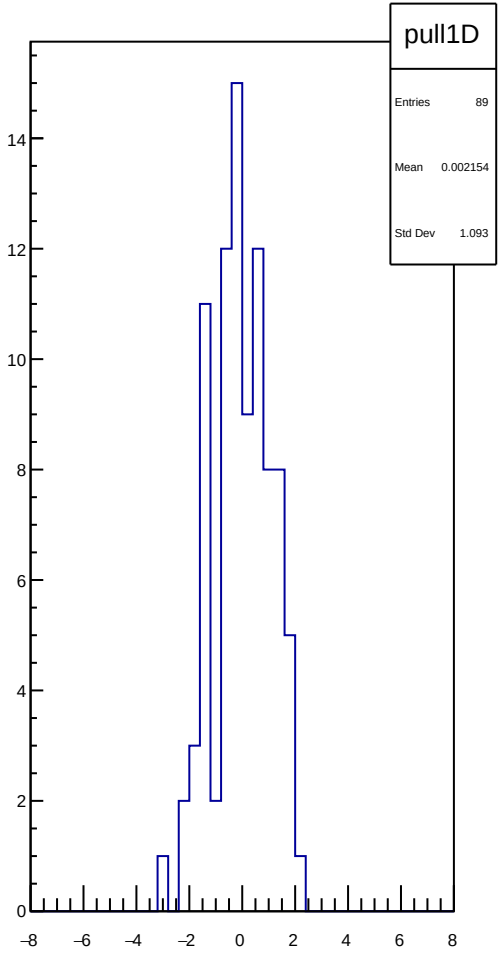

diff_bpm0i01aX_rms vs run
χ² / ndf 9023 / 88
p0 2820 ± 2.178
3200
3000
2800
2600
2400

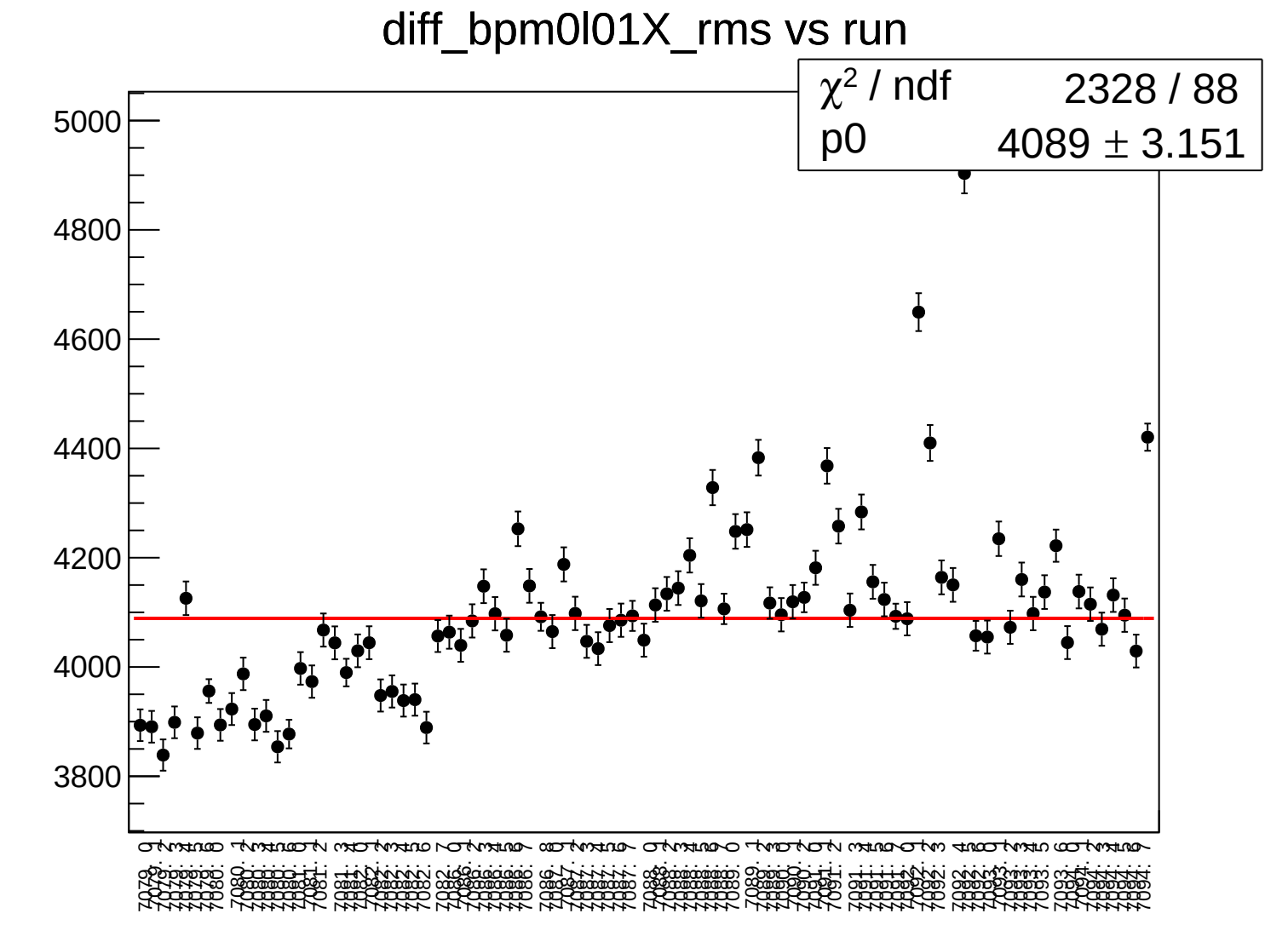

diff_bpm0i01aY_mean vs run
χ² / ndf 99.72 / 88
p0 10.83 ± 2.366
pull
Entries 89
Mean −29.26
Std Dev 0

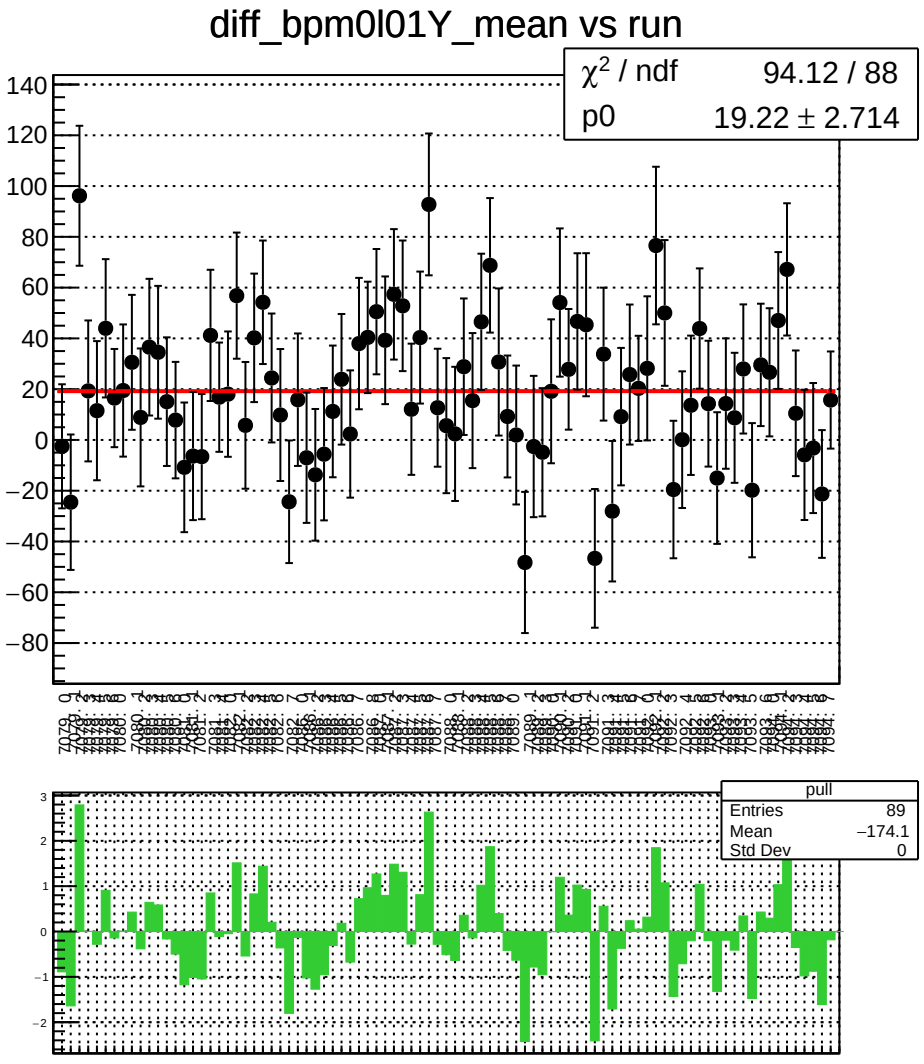

pull1D
Entries 89
Mean −0.02069
Std Dev 1.058

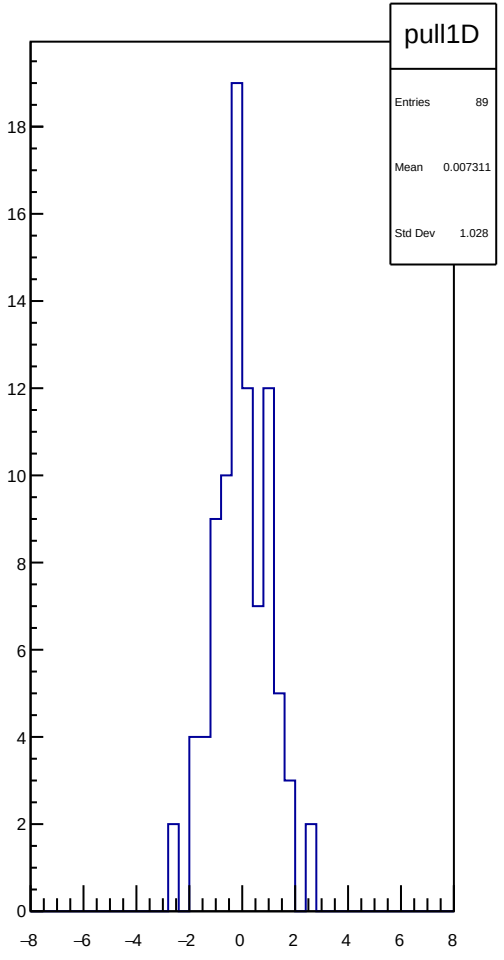

diff_bpm0i01aY_rms vs run
χ² / ndf 4601 / 88
p0 2169 ± 1.673
2400
2300
2200
2100
2000
1900

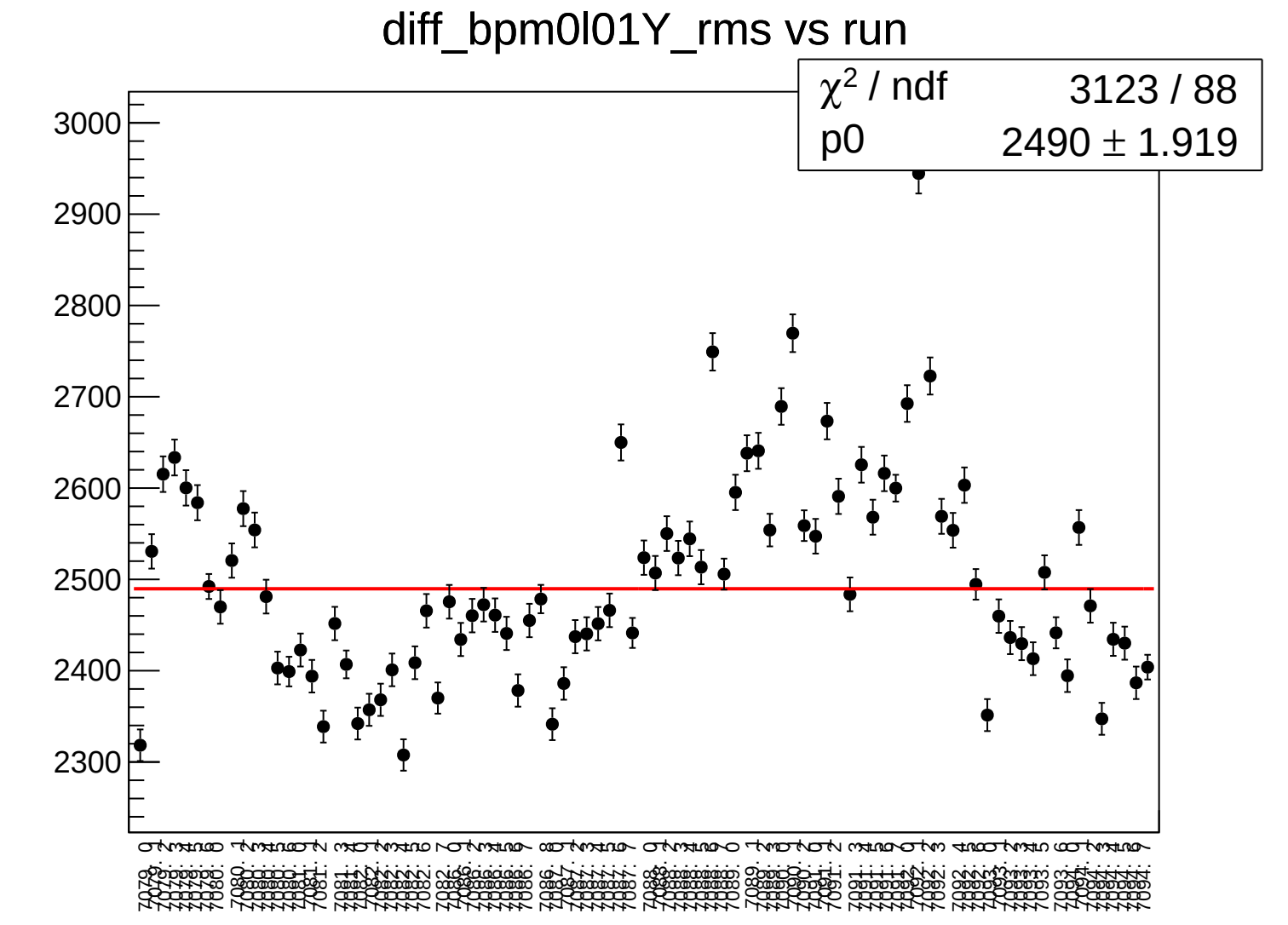

diff_bpm0l01X_mean vs run
χ² / ndf 106.3 / 88
p0 −13.92 ± 4.456
pull
Entries 89
Mean 142.3
Std Dev 0

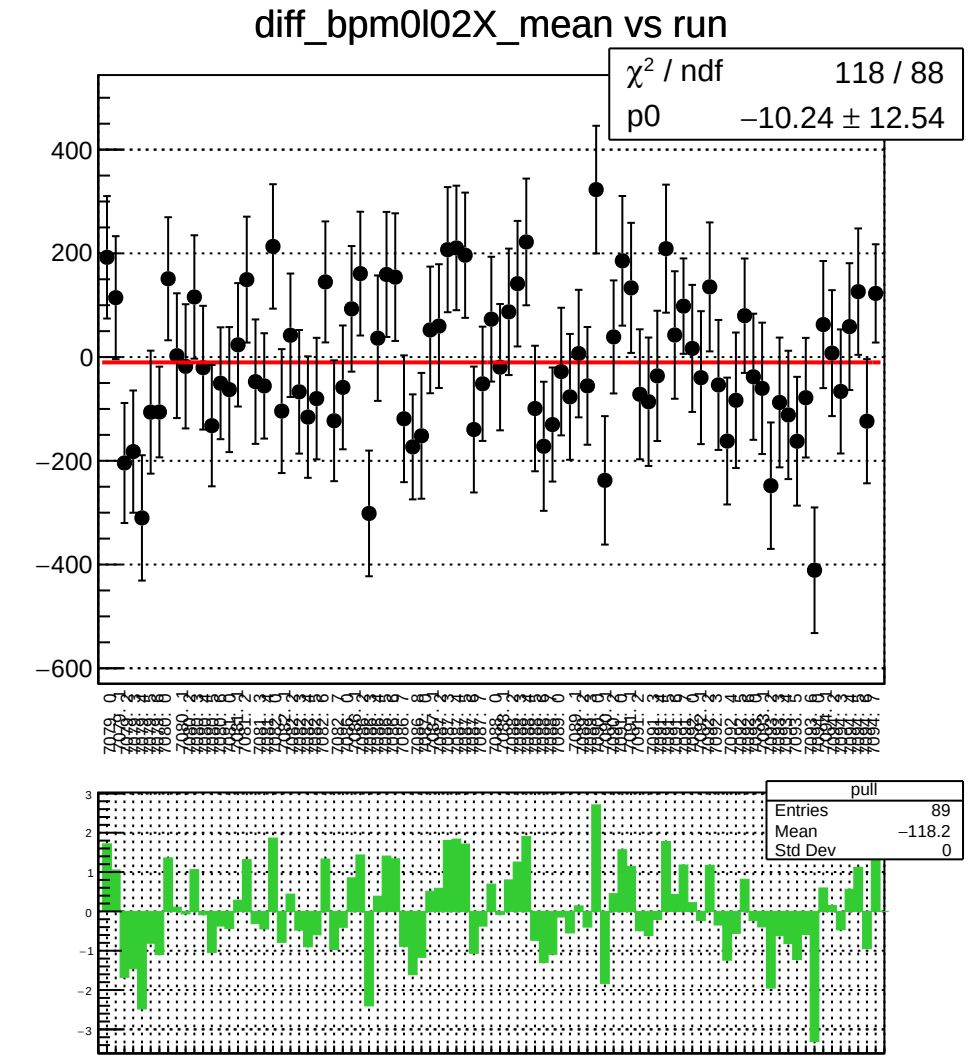

pull1D
Entries 89
Mean 0.002154
Std Dev 1.093

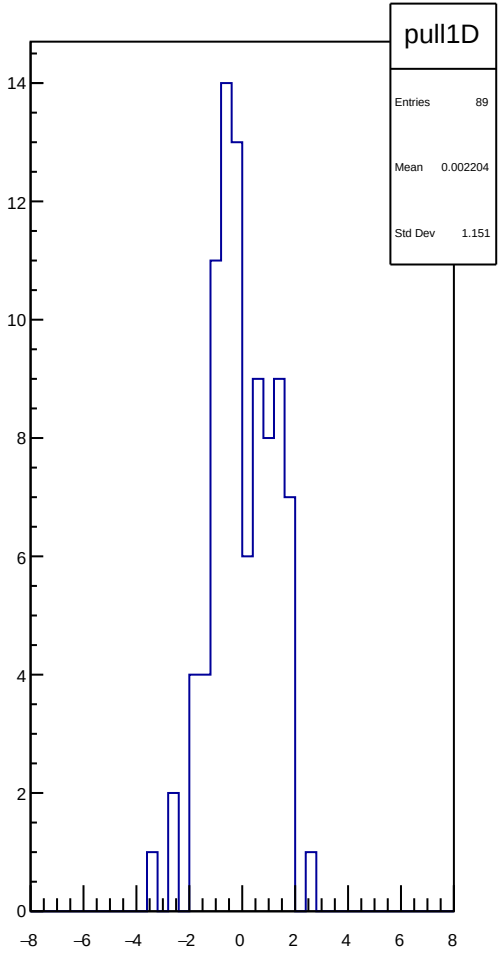

diff_bpm0l01X_rms vs run
χ² / ndf 2328 / 88
p0 4089 ± 3.151
5000
4800
4600
4400
4200
4000
3800

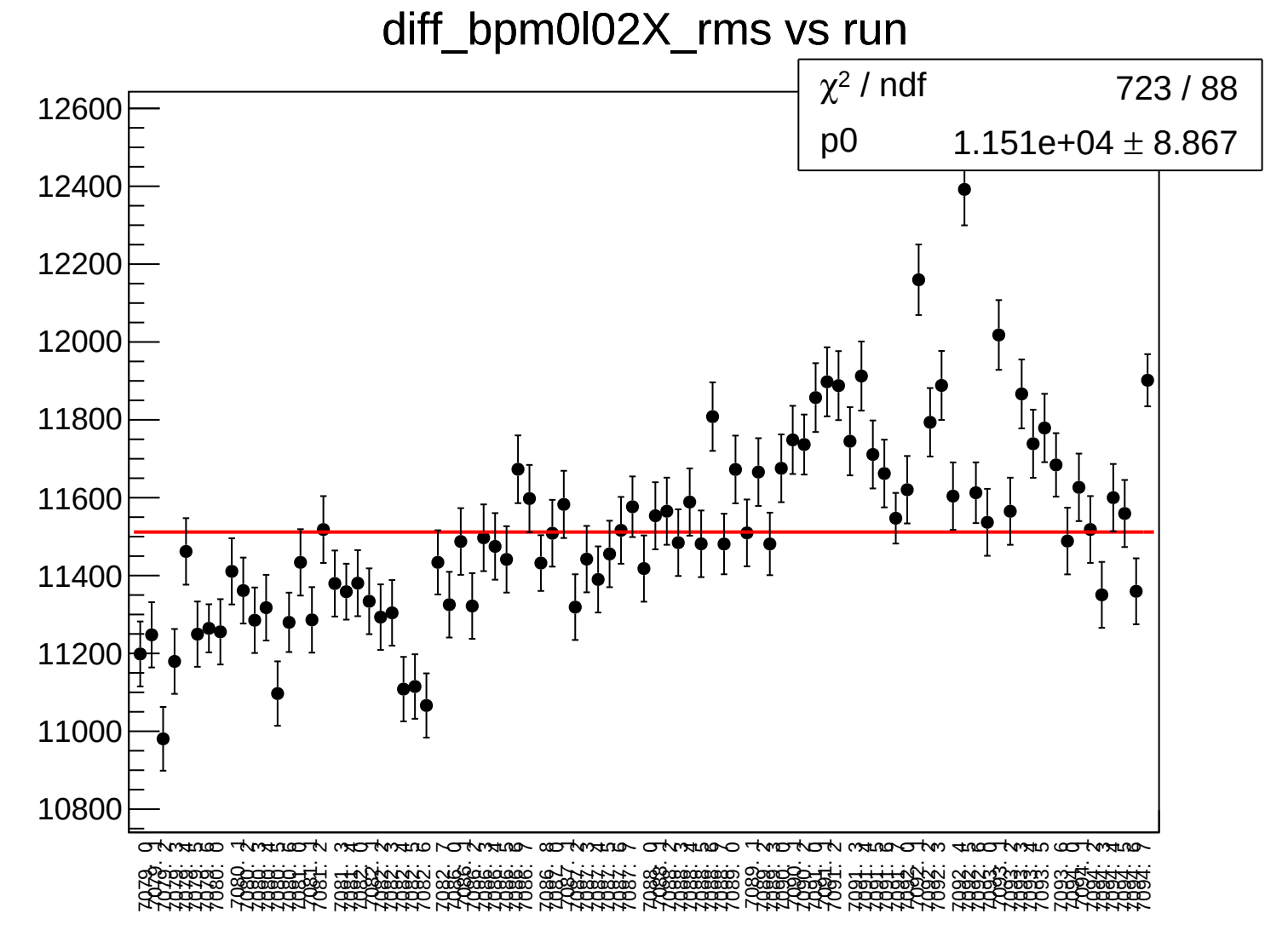

diff_bpm0l01Y_mean vs run
χ² / ndf 94.12 / 88
p0 19.22 ± 2.714
pull
Entries 89
Mean −174.1
Std Dev 0

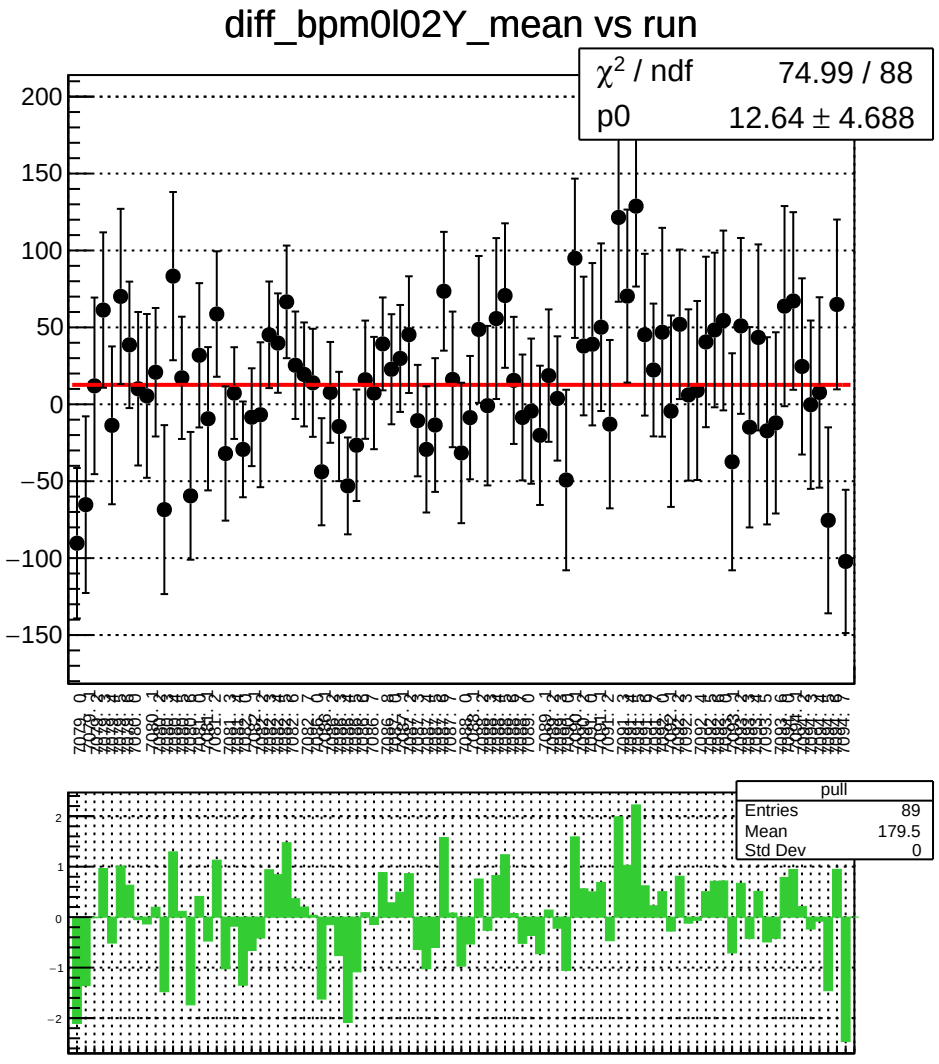

pull1D
Entries 89
Mean 0.007311
Std Dev 1.028

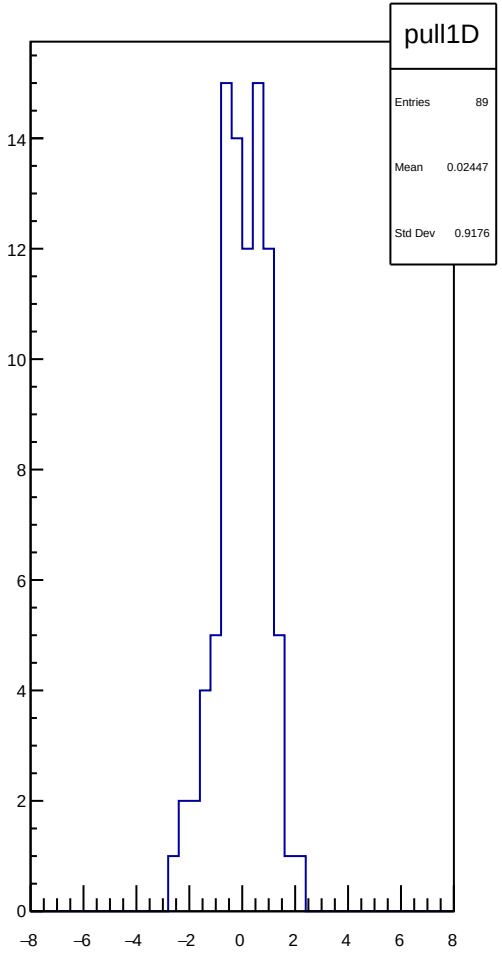

diff_bpm0l01Y_rms vs run
χ² / ndf 3123 / 88
p0 2490 ± 1.919
3000
2900
2800
2700
2600
2500
2400
2300

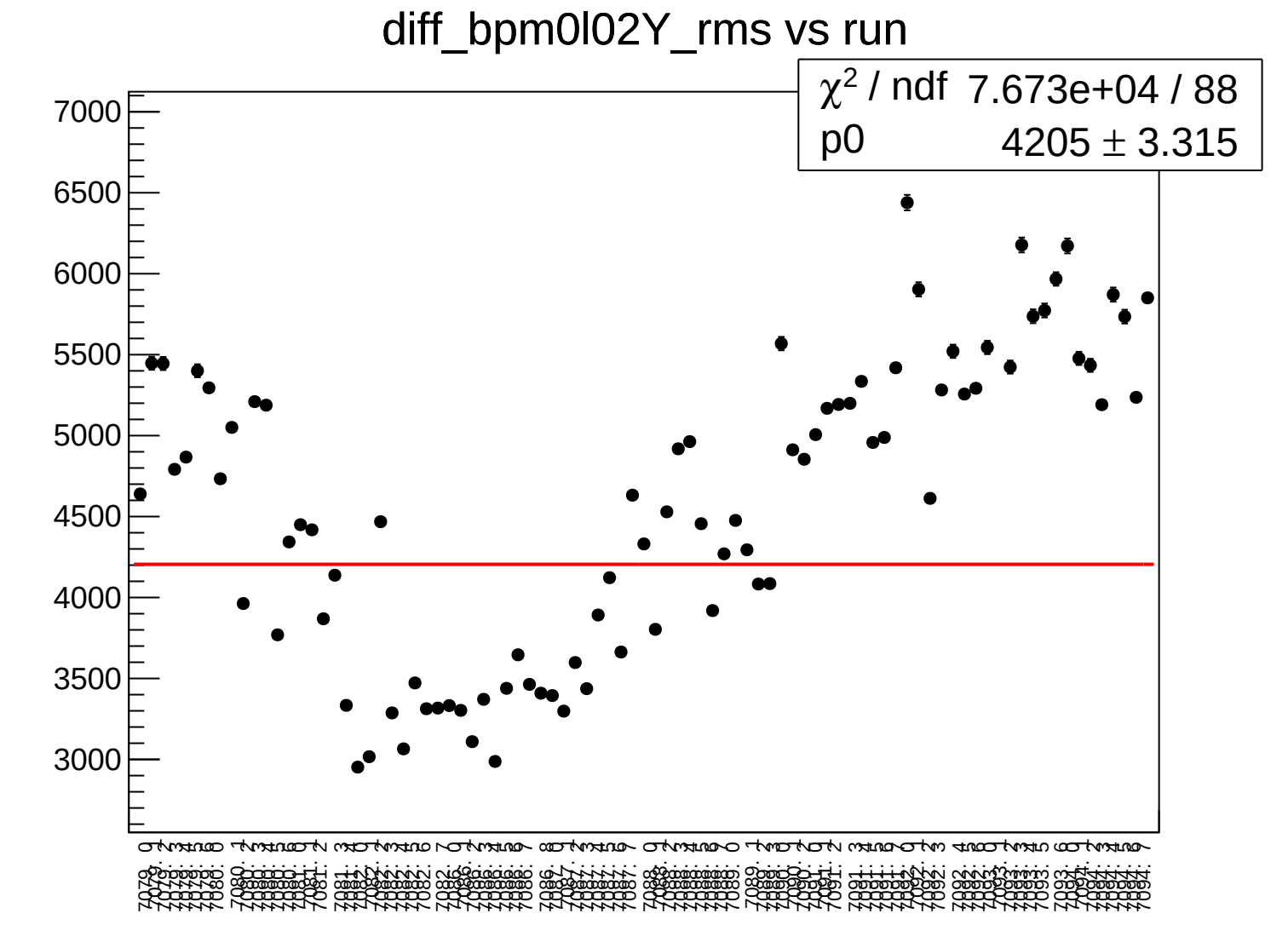

diff_bpm0l02X_mean vs run
χ² / ndf 118 / 88
p0 −10.24 ± 12.54
pull
Entries 89
Mean −118.2
Std Dev 0

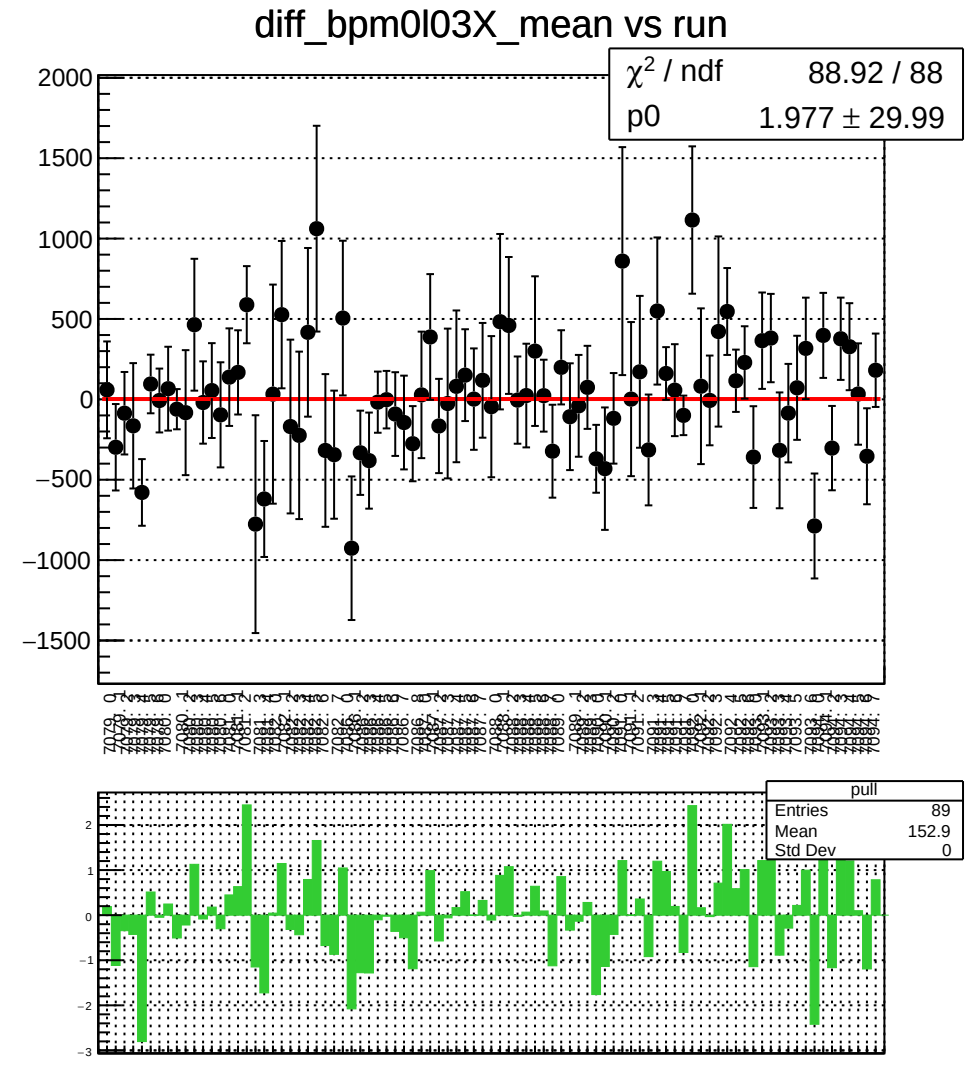

pull1D
Entries 89
Mean 0.002204
Std Dev 1.151

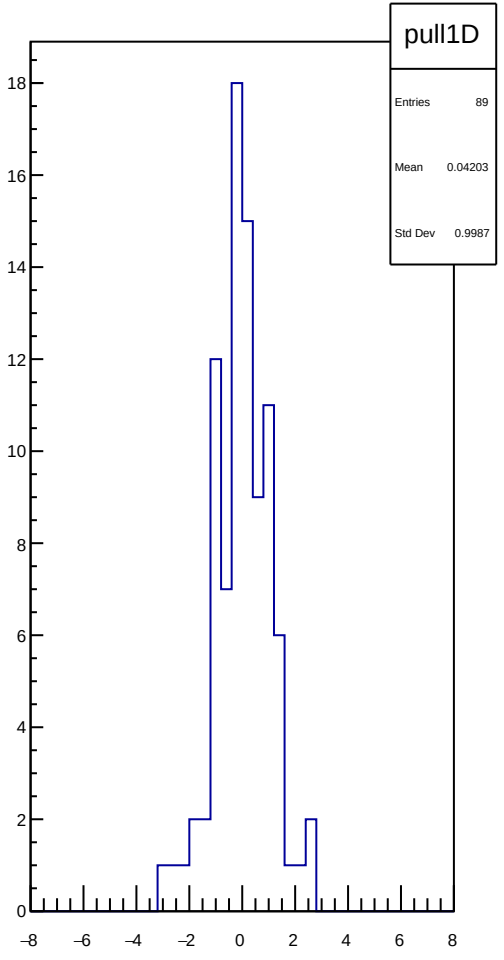

diff_bpm0l02X_rms vs run
χ² / ndf 723 / 88
p0 1.151e+04 ± 8.867
12600
12400
12200
12000
11800
11600
11400
11200
11000
10800

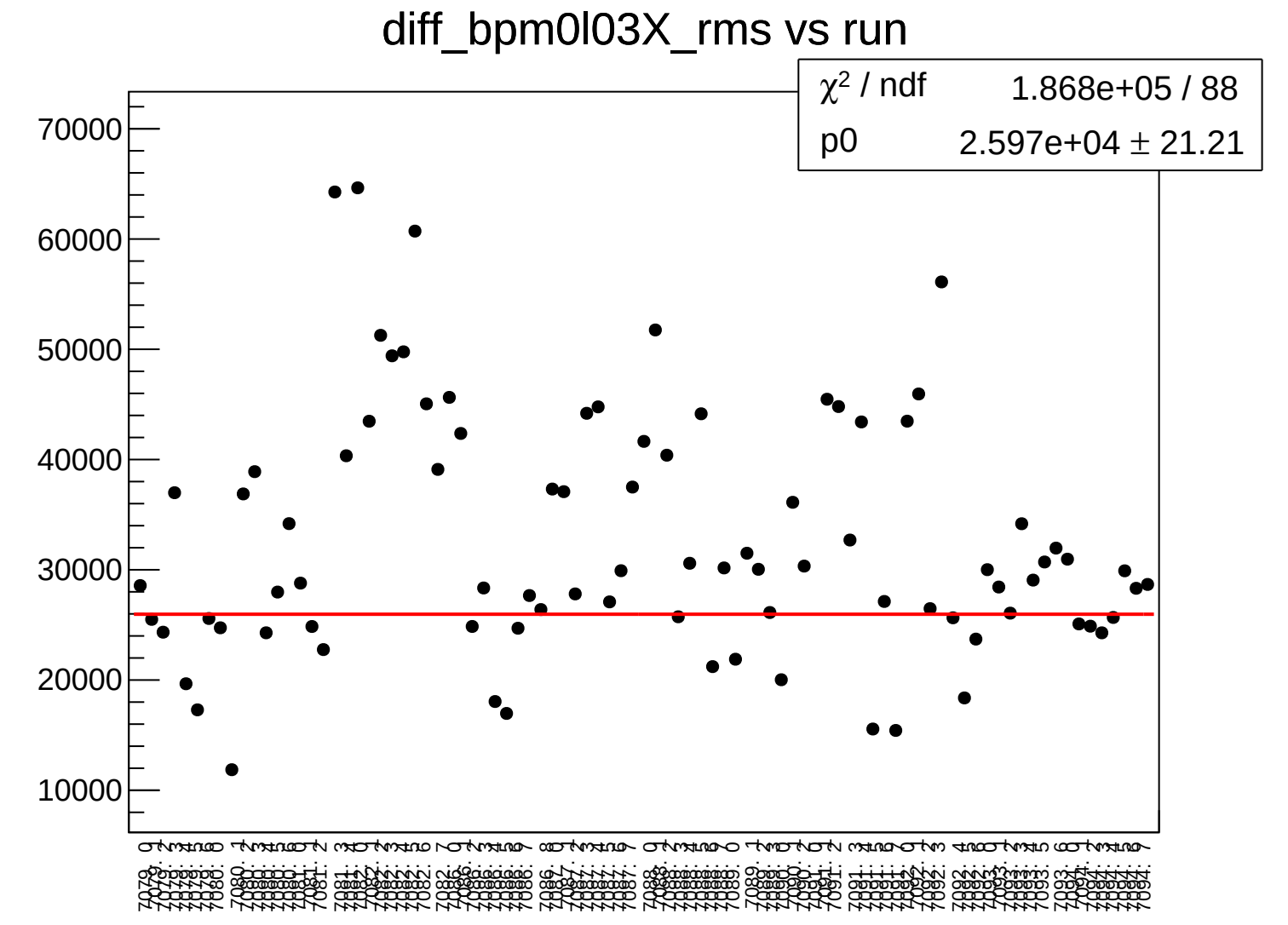

diff_bpm0l02Y_mean vs run
χ² / ndf 74.99 / 88
p0 12.64 ± 4.688
pull
Entries 89
Mean 179.5
Std Dev 0

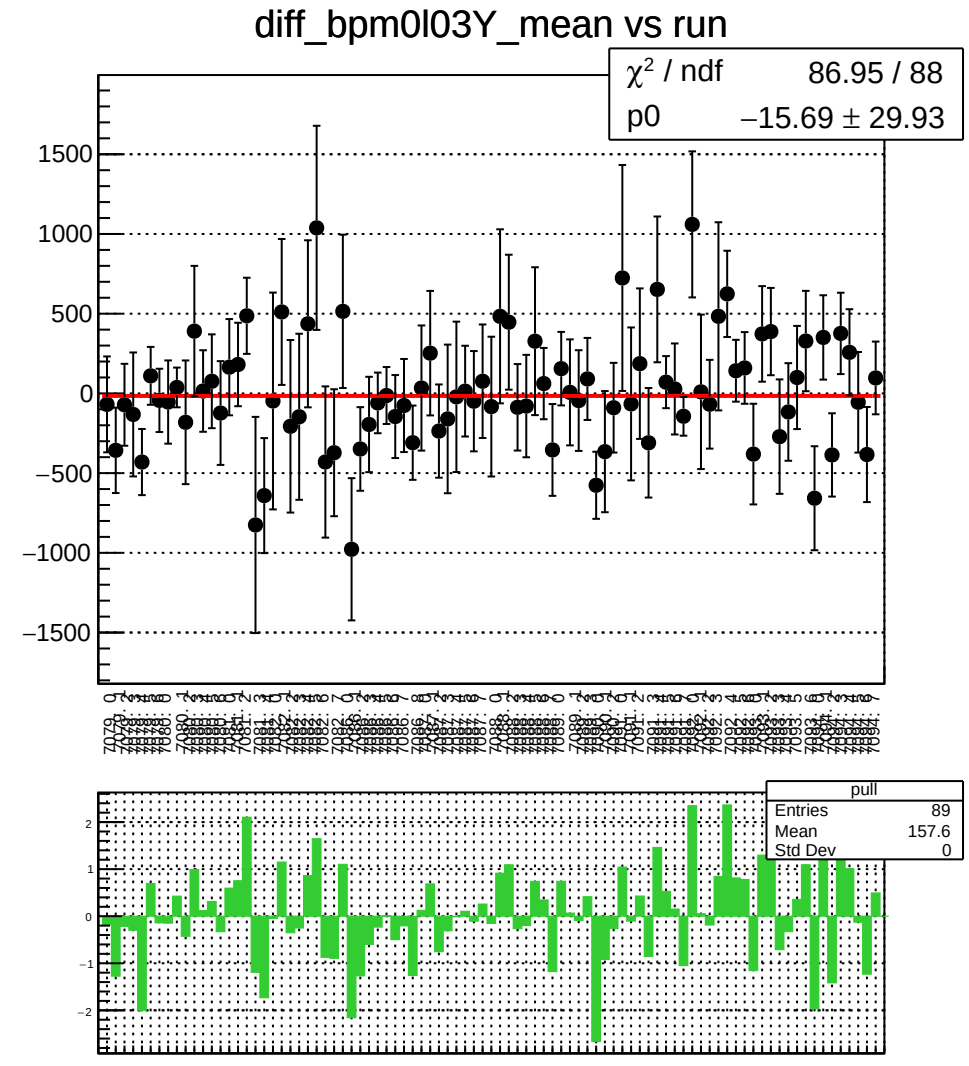

pull1D
Entries 89
Mean 0.02447
Std Dev 0.9176

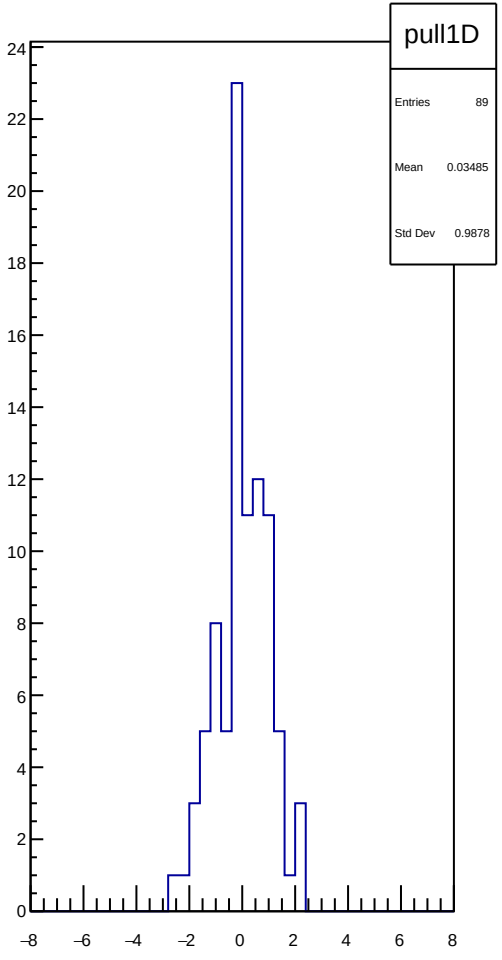

diff_bpm0l02Y_rms vs run
χ² / ndf 7.673e+04 / 88
p0 4205 ± 3.315
7000
6500
6000
5500
5000
4500
4000
3500
3000

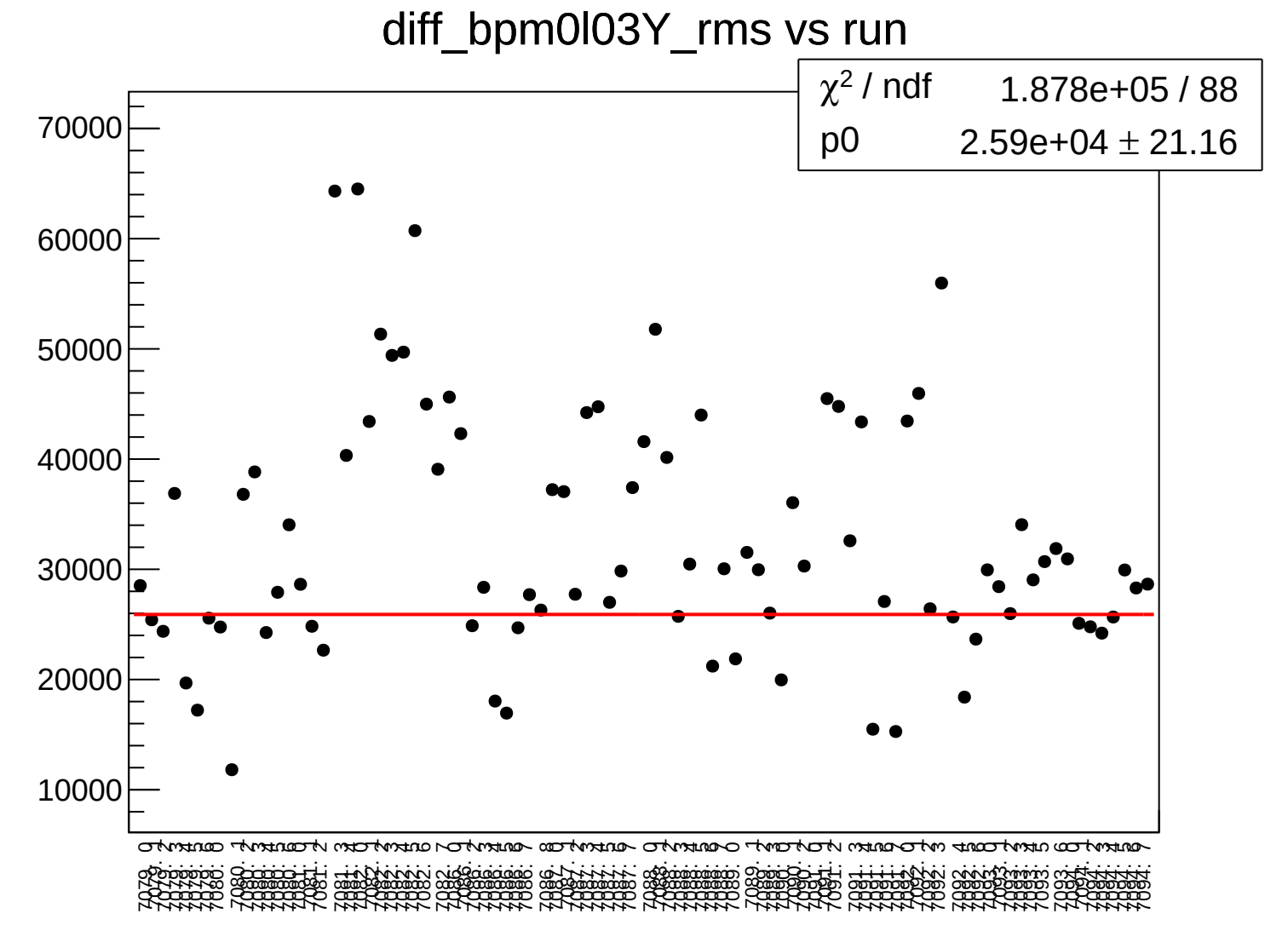

diff_bpm0l03X_mean vs run
χ^2 / ndf 88.92 / 88
p0 1.977 ± 29.99
pull
Entries 89
Mean 152.9
Std Dev 0

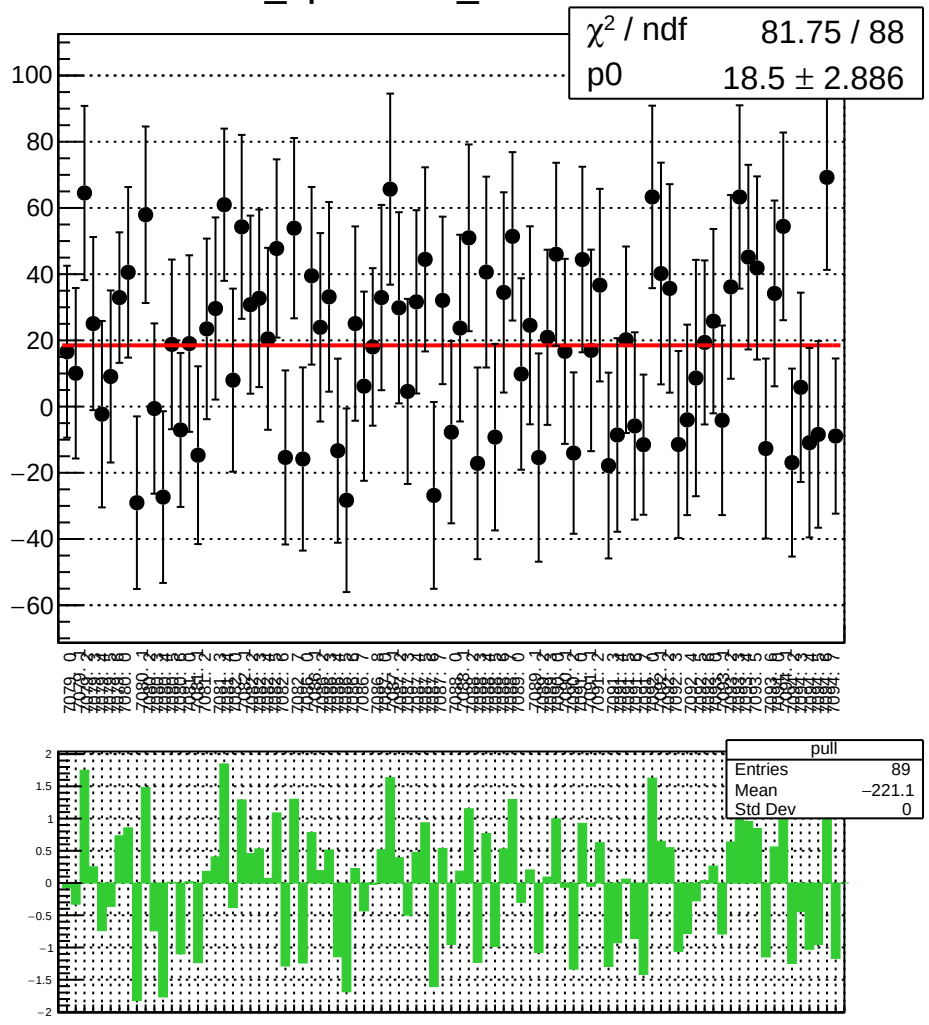

pull1D
Entries 89
Mean 0.04203
Std Dev 0.9987

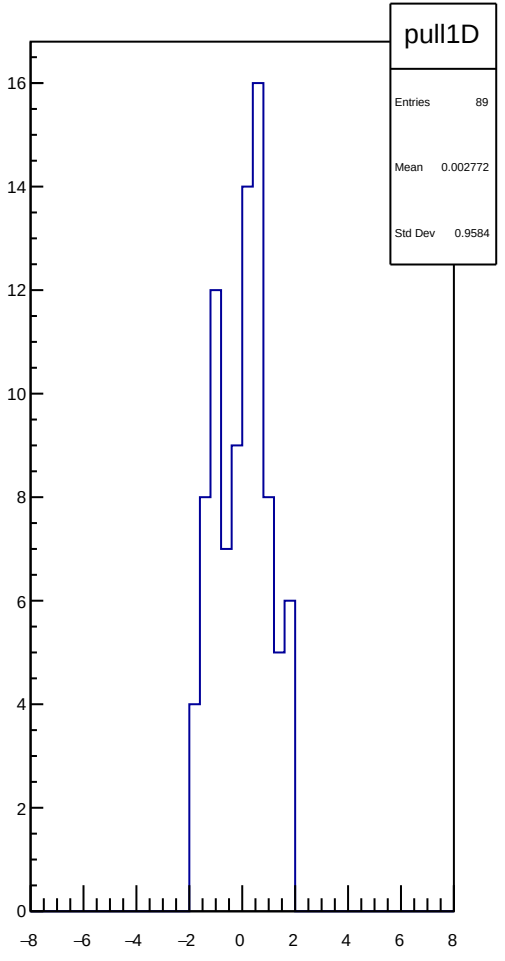

diff_bpm0l03X_rms vs run
χ² / ndf 1.868e+05 / 88
p0 2.597e+04 ± 21.21
70000
60000
50000
40000
30000
20000
10000

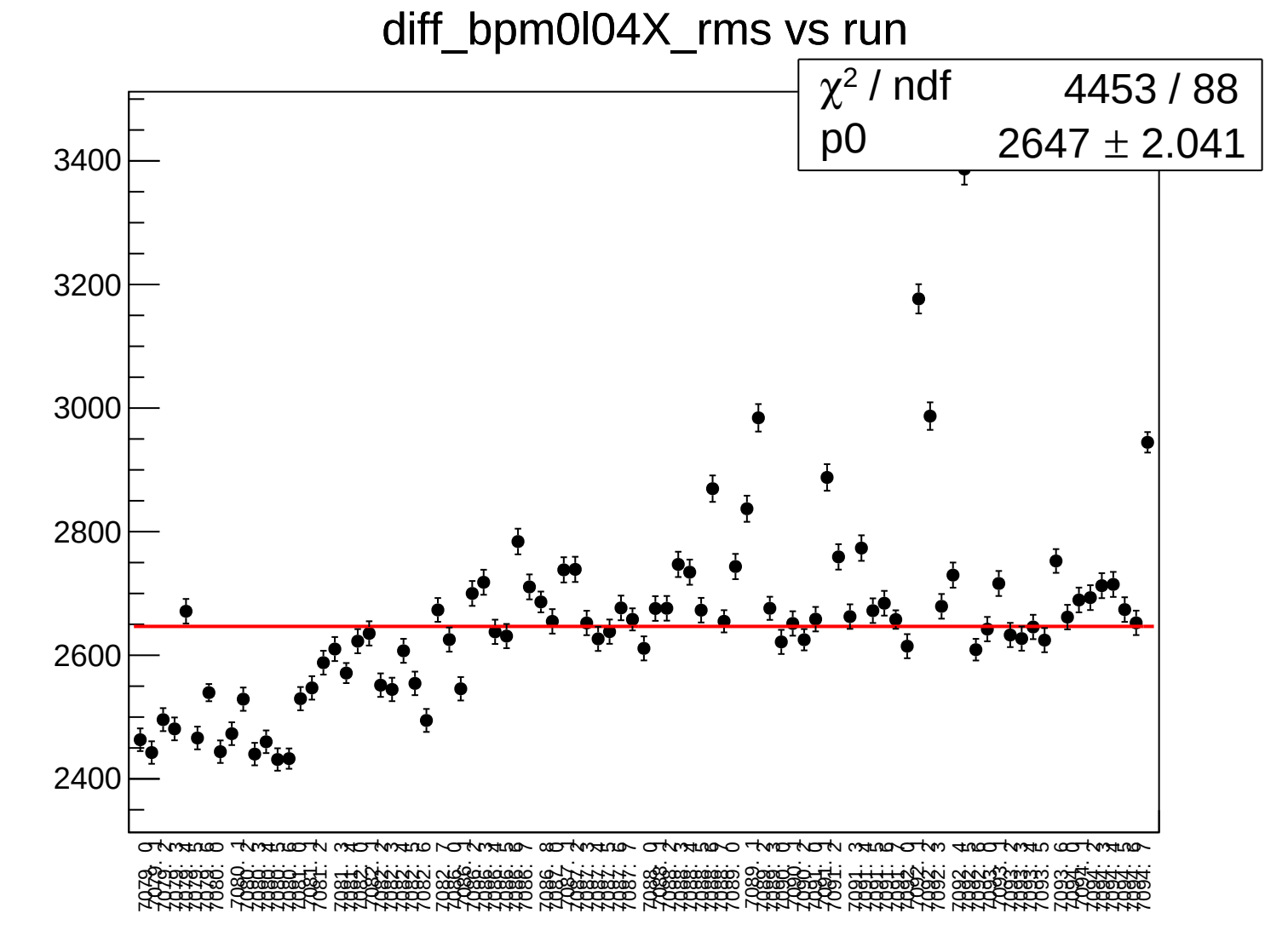

diff_bpm0l03Y_mean vs run
χ² / ndf 86.95 / 88
p0 −15.69 ± 29.93
pull
Entries 89
Mean 157.6
Std Dev 0

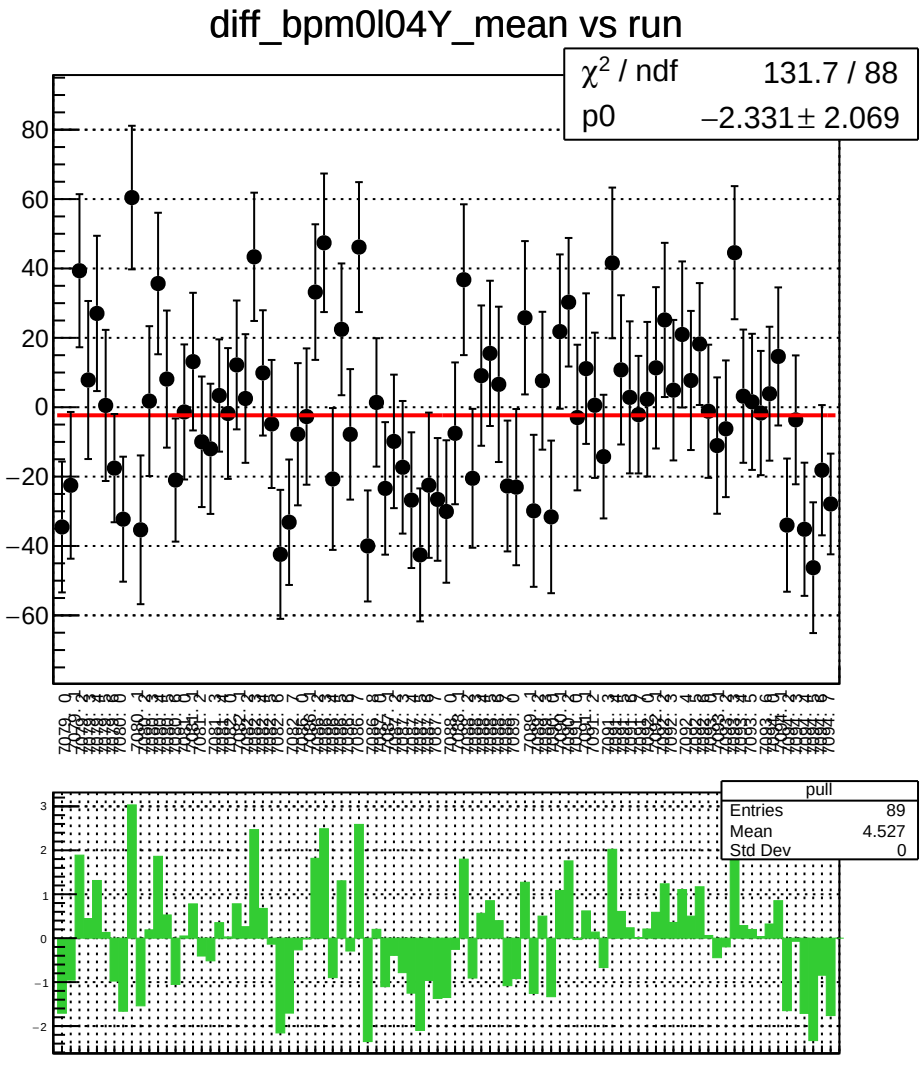

pull1D
Entries 89
Mean 0.03485
Std Dev 0.9878

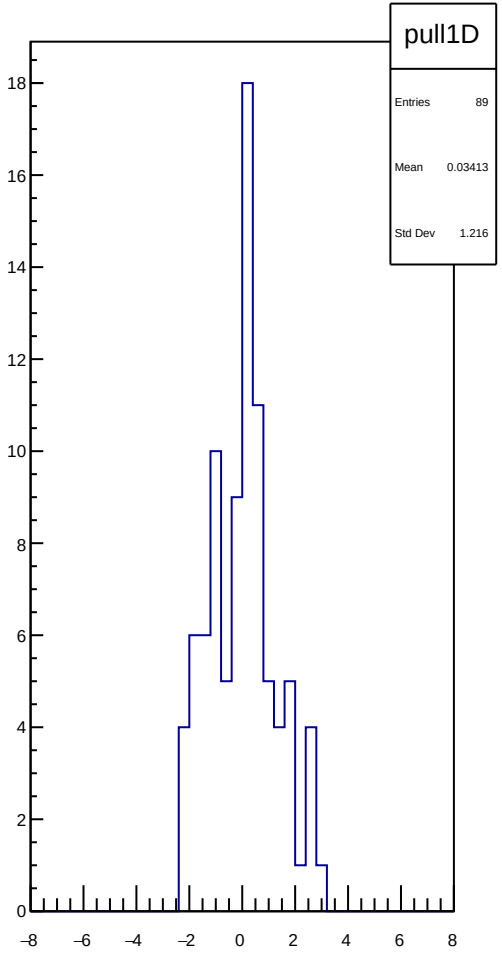

diff_bpm0l03Y_rms vs run
χ^2 / ndf 1.878e+05 / 88
p0 2.59e+04 ± 21.16
70000
60000
50000
40000
30000
20000
10000

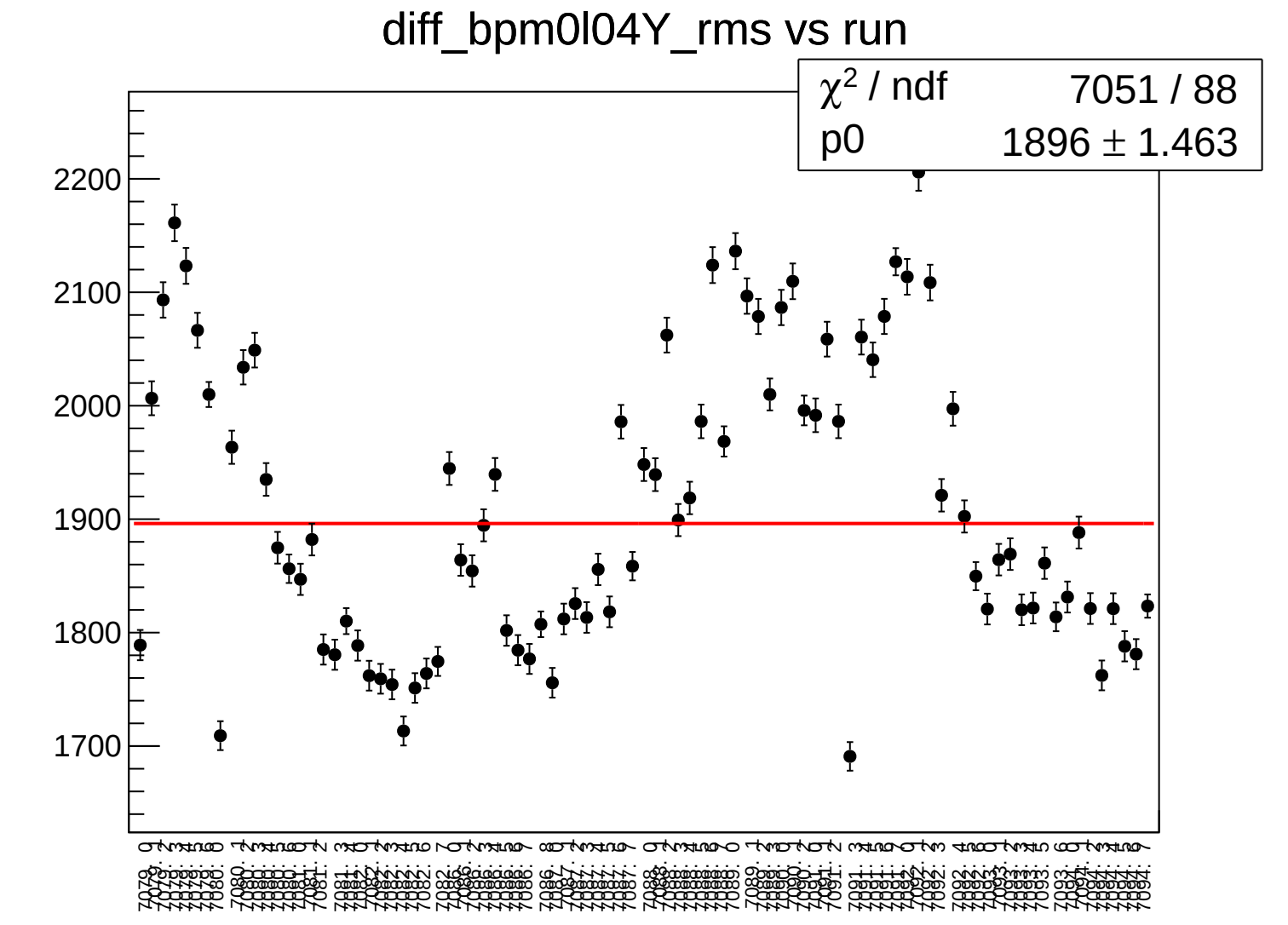

diff_bpm0l04X_mean vs run
χ² / ndf 81.75 / 88
p0 18.5 ± 2.886
pull
Entries 89
Mean −221.1
Std Dev 0

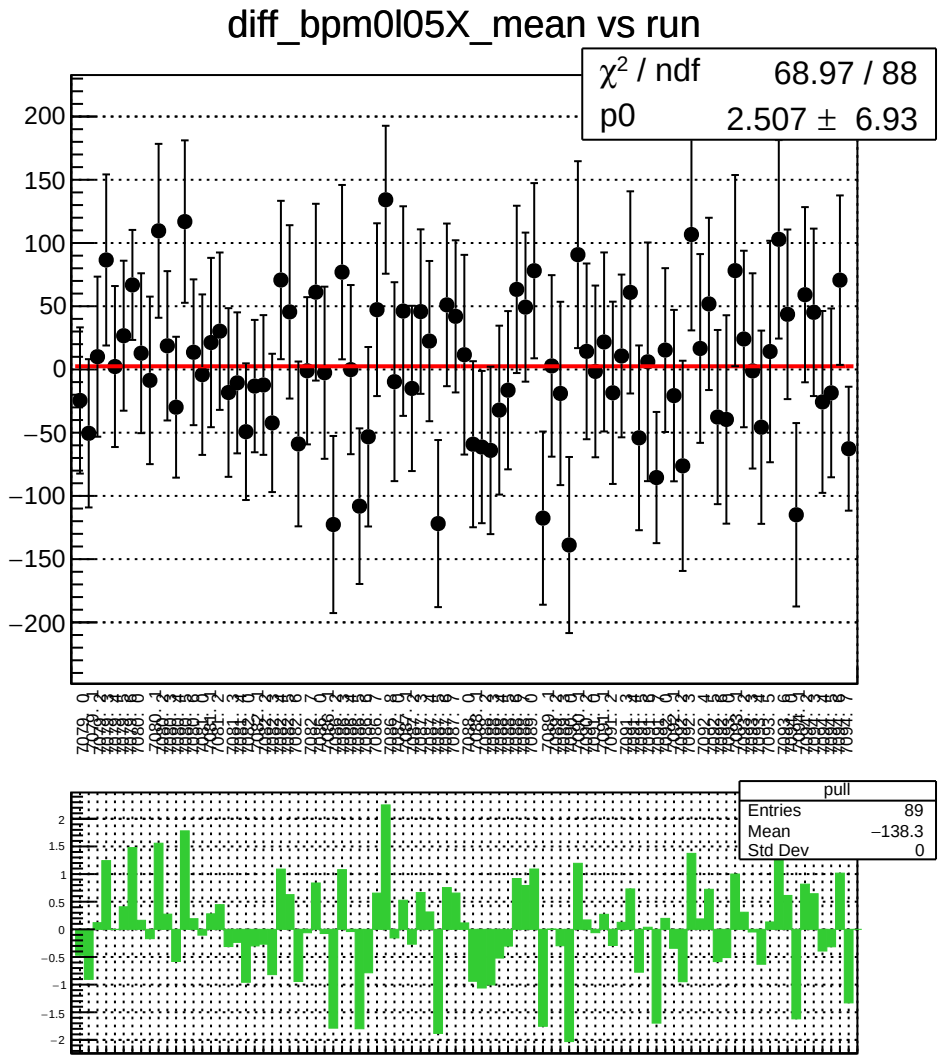

pull1D
Entries 89
Mean 0.002772
Std Dev 0.9584

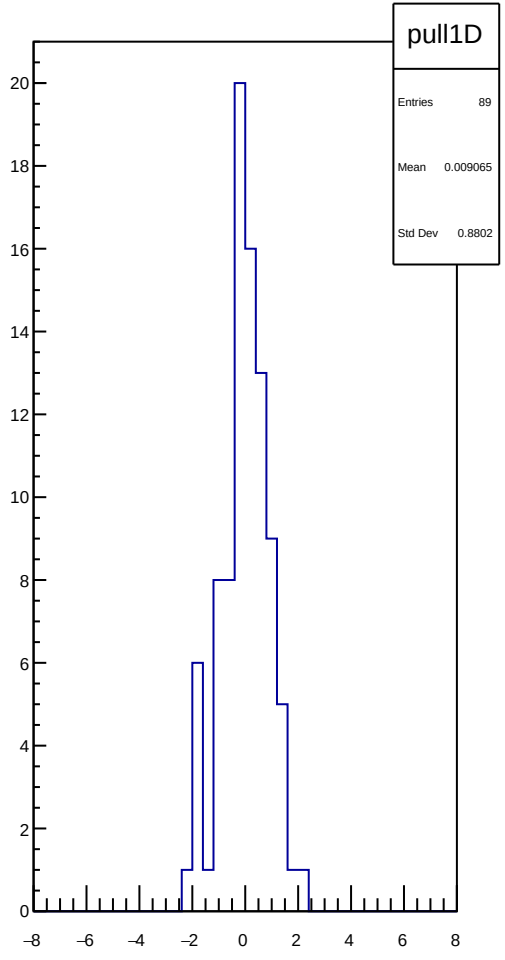

diff_bpm0l04X_rms vs run
χ² / ndf 4453 / 88
p0 2647 ± 2.041
3400
3200
3000
2800
2600
2400

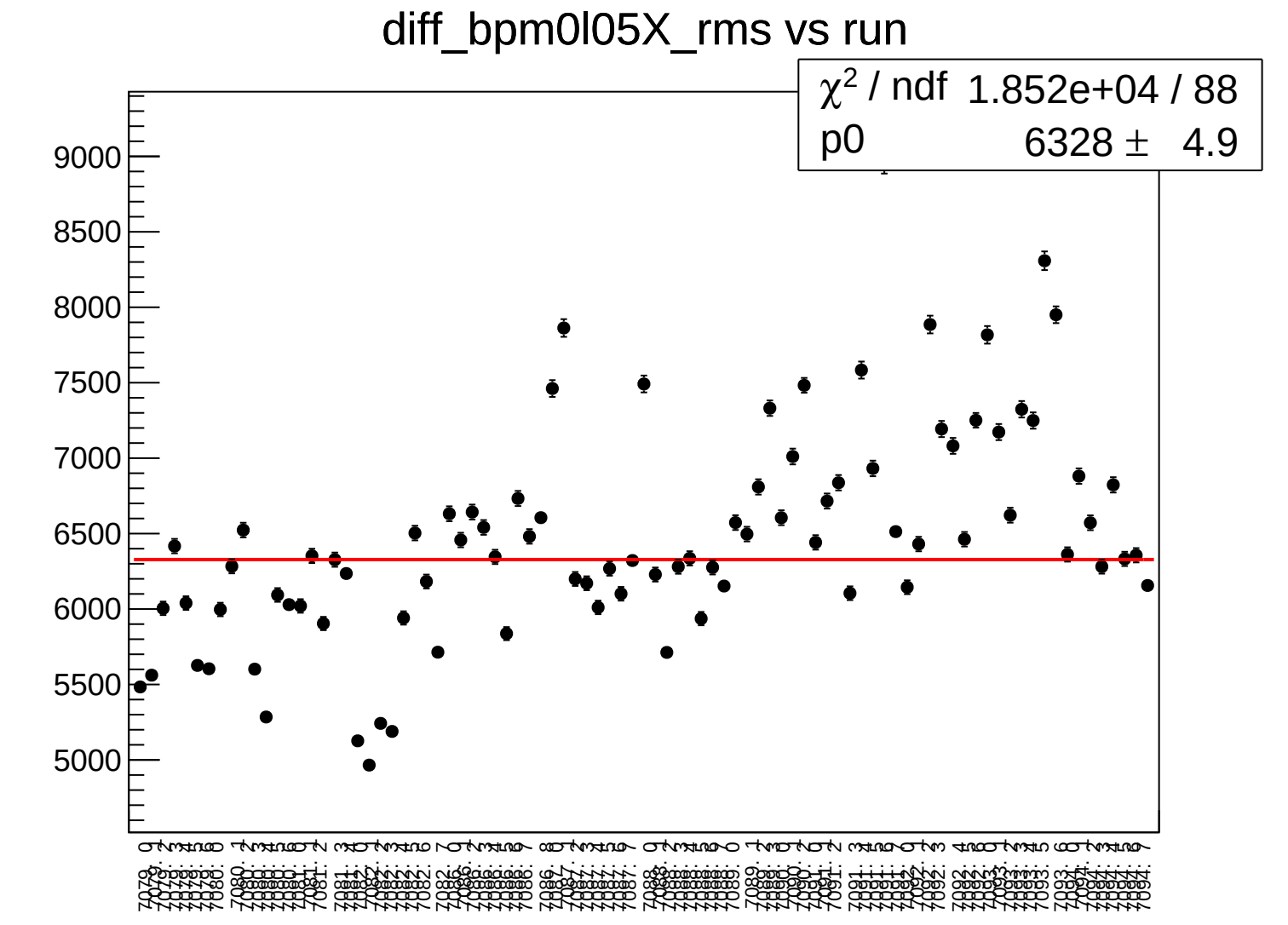

diff_bpm0l04Y_mean vs run
χ^2 / ndf 131.7 / 88
p0 −2.331 ± 2.069
pull
Entries 89
Mean 4.527
Std Dev 0

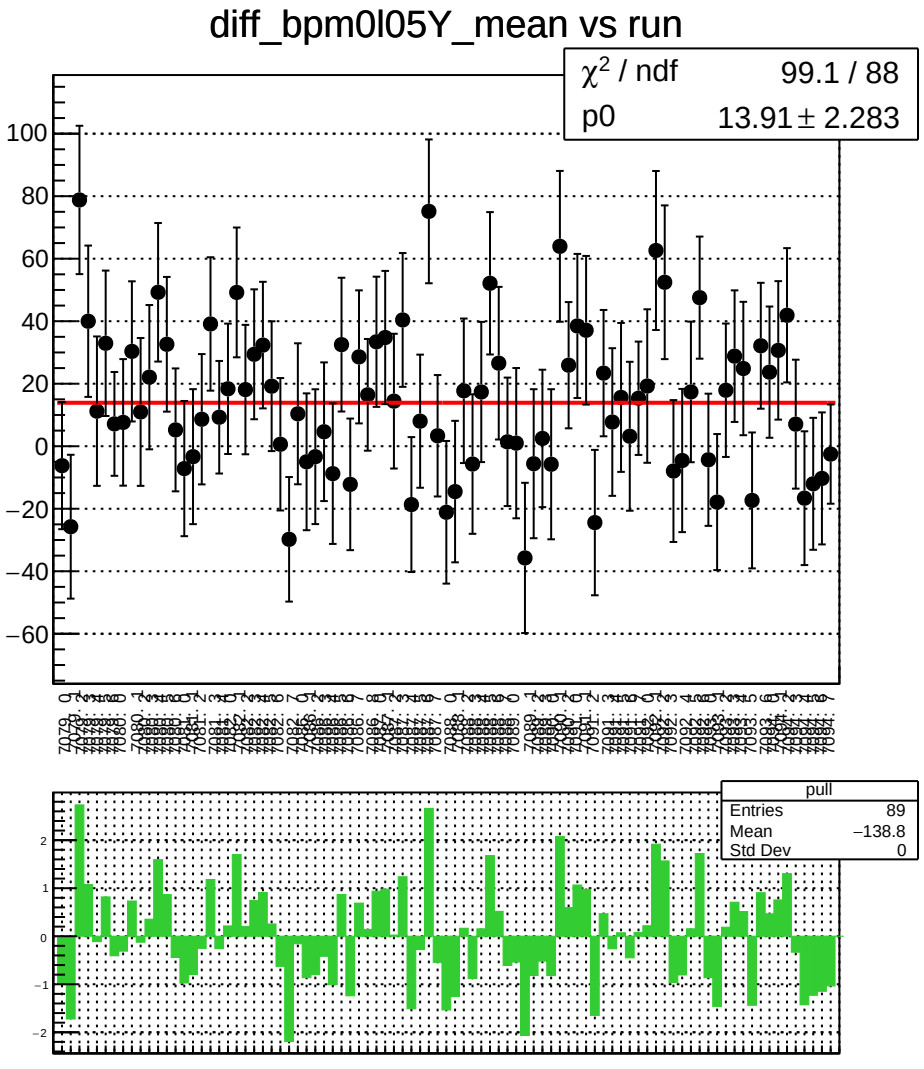

pull1D
Entries 89
Mean 0.03413
Std Dev 1.216

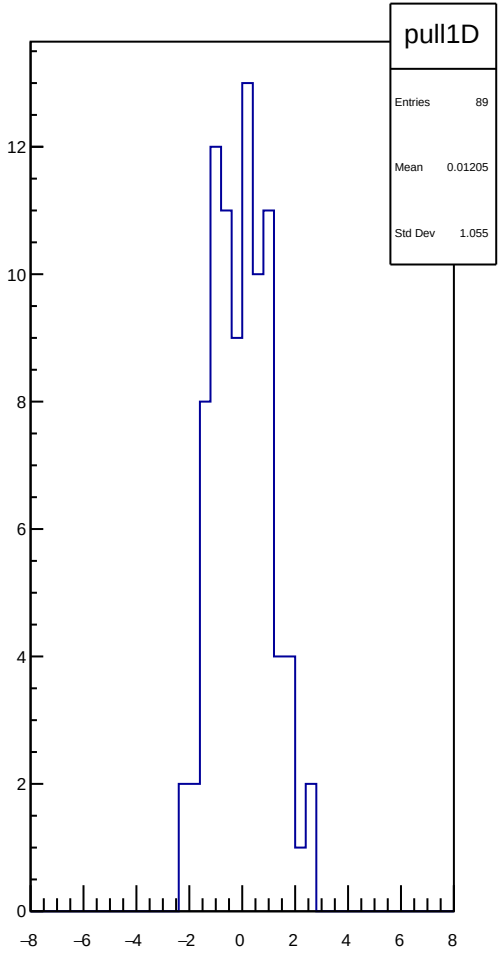

diff_bpm0l04Y_rms vs run
χ² / ndf 7051 / 88
p0 1896 ± 1.463
2200
2100
2000
1900
1800
1700

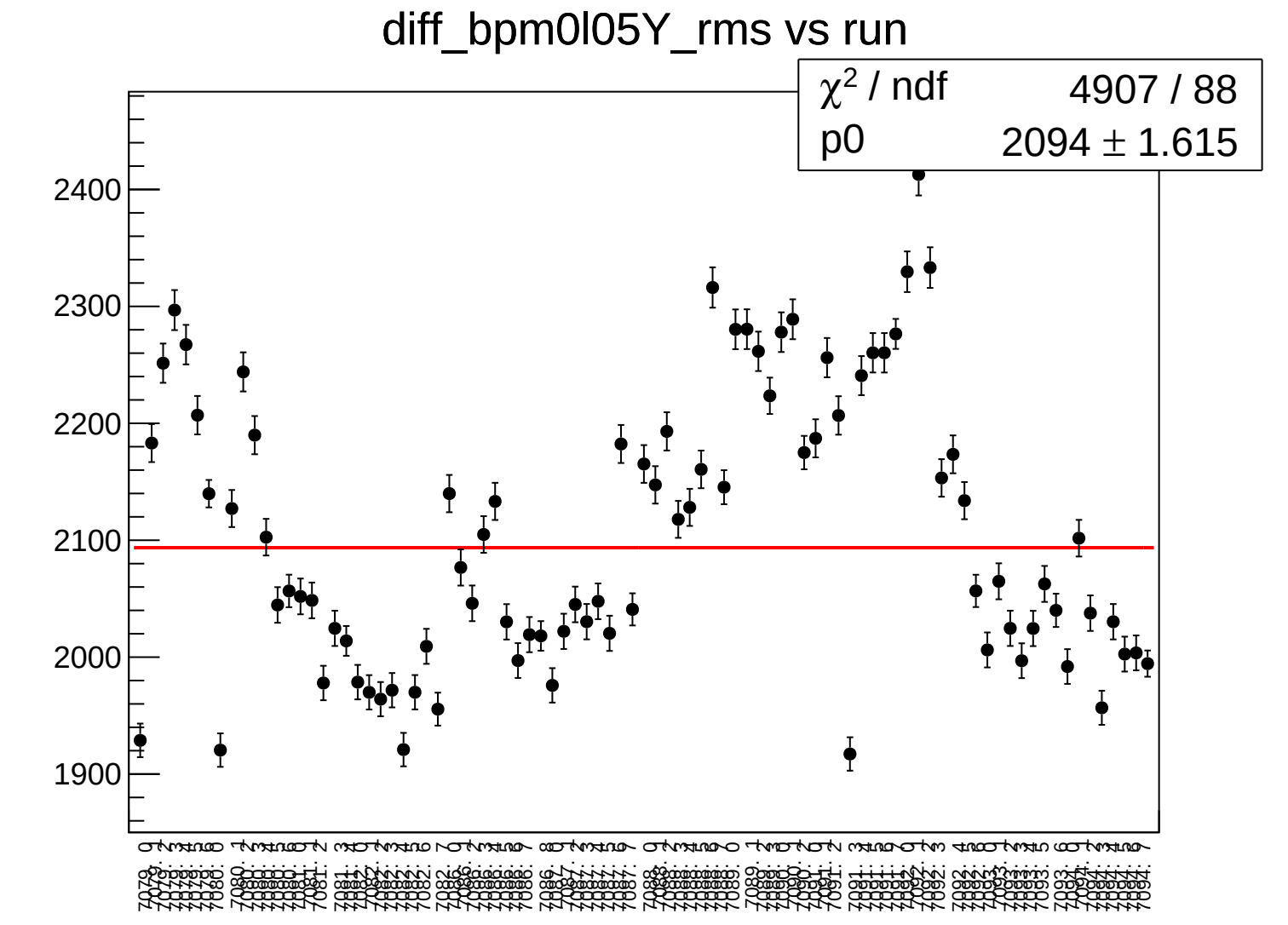

diff_bpm0l05X_mean vs run
χ² / ndf 68.97 / 88
p0 2.507 ± 6.93
pull
Entries 89
Mean −138.3
Std Dev 0

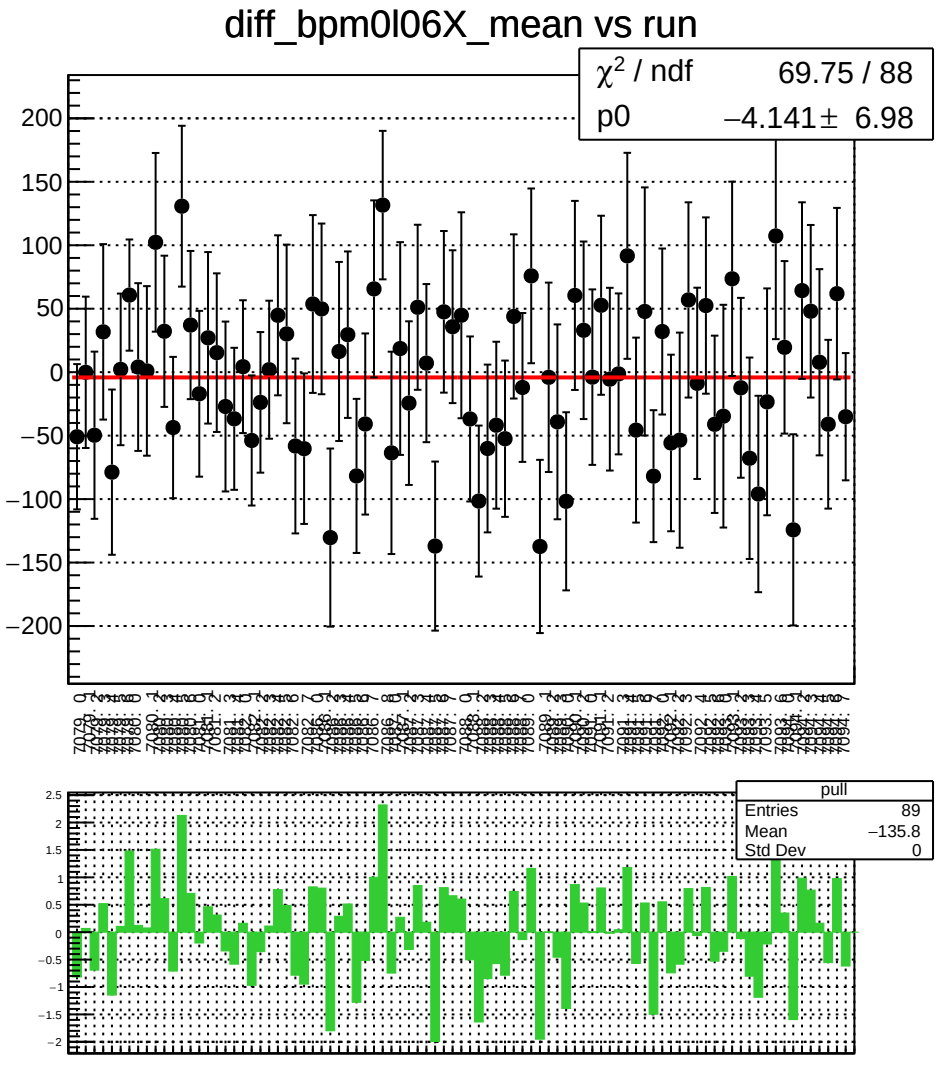

pull1D
Entries 89
Mean 0.009065
Std Dev 0.8802

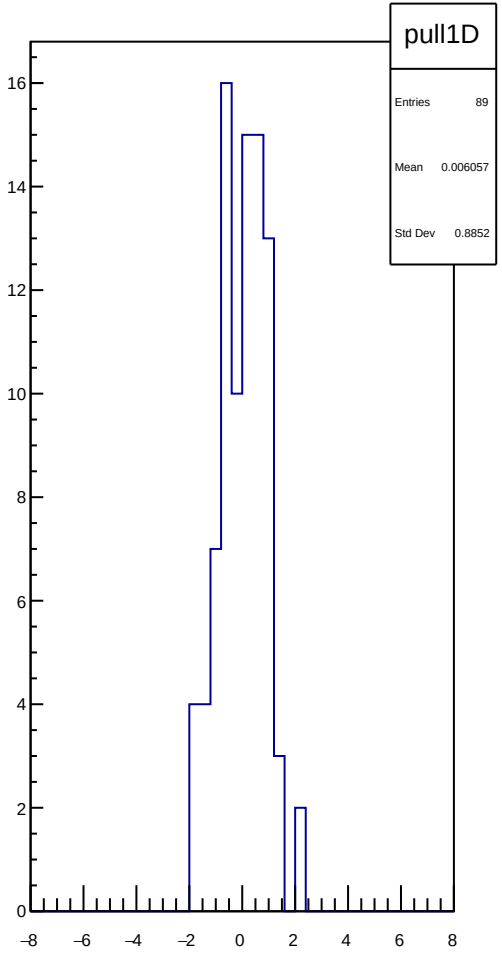

diff_bpm0l05X_rms vs run
χ² / ndf 1.852e+04 / 88
p0 6328 ± 4.9
9000
8500
8000
7500
7000
6500
6000
5500
5000

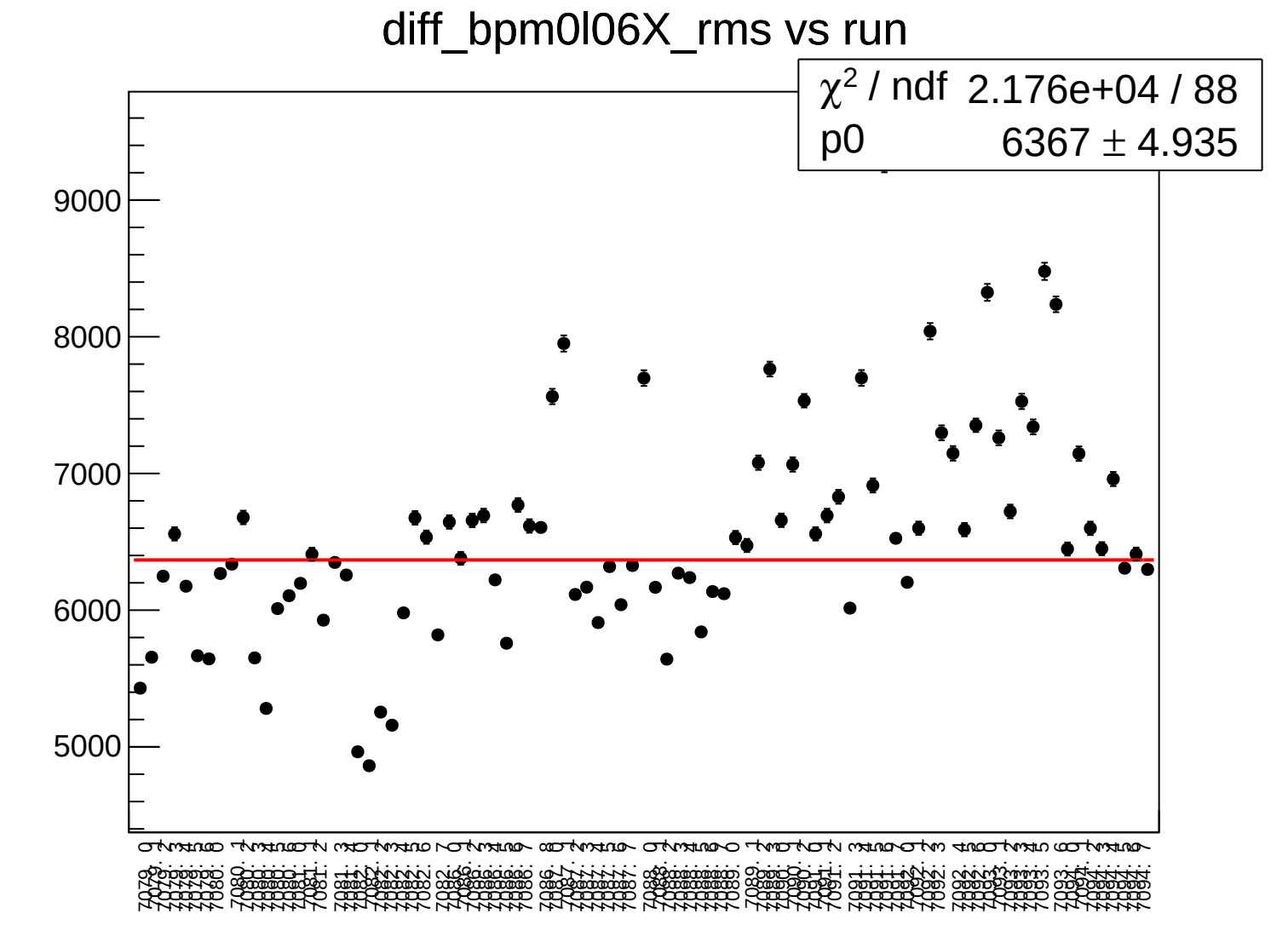

diff_bpm0l05Y_mean vs run
χ^2 / ndf 99.1 / 88
p0 13.91 ± 2.283
pull
Entries 89
Mean −138.8
Std Dev 0

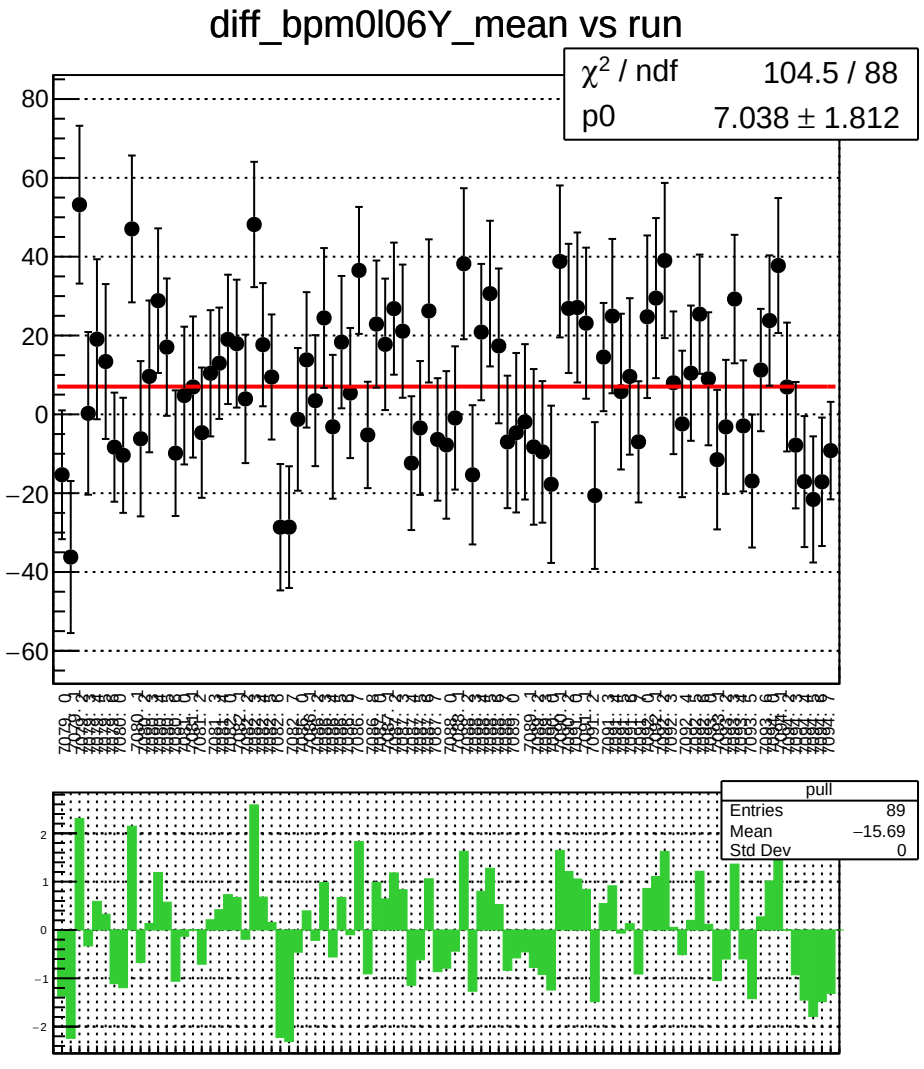

pull1D
Entries 89
Mean 0.01205
Std Dev 1.055

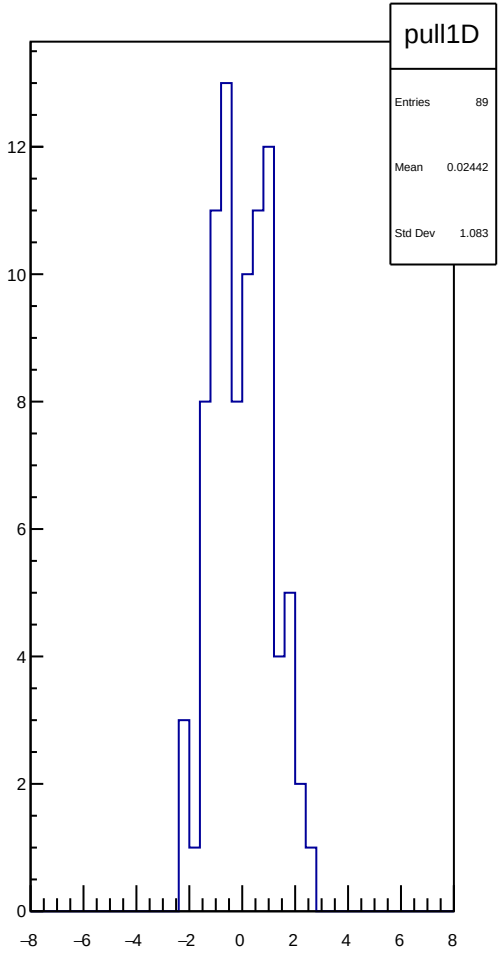

diff_bpm0l05Y_rms vs run
χ² / ndf 4907 / 88
p0 2094 ± 1.615
2400
2300
2200
2100
2000
1900

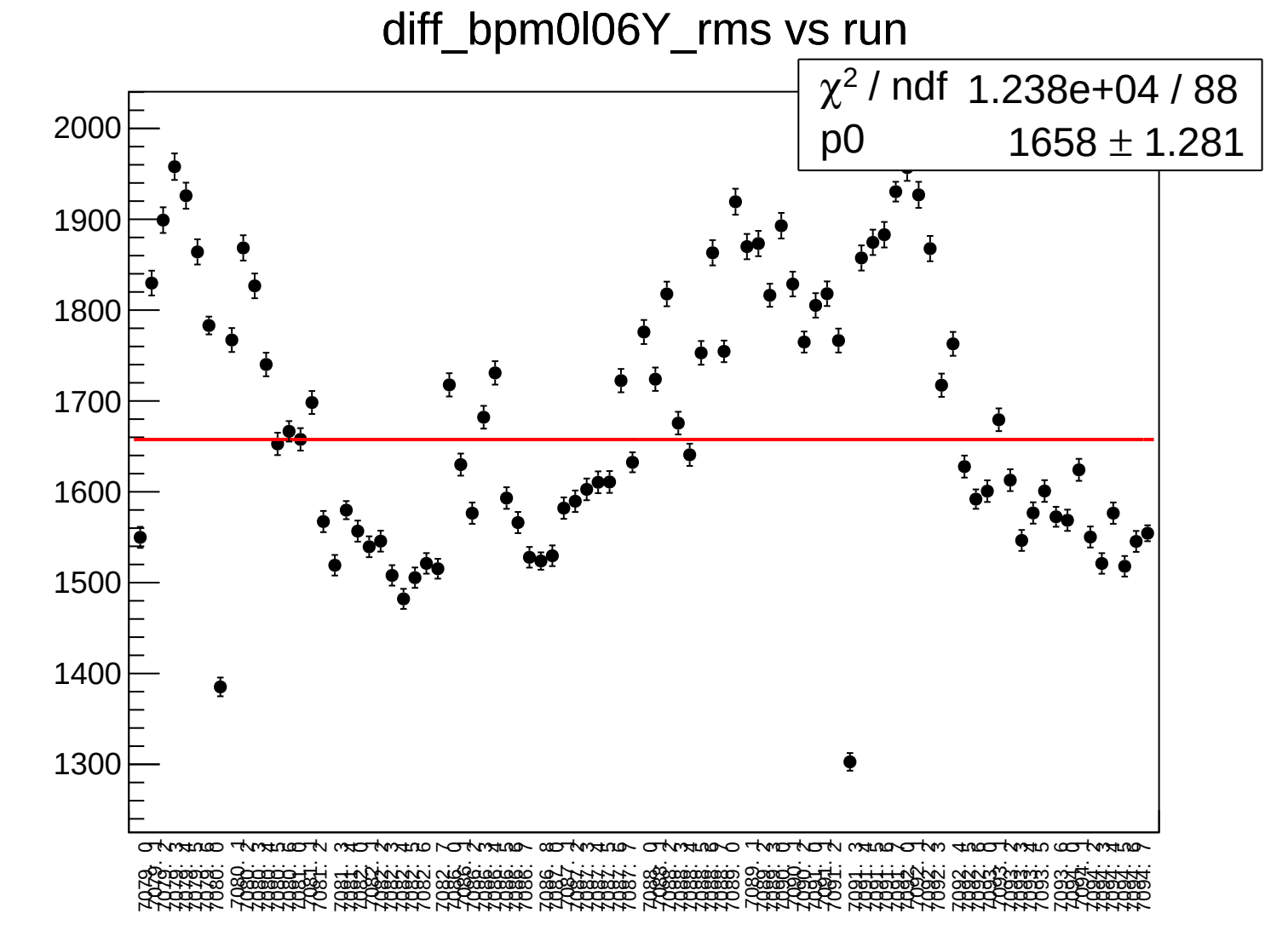

diff_bpm0l06X_mean vs run
χ^2 / ndf 69.75 / 88
p0 −4.141 ± 6.98
pull
Entries 89
Mean −135.8
Std Dev 0

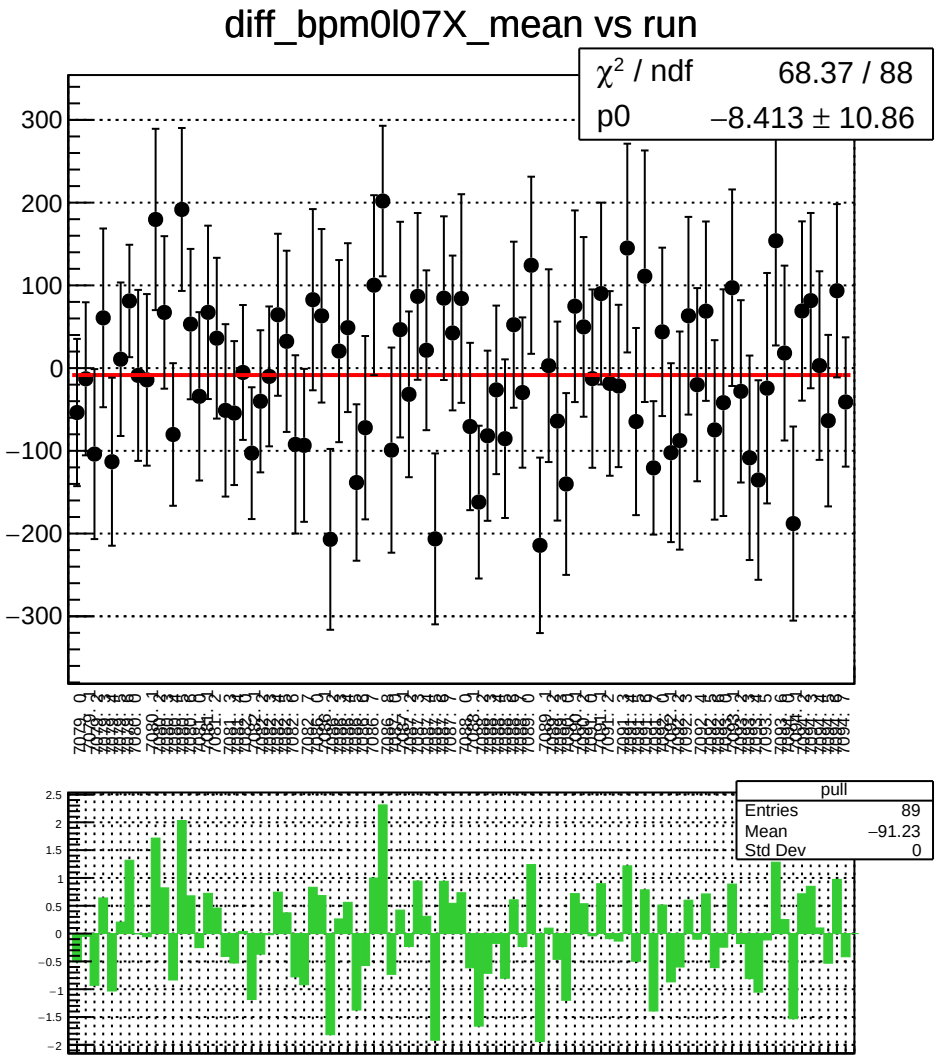

pull1D
Entries 89
Mean 0.006057
Std Dev 0.8852

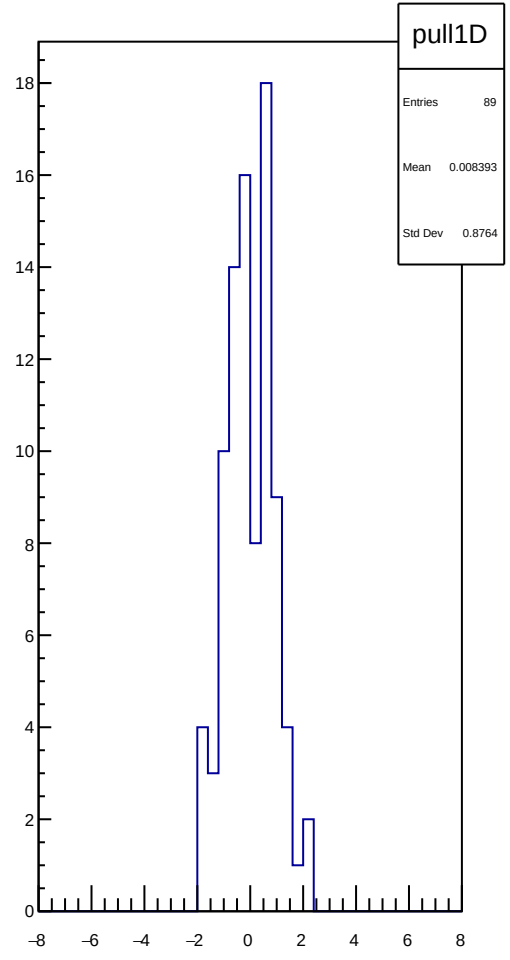

diff_bpm0l06X_rms vs run
χ² / ndf 2.176e+04 / 88
p0 6367 ± 4.935
9000
8000
7000
6000
5000

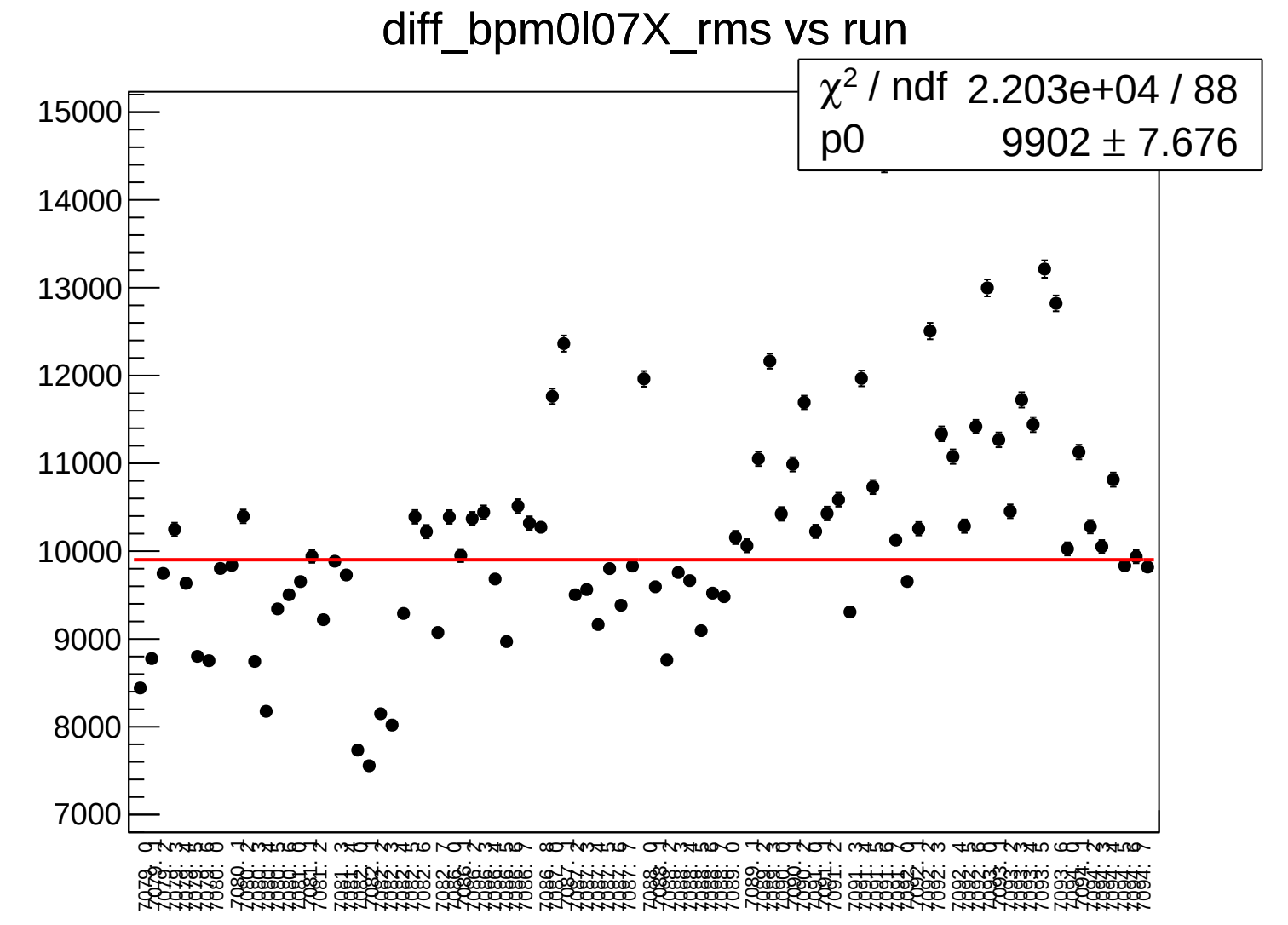

diff_bpm0l06Y_mean vs run
χ^2 / ndf 104.5 / 88
p0 7.038 ± 1.812
pull
Entries 89
Mean −15.69
Std Dev 0

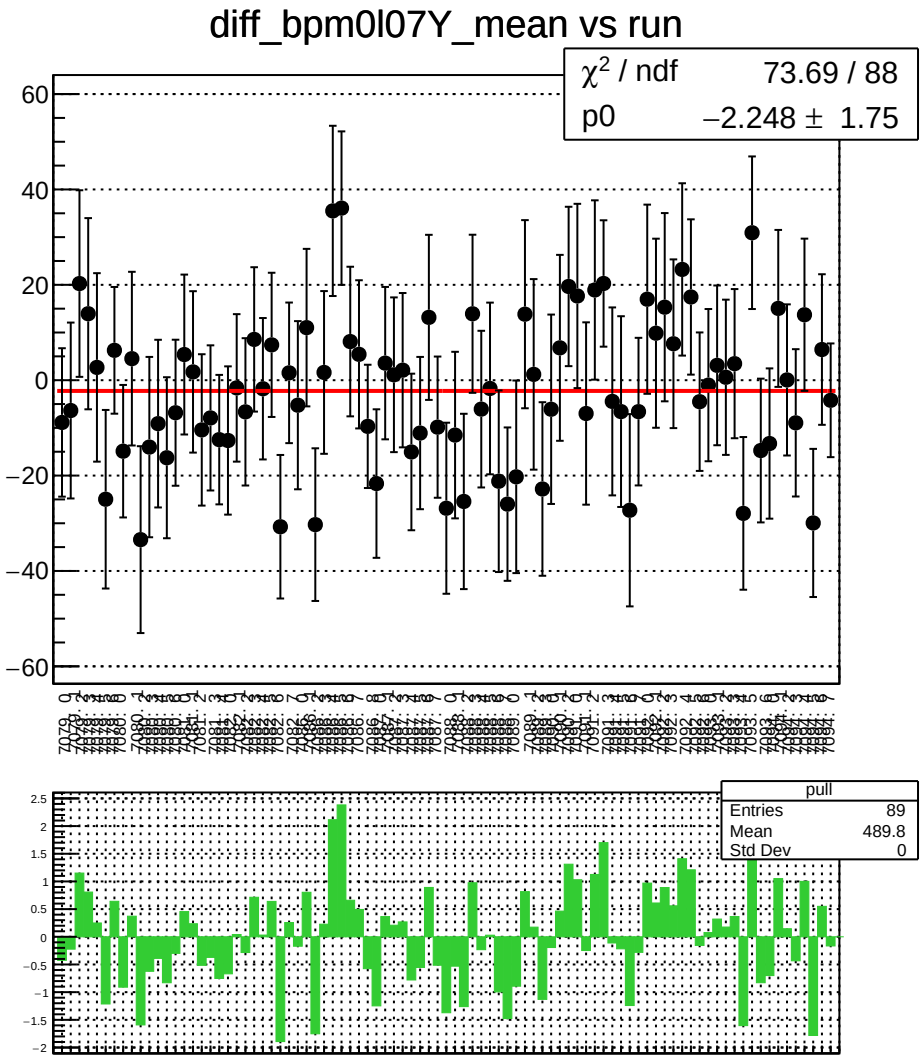

pull1D
Entries 89
Mean 0.02442
Std Dev 1.083

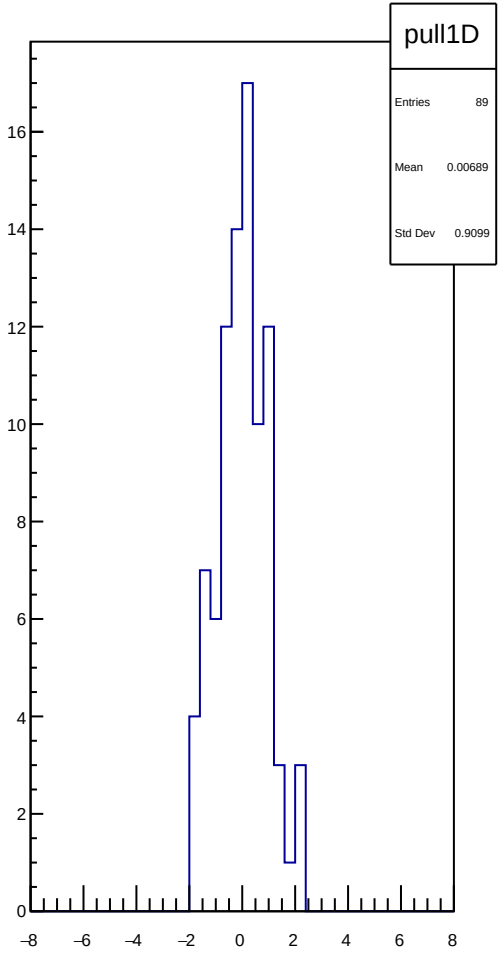

diff_bpm0l06Y_rms vs run
χ² / ndf 1.238e+04 / 88
p0 1658 ± 1.281
2000
1900
1800
1700
1600
1500
1400
1300

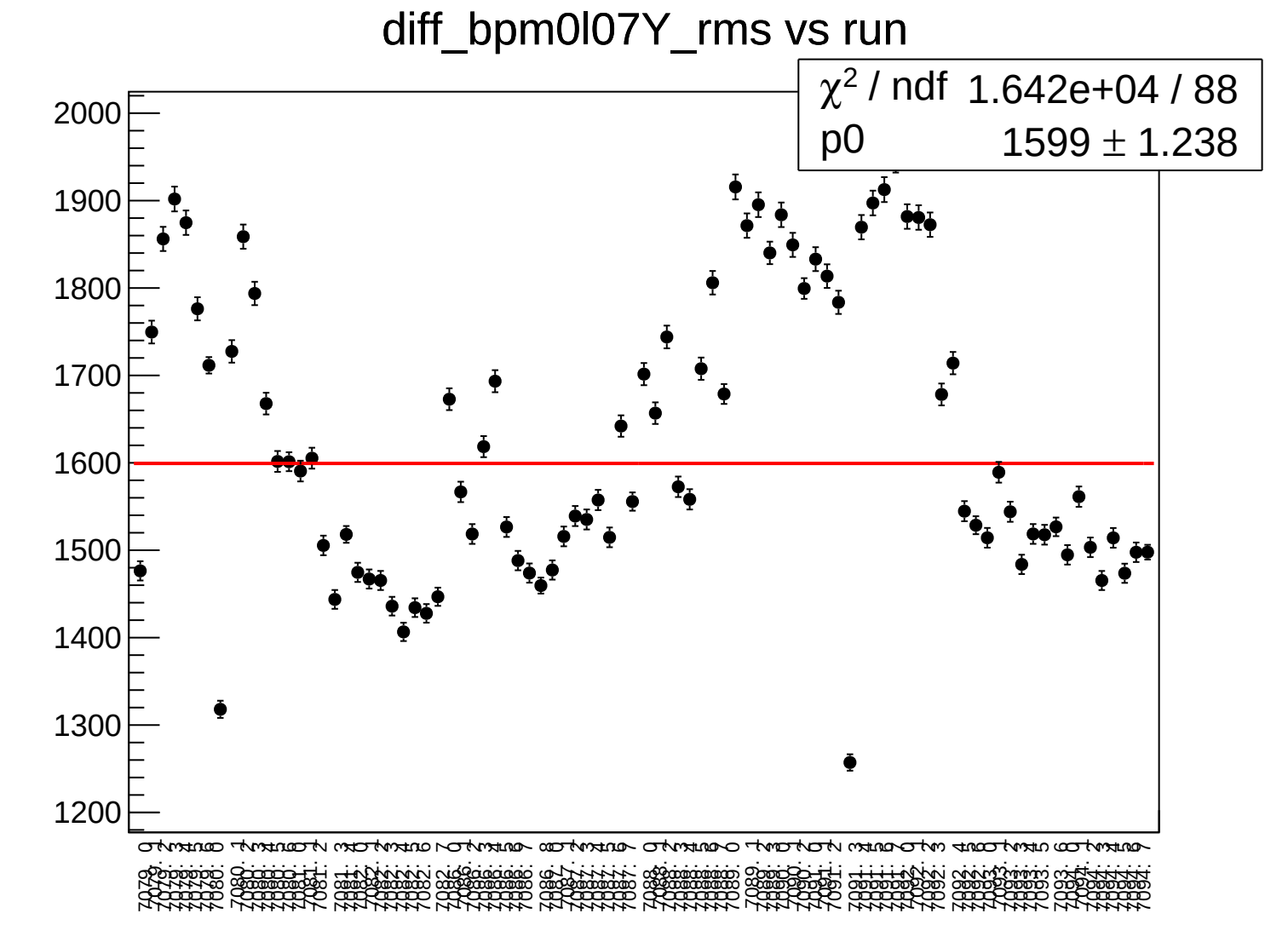

diff_bpm0l07X_mean vs run
χ² / ndf 68.37 / 88
p0 −8.413 ± 10.86
pull
Entries 89
Mean −91.23
Std Dev 0

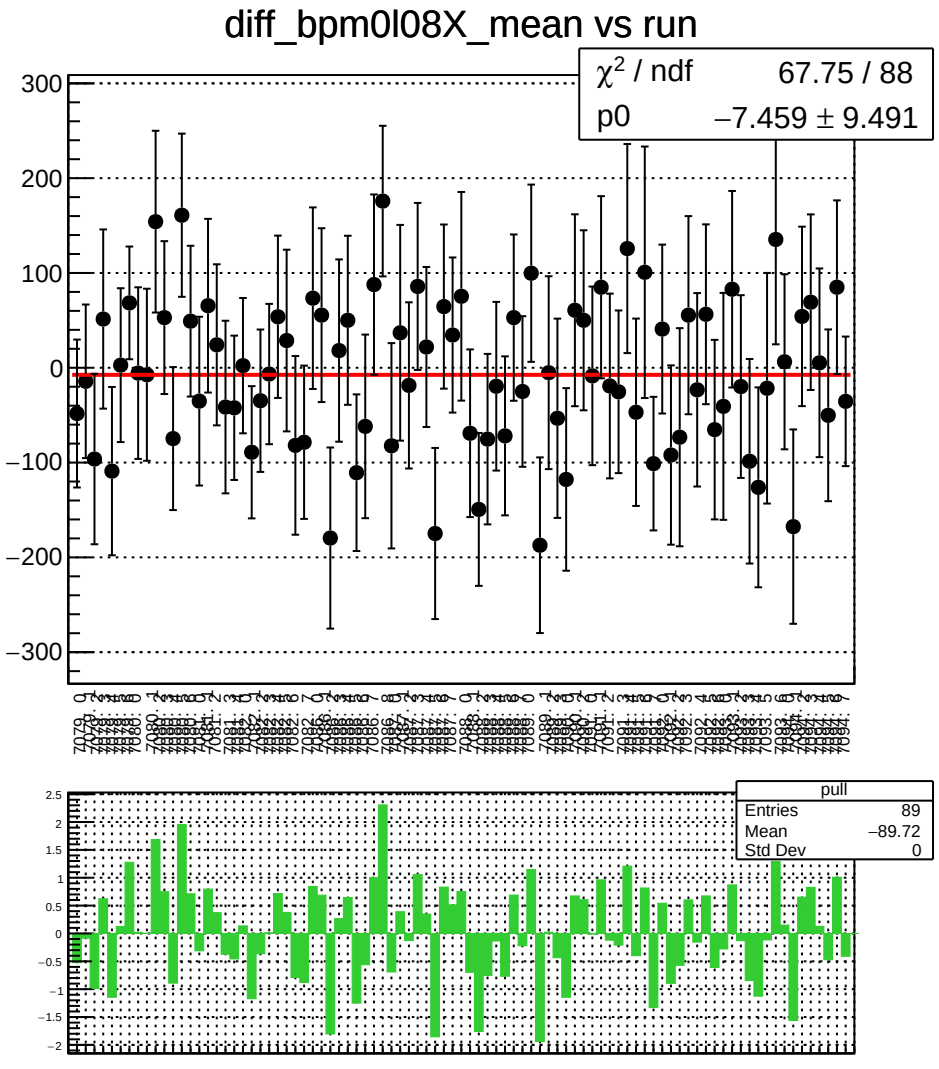

pull1D
Entries 89
Mean 0.008393
Std Dev 0.8764

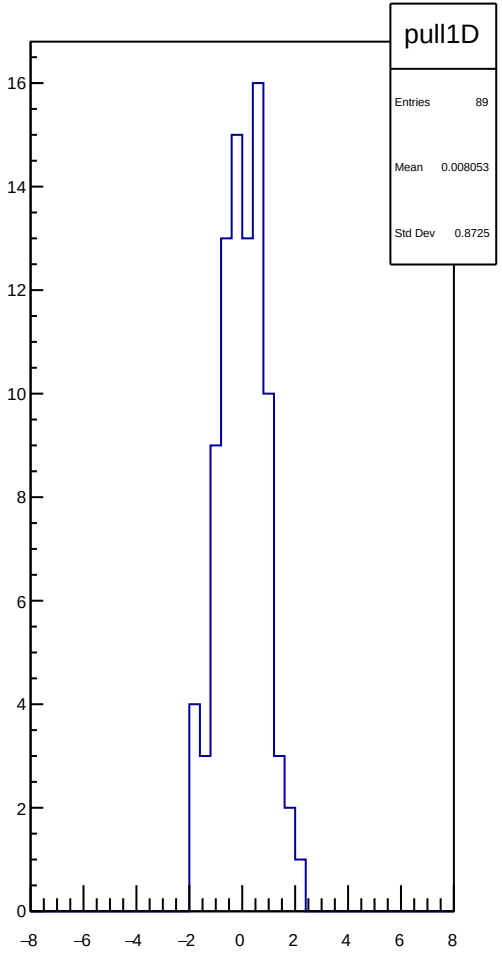

diff_bpm0l07X_rms vs run
χ² / ndf 2.203e+04 / 88
p0 9902 ± 7.676
15000
14000
13000
12000
11000
10000
9000
8000
7000

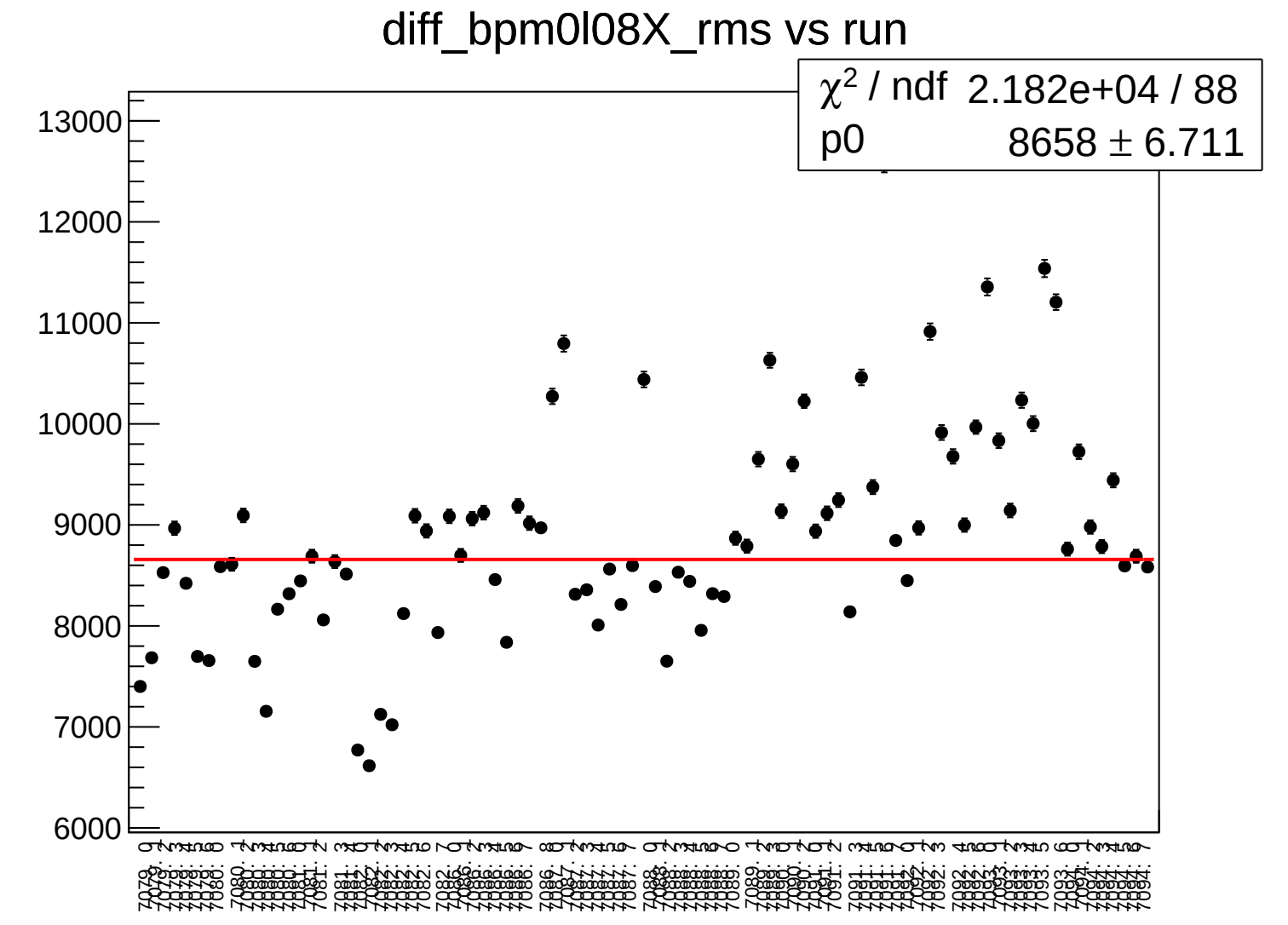

diff_bpm0l07Y_mean vs run
χ² / ndf 73.69 / 88
p0 −2.248 ± 1.75
pull
Entries 89
Mean 489.8
Std Dev 0

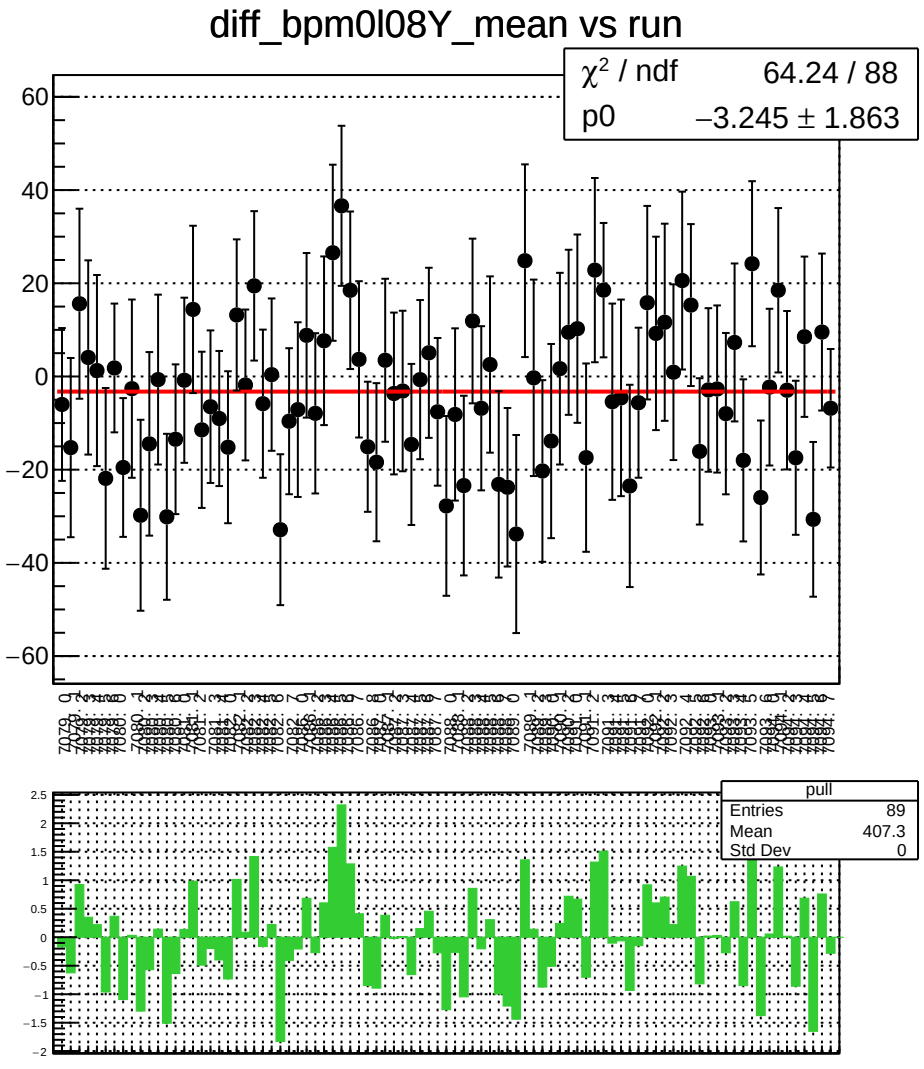

pull1D
Entries 89
Mean 0.00689
Std Dev 0.9099

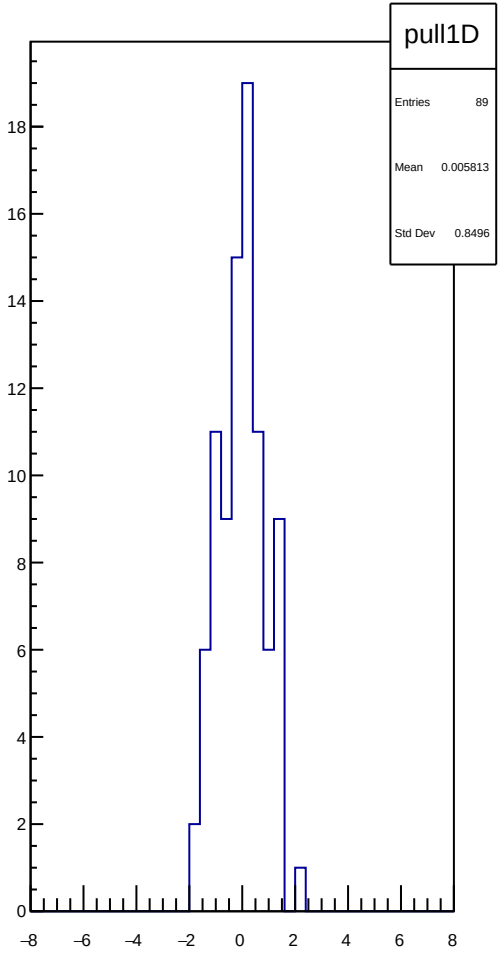

diff_bpm0l07Y_rms vs run
χ² / ndf 1.642e+04 / 88
p0 1599 ± 1.238
2000
1900
1800
1700
1600
1500
1400
1300
1200

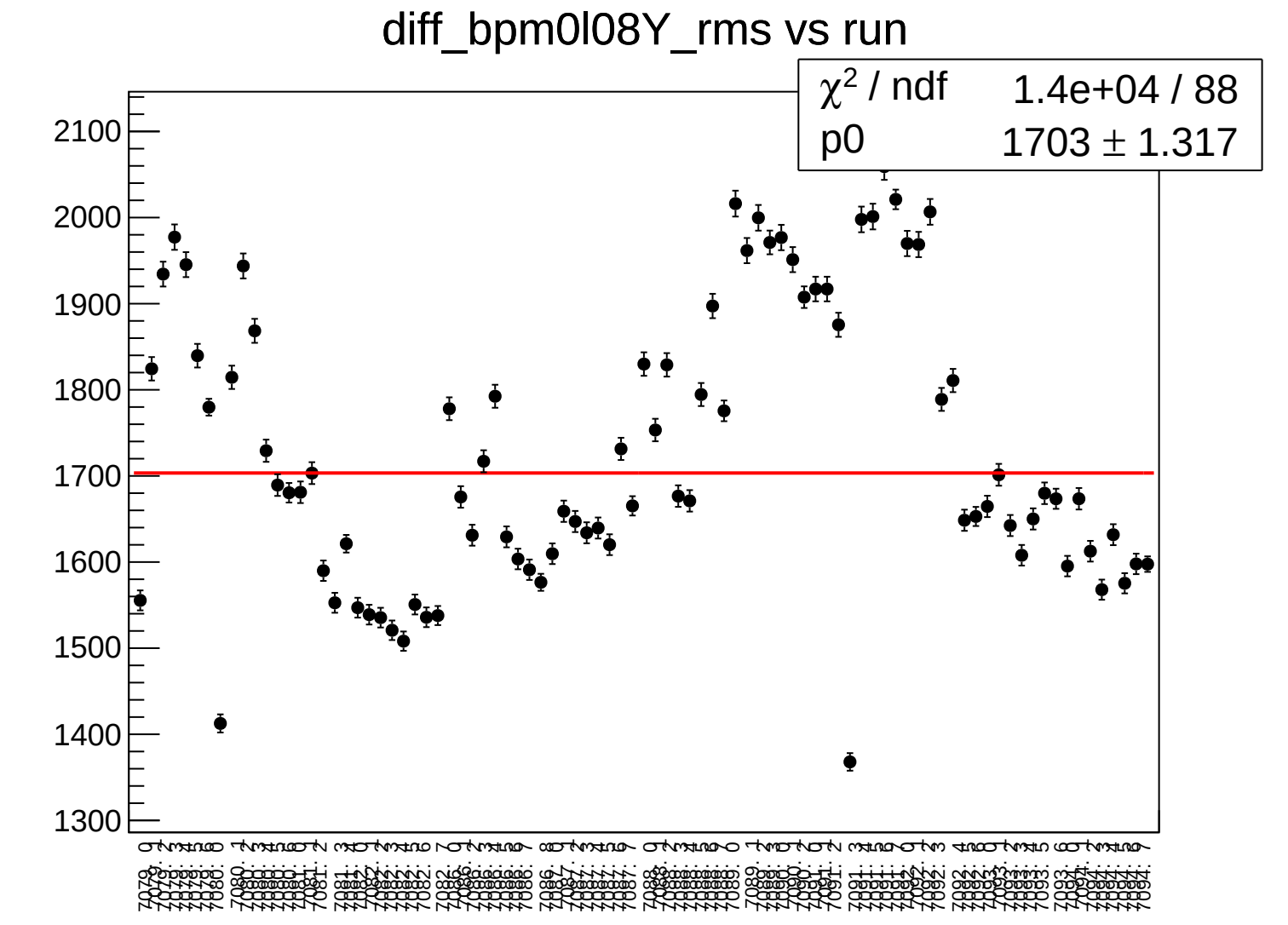

diff_bpm0l08X_mean vs run
χ^2 / ndf 67.75 / 88
p0 −7.459 ± 9.491
pull
Entries 89
Mean −89.72
Std Dev 0

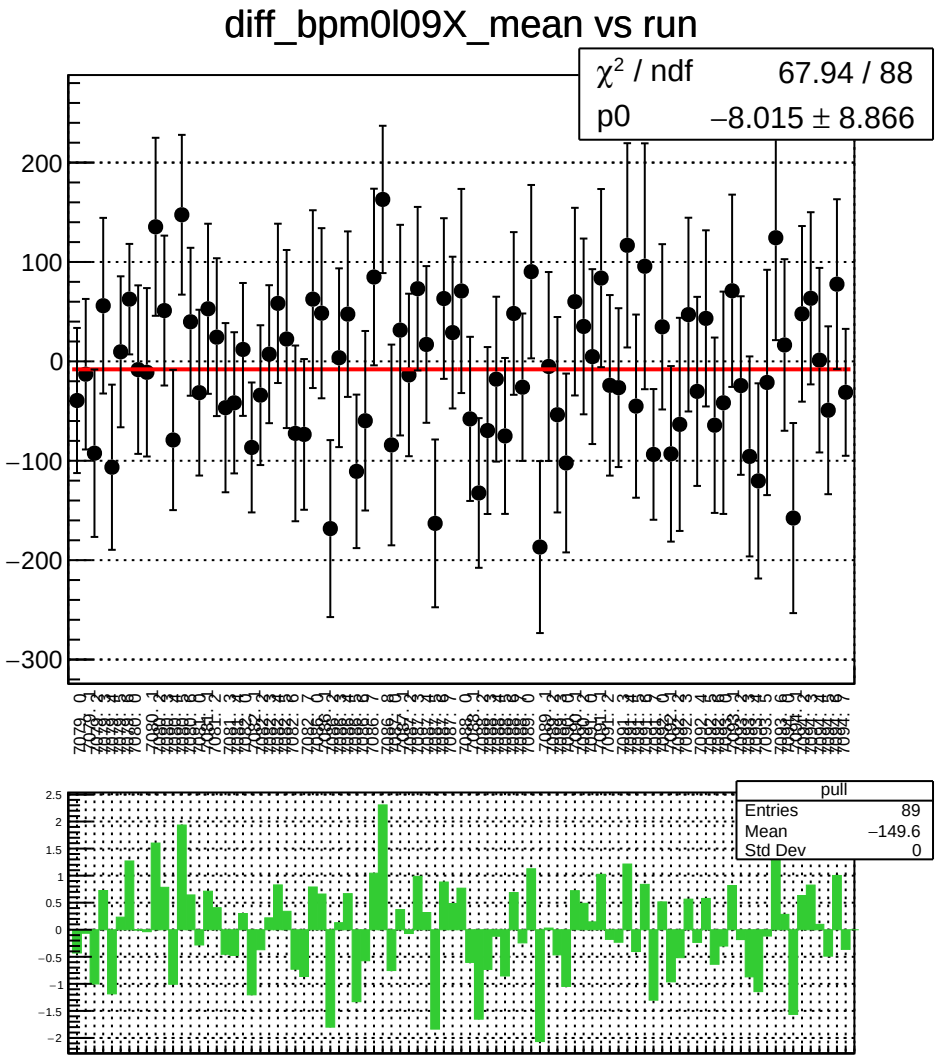

pull1D
Entries 89
Mean 0.008053
Std Dev 0.8725

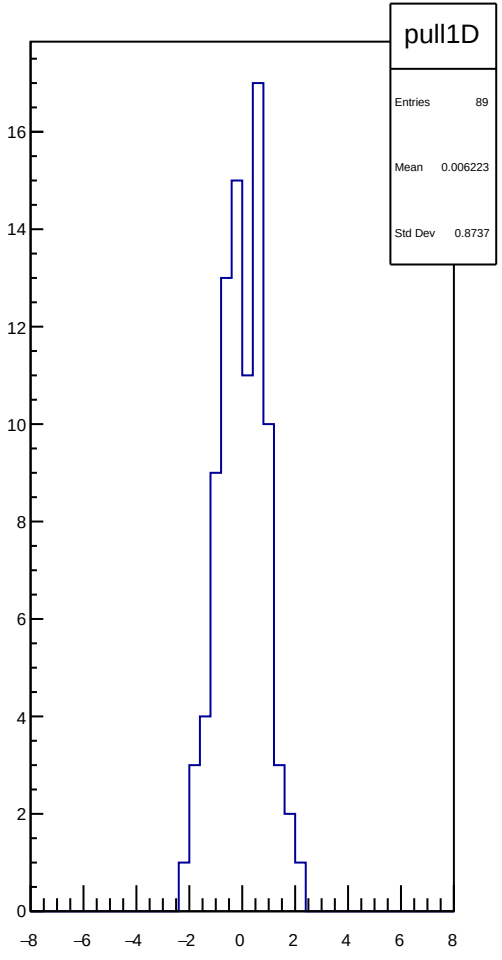

diff_bpm0l08X_rms vs run
χ² / ndf 2.182e+04 / 88
p0 8658 ± 6.711
13000
12000
11000
10000
9000
8000
7000
6000

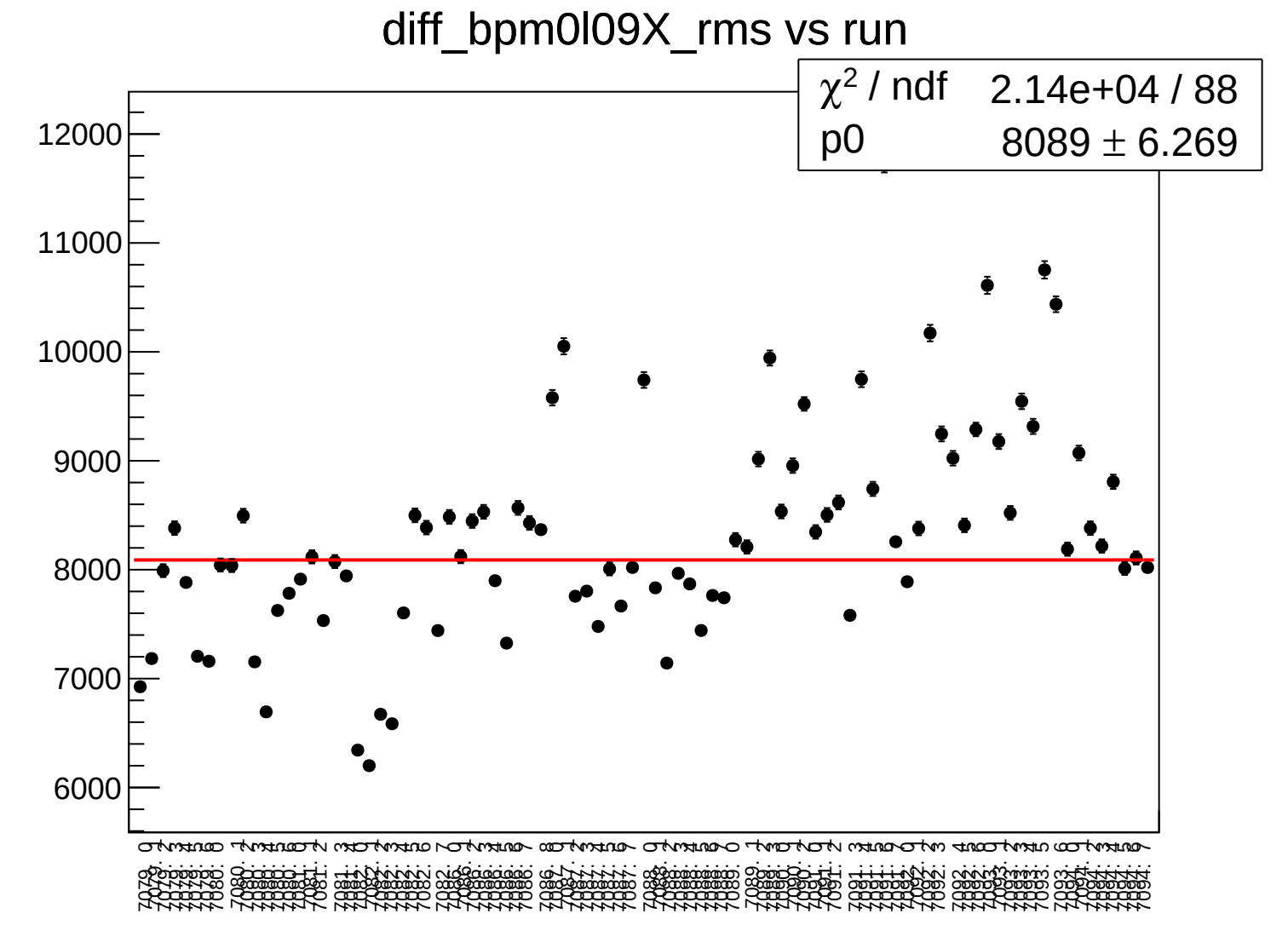

diff_bpm0l08Y_mean vs run
χ² / ndf 64.24 / 88
p0 −3.245 ± 1.863
pull
Entries 89
Mean 407.3
Std Dev 0

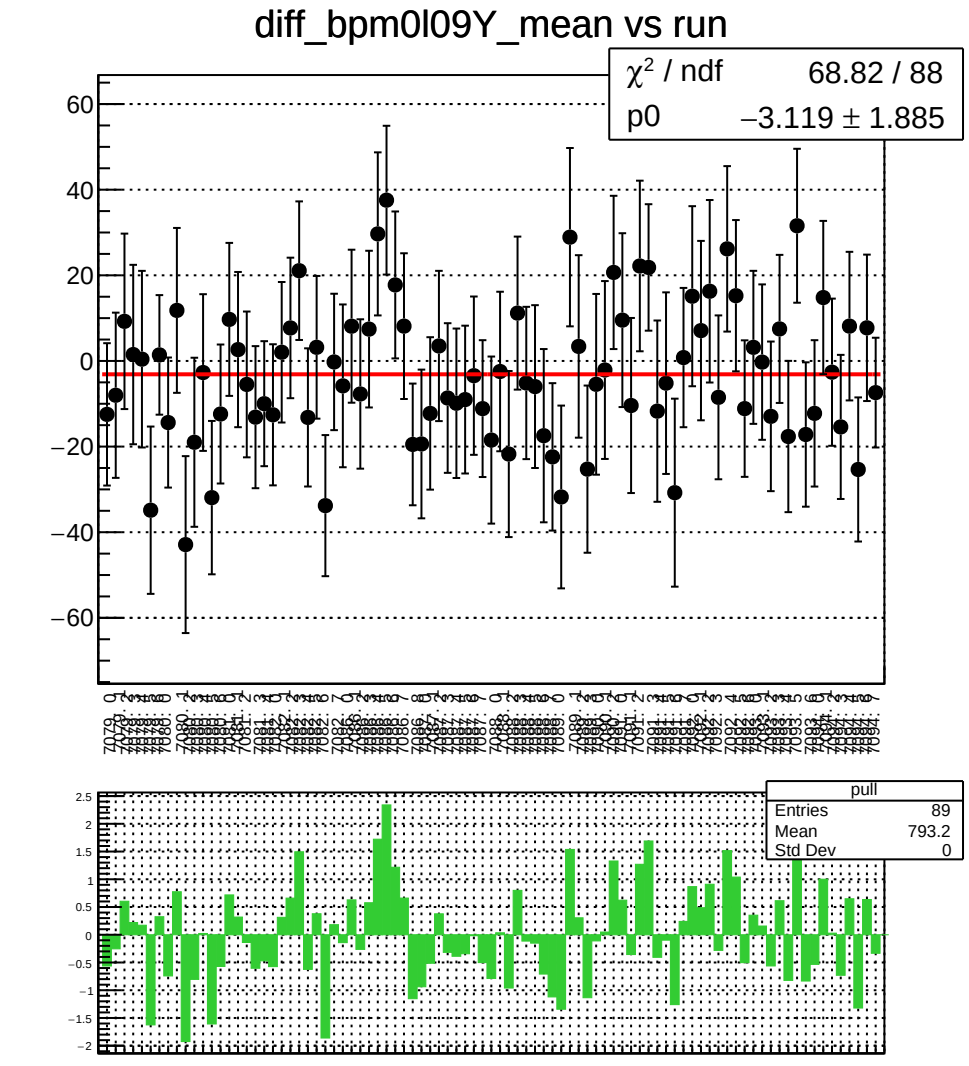

pull1D
Entries 89
Mean 0.005813
Std Dev 0.8496

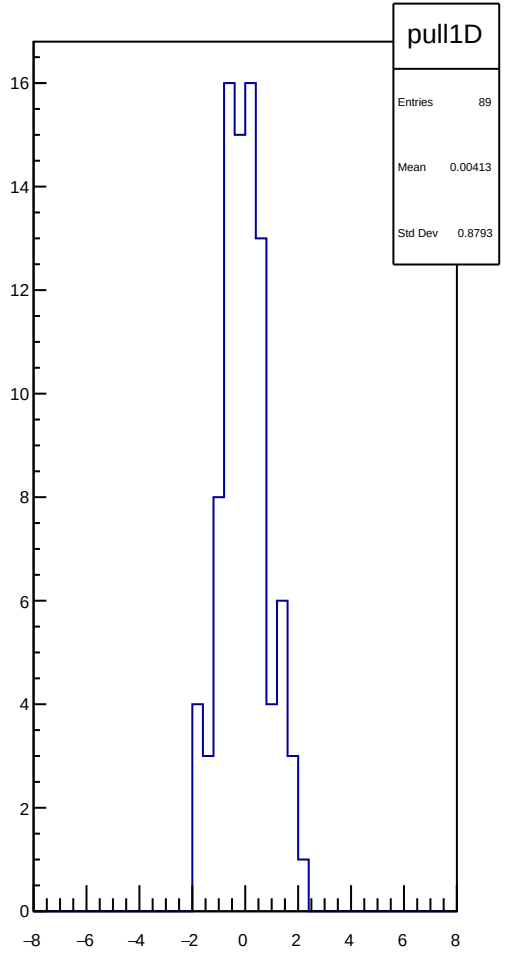

diff_bpm0l08Y_rms vs run
χ² / ndf 1.4e+04 / 88
p0 1703 ± 1.317
2100
2000
1900
1800
1700
1600
1500
1400
1300

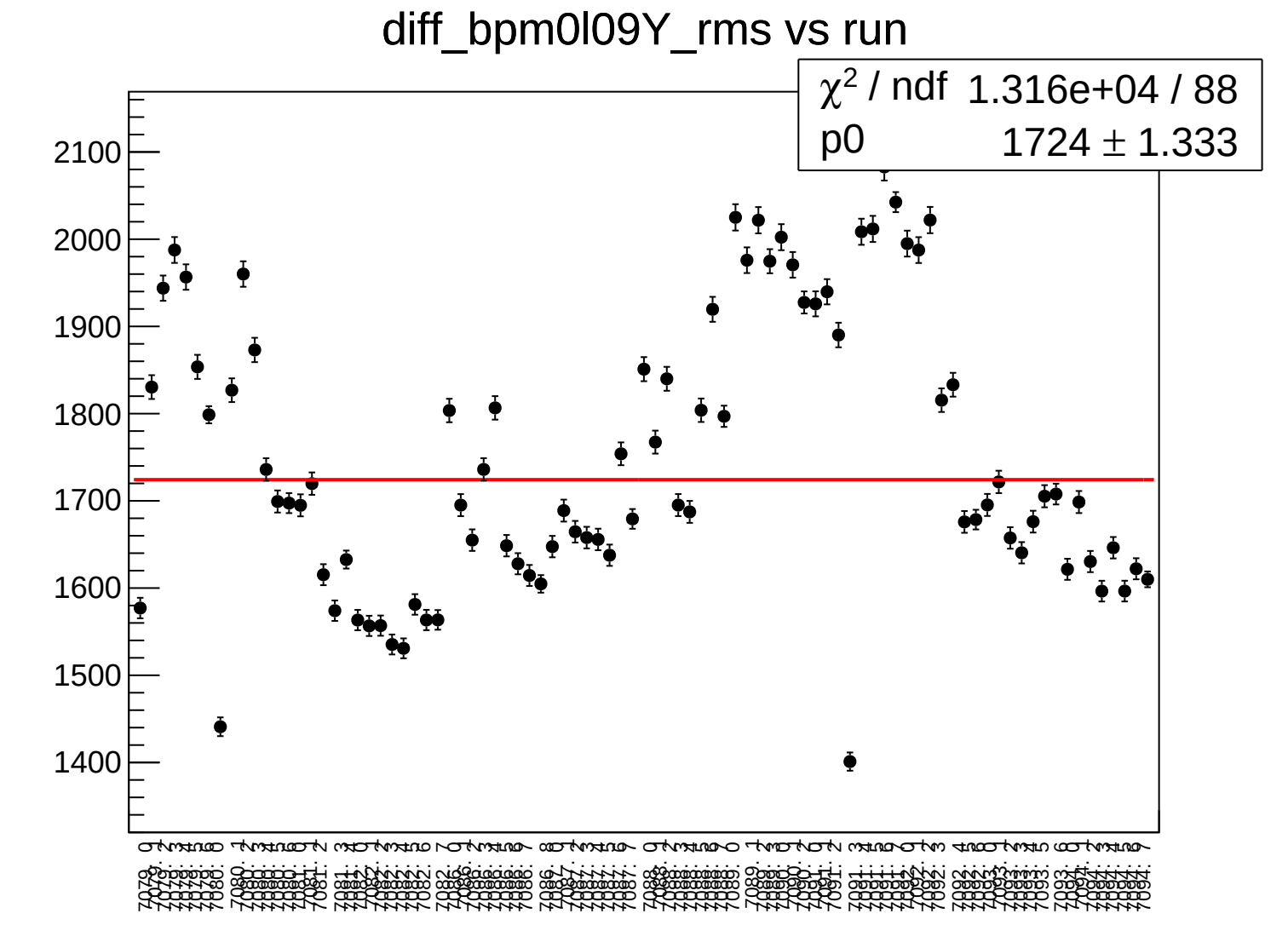

diff_bpm0l09X_mean vs run
χ² / ndf 67.94 / 88
p0 −8.015 ± 8.866
pull
Entries 89
Mean −149.6
Std Dev 0

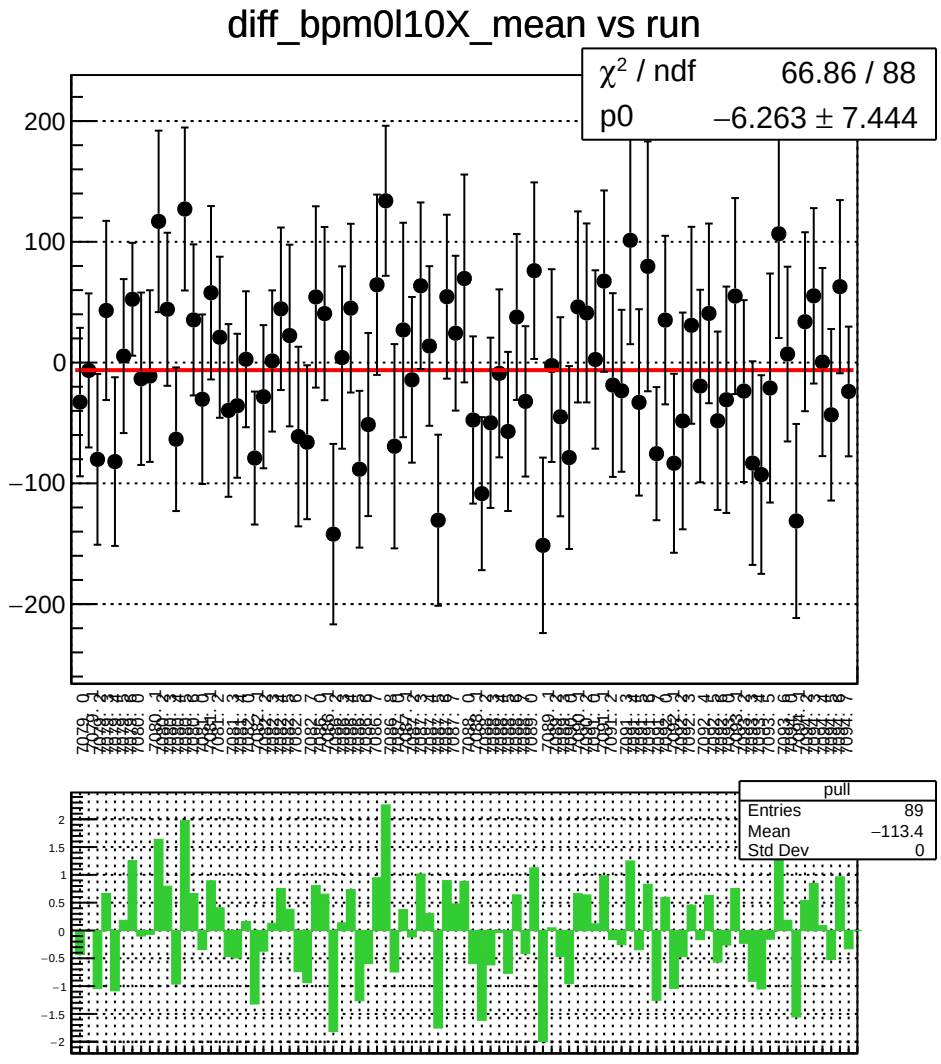

pull1D
Entries 89
Mean 0.006223
Std Dev 0.8737

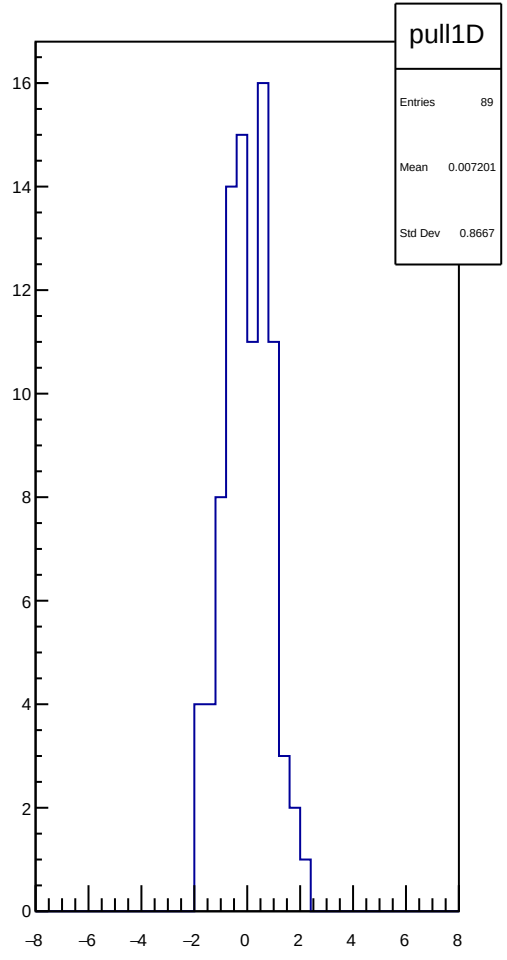

diff_bpm0l09X_rms vs run
χ² / ndf 2.14e+04 / 88
p0 8089 ± 6.269
12000
11000
10000
9000
8000
7000
6000

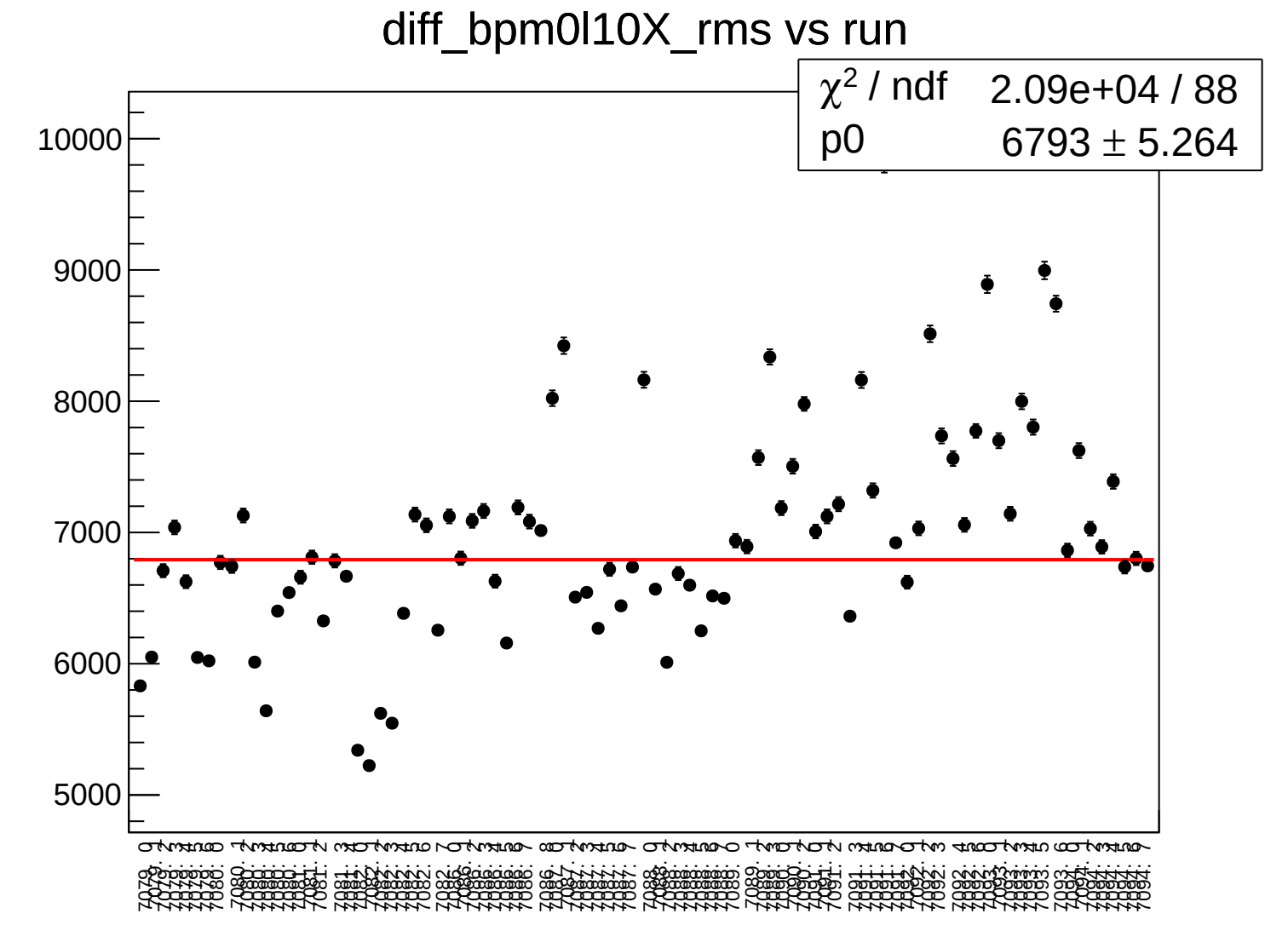

diff_bpm0l09Y_mean vs run
χ² / ndf 68.82 / 88
p0 −3.119 ± 1.885
pull
Entries 89
Mean 793.2
Std Dev 0

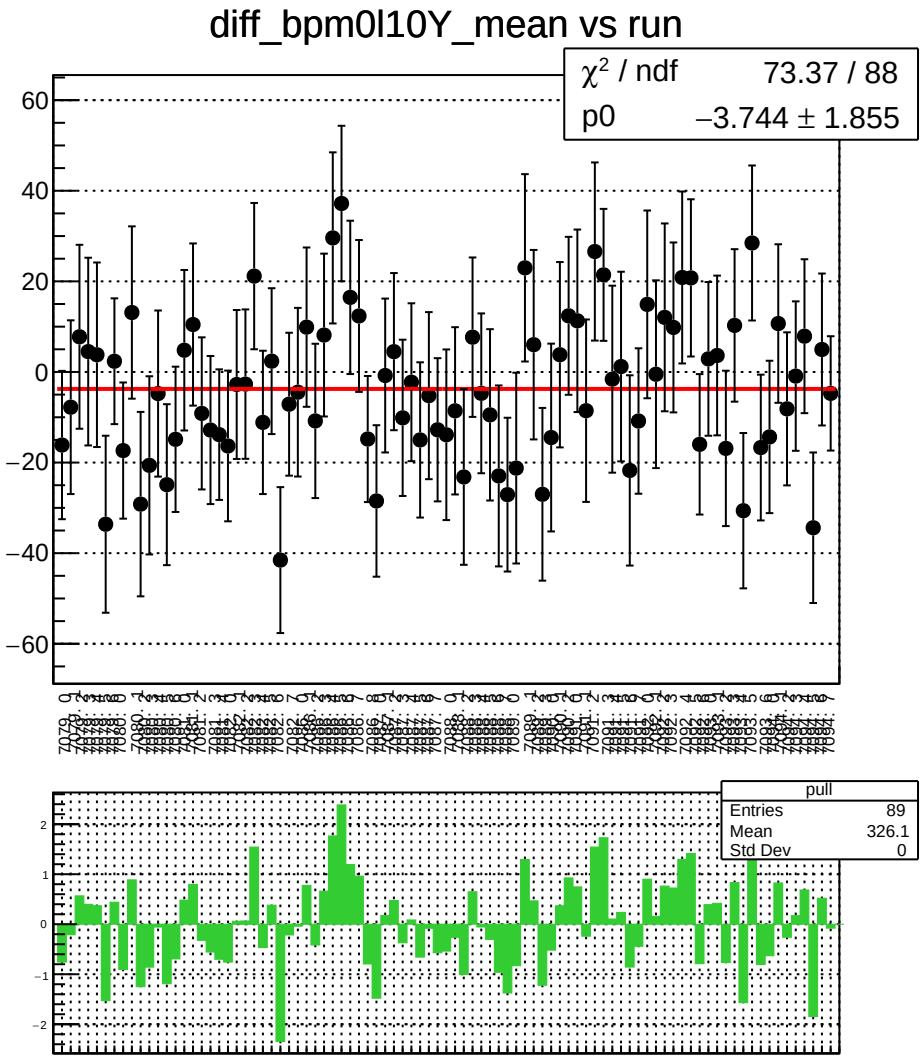

pull1D
Entries 89
Mean 0.00413
Std Dev 0.8793

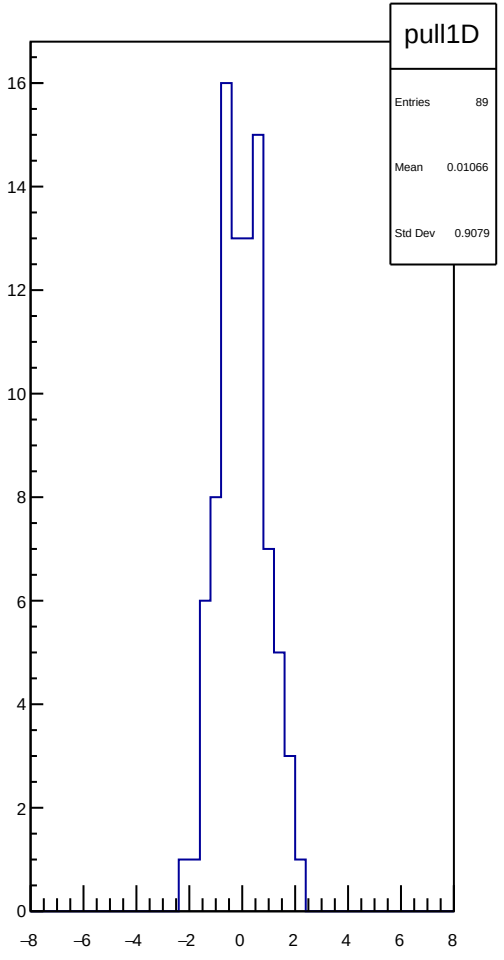

diff_bpm0l09Y_rms vs run
χ² / ndf 1.316e+04 / 88
p0 1724 ± 1.333
2100
2000
1900
1800
1700
1600
1500
1400

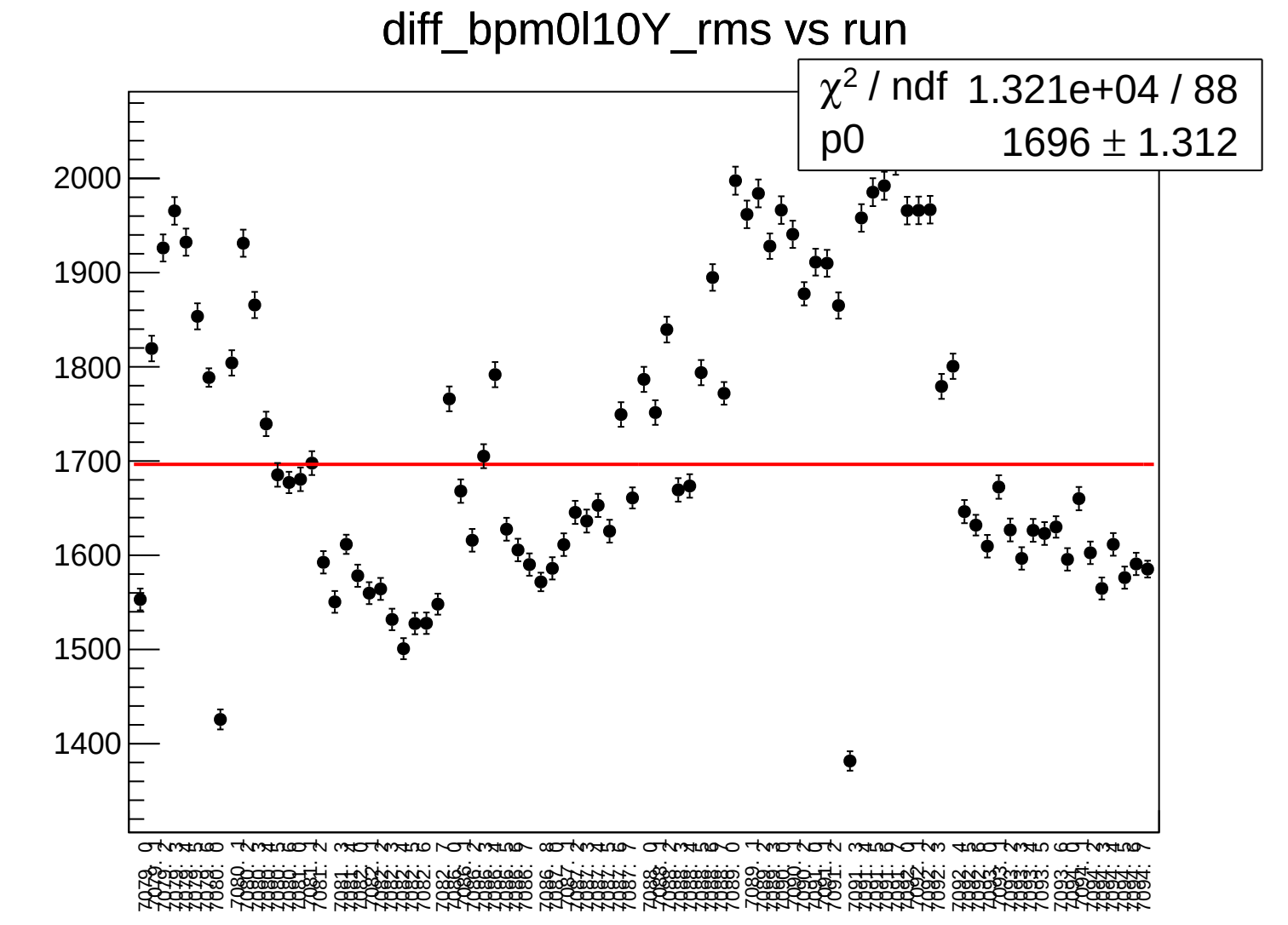

diff_bpm0l10X_mean vs run
χ² / ndf 66.86 / 88
p0 −6.263 ± 7.444
200
100
0
−100
−200
pull
Entries 89
Mean −113.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

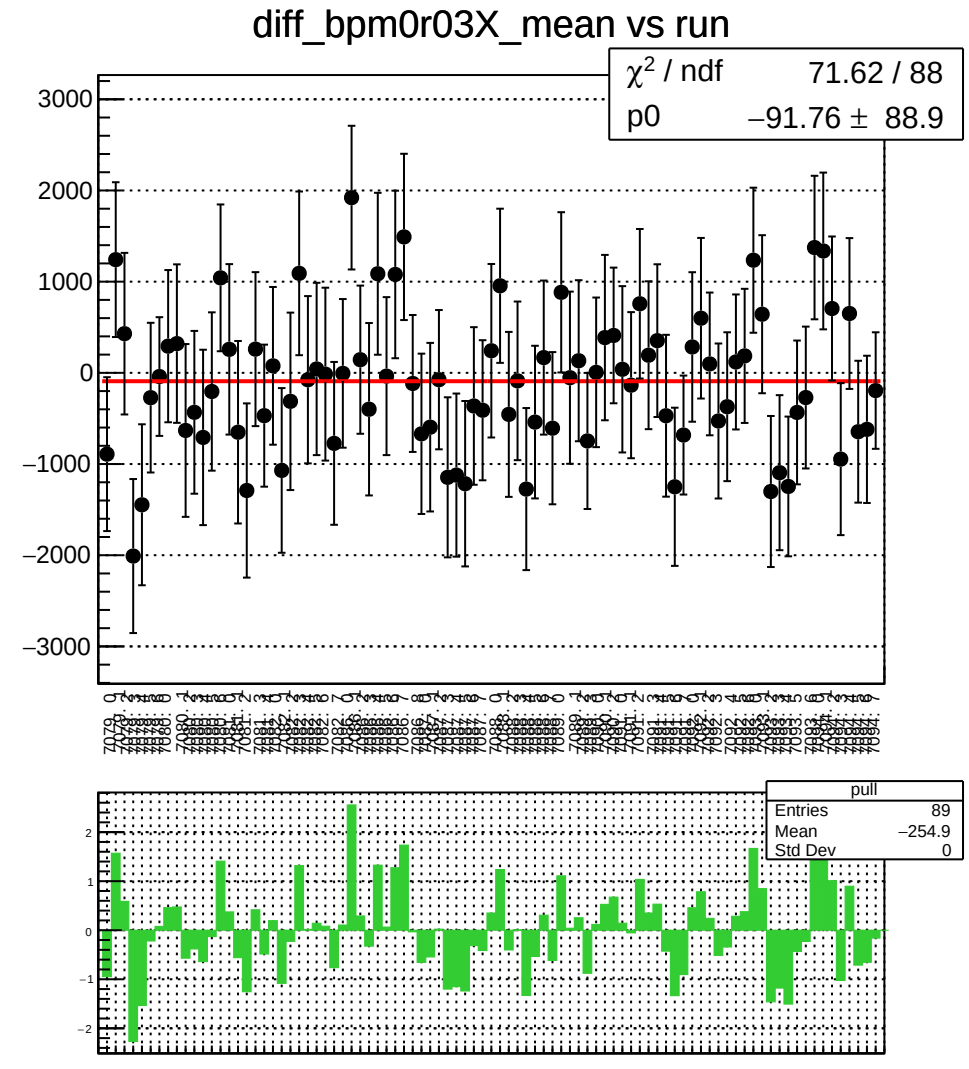

pull1D
Entries 89
Mean 0.007201
Std Dev 0.8667
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

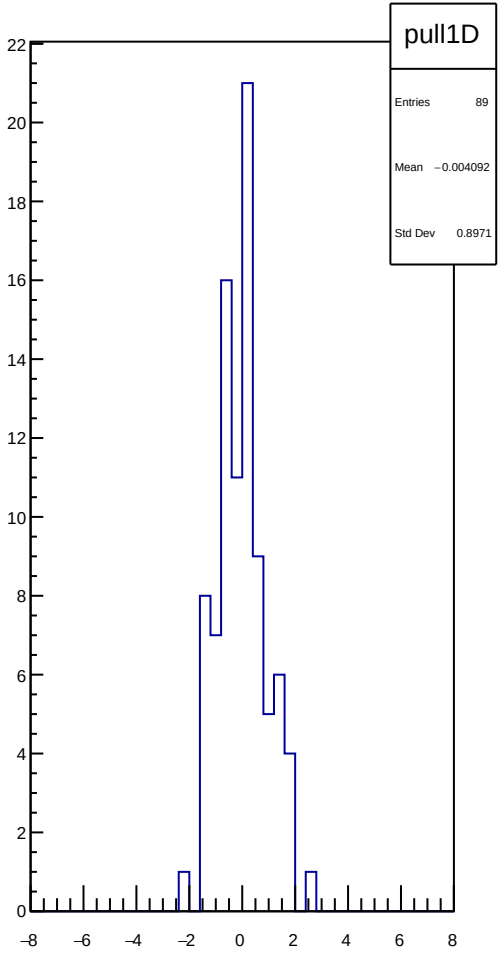

diff_bpm0l10X_rms vs run
χ² / ndf 2.09e+04 / 88
p0 6793 ± 5.264
10000
9000
8000
7000
6000
5000

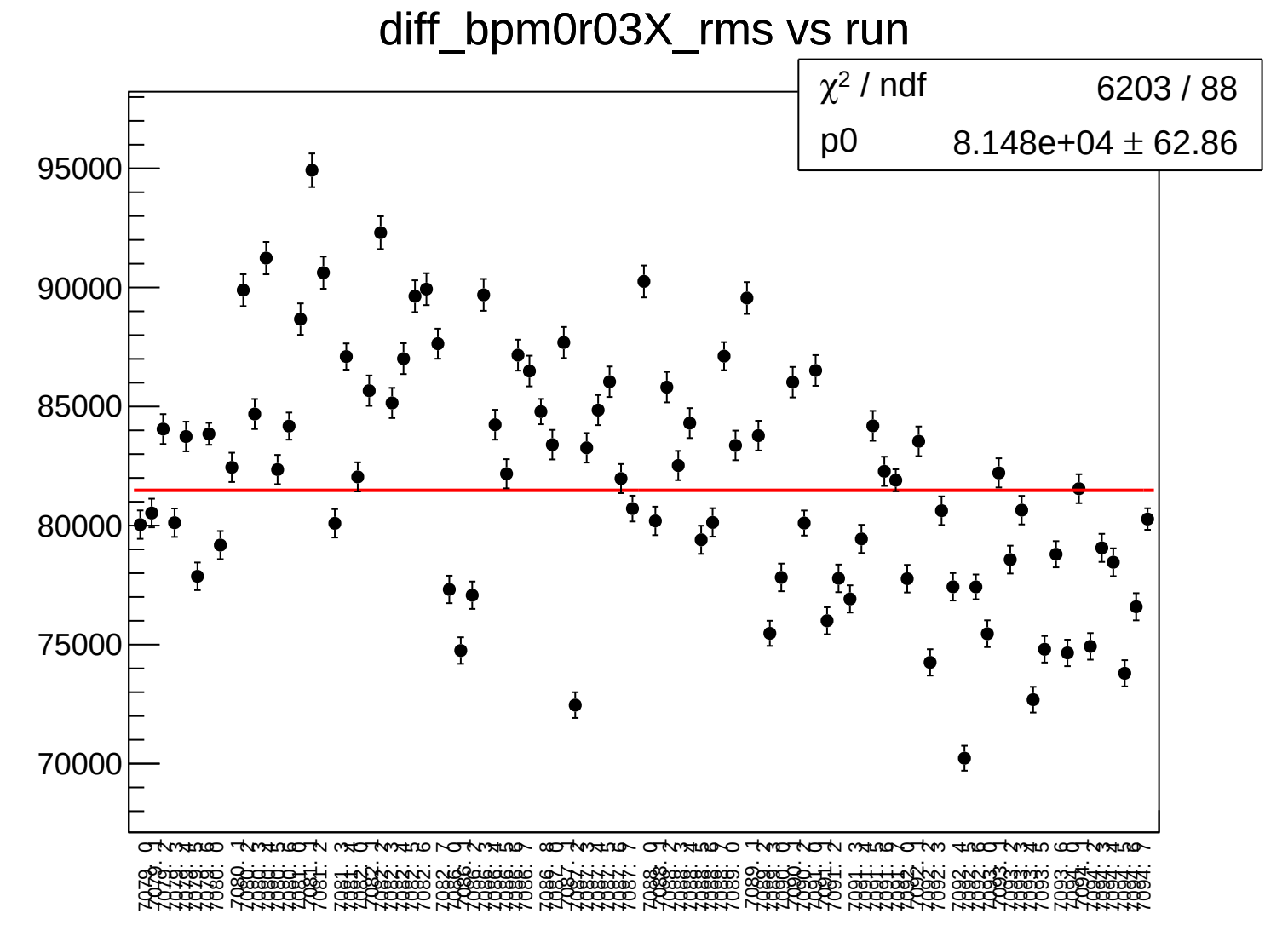

diff_bpm0l10Y_mean vs run
χ² / ndf 73.37 / 88
p0 −3.744 ± 1.855
pull
Entries 89
Mean 326.1
Std Dev 0

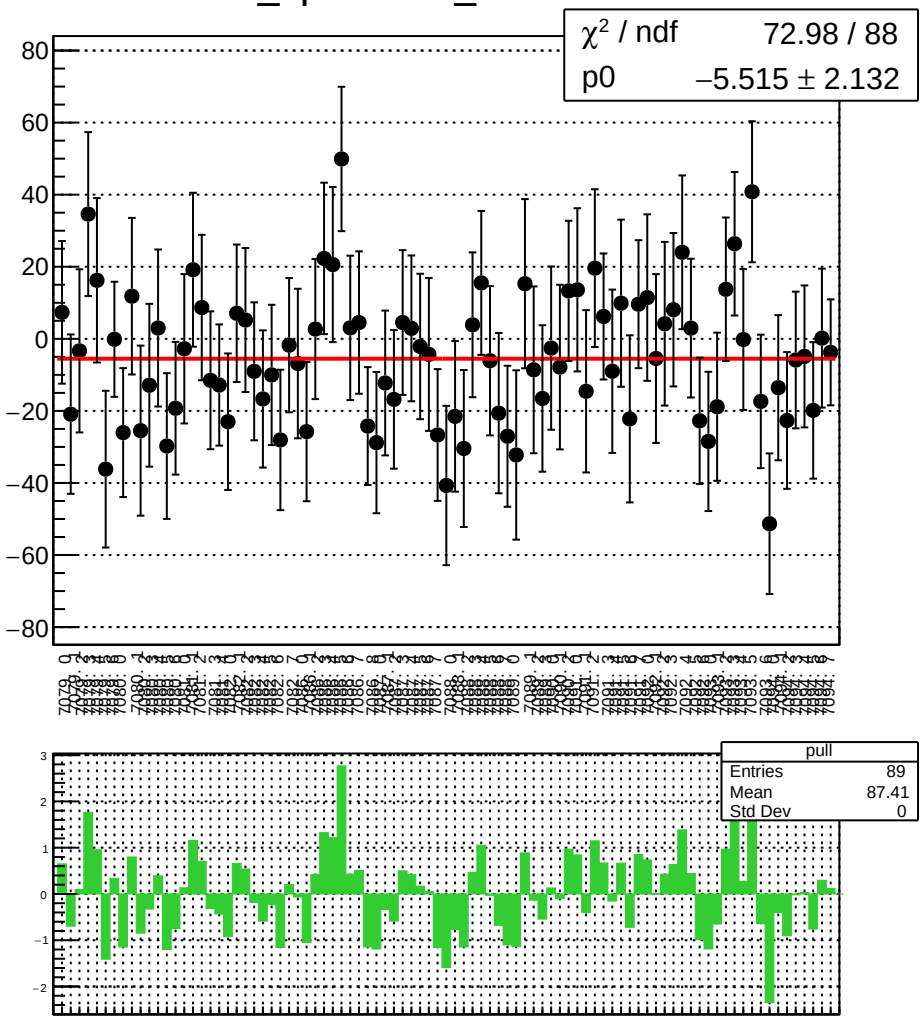

pull1D
Entries 89
Mean 0.01066
Std Dev 0.9079

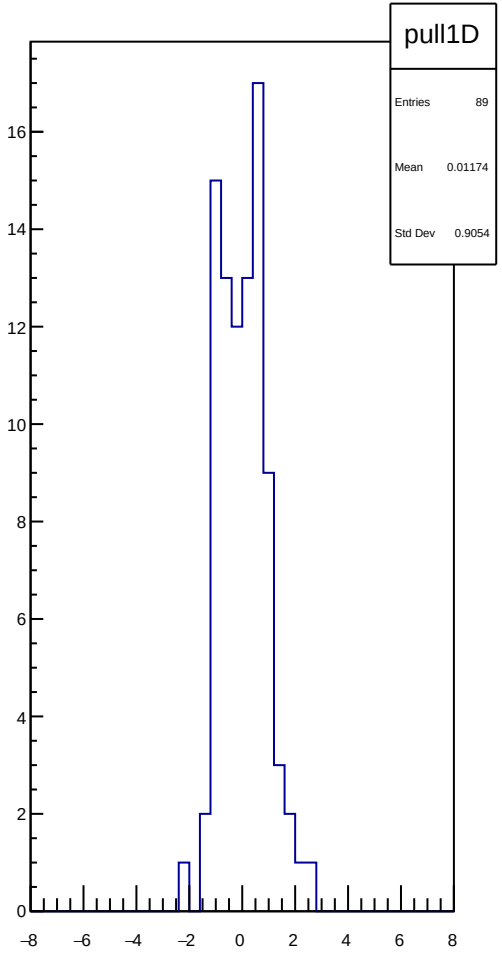

diff_bpm0l10Y_rms vs run
χ² / ndf 1.321e+04 / 88
p0 1696 ± 1.312
2000
1900
1800
1700
1600
1500
1400

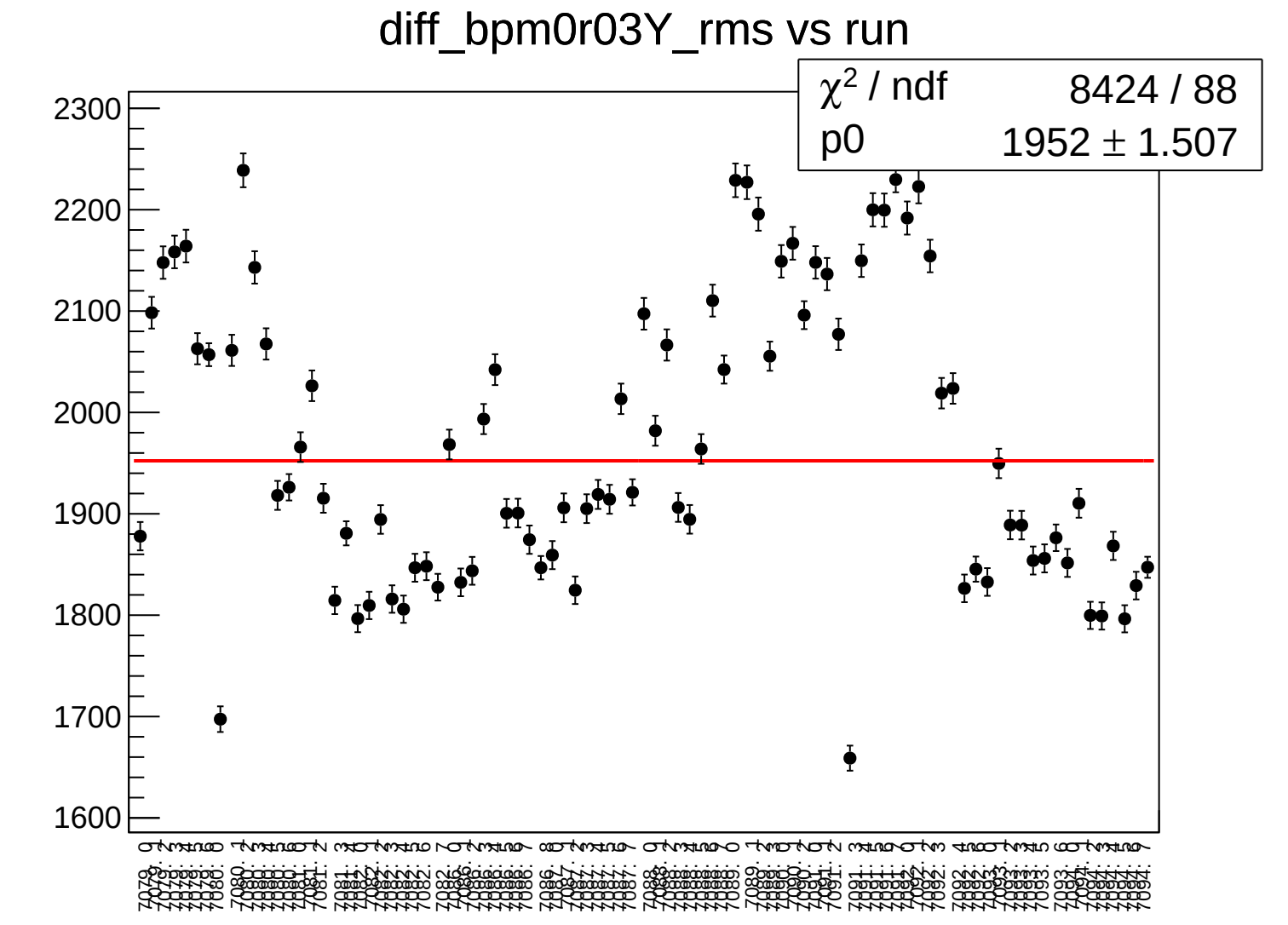

diff_bpm0r03X_mean vs run
χ² / ndf 71.62 / 88
p0 −91.76 ± 88.9
pull
Entries 89
Mean −254.9
Std Dev 0

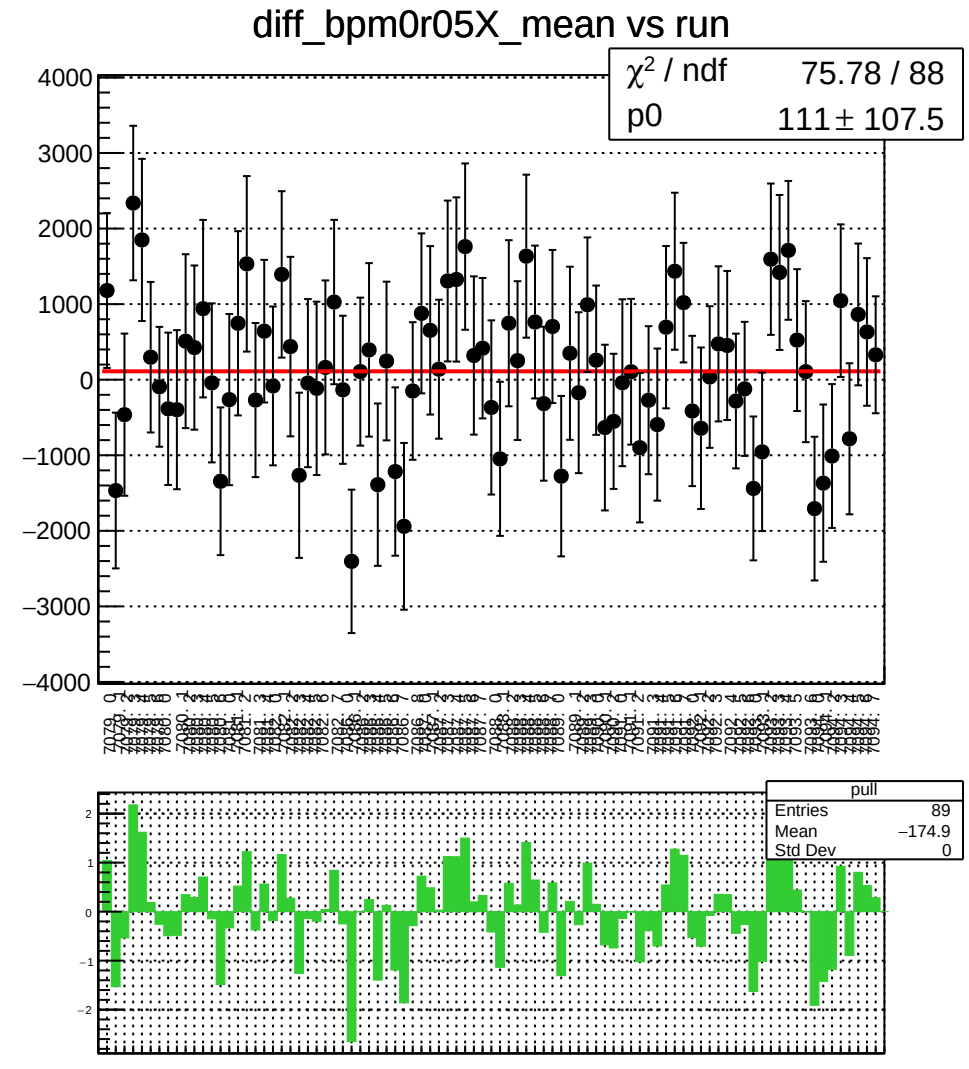

pull1D
Entries 89
Mean −0.004092
Std Dev 0.8971

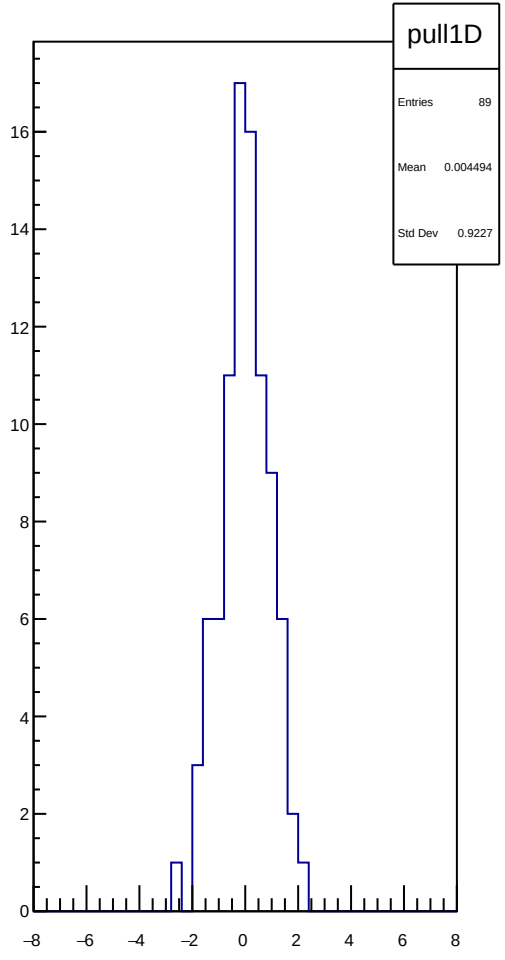

diff_bpm0r03X_rms vs run
χ² / ndf 6203 / 88
p0 8.148e+04 ± 62.86
95000
90000
85000
80000
75000
70000

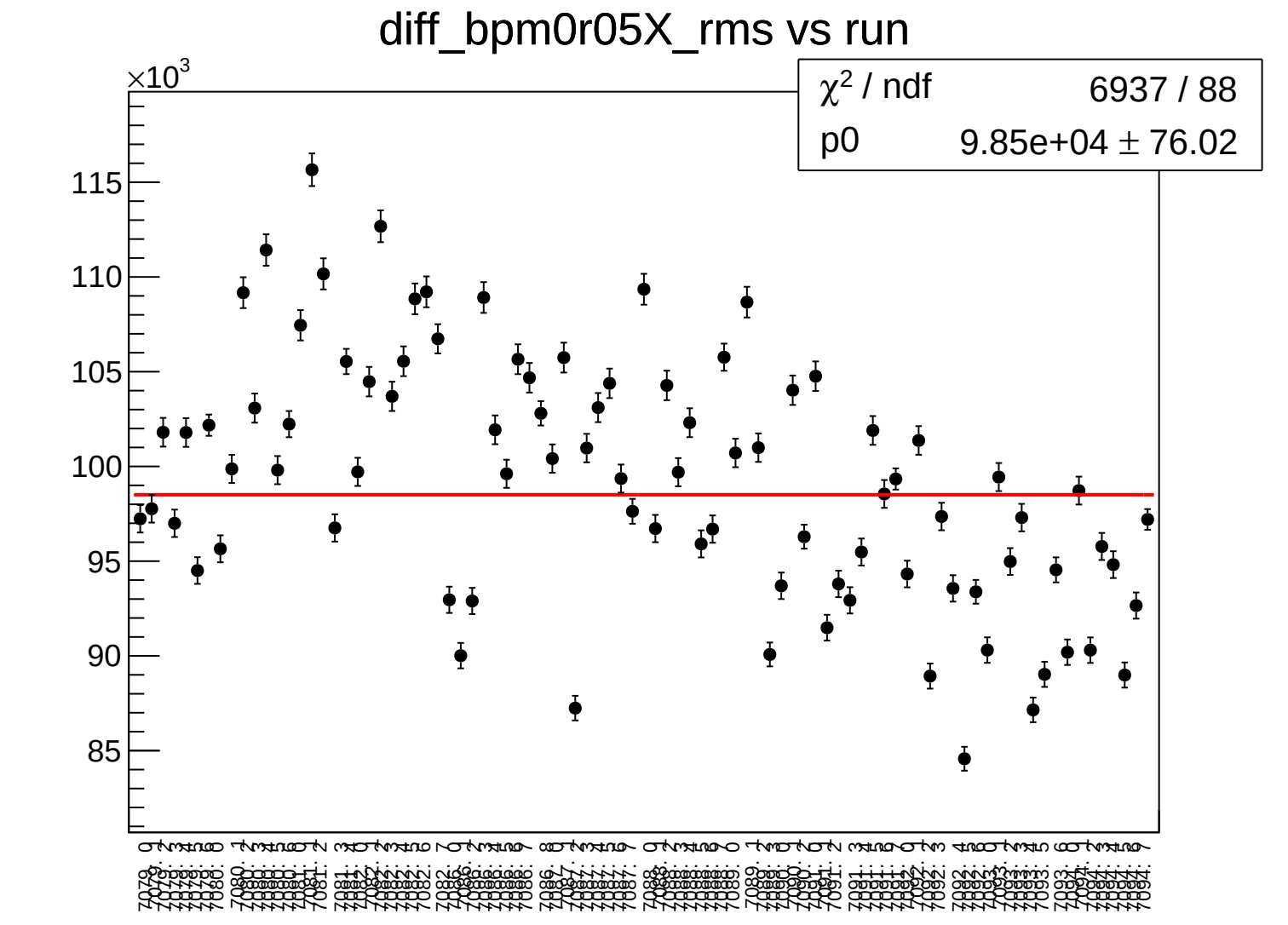

diff_bpm0r03Y_mean vs run
χ² / ndf 72.98 / 88
p0 −5.515 ± 2.132
pull
Entries 89
Mean 87.41
Std Dev 0

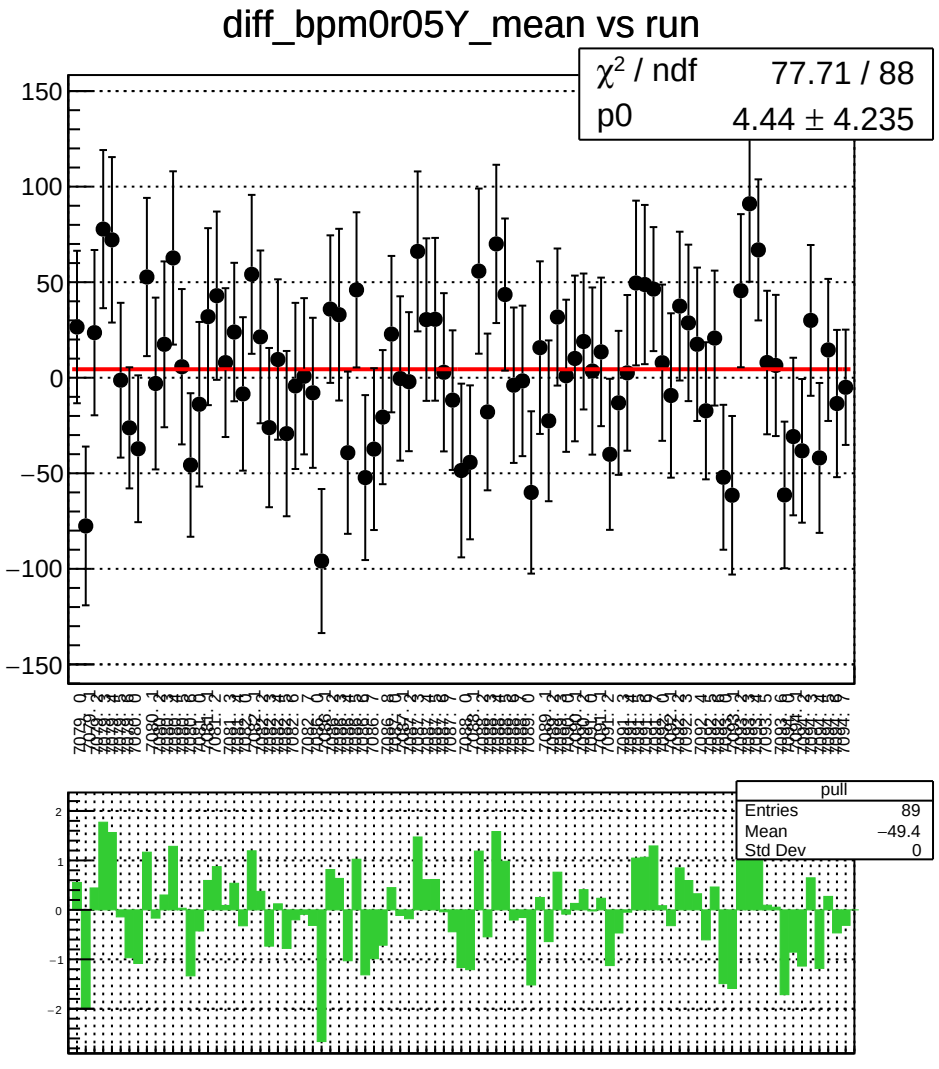

pull1D
Entries 89
Mean 0.01174
Std Dev 0.9054

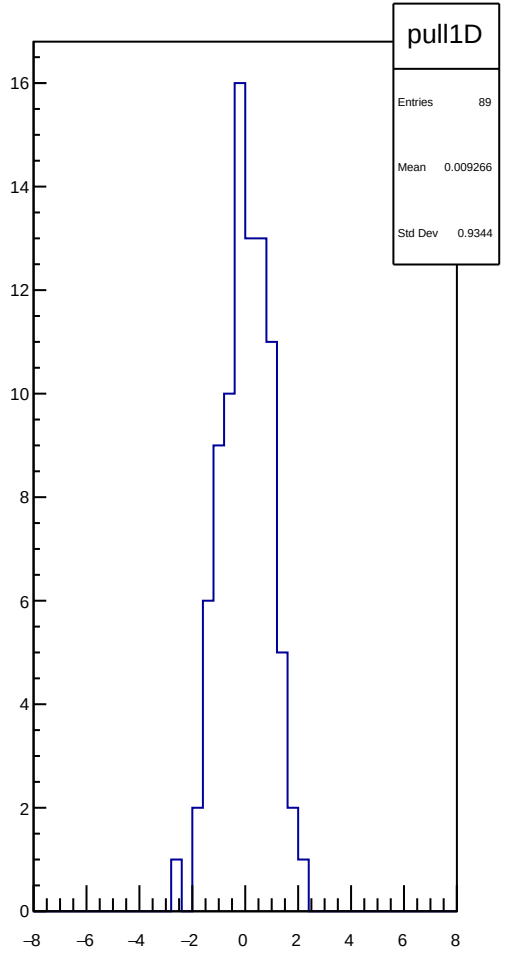

diff_bpm0r03Y_rms vs run
χ² / ndf 8424 / 88
p0 1952 ± 1.507
2300
2200
2100
2000
1900
1800
1700
1600

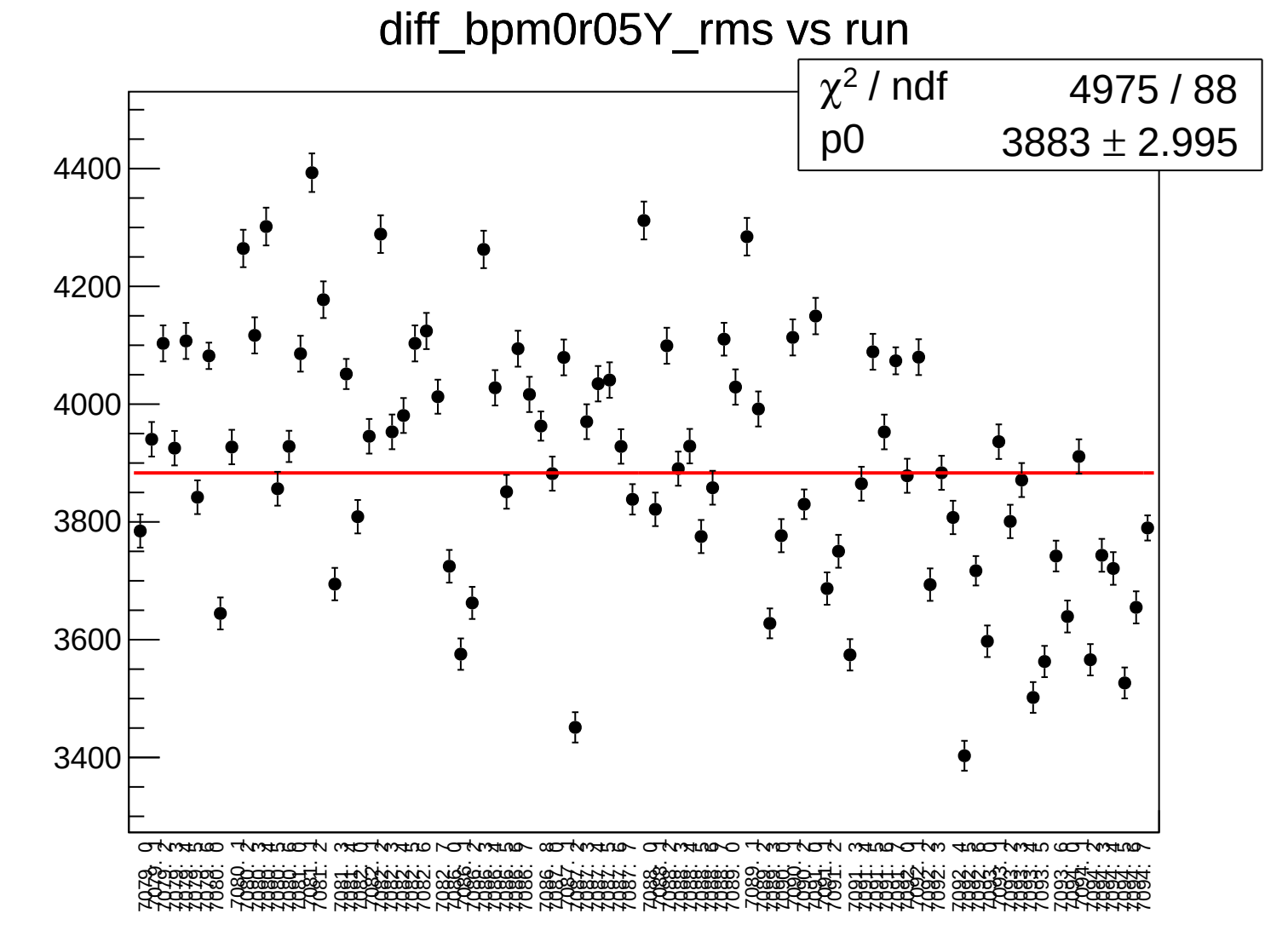

diff_bpm0r05X_mean vs run
χ² / ndf 75.78 / 88
p0 111 ± 107.5
pull
Entries 89
Mean −174.9
Std Dev 0

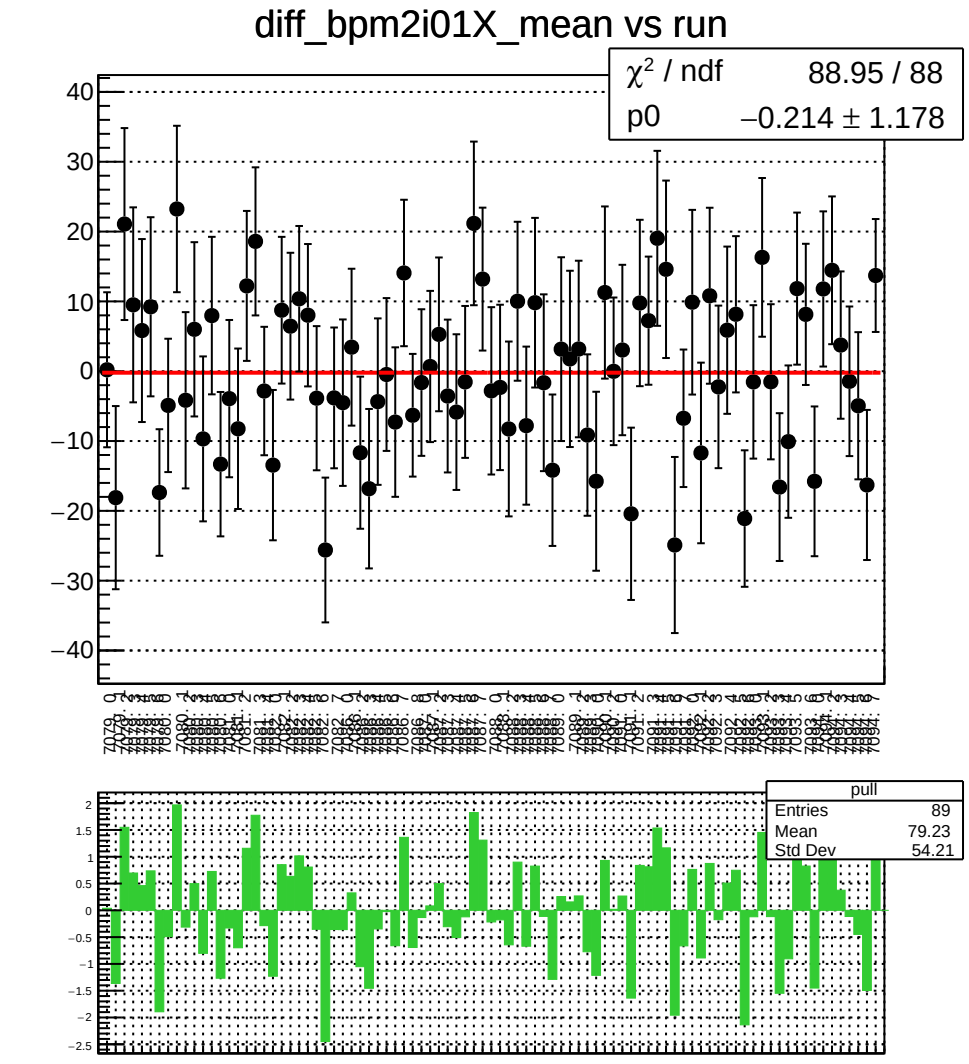

pull1D
Entries 89
Mean 0.004494
Std Dev 0.9227

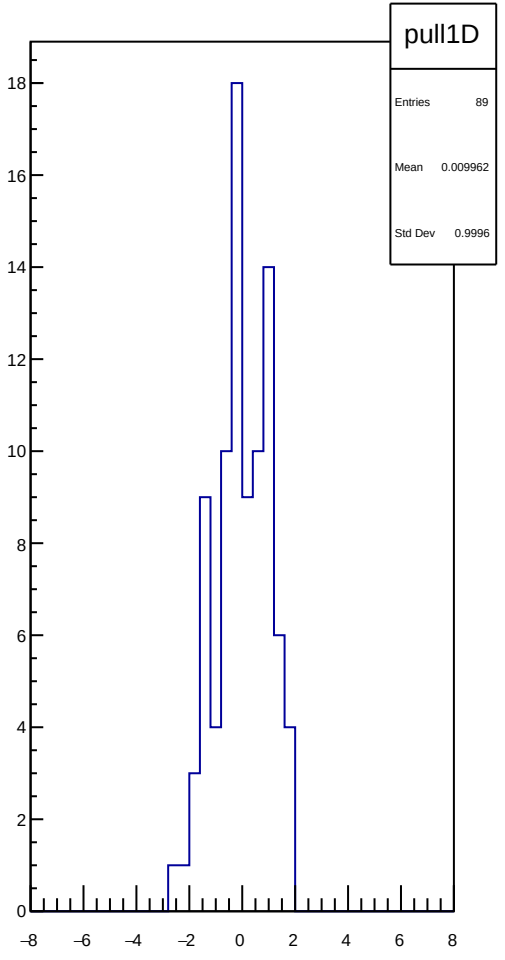

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 6937 / 88
p0 9.85e+04 ± 76.02
115
110
105
100
95
90
85

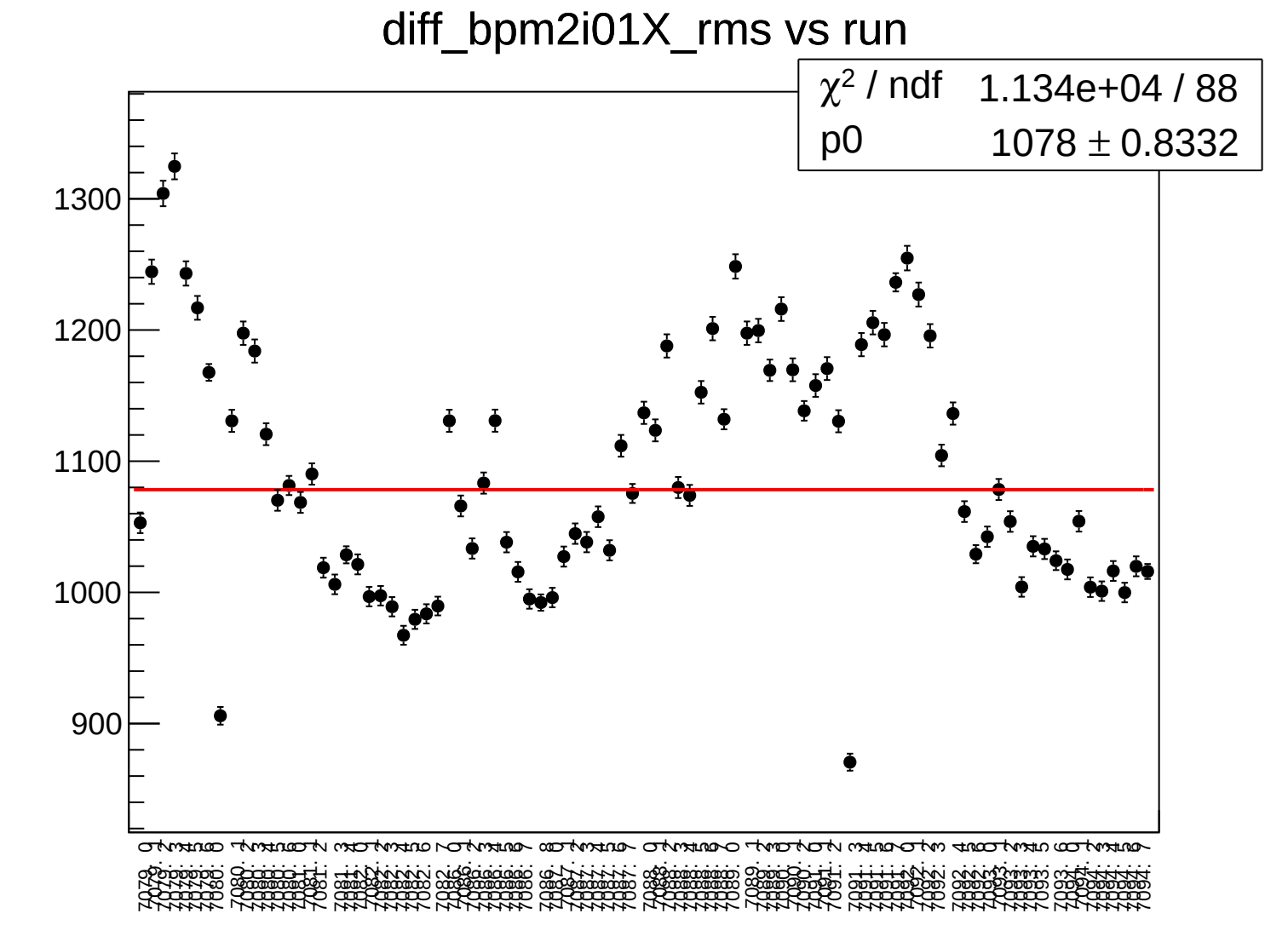

diff_bpm0r05Y_mean vs run
χ² / ndf 77.71 / 88
p0 4.44 ± 4.235
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −49.4
Std Dev 0
2
1
0
−1
−2

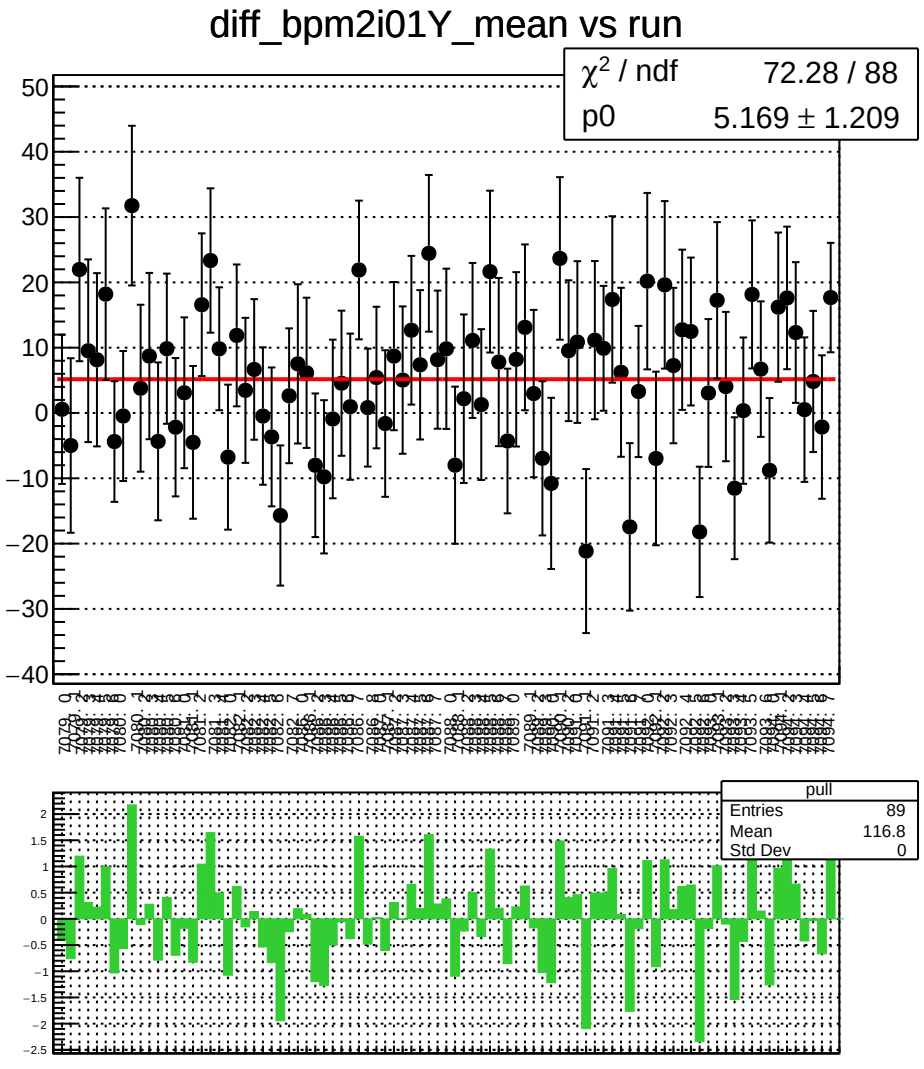

pull1D
Entries 89
Mean 0.009266
Std Dev 0.9344
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

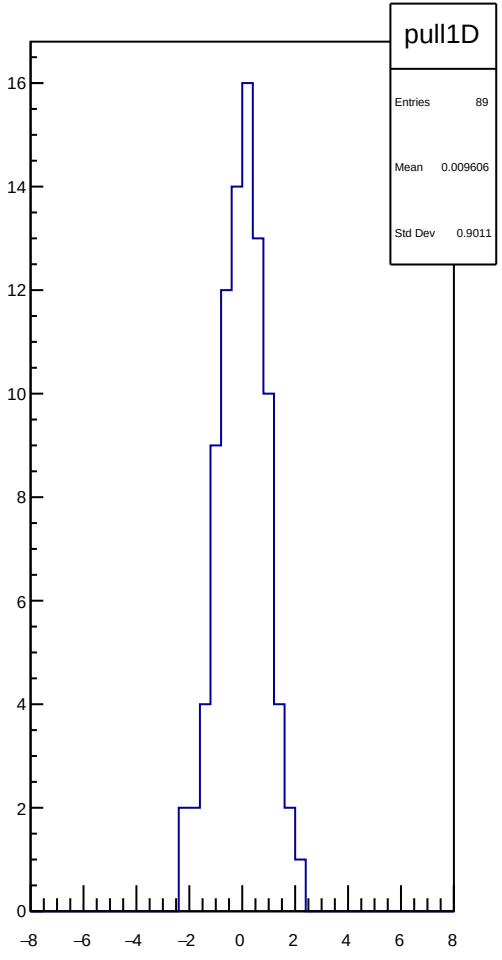

diff_bpm0r05Y_rms vs run
χ² / ndf 4975 / 88
p0 3883 ± 2.995
4400
4200
4000
3800
3600
3400

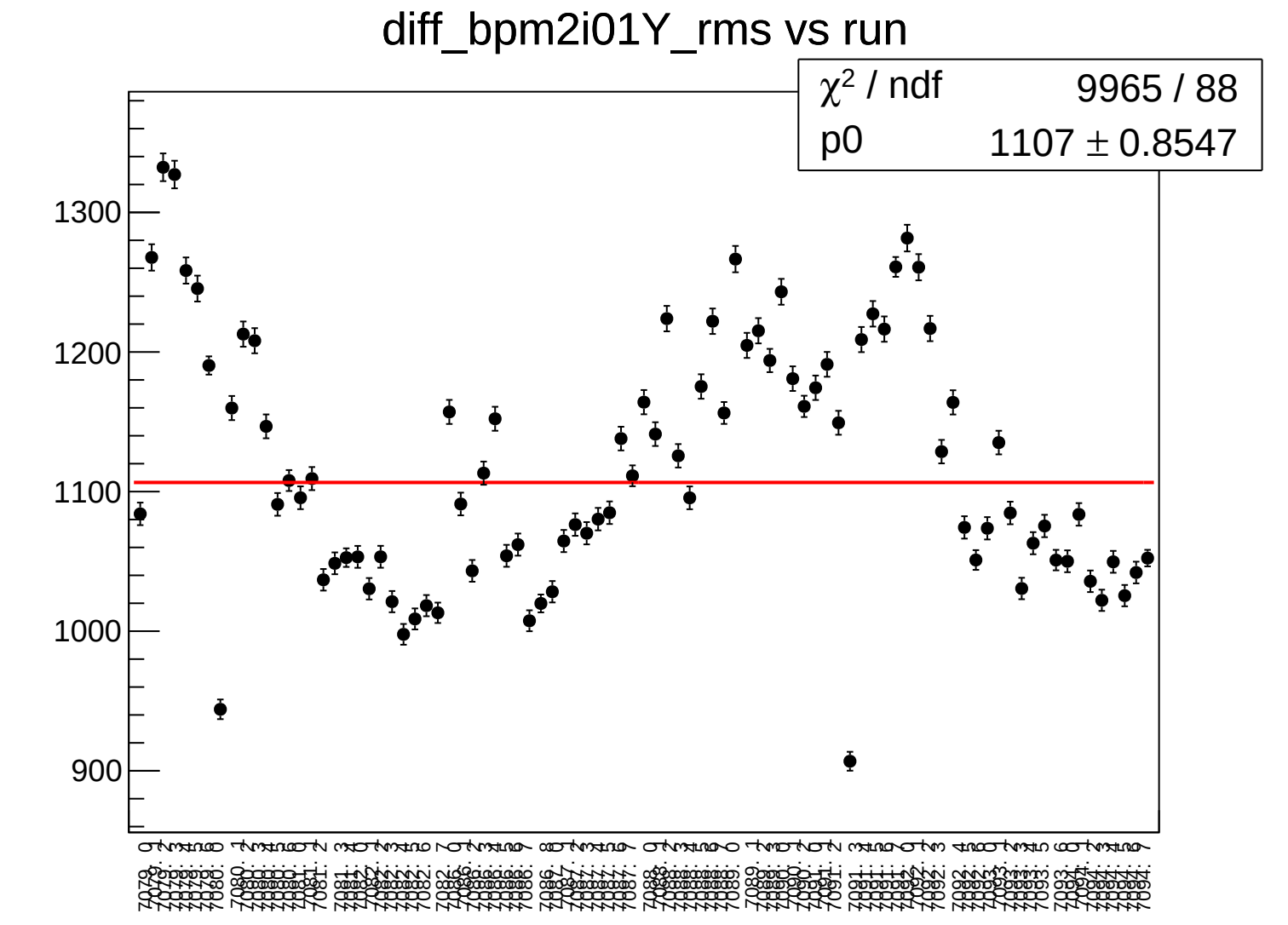

diff_bpm2i01X_mean vs run
χ² / ndf 88.95 / 88
p0 −0.214 ± 1.178
pull
Entries 89
Mean 79.23
Std Dev 54.21

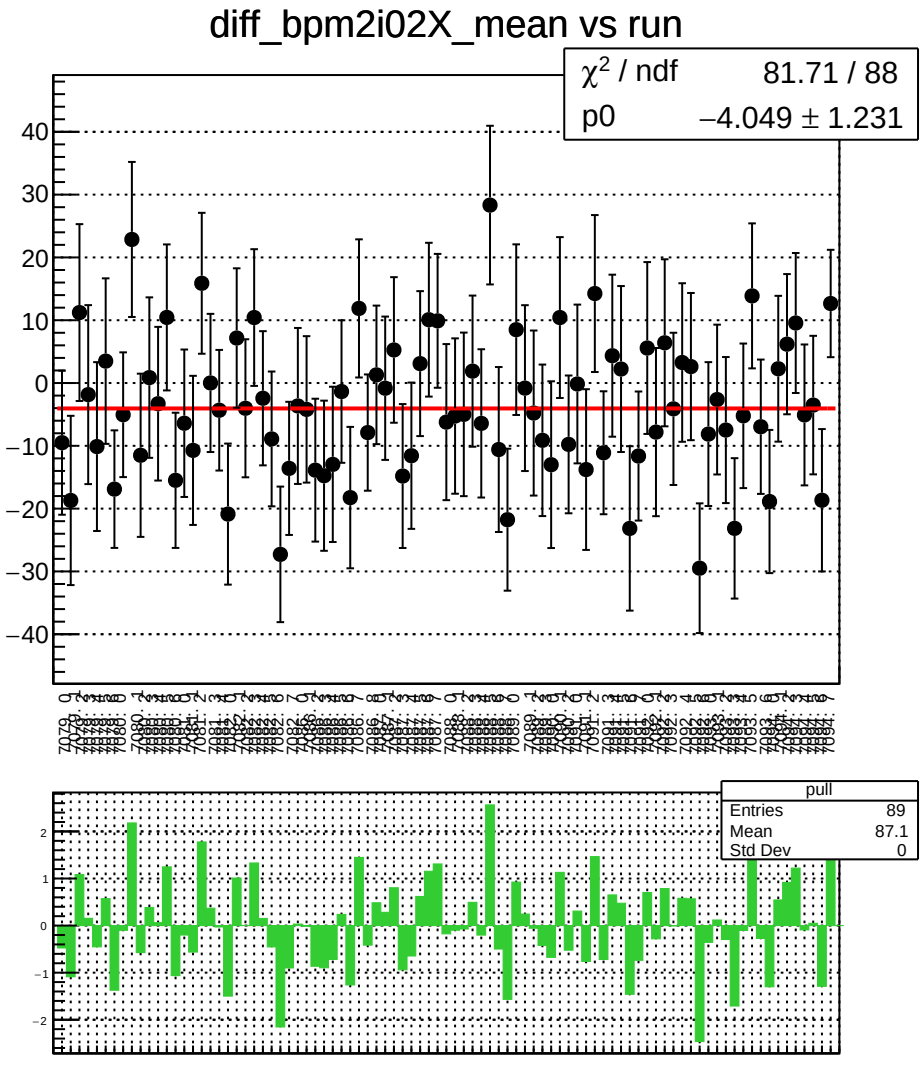

pull1D
Entries 89
Mean 0.009962
Std Dev 0.9996

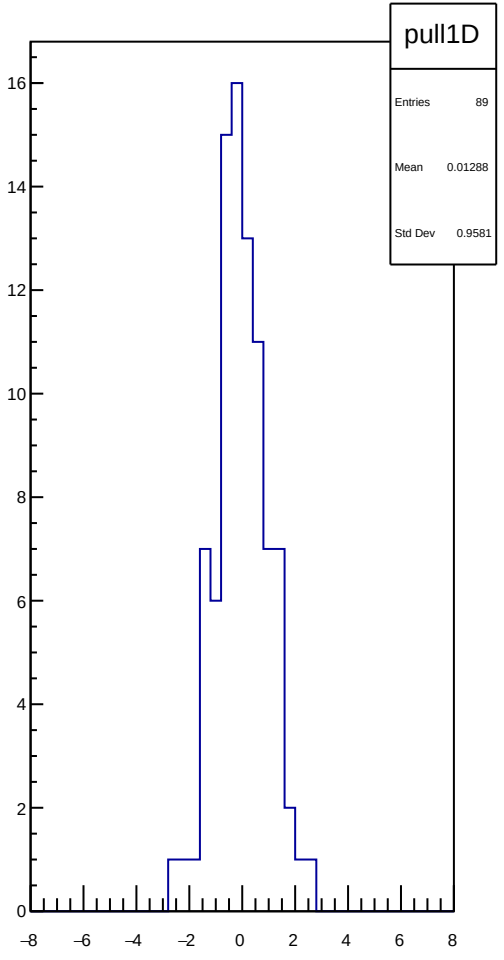

diff_bpm2i01X_rms vs run
χ² / ndf 1.134e+04 / 88
p0 1078 ± 0.8332
1300
1200
1100
1000
900

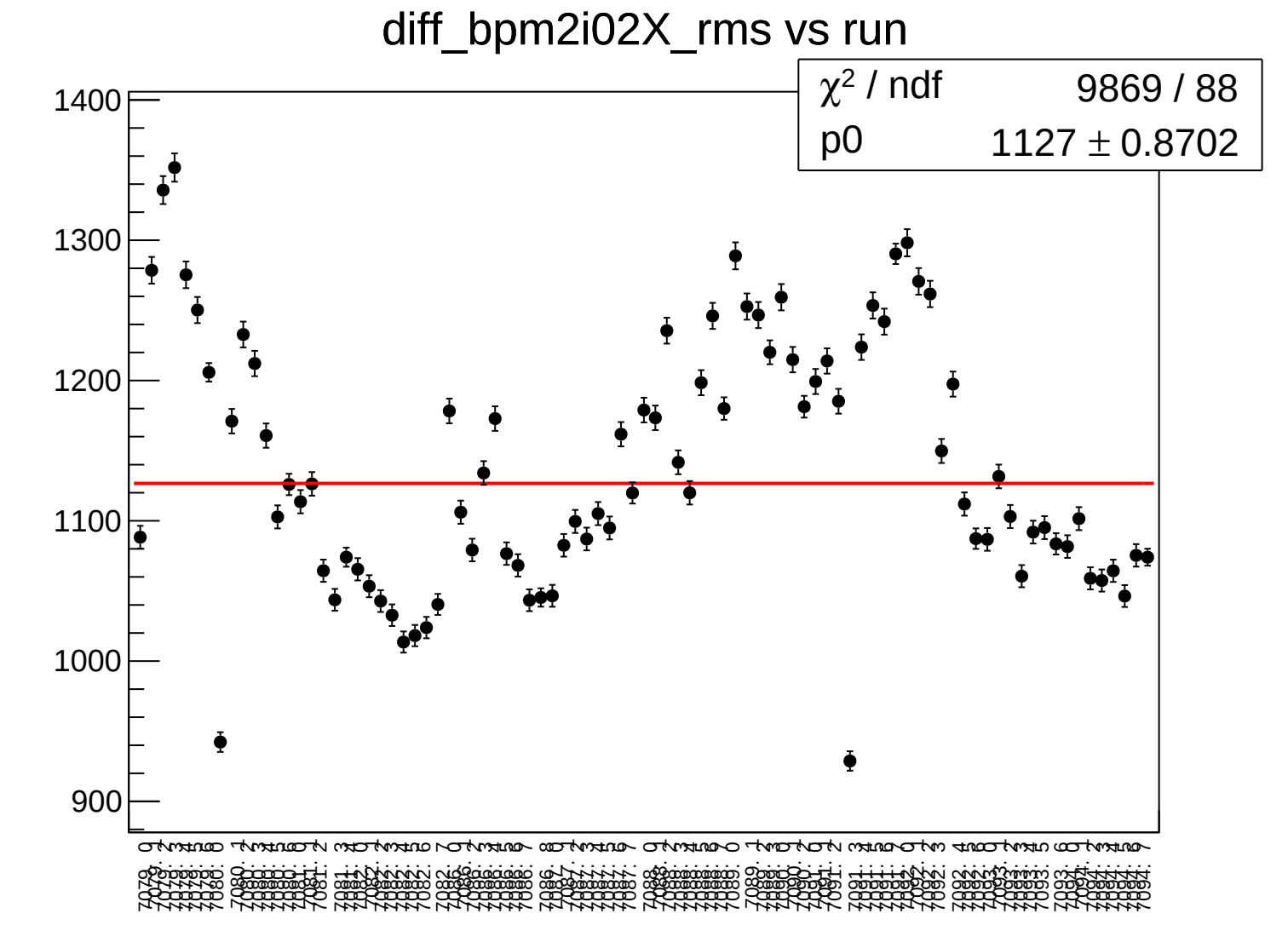

diff_bpm2i01Y_mean vs run
χ² / ndf 72.28 / 88
p0 5.169 ± 1.209
pull
Entries 89
Mean 116.8
Std Dev 0

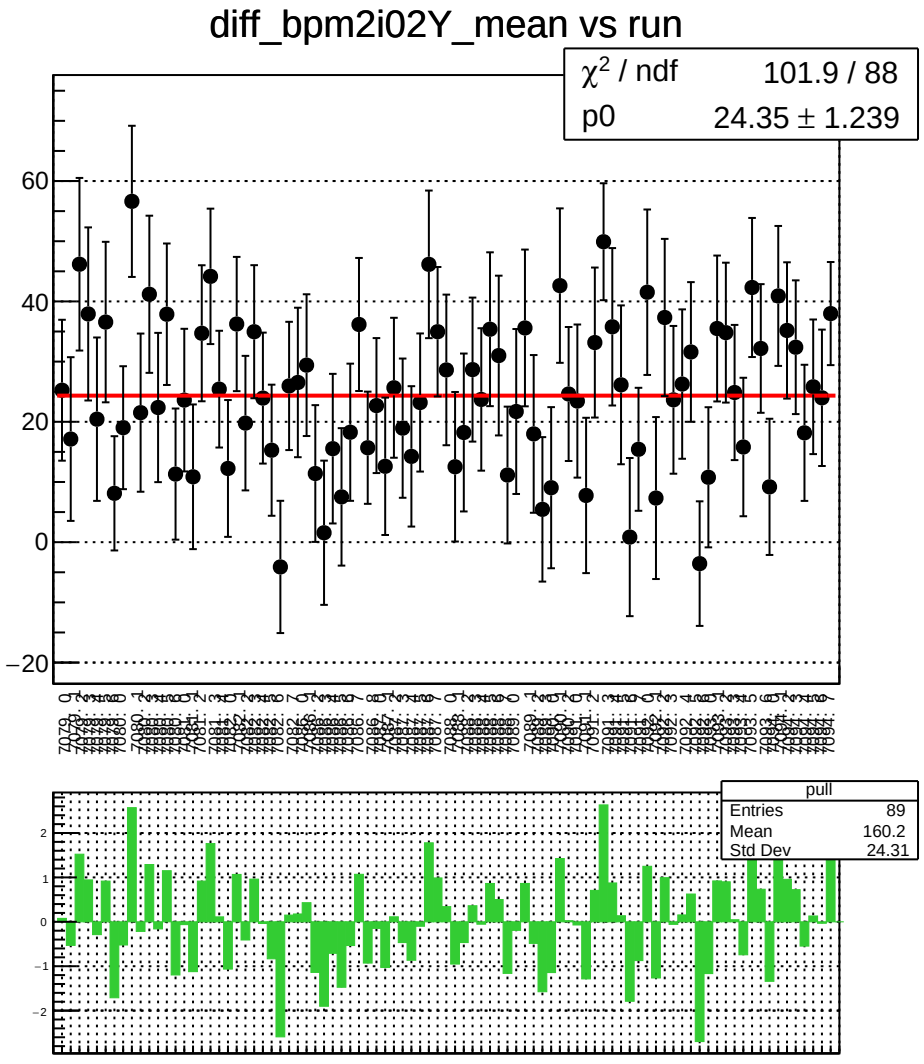

pull1D
Entries 89
Mean 0.009606
Std Dev 0.9011

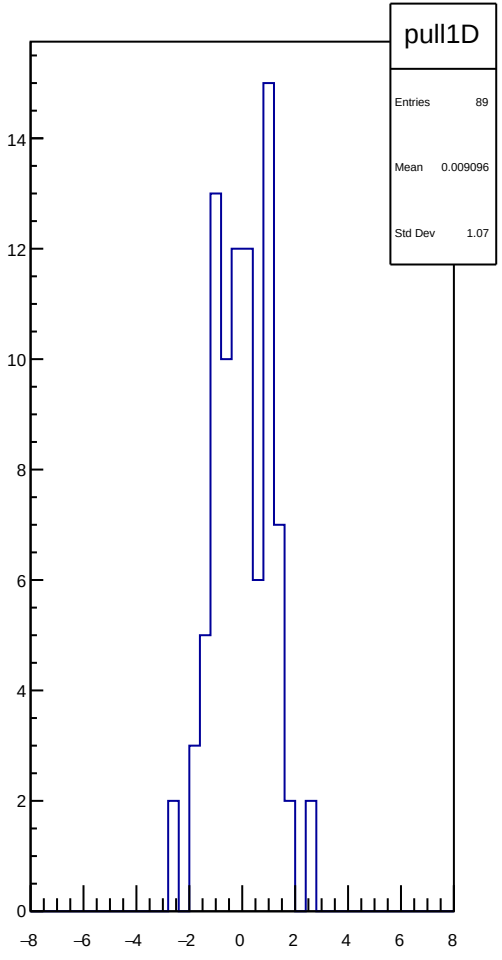

diff_bpm2i01Y_rms vs run
χ² / ndf 9965 / 88
p0 1107 ± 0.8547
1300
1200
1100
1000
900

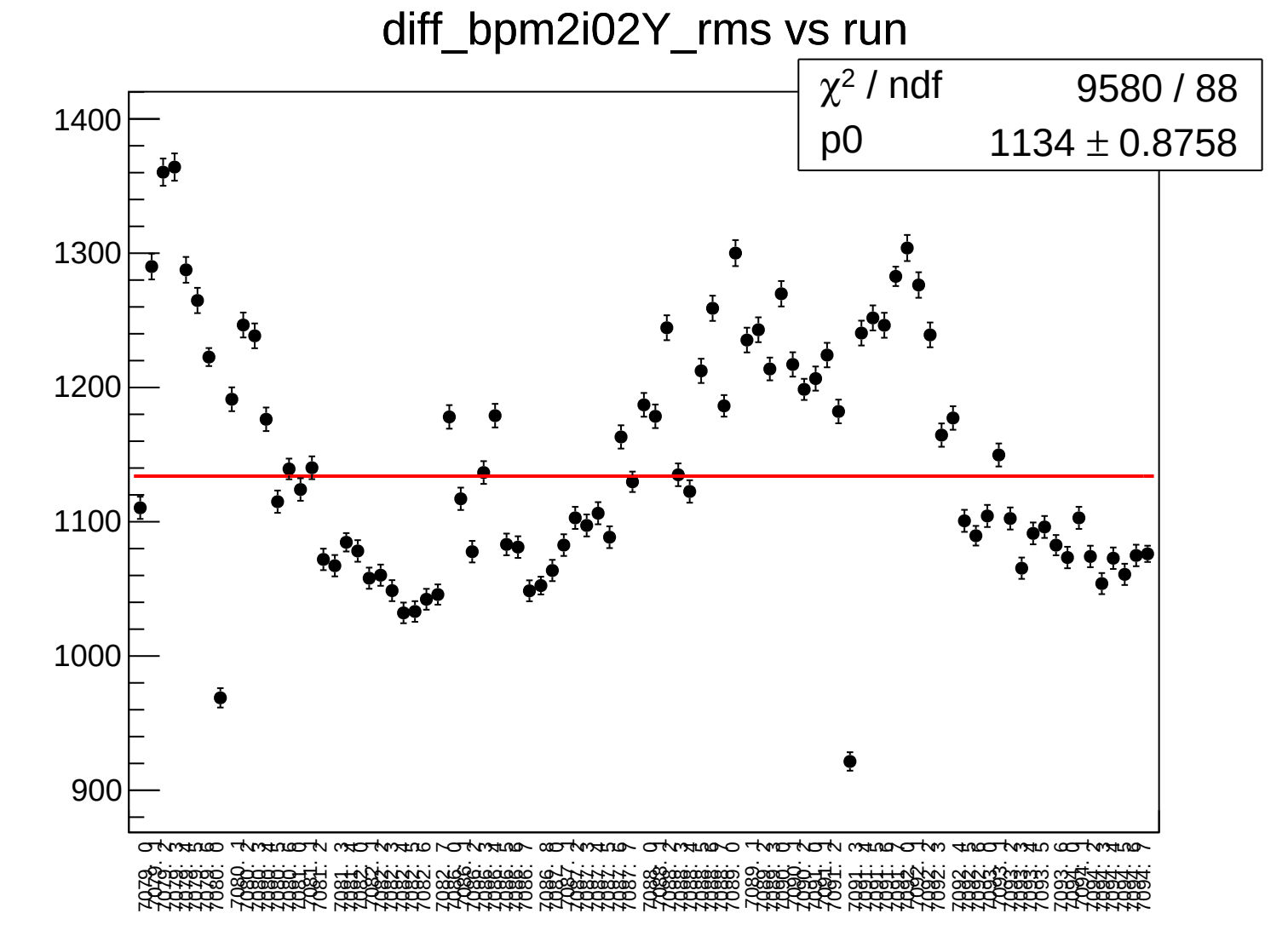

diff_bpm2i02X_mean vs run
χ² / ndf 81.71 / 88
p0 −4.049 ± 1.231
pull
Entries 89
Mean 87.1
Std Dev 0

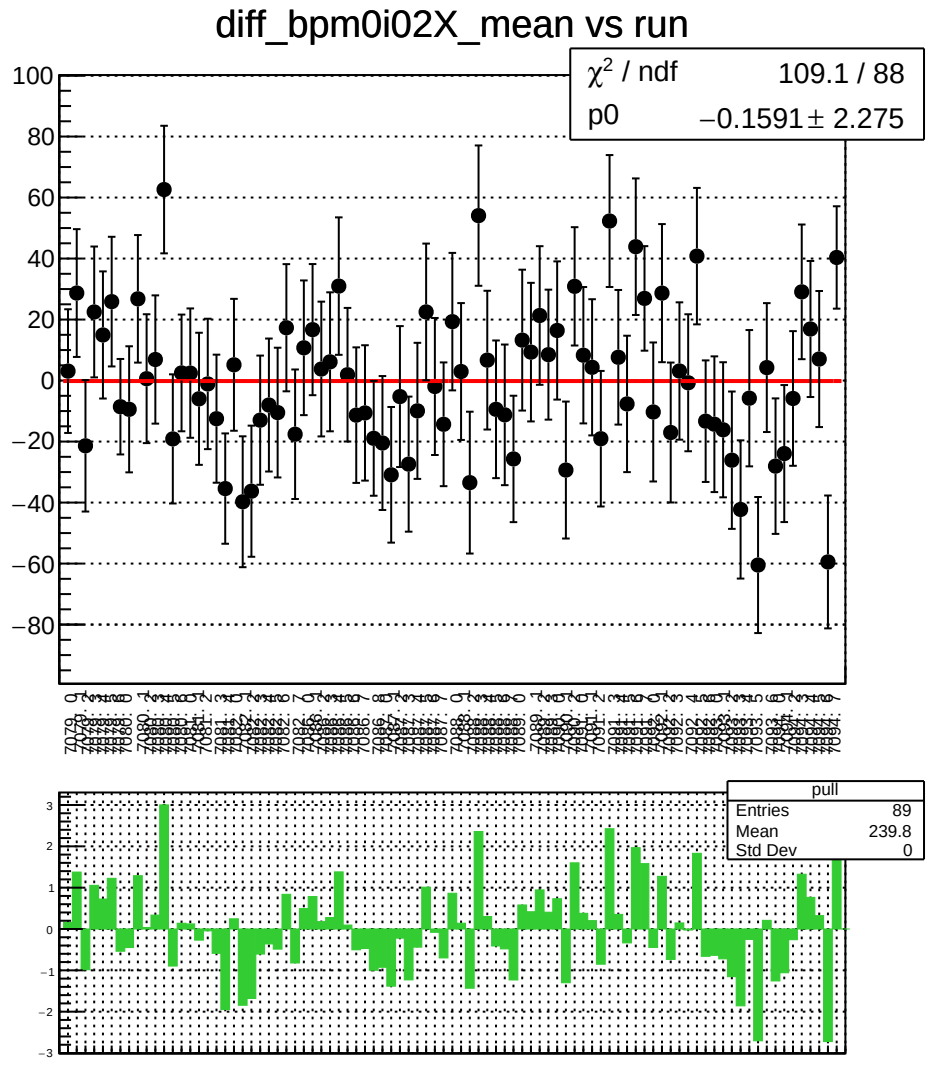

pull1D
Entries 89
Mean 0.01288
Std Dev 0.9581

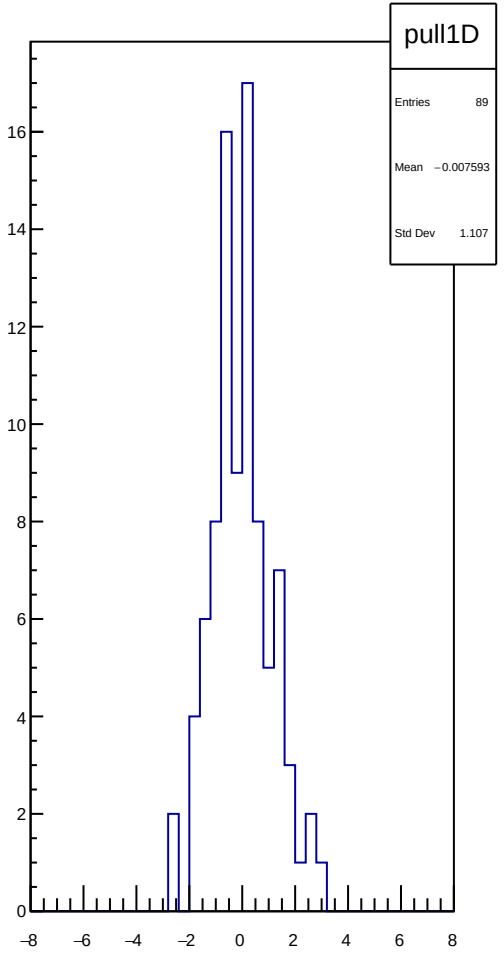

diff_bpm2i02X_rms vs run
χ² / ndf 9869 / 88
p0 1127 ± 0.8702
1400
1300
1200
1100
1000
900

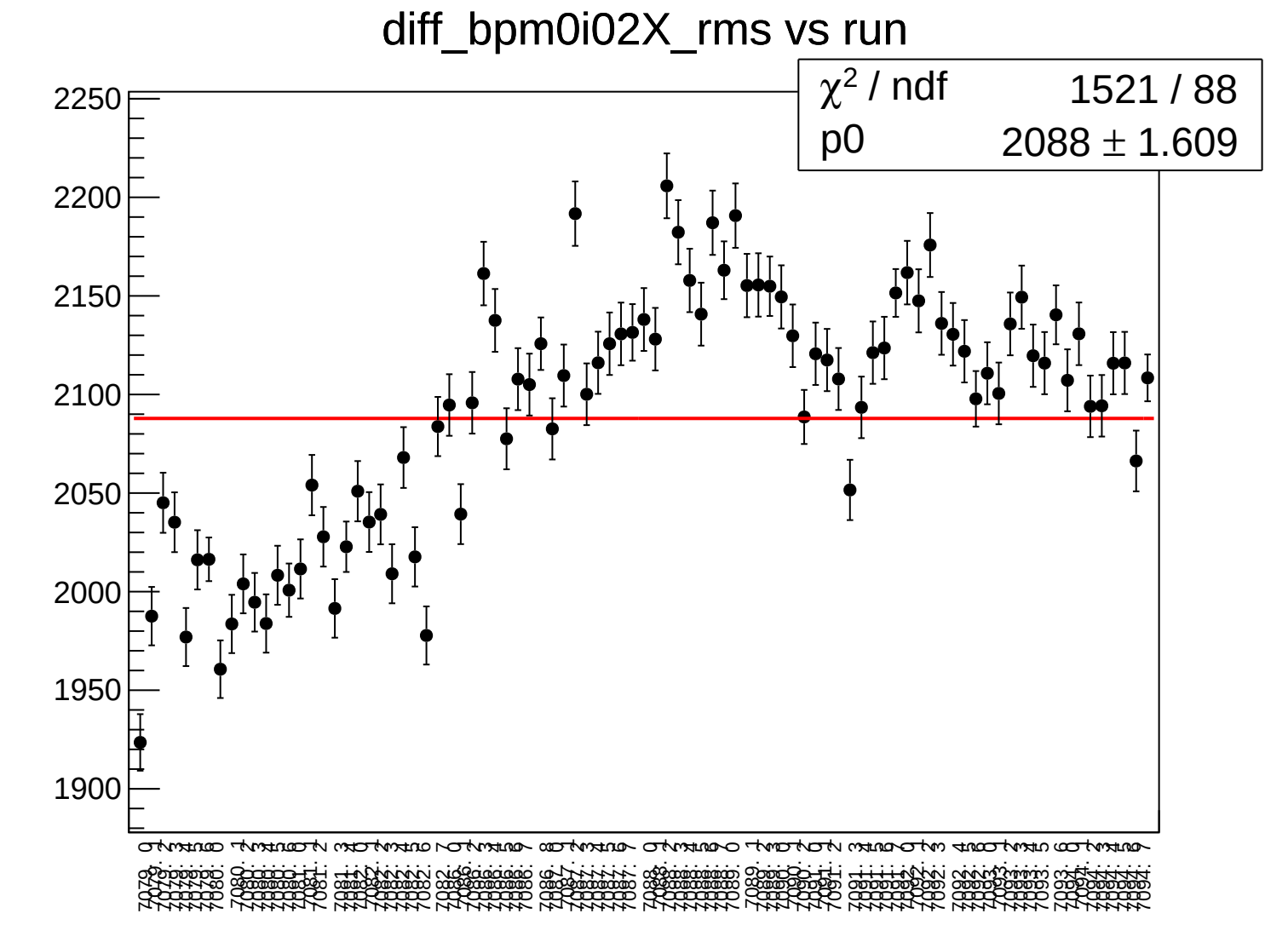

diff_bpm2i02Y_mean vs run
χ^2 / ndf 101.9 / 88
p0 24.35 ± 1.239
pull
Entries 89
Mean 160.2
Std Dev 24.31

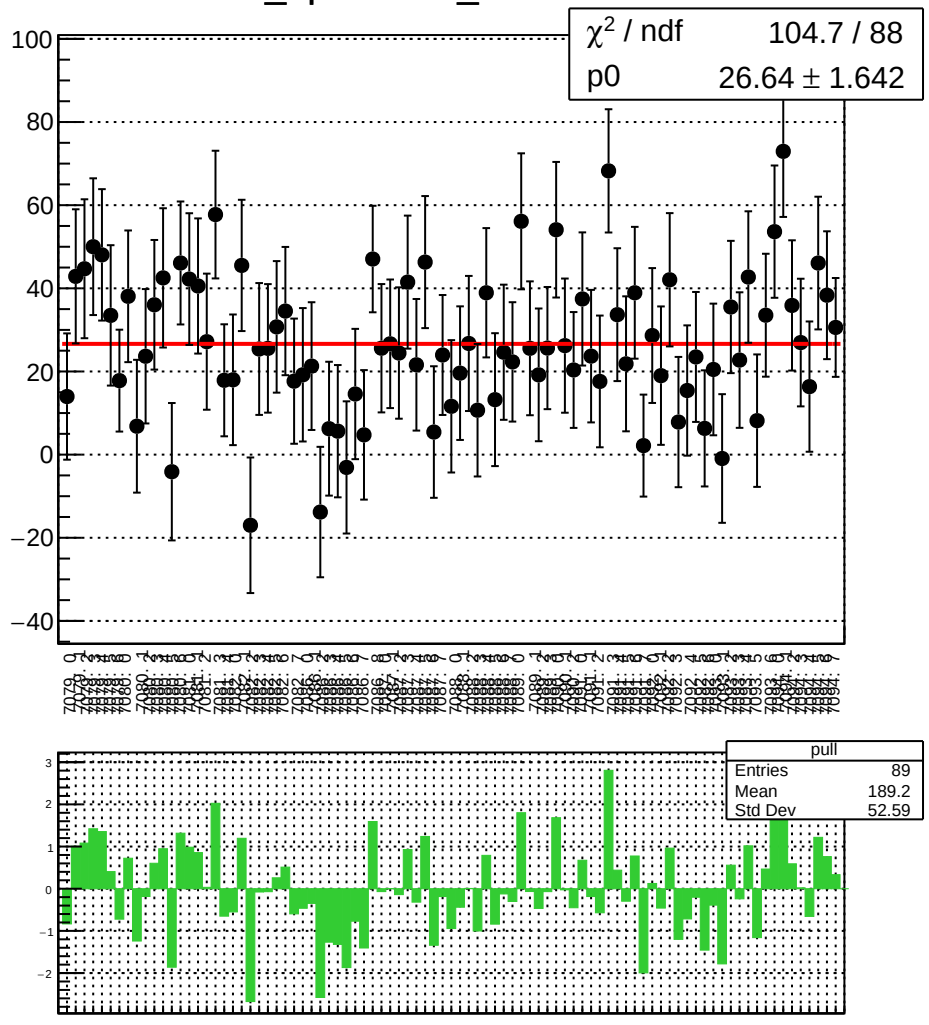

pull1D
Entries 89
Mean 0.009096
Std Dev 1.07

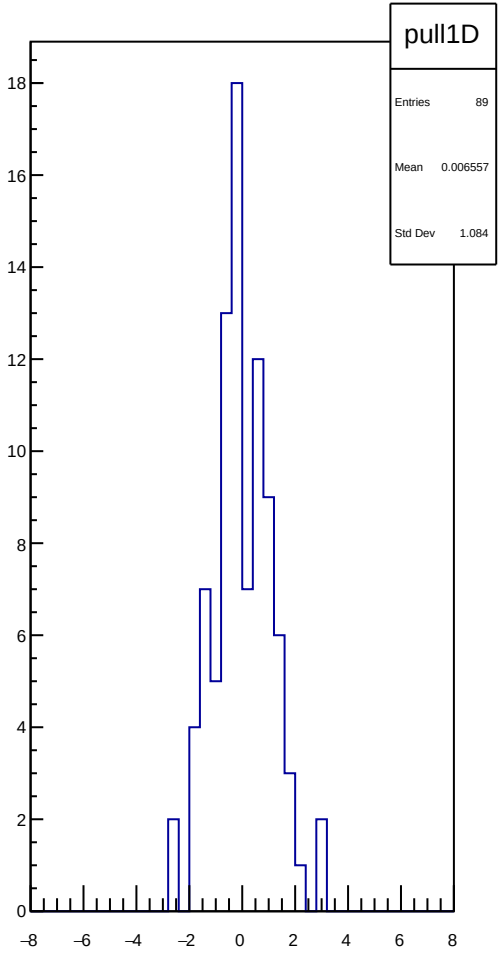

diff_bpm2i02Y_rms vs run
χ² / ndf 9580 / 88
p0 1134 ± 0.8758
1400
1300
1200
1100
1000
900

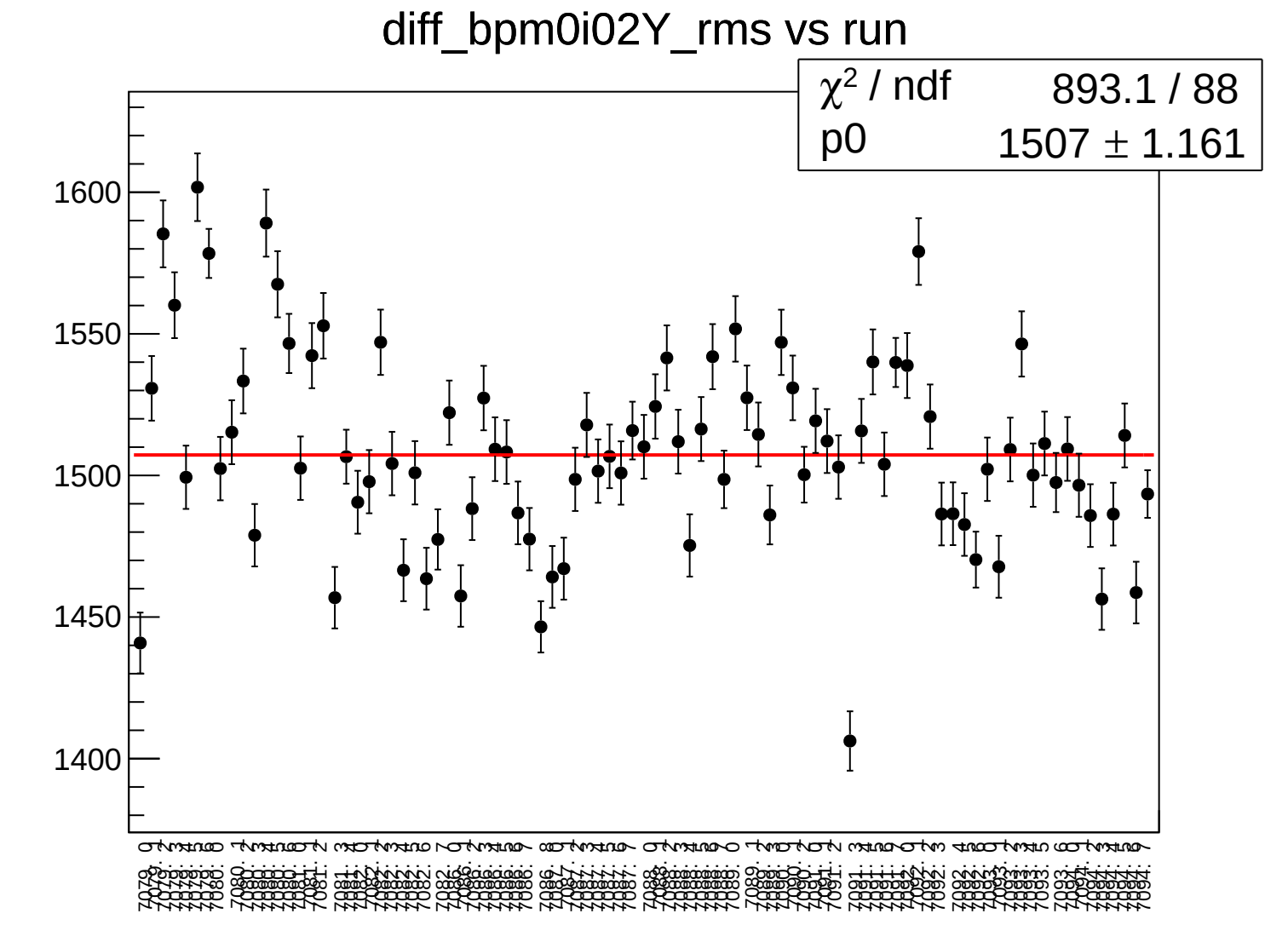

diff_bpm0i02X_mean vs run
χ^2 / ndf 109.1 / 88
p0 −0.1591 ± 2.275
pull
Entries 89
Mean 239.8
Std Dev 0

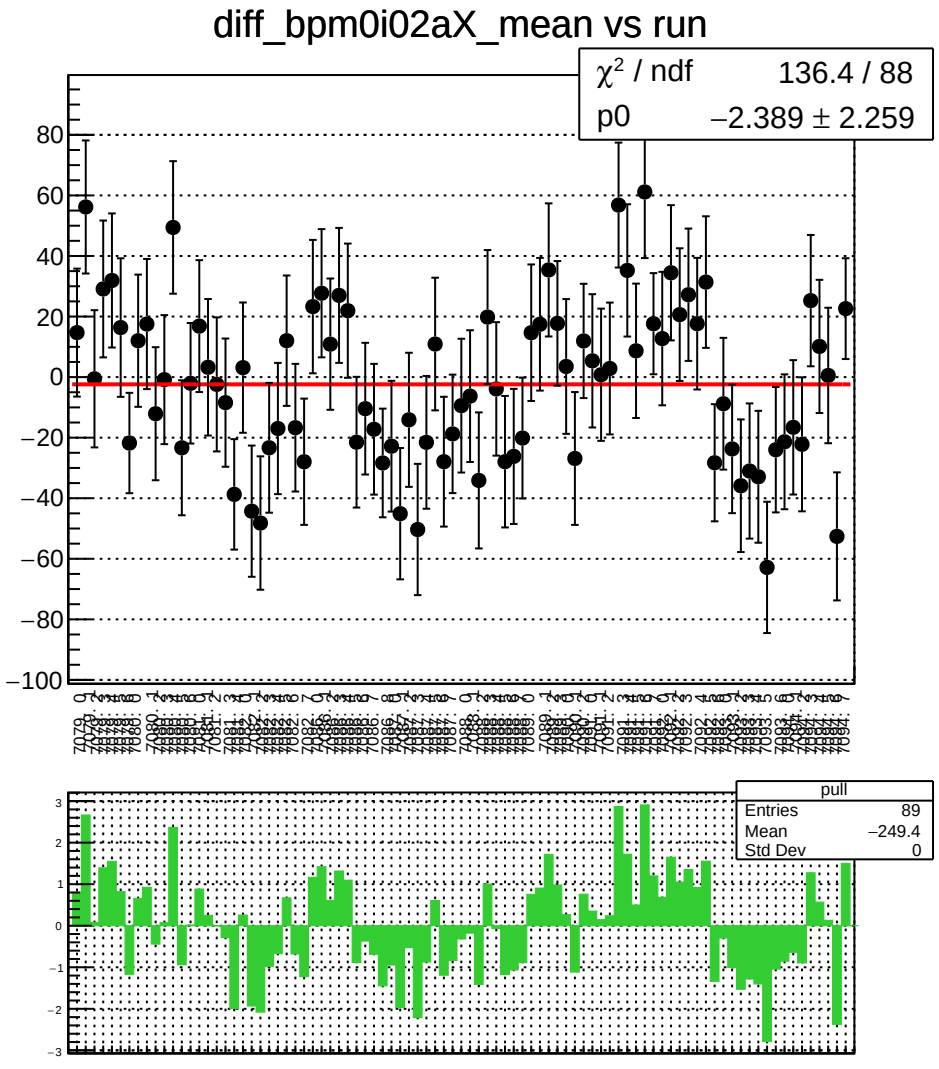

pull1D
Entries 89
Mean −0.007593
Std Dev 1.107

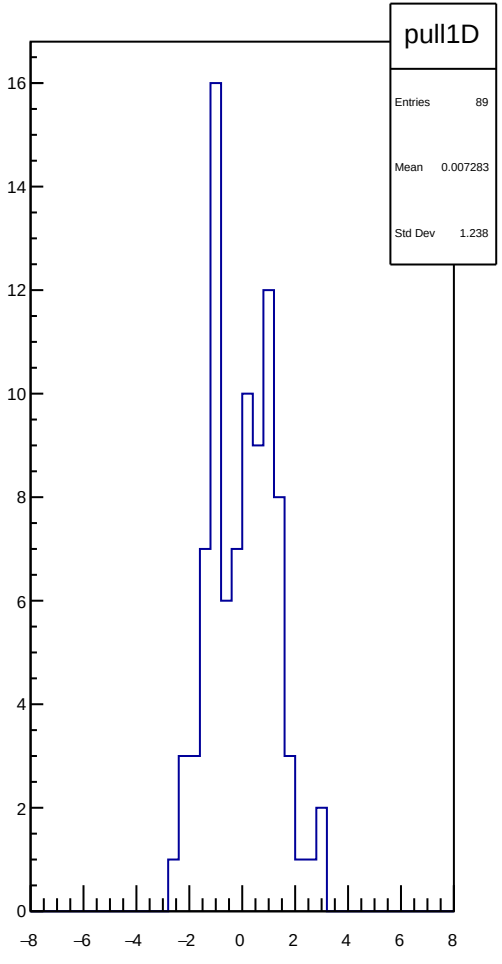

diff_bpm0i02X_rms vs run
χ² / ndf 1521 / 88
p0 2088 ± 1.609
2250
2200
2150
2100
2050
2000
1950
1900


diff_bpm0i02Y_mean vs run
χ^2 / ndf 104.7 / 88
p0 26.64 ± 1.642
pull
Entries 89
Mean 189.2
Std Dev 52.59

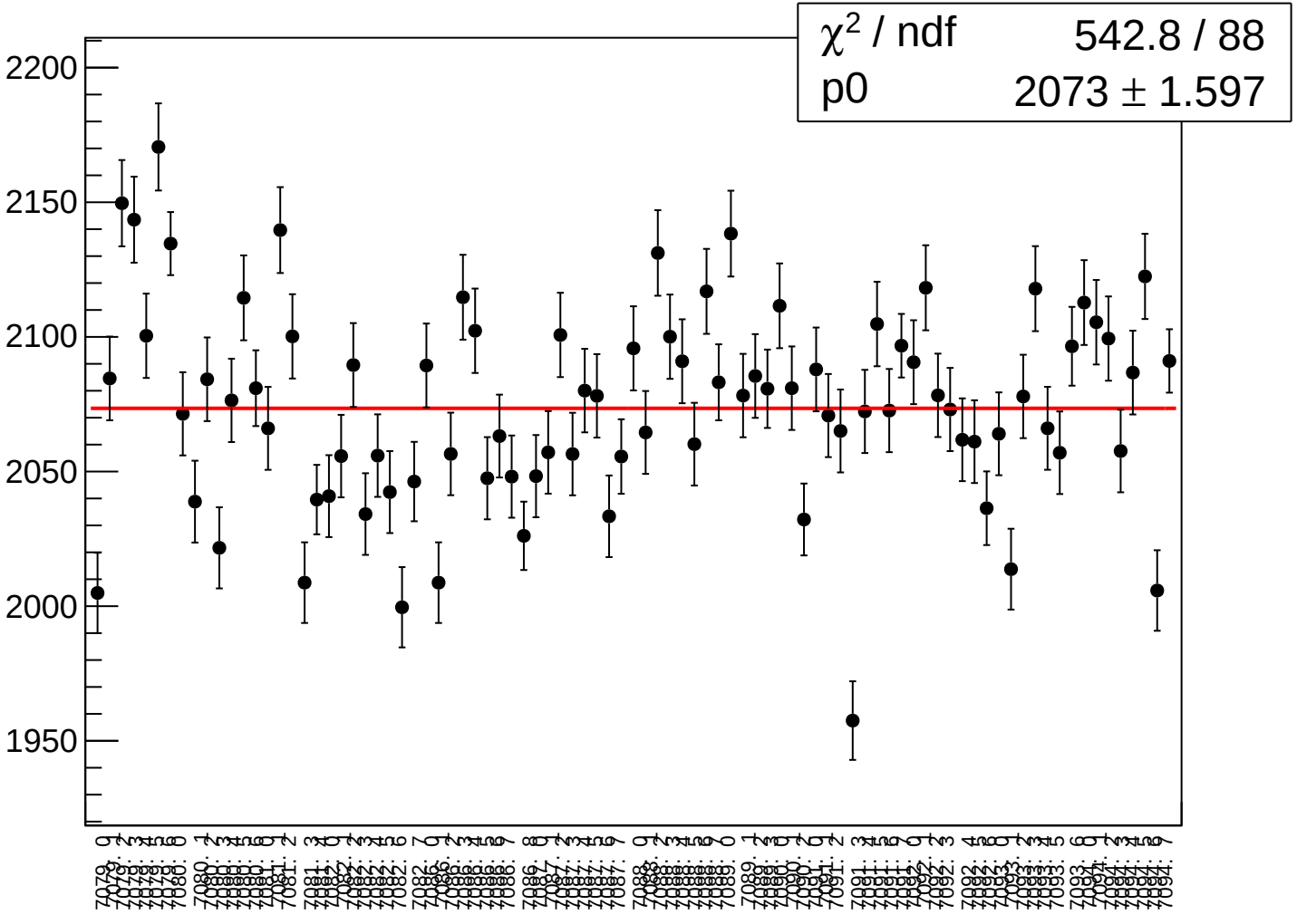

pull1D
Entries 89
Mean 0.006557
Std Dev 1.084

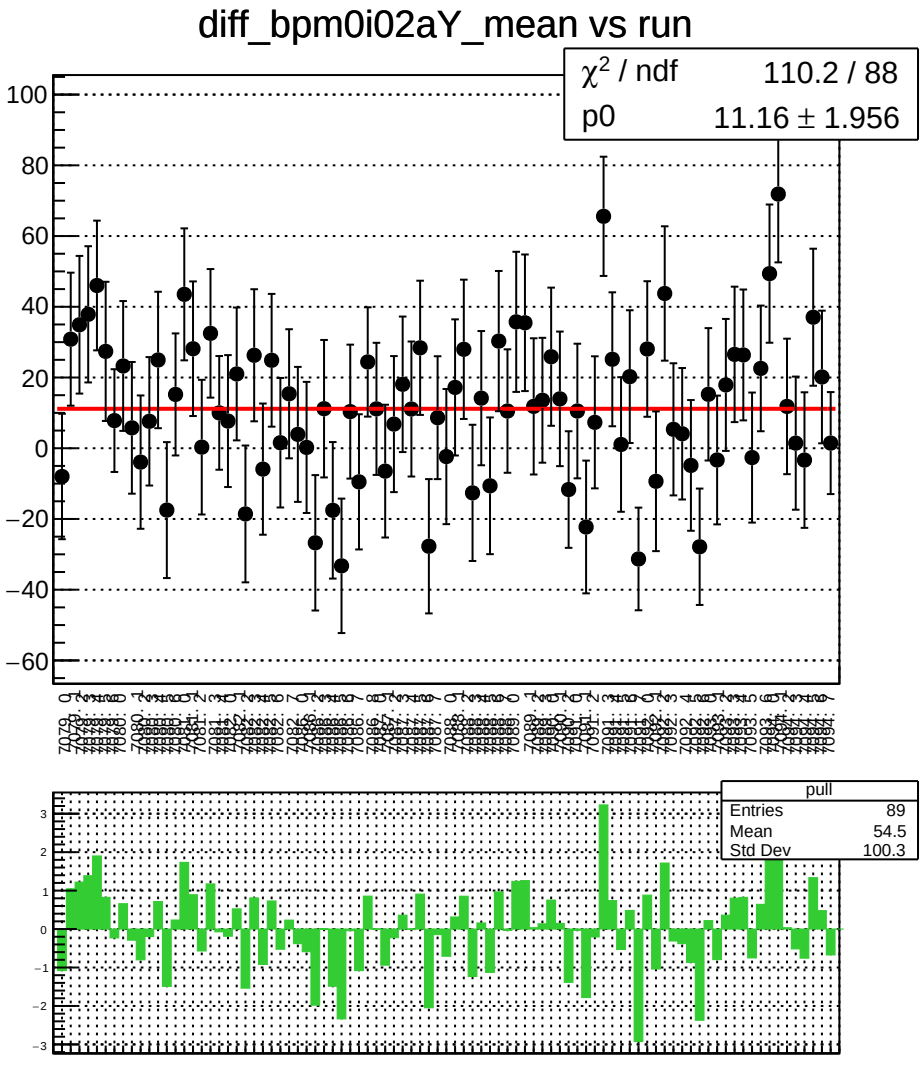

diff_bpm0i02Y_rms vs run
χ² / ndf 893.1 / 88
p0 1507 ± 1.161
1600
1550
1500
1450
1400

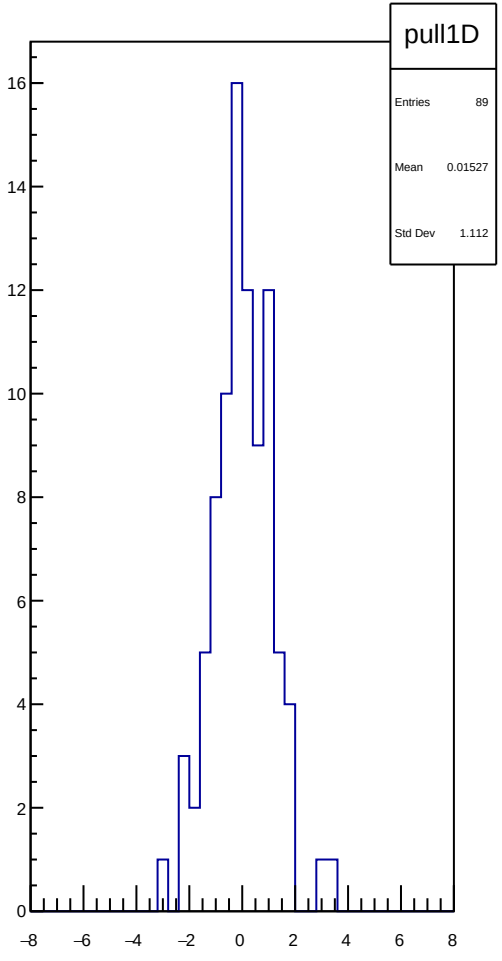

diff_bpm0i02aX_mean vs run
χ² / ndf 136.4 / 88
p0 −2.389 ± 2.259
pull
Entries 89
Mean −249.4
Std Dev 0

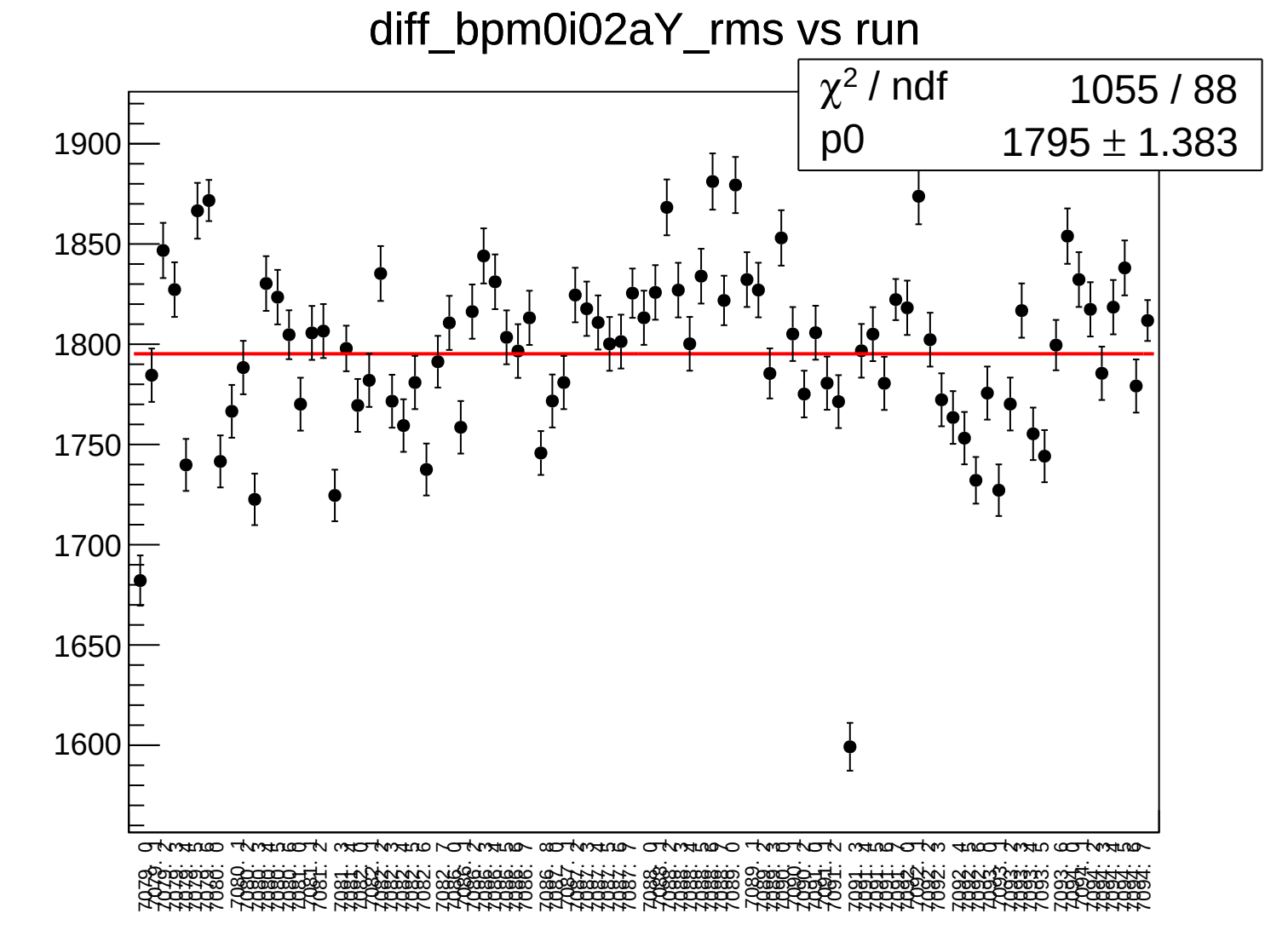

pull1D
Entries 89
Mean 0.007283
Std Dev 1.238

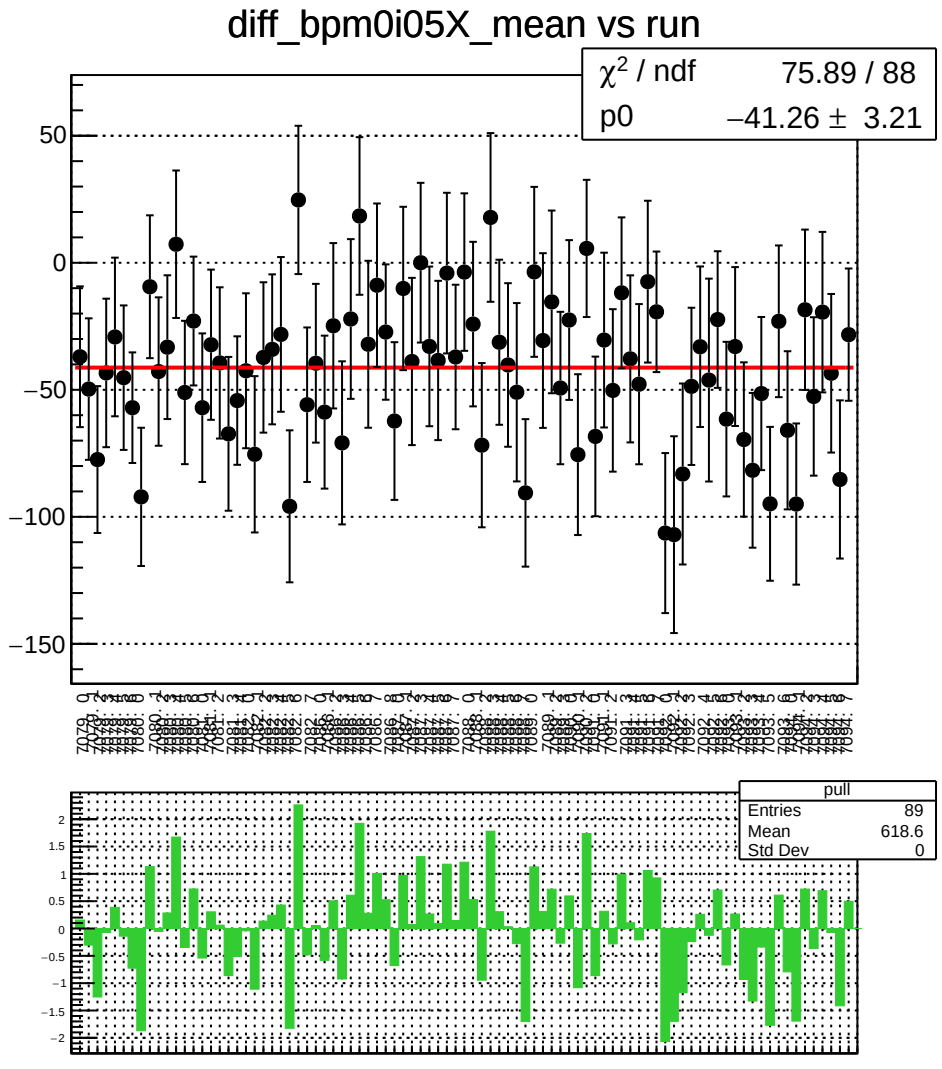
diff_bpm0i02aX_rms vs run

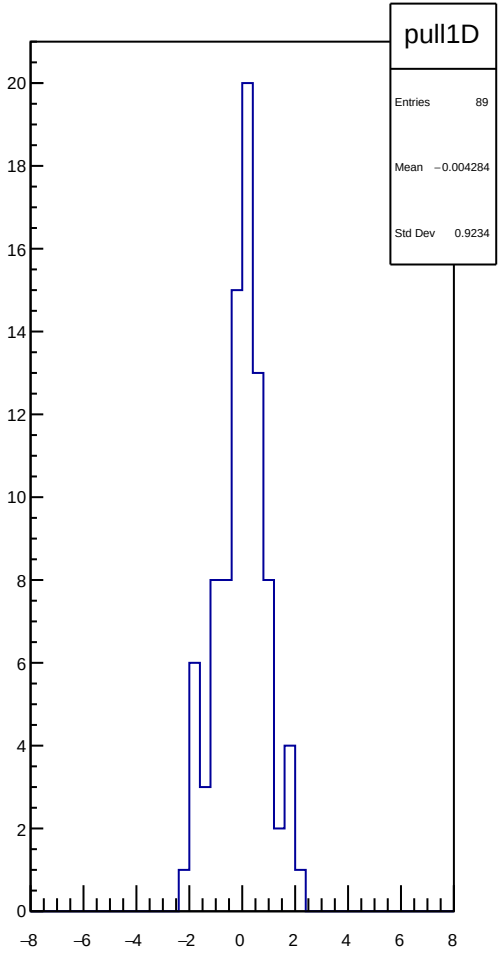


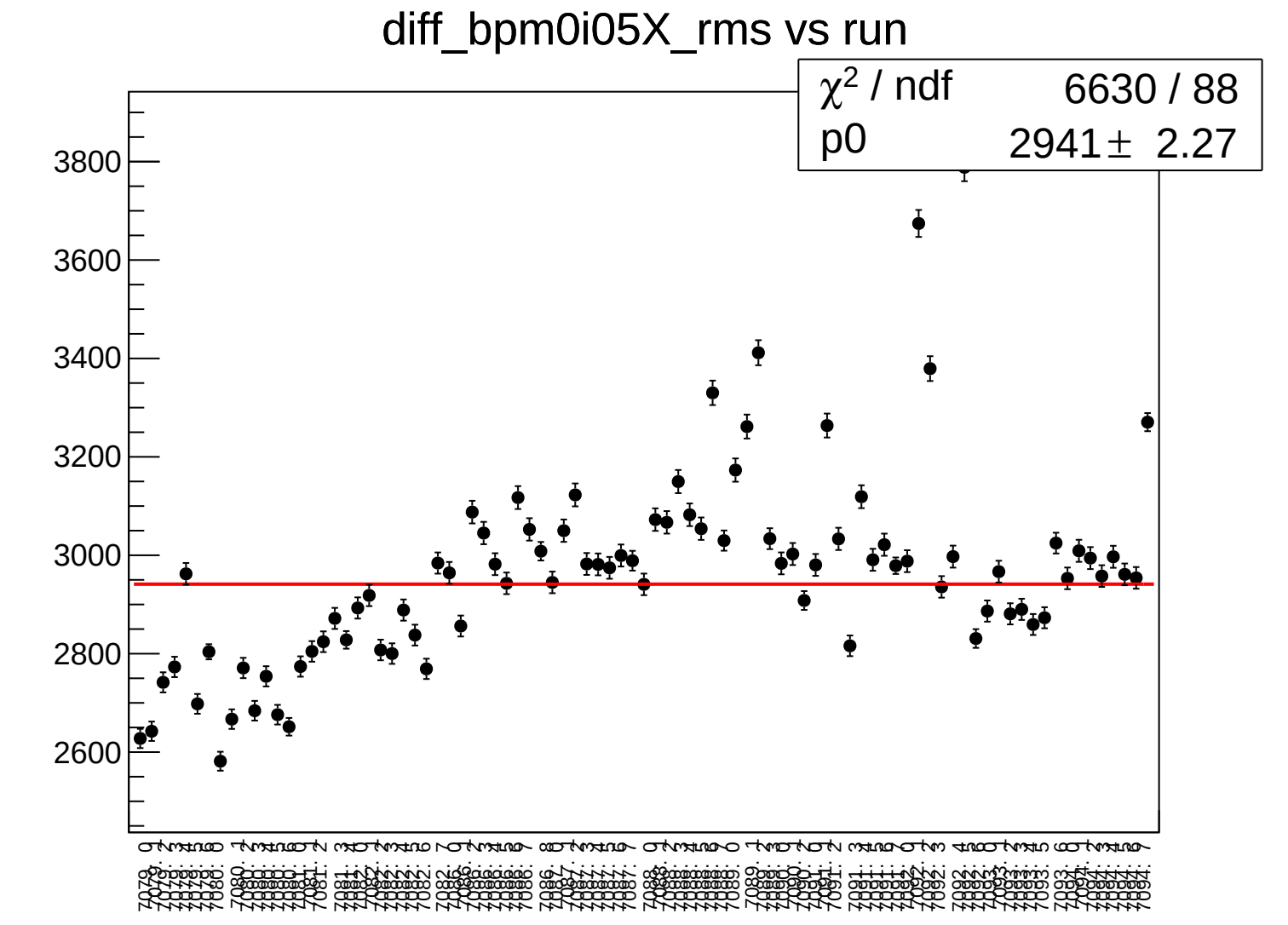

diff_bpm0i02aY_mean vs run
χ^2 / ndf 110.2 / 88
p0 11.16 ± 1.956
pull
Entries 89
Mean 54.5
Std Dev 100.3

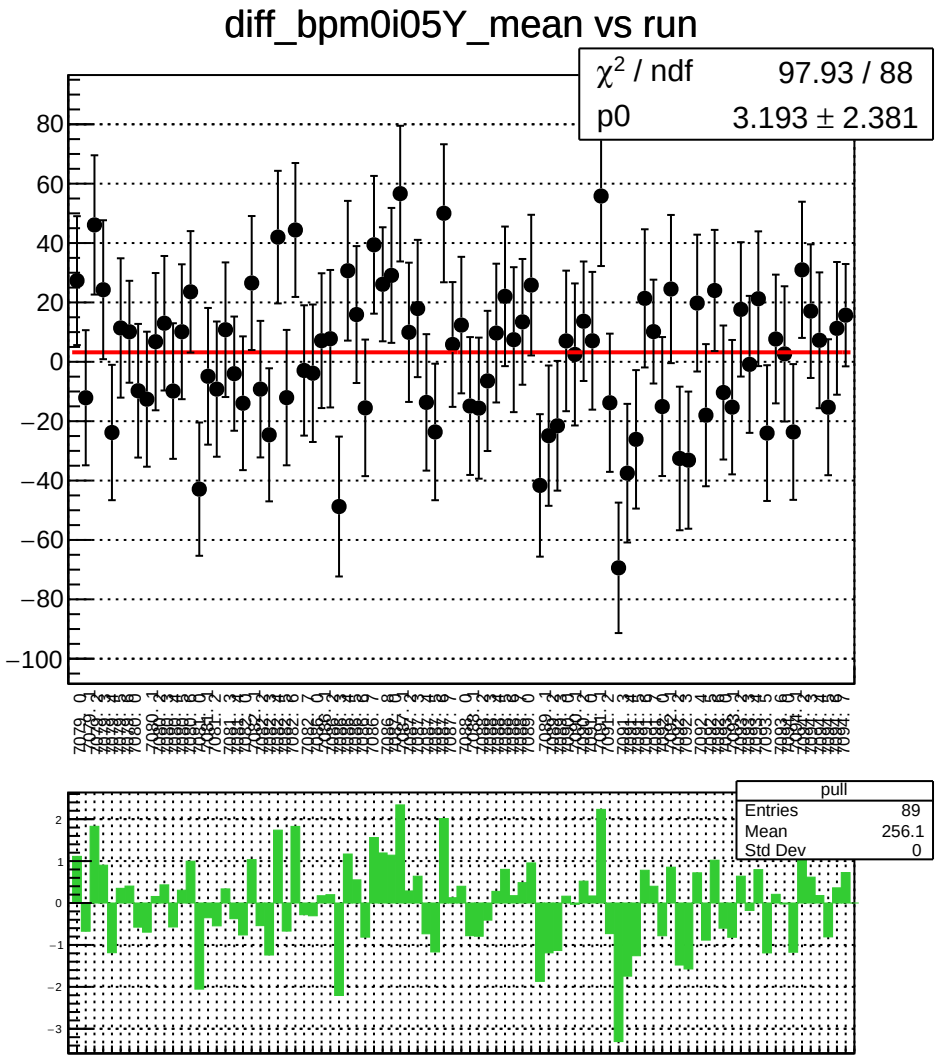

pull1D
Entries 89
Mean 0.01527
Std Dev 1.112

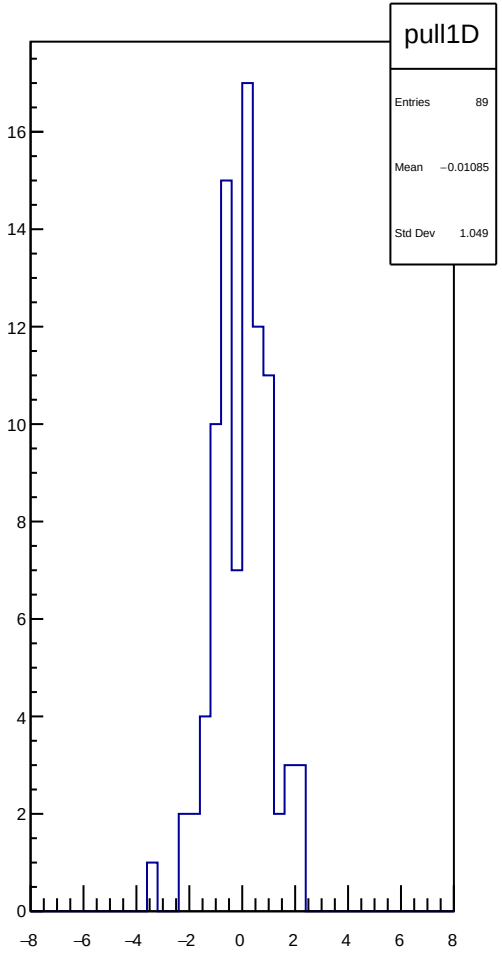

diff_bpm0i02aY_rms vs run
χ² / ndf 1055 / 88
p0 1795 ± 1.383
1900
1850
1800
1750
1700
1650
1600

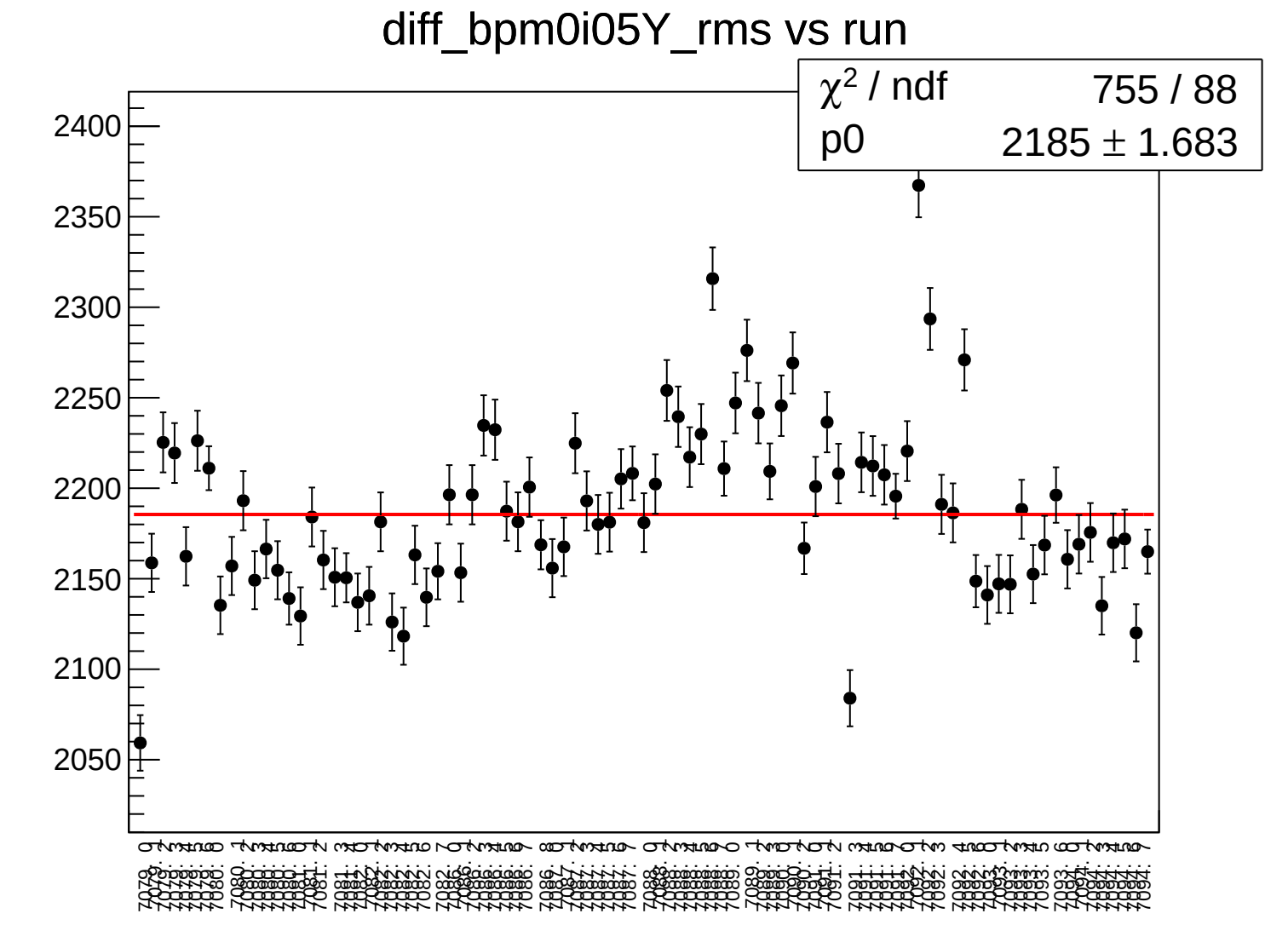

diff_bpm0i05X_mean vs run
χ^2 / ndf 75.89 / 88
p0 −41.26 ± 3.21
50
0
−50
−100
−150
pull
Entries 89
Mean 618.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

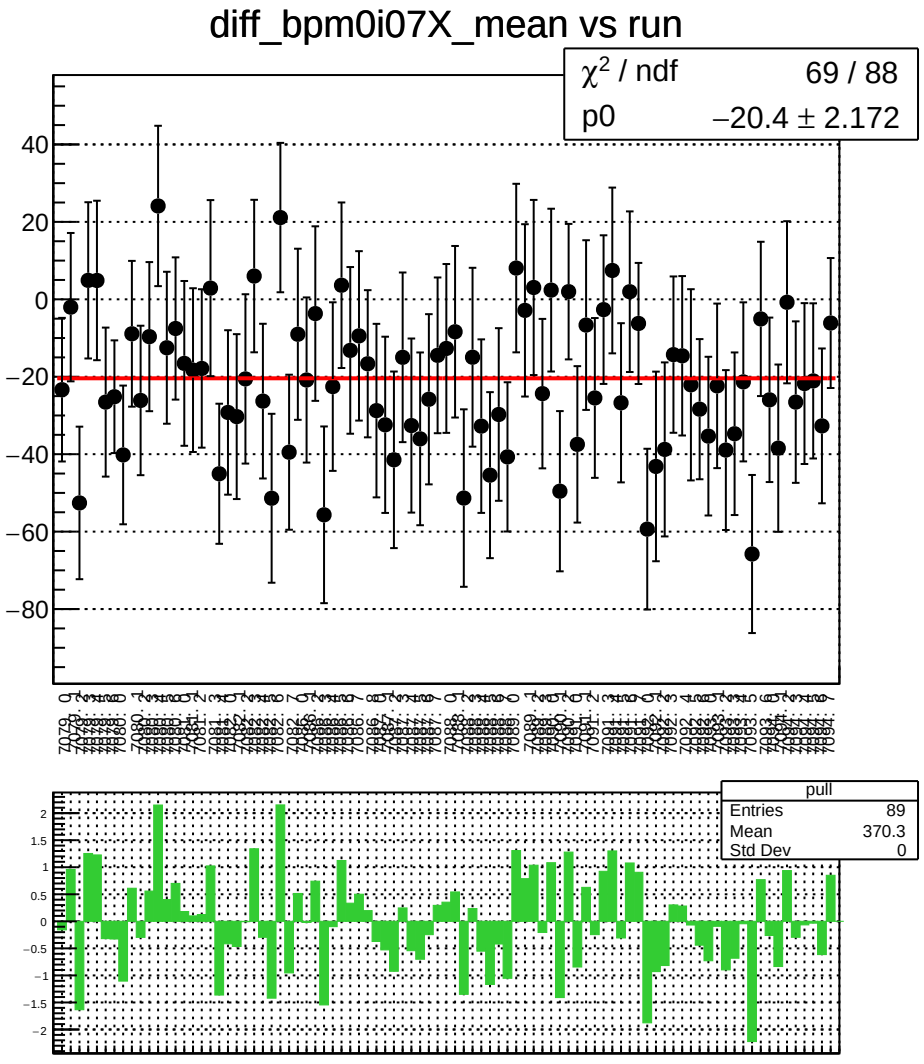

pull1D
Entries 89
Mean −0.004284
Std Dev 0.9234
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

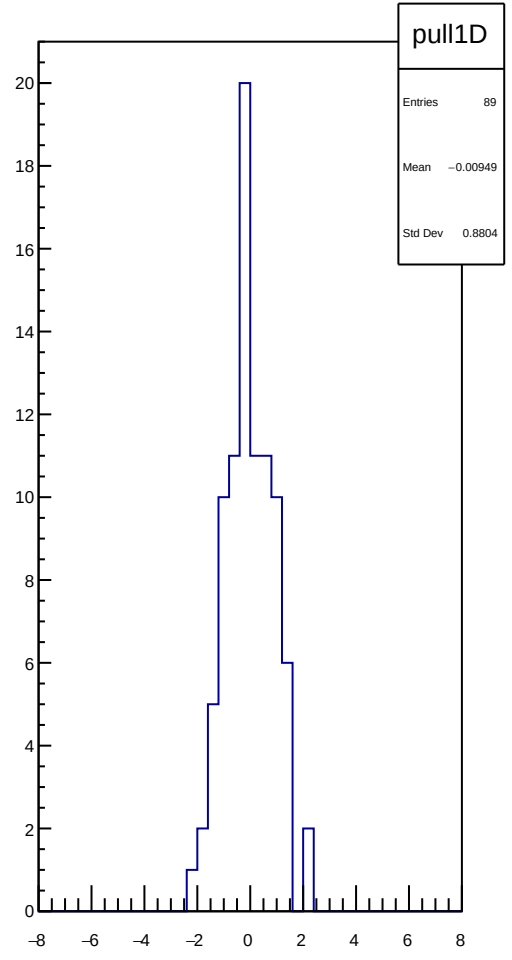

diff_bpm0i05X_rms vs run
χ² / ndf 6630 / 88
p0 2941 ± 2.27
3800
3600
3400
3200
3000
2800
2600

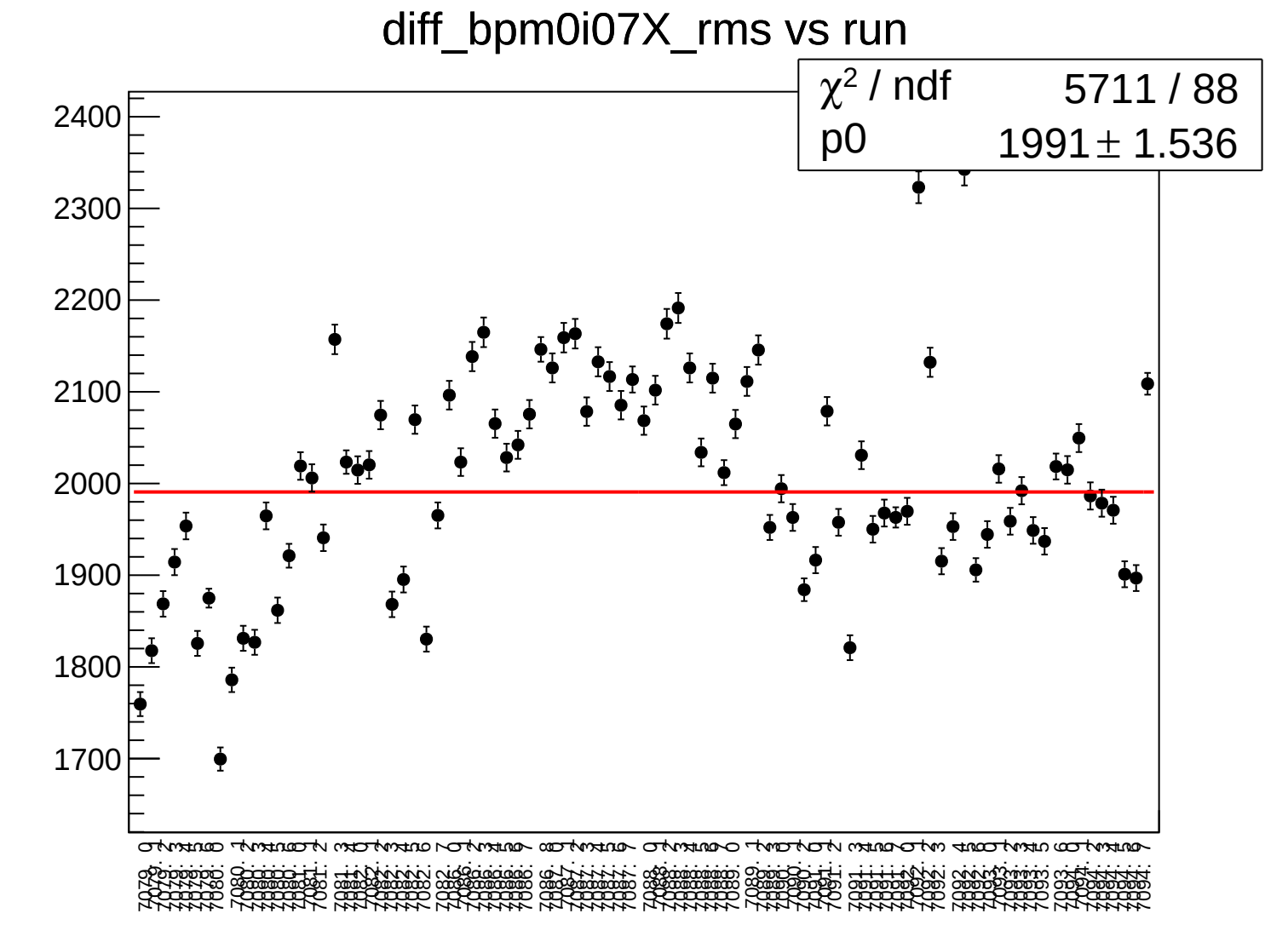

diff_bpm0i05Y_mean vs run
χ^2 / ndf 97.93 / 88
p0 3.193 ± 2.381
pull
Entries 89
Mean 256.1
Std Dev 0

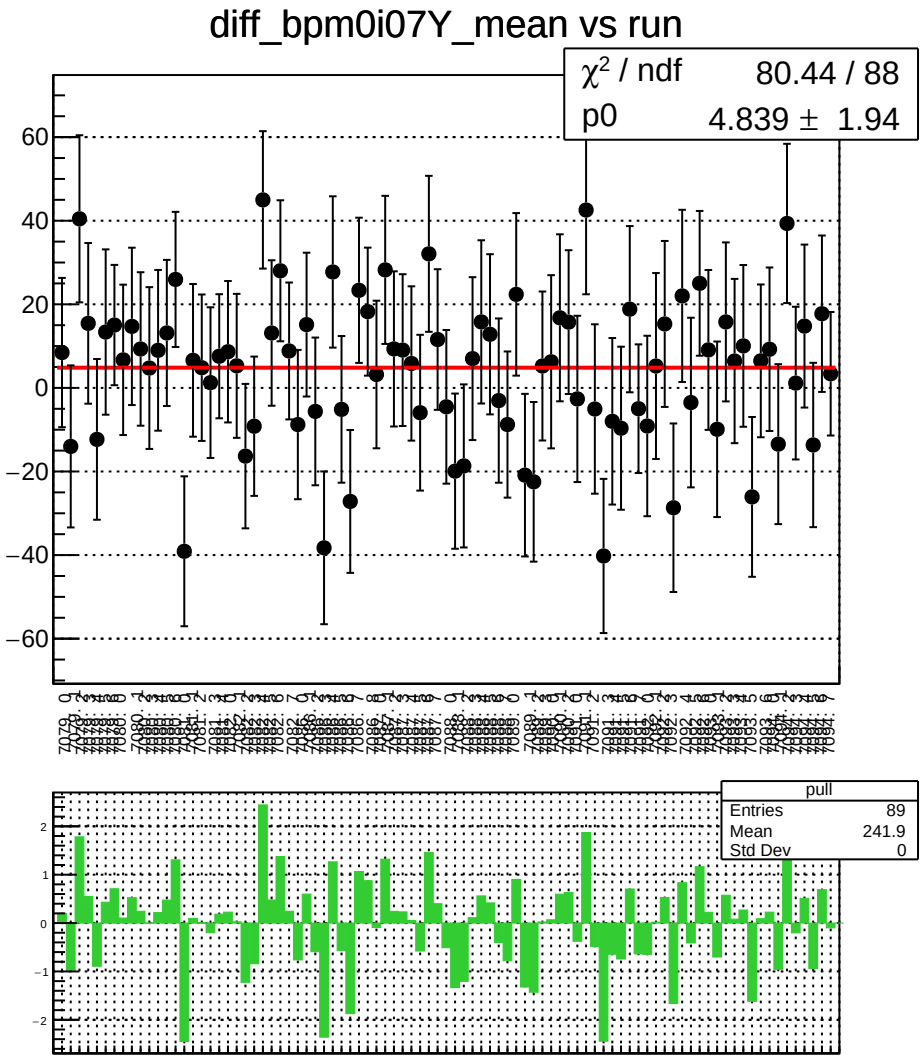

pull1D
Entries 89
Mean −0.01085
Std Dev 1.049

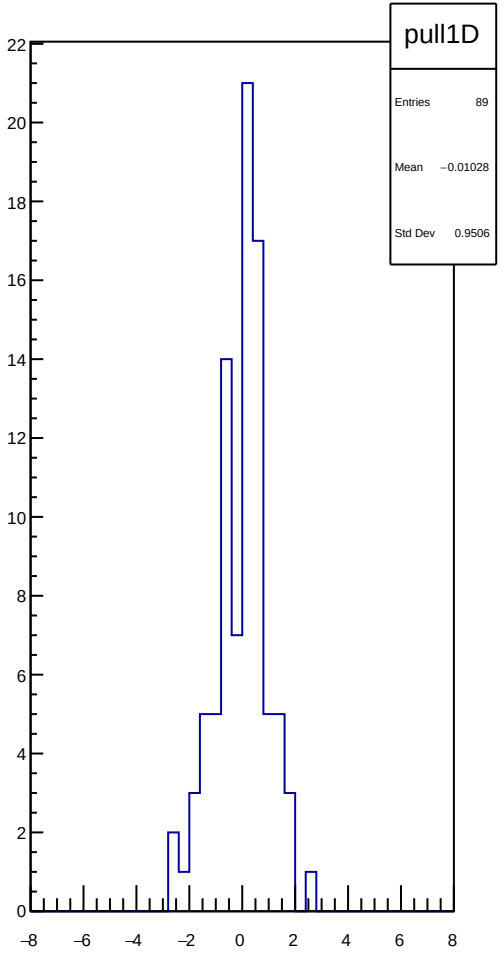

diff_bpm0i05Y_rms vs run
χ² / ndf 755 / 88
p0 2185 ± 1.683
2400
2350
2300
2250
2200
2150
2100
2050

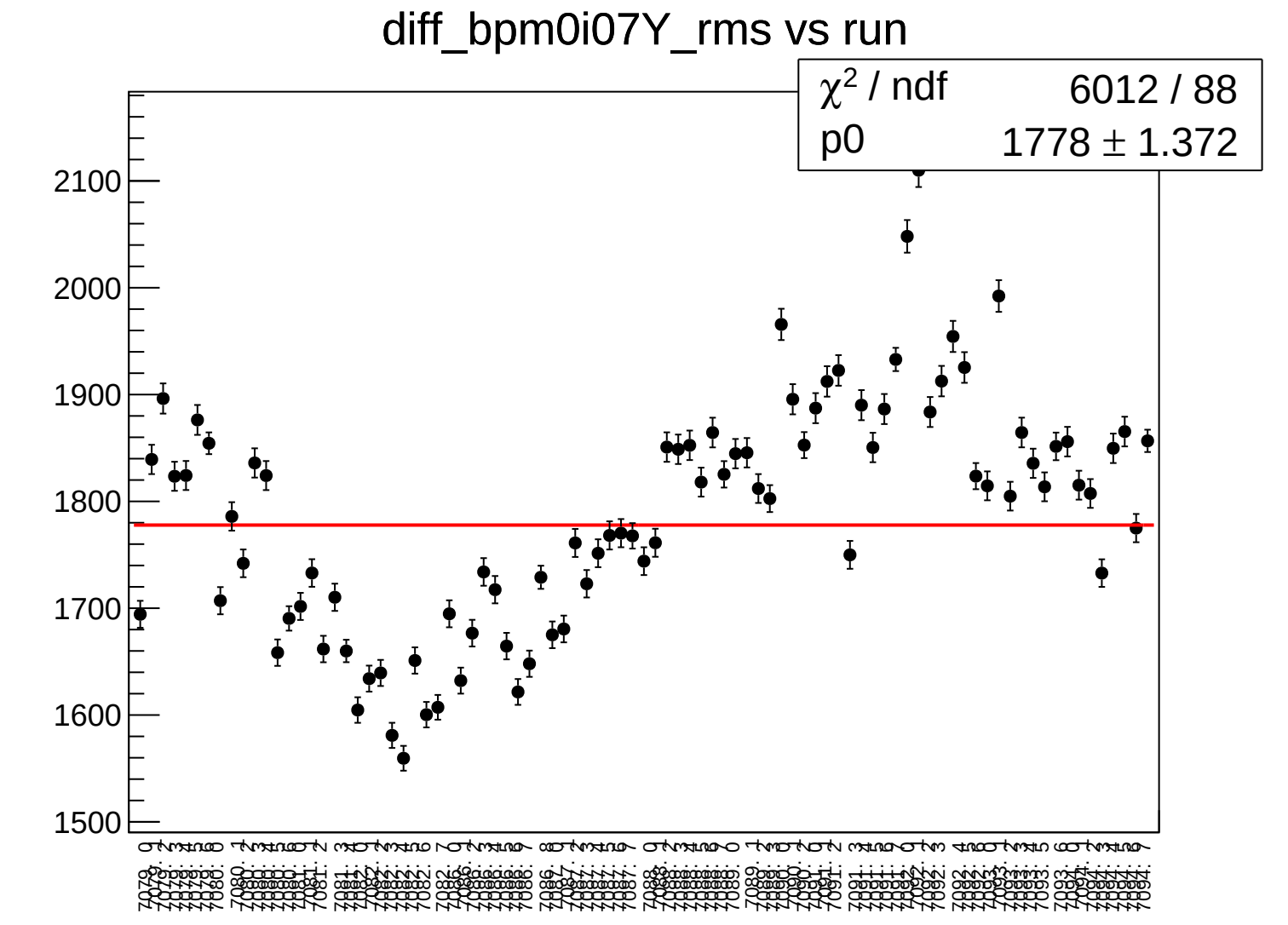

diff_bpm0i07X_mean vs run
χ² / ndf 69 / 88
p0 −20.4 ± 2.172
pull
Entries 89
Mean 370.3
Std Dev 0

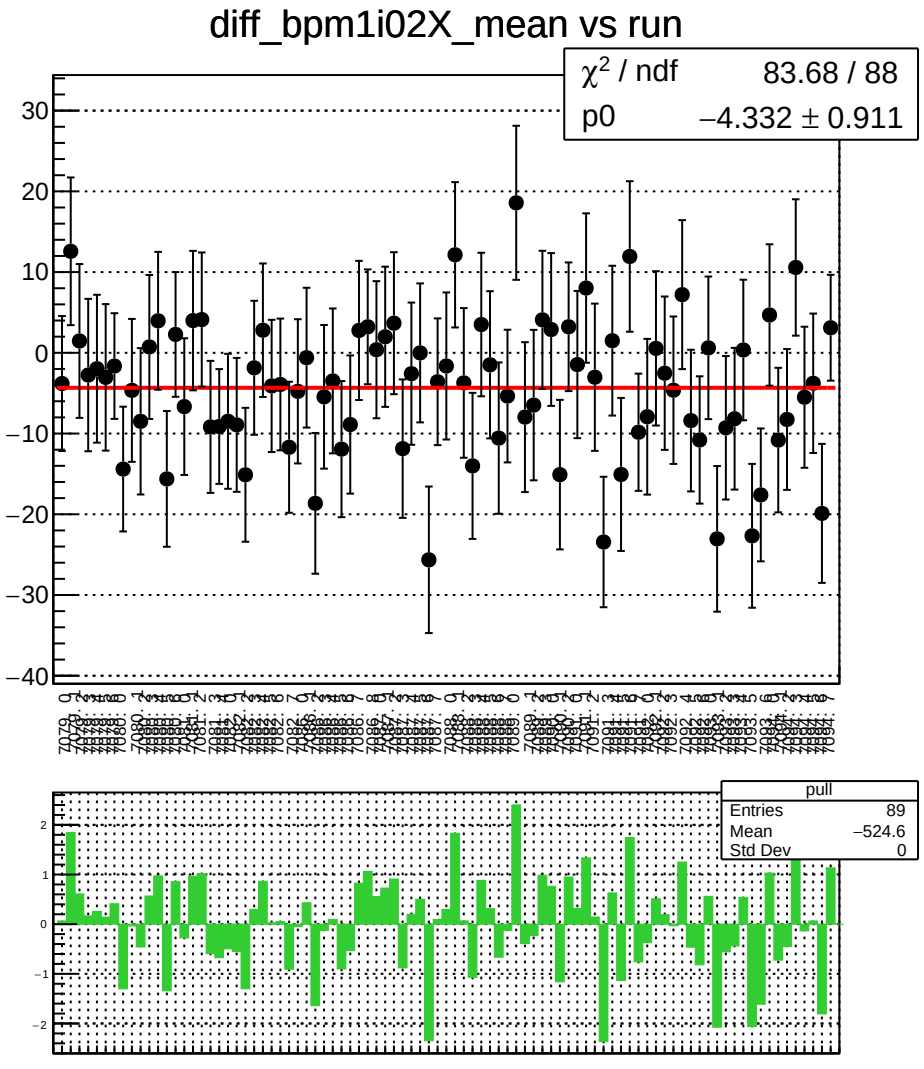

pull1D
Entries 89
Mean −0.00949
Std Dev 0.8804

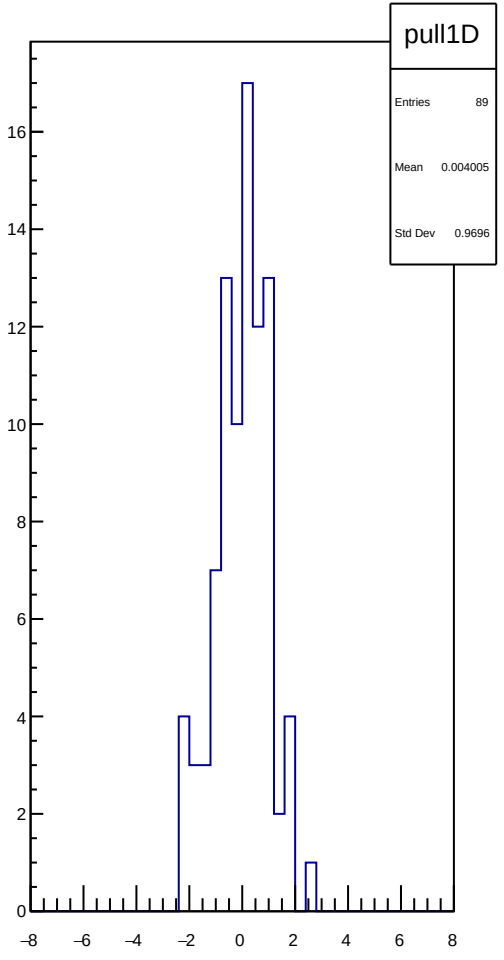

diff_bpm0i07X_rms vs run
χ² / ndf 5711 / 88
p0 1991 ± 1.536
2400
2300
2200
2100
2000
1900
1800
1700

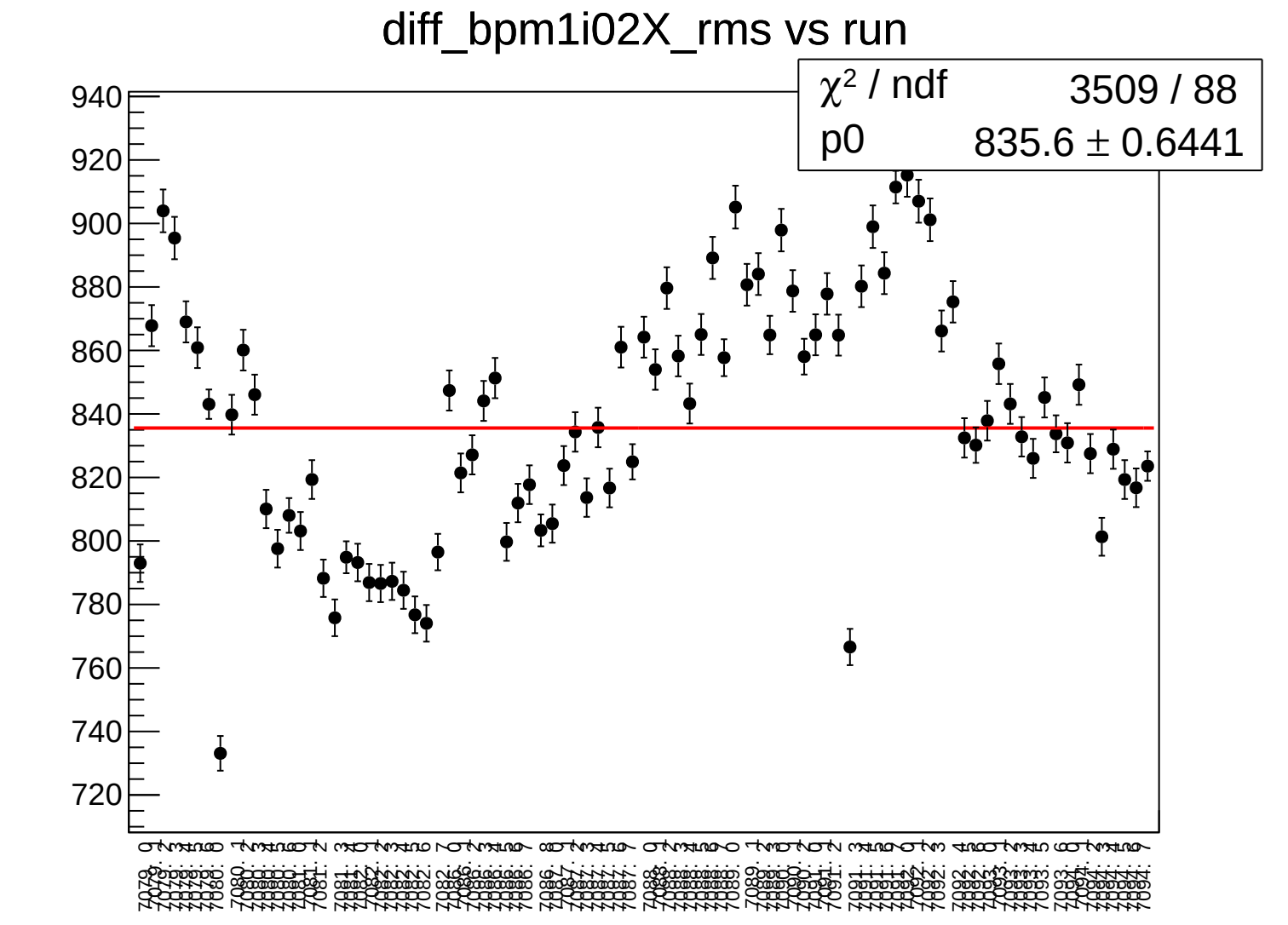

diff_bpm0i07Y_mean vs run
χ² / ndf 80.44 / 88
p0 4.839 ± 1.94
pull
Entries 89
Mean 241.9
Std Dev 0

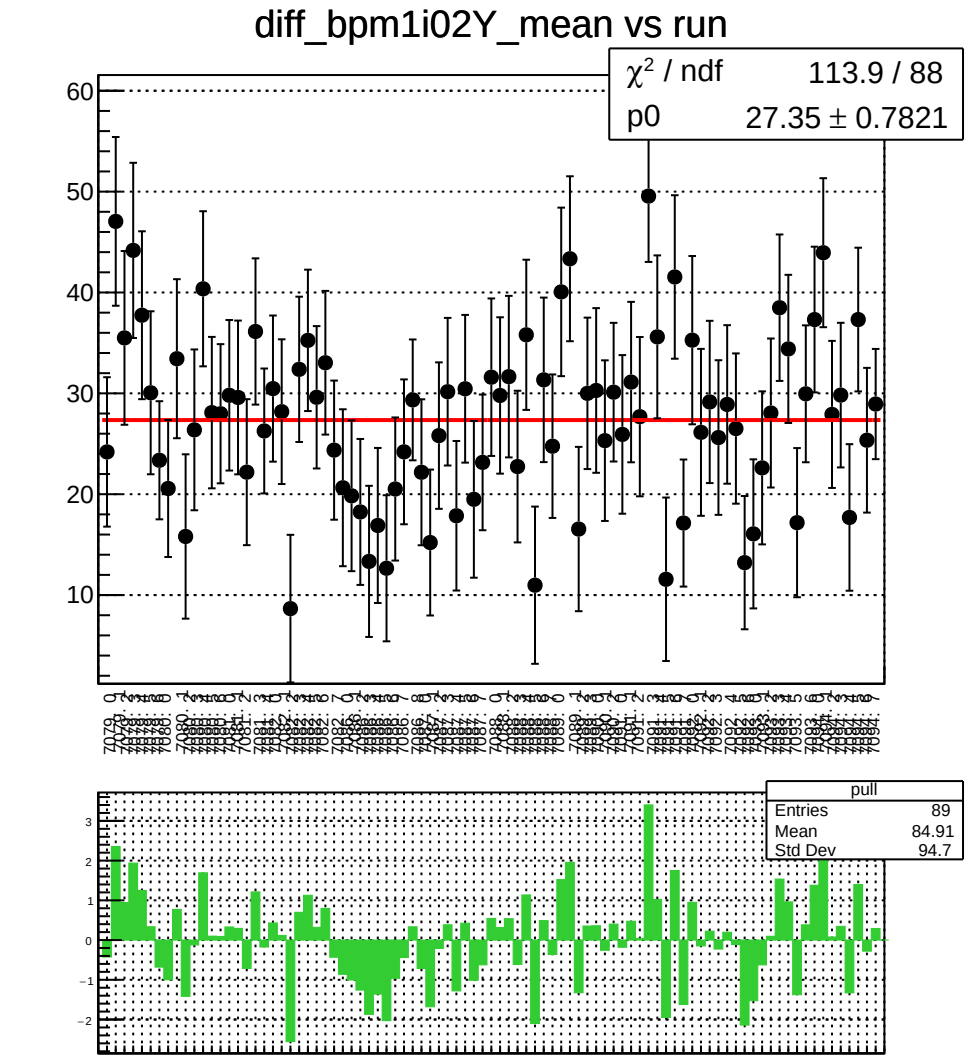

pull1D
Entries 89
Mean −0.01028
Std Dev 0.9506

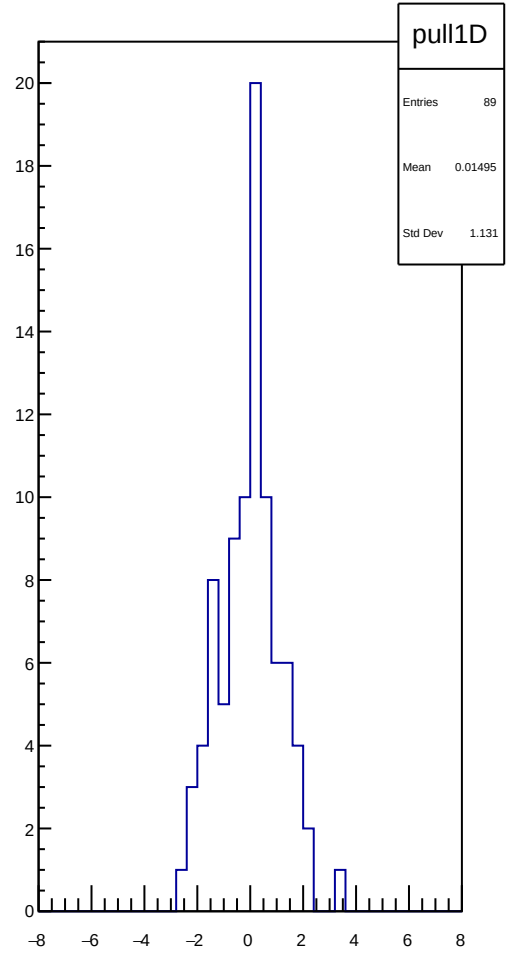

diff_bpm0i07Y_rms vs run
χ² / ndf 6012 / 88
p0 1778 ± 1.372
2100
2000
1900
1800
1700
1600
1500

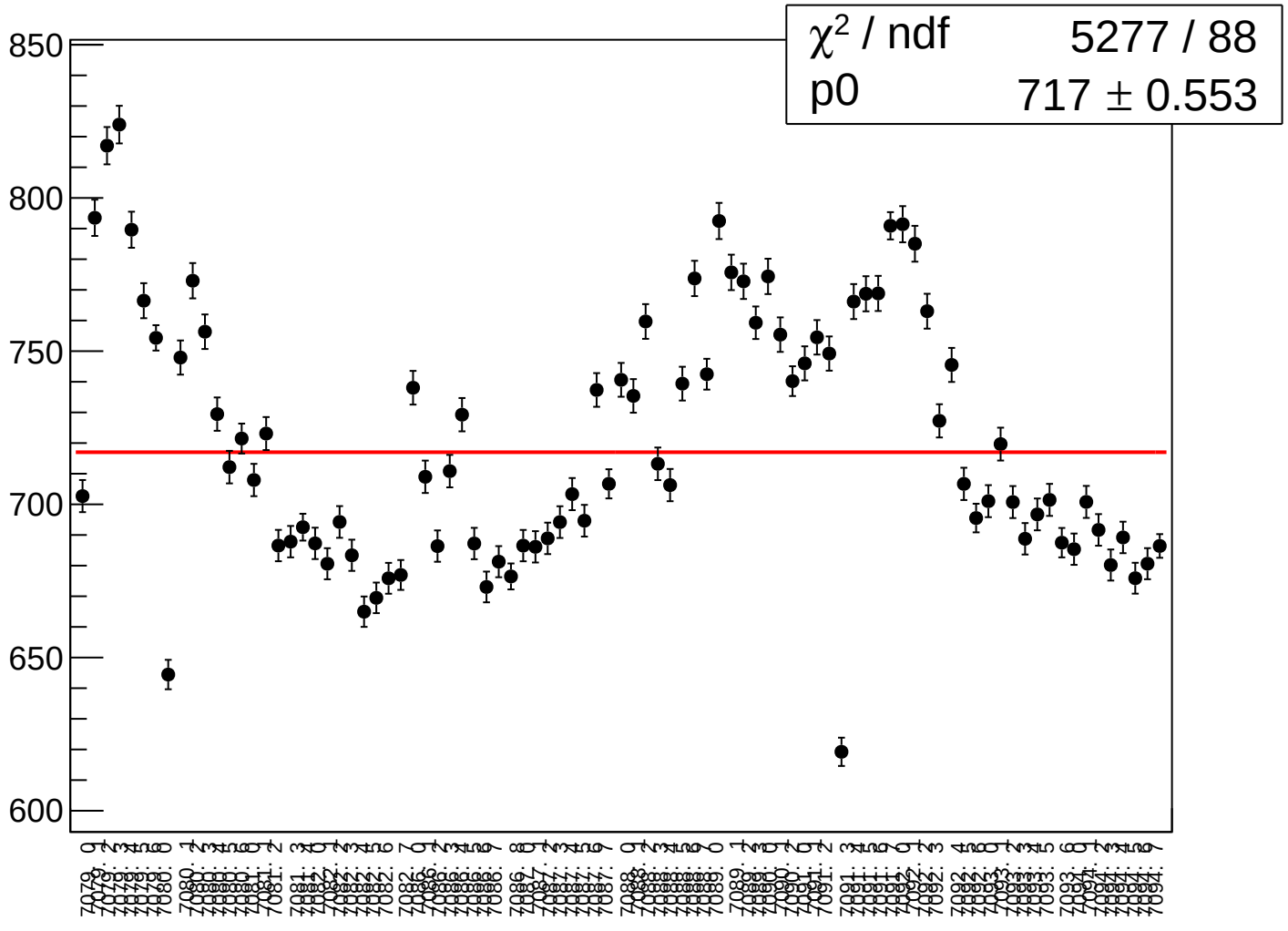

diff_bpm1i02X_mean vs run
χ^2 / ndf 83.68 / 88
p0 −4.332 ± 0.911
pull
Entries 89
Mean −524.6
Std Dev 0

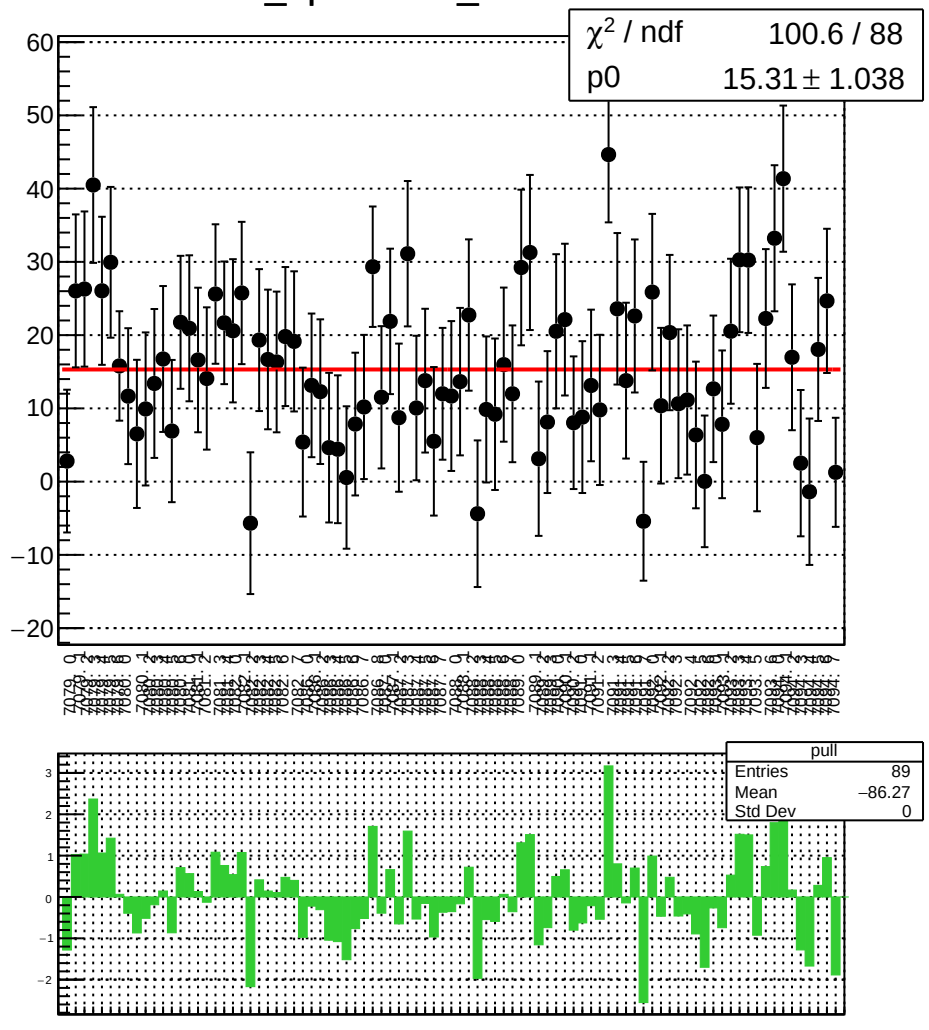

pull1D
Entries 89
Mean 0.004005
Std Dev 0.9696

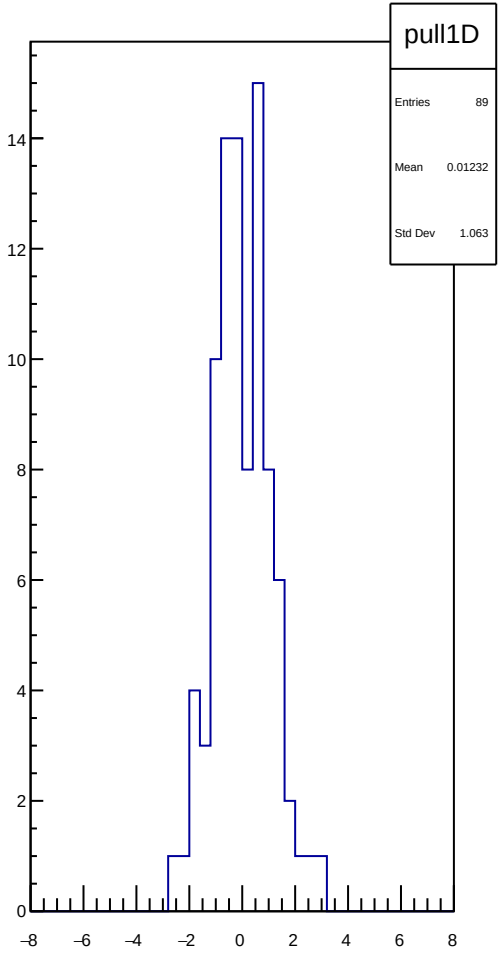

diff_bpm1i02X_rms vs run
χ² / ndf 3509 / 88
p0 835.6 ± 0.6441
940
920
900
880
860
840
820
800
780
760
740
720

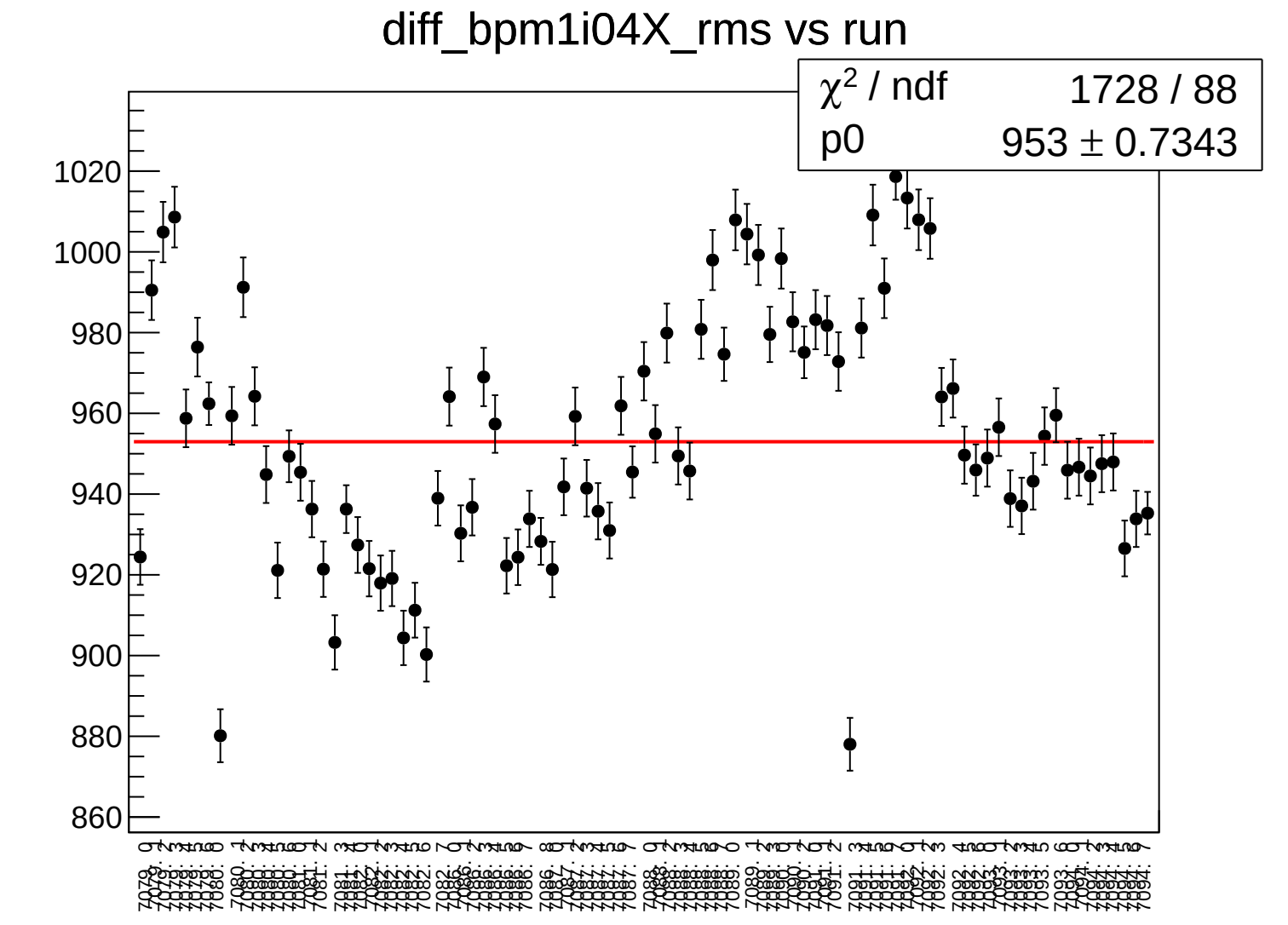

diff_bpm1i02Y_mean vs run
χ² / ndf 113.9 / 88
p0 27.35 ± 0.7821
pull
Entries 89
Mean 84.91
Std Dev 94.7

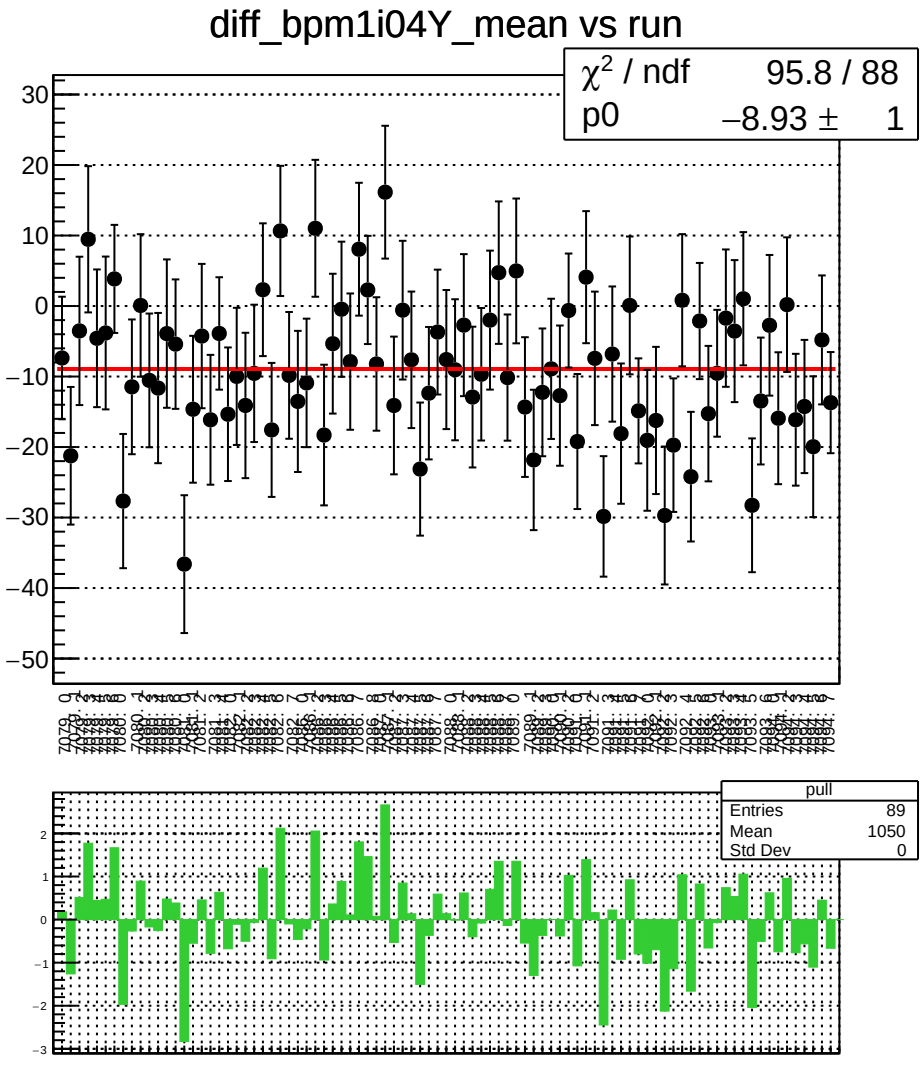

pull1D
Entries 89
Mean 0.01495
Std Dev 1.131

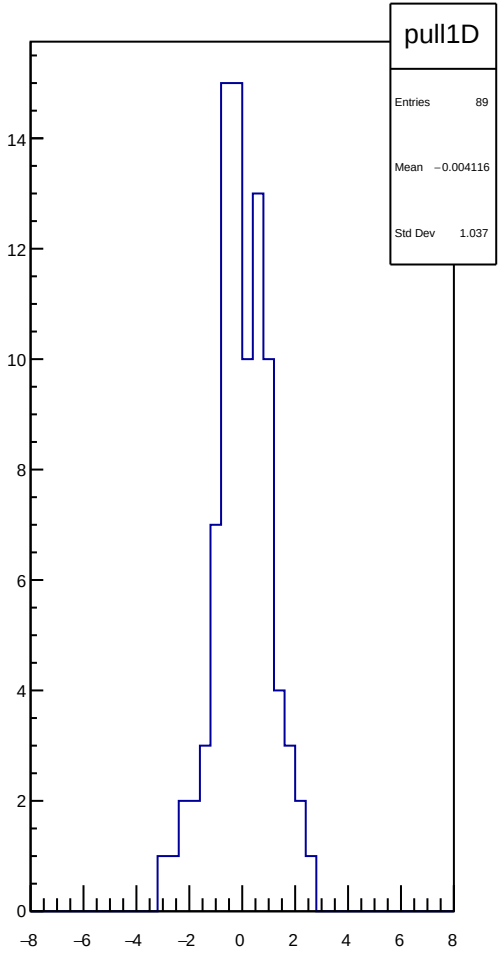

diff_bpm1i02Y_rms vs run
χ² / ndf 5277 / 88
p0 717 ± 0.553
850
800
750
700
650
600

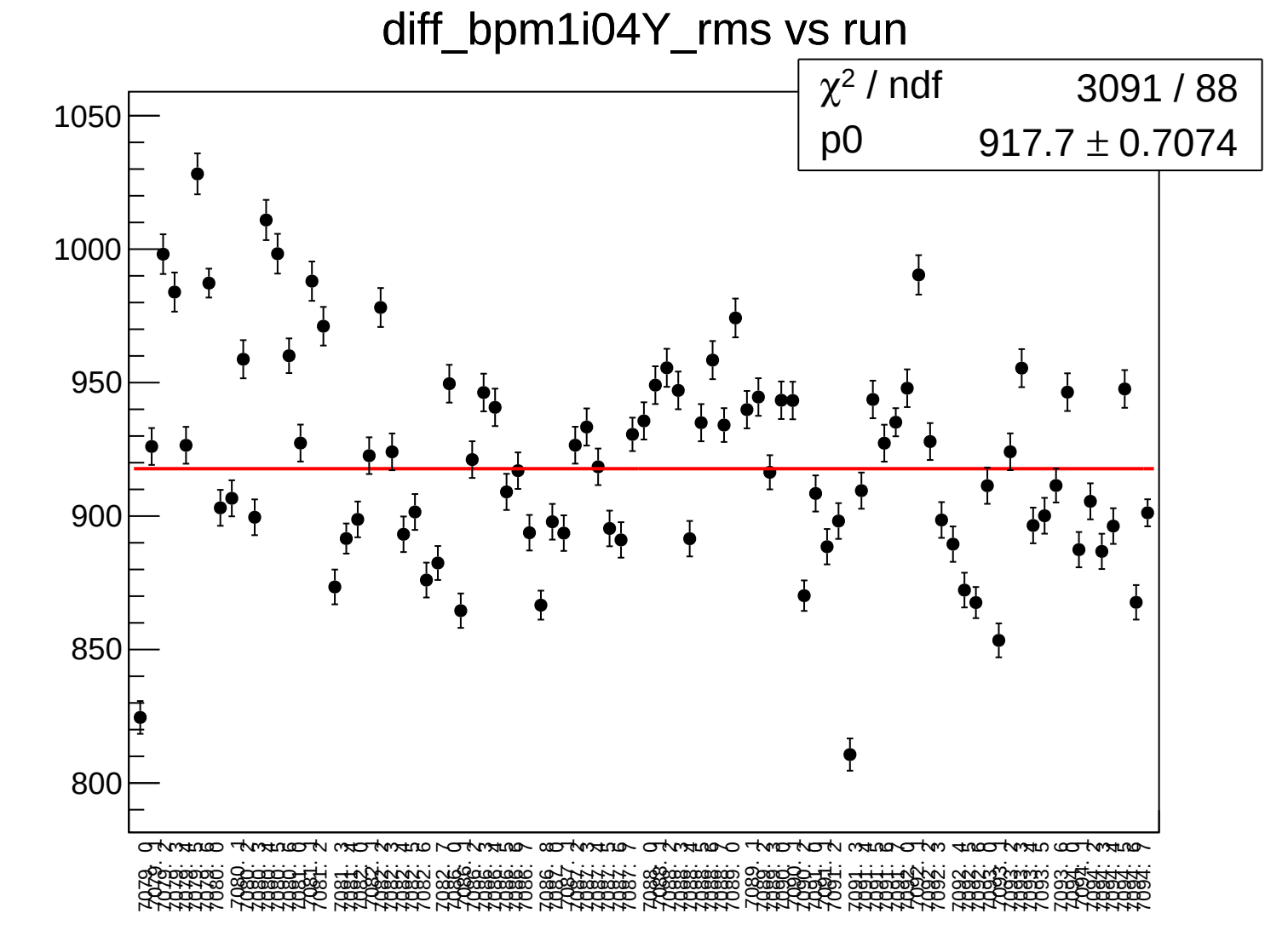

diff_bpm1i04X_mean vs run
χ^2 / ndf 100.6 / 88
p0 15.31 ± 1.038
pull
Entries 89
Mean −86.27
Std Dev 0

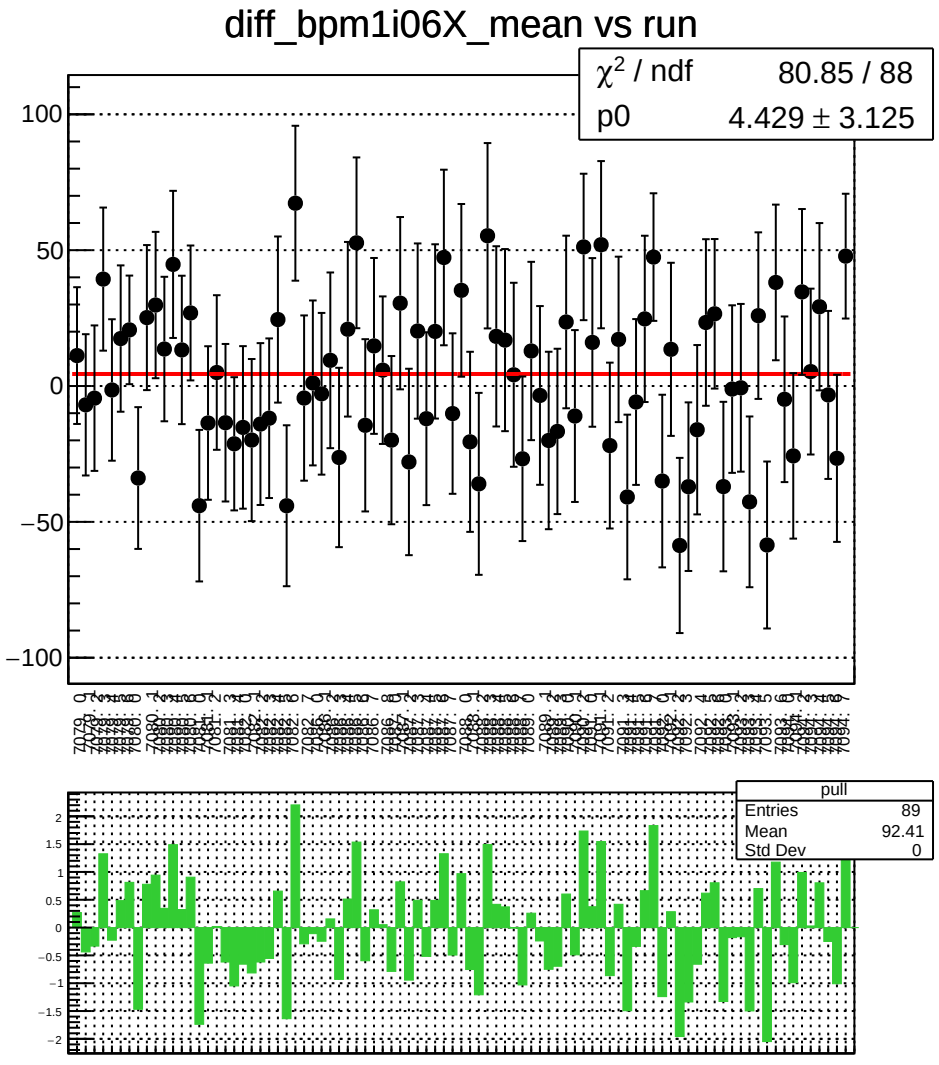

pull1D
Entries 89
Mean 0.01232
Std Dev 1.063

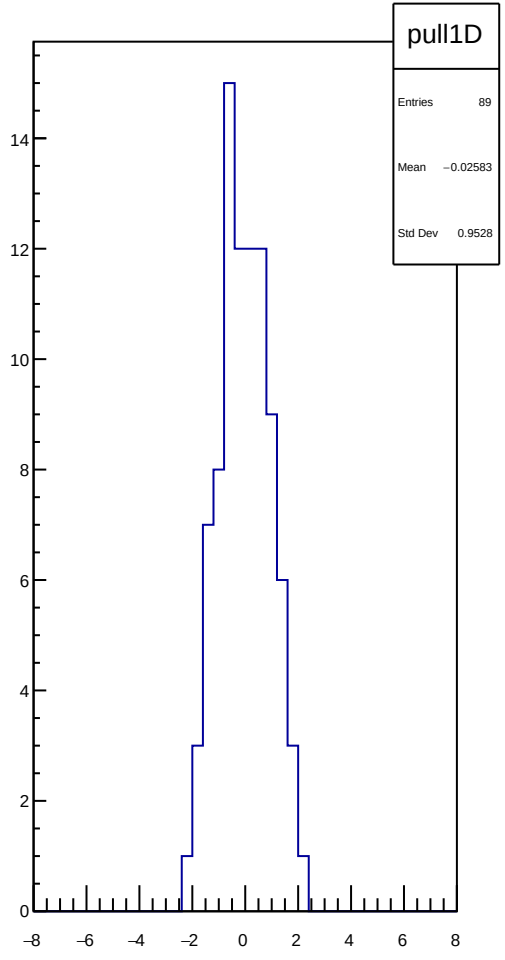

diff_bpm1i04X_rms vs run
χ² / ndf 1728 / 88
p0 953 ± 0.7343
1020
1000
980
960
940
920
900
880
860

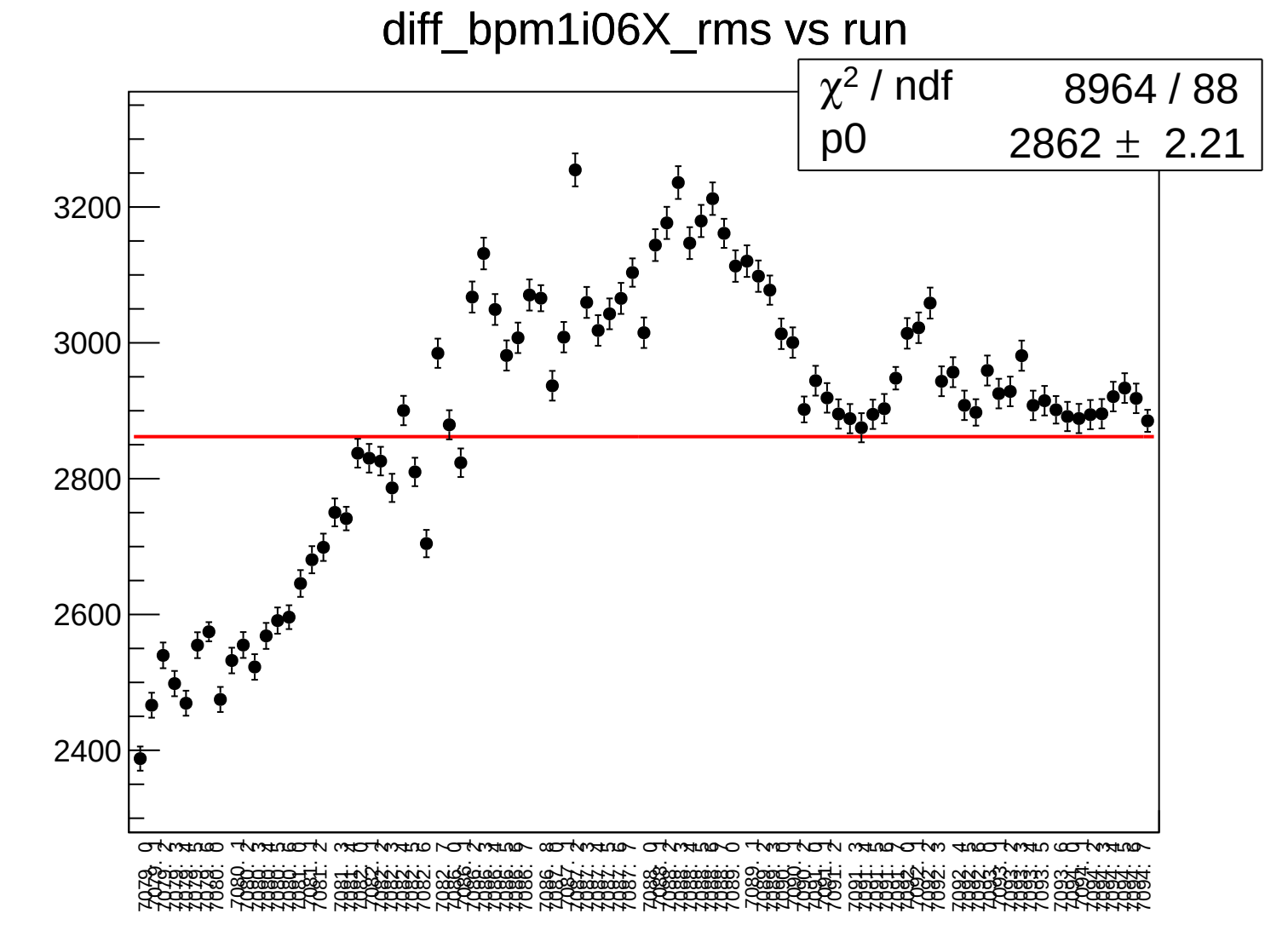

diff_bpm1i04Y_mean vs run
χ² / ndf 95.8 / 88
p0 −8.93 ± 1
pull
Entries 89
Mean 1050
Std Dev 0

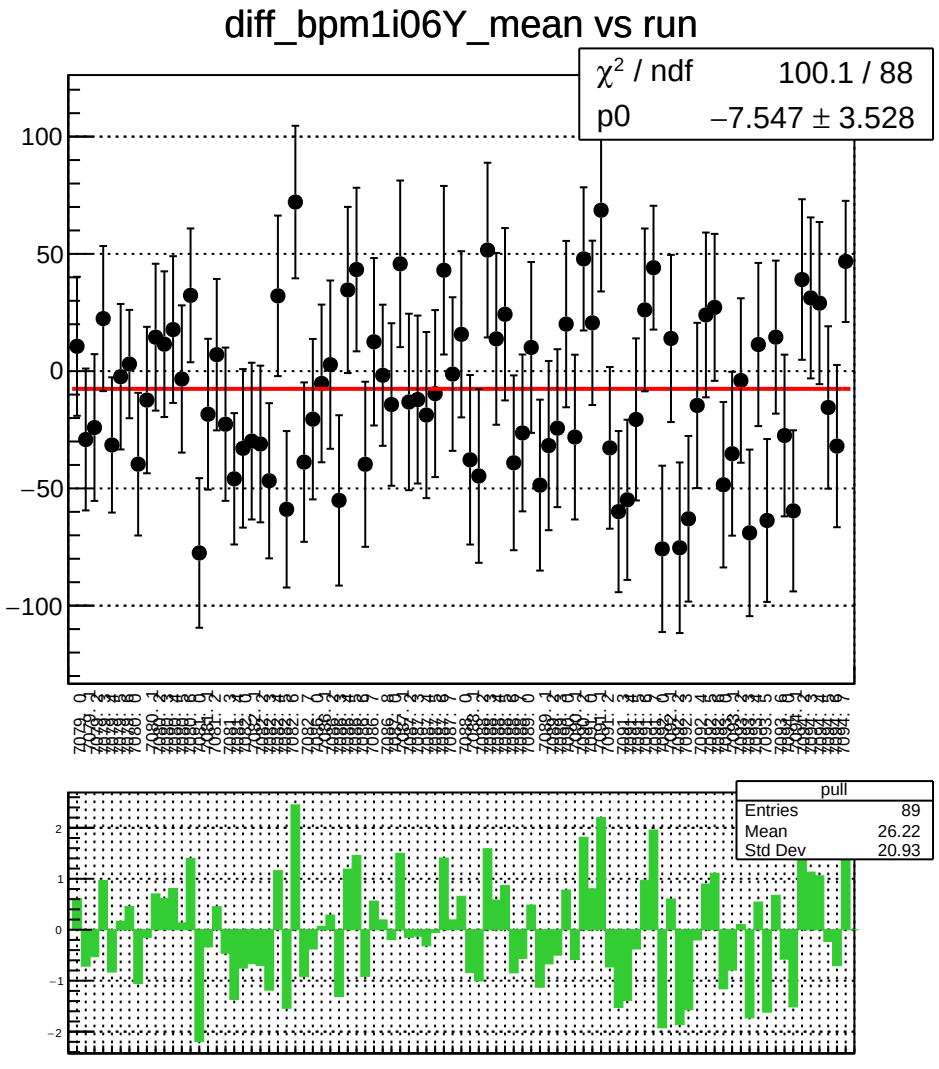

pull1D
Entries 89
Mean −0.004116
Std Dev 1.037

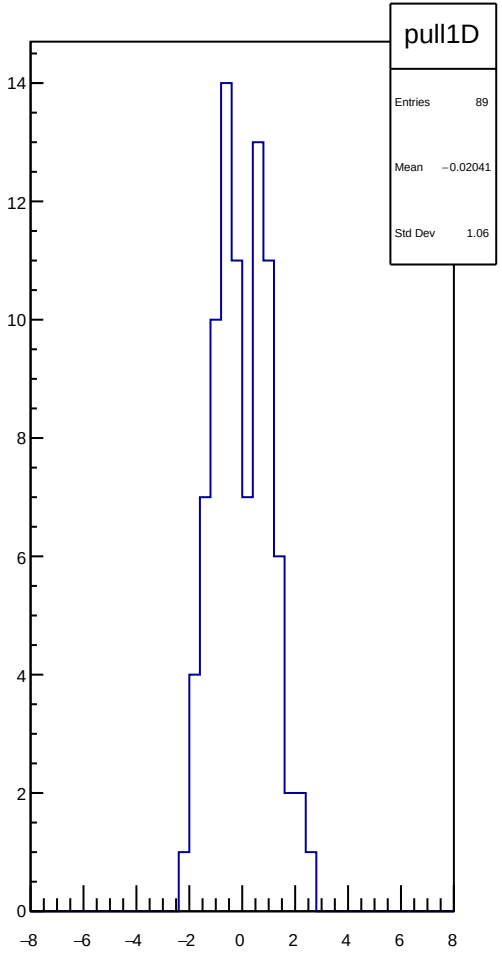

diff_bpm1i04Y_rms vs run
χ² / ndf 3091 / 88
p0 917.7 ± 0.7074
1050
1000
950
900
850
800

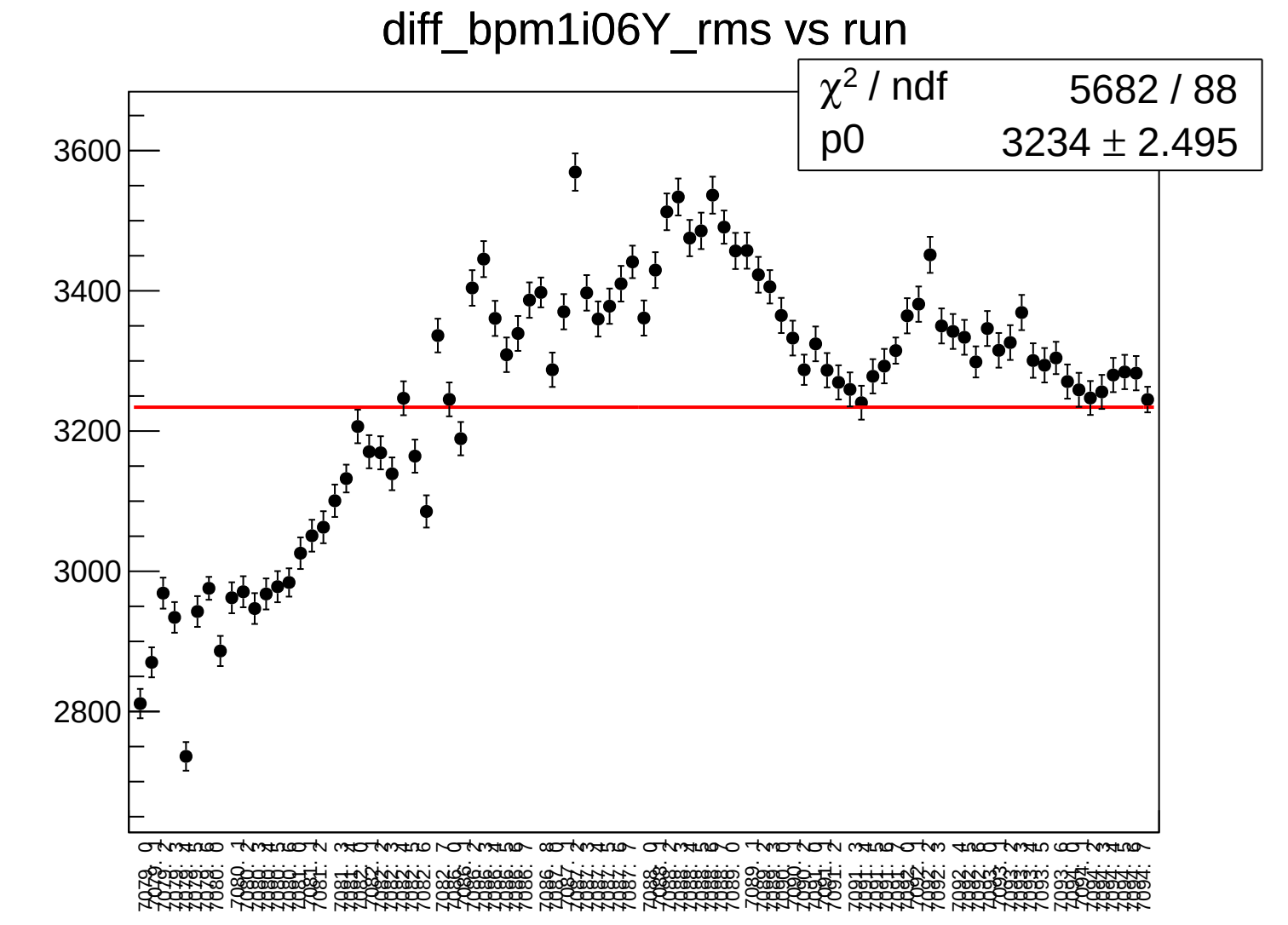

diff_bpm1i06X_mean vs run
χ^2 / ndf 80.85 / 88
p0 4.429 ± 3.125
100
50
0
−50
−100
pull
Entries 89
Mean 92.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

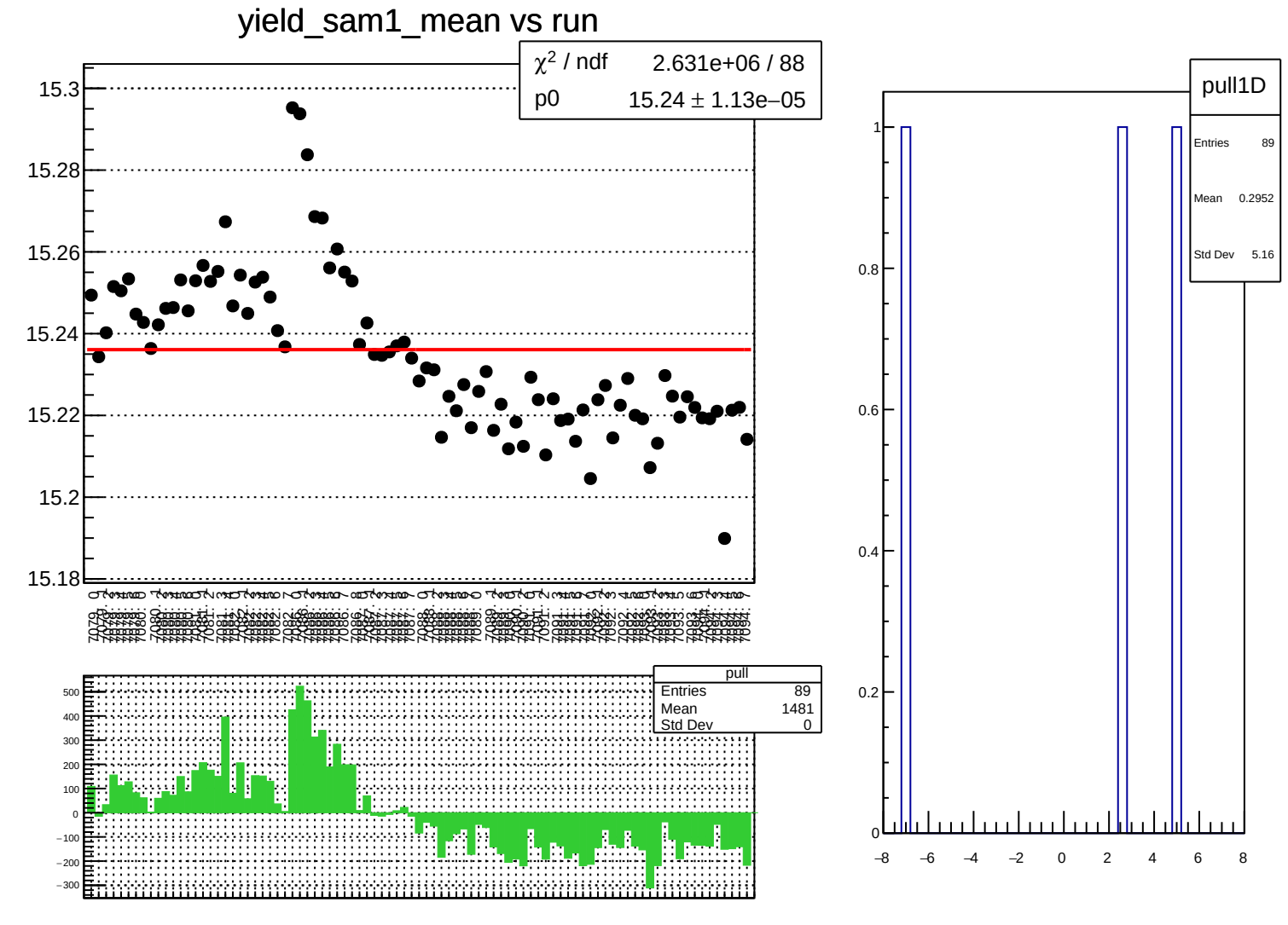

pull1D
Entries 89
Mean −0.02583
Std Dev 0.9528
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

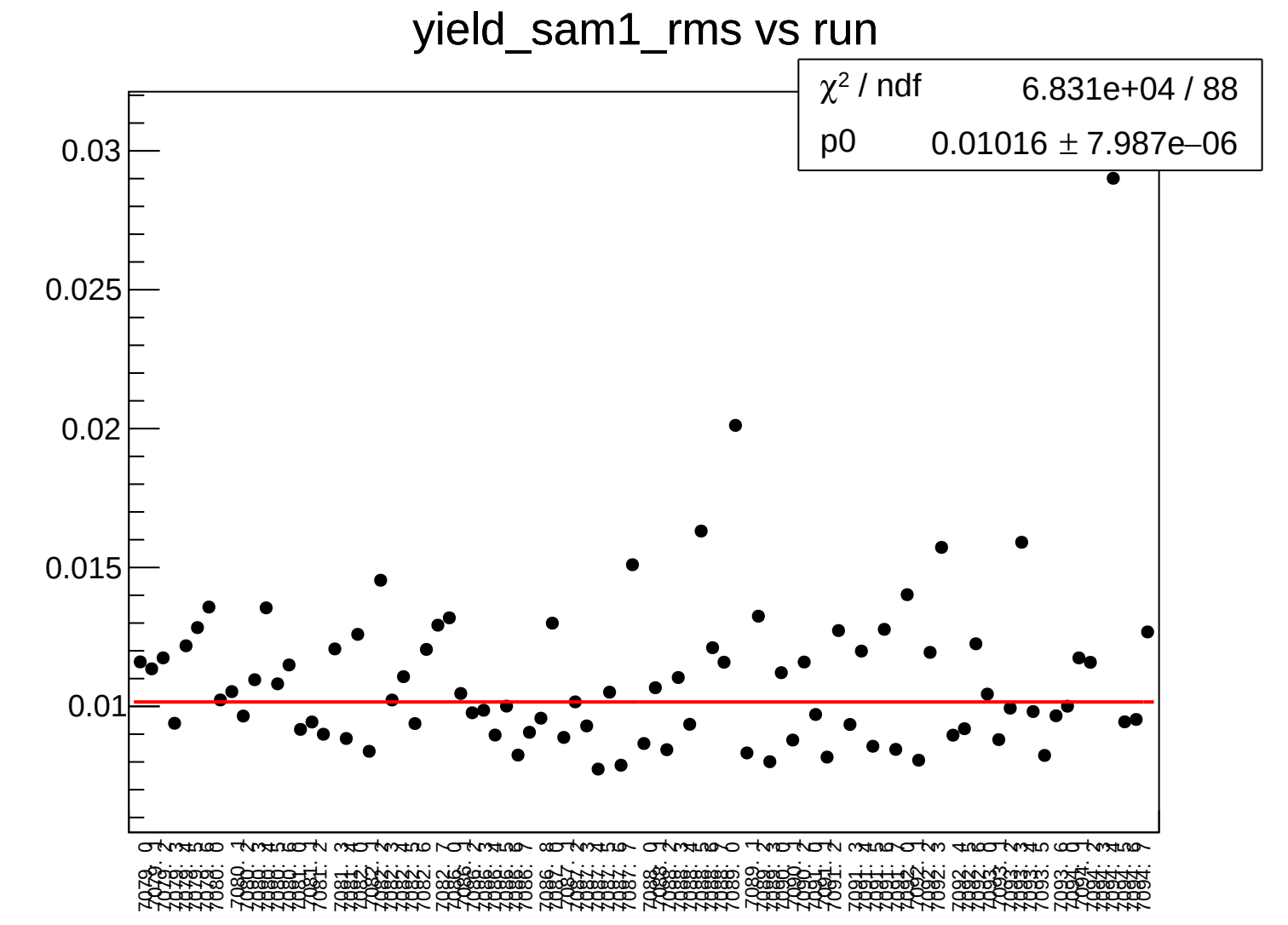

diff_bpm1i06X_rms vs run
χ² / ndf 8964 / 88
p0 2862 ± 2.21
3200
3000
2800
2600
2400

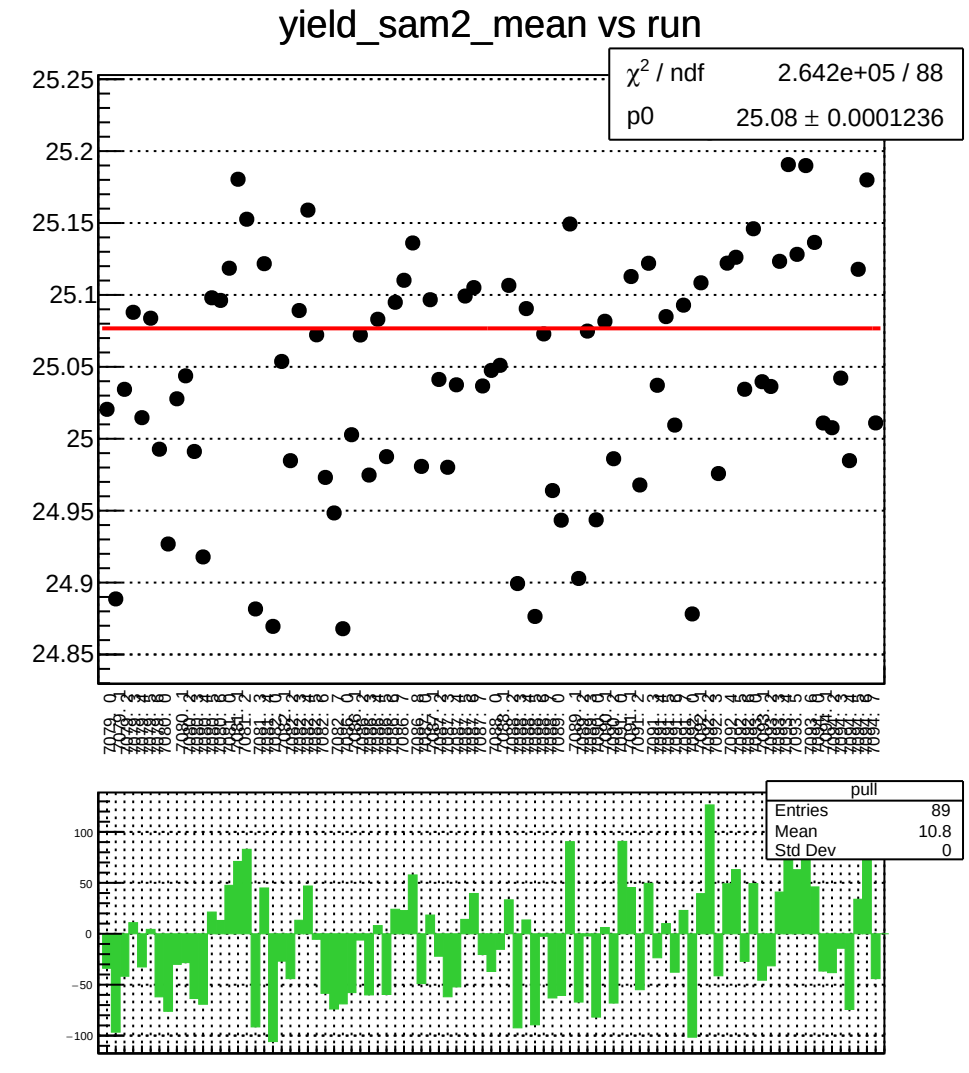

diff_bpm1i06Y_mean vs run
χ^2 / ndf 100.1 / 88
p0 −7.547 ± 3.528
100
50
0
−50
−100
pull
Entries 89
Mean 26.22
Std Dev 20.93
2
1
0
−1
−2

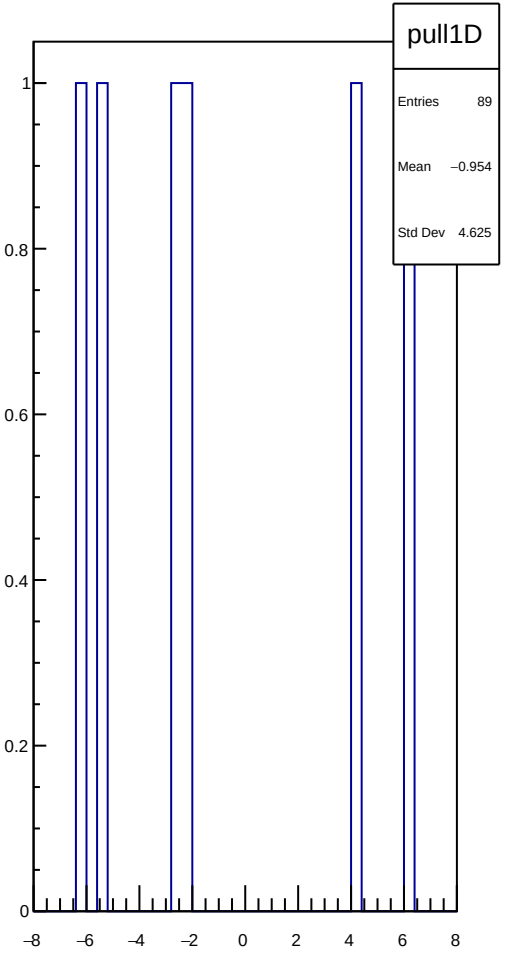

pull1D
Entries 89
Mean −0.02041
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

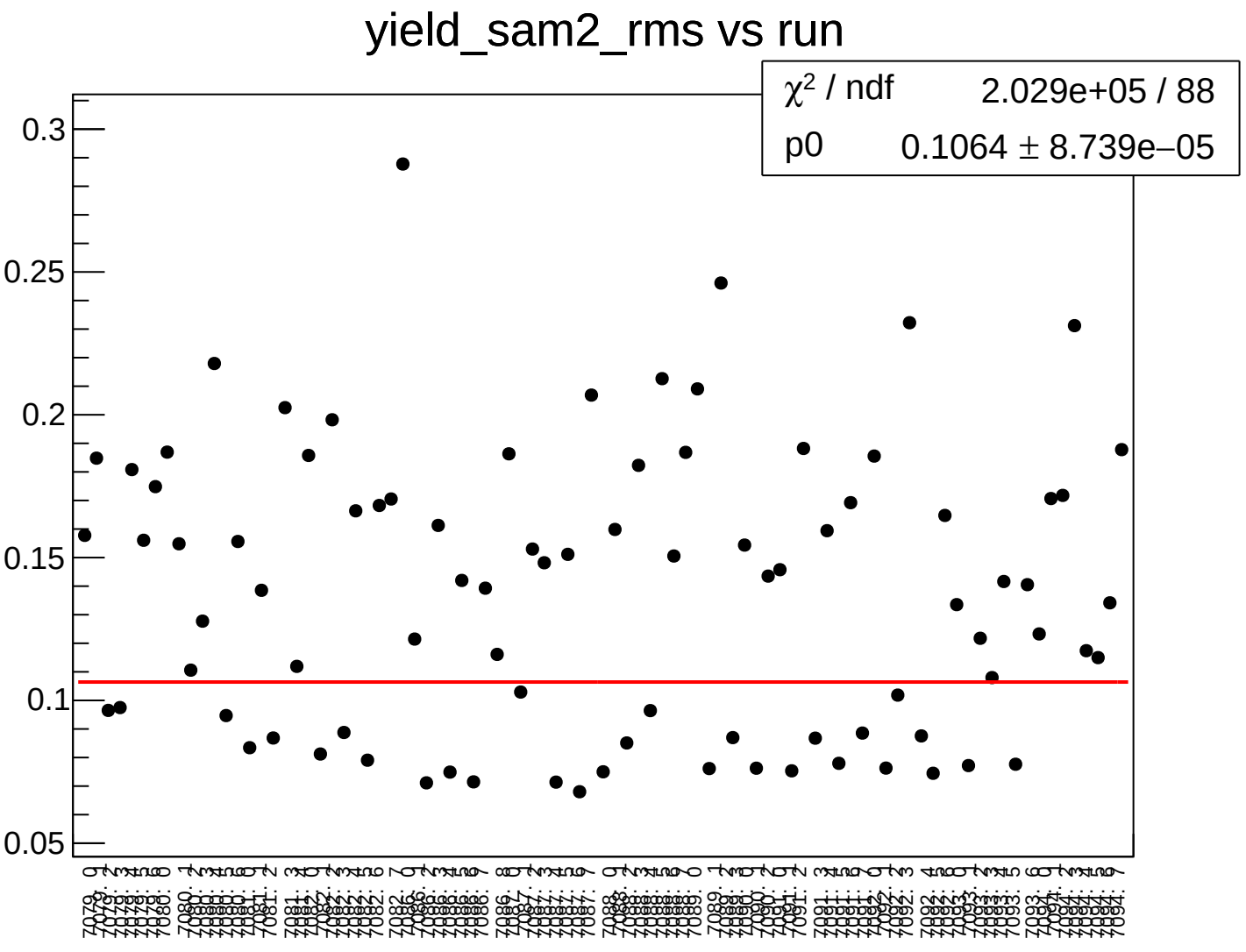

diff_bpm1i06Y_rms vs run
χ² / ndf 5682 / 88
p0 3234 ± 2.495
3600
3400
3200
3000
2800

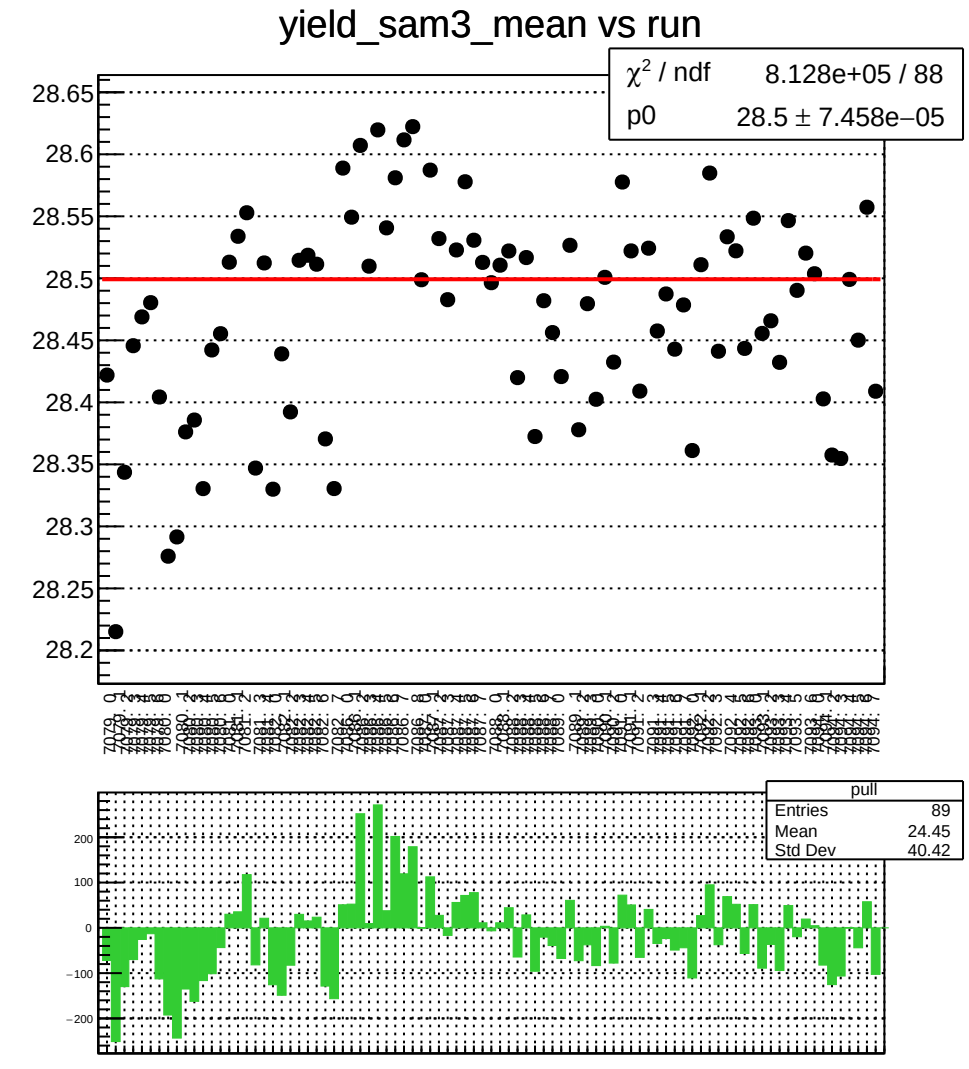

yield_sam1_mean vs run
χ² / ndf 2.631e+06 / 88
p0 15.24 ± 1.13e−05
15.3
15.28
15.26
15.24
15.22
15.2
15.18
pull
Entries 89
Mean 1481
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 89
Mean 0.2952
Std Dev 5.16
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

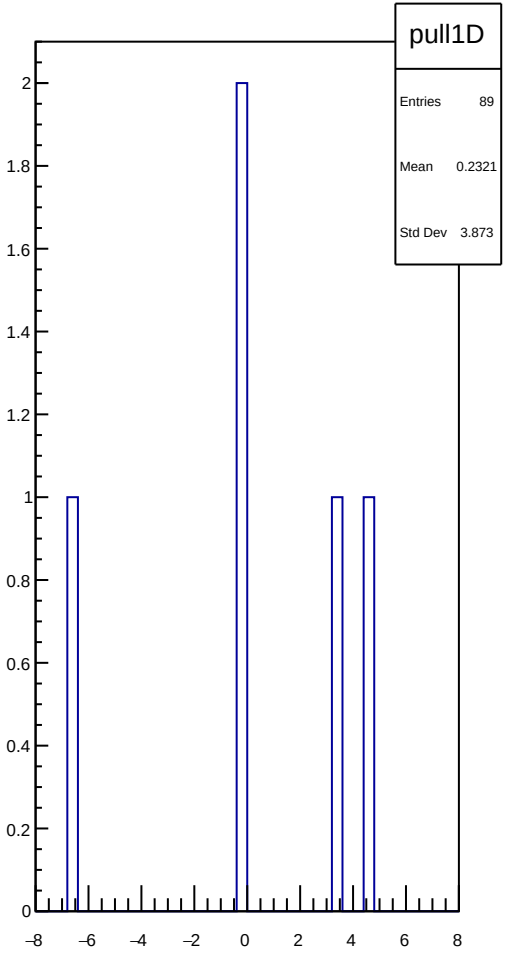

yield_sam1_rms vs run
χ² / ndf 6.831e+04 / 88
p0 0.01016 ± 7.987e–06
0.03
0.025
0.02
0.015
0.01

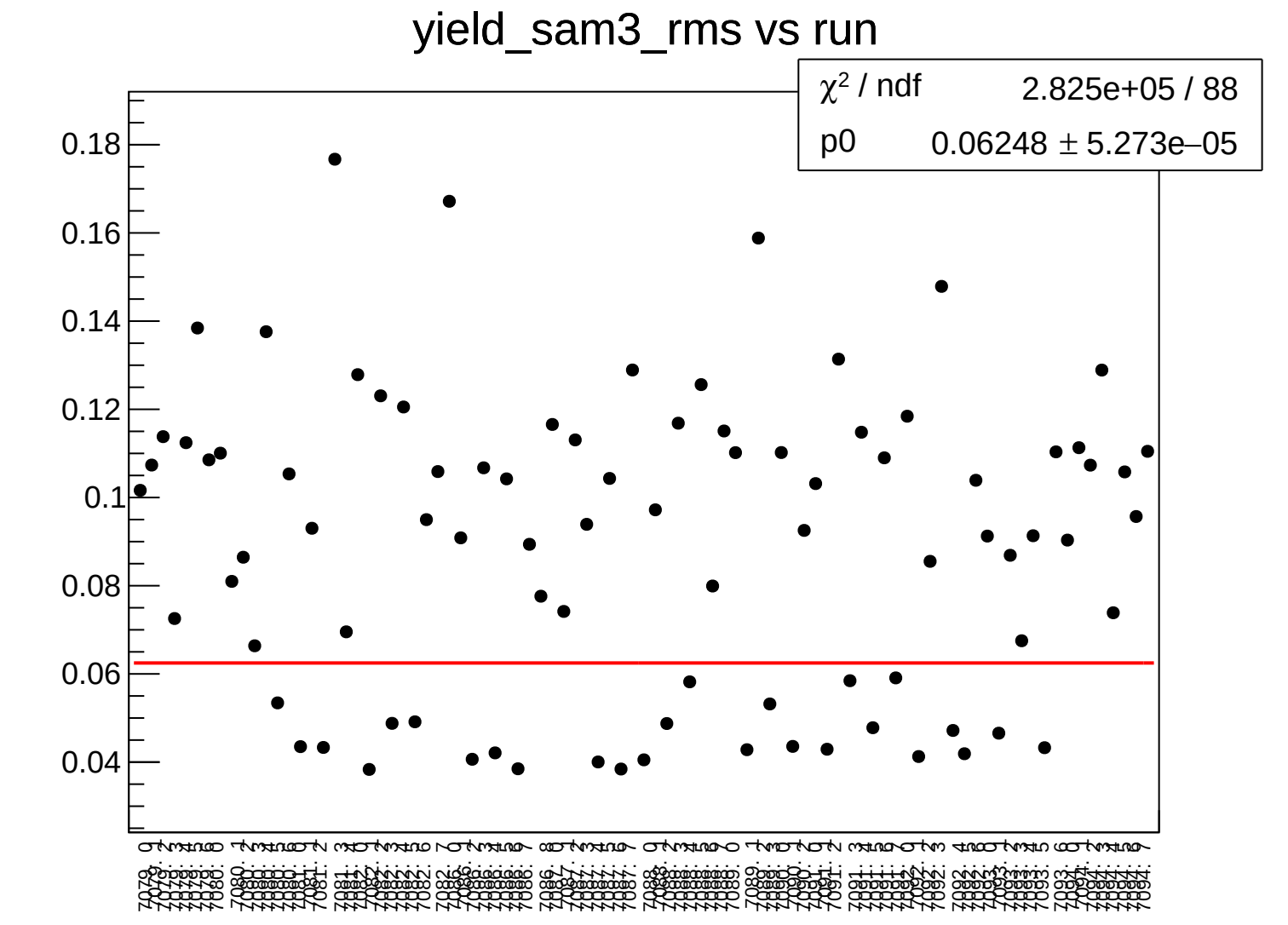

yield_sam2_mean vs run
χ² / ndf 2.642e+05 / 88
p0 25.08 ± 0.0001236
25.25
25.2
25.15
25.1
25.05
25
24.95
24.9
24.85
pull
Entries 89
Mean 10.8
Std Dev 0
100
50
0
−50
−100

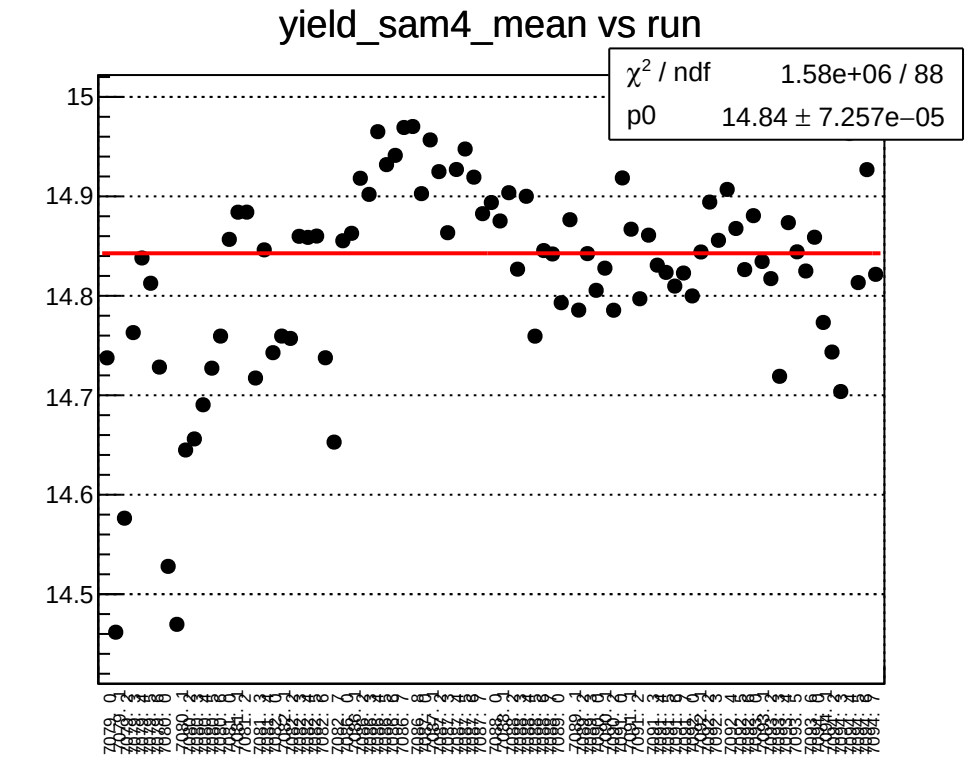

pull1D
Entries 89
Mean −0.954
Std Dev 4.625
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

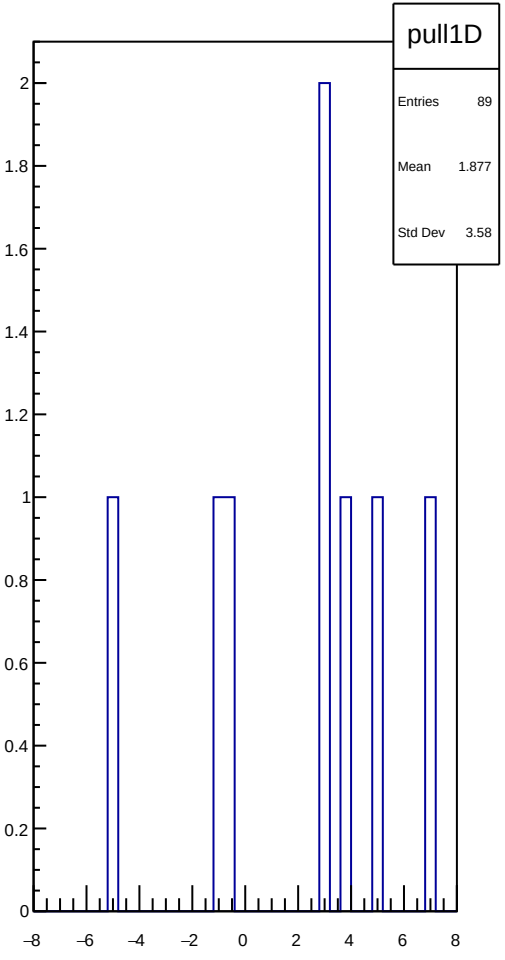

yield_sam2_rms vs run
χ² / ndf 2.029e+05 / 88
p0 0.1064 ± 8.739e−05
0.3
0.25
0.2
0.15
0.1
0.05

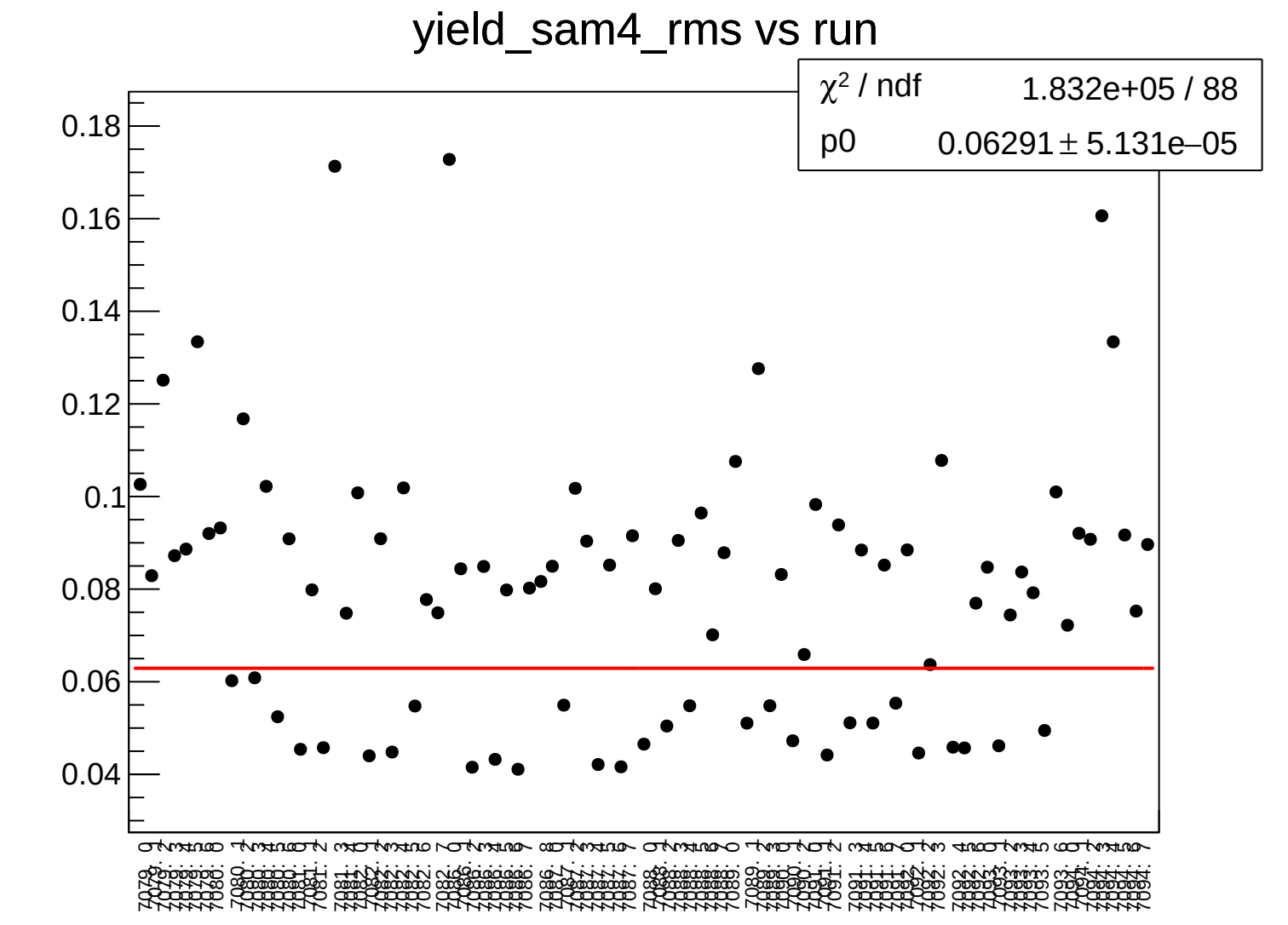

yield_sam3_mean vs run
χ² / ndf 8.128e+05 / 88
p0 28.5 ± 7.458e−05
28.65
28.6
28.55
28.5
28.45
28.4
28.35
28.3
28.25
28.2
pull
Entries 89
Mean 24.45
Std Dev 40.42
200
100
0
−100
−200

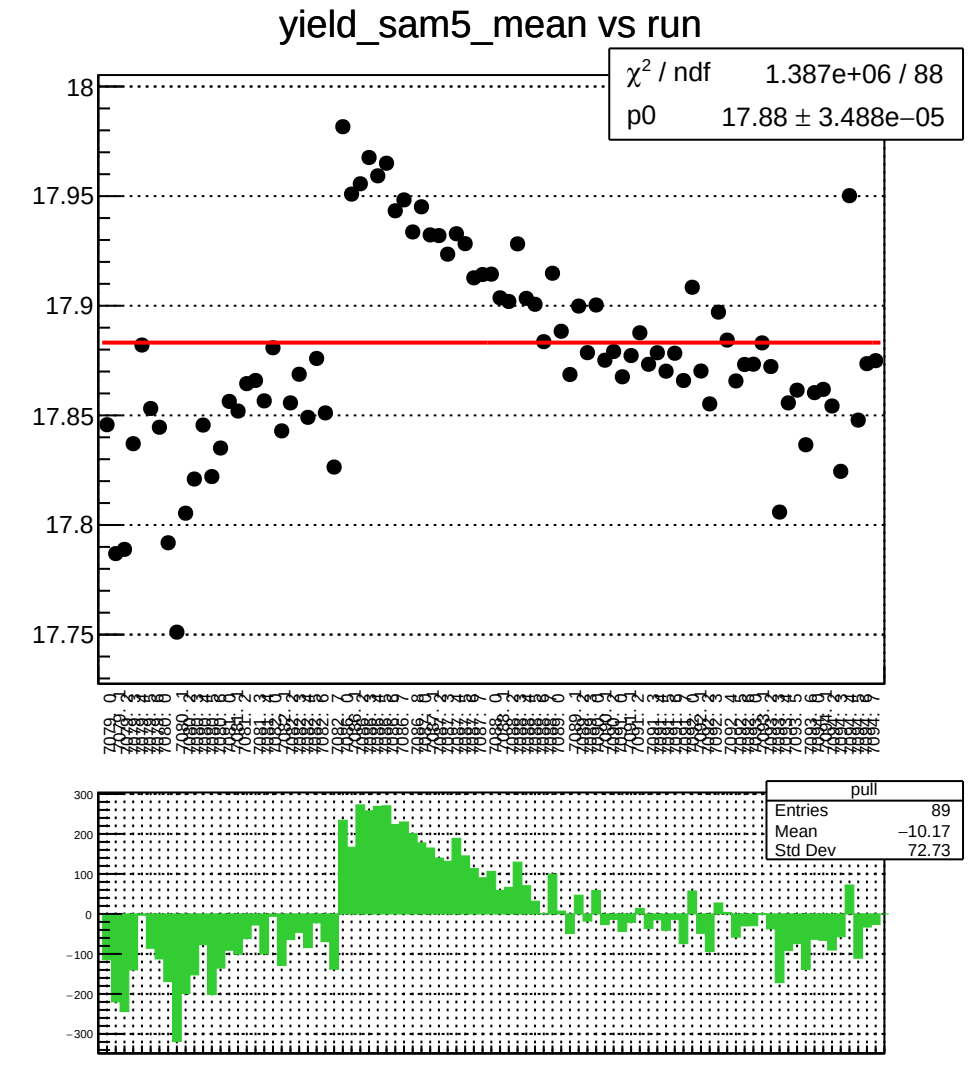

pull1D
Entries 89
Mean 0.2321
Std Dev 3.873
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

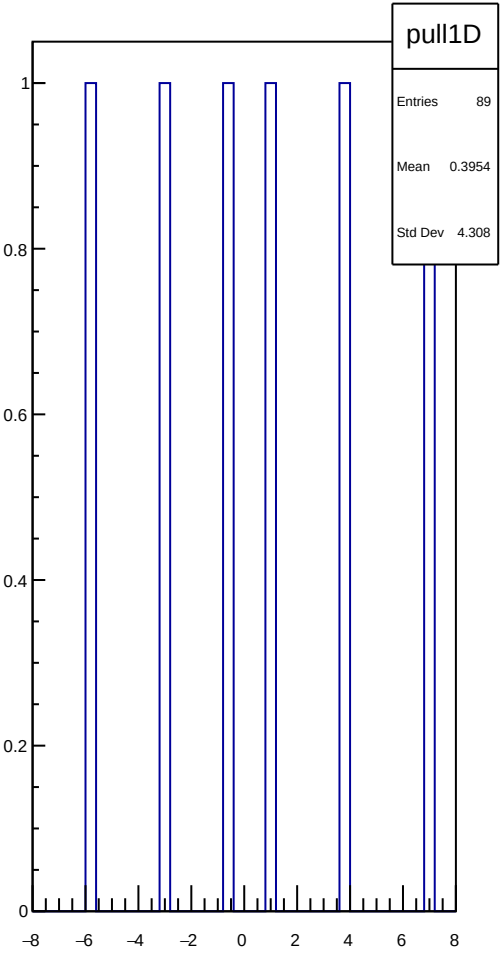

yield_sam3_rms vs run
χ² / ndf 2.825e+05 / 88
p0 0.06248 ± 5.273e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

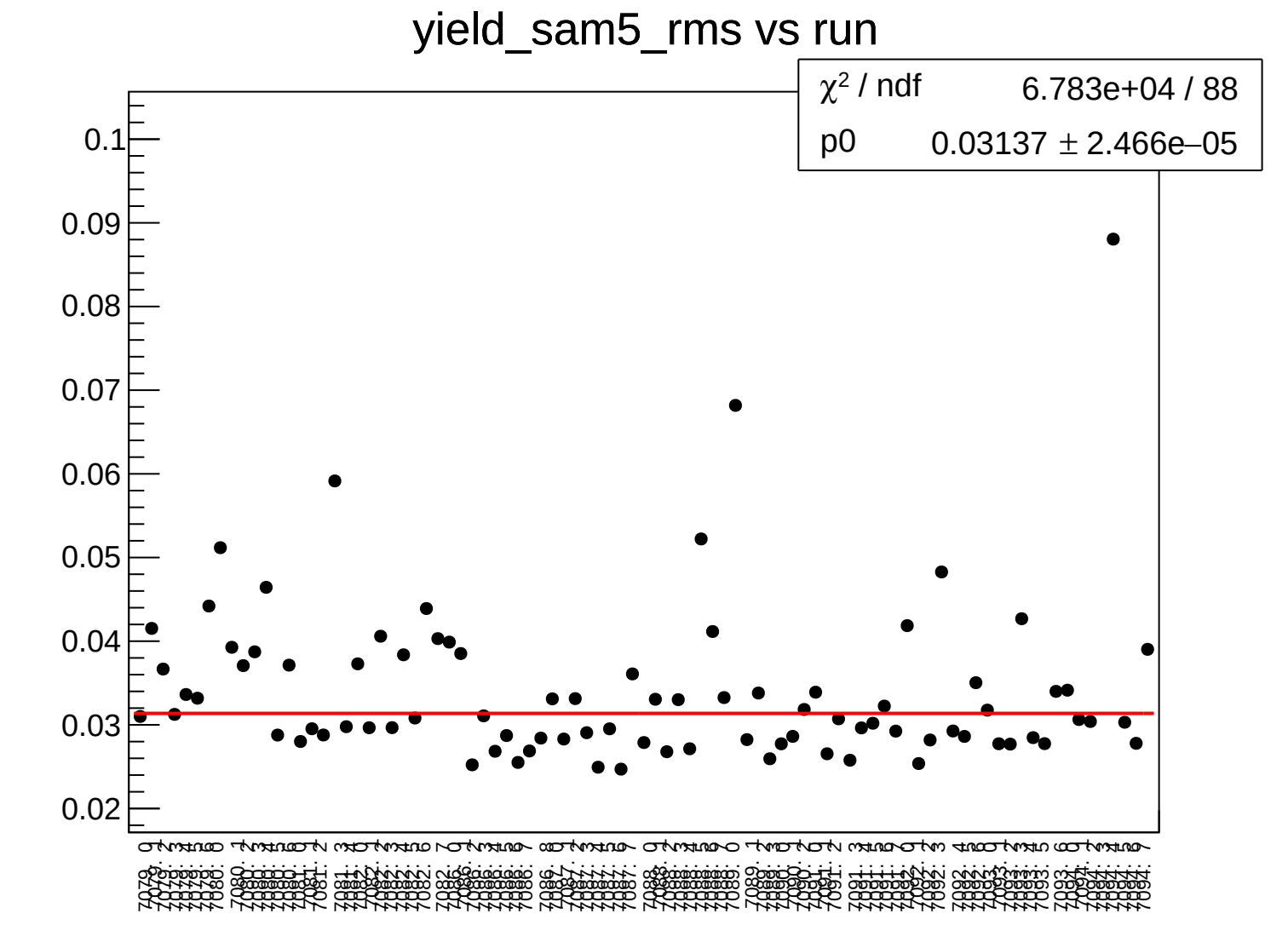

yield_sam4_mean vs run
χ² / ndf 1.58e+06 / 88
p0 14.84 ± 7.257e−05
15
14.9
14.8
14.7
14.6
14.5
pull
Entries 89
Mean −28.7
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600

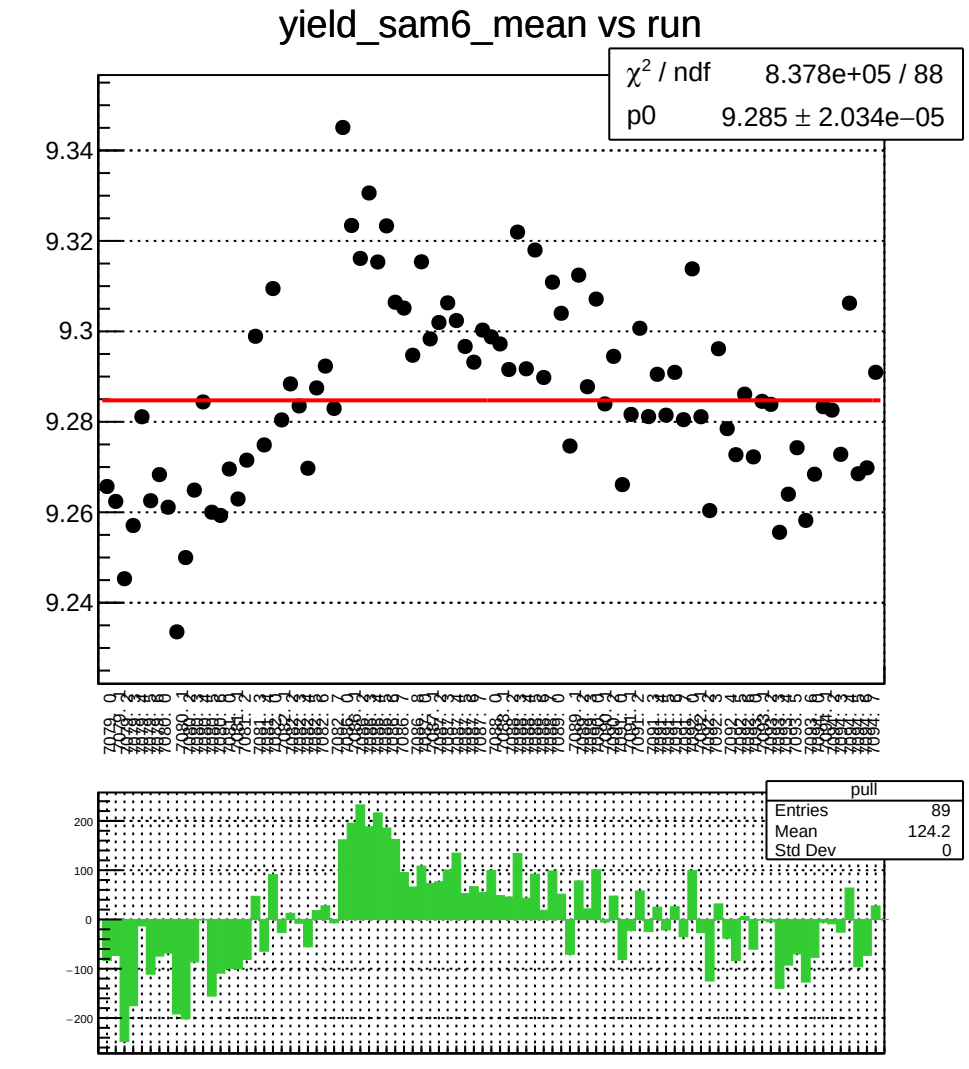

pull1D
Entries 89
Mean 1.877
Std Dev 3.58
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

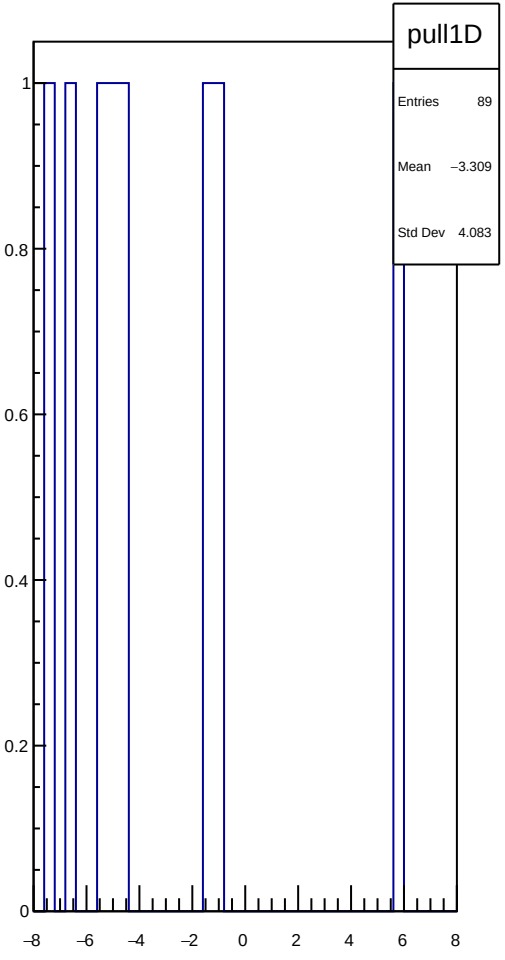

yield_sam4_rms vs run
χ² / ndf 1.832e+05 / 88
p0 0.06291 ± 5.131e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

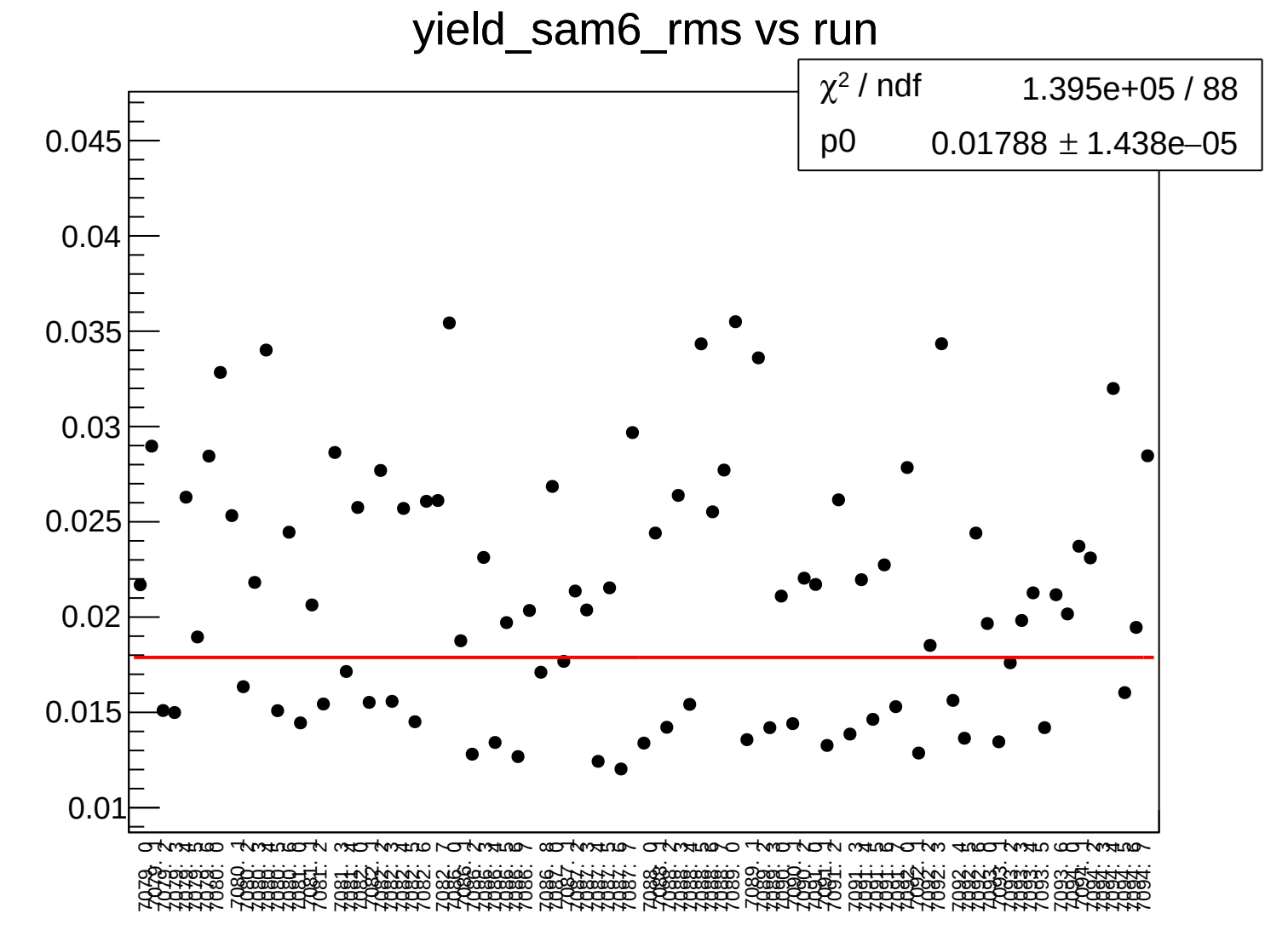

yield_sam5_mean vs run
χ² / ndf 1.387e+06 / 88
p0 17.88 ± 3.488e−05
18
17.95
17.9
17.85
17.8
17.75
pull
Entries 89
Mean −10.17
Std Dev 72.73
300
200
100
0
−100
−200
−300

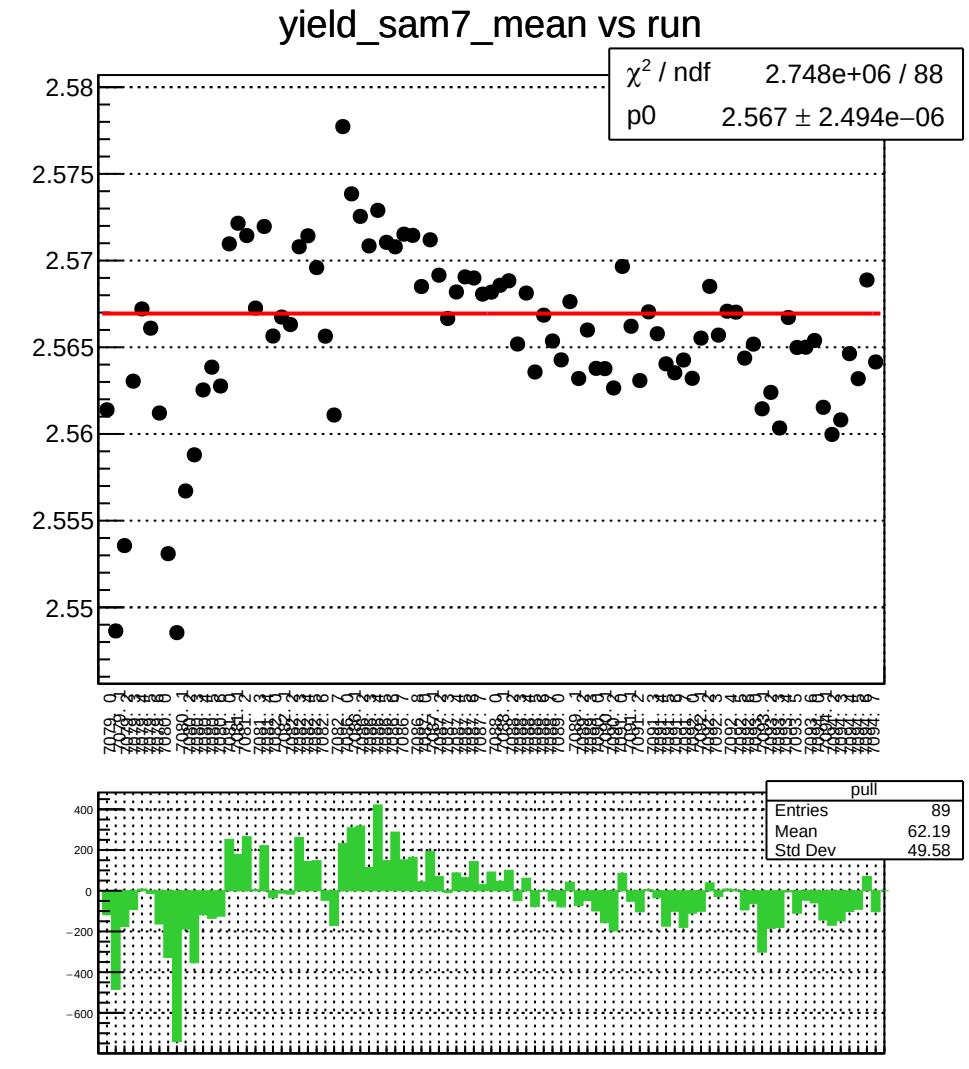

pull1D
Entries 89
Mean 0.3954
Std Dev 4.308
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

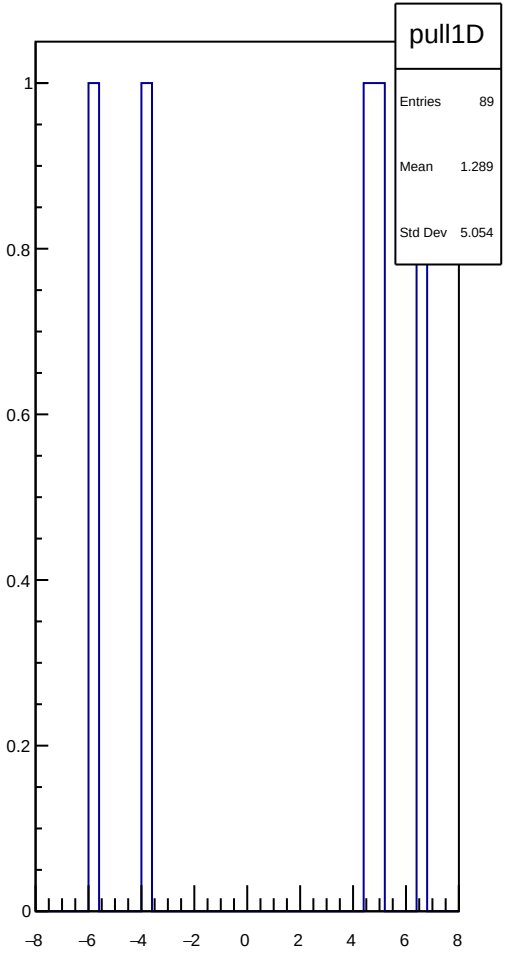

yield_sam5_rms vs run
χ² / ndf 6.783e+04 / 88
p0 0.03137 ± 2.466e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

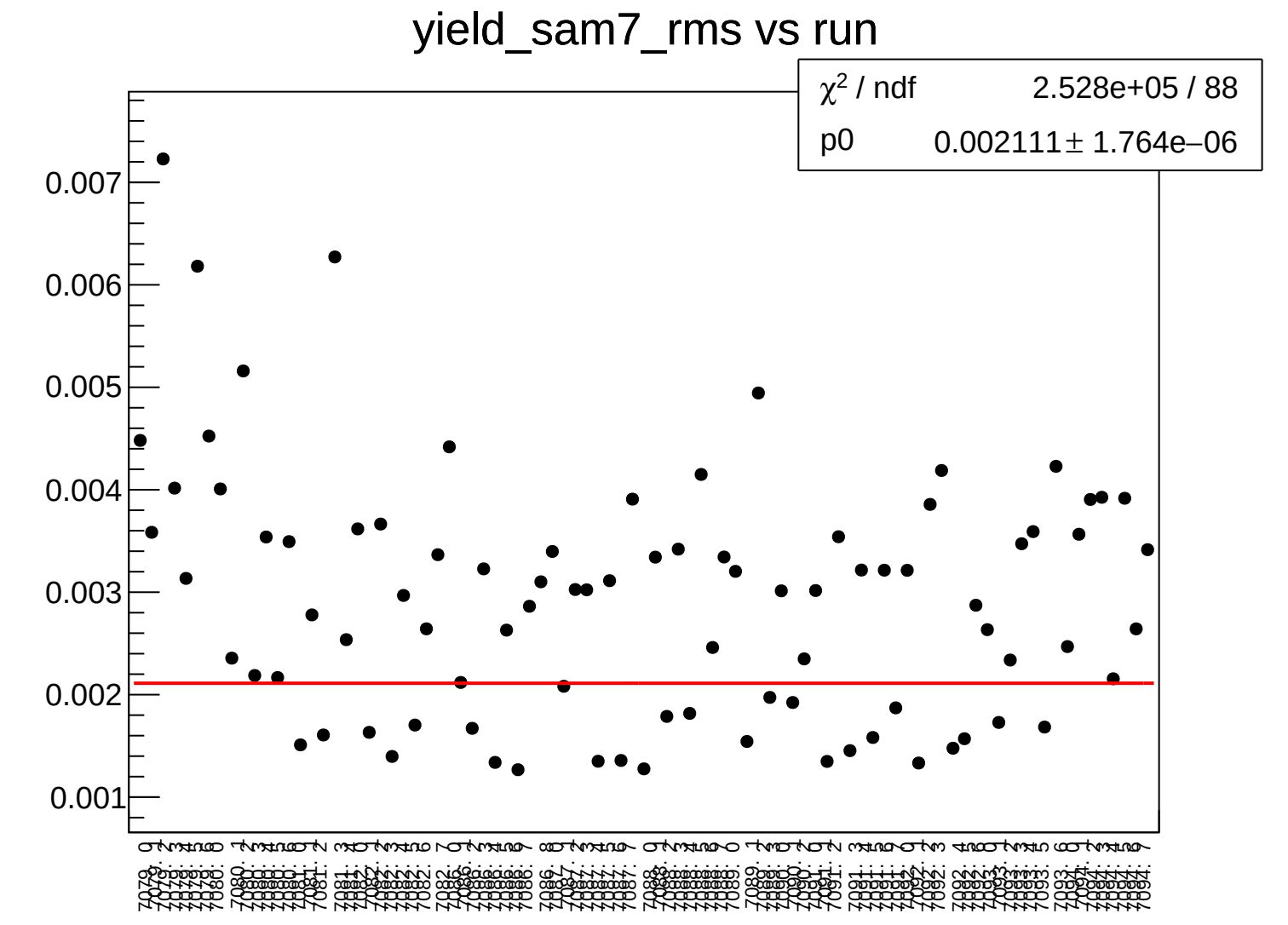

yield_sam6_mean vs run
χ² / ndf 8.378e+05 / 88
p0 9.285 ± 2.034e−05
9.34
9.32
9.3
9.28
9.26
9.24
pull
Entries 89
Mean 124.2
Std Dev 0
200
100
0
−100
−200

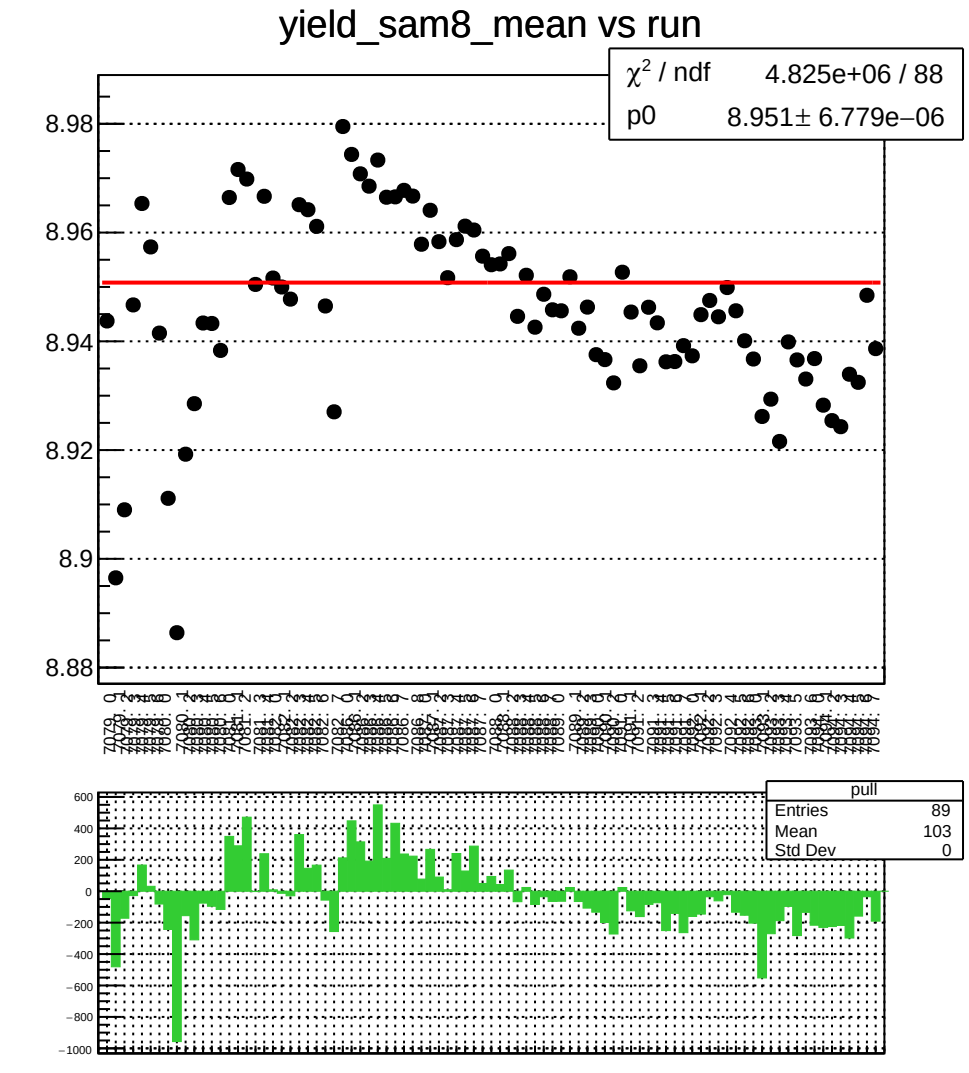

pull1D
Entries 89
Mean −3.309
Std Dev 4.083
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

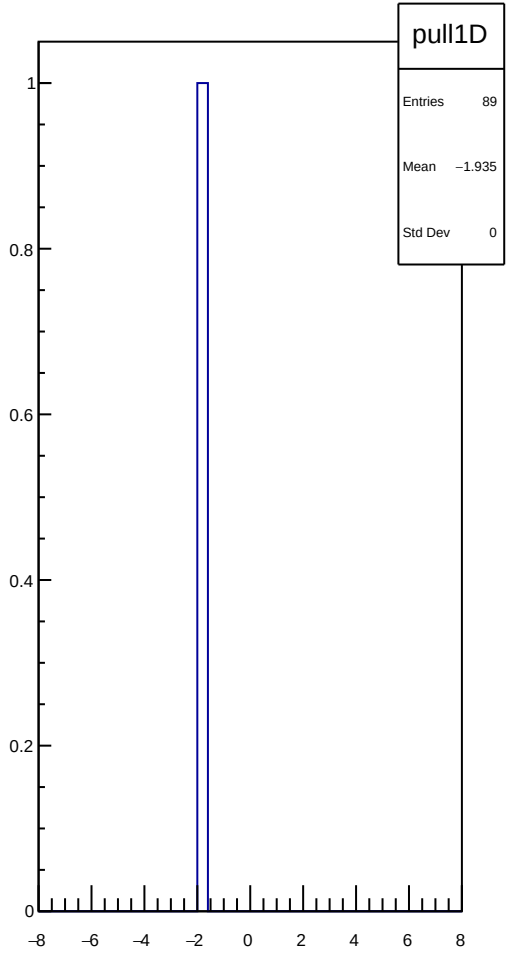

yield_sam6_rms vs run
χ² / ndf 1.395e+05 / 88
p0 0.01788 ± 1.438e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

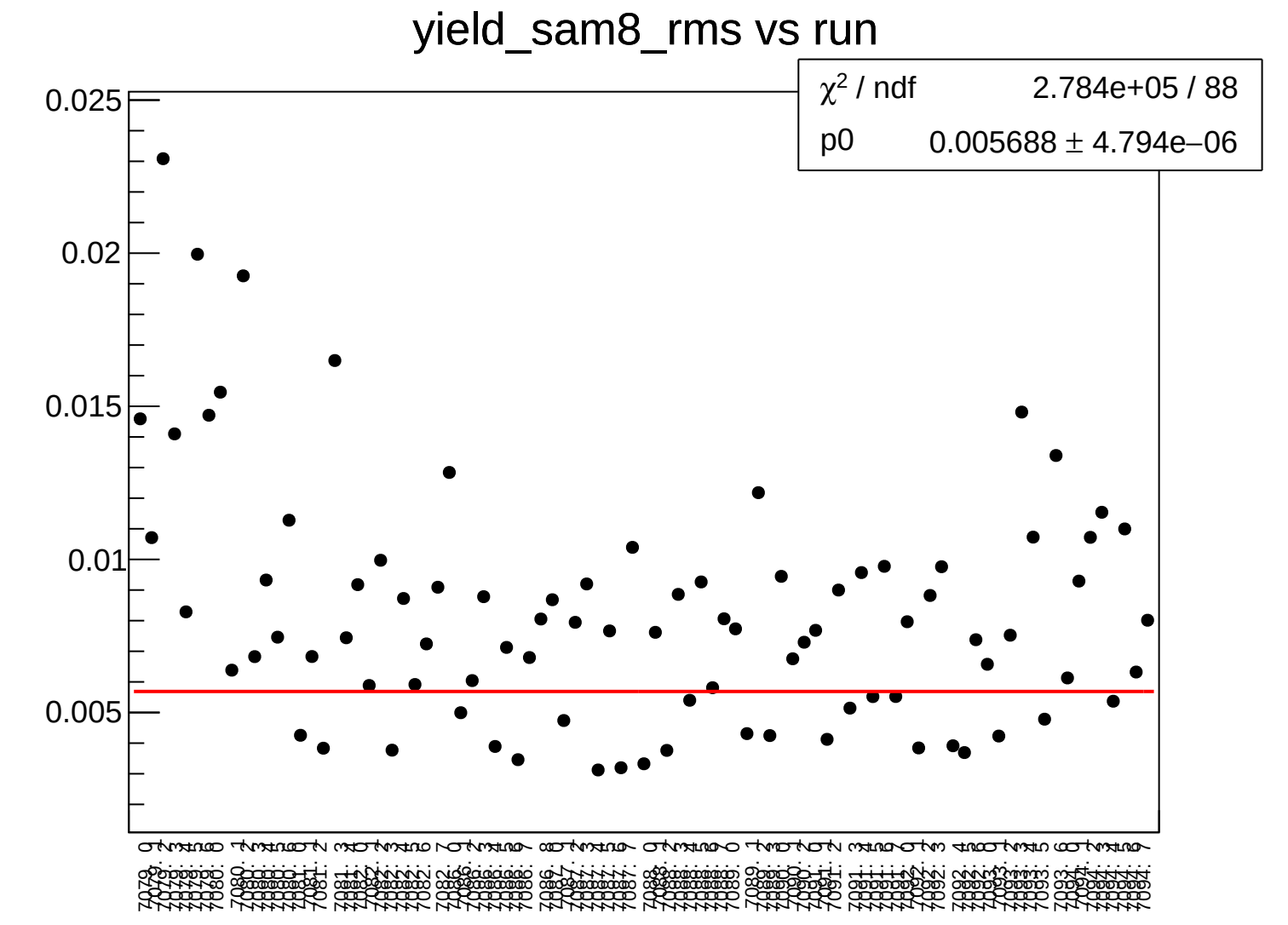

yield_sam7_mean vs run
χ² / ndf 2.748e+06 / 88
p0 2.567 ± 2.494e−06
2.58
2.575
2.57
2.565
2.56
2.555
2.55
pull
Entries 89
Mean 62.19
Std Dev 49.58
400
200
0
−200
−400
−600

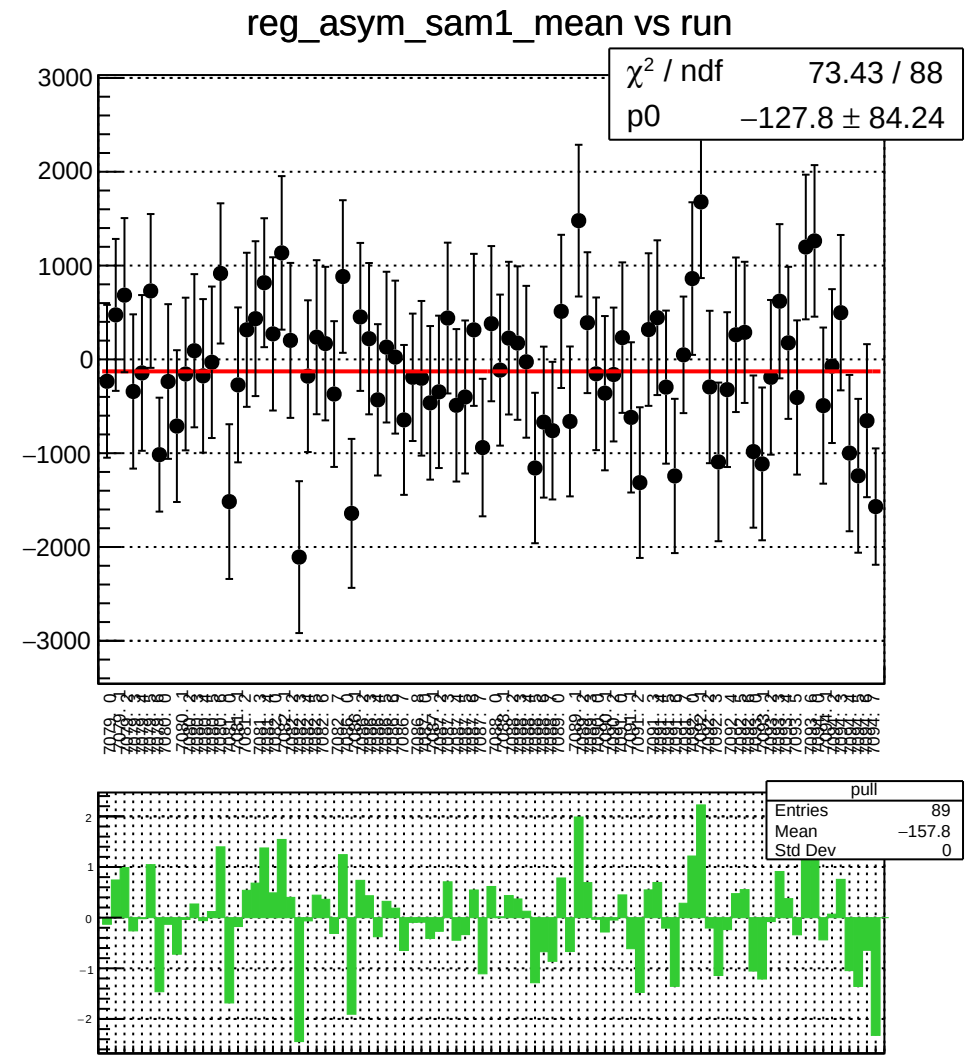

pull1D
Entries 89
Mean 1.289
Std Dev 5.054
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

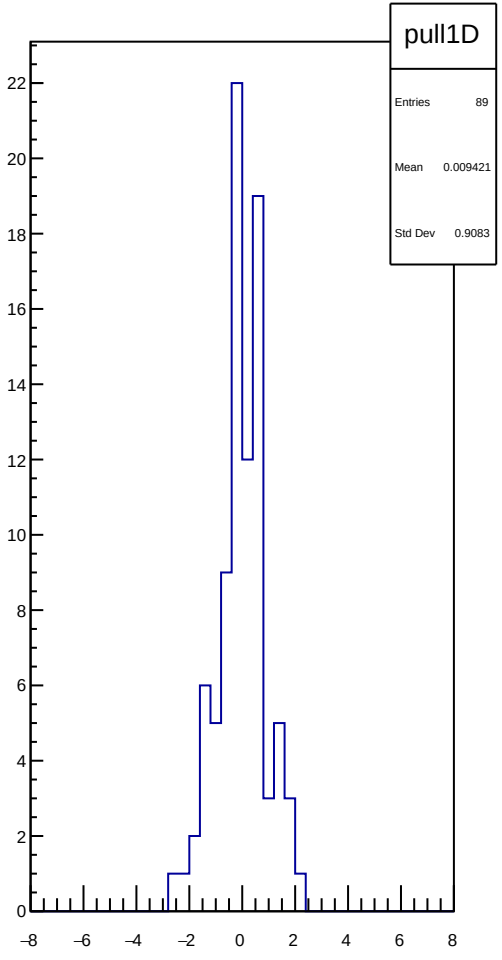

yield_sam7_rms vs run
χ² / ndf 2.528e+05 / 88
p0 0.002111 ± 1.764e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

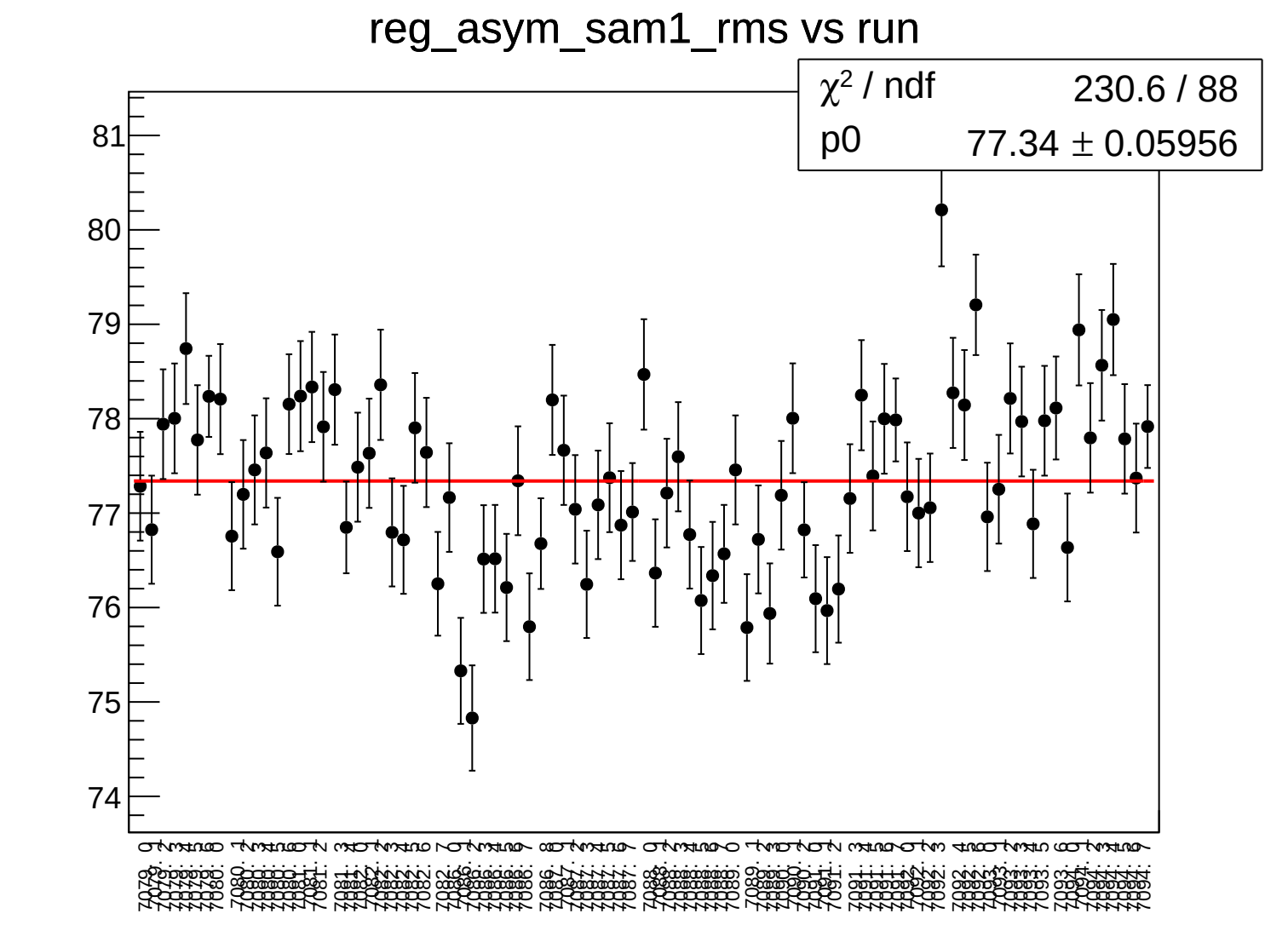

yield_sam8_mean vs run
χ² / ndf 4.825e+06 / 88
p0 8.951± 6.779e−06
8.98
8.96
8.94
8.92
8.9
8.88
pull
Entries 89
Mean 103
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

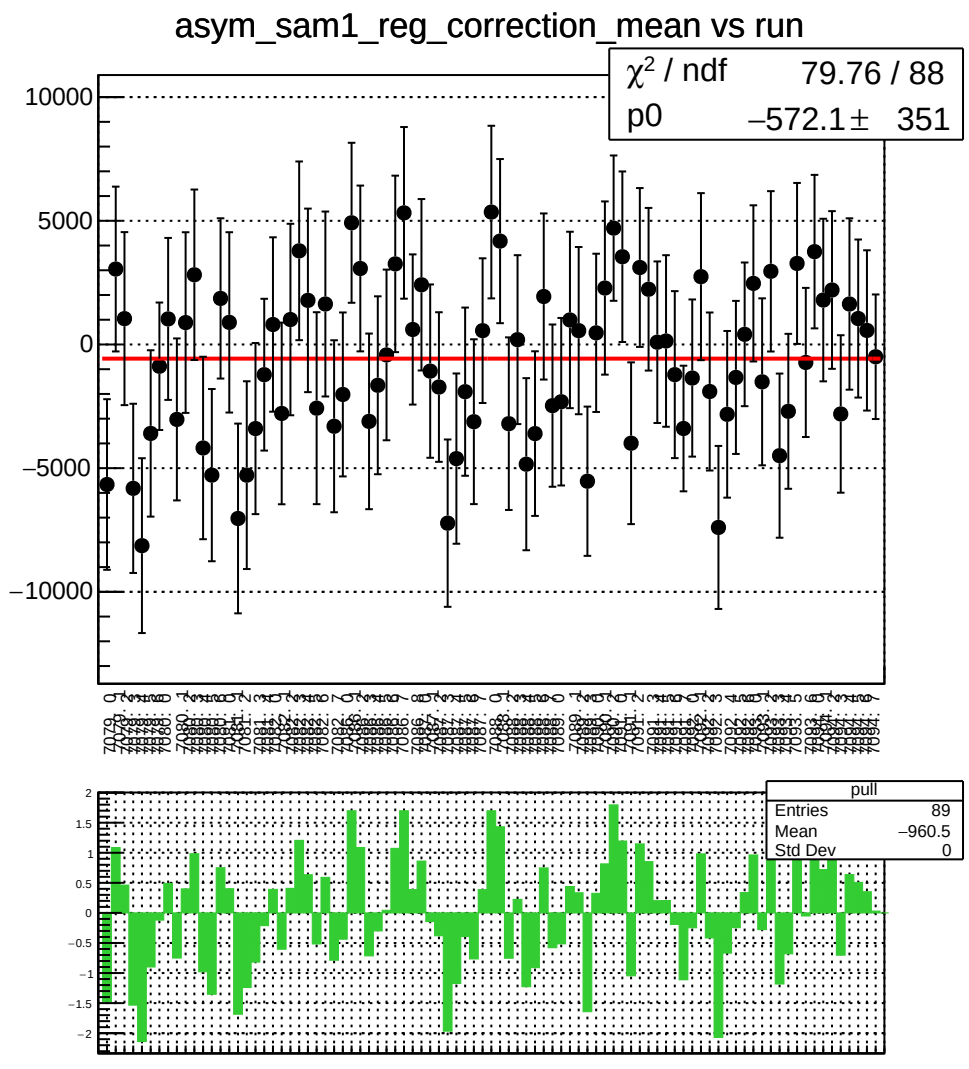

pull1D
Entries 89
Mean −1.935
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

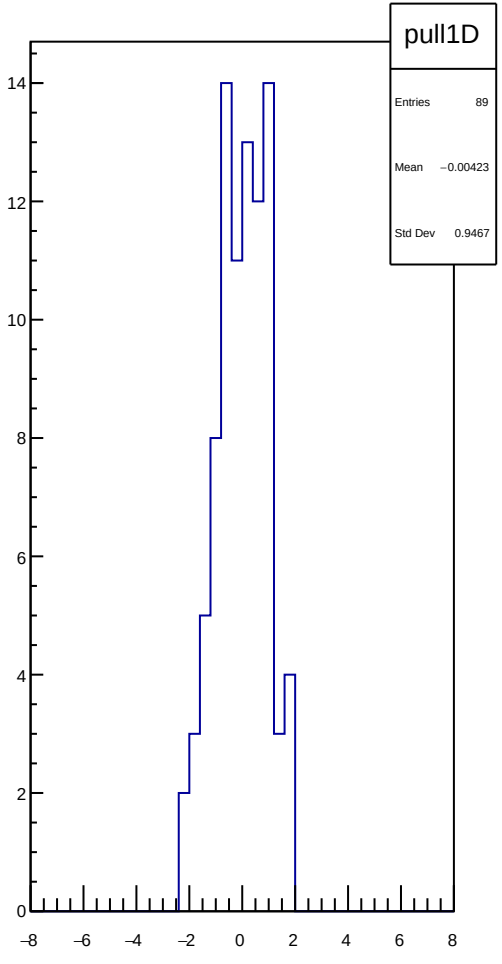

yield_sam8_rms vs run
χ^2 / ndf 2.784e+05 / 88
p0 0.005688 ± 4.794e−06
0.025
0.02
0.015
0.01
0.005

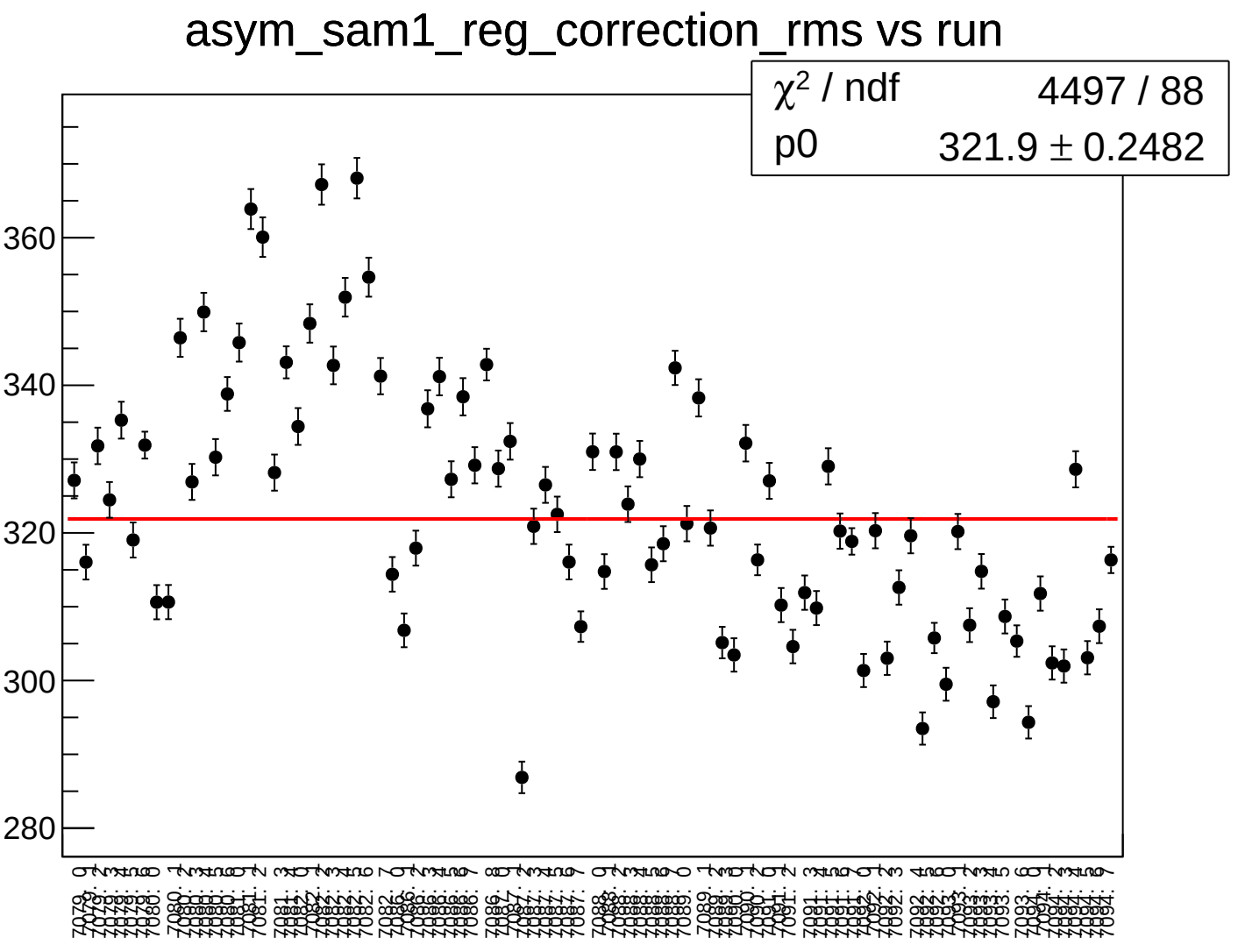

reg_asym_sam1_mean vs run
χ² / ndf 73.43 / 88
p0 −127.8 ± 84.24
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −157.8
Std Dev 0
2
1
0
−1
−2

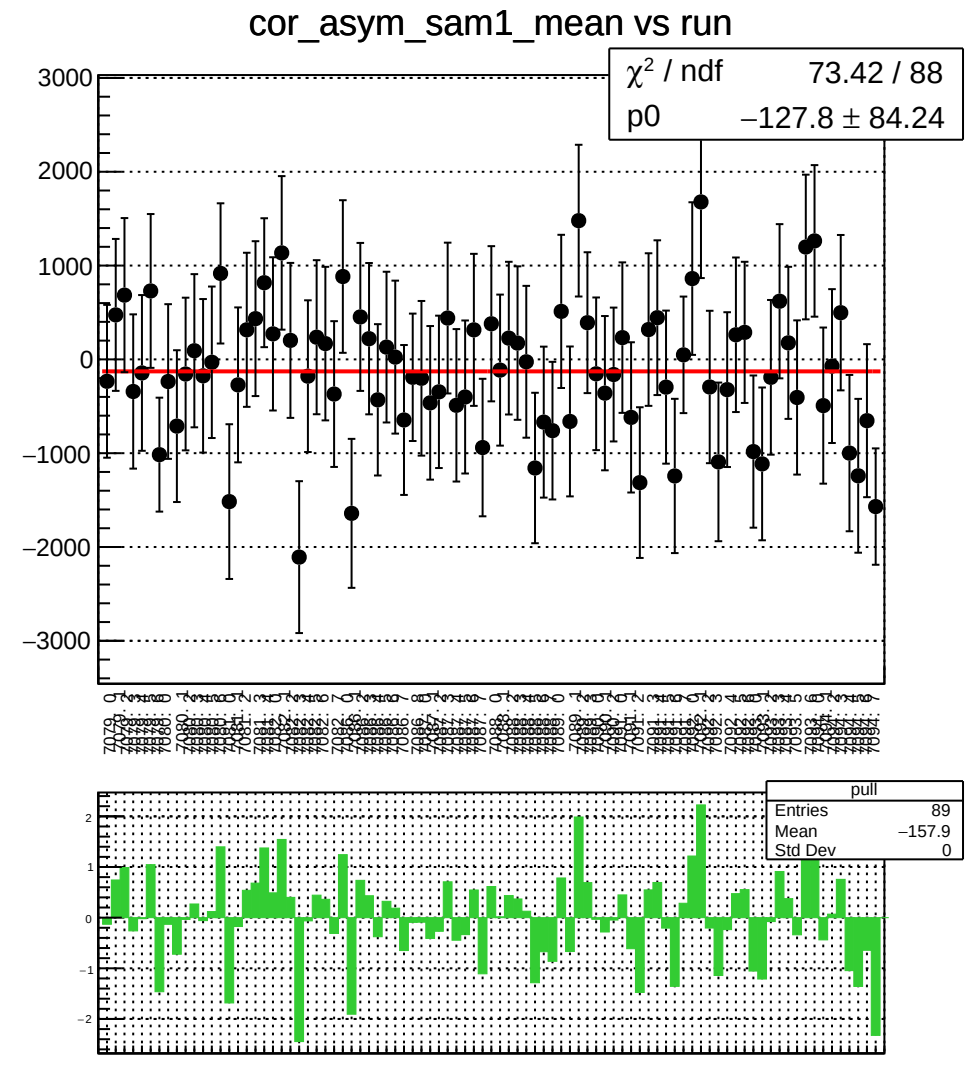

pull1D
Entries 89
Mean 0.009421
Std Dev 0.9083
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

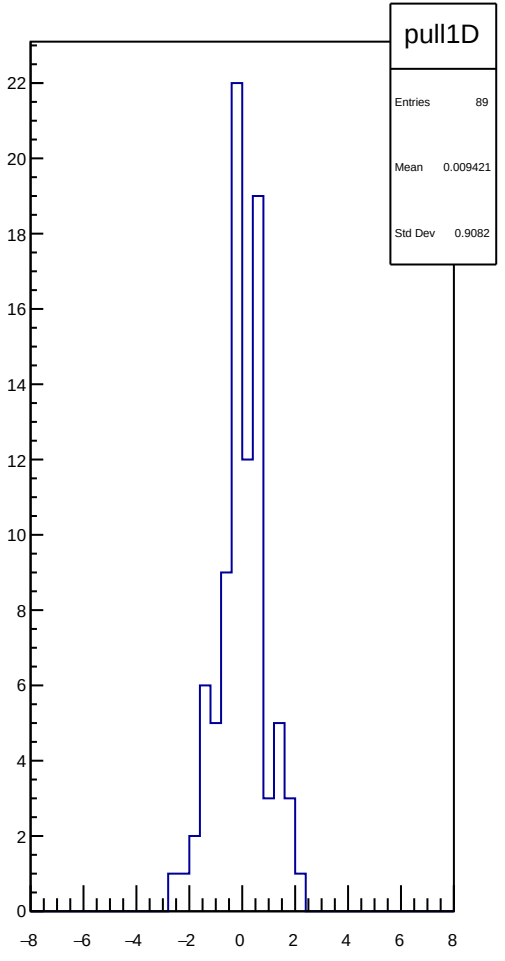

reg_asym_sam1_rms vs run
χ² / ndf 230.6 / 88
p0 77.34 ± 0.05956
81
80
79
78
77
76
75
74

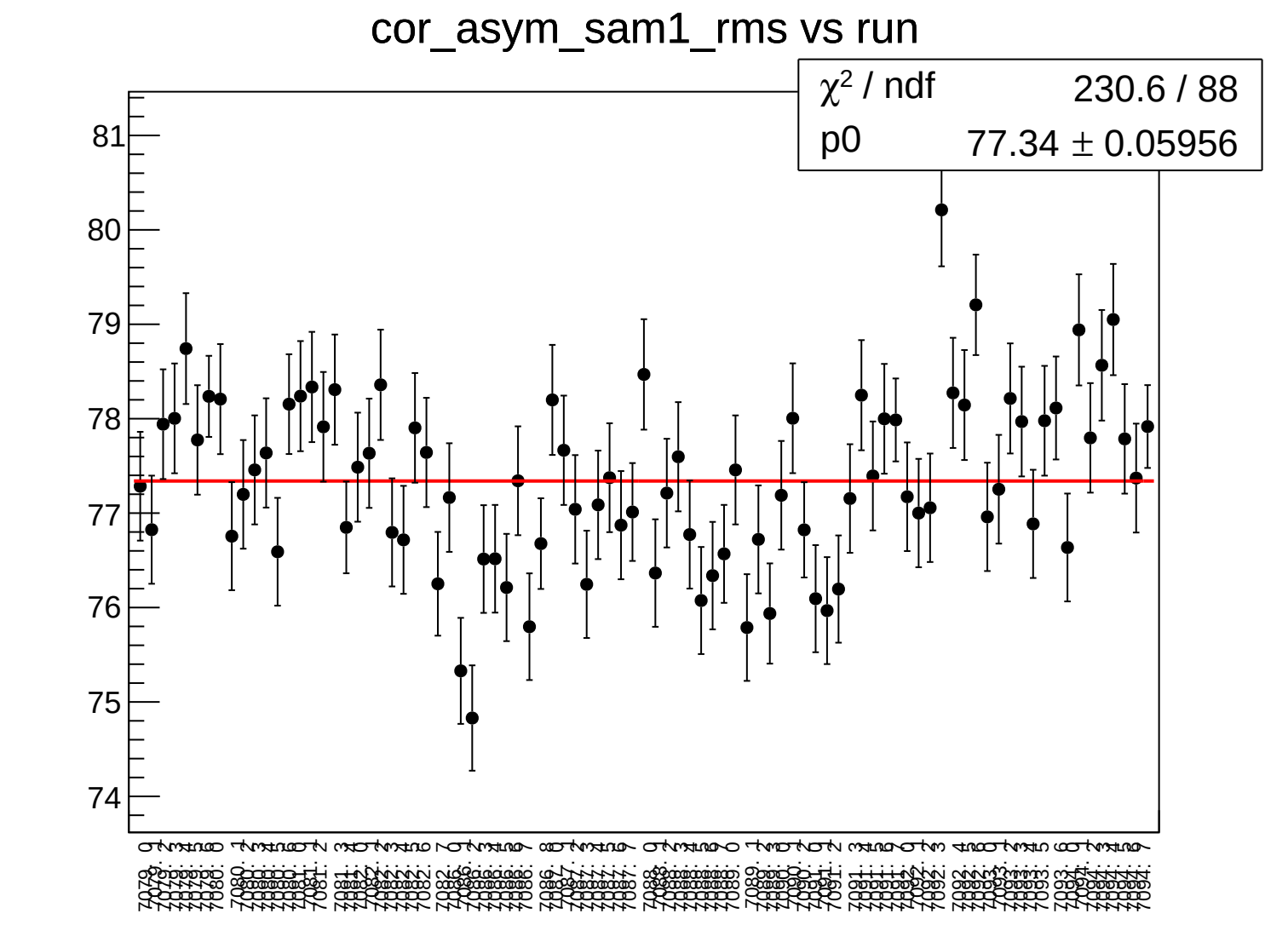

asym_sam1_reg_correction_mean vs run
χ² / ndf 79.76 / 88
p0 −572.1 ± 351
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −960.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

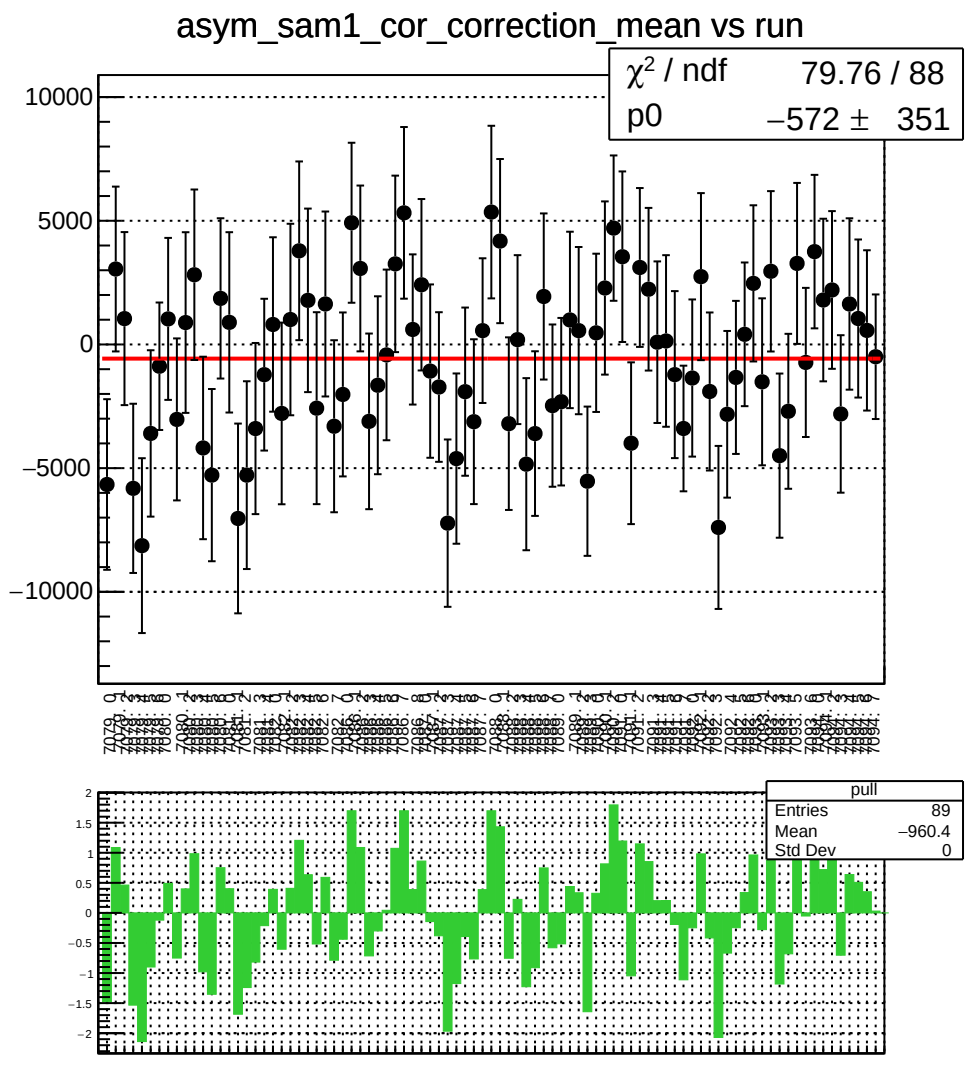

pull1D
Entries 89
Mean −0.00423
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

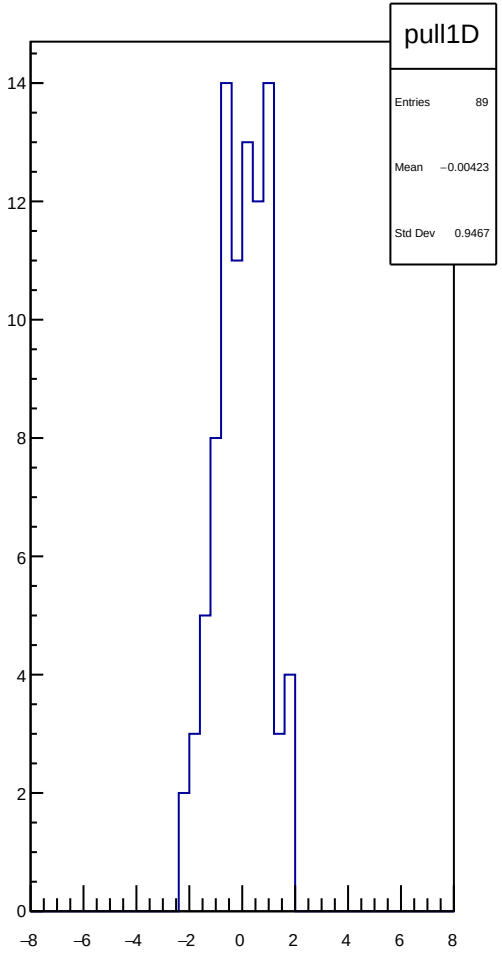

asym_sam1_reg_correction_rms vs run
χ² / ndf 4497 / 88
p0 321.9 ± 0.2482
360
340
320
300
280

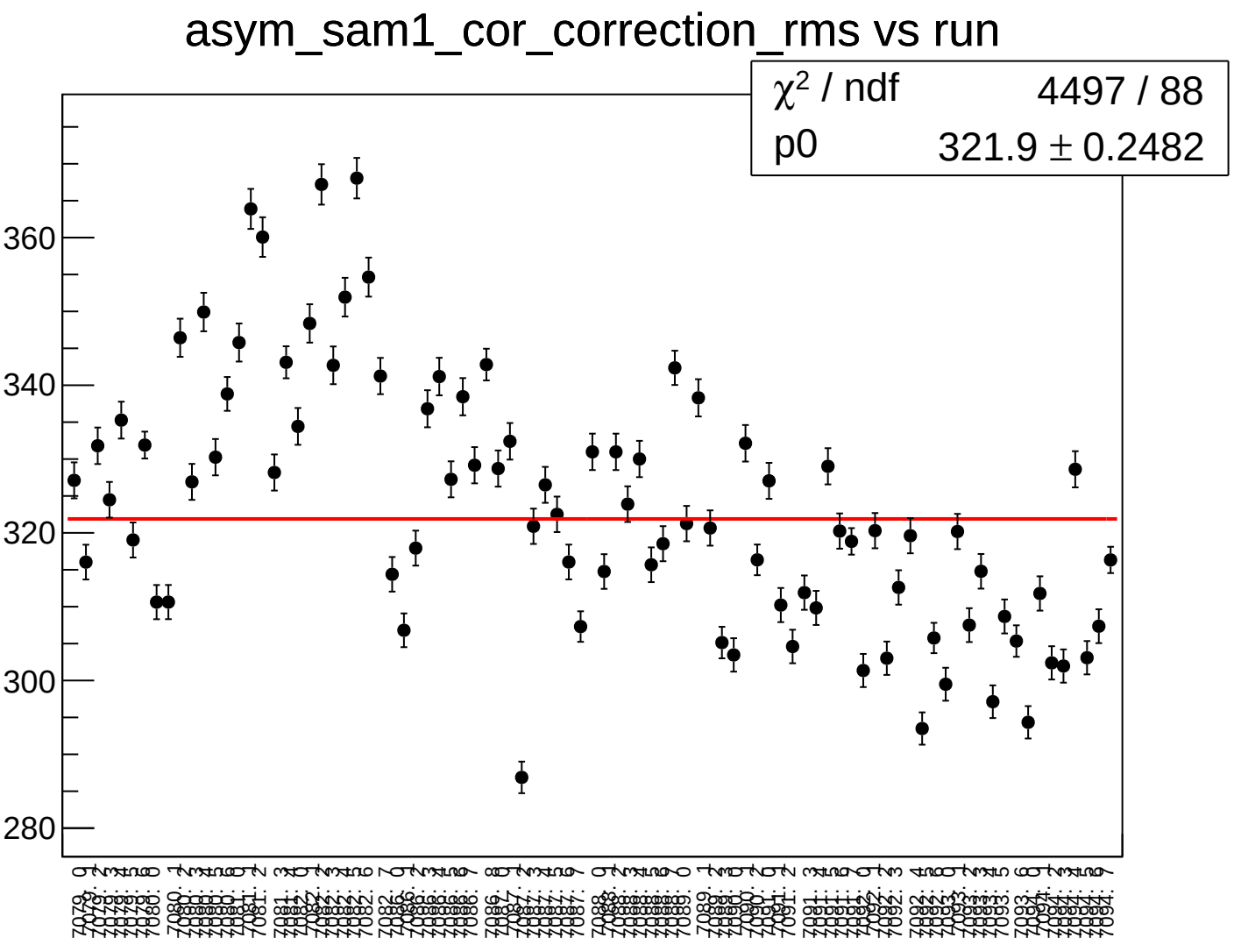

cor_asym_sam1_mean vs run
χ² / ndf 73.42 / 88
p0 −127.8 ± 84.24
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −157.9
Std Dev 0
2
1
0
−1
−2

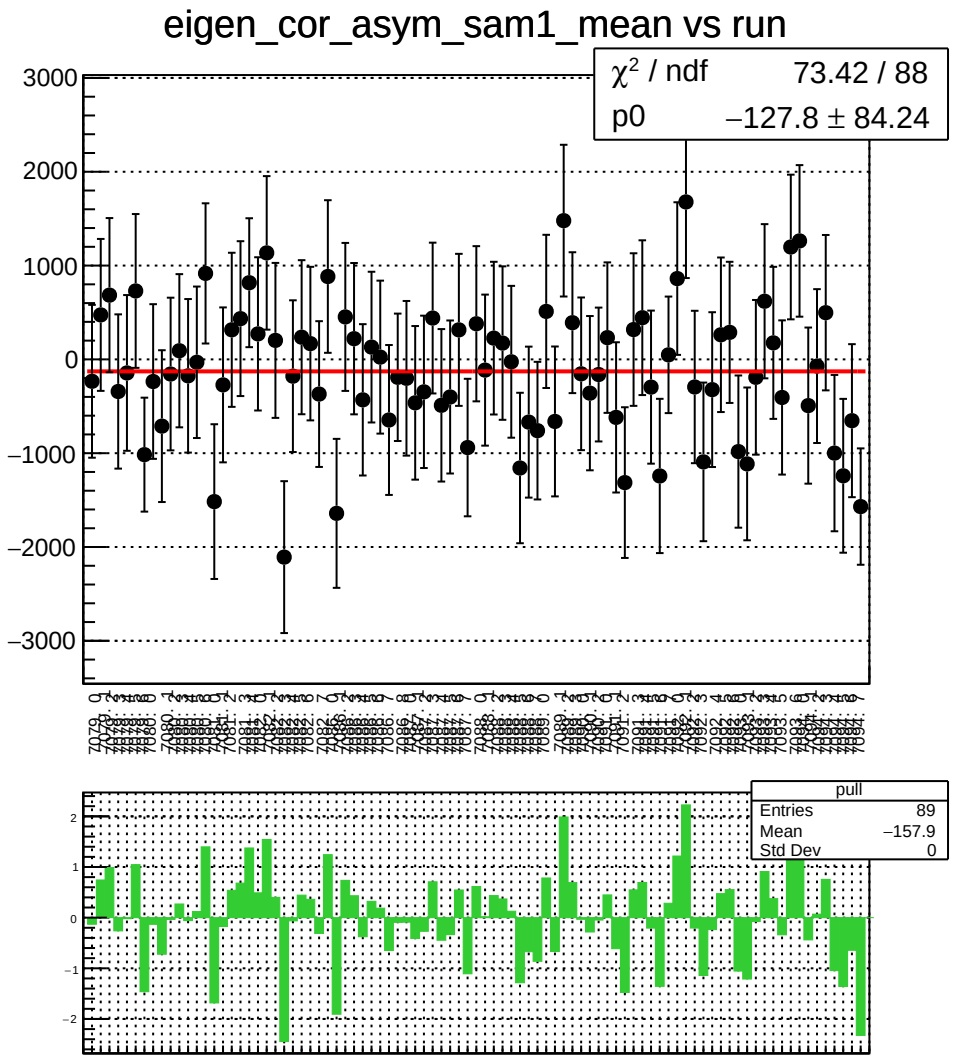

pull1D
Entries 89
Mean 0.009421
Std Dev 0.9082
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

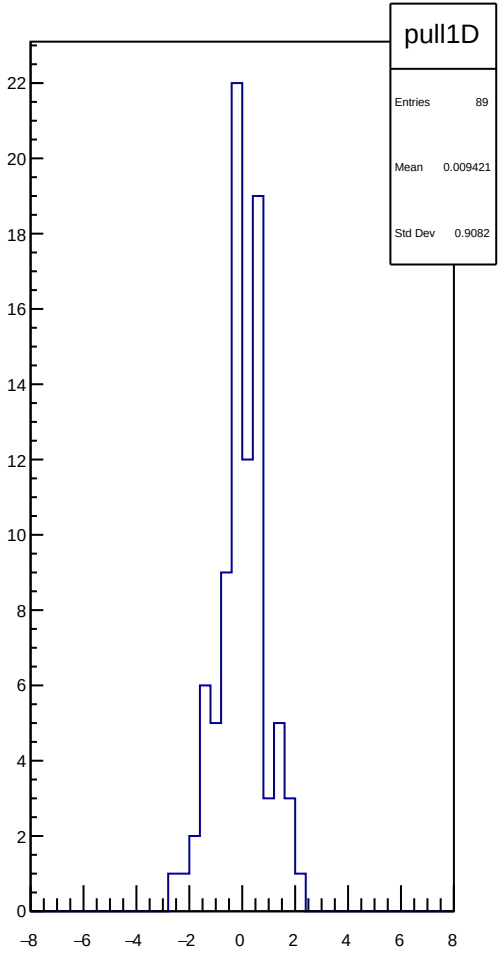

cor_asym_sam1_rms vs run
χ^2 / ndf 230.6 / 88
p0 77.34 ± 0.05956
81
80
79
78
77
76
75
74

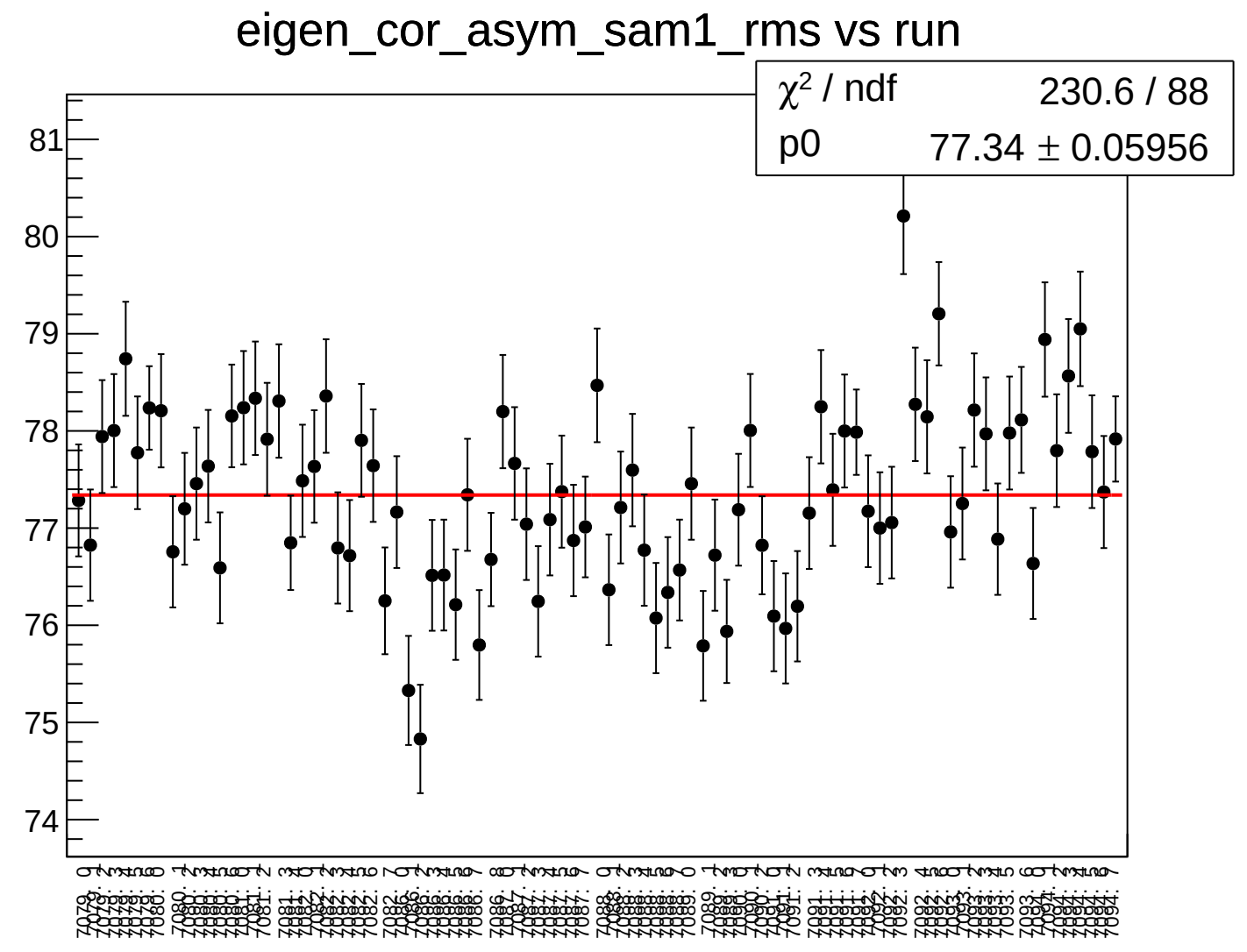

asym_sam1_cor_correction_mean vs run
χ² / ndf 79.76 / 88
p0 −572 ± 351
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −960.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

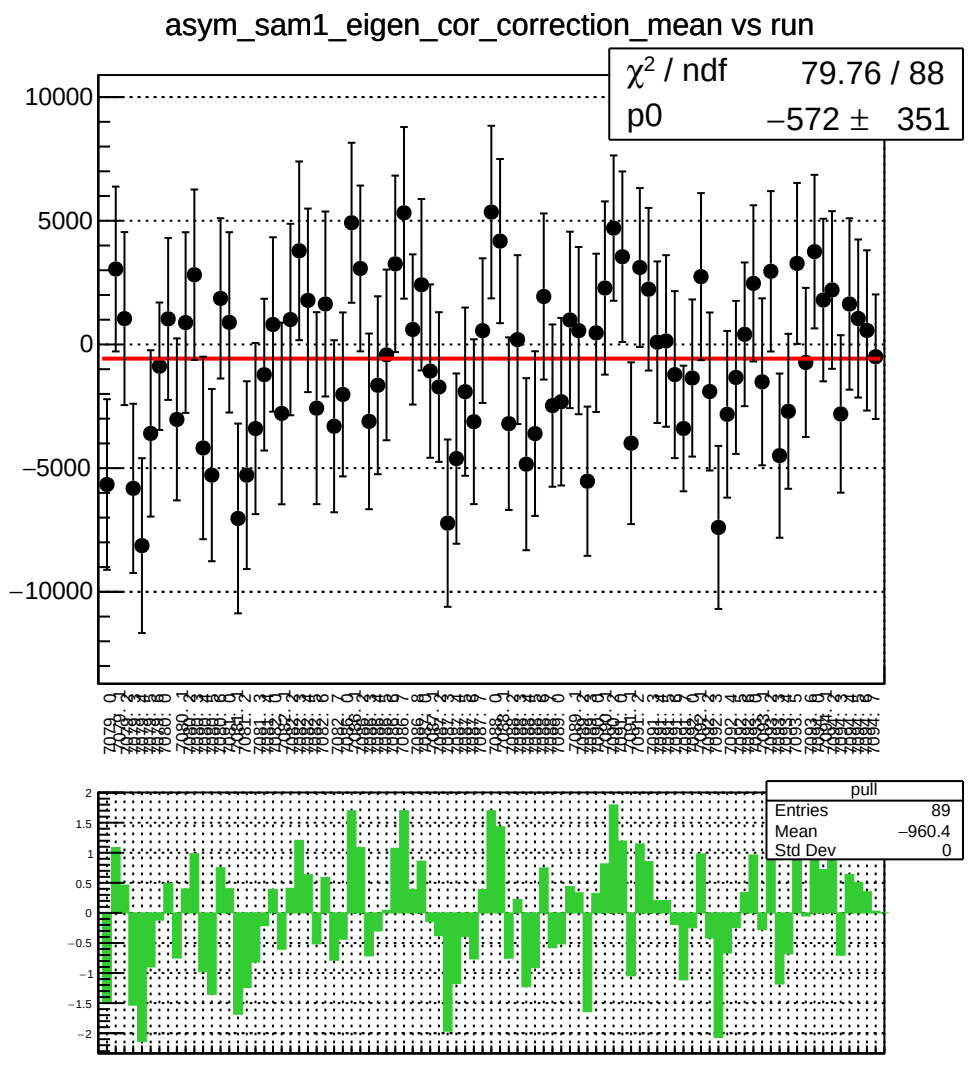

pull1D
Entries 89
Mean −0.00423
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

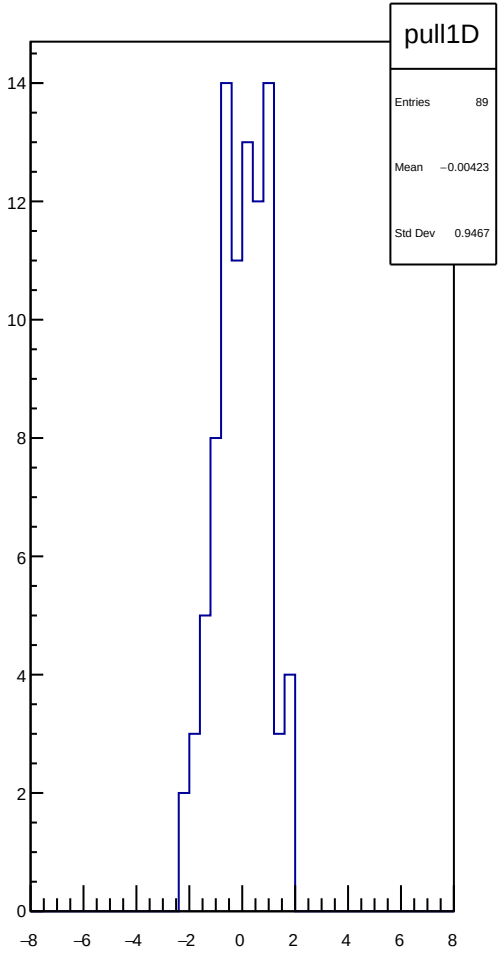

asym_sam1_cor_correction_rms vs run
χ² / ndf 4497 / 88
p0 321.9 ± 0.2482
360
340
320
300
280

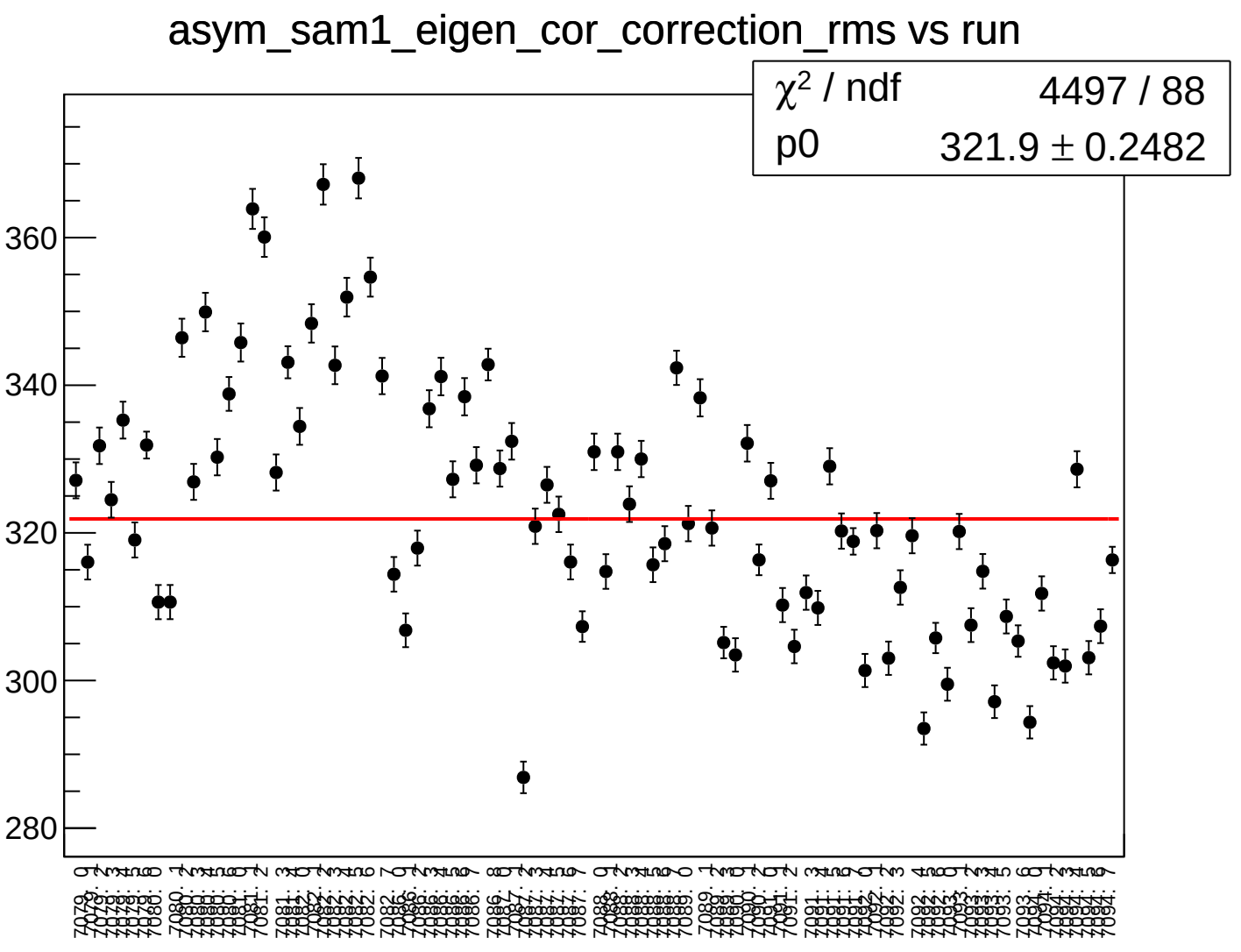

eigen_cor_asym_sam1_mean vs run
χ² / ndf 73.42 / 88
p0 −127.8 ± 84.24
pull
Entries 89
Mean −157.9
Std Dev 0

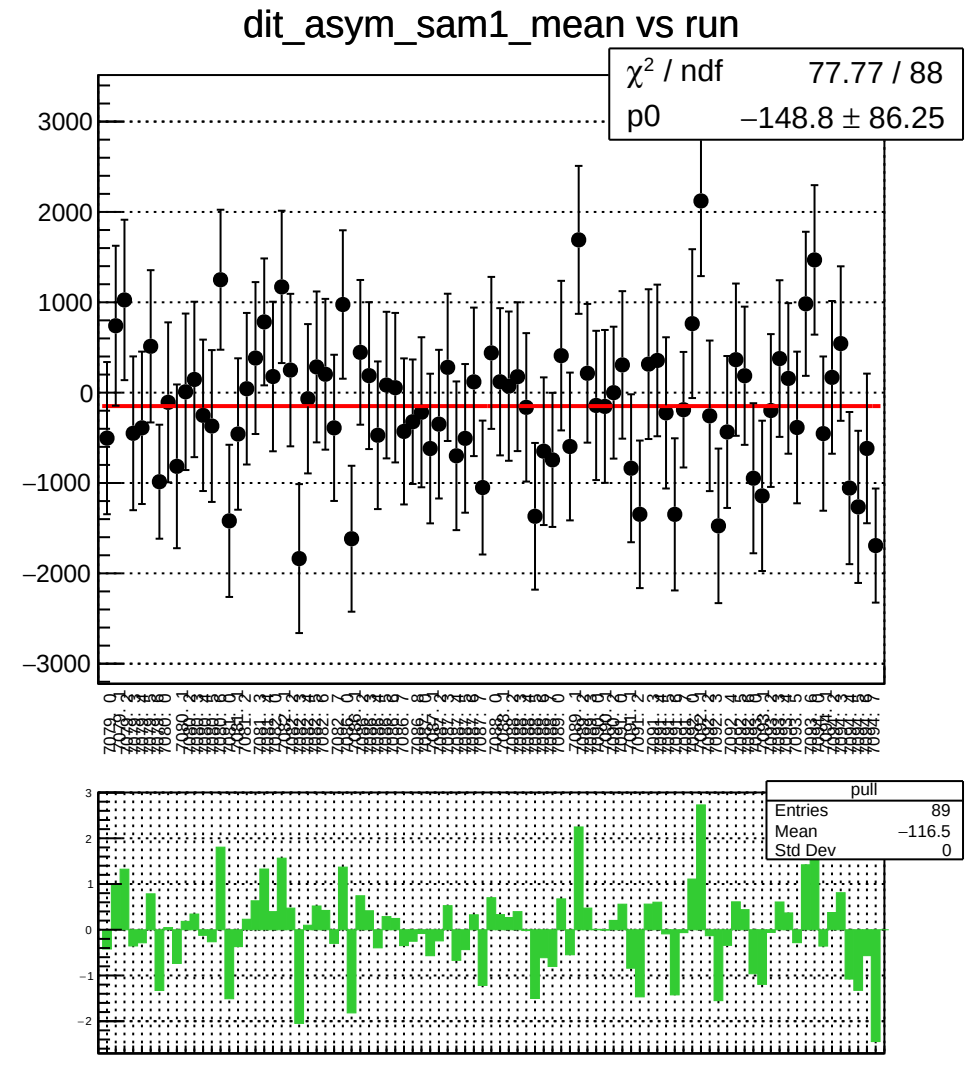

pull1D
Entries 89
Mean 0.009421
Std Dev 0.9082

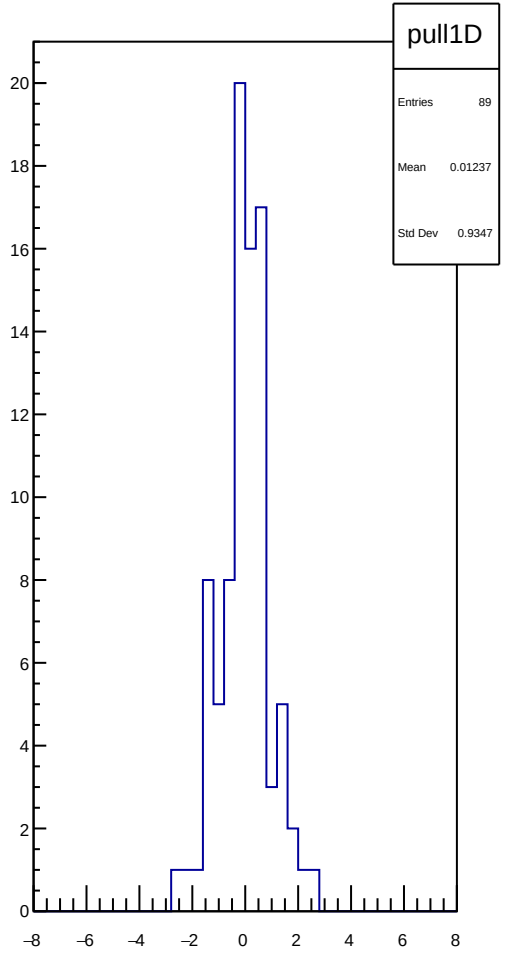

eigen_cor_asym_sam1_rms vs run
χ² / ndf 230.6 / 88
p0 77.34 ± 0.05956
81
80
79
78
77
76
75
74

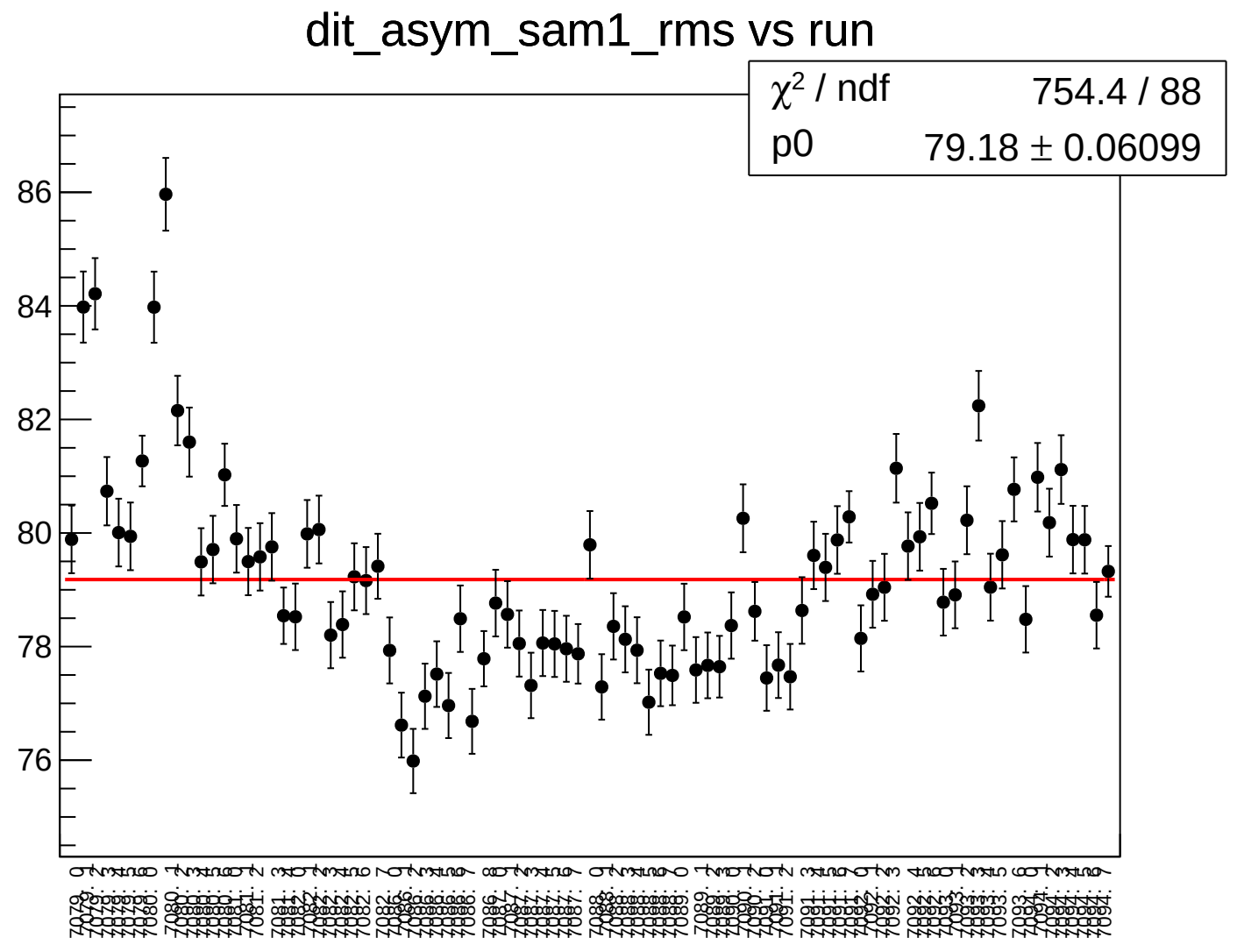

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 79.76 / 88
p0 −572 ± 351
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −960.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

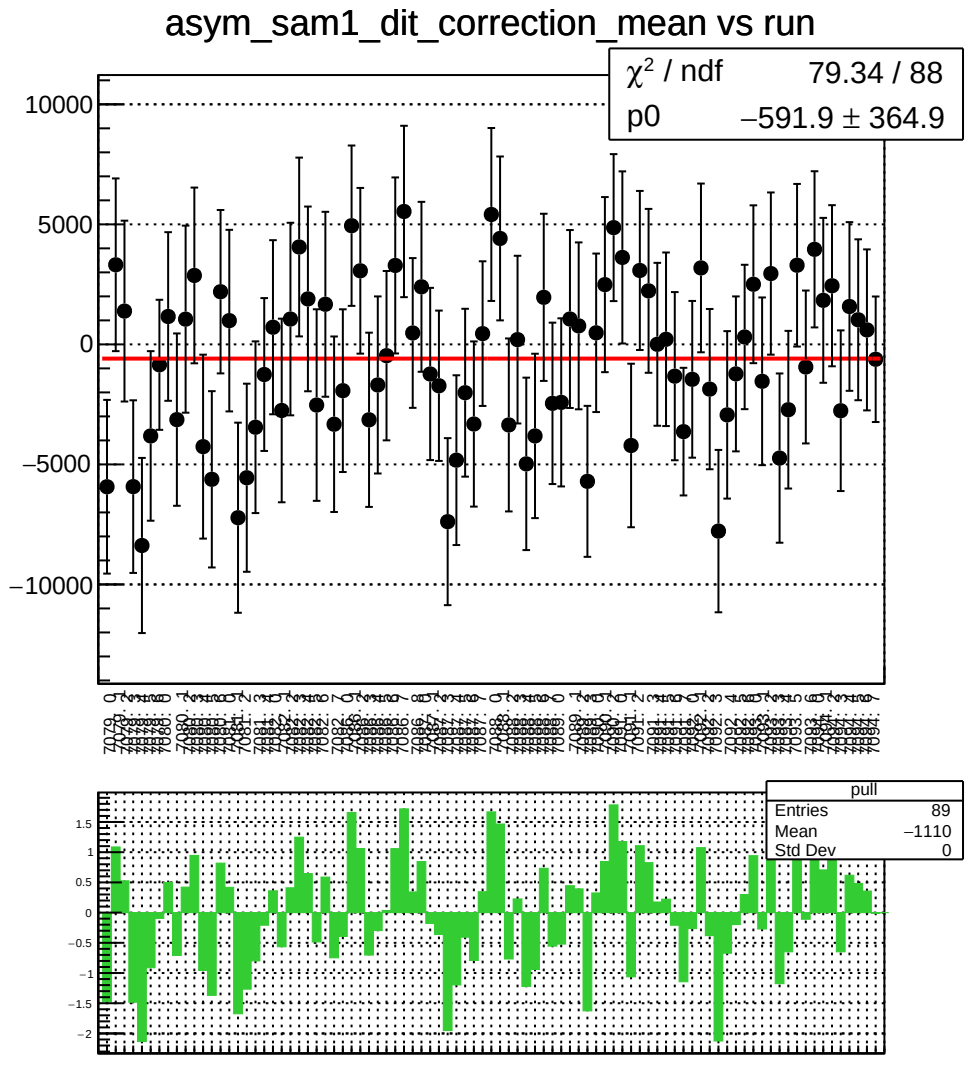

pull1D
Entries 89
Mean −0.00423
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

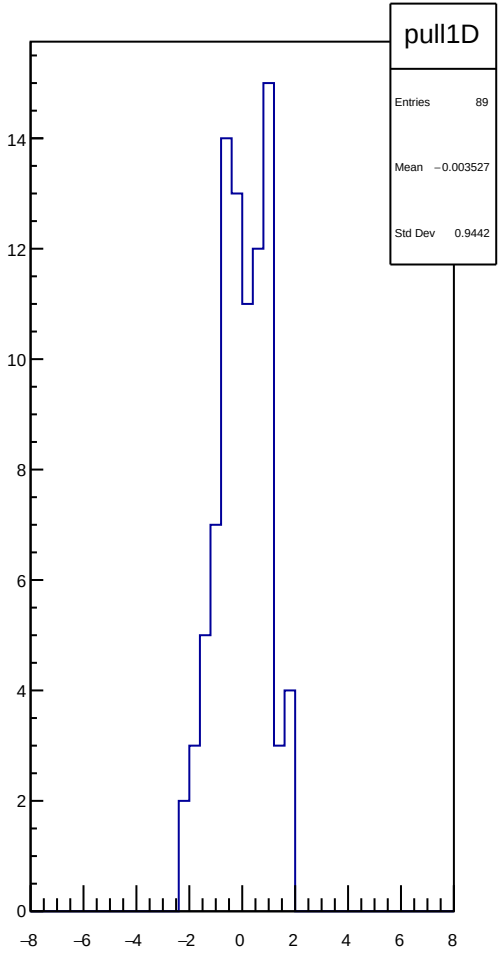

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 4497 / 88
p0 321.9 ± 0.2482
360
340
320
300
280

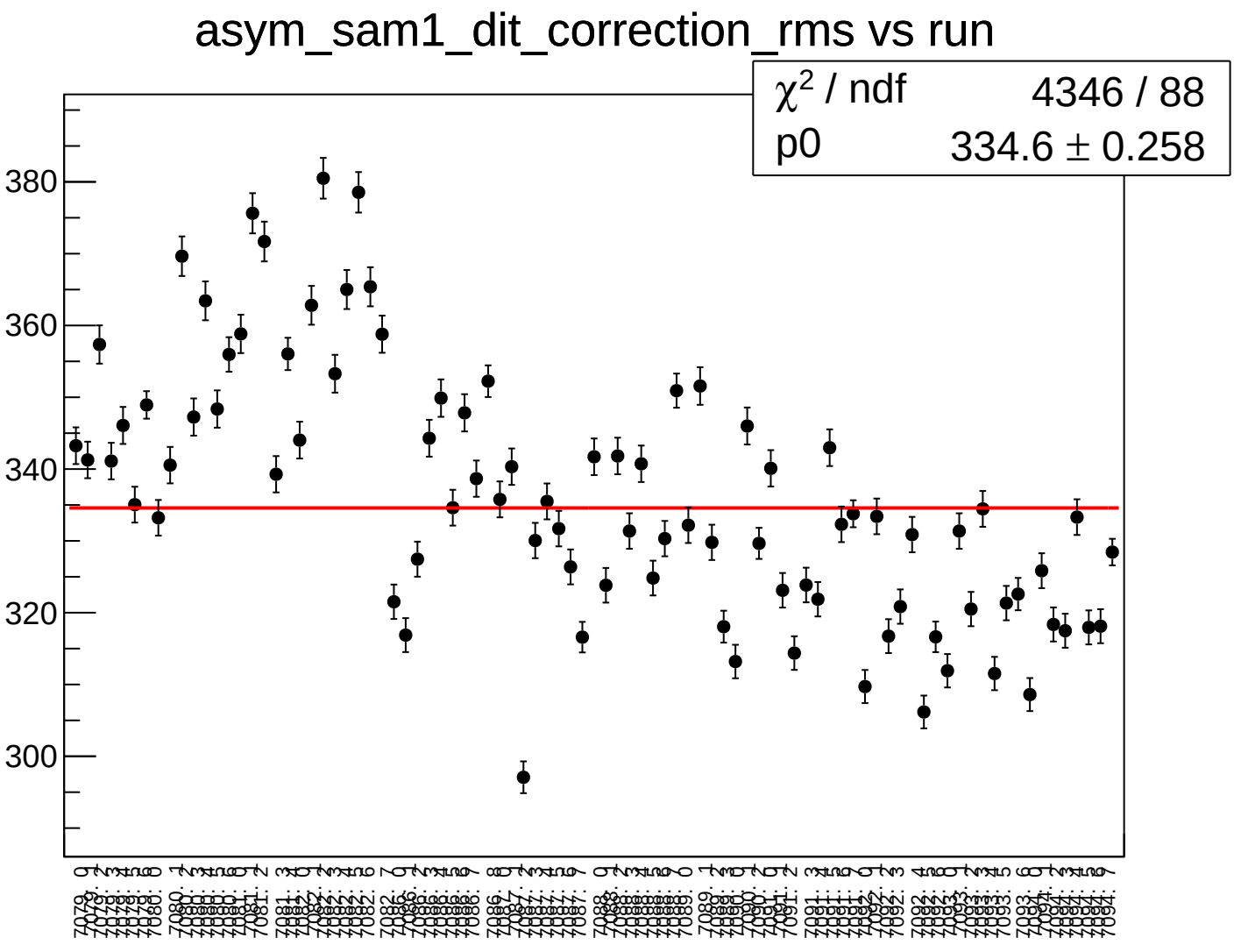

dit_asym_sam1_mean vs run
χ² / ndf 77.77 / 88
p0 −148.8 ± 86.25
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −116.5
Std Dev 0
3
2
1
0
−1
−2

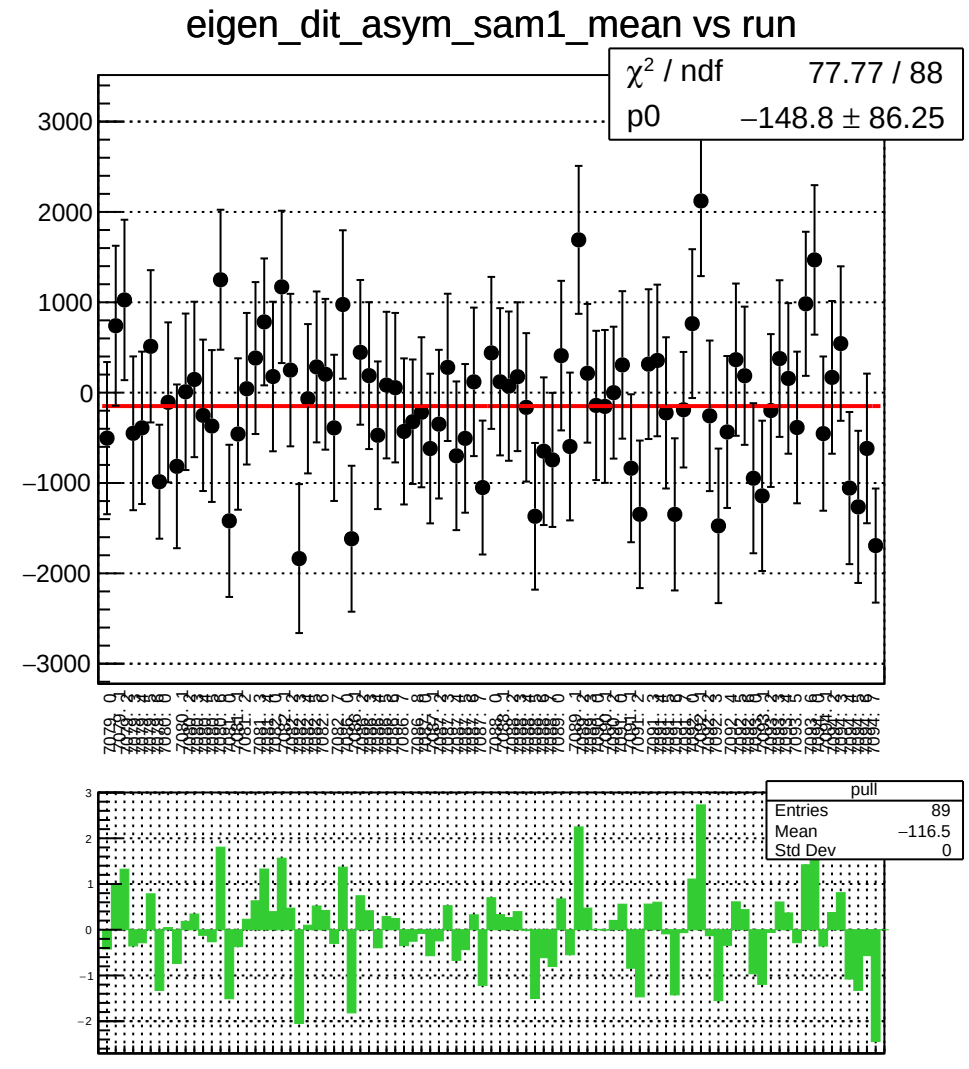

pull1D
Entries 89
Mean 0.01237
Std Dev 0.9347
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

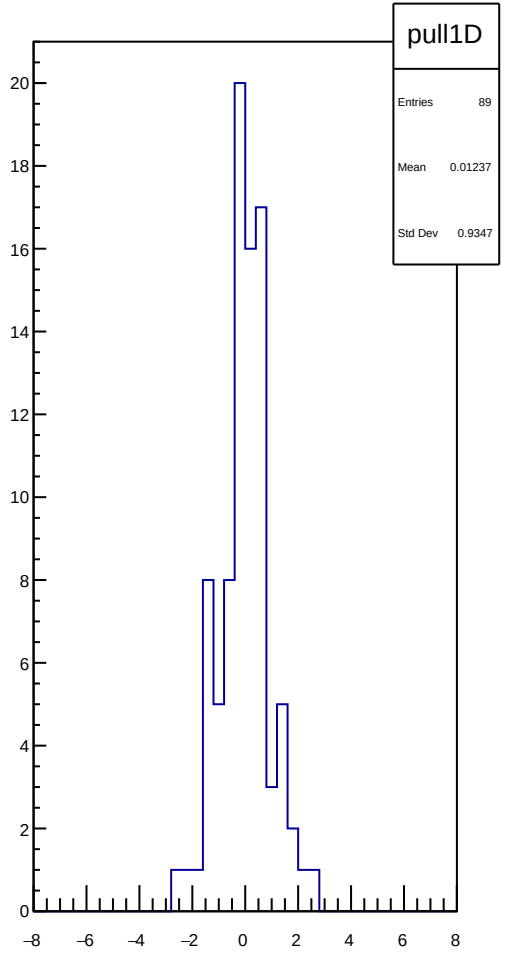

dit_asym_sam1_rms vs run
χ² / ndf 754.4 / 88
p0 79.18 ± 0.06099
86
84
82
80
78
76

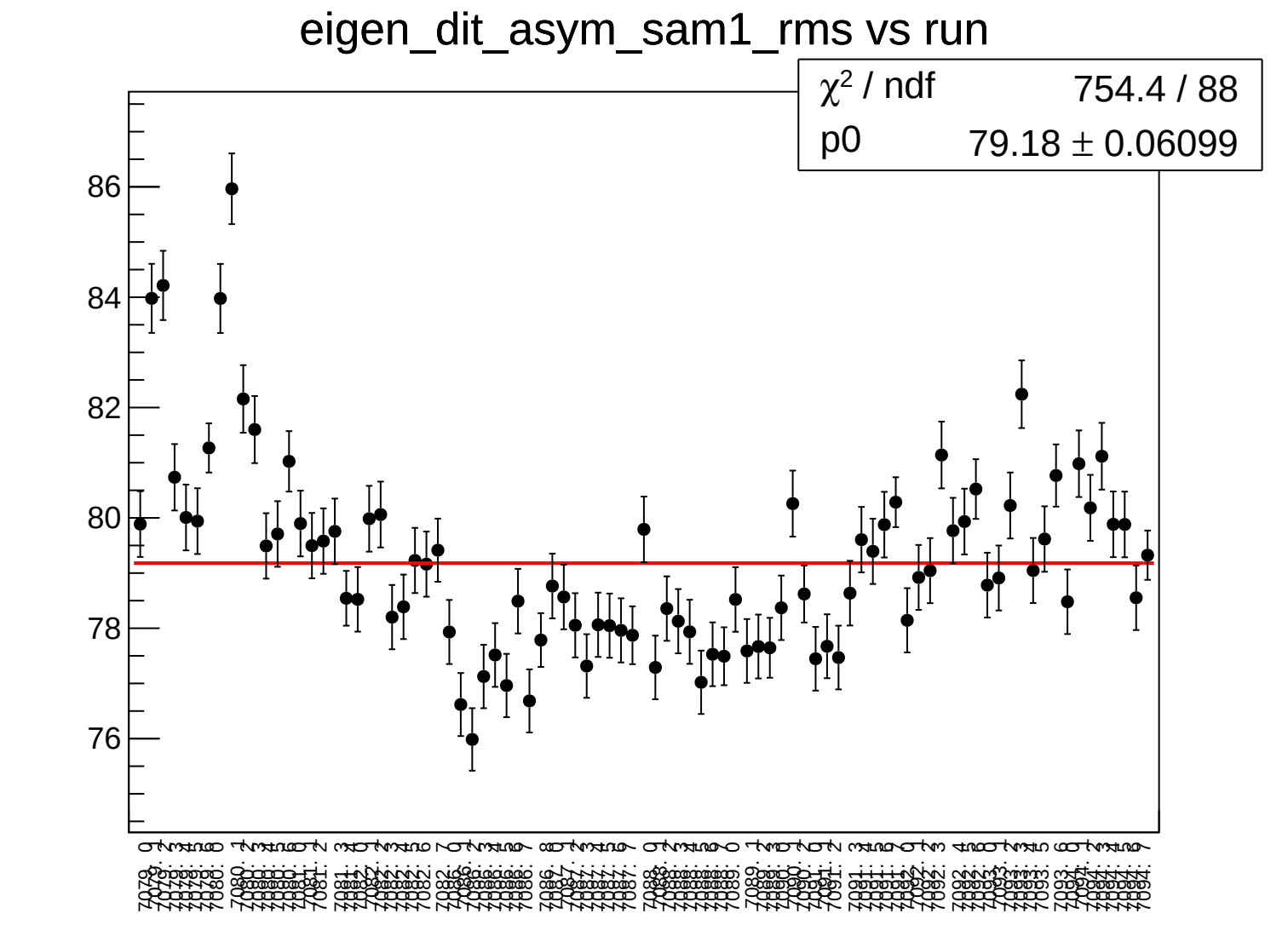

asym_sam1_dit_correction_mean vs run
χ² / ndf 79.34 / 88
p0 −591.9 ± 364.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −1110
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

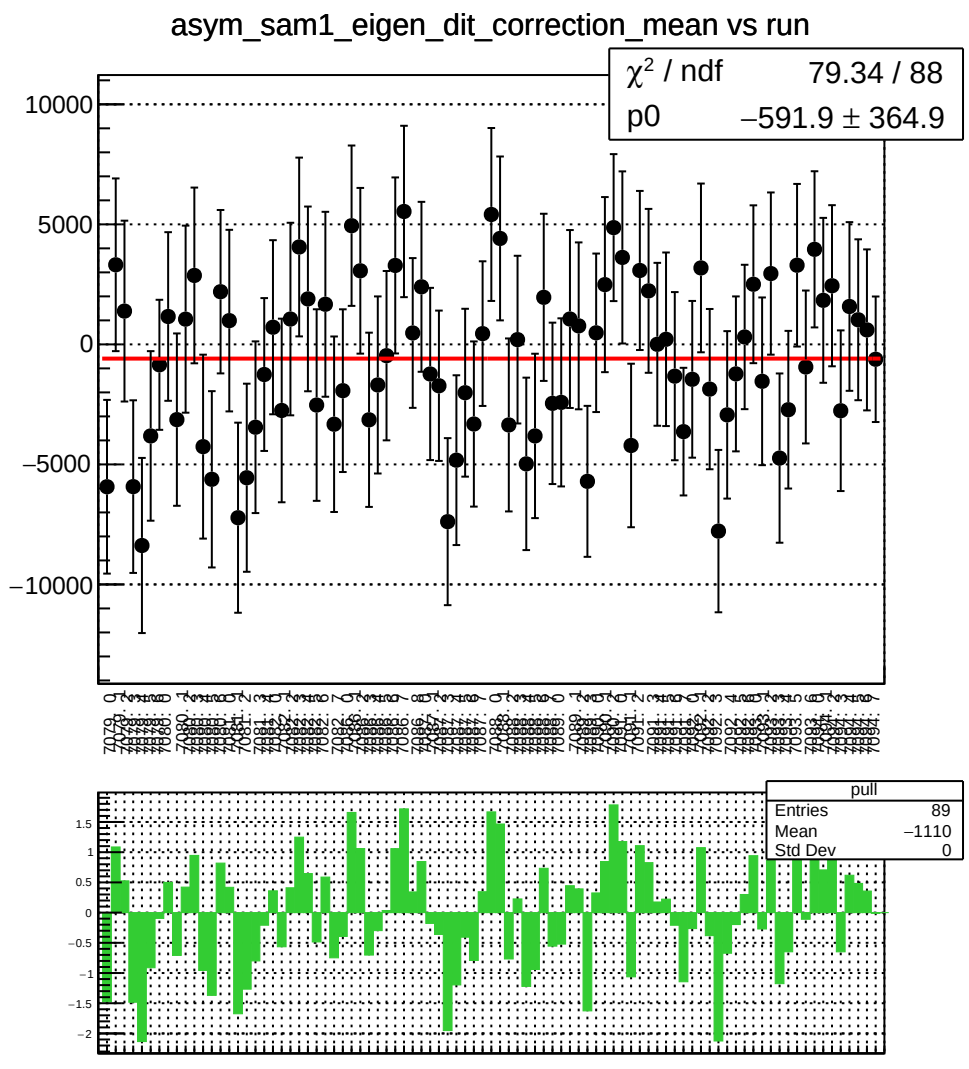

pull1D
Entries 89
Mean −0.003527
Std Dev 0.9442
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

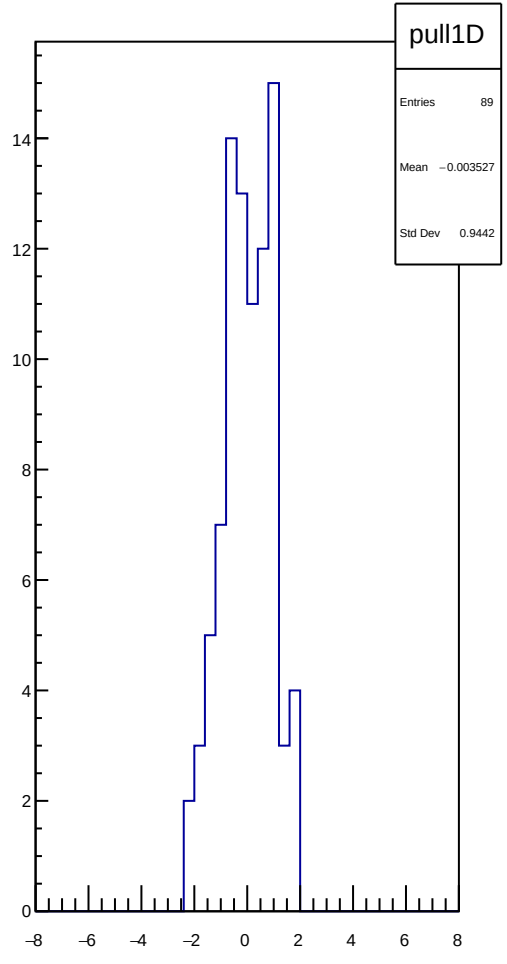

asym_sam1_dit_correction_rms vs run
χ² / ndf 4346 / 88
p0 334.6 ± 0.258
380
360
340
320
300

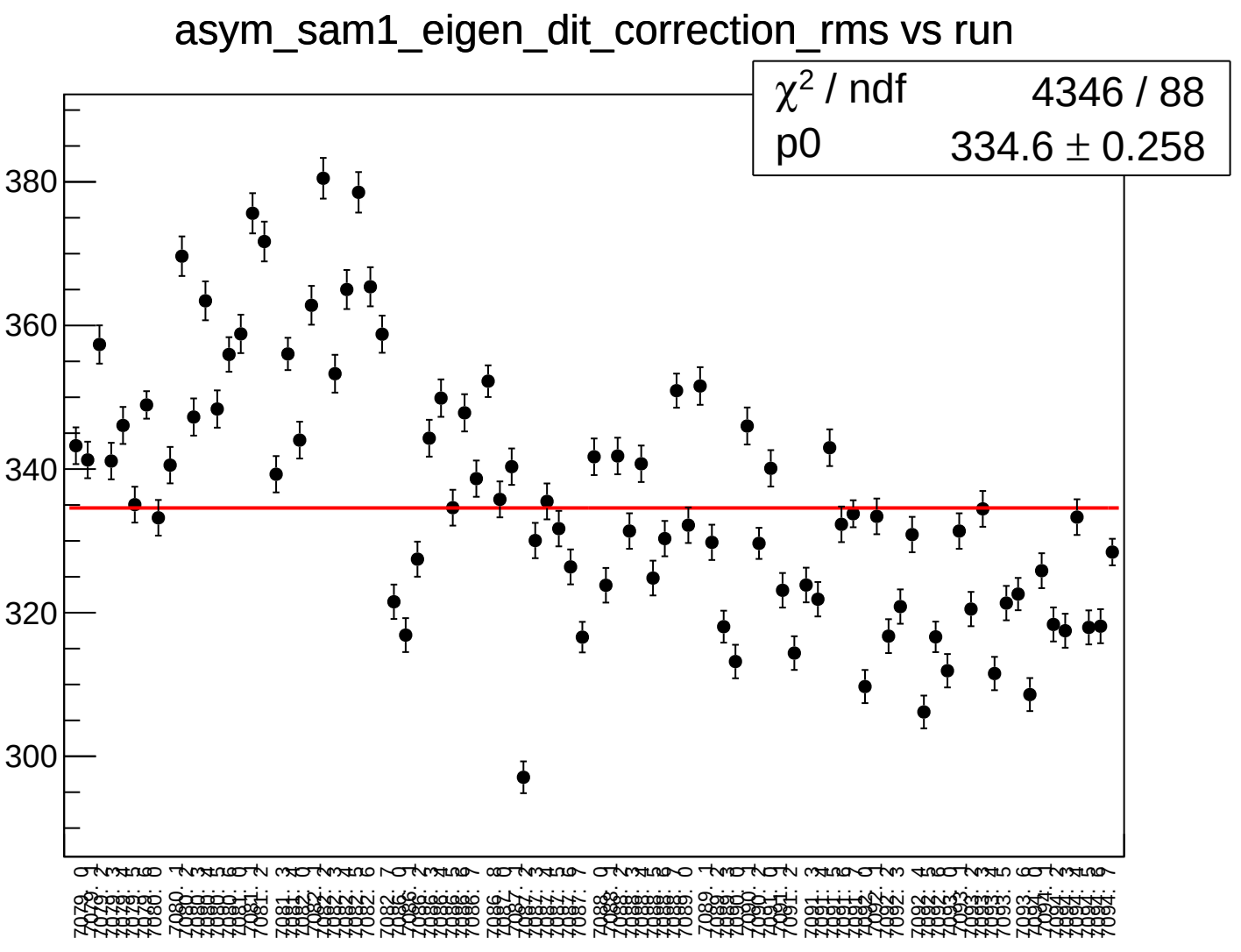

eigen_dit_asym_sam1_mean vs run
χ² / ndf 77.77 / 88
p0 −148.8 ± 86.25
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −116.5
Std Dev 0
3
2
1
0
−1
−2

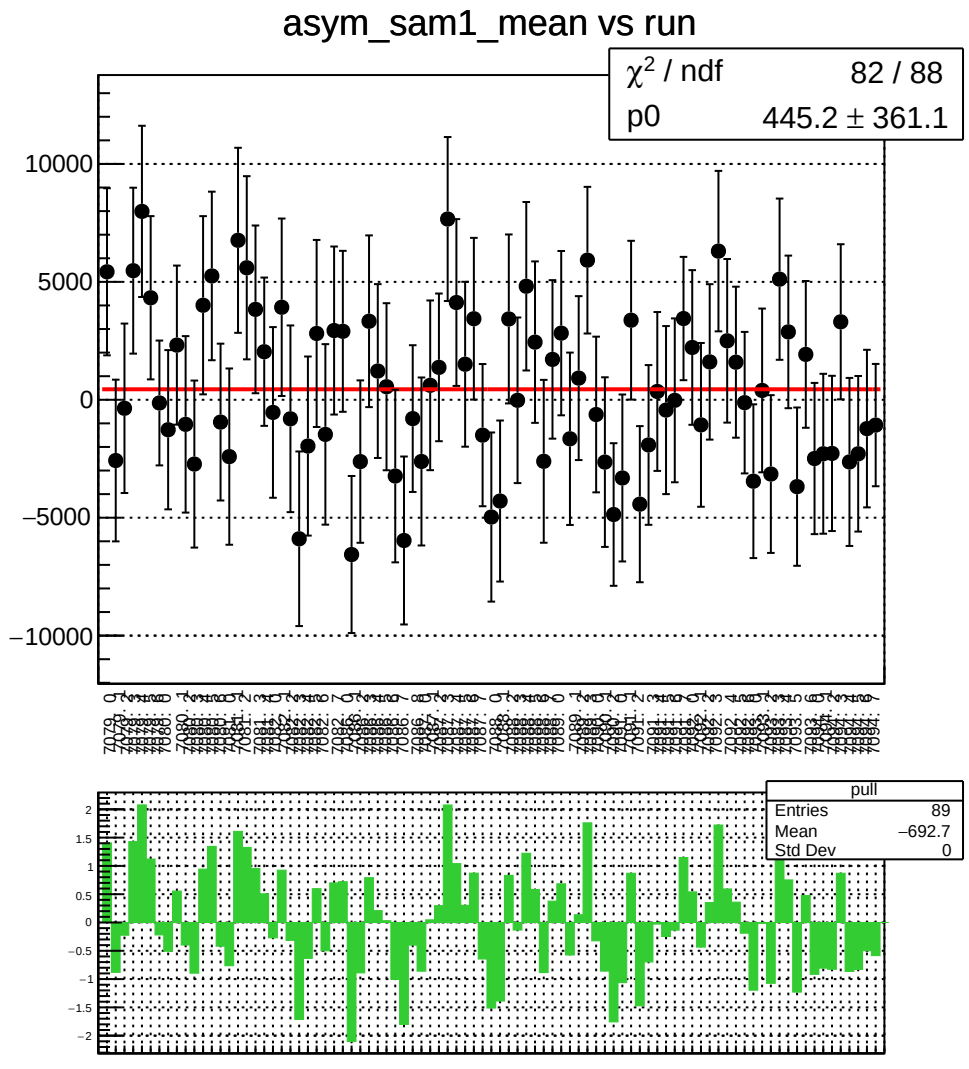

pull1D
Entries 89
Mean 0.01237
Std Dev 0.9347
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

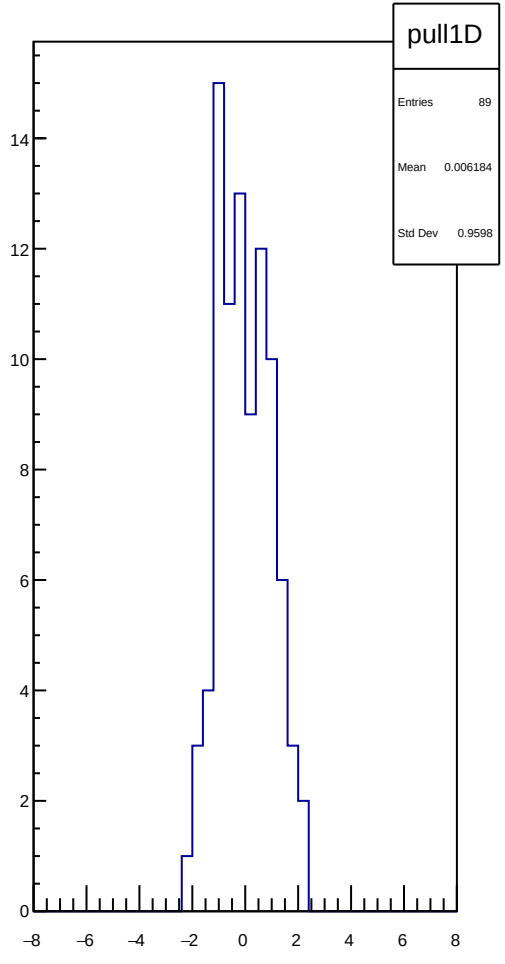

eigen_dit_asym_sam1_rms vs run
χ² / ndf 754.4 / 88
p0 79.18 ± 0.06099
86
84
82
80
78
76

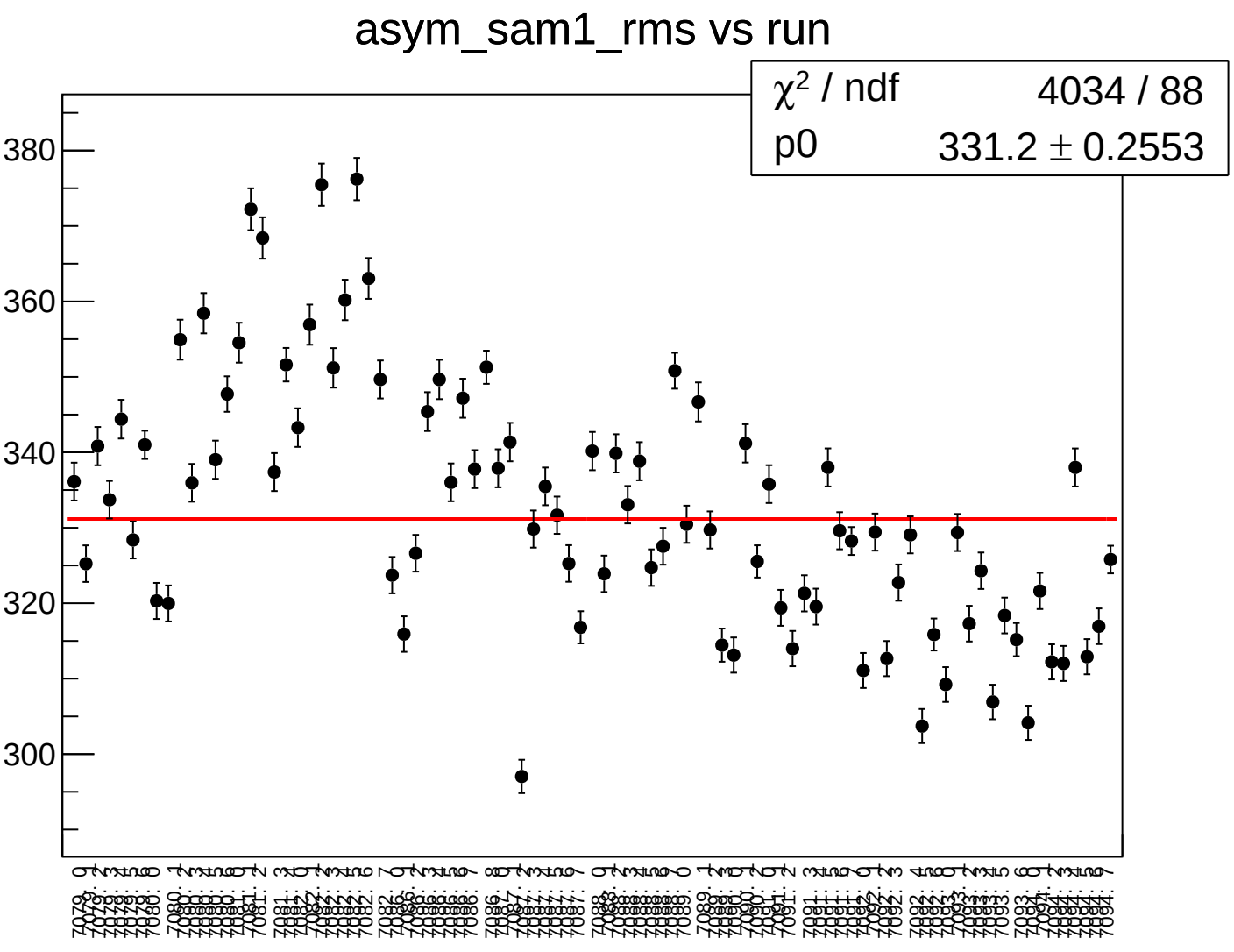

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 79.34 / 88
p0 −591.9 ± 364.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −1110
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

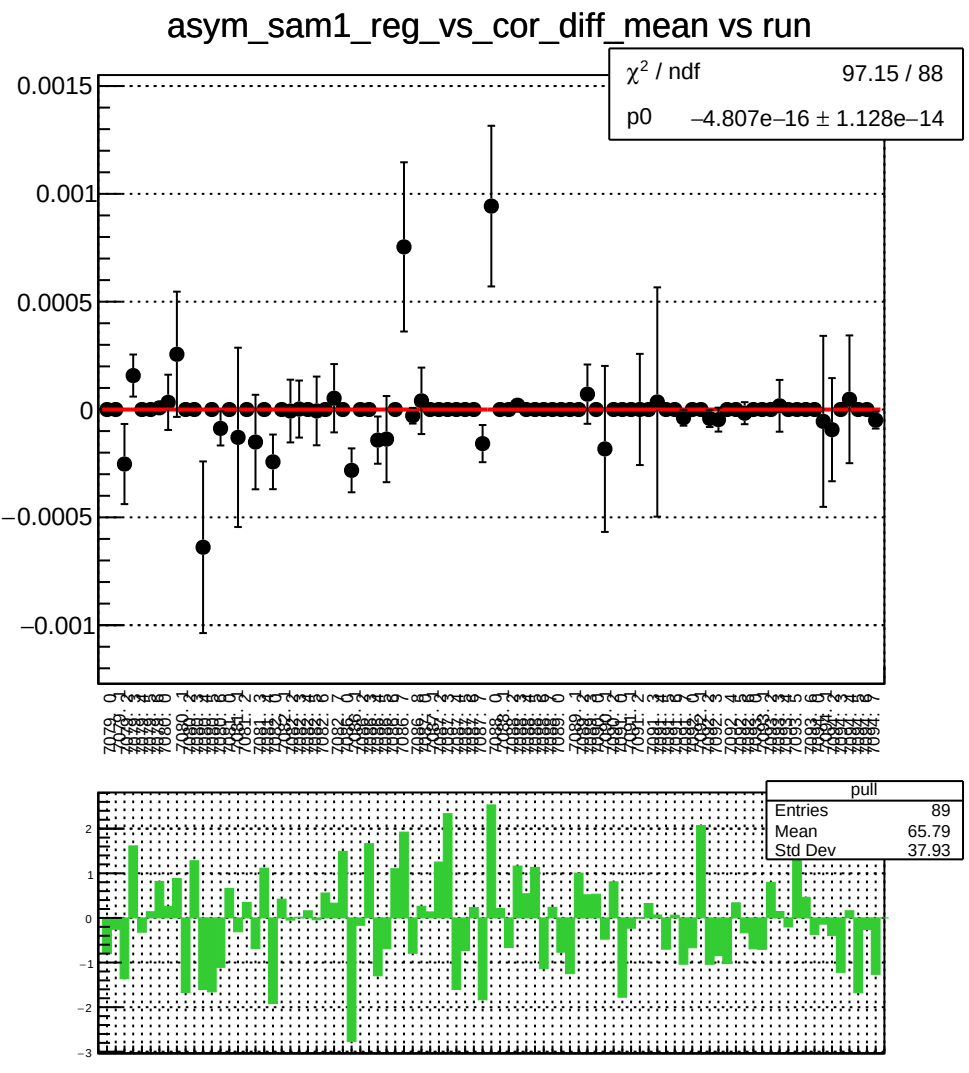

pull1D
Entries 89
Mean −0.003527
Std Dev 0.9442
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

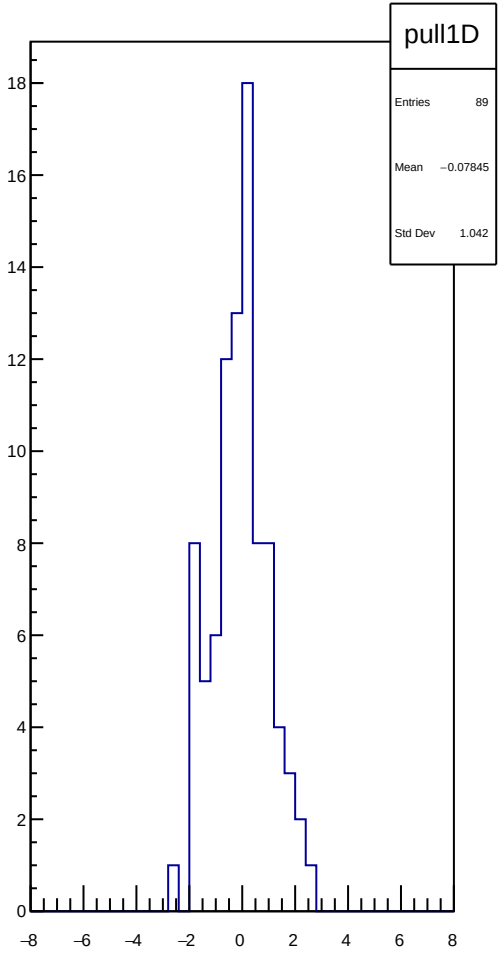

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 4346 / 88
p0 334.6 ± 0.258
380
360
340
320
300

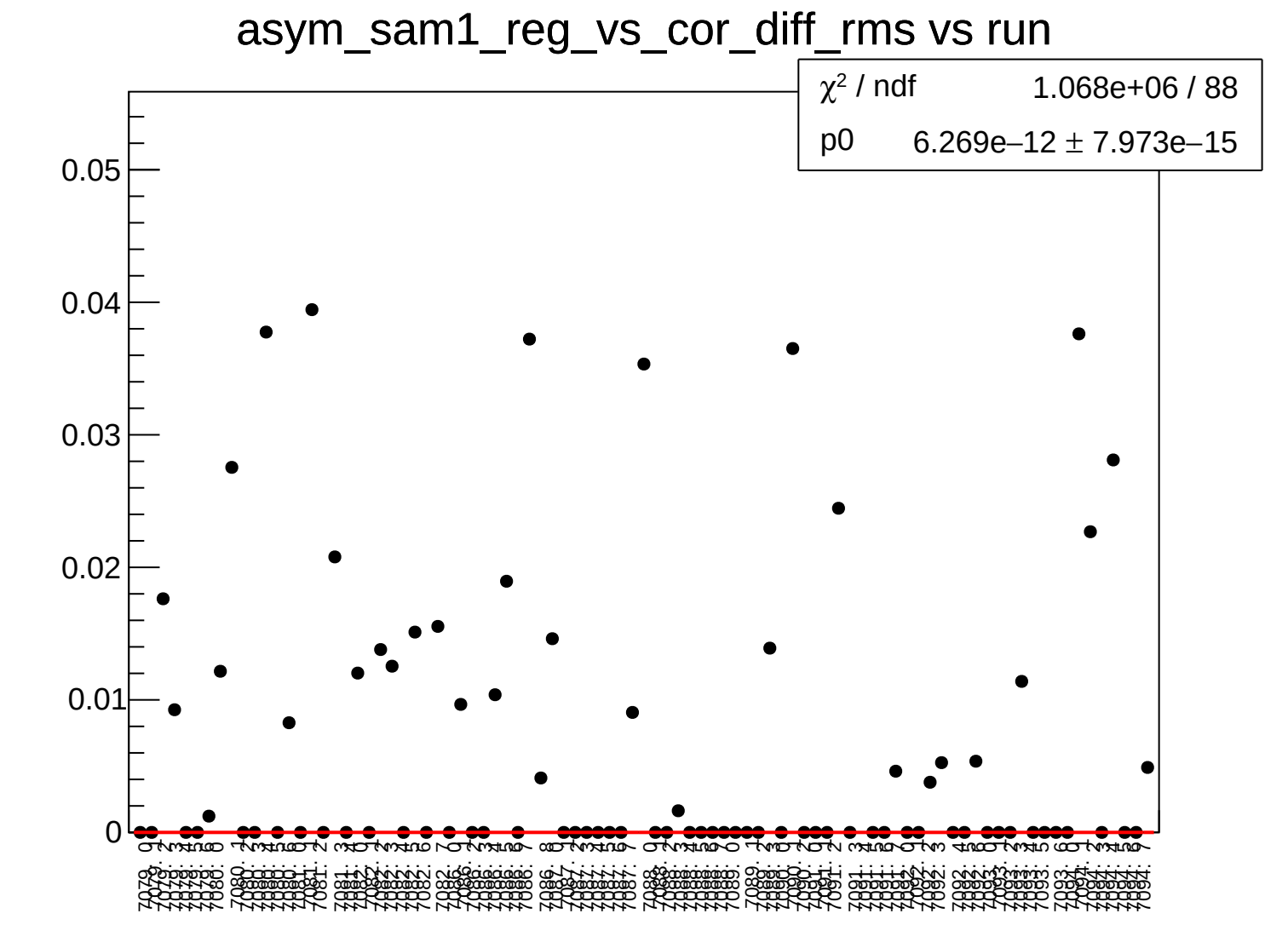

asym_sam1_mean vs run
χ² / ndf 82 / 88
p0 445.2 ± 361.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −692.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

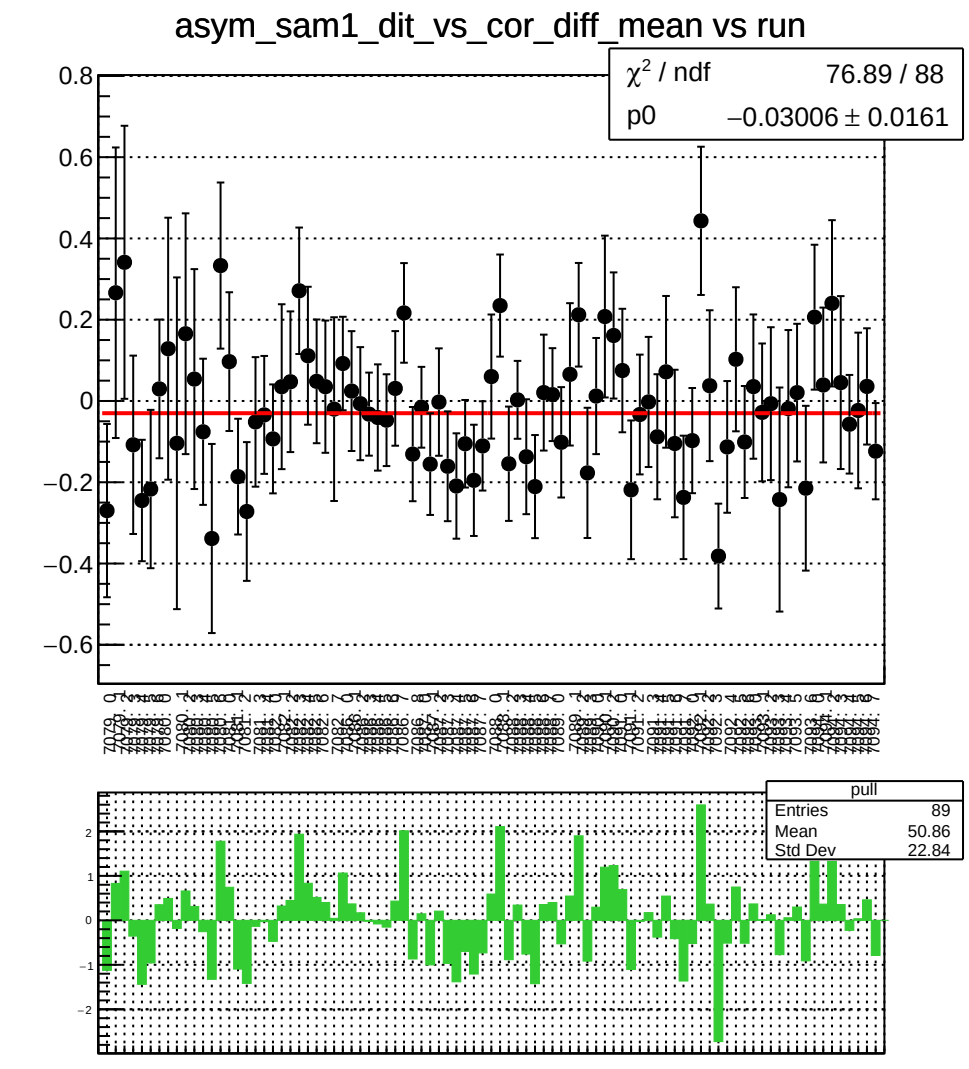

pull1D
Entries 89
Mean 0.006184
Std Dev 0.9598
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

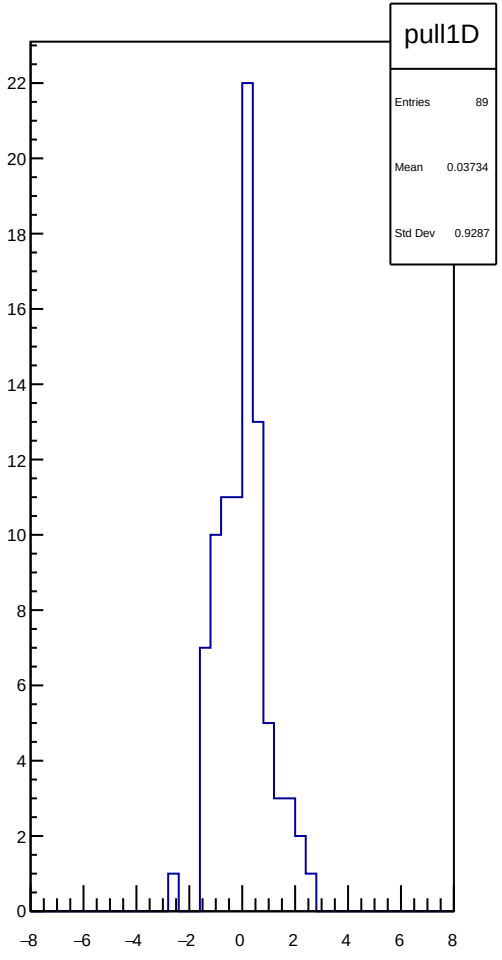

asym_sam1_rms vs run
χ² / ndf 4034 / 88
p0 331.2 ± 0.2553
380
360
340
320
300

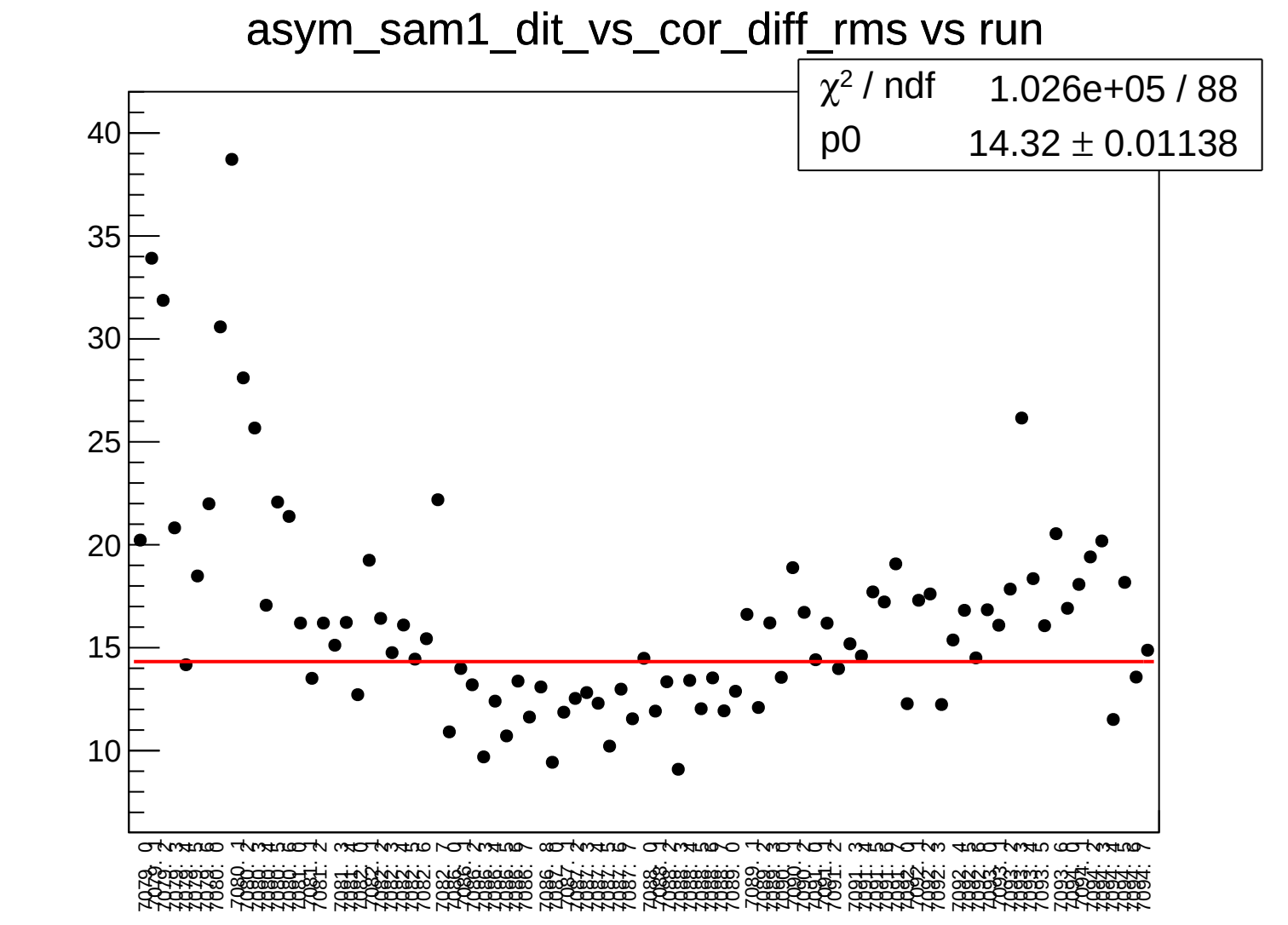

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 97.15 / 88
p0 −4.807e−16 ± 1.128e−14
pull
Entries 89
Mean 65.79
Std Dev 37.93

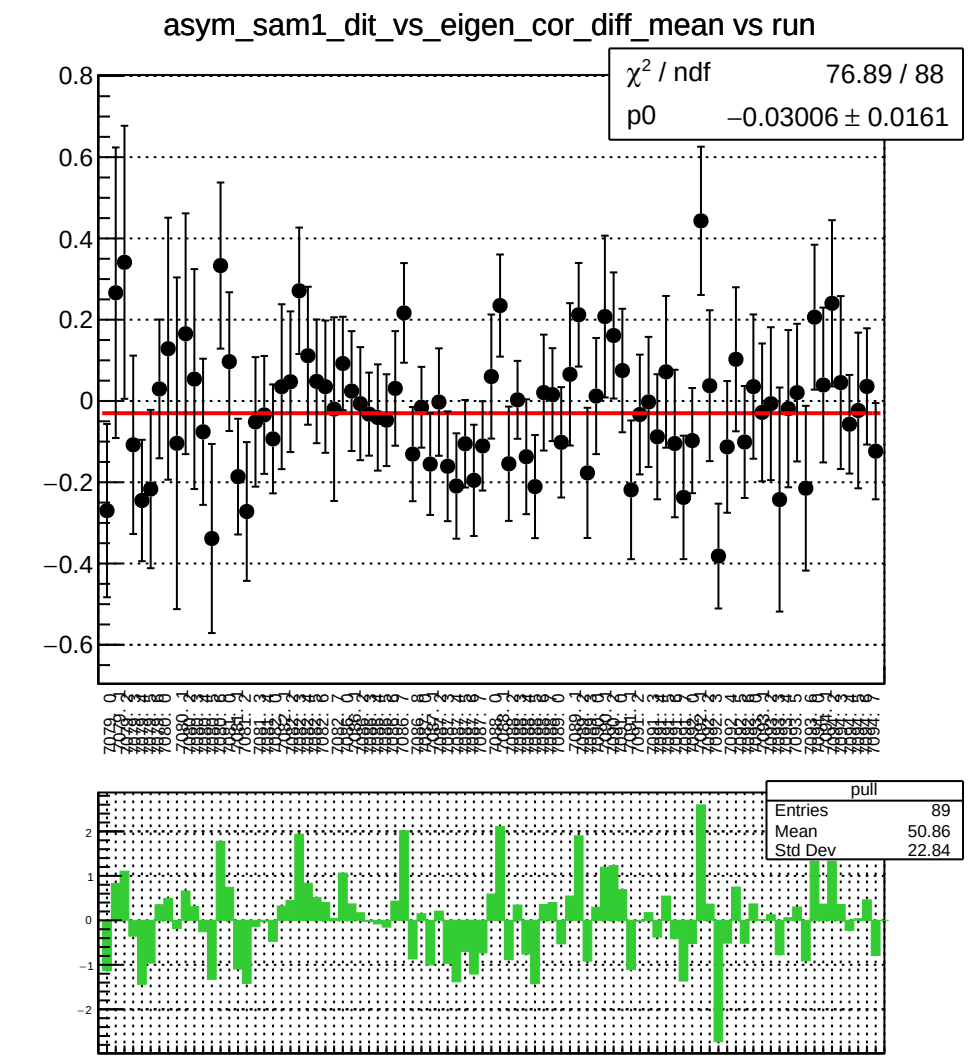

pull1D
Entries 89
Mean −0.07845
Std Dev 1.042

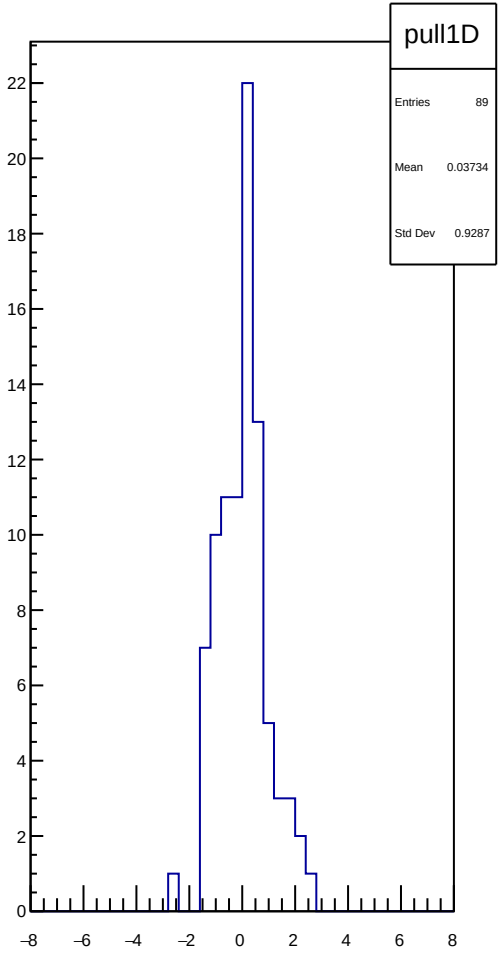

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.068e+06 / 88
p0 6.269e−12 ± 7.973e−15
0.05
0.04
0.03
0.02
0.01
0

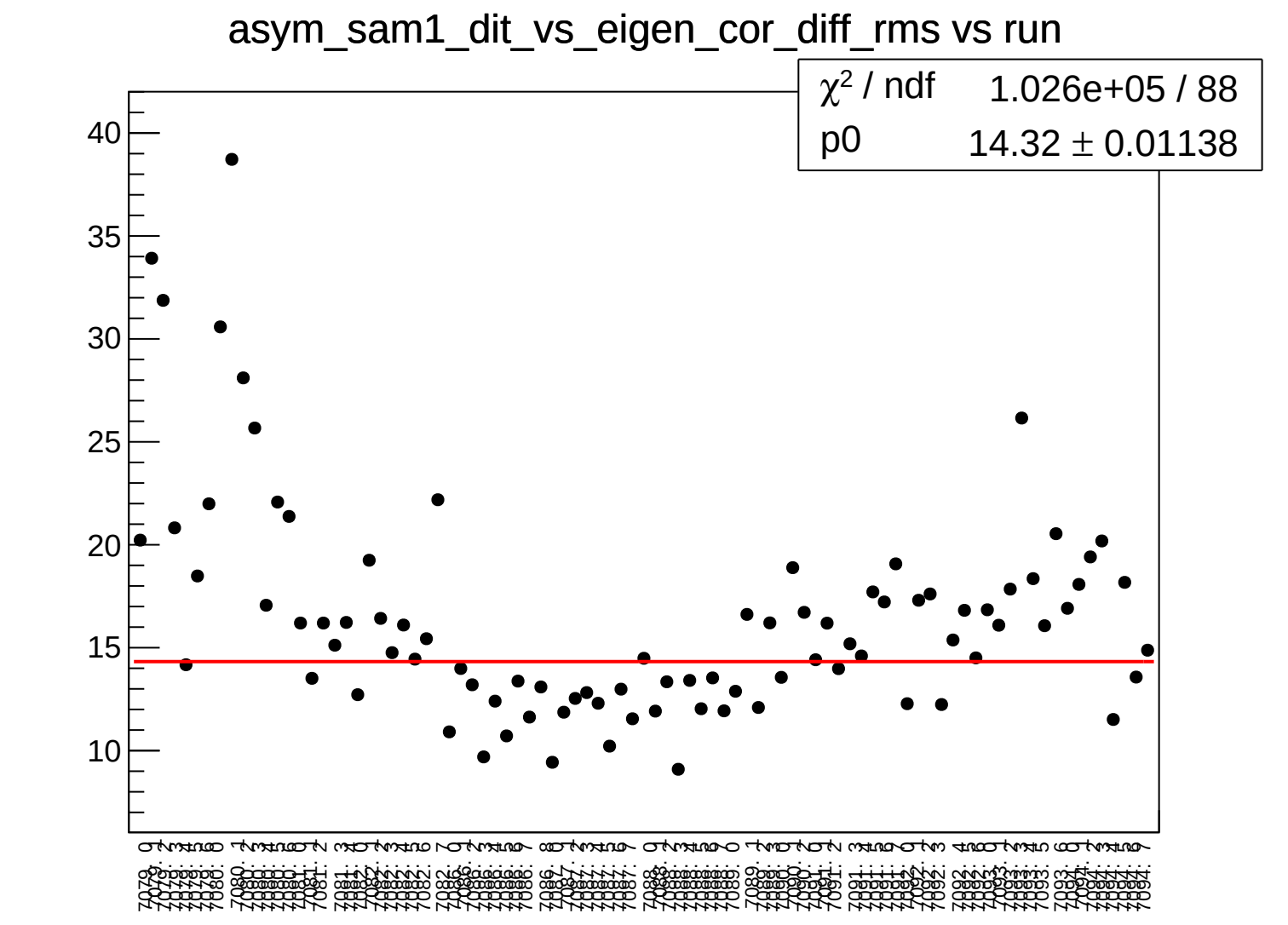

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 76.89 / 88
p0 −0.03006 ± 0.0161
pull
Entries 89
Mean 50.86
Std Dev 22.84

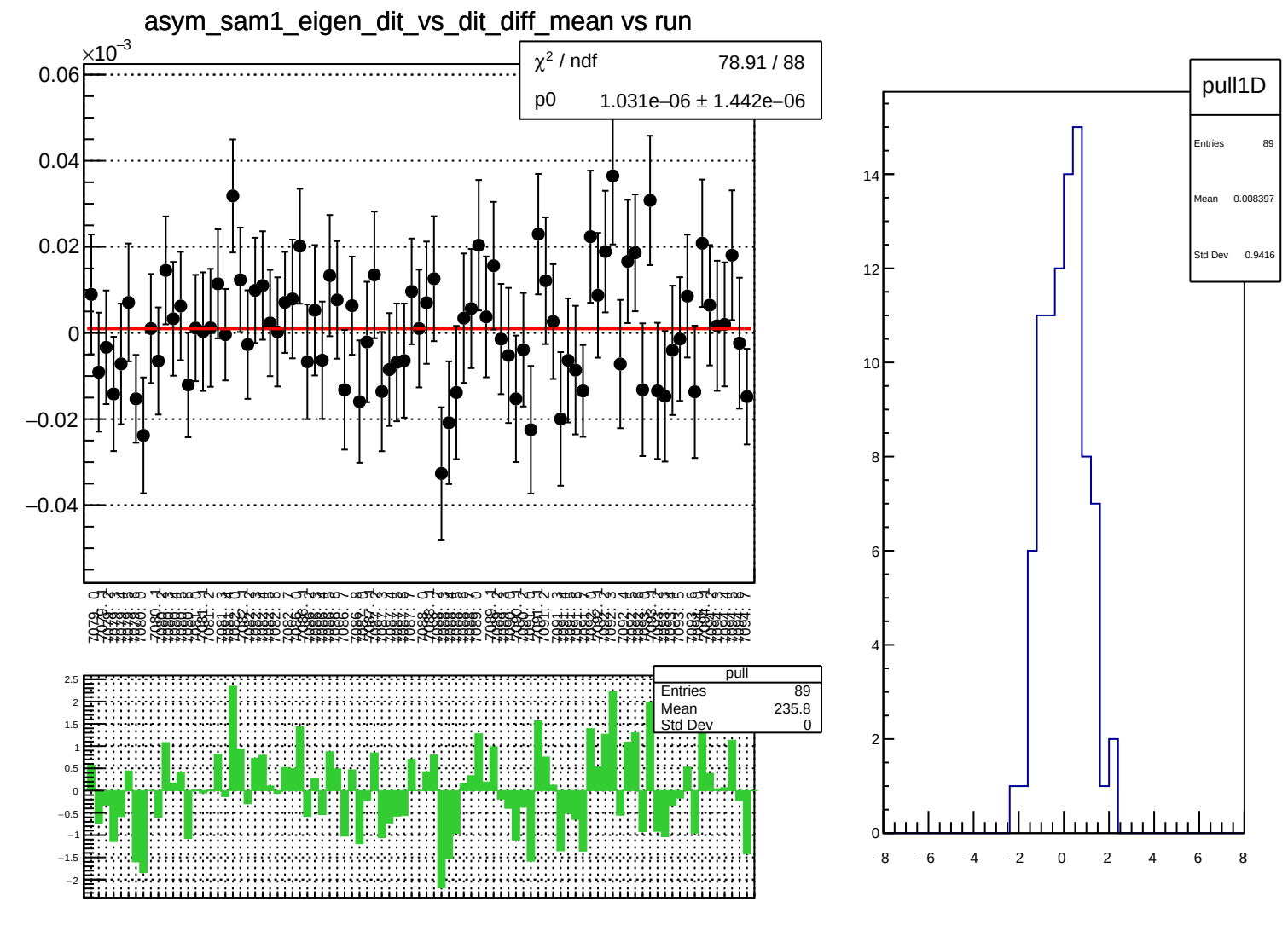

pull1D
Entries 89
Mean 0.03734
Std Dev 0.9287

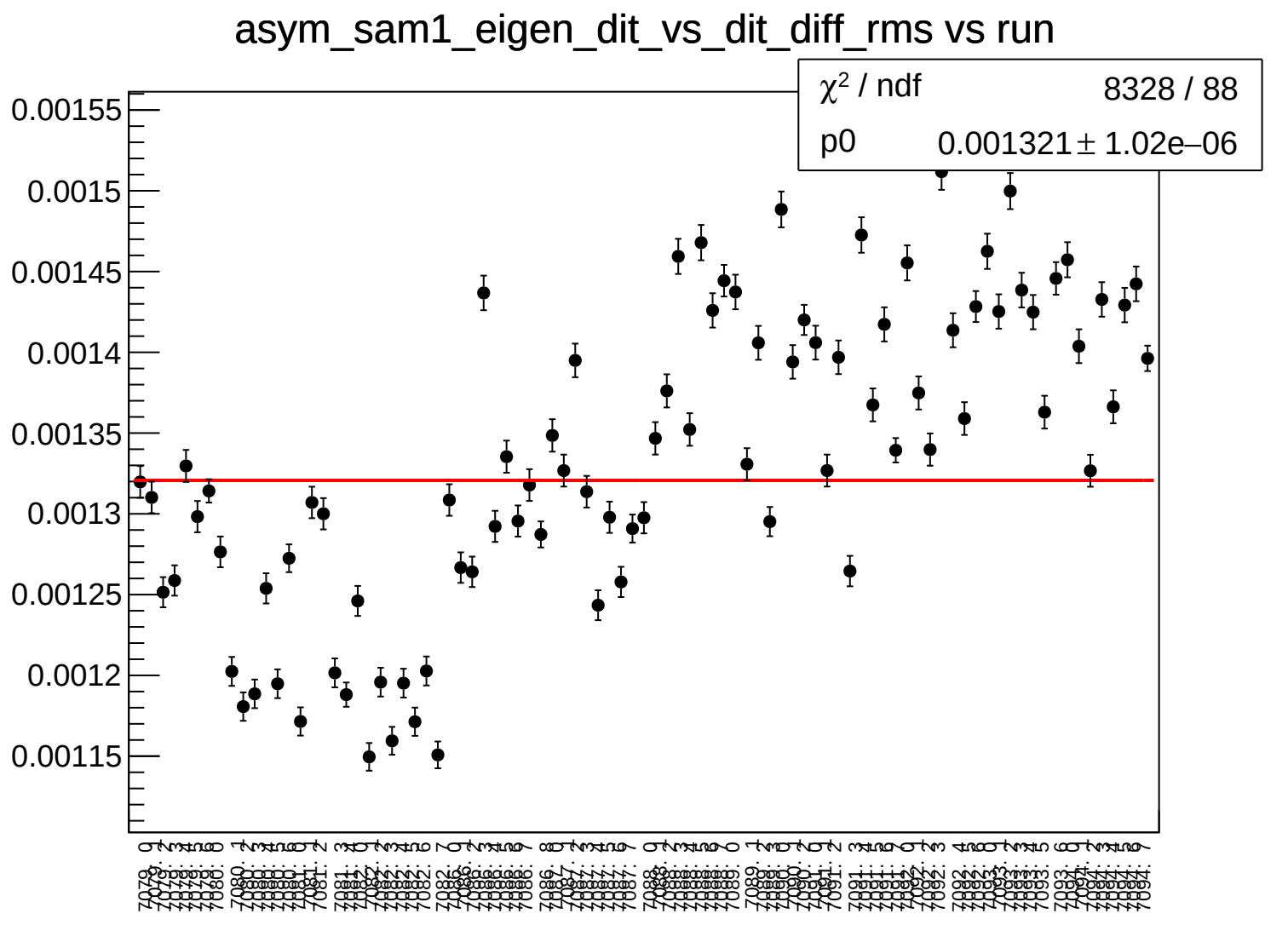

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.026e+05 / 88
p0 14.32 ± 0.01138
40
35
30
25
20
15
10

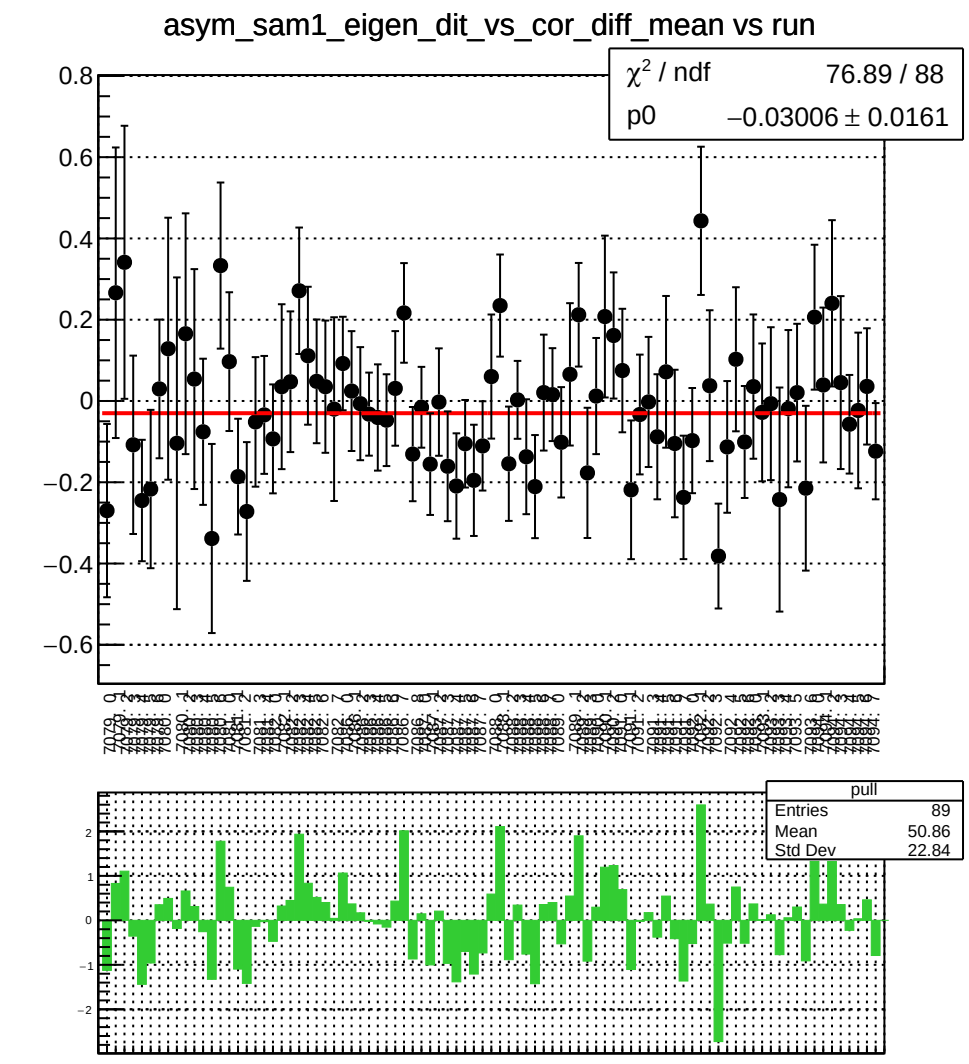

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.89 / 88
p0 −0.03006 ± 0.0161
pull
Entries 89
Mean 50.86
Std Dev 22.84

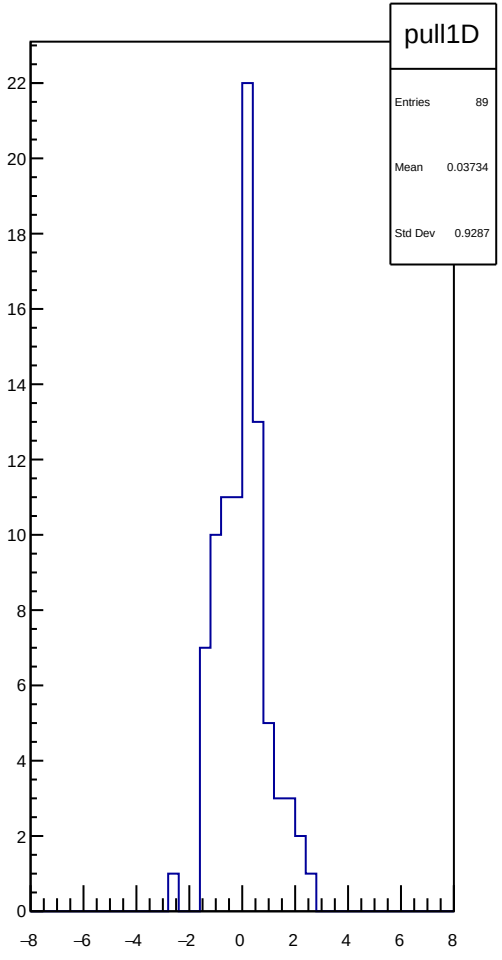

pull1D
Entries 89
Mean 0.03734
Std Dev 0.9287

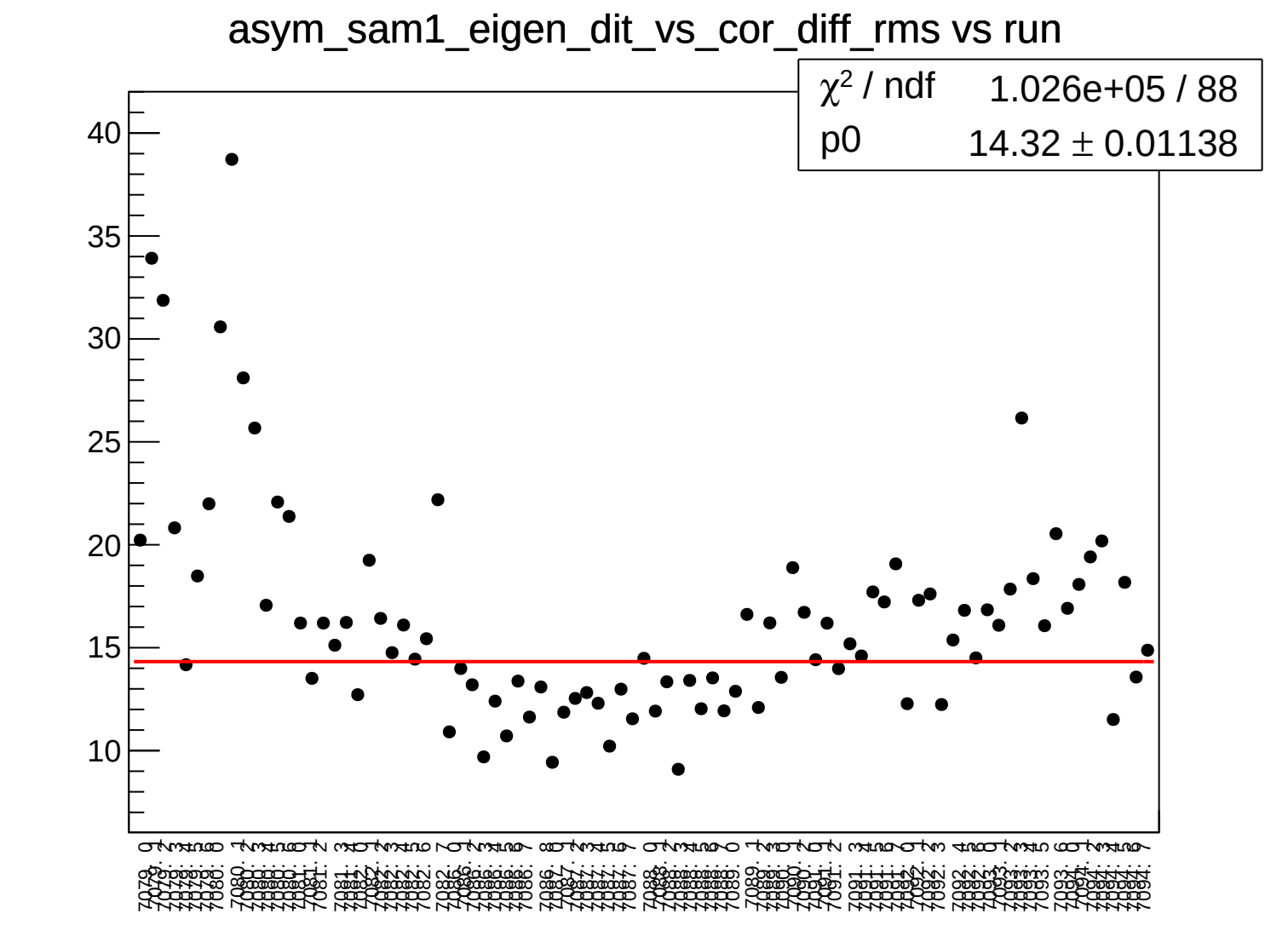

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.026e+05 / 88
p0 14.32 ± 0.01138
40
35
30
25
20
15
10

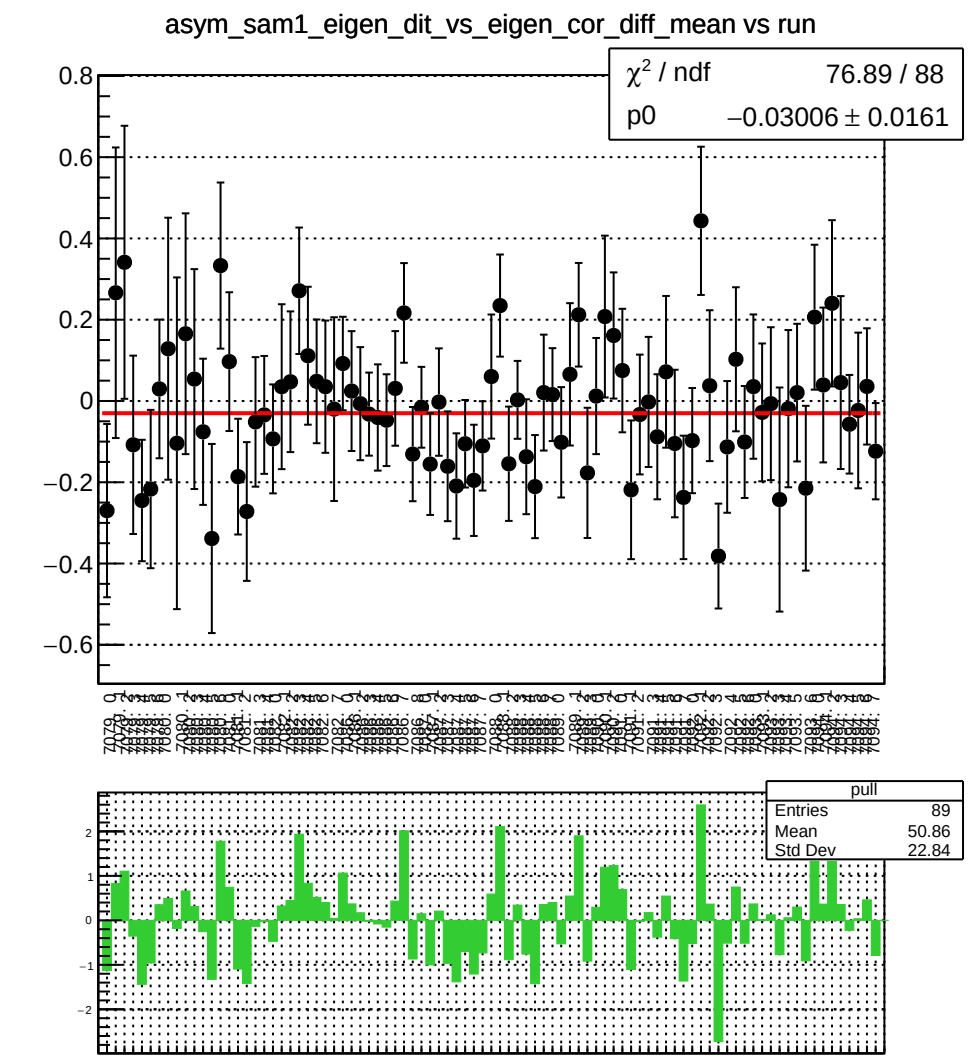

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.91 / 88
p0 1.031e−06 ± 1.442e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 235.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.008397
Std Dev 0.9416
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

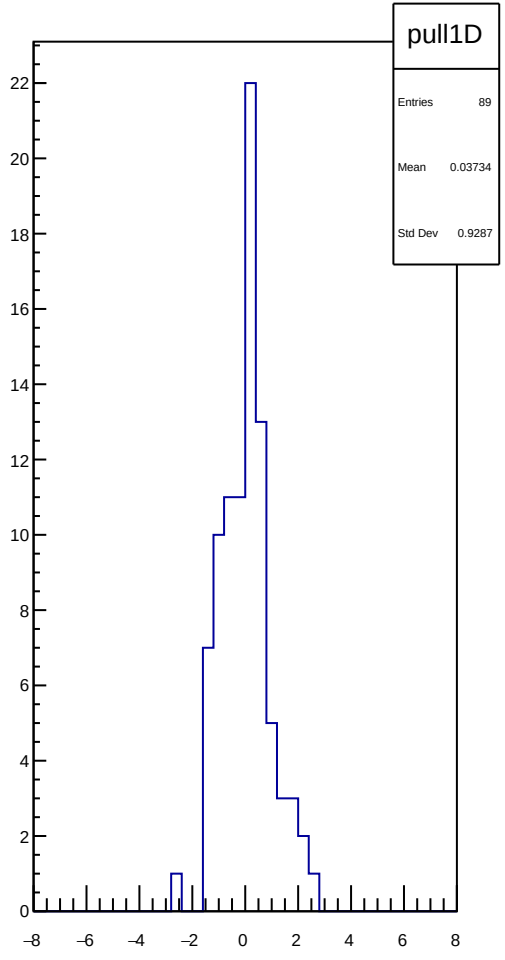

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8328 / 88
p0 0.001321 ± 1.02e–06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115

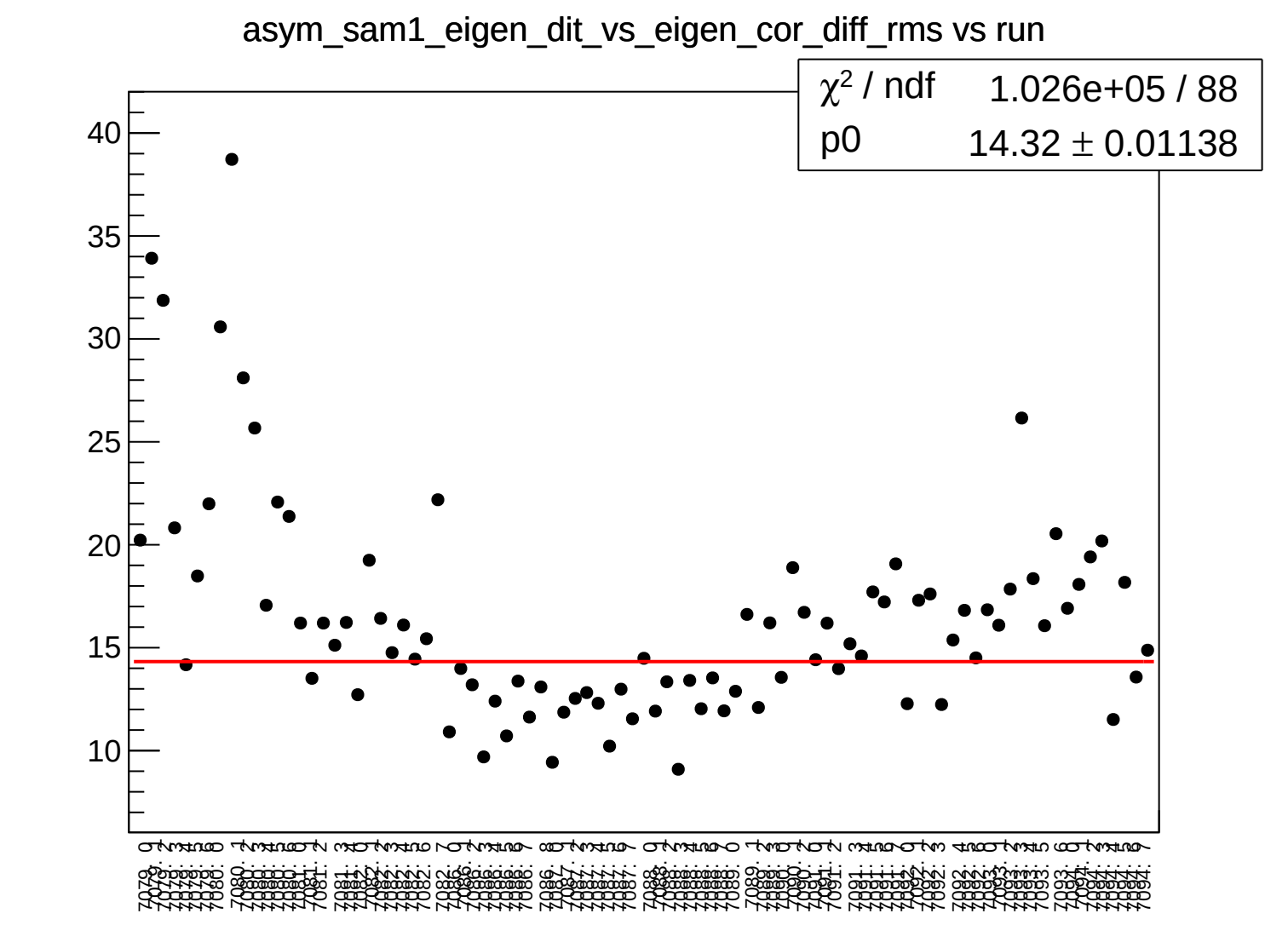

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.89 / 88
p0 −0.03006 ± 0.0161
pull
Entries 89
Mean 50.86
Std Dev 22.84

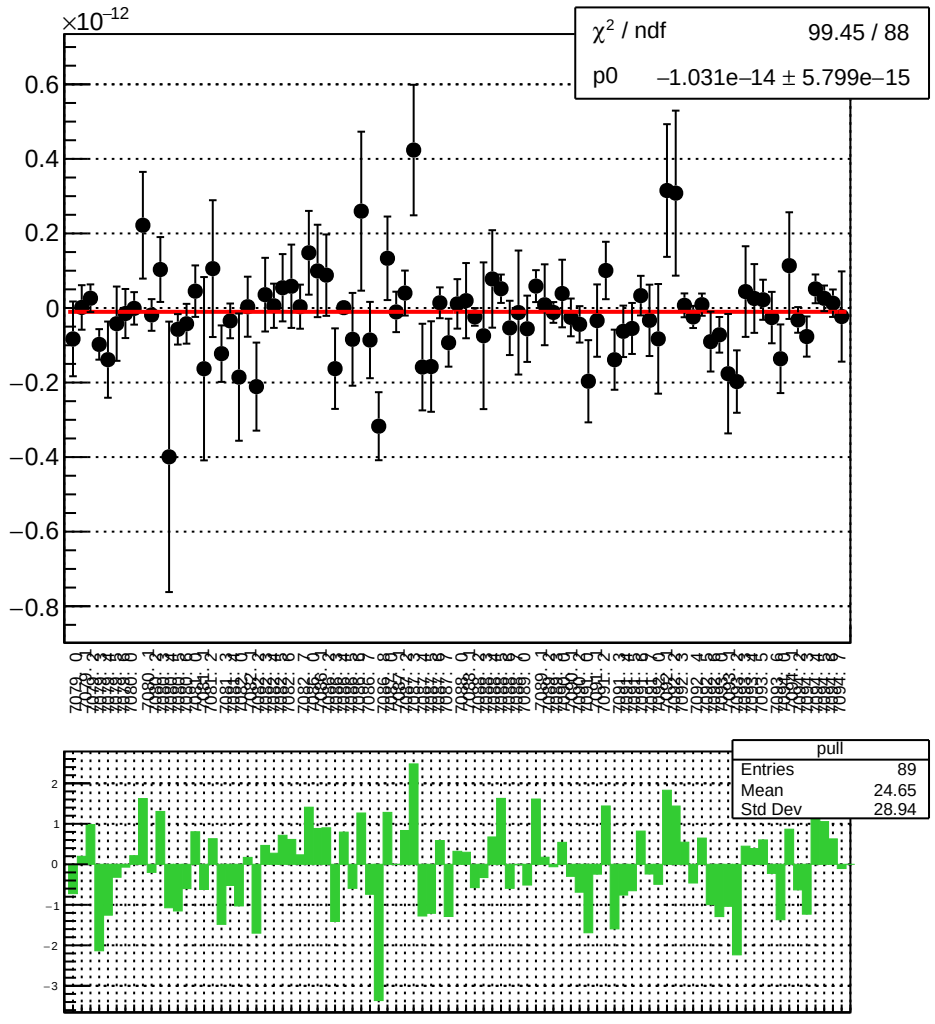

pull1D
Entries 89
Mean 0.03734
Std Dev 0.9287

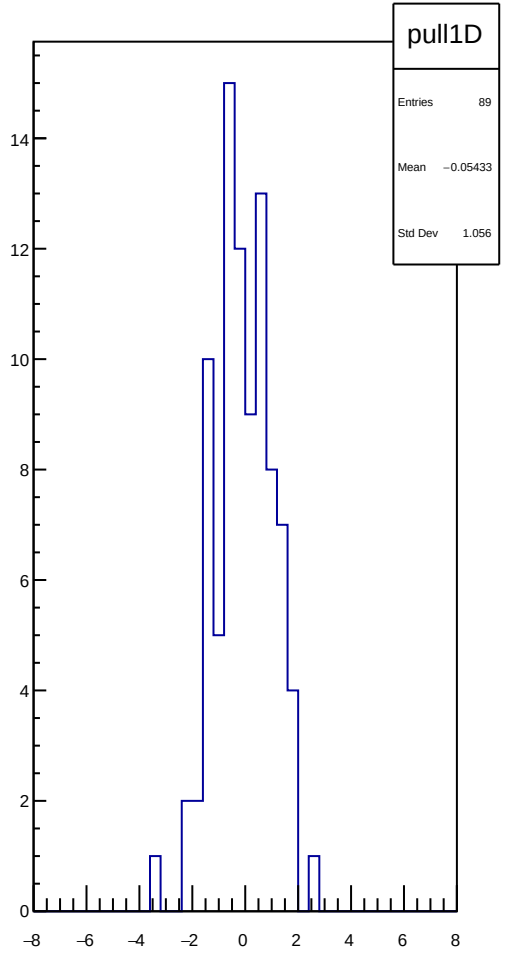

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.026e+05 / 88
p0 14.32 ± 0.01138
40
35
30
25
20
15
10

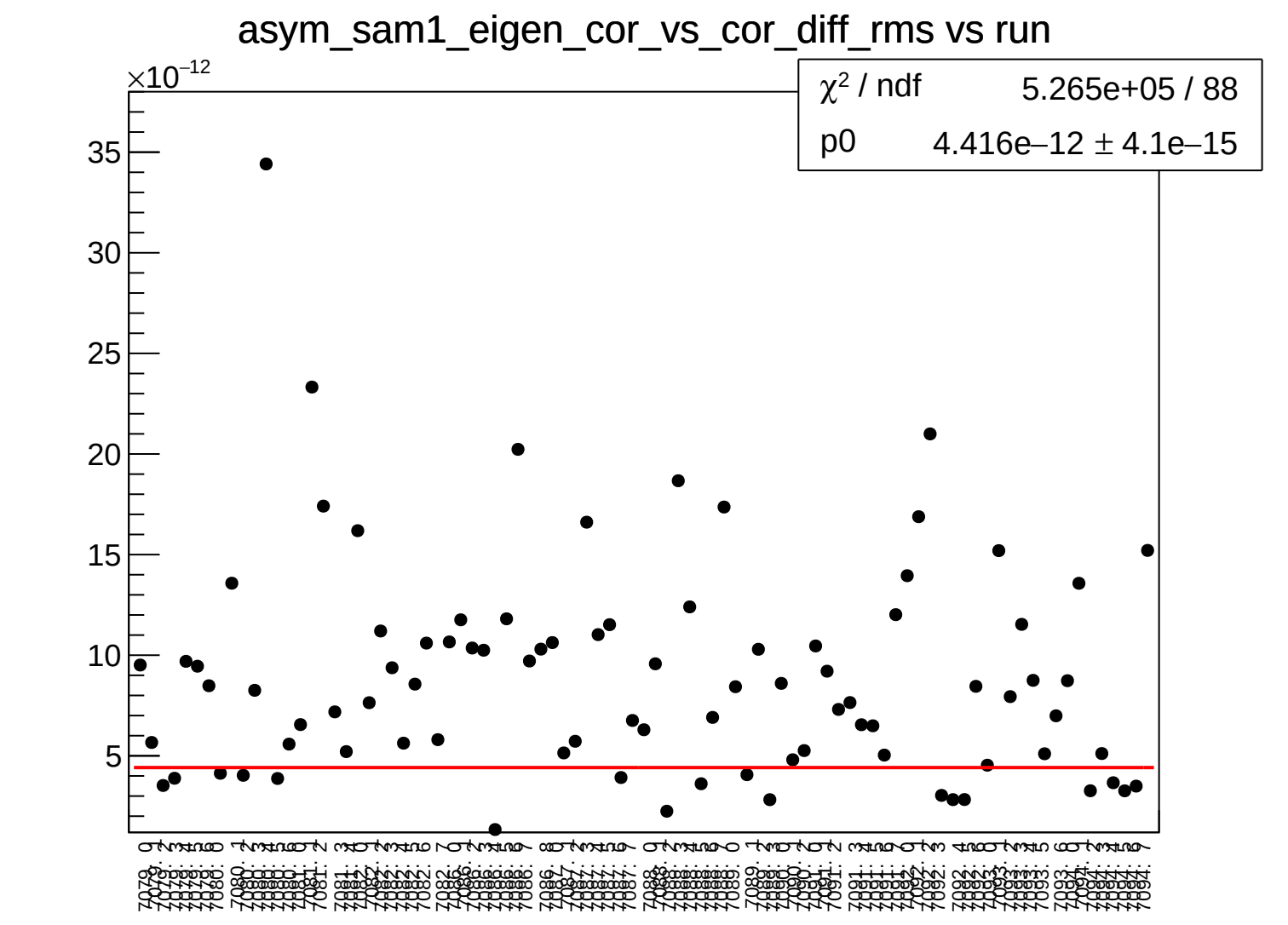

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.89 / 88
p0 −0.03006 ± 0.0161
pull
Entries 89
Mean 50.86
Std Dev 22.84

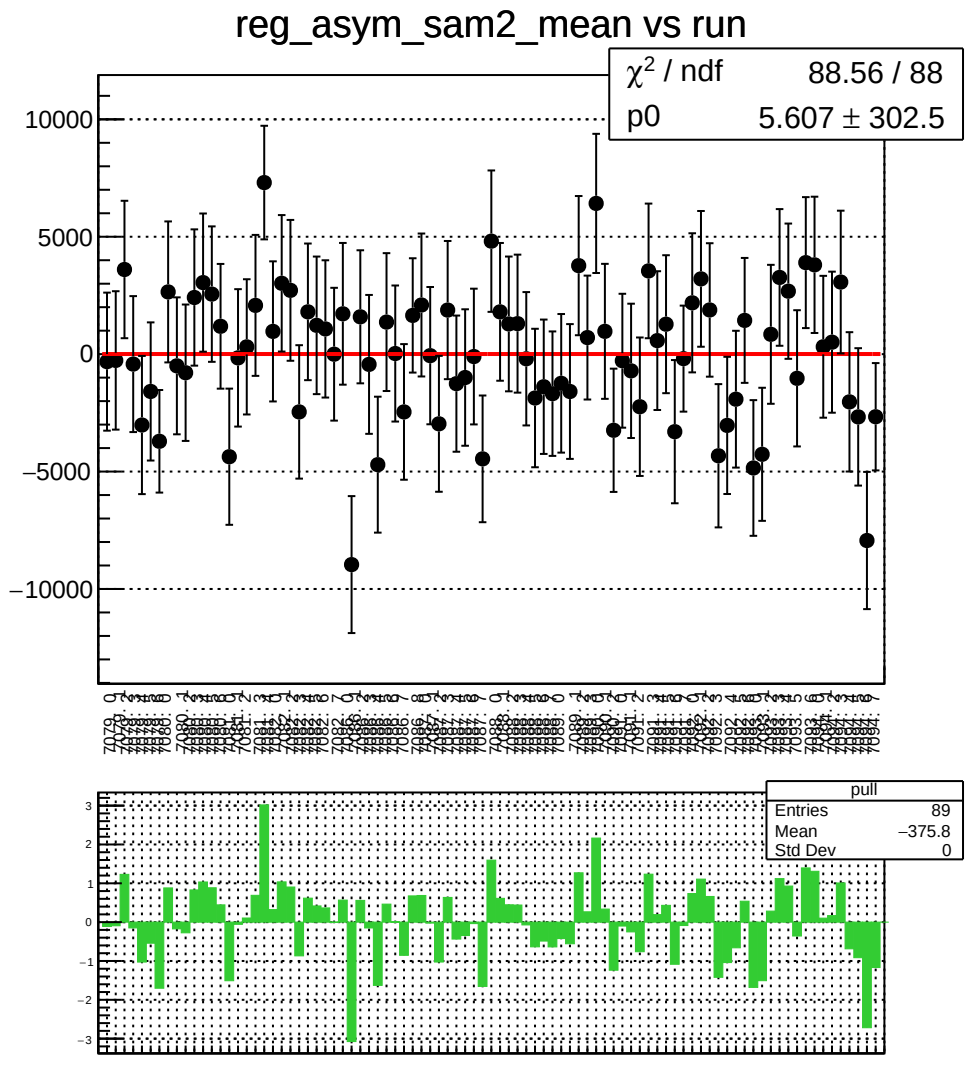

pull1D
Entries 89
Mean 0.03734
Std Dev 0.9287

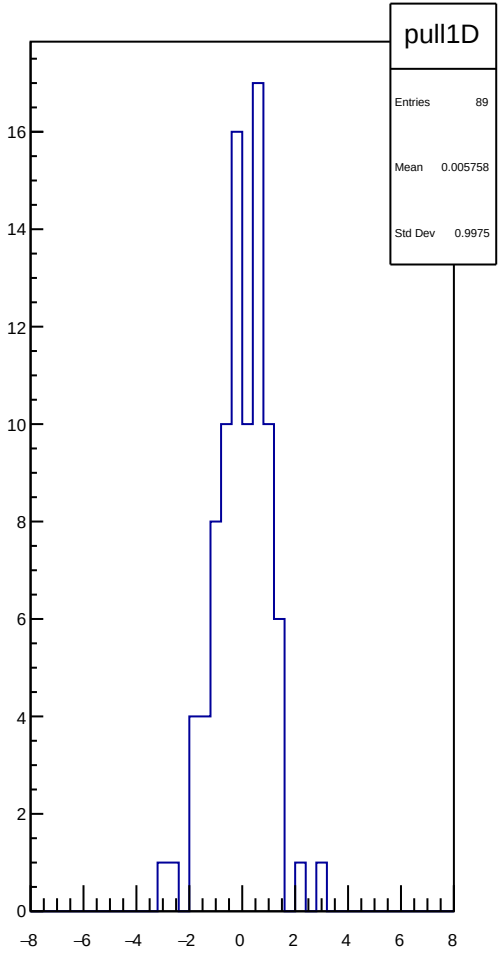

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.026e+05 / 88
p0 14.32 ± 0.01138
40
35
30
25
20
15
10

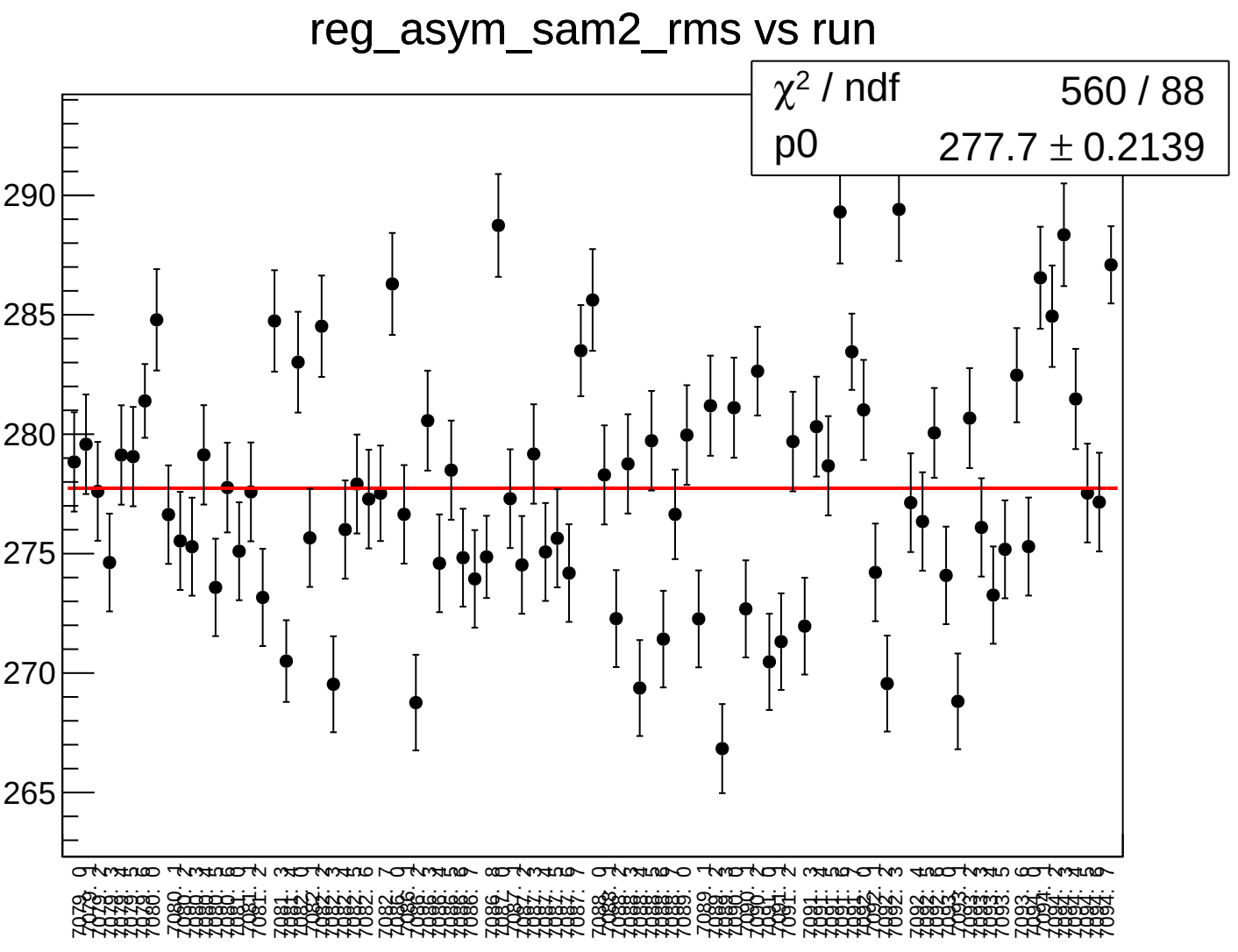

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.45 / 88
p0 −1.031e−14 ± 5.799e−15
pull
Entries 89
Mean 24.65
Std Dev 28.94

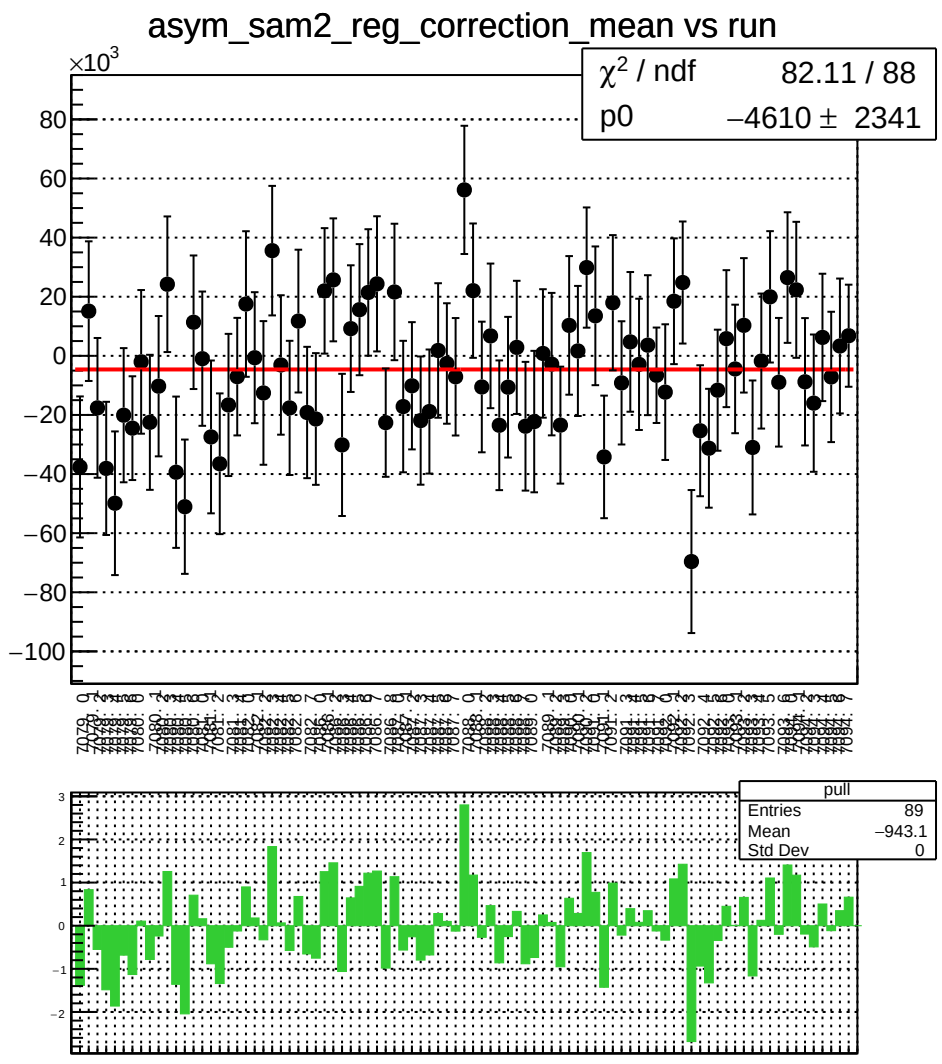

pull1D
Entries 89
Mean −0.05433
Std Dev 1.056

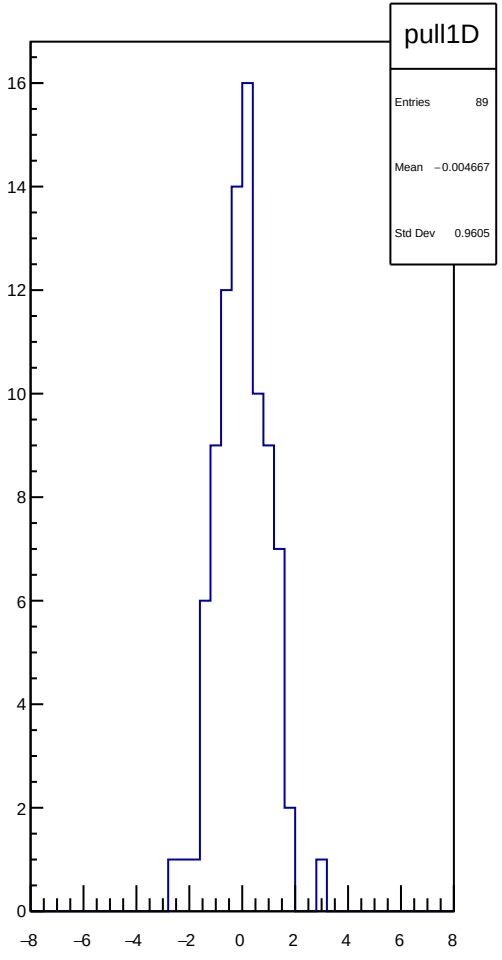

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.265e+05 / 88
p0 4.416e−12 ± 4.1e−15
35
30
25
20
15
10
5

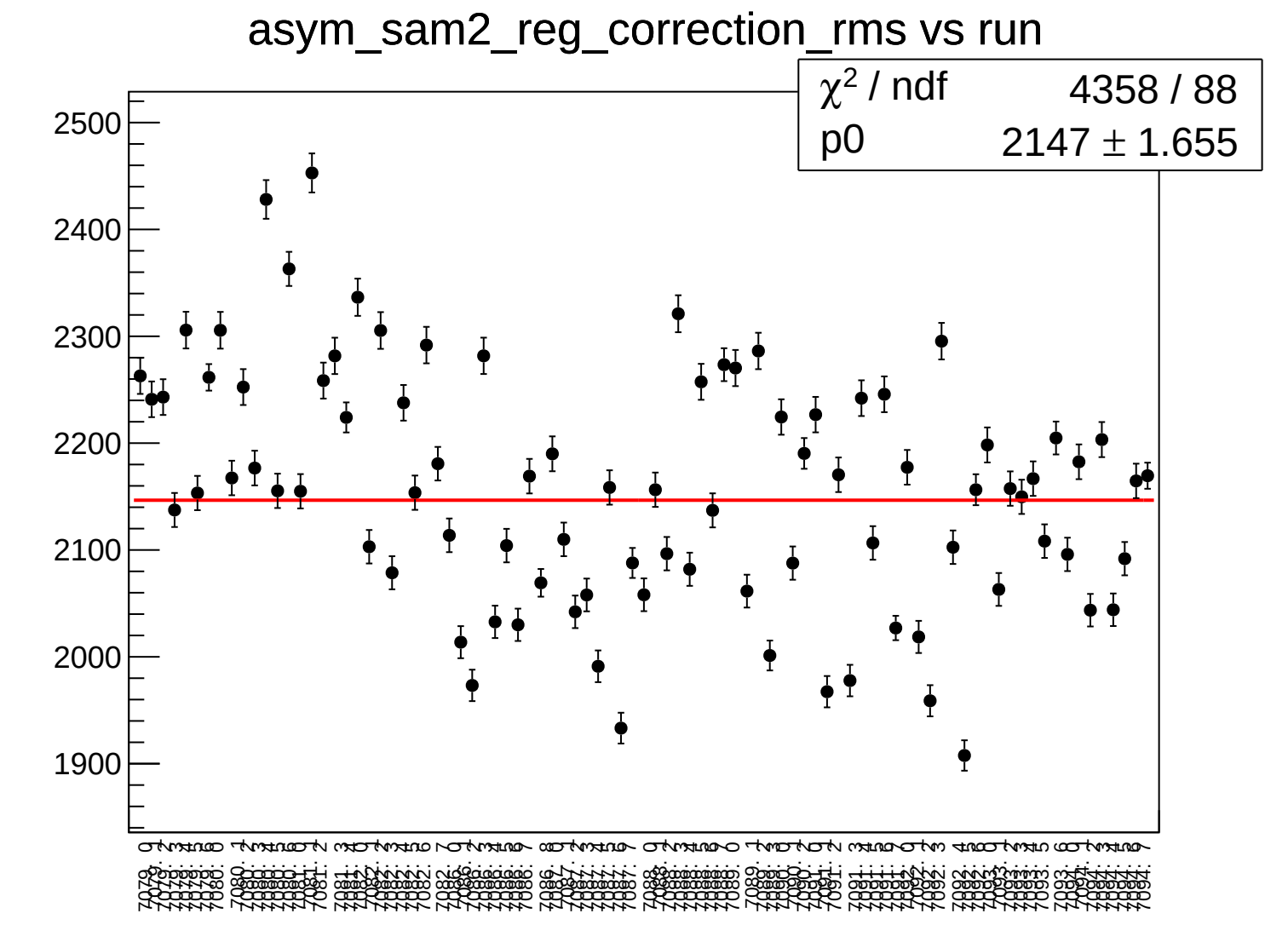

reg_asym_sam2_mean vs run
χ² / ndf 88.56 / 88
p0 5.607 ± 302.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −375.8
Std Dev 0
3
2
1
0
−1
−2
−3

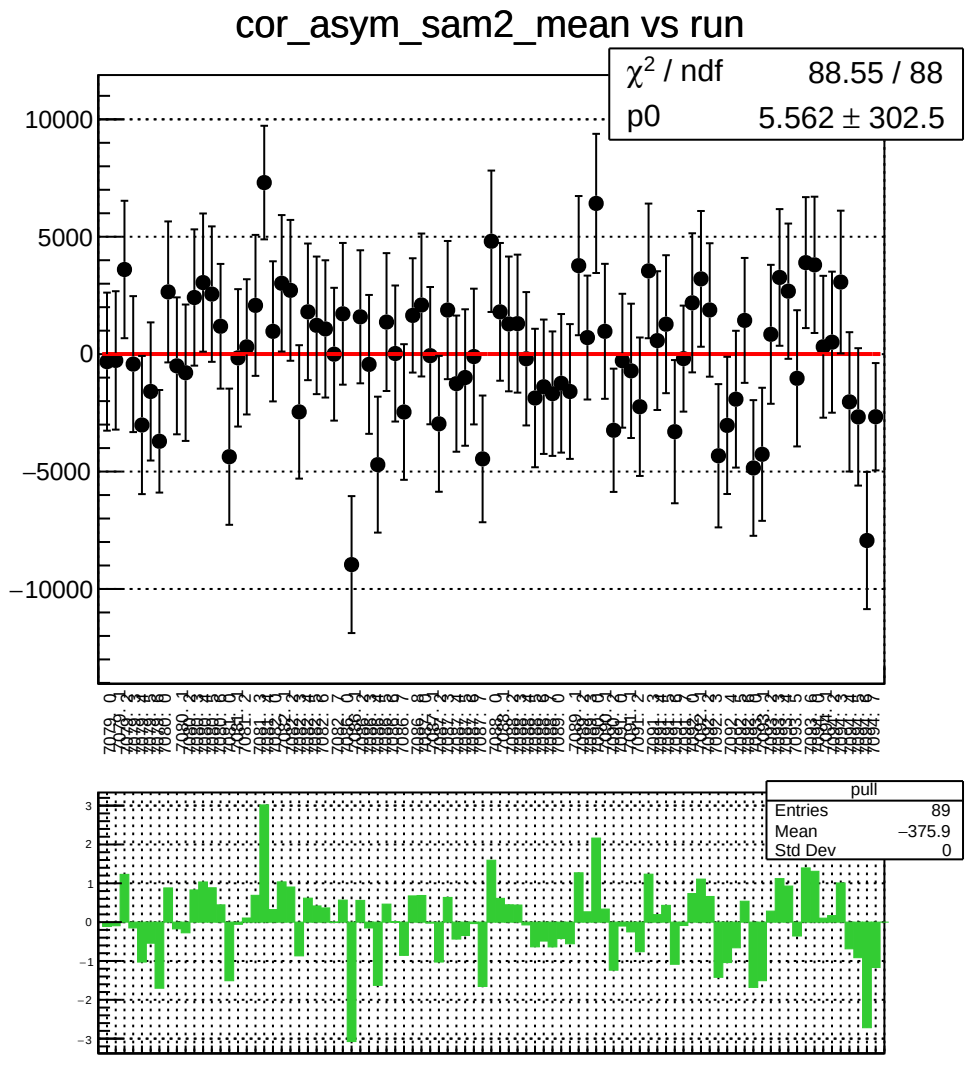

pull1D
Entries 89
Mean 0.005758
Std Dev 0.9975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

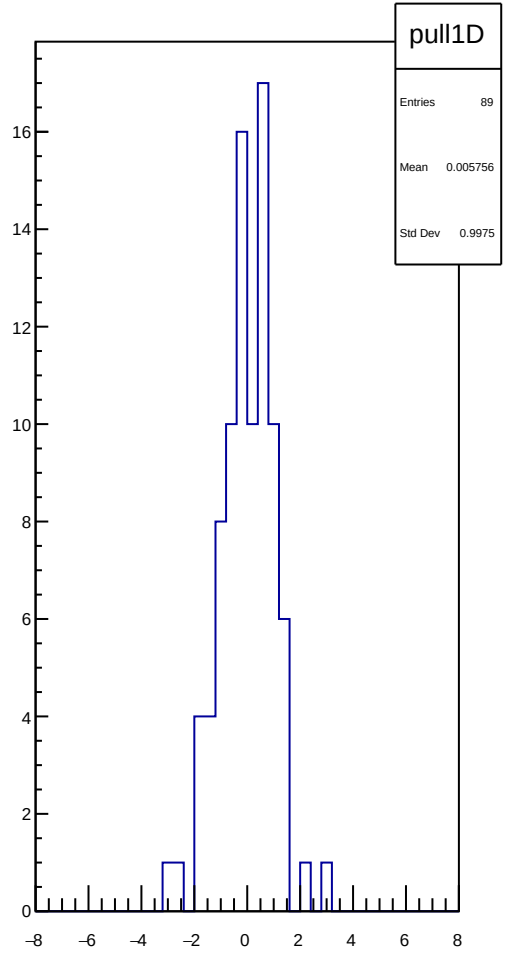

reg_asym_sam2_rms vs run
χ² / ndf 560 / 88
p0 277.7 ± 0.2139
290
285
280
275
270
265

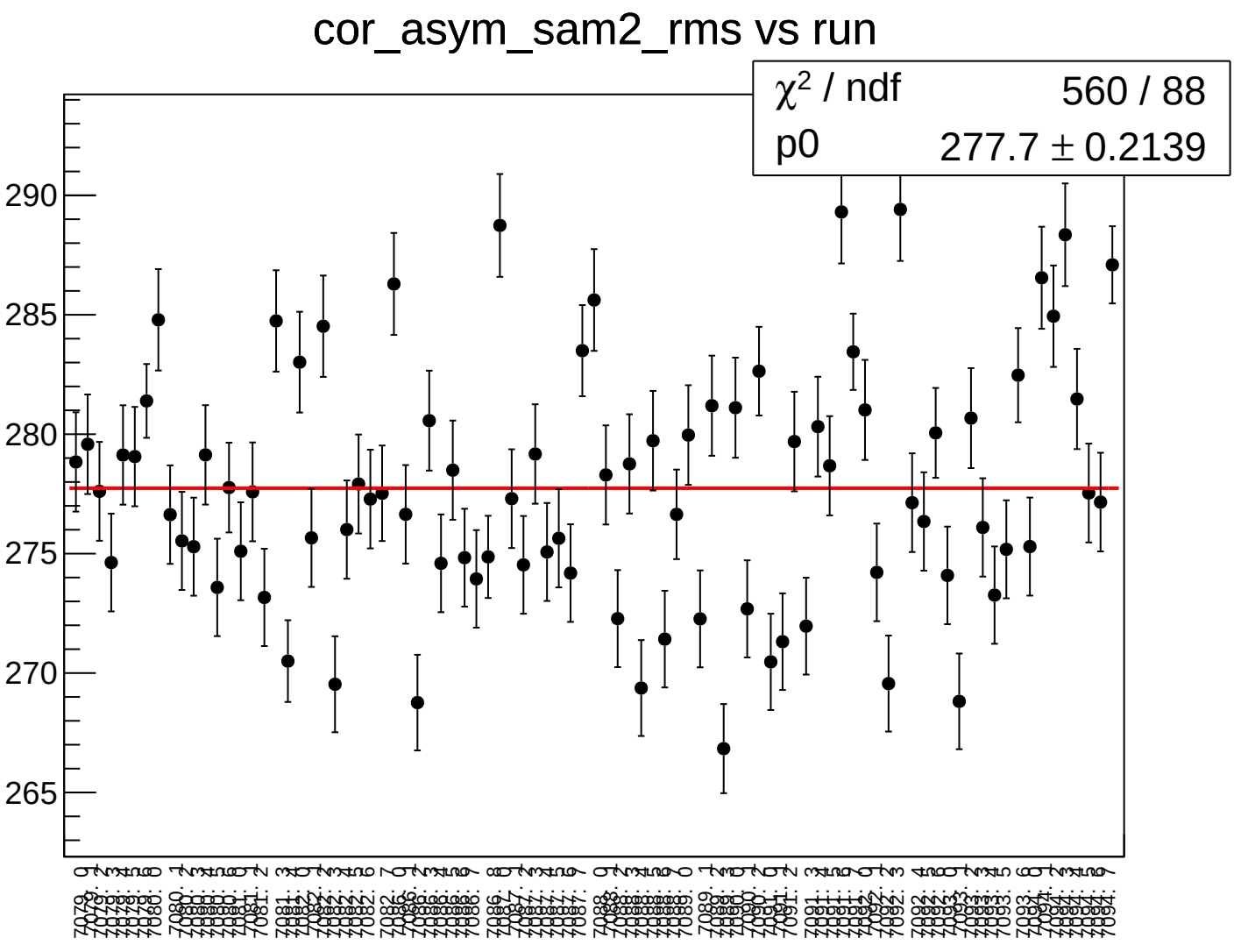

asym_sam2_reg_correction_mean vs run
χ^2 / ndf 82.11 / 88
p0 −4610 ± 2341
×10^3
pull
Entries 89
Mean −943.1
Std Dev 0

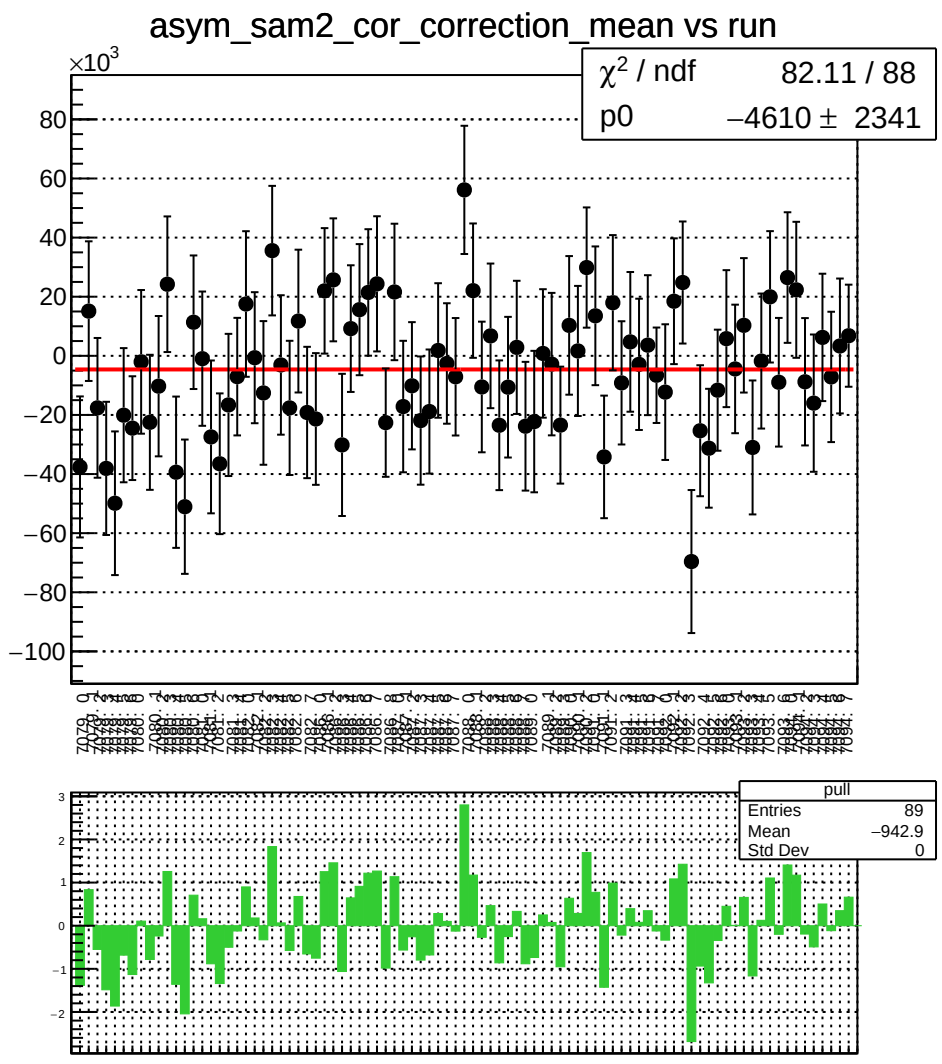

pull1D
Entries 89
Mean −0.004667
Std Dev 0.9605

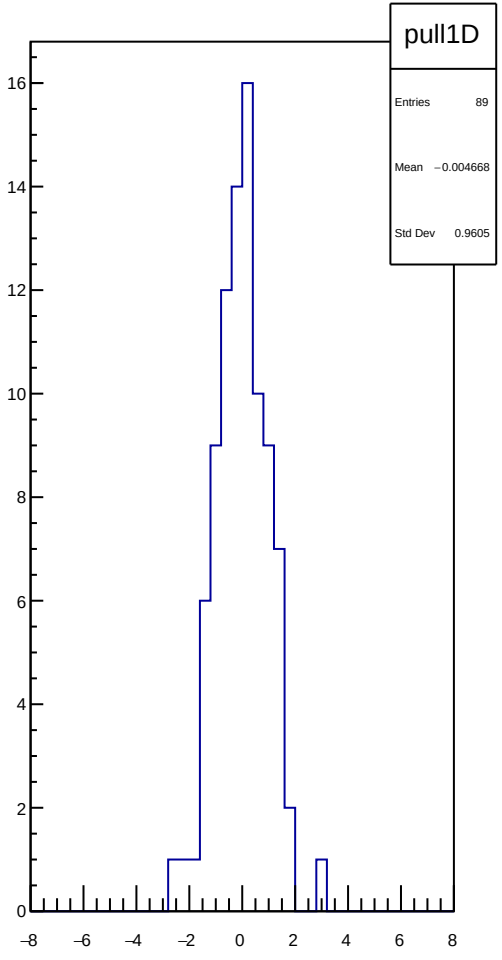

asym_sam2_reg_correction_rms vs run
χ² / ndf 4358 / 88
p0 2147 ± 1.655
2500
2400
2300
2200
2100
2000
1900

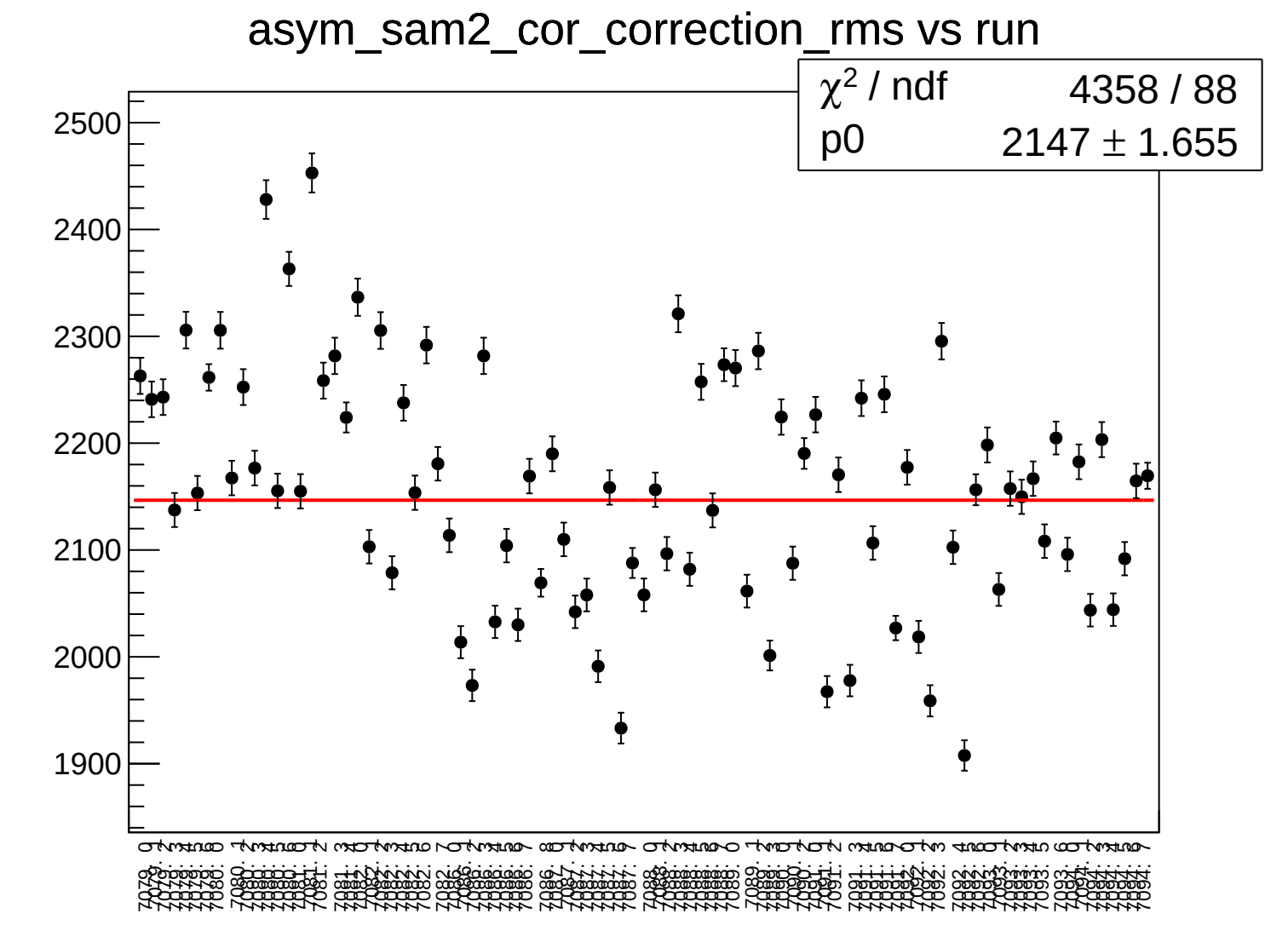

cor_asym_sam2_mean vs run
χ² / ndf 88.55 / 88
p0 5.562 ± 302.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −375.9
Std Dev 0
3
2
1
0
−1
−2
−3

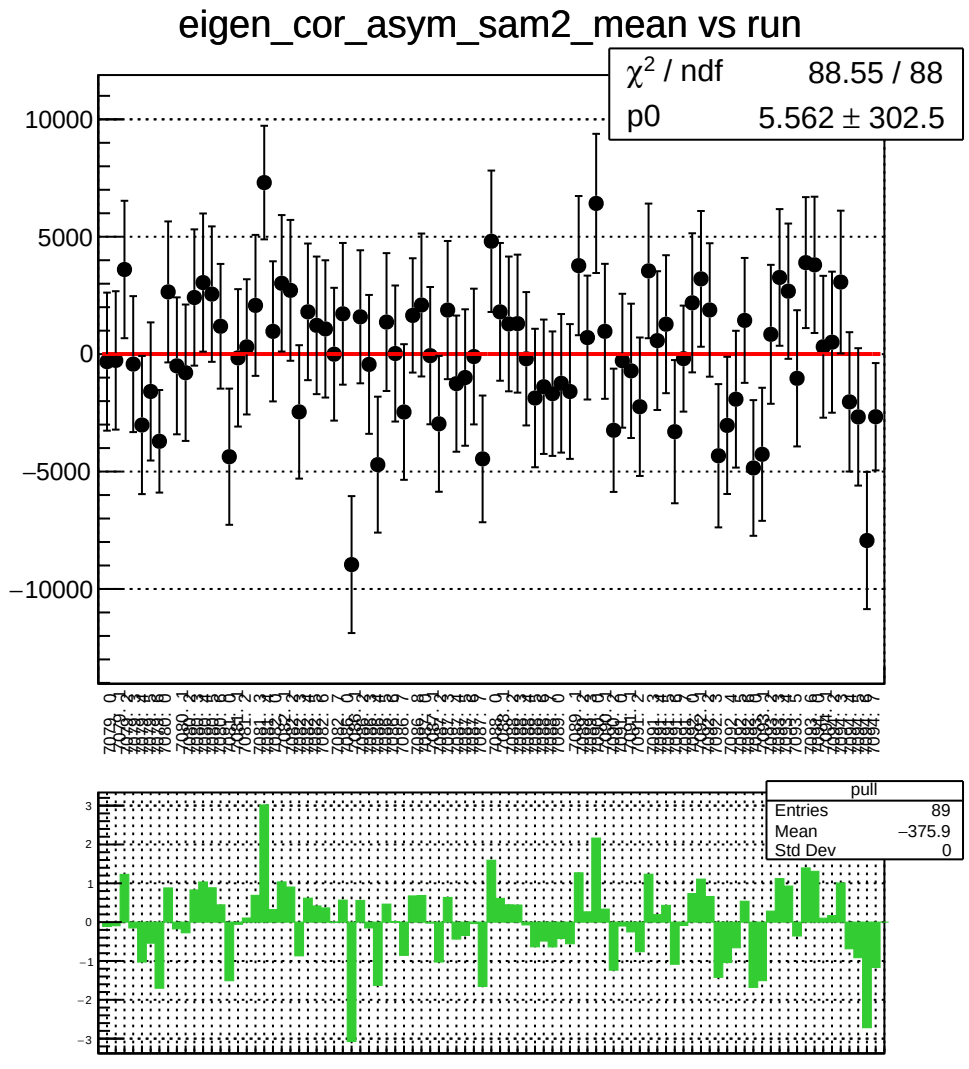

pull1D
Entries 89
Mean 0.005756
Std Dev 0.9975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

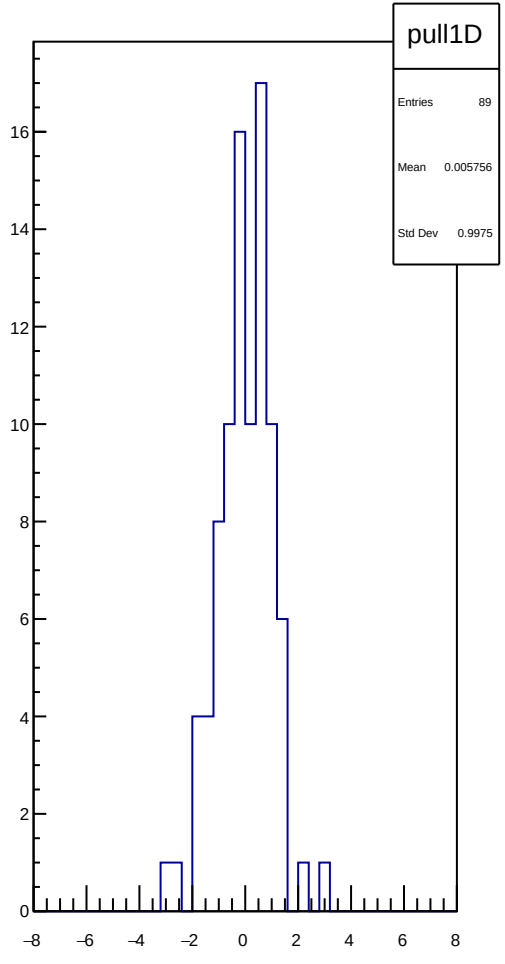

cor_asym_sam2_rms vs run
χ² / ndf 560 / 88
p0 277.7 ± 0.2139
290
285
280
275
270
265

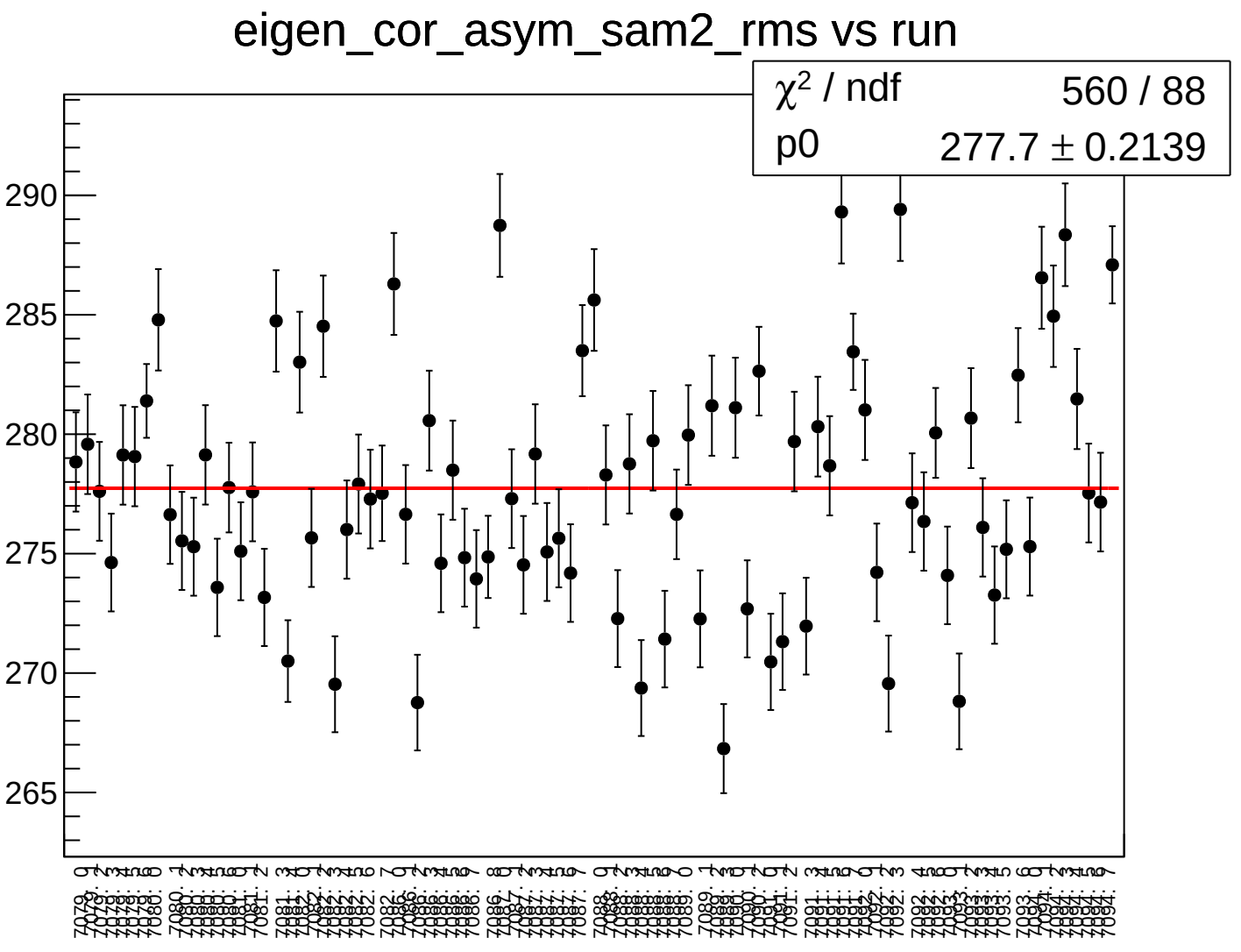

asym_sam2_cor_correction_mean vs run
χ² / ndf 82.11 / 88
p0 −4610 ± 2341
×10³
pull
Entries 89
Mean −942.9
Std Dev 0

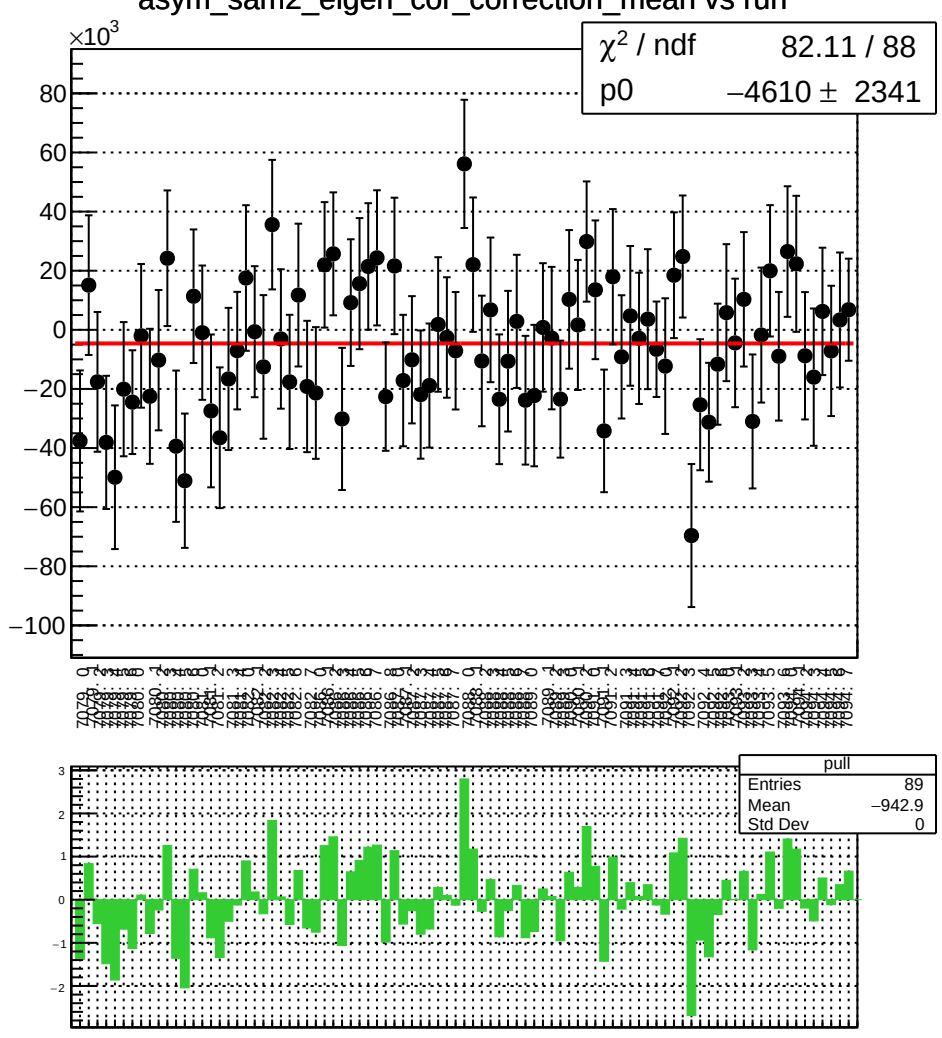

pull1D
Entries 89
Mean −0.004668
Std Dev 0.9605

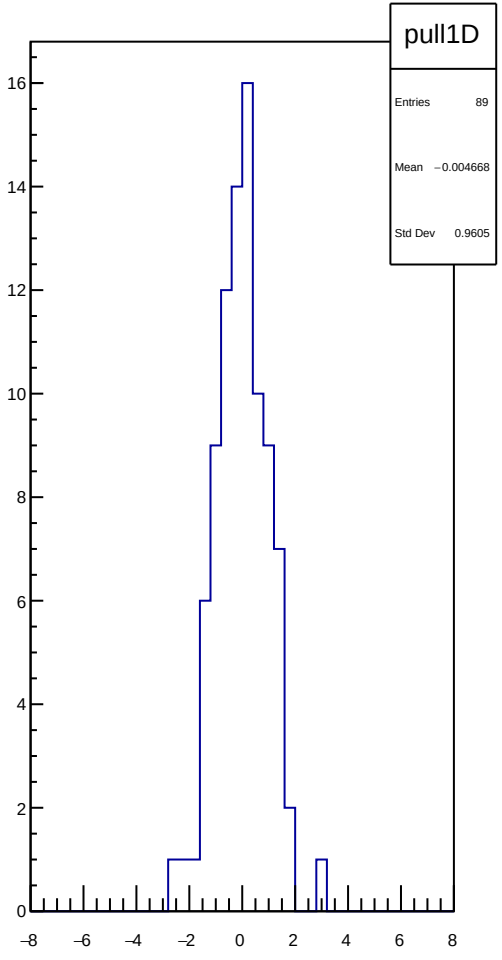

asym_sam2_cor_correction_rms vs run
χ² / ndf 4358 / 88
p0 2147 ± 1.655
2500
2400
2300
2200
2100
2000
1900

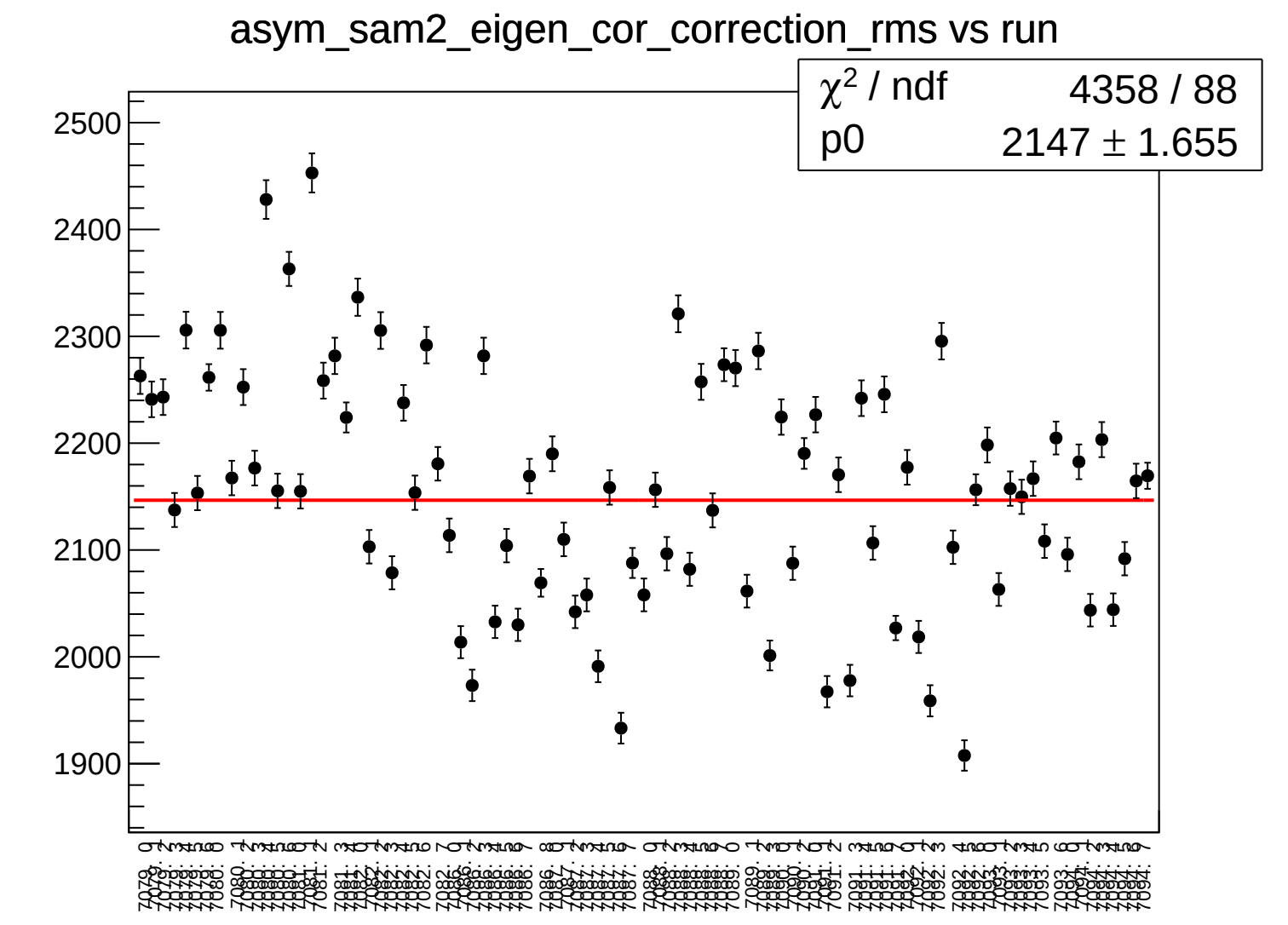

eigen_cor_asym_sam2_mean vs run
χ² / ndf 88.55 / 88
p0 5.562 ± 302.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −375.9
Std Dev 0
3
2
1
0
−1
−2
−3

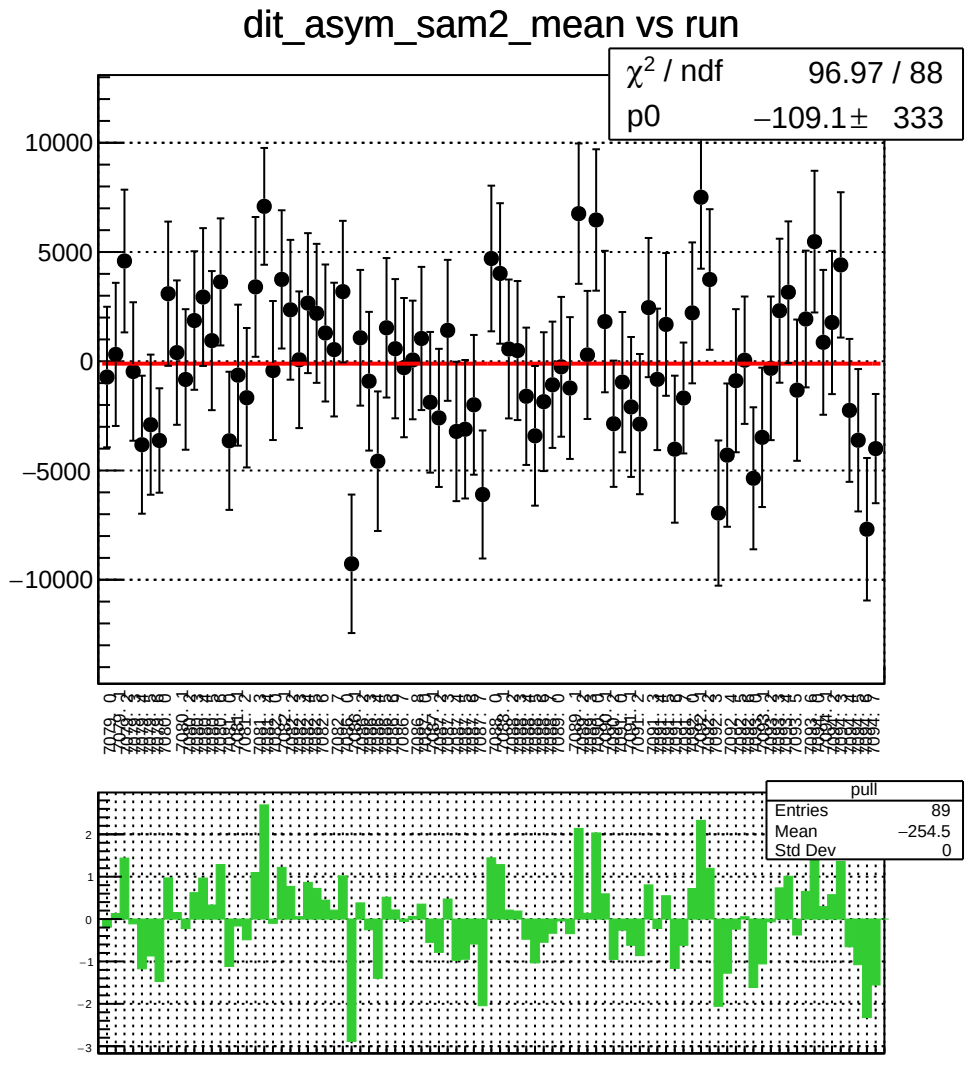

pull1D
Entries 89
Mean 0.005756
Std Dev 0.9975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

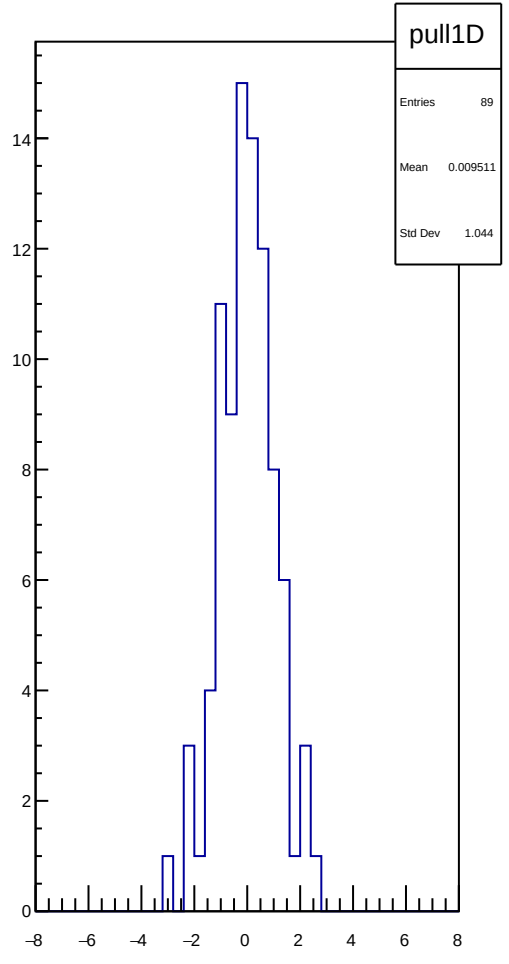

eigen_cor_asym_sam2_rms vs run
χ² / ndf 560 / 88
p0 277.7 ± 0.2139
290
285
280
275
270
265

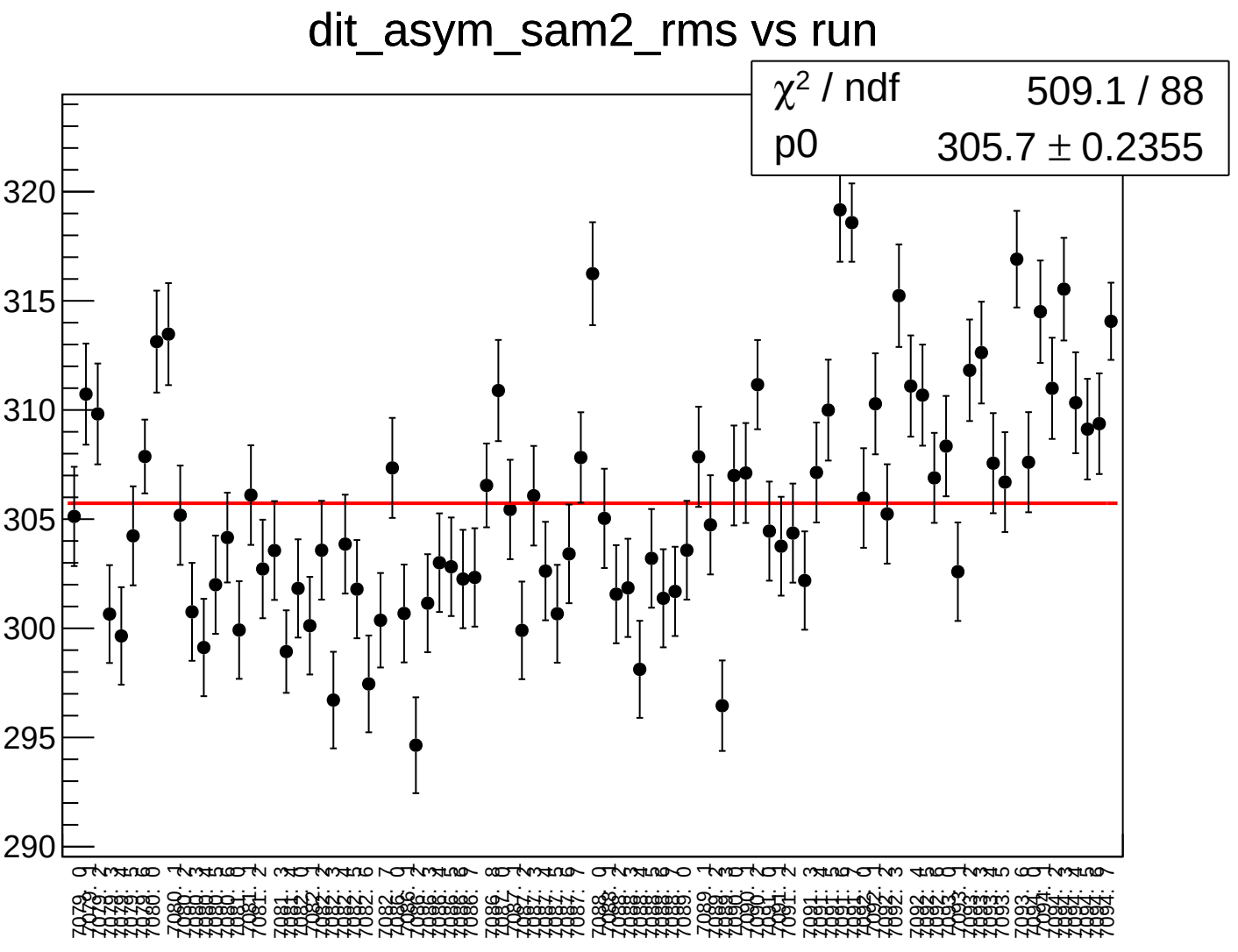

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.11 / 88
p0 −4610 ± 2341
pull
Entries 89
Mean −942.9
Std Dev 0

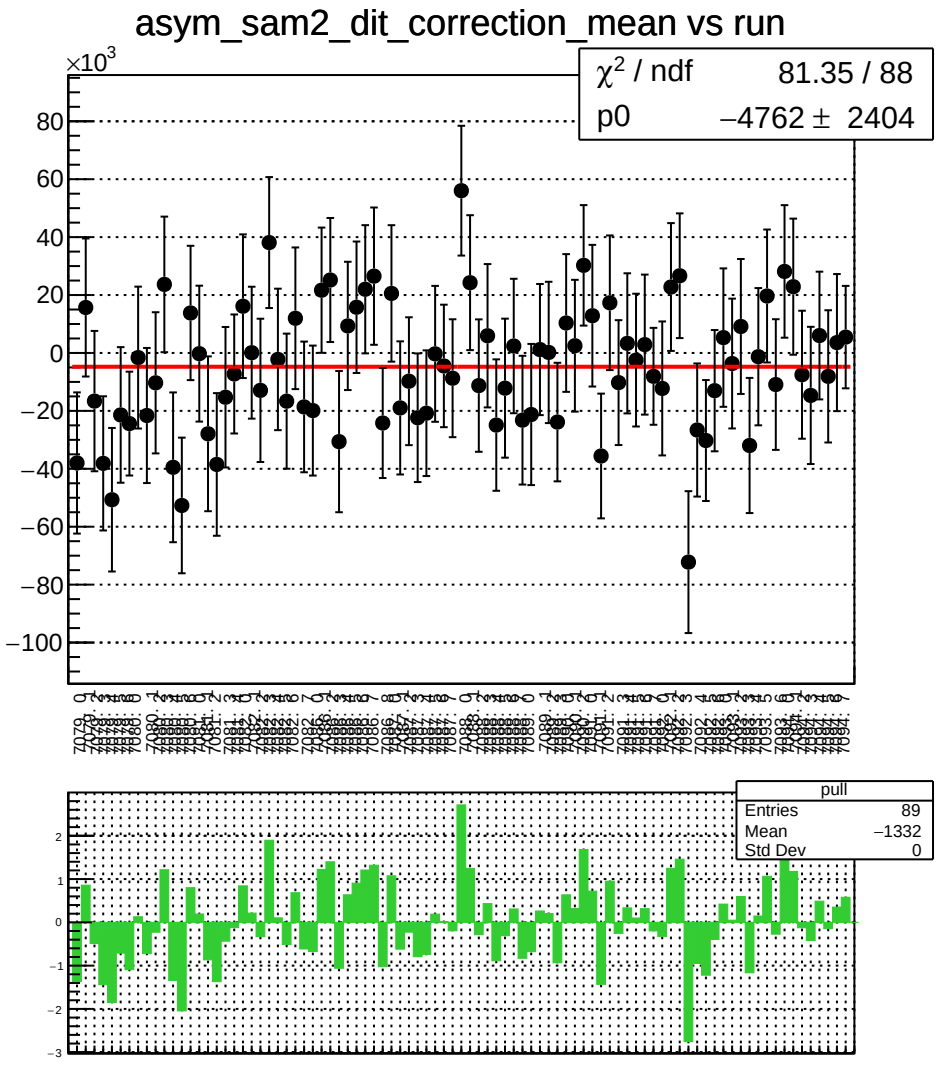

pull1D
Entries 89
Mean −0.004668
Std Dev 0.9605

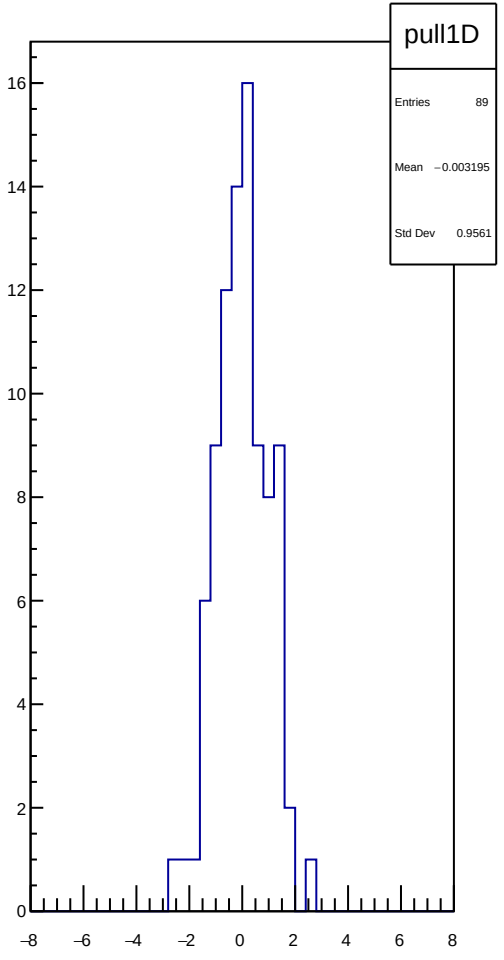

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 4358 / 88
p0 2147 ± 1.655
2500
2400
2300
2200
2100
2000
1900

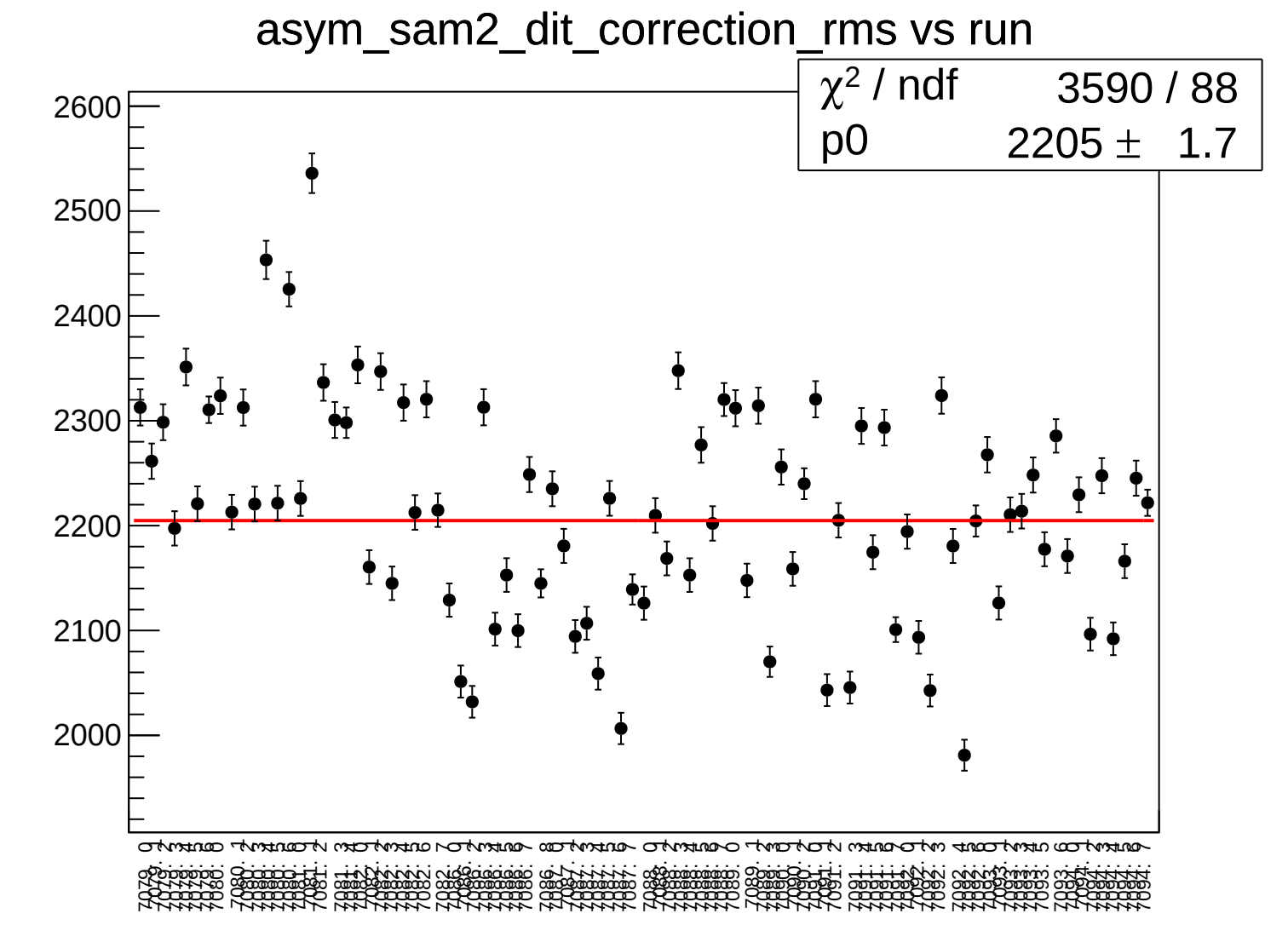

dit_asym_sam2_mean vs run
χ^2 / ndf 96.97 / 88
p0 −109.1± 333
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −254.5
Std Dev 0
2
1
0
−1
−2
−3

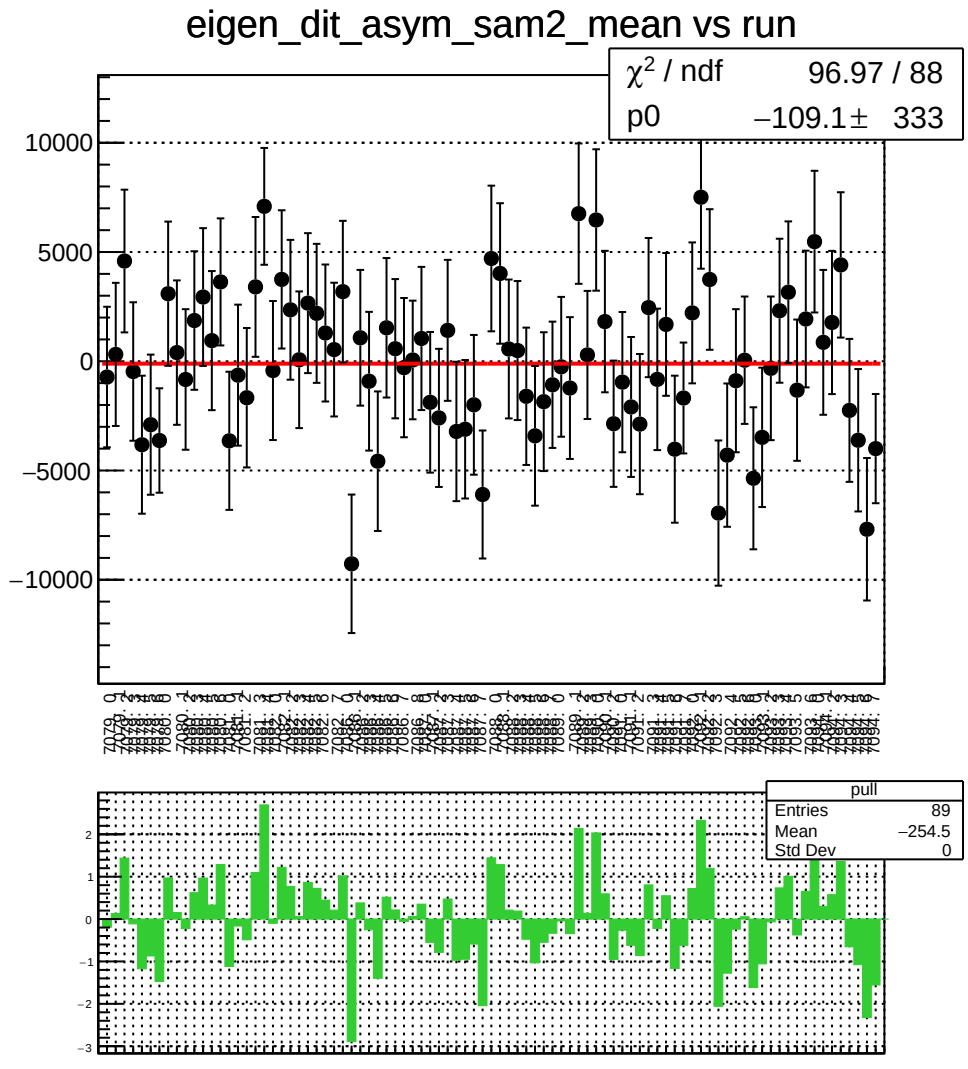

pull1D
Entries 89
Mean 0.009511
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

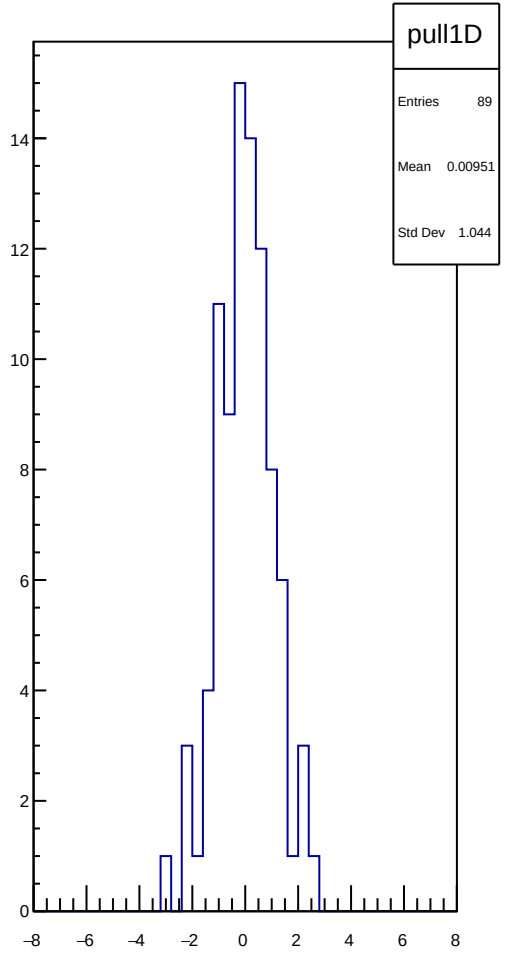

dit_asym_sam2_rms vs run
χ² / ndf 509.1 / 88
p0 305.7 ± 0.2355
320
315
310
305
300
295
290

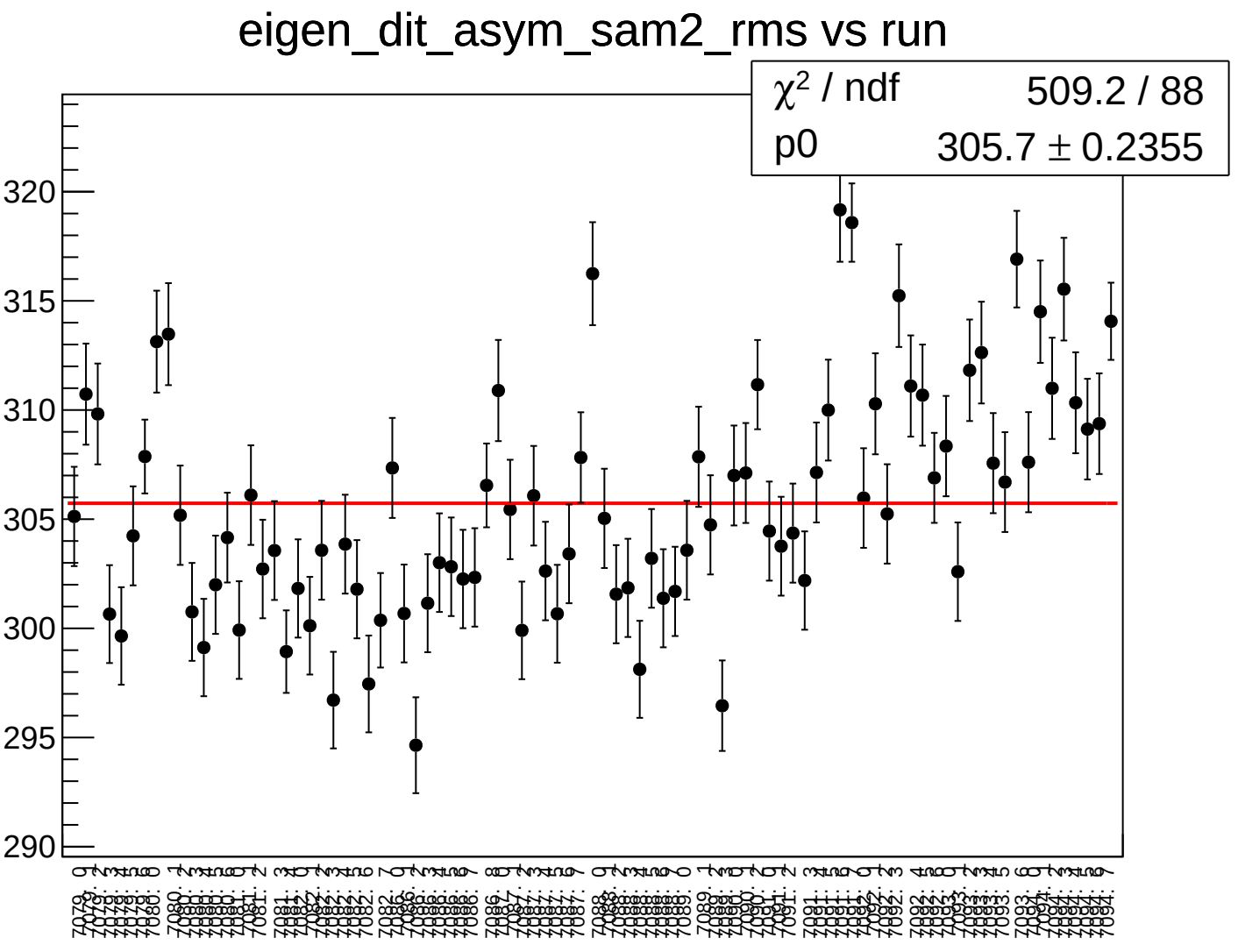

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 81.35 / 88
p0 −4762 ± 2404
pull
Entries 89
Mean −1332
Std Dev 0

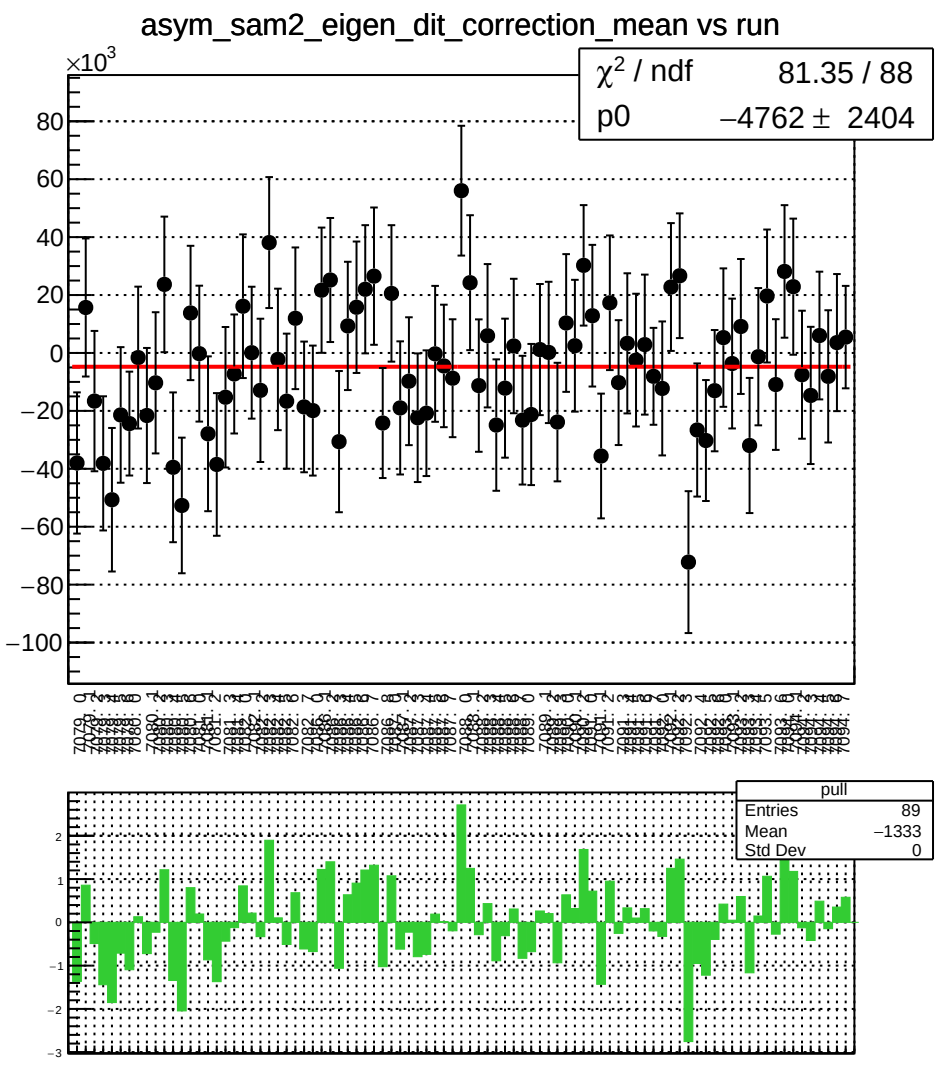

pull1D
Entries 89
Mean −0.003195
Std Dev 0.9561

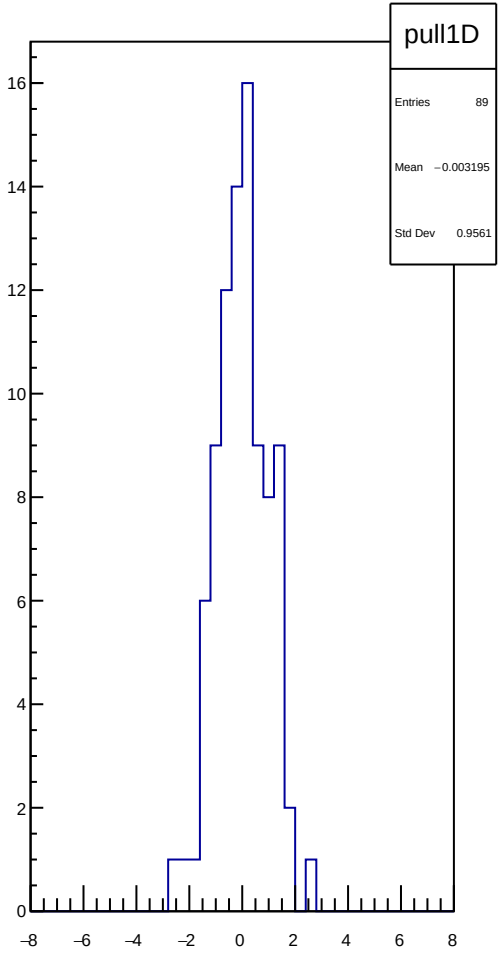

asym_sam2_dit_correction_rms vs run
χ² / ndf 3590 / 88
p0 2205 ± 1.7
2600
2500
2400
2300
2200
2100
2000

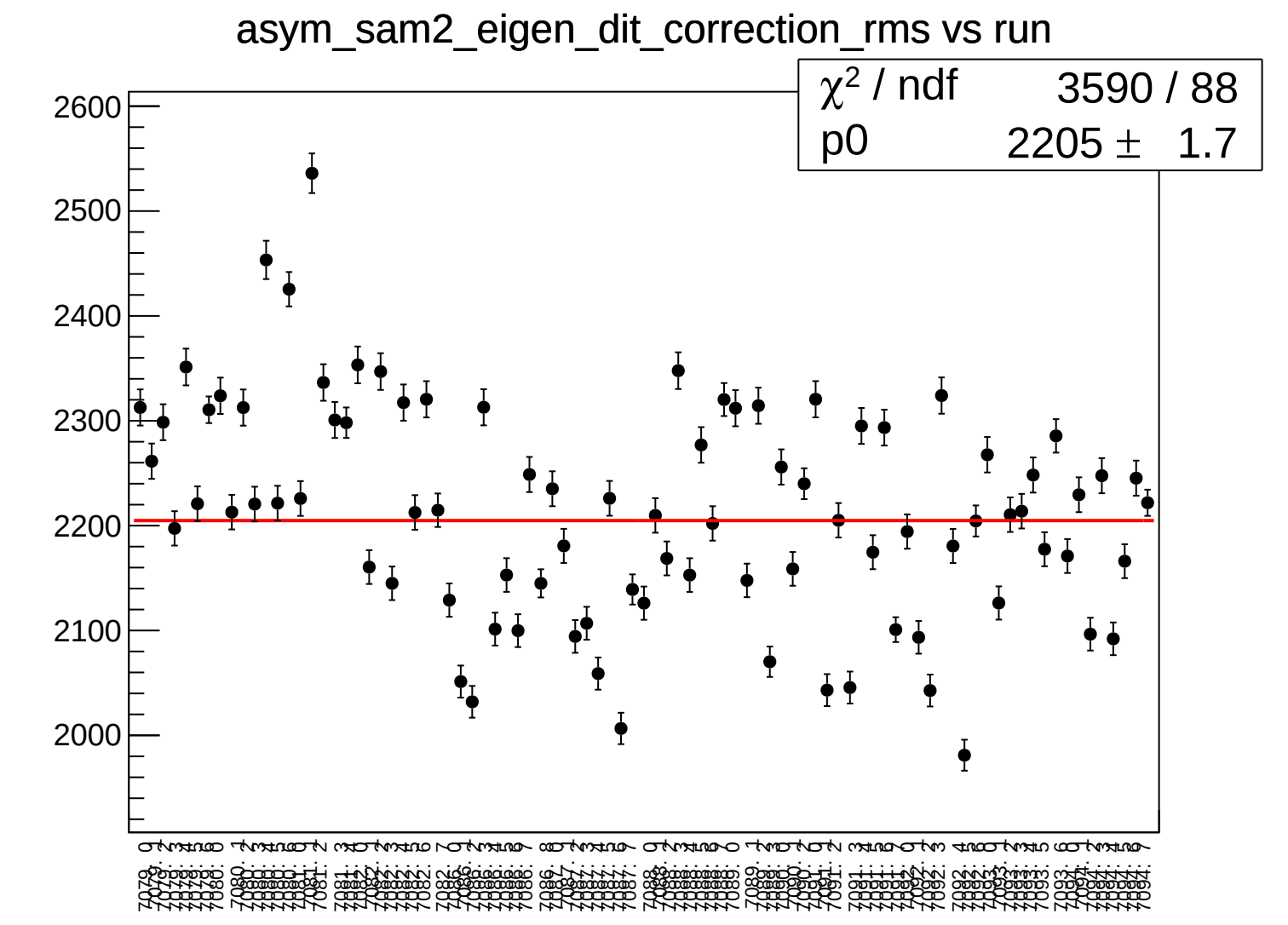

eigen_dit_asym_sam2_mean vs run
χ² / ndf 96.97 / 88
p0 −109.1 ± 333
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −254.5
Std Dev 0
2
1
0
−1
−2
−3

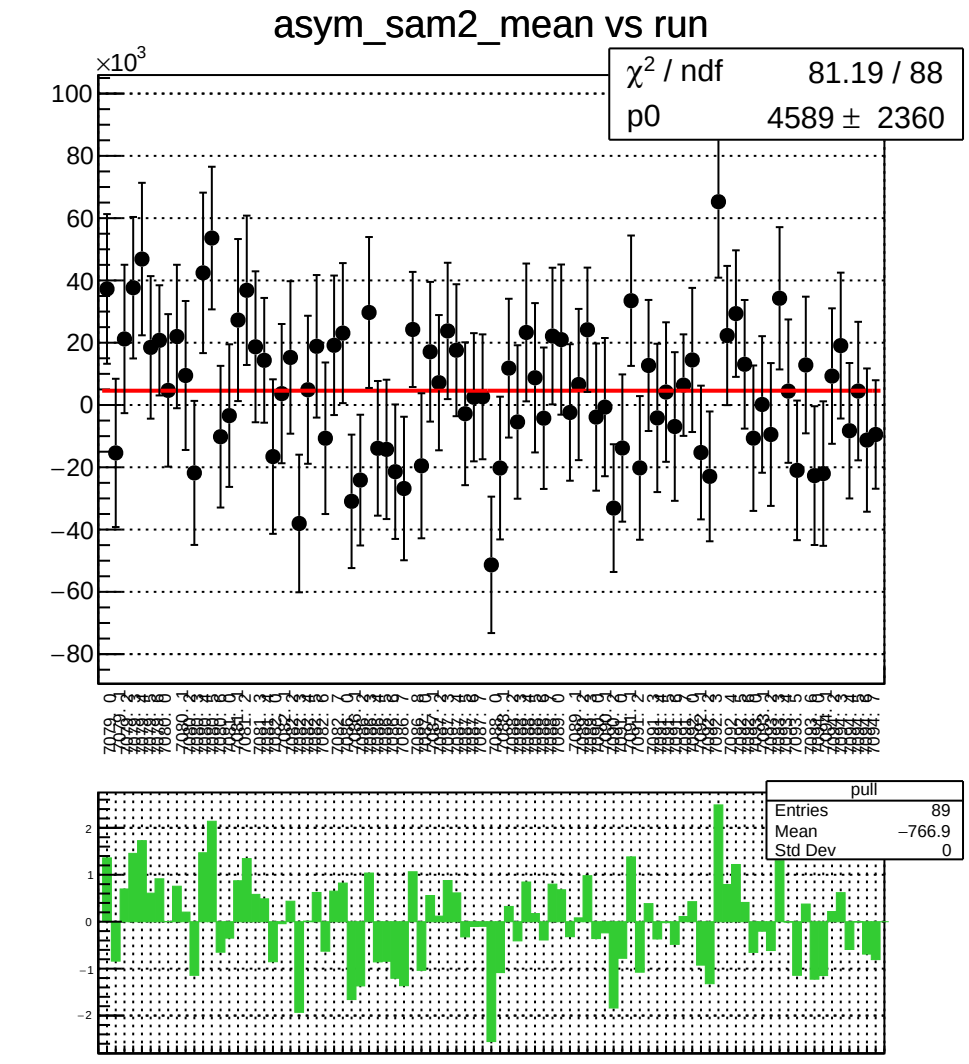

pull1D
Entries 89
Mean 0.00951
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

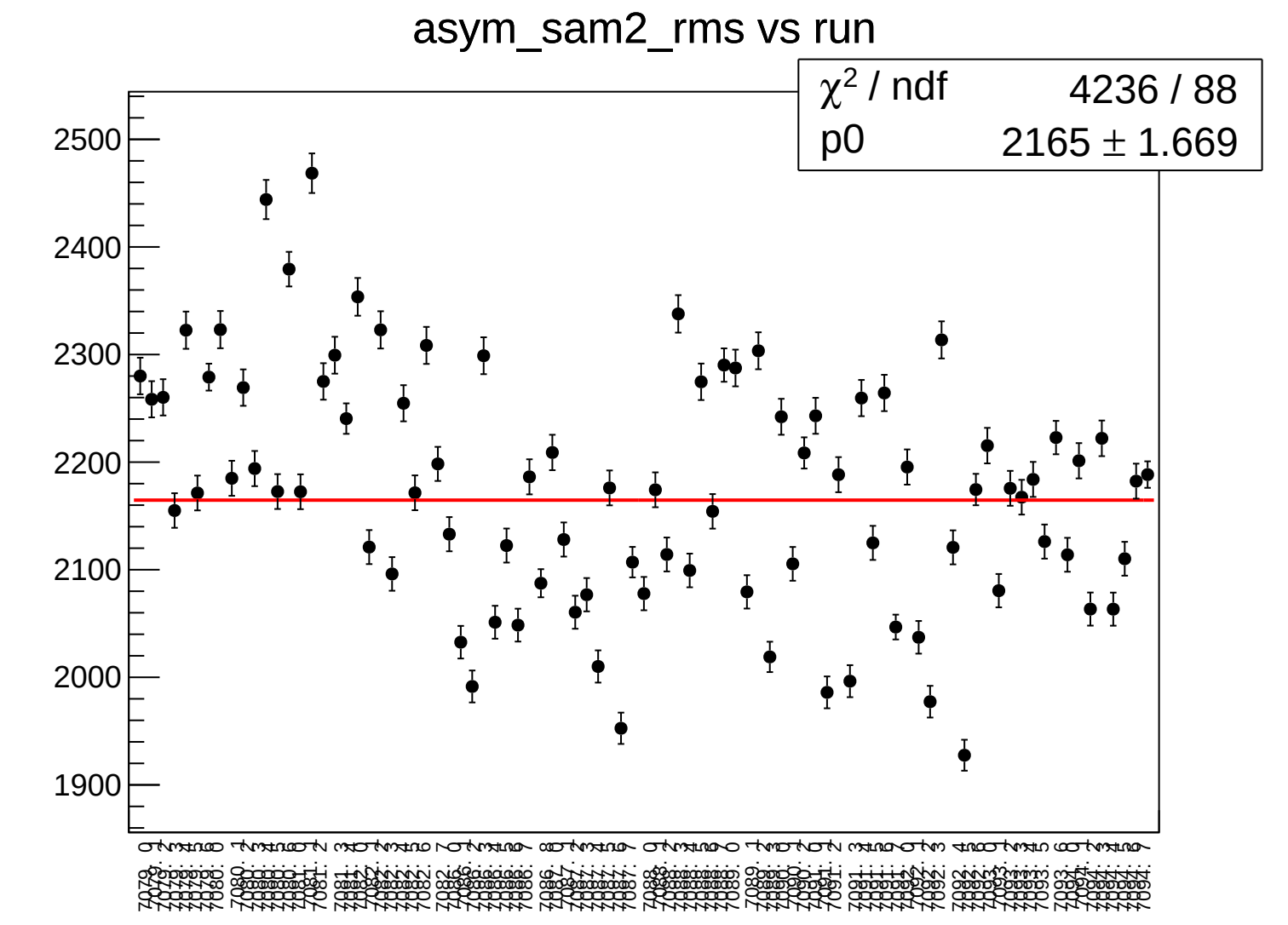

eigen_dit_asym_sam2_rms vs run
χ² / ndf 509.2 / 88
p0 305.7 ± 0.2355
320
315
310
305
300
295
290

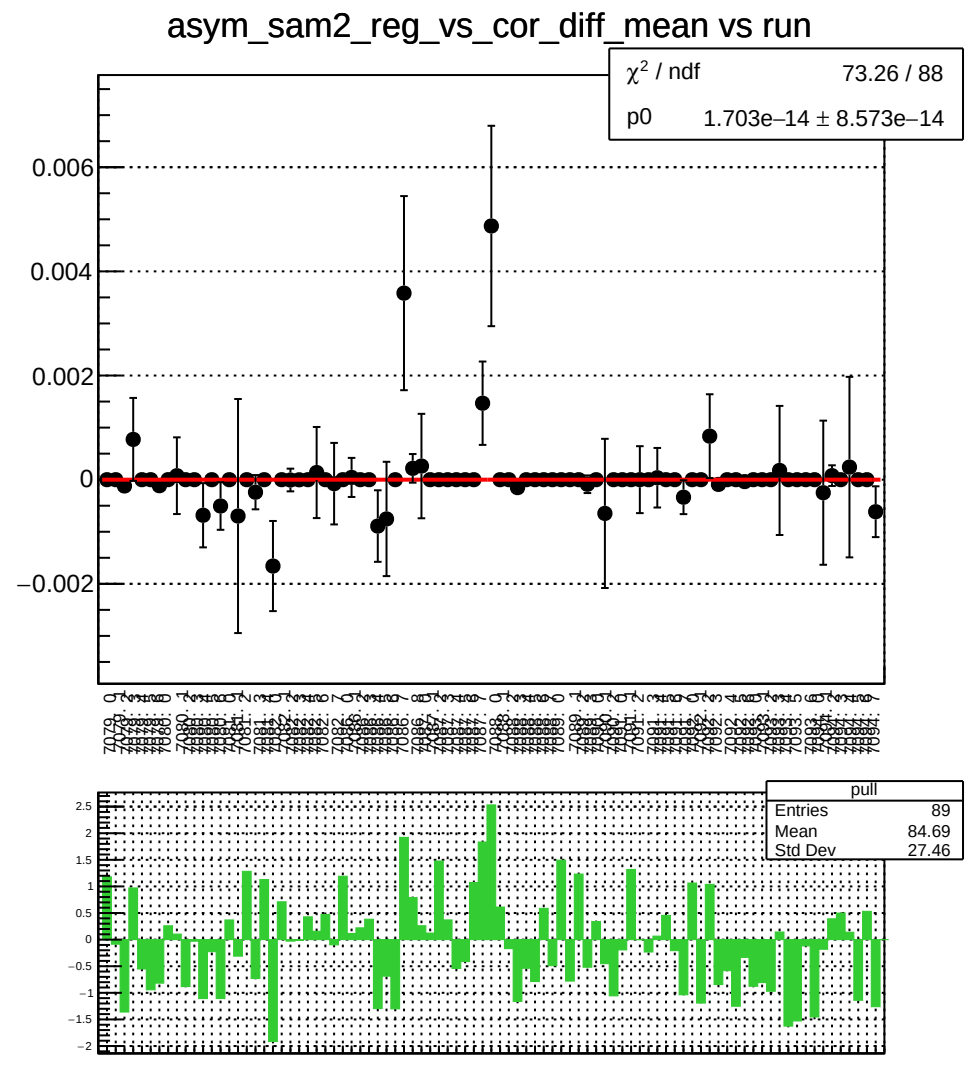

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 81.35 / 88
p0 −4762 ± 2404
×10³
pull
Entries 89
Mean −1333
Std Dev 0

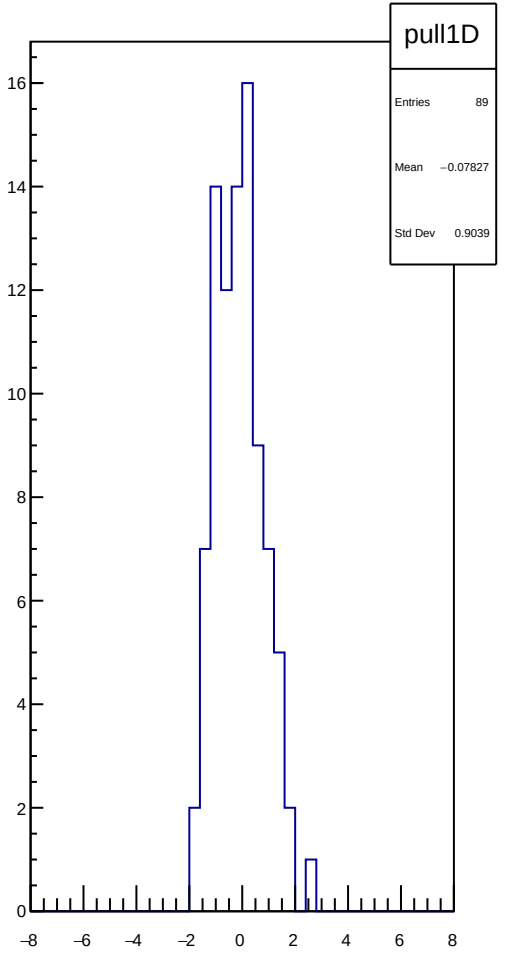

pull1D
Entries 89
Mean −0.003195
Std Dev 0.9561

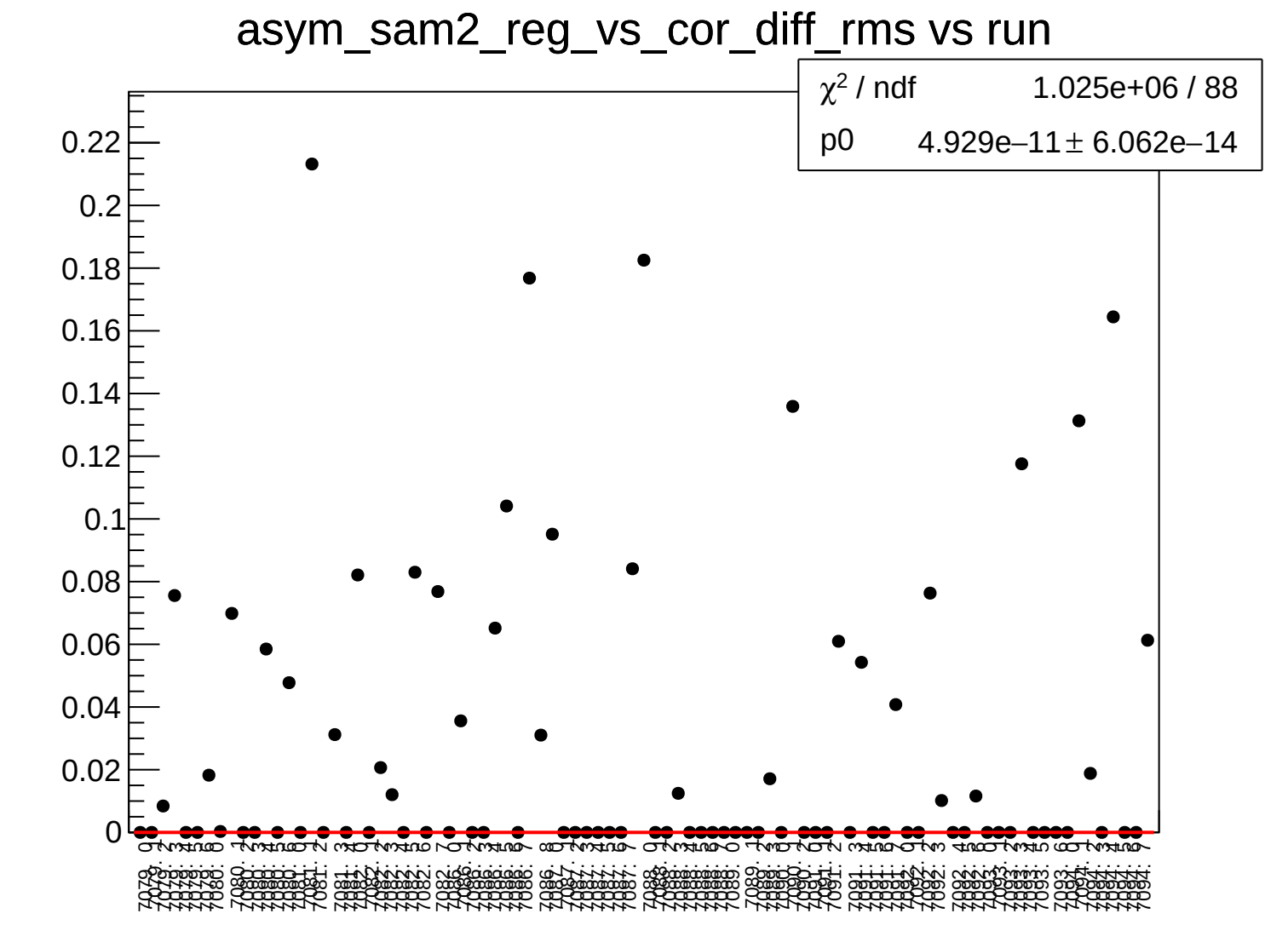

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 3590 / 88
p0 2205 ± 1.7
2600
2500
2400
2300
2200
2100
2000

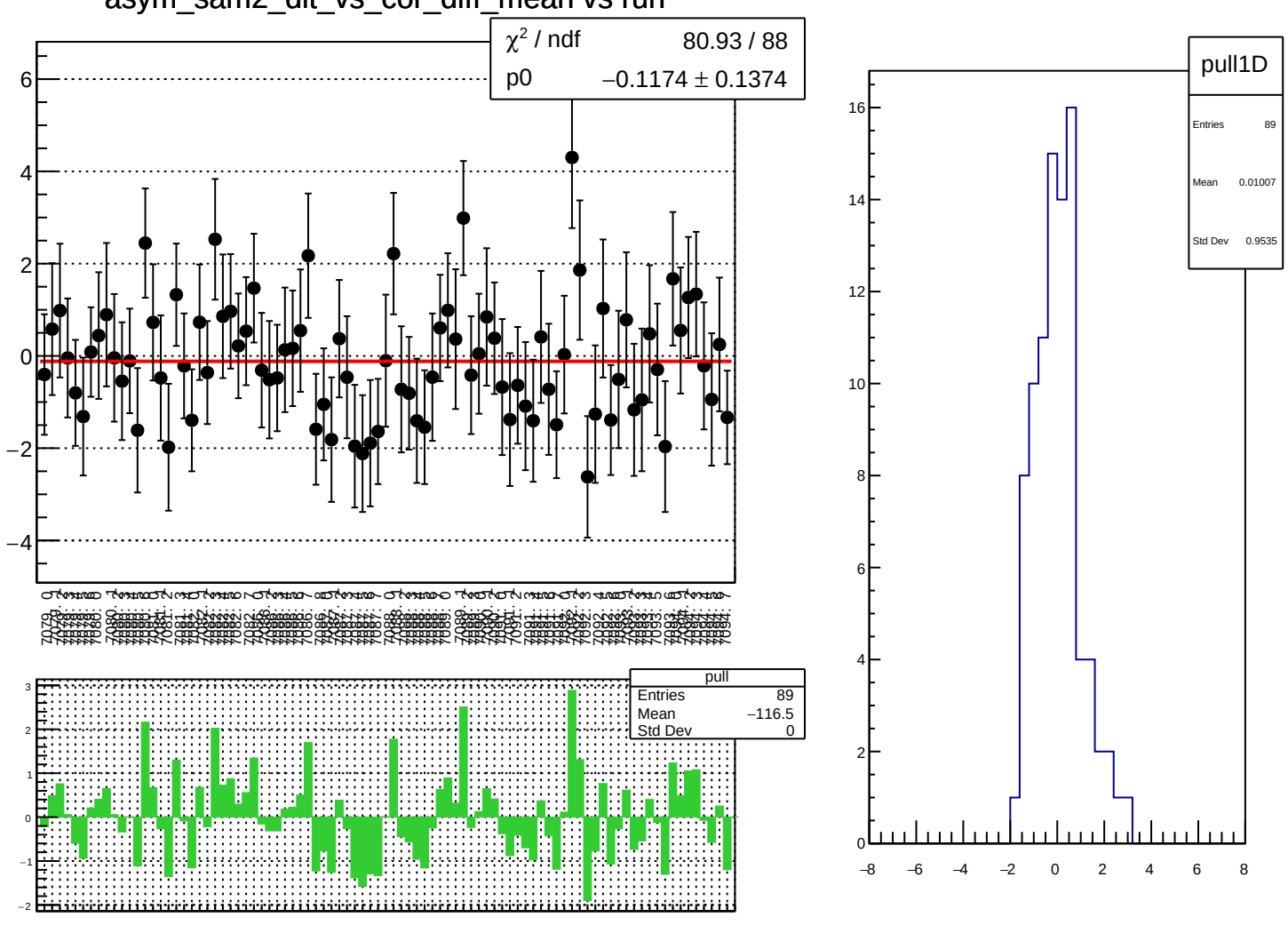

asym_sam2_mean vs run
×10^3
χ² / ndf 81.19 / 88
p0 4589 ± 2360
pull
Entries 89
Mean −766.9
Std Dev 0
pull1D
Entries 89
Mean 0.005996
Std Dev 0.9551

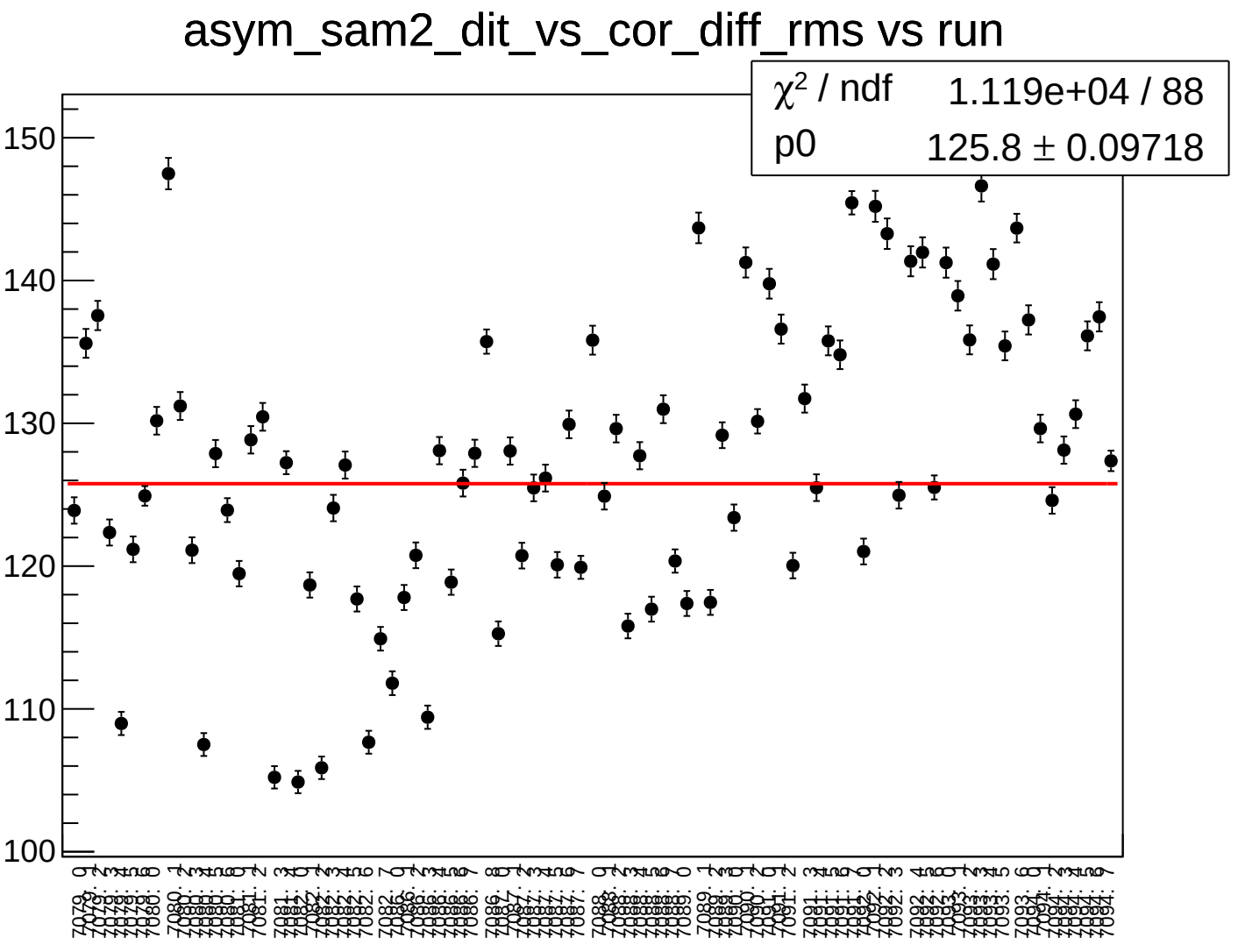

asym_sam2_rms vs run
χ² / ndf 4236 / 88
p0 2165 ± 1.669
2500
2400
2300
2200
2100
2000
1900

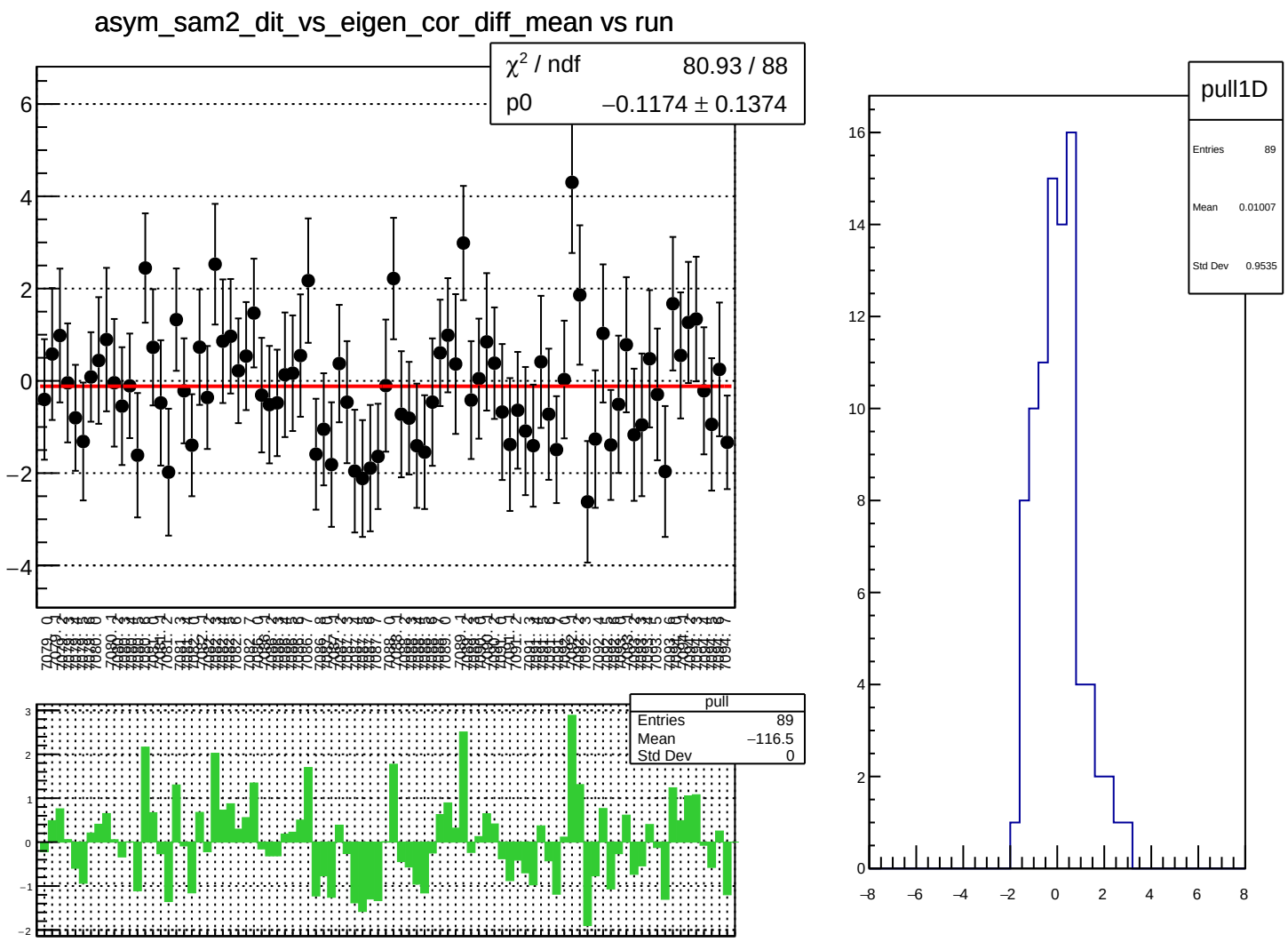

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 73.26 / 88
p0 1.703e−14 ± 8.573e−14
0.006
0.004
0.002
0
−0.002
pull
Entries 89
Mean 84.69
Std Dev 27.46
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

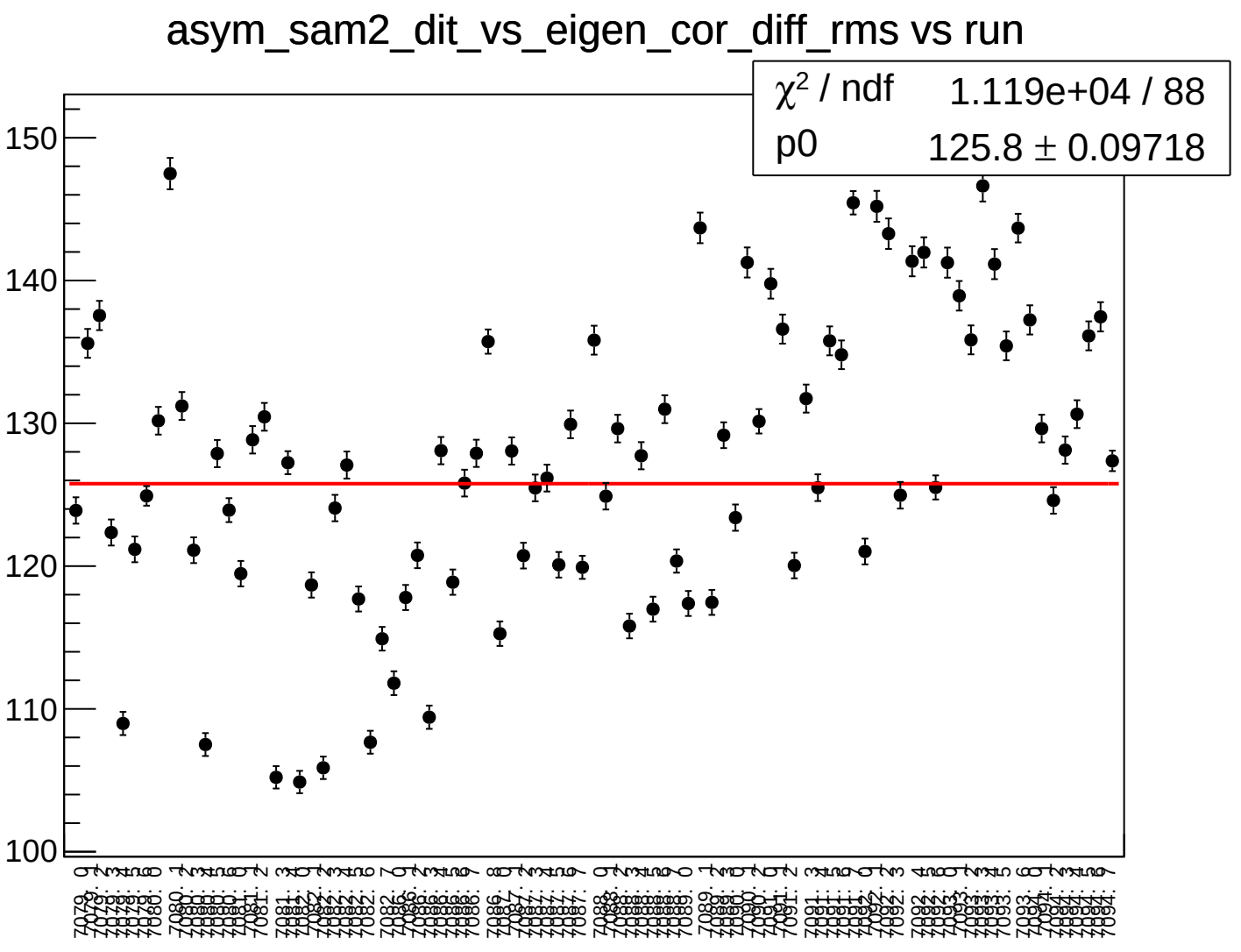

pull1D
Entries 89
Mean −0.07827
Std Dev 0.9039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

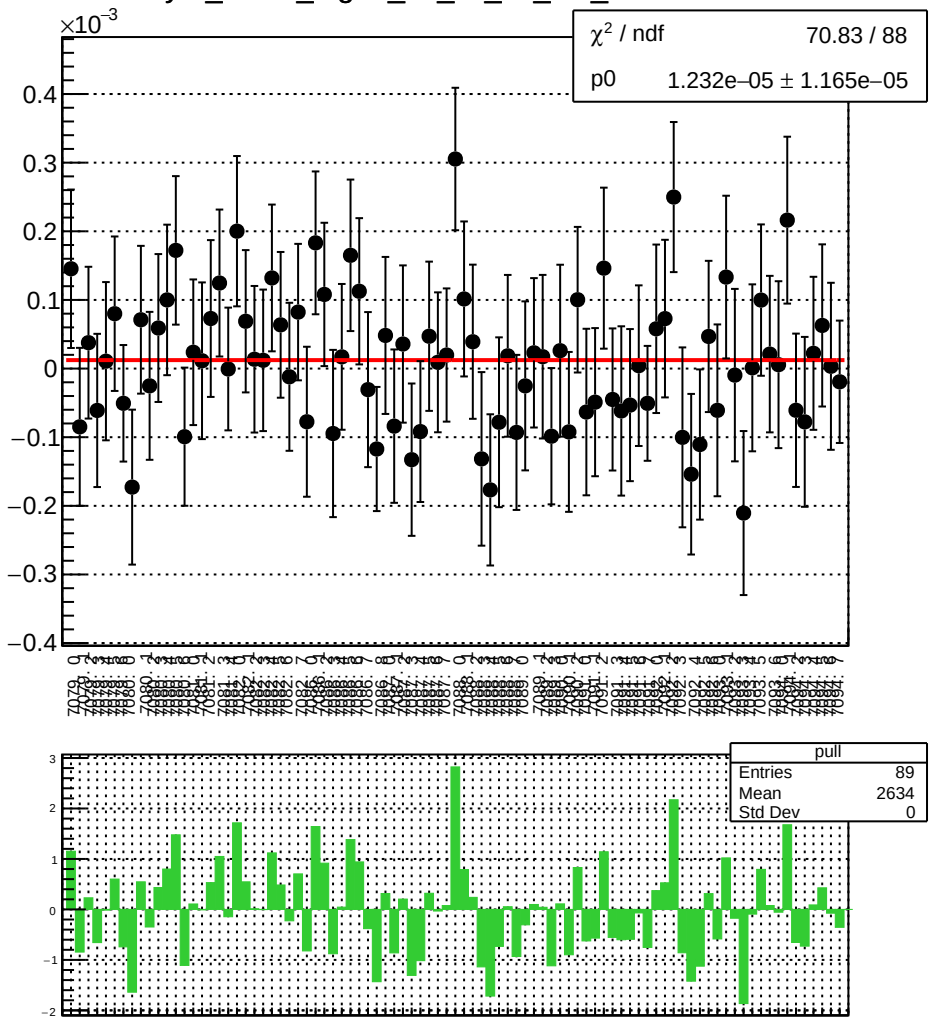

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 88
p0 4.929e−11 ± 6.062e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

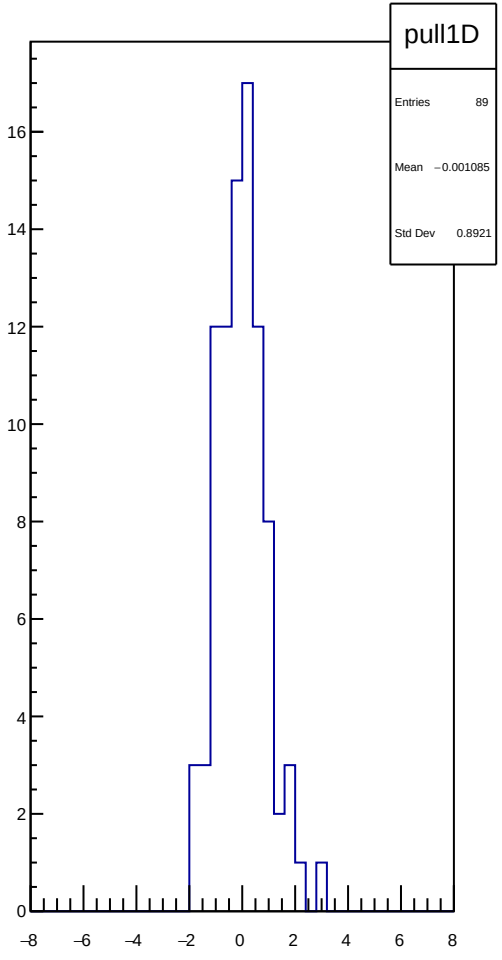

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 80.93 / 88
p0 −0.1174 ± 0.1374
pull
Entries 89
Mean −116.5
Std Dev 0
pull1D
Entries 89
Mean 0.01007
Std Dev 0.9535

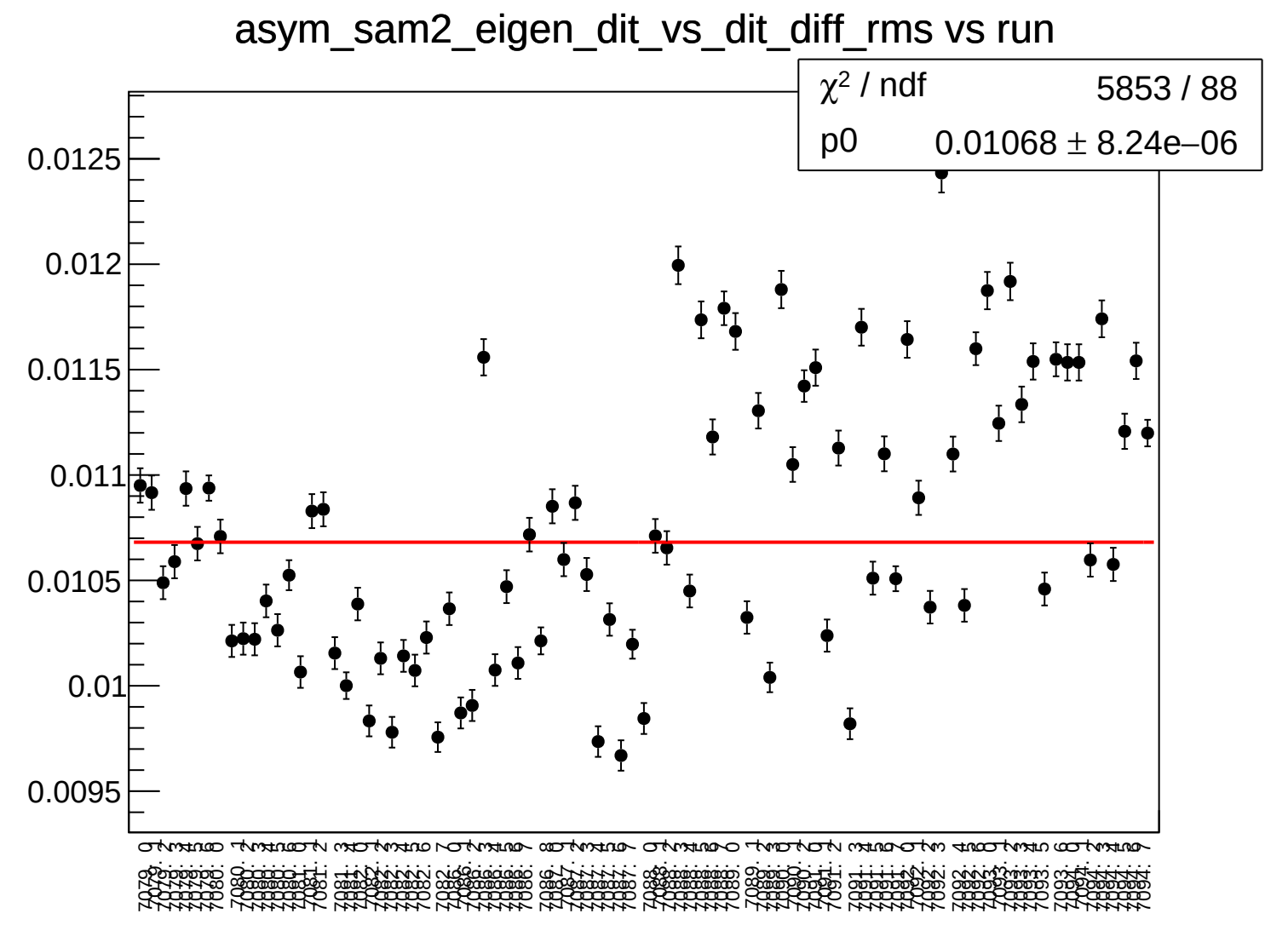

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.119e+04 / 88
p0 125.8 ± 0.09718
150
140
130
120
110
100

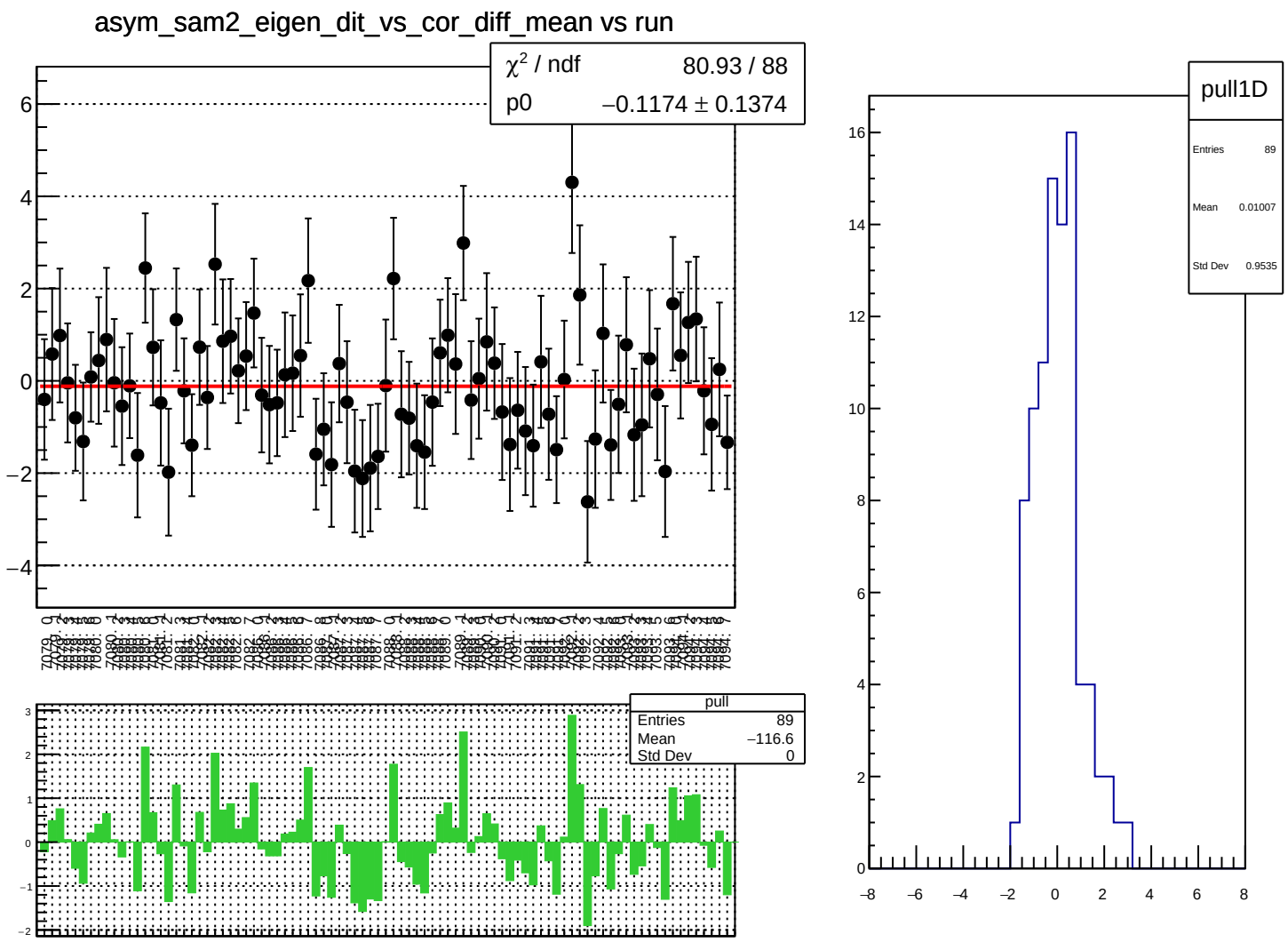

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.93 / 88
p0 −0.1174 ± 0.1374
pull
Entries 89
Mean −116.5
Std Dev 0
pull1D
Entries 89
Mean 0.01007
Std Dev 0.9535

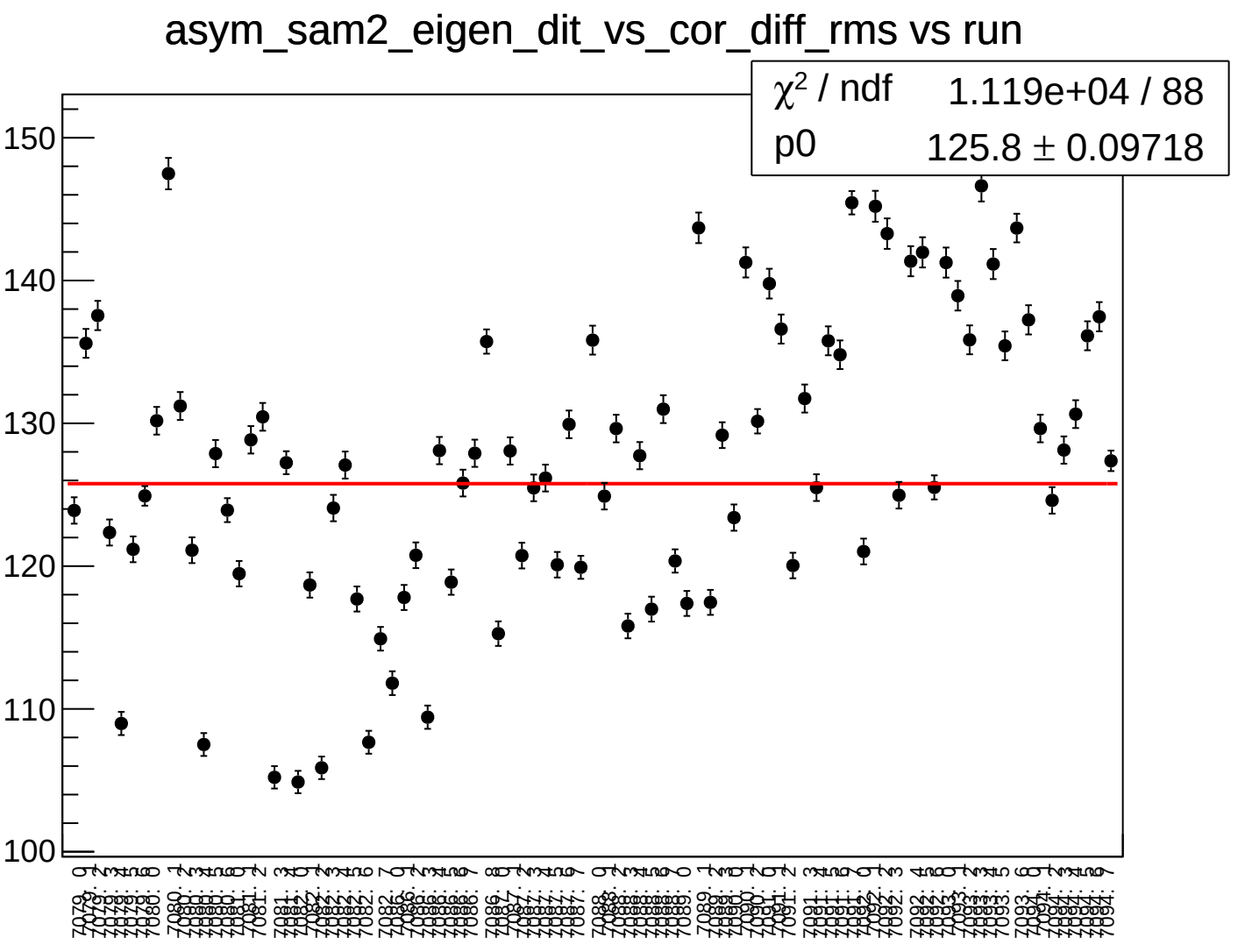

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.119e+04 / 88
p0 125.8 ± 0.09718
150
140
130
120
110
100

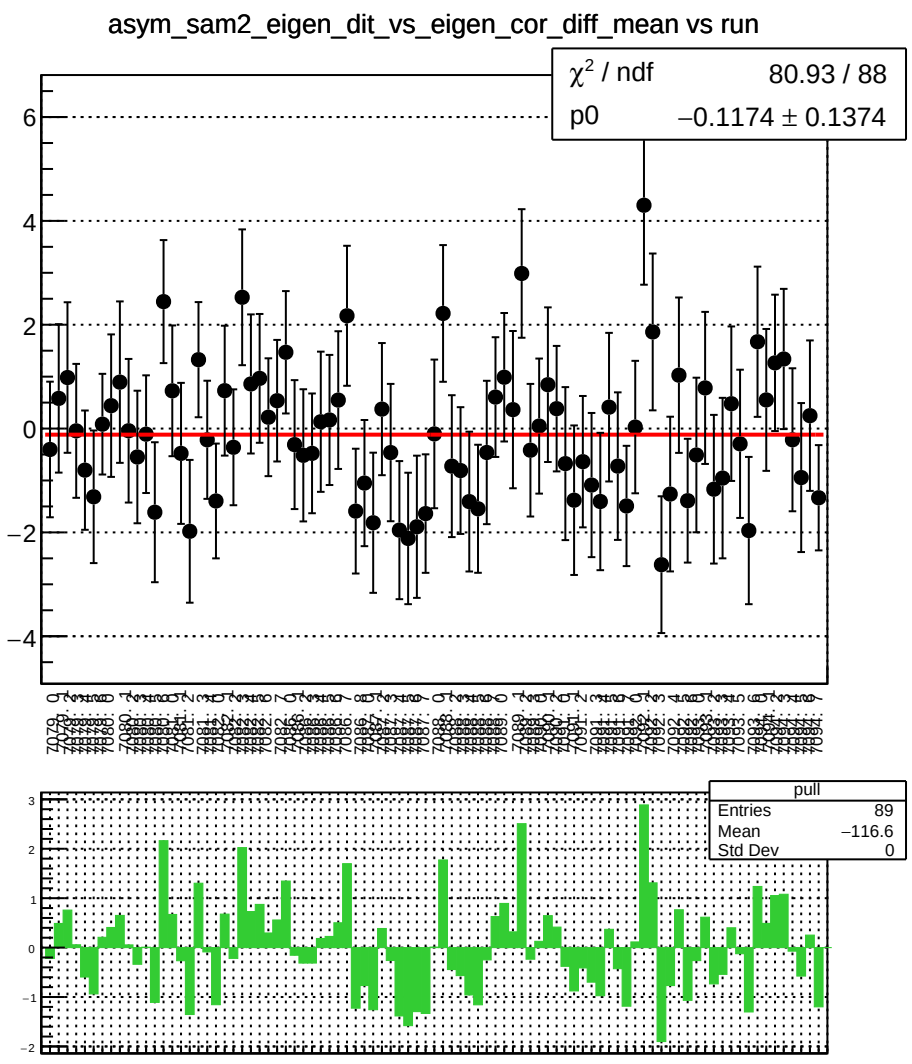

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.83 / 88
p0 1.232e−05 ± 1.165e−05
pull
Entries 89
Mean 2634
Std Dev 0

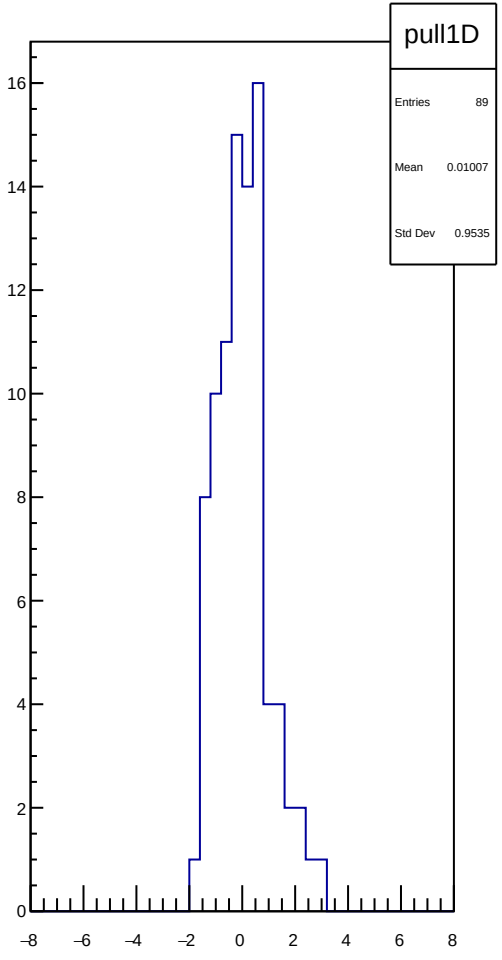

pull1D
Entries 89
Mean −0.001085
Std Dev 0.8921

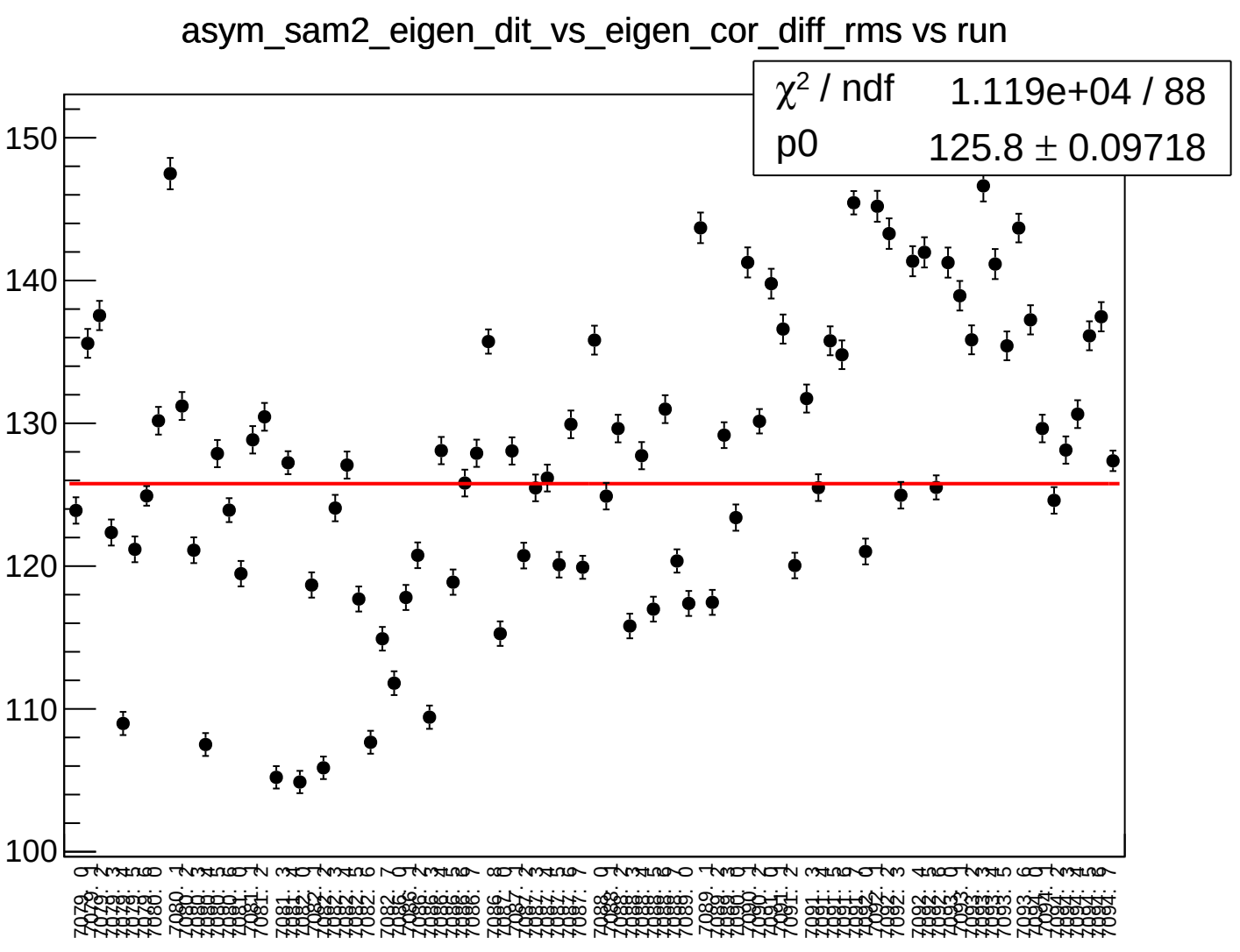

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5853 / 88
p0 0.01068 ± 8.24e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

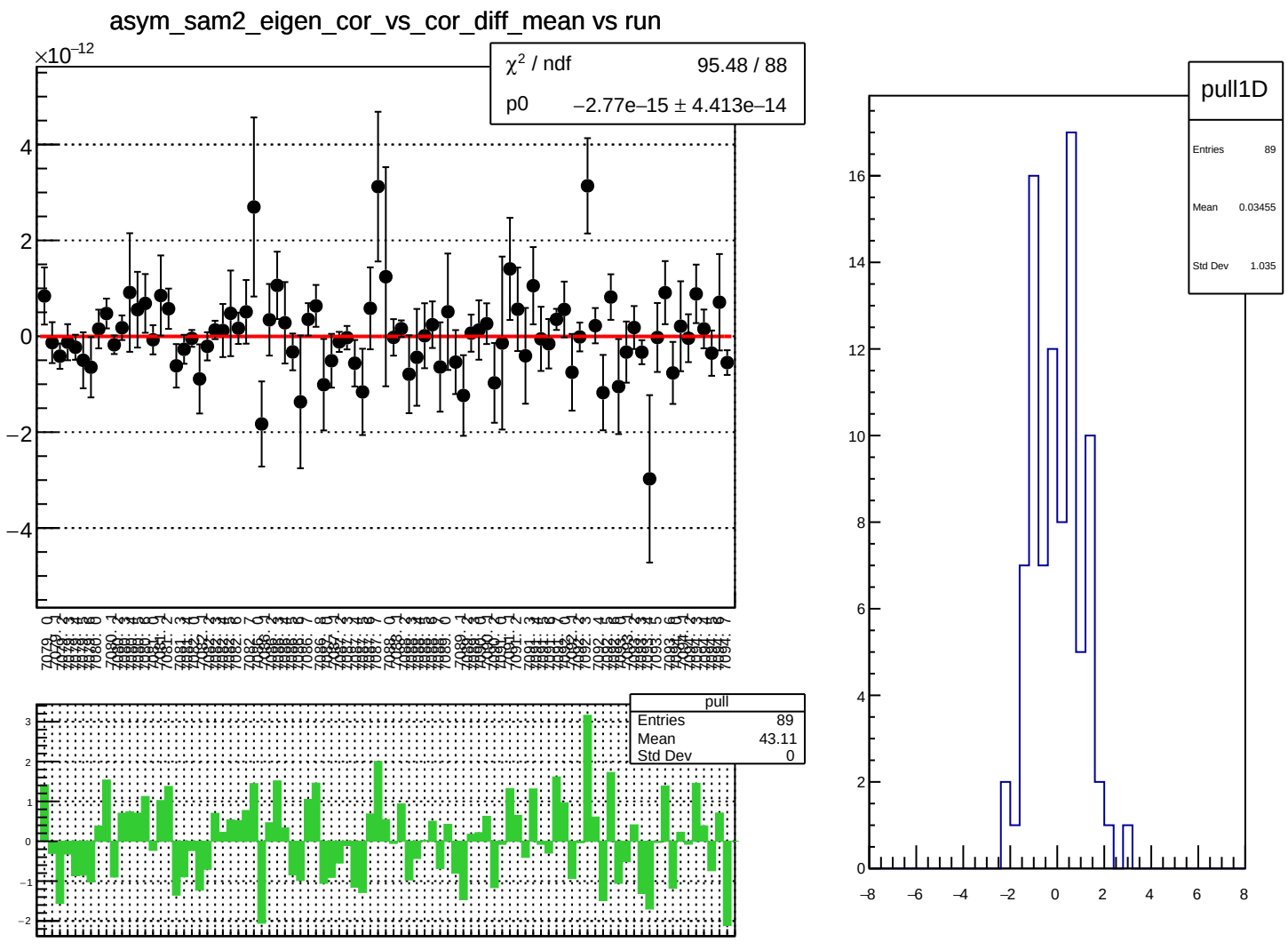

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.93 / 88
p0 −0.1174 ± 0.1374
pull
Entries 89
Mean −116.6
Std Dev 0
pull1D
Entries 89
Mean 0.01007
Std Dev 0.9535

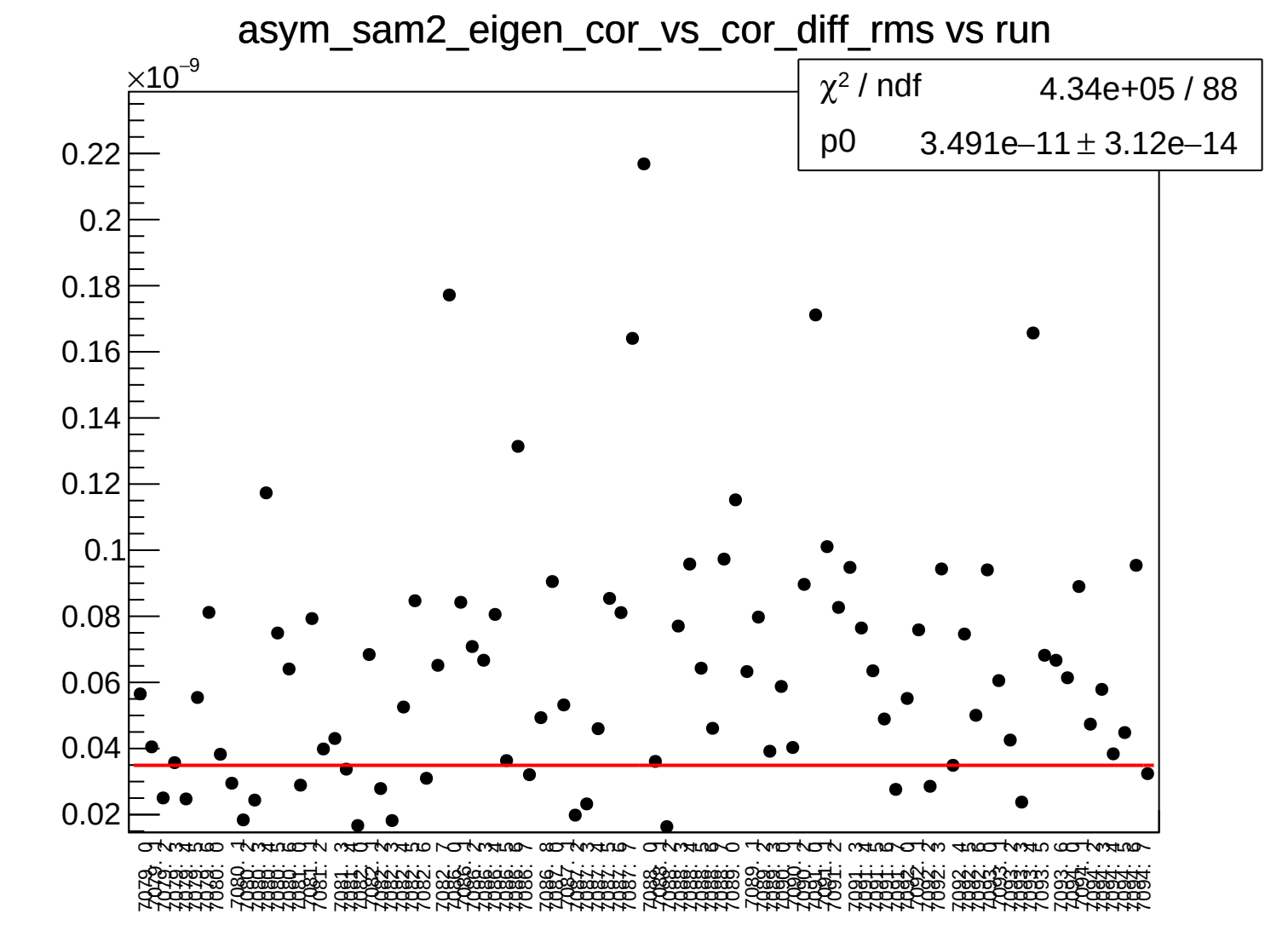

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.119e+04 / 88
p0 125.8 ± 0.09718
150
140
130
120
110
100

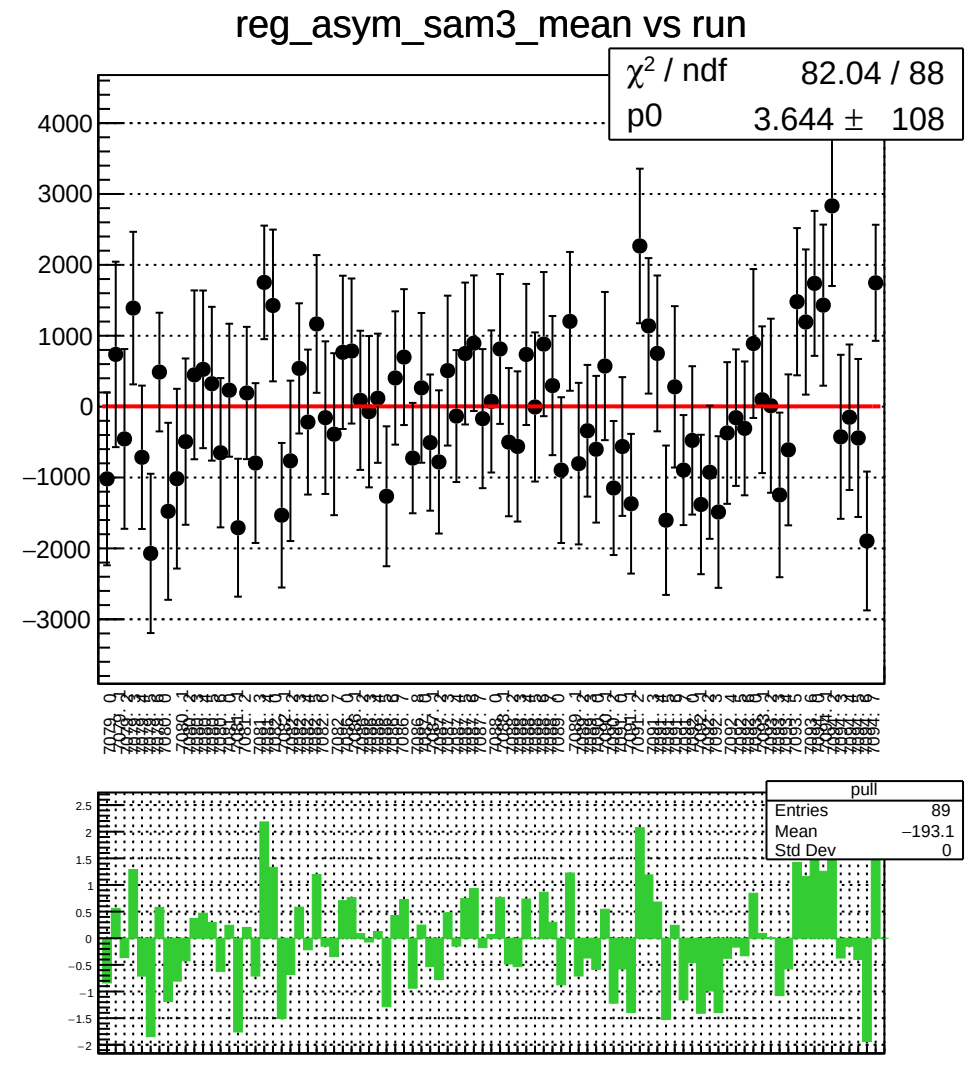

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.93 / 88
p0 −0.1174 ± 0.1374
pull
Entries 89
Mean −116.6
Std Dev 0

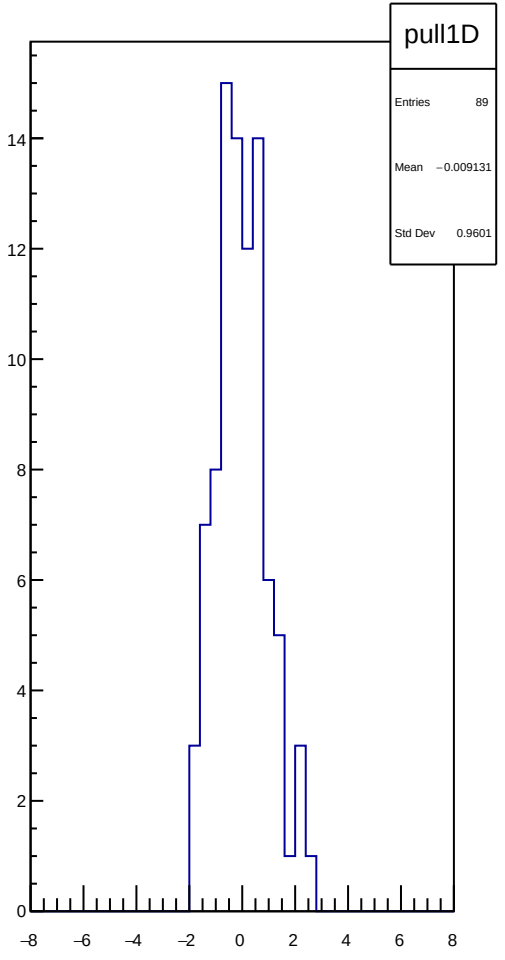

pull1D
Entries 89
Mean 0.01007
Std Dev 0.9535

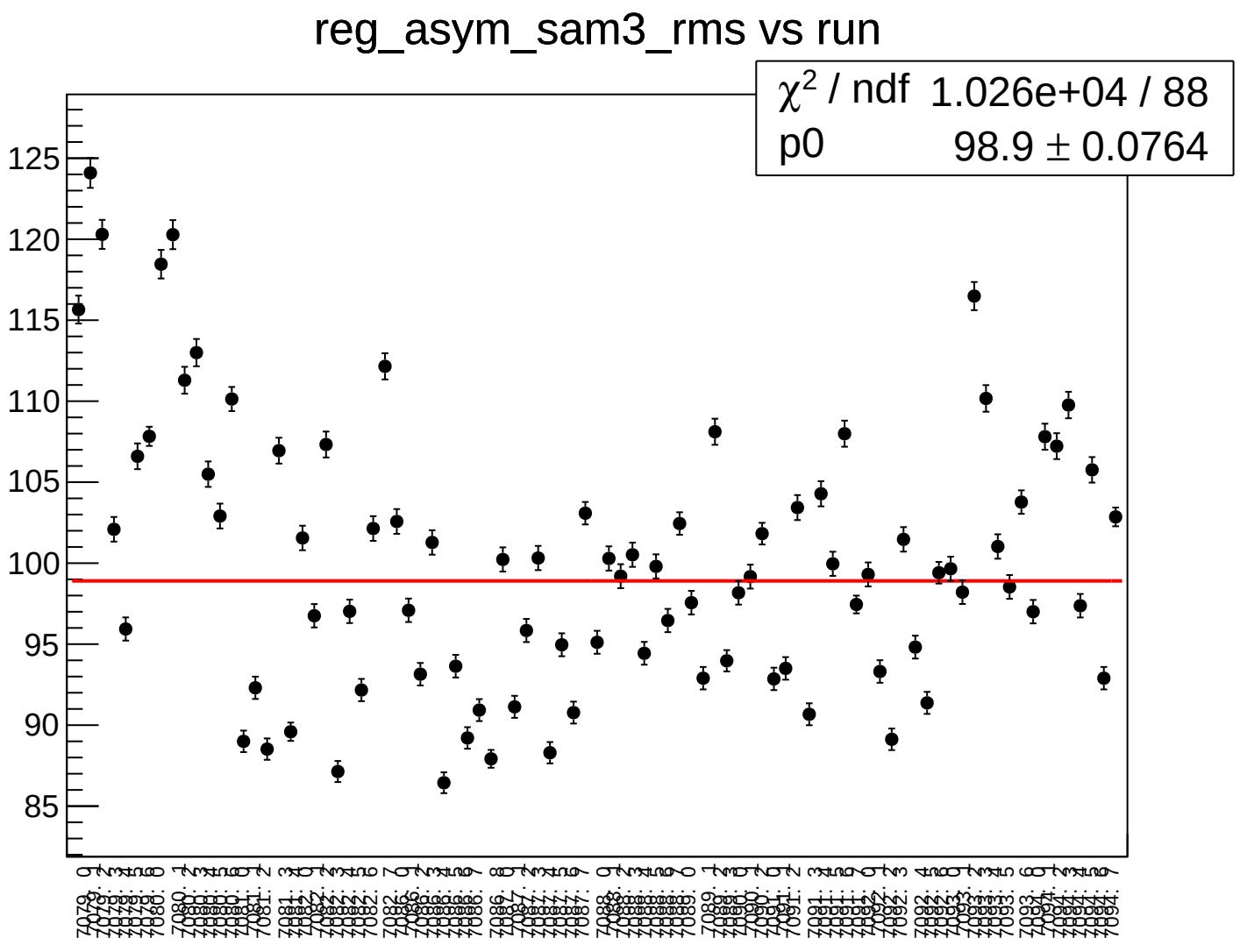

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.119e+04 / 88
p0 125.8 ± 0.09718
150
140
130
120
110
100

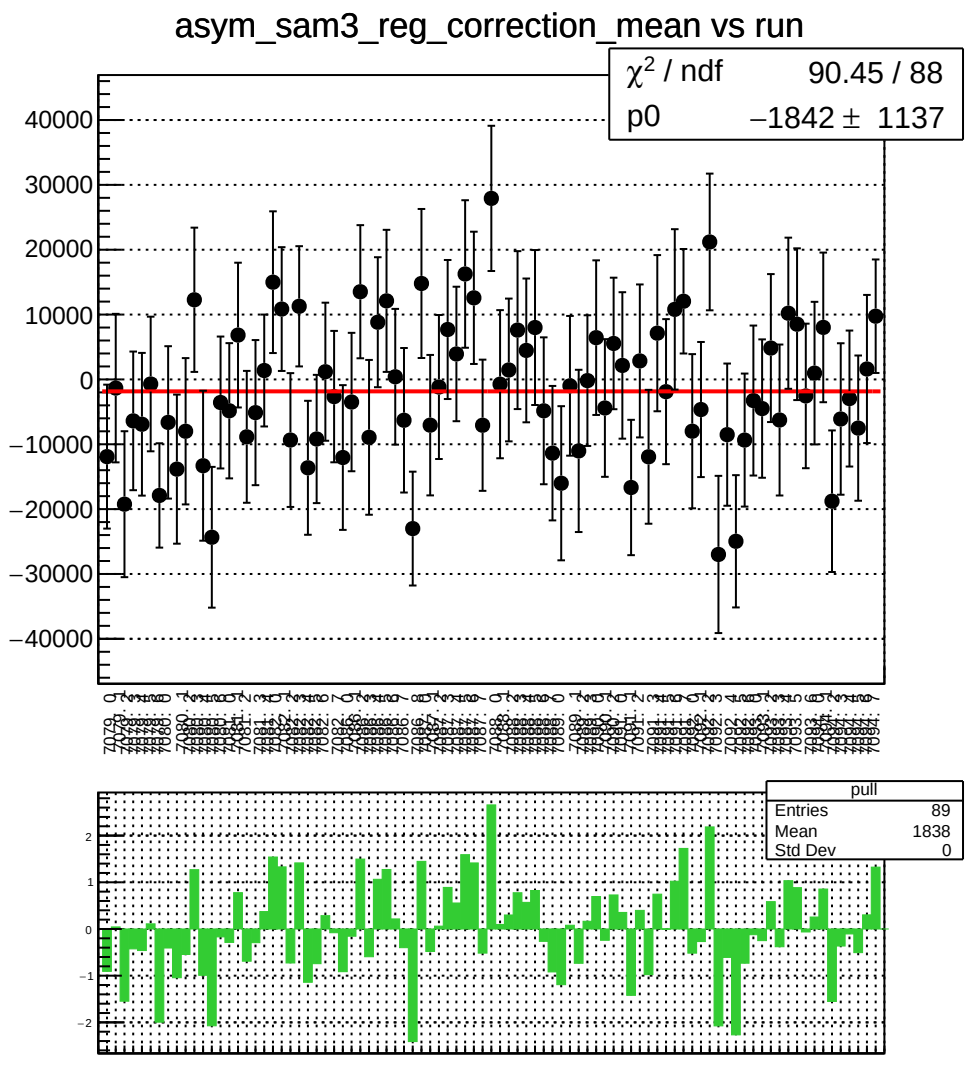

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.48 / 88
p0 −2.77e−15 ± 4.413e−14
pull
Entries 89
Mean 43.11
Std Dev 0
pull1D
Entries 89
Mean 0.03455
Std Dev 1.035

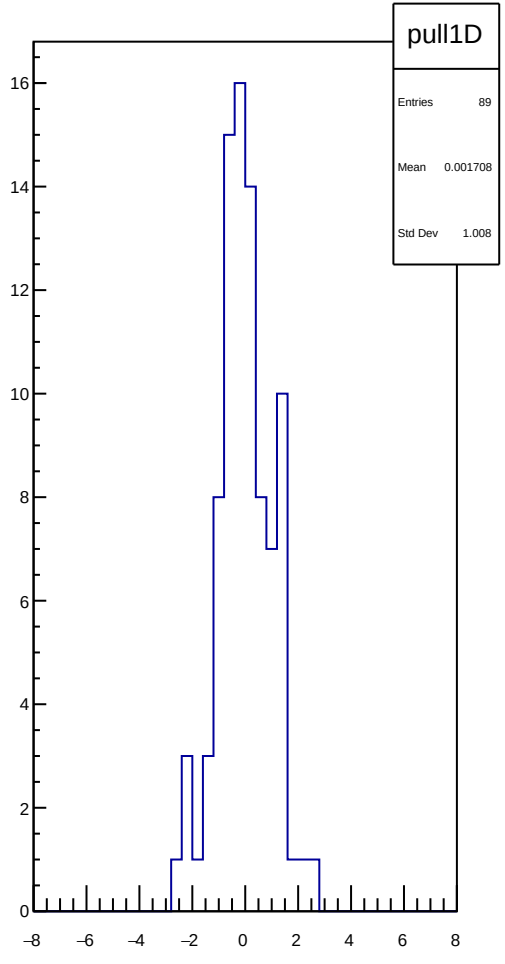

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.34e+05 / 88
p0 3.491e−11 ± 3.12e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

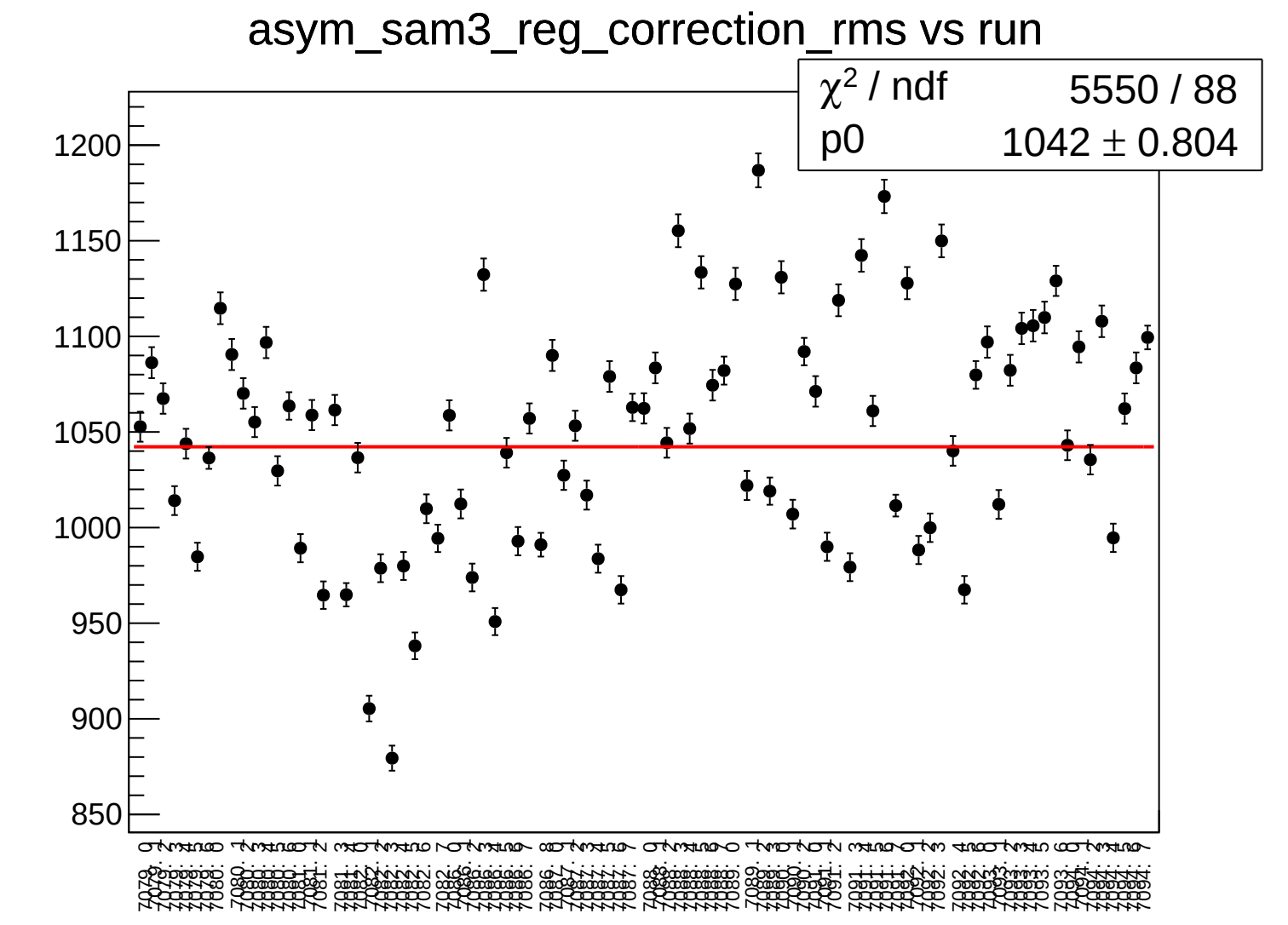

reg_asym_sam3_mean vs run
χ² / ndf 82.04 / 88
p0 3.644 ± 108
pull
Entries 89
Mean −193.1
Std Dev 0

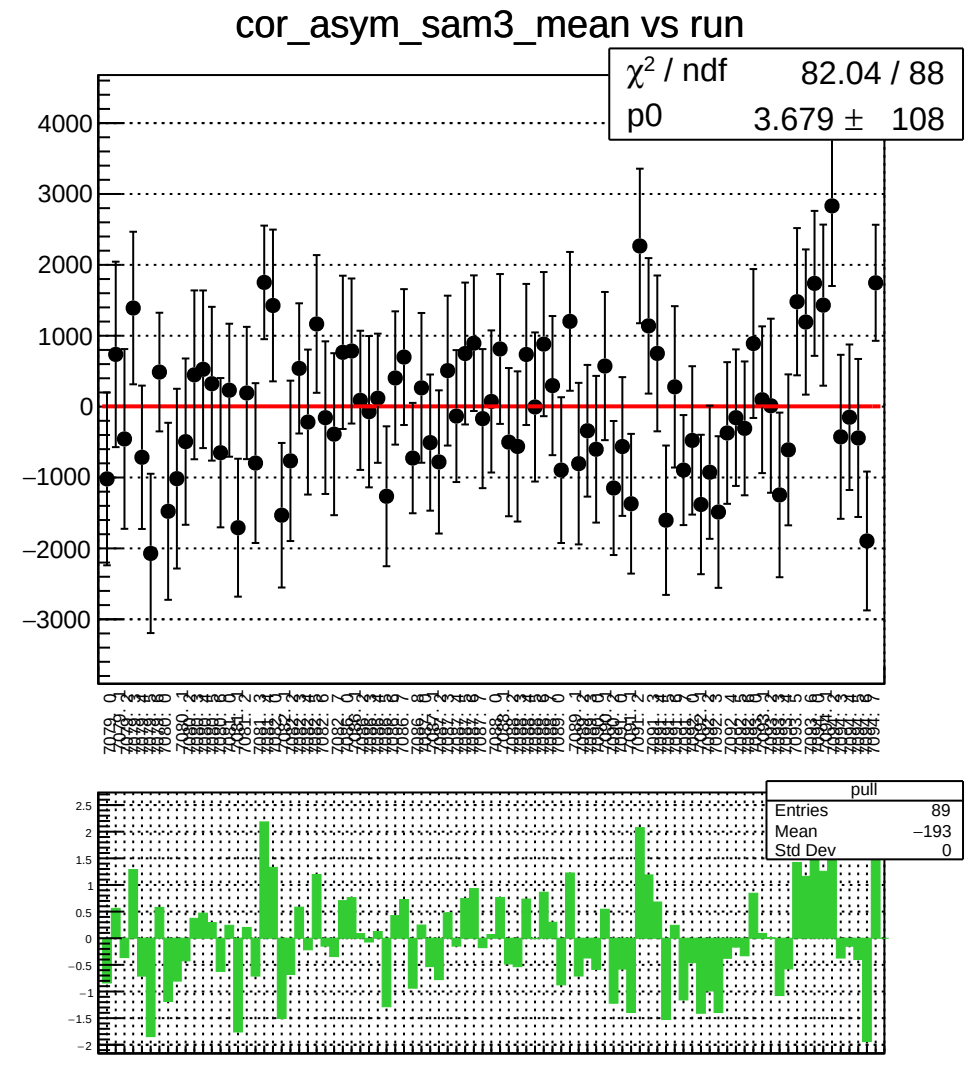

pull1D
Entries 89
Mean −0.009131
Std Dev 0.9601

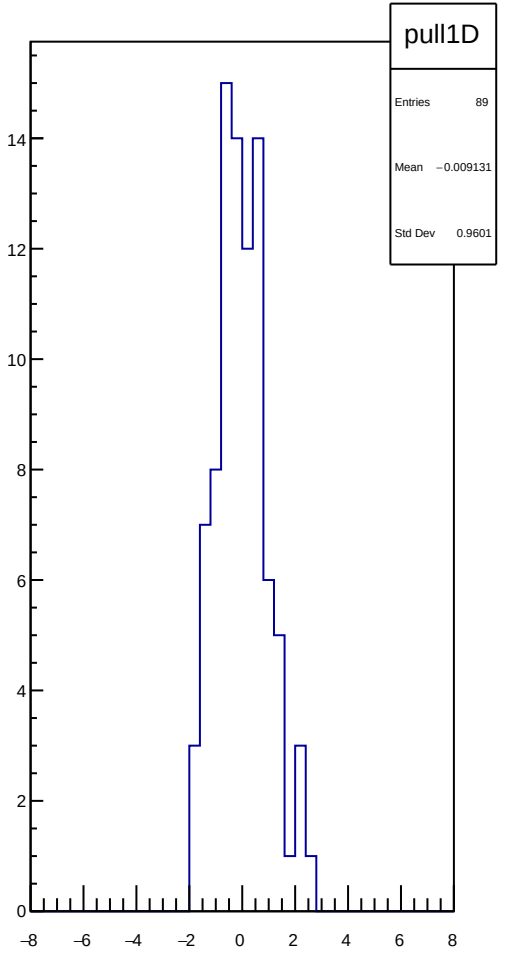

reg_asym_sam3_rms vs run
χ^2 / ndf 1.026e+04 / 88
p0 98.9 ± 0.0764
125
120
115
110
105
100
95
90
85

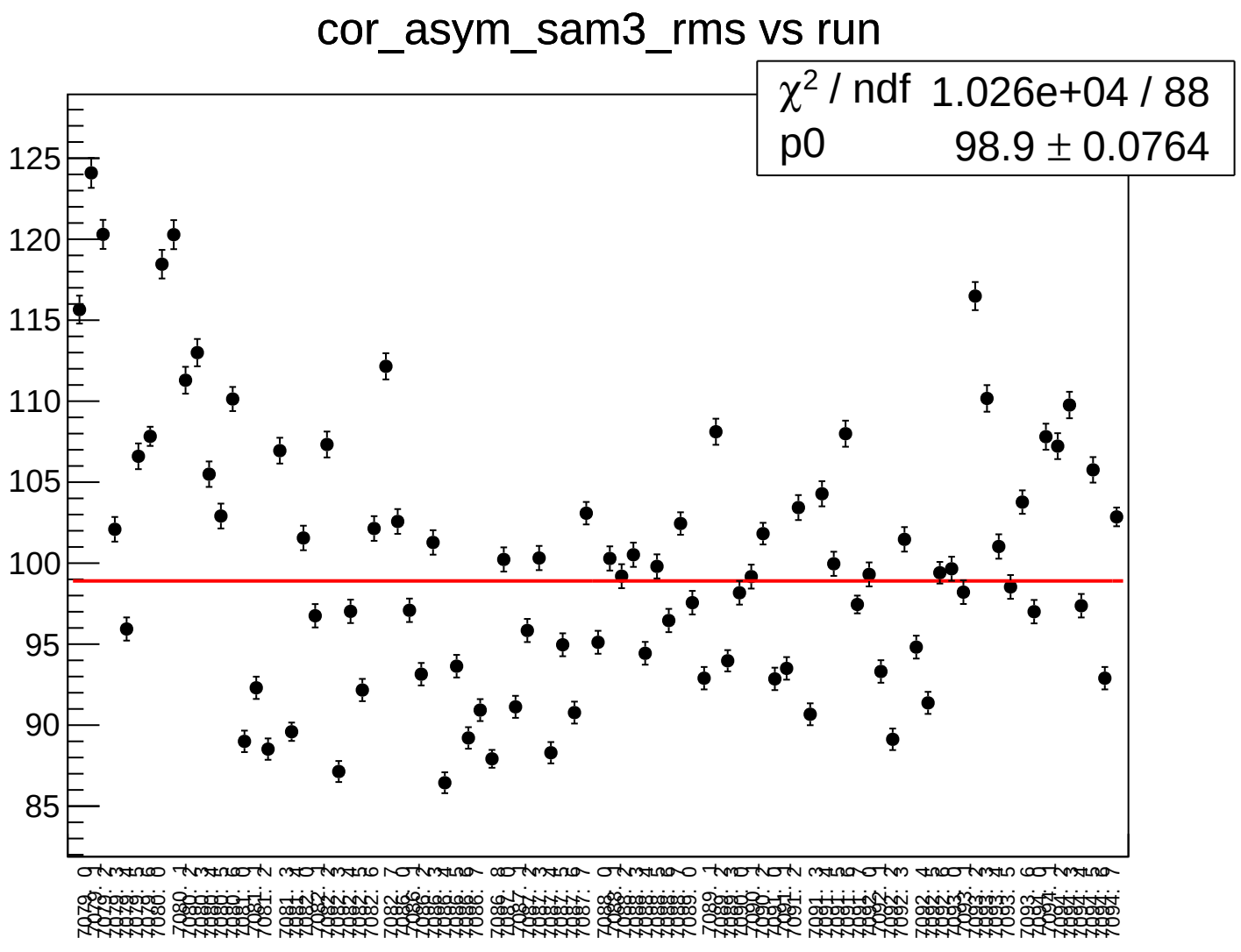

asym_sam3_reg_correction_mean vs run
χ² / ndf 90.45 / 88
p0 −1842 ± 1137
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 1838
Std Dev 0
2
1
0
−1
−2

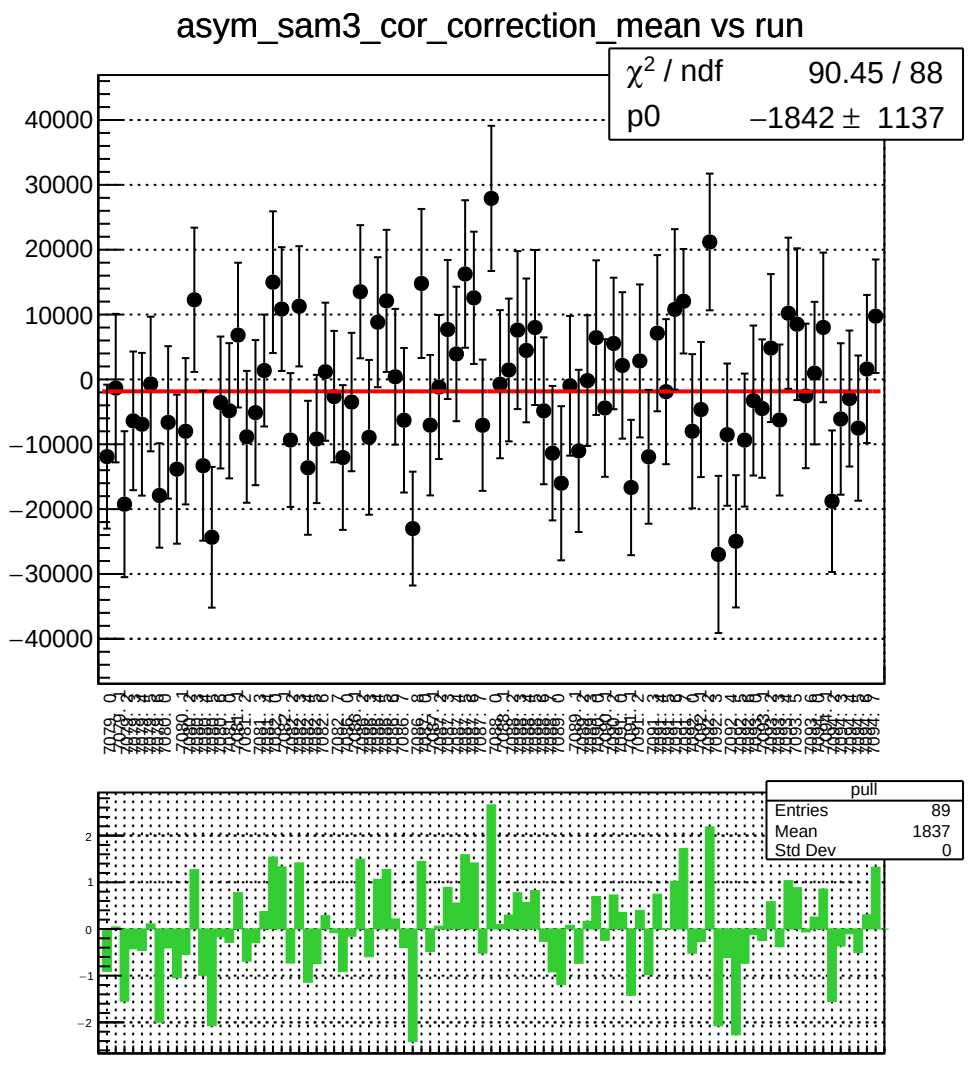

pull1D
Entries 89
Mean 0.001708
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

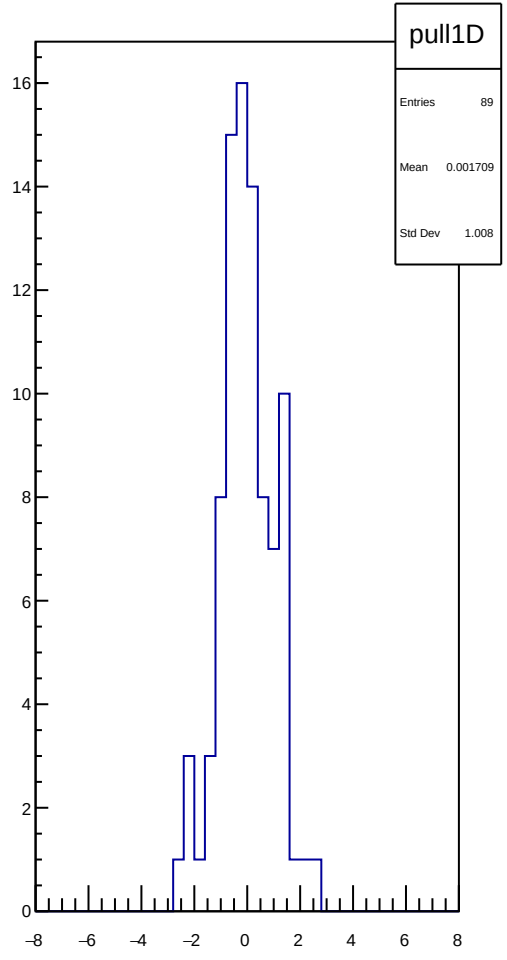

asym_sam3_reg_correction_rms vs run
χ² / ndf 5550 / 88
p0 1042 ± 0.804
1200
1150
1100
1050
1000
950
900
850

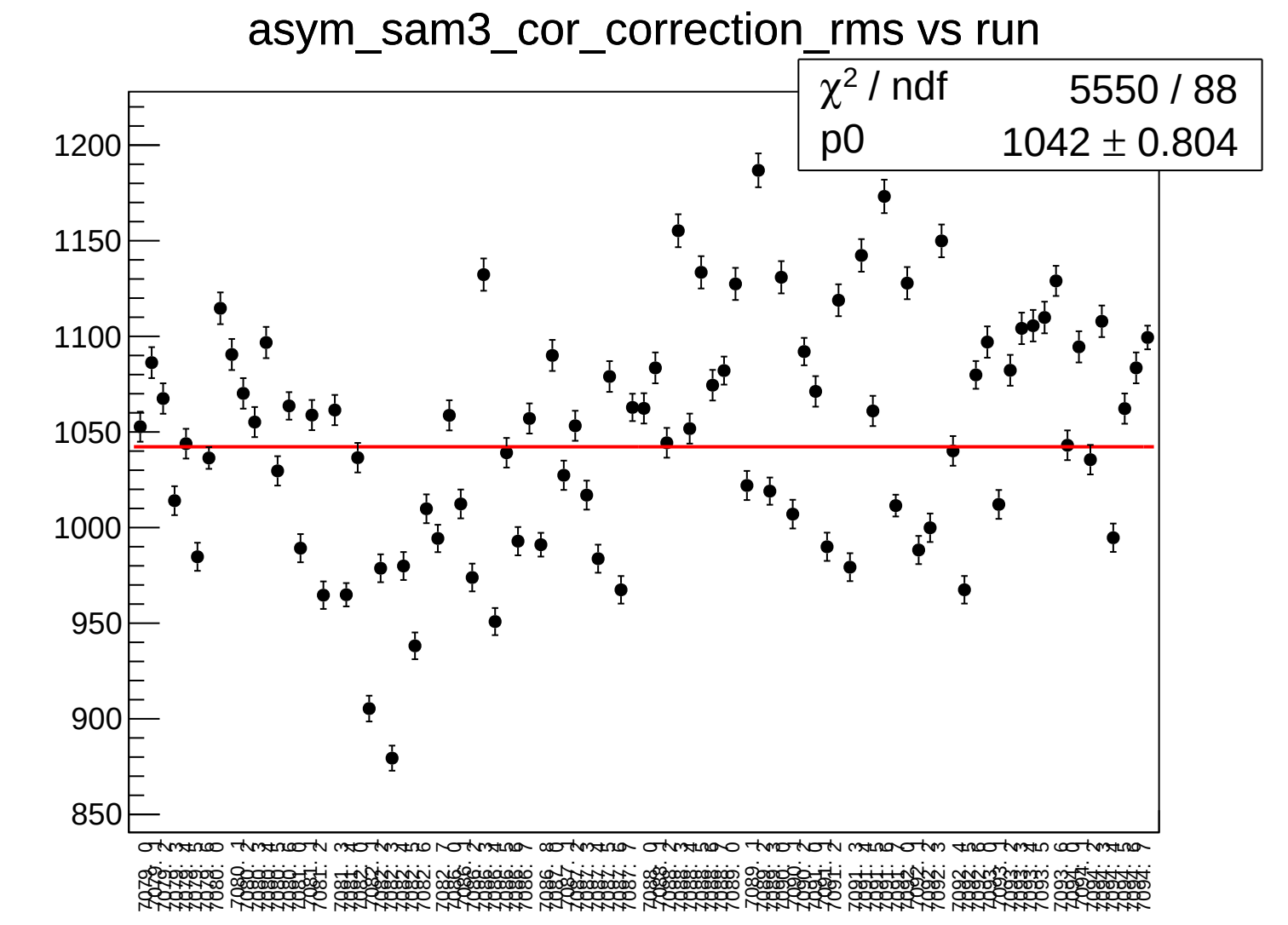

cor_asym_sam3_mean vs run
χ² / ndf 82.04 / 88
p0 3.679 ± 108
pull
Entries 89
Mean −193
Std Dev 0

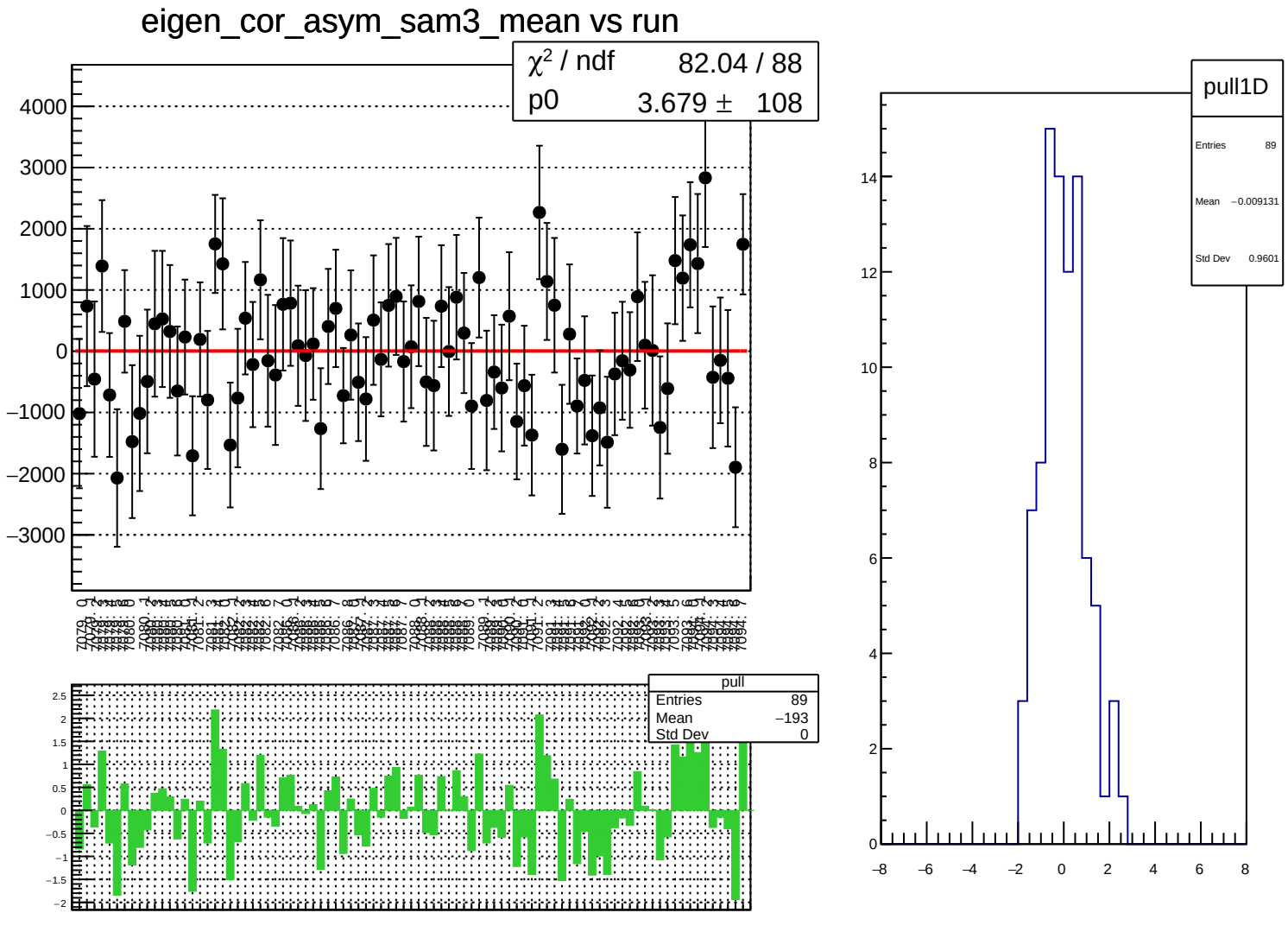

pull1D
Entries 89
Mean −0.009131
Std Dev 0.9601

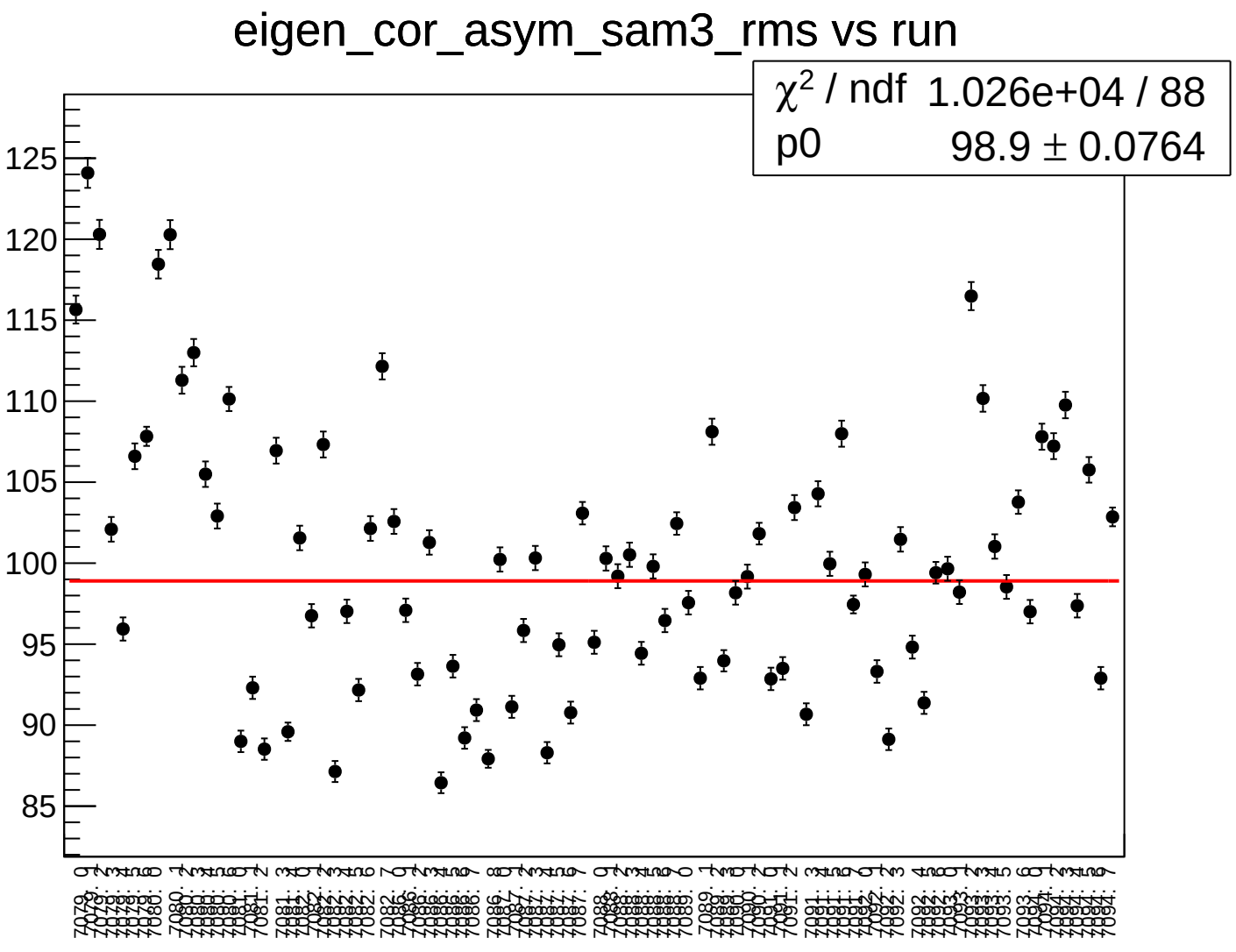

cor_asym_sam3_rms vs run
χ^2 / ndf 1.026e+04 / 88
p0 98.9 ± 0.0764
125
120
115
110
105
100
95
90
85

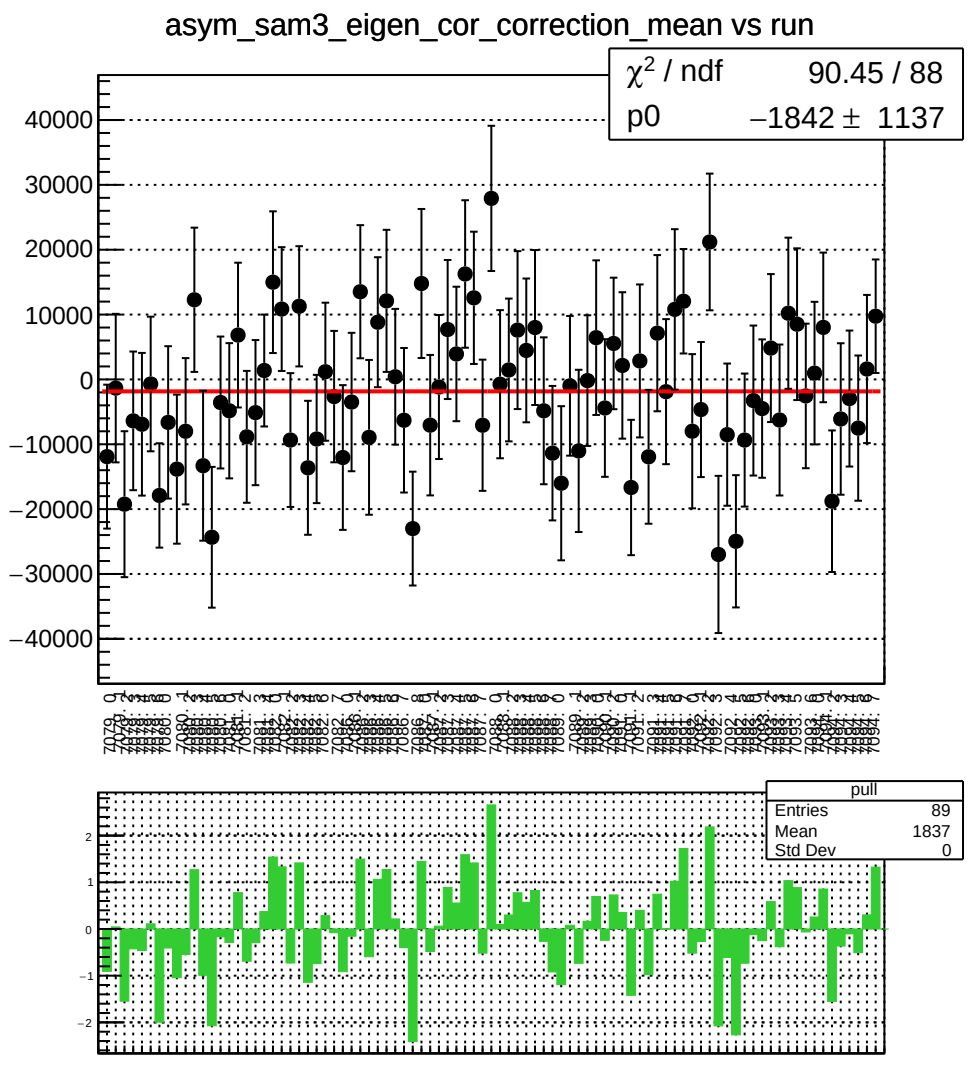

asym_sam3_cor_correction_mean vs run
χ² / ndf 90.45 / 88
p0 −1842 ± 1137
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 1837
Std Dev 0
2
1
0
−1
−2

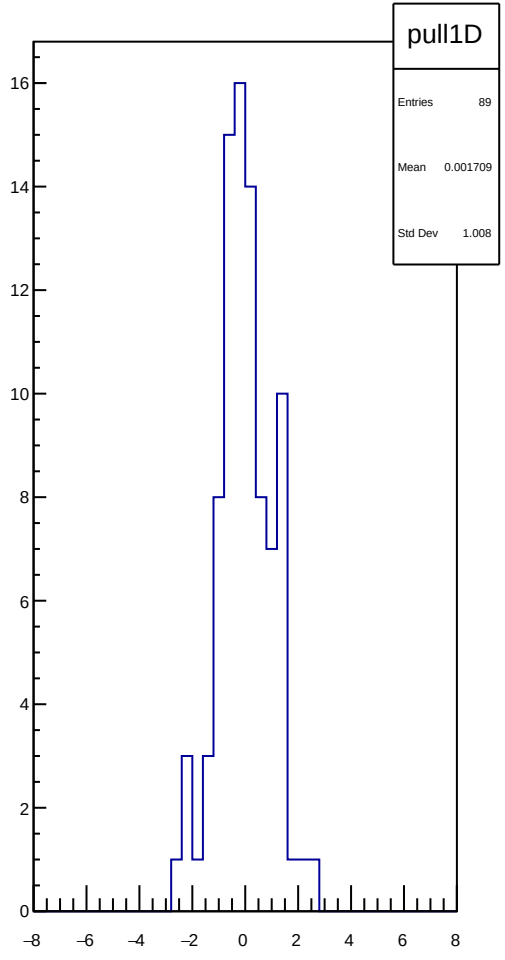

pull1D
Entries 89
Mean 0.001709
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

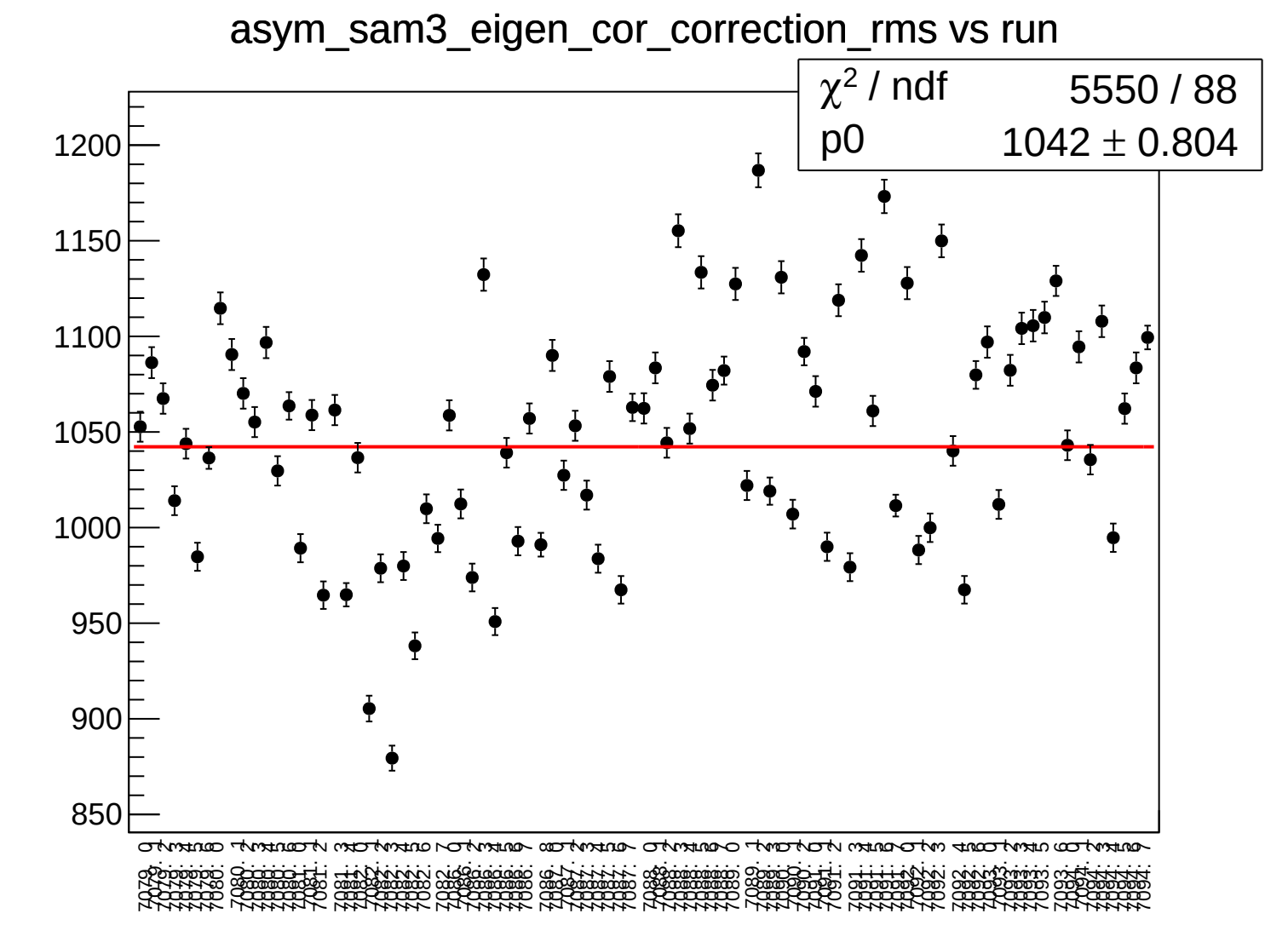

asym_sam3_cor_correction_rms vs run
χ² / ndf 5550 / 88
p0 1042 ± 0.804
1200
1150
1100
1050
1000
950
900
850

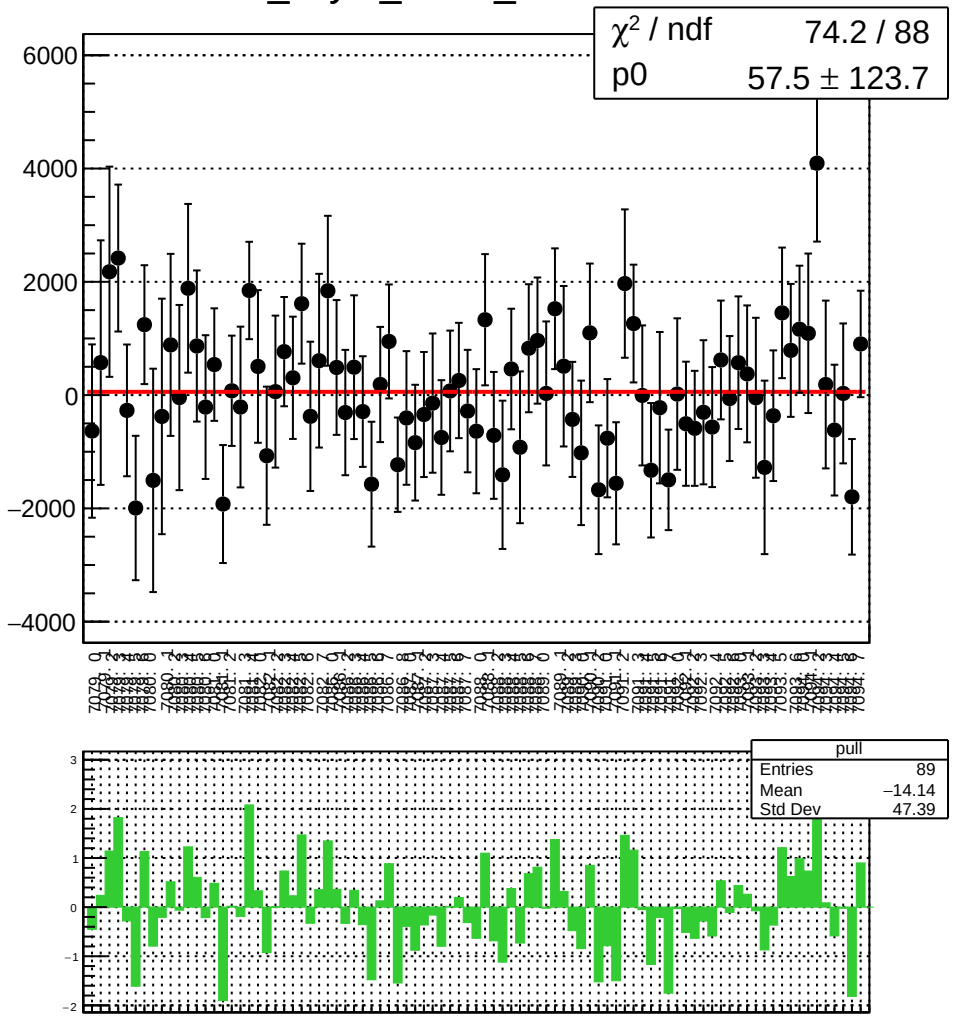

eigen_cor_asym_sam3_mean vs run
χ² / ndf 82.04 / 88
p0 3.679 ± 108
pull
Entries 89
Mean −193
Std Dev 0
pull1D
Entries 89
Mean −0.009131
Std Dev 0.9601

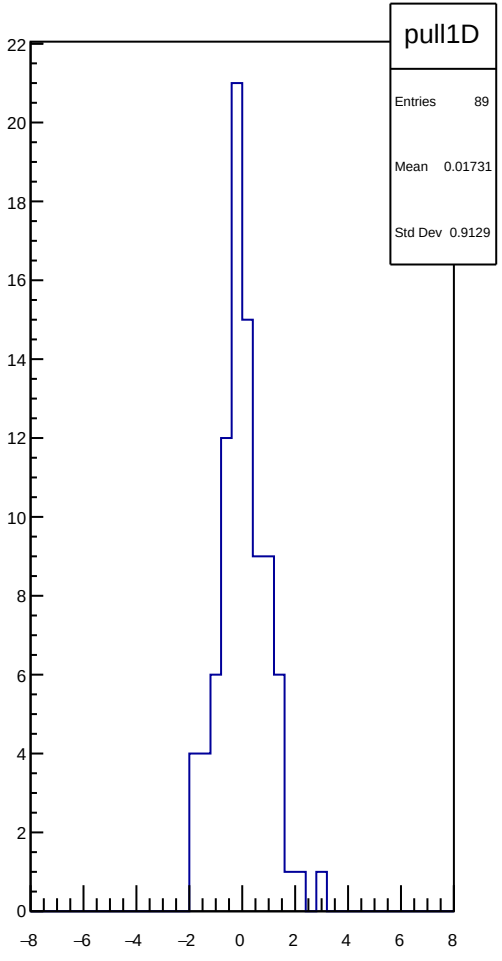

eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 1.026e+04 / 88
p0 98.9 ± 0.0764
125
120
115
110
105
100
95
90
85

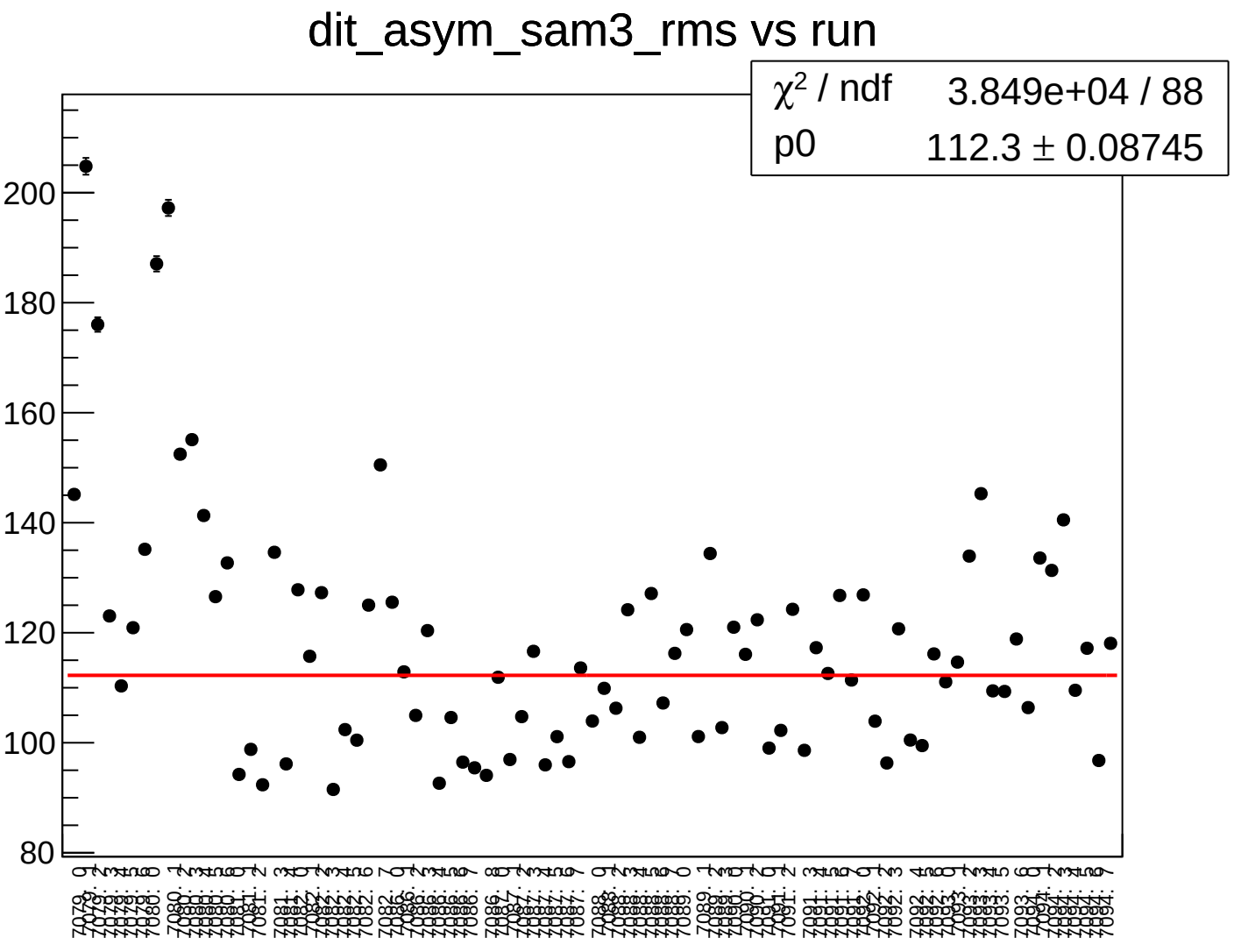

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 90.45 / 88
p0 −1842 ± 1137
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 1837
Std Dev 0
2
1
0
−1
−2

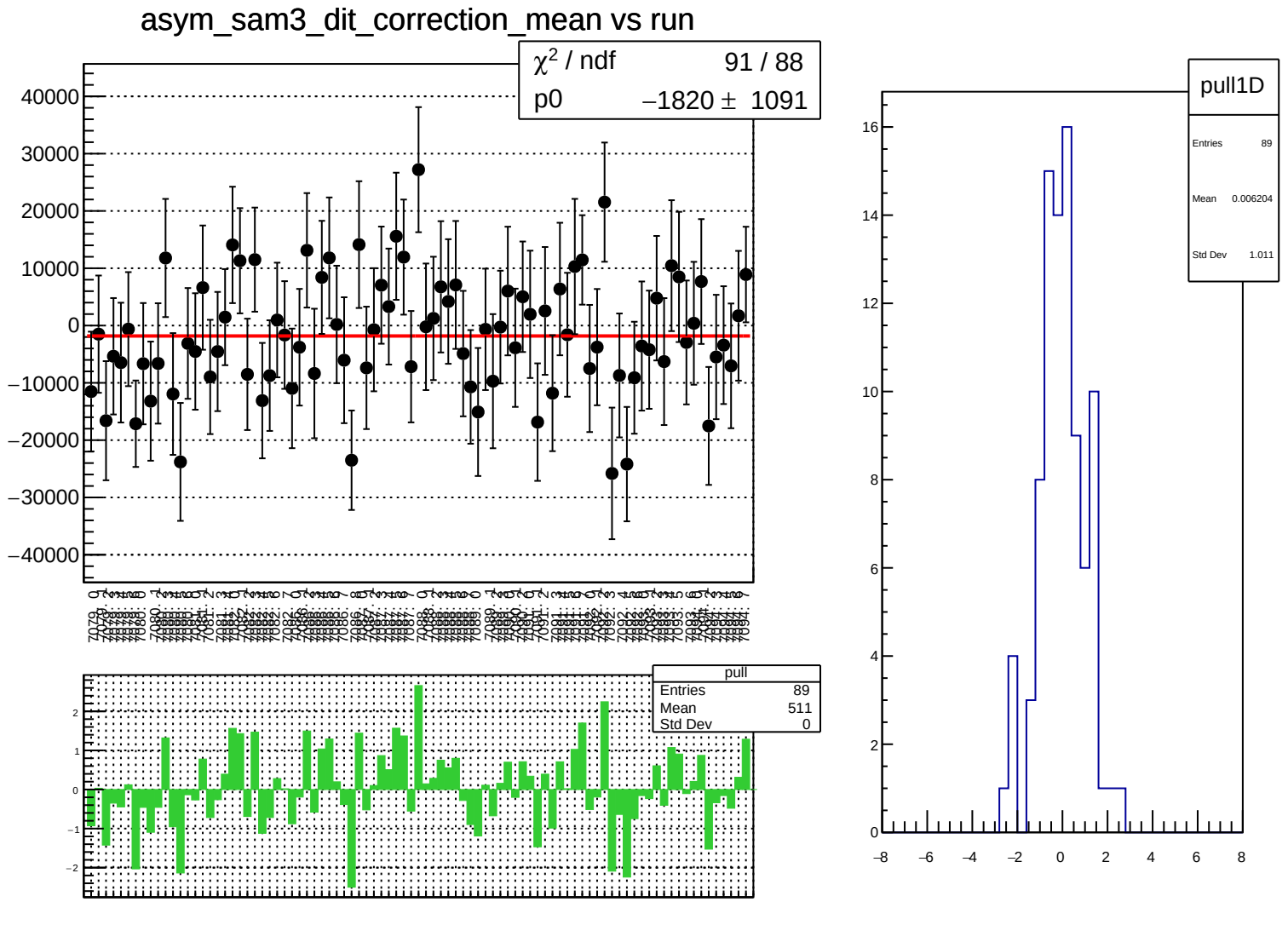

pull1D
Entries 89
Mean 0.001709
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

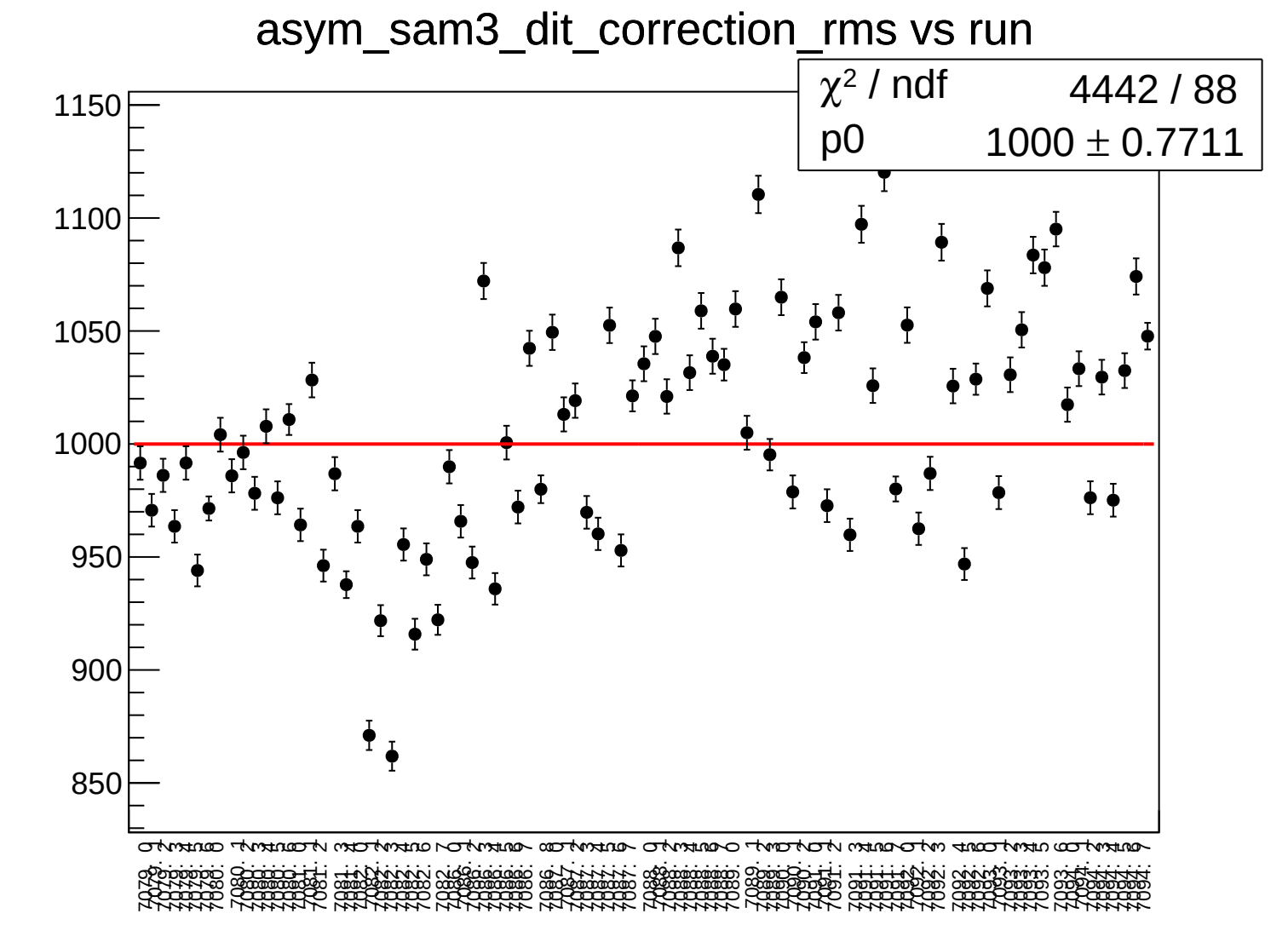

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 5550 / 88
p0 1042 ± 0.804
1200
1150
1100
1050
1000
950
900
850

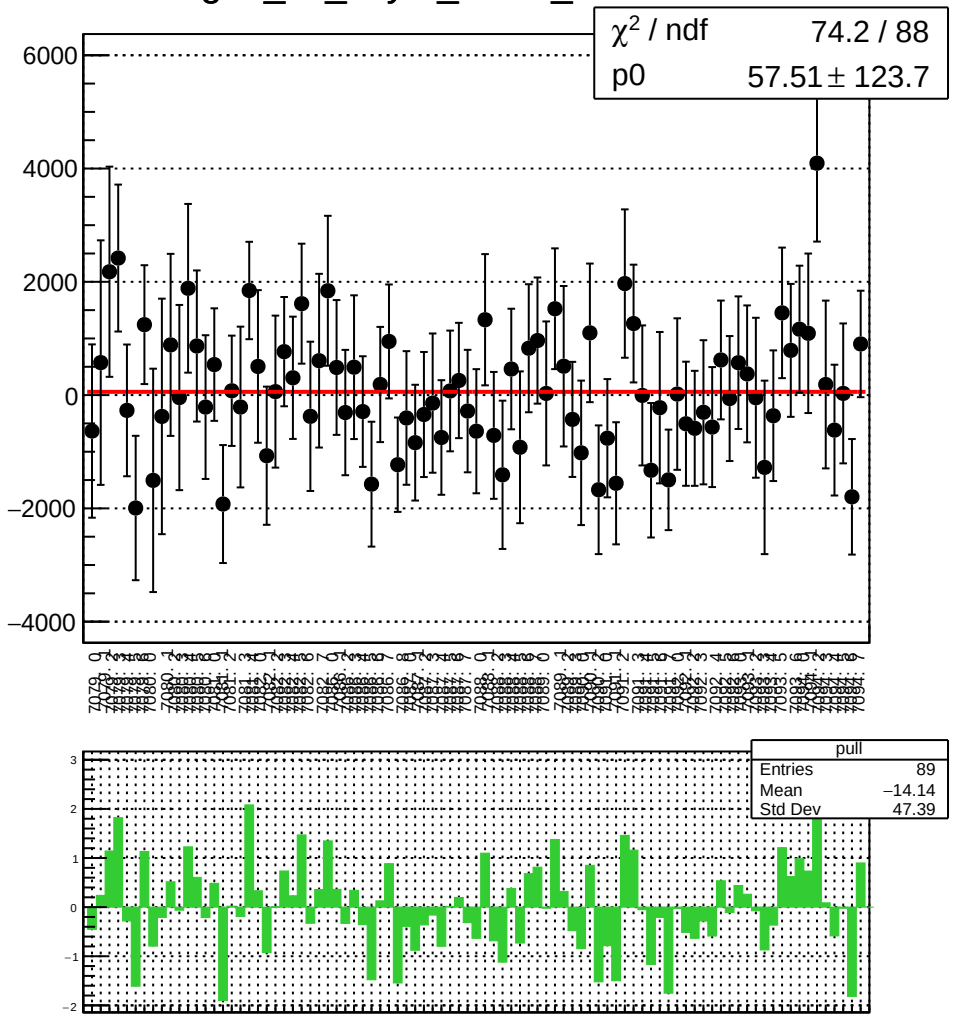

dit_asym_sam3_mean vs run
χ^2 / ndf 74.2 / 88
p0 57.5 ± 123.7
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −14.14
Std Dev 47.39
3
2
1
0
−1
−2

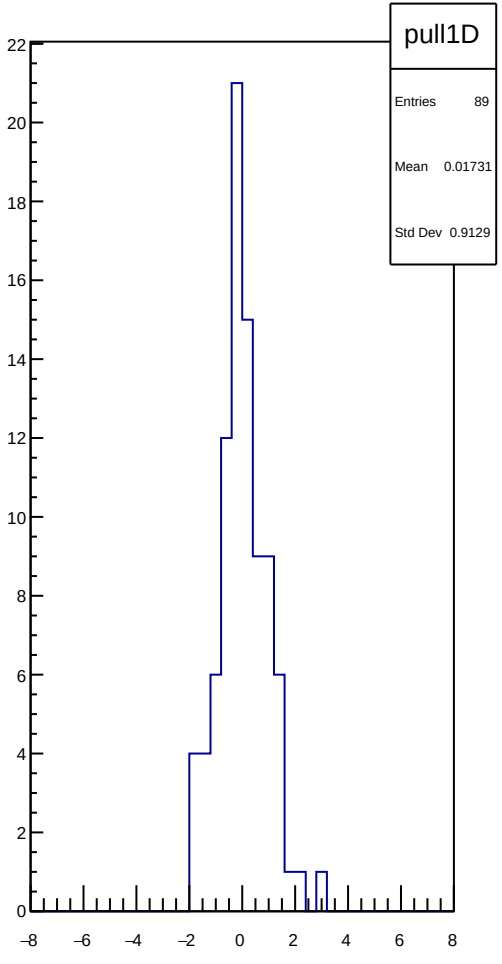

pull1D
Entries 89
Mean 0.01731
Std Dev 0.9129
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

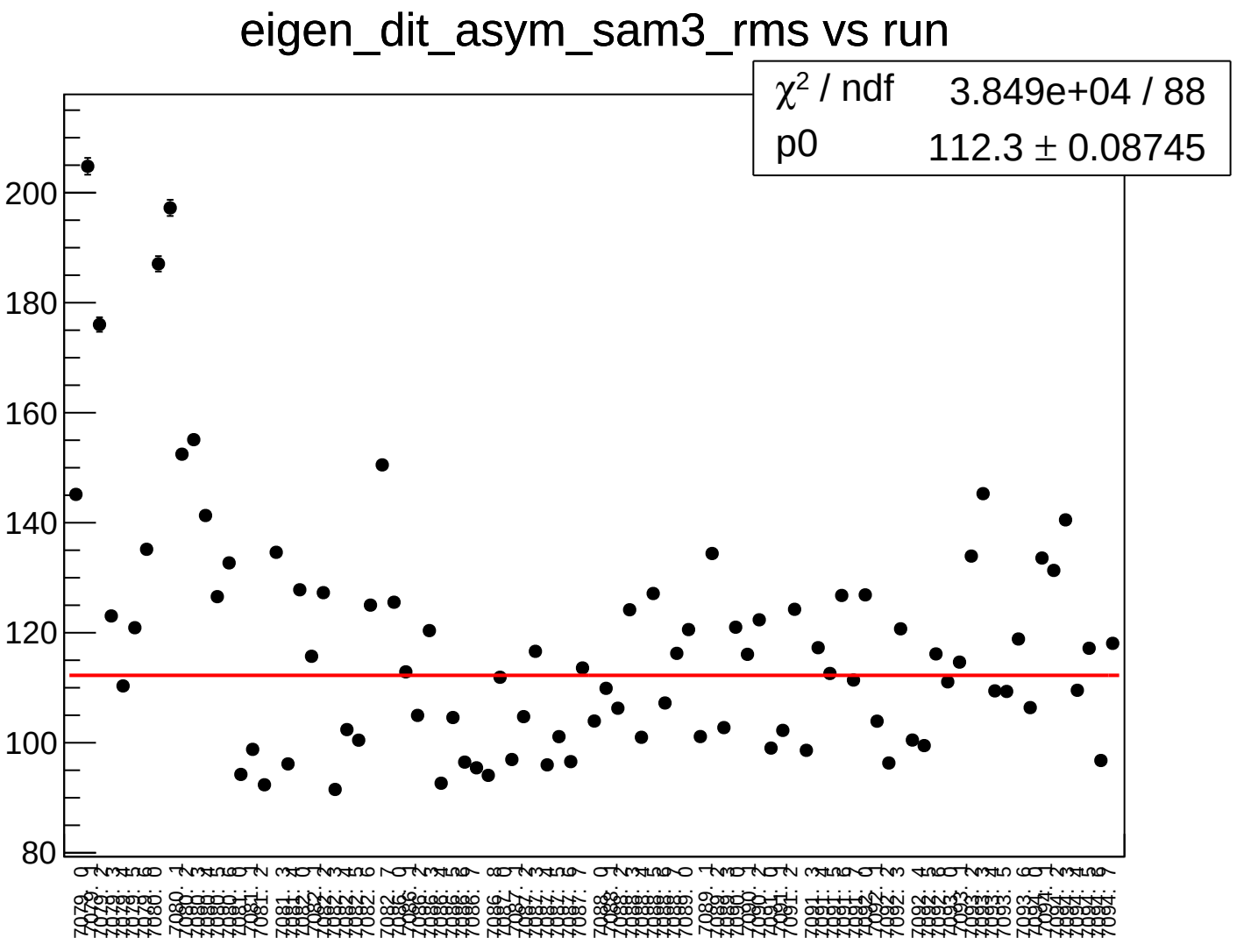

dit_asym_sam3_rms vs run
χ² / ndf 3.849e+04 / 88
p0 112.3 ± 0.08745
200
180
160
140
120
100
80

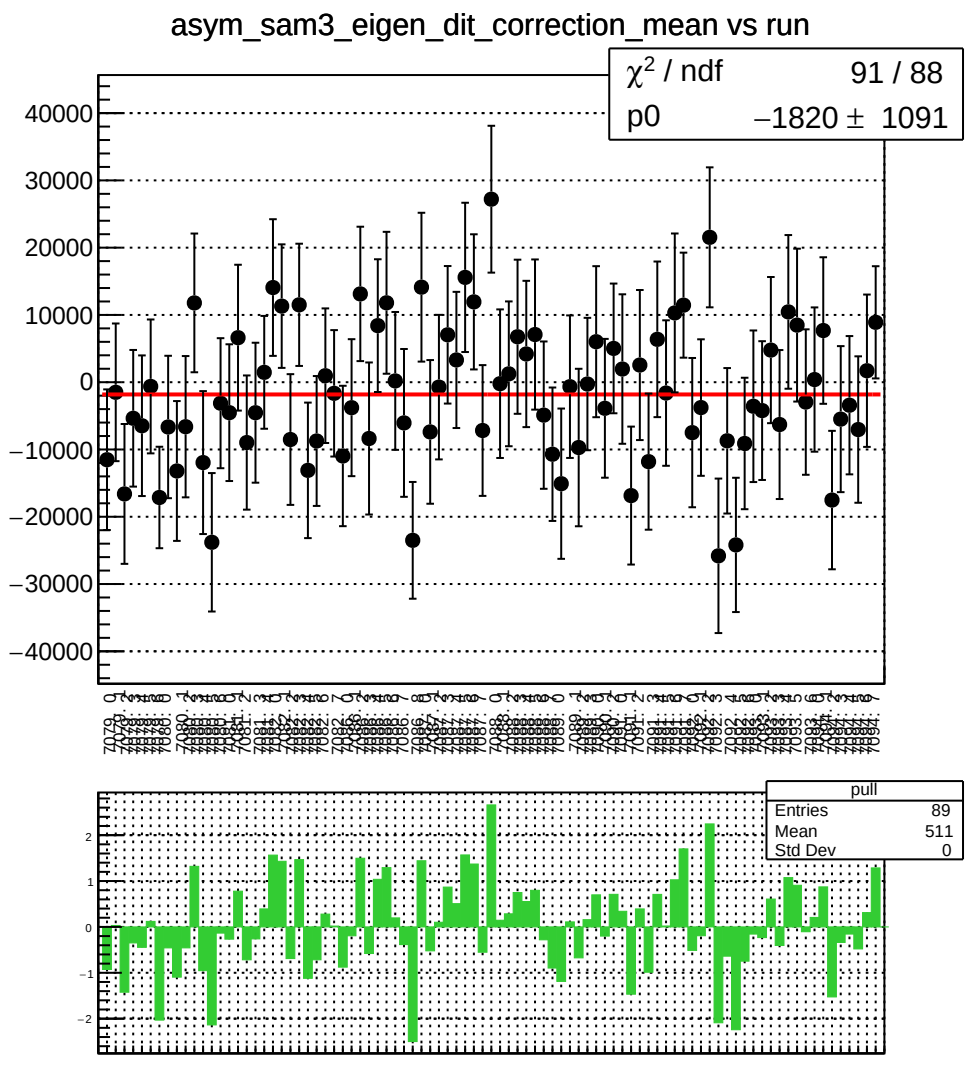

asym_sam3_dit_correction_mean vs run
χ² / ndf 91 / 88
p0 −1820 ± 1091
pull
Entries 89
Mean 511
Std Dev 0
pull1D
Entries 89
Mean 0.006204
Std Dev 1.011

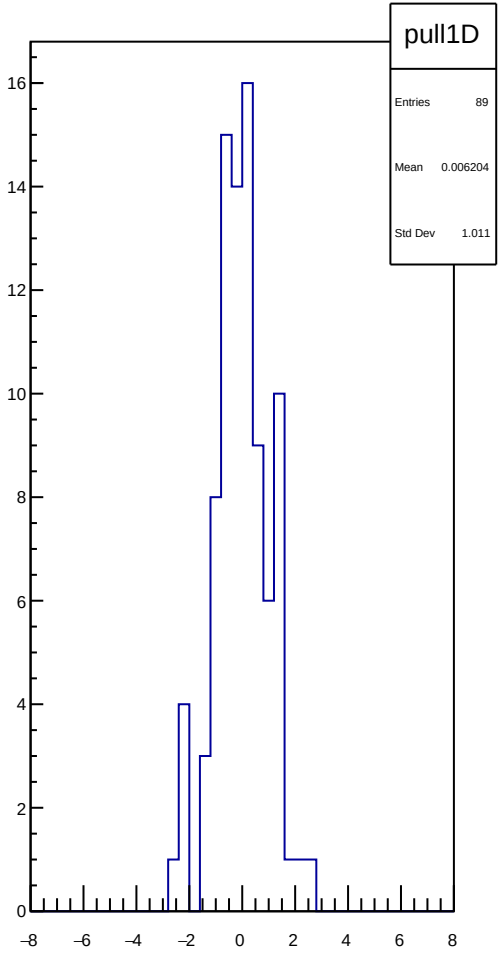

asym_sam3_dit_correction_rms vs run
χ² / ndf 4442 / 88
p0 1000 ± 0.7711
1150
1100
1050
1000
950
900
850

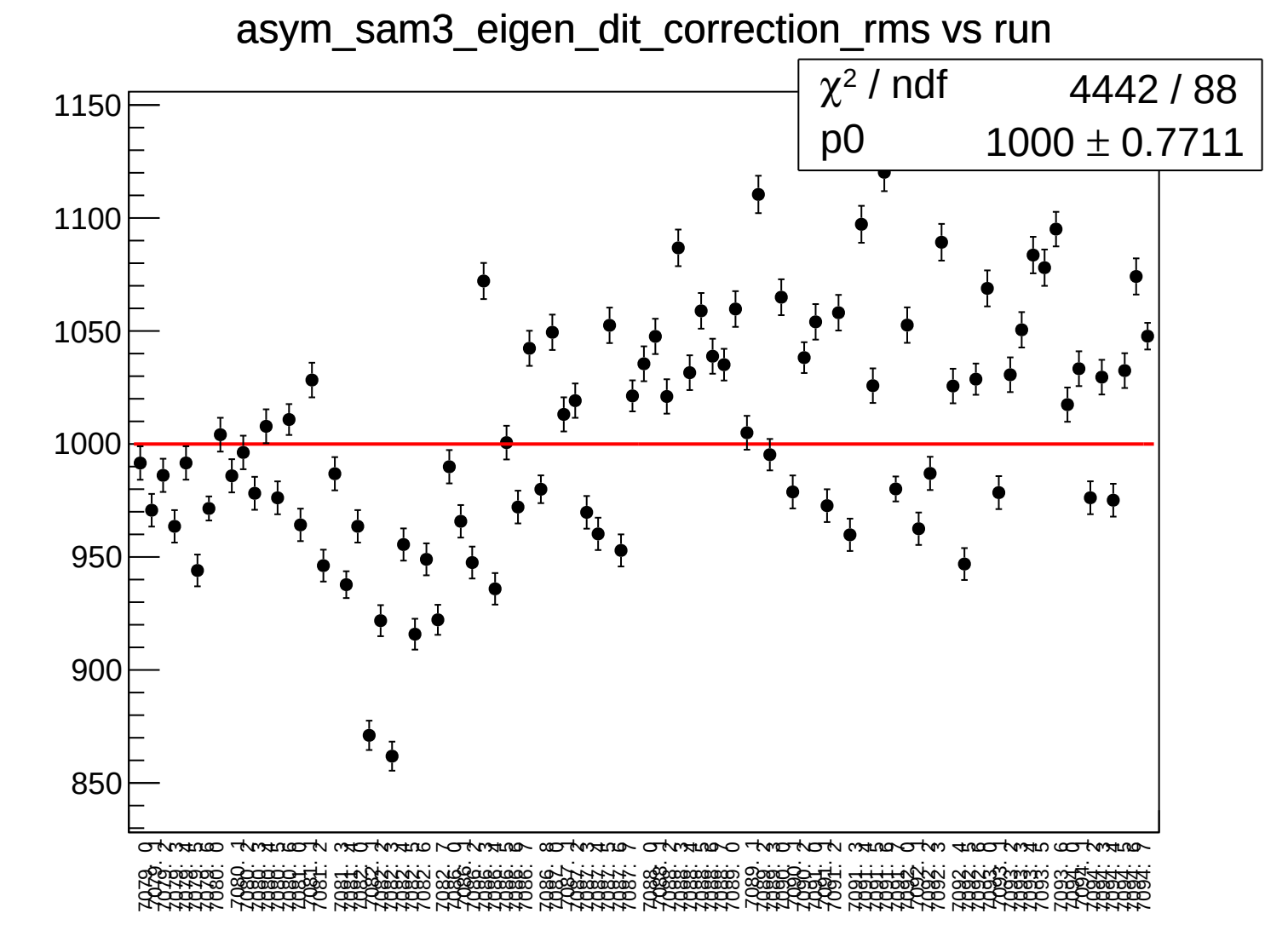

eigen_dit_asym_sam3_mean vs run
χ² / ndf 74.2 / 88
p0 57.51 ± 123.7
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −14.14
Std Dev 47.39
3
2
1
0
−1
−2

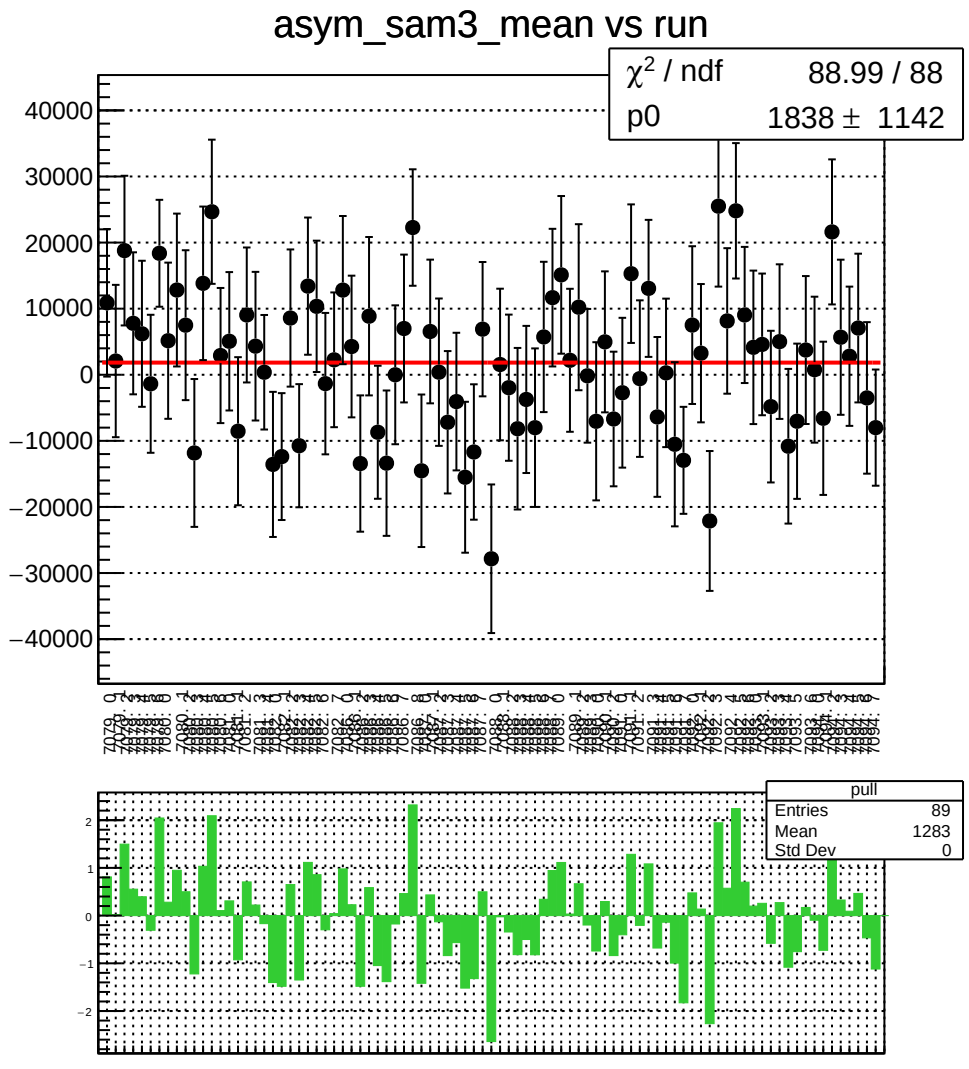

pull1D
Entries 89
Mean 0.01731
Std Dev 0.9129
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

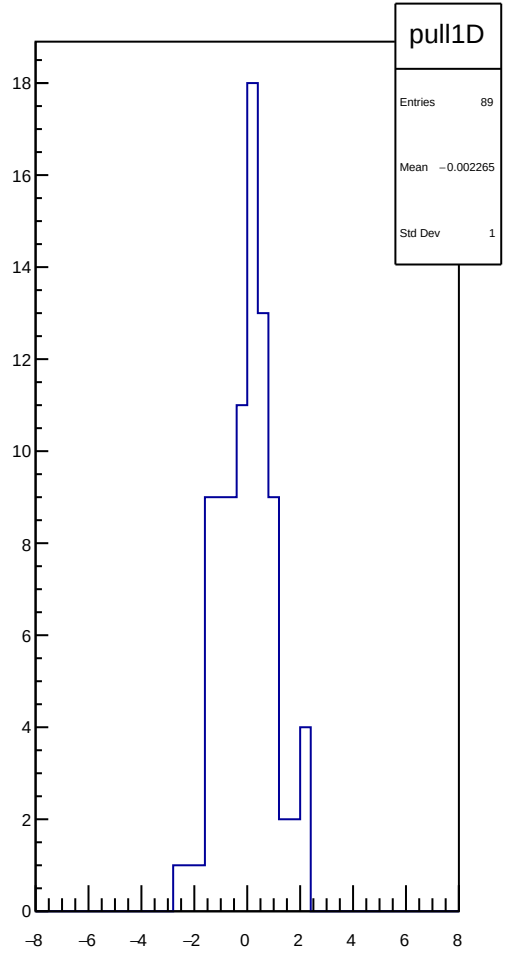

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.849e+04 / 88
p0 112.3 ± 0.08745
200
180
160
140
120
100
80

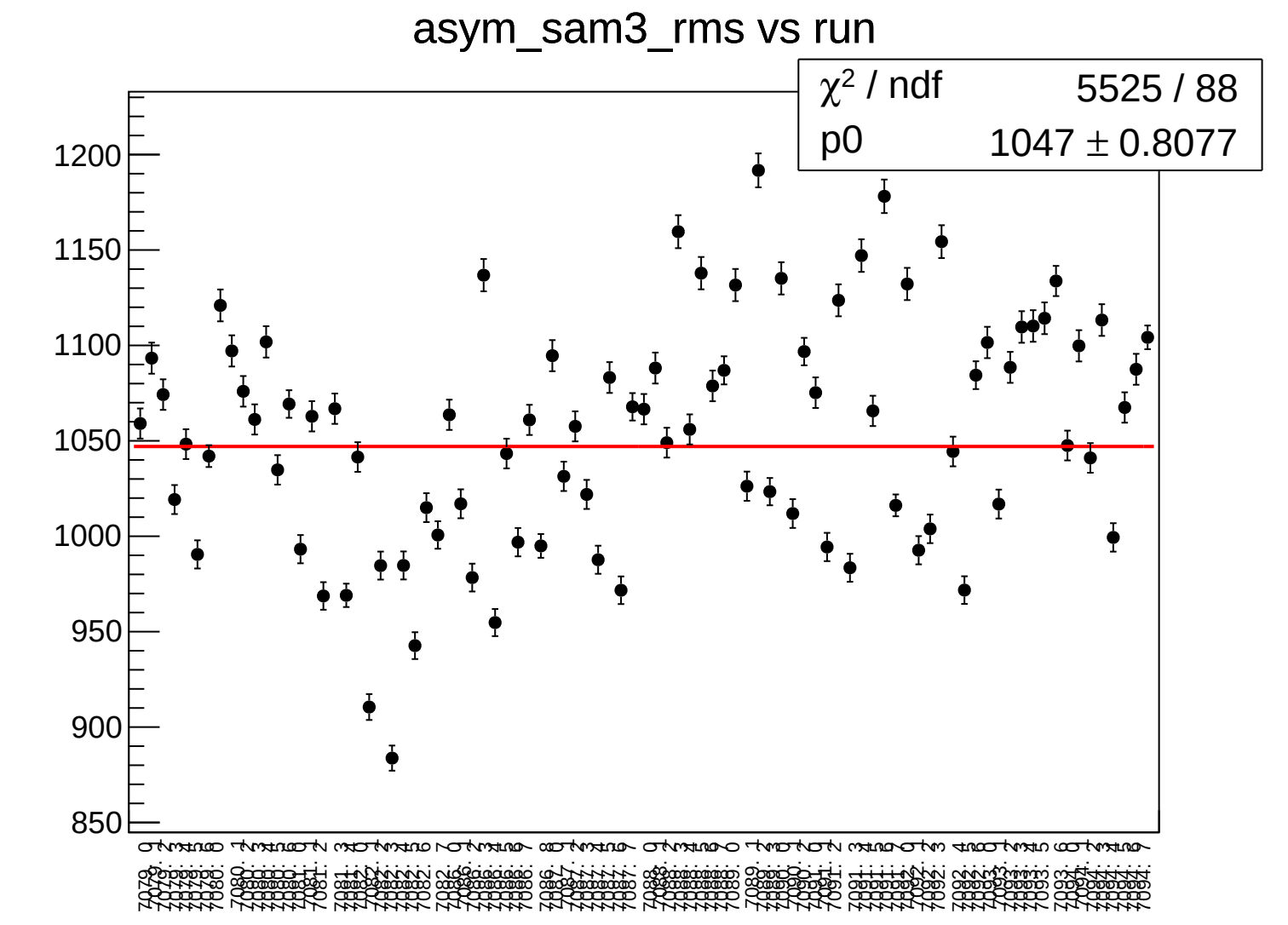

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 91 / 88
p0 −1820 ± 1091
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 511
Std Dev 0
2
1
0
−1
−2

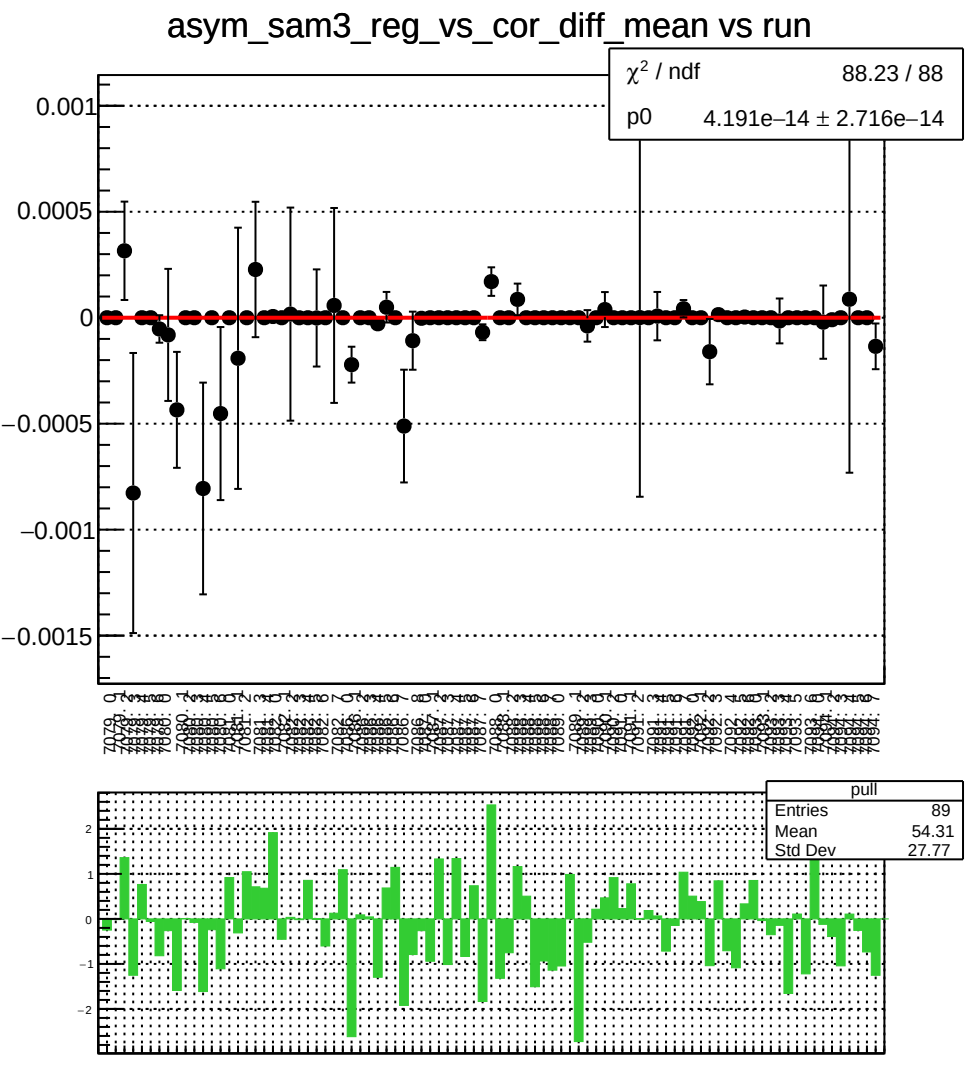

pull1D
Entries 89
Mean 0.006204
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

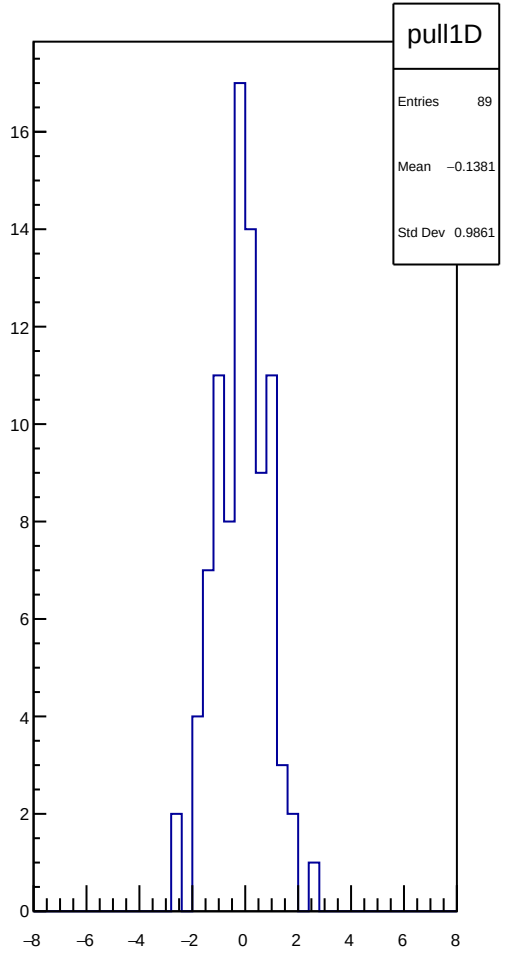

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 4442 / 88
p0 1000 ± 0.7711
1150
1100
1050
1000
950
900
850

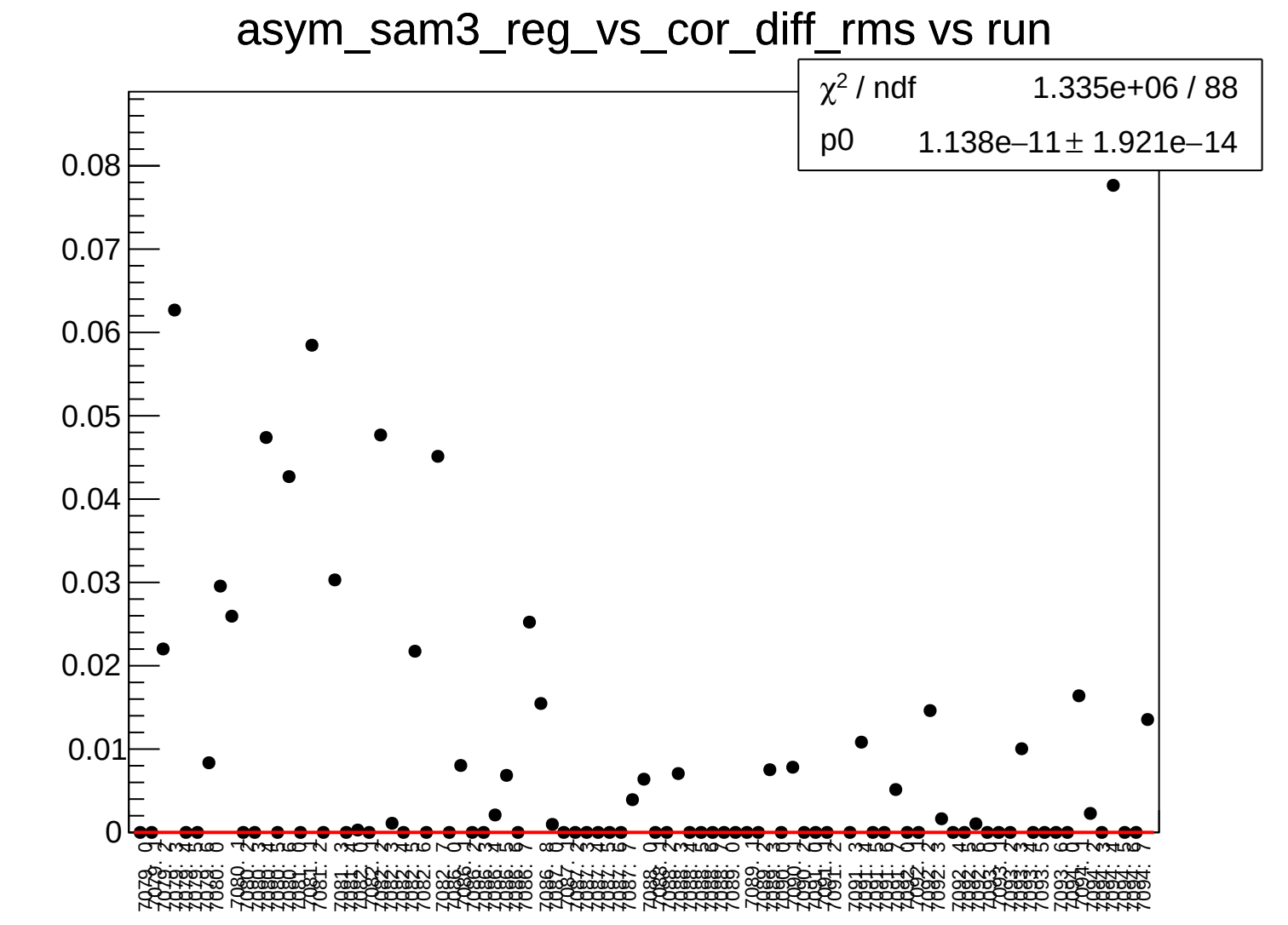

asym_sam3_mean vs run
χ² / ndf 88.99 / 88
p0 1838 ± 1142
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 1283
Std Dev 0
2
1
0
−1
−2

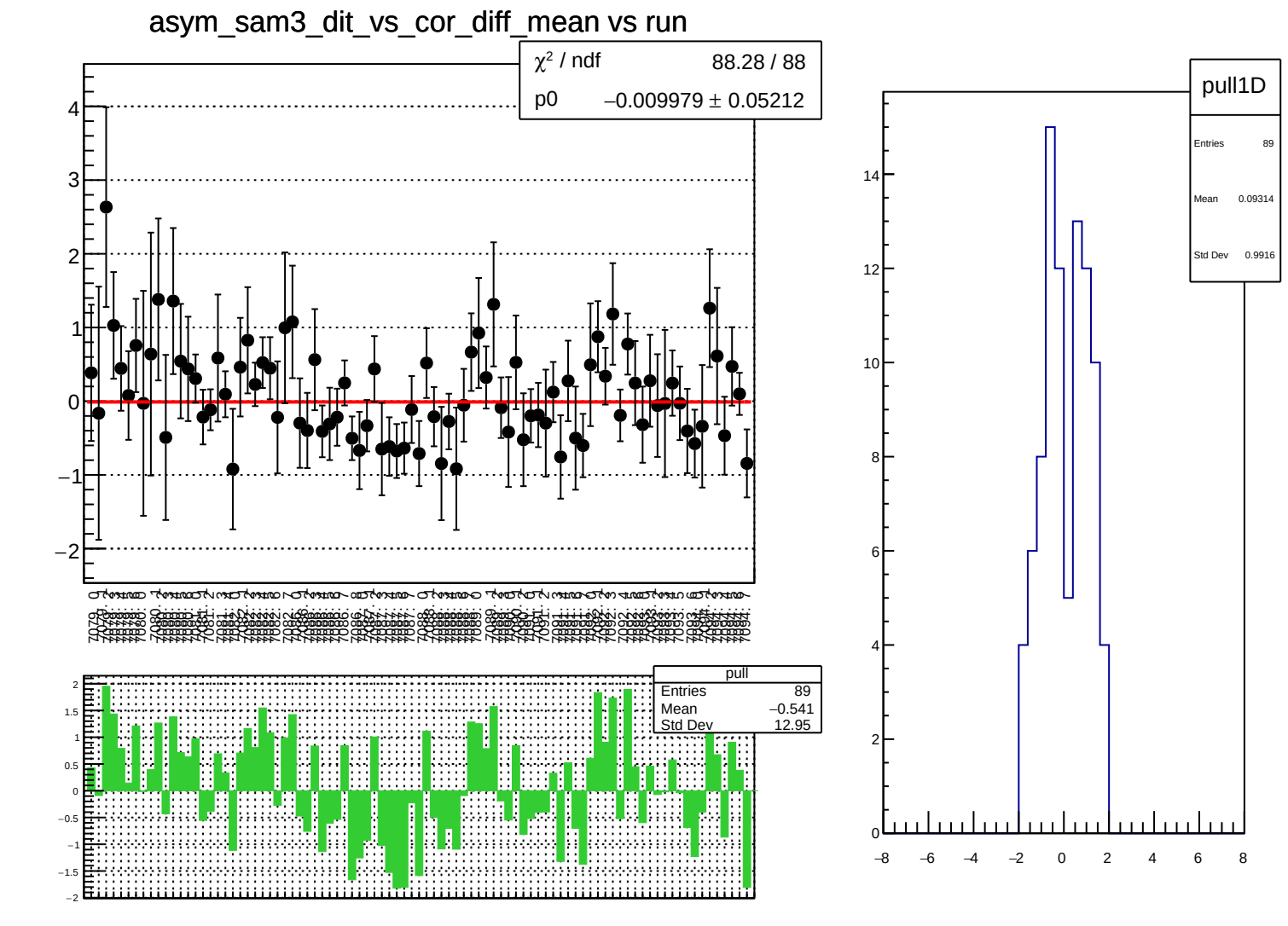

pull1D
Entries 89
Mean −0.002265
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

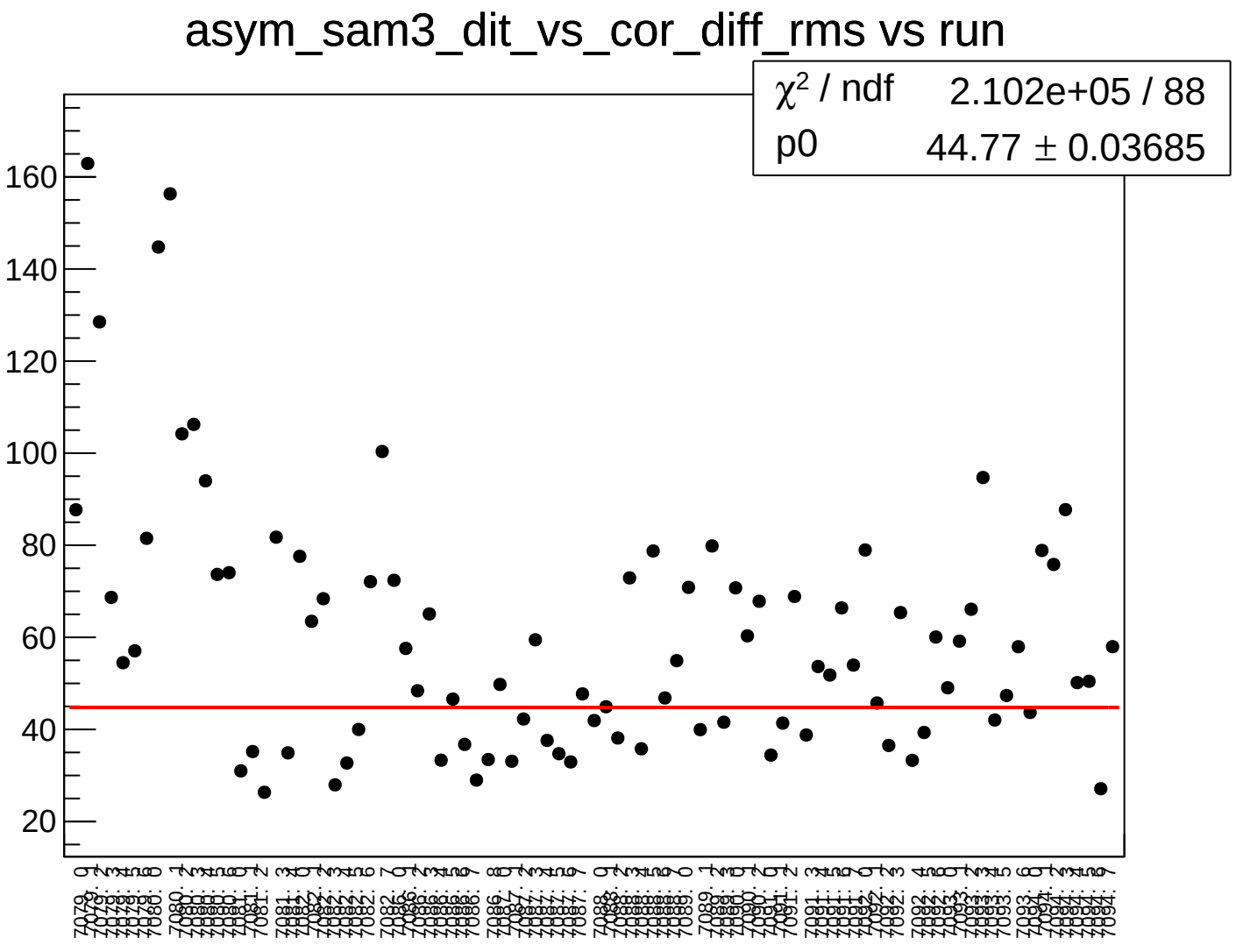

asym_sam3_rms vs run
χ² / ndf 5525 / 88
p0 1047 ± 0.8077
1200
1150
1100
1050
1000
950
900
850

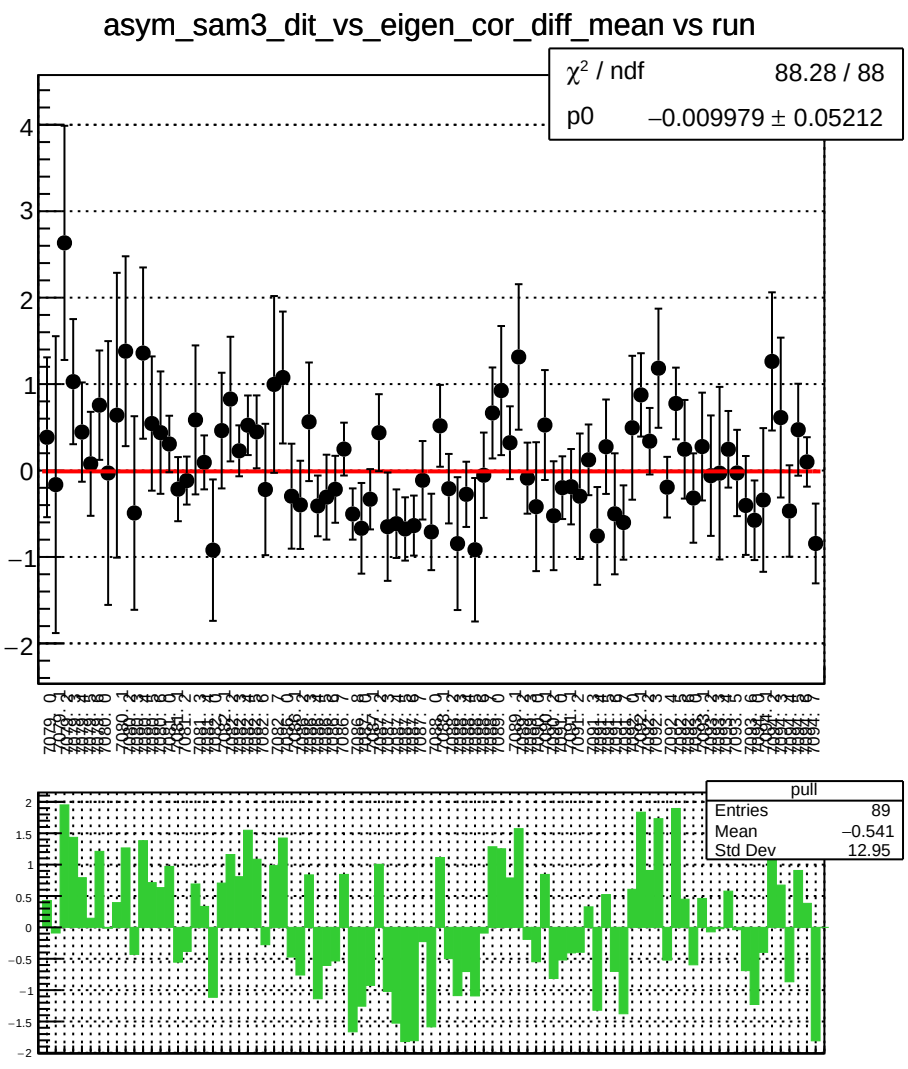

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 88.23 / 88
p0 4.191e−14 ± 2.716e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 54.31
Std Dev 27.77
2
1
0
−1
−2

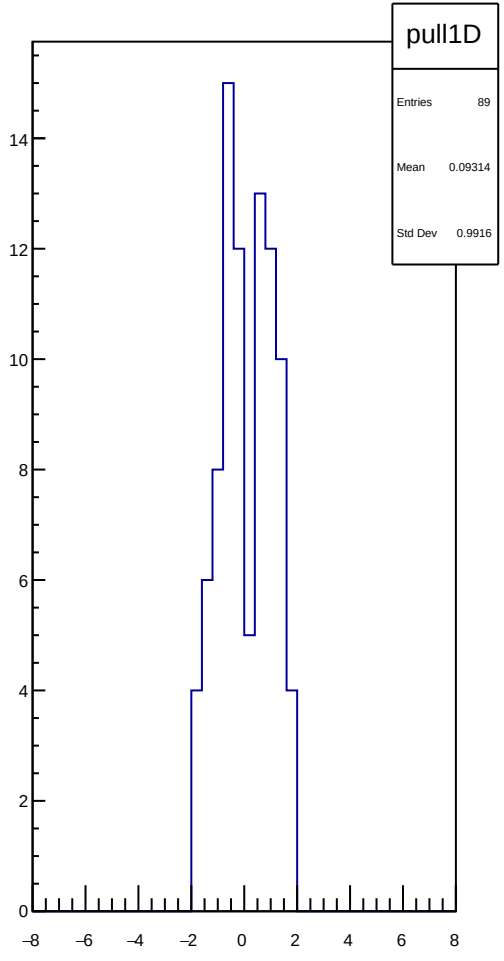

pull1D
Entries 89
Mean −0.1381
Std Dev 0.9861
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

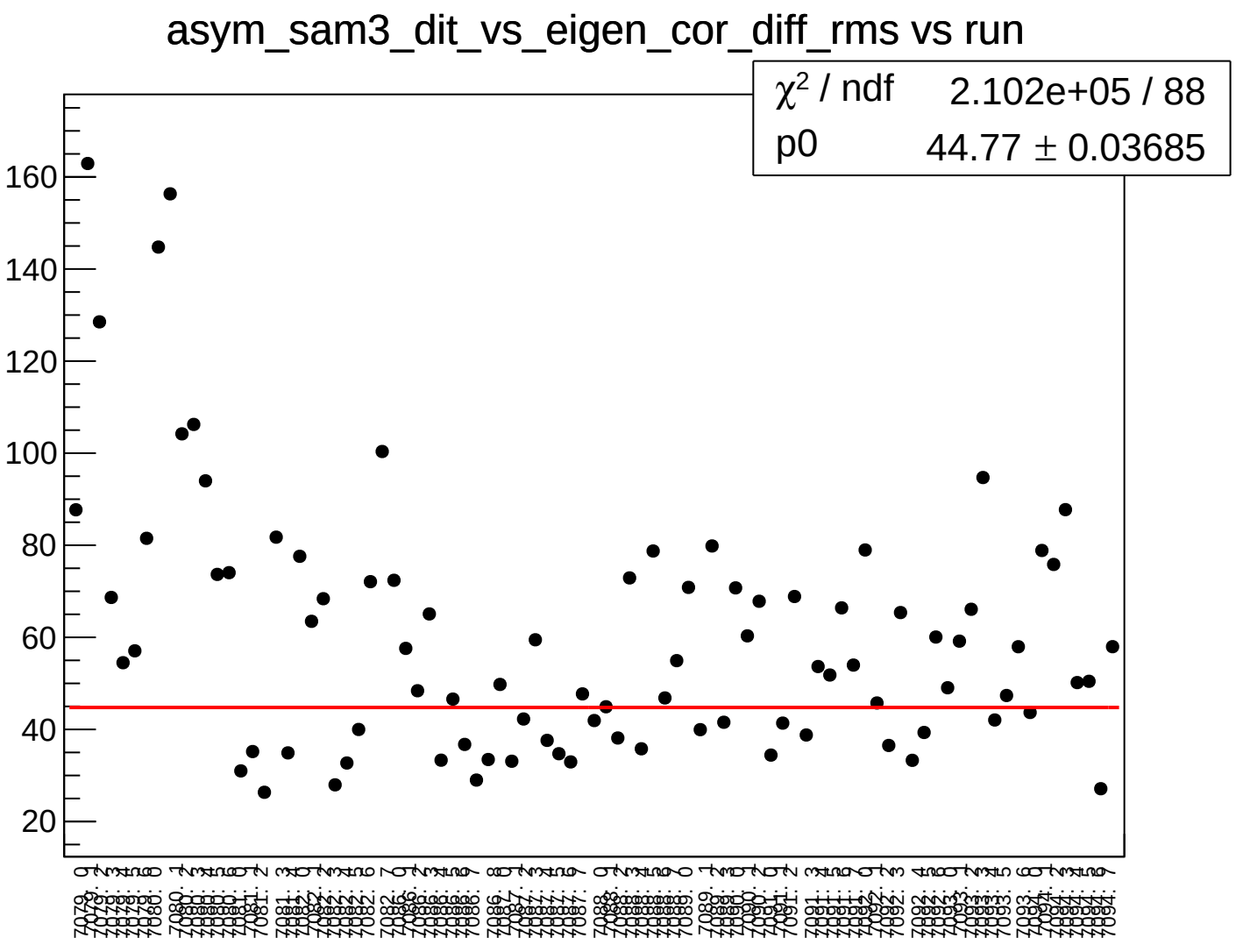

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.335e+06 / 88
p0 1.138e−11 ± 1.921e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

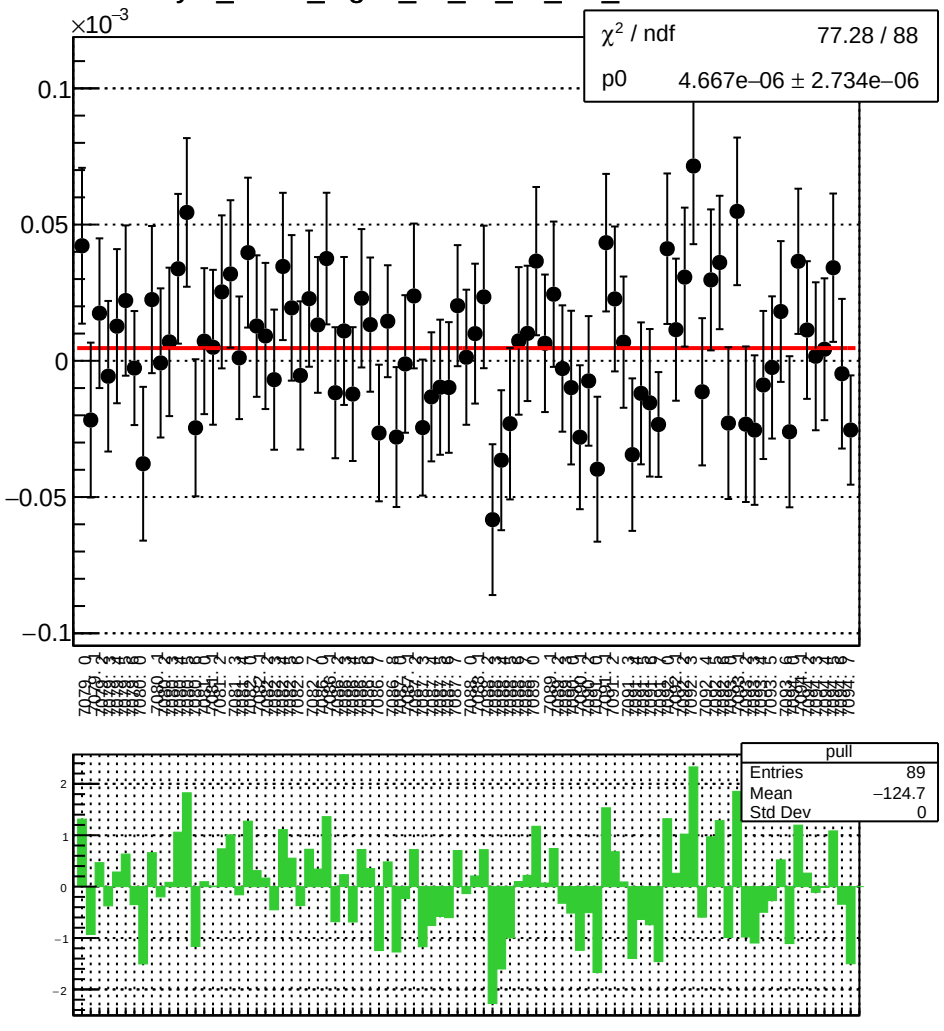

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 88.28 / 88
p0 −0.009979 ± 0.05212
pull
Entries 89
Mean −0.541
Std Dev 12.95
pull1D
Entries 89
Mean 0.09314
Std Dev 0.9916

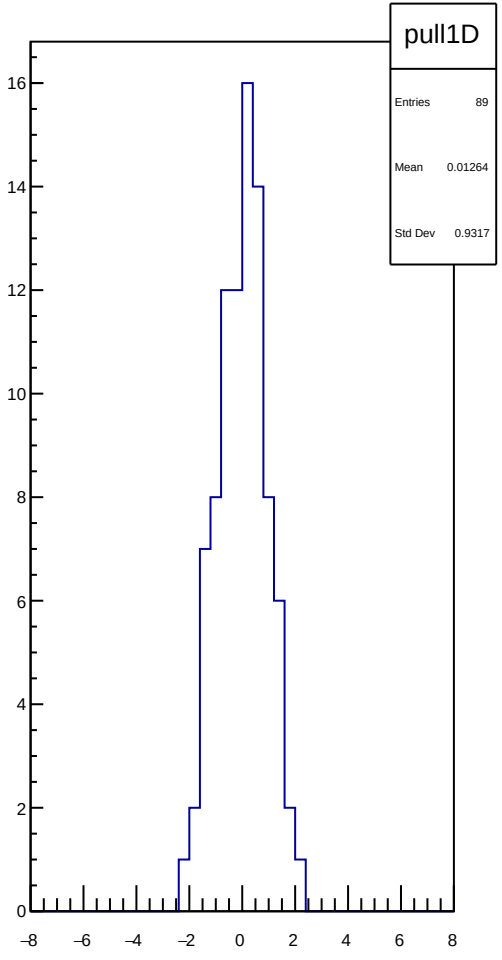

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.102e+05 / 88
p0 44.77 ± 0.03685
160
140
120
100
80
60
40
20

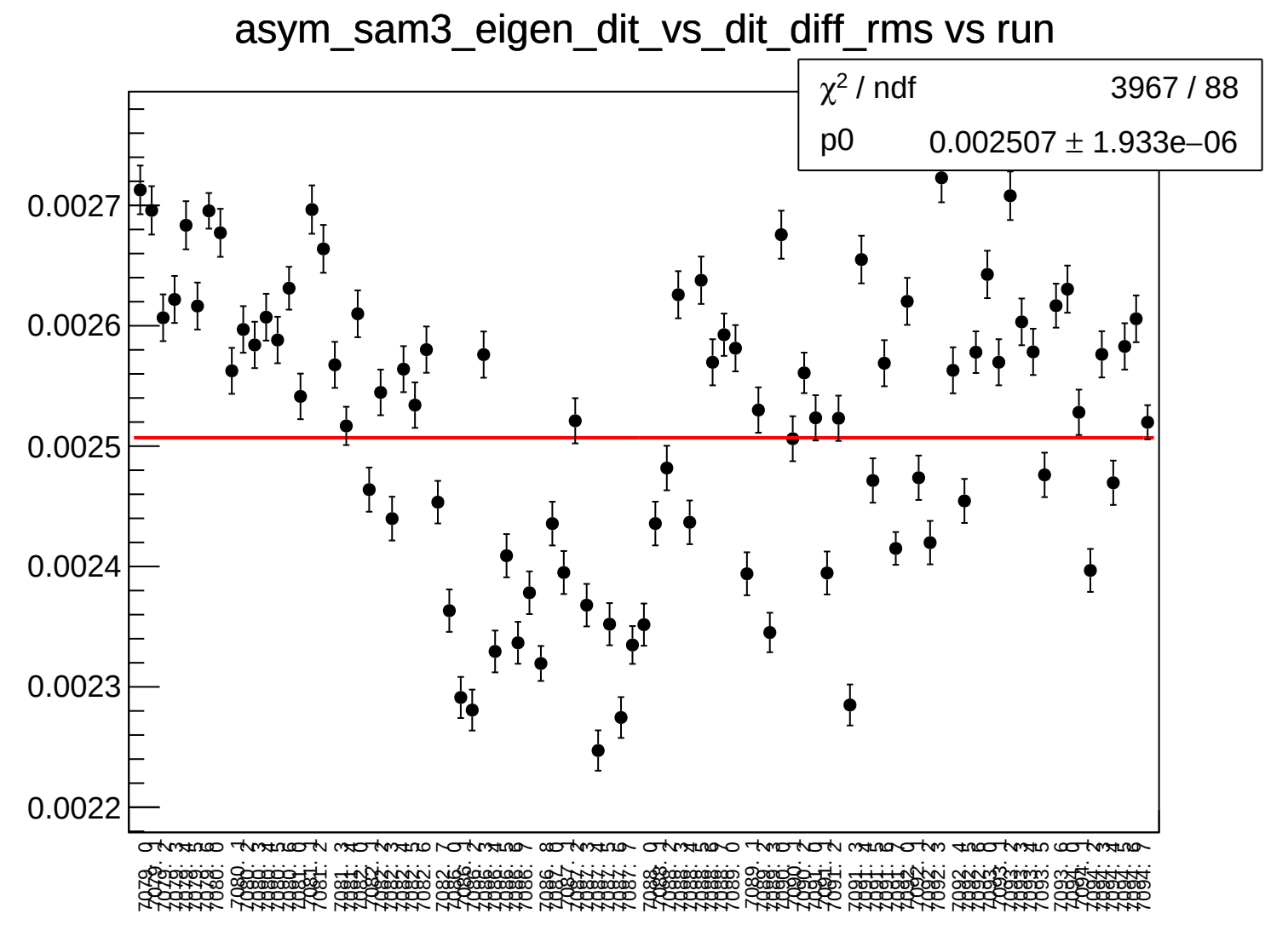

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.28 / 88
p0 −0.009979 ± 0.05212
pull
Entries 89
Mean −0.541
Std Dev 12.95

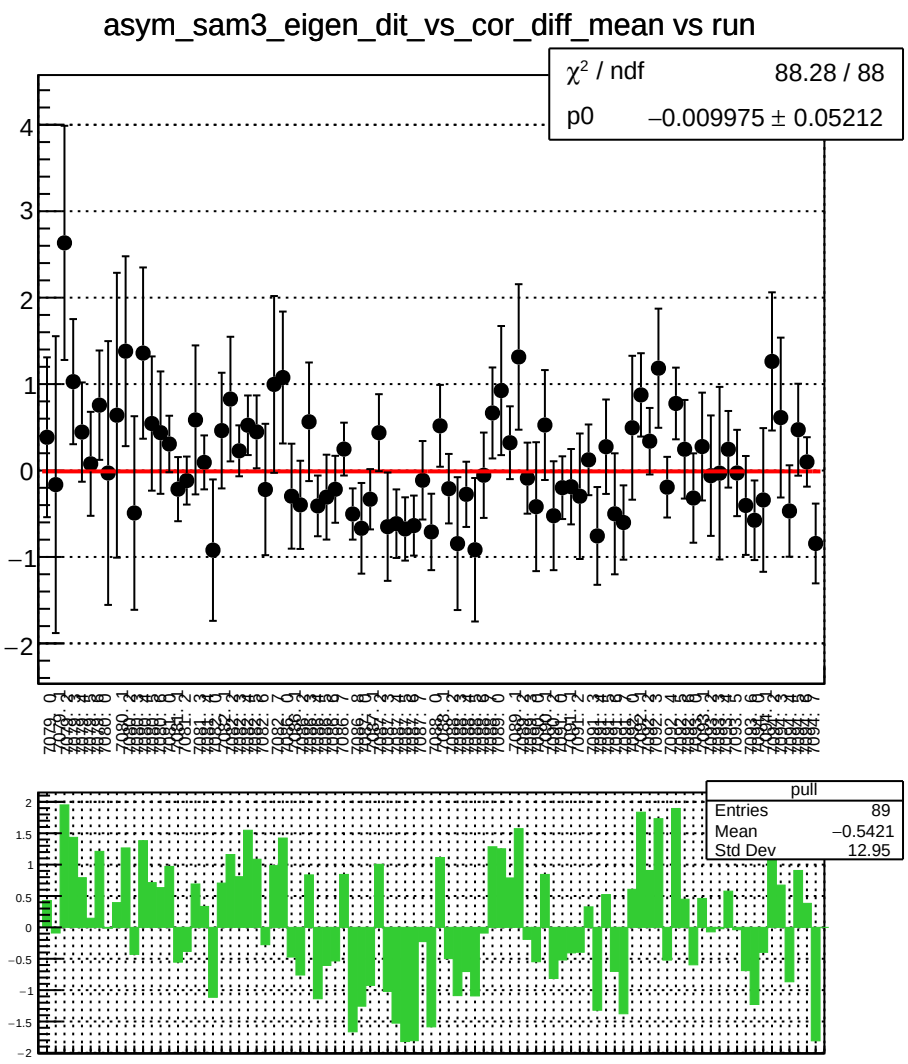

pull1D
Entries 89
Mean 0.09314
Std Dev 0.9916

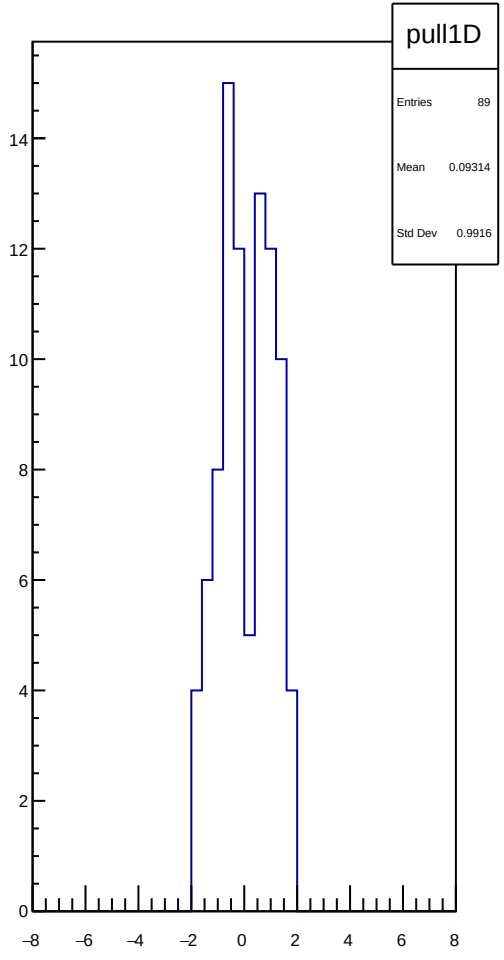

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.102e+05 / 88
p0 44.77 ± 0.03685
160
140
120
100
80
60
40
20

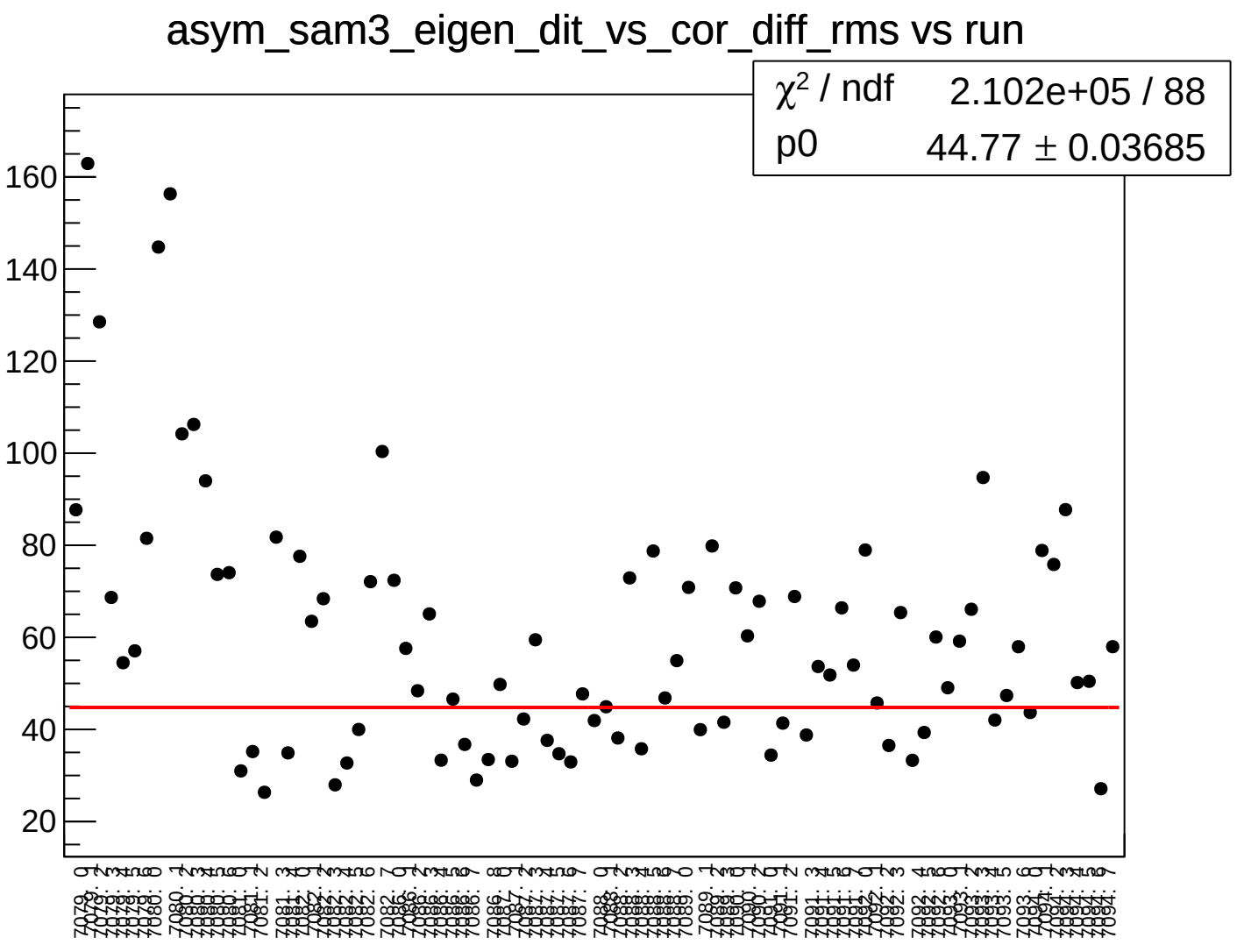

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.28 / 88
p0 4.667e−06 ± 2.734e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −124.7
Std Dev 0
2
1
0
−1
−2

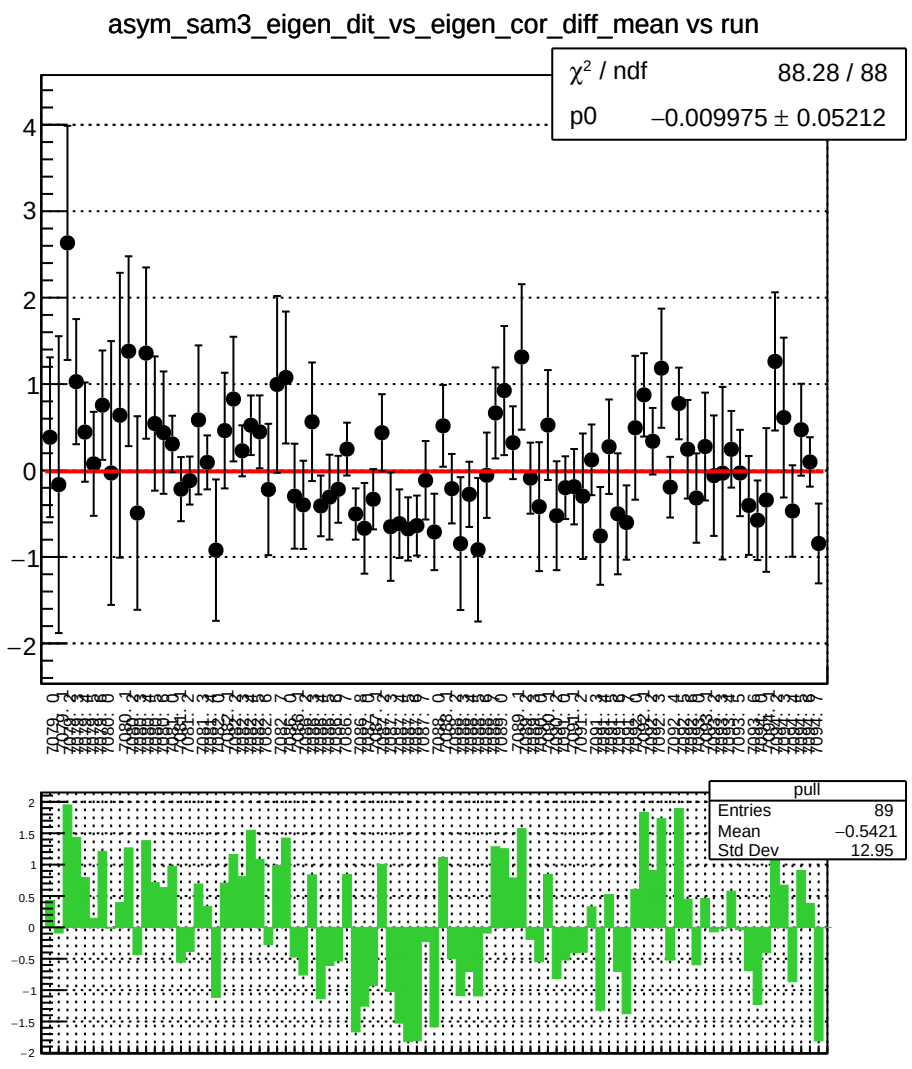

pull1D
Entries 89
Mean 0.01264
Std Dev 0.9317
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

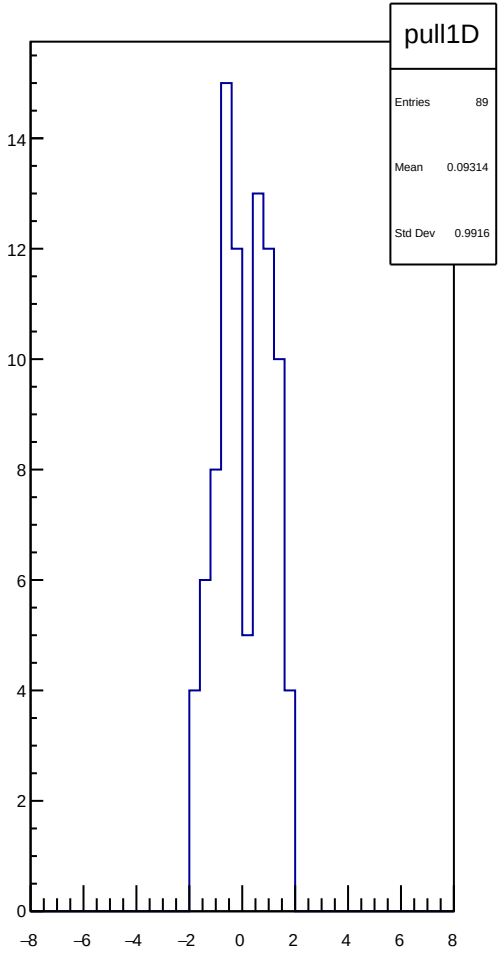

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3967 / 88
p0 0.002507 ± 1.933e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

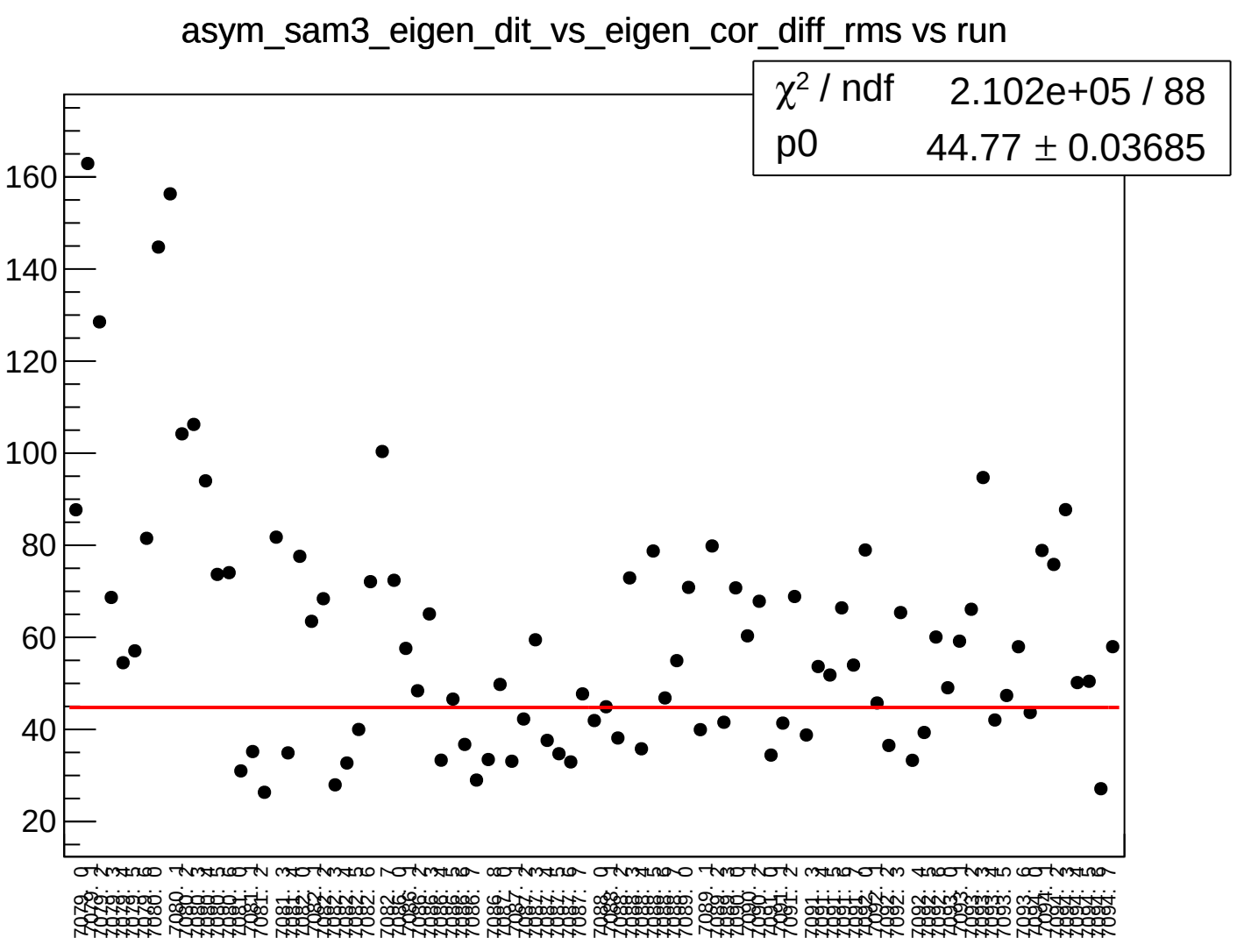

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.28 / 88
p0 −0.009975 ± 0.05212
pull
Entries 89
Mean −0.5421
Std Dev 12.95

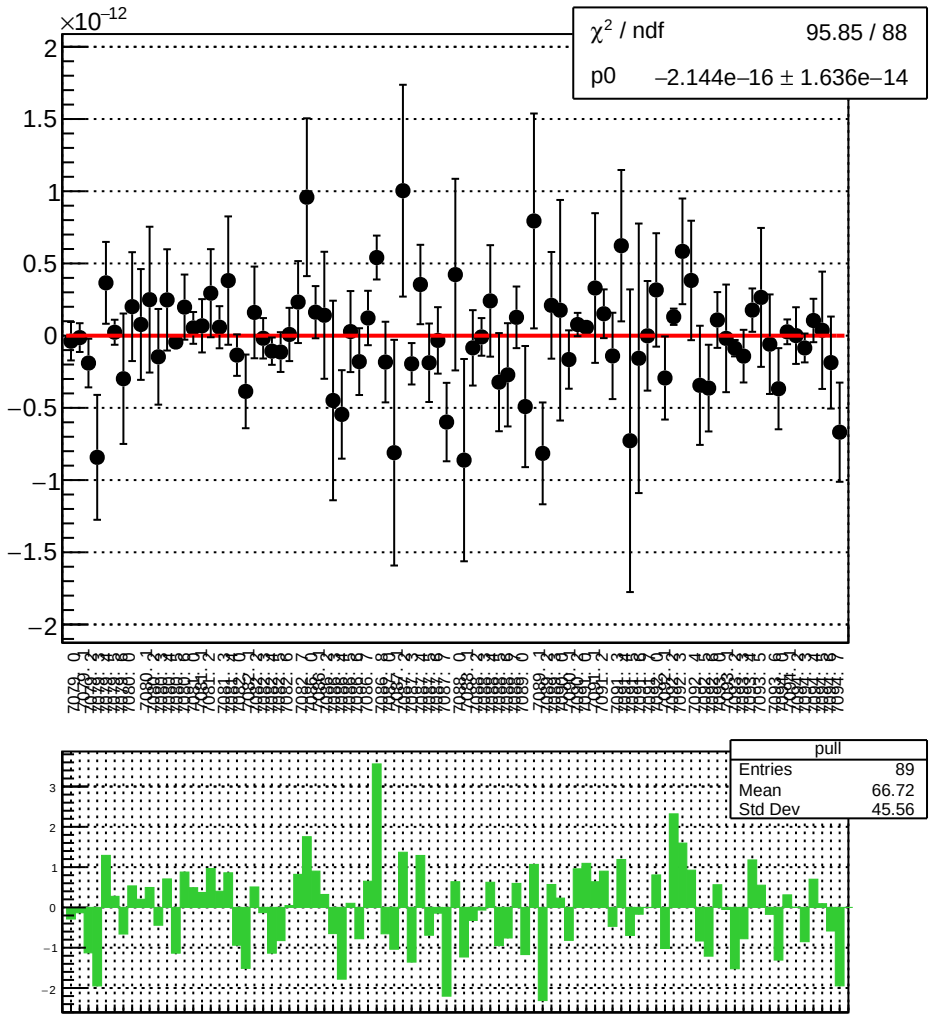

pull1D
Entries 89
Mean 0.09314
Std Dev 0.9916

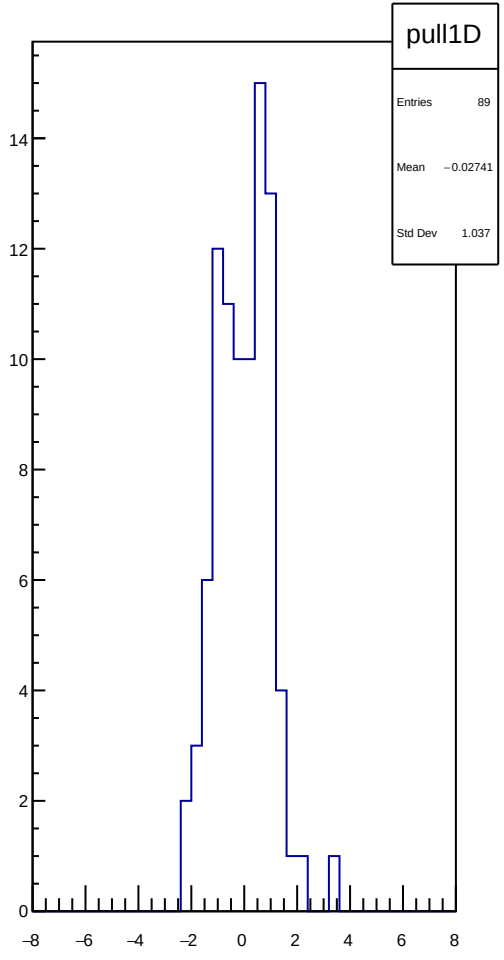

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.102e+05 / 88
p0 44.77 ± 0.03685
160
140
120
100
80
60
40
20

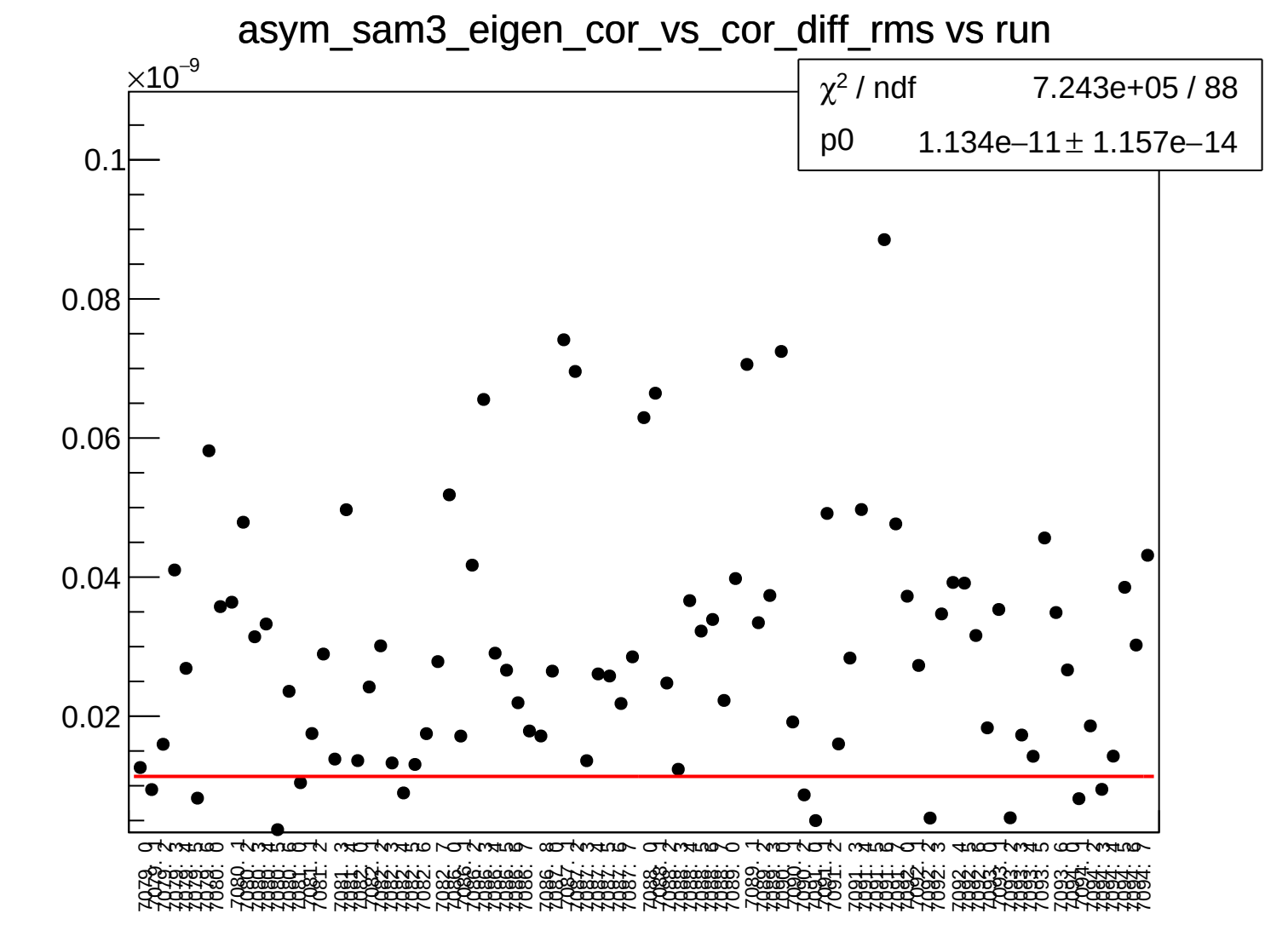

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.28 / 88
p0 −0.009975 ± 0.05212
pull
Entries 89
Mean −0.5421
Std Dev 12.95

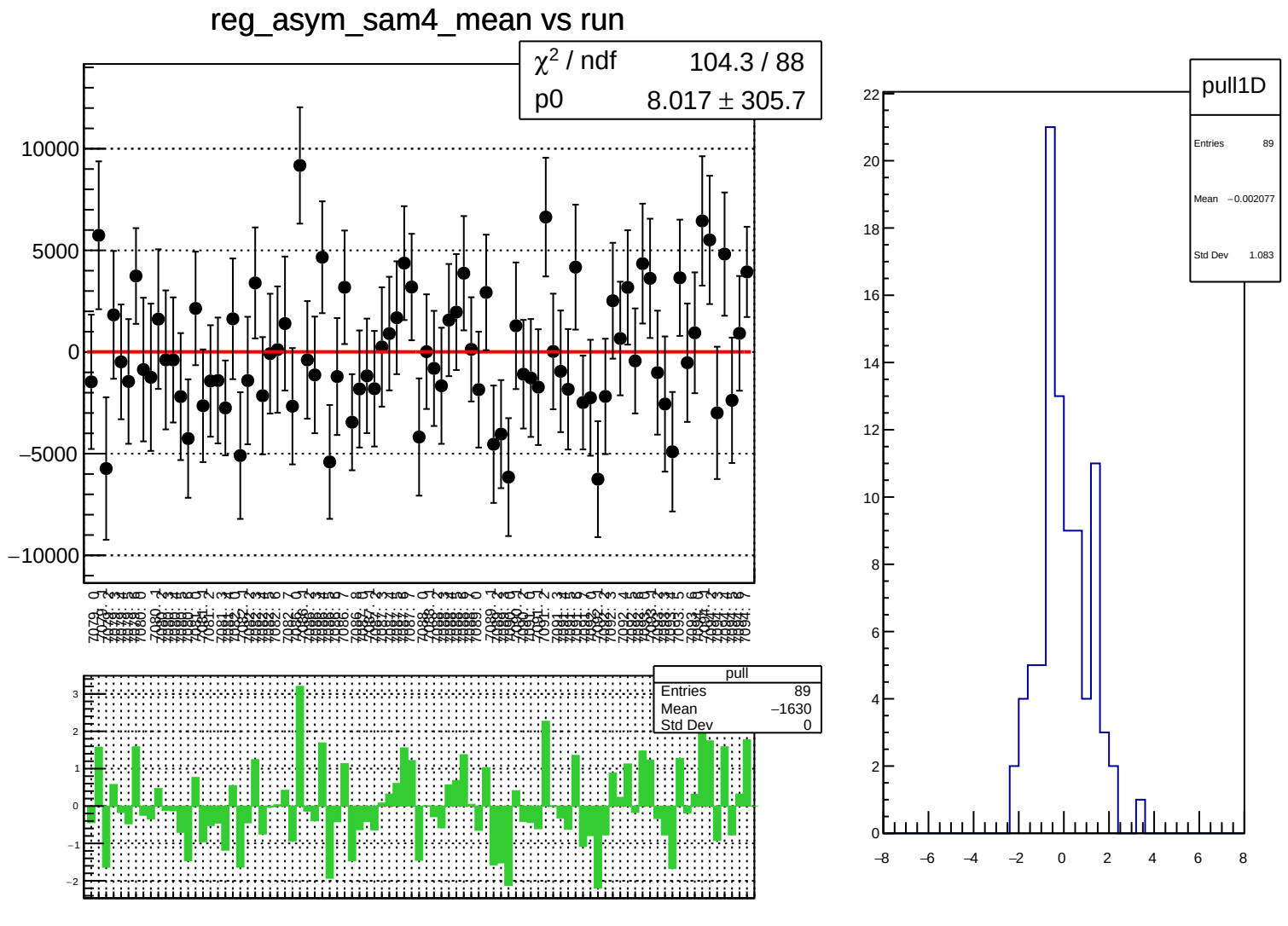

pull1D
Entries 89
Mean 0.09314
Std Dev 0.9916

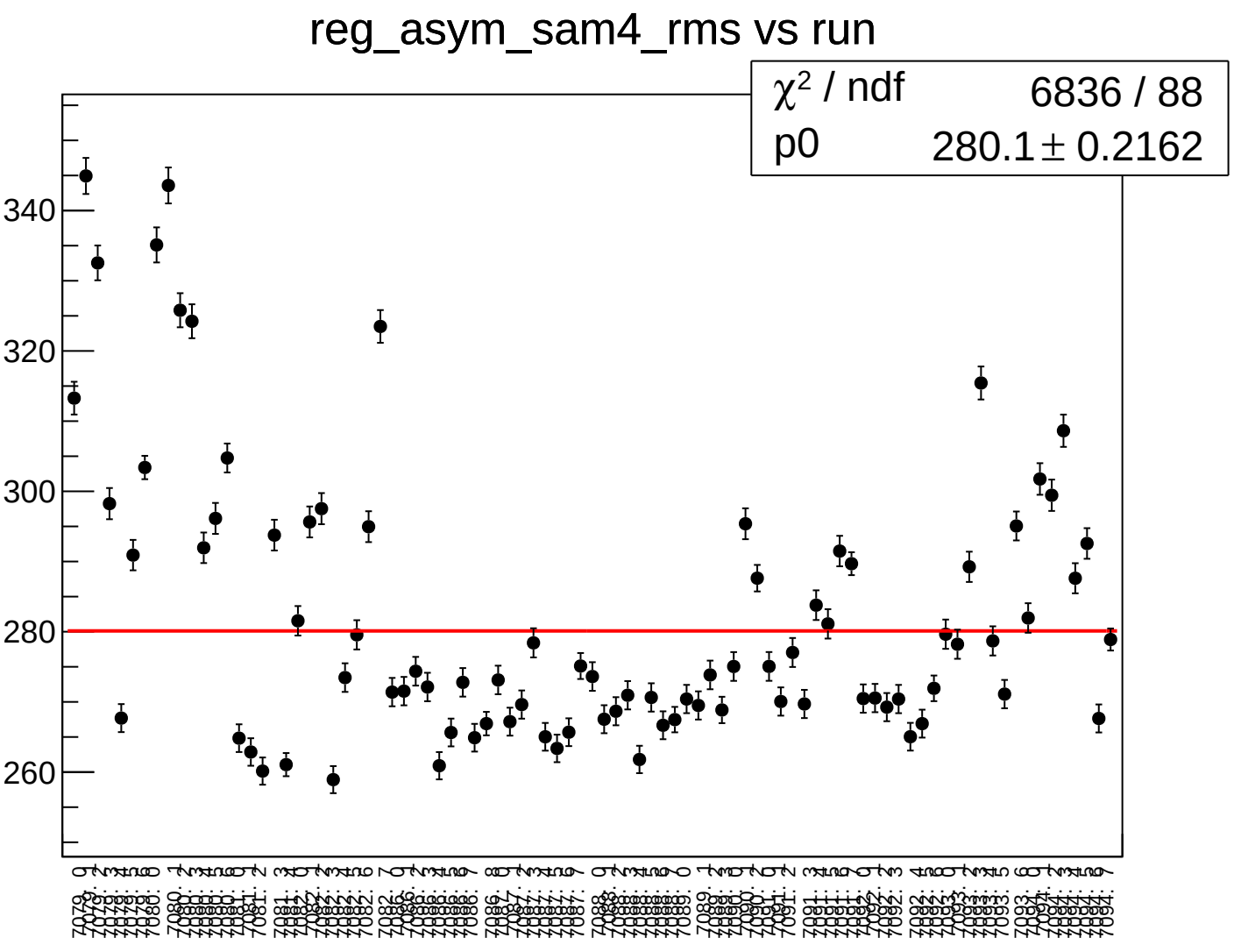

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.102e+05 / 88
p0 44.77 ± 0.03685
160
140
120
100
80
60
40
20

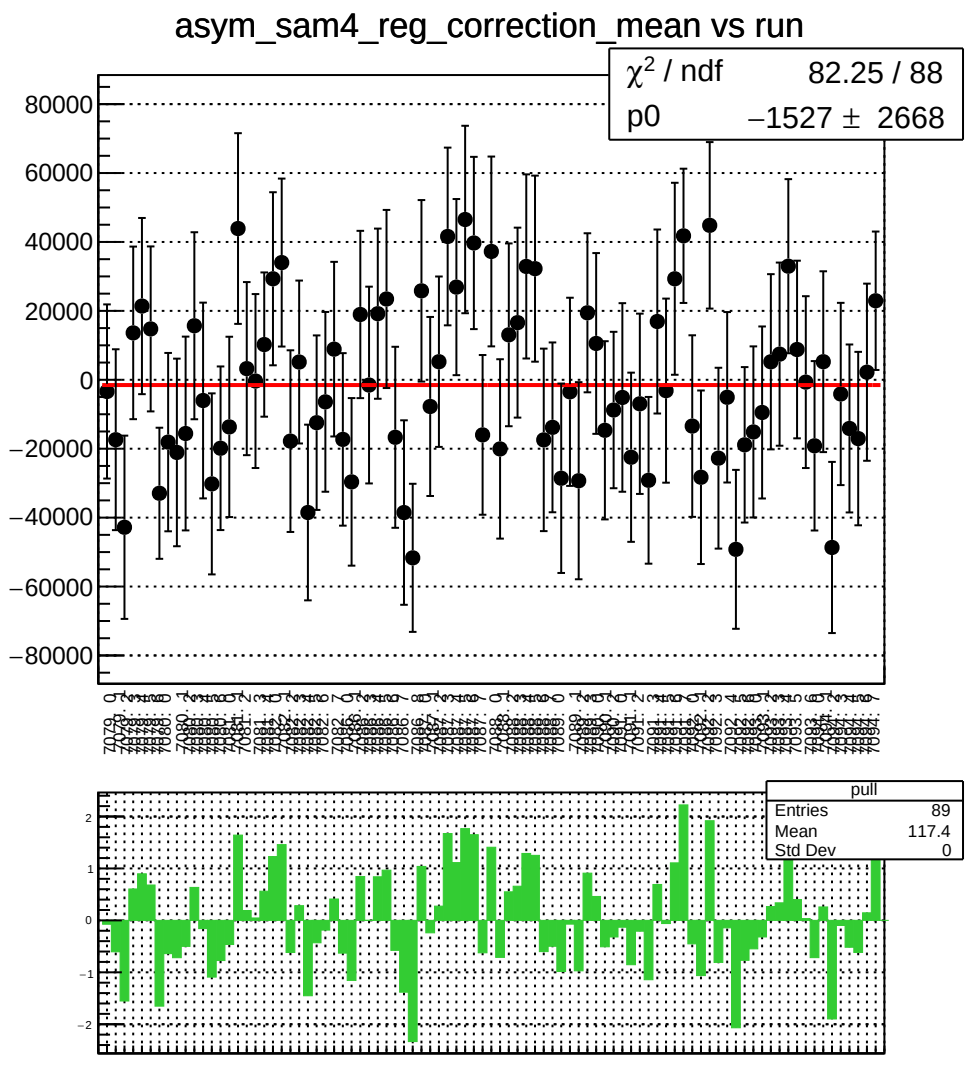

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.85 / 88
p0 −2.144e−16 ± 1.636e−14
pull
Entries 89
Mean 66.72
Std Dev 45.56

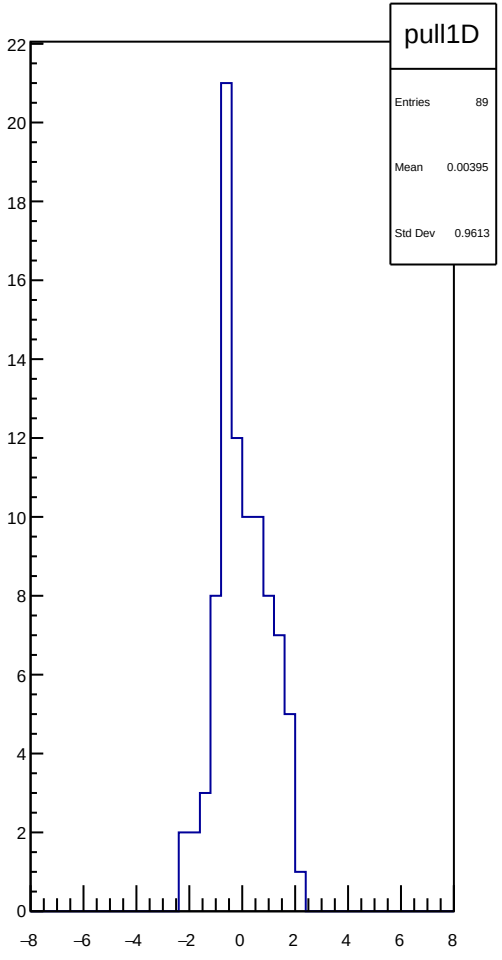

pull1D
Entries 89
Mean −0.02741
Std Dev 1.037

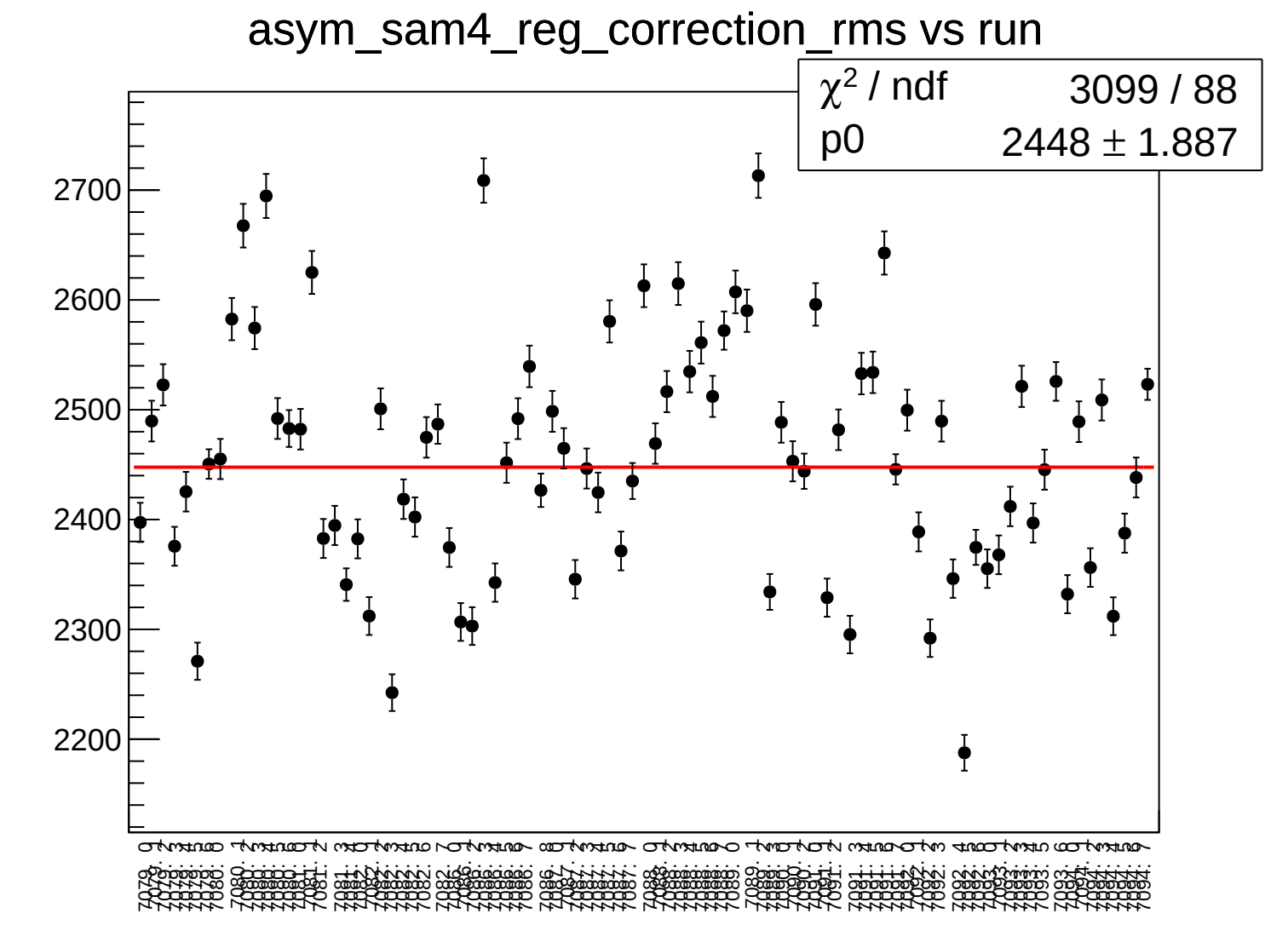

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.243e+05 / 88
p0 1.134e−11 ± 1.157e−14
0.1
0.08
0.06
0.04
0.02

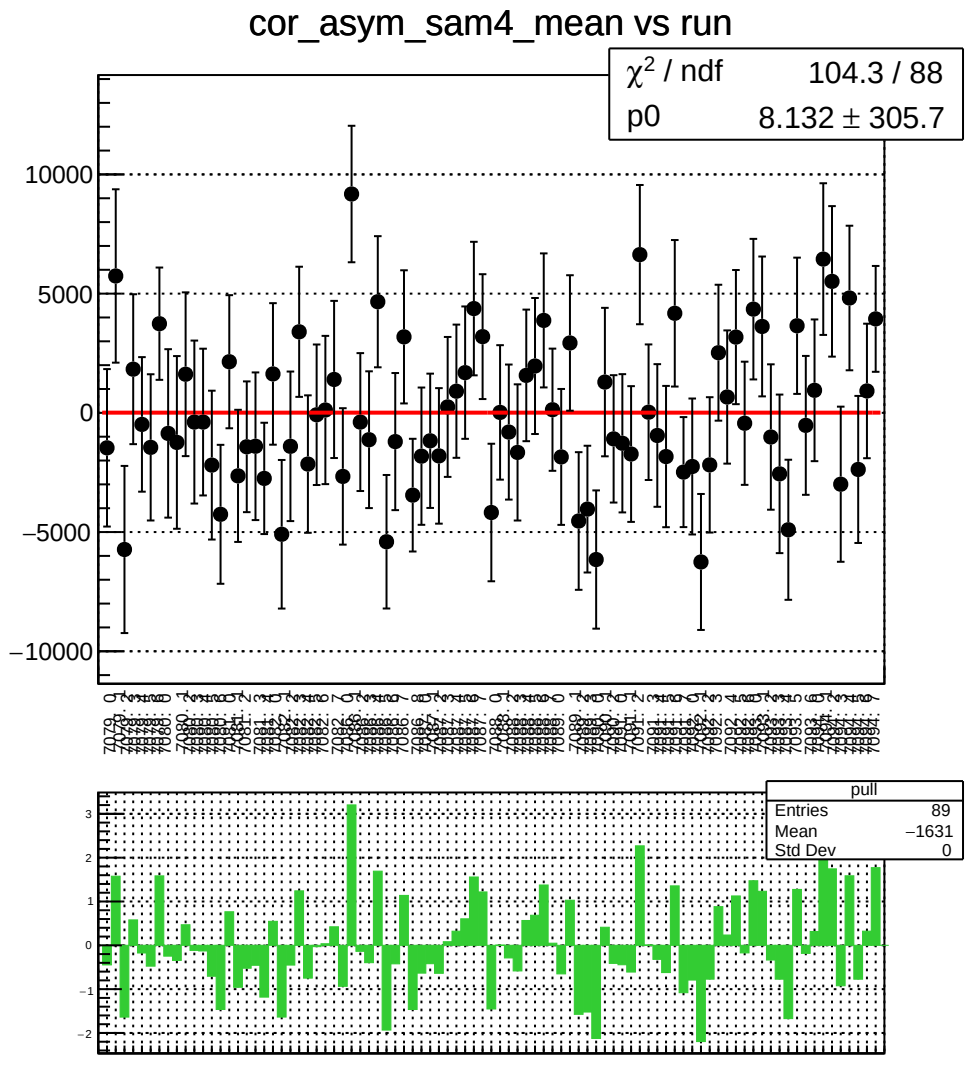

reg_asym_sam4_mean vs run
χ² / ndf 104.3 / 88
p0 8.017 ± 305.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −1630
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.002077
Std Dev 1.083
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

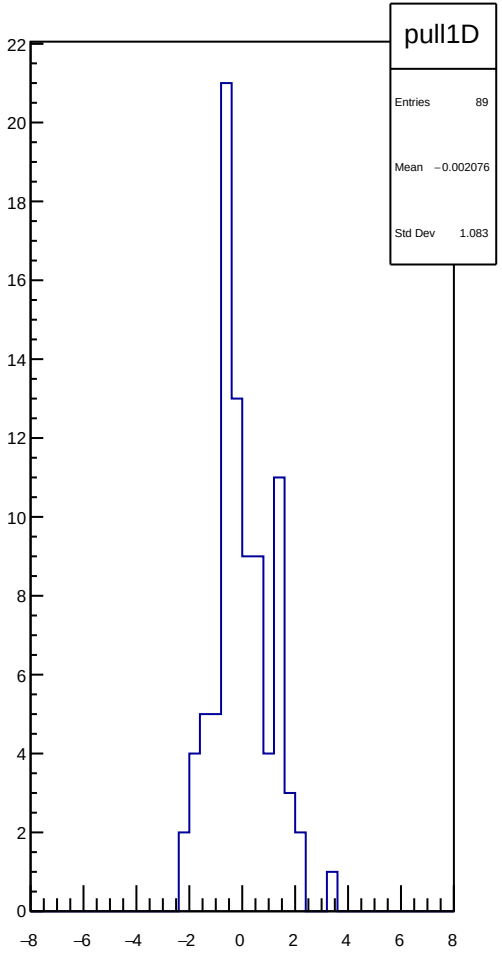

reg_asym_sam4_rms vs run
χ² / ndf 6836 / 88
p0 280.1 ± 0.2162
340
320
300
280
260

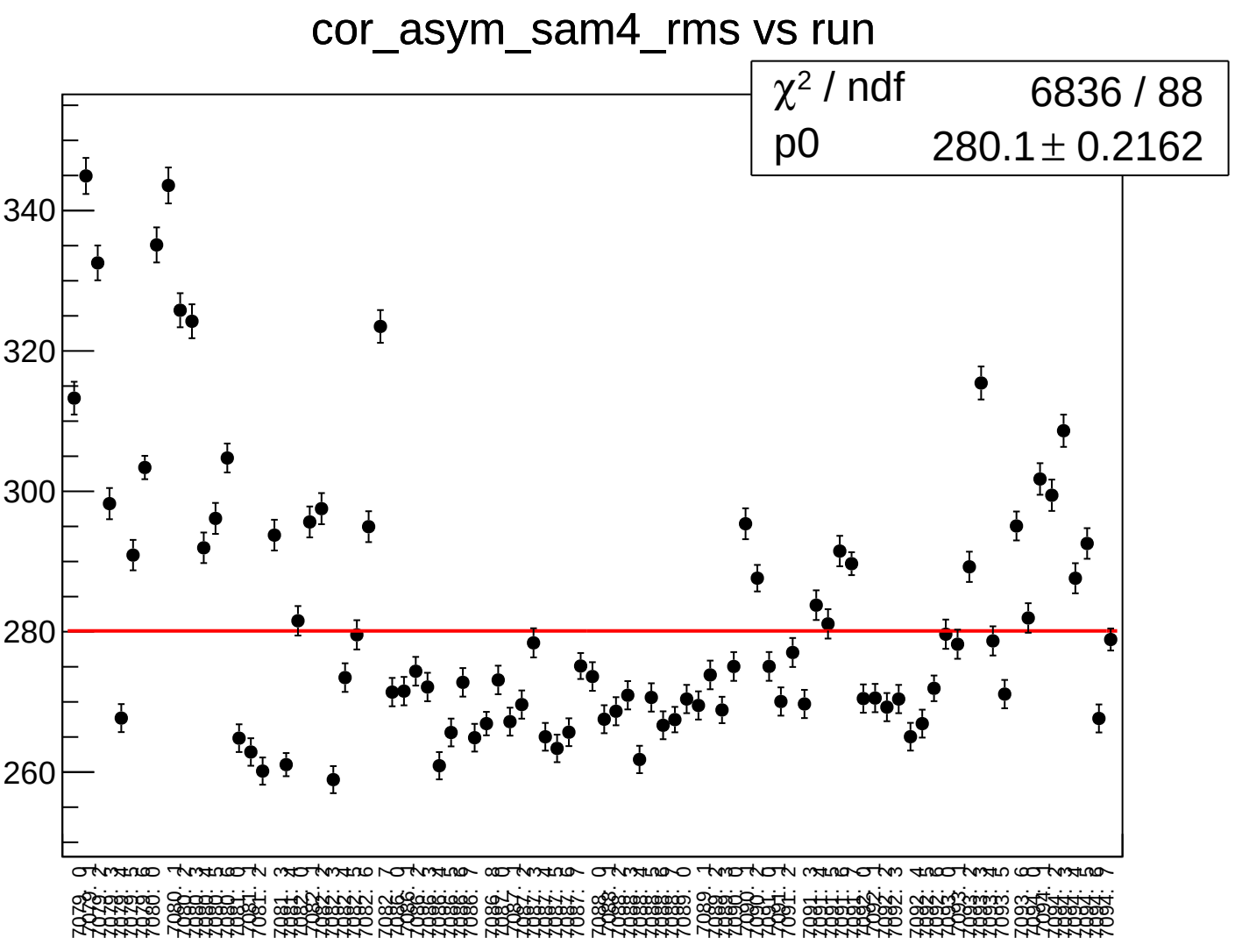

asym_sam4_reg_correction_mean vs run
χ² / ndf 82.25 / 88
p0 −1527 ± 2668
pull
Entries 89
Mean 117.4
Std Dev 0

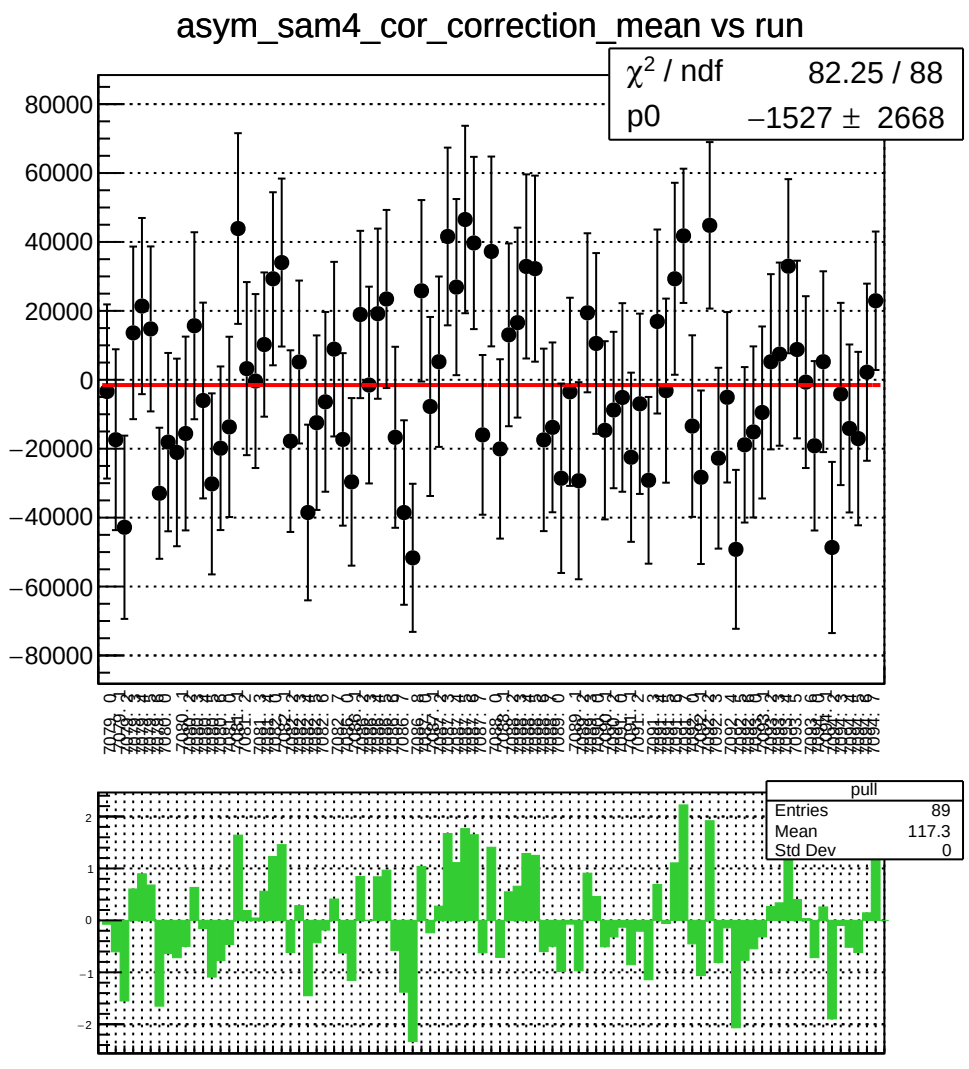

pull1D
Entries 89
Mean 0.00395
Std Dev 0.9613

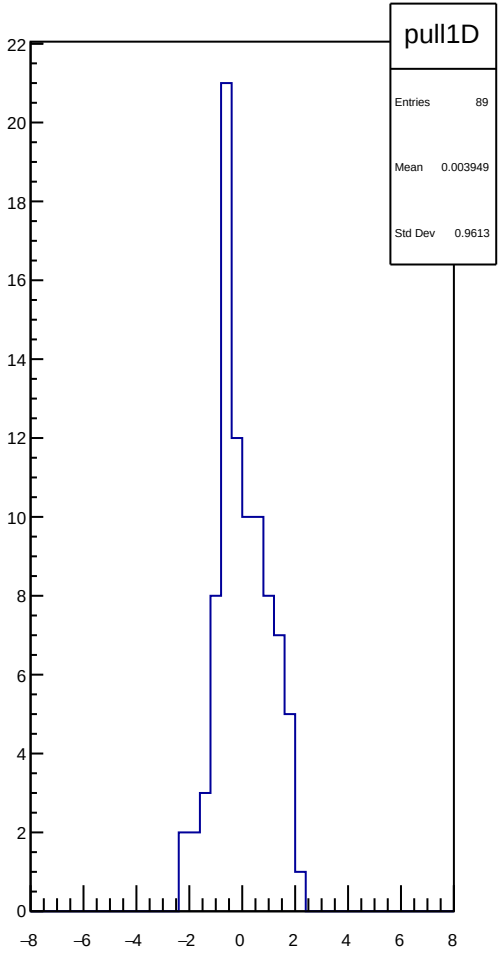

asym_sam4_reg_correction_rms vs run
χ² / ndf 3099 / 88
p0 2448 ± 1.887
2700
2600
2500
2400
2300
2200

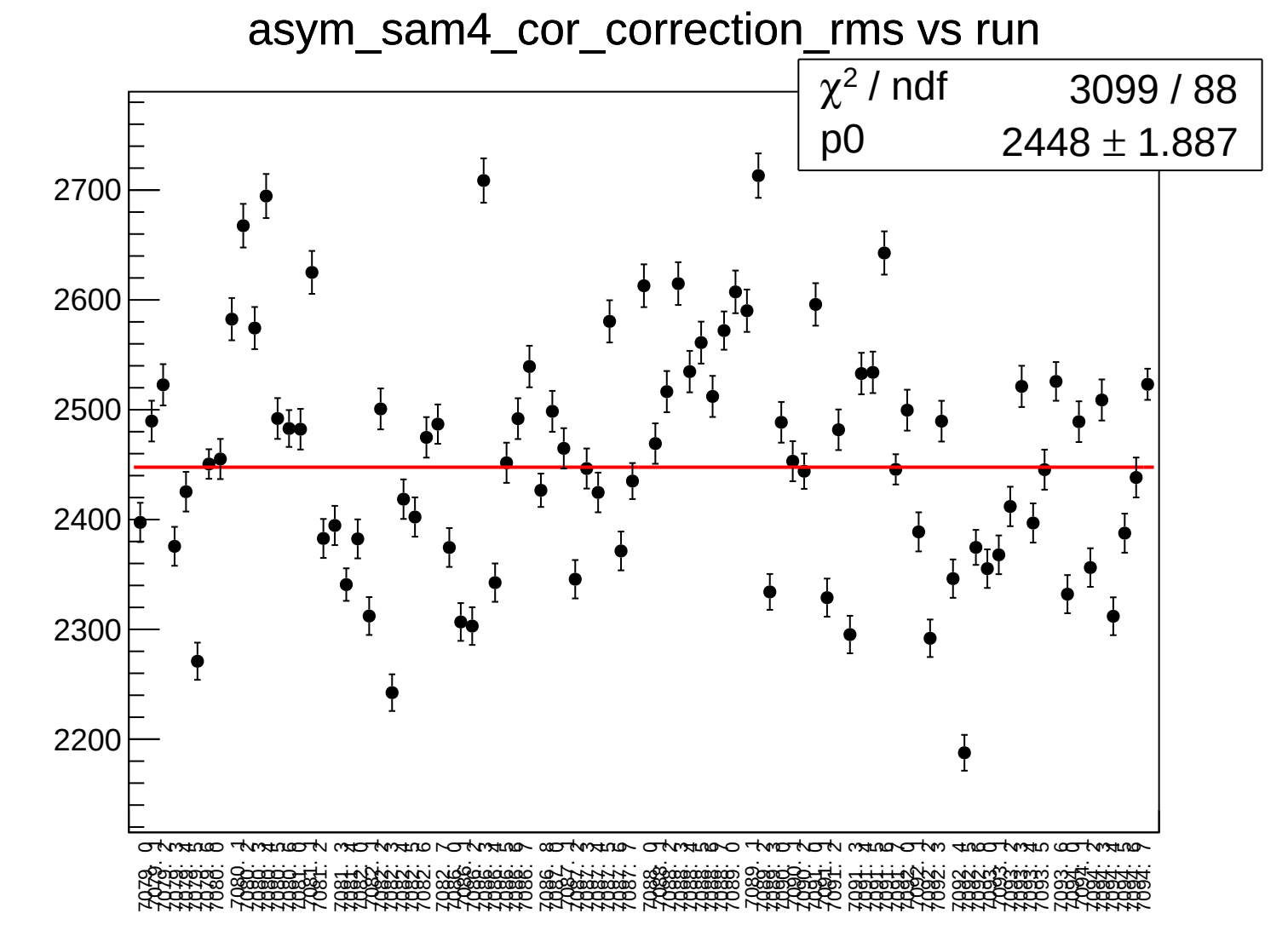

cor_asym_sam4_mean vs run
χ² / ndf 104.3 / 88
p0 8.132 ± 305.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −1631
Std Dev 0
3
2
1
0
−1
−2

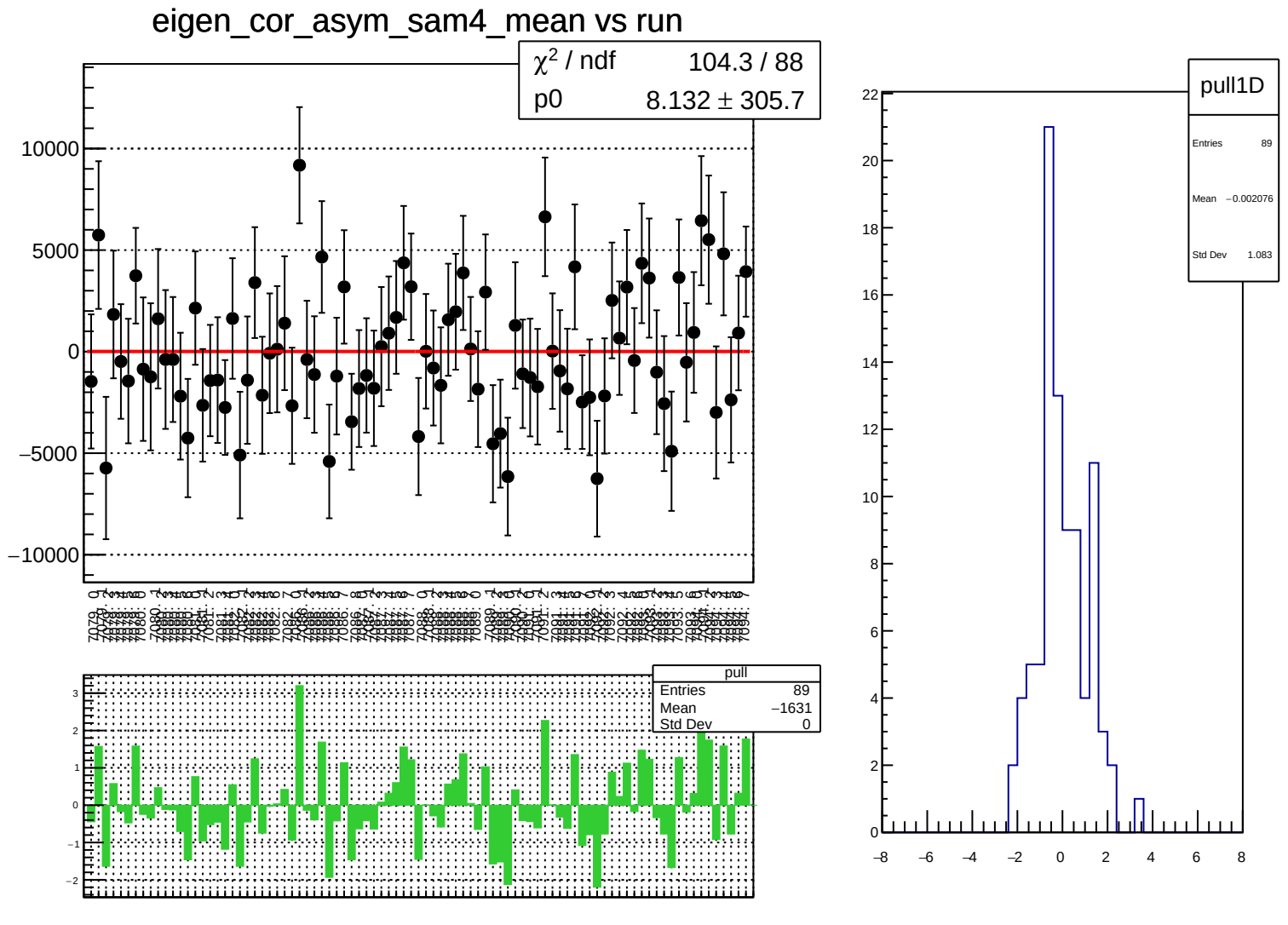

pull1D
Entries 89
Mean −0.002076
Std Dev 1.083
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

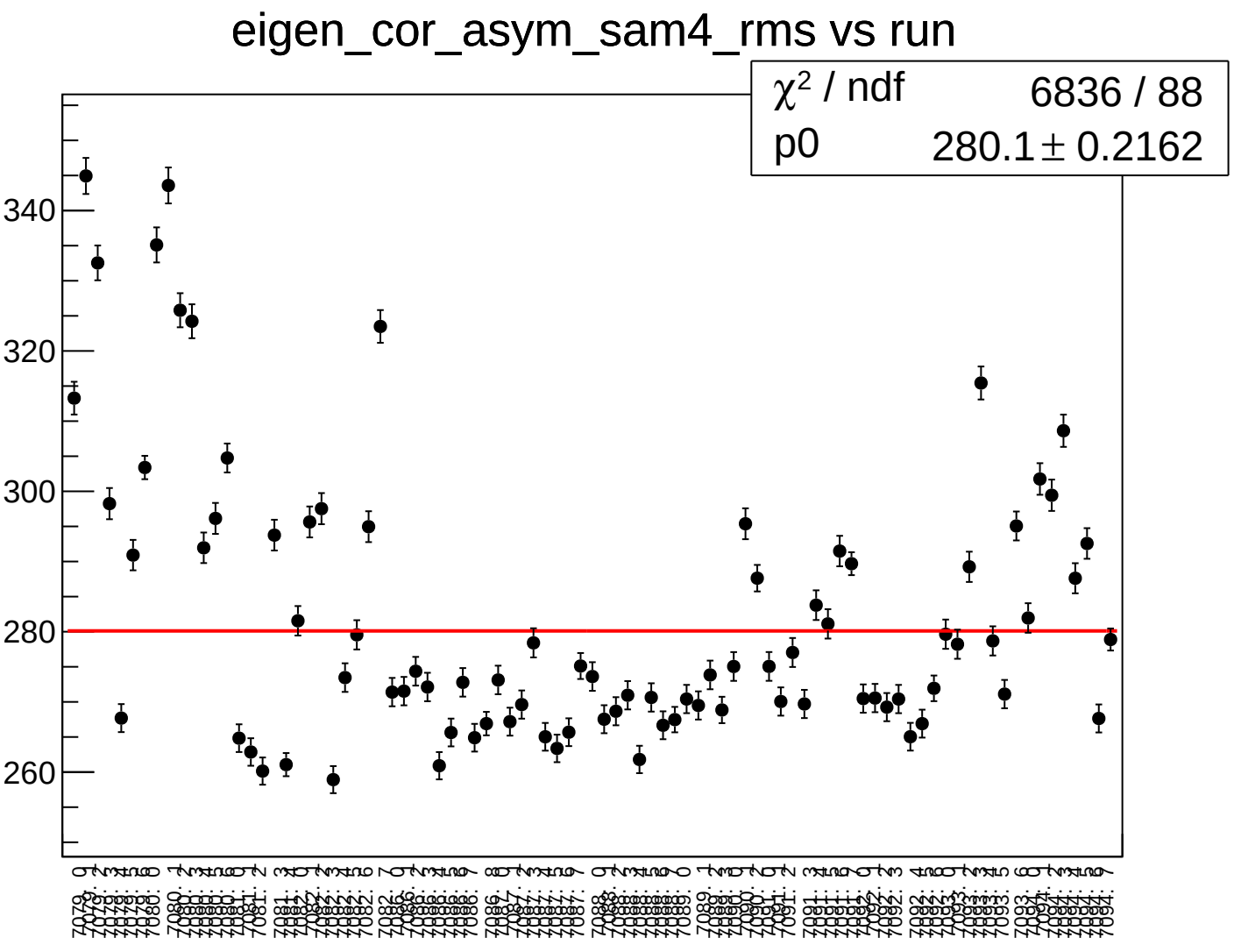

cor_asym_sam4_rms vs run
χ² / ndf 6836 / 88
p0 280.1 ± 0.2162
340
320
300
280
260

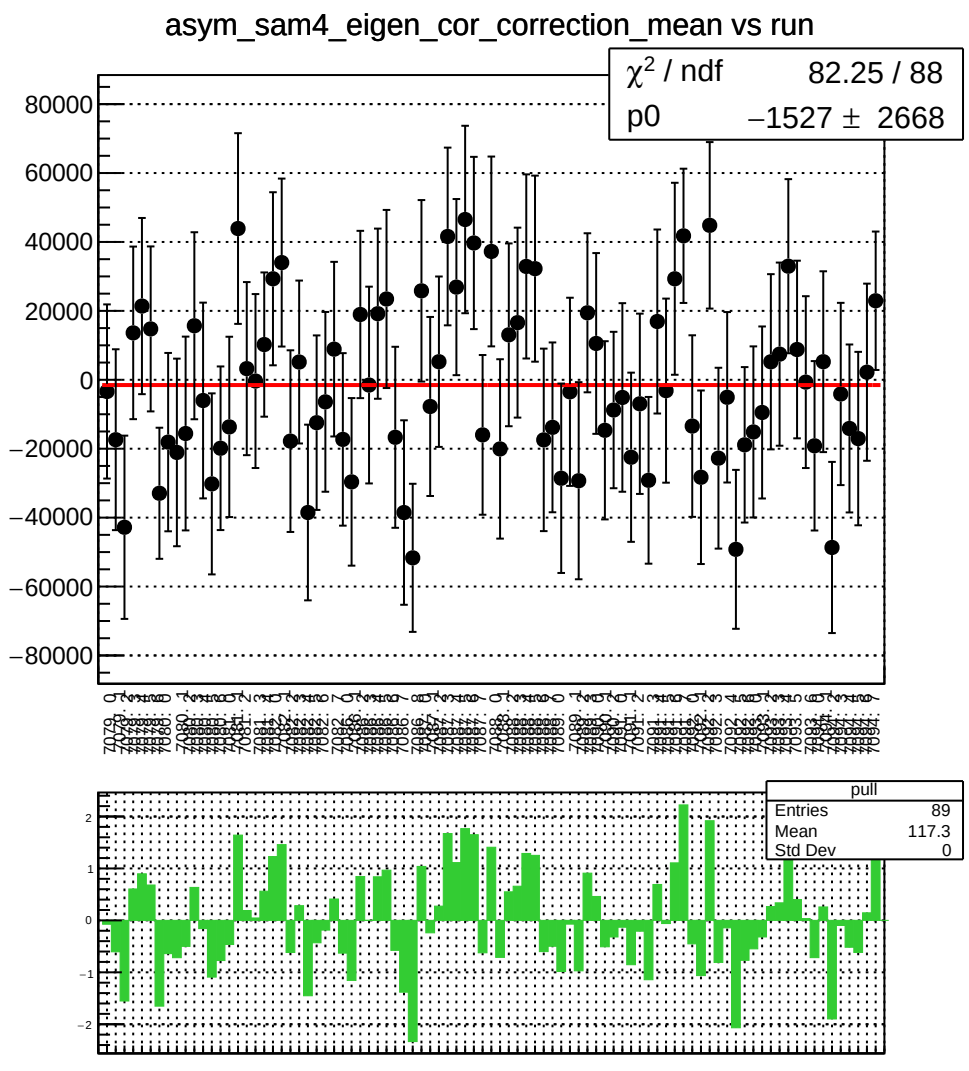

asym_sam4_cor_correction_mean vs run
χ² / ndf 82.25 / 88
p0 −1527 ± 2668
pull
Entries 89
Mean 117.3
Std Dev 0

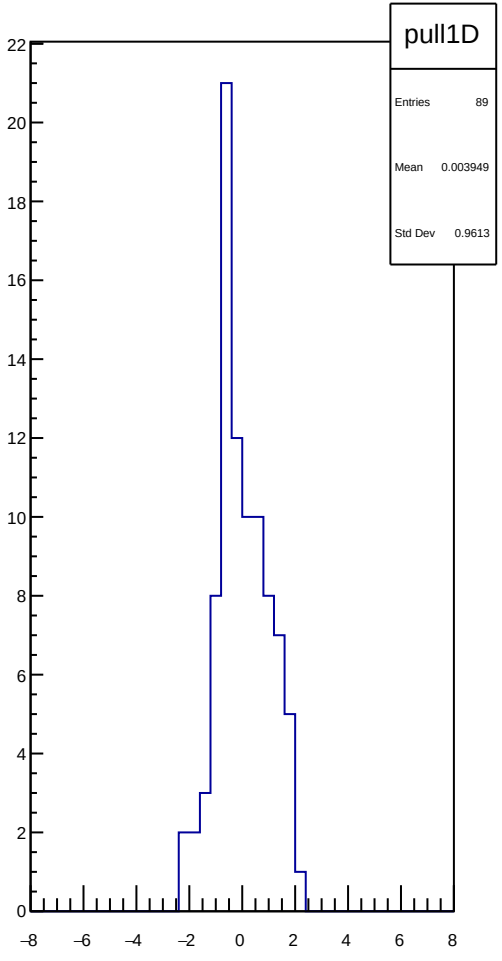

pull1D
Entries 89
Mean 0.003949
Std Dev 0.9613

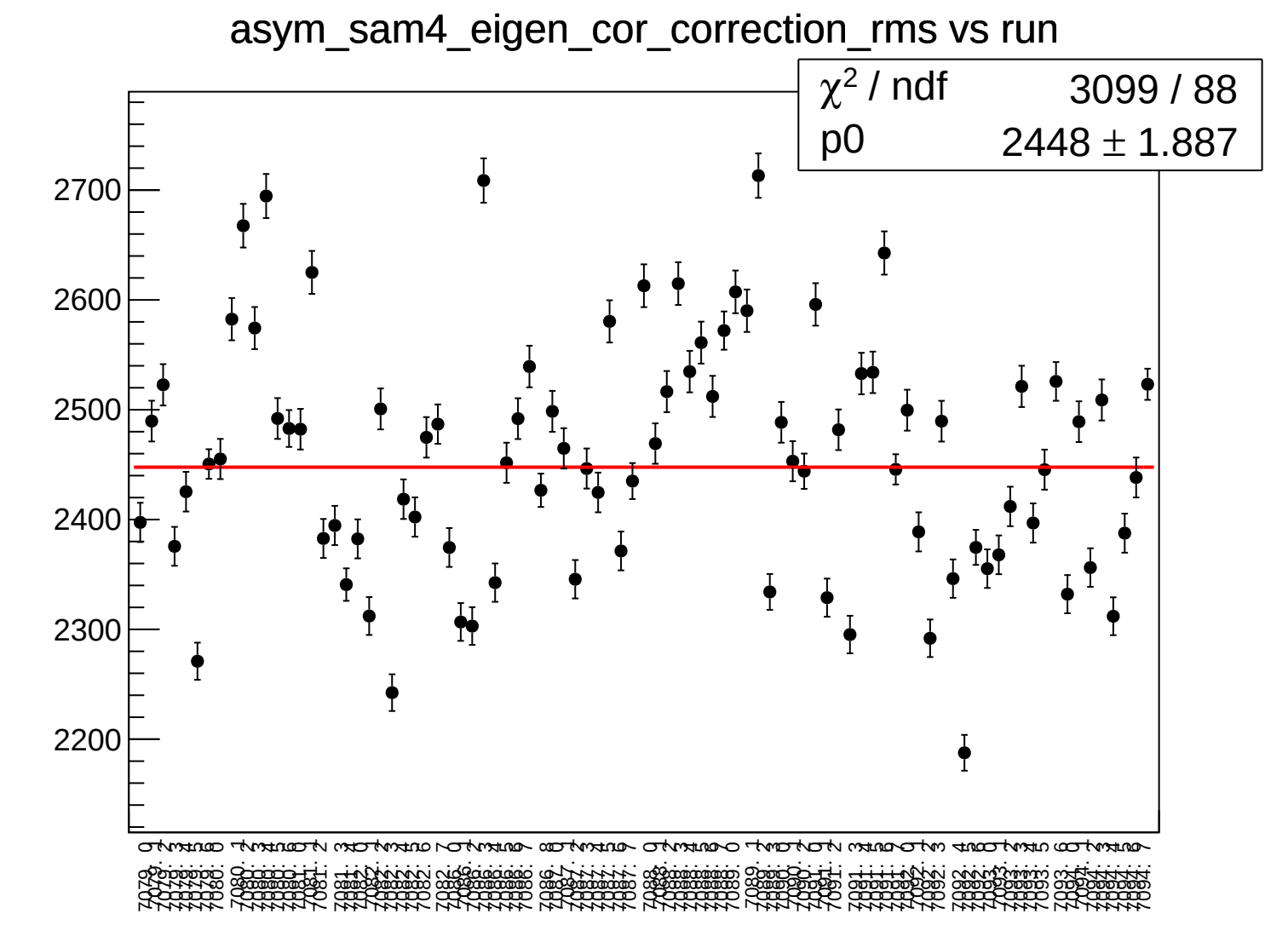

asym_sam4_cor_correction_rms vs run
χ² / ndf 3099 / 88
p0 2448 ± 1.887
2700
2600
2500
2400
2300
2200

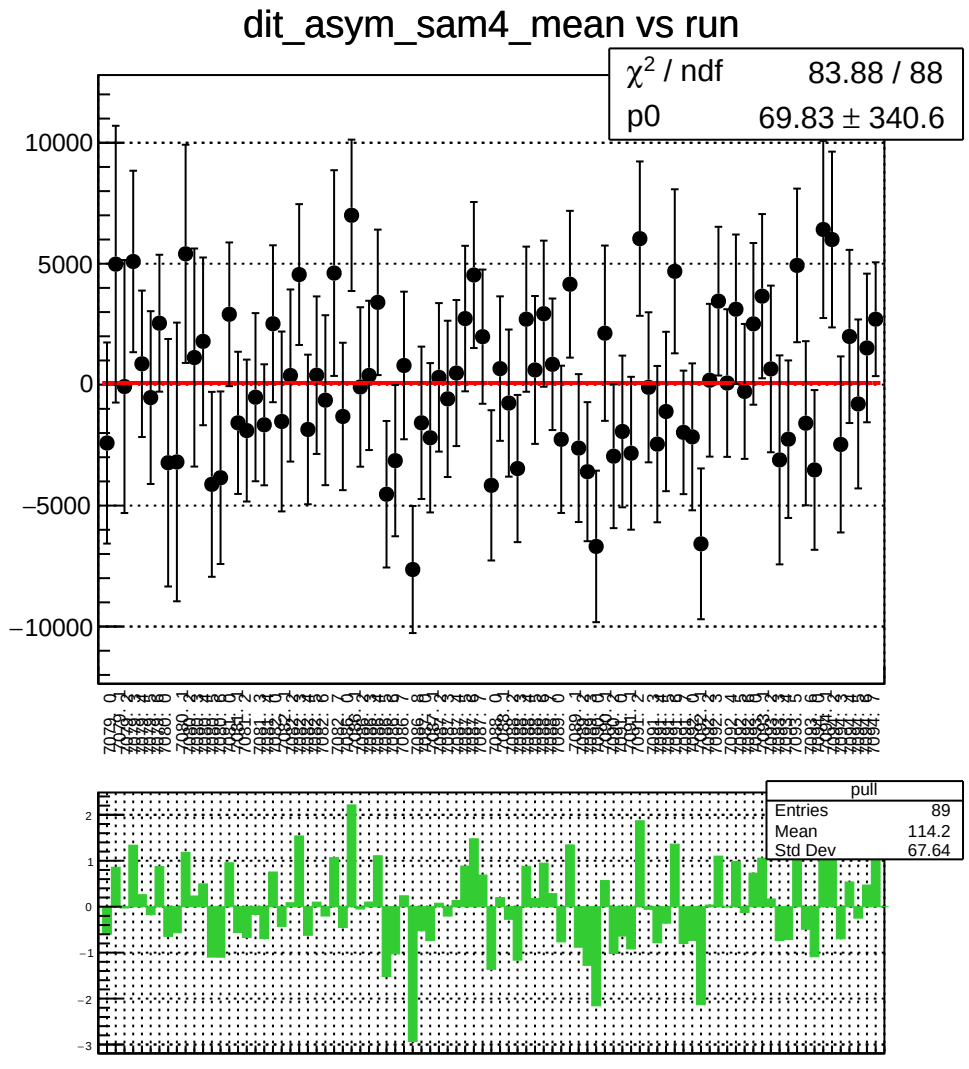

eigen_cor_asym_sam4_mean vs run
χ² / ndf 104.3 / 88
p0 8.132 ± 305.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −1631
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.002076
Std Dev 1.083
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

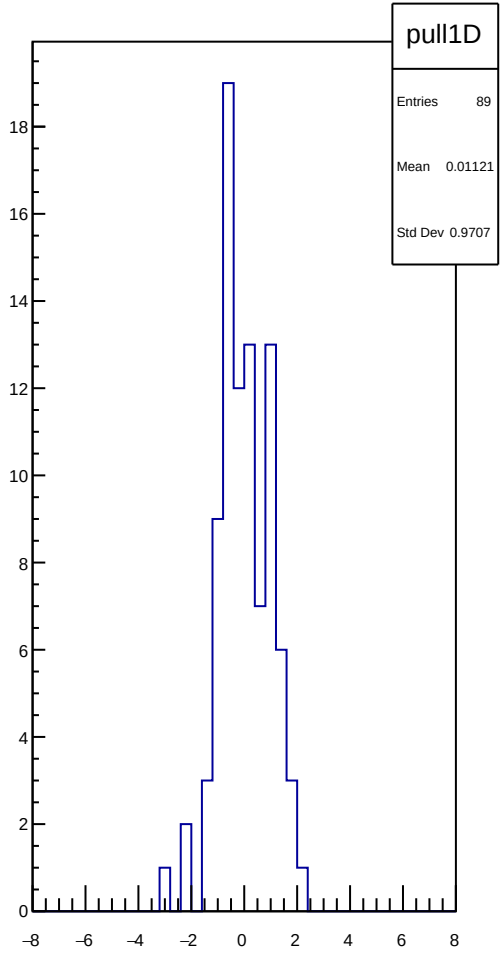

eigen_cor_asym_sam4_rms vs run
χ² / ndf 6836 / 88
p0 280.1 ± 0.2162
340
320
300
280
260

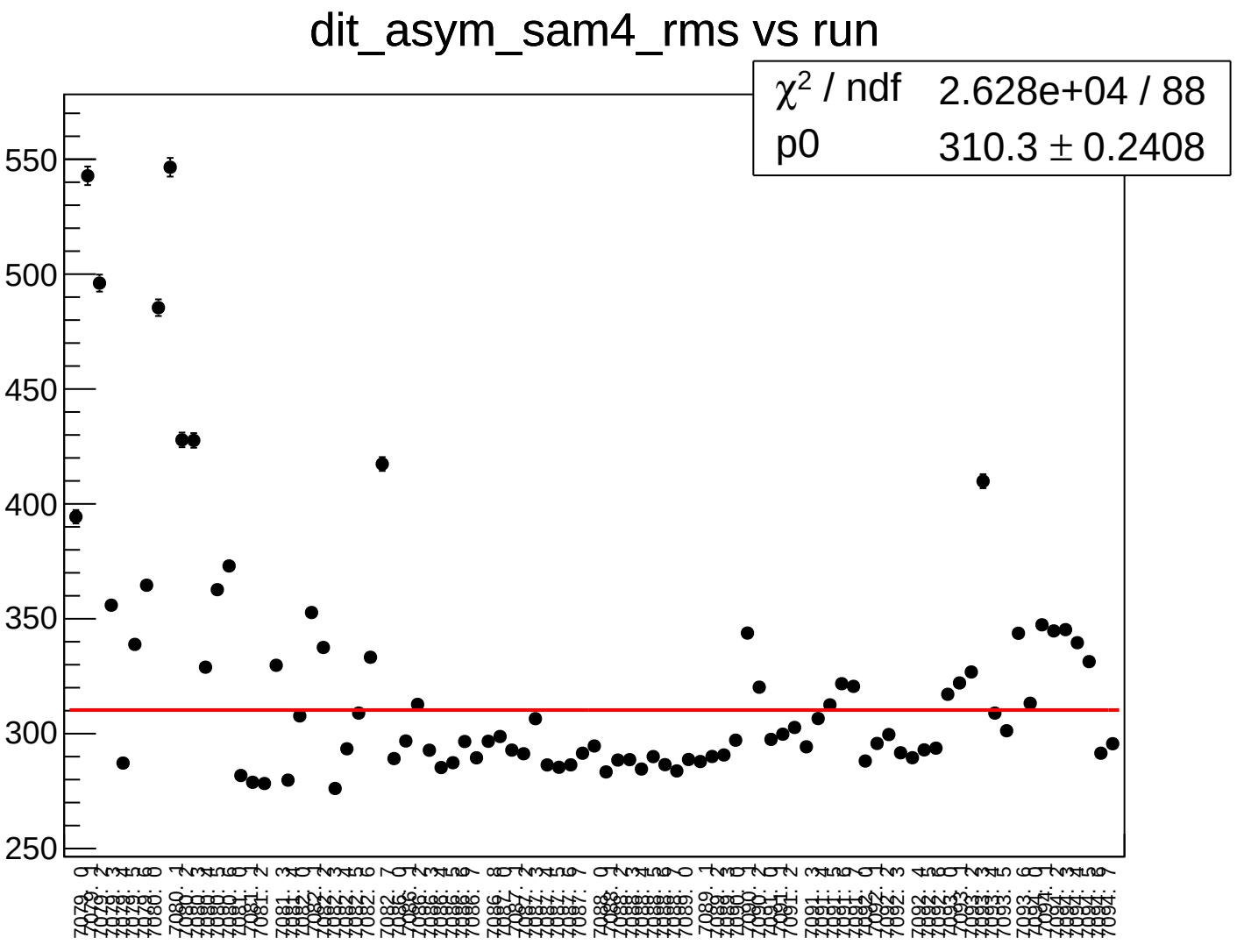

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 82.25 / 88
p0 −1527 ± 2668
pull
Entries 89
Mean 117.3
Std Dev 0

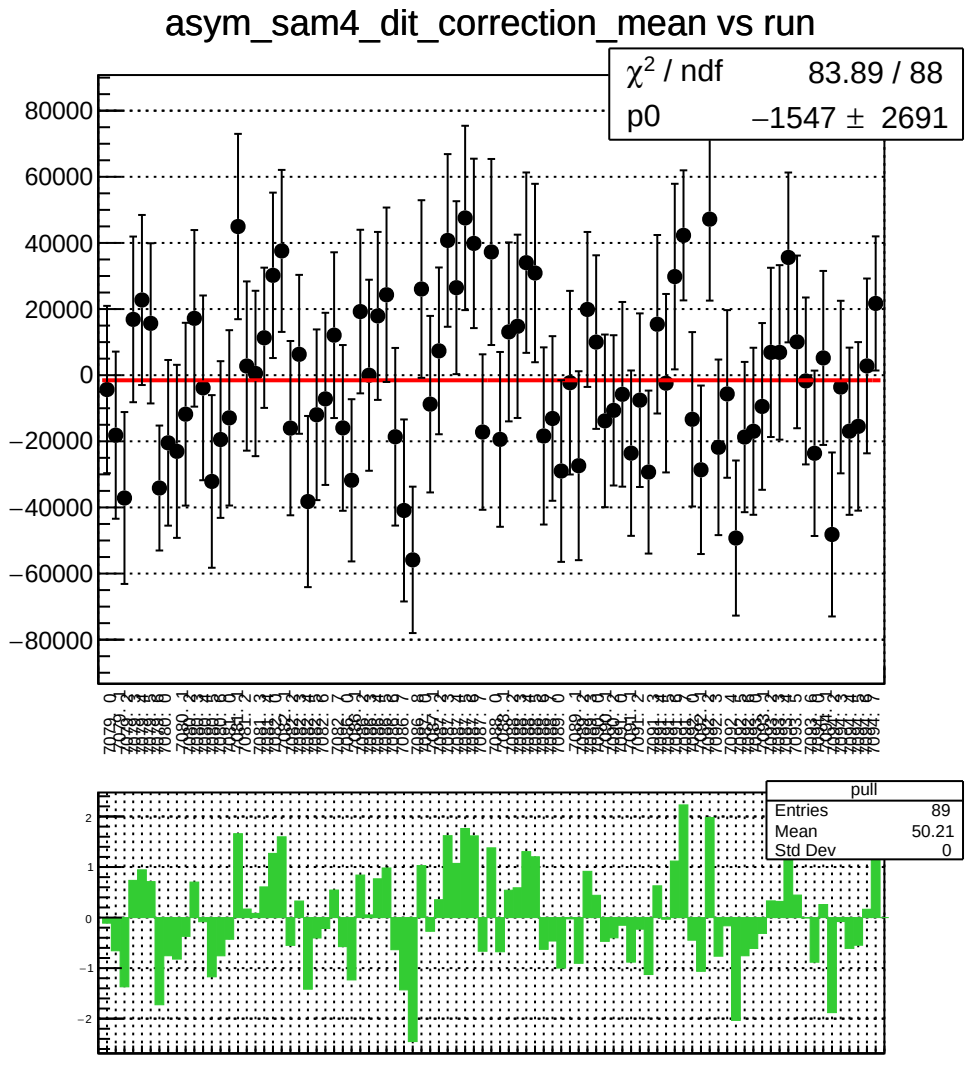

pull1D
Entries 89
Mean 0.003949
Std Dev 0.9613

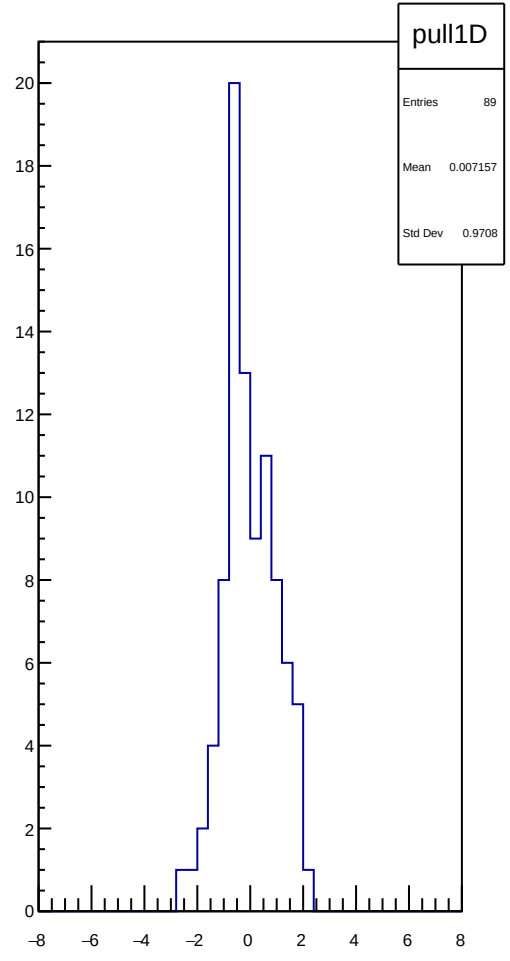

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 3099 / 88
p0 2448 ± 1.887
2700
2600
2500
2400
2300
2200

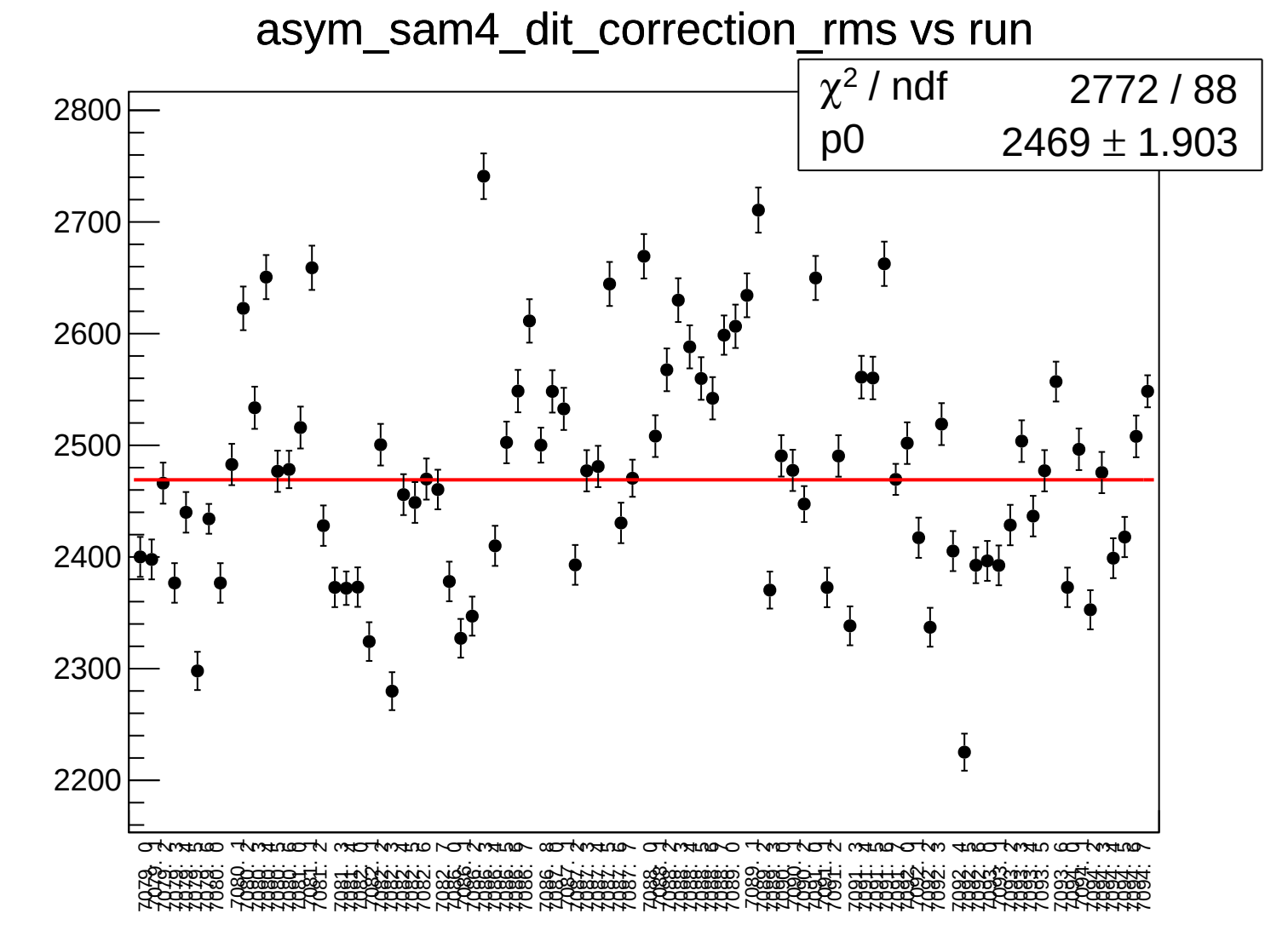

dit_asym_sam4_mean vs run
χ^2 / ndf 83.88 / 88
p0 69.83 ± 340.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 114.2
Std Dev 67.64
2
1
0
−1
−2
−3

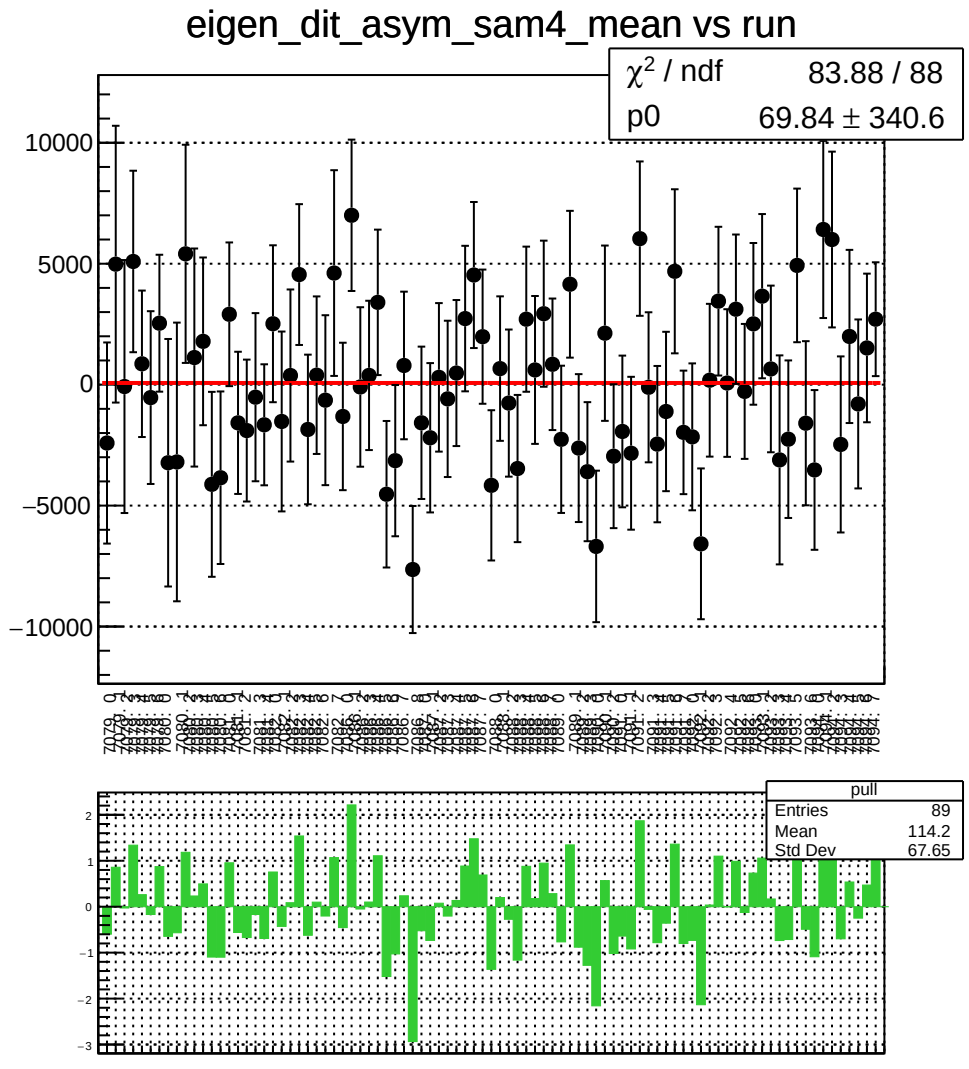

pull1D
Entries 89
Mean 0.01121
Std Dev 0.9707
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

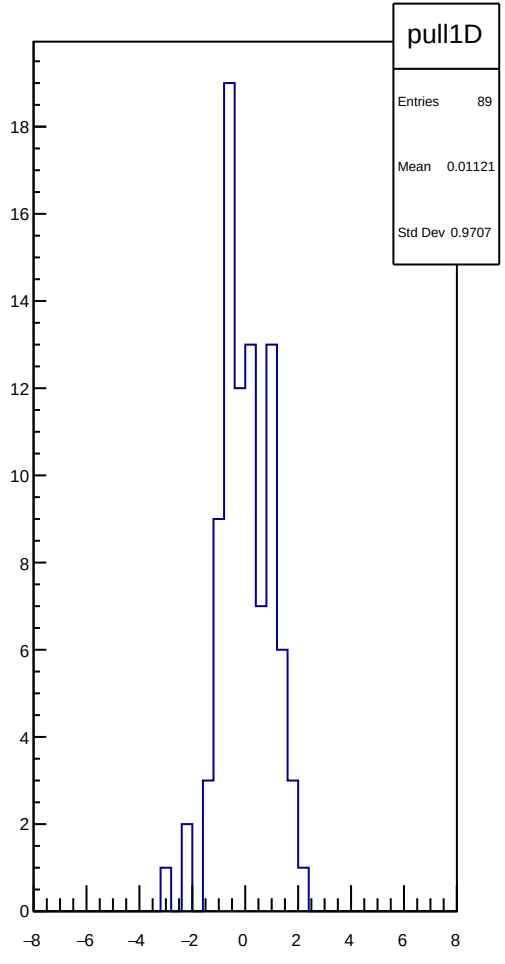

dit_asym_sam4_rms vs run
χ² / ndf 2.628e+04 / 88
p0 310.3 ± 0.2408
550
500
450
400
350
300
250

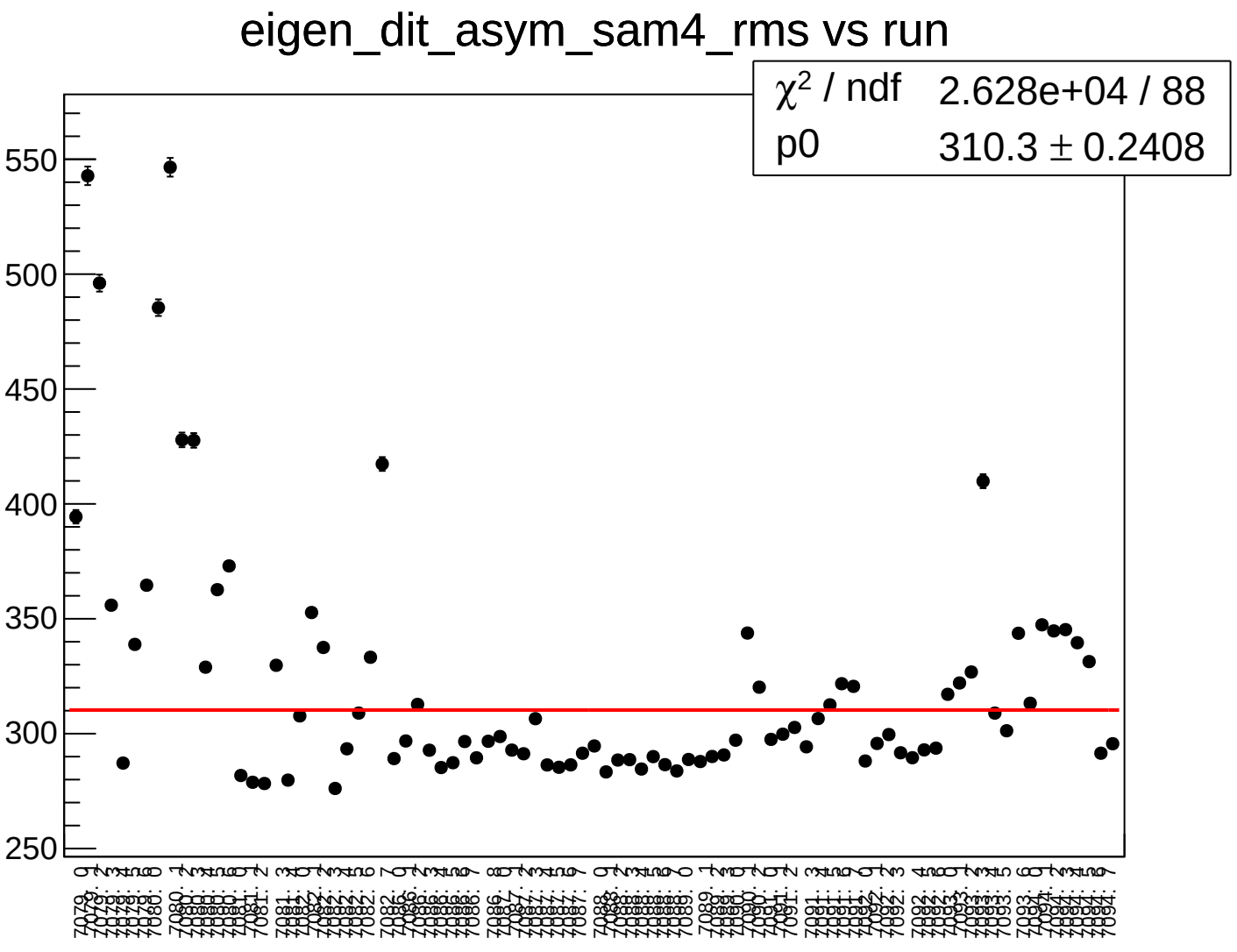

asym_sam4_dit_correction_mean vs run
χ² / ndf 83.89 / 88
p0 −1547 ± 2691
pull
Entries 89
Mean 50.21
Std Dev 0

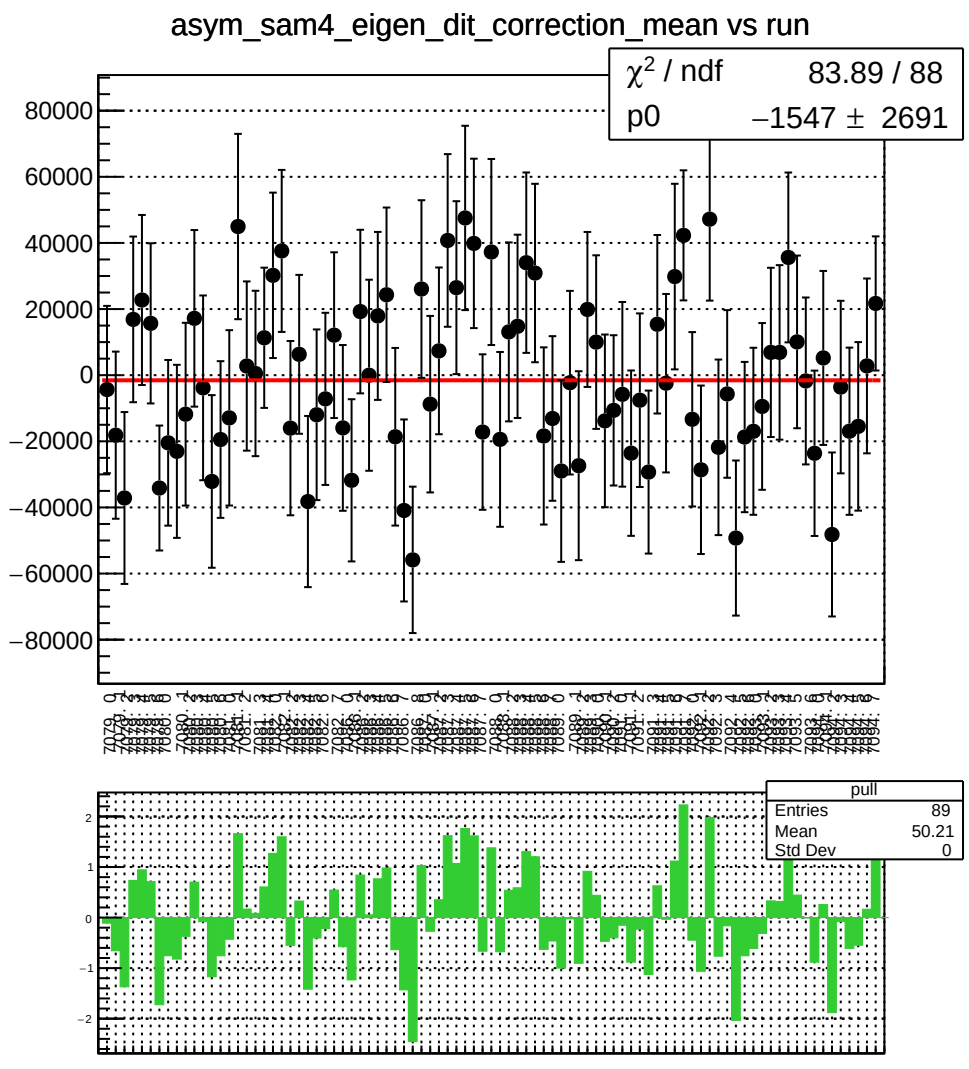

pull1D
Entries 89
Mean 0.007157
Std Dev 0.9708

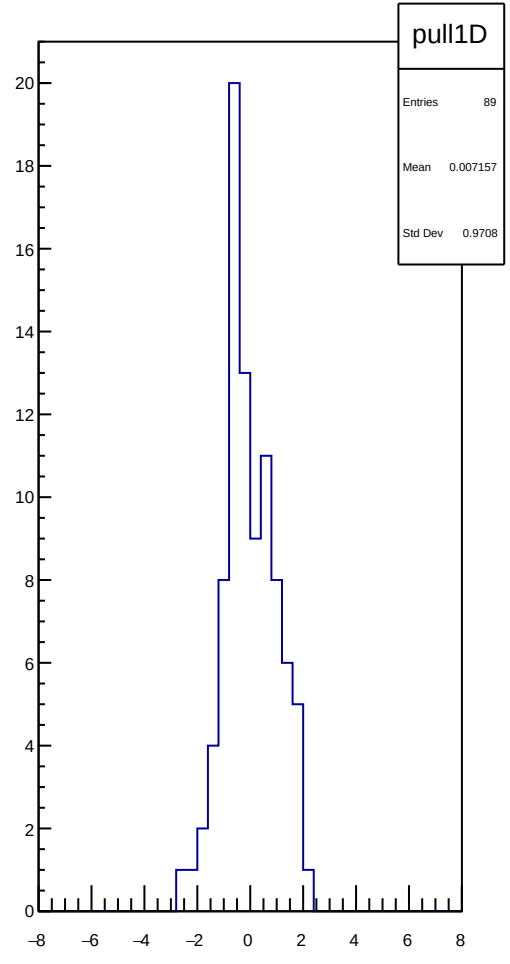

asym_sam4_dit_correction_rms vs run
χ² / ndf 2772 / 88
p0 2469 ± 1.903
2800
2700
2600
2500
2400
2300
2200

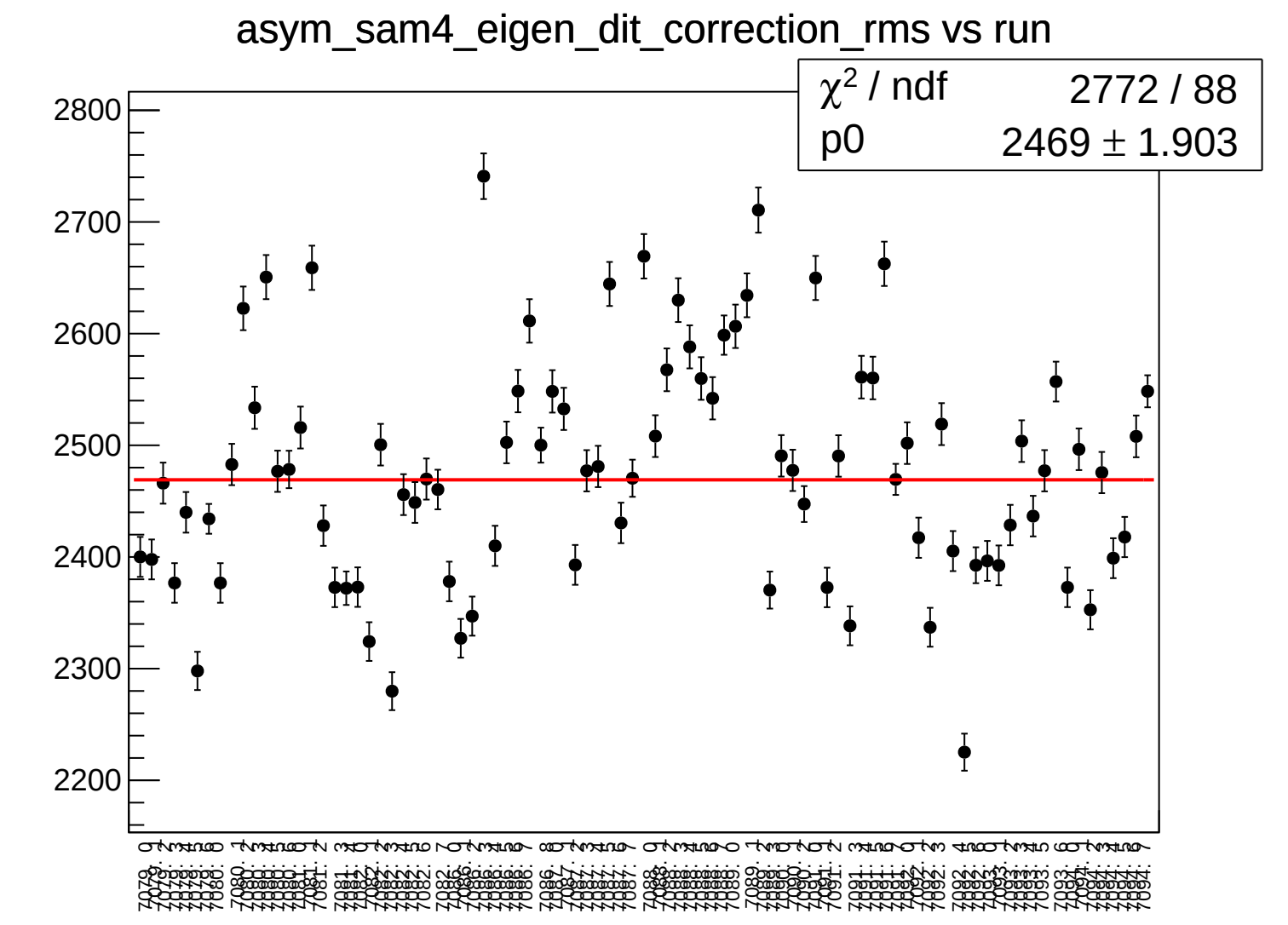

eigen_dit_asym_sam4_mean vs run
χ^2 / ndf 83.88 / 88
p0 69.84 ± 340.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 114.2
Std Dev 67.65
2
1
0
−1
−2
−3

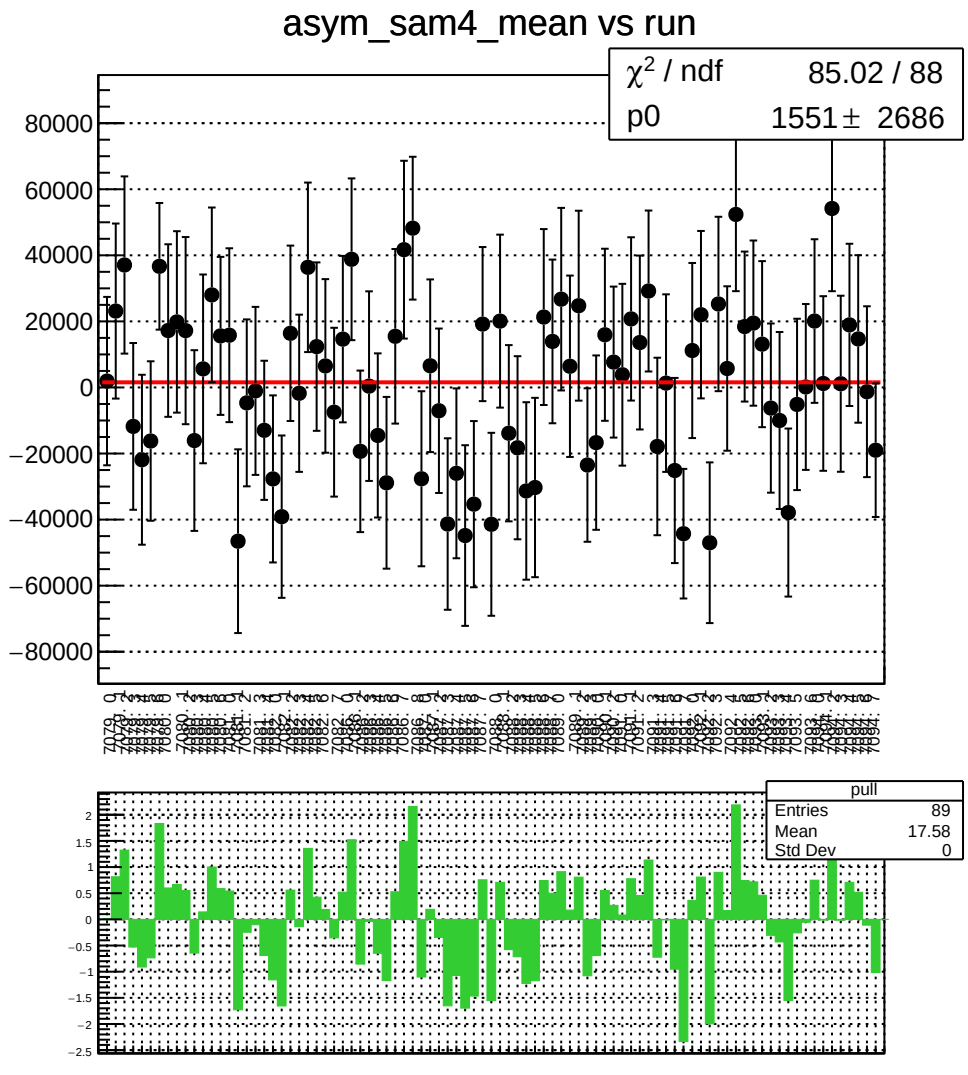

pull1D
Entries 89
Mean 0.01121
Std Dev 0.9707
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

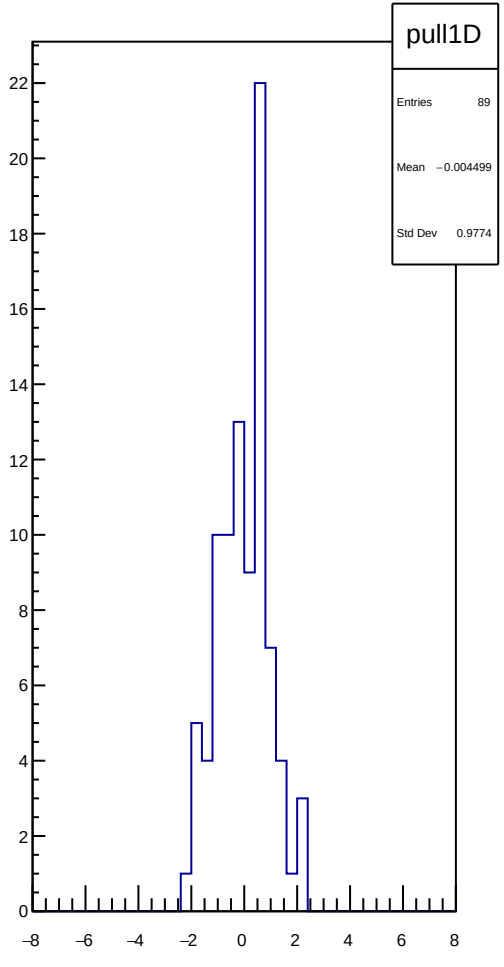

eigen_dit_asym_sam4_rms vs run
χ² / ndf 2.628e+04 / 88
p0 310.3 ± 0.2408
550
500
450
400
350
300
250

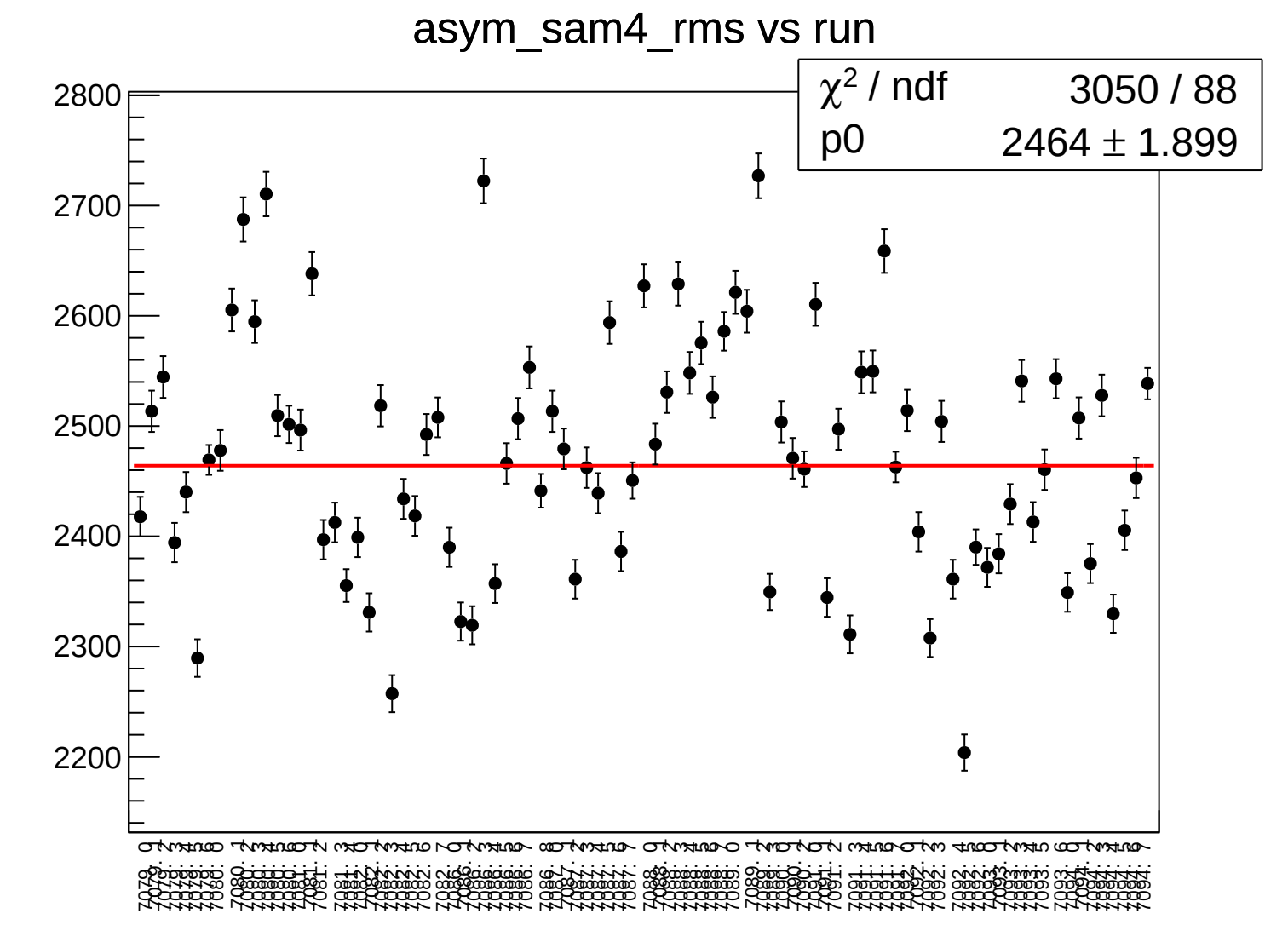

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 83.89 / 88
p0 −1547 ± 2691
pull
Entries 89
Mean 50.21
Std Dev 0

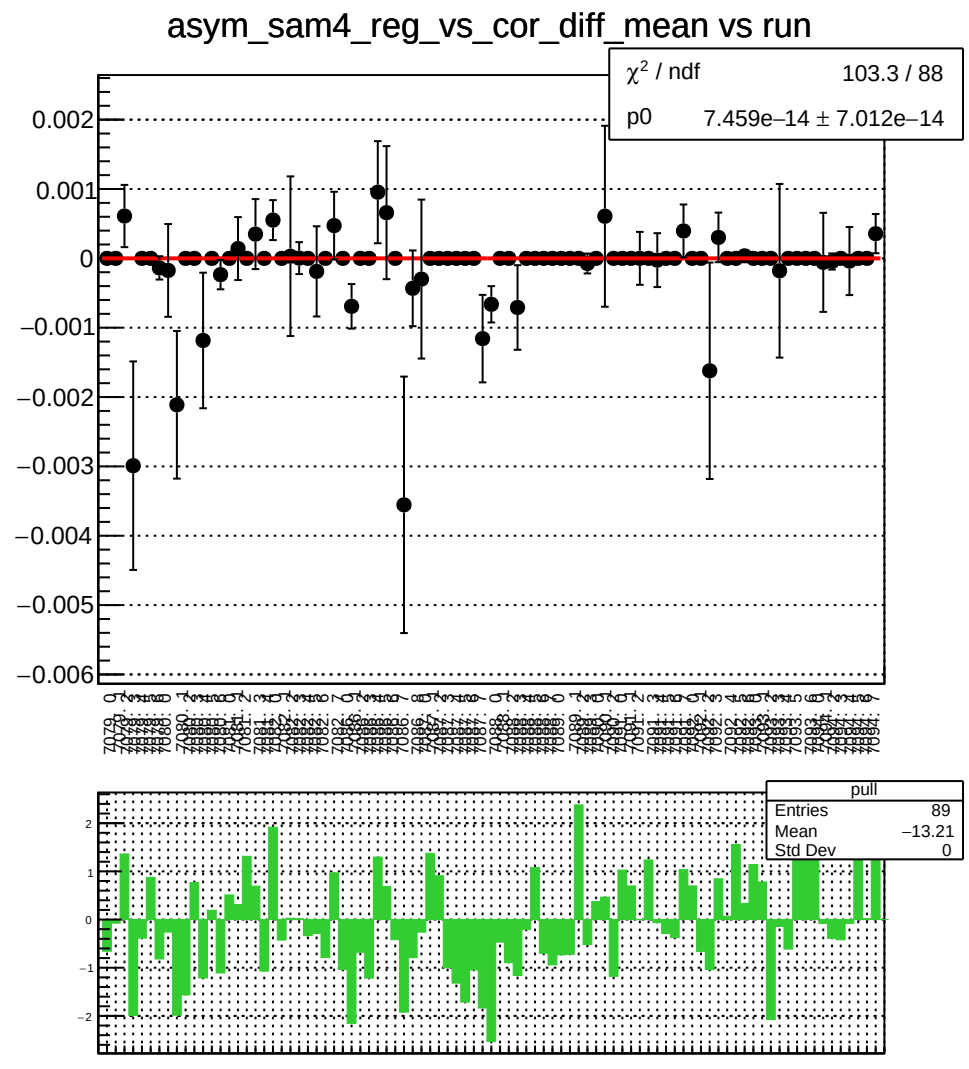

pull1D
Entries 89
Mean 0.007157
Std Dev 0.9708

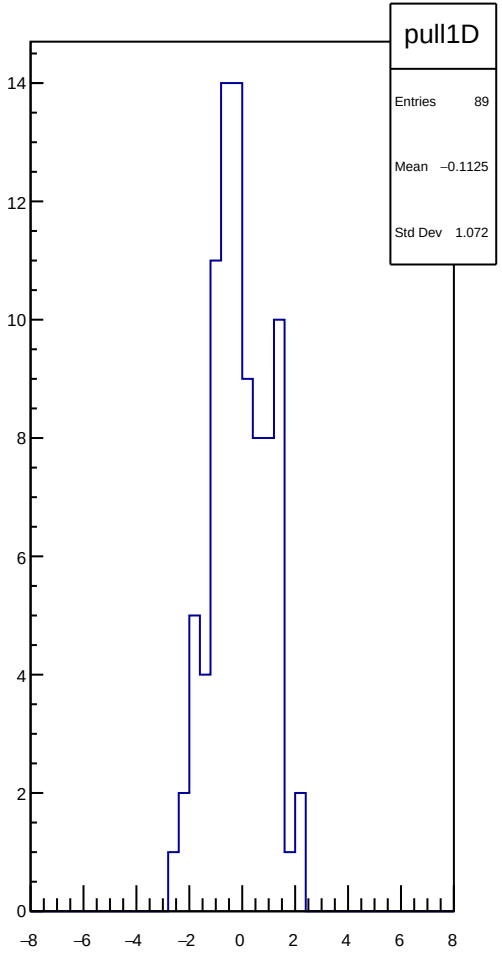

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2772 / 88
p0 2469 ± 1.903
2800
2700
2600
2500
2400
2300
2200

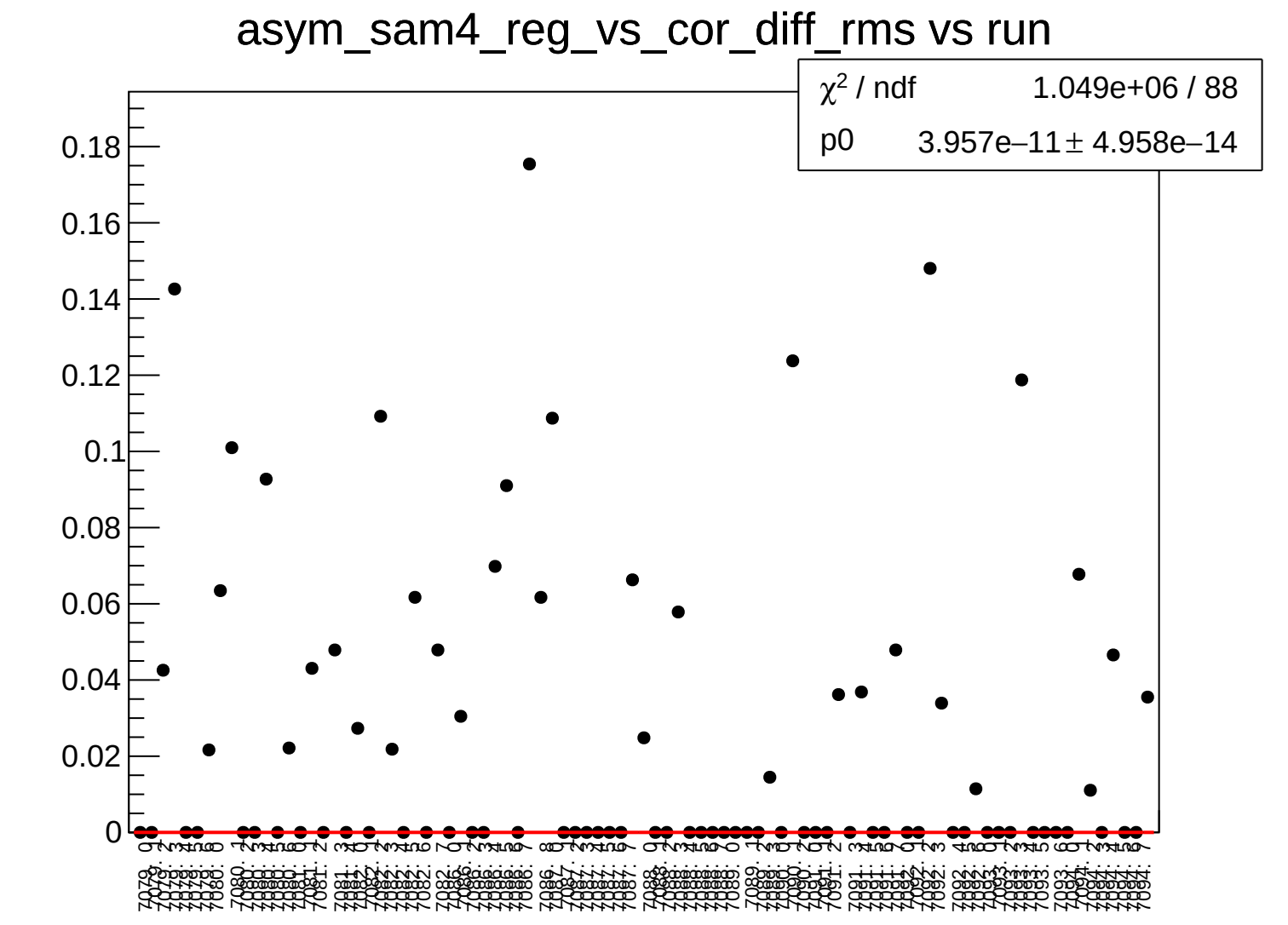

asym_sam4_mean vs run
χ² / ndf 85.02 / 88
p0 1551 ± 2686
pull
Entries 89
Mean 17.58
Std Dev 0

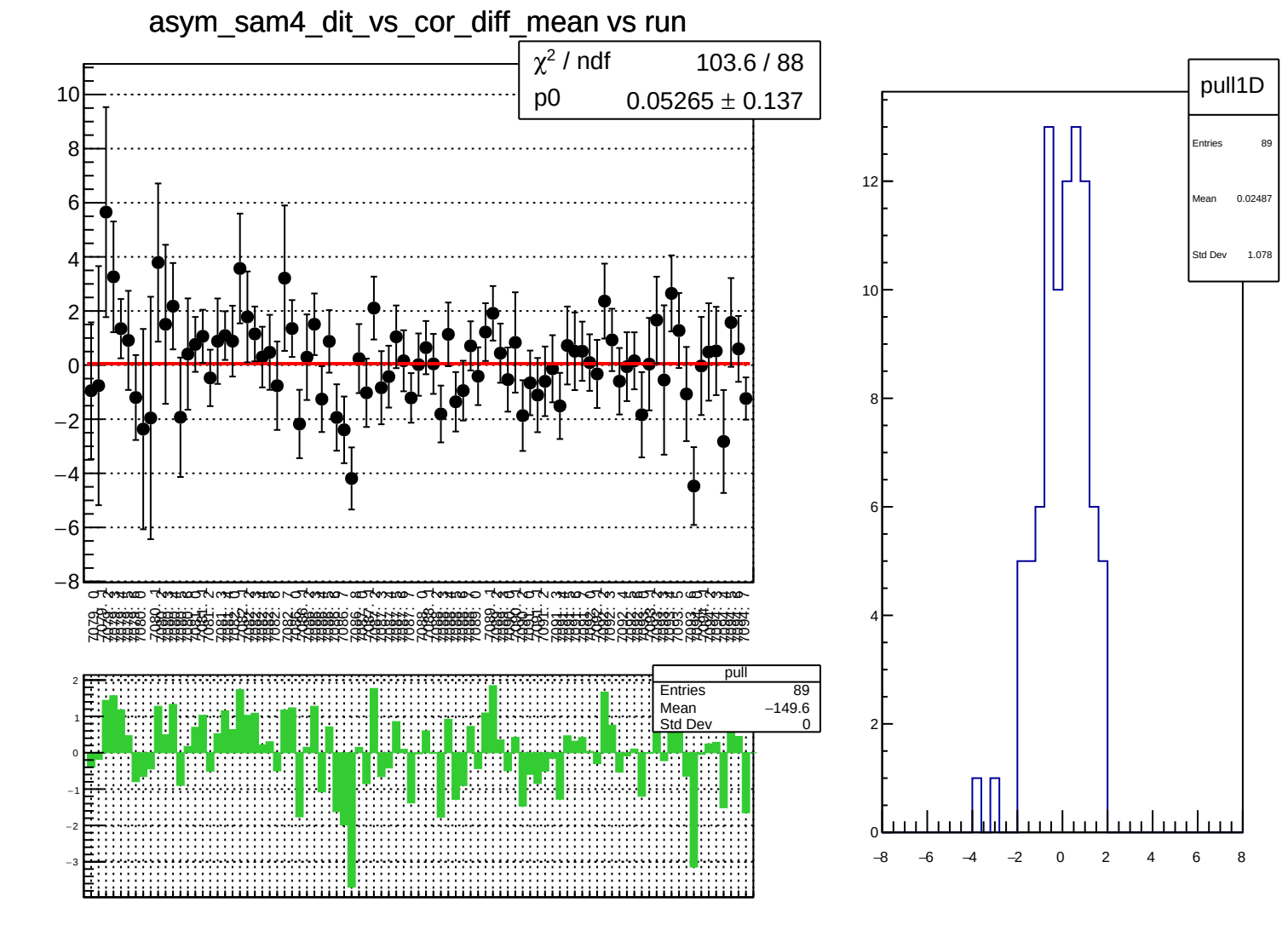

pull1D
Entries 89
Mean −0.004499
Std Dev 0.9774

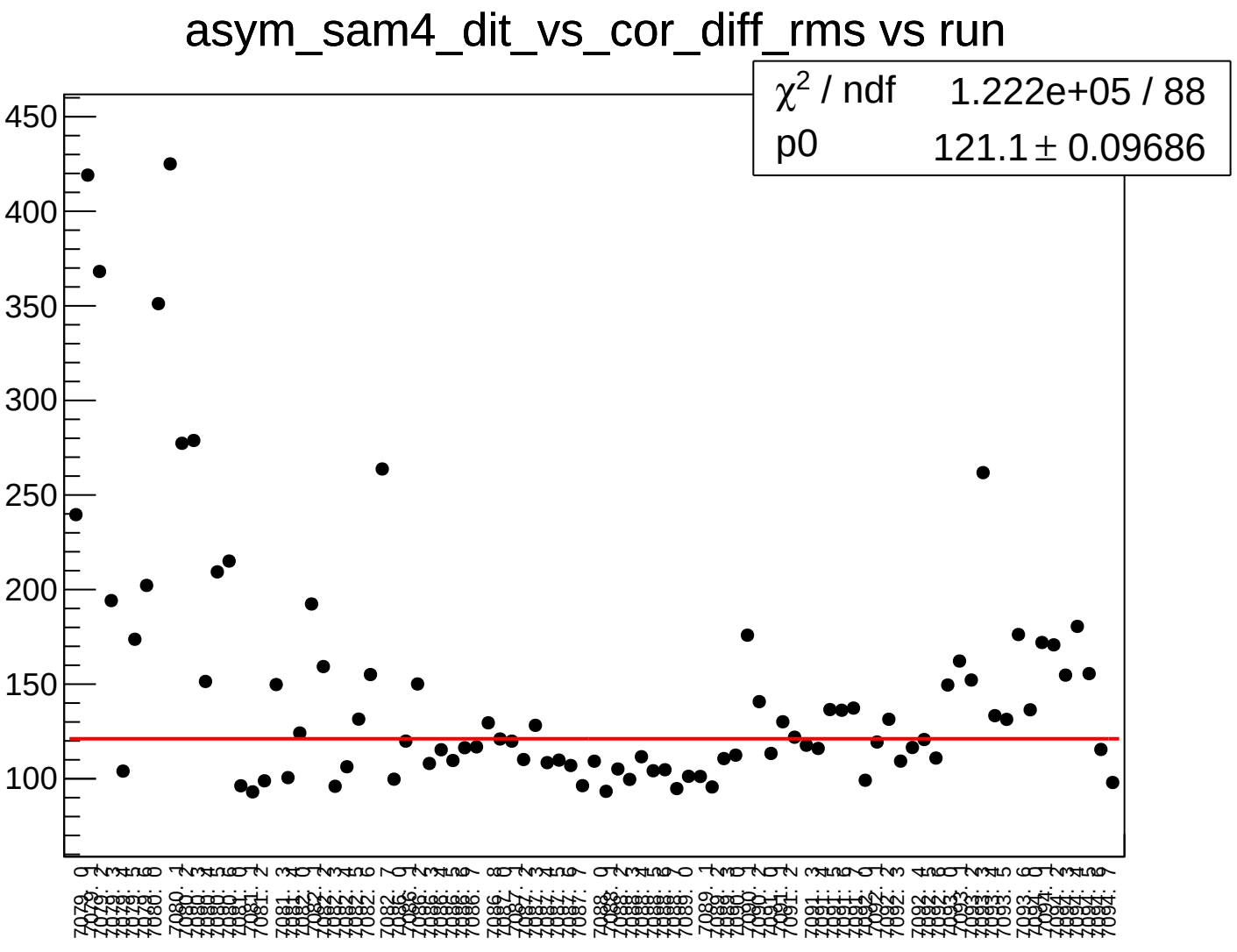

asym_sam4_rms vs run
χ² / ndf 3050 / 88
p0 2464 ± 1.899
2800
2700
2600
2500
2400
2300
2200

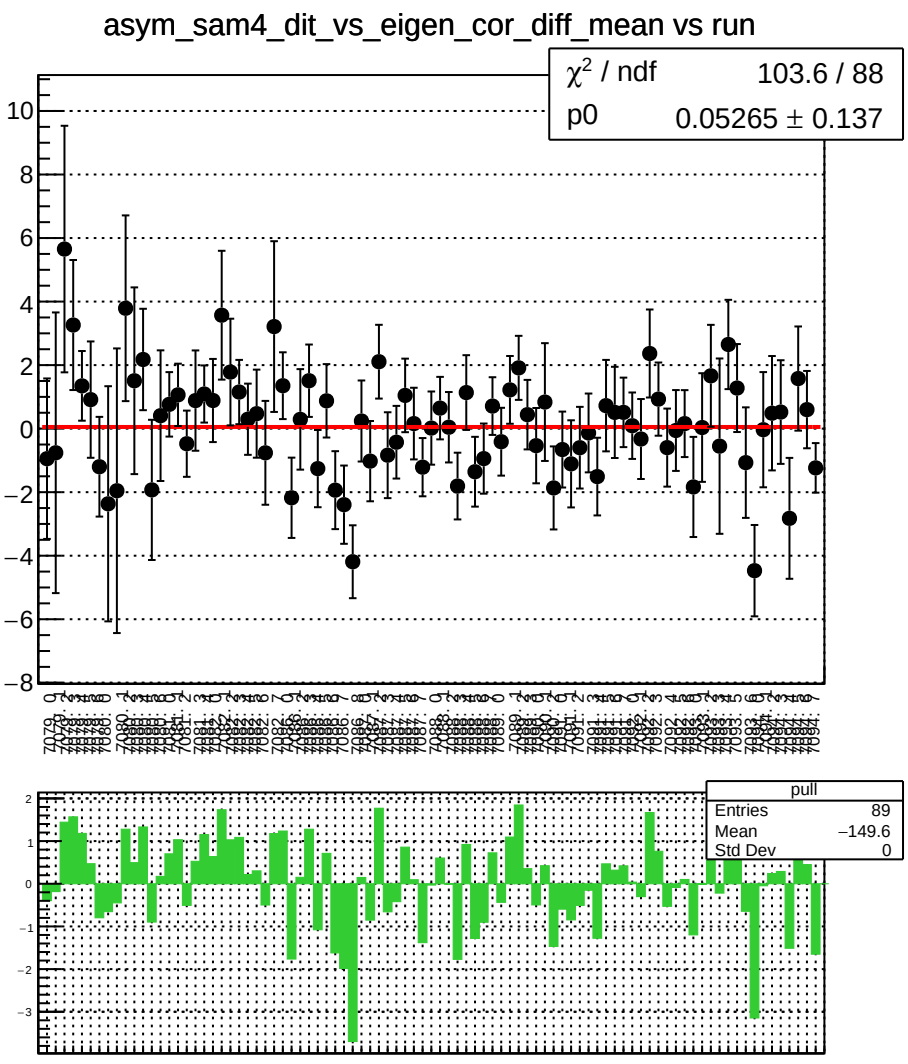

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 88
p0 7.459e−14 ± 7.012e−14
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
−0.006
pull
Entries 89
Mean −13.21
Std Dev 0
2
1
0
−1
−2

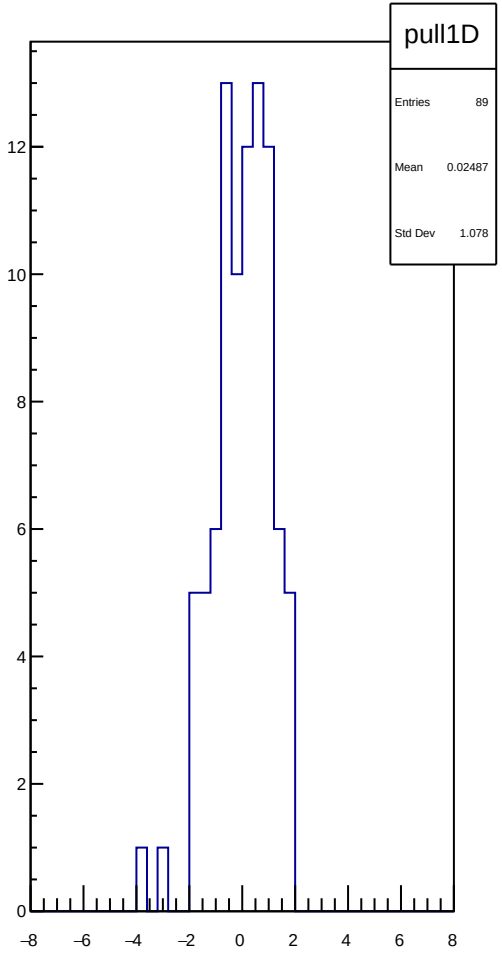

pull1D
Entries 89
Mean −0.1125
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

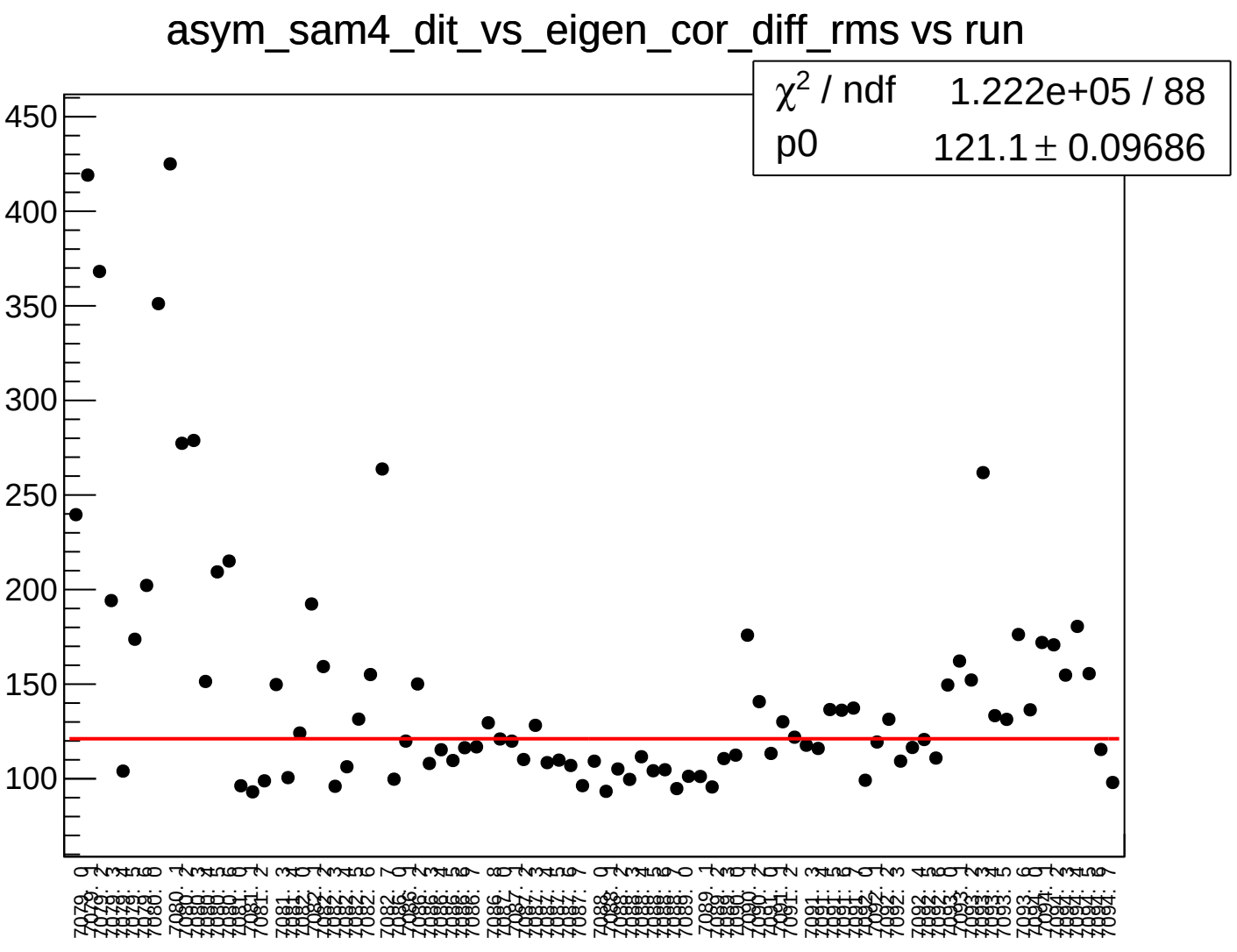

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.049e+06 / 88
p0 3.957e−11 ± 4.958e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

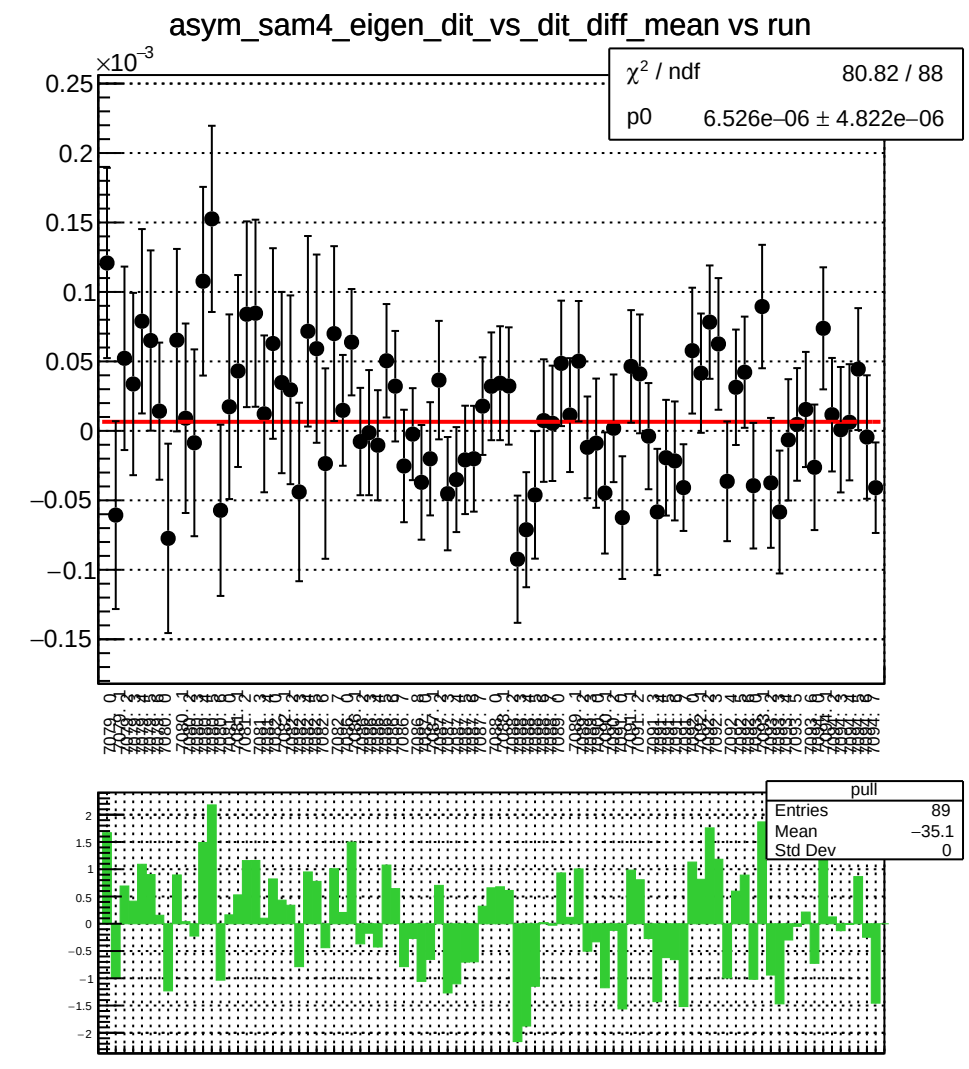

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 88
p0 0.05265 ± 0.137
pull
Entries 89
Mean −149.6
Std Dev 0
pull1D
Entries 89
Mean 0.02487
Std Dev 1.078

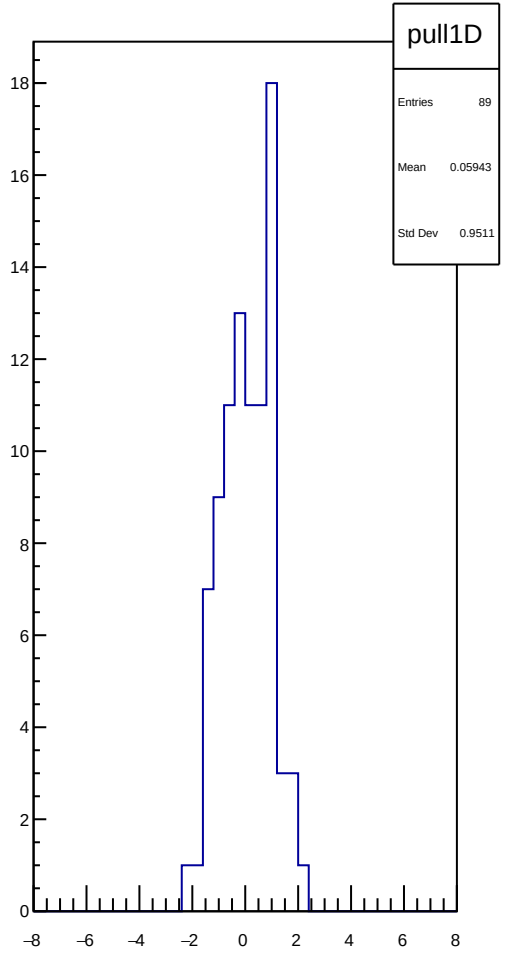

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.222e+05 / 88
p0 121.1 ± 0.09686
450
400
350
300
250
200
150
100

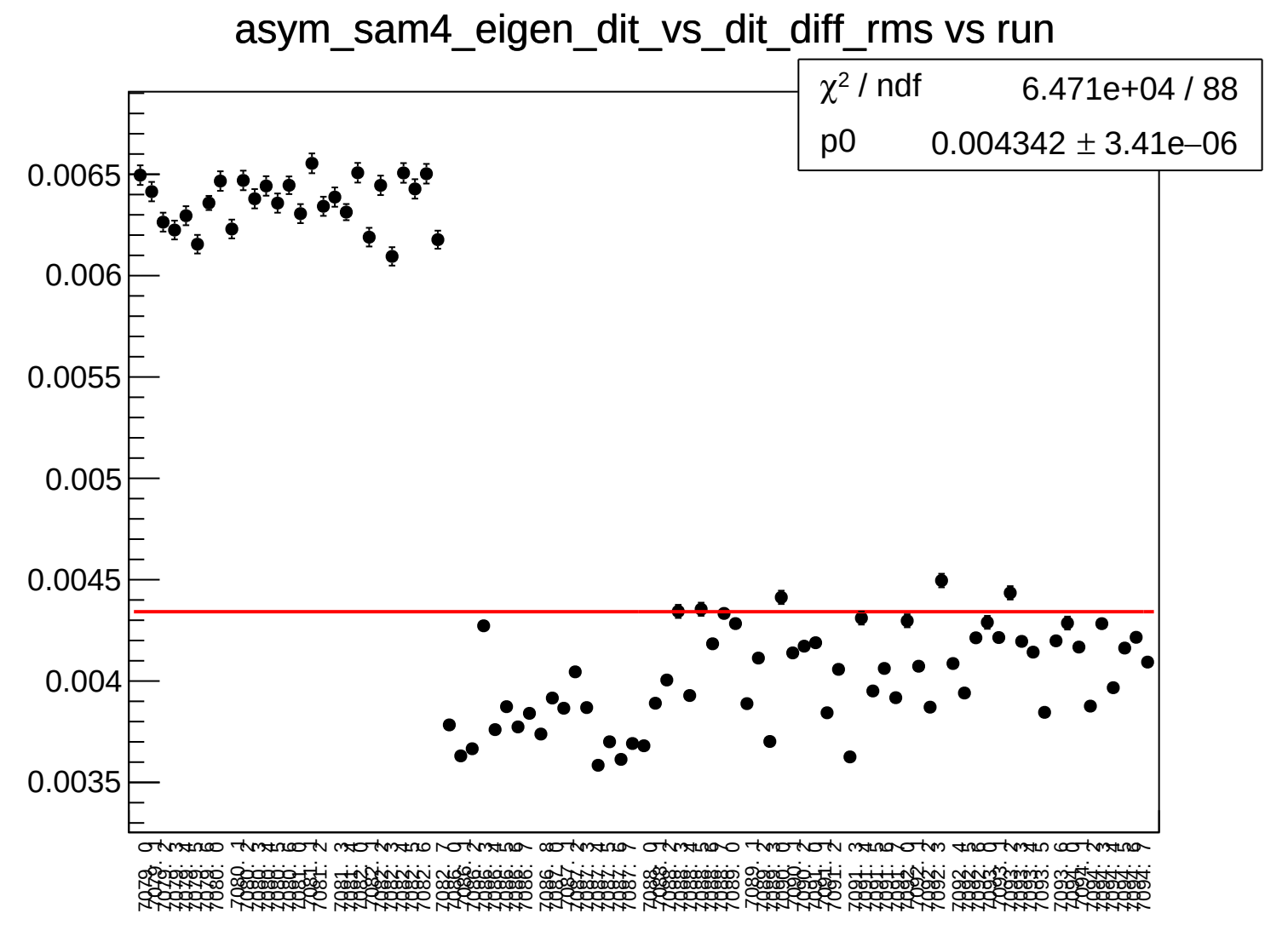

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 88
p0 0.05265 ± 0.137
pull
Entries 89
Mean −149.6
Std Dev 0

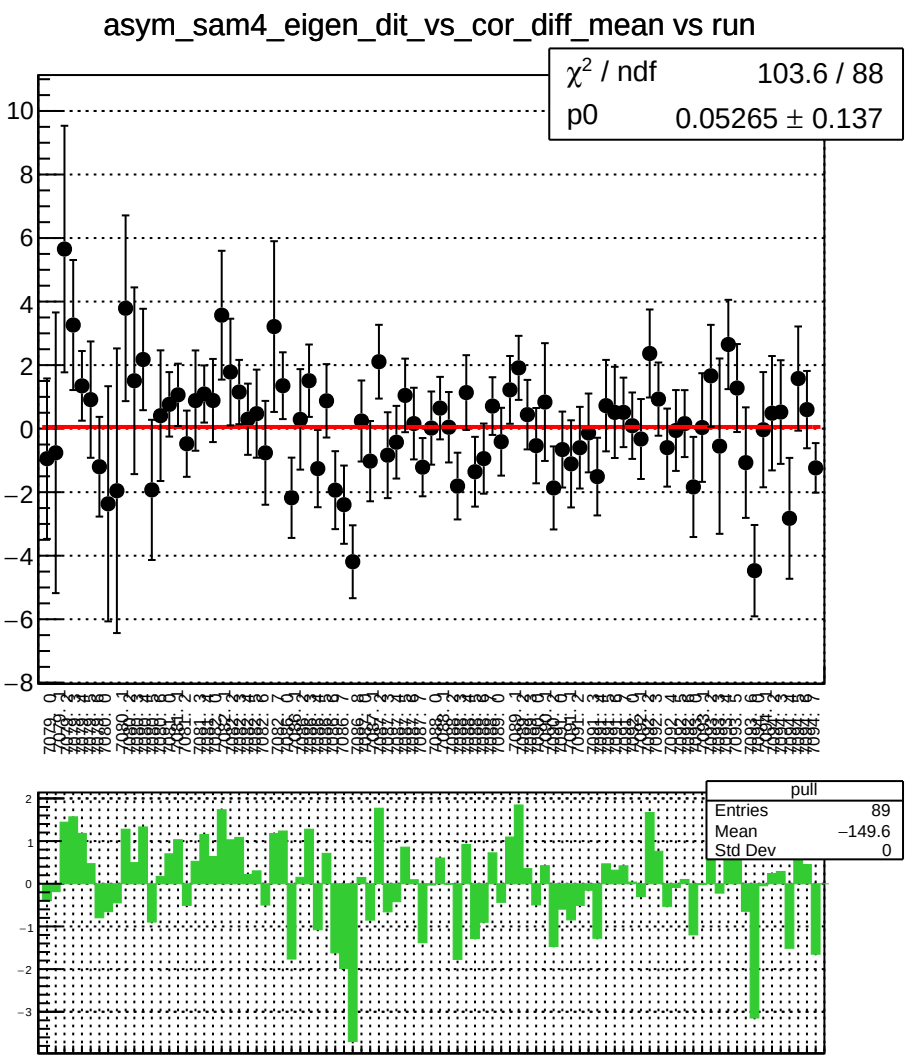

pull1D
Entries 89
Mean 0.02487
Std Dev 1.078

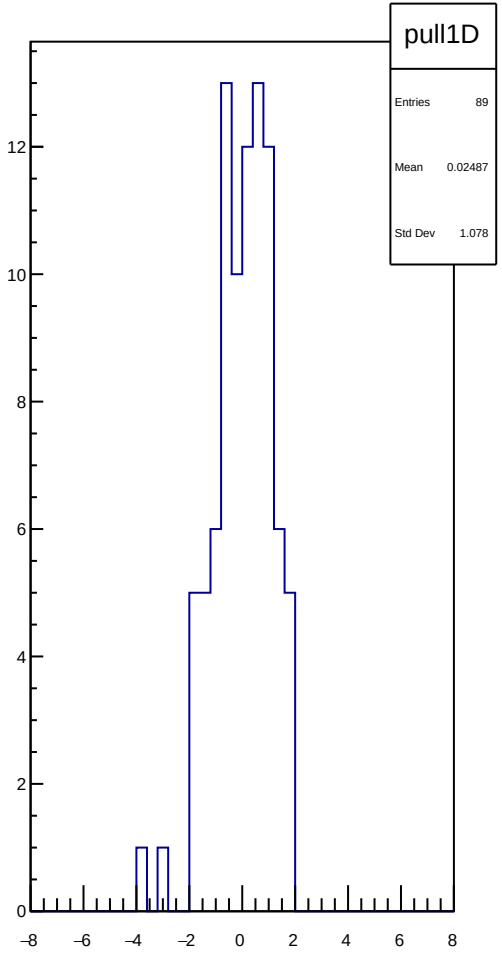

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.222e+05 / 88
p0 121.1 ± 0.09686
450
400
350
300
250
200
150
100

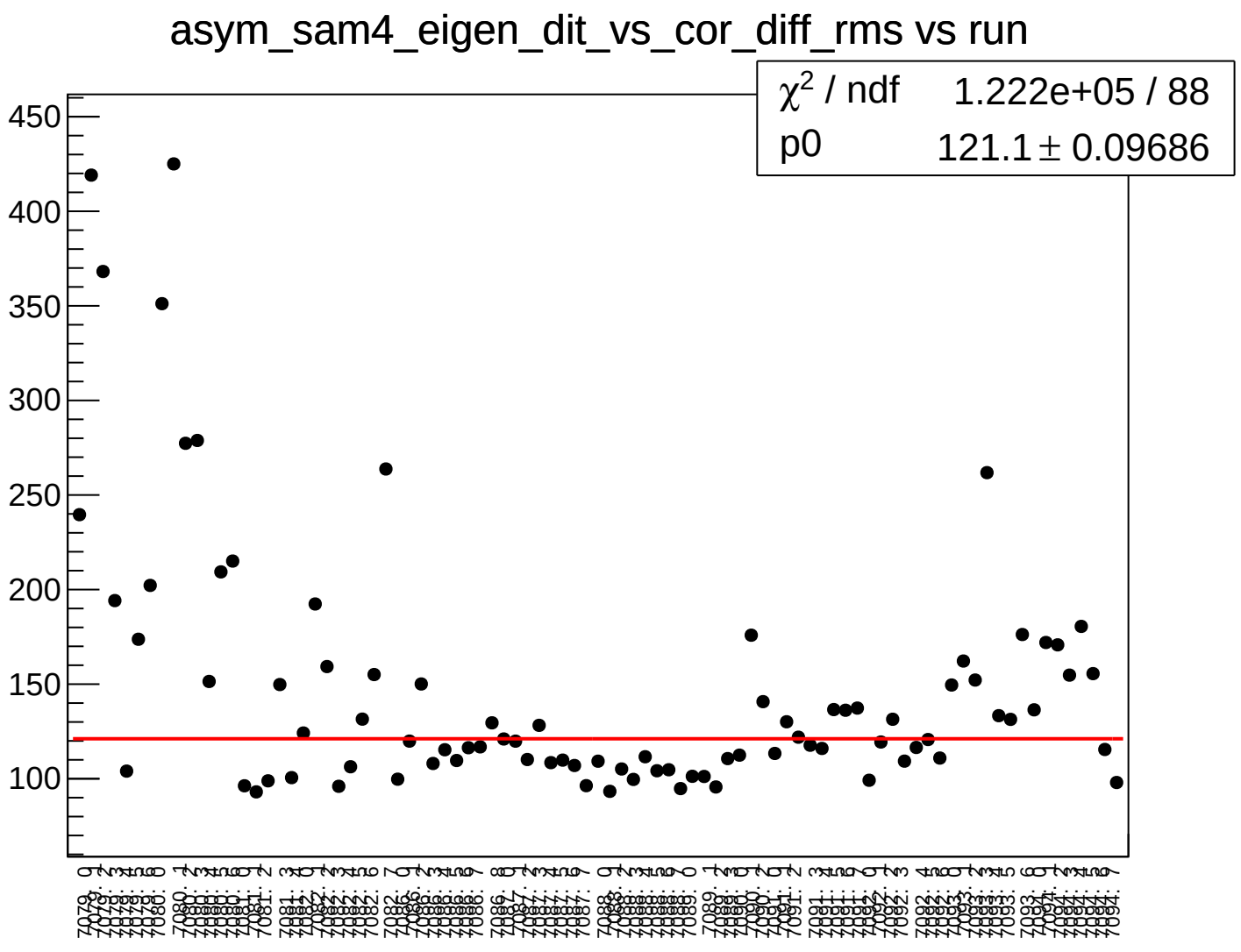

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.82 / 88
p0 6.526e−06 ± 4.822e−06
pull
Entries 89
Mean −35.1
Std Dev 0

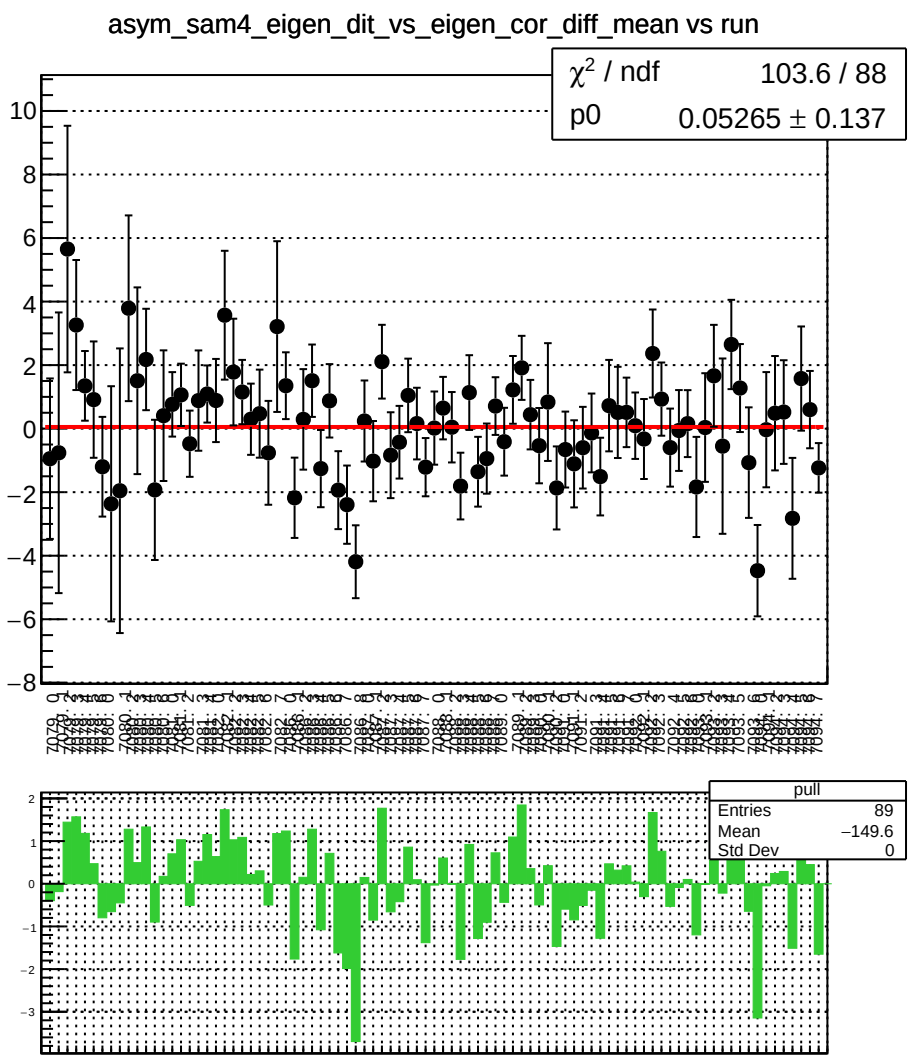

pull1D
Entries 89
Mean 0.05943
Std Dev 0.9511

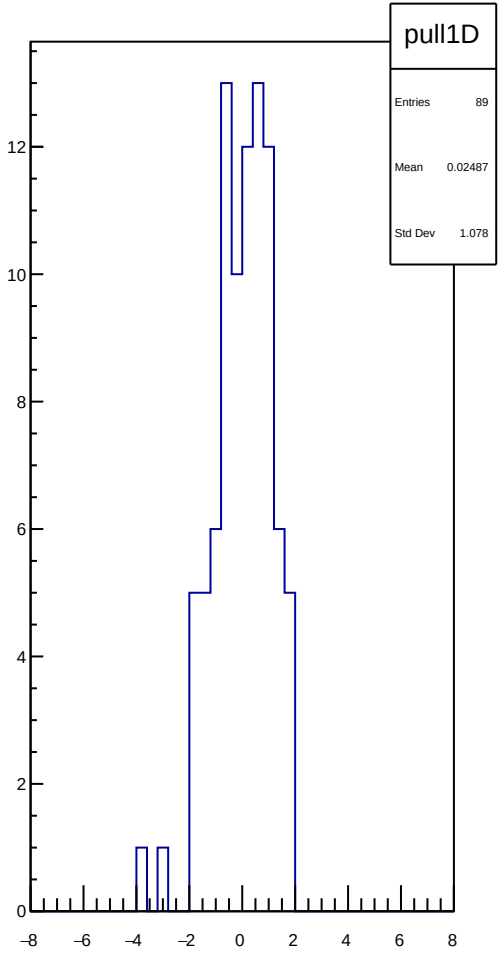

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.471e+04 / 88
p0 0.004342 ± 3.41e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

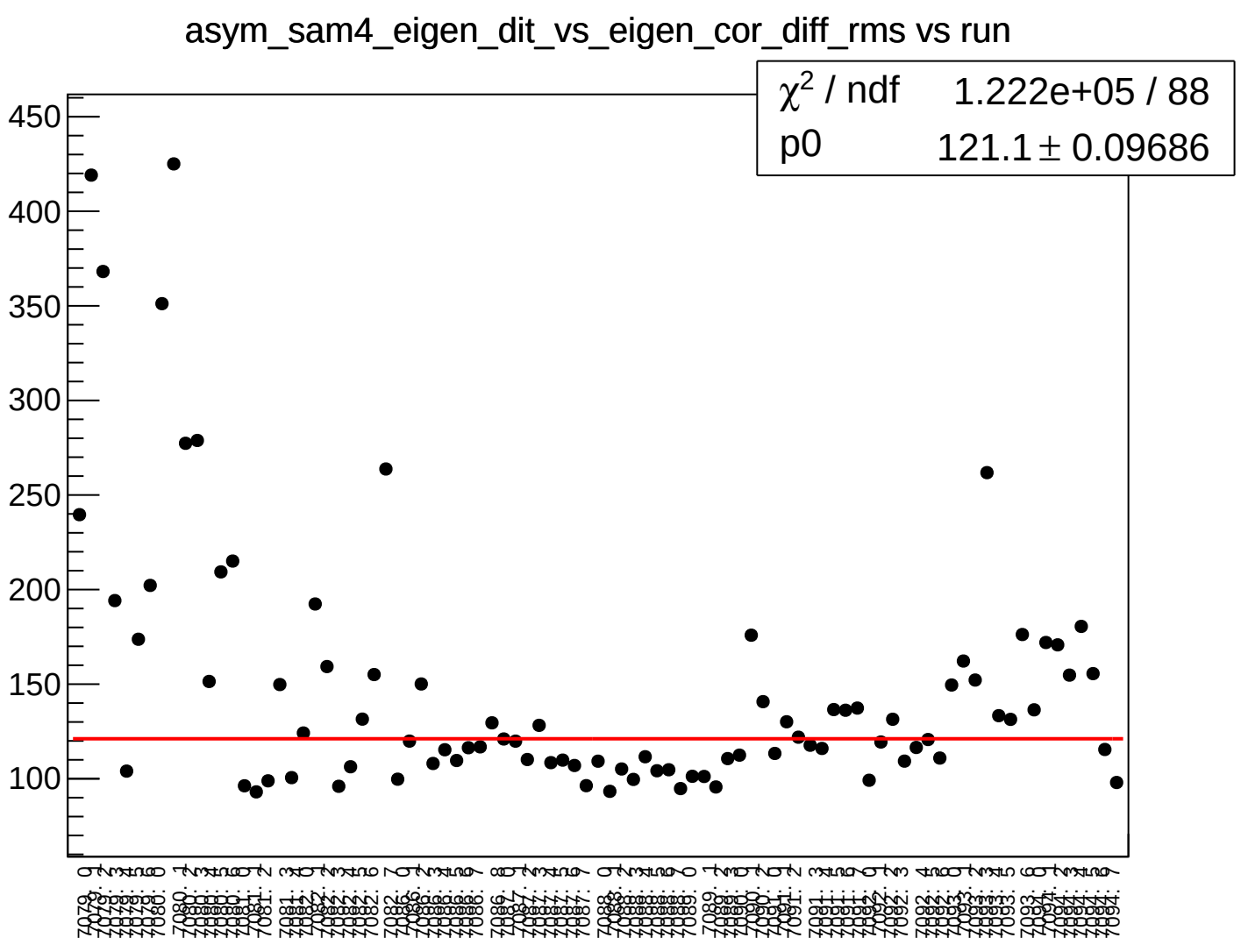

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 88
p0 0.05265 ± 0.137
pull
Entries 89
Mean −149.6
Std Dev 0

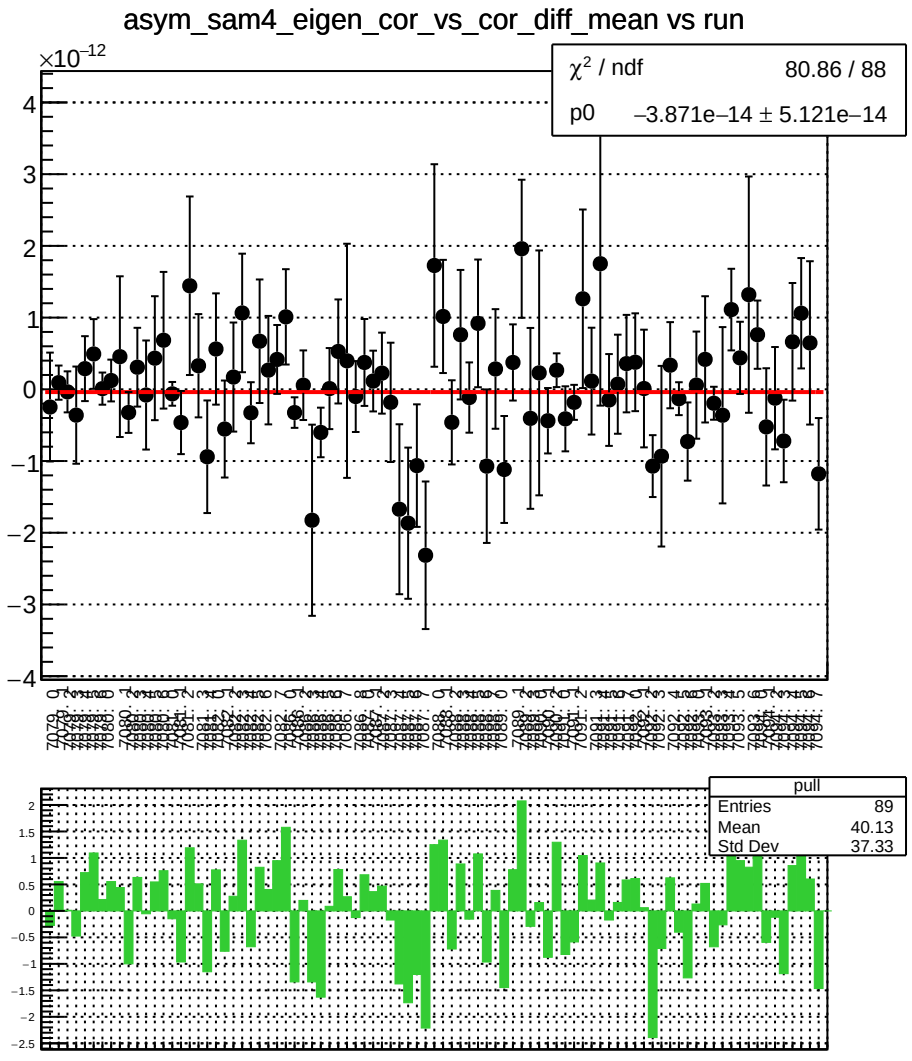

pull1D
Entries 89
Mean 0.02487
Std Dev 1.078

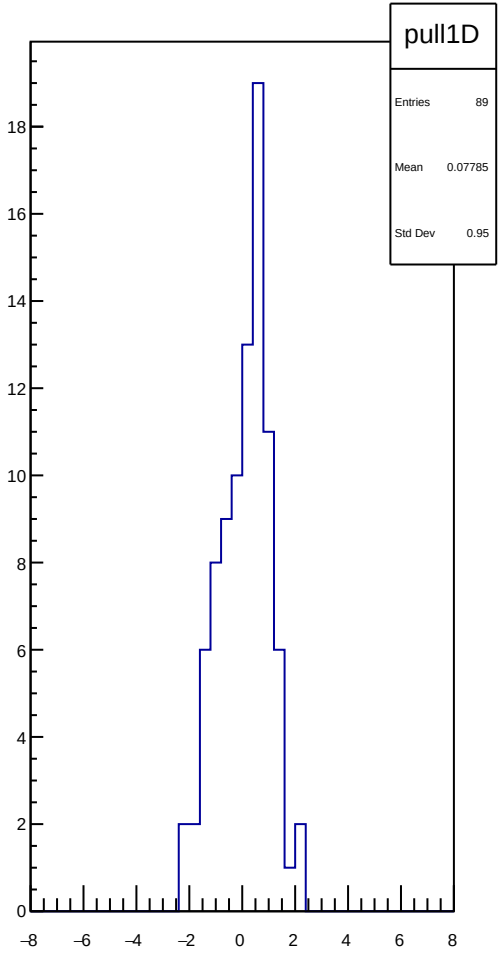

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.222e+05 / 88
p0 121.1 ± 0.09686
450
400
350
300
250
200
150
100

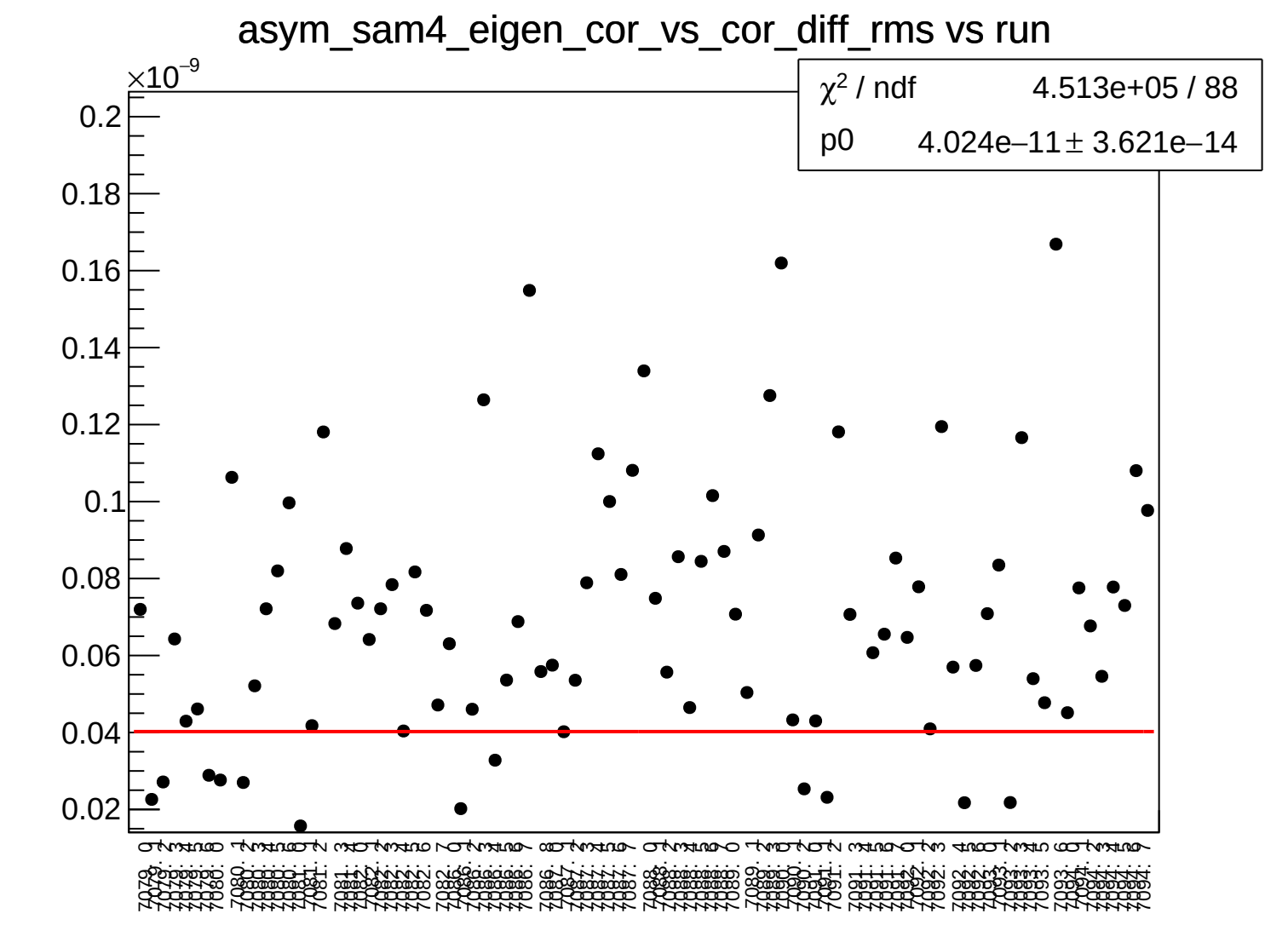

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 88
p0 0.05265 ± 0.137
pull
Entries 89
Mean −149.6
Std Dev 0

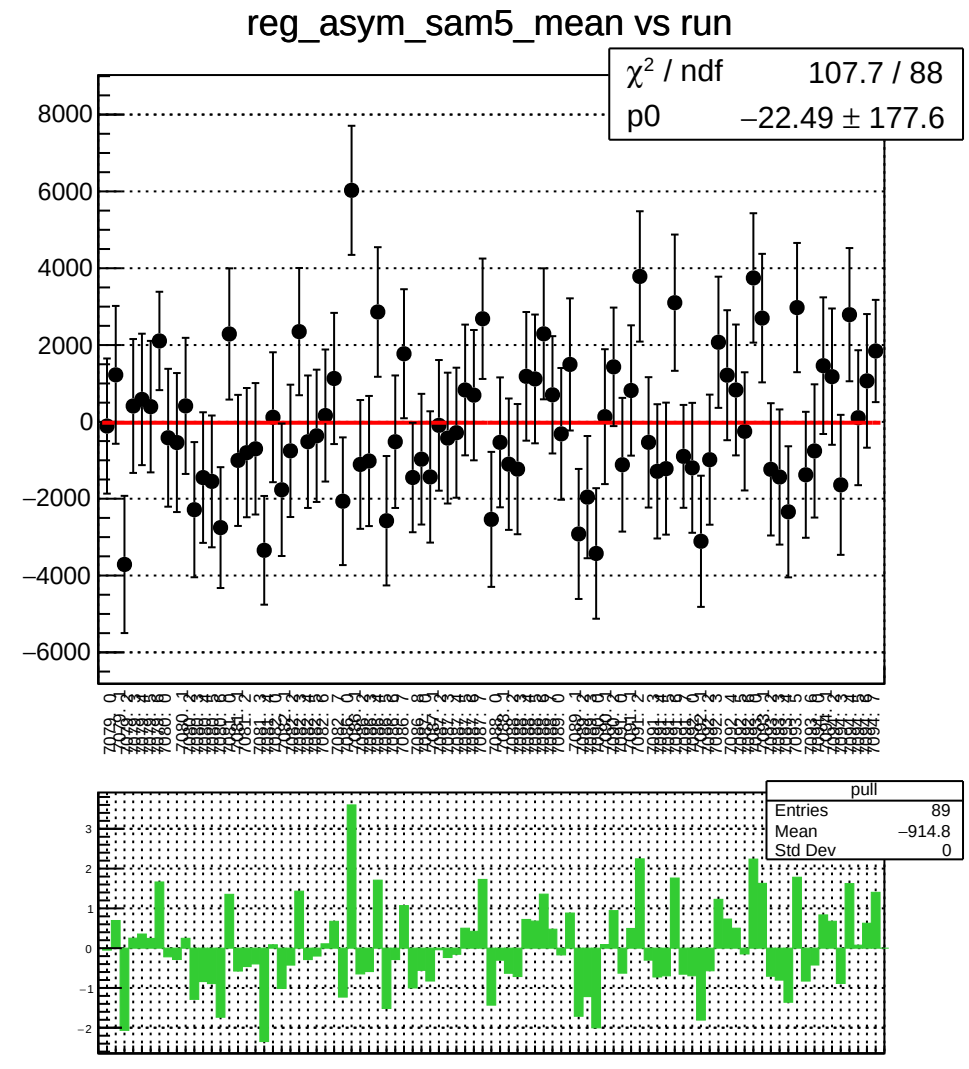

pull1D
Entries 89
Mean 0.02487
Std Dev 1.078

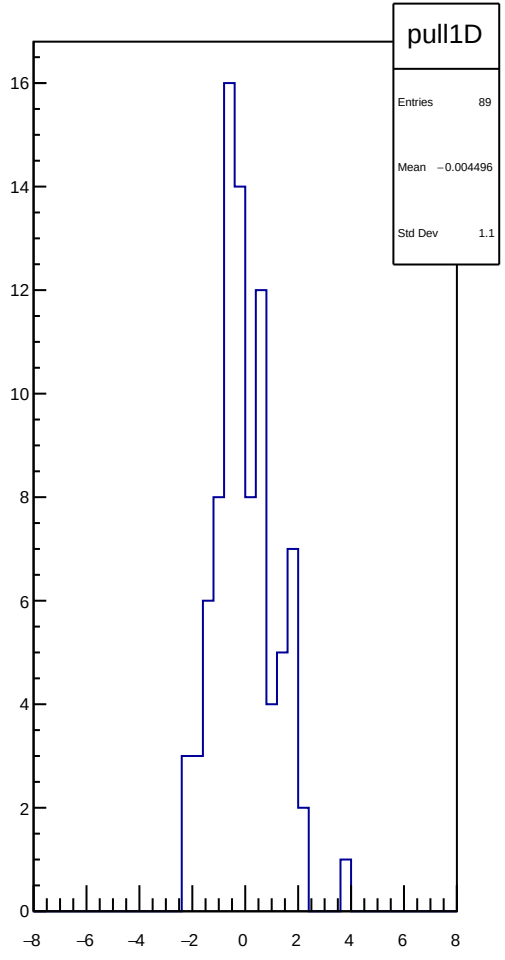

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.222e+05 / 88
p0 121.1 ± 0.09686
450
400
350
300
250
200
150
100

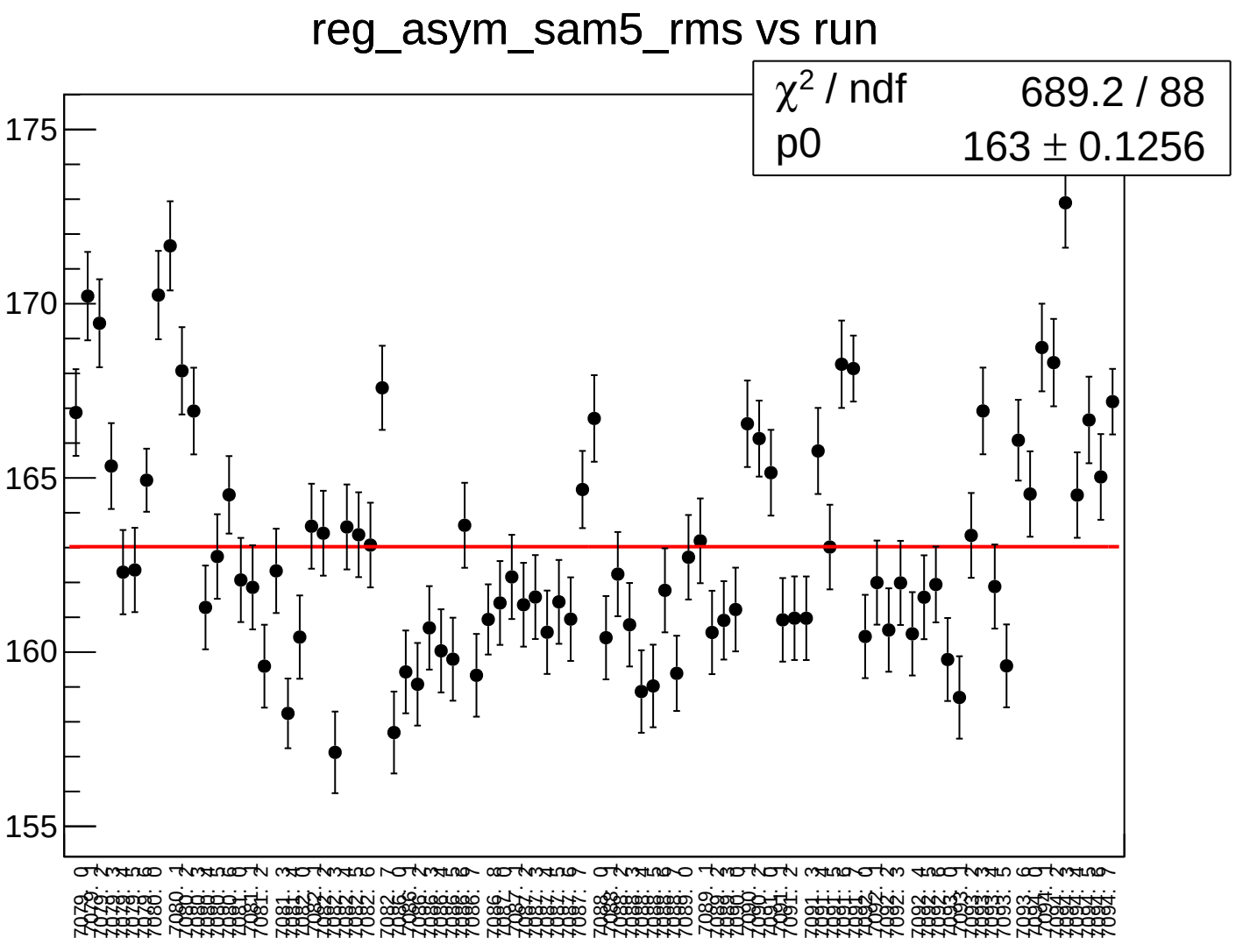

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.86 / 88
p0 −3.871e−14 ± 5.121e−14
pull
Entries 89
Mean 40.13
Std Dev 37.33

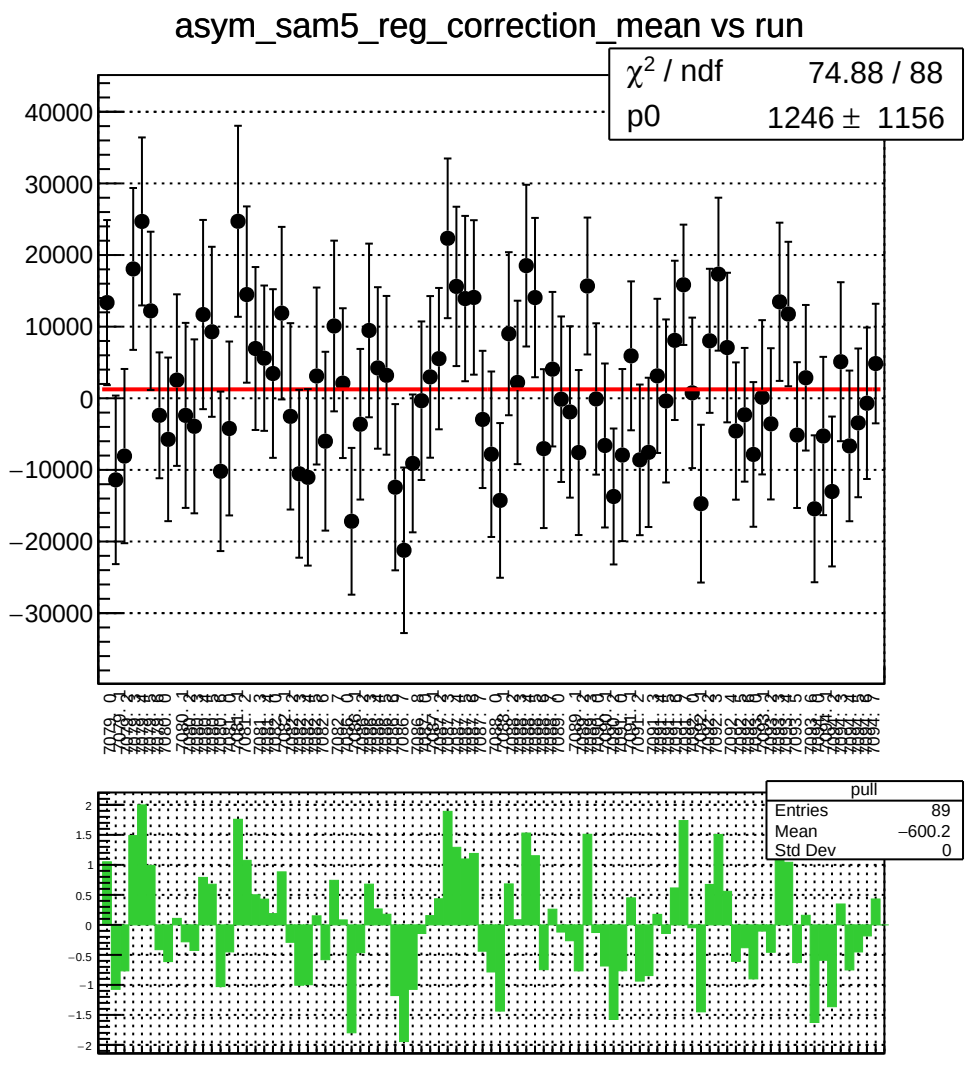

pull1D
Entries 89
Mean 0.07785
Std Dev 0.95

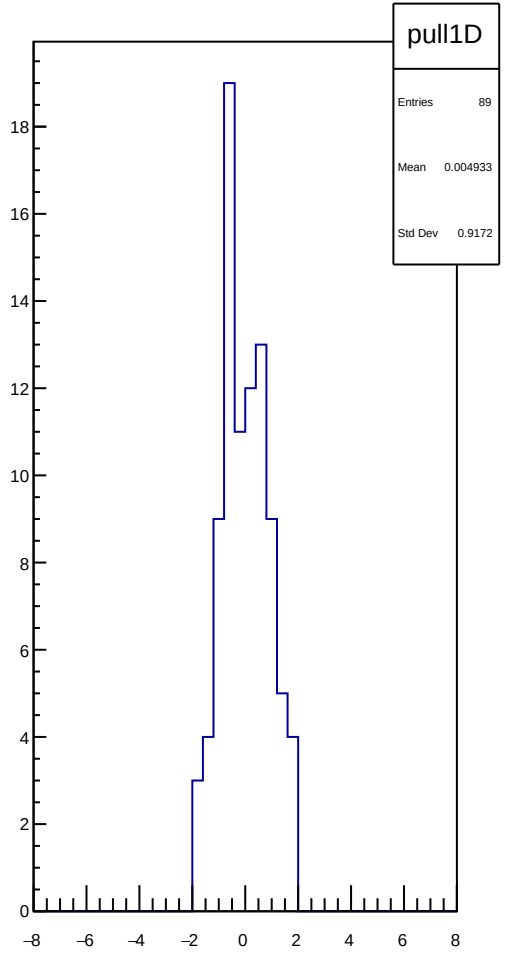

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.513e+05 / 88
p0 4.024e−11 ± 3.621e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

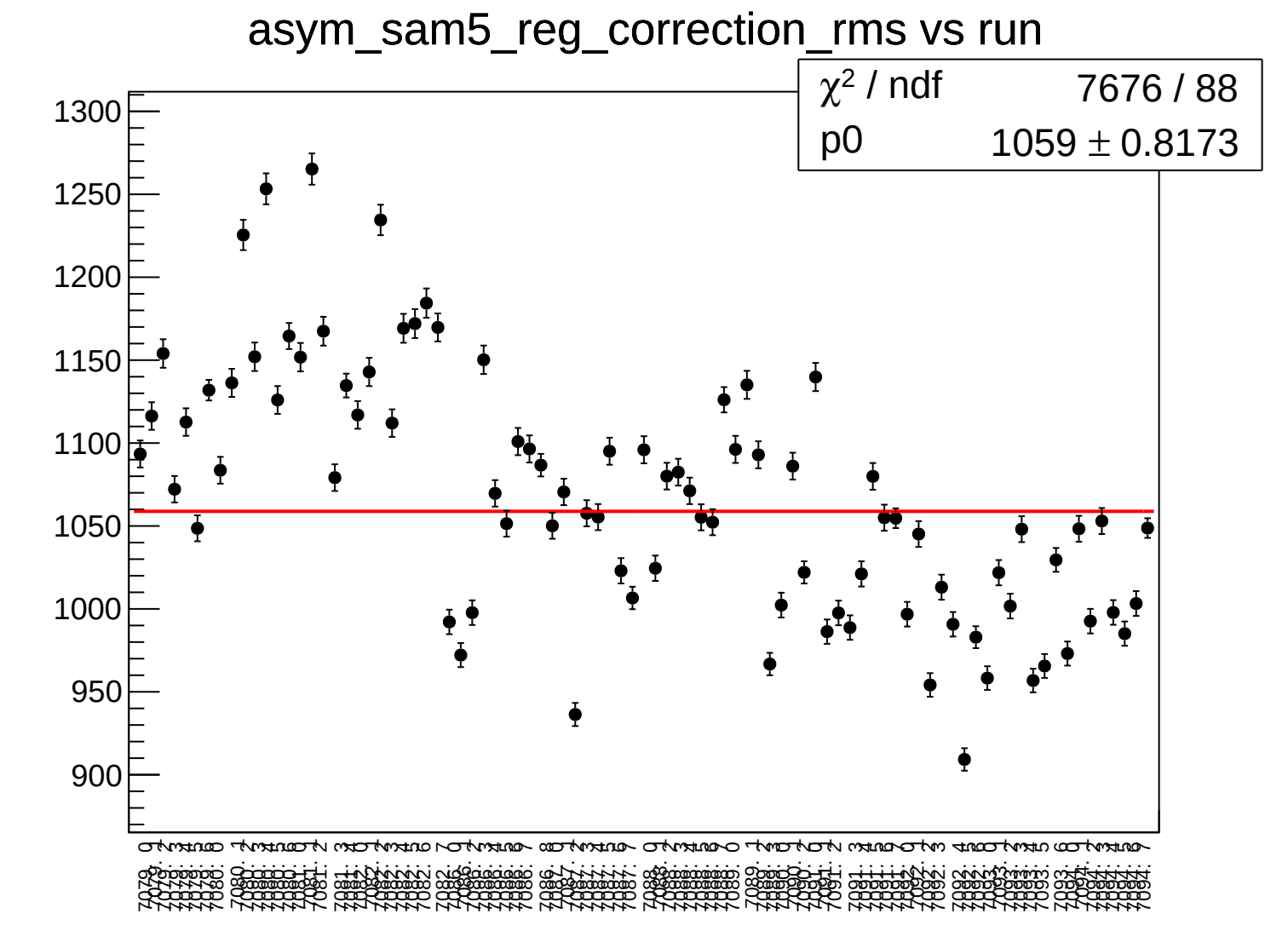

reg_asym_sam5_mean vs run
χ² / ndf 107.7 / 88
p0 −22.49 ± 177.6
pull
Entries 89
Mean −914.8
Std Dev 0

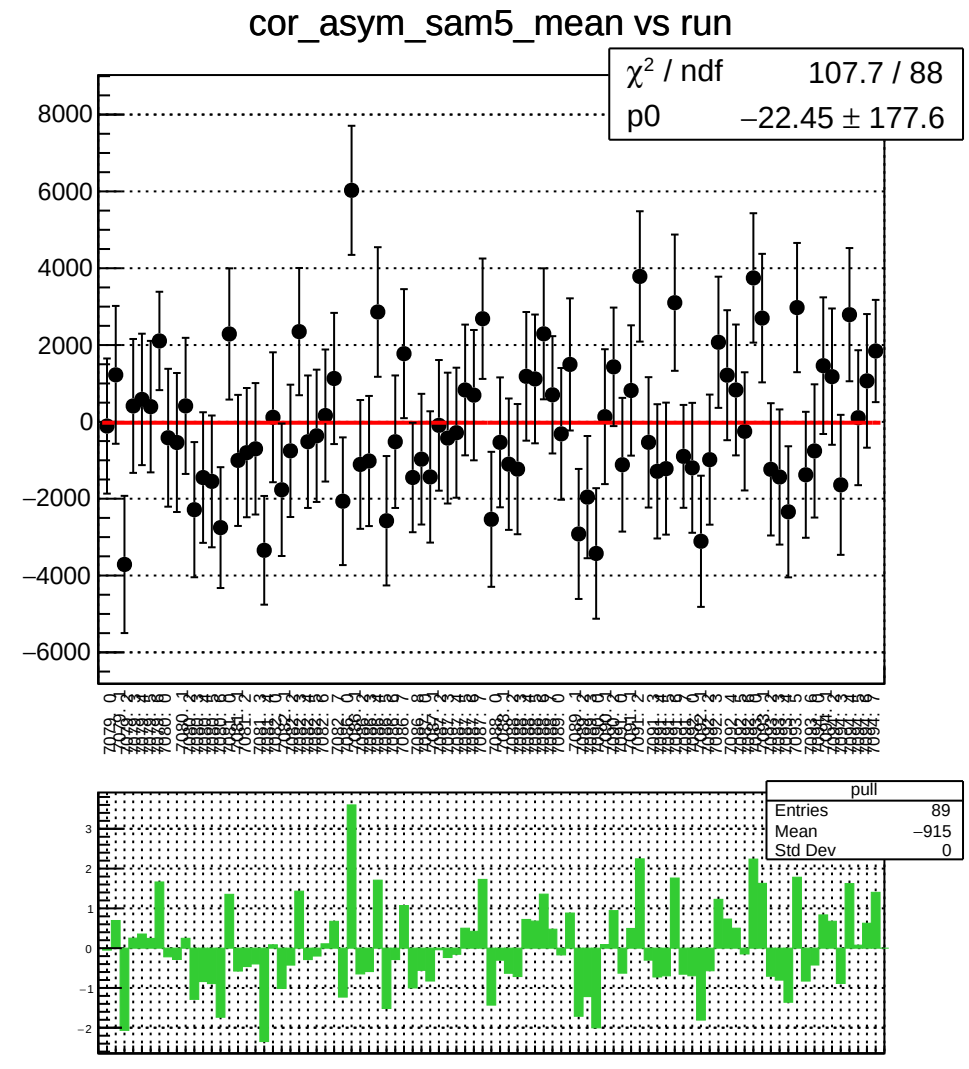

pull1D
Entries 89
Mean −0.004496
Std Dev 1.1

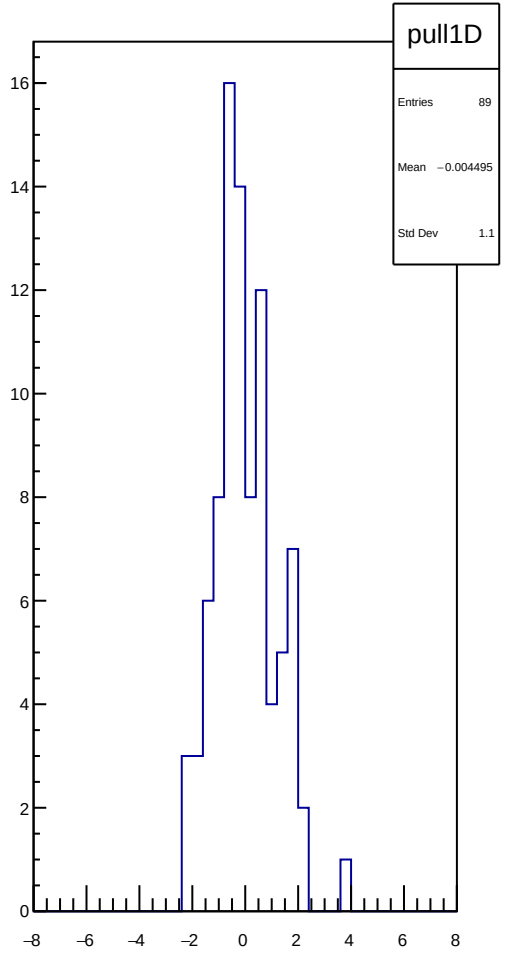

reg_asym_sam5_rms vs run
χ^2 / ndf 689.2 / 88
p0 163 ± 0.1256
175
170
165
160
155

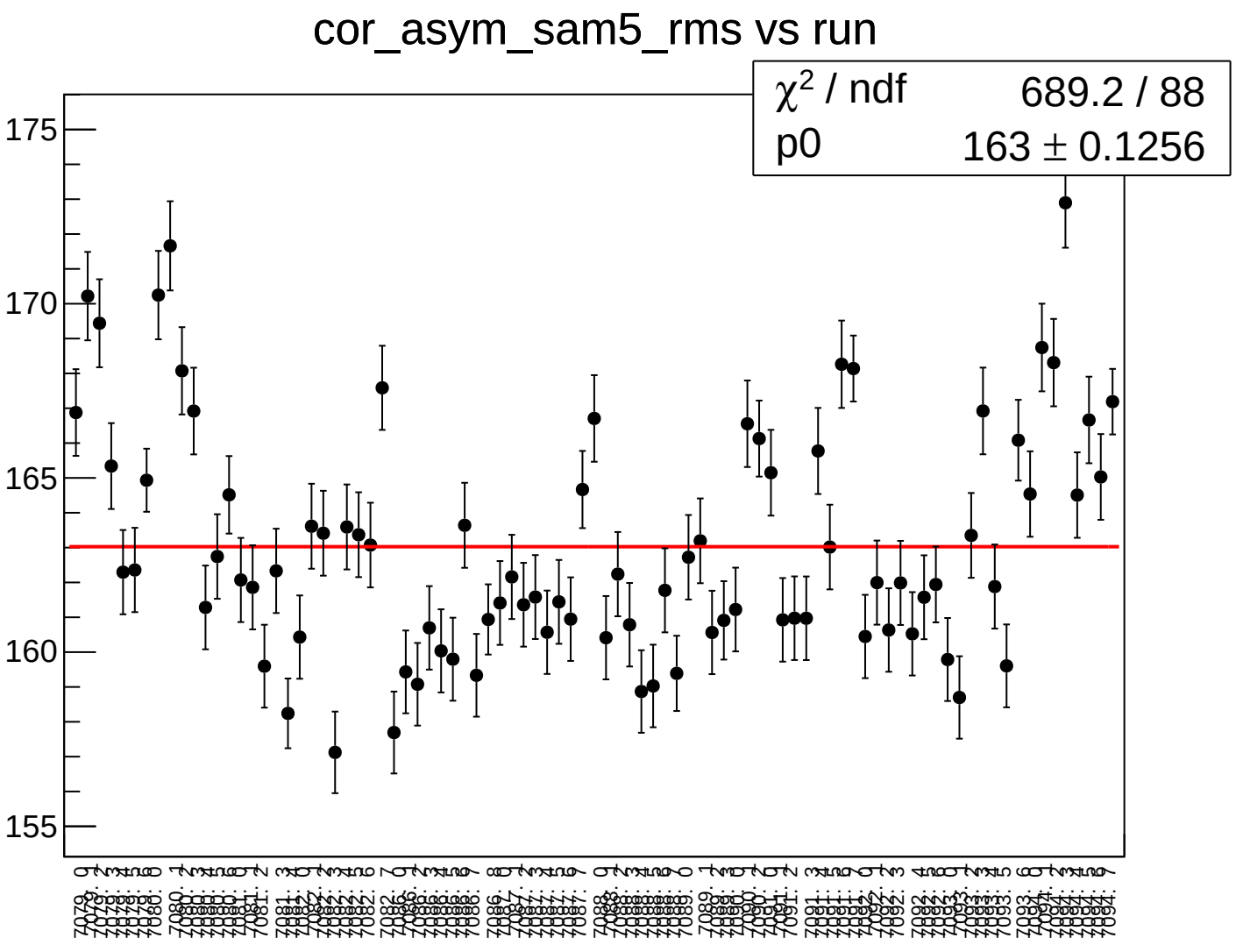

asym_sam5_reg_correction_mean vs run
χ² / ndf 74.88 / 88
p0 1246 ± 1156
pull
Entries 89
Mean −600.2
Std Dev 0

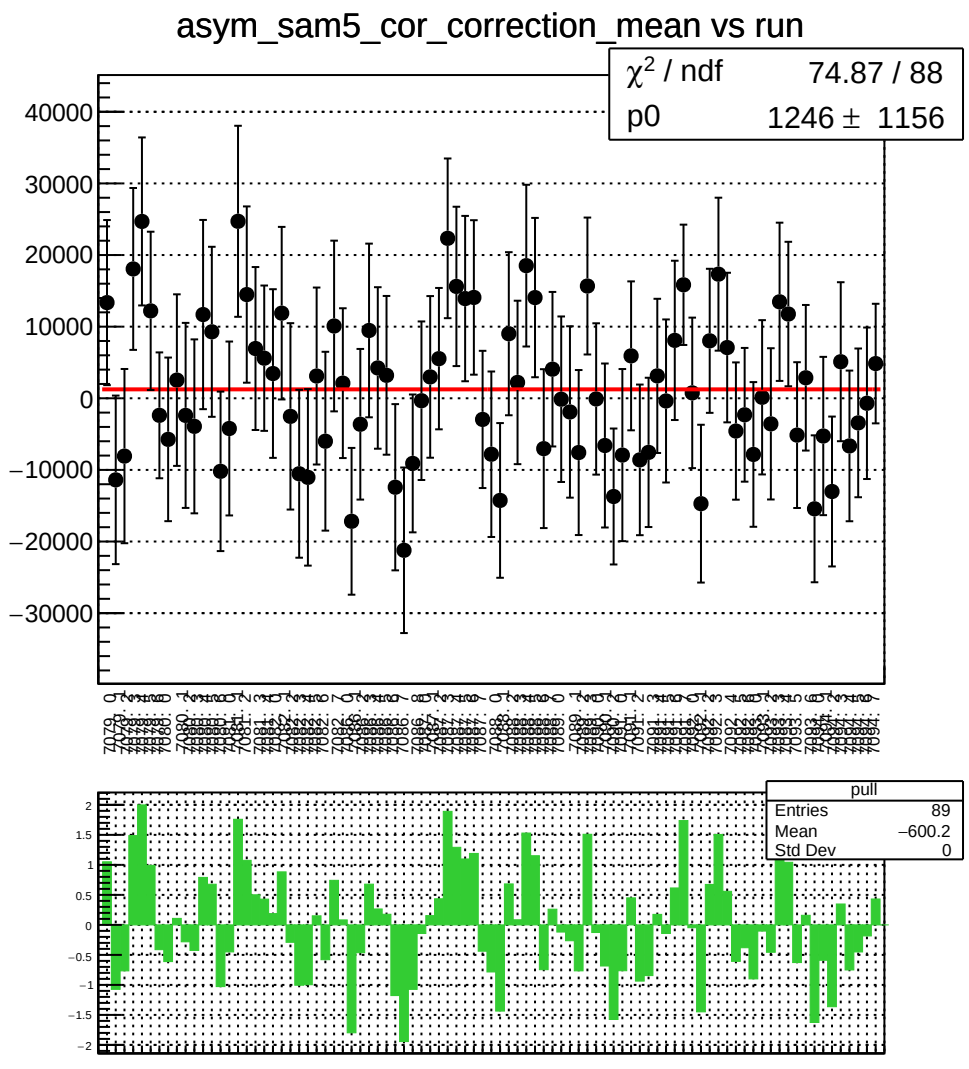

pull1D
Entries 89
Mean 0.004933
Std Dev 0.9172

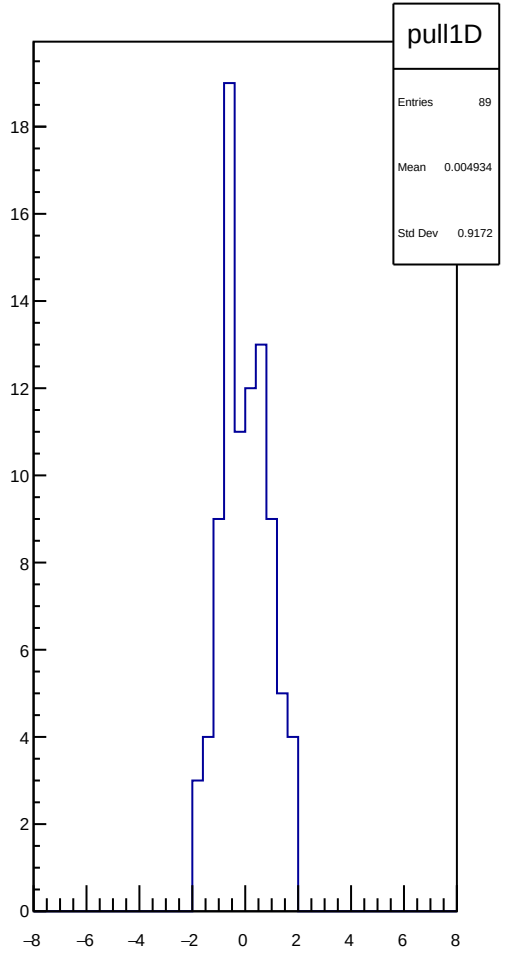

asym_sam5_reg_correction_rms vs run
χ² / ndf 7676 / 88
p0 1059 ± 0.8173
1300
1250
1200
1150
1100
1050
1000
950
900

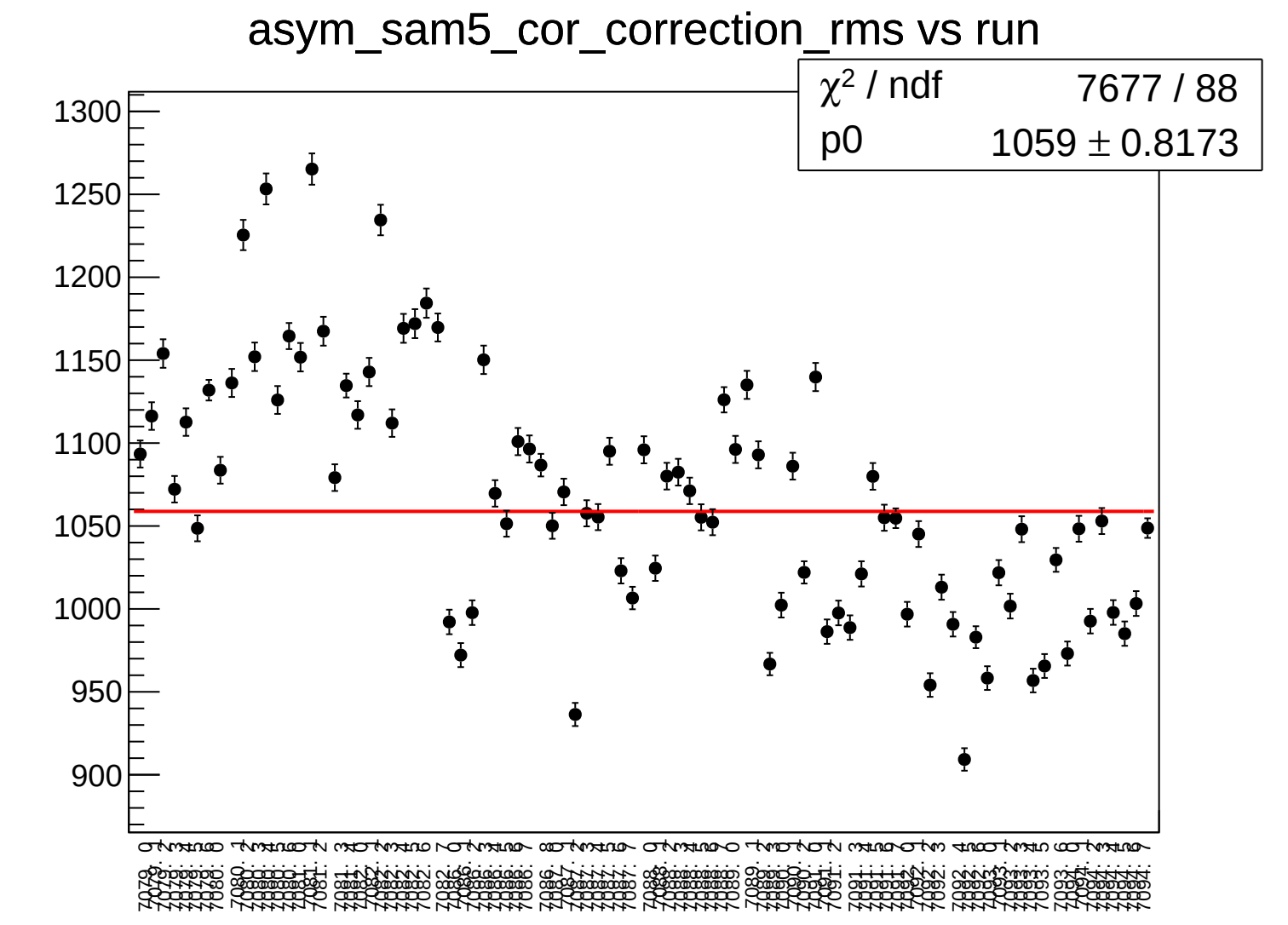

cor_asym_sam5_mean vs run
χ² / ndf 107.7 / 88
p0 −22.45 ± 177.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −915
Std Dev 0
3
2
1
0
−1
−2

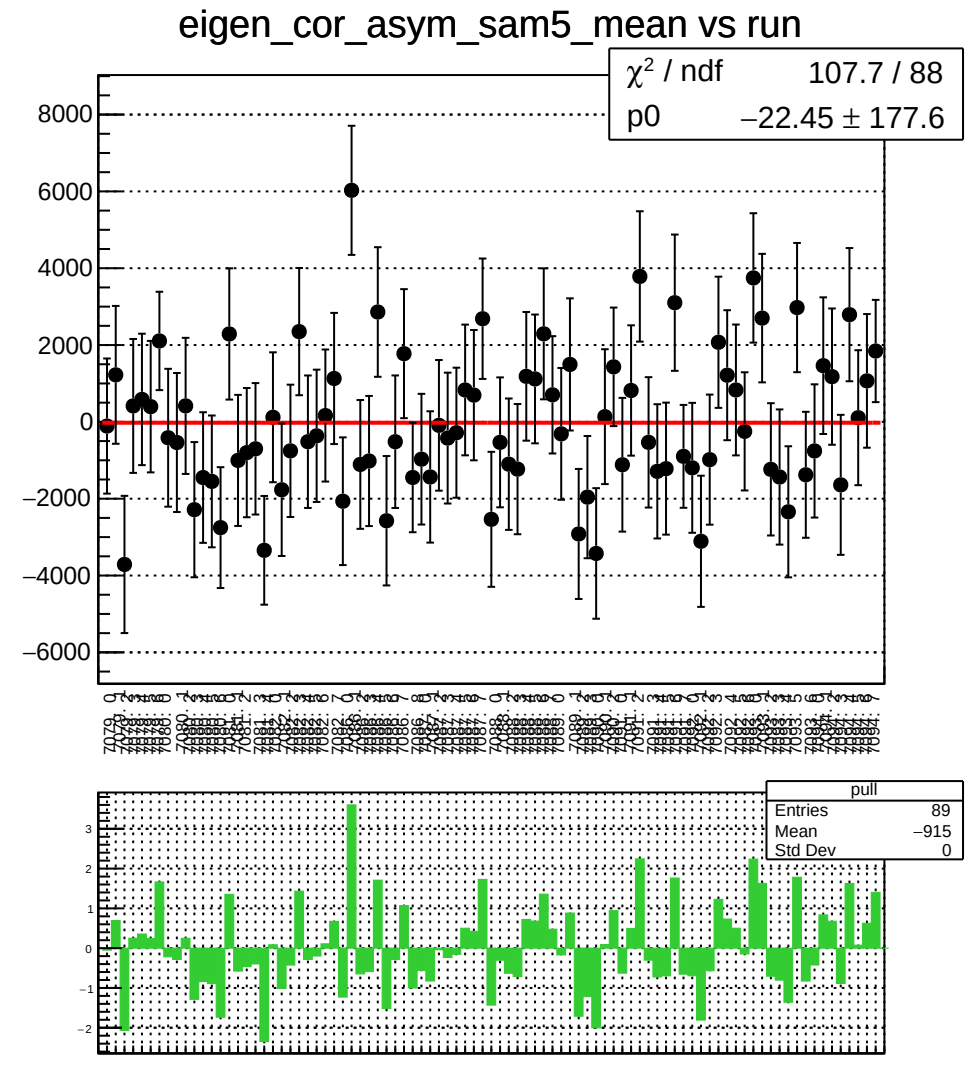

pull1D
Entries 89
Mean −0.004495
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

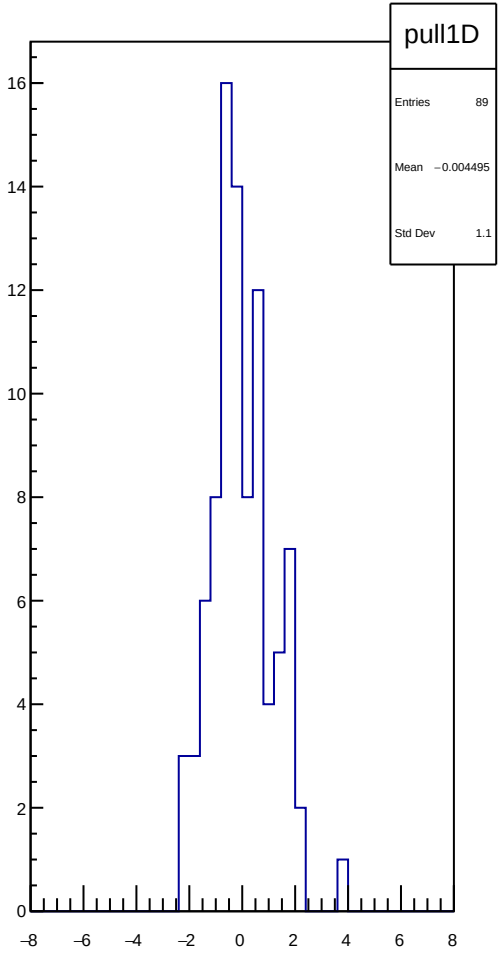

cor_asym_sam5_rms vs run
χ^2 / ndf 689.2 / 88
p0 163 ± 0.1256
175
170
165
160
155

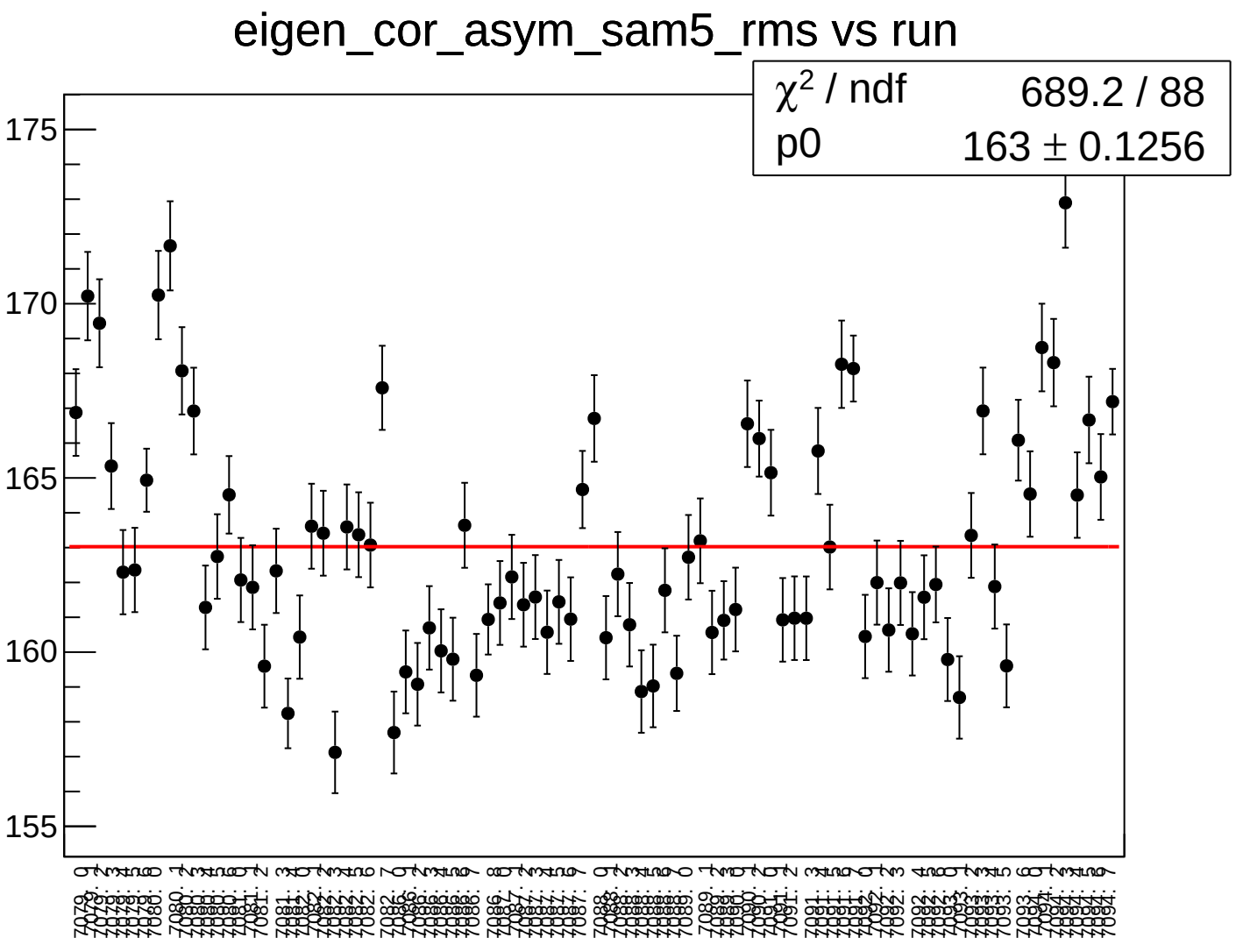

asym_sam5_cor_correction_mean vs run
χ² / ndf 74.87 / 88
p0 1246 ± 1156
pull
Entries 89
Mean −600.2
Std Dev 0

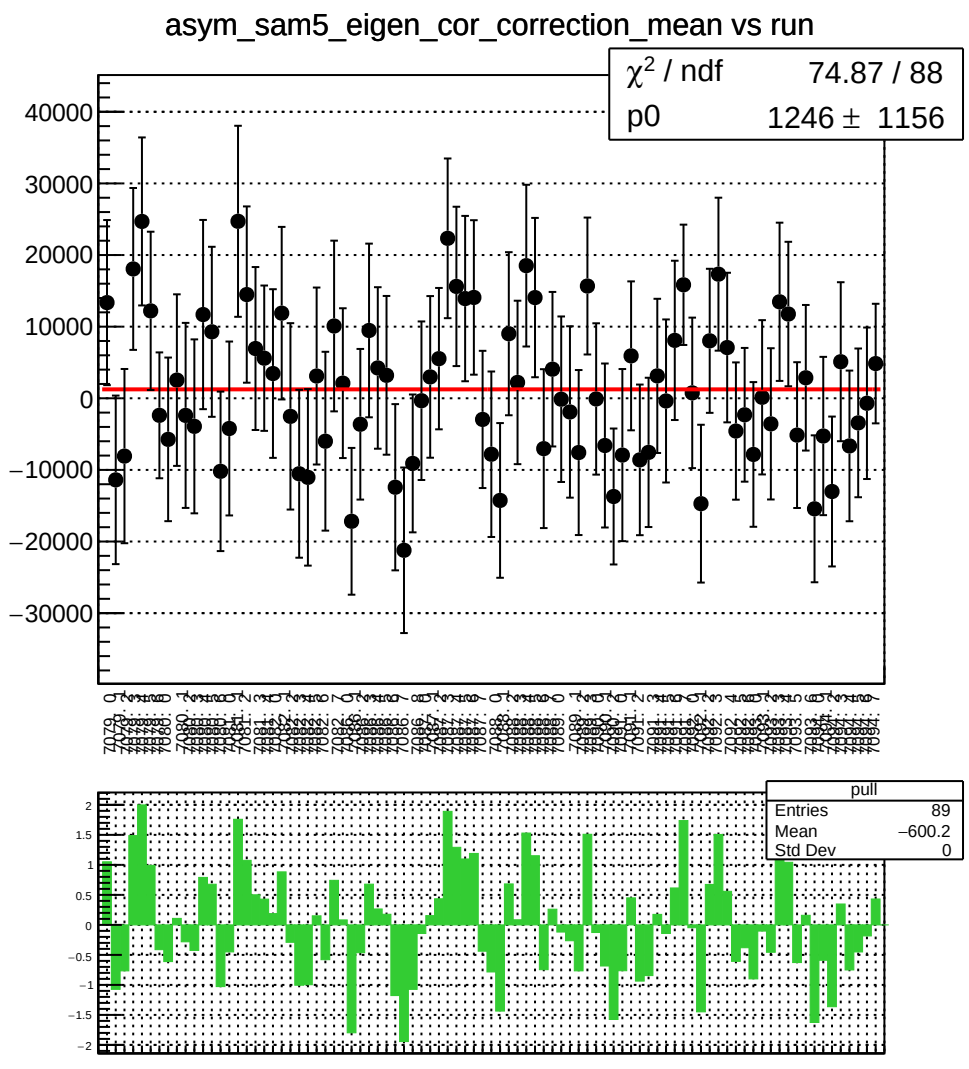

pull1D
Entries 89
Mean 0.004934
Std Dev 0.9172

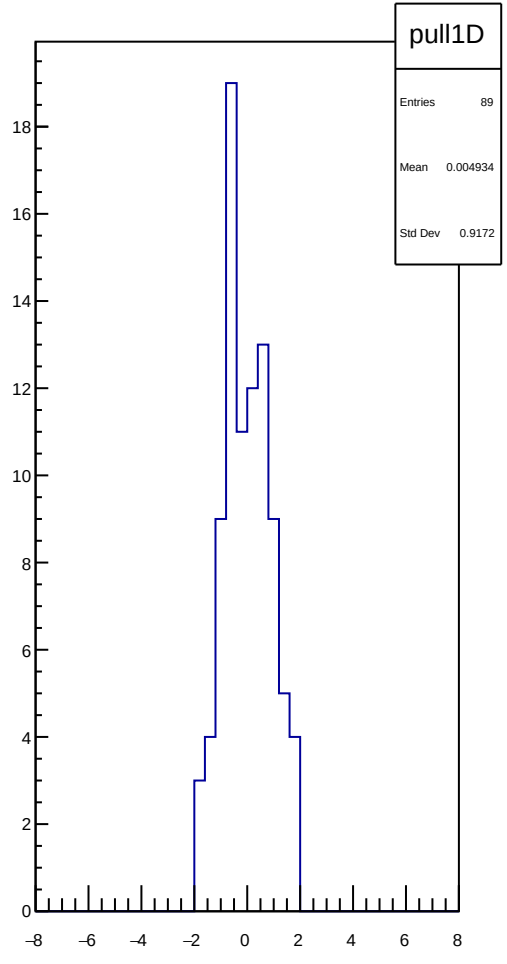

asym_sam5_cor_correction_rms vs run
χ² / ndf 7677 / 88
p0 1059 ± 0.8173
1300
1250
1200
1150
1100
1050
1000
950
900

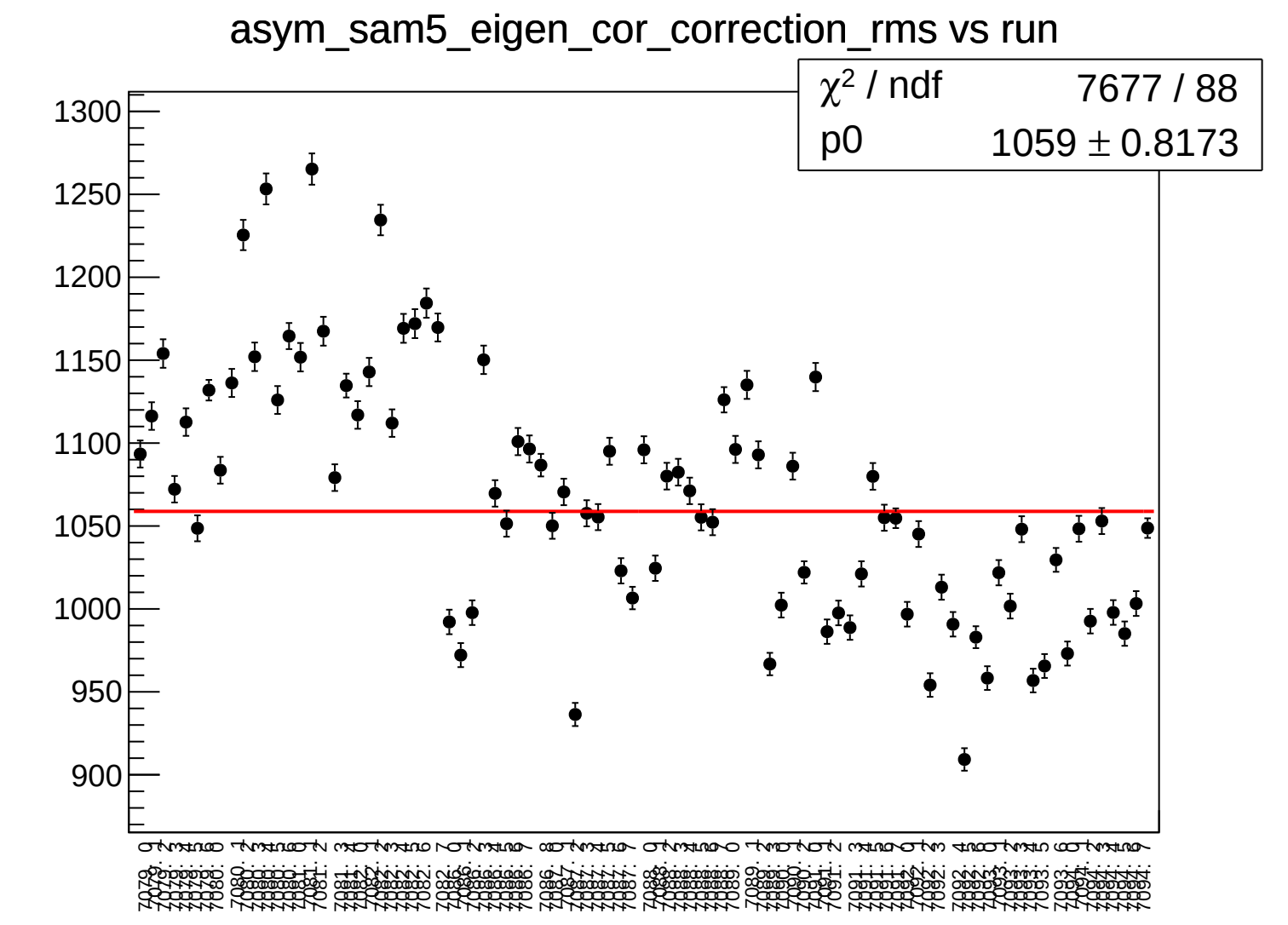

eigen_cor_asym_sam5_mean vs run
χ² / ndf 107.7 / 88
p0 −22.45 ± 177.6
pull
Entries 89
Mean −915
Std Dev 0

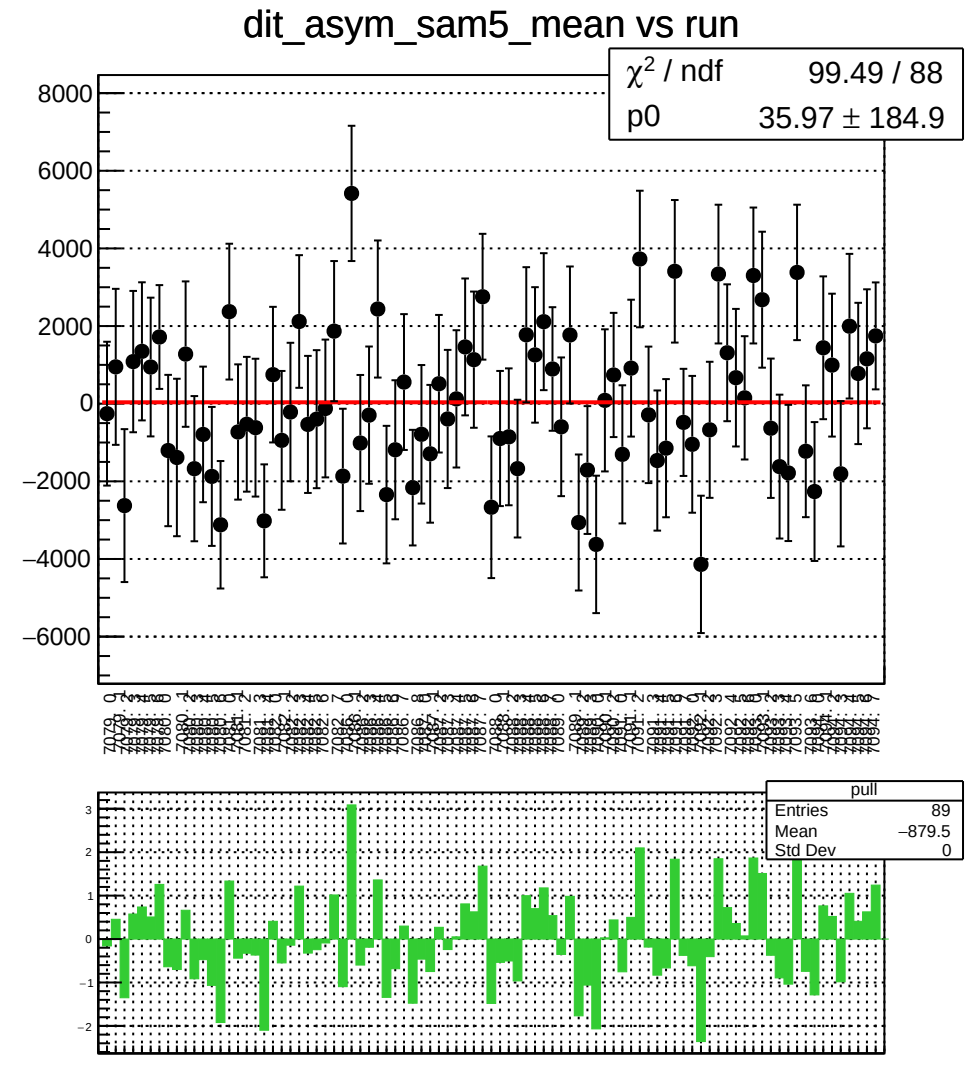

pull1D
Entries 89
Mean −0.004495
Std Dev 1.1

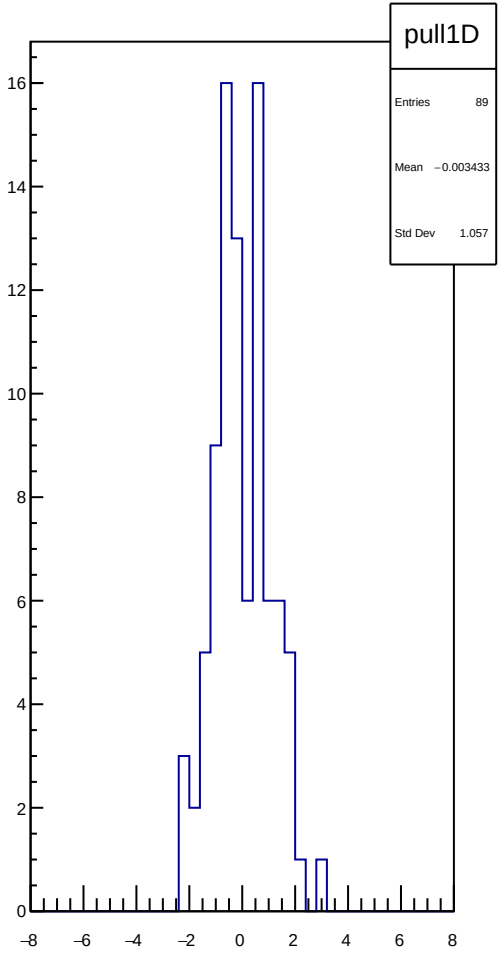

eigen_cor_asym_sam5_rms vs run
χ² / ndf 689.2 / 88
p0 163 ± 0.1256
175
170
165
160
155

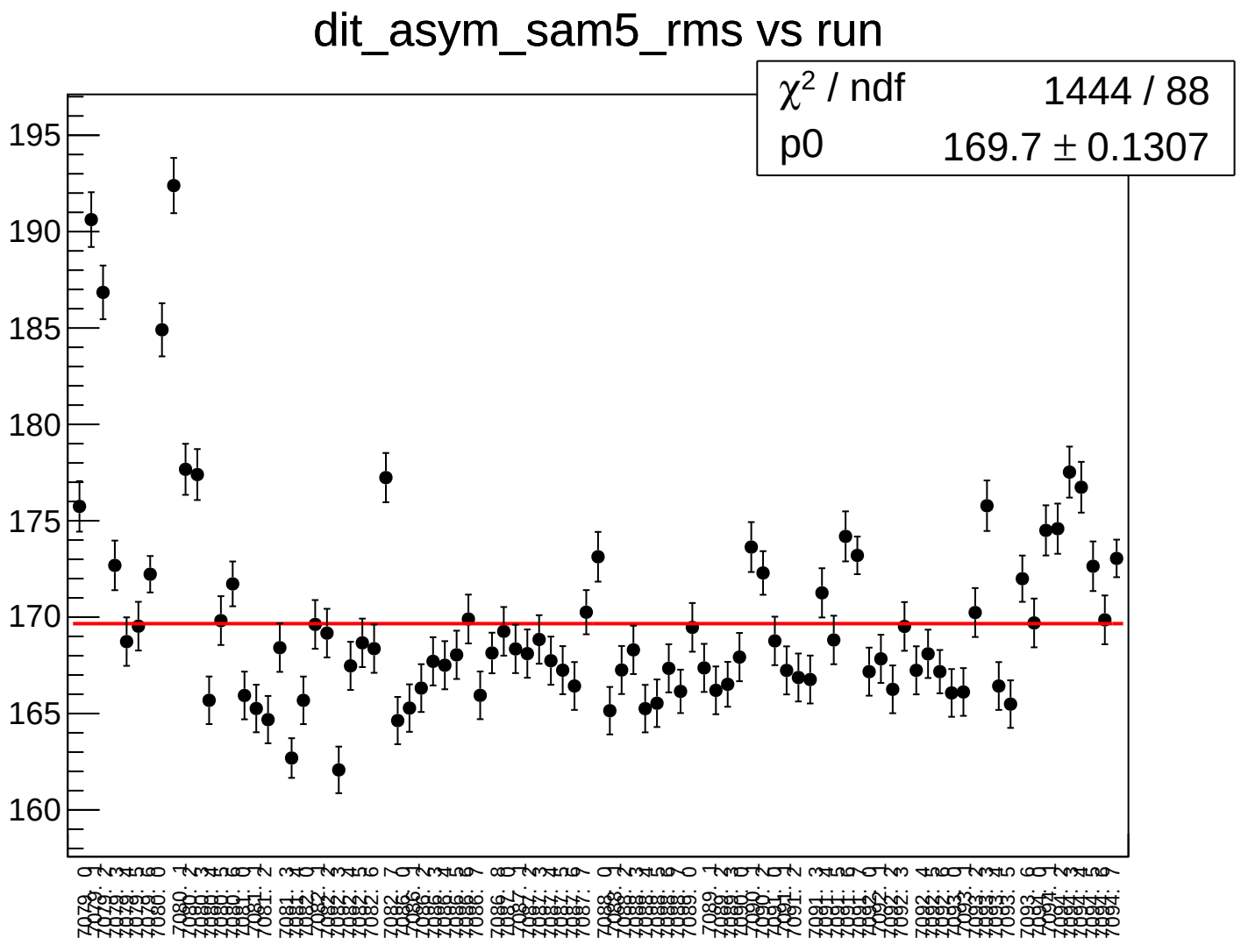

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 74.87 / 88
p0 1246 ± 1156
pull
Entries 89
Mean −600.2
Std Dev 0

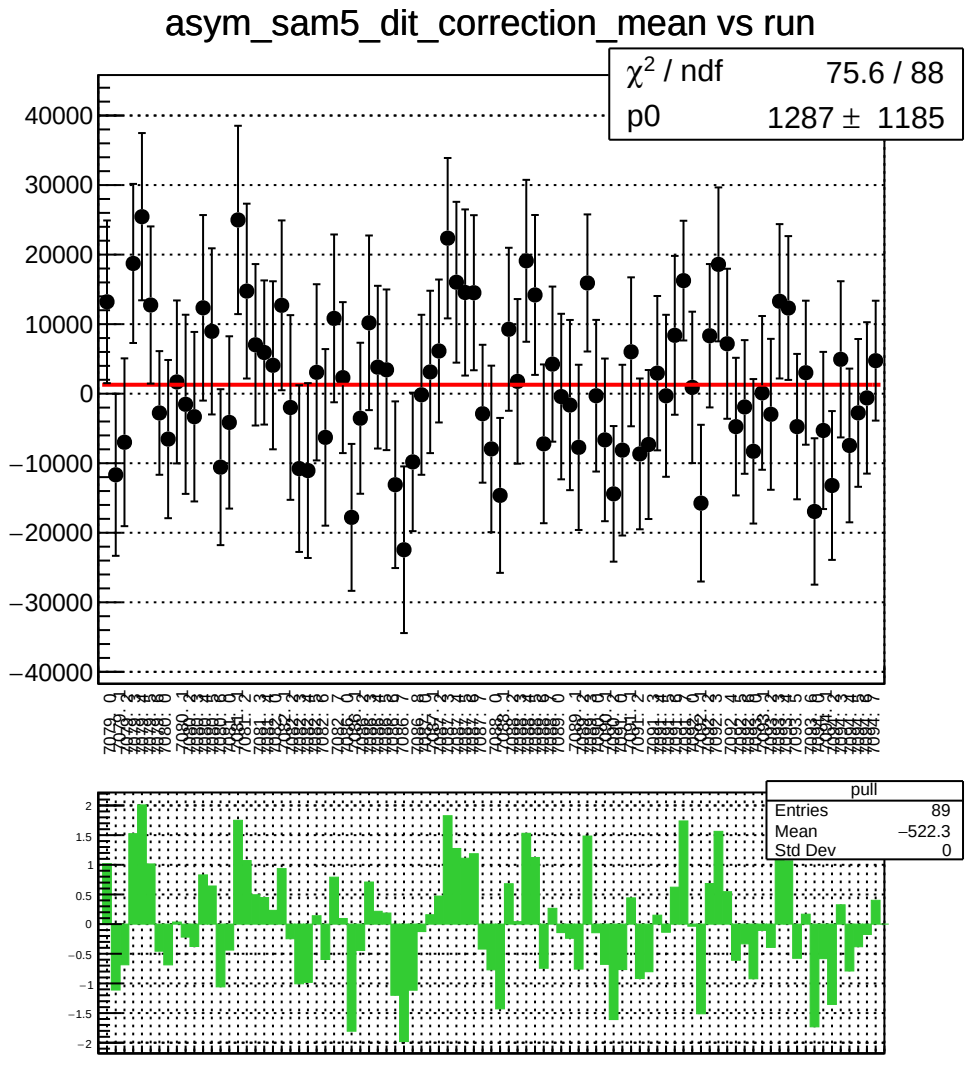

pull1D
Entries 89
Mean 0.004934
Std Dev 0.9172

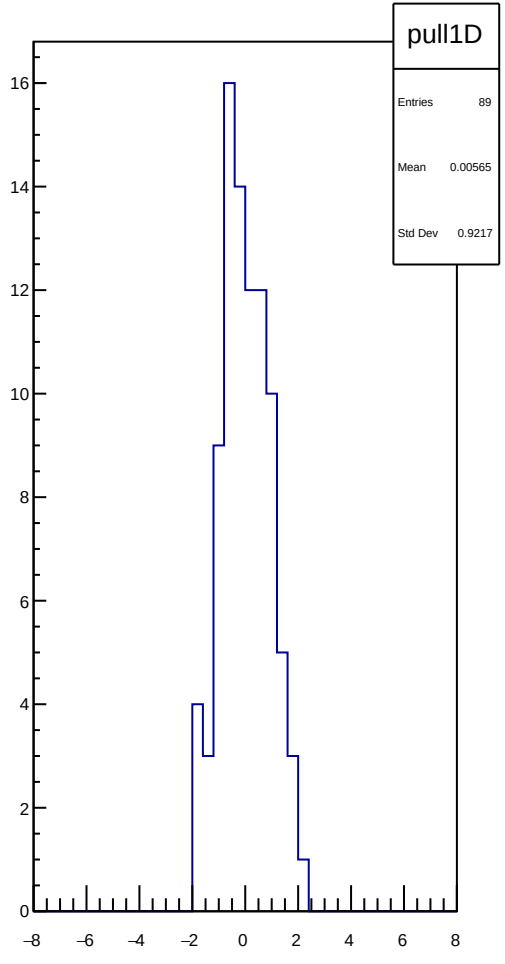

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 7677 / 88
p0 1059 ± 0.8173
1300
1250
1200
1150
1100
1050
1000
950
900

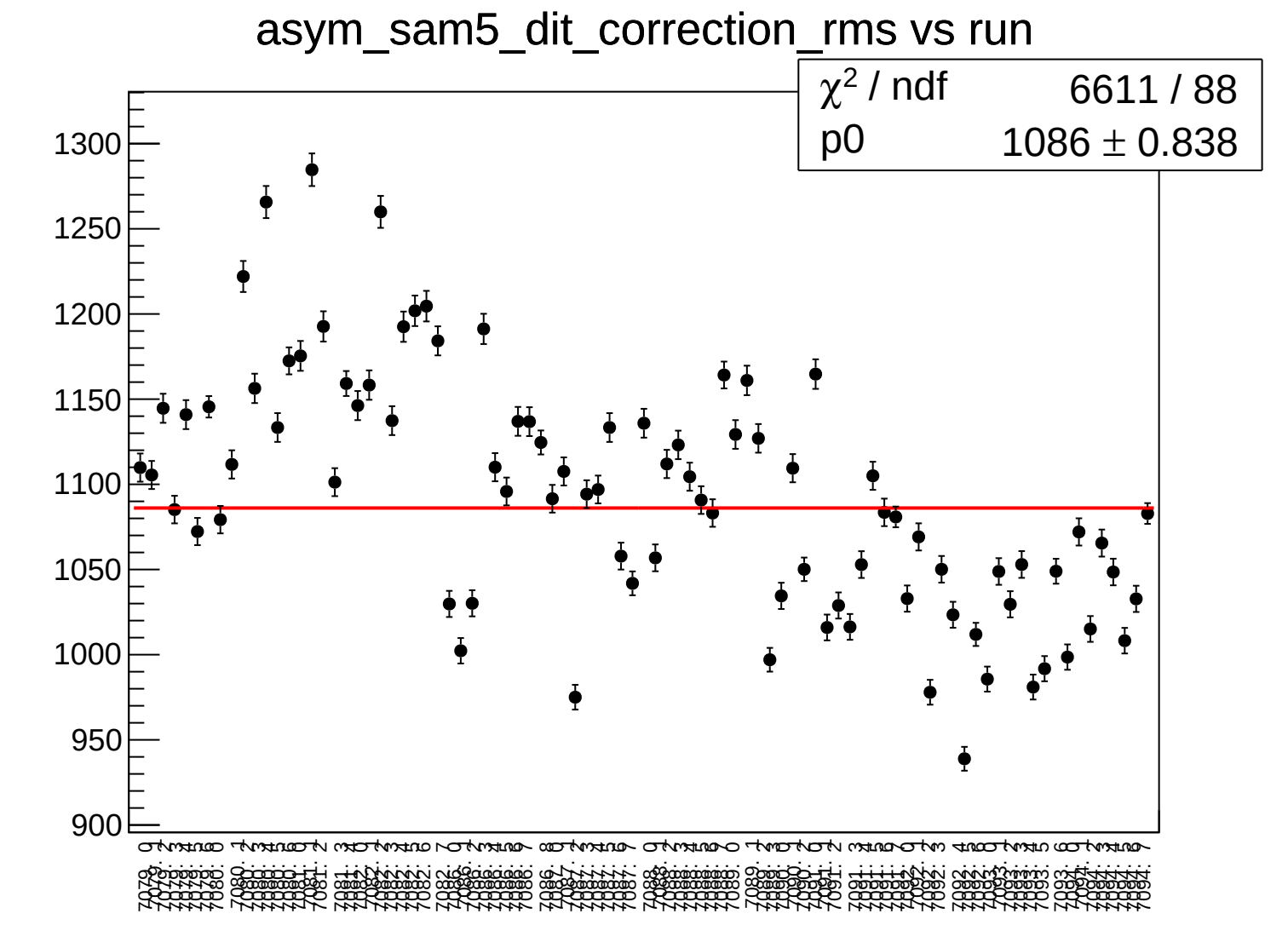

dit_asym_sam5_mean vs run
χ² / ndf 99.49 / 88
p0 35.97 ± 184.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −879.5
Std Dev 0
3
2
1
0
−1
−2

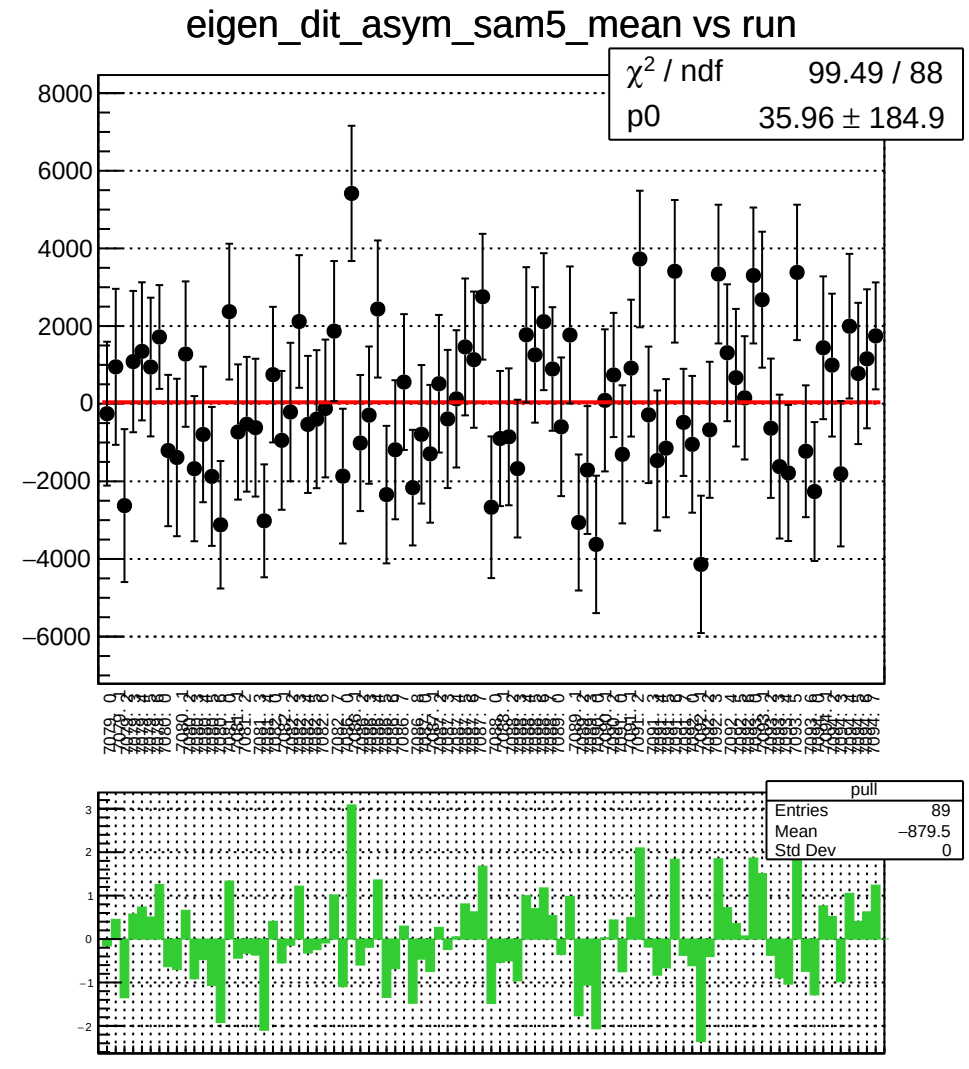

pull1D
Entries 89
Mean −0.003433
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

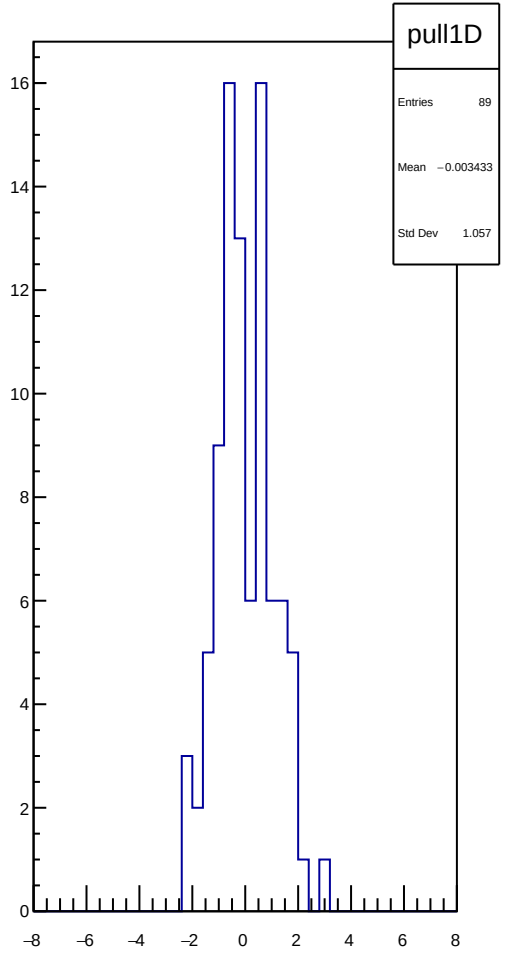

dit_asym_sam5_rms vs run
χ² / ndf 1444 / 88
p0 169.7 ± 0.1307
195
190
185
180
175
170
165
160

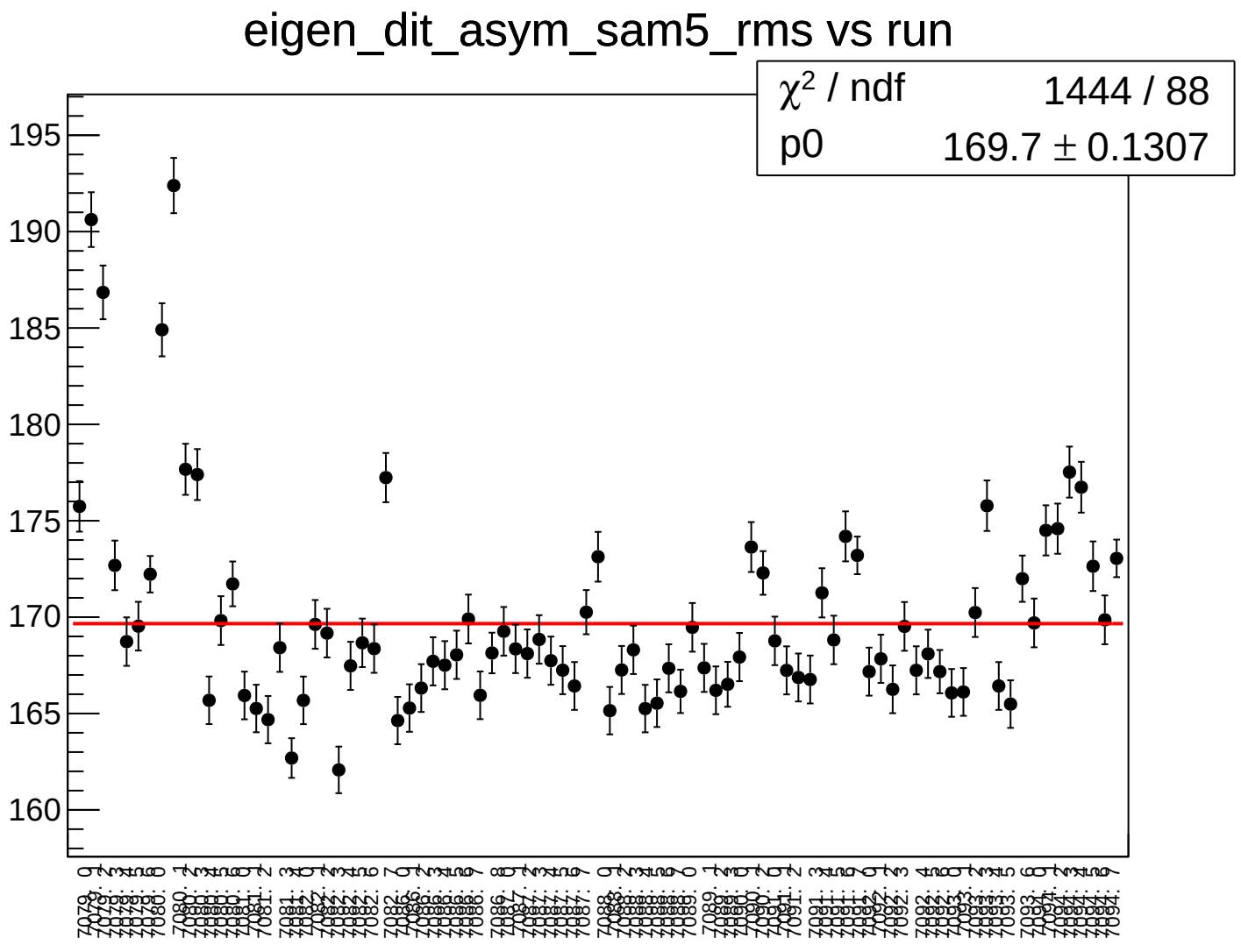

asym_sam5_dit_correction_mean vs run
χ² / ndf 75.6 / 88
p0 1287 ± 1185
pull
Entries 89
Mean −522.3
Std Dev 0

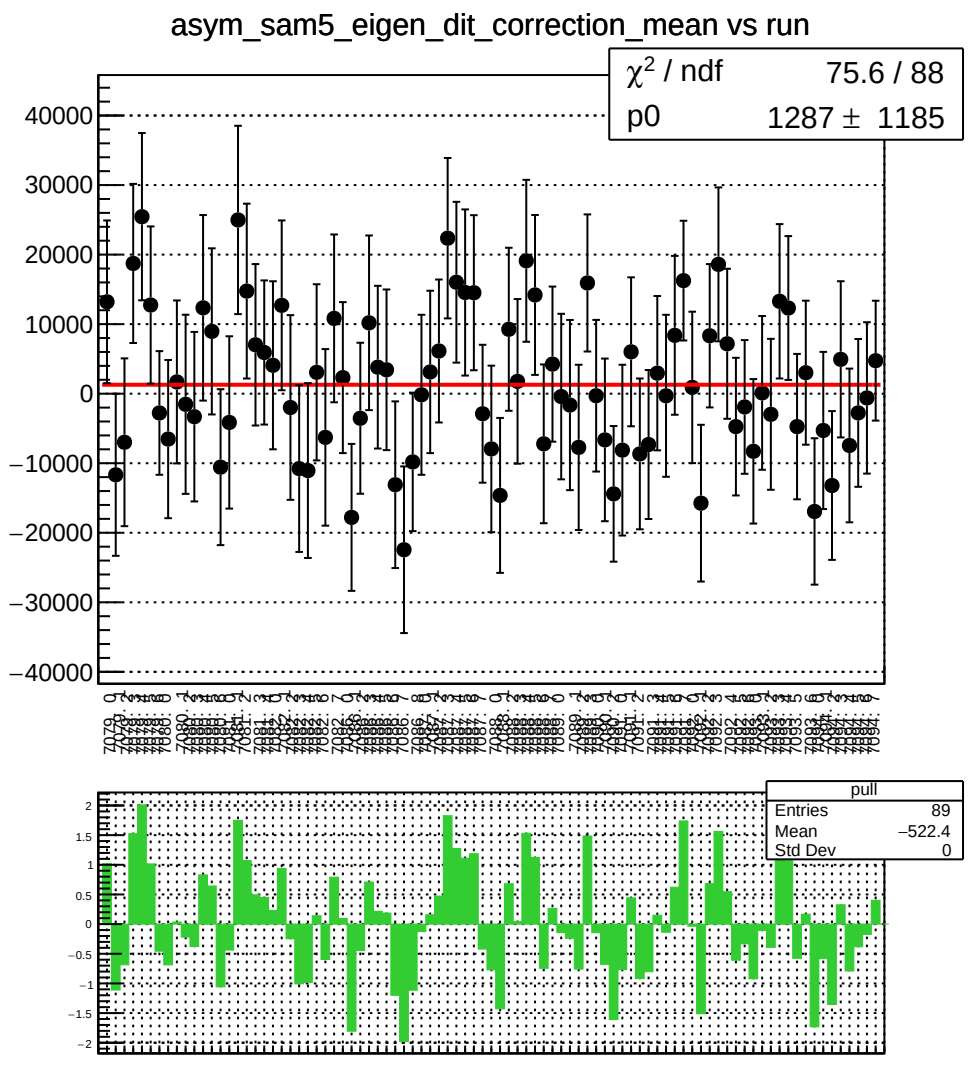

pull1D
Entries 89
Mean 0.00565
Std Dev 0.9217

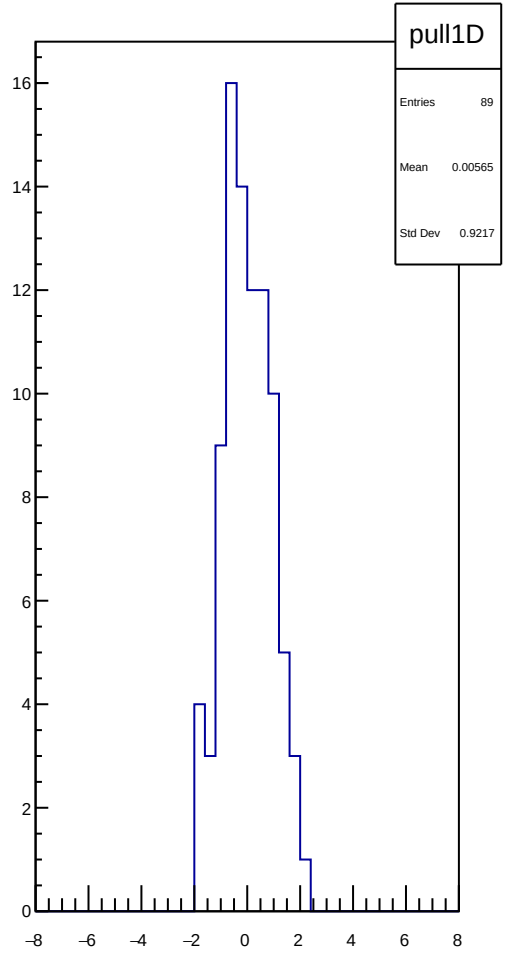

asym_sam5_dit_correction_rms vs run
χ^2 / ndf 6611 / 88
p0 1086 ± 0.838
1300
1250
1200
1150
1100
1050
1000
950
900

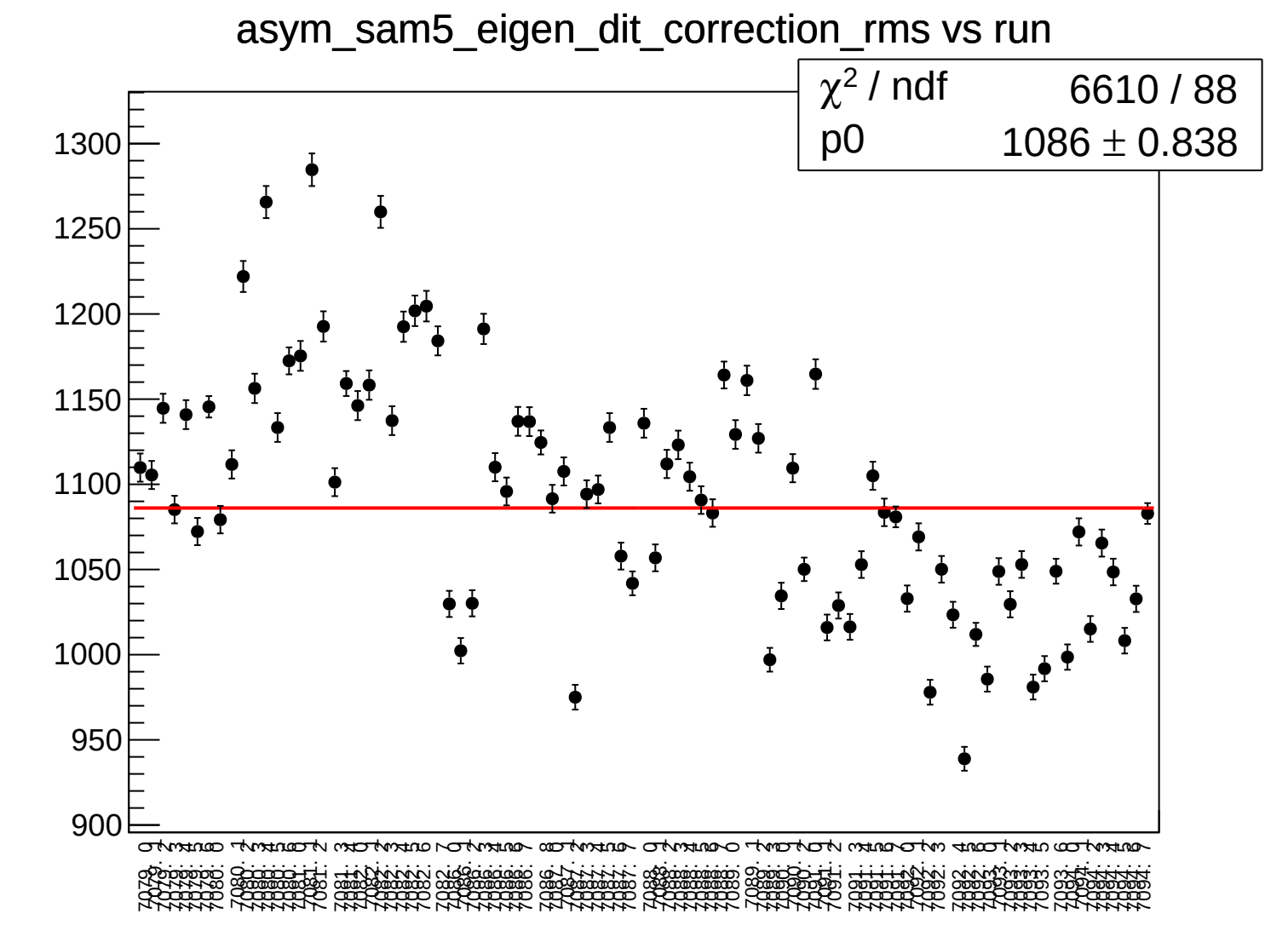

eigen_dit_asym_sam5_mean vs run
χ² / ndf 99.49 / 88
p0 35.96 ± 184.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −879.5
Std Dev 0
3
2
1
0
−1
−2

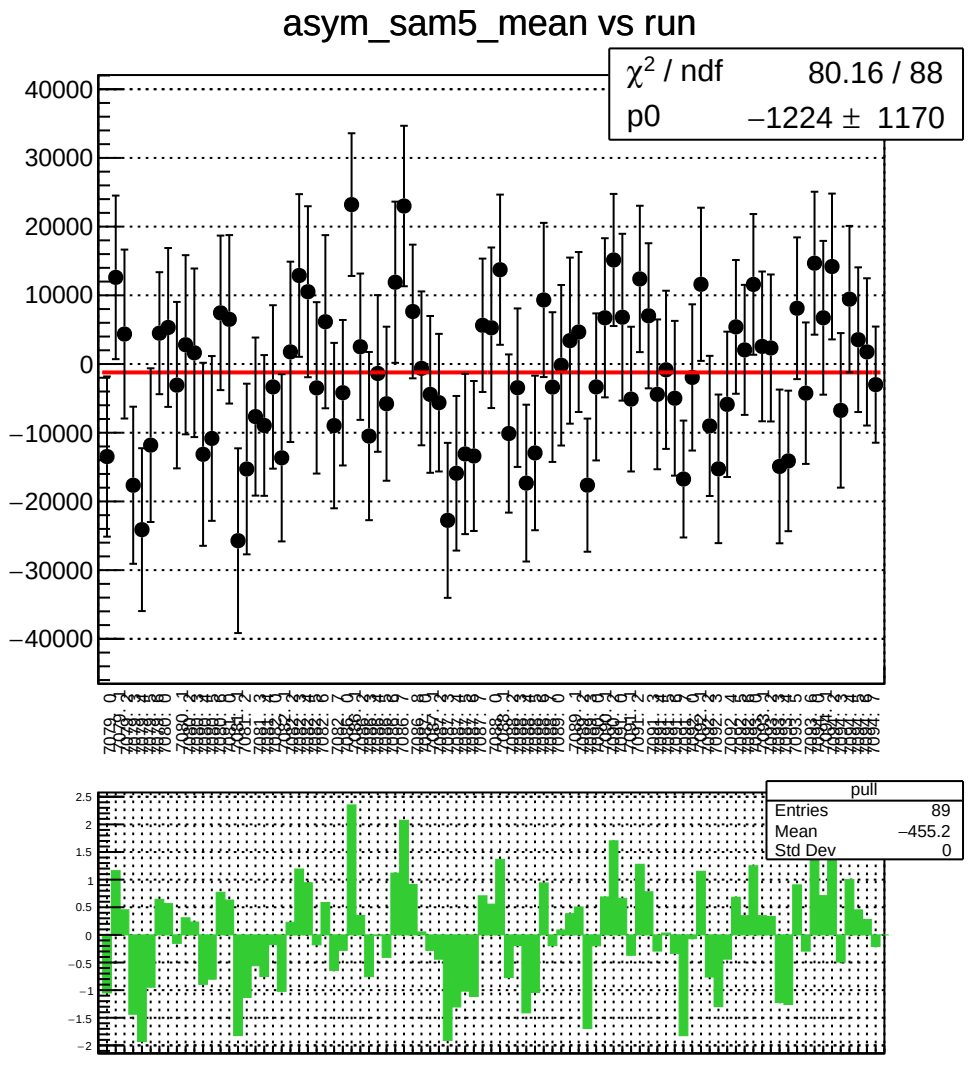

pull1D
Entries 89
Mean −0.003433
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

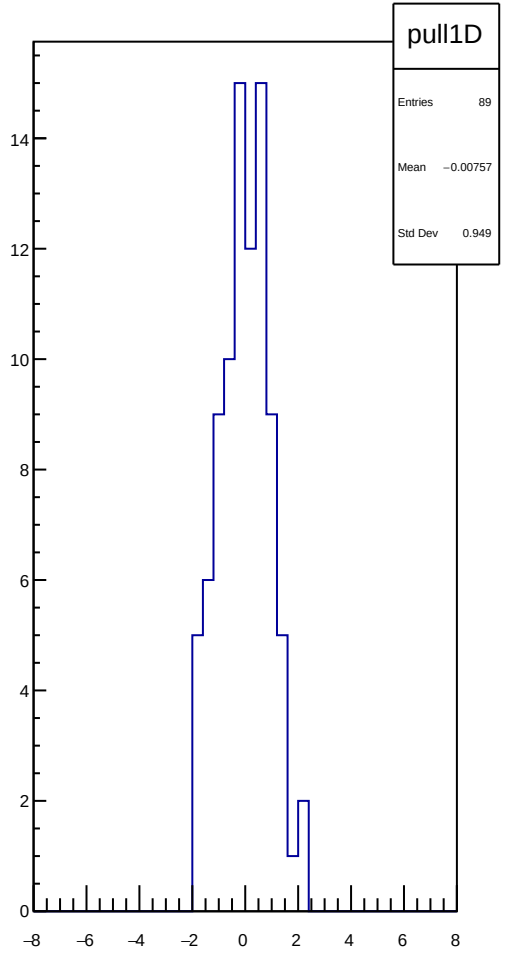

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1444 / 88
p0 169.7 ± 0.1307
195
190
185
180
175
170
165
160

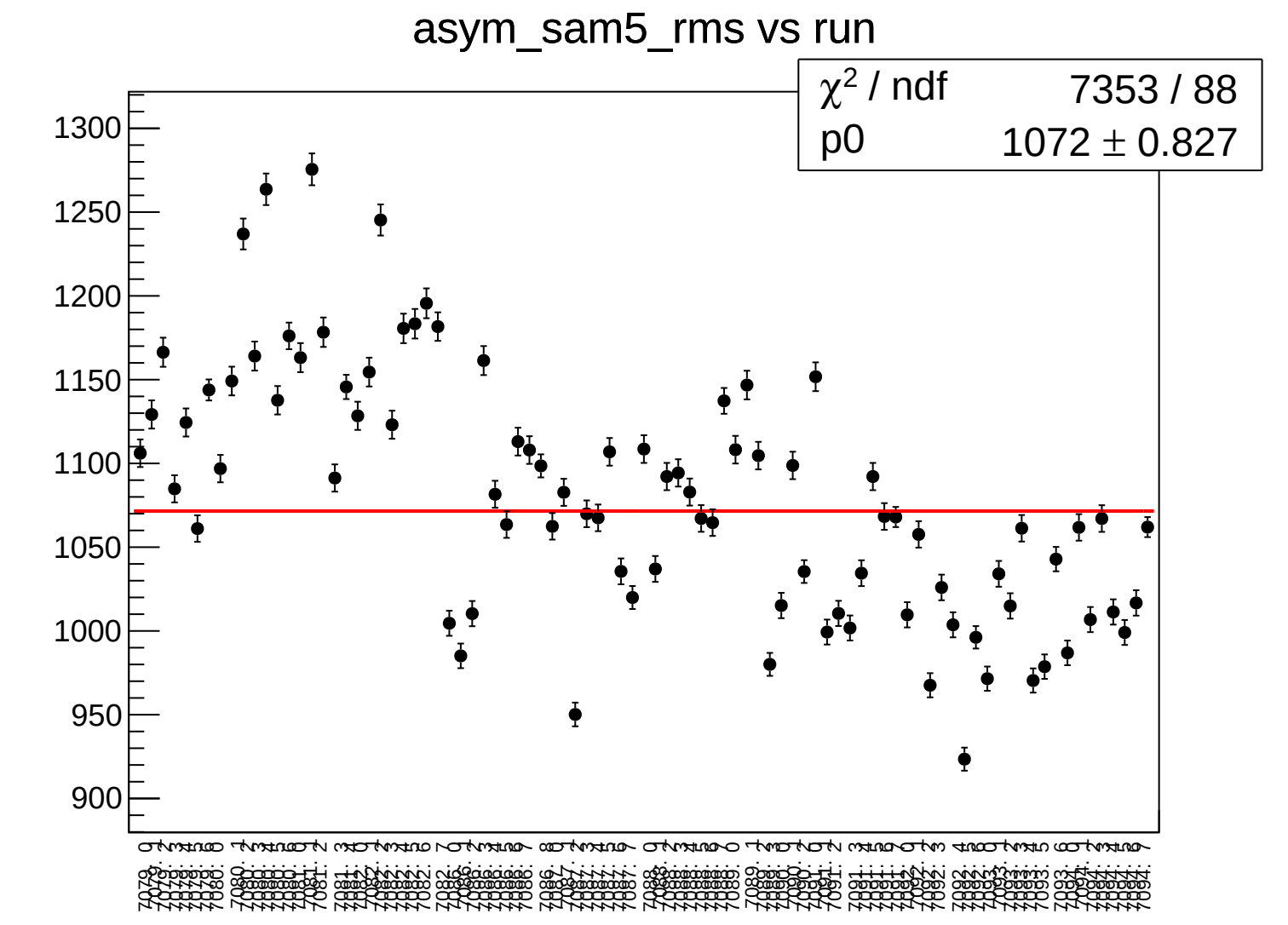

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 75.6 / 88
p0 1287 ± 1185
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −522.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

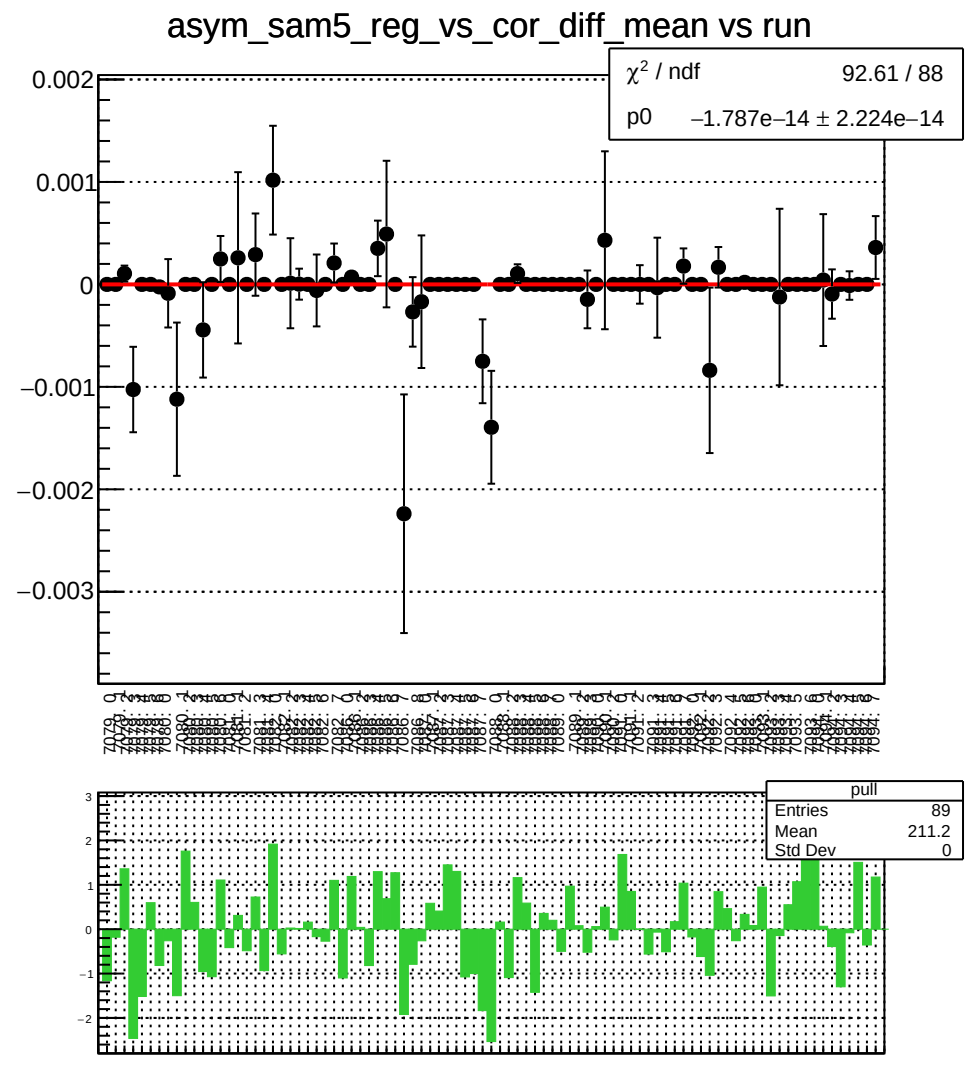

pull1D
Entries 89
Mean 0.00565
Std Dev 0.9217
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

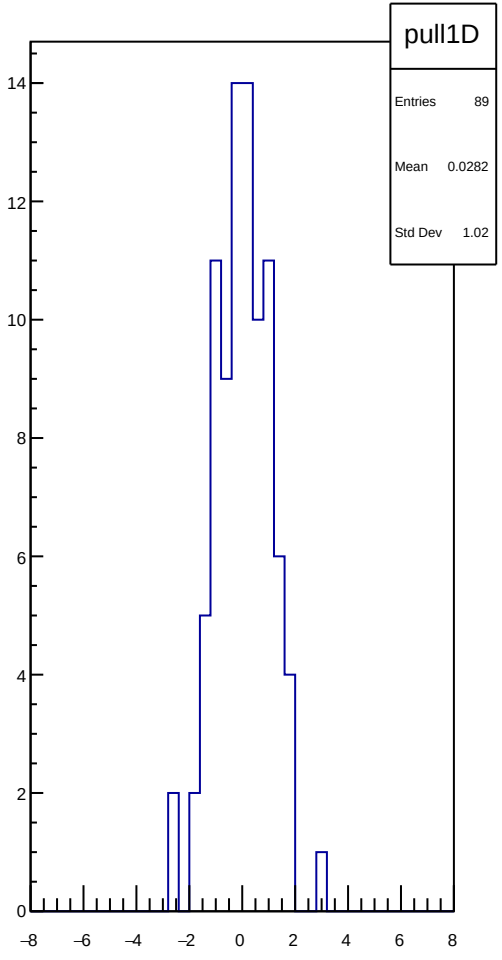

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 6610 / 88
p0 1086 ± 0.838
1300
1250
1200
1150
1100
1050
1000
950
900

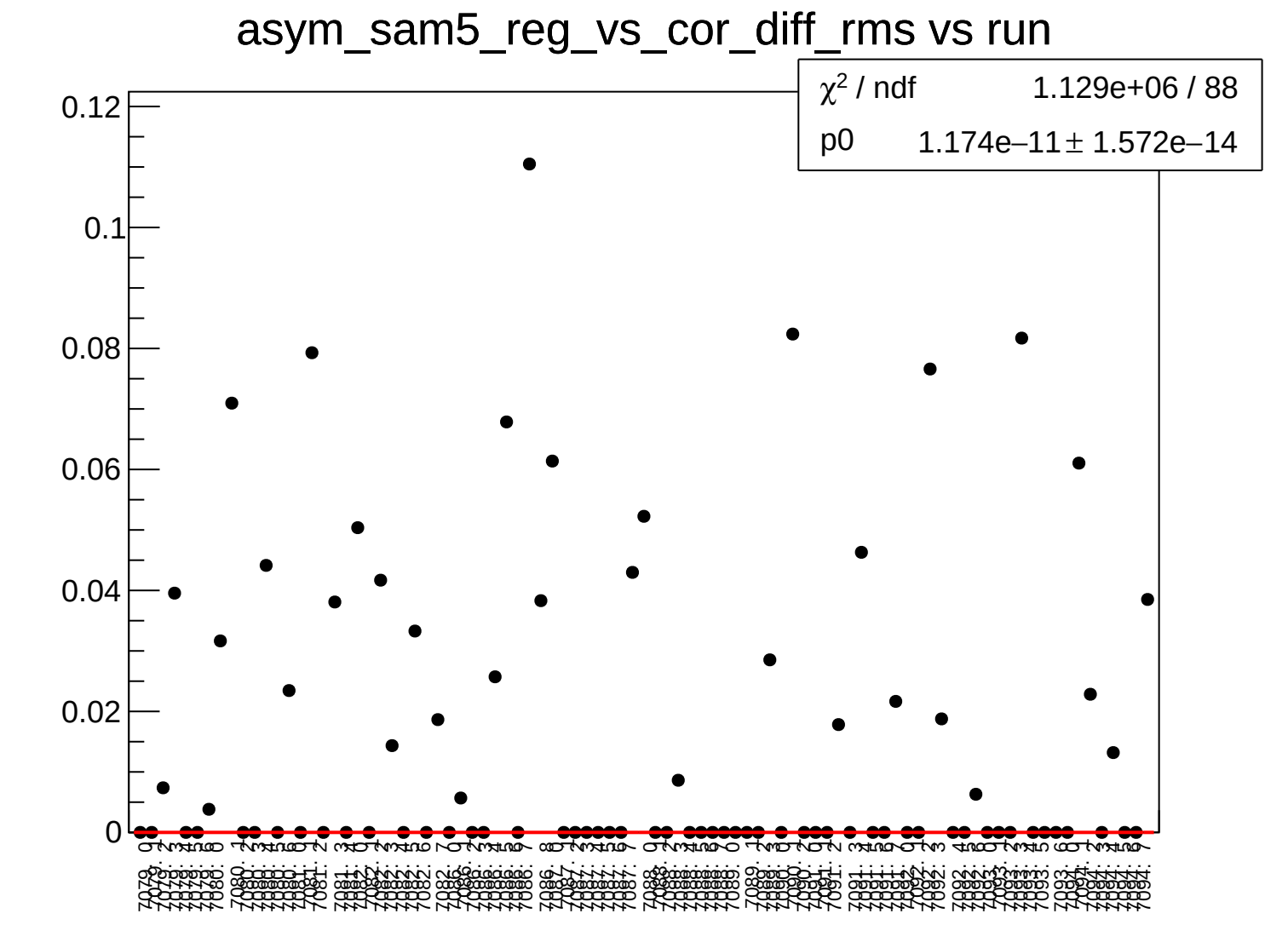

asym_sam5_mean vs run
χ² / ndf 80.16 / 88
p0 −1224 ± 1170
pull
Entries 89
Mean −455.2
Std Dev 0

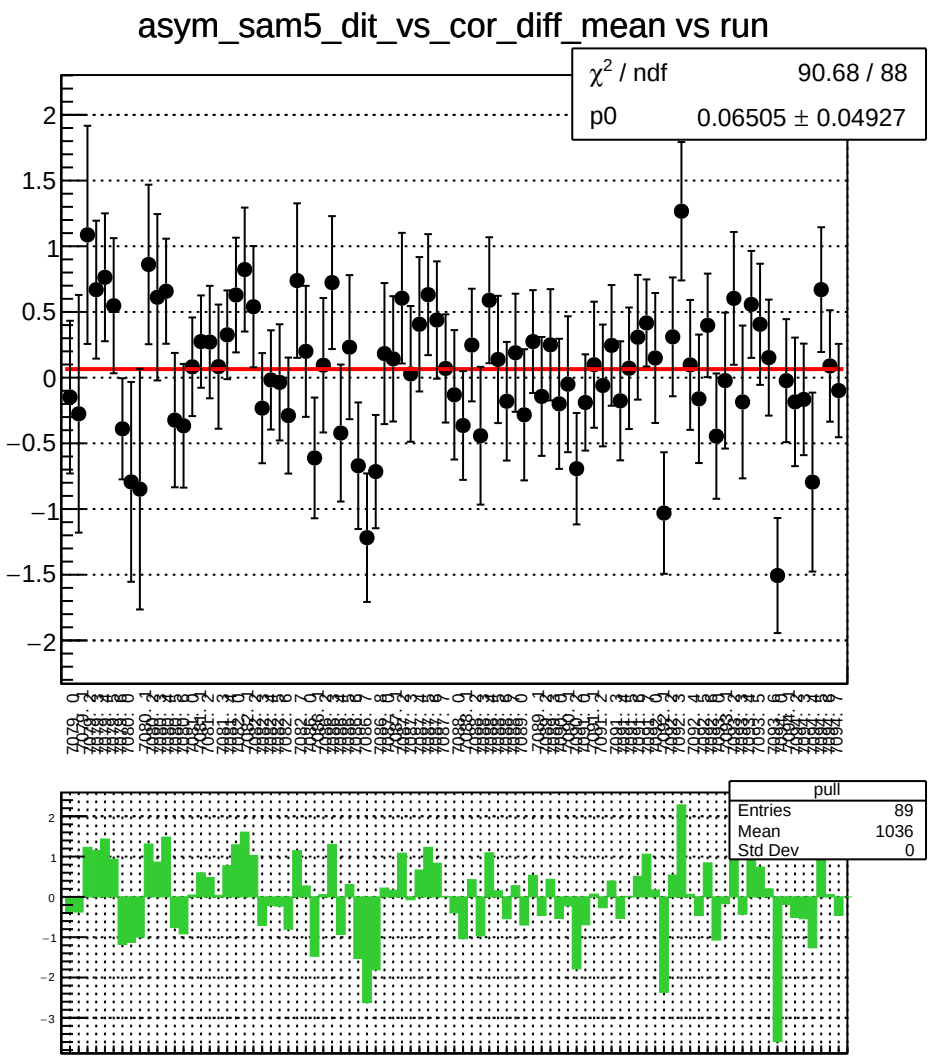

pull1D
Entries 89
Mean −0.00757
Std Dev 0.949

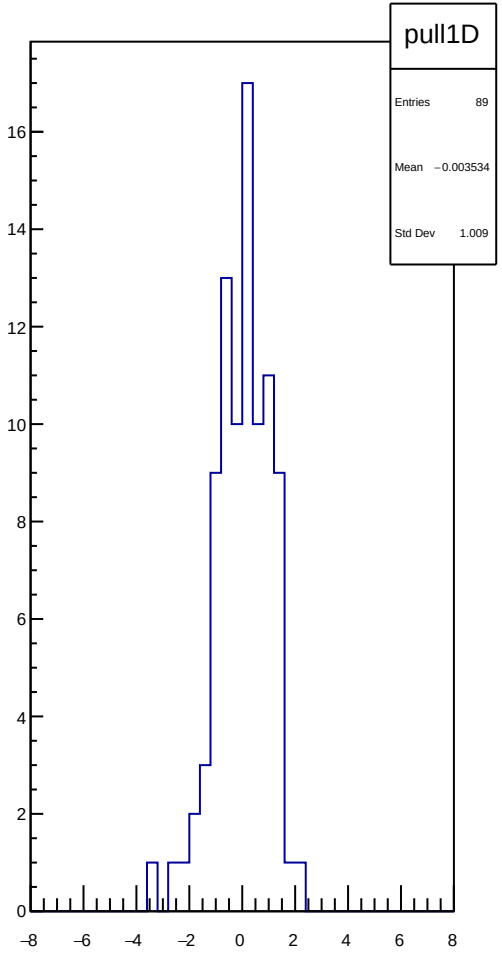

asym_sam5_rms vs run
χ² / ndf 7353 / 88
p0 1072 ± 0.827
1300
1250
1200
1150
1100
1050
1000
950
900

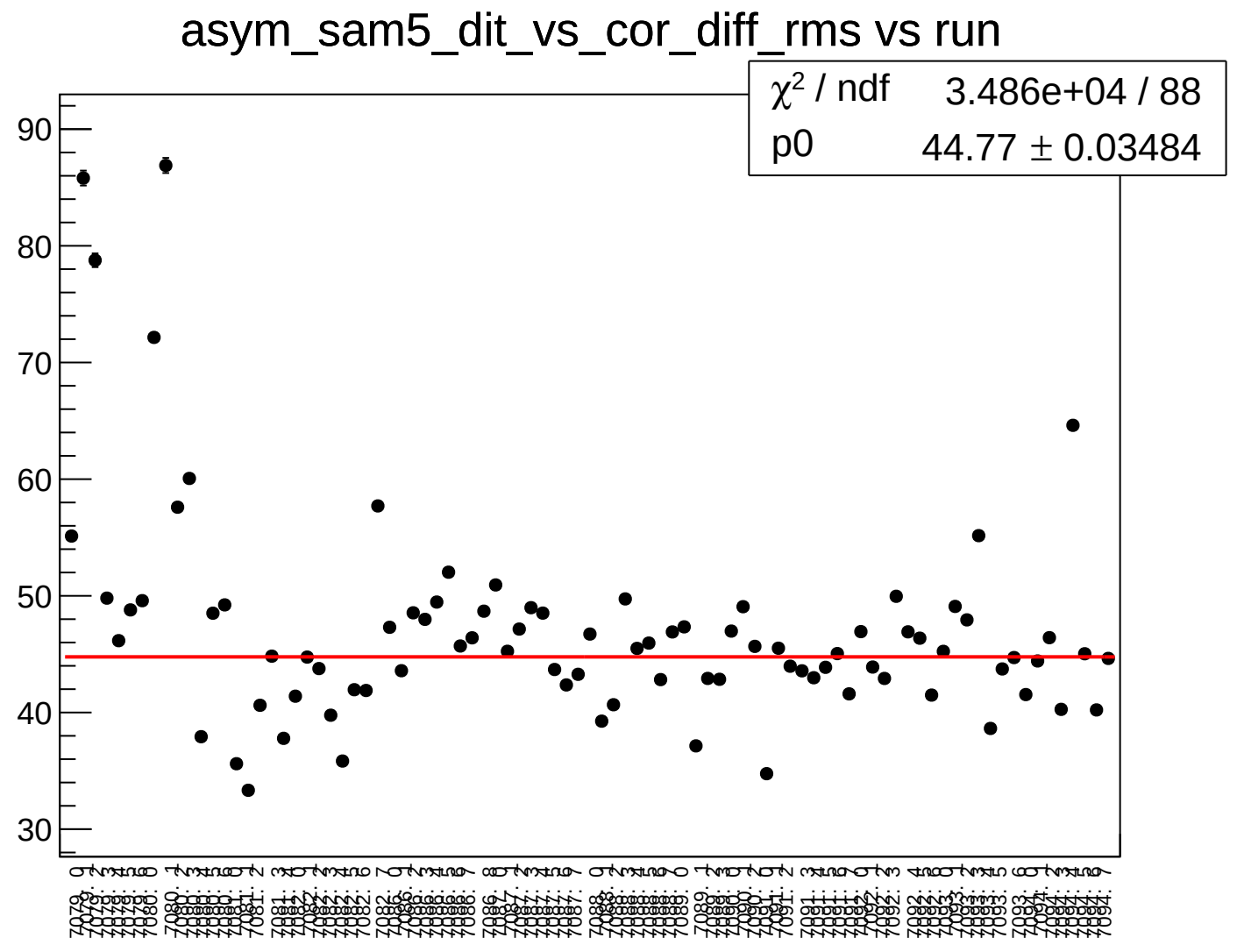

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 92.61 / 88
p0 −1.787e−14 ± 2.224e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean 211.2
Std Dev 0
3
2
1
0
−1
−2

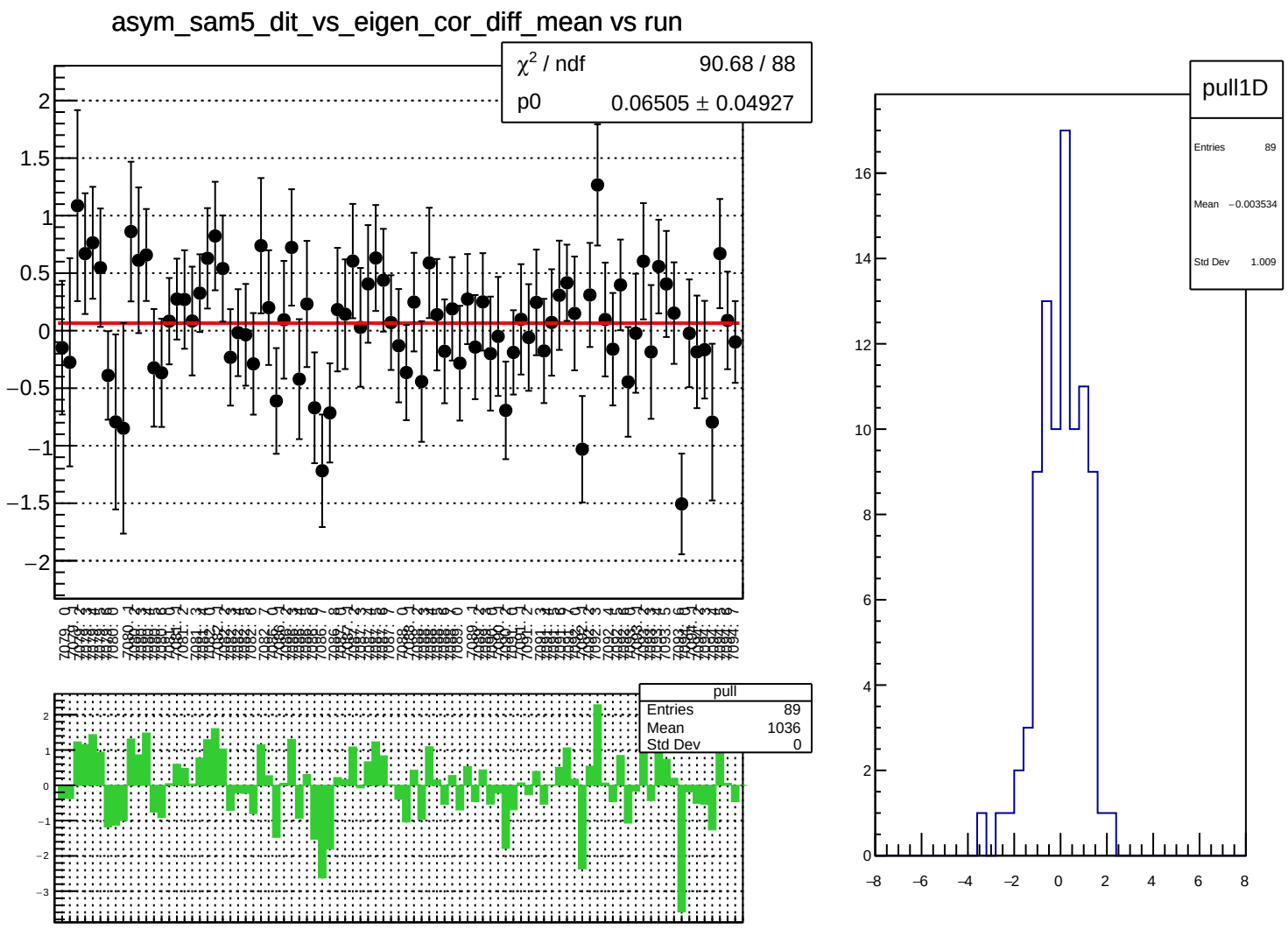

pull1D
Entries 89
Mean 0.0282
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

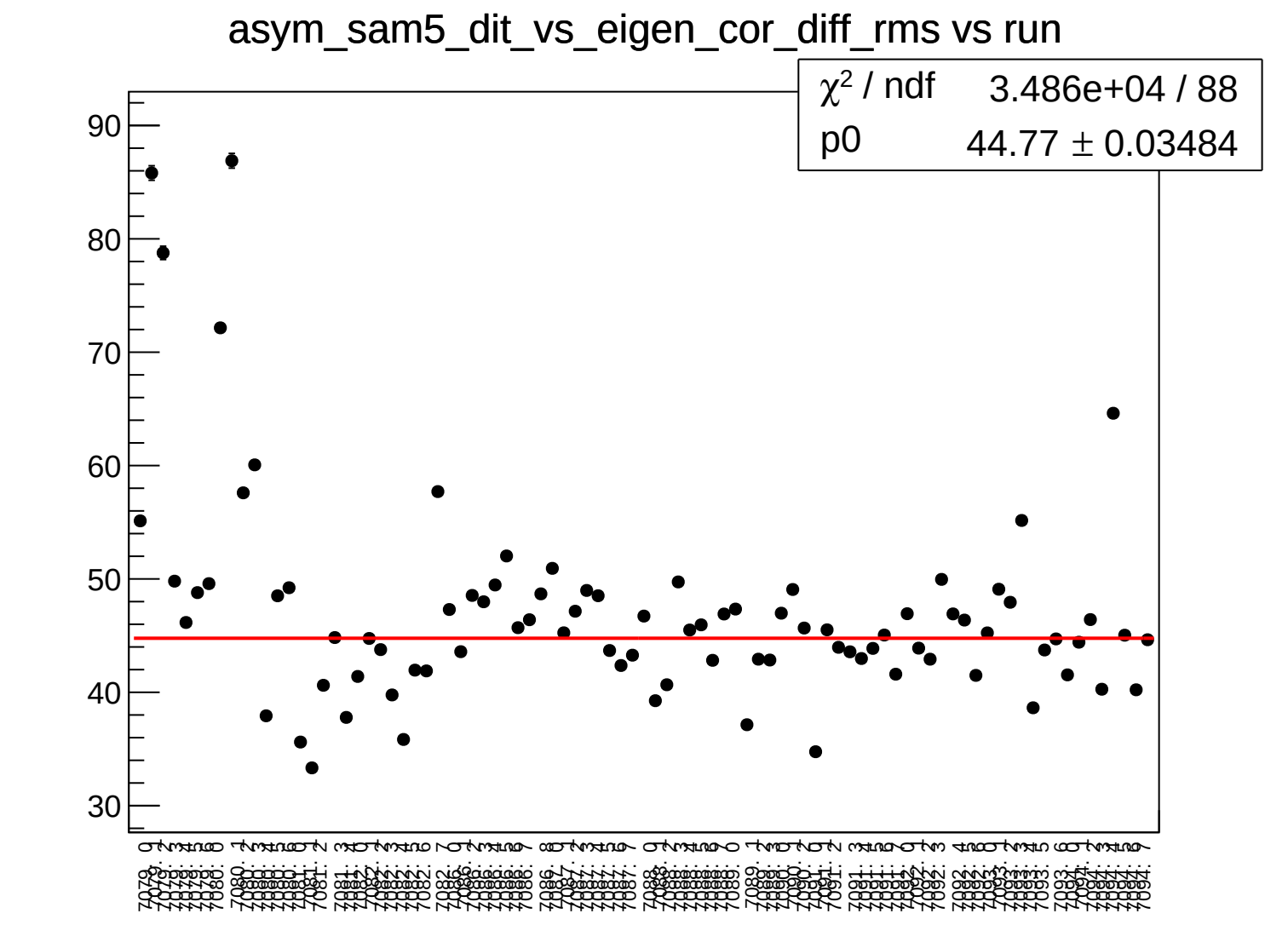

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.129e+06 / 88
p0 1.174e−11 ± 1.572e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

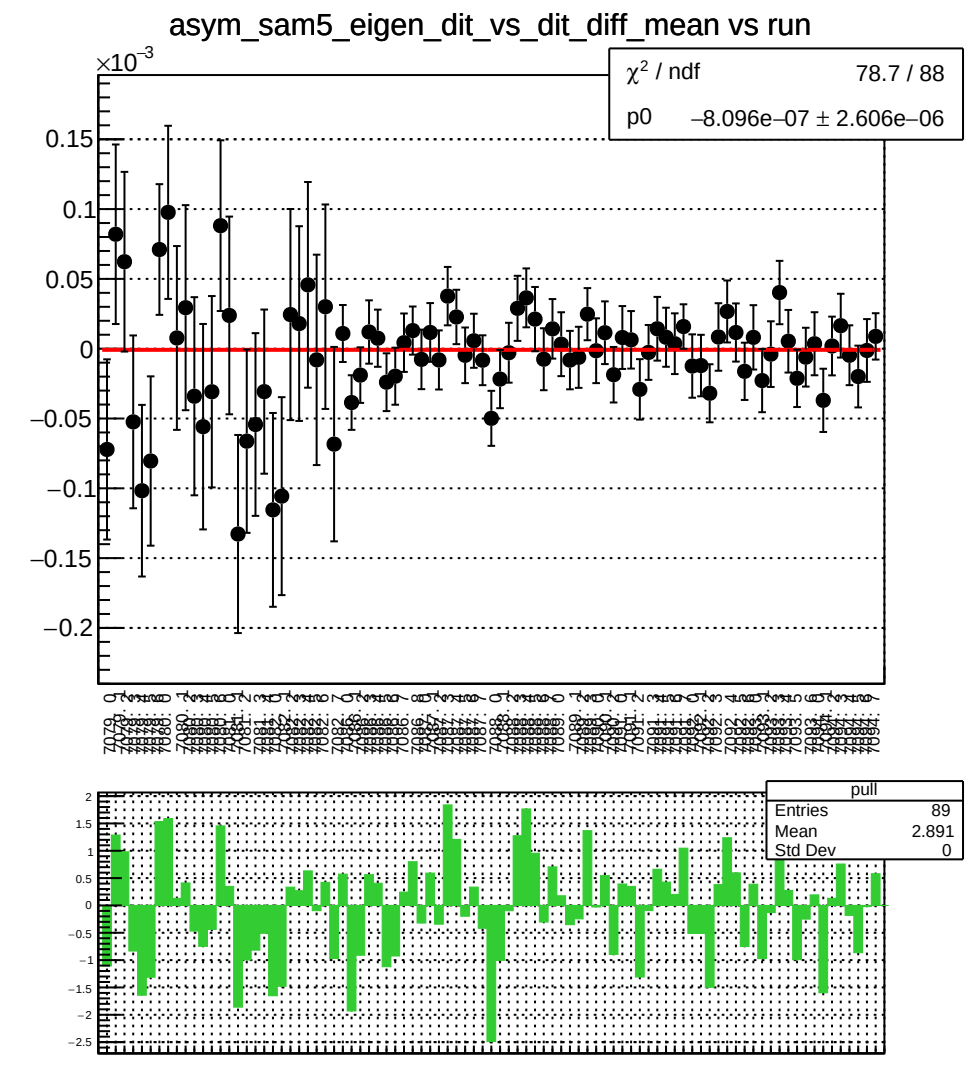

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 90.68 / 88
p0 0.06505 ± 0.04927
pull
Entries 89
Mean 1036
Std Dev 0

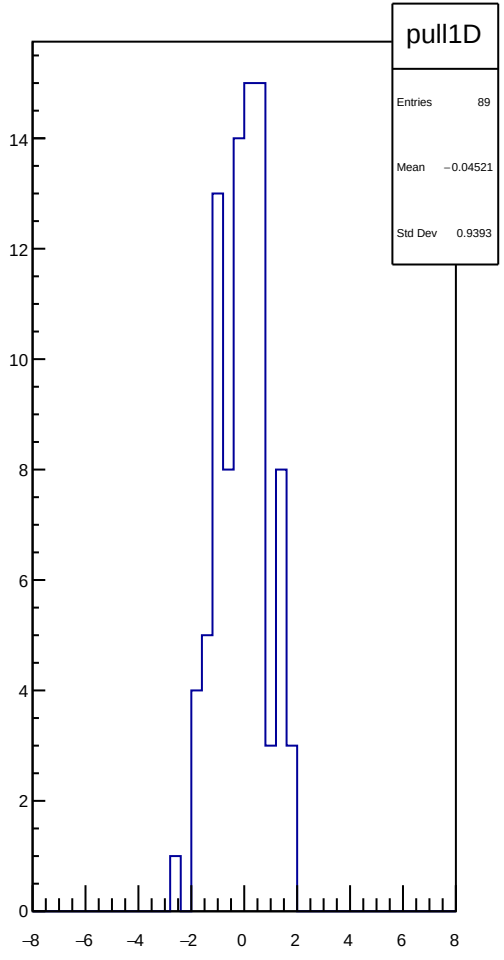

pull1D
Entries 89
Mean −0.003534
Std Dev 1.009

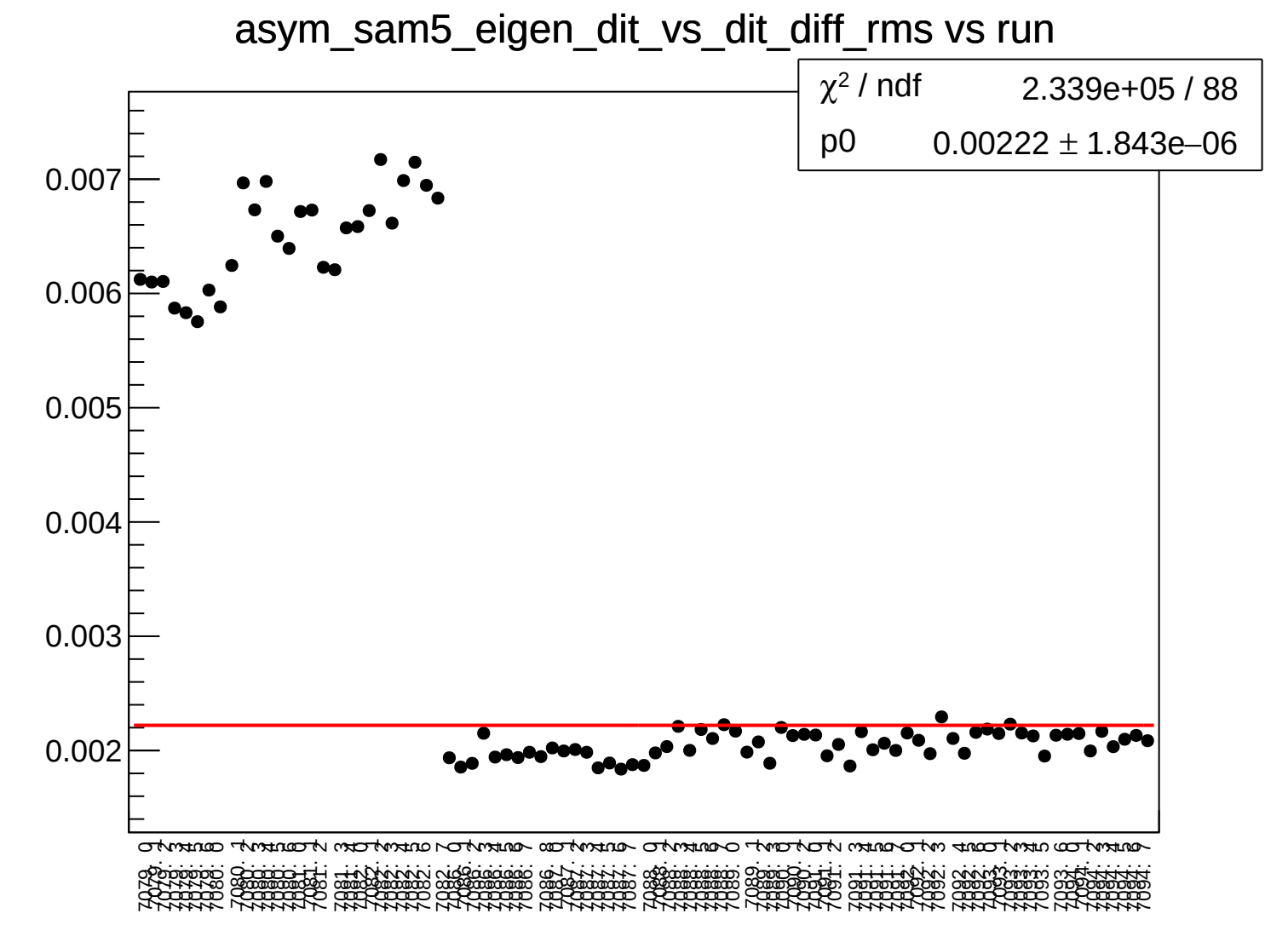

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 3.486e+04 / 88
p0 44.77 ± 0.03484
90
80
70
60
50
40
30

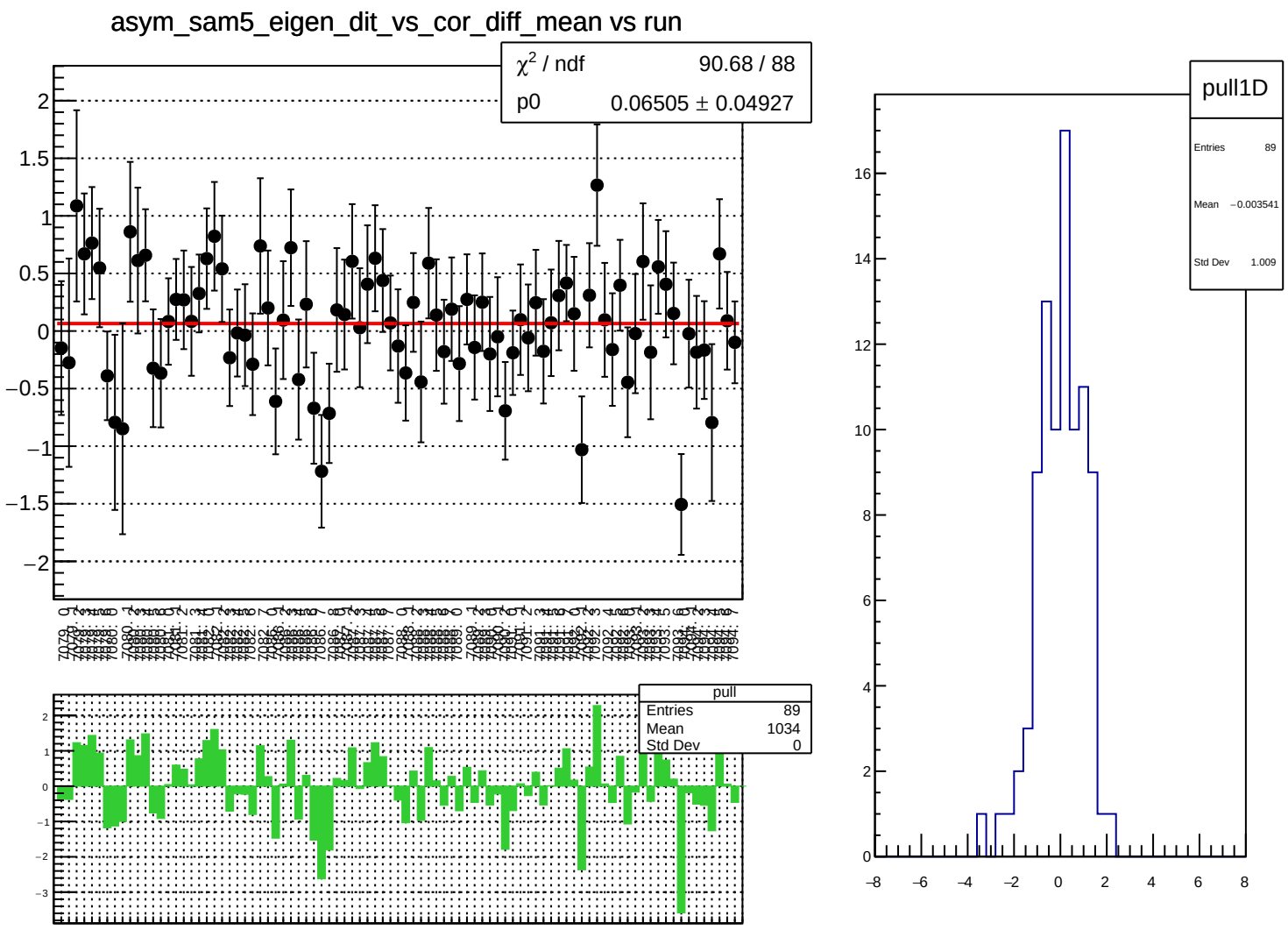

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.68 / 88
p0 0.06505 ± 0.04927
pull
Entries 89
Mean 1036
Std Dev 0
pull1D
Entries 89
Mean −0.003534
Std Dev 1.009

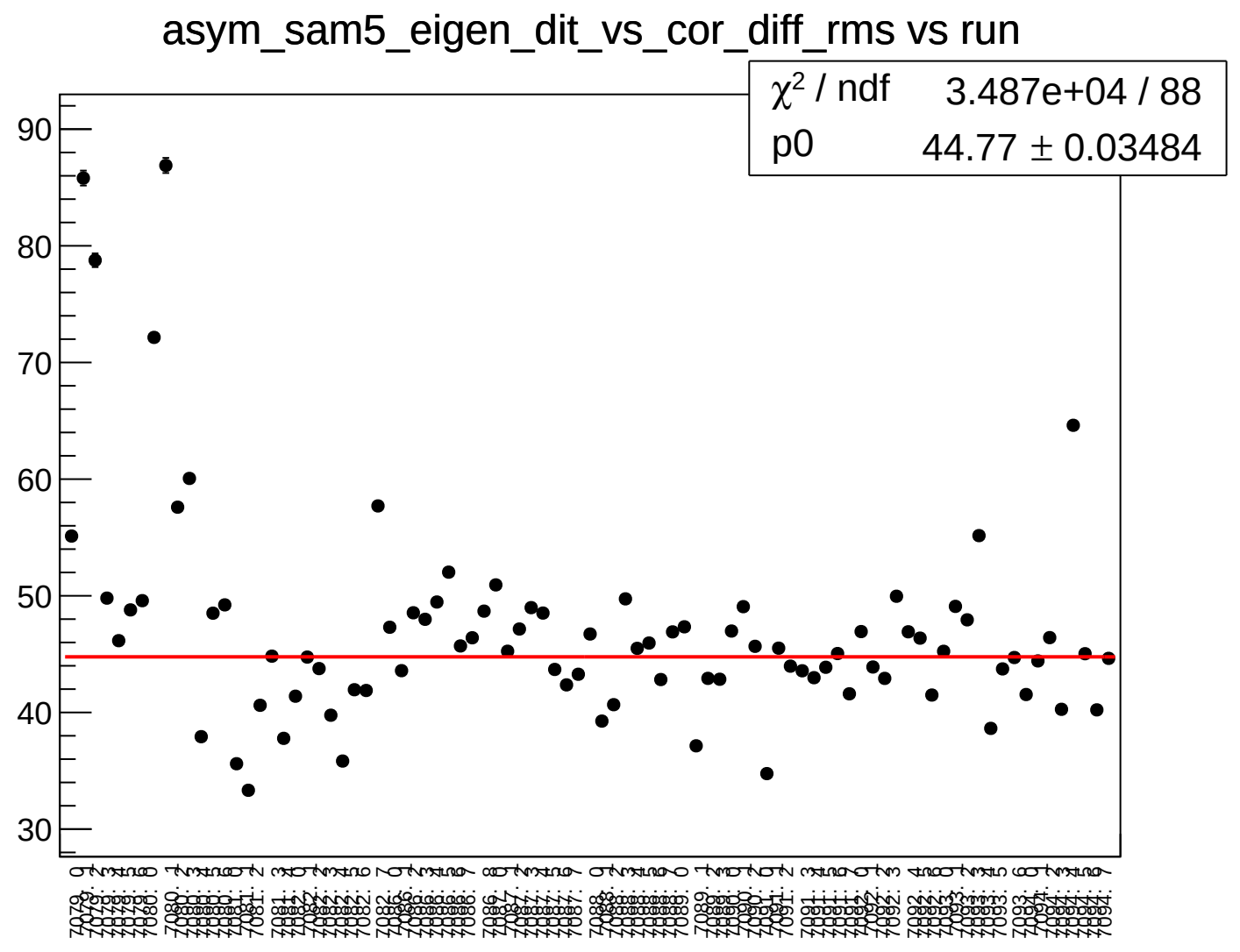

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.486e+04 / 88
p0 44.77 ± 0.03484
90
80
70
60
50
40
30

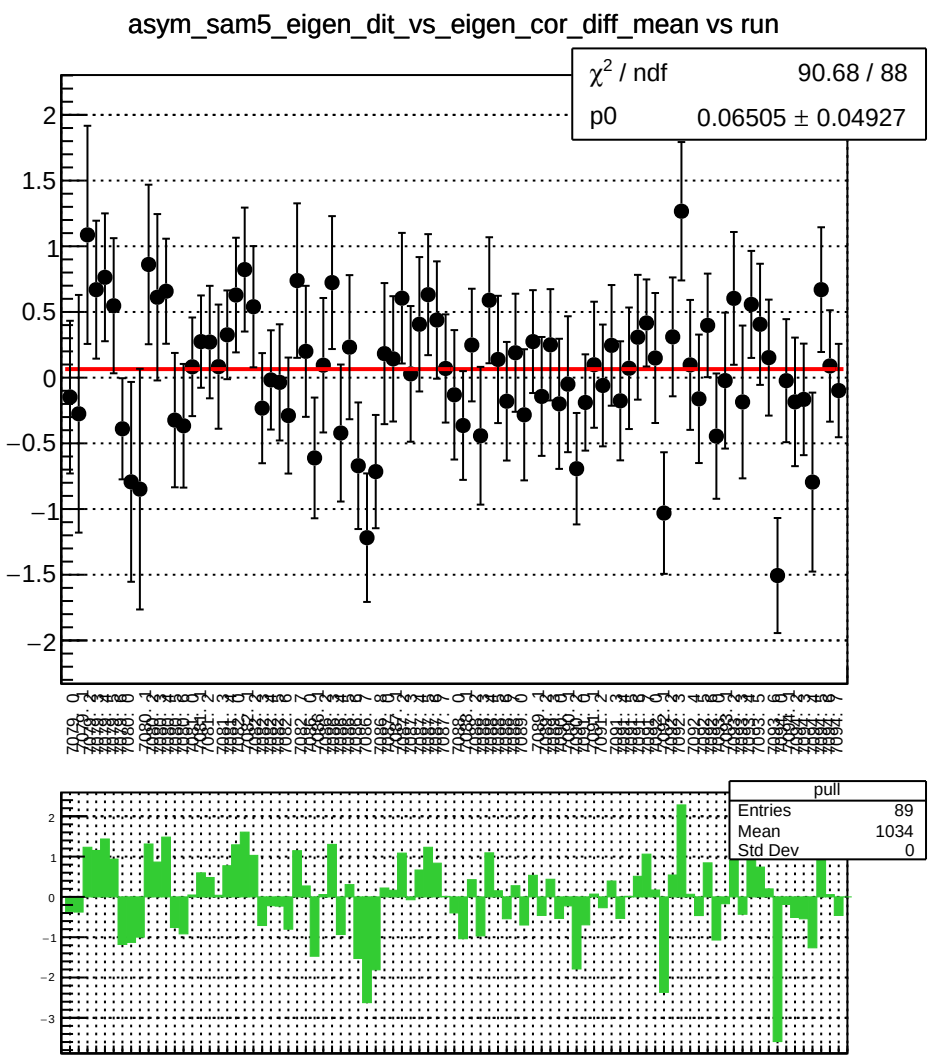

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.7 / 88
p0 −8.096e−07 ± 2.606e−06
pull
Entries 89
Mean 2.891
Std Dev 0

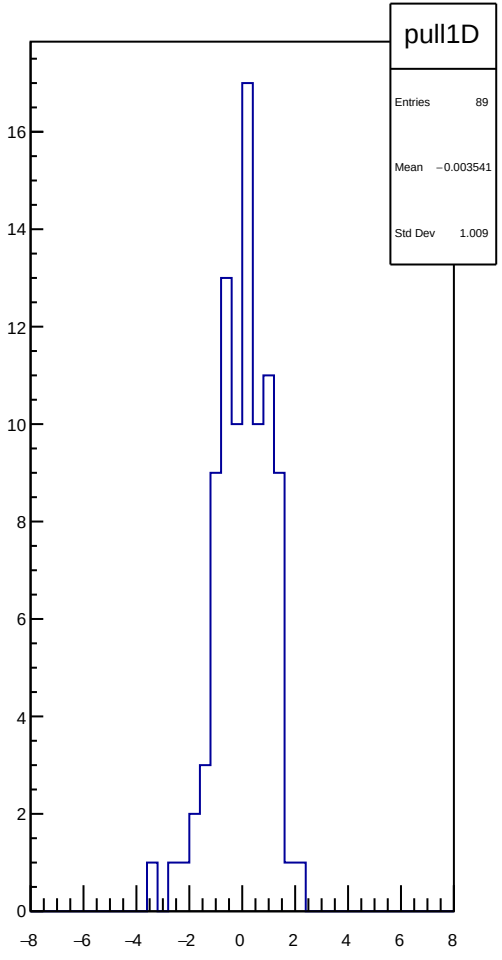

pull1D
Entries 89
Mean −0.04521
Std Dev 0.9393

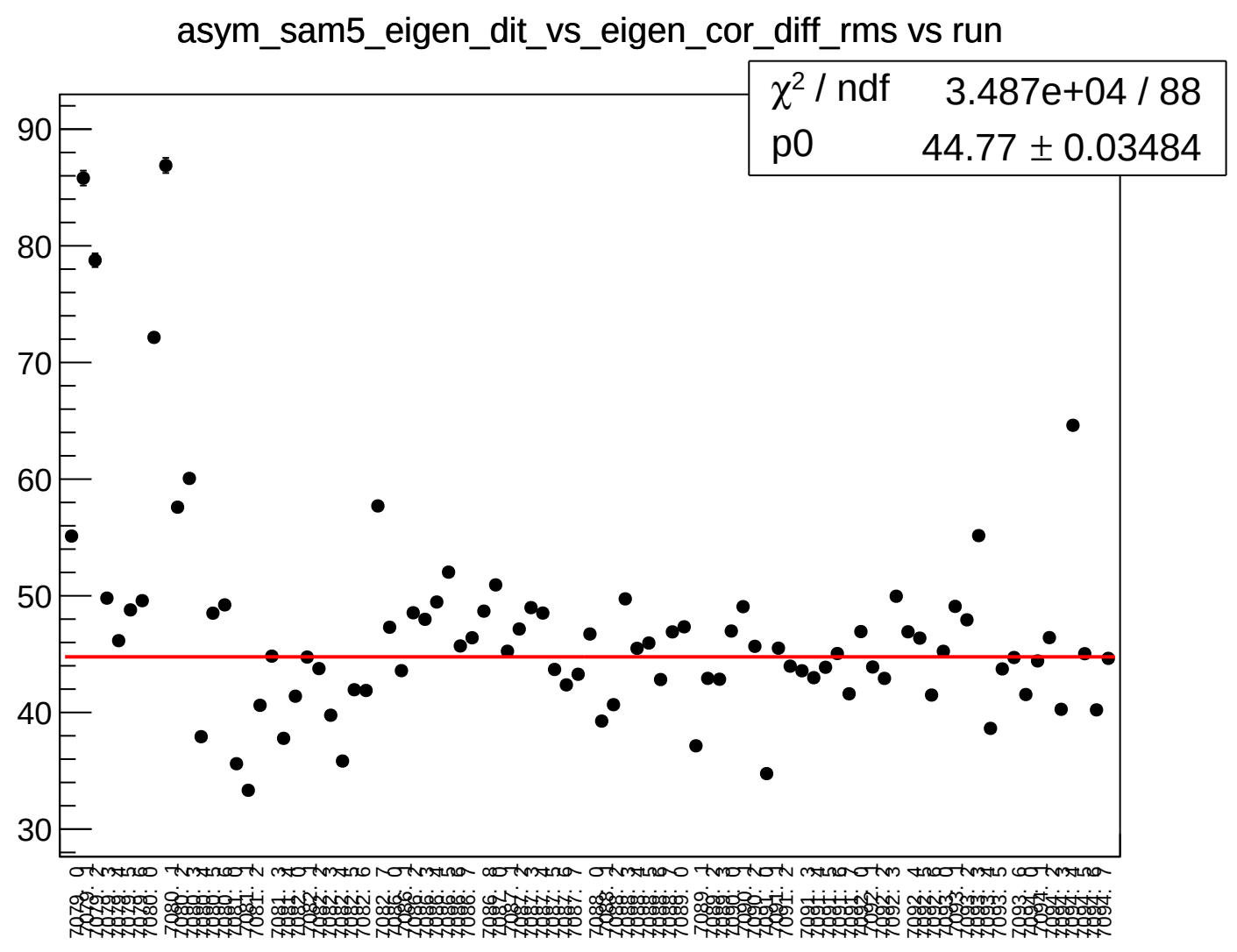

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.339e+05 / 88
p0 0.00222 ± 1.843e−06
0.007
0.006
0.005
0.004
0.003
0.002

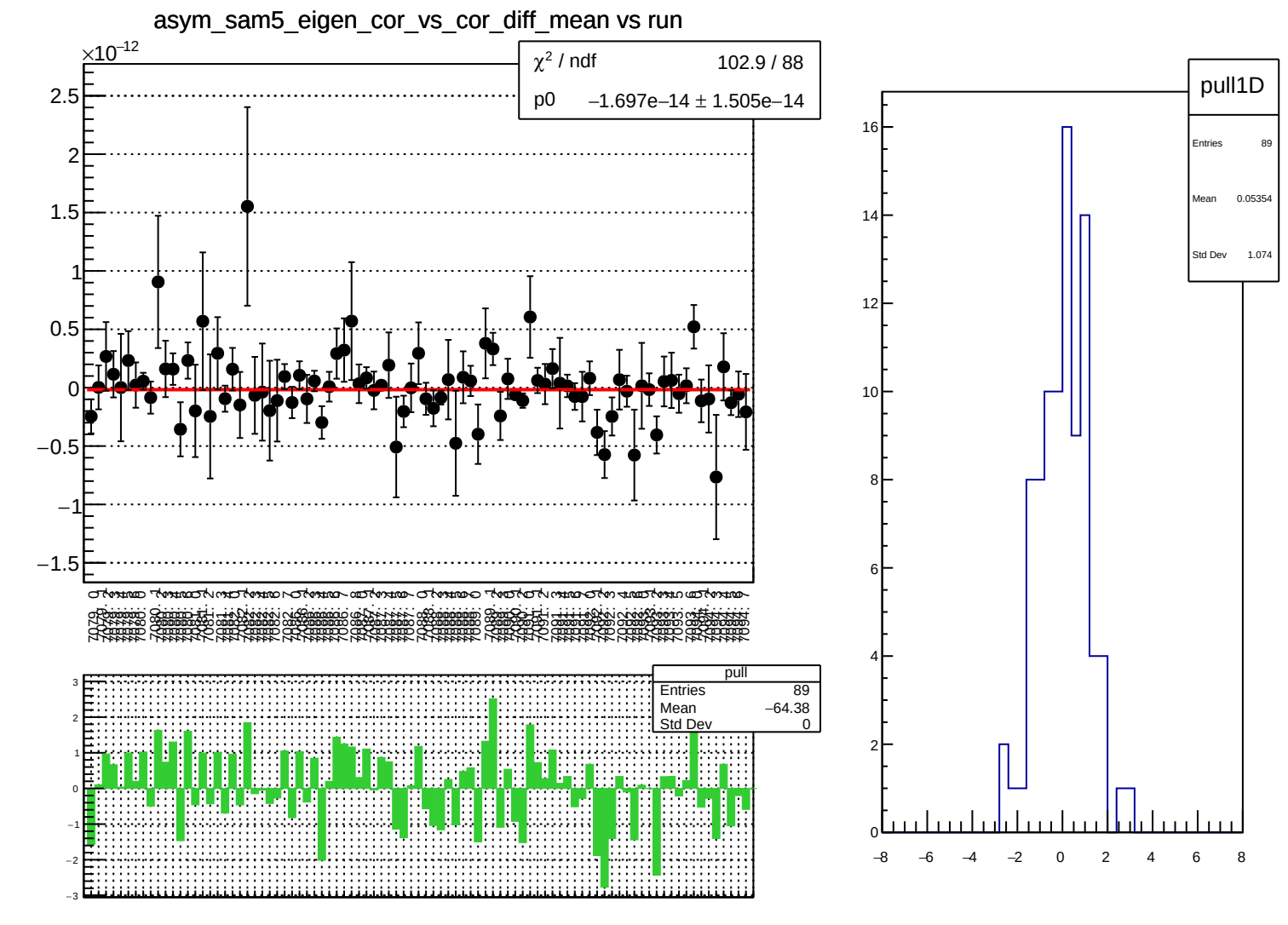

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.68 / 88
p0 0.06505 ± 0.04927
pull
Entries 89
Mean 1034
Std Dev 0
pull1D
Entries 89
Mean −0.003541
Std Dev 1.009

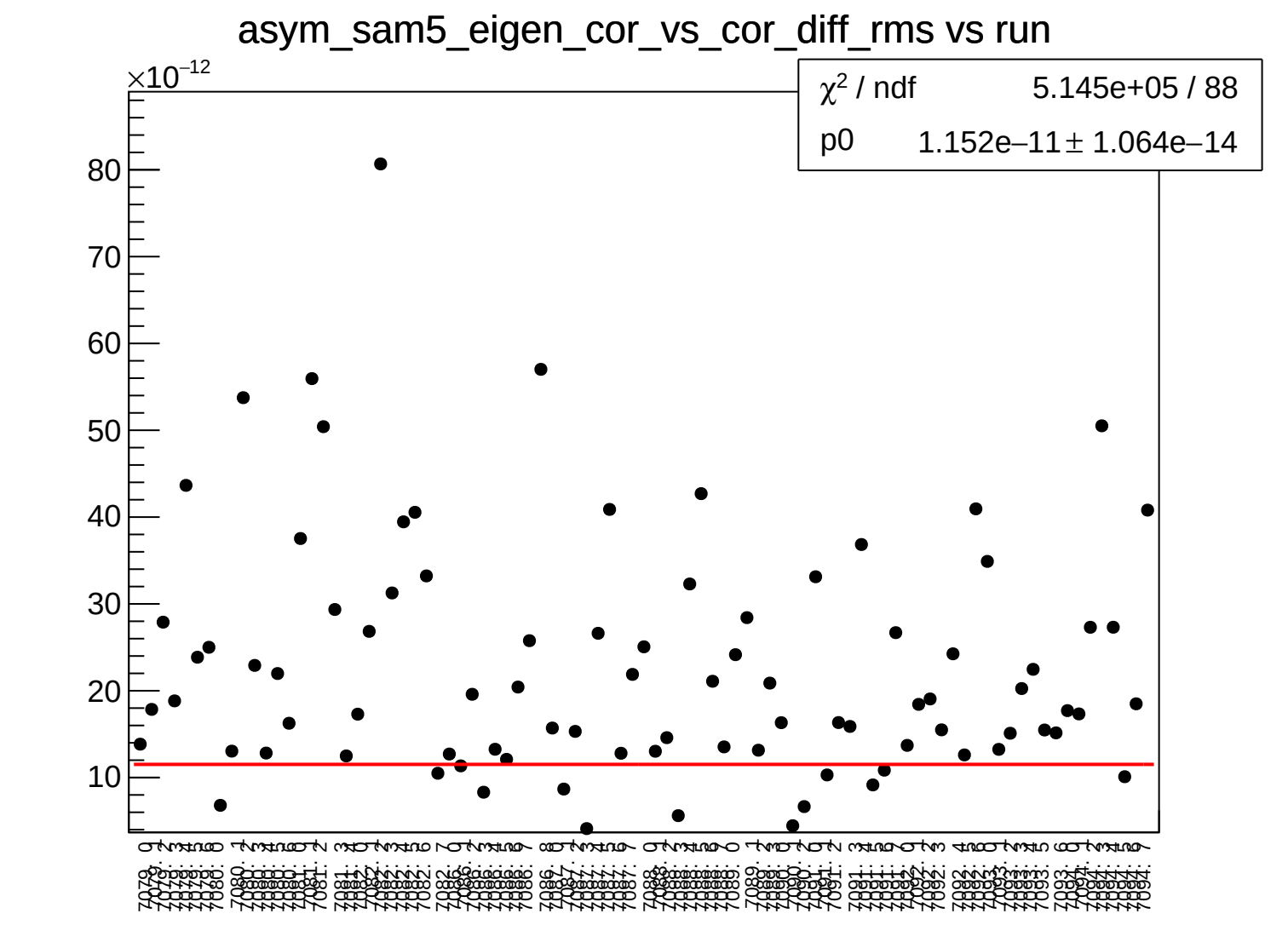

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.487e+04 / 88
p0 44.77 ± 0.03484
90
80
70
60
50
40
30

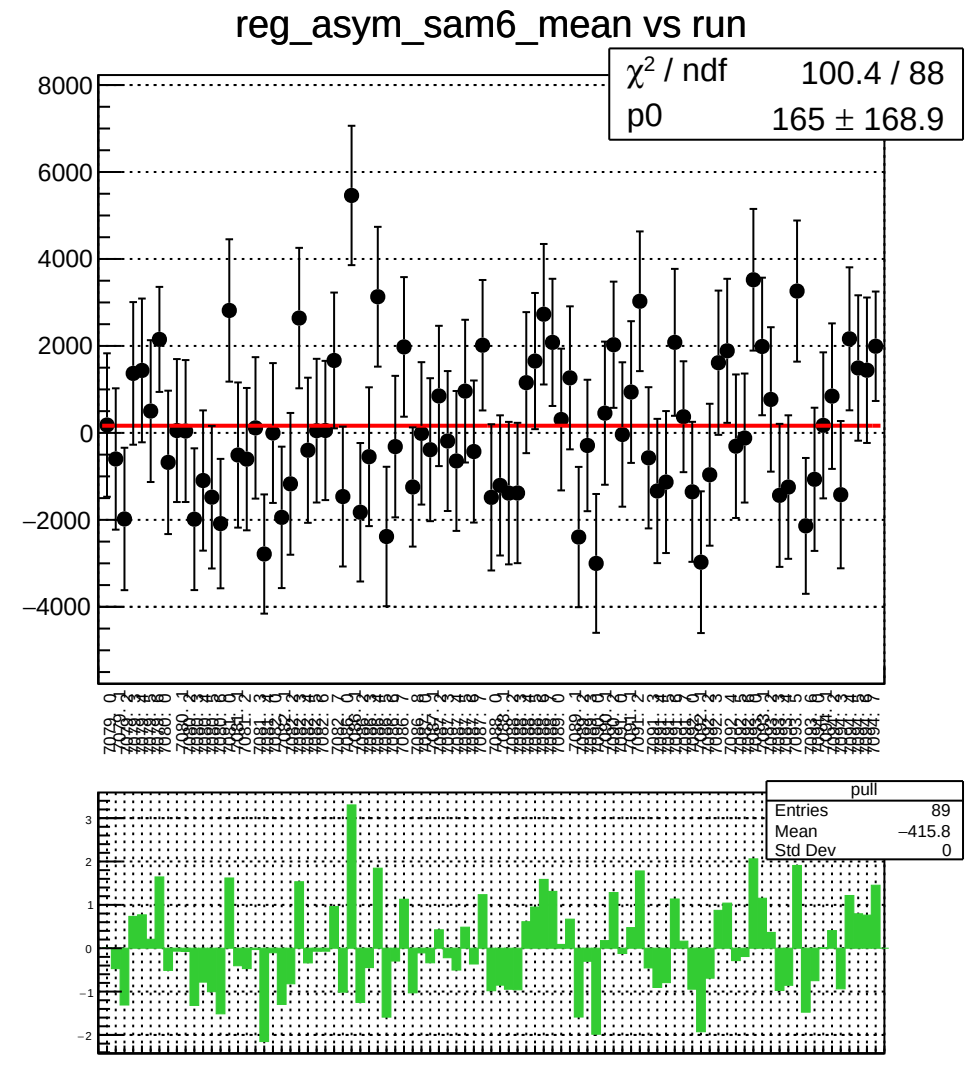

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.68 / 88
p0 0.06505 ± 0.04927
pull
Entries 89
Mean 1034
Std Dev 0

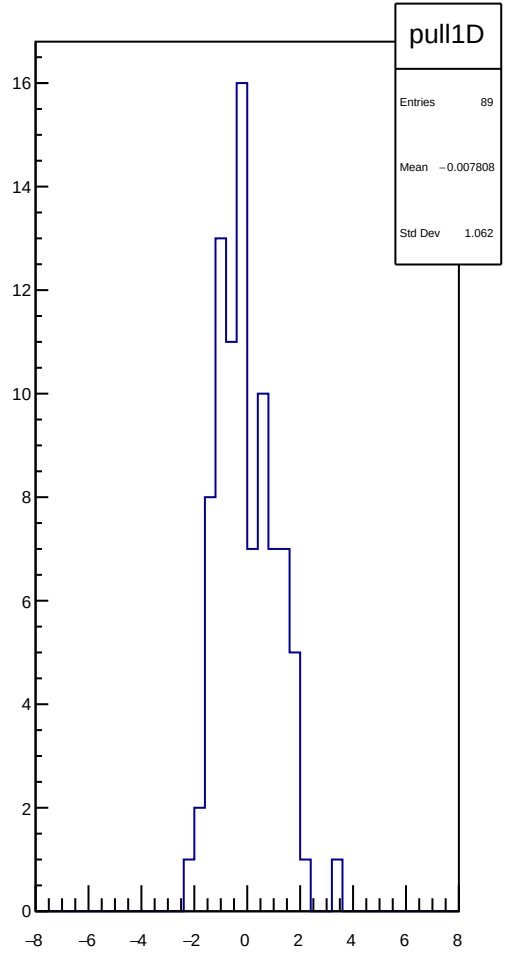

pull1D
Entries 89
Mean −0.003541
Std Dev 1.009

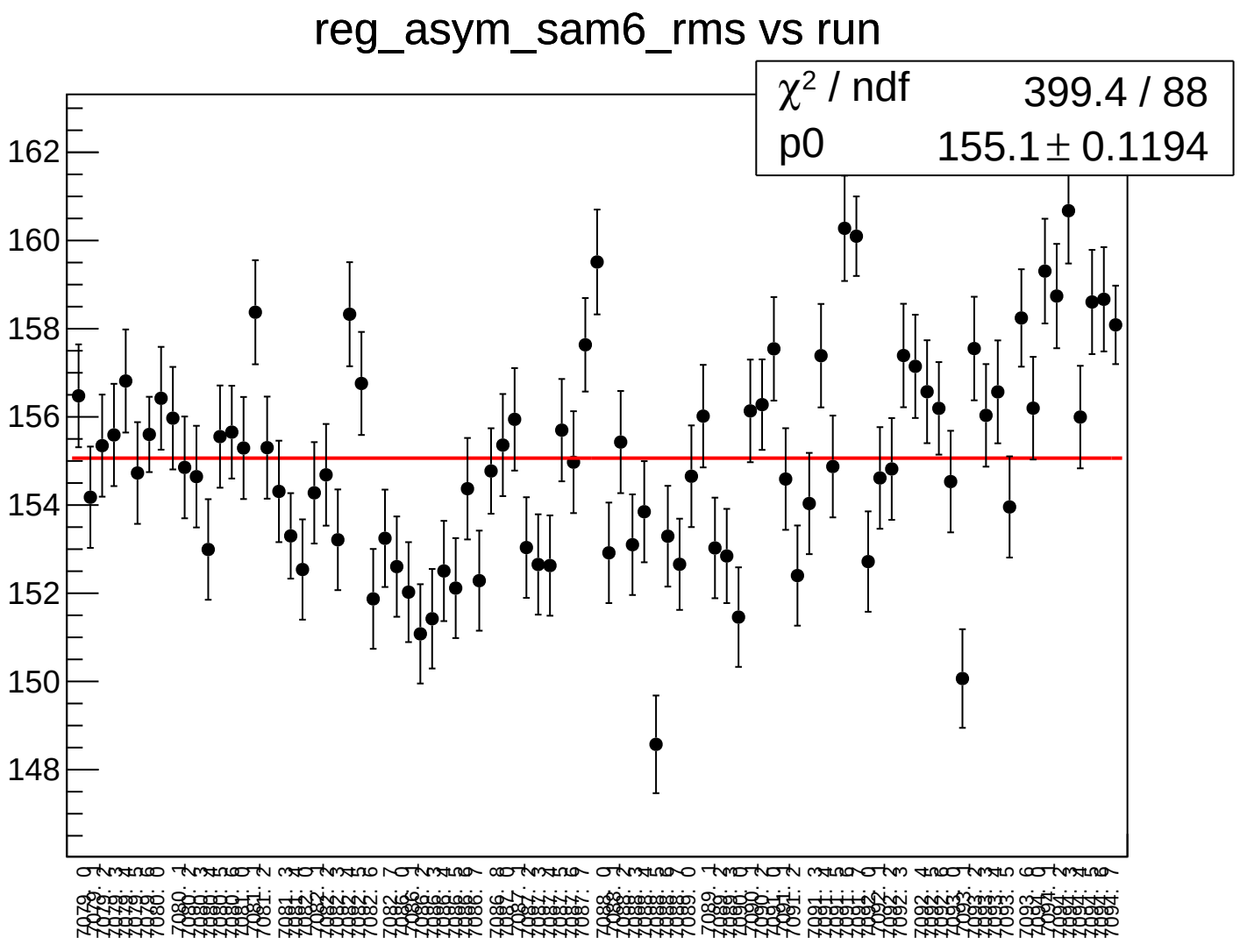

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.487e+04 / 88
p0 44.77 ± 0.03484
90
80
70
60
50
40
30

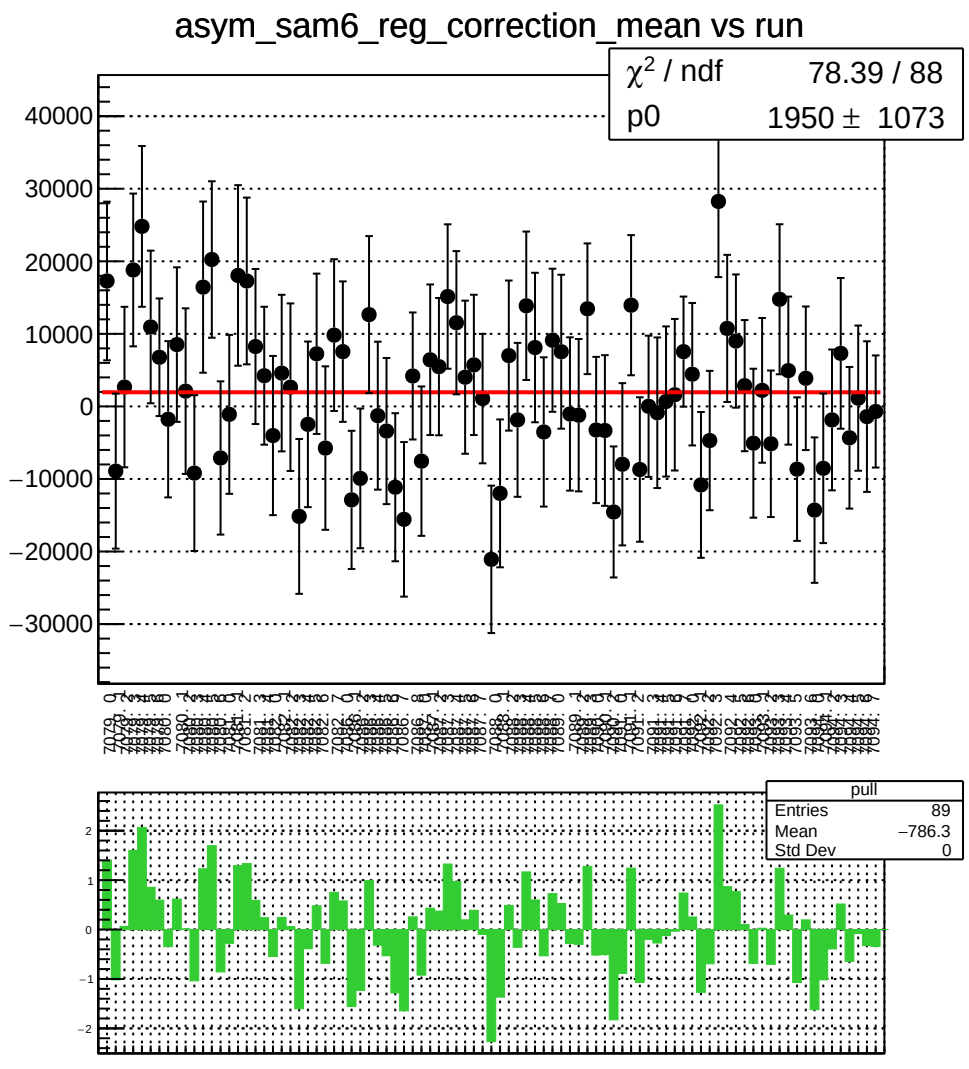

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 88
p0 −1.697e−14 ± 1.505e−14
×10⁻¹²
pull
Entries 89
Mean −64.38
Std Dev 0
pull1D
Entries 89
Mean 0.05354
Std Dev 1.074

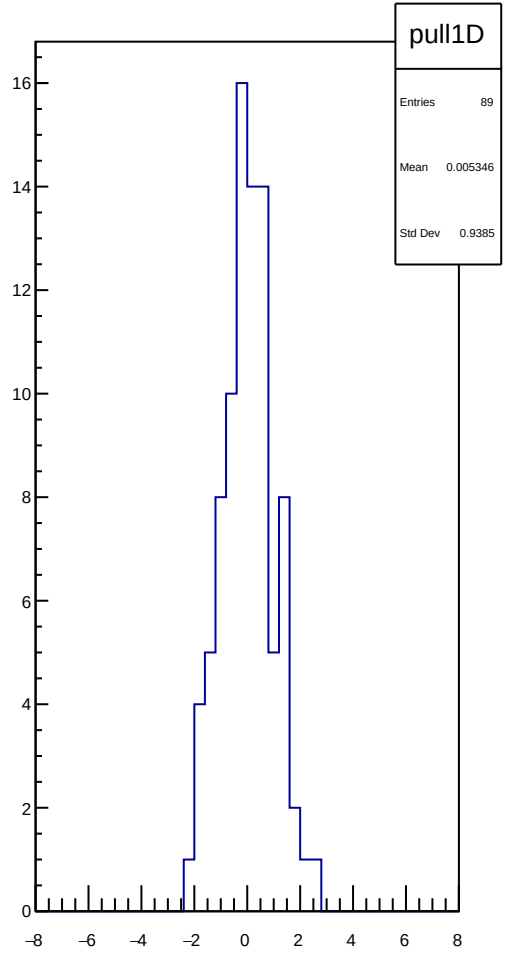

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.145e+05 / 88
p0 1.152e−11 ± 1.064e−14
80
70
60
50
40
30
20
10

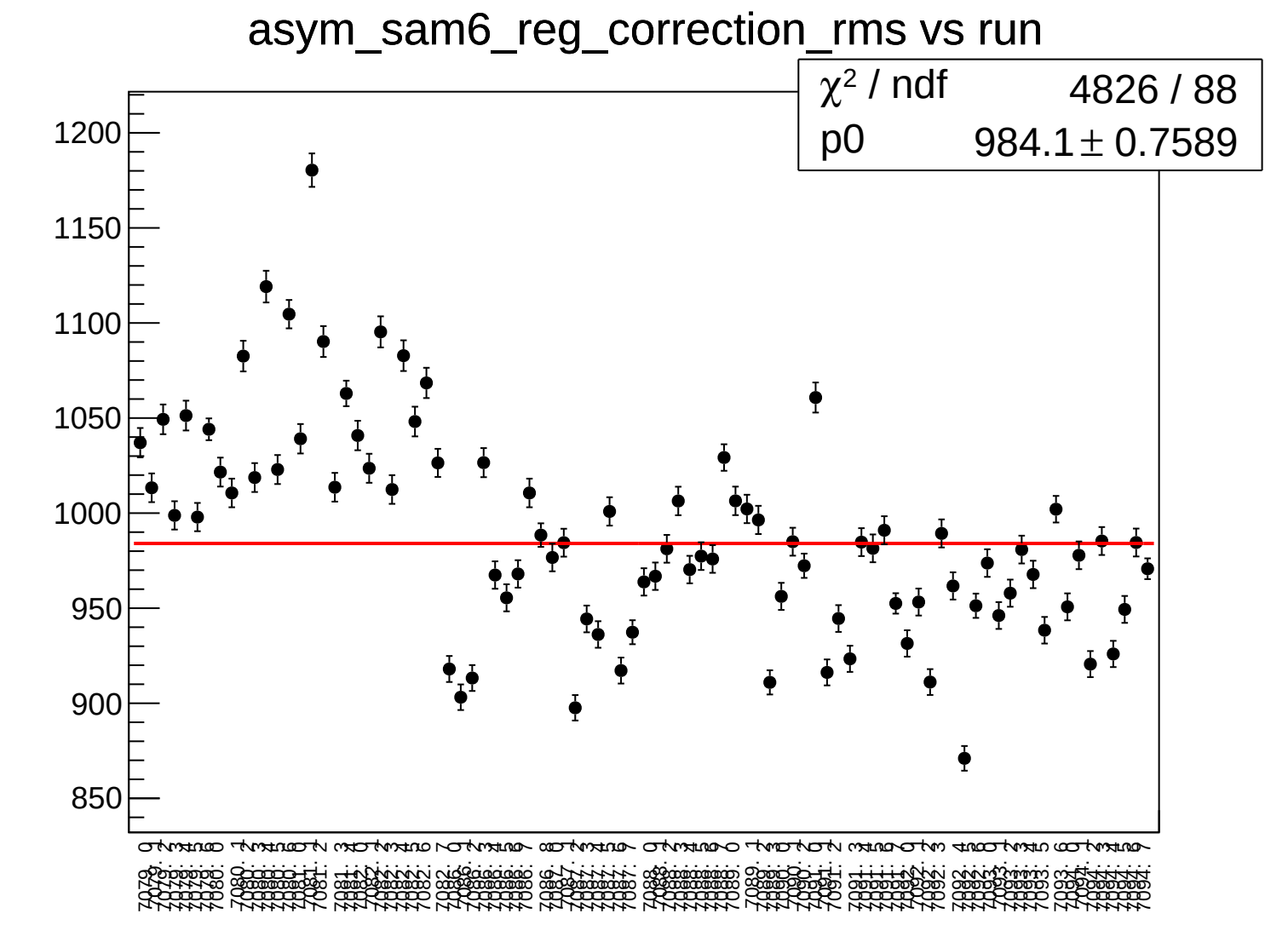

reg_asym_sam6_mean vs run
χ² / ndf 100.4 / 88
p0 165 ± 168.9
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −415.8
Std Dev 0
3
2
1
0
−1
−2

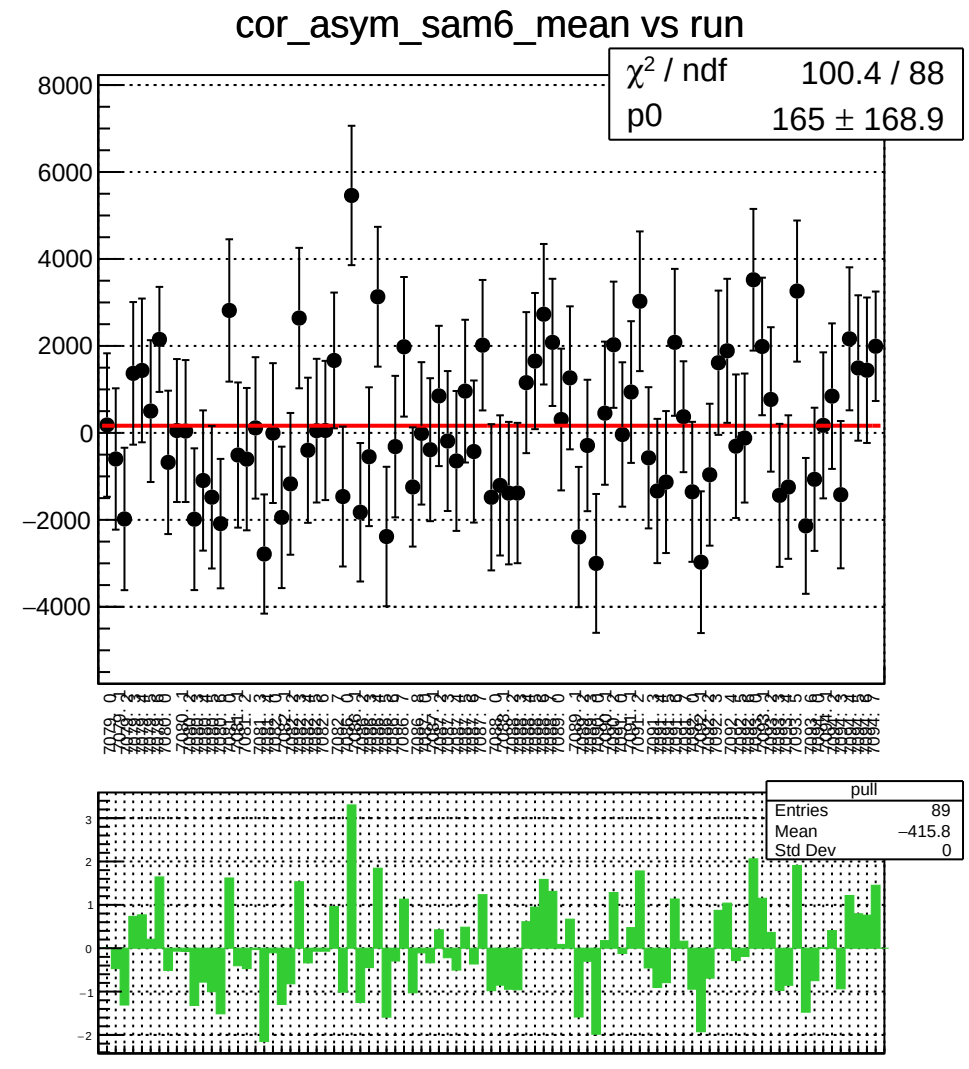

pull1D
Entries 89
Mean −0.007808
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

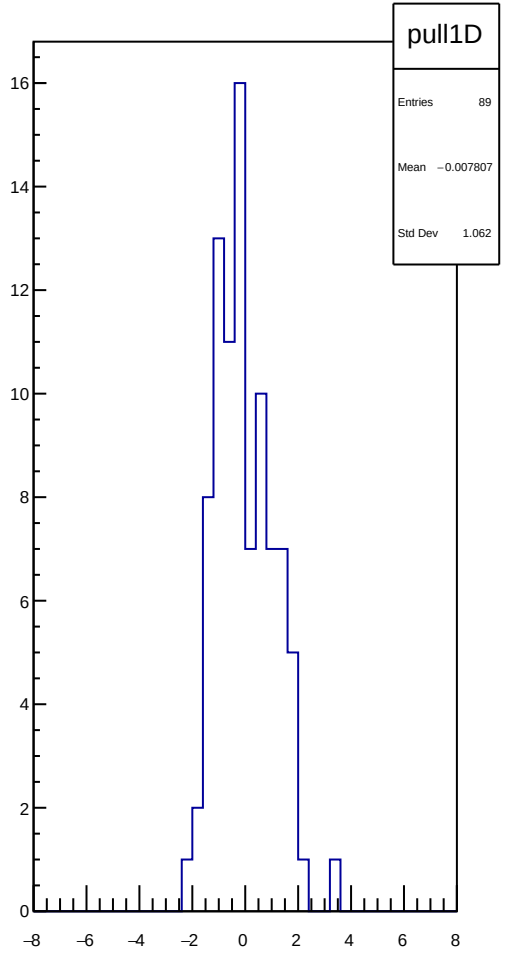

reg_asym_sam6_rms vs run
χ² / ndf 399.4 / 88
p0 155.1 ± 0.1194
162
160
158
156
154
152
150
148

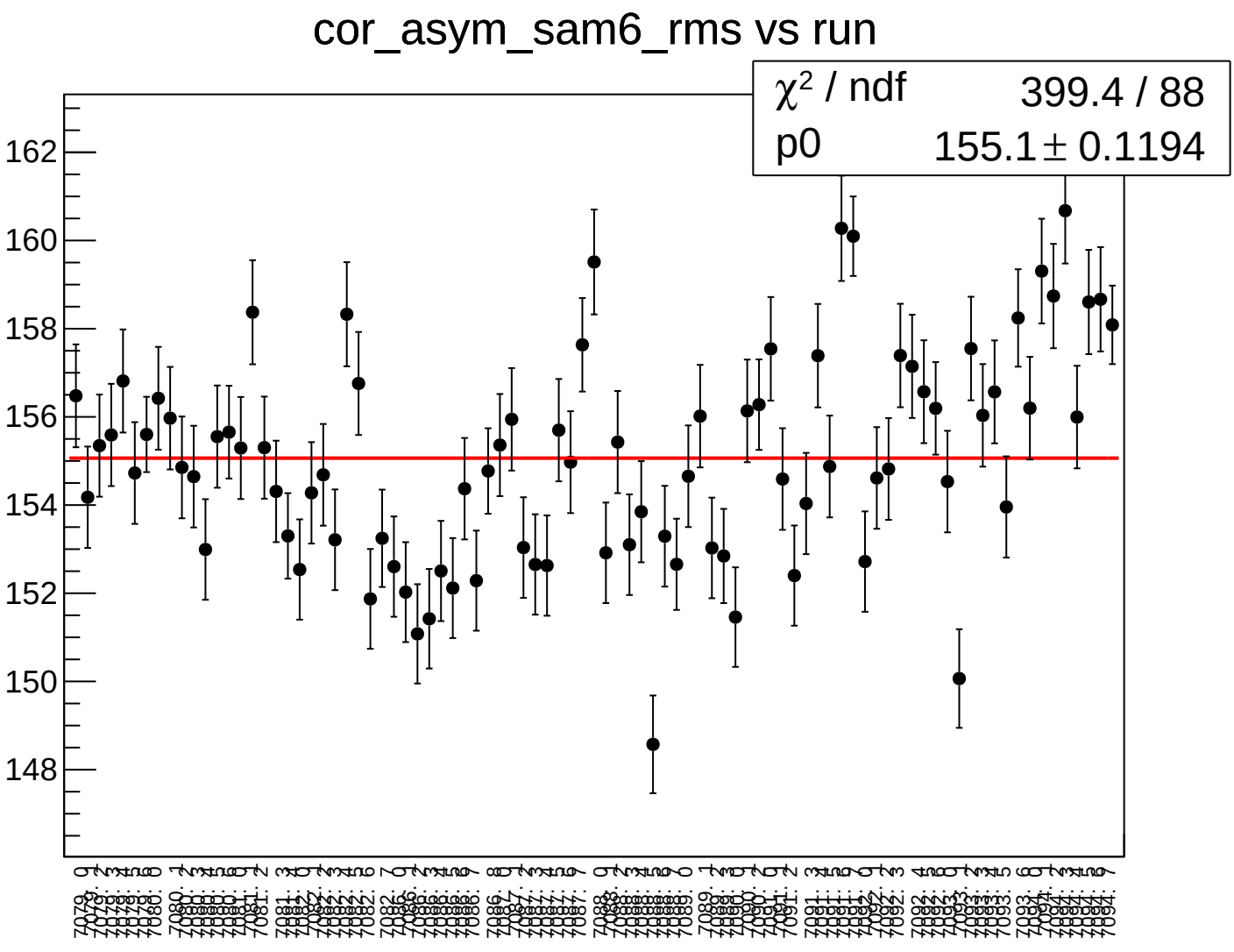

asym_sam6_reg_correction_mean vs run
χ² / ndf 78.39 / 88
p0 1950 ± 1073
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −786.3
Std Dev 0
2
1
0
−1
−2

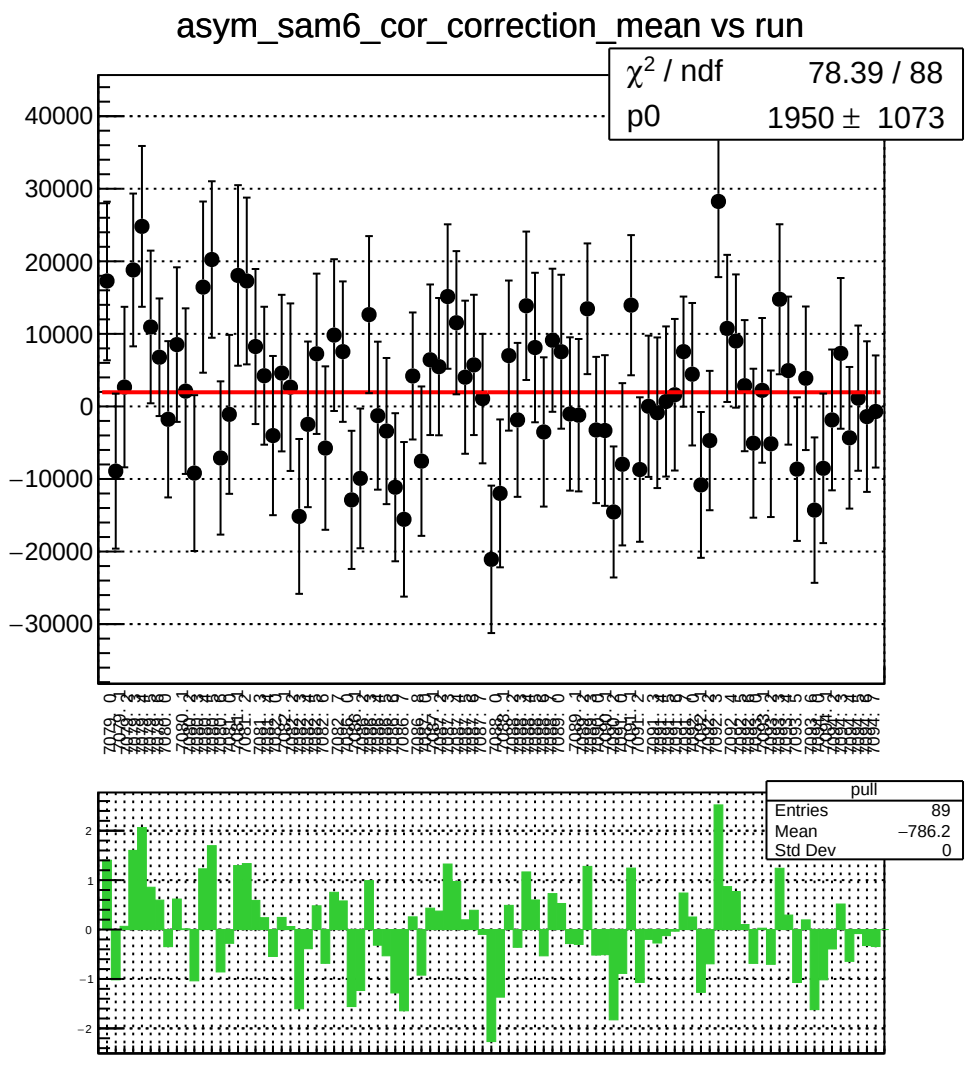

pull1D
Entries 89
Mean 0.005346
Std Dev 0.9385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

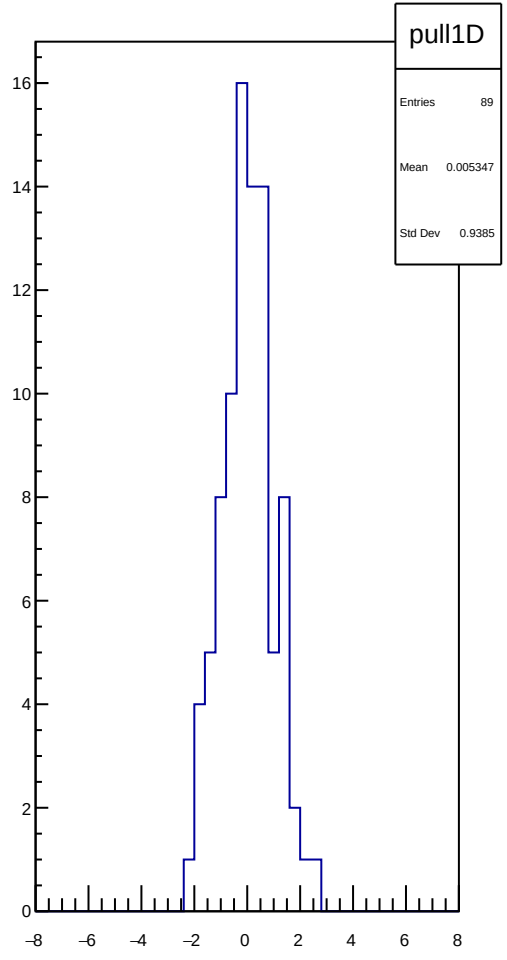

asym_sam6_reg_correction_rms vs run
χ² / ndf 4826 / 88
p0 984.1 ± 0.7589
1200
1150
1100
1050
1000
950
900
850

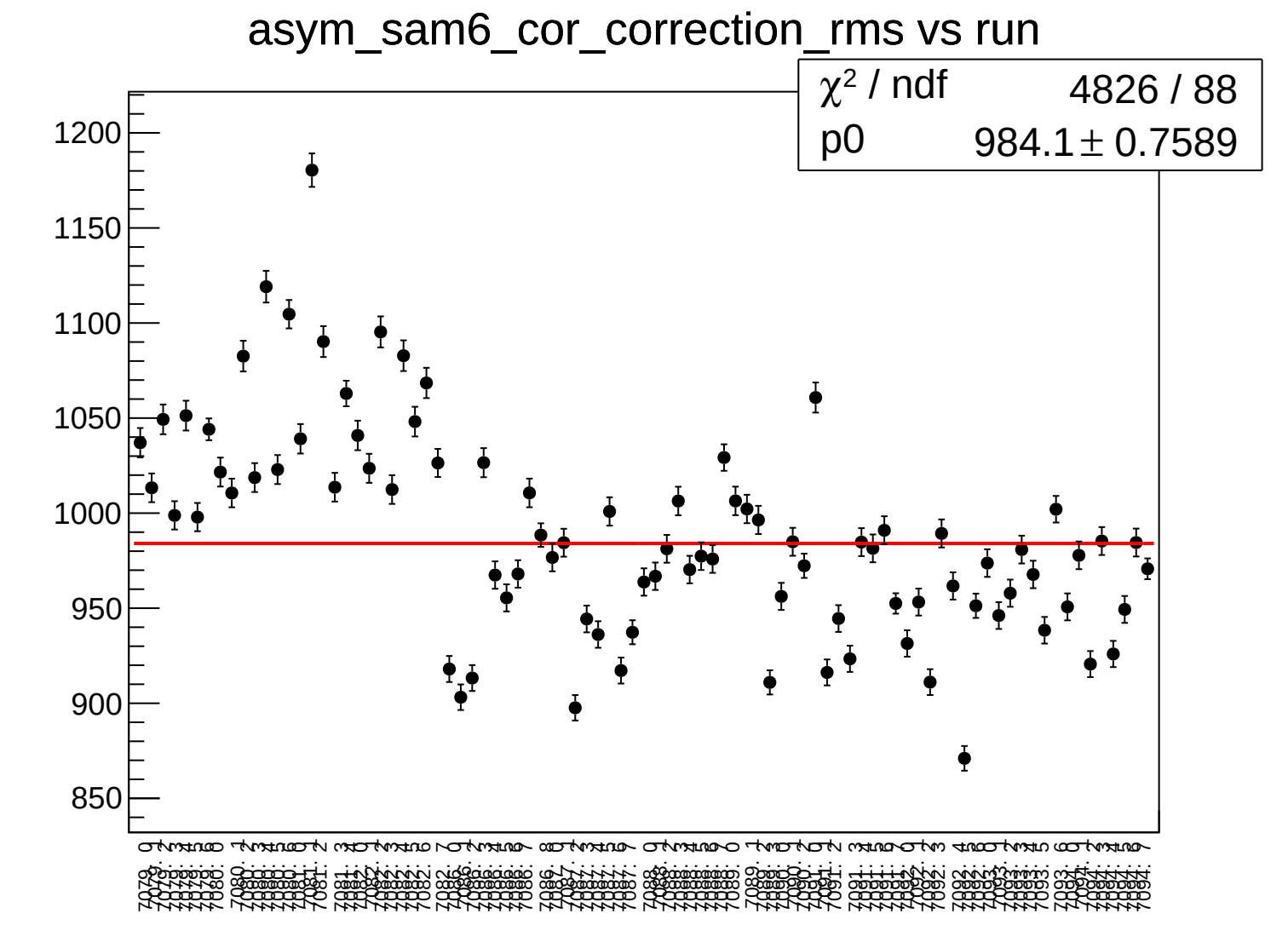

cor_asym_sam6_mean vs run
χ² / ndf 100.4 / 88
p0 165 ± 168.9
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −415.8
Std Dev 0
3
2
1
0
−1
−2

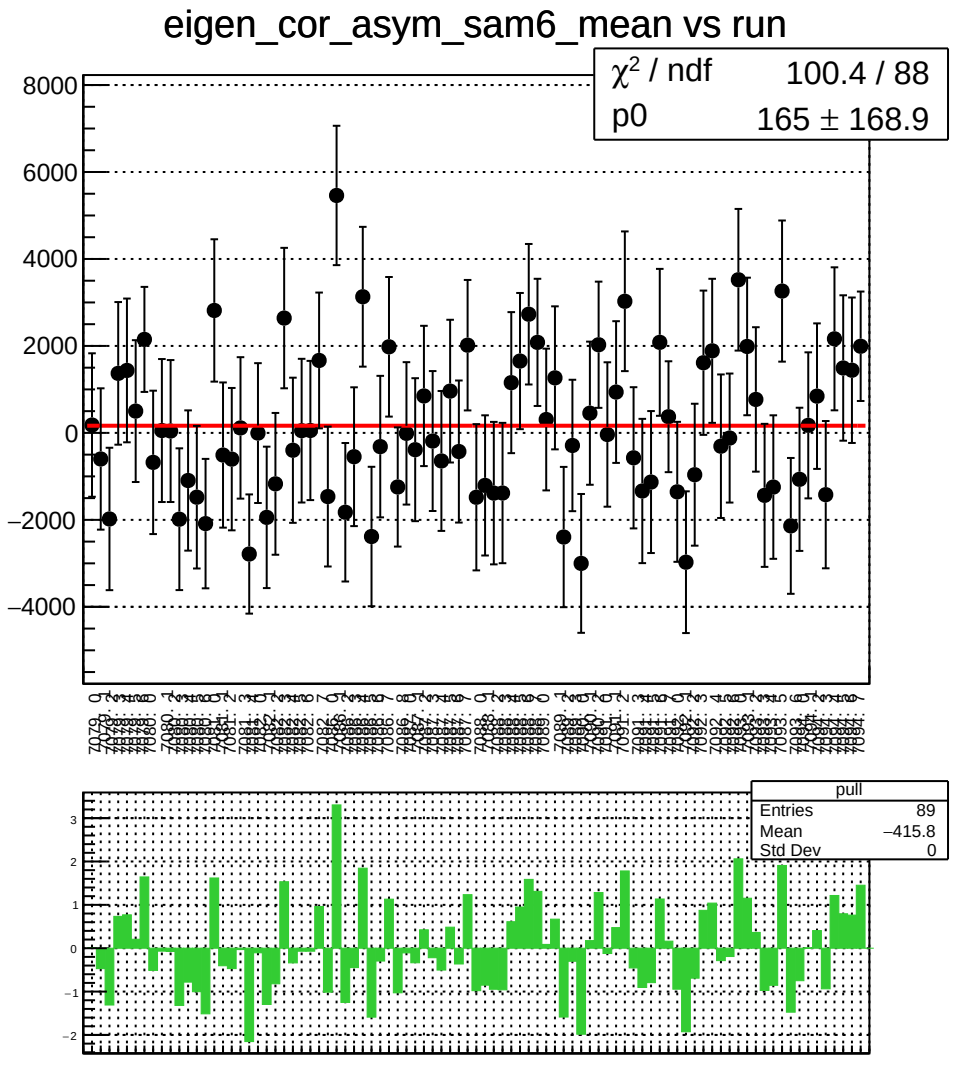

pull1D
Entries 89
Mean −0.007807
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

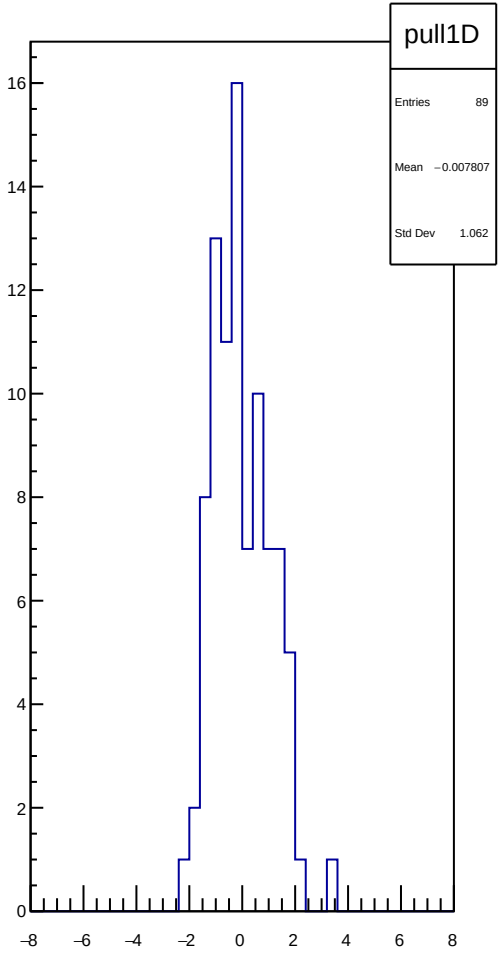

cor_asym_sam6_rms vs run
χ² / ndf 399.4 / 88
p0 155.1 ± 0.1194
162
160
158
156
154
152
150
148

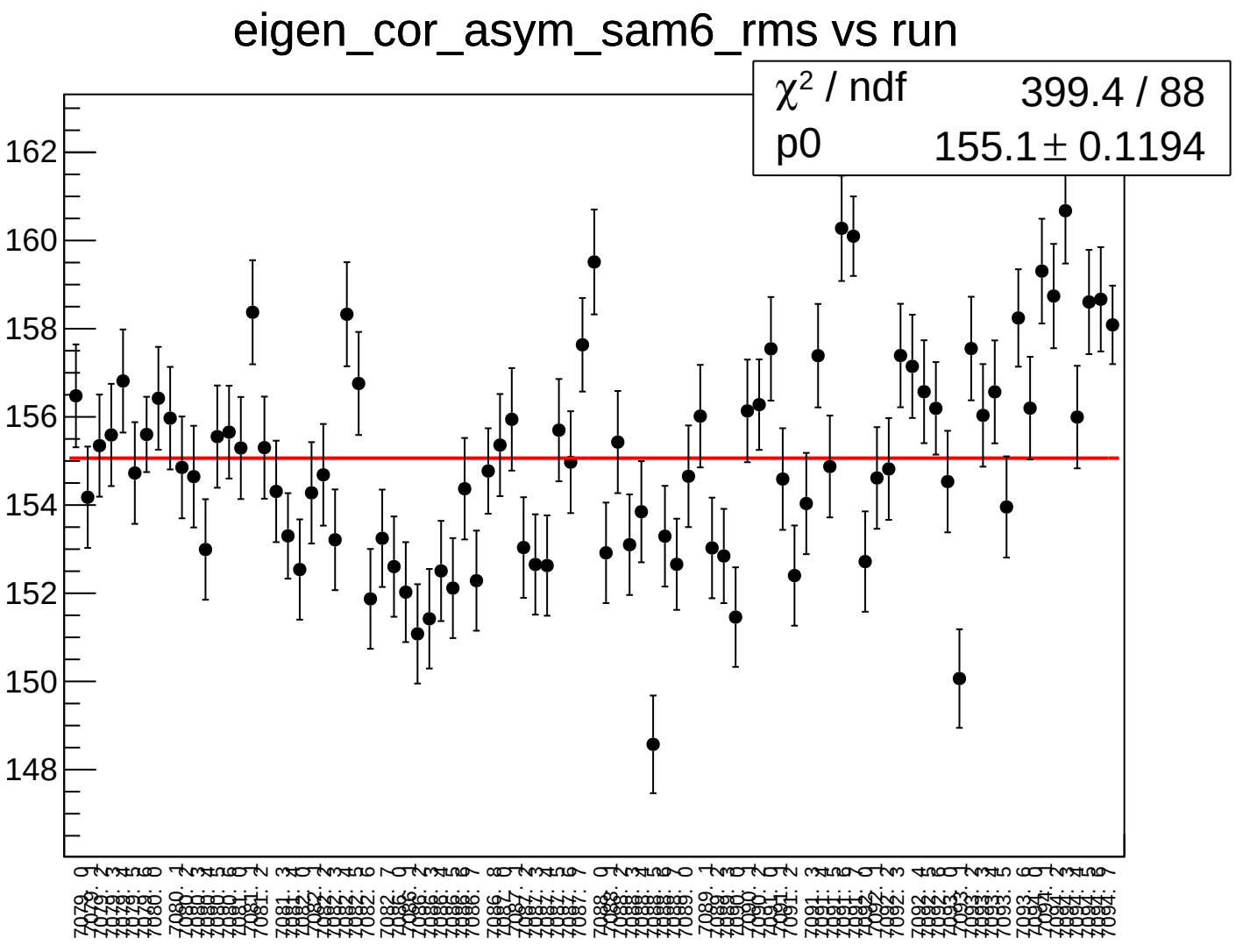

asym_sam6_cor_correction_mean vs run
χ² / ndf 78.39 / 88
p0 1950 ± 1073
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −786.2
Std Dev 0
2
1
0
−1
−2

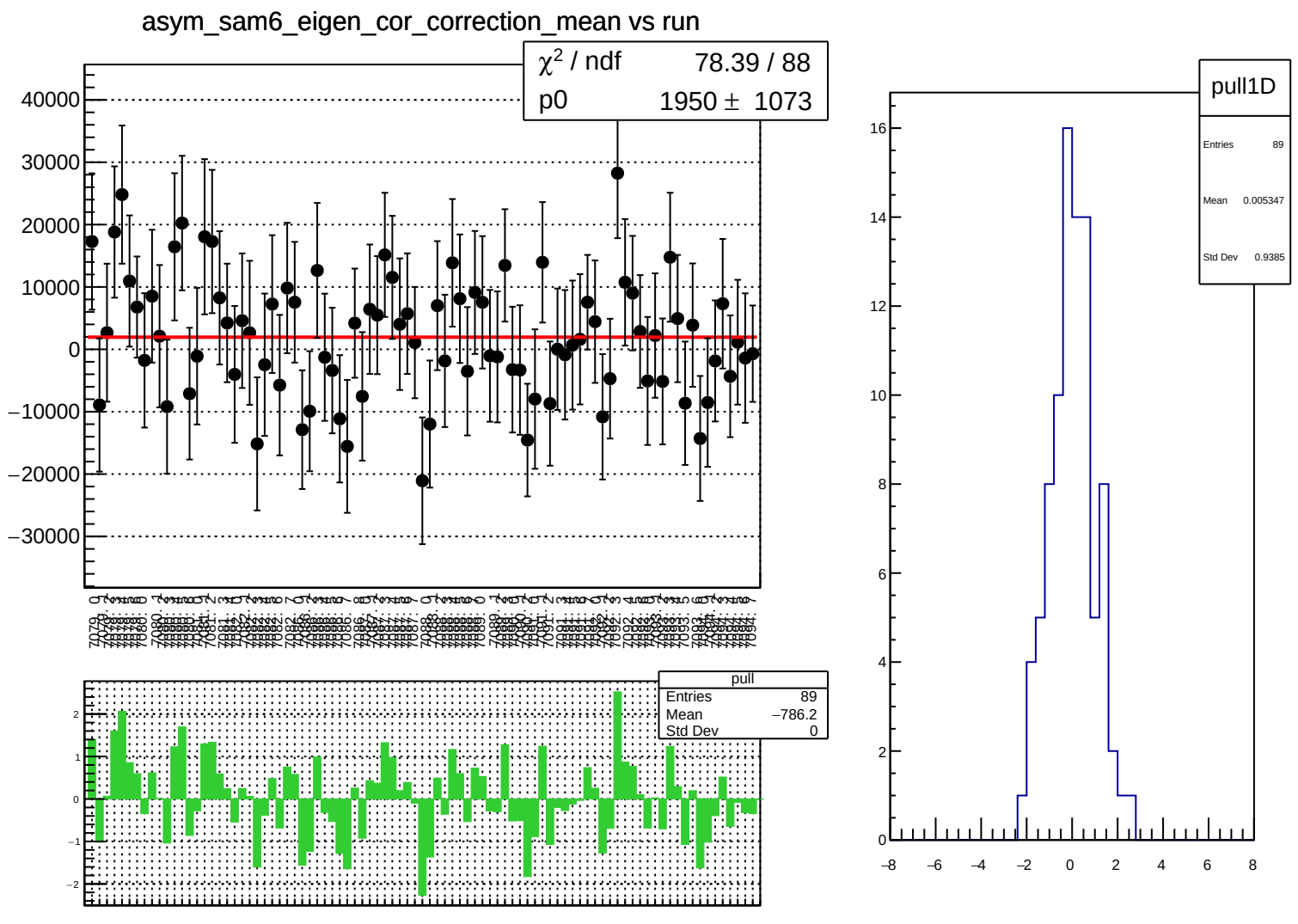

pull1D
Entries 89
Mean 0.005347
Std Dev 0.9385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

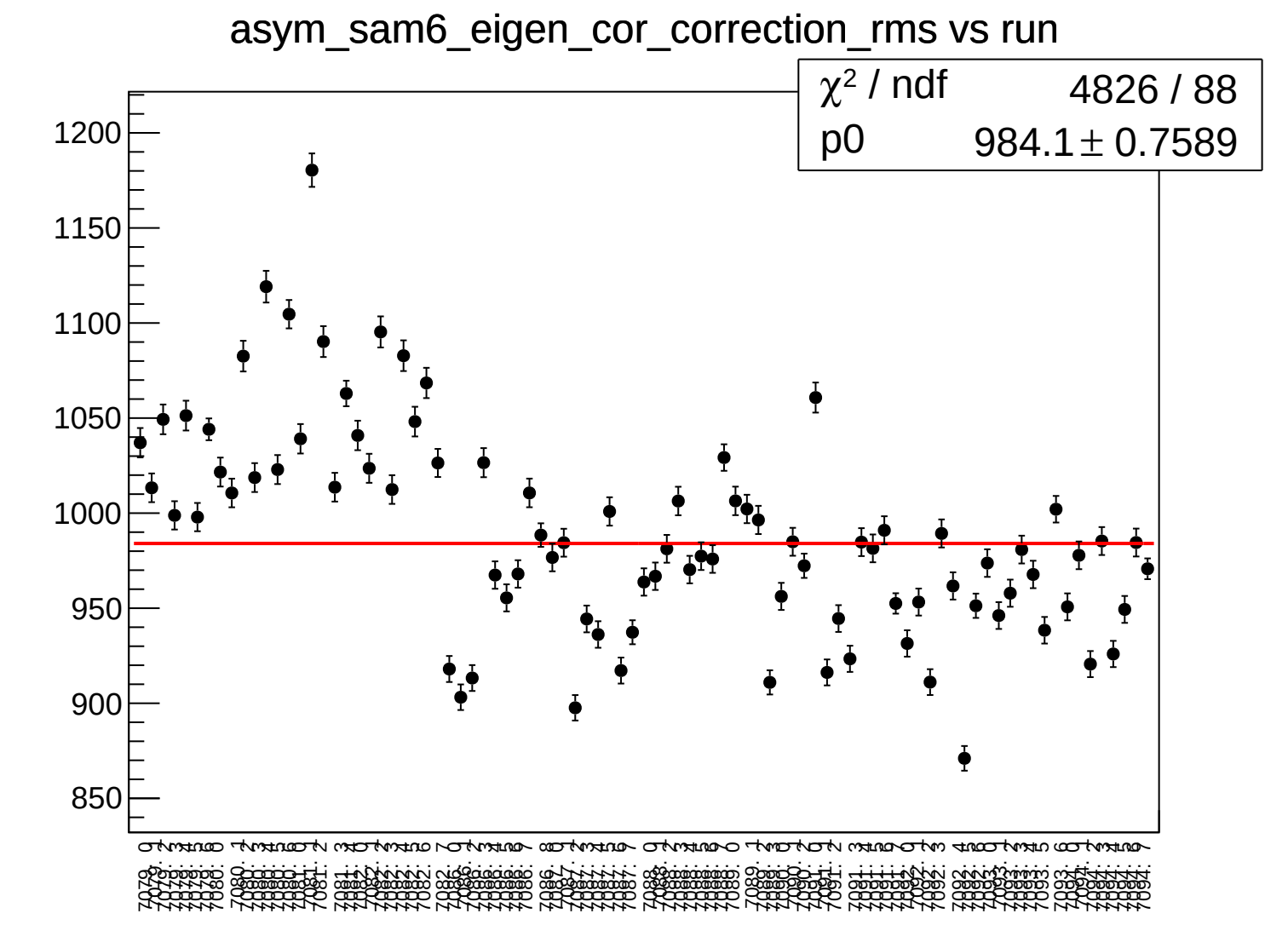

asym_sam6_cor_correction_rms vs run
χ² / ndf 4826 / 88
p0 984.1 ± 0.7589
1200
1150
1100
1050
1000
950
900
850

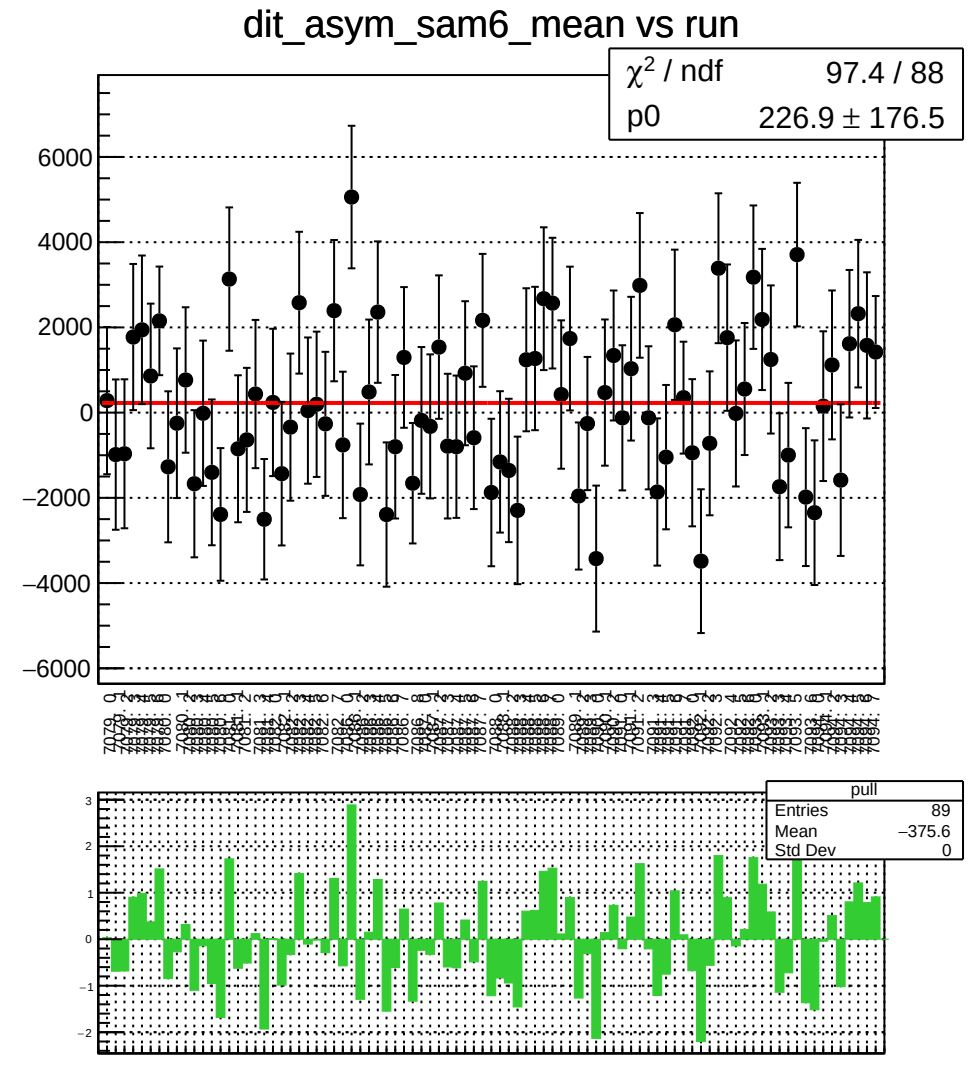

eigen_cor_asym_sam6_mean vs run
χ² / ndf 100.4 / 88
p0 165 ± 168.9
pull
Entries 89
Mean −415.8
Std Dev 0

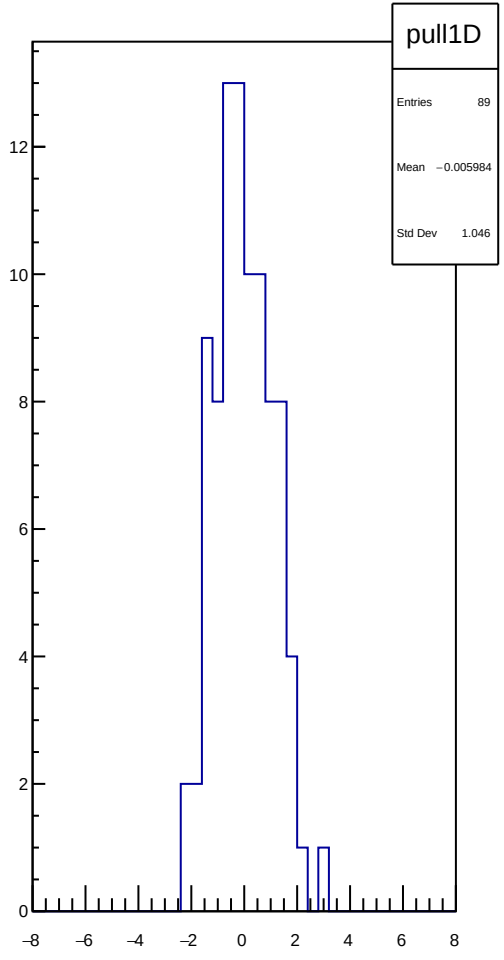

pull1D
Entries 89
Mean −0.007807
Std Dev 1.062

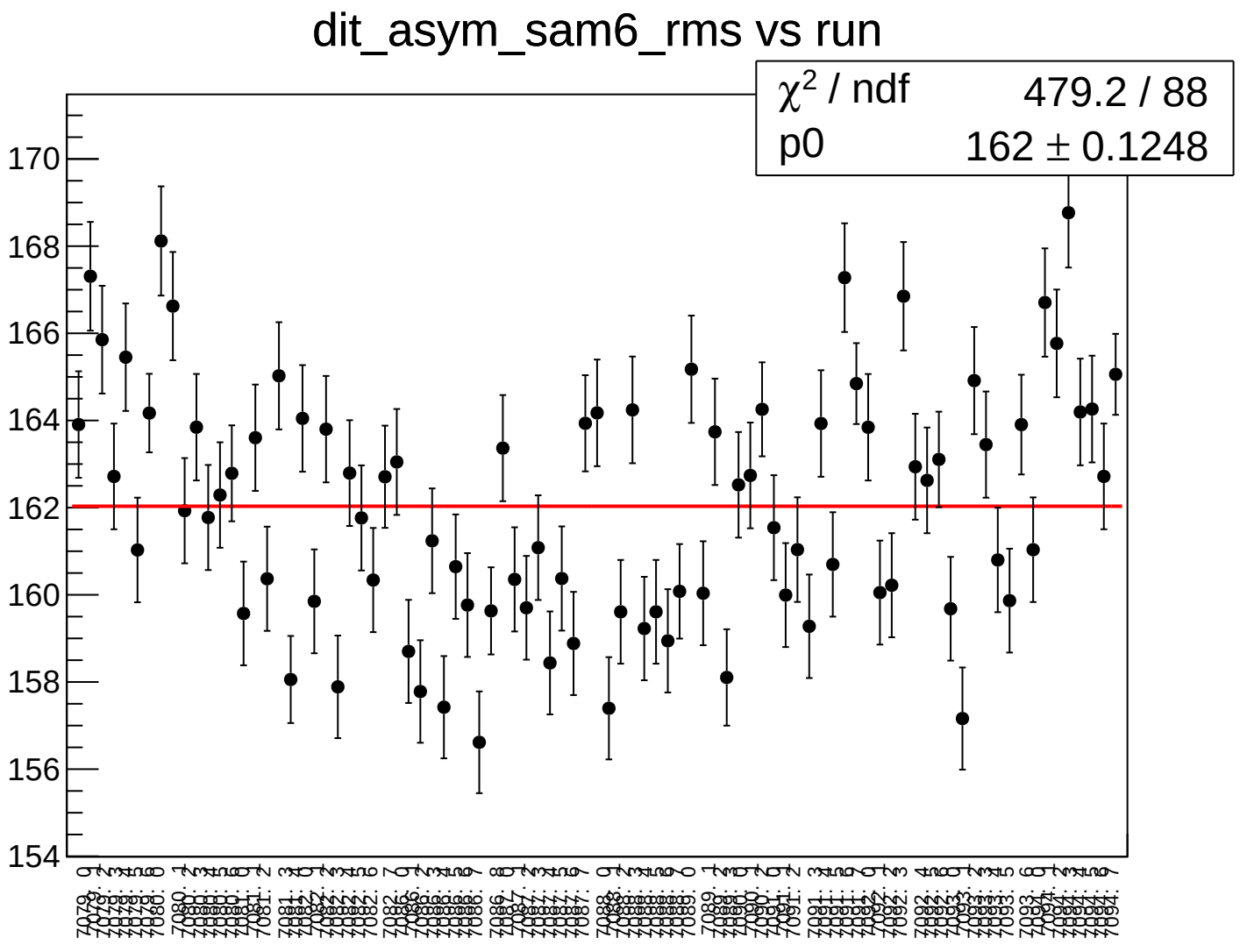

eigen_cor_asym_sam6_rms vs run
χ² / ndf 399.4 / 88
p0 155.1 ± 0.1194
162
160
158
156
154
152
150
148

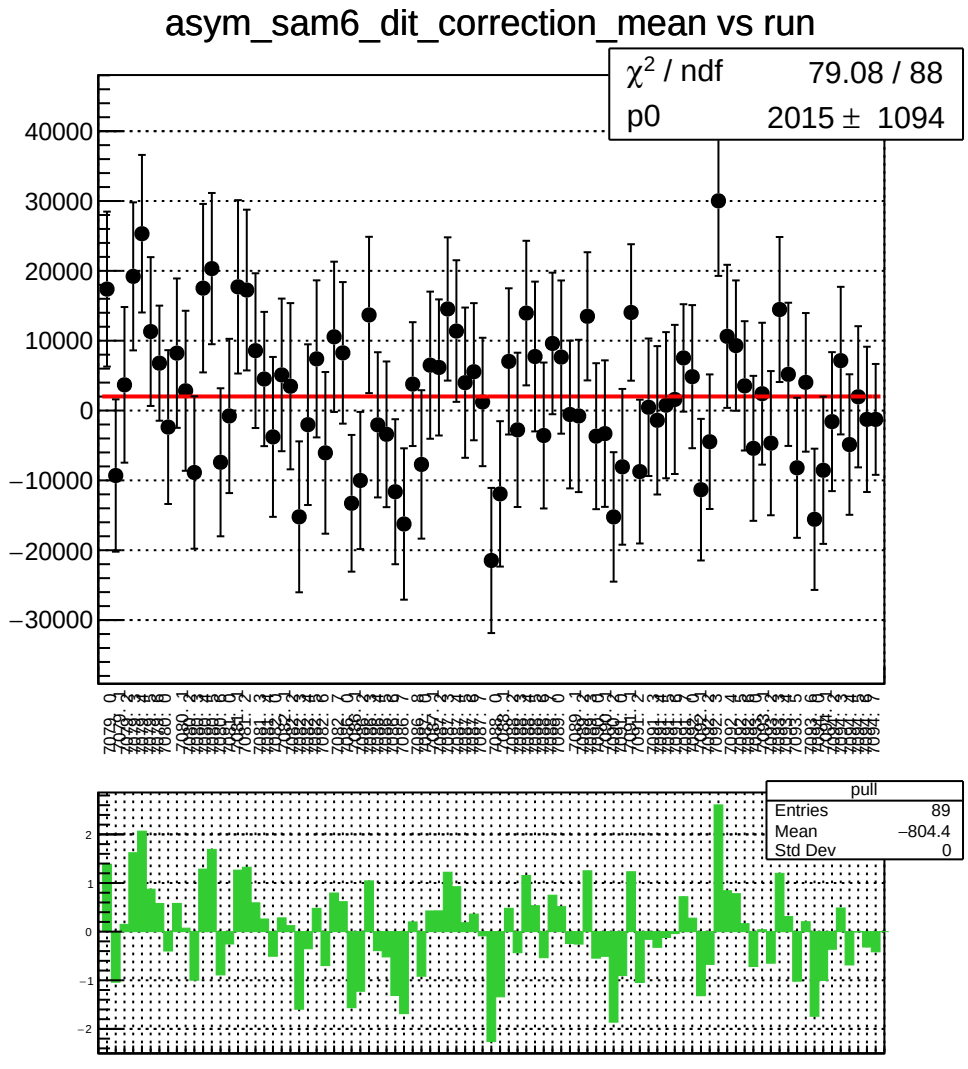

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 78.39 / 88
p0 1950 ± 1073
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −786.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.005347
Std Dev 0.9385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

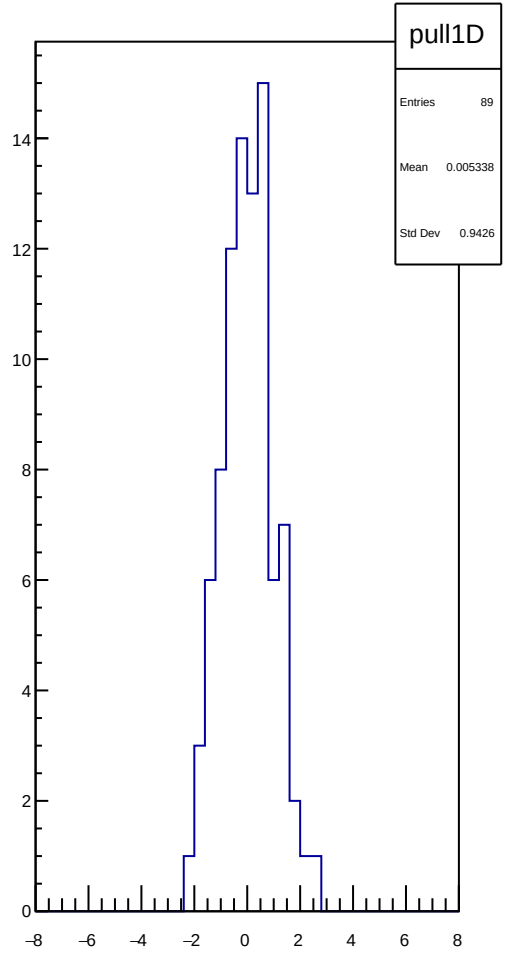

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 4826 / 88
p0 984.1 ± 0.7589
1200
1150
1100
1050
1000
950
900
850

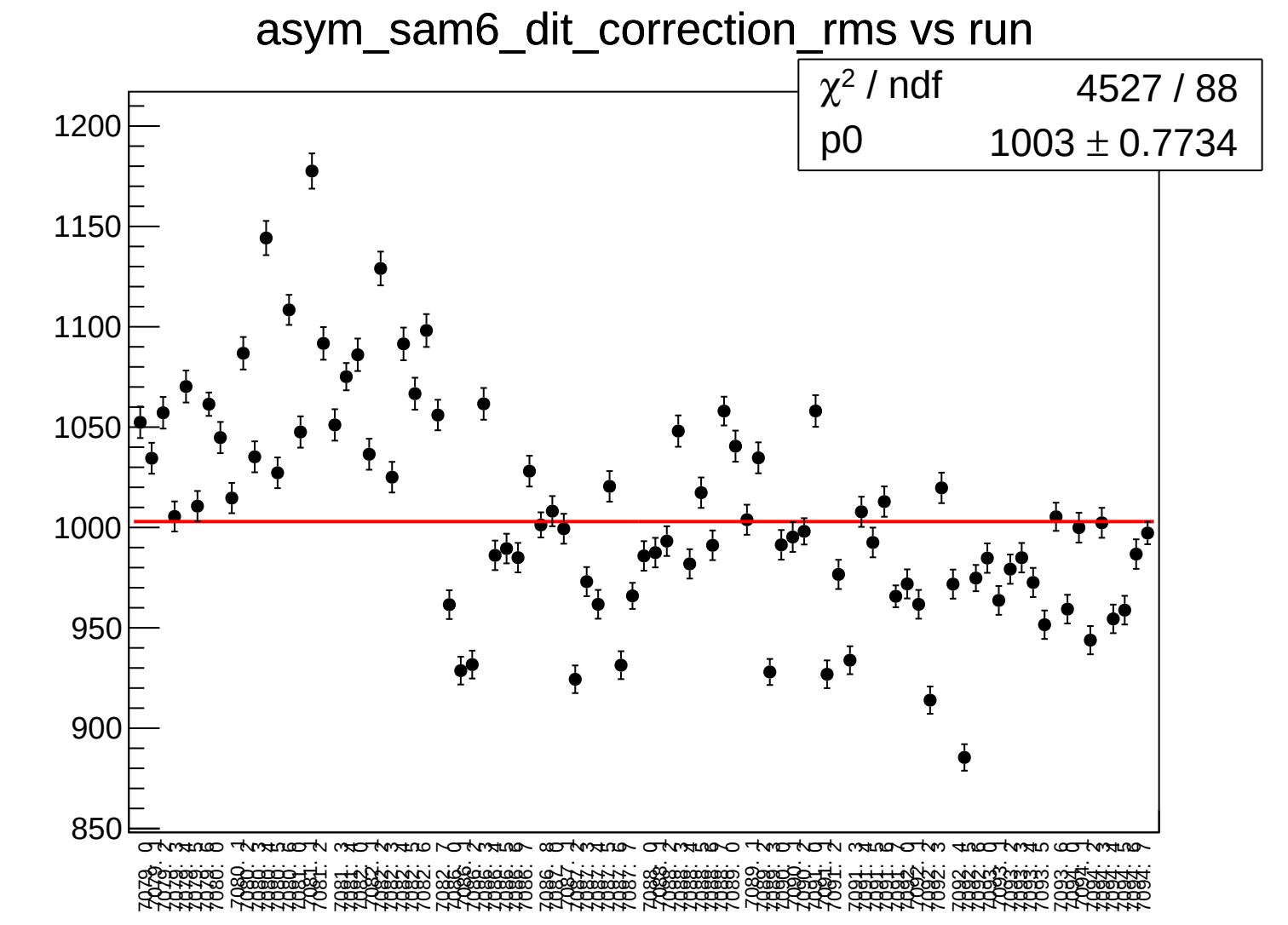

dit_asym_sam6_mean vs run
χ² / ndf 97.4 / 88
p0 226.9 ± 176.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −375.6
Std Dev 0
3
2
1
0
−1
−2

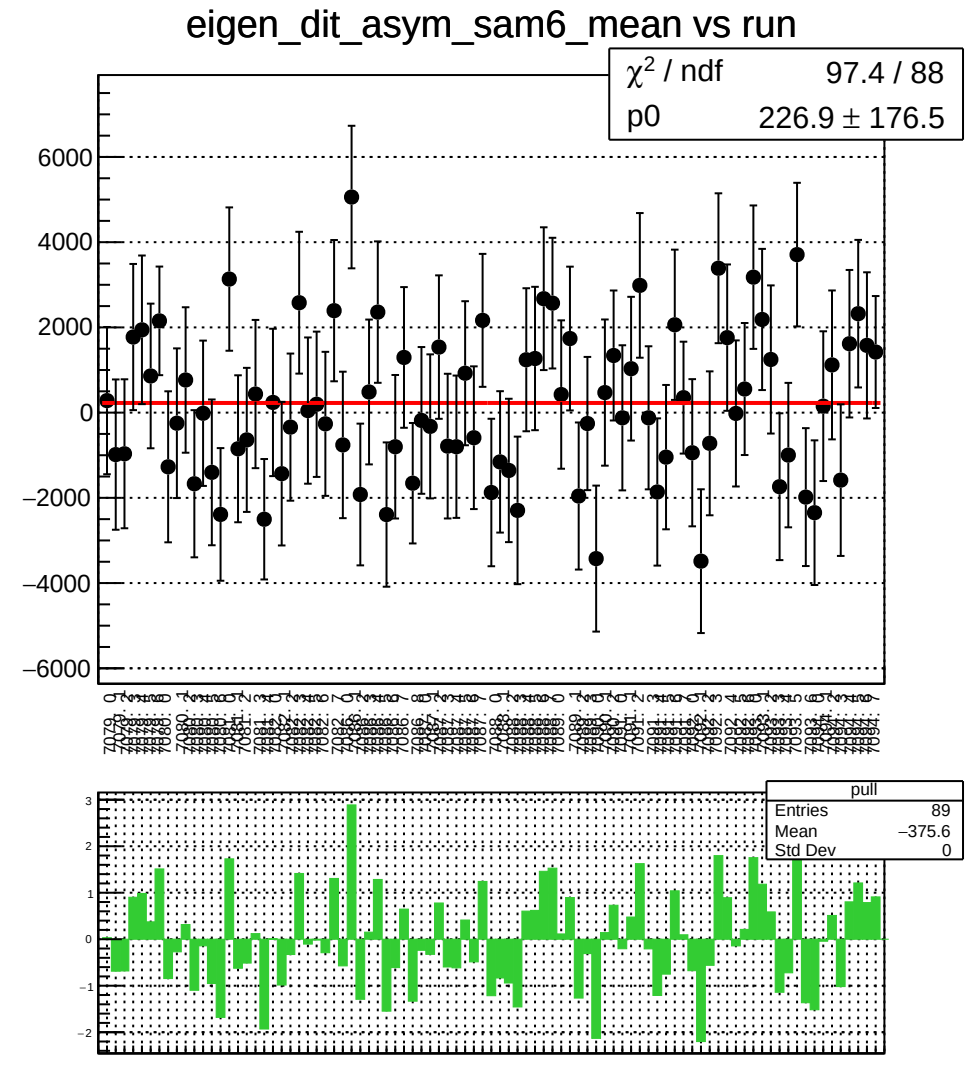

pull1D
Entries 89
Mean −0.005984
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

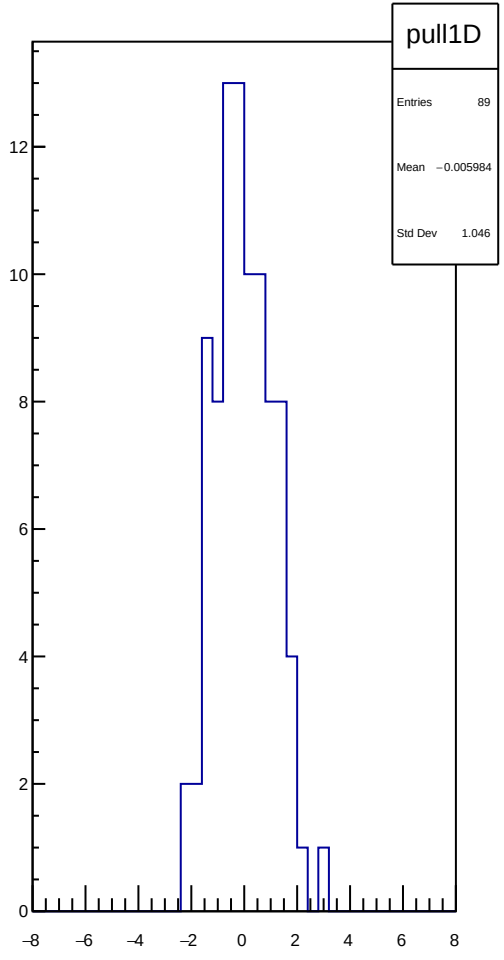

dit_asym_sam6_rms vs run
χ² / ndf 479.2 / 88
p0 162 ± 0.1248
170
168
166
164
162
160
158
156
154

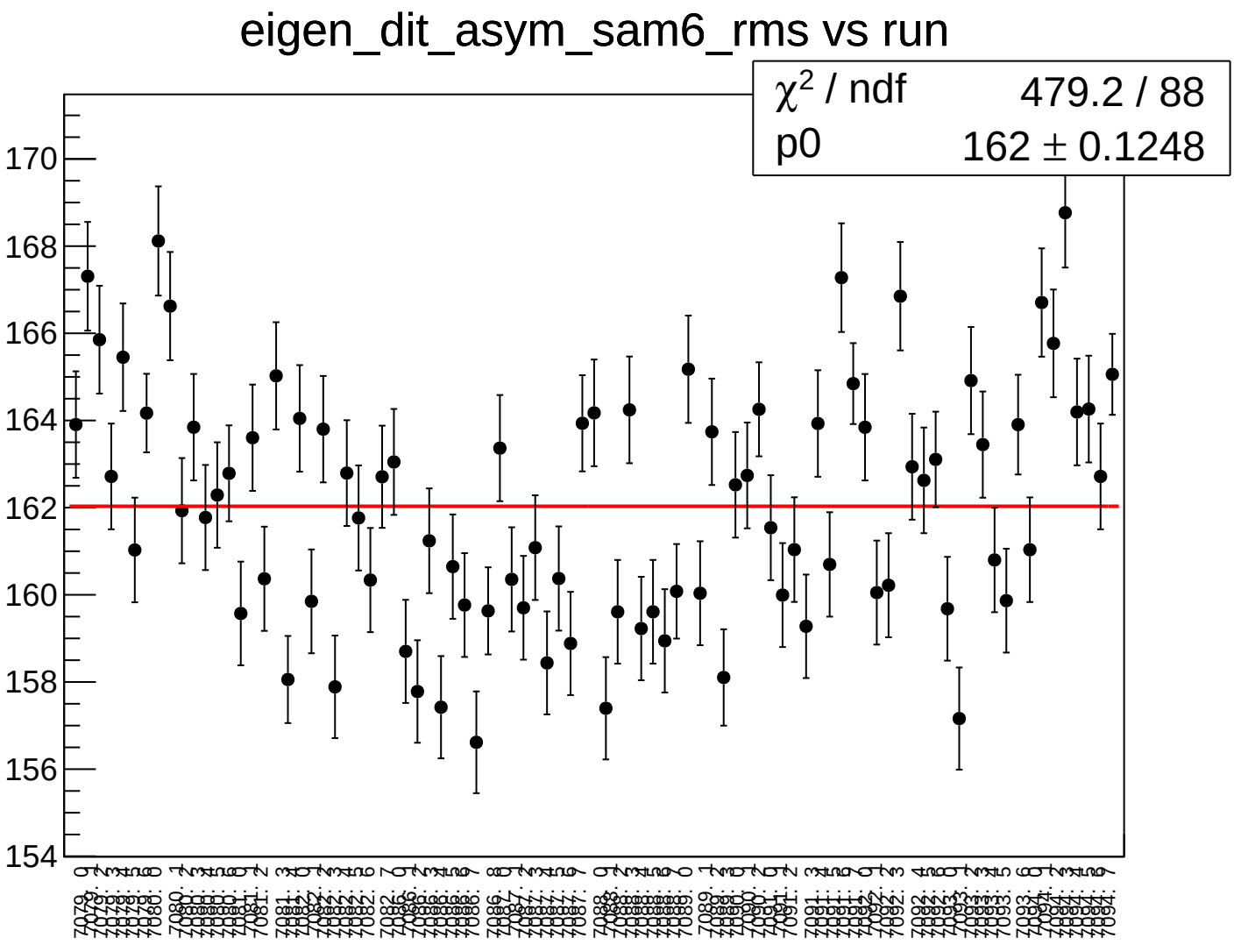

asym_sam6_dit_correction_mean vs run
χ² / ndf 79.08 / 88
p0 2015 ± 1094
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −804.4
Std Dev 0
2
1
0
−1
−2

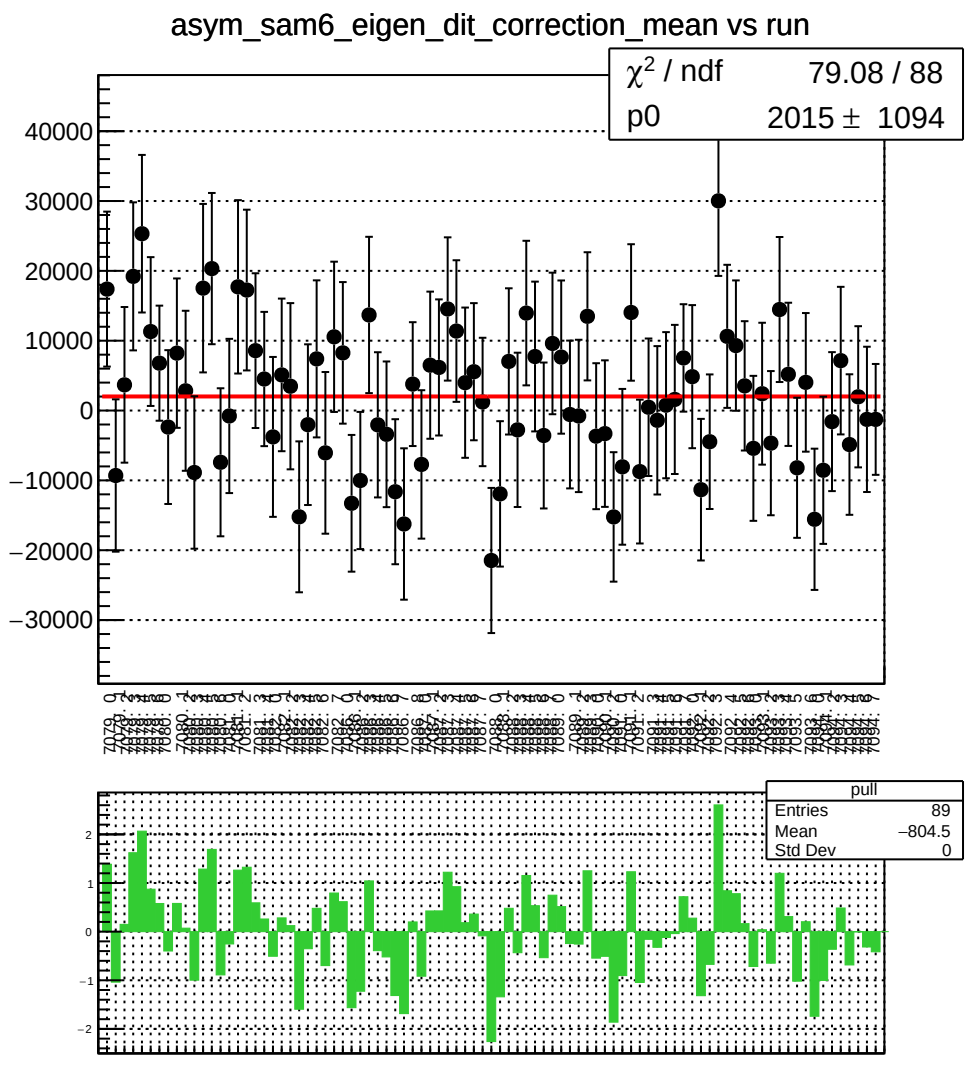

pull1D
Entries 89
Mean 0.005338
Std Dev 0.9426
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

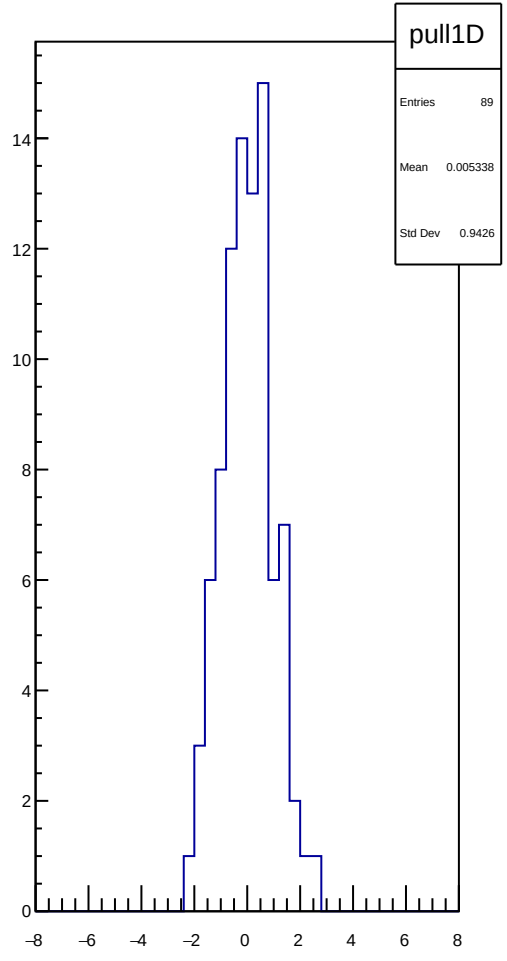

asym_sam6_dit_correction_rms vs run
χ² / ndf 4527 / 88
p0 1003 ± 0.7734
1200
1150
1100
1050
1000
950
900
850

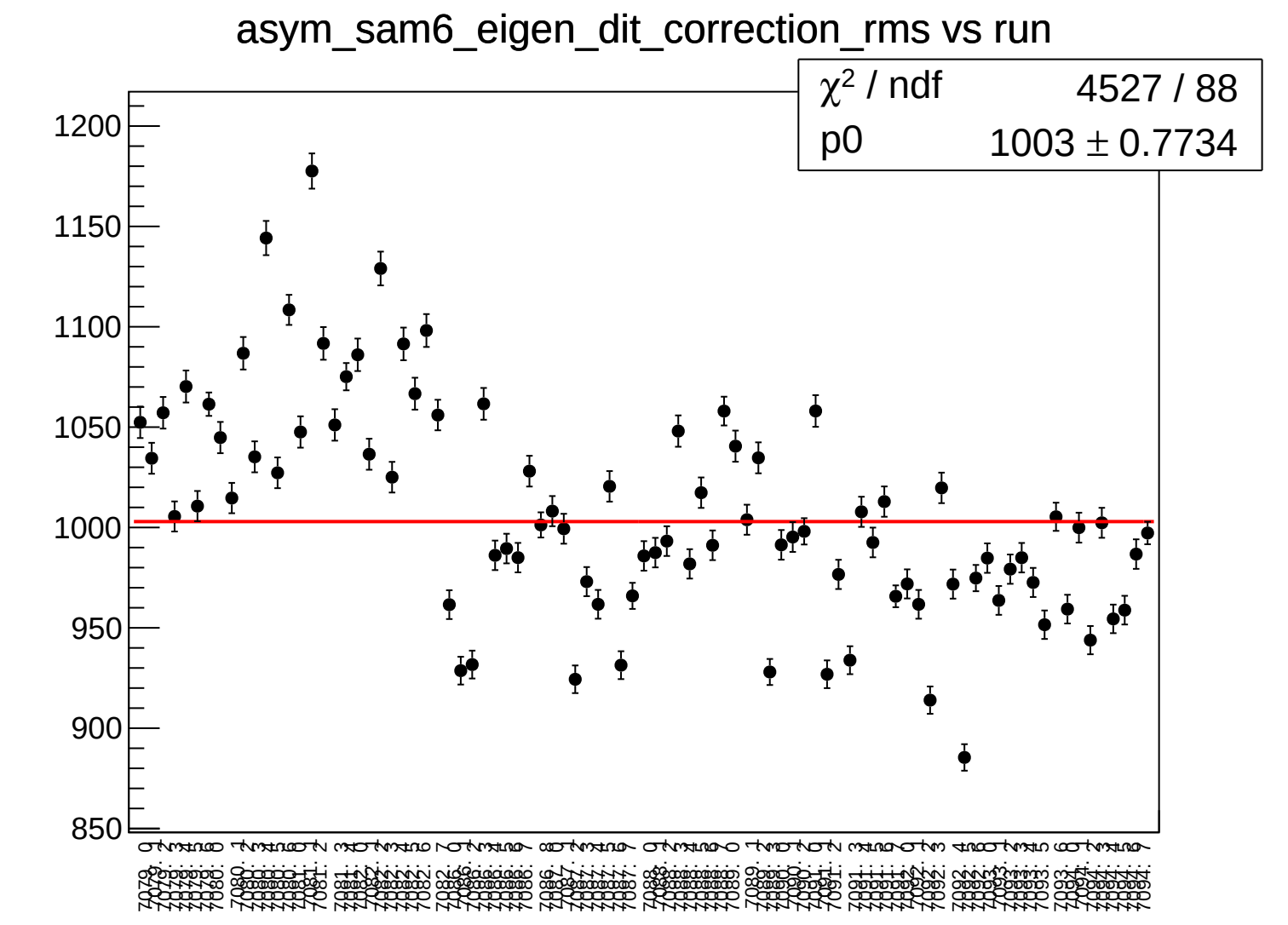

eigen_dit_asym_sam6_mean vs run
χ^2 / ndf 97.4 / 88
p0 226.9 ± 176.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −375.6
Std Dev 0
3
2
1
0
−1
−2

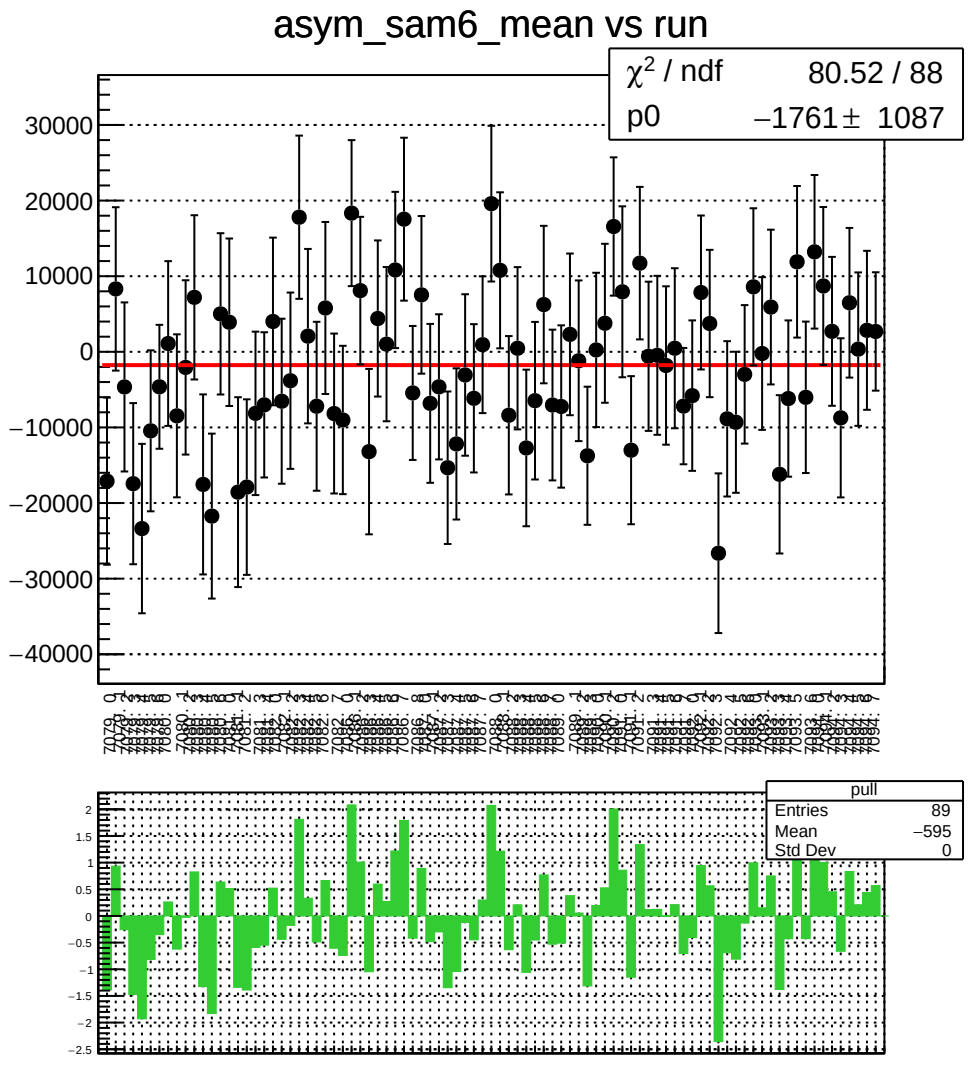

pull1D
Entries 89
Mean −0.005984
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

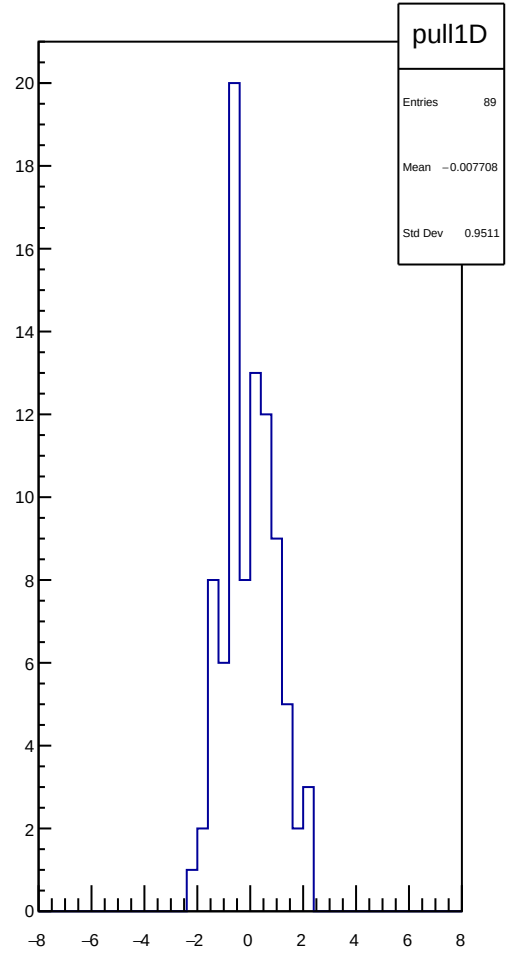

eigen_dit_asym_sam6_rms vs run
χ² / ndf 479.2 / 88
p0 162 ± 0.1248
170
168
166
164
162
160
158
156
154

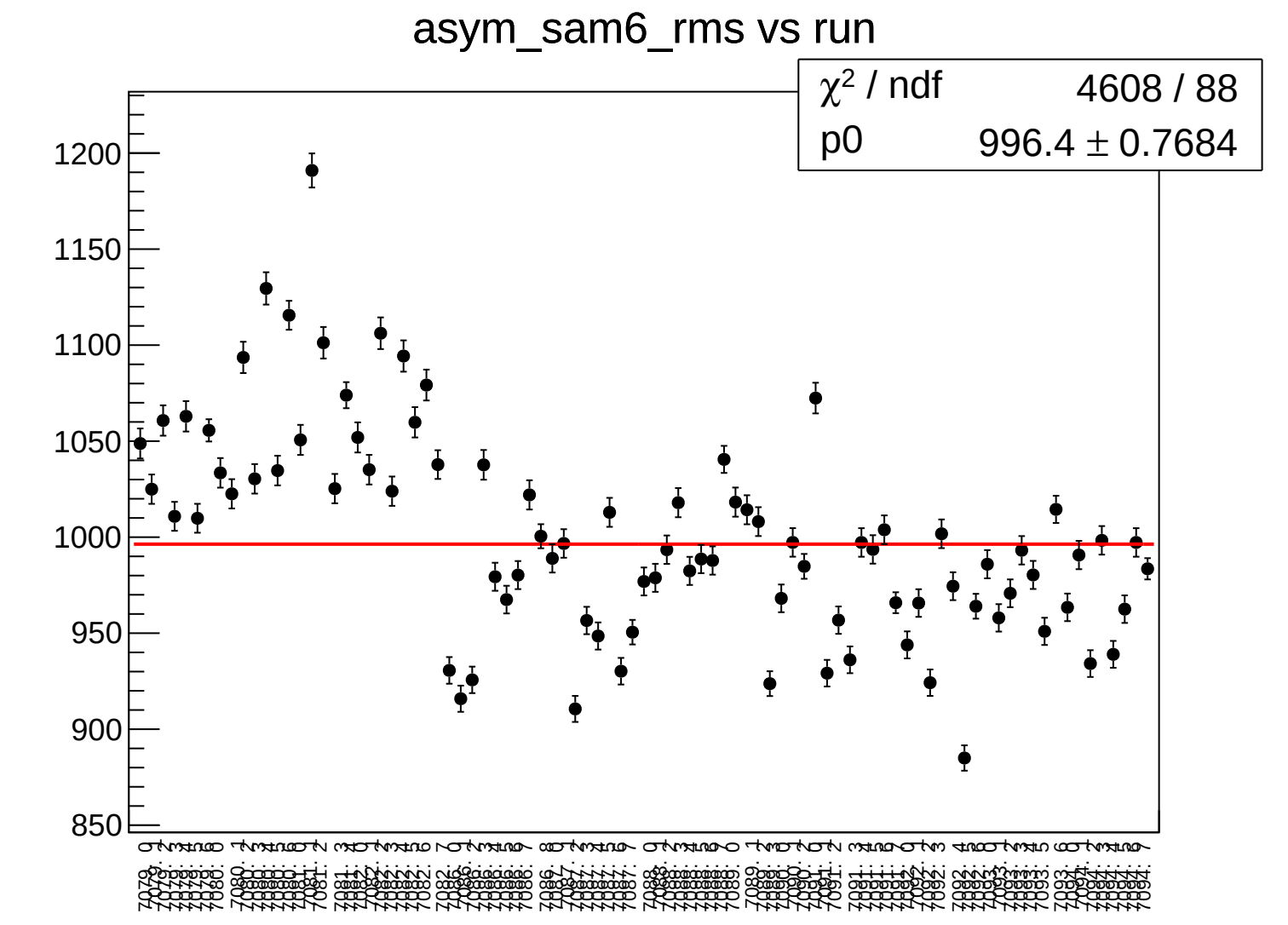

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 79.08 / 88
p0 2015 ± 1094
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −804.5
Std Dev 0
2
1
0
−1
−2

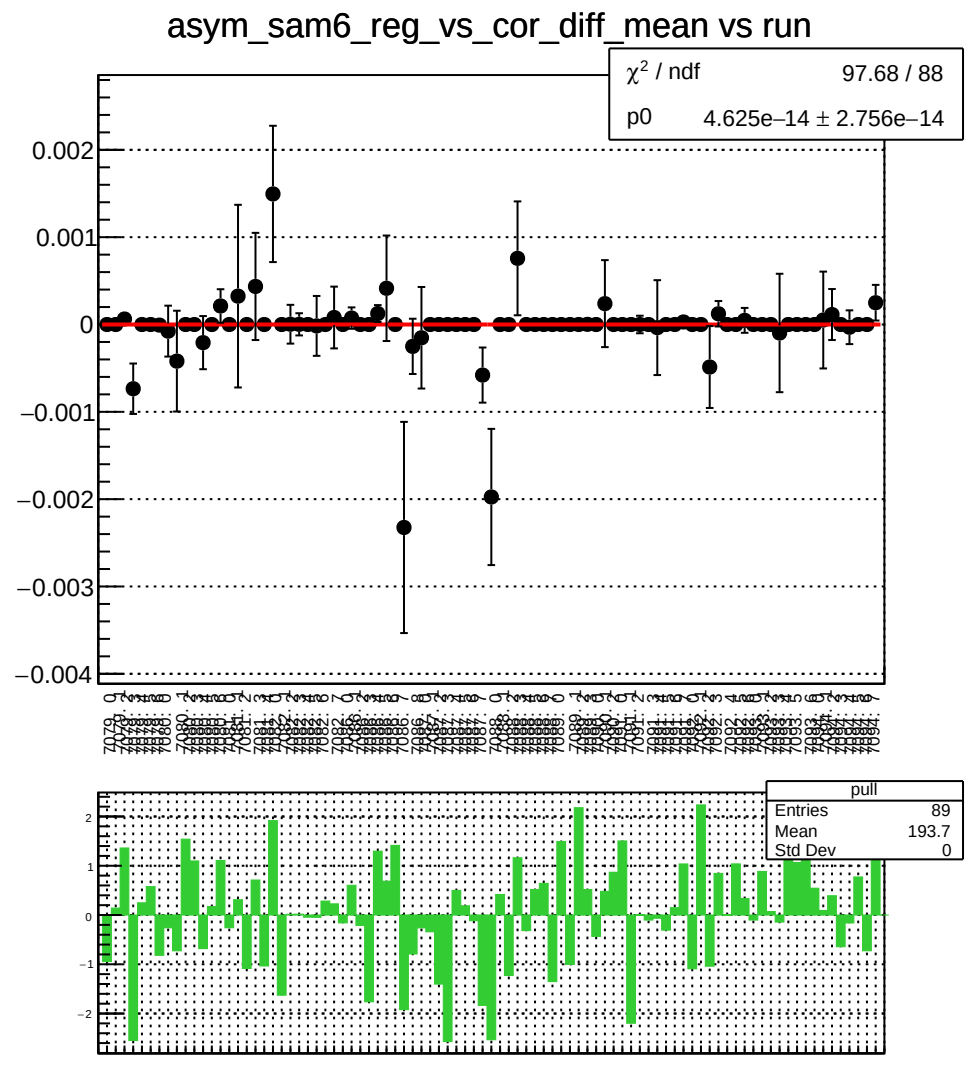

pull1D
Entries 89
Mean 0.005338
Std Dev 0.9426
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

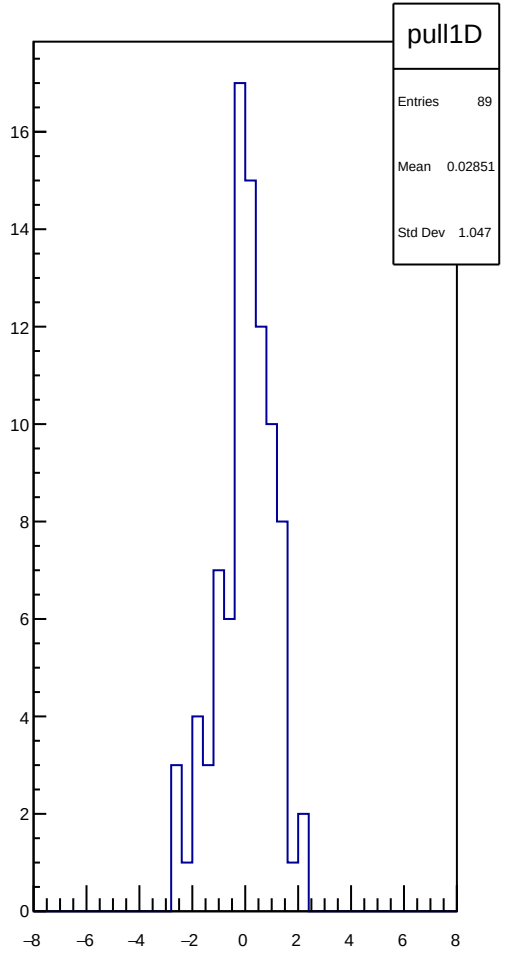

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 4527 / 88
p0 1003 ± 0.7734
1200
1150
1100
1050
1000
950
900
850

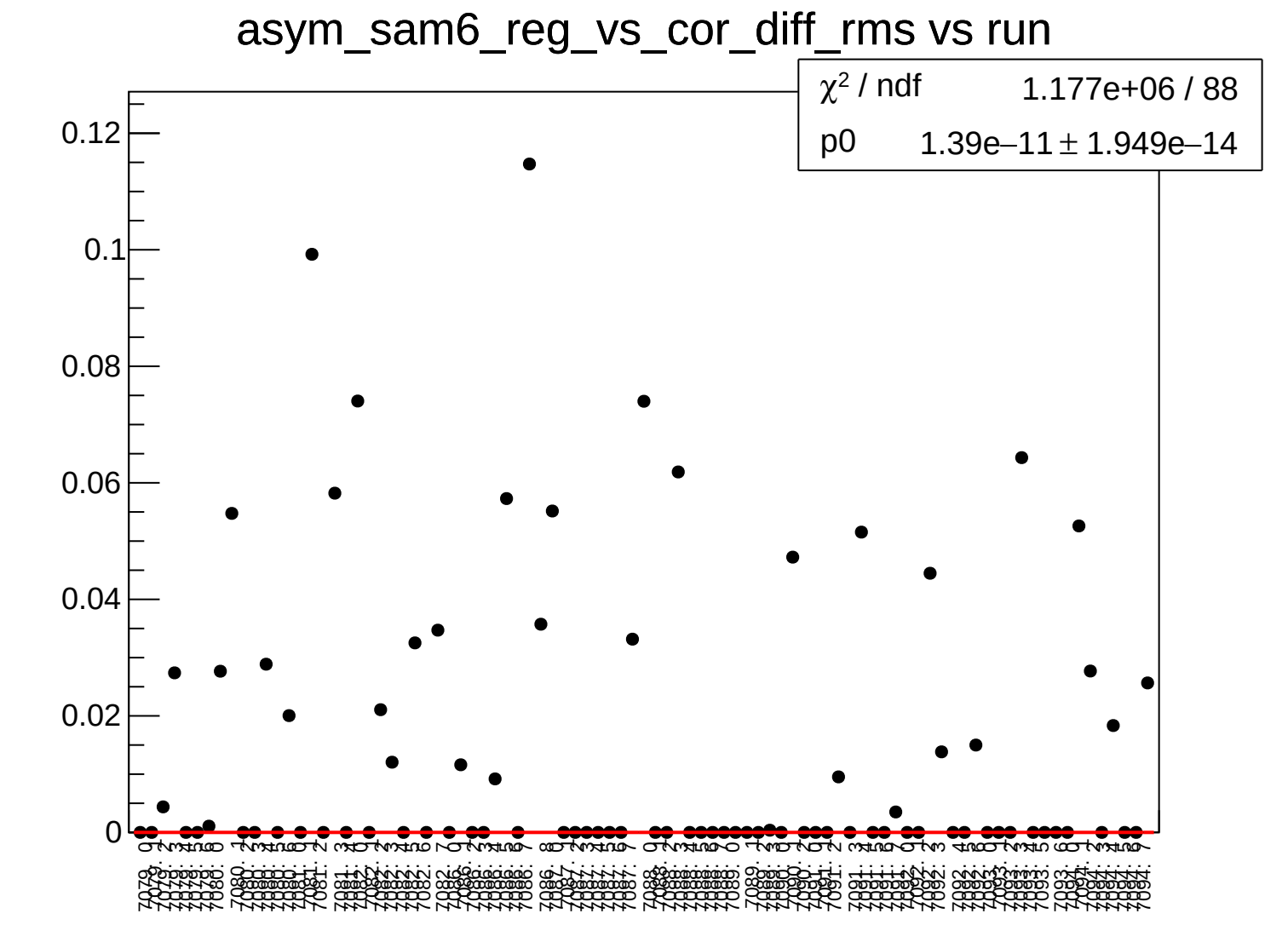

asym_sam6_mean vs run
χ² / ndf 80.52 / 88
p0 −1761 ± 1087
pull
Entries 89
Mean −595
Std Dev 0

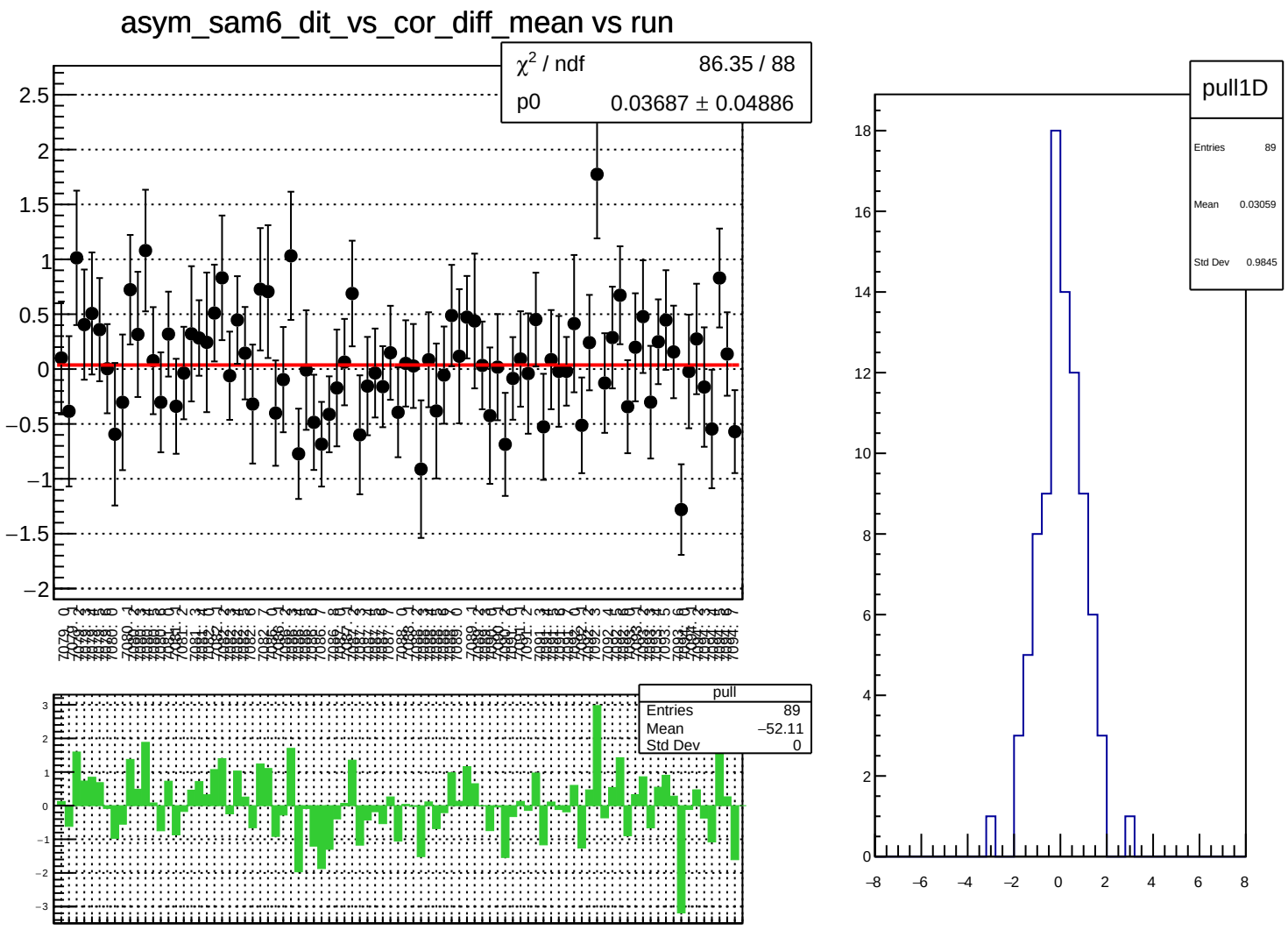

pull1D
Entries 89
Mean −0.007708
Std Dev 0.9511

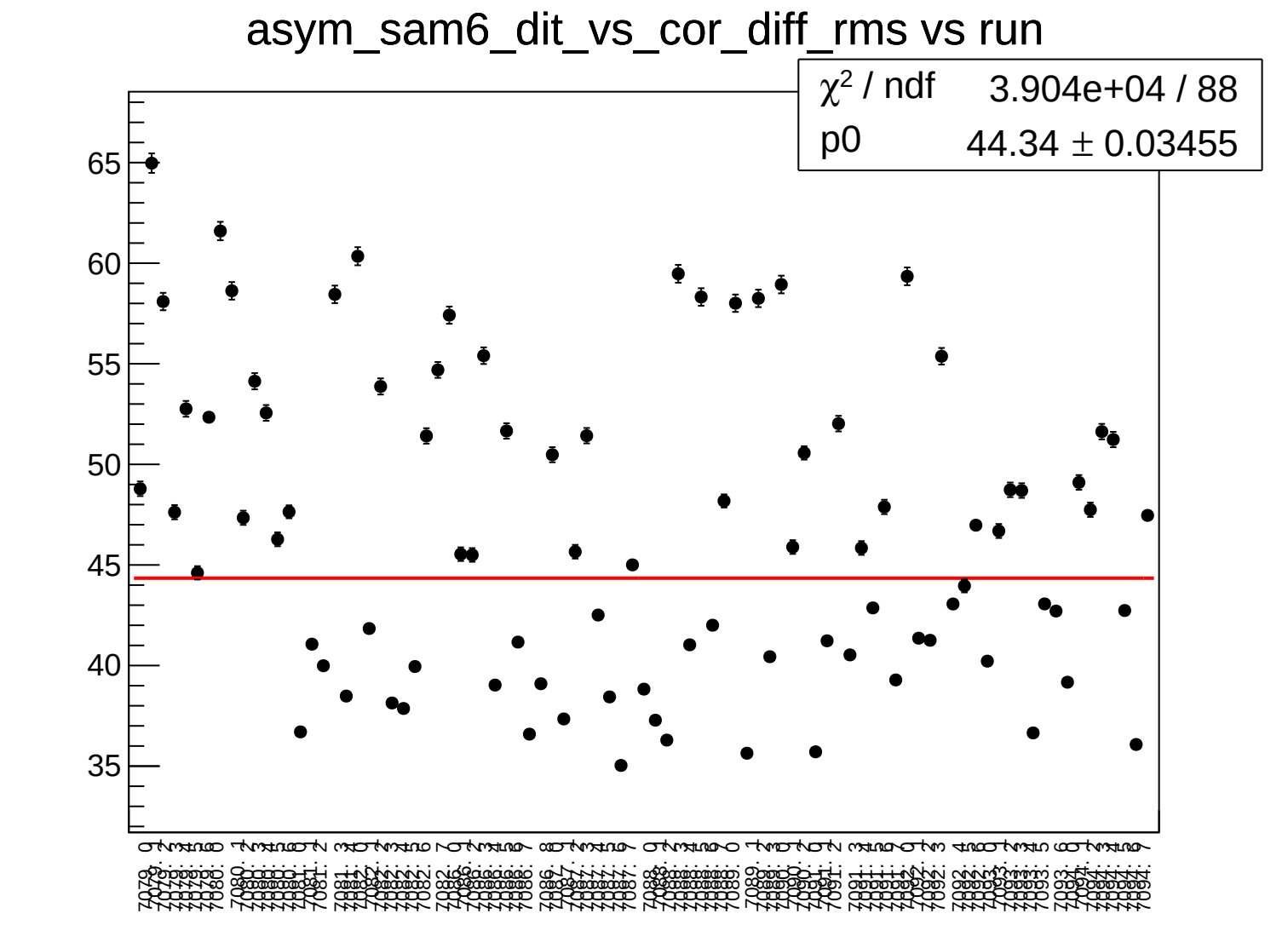

asym_sam6_rms vs run
χ² / ndf 4608 / 88
p0 996.4 ± 0.7684
1200
1150
1100
1050
1000
950
900
850

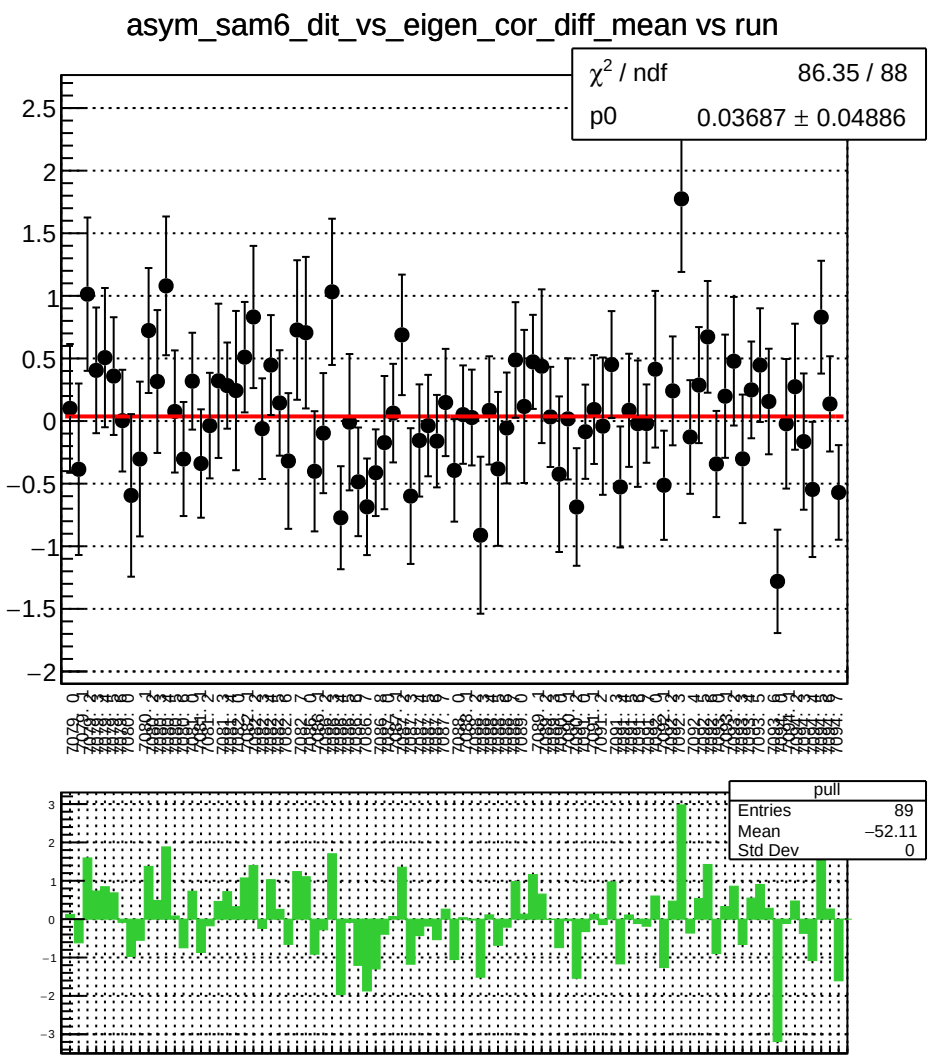

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 97.68 / 88
p0 4.625e−14 ± 2.756e−14
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 89
Mean 193.7
Std Dev 0
2
1
0
−1
−2

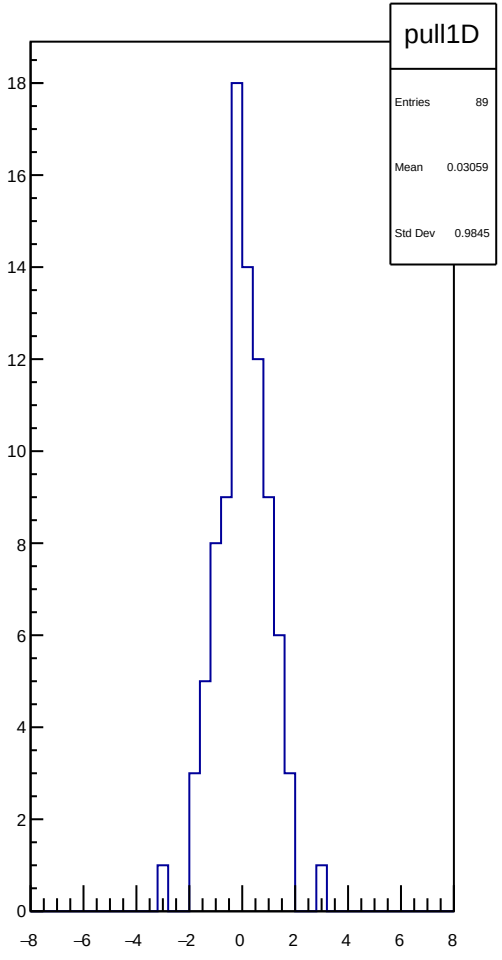

pull1D
Entries 89
Mean 0.02851
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

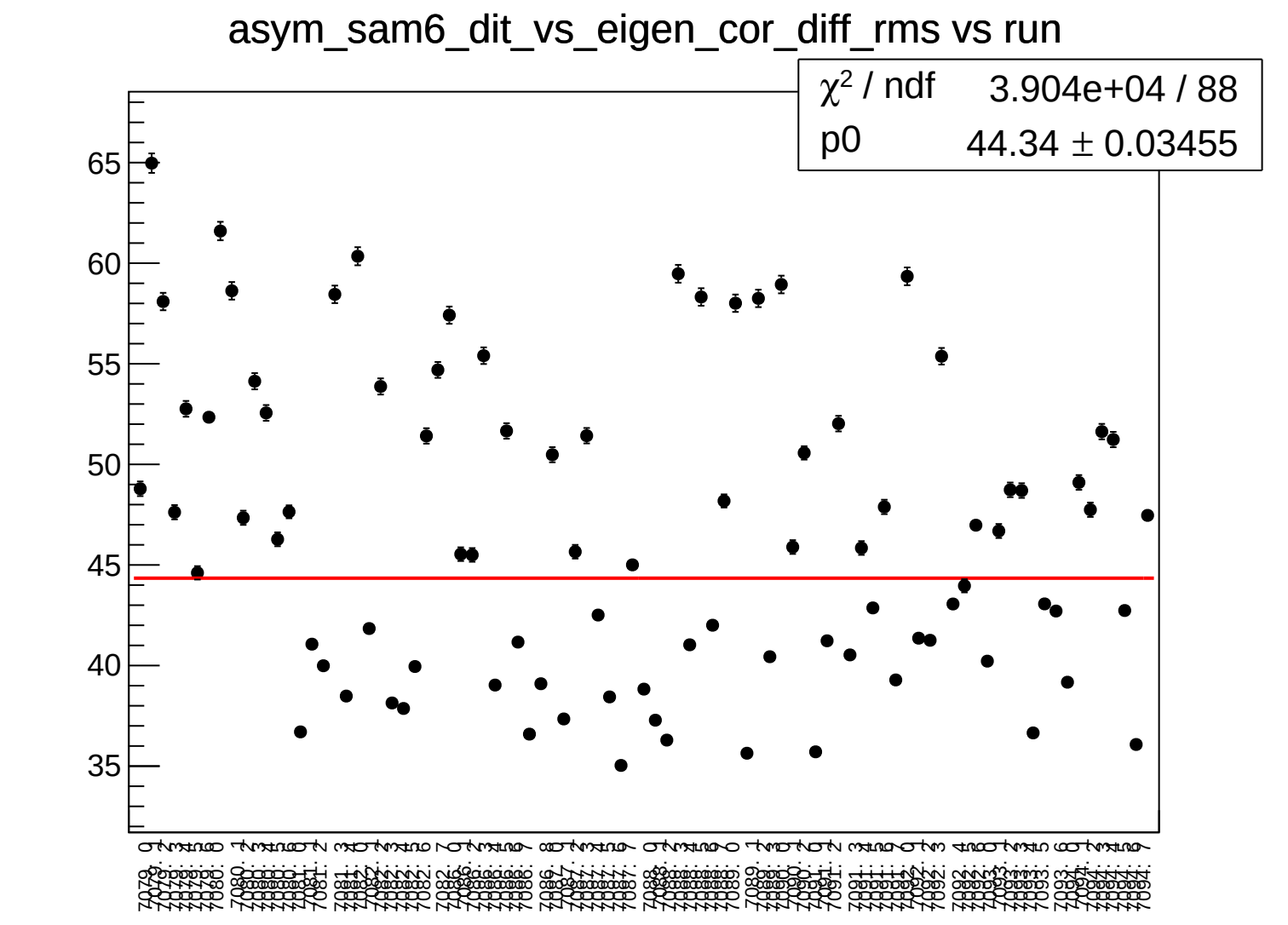

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.177e+06 / 88
p0 1.39e−11 ± 1.949e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

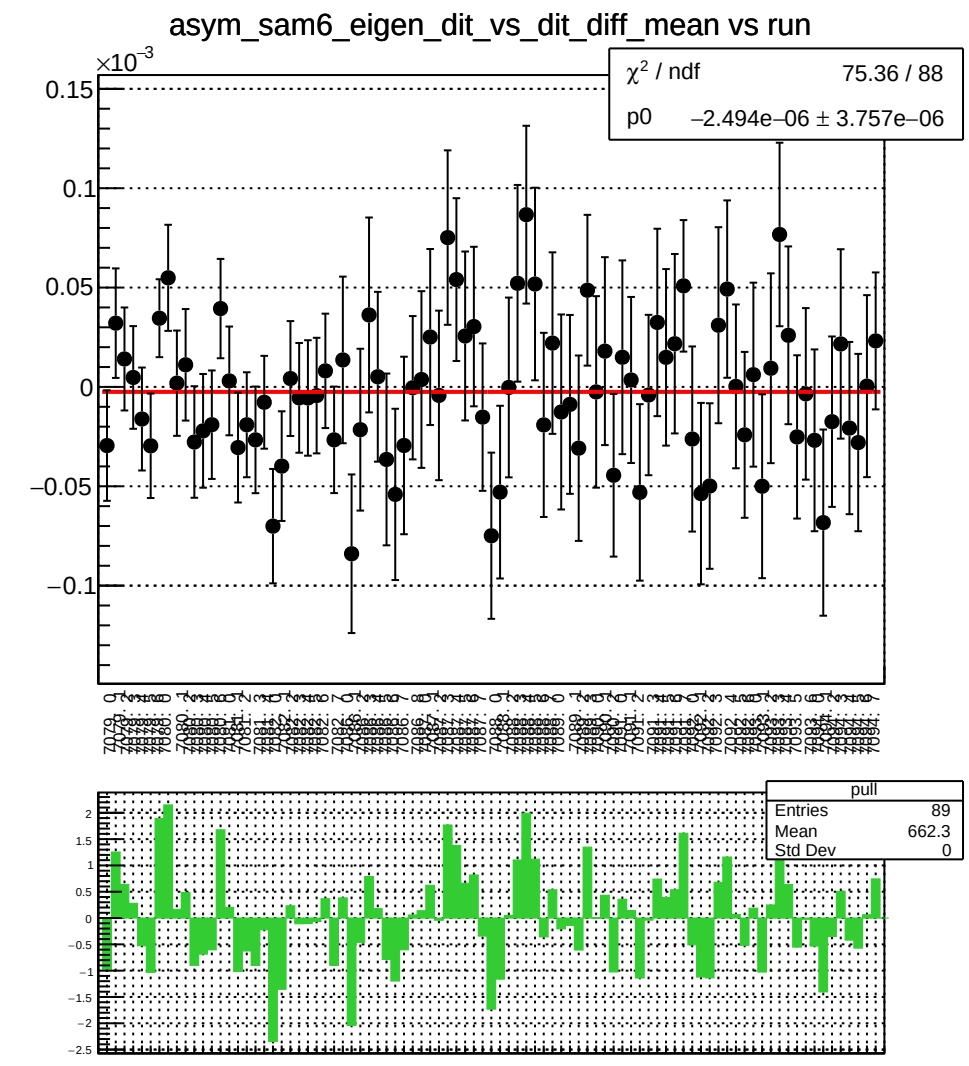

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 86.35 / 88
p0 0.03687 ± 0.04886
pull
Entries 89
Mean −52.11
Std Dev 0
pull1D
Entries 89
Mean 0.03059
Std Dev 0.9845

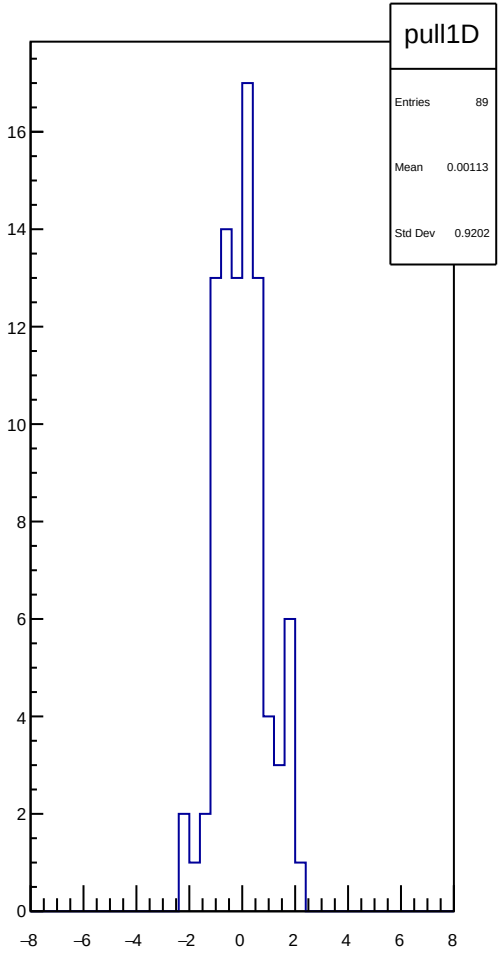

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 3.904e+04 / 88
p0 44.34 ± 0.03455
65
60
55
50
45
40
35

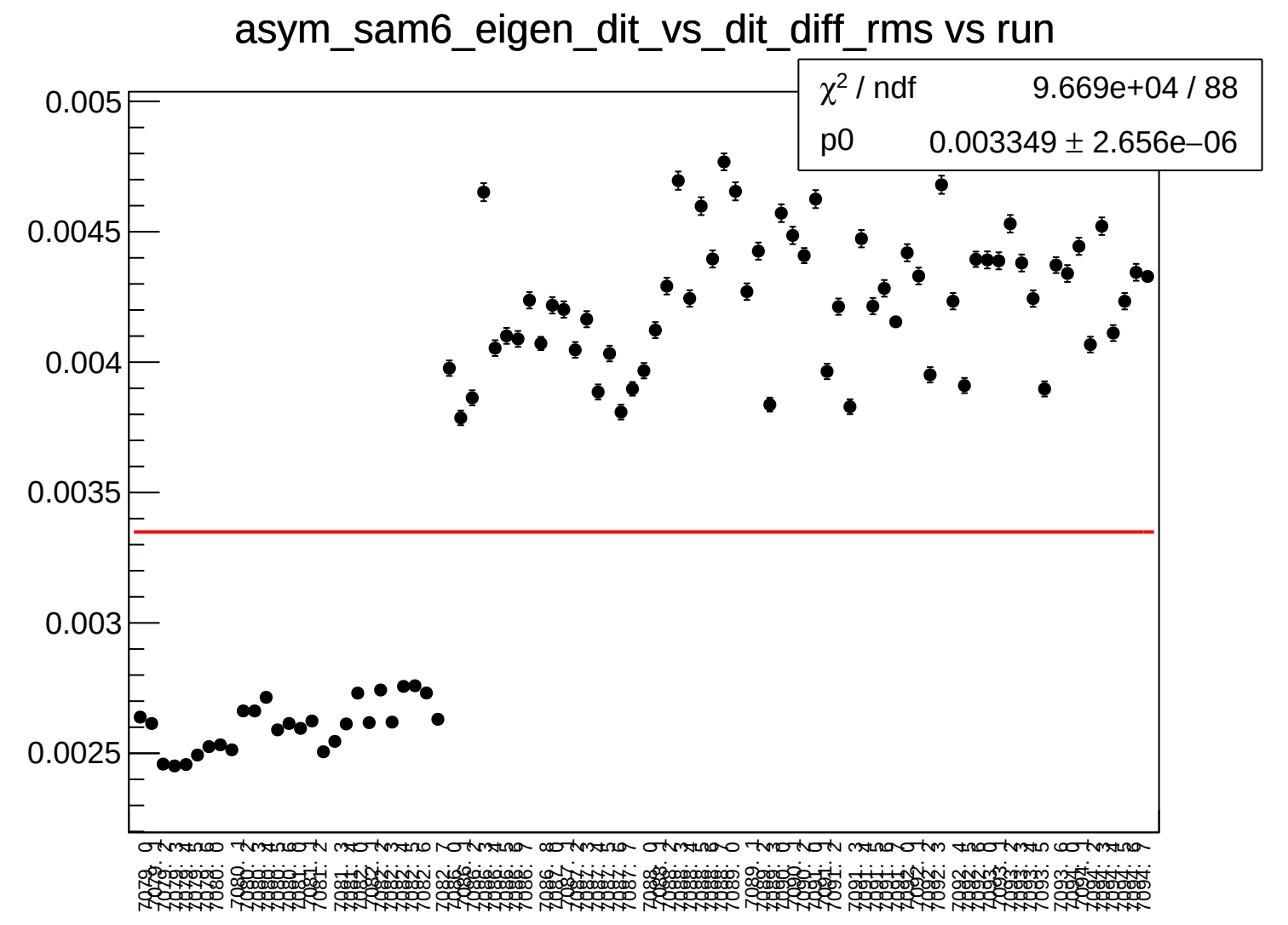

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.35 / 88
p0 0.03687 ± 0.04886
pull
Entries 89
Mean −52.11
Std Dev 0

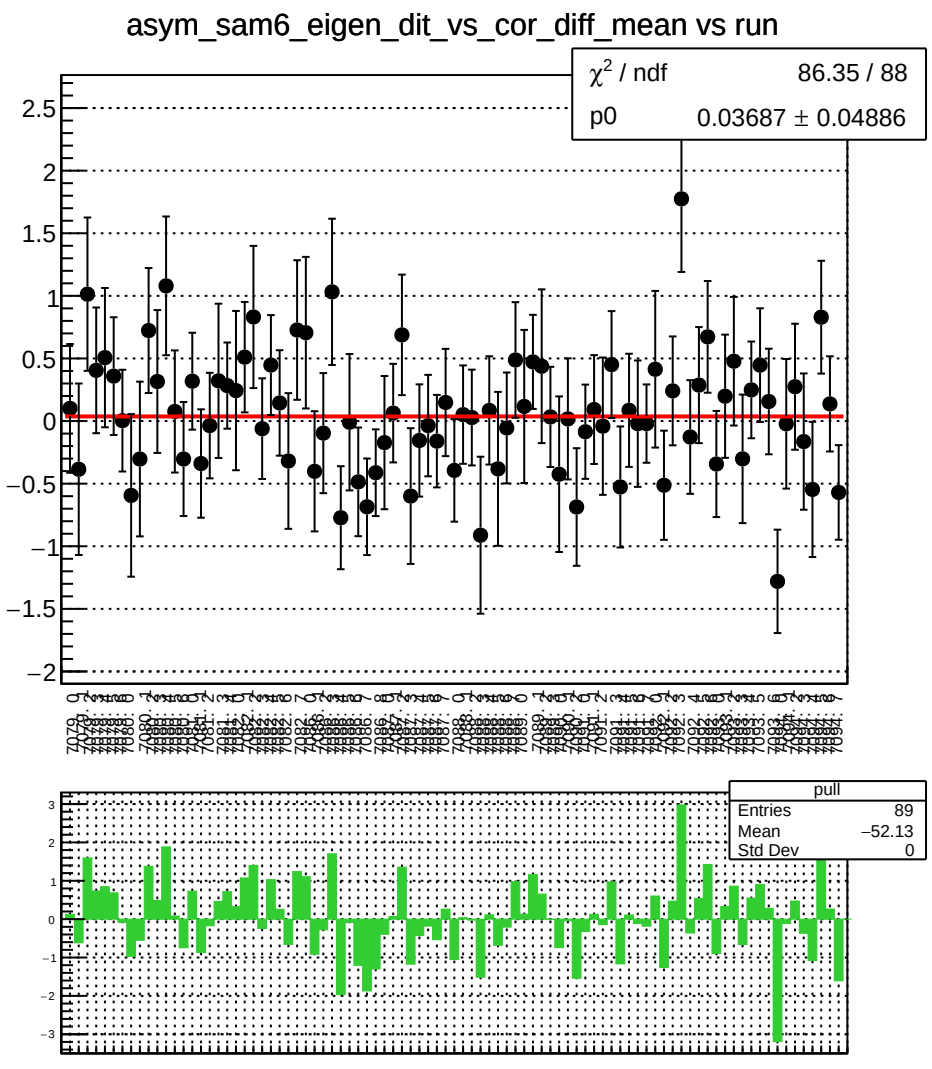

pull1D
Entries 89
Mean 0.03059
Std Dev 0.9845

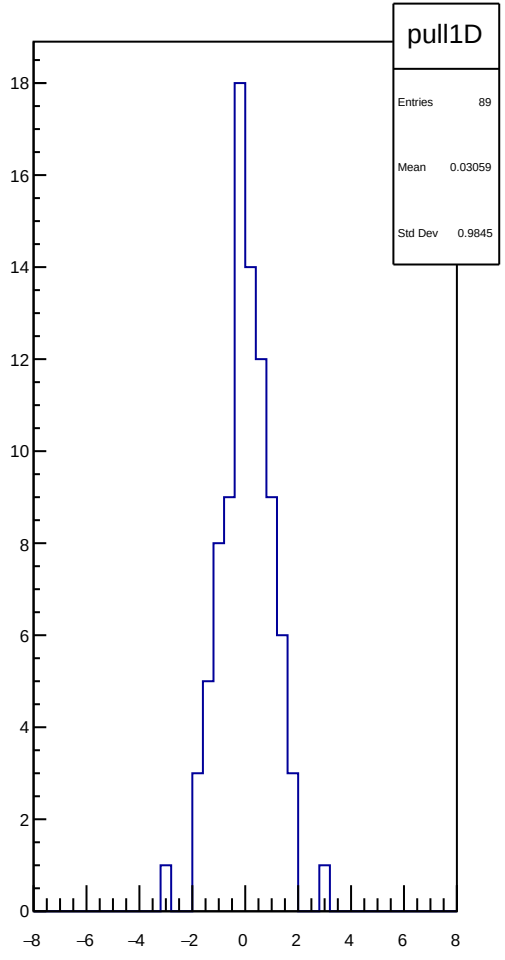

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.904e+04 / 88
p0 44.34 ± 0.03455
65
60
55
50
45
40
35

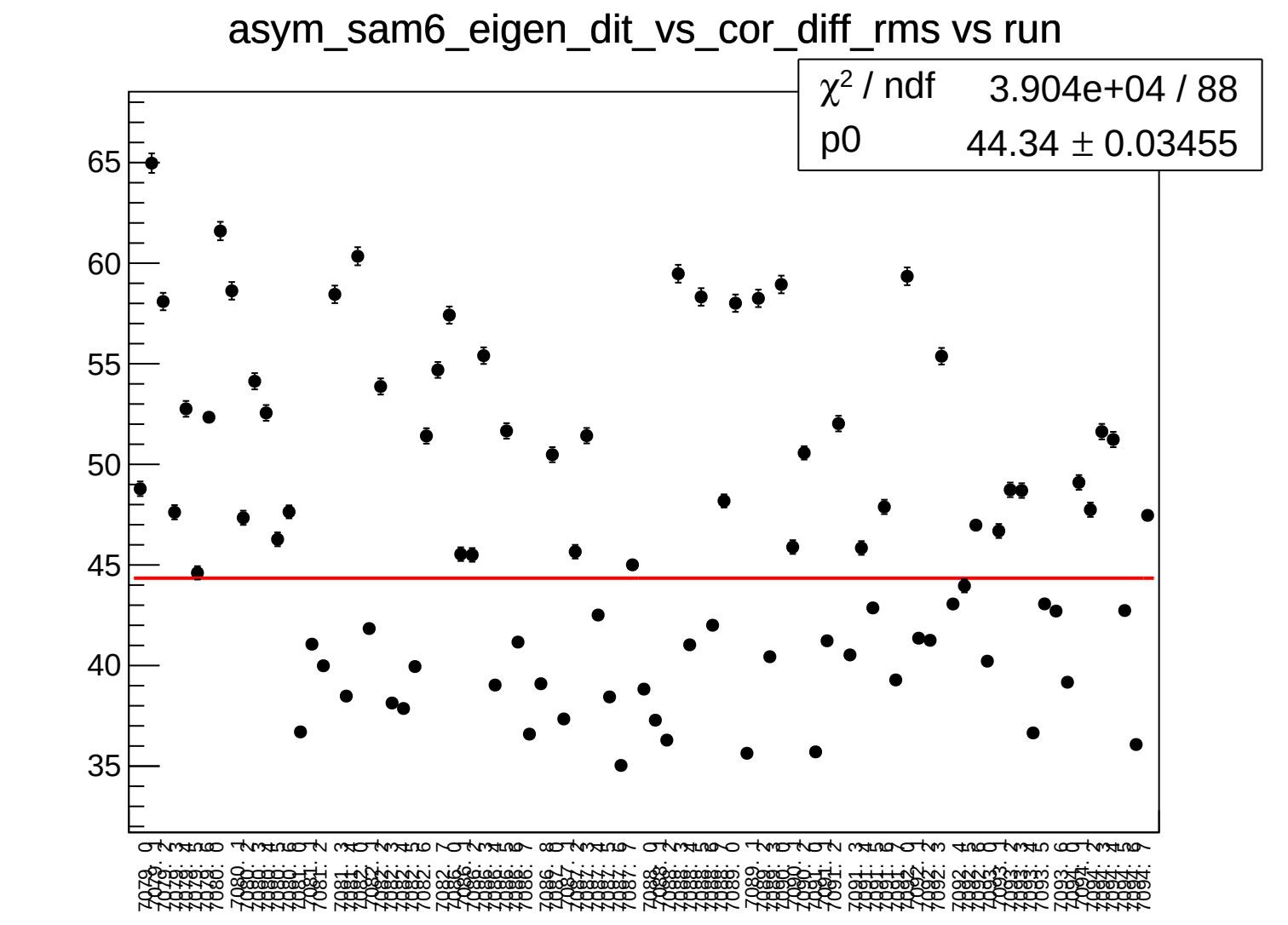

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.36 / 88
p0 −2.494e−06 ± 3.757e−06
pull
Entries 89
Mean 662.3
Std Dev 0

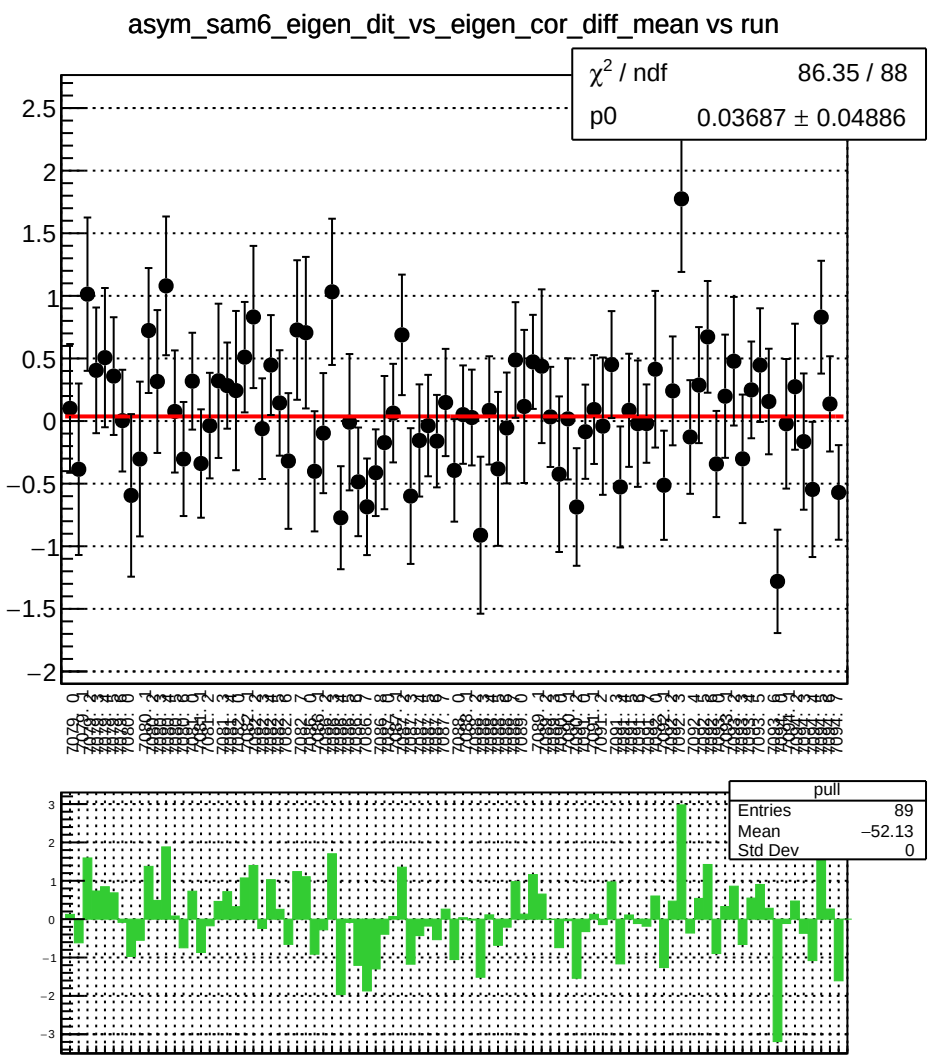

pull1D
Entries 89
Mean 0.00113
Std Dev 0.9202

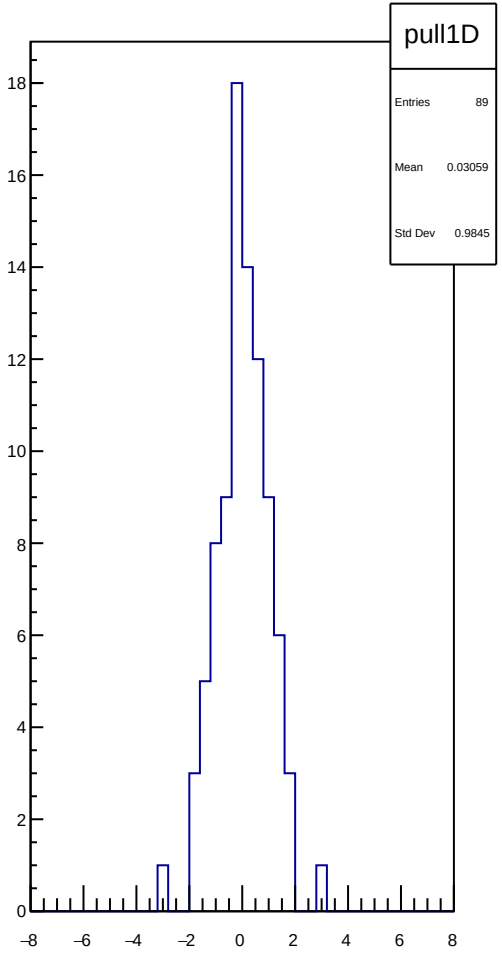

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.669e+04 / 88
p0 0.003349 ± 2.656e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

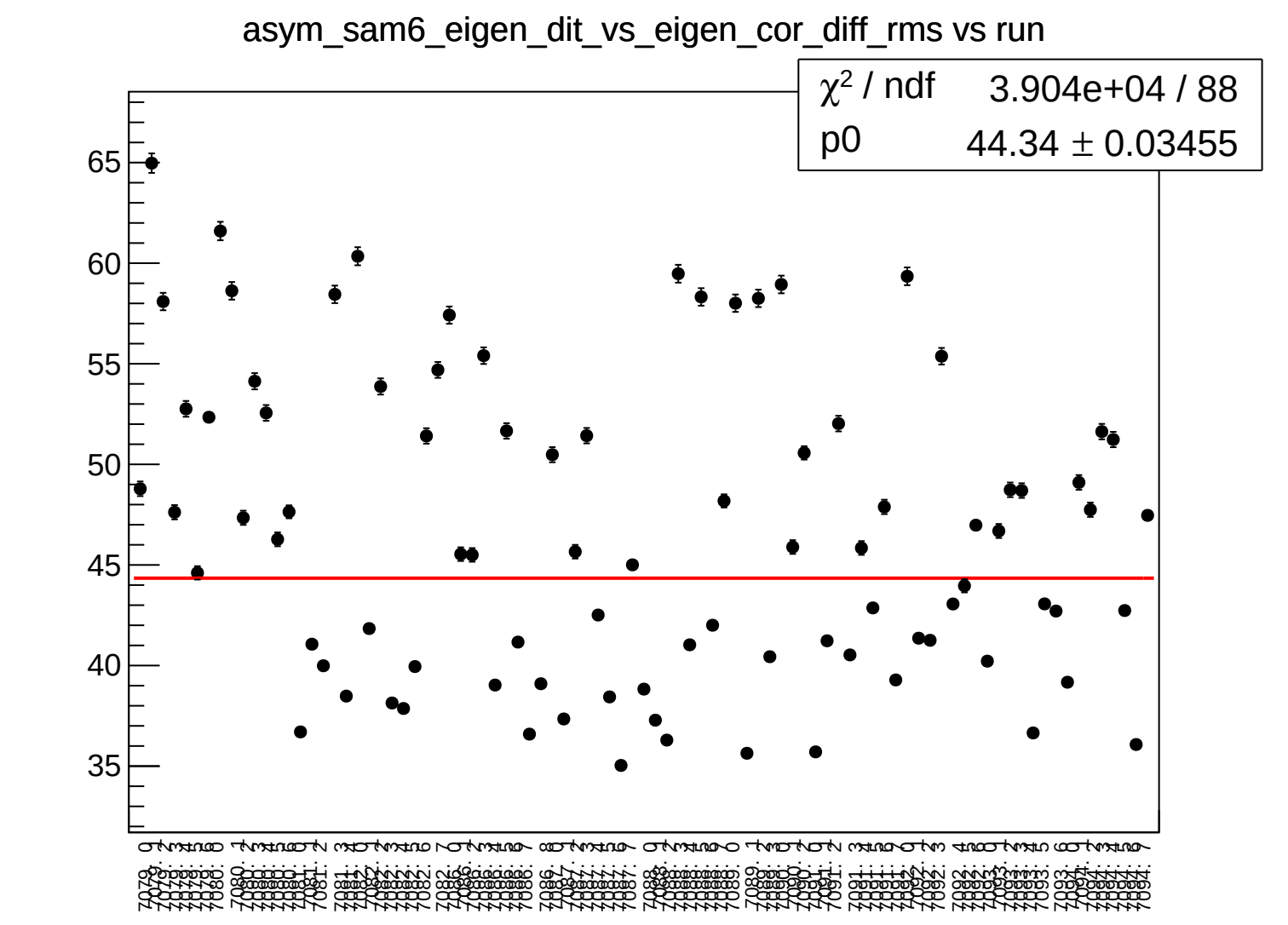

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.35 / 88
p0 0.03687 ± 0.04886
pull
Entries 89
Mean −52.13
Std Dev 0

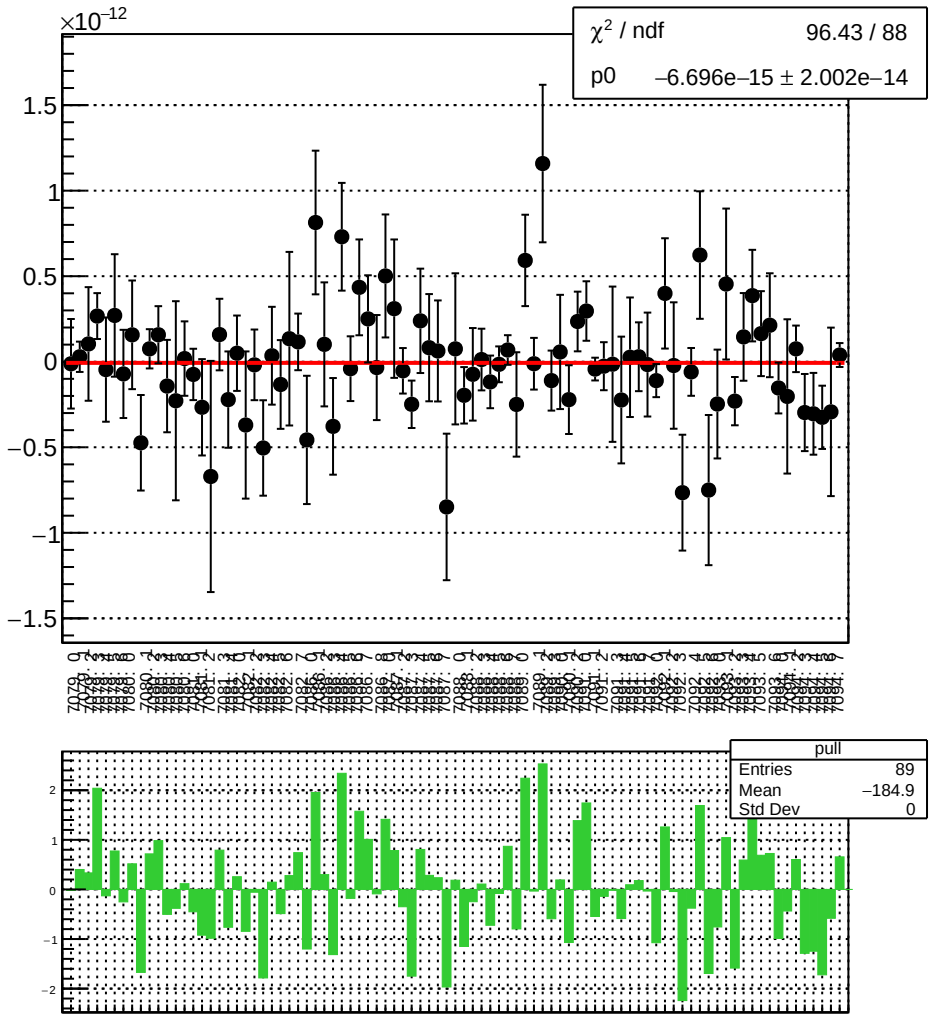

pull1D
Entries 89
Mean 0.03059
Std Dev 0.9845

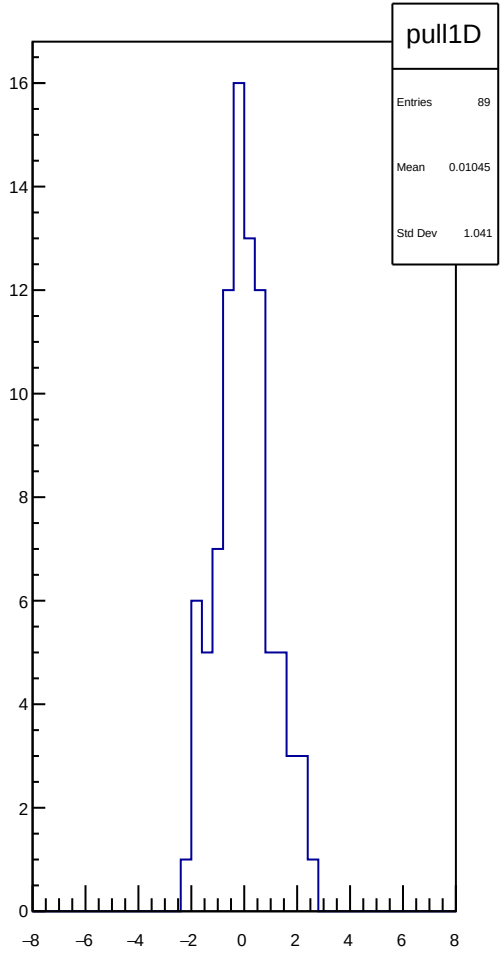

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.904e+04 / 88
p0 44.34 ± 0.03455
65
60
55
50
45
40
35

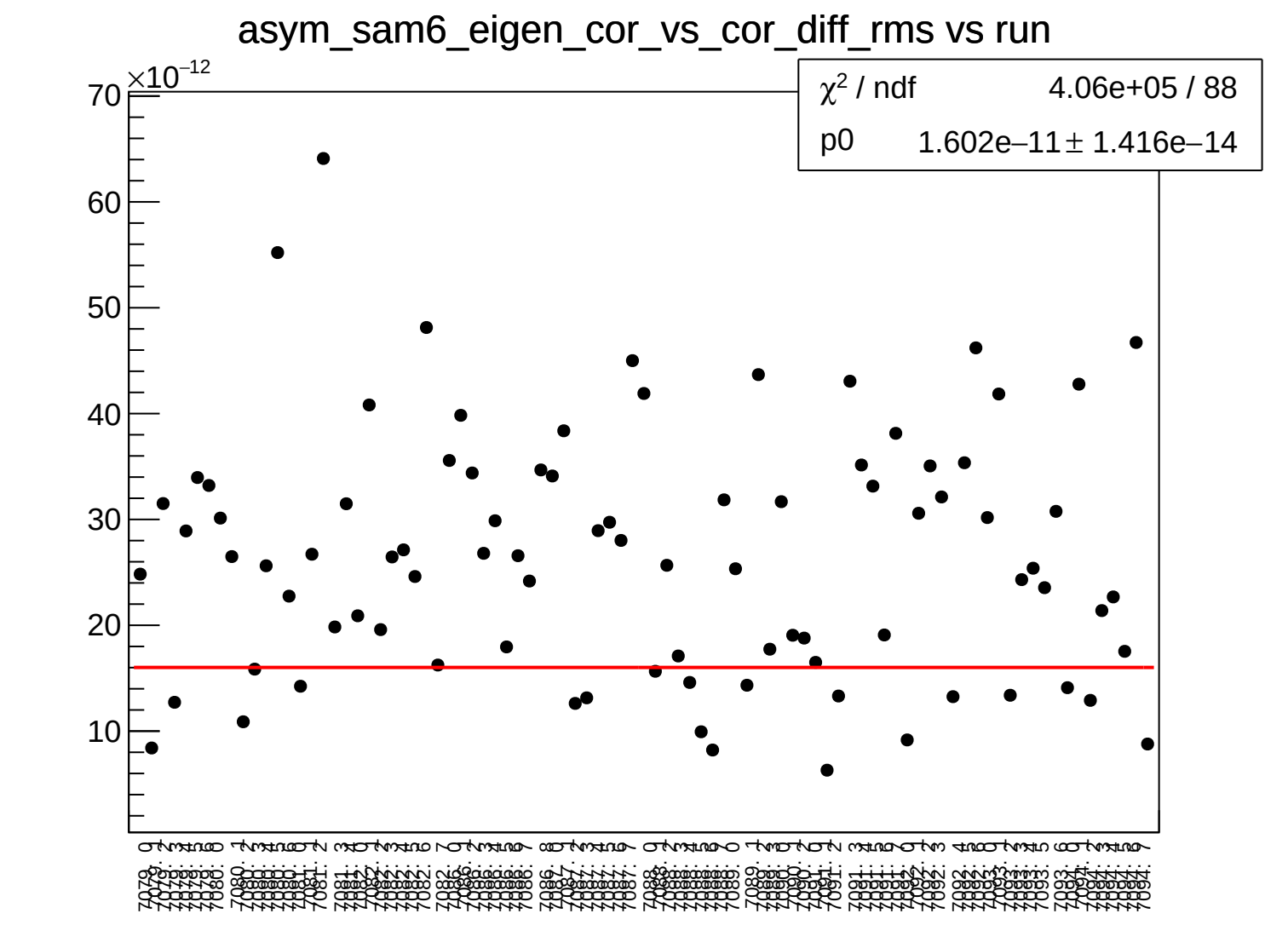

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.35 / 88
p0 0.03687 ± 0.04886
pull
Entries 89
Mean −52.13
Std Dev 0

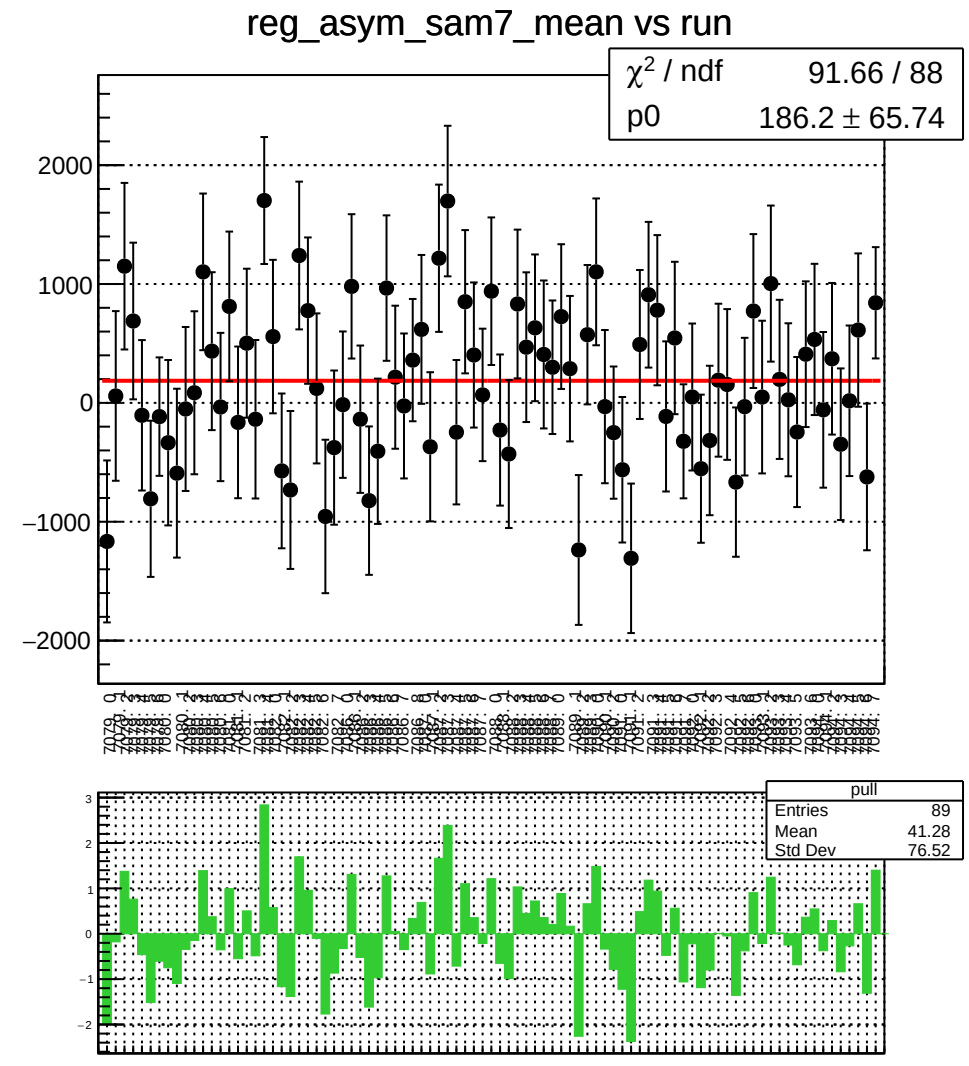

pull1D
Entries 89
Mean 0.03059
Std Dev 0.9845

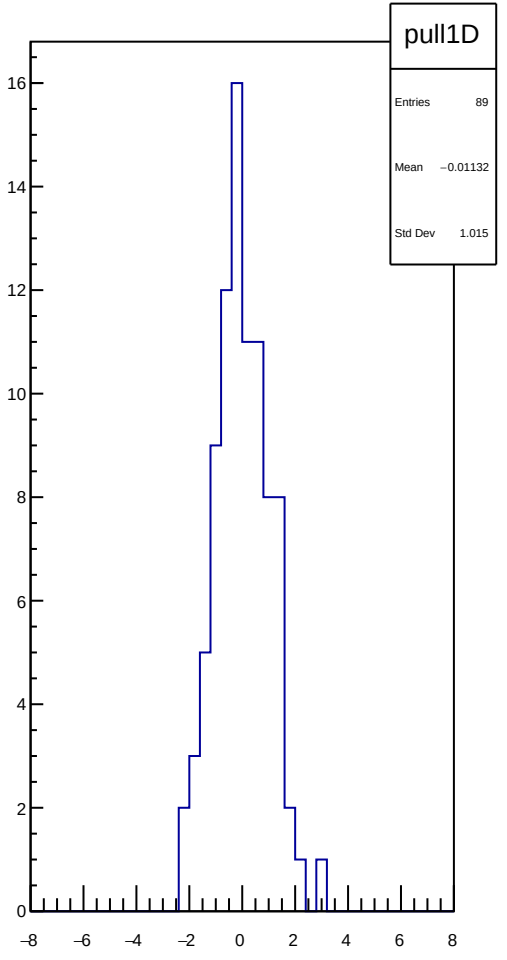

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.904e+04 / 88
p0 44.34 ± 0.03455
65
60
55
50
45
40
35

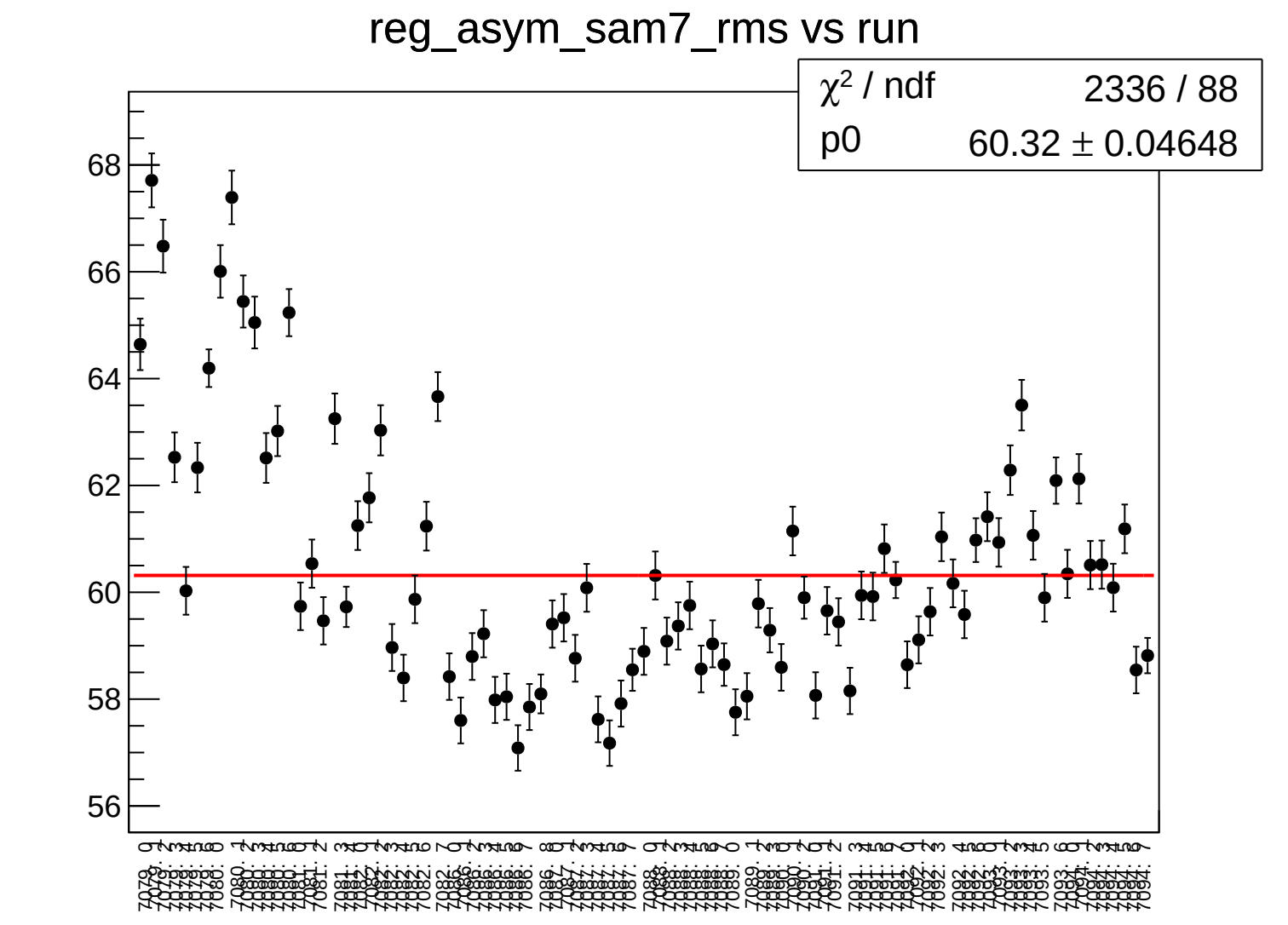

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.43 / 88
p0 −6.696e−15 ± 2.002e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 89
Mean −184.9
Std Dev 0
2
1
0
−1
−2

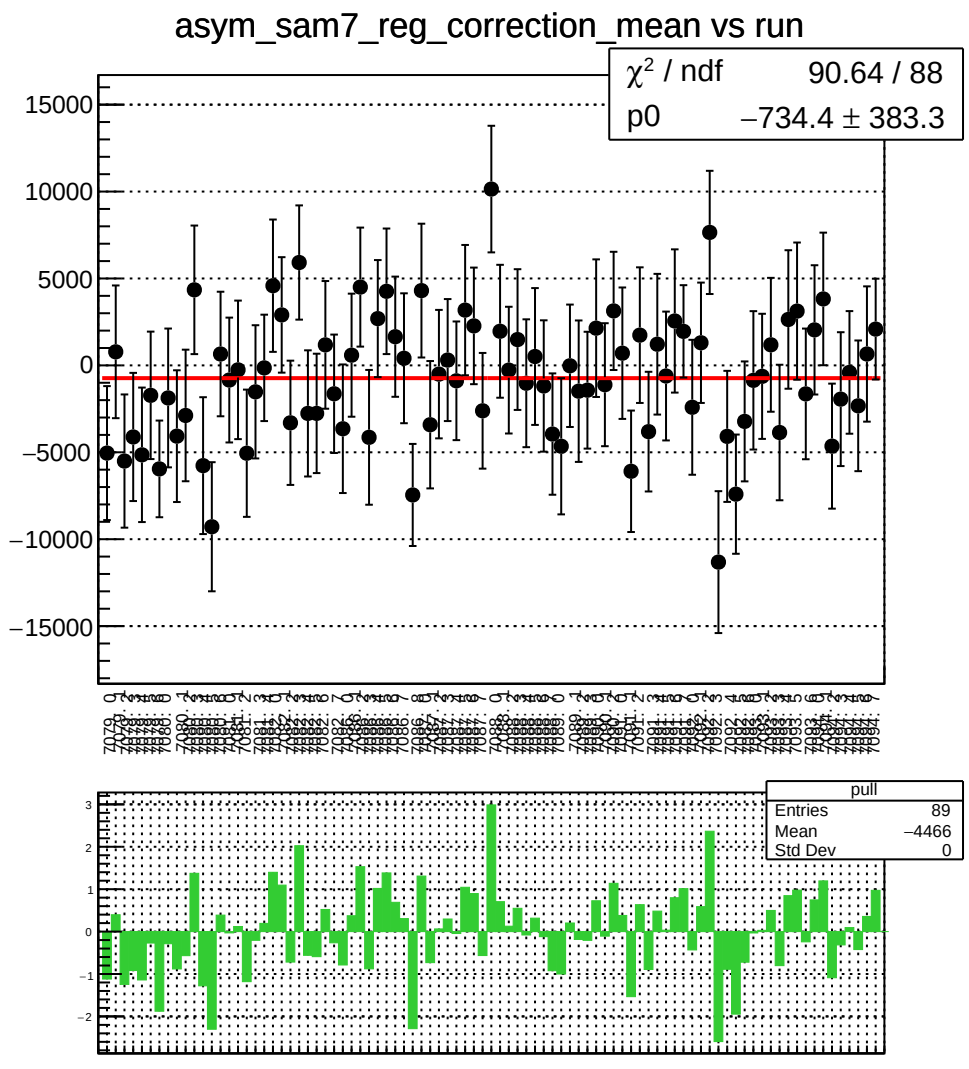

pull1D
Entries 89
Mean 0.01045
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

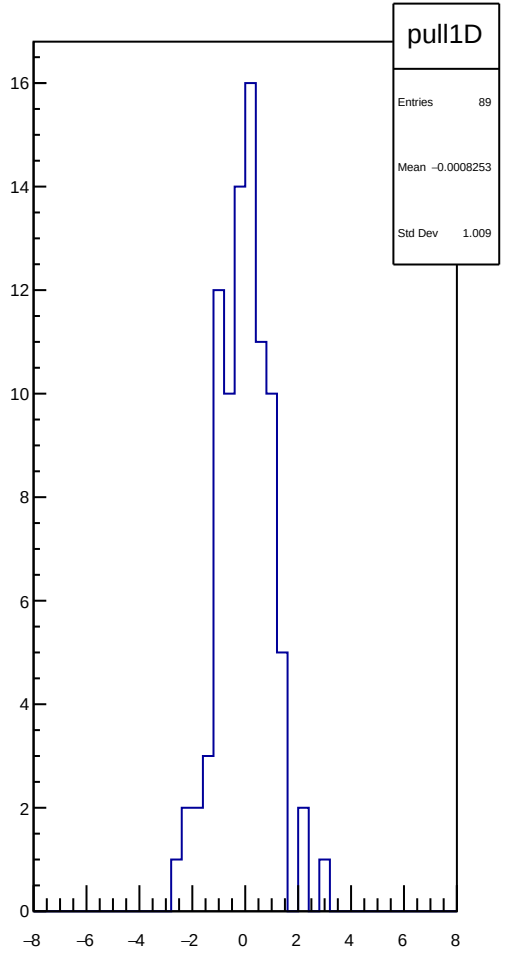

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 4.06e+05 / 88
p0 1.602e−11 ± 1.416e−14

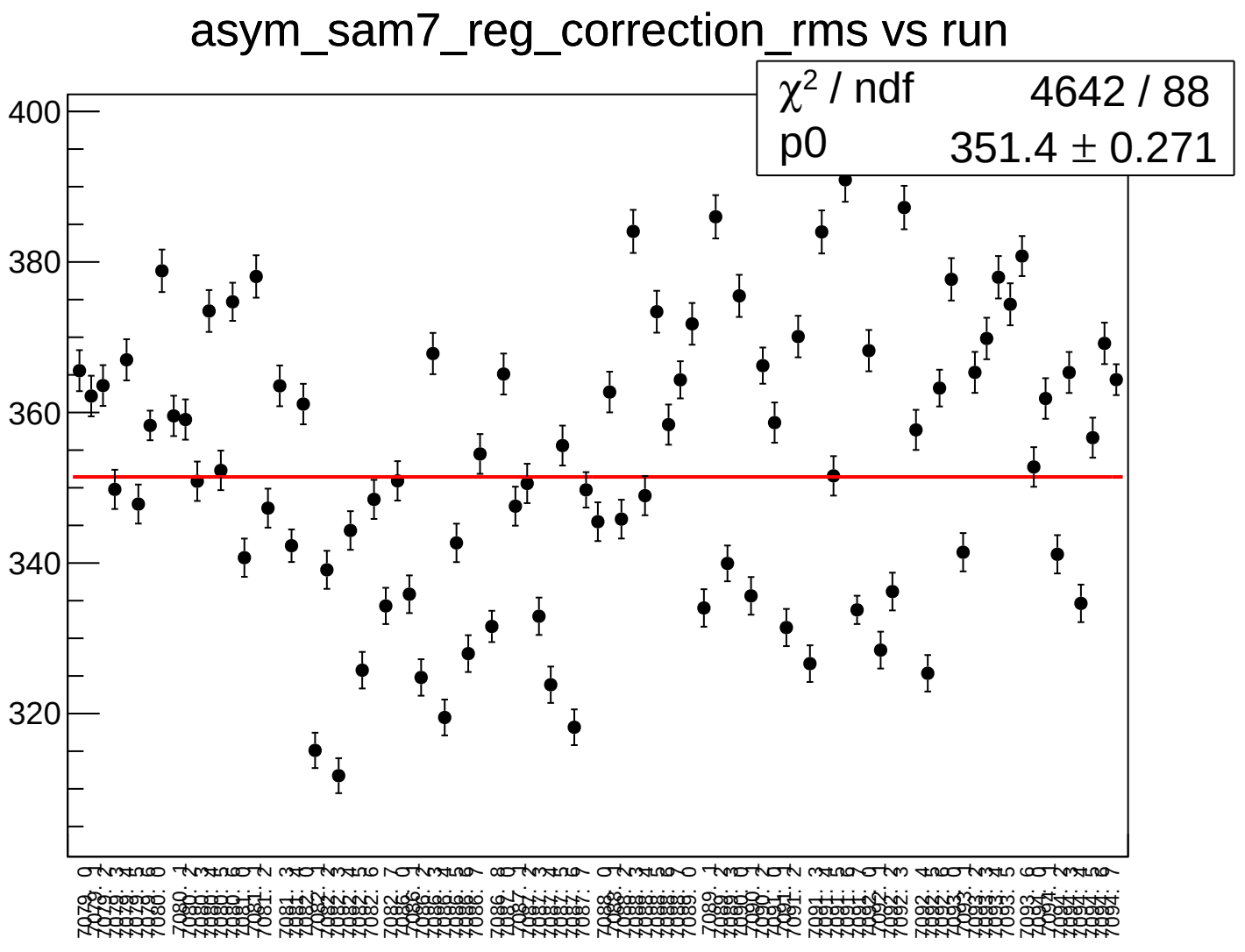

reg_asym_sam7_mean vs run
χ² / ndf 91.66 / 88
p0 186.2 ± 65.74
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 41.28
Std Dev 76.52
3
2
1
0
−1
−2

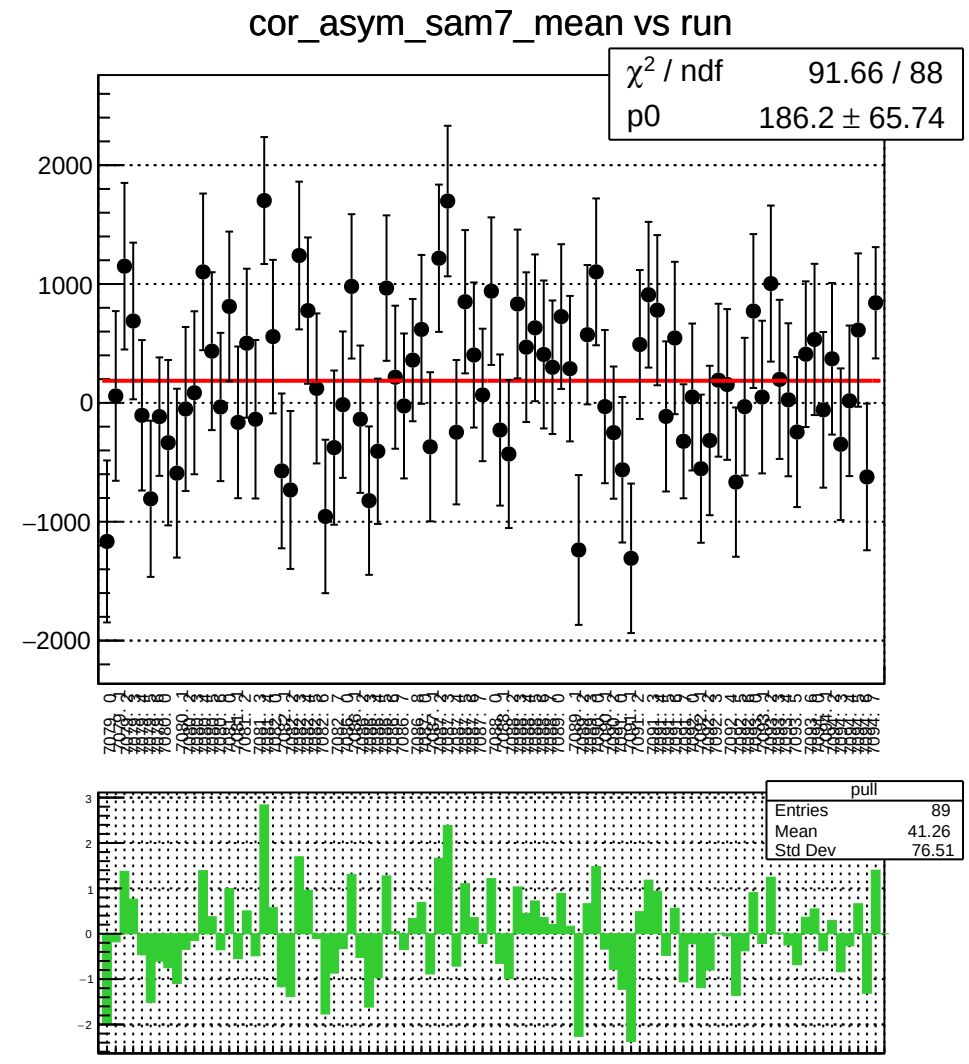

pull1D
Entries 89
Mean −0.01132
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

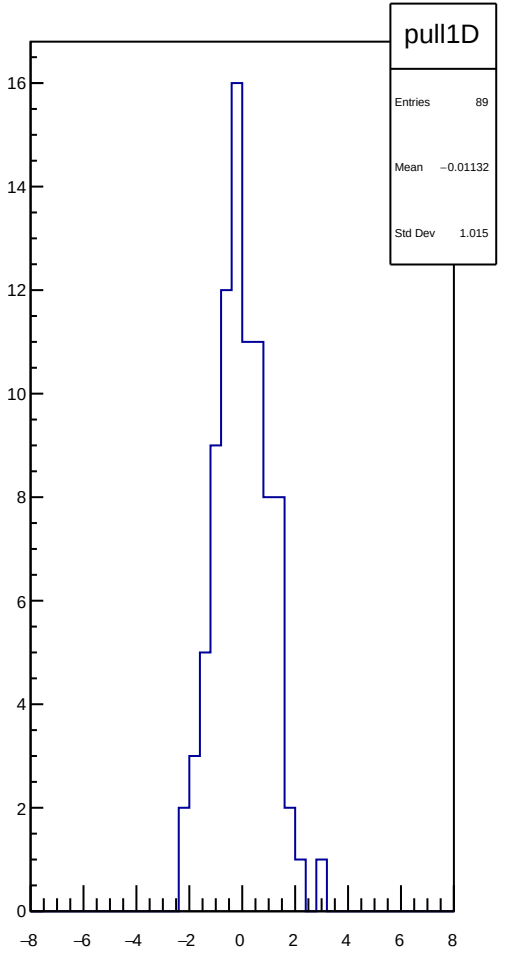

reg_asym_sam7_rms vs run
χ² / ndf 2336 / 88
p0 60.32 ± 0.04648
68
66
64
62
60
58
56

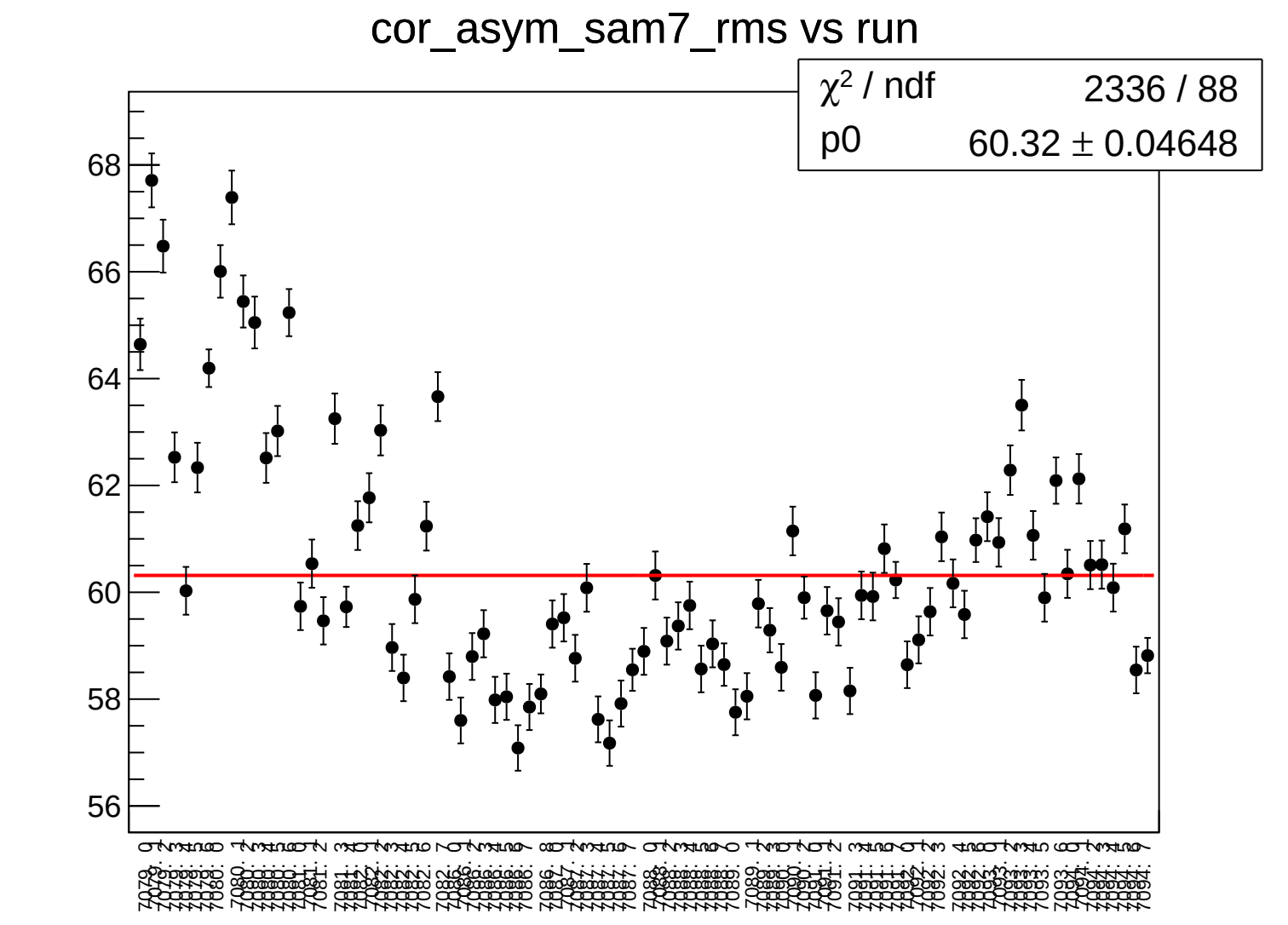

asym_sam7_reg_correction_mean vs run
χ² / ndf 90.64 / 88
p0 −734.4 ± 383.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −4466
Std Dev 0
3
2
1
0
−1
−2

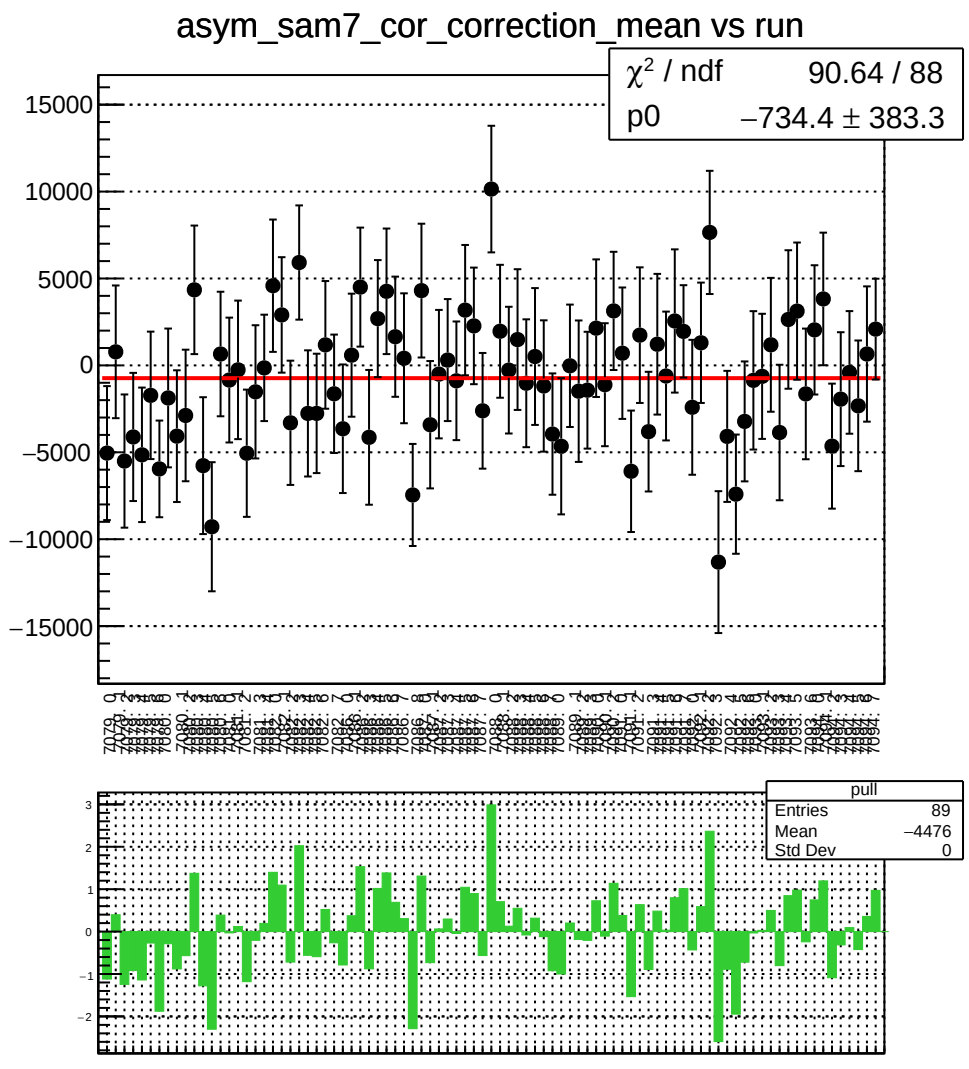

pull1D
Entries 89
Mean −0.0008253
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

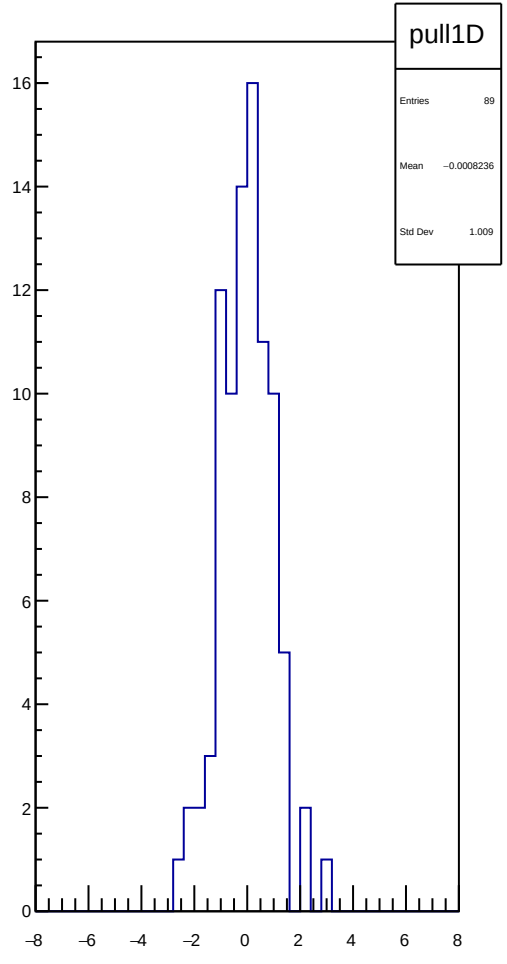

asym_sam7_reg_correction_rms vs run
χ² / ndf 4642 / 88
p0 351.4 ± 0.271
400
380
360
340
320

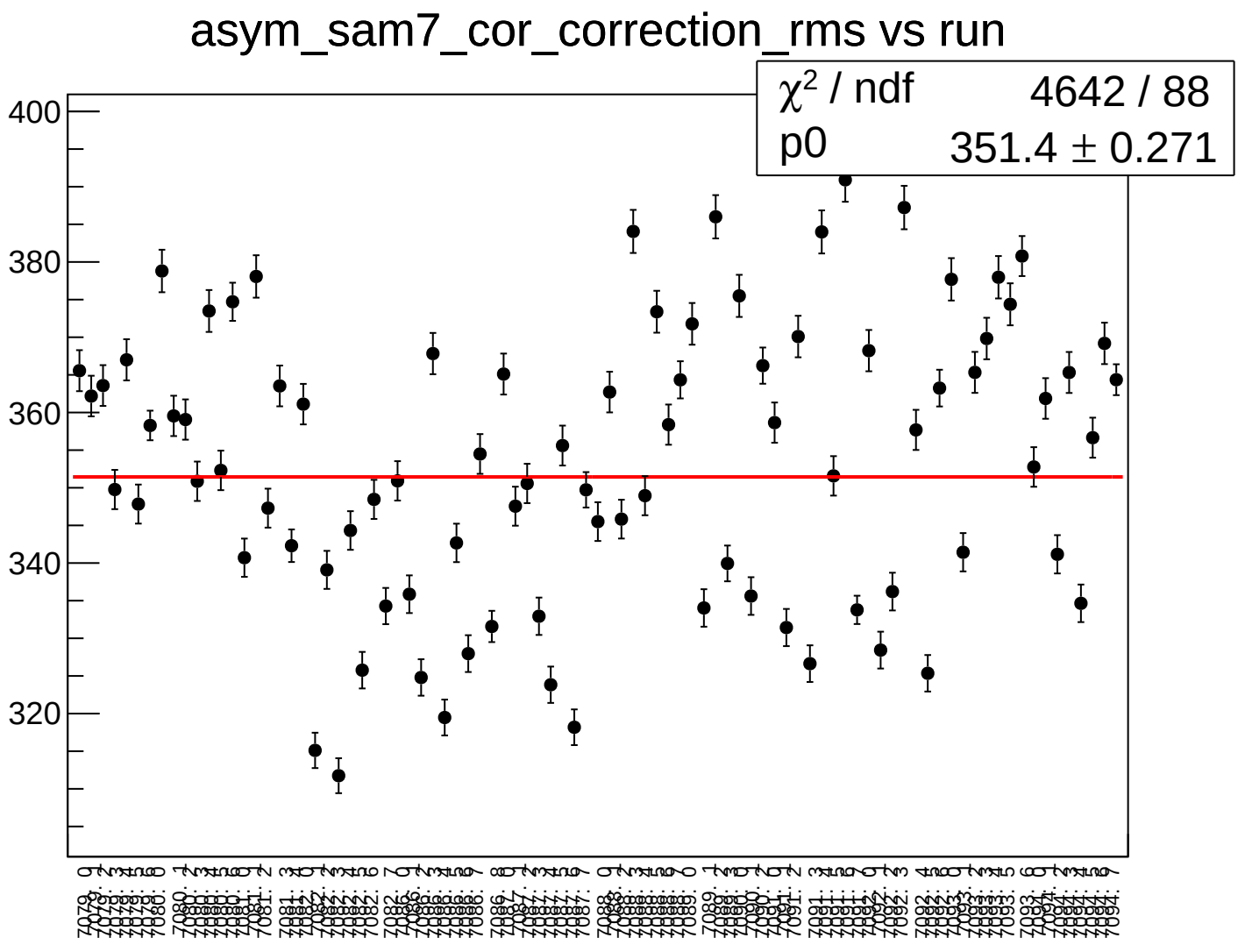

cor_asym_sam7_mean vs run
χ² / ndf 91.66 / 88
p0 186.2 ± 65.74
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 41.26
Std Dev 76.51
3
2
1
0
−1
−2

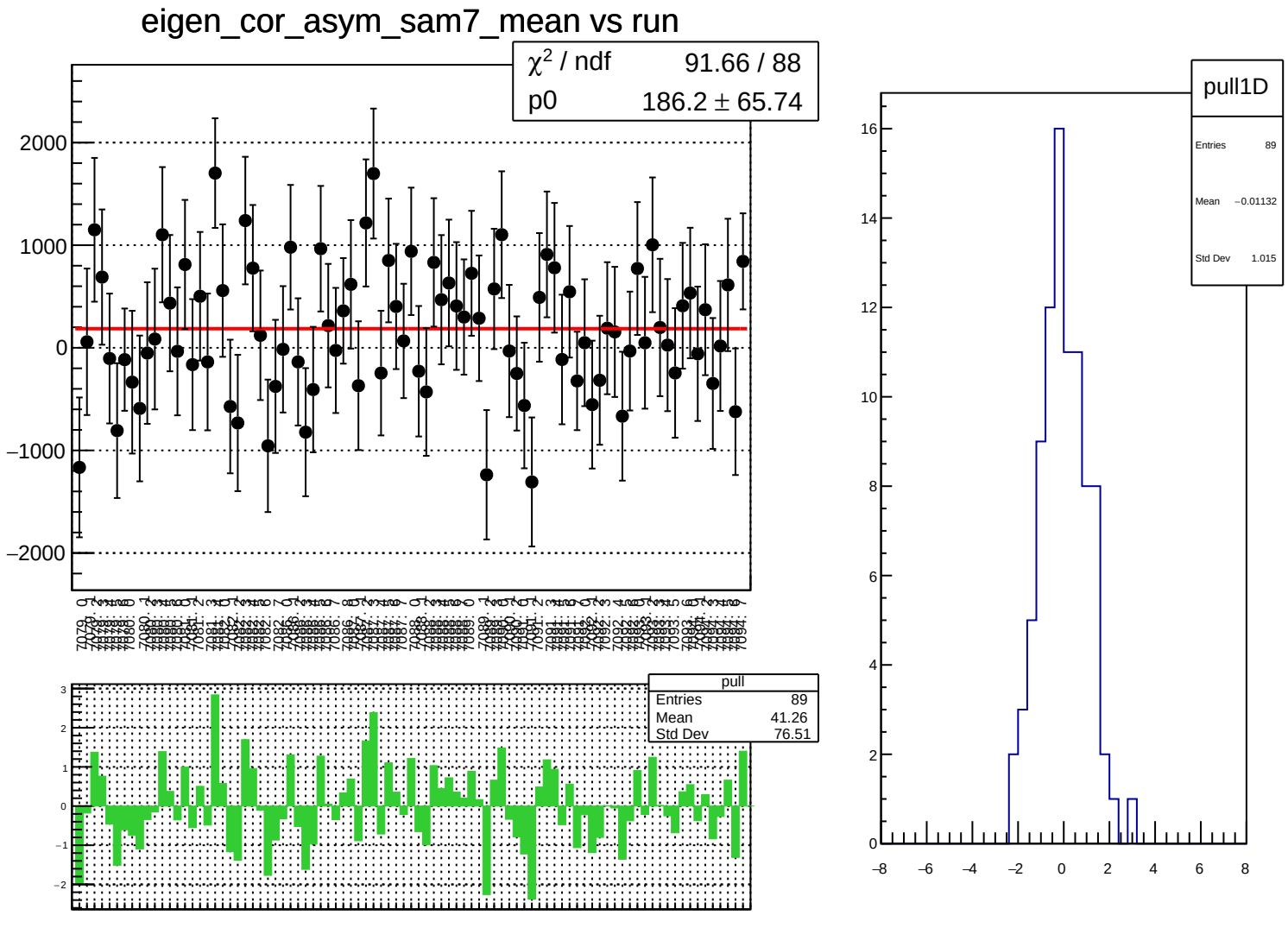

pull1D
Entries 89
Mean −0.01132
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

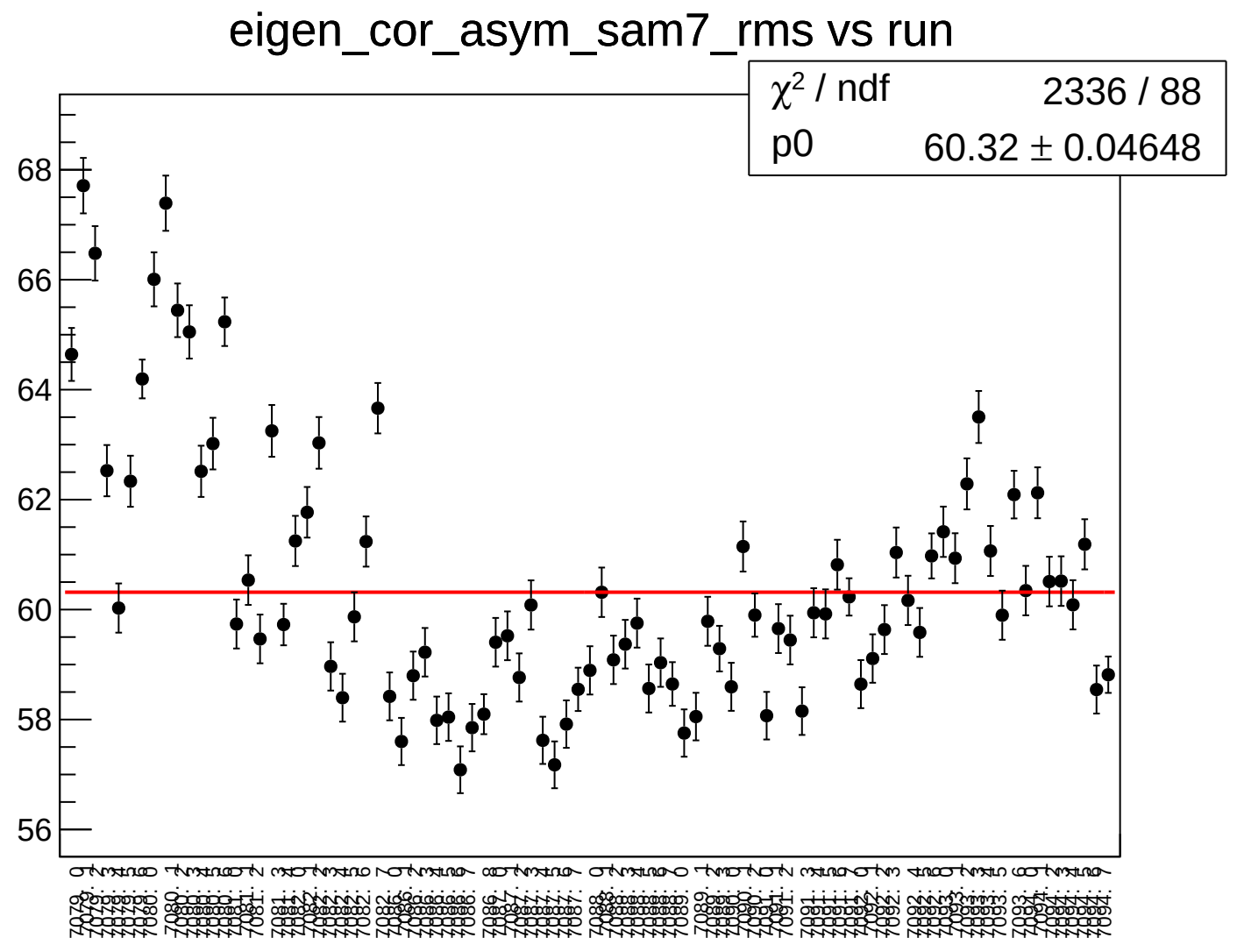

cor_asym_sam7_rms vs run
χ² / ndf 2336 / 88
p0 60.32 ± 0.04648
68
66
64
62
60
58
56

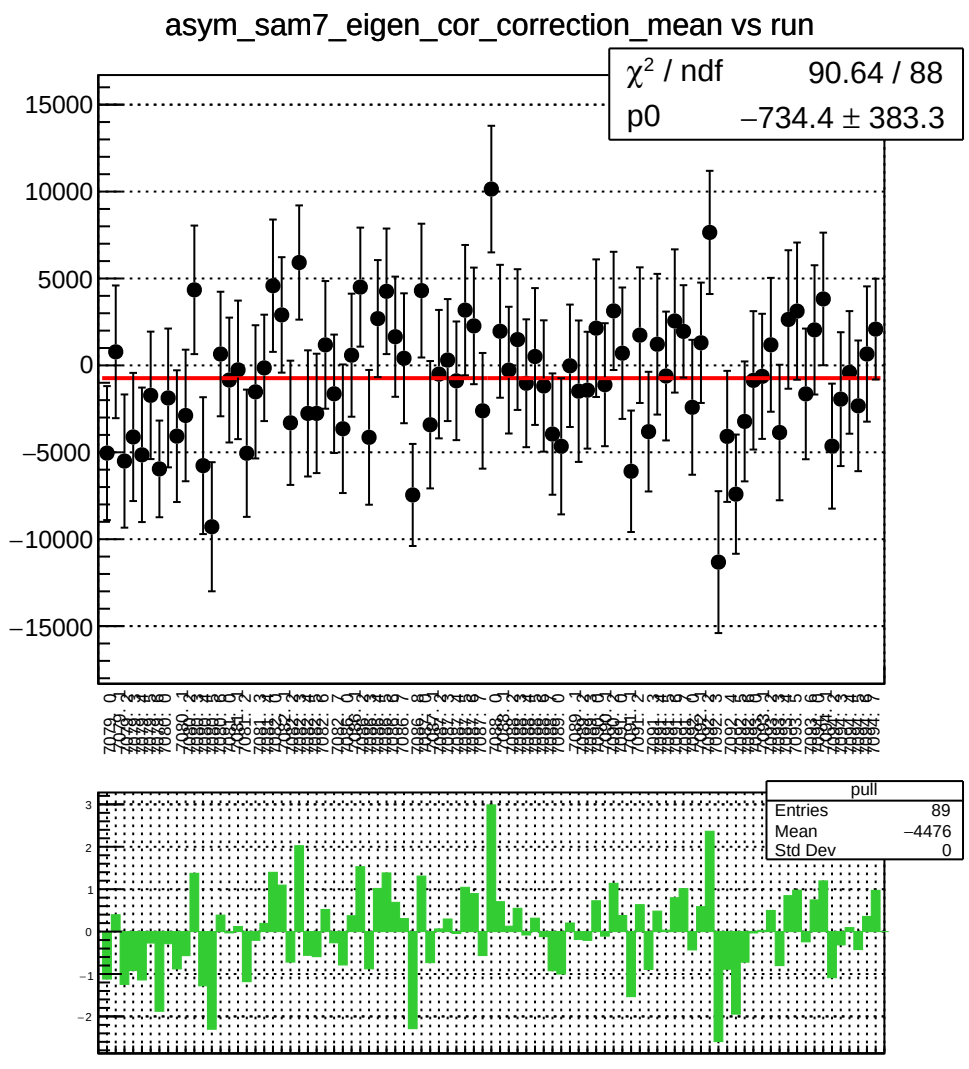

asym_sam7_cor_correction_mean vs run
χ² / ndf 90.64 / 88
p0 −734.4 ± 383.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −4476
Std Dev 0
3
2
1
0
−1
−2

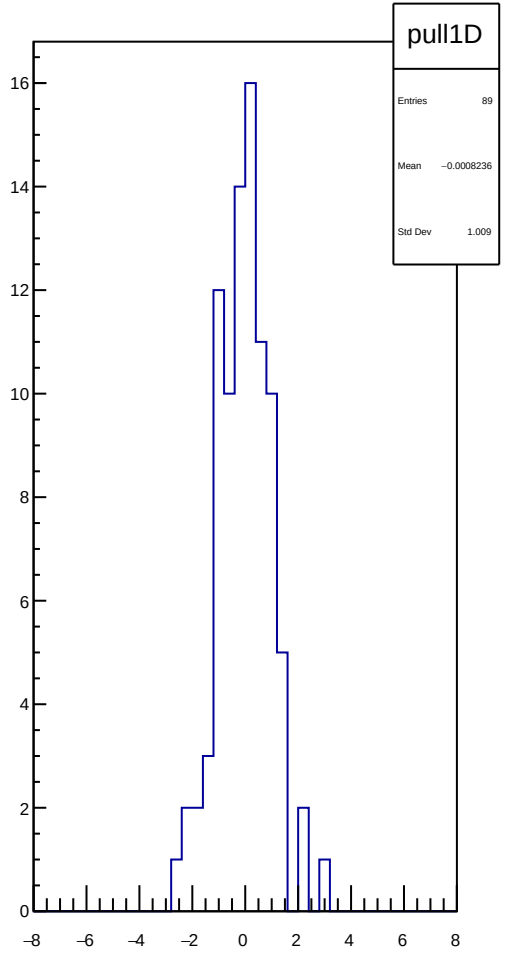

pull1D
Entries 89
Mean −0.0008236
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

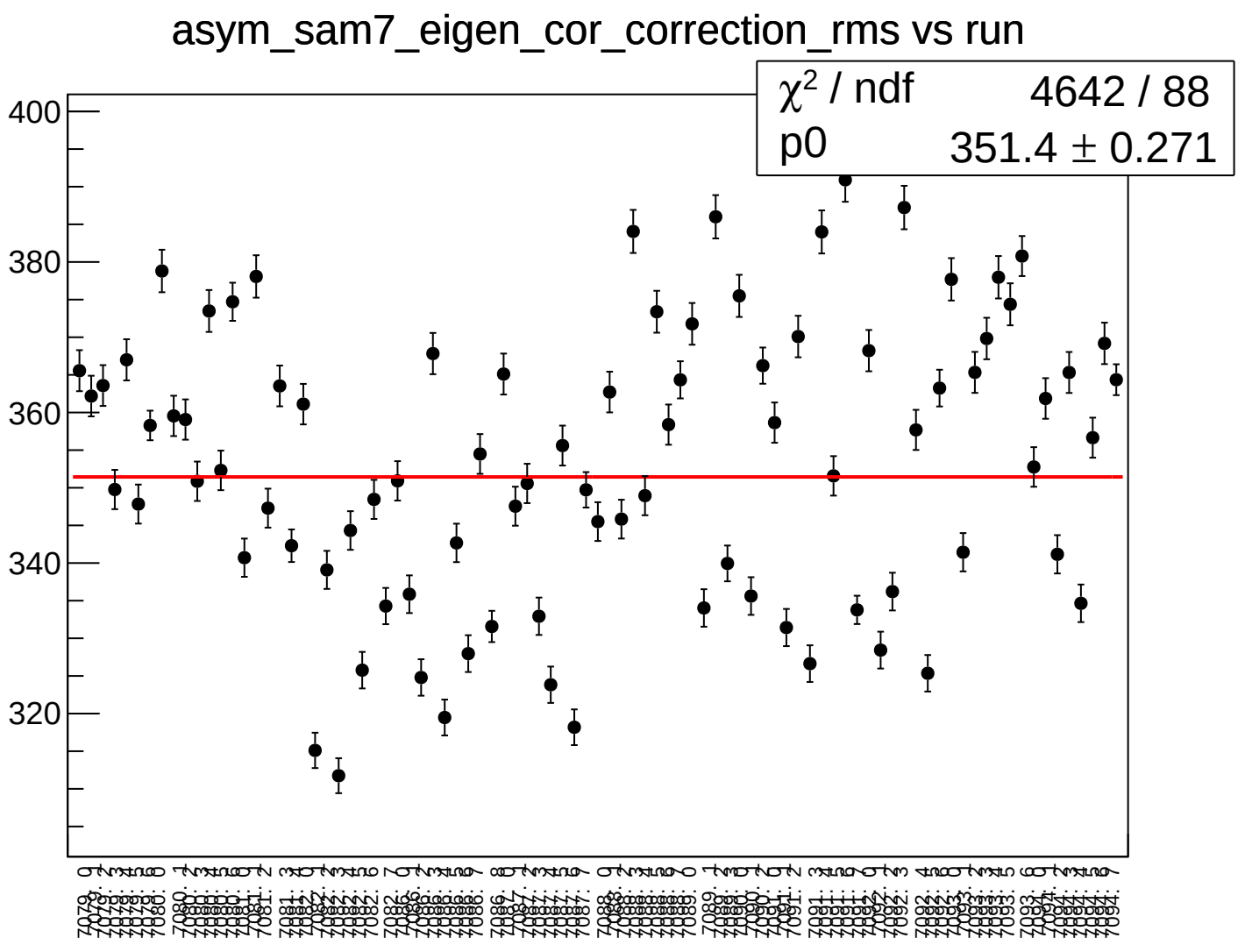

asym_sam7_cor_correction_rms vs run
χ² / ndf 4642 / 88
p0 351.4 ± 0.271
400
380
360
340
320

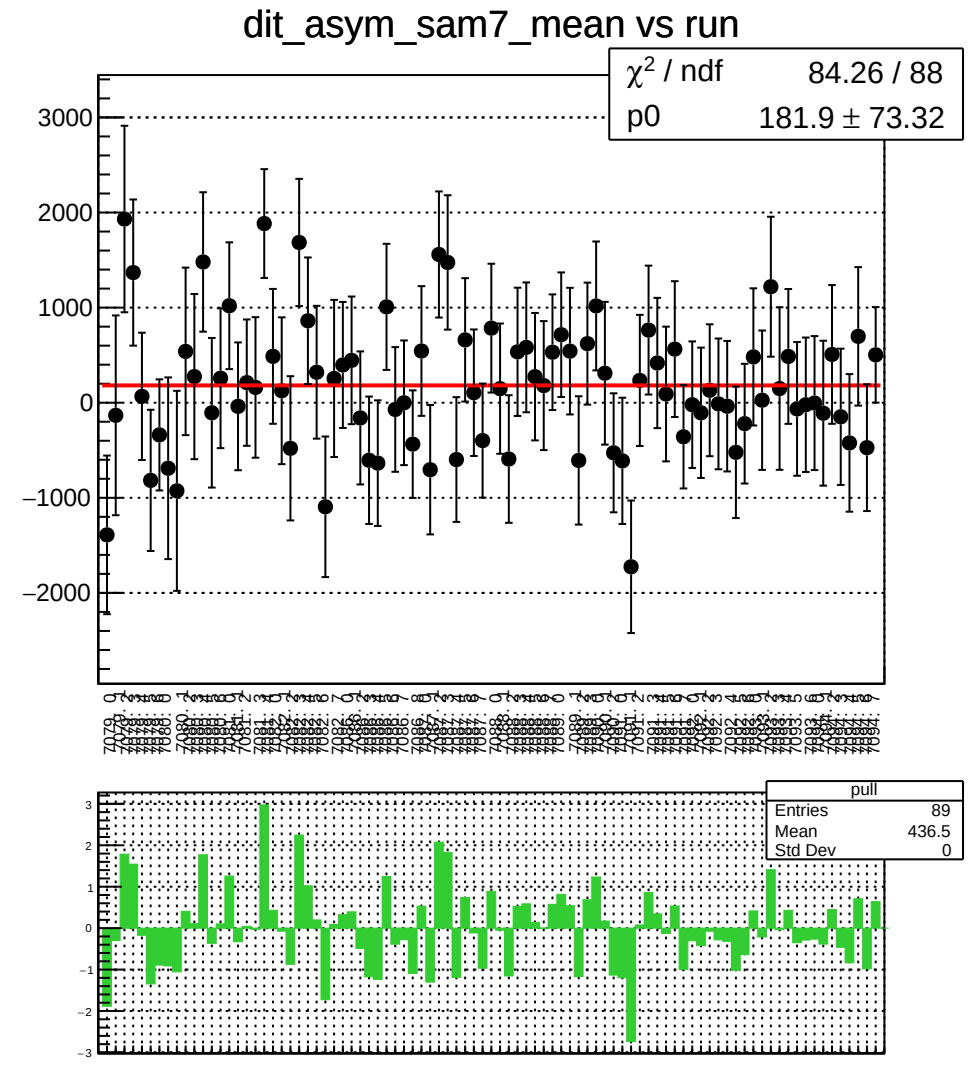

eigen_cor_asym_sam7_mean vs run
χ² / ndf 91.66 / 88
p0 186.2 ± 65.74
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 41.26
Std Dev 76.51
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01132
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

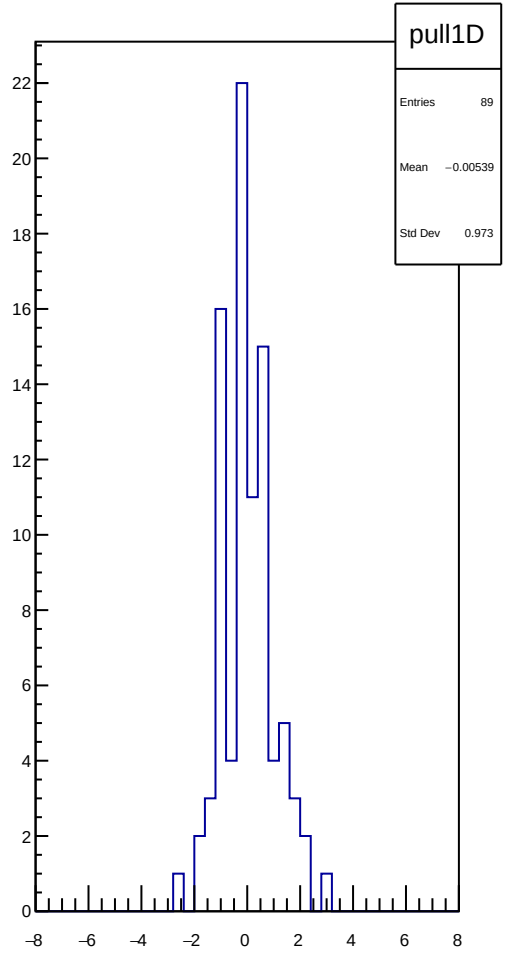

eigen_cor_asym_sam7_rms vs run
χ² / ndf 2336 / 88
p0 60.32 ± 0.04648
68
66
64
62
60
58
56

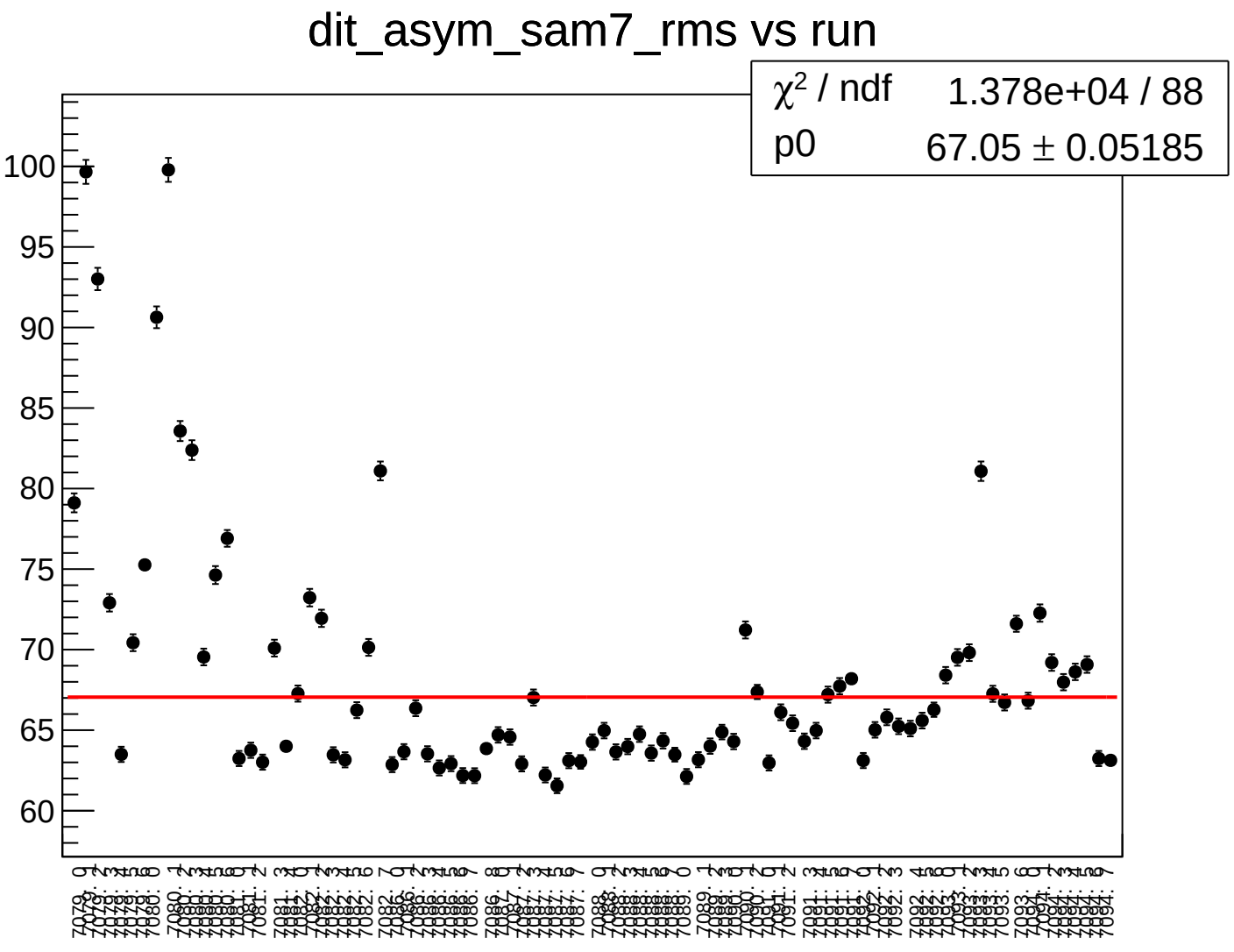

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 90.64 / 88
p0 −734.4 ± 383.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −4476
Std Dev 0
3
2
1
0
−1
−2

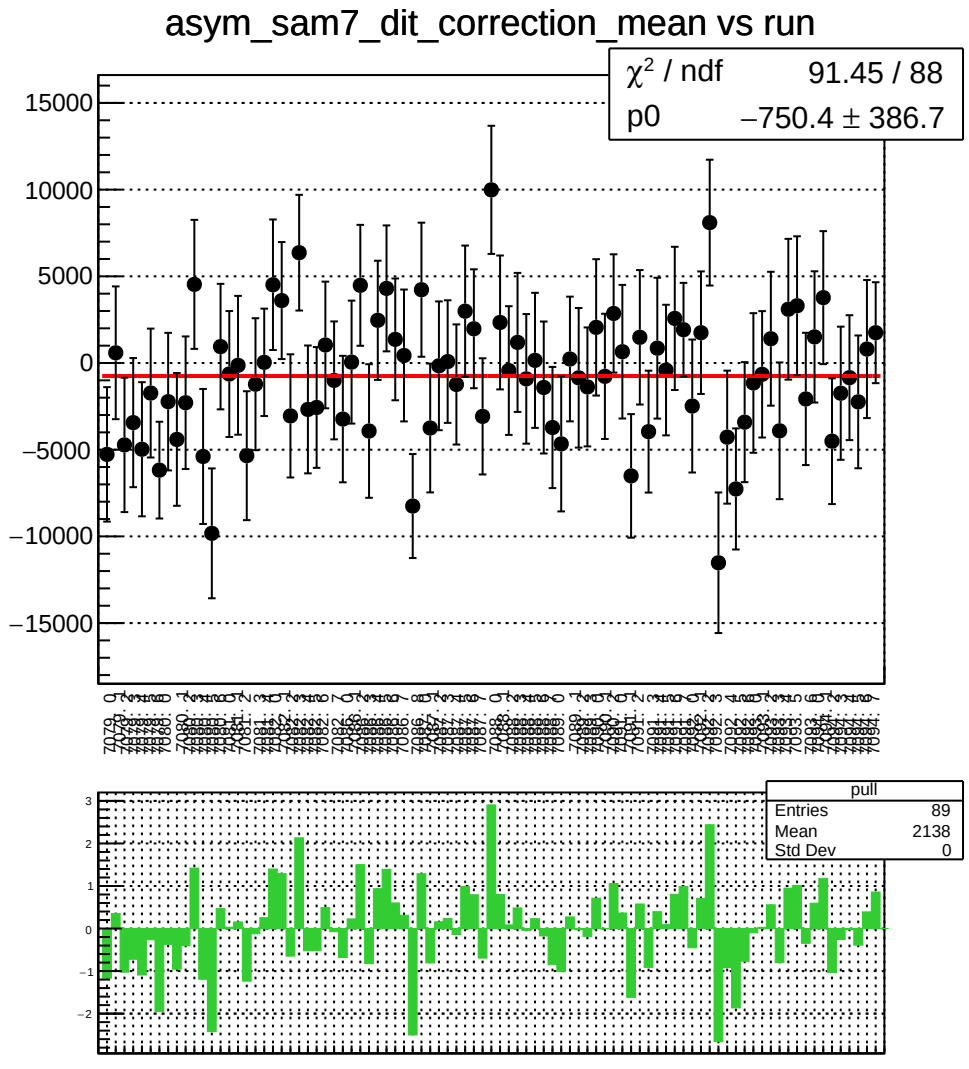

pull1D
Entries 89
Mean −0.0008236
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

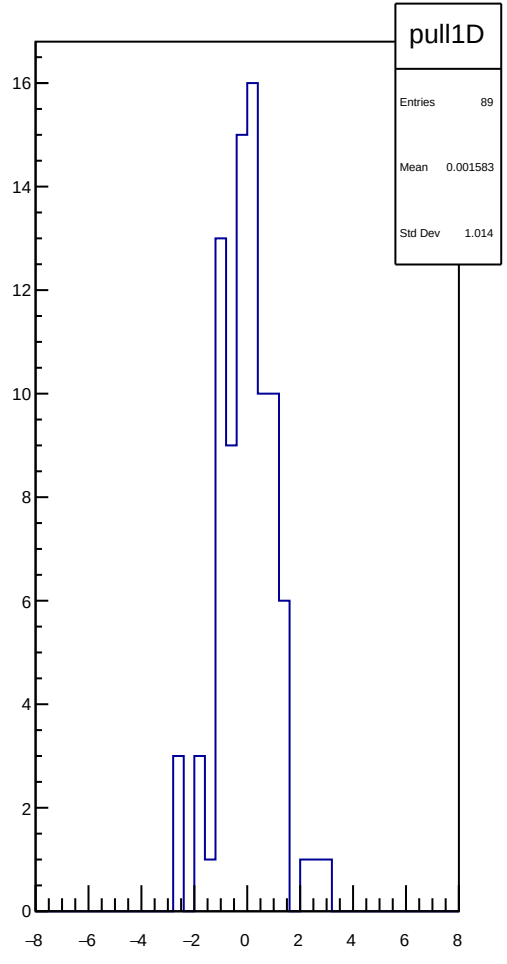

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 4642 / 88
p0 351.4 ± 0.271
400
380
360
340
320

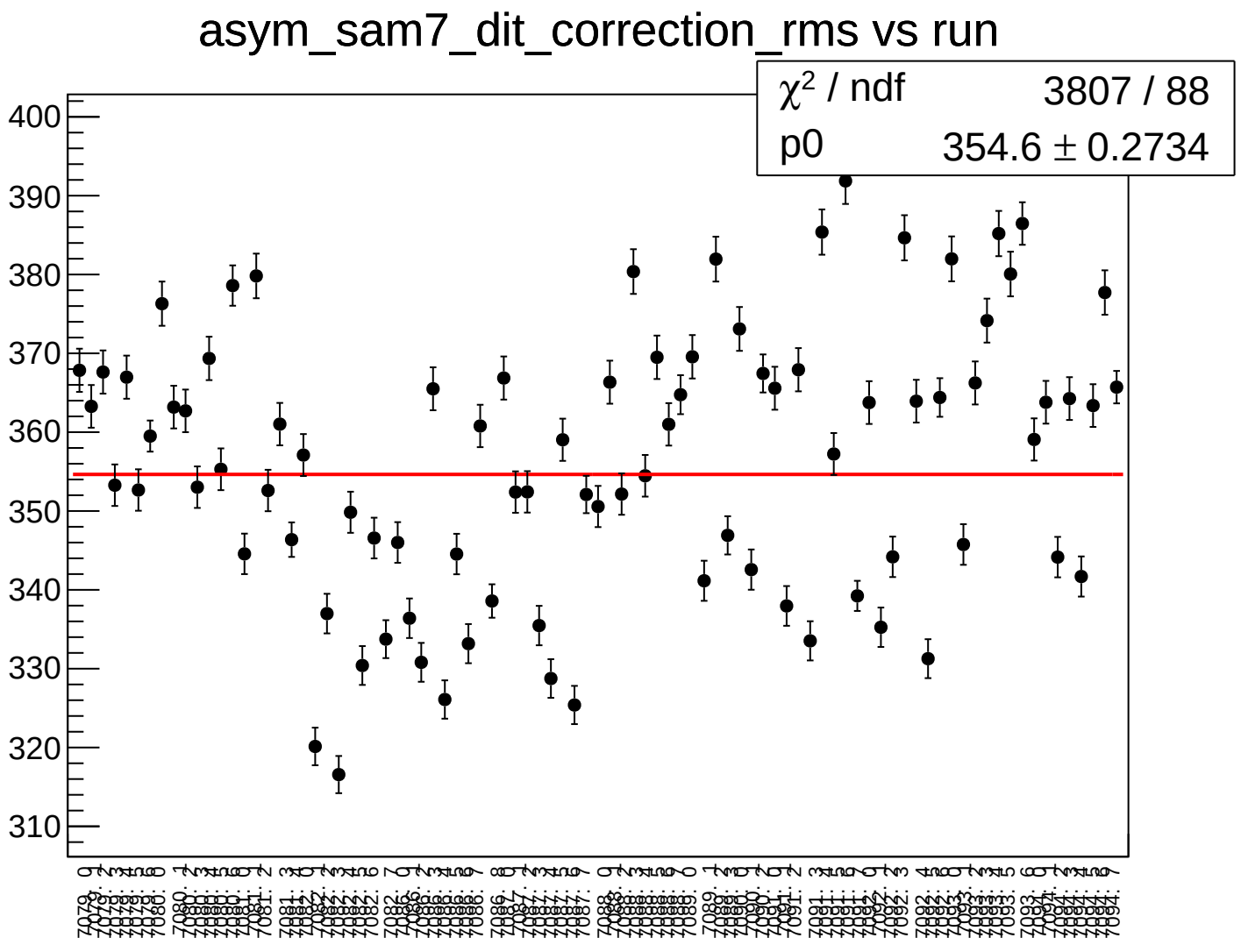

dit_asym_sam7_mean vs run
χ^2 / ndf 84.26 / 88
p0 181.9 ± 73.32
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 436.5
Std Dev 0
3
2
1
0
−1
−2
−3

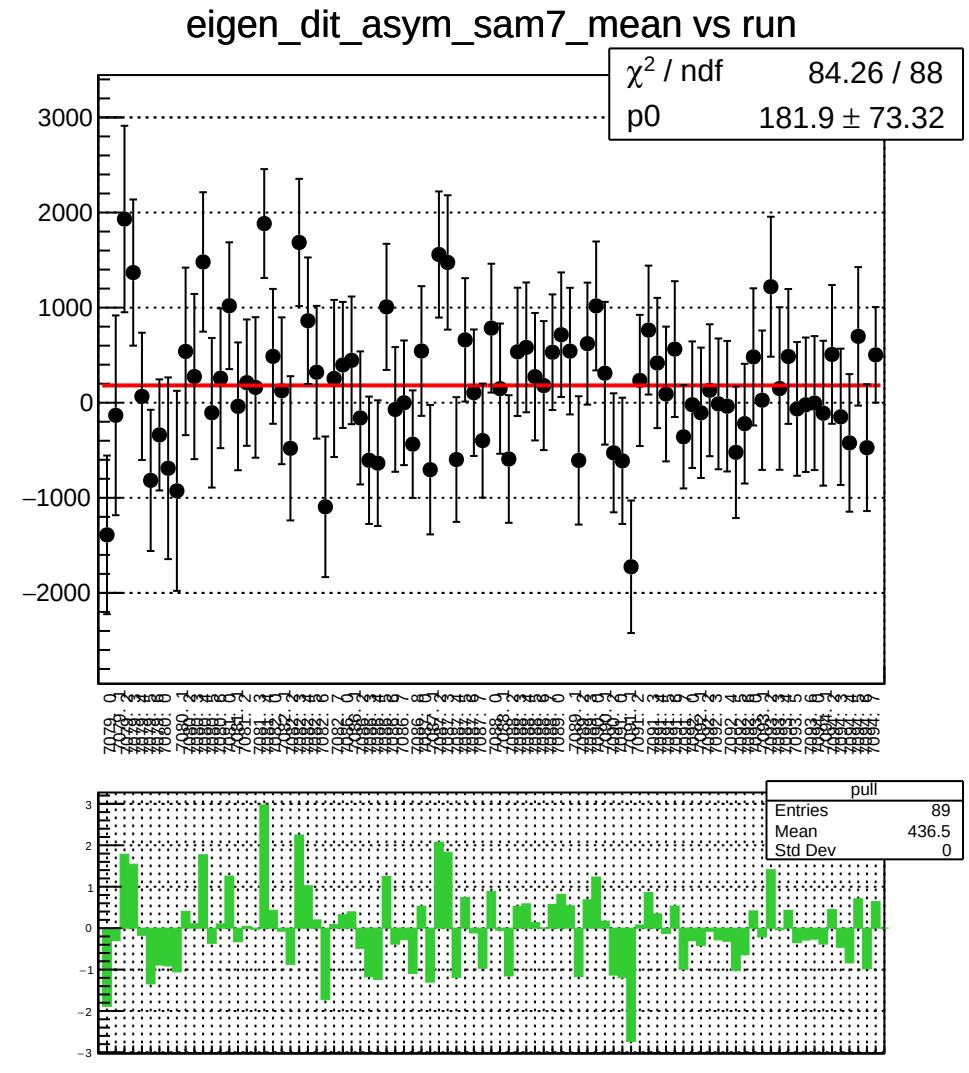

pull1D
Entries 89
Mean −0.00539
Std Dev 0.973
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

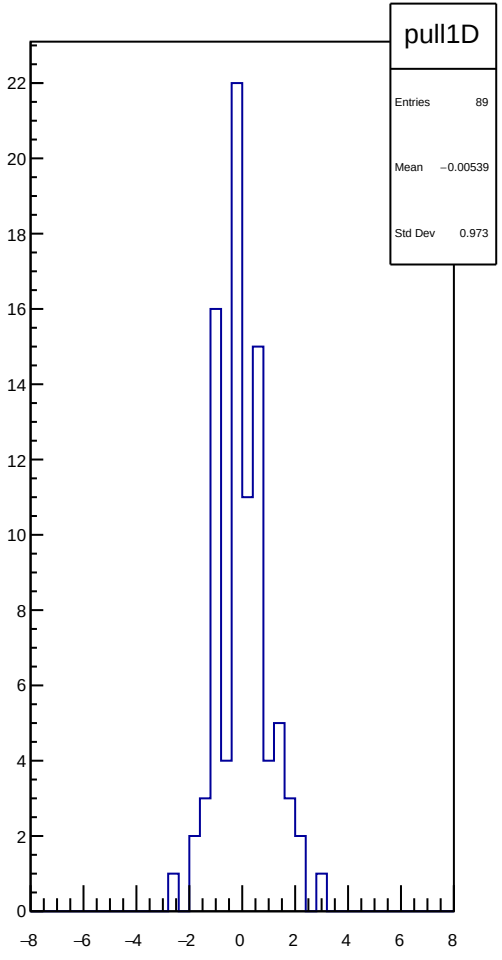

dit_asym_sam7_rms vs run
χ² / ndf 1.378e+04 / 88
p0 67.05 ± 0.05185
100
95
90
85
80
75
70
65
60

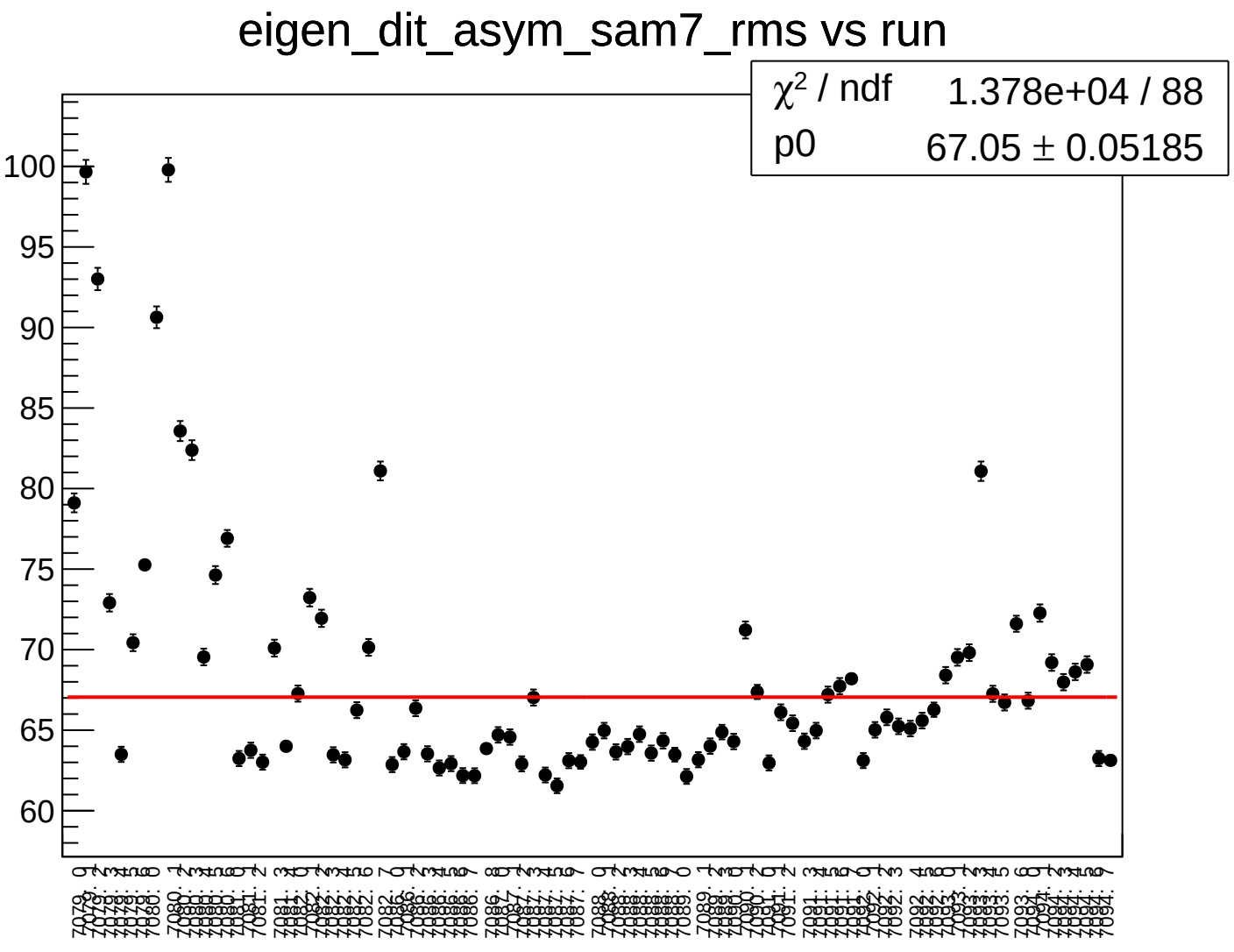

asym_sam7_dit_correction_mean vs run
χ² / ndf 91.45 / 88
p0 −750.4 ± 386.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 2138
Std Dev 0
3
2
1
0
−1
−2

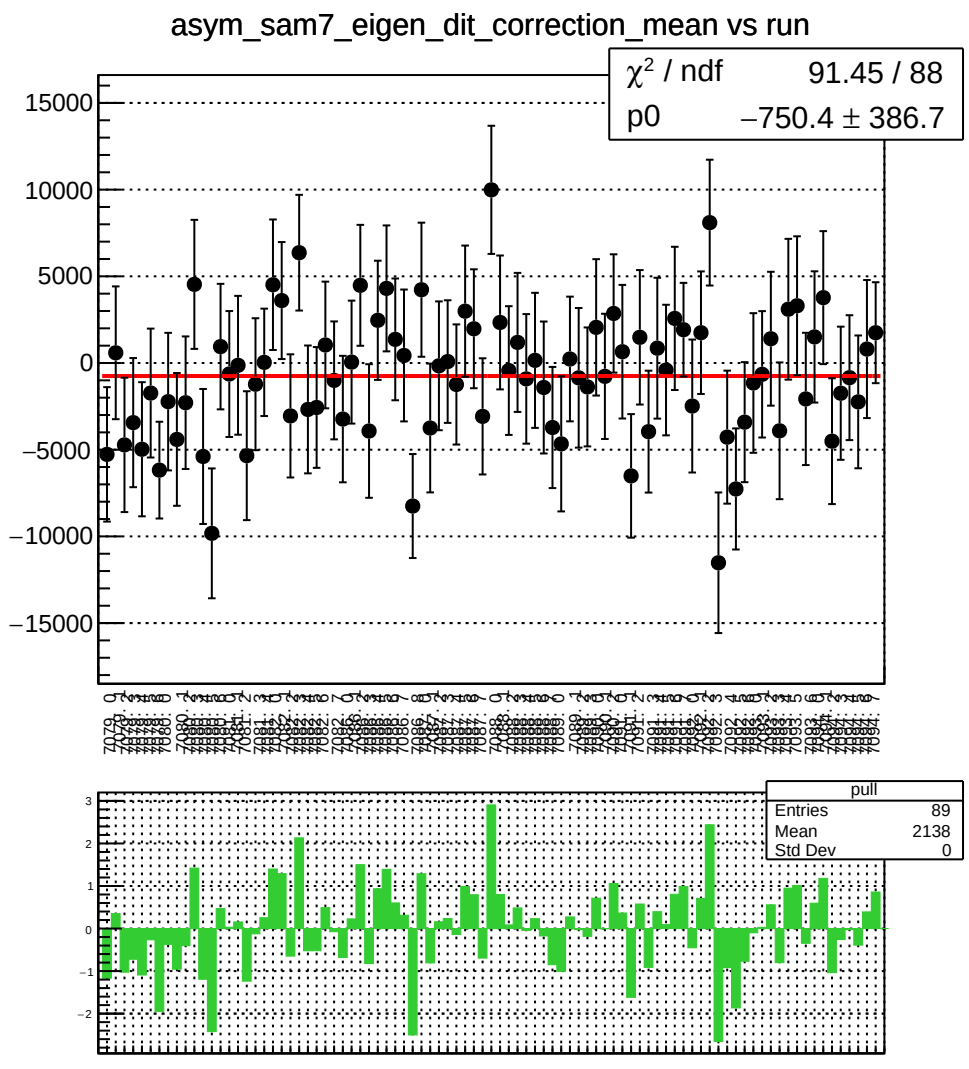

pull1D
Entries 89
Mean 0.001583
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

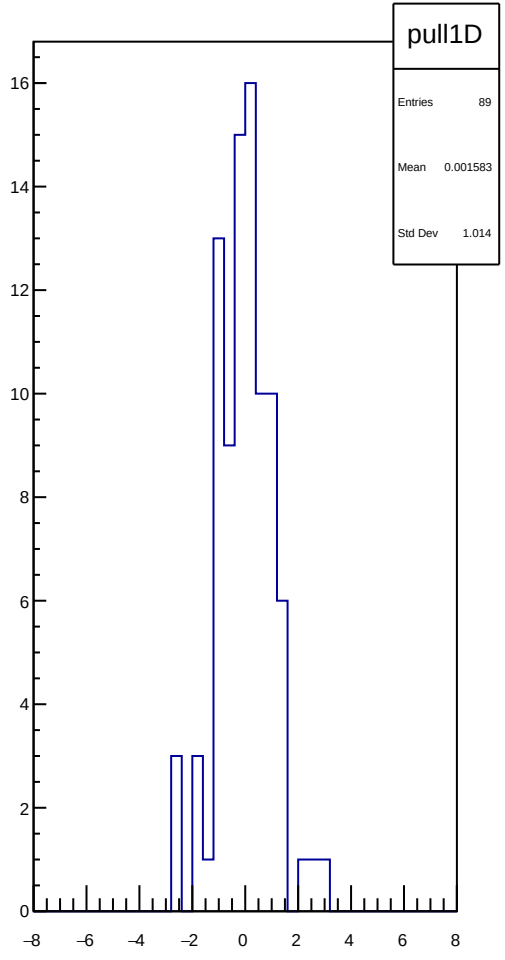

asym_sam7_dit_correction_rms vs run
χ² / ndf 3807 / 88
p0 354.6 ± 0.2734
400
390
380
370
360
350
340
330
320
310

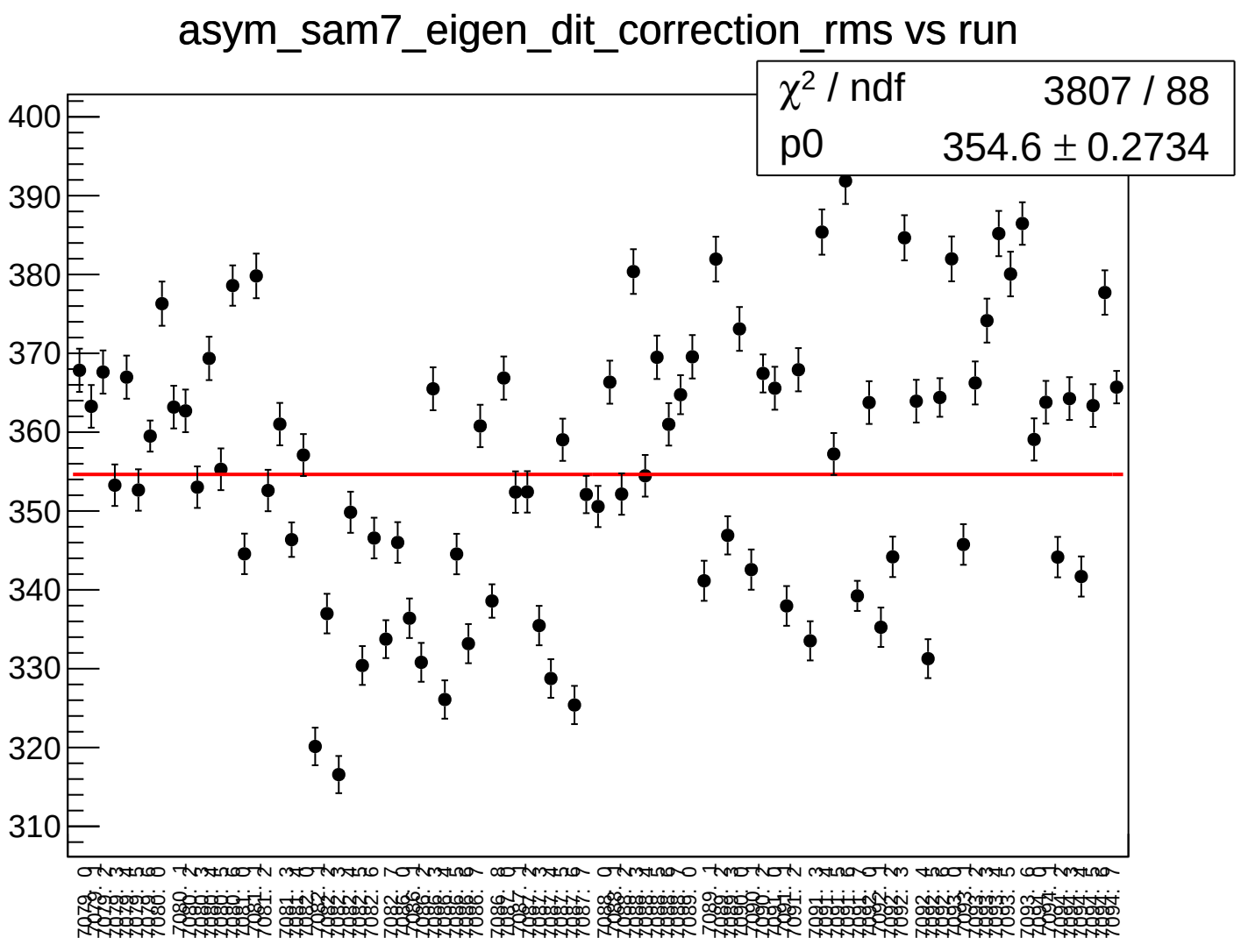

eigen_dit_asym_sam7_mean vs run
χ² / ndf 84.26 / 88
p0 181.9 ± 73.32
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 436.5
Std Dev 0
3
2
1
0
−1
−2
−3

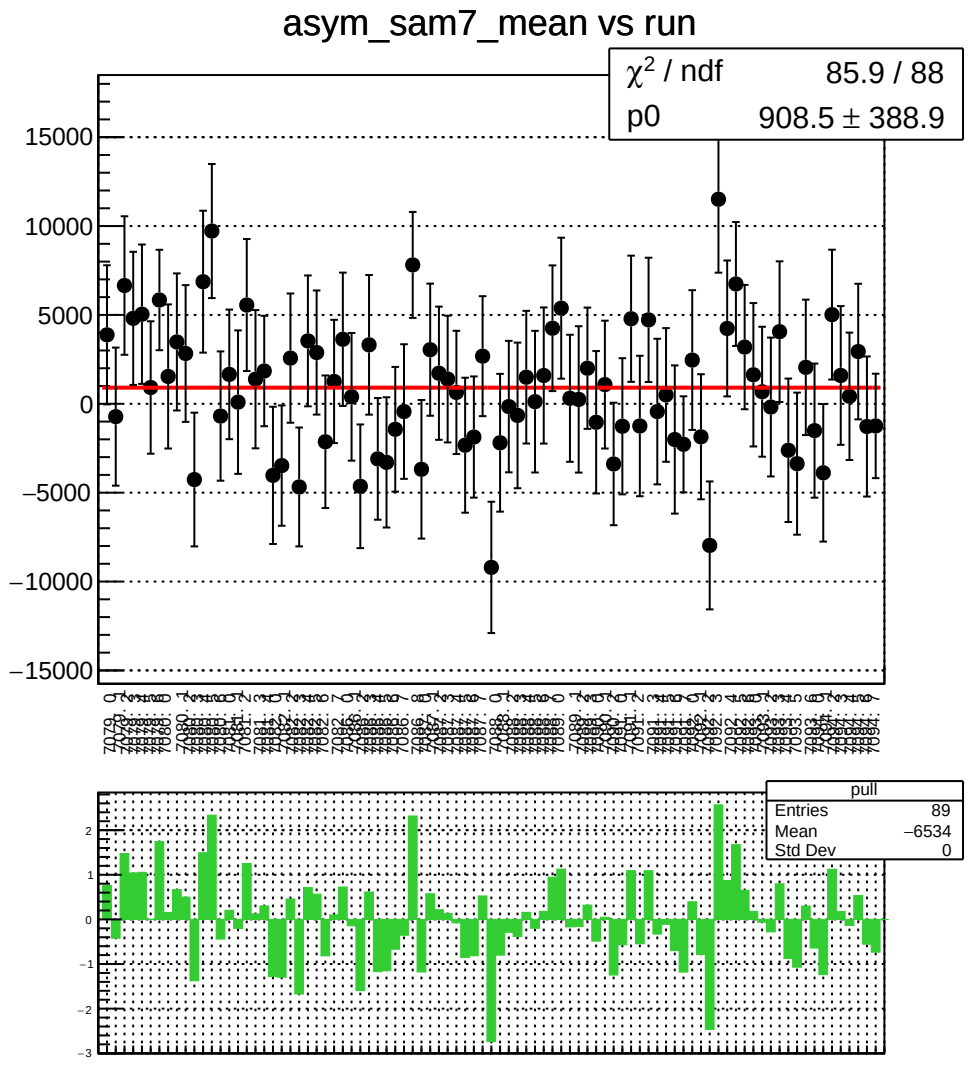

pull1D
Entries 89
Mean −0.00539
Std Dev 0.973
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

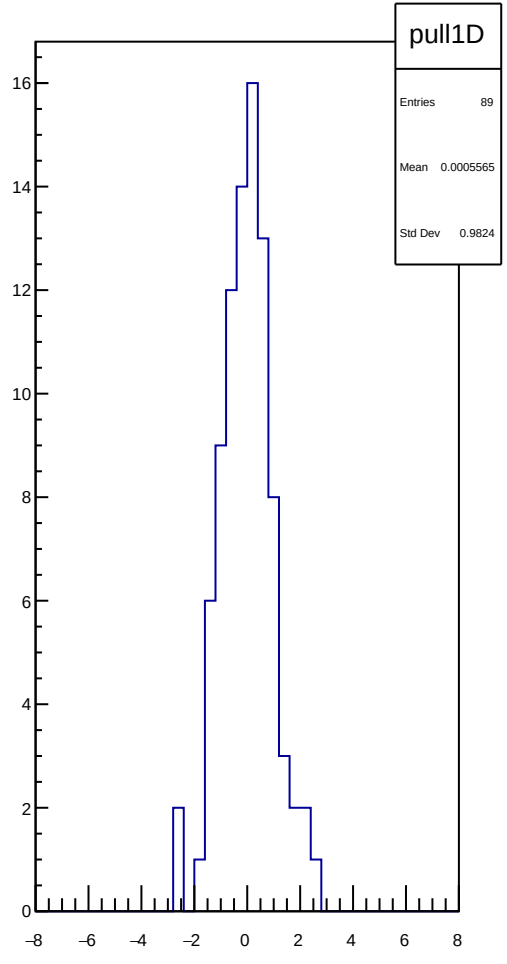

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1.378e+04 / 88
p0 67.05 ± 0.05185
100
95
90
85
80
75
70
65
60

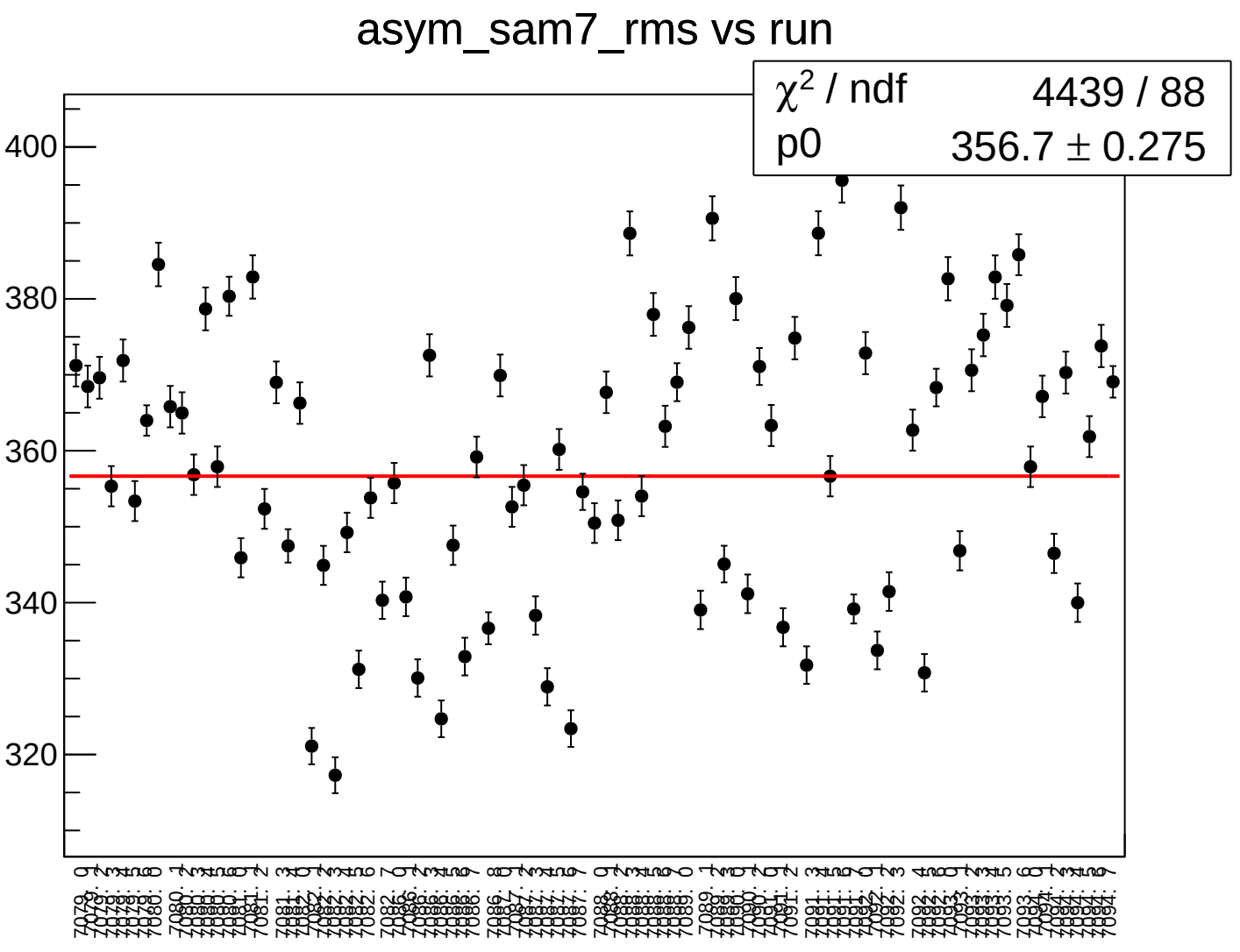

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 91.45 / 88
p0 −750.4 ± 386.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 2138
Std Dev 0
3
2
1
0
−1
−2

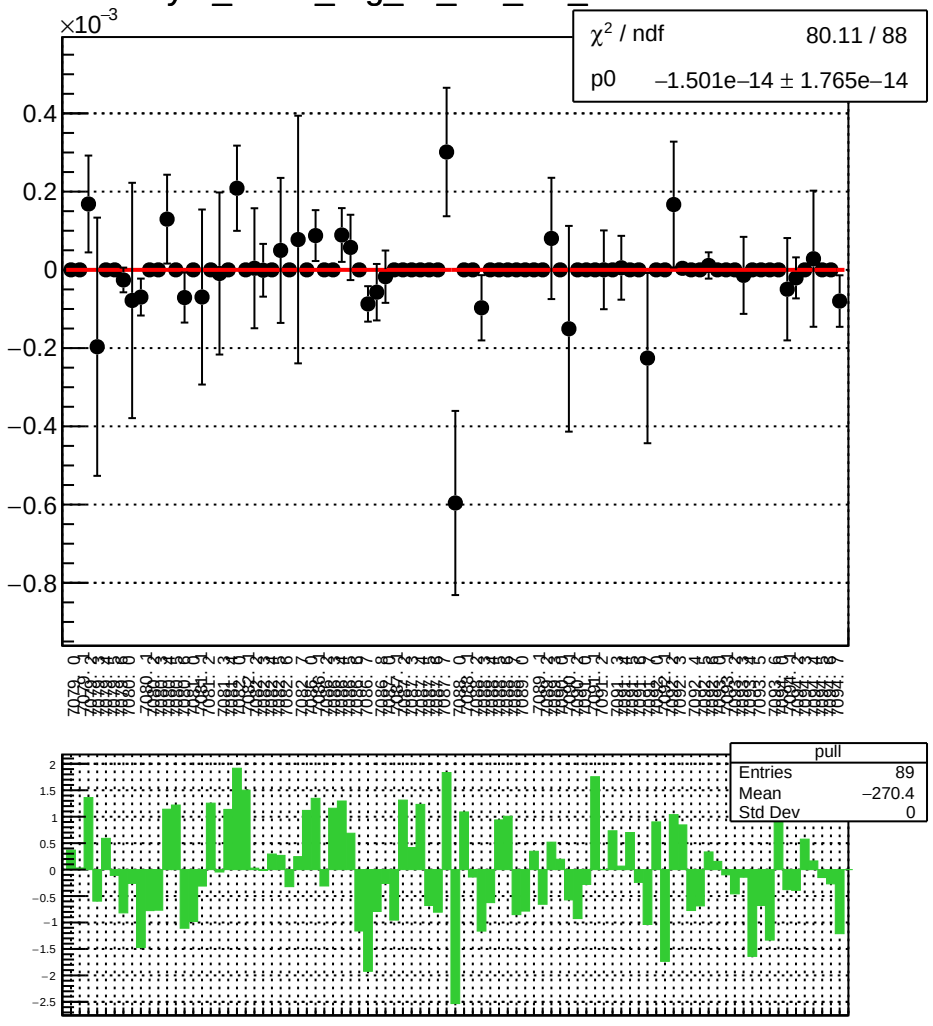

pull1D
Entries 89
Mean 0.001583
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

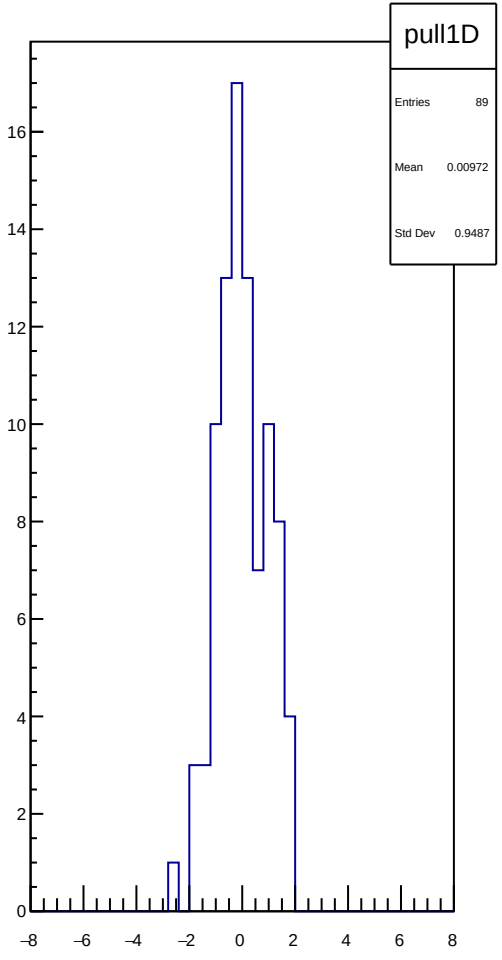

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3807 / 88
p0 354.6 ± 0.2734
400
390
380
370
360
350
340
330
320
310

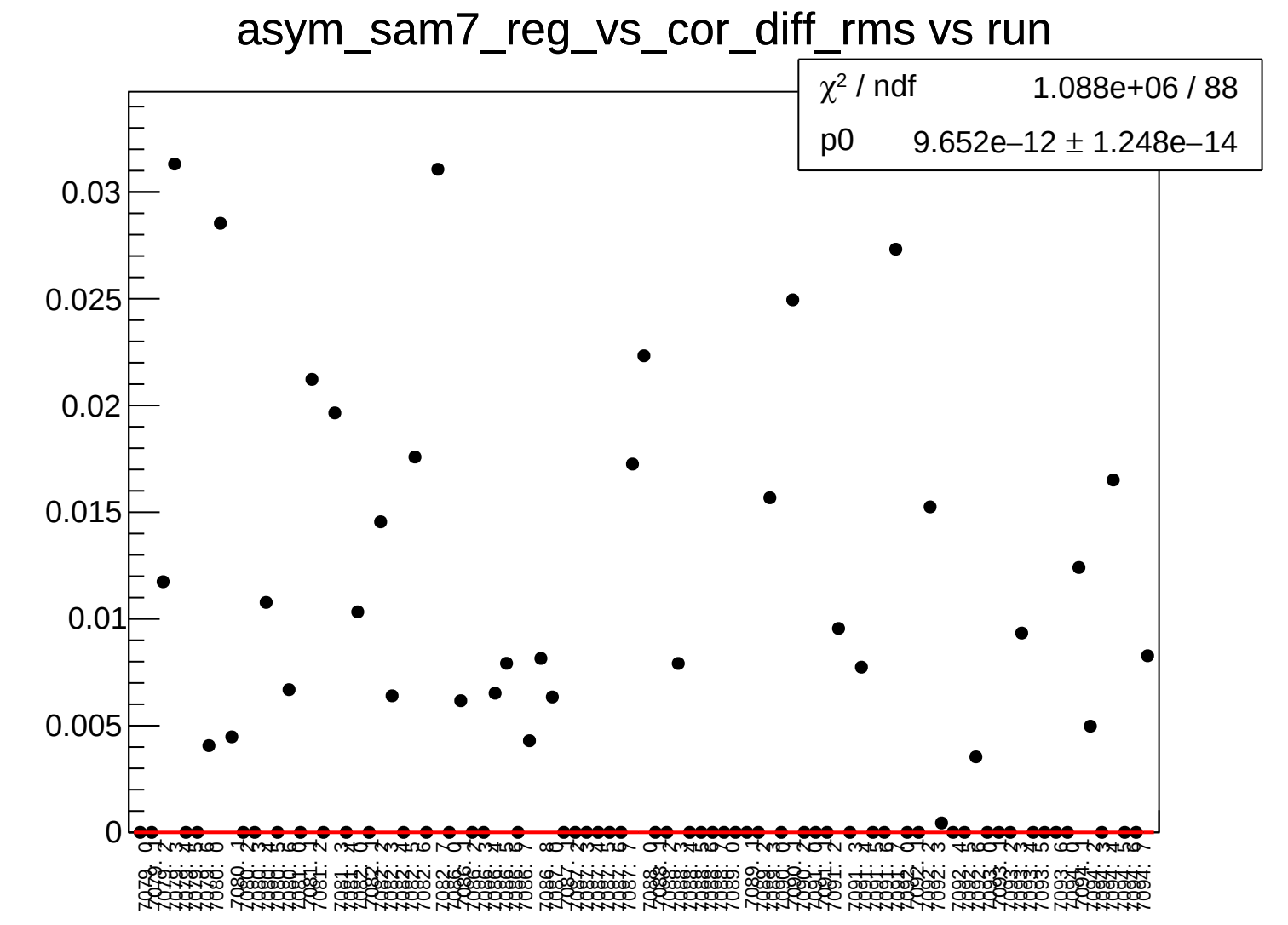

asym_sam7_mean vs run
χ² / ndf 85.9 / 88
p0 908.5 ± 388.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −6534
Std Dev 0
2
1
0
−1
−2
−3

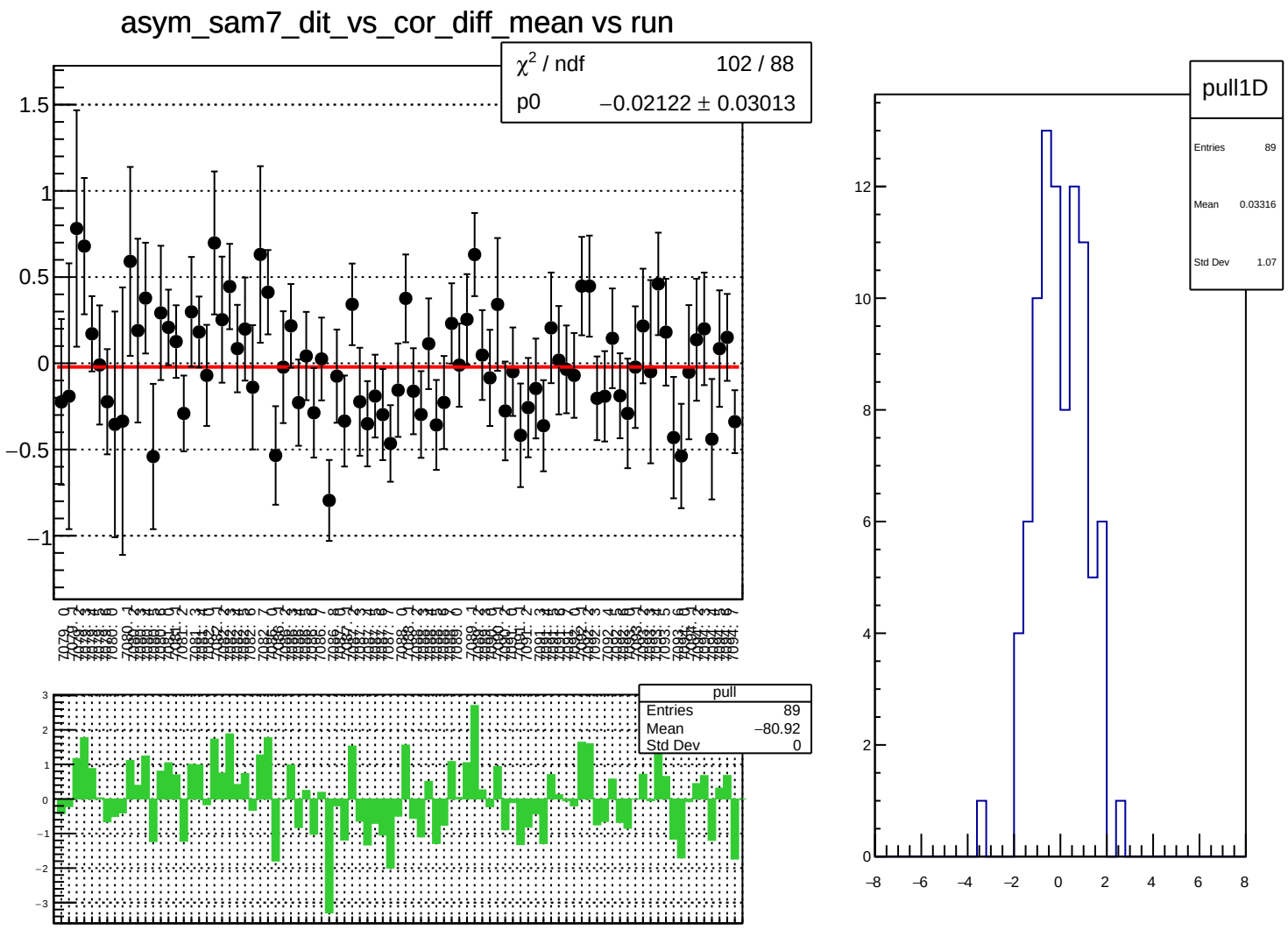

pull1D
Entries 89
Mean 0.0005565
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

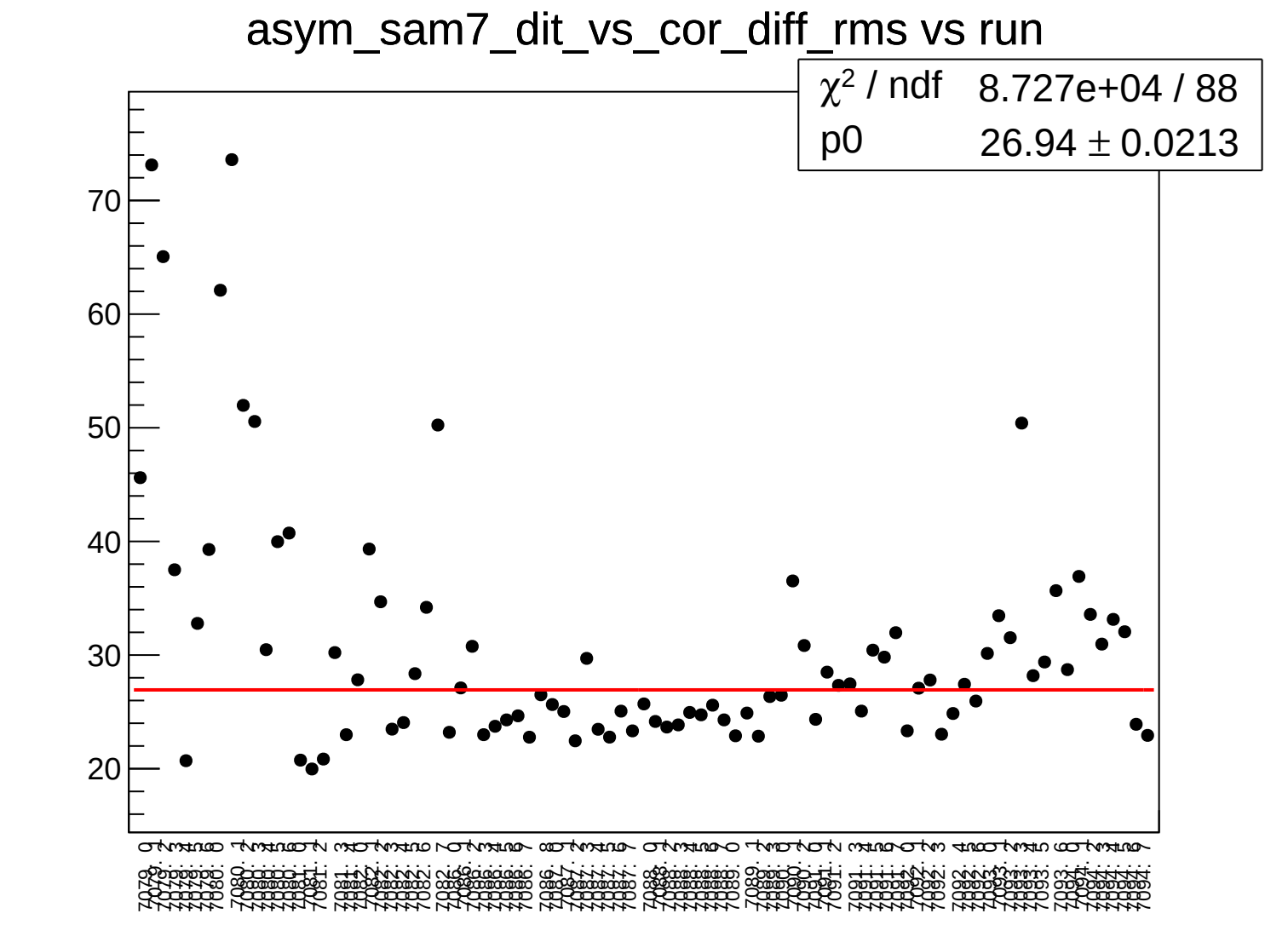

asym_sam7_rms vs run
χ² / ndf 4439 / 88
p0 356.7 ± 0.275
400
380
360
340
320

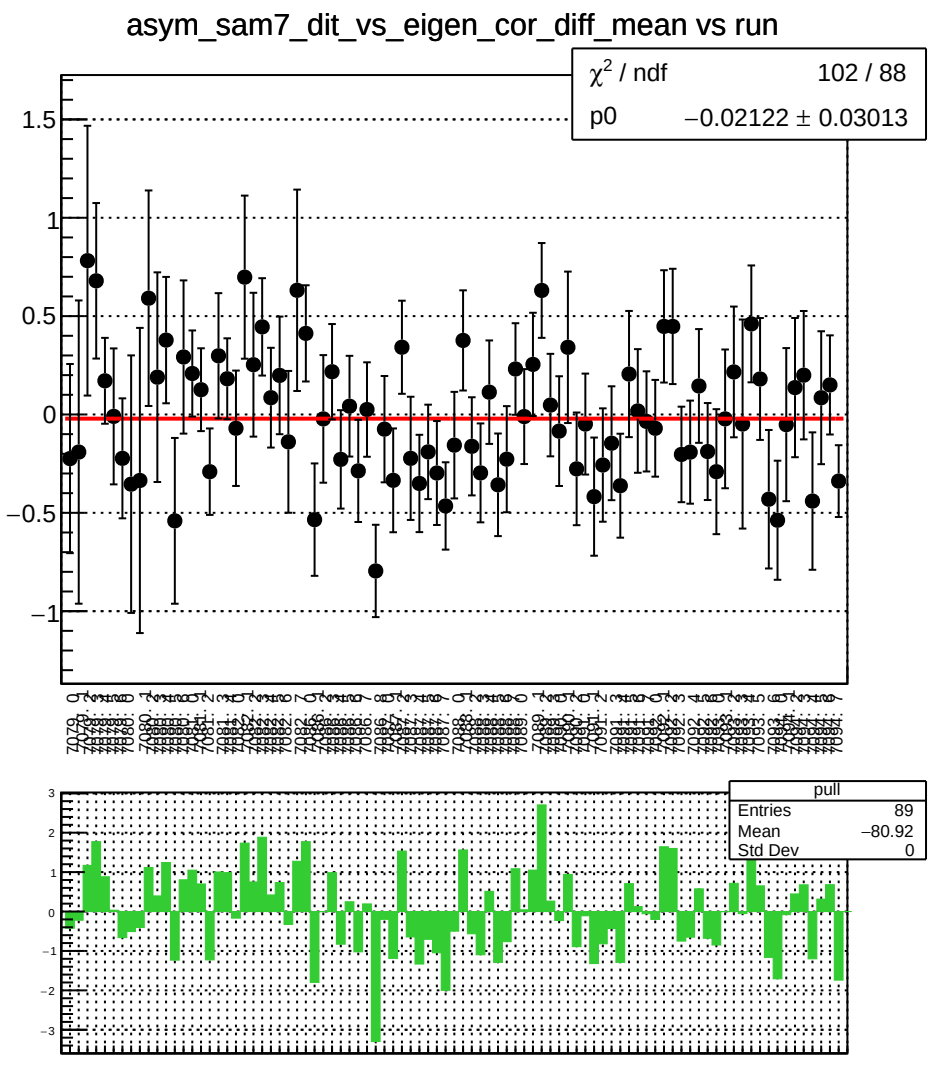

asym_sam7_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 80.11 / 88
p0 −1.501e−14 ± 1.765e−14
pull
Entries 89
Mean −270.4
Std Dev 0

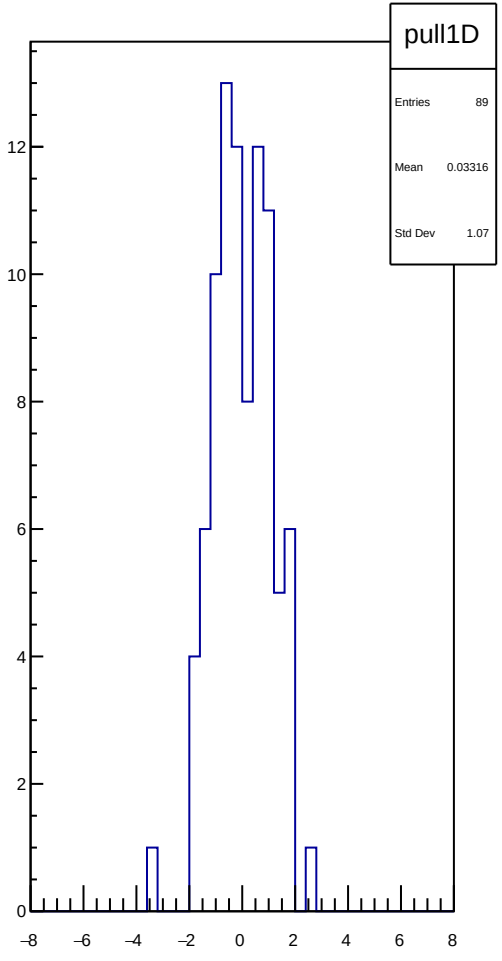

pull1D
Entries 89
Mean 0.00972
Std Dev 0.9487

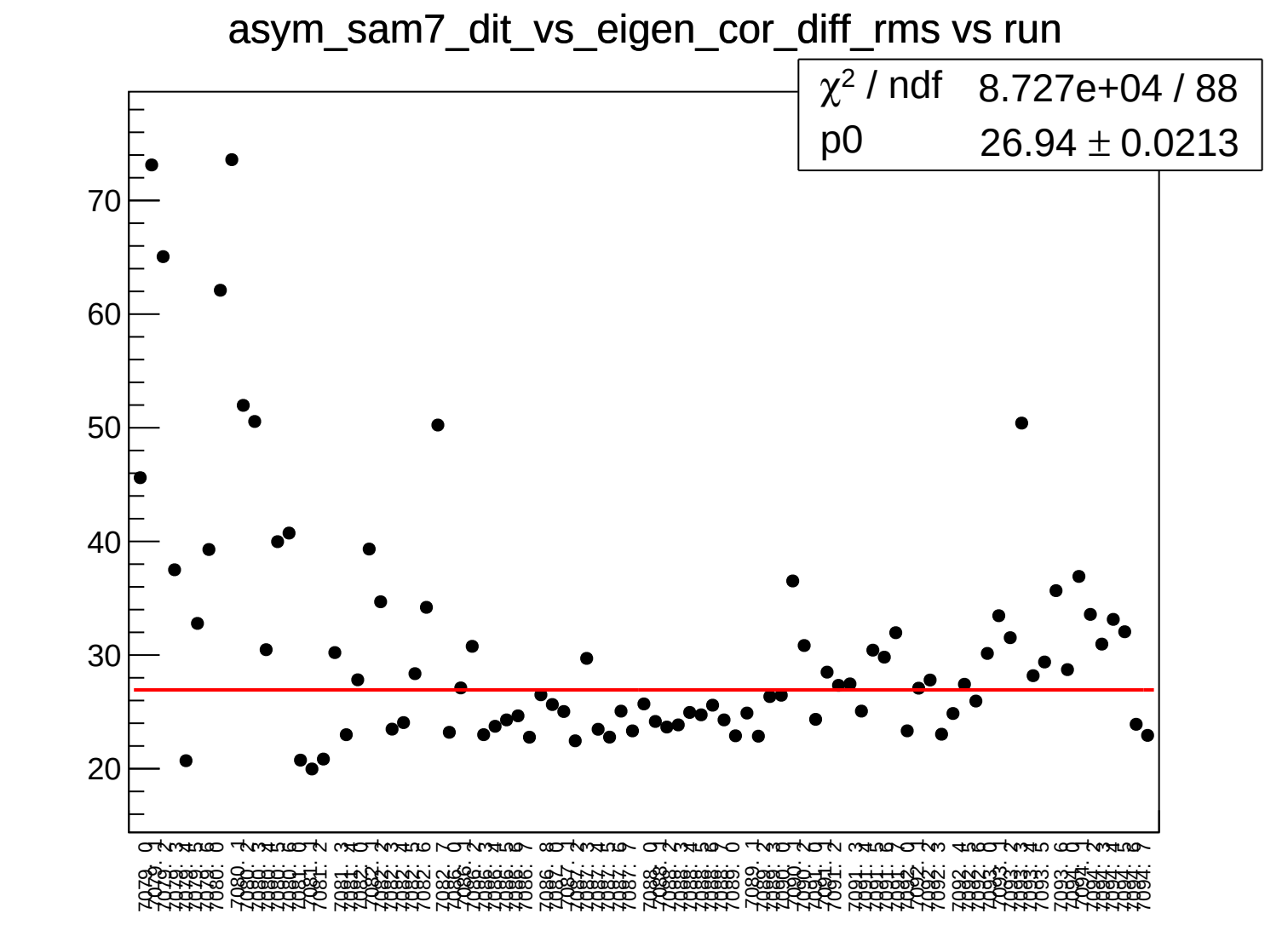

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.088e+06 / 88
p0 9.652e−12 ± 1.248e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

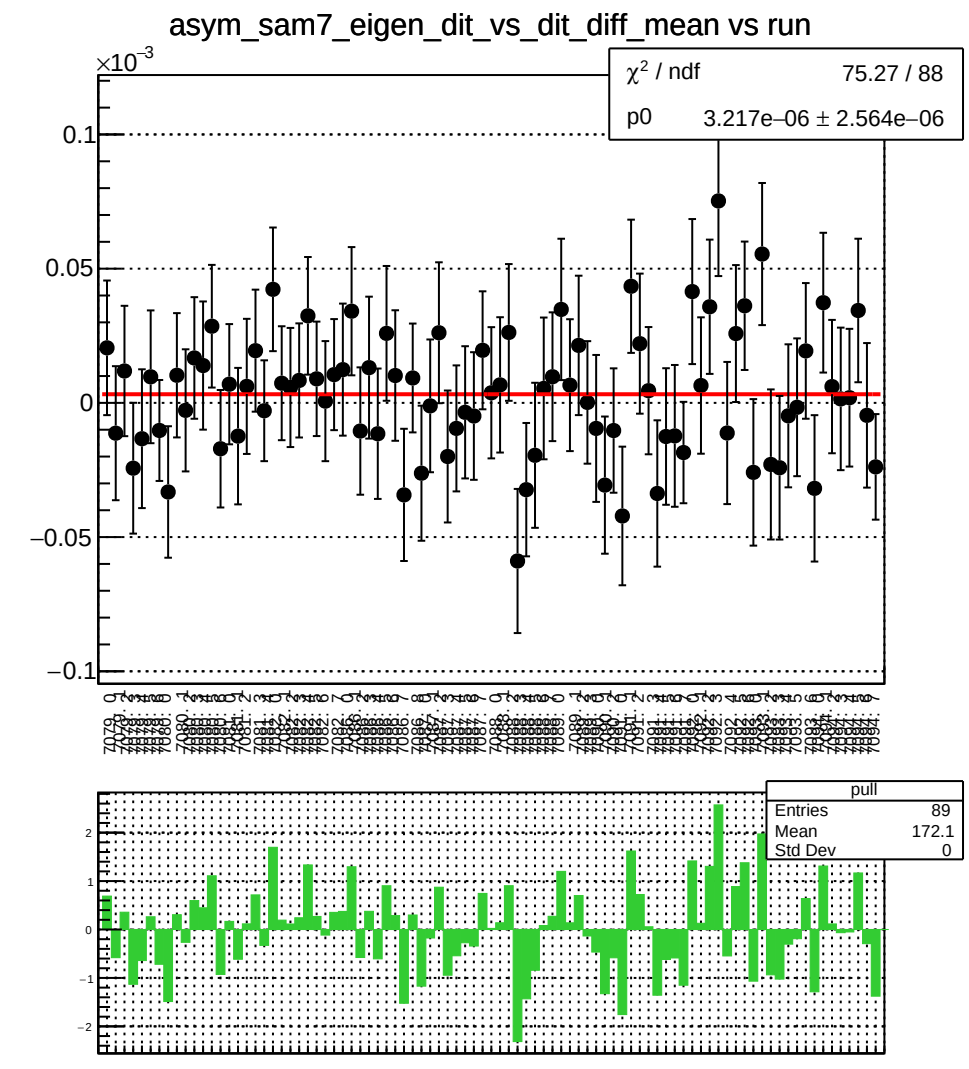

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 88
p0 −0.02122 ± 0.03013
pull
Entries 89
Mean −80.92
Std Dev 0
pull1D
Entries 89
Mean 0.03316
Std Dev 1.07

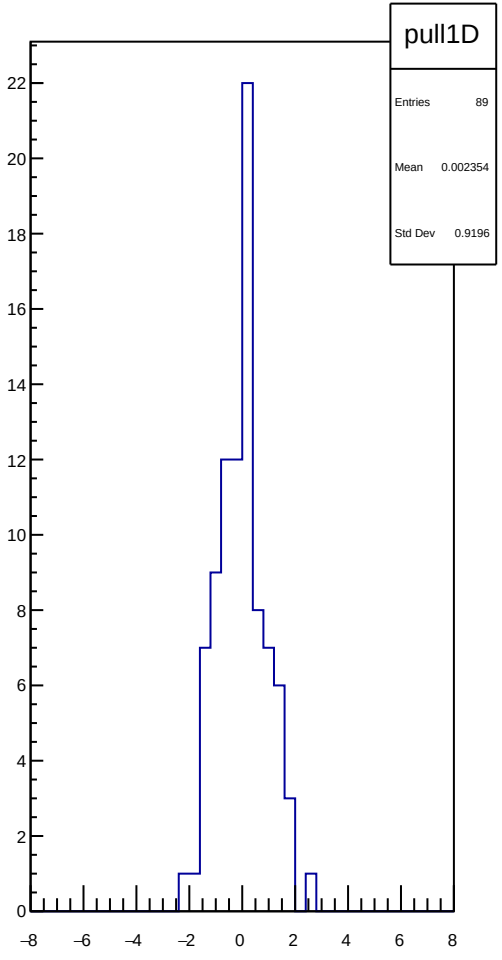

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 8.727e+04 / 88
p0 26.94 ± 0.0213
70
60
50
40
30
20

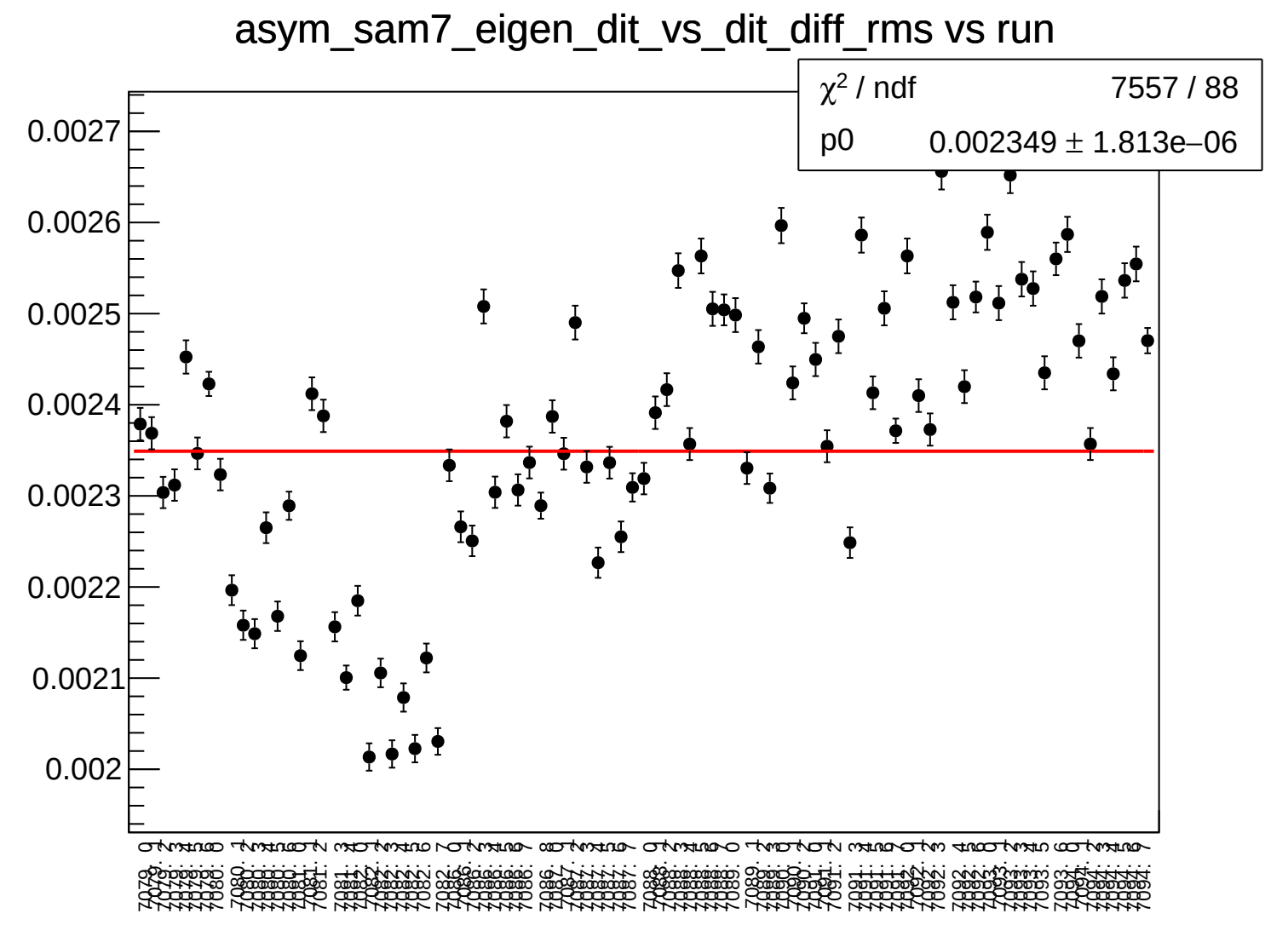

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 88
p0 −0.02122 ± 0.03013
pull
Entries 89
Mean −80.92
Std Dev 0

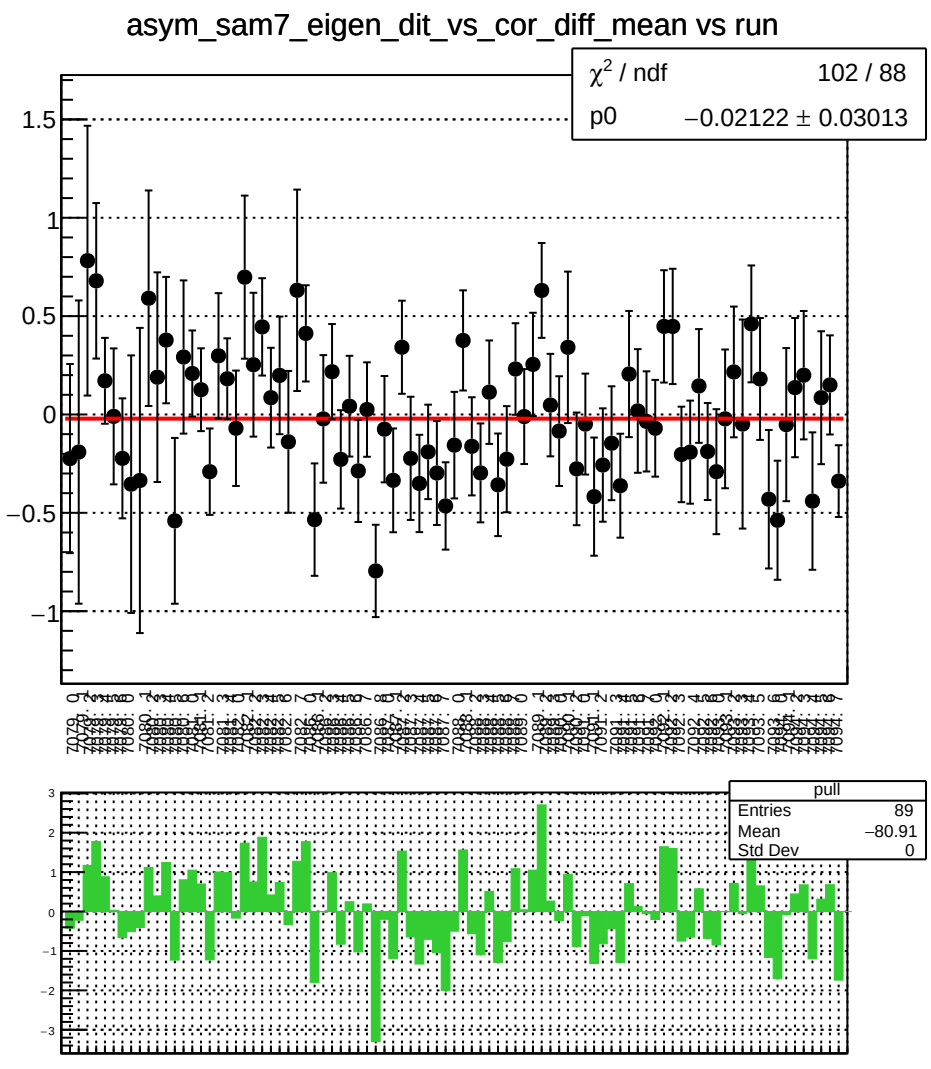

pull1D
Entries 89
Mean 0.03316
Std Dev 1.07

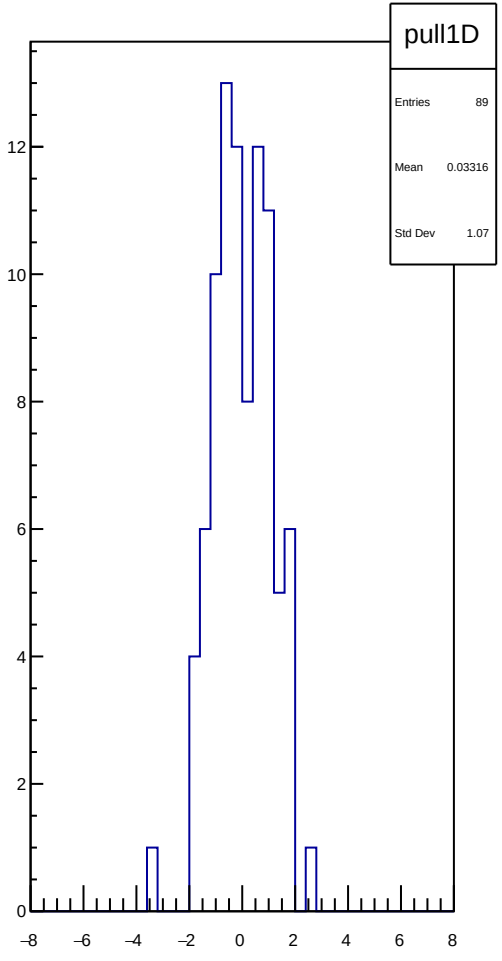

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.727e+04 / 88
p0 26.94 ± 0.0213
70
60
50
40
30
20

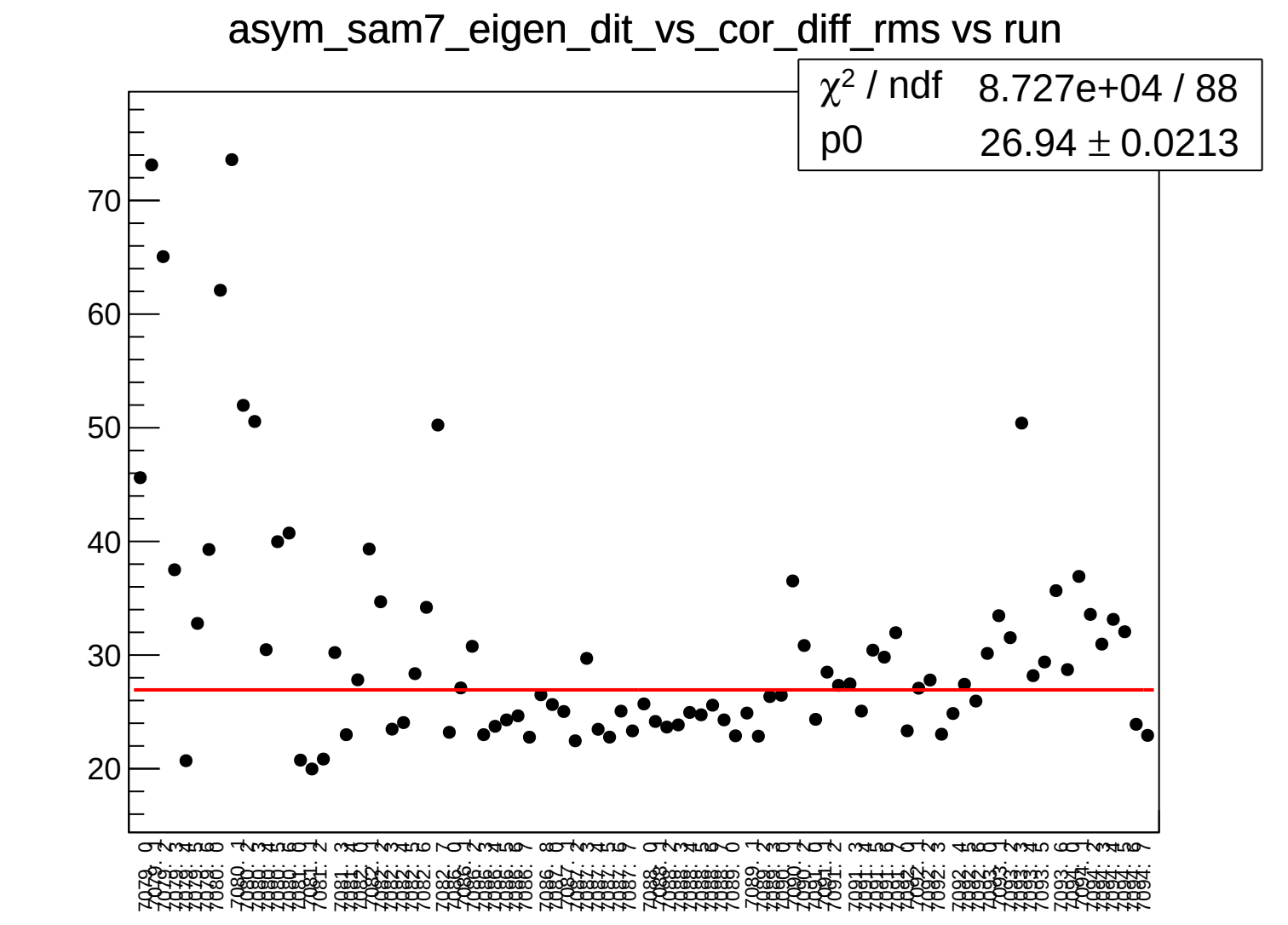

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.27 / 88
p0 3.217e−06 ± 2.564e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 172.1
Std Dev 0
2
1
0
−1
−2

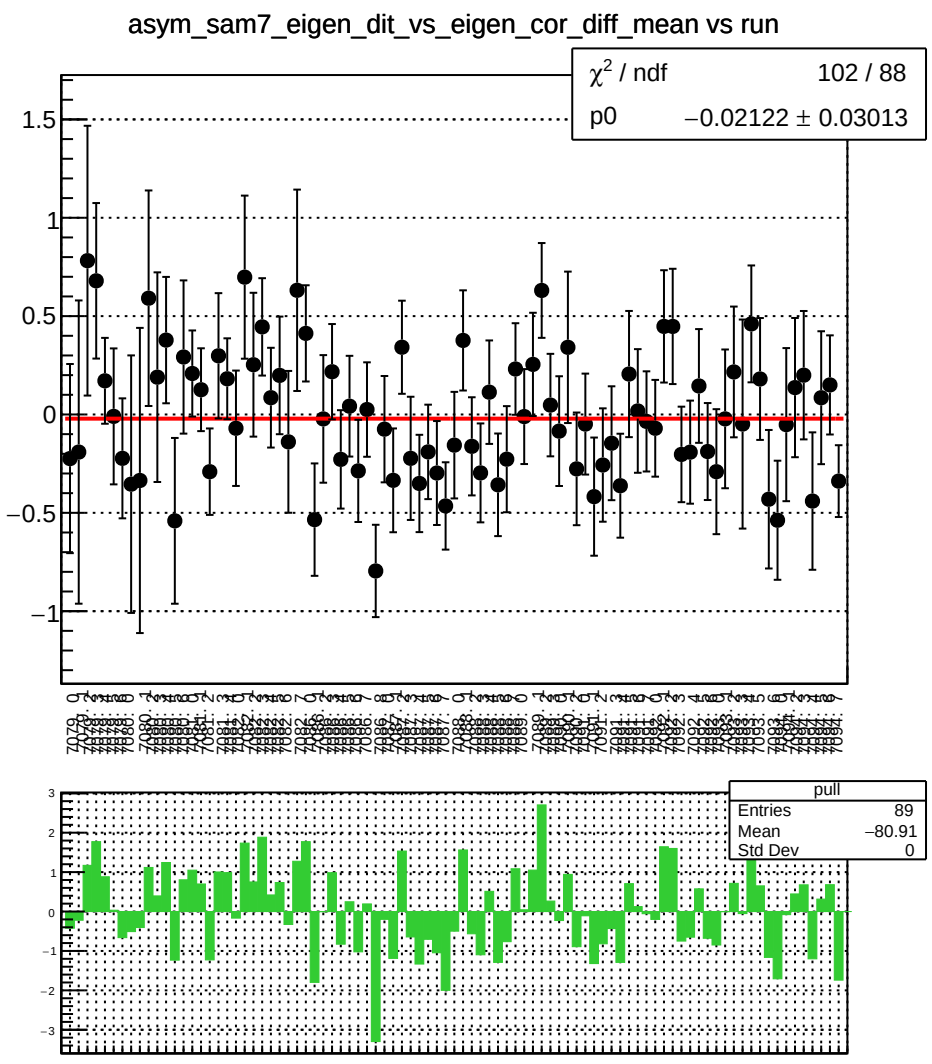

pull1D
Entries 89
Mean 0.002354
Std Dev 0.9196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

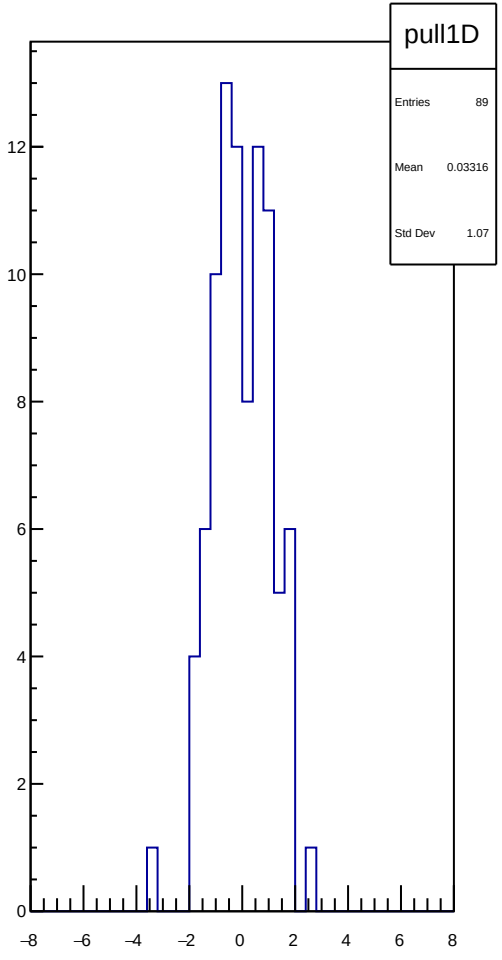

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7557 / 88
p0 0.002349 ± 1.813e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

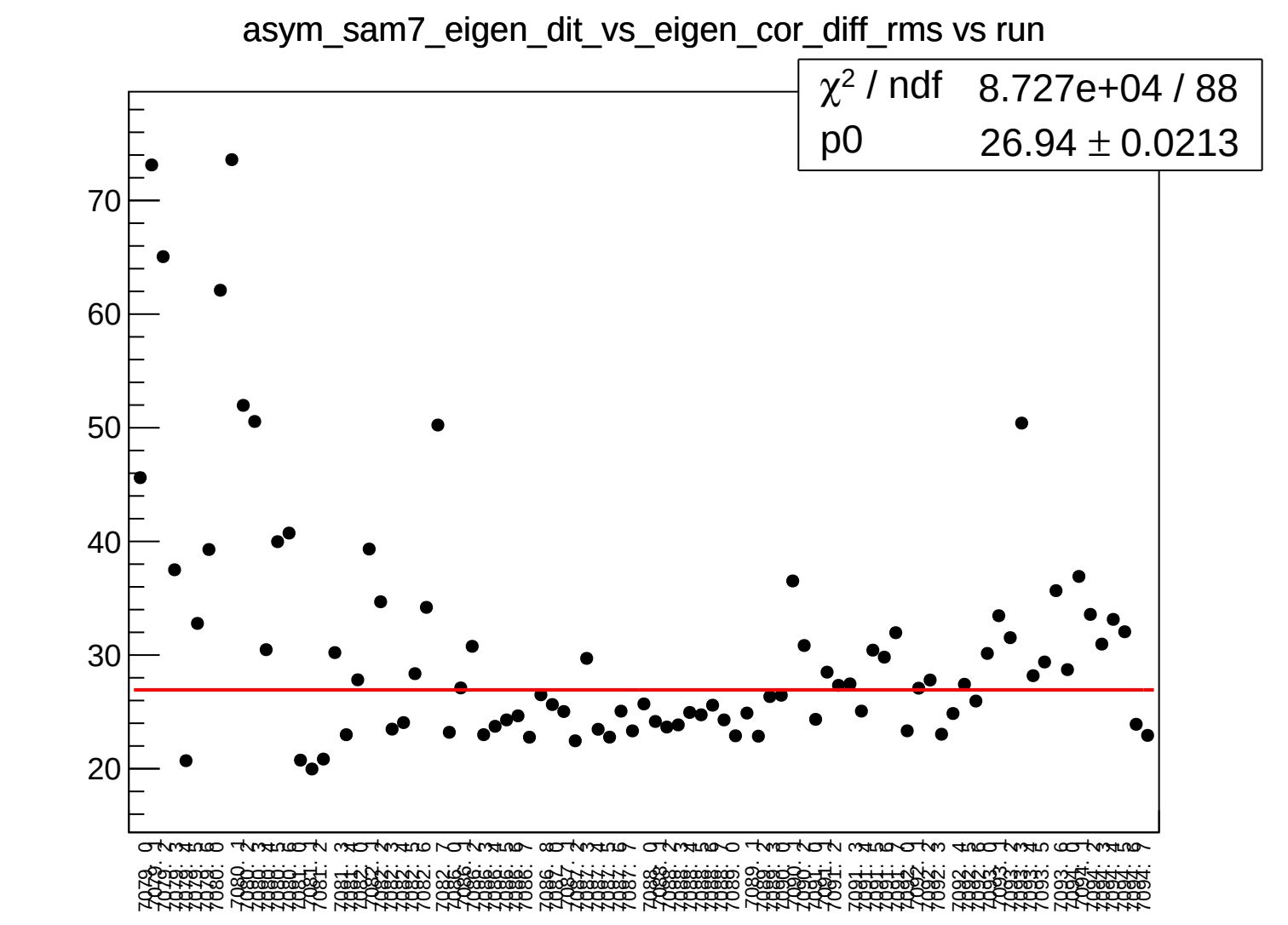

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 88
p0 −0.02122 ± 0.03013
pull
Entries 89
Mean −80.91
Std Dev 0

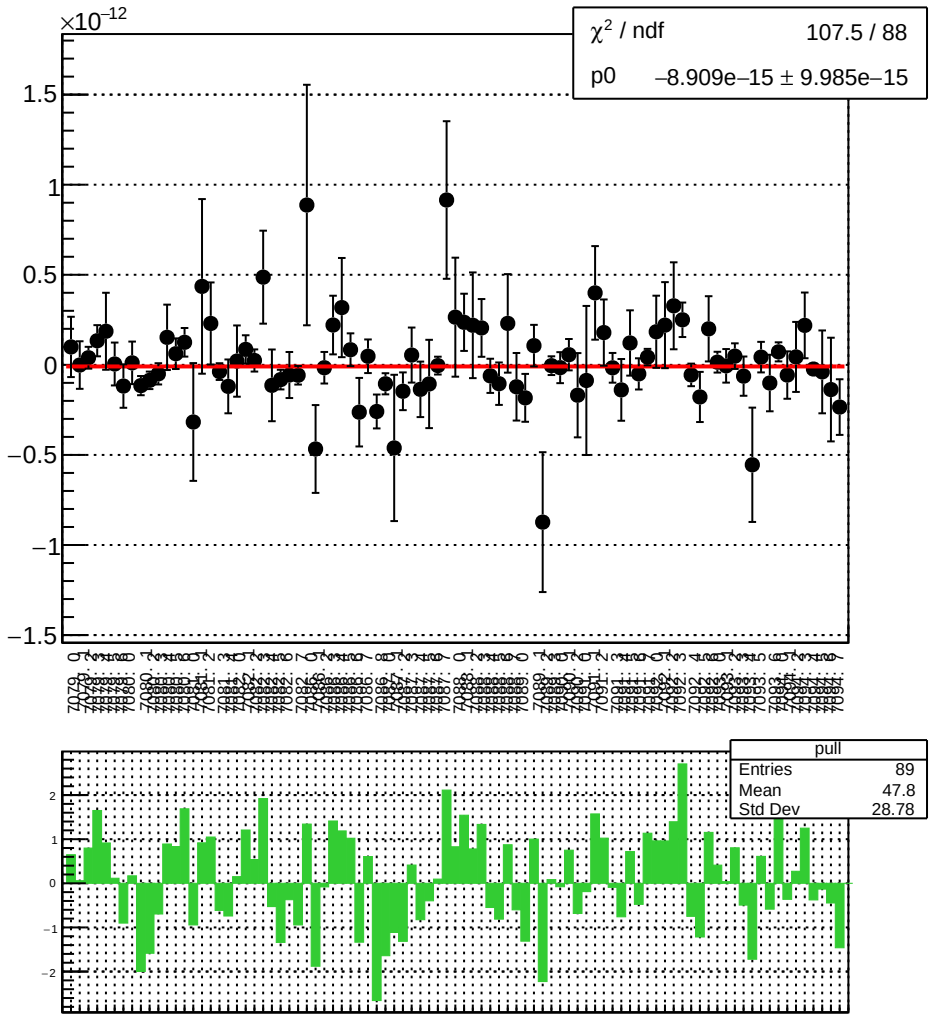

pull1D
Entries 89
Mean 0.03316
Std Dev 1.07

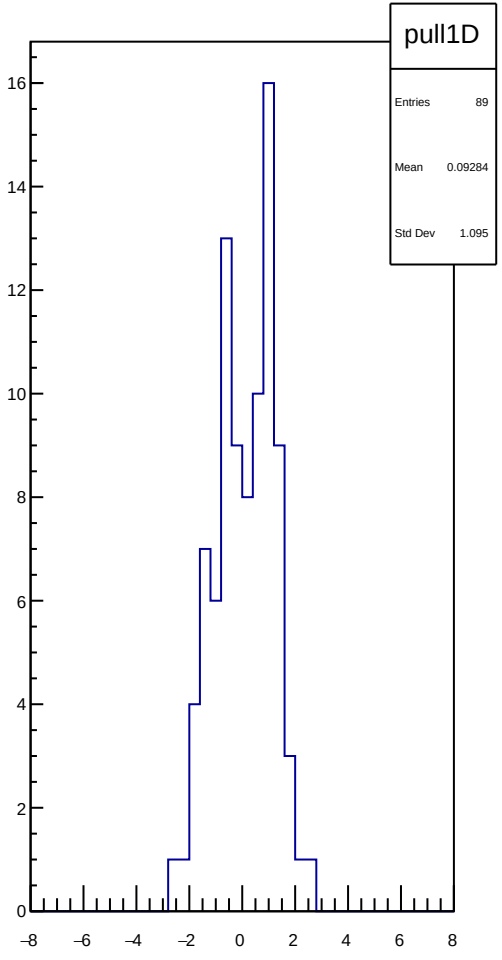

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.727e+04 / 88
p0 26.94 ± 0.0213
70
60
50
40
30
20

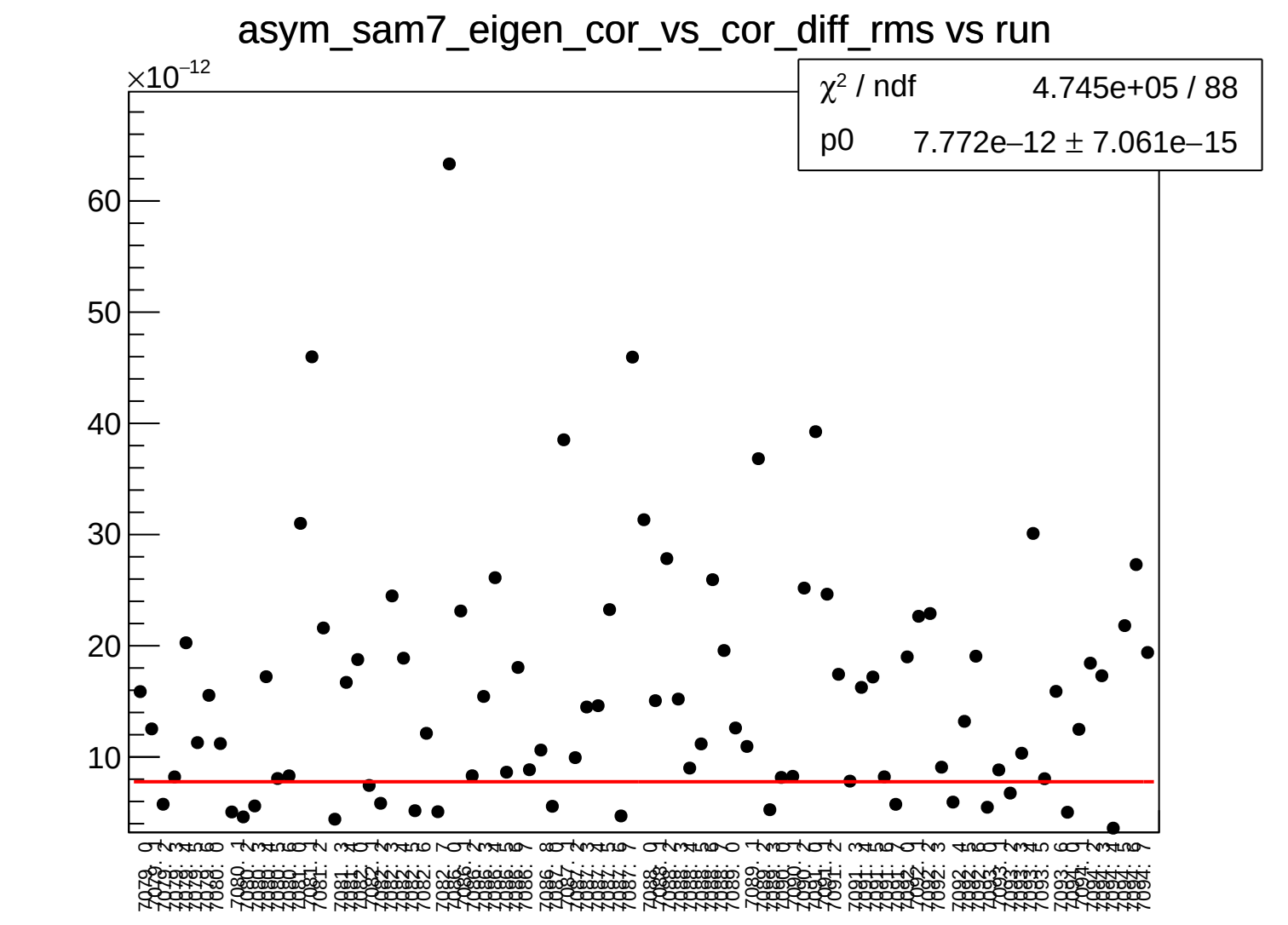

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 88
p0 −0.02122 ± 0.03013
pull
Entries 89
Mean −80.91
Std Dev 0

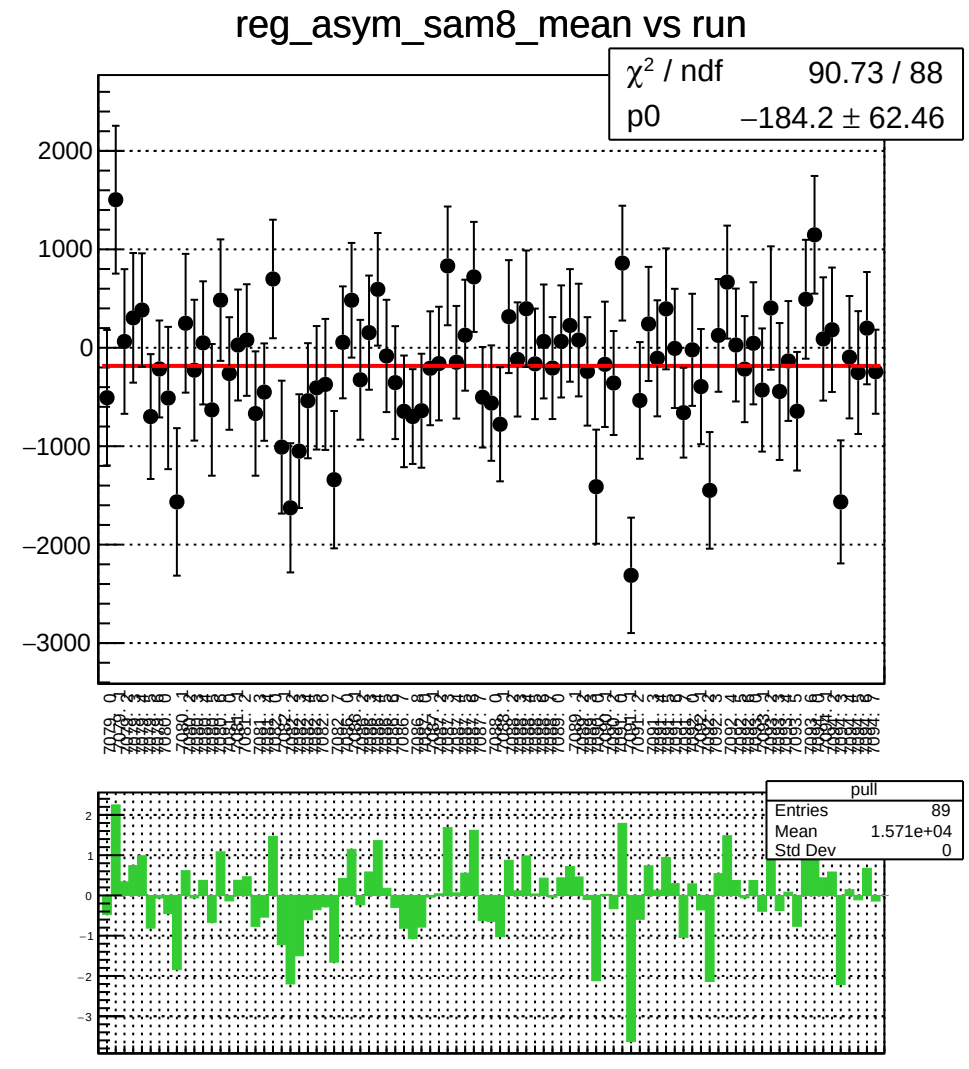

pull1D
Entries 89
Mean 0.03316
Std Dev 1.07

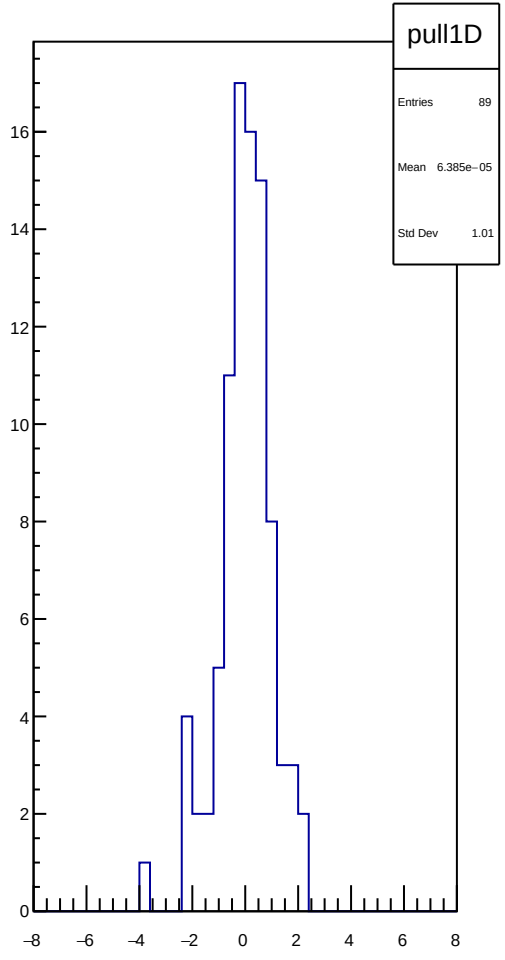

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.727e+04 / 88
p0 26.94 ± 0.0213
70
60
50
40
30
20

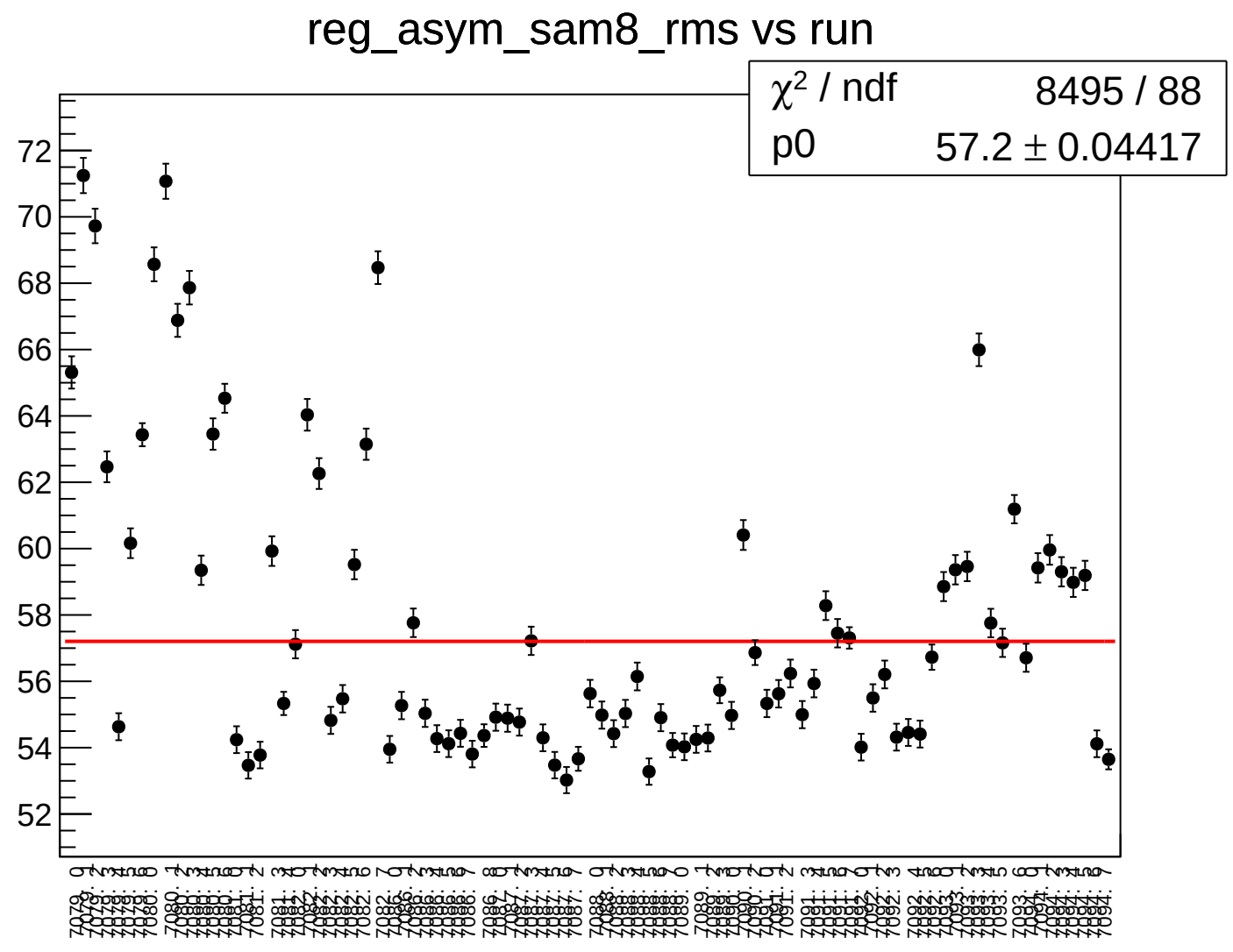

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.5 / 88
p0 −8.909e−15 ± 9.985e−15
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 89
Mean 47.8
Std Dev 28.78
2
1
0
−1
−2

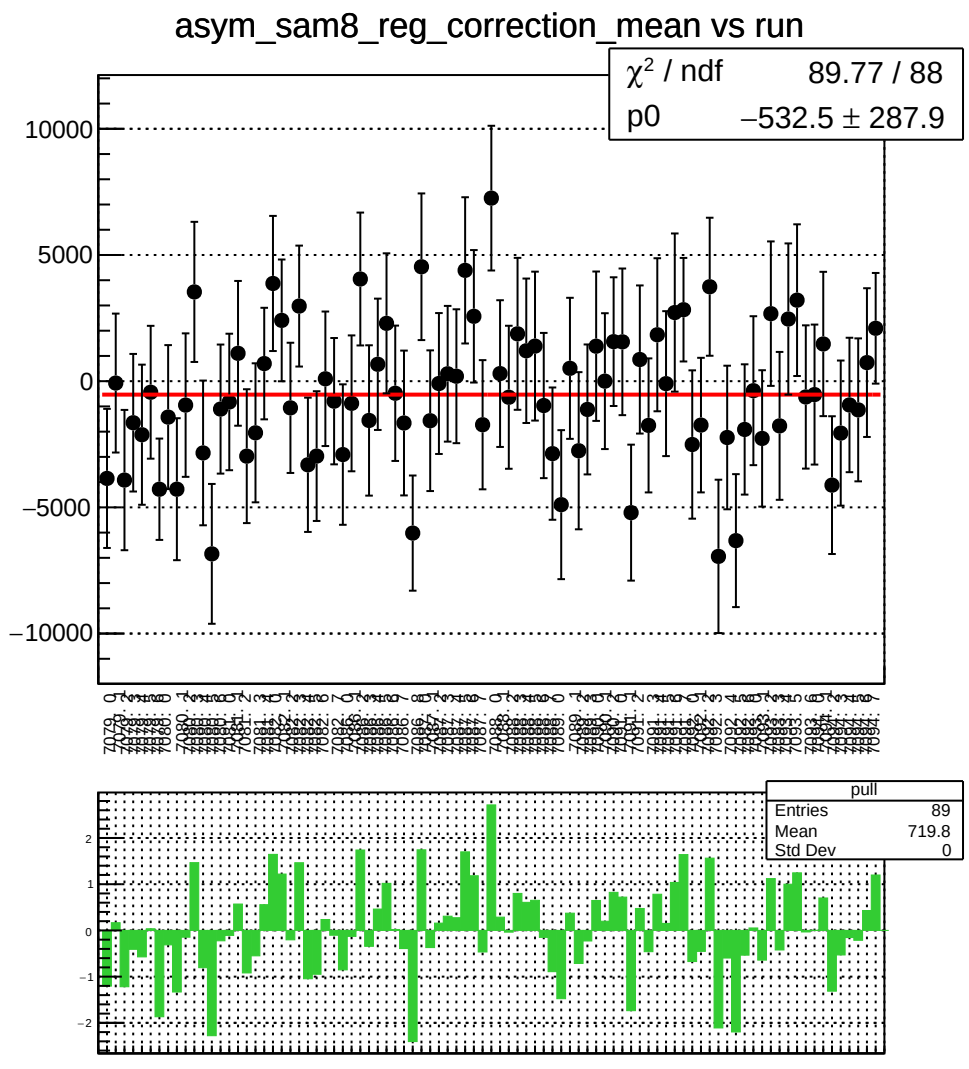

pull1D
Entries 89
Mean 0.09284
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

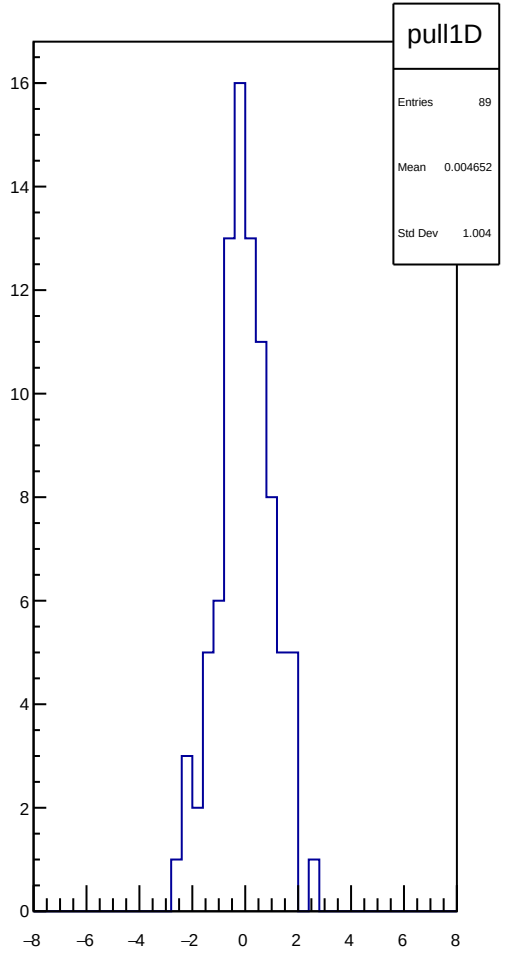

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.745e+05 / 88
p0 7.772e−12 ± 7.061e−15
60
50
40
30
20
10

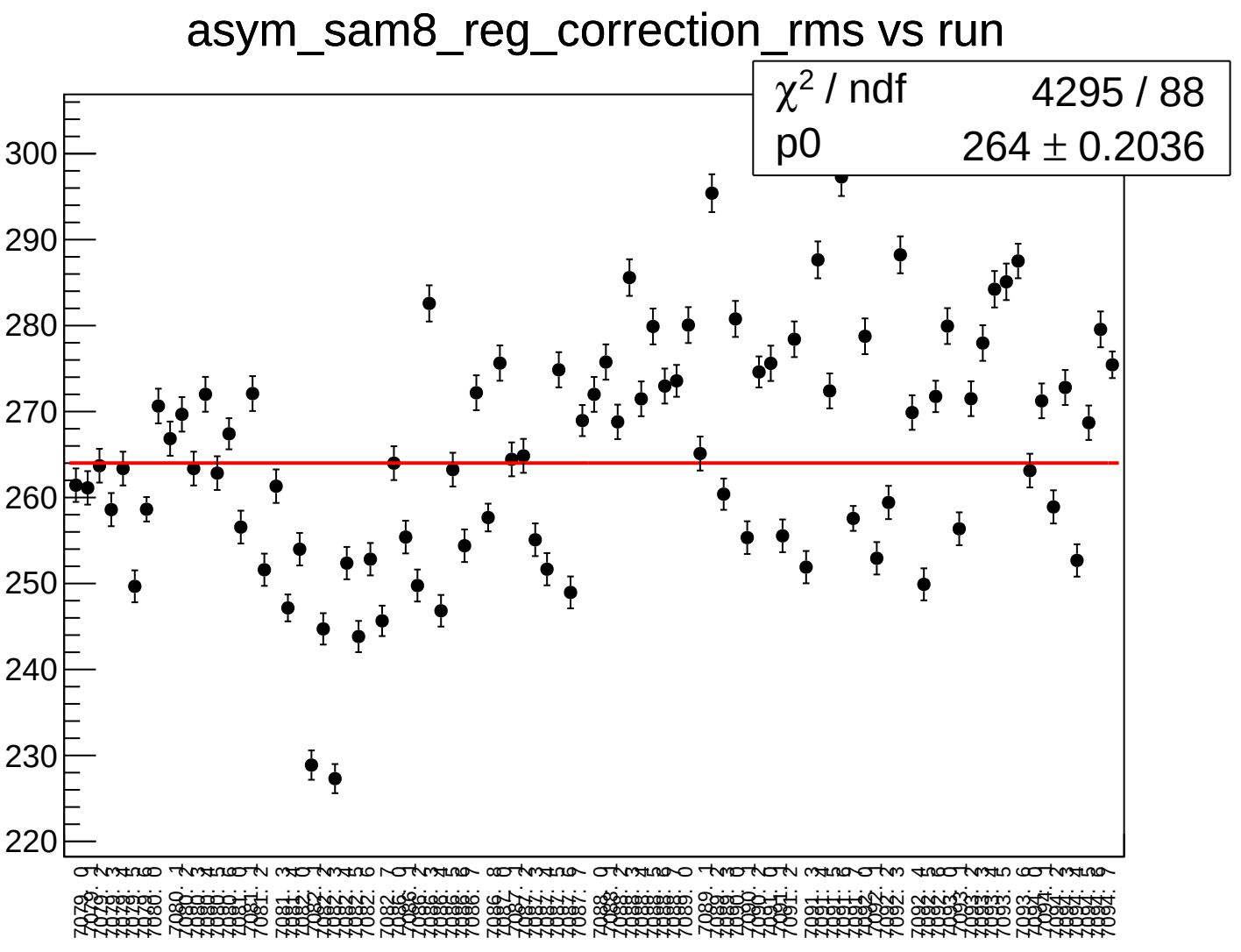

reg_asym_sam8_mean vs run
χ² / ndf 90.73 / 88
p0 −184.2 ± 62.46
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 1.571e+04
Std Dev 0
2
1
0
−1
−2
−3

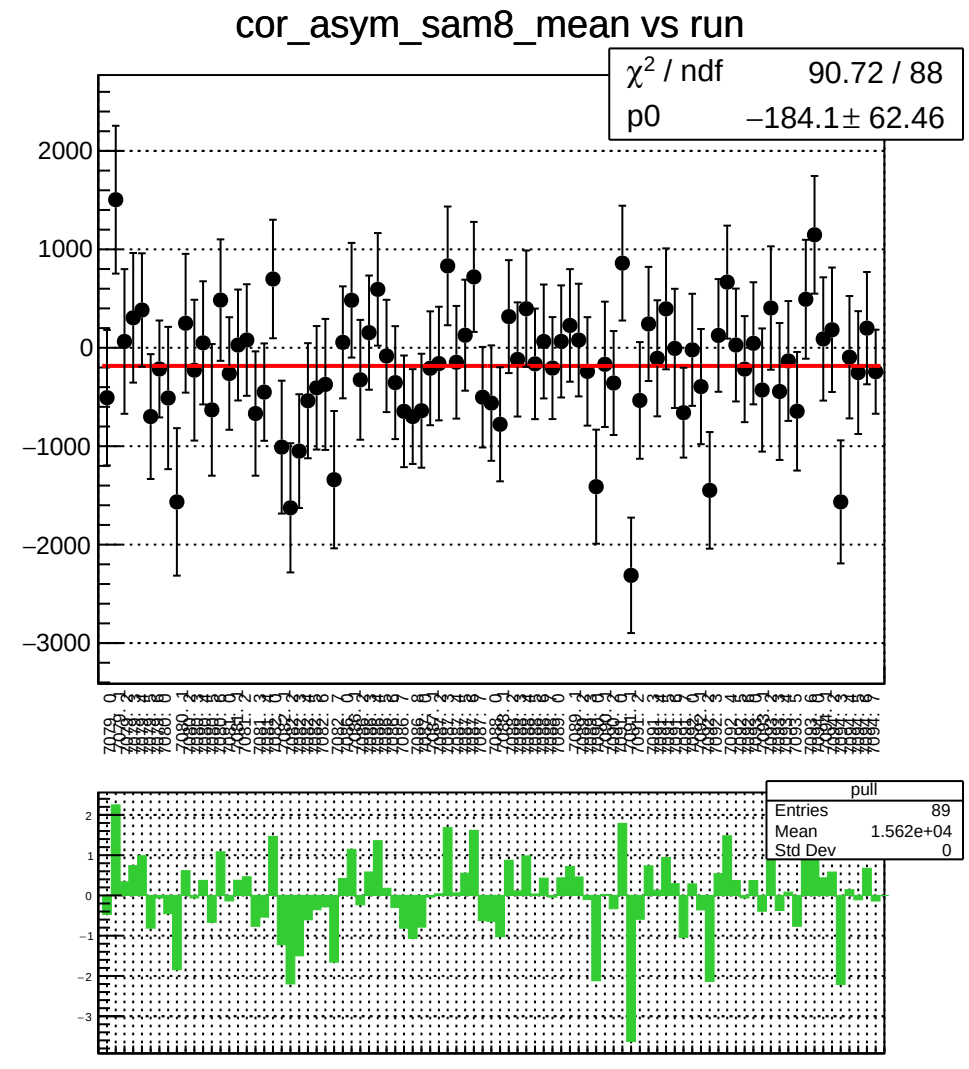

pull1D
Entries 89
Mean 6.385e−05
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

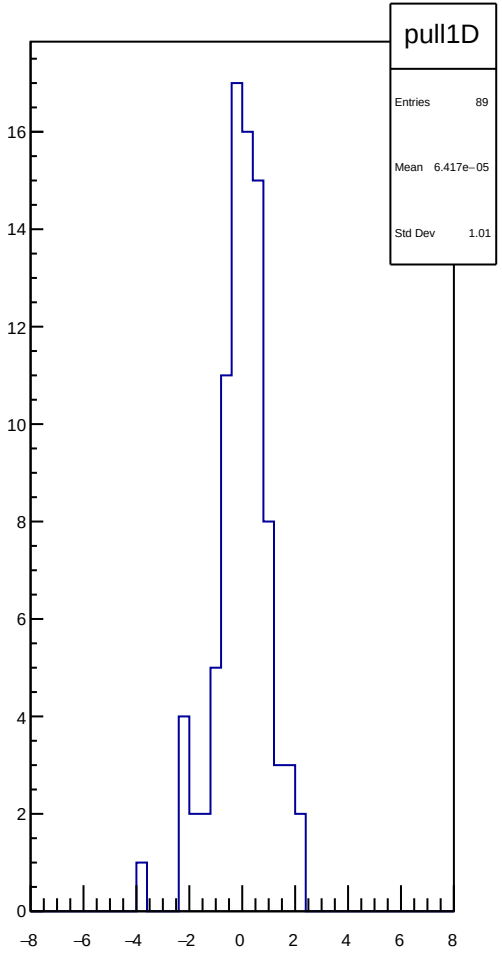

reg_asym_sam8_rms vs run
χ² / ndf 8495 / 88
p0 57.2 ± 0.04417
72
70
68
66
64
62
60
58
56
54
52

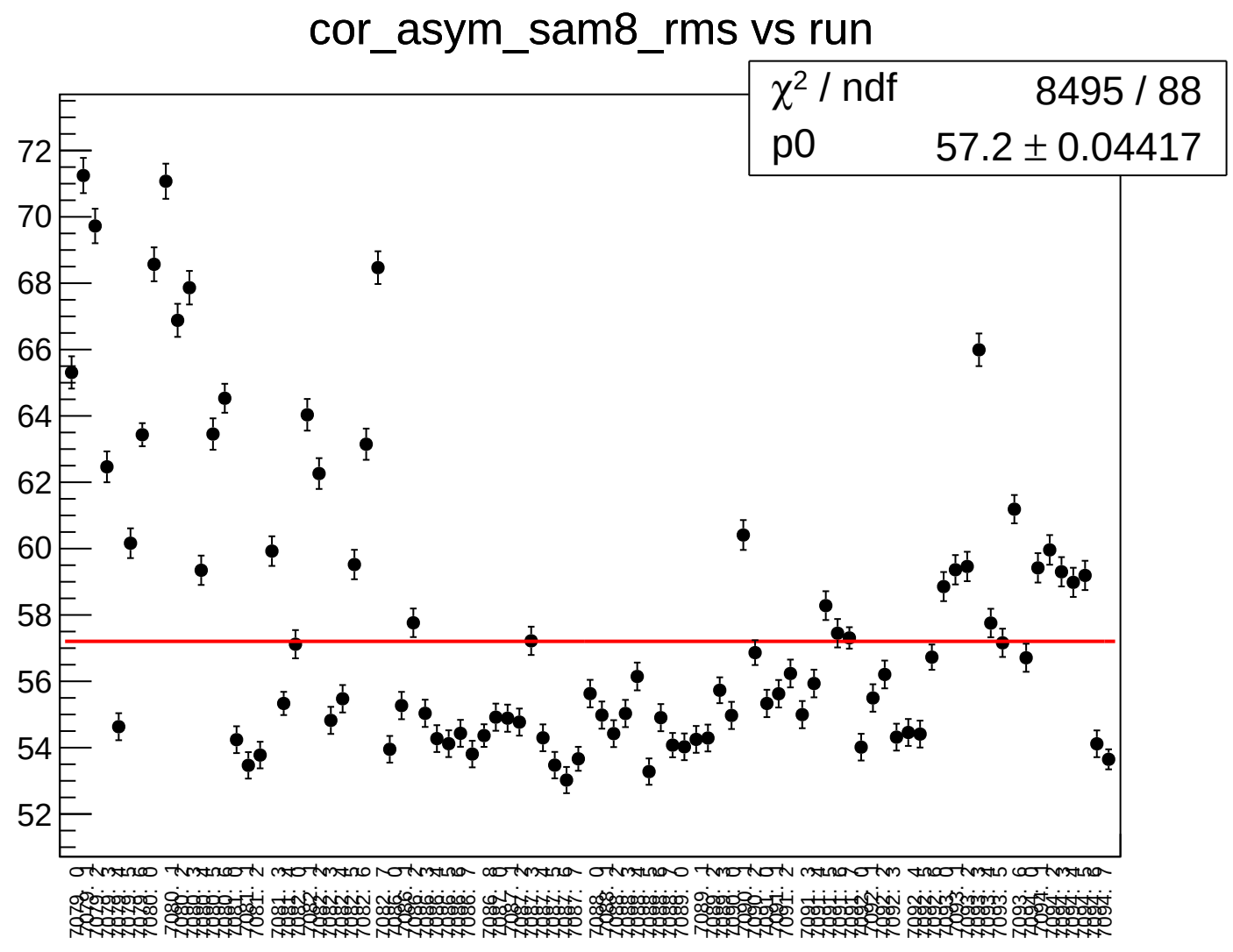

asym_sam8_reg_correction_mean vs run
χ² / ndf 89.77 / 88
p0 −532.5 ± 287.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 719.8
Std Dev 0
2
1
0
−1
−2

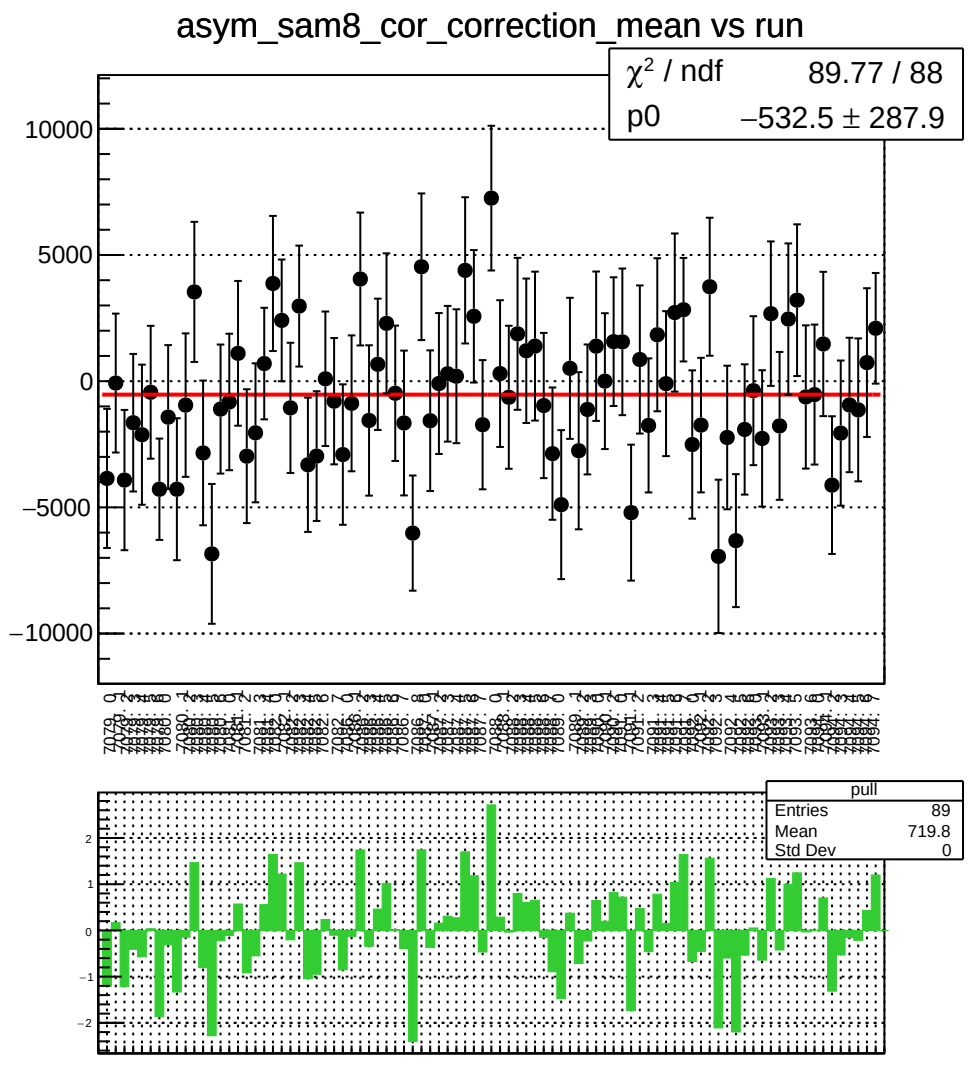

pull1D
Entries 89
Mean 0.004652
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

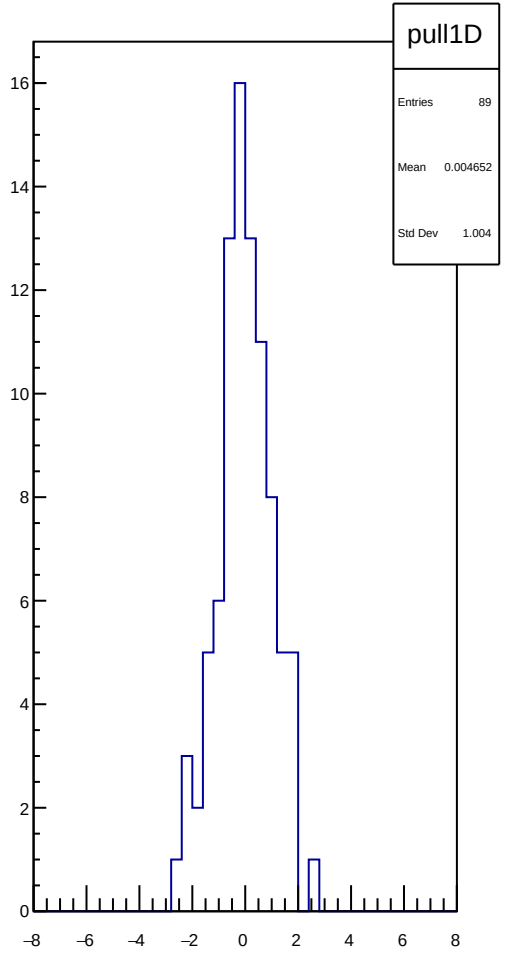

asym_sam8_reg_correction_rms vs run
χ² / ndf 4295 / 88
p0 264 ± 0.2036
300
290
280
270
260
250
240
230
220

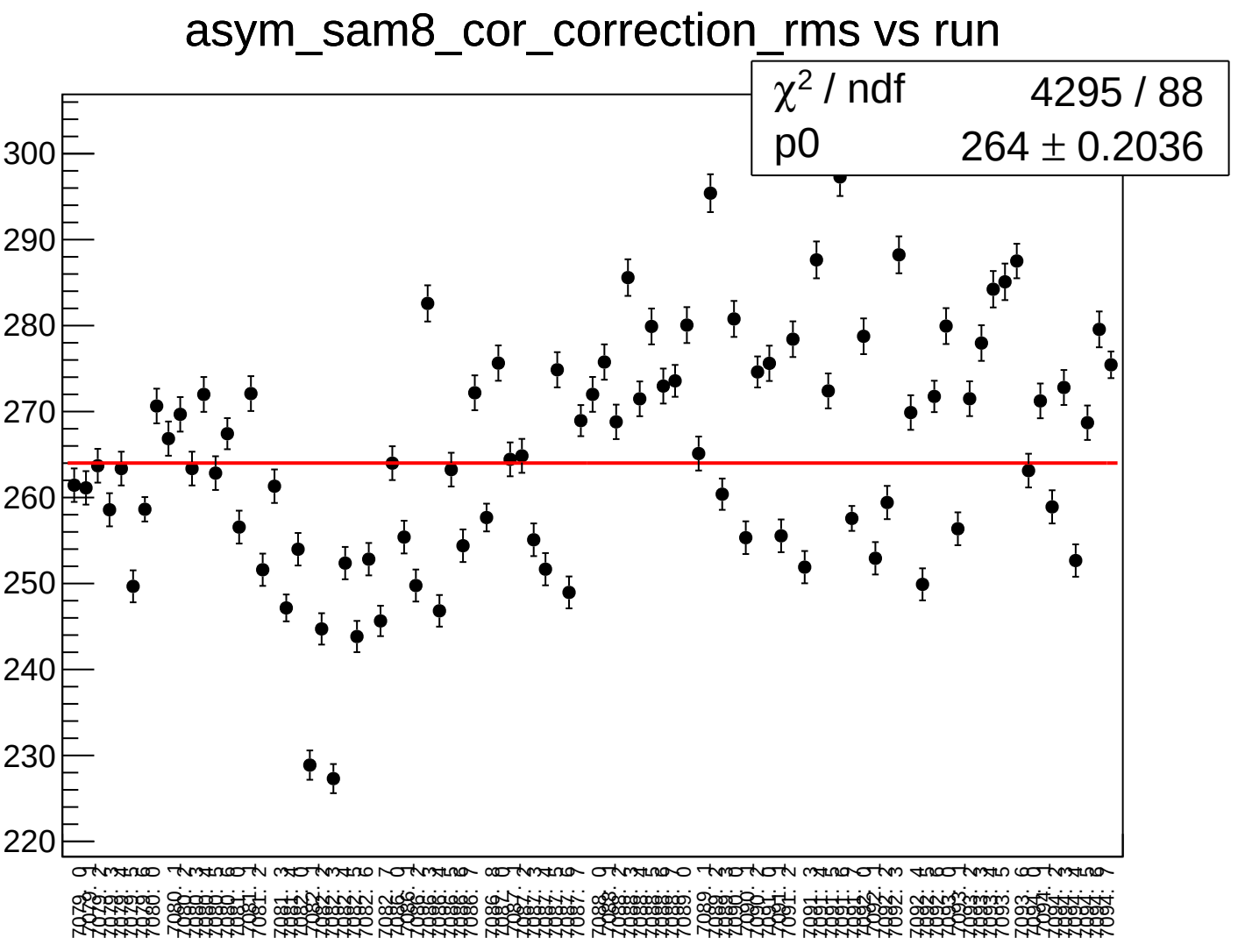

cor_asym_sam8_mean vs run
χ² / ndf 90.72 / 88
p0 −184.1± 62.46
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 1.562e+04
Std Dev 0
2
1
0
−1
−2
−3

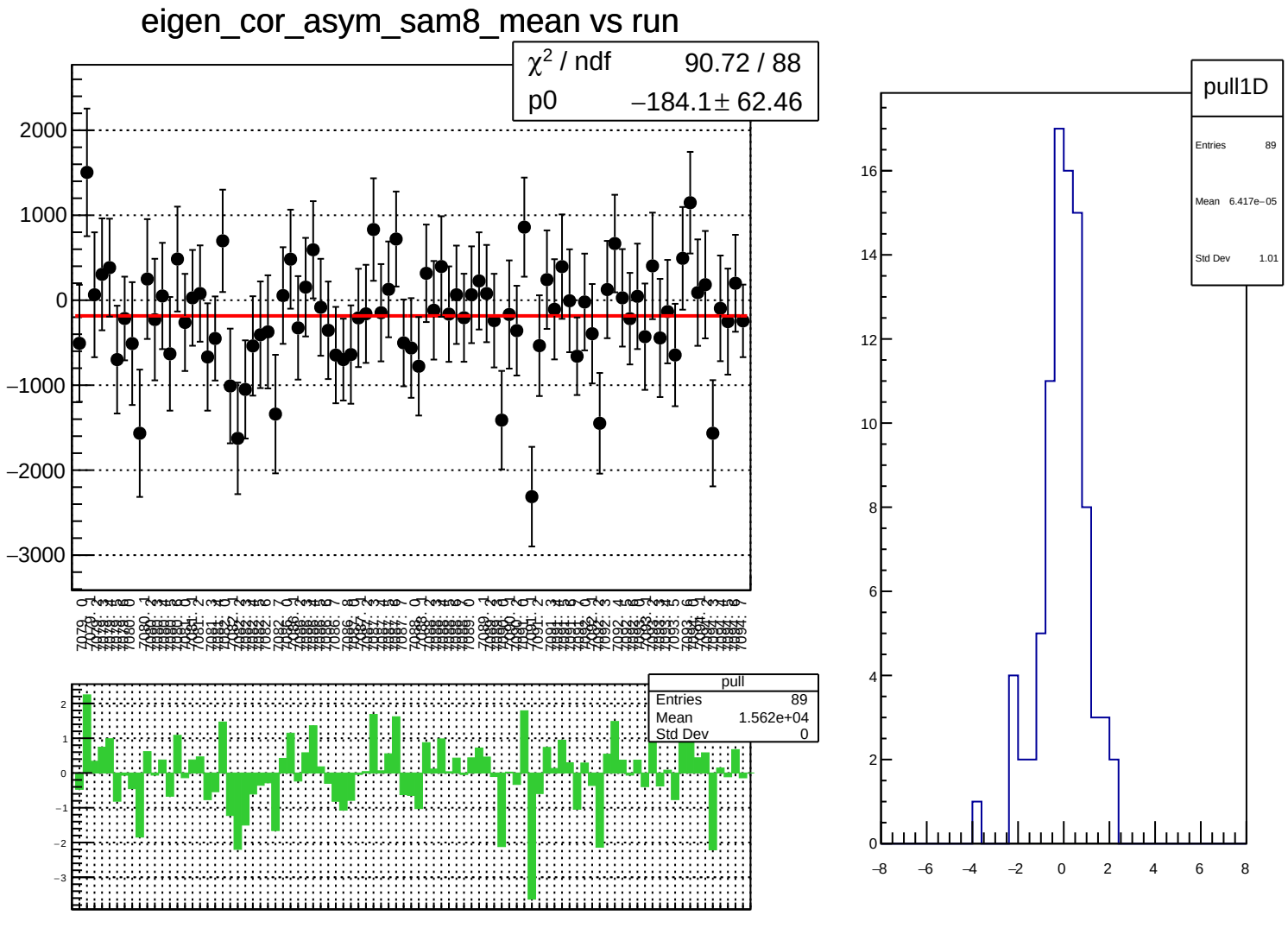

pull1D
Entries 89
Mean 6.417e−05
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

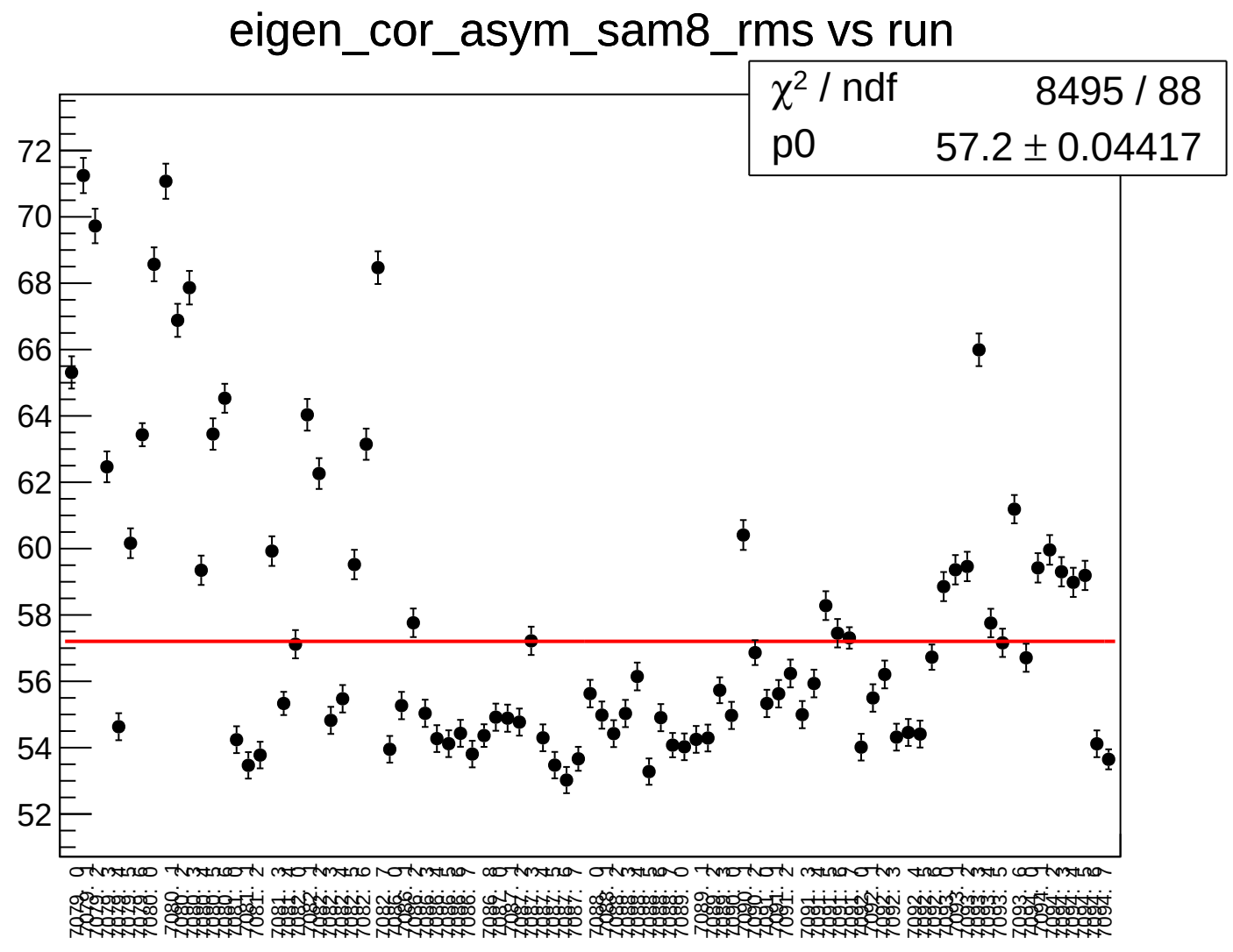

cor_asym_sam8_rms vs run
χ² / ndf 8495 / 88
p0 57.2 ± 0.04417
72
70
68
66
64
62
60
58
56
54
52

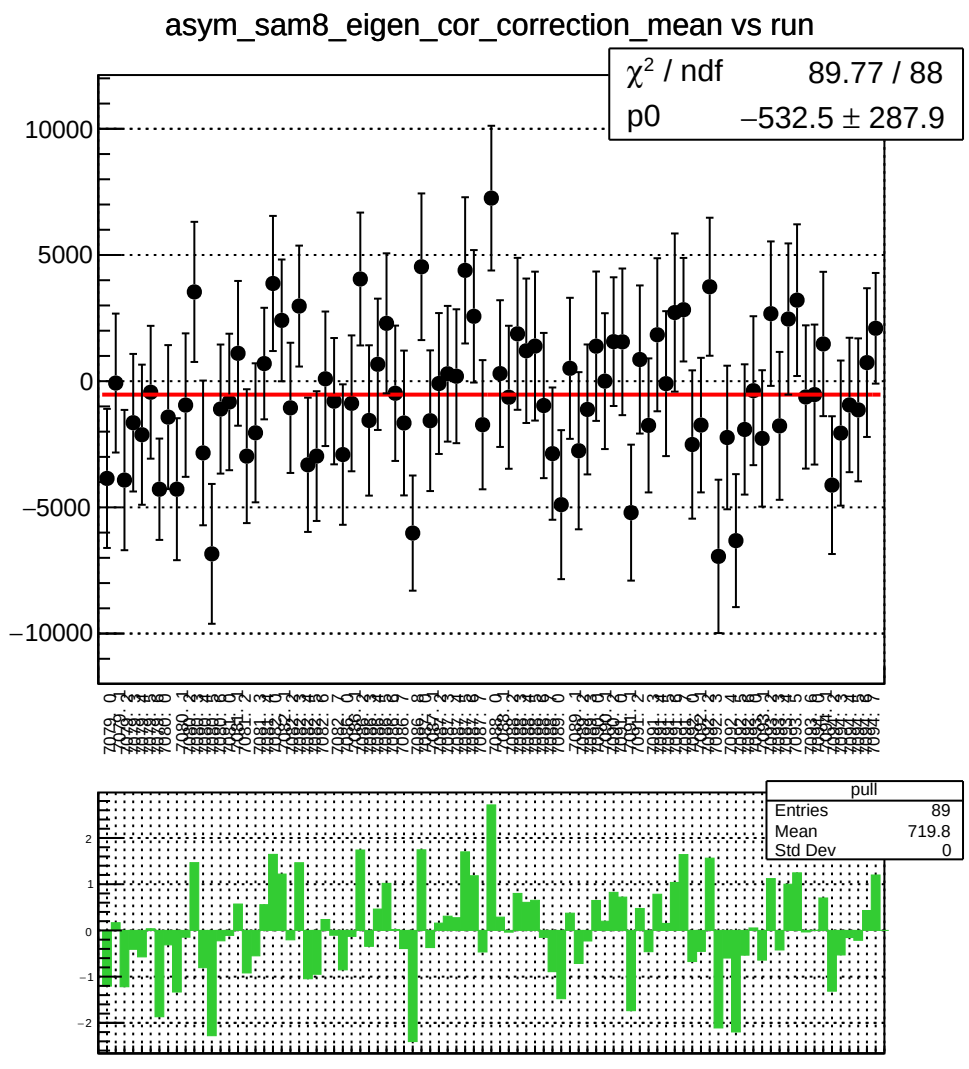

asym_sam8_cor_correction_mean vs run
χ² / ndf 89.77 / 88
p0 −532.5 ± 287.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 719.8
Std Dev 0
2
1
0
−1
−2

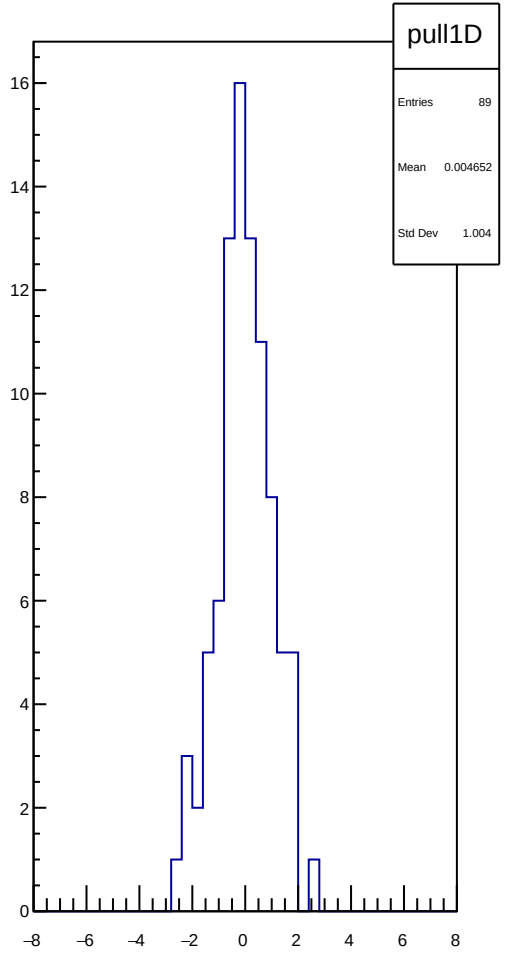

pull1D
Entries 89
Mean 0.004652
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

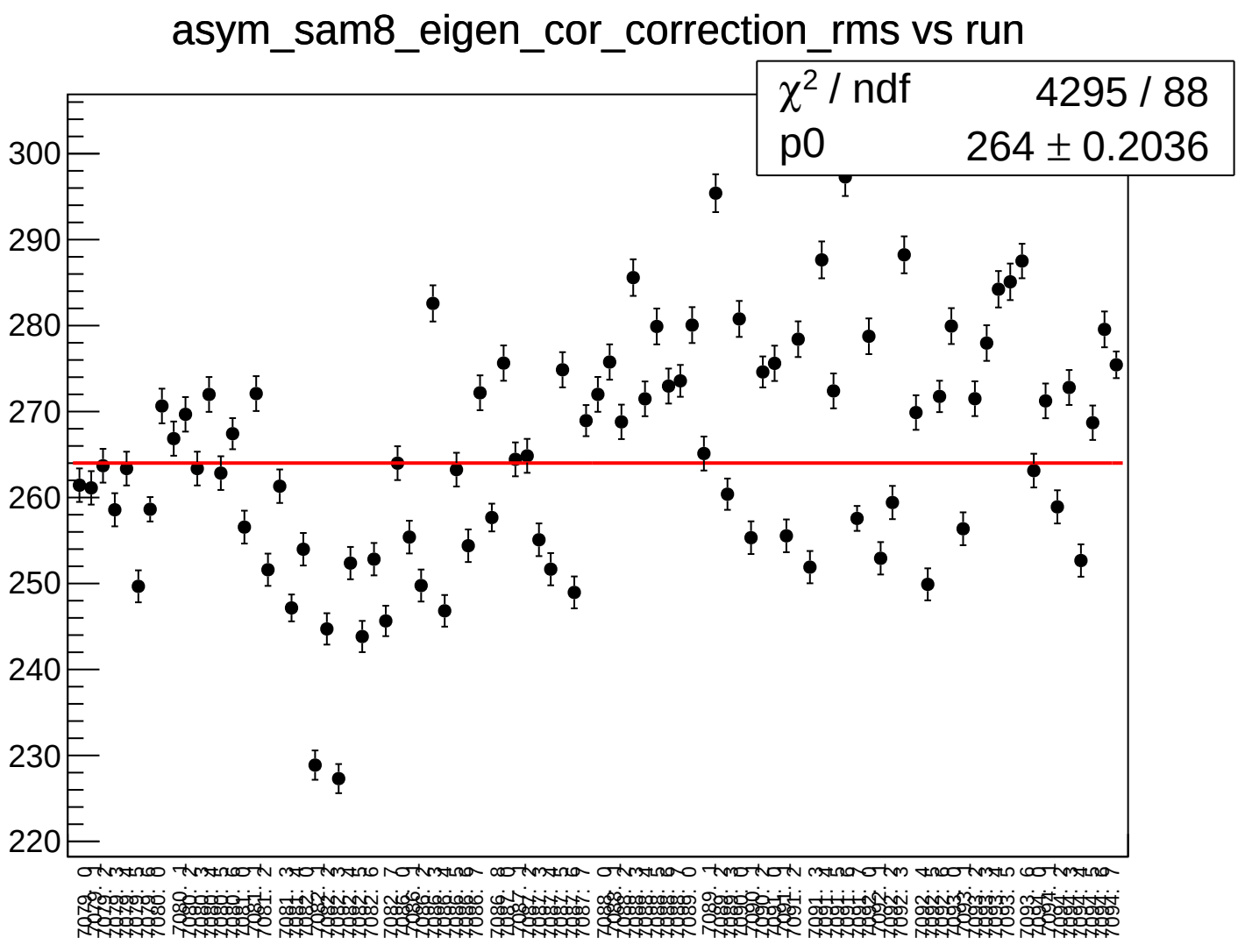

asym_sam8_cor_correction_rms vs run
χ² / ndf 4295 / 88
p0 264 ± 0.2036
300
290
280
270
260
250
240
230
220

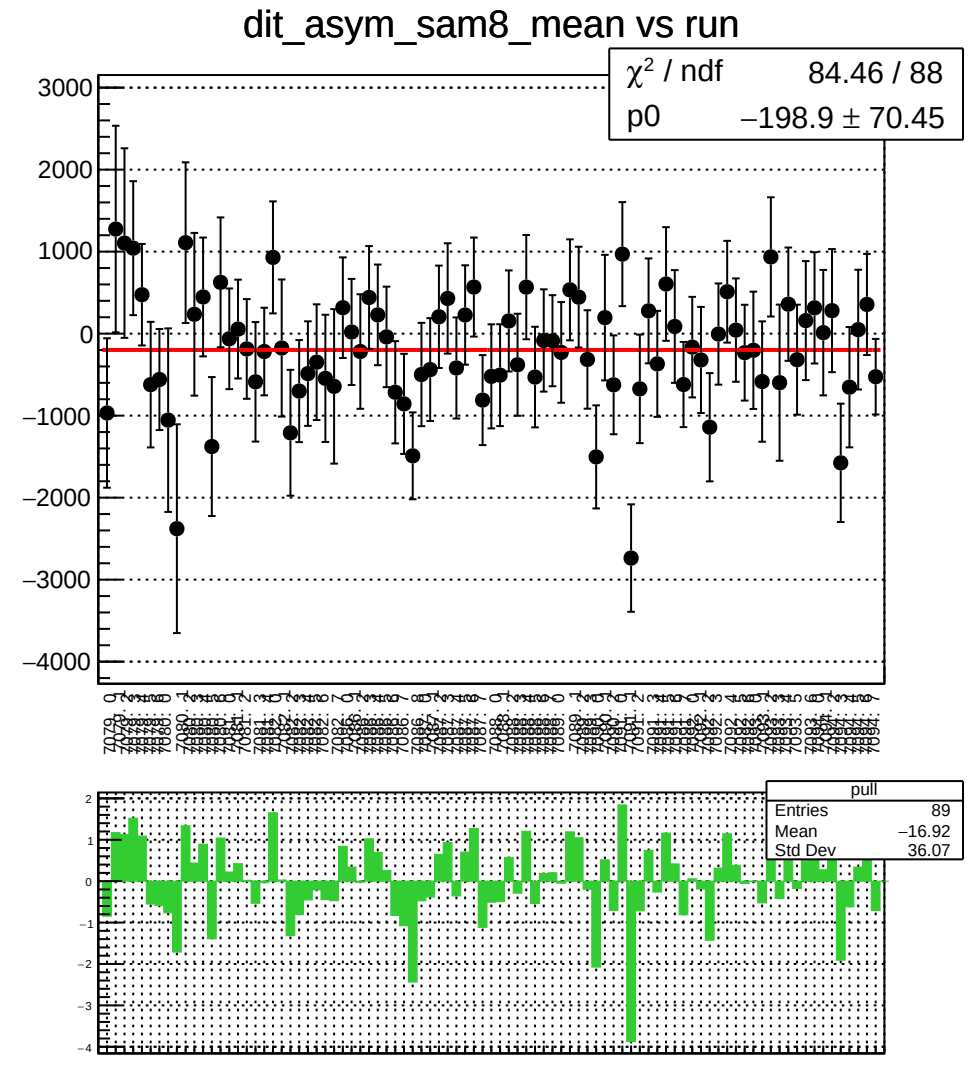

eigen_cor_asym_sam8_mean vs run
χ² / ndf 90.72 / 88
p0 −184.1± 62.46
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 1.562e+04
Std Dev 0
pull1D
Entries 89
Mean 6.417e−05
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

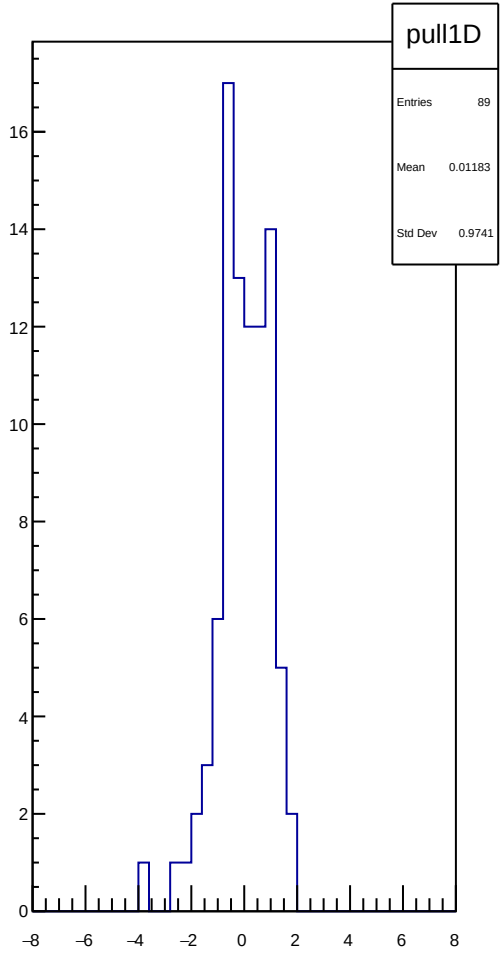

eigen_cor_asym_sam8_rms vs run
χ² / ndf 8495 / 88
p0 57.2 ± 0.04417
72
70
68
66
64
62
60
58
56
54
52

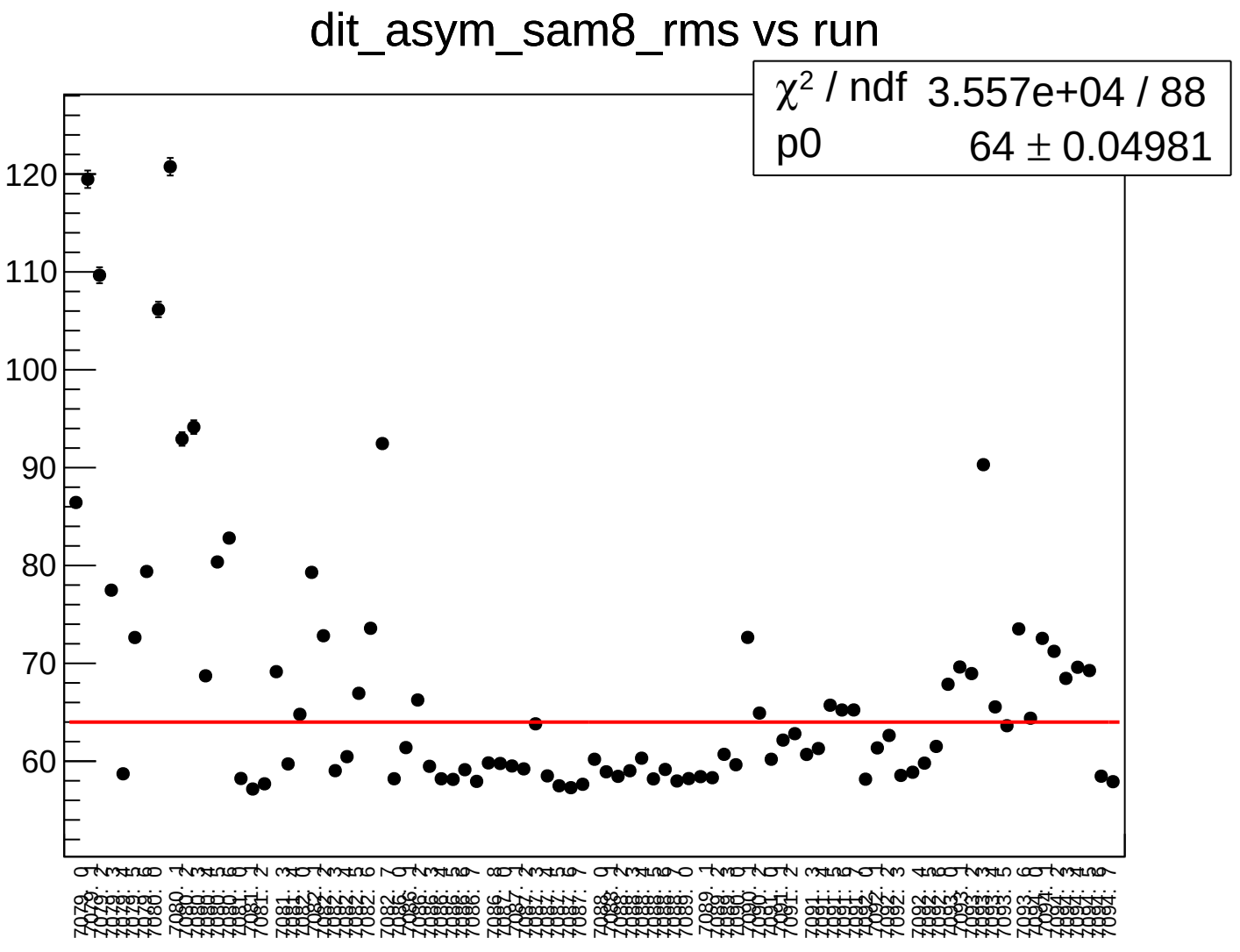

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 89.77 / 88
p0 −532.5 ± 287.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 719.8
Std Dev 0
2
1
0
−1
−2

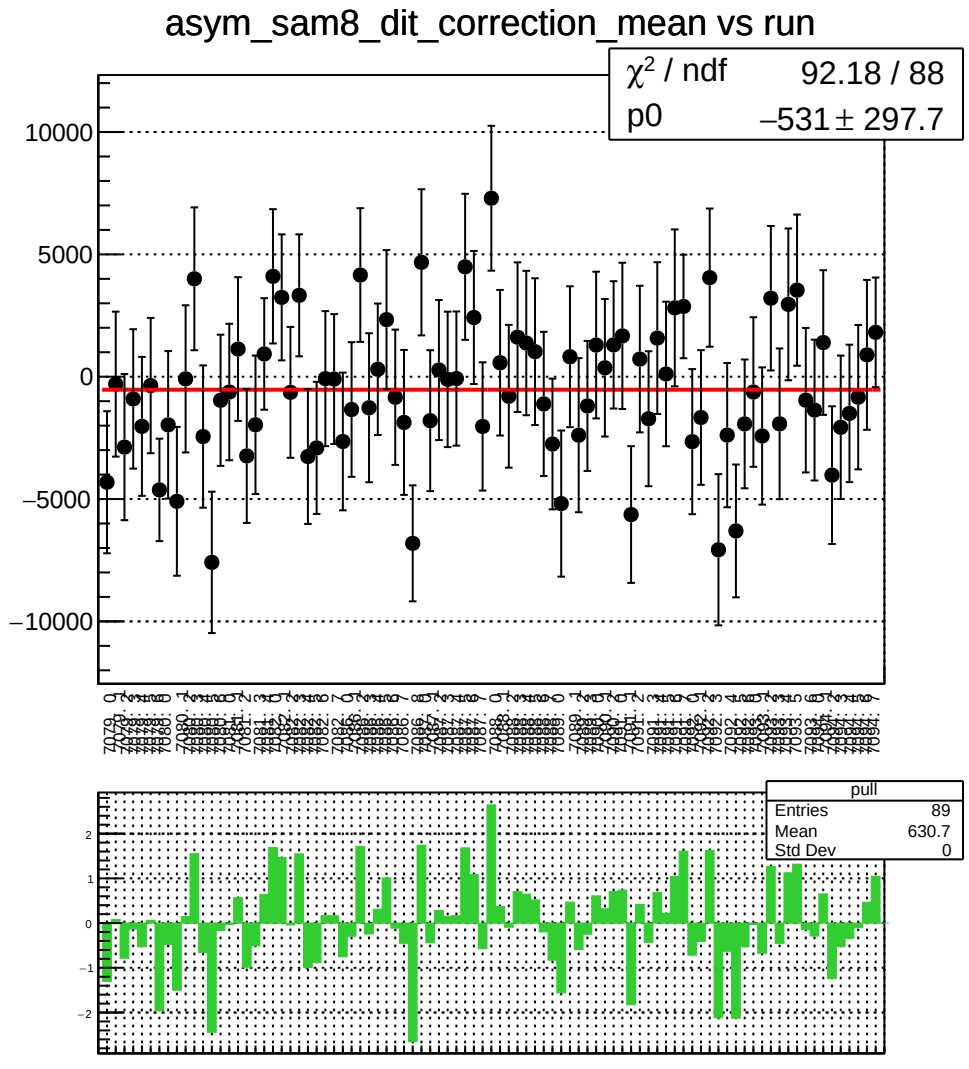

pull1D
Entries 89
Mean 0.004652
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

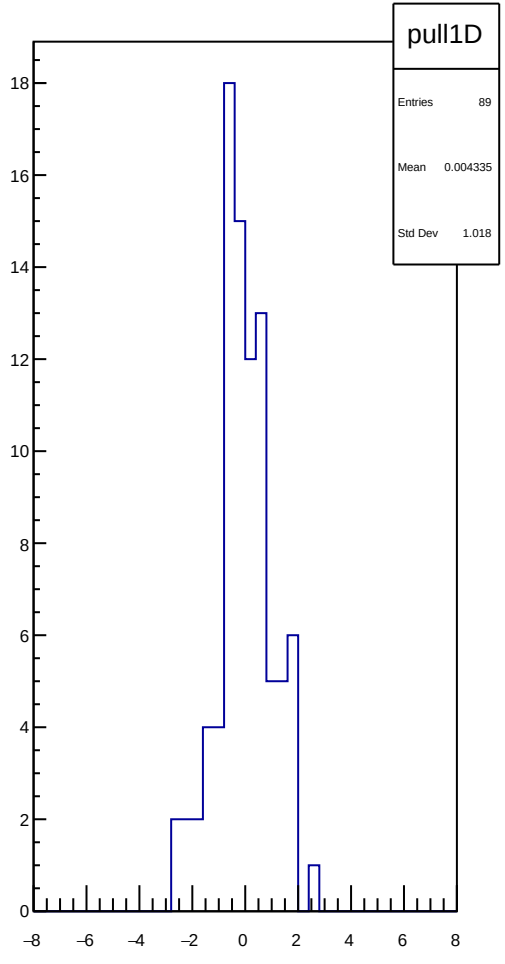

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 4295 / 88
p0 264 ± 0.2036
300
290
280
270
260
250
240
230
220

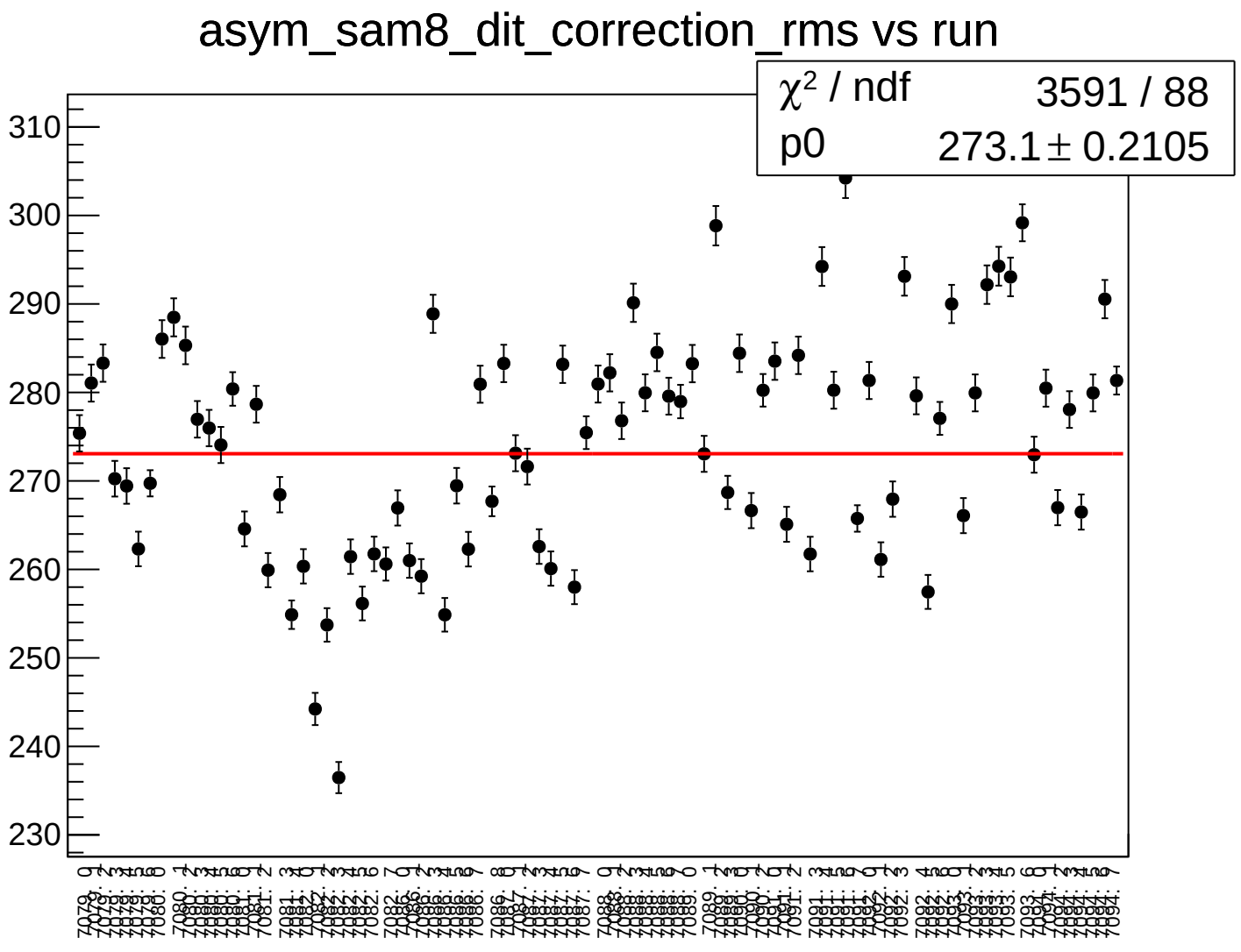

dit_asym_sam8_mean vs run
χ² / ndf 84.46 / 88
p0 −198.9 ± 70.45
pull
Entries 89
Mean −16.92
Std Dev 36.07

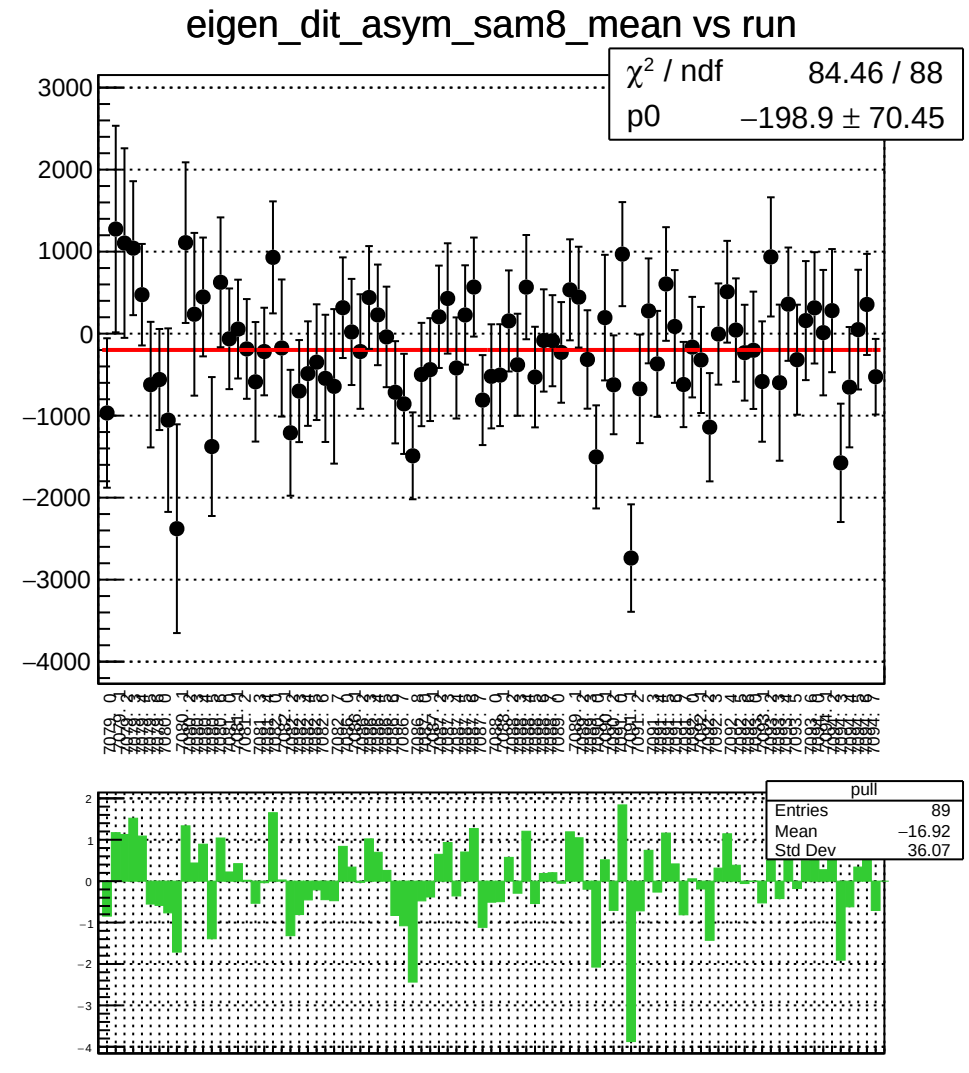

pull1D
Entries 89
Mean 0.01183
Std Dev 0.9741

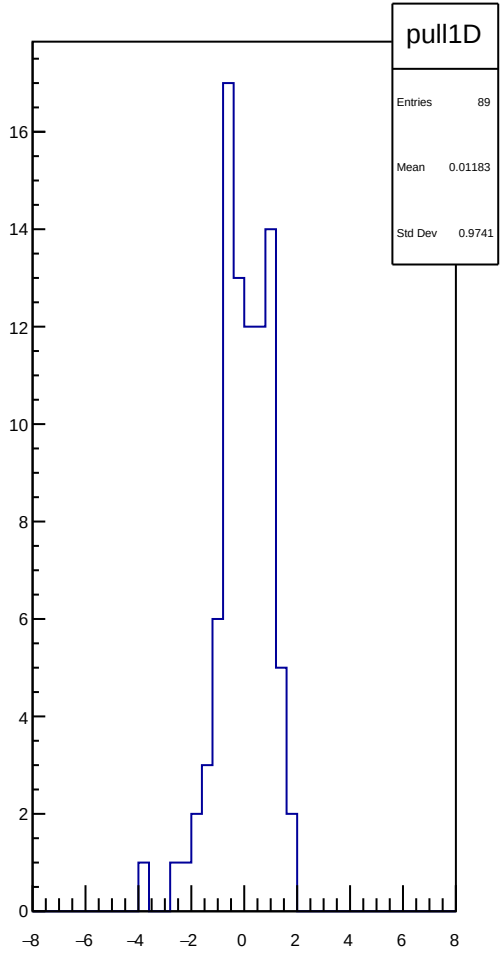

dit_asym_sam8_rms vs run
χ² / ndf 3.557e+04 / 88
p0 64 ± 0.04981
120
110
100
90
80
70
60

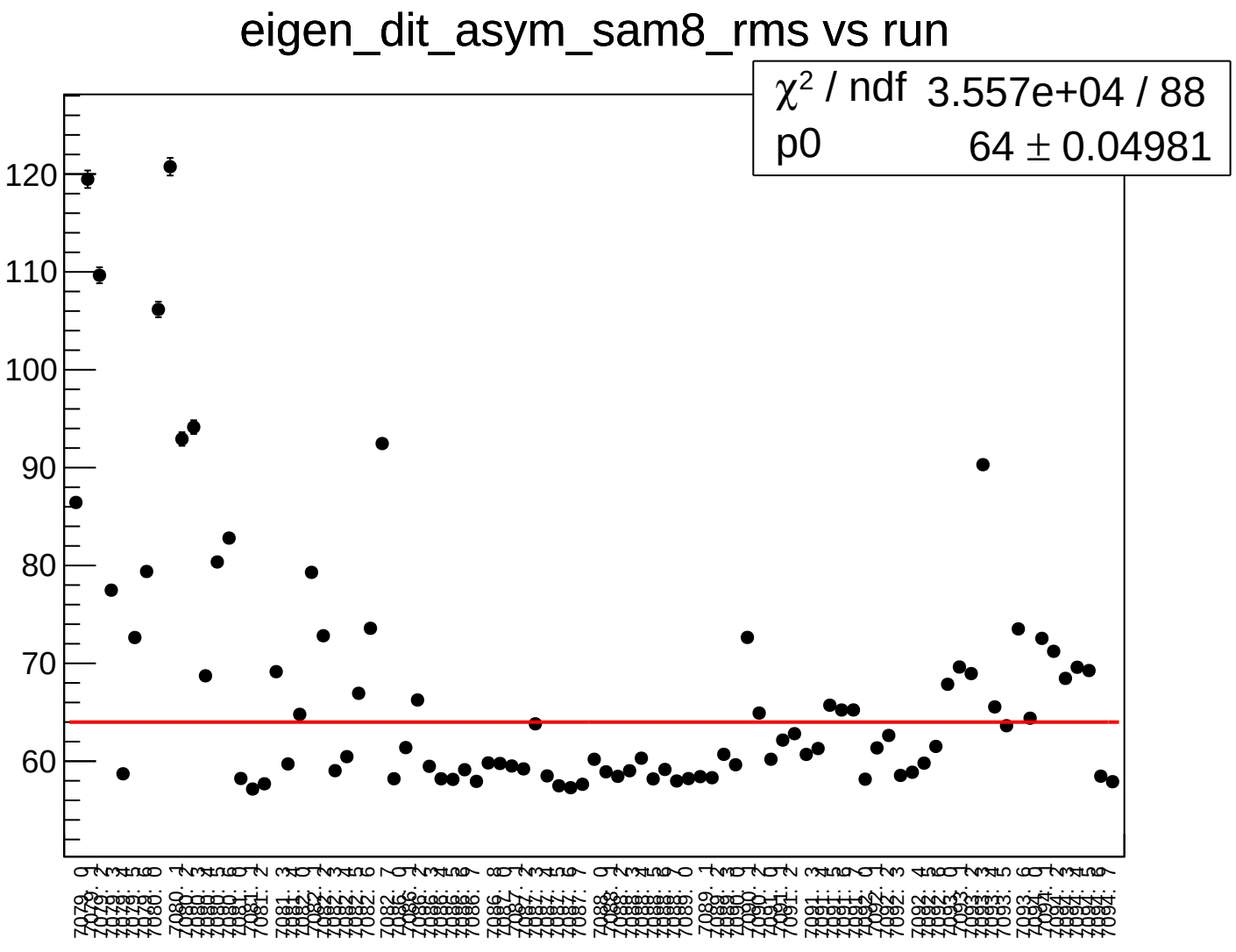

asym_sam8_dit_correction_mean vs run
χ² / ndf 92.18 / 88
p0 −531 ± 297.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 630.7
Std Dev 0
2
1
0
−1
−2

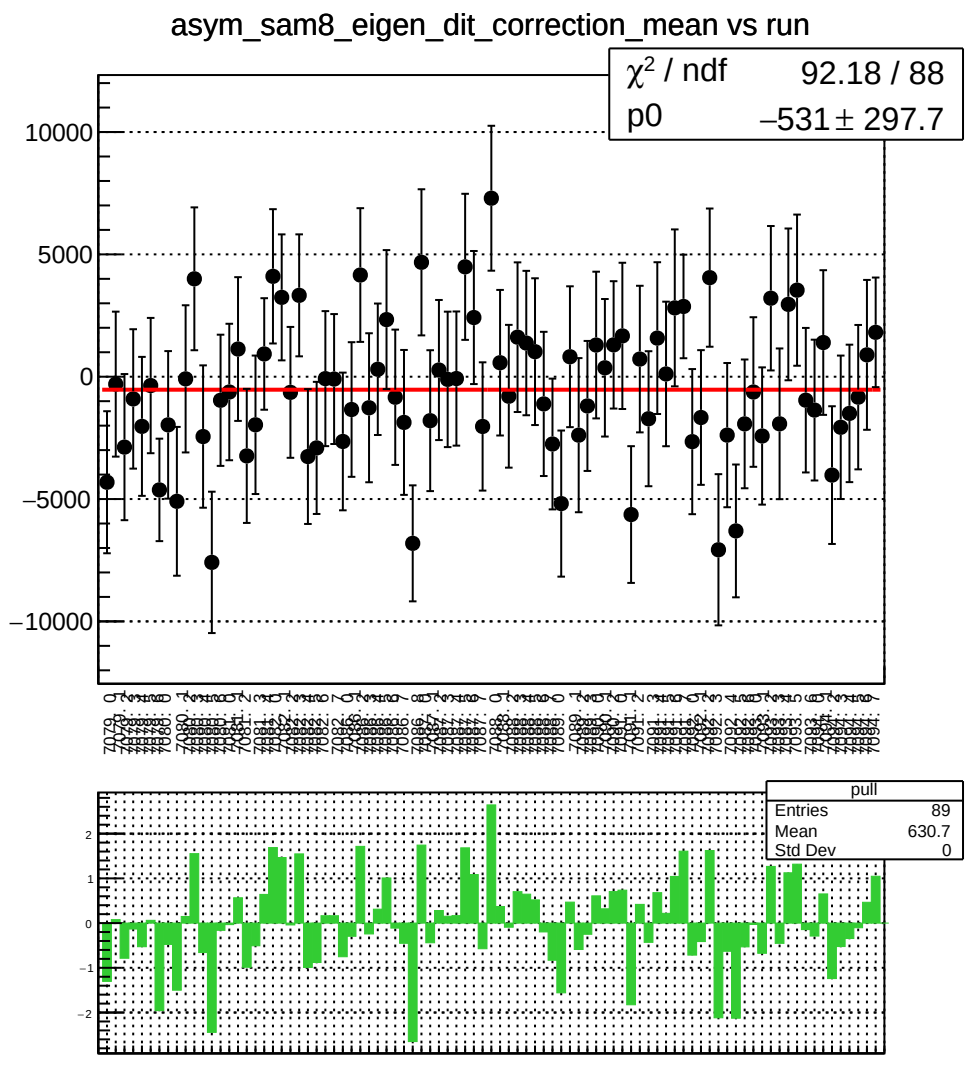

pull1D
Entries 89
Mean 0.004335
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

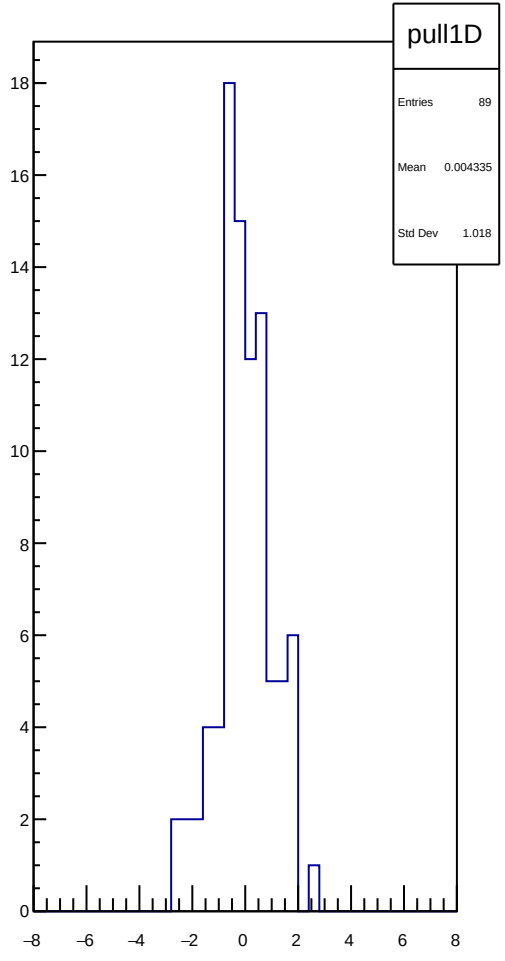

asym_sam8_dit_correction_rms vs run
χ² / ndf 3591 / 88
p0 273.1 ± 0.2105
310
300
290
280
270
260
250
240
230

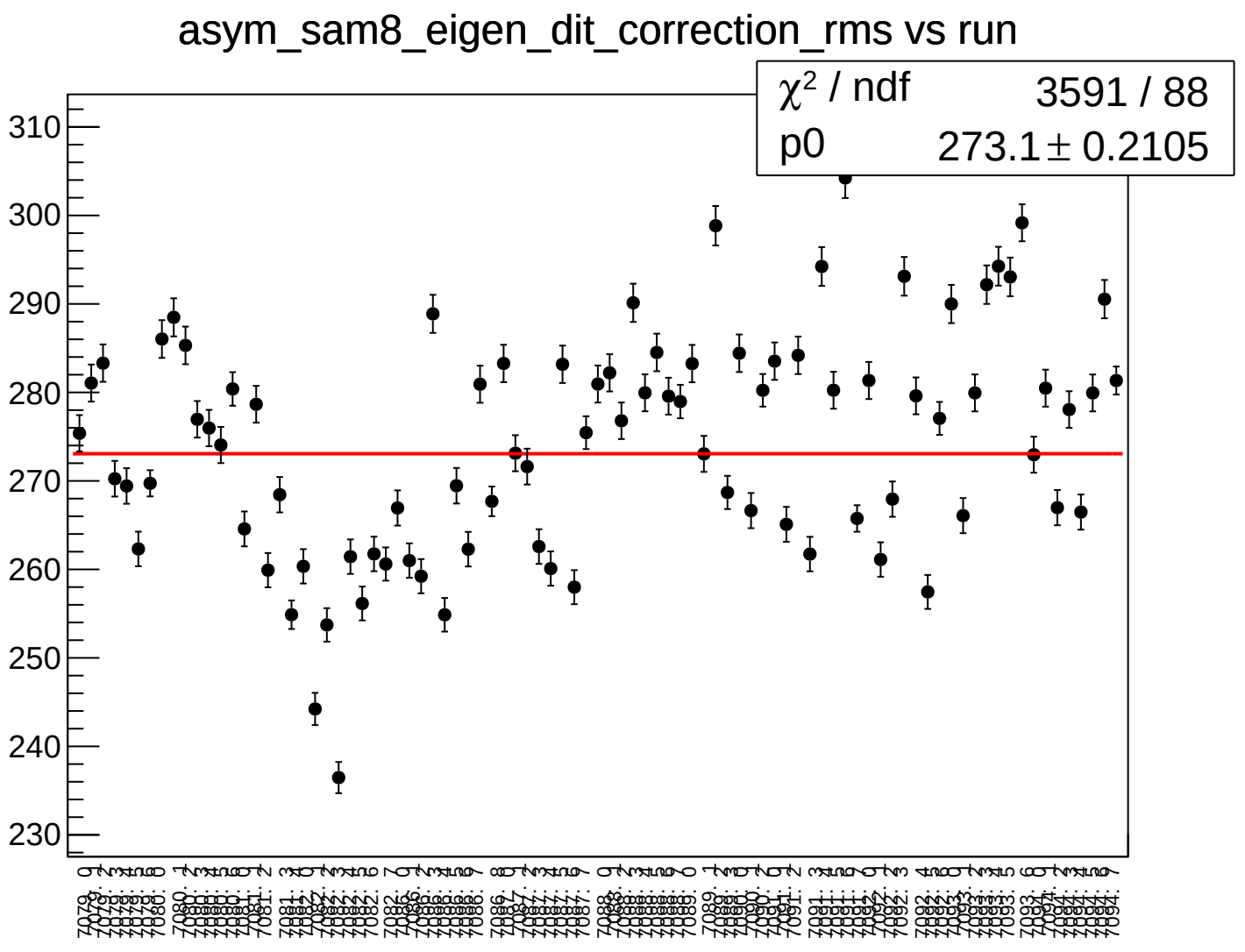

eigen_dit_asym_sam8_mean vs run
χ² / ndf 84.46 / 88
p0 −198.9 ± 70.45
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean −16.92
Std Dev 36.07
2
1
0
−1
−2
−3
−4

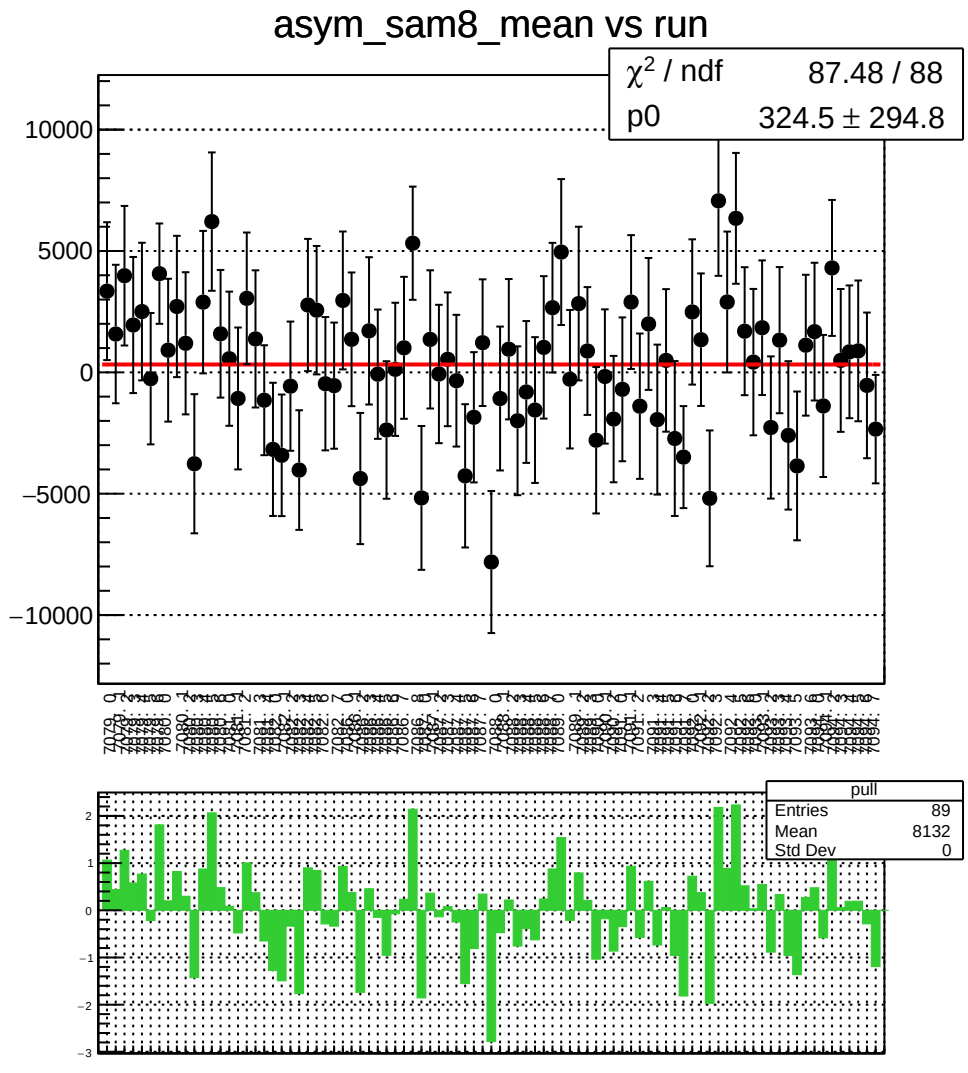

pull1D
Entries 89
Mean 0.01183
Std Dev 0.9741
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

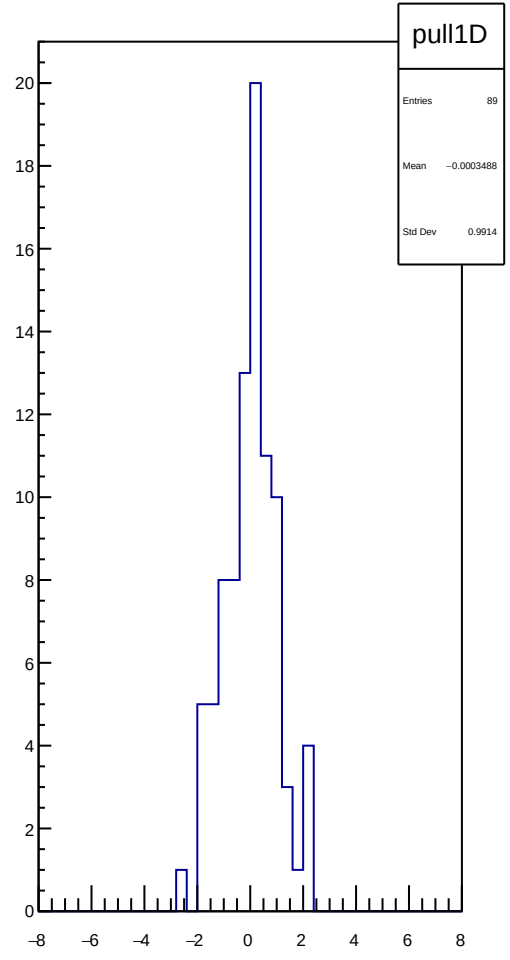

eigen_dit_asym_sam8_rms vs run
χ² / ndf 3.557e+04 / 88
p0 64 ± 0.04981
120
110
100
90
80
70
60

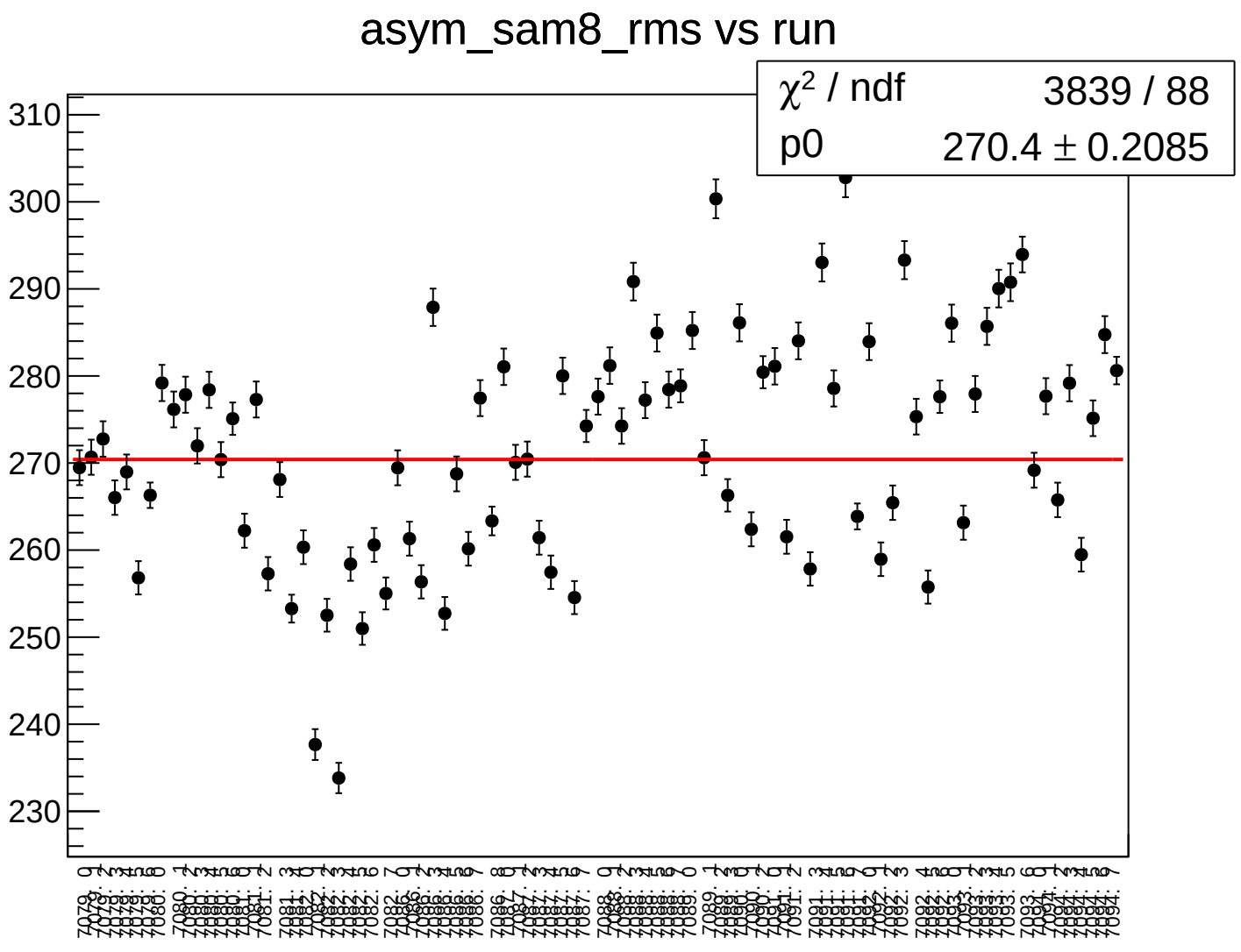

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 92.18 / 88
p0 −531 ± 297.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 630.7
Std Dev 0
2
1
0
−1
−2

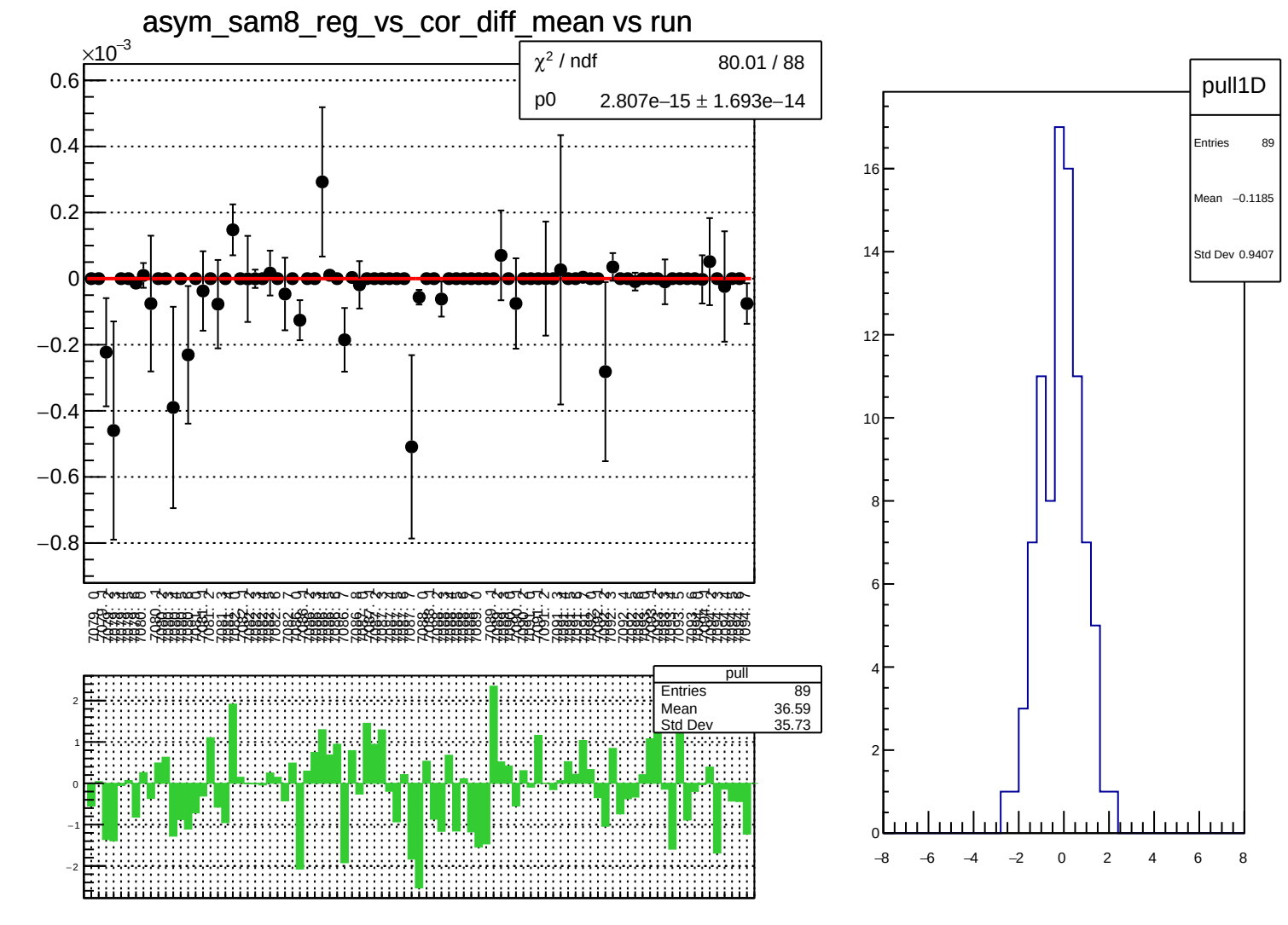

pull1D
Entries 89
Mean 0.004335
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

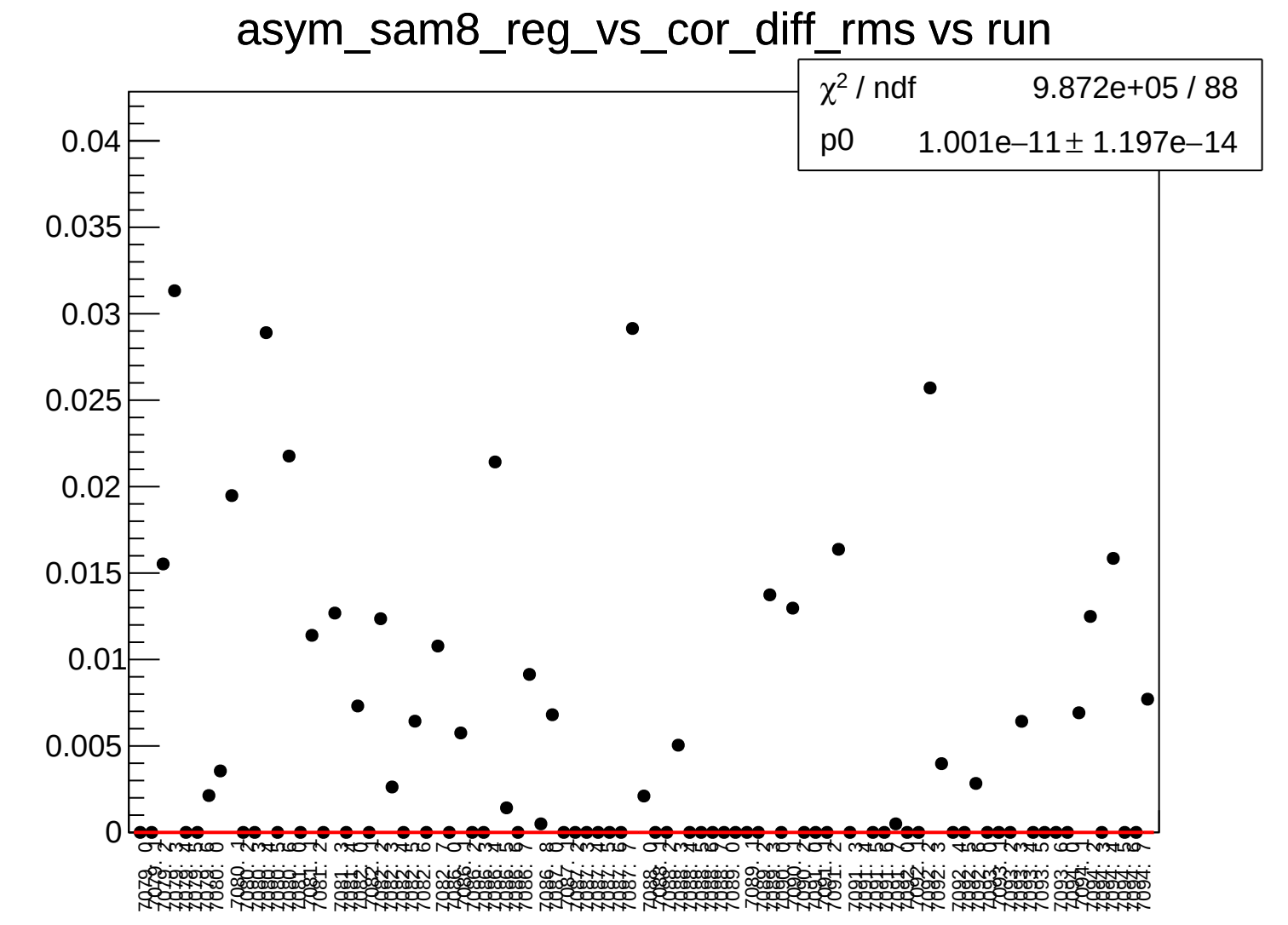

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 3591 / 88
p0 273.1 ± 0.2105
310
300
290
280
270
260
250
240
230

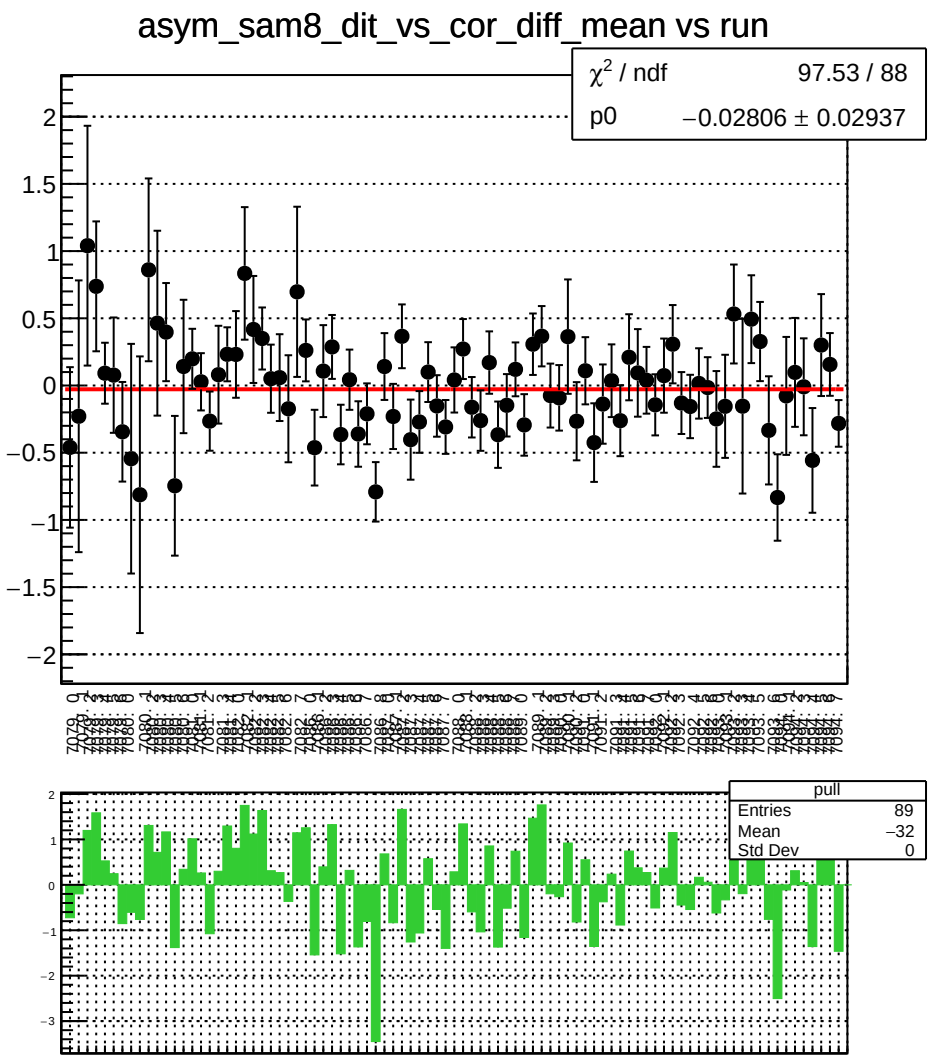

asym_sam8_mean vs run
χ² / ndf 87.48 / 88
p0 324.5 ± 294.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 8132
Std Dev 0
2
1
0
−1
−2
−3

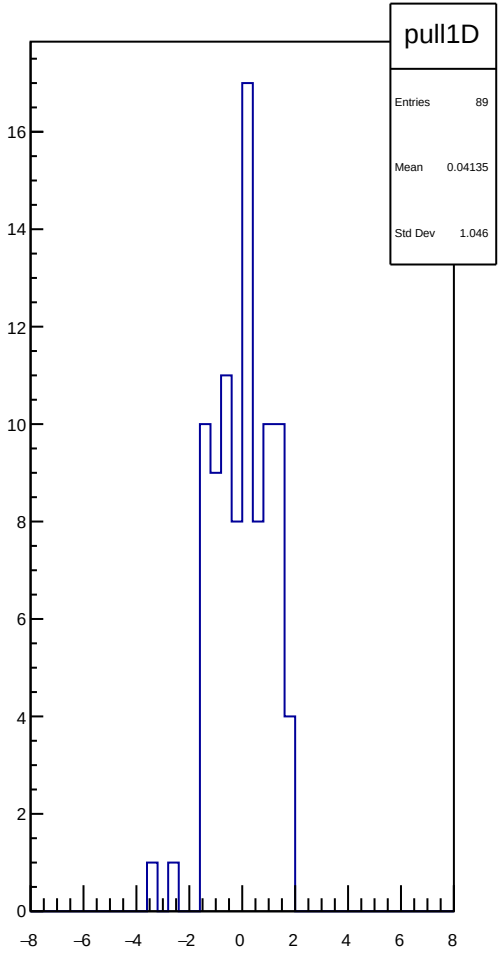

pull1D
Entries 89
Mean −0.0003488
Std Dev 0.9914
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

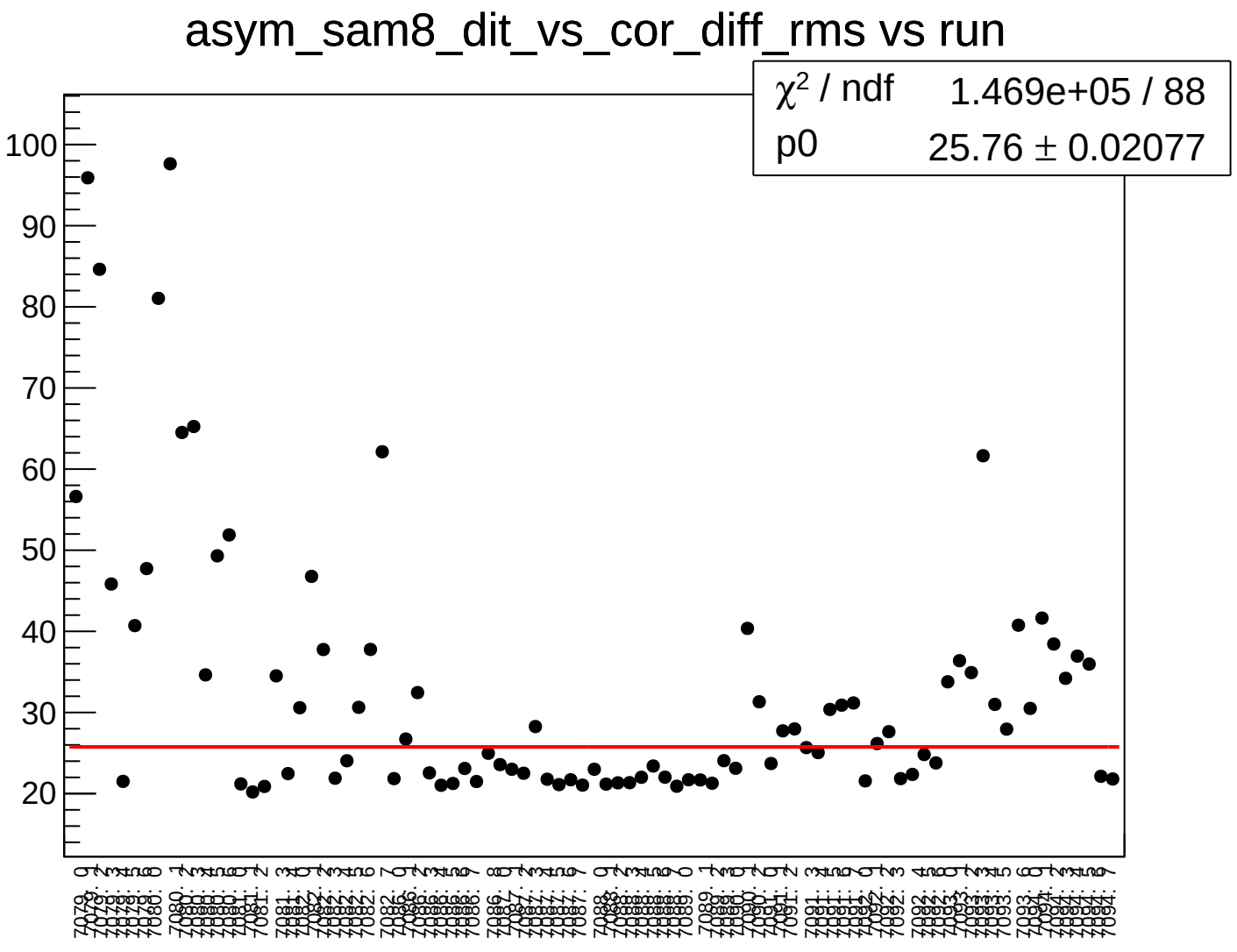

asym_sam8_rms vs run
χ² / ndf 3839 / 88
p0 270.4 ± 0.2085
310
300
290
280
270
260
250
240
230

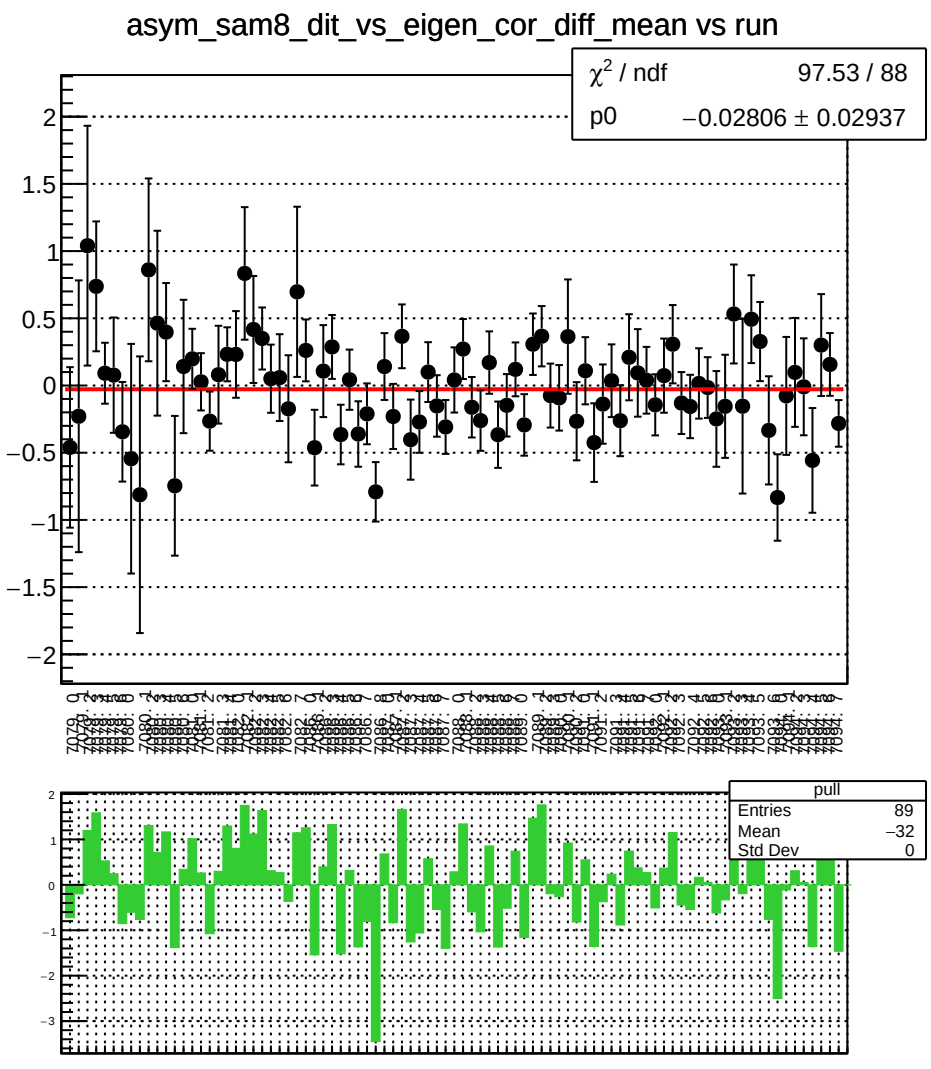

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 80.01 / 88
p0 2.807e−15 ± 1.693e−14
pull
Entries 89
Mean 36.59
Std Dev 35.73
pull1D
Entries 89
Mean −0.1185
Std Dev 0.9407

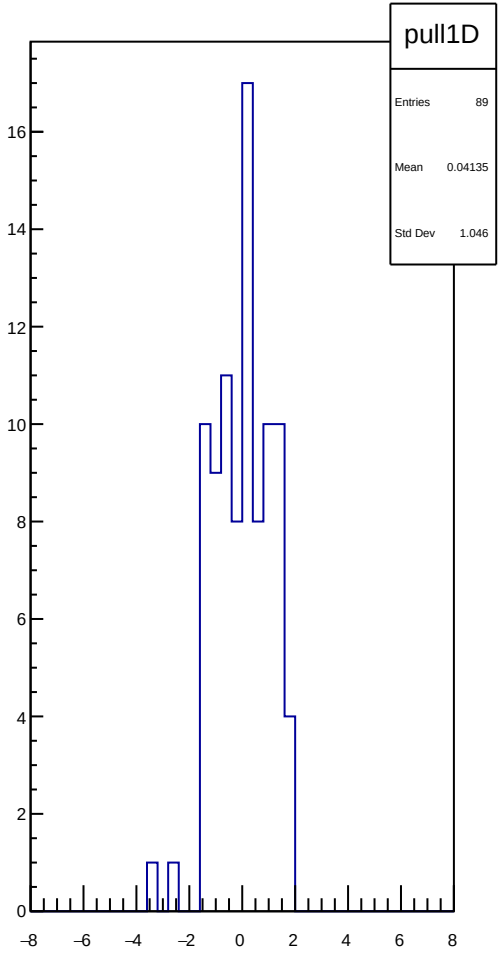

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 9.872e+05 / 88
p0 1.001e−11 ± 1.197e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

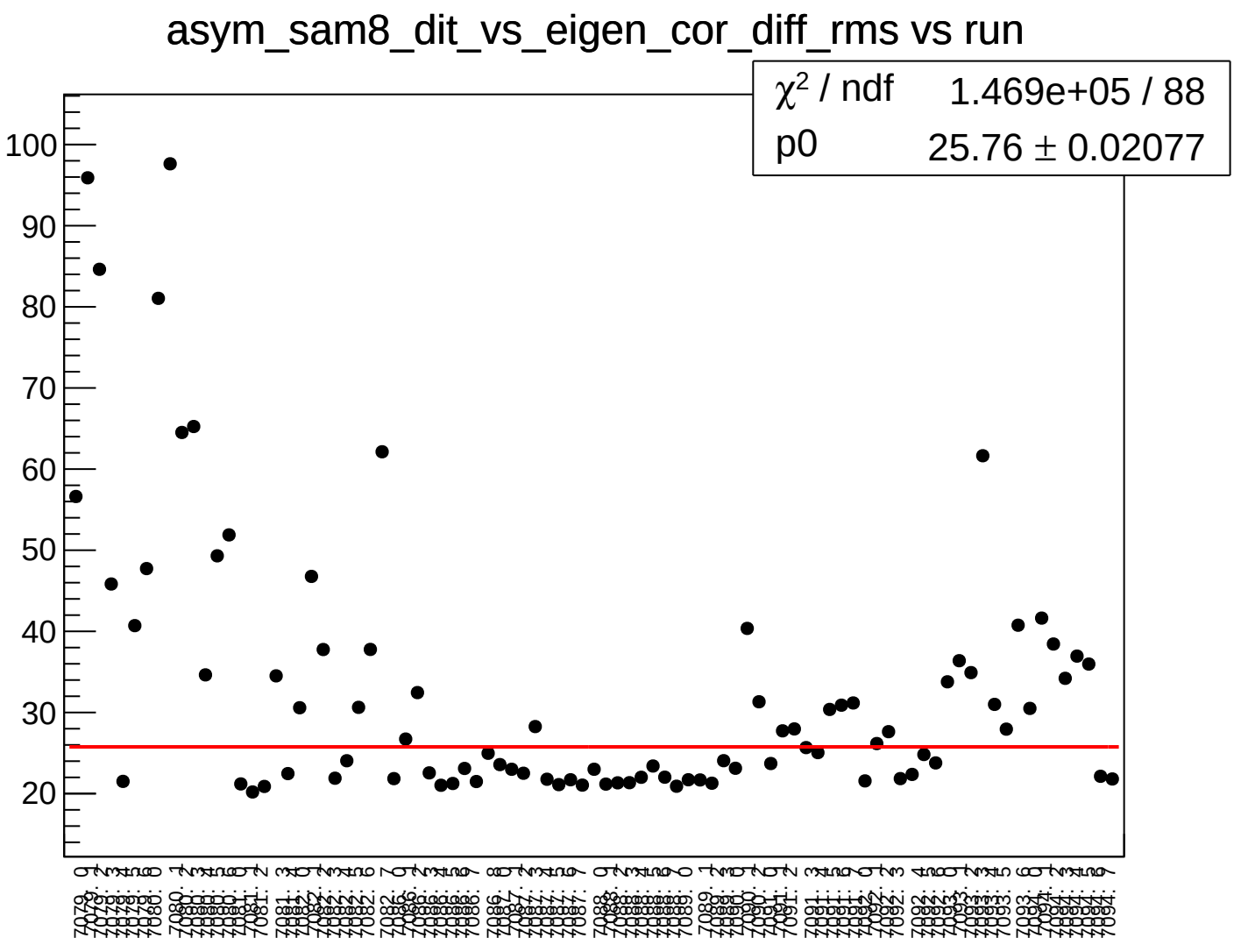

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 97.53 / 88
p0 −0.02806 ± 0.02937
pull
Entries 89
Mean −32
Std Dev 0

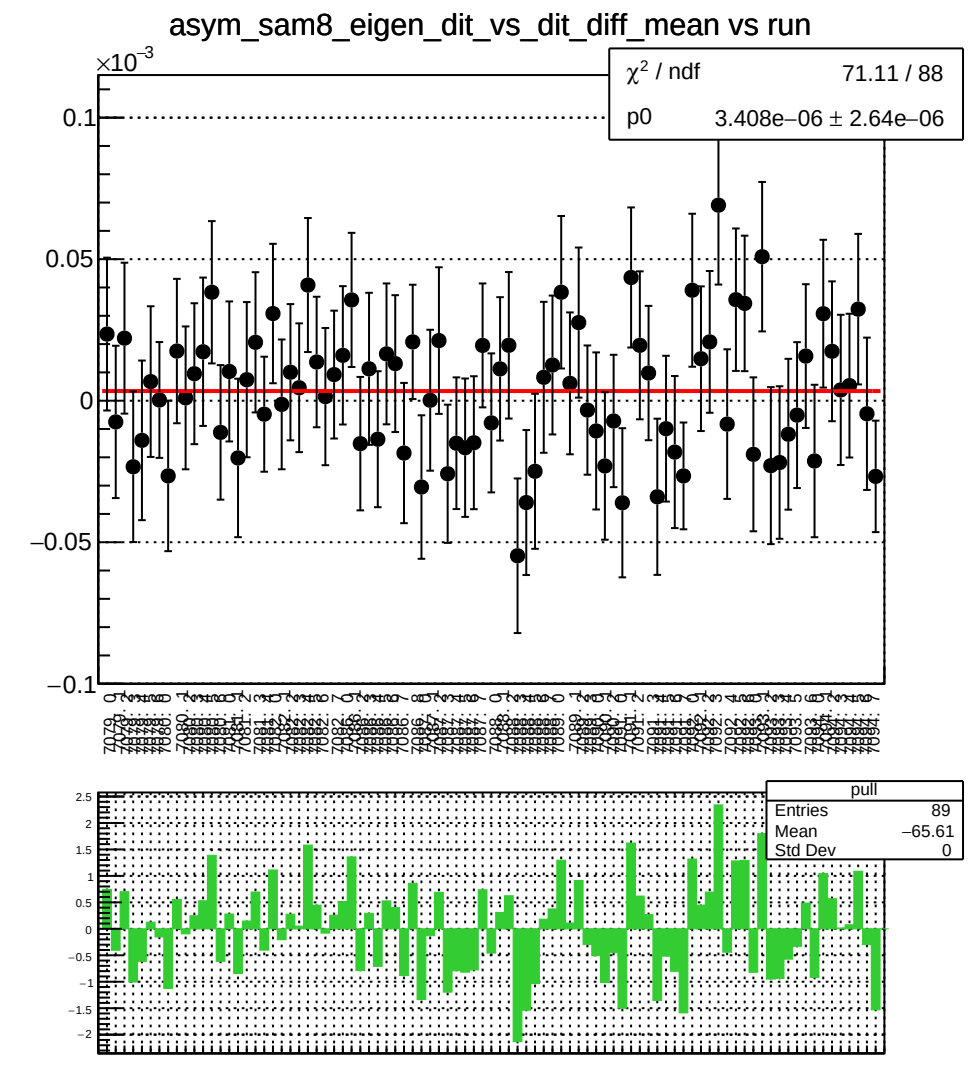

pull1D
Entries 89
Mean 0.04135
Std Dev 1.046

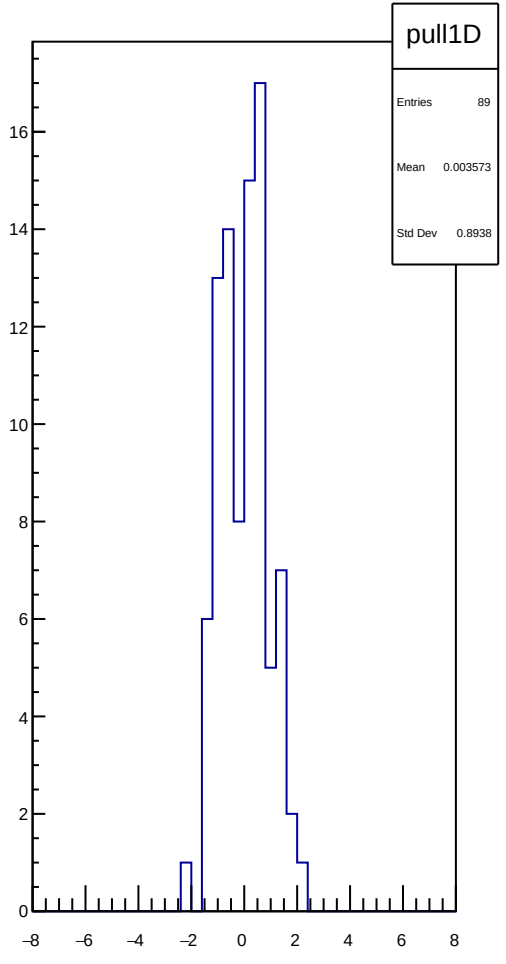

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.469e+05 / 88
p0 25.76 ± 0.02077
100
90
80
70
60
50
40
30
20

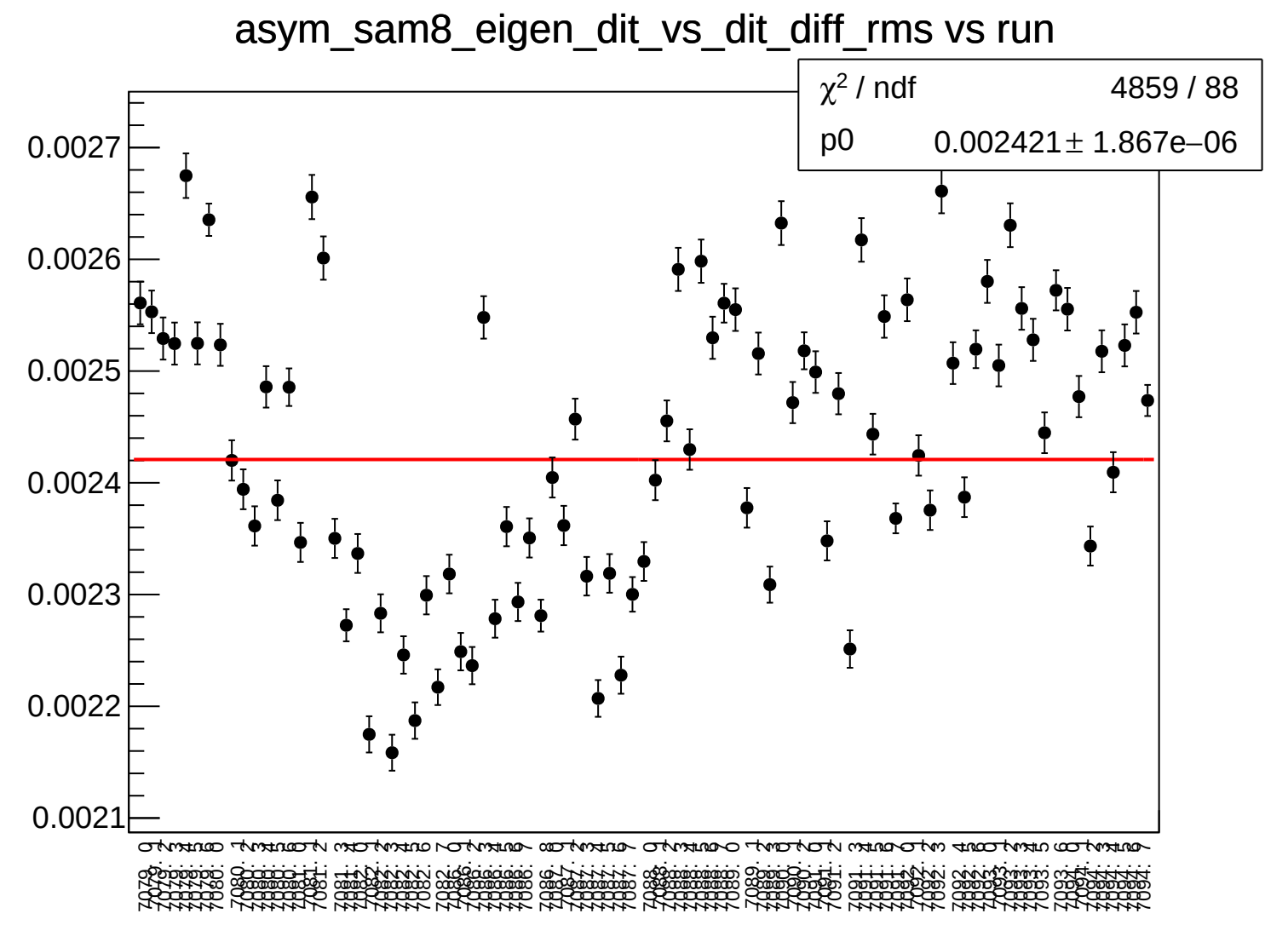

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.53 / 88
p0 −0.02806 ± 0.02937
pull
Entries 89
Mean −32
Std Dev 0

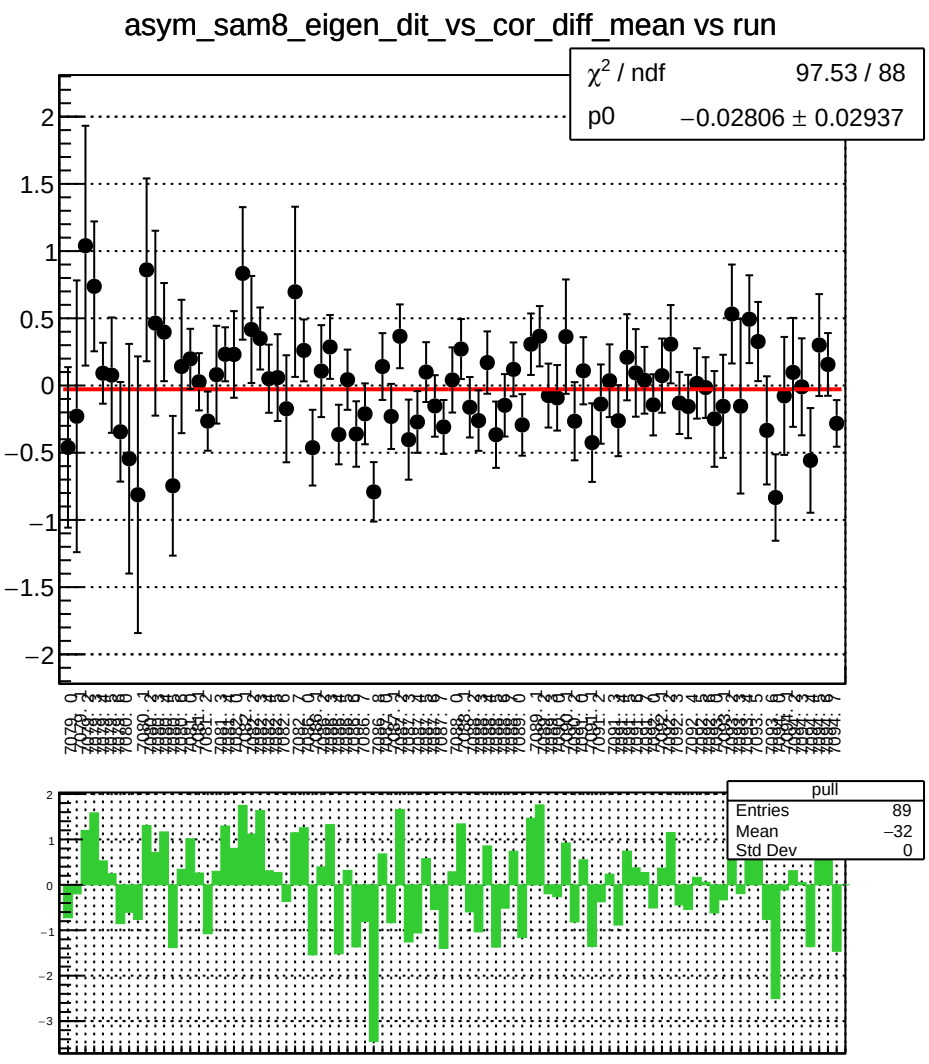

pull1D
Entries 89
Mean 0.04135
Std Dev 1.046

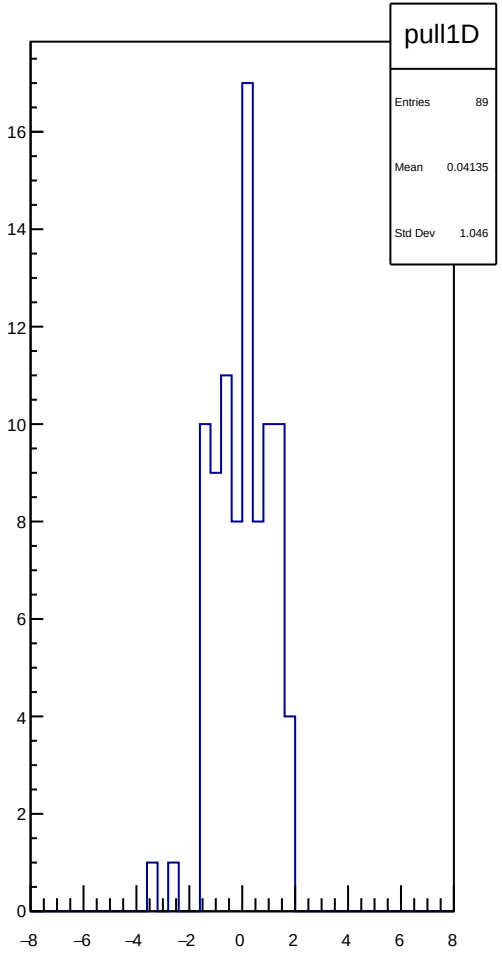

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.469e+05 / 88
p0 25.76 ± 0.02077
100
90
80
70
60
50
40
30
20

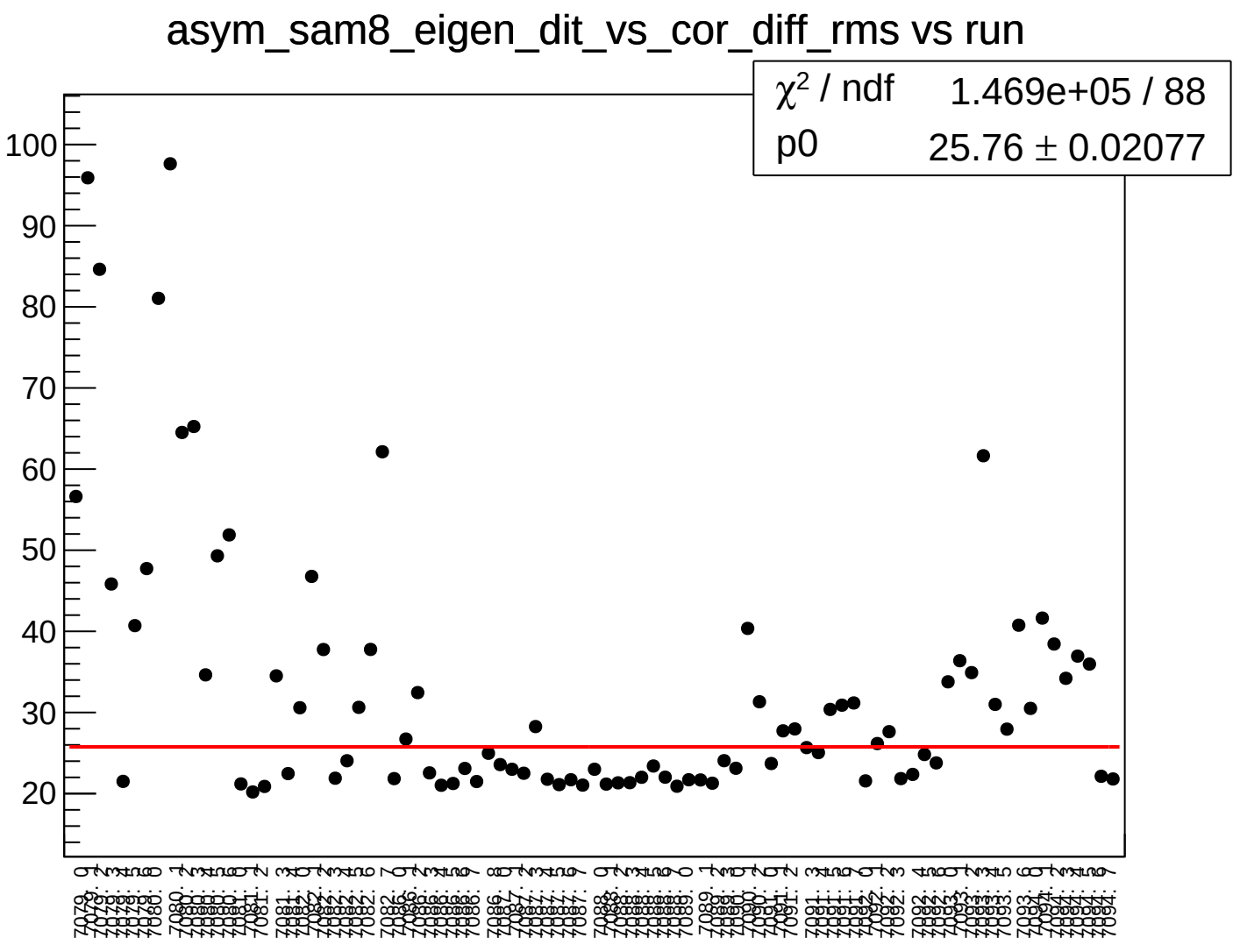

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.11 / 88
p0 3.408e−06 ± 2.64e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −65.61
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

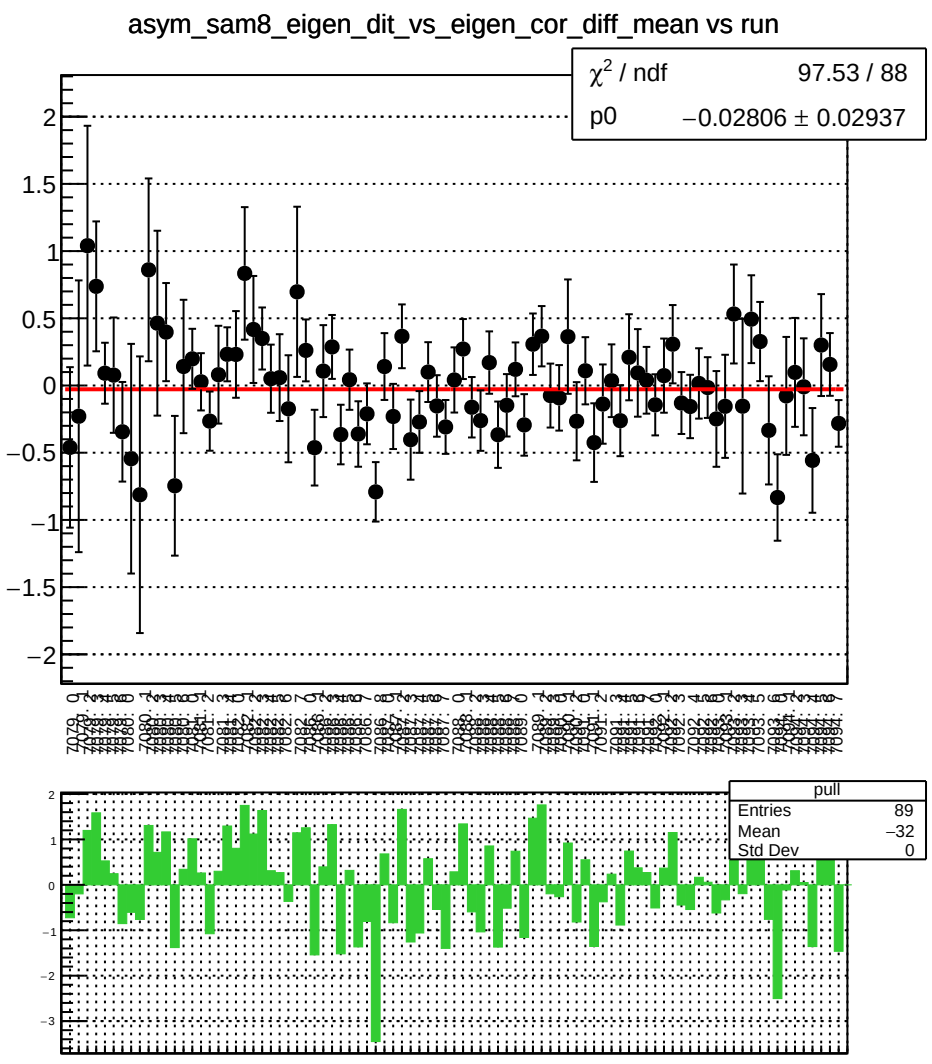

pull1D
Entries 89
Mean 0.003573
Std Dev 0.8938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

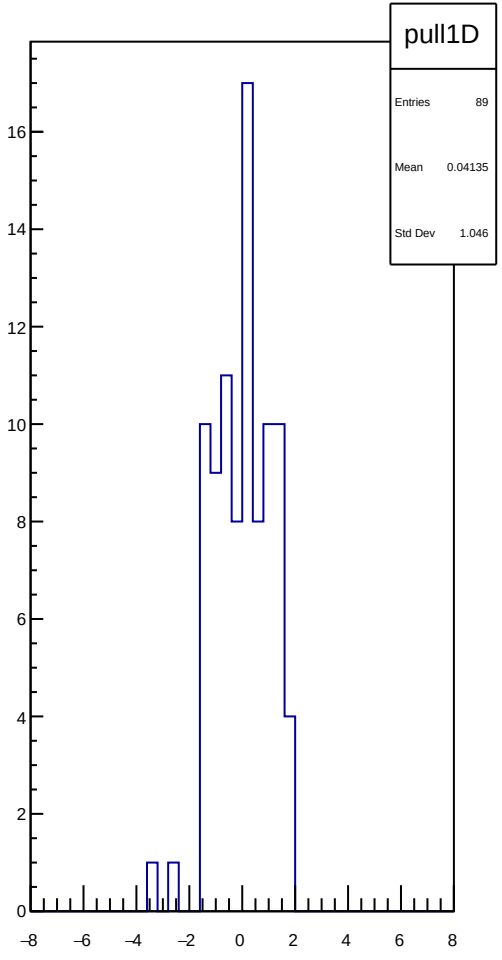

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4859 / 88
p0 0.002421 ± 1.867e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

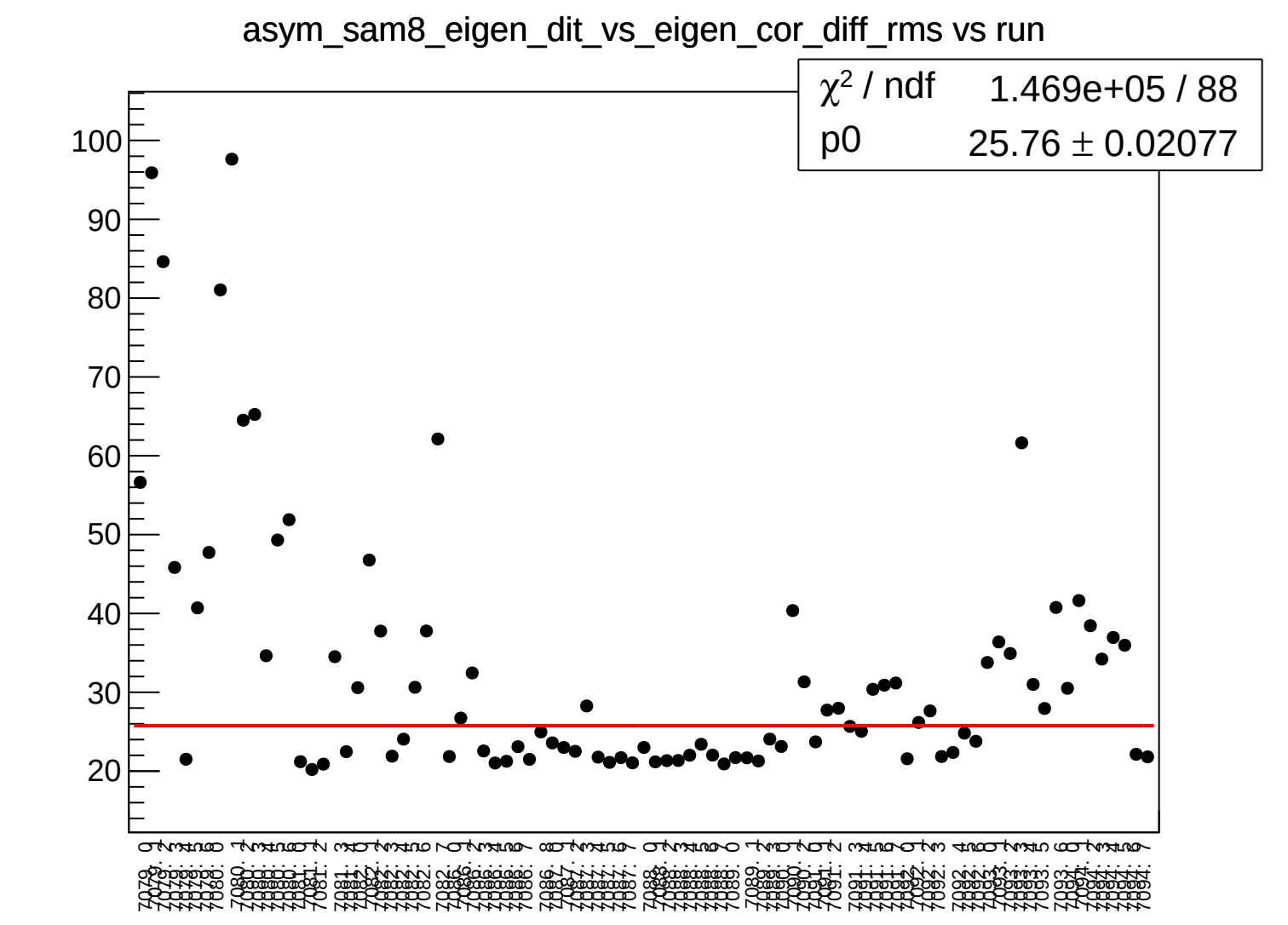

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.53 / 88
p0 −0.02806 ± 0.02937
pull
Entries 89
Mean −32
Std Dev 0

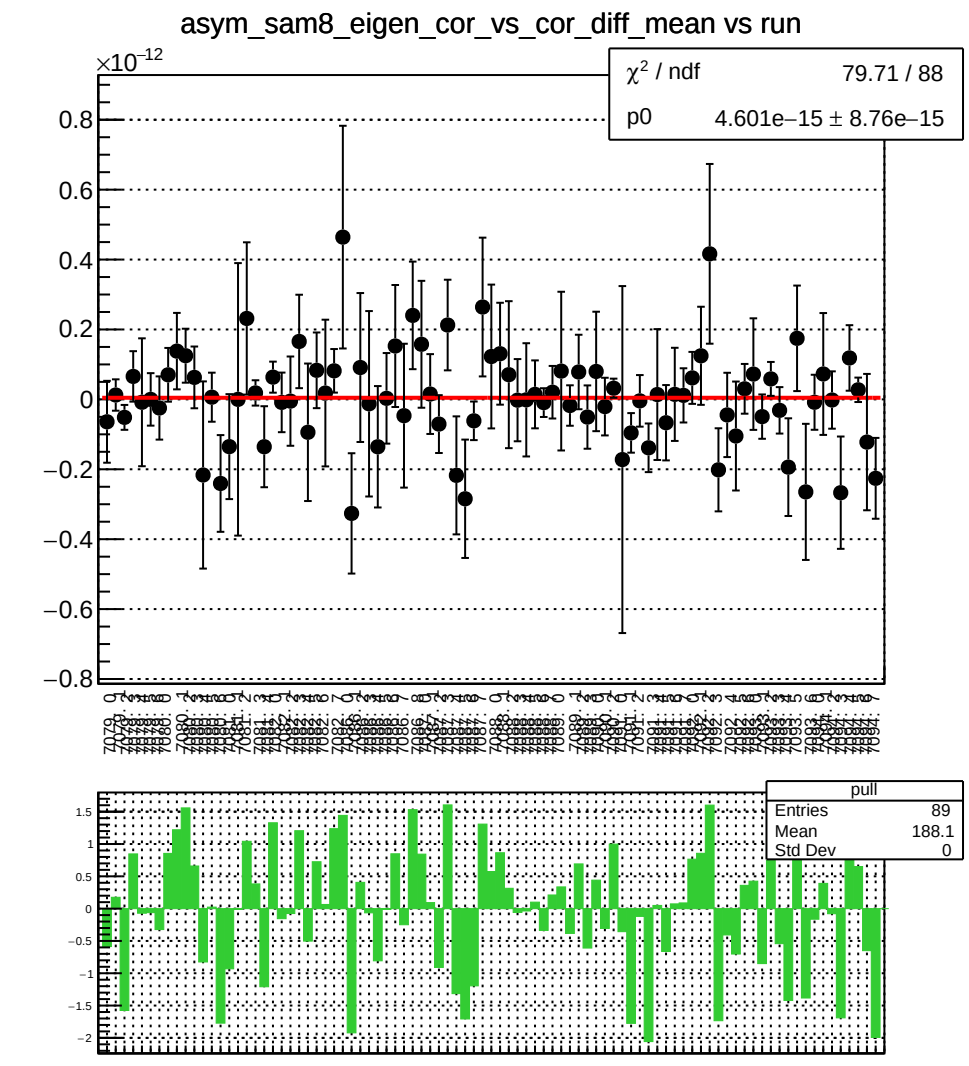

pull1D
Entries 89
Mean 0.04135
Std Dev 1.046

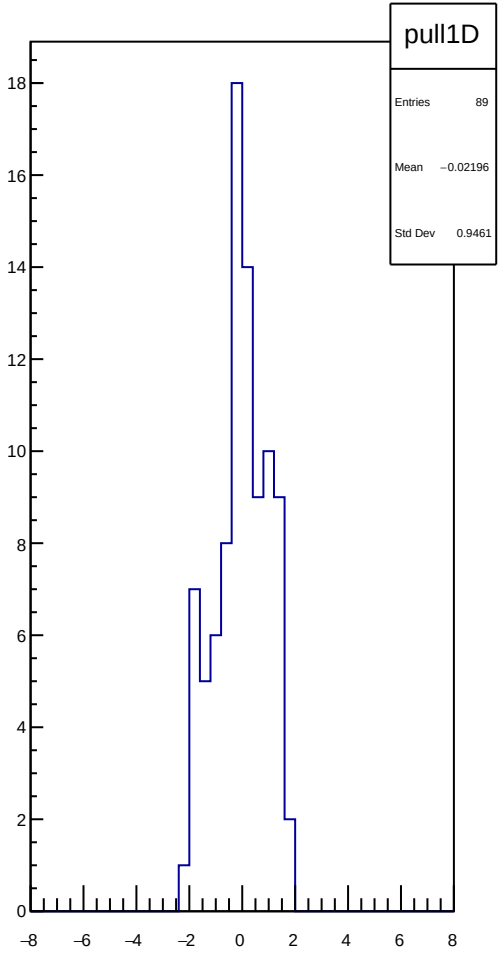

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.469e+05 / 88
p0 25.76 ± 0.02077
100
90
80
70
60
50
40
30
20

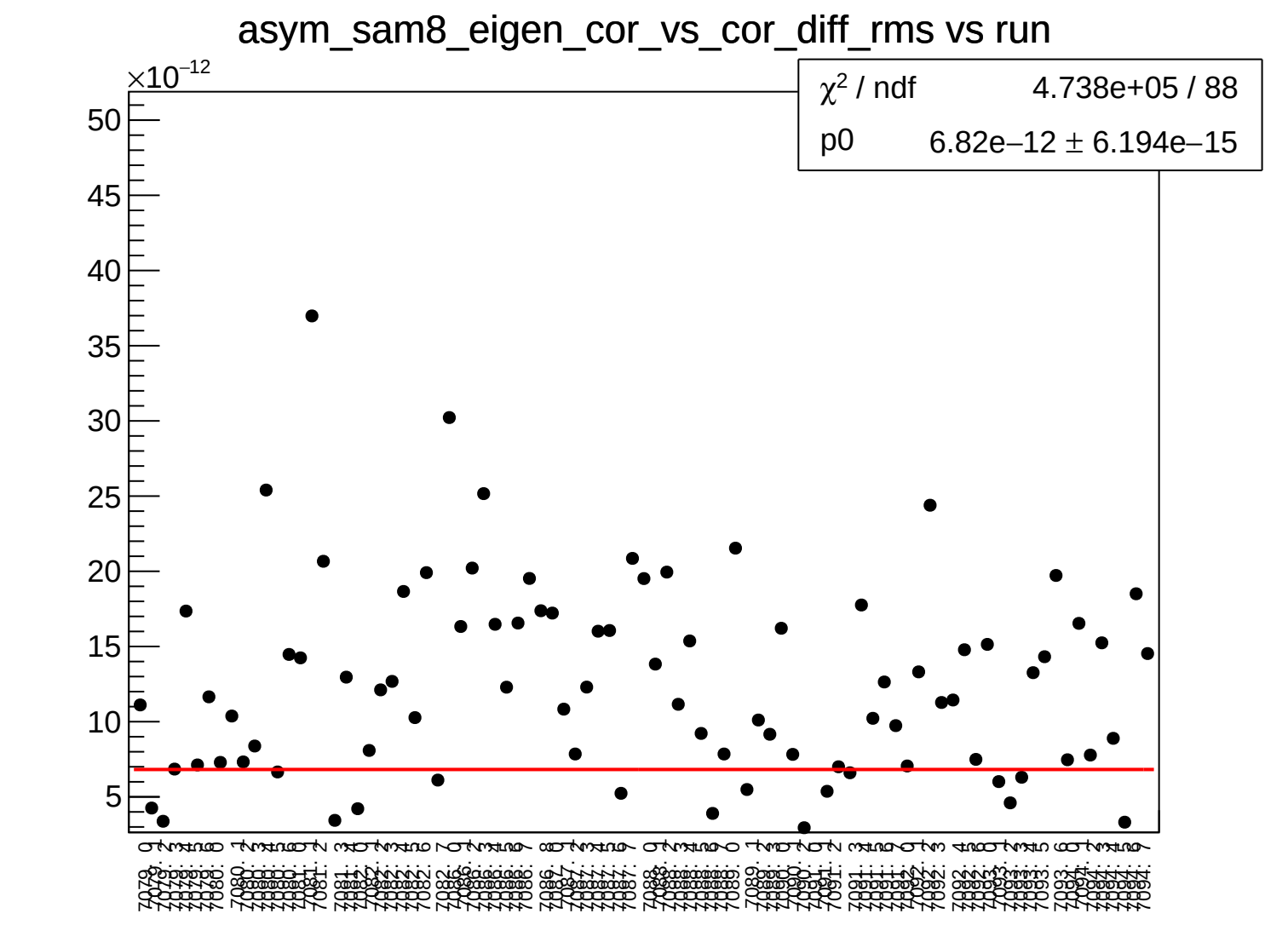

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.53 / 88
p0 −0.02806 ± 0.02937
pull
Entries 89
Mean −32
Std Dev 0

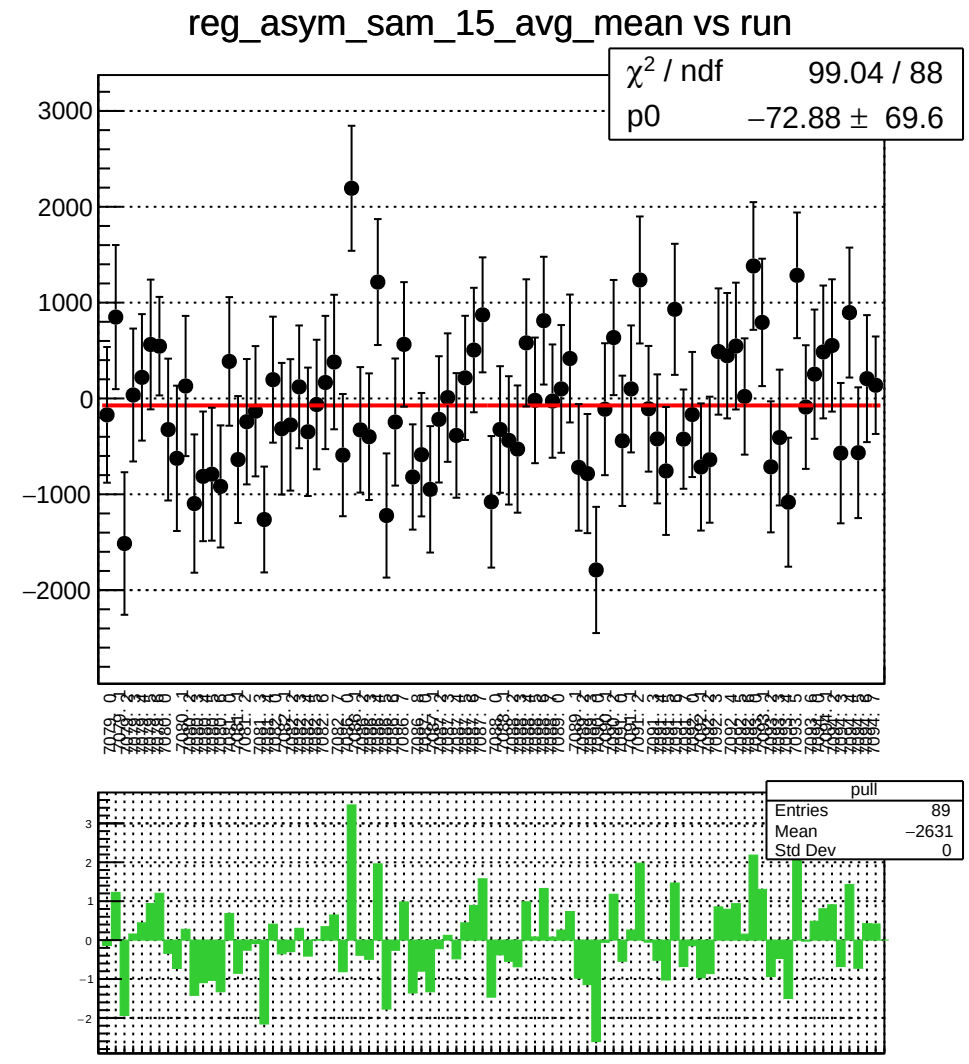

pull1D
Entries 89
Mean 0.04135
Std Dev 1.046

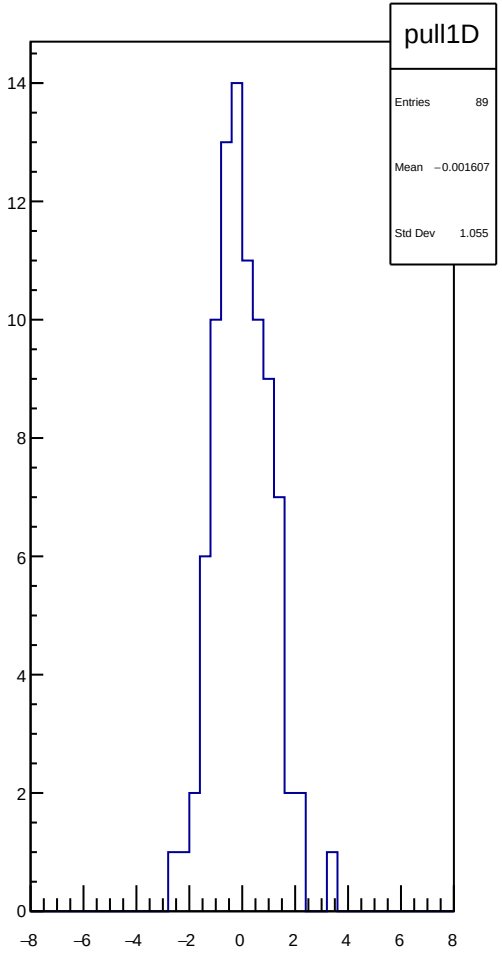

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.469e+05 / 88
p0 25.76 ± 0.02077
100
90
80
70
60
50
40
30
20

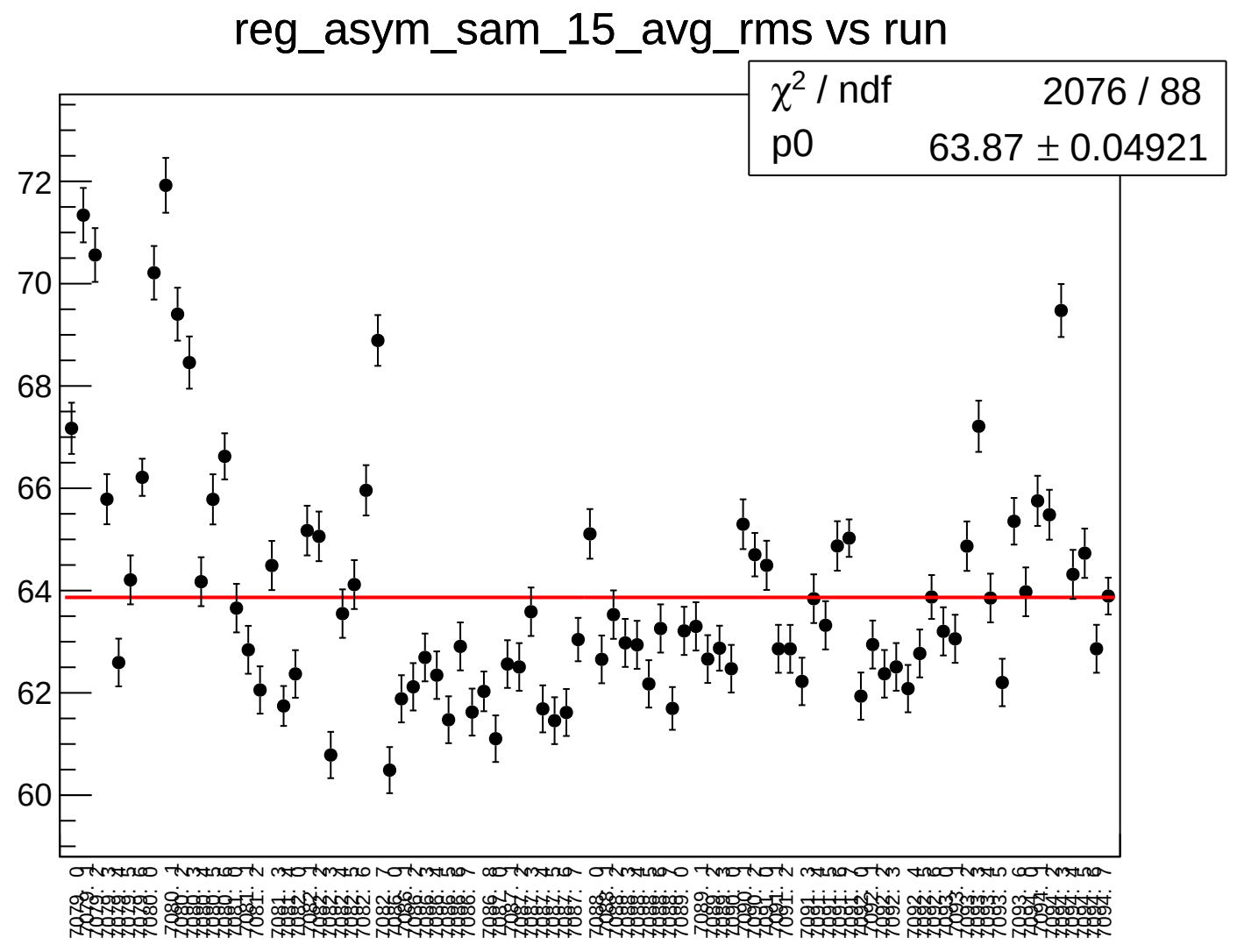

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.71 / 88
p0 4.601e−15 ± 8.76e−15
pull
Entries 89
Mean 188.1
Std Dev 0

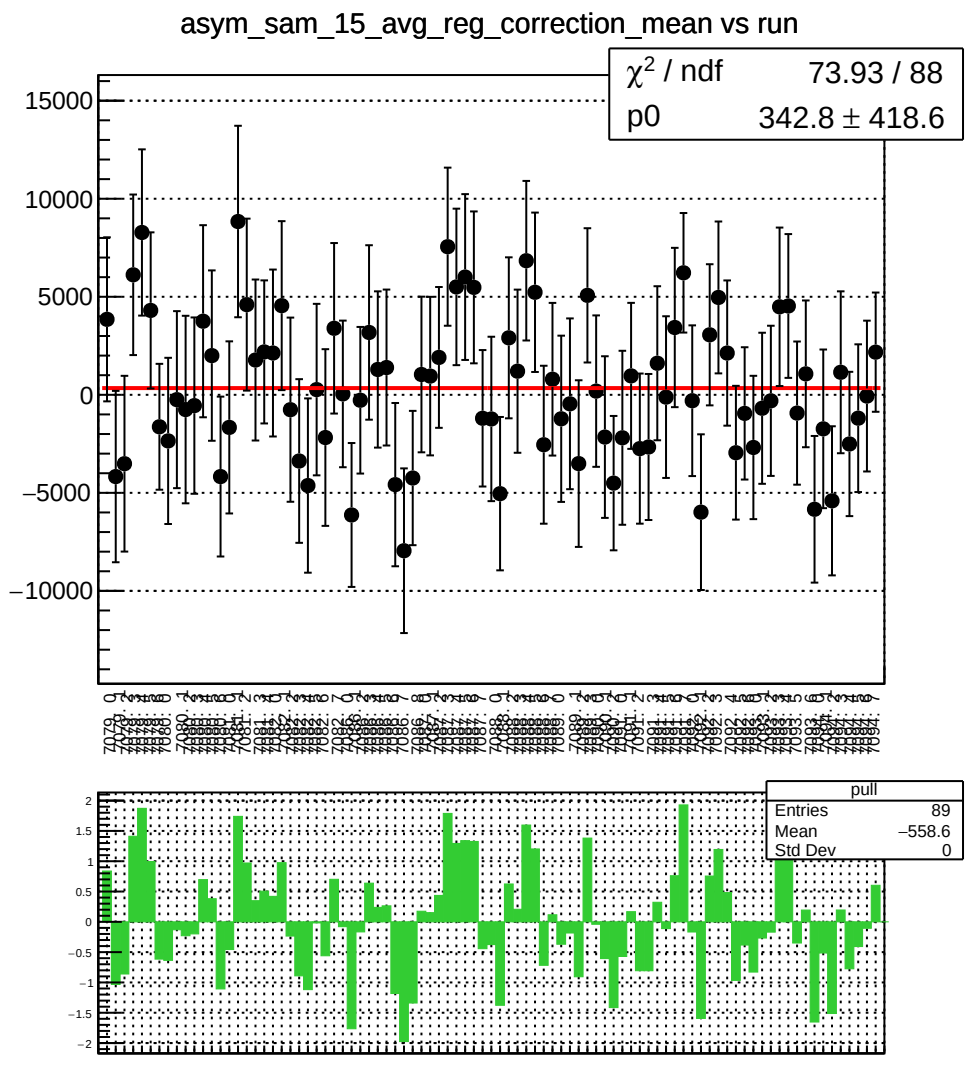

pull1D
Entries 89
Mean −0.02196
Std Dev 0.9461

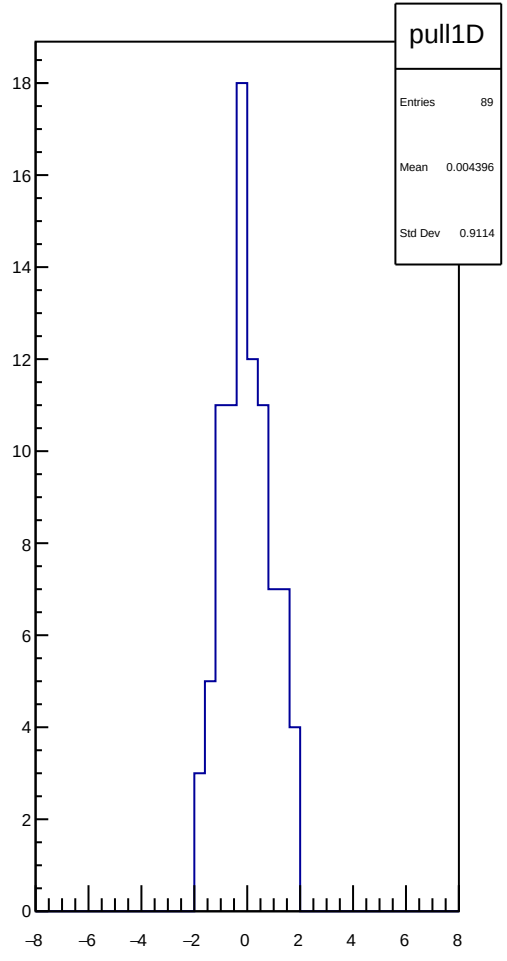

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.738e+05 / 88
p0 6.82e−12 ± 6.194e−15
50
45
40
35
30
25
20
15
10
5

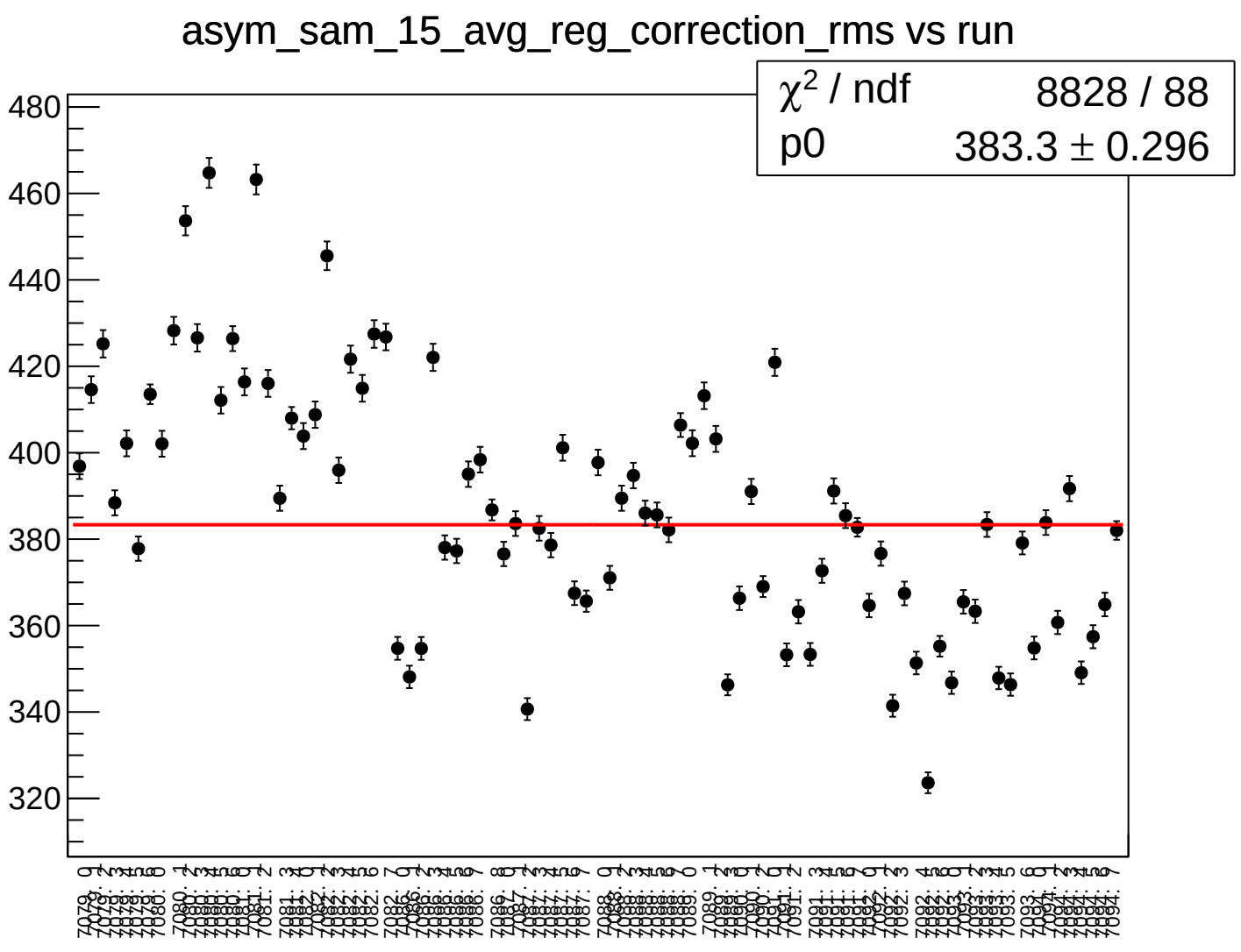

reg_asym_sam_15_avg_mean vs run
χ² / ndf 99.04 / 88
p0 −72.88 ± 69.6
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −2631
Std Dev 0
3
2
1
0
−1
−2

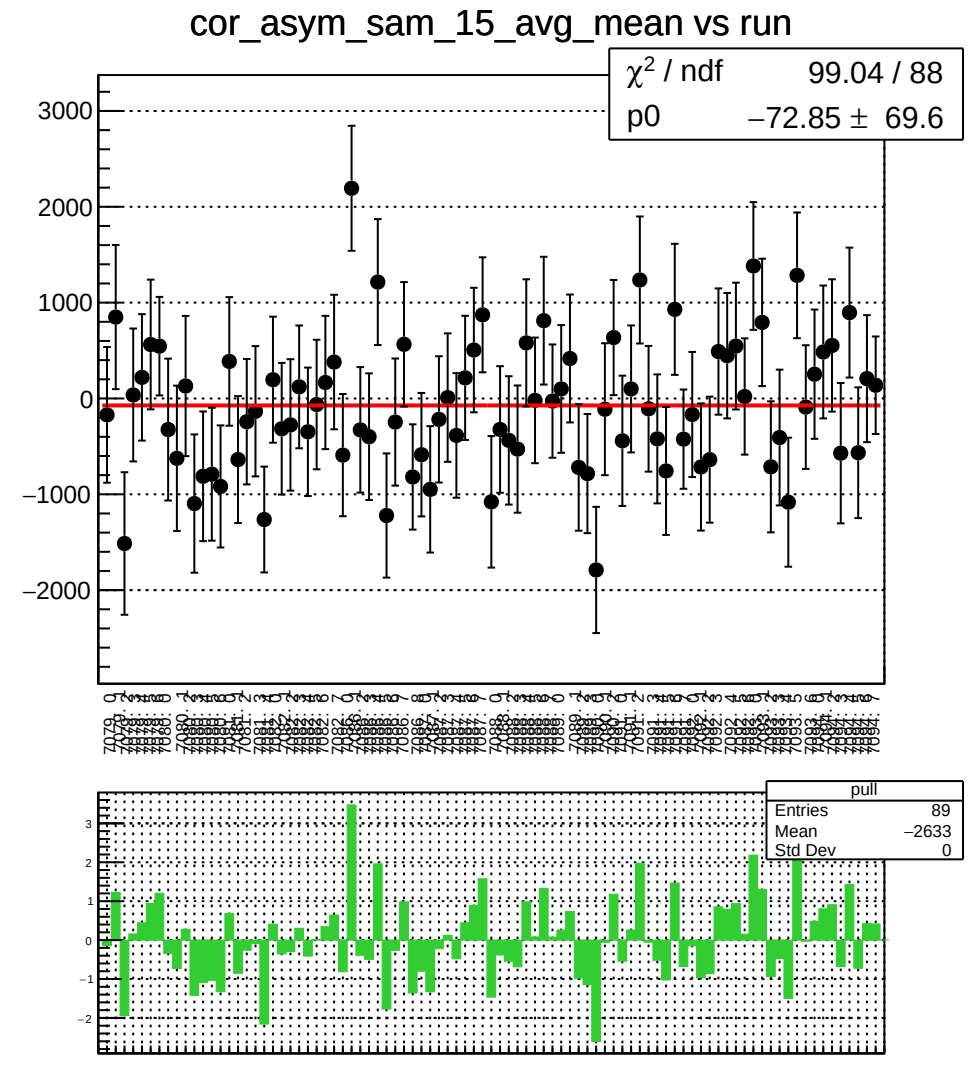

pull1D
Entries 89
Mean −0.001607
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

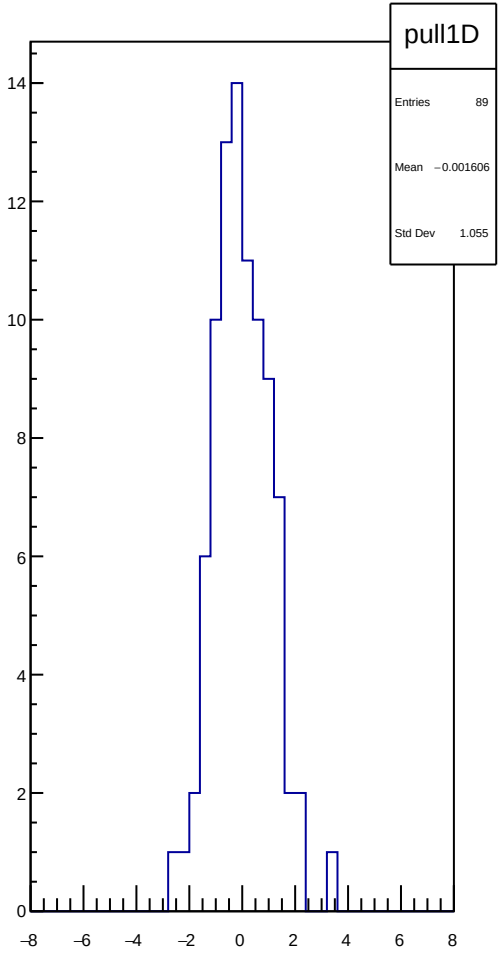

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2076 / 88
p0 63.87 ± 0.04921
72
70
68
66
64
62
60

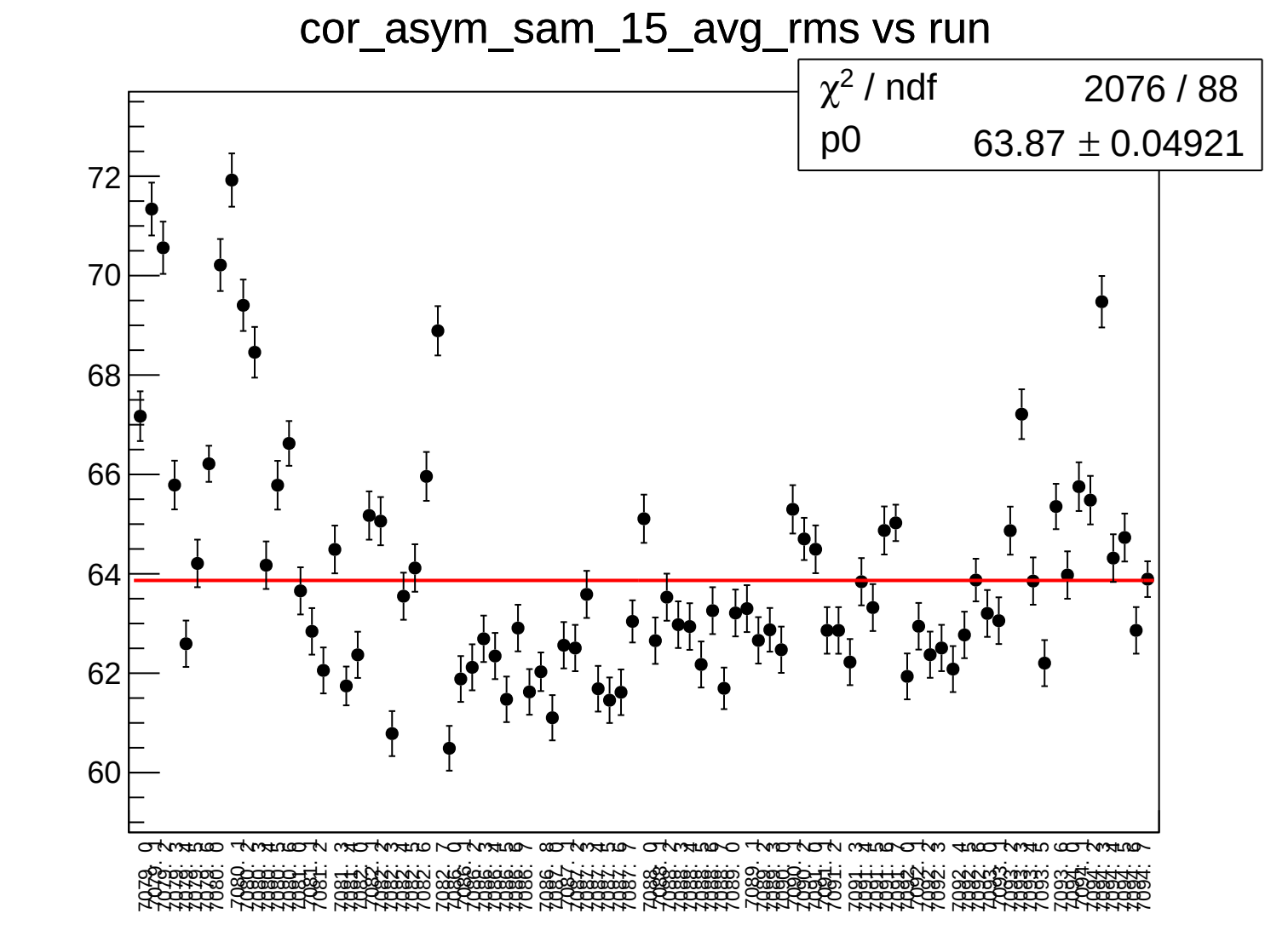

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 73.93 / 88
p0 342.8 ± 418.6
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −558.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

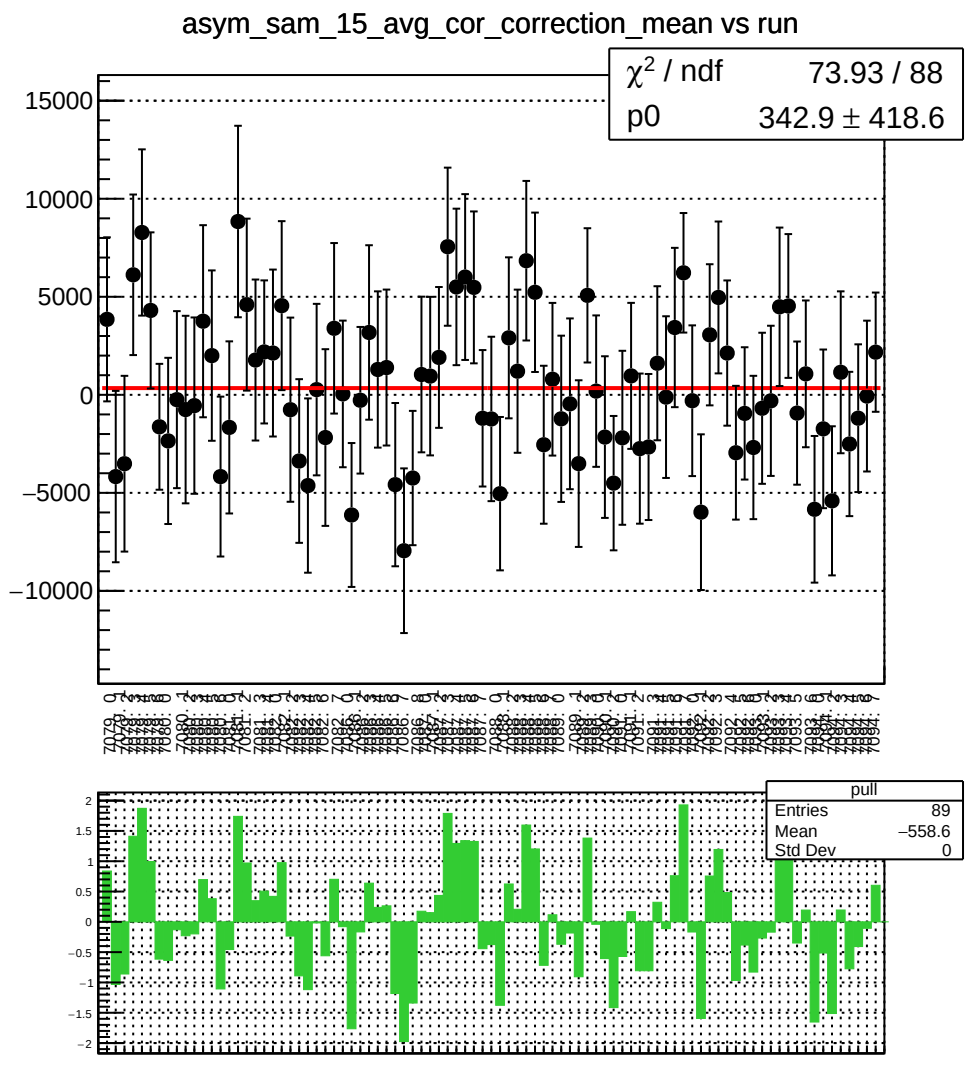

pull1D
Entries 89
Mean 0.004396
Std Dev 0.9114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

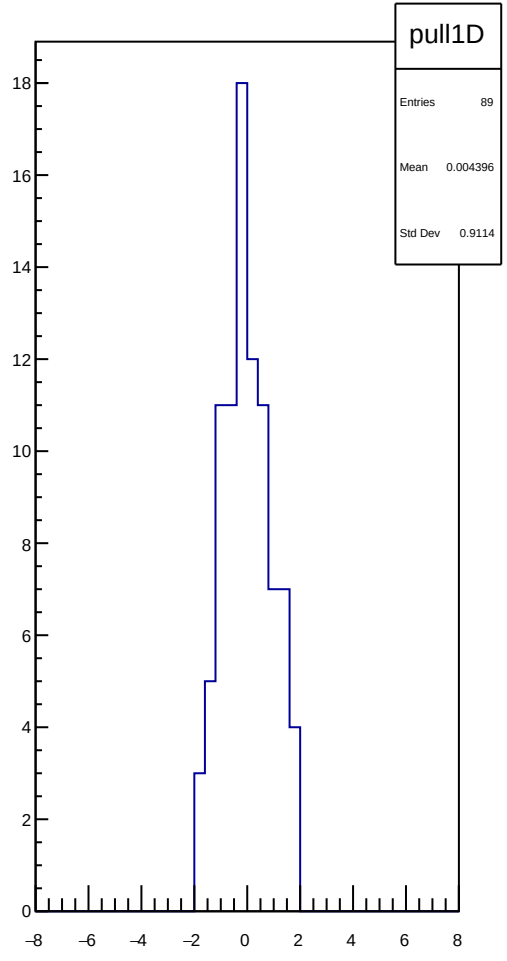

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 8828 / 88
p0 383.3 ± 0.296
480
460
440
420
400
380
360
340
320

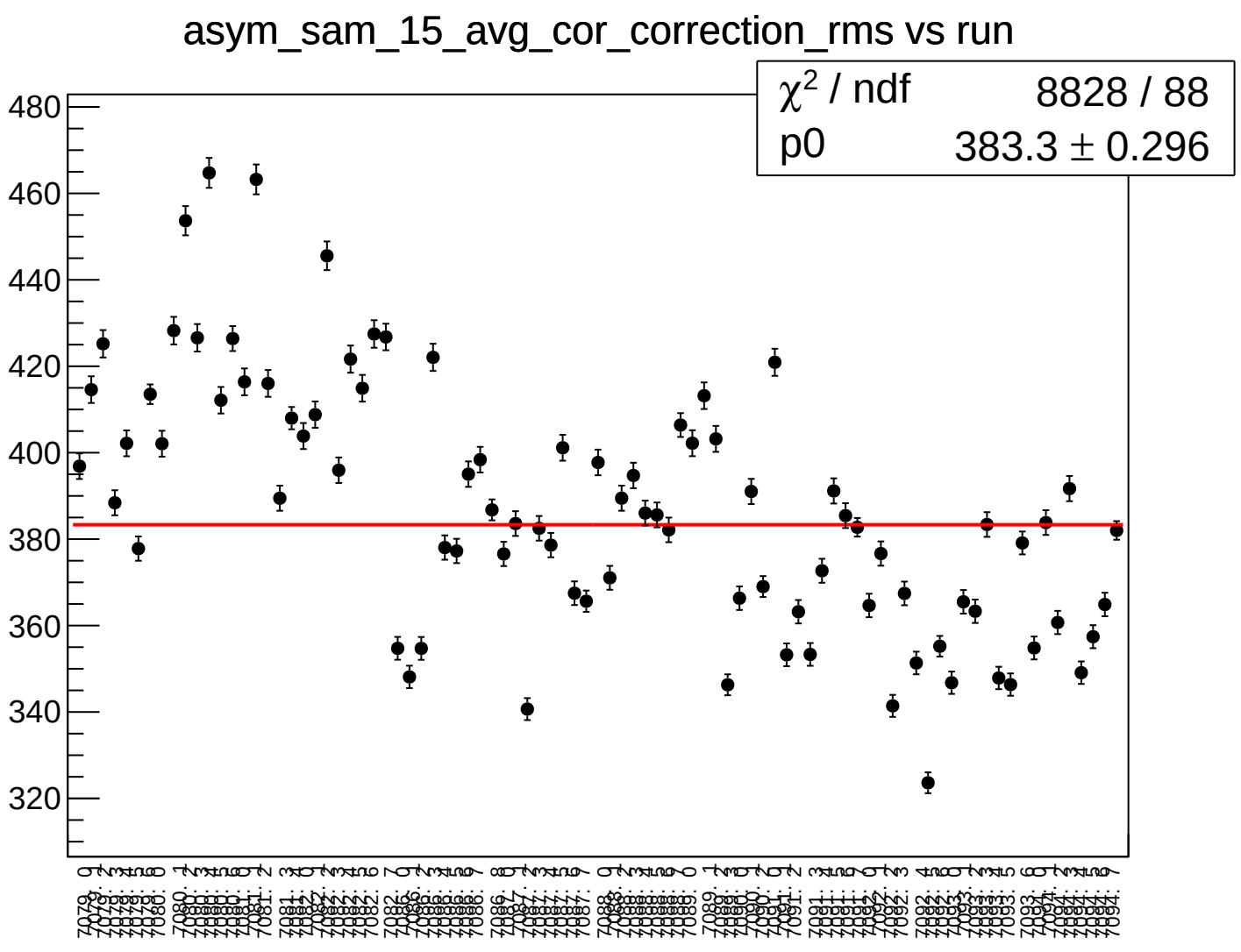

cor_asym_sam_15_avg_mean vs run
χ² / ndf 99.04 / 88
p0 −72.85 ± 69.6
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −2633
Std Dev 0
3
2
1
0
−1
−2

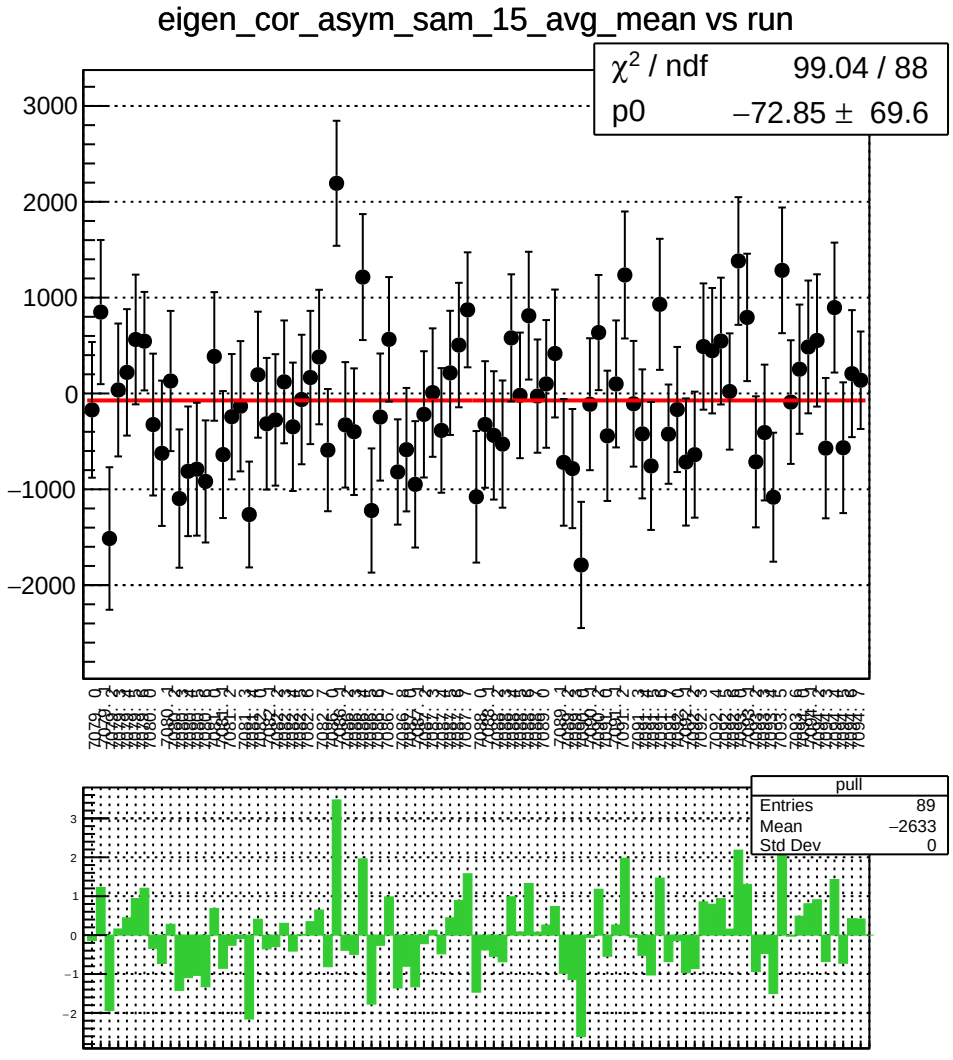

pull1D
Entries 89
Mean −0.001606
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

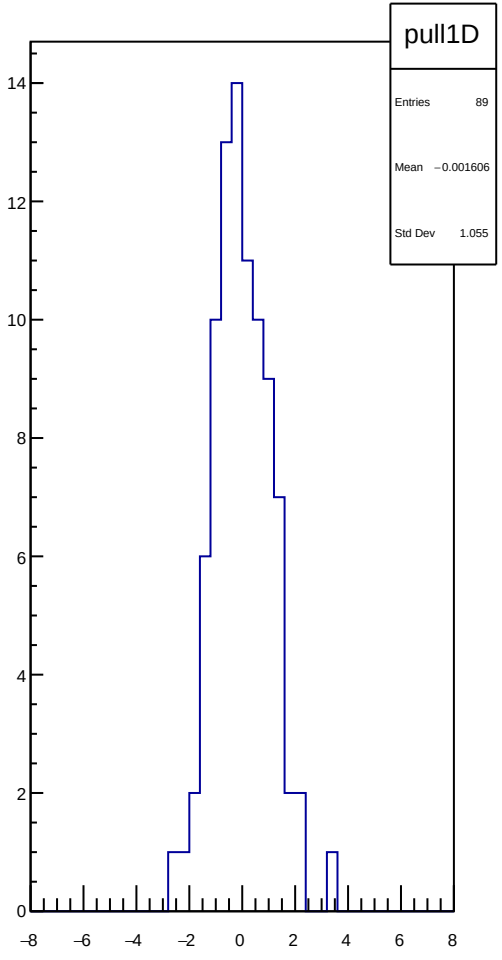

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 2076 / 88
p0 63.87 ± 0.04921
72
70
68
66
64
62
60

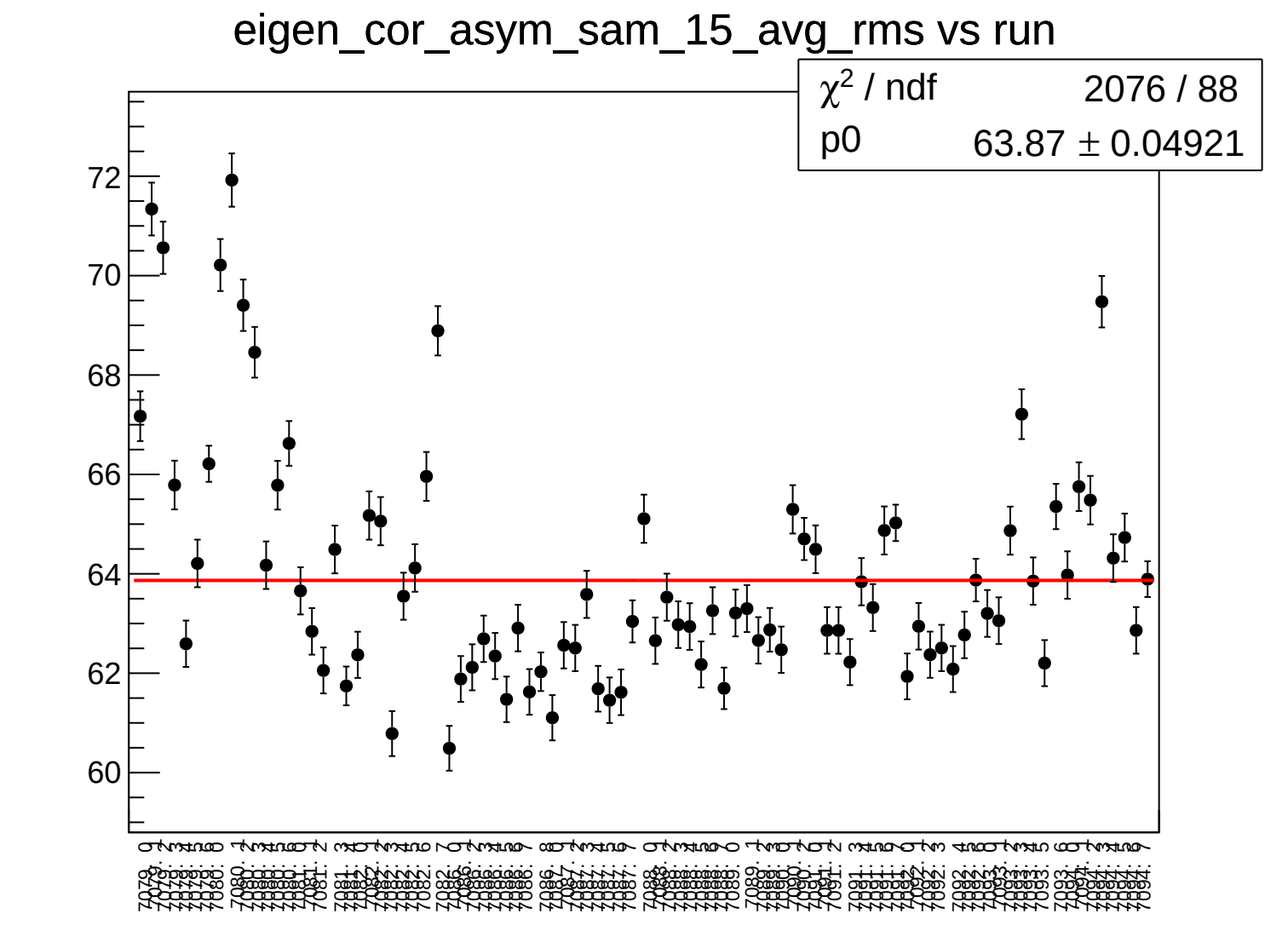

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 73.93 / 88
p0 342.9 ± 418.6
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −558.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

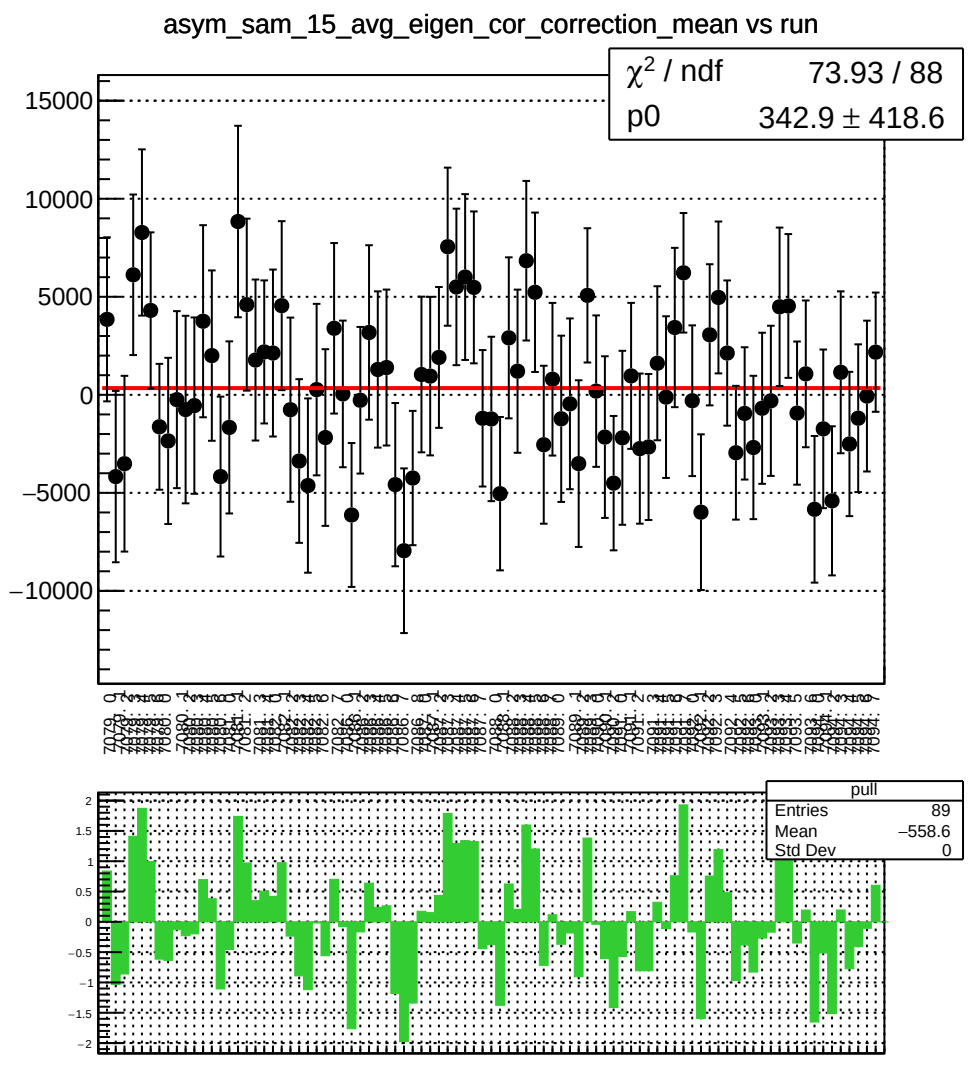

pull1D
Entries 89
Mean 0.004396
Std Dev 0.9114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

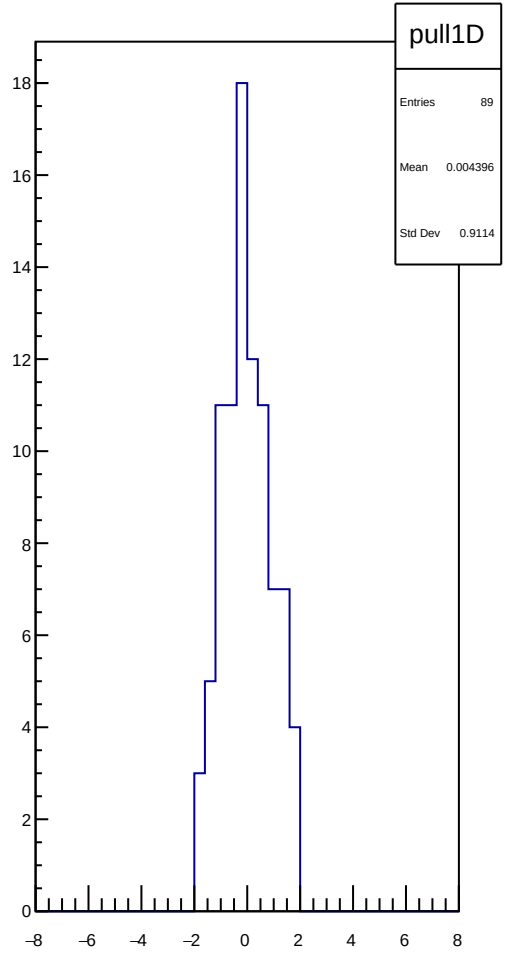

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 8828 / 88
p0 383.3 ± 0.296
480
460
440
420
400
380
360
340
320

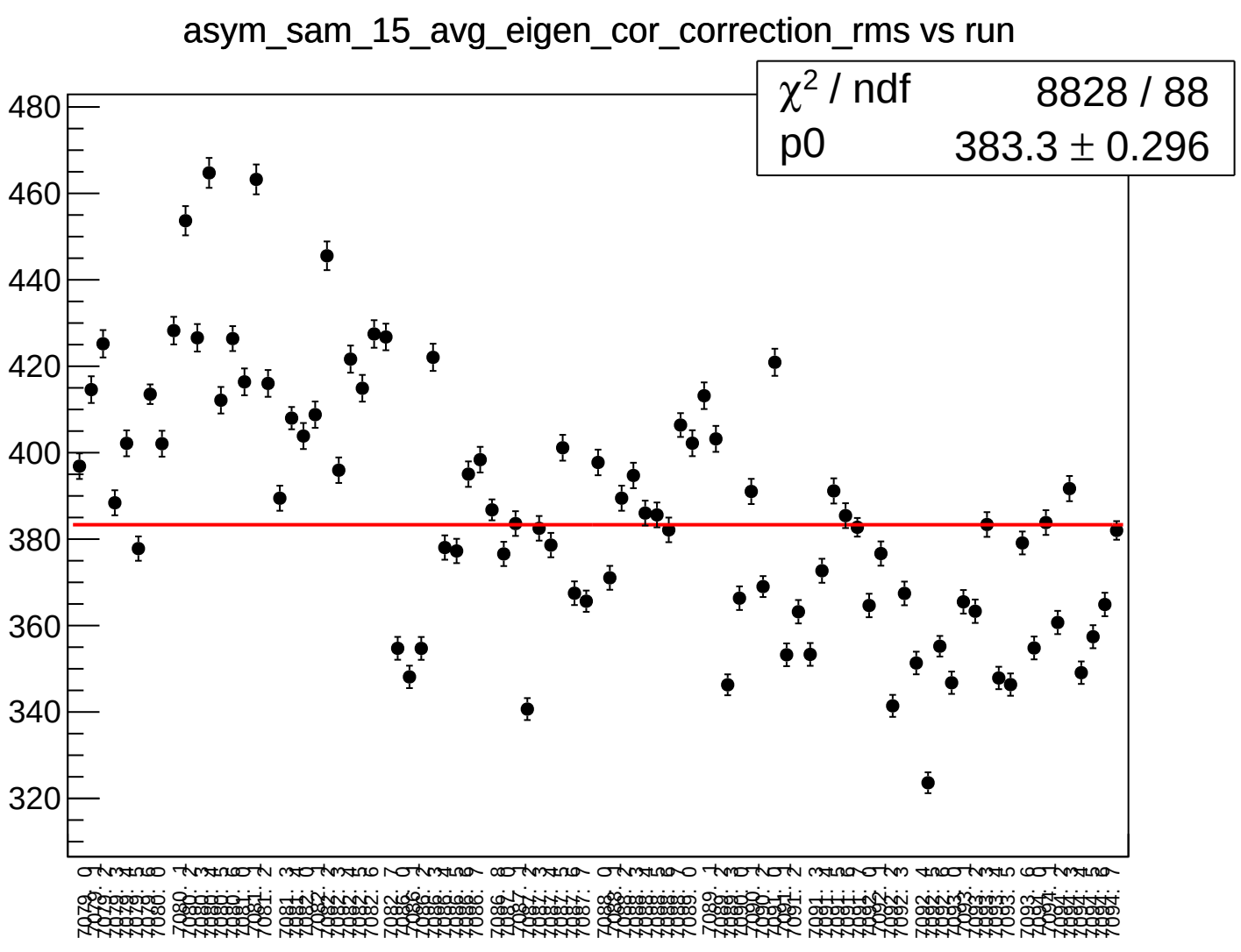

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 99.04 / 88
p0 −72.85 ± 69.6
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −2633
Std Dev 0
3
2
1
0
−1

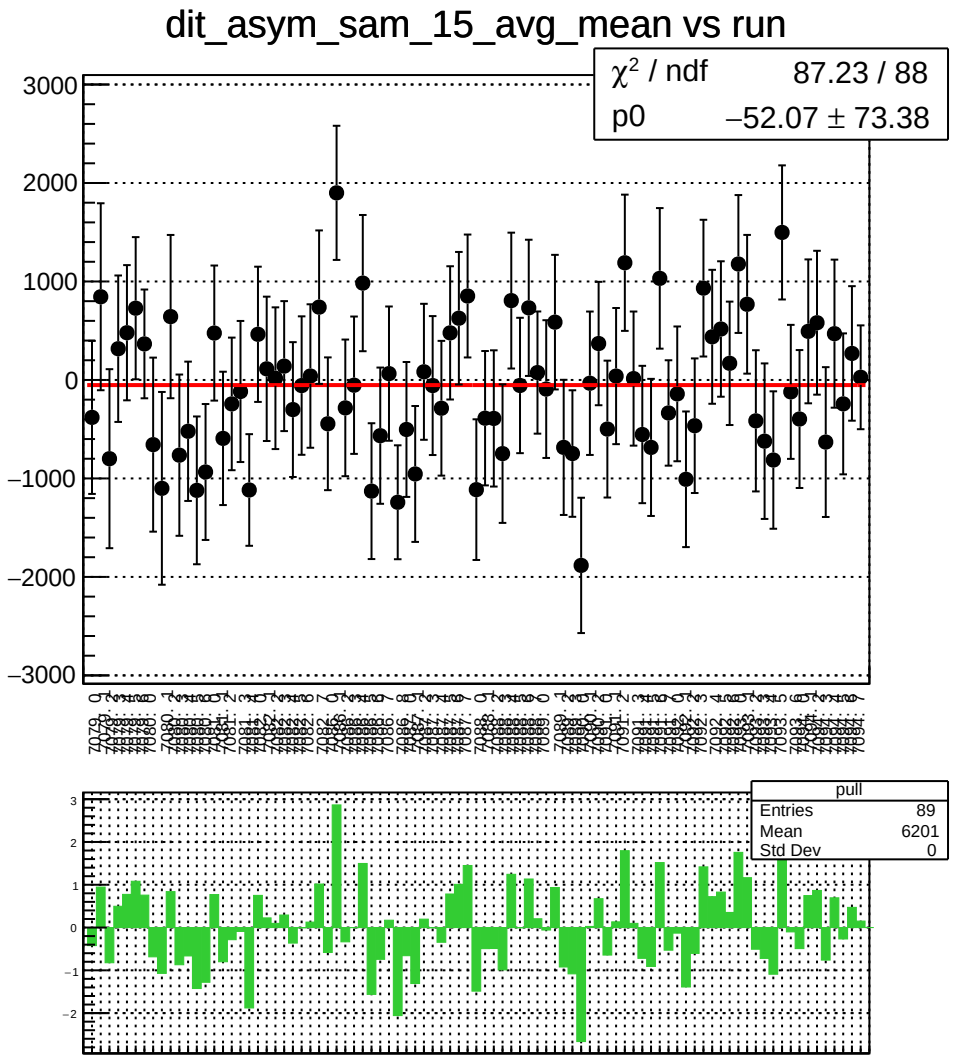

pull1D
Entries 89
Mean −0.001606
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

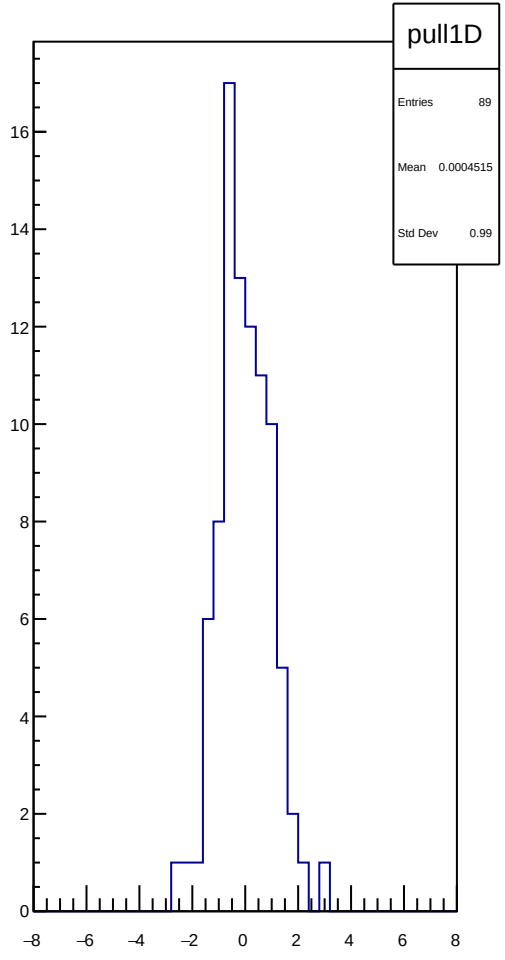

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 2076 / 88
p0 63.87 ± 0.04921
72
70
68
66
64
62
60

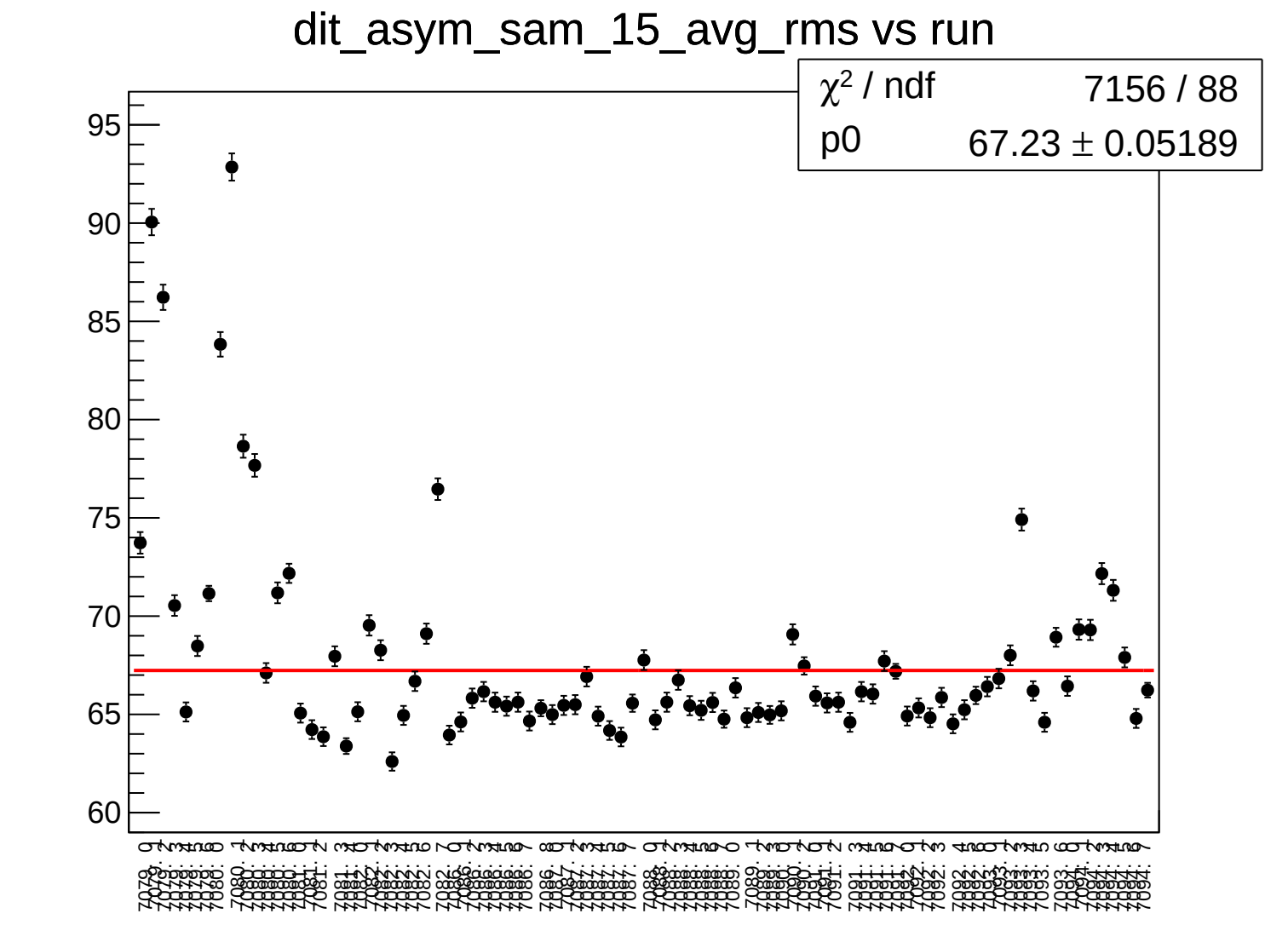

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.93 / 88
p0 342.9 ± 418.6
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −558.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

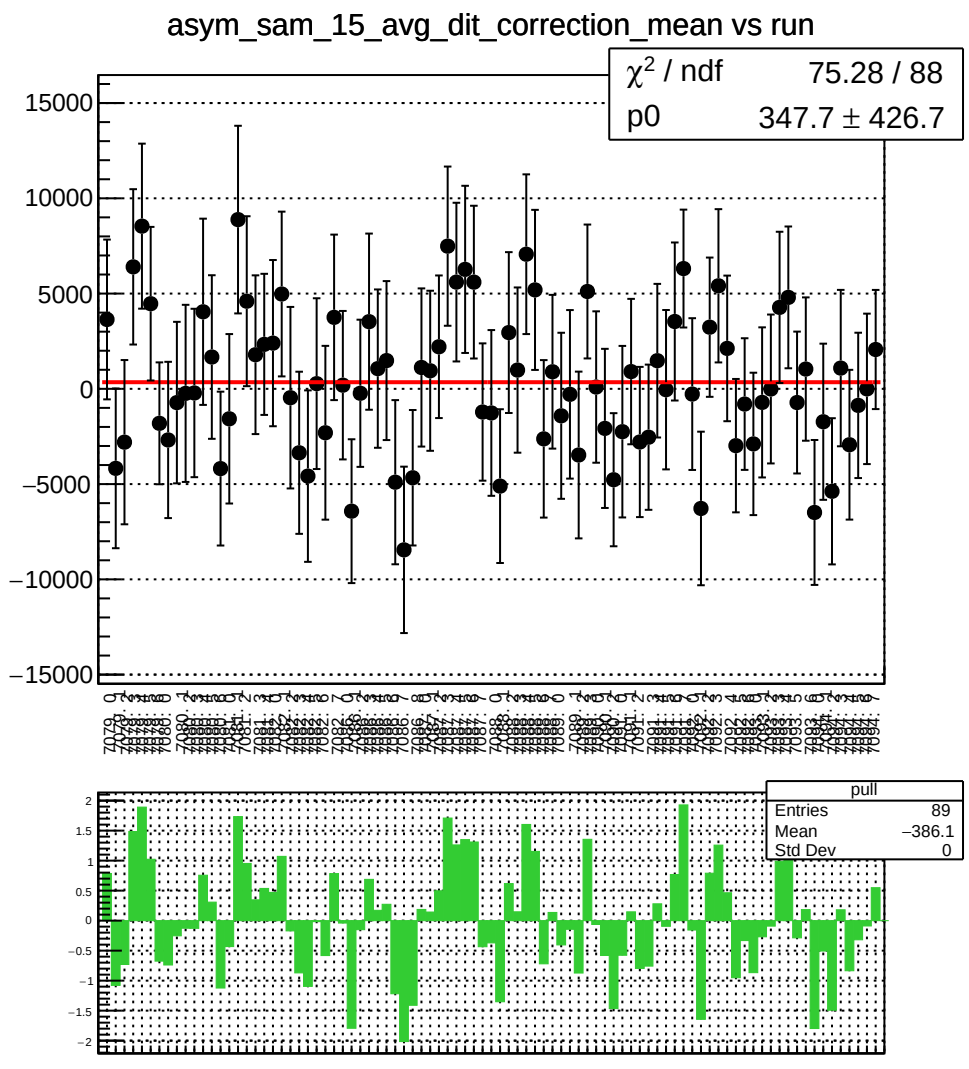

pull1D
Entries 89
Mean 0.004396
Std Dev 0.9114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

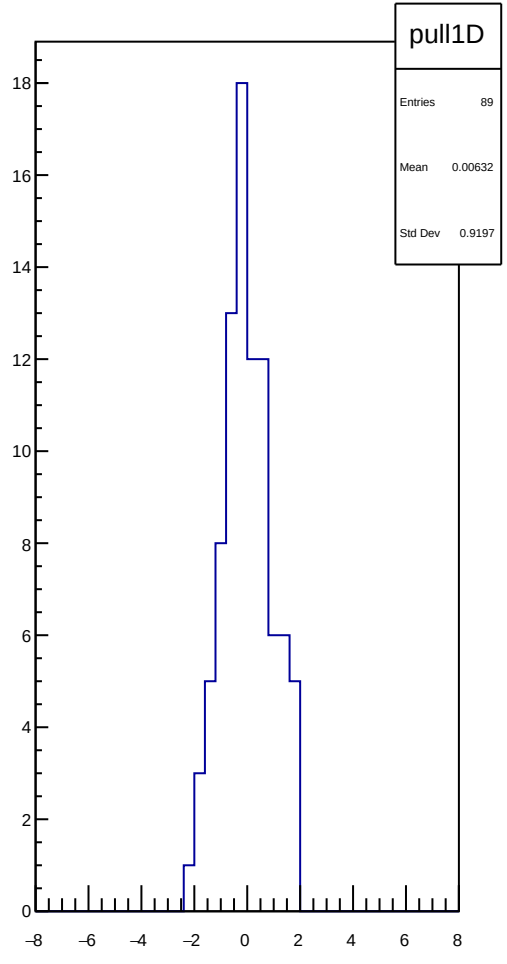

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 8828 / 88
p0 383.3 ± 0.296
480
460
440
420
400
380
360
340
320

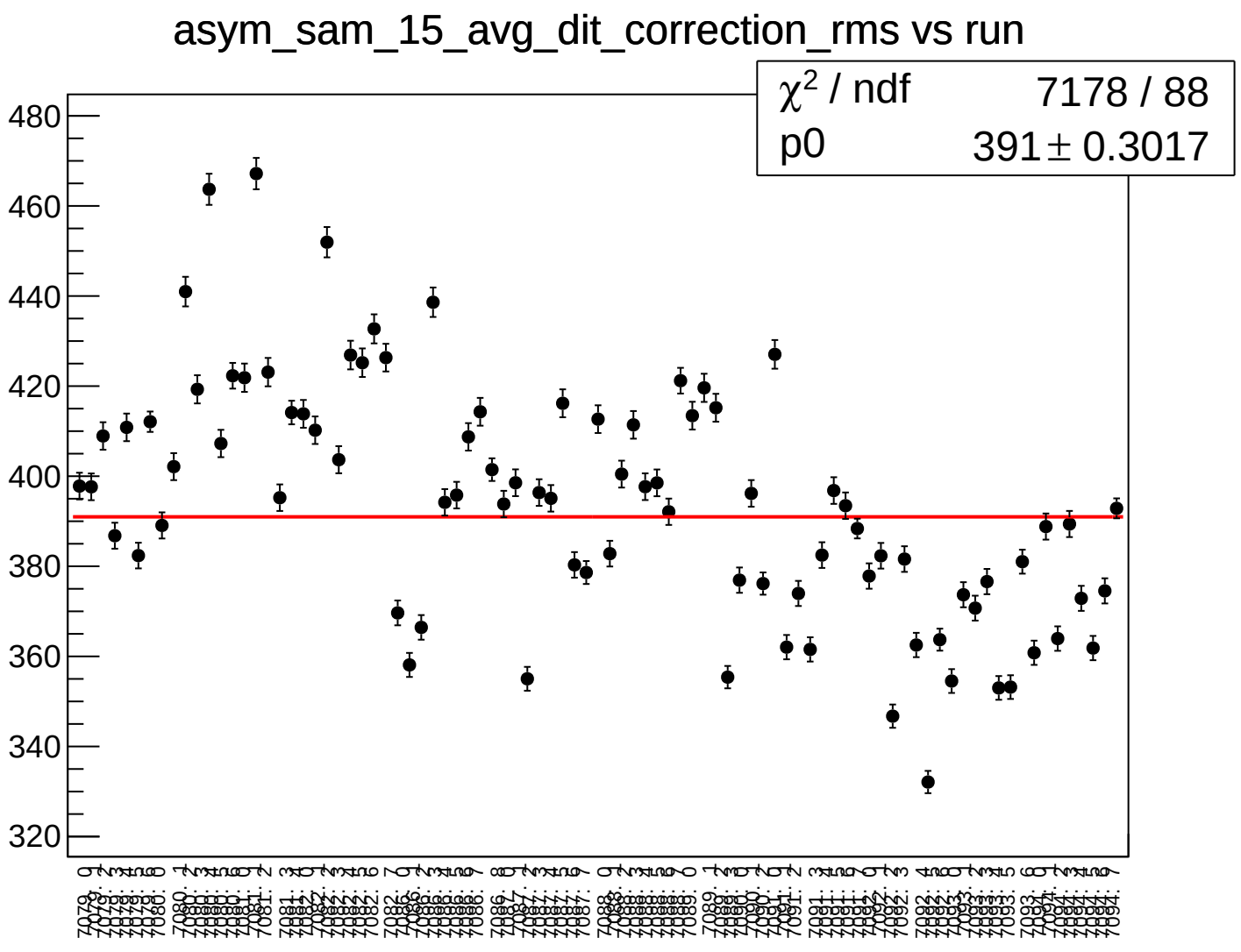

dit_asym_sam_15_avg_mean vs run
χ² / ndf 87.23 / 88
p0 −52.07 ± 73.38
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 6201
Std Dev 0
3
2
1
0
−1
−2

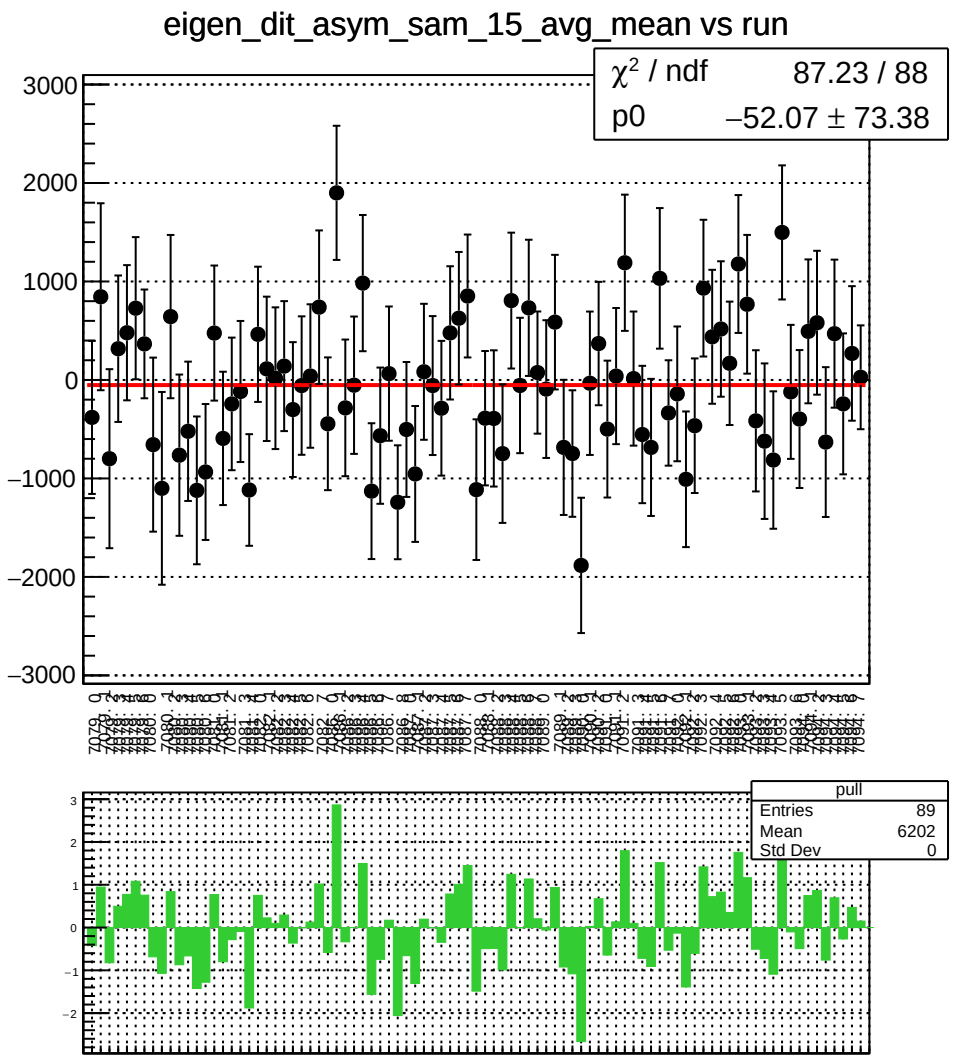

pull1D
Entries 89
Mean 0.0004515
Std Dev 0.99
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

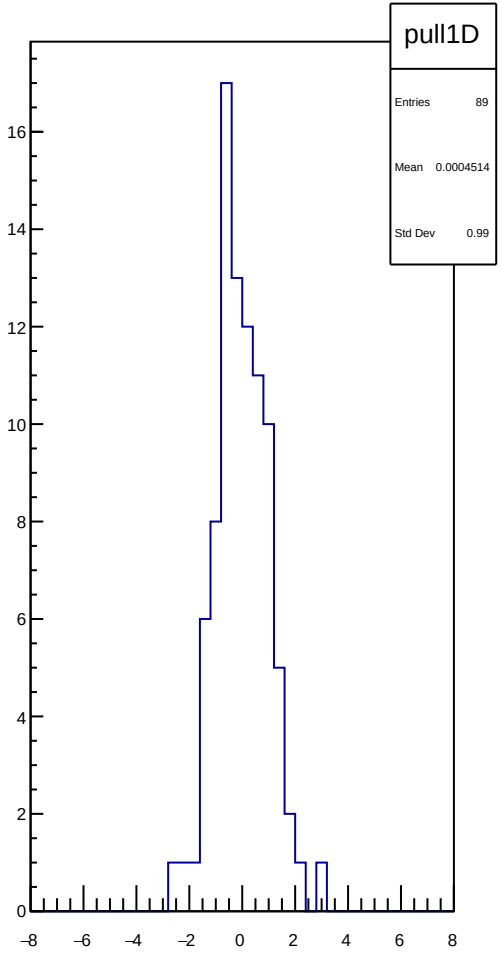

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 7156 / 88
p0 67.23 ± 0.05189
95
90
85
80
75
70
65
60

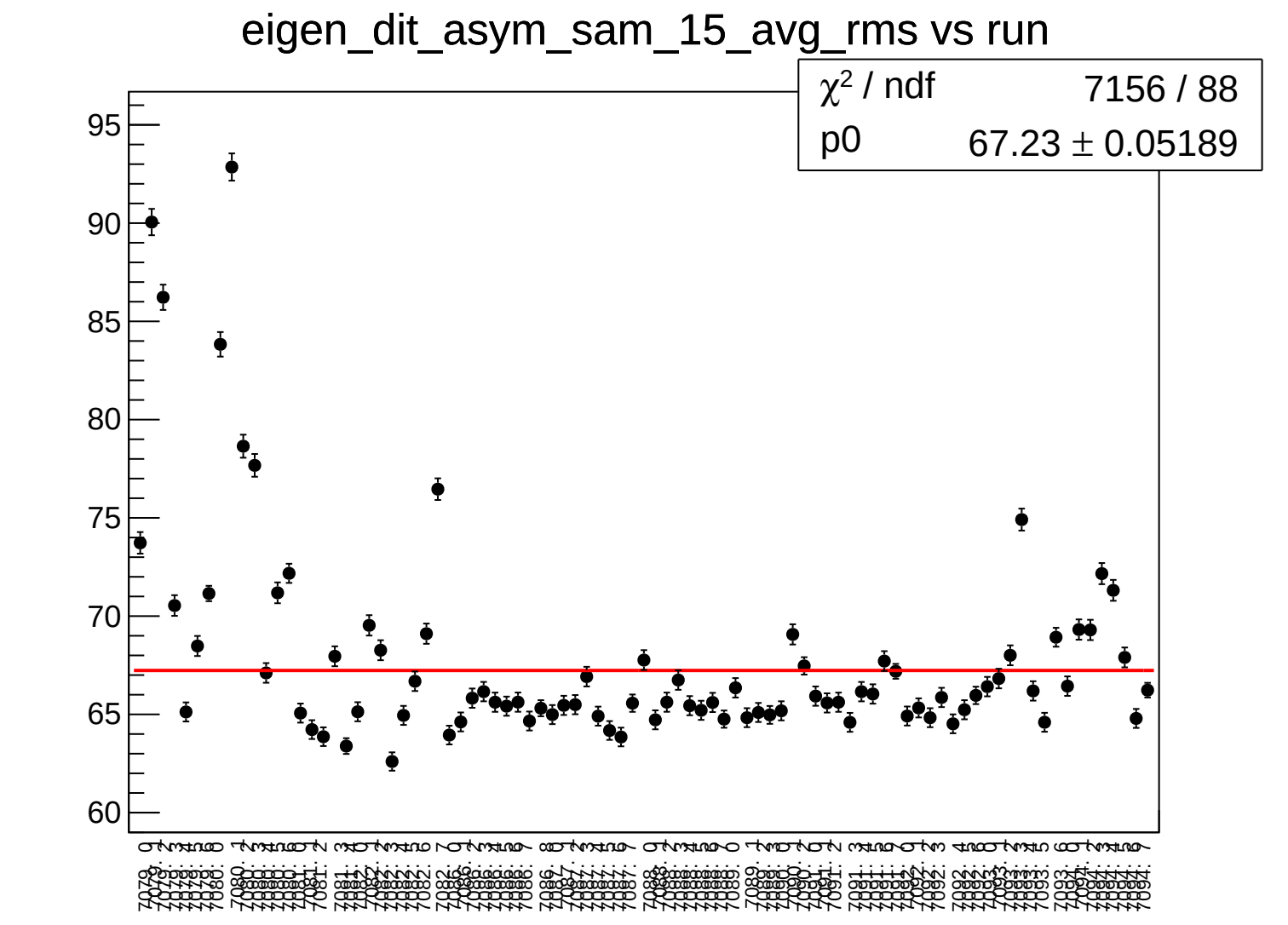

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 75.28 / 88
p0 347.7 ± 426.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −386.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

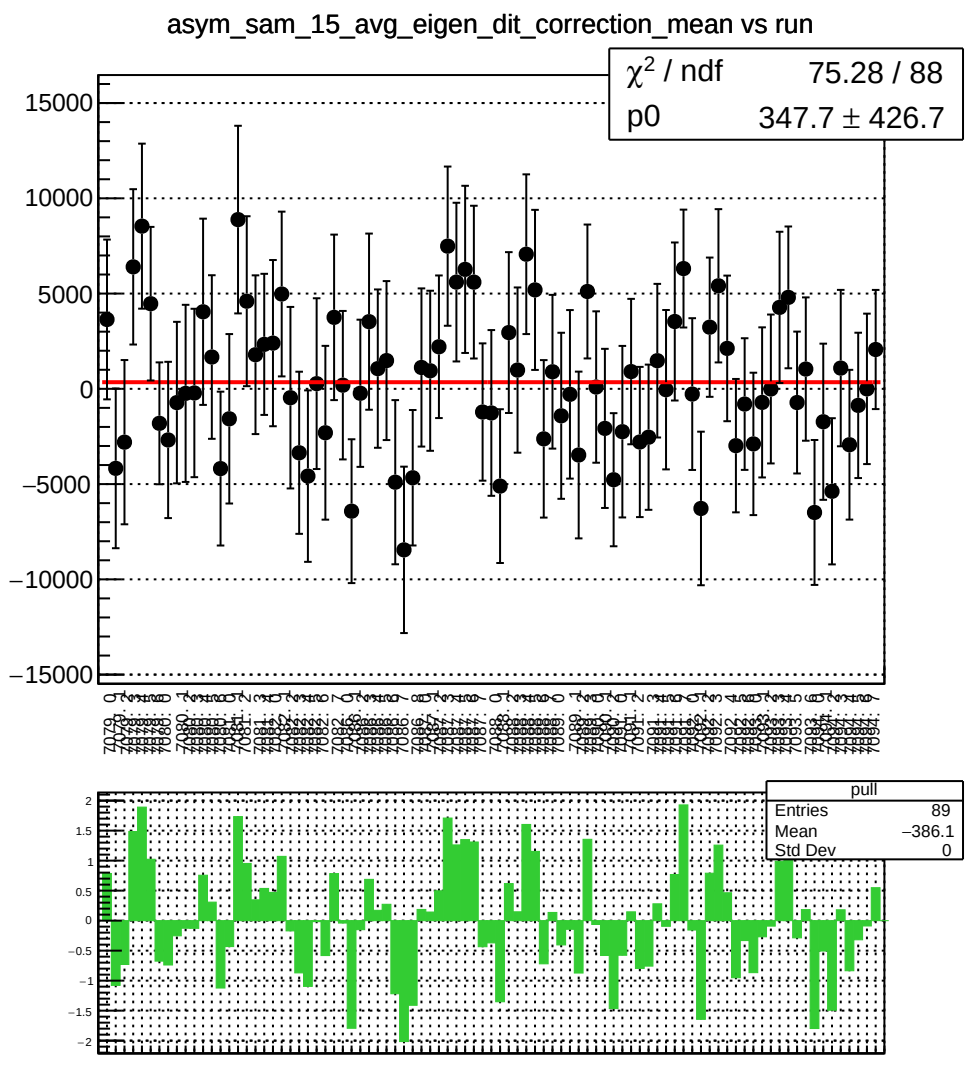

pull1D
Entries 89
Mean 0.00632
Std Dev 0.9197
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

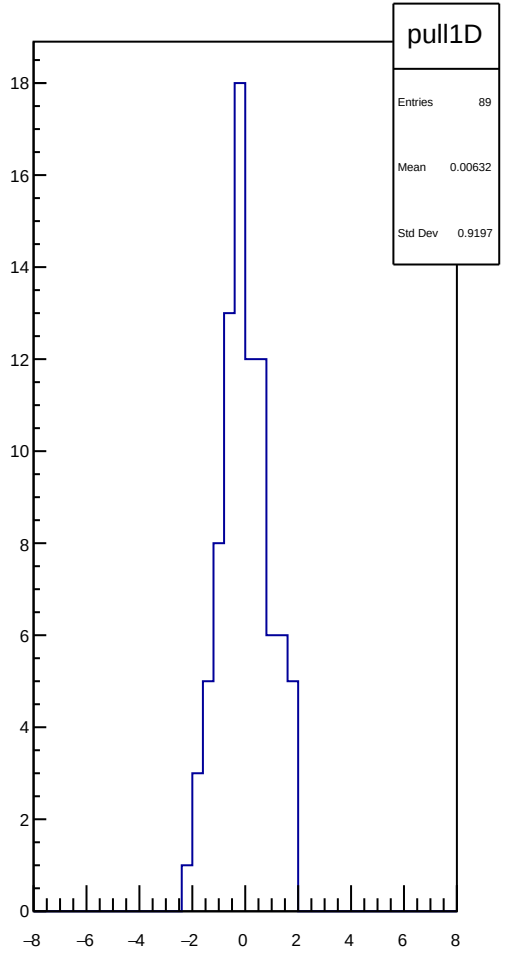

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 7178 / 88
p0 391 ± 0.3017
480
460
440
420
400
380
360
340
320

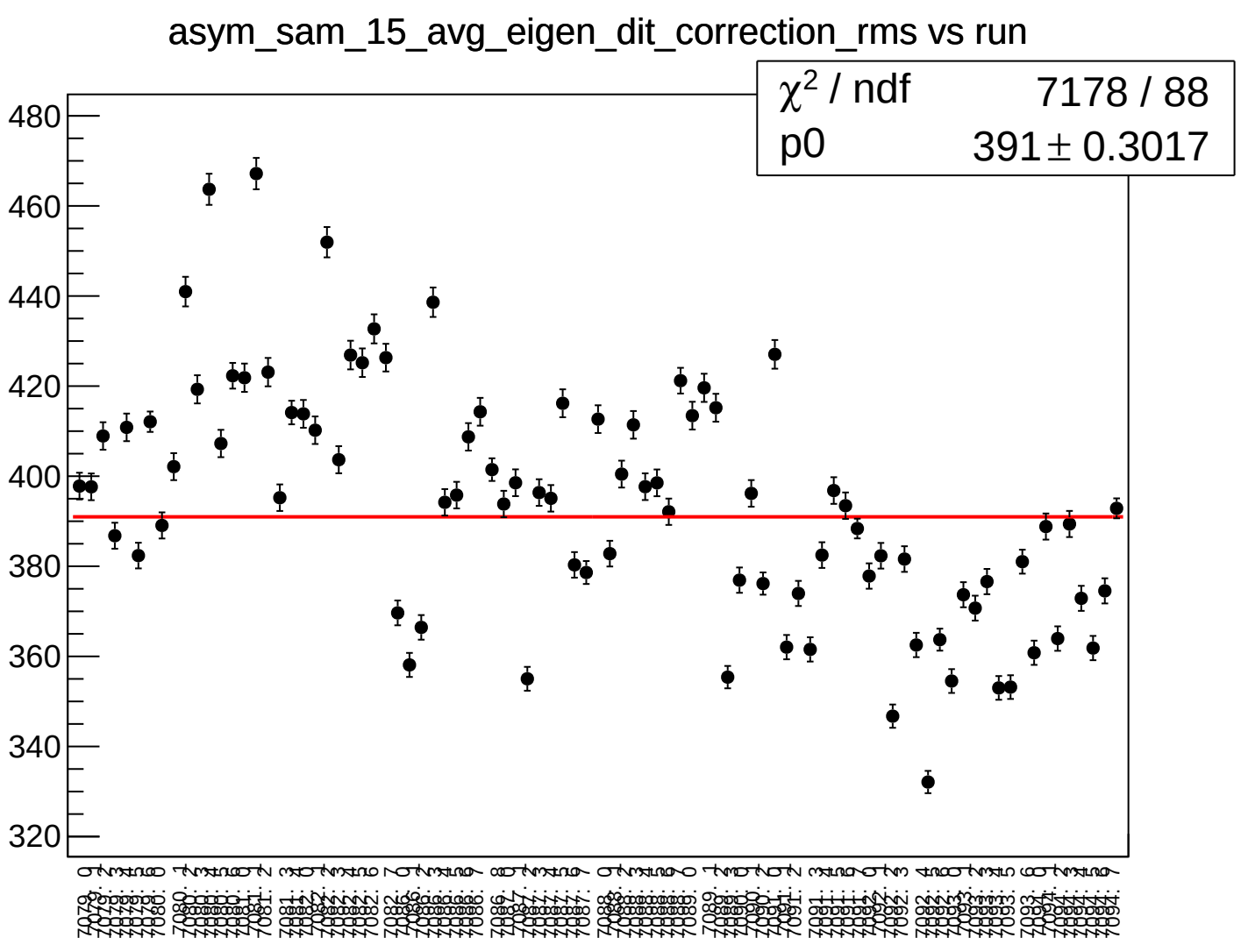

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 87.23 / 88
p0 −52.07 ± 73.38
pull
Entries 89
Mean 6202
Std Dev 0

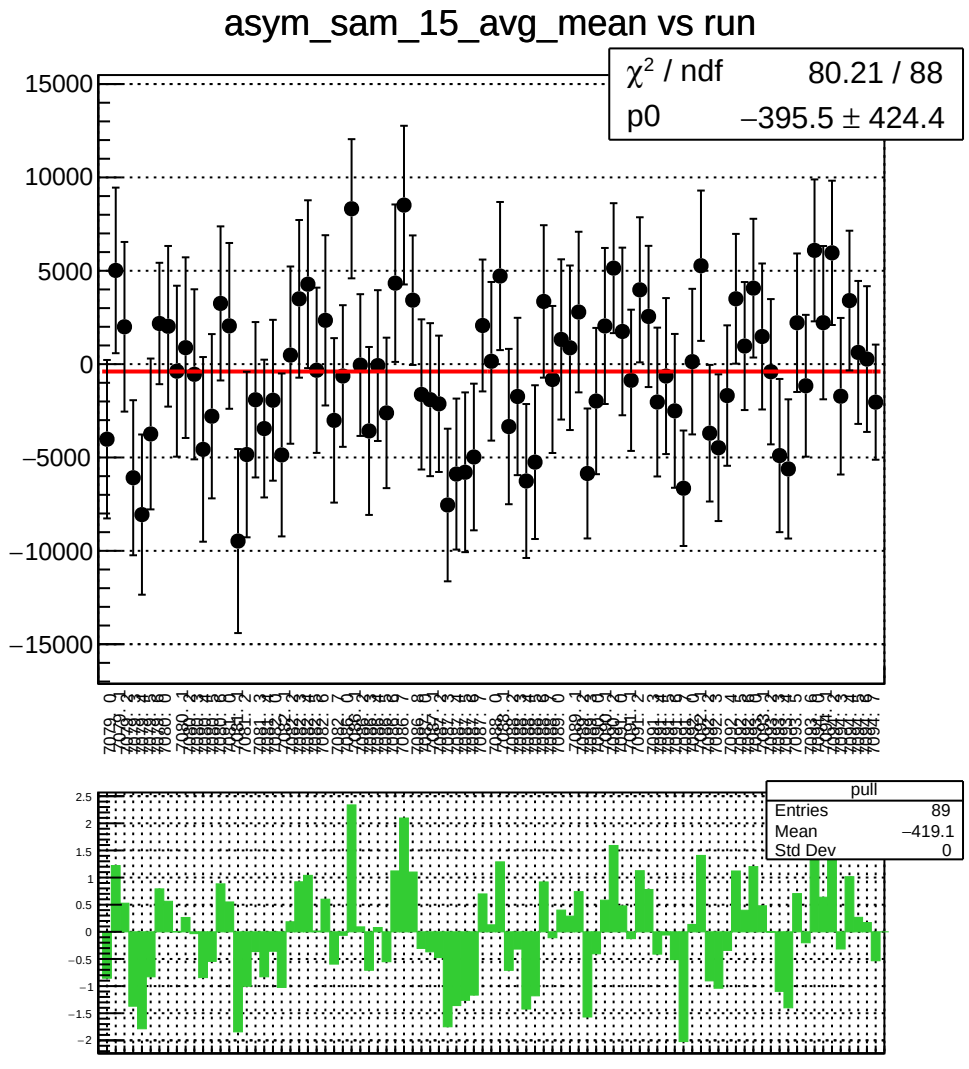

pull1D
Entries 89
Mean 0.0004514
Std Dev 0.99

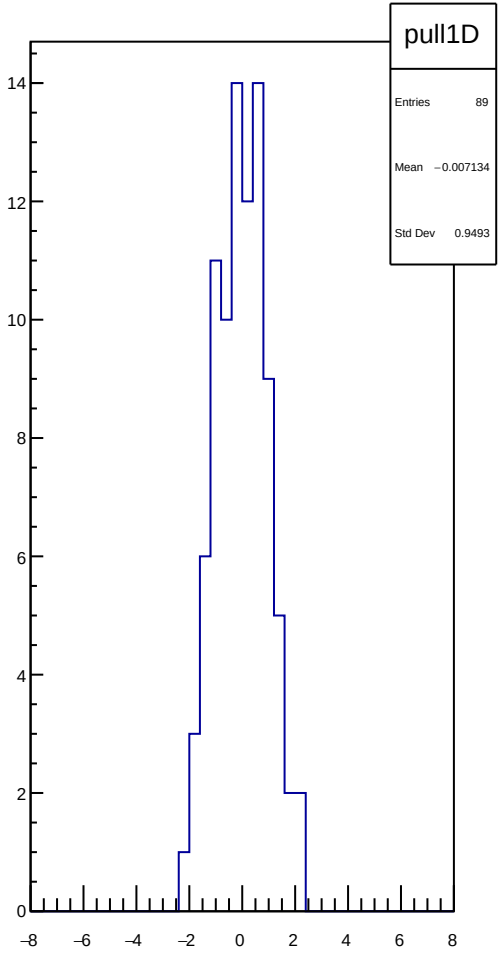

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 7156 / 88
p0 67.23 ± 0.05189
95
90
85
80
75
70
65
60

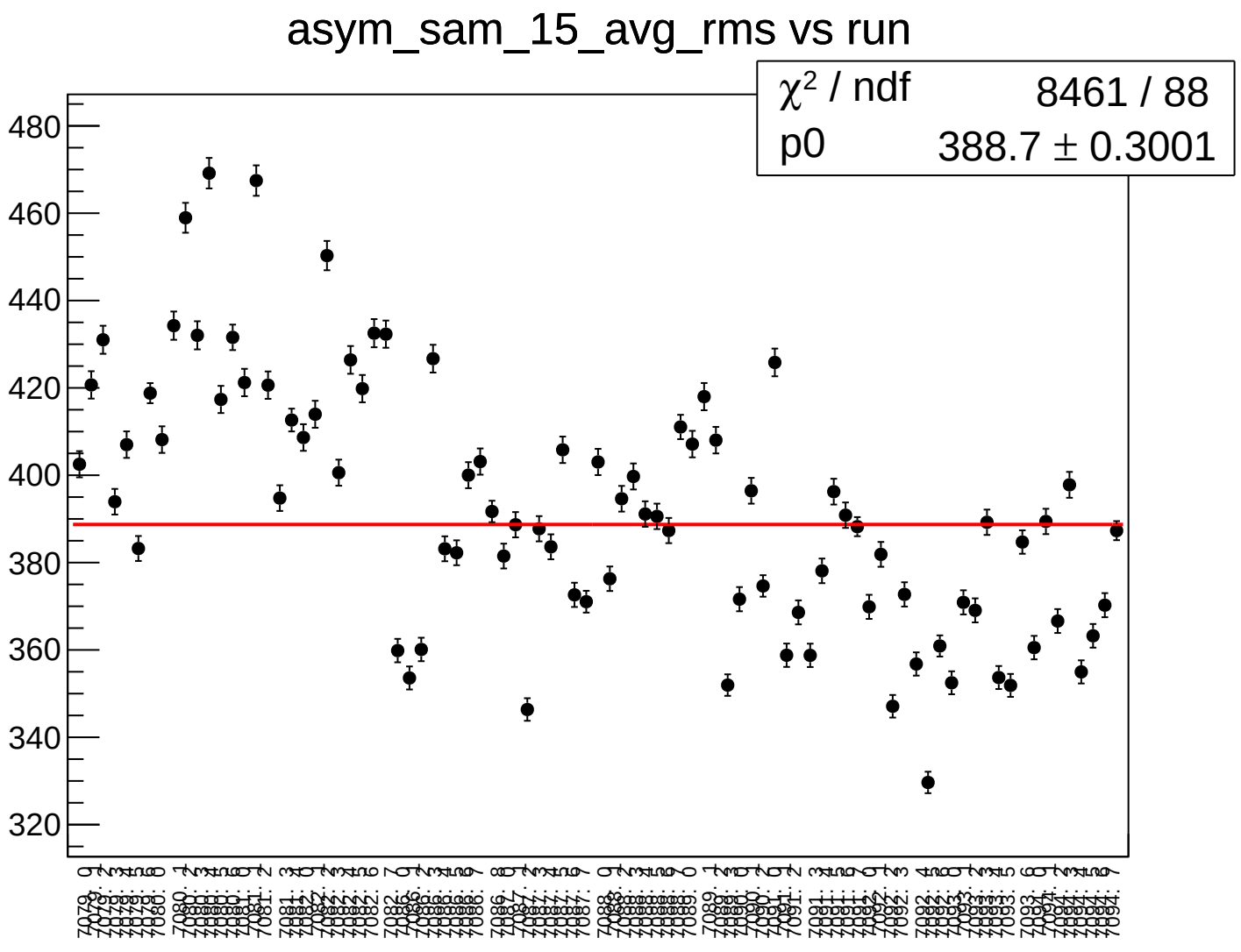

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.28 / 88
p0 347.7 ± 426.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −386.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

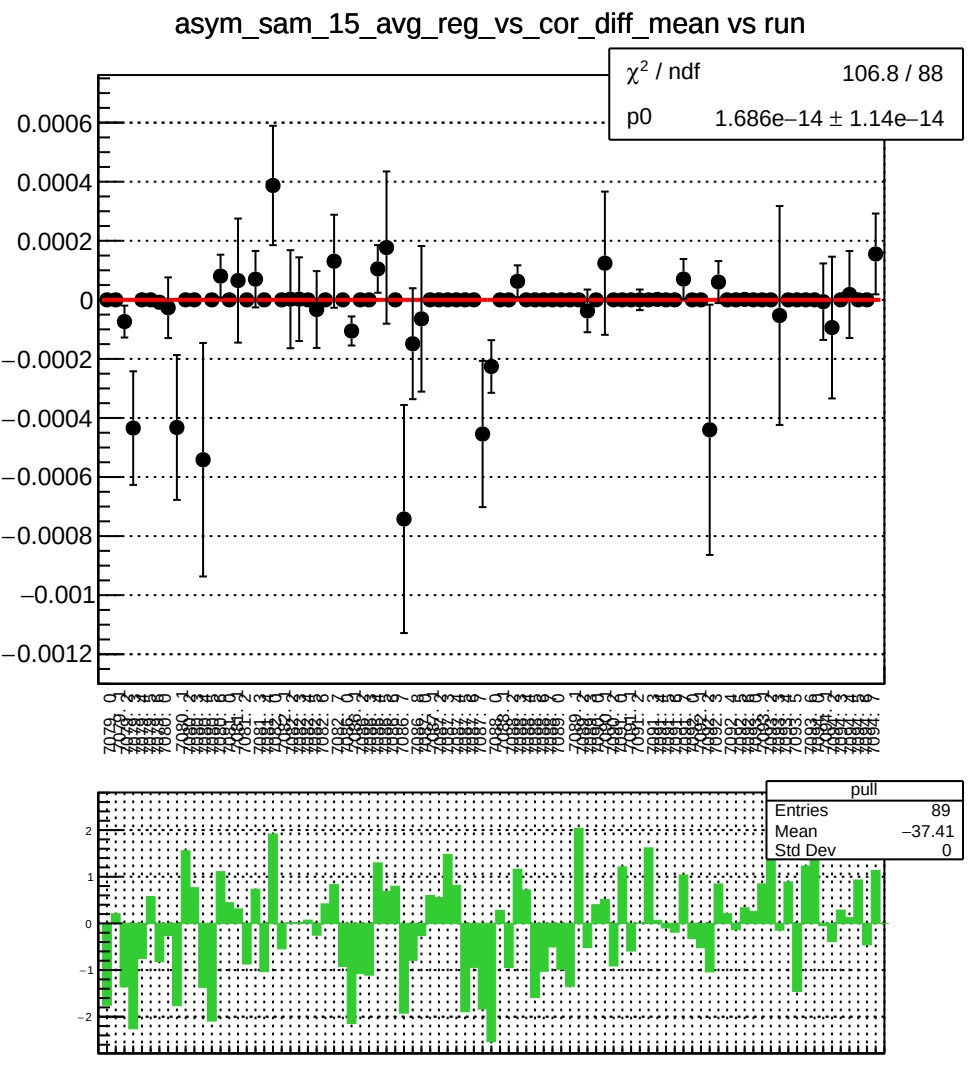

pull1D
Entries 89
Mean 0.00632
Std Dev 0.9197
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

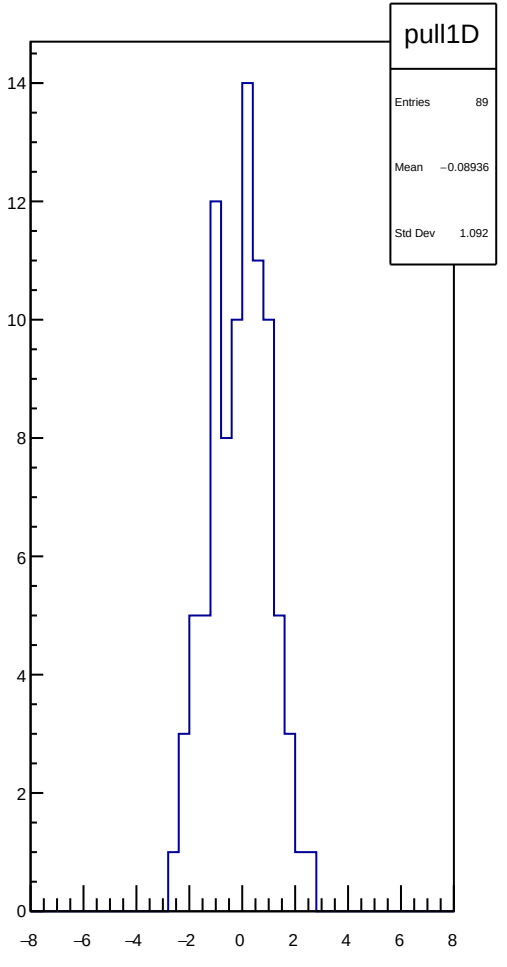

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 7178 / 88
p0 391 ± 0.3017
480
460
440
420
400
380
360
340
320

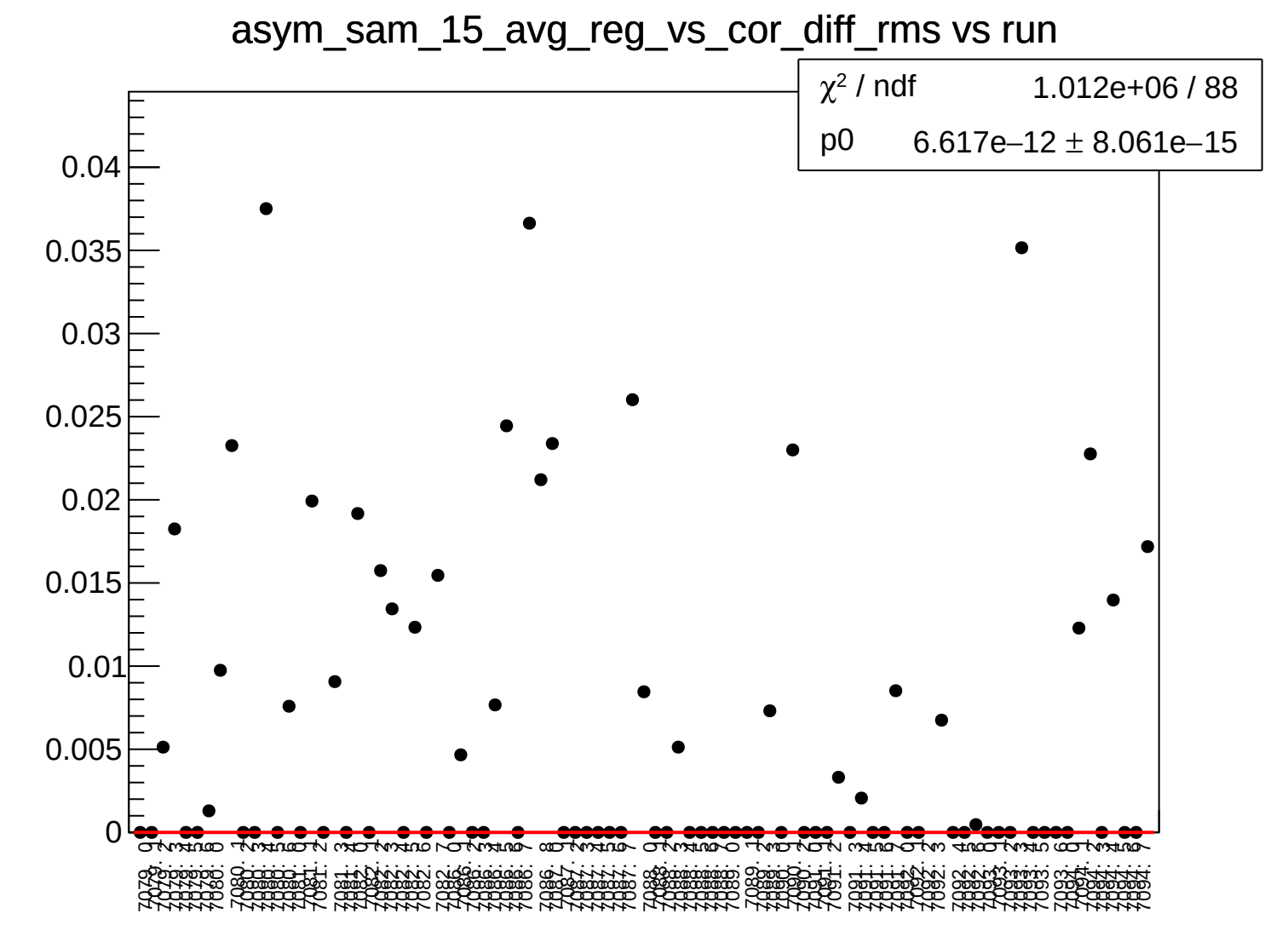

asym_sam_15_avg_mean vs run
χ² / ndf 80.21 / 88
p0 −395.5 ± 424.4
pull
Entries 89
Mean −419.1
Std Dev 0

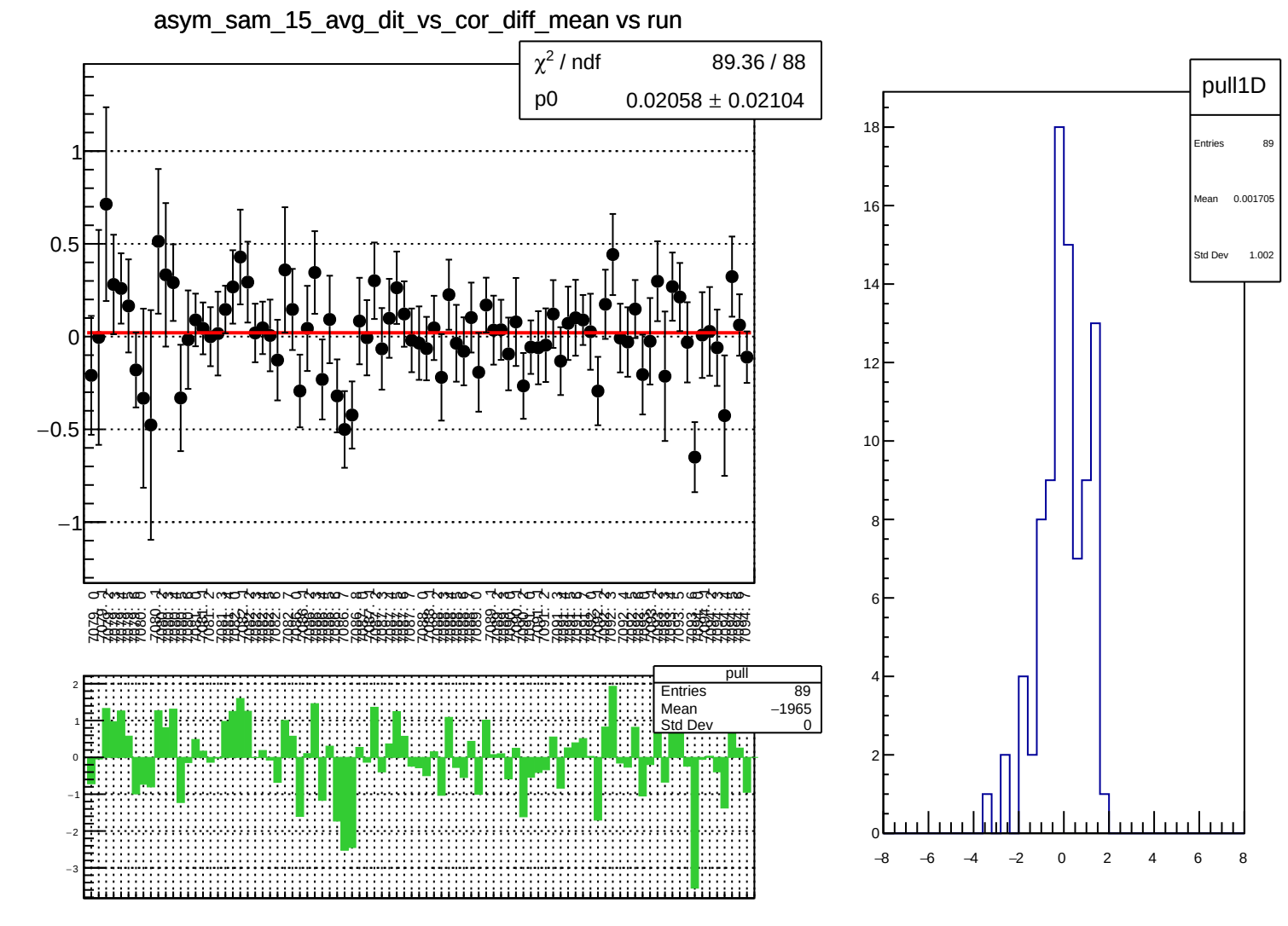

pull1D
Entries 89
Mean −0.007134
Std Dev 0.9493

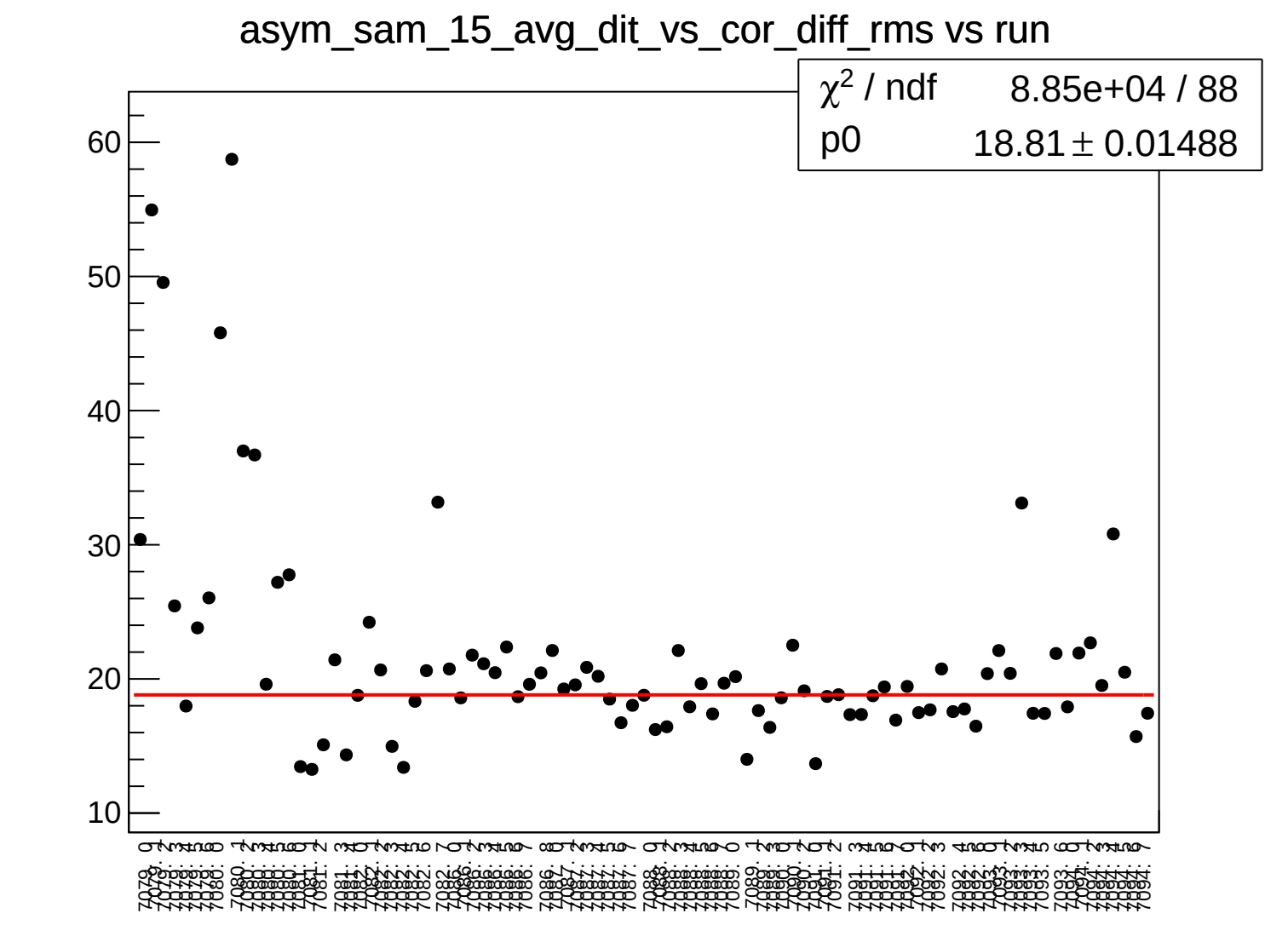

asym_sam_15_avg_rms vs run
χ² / ndf 8461 / 88
p0 388.7 ± 0.3001
480
460
440
420
400
380
360
340
320

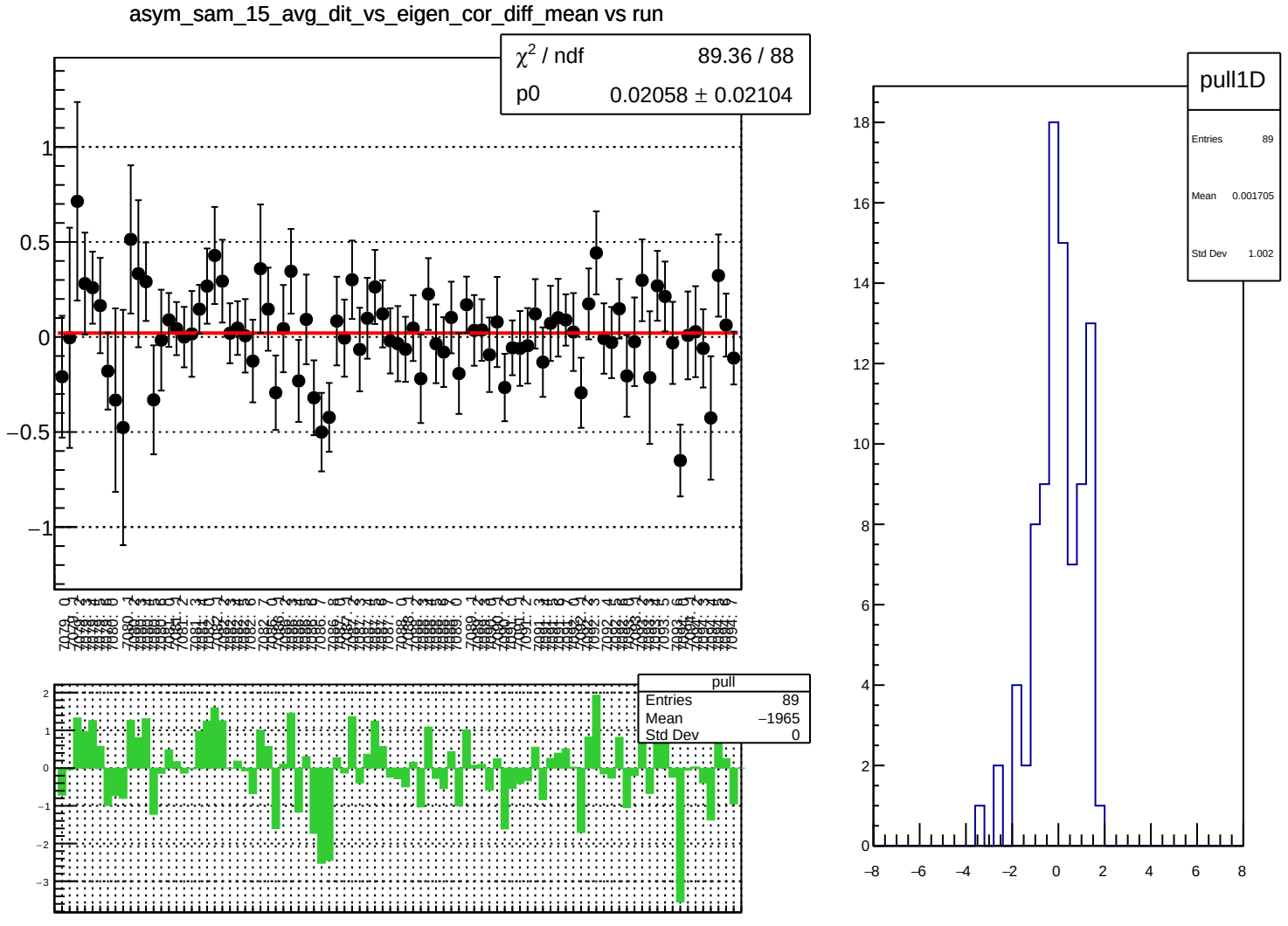

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 88
p0 1.686e−14 ± 1.14e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 89
Mean −37.41
Std Dev 0
2
1
0
−1
−2

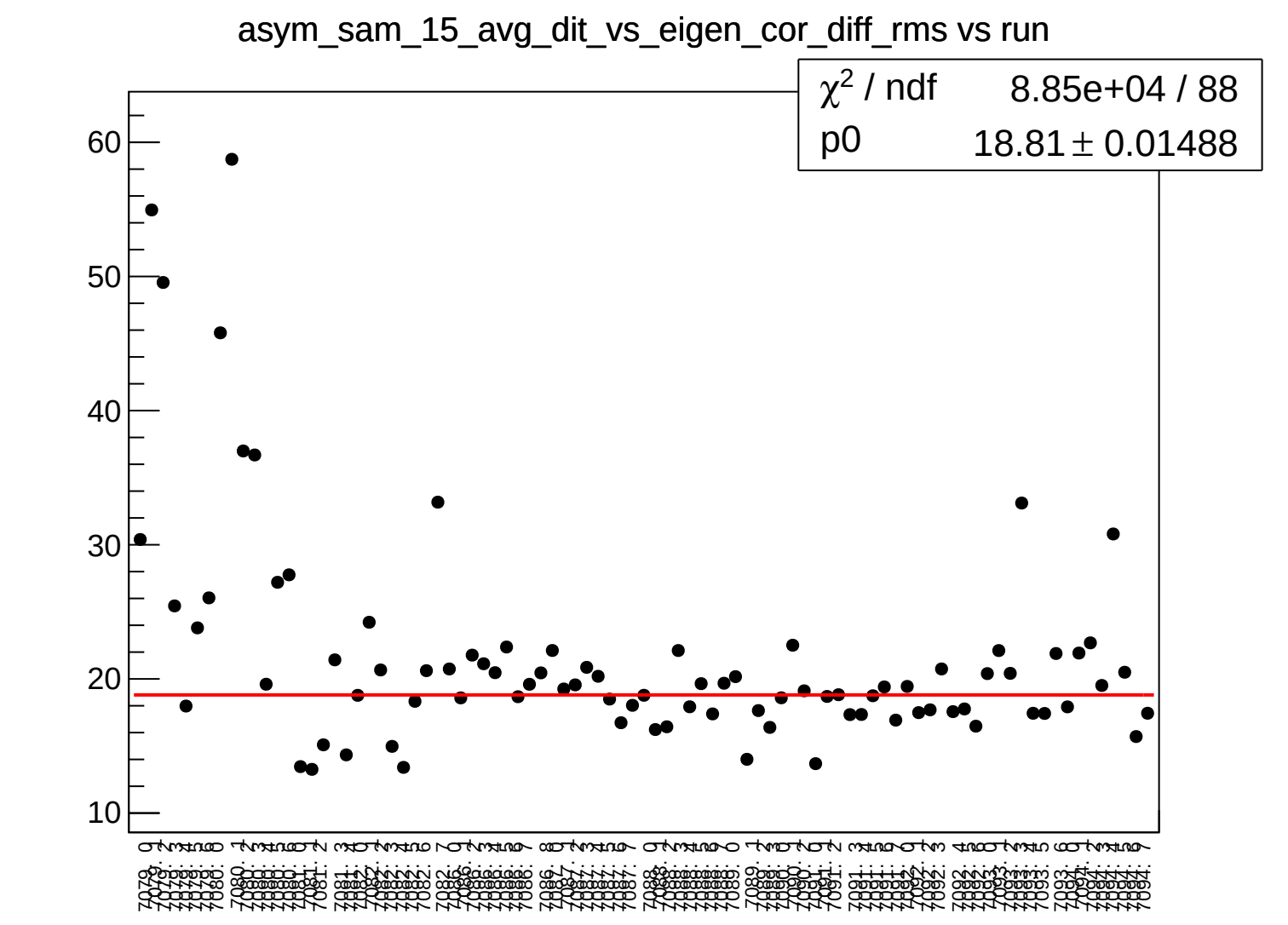

pull1D
Entries 89
Mean −0.08936
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

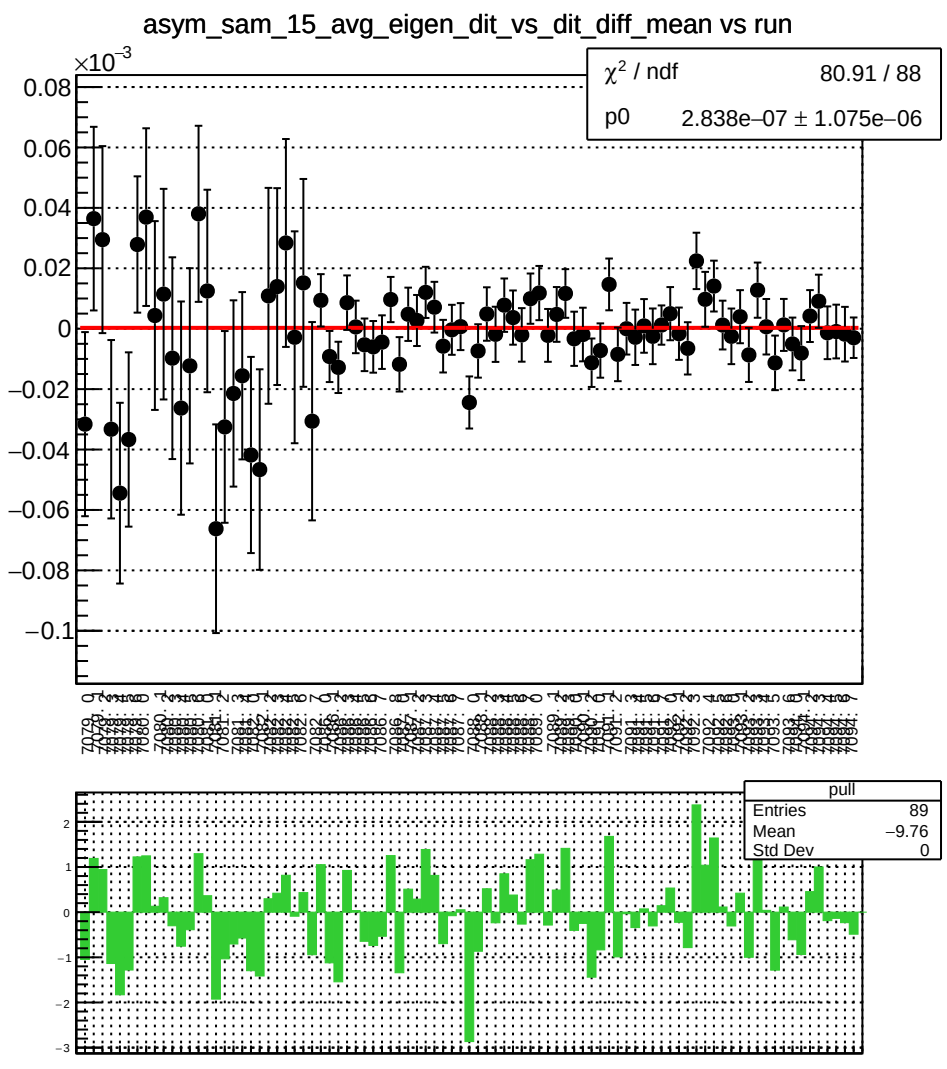

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.012e+06 / 88
p0 6.617e−12 ± 8.061e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

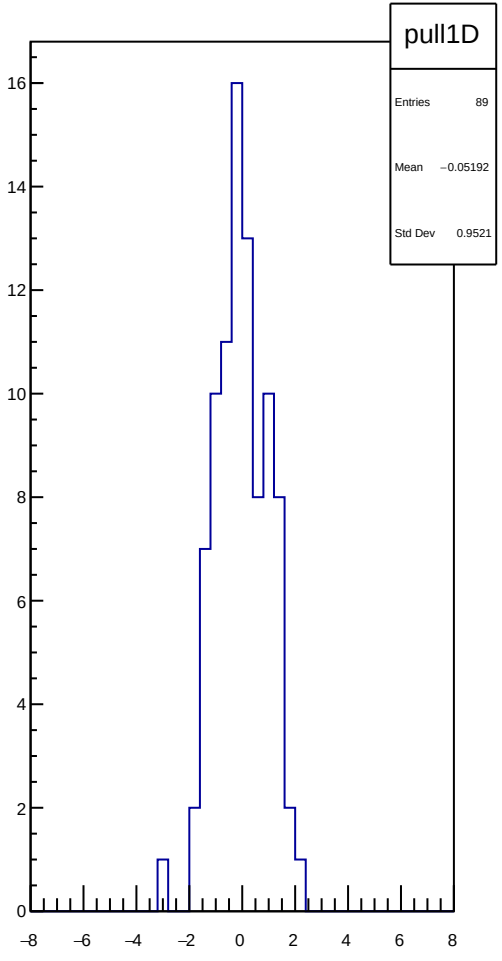

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.36 / 88
p0 0.02058 ± 0.02104
pull
Entries 89
Mean −1965
Std Dev 0
pull1D
Entries 89
Mean 0.001705
Std Dev 1.002

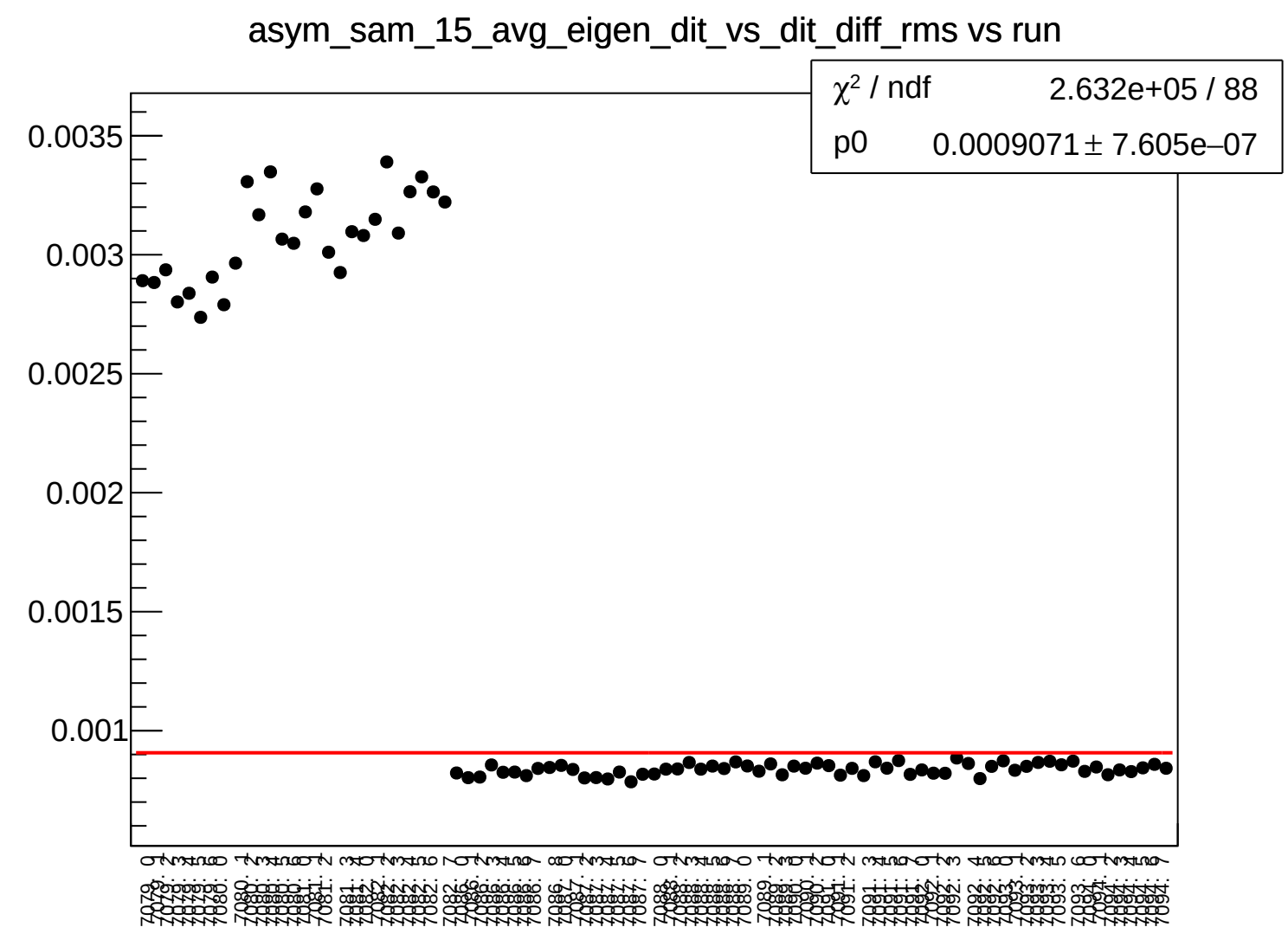

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.85e+04 / 88
p0 18.81 ± 0.01488
60
50
40
30
20
10

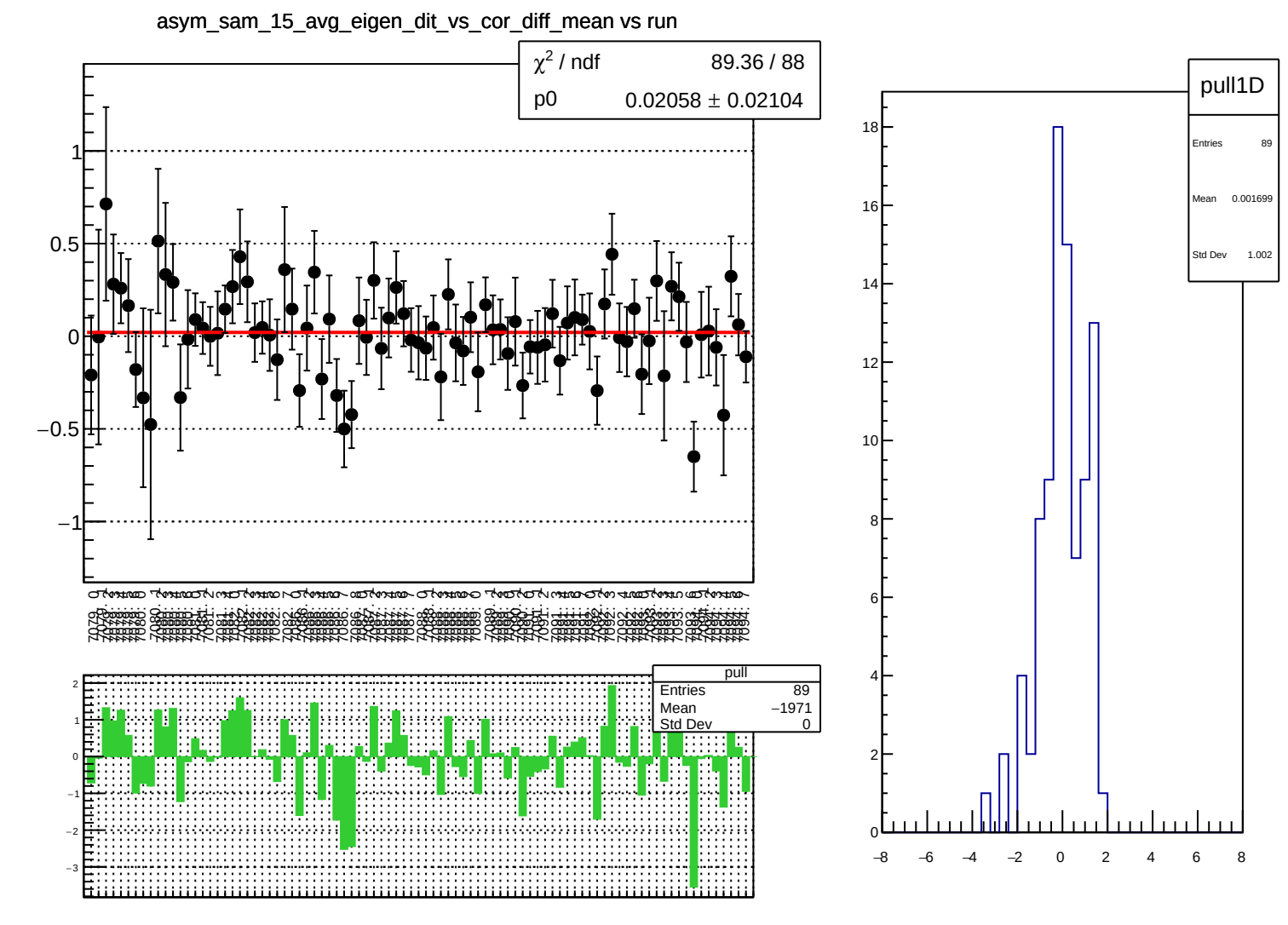

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.36 / 88
p0 0.02058 ± 0.02104
pull
Entries 89
Mean −1965
Std Dev 0
pull1D
Entries 89
Mean 0.001705
Std Dev 1.002

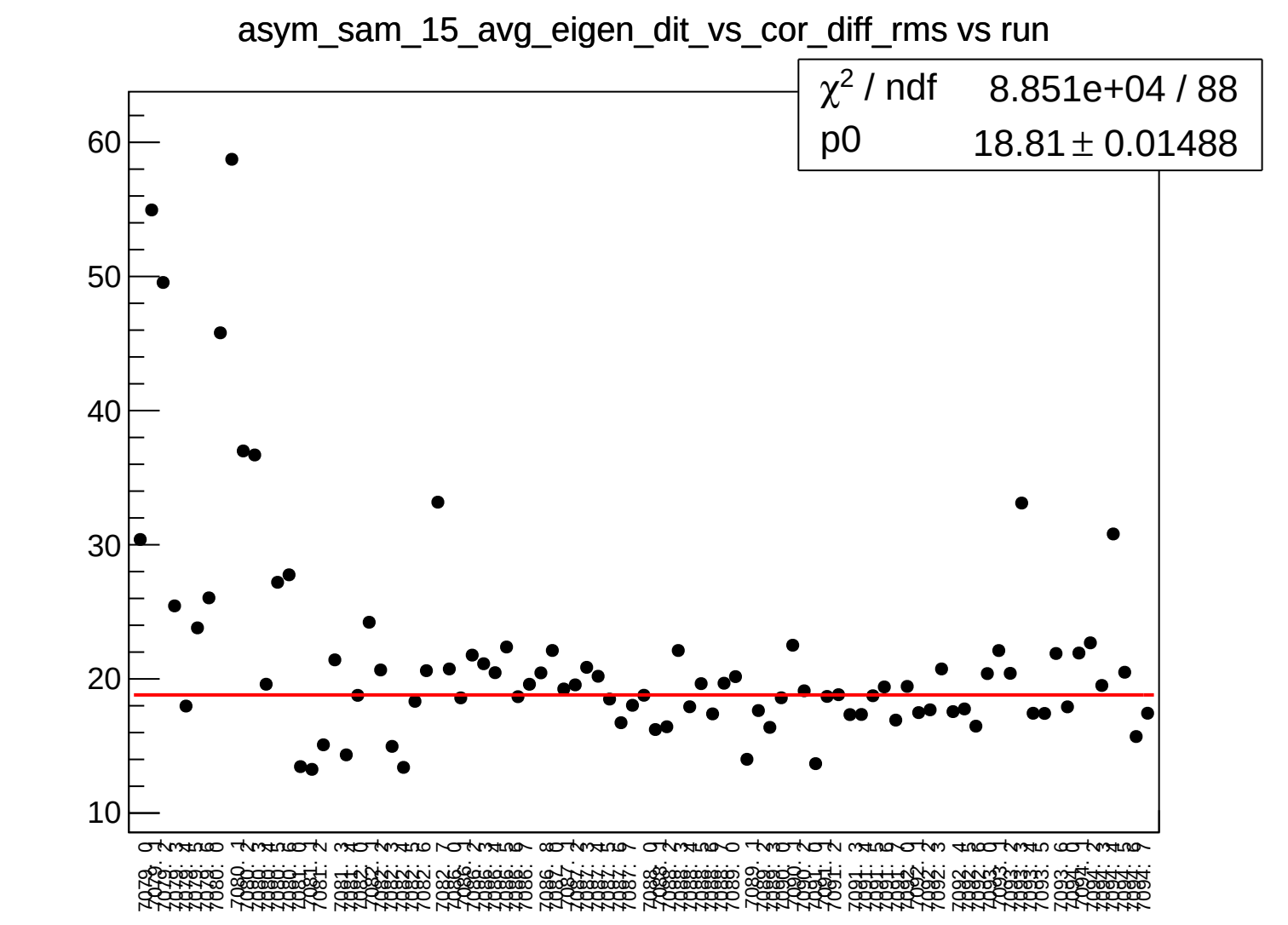

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.85e+04 / 88
p0 18.81 ± 0.01488
60
50
40
30
20
10

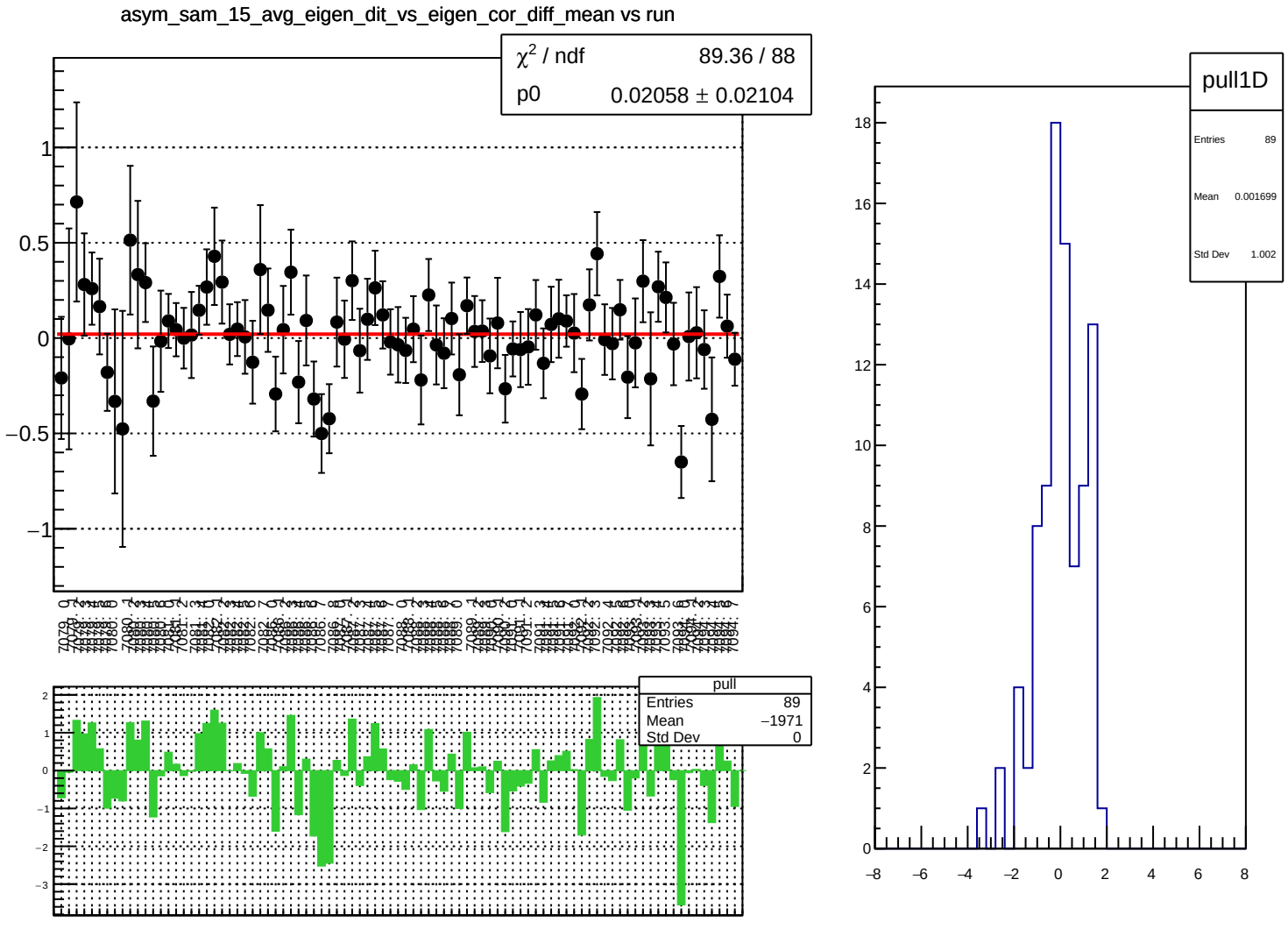

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.91 / 88
p0 2.838e−07 ± 1.075e−06
pull
Entries 89
Mean −9.76
Std Dev 0

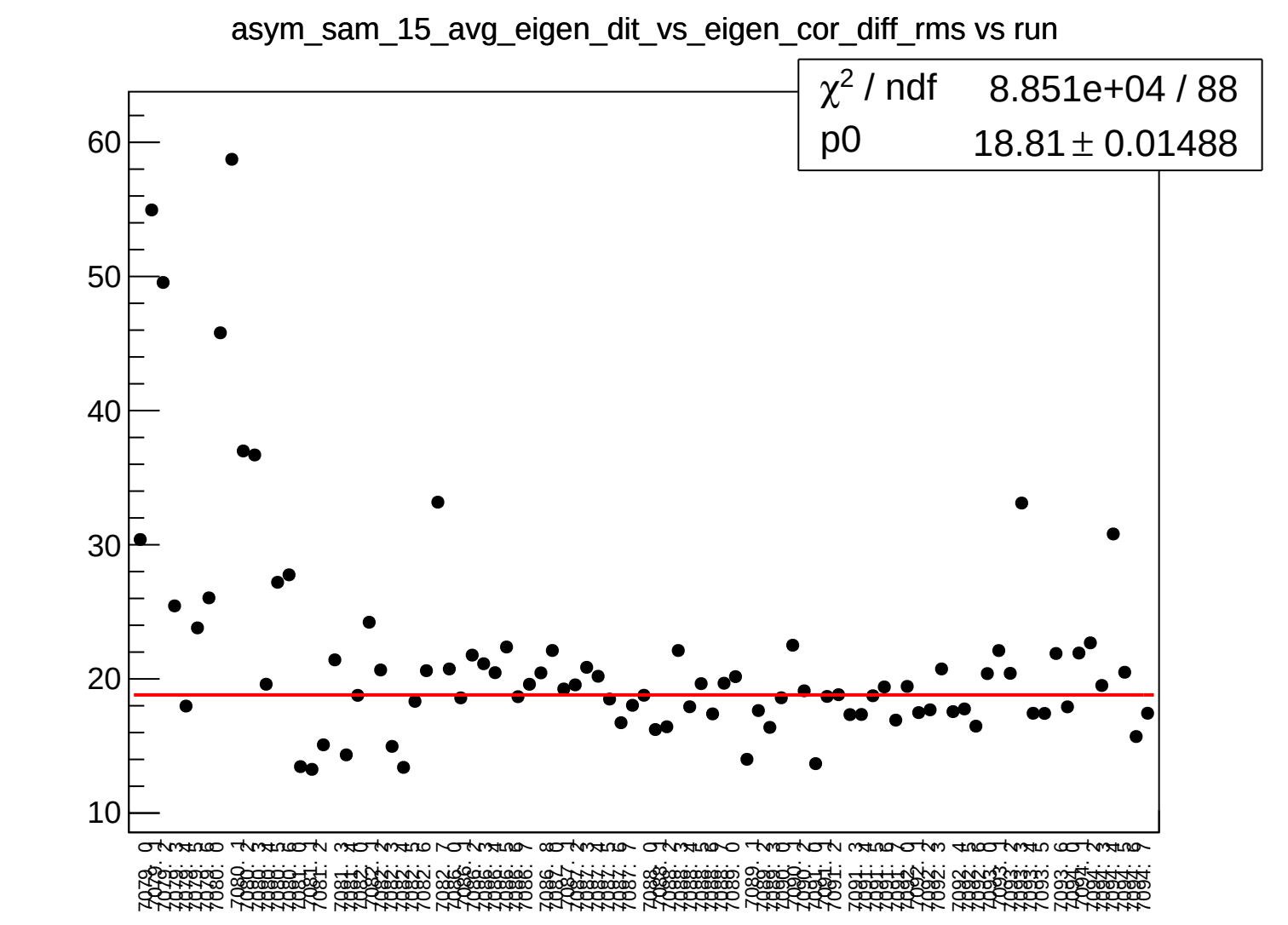

pull1D
Entries 89
Mean −0.05192
Std Dev 0.9521

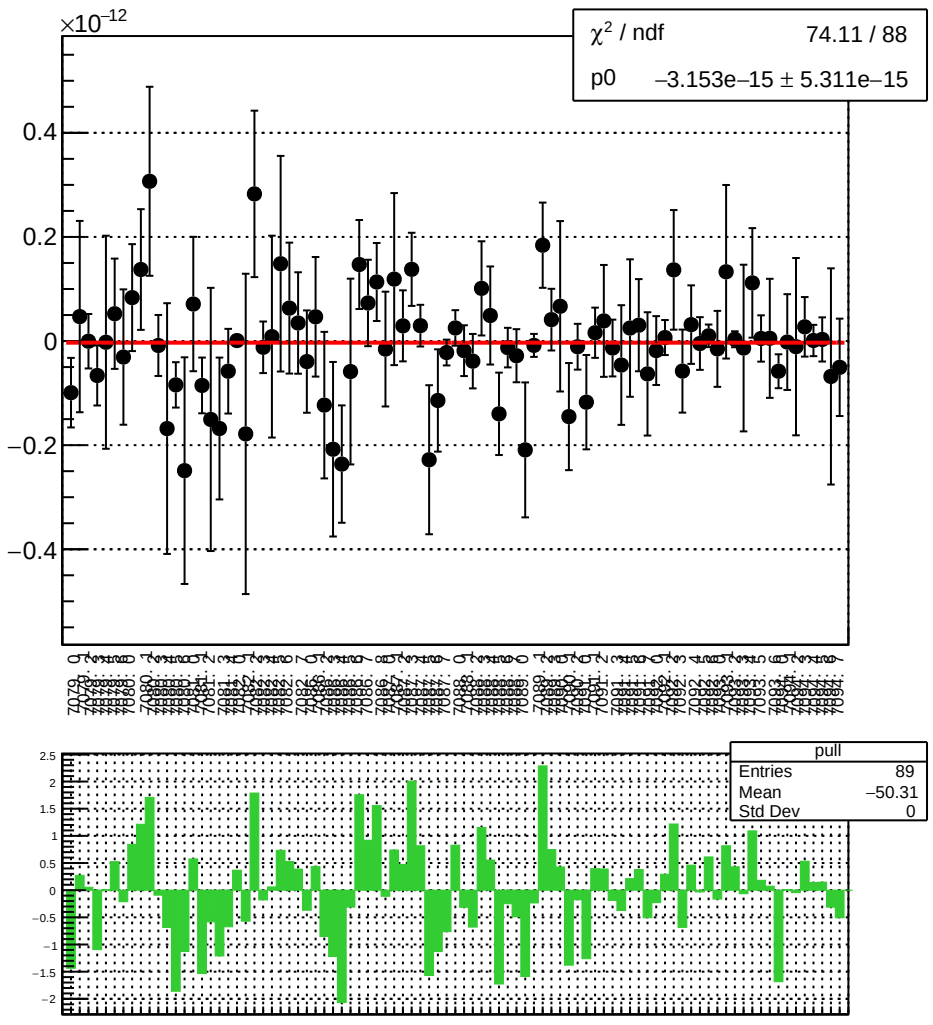

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.632e+05 / 88
p0 0.0009071 ± 7.605e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001

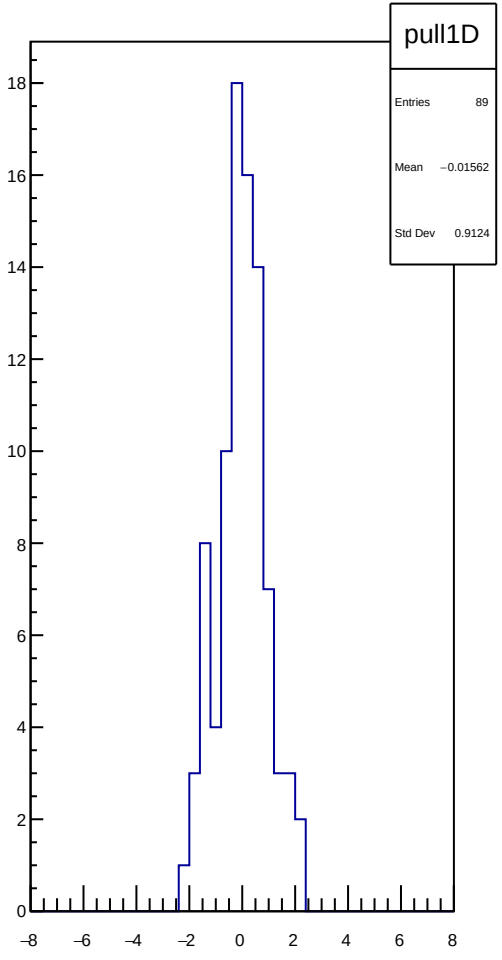

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.36 / 88
p0 0.02058 ± 0.02104
pull
Entries 89
Mean −1971
Std Dev 0
pull1D
Entries 89
Mean 0.001699
Std Dev 1.002

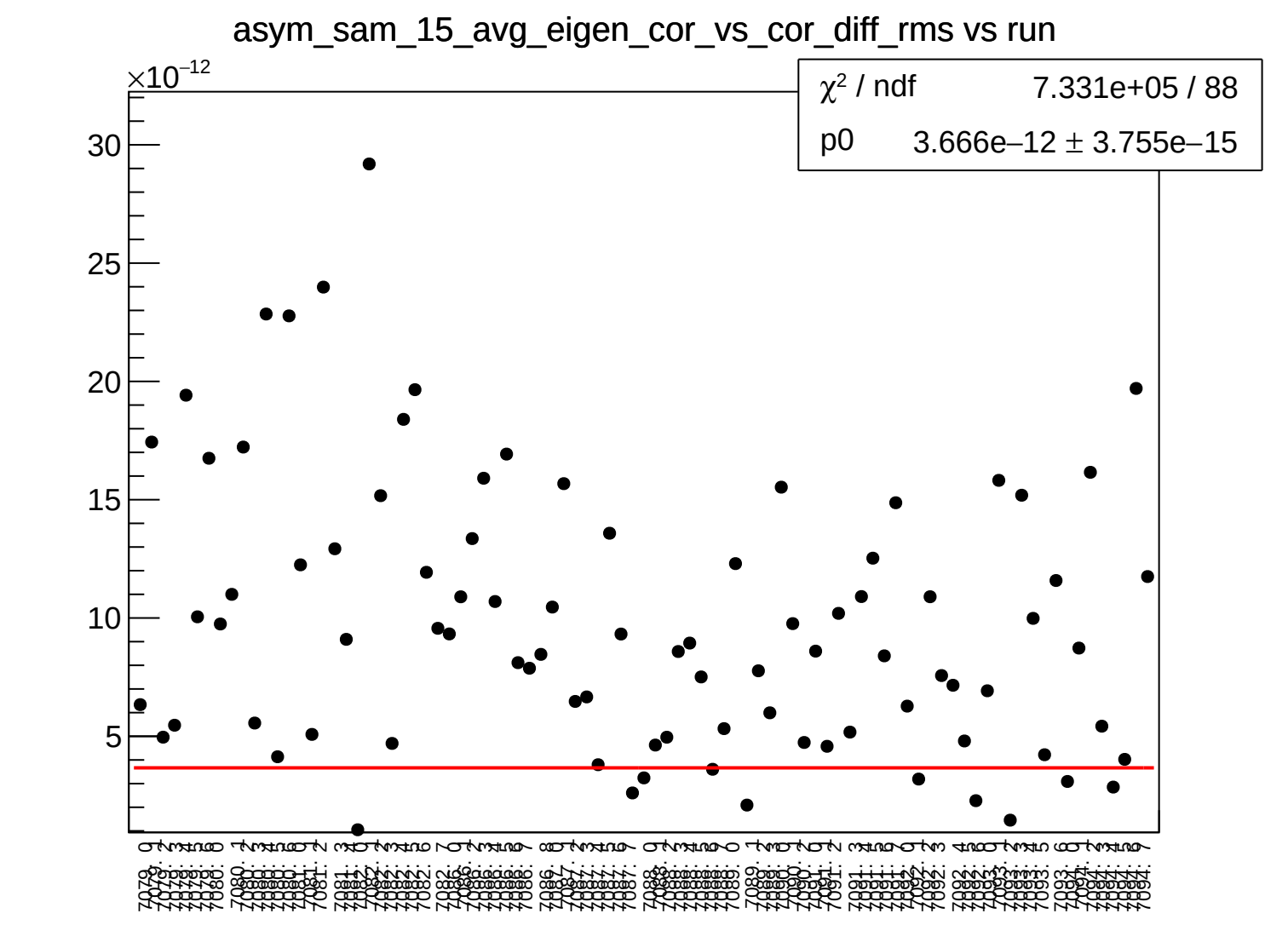

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.851e+04 / 88
p0 18.81 ± 0.01488
60
50
40
30
20
10

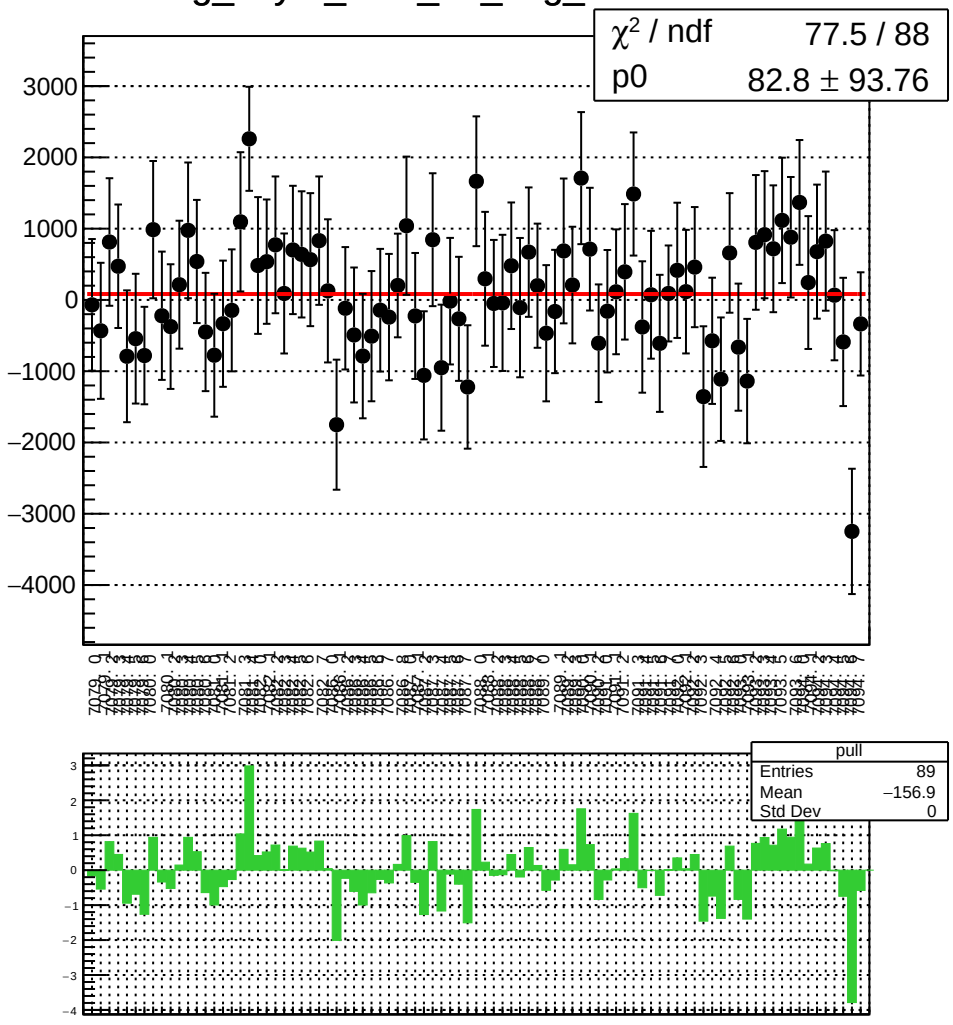

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.36 / 88
p0 0.02058 ± 0.02104
pull
Entries 89
Mean −1971
Std Dev 0
pull1D
Entries 89
Mean 0.001699
Std Dev 1.002

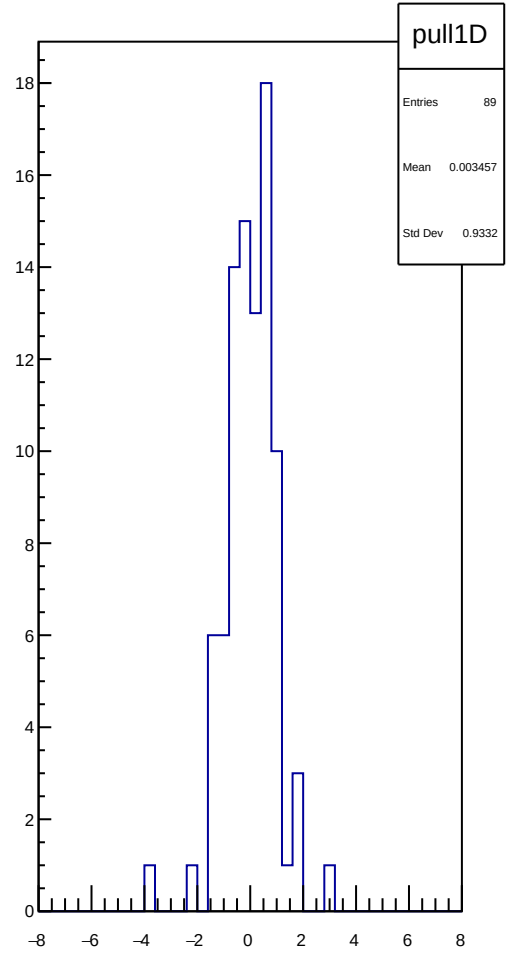

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.851e+04 / 88
p0 18.81 ± 0.01488
60
50
40
30
20
10

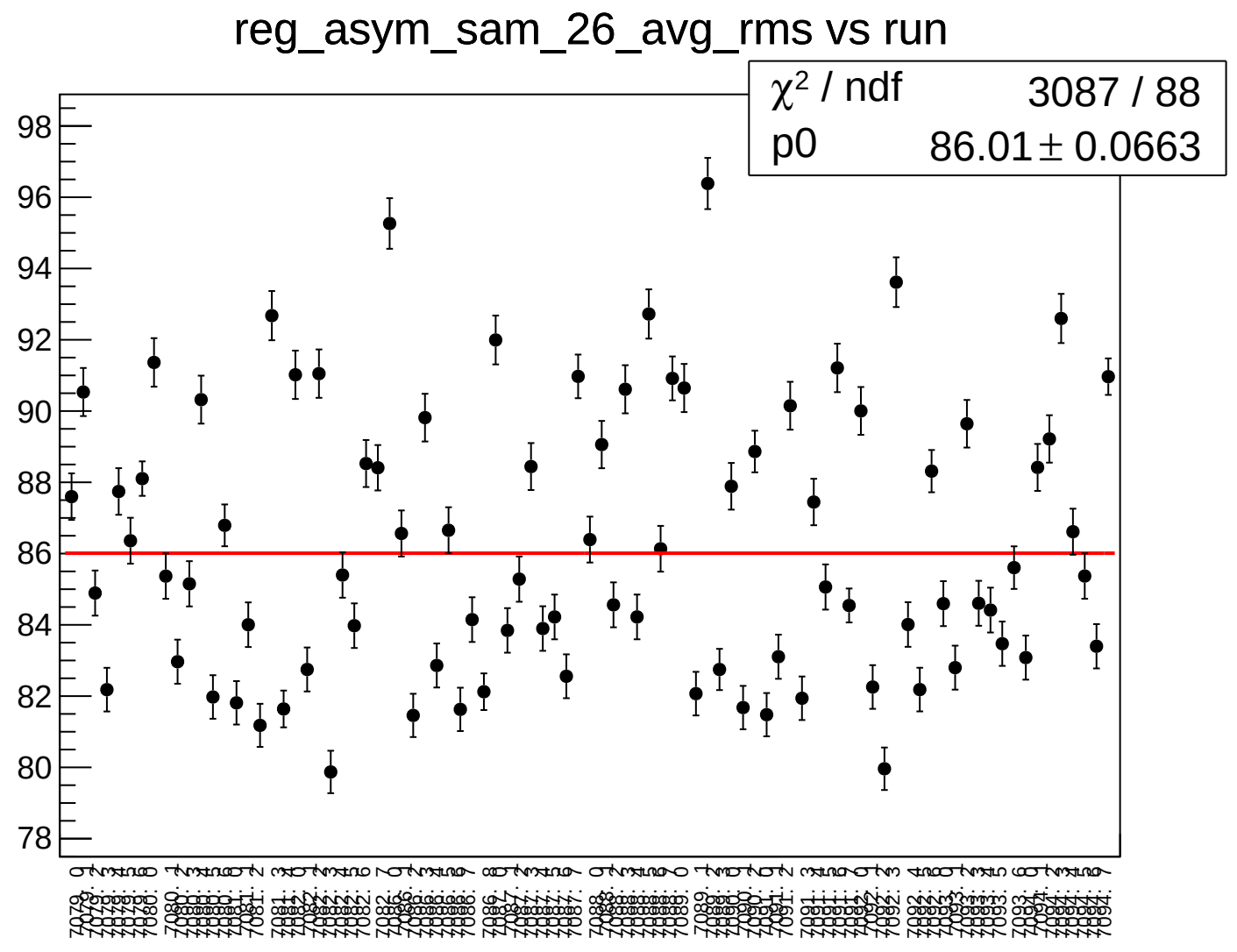

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.11 / 88
p0 −3.153e−15 ± 5.311e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean −50.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

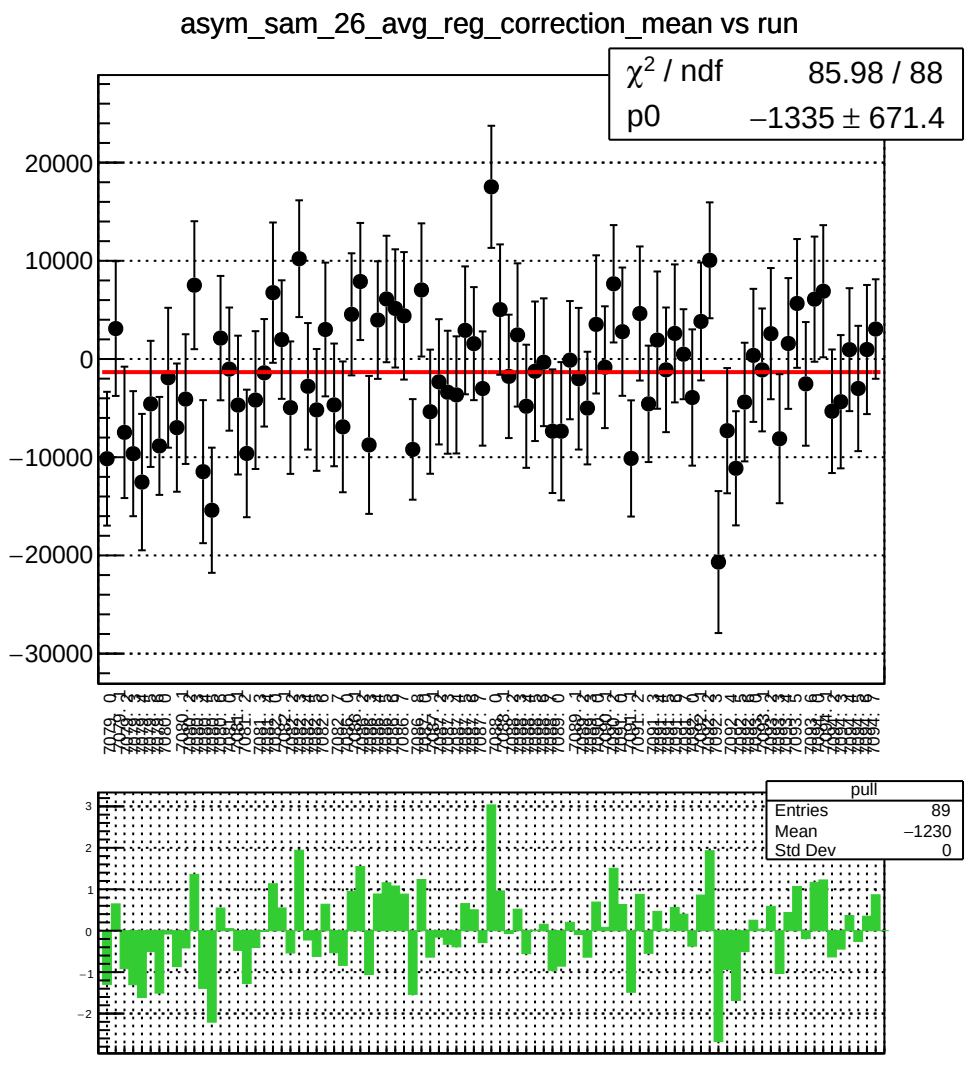

pull1D
Entries 89
Mean −0.01562
Std Dev 0.9124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

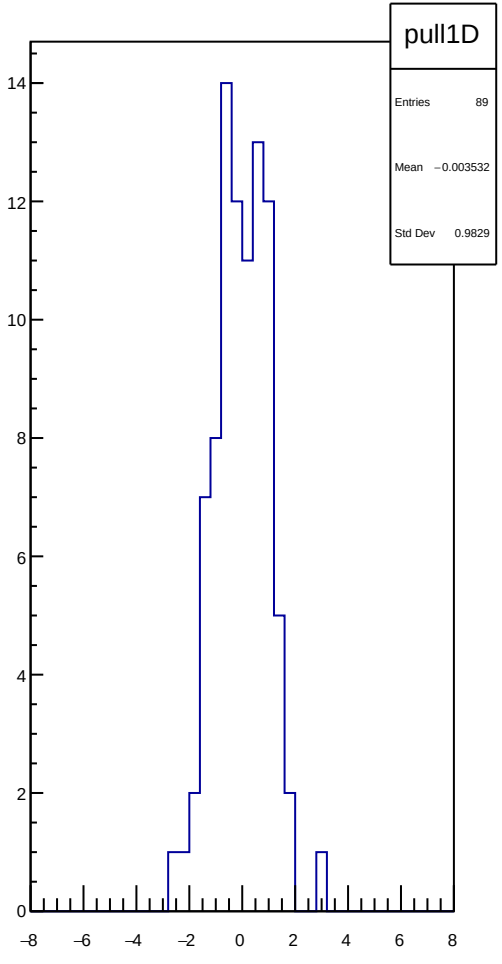

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.331e+05 / 88
p0 3.666e−12 ± 3.755e−15
30
25
20
15
10
5

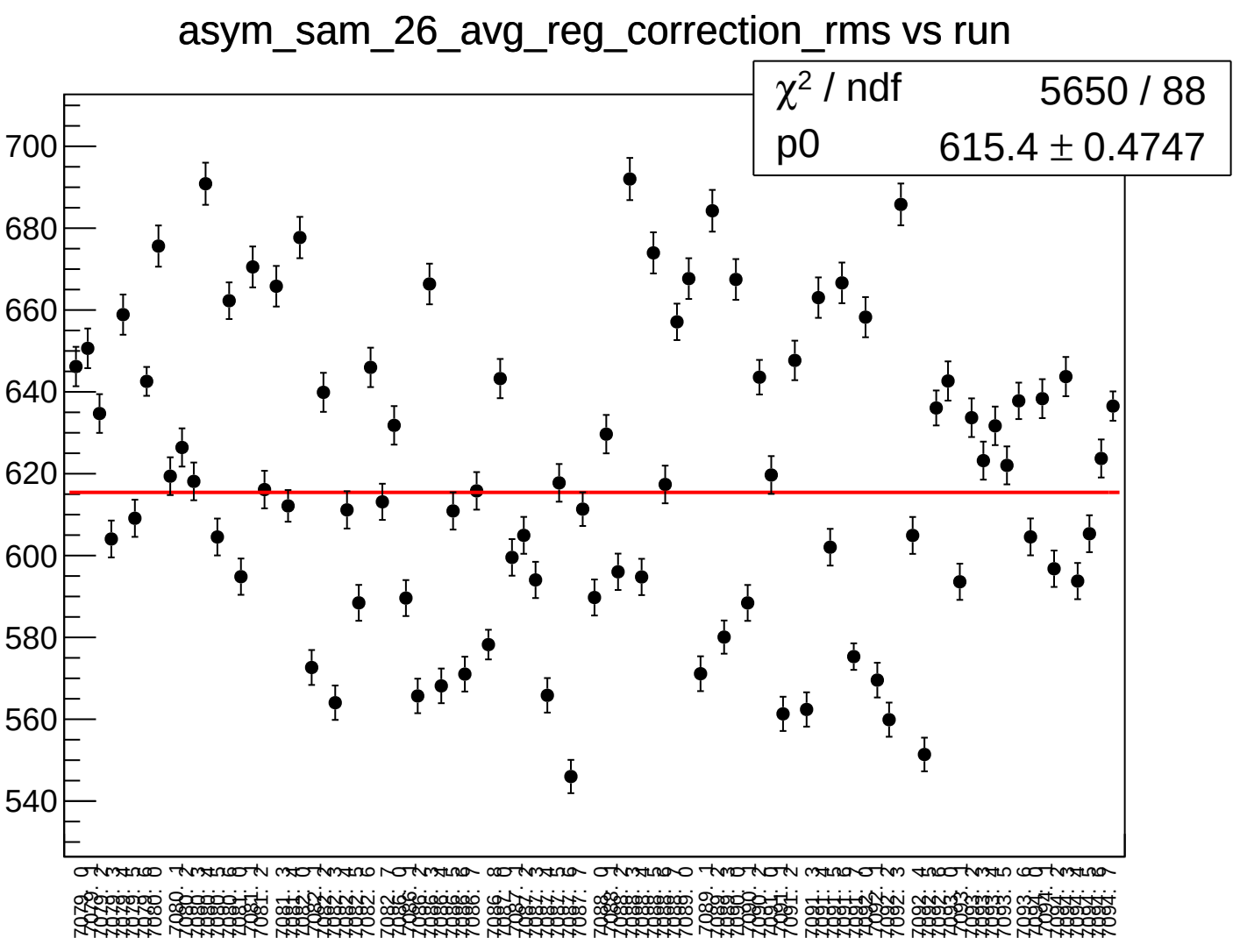

reg_asym_sam_26_avg_mean vs run
χ² / ndf 77.5 / 88
p0 82.8 ± 93.76
pull
Entries 89
Mean −156.9
Std Dev 0

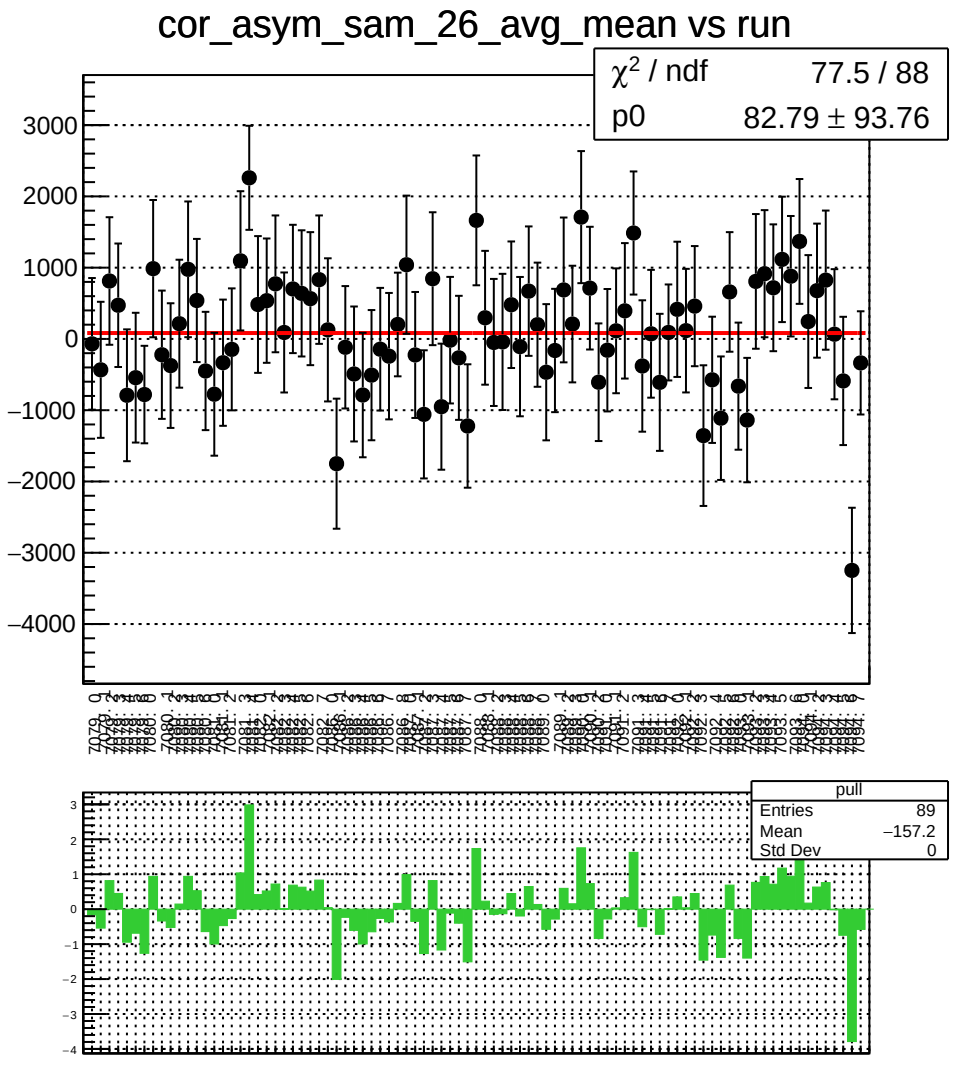

pull1D
Entries 89
Mean 0.003457
Std Dev 0.9332

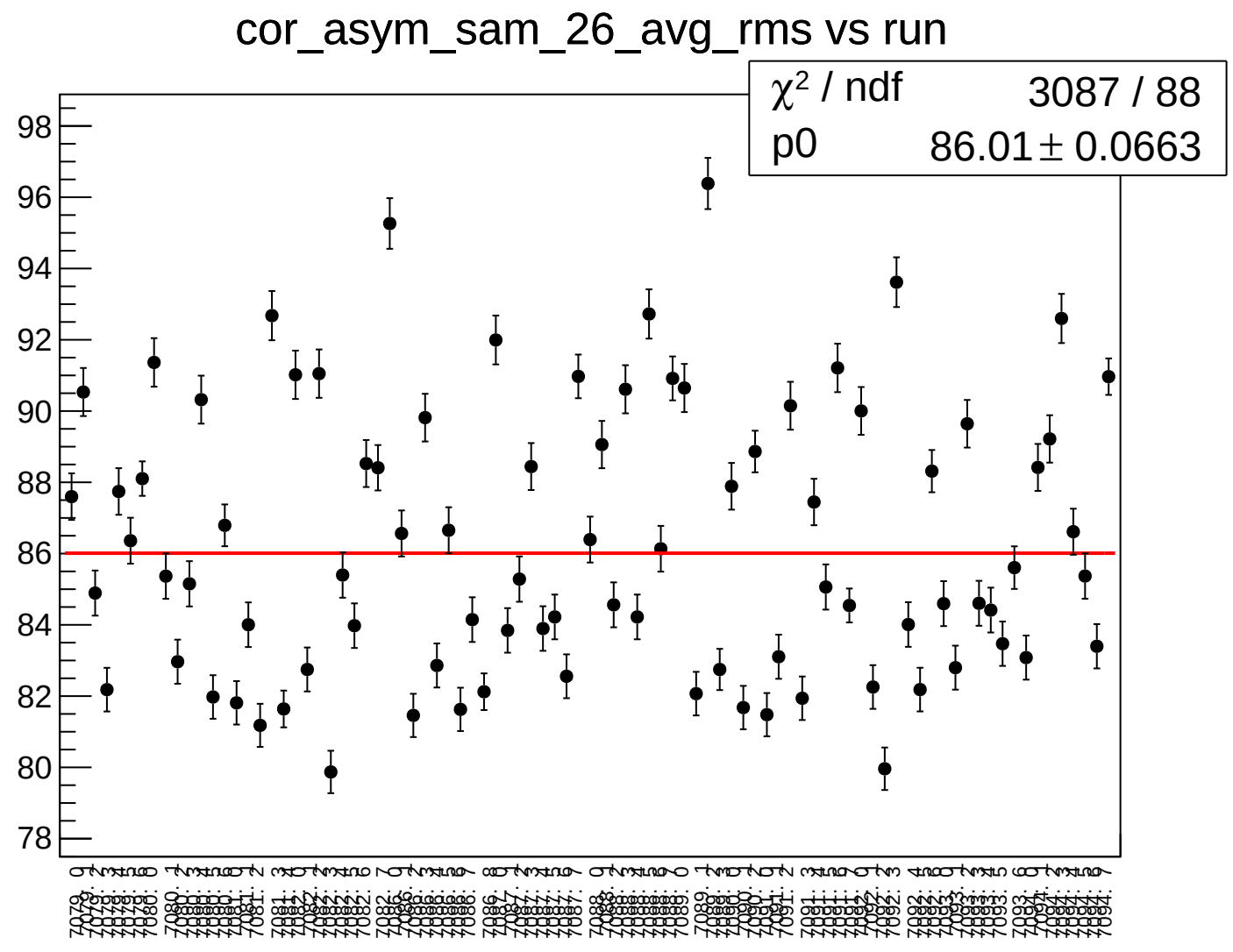

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3087 / 88
p0 86.01 ± 0.0663
98
96
94
92
90
88
86
84
82
80
78

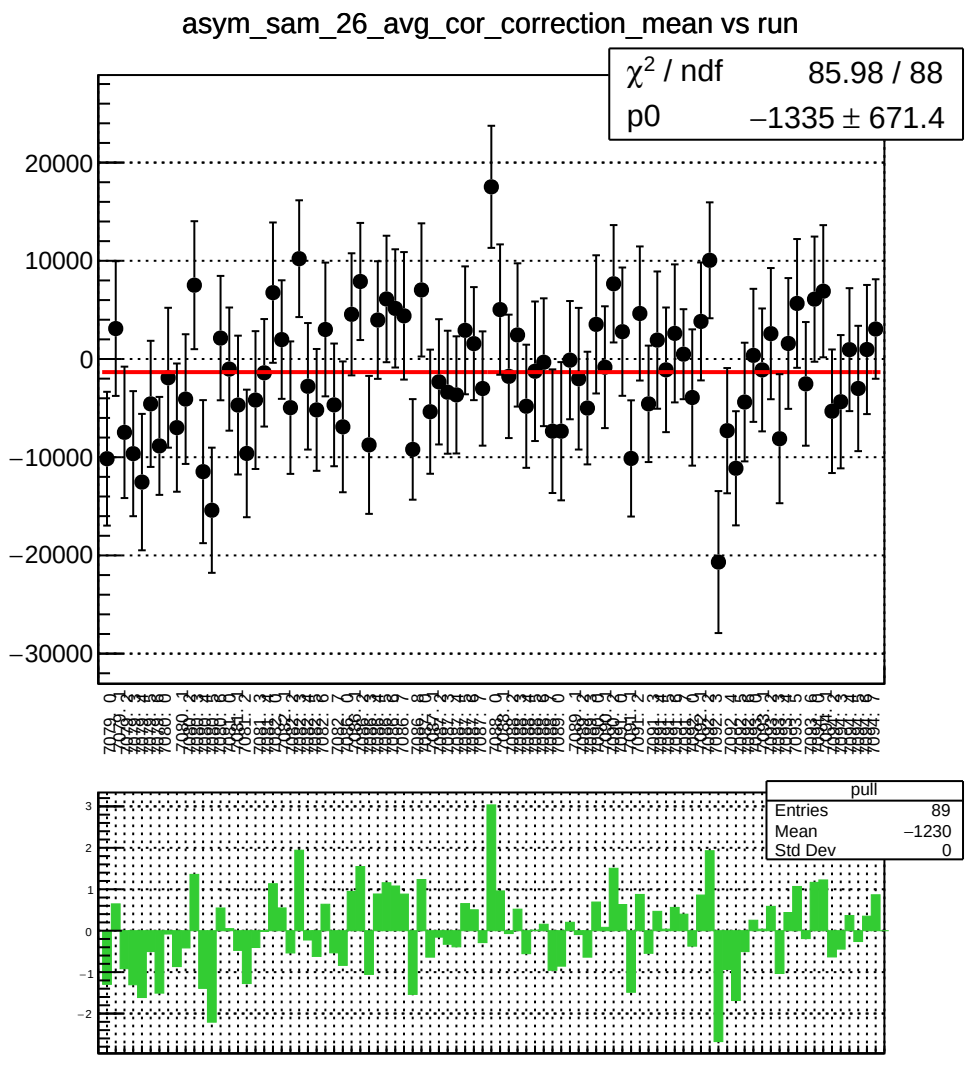

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 85.98 / 88
p0 −1335 ± 671.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1230
Std Dev 0
3
2
1
0
−1
−2

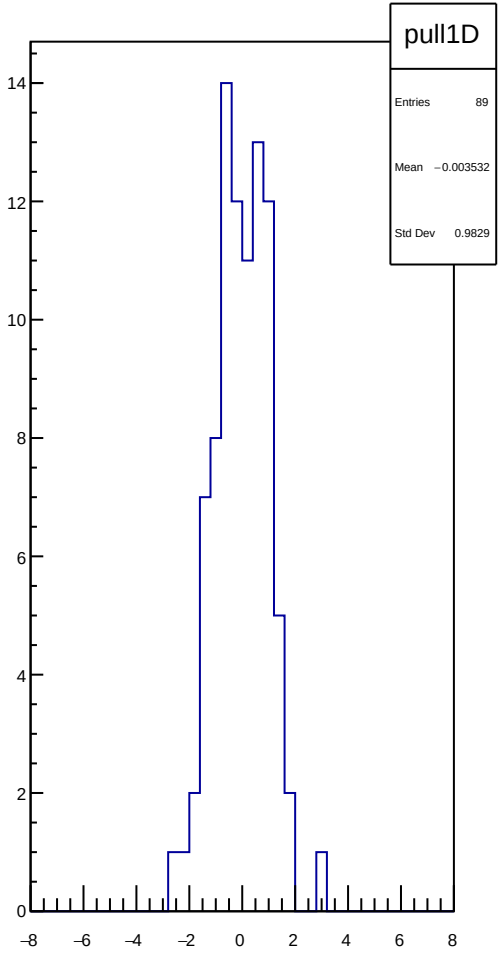

pull1D
Entries 89
Mean −0.003532
Std Dev 0.9829
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

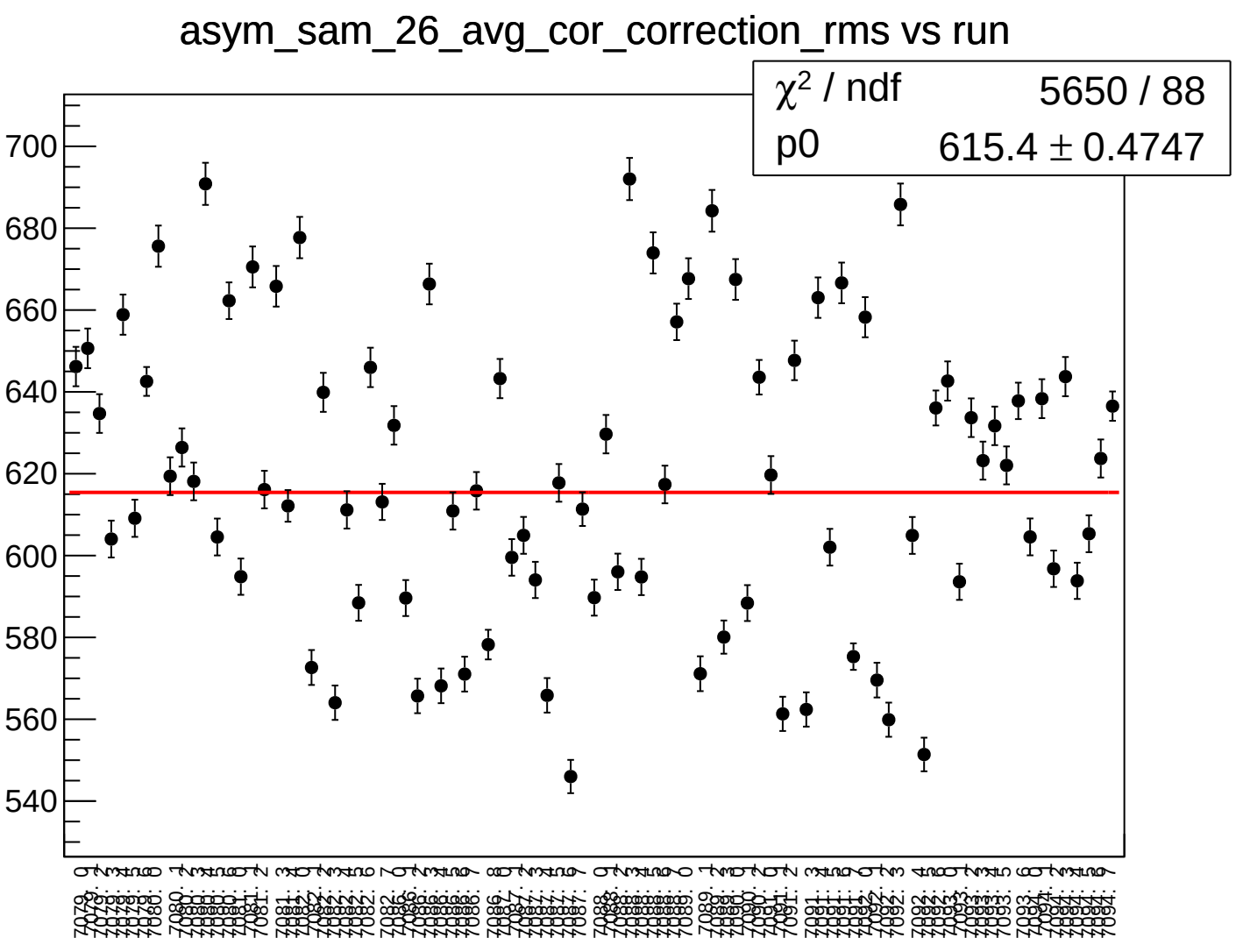

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 5650 / 88
p0 615.4 ± 0.4747
700
680
660
640
620
600
580
560
540

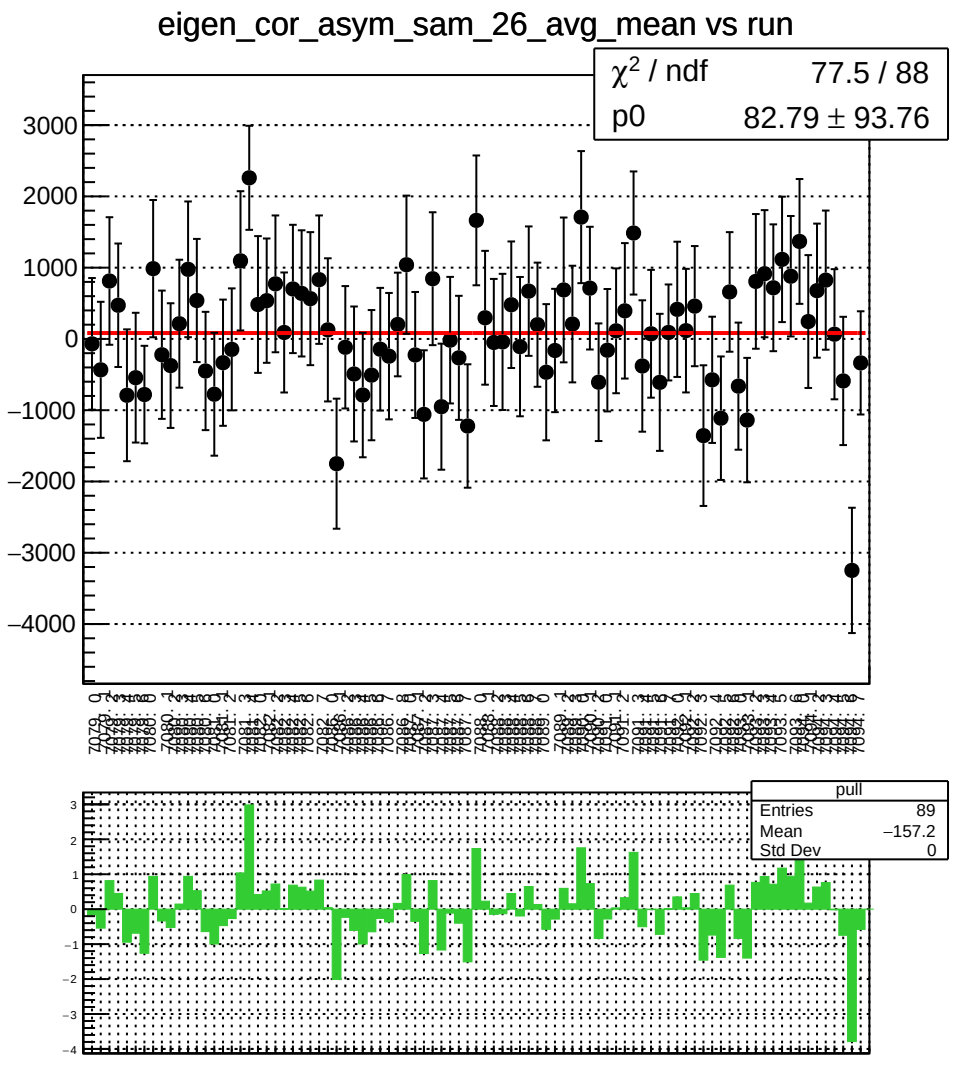

cor_asym_sam_26_avg_mean vs run
χ² / ndf 77.5 / 88
p0 82.79 ± 93.76
pull
Entries 89
Mean −157.2
Std Dev 0
pull1D
Entries 89
Mean 0.003454
Std Dev 0.9332

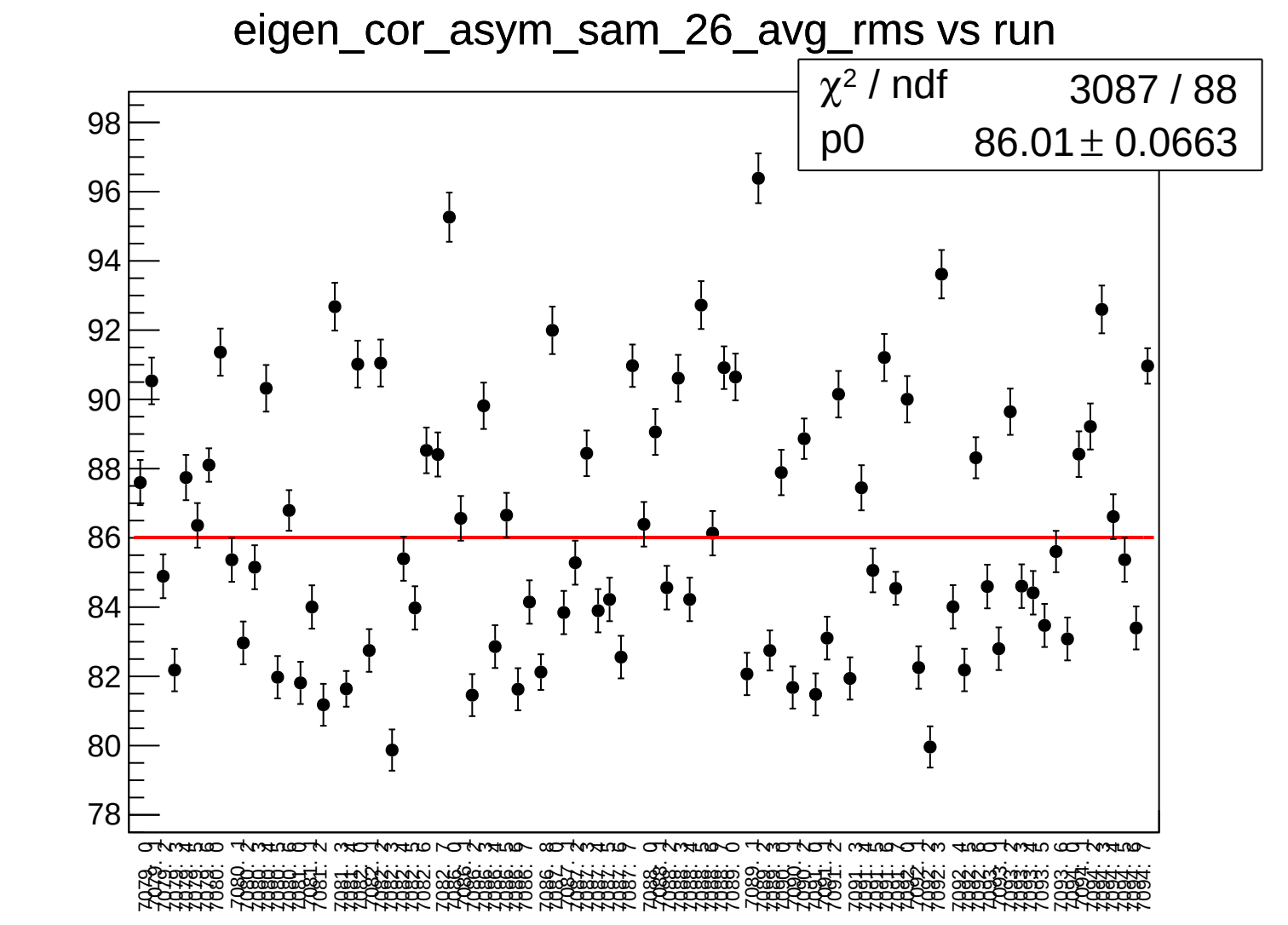

cor_asym_sam_26_avg_rms vs run
χ² / ndf 3087 / 88
p0 86.01 ± 0.0663
98
96
94
92
90
88
86
84
82
80
78

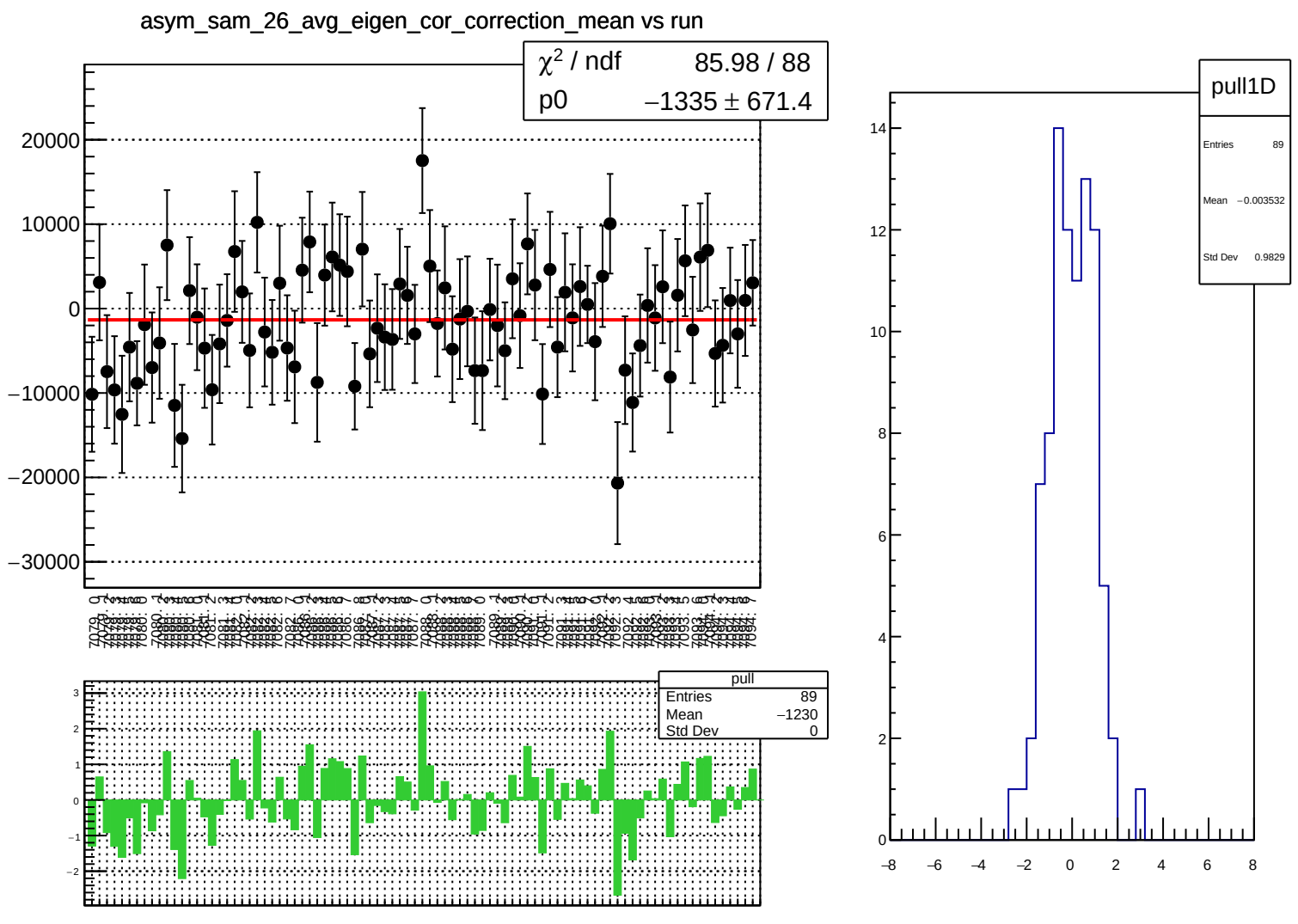

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 85.98 / 88
p0 −1335 ± 671.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1230
Std Dev 0
3
2
1
0
−1
−2

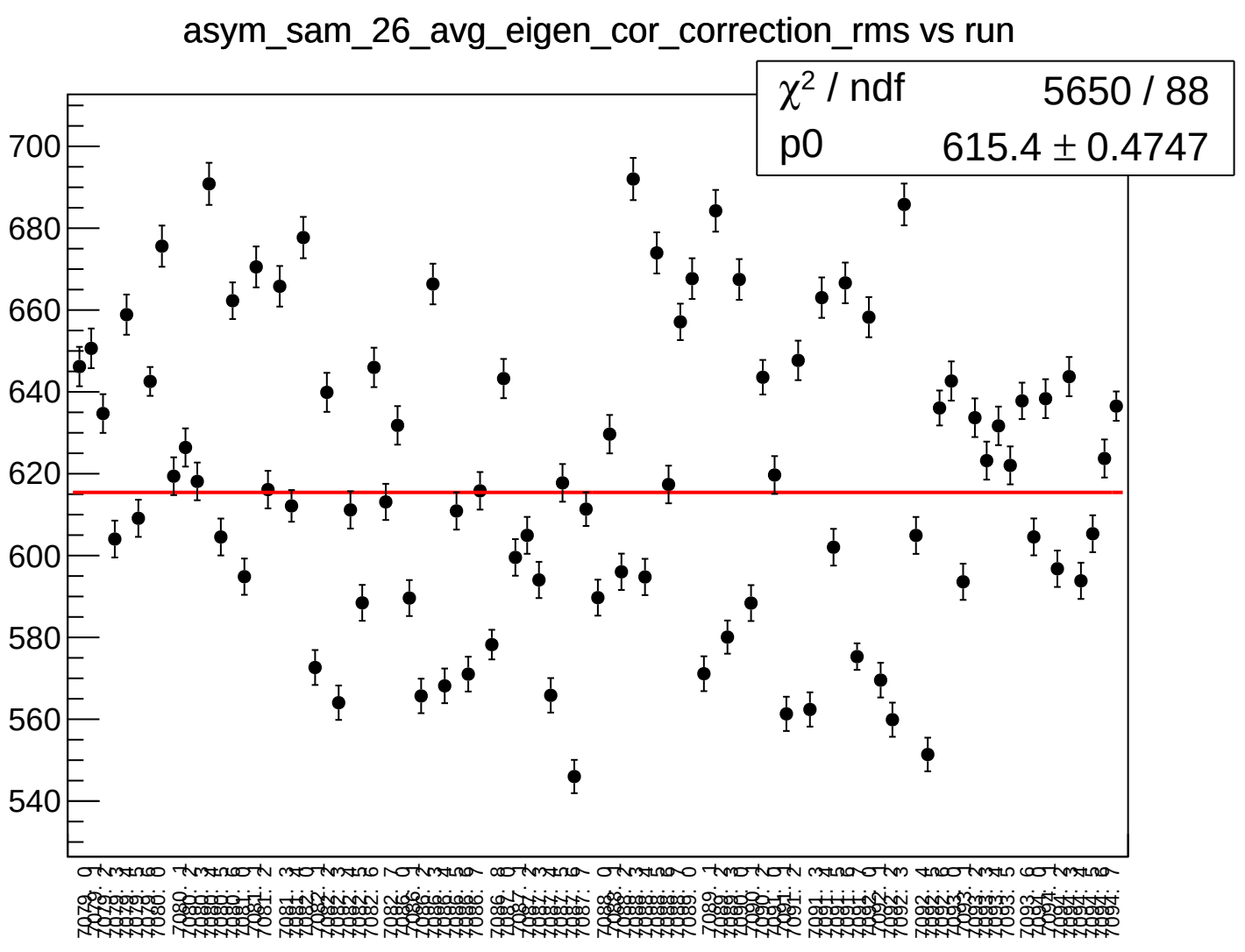

pull1D
Entries 89
Mean −0.003532
Std Dev 0.9829
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

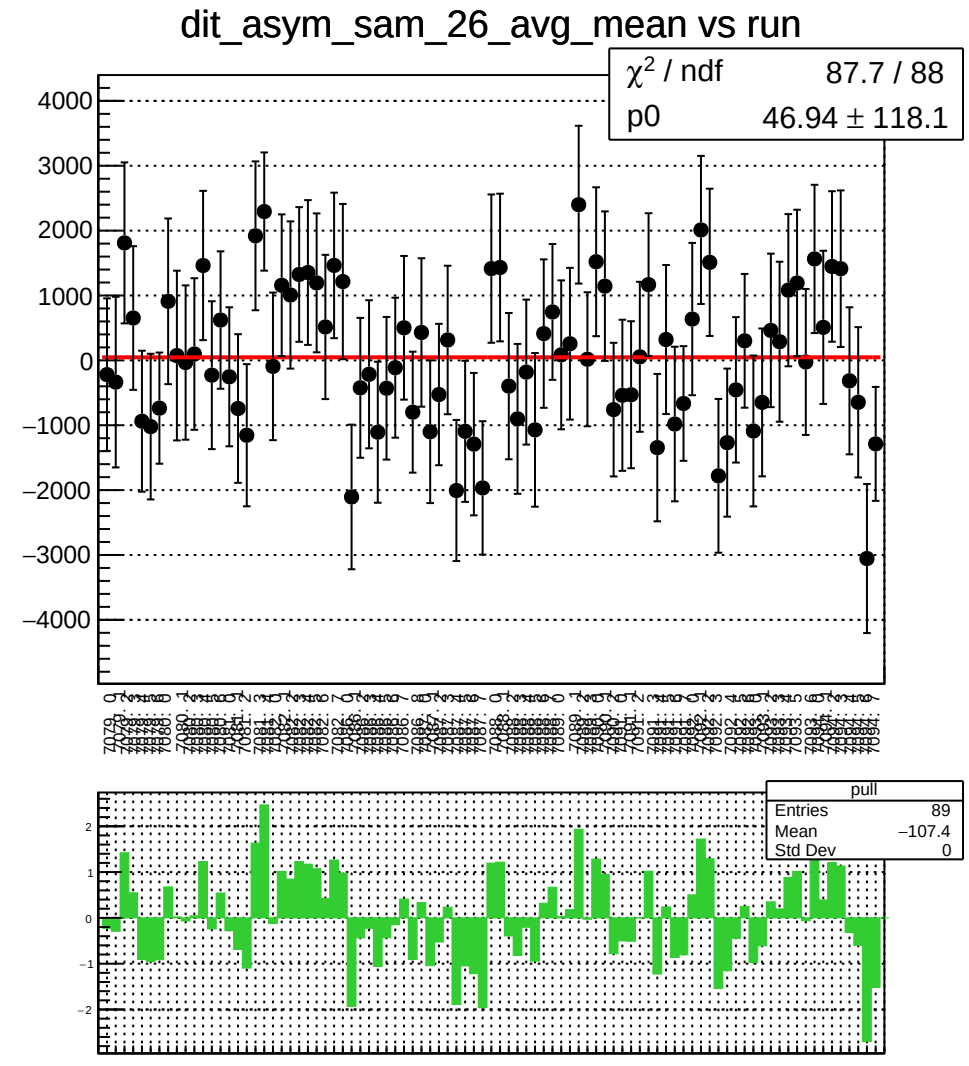

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 5650 / 88
p0 615.4 ± 0.4747
700
680
660
640
620
600
580
560
540

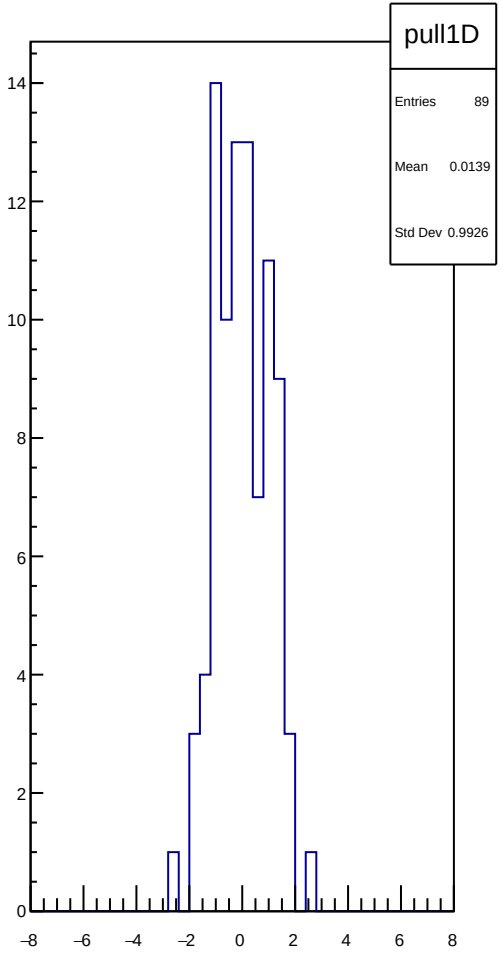

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 77.5 / 88
p0 82.79 ± 93.76
pull
Entries 89
Mean −157.2
Std Dev 0
pull1D
Entries 89
Mean 0.003454
Std Dev 0.9332

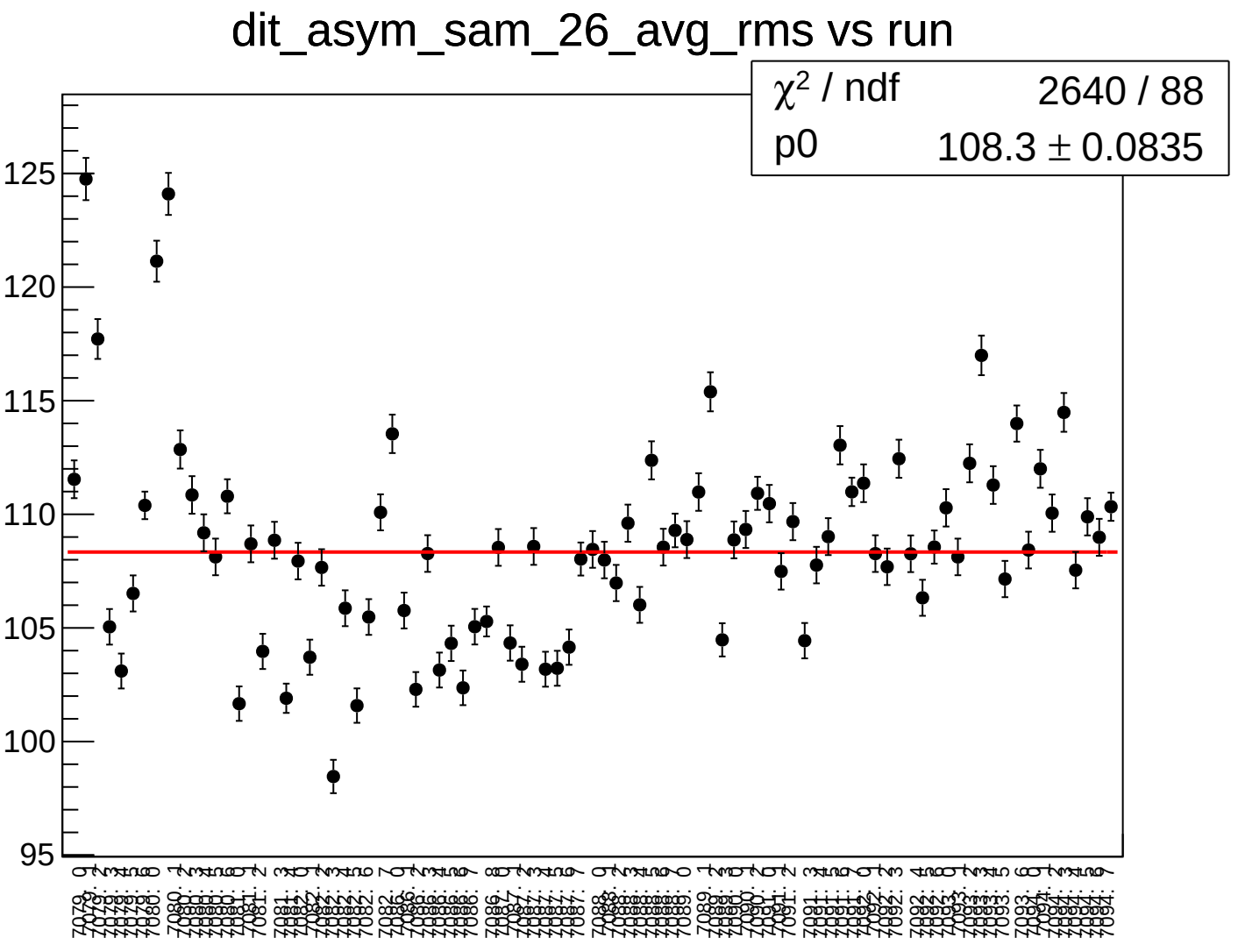

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3087 / 88
p0 86.01 ± 0.0663
98
96
94
92
90
88
86
84
82
80
78

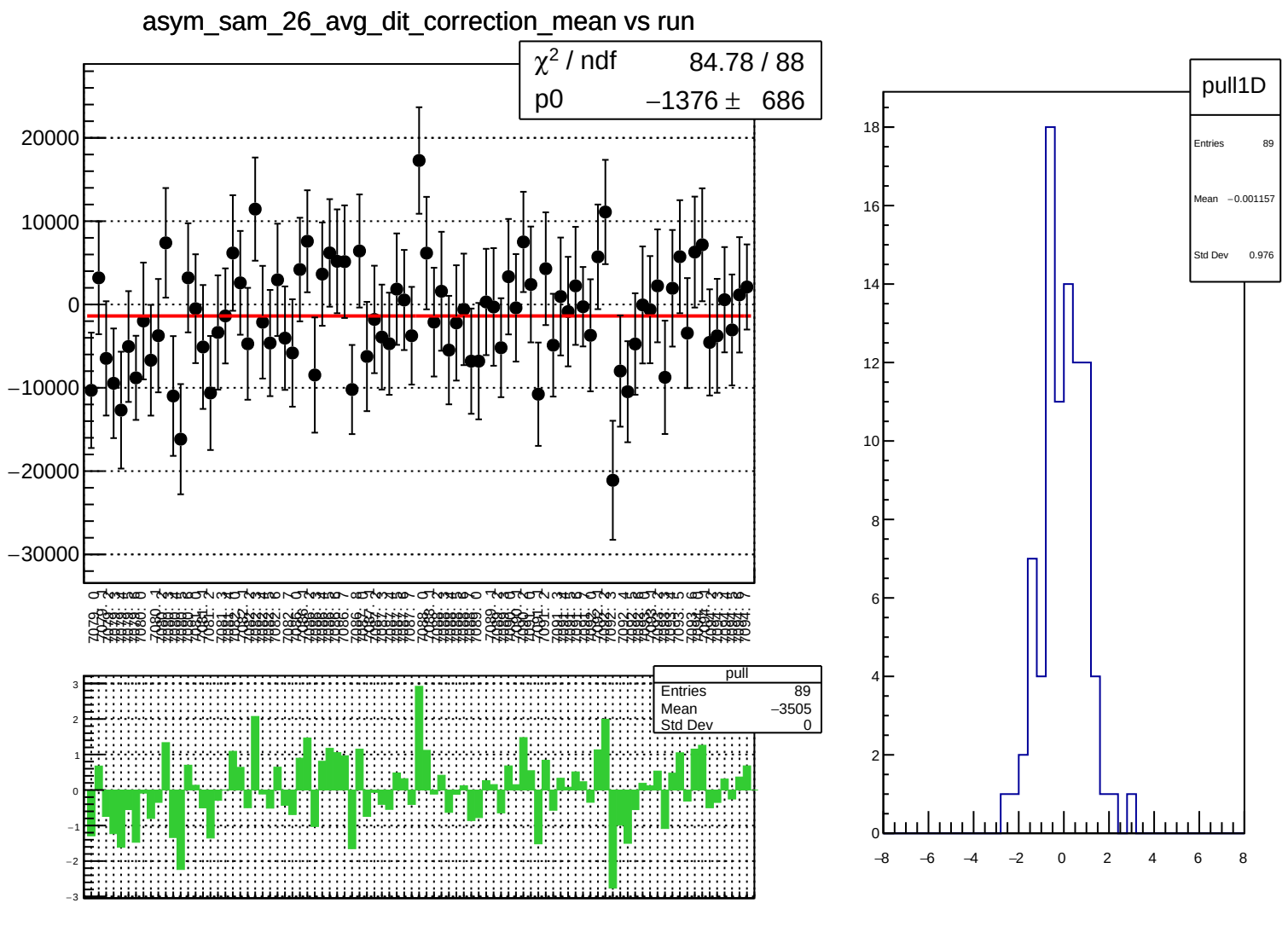

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.98 / 88
p0 −1335 ± 671.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1230
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.003532
Std Dev 0.9829
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

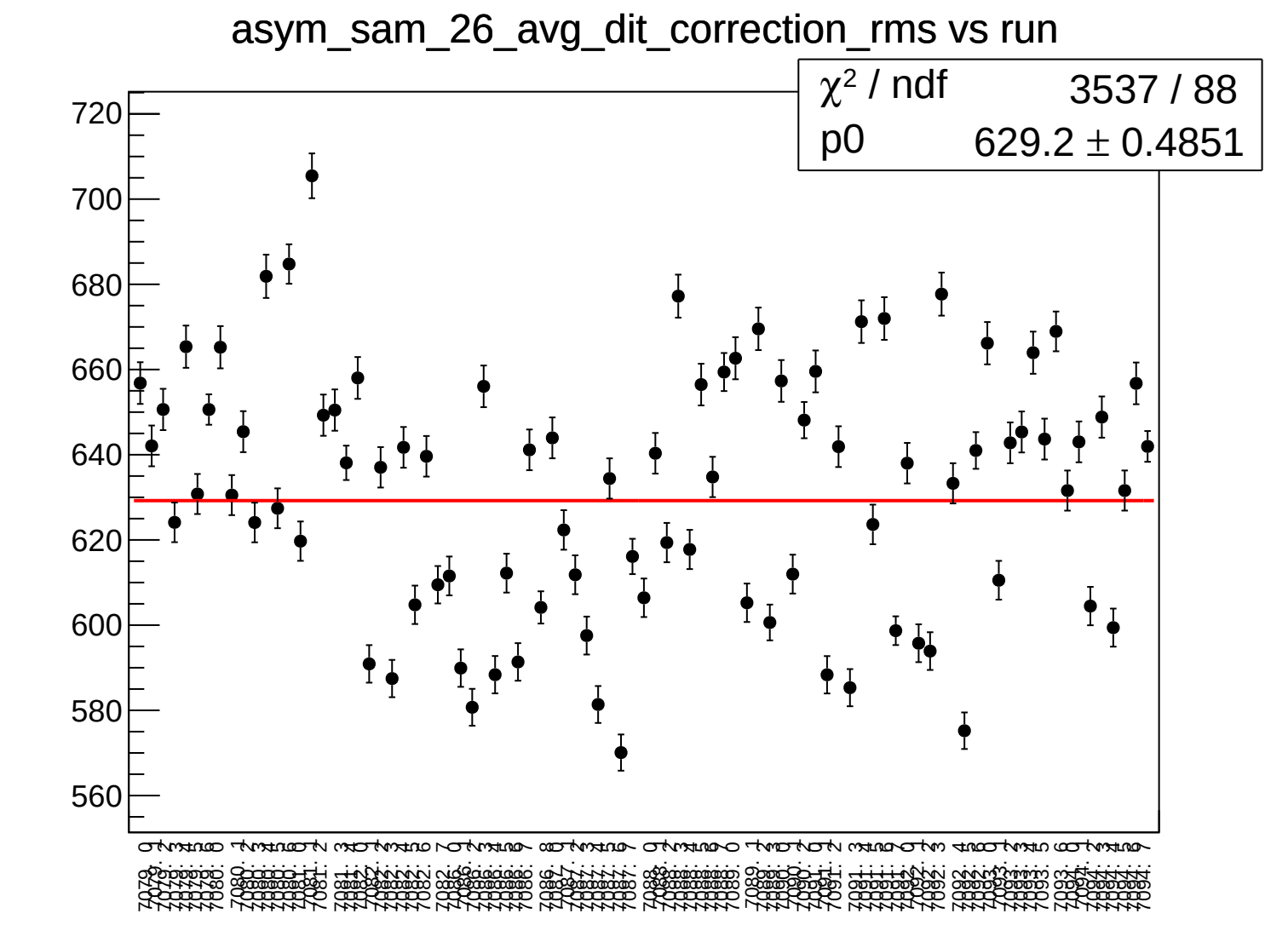

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 5650 / 88
p0 615.4 ± 0.4747
700
680
660
640
620
600
580
560
540

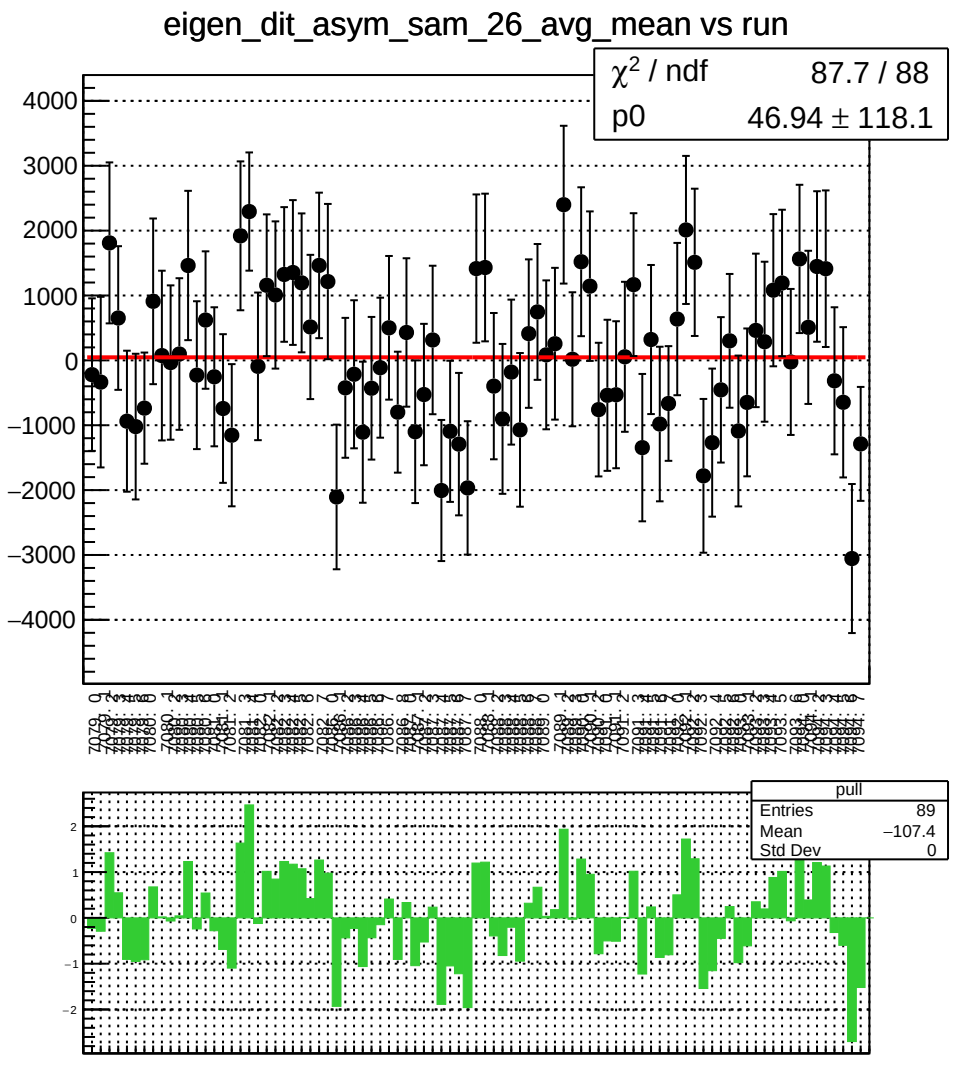

dit_asym_sam_26_avg_mean vs run
χ² / ndf 87.7 / 88
p0 46.94 ± 118.1
pull
Entries 89
Mean −107.4
Std Dev 0

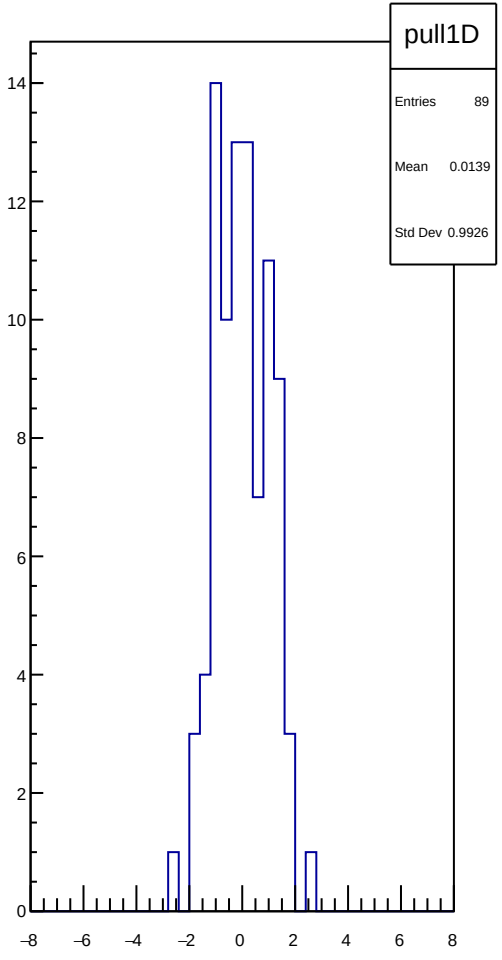

pull1D
Entries 89
Mean 0.0139
Std Dev 0.9926

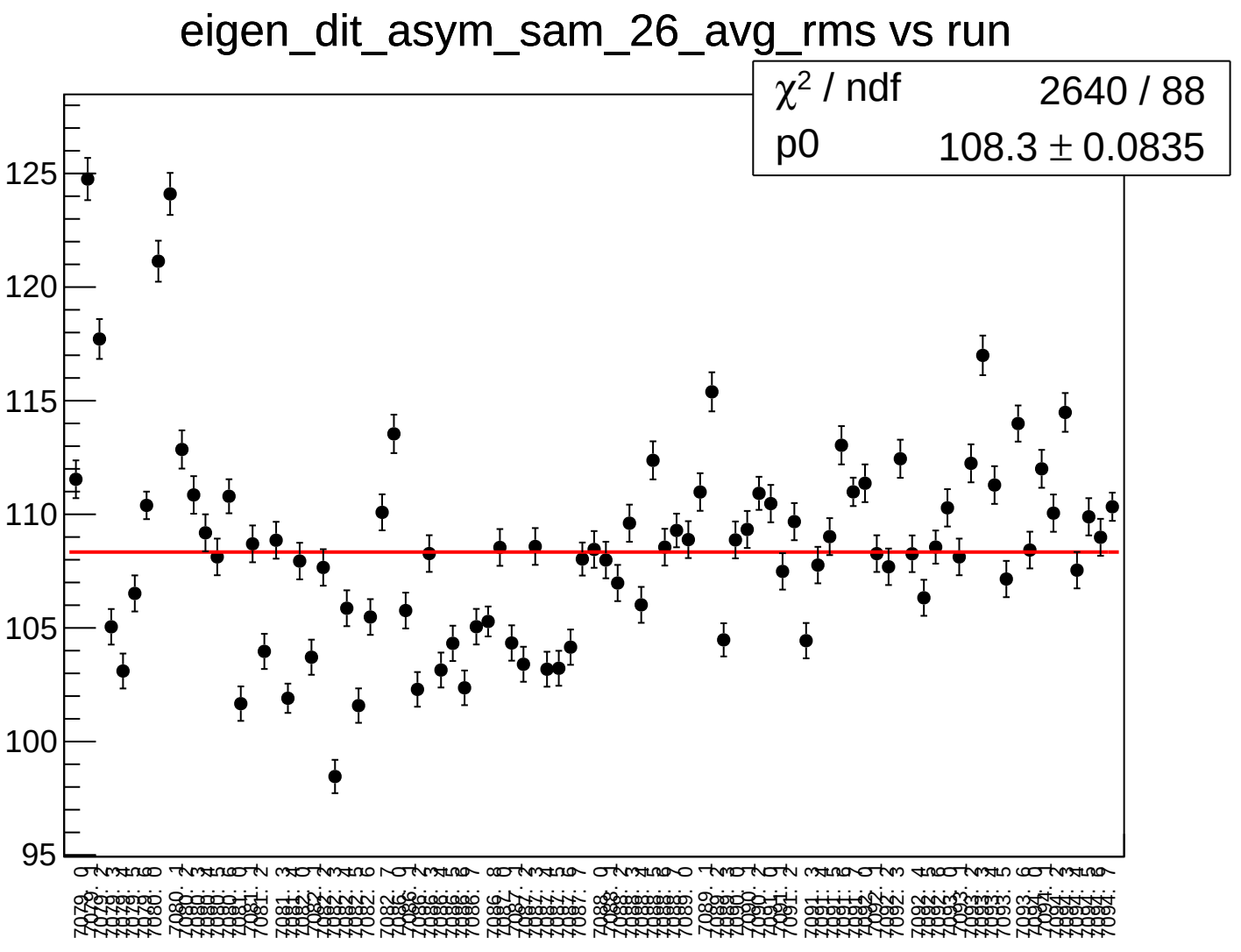

dit_asym_sam_26_avg_rms vs run
χ² / ndf 2640 / 88
p0 108.3 ± 0.0835
125
120
115
110
105
100
95

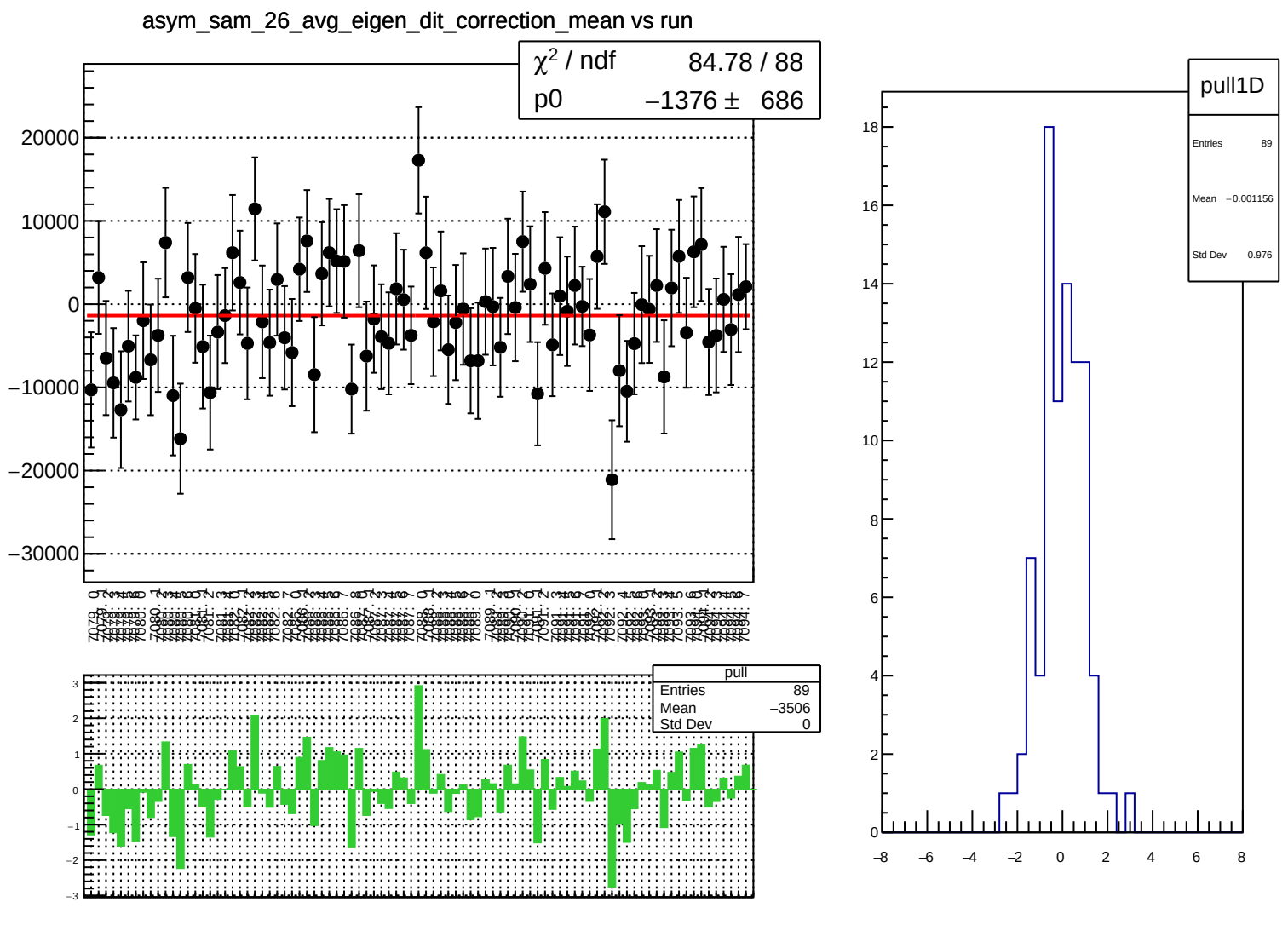

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 84.78 / 88
p0 −1376 ± 686
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −3505
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.001157
Std Dev 0.976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

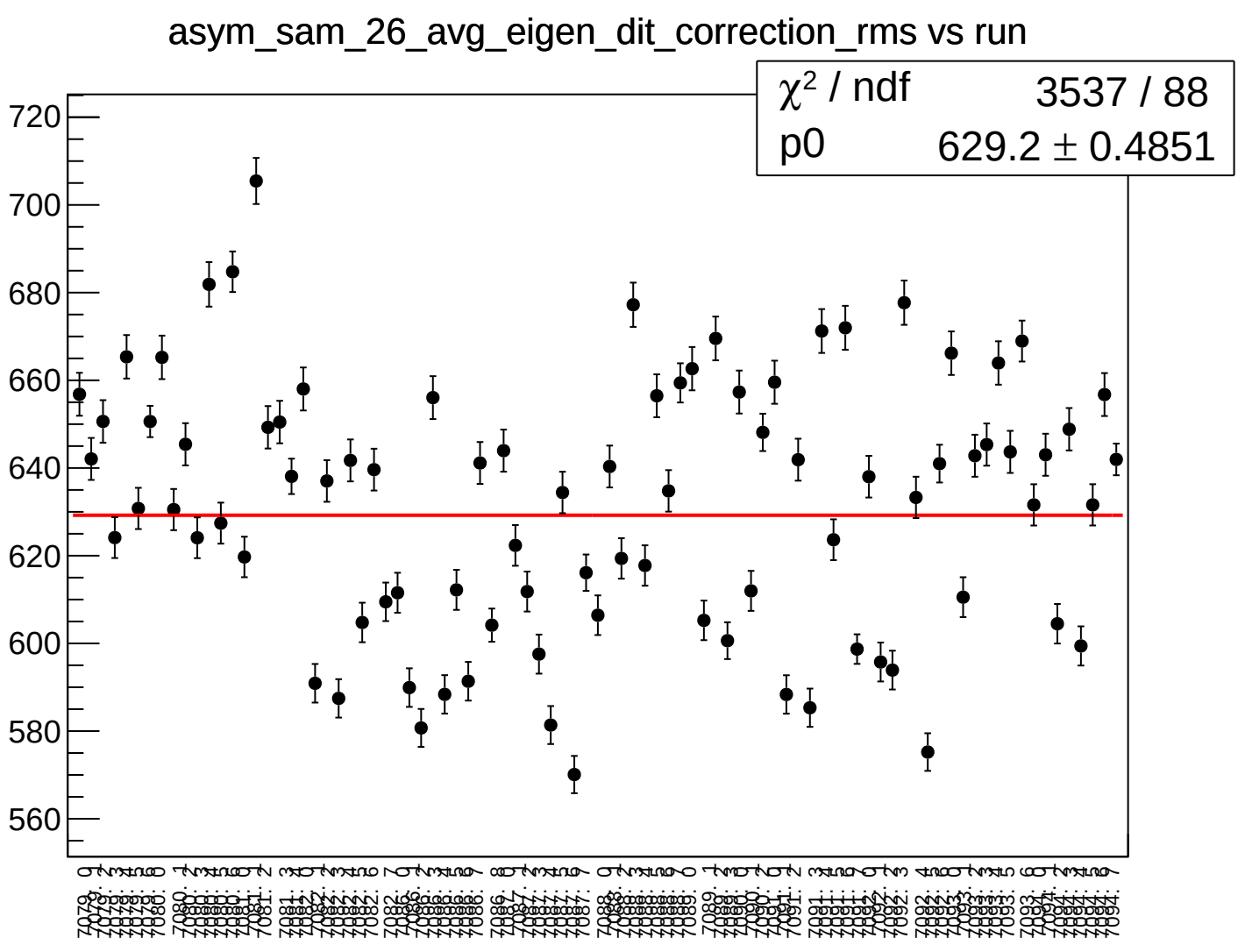

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 3537 / 88
p0 629.2 ± 0.4851
720
700
680
660
640
620
600
580
560

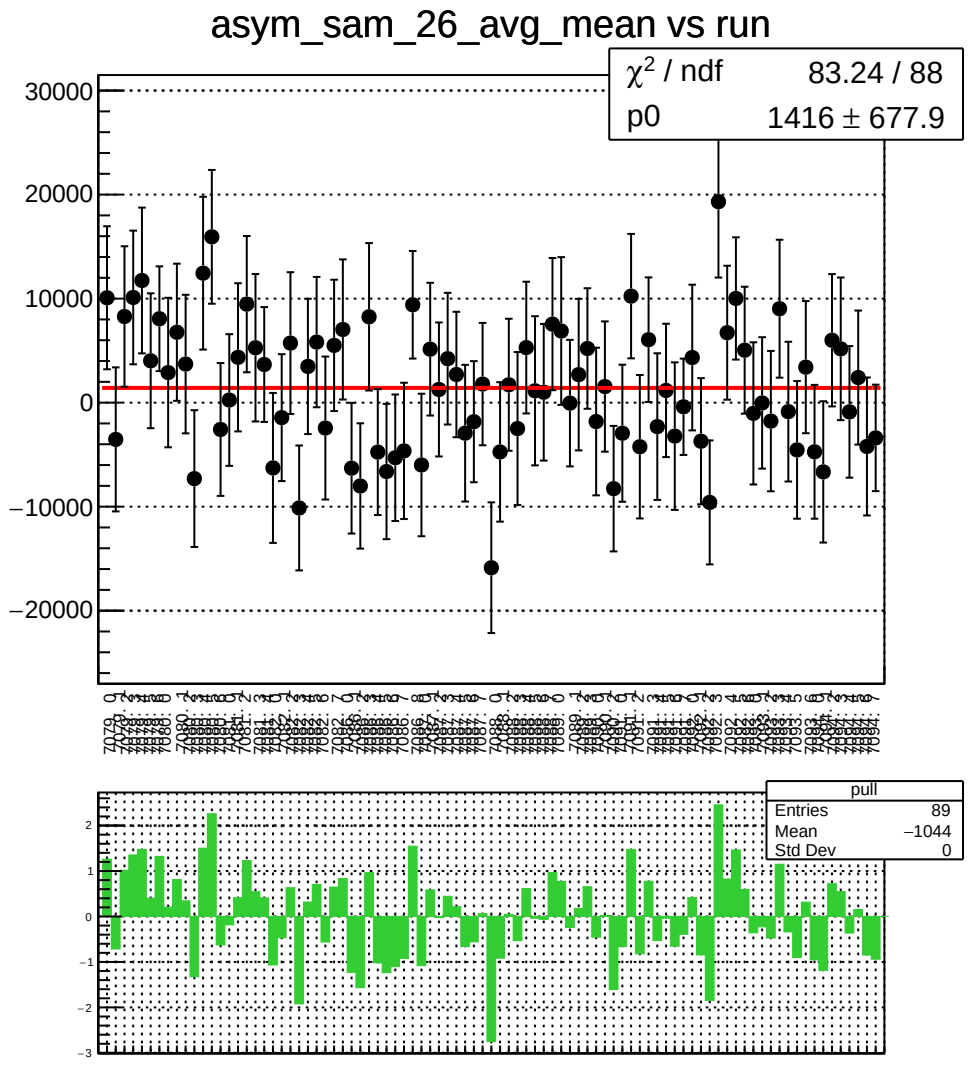

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 87.7 / 88
p0 46.94 ± 118.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean −107.4
Std Dev 0
2
1
0
−1
−2

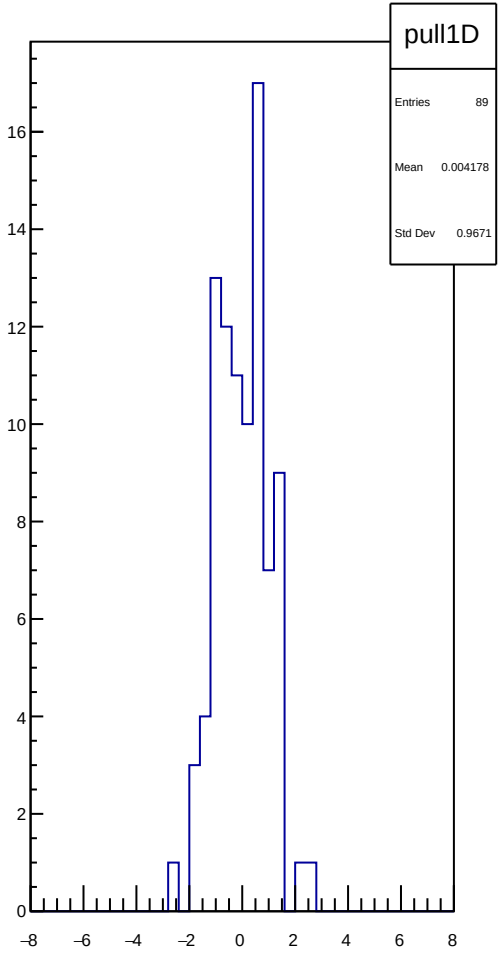

pull1D
Entries 89
Mean 0.0139
Std Dev 0.9926
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

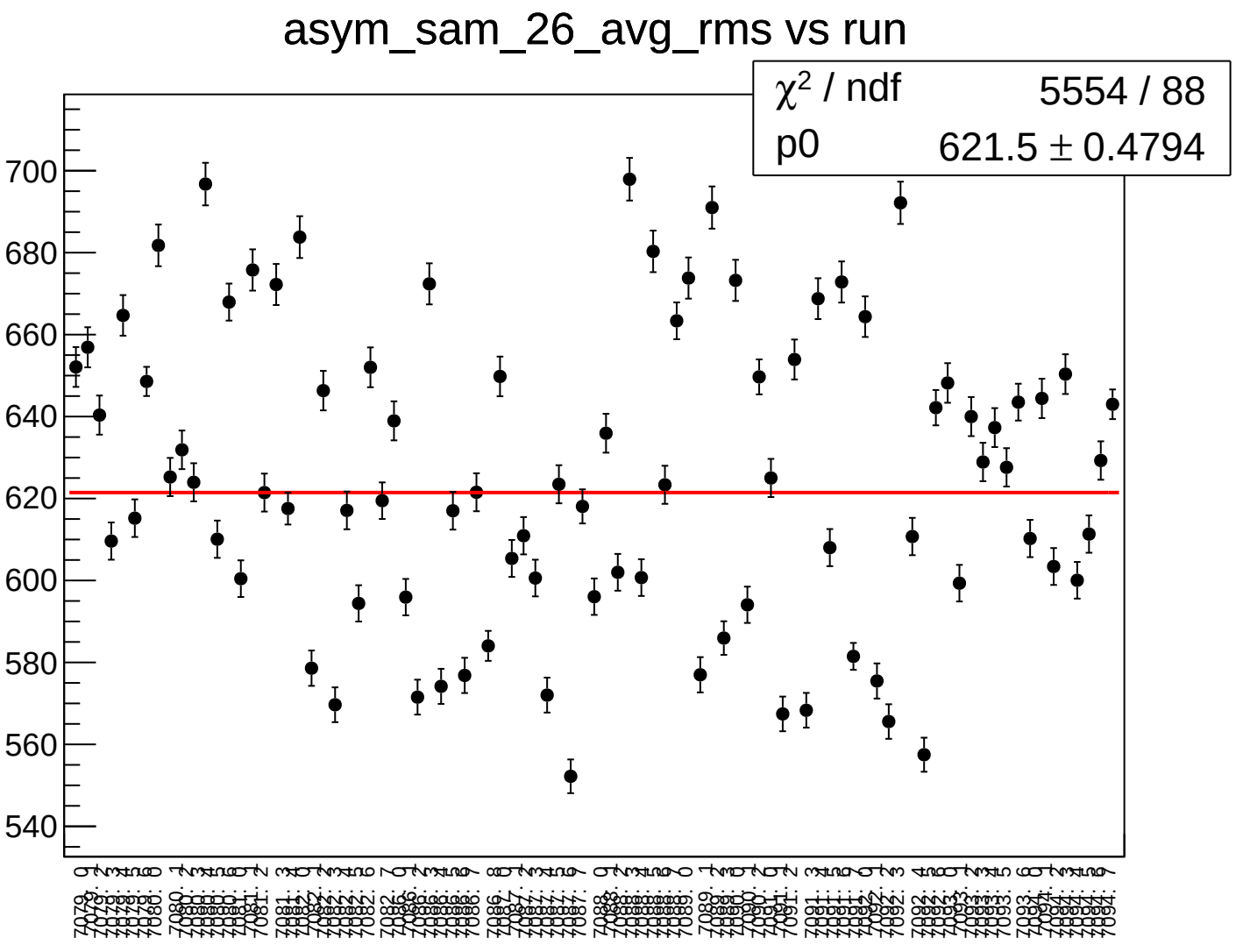

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 2640 / 88
p0 108.3 ± 0.0835
125
120
115
110
105
100
95

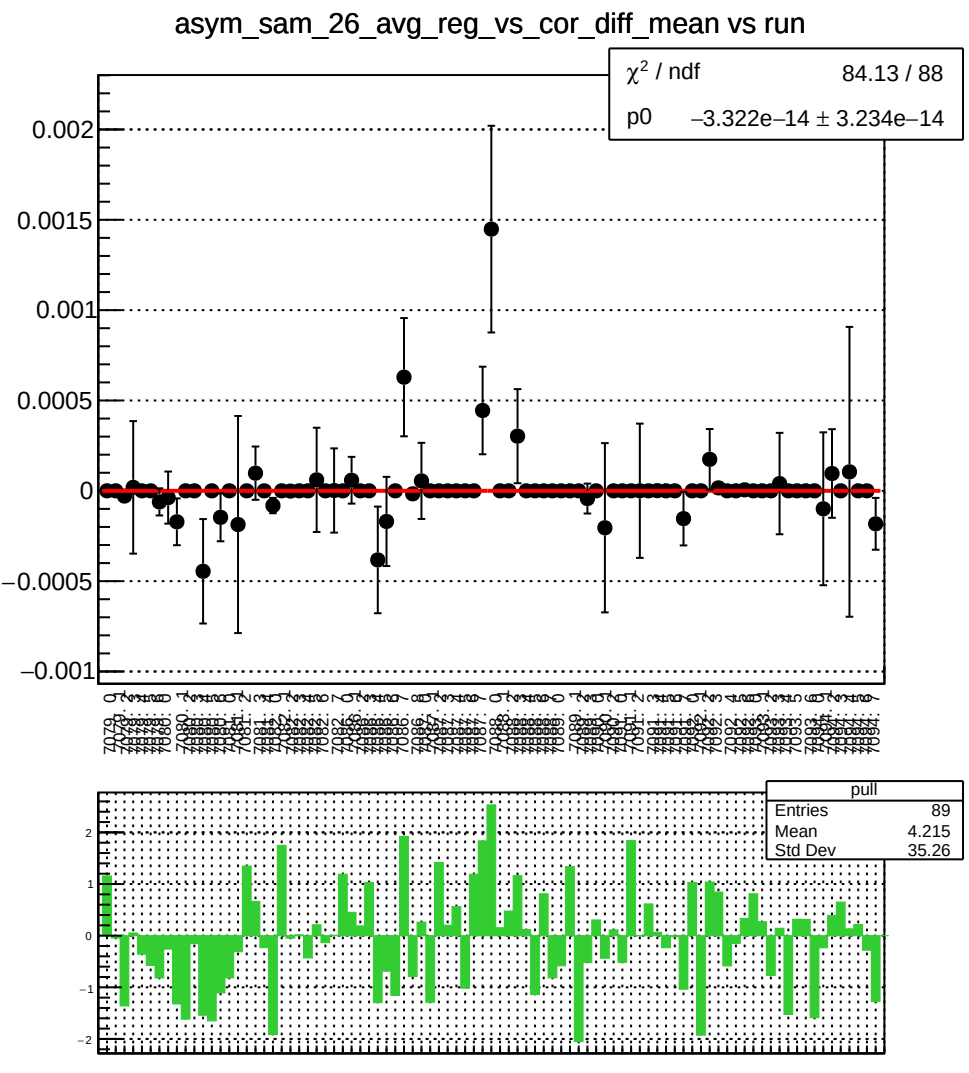

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.78 / 88
p0 −1376 ± 686
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −3506
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.001156
Std Dev 0.976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

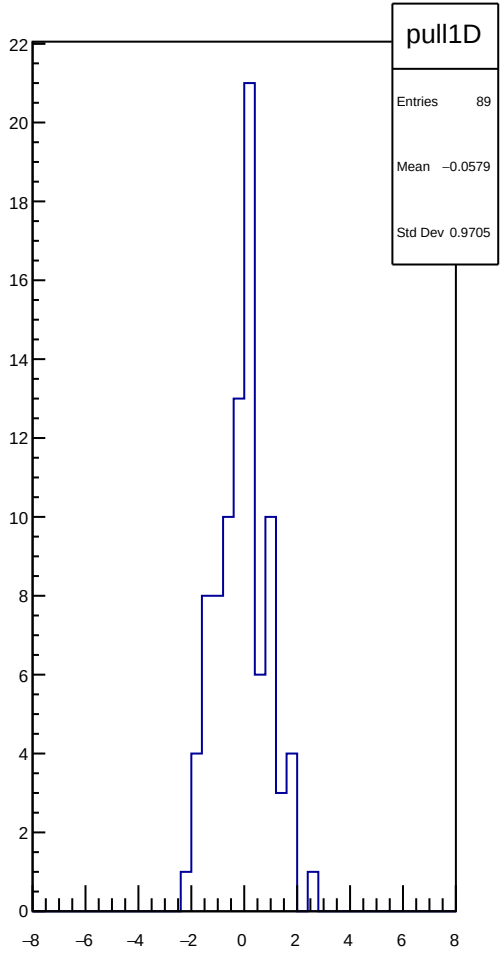

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 3537 / 88
p0 629.2 ± 0.4851
720
700
680
660
640
620
600
580
560

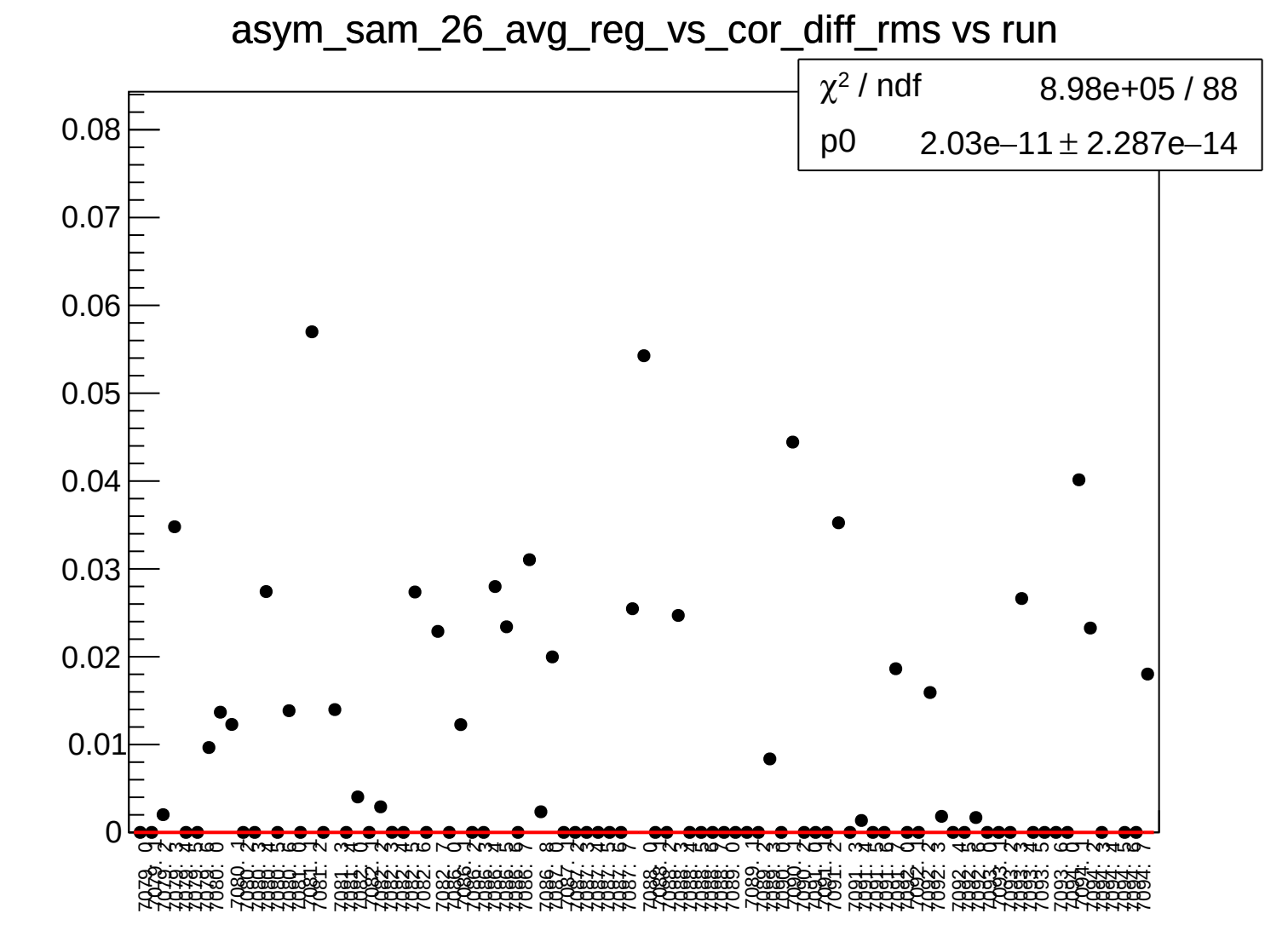

asym_sam_26_avg_mean vs run
χ² / ndf 83.24 / 88
p0 1416 ± 677.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −1044
Std Dev 0
2
1
0
−1
−2
−3

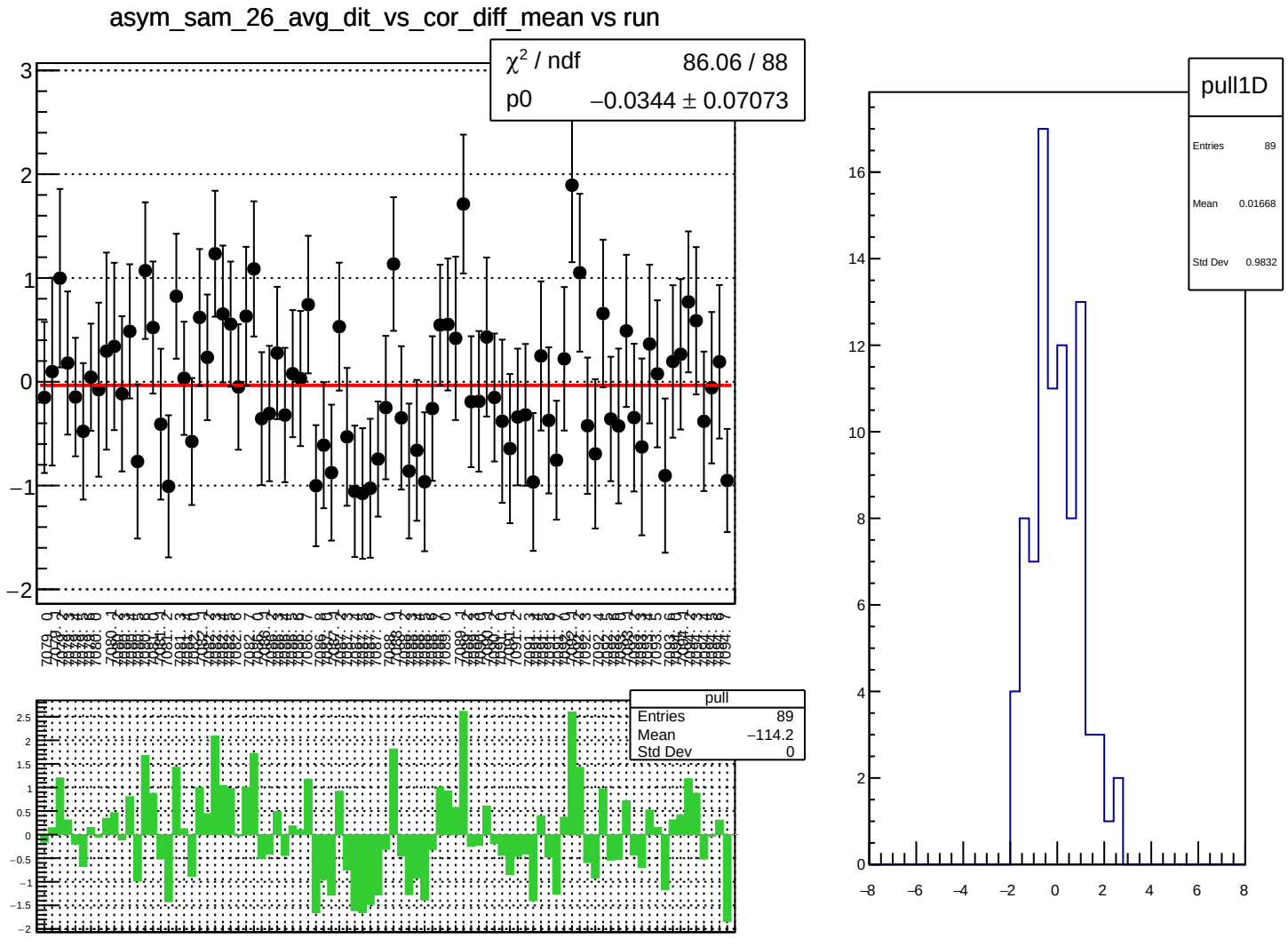

pull1D
Entries 89
Mean 0.004178
Std Dev 0.9671
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

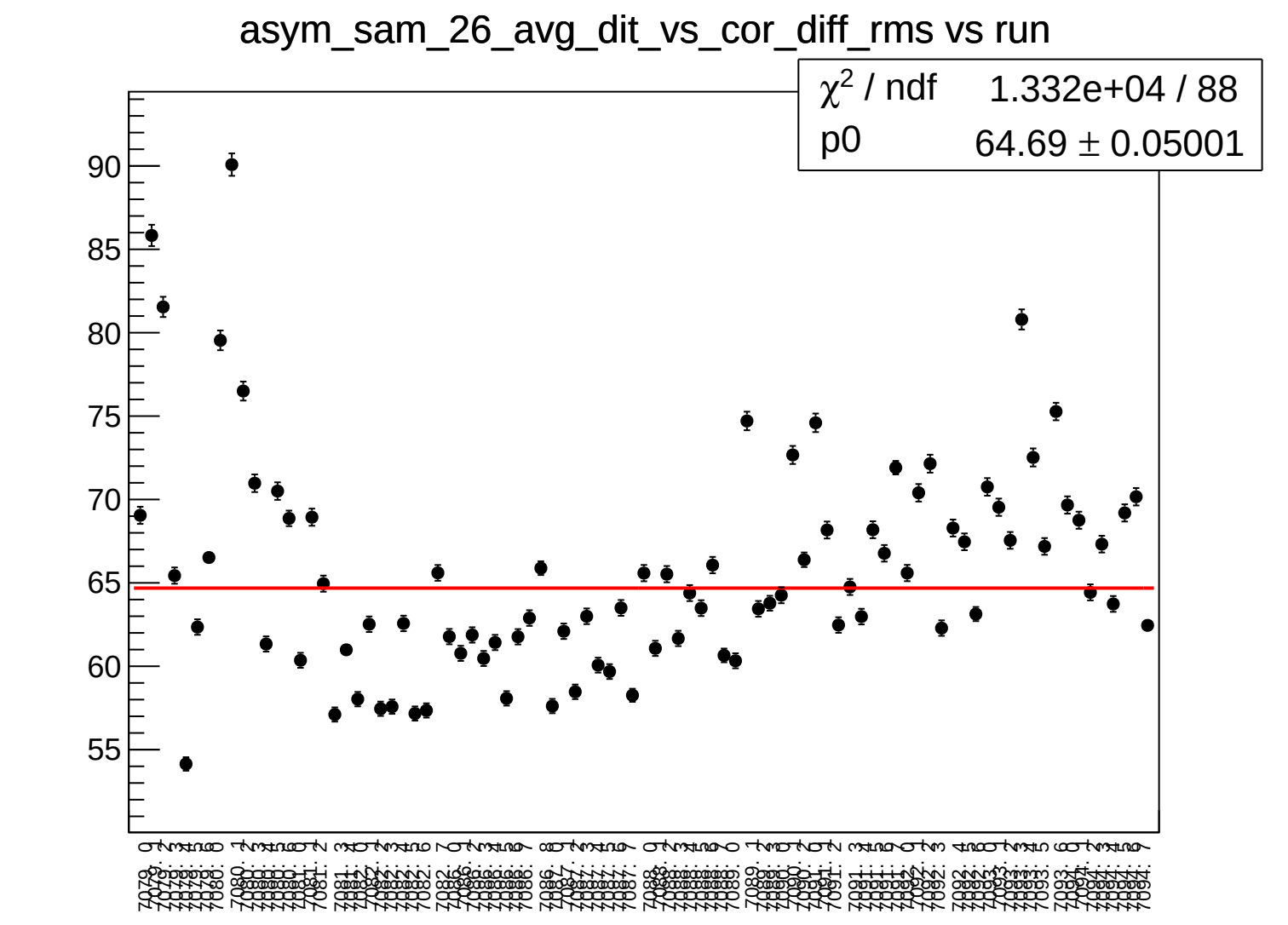

asym_sam_26_avg_rms vs run
χ² / ndf 5554 / 88
p0 621.5 ± 0.4794
700
680
660
640
620
600
580
560
540

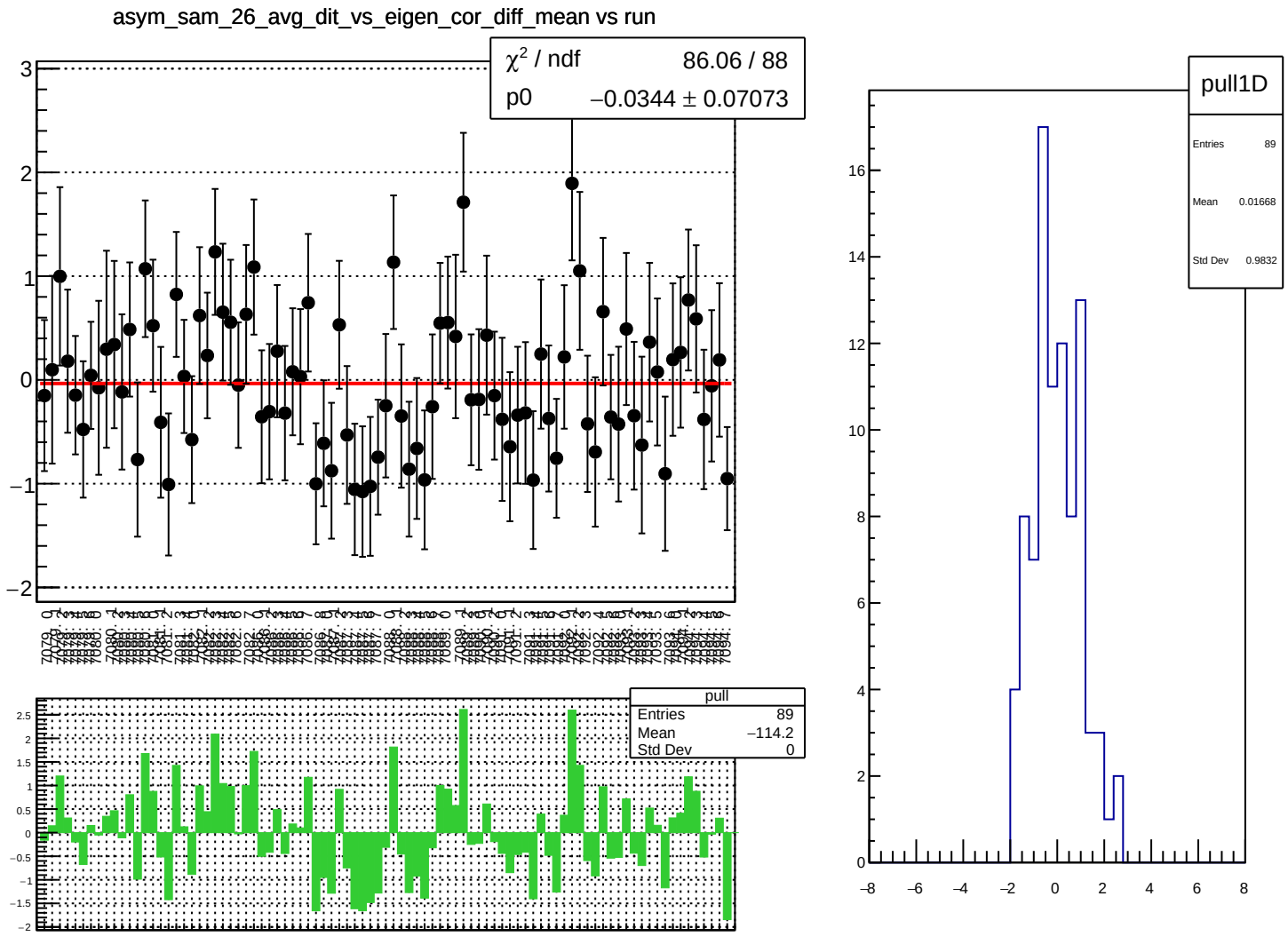

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.13 / 88
p0 −3.322e−14 ± 3.234e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 4.215
Std Dev 35.26
2
1
0
−1
−2

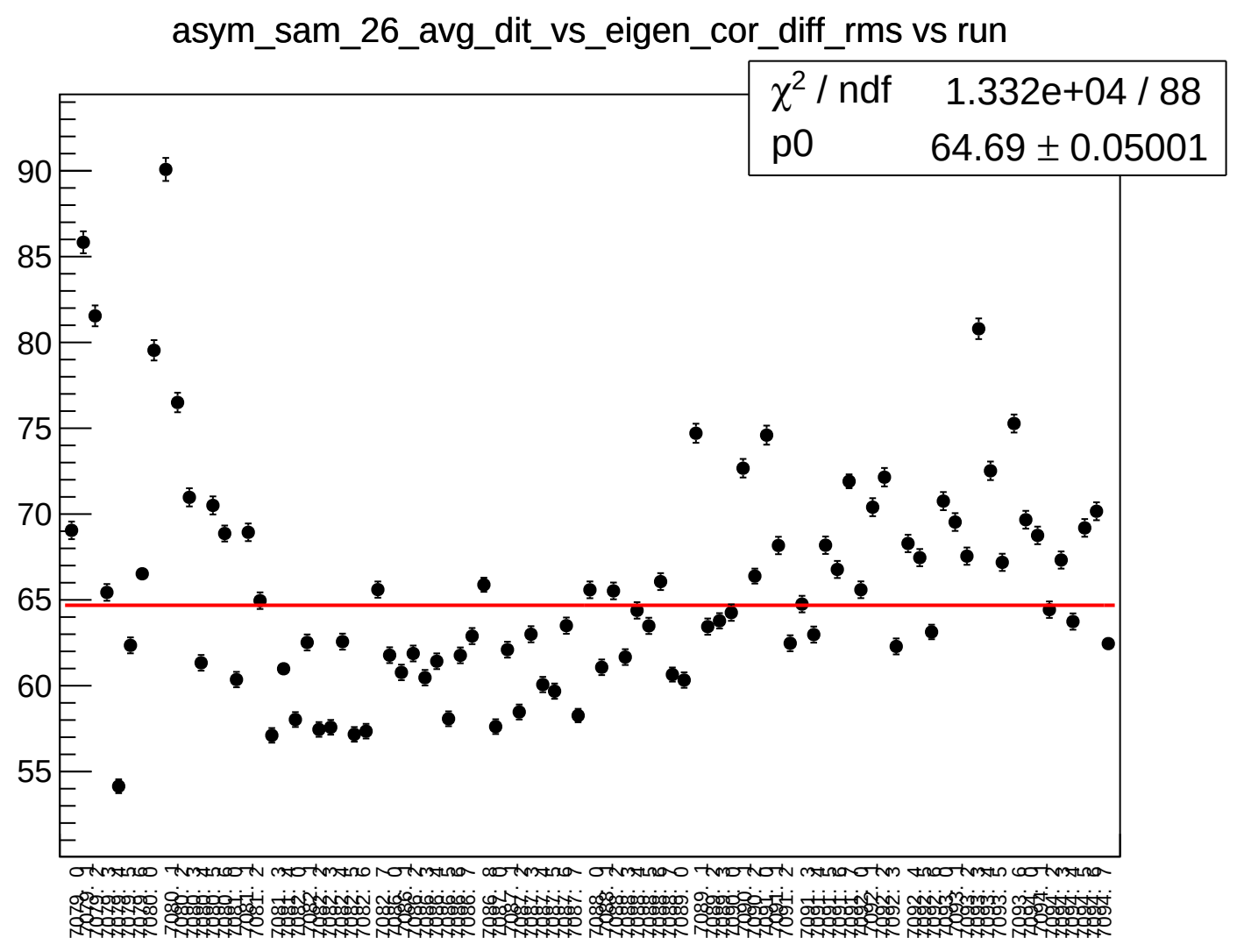

pull1D
Entries 89
Mean −0.0579
Std Dev 0.9705
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

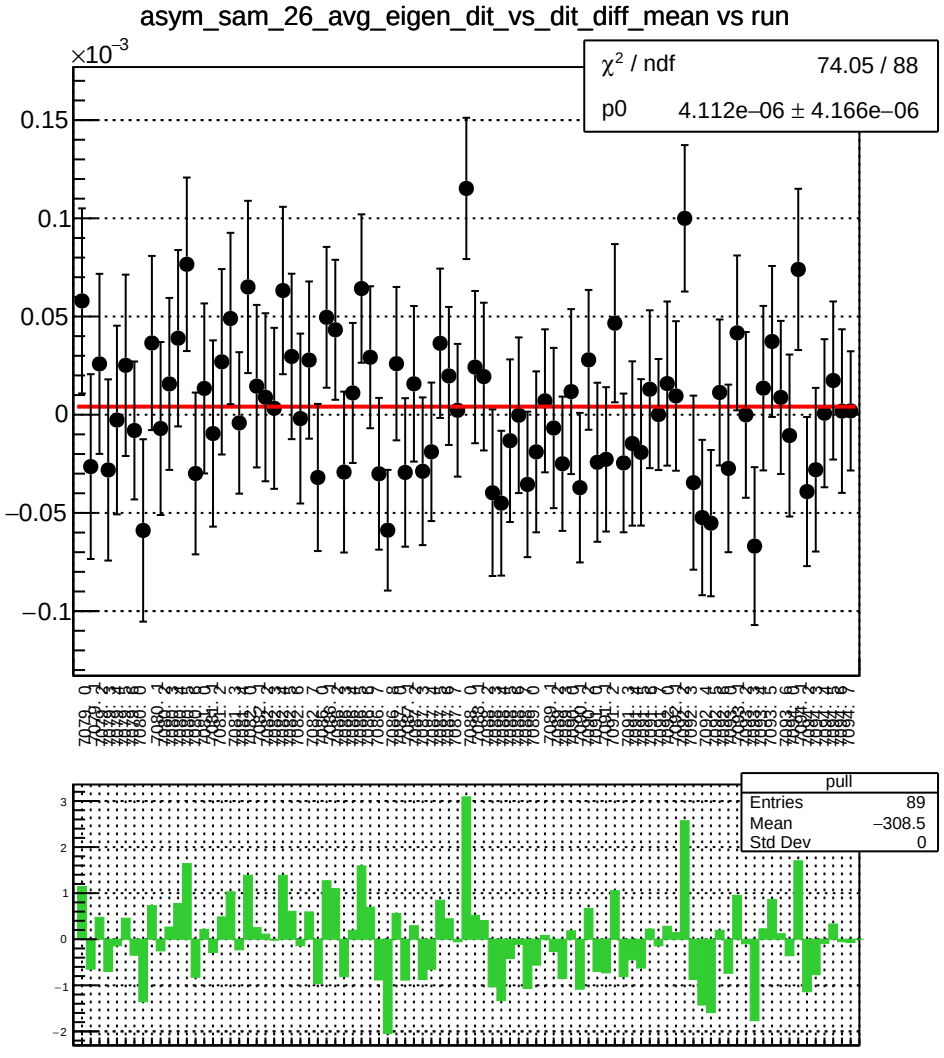

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.98e+05 / 88
p0 2.03e−11 ± 2.287e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

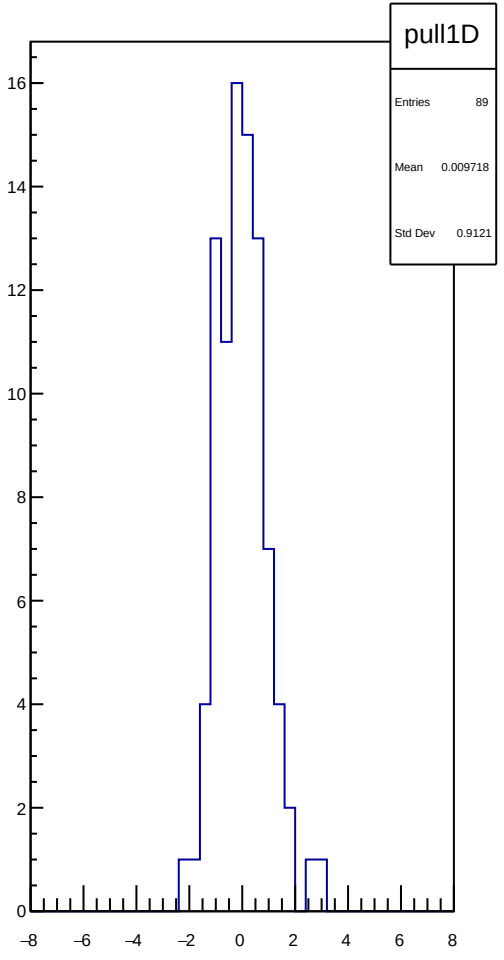

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.06 / 88
p0 −0.0344 ± 0.07073
pull
Entries 89
Mean −114.2
Std Dev 0
pull1D
Entries 89
Mean 0.01668
Std Dev 0.9832

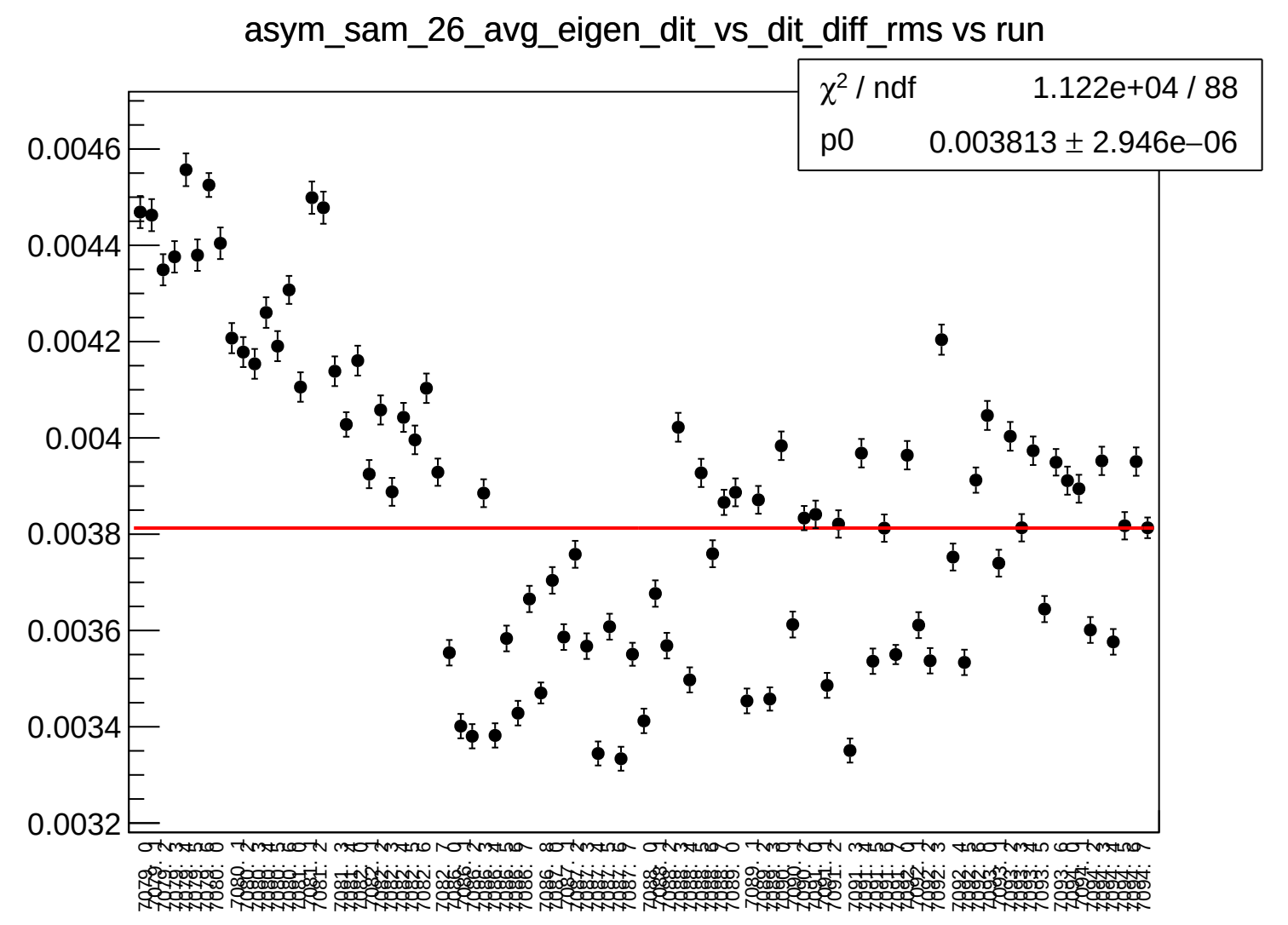

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.332e+04 / 88
p0 64.69 ± 0.05001
90
85
80
75
70
65
60
55

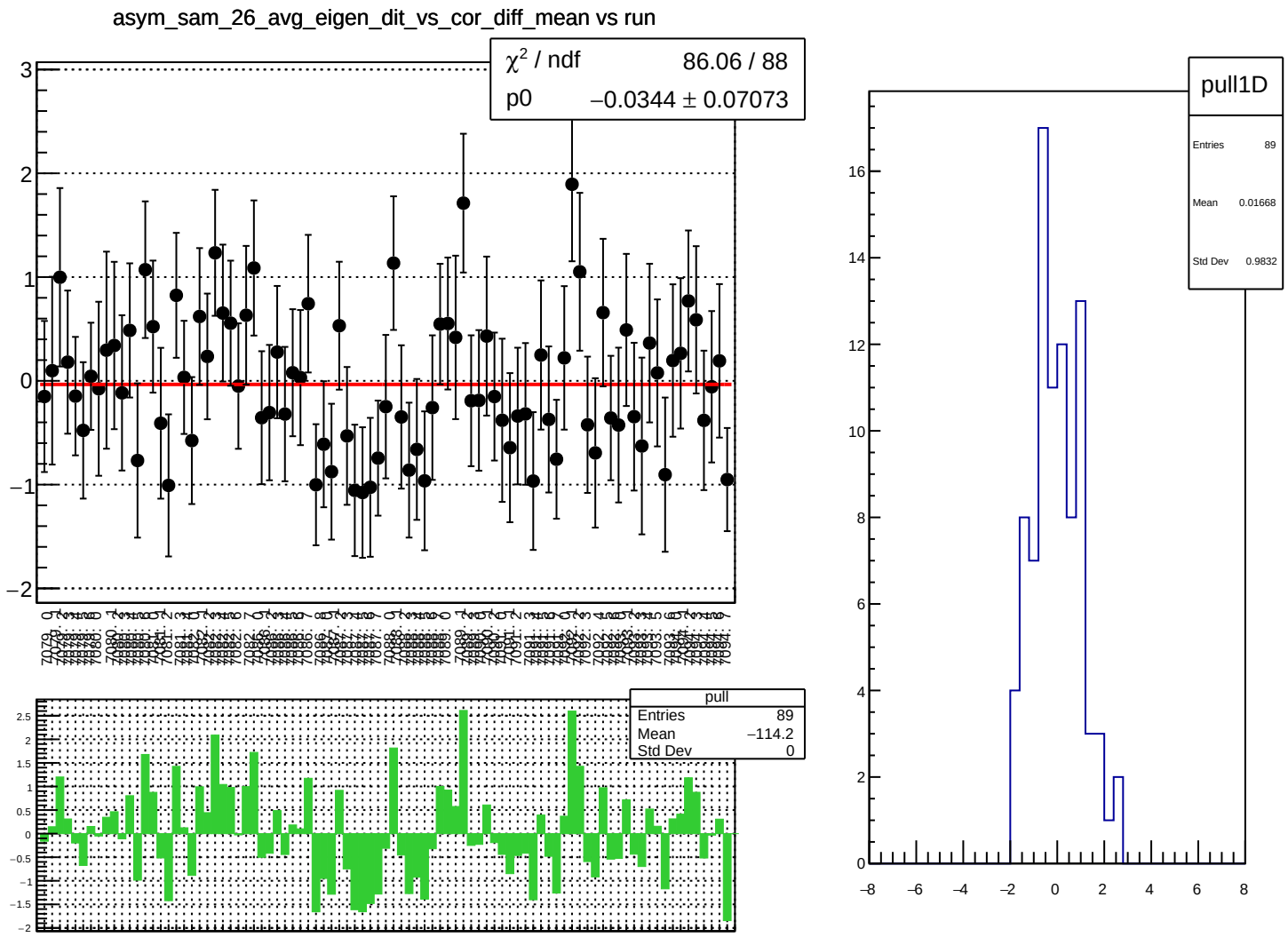

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.06 / 88
p0 −0.0344 ± 0.07073
pull
Entries 89
Mean −114.2
Std Dev 0
pull1D
Entries 89
Mean 0.01668
Std Dev 0.9832

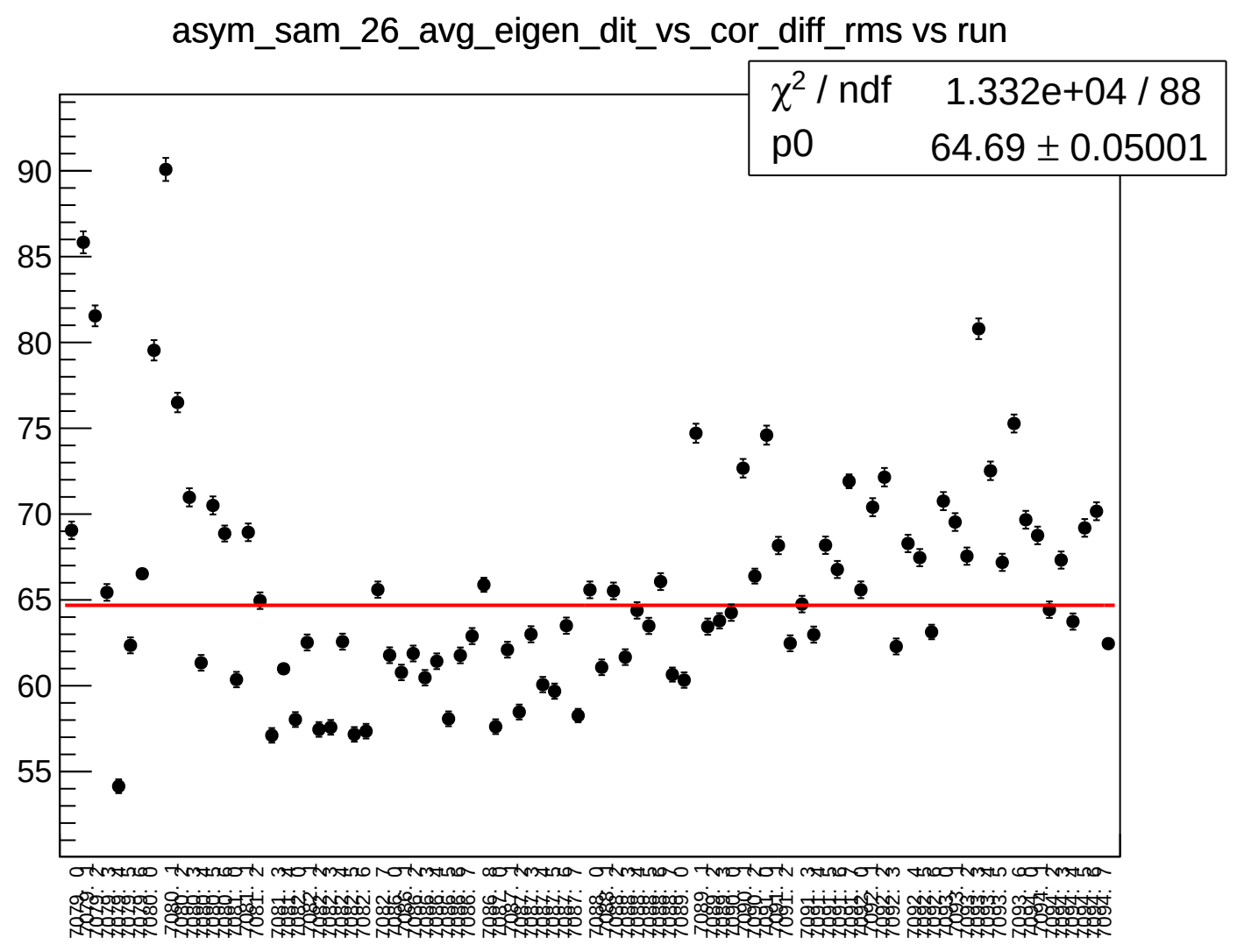

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.332e+04 / 88
p0 64.69 ± 0.05001
90
85
80
75
70
65
60
55

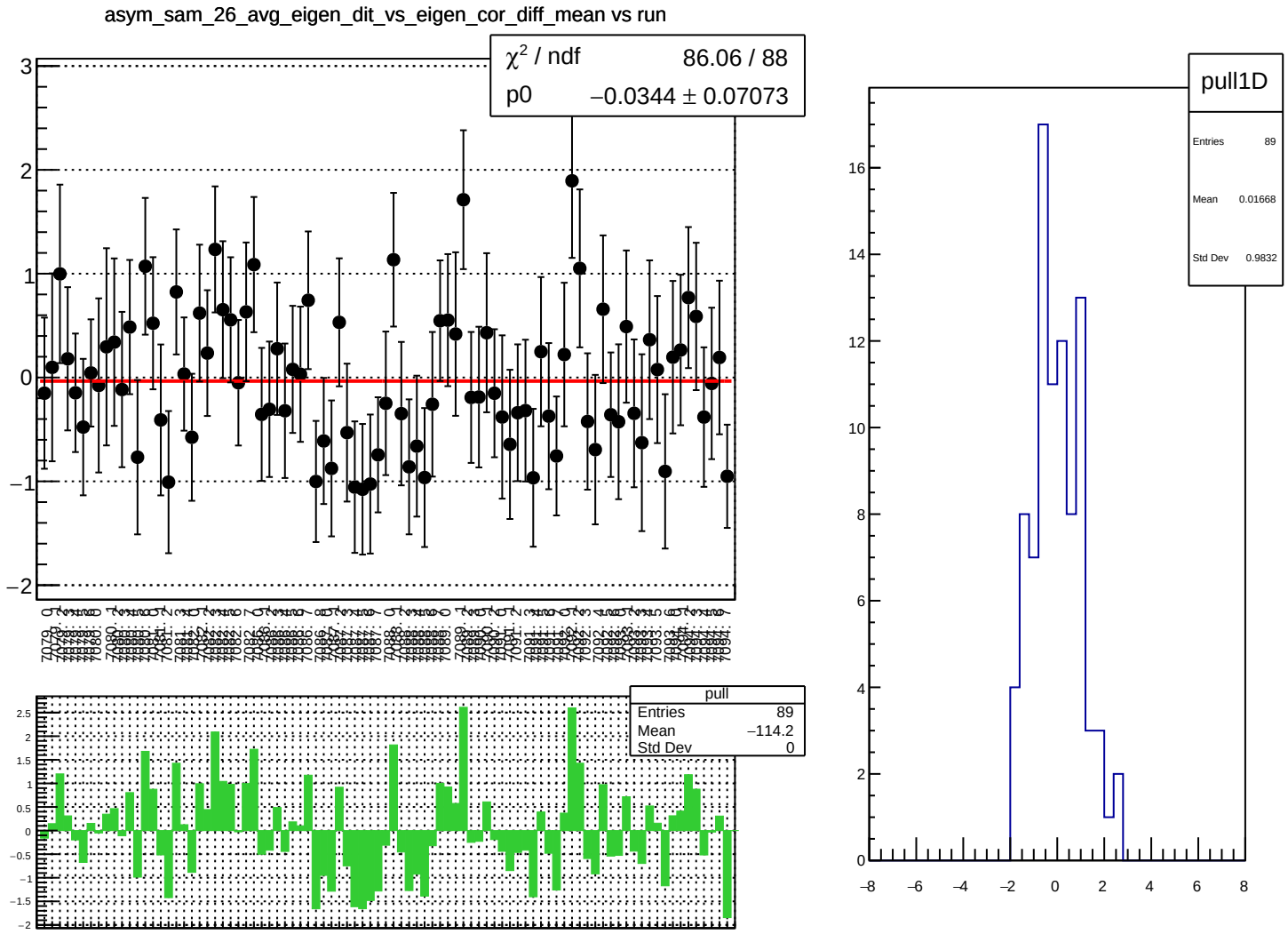

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.05 / 88
p0 4.112e−06 ± 4.166e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −308.5
Std Dev 0
3
2
1
0
−1
−2

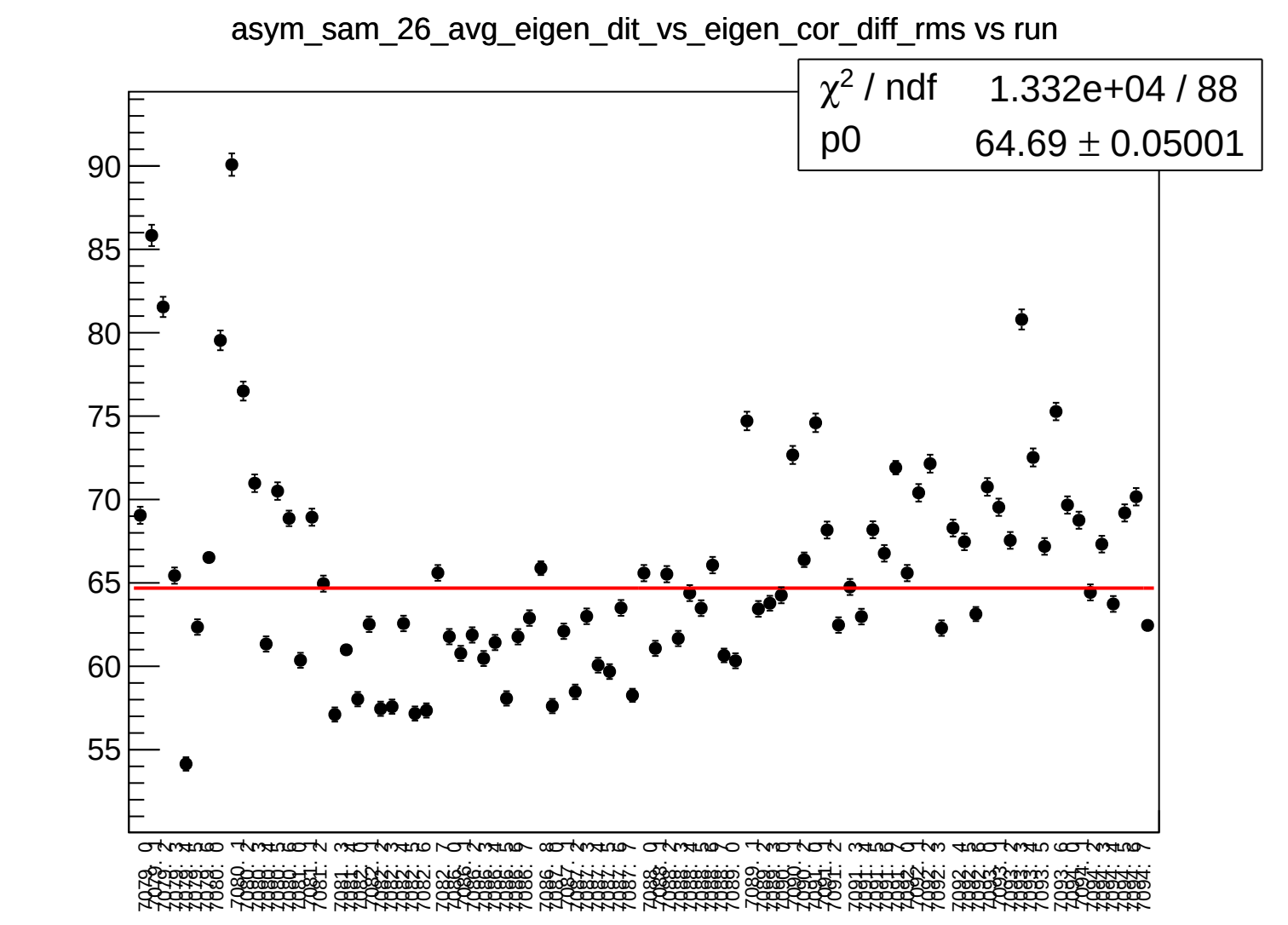

pull1D
Entries 89
Mean 0.009718
Std Dev 0.9121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

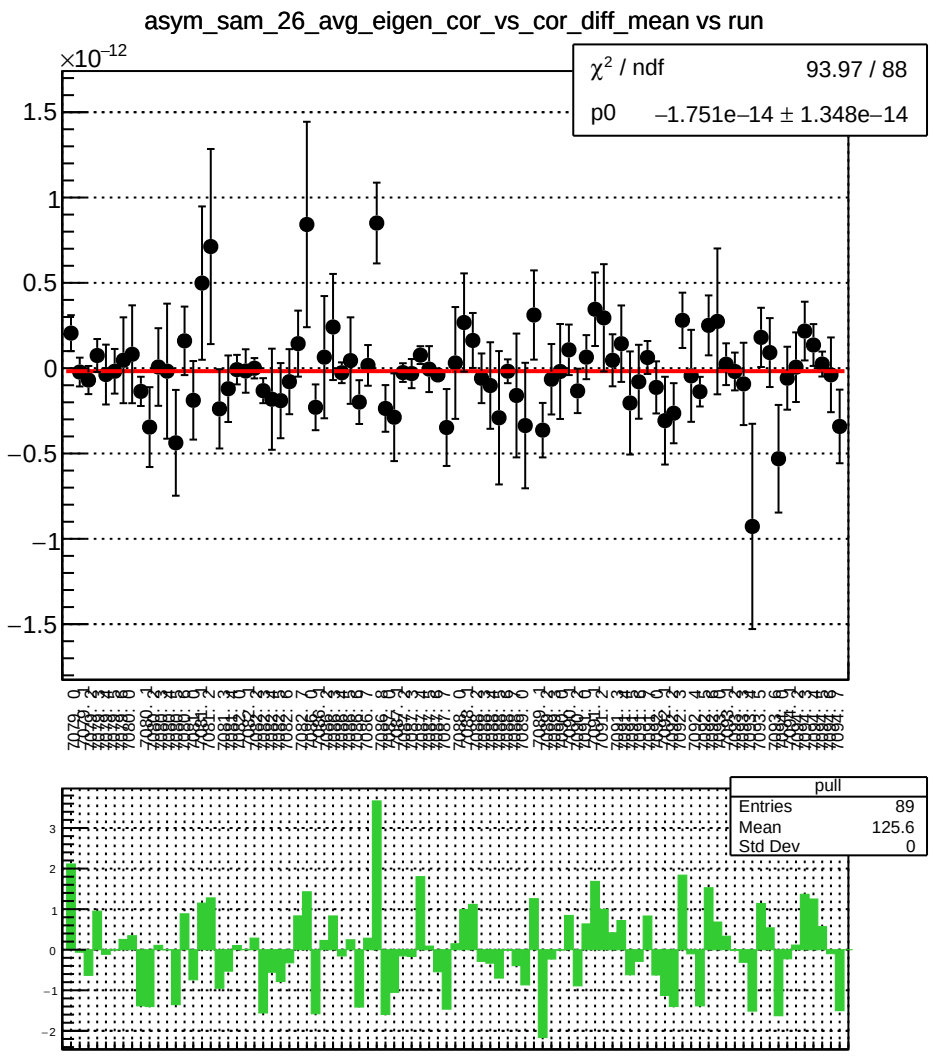

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.122e+04 / 88
p0 0.003813 ± 2.946e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

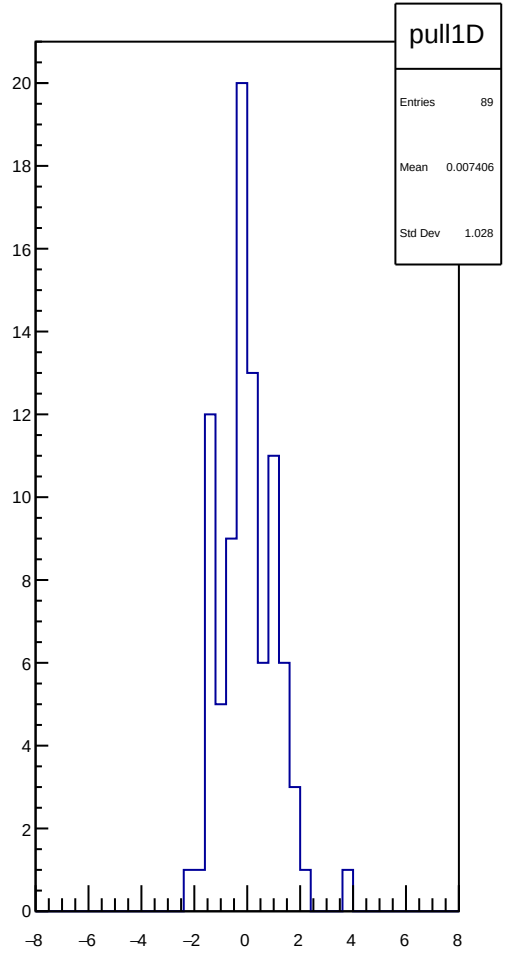

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.06 / 88
p0 −0.0344 ± 0.07073
pull
Entries 89
Mean −114.2
Std Dev 0
pull1D
Entries 89
Mean 0.01668
Std Dev 0.9832

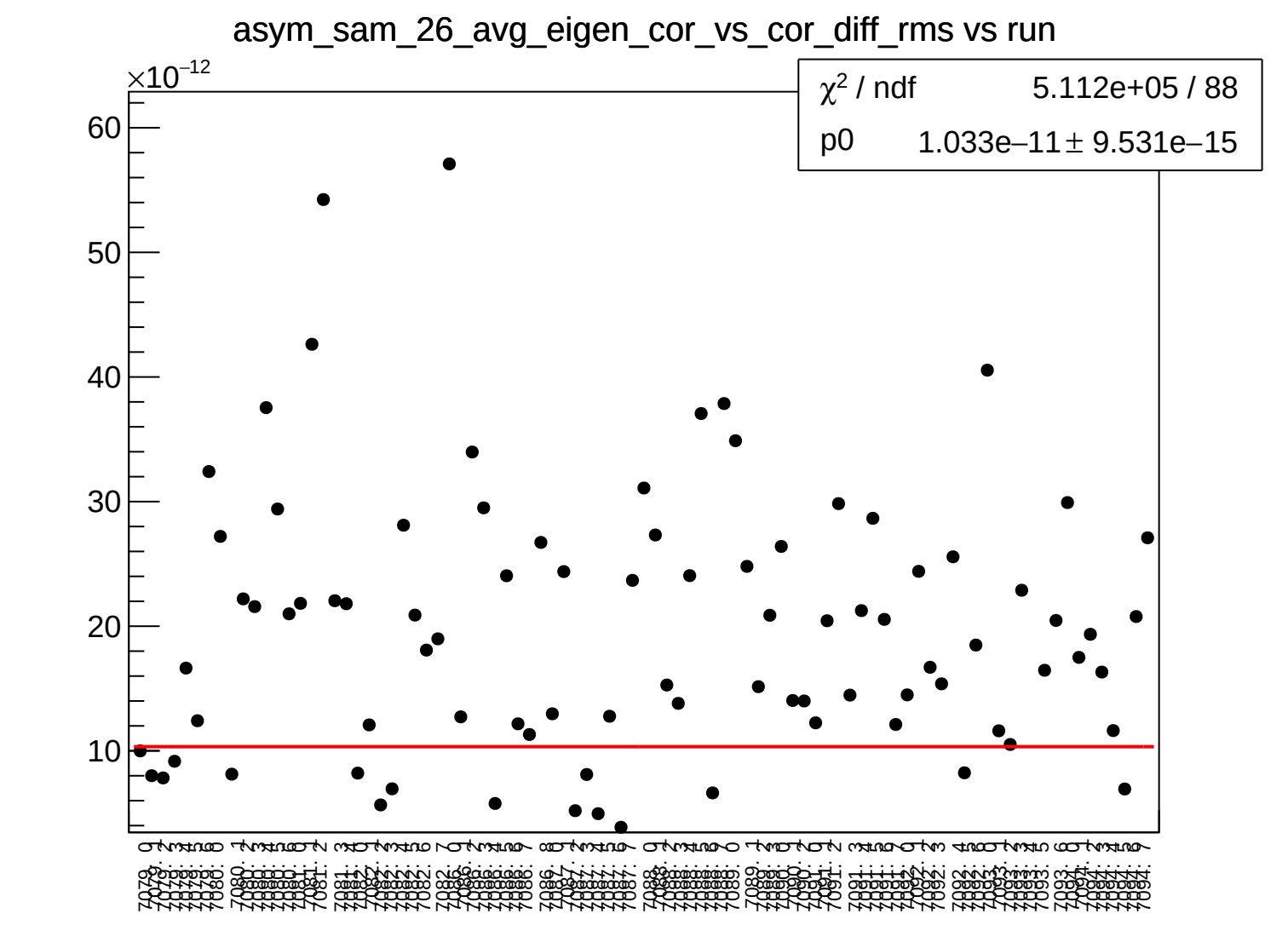

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.332e+04 / 88
p0 64.69 ± 0.05001
90
85
80
75
70
65
60
55

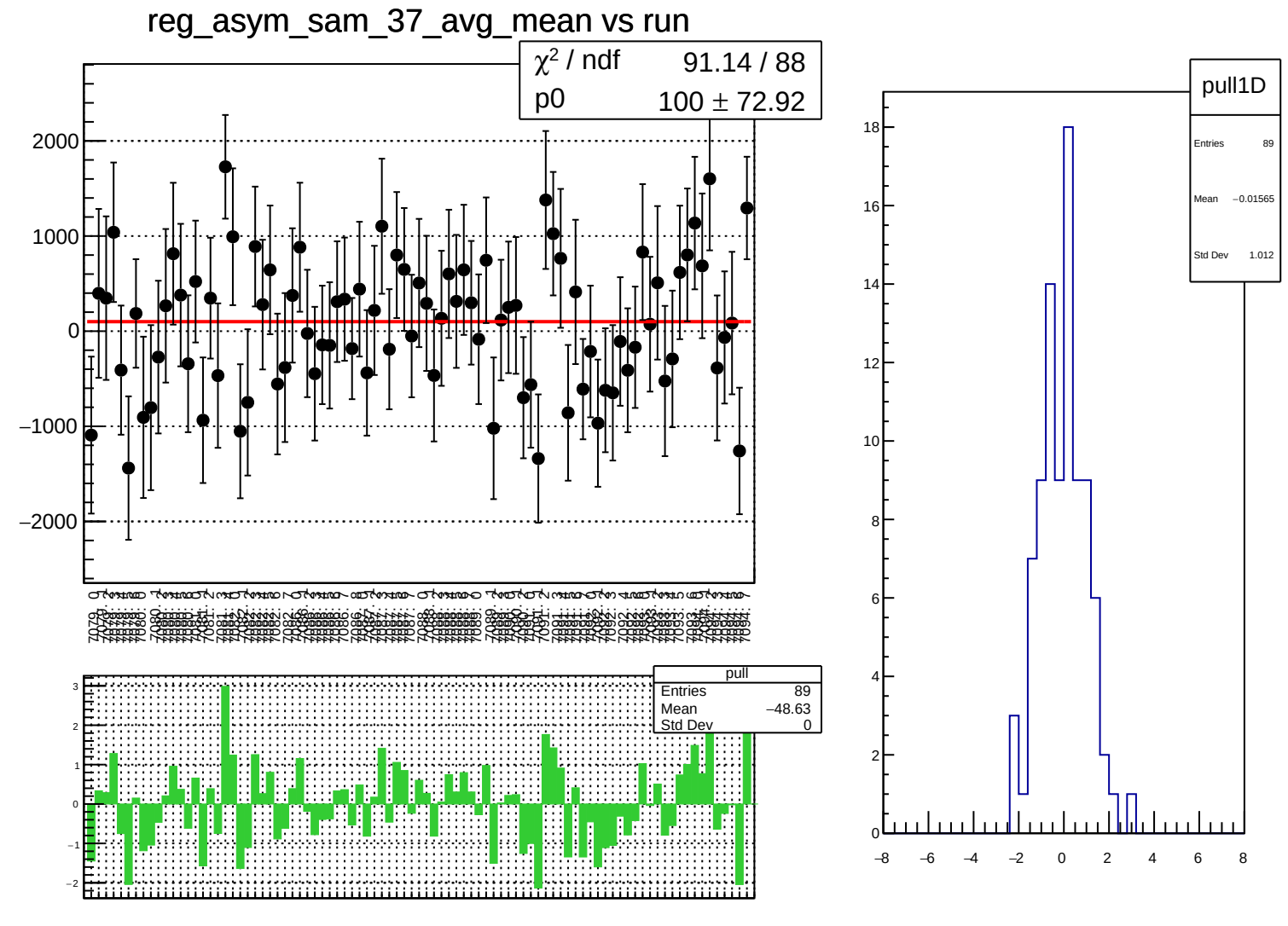

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.06 / 88
p0 −0.0344 ± 0.07073
pull
Entries 89
Mean −114.2
Std Dev 0
pull1D
Entries 89
Mean 0.01668
Std Dev 0.9832

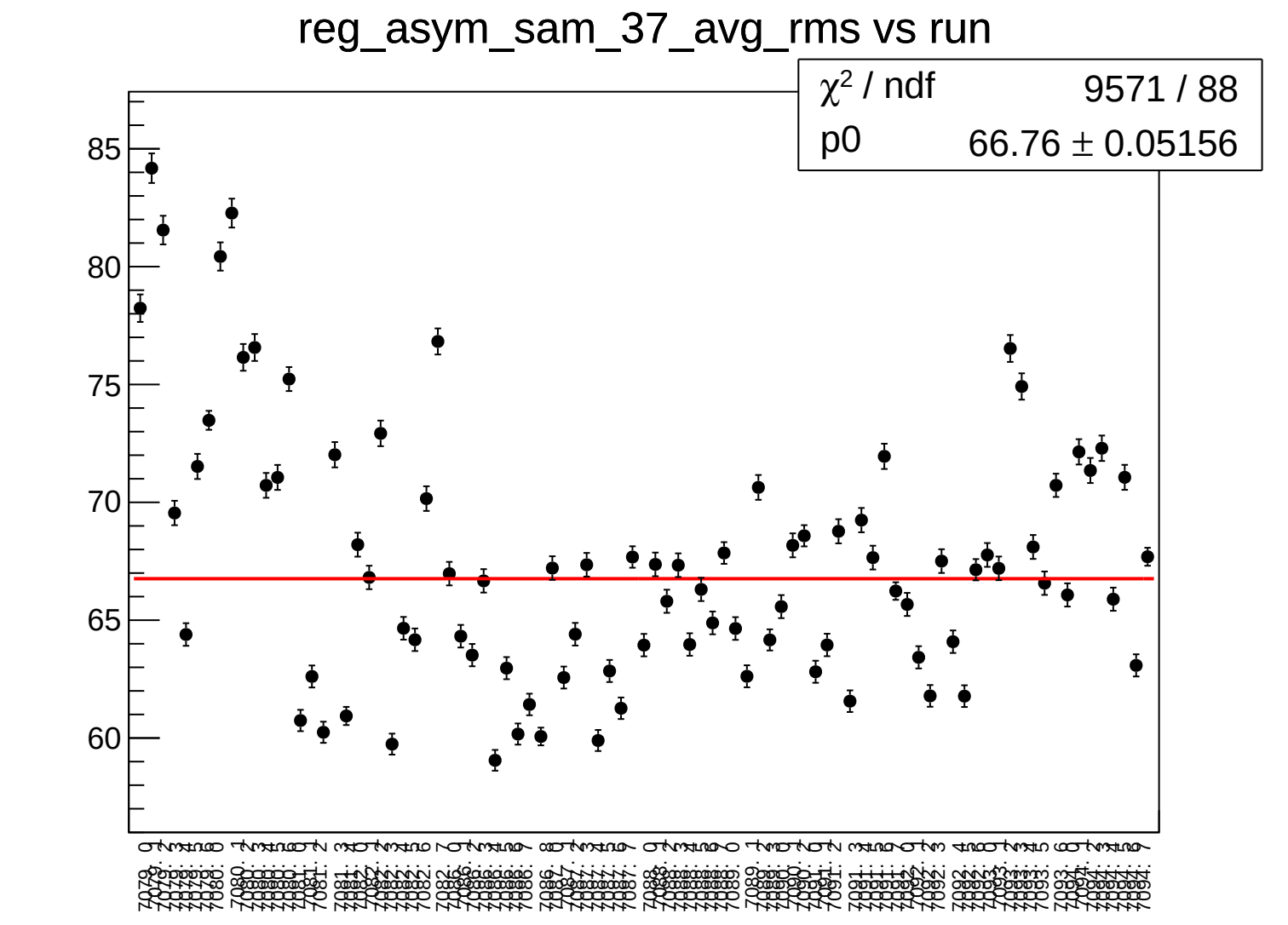

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.332e+04 / 88
p0 64.69 ± 0.05001
90
85
80
75
70
65
60
55

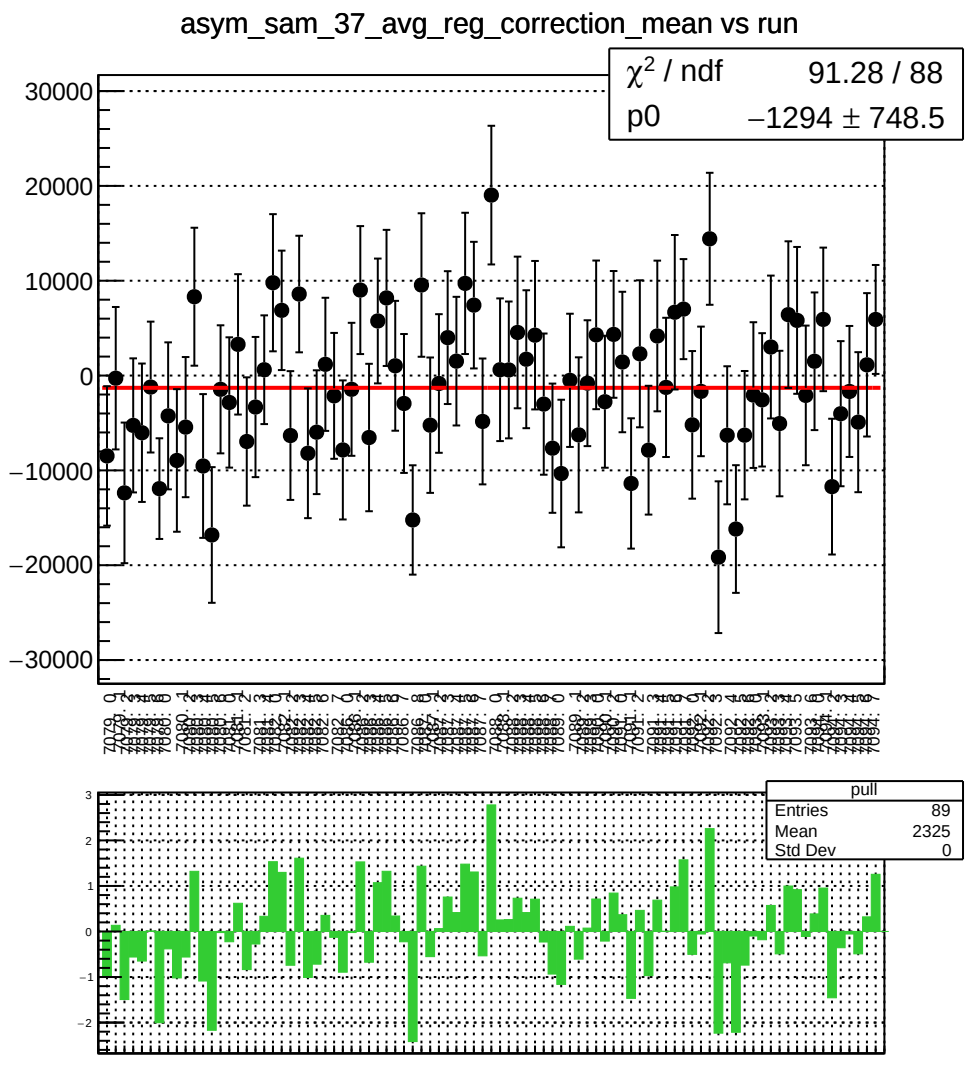

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.97 / 88
p0 −1.751e−14 ± 1.348e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 89
Mean 125.6
Std Dev 0
3
2
1
0
−1
−2

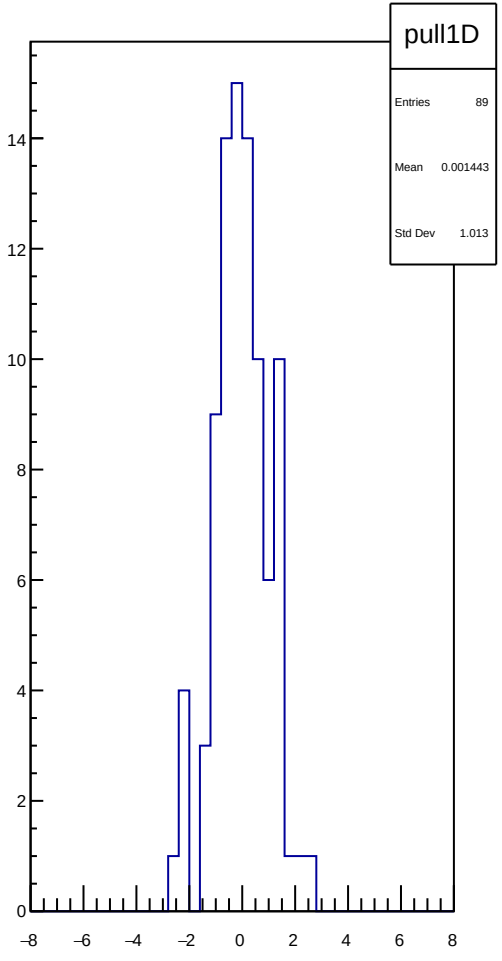

pull1D
Entries 89
Mean 0.007406
Std Dev 1.028
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

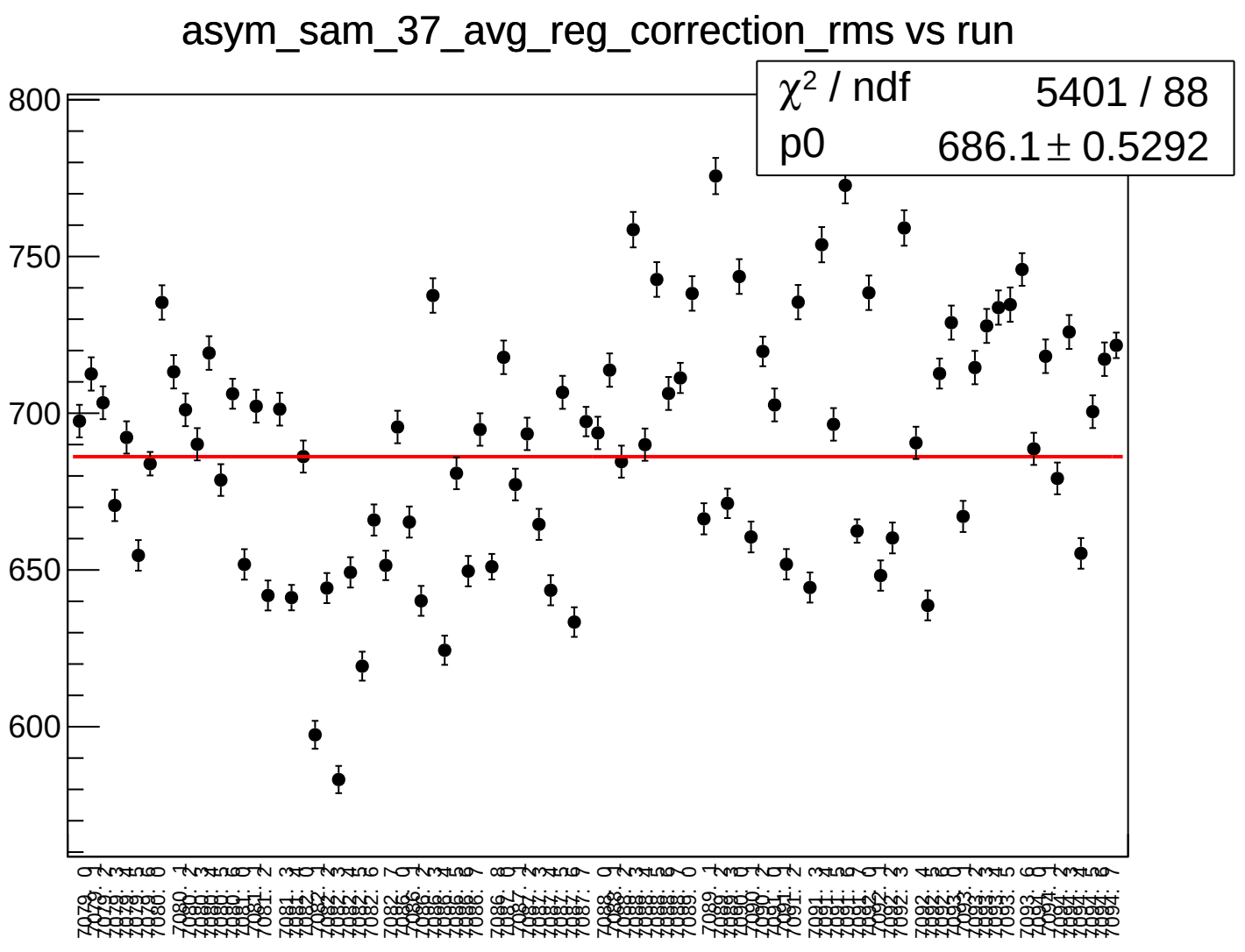

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 5.112e+05 / 88
p0 1.033e−11 ± 9.531e−15

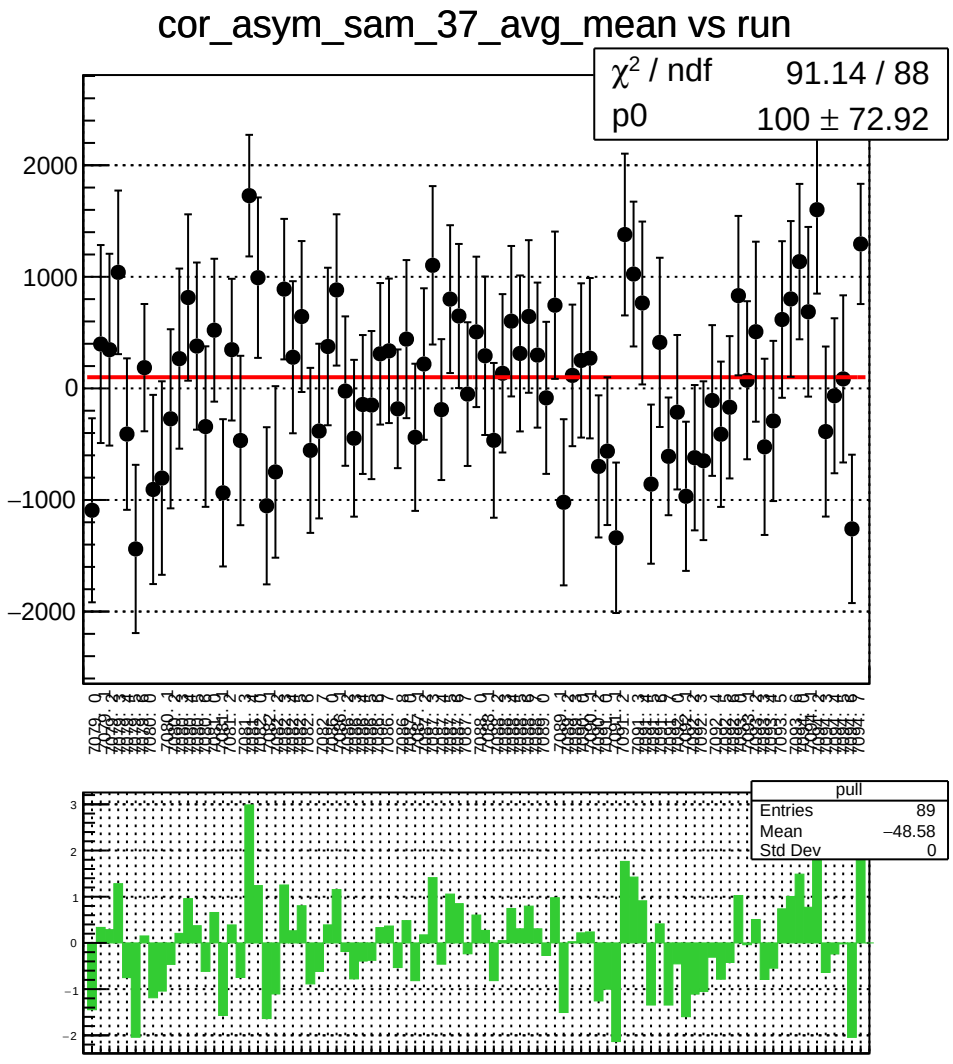

reg_asym_sam_37_avg_mean vs run
χ² / ndf 91.14 / 88
p0 100 ± 72.92
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −48.63
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01565
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

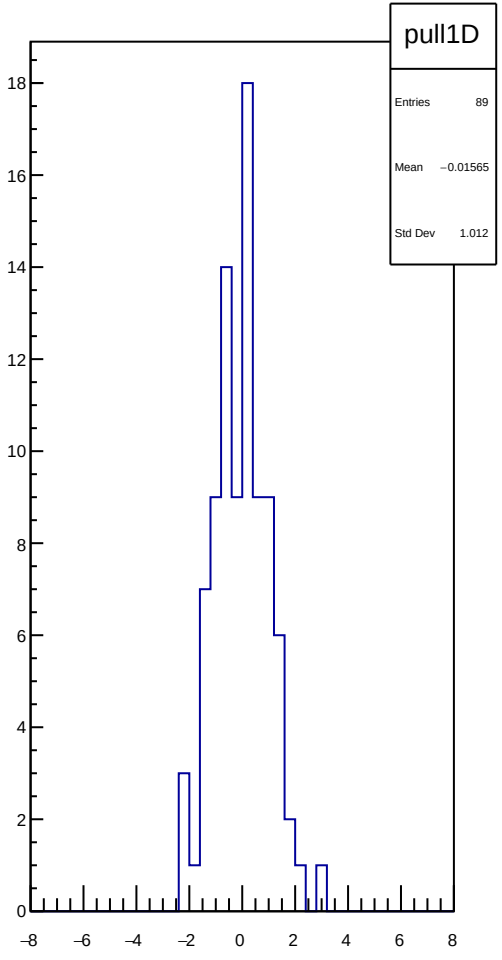

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 9571 / 88
p0 66.76 ± 0.05156
85
80
75
70
65
60

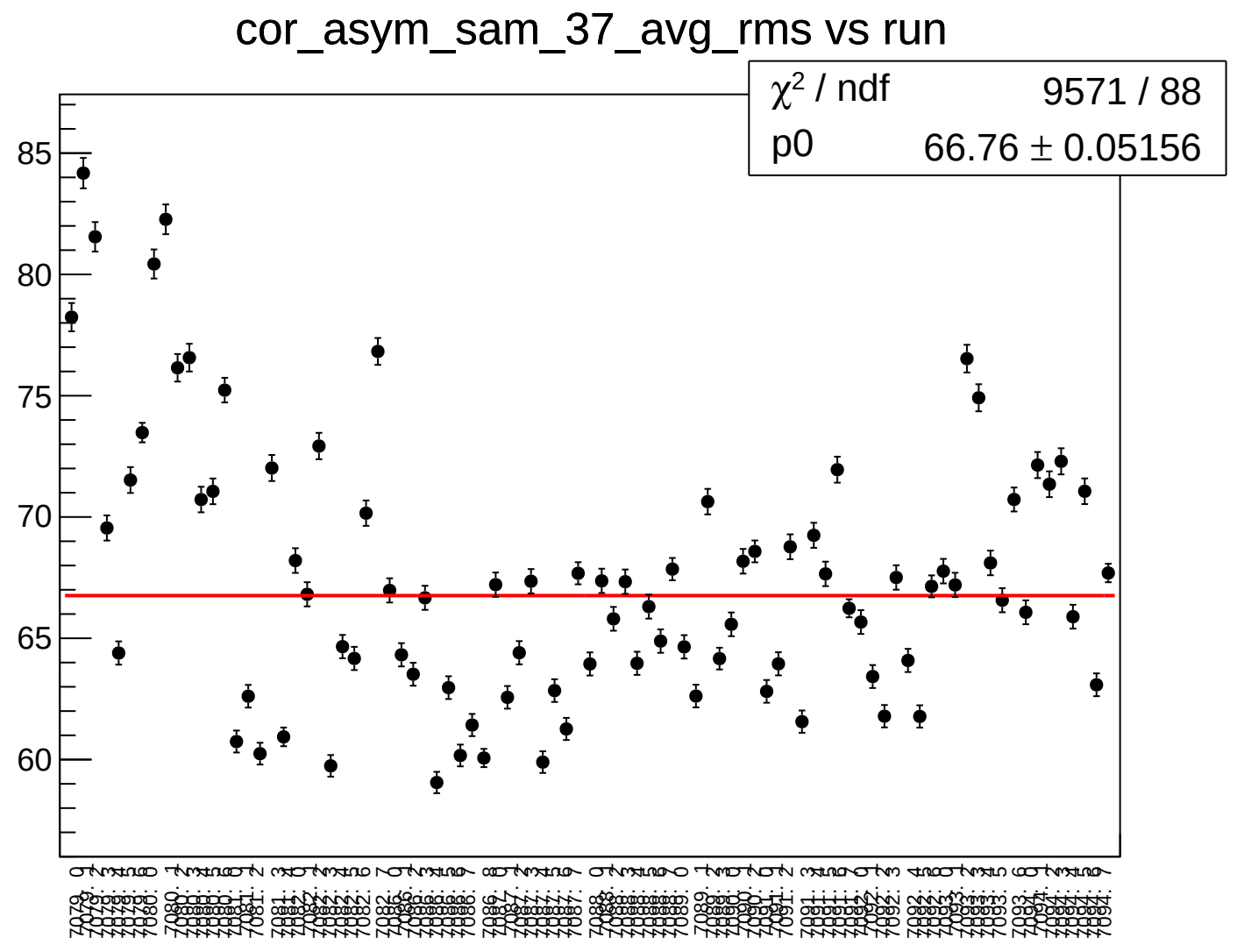

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 91.28 / 88
p0 −1294 ± 748.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 2325
Std Dev 0
3
2
1
0
−1
−2

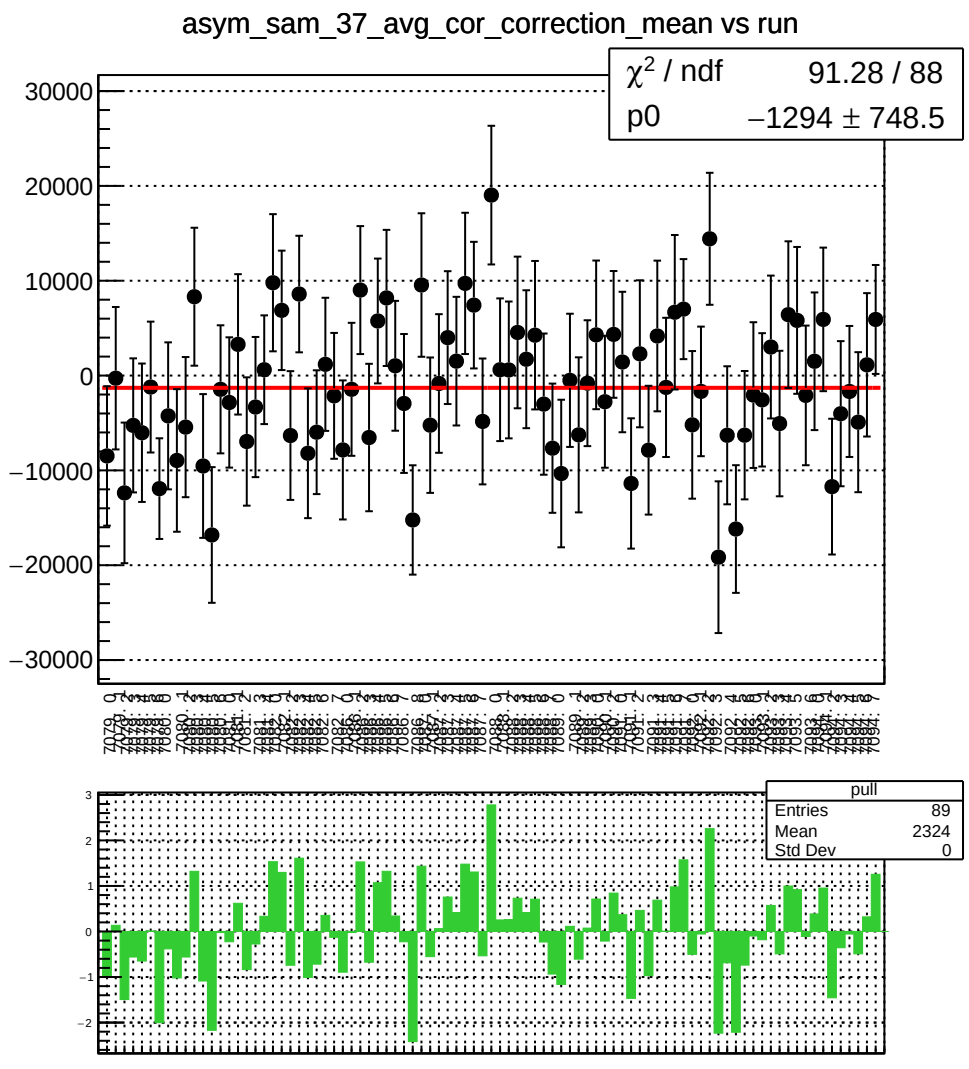

pull1D
Entries 89
Mean 0.001443
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

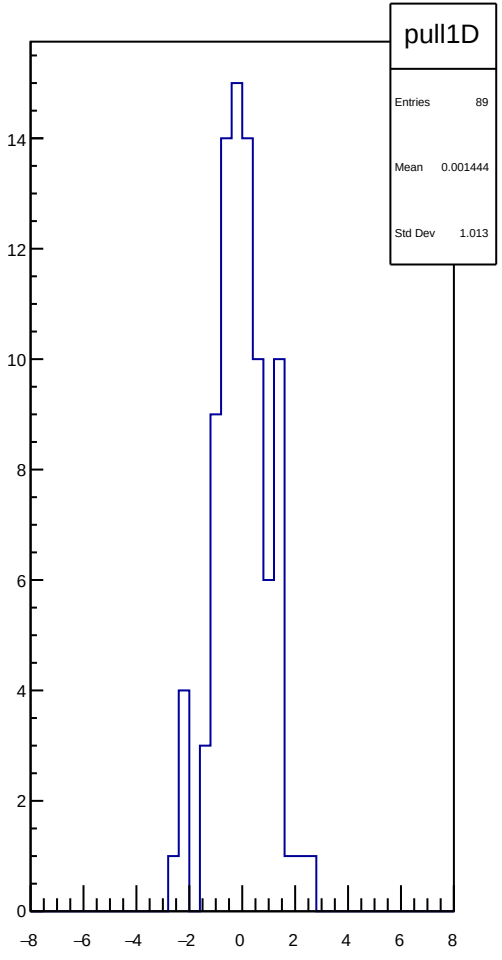

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 5401 / 88
p0 686.1 ± 0.5292
800
750
700
650
600

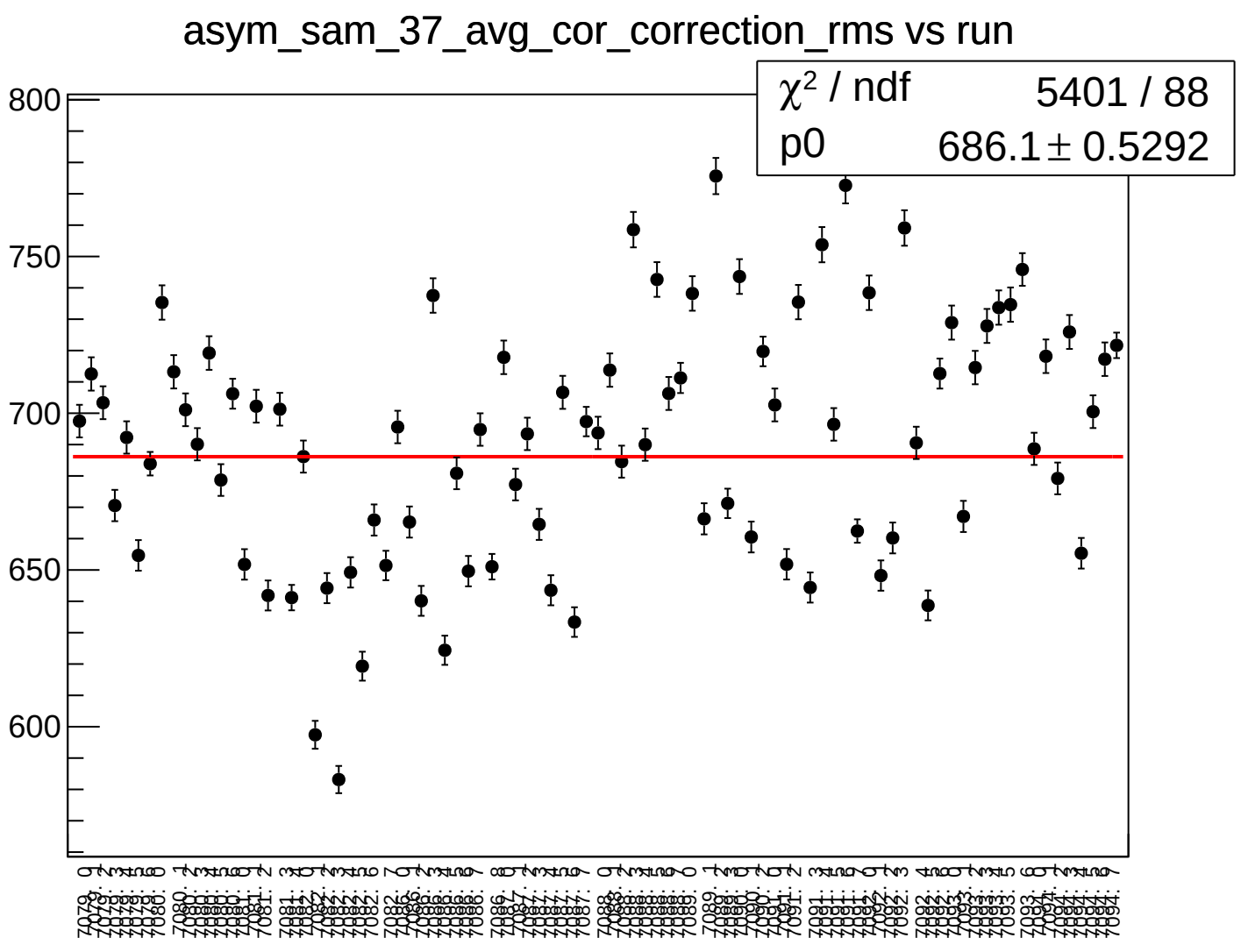

cor_asym_sam_37_avg_mean vs run
χ² / ndf 91.14 / 88
p0 100 ± 72.92
pull
Entries 89
Mean −48.58
Std Dev 0

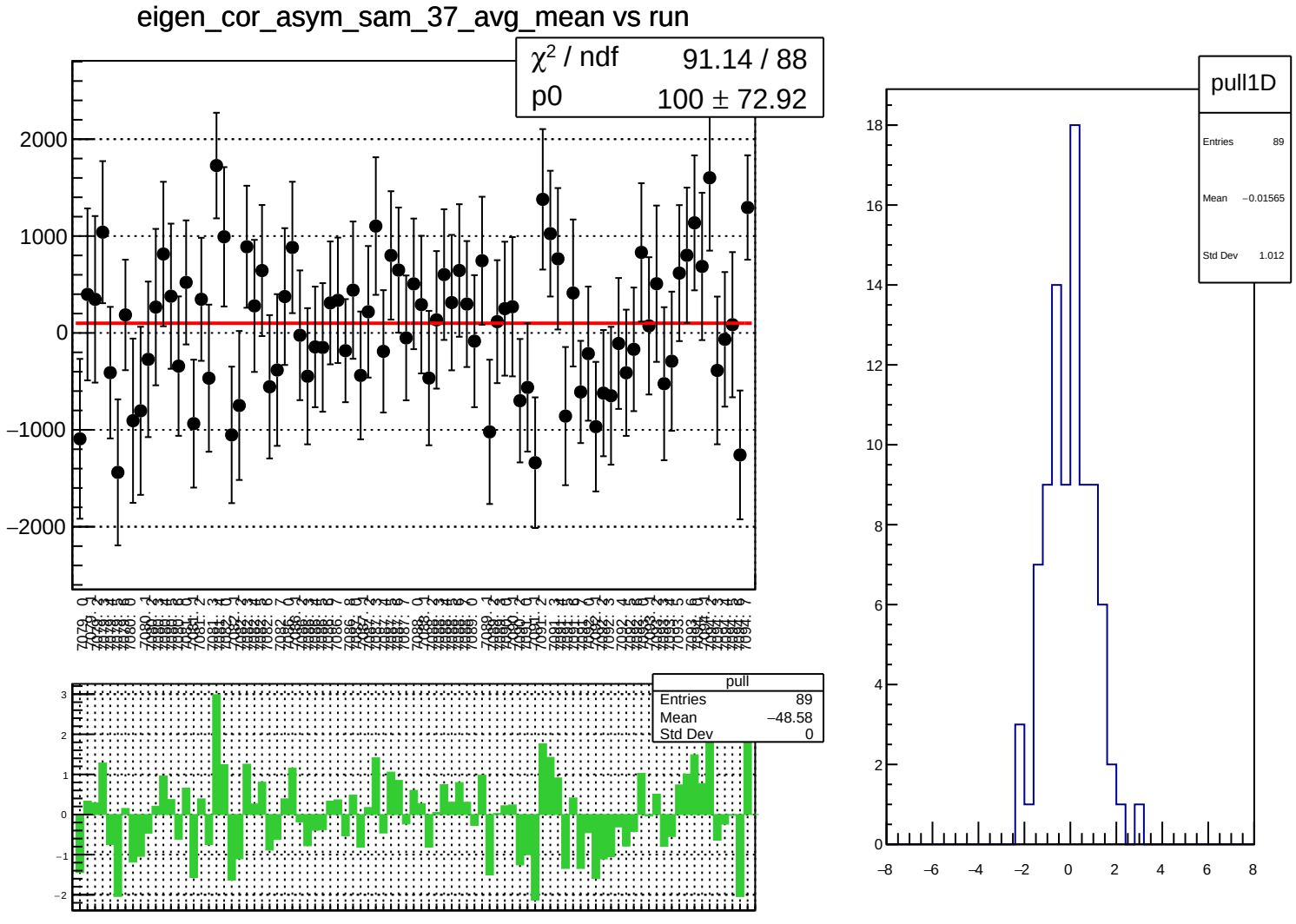

pull1D
Entries 89
Mean −0.01565
Std Dev 1.012

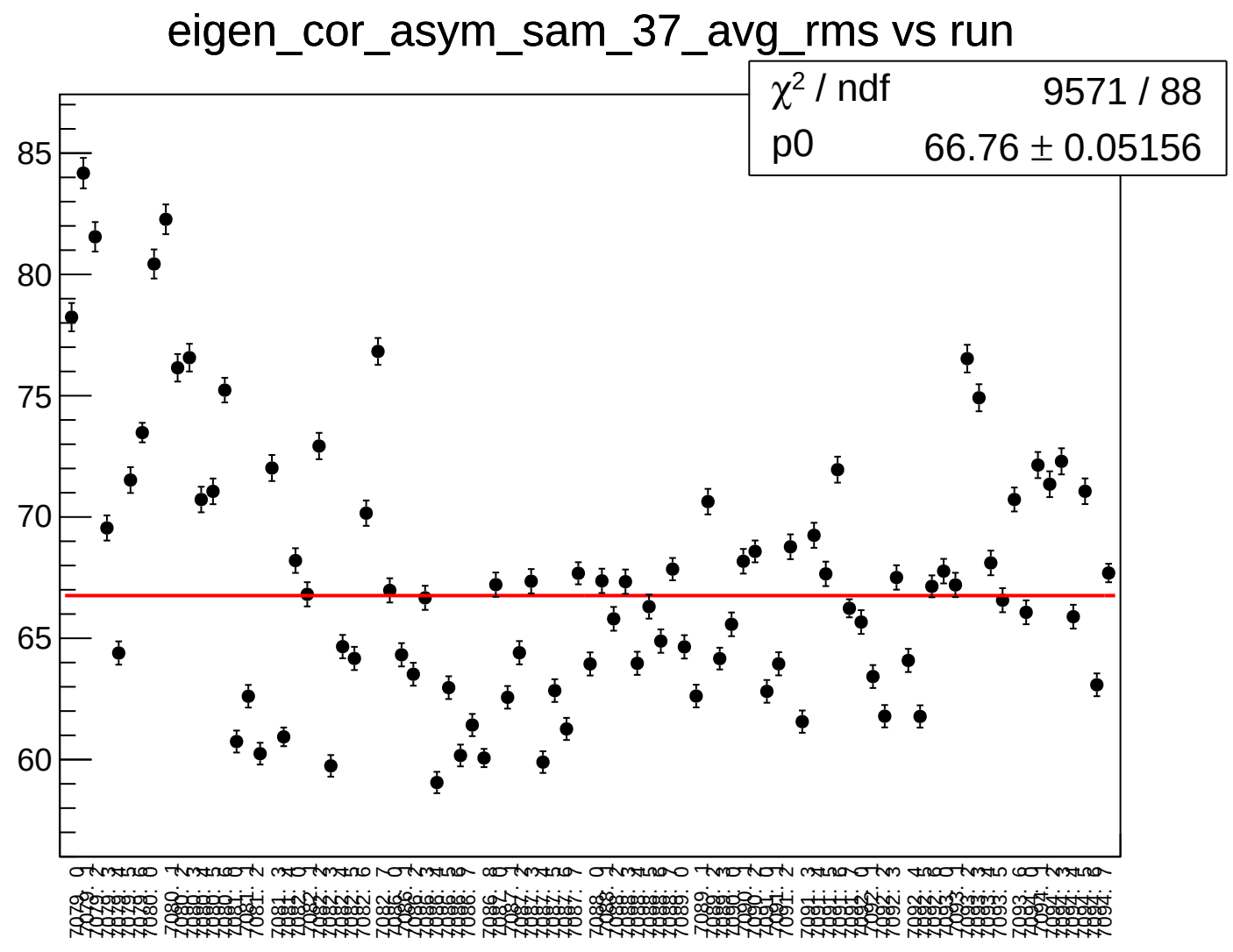

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 9571 / 88
p0 66.76 ± 0.05156
85
80
75
70
65
60

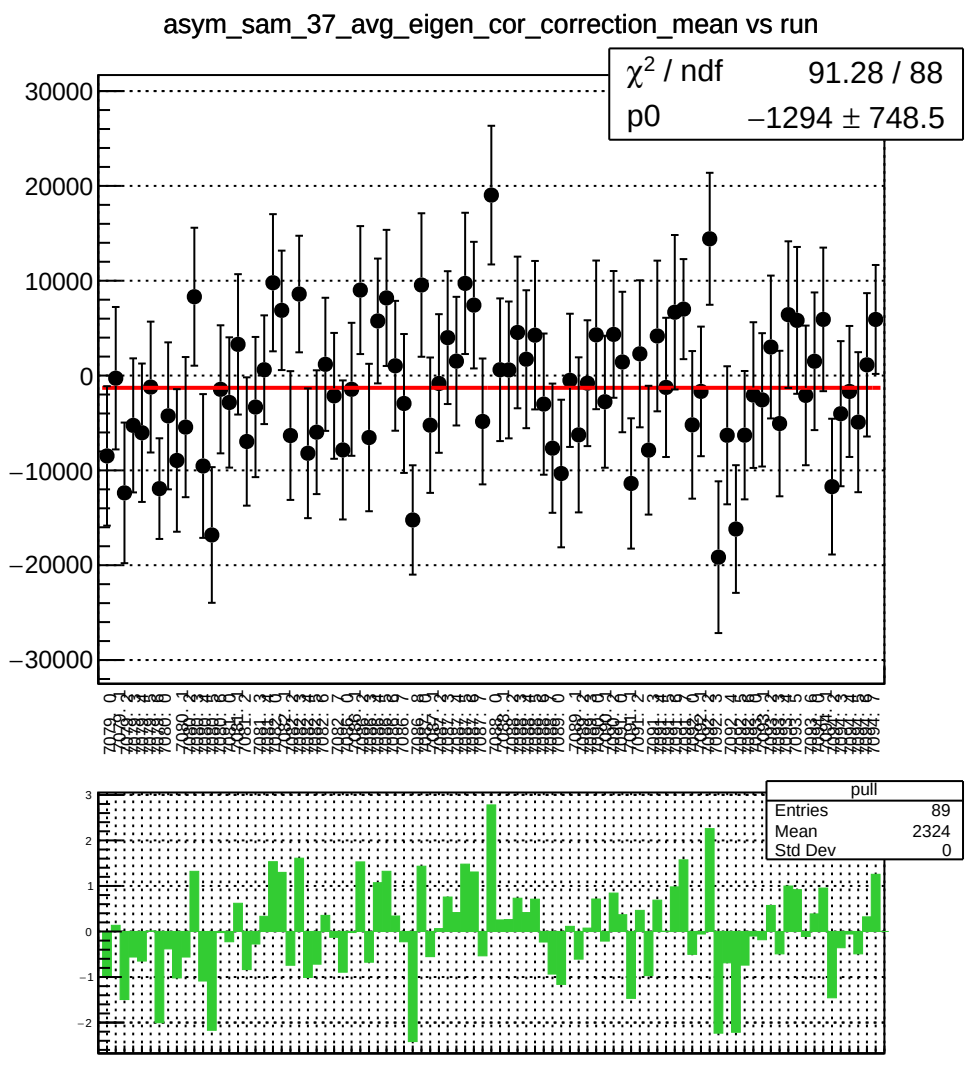

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 91.28 / 88
p0 −1294 ± 748.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 2324
Std Dev 0
3
2
1
0
−1
−2

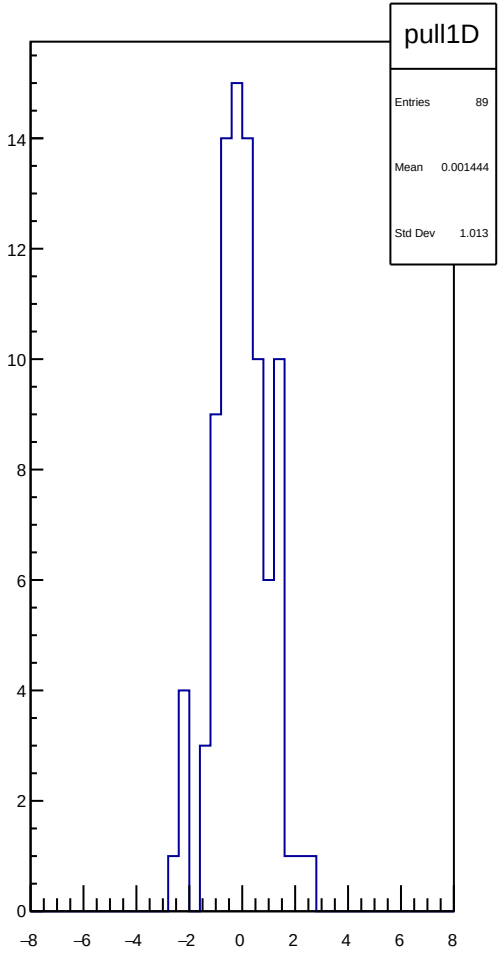

pull1D
Entries 89
Mean 0.001444
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

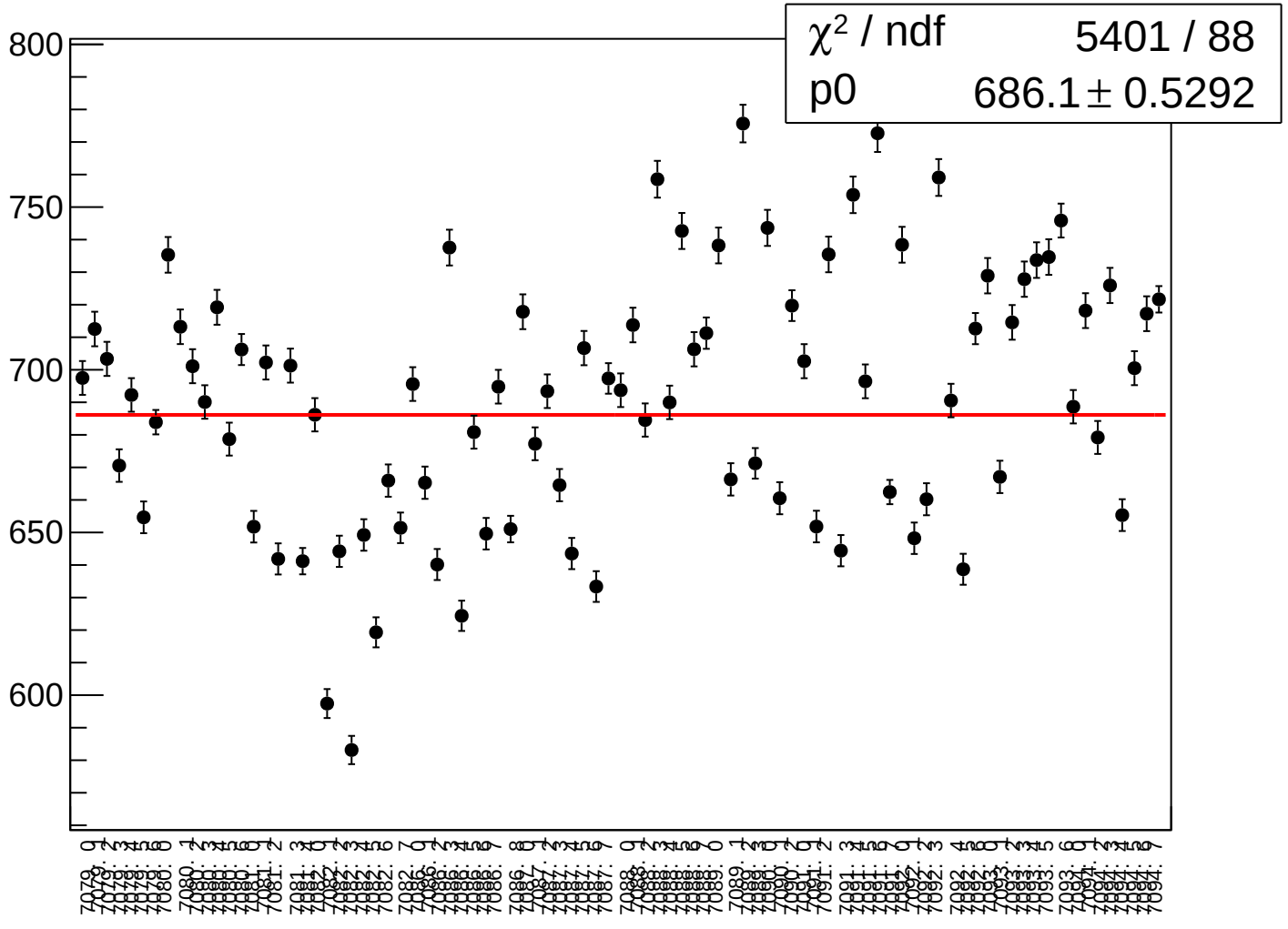

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 5401 / 88
p0 686.1 ± 0.5292
800
750
700
650
600

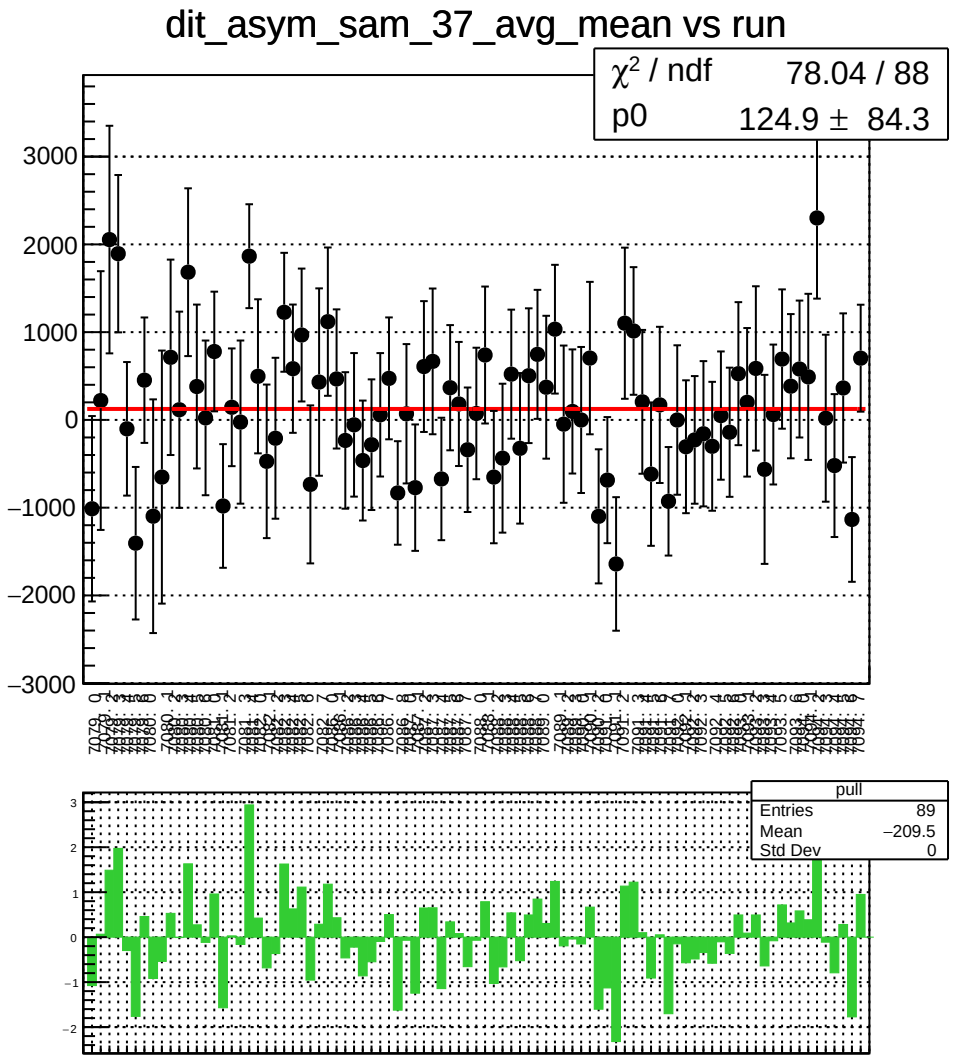

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 91.14 / 88
p0 100 ± 72.92
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −48.58
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01565
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

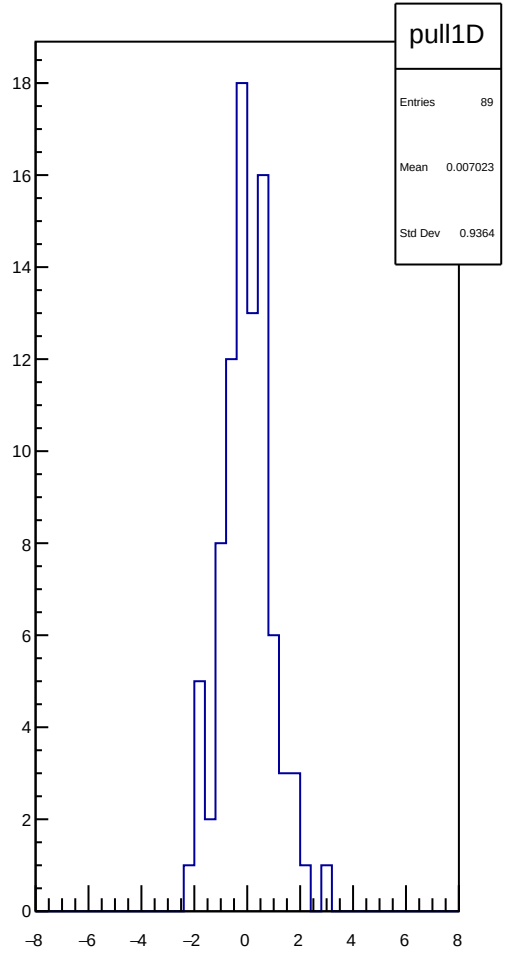

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 9571 / 88
p0 66.76 ± 0.05156
85
80
75
70
65
60

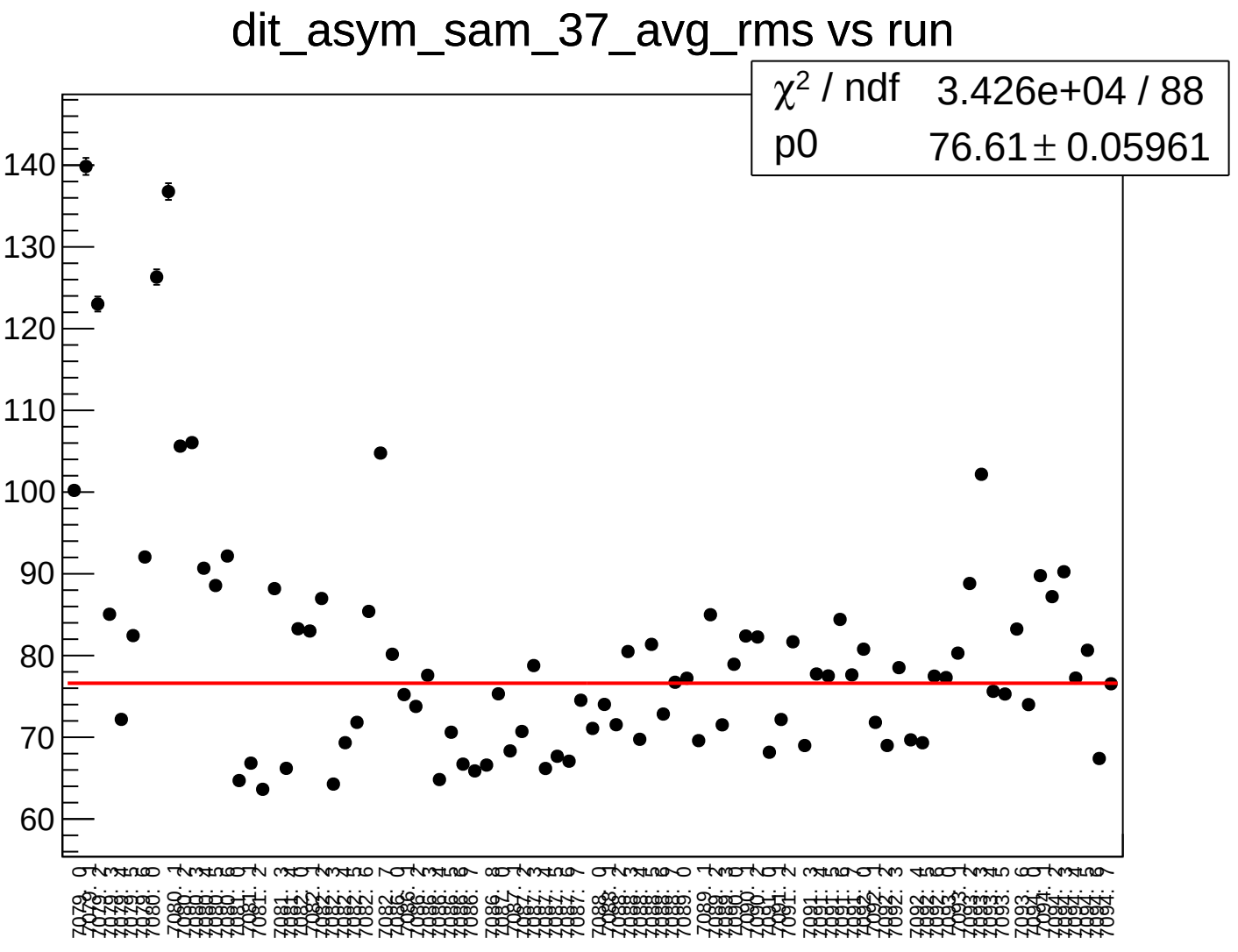

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.28 / 88
p0 −1294 ± 748.5
pull
Entries 89
Mean 2324
Std Dev 0

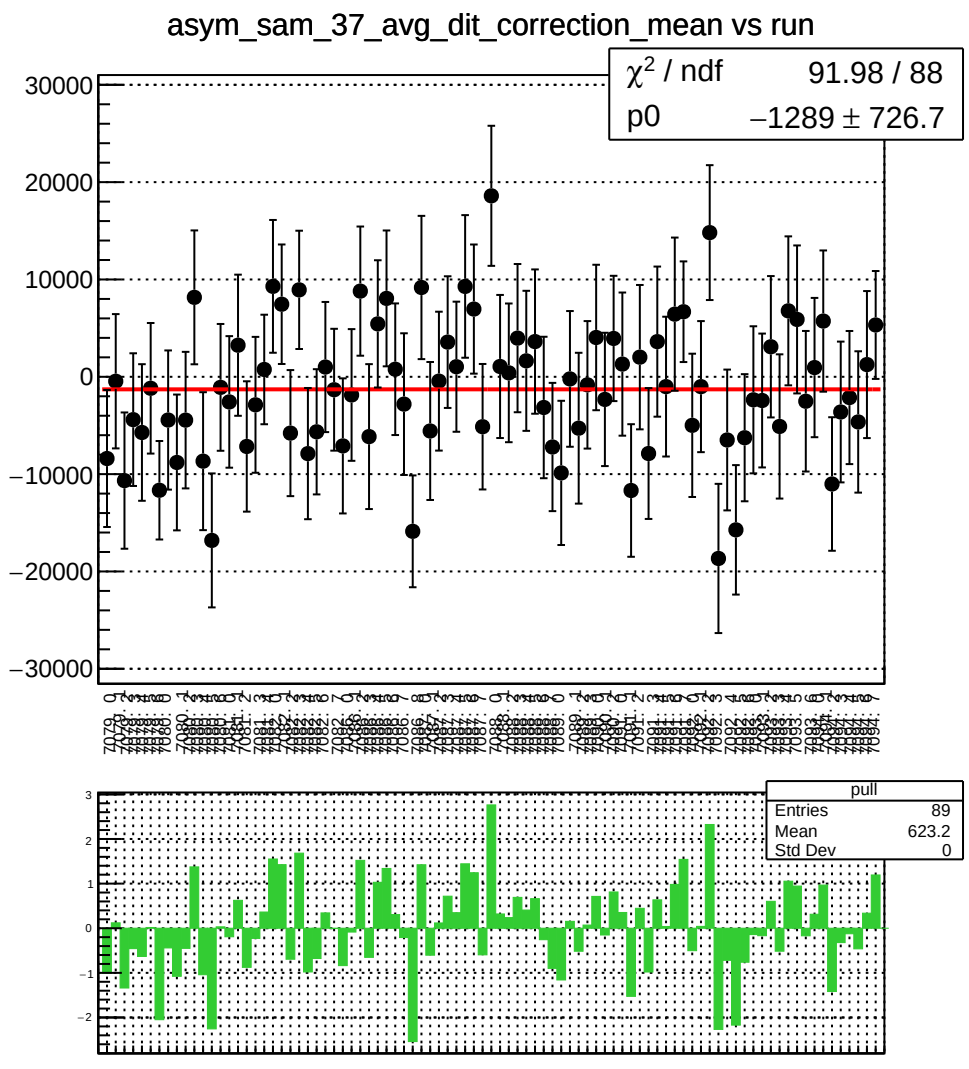

pull1D
Entries 89
Mean 0.001444
Std Dev 1.013

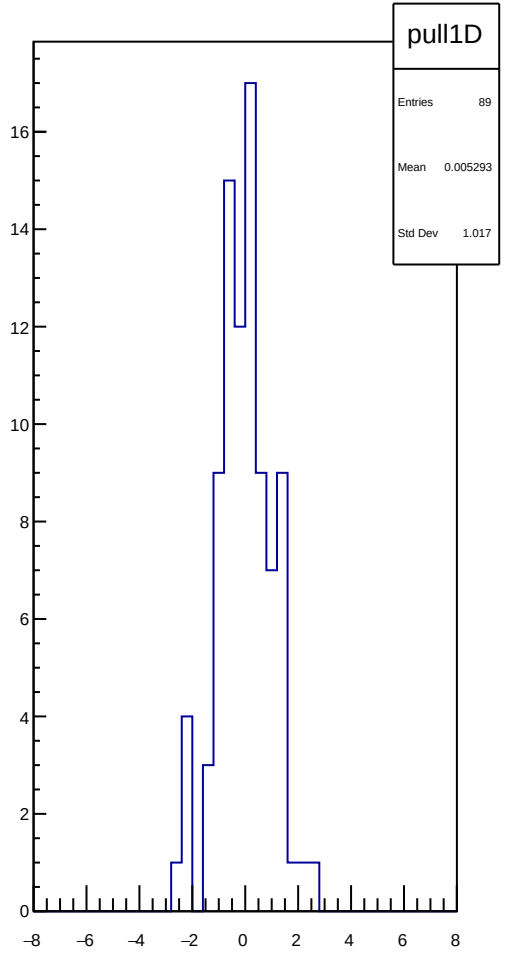

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 5401 / 88
p0 686.1 ± 0.5292
800
750
700
650
600

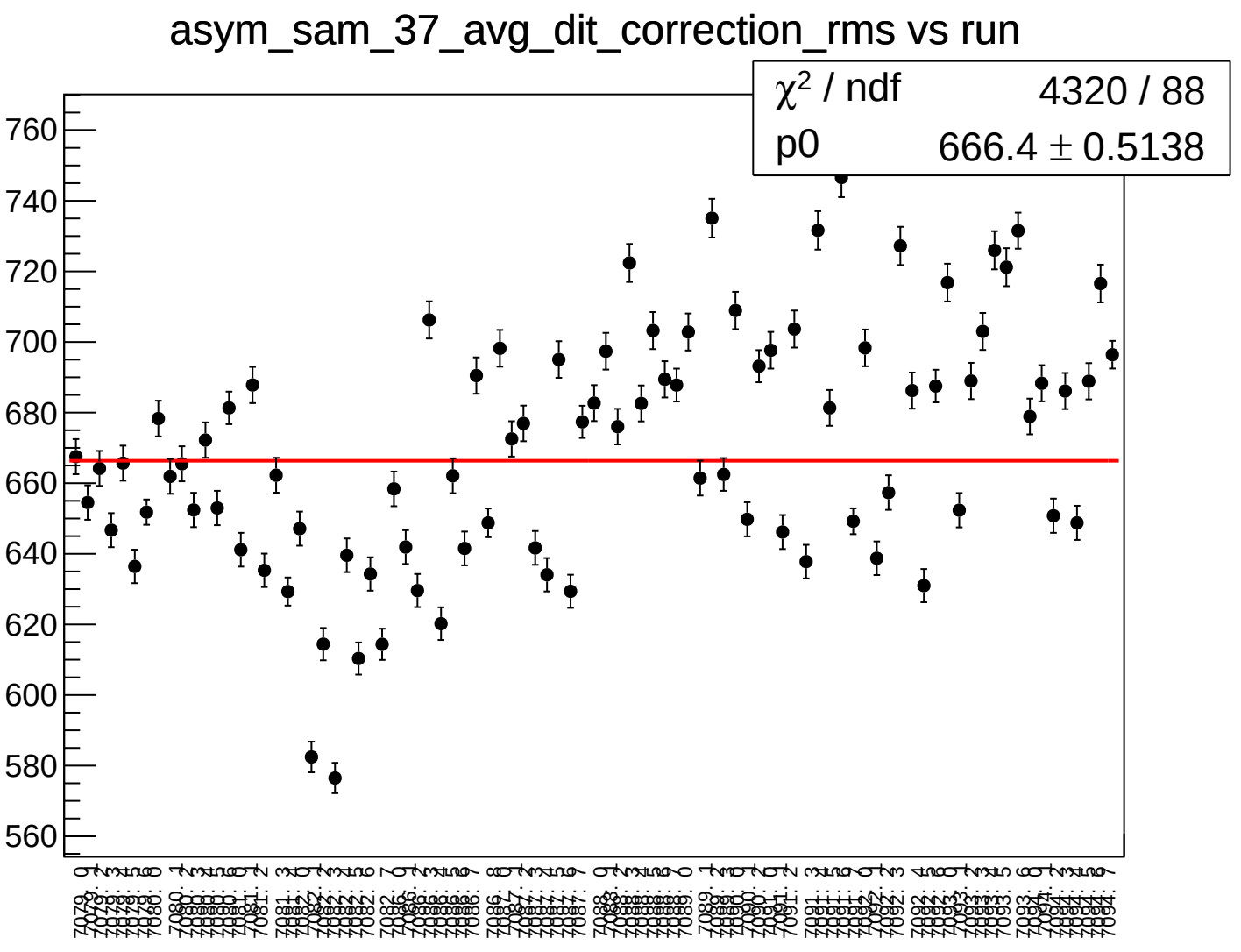

dit_asym_sam_37_avg_mean vs run
χ² / ndf 78.04 / 88
p0 124.9 ± 84.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −209.5
Std Dev 0
3
2
1
0
−1
−2

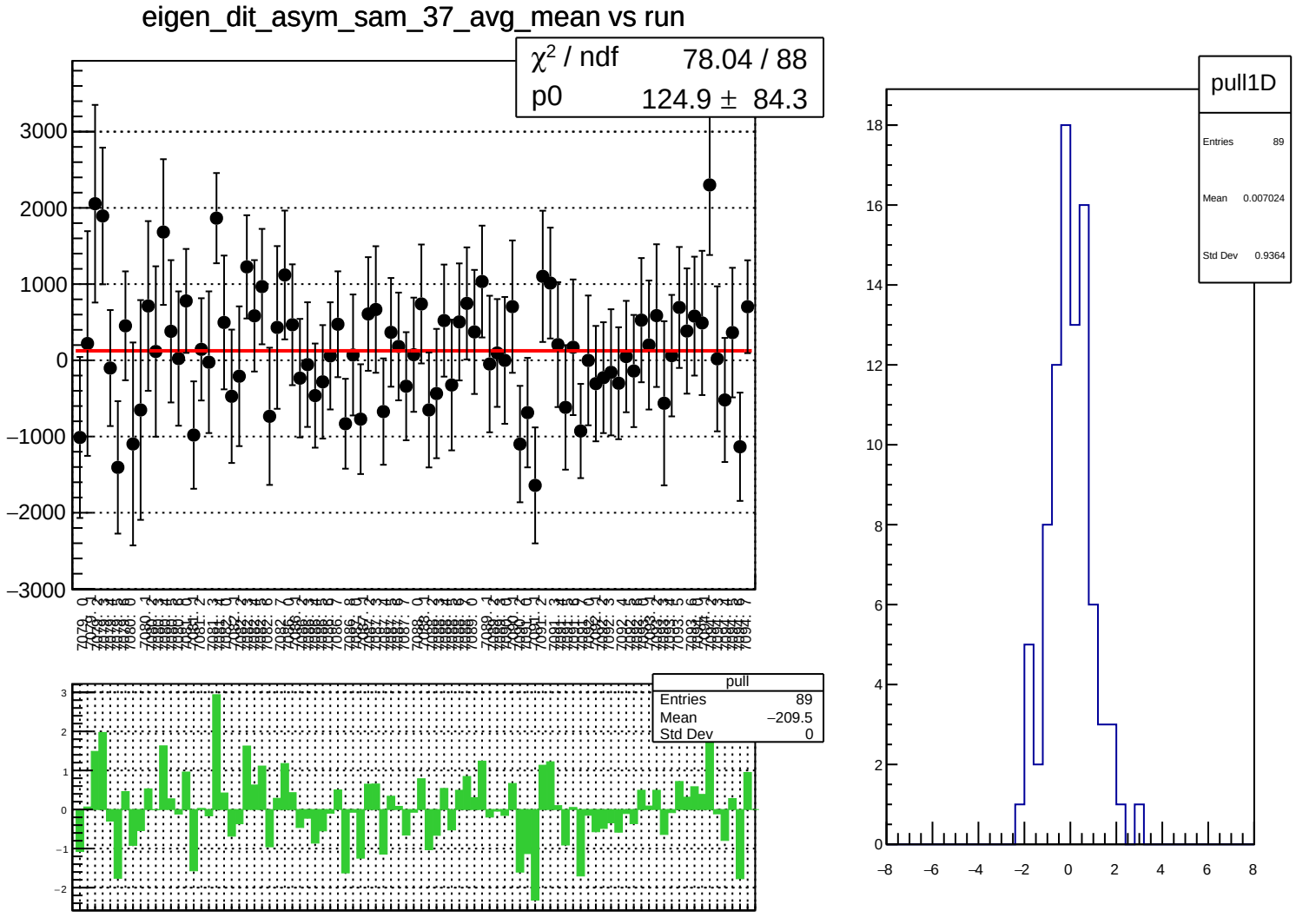

pull1D
Entries 89
Mean 0.007023
Std Dev 0.9364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

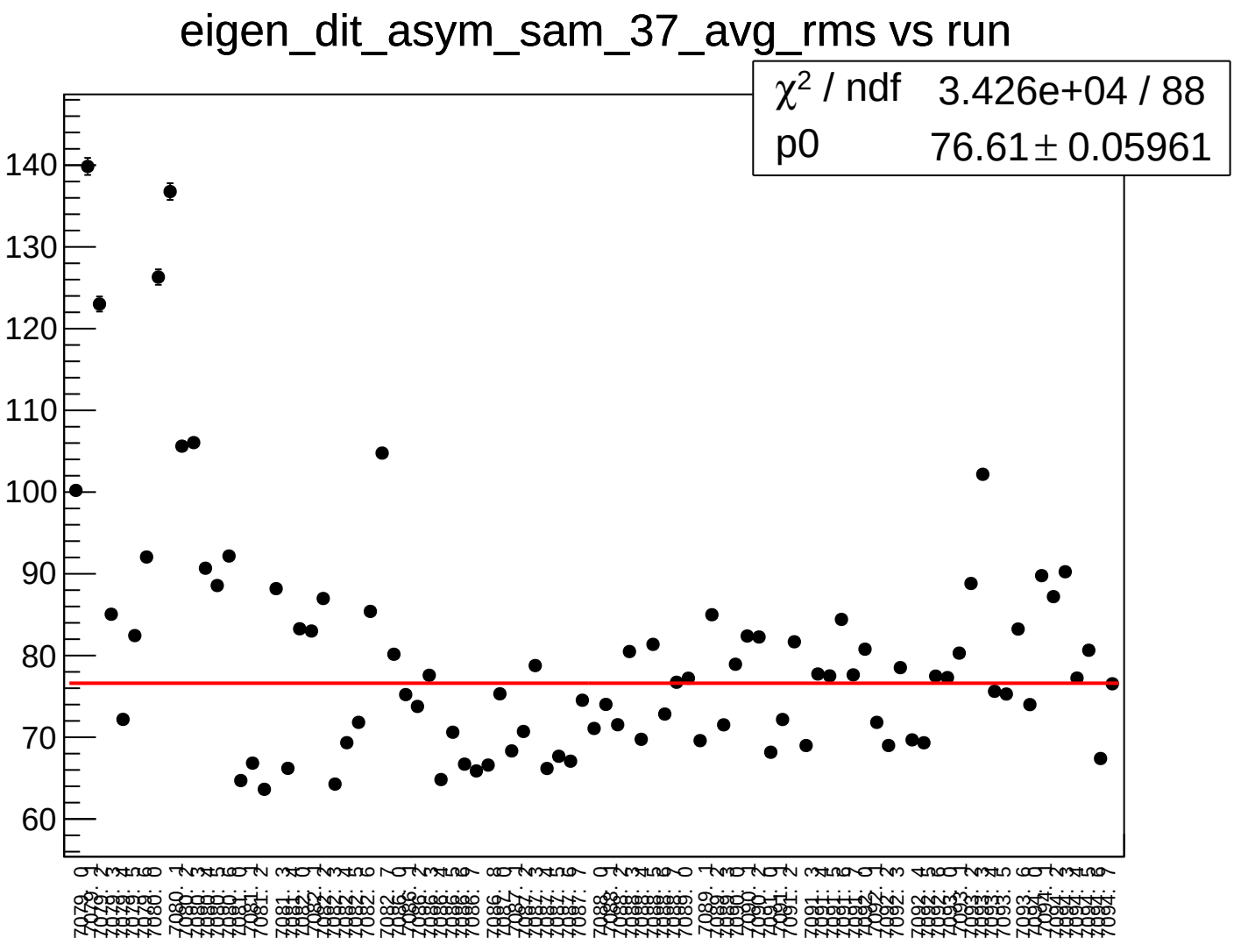

dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.426e+04 / 88
p0 76.61 ± 0.05961
140
130
120
110
100
90
80
70
60

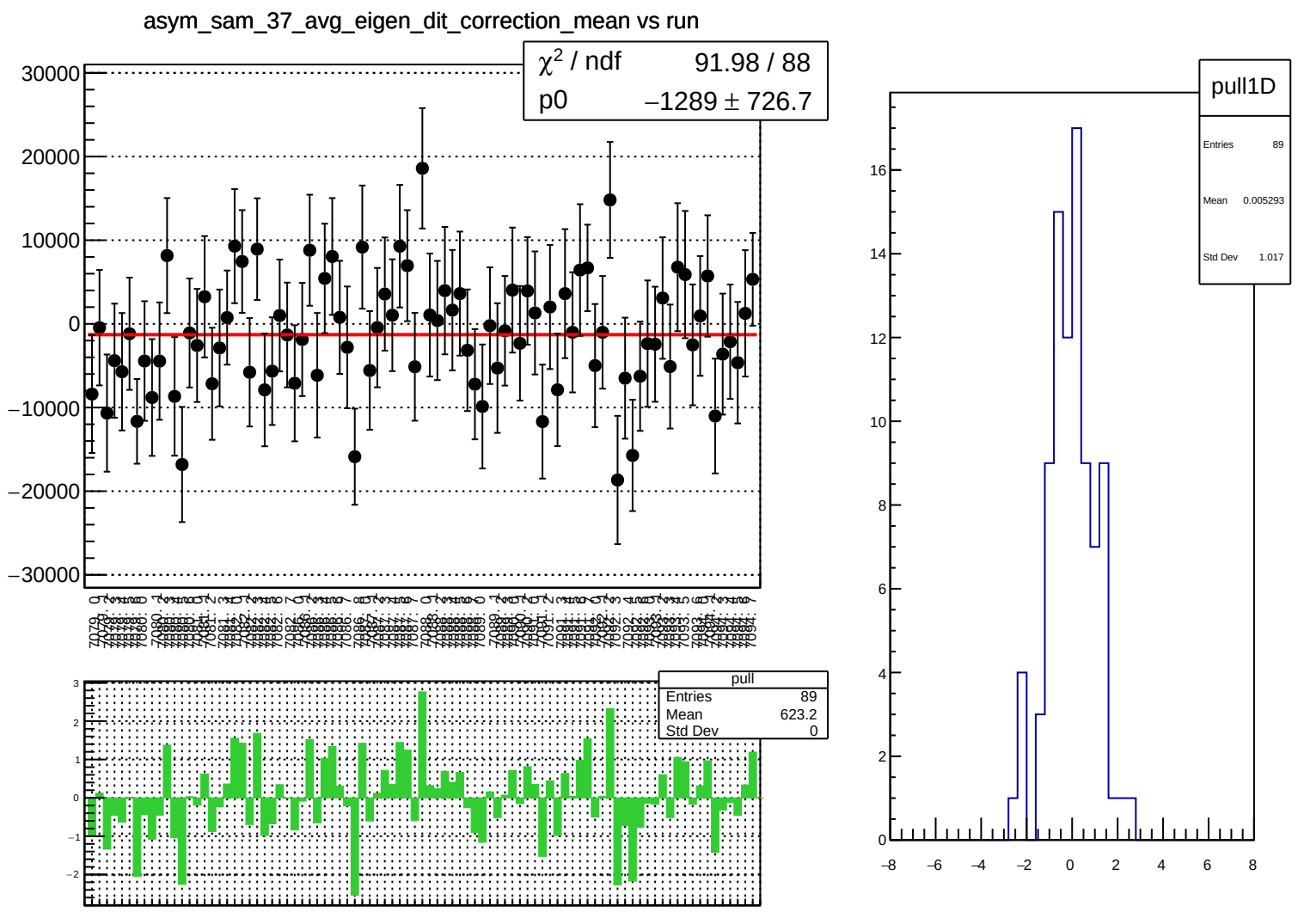

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 91.98 / 88
p0 −1289 ± 726.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 623.2
Std Dev 0
3
2
1
0
−1
−2

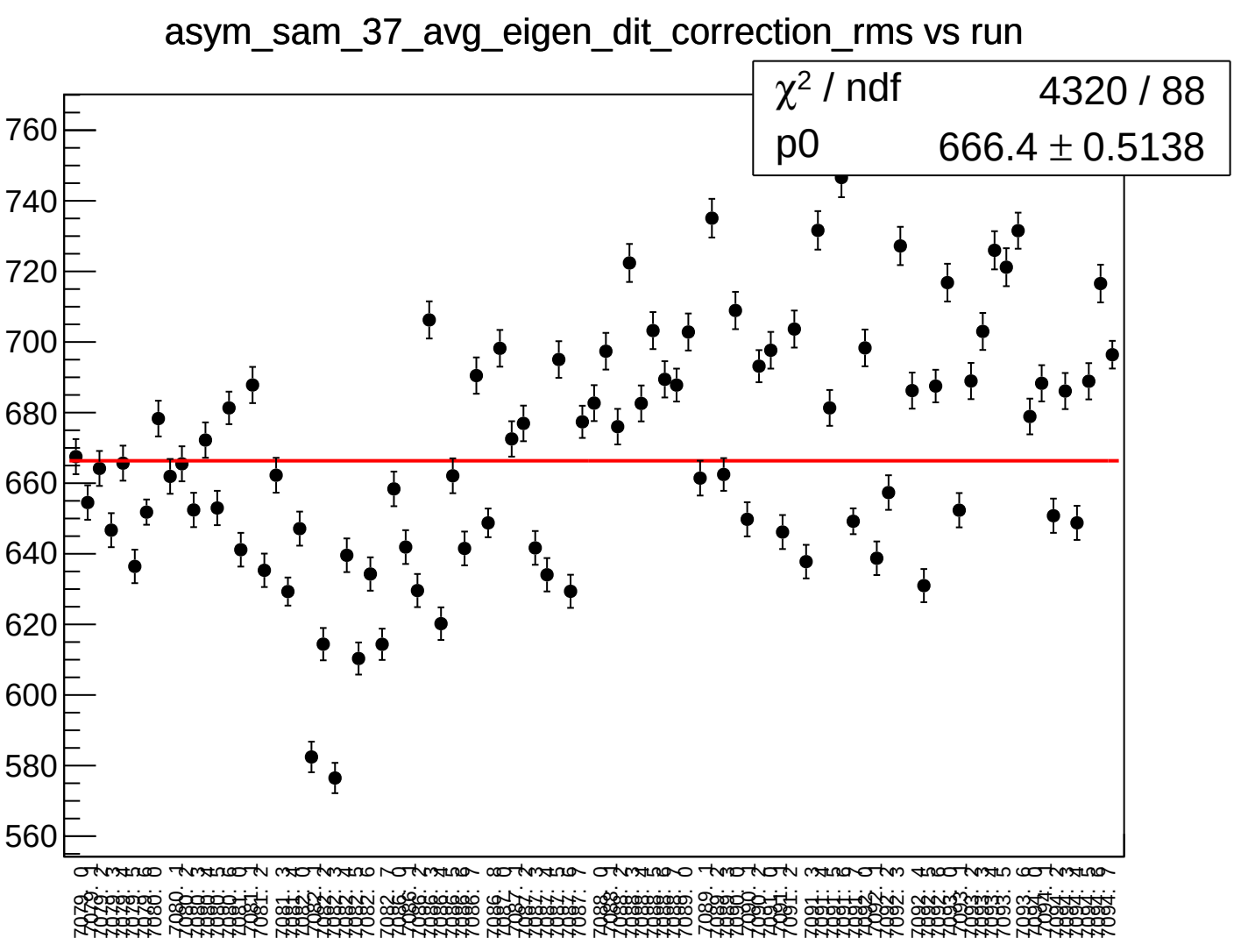

pull1D
Entries 89
Mean 0.005293
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

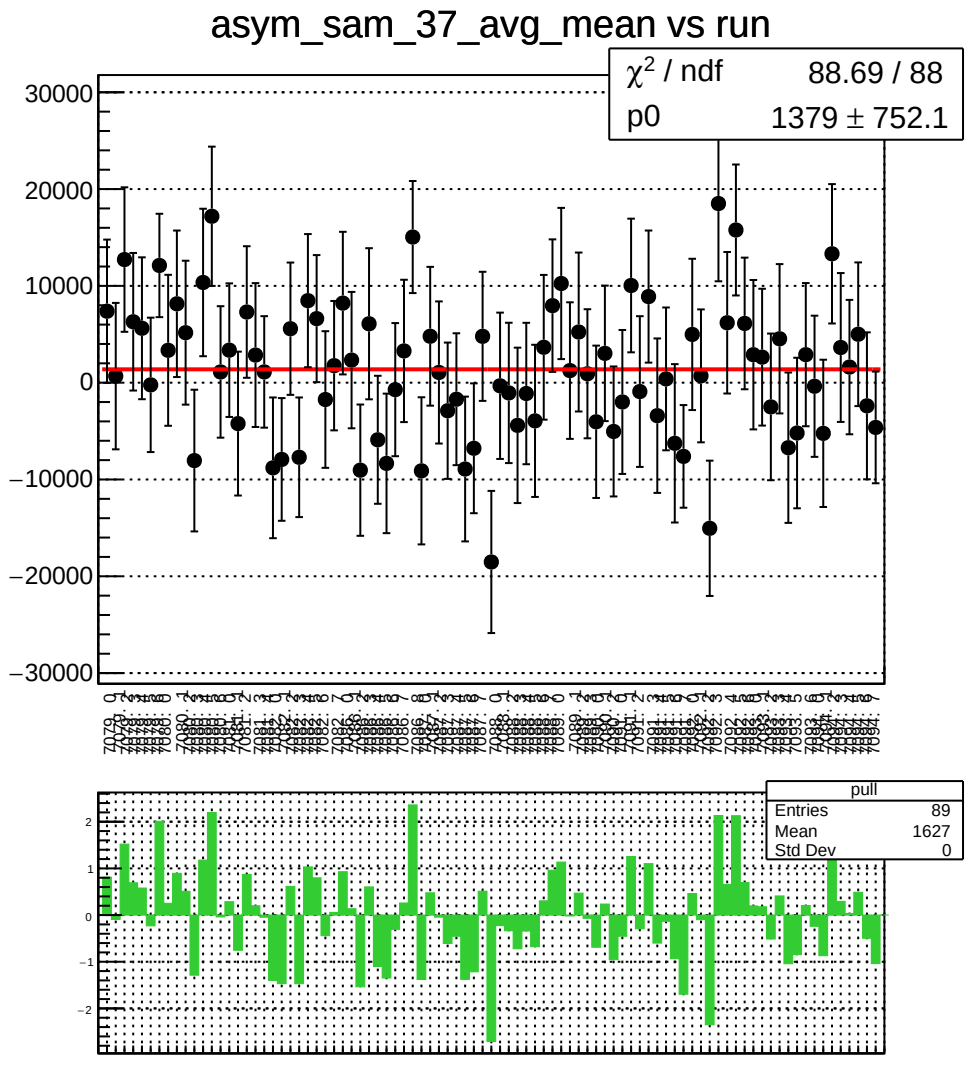

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 4320 / 88
p0 666.4 ± 0.5138
760
740
720
700
680
660
640
620
600
580
560

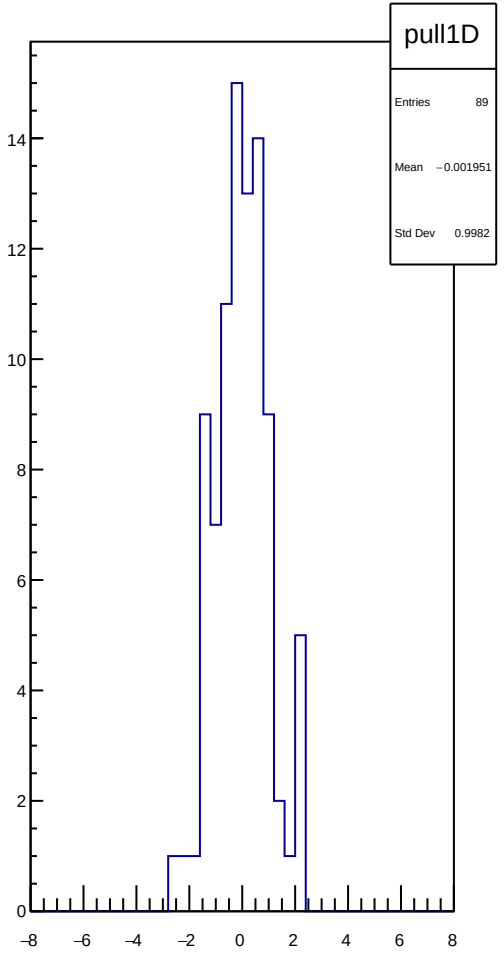

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 78.04 / 88
p0 124.9 ± 84.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −209.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.007024
Std Dev 0.9364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

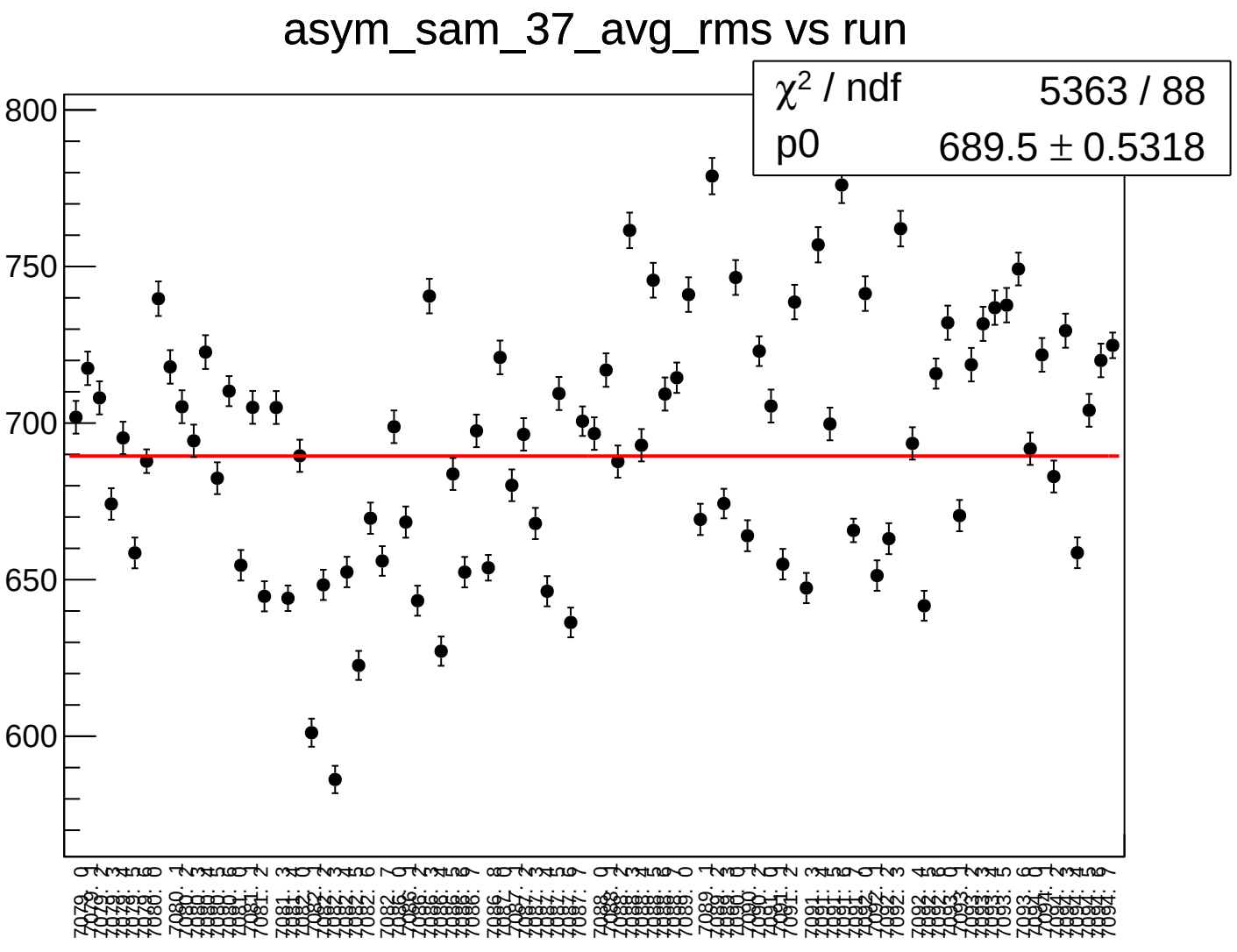

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.426e+04 / 88
p0 76.61 ± 0.05961
140
130
120
110
100
90
80
70
60

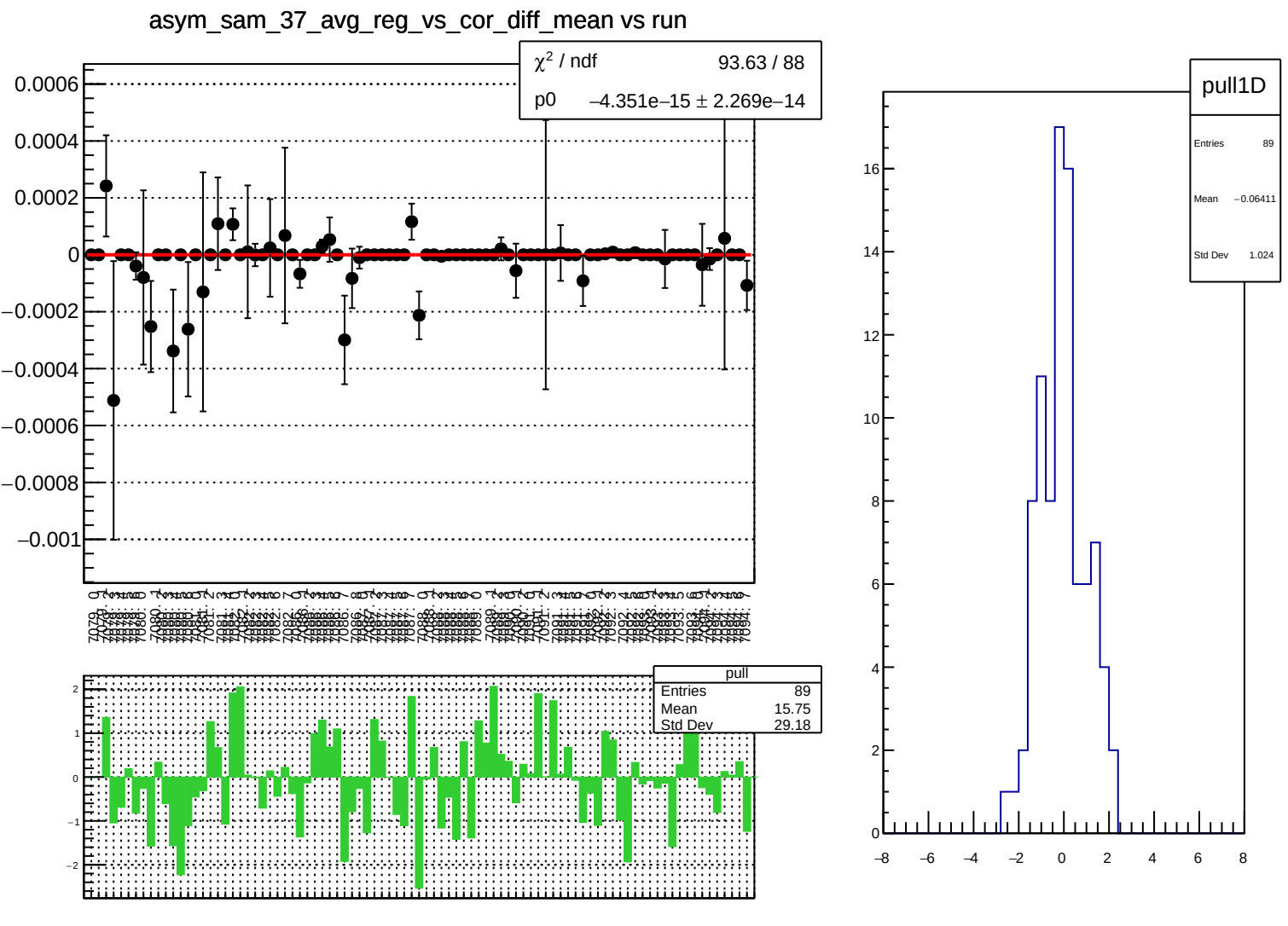

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.98 / 88
p0 −1289 ± 726.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 623.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.005293
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

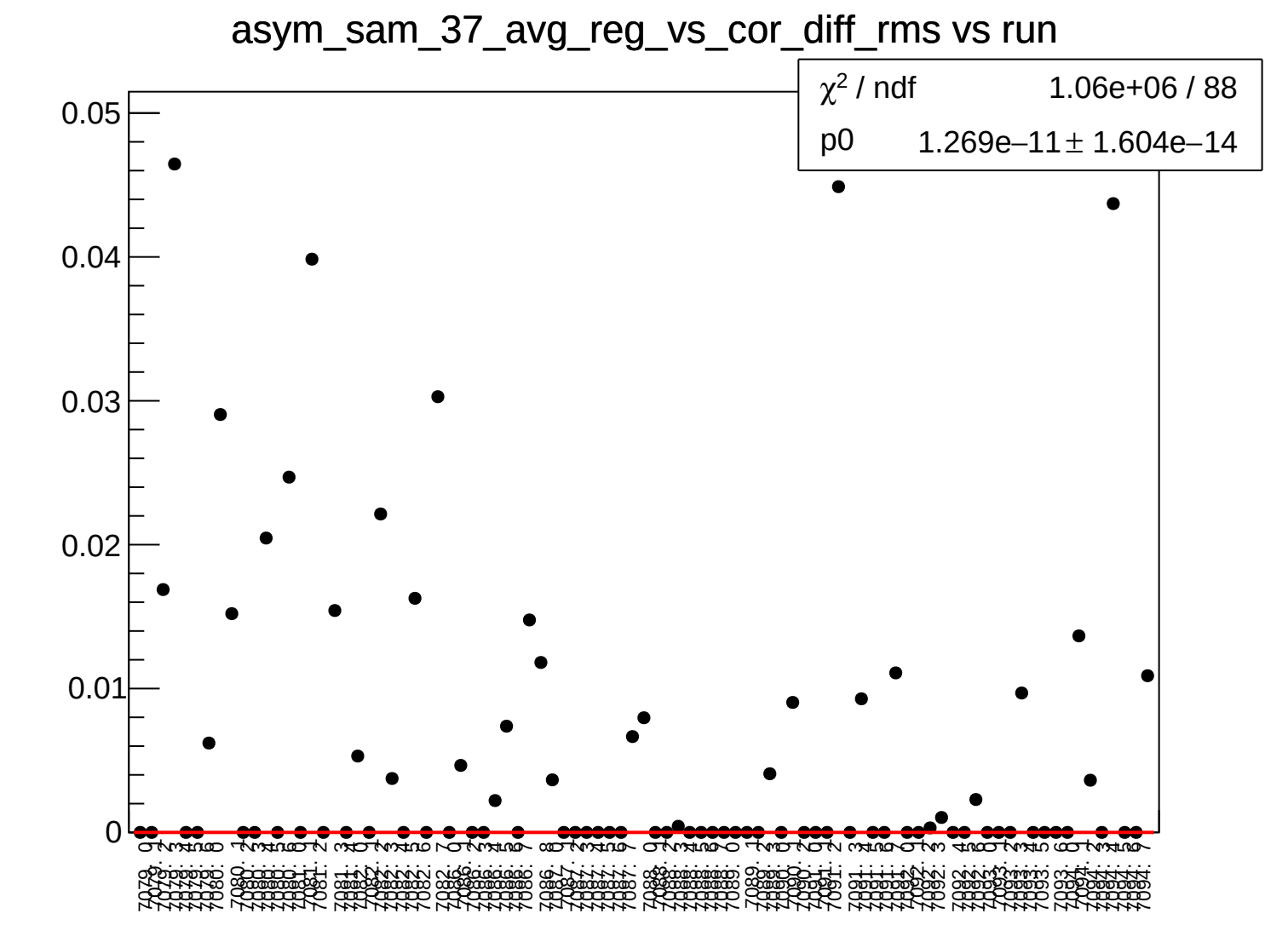

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 4320 / 88
p0 666.4 ± 0.5138
760
740
720
700
680
660
640
620
600
580
560

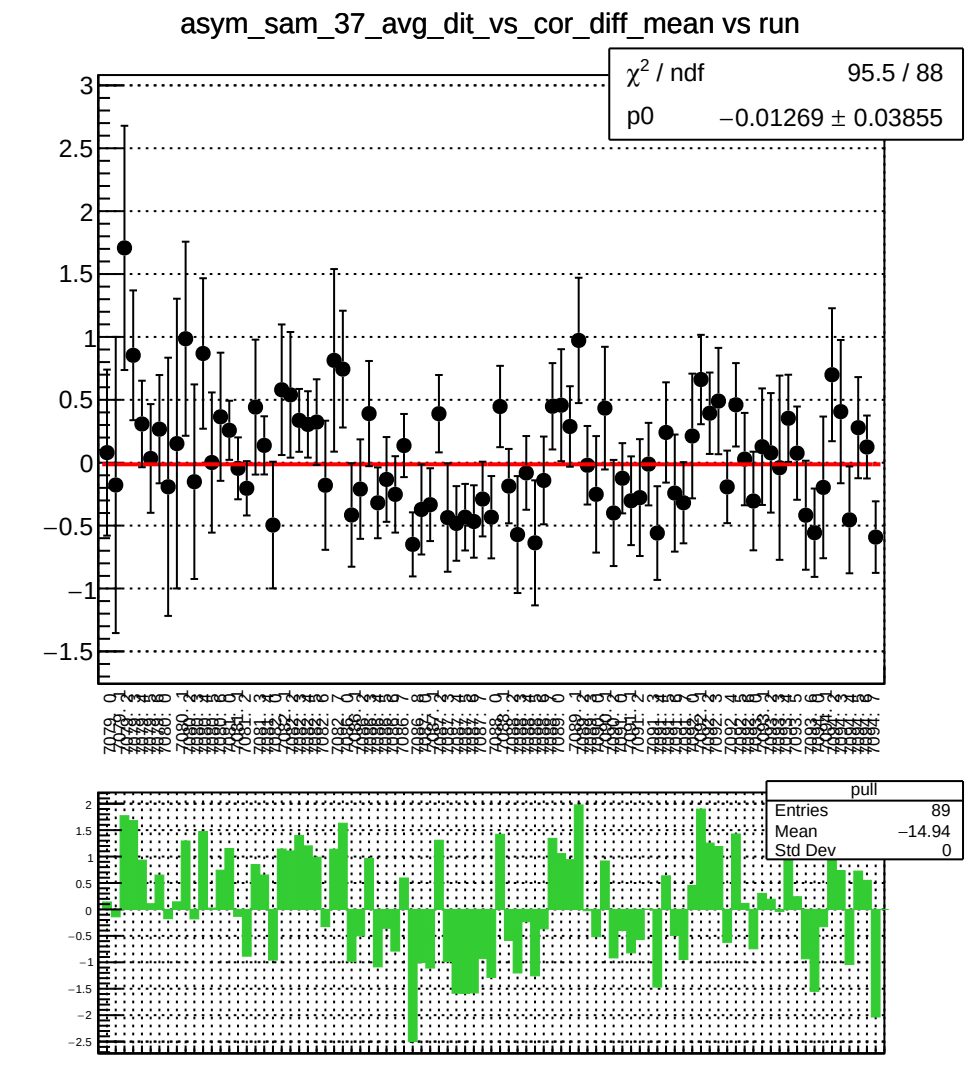

asym_sam_37_avg_mean vs run
χ² / ndf 88.69 / 88
p0 1379 ± 752.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1627
Std Dev 0
2
1
0
−1
−2

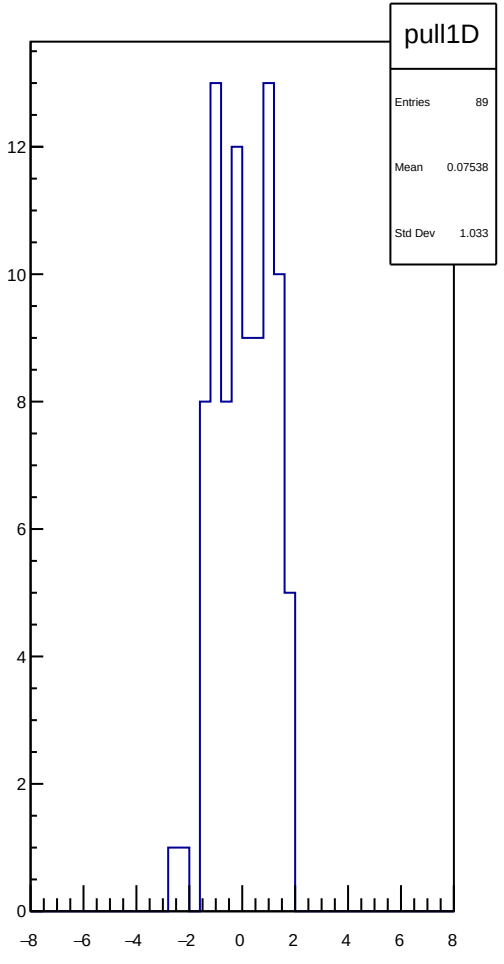

pull1D
Entries 89
Mean −0.001951
Std Dev 0.9982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

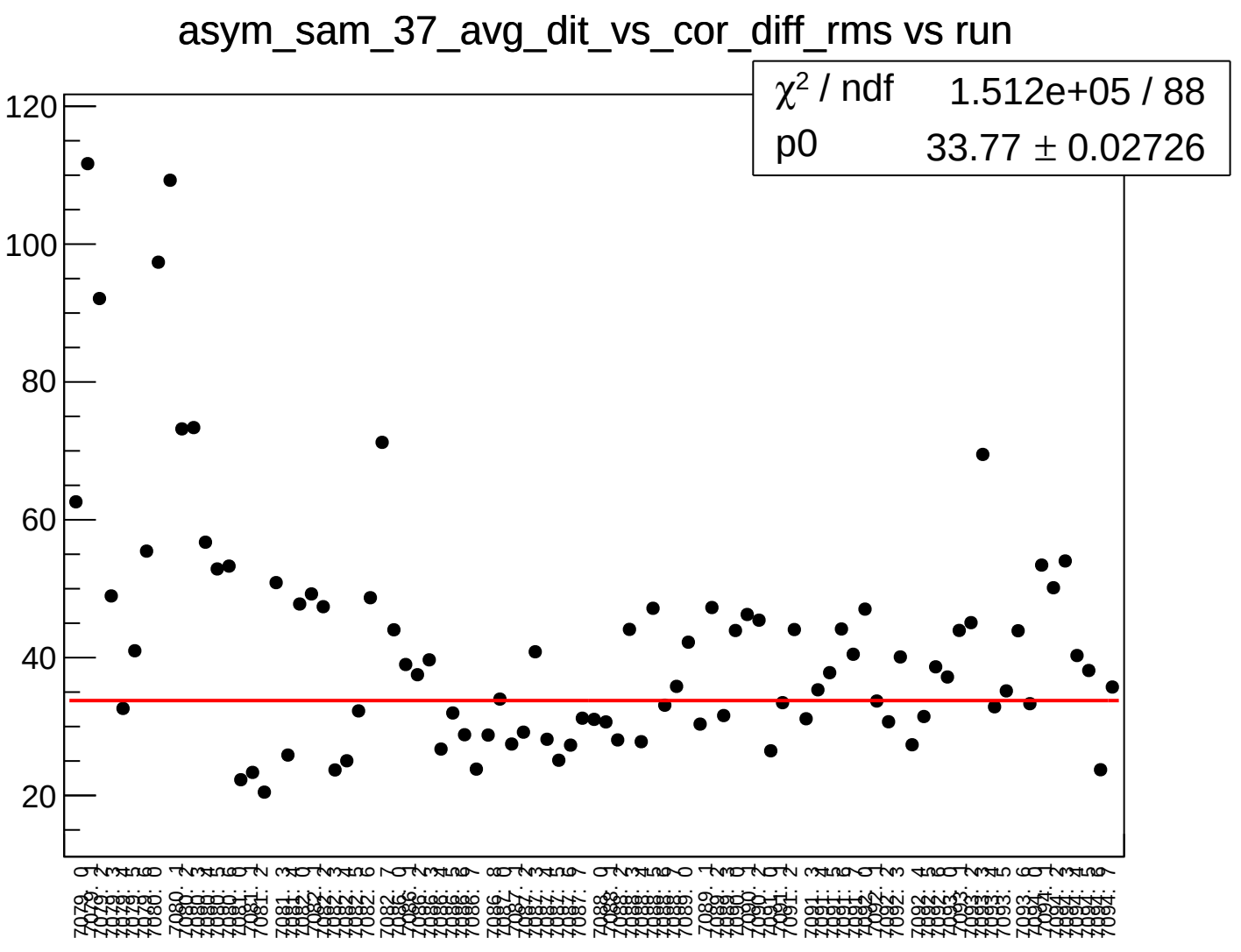

asym_sam_37_avg_rms vs run
χ² / ndf 5363 / 88
p0 689.5 ± 0.5318
800
750
700
650
600

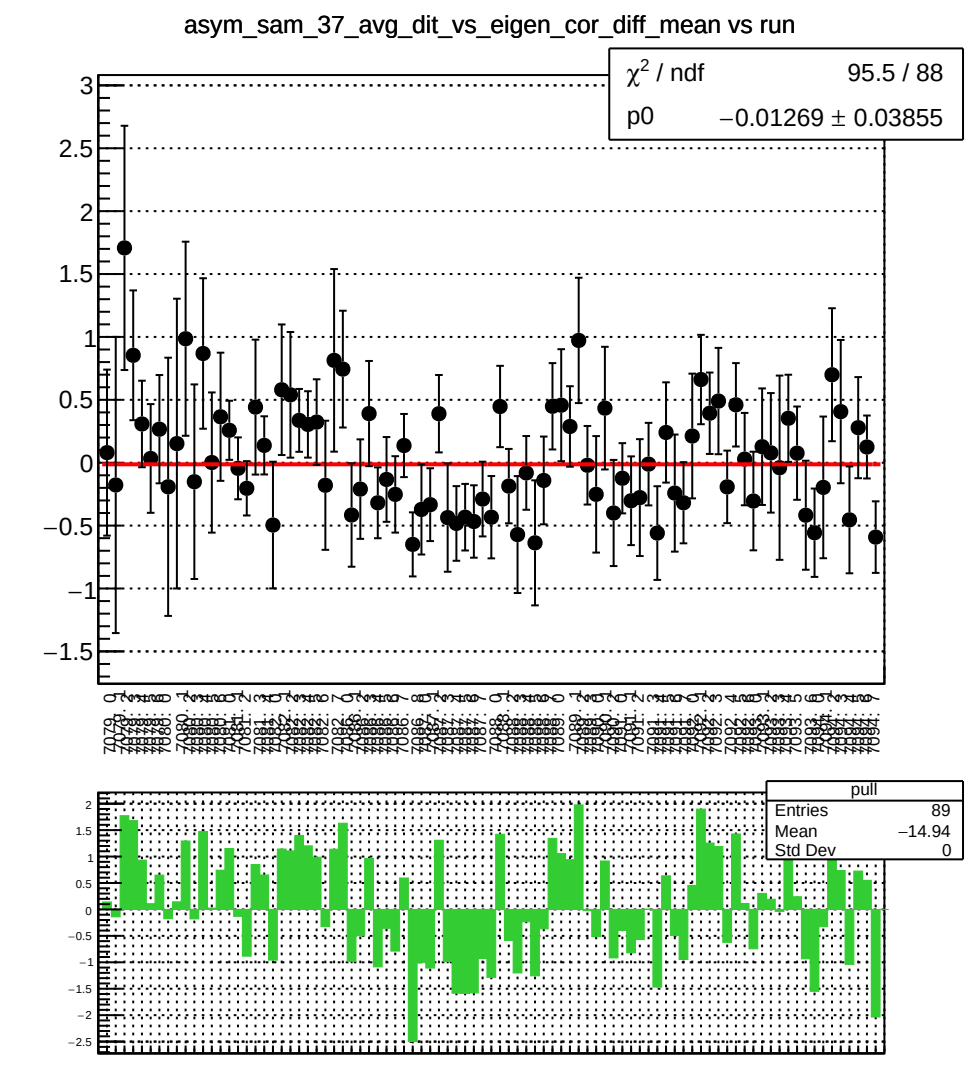

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.63 / 88
p0 −4.351e−15 ± 2.269e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 89
Mean 15.75
Std Dev 29.18
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.06411
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

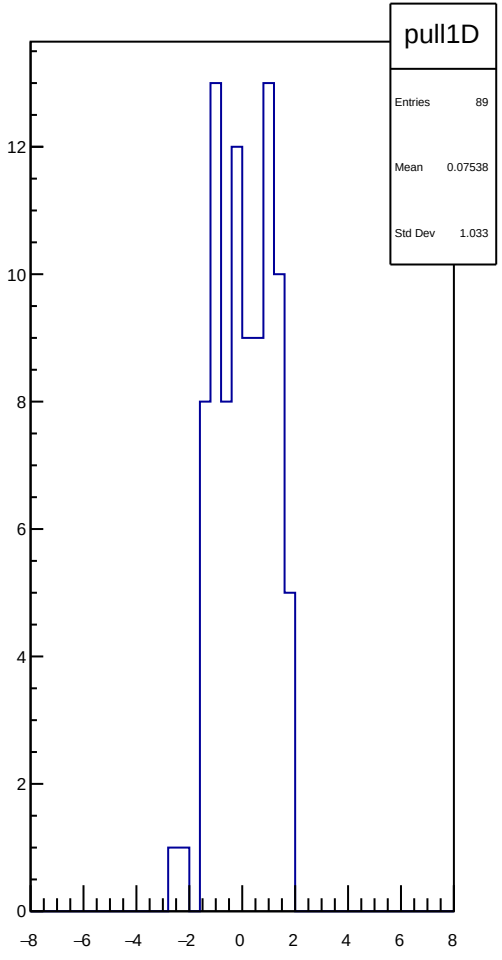

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 88
p0 1.269e−11 ± 1.604e−14
0.05
0.04
0.03
0.02
0.01
0

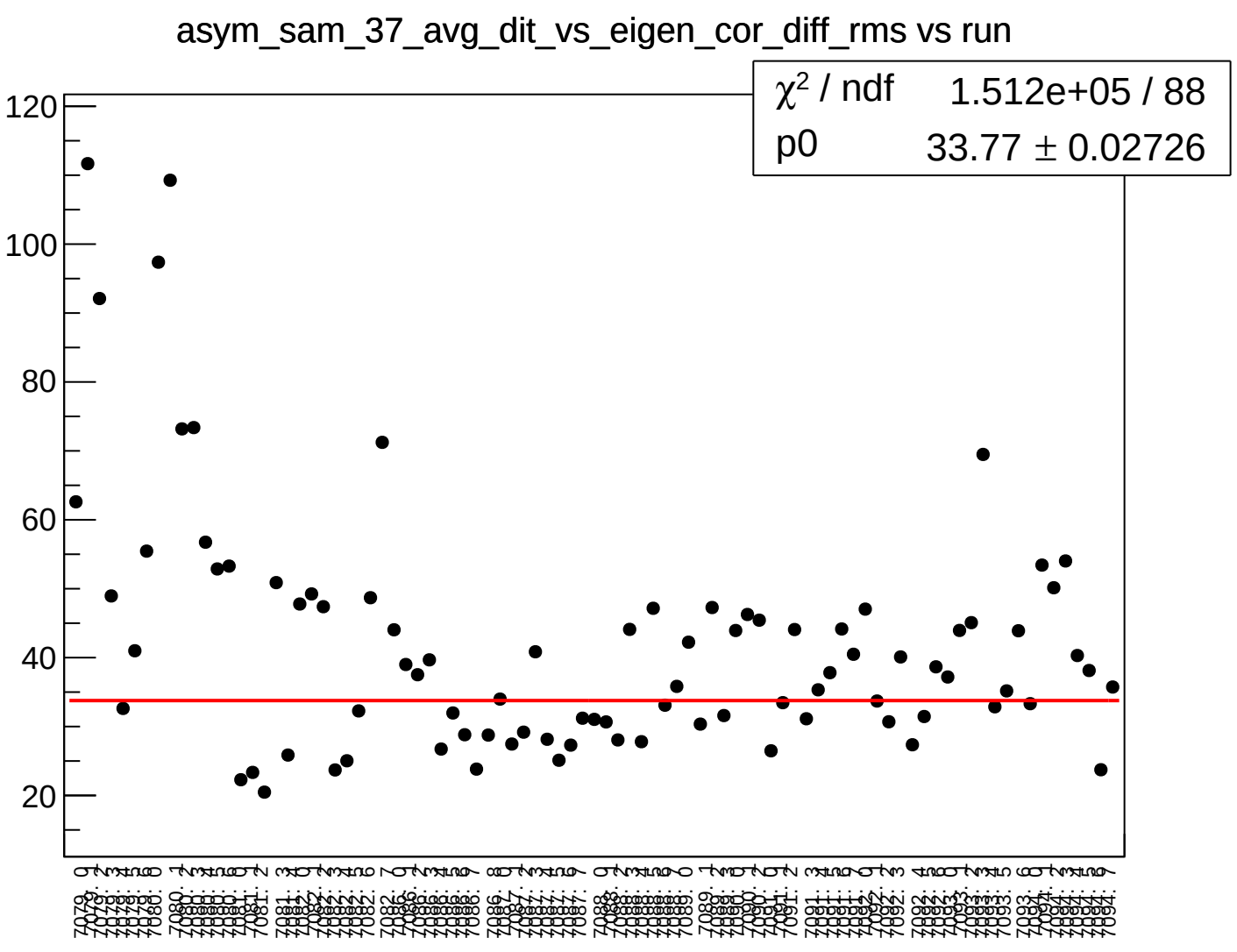

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.5 / 88
p0 −0.01269 ± 0.03855
pull
Entries 89
Mean −14.94
Std Dev 0

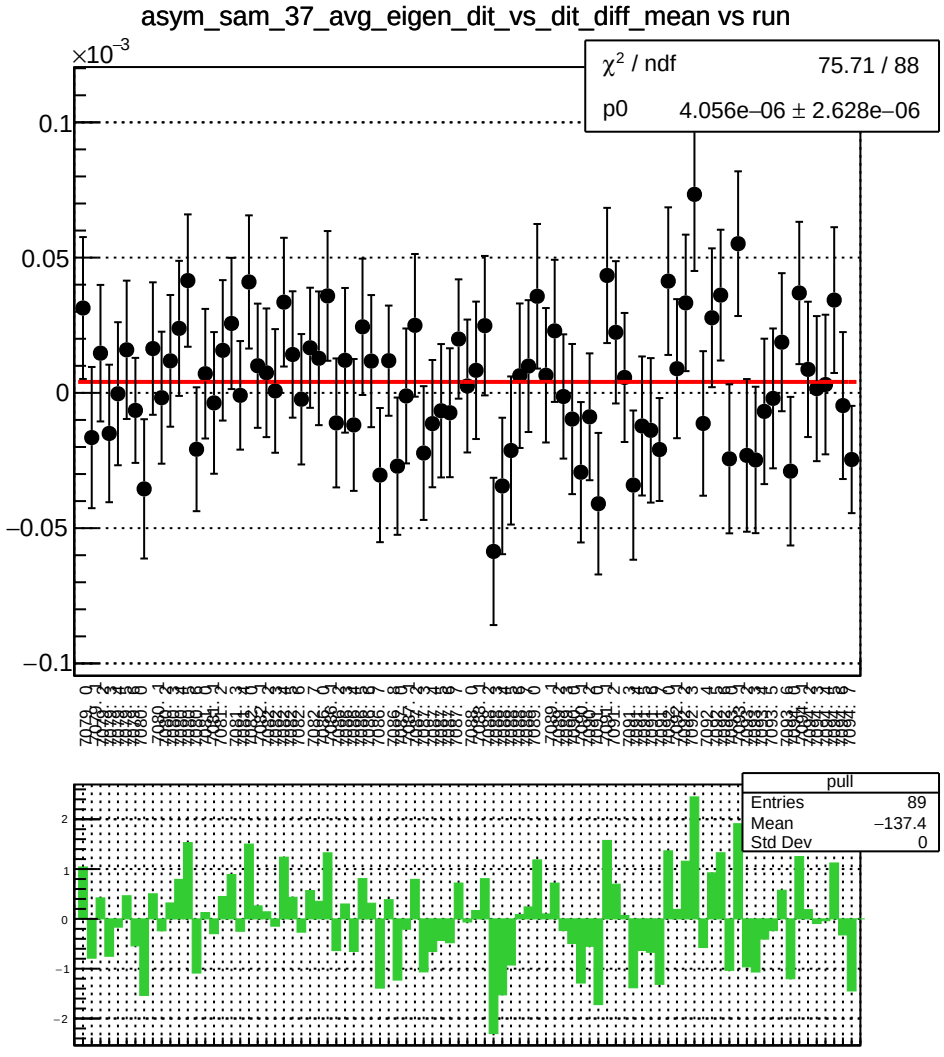

pull1D
Entries 89
Mean 0.07538
Std Dev 1.033

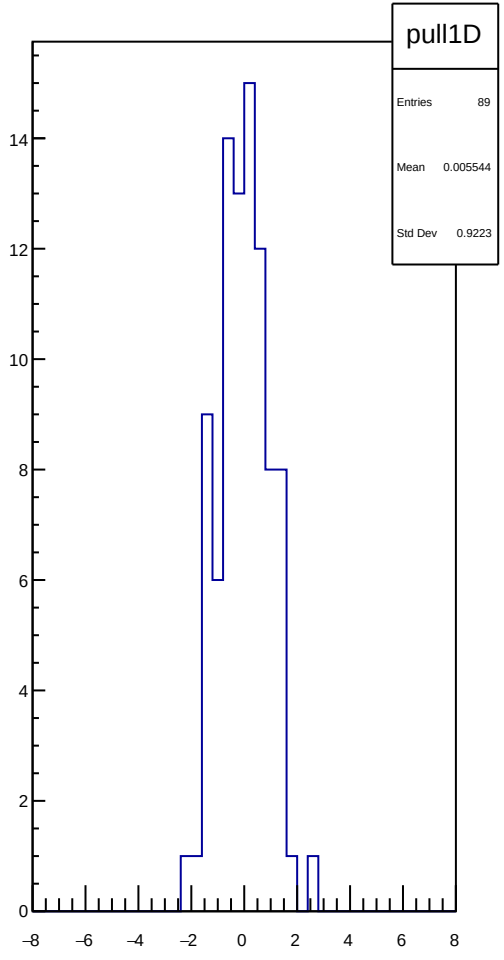

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.512e+05 / 88
p0 33.77 ± 0.02726
120
100
80
60
40
20

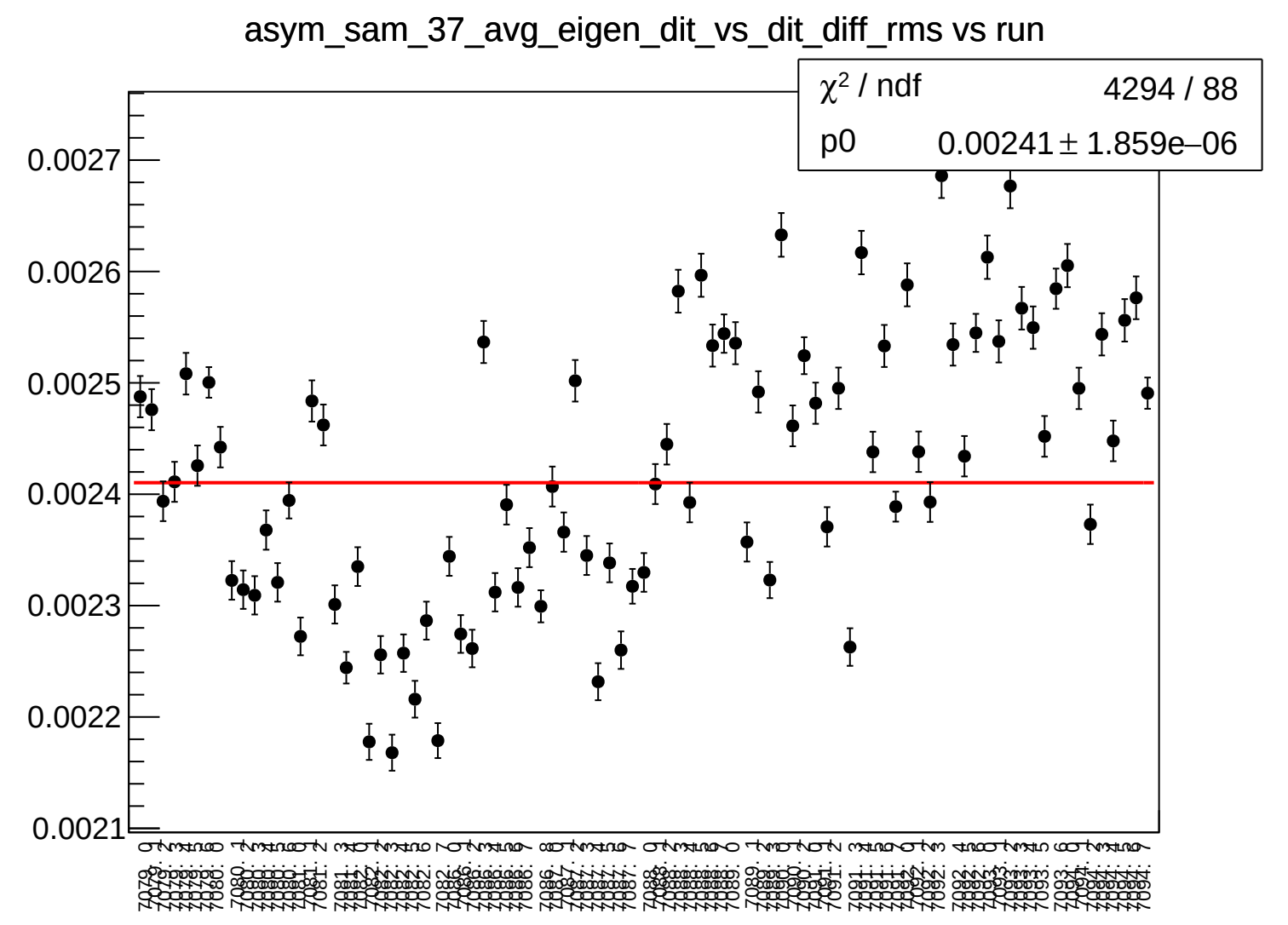

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.5 / 88
p0 −0.01269 ± 0.03855
pull
Entries 89
Mean −14.94
Std Dev 0

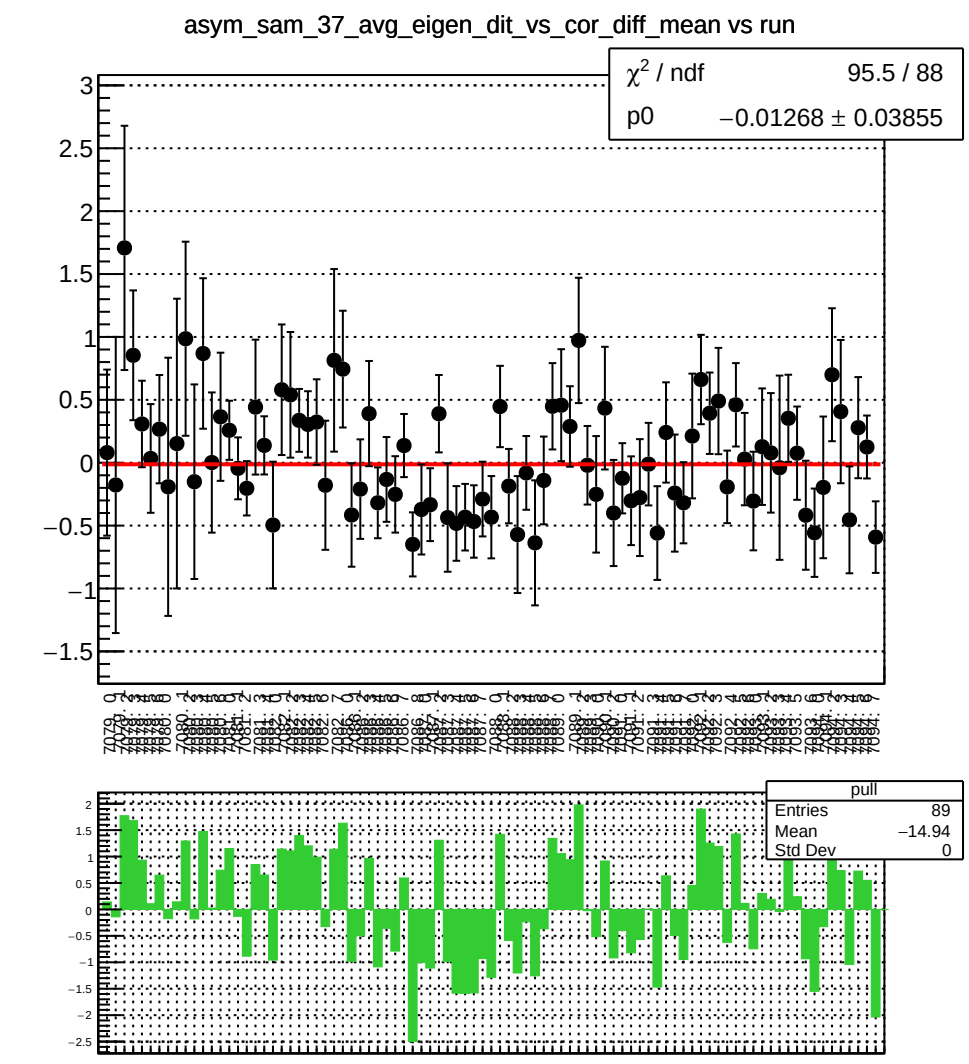

pull1D
Entries 89
Mean 0.07538
Std Dev 1.033

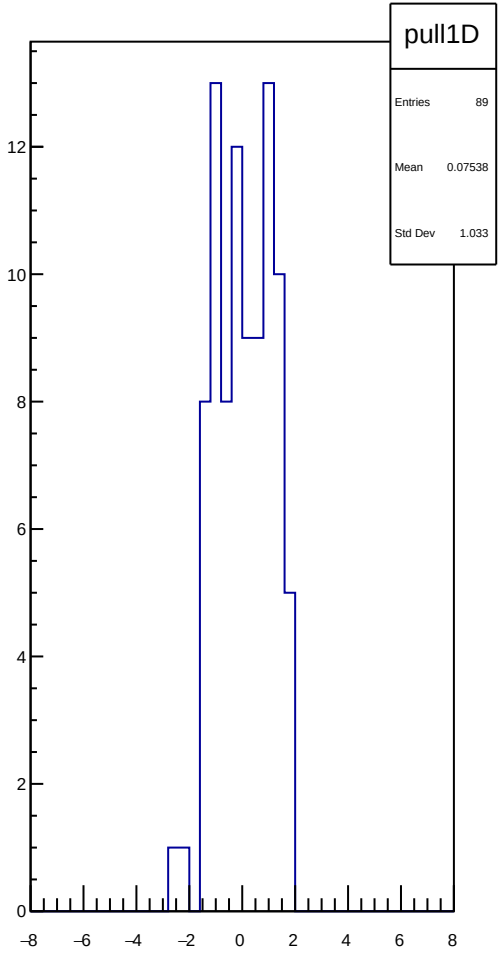

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.512e+05 / 88
p0 33.77 ± 0.02726
120
100
80
60
40
20

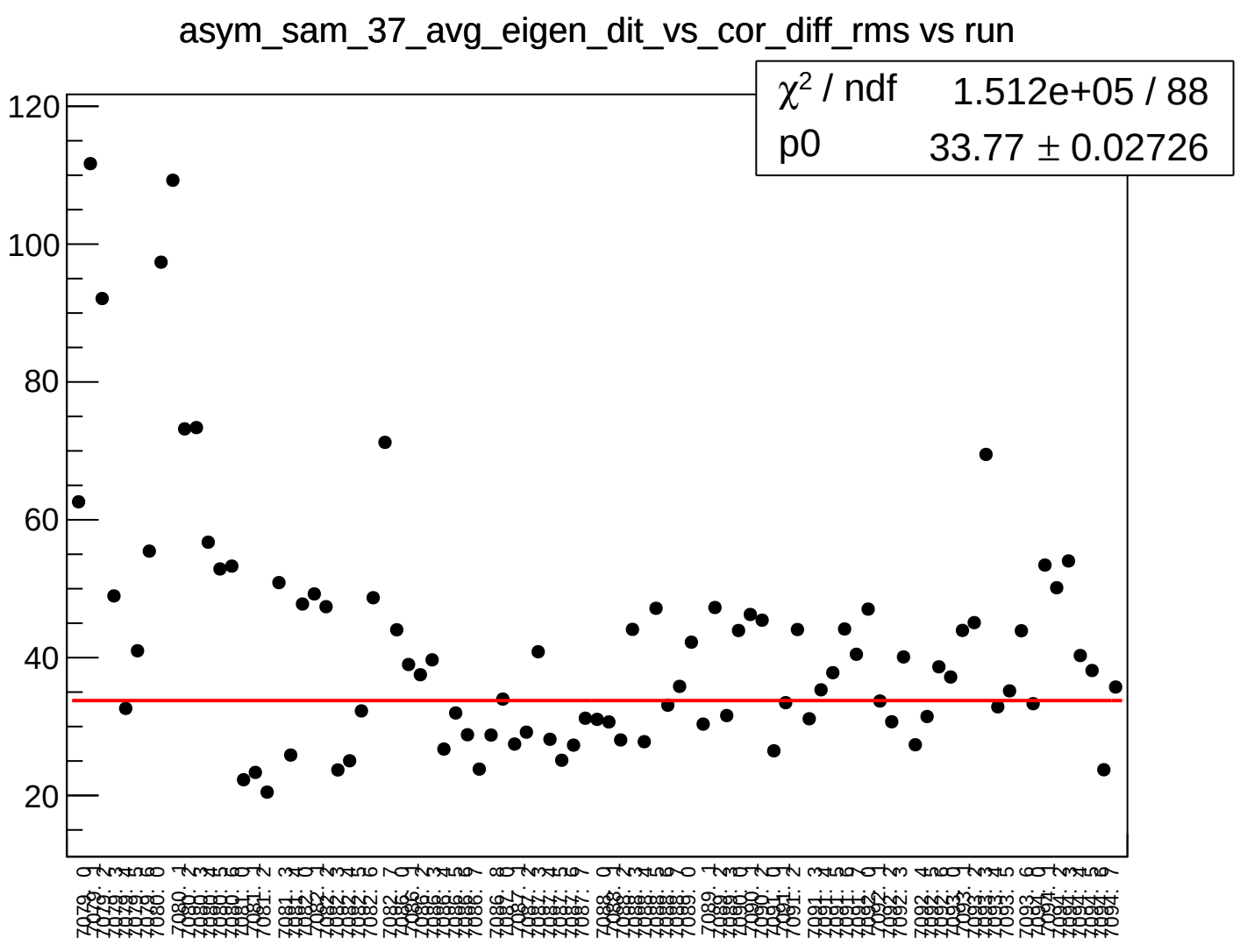

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.71 / 88
p0 4.056e−06 ± 2.628e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −137.4
Std Dev 0
2
1
0
−1
−2

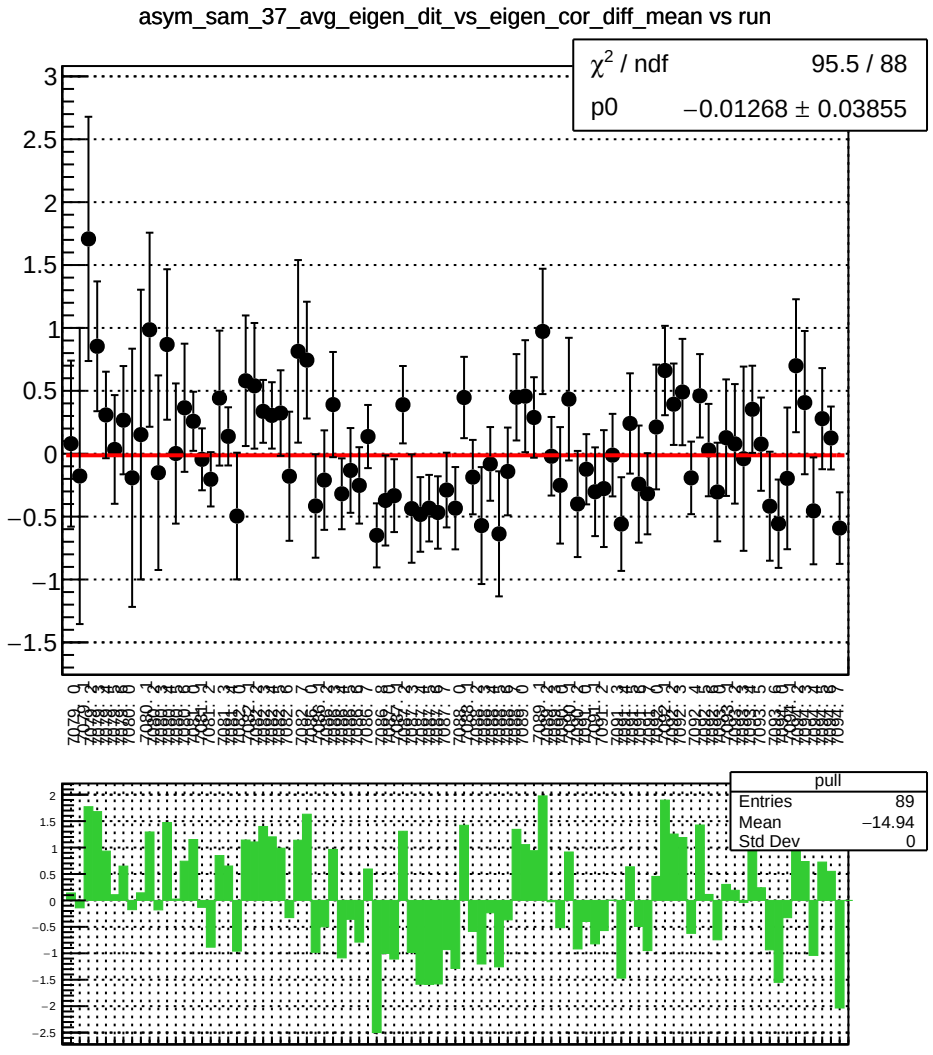

pull1D
Entries 89
Mean 0.005544
Std Dev 0.9223
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

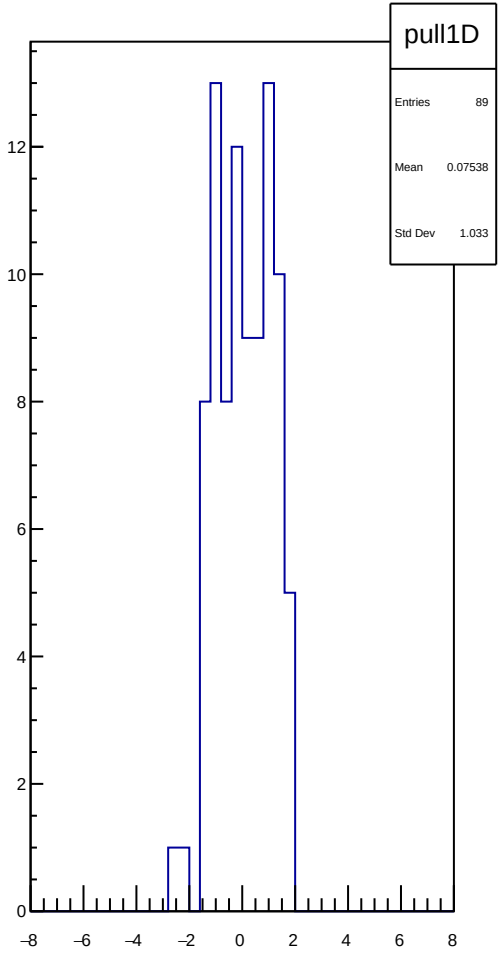

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4294 / 88
p0 0.00241 ± 1.859e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

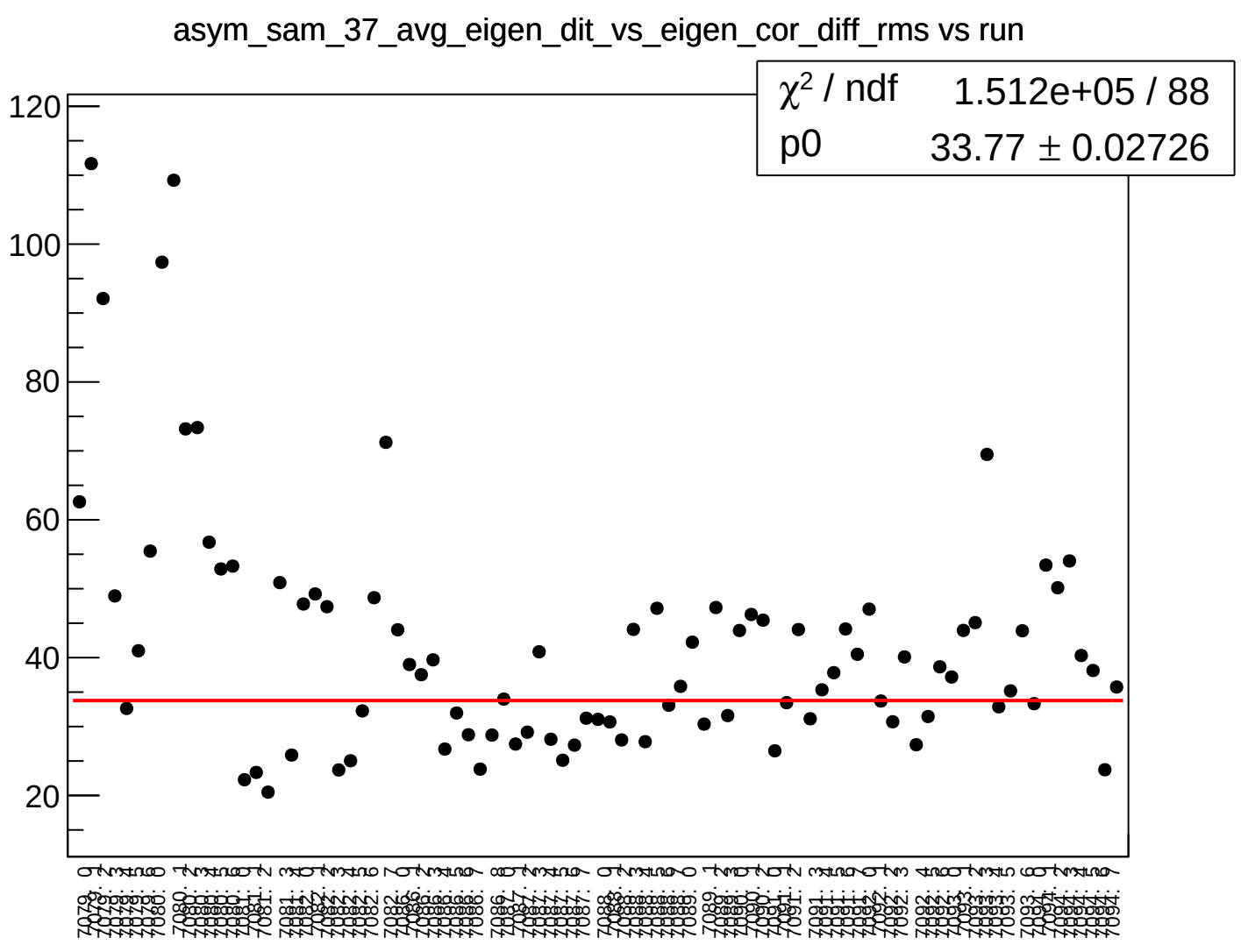

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.5 / 88
p0 −0.01268 ± 0.03855
pull
Entries 89
Mean −14.94
Std Dev 0

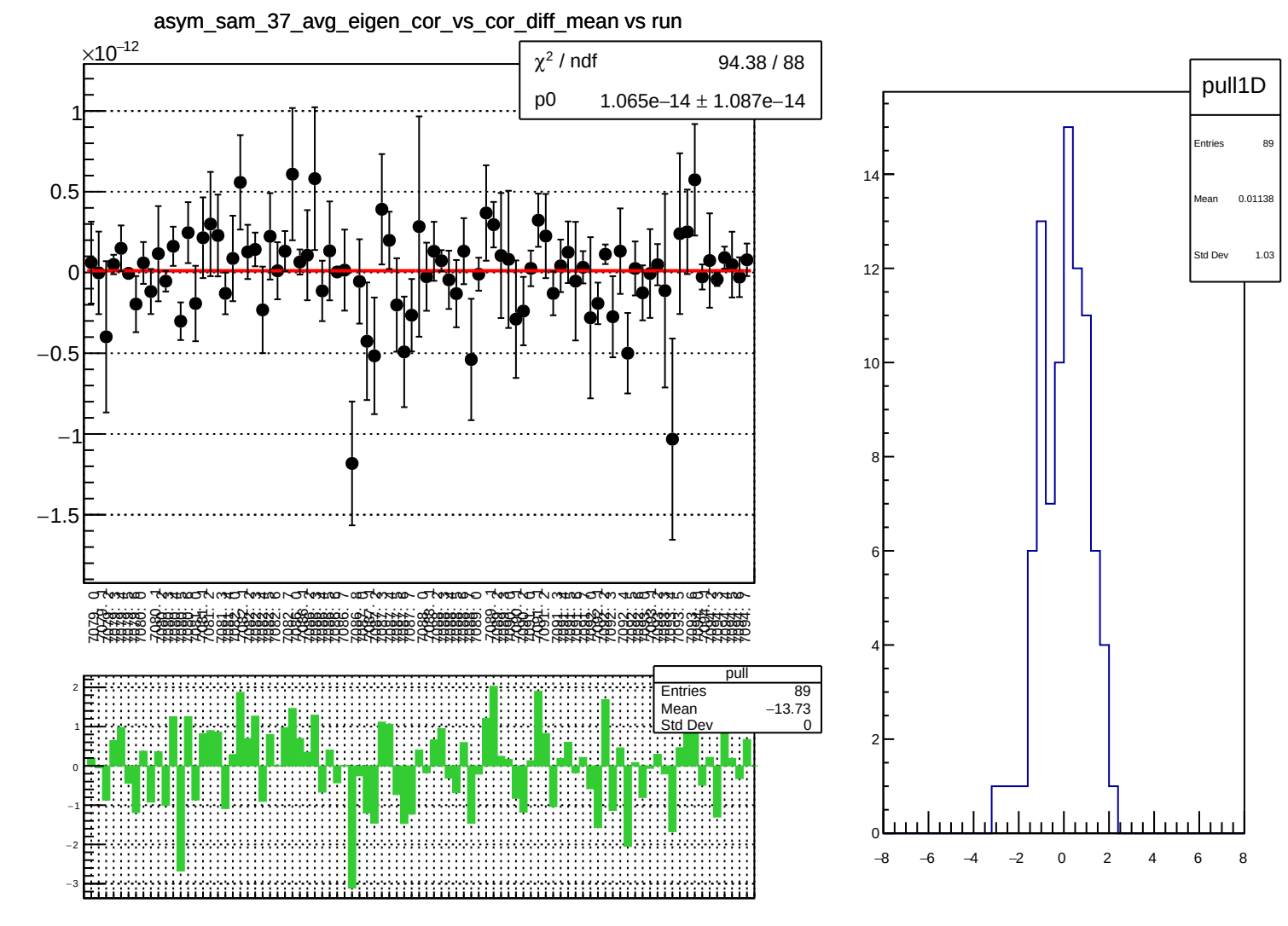

pull1D
Entries 89
Mean 0.07538
Std Dev 1.033

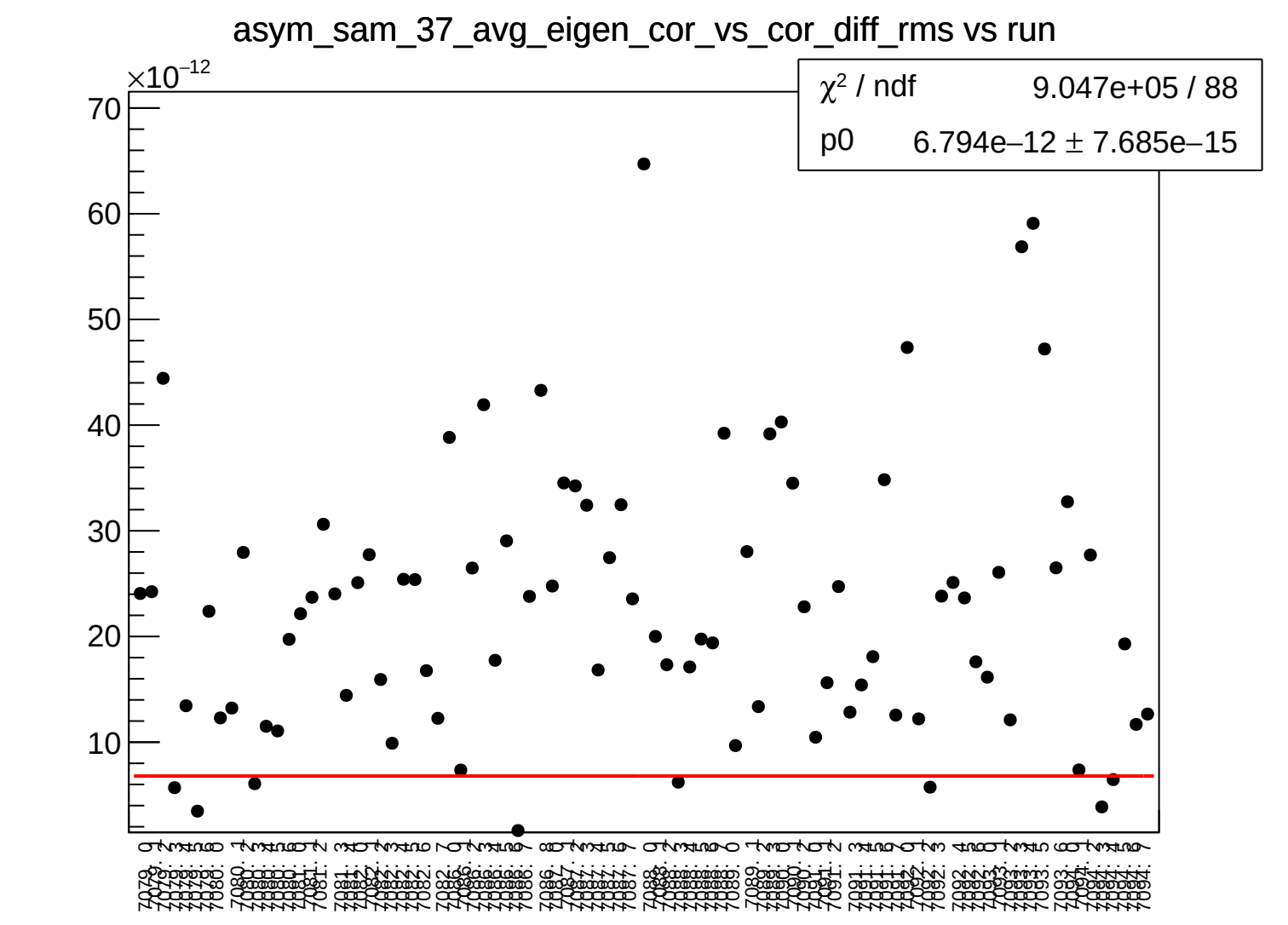

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.512e+05 / 88
p0 33.77 ± 0.02726
120
100
80
60
40
20

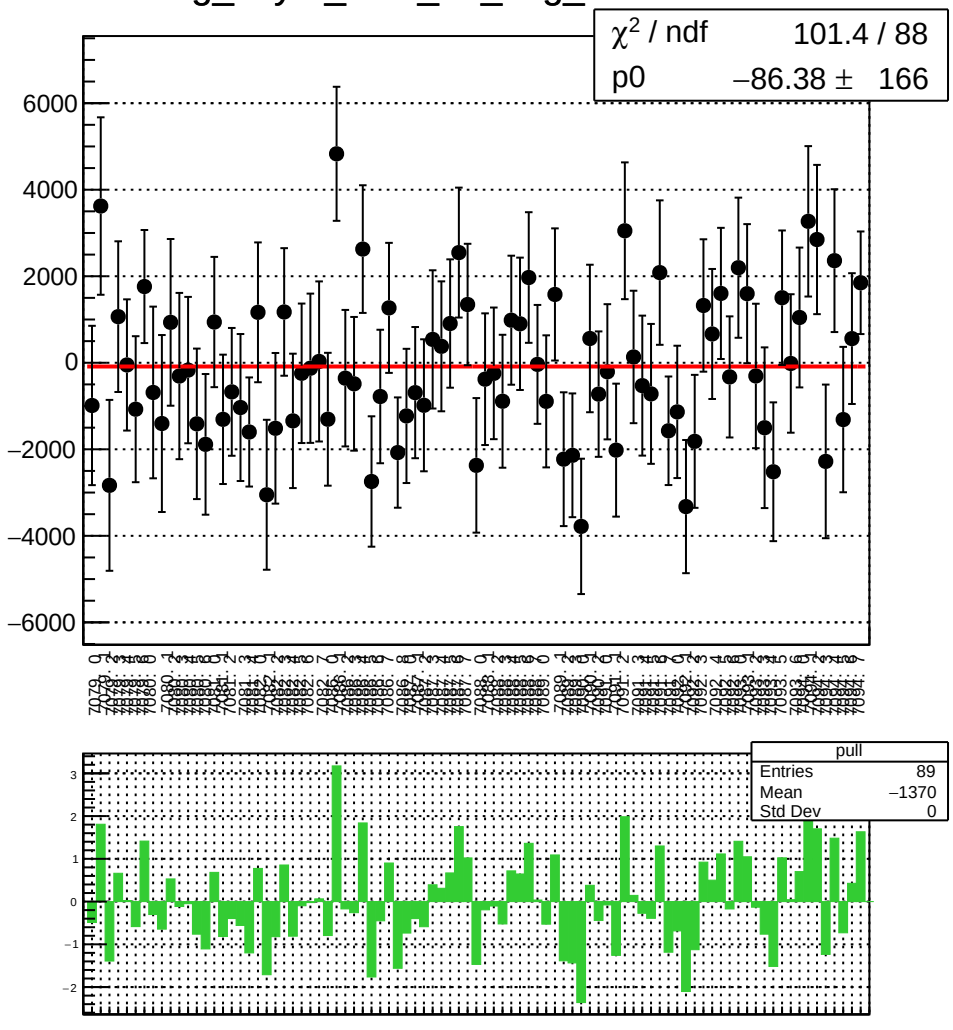

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.5 / 88
p0 −0.01268 ± 0.03855
pull
Entries 89
Mean −14.94
Std Dev 0

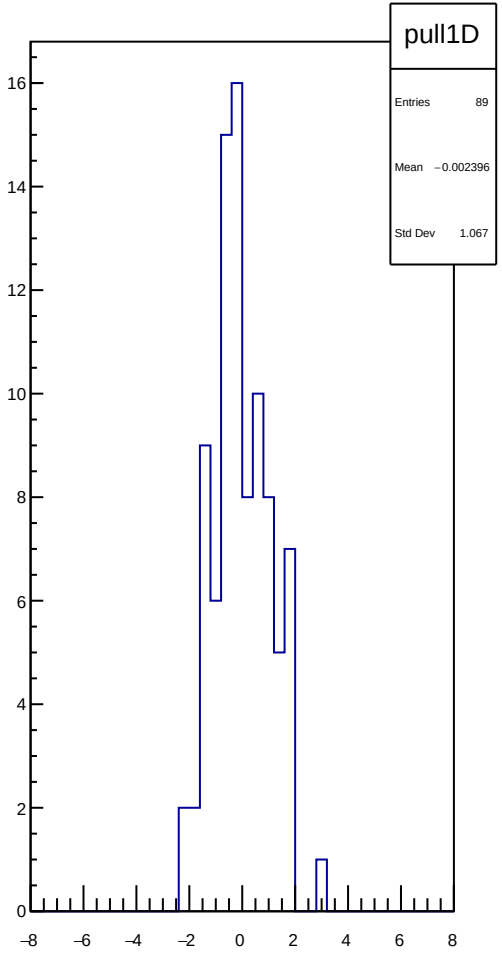

pull1D
Entries 89
Mean 0.07538
Std Dev 1.033

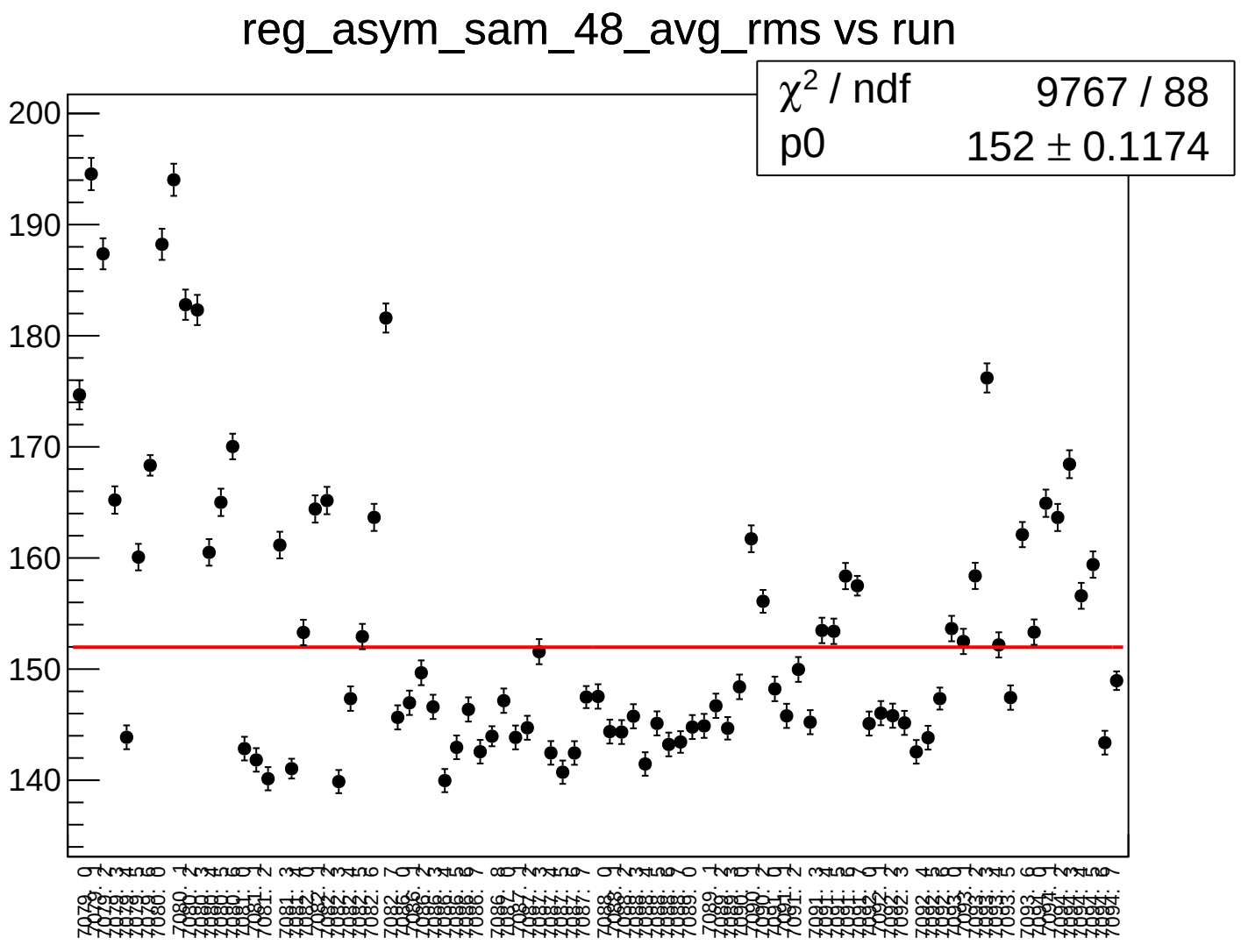

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.512e+05 / 88
p0 33.77 ± 0.02726
120
100
80
60
40
20

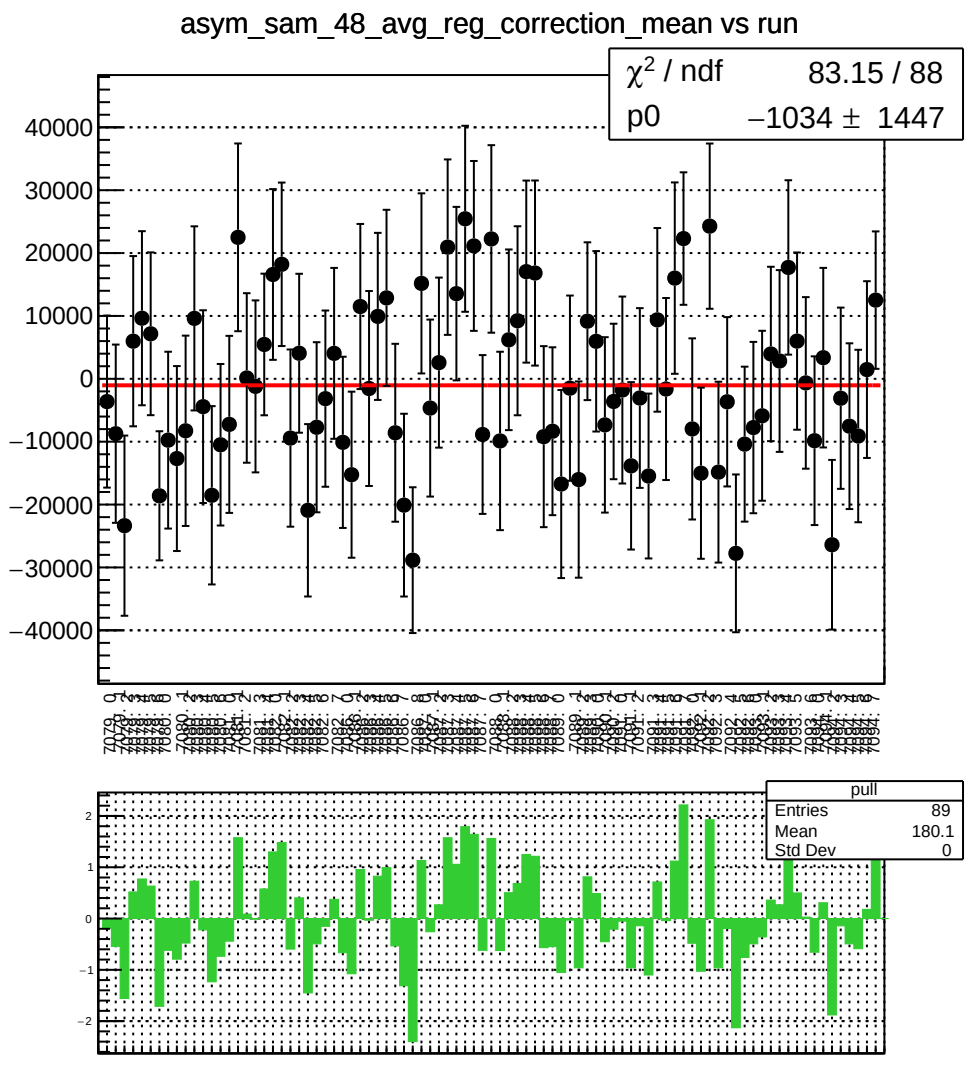

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.38 / 88
p0 1.065e−14 ± 1.087e−14
1
0.5
0
−0.5
−1
−1.5
pull
Entries 89
Mean −13.73
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.01138
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

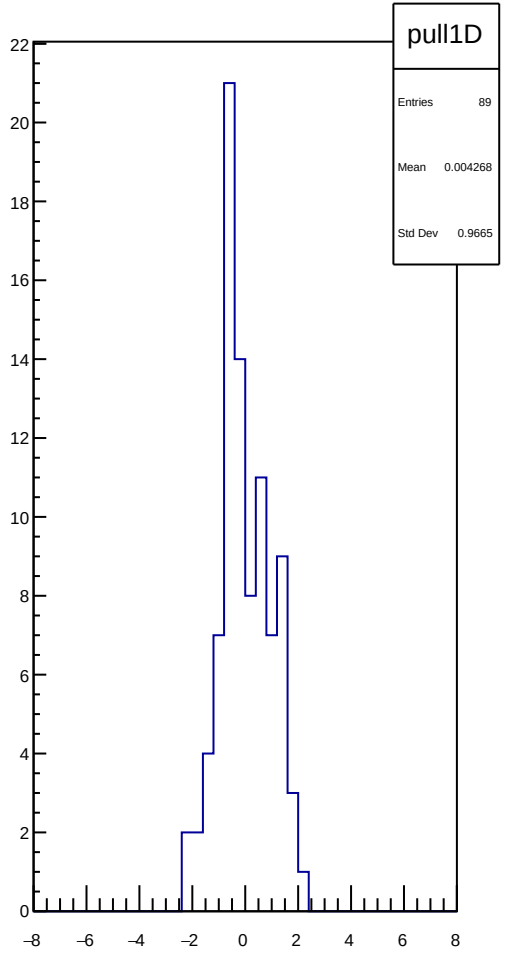

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 9.047e+05 / 88
p0 6.794e−12 ± 7.685e−15

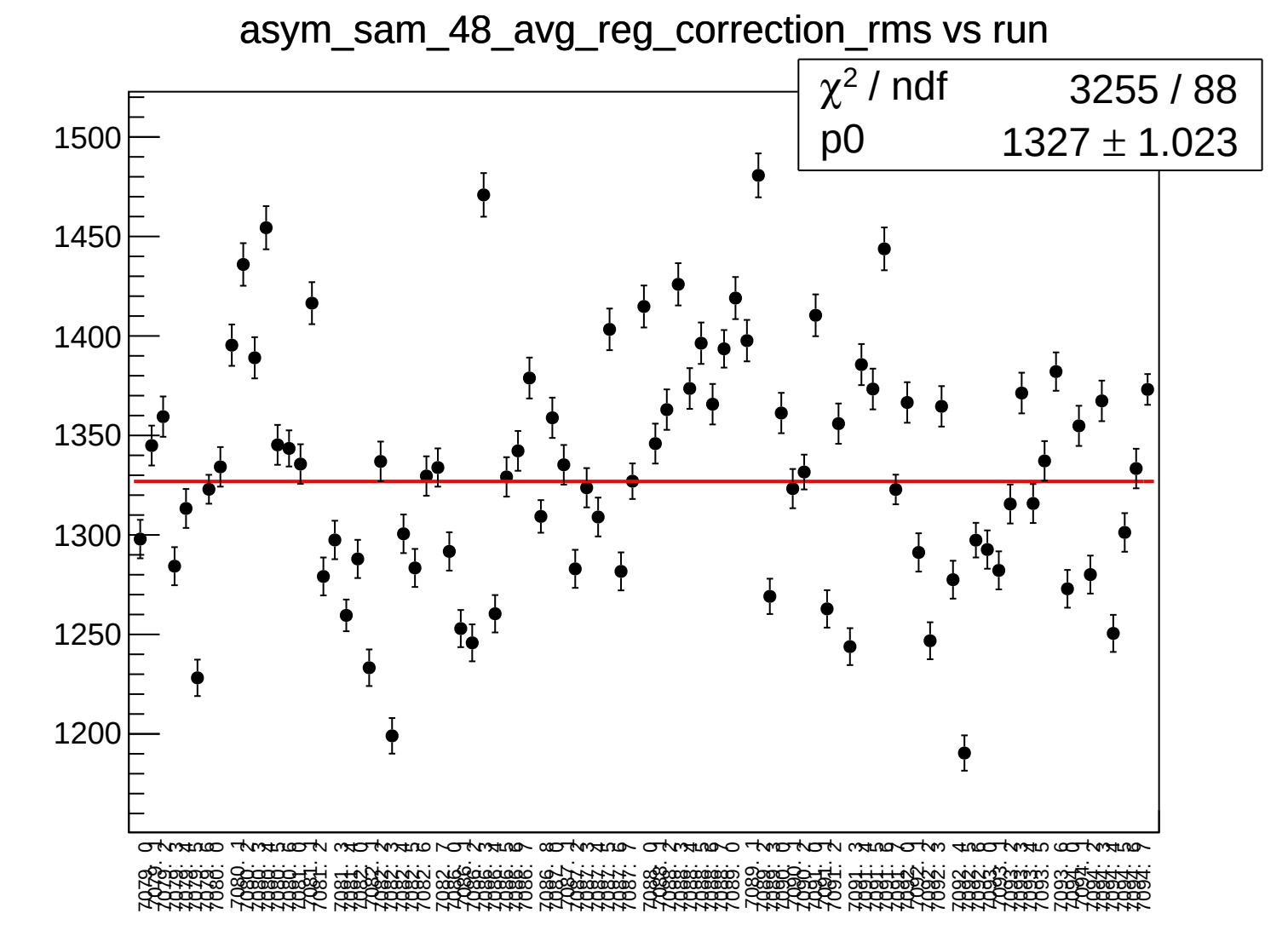

reg_asym_sam_48_avg_mean vs run
χ² / ndf 101.4 / 88
p0 −86.38 ± 166
pull
Entries 89
Mean −1370
Std Dev 0

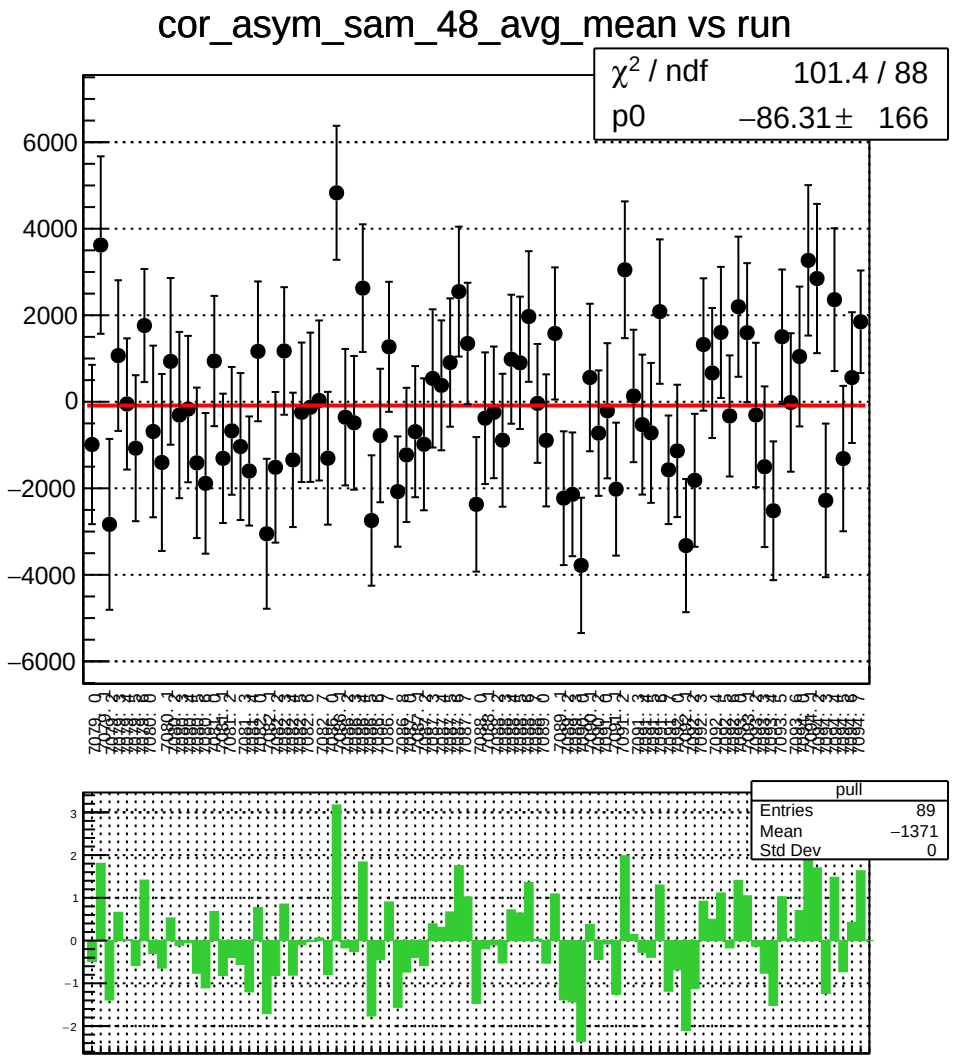

pull1D
Entries 89
Mean −0.002396
Std Dev 1.067

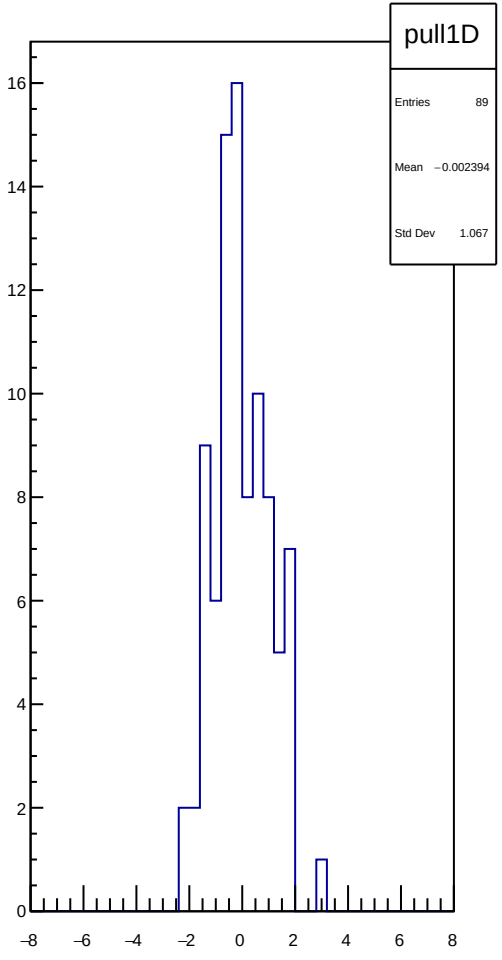

reg_asym_sam_48_avg_rms vs run
χ² / ndf 9767 / 88
p0 152 ± 0.1174
200
190
180
170
160
150
140

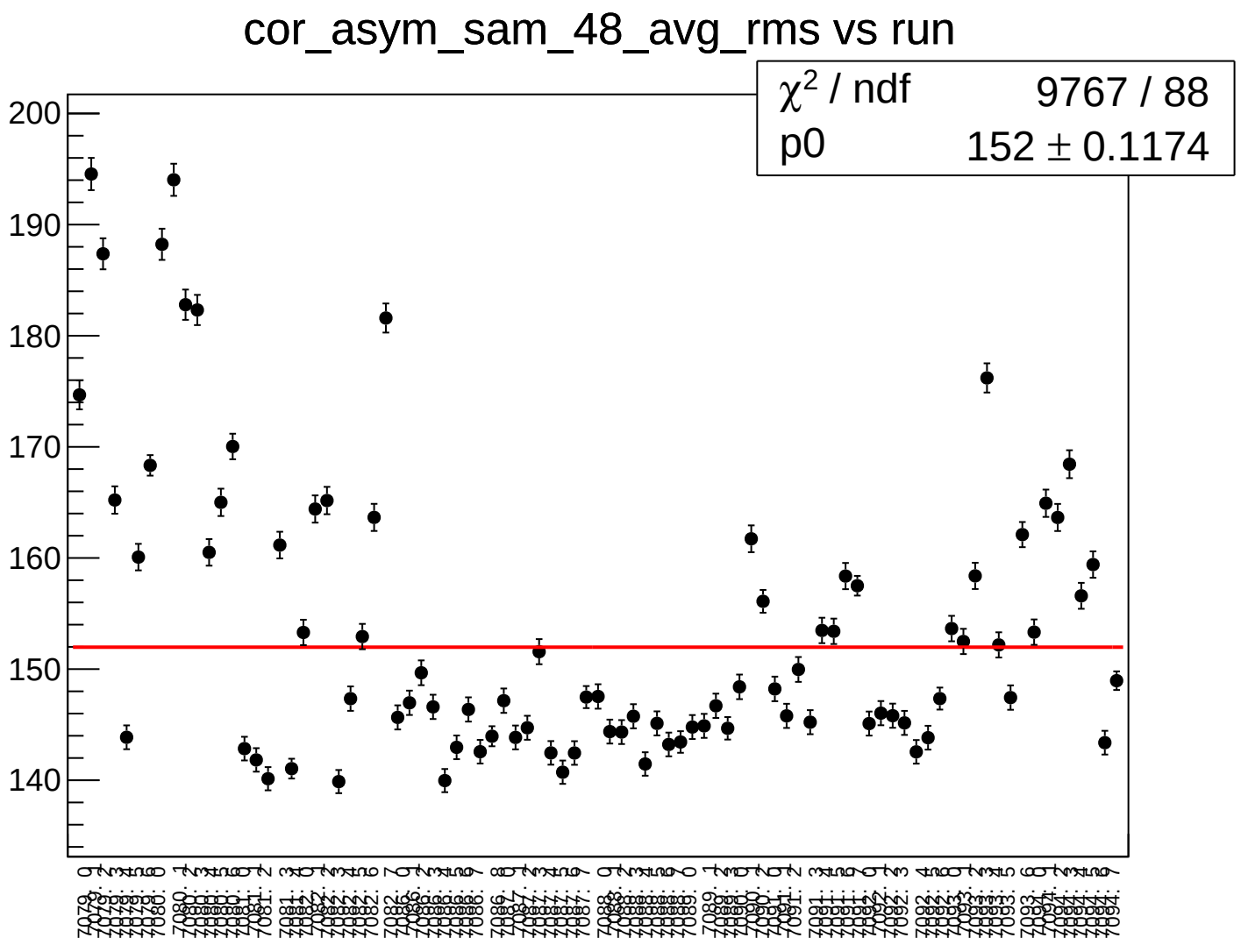

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 83.15 / 88
p0 −1034 ± 1447
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 180.1
Std Dev 0
2
1
0
−1
−2

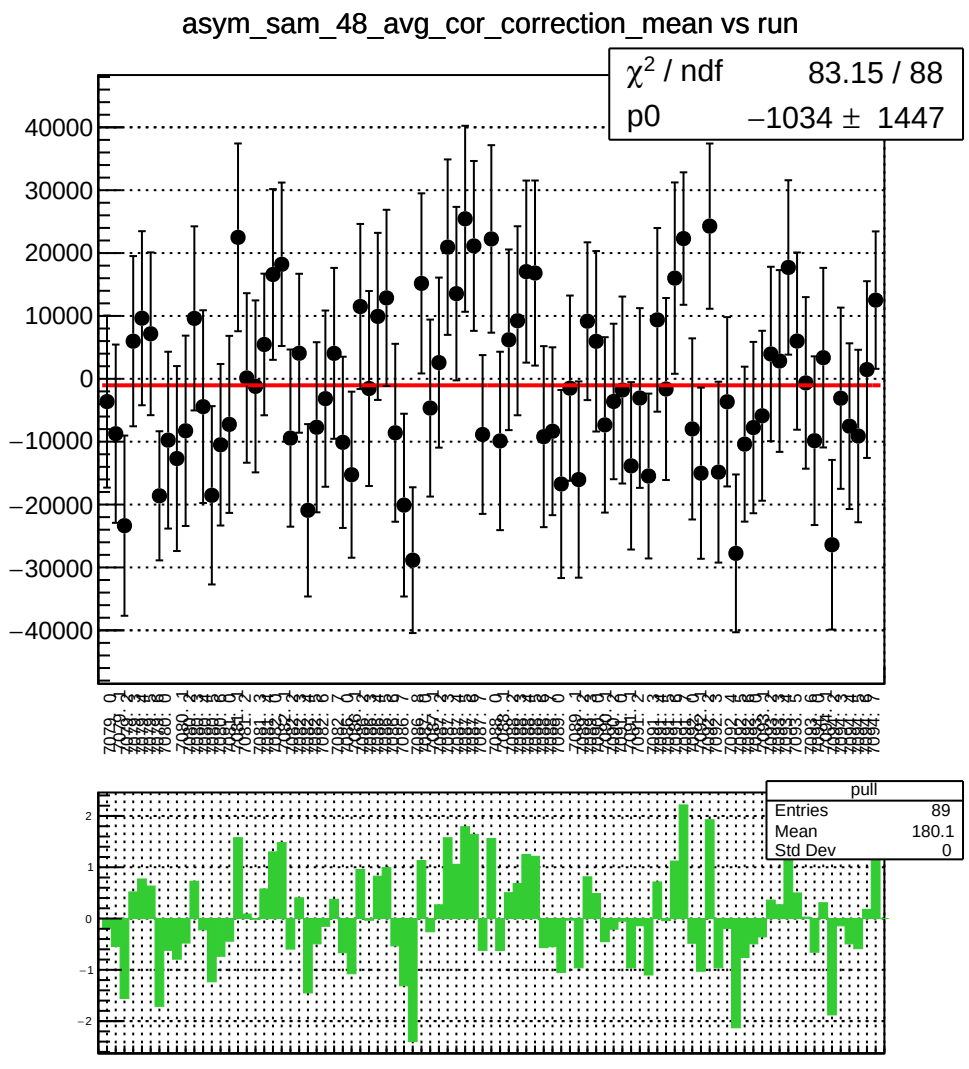

pull1D
Entries 89
Mean 0.004268
Std Dev 0.9665
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

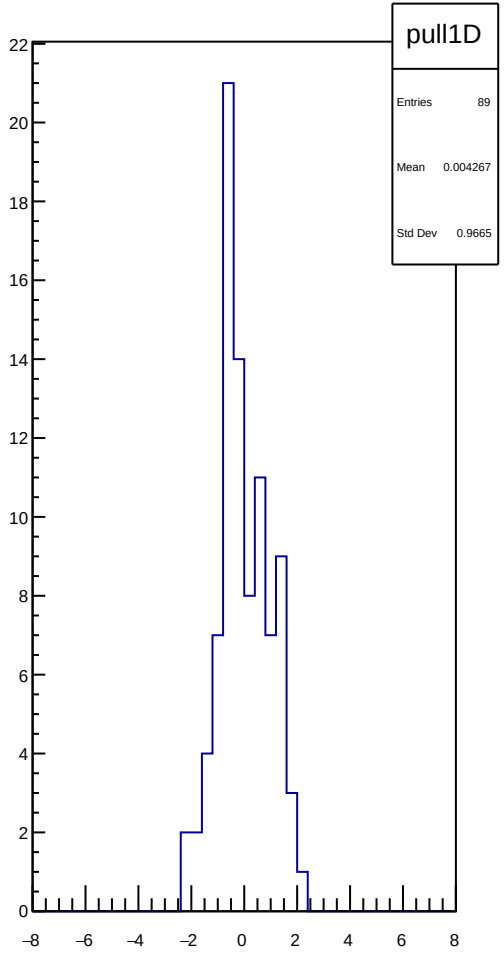

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 3255 / 88
p0 1327 ± 1.023
1500
1450
1400
1350
1300
1250
1200

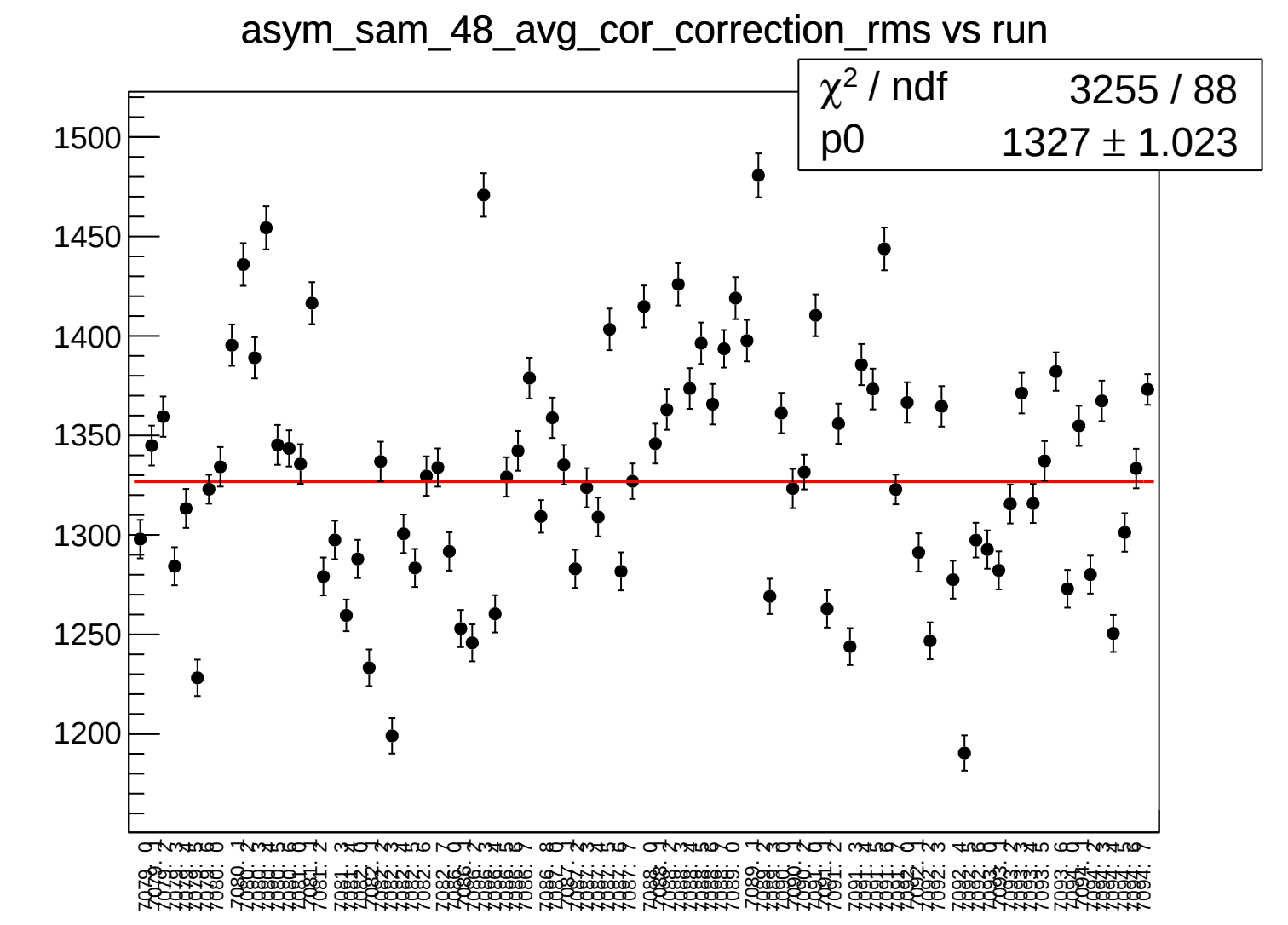

cor_asym_sam_48_avg_mean vs run
χ² / ndf 101.4 / 88
p0 −86.31 ± 166
pull
Entries 89
Mean −1371
Std Dev 0

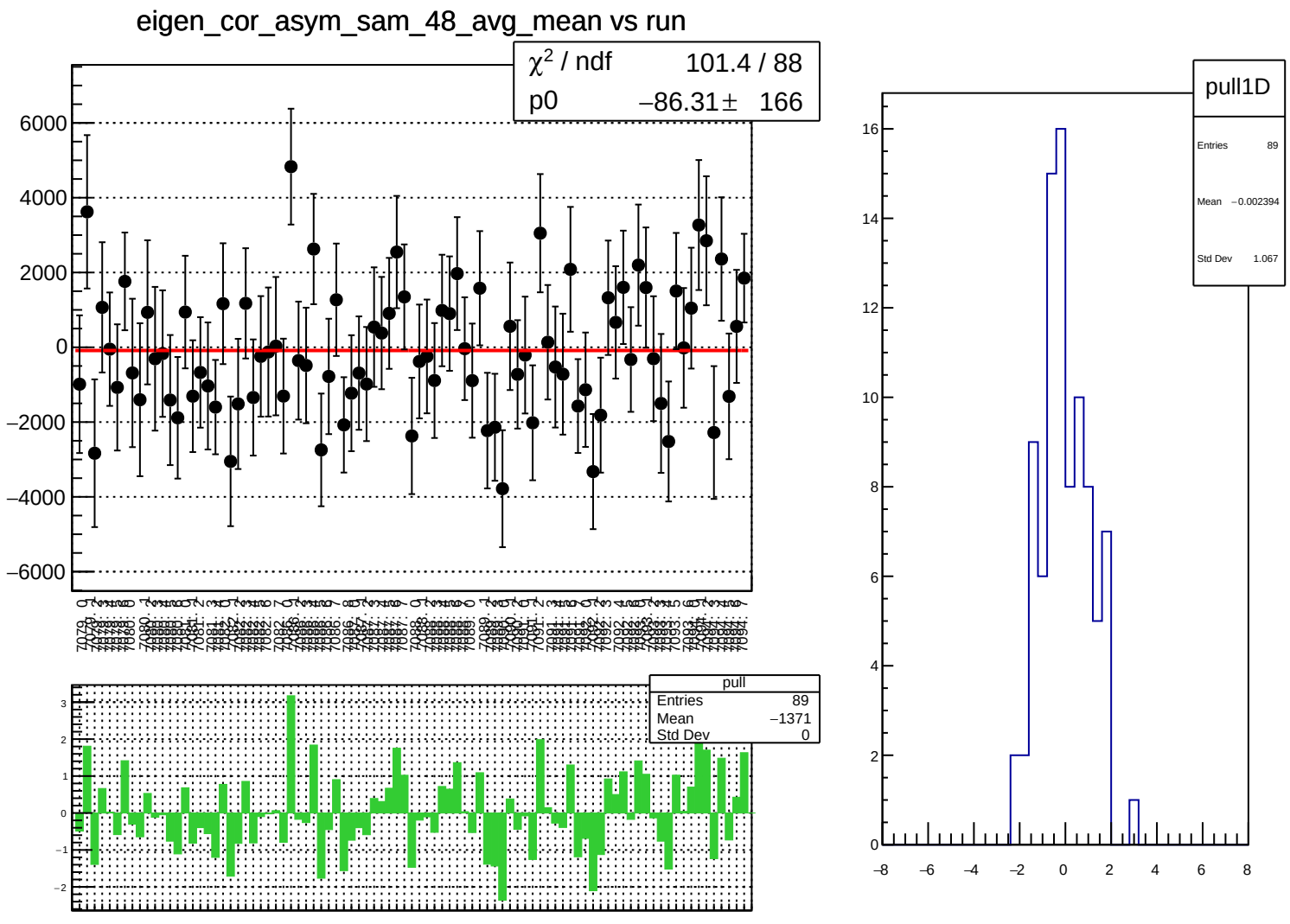

pull1D
Entries 89
Mean −0.002394
Std Dev 1.067

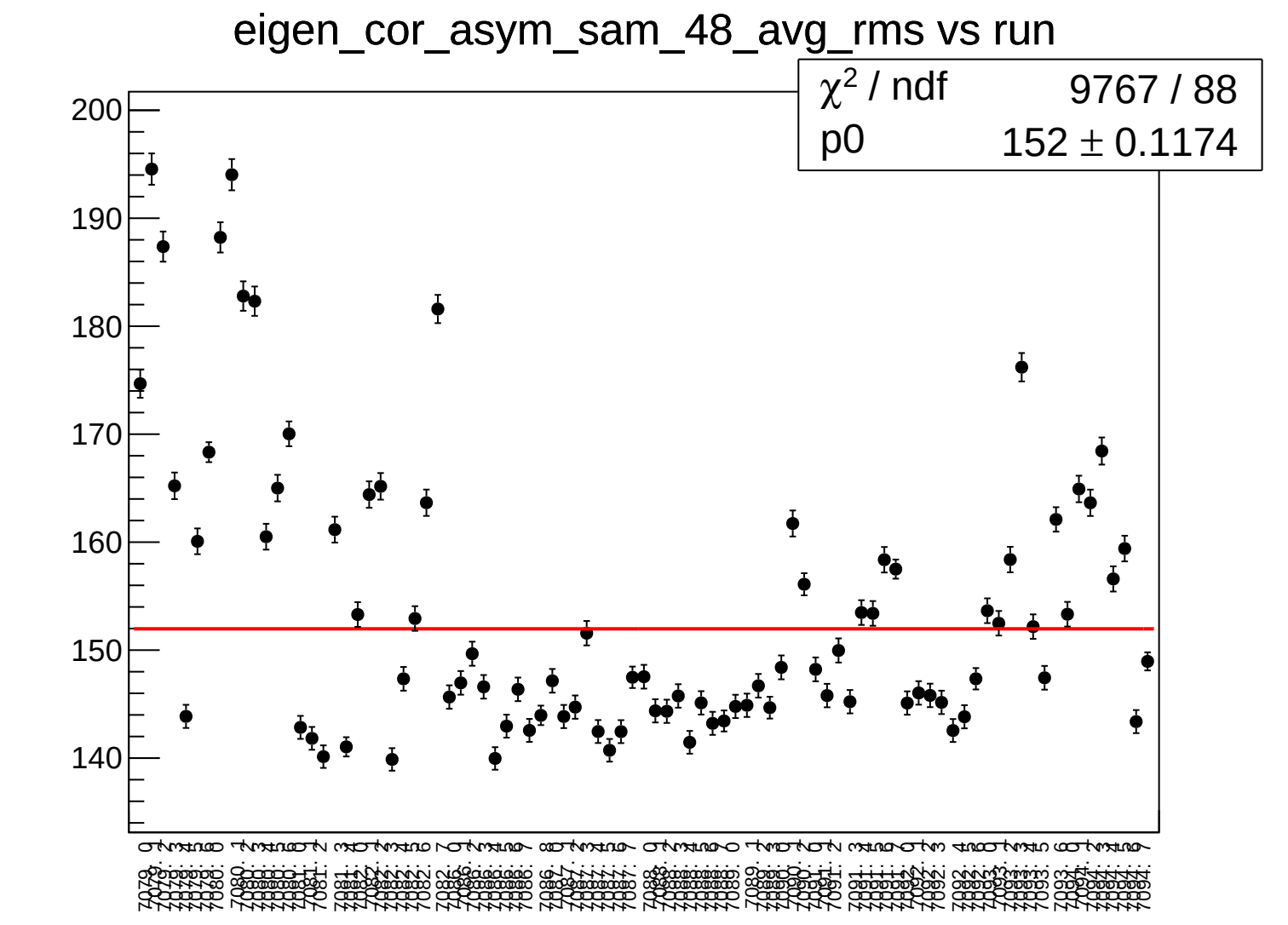

cor_asym_sam_48_avg_rms vs run
χ² / ndf 9767 / 88
p0 152 ± 0.1174
200
190
180
170
160
150
140

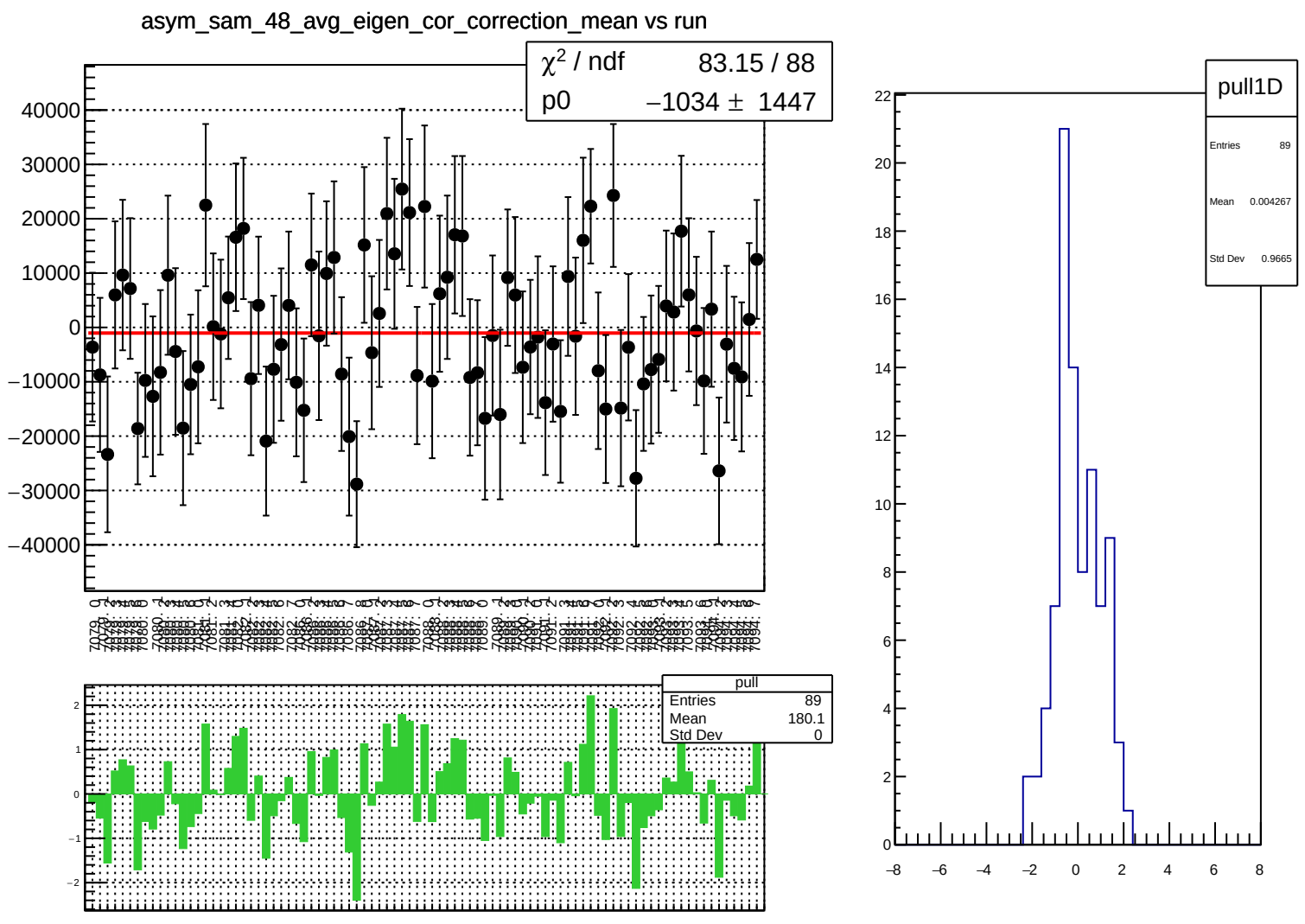

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 83.15 / 88
p0 −1034 ± 1447
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 180.1
Std Dev 0
2
1
0
−1
−2

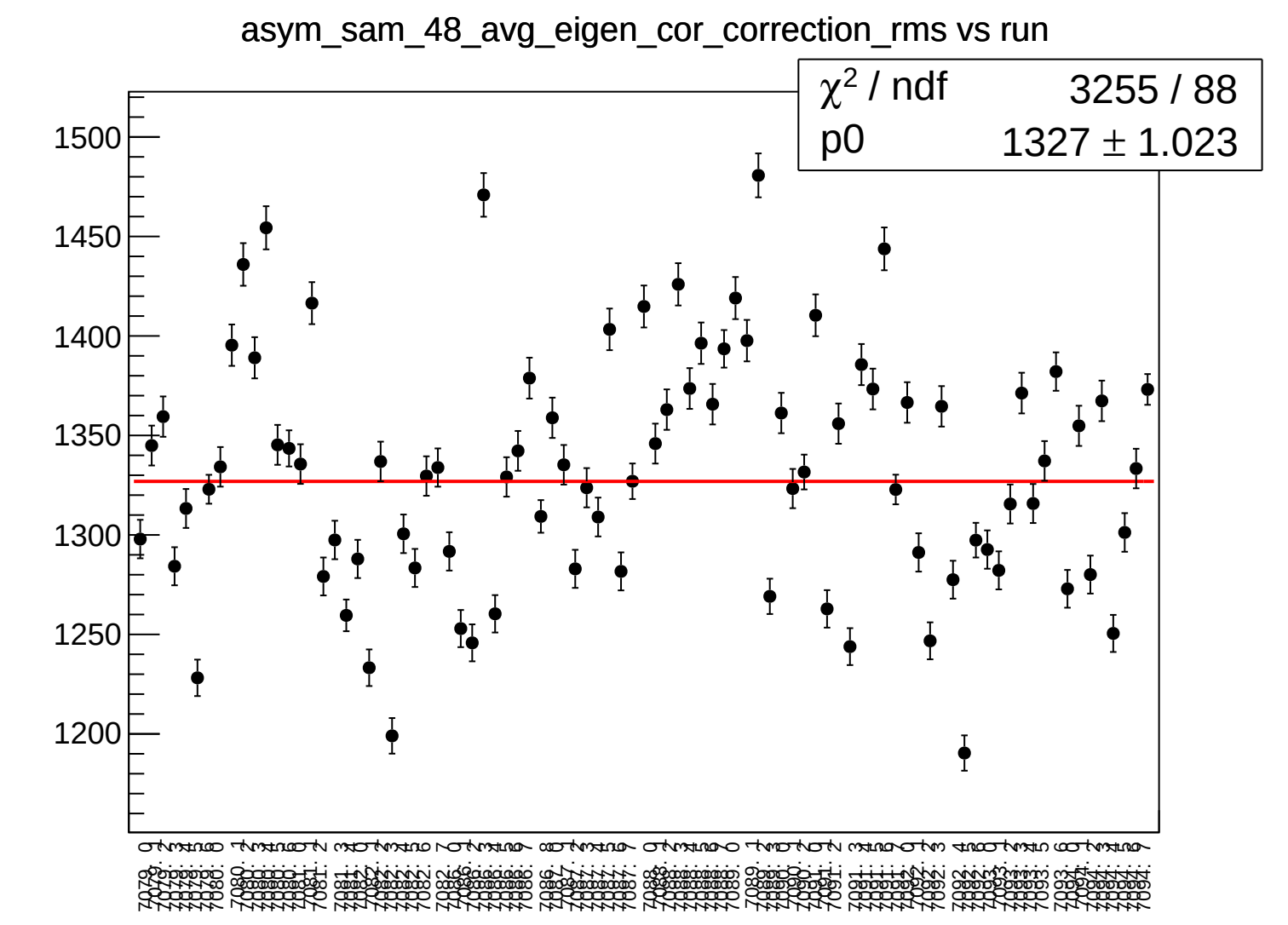

pull1D
Entries 89
Mean 0.004267
Std Dev 0.9665
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

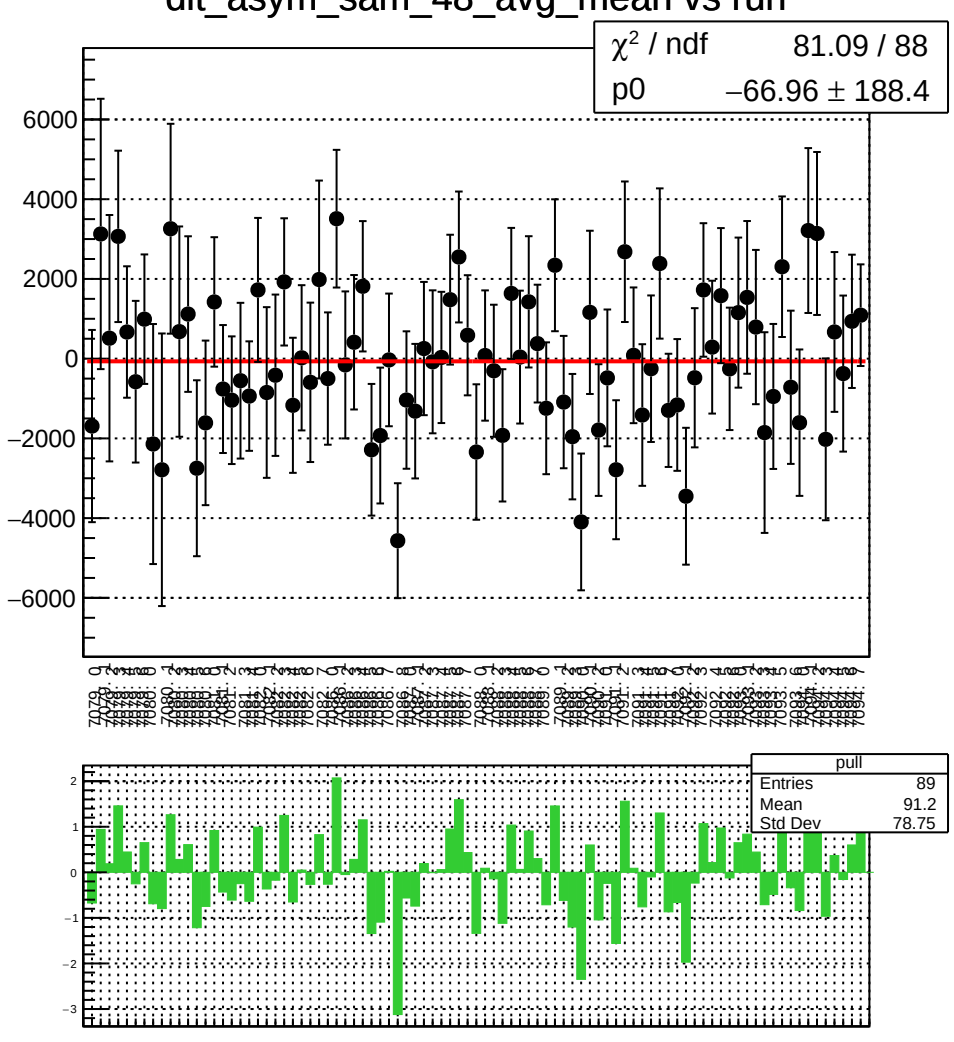

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 3255 / 88
p0 1327 ± 1.023
1500
1450
1400
1350
1300
1250
1200

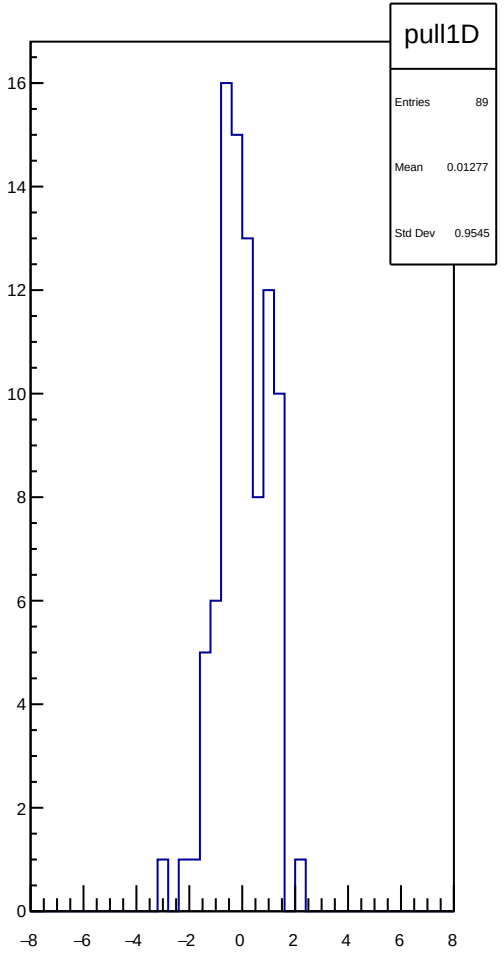

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 101.4 / 88
p0 −86.31 ± 166
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −1371
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.002394
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

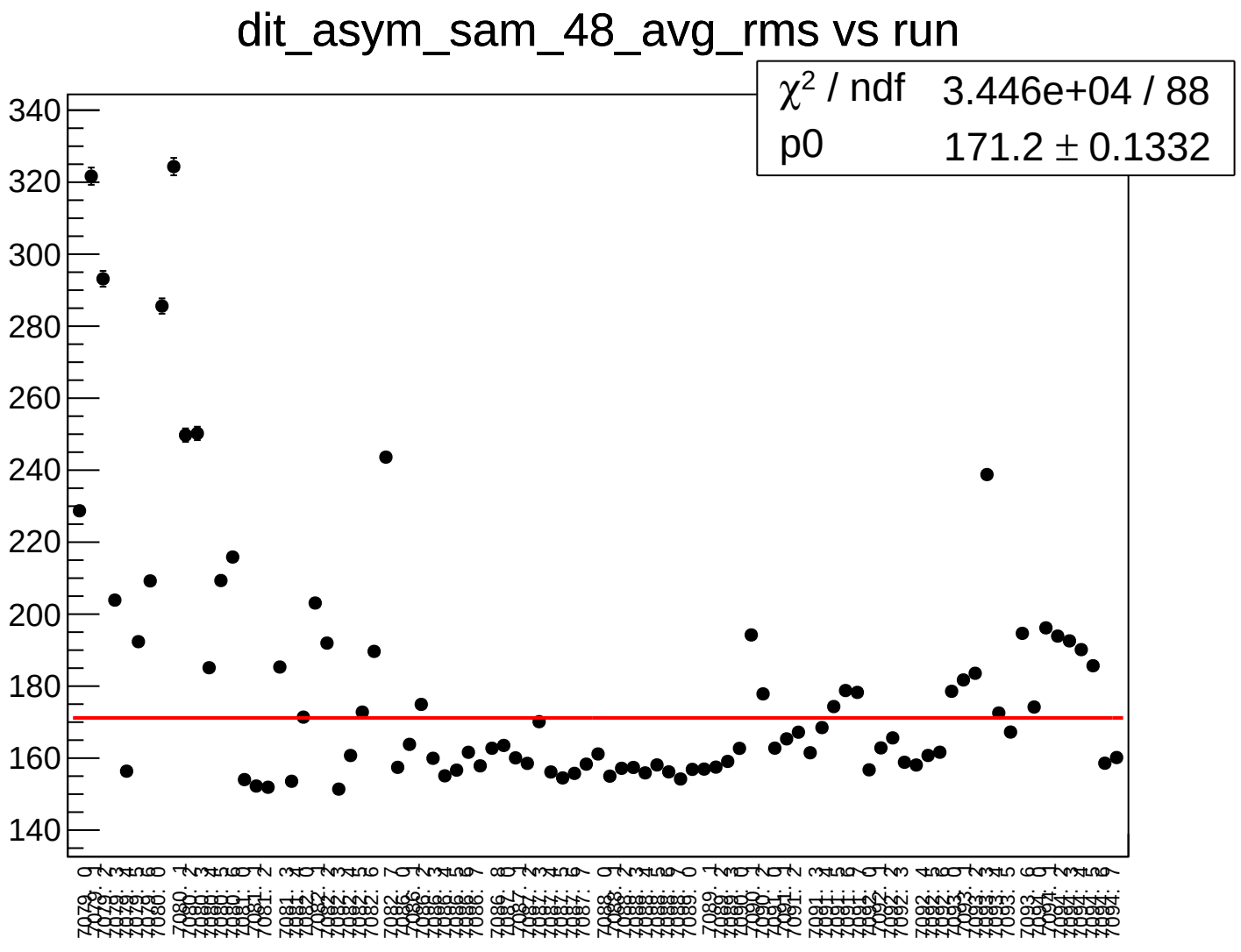

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 9767 / 88
p0 152 ± 0.1174
200
190
180
170
160
150
140

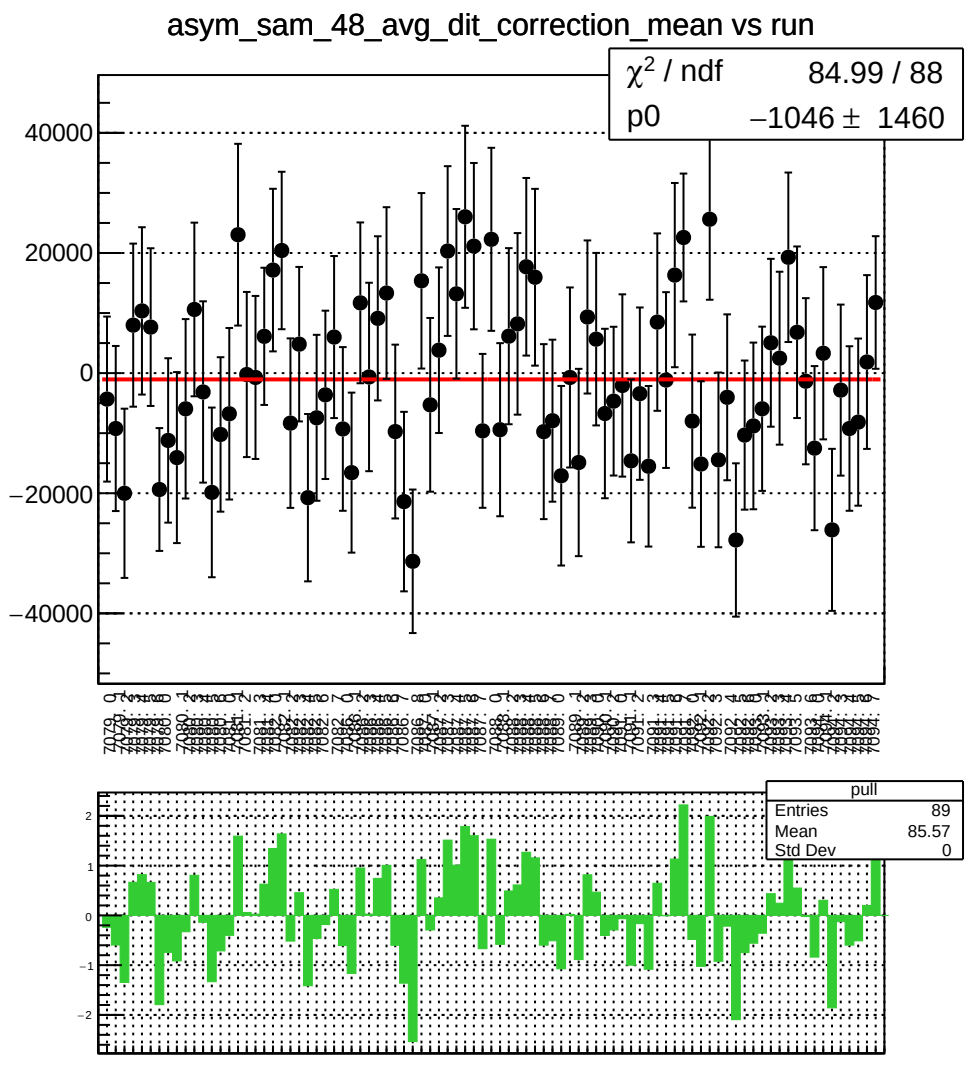

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.15 / 88
p0 −1034 ± 1447
pull
Entries 89
Mean 180.1
Std Dev 0
pull1D
Entries 89
Mean 0.004267
Std Dev 0.9665

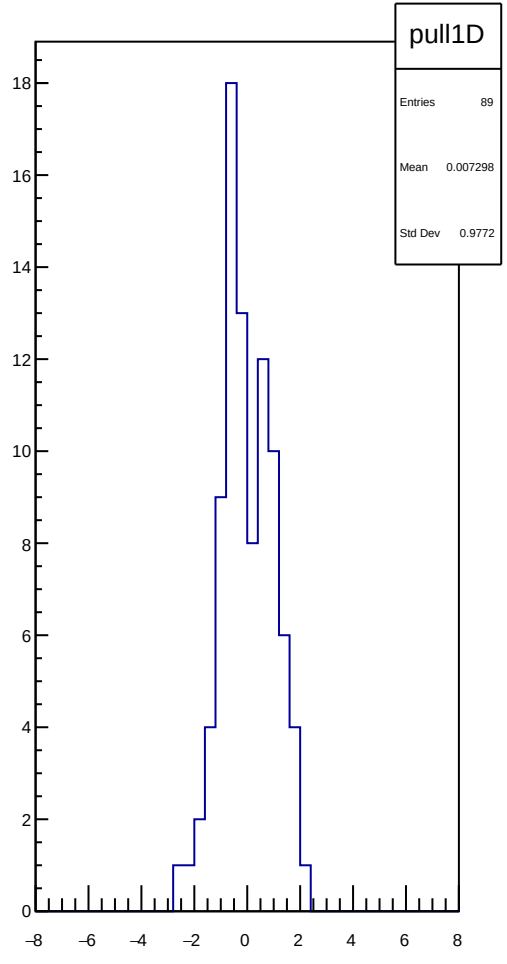

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 3255 / 88
p0 1327 ± 1.023
1500
1450
1400
1350
1300
1250
1200

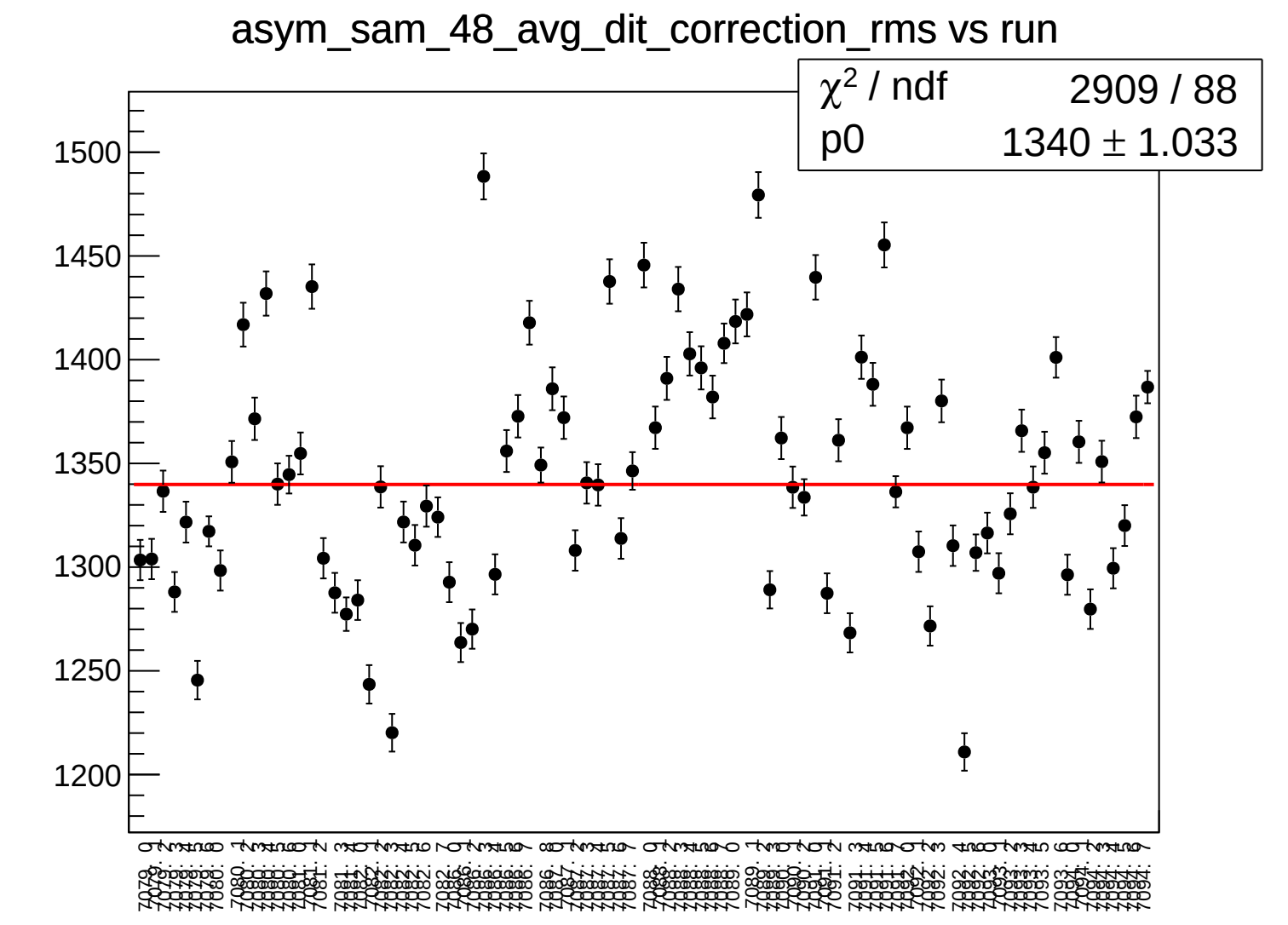

dit_asym_sam_48_avg_mean vs run
χ² / ndf 81.09 / 88
p0 −66.96 ± 188.4
pull
Entries 89
Mean 91.2
Std Dev 78.75

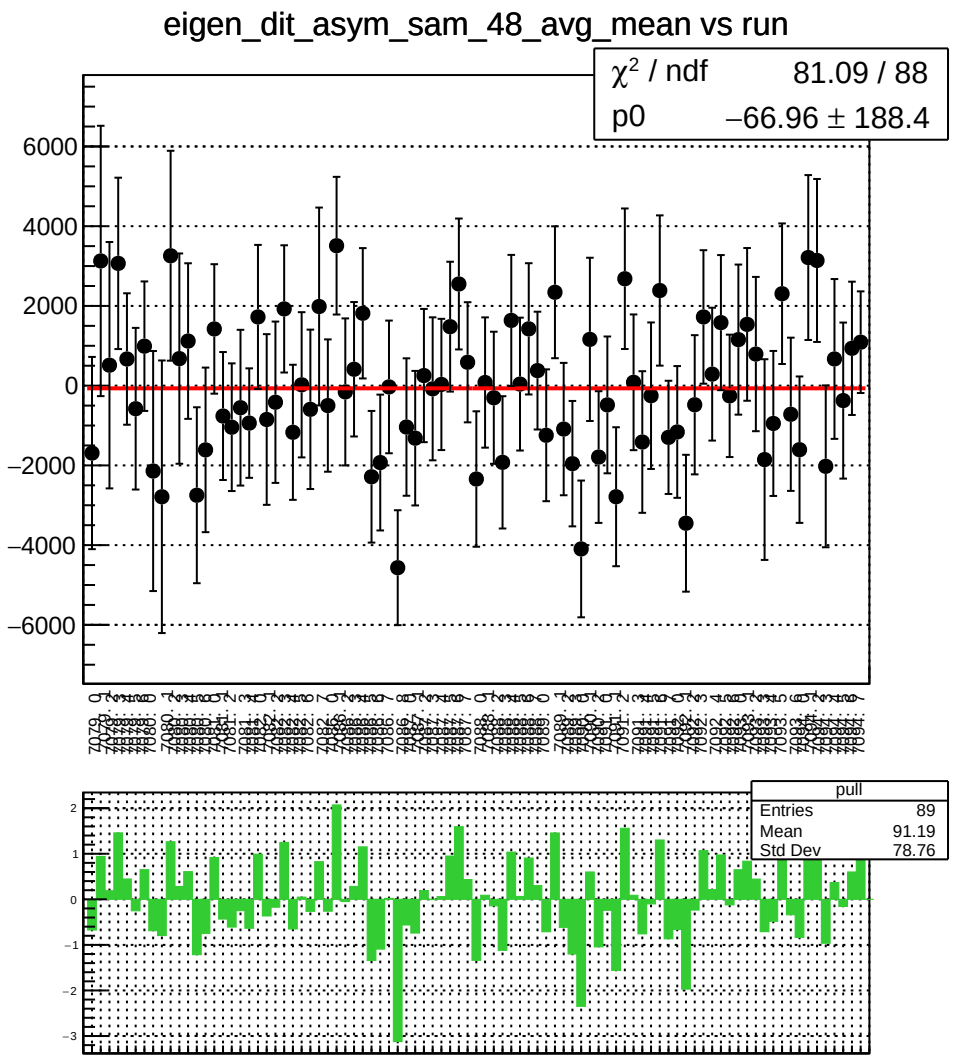

pull1D
Entries 89
Mean 0.01277
Std Dev 0.9545

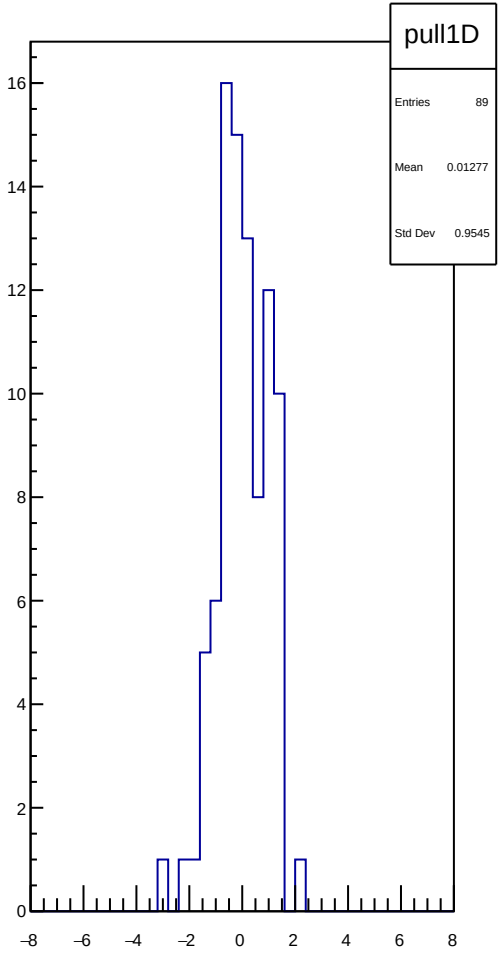

dit_asym_sam_48_avg_rms vs run
χ² / ndf 3.446e+04 / 88
p0 171.2 ± 0.1332
340
320
300
280
260
240
220
200
180
160
140

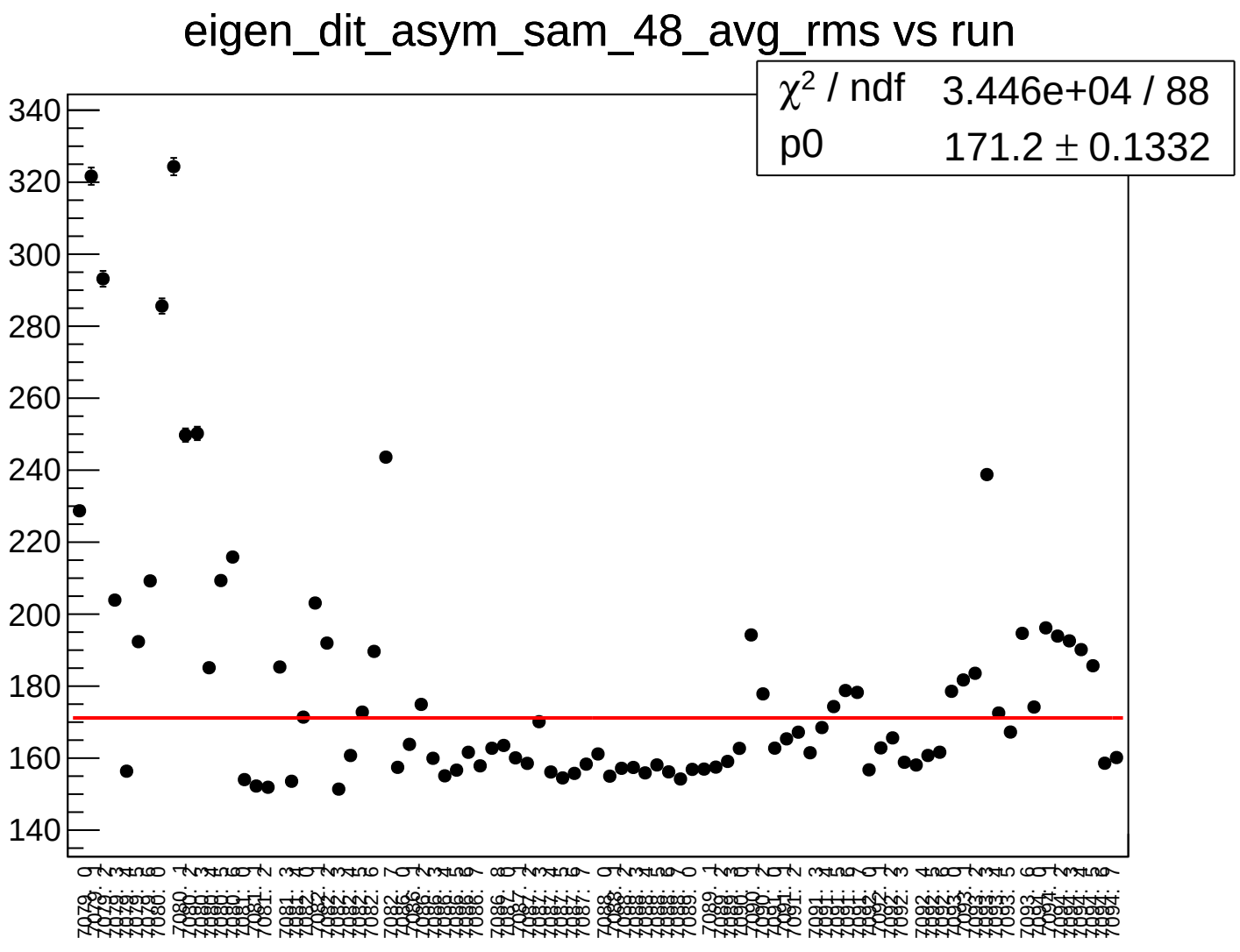

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 84.99 / 88
p0 −1046 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 85.57
Std Dev 0
2
1
0
−1
−2

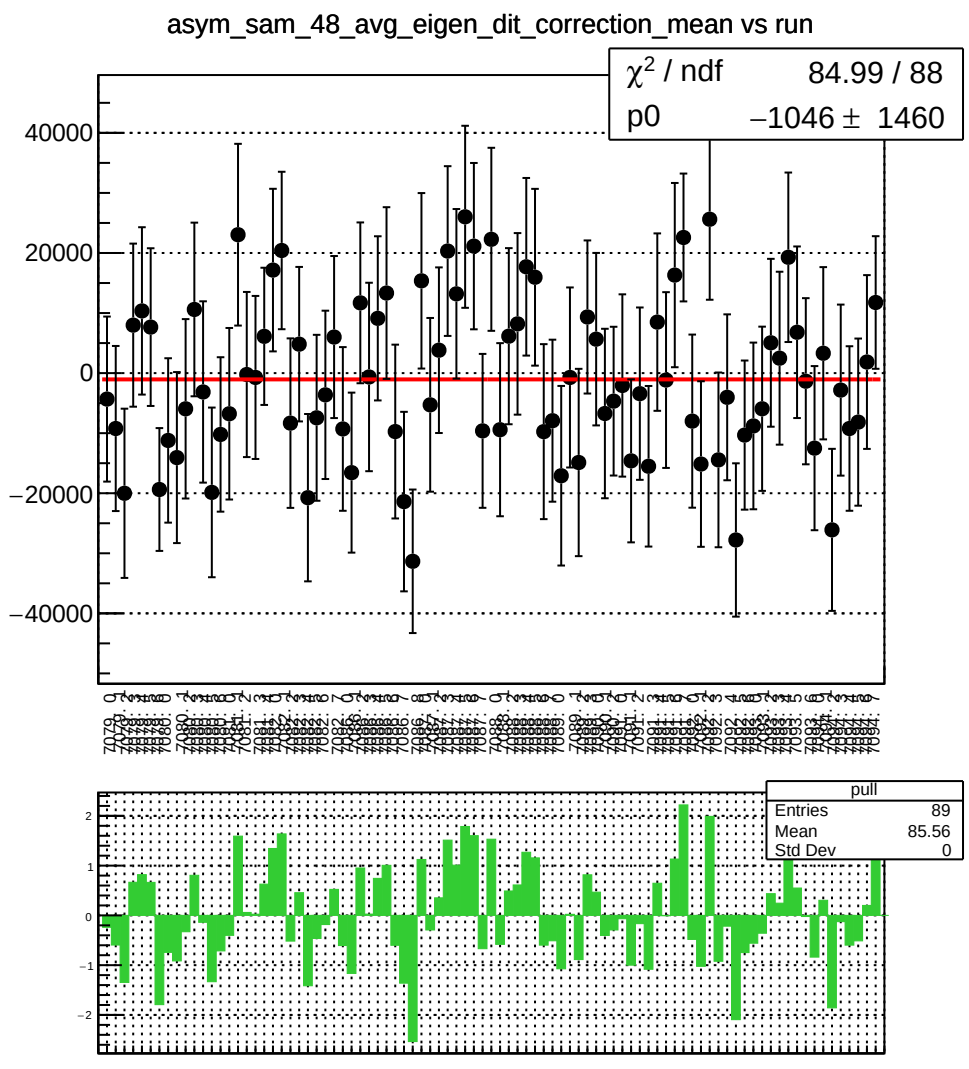

pull1D
Entries 89
Mean 0.007298
Std Dev 0.9772
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

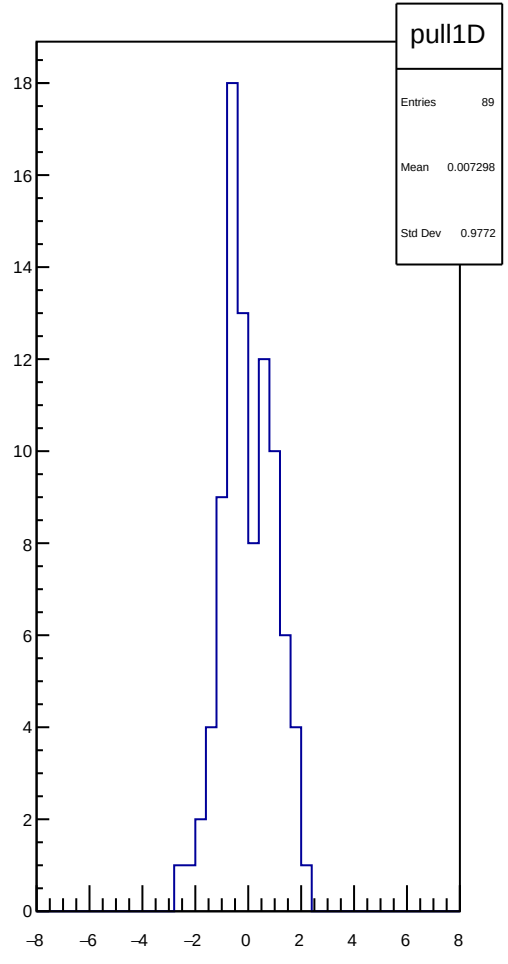

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2909 / 88
p0 1340 ± 1.033
1500
1450
1400
1350
1300
1250
1200

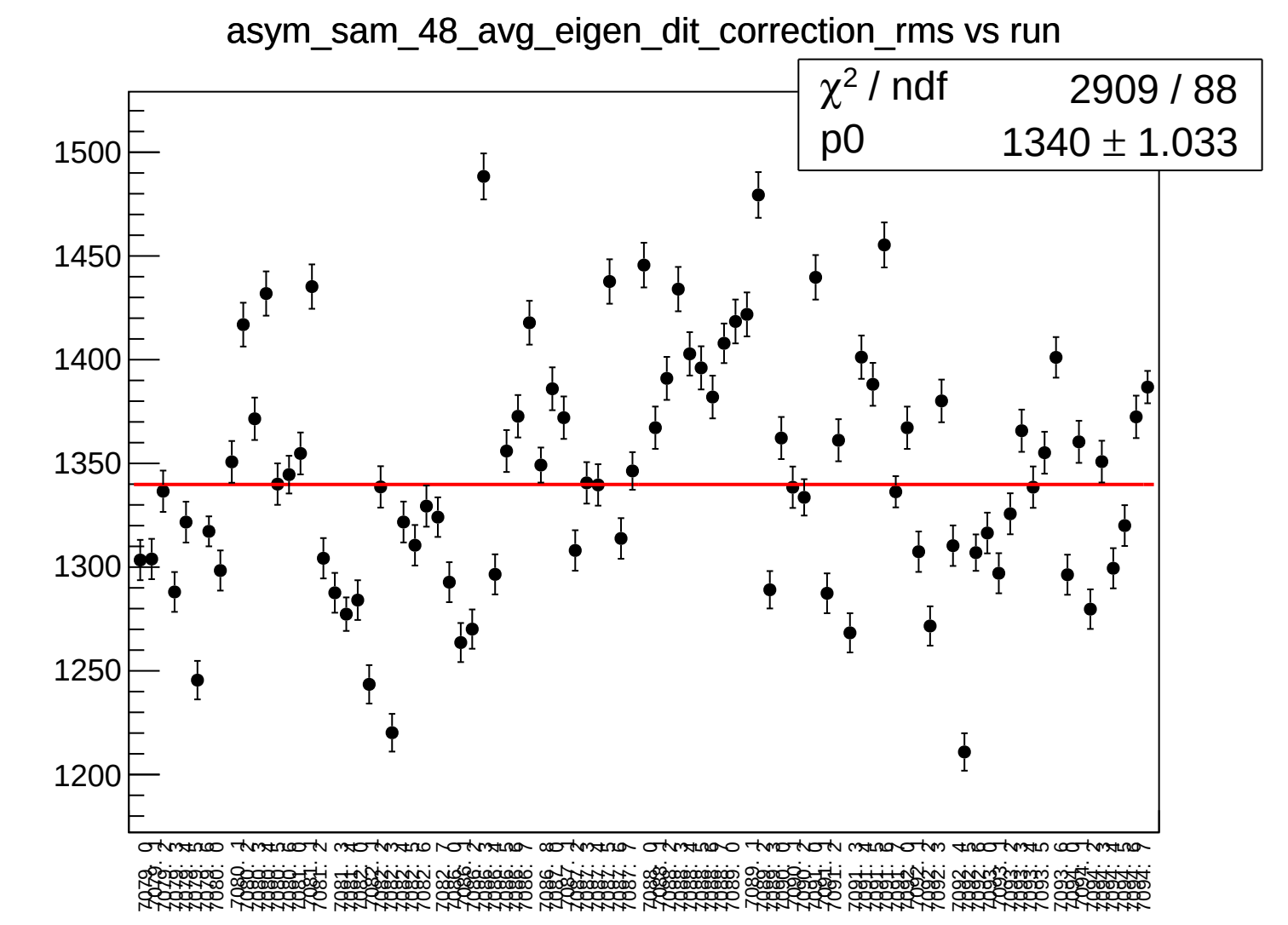

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 81.09 / 88
p0 −66.96 ± 188.4
pull
Entries 89
Mean 91.19
Std Dev 78.76

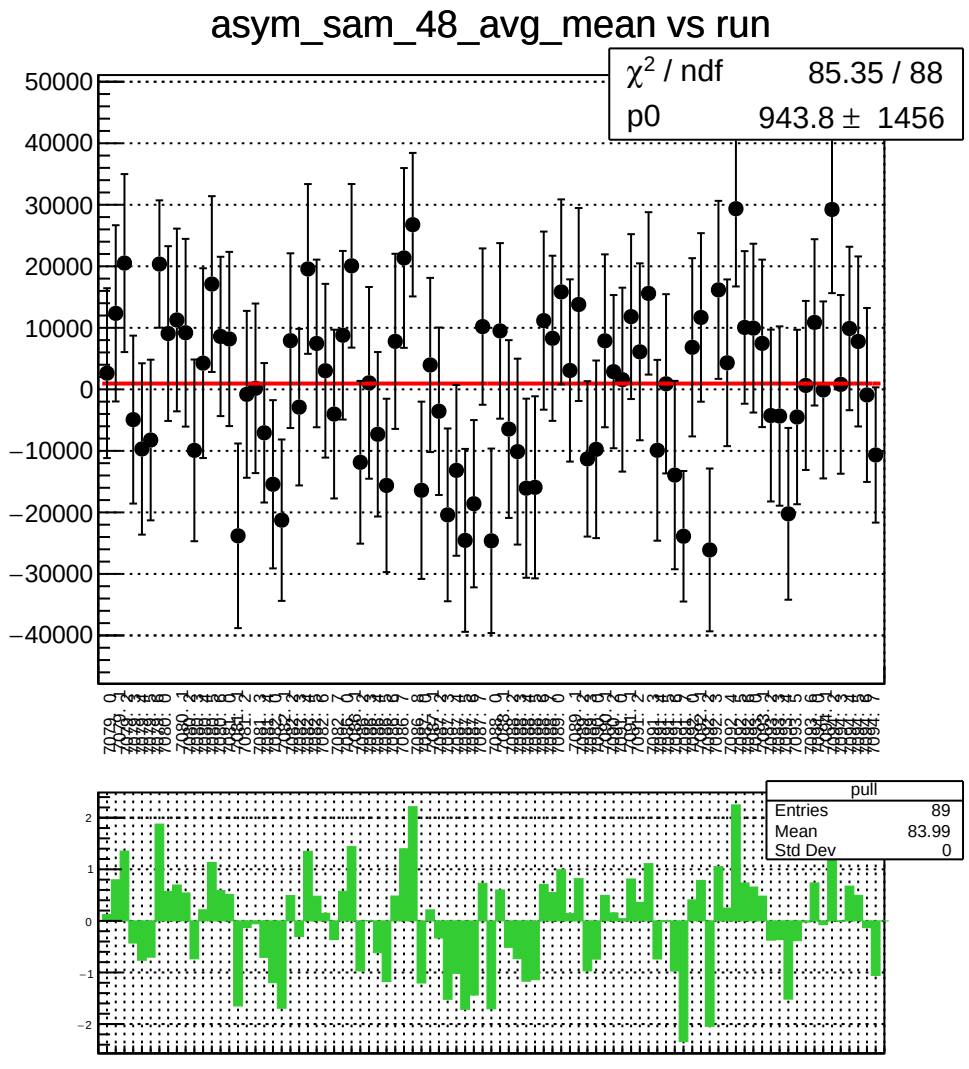

pull1D
Entries 89
Mean 0.01277
Std Dev 0.9545

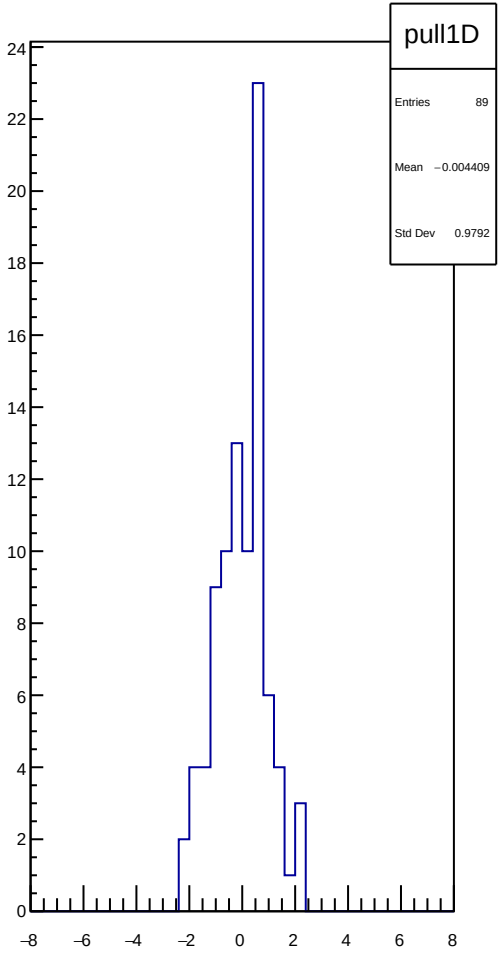

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 3.446e+04 / 88
p0 171.2 ± 0.1332
340
320
300
280
260
240
220
200
180
160
140

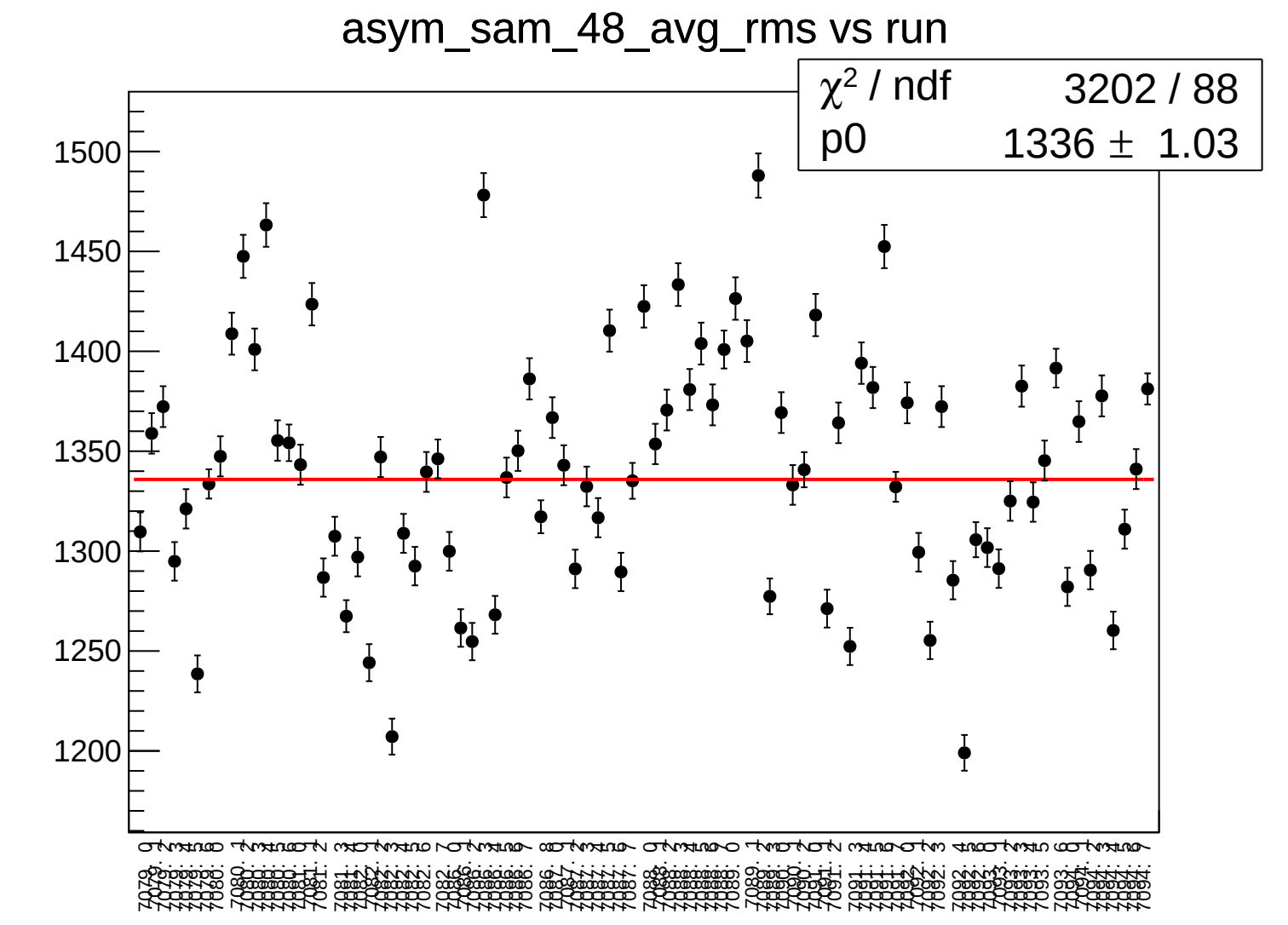

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.99 / 88
p0 −1046 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 85.56
Std Dev 0
2
1
0
−1
−2

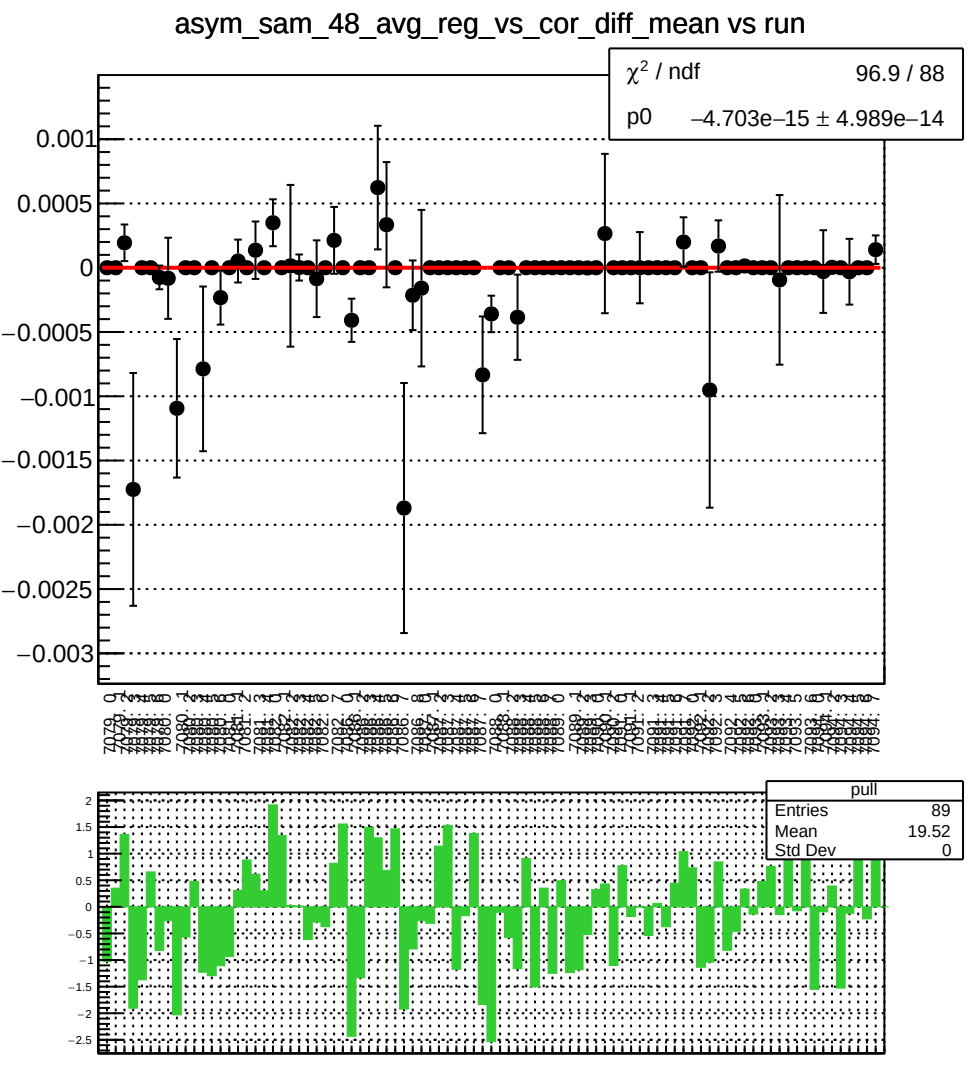

pull1D
Entries 89
Mean 0.007298
Std Dev 0.9772
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

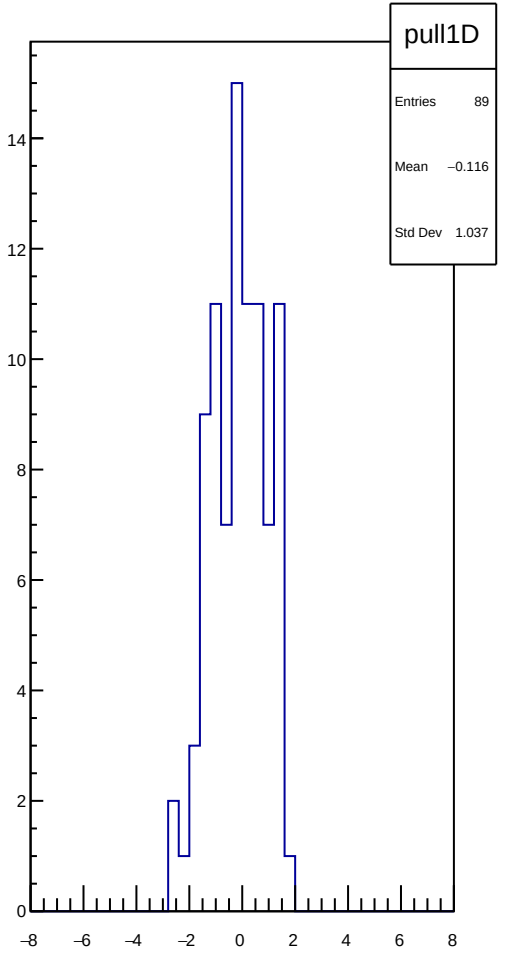

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2909 / 88
p0 1340 ± 1.033
1500
1450
1400
1350
1300
1250
1200

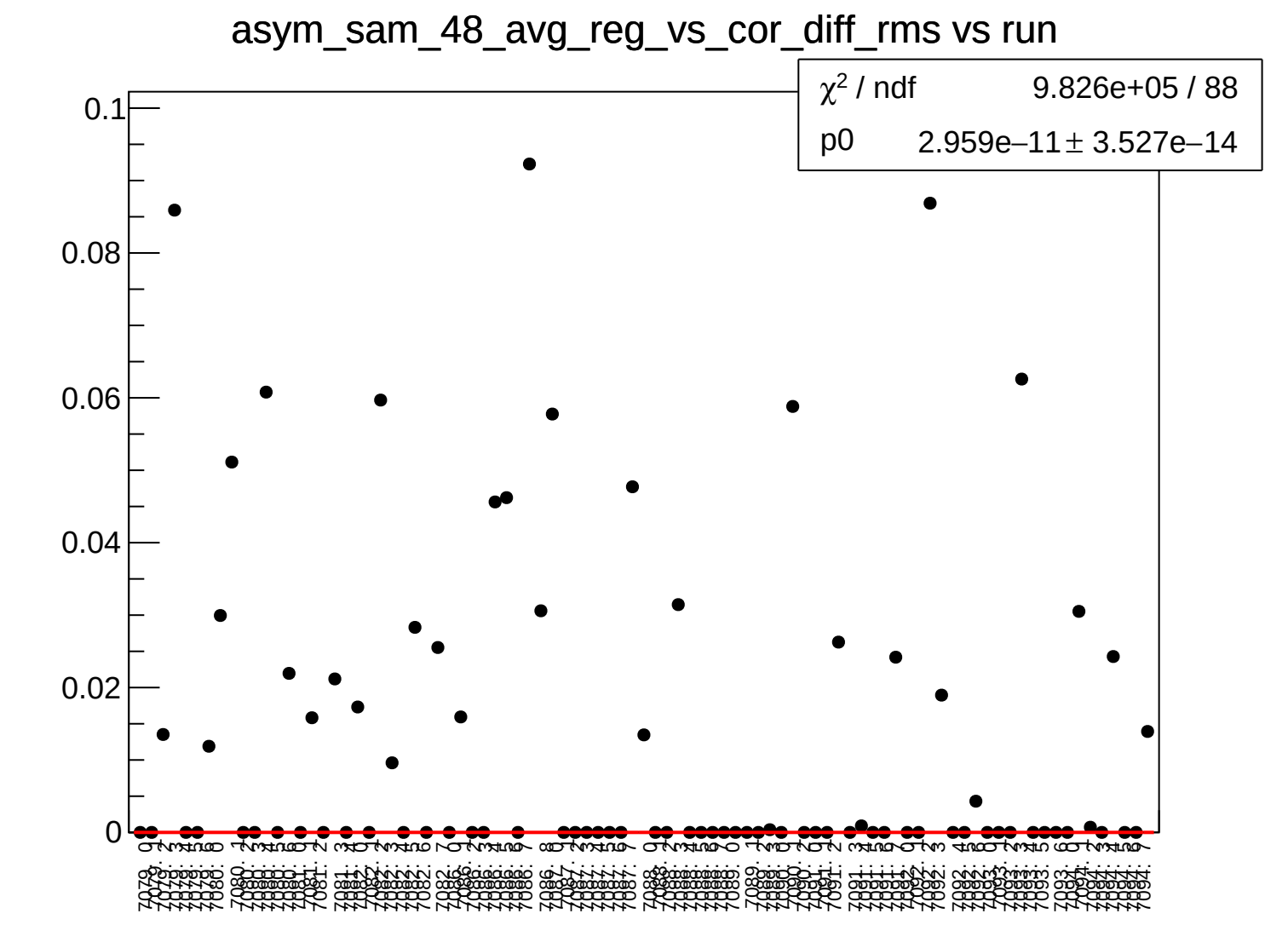

asym_sam_48_avg_mean vs run
χ^2 / ndf 85.35 / 88
p0 943.8 ± 1456
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 83.99
Std Dev 0
2
1
0
−1
−2

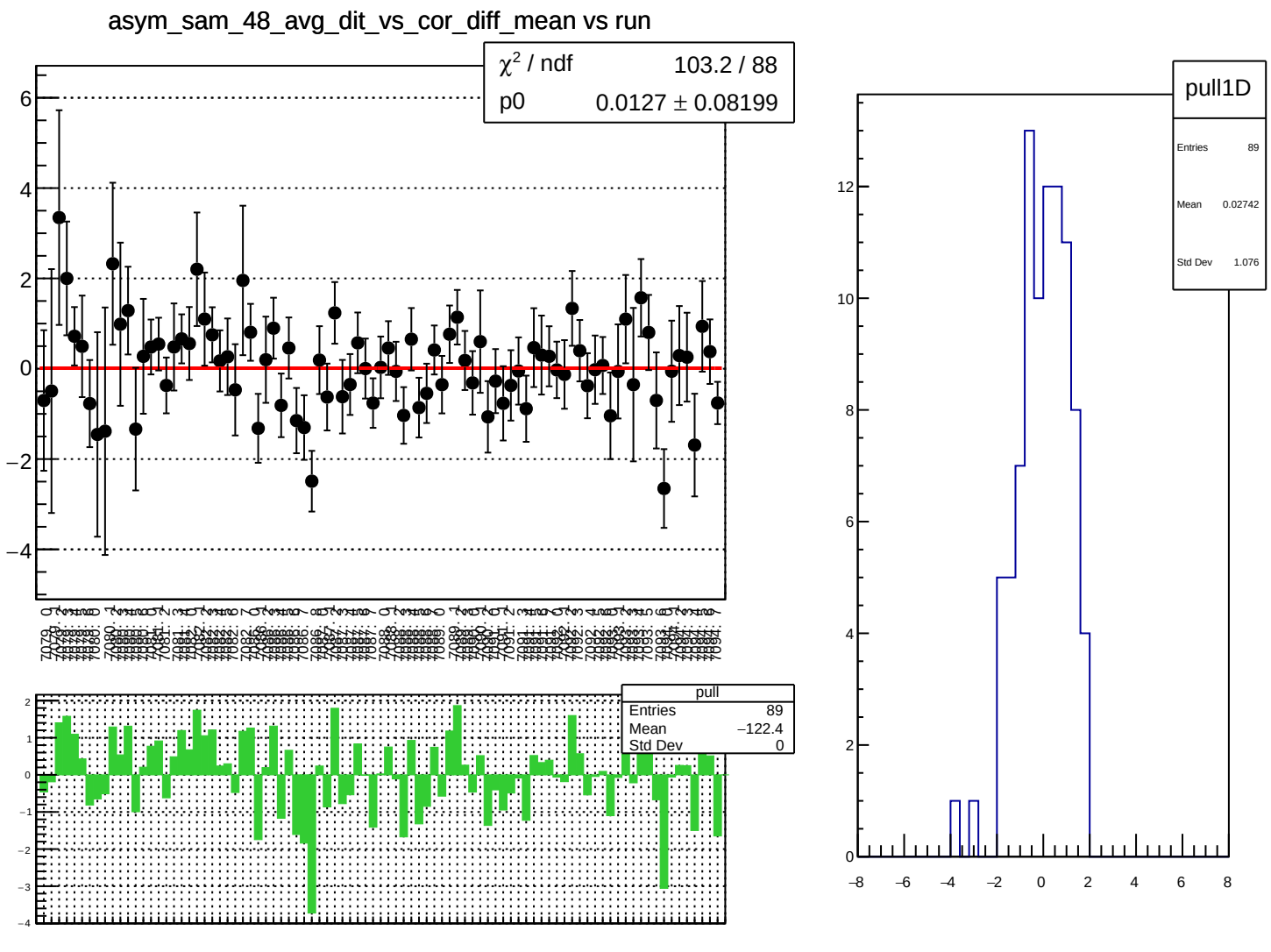

pull1D
Entries 89
Mean −0.004409
Std Dev 0.9792
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

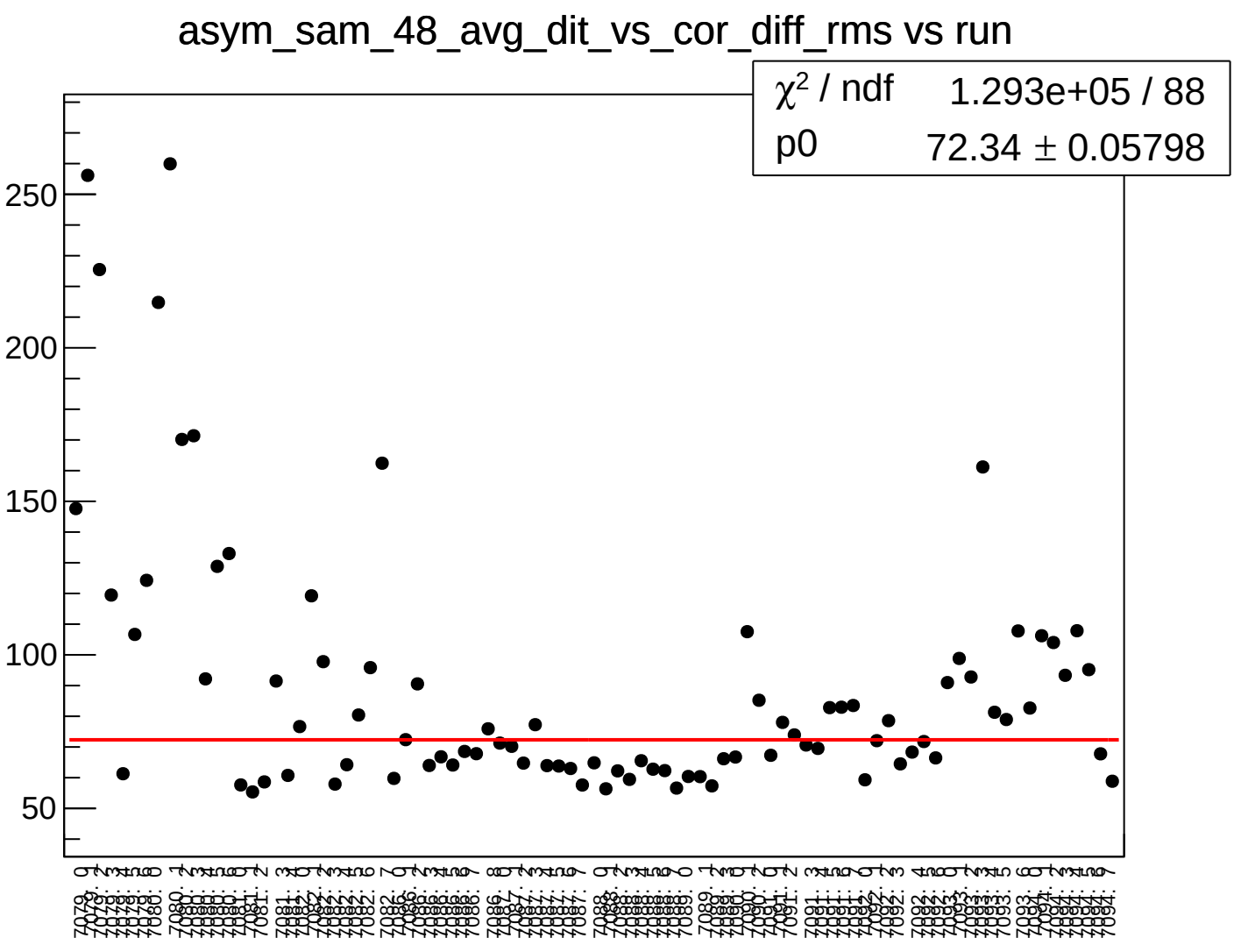

asym_sam_48_avg_rms vs run
χ² / ndf 3202 / 88
p0 1336 ± 1.03
1500
1450
1400
1350
1300
1250
1200

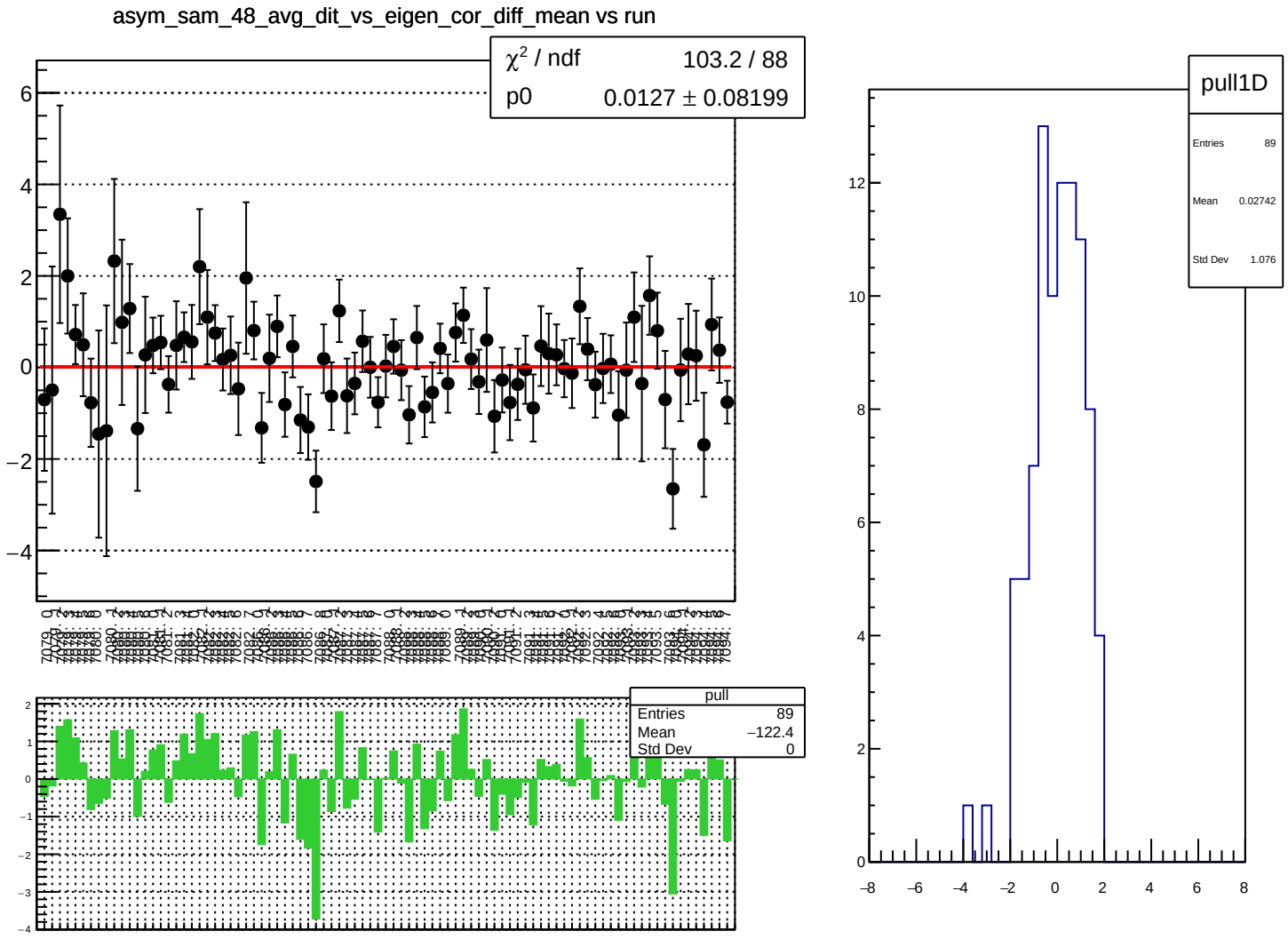

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.9 / 88
p0 −4.703e−15 ± 4.989e−14
pull
Entries 89
Mean 19.52
Std Dev 0

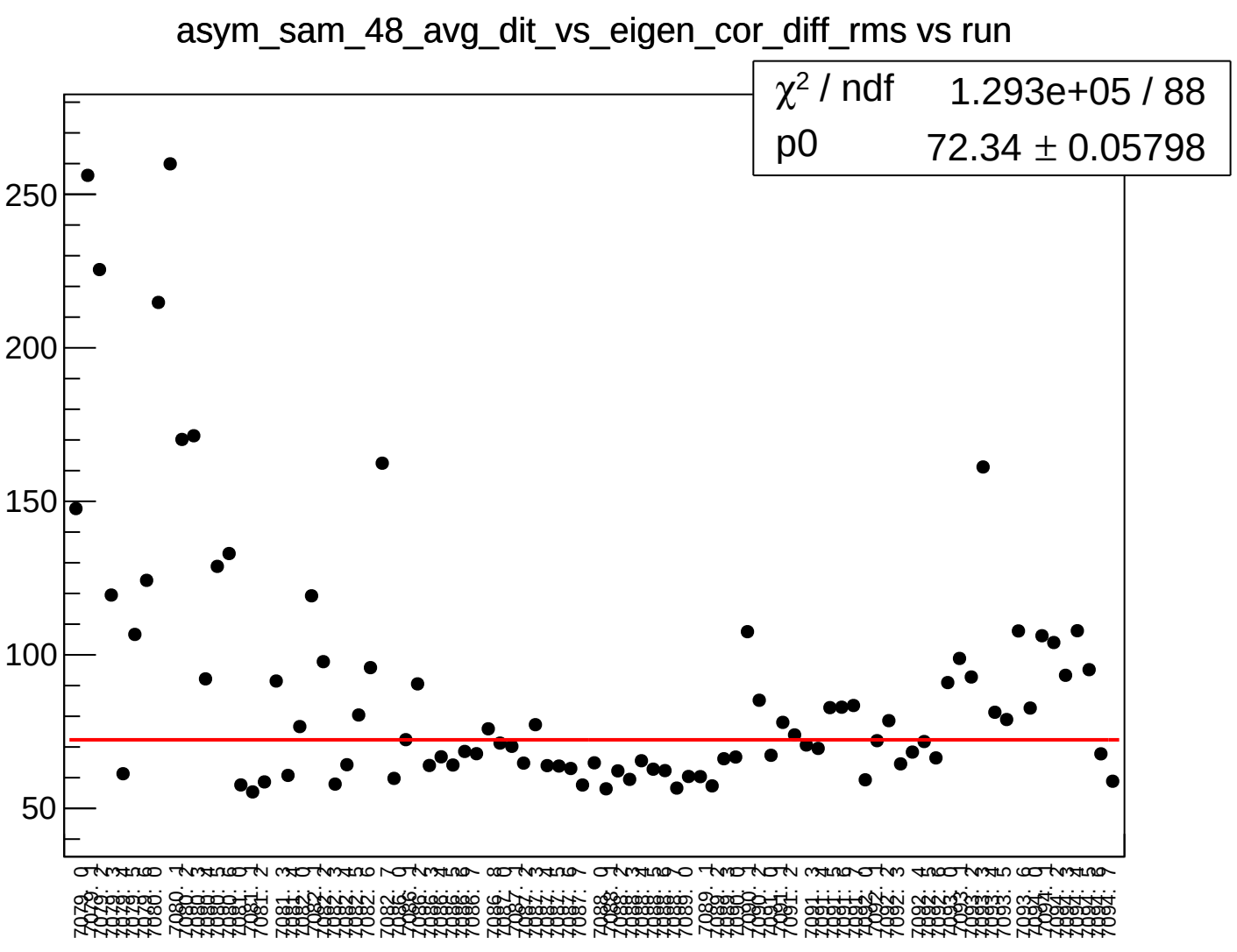

pull1D
Entries 89
Mean −0.116
Std Dev 1.037

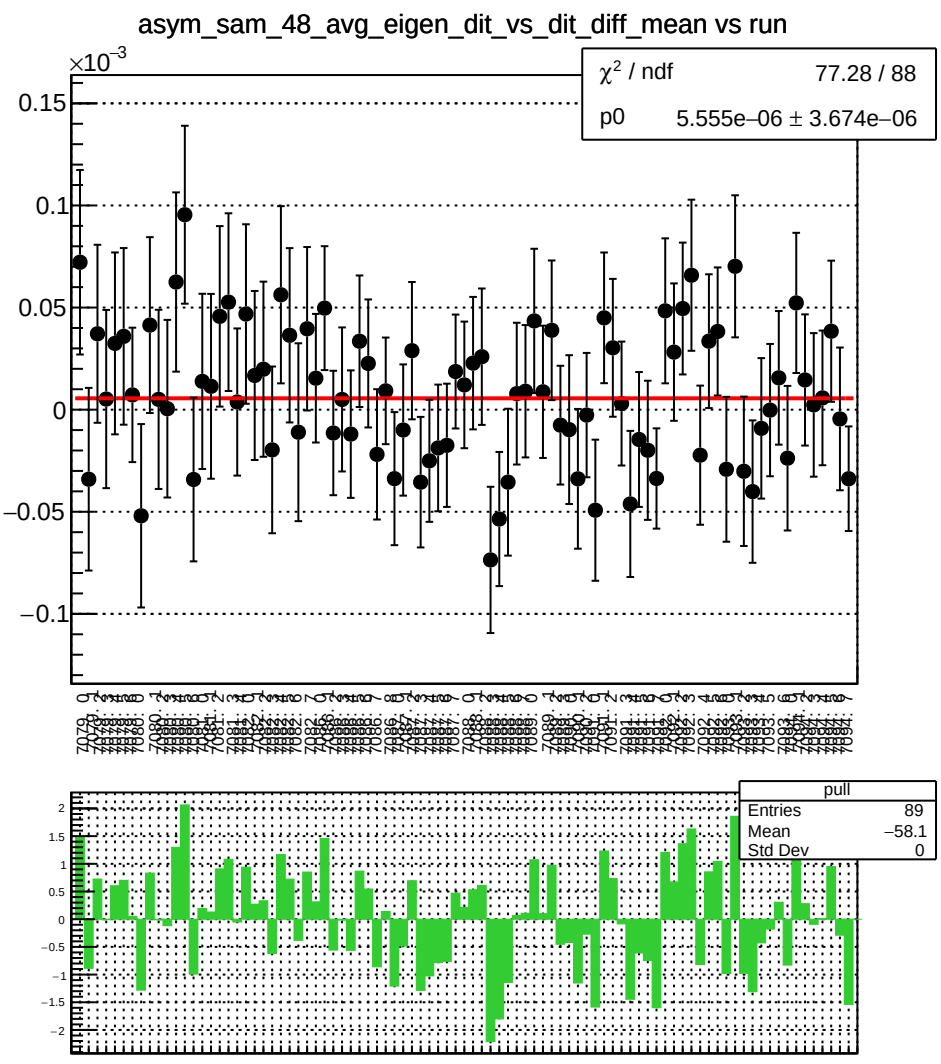

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.826e+05 / 88
p0 2.959e−11 ± 3.527e−14
0.1
0.08
0.06
0.04
0.02
0

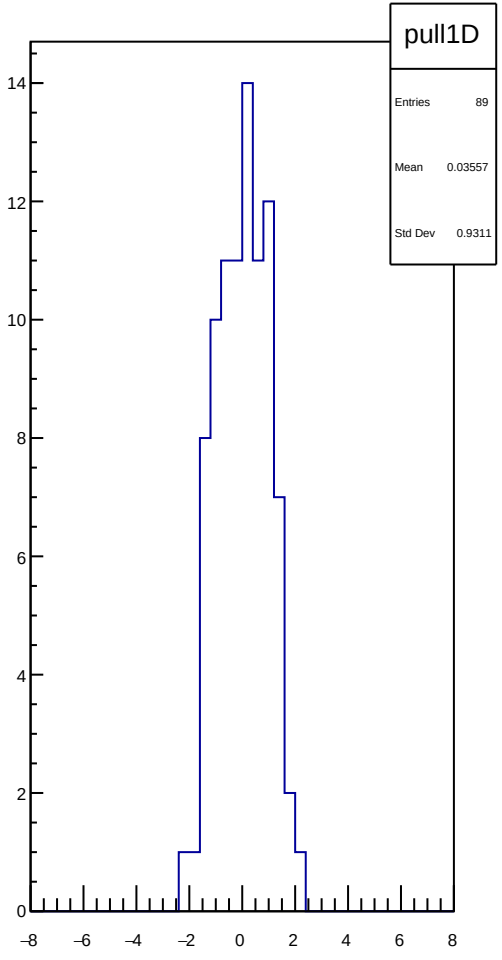

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.0127 ± 0.08199
pull
Entries 89
Mean −122.4
Std Dev 0
pull1D
Entries 89
Mean 0.02742
Std Dev 1.076

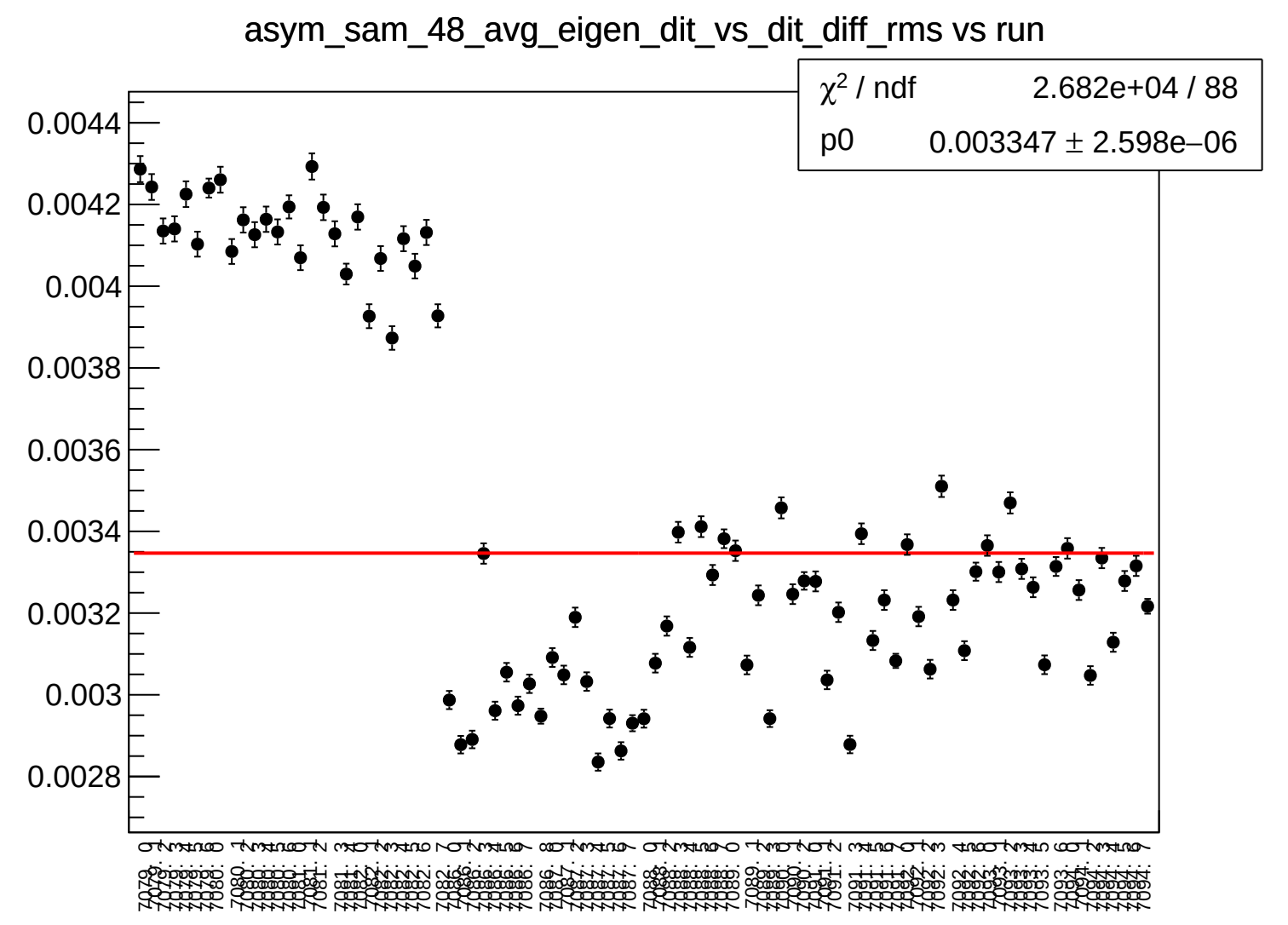

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.293e+05 / 88
p0 72.34 ± 0.05798
250
200
150
100
50

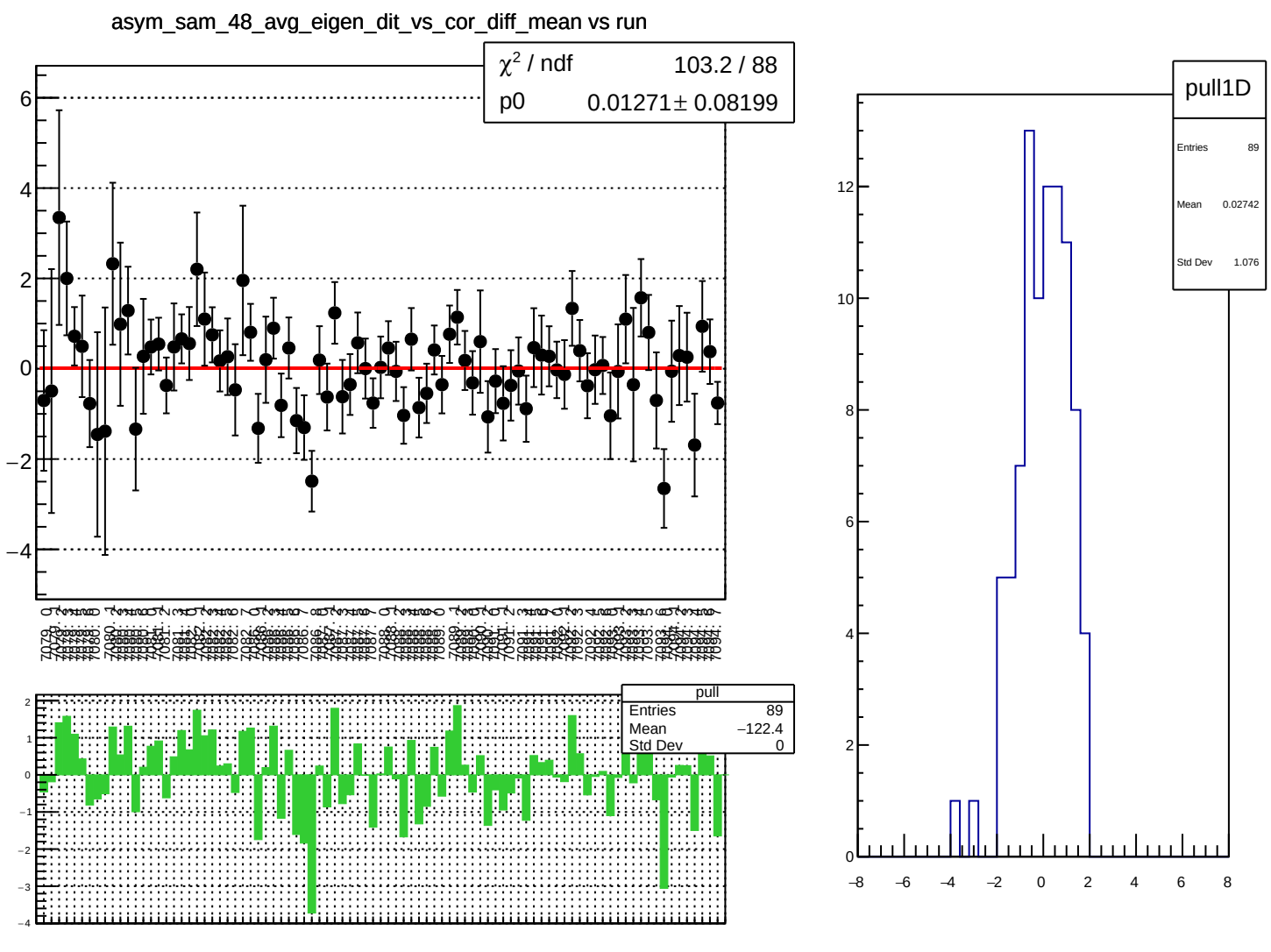

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.0127 ± 0.08199
pull
Entries 89
Mean −122.4
Std Dev 0
pull1D
Entries 89
Mean 0.02742
Std Dev 1.076

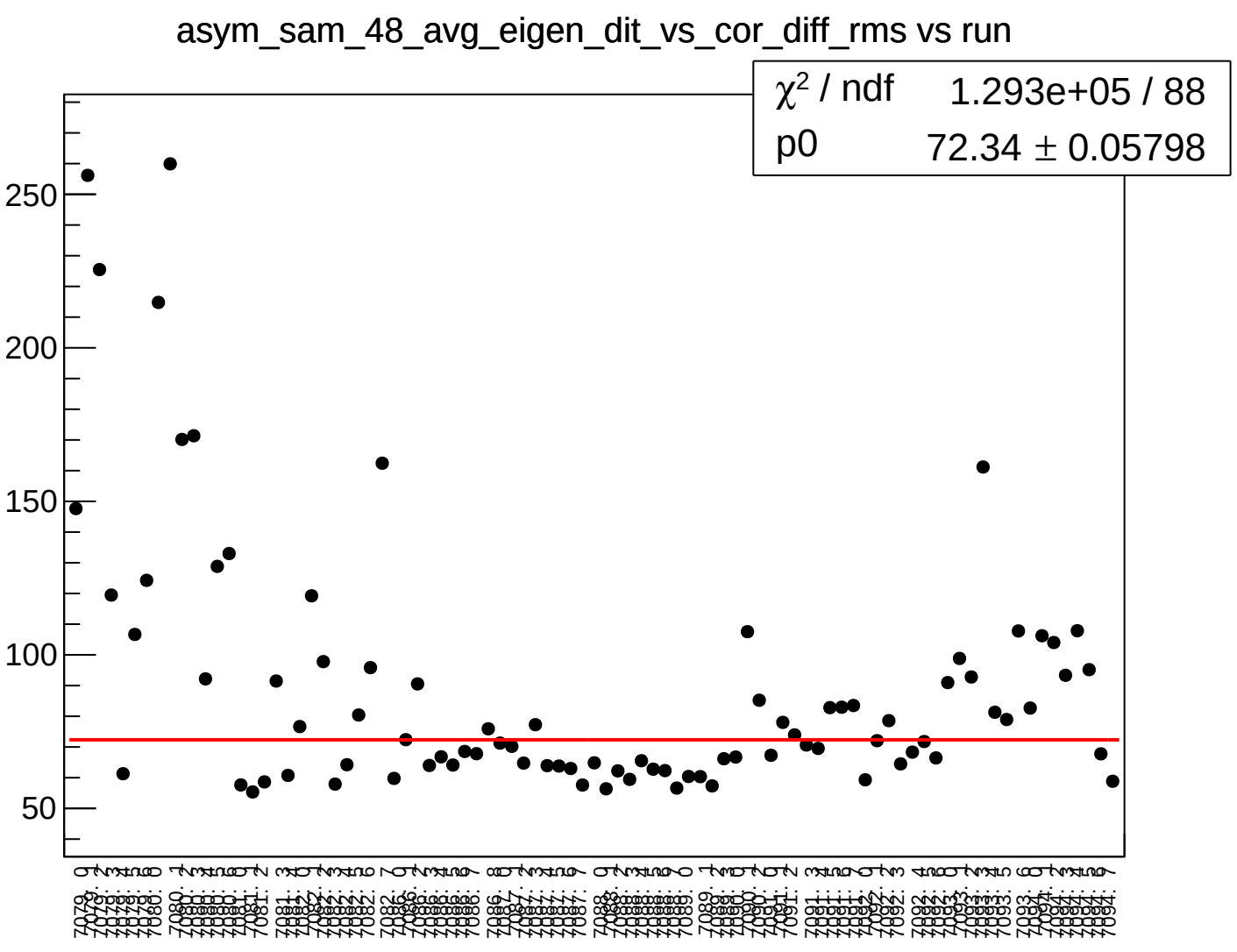

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.293e+05 / 88
p0 72.34 ± 0.05798
250
200
150
100
50

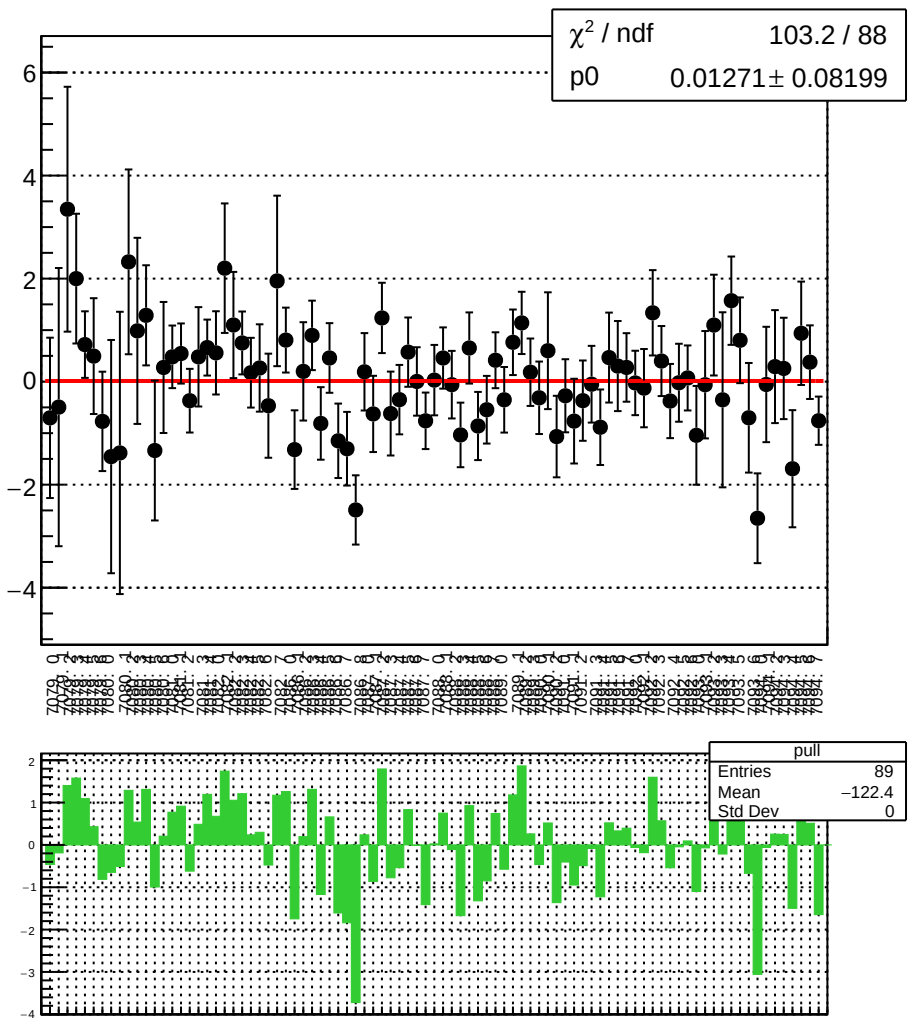

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.28 / 88
p0 5.555e−06 ± 3.674e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −58.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

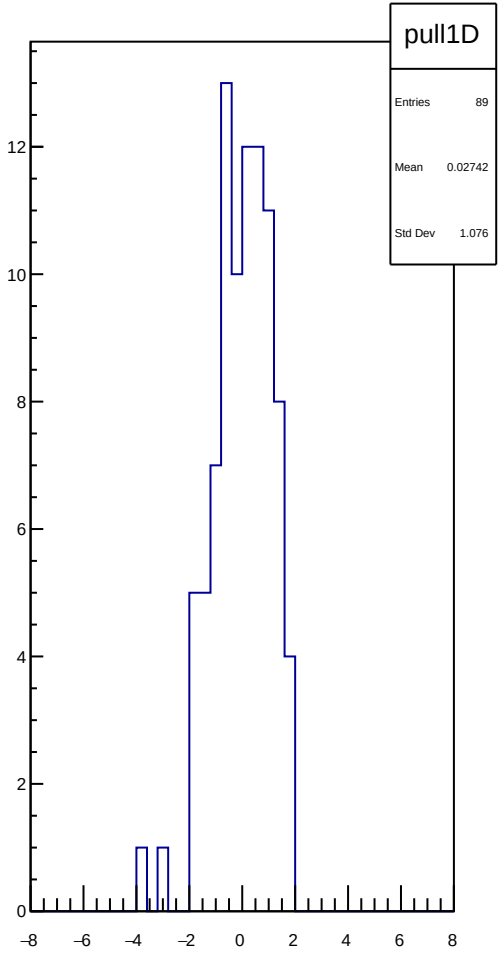

pull1D
Entries 89
Mean 0.03557
Std Dev 0.9311
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

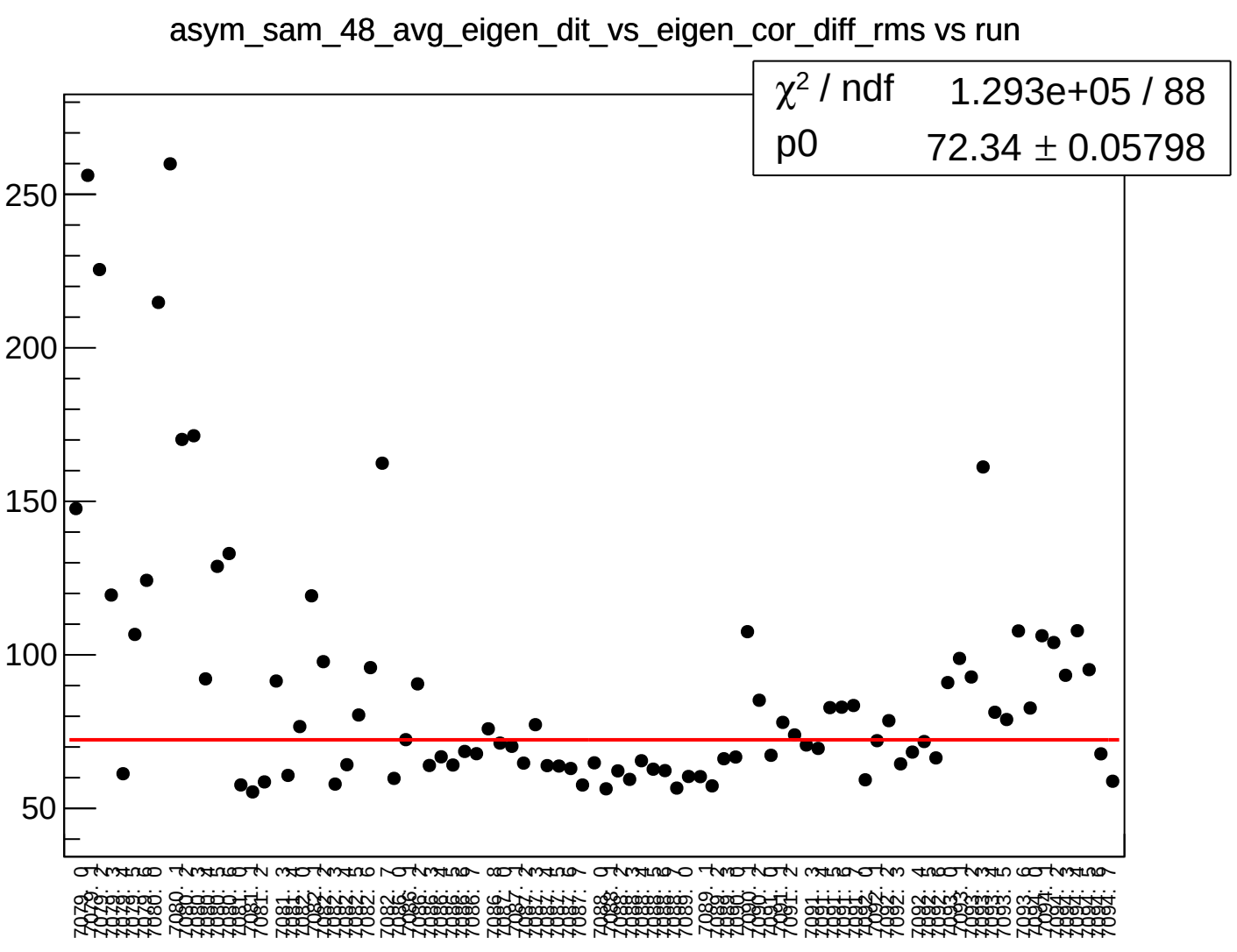

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.682e+04 / 88
p0 0.003347 ± 2.598e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

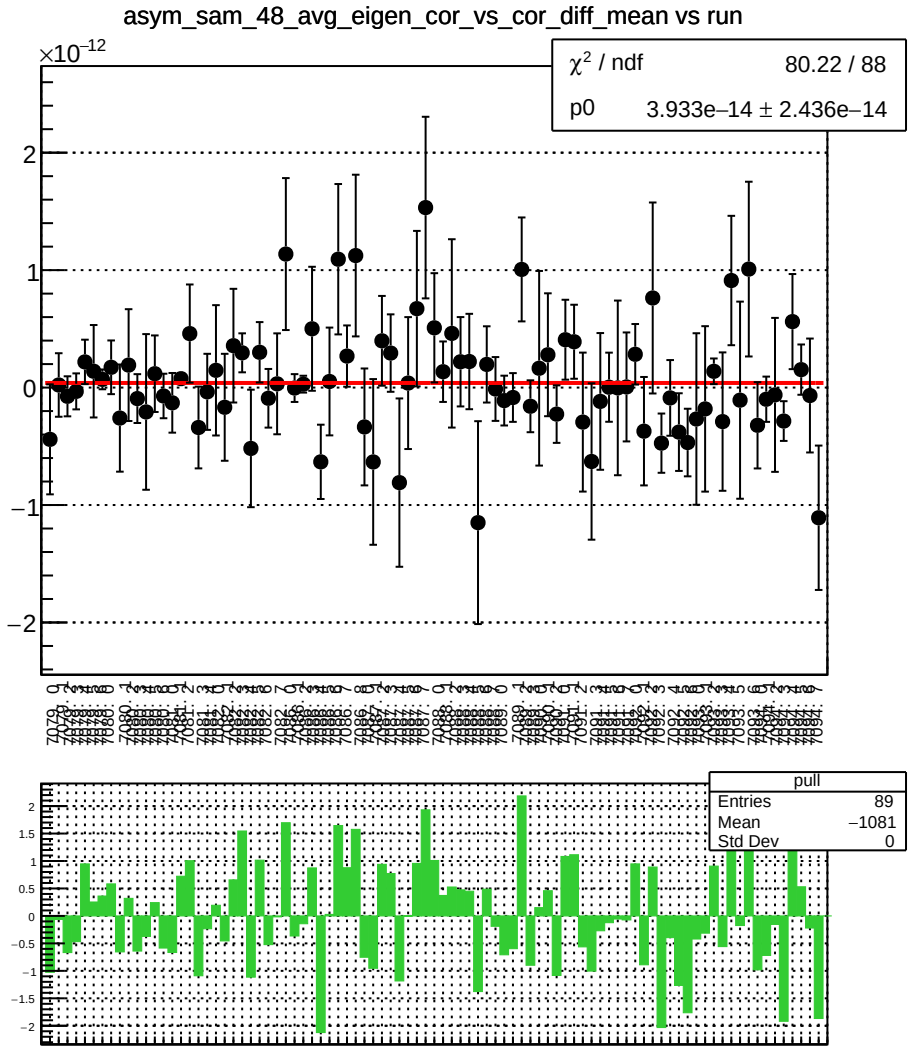

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.01271 ± 0.08199
pull
Entries 89
Mean −122.4
Std Dev 0
pull1D
Entries 89
Mean 0.02742
Std Dev 1.076

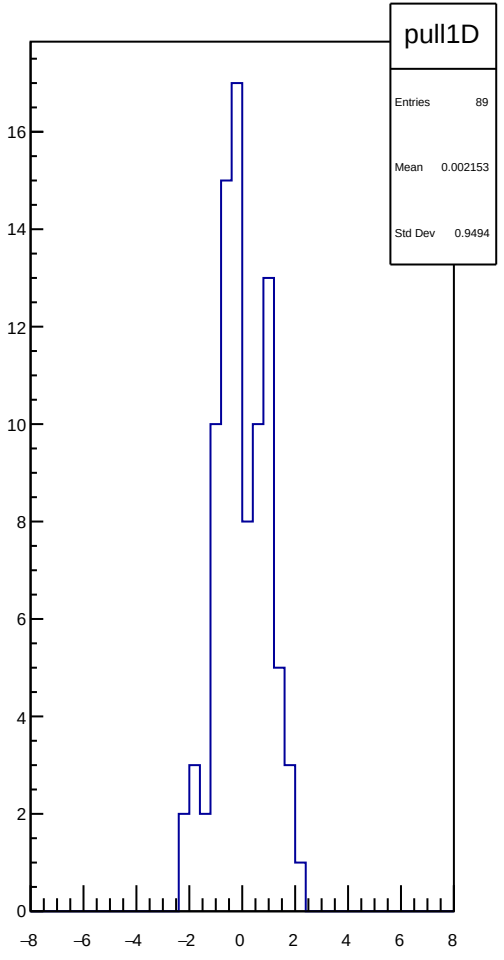

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.293e+05 / 88
p0 72.34 ± 0.05798
250
200
150
100
50

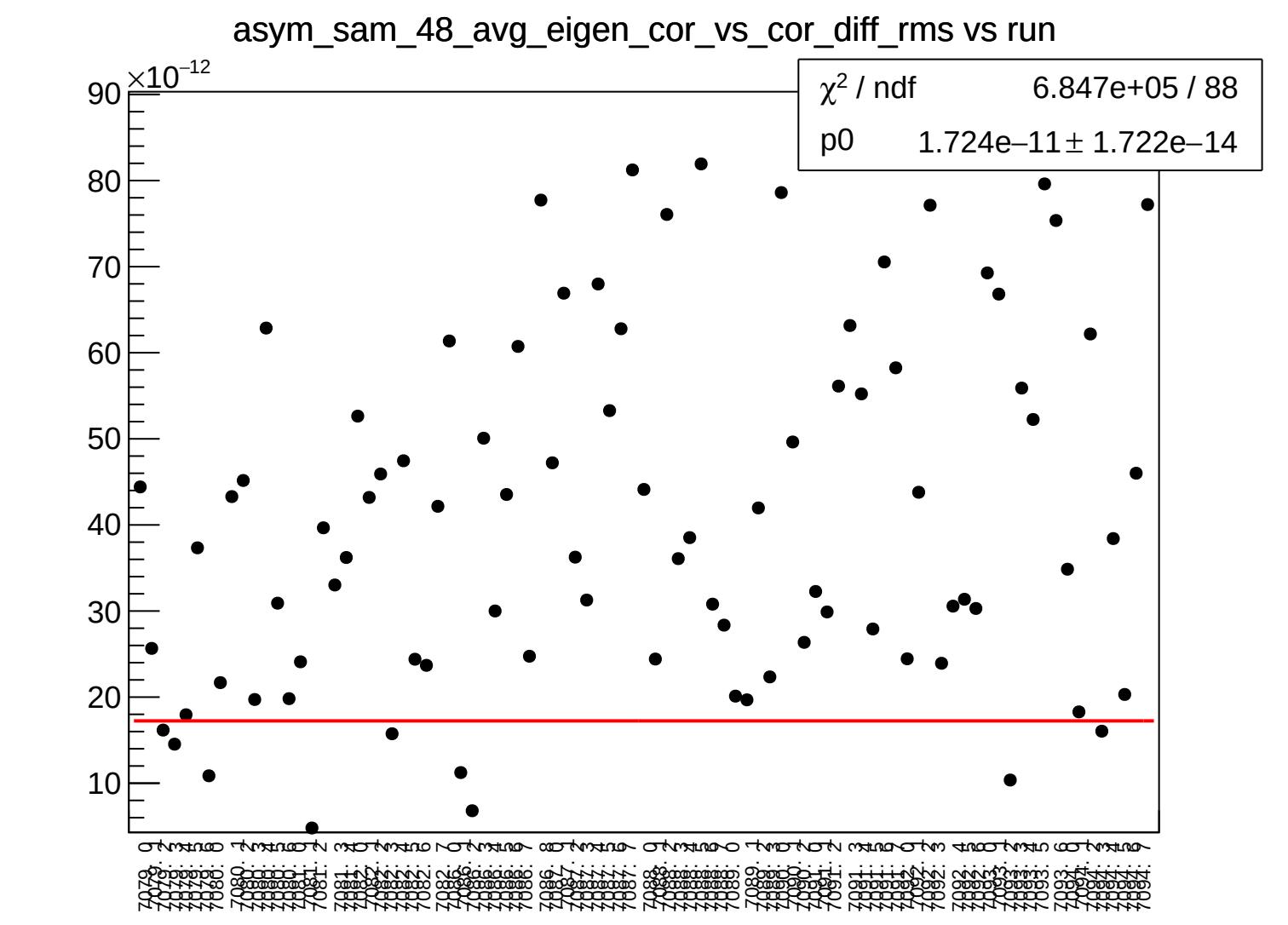

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.01271 ± 0.08199
pull
Entries 89
Mean −122.4
Std Dev 0

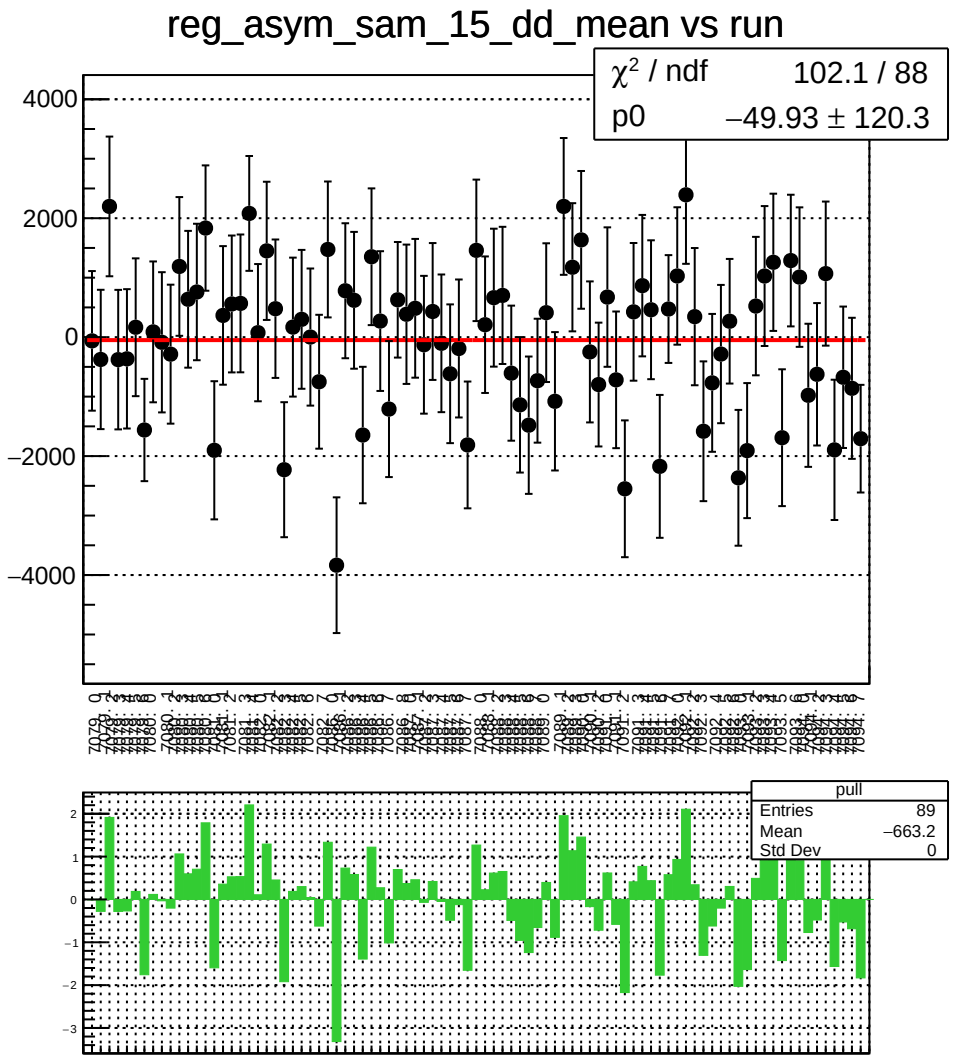

pull1D
Entries 89
Mean 0.02742
Std Dev 1.076

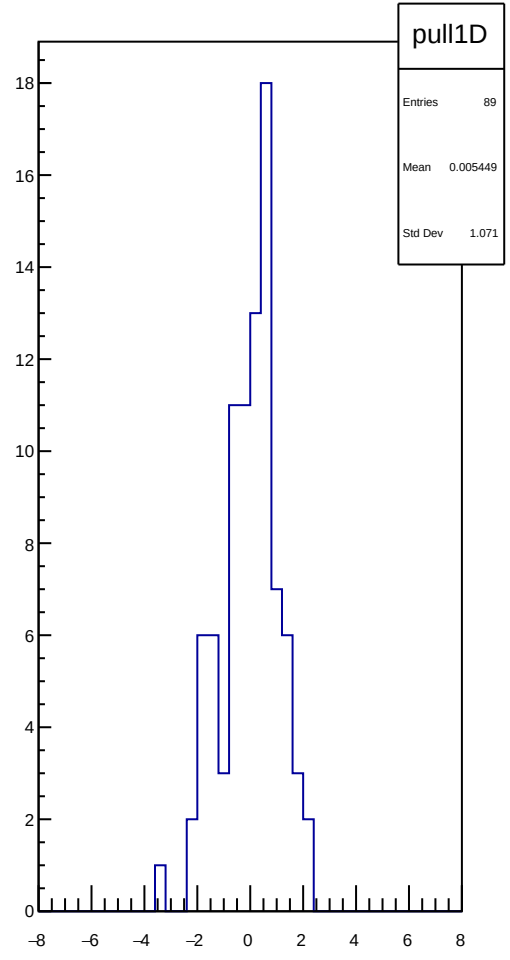

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.293e+05 / 88
p0 72.34 ± 0.05798
250
200
150
100
50

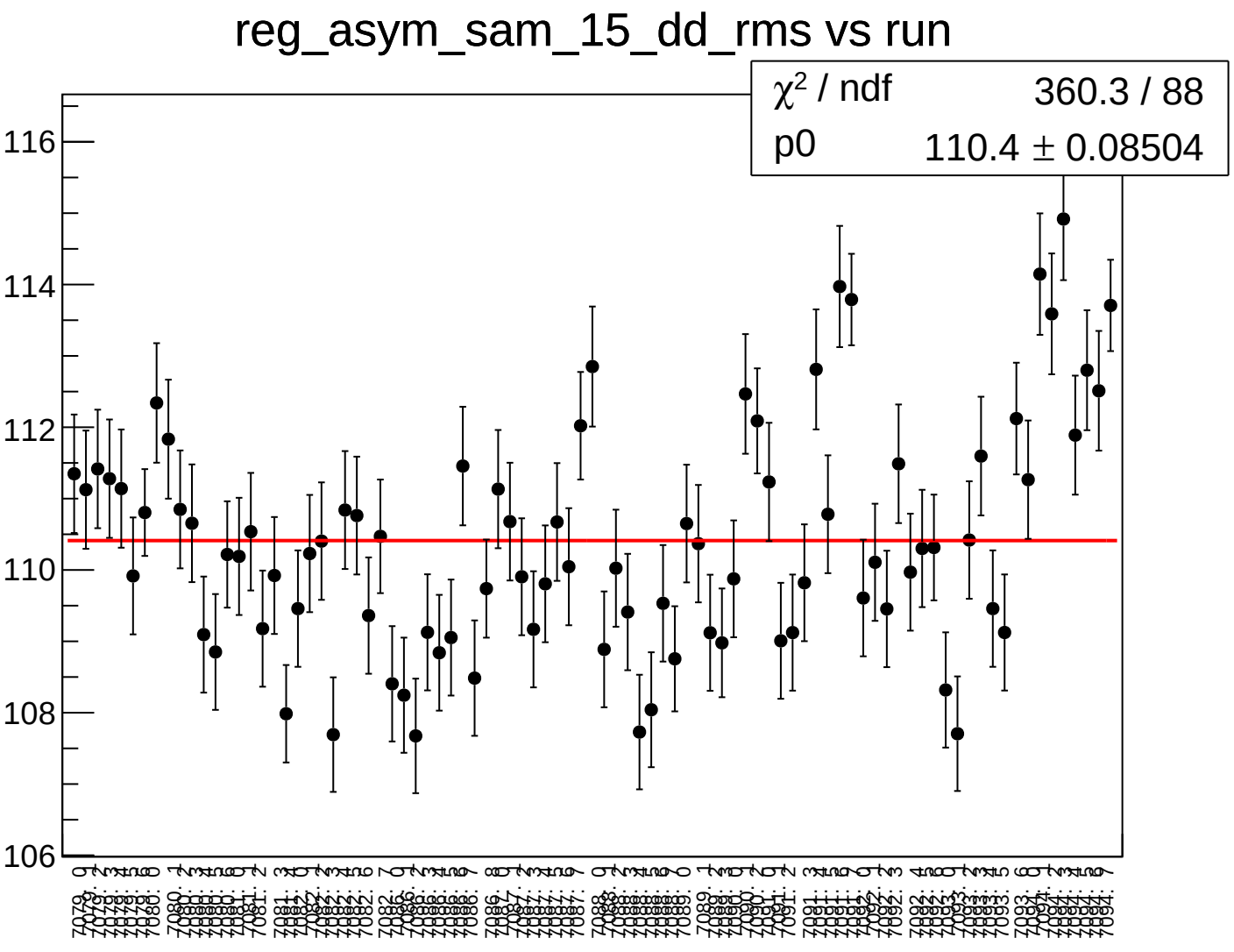

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.22 / 88
p0 3.933e−14 ± 2.436e−14
pull
Entries 89
Mean −1081
Std Dev 0

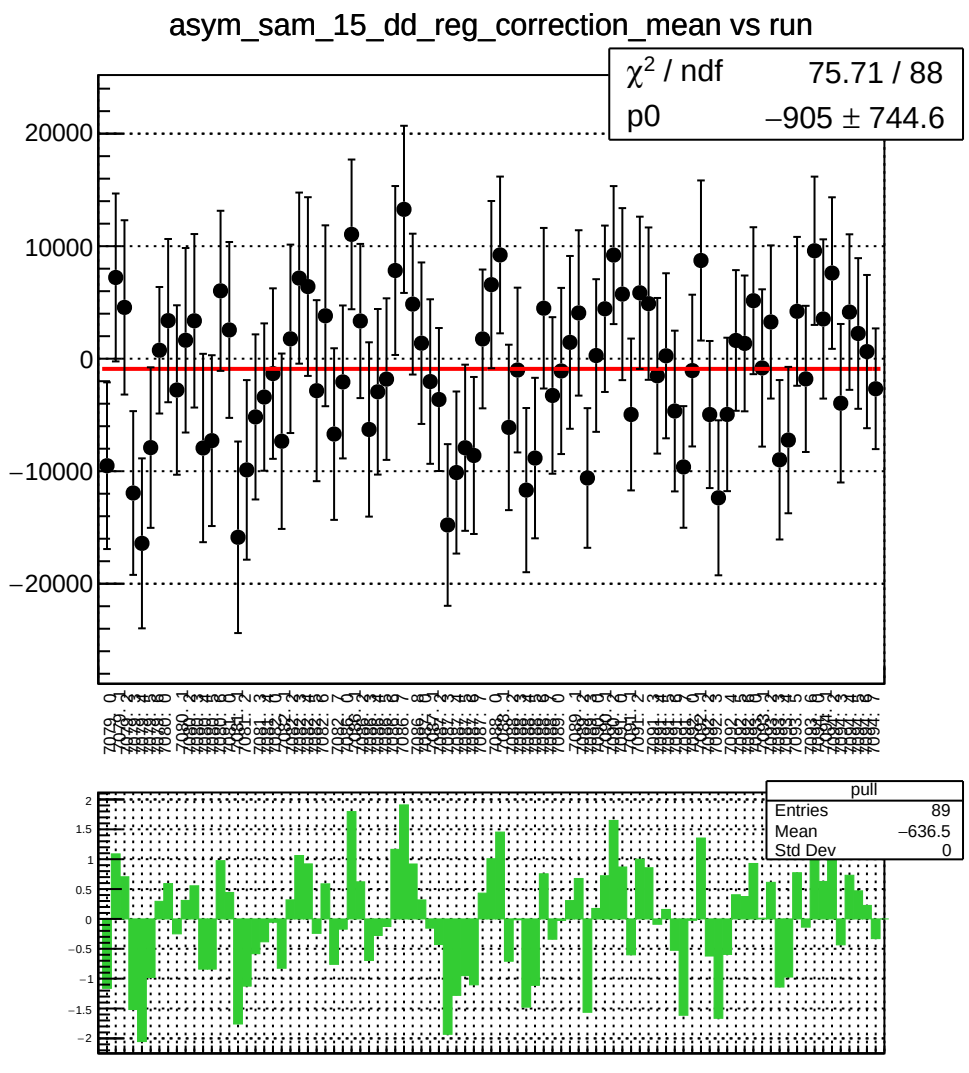

pull1D
Entries 89
Mean 0.002153
Std Dev 0.9494

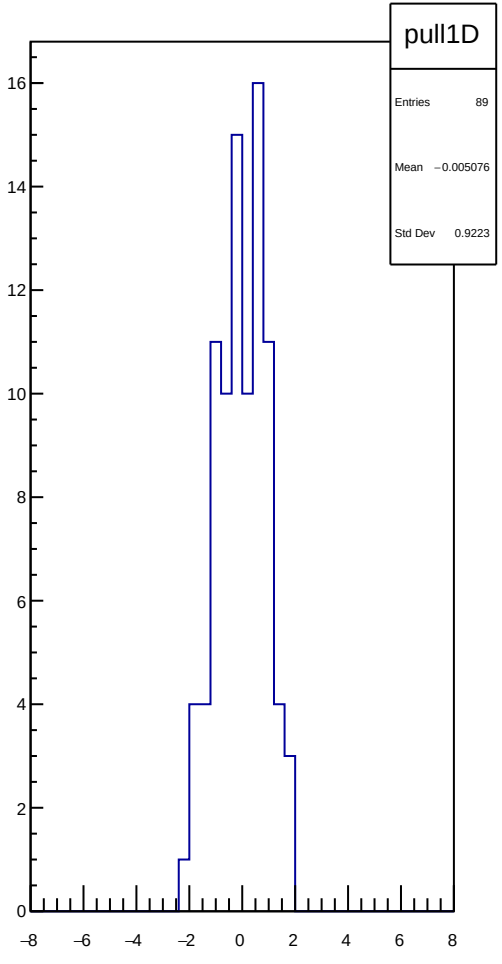

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 6.847e+05 / 88
p0 1.724e−11 ± 1.722e−14
×10⁻¹²
90
80
70
60
50
40
30
20
10

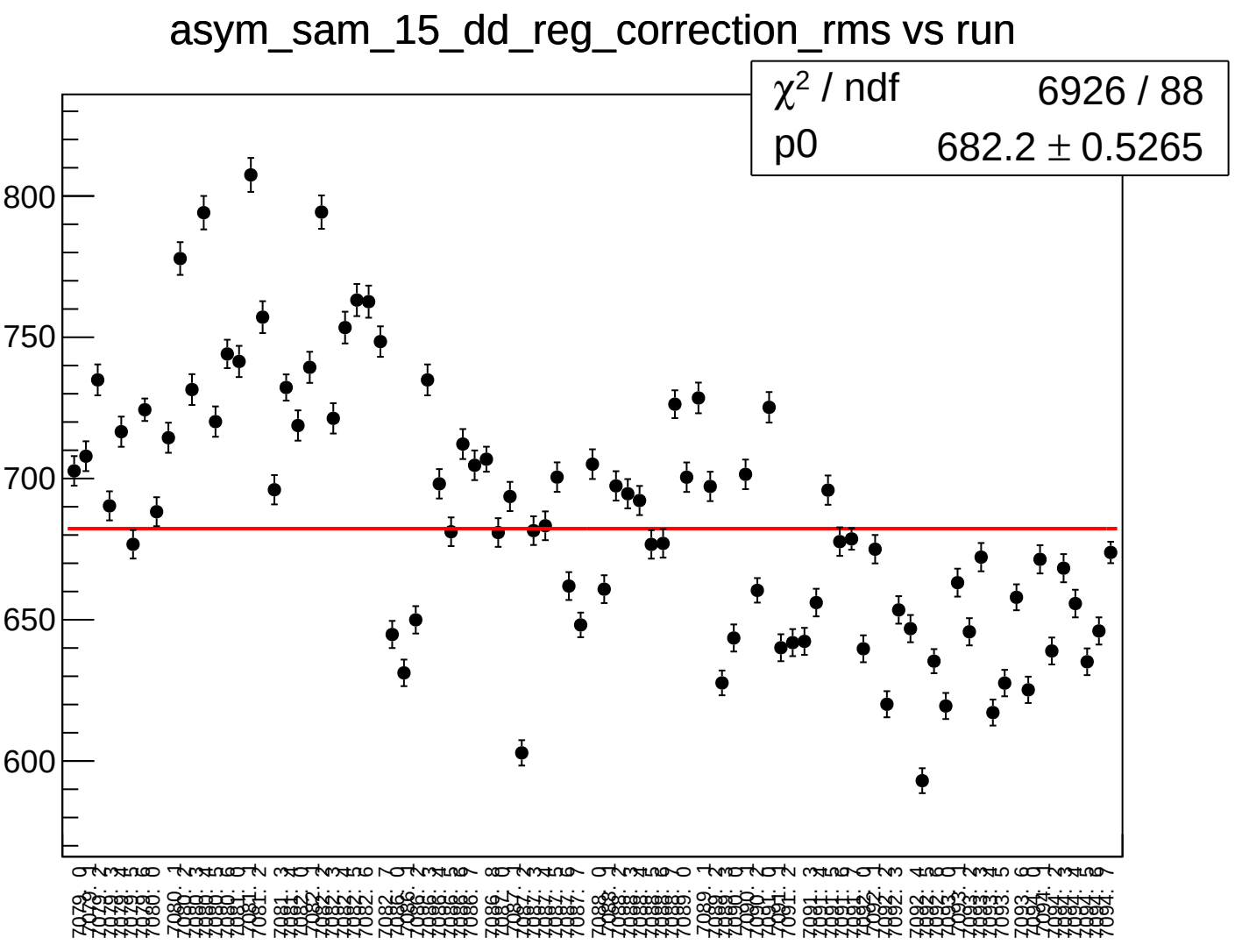

reg_asym_sam_15_dd_mean vs run
χ² / ndf 102.1 / 88
p0 −49.93 ± 120.3
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −663.2
Std Dev 0
2
1
0
−1
−2
−3

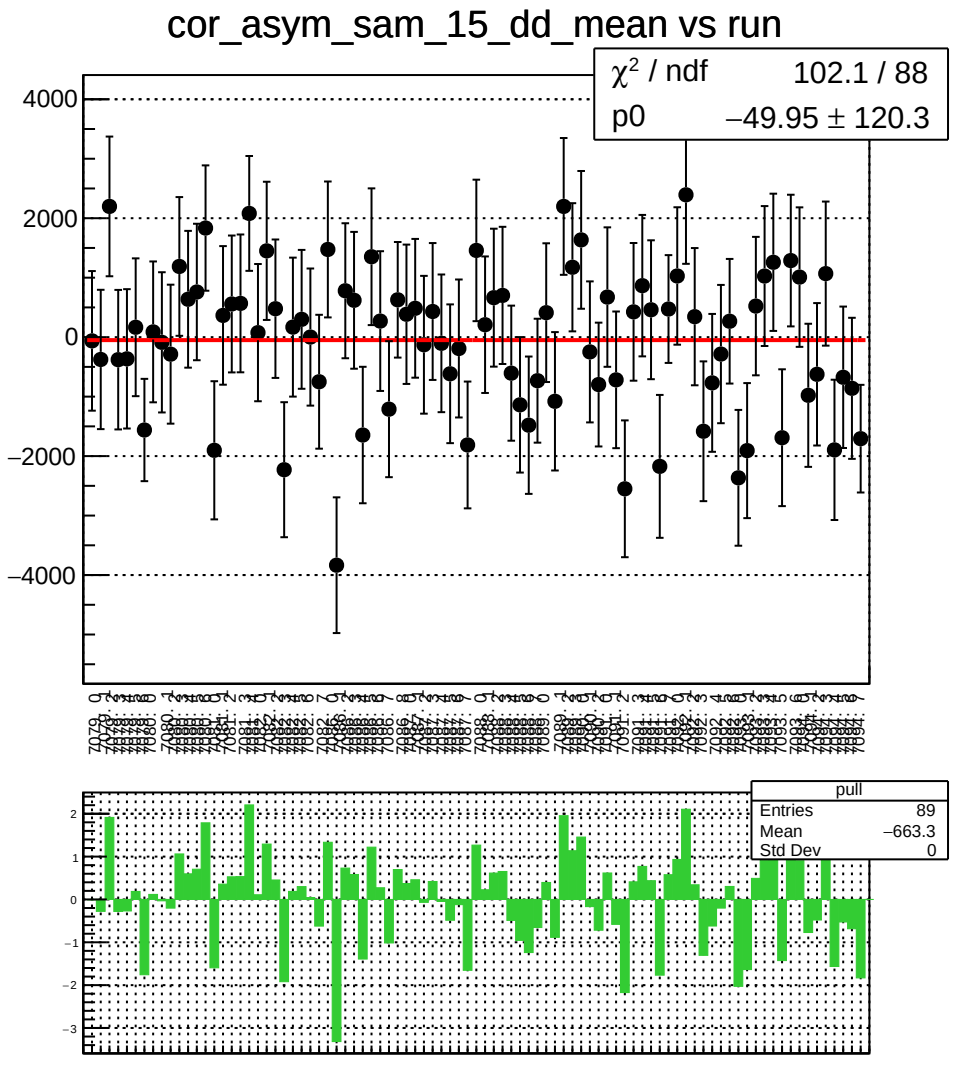

pull1D
Entries 89
Mean 0.005449
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

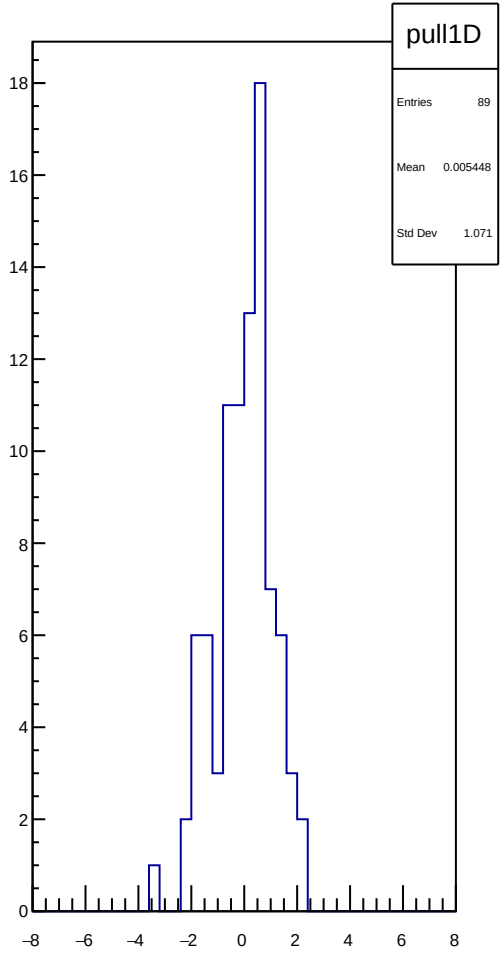

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 360.3 / 88
p0 110.4 ± 0.08504
116
114
112
110
108
106

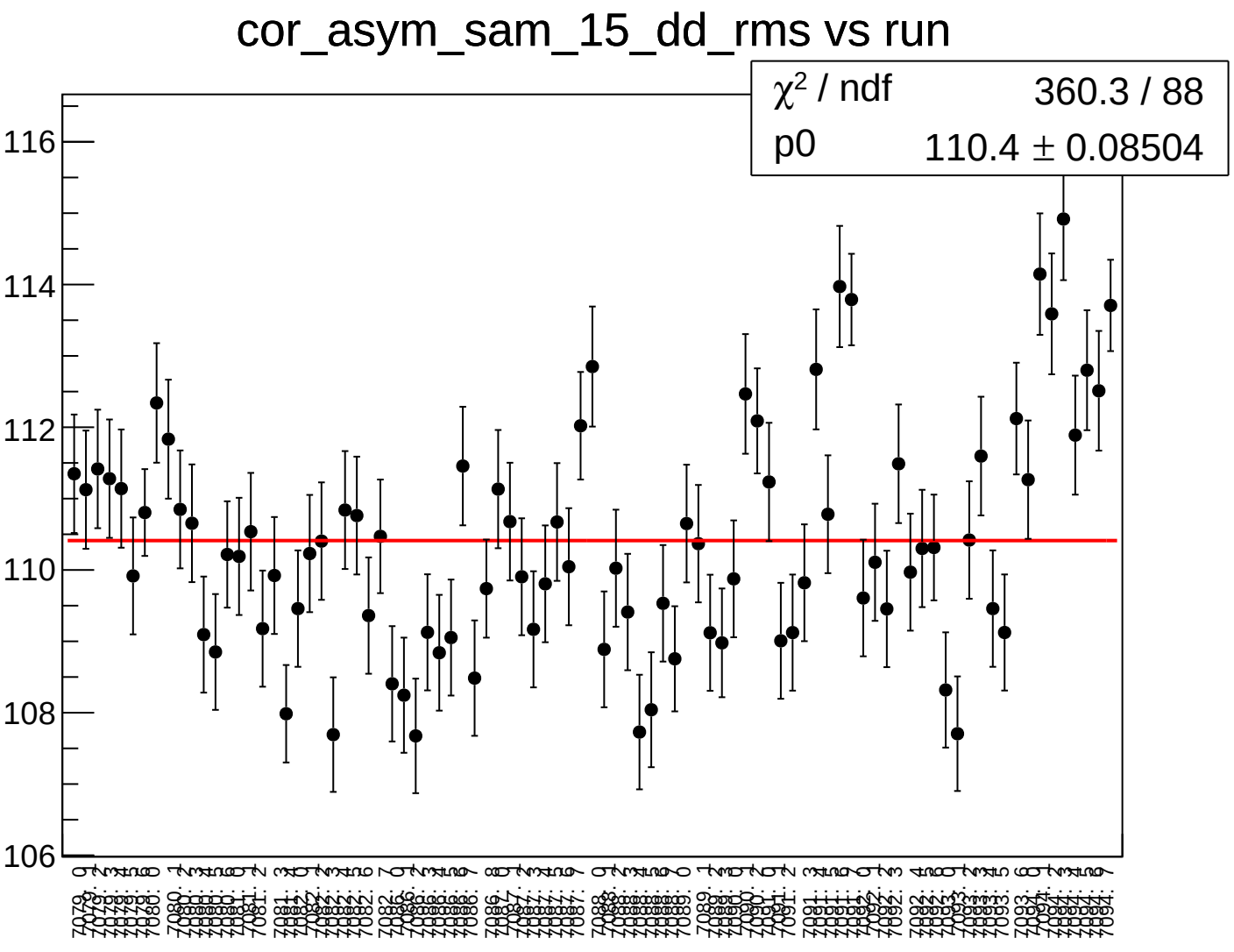

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 75.71 / 88
p0 −905 ± 744.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −636.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

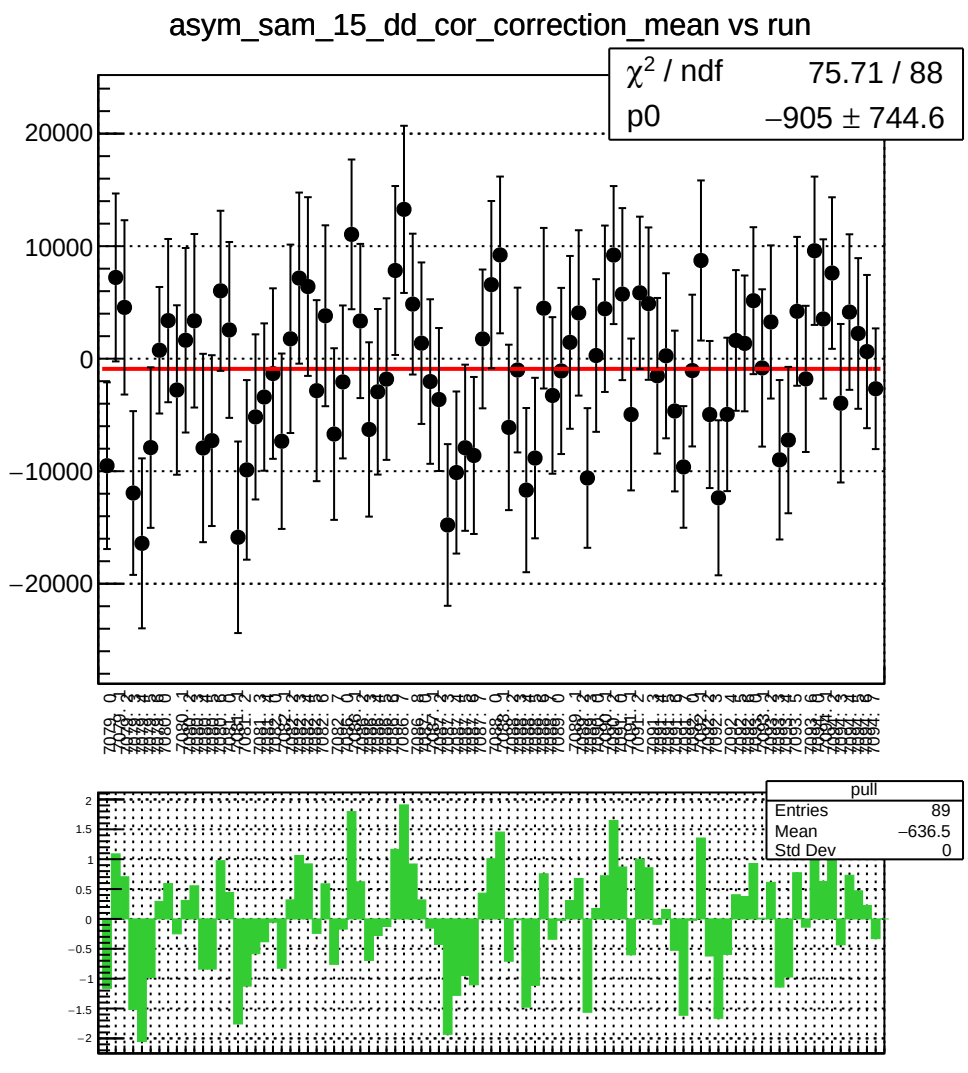

pull1D
Entries 89
Mean −0.005076
Std Dev 0.9223
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

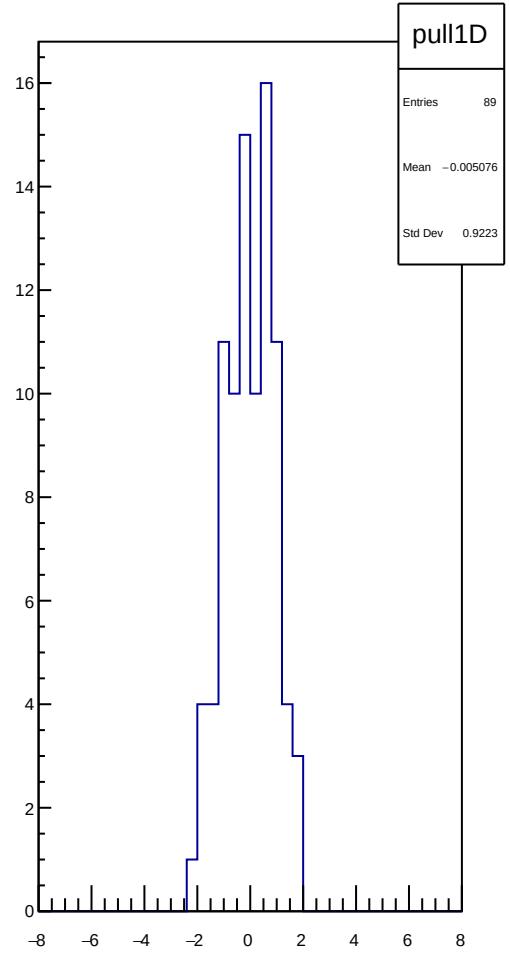

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 6926 / 88
p0 682.2 ± 0.5265
800
750
700
650
600

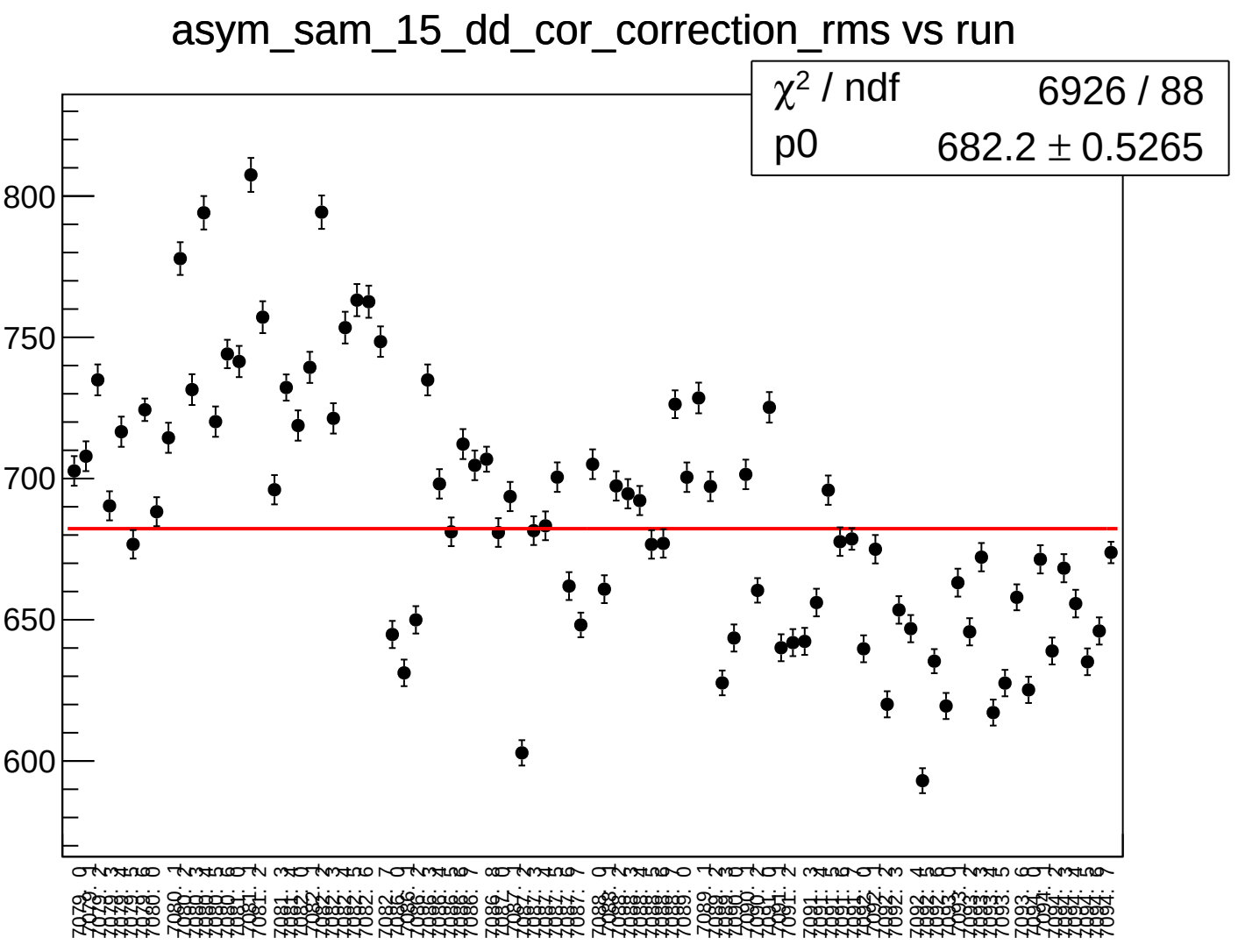

cor_asym_sam_15_dd_mean vs run
χ² / ndf 102.1 / 88
p0 −49.95 ± 120.3
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −663.3
Std Dev 0
2
1
0
−1
−2
−3

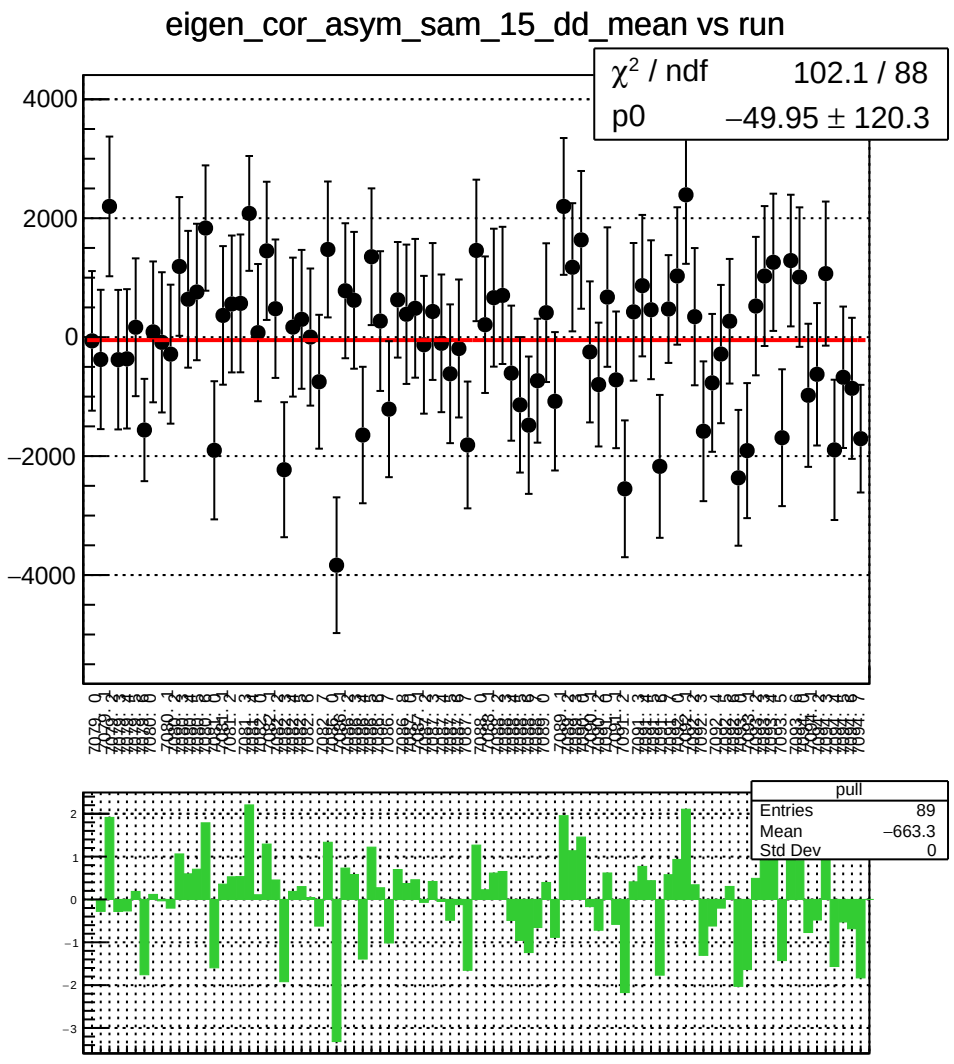

pull1D
Entries 89
Mean 0.005448
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

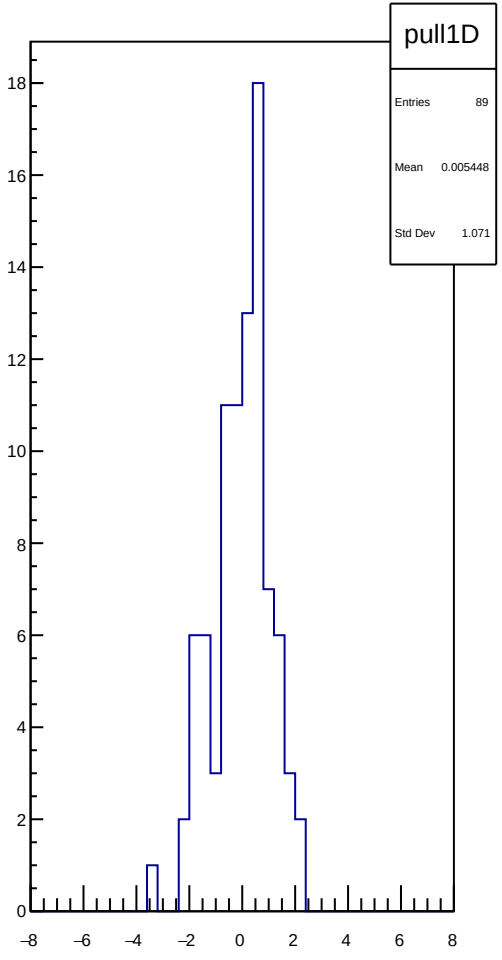

cor_asym_sam_15_dd_rms vs run
χ² / ndf 360.3 / 88
p0 110.4 ± 0.08504
116
114
112
110
108
106

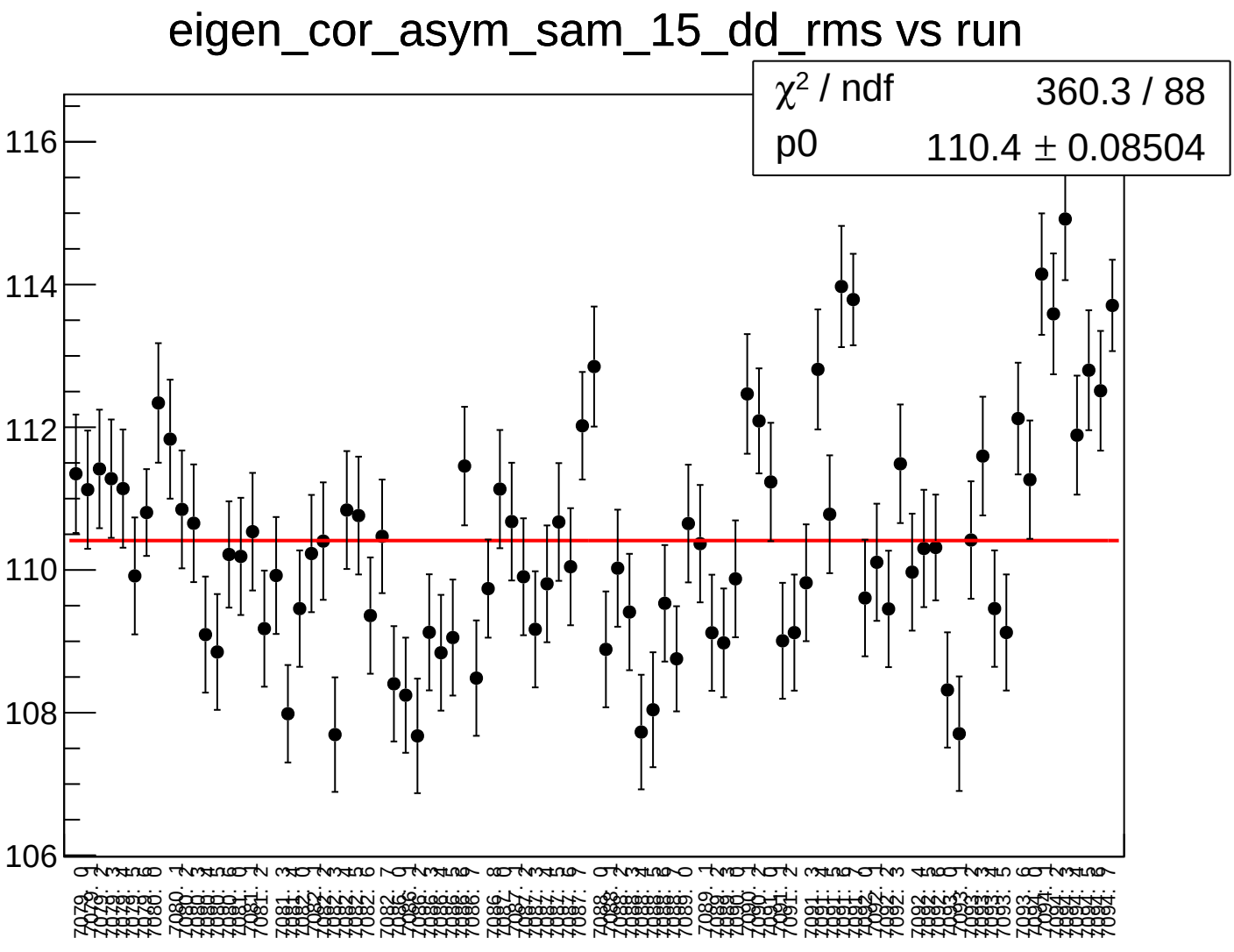

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 75.71 / 88
p0 −905 ± 744.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −636.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

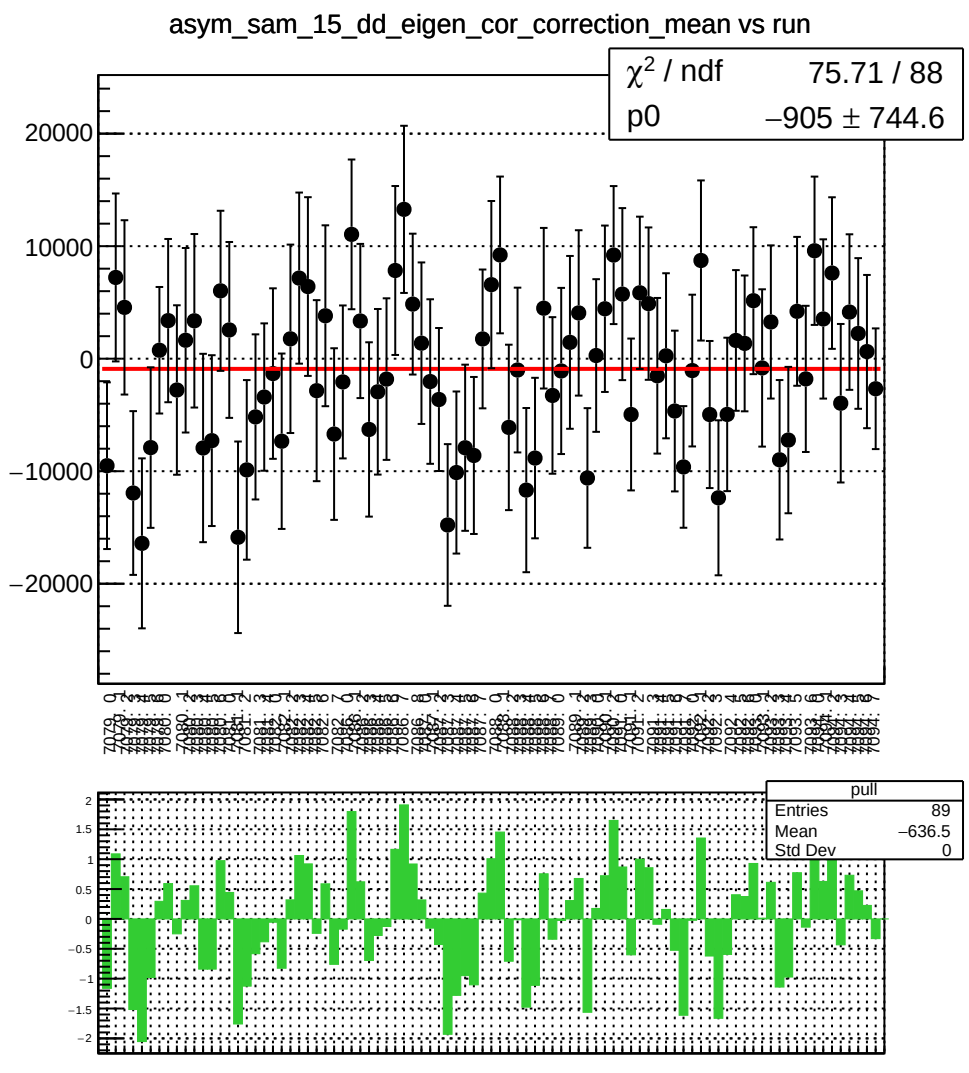

pull1D
Entries 89
Mean −0.005076
Std Dev 0.9223
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

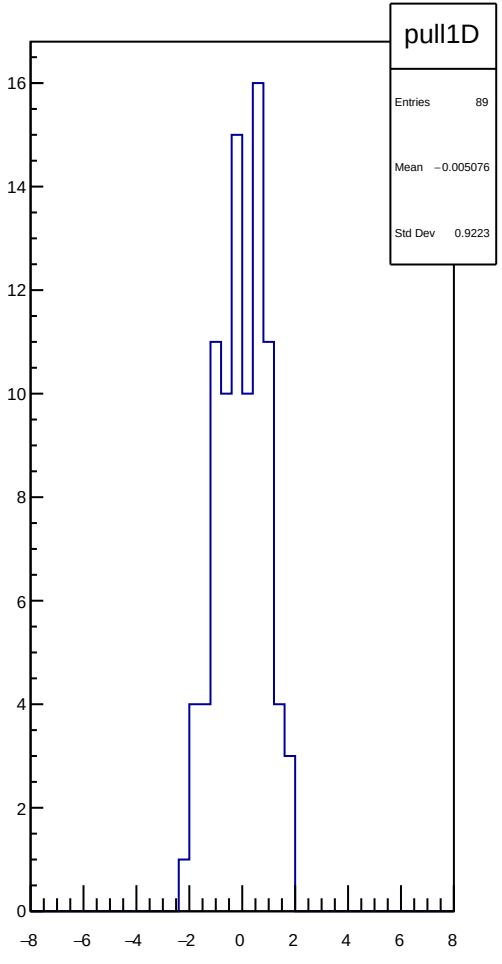

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 6926 / 88
p0 682.2 ± 0.5265
800
750
700
650
600

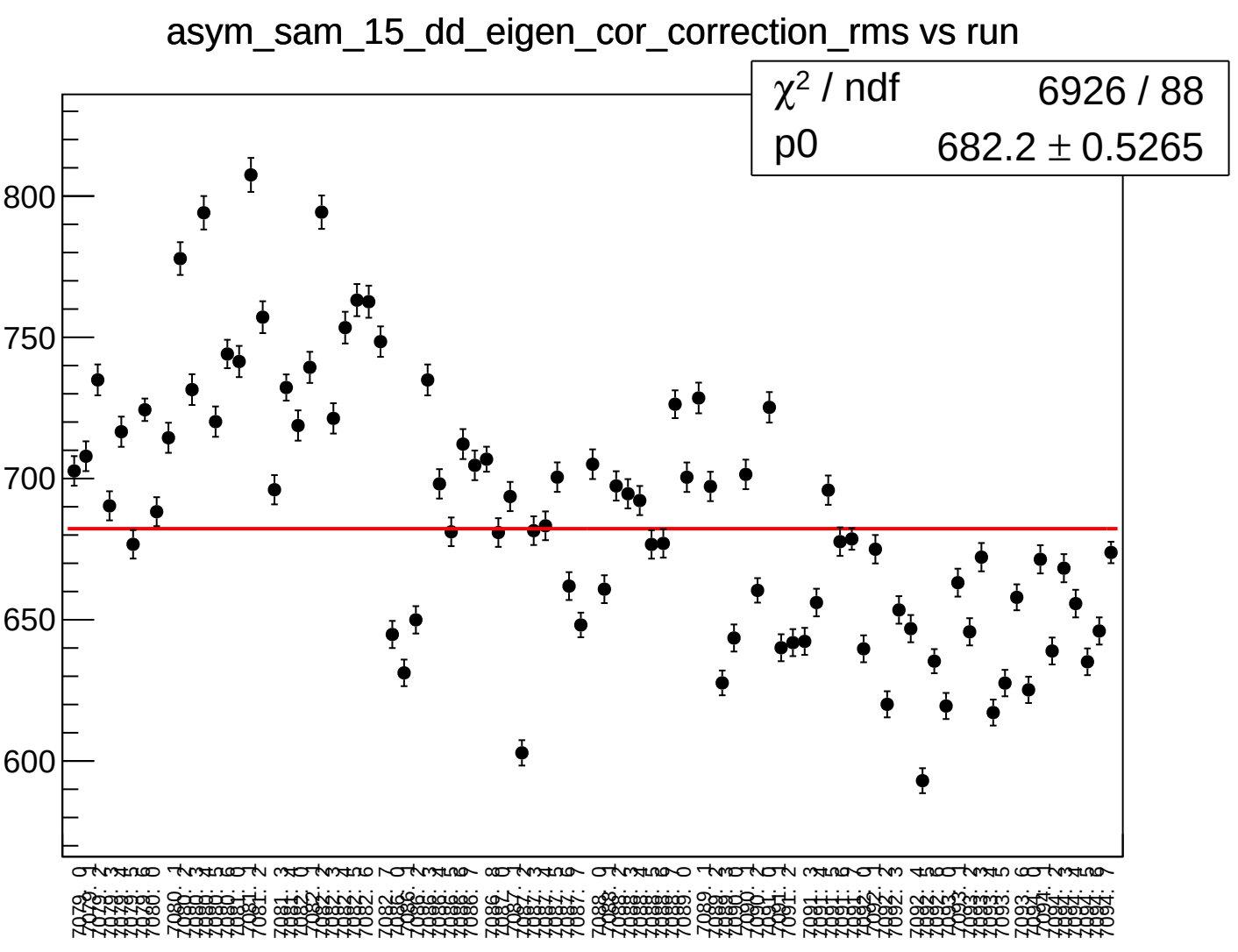

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 102.1 / 88
p0 −49.95 ± 120.3
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −663.3
Std Dev 0
2
1
0
−1
−2
−3

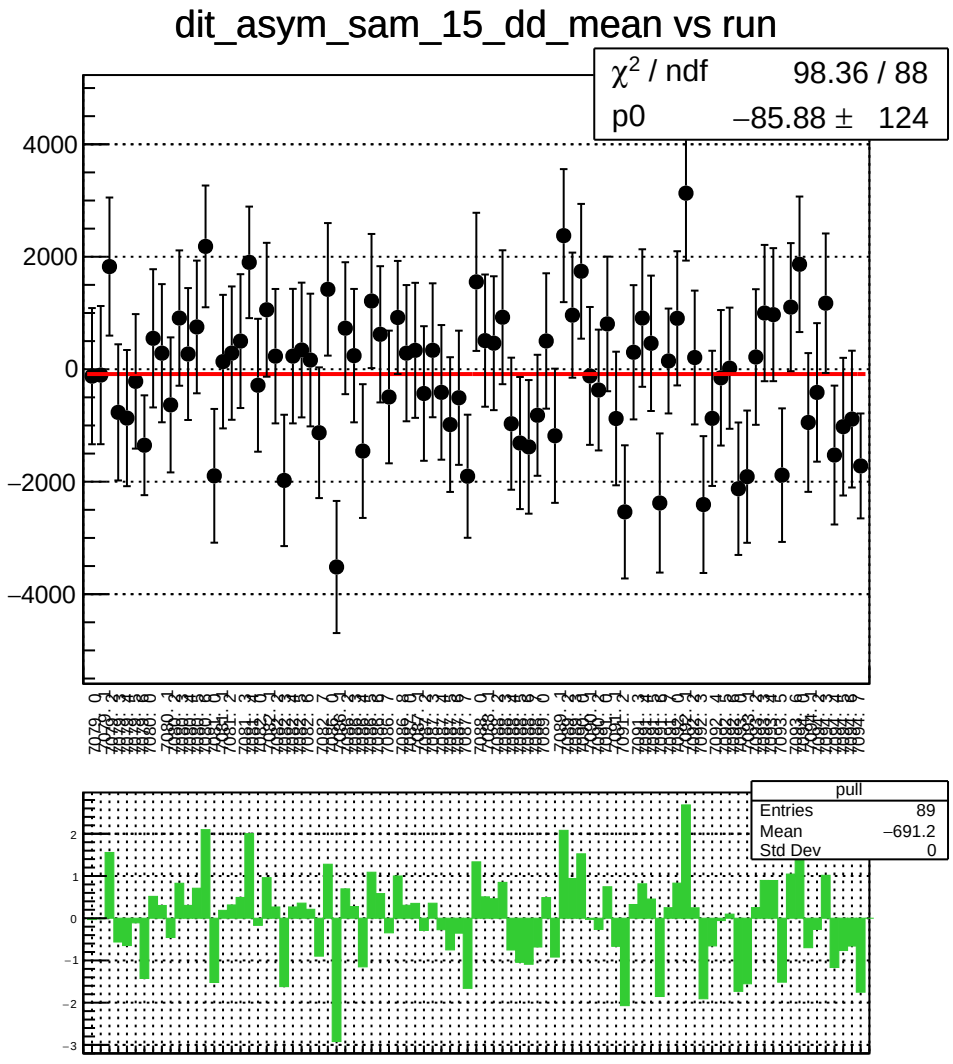

pull1D
Entries 89
Mean 0.005448
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

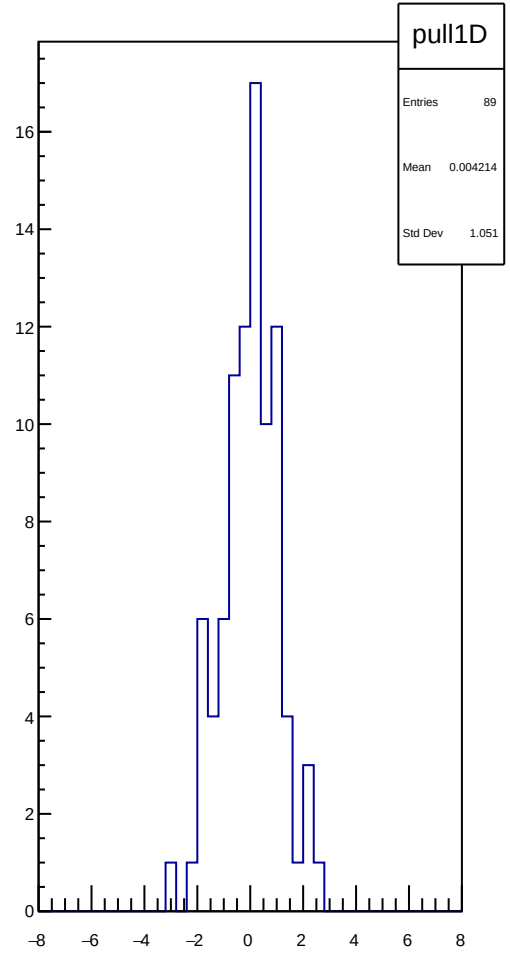

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 360.3 / 88
p0 110.4 ± 0.08504
116
114
112
110
108
106

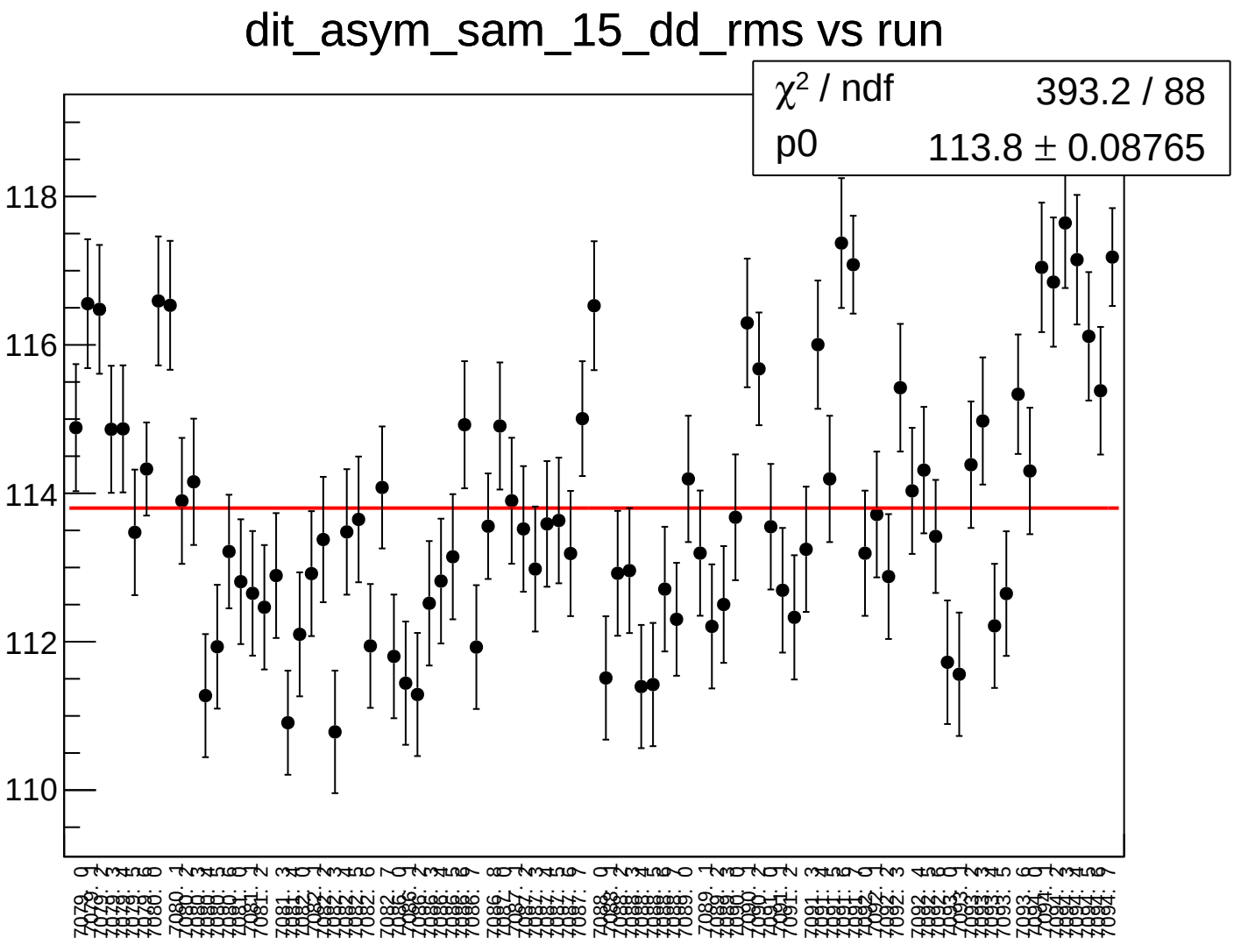

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.71 / 88
p0 −905 ± 744.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −636.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

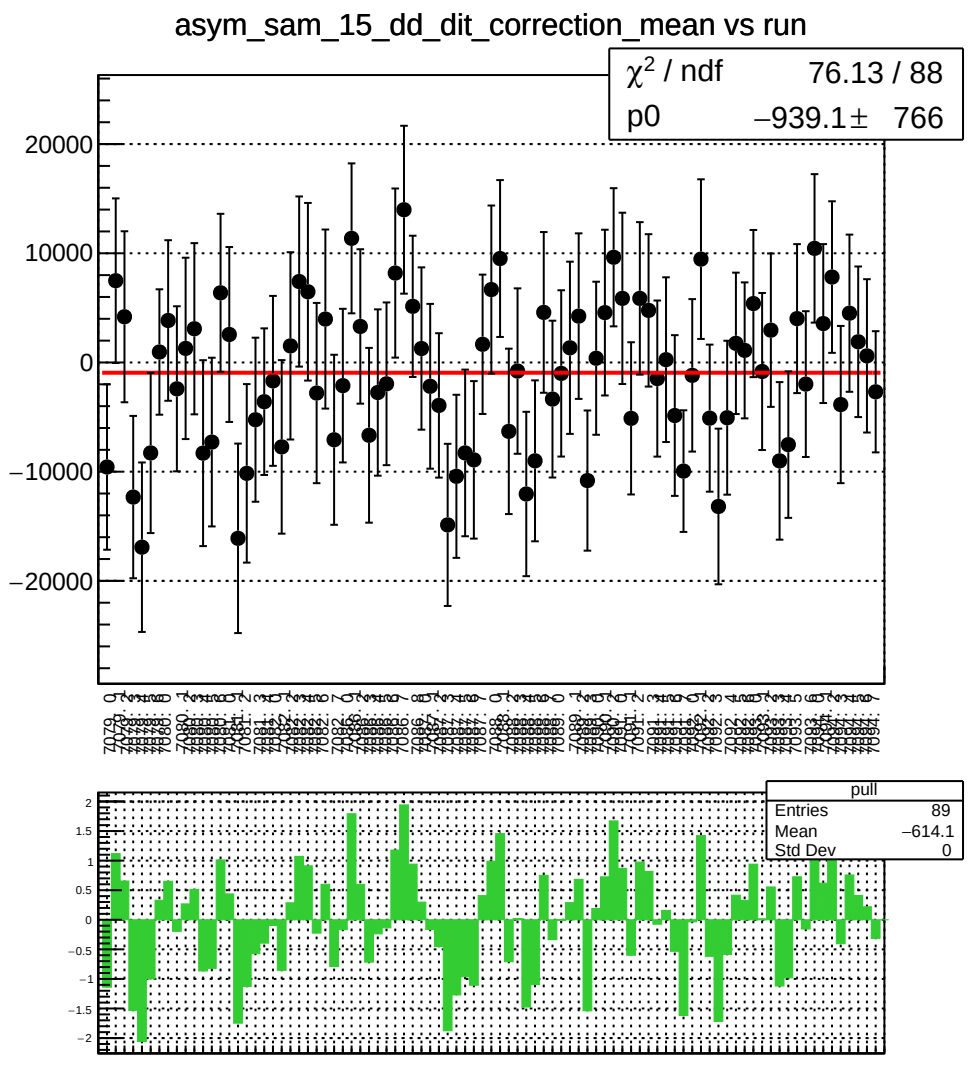

pull1D
Entries 89
Mean −0.005076
Std Dev 0.9223
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

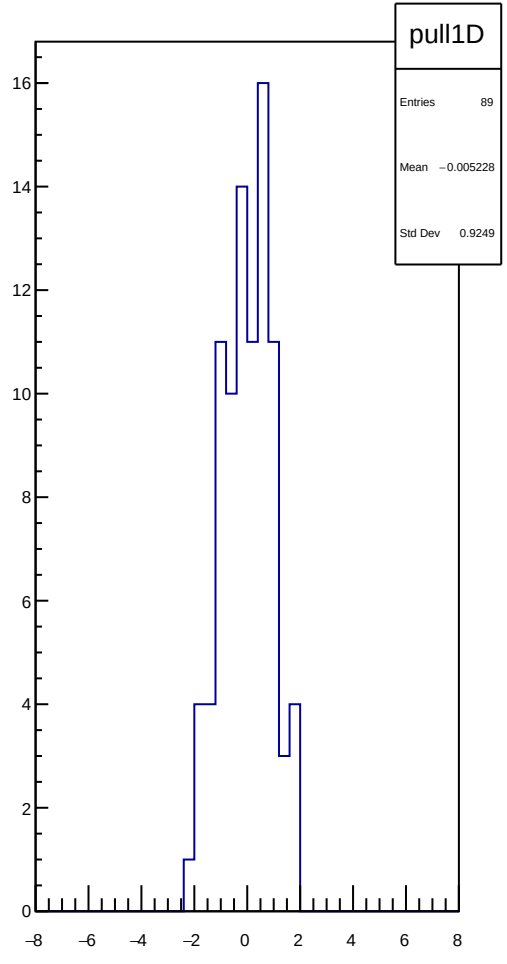

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 6926 / 88
p0 682.2 ± 0.5265
800
750
700
650
600

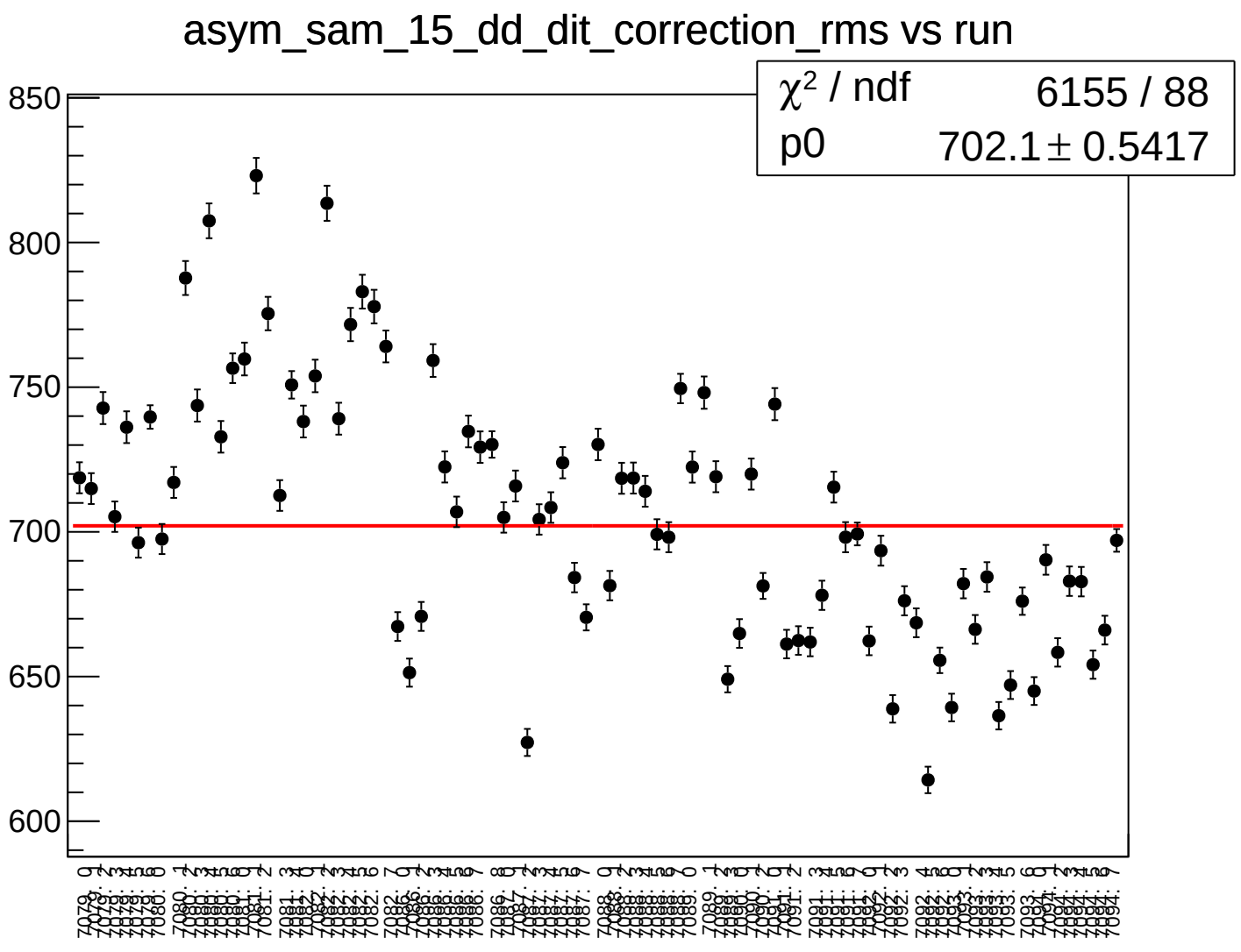

dit_asym_sam_15_dd_mean vs run
χ² / ndf 98.36 / 88
p0 −85.88 ± 124
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −691.2
Std Dev 0
2
1
0
−1
−2
−3

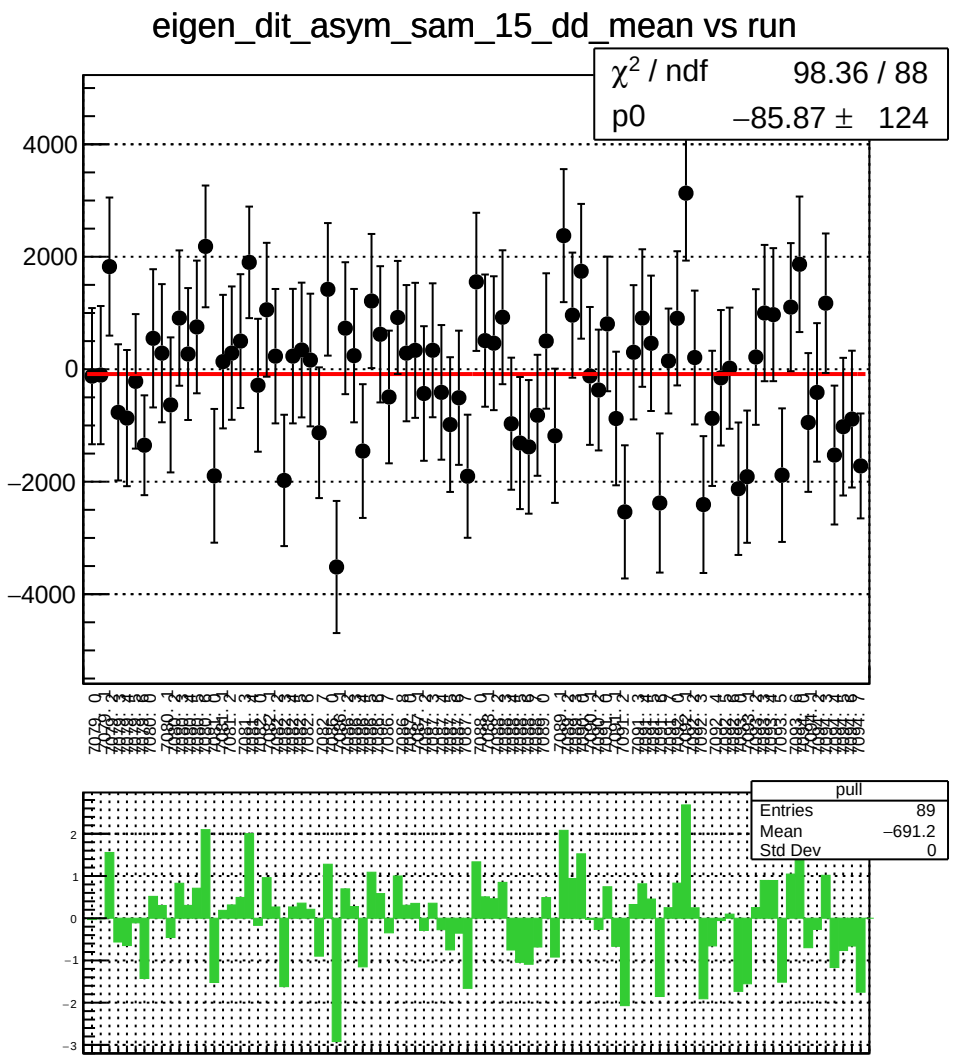

pull1D
Entries 89
Mean 0.004214
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

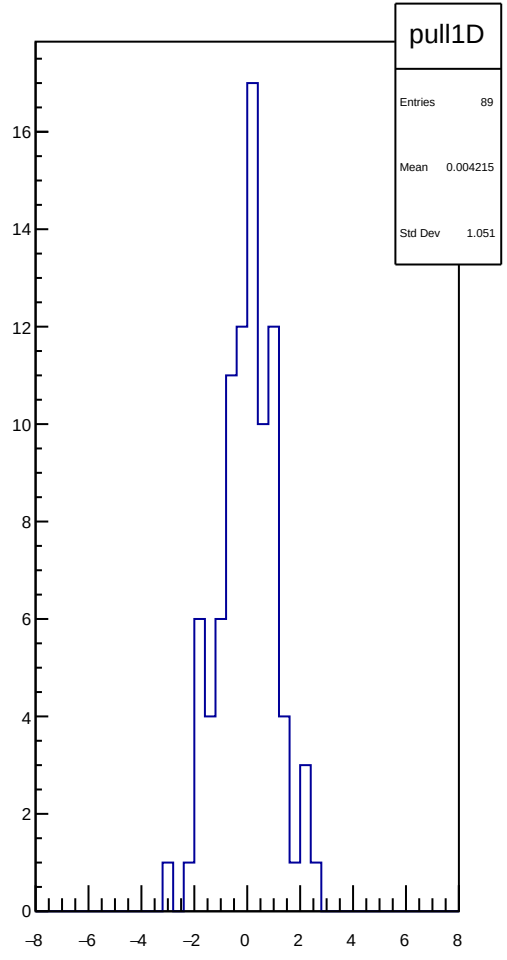

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 393.2 / 88
p0 113.8 ± 0.08765
118
116
114
112
110

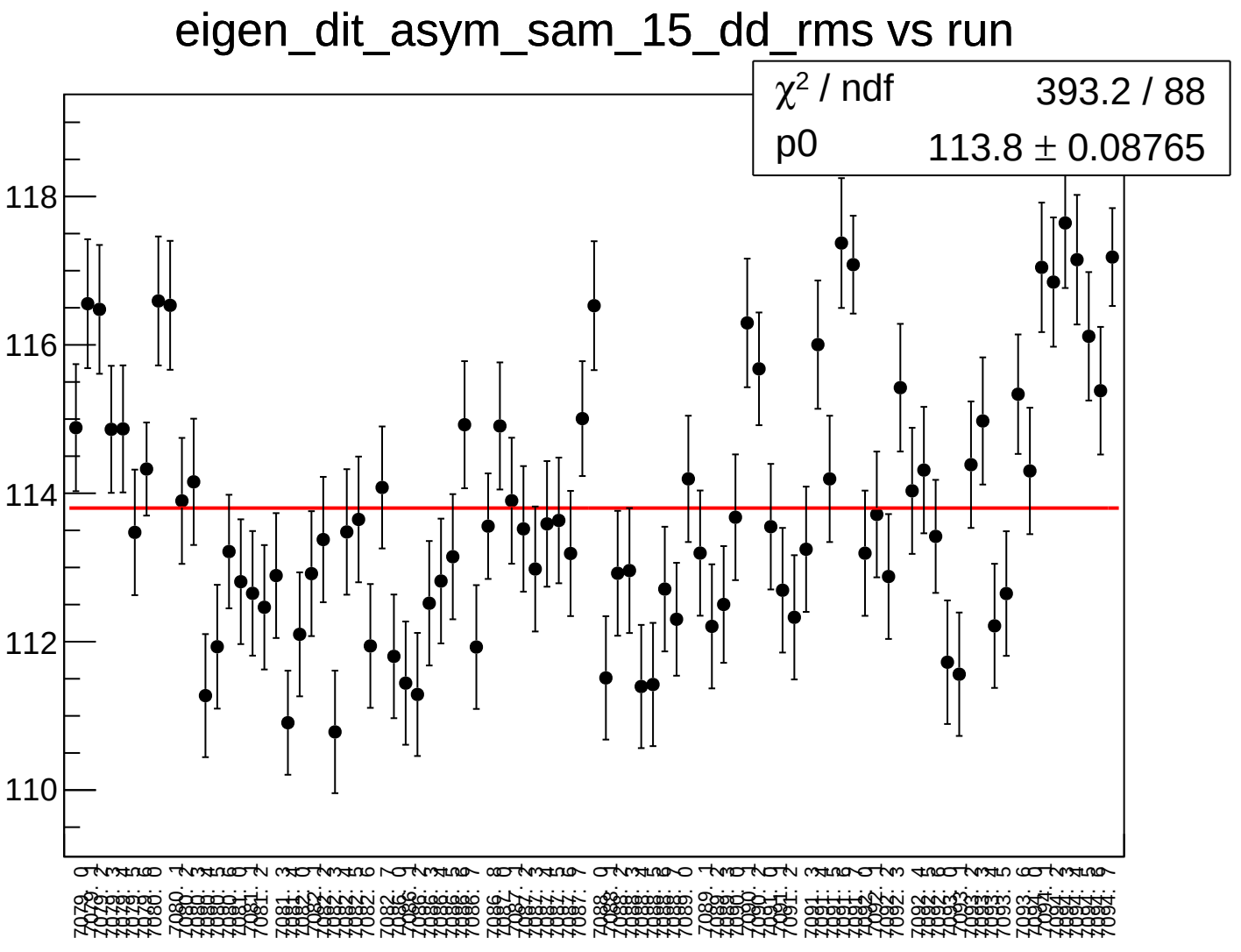

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 76.13 / 88
p0 −939.1 ± 766
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −614.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

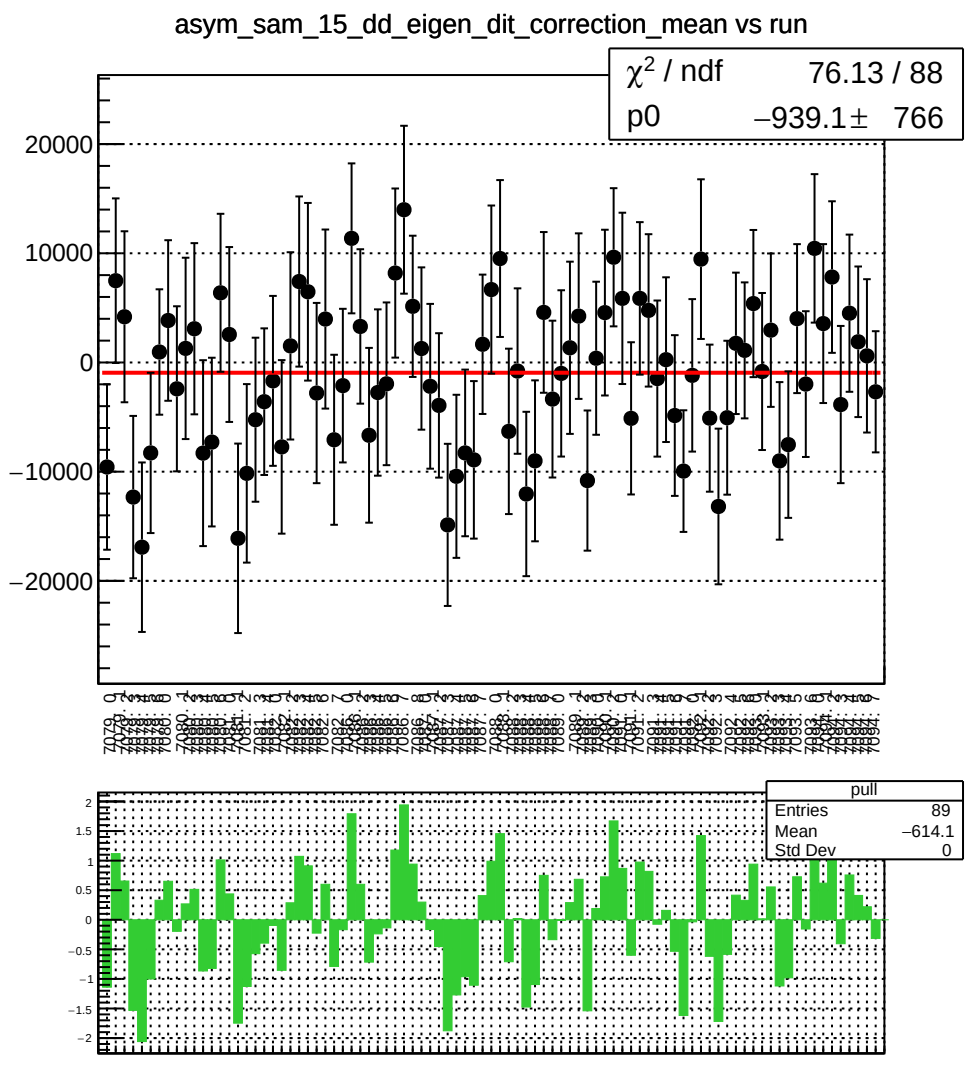

pull1D
Entries 89
Mean −0.005228
Std Dev 0.9249
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

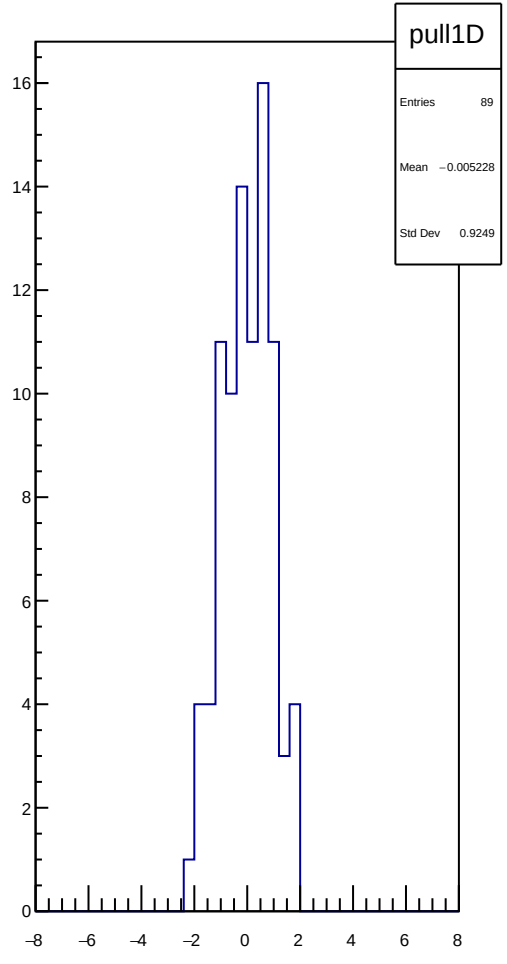

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 6155 / 88
p0 702.1 ± 0.5417
850
800
750
700
650
600

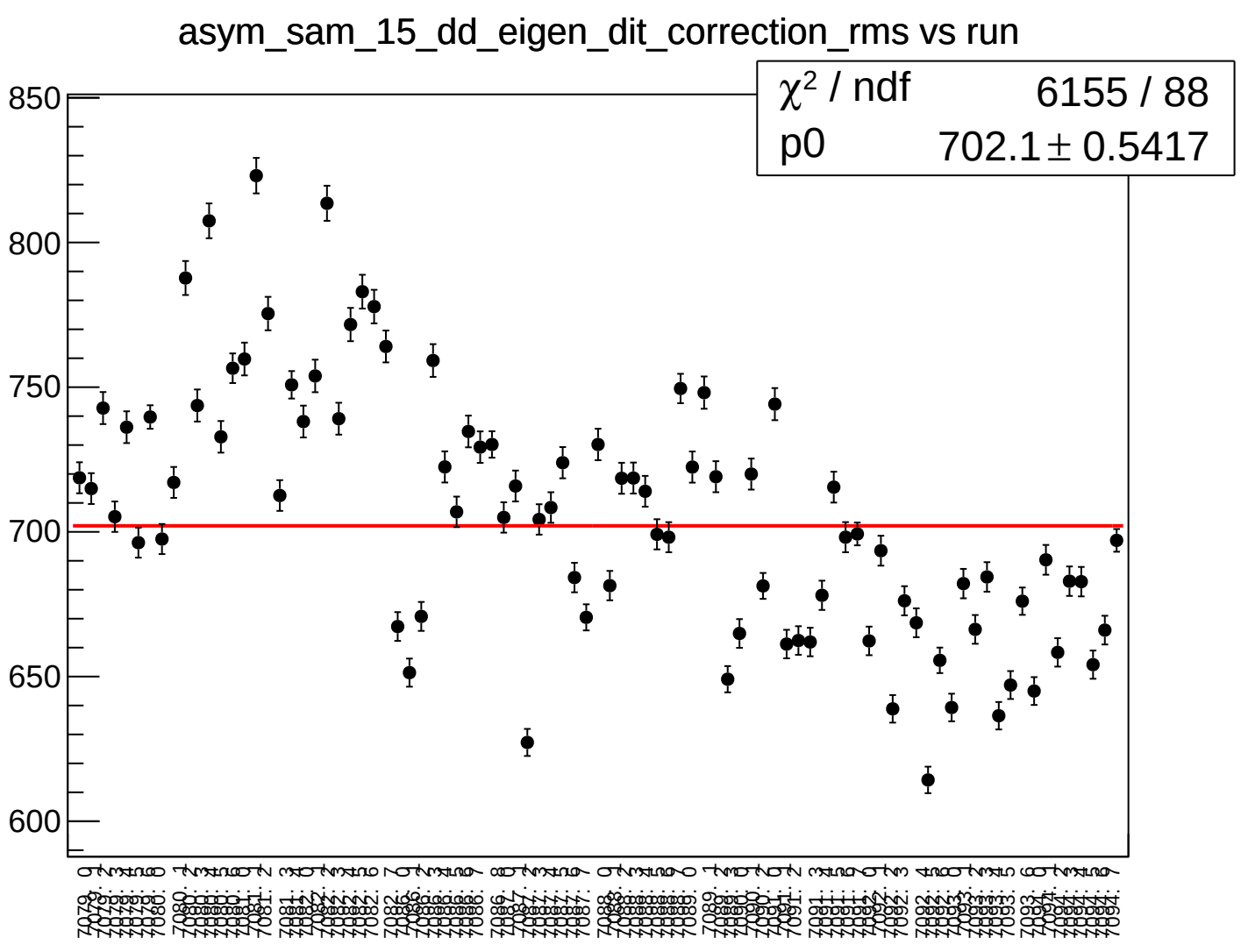

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 98.36 / 88
p0 −85.87 ± 124
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −691.2
Std Dev 0
2
1
0
−1
−2
−3

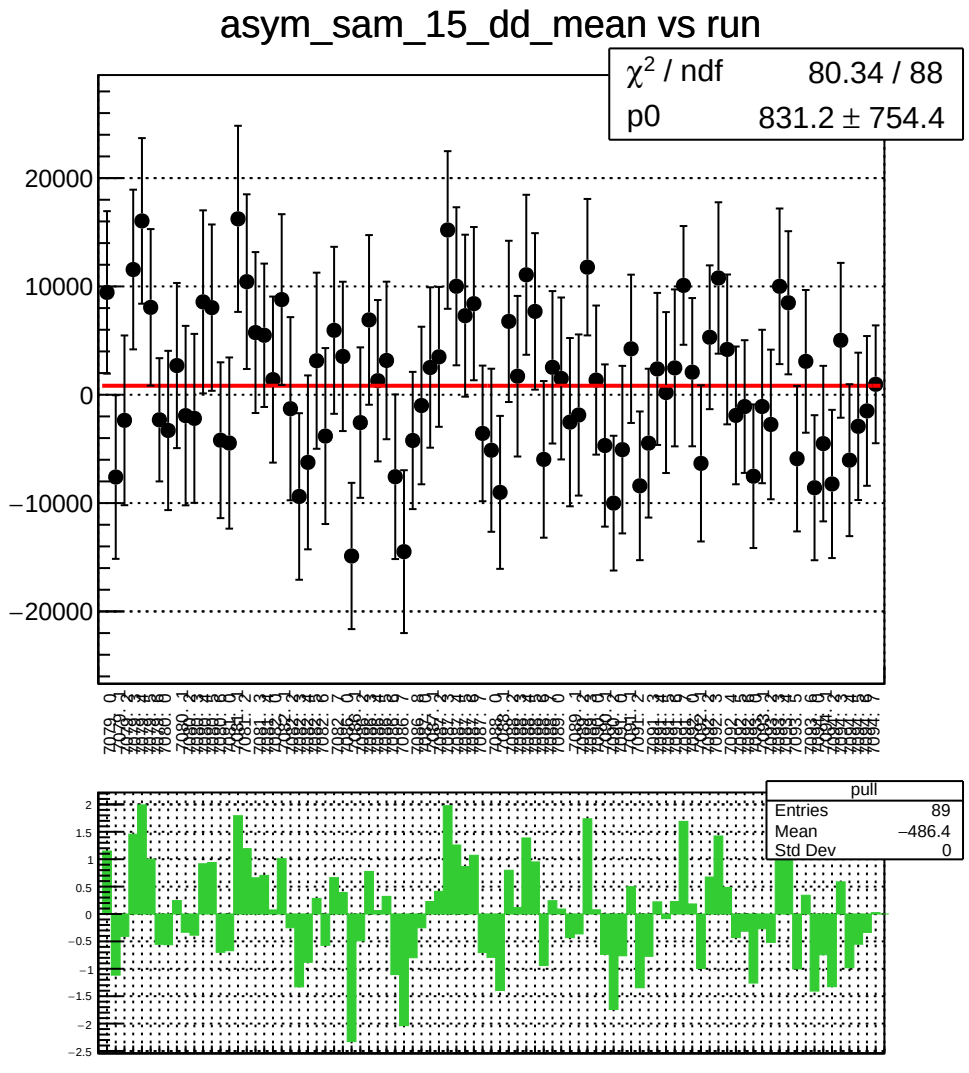

pull1D
Entries 89
Mean 0.004215
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

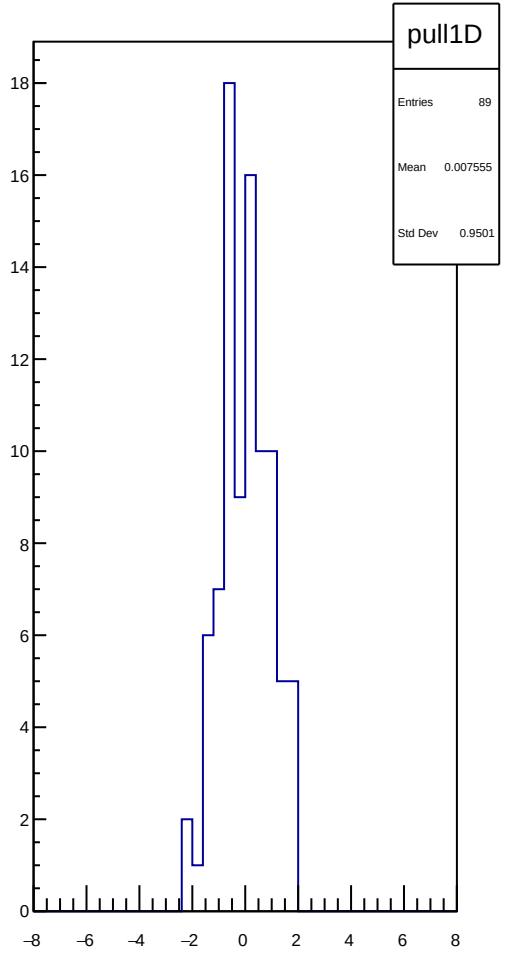

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 393.2 / 88
p0 113.8 ± 0.08765
118
116
114
112
110

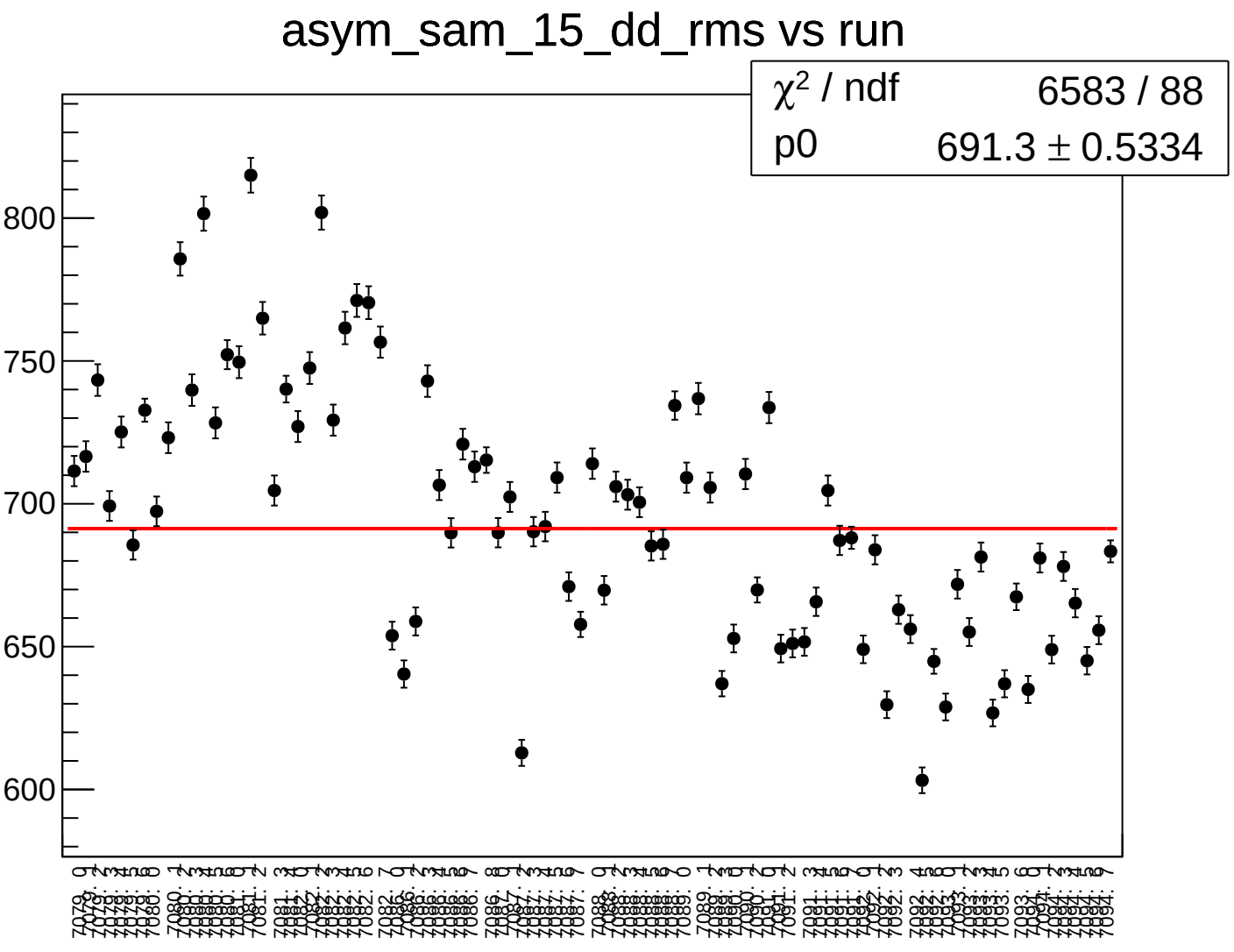

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.13 / 88
p0 −939.1± 766
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −614.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

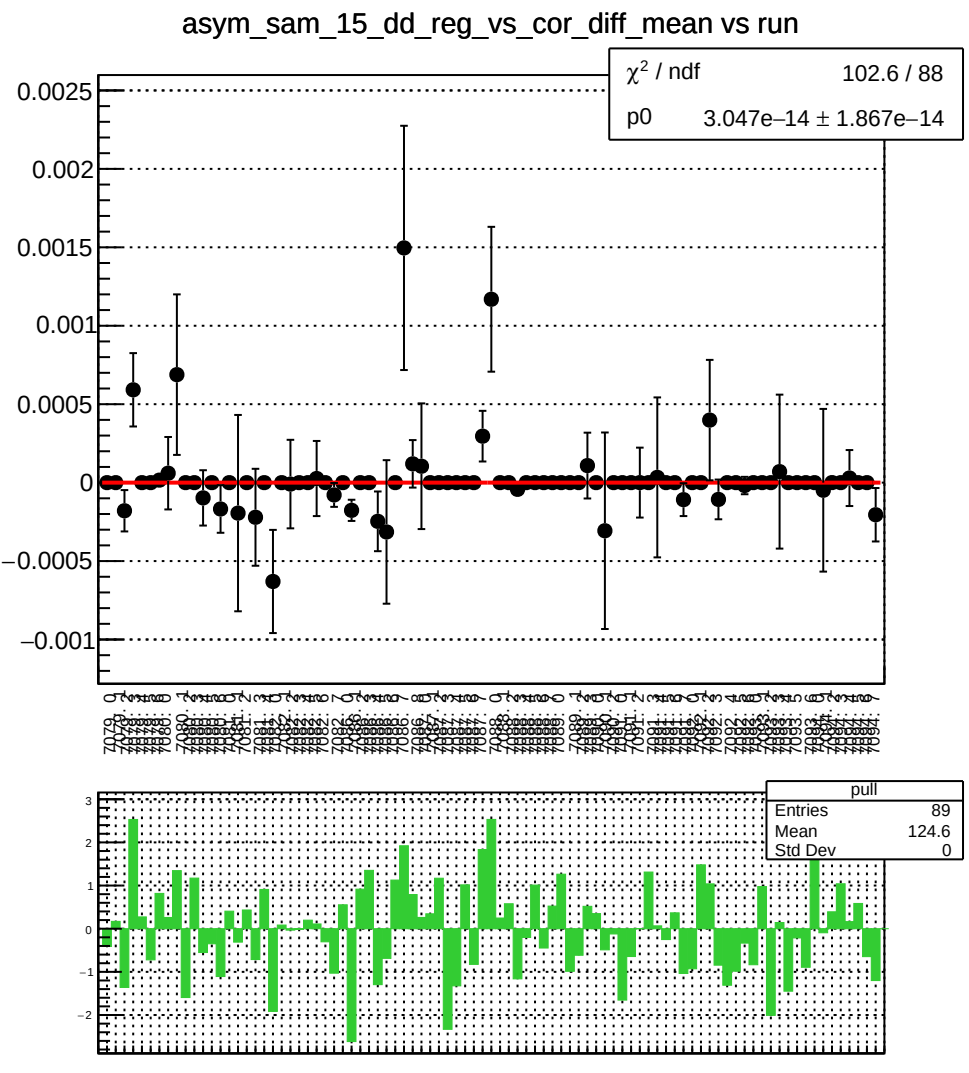

pull1D
Entries 89
Mean −0.005228
Std Dev 0.9249
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

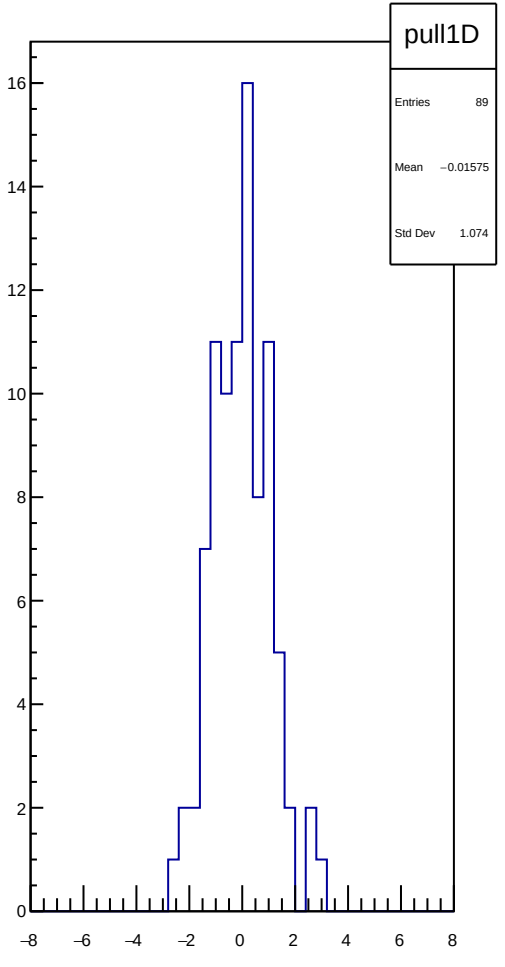

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 6155 / 88
p0 702.1 ± 0.5417
850
800
750
700
650
600

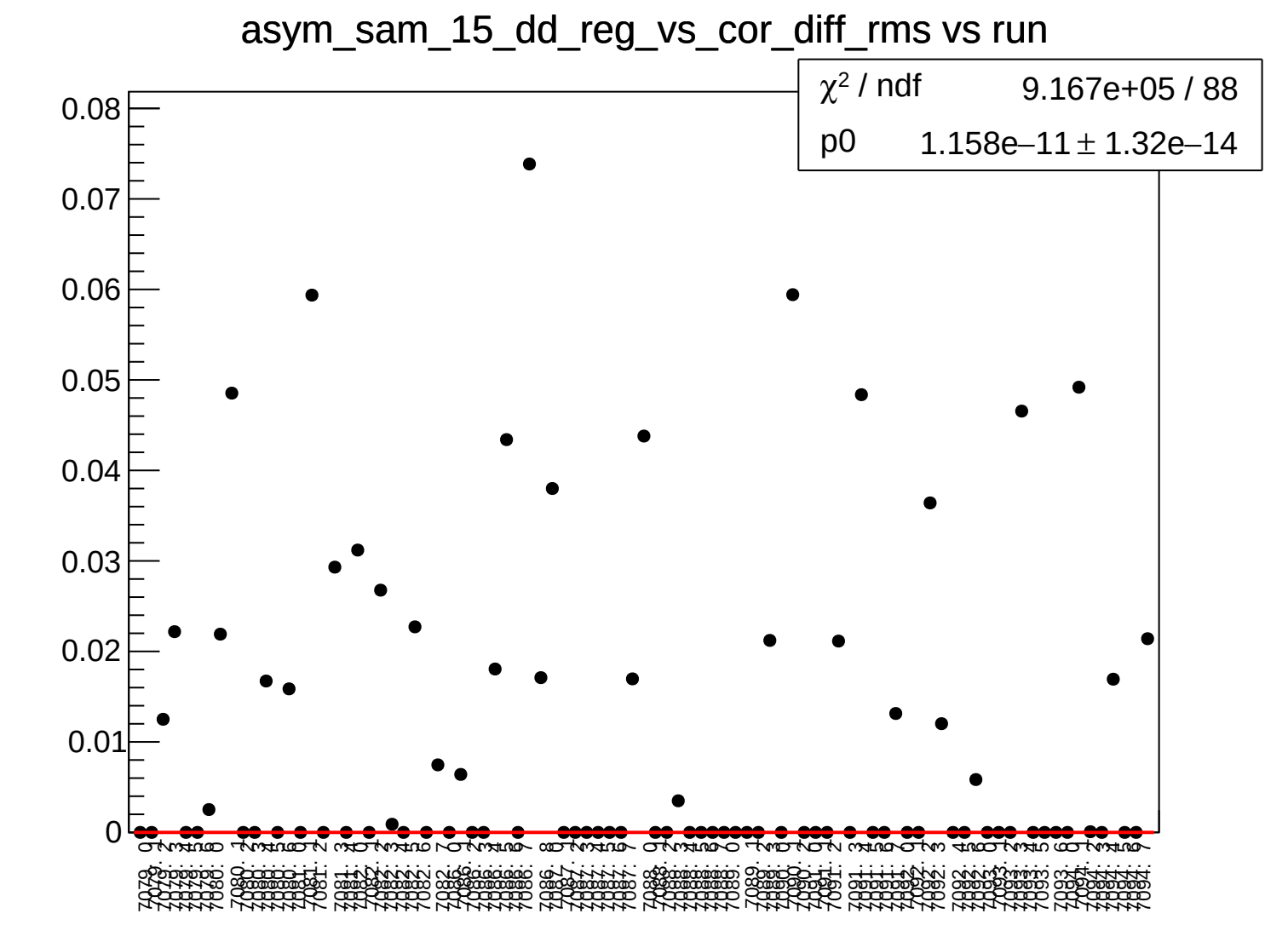

asym_sam_15_dd_mean vs run
χ² / ndf 80.34 / 88
p0 831.2 ± 754.4
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −486.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

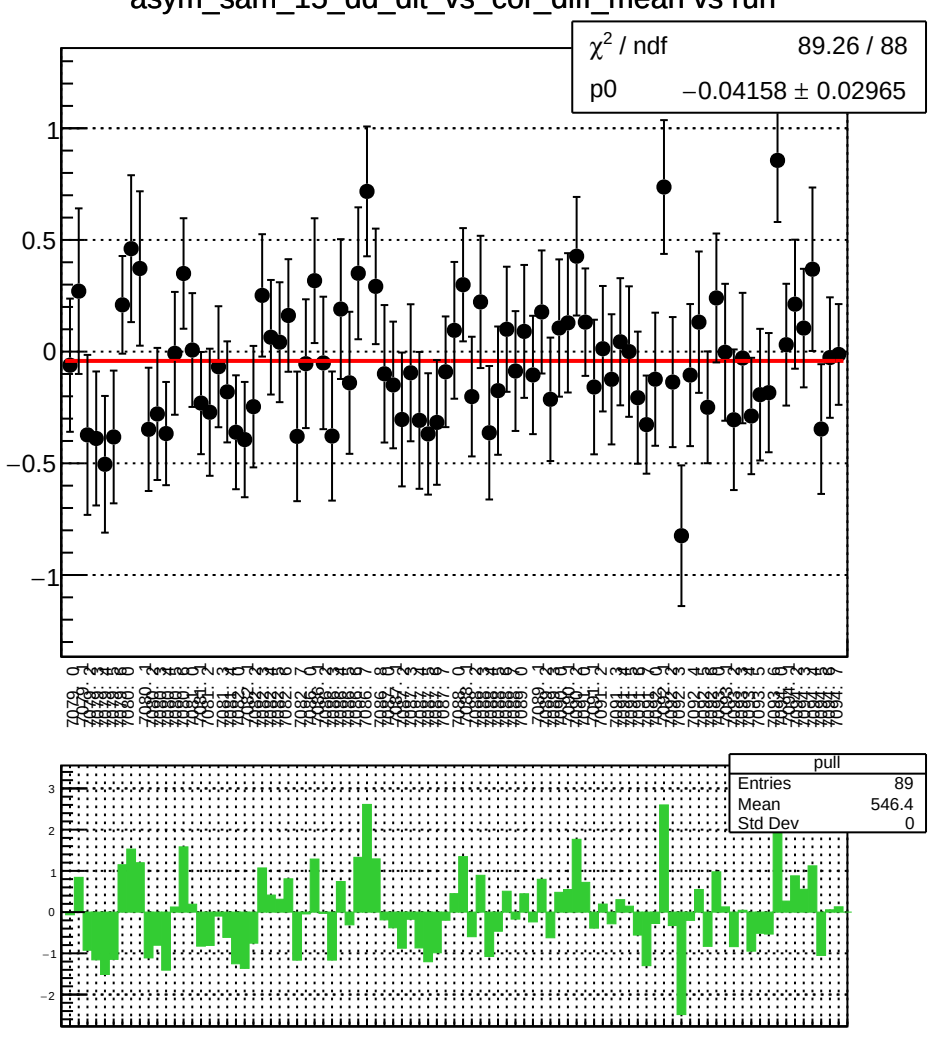

pull1D
Entries 89
Mean 0.007555
Std Dev 0.9501
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

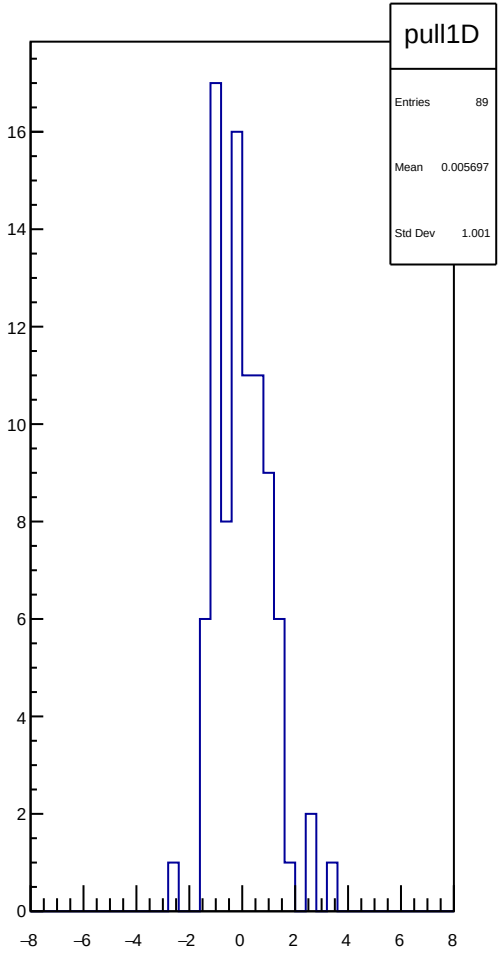

asym_sam_15_dd_rms vs run
χ² / ndf 6583 / 88
p0 691.3 ± 0.5334
800
750
700
650
600

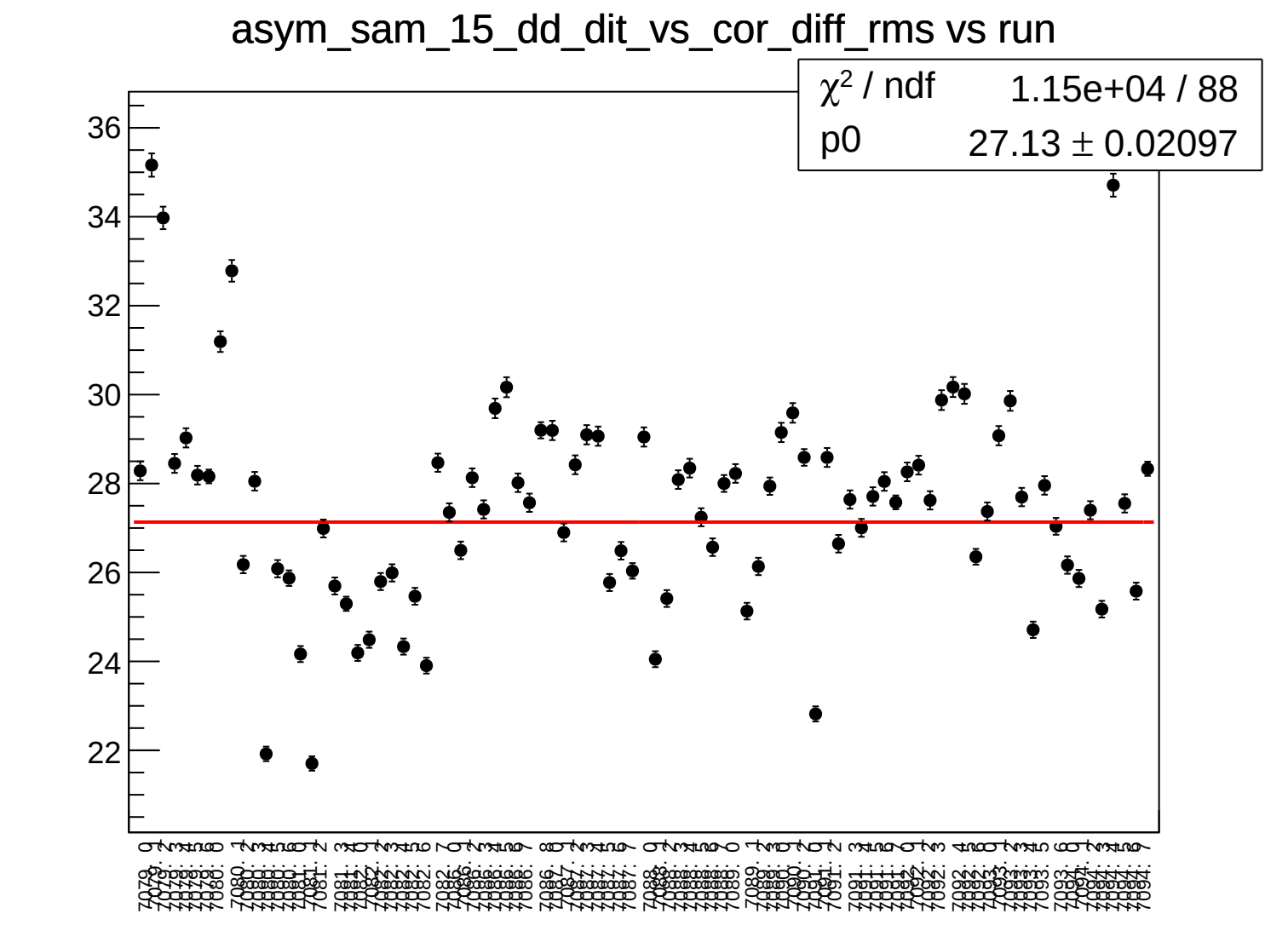

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 88
p0 3.047e−14 ± 1.867e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 124.6
Std Dev 0
3
2
1
0
−1
−2

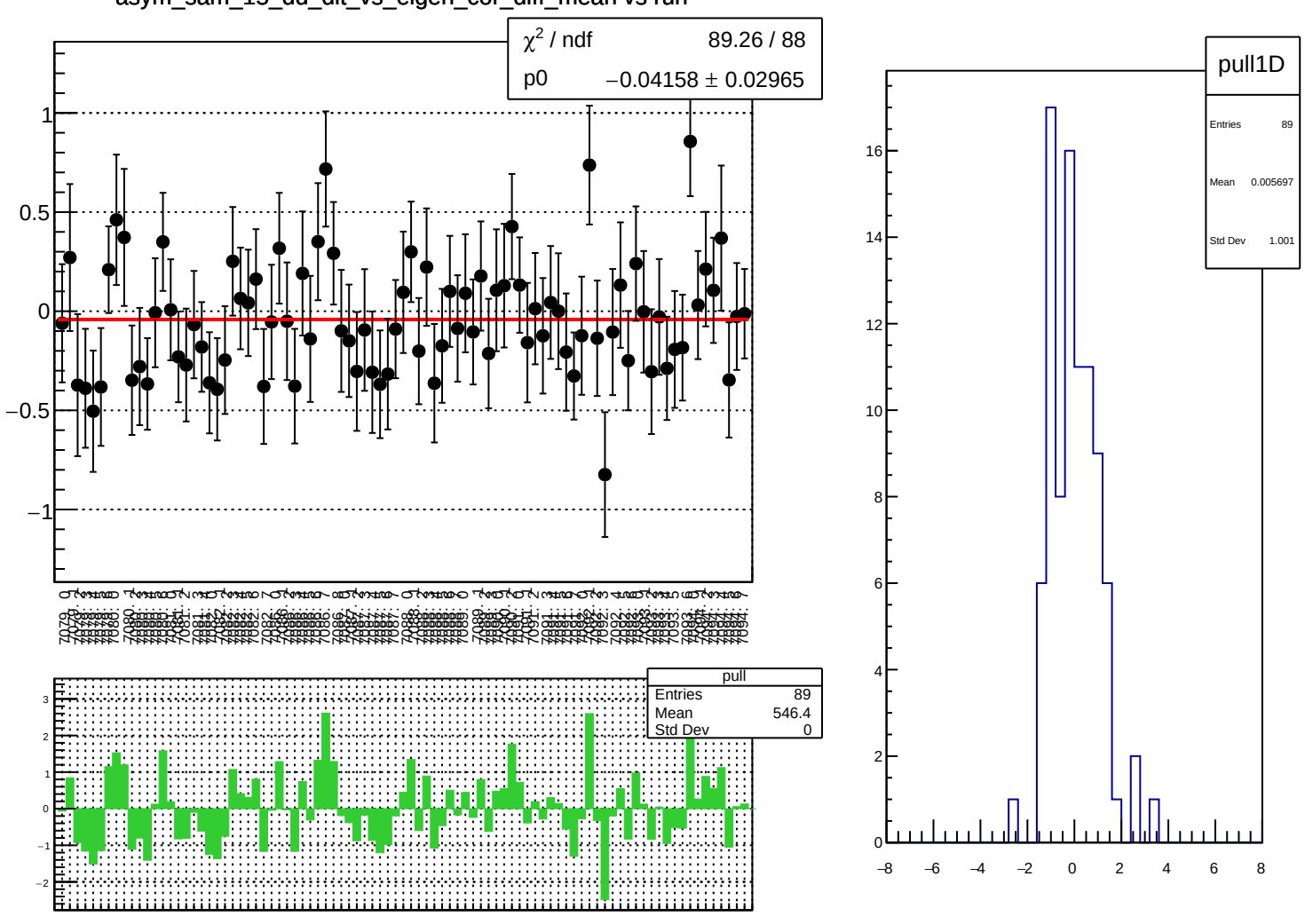

pull1D
Entries 89
Mean −0.01575
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

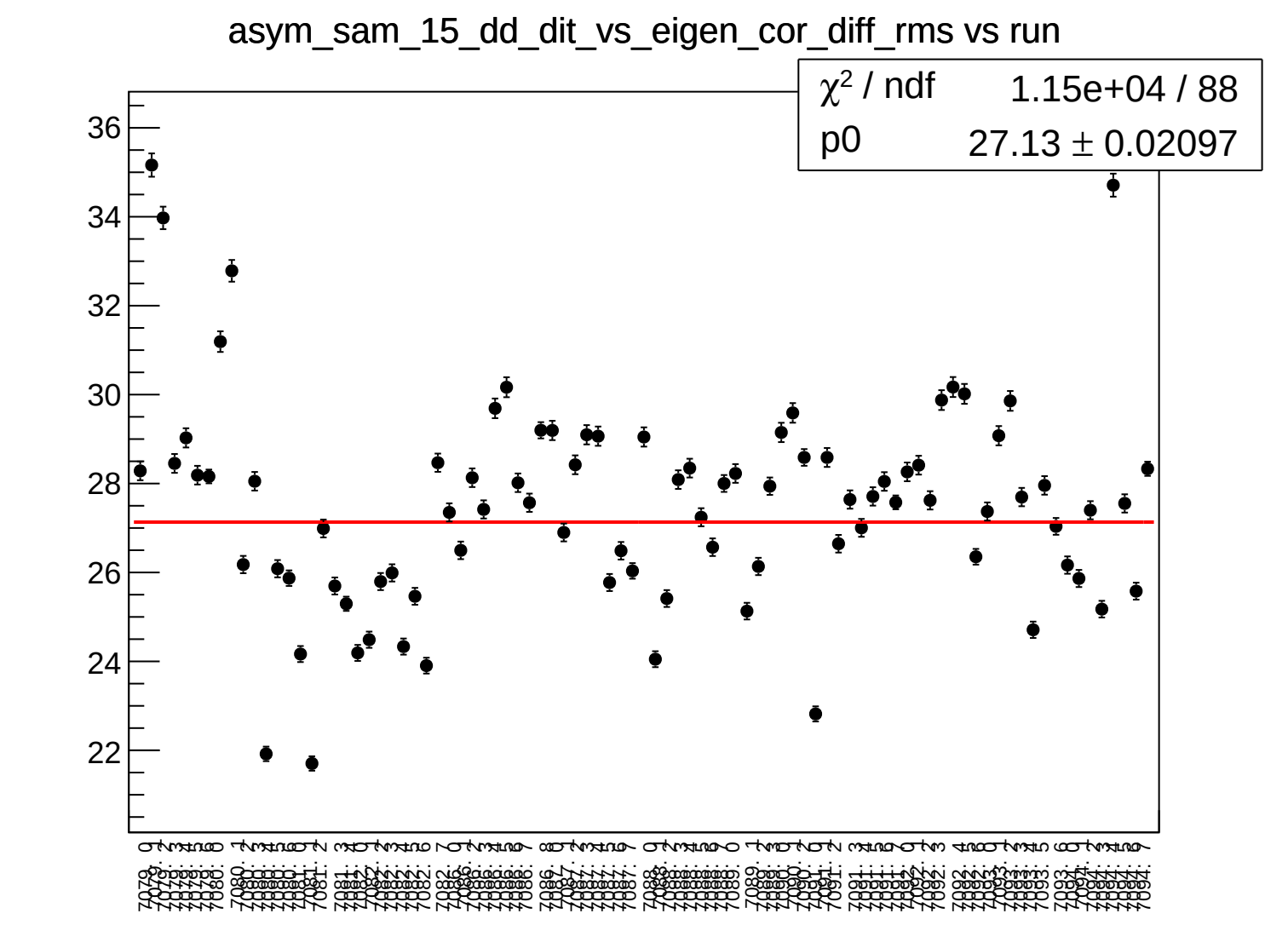

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.167e+05 / 88
p0 1.158e−11 ± 1.32e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

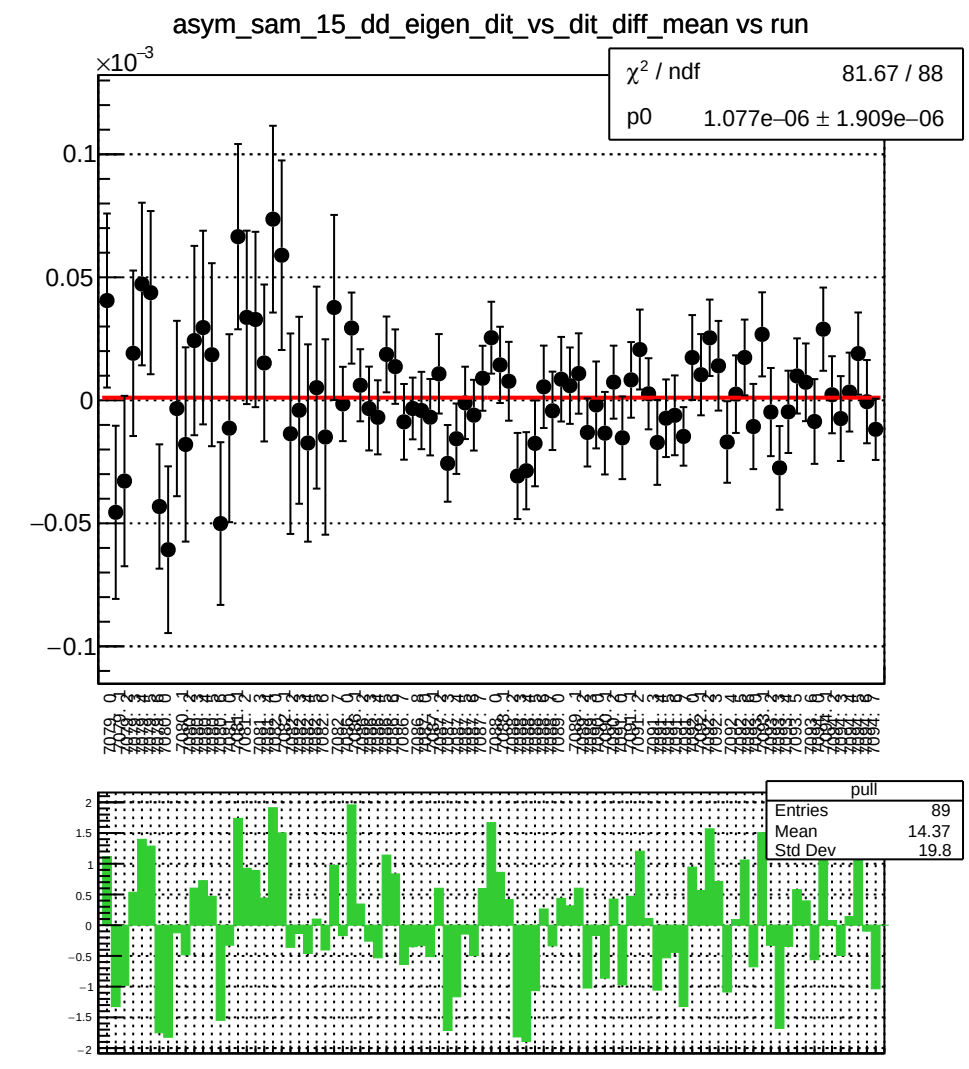

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.26 / 88
p0 −0.04158 ± 0.02965
pull
Entries 89
Mean 546.4
Std Dev 0

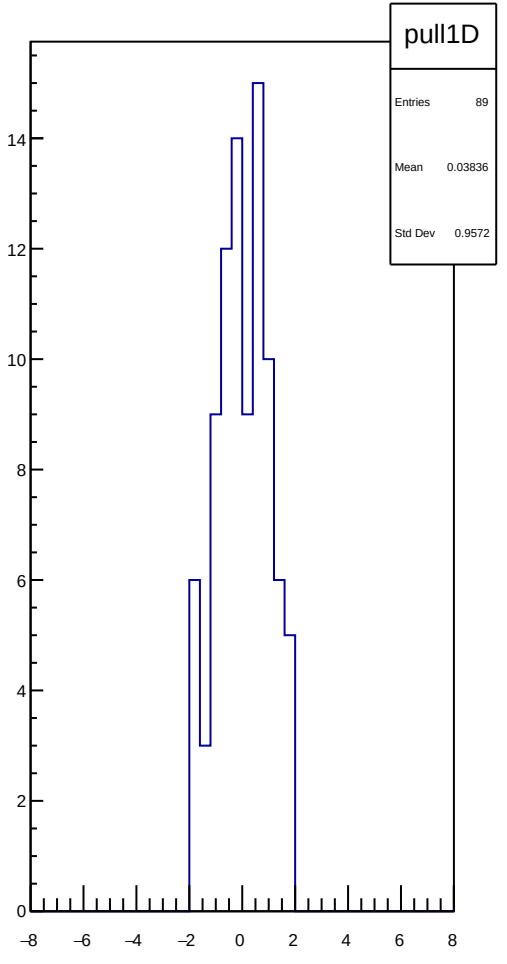

pull1D
Entries 89
Mean 0.005697
Std Dev 1.001

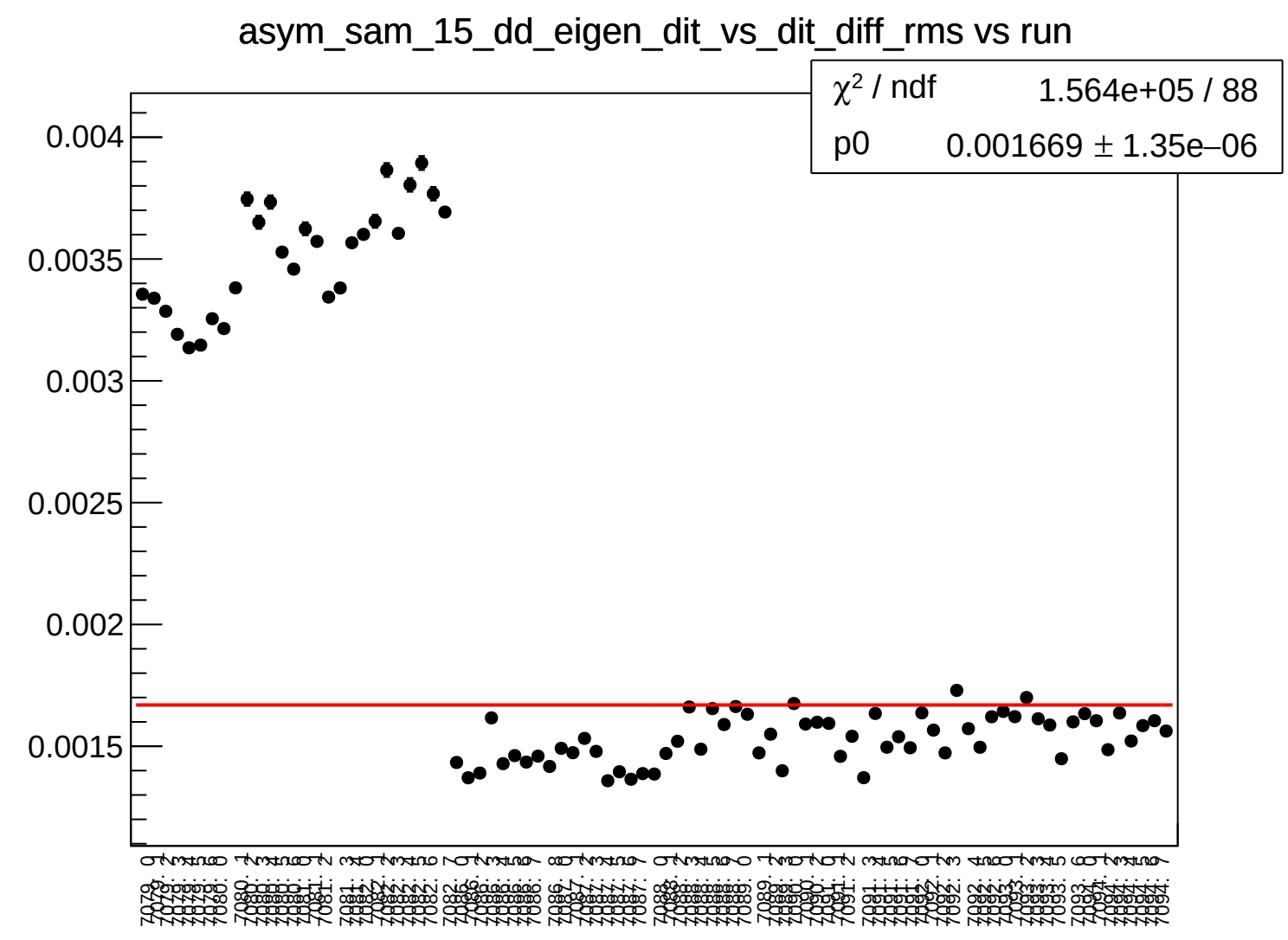

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.15e+04 / 88
p0 27.13 ± 0.02097
36
34
32
30
28
26
24
22

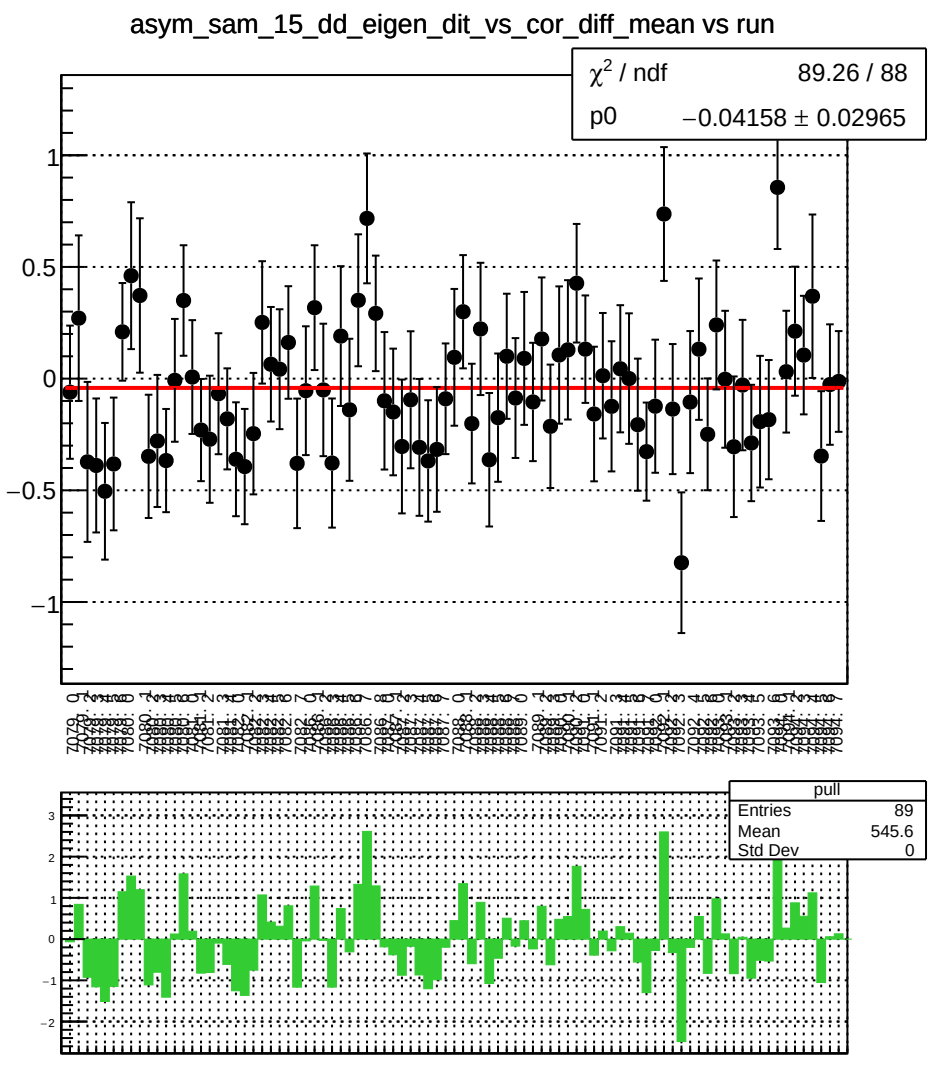

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.26 / 88
p0 −0.04158 ± 0.02965
pull
Entries 89
Mean 546.4
Std Dev 0
pull1D
Entries 89
Mean 0.005697
Std Dev 1.001

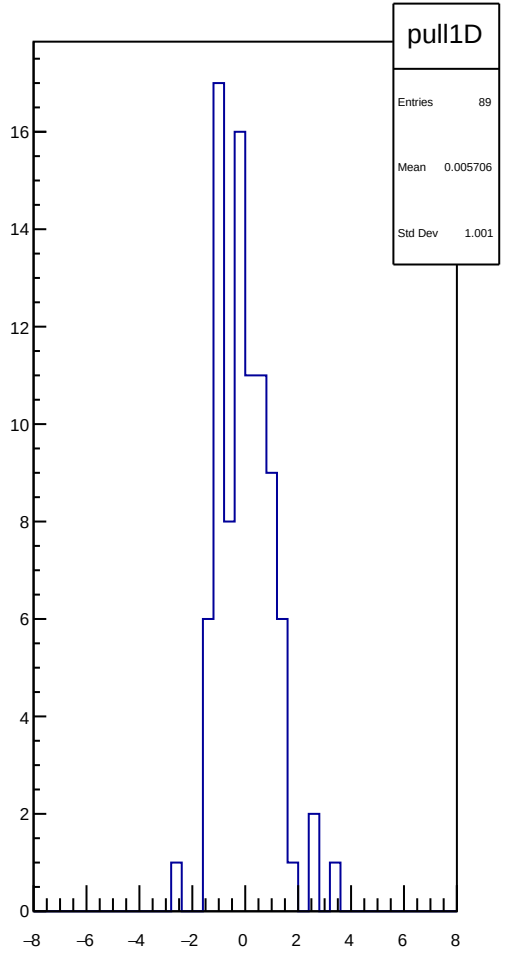

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.15e+04 / 88
p0 27.13 ± 0.02097
36
34
32
30
28
26
24
22

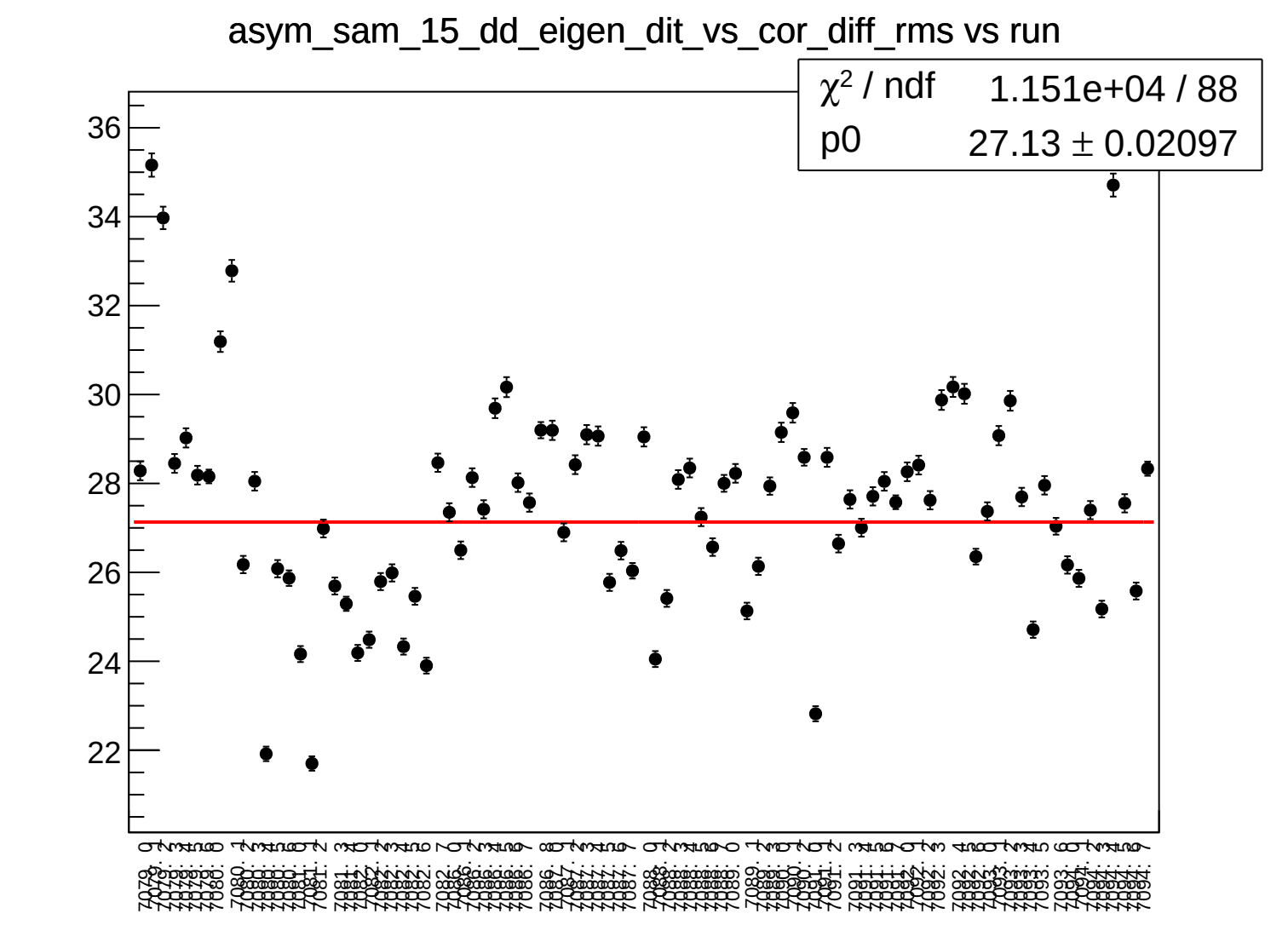

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.67 / 88
p0 1.077e−06 ± 1.909e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 14.37
Std Dev 19.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

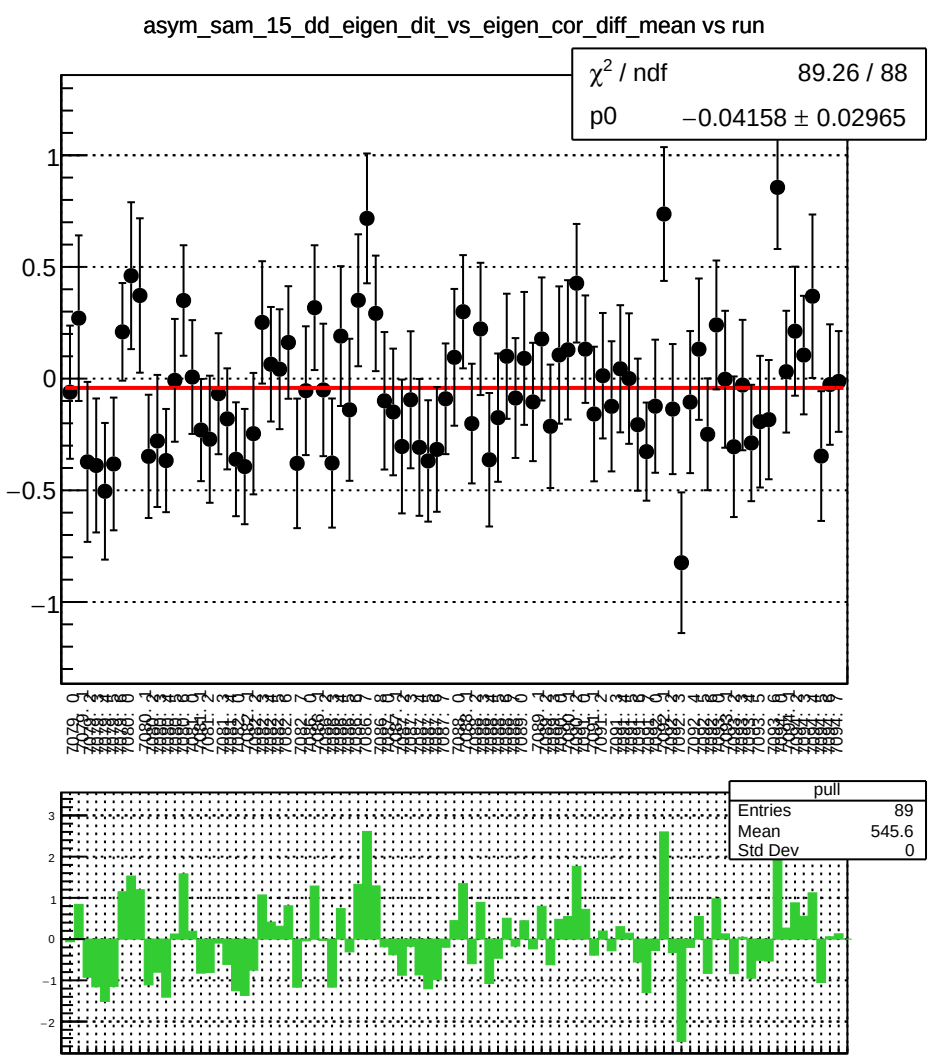

pull1D
Entries 89
Mean 0.03836
Std Dev 0.9572
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

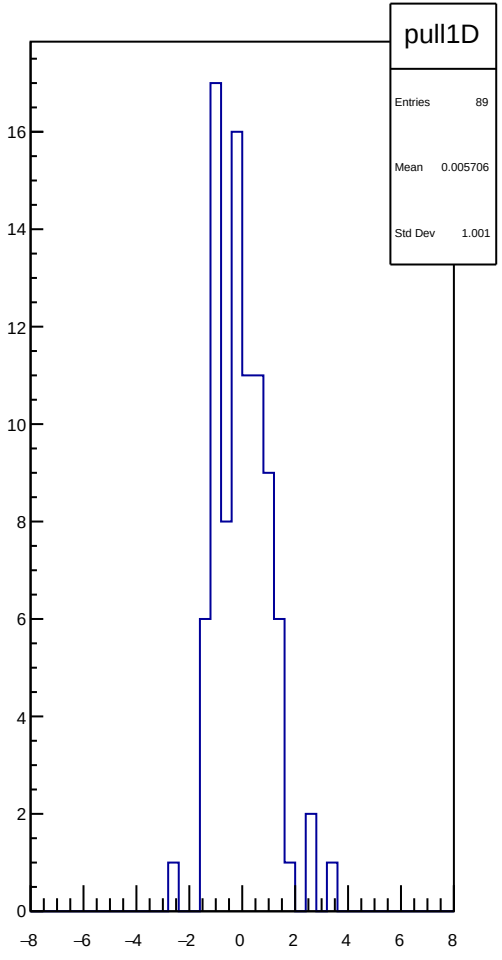

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.564e+05 / 88
p0 0.001669 ± 1.35e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

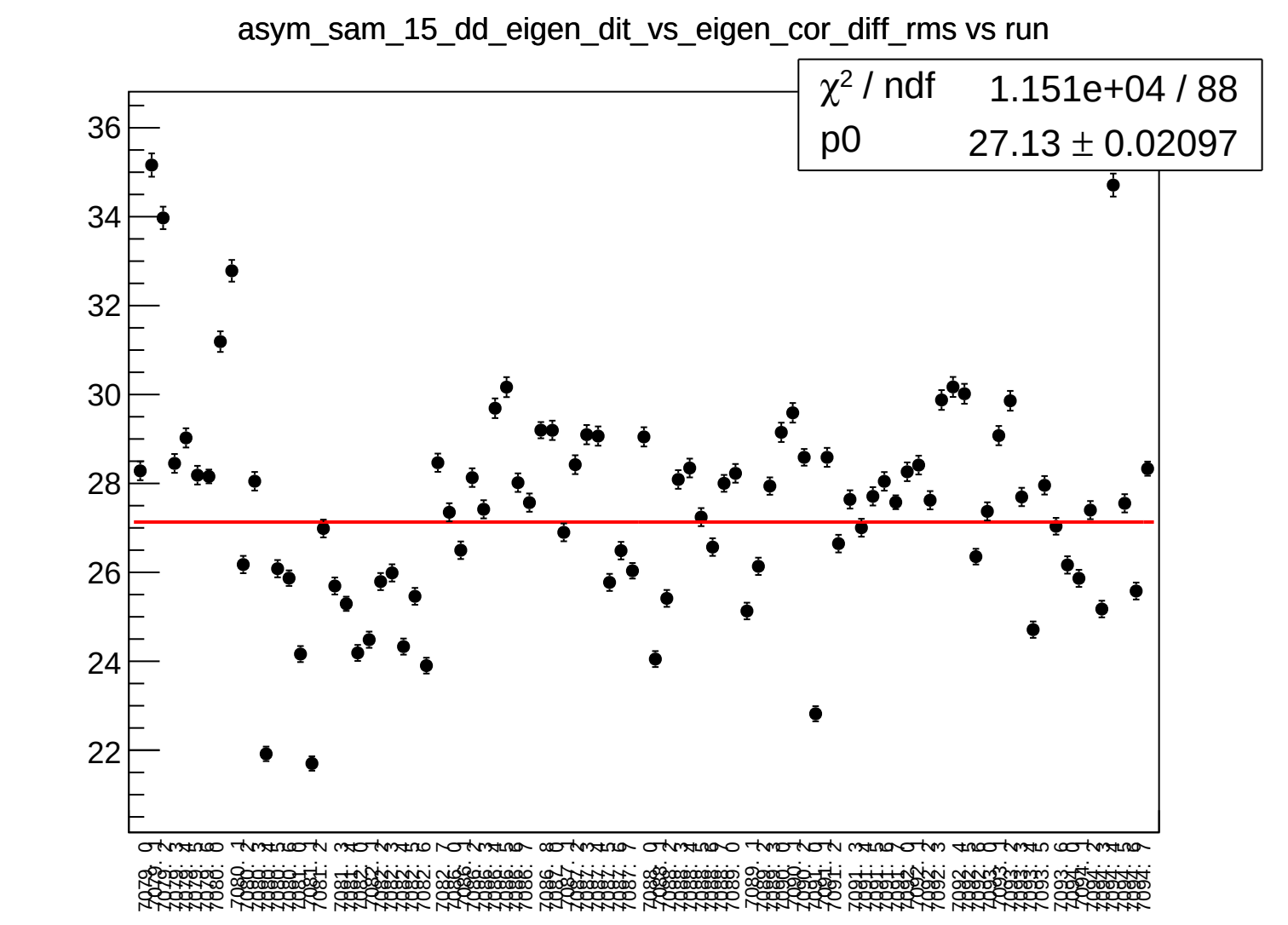

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.26 / 88
p0 −0.04158 ± 0.02965
pull
Entries 89
Mean 545.6
Std Dev 0

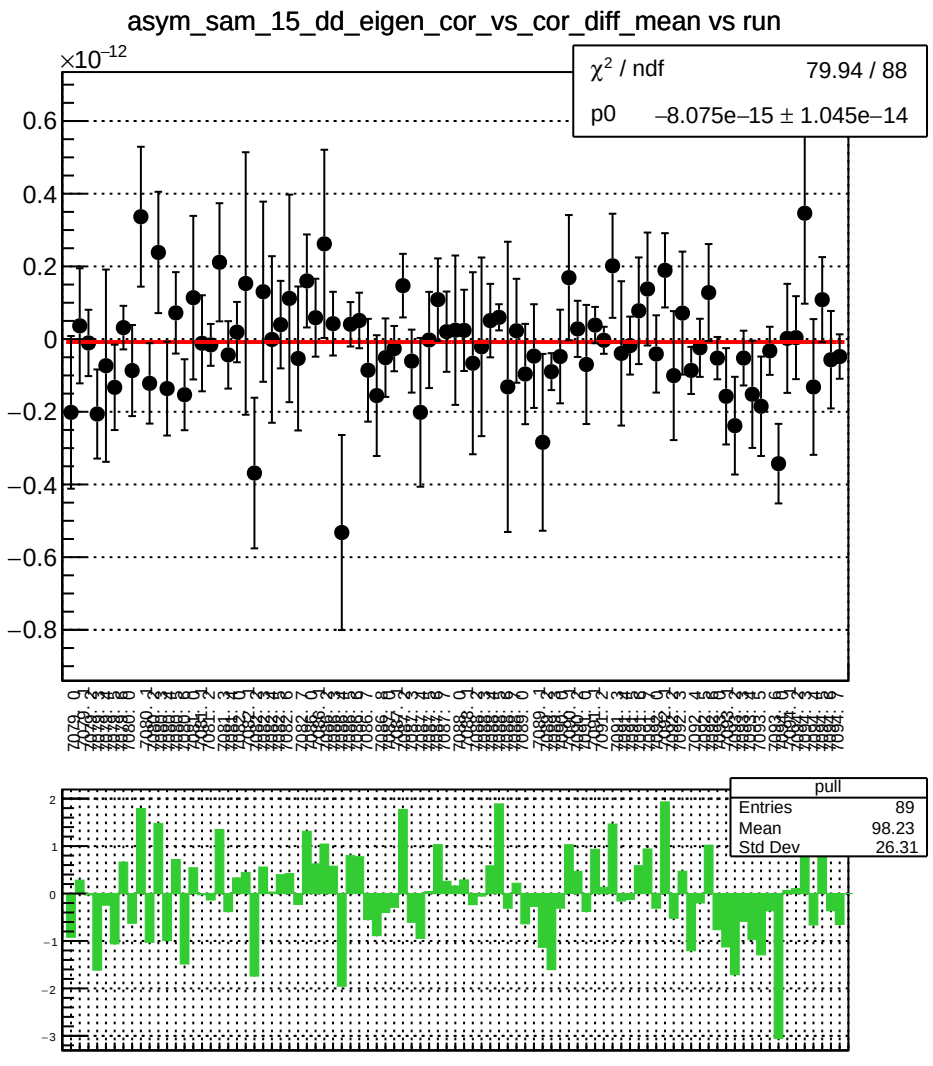

pull1D
Entries 89
Mean 0.005706
Std Dev 1.001

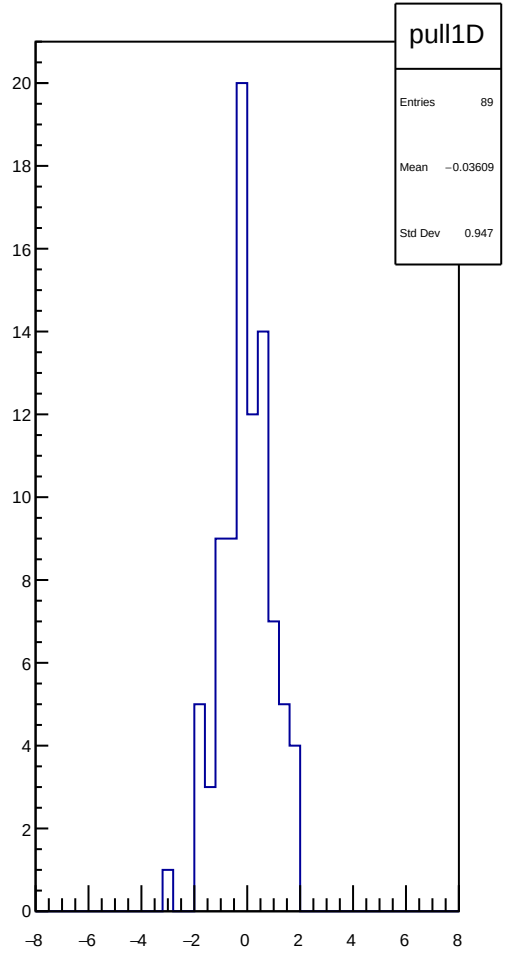

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.151e+04 / 88
p0 27.13 ± 0.02097
36
34
32
30
28
26
24
22

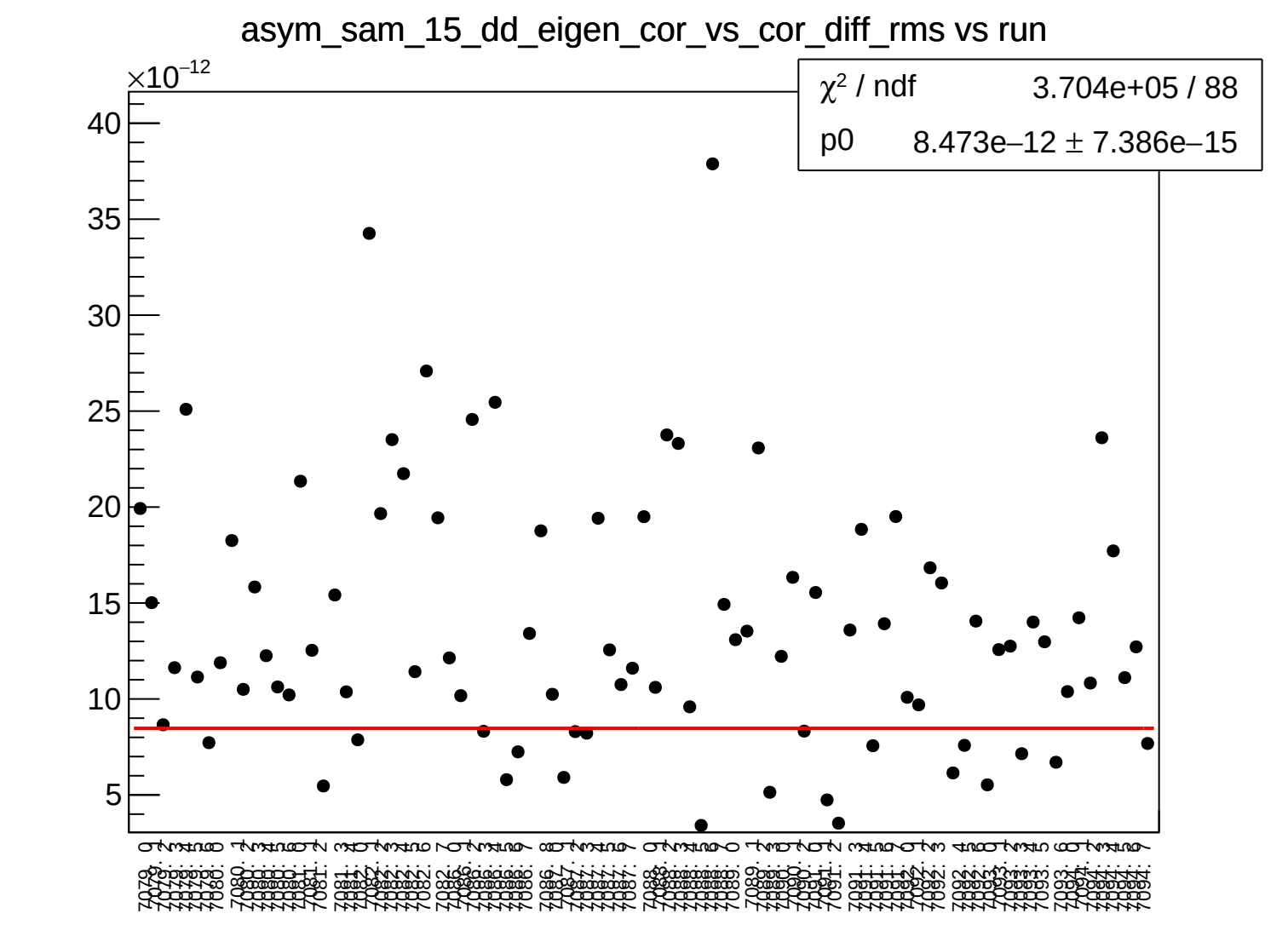

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.26 / 88
p0 −0.04158 ± 0.02965
pull
Entries 89
Mean 545.6
Std Dev 0

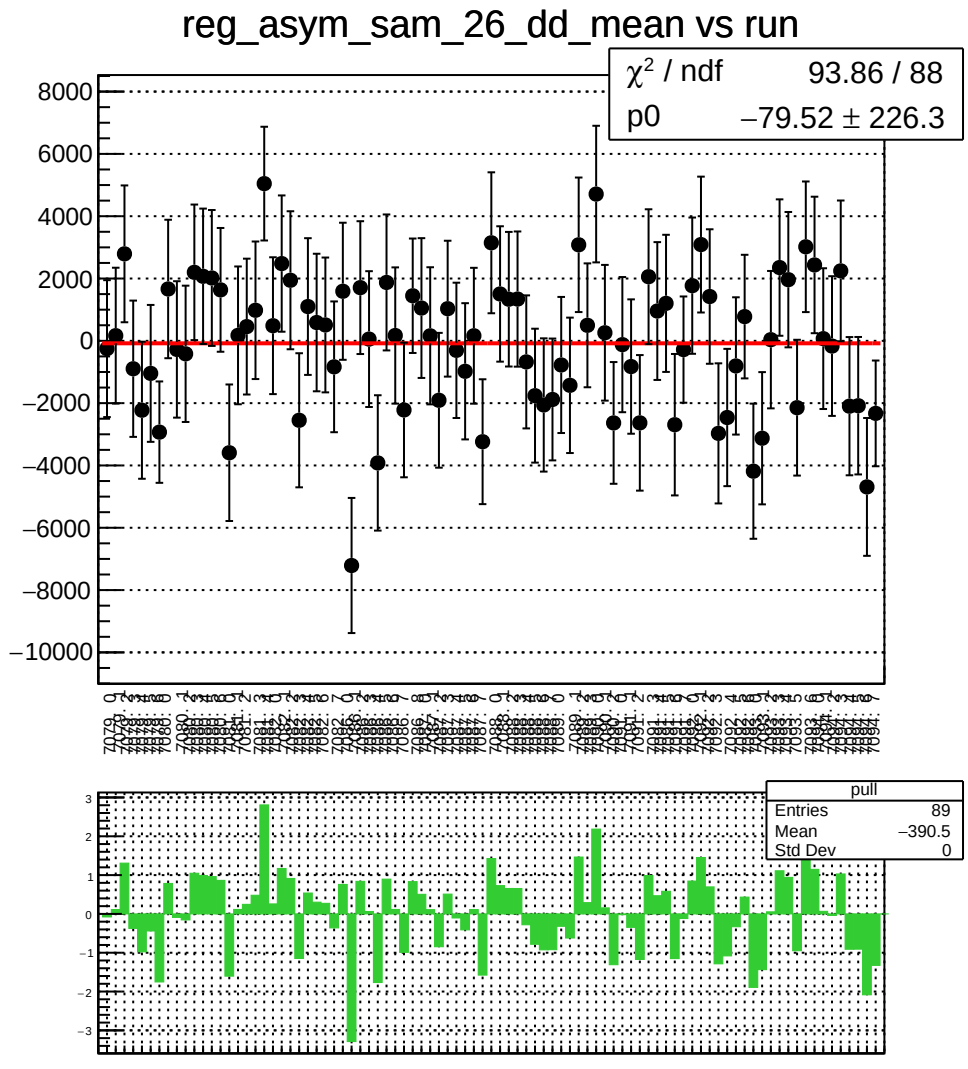

pull1D
Entries 89
Mean 0.005706
Std Dev 1.001

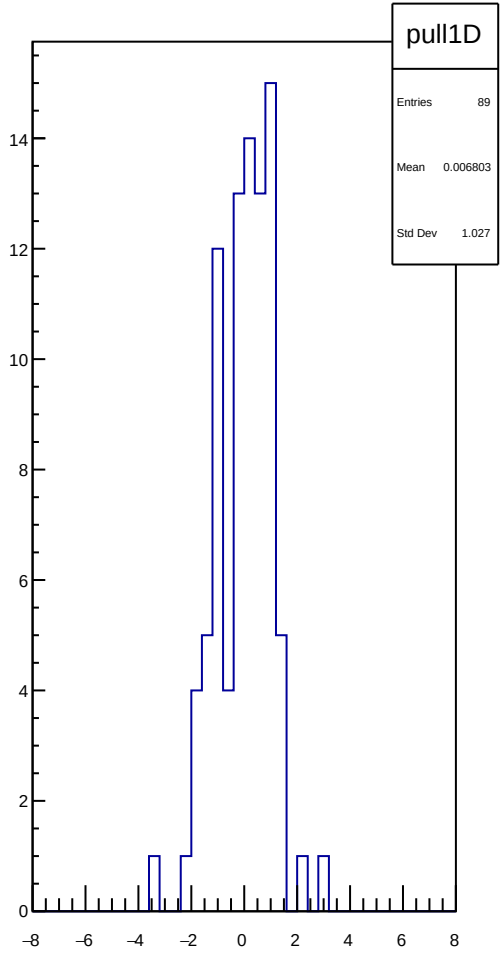

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.151e+04 / 88
p0 27.13 ± 0.02097
36
34
32
30
28
26
24
22

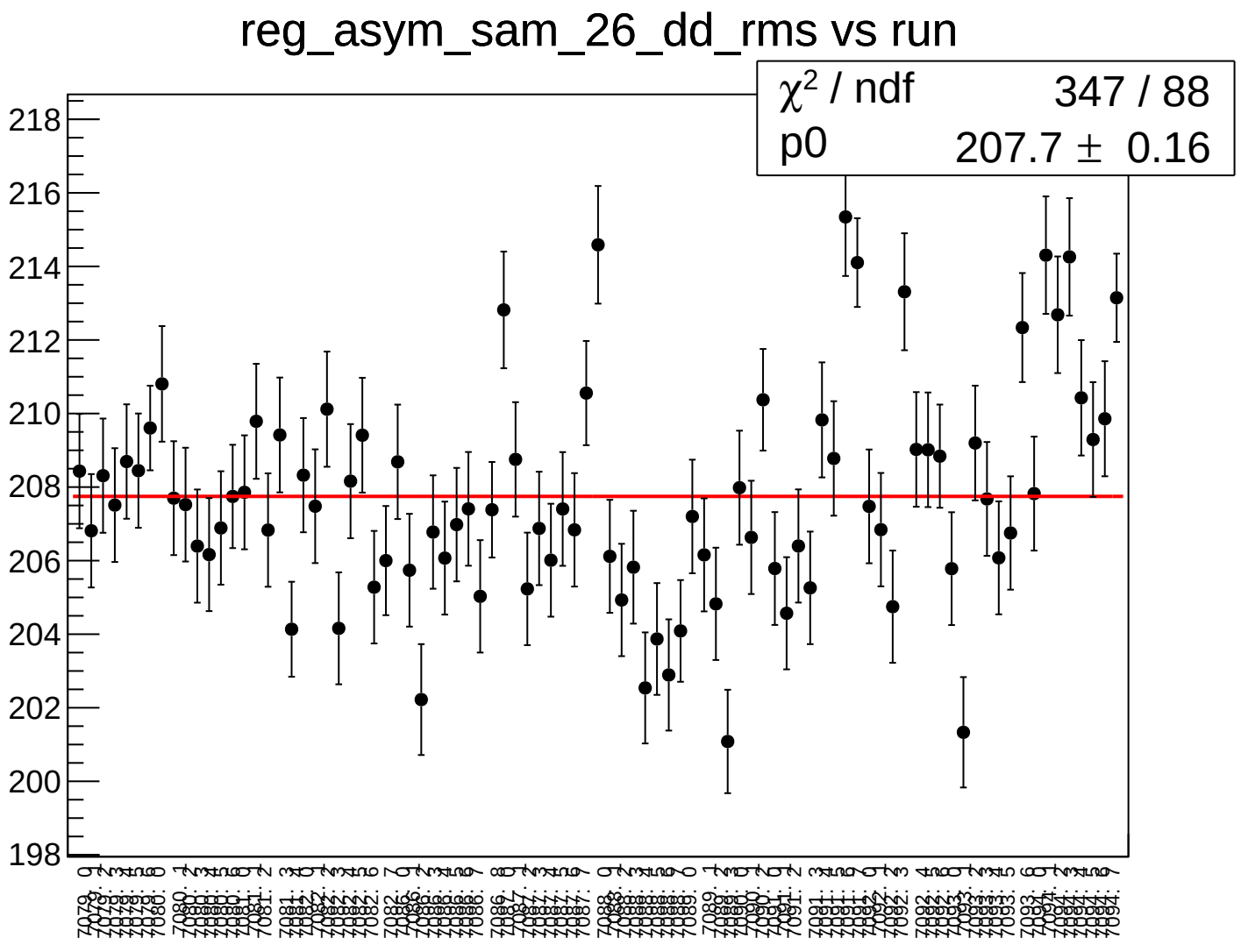

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 79.94 / 88
p0 −8.075e−15 ± 1.045e−14
pull
Entries 89
Mean 98.23
Std Dev 26.31

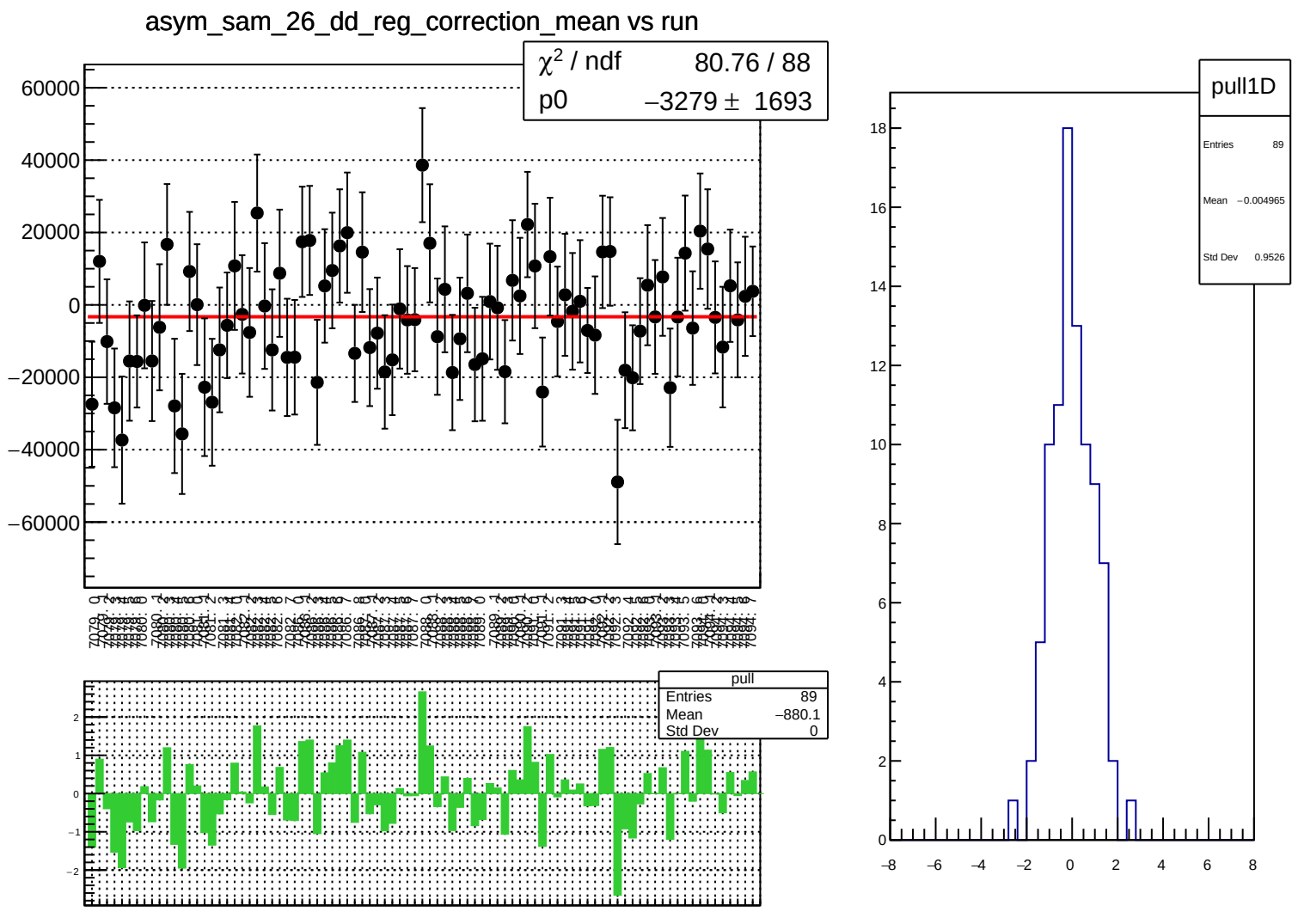

pull1D
Entries 89
Mean −0.03609
Std Dev 0.947

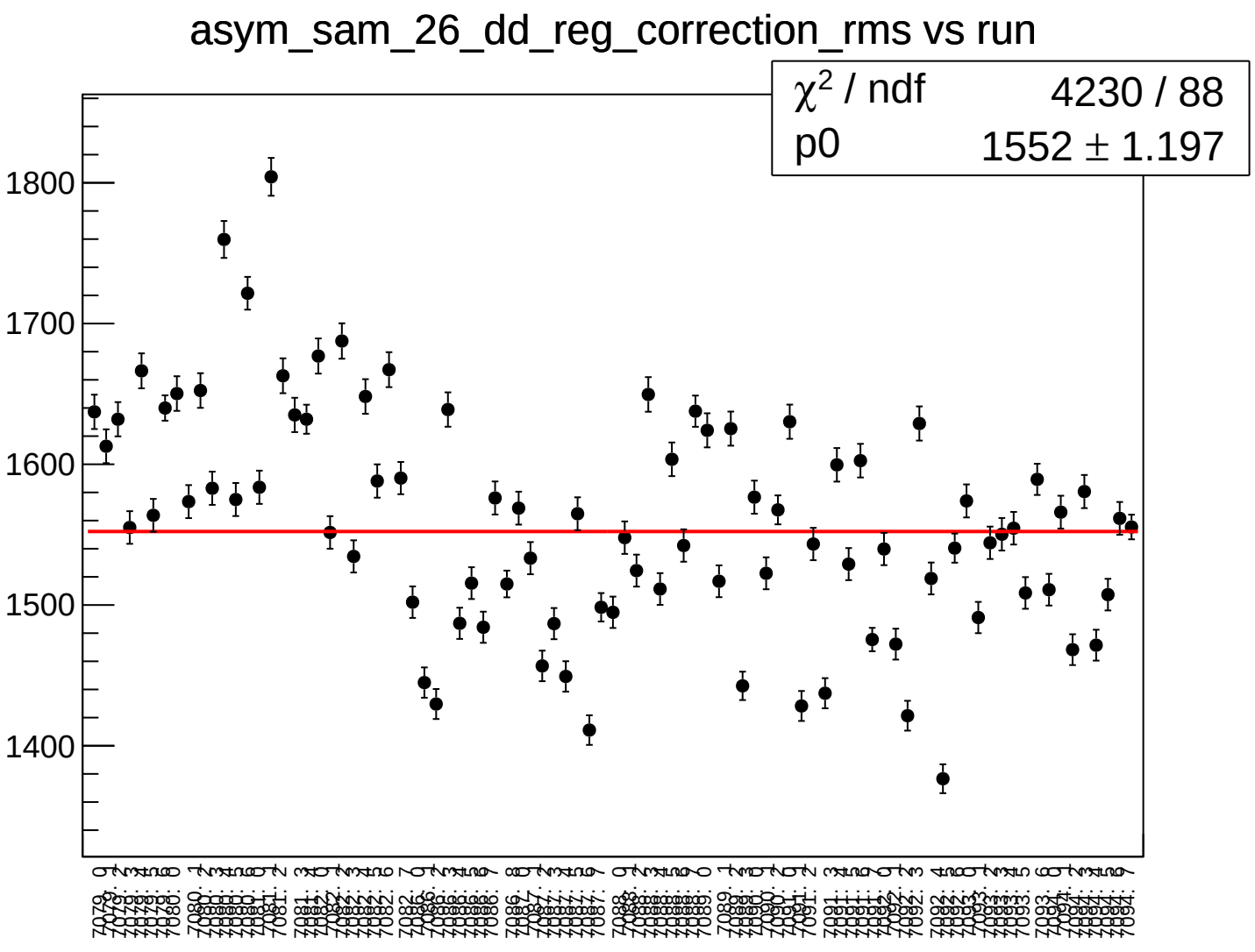

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.704e+05 / 88
p0 8.473e−12 ± 7.386e−15
40
35
30
25
20
15
10
5

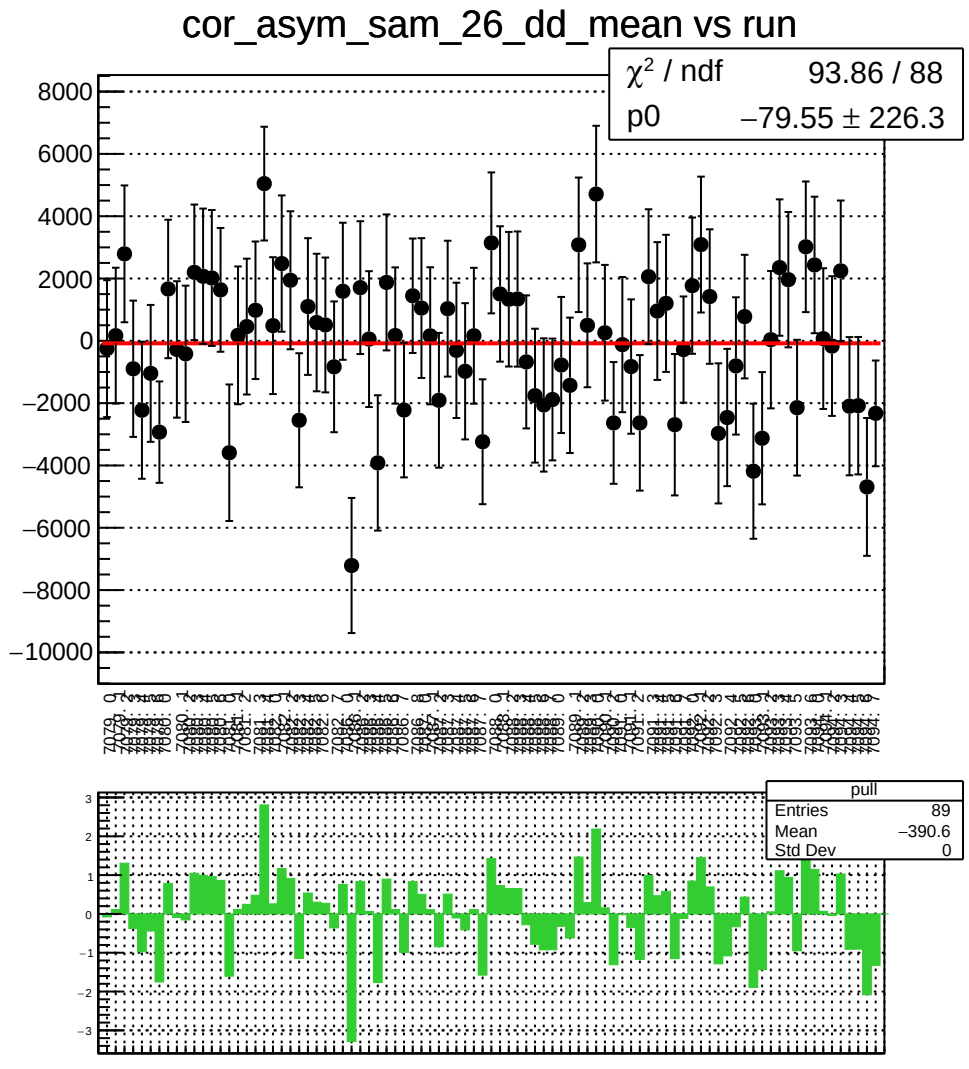

reg_asym_sam_26_dd_mean vs run
χ² / ndf 93.86 / 88
p0 −79.52 ± 226.3
pull
Entries 89
Mean −390.5
Std Dev 0

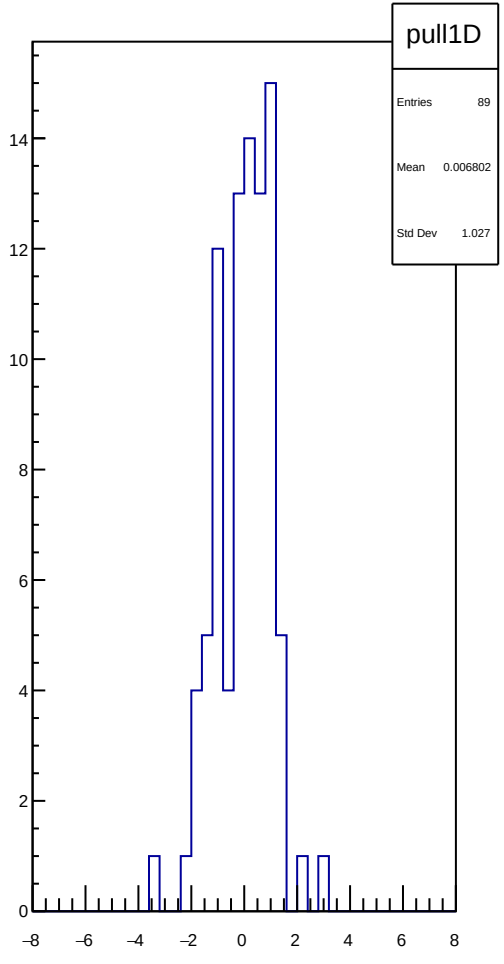

pull1D
Entries 89
Mean 0.006803
Std Dev 1.027

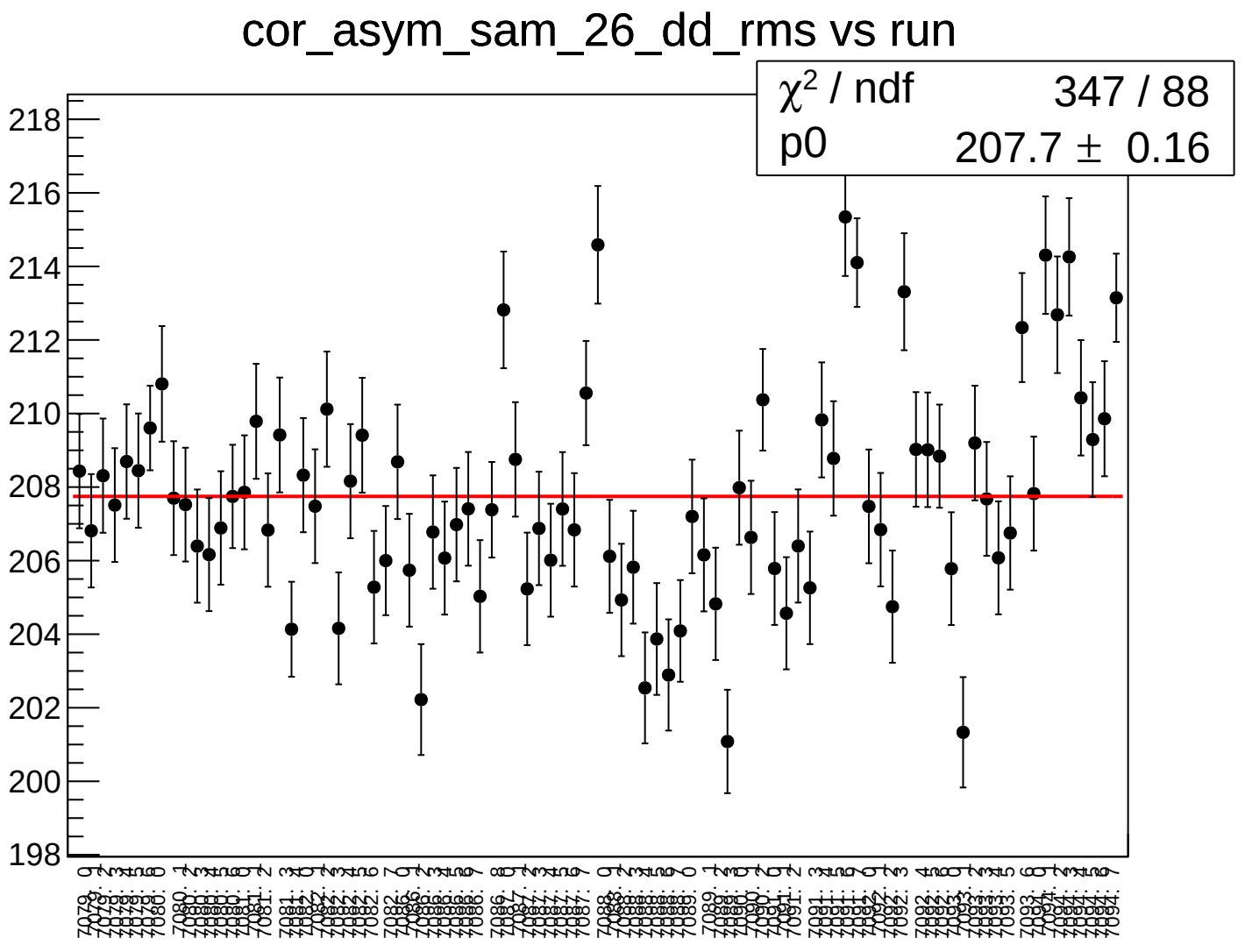

reg_asym_sam_26_dd_rms vs run
χ² / ndf 347 / 88
p0 207.7 ± 0.16
218
216
214
212
210
208
206
204
202
200
198

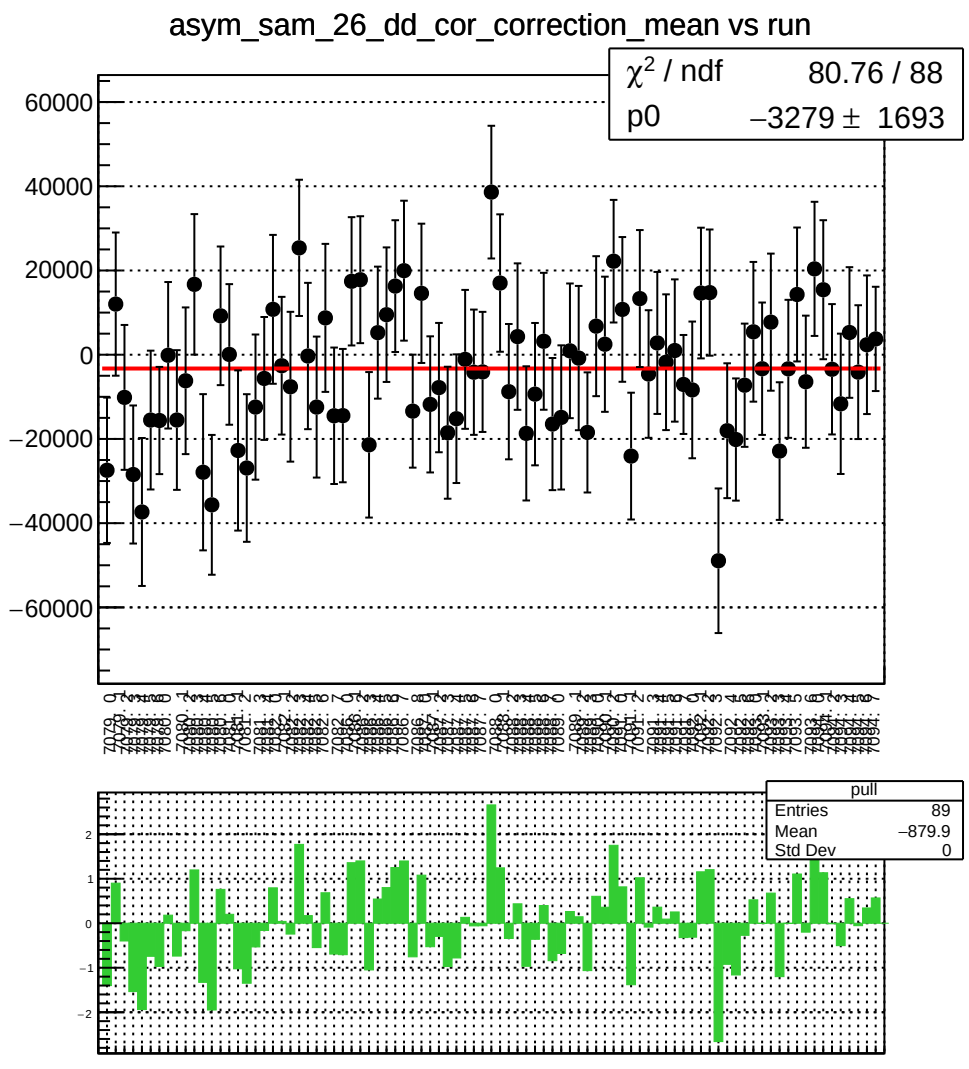

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 80.76 / 88
p0 −3279 ± 1693
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −880.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004965
Std Dev 0.9526
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

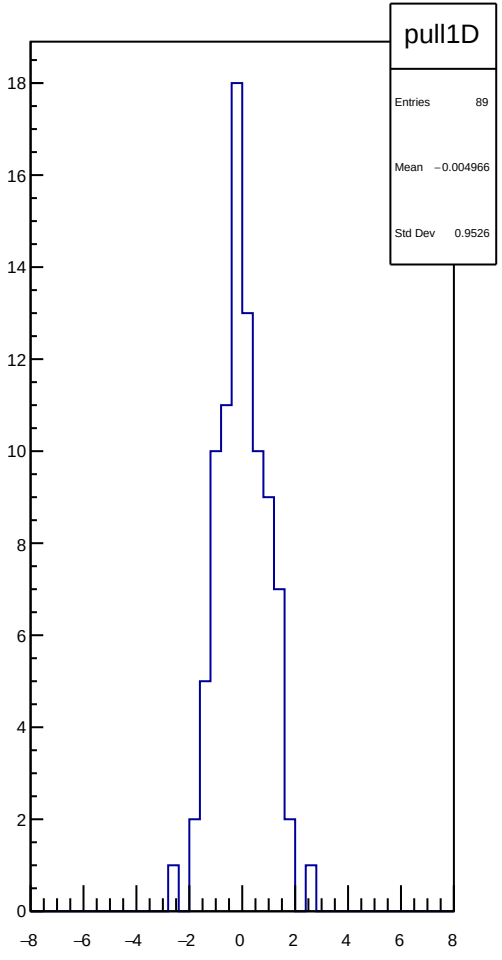

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 4230 / 88
p0 1552 ± 1.197
1800
1700
1600
1500
1400

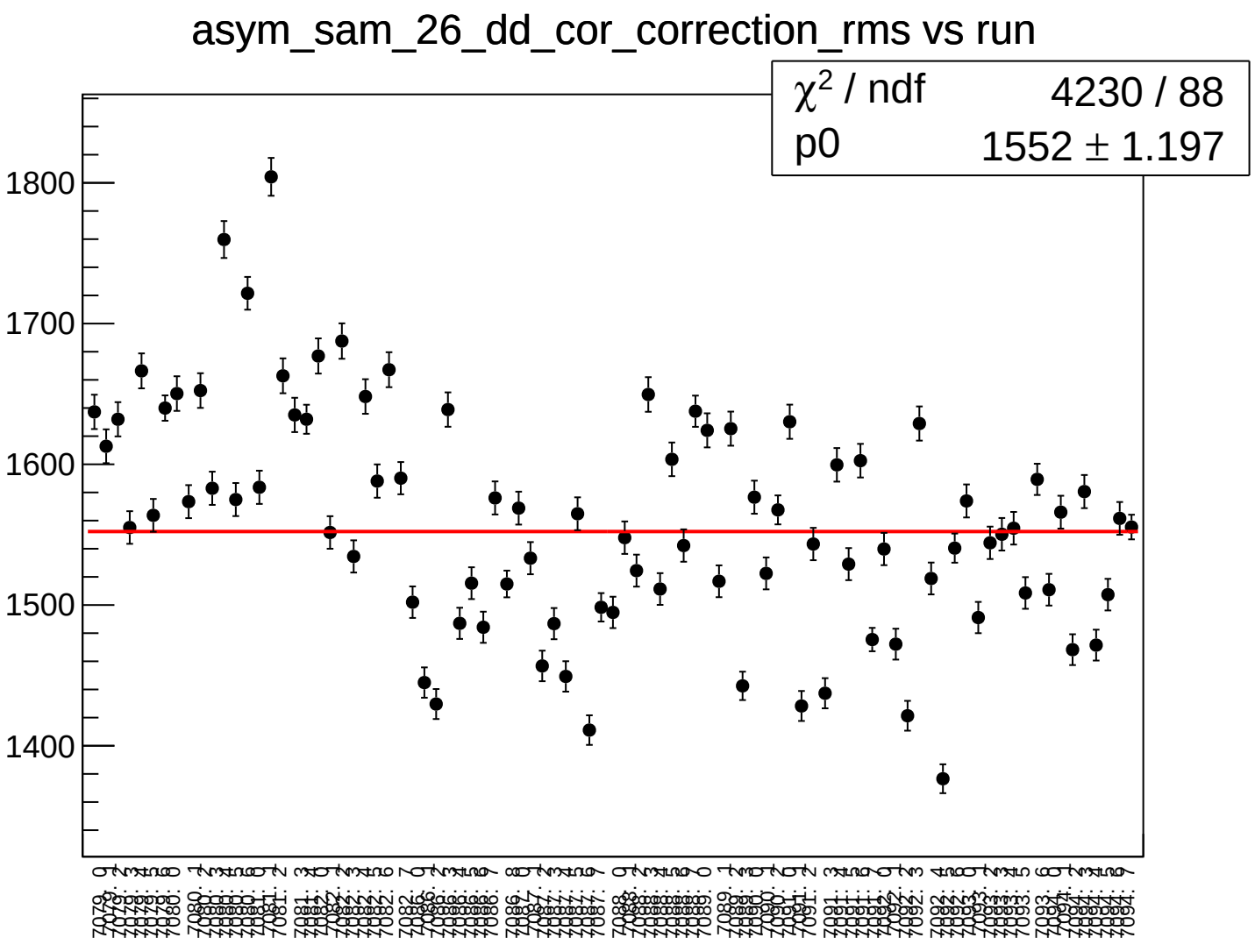

cor_asym_sam_26_dd_mean vs run
χ² / ndf 93.86 / 88
p0 −79.55 ± 226.3
pull
Entries 89
Mean −390.6
Std Dev 0

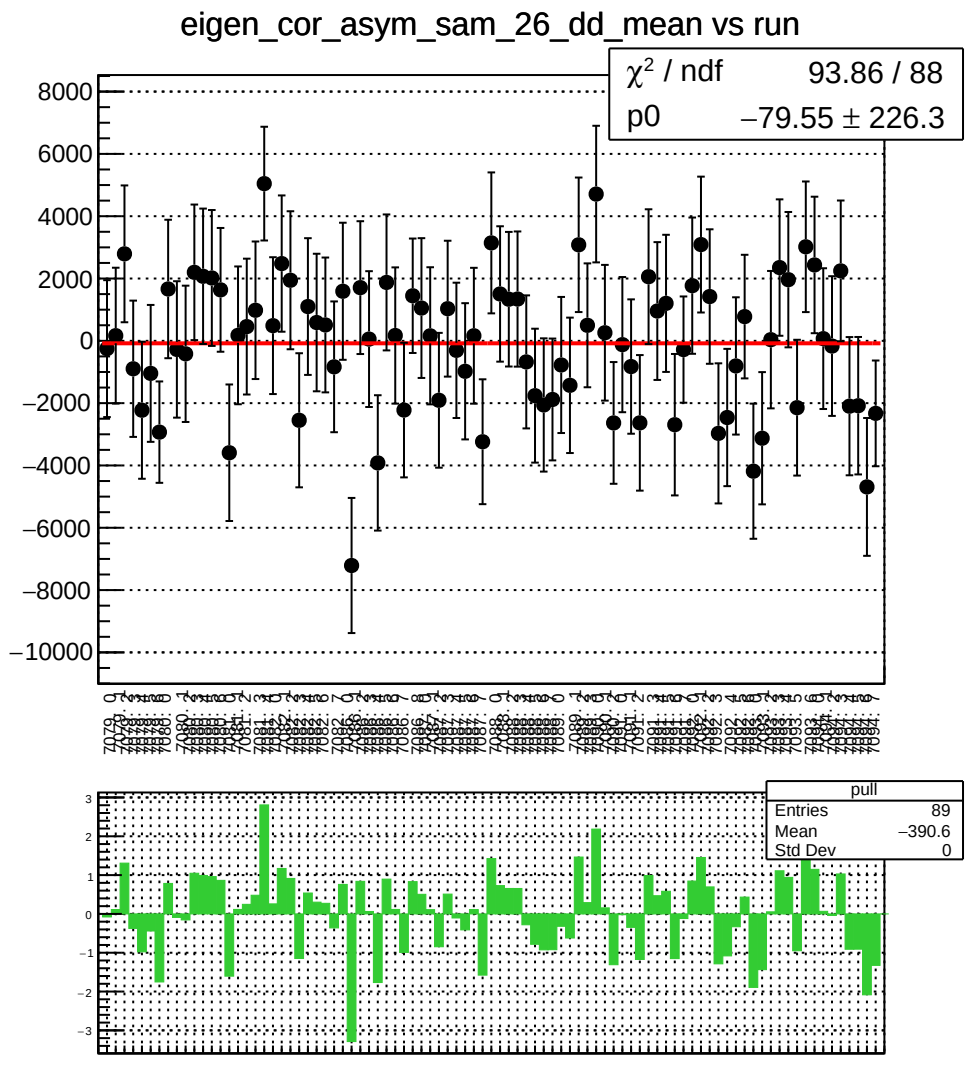

pull1D
Entries 89
Mean 0.006802
Std Dev 1.027

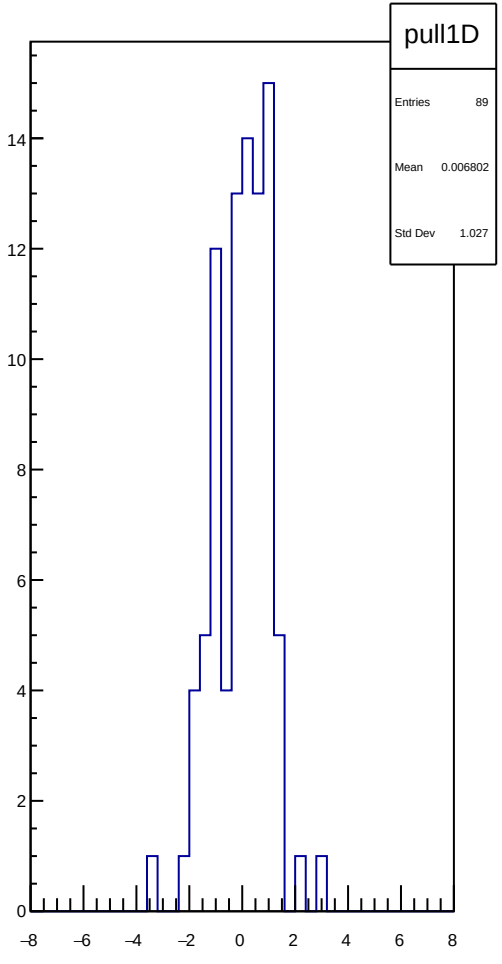

cor_asym_sam_26_dd_rms vs run
χ² / ndf 347 / 88
p0 207.7 ± 0.16
218
216
214
212
210
208
206
204
202
200
198

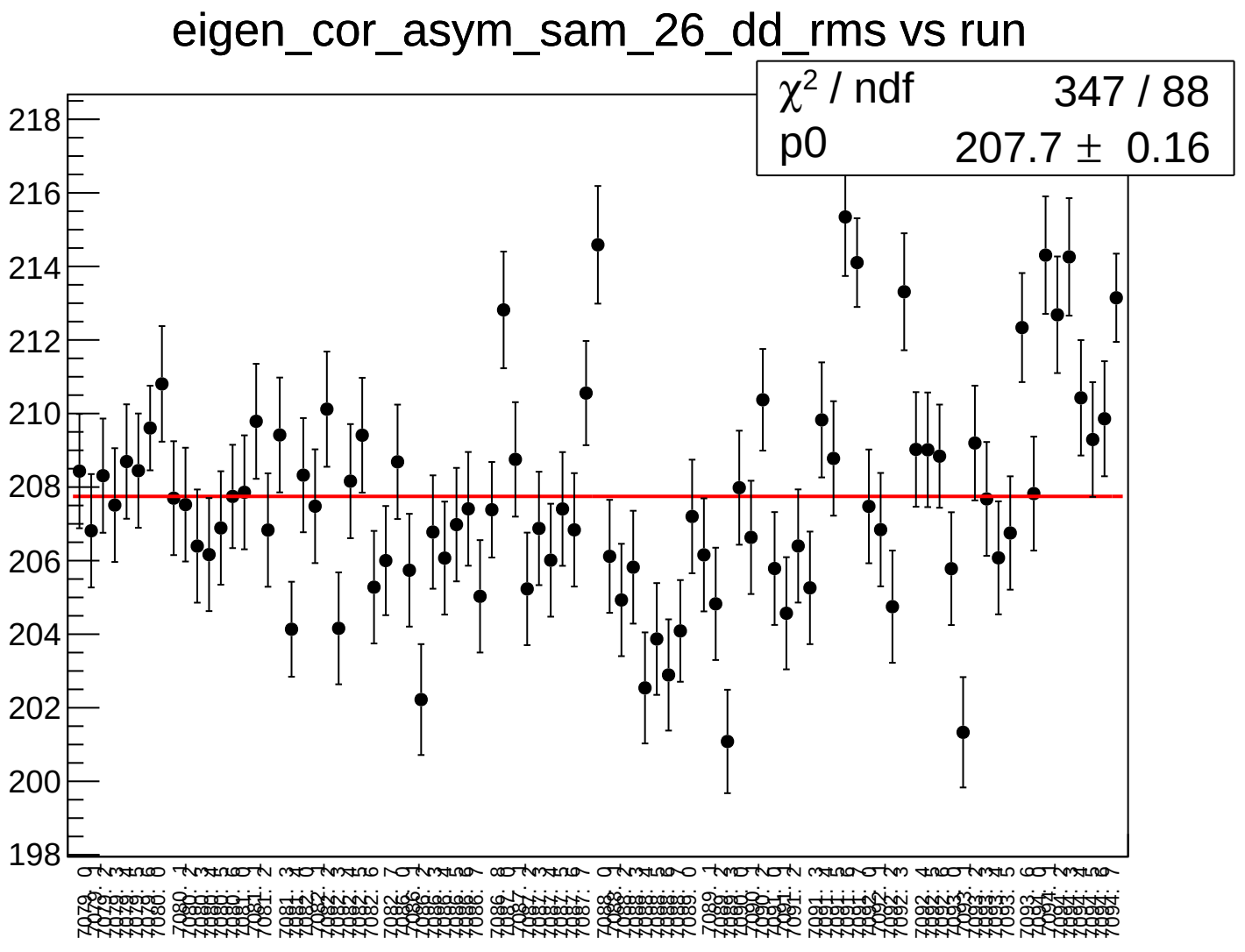

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 80.76 / 88
p0 −3279 ± 1693
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −879.9
Std Dev 0
2
1
0
−1
−2

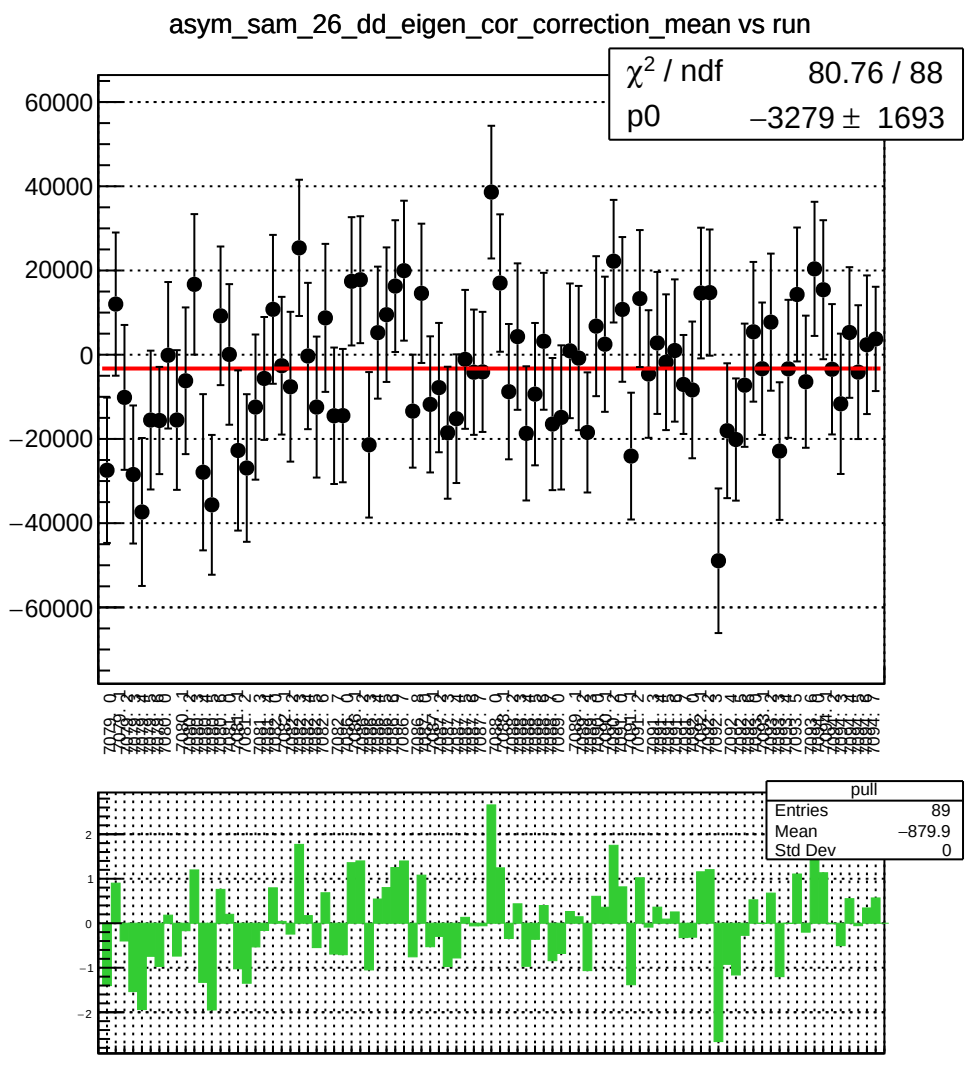

pull1D
Entries 89
Mean −0.004966
Std Dev 0.9526
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

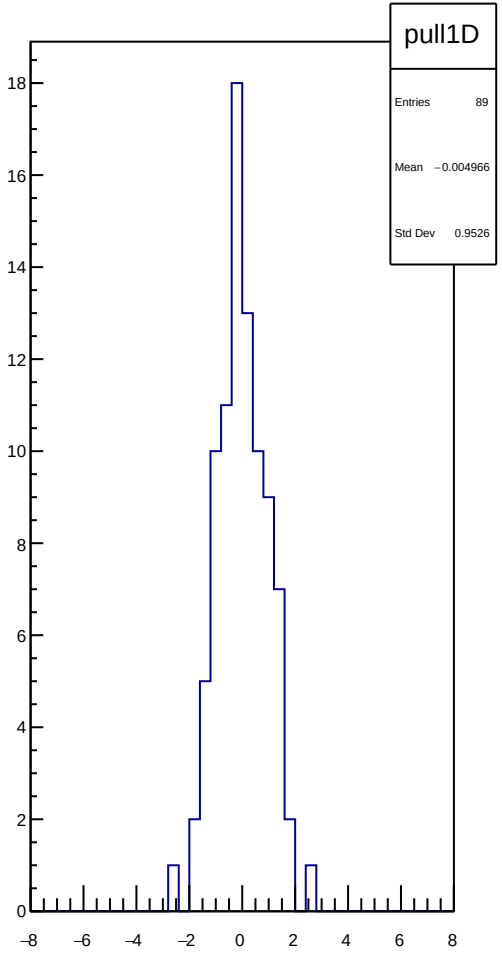

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 4230 / 88
p0 1552 ± 1.197
1800
1700
1600
1500
1400

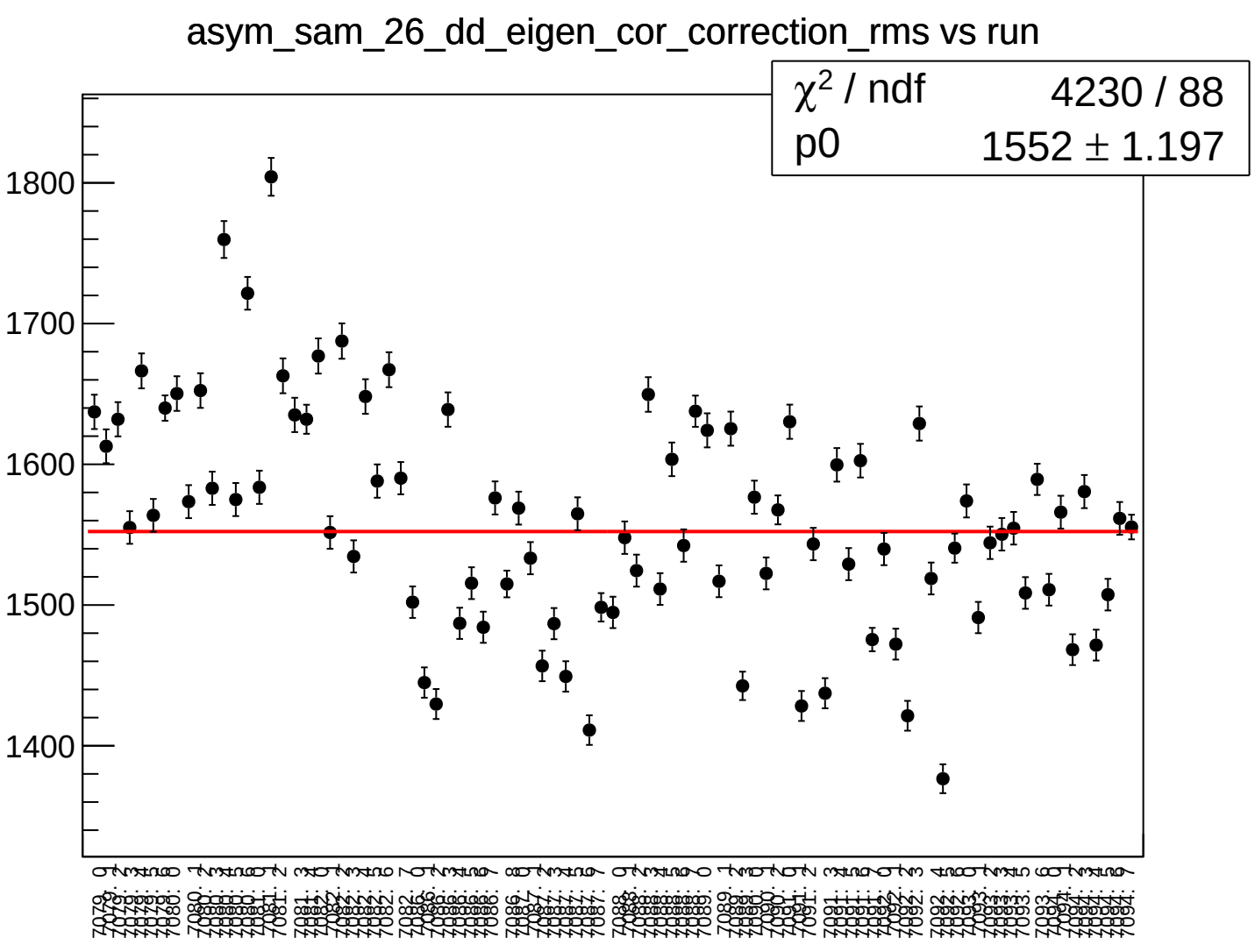

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 93.86 / 88
p0 −79.55 ± 226.3
pull
Entries 89
Mean −390.6
Std Dev 0

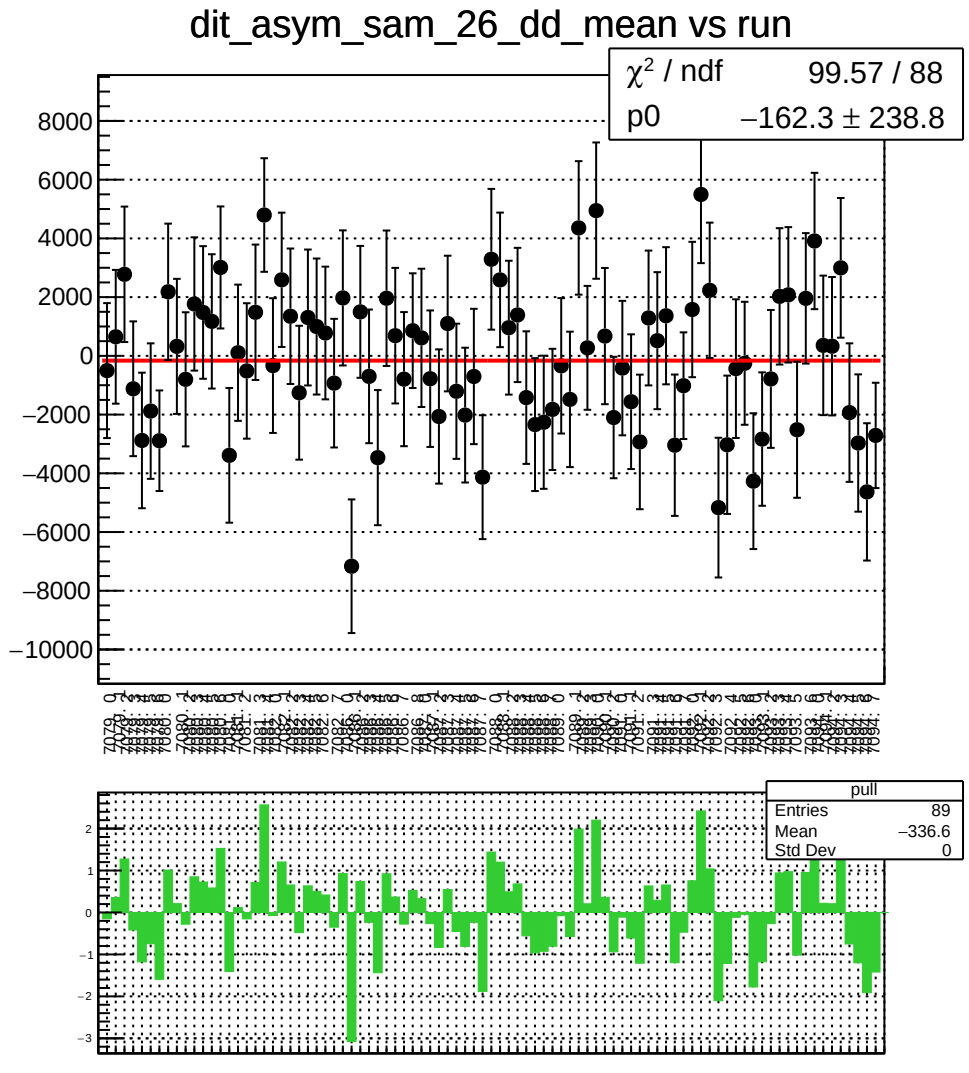

pull1D
Entries 89
Mean 0.006802
Std Dev 1.027

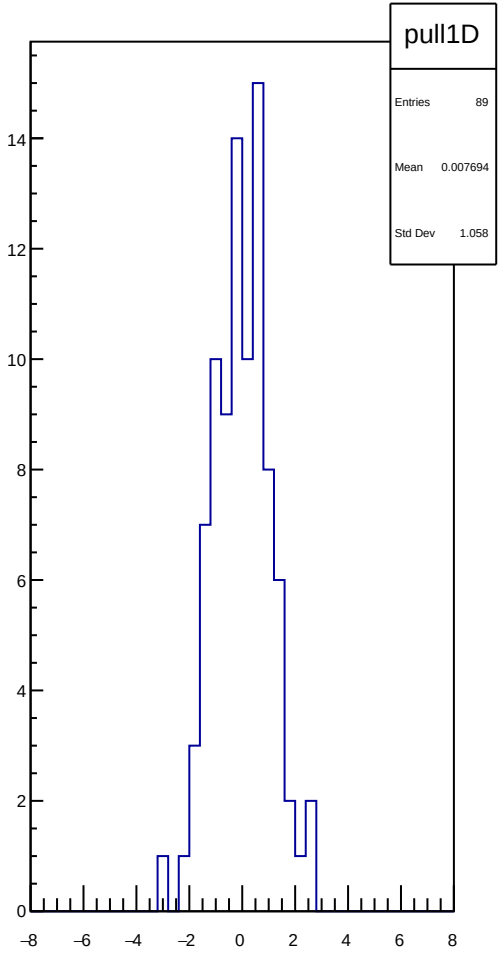

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 347 / 88
p0 207.7 ± 0.16
218
216
214
212
210
208
206
204
202
200
198

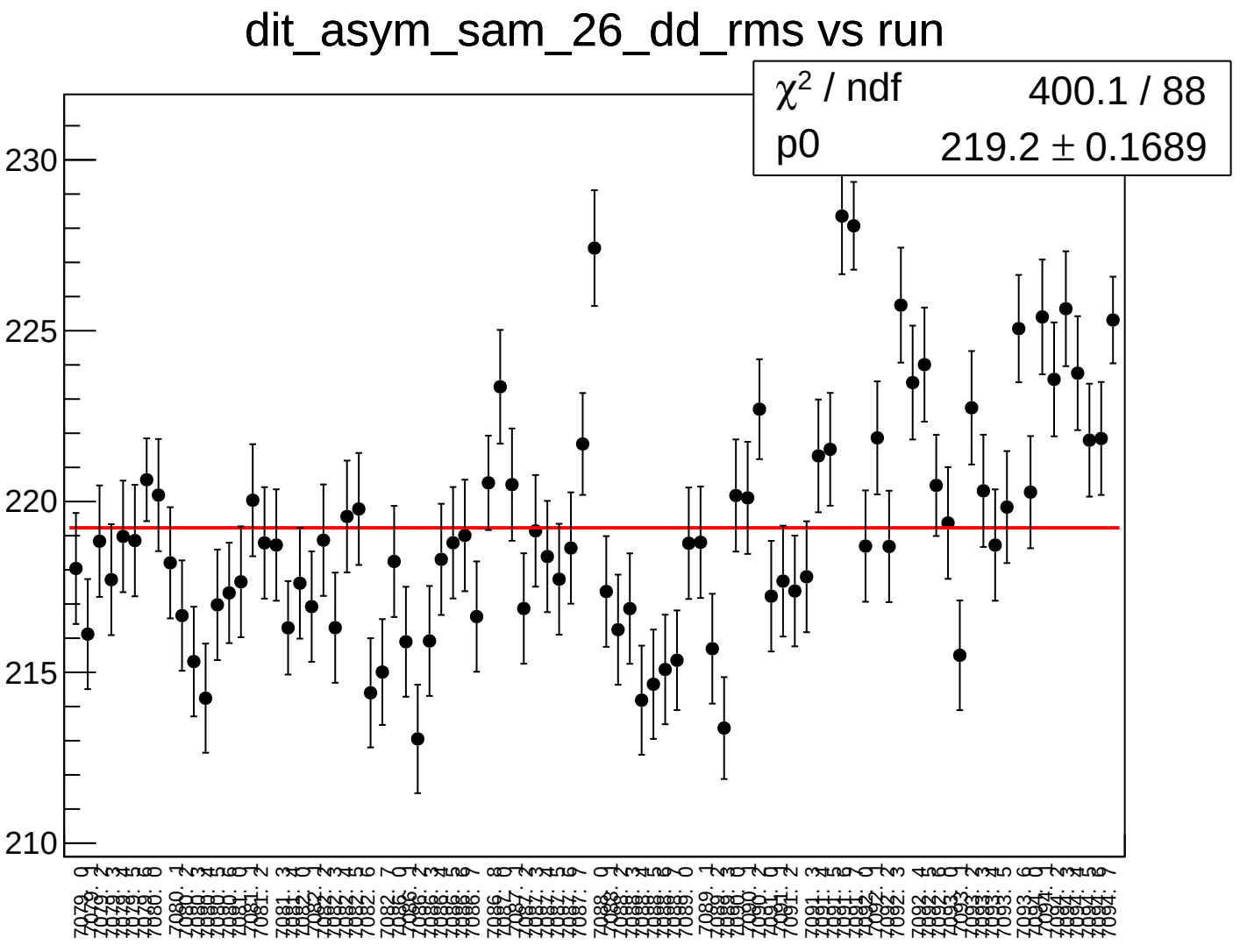

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.76 / 88
p0 −3279 ± 1693
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −879.9
Std Dev 0
2
1
0
−1
−2

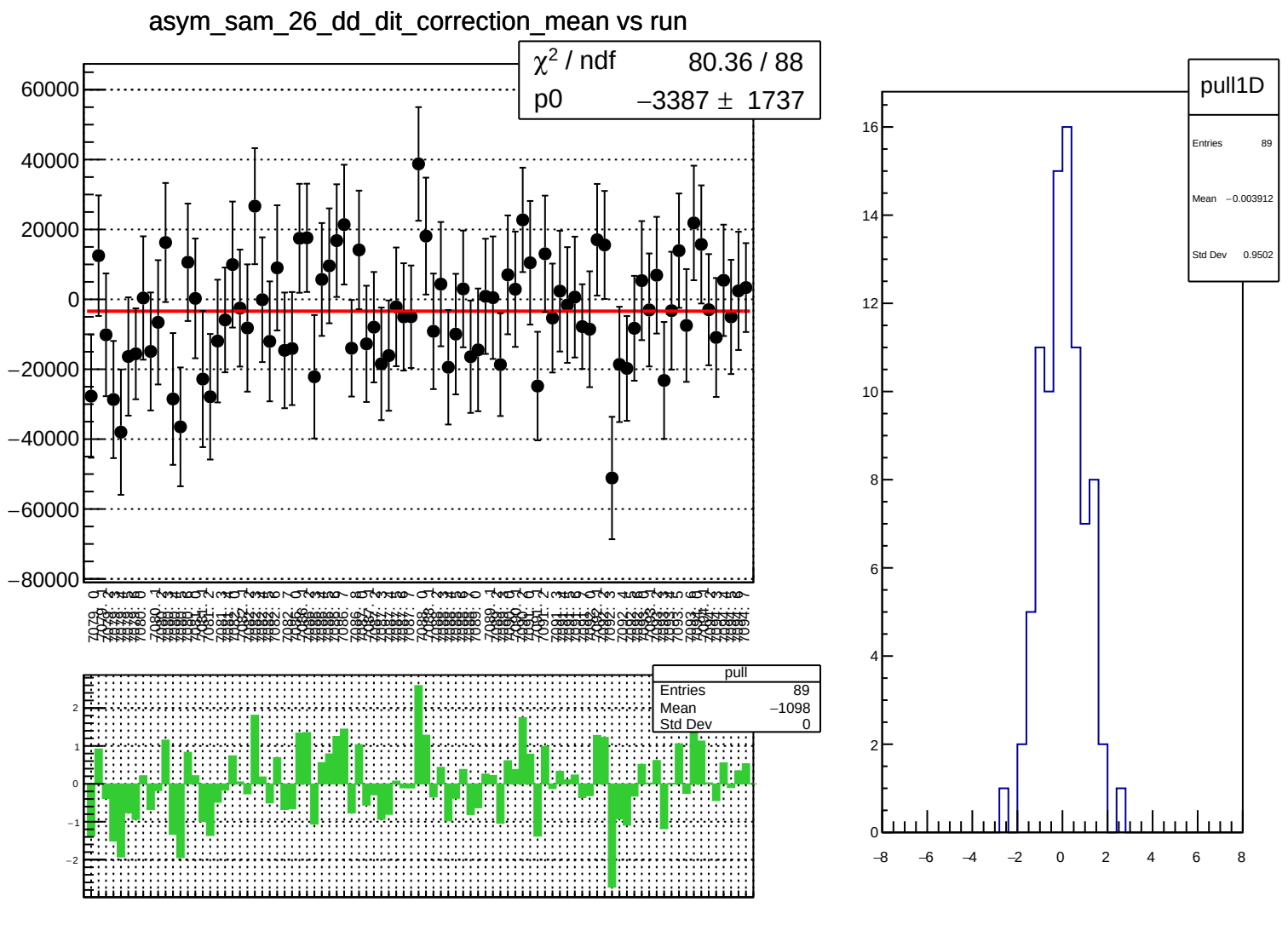

pull1D
Entries 89
Mean −0.004966
Std Dev 0.9526
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

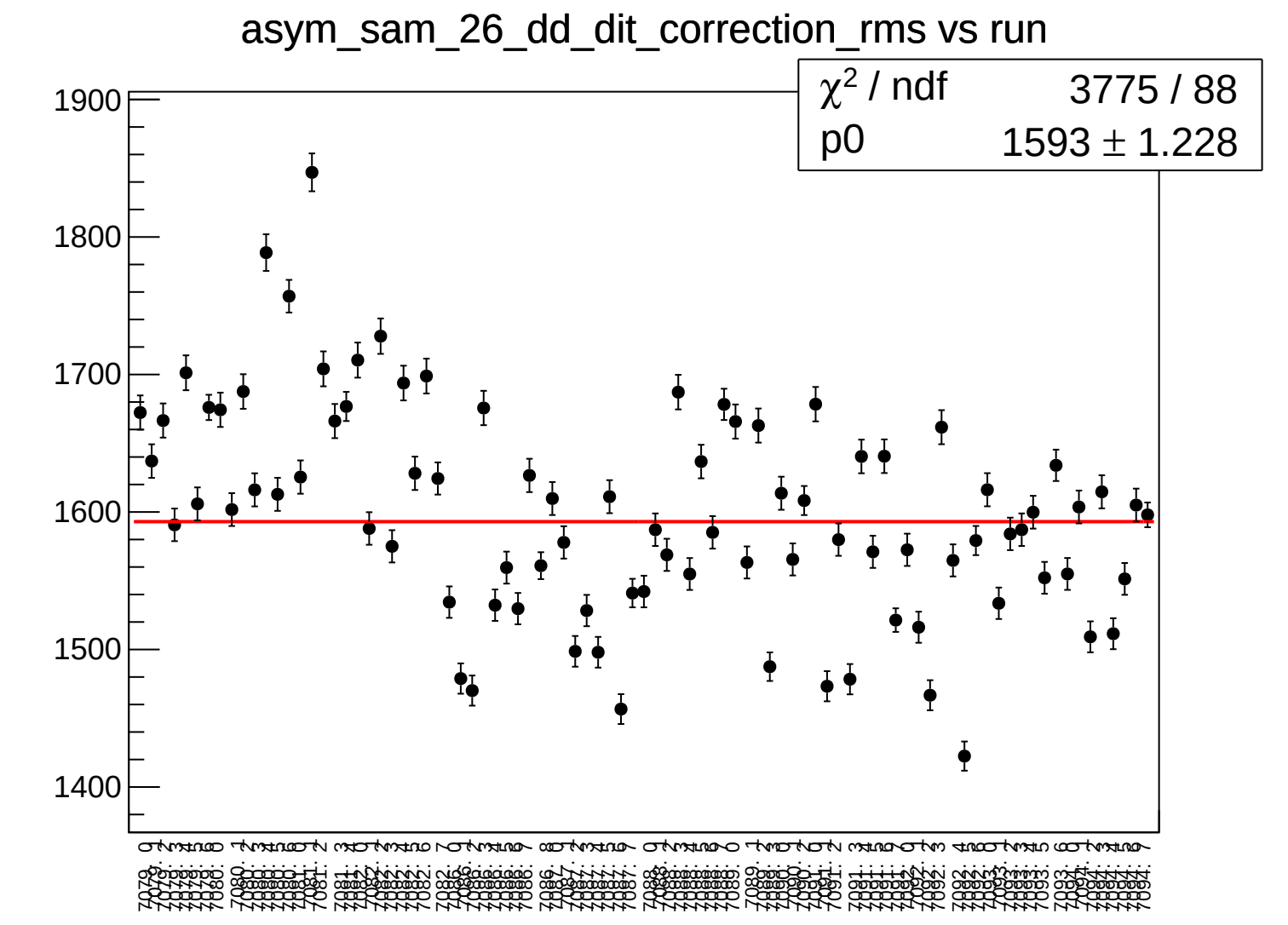

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4230 / 88
p0 1552 ± 1.197
1800
1700
1600
1500
1400

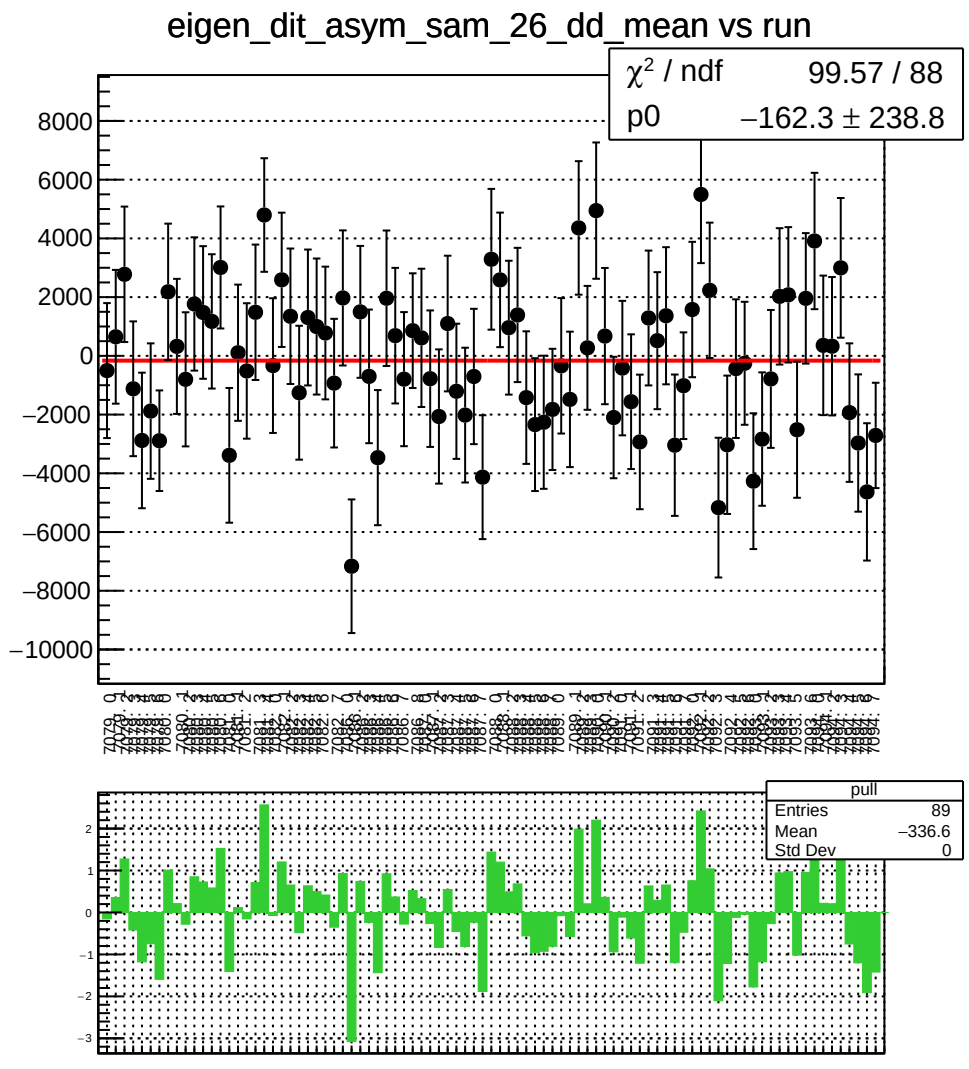

dit_asym_sam_26_dd_mean vs run
χ² / ndf 99.57 / 88
p0 −162.3 ± 238.8
pull
Entries 89
Mean −336.6
Std Dev 0

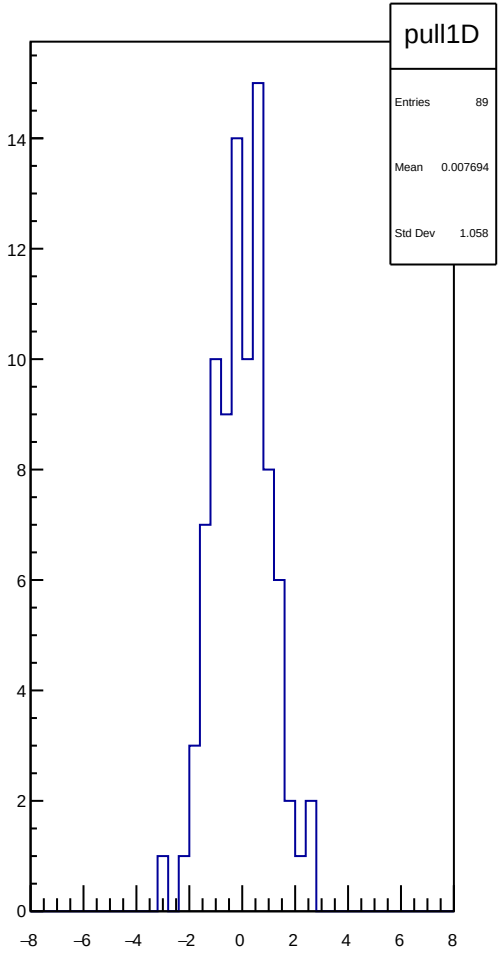

pull1D
Entries 89
Mean 0.007694
Std Dev 1.058

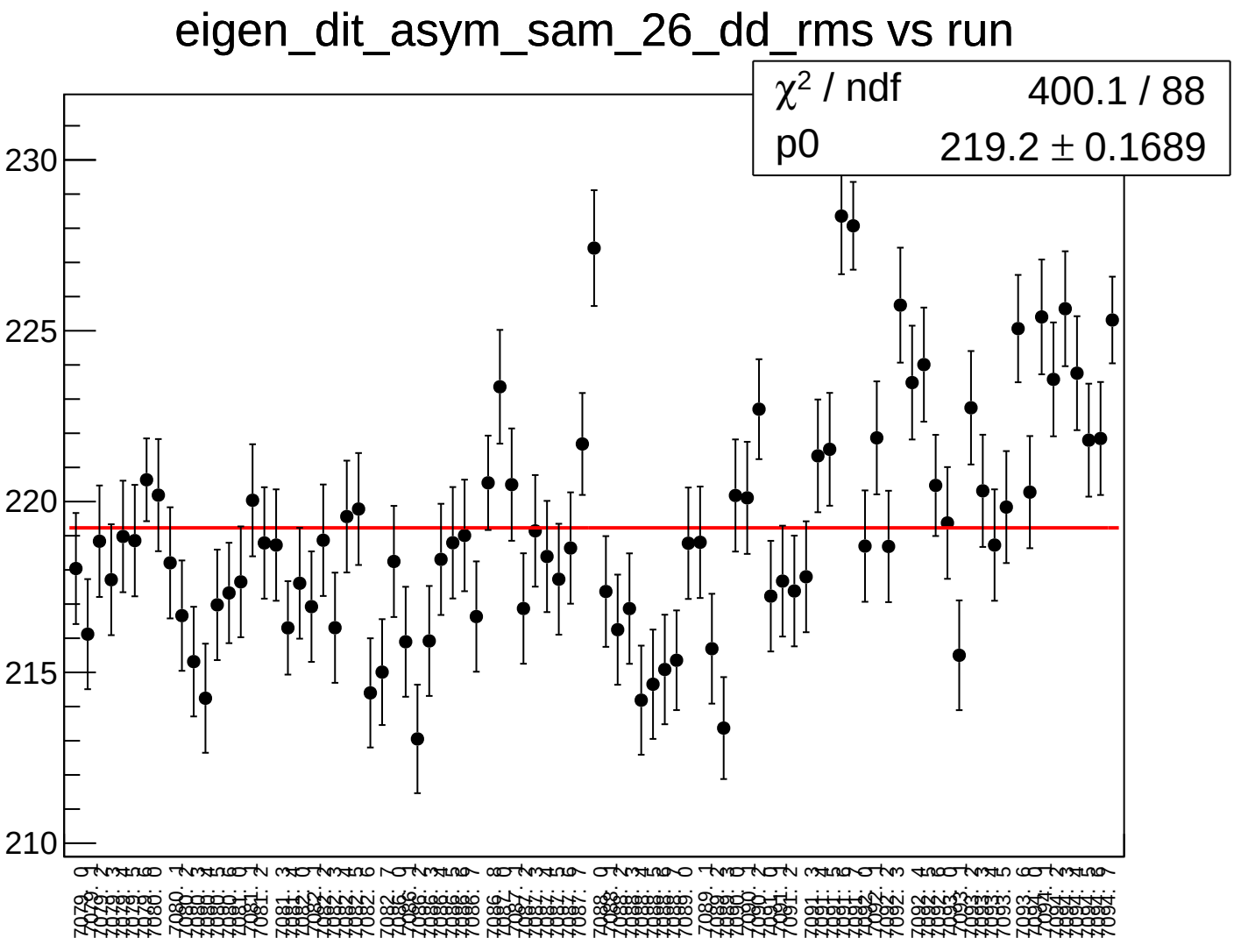

dit_asym_sam_26_dd_rms vs run
χ² / ndf 400.1 / 88
p0 219.2 ± 0.1689
230
225
220
215
210

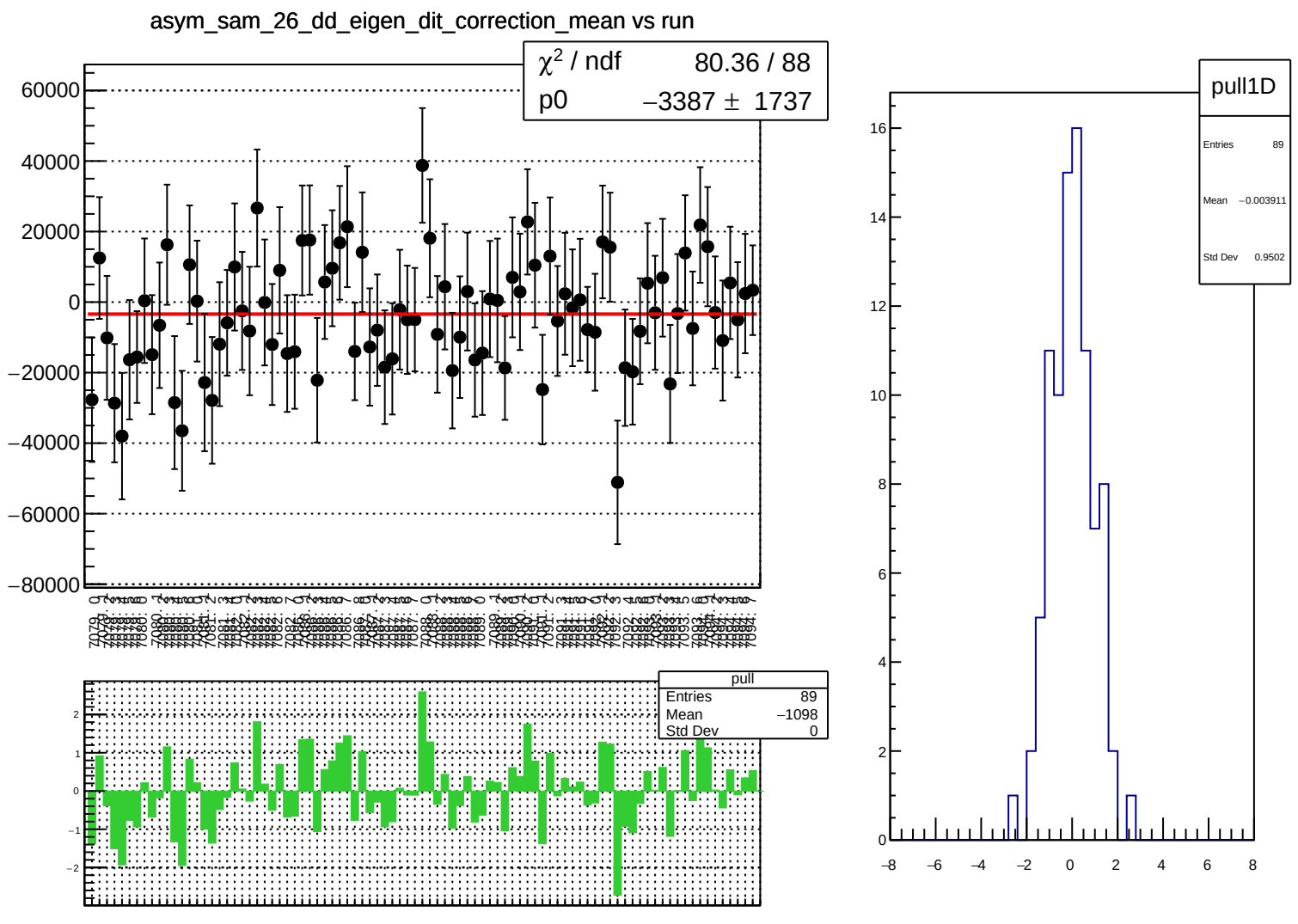

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 80.36 / 88
p0 −3387 ± 1737
pull
Entries 89
Mean −1098
Std Dev 0
pull1D
Entries 89
Mean −0.003912
Std Dev 0.9502

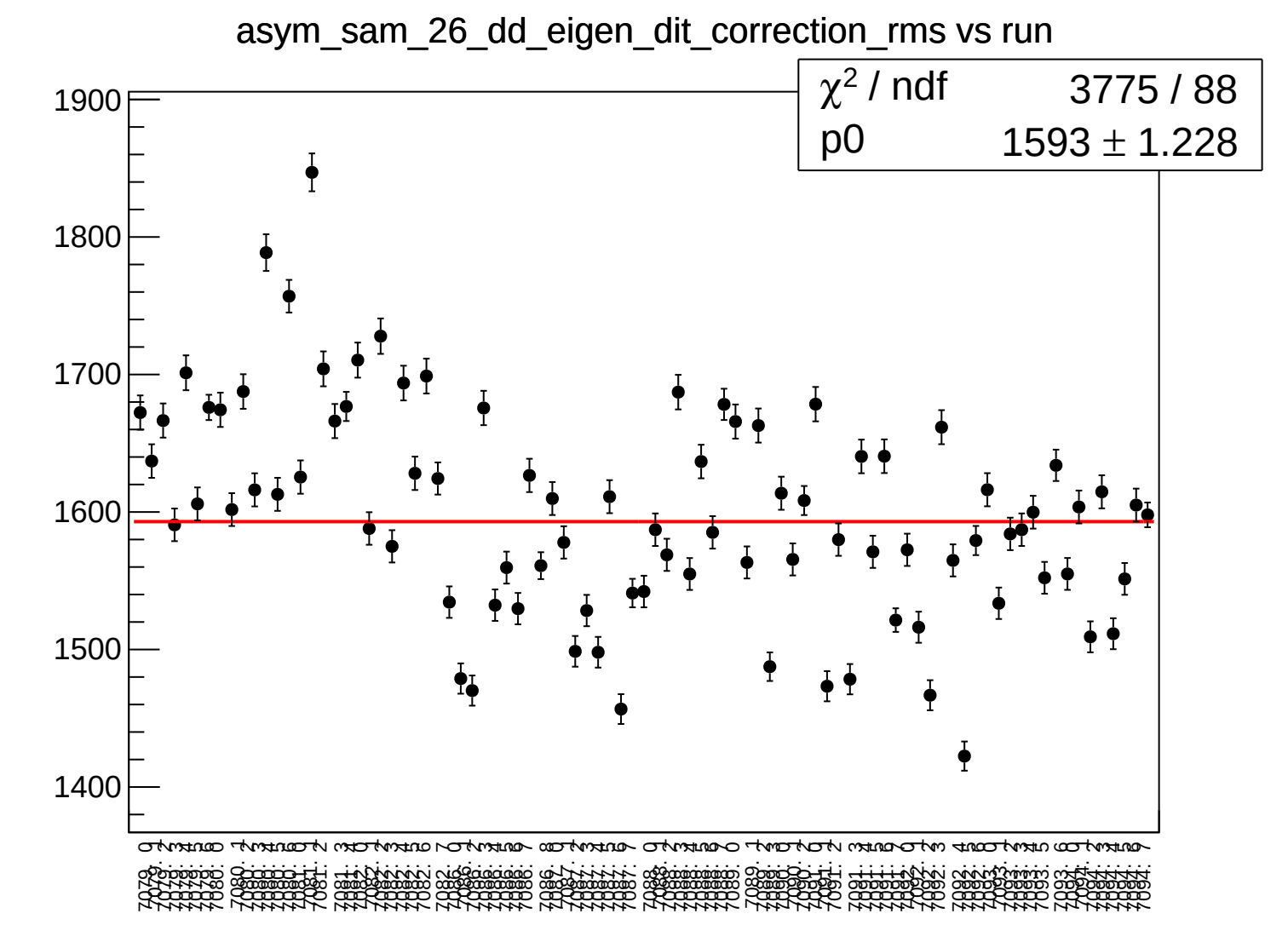

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 3775 / 88
p0 1593 ± 1.228
1900
1800
1700
1600
1500
1400

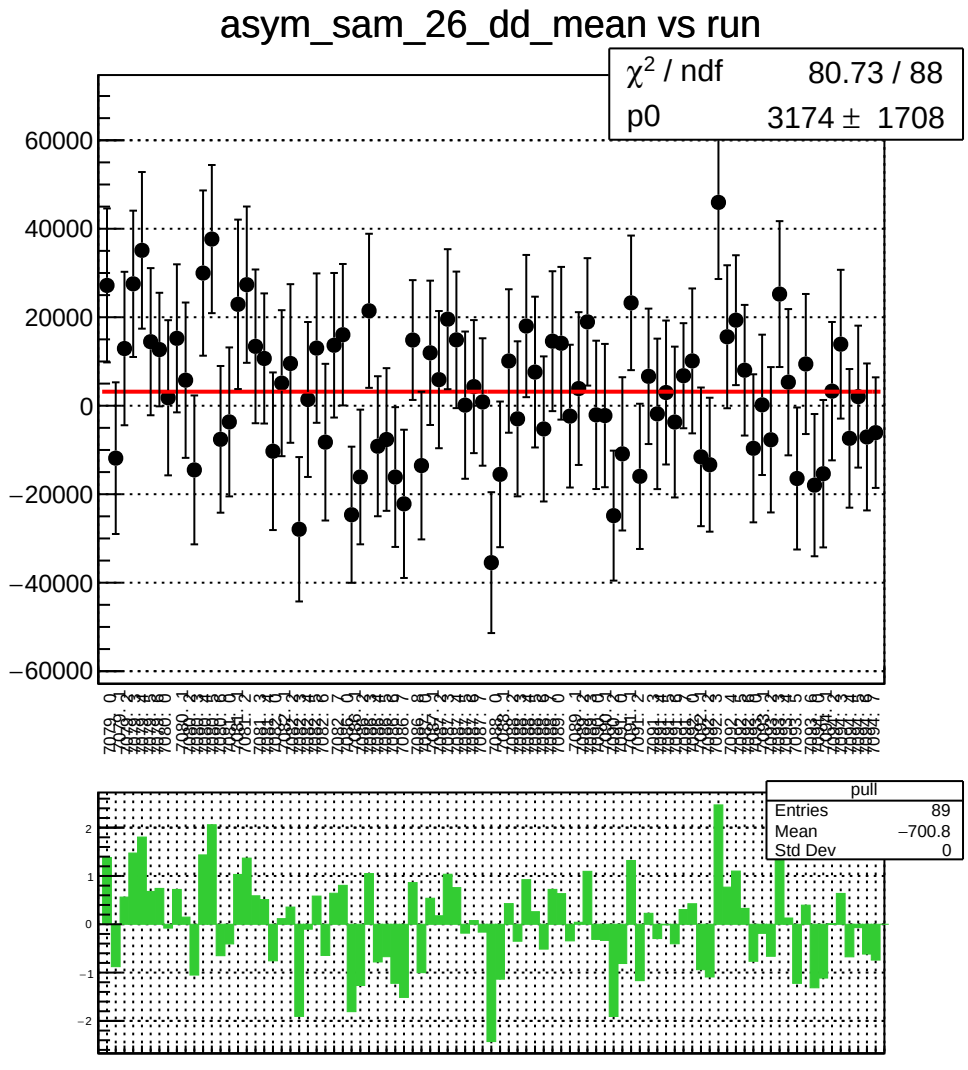

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 99.57 / 88
p0 −162.3 ± 238.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 89
Mean −336.6
Std Dev 0
2
1
0
−1
−2
−3

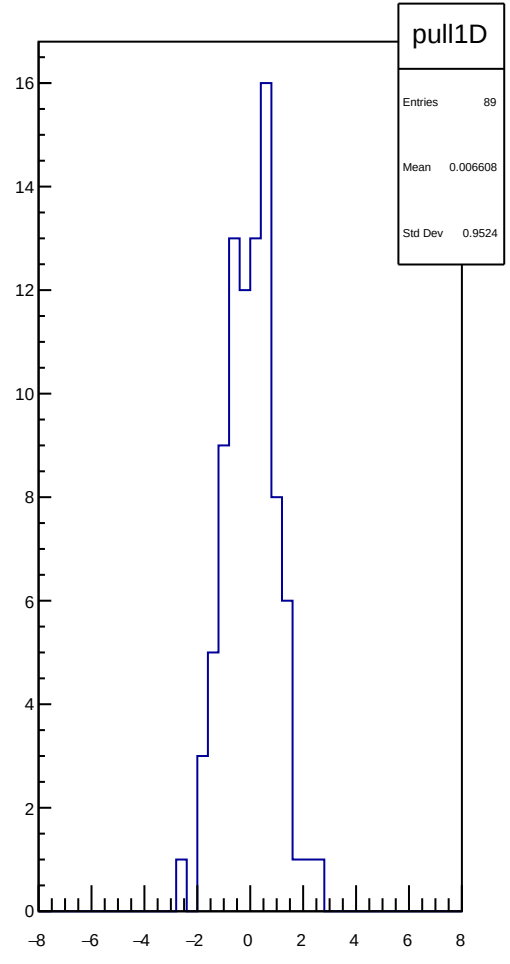

pull1D
Entries 89
Mean 0.007694
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

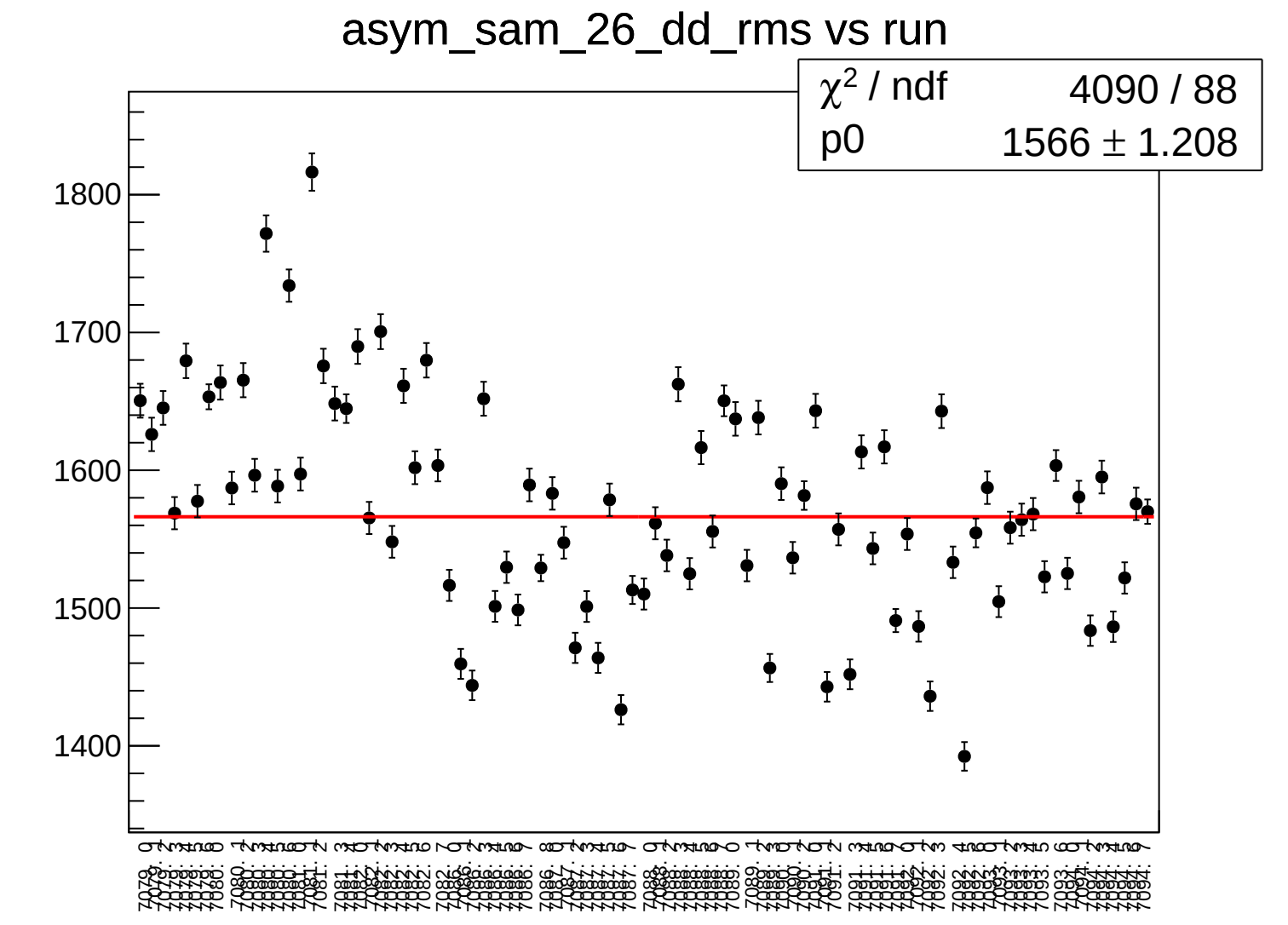

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 400.1 / 88
p0 219.2 ± 0.1689
230
225
220
215
210

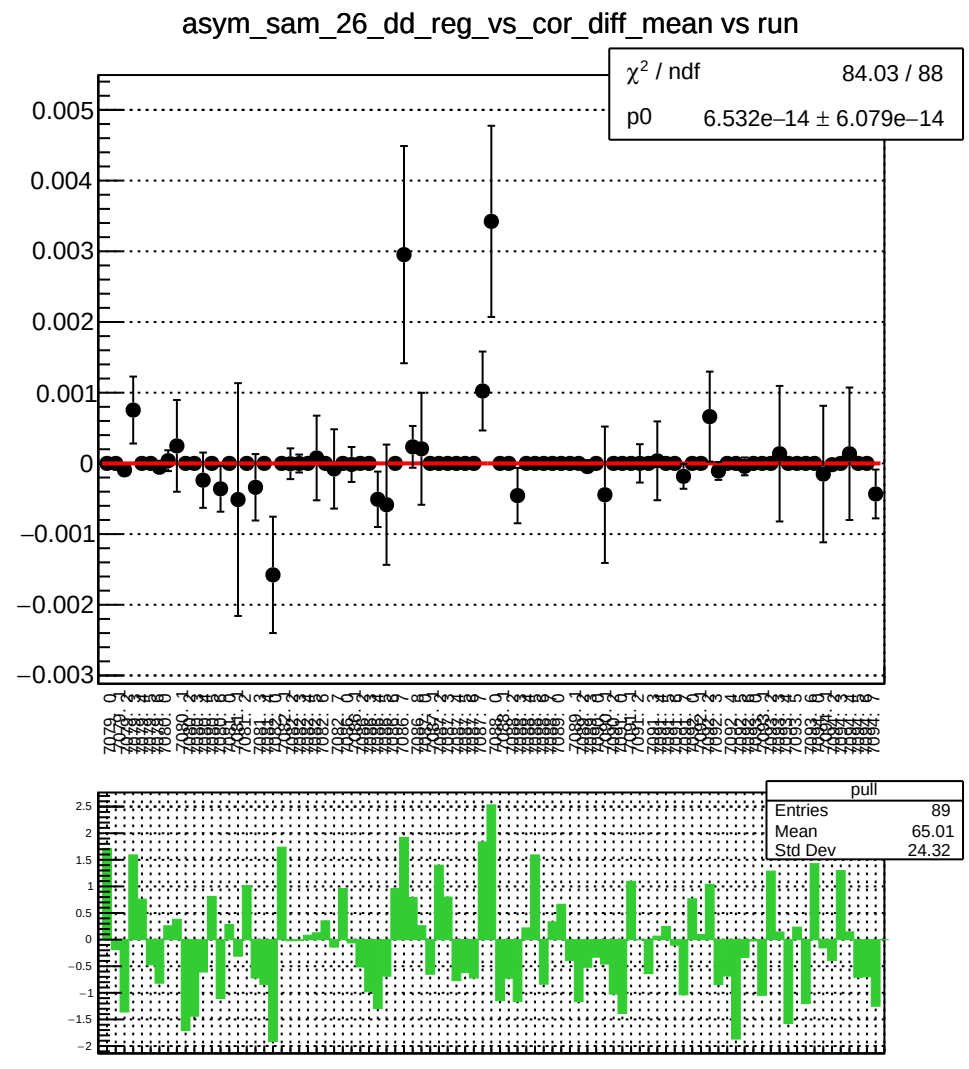

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.36 / 88
p0 −3387 ± 1737
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −1098
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.003911
Std Dev 0.9502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

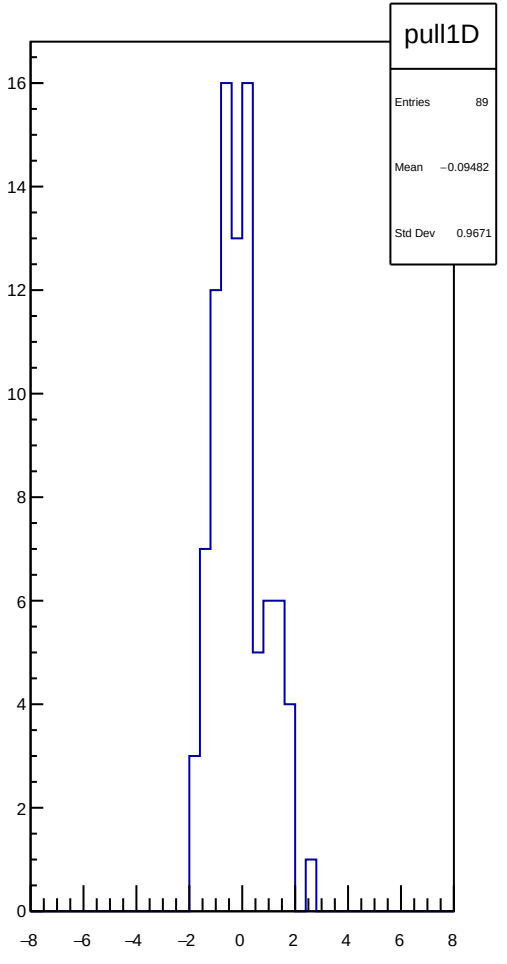

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3775 / 88
p0 1593 ± 1.228
1900
1800
1700
1600
1500
1400

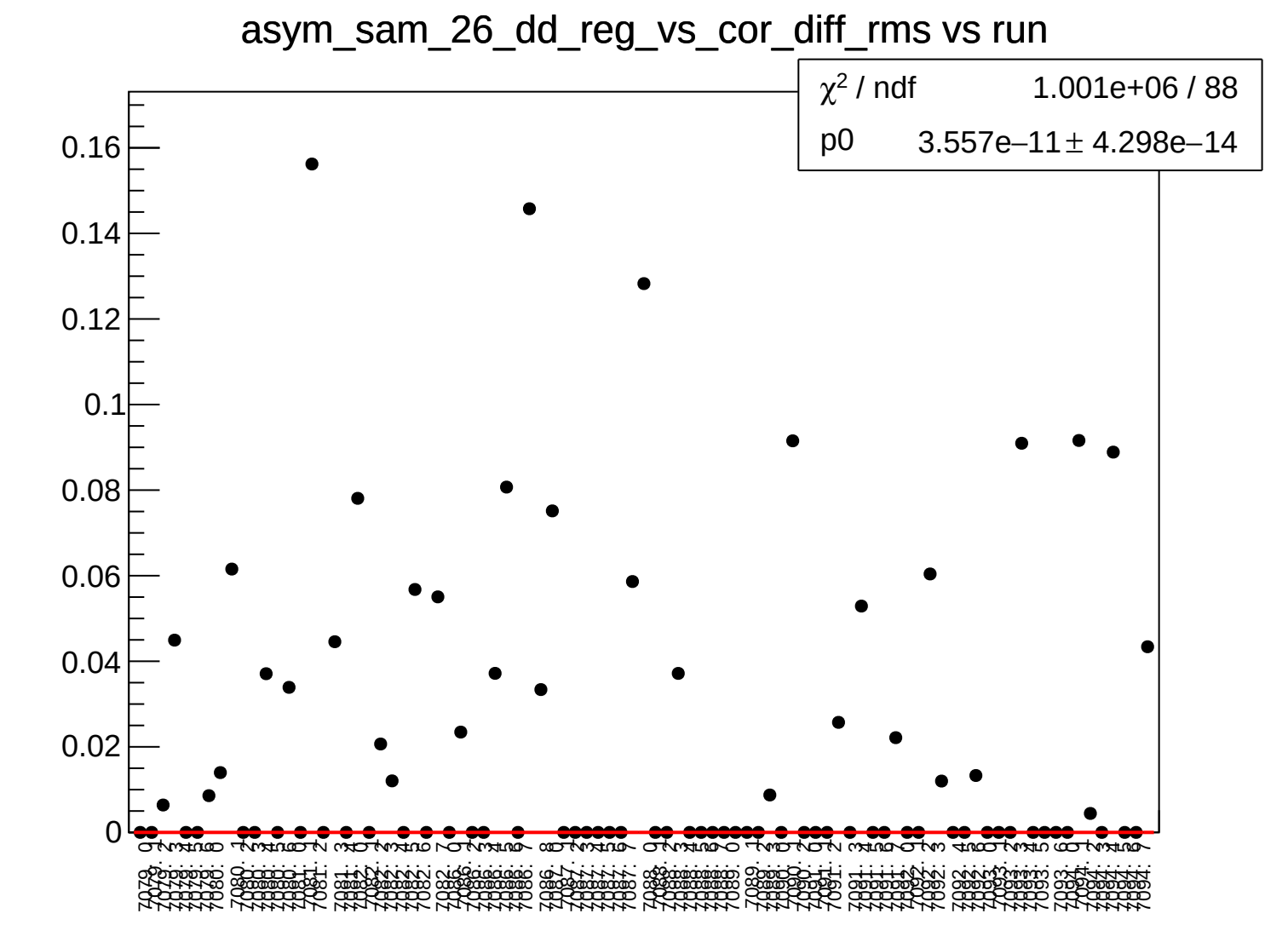

asym_sam_26_dd_mean vs run
χ² / ndf 80.73 / 88
p0 3174 ± 1708
pull
Entries 89
Mean −700.8
Std Dev 0

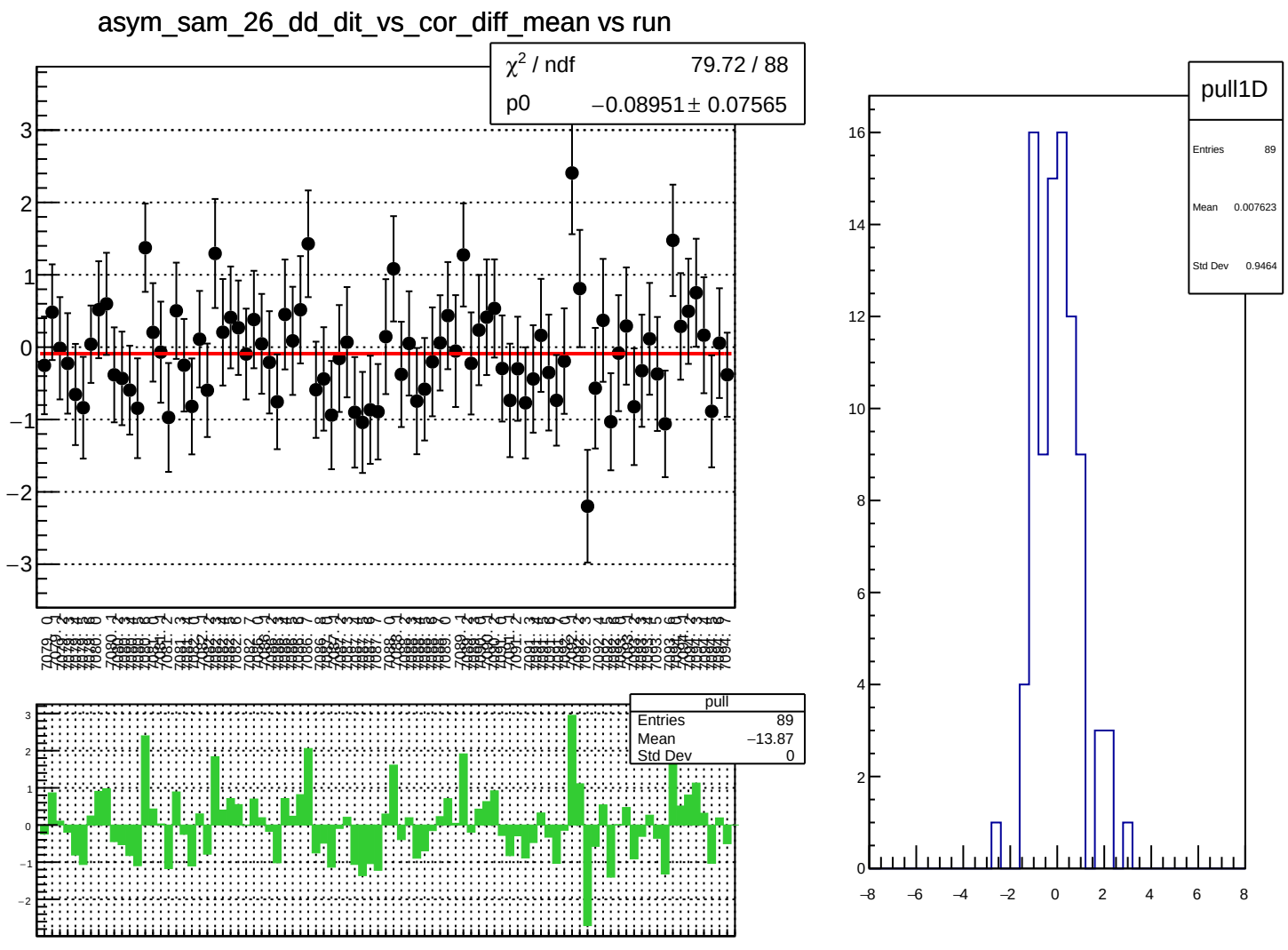

pull1D
Entries 89
Mean 0.006608
Std Dev 0.9524

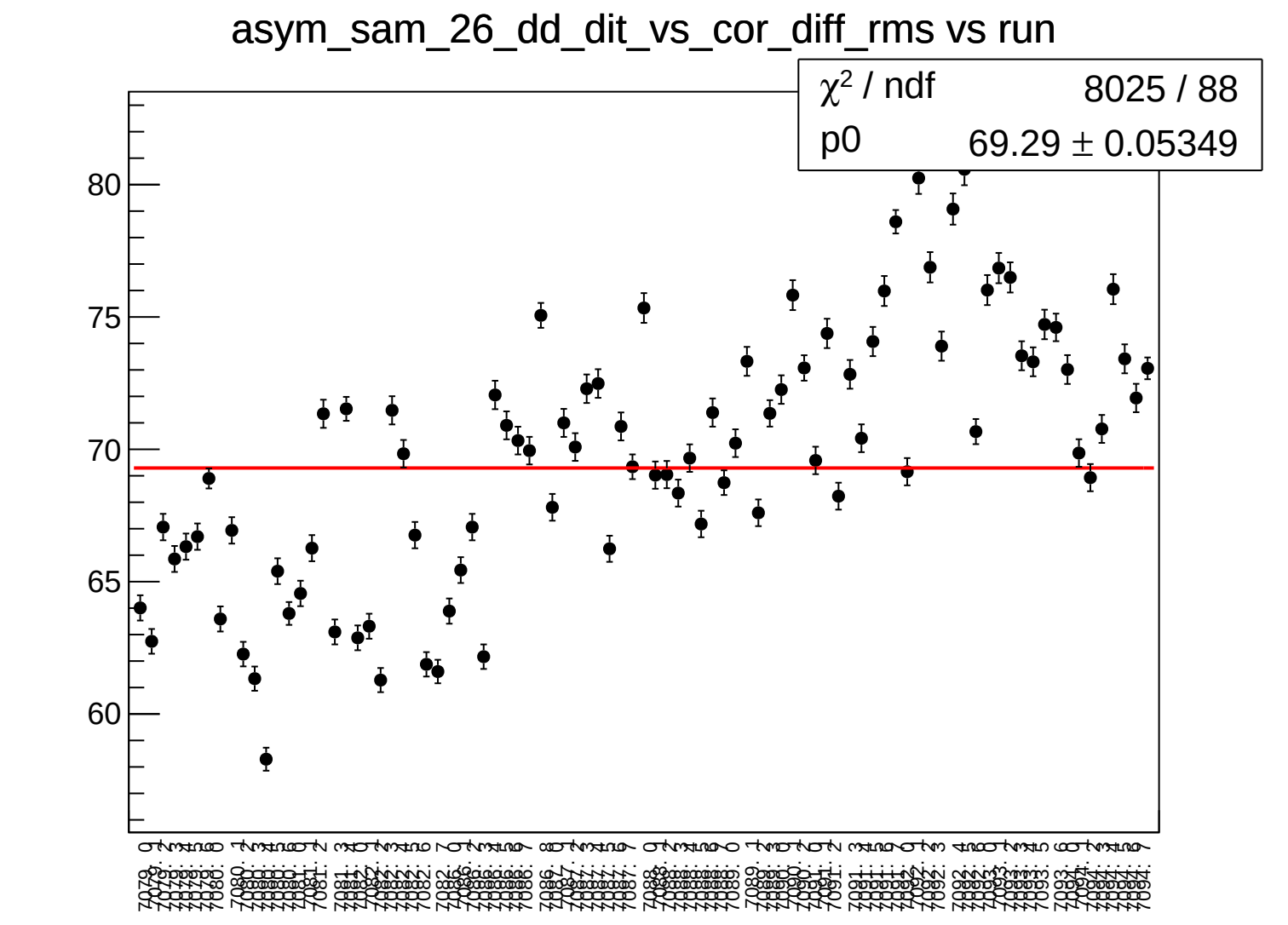

asym_sam_26_dd_rms vs run
χ² / ndf 4090 / 88
p0 1566 ± 1.208
1800
1700
1600
1500
1400

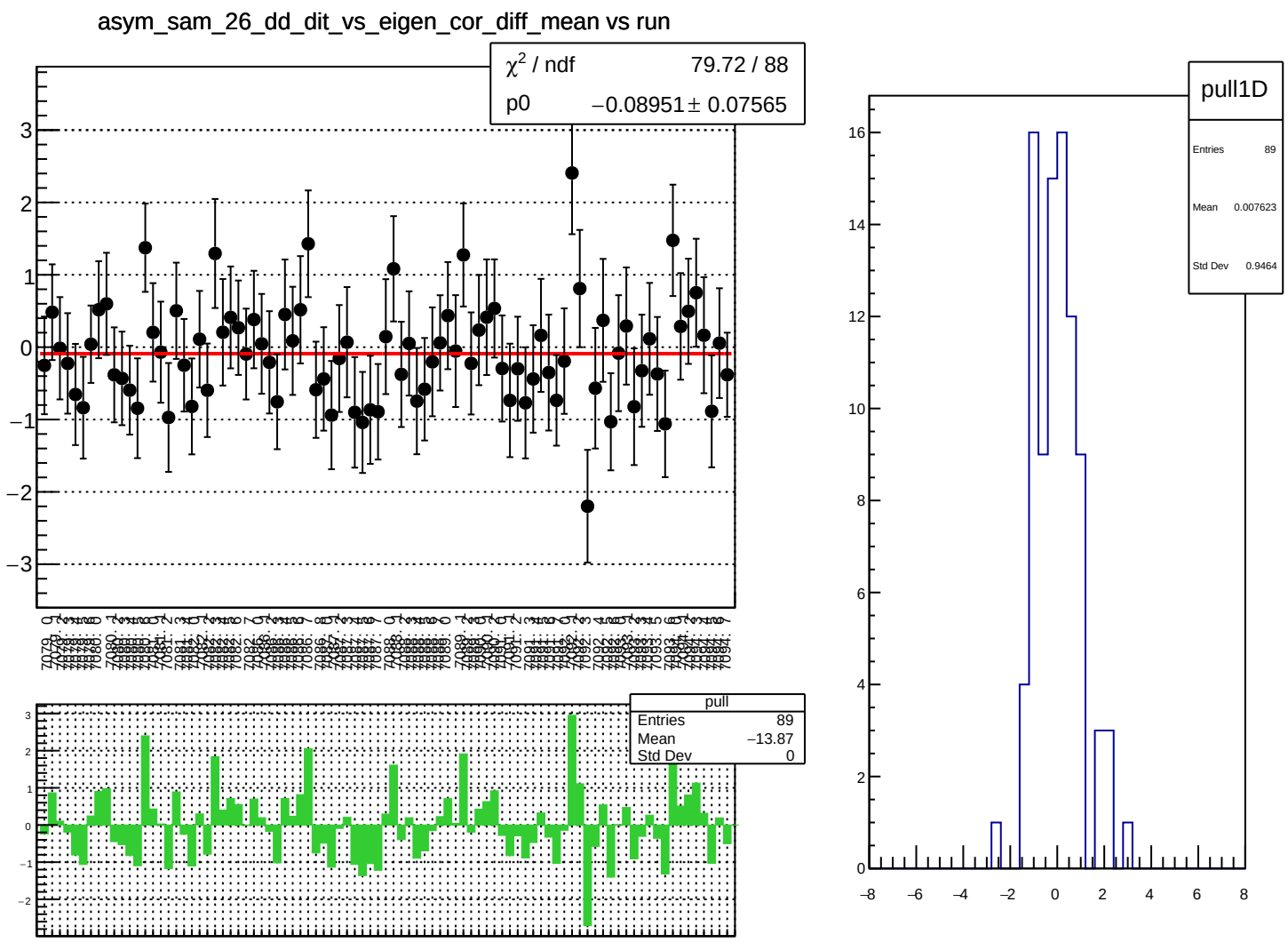

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.03 / 88
p0 6.532e−14 ± 6.079e−14
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean 65.01
Std Dev 24.32
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

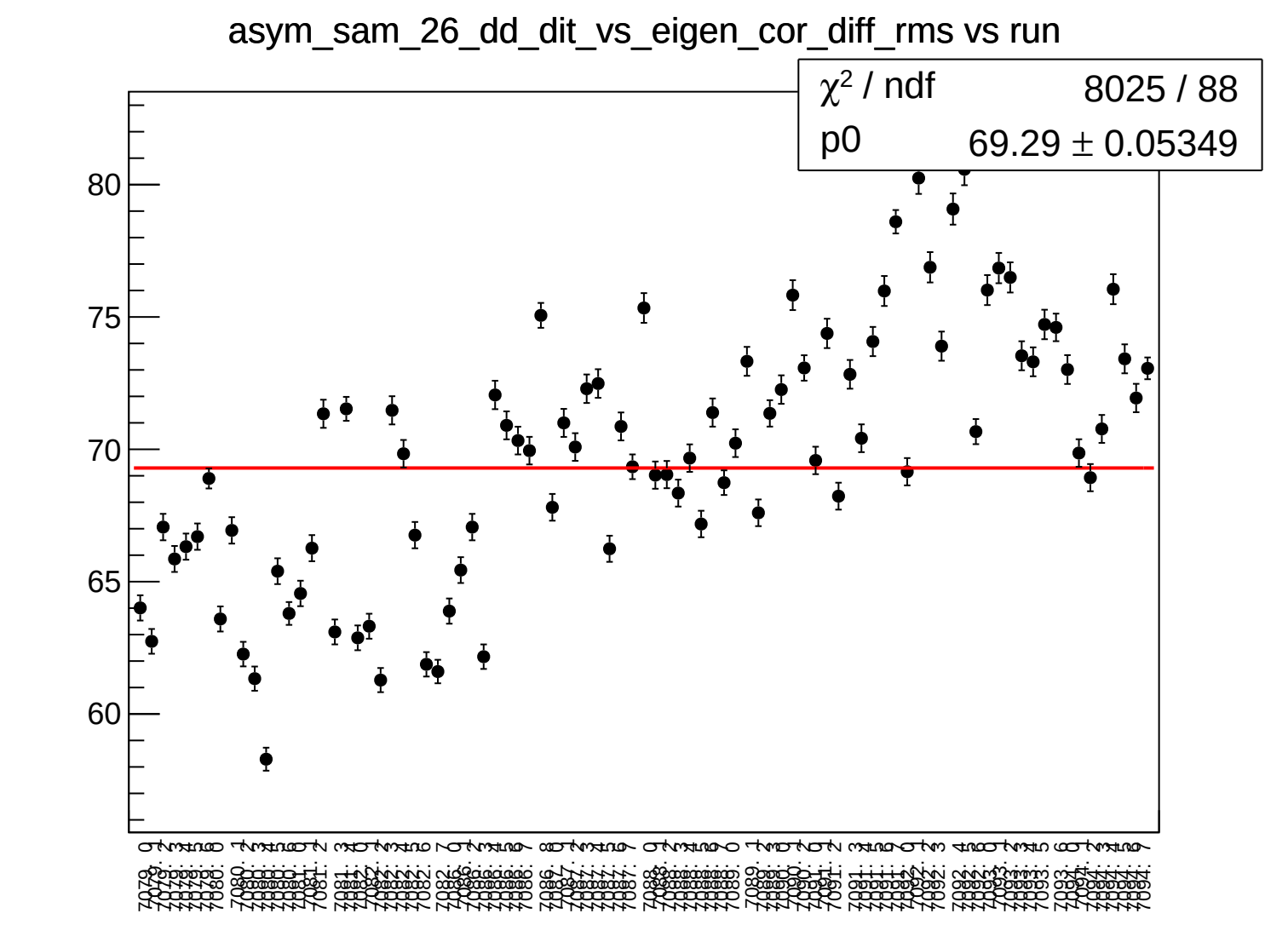

pull1D
Entries 89
Mean −0.09482
Std Dev 0.9671
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

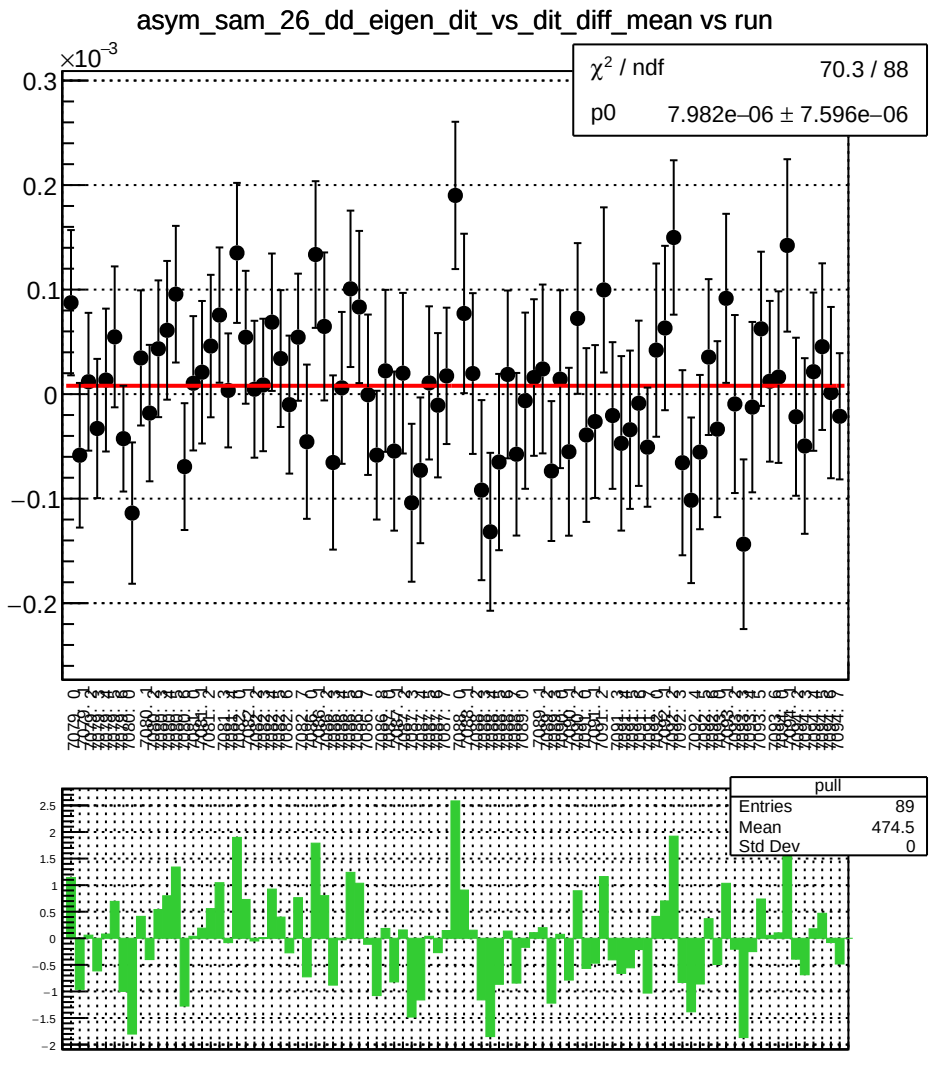

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 88
p0 3.557e−11 ± 4.298e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

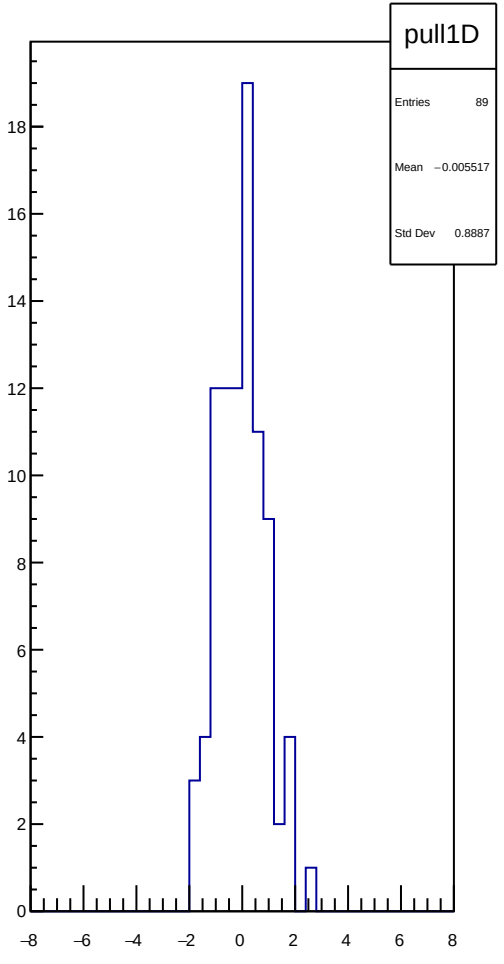

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.72 / 88
p0 −0.08951 ± 0.07565
pull
Entries 89
Mean −13.87
Std Dev 0
pull1D
Entries 89
Mean 0.007623
Std Dev 0.9464

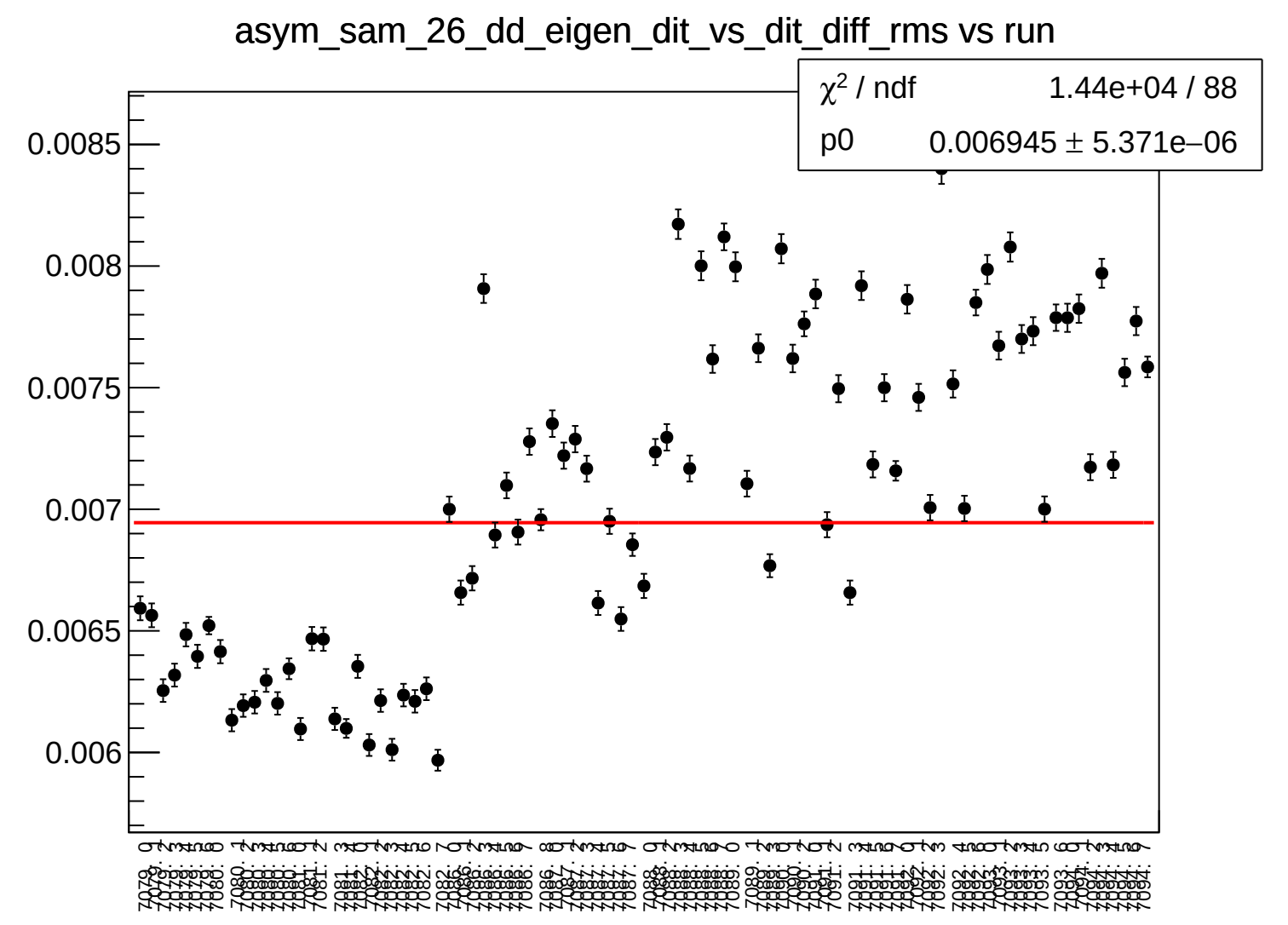

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8025 / 88
p0 69.29 ± 0.05349
80
75
70
65
60

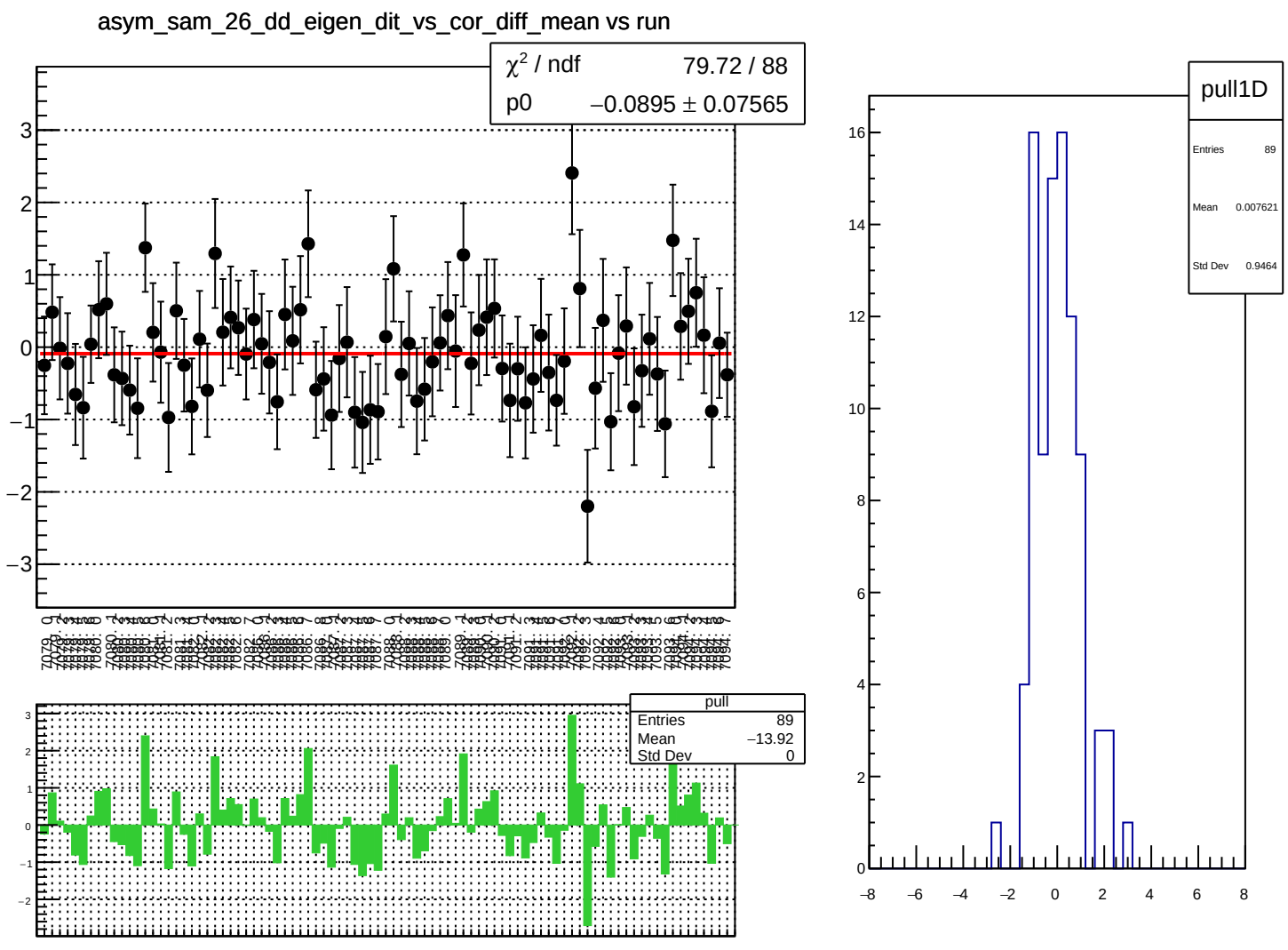

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.72 / 88
p0 −0.08951 ± 0.07565
pull
Entries 89
Mean −13.87
Std Dev 0
pull1D
Entries 89
Mean 0.007623
Std Dev 0.9464

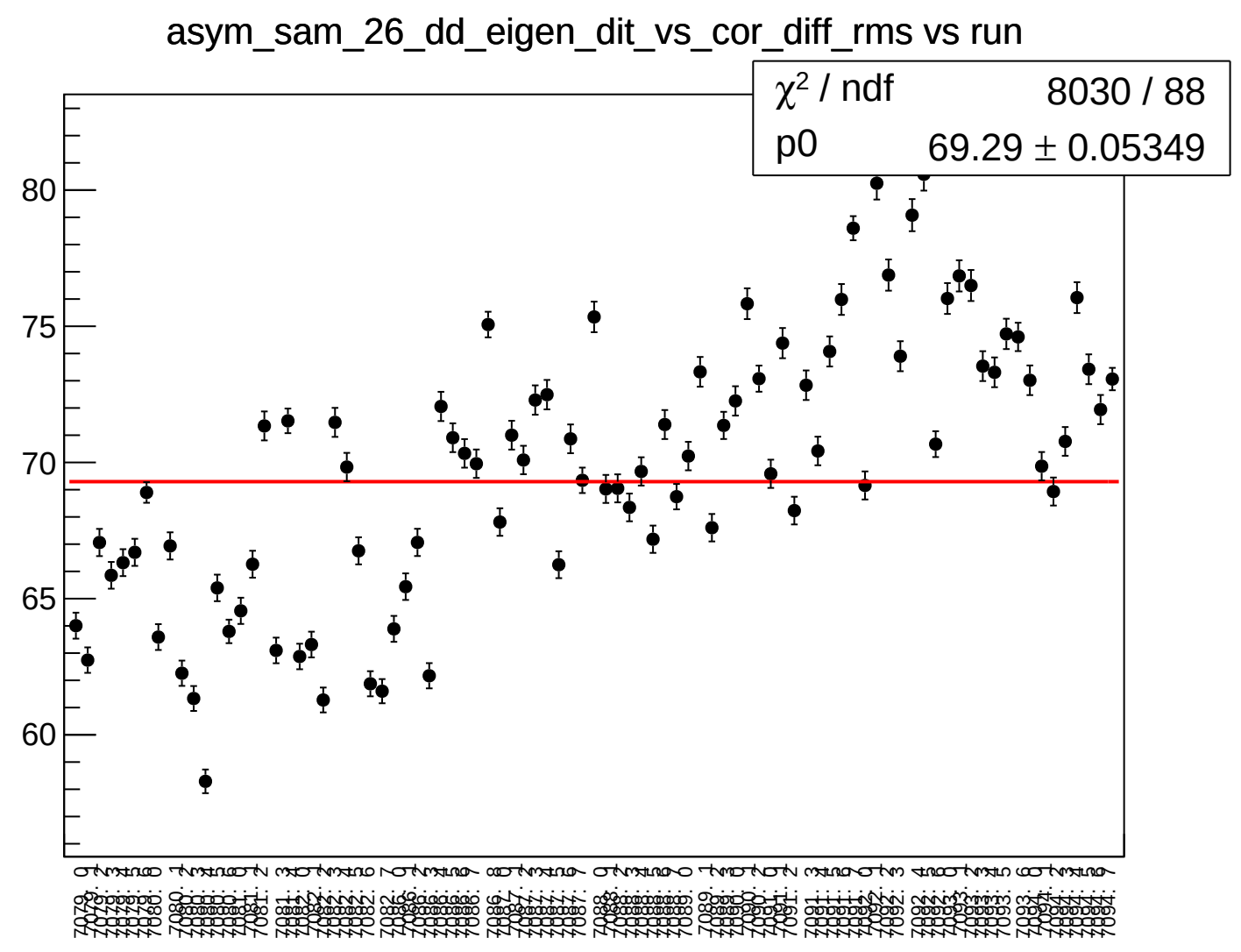

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8025 / 88
p0 69.29 ± 0.05349
80
75
70
65
60

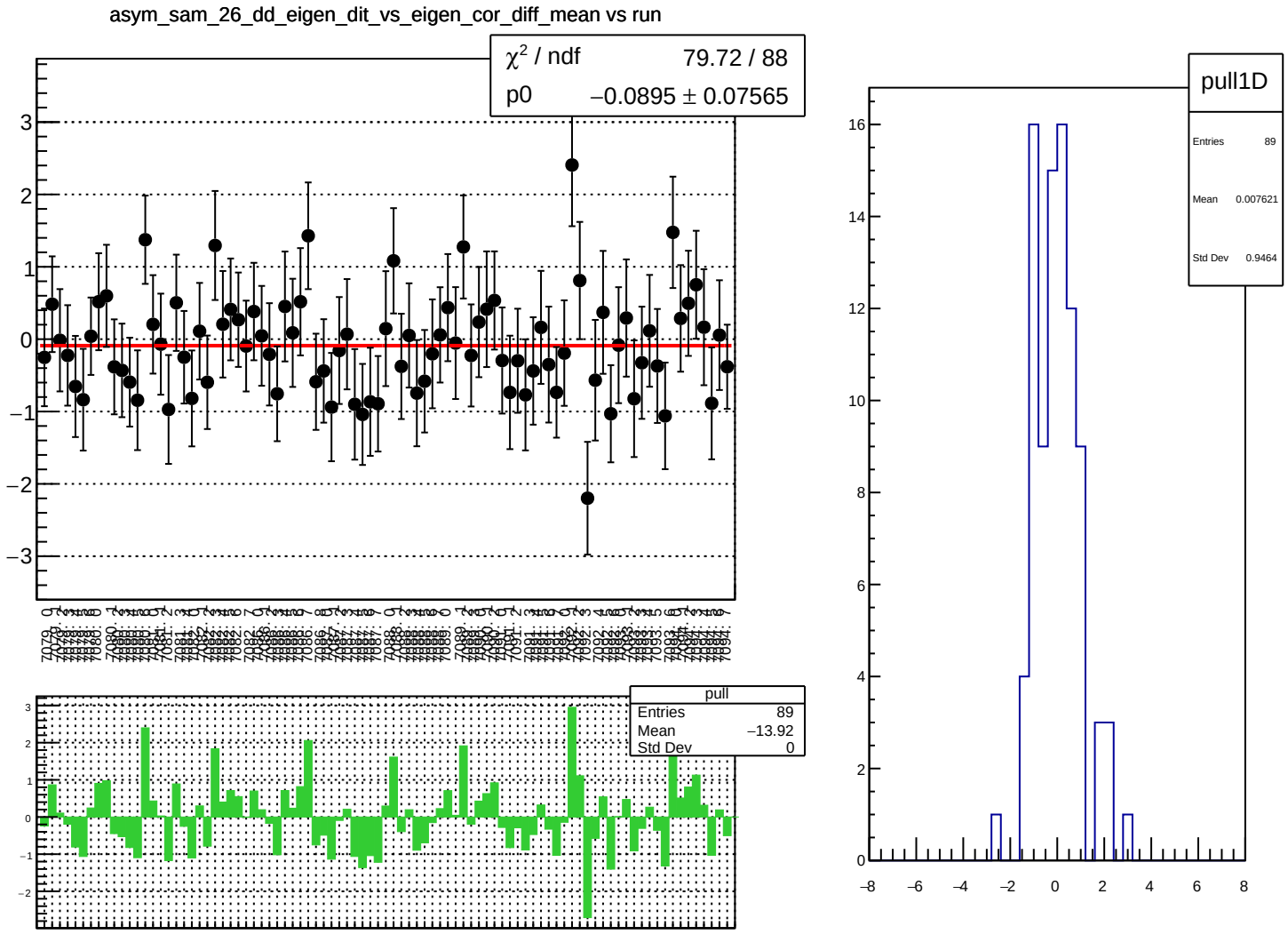

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 70.3 / 88
p0 7.982e−06 ± 7.596e−06
pull
Entries 89
Mean 474.5
Std Dev 0

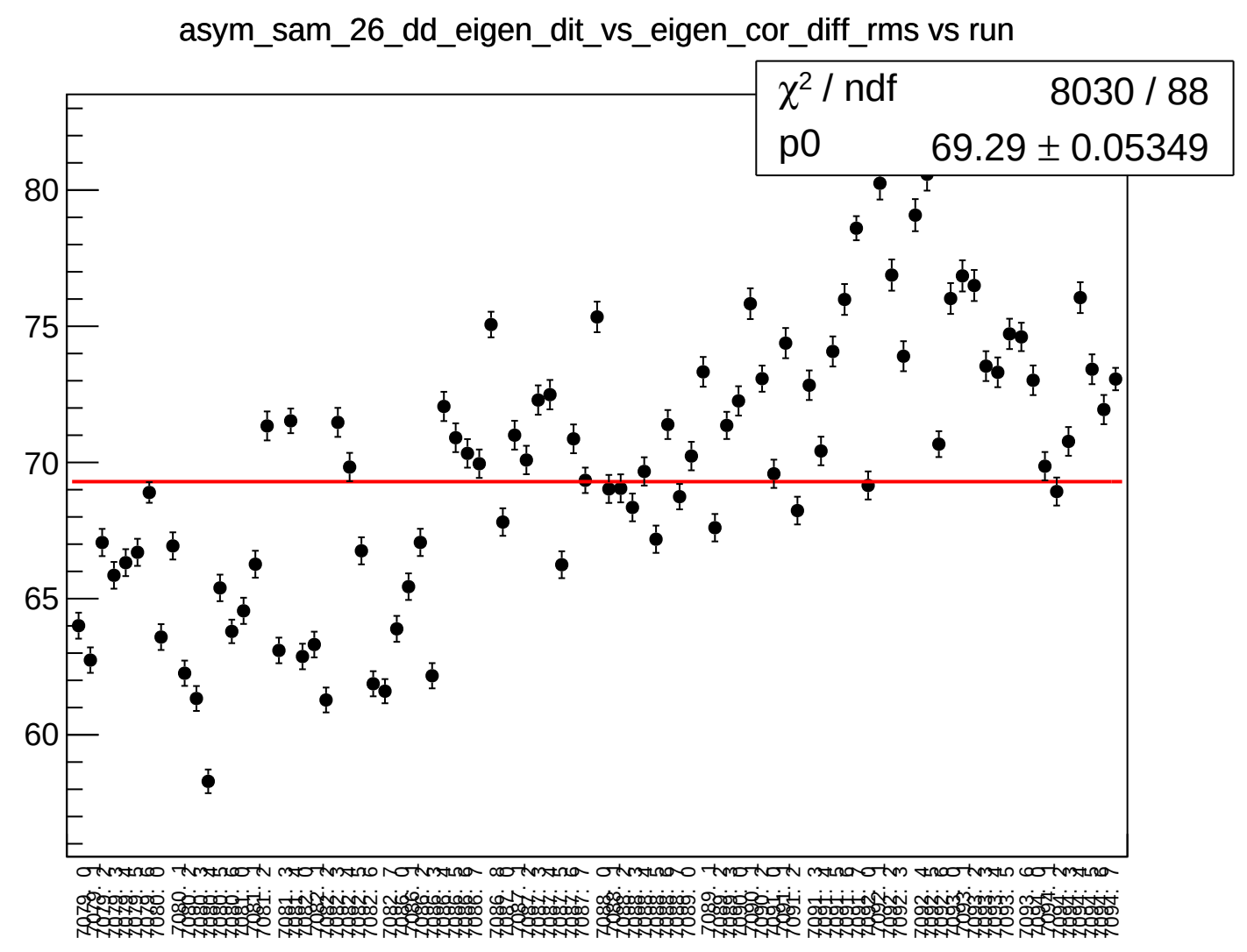

pull1D
Entries 89
Mean −0.005517
Std Dev 0.8887

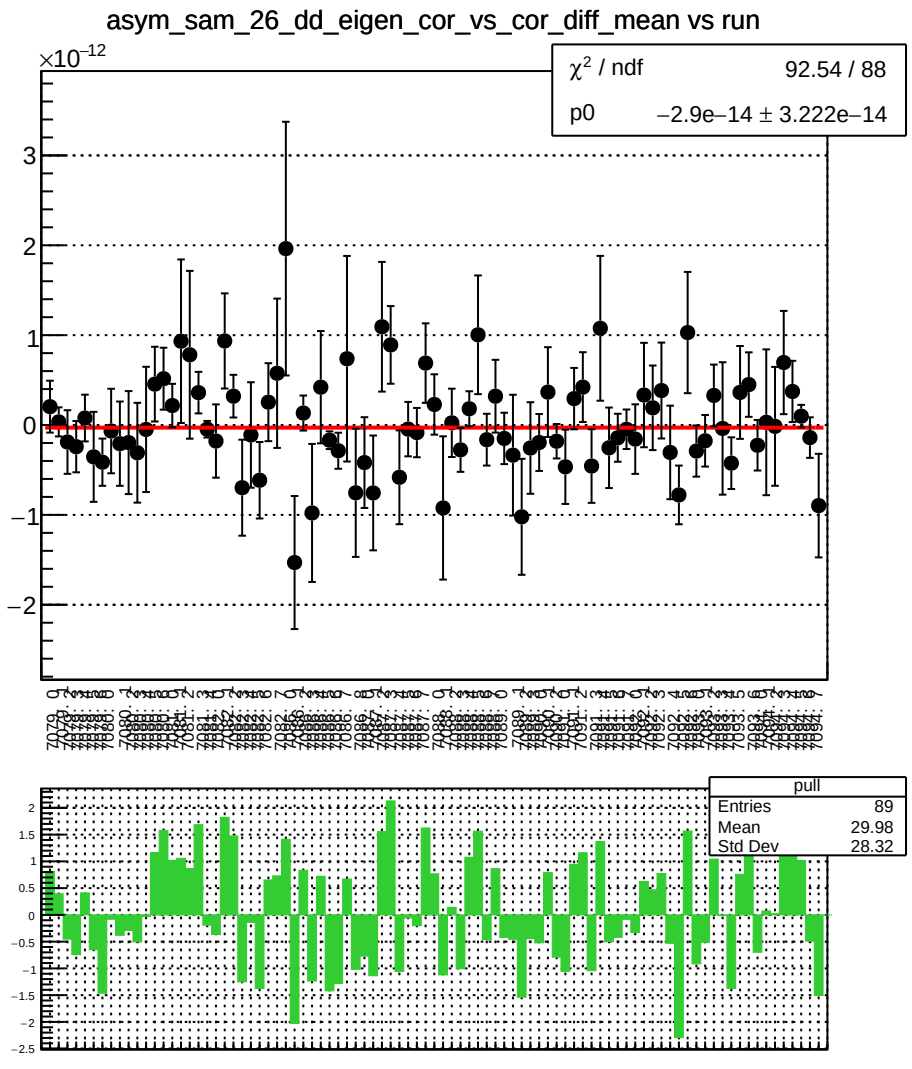

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.44e+04 / 88
p0 0.006945 ± 5.371e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

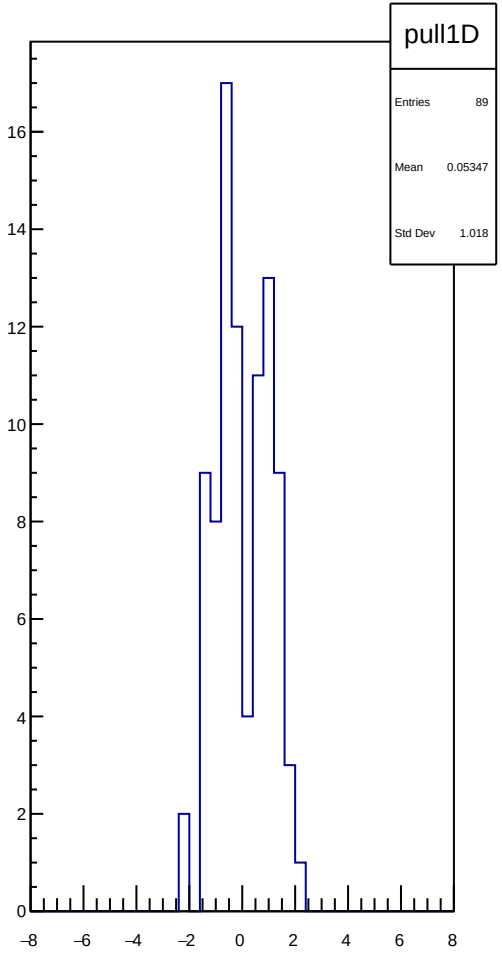

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.72 / 88
p0 −0.0895 ± 0.07565
pull
Entries 89
Mean −13.92
Std Dev 0
pull1D
Entries 89
Mean 0.007621
Std Dev 0.9464

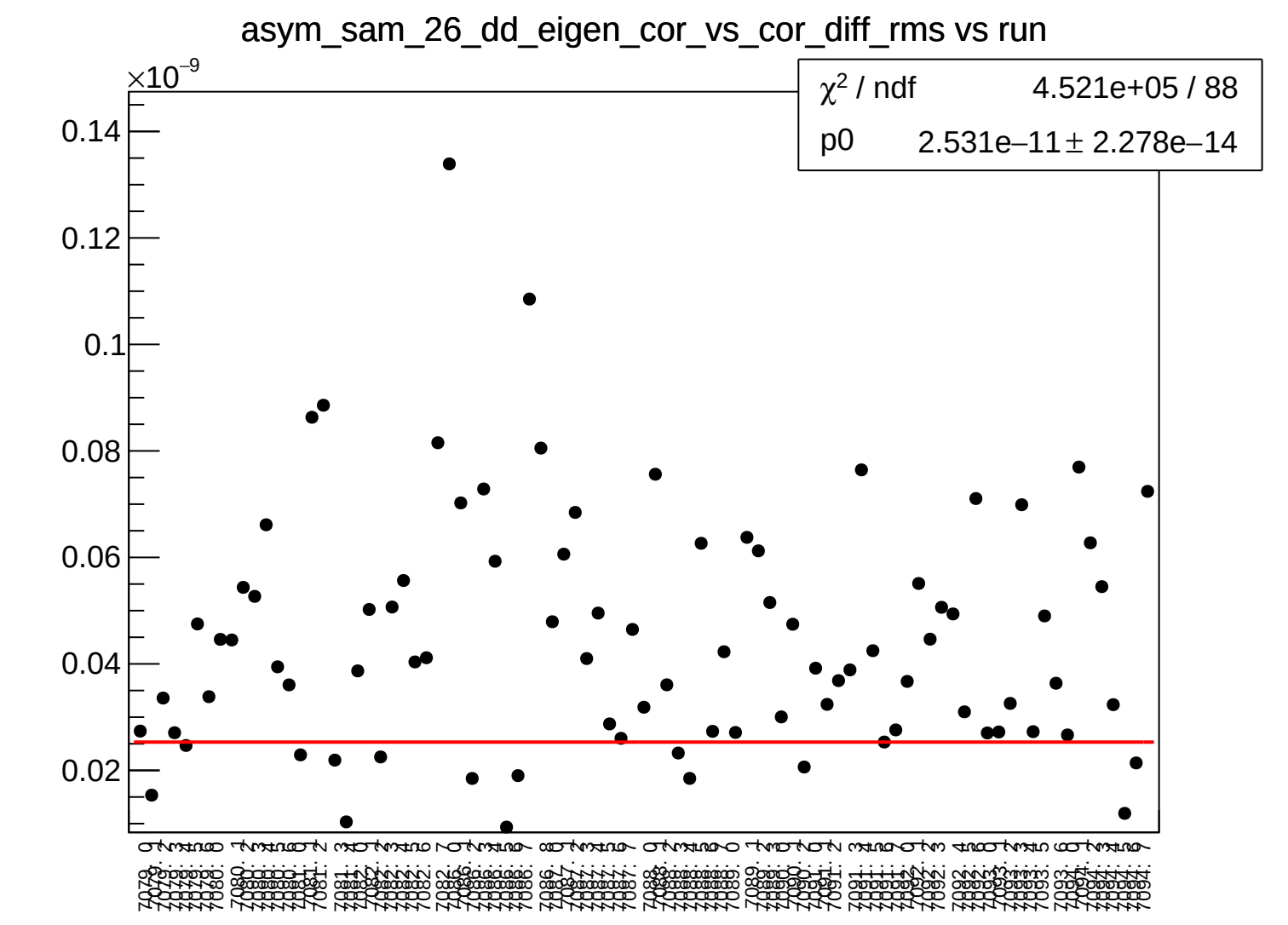

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8030 / 88
p0 69.29 ± 0.05349
80
75
70
65
60

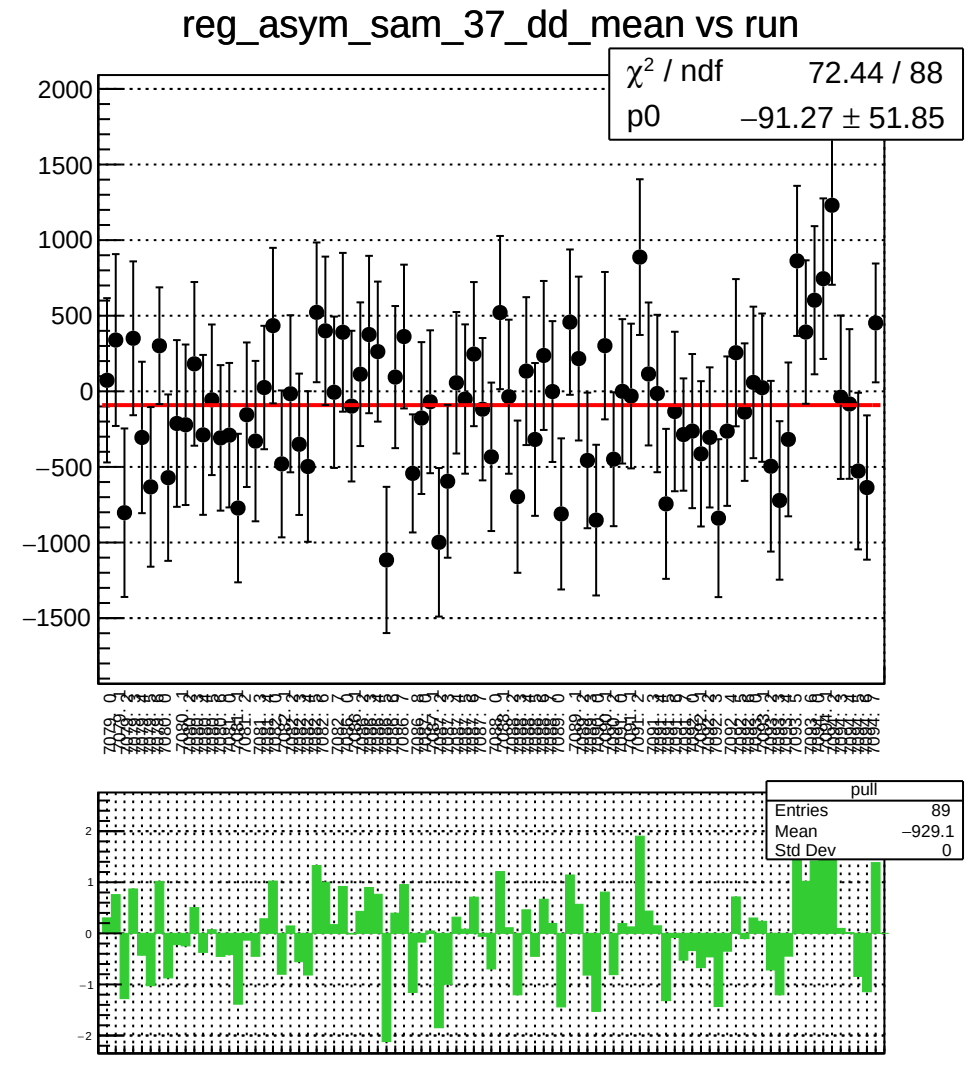

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 79.72 / 88
p0 −0.0895 ± 0.07565
pull
Entries 89
Mean −13.92
Std Dev 0
pull1D
Entries 89
Mean 0.007621
Std Dev 0.9464

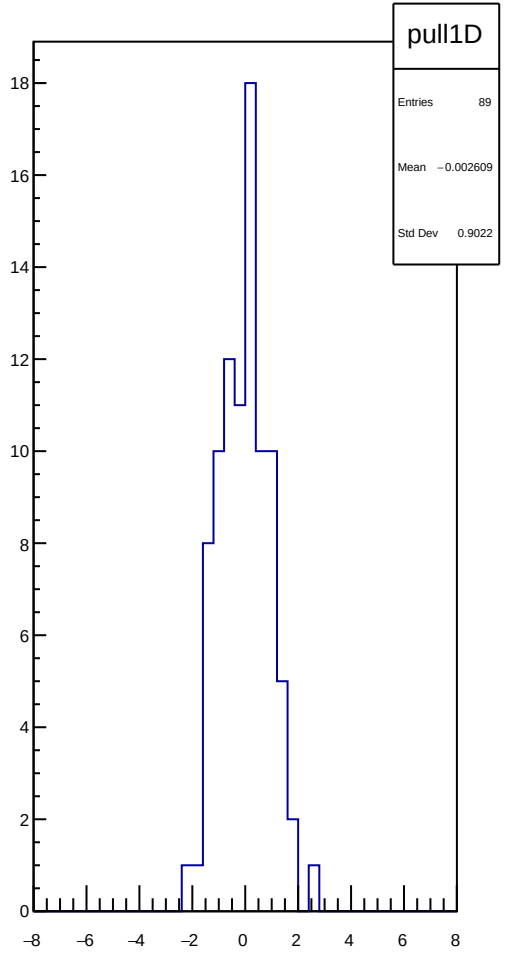

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8030 / 88
p0 69.29 ± 0.05349
80
75
70
65
60

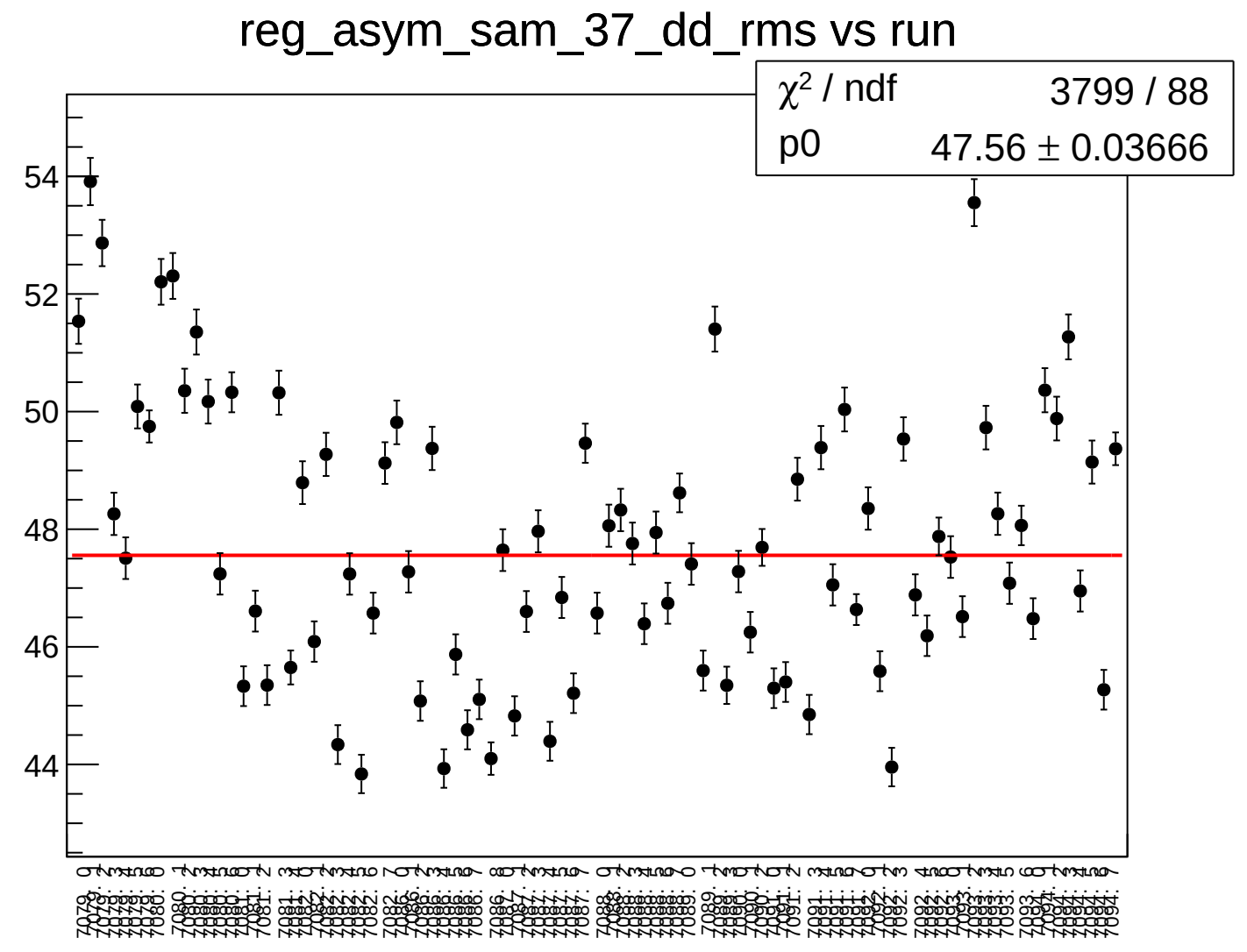

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.54 / 88
p0 −2.9e−14 ± 3.222e−14
pull
Entries 89
Mean 29.98
Std Dev 28.32

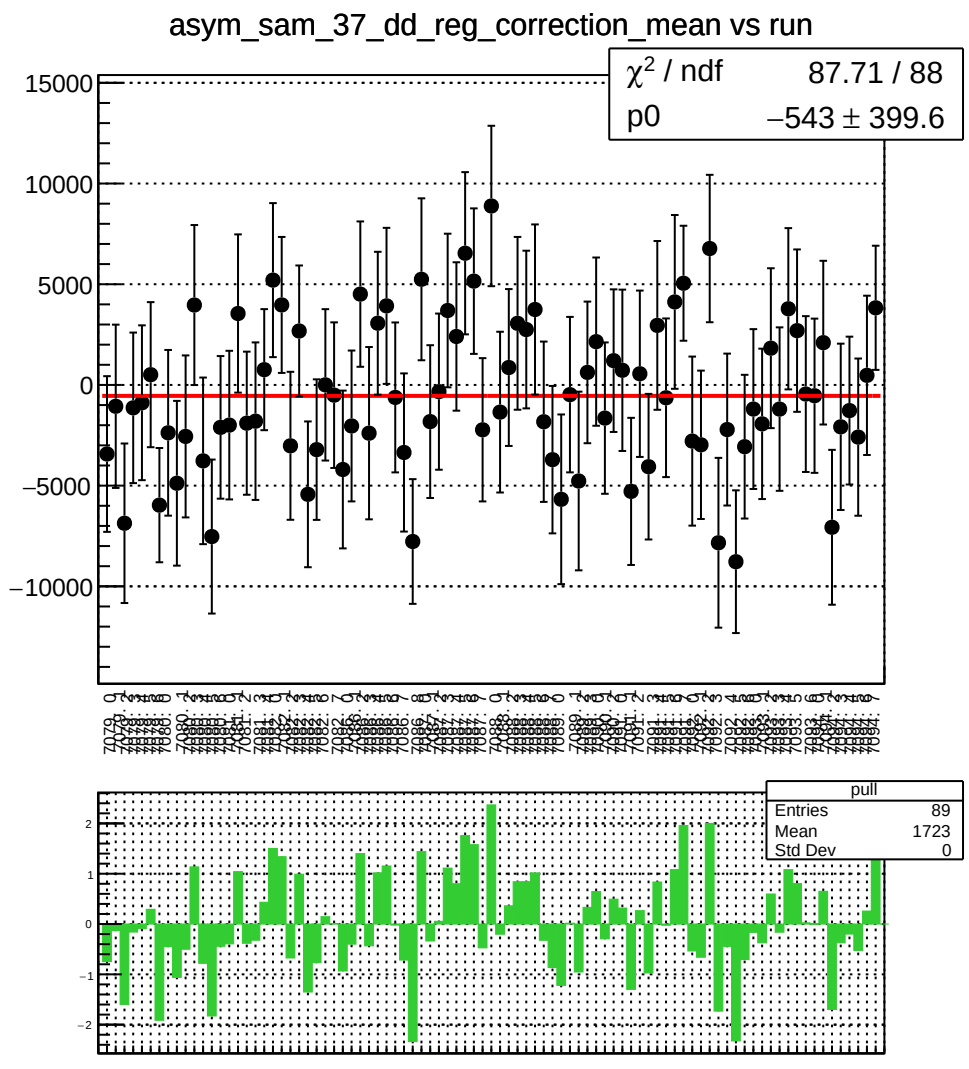

pull1D
Entries 89
Mean 0.05347
Std Dev 1.018

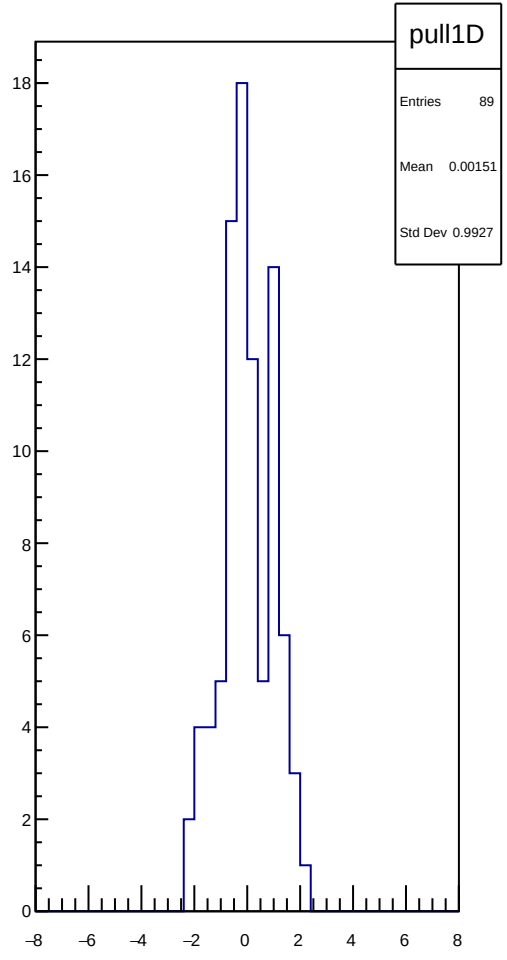

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.521e+05 / 88
p0 2.531e−11 ± 2.278e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

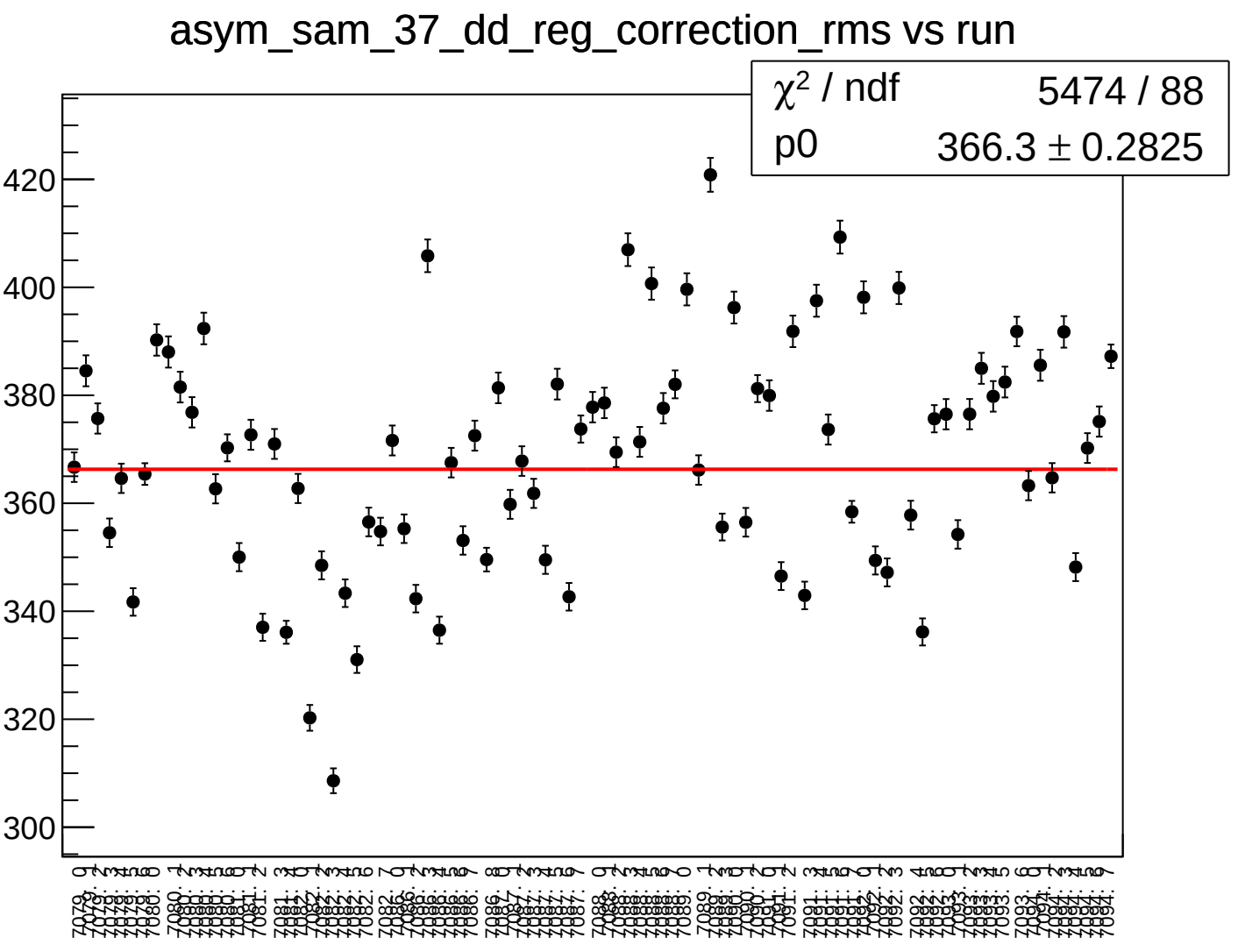

reg_asym_sam_37_dd_mean vs run
χ² / ndf 72.44 / 88
p0 −91.27 ± 51.85
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −929.1
Std Dev 0
2
1
0
−1
−2

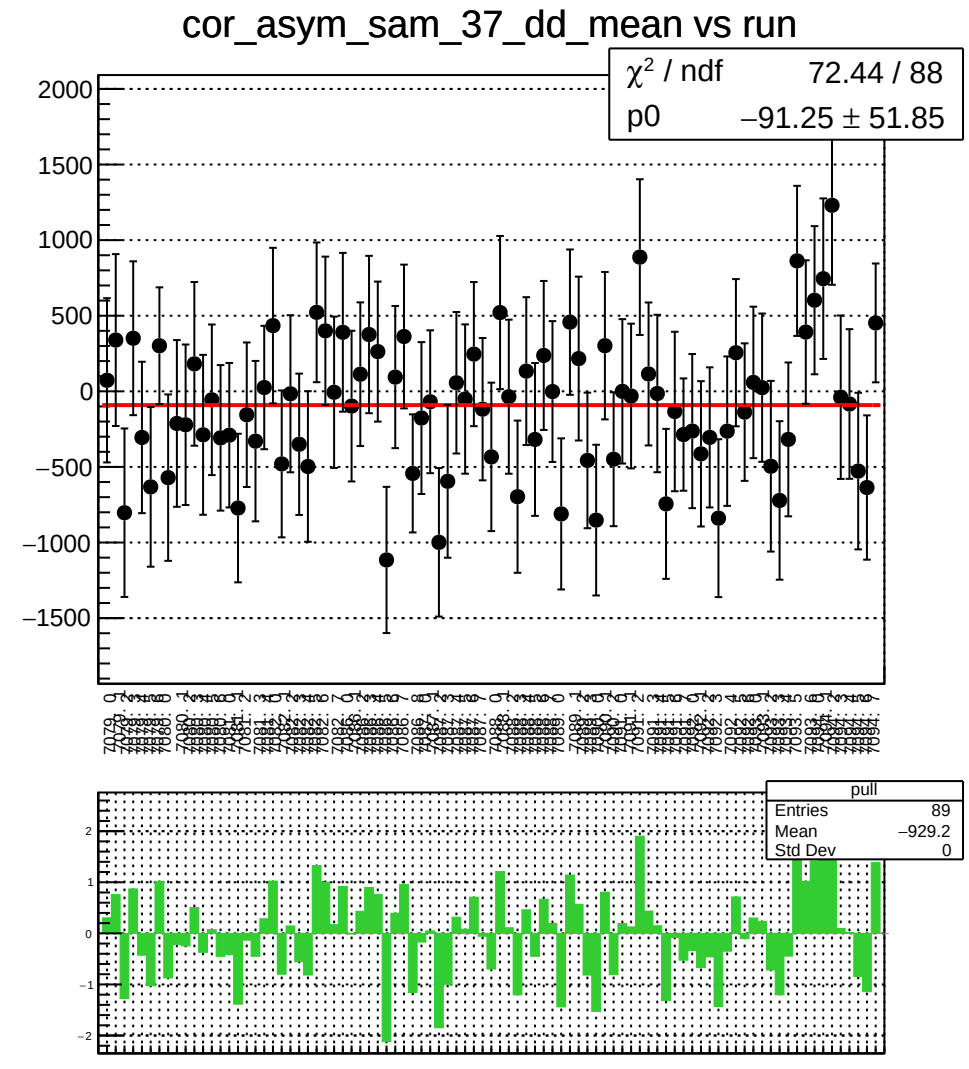

pull1D
Entries 89
Mean −0.002609
Std Dev 0.9022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

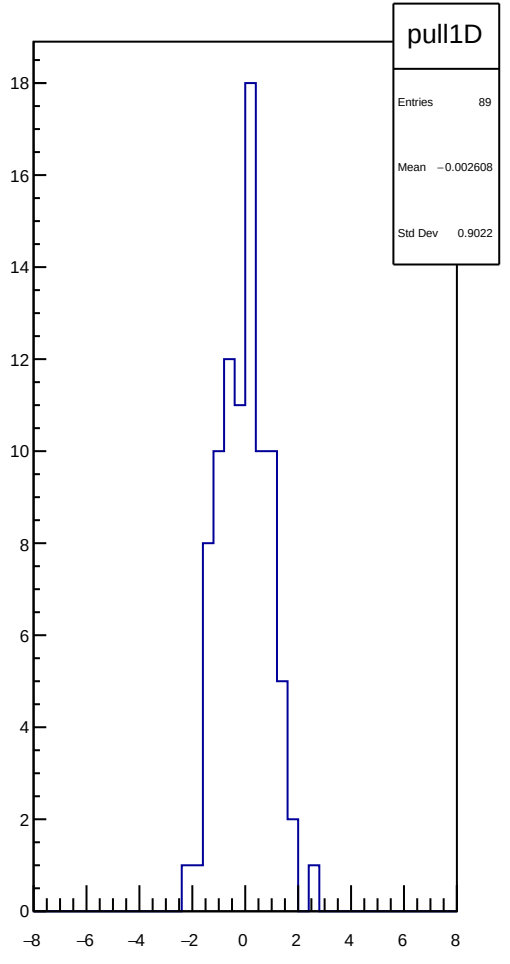

reg_asym_sam_37_dd_rms vs run
χ² / ndf 3799 / 88
p0 47.56 ± 0.03666
54
52
50
48
46
44

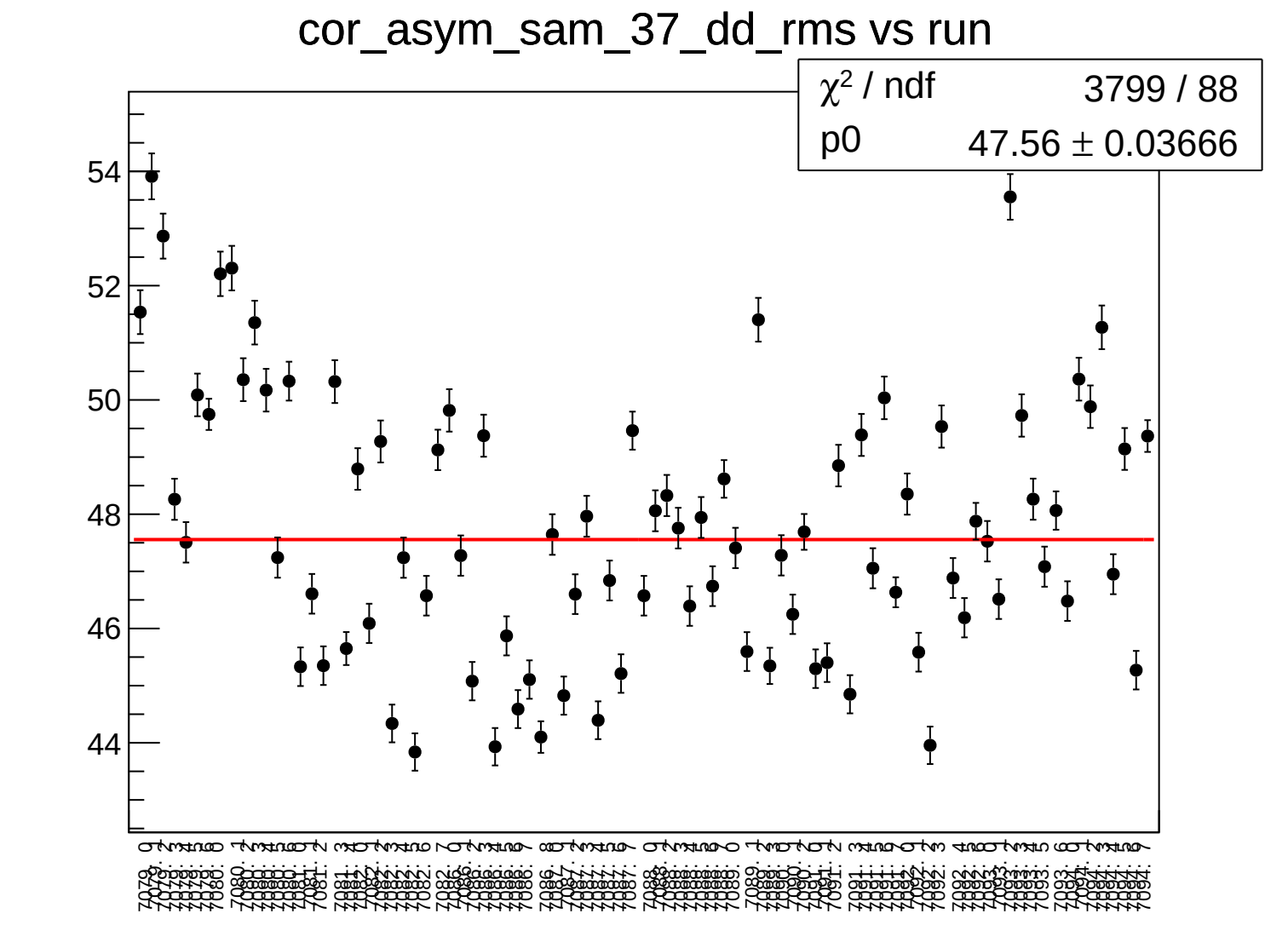

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 87.71 / 88
p0 −543 ± 399.6
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1723
Std Dev 0
2
1
0
−1
−2

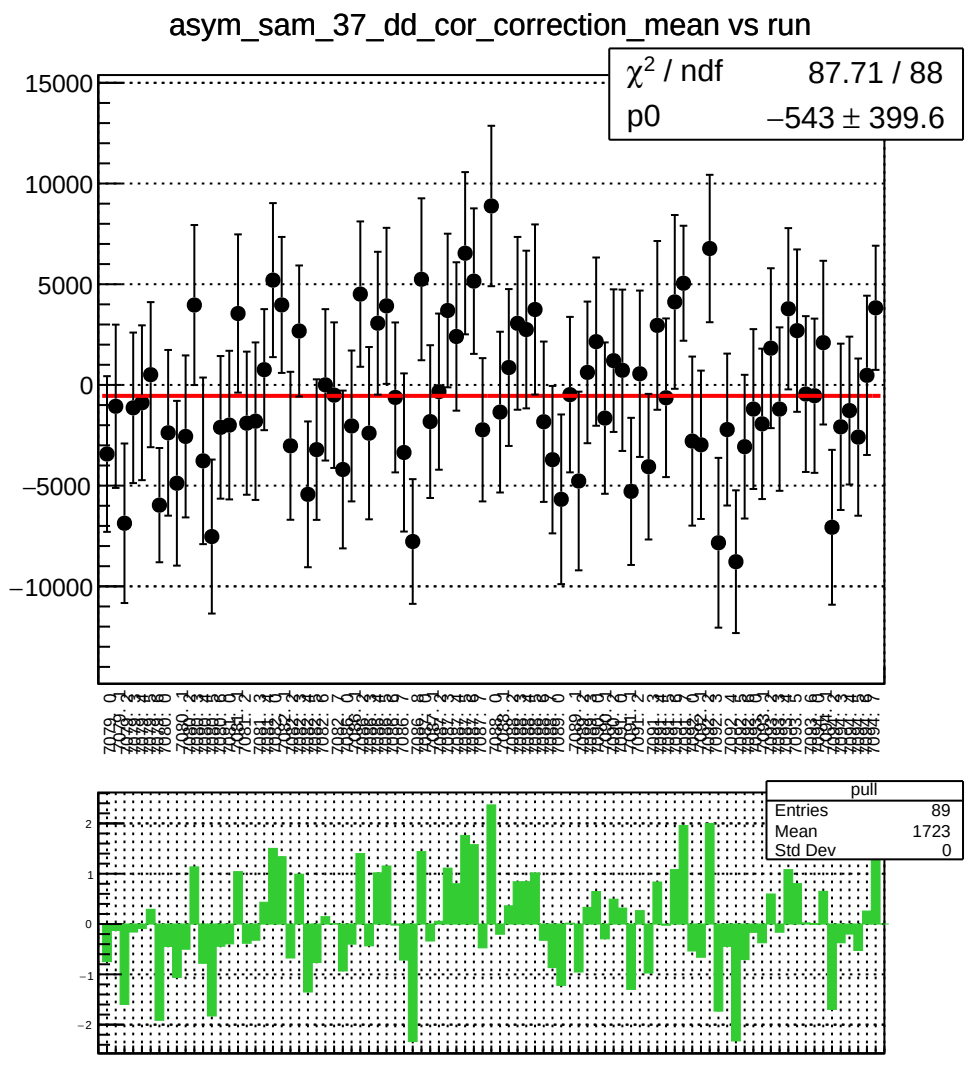

pull1D
Entries 89
Mean 0.00151
Std Dev 0.9927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

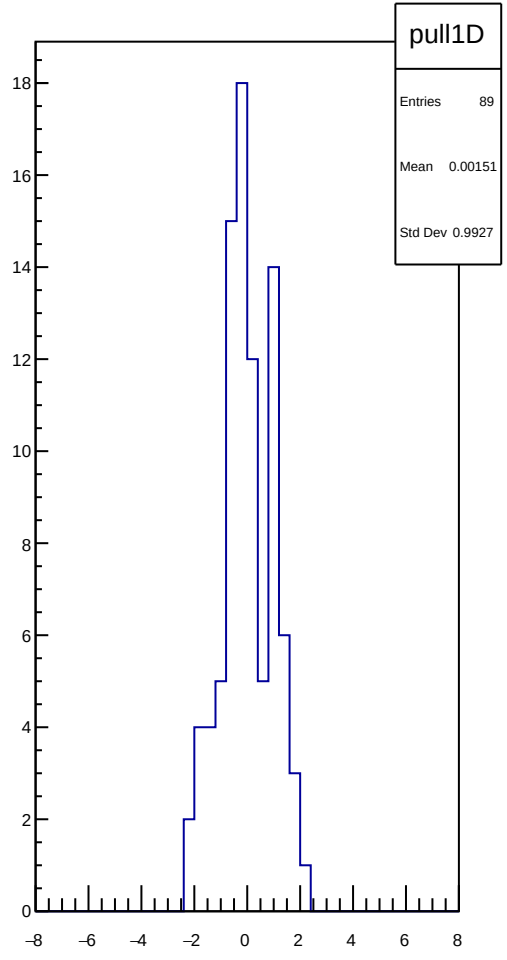

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 5474 / 88
p0 366.3 ± 0.2825
420
400
380
360
340
320
300

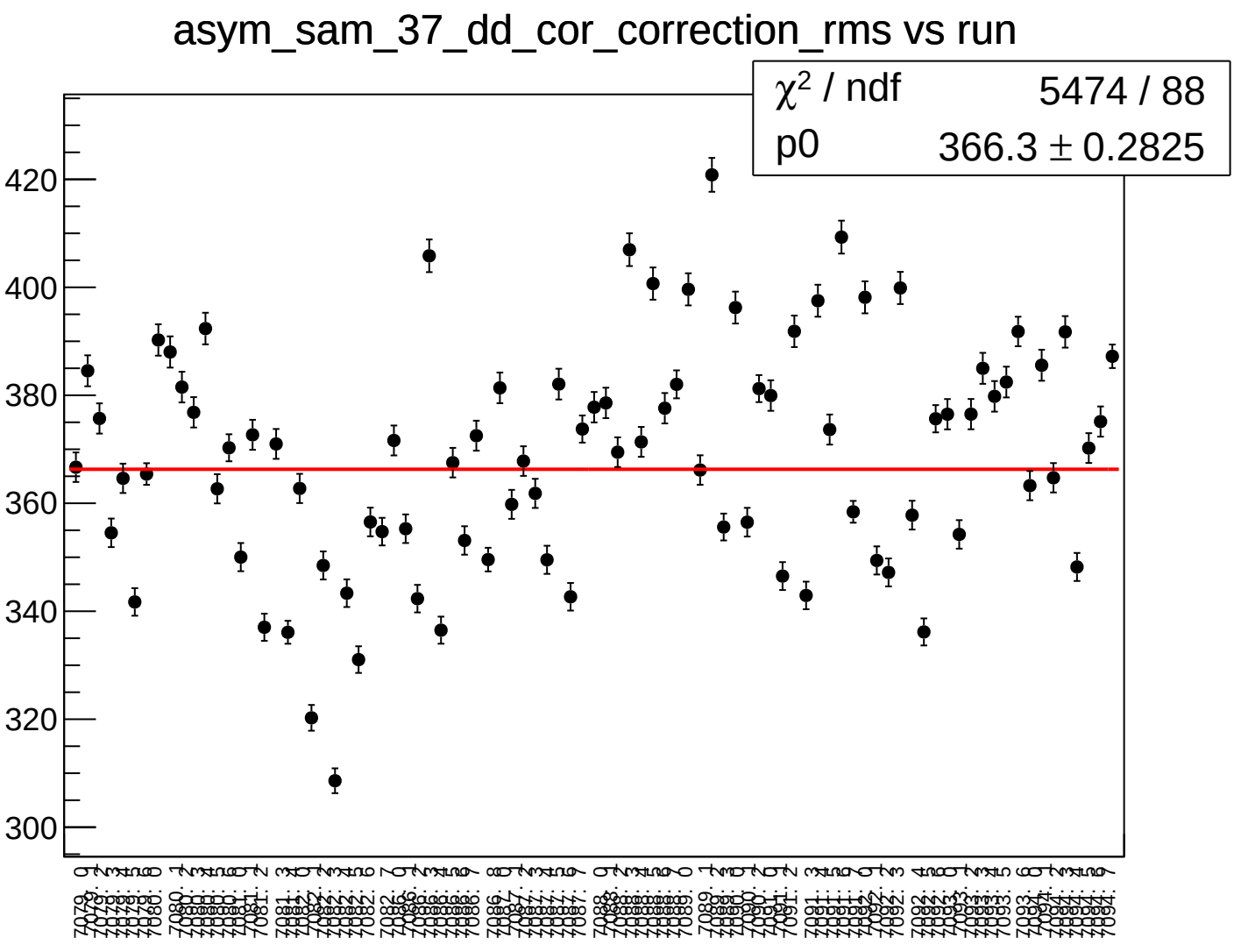

cor_asym_sam_37_dd_mean vs run
χ² / ndf 72.44 / 88
p0 −91.25 ± 51.85
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −929.2
Std Dev 0
2
1
0
−1
−2

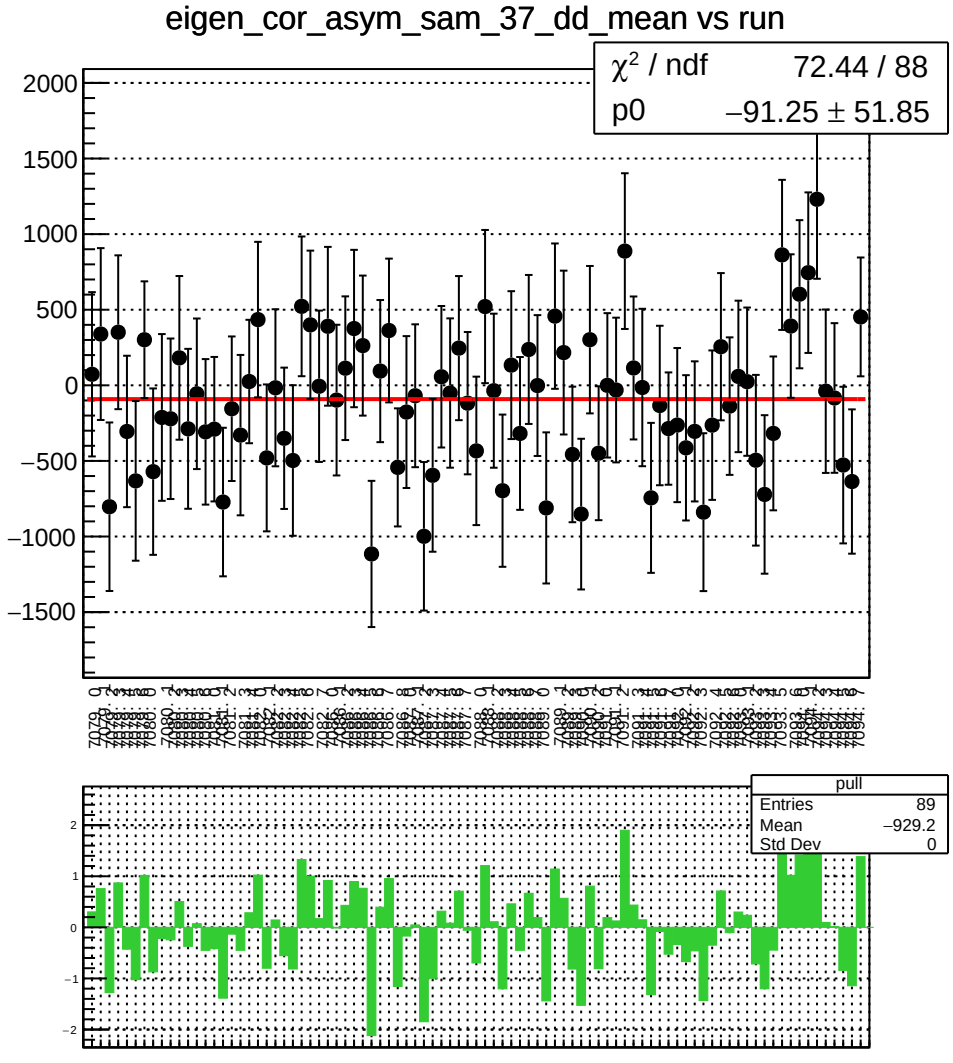

pull1D
Entries 89
Mean −0.002608
Std Dev 0.9022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

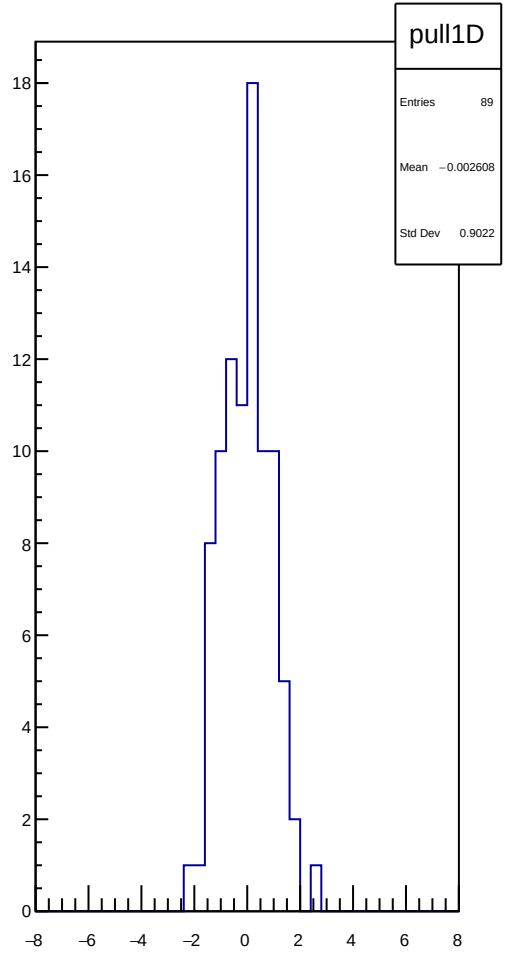

cor_asym_sam_37_dd_rms vs run
χ² / ndf 3799 / 88
p0 47.56 ± 0.03666
54
52
50
48
46
44

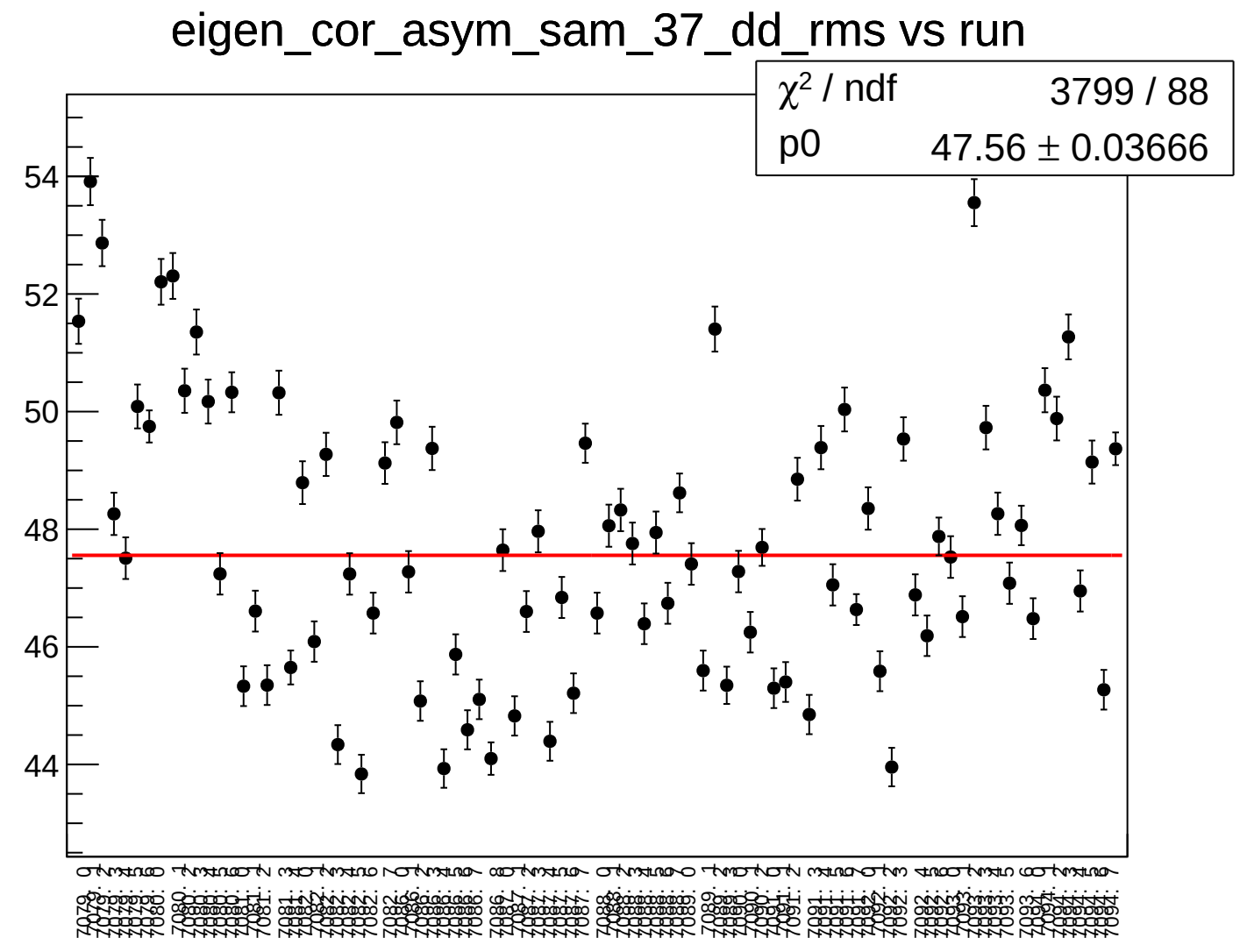

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 87.71 / 88
p0 −543 ± 399.6
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1723
Std Dev 0
2
1
0
−1
−2

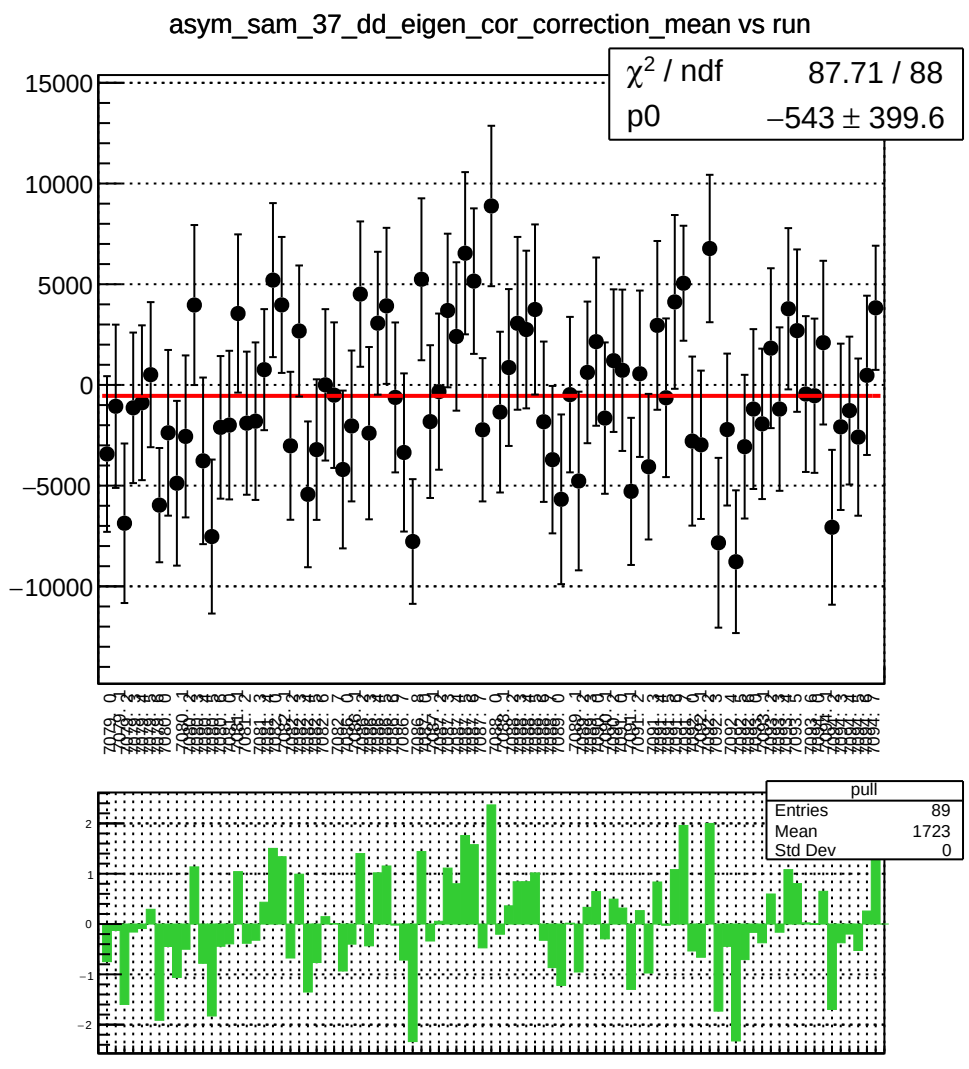

pull1D
Entries 89
Mean 0.00151
Std Dev 0.9927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

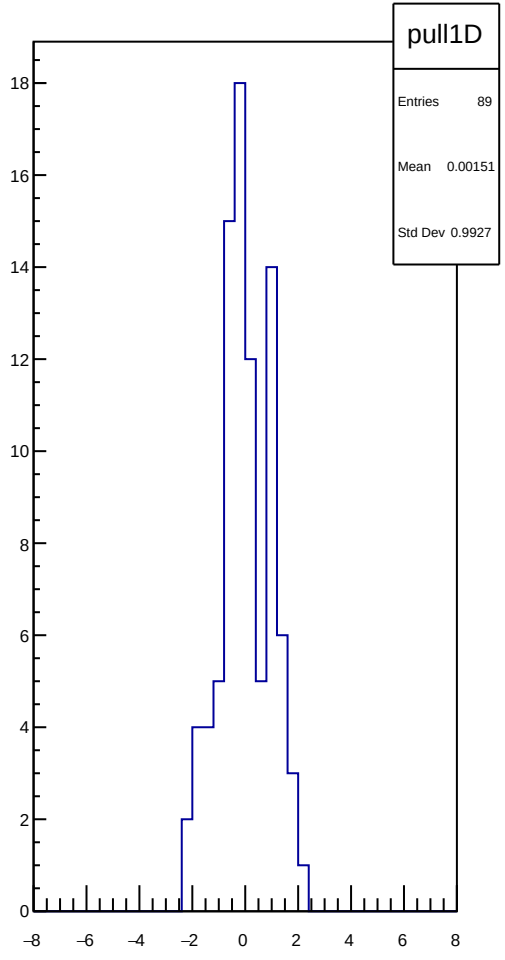

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 5474 / 88
p0 366.3 ± 0.2825
420
400
380
360
340
320
300

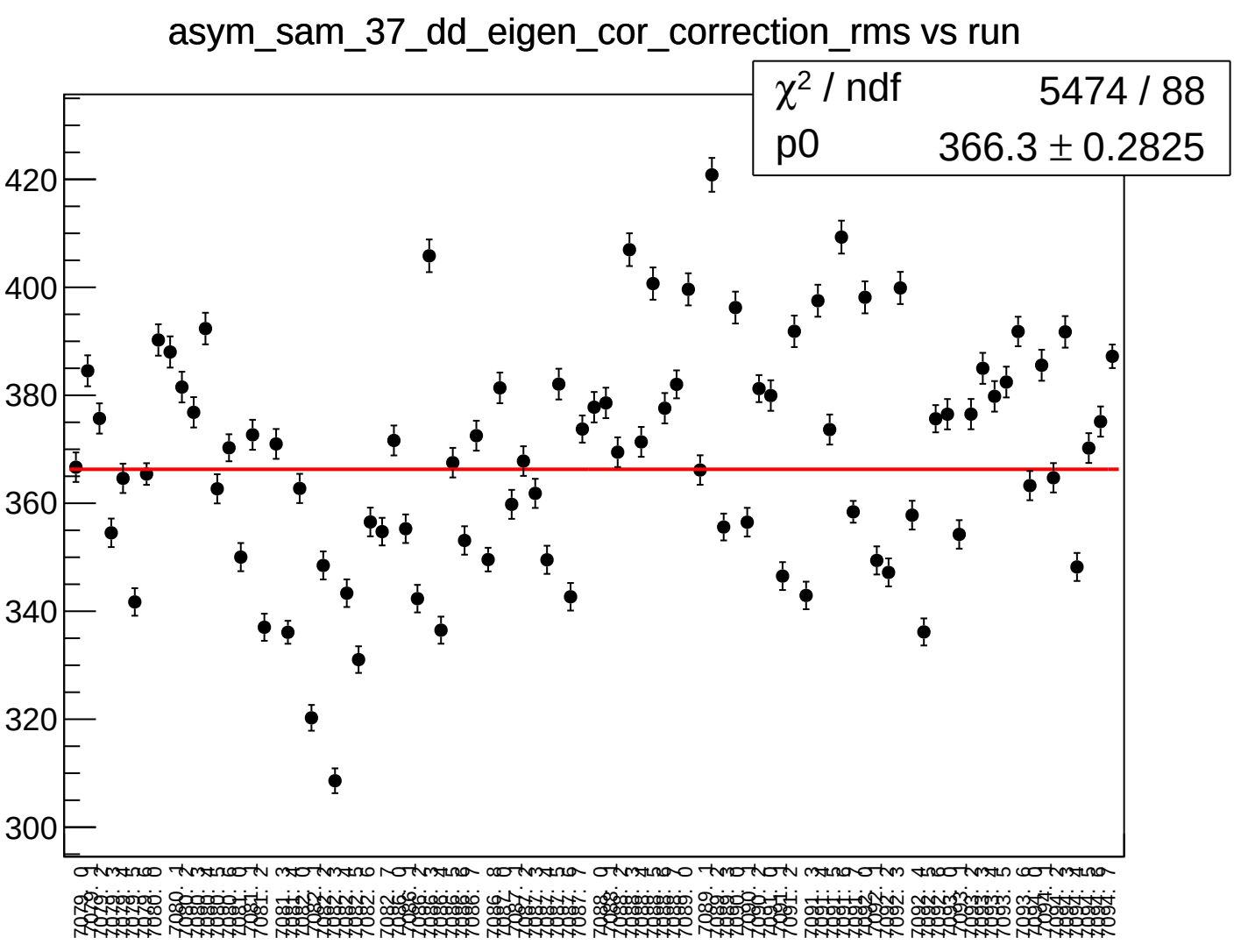

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 72.44 / 88
p0 −91.25 ± 51.85
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −929.2
Std Dev 0
2
1
0
−1
−2

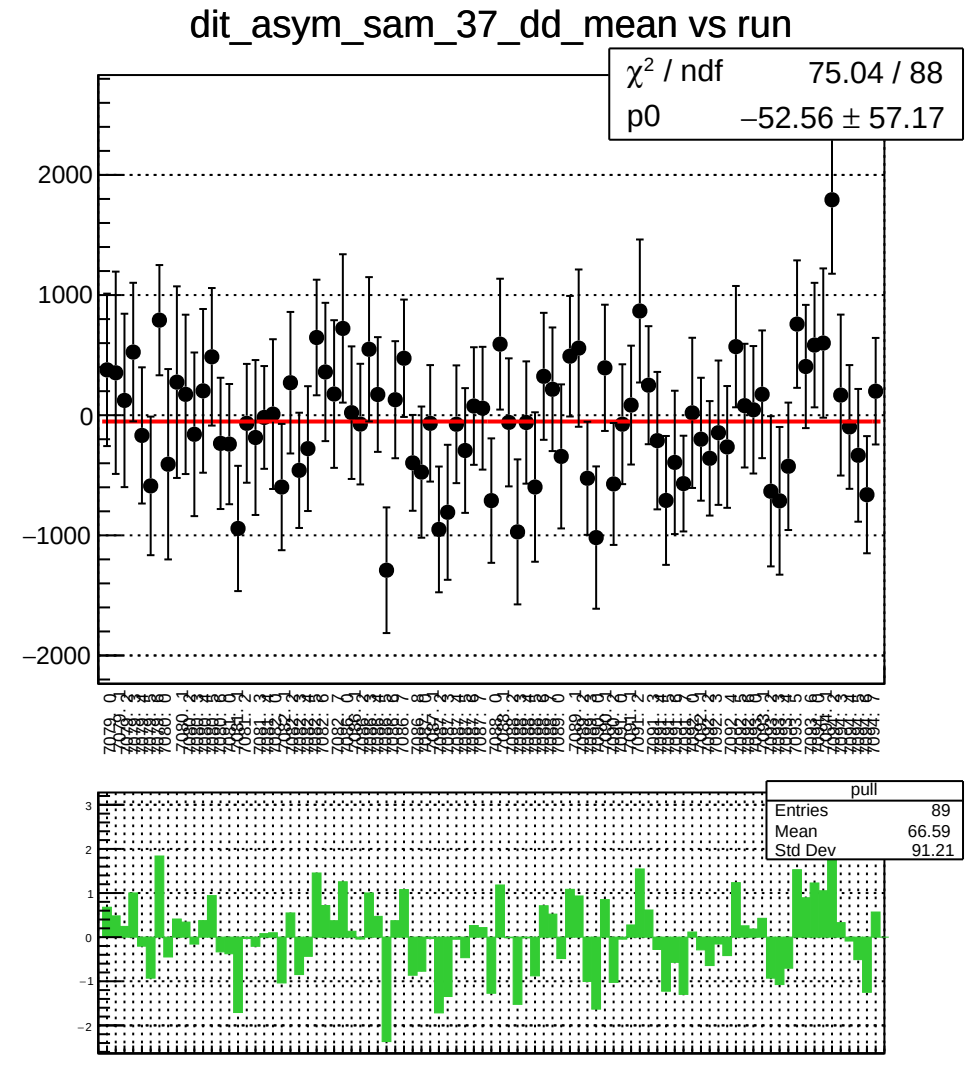

pull1D
Entries 89
Mean −0.002608
Std Dev 0.9022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

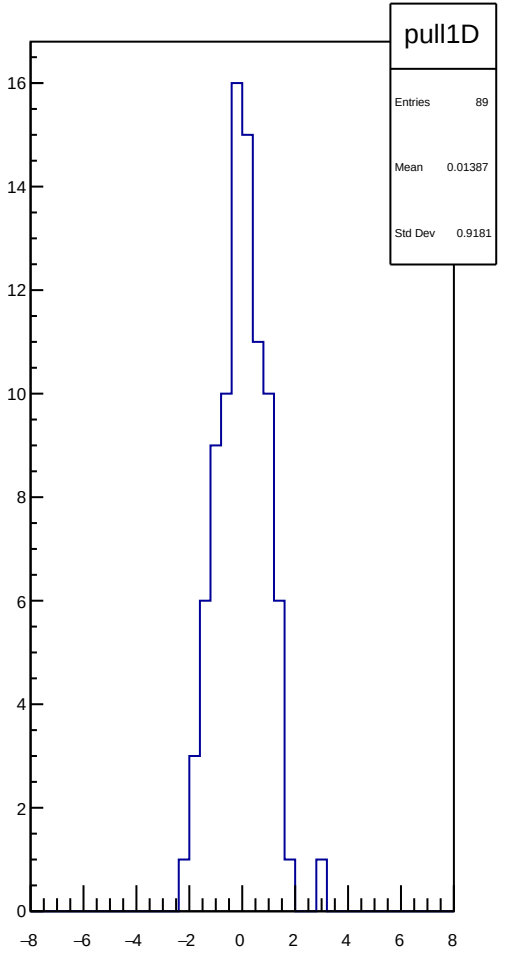

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 3799 / 88
p0 47.56 ± 0.03666
54
52
50
48
46
44

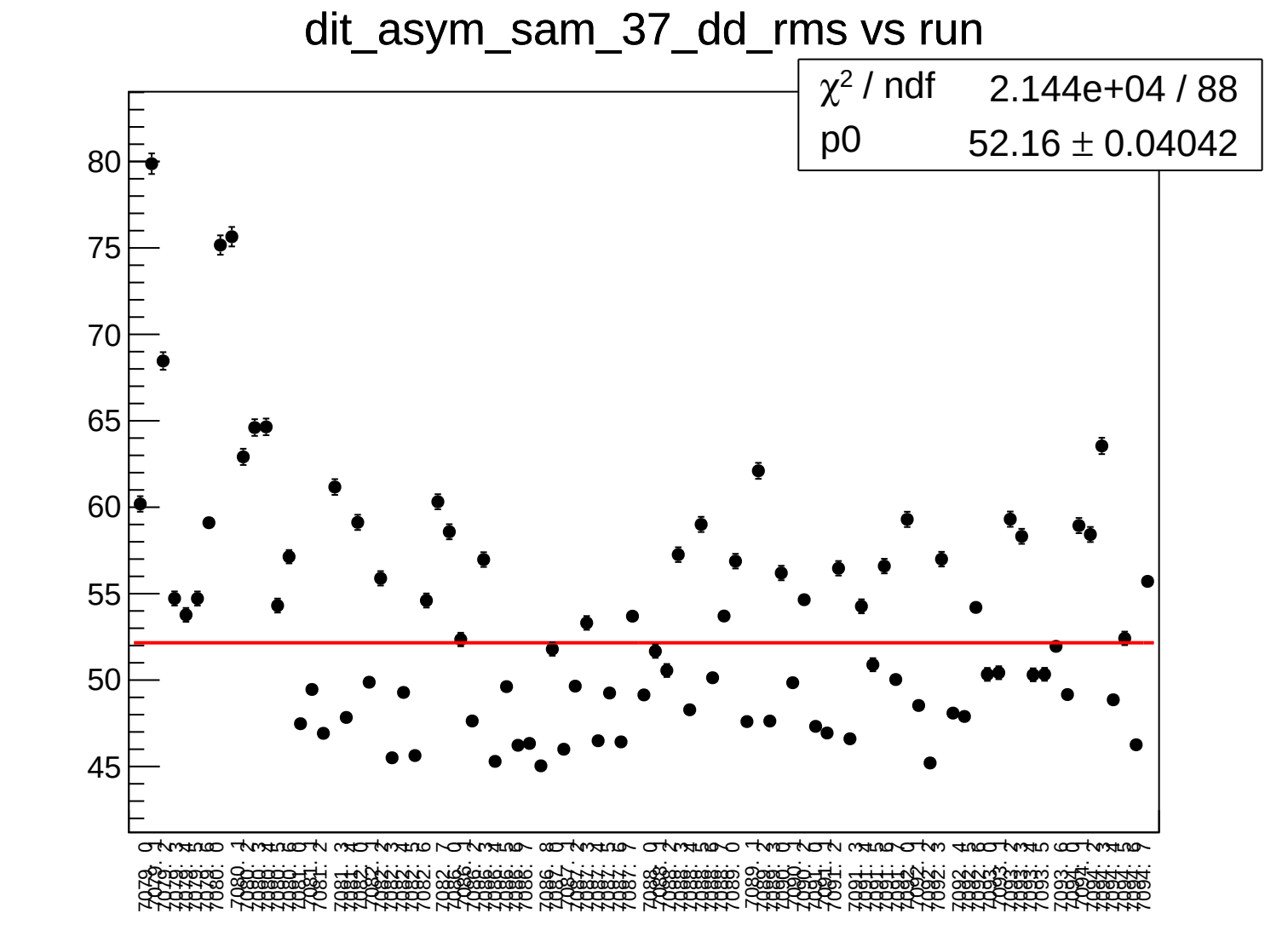

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.71 / 88
p0 −543 ± 399.6
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1723
Std Dev 0
2
1
0
−1
−2

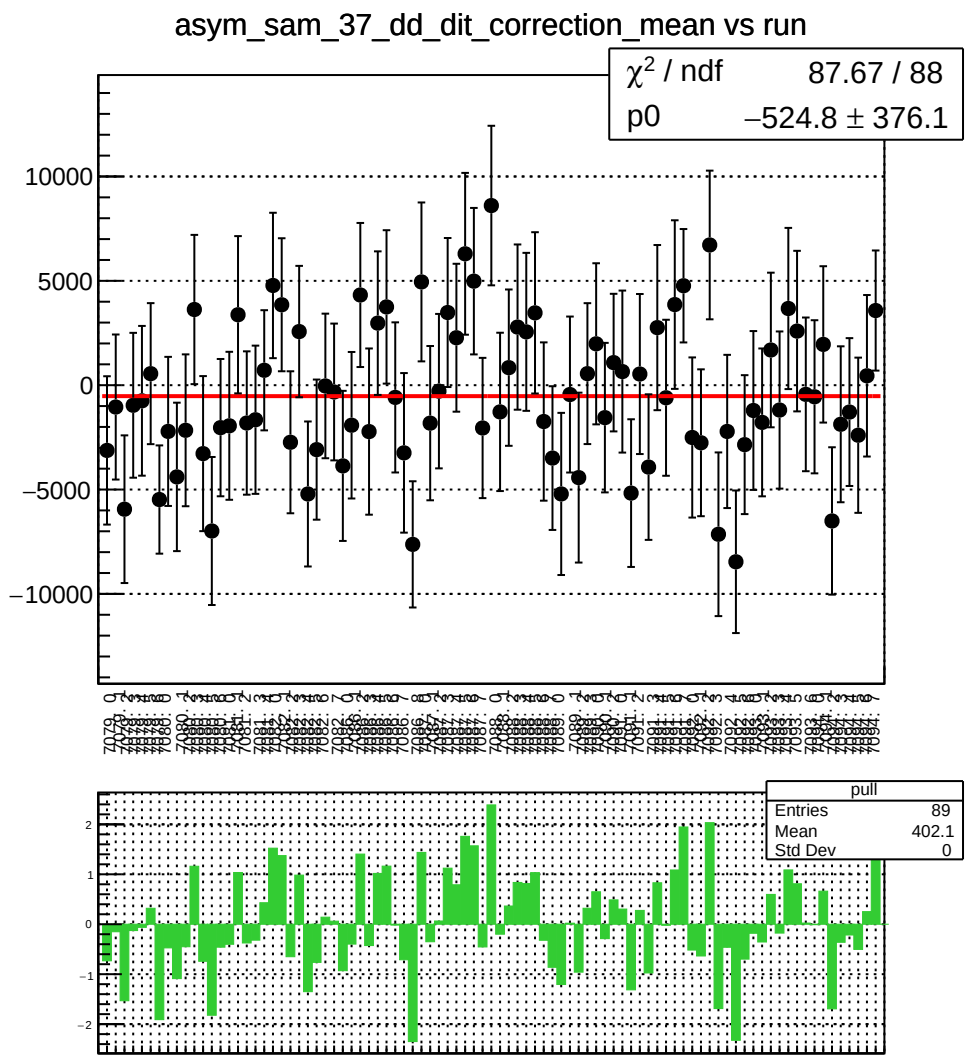

pull1D
Entries 89
Mean 0.00151
Std Dev 0.9927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

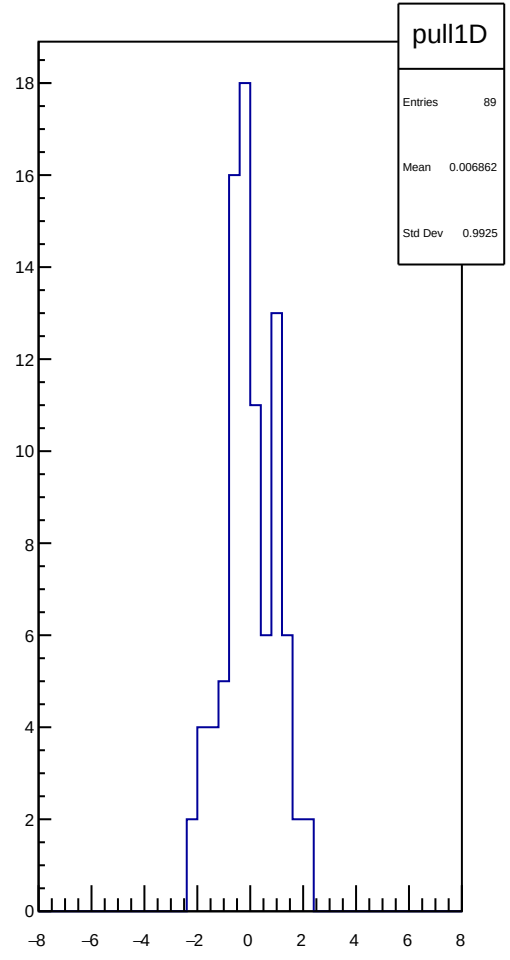

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5474 / 88
p0 366.3 ± 0.2825
420
400
380
360
340
320
300

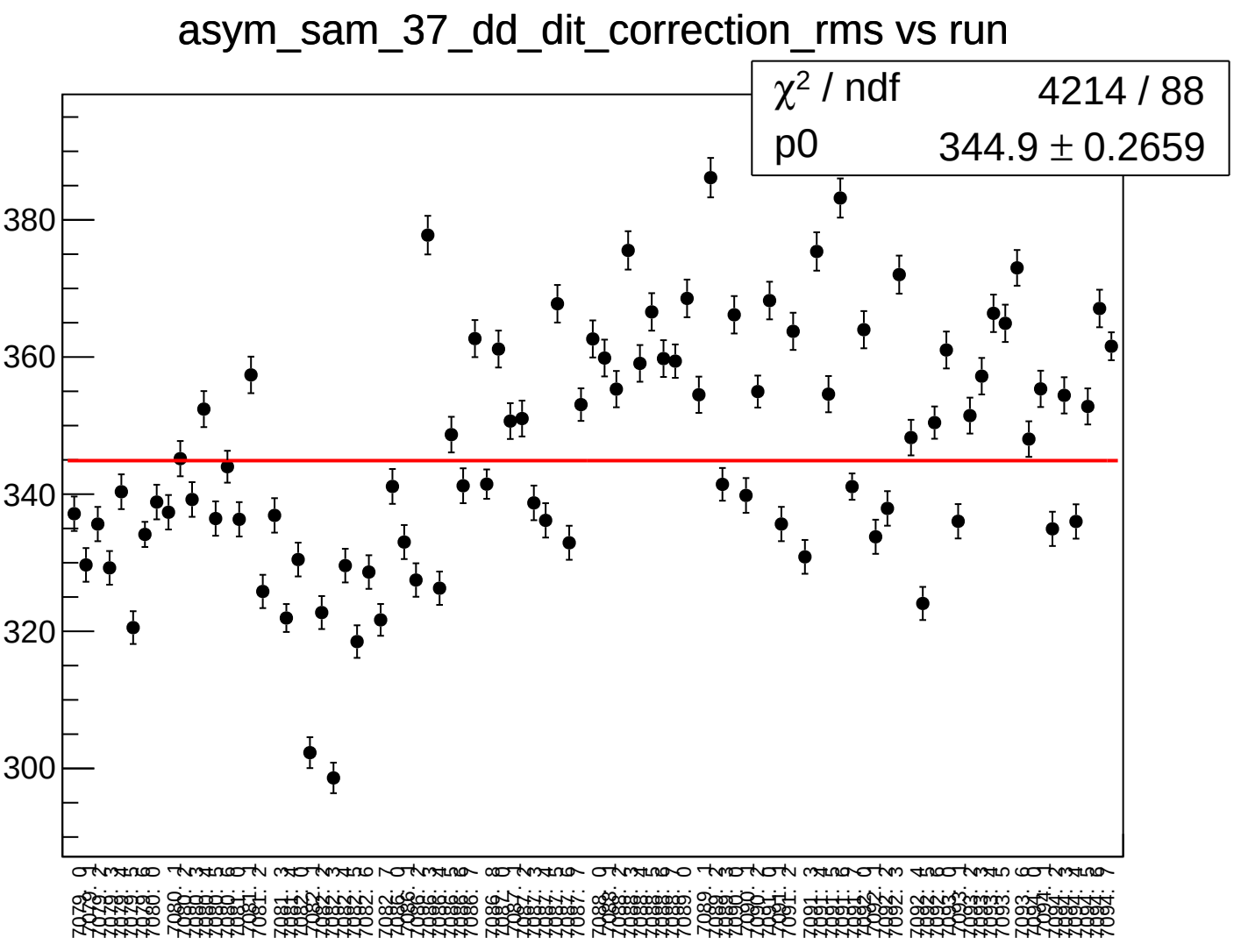

dit_asym_sam_37_dd_mean vs run
χ² / ndf 75.04 / 88
p0 −52.56 ± 57.17
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 66.59
Std Dev 91.21
3
2
1
0
−1
−2

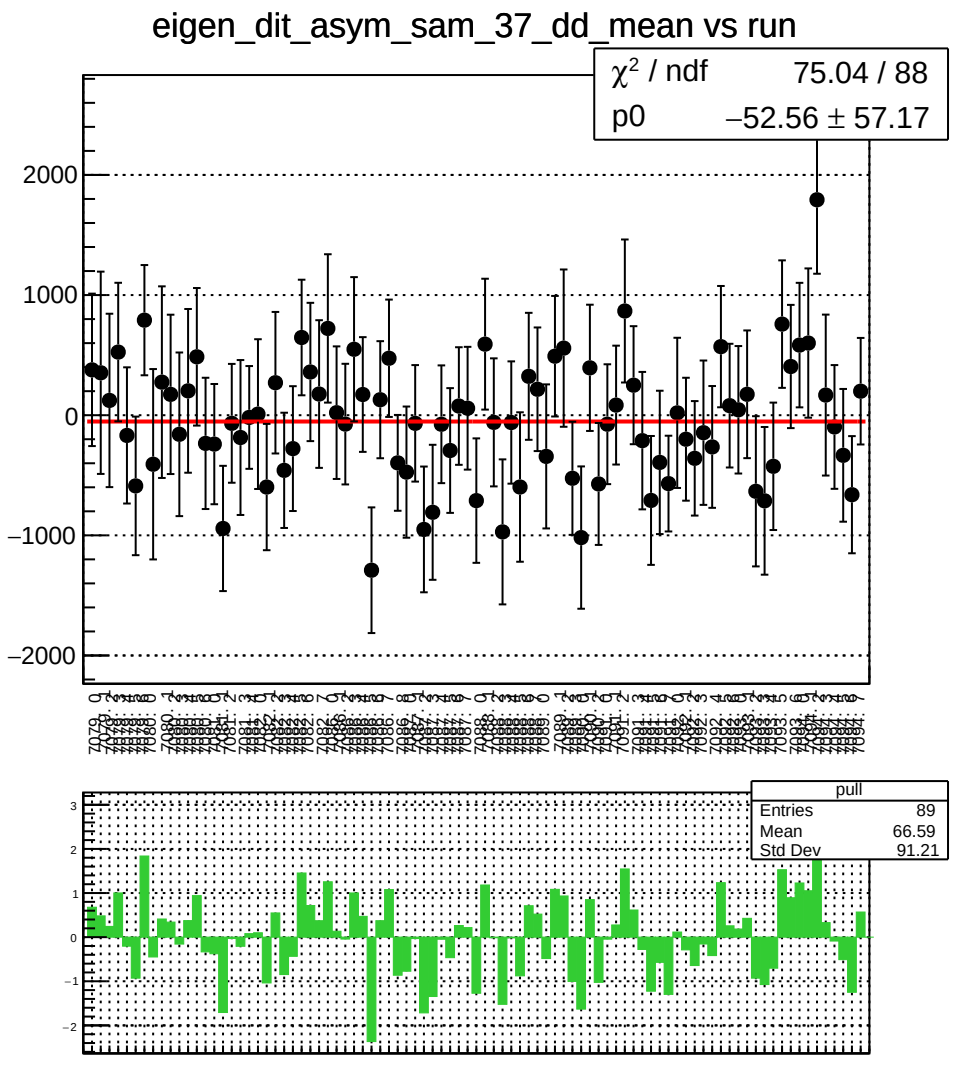

pull1D
Entries 89
Mean 0.01387
Std Dev 0.9181
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

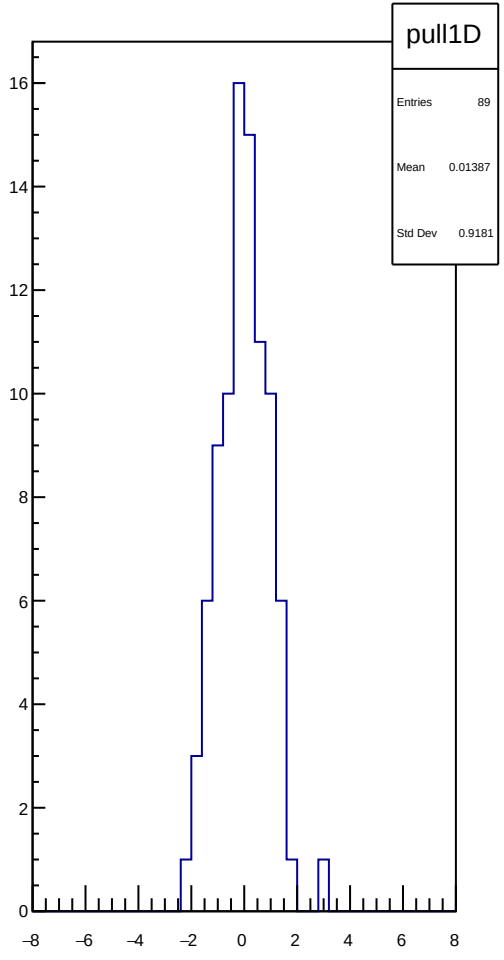

dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.144e+04 / 88
p0 52.16 ± 0.04042
80
75
70
65
60
55
50
45

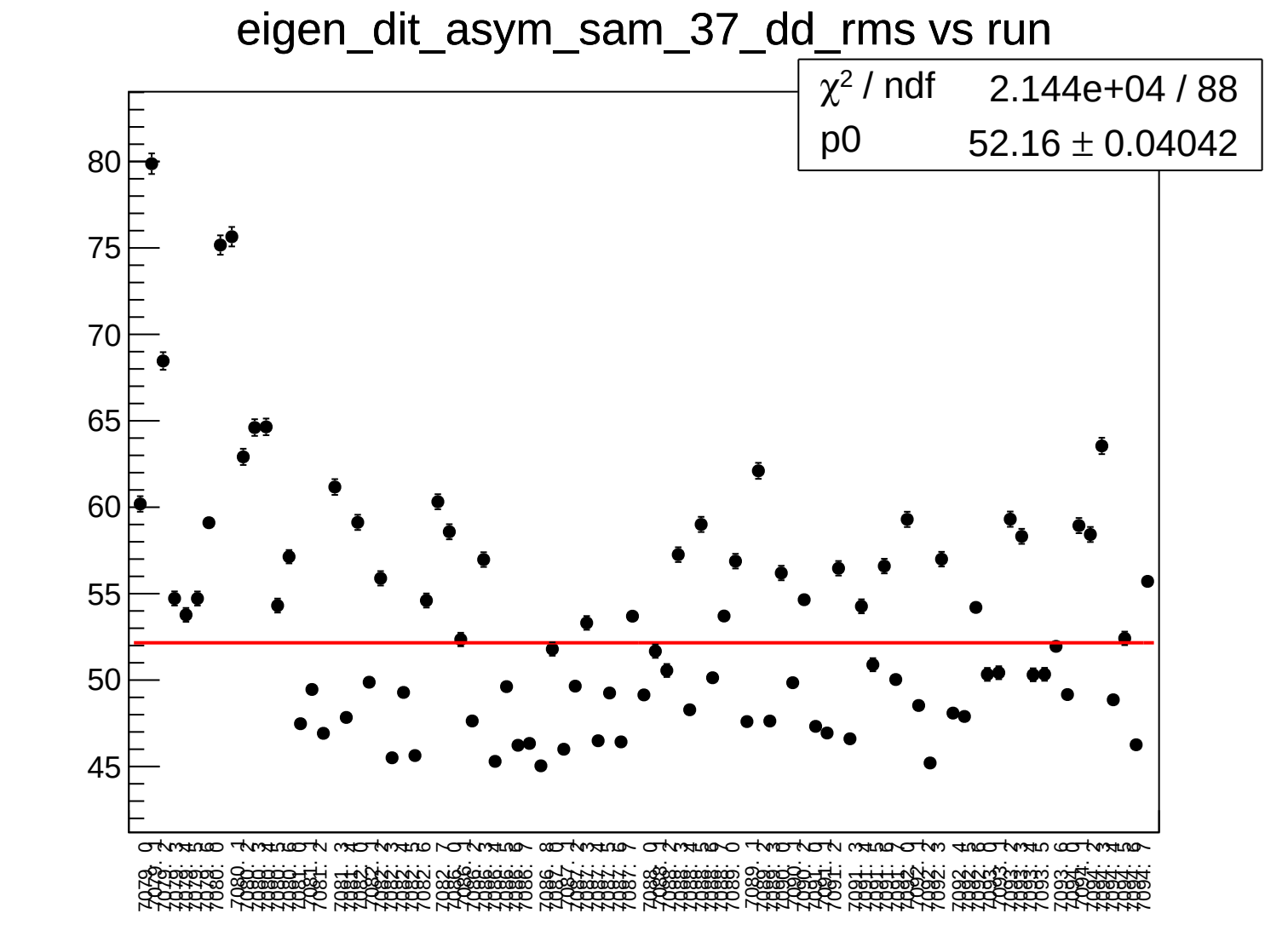

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 87.67 / 88
p0 −524.8 ± 376.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 402.1
Std Dev 0
2
1
0
−1
−2

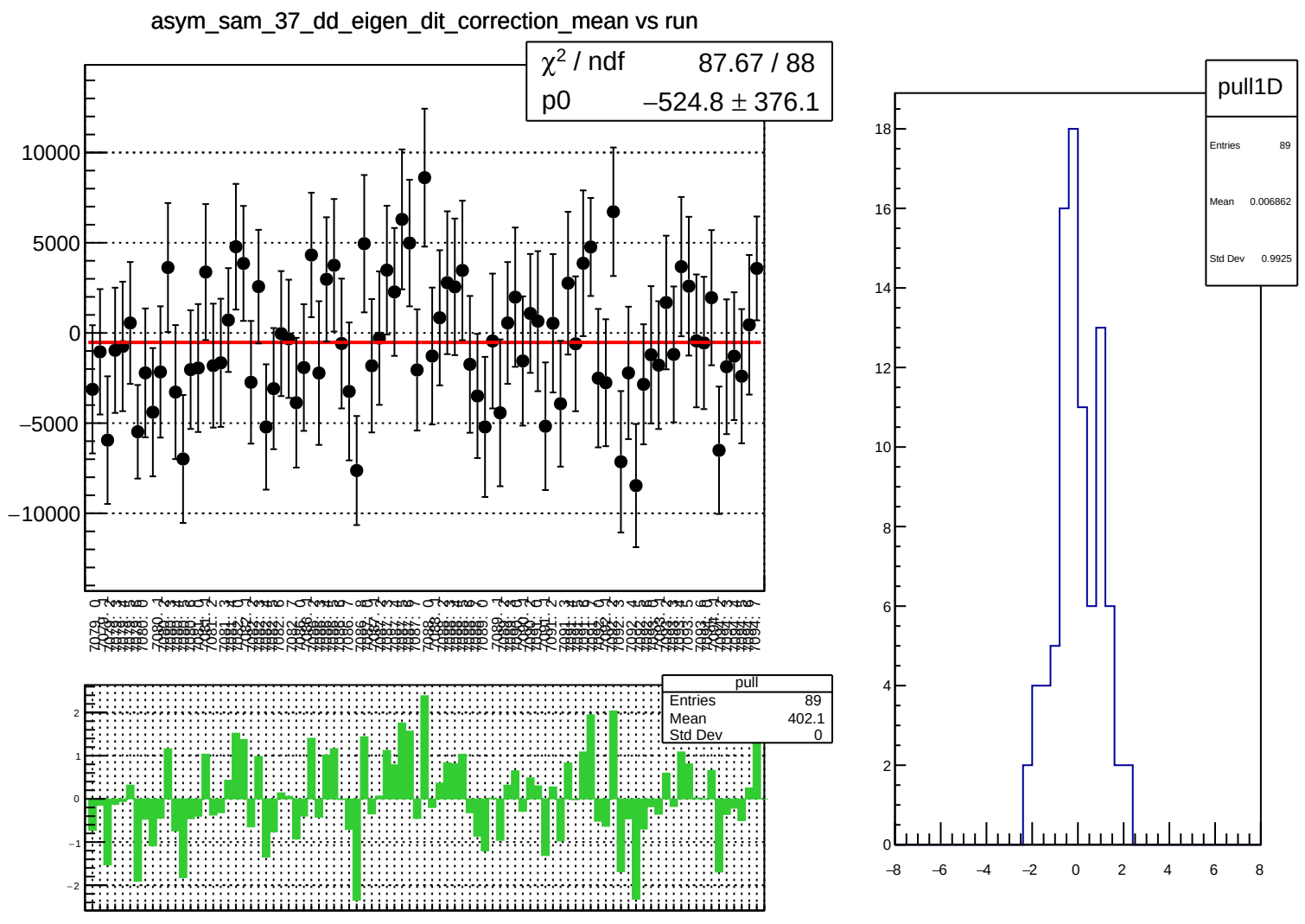

pull1D
Entries 89
Mean 0.006862
Std Dev 0.9925
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

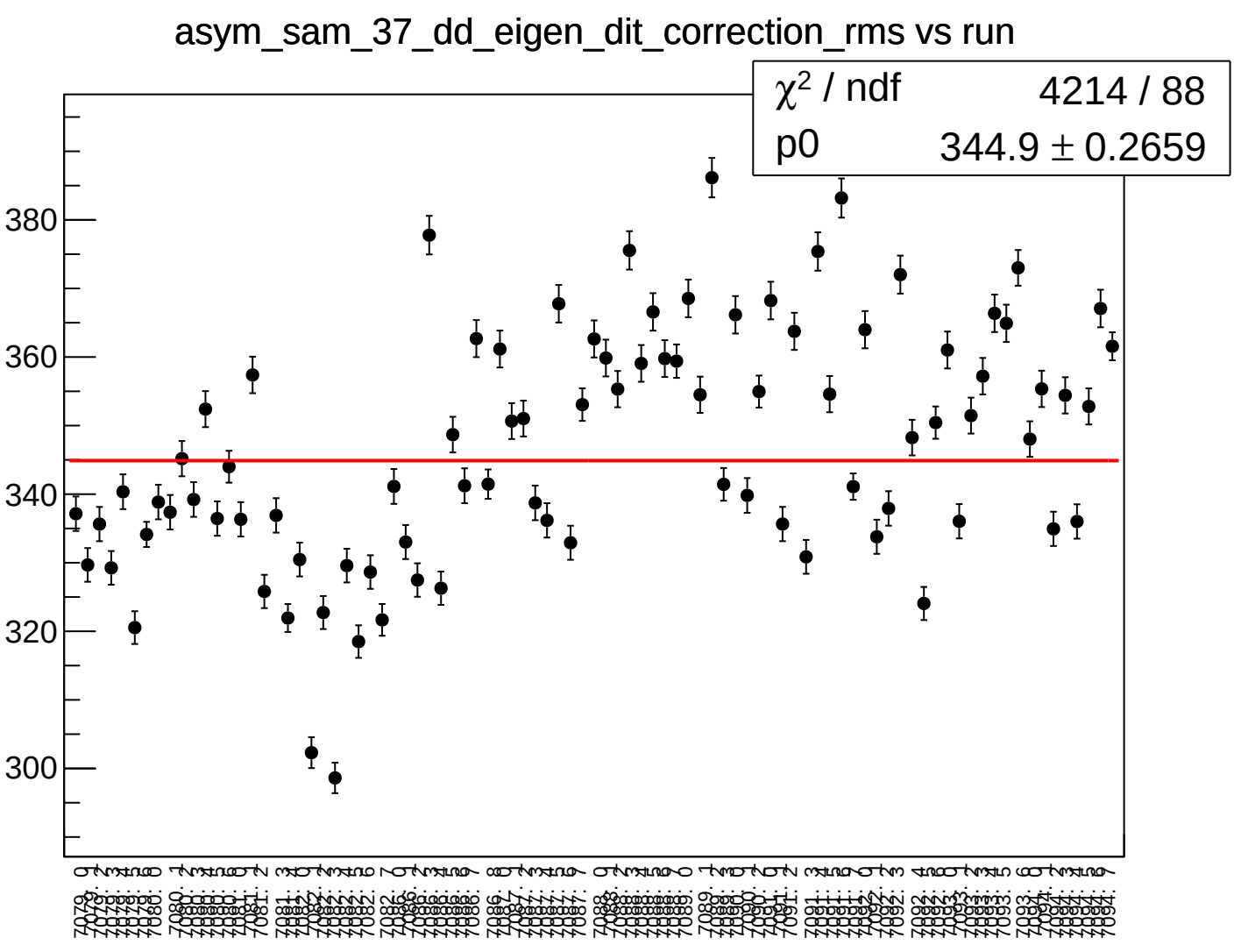

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 4214 / 88
p0 344.9 ± 0.2659
380
360
340
320
300

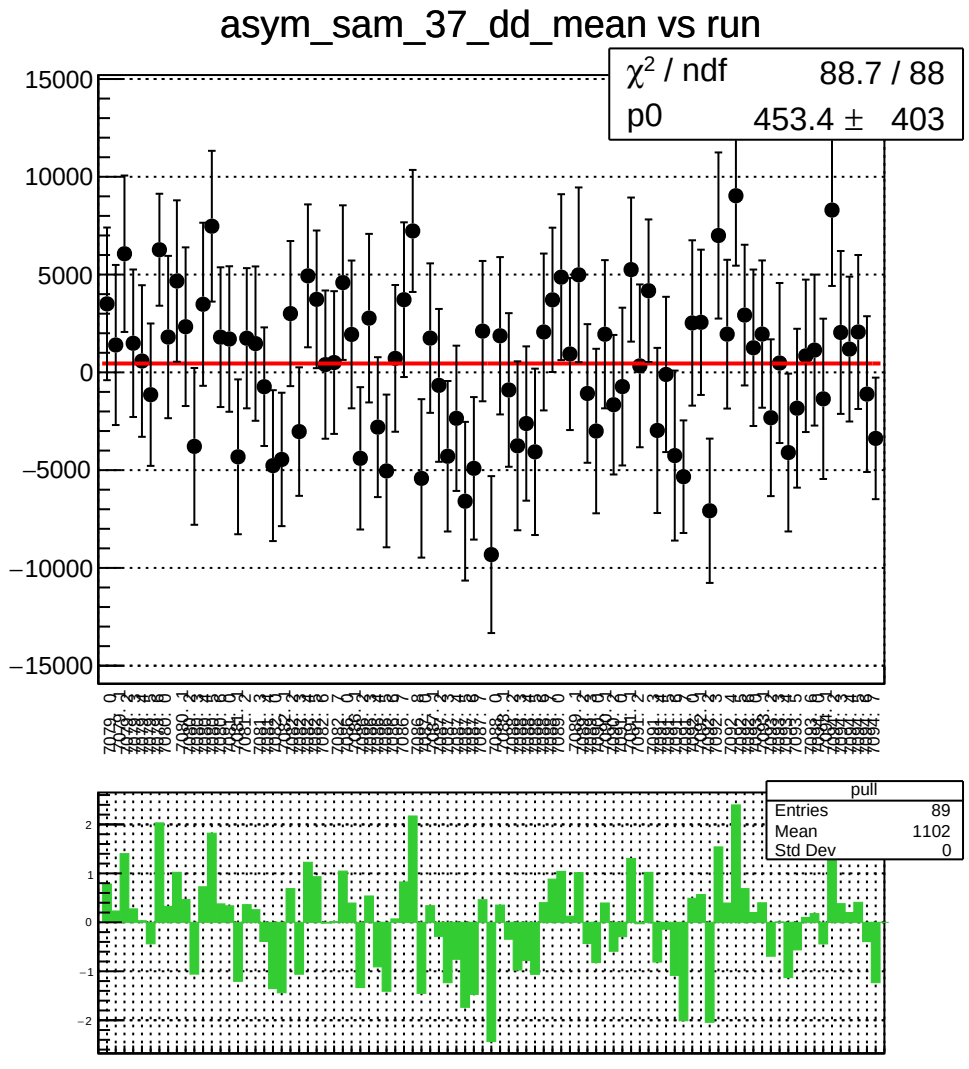

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 75.04 / 88
p0 −52.56 ± 57.17
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 66.59
Std Dev 91.21
3
2
1
0
−1
−2

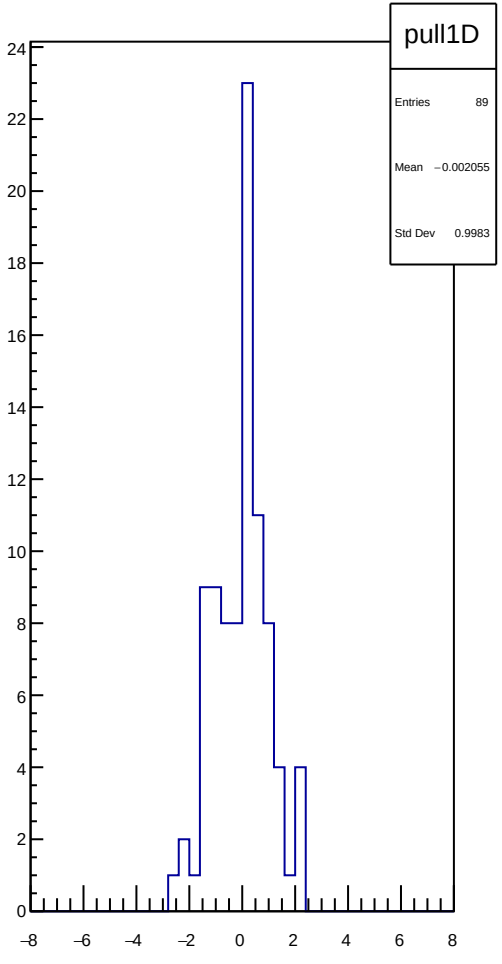

pull1D
Entries 89
Mean 0.01387
Std Dev 0.9181
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

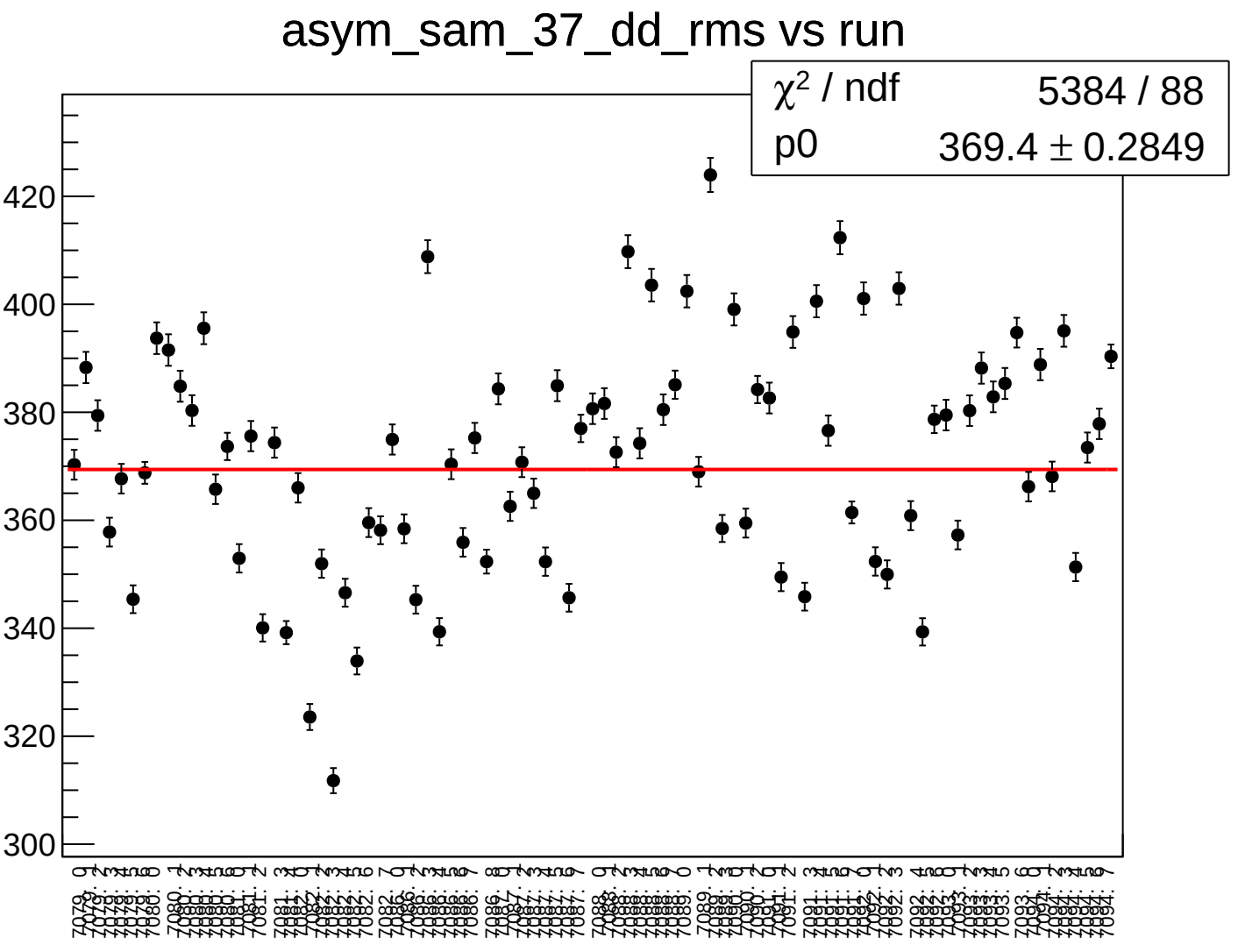

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.144e+04 / 88
p0 52.16 ± 0.04042
80
75
70
65
60
55
50
45

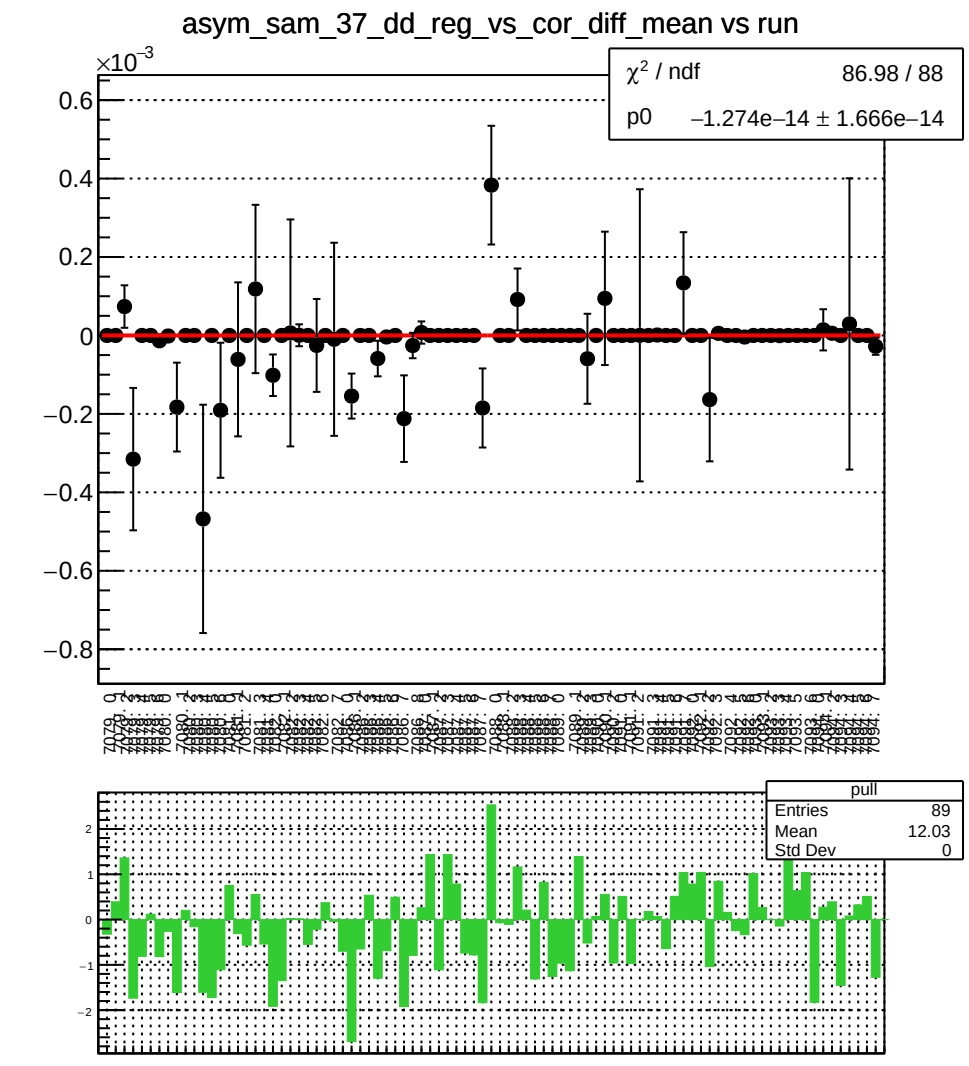

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.67 / 88
p0 −524.8 ± 376.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 402.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.006862
Std Dev 0.9925
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

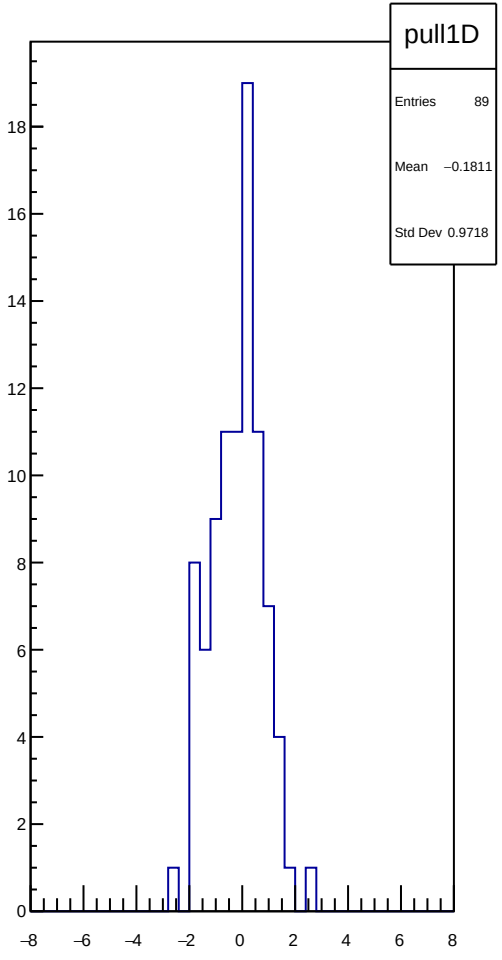

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 4214 / 88
p0 344.9 ± 0.2659
380
360
340
320
300

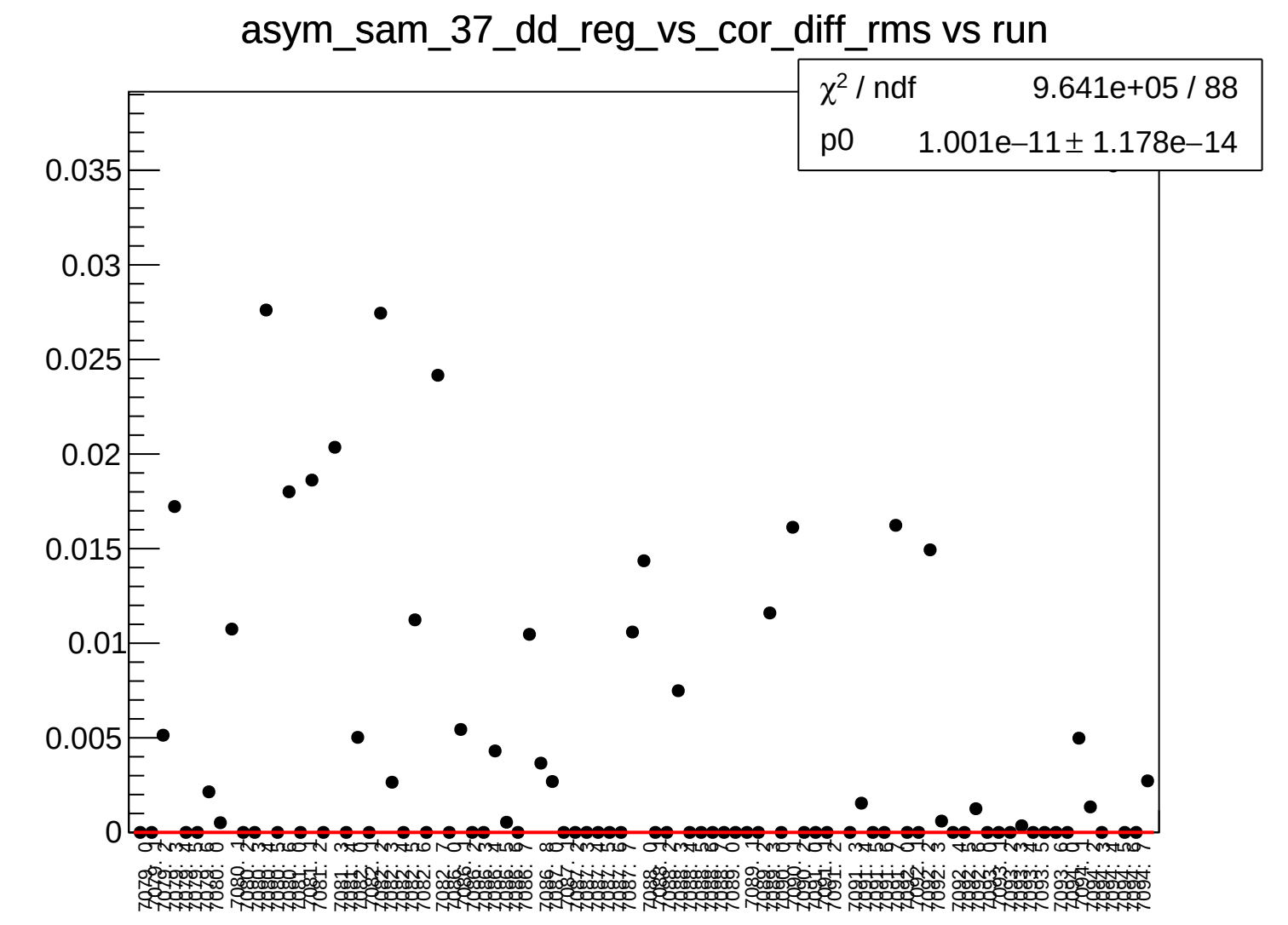

asym_sam_37_dd_mean vs run
χ² / ndf 88.7 / 88
p0 453.4 ± 403
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 1102
Std Dev 0
2
1
0
−1
−2

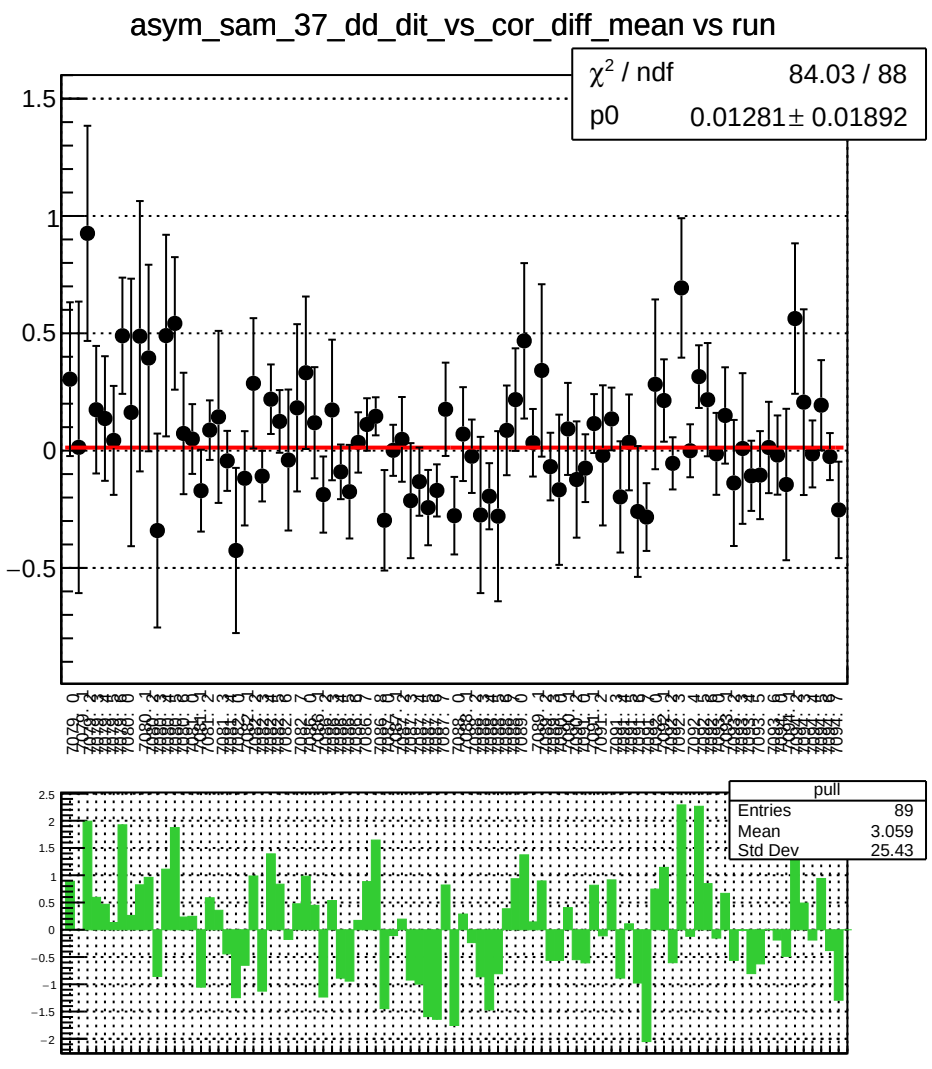

pull1D
Entries 89
Mean −0.002055
Std Dev 0.9983
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

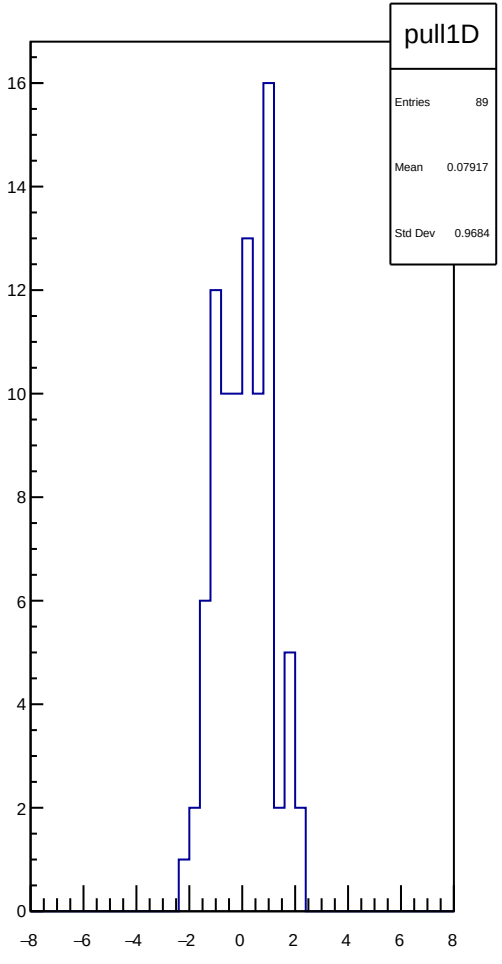

asym_sam_37_dd_rms vs run
χ² / ndf 5384 / 88
p0 369.4 ± 0.2849
420
400
380
360
340
320
300

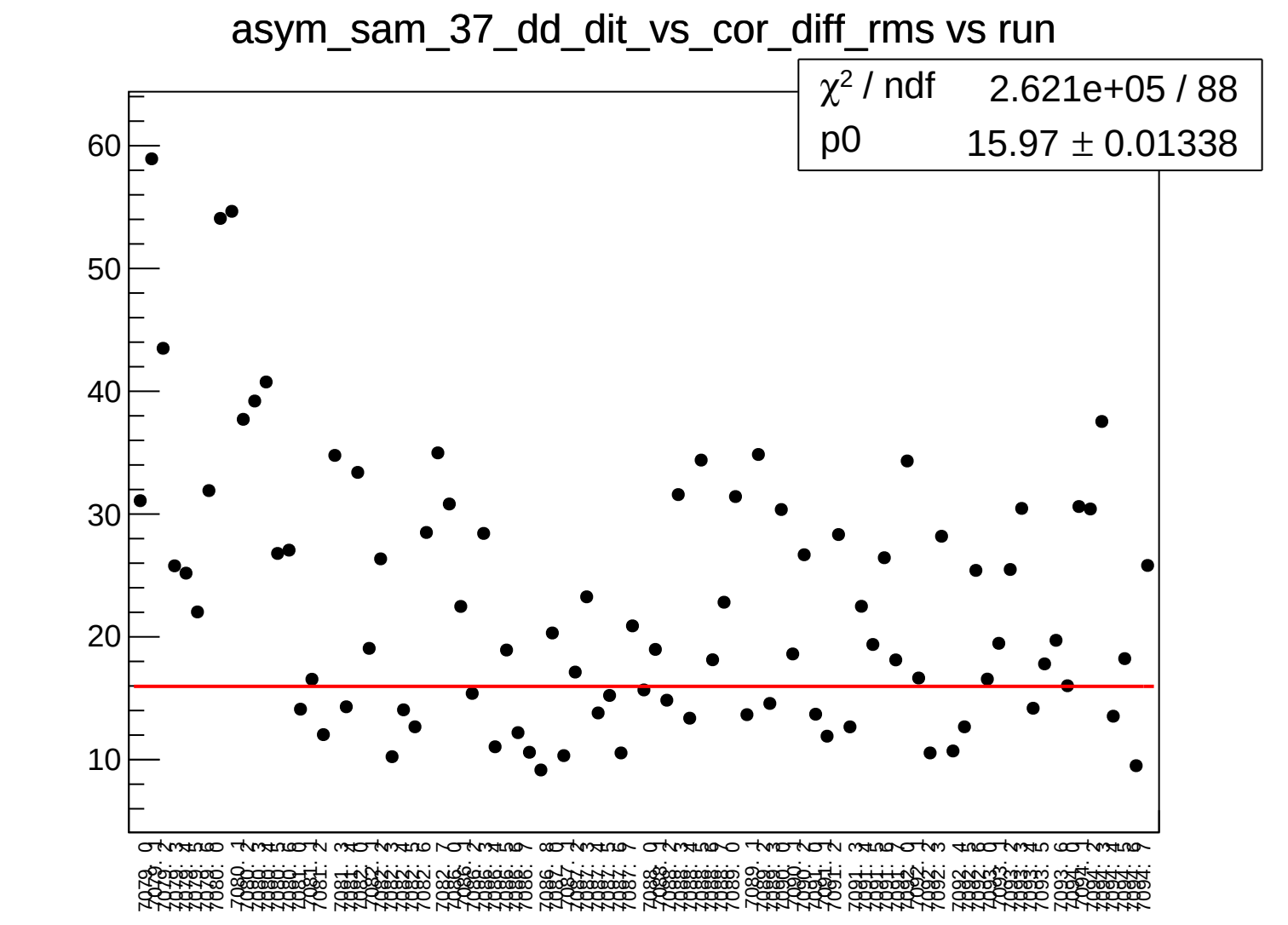

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 86.98 / 88
p0 −1.274e−14 ± 1.666e−14
pull
Entries 89
Mean 12.03
Std Dev 0

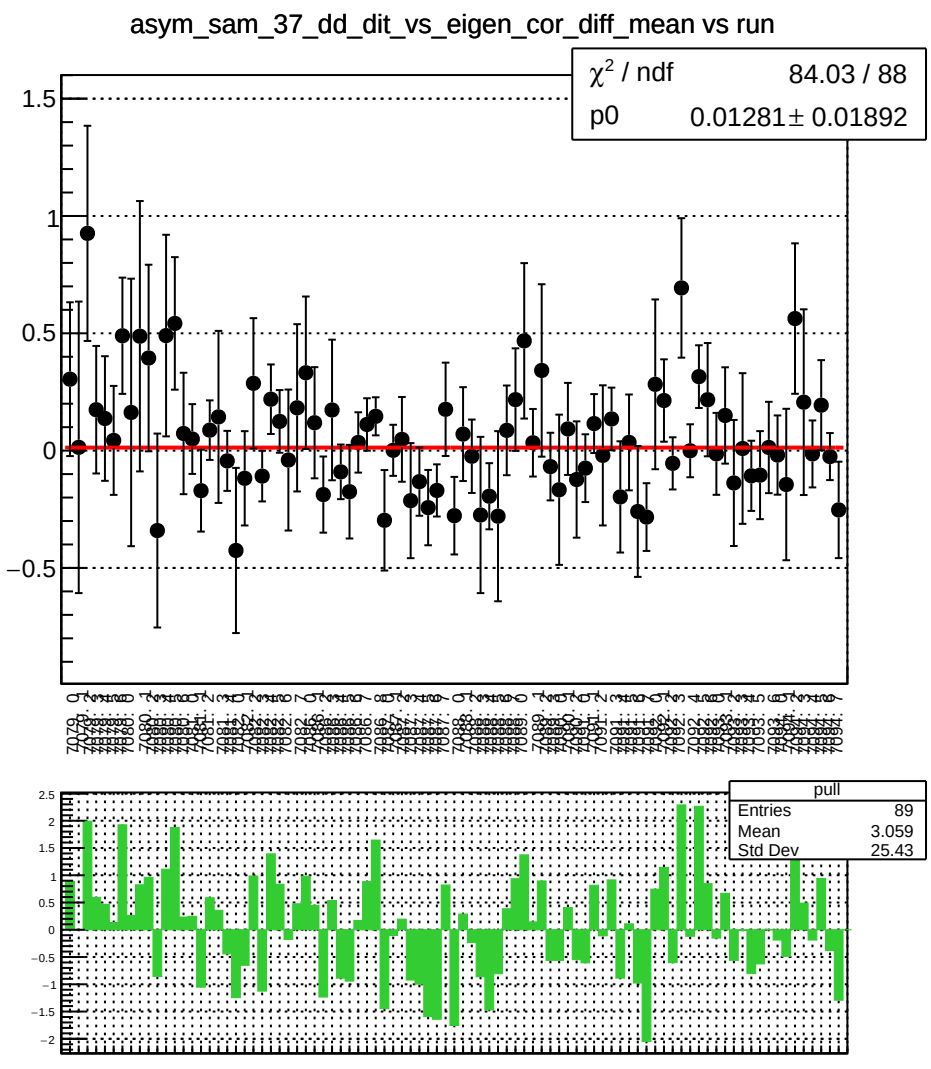

pull1D
Entries 89
Mean −0.1811
Std Dev 0.9718

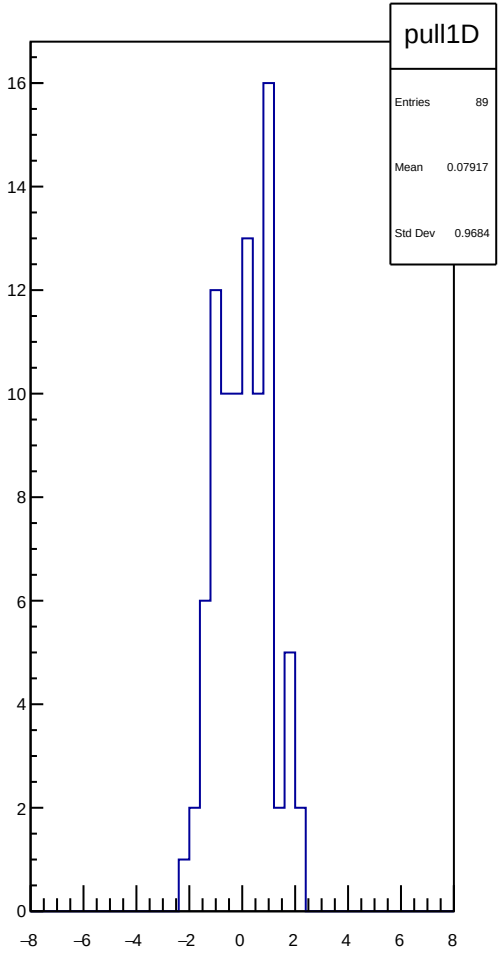

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.641e+05 / 88
p0 1.001e−11 ± 1.178e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

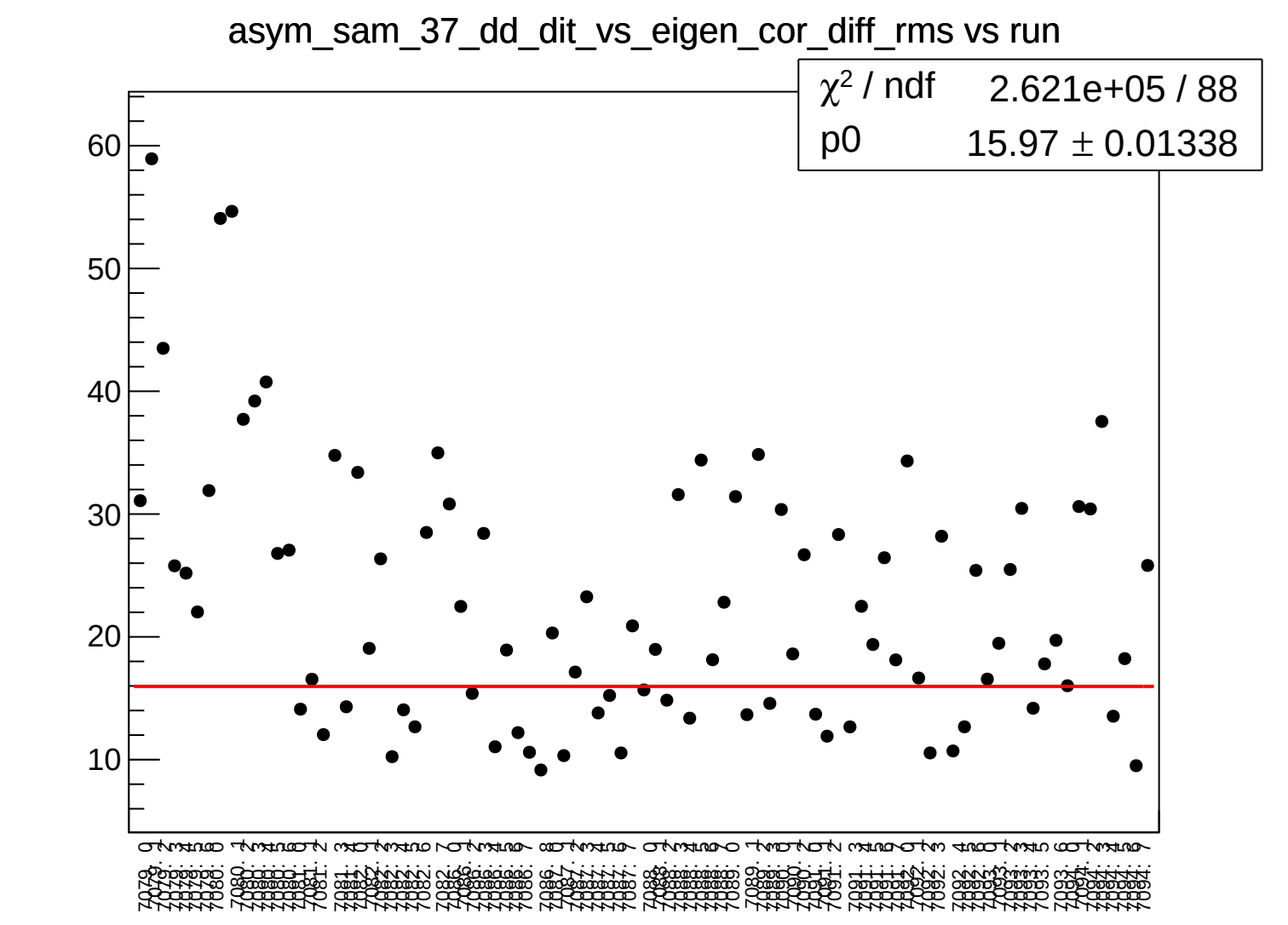

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.03 / 88
p0 0.01281 ± 0.01892
pull
Entries 89
Mean 3.059
Std Dev 25.43

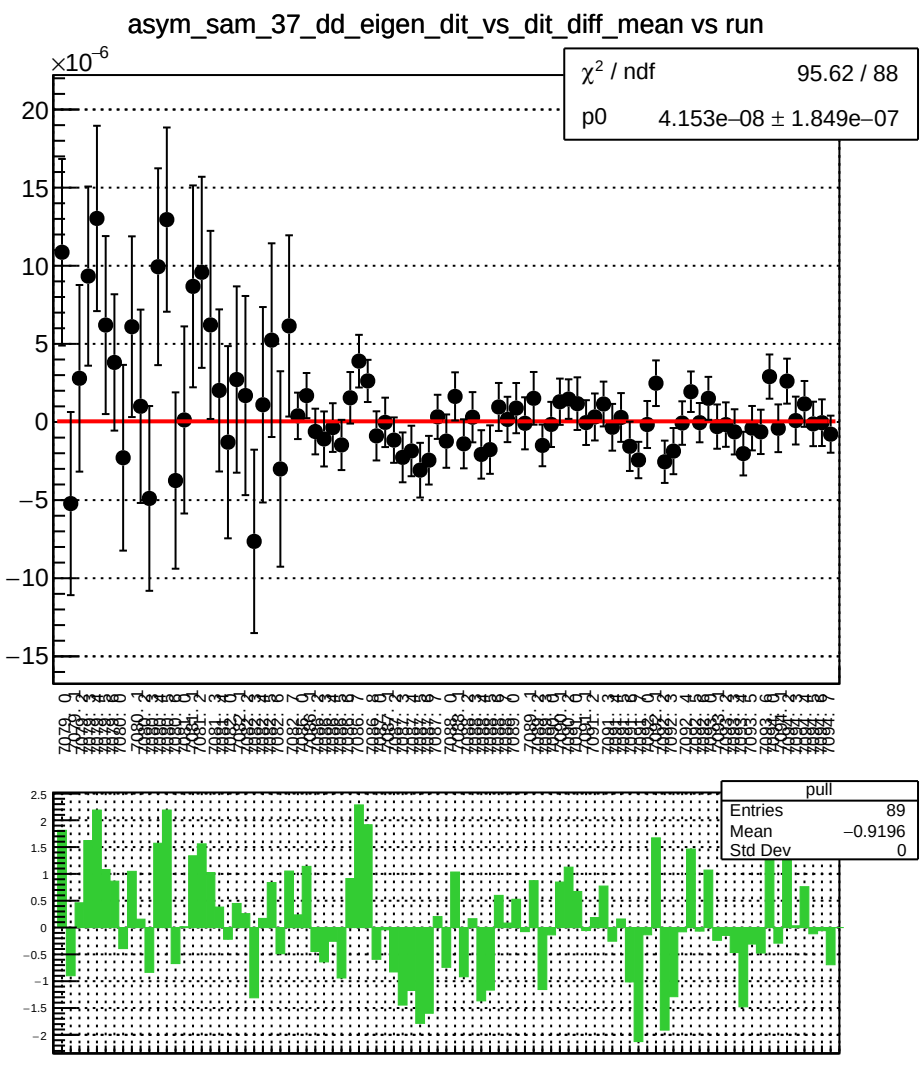

pull1D
Entries 89
Mean 0.07917
Std Dev 0.9684

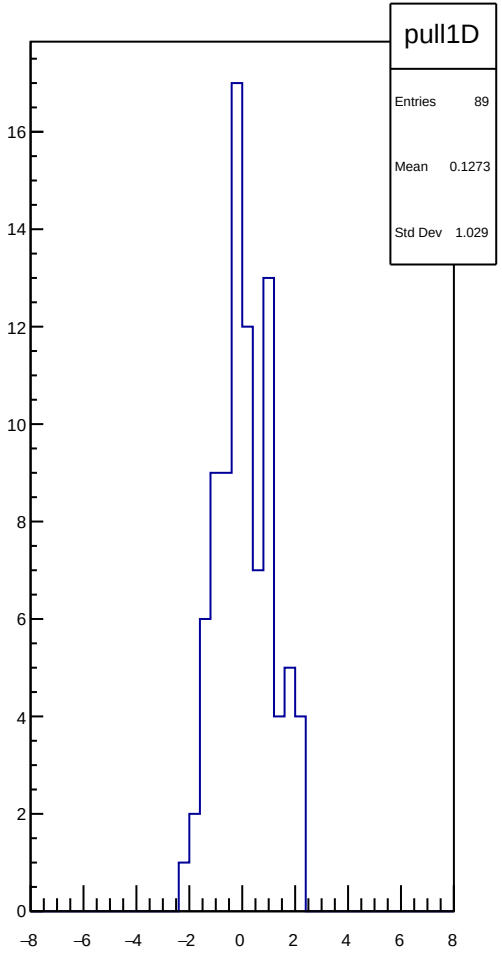

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.621e+05 / 88
p0 15.97 ± 0.01338
60
50
40
30
20
10

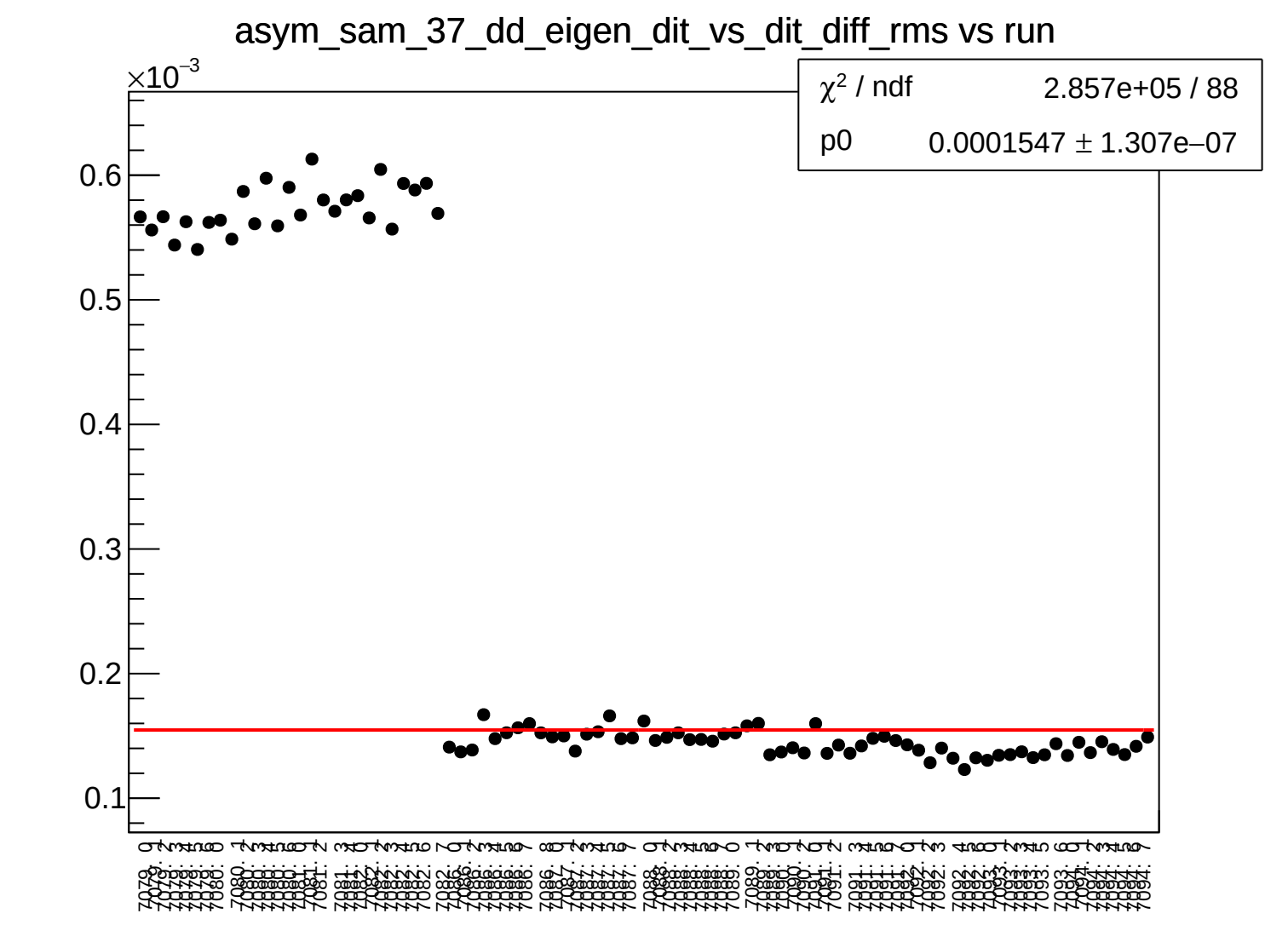

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.03 / 88
p0 0.01281 ± 0.01892
pull
Entries 89
Mean 3.059
Std Dev 25.43

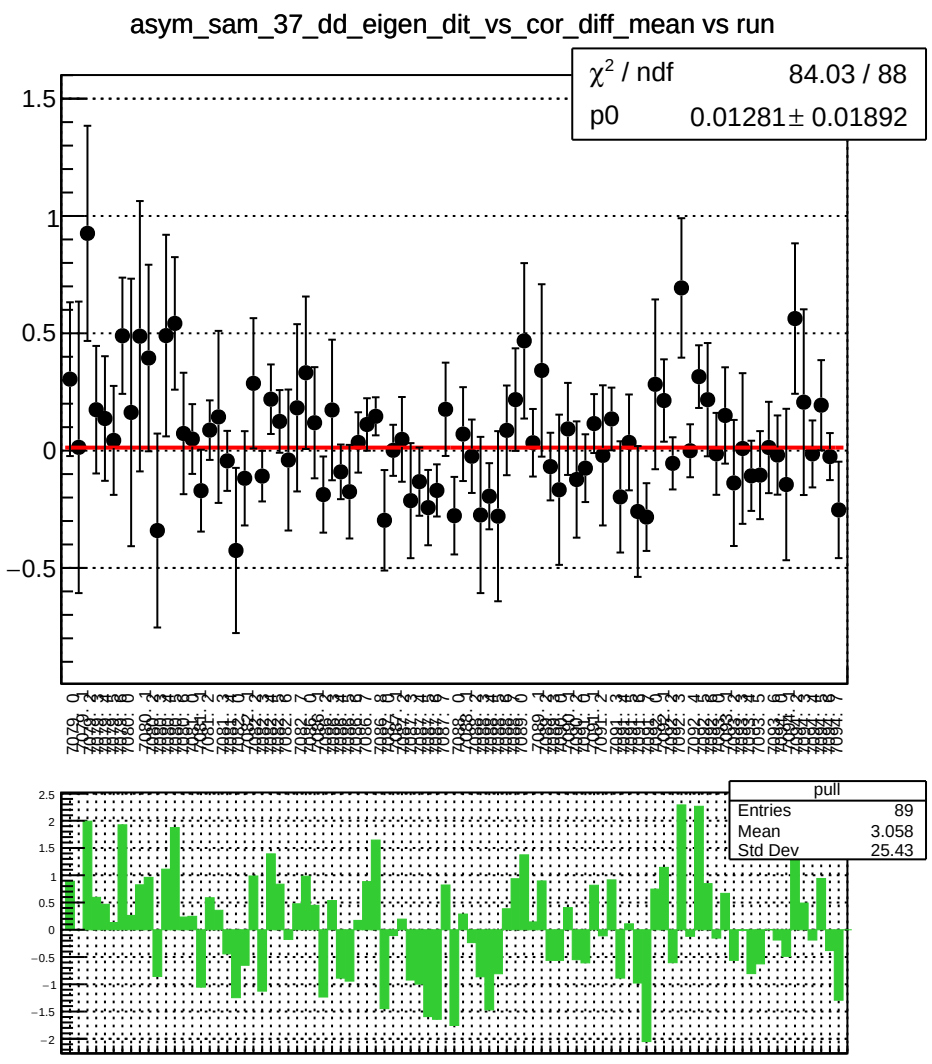

pull1D
Entries 89
Mean 0.07917
Std Dev 0.9684

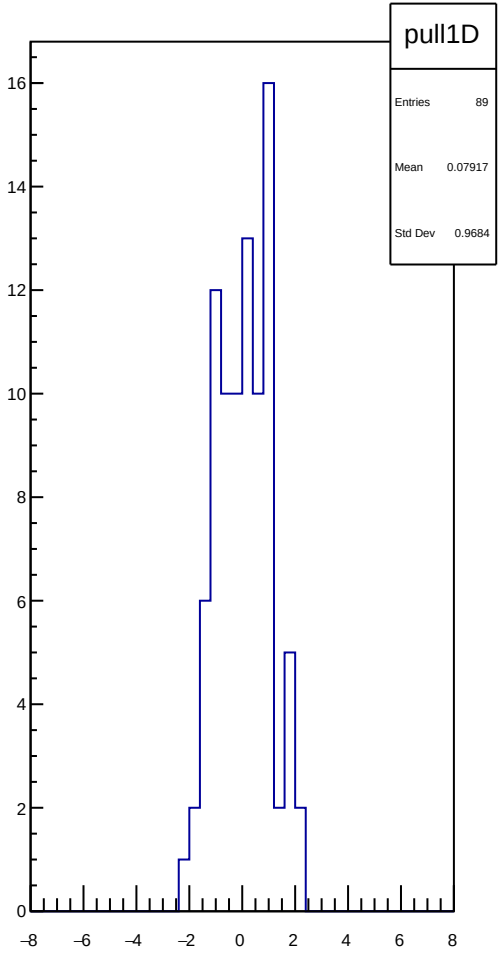

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.621e+05 / 88
p0 15.97 ± 0.01338
60
50
40
30
20
10

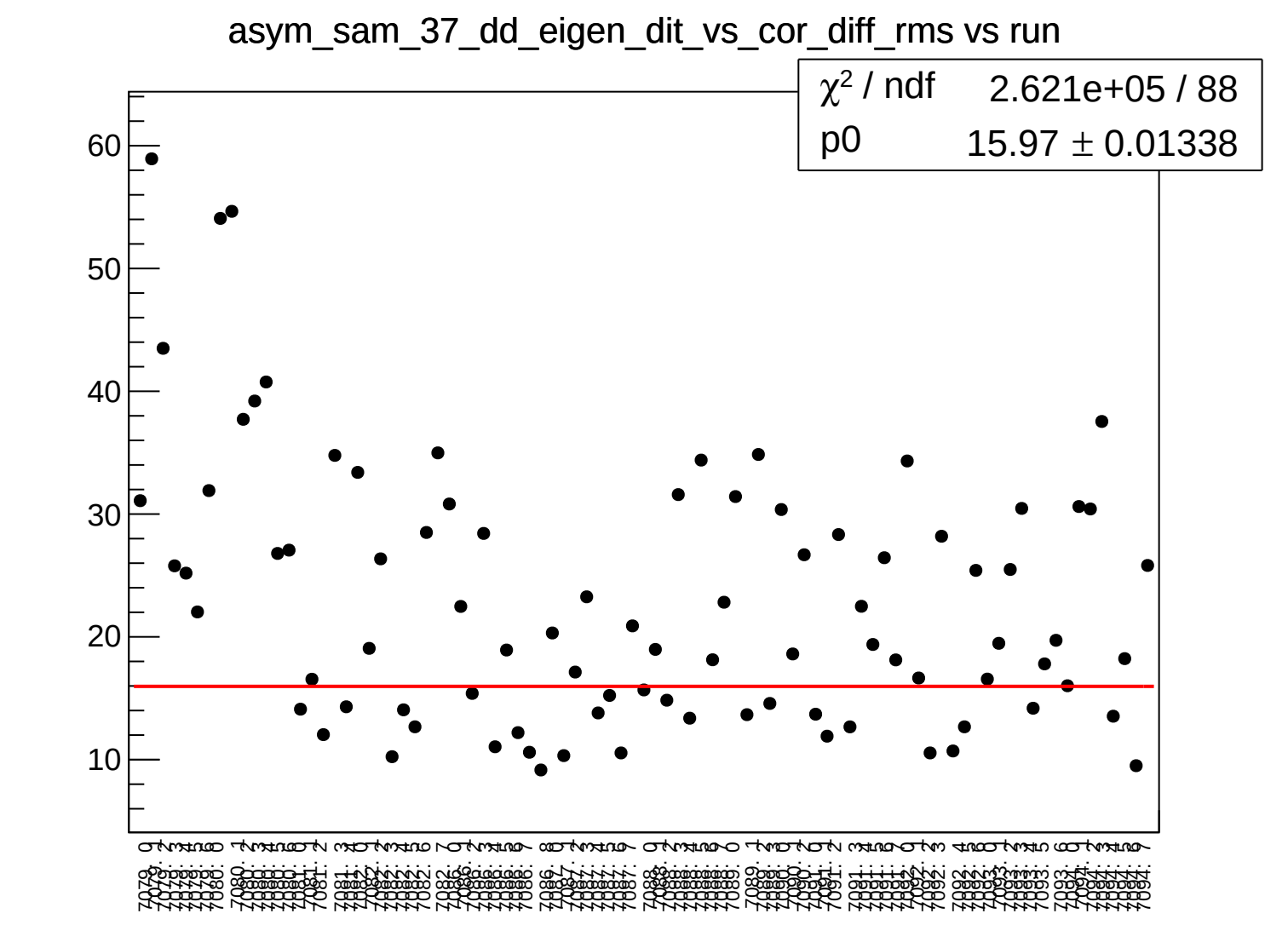

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 95.62 / 88
p0 4.153e−08 ± 1.849e−07
pull
Entries 89
Mean −0.9196
Std Dev 0

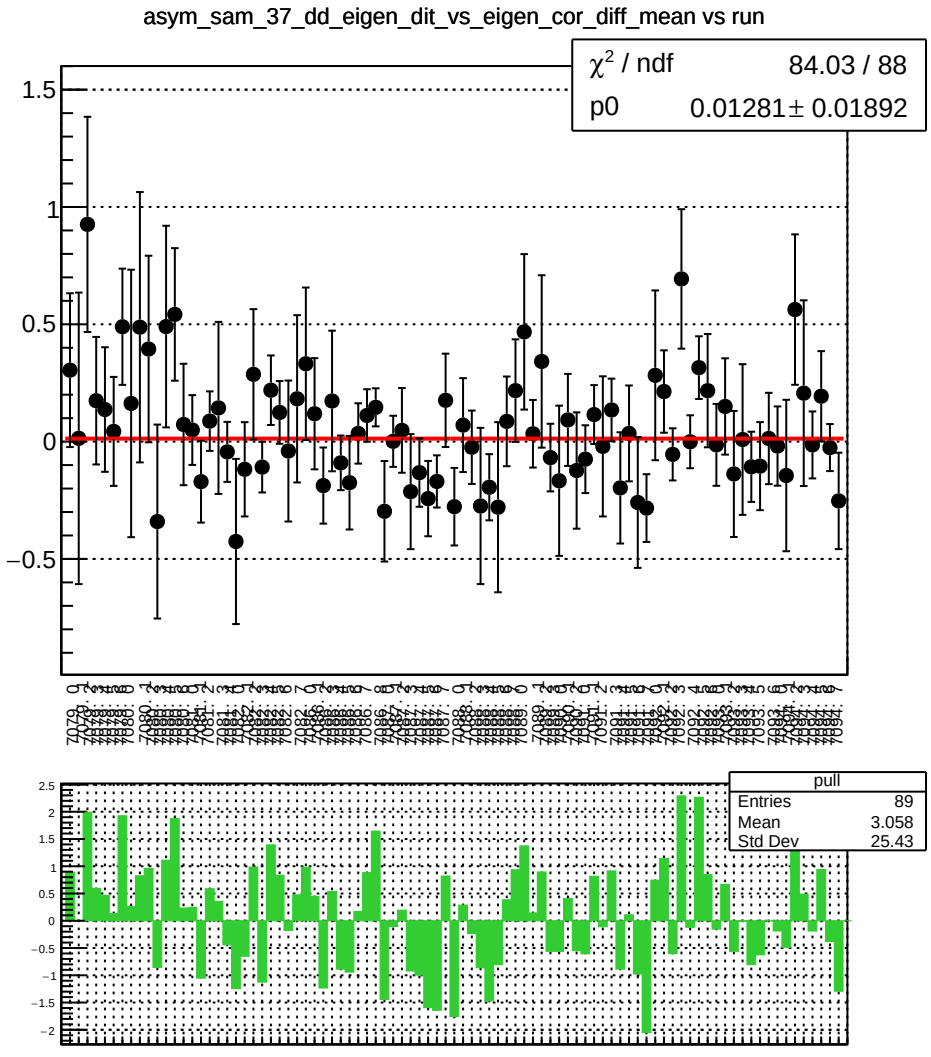

pull1D
Entries 89
Mean 0.1273
Std Dev 1.029

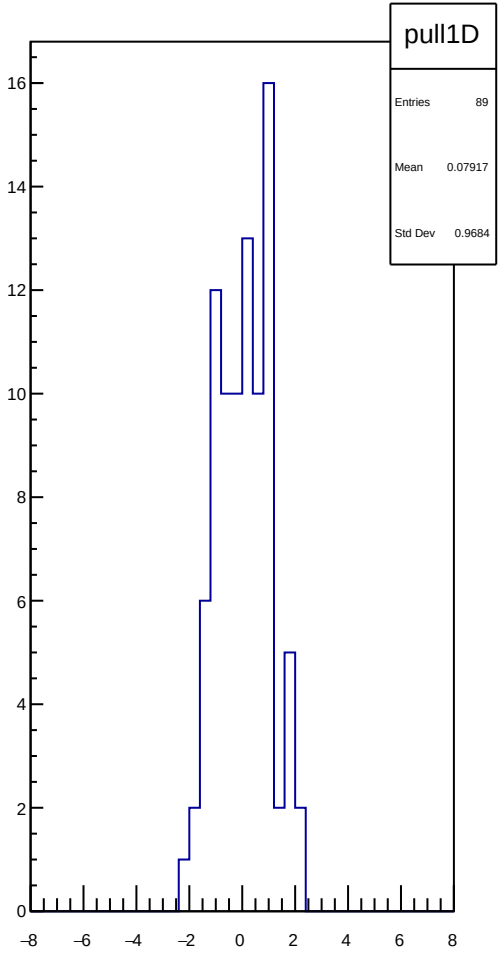

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2.857e+05 / 88
p0 0.0001547 ± 1.307e−07
0.6
0.5
0.4
0.3
0.2
0.1

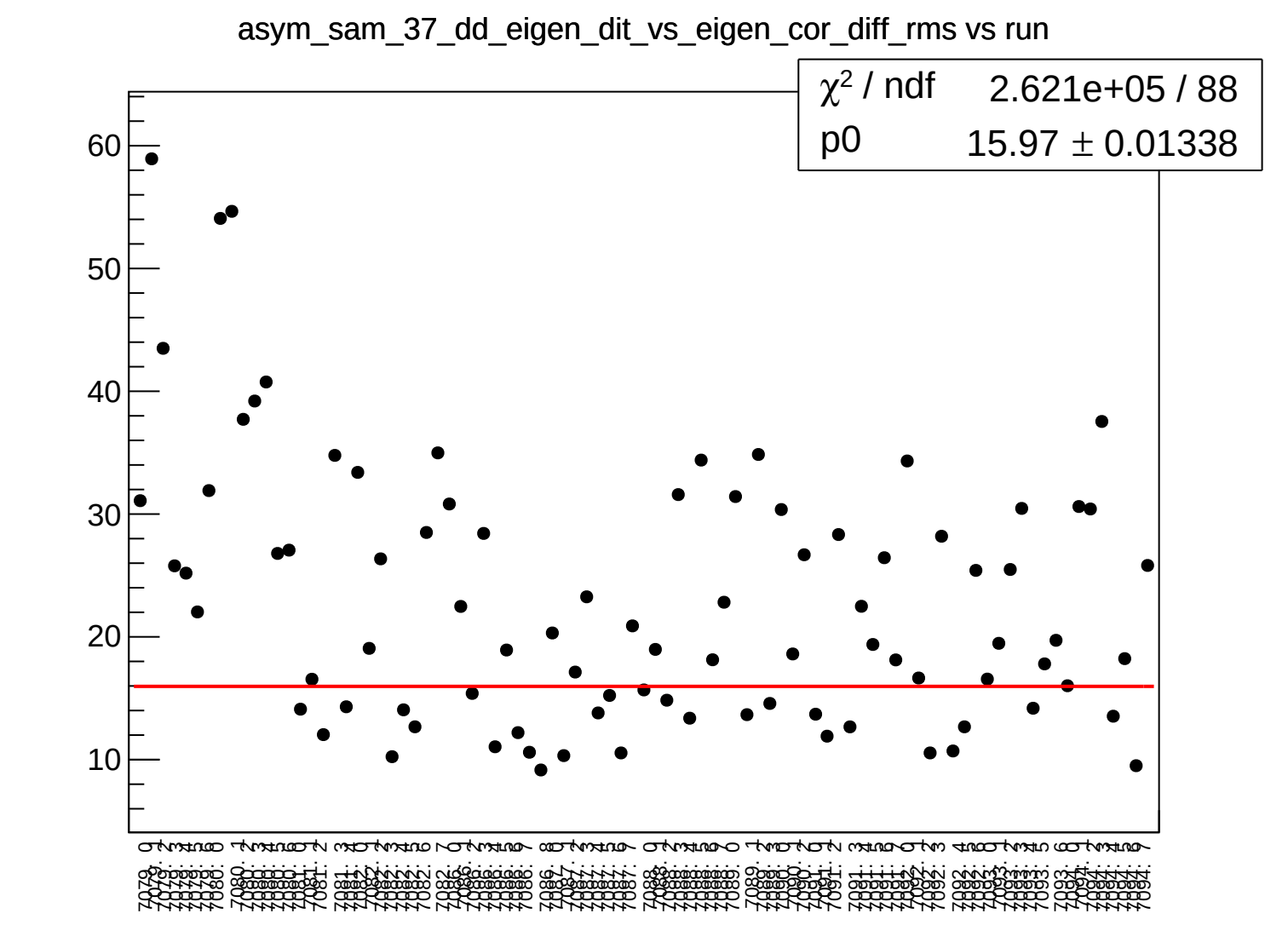

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.03 / 88
p0 0.01281 ± 0.01892
pull
Entries 89
Mean 3.058
Std Dev 25.43

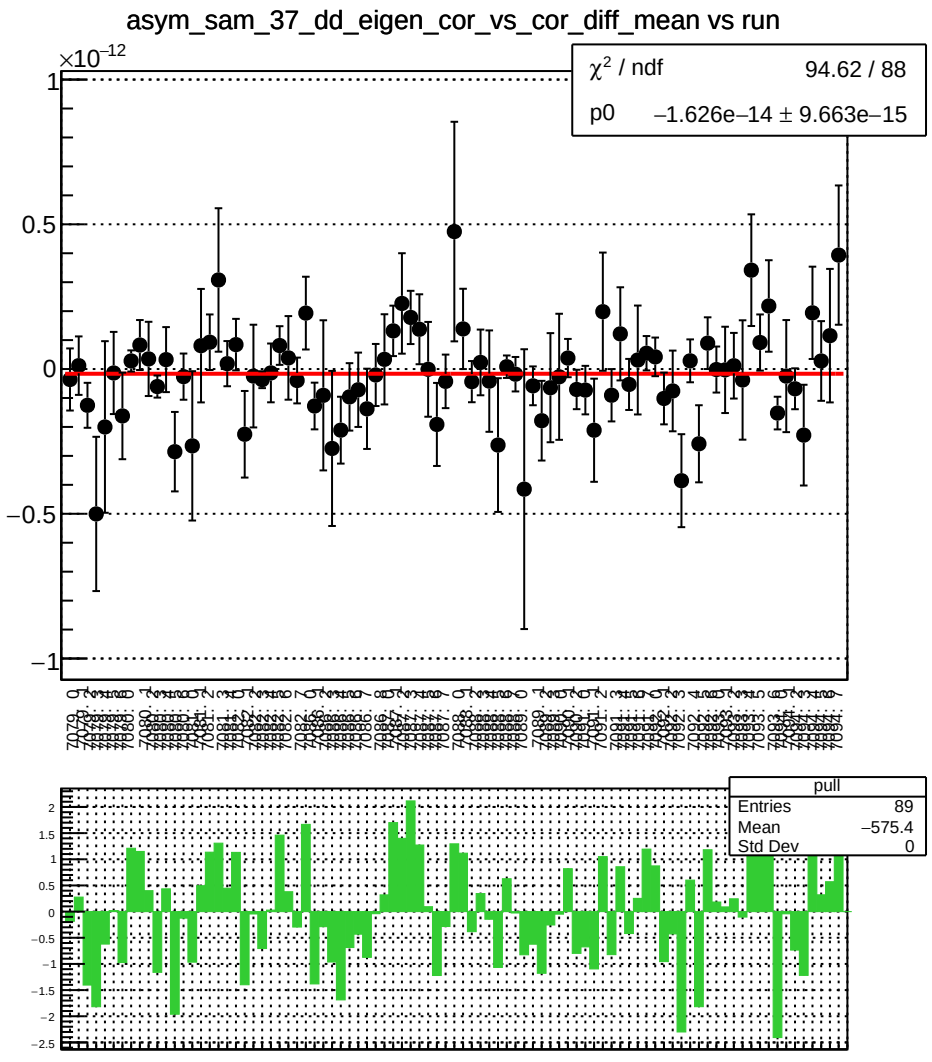

pull1D
Entries 89
Mean 0.07917
Std Dev 0.9684

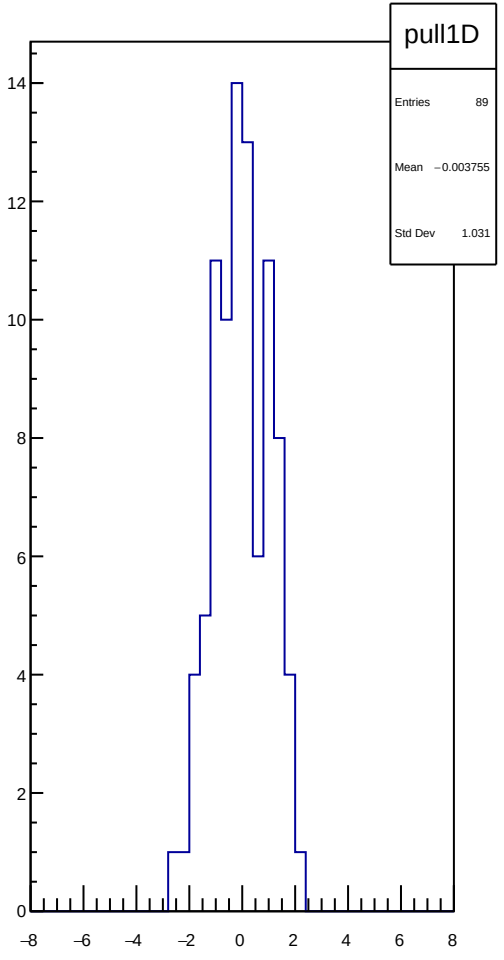

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.621e+05 / 88
p0 15.97 ± 0.01338
60
50
40
30
20
10

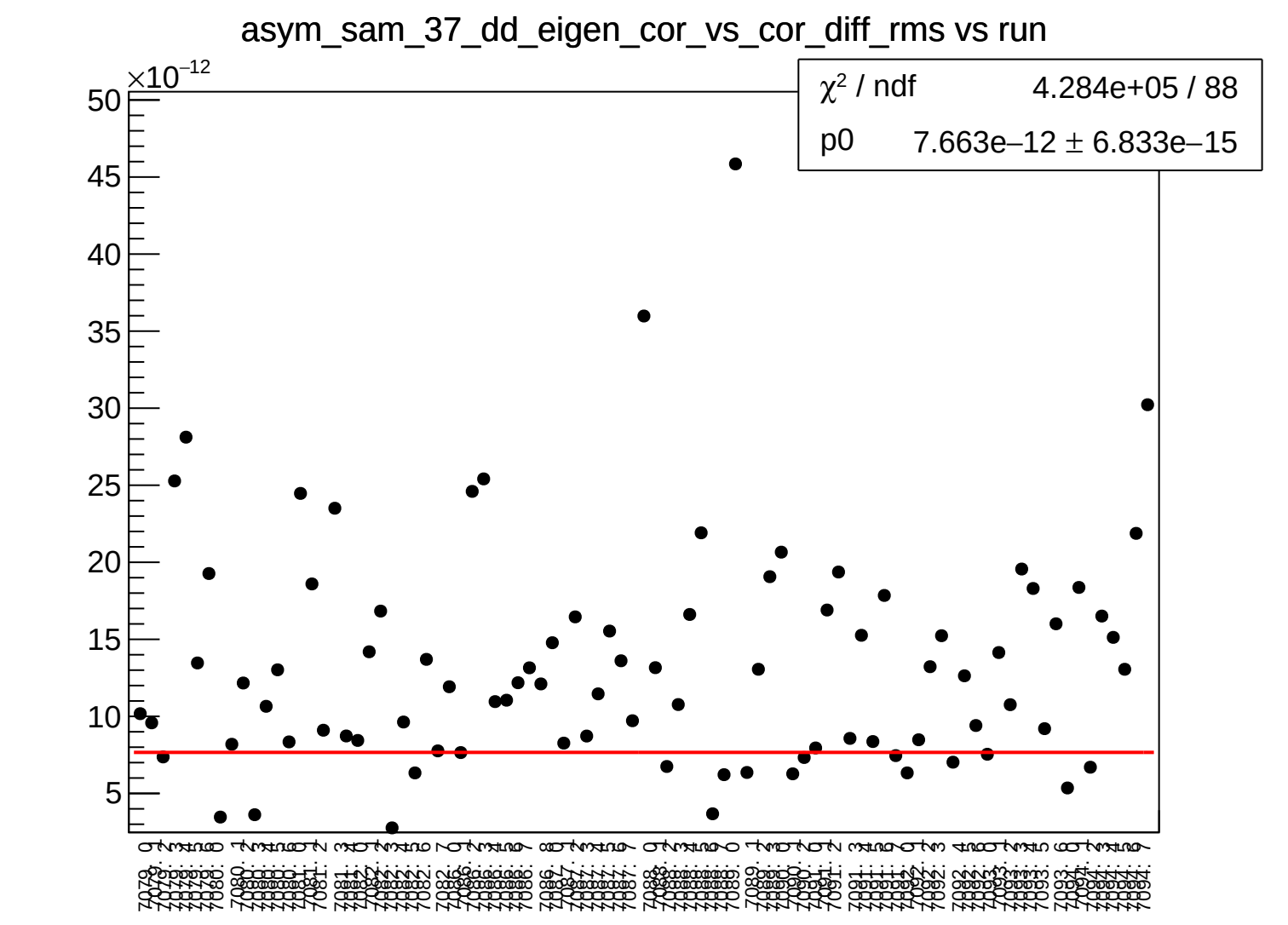

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.03 / 88
p0 0.01281 ± 0.01892
pull
Entries 89
Mean 3.058
Std Dev 25.43

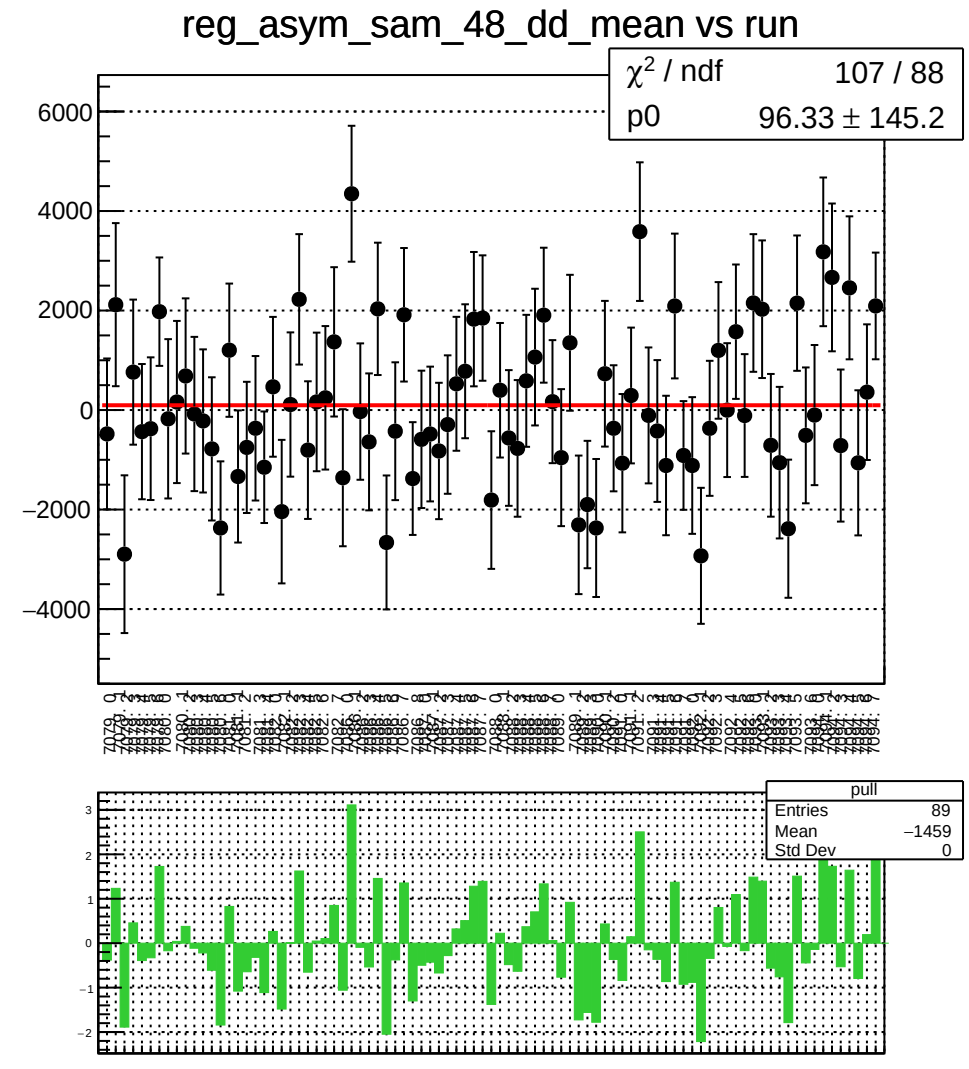

pull1D
Entries 89
Mean 0.07917
Std Dev 0.9684

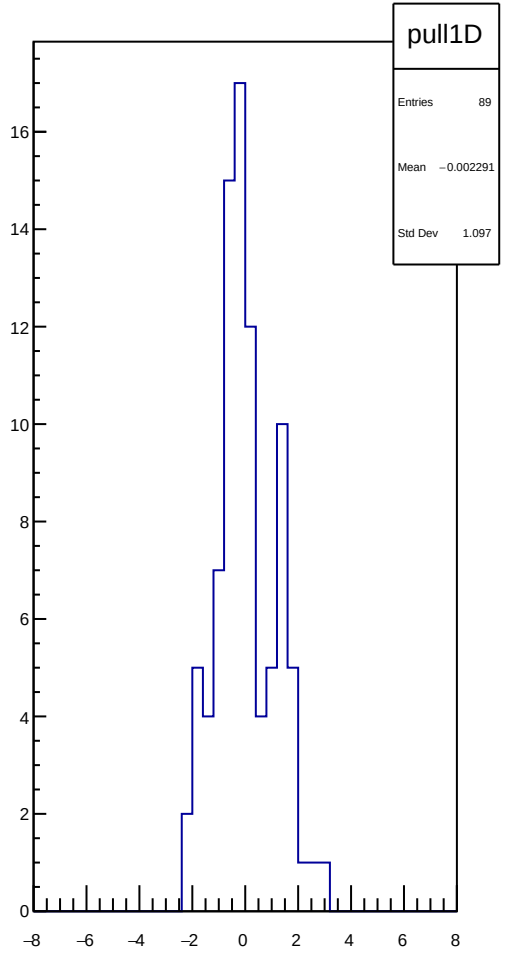

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.621e+05 / 88
p0 15.97 ± 0.01338
60
50
40
30
20
10

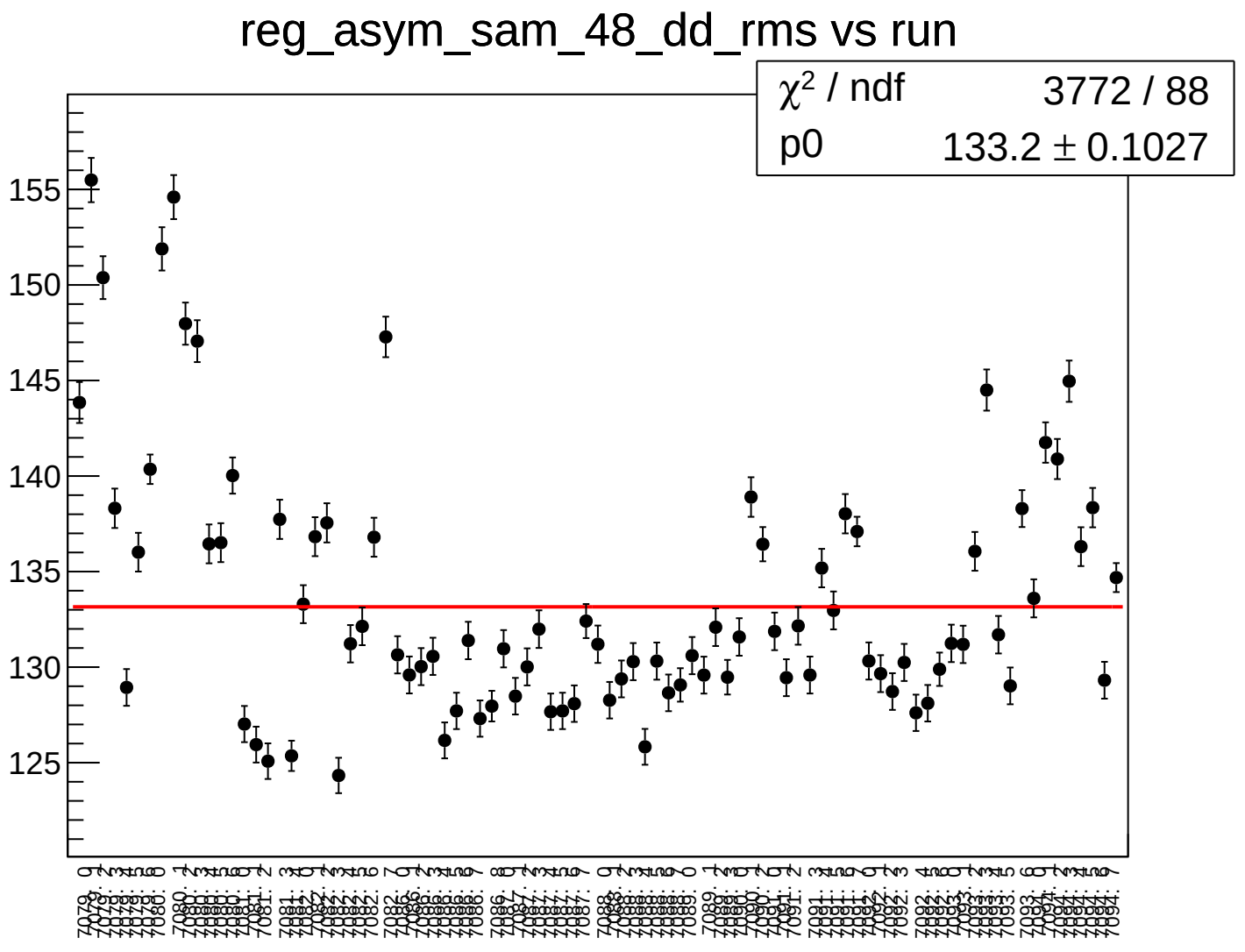

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 94.62 / 88
p0 −1.626e−14 ± 9.663e−15
pull
Entries 89
Mean −575.4
Std Dev 0

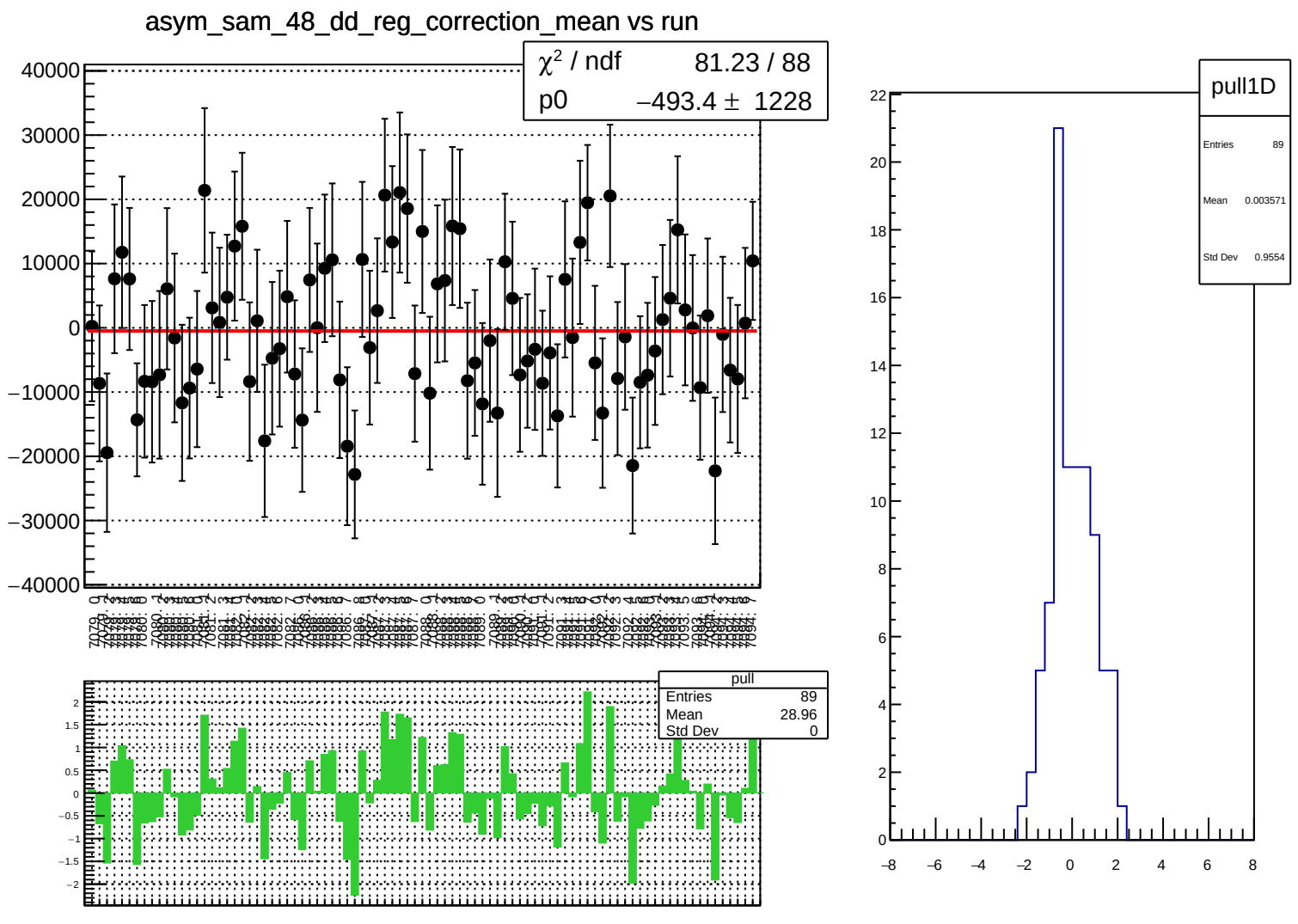

pull1D
Entries 89
Mean −0.003755
Std Dev 1.031

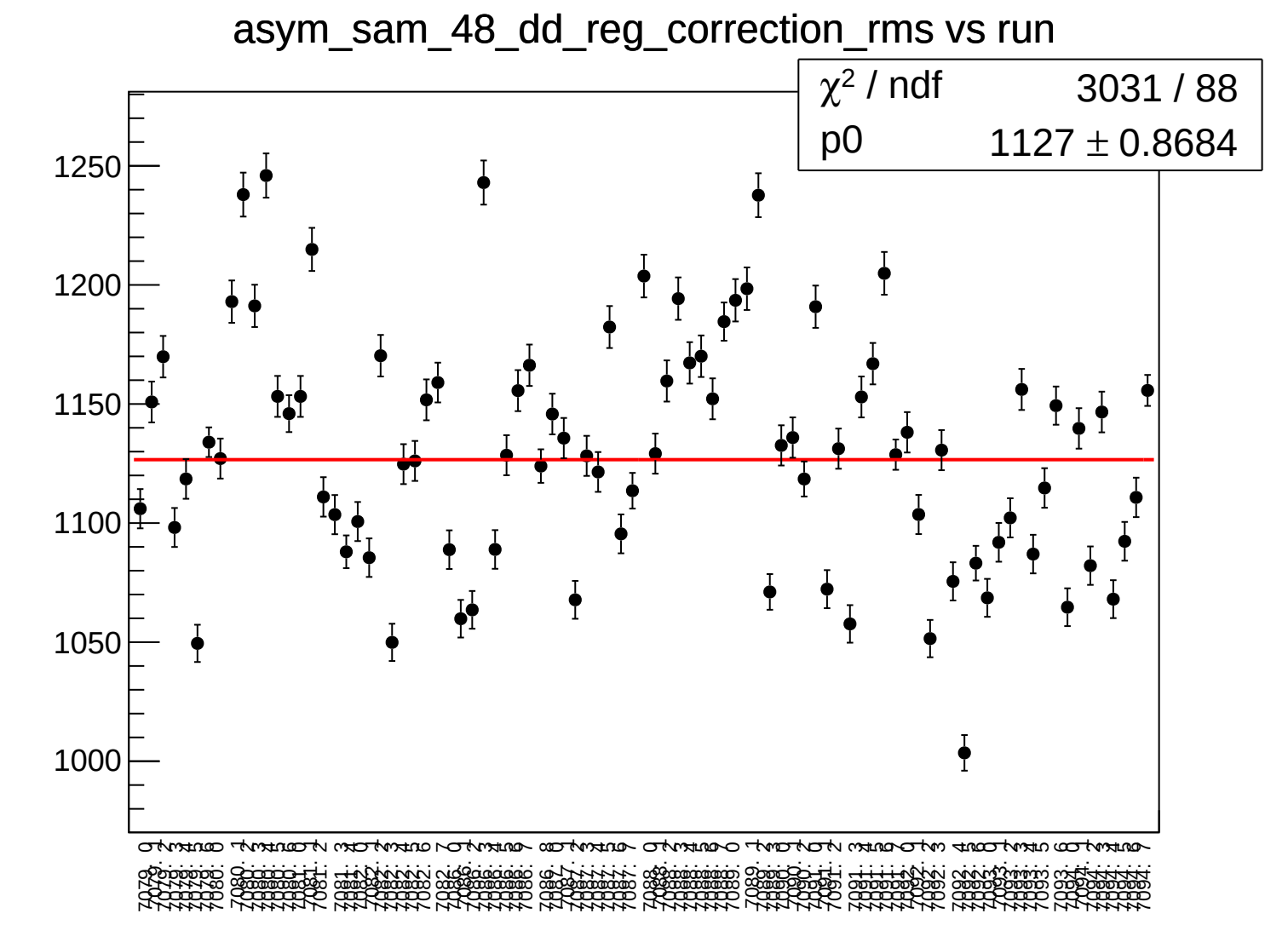

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.284e+05 / 88
p0 7.663e−12 ± 6.833e−15
50
45
40
35
30
25
20
15
10
5

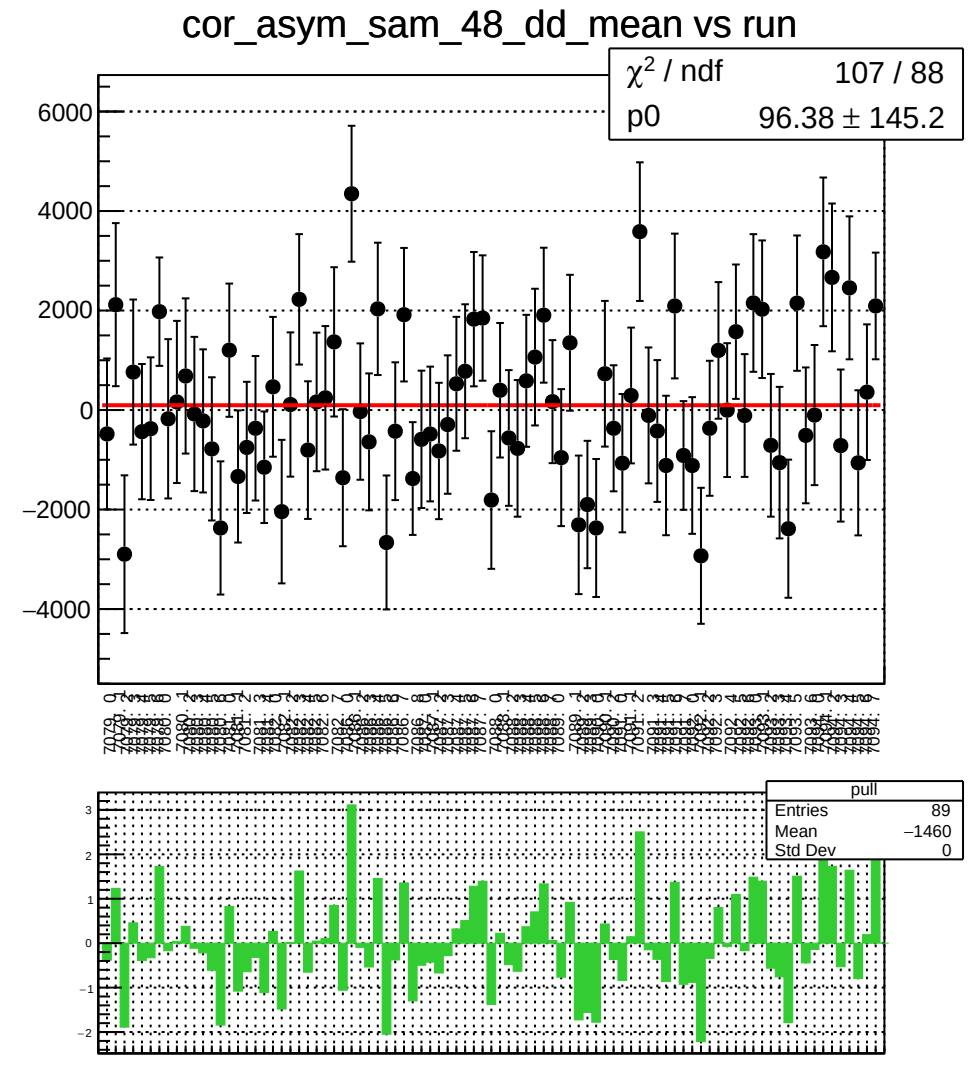

reg_asym_sam_48_dd_mean vs run
χ² / ndf 107 / 88
p0 96.33 ± 145.2
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −1459
Std Dev 0
3
2
1
0
−1
−2

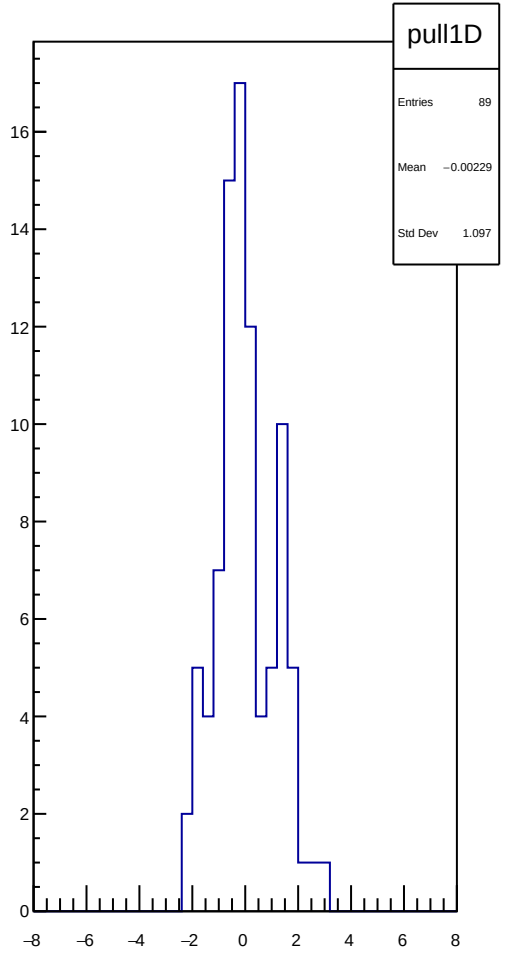

pull1D
Entries 89
Mean −0.002291
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_dd_rms vs run
χ² / ndf 3772 / 88
p0 133.2 ± 0.1027
155
150
145
140
135
130
125

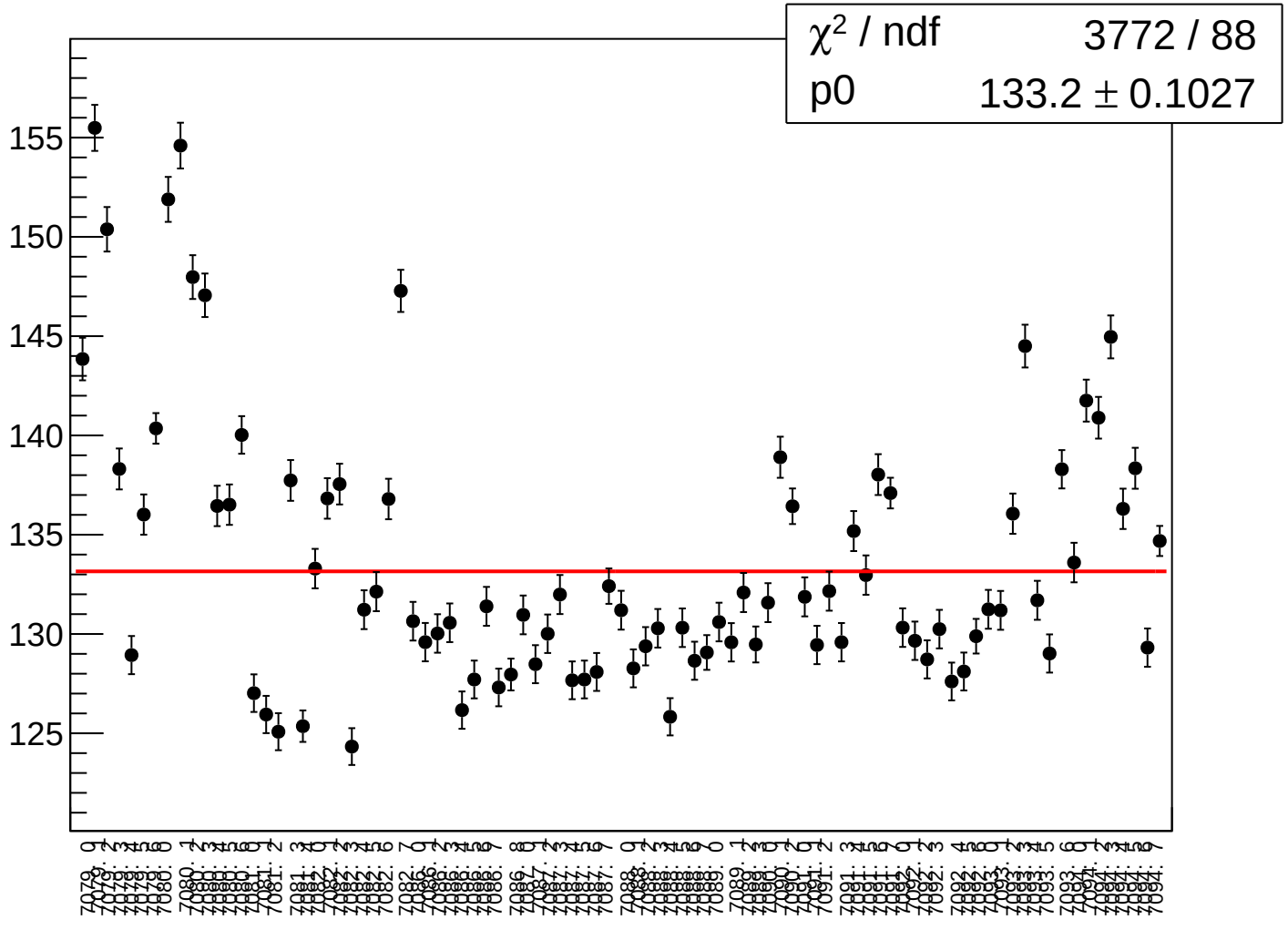

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 81.23 / 88
p0 −493.4 ± 1228
pull
Entries 89
Mean 28.96
Std Dev 0
pull1D
Entries 89
Mean 0.003571
Std Dev 0.9554

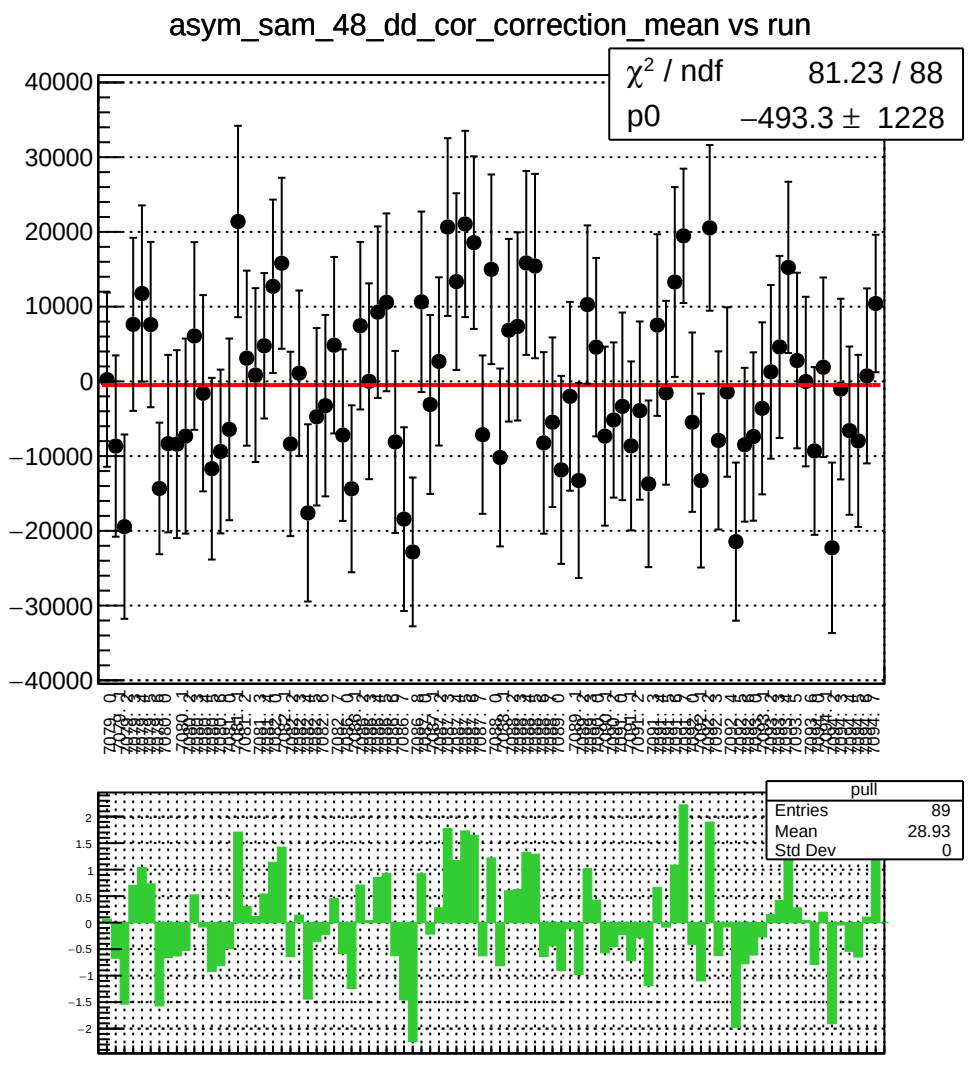

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 3031 / 88
p0 1127 ± 0.8684
1250
1200
1150
1100
1050
1000

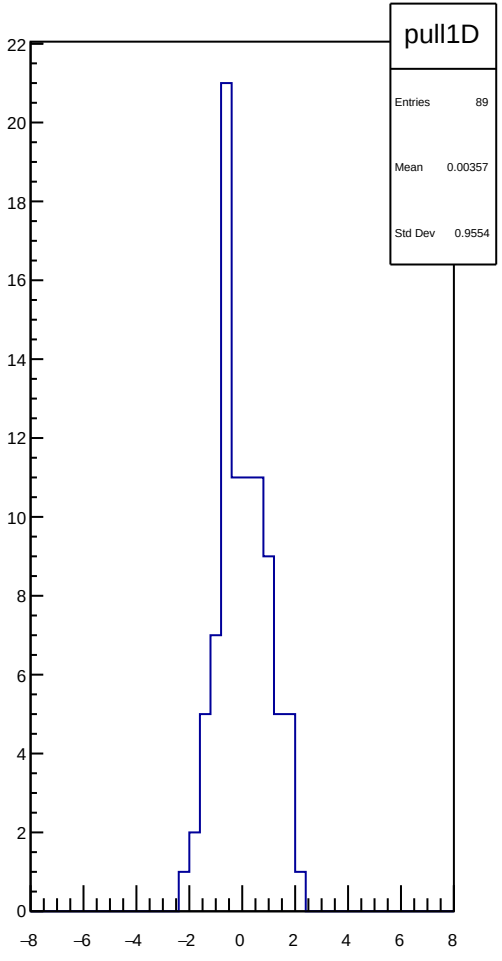

cor_asym_sam_48_dd_mean vs run
χ² / ndf 107 / 88
p0 96.38 ± 145.2
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −1460
Std Dev 0
3
2
1
0
−1
−2

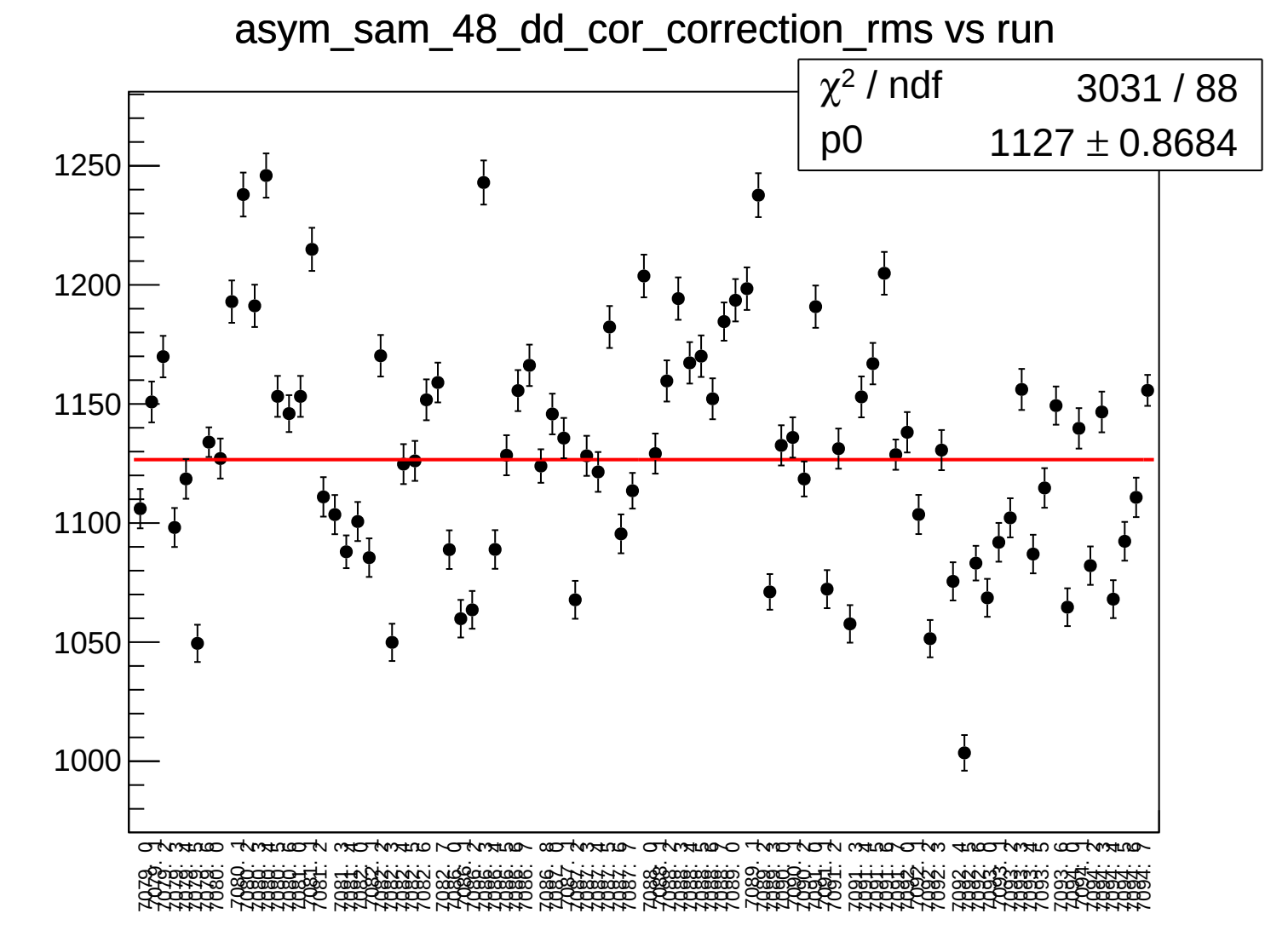

pull1D
Entries 89
Mean −0.00229
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

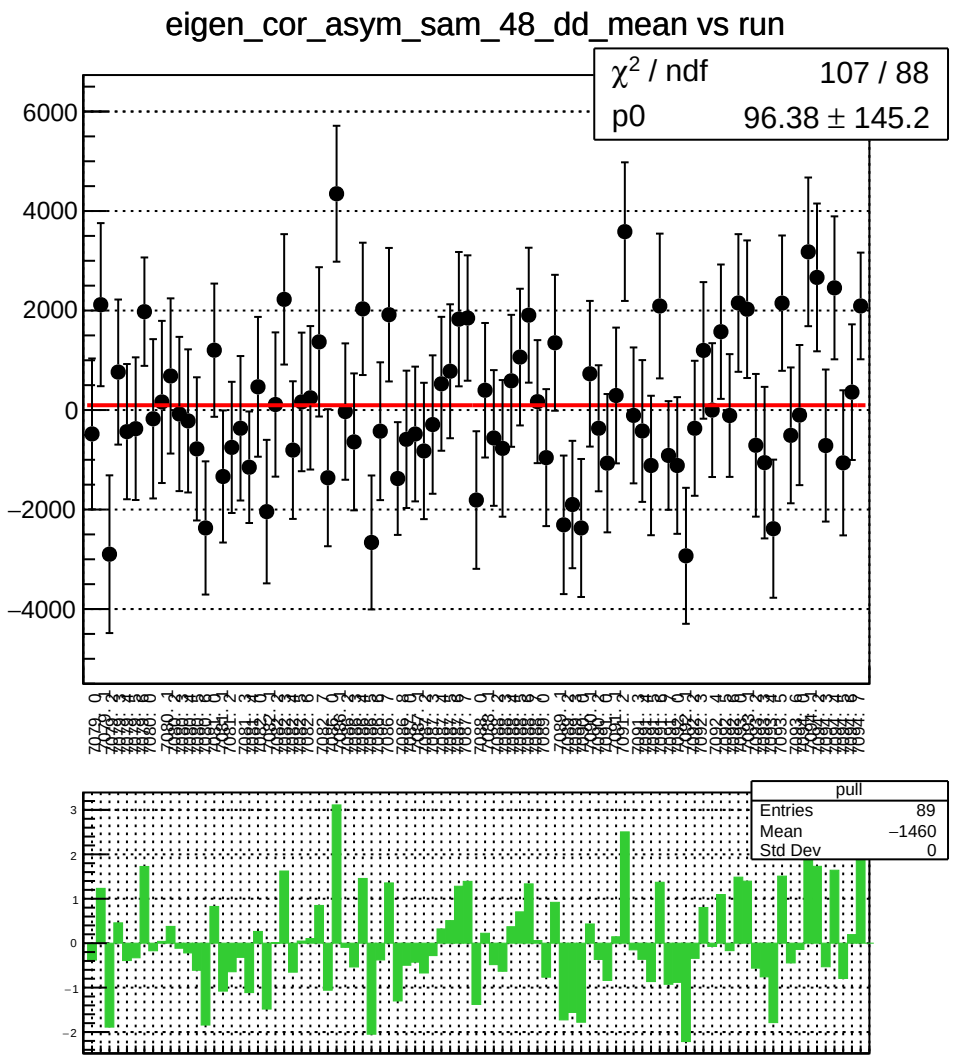
cor_asym_sam_48_dd_rms vs run

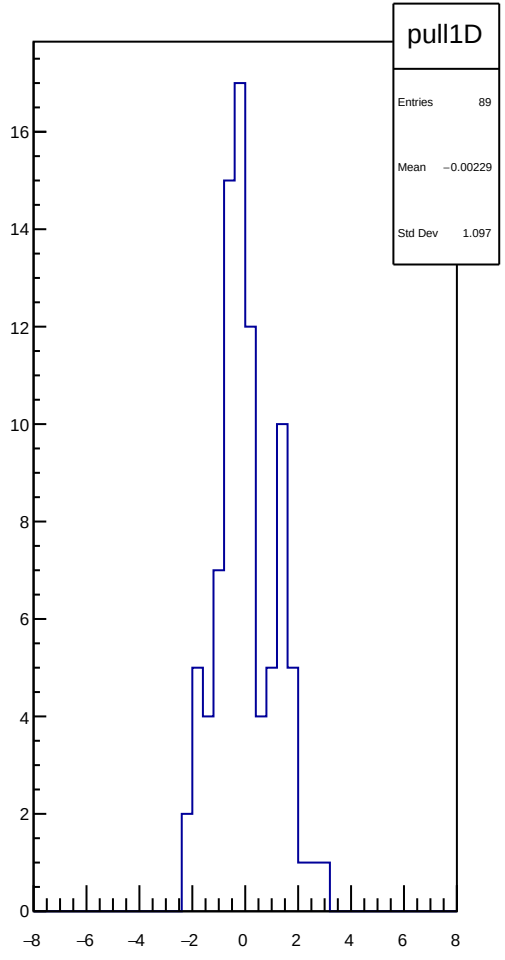


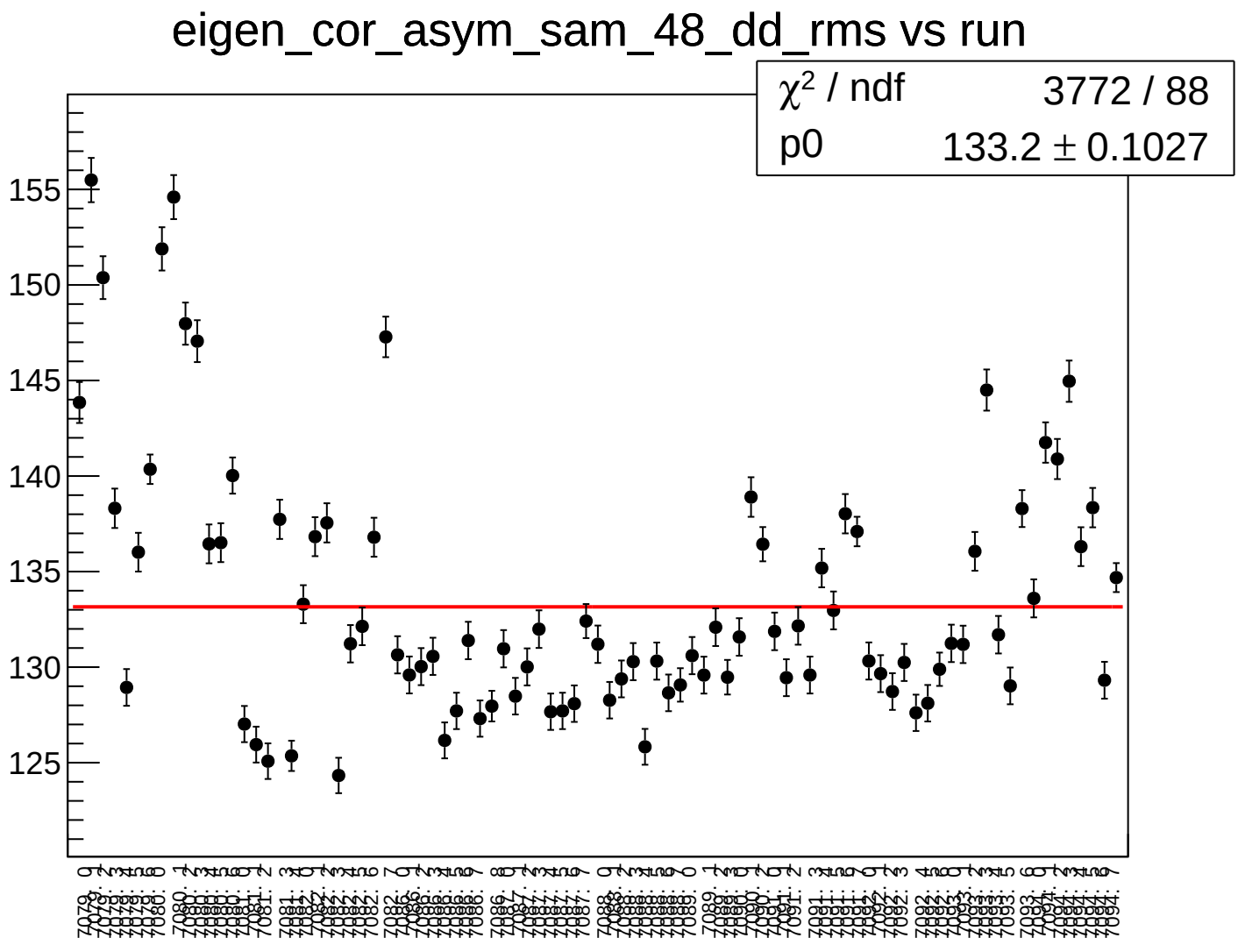

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 81.23 / 88
p0 −493.3 ± 1228
pull
Entries 89
Mean 28.93
Std Dev 0

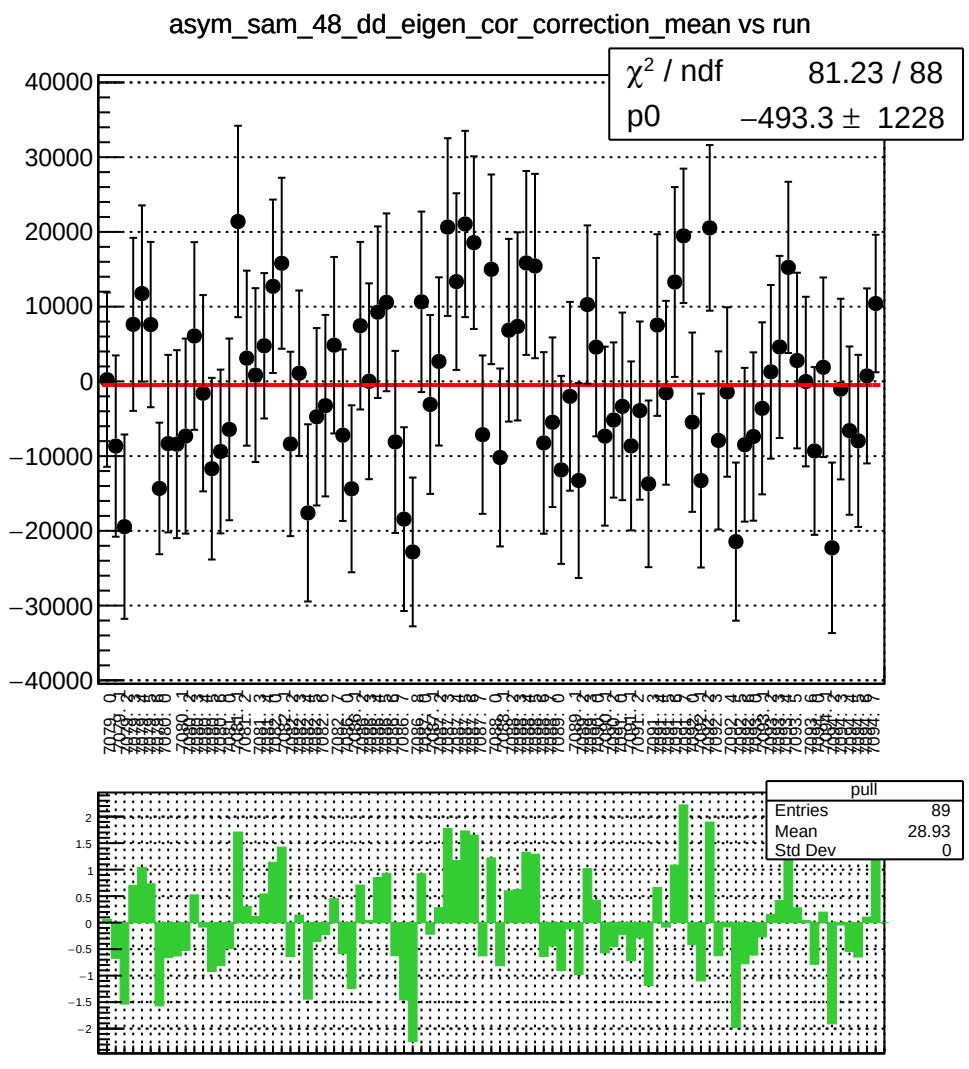

pull1D
Entries 89
Mean 0.00357
Std Dev 0.9554

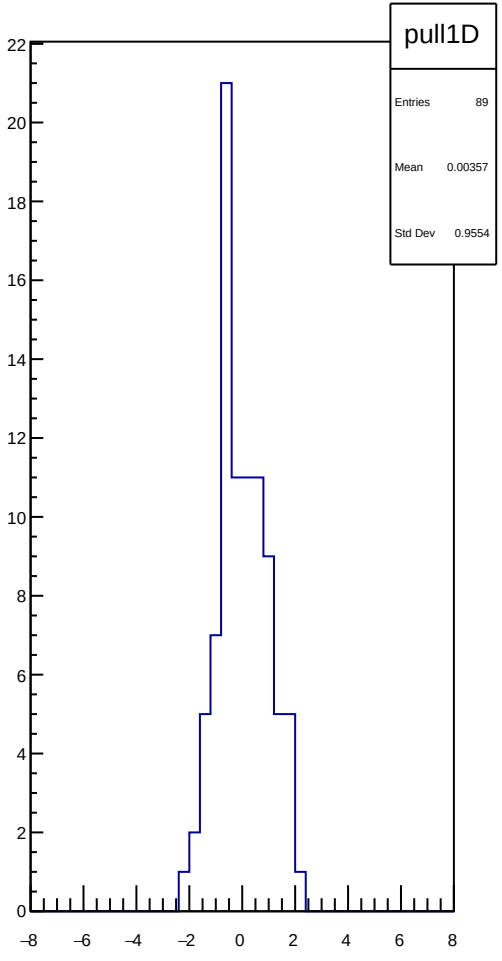

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 3031 / 88
p0 1127 ± 0.8684
1250
1200
1150
1100
1050
1000

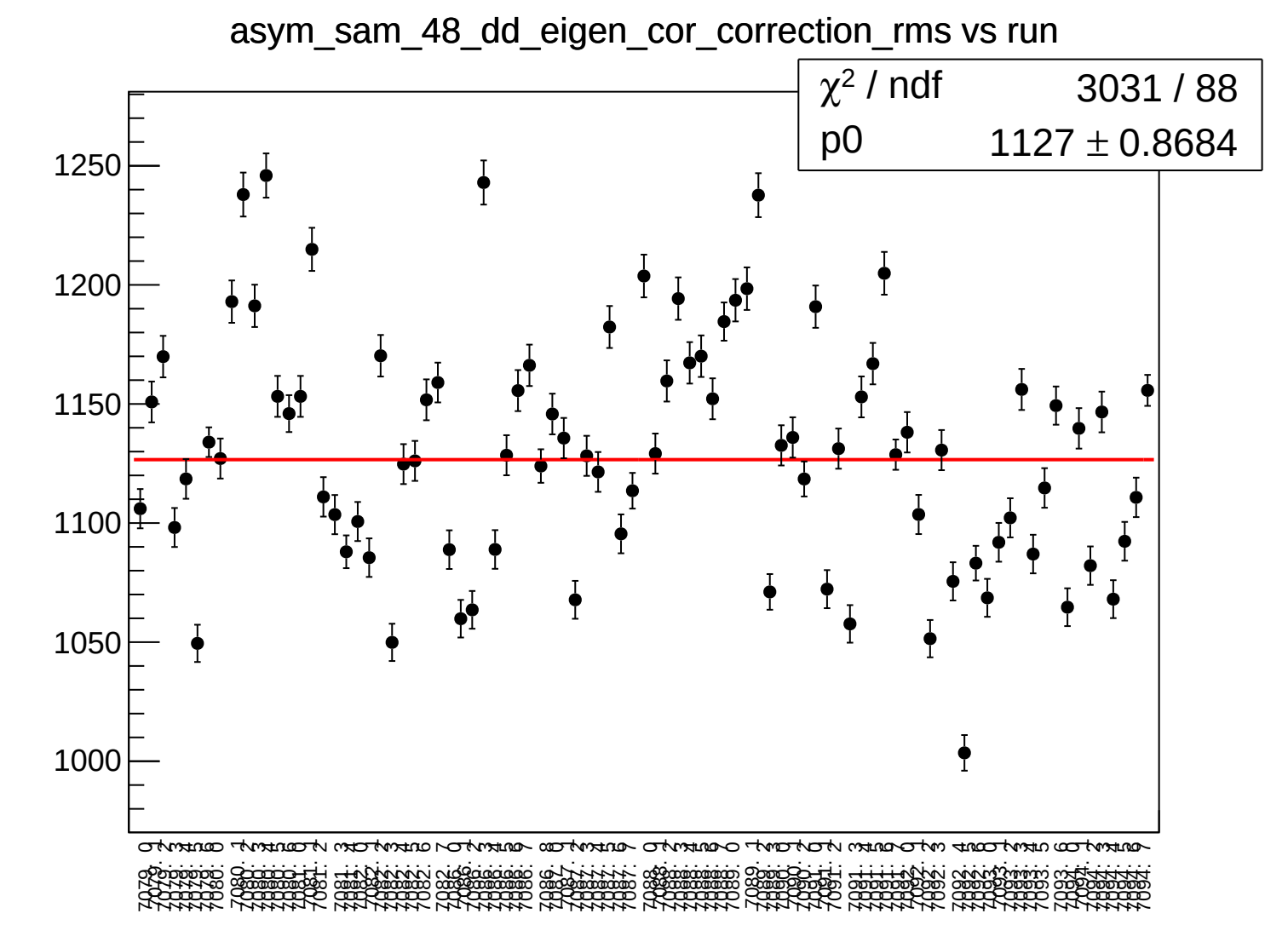

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 107 / 88
p0 96.38 ± 145.2
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −1460
Std Dev 0
3
2
1
0
−1
−2

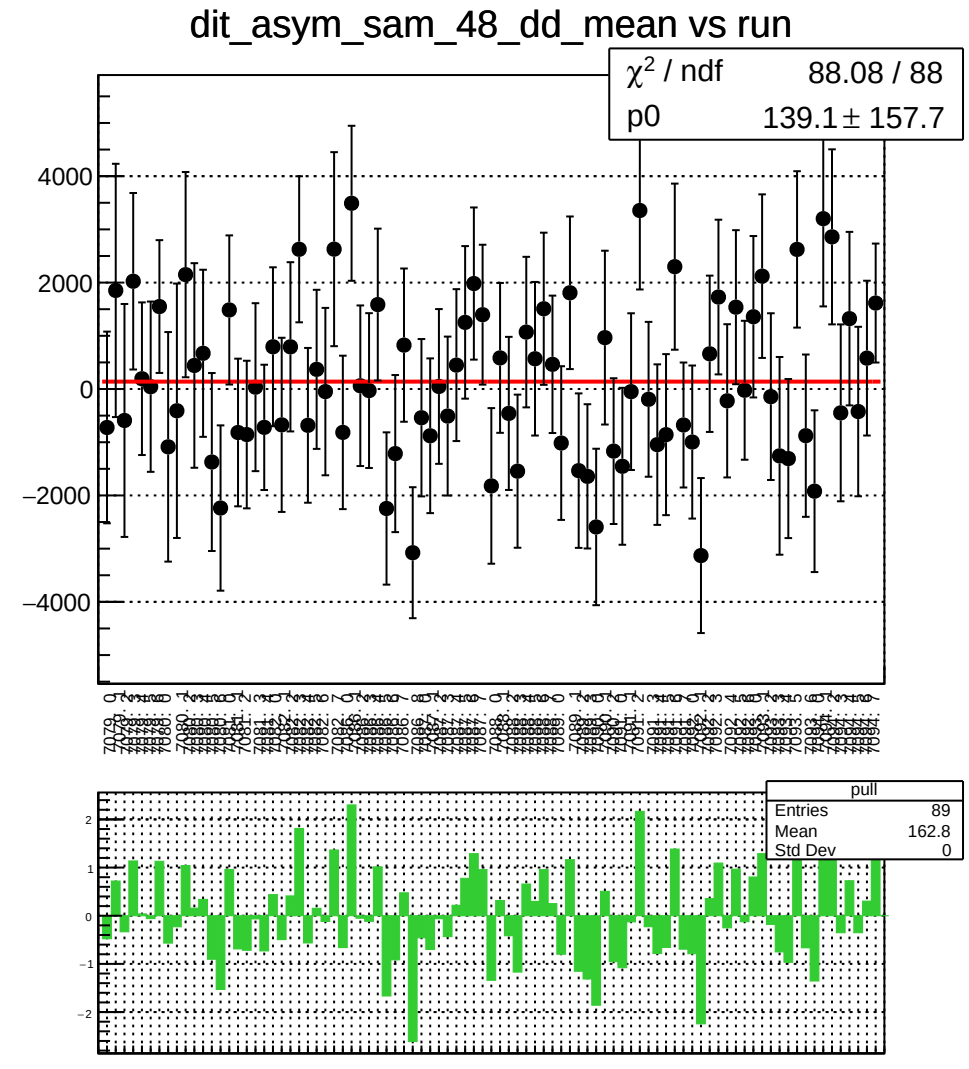

pull1D
Entries 89
Mean −0.00229
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

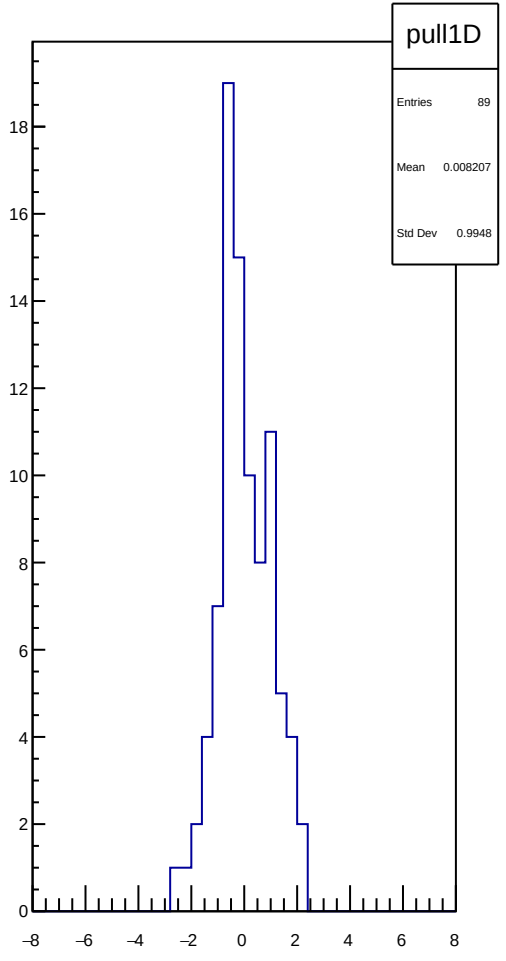

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 3772 / 88
p0 133.2 ± 0.1027
155
150
145
140
135
130
125

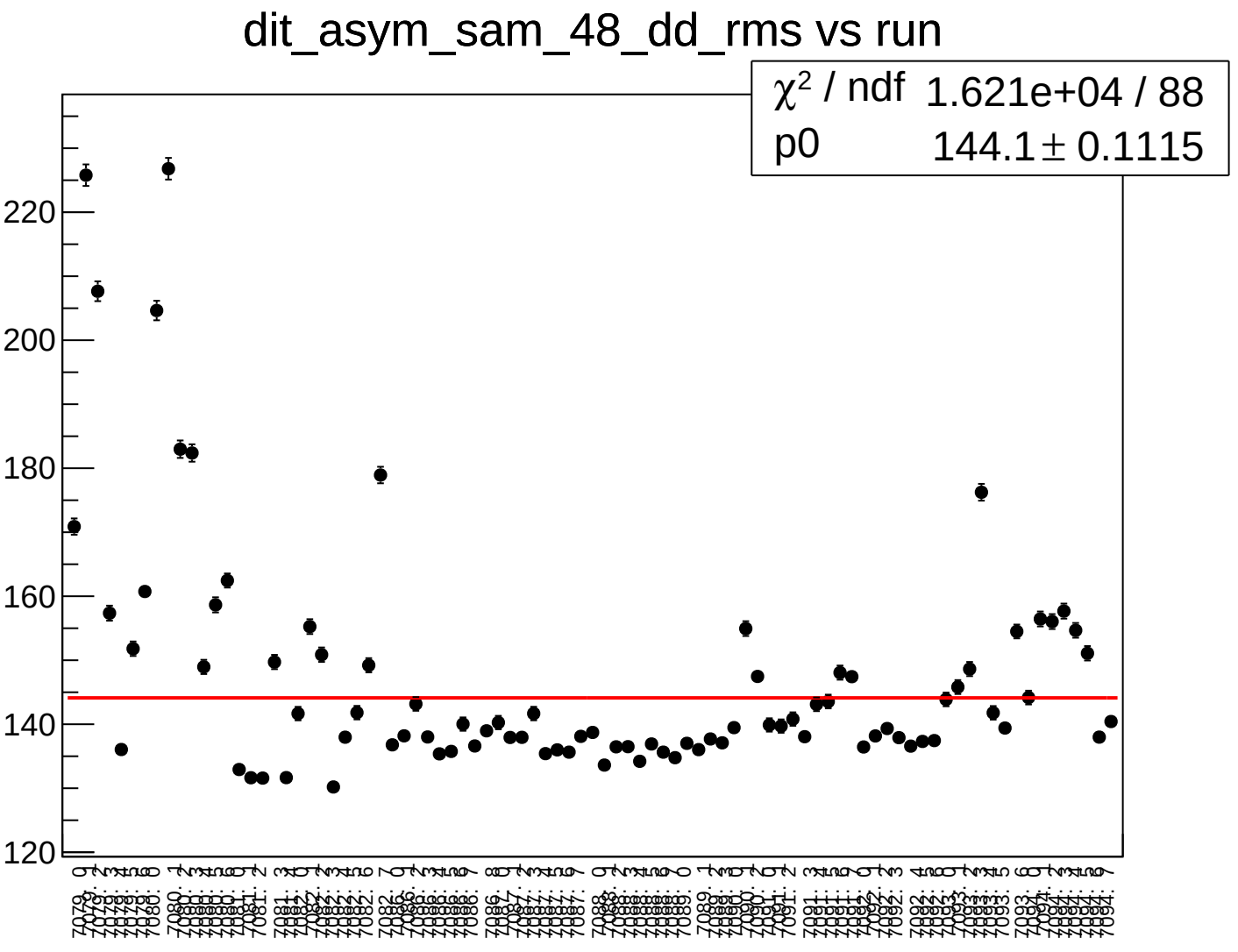

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.23 / 88
p0 −493.3 ± 1228
pull
Entries 89
Mean 28.93
Std Dev 0

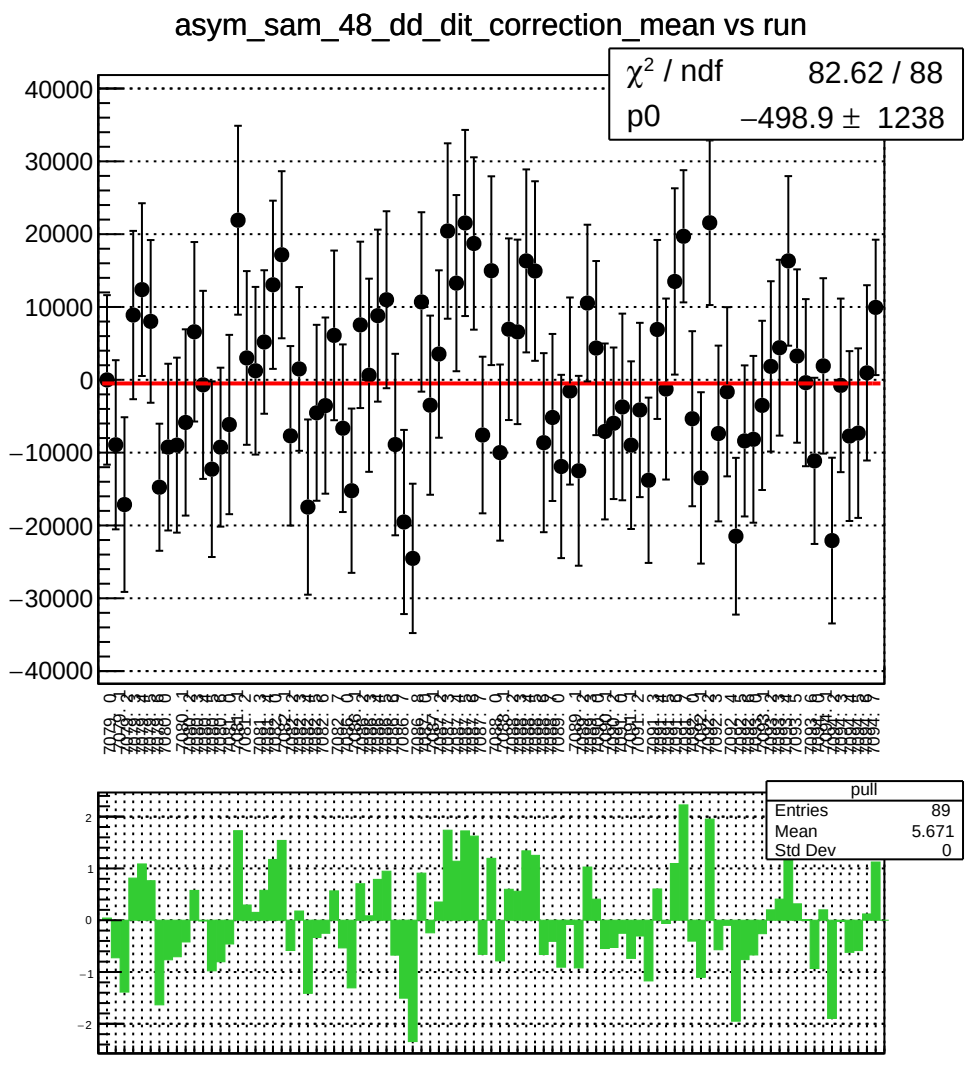

pull1D
Entries 89
Mean 0.00357
Std Dev 0.9554

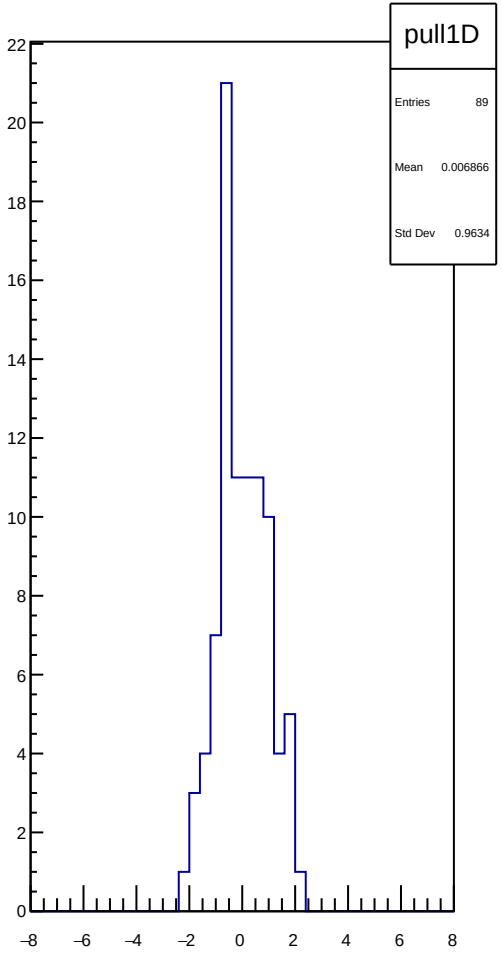

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3031 / 88
p0 1127 ± 0.8684
1250
1200
1150
1100
1050
1000

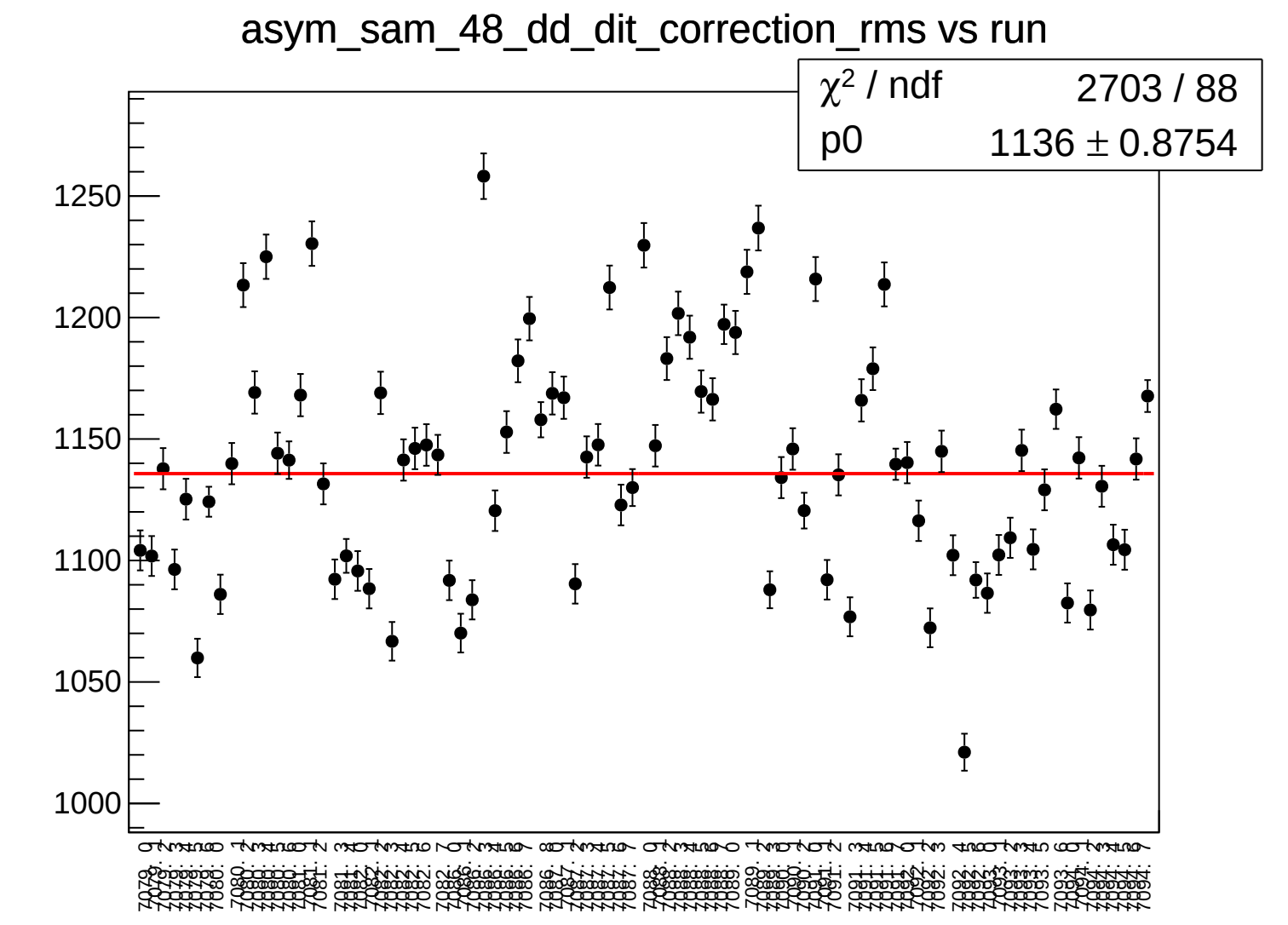

dit_asym_sam_48_dd_mean vs run
χ² / ndf 88.08 / 88
p0 139.1 ± 157.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 162.8
Std Dev 0
2
1
0
−1
−2

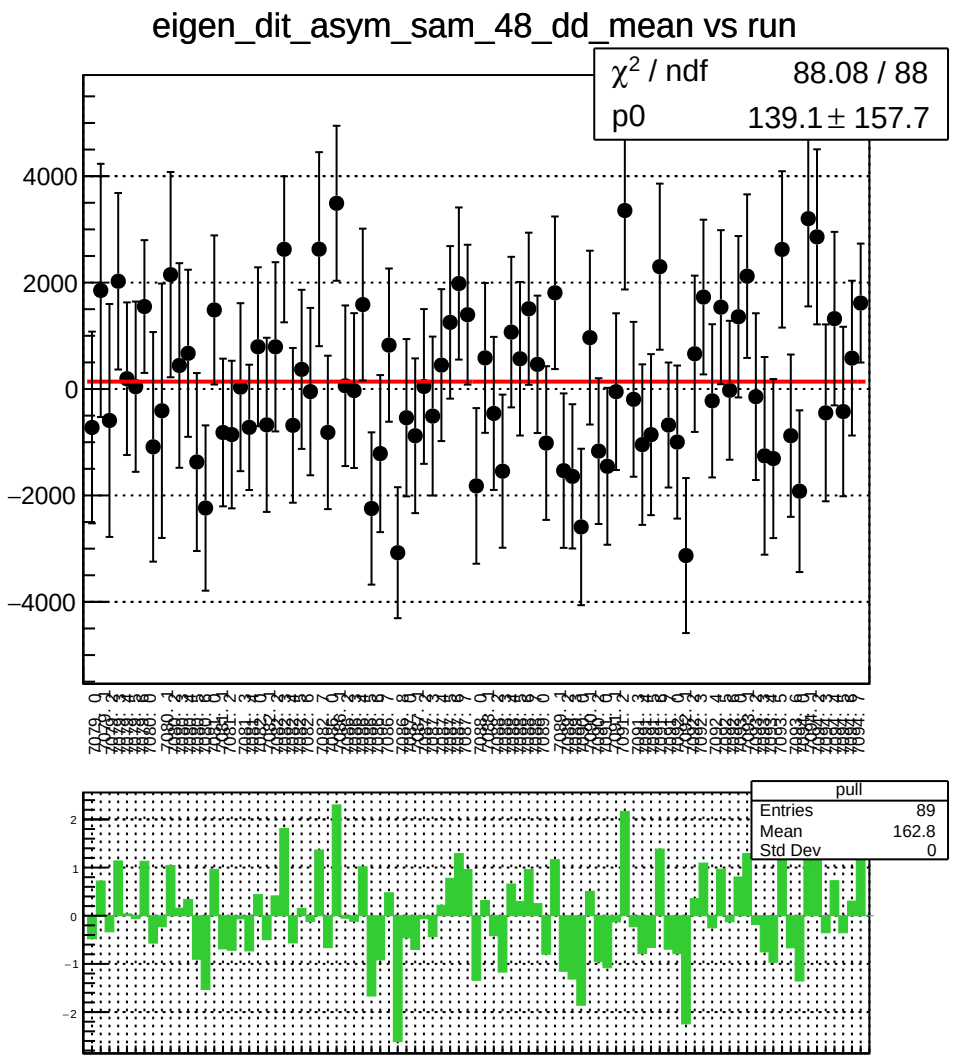

pull1D
Entries 89
Mean 0.008207
Std Dev 0.9948
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

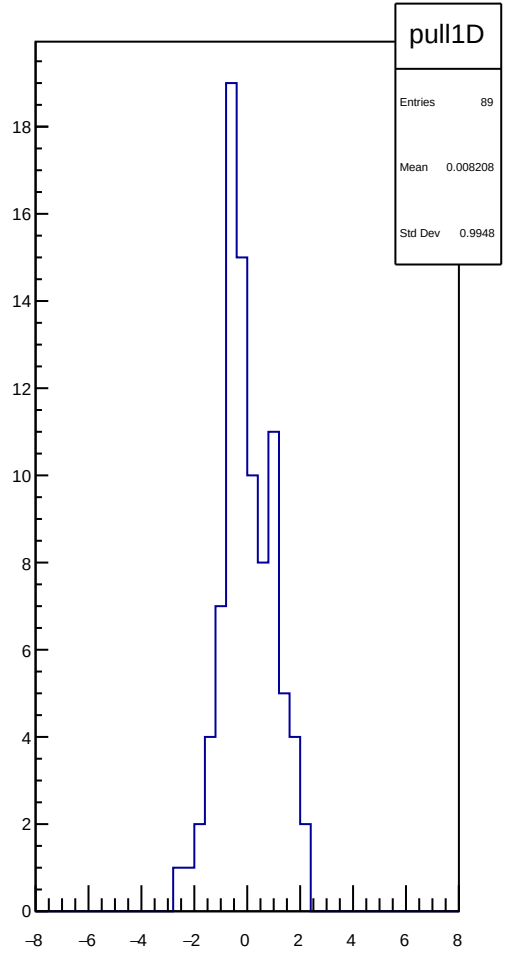

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.621e+04 / 88
p0 144.1 ± 0.1115
220
200
180
160
140
120

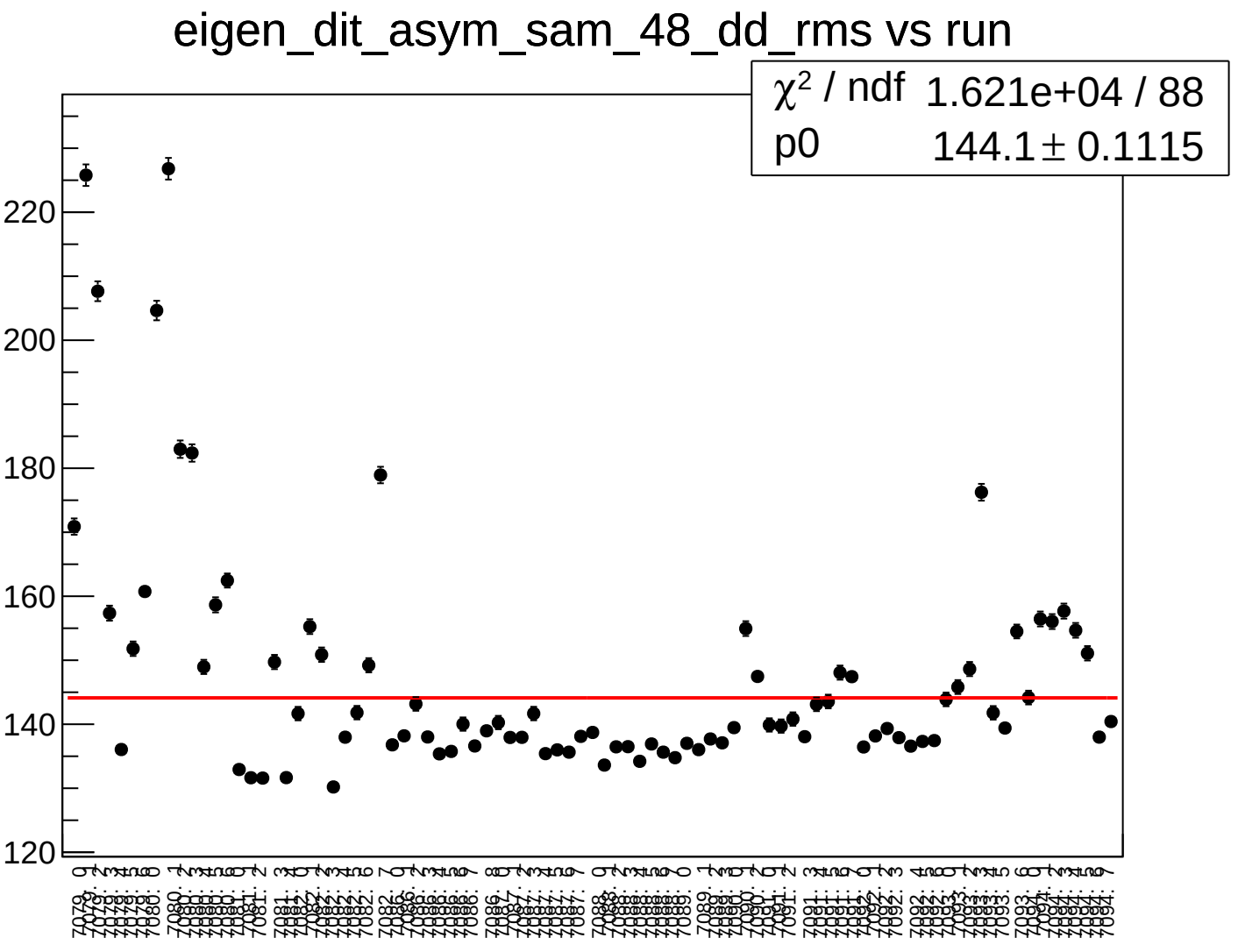

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 82.62 / 88
p0 −498.9 ± 1238
pull
Entries 89
Mean 5.671
Std Dev 0

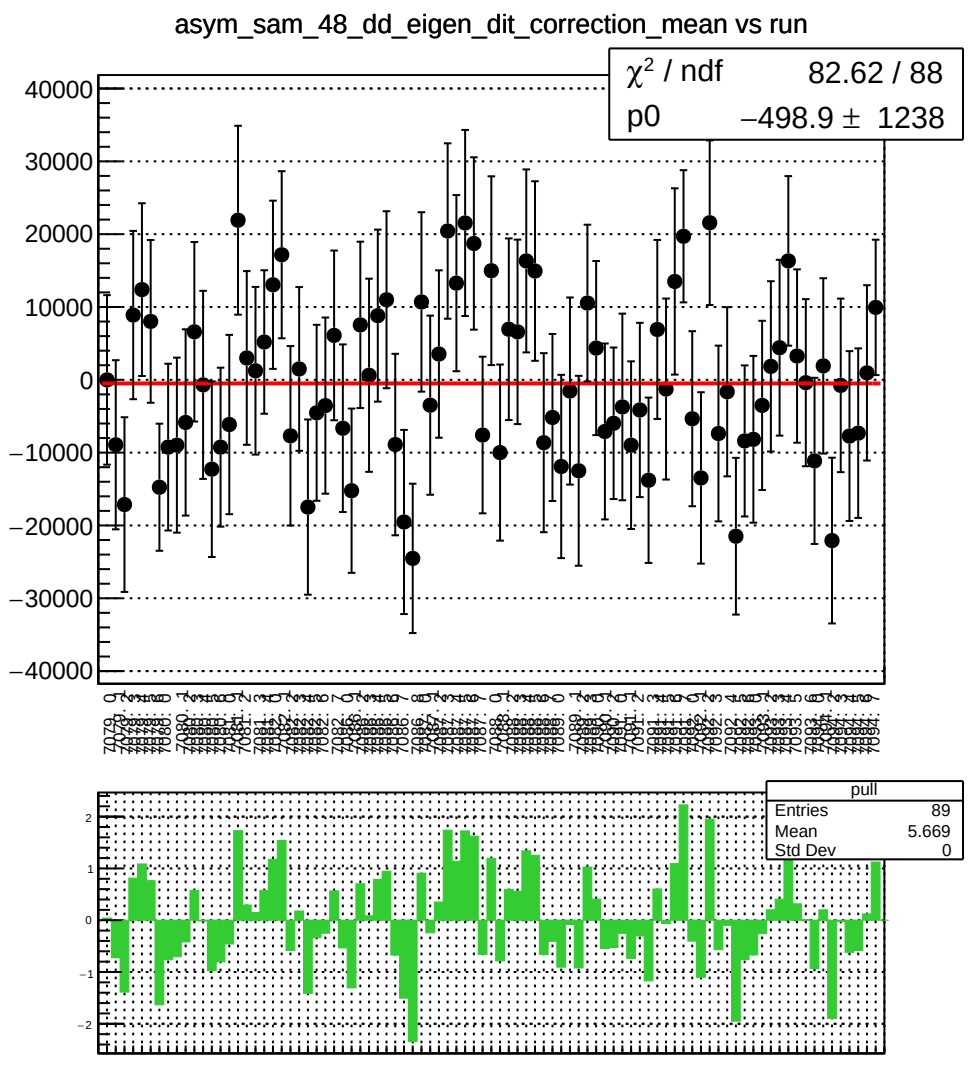

pull1D
Entries 89
Mean 0.006866
Std Dev 0.9634

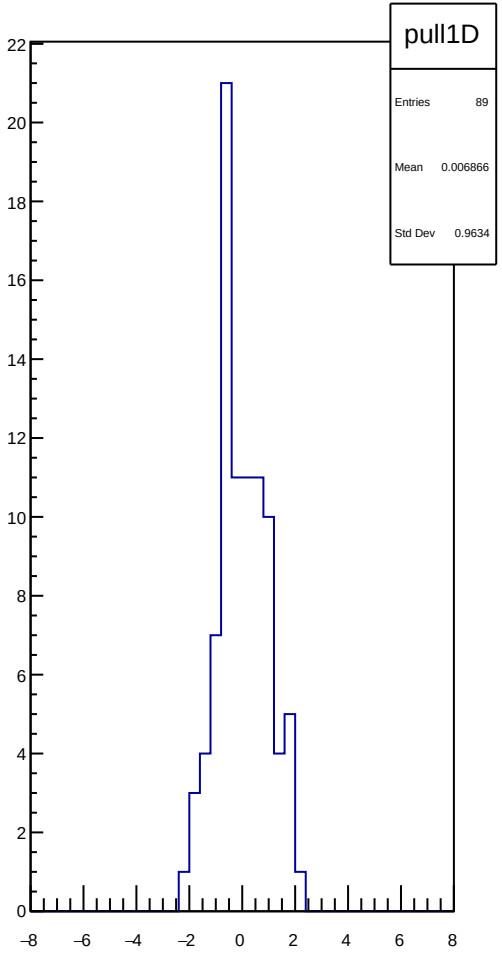

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2703 / 88
p0 1136 ± 0.8754
1250
1200
1150
1100
1050
1000

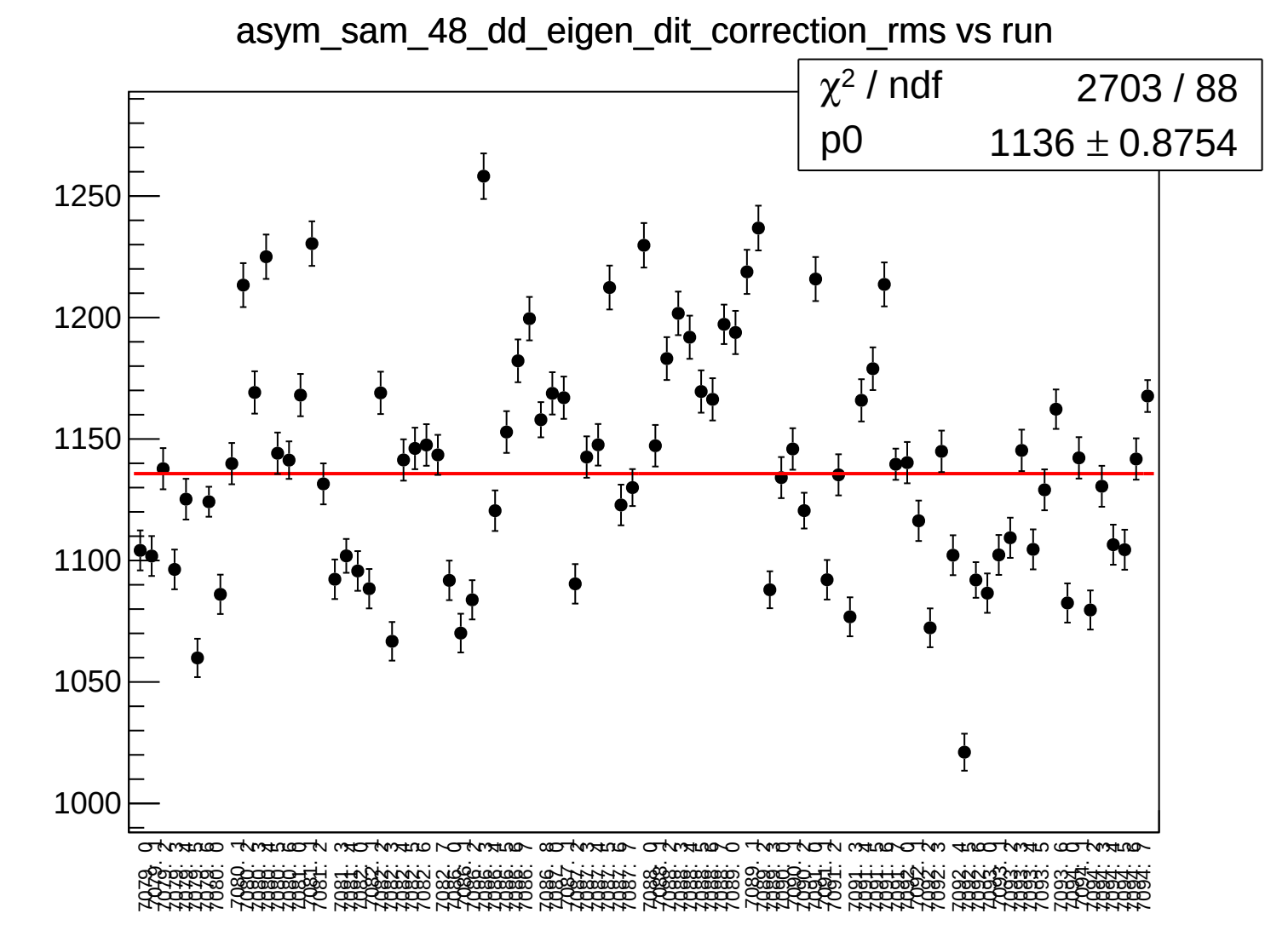

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 88.08 / 88
p0 139.1 ± 157.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 162.8
Std Dev 0
2
1
0
−1
−2

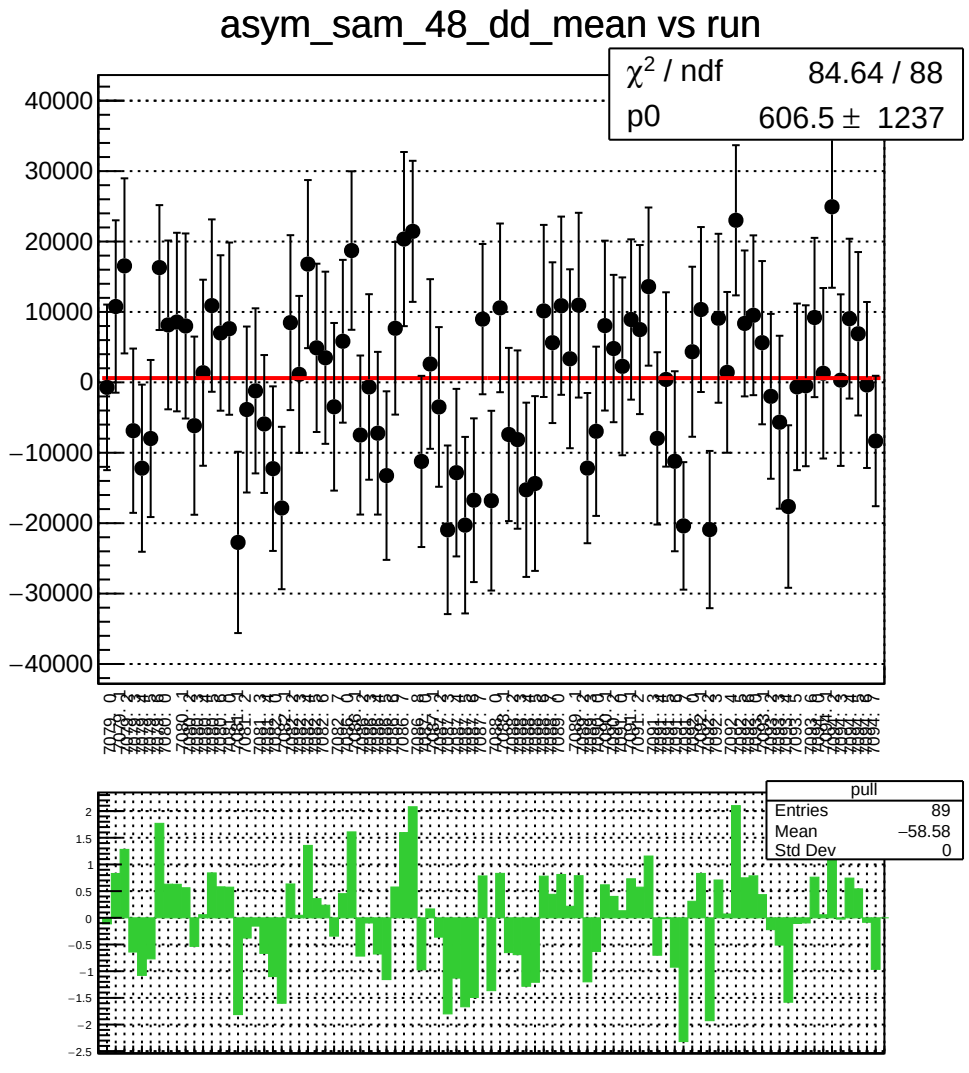

pull1D
Entries 89
Mean 0.008208
Std Dev 0.9948
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

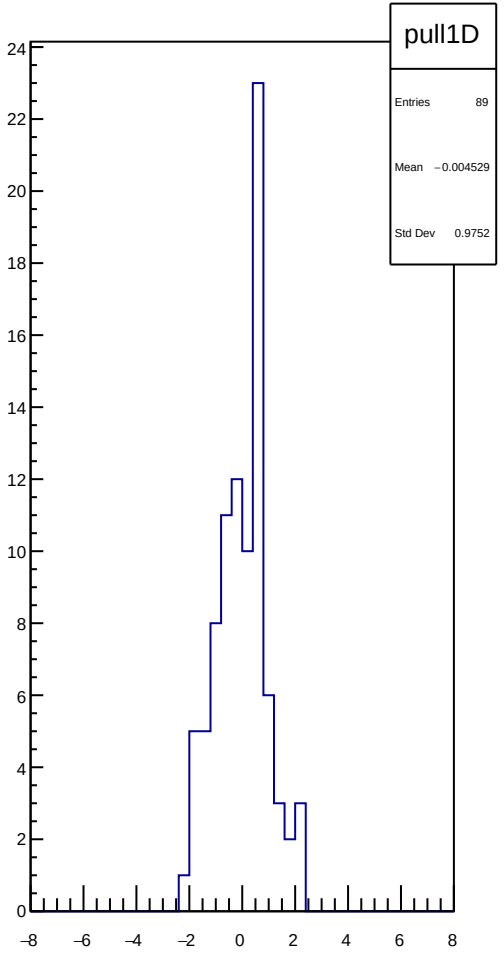

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.621e+04 / 88
p0 144.1 ± 0.1115
220
200
180
160
140
120

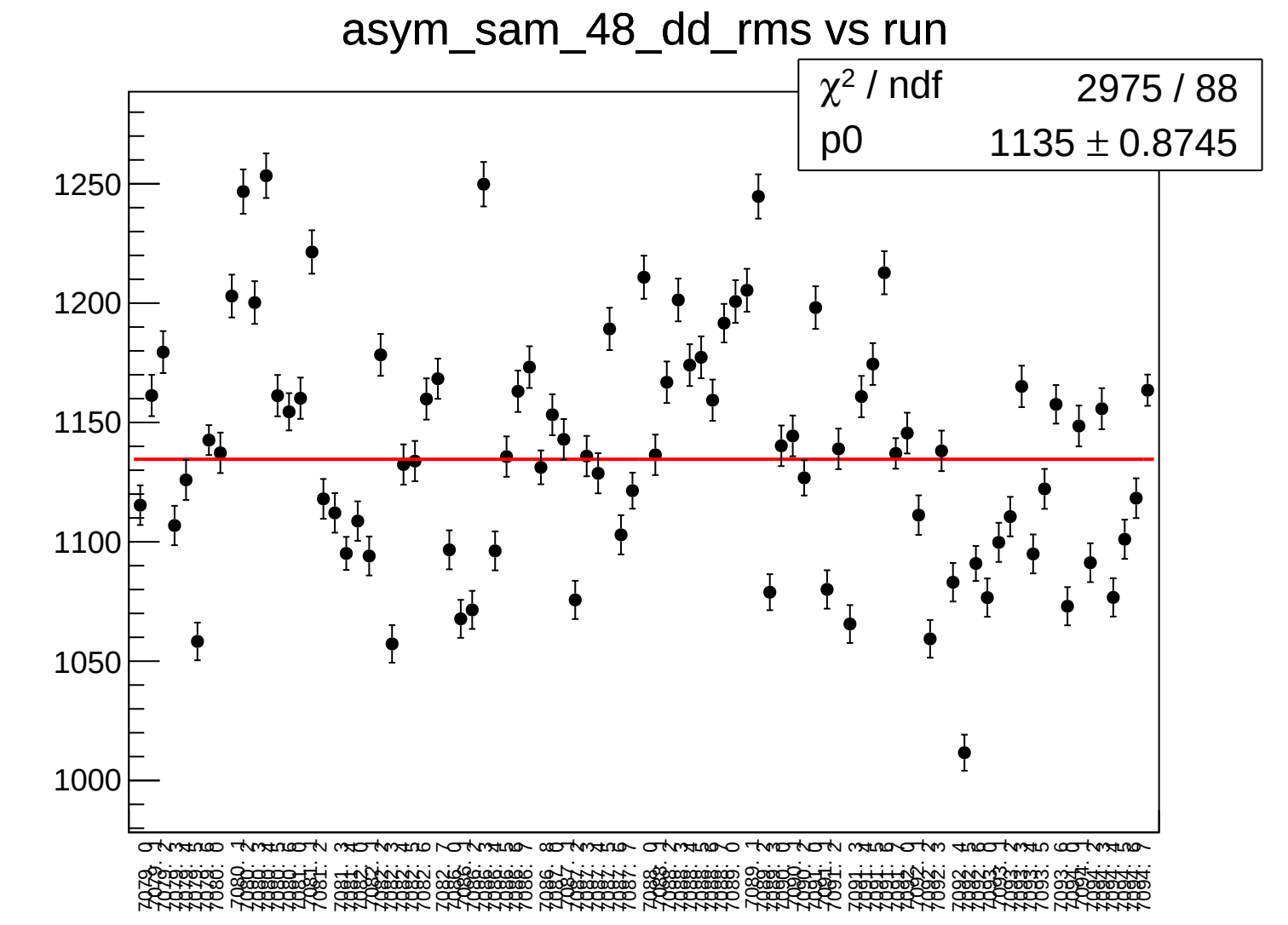

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.62 / 88
p0 −498.9 ± 1238
pull
Entries 89
Mean 5.669
Std Dev 0

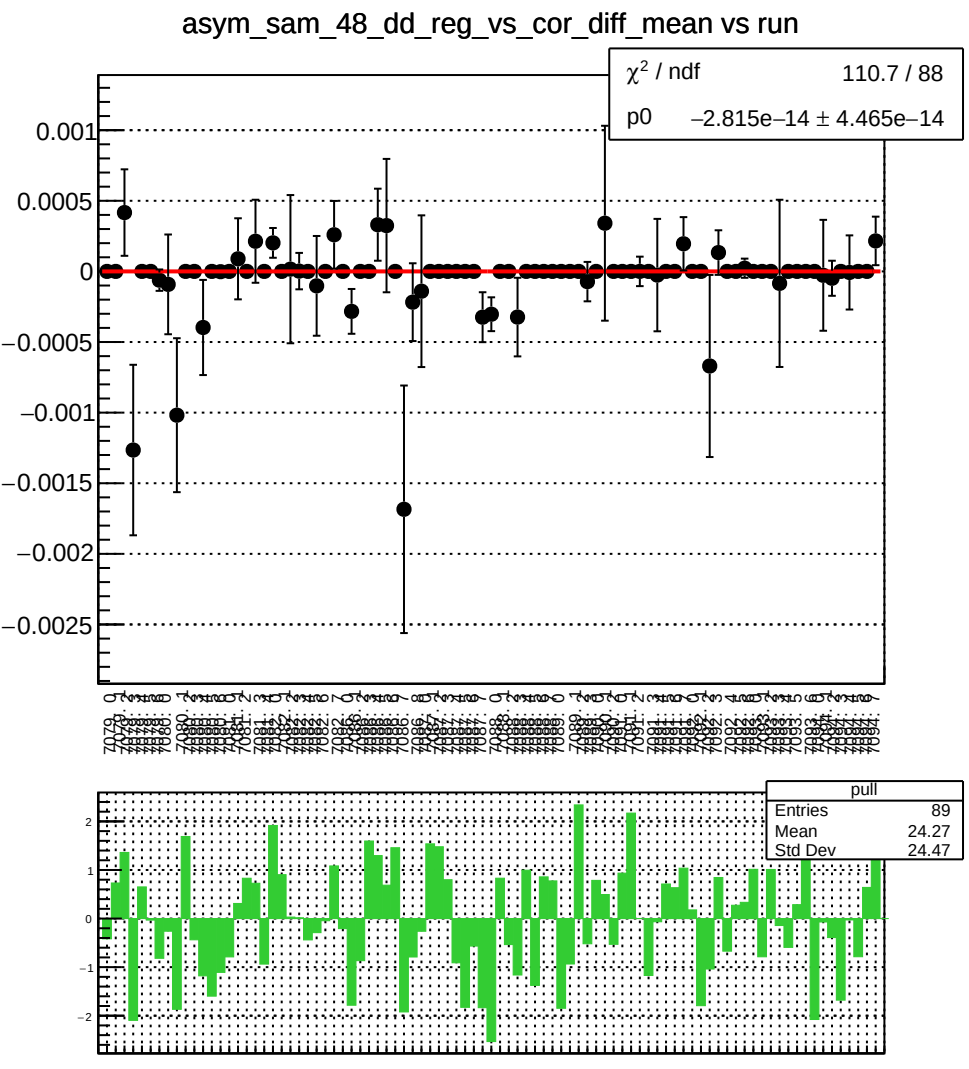

pull1D
Entries 89
Mean 0.006866
Std Dev 0.9634

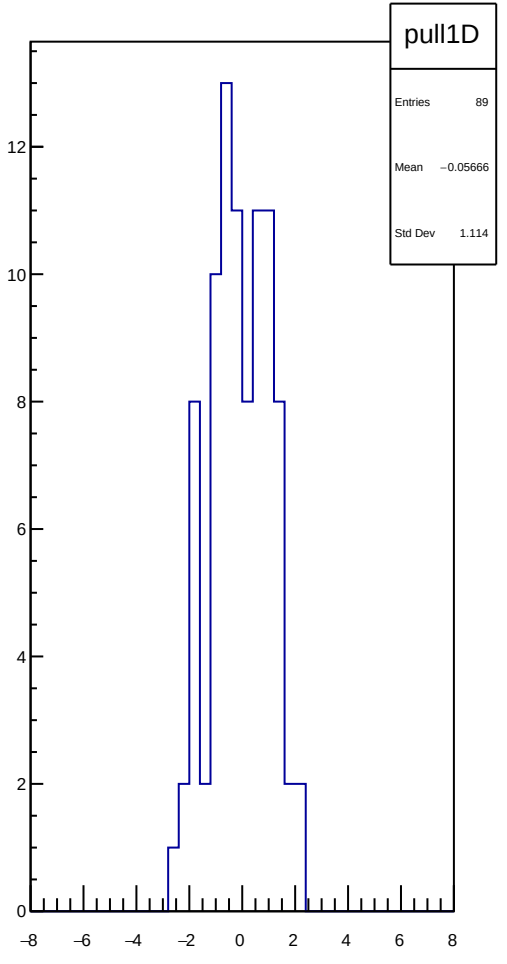

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2703 / 88
p0 1136 ± 0.8754
1250
1200
1150
1100
1050
1000

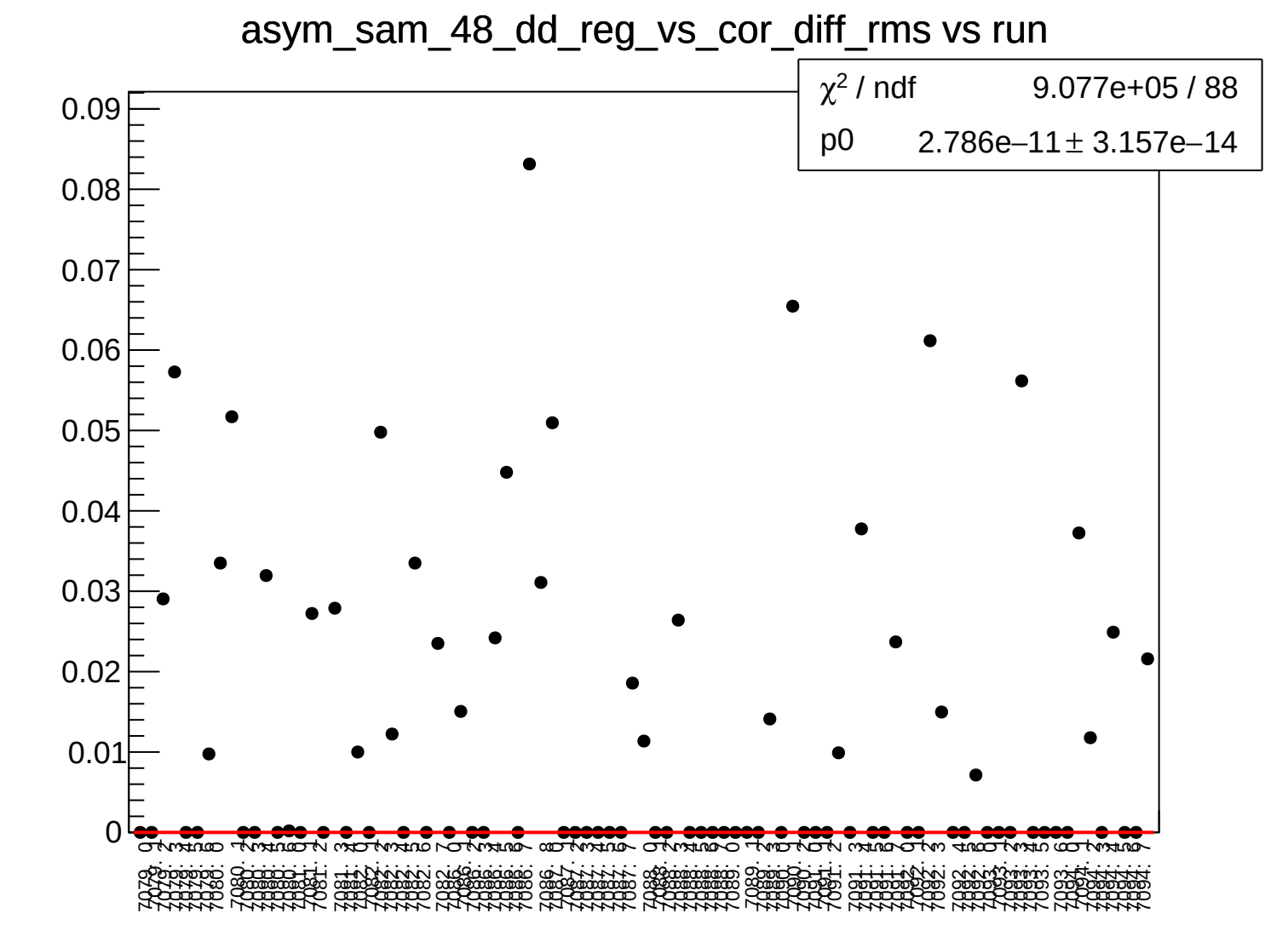

asym_sam_48_dd_mean vs run
χ² / ndf 84.64 / 88
p0 606.5 ± 1237
pull
Entries 89
Mean −58.58
Std Dev 0

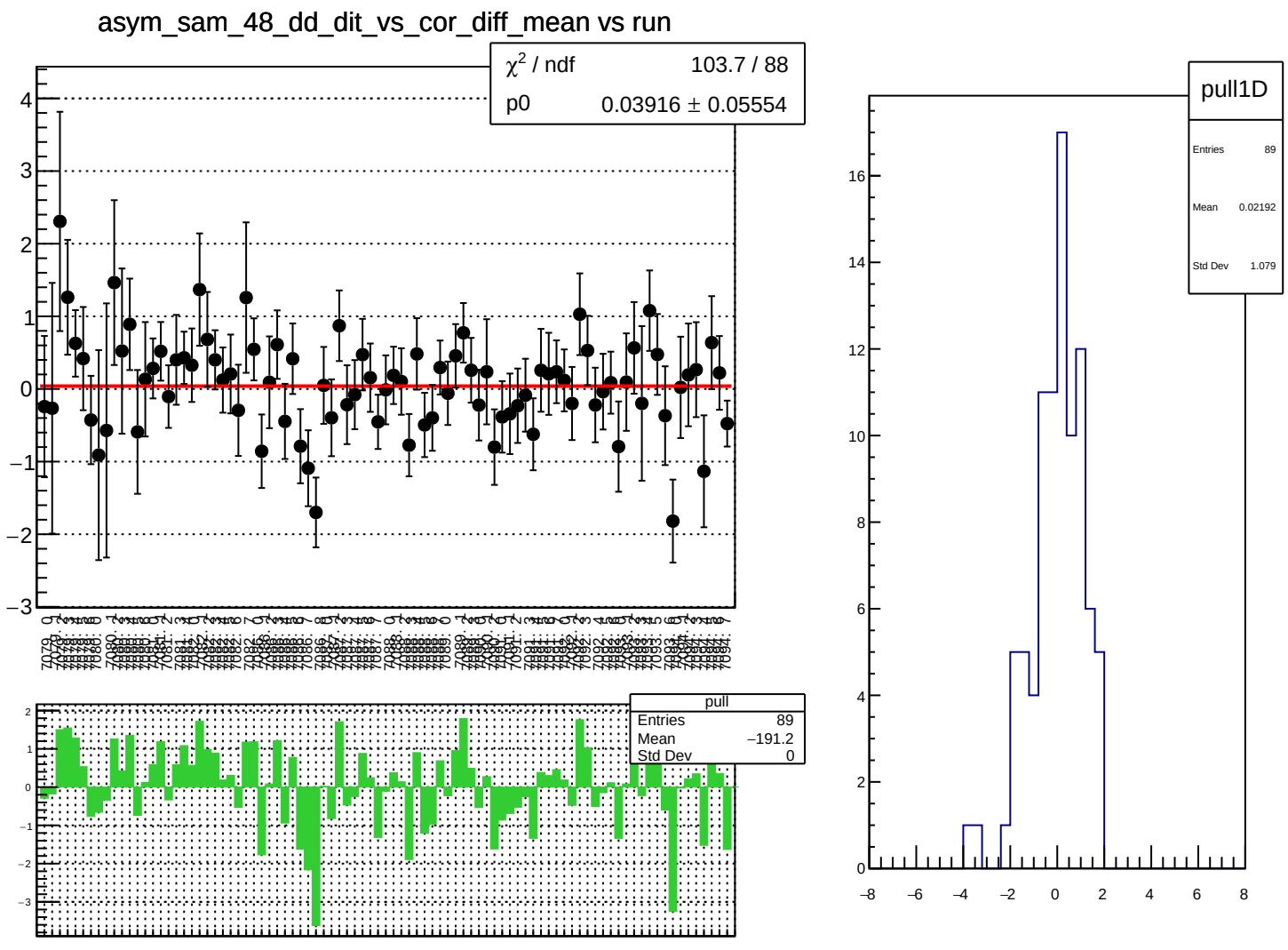

pull1D
Entries 89
Mean −0.004529
Std Dev 0.9752

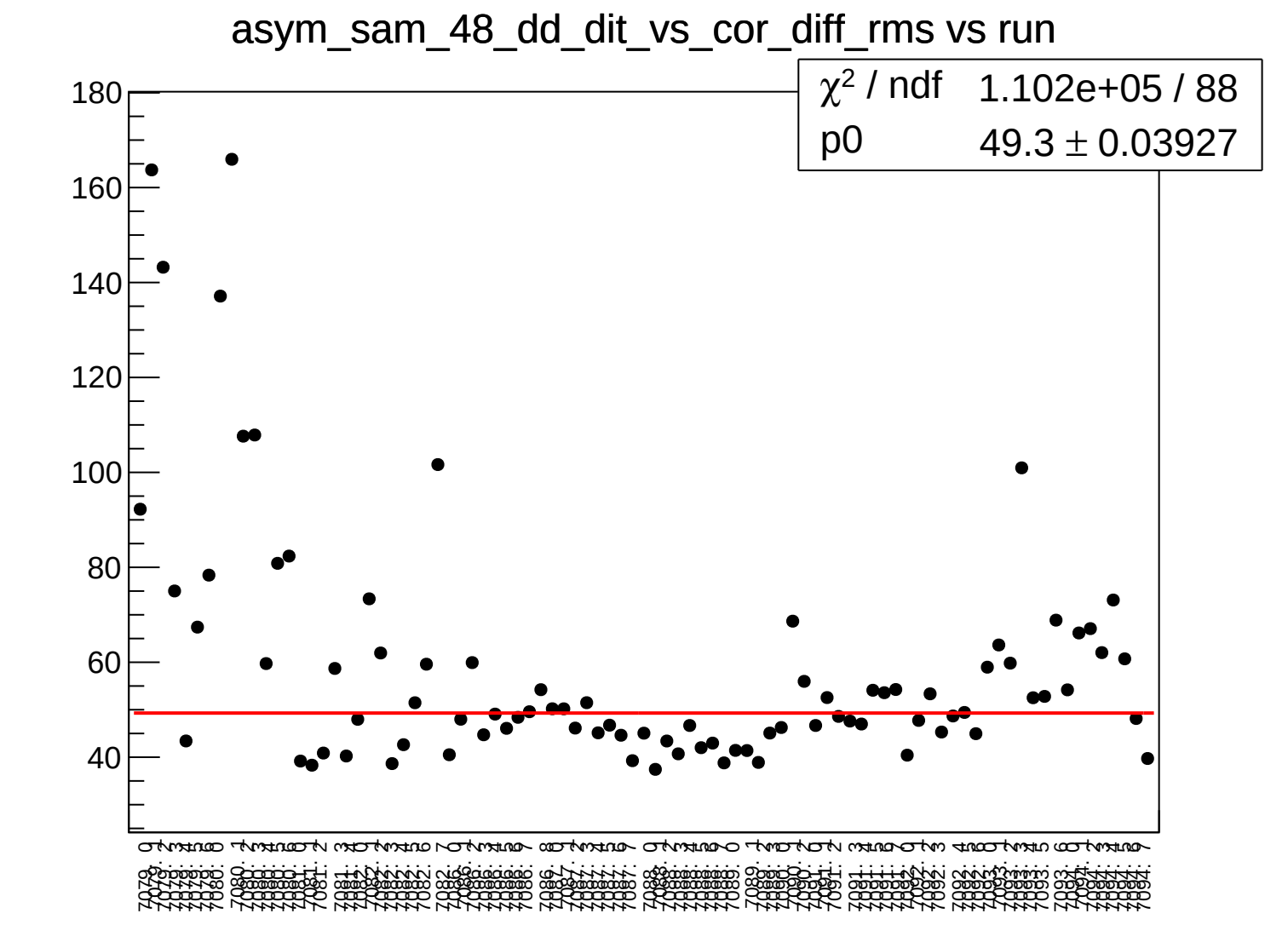

asym_sam_48_dd_rms vs run
χ² / ndf 2975 / 88
p0 1135 ± 0.8745
1250
1200
1150
1100
1050
1000

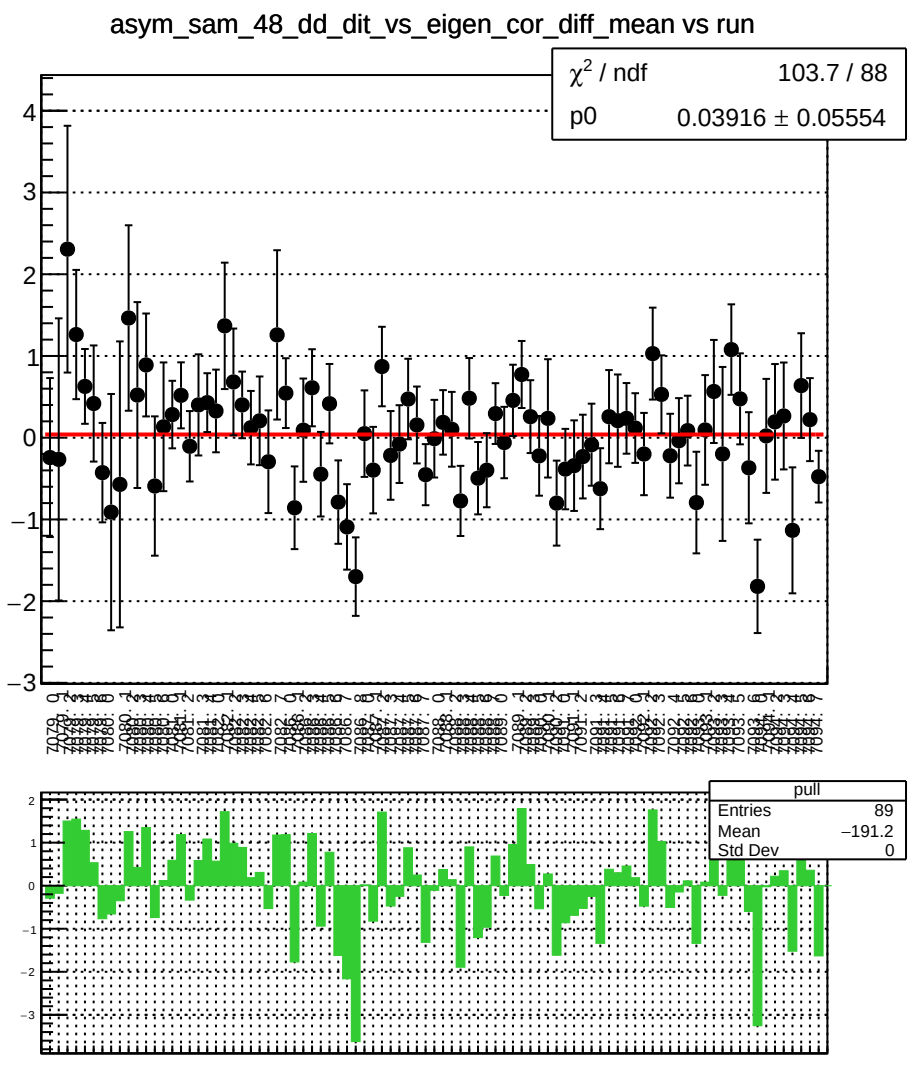

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 88
p0 −2.815e−14 ± 4.465e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 89
Mean 24.27
Std Dev 24.47
2
1
0
−1
−2

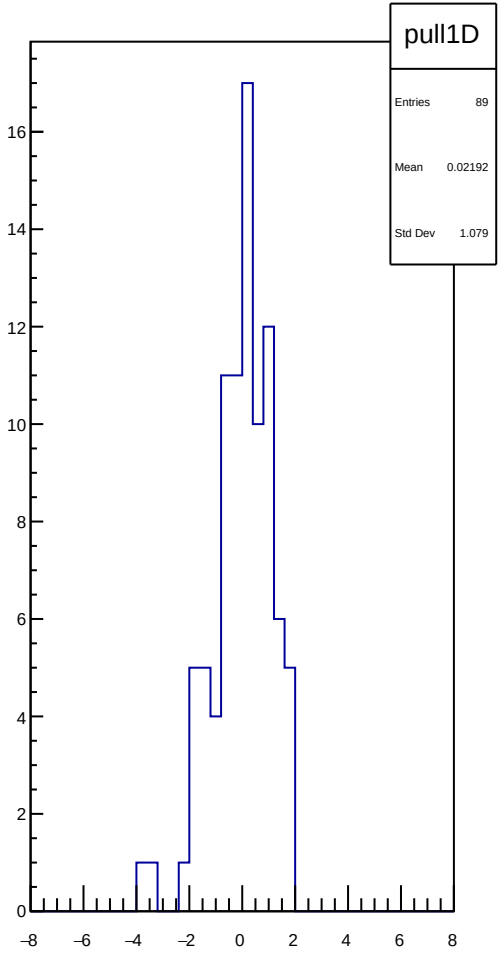

pull1D
Entries 89
Mean −0.05666
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

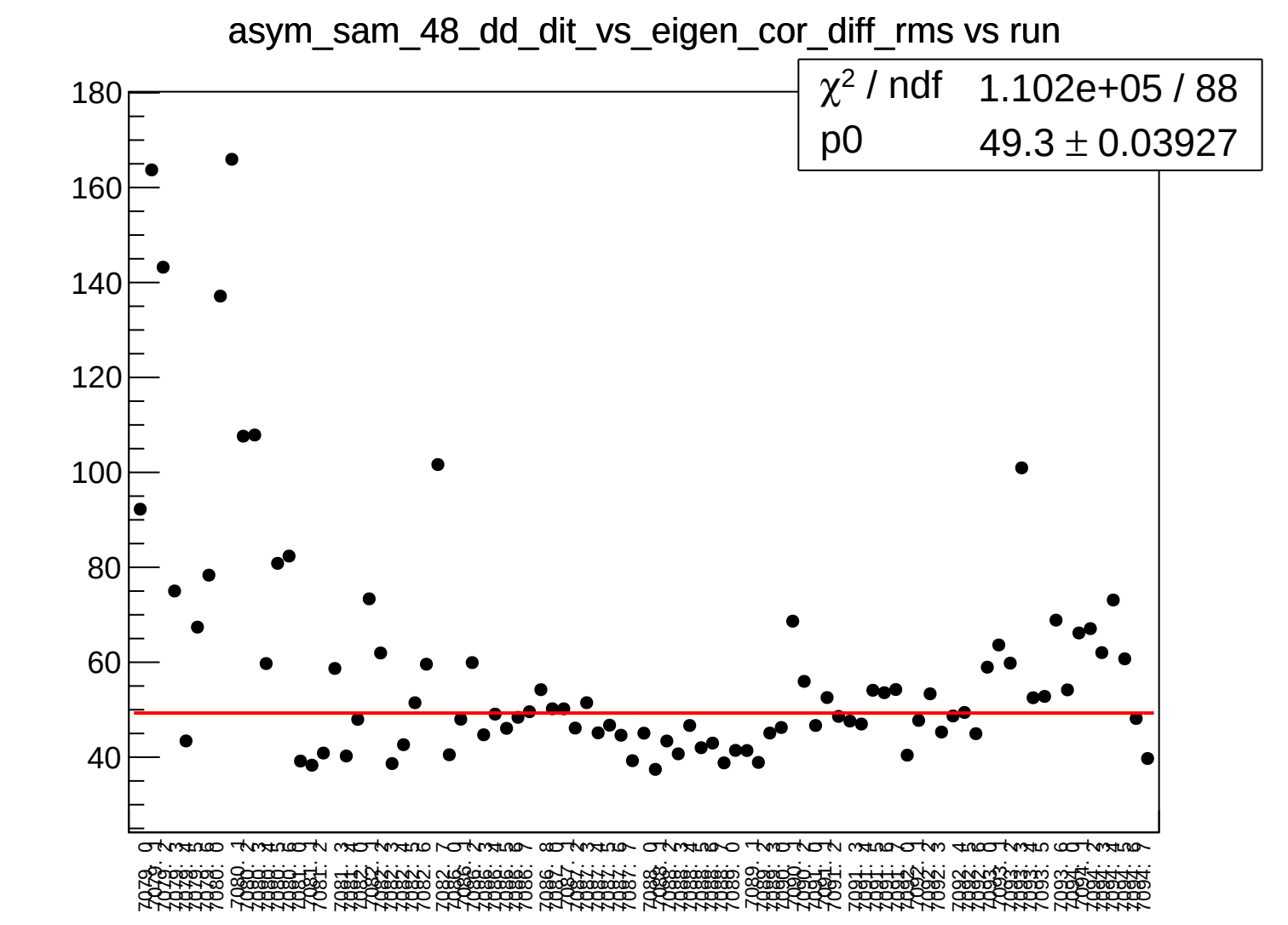

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.077e+05 / 88
p0 2.786e−11 ± 3.157e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

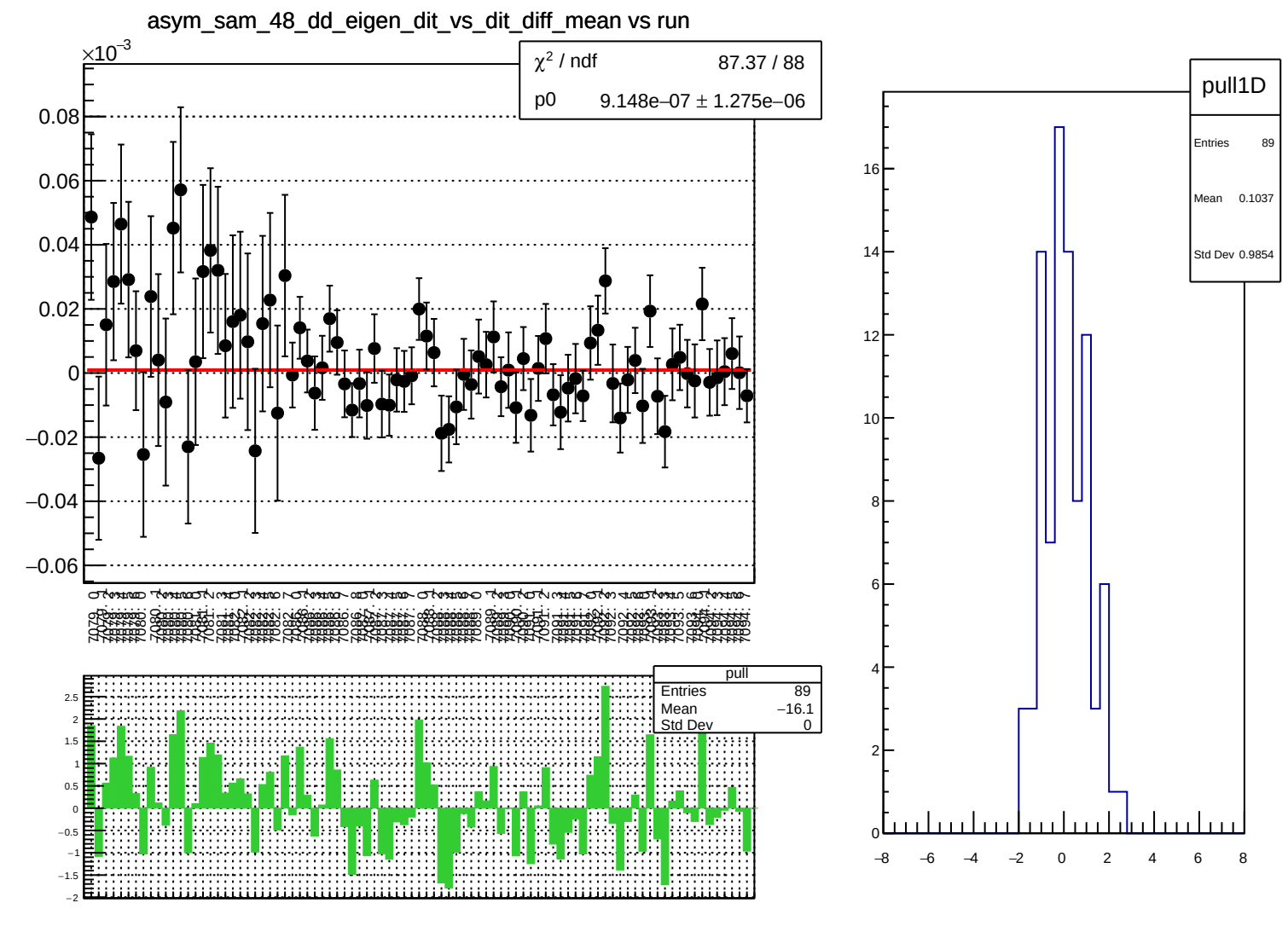

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 88
p0 0.03916 ± 0.05554
pull
Entries 89
Mean −191.2
Std Dev 0
pull1D
Entries 89
Mean 0.02192
Std Dev 1.079

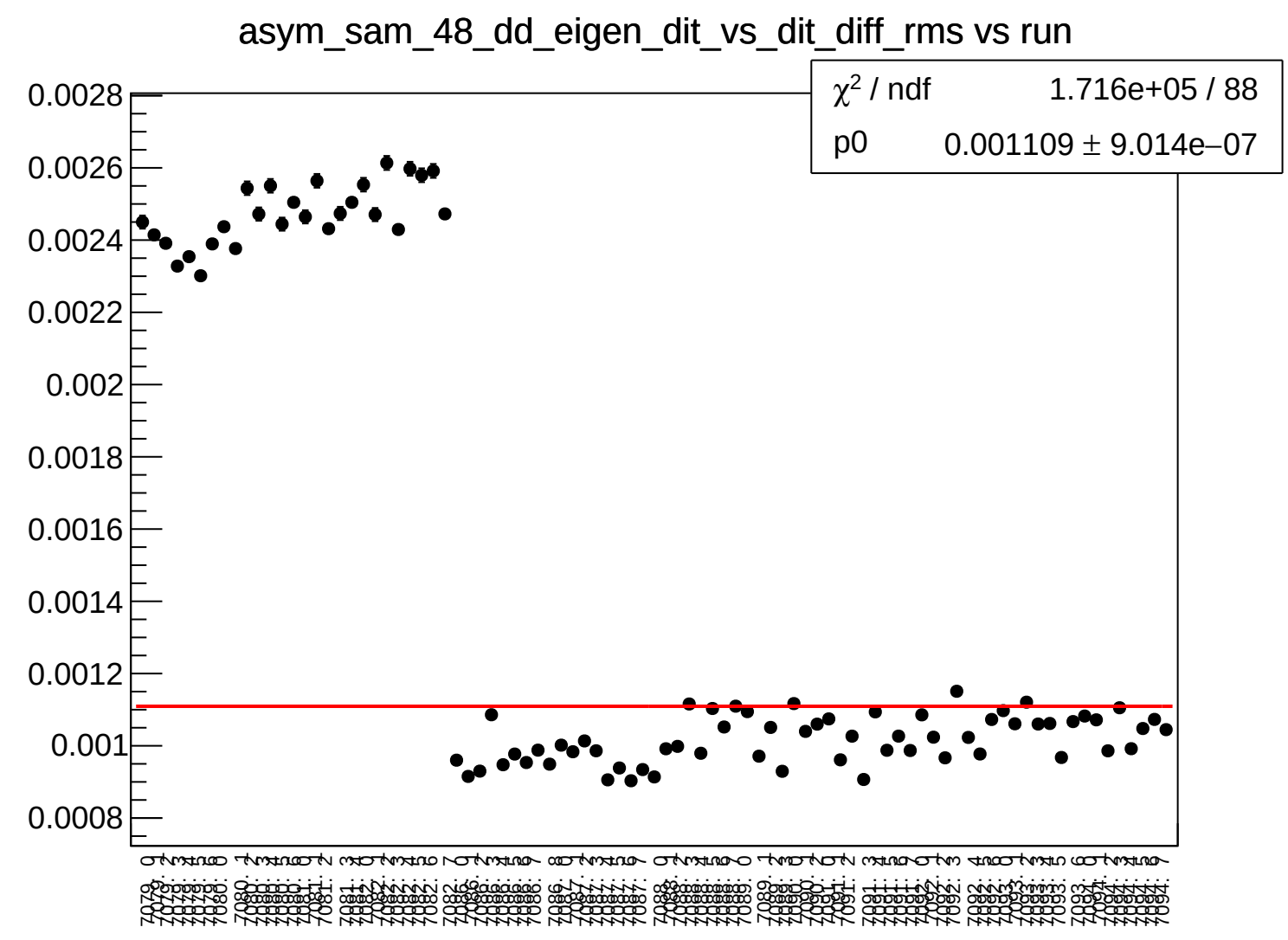

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.102e+05 / 88
p0 49.3 ± 0.03927
180
160
140
120
100
80
60
40

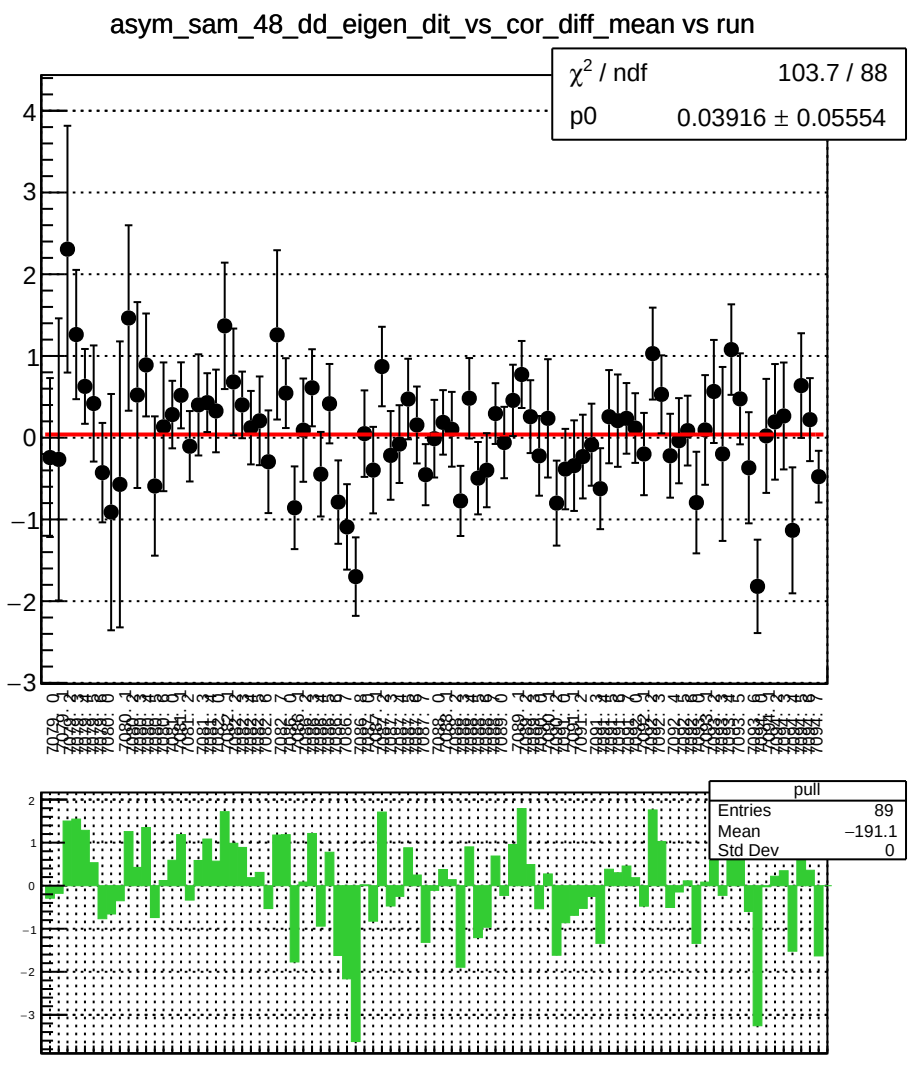

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 88
p0 0.03916 ± 0.05554
pull
Entries 89
Mean −191.2
Std Dev 0

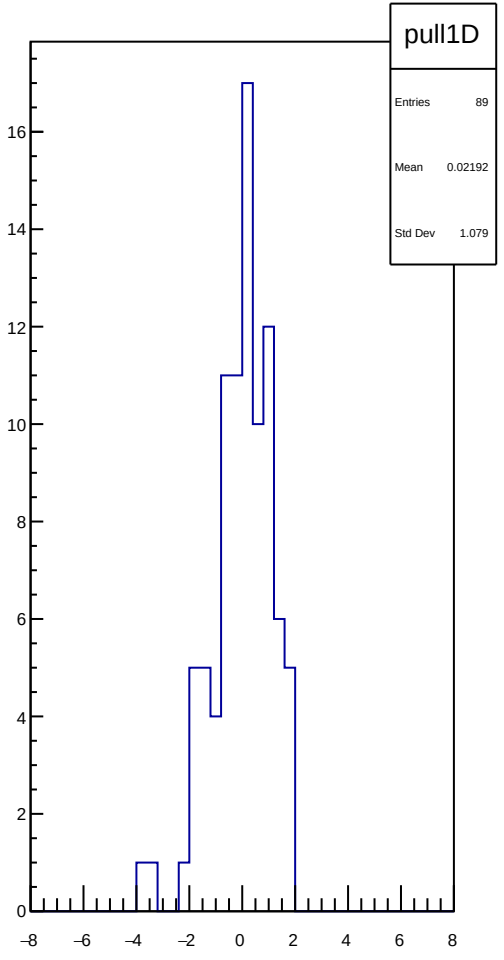

pull1D
Entries 89
Mean 0.02192
Std Dev 1.079

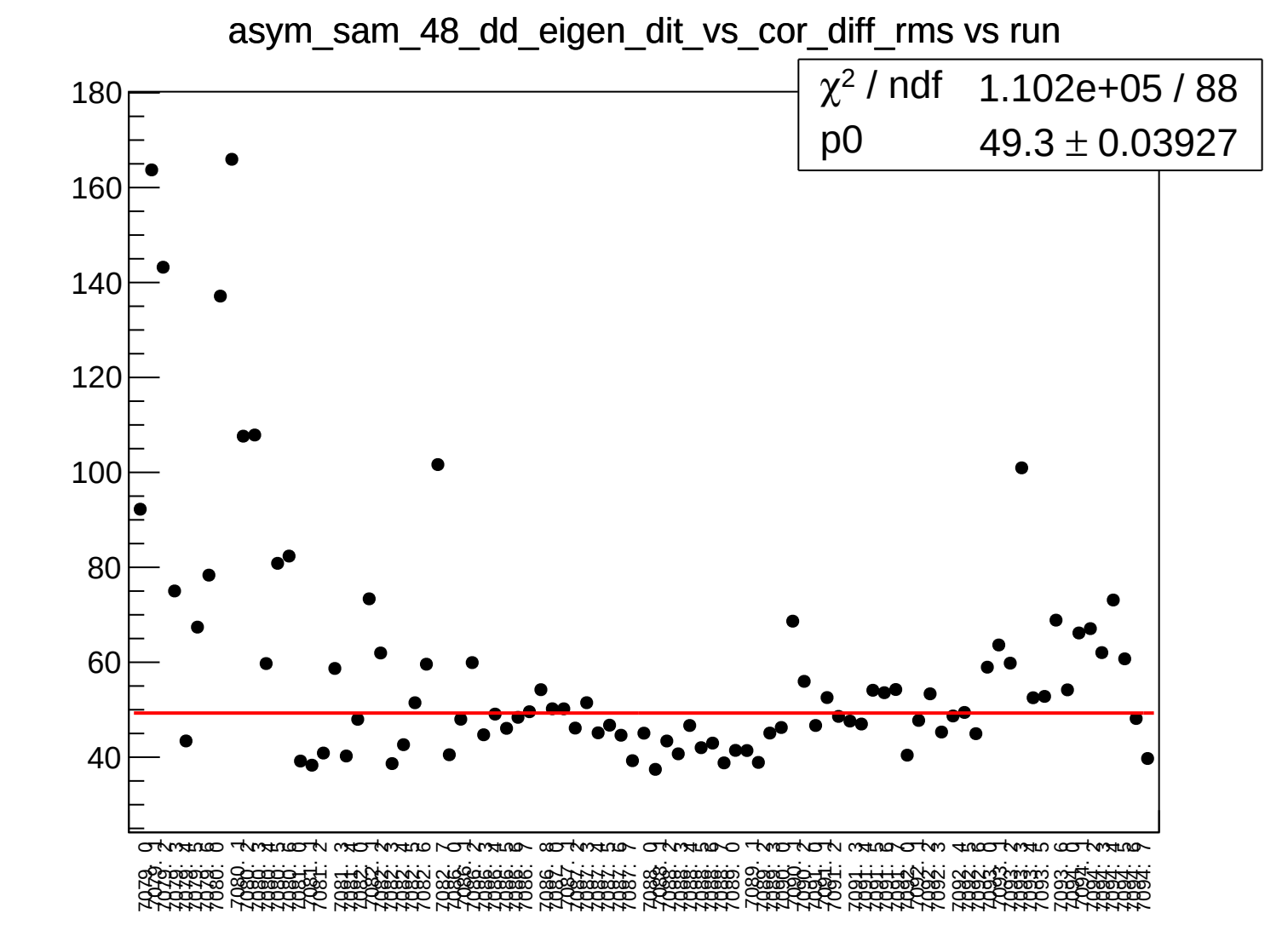

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.102e+05 / 88
p0 49.3 ± 0.03927
180
160
140
120
100
80
60
40

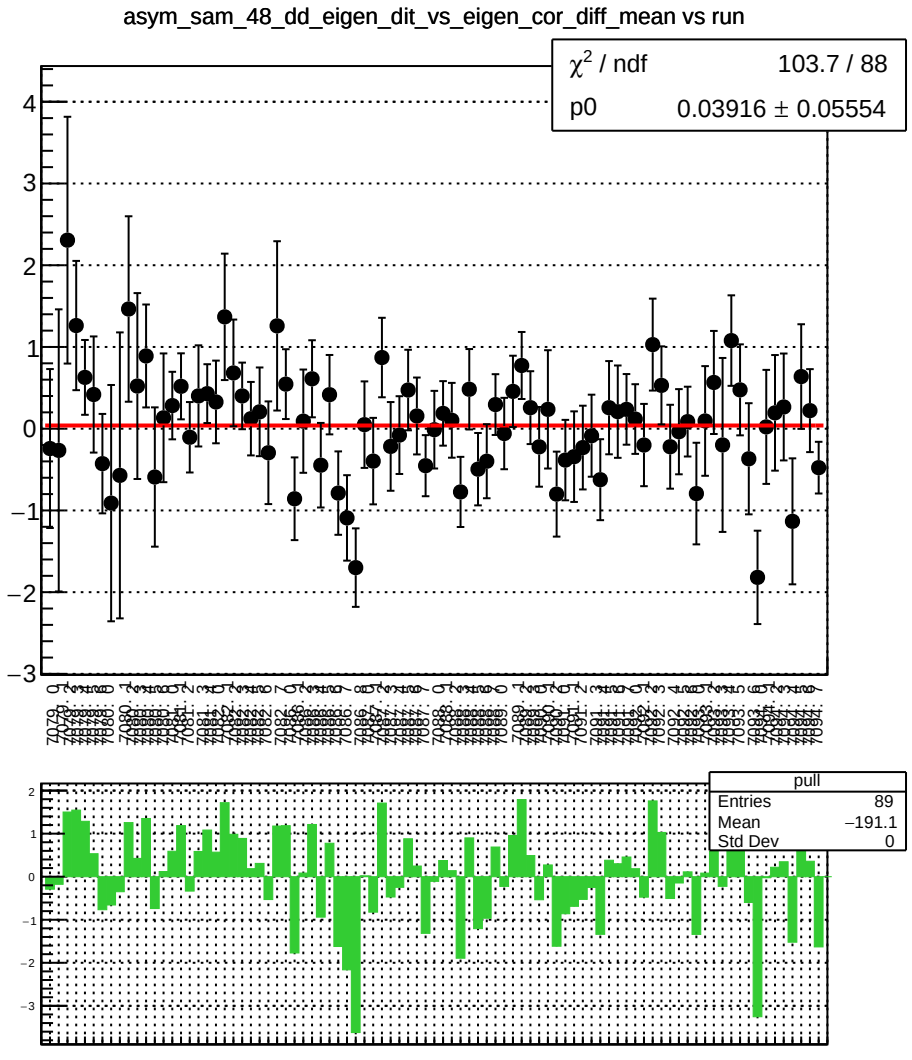

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.37 / 88
p0 9.148e−07 ± 1.275e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −16.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.1037
Std Dev 0.9854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

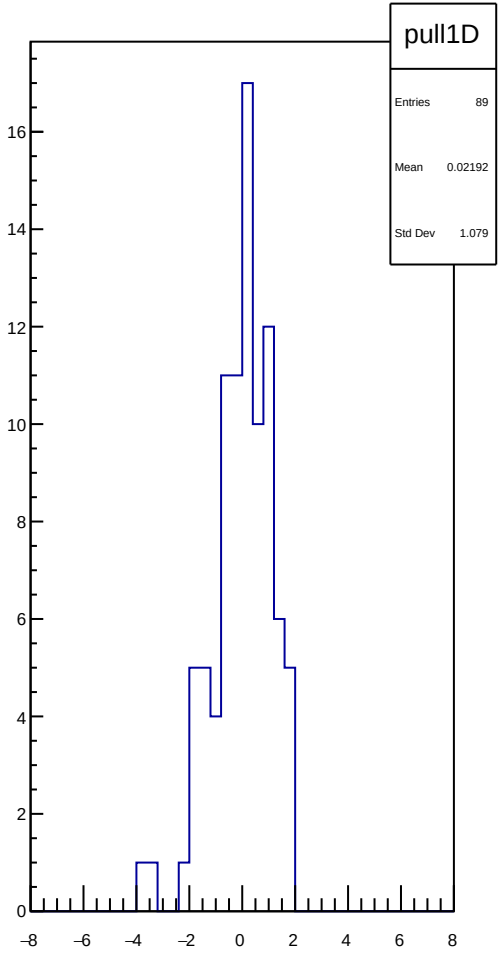

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.716e+05 / 88
p0 0.001109 ± 9.014e−07
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

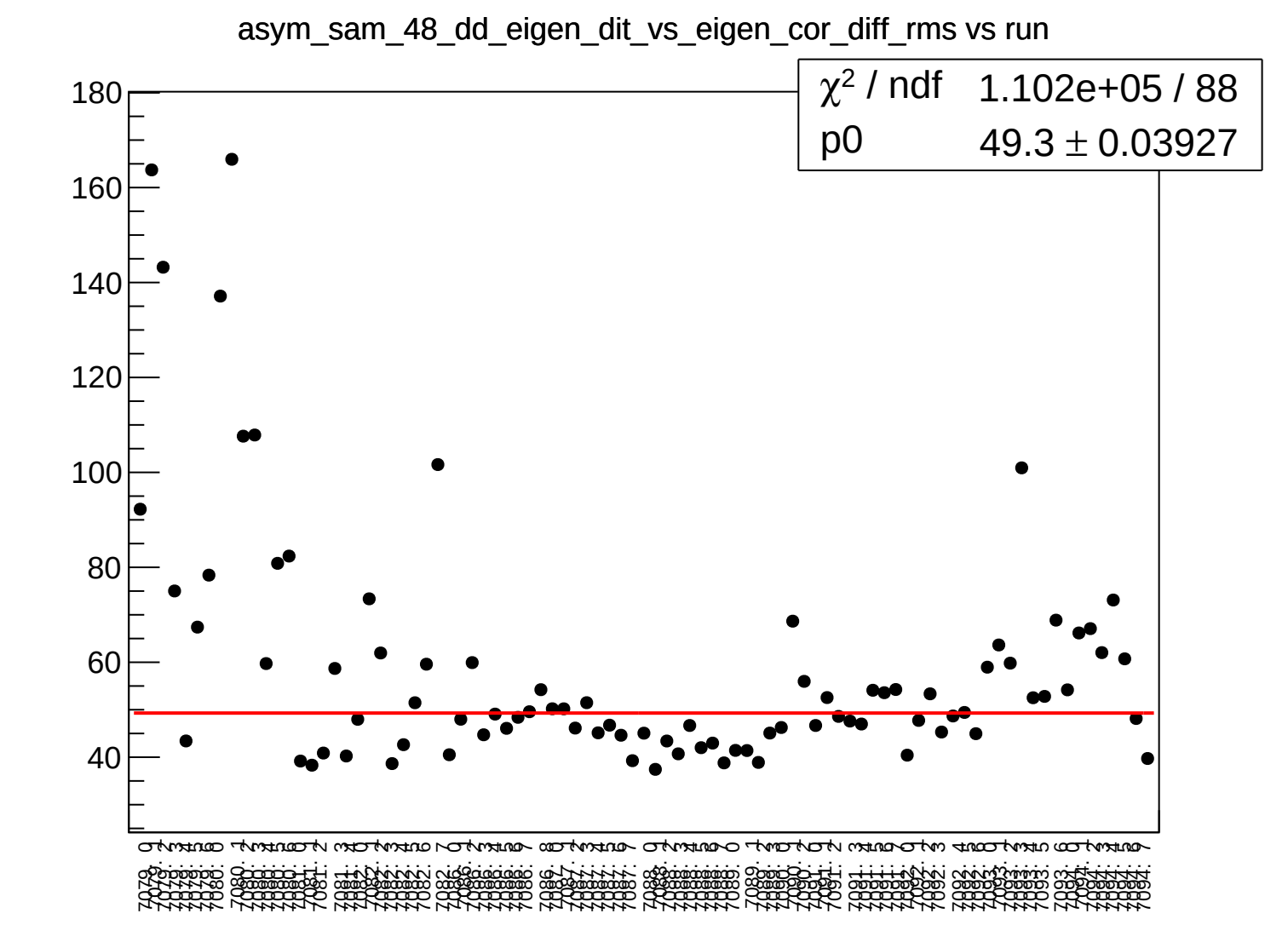

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 88
p0 0.03916 ± 0.05554
pull
Entries 89
Mean −191.1
Std Dev 0

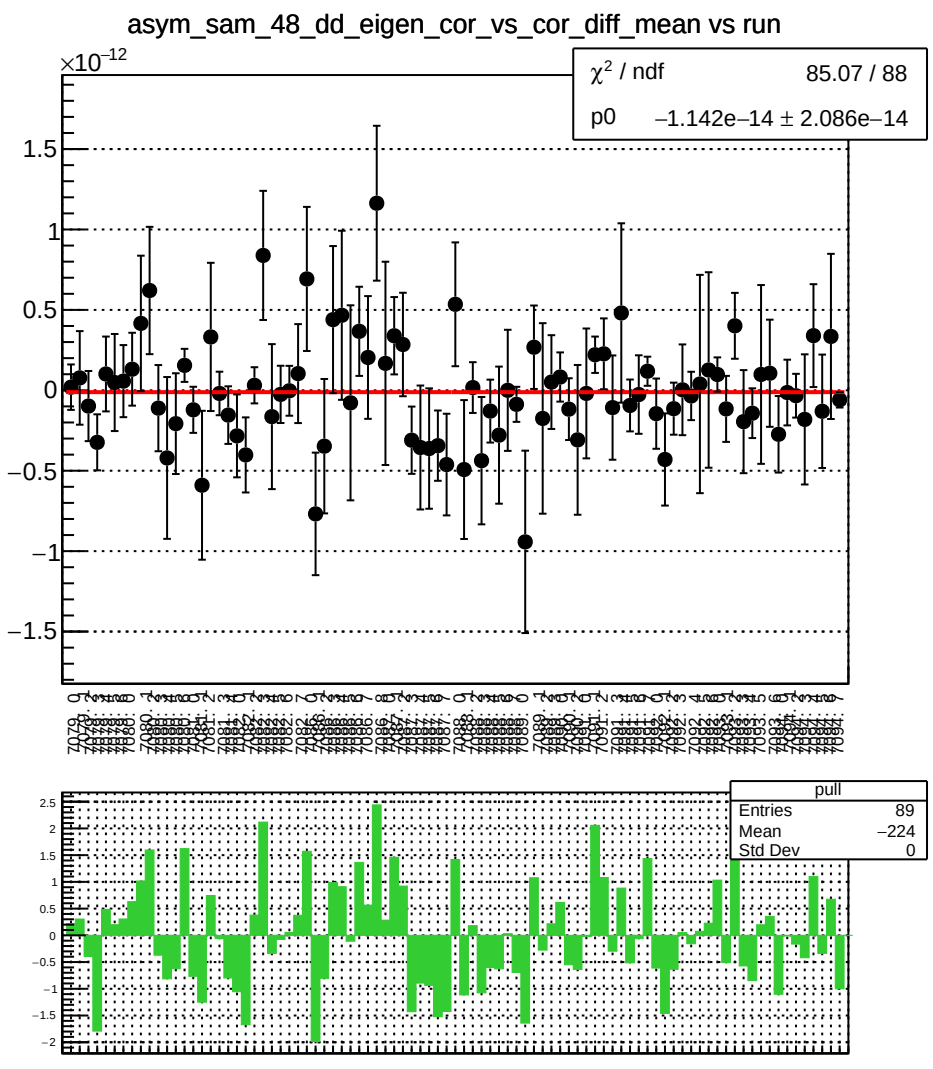

pull1D
Entries 89
Mean 0.02192
Std Dev 1.079

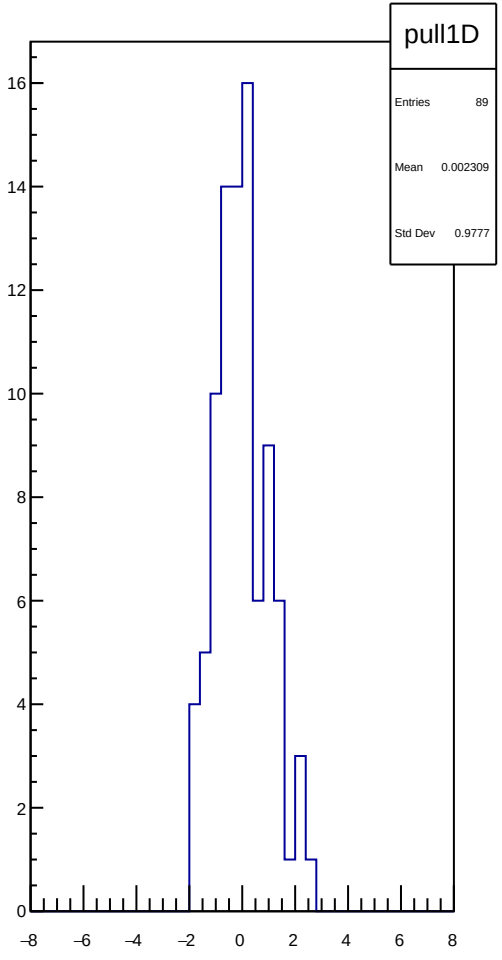

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.102e+05 / 88
p0 49.3 ± 0.03927
180
160
140
120
100
80
60
40

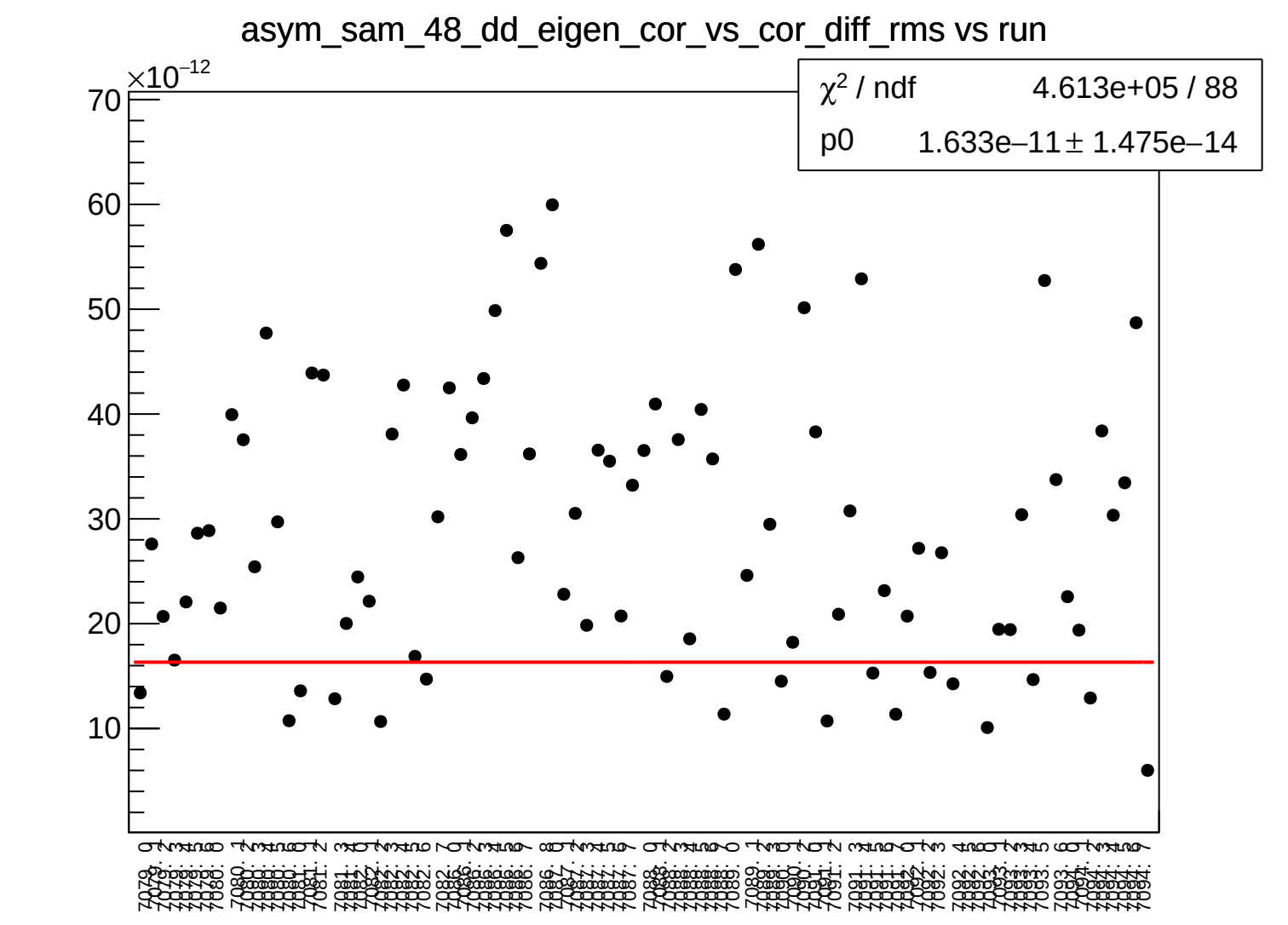

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 88
p0 0.03916 ± 0.05554
pull
Entries 89
Mean −191.1
Std Dev 0

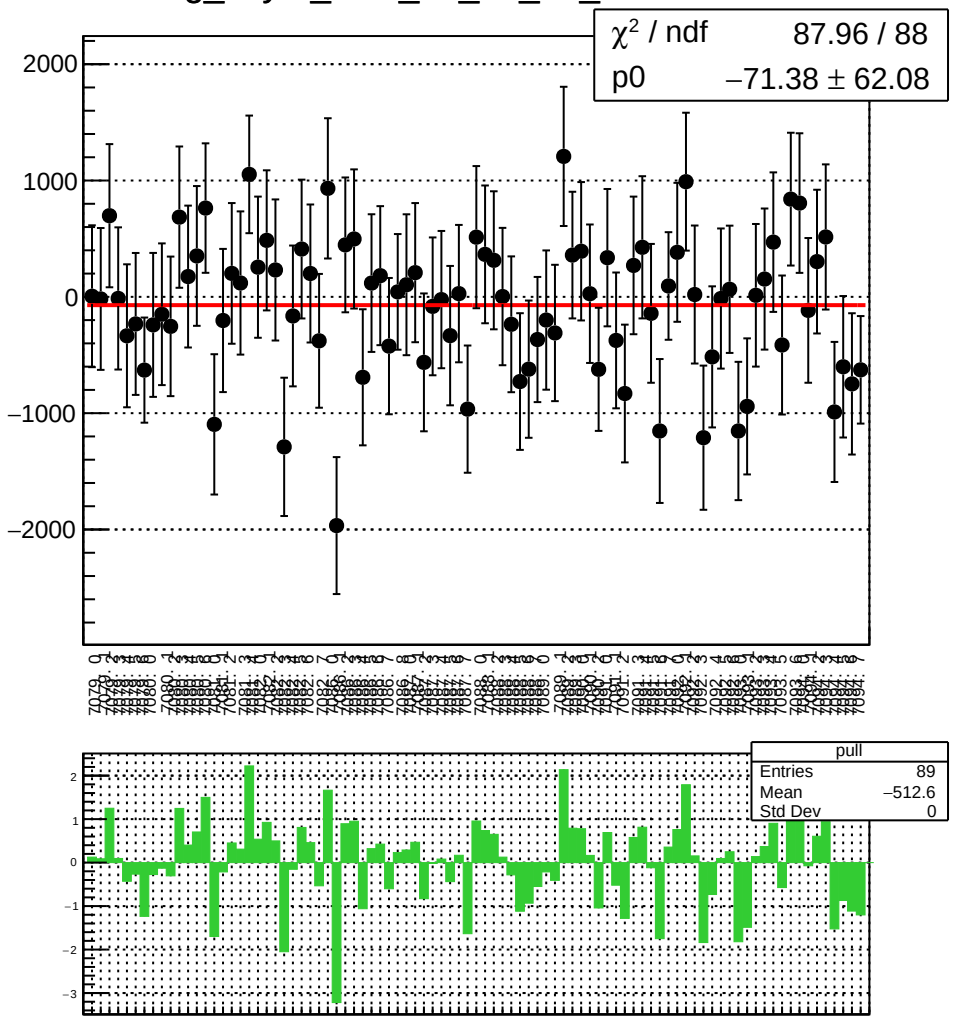

pull1D
Entries 89
Mean 0.02192
Std Dev 1.079

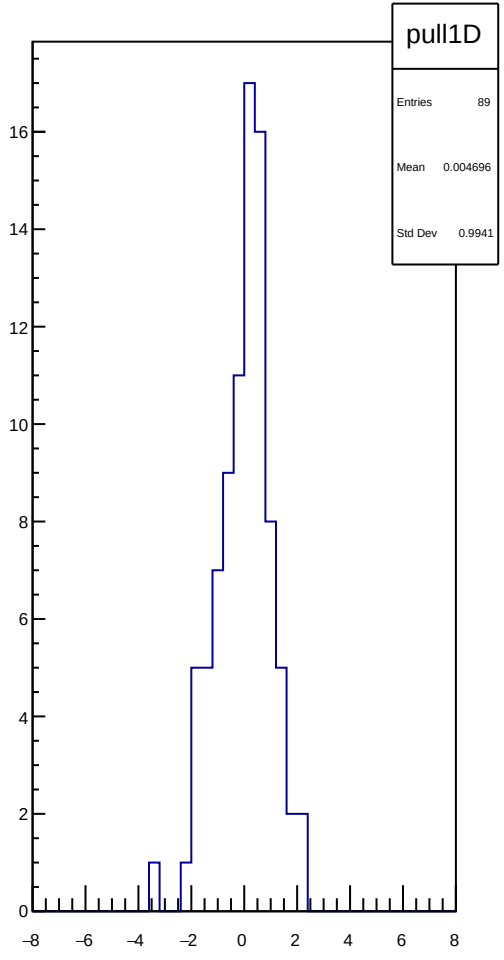

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.102e+05 / 88
p0 49.3 ± 0.03927
180
160
140
120
100
80
60
40

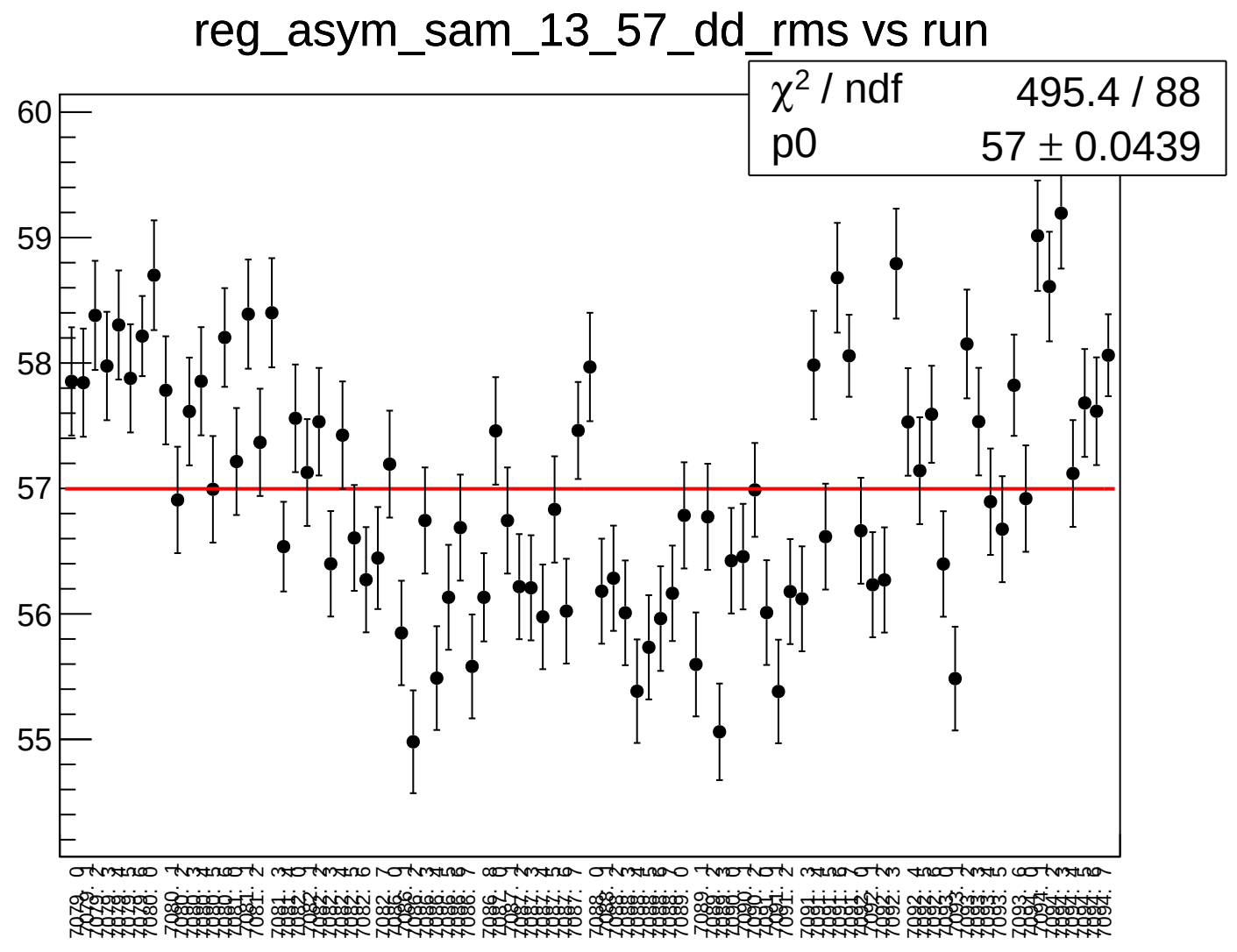

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.07 / 88
p0 −1.142e−14 ± 2.086e−14
pull
Entries 89
Mean −224
Std Dev 0

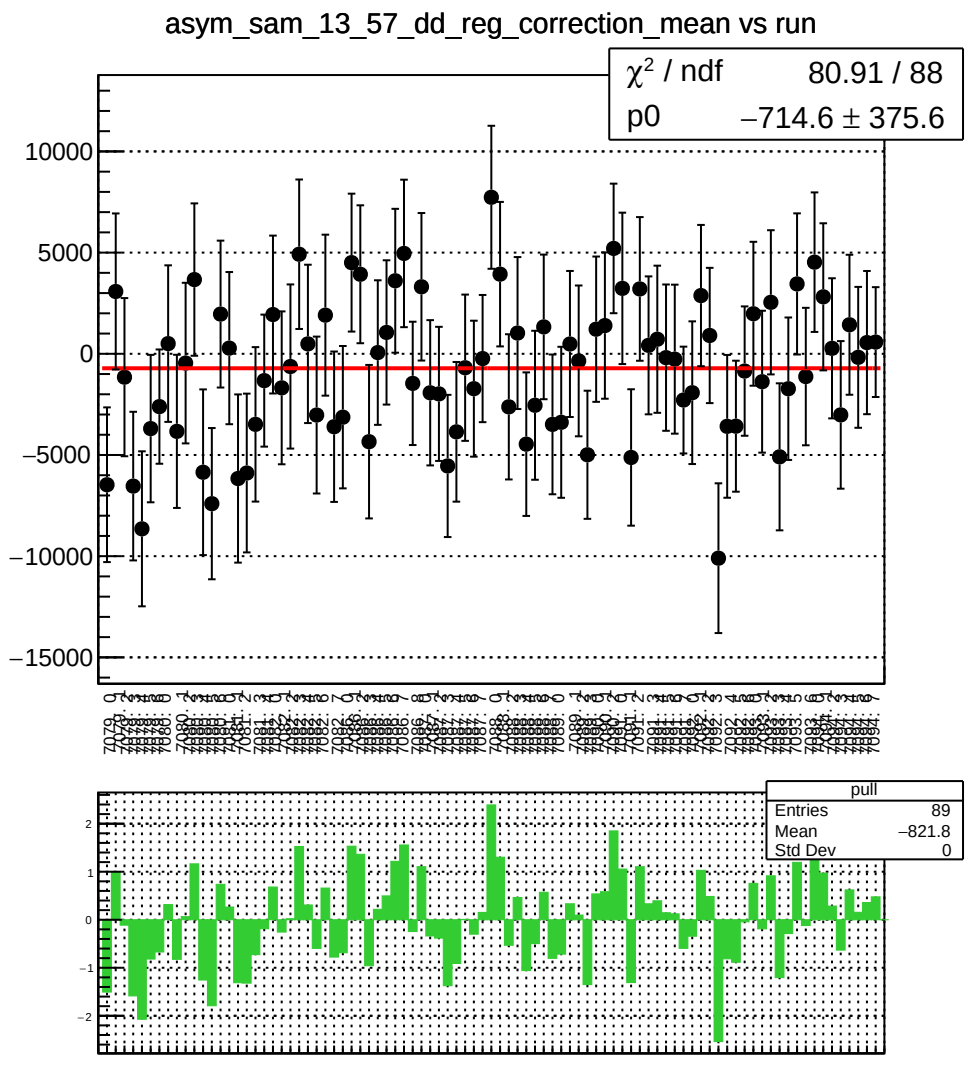

pull1D
Entries 89
Mean 0.002309
Std Dev 0.9777

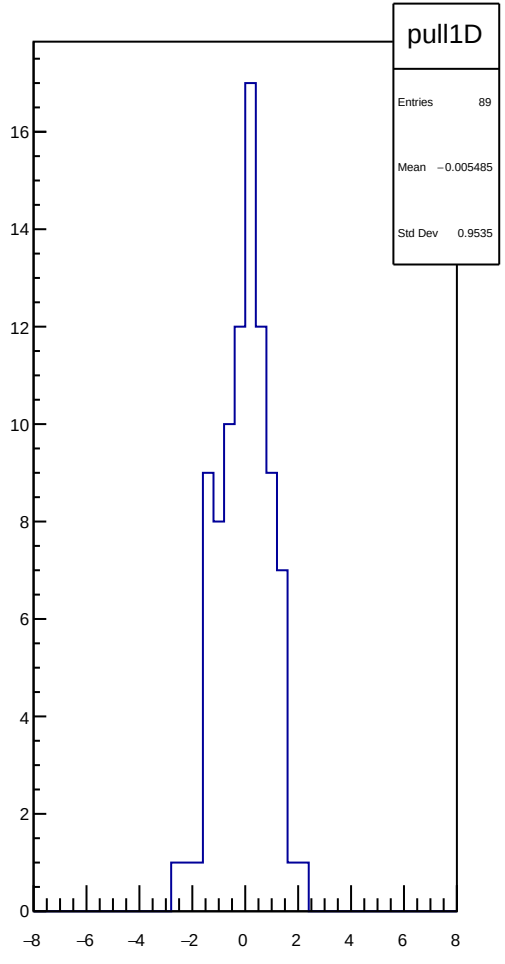

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 4.613e+05 / 88
p0 1.633e−11 ± 1.475e−14


reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.96 / 88
p0 −71.38 ± 62.08
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −512.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean 0.004696
Std Dev 0.9941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 495.4 / 88
p0 57 ± 0.0439
60
59
58
57
56
55


asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 80.91 / 88
p0 −714.6 ± 375.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −821.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.005485
Std Dev 0.9535
16
14
12
10
8
6
4
2
0
−8
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−4
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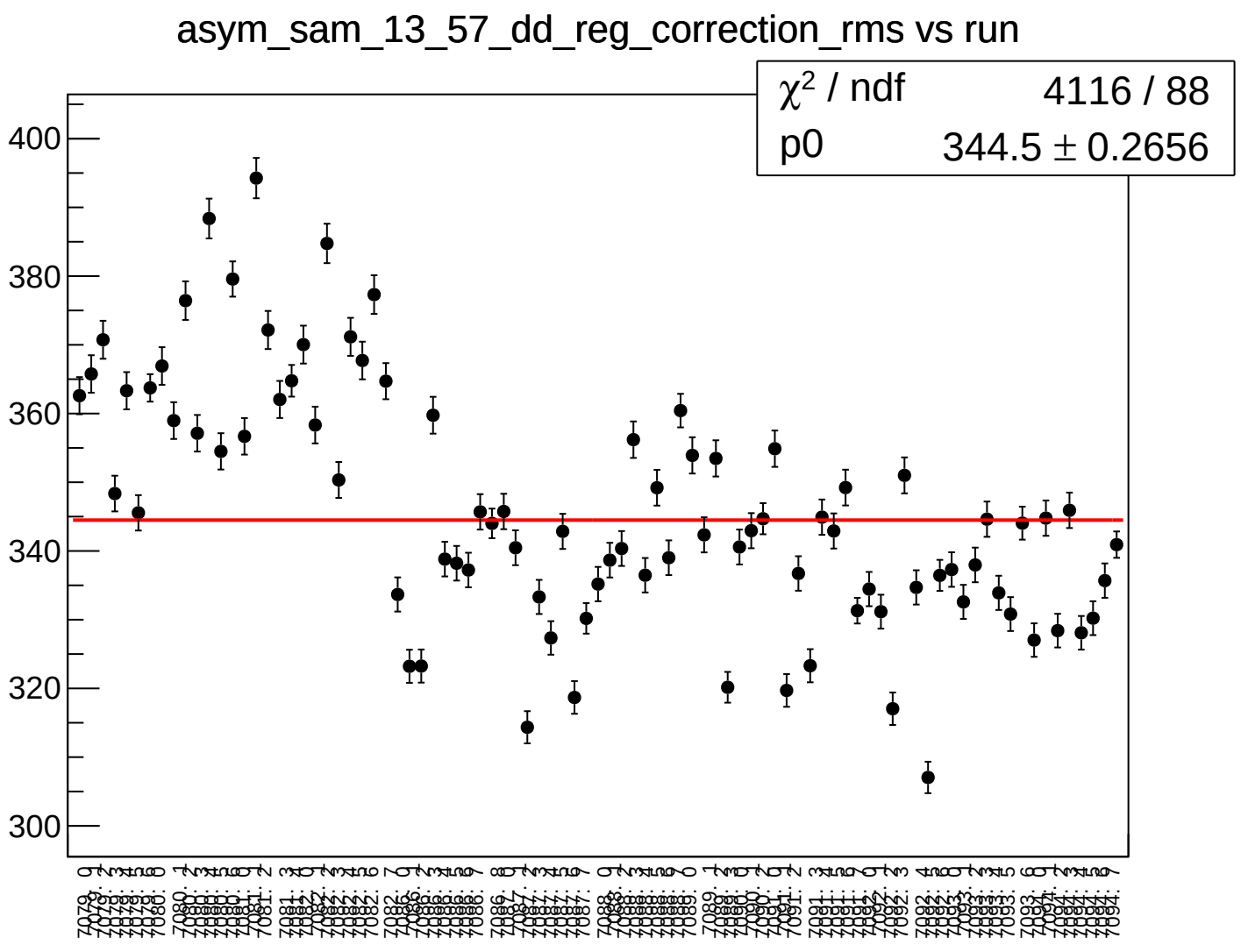
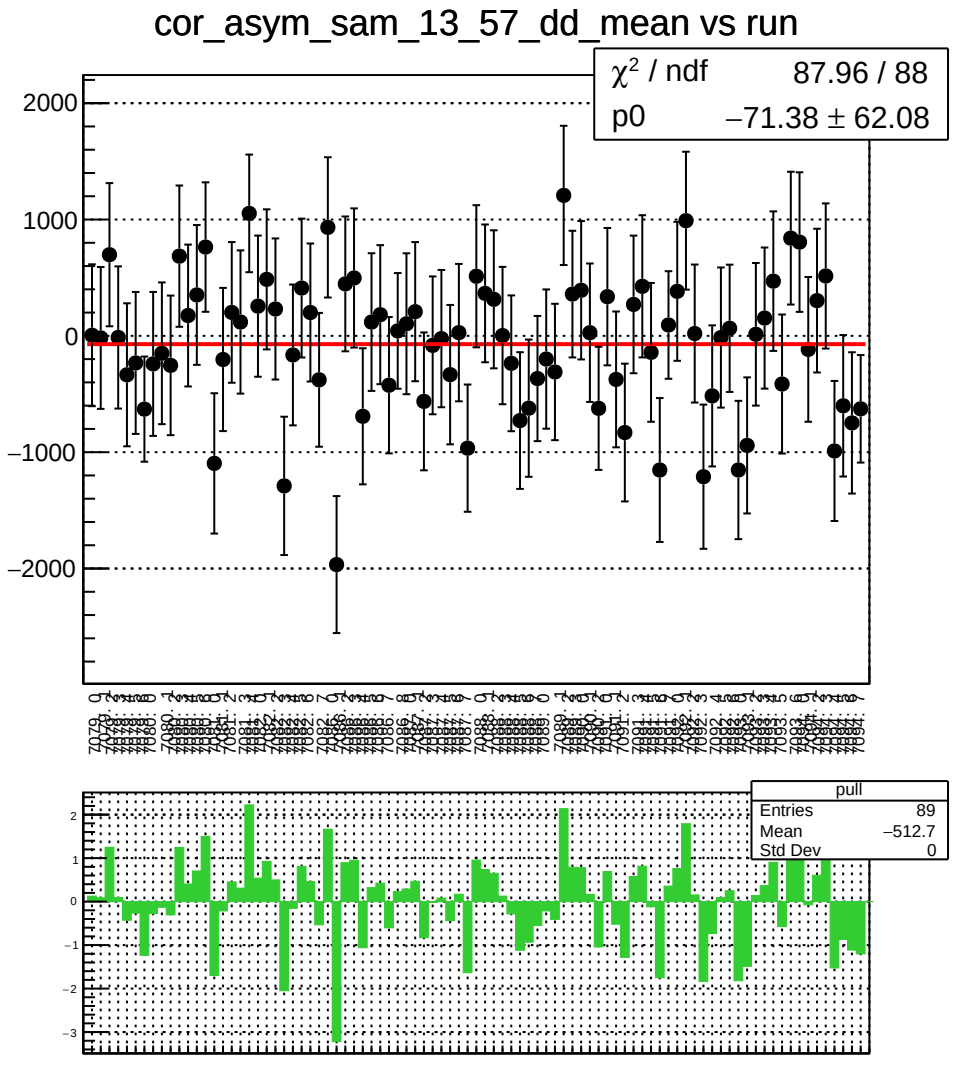
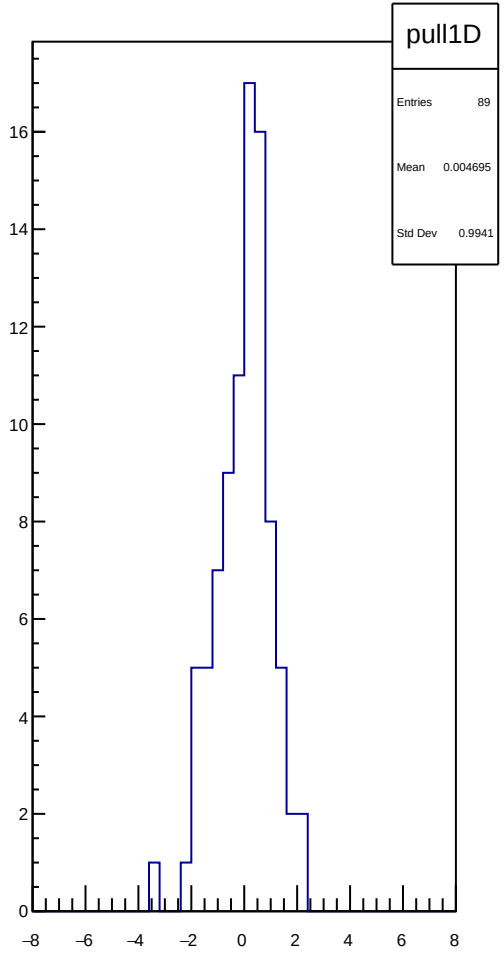
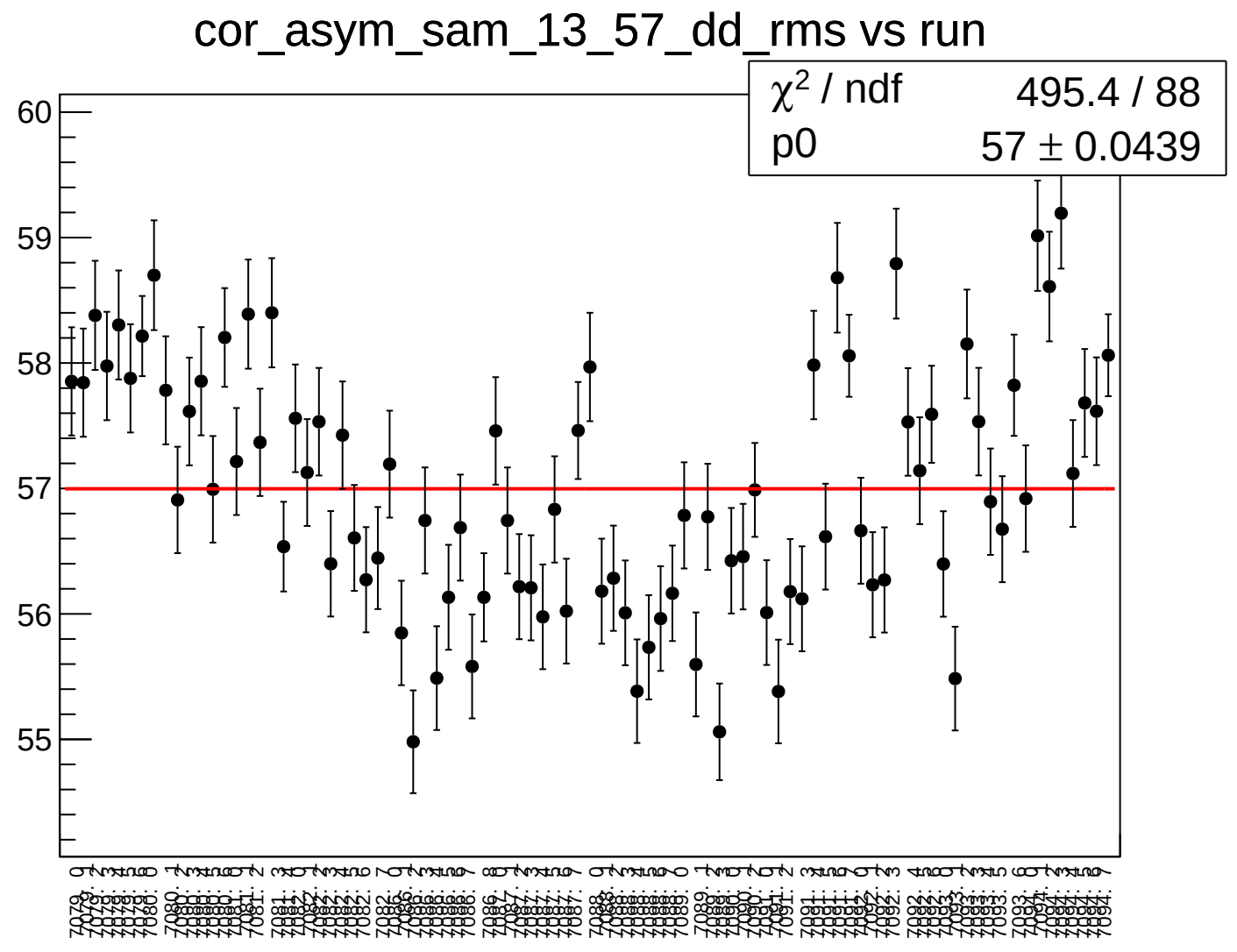
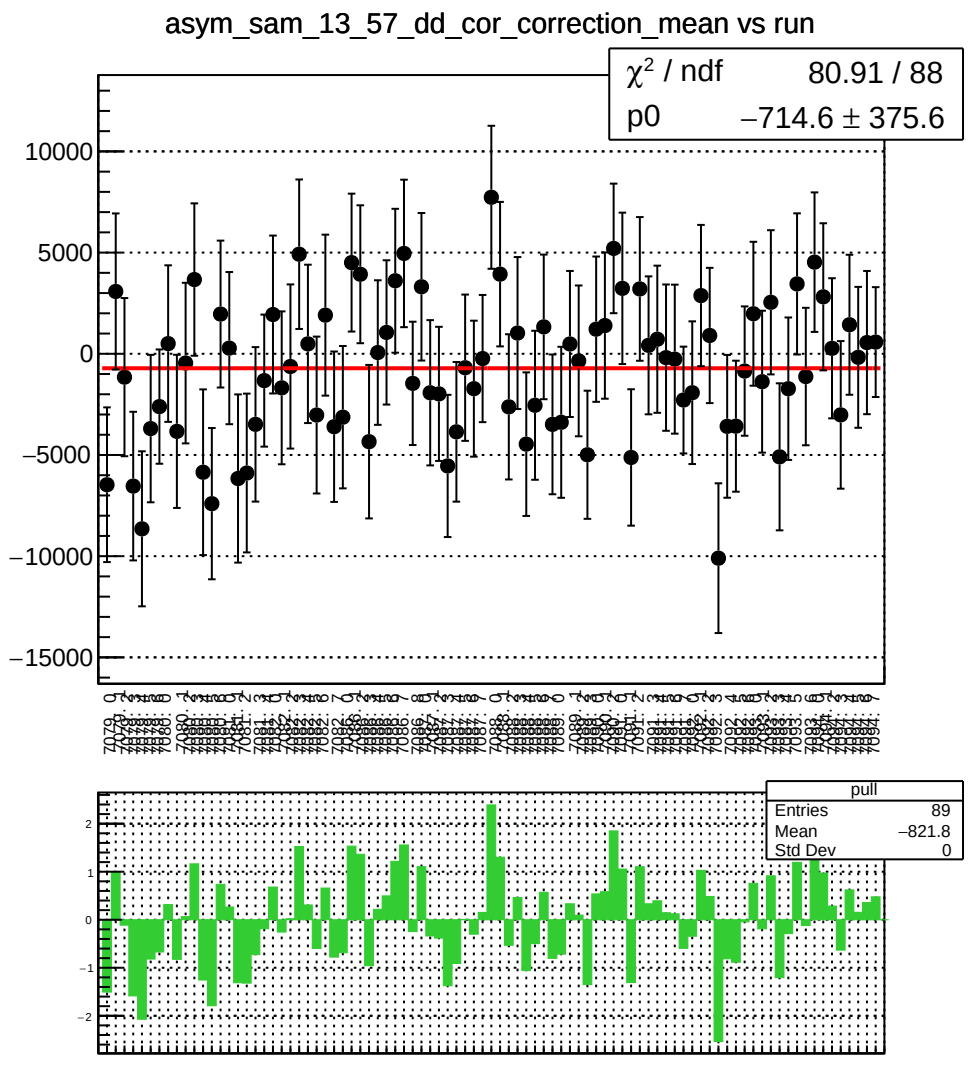
0
2
4
6
8

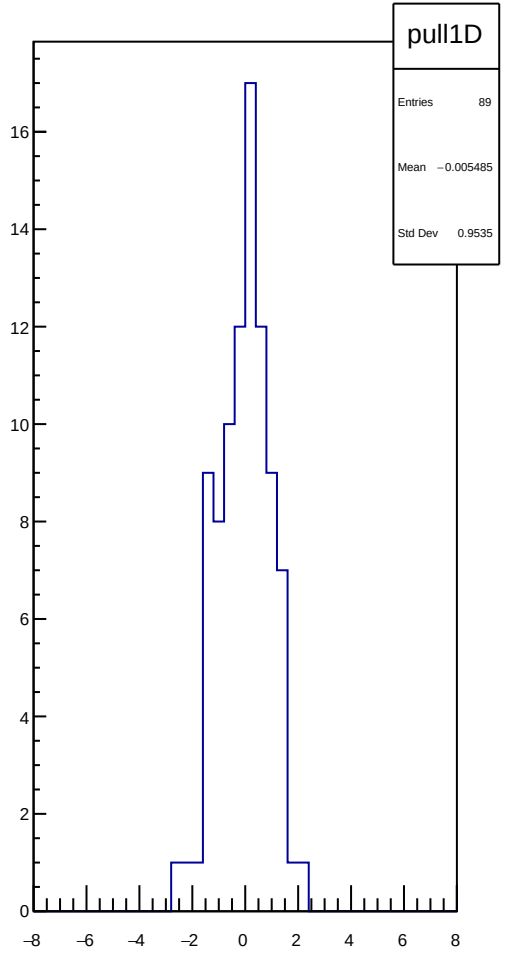

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 4116 / 88
p0 344.5 ± 0.2656
400
380
360
340
320
300


cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.96 / 88
p0 −71.38 ± 62.08
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −512.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean 0.004695
Std Dev 0.9941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 495.4 / 88
p0 57 ± 0.0439
60
59
58
57
56
55


asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 80.91 / 88
p0 −714.6 ± 375.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −821.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.005485
Std Dev 0.9535
16
14
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10
8
6
4
2
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−4
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2
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6
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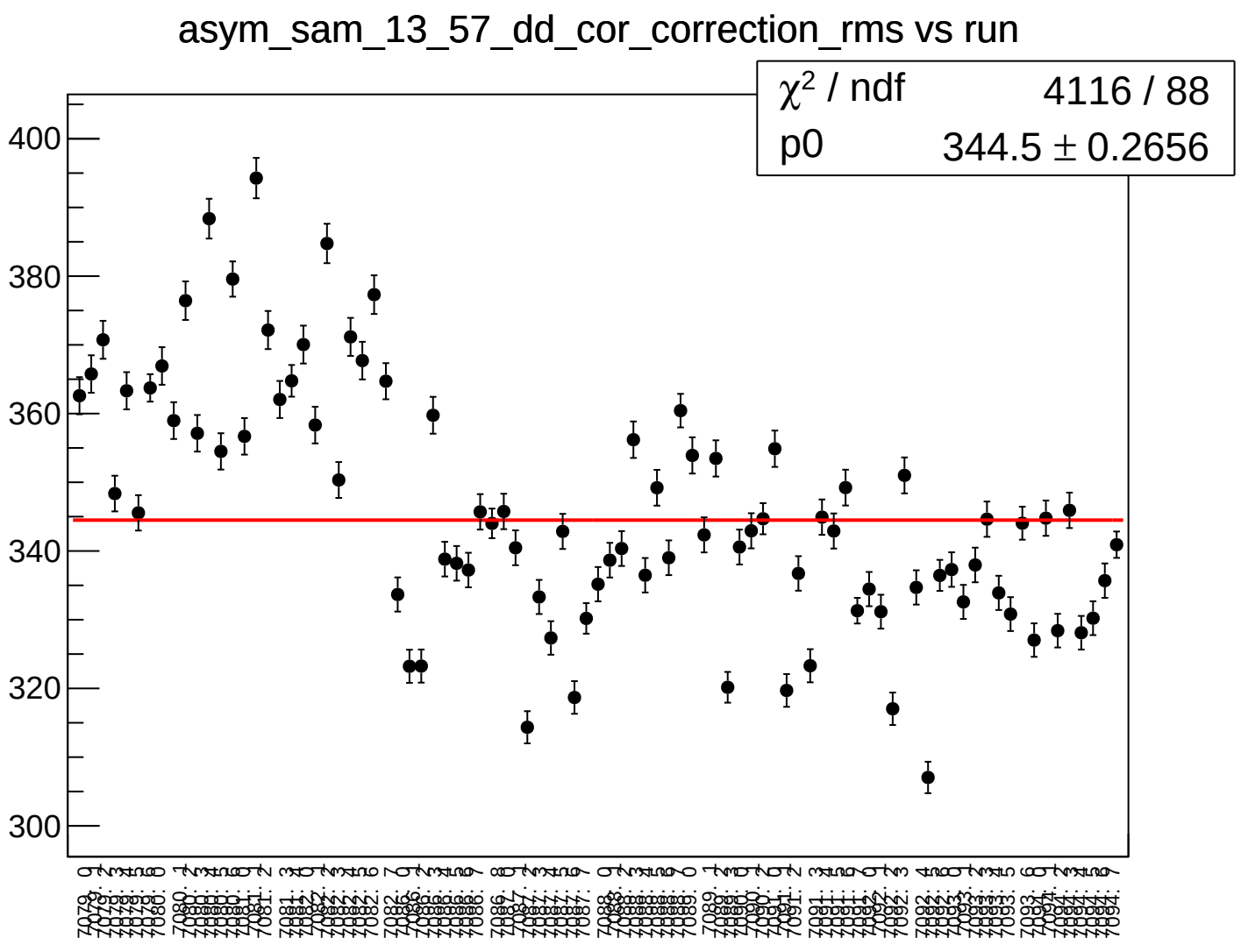
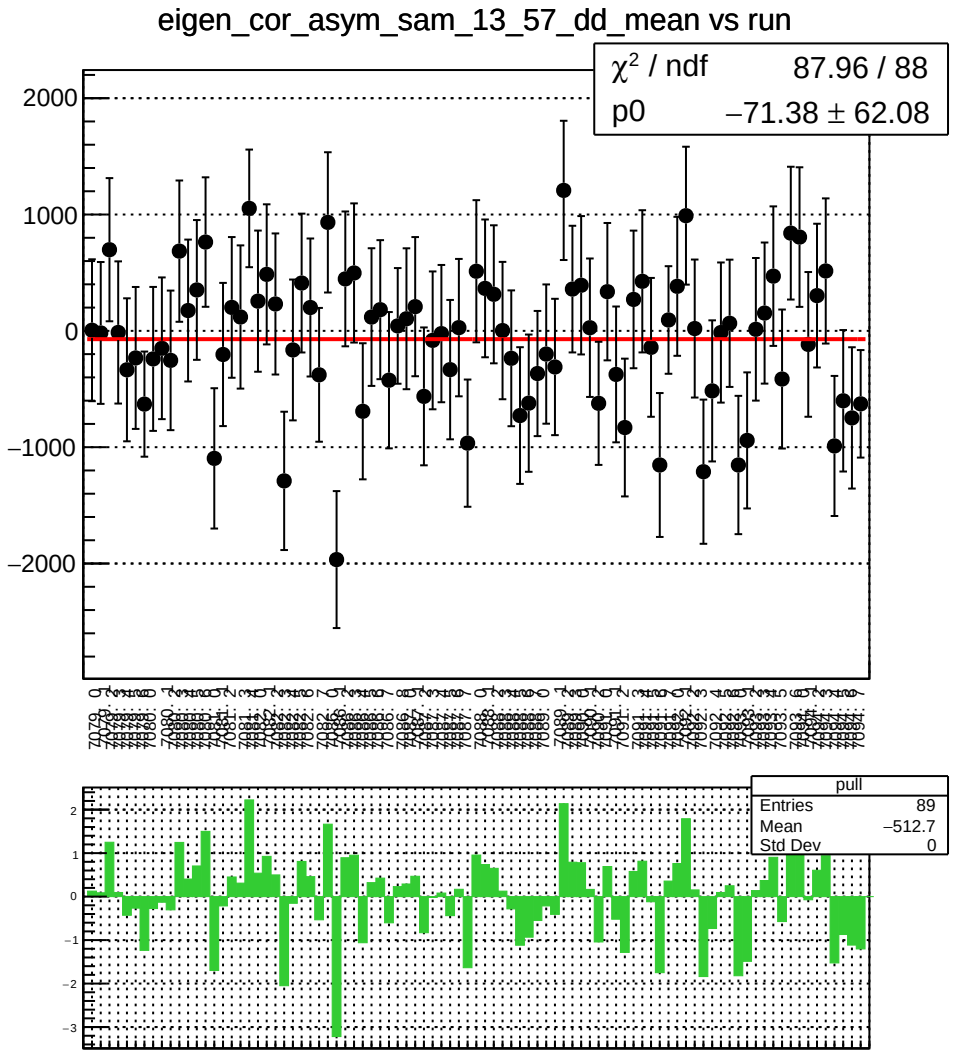
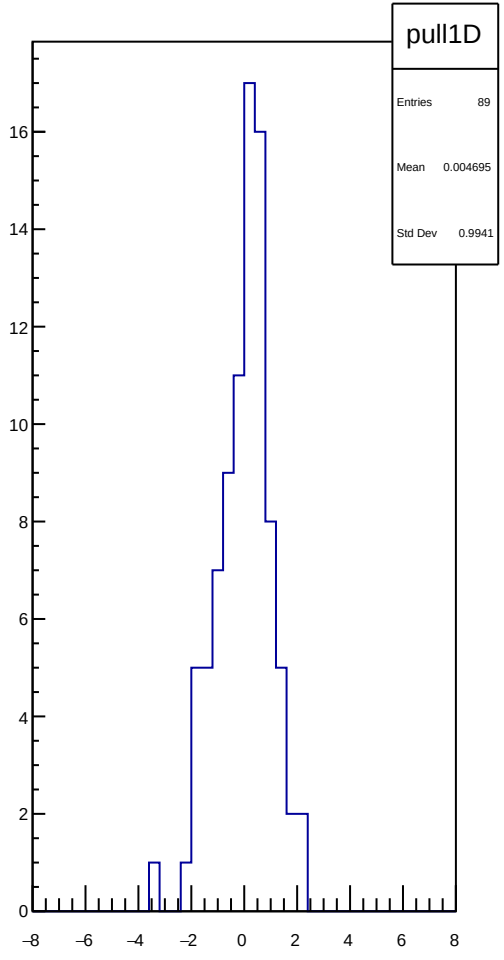

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 4116 / 88
p0 344.5 ± 0.2656
400
380
360
340
320
300


eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.96 / 88
p0 −71.38 ± 62.08
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −512.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean 0.004695
Std Dev 0.9941
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−4
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2
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6
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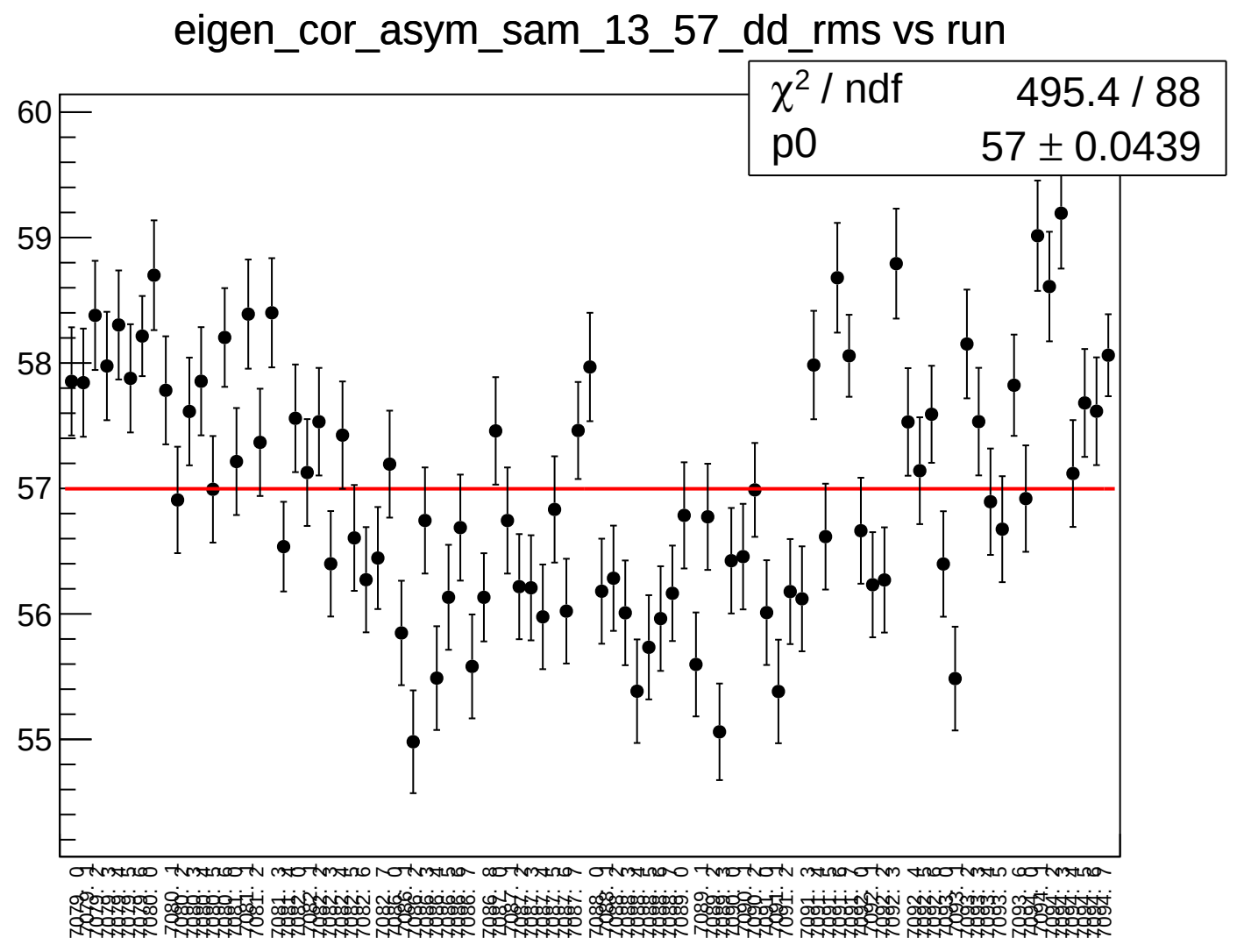
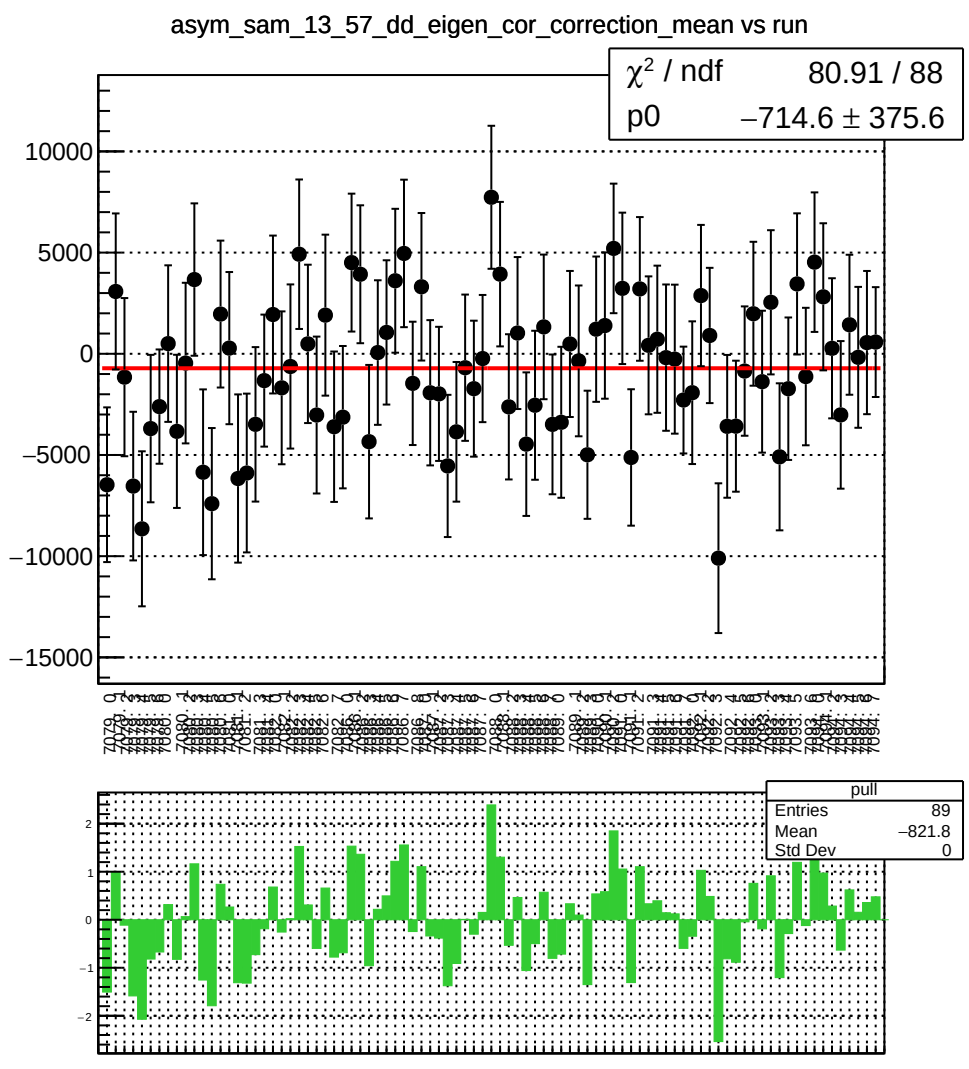
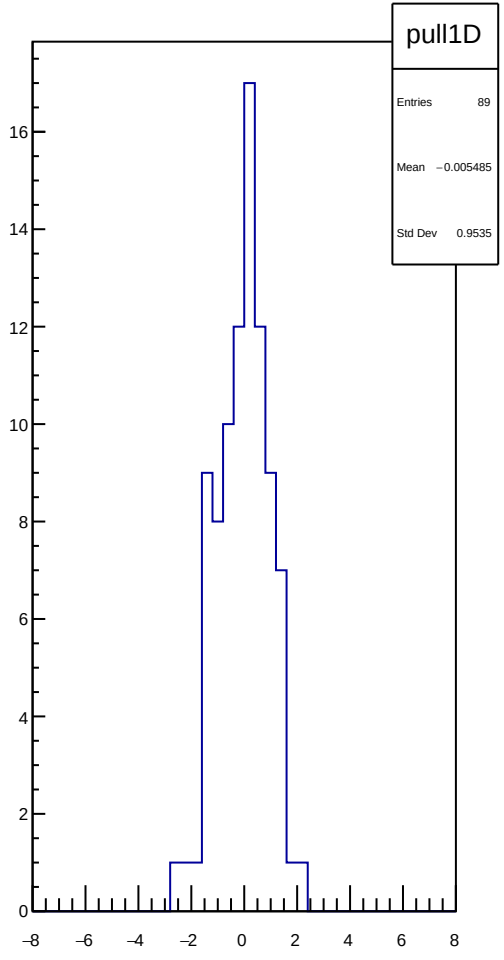

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 495.4 / 88
p0 57 ± 0.0439
60
59
58
57
56
55


asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.91 / 88
p0 −714.6 ± 375.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −821.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.005485
Std Dev 0.9535
16
14
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2
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−4
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2
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6
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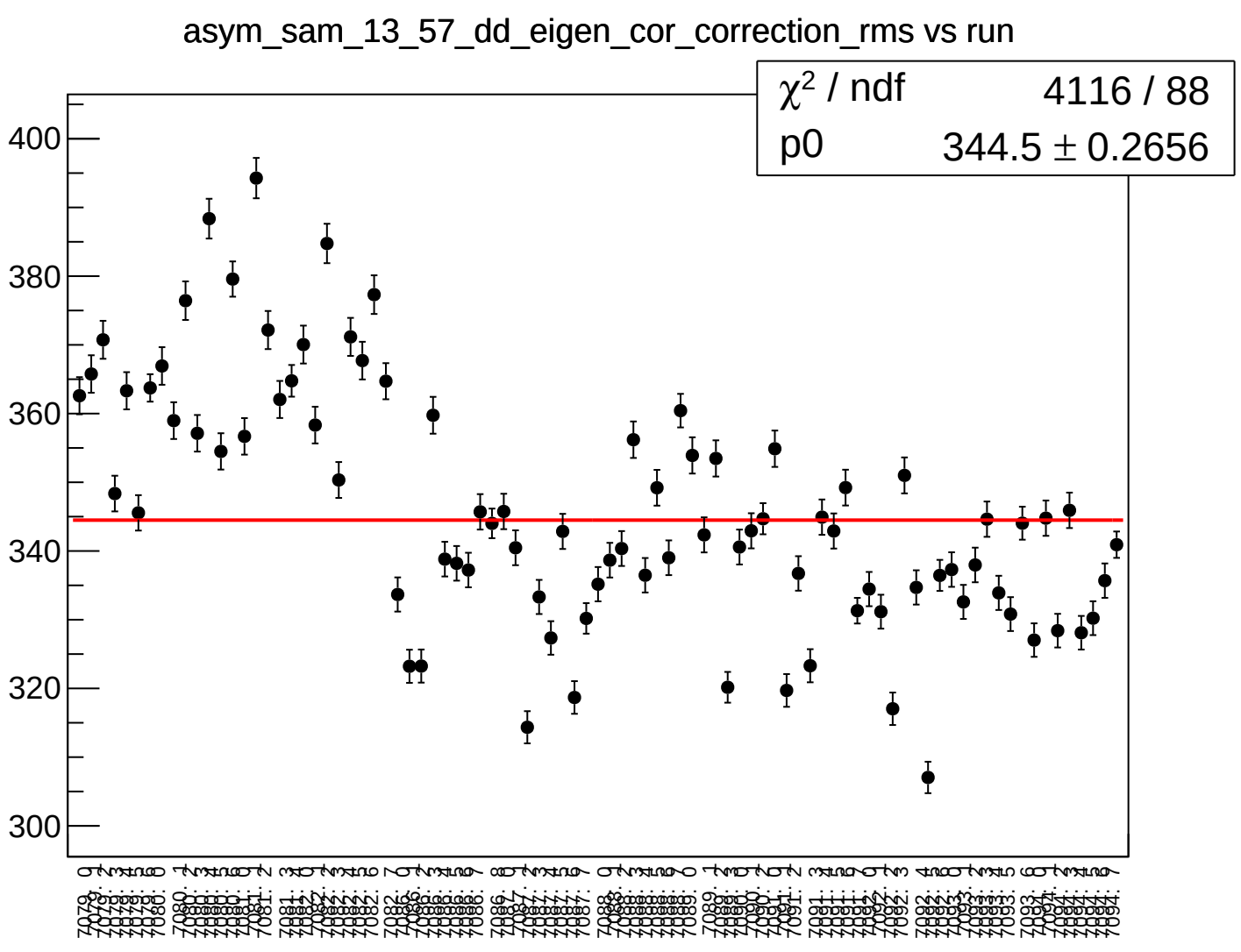
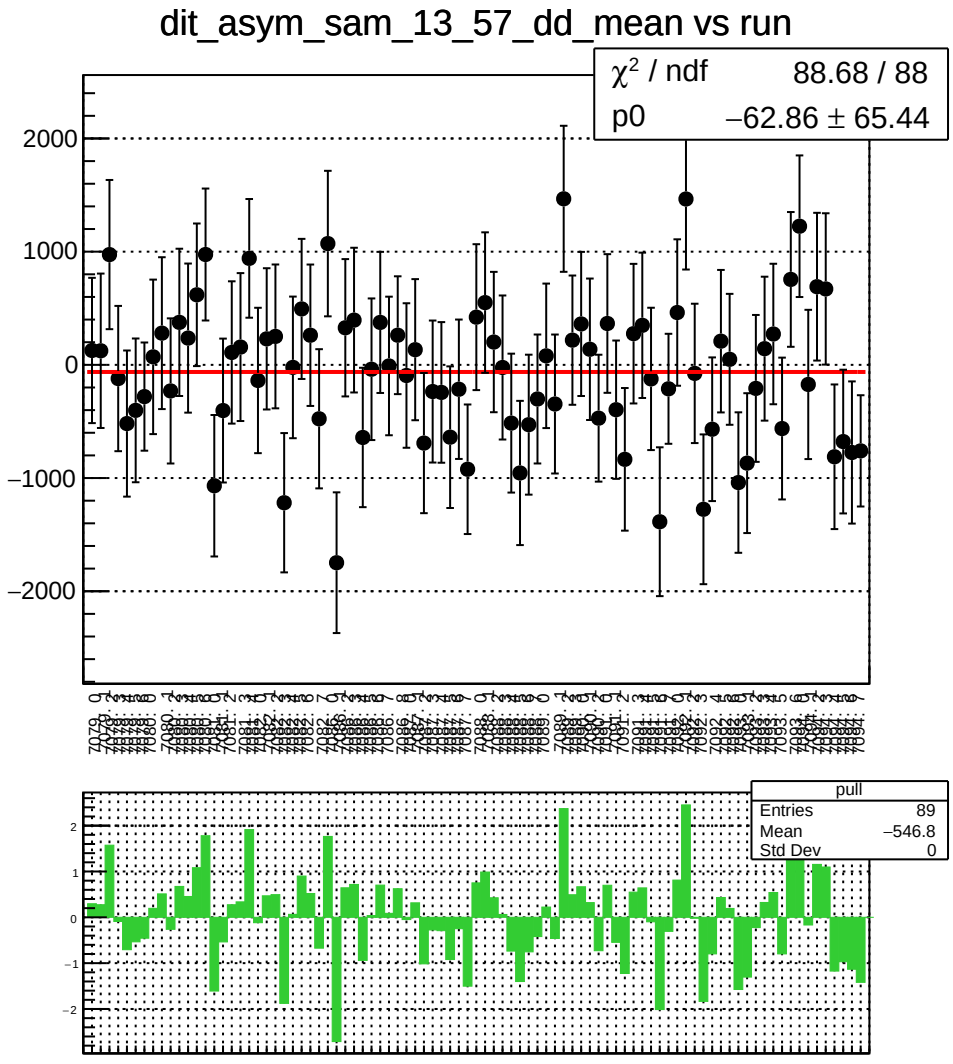
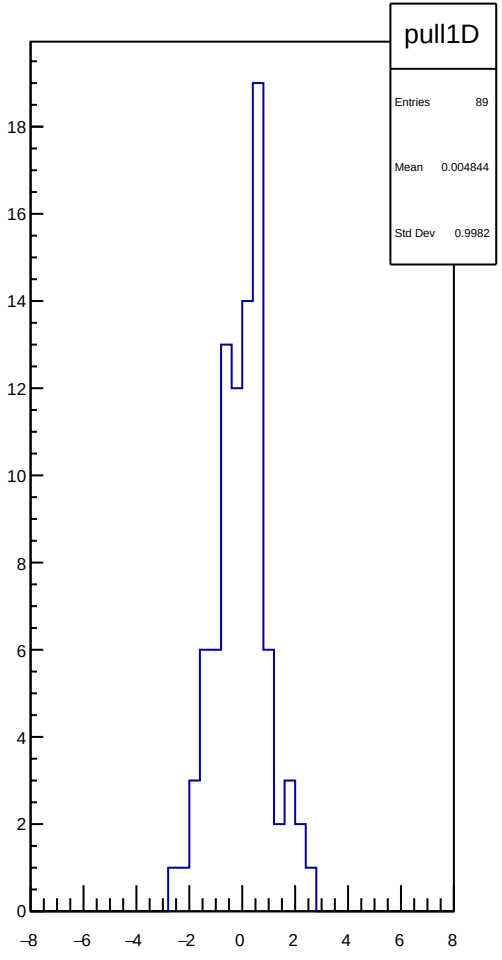

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 4116 / 88
p0 344.5 ± 0.2656
400
380
360
340
320
300


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 88.68 / 88
p0 −62.86 ± 65.44
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −546.8
Std Dev 0
2
1
0
−1


pull1D
Entries 89
Mean 0.004844
Std Dev 0.9982
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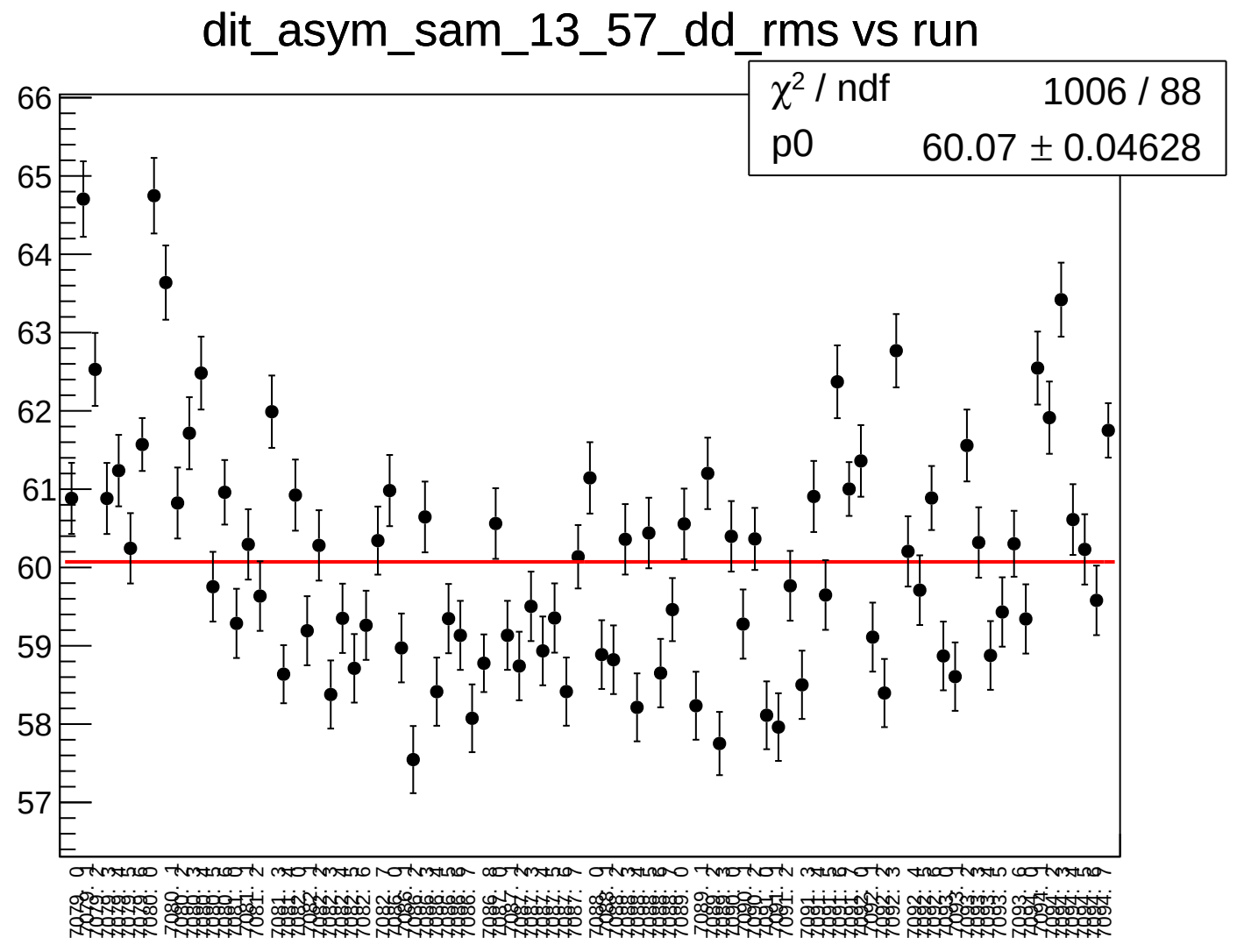
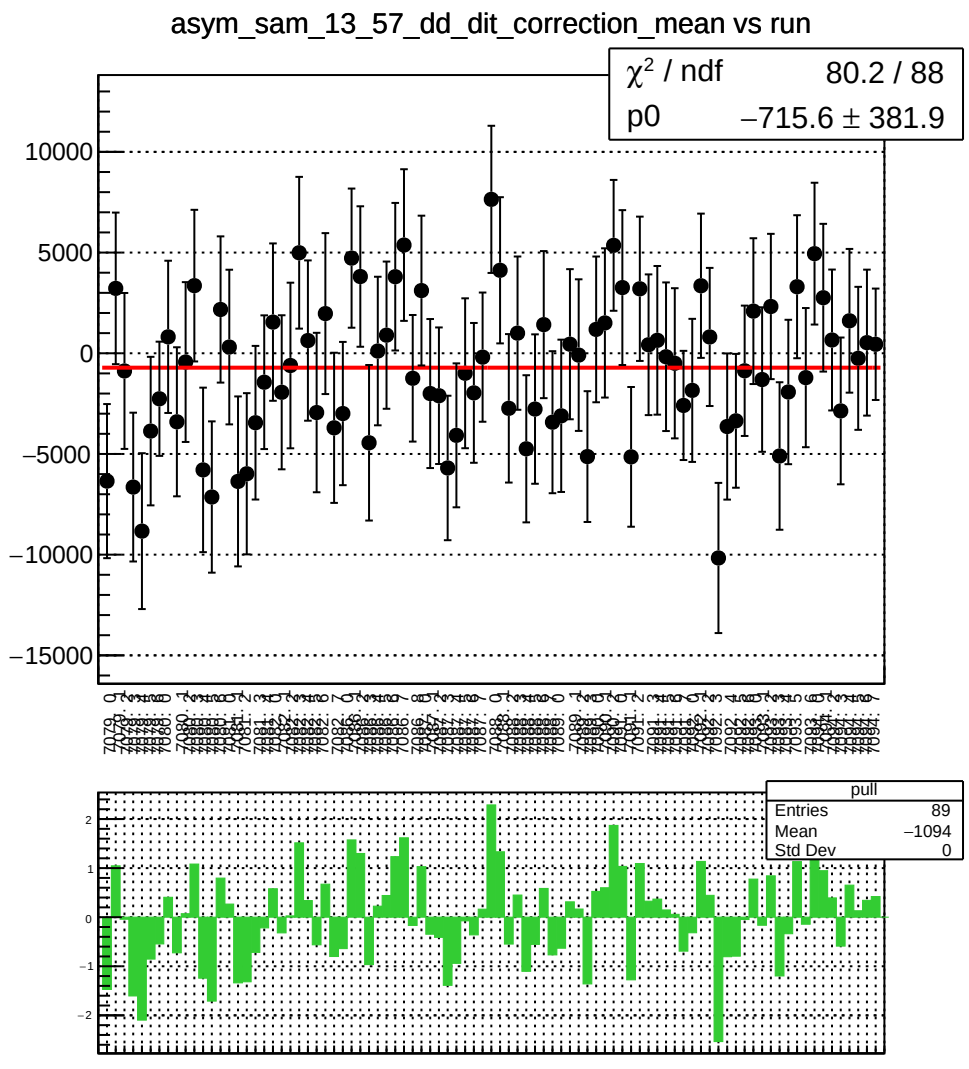
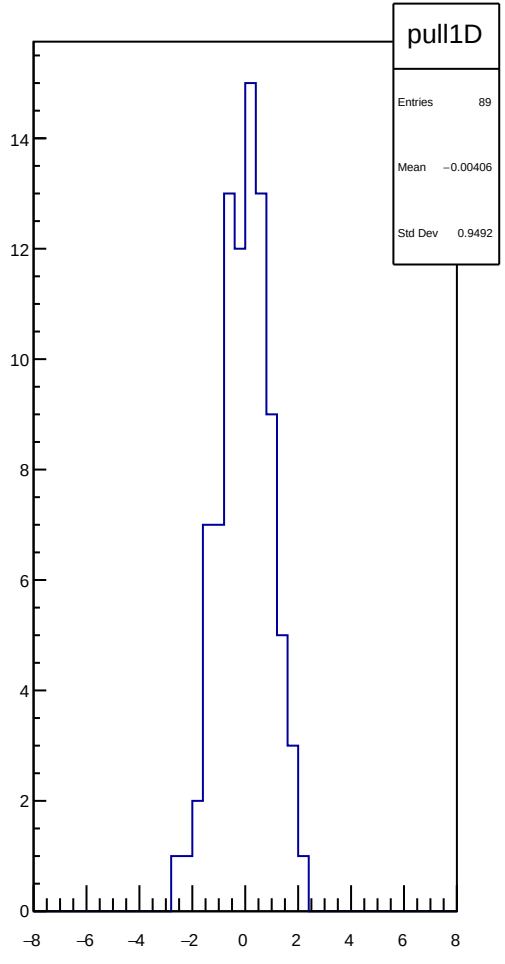
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1006 / 88
p0 60.07 ± 0.04628
66
65
64
63
62
61
60
59
58
57


asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 80.2 / 88
p0 −715.6 ± 381.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −1094
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.00406
Std Dev 0.9492
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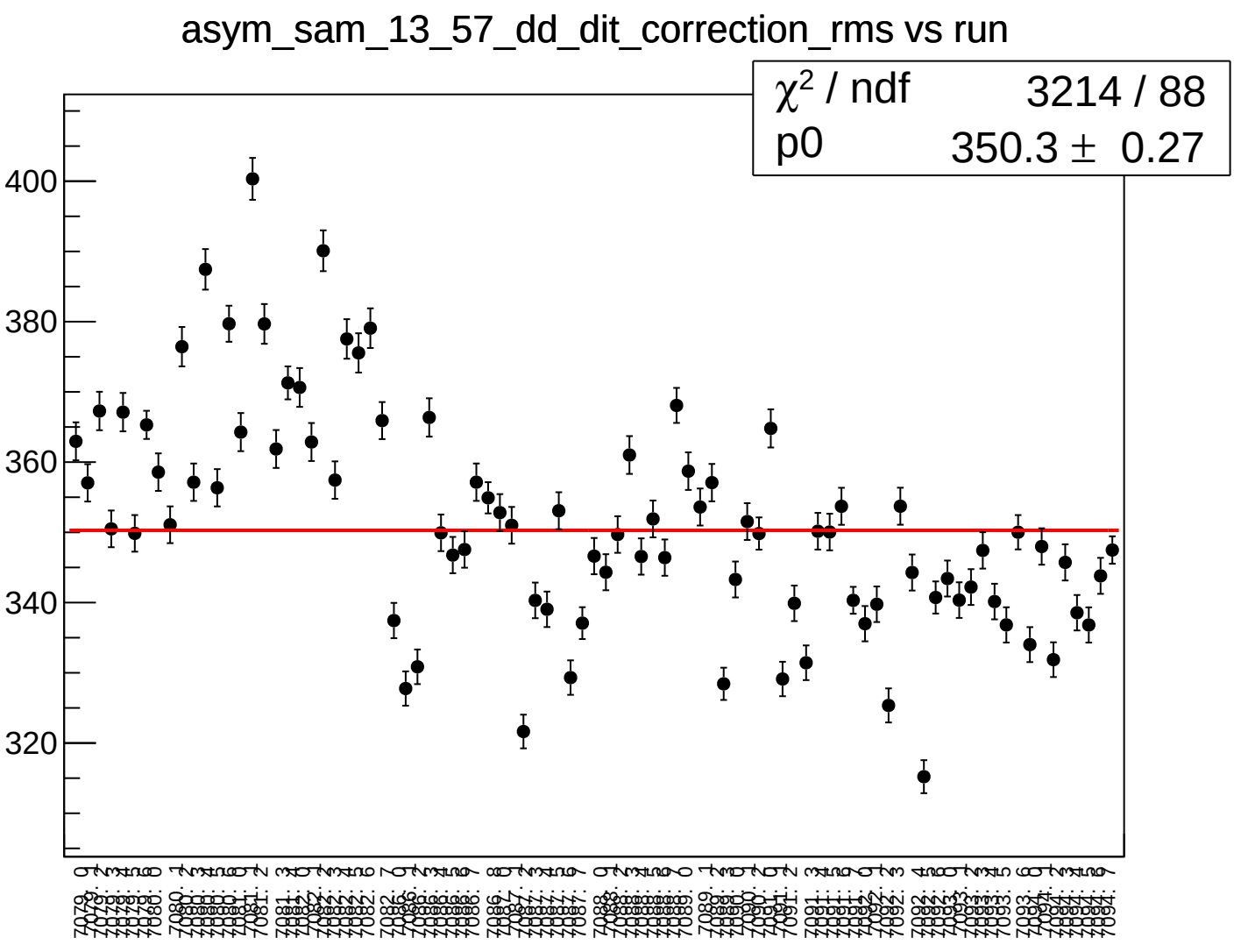
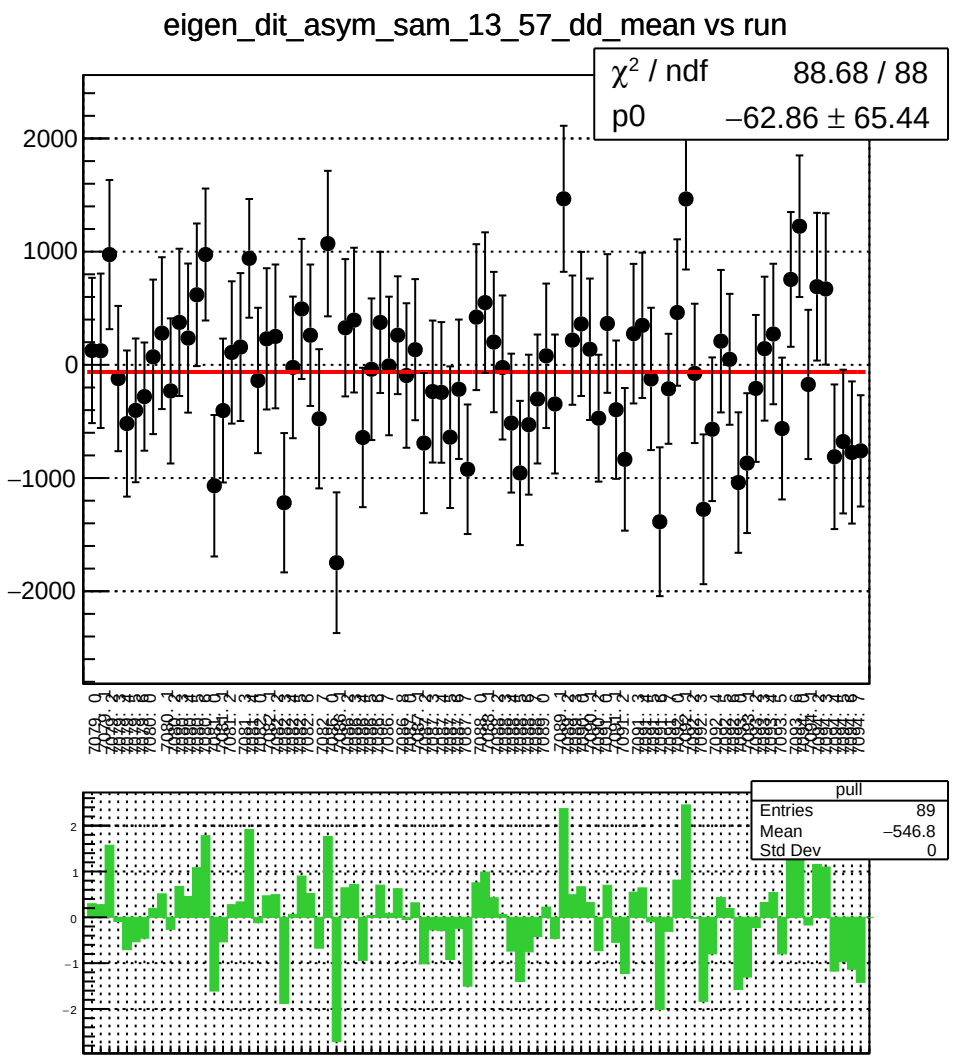
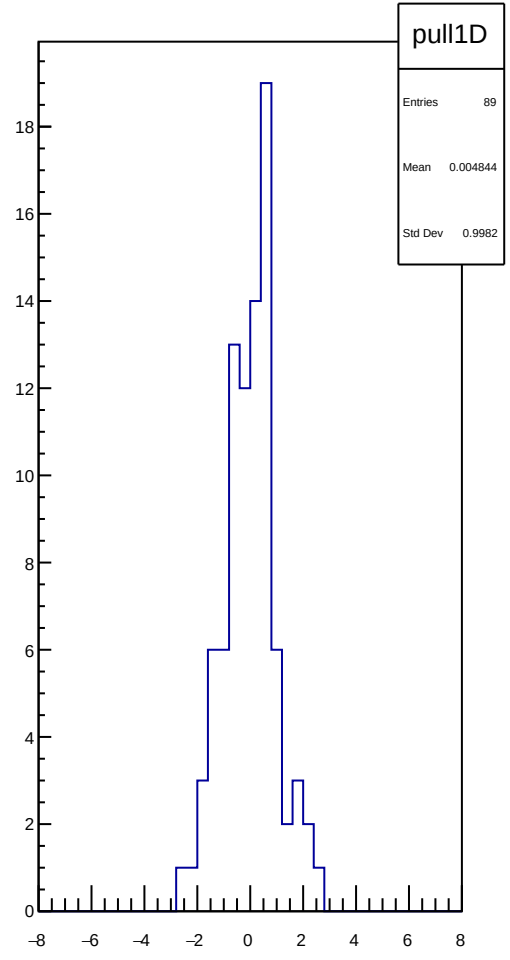
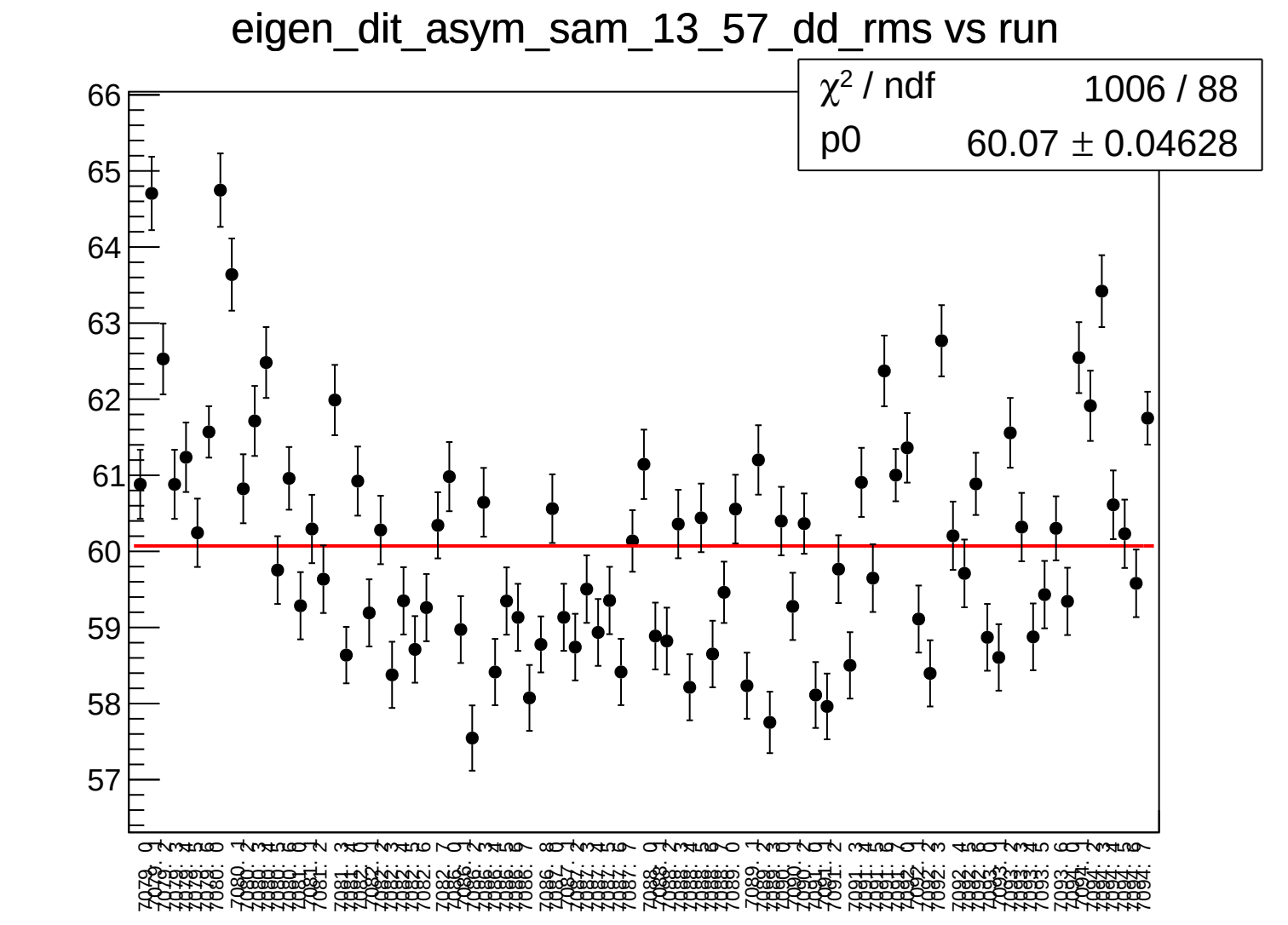
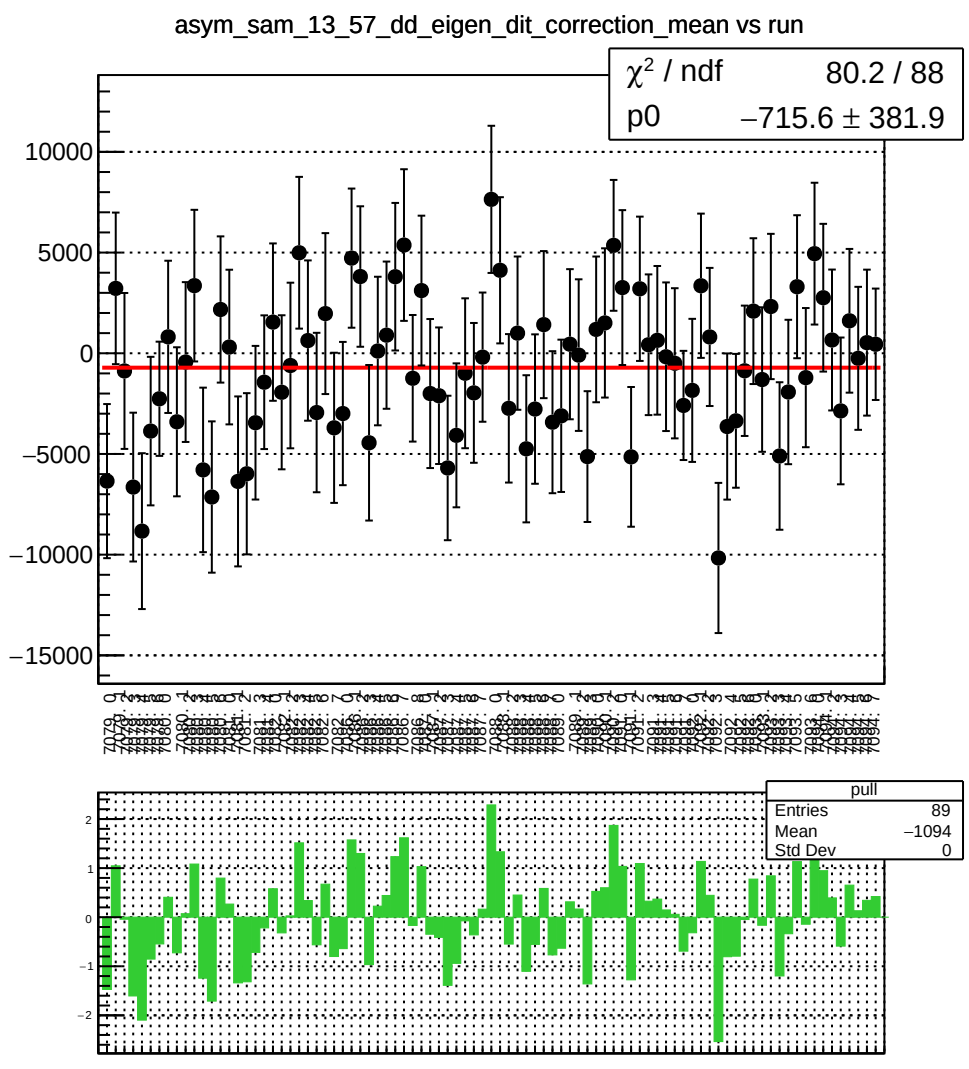
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

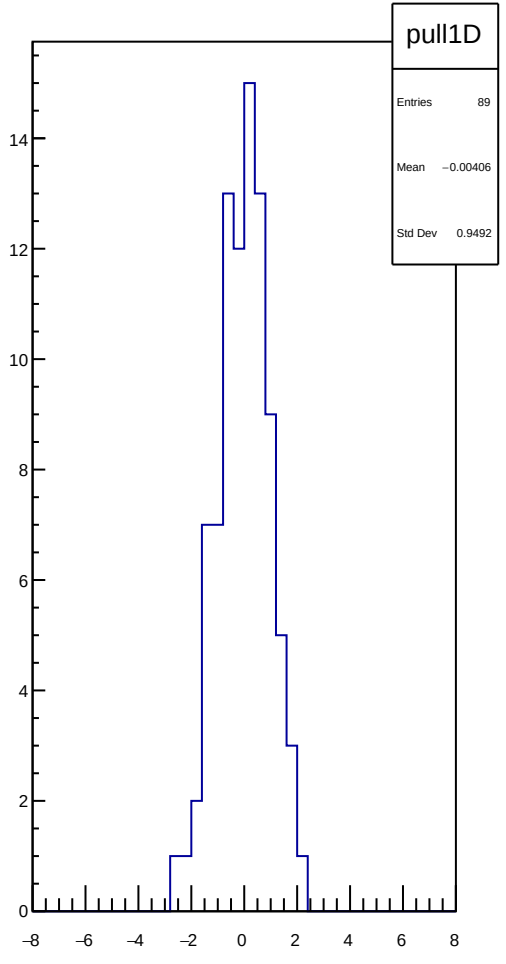

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 3214 / 88
p0 350.3 ± 0.27
400
380
360
340
320

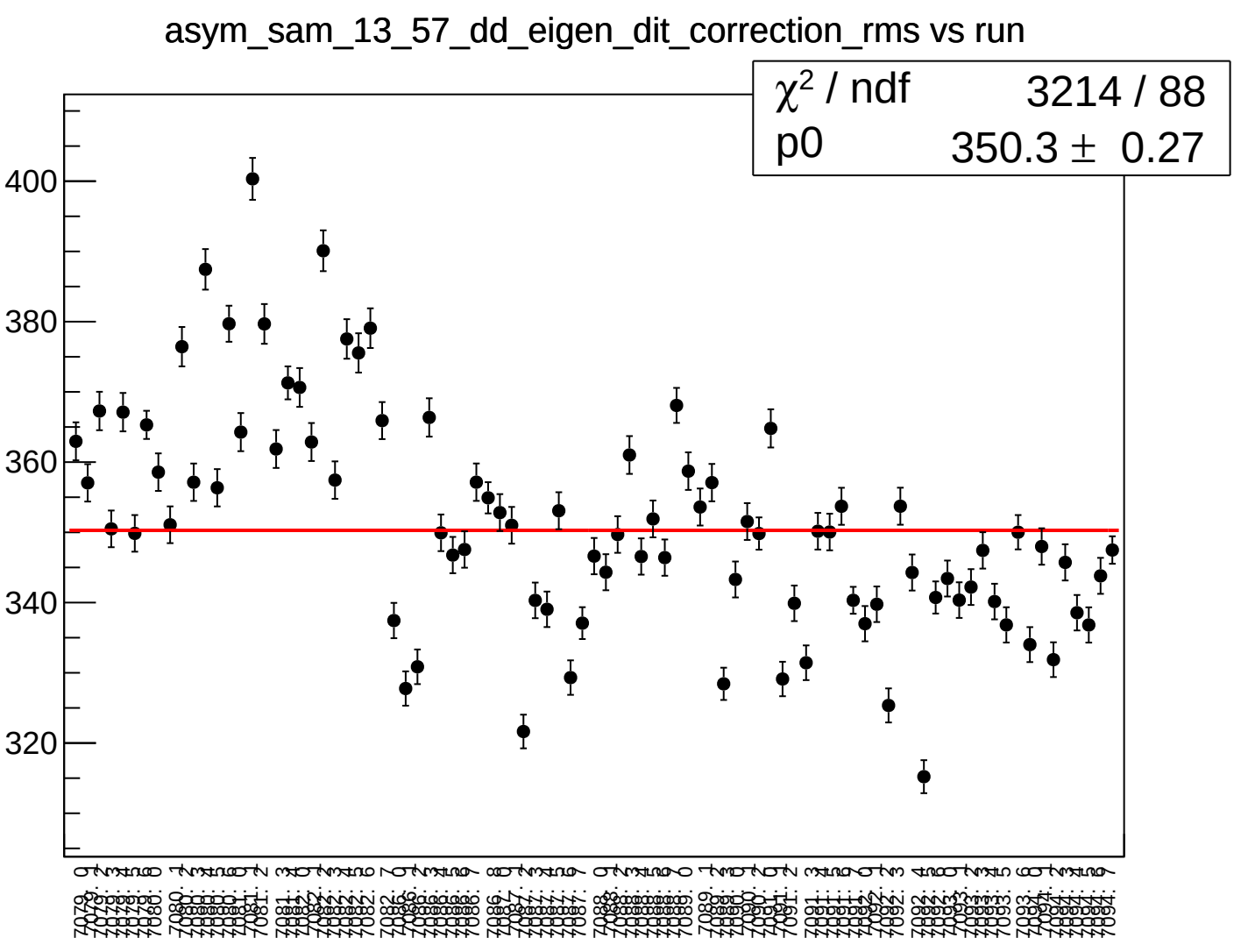

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 88.68 / 88
p0 −62.86 ± 65.44
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −546.8
Std Dev 0
2
1
0
−1

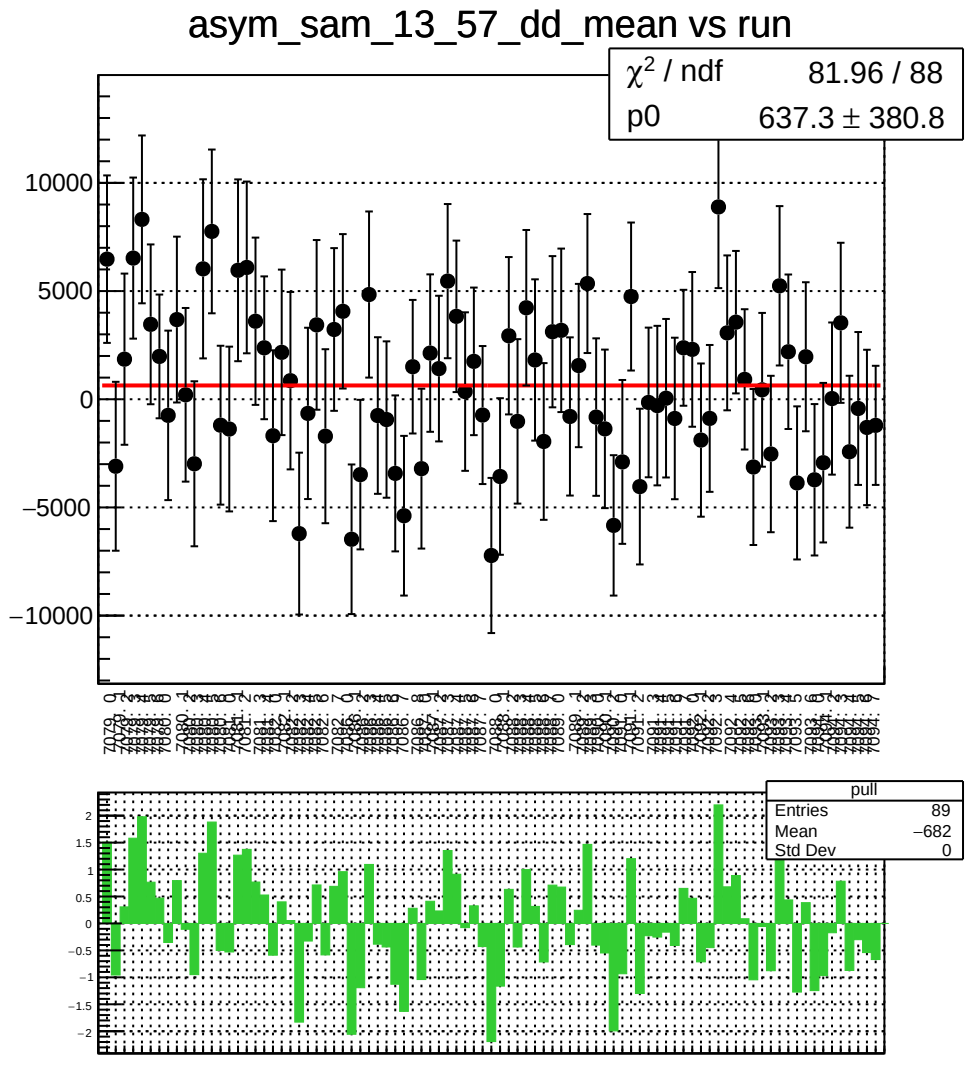

pull1D
Entries 89
Mean 0.004844
Std Dev 0.9982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

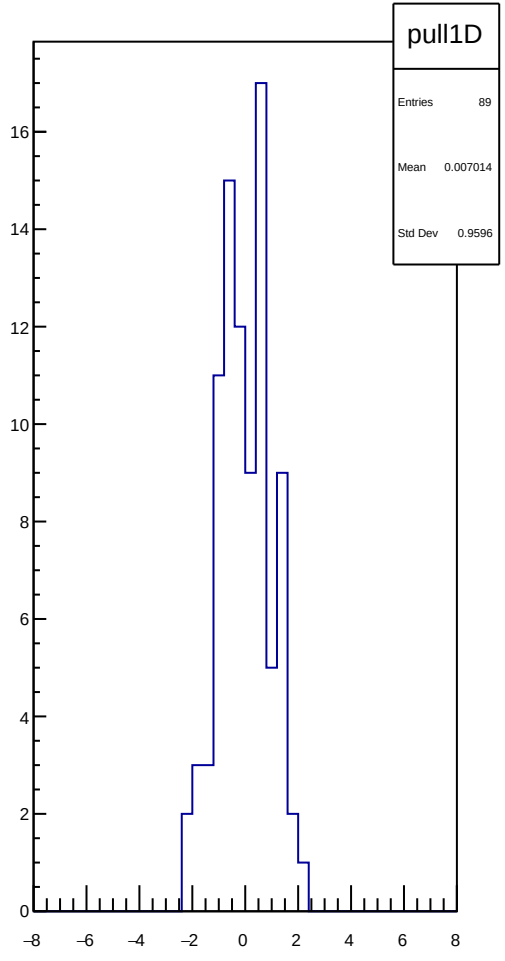

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1006 / 88
p0 60.07 ± 0.04628
66
65
64
63
62
61
60
59
58
57

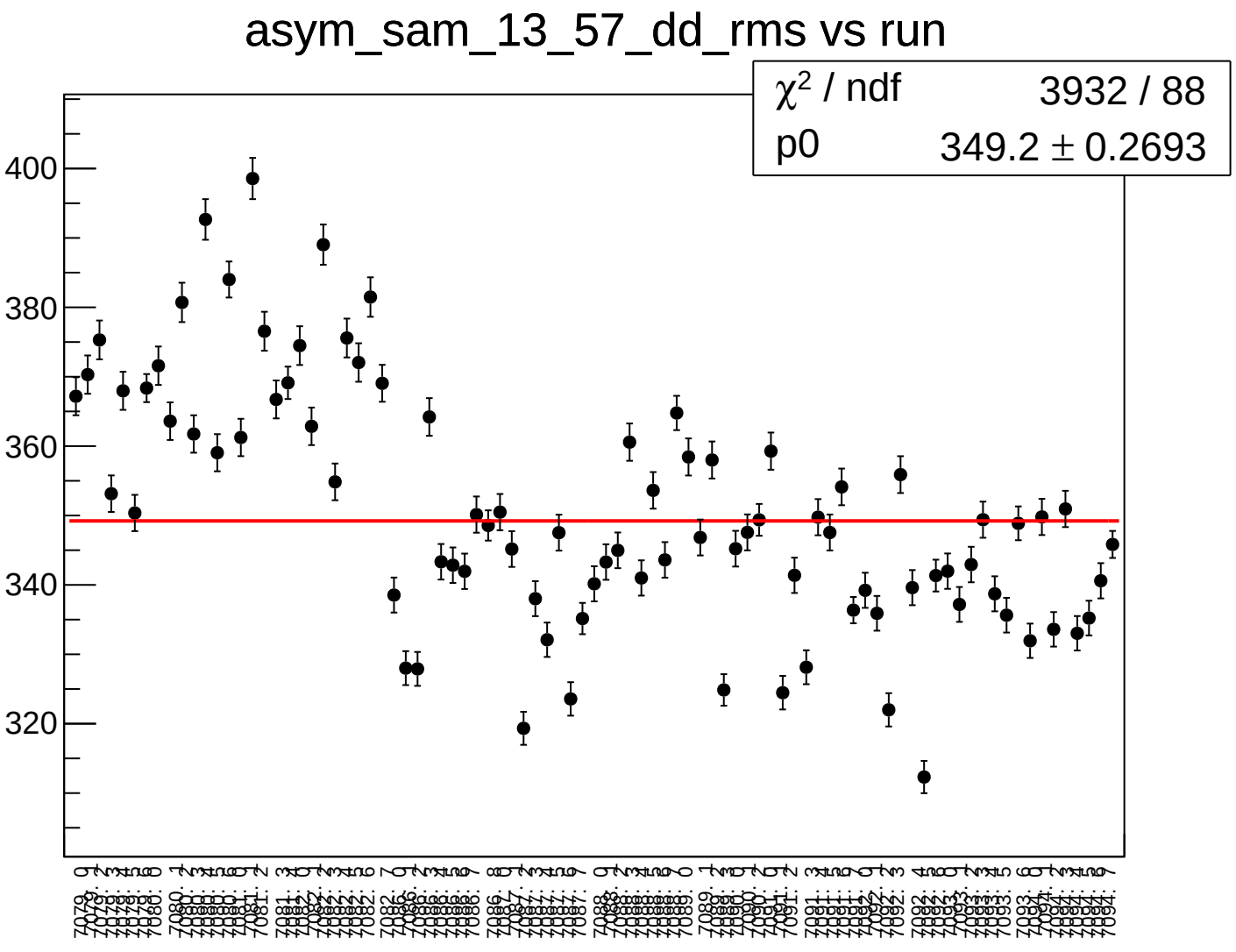

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.2 / 88
p0 −715.6 ± 381.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −1094
Std Dev 0
2
1
0
−1
−2

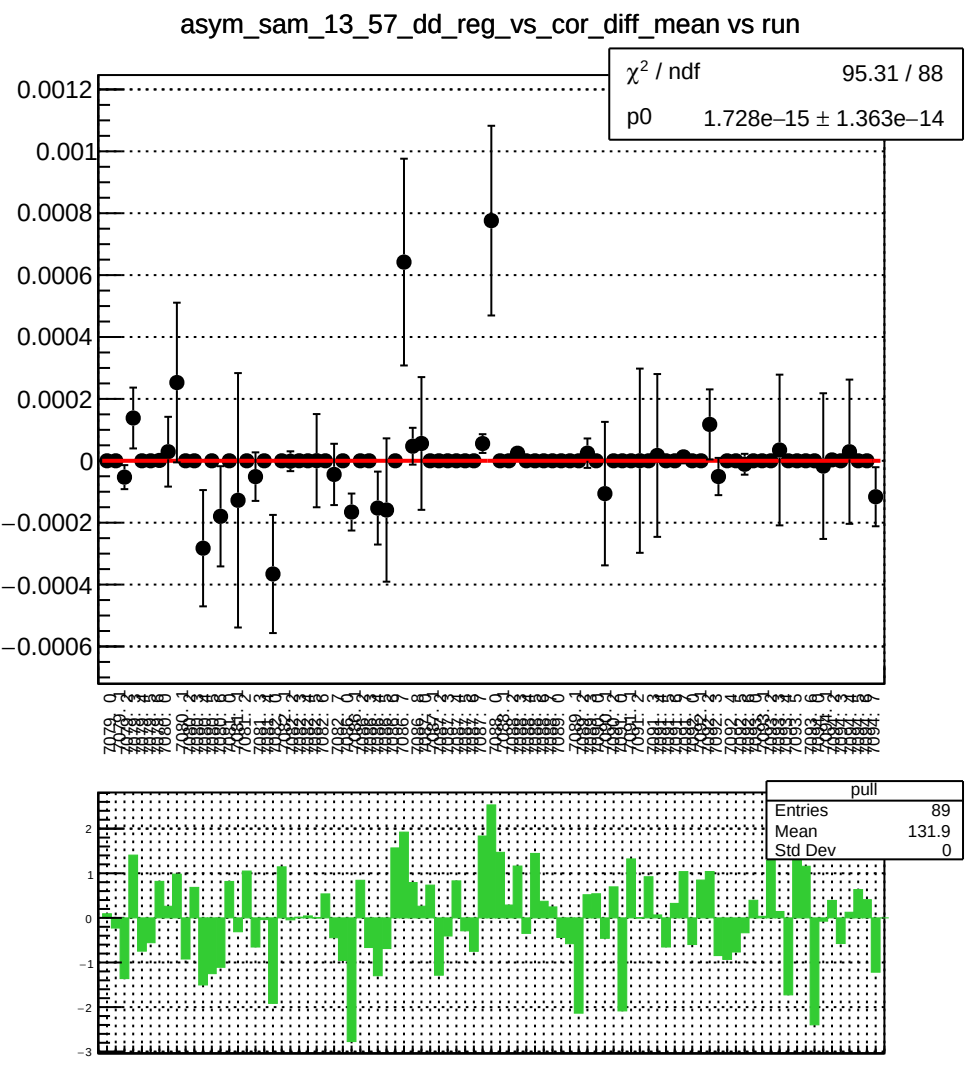

pull1D
Entries 89
Mean −0.00406
Std Dev 0.9492
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

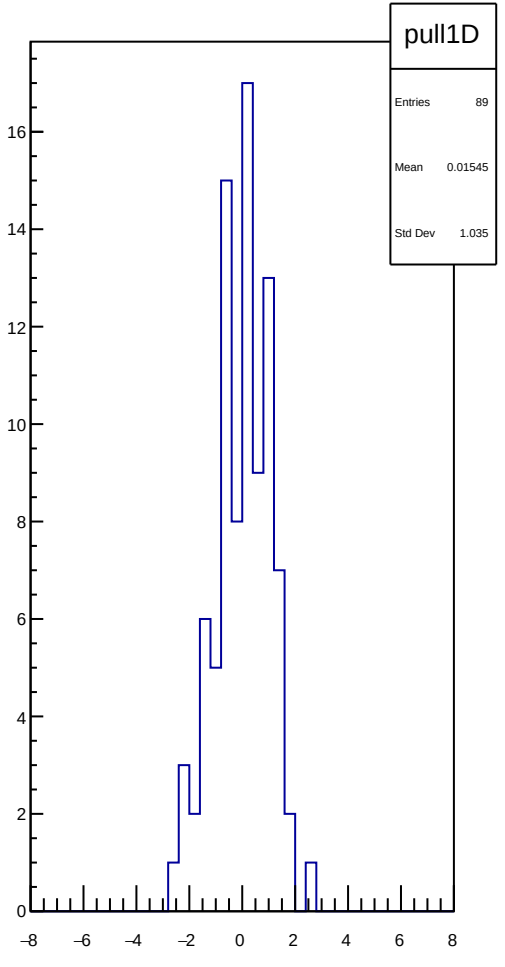

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 3214 / 88
p0 350.3 ± 0.27
400
380
360
340
320

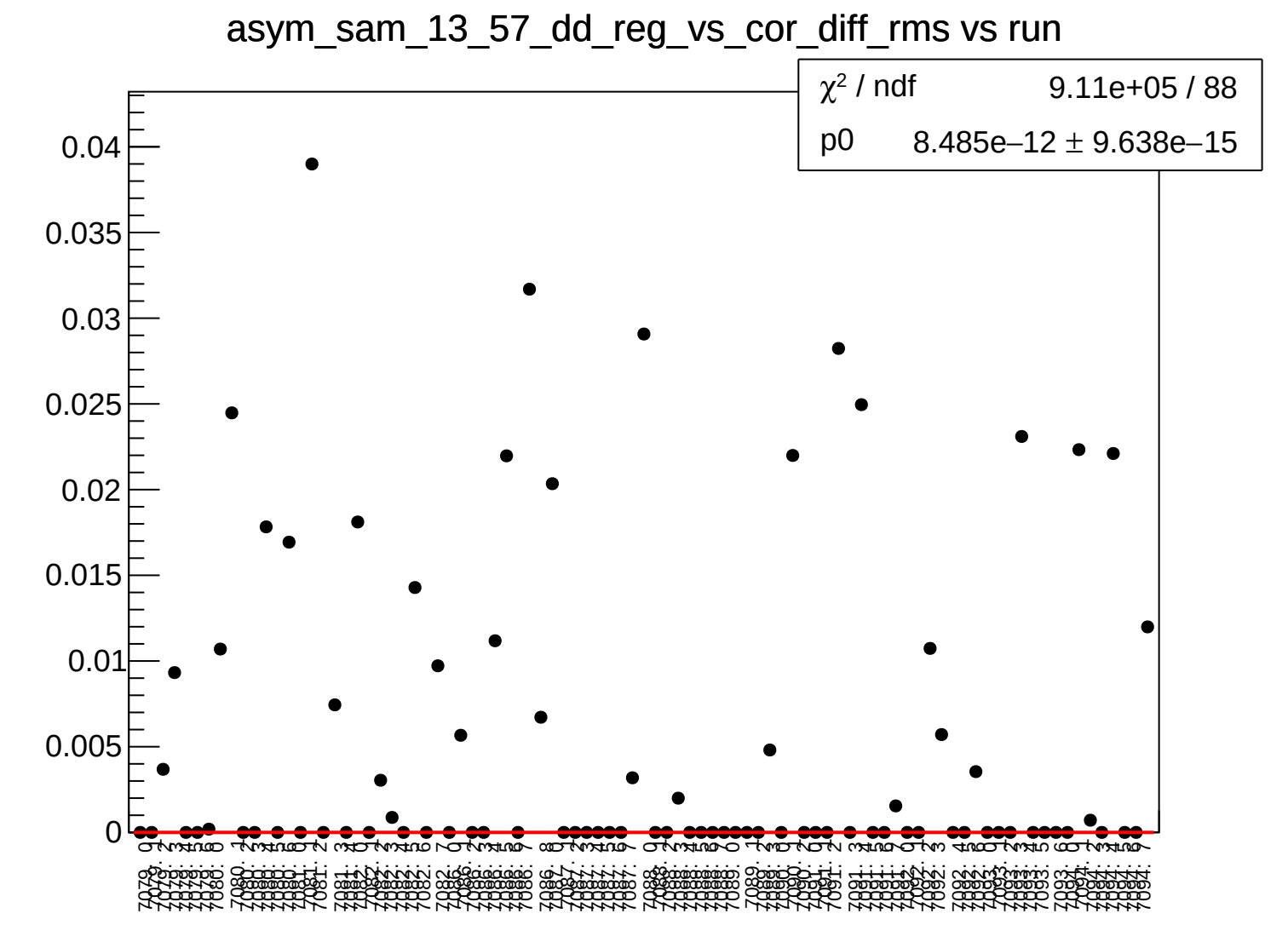

asym_sam_13_57_dd_mean vs run
χ² / ndf 81.96 / 88
p0 637.3 ± 380.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −682
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

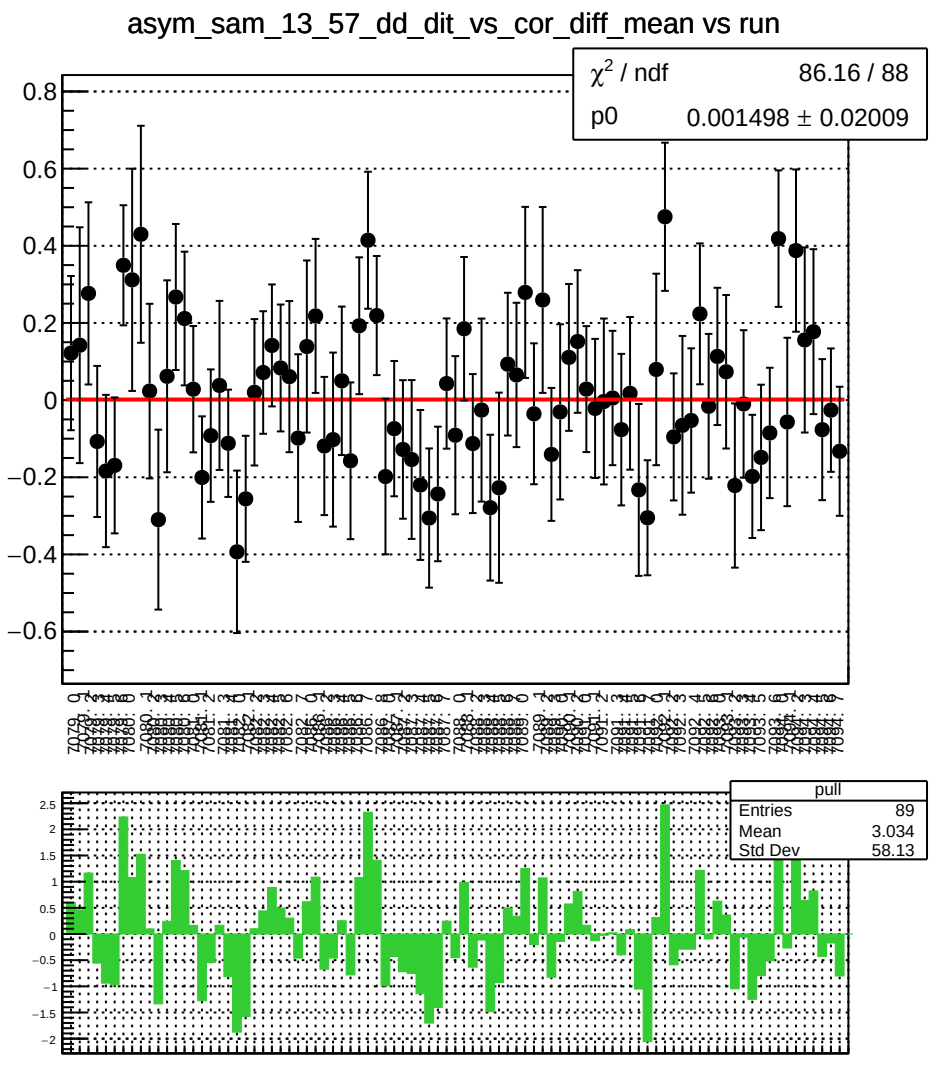

pull1D
Entries 89
Mean 0.007014
Std Dev 0.9596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

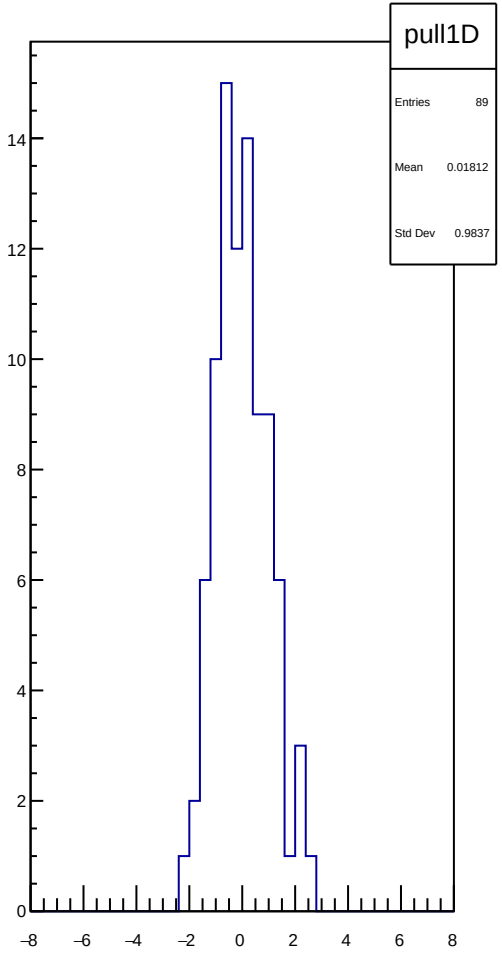

asym_sam_13_57_dd_rms vs run
χ² / ndf 3932 / 88
p0 349.2 ± 0.2693
400
380
360
340
320

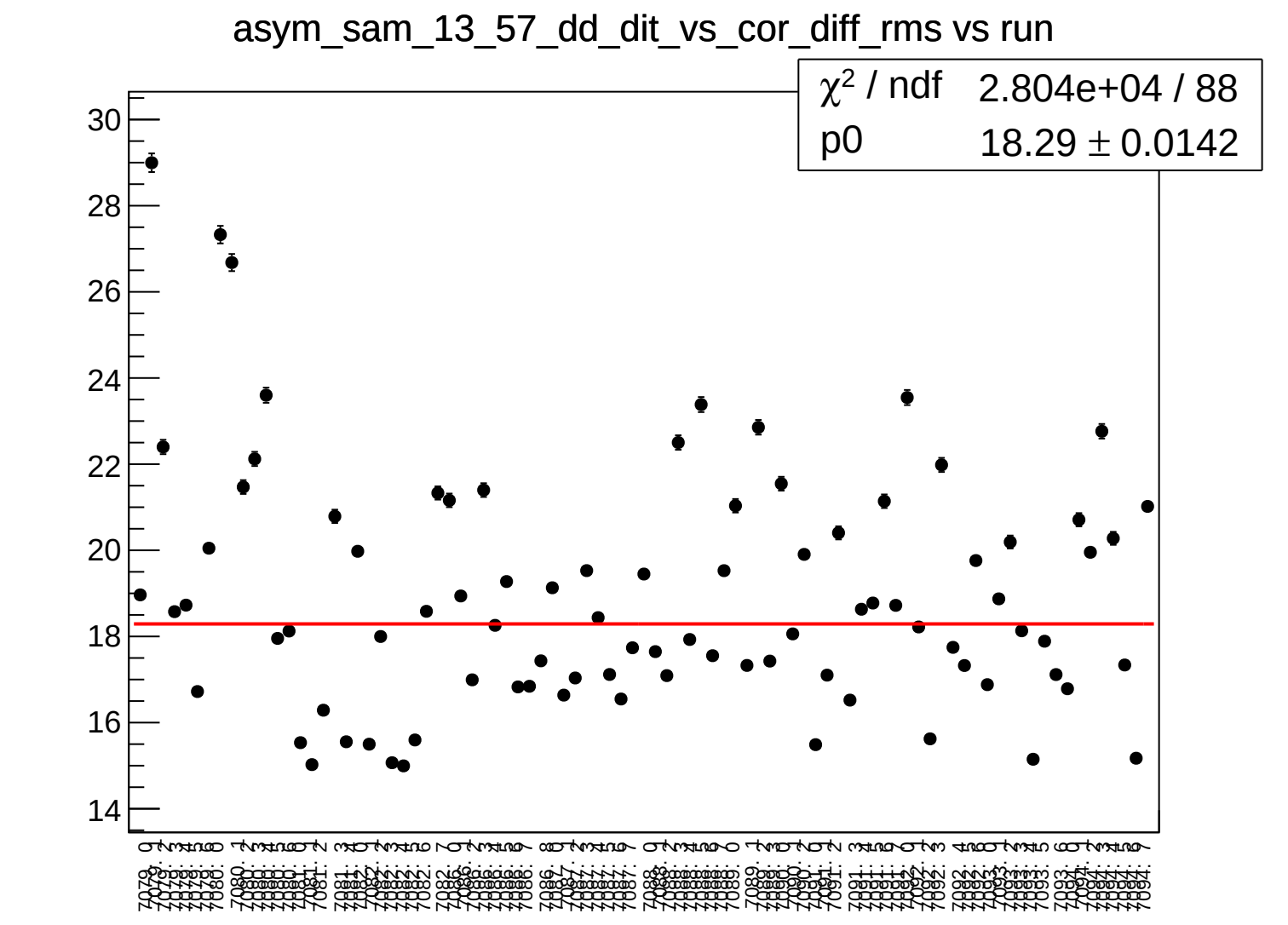

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.31 / 88
p0 1.728e−15 ± 1.363e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 89
Mean 131.9
Std Dev 0
2
1
0
−1
−2
−3

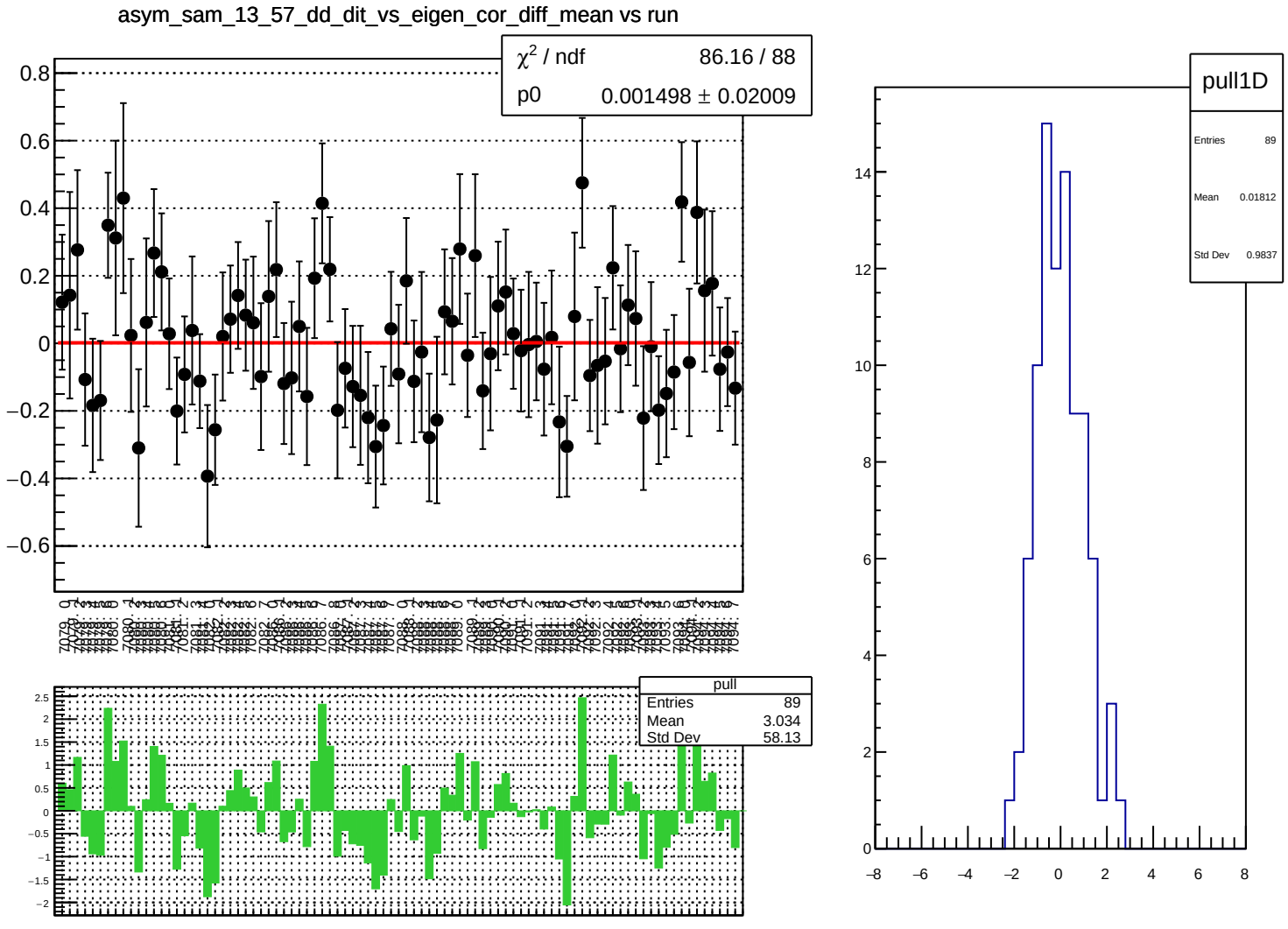

pull1D
Entries 89
Mean 0.01545
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

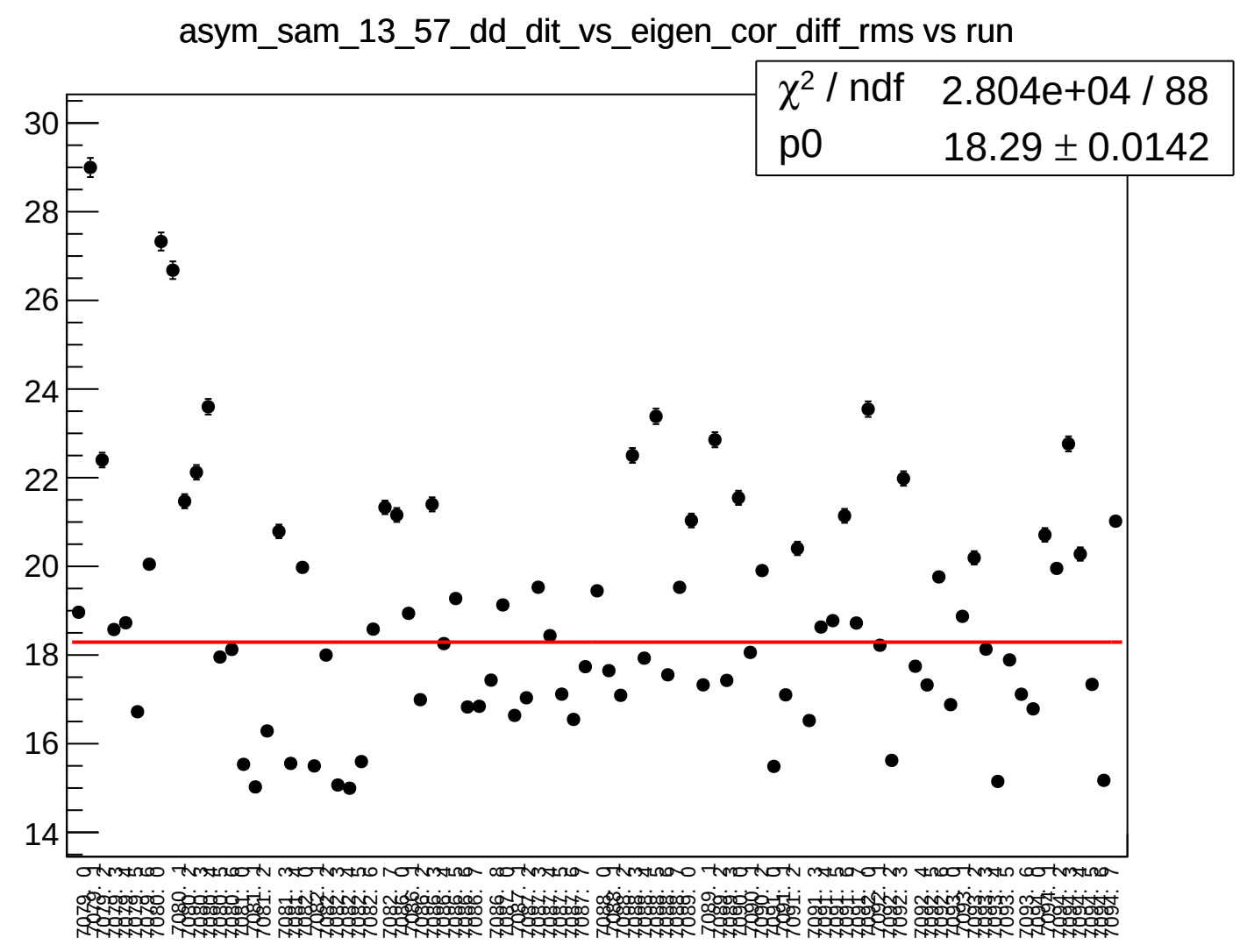

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.11e+05 / 88
p0 8.485e−12 ± 9.638e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

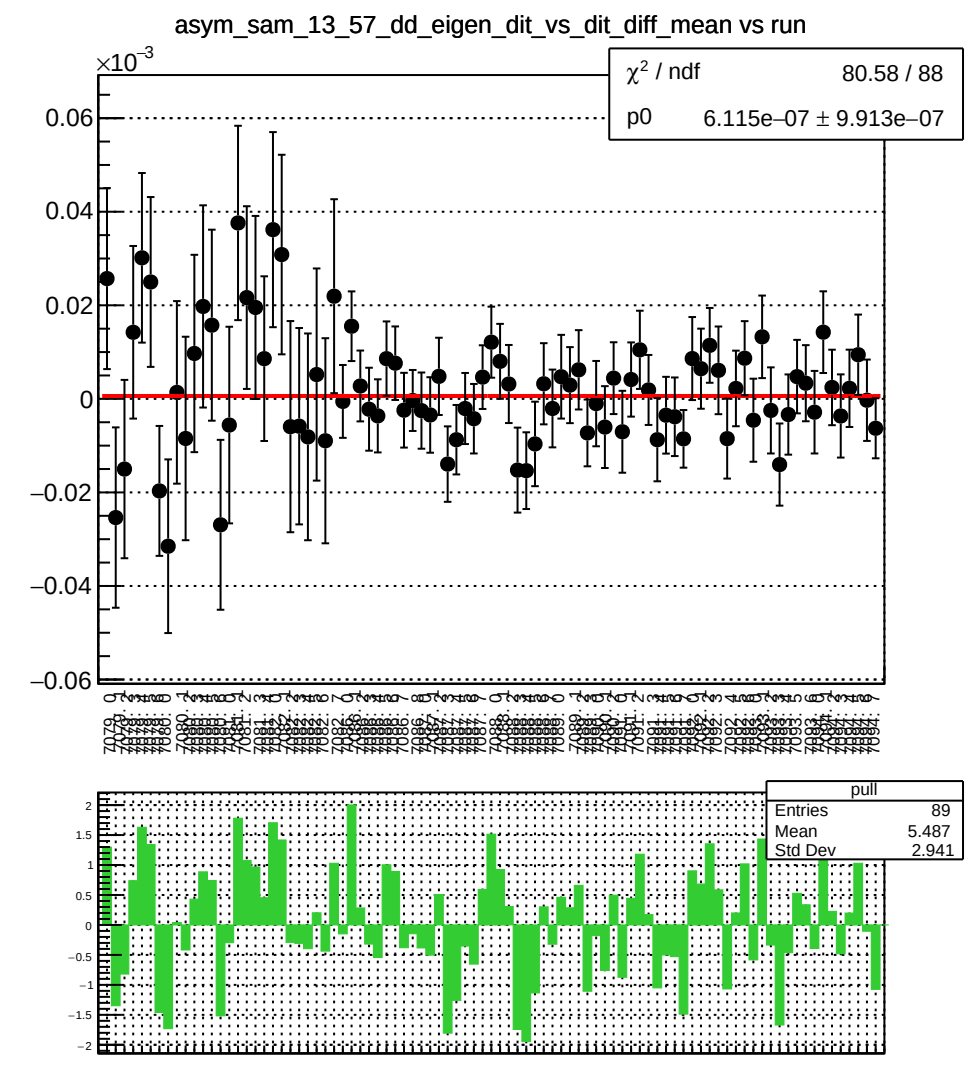

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.16 / 88
p0 0.001498 ± 0.02009
pull
Entries 89
Mean 3.034
Std Dev 58.13

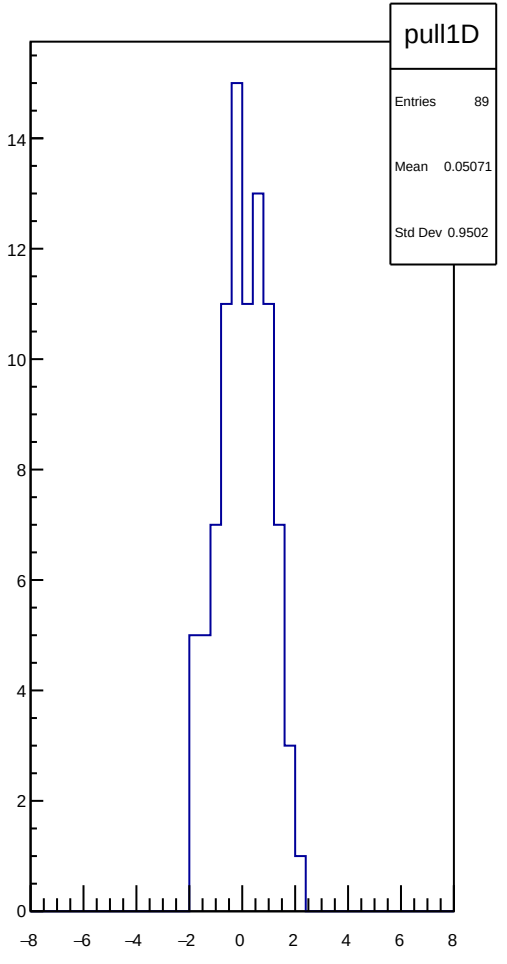

pull1D
Entries 89
Mean 0.01812
Std Dev 0.9837

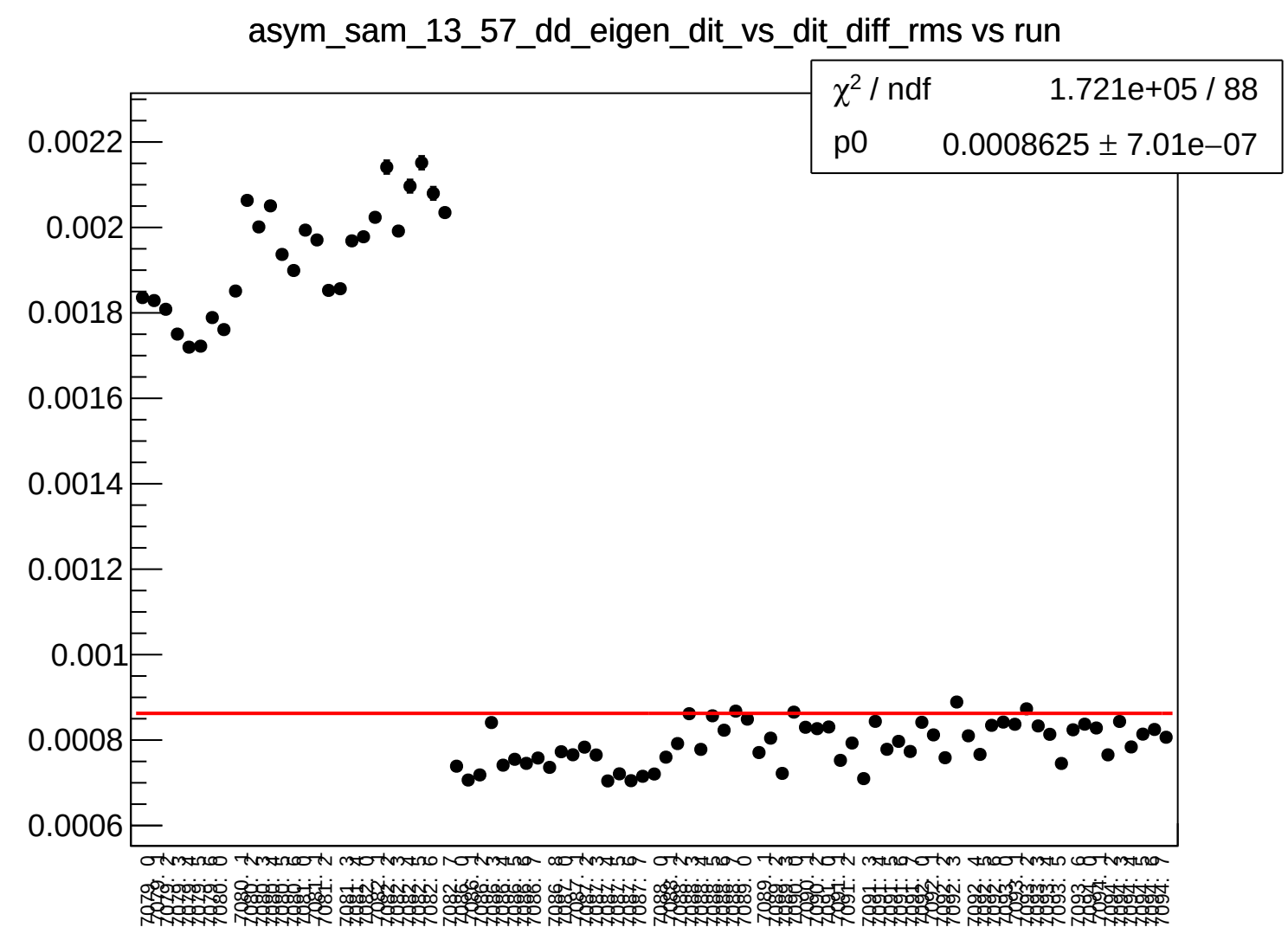

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 88
p0 18.29 ± 0.0142
30
28
26
24
22
20
18
16
14

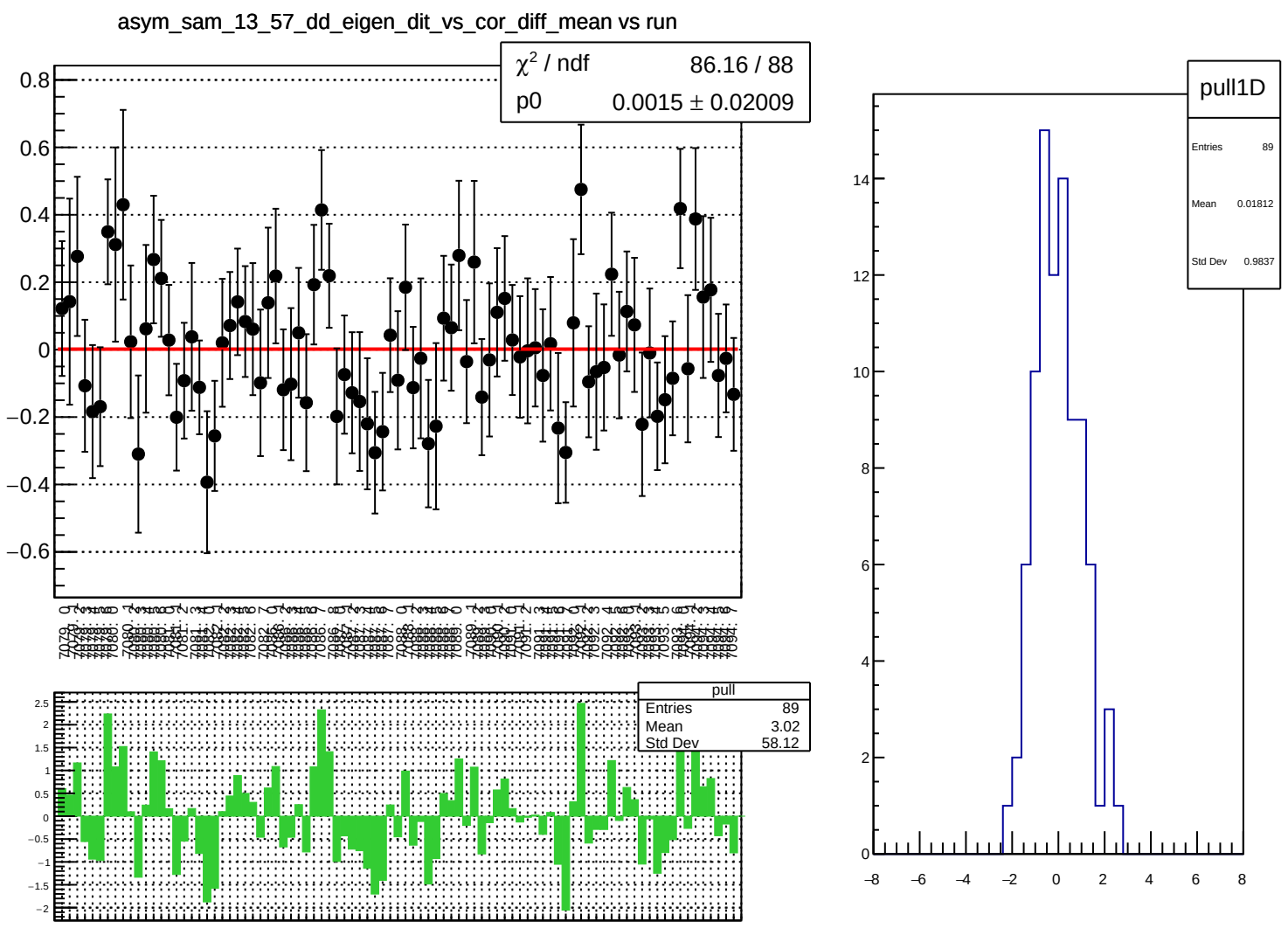

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.16 / 88
p0 0.001498 ± 0.02009
pull
Entries 89
Mean 3.034
Std Dev 58.13
pull1D
Entries 89
Mean 0.01812
Std Dev 0.9837

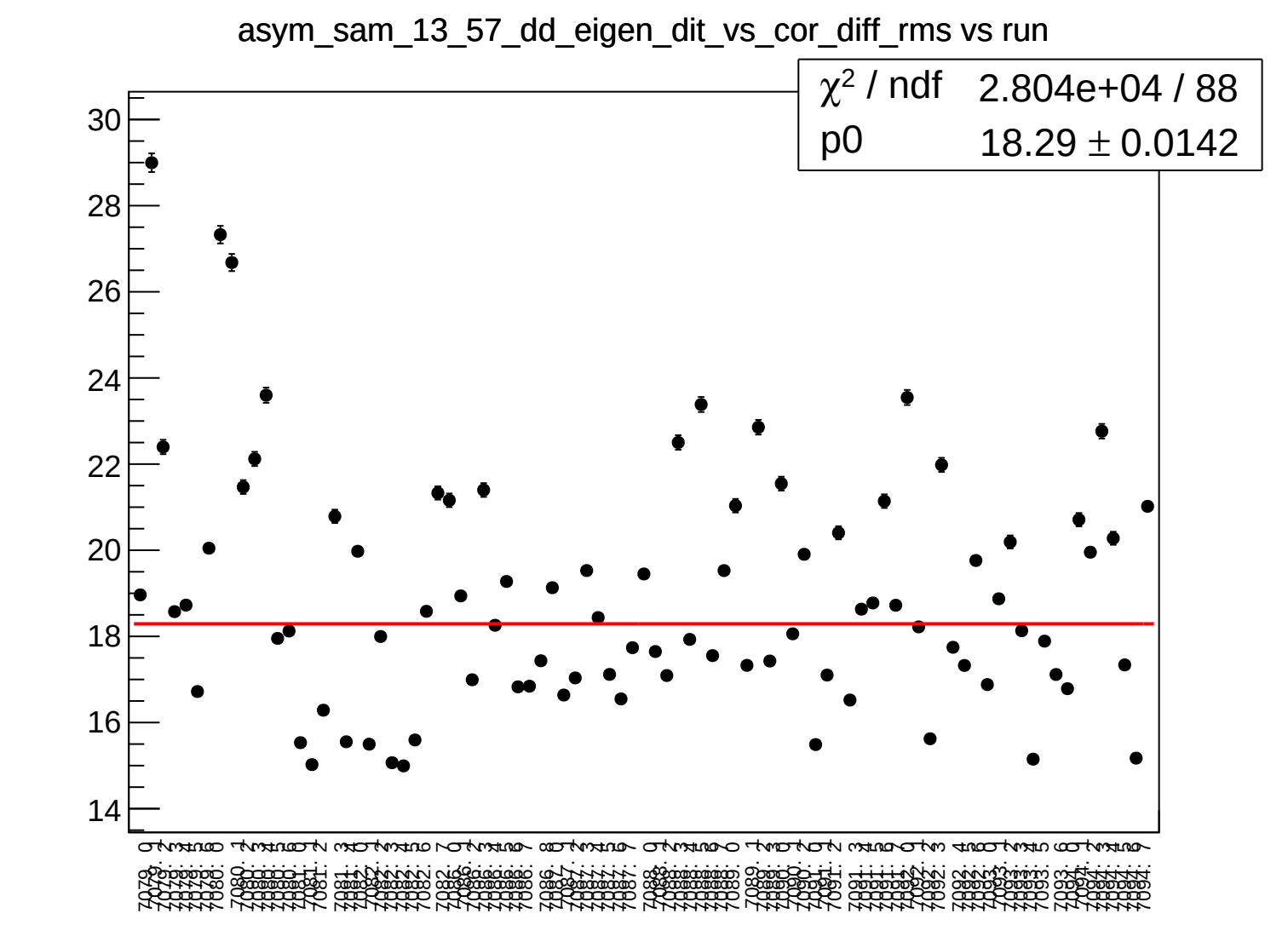

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 88
p0 18.29 ± 0.0142
30
28
26
24
22
20
18
16
14


asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.58 / 88
p0 6.115e−07 ± 9.913e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 5.487
Std Dev 2.941
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

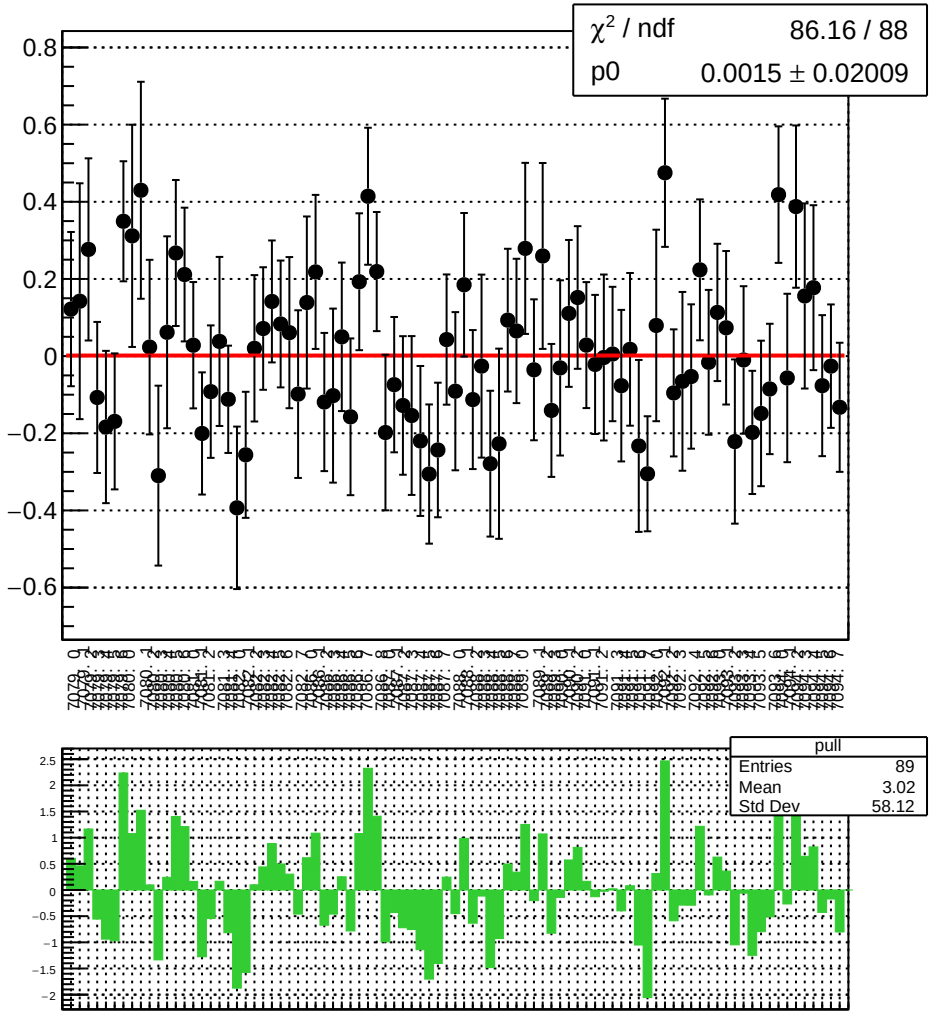

pull1D
Entries 89
Mean 0.05071
Std Dev 0.9502
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

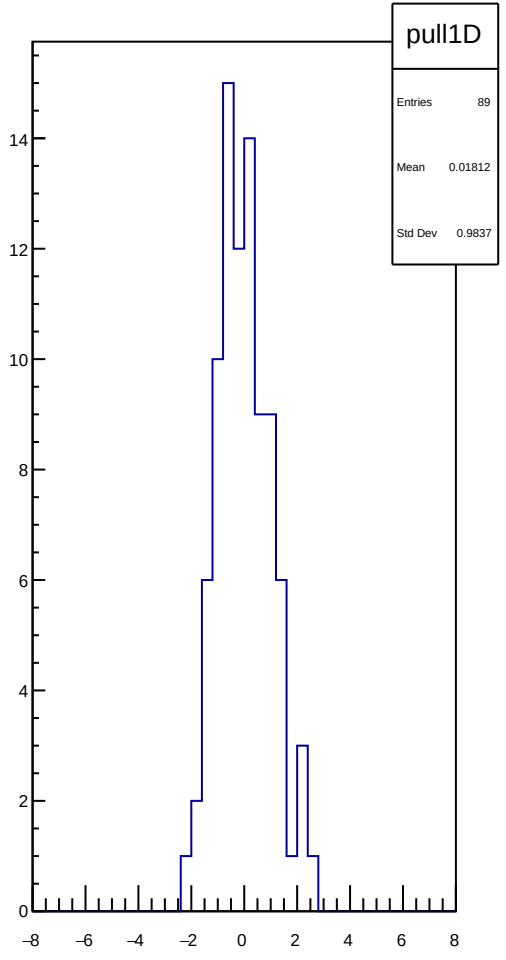

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.721e+05 / 88
p0 0.0008625 ± 7.01e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

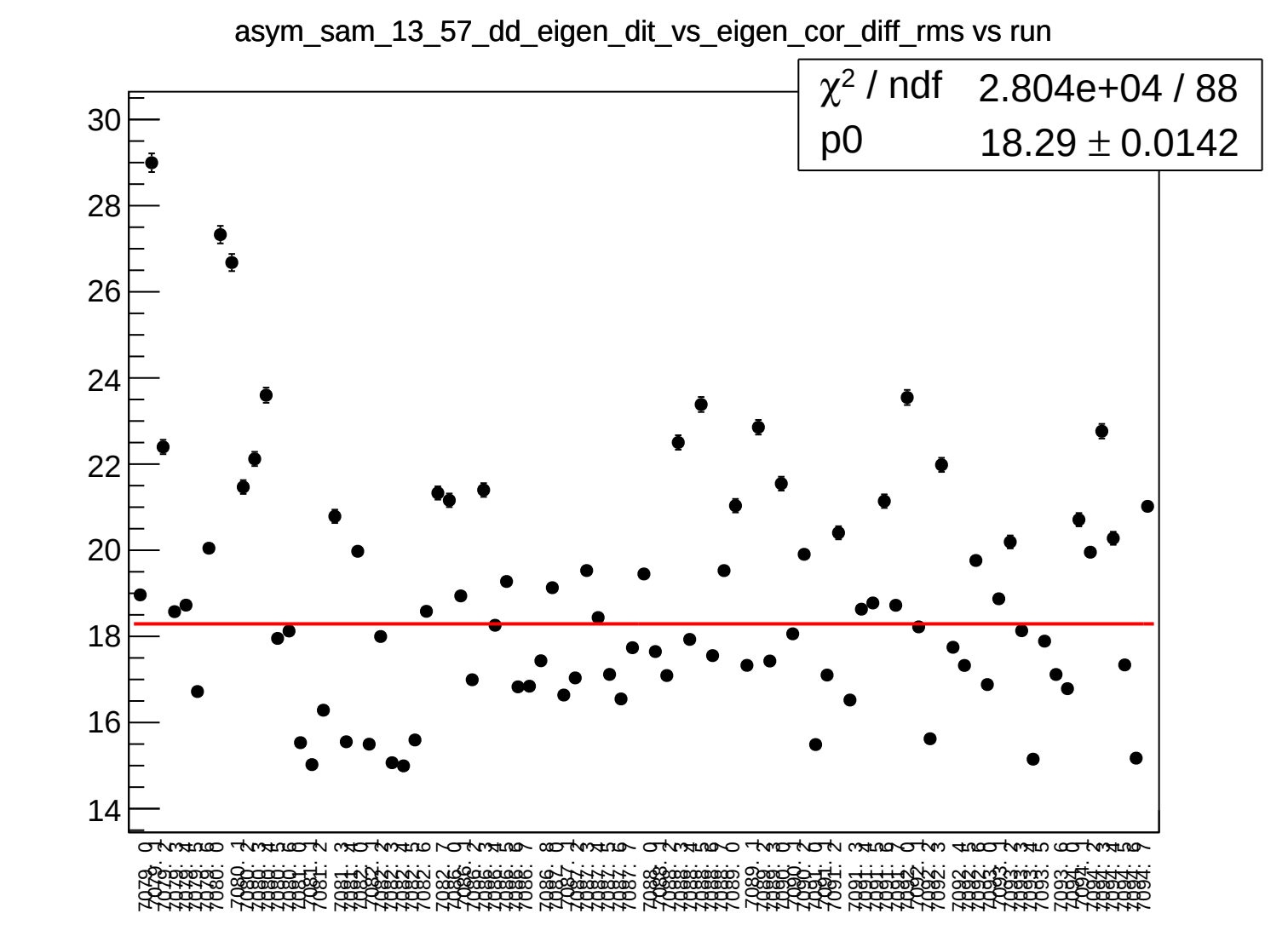

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.16 / 88
p0 0.0015 ± 0.02009
pull
Entries 89
Mean 3.02
Std Dev 58.12
pull1D
Entries 89
Mean 0.01812
Std Dev 0.9837

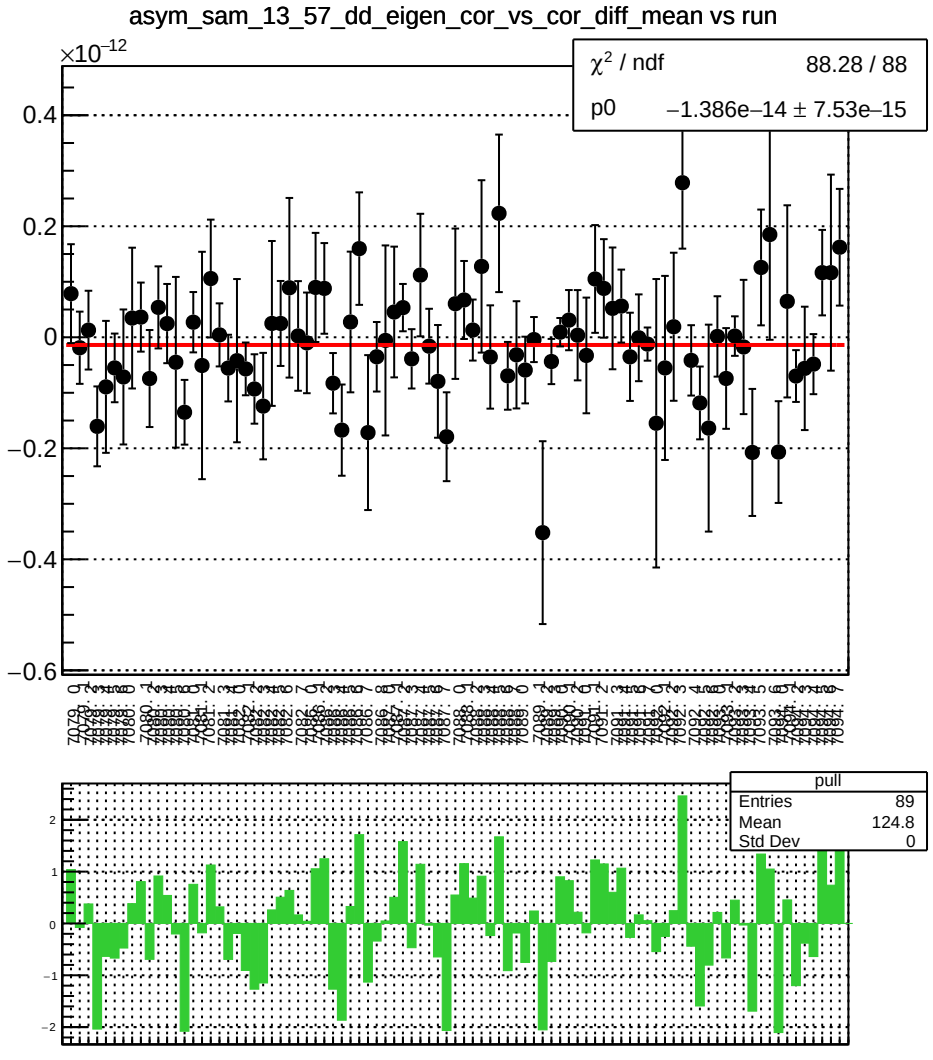

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 88
p0 18.29 ± 0.0142
30
28
26
24
22
20
18
16
14

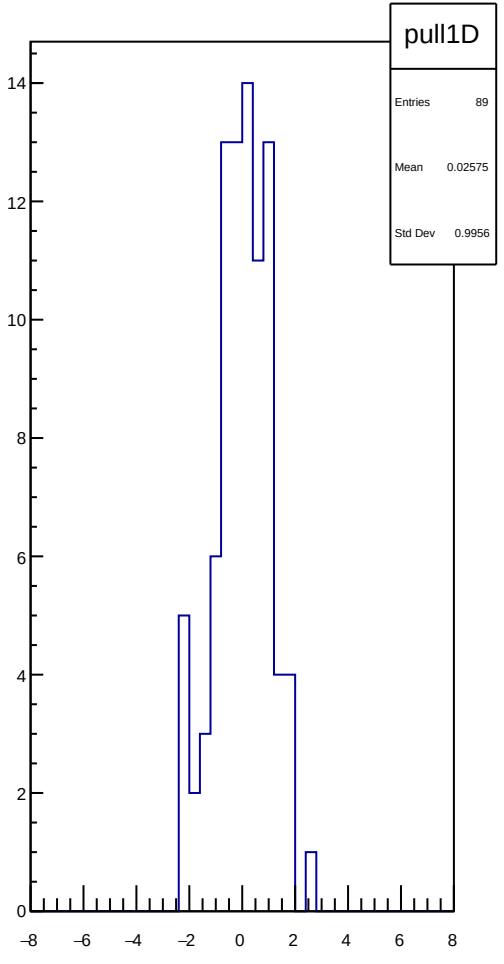
asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

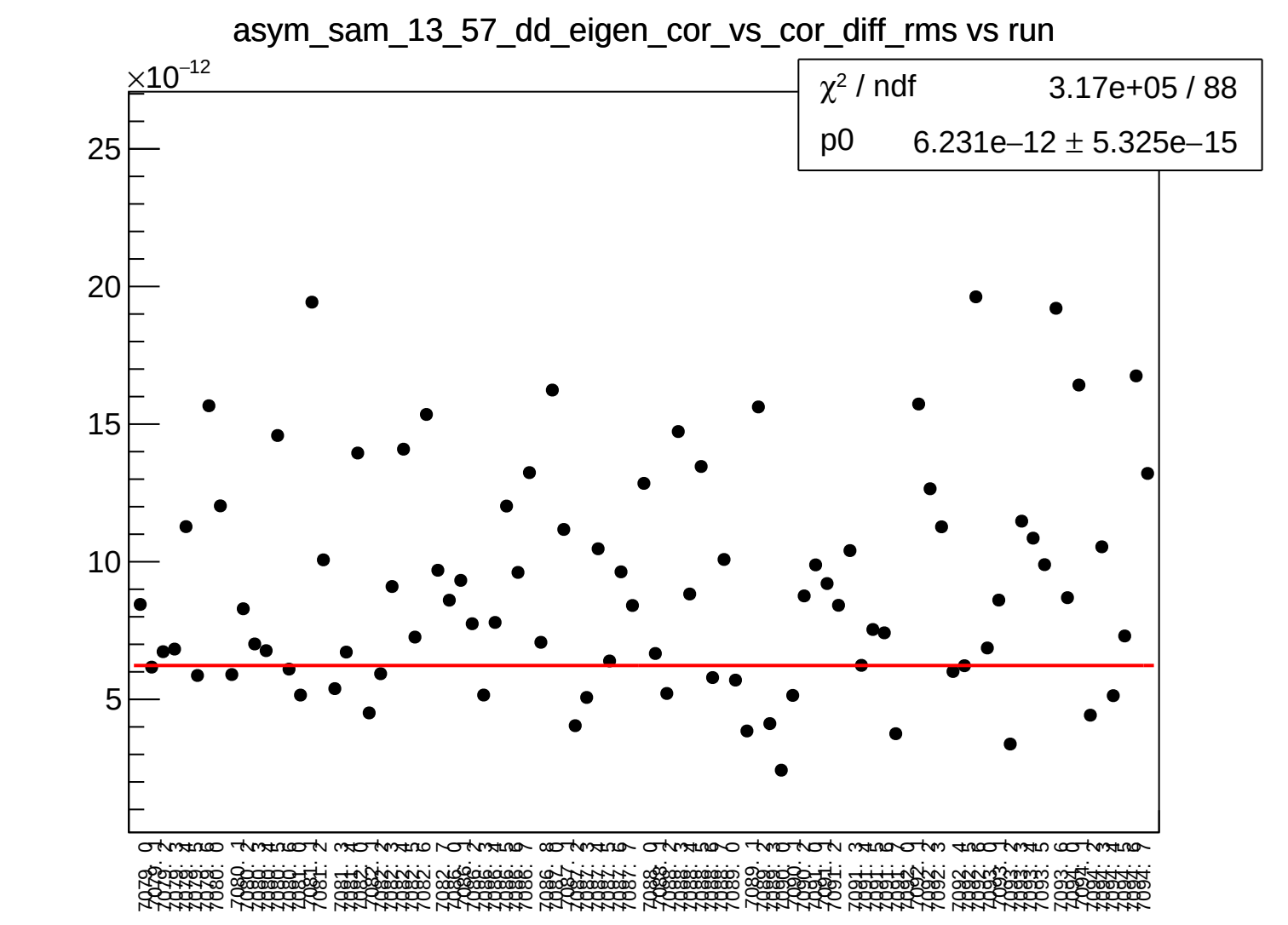


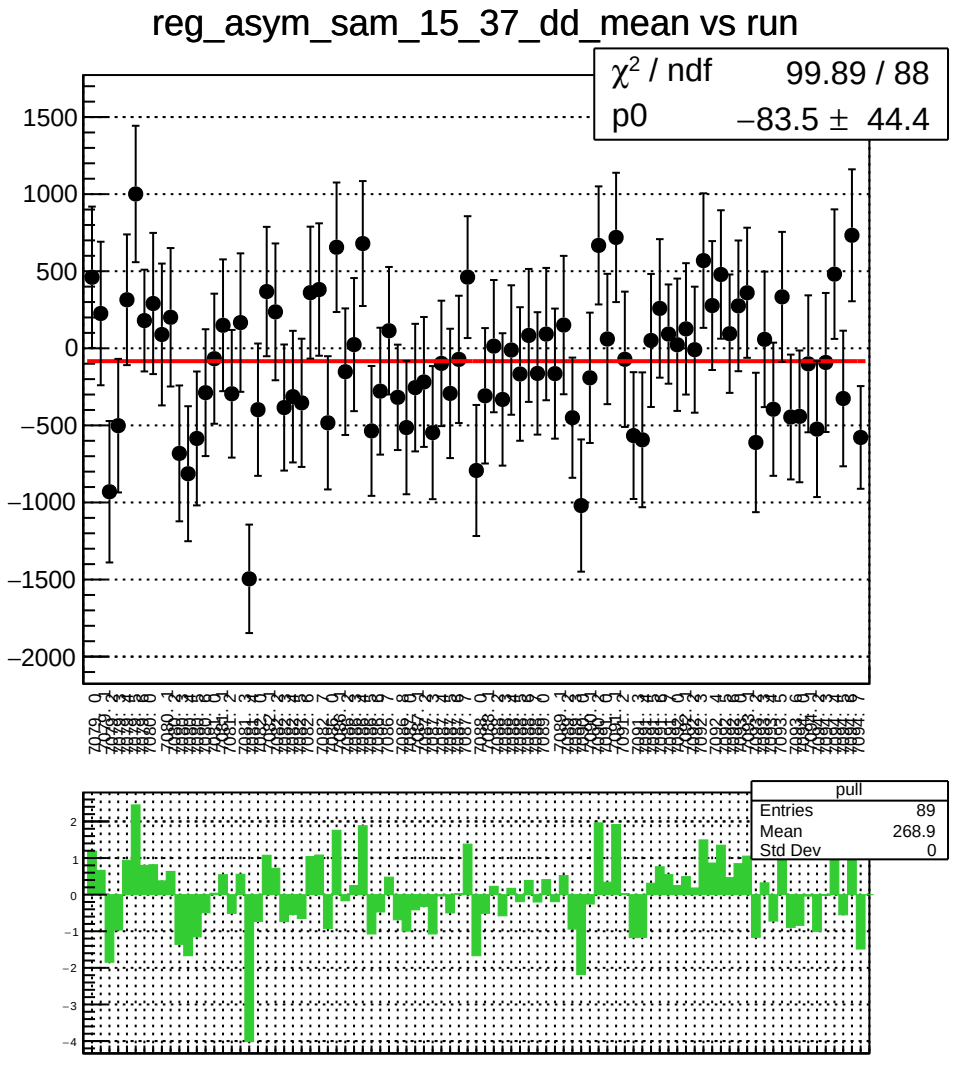


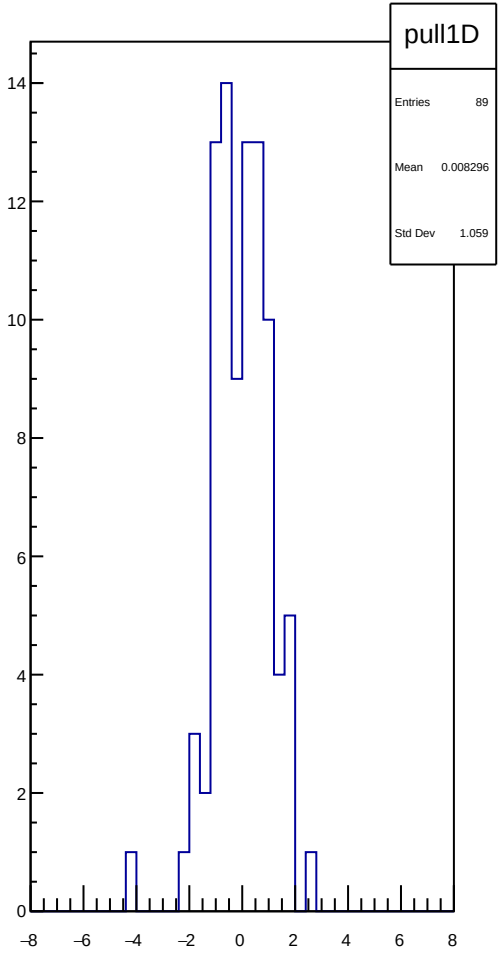

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 88
p0 18.29 ± 0.0142
30
28
26
24
22
20
18
16
14

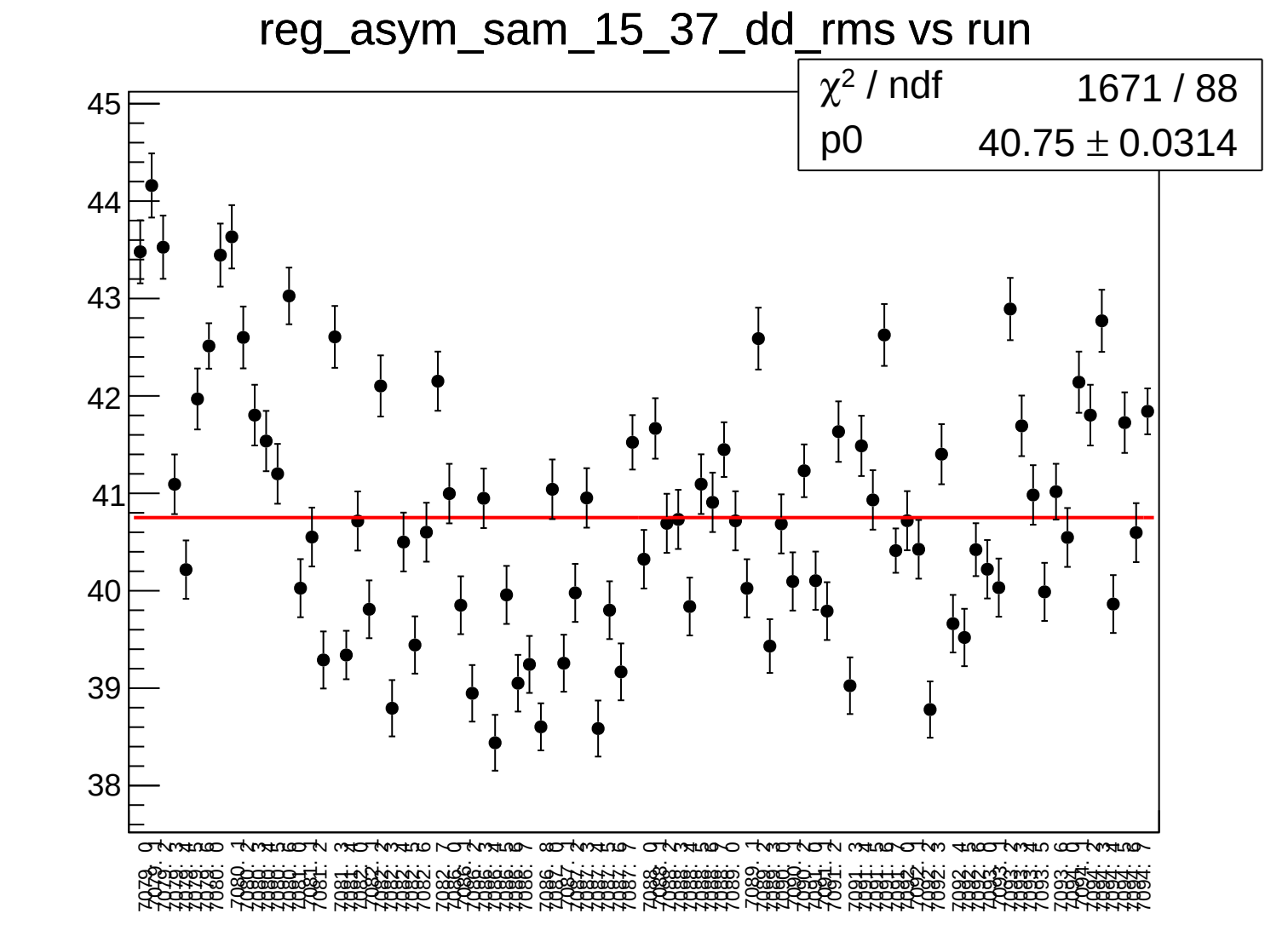

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.28 / 88
p0 −1.386e−14 ± 7.53e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 89
Mean 124.8
Std Dev 0
2
1
0
−1
−2

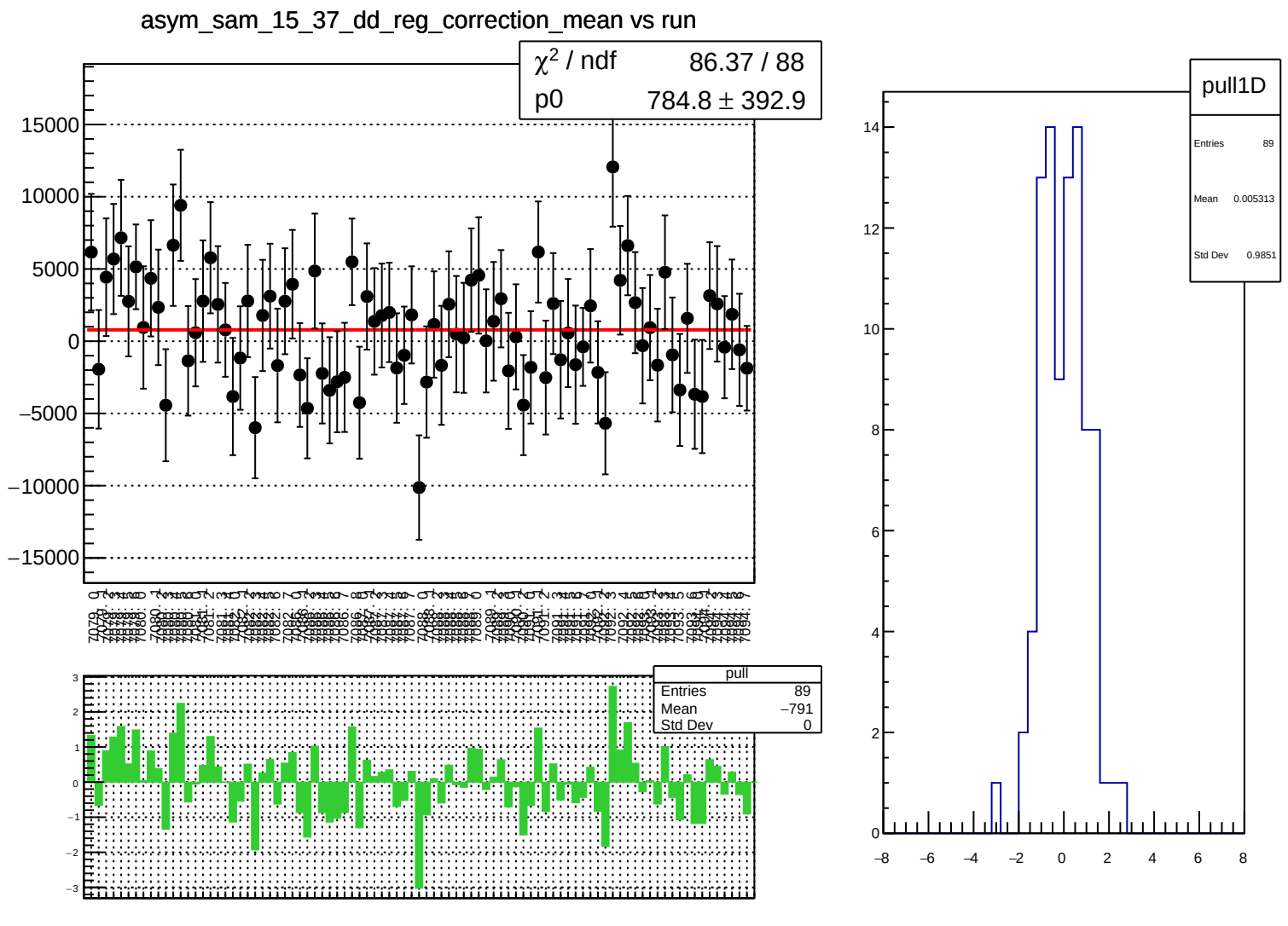

pull1D
Entries 89
Mean 0.02575
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

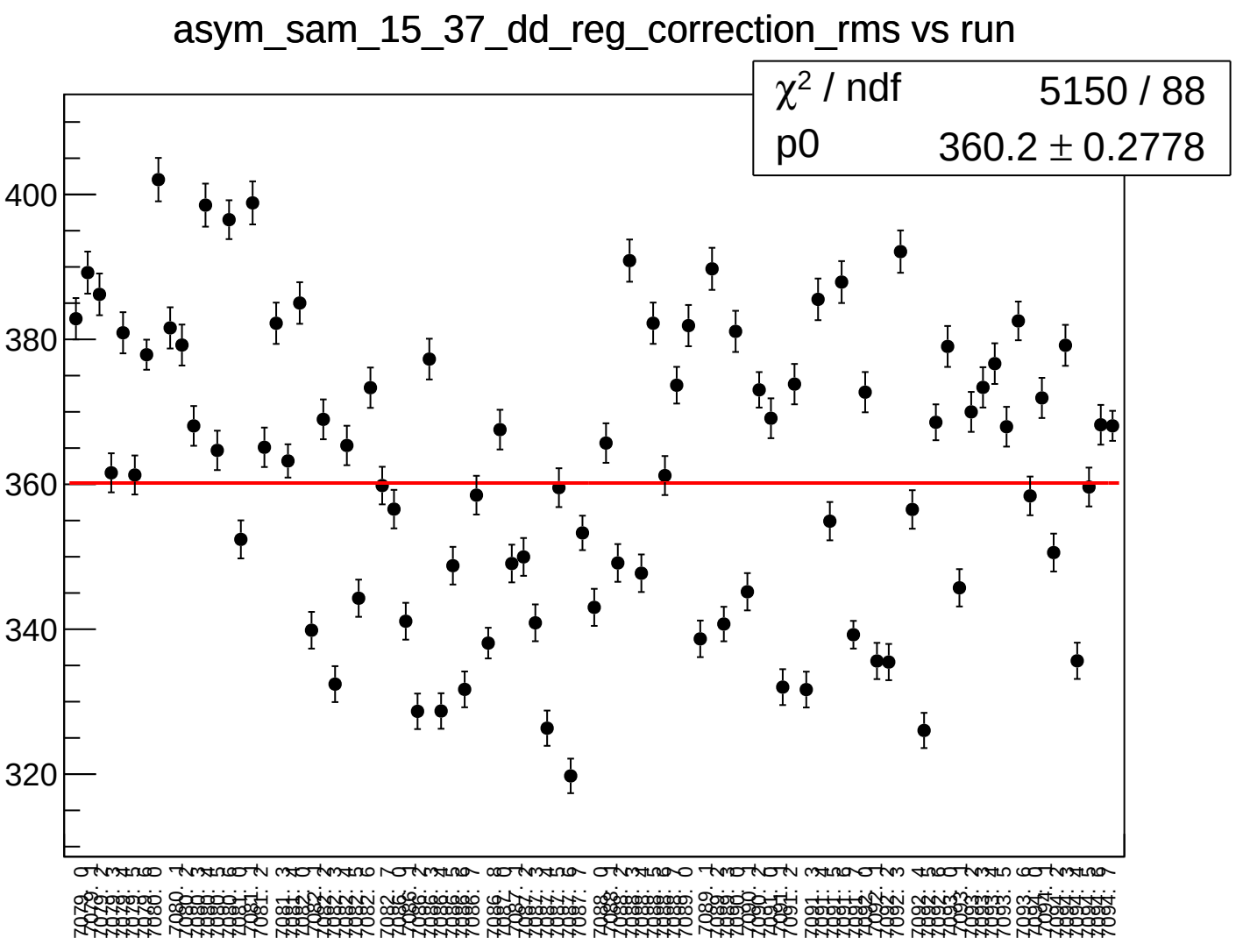

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.17e+05 / 88
p0 6.231e−12 ± 5.325e−15
25
20
15
10
5

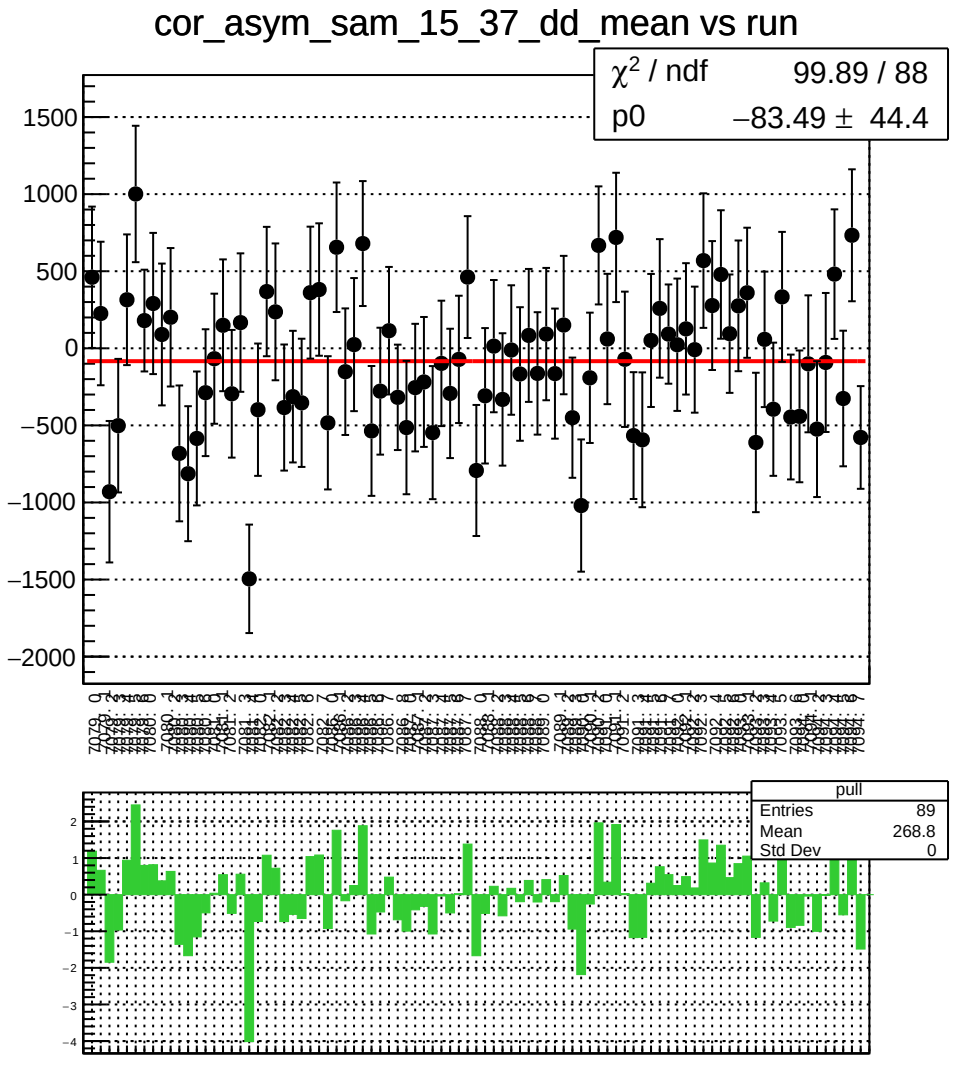

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 99.89 / 88
p0 −83.5 ± 44.4
pull
Entries 89
Mean 268.9
Std Dev 0

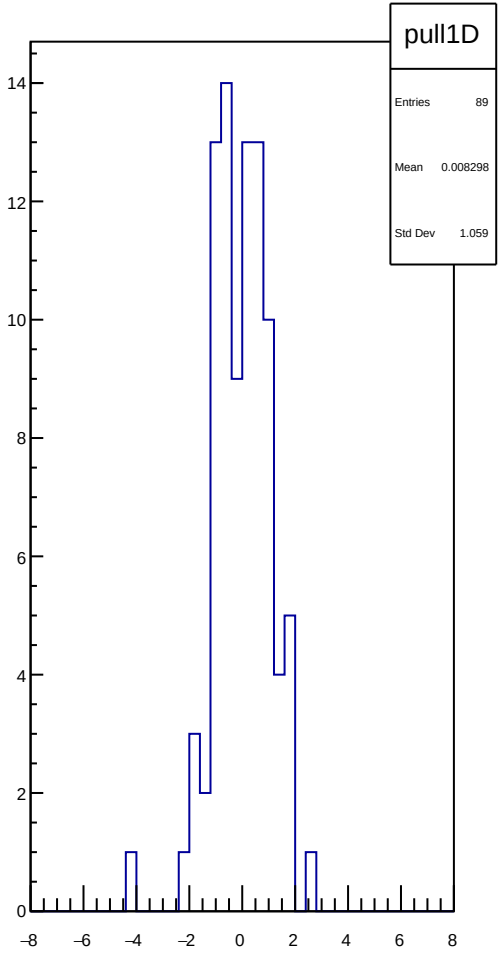

pull1D
Entries 89
Mean 0.008296
Std Dev 1.059

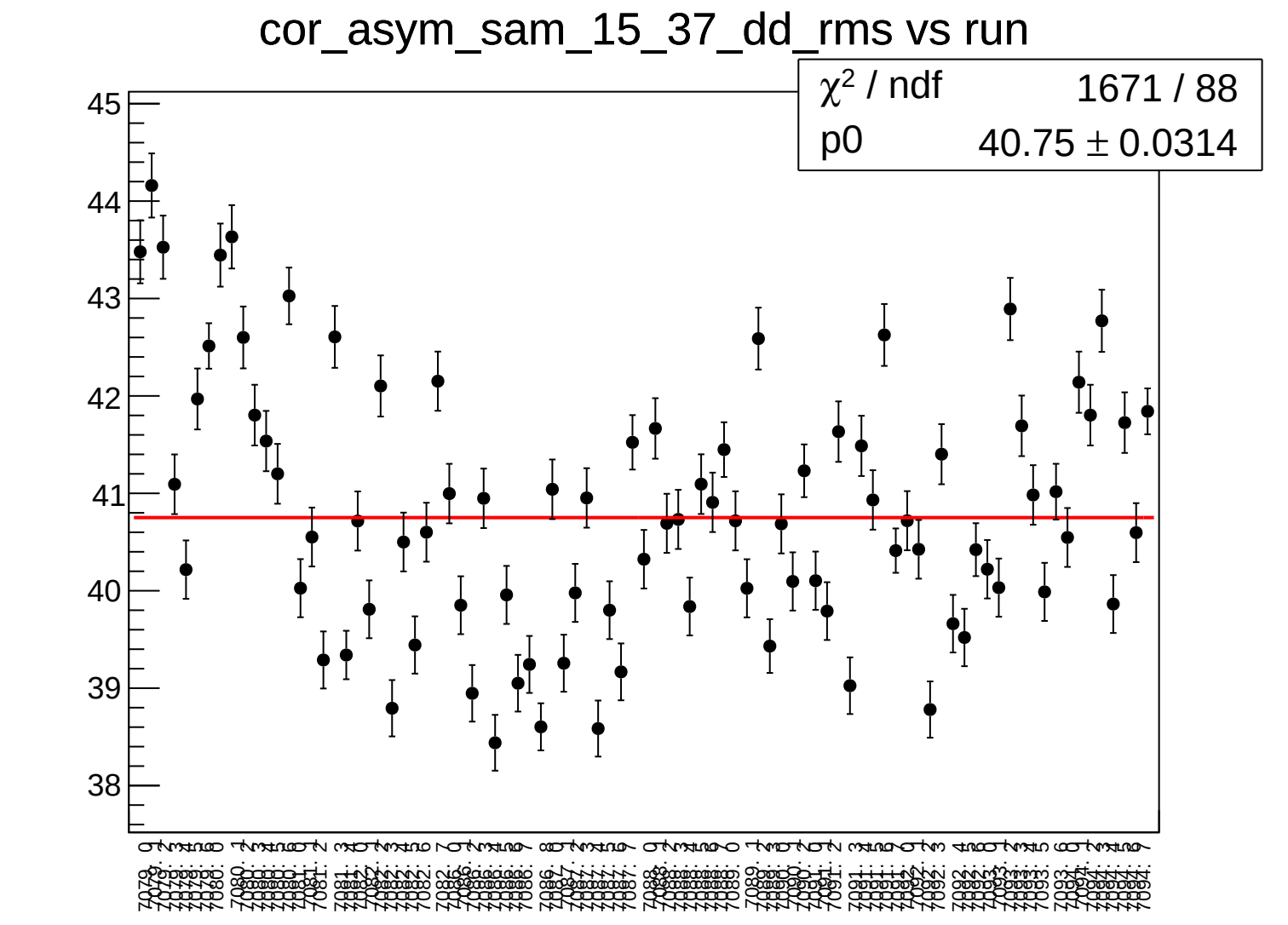

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1671 / 88
p0 40.75 ± 0.0314
45
44
43
42
41
40
39
38

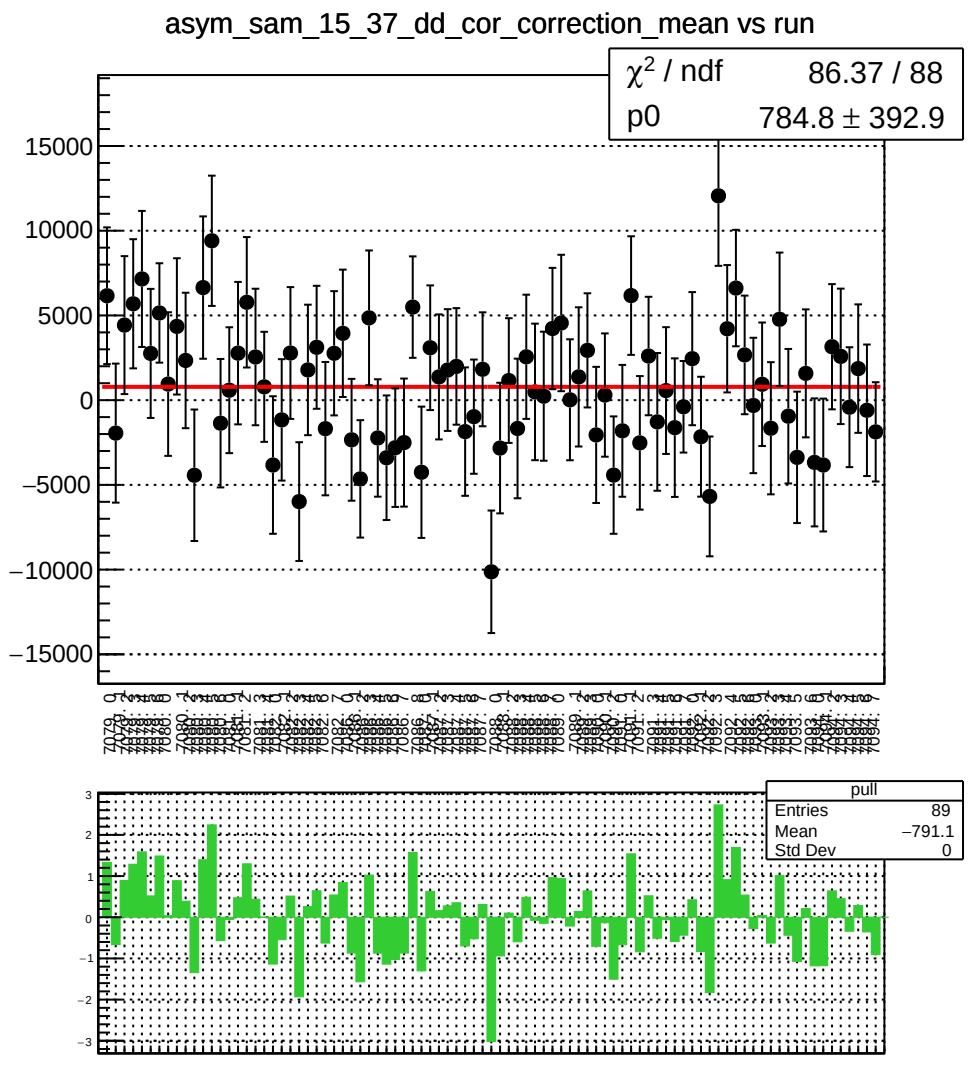

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 86.37 / 88
p0 784.8 ± 392.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −791
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.005313
Std Dev 0.9851
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

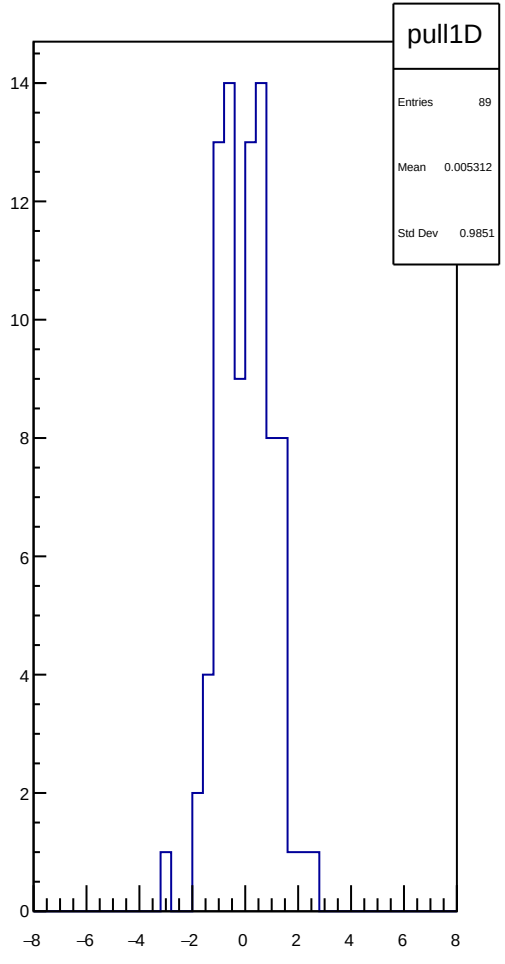

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 5150 / 88
p0 360.2 ± 0.2778
400
380
360
340
320

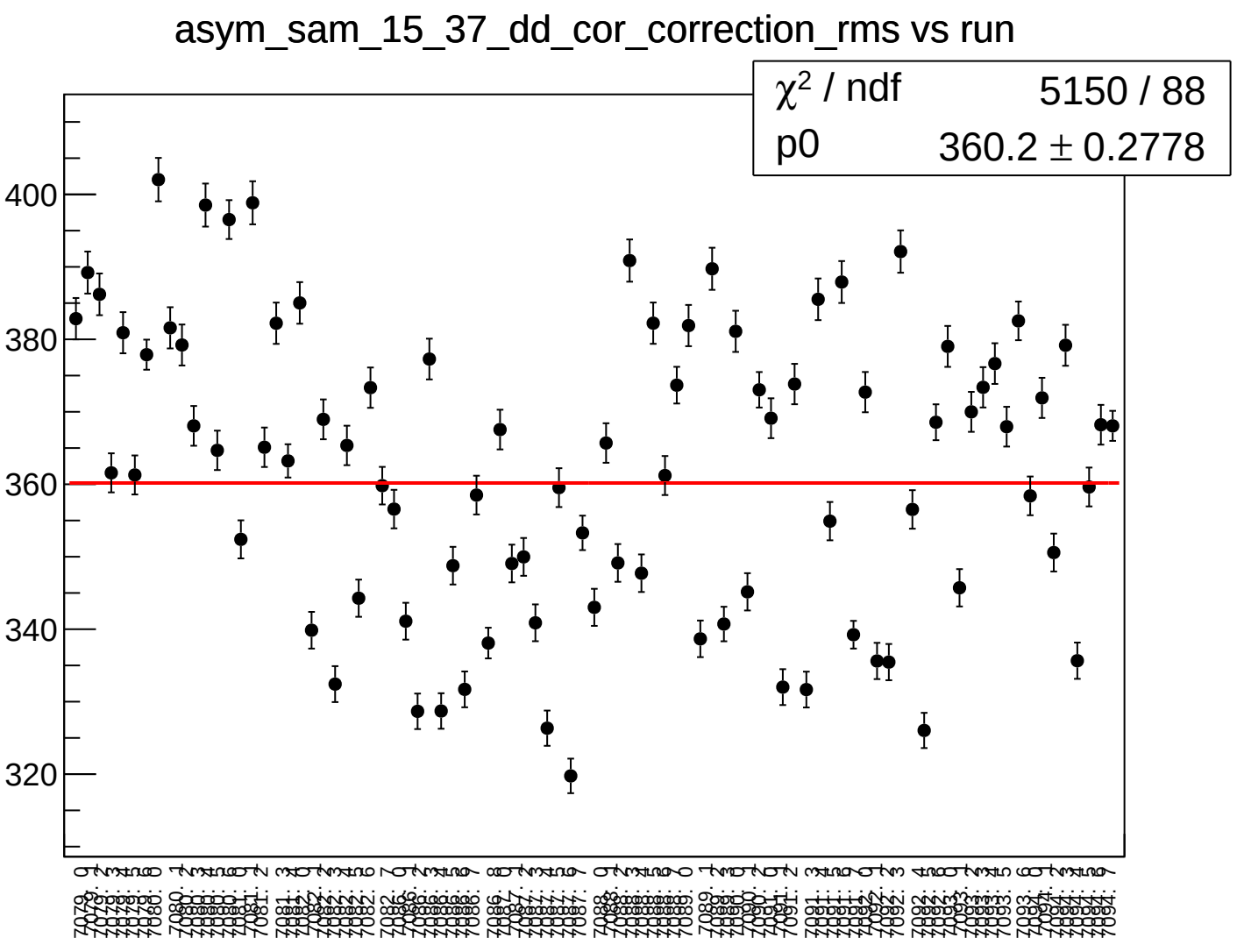

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 99.89 / 88
p0 −83.49 ± 44.4
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 89
Mean 268.8
Std Dev 0
2
1
0
−1
−2
−3
−4

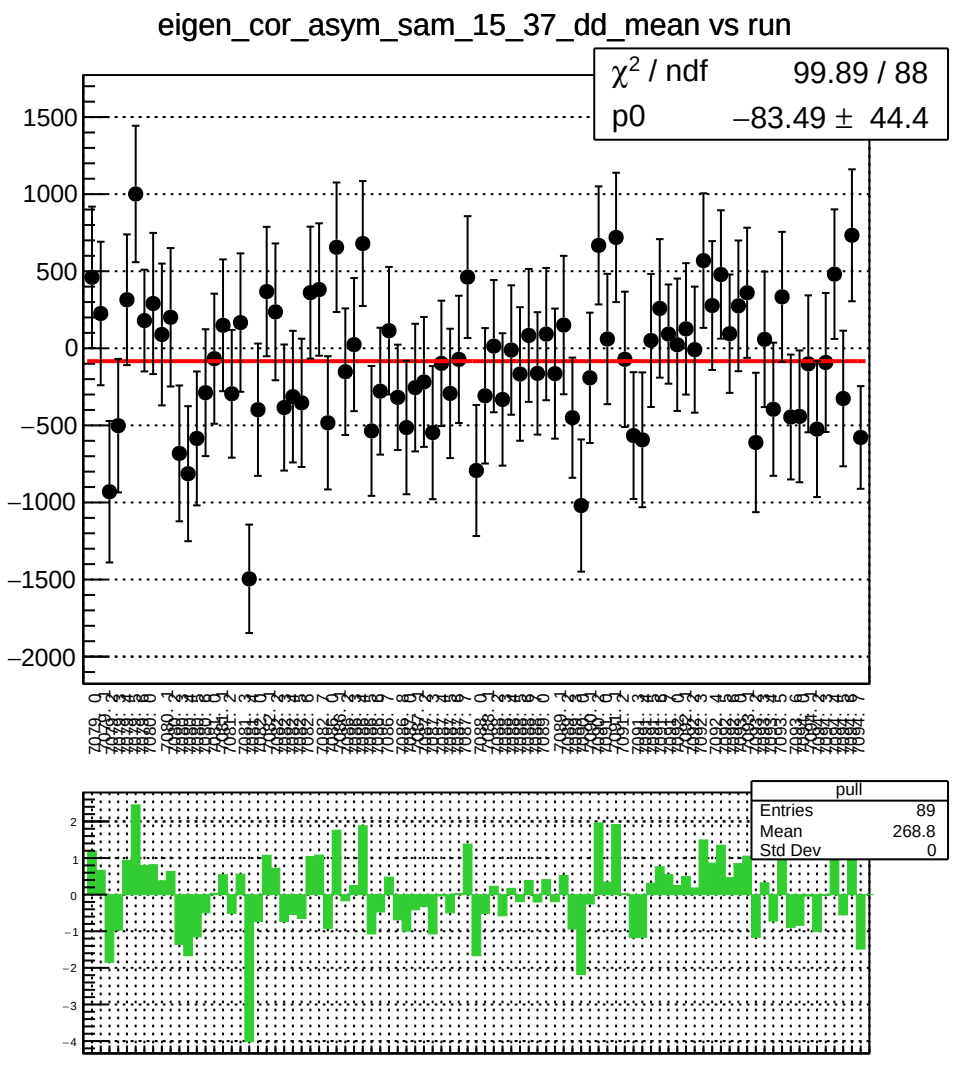

pull1D
Entries 89
Mean 0.008298
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

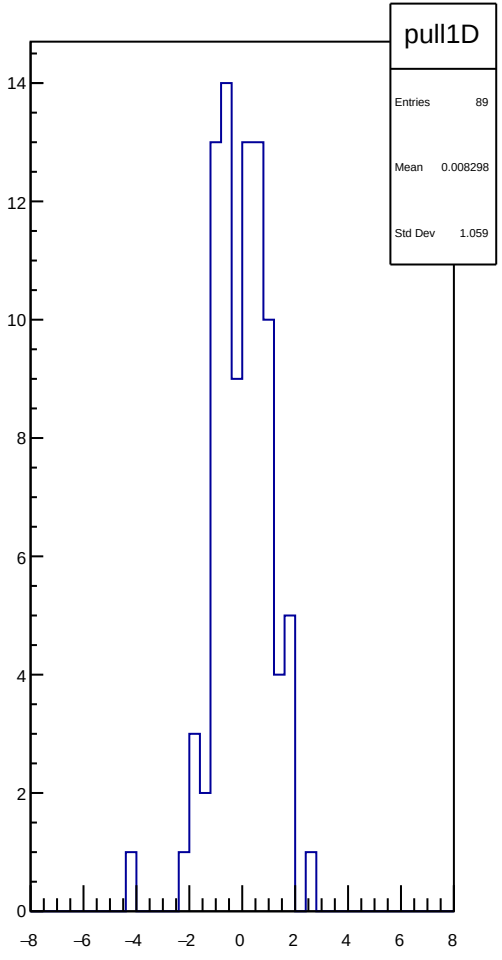

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1671 / 88
p0 40.75 ± 0.0314
45
44
43
42
41
40
39
38

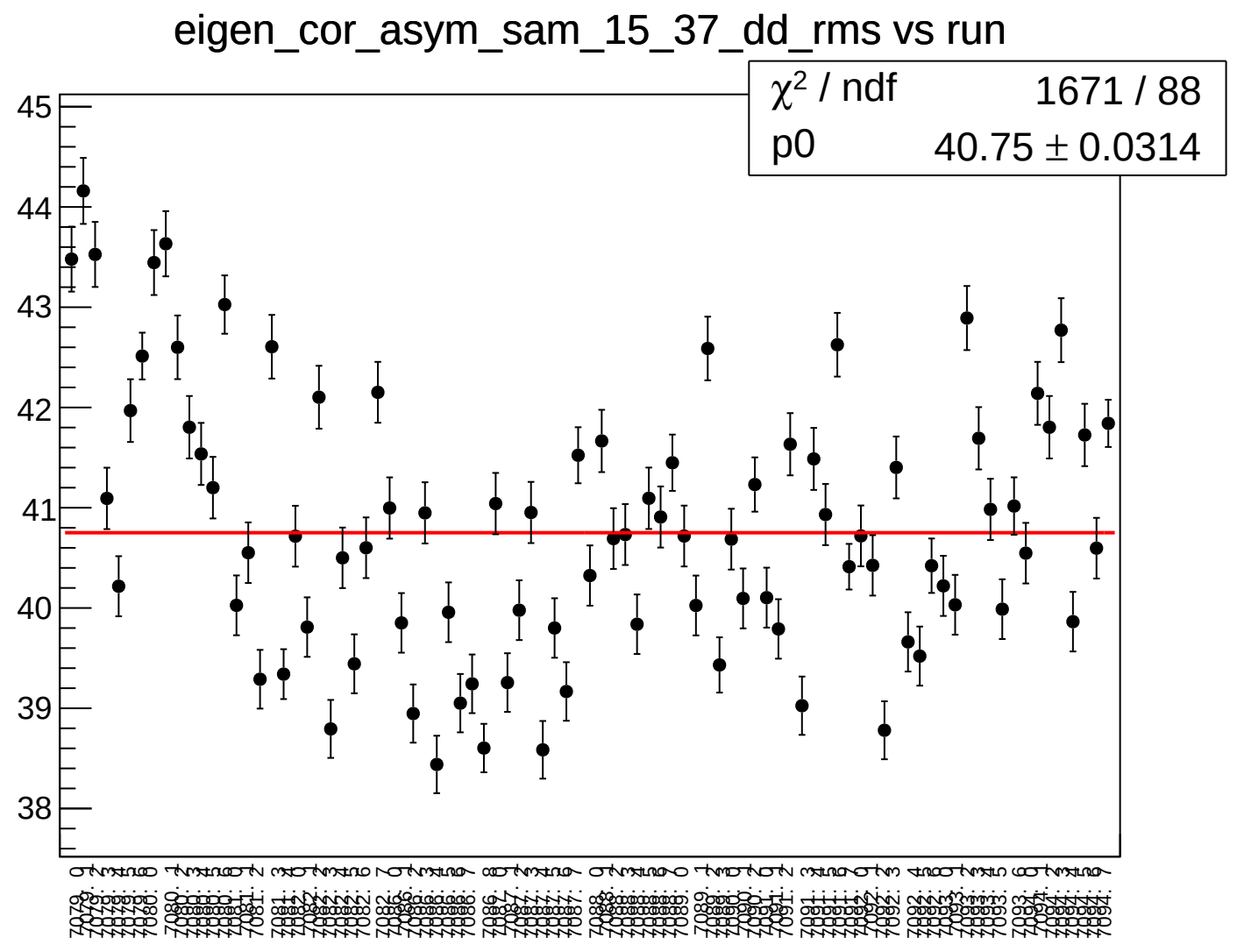

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 86.37 / 88
p0 784.8 ± 392.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −791.1
Std Dev 0
3
2
1
0
−1
−2
−3

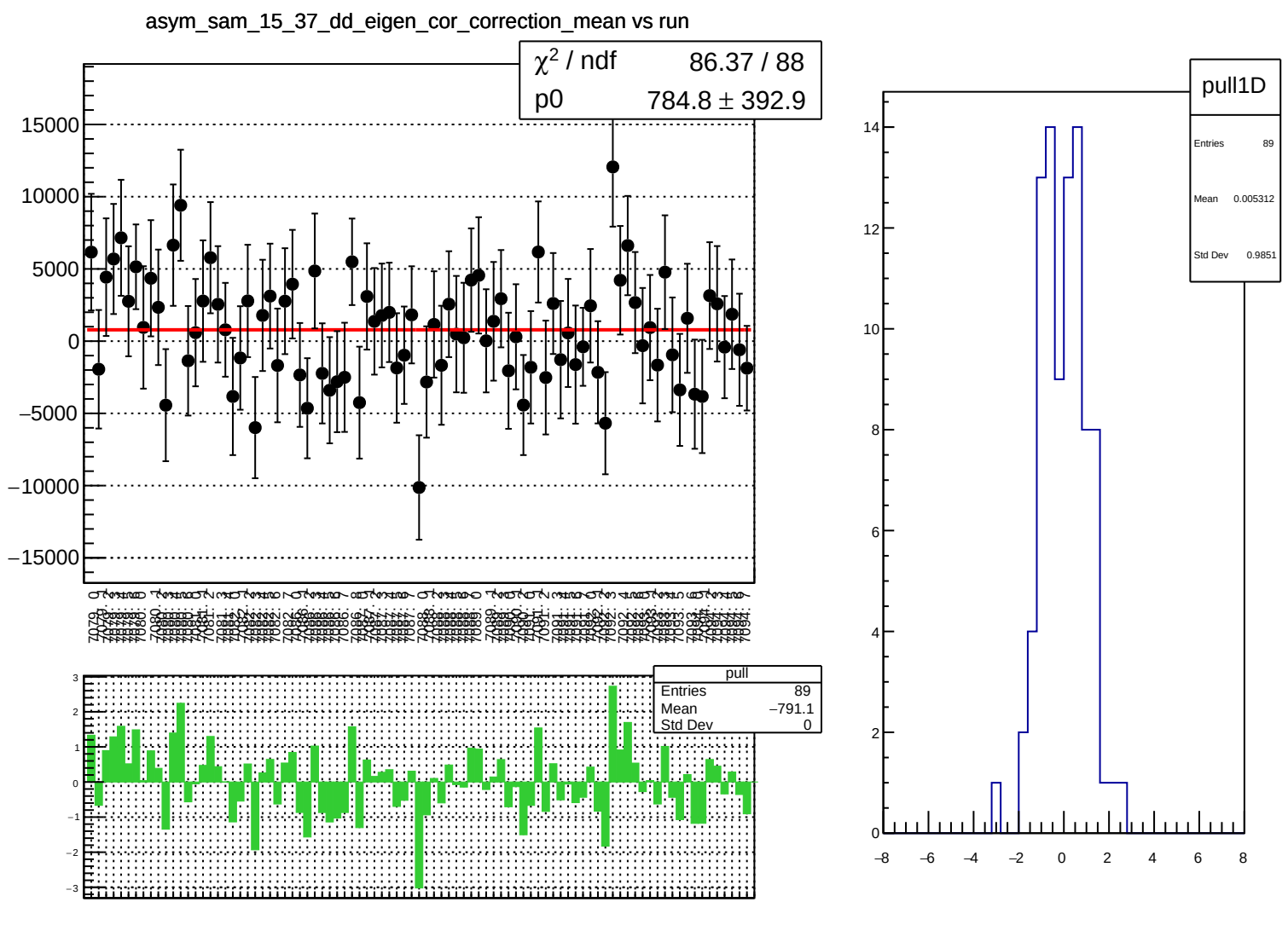

pull1D
Entries 89
Mean 0.005312
Std Dev 0.9851
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

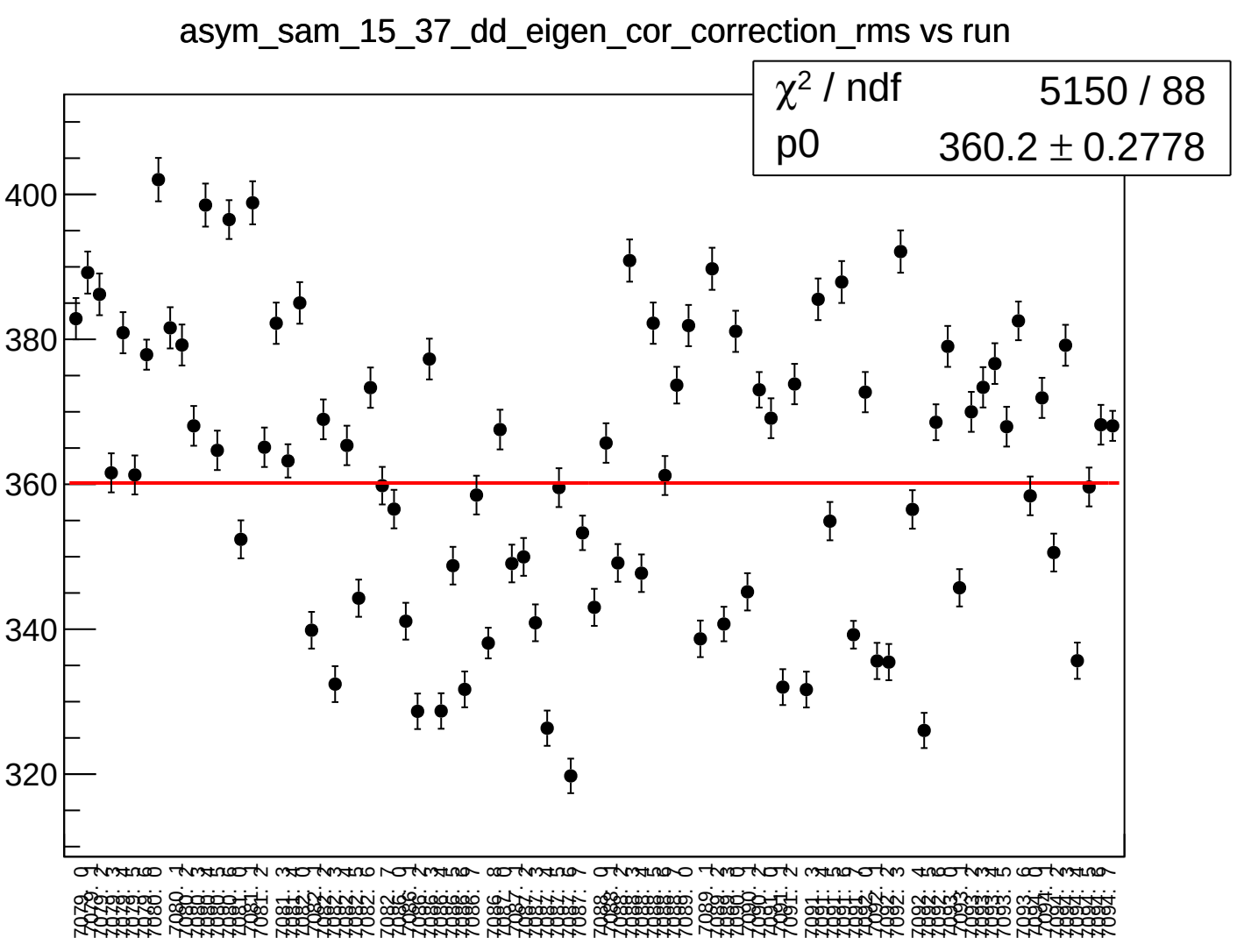

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 5150 / 88
p0 360.2 ± 0.2778
400
380
360
340
320

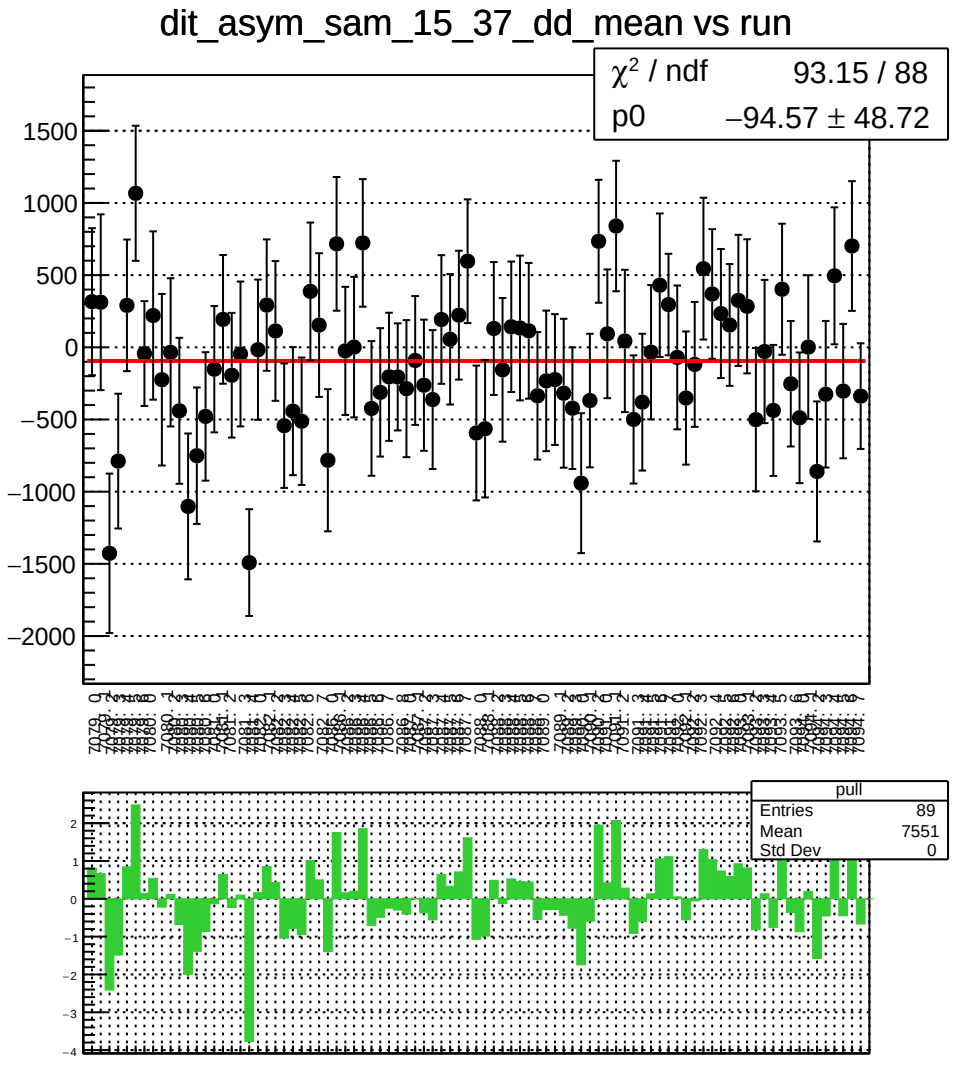

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 99.89 / 88
p0 −83.49 ± 44.4
pull
Entries 89
Mean 268.8
Std Dev 0

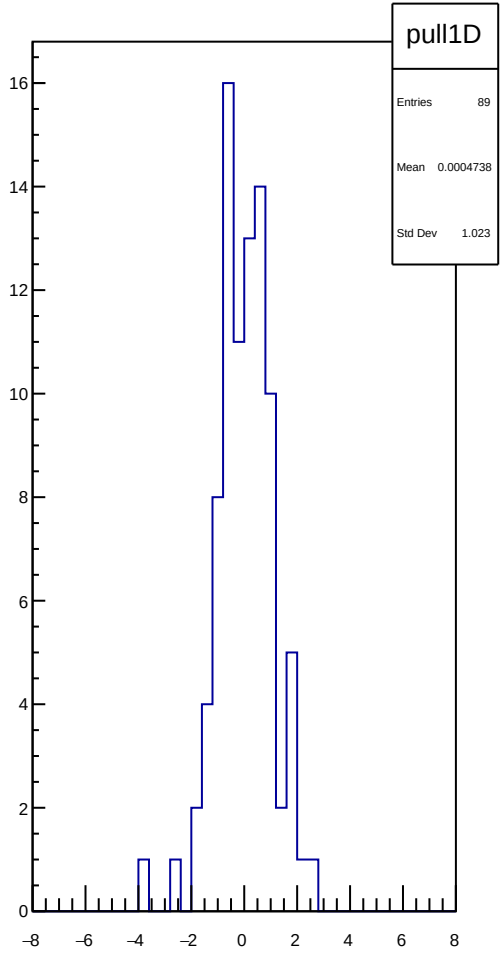

pull1D
Entries 89
Mean 0.008298
Std Dev 1.059

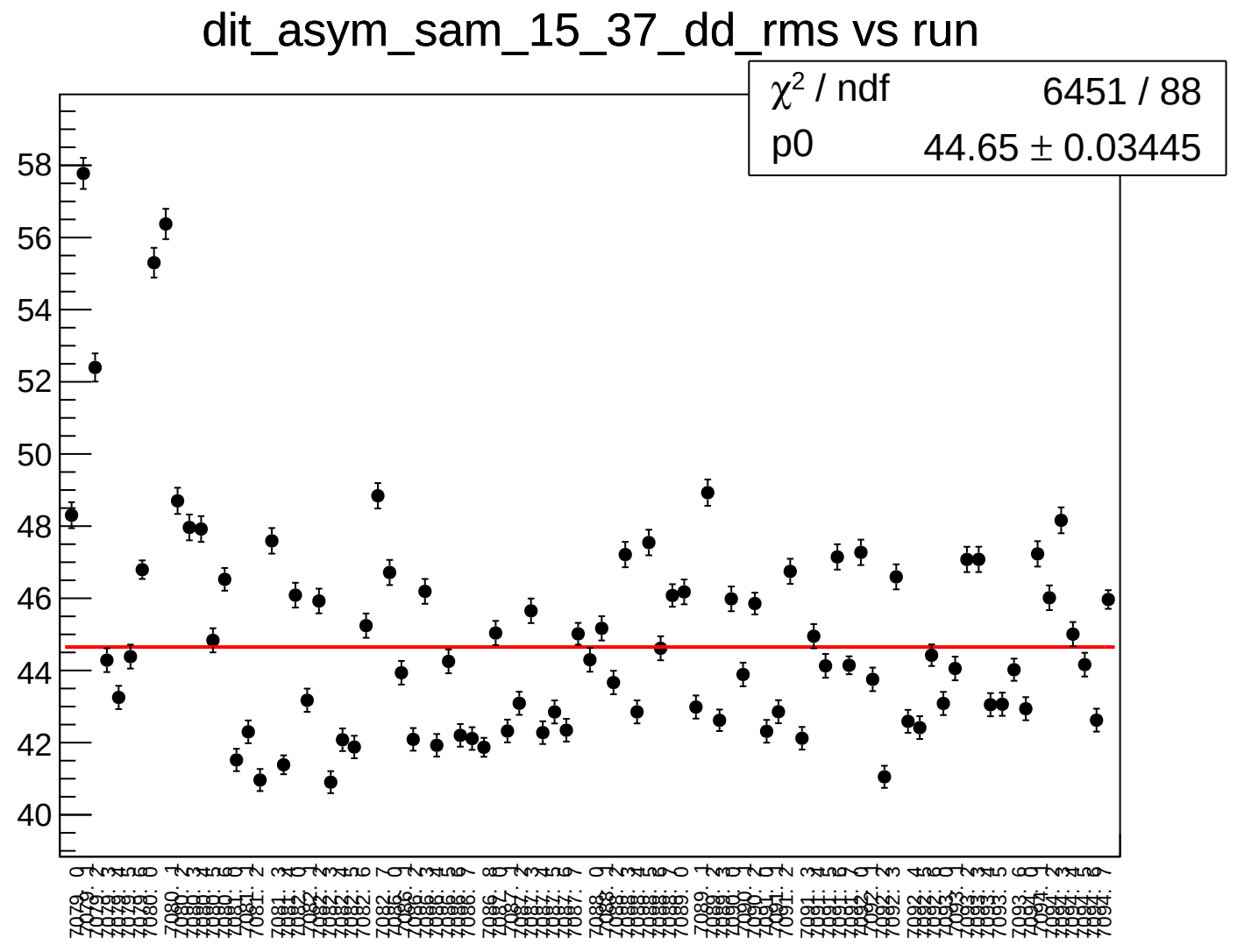

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1671 / 88
p0 40.75 ± 0.0314
45
44
43
42
41
40
39
38

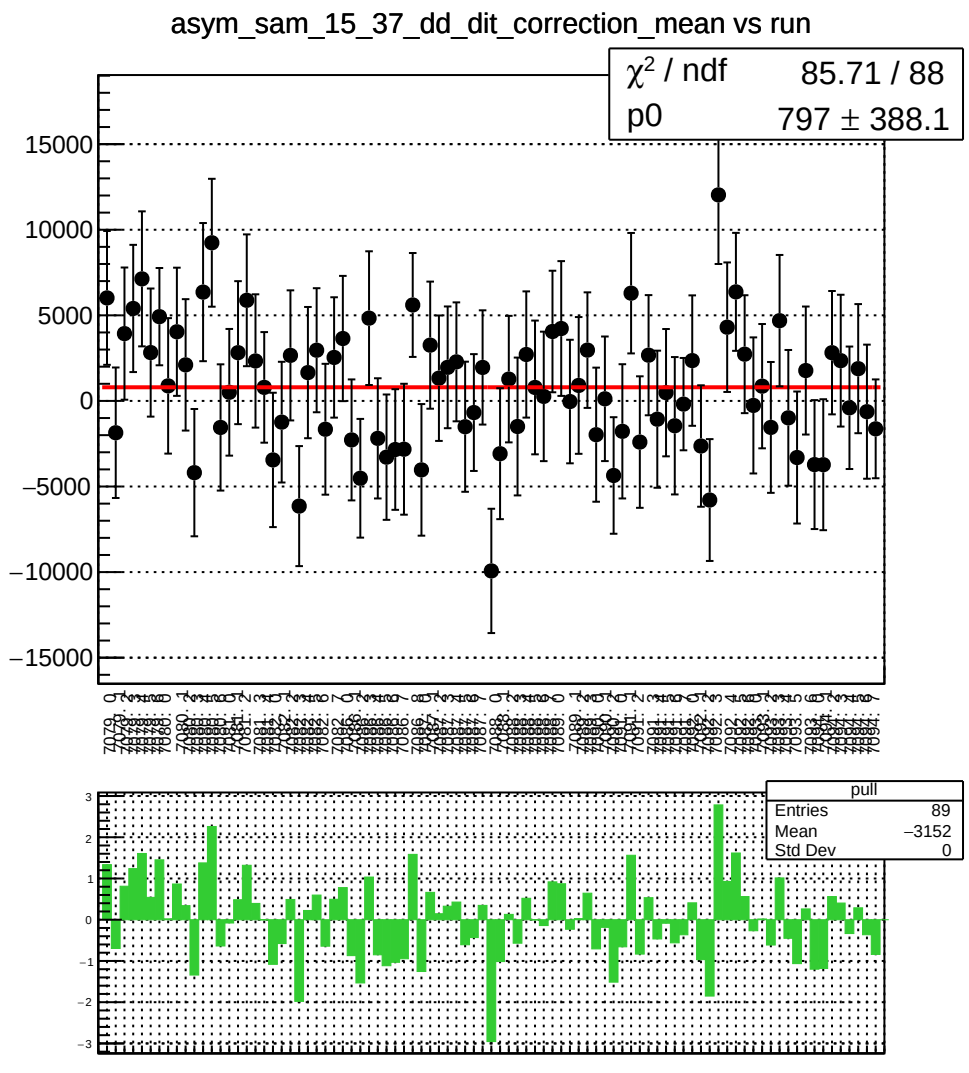

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.37 / 88
p0 784.8 ± 392.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −791.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.005312
Std Dev 0.9851
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

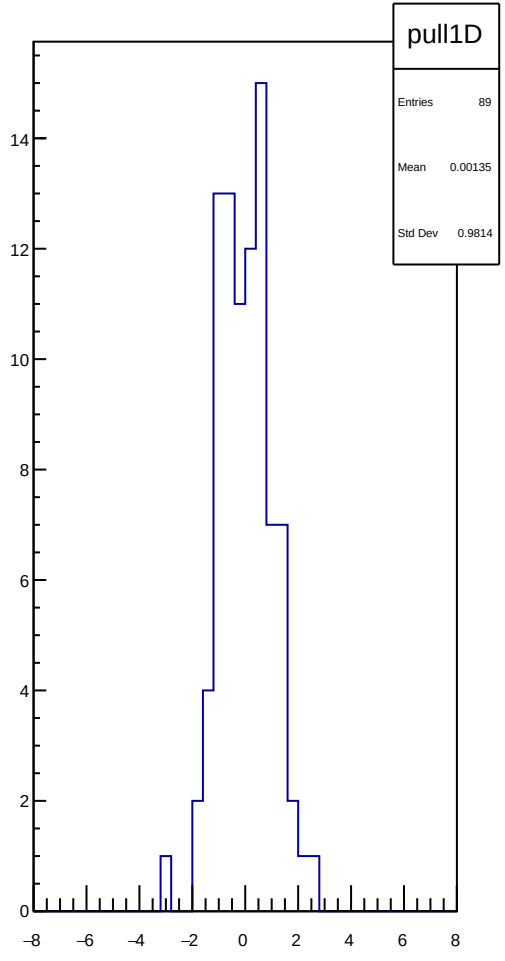

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5150 / 88
p0 360.2 ± 0.2778
400
380
360
340
320

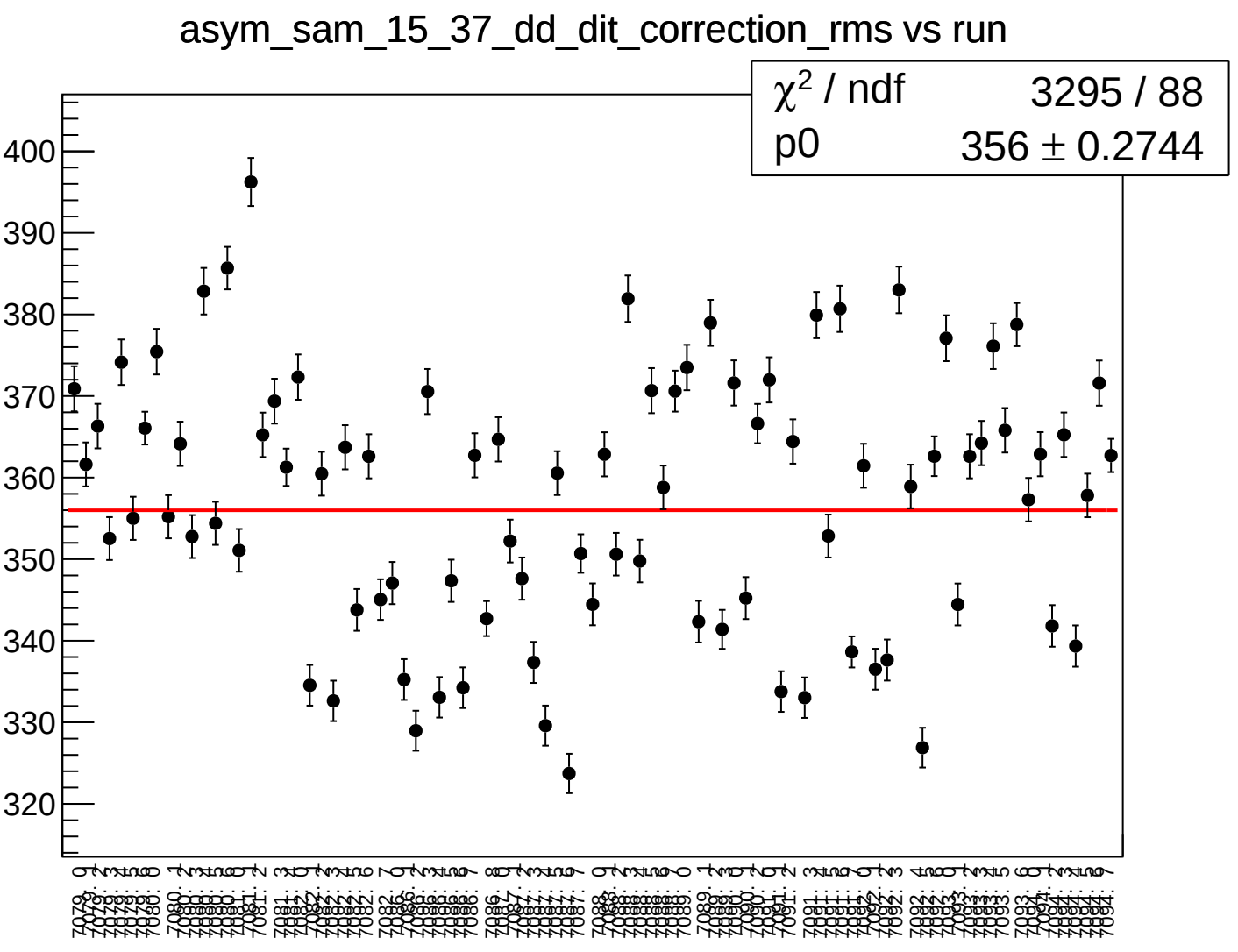

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 93.15 / 88
p0 −94.57 ± 48.72
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 89
Mean 7551
Std Dev 0
2
1
0
−1
−2
−3
−4

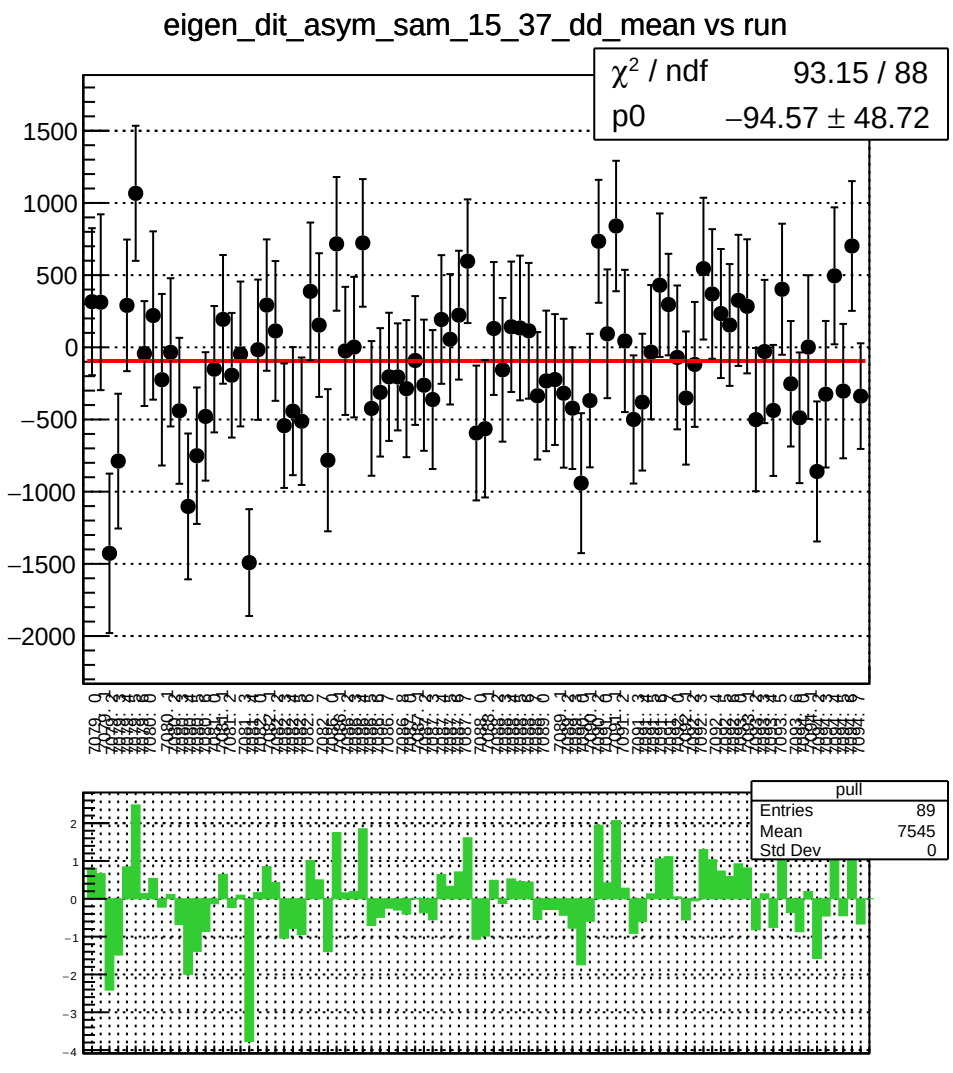

pull1D
Entries 89
Mean 0.0004738
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

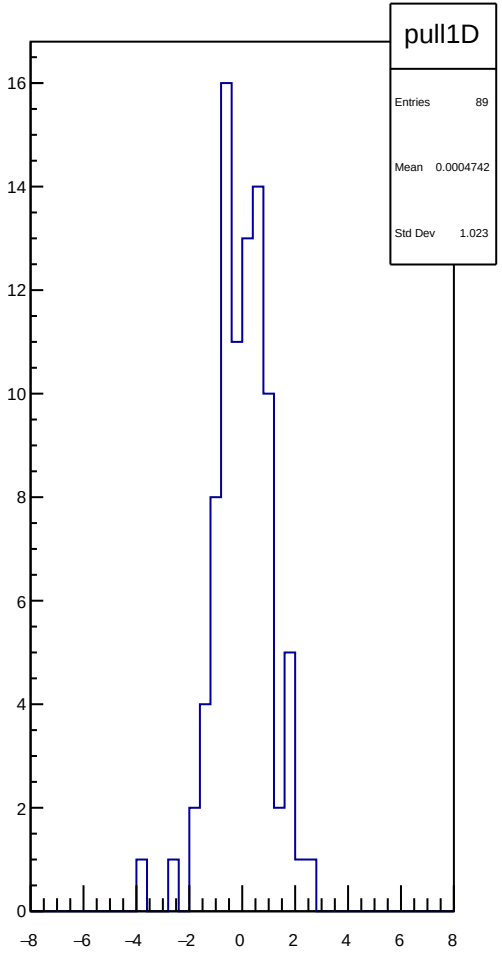

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 6451 / 88
p0 44.65 ± 0.03445
58
56
54
52
50
48
46
44
42
40

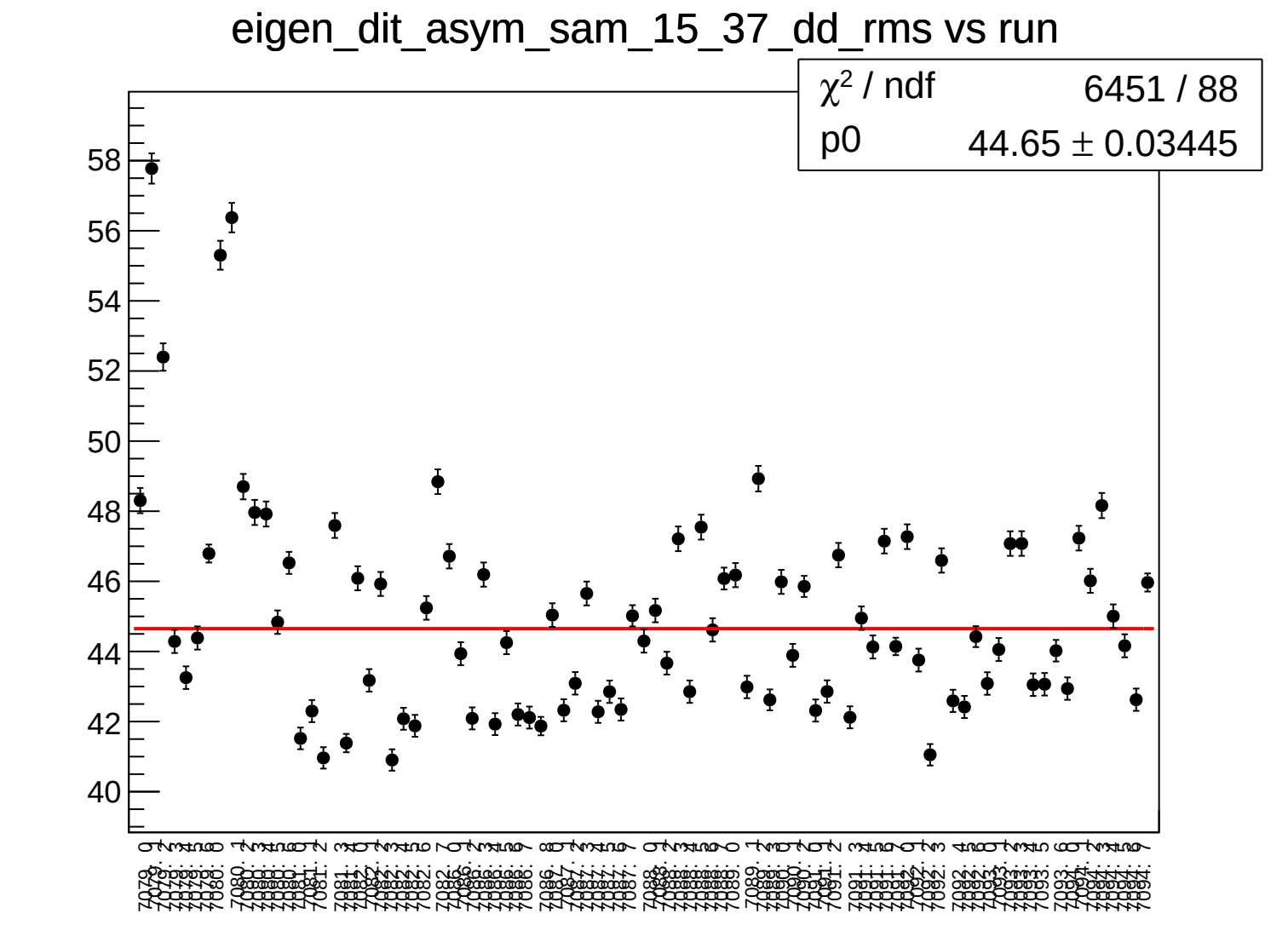

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 85.71 / 88
p0 797 ± 388.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −3152
Std Dev 0
3
2
1
0
−1
−2
−3

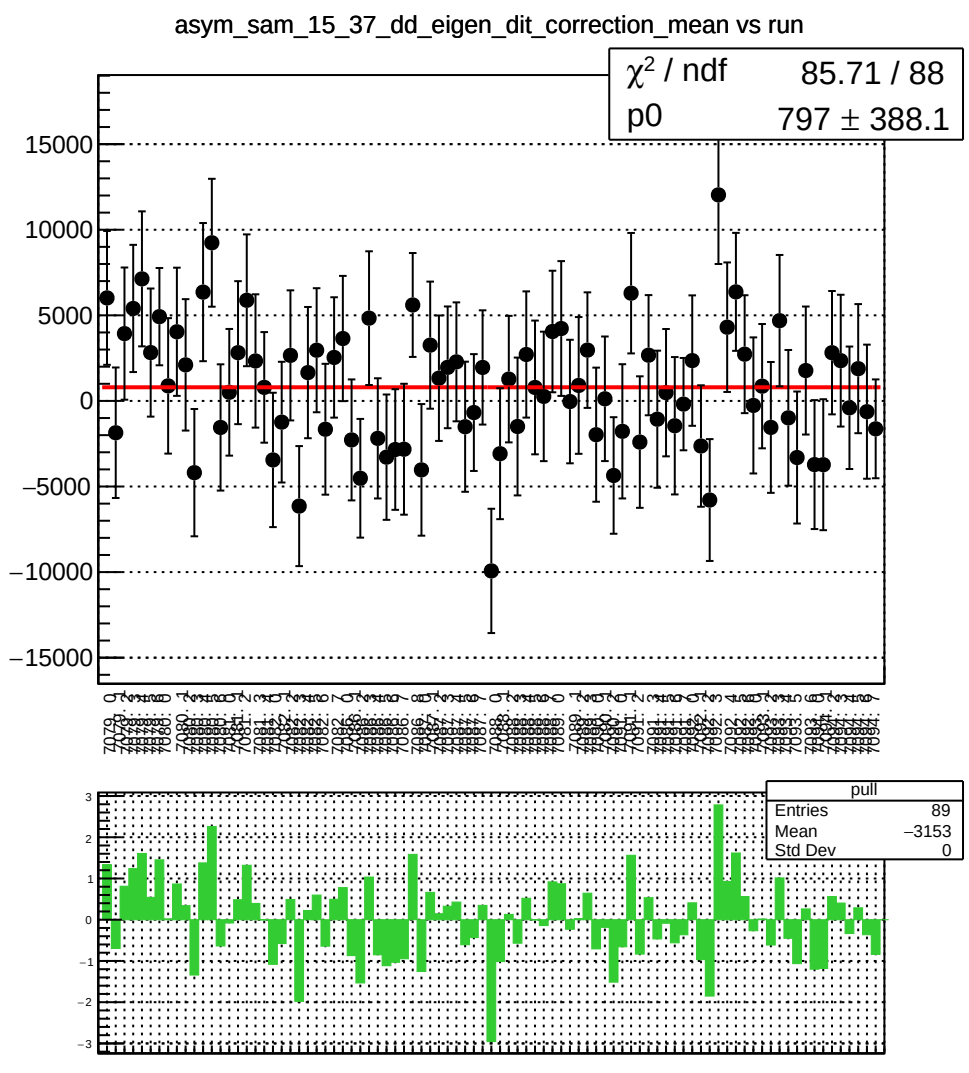

pull1D
Entries 89
Mean 0.00135
Std Dev 0.9814
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

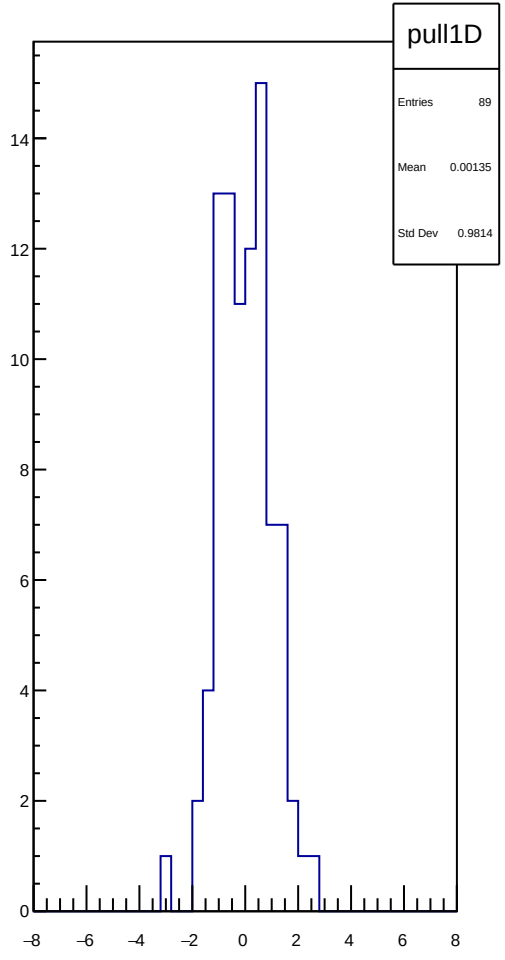

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 3295 / 88
p0 356 ± 0.2744
400
390
380
370
360
350
340
330
320

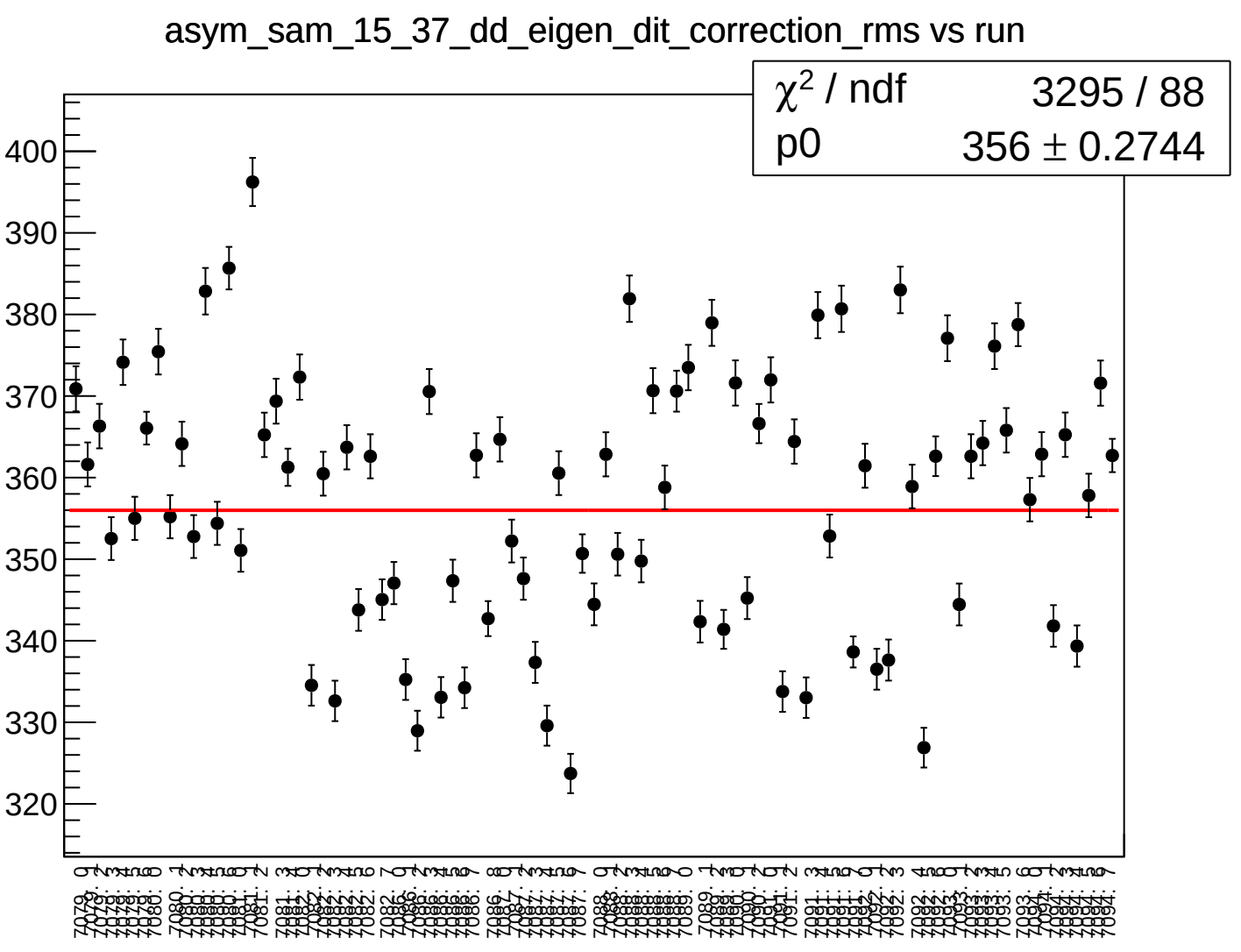

eigen_dit_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 93.15 / 88
p0 −94.57 ± 48.72
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 89
Mean 7545
Std Dev 0
2
1
0
−1
−2
−3
−4

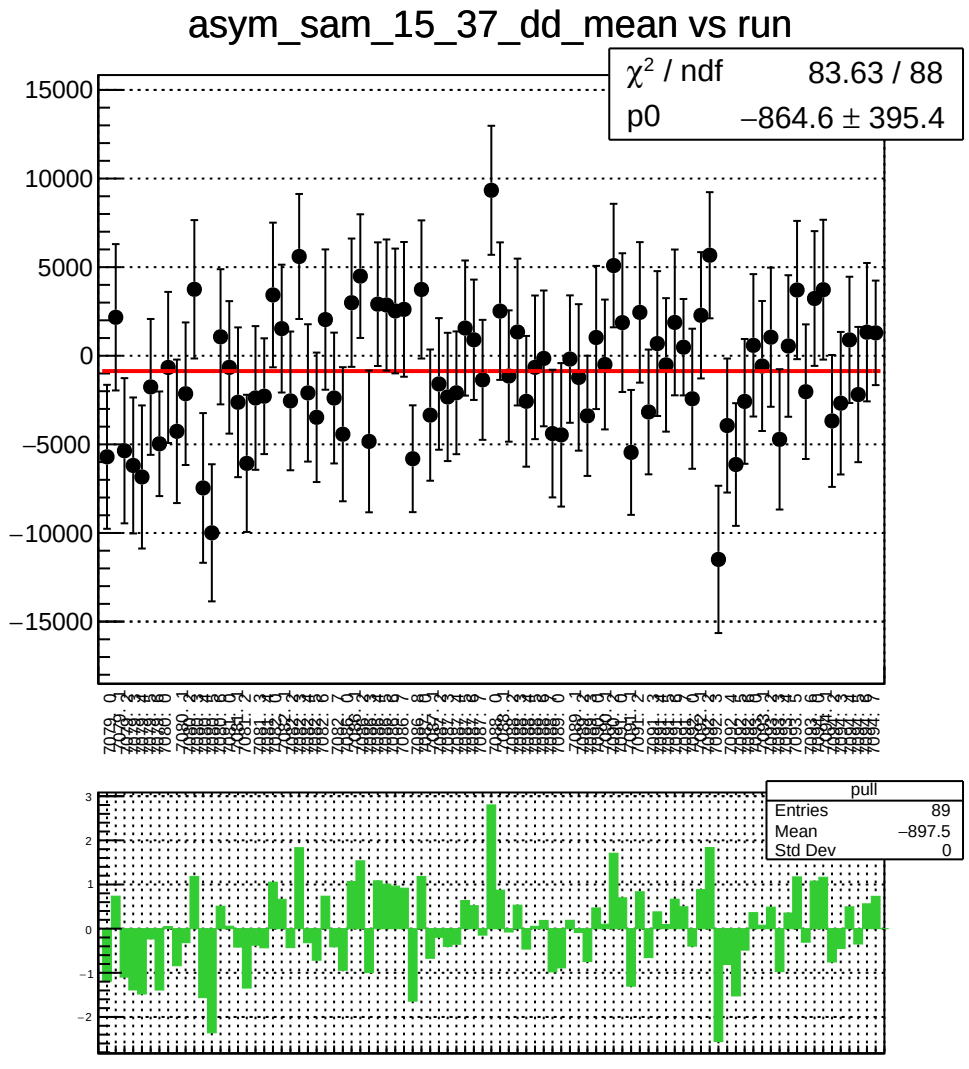

pull1D
Entries 89
Mean 0.0004742
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

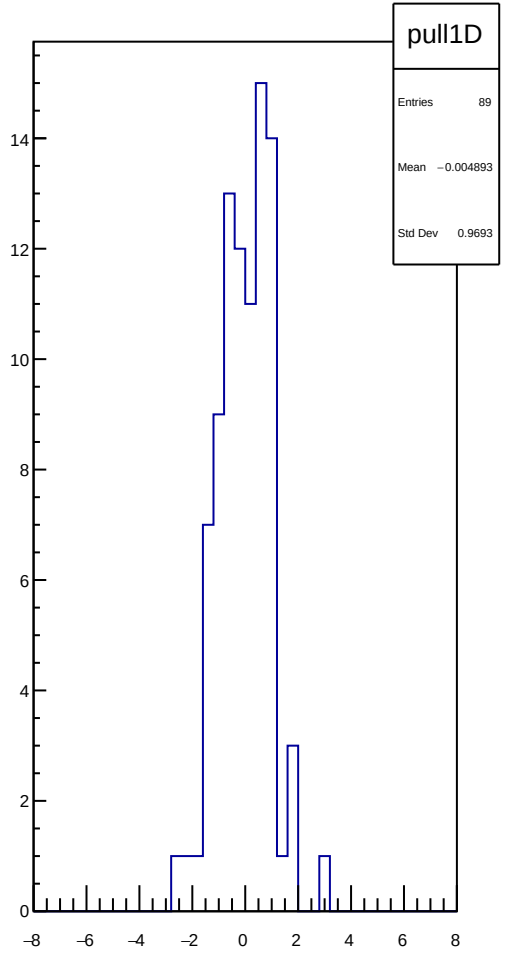

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 6451 / 88
p0 44.65 ± 0.03445
58
56
54
52
50
48
46
44
42
40

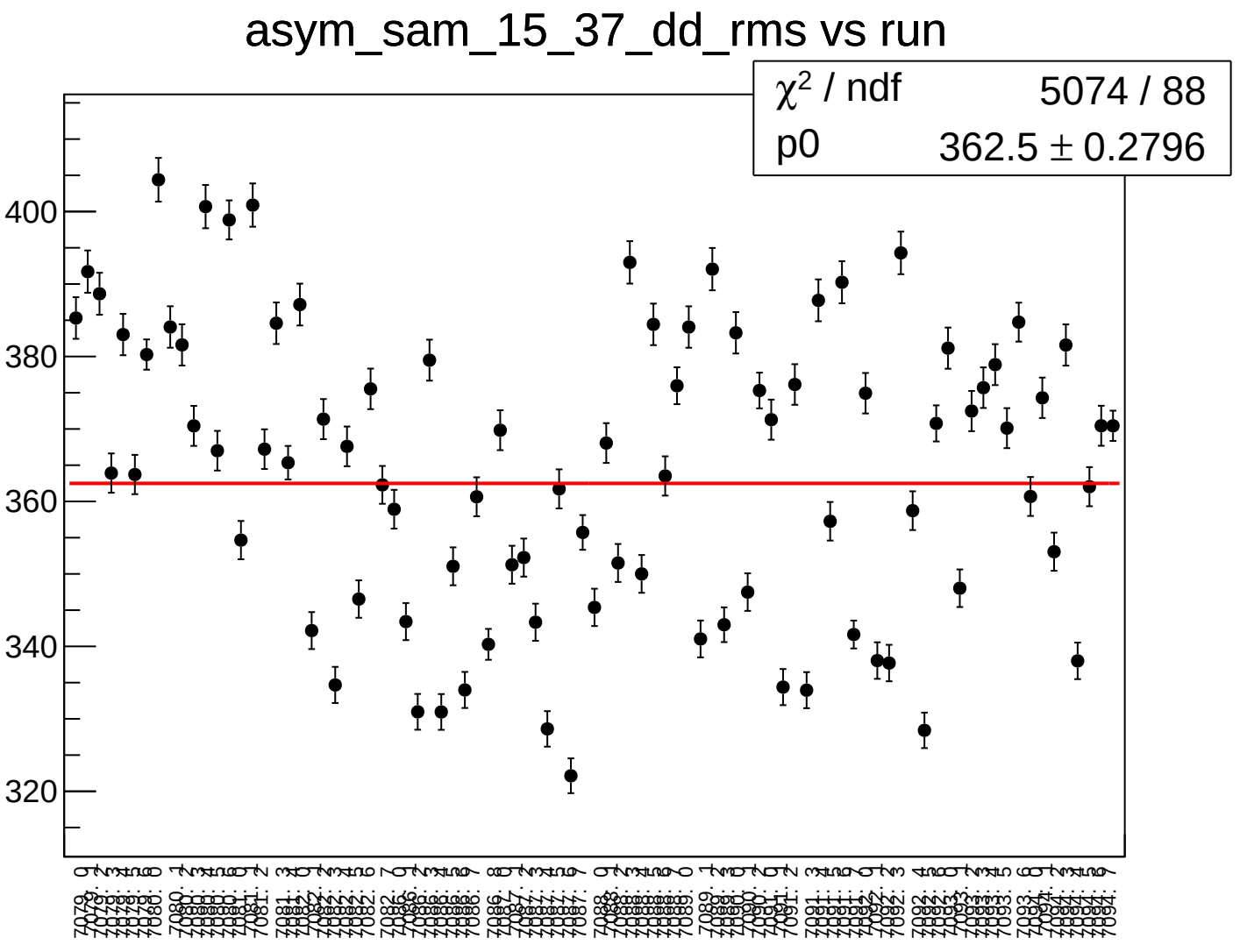

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.71 / 88
p0 797 ± 388.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −3153
Std Dev 0
3
2
1
0
−1
−2
−3

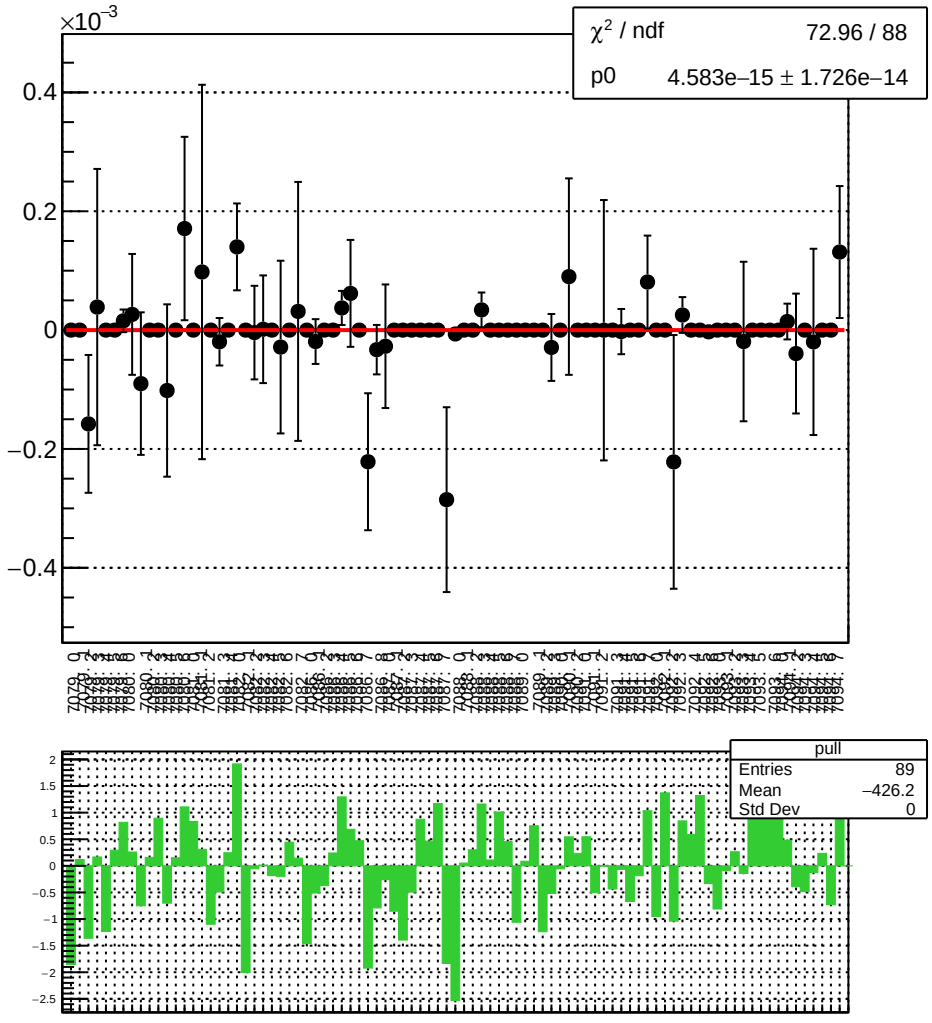

pull1D
Entries 89
Mean 0.00135
Std Dev 0.9814
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

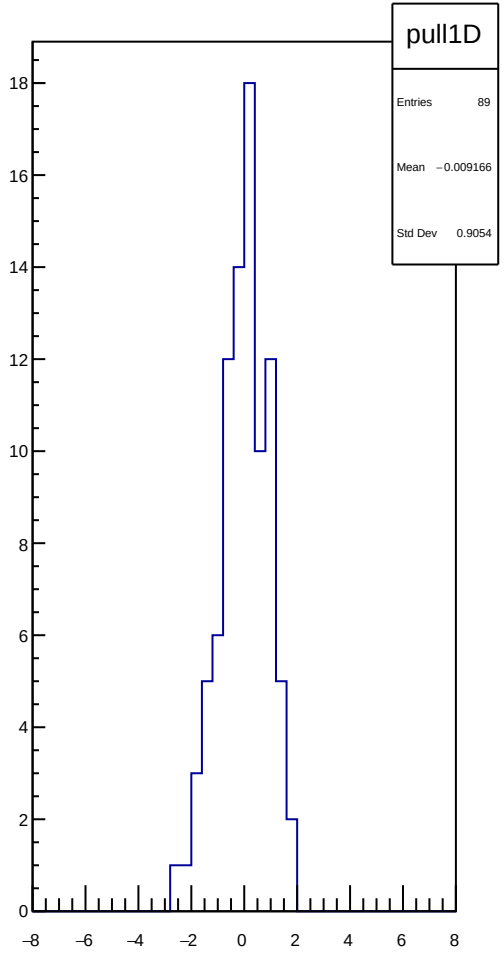

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3295 / 88
p0 356 ± 0.2744
400
390
380
370
360
350
340
330
320

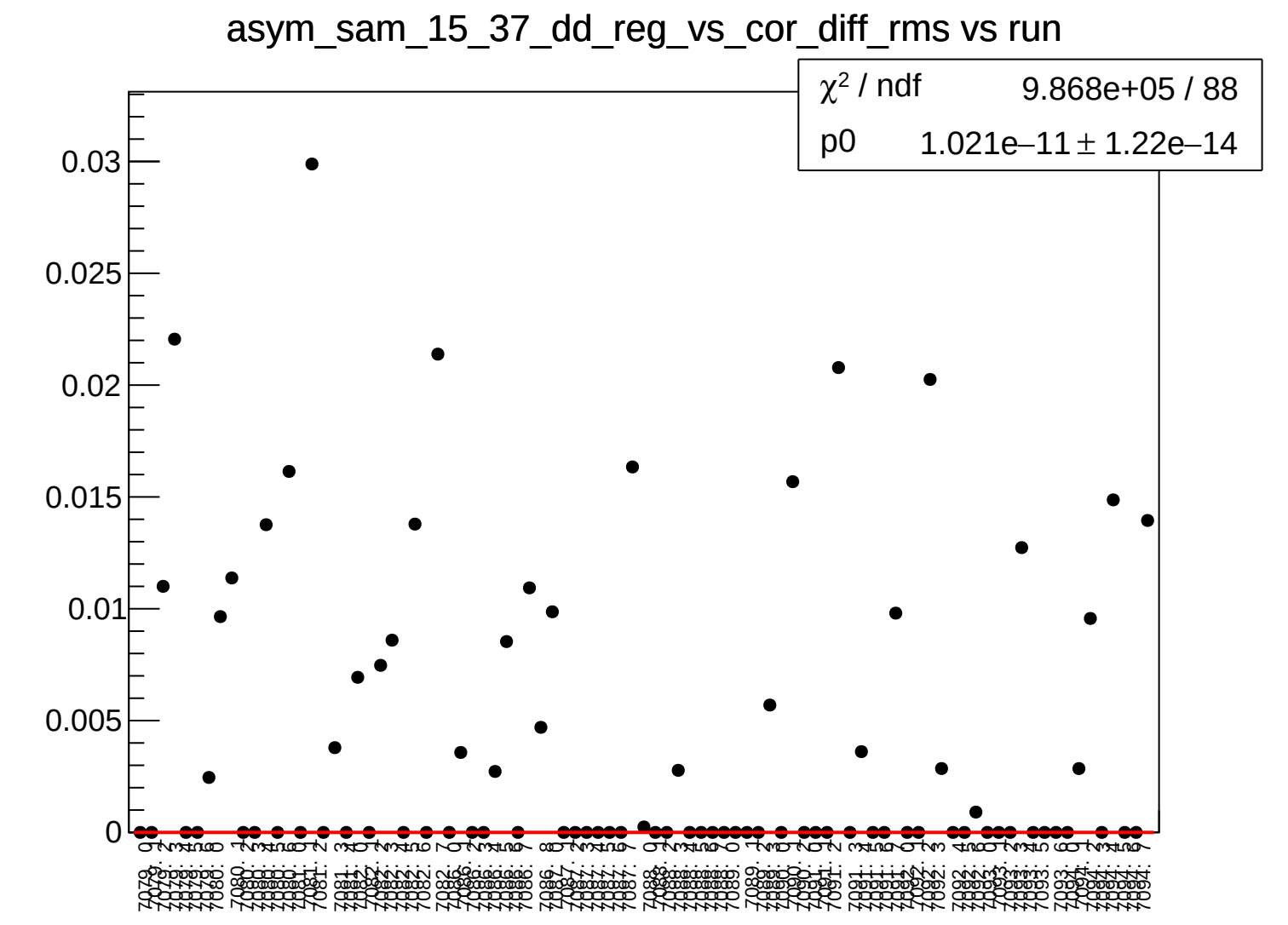

asym_sam_15_37_dd_mean vs run
χ² / ndf 83.63 / 88
p0 −864.6 ± 395.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −897.5
Std Dev 0
3
2
1
0
−1
−2

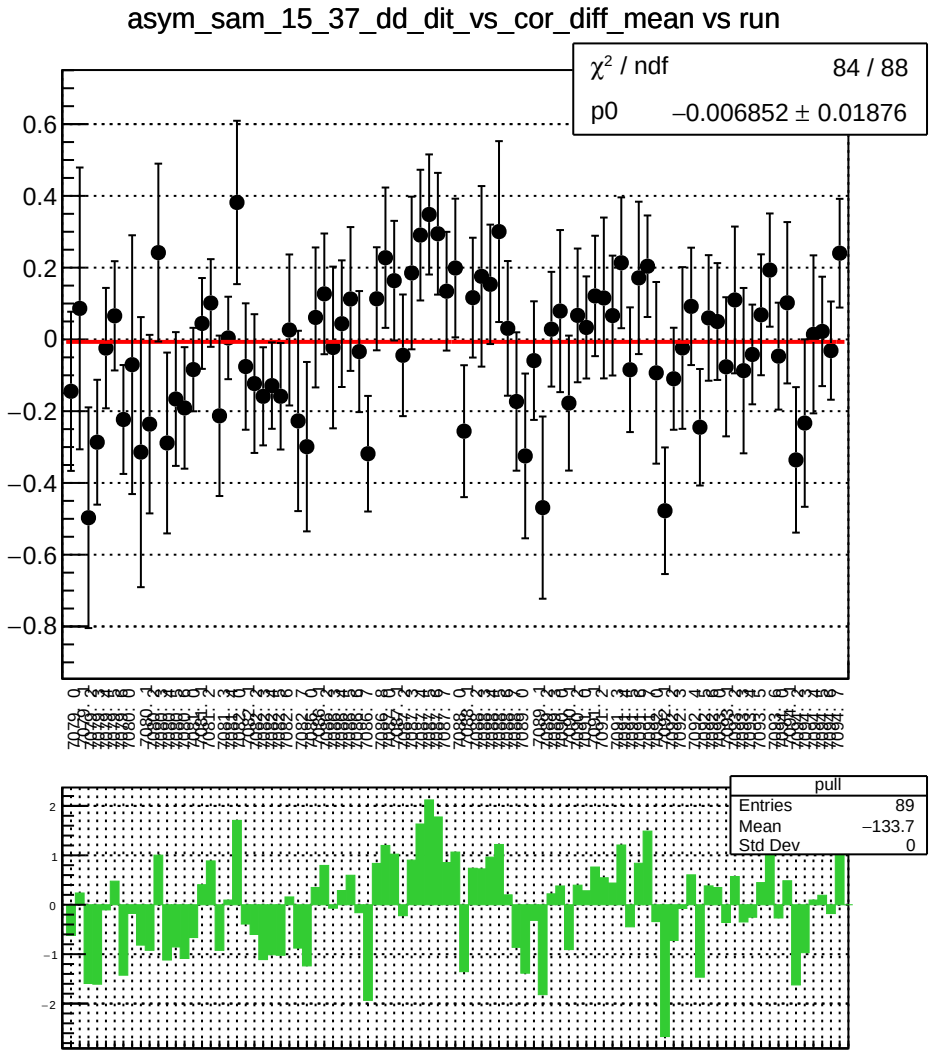

pull1D
Entries 89
Mean −0.004893
Std Dev 0.9693
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

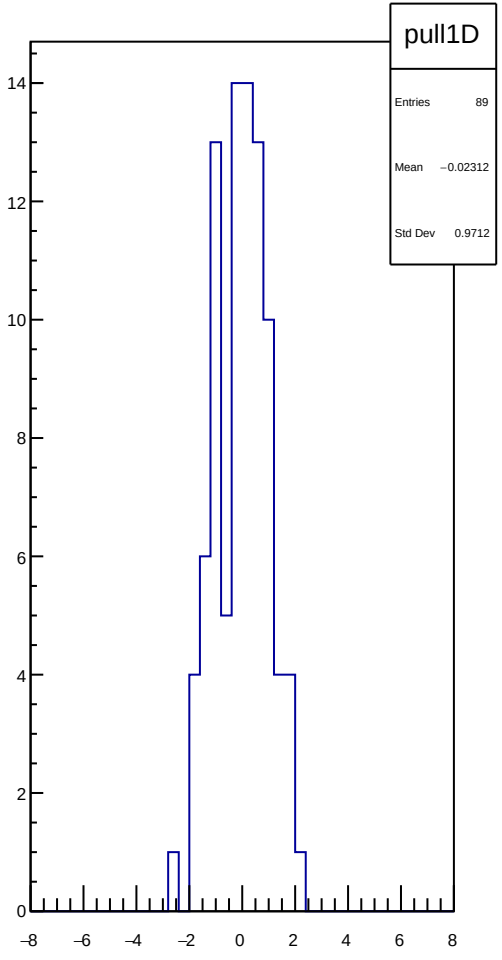

asym_sam_15_37_dd_rms vs run
χ² / ndf 5074 / 88
p0 362.5 ± 0.2796
400
380
360
340
320

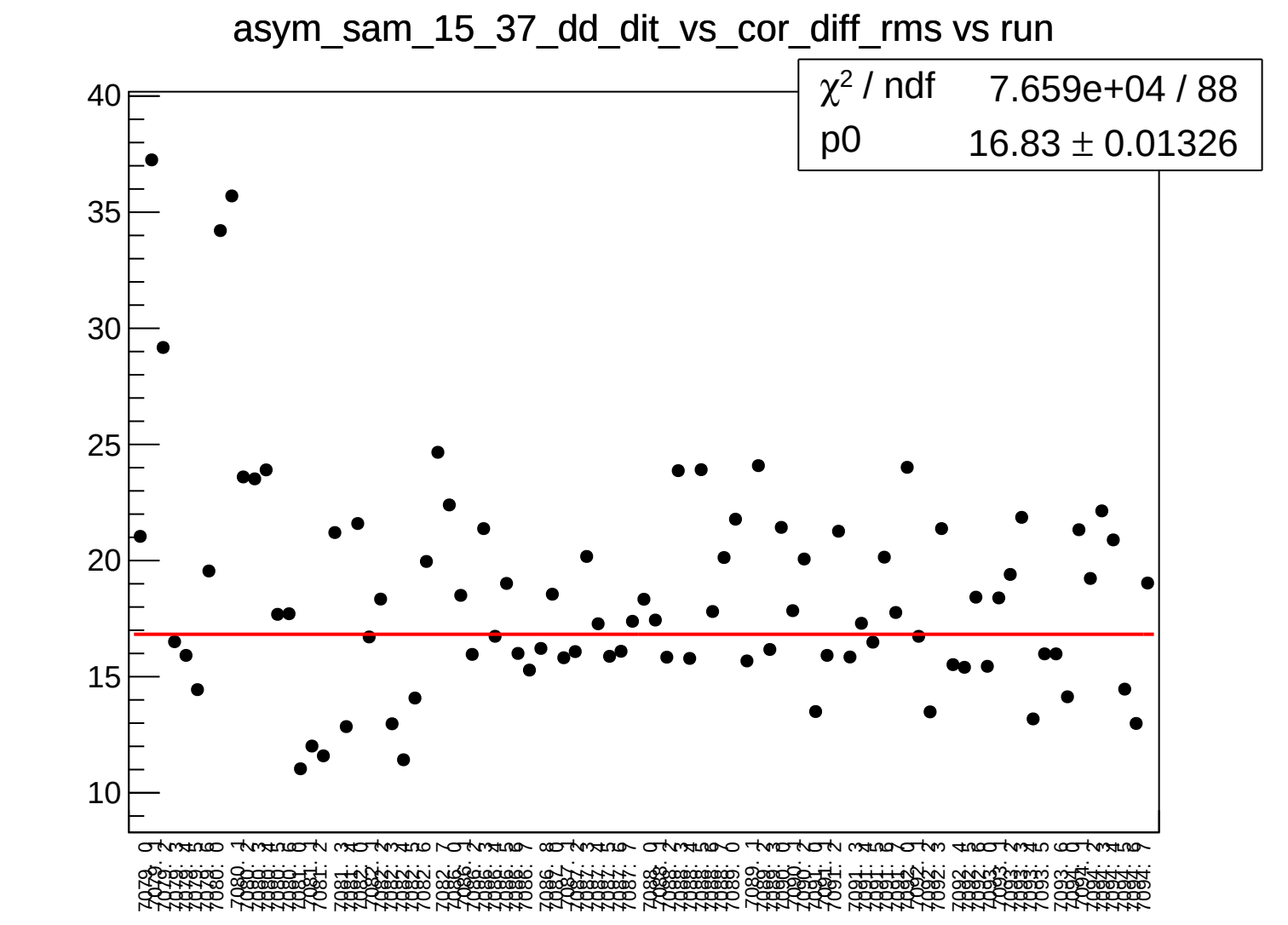

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 72.96 / 88
p0 4.583e−15 ± 1.726e−14
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean −426.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

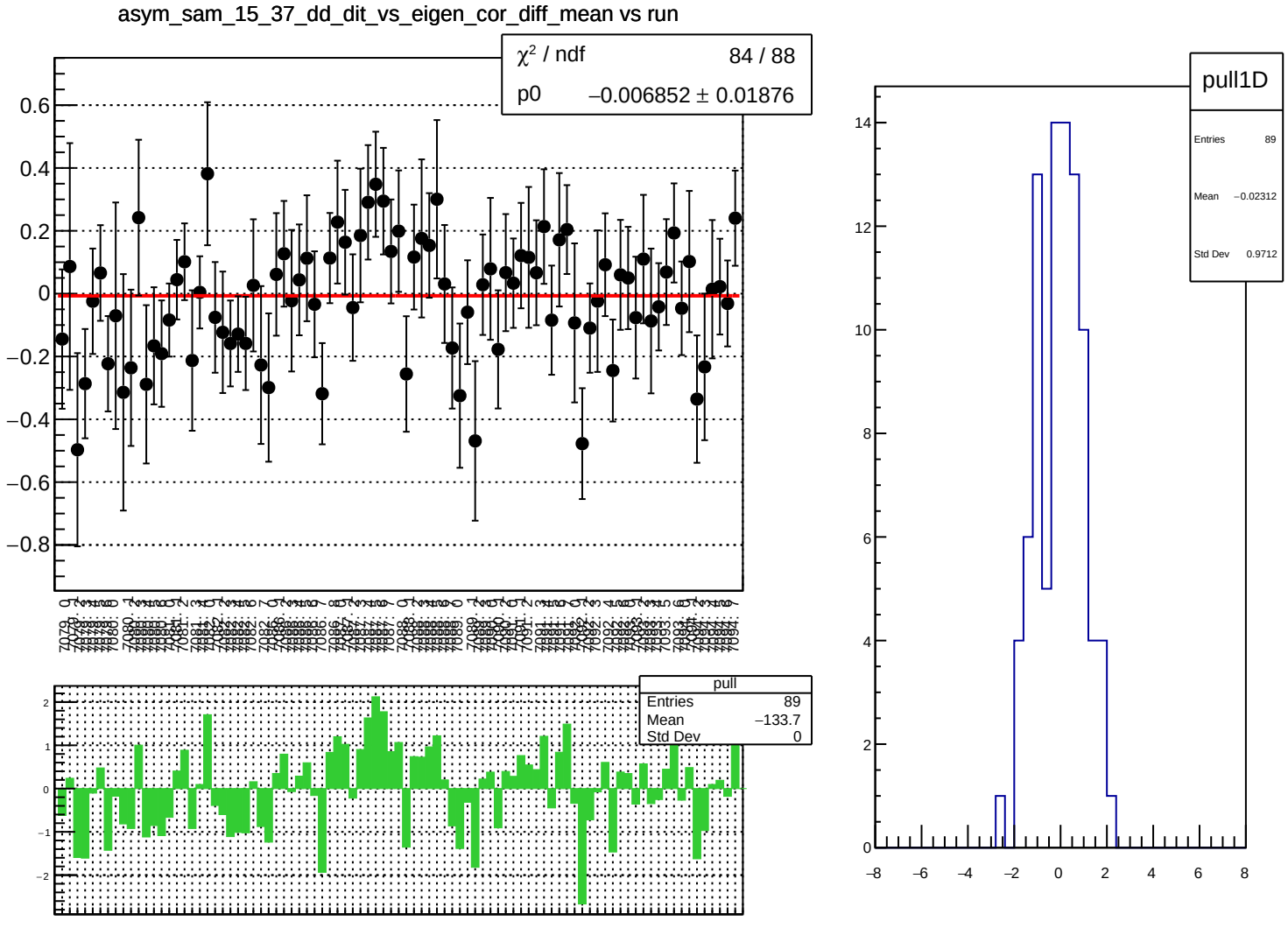

pull1D
Entries 89
Mean −0.009166
Std Dev 0.9054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

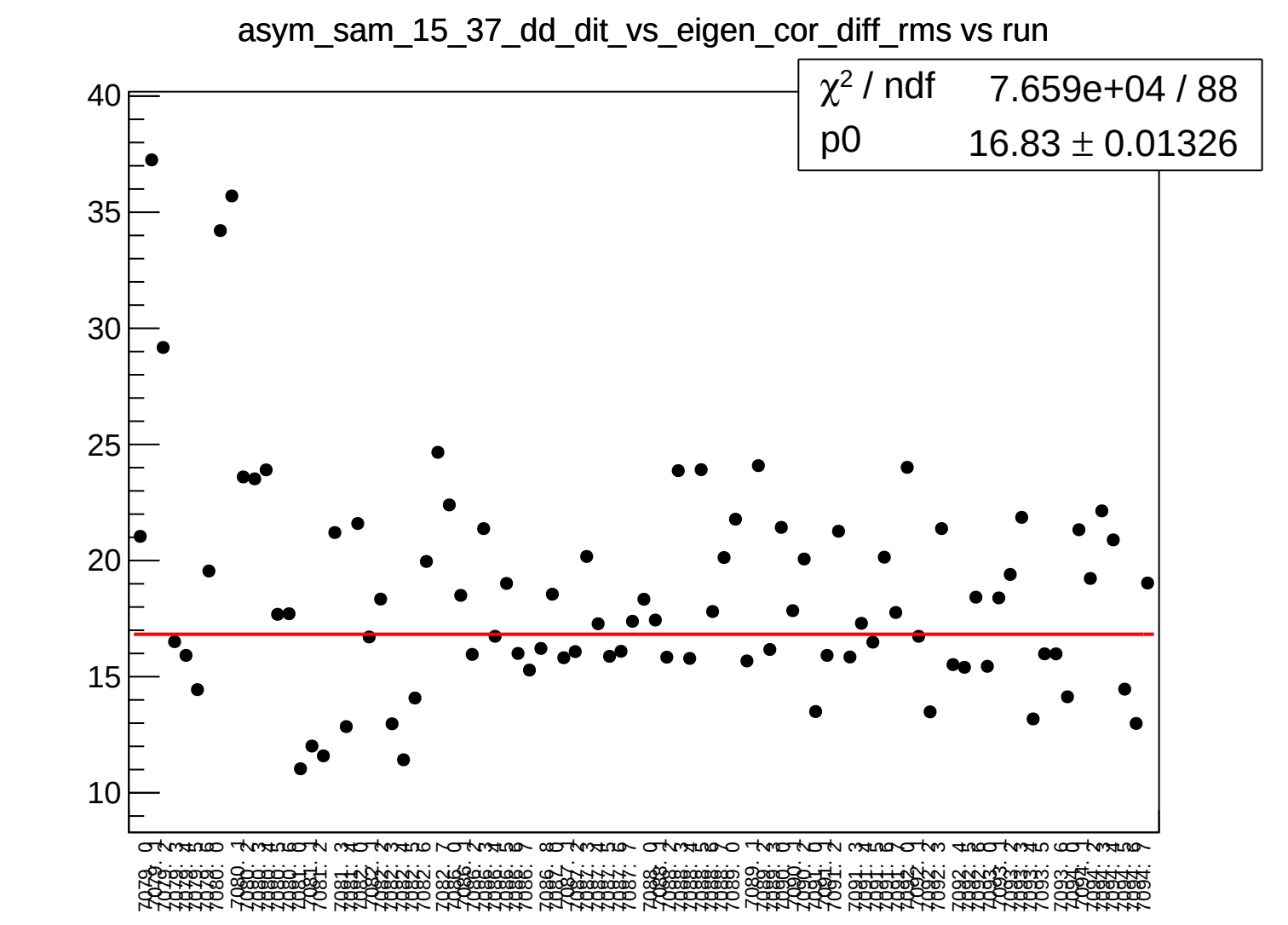

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.868e+05 / 88
p0 1.021e−11 ± 1.22e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

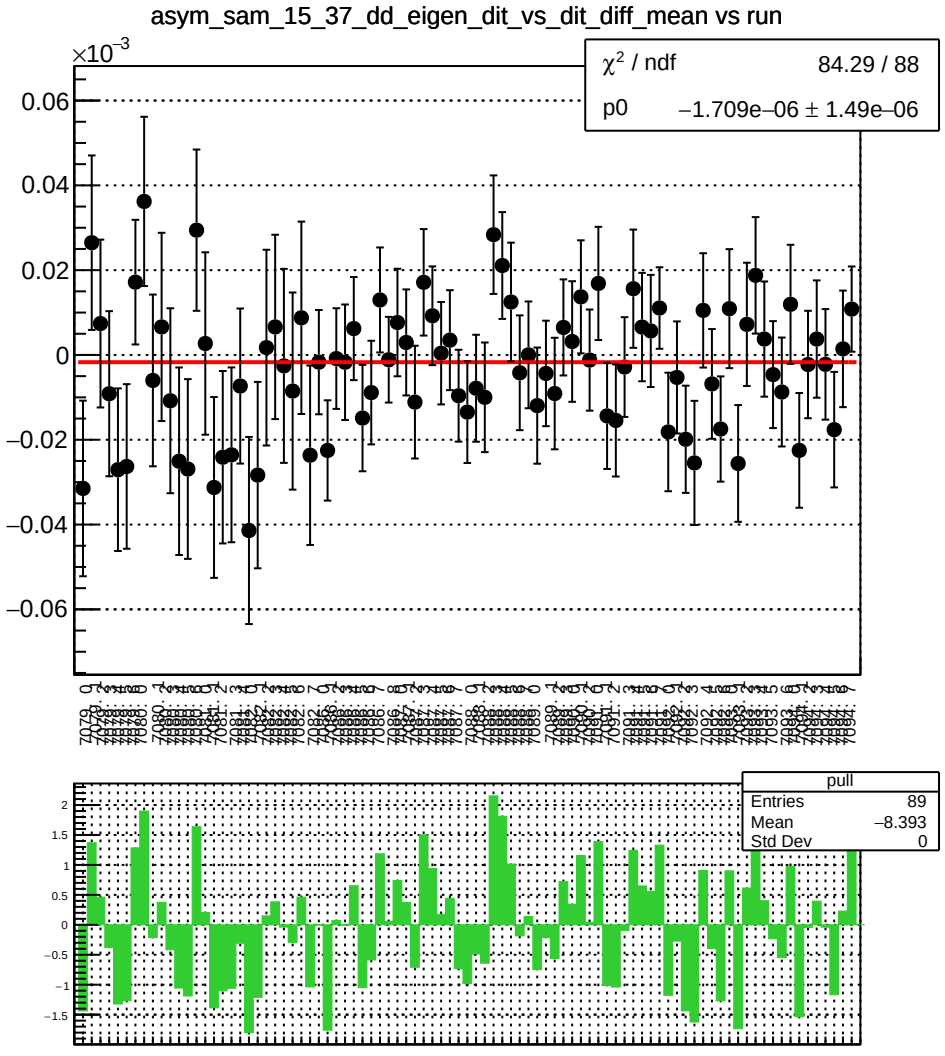

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84 / 88
p0 −0.006852 ± 0.01876
pull
Entries 89
Mean −133.7
Std Dev 0

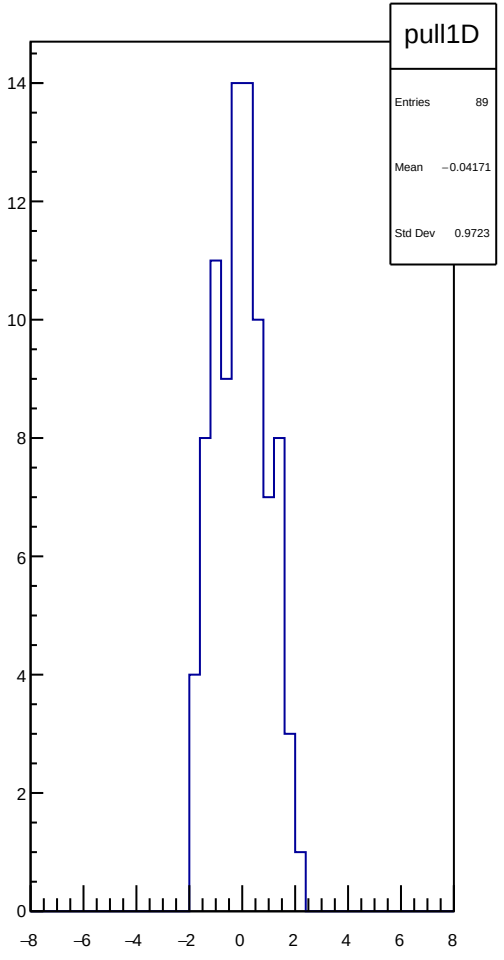

pull1D
Entries 89
Mean −0.02312
Std Dev 0.9712

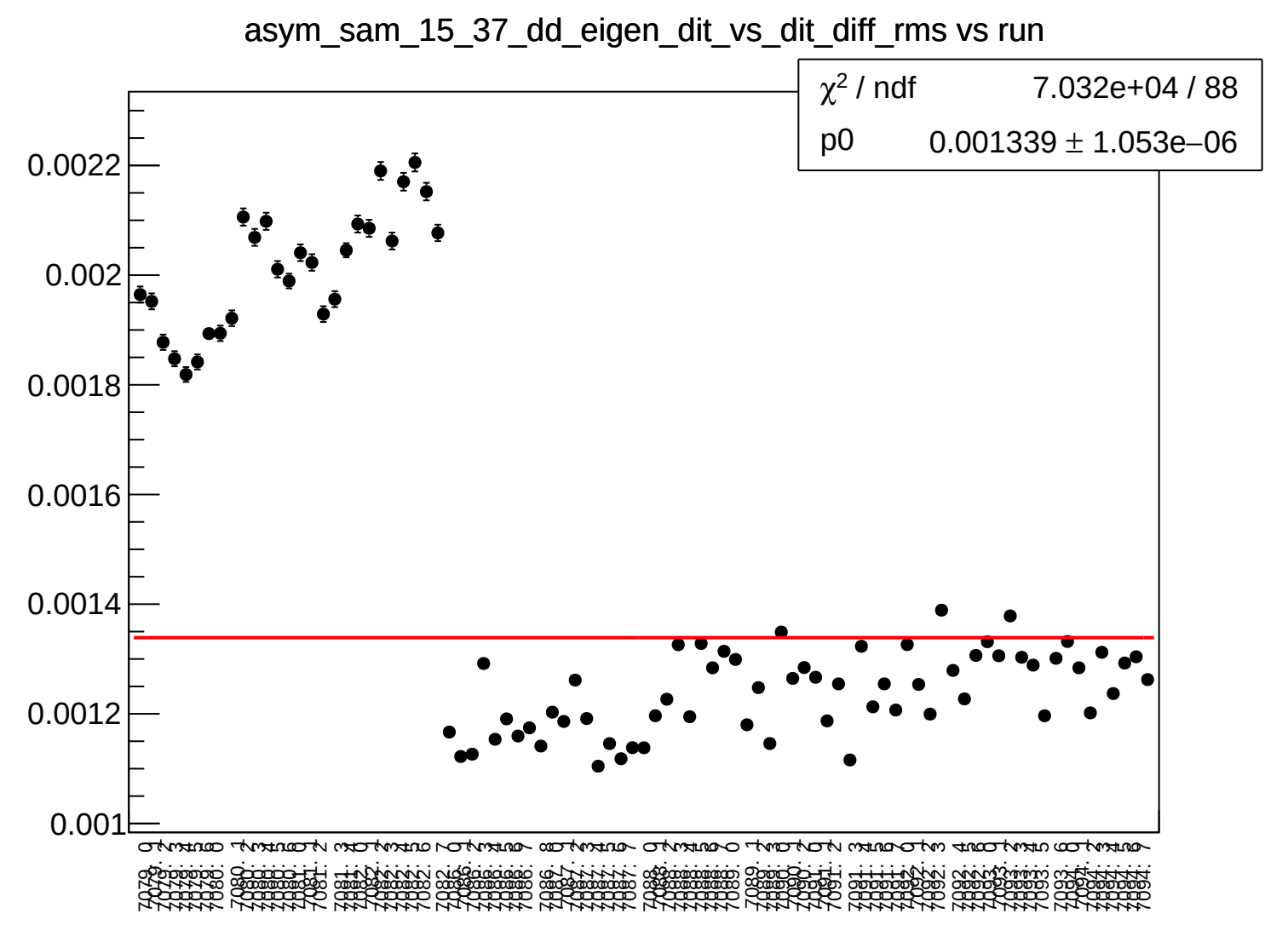

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.659e+04 / 88
p0 16.83 ± 0.01326
40
35
30
25
20
15
10

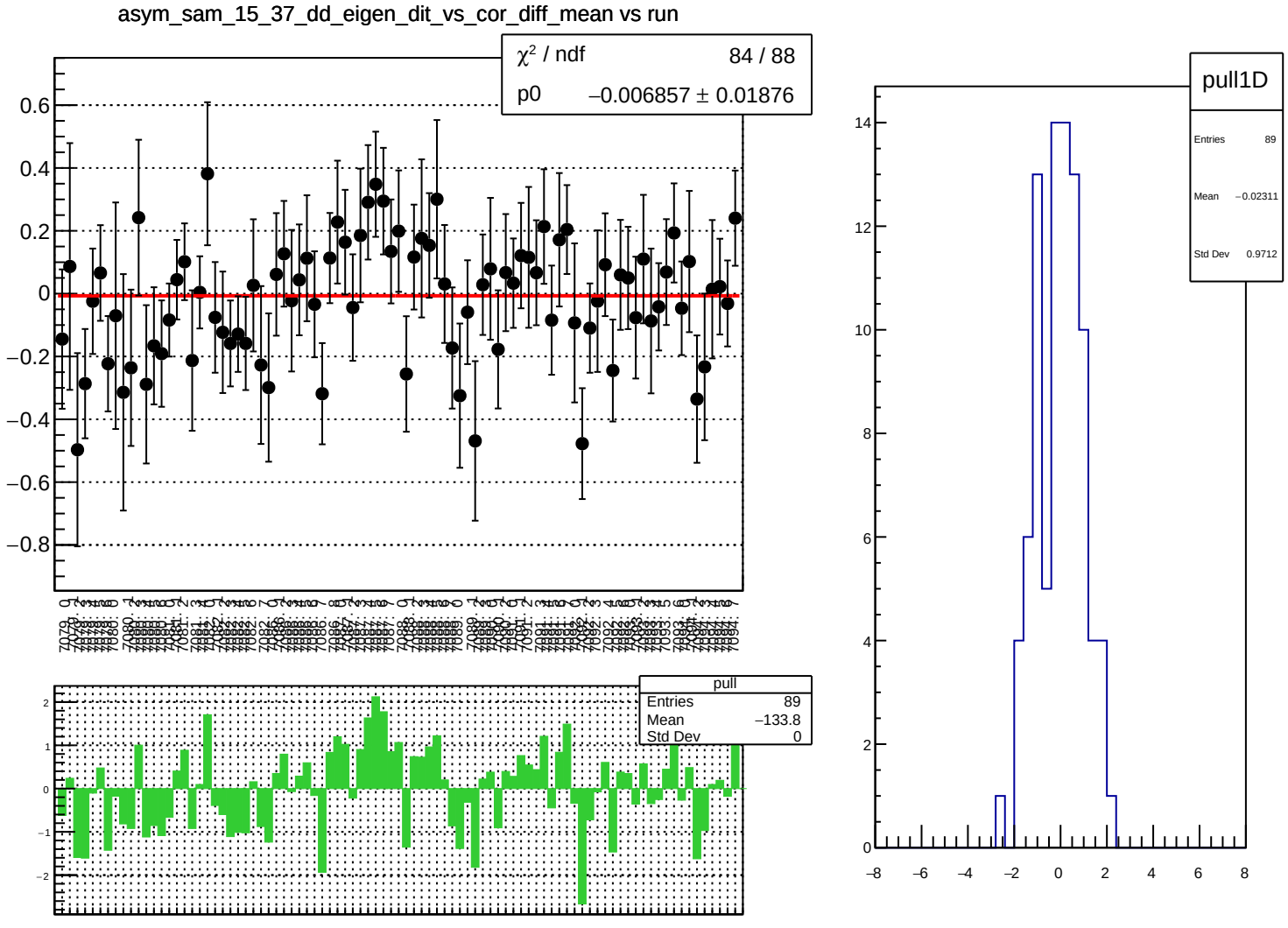

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84 / 88
p0 −0.006852 ± 0.01876
pull
Entries 89
Mean −133.7
Std Dev 0
pull1D
Entries 89
Mean −0.02312
Std Dev 0.9712

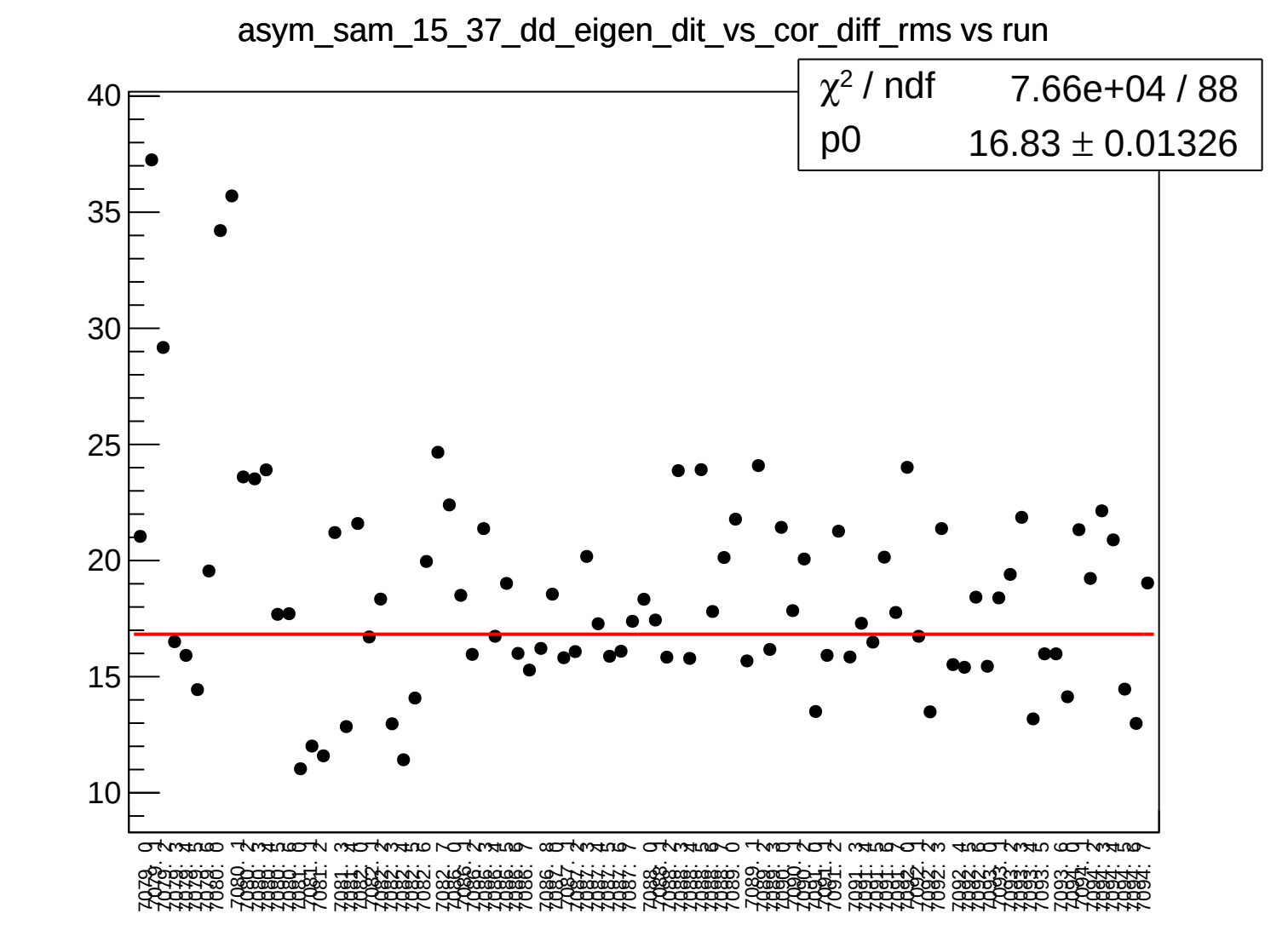

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.659e+04 / 88
p0 16.83 ± 0.01326
40
35
30
25
20
15
10

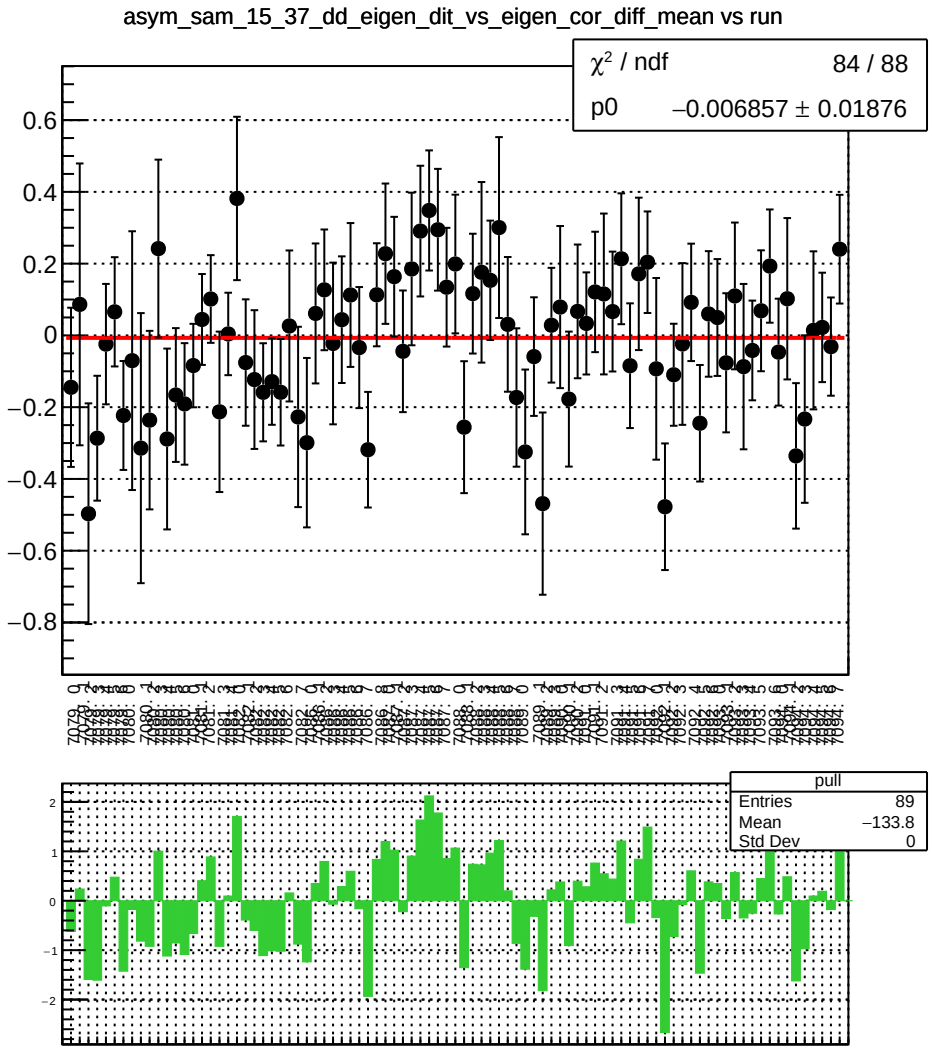

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.29 / 88
p0 −1.709e−06 ± 1.49e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −8.393
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

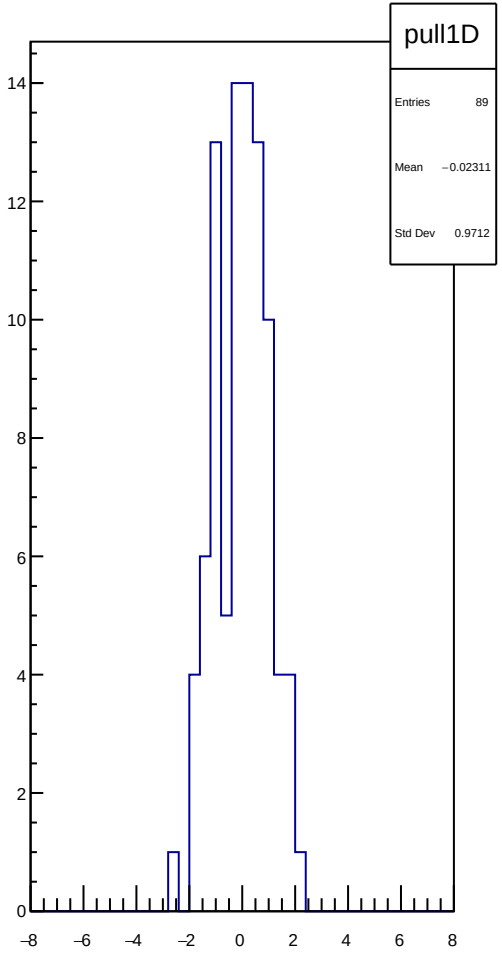

pull1D
Entries 89
Mean −0.04171
Std Dev 0.9723
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

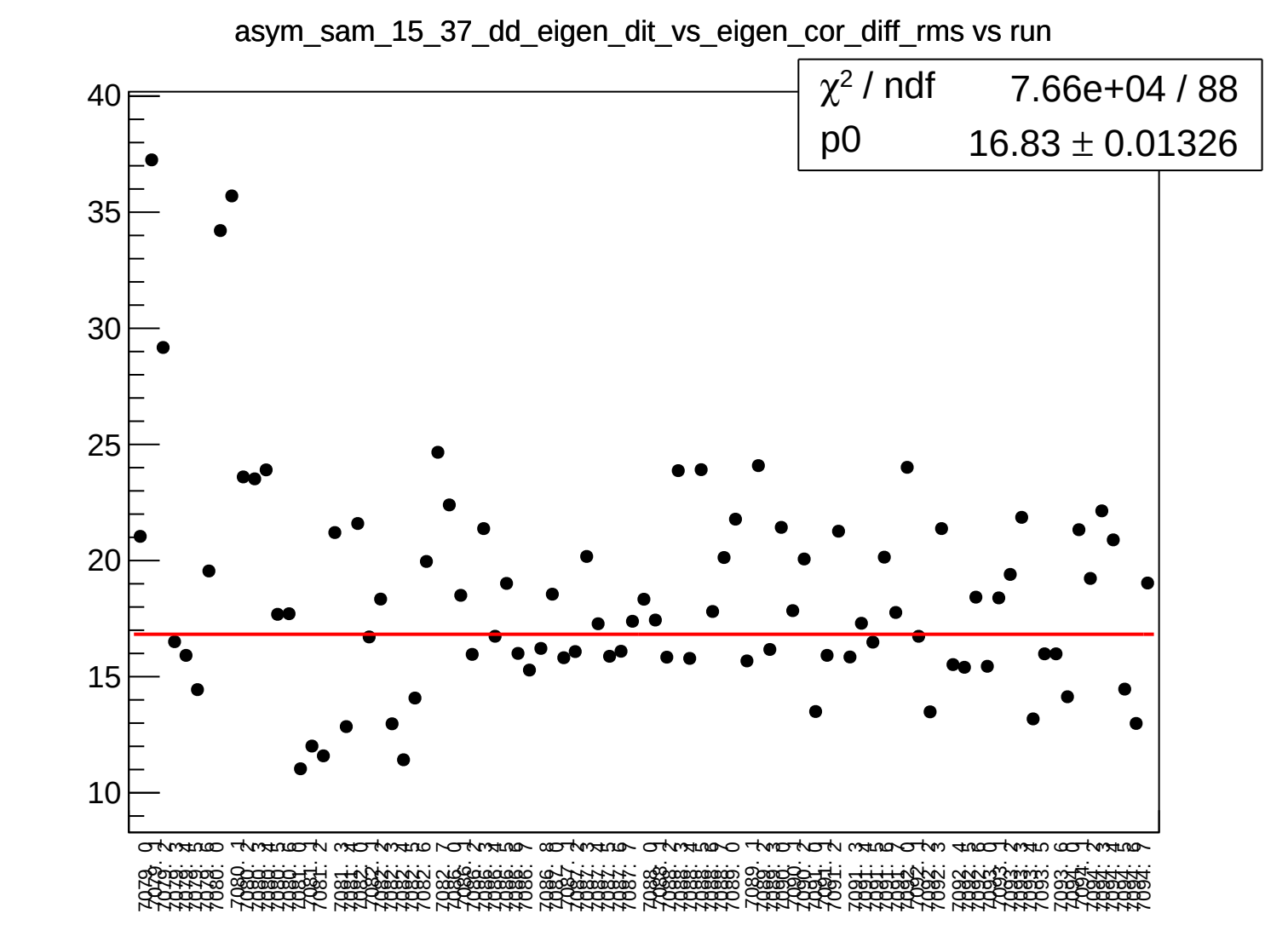

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.032e+04 / 88
p0 0.001339 ± 1.053e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

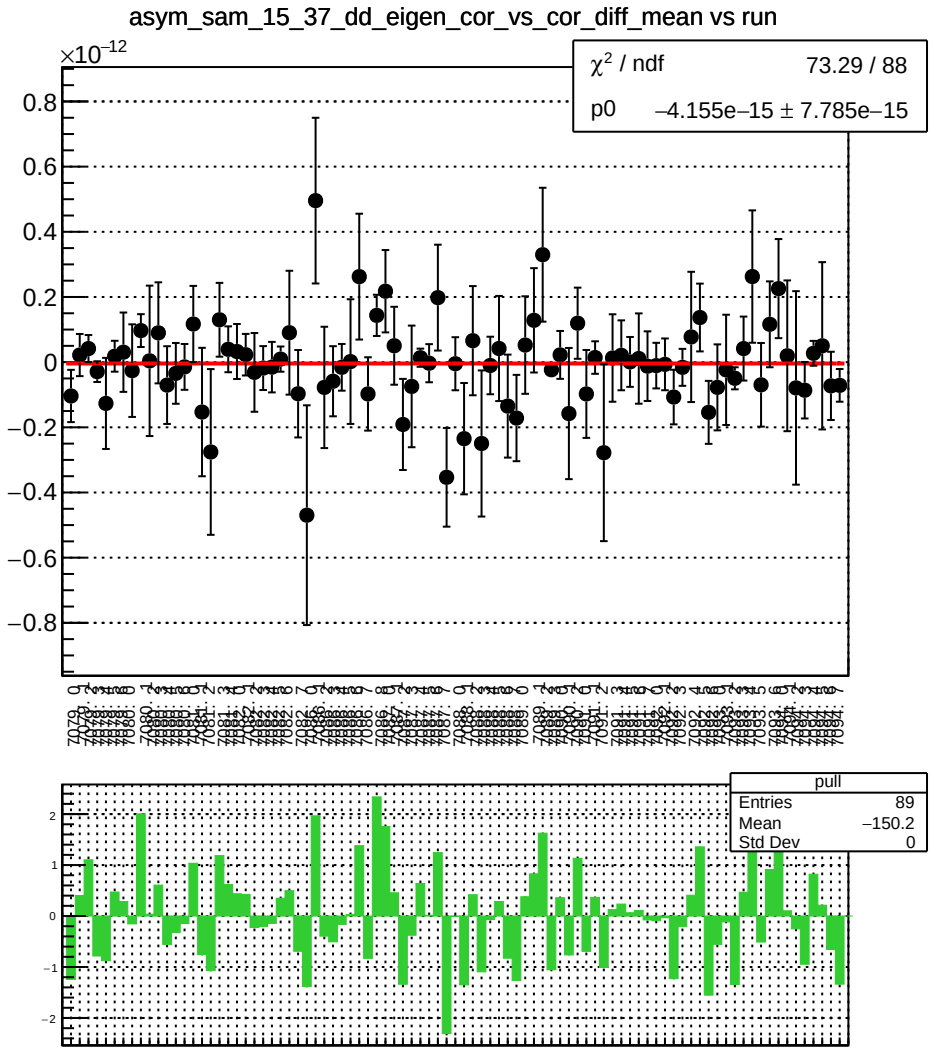

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84 / 88
p0 −0.006857 ± 0.01876
pull
Entries 89
Mean −133.8
Std Dev 0
pull1D
Entries 89
Mean −0.02311
Std Dev 0.9712

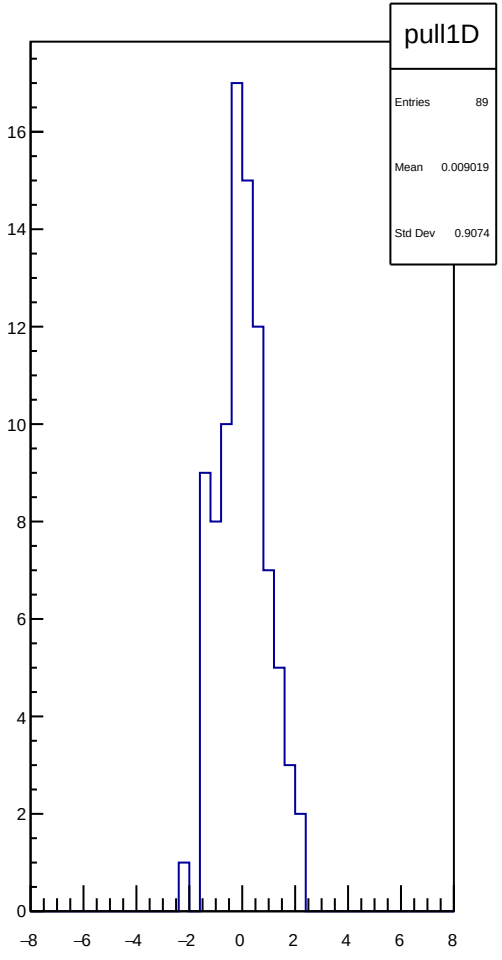

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.66e+04 / 88
p0 16.83 ± 0.01326
40
35
30
25
20
15
10

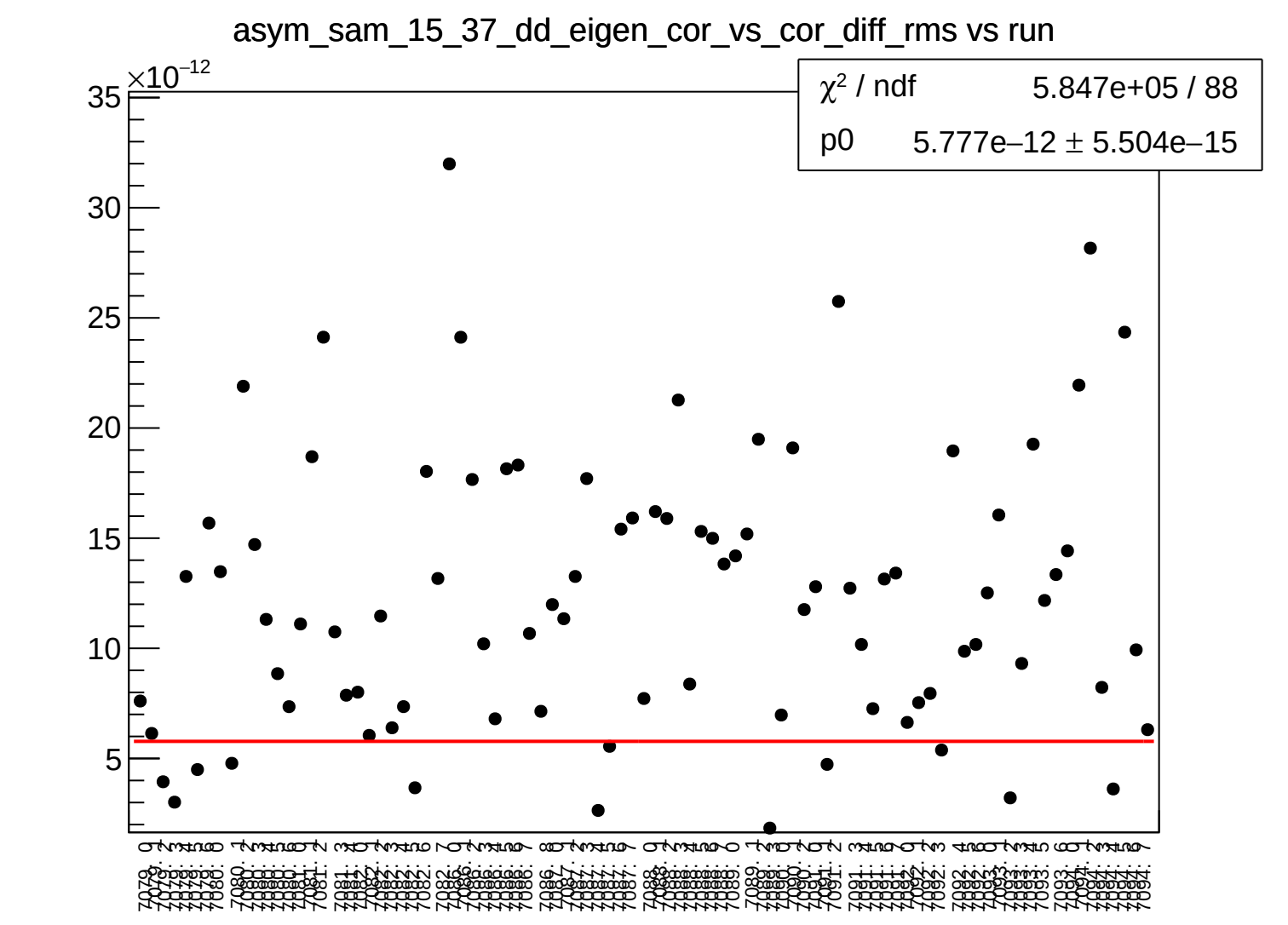

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84 / 88
p0 −0.006857 ± 0.01876
pull
Entries 89
Mean −133.8
Std Dev 0

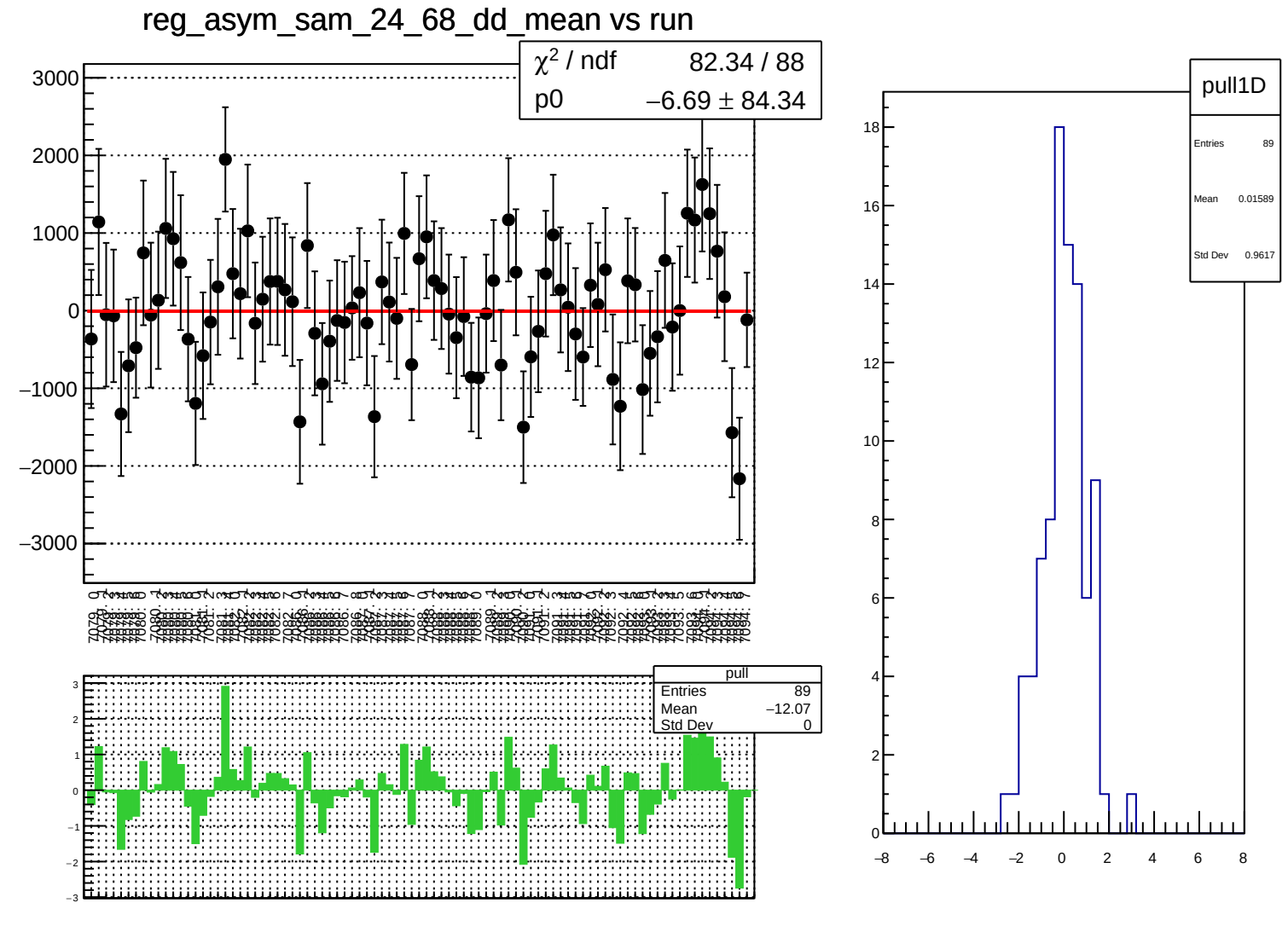

pull1D
Entries 89
Mean −0.02311
Std Dev 0.9712

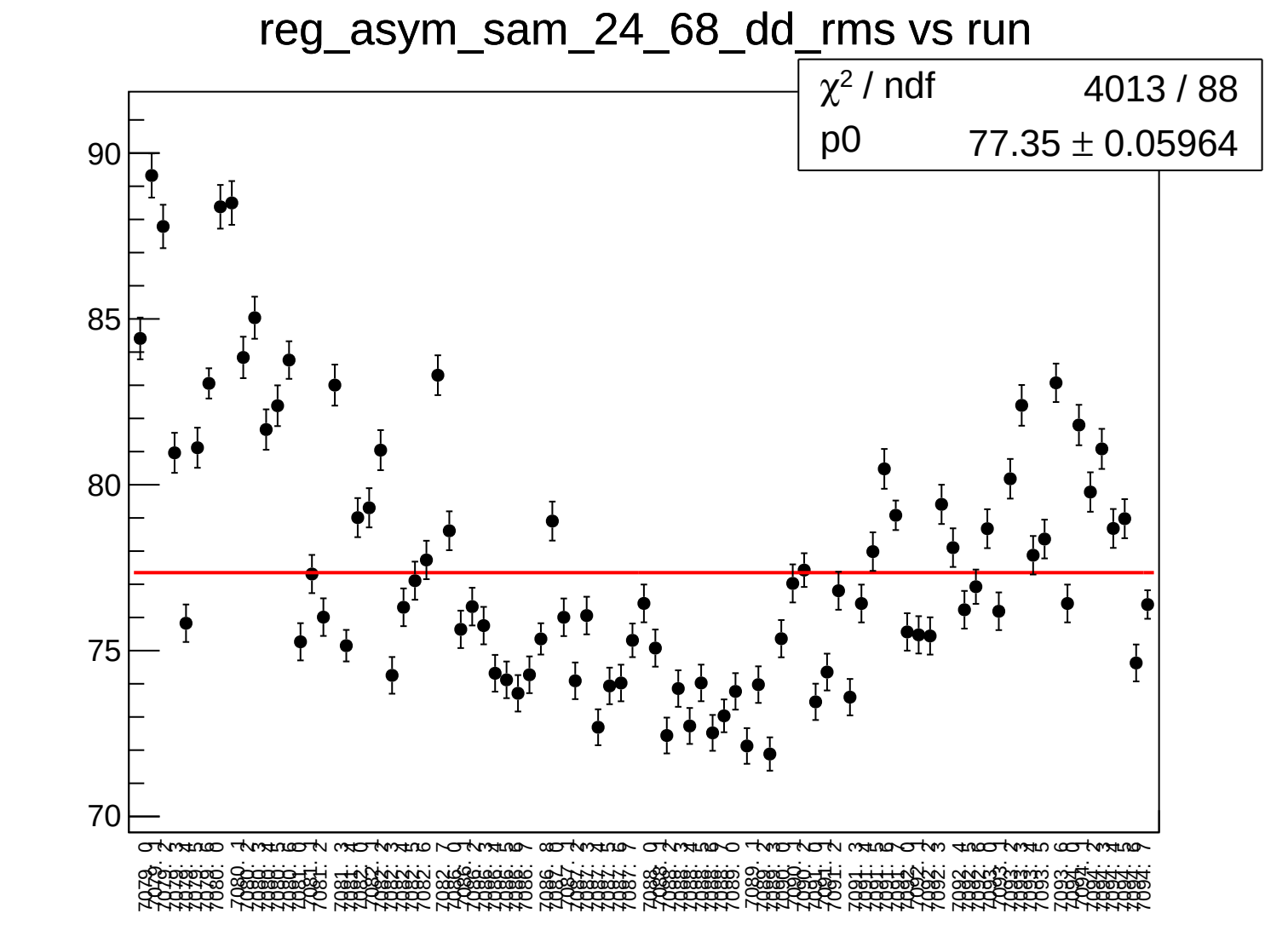

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.66e+04 / 88
p0 16.83 ± 0.01326
40
35
30
25
20
15
10

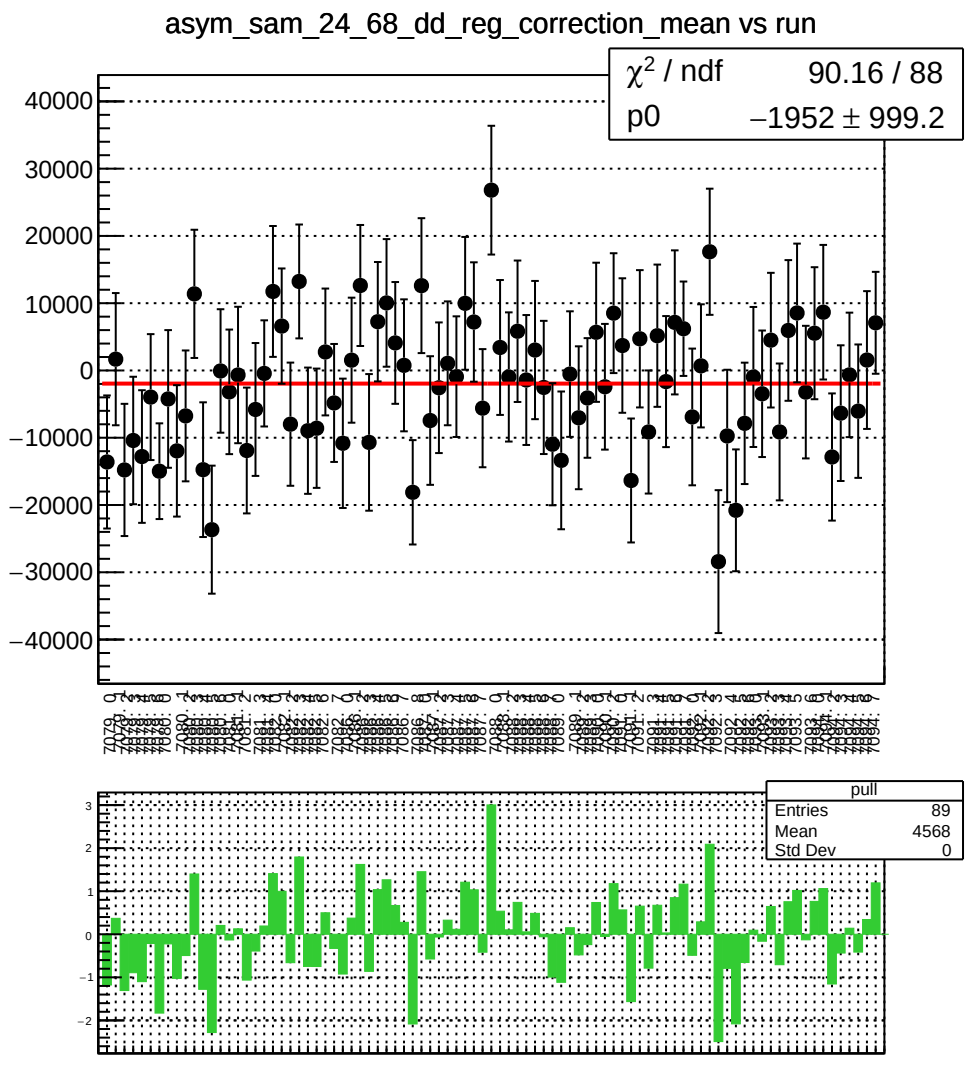

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.29 / 88
p0 −4.155e−15 ± 7.785e−15
pull
Entries 89
Mean −150.2
Std Dev 0

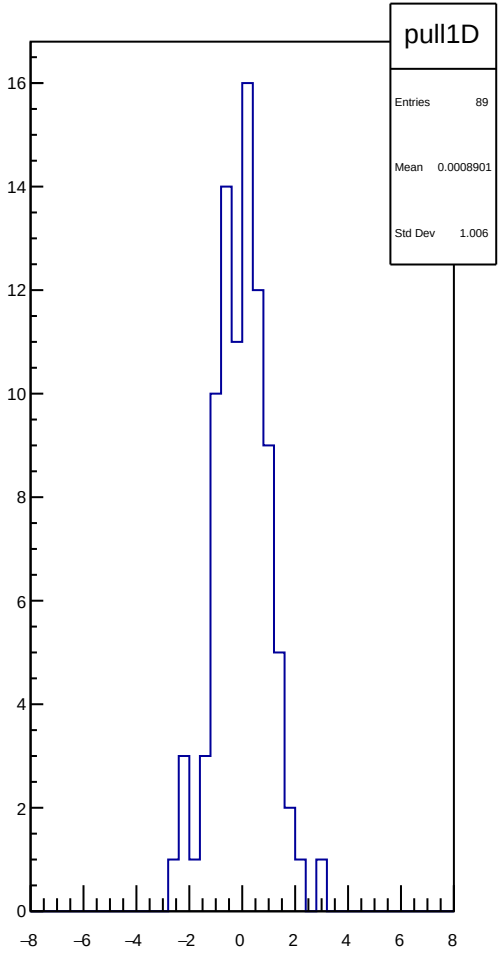

pull1D
Entries 89
Mean 0.009019
Std Dev 0.9074

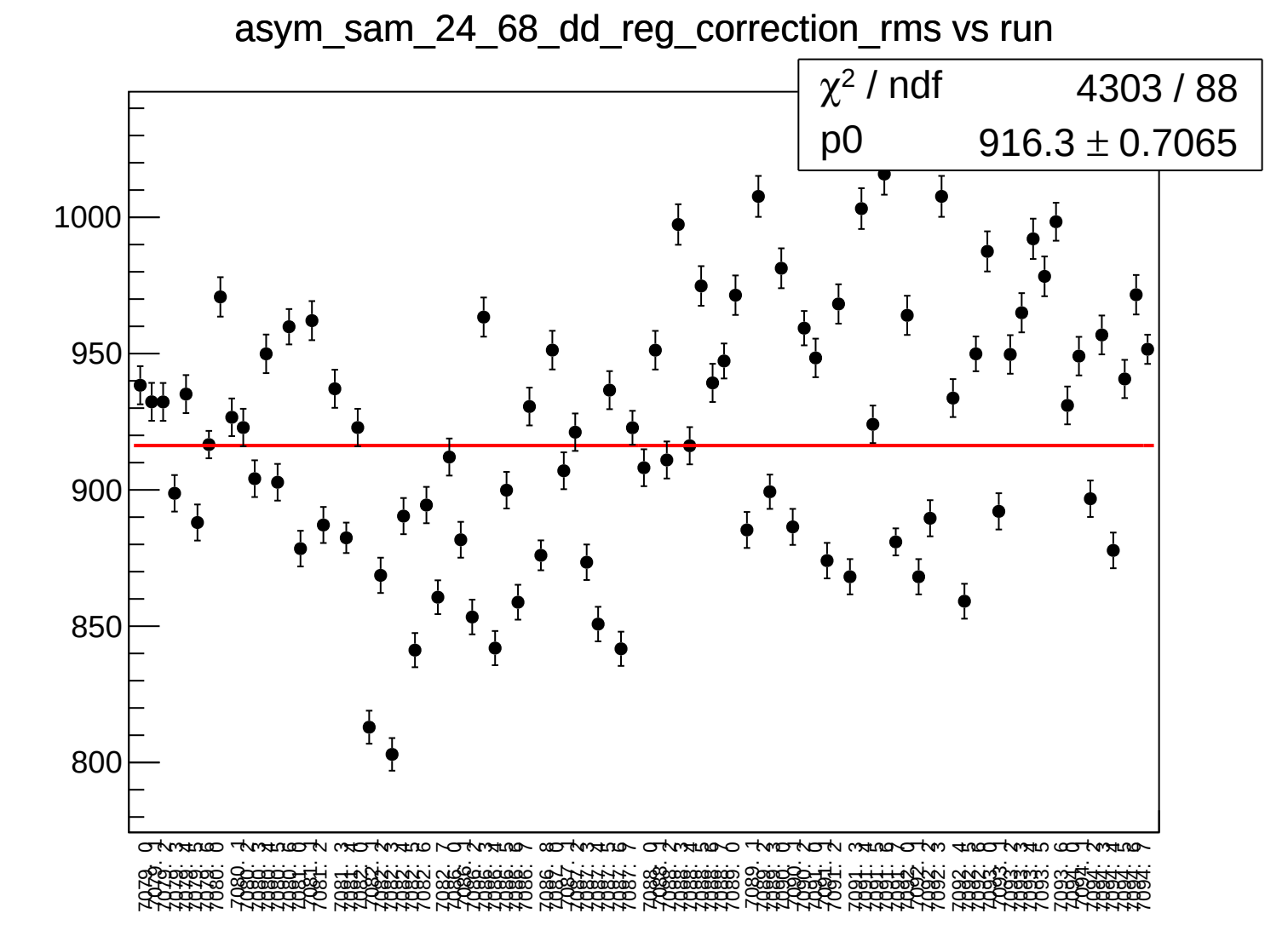

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.847e+05 / 88
p0 5.777e−12 ± 5.504e−15
35
30
25
20
15
10
5

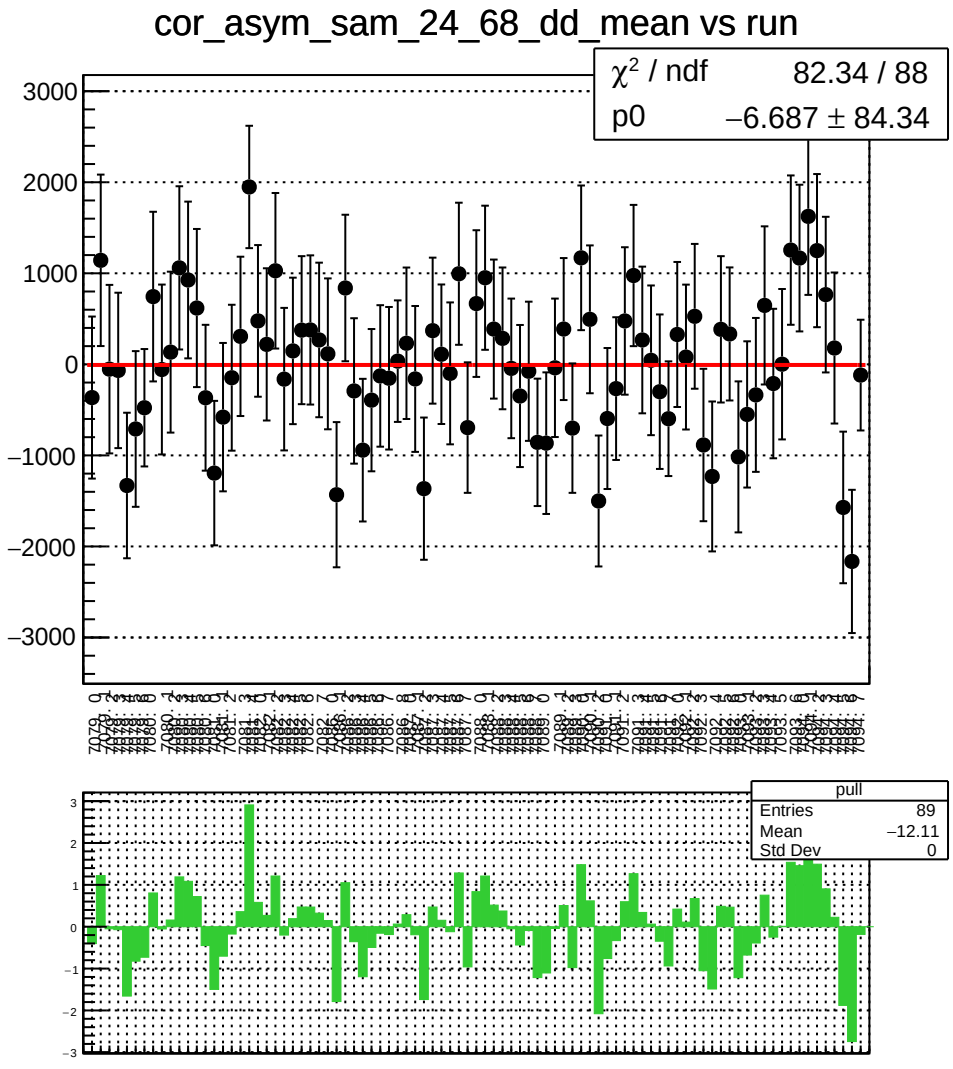

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 82.34 / 88
p0 −6.69 ± 84.34
pull
Entries 89
Mean −12.07
Std Dev 0
pull1D
Entries 89
Mean 0.01589
Std Dev 0.9617

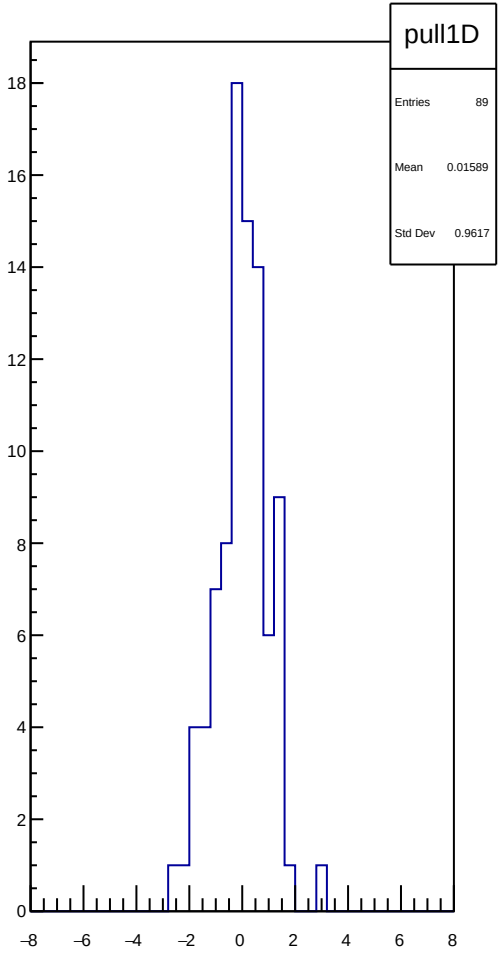

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 4013 / 88
p0 77.35 ± 0.05964
90
85
80
75
70

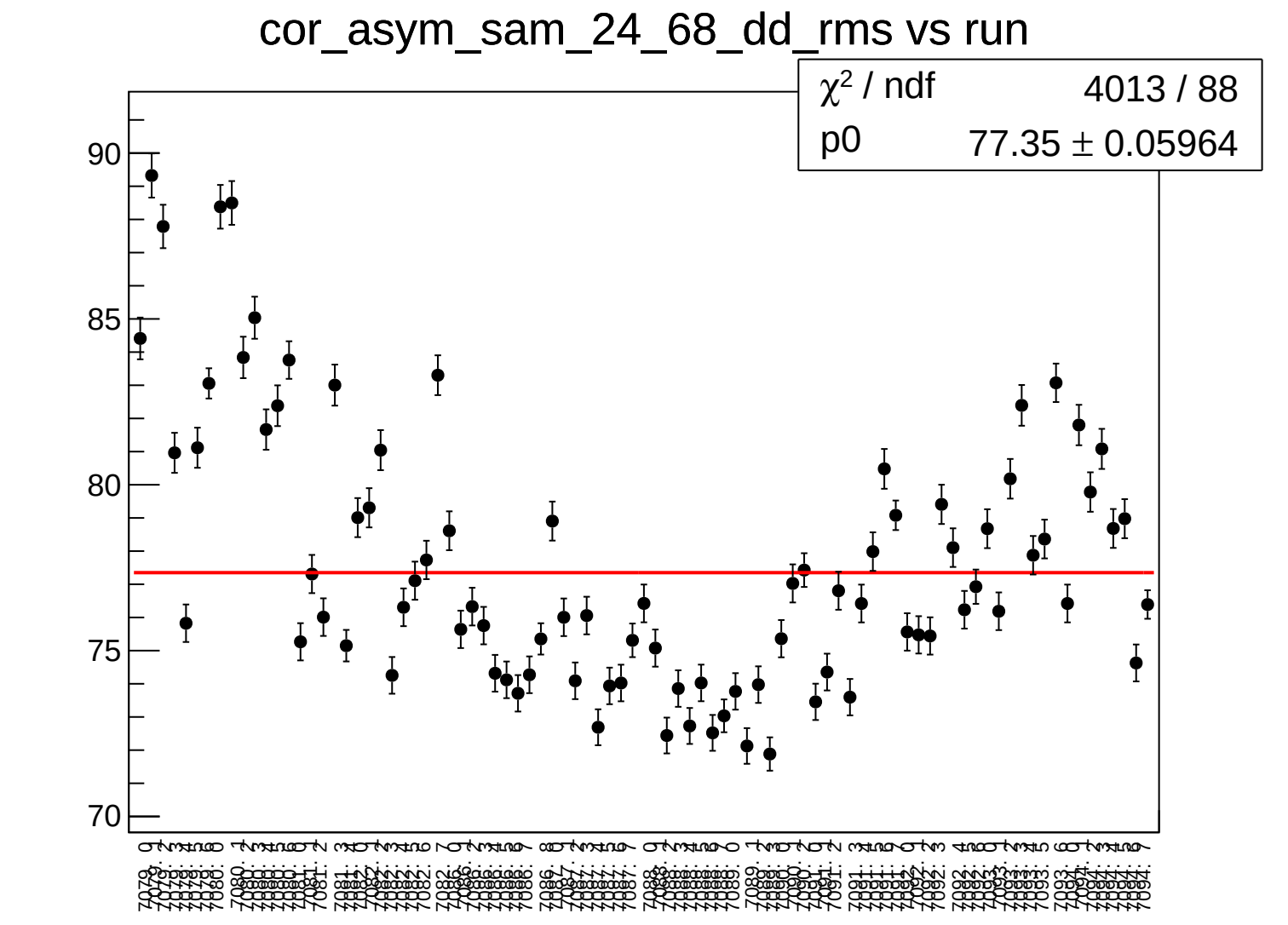

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 90.16 / 88
p0 −1952 ± 999.2
pull
Entries 89
Mean 4568
Std Dev 0

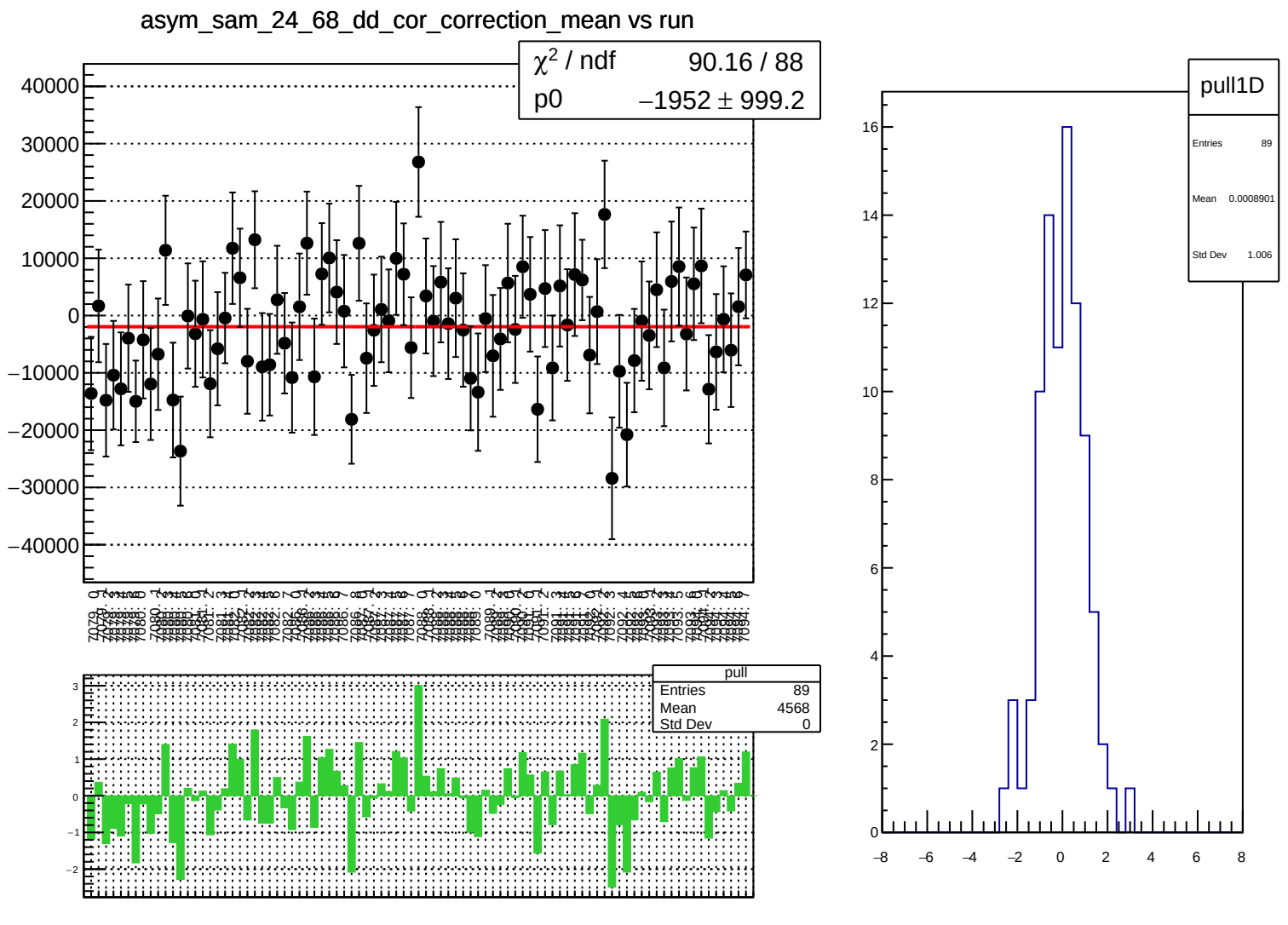

pull1D
Entries 89
Mean 0.0008901
Std Dev 1.006

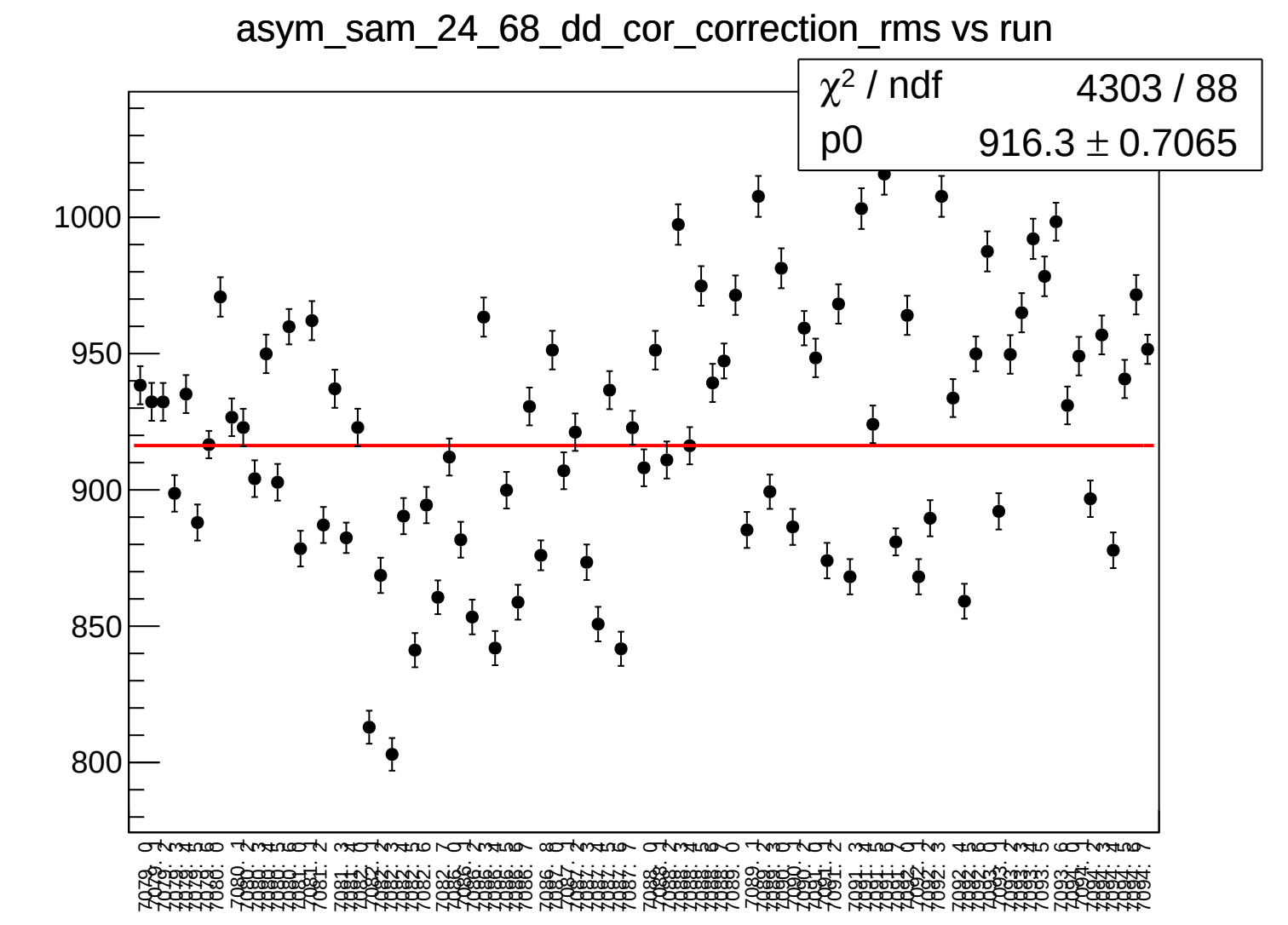

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4303 / 88
p0 916.3 ± 0.7065
1000
950
900
850
800

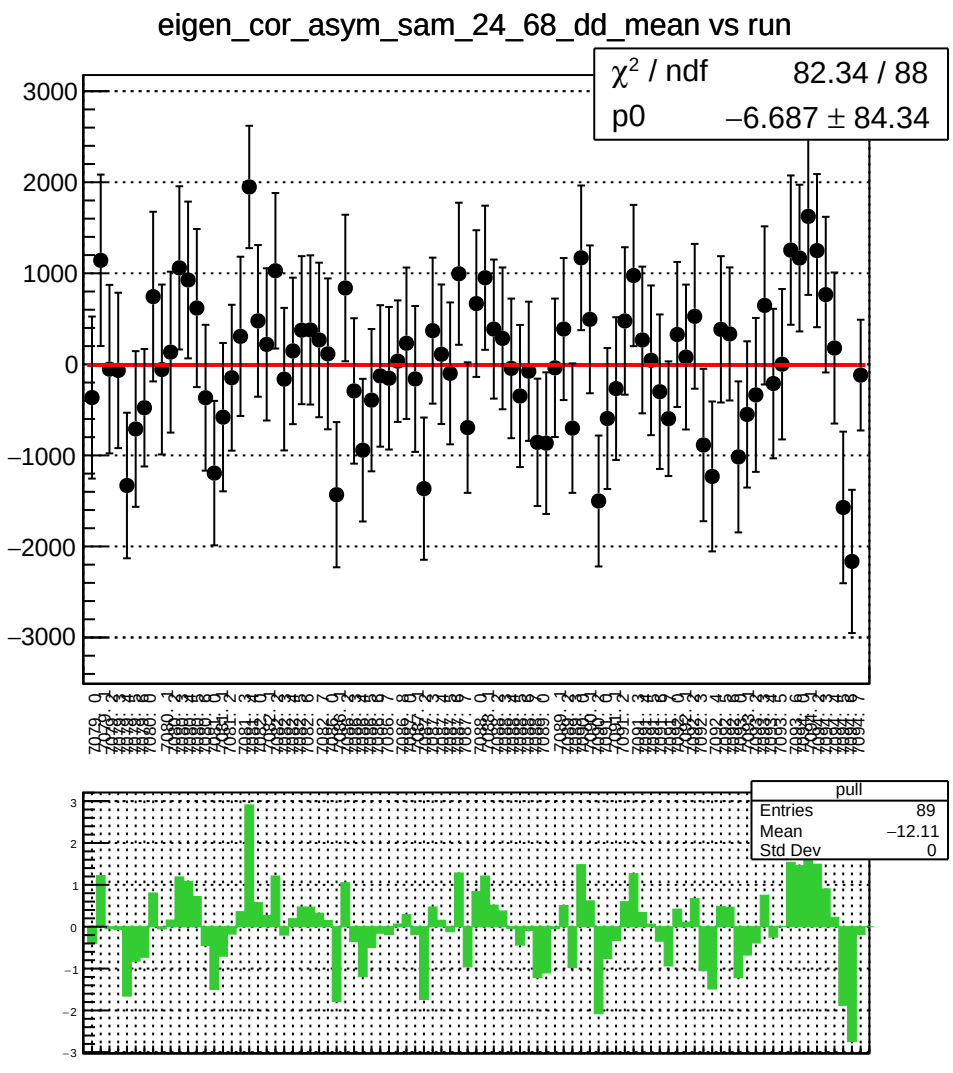

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 82.34 / 88
p0 −6.687 ± 84.34
pull
Entries 89
Mean −12.11
Std Dev 0

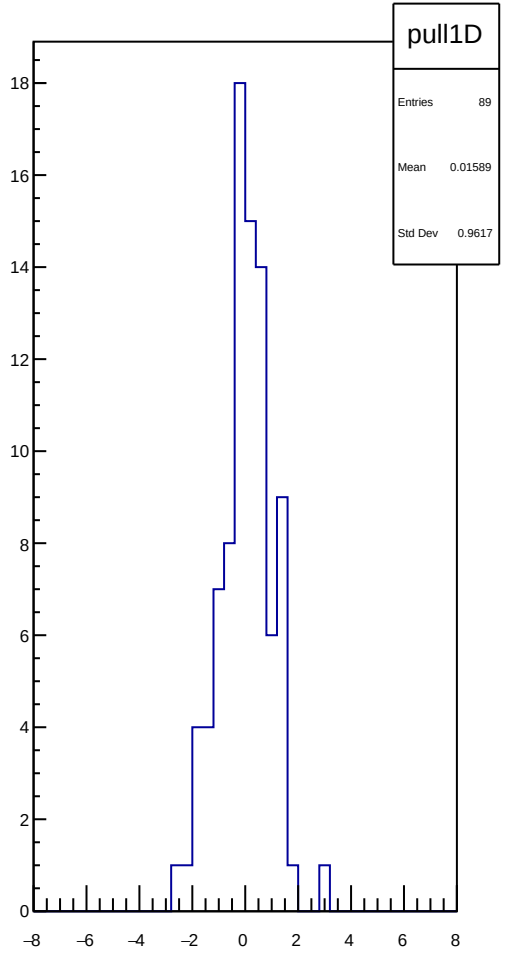

pull1D
Entries 89
Mean 0.01589
Std Dev 0.9617

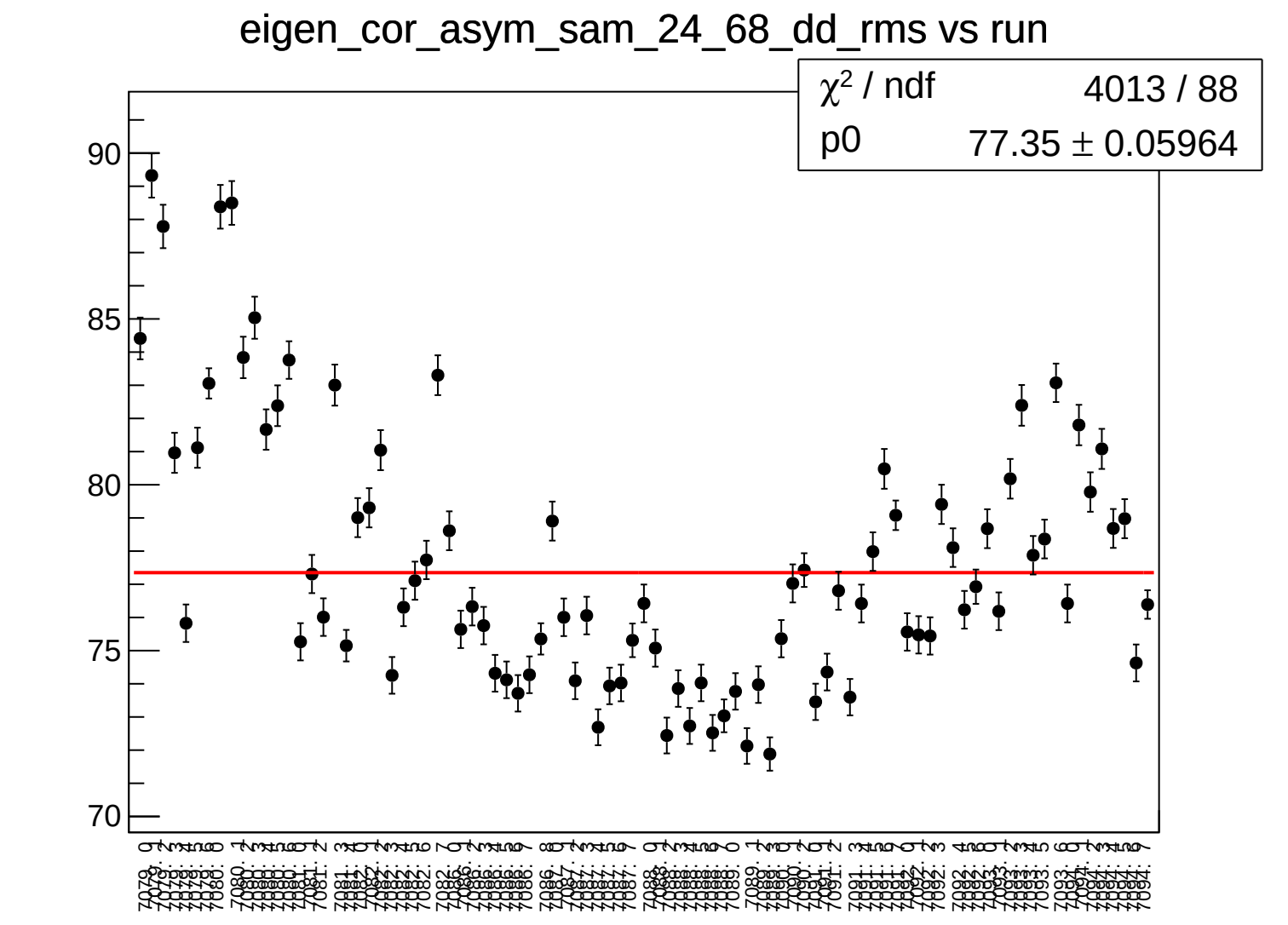

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 4013 / 88
p0 77.35 ± 0.05964
90
85
80
75
70

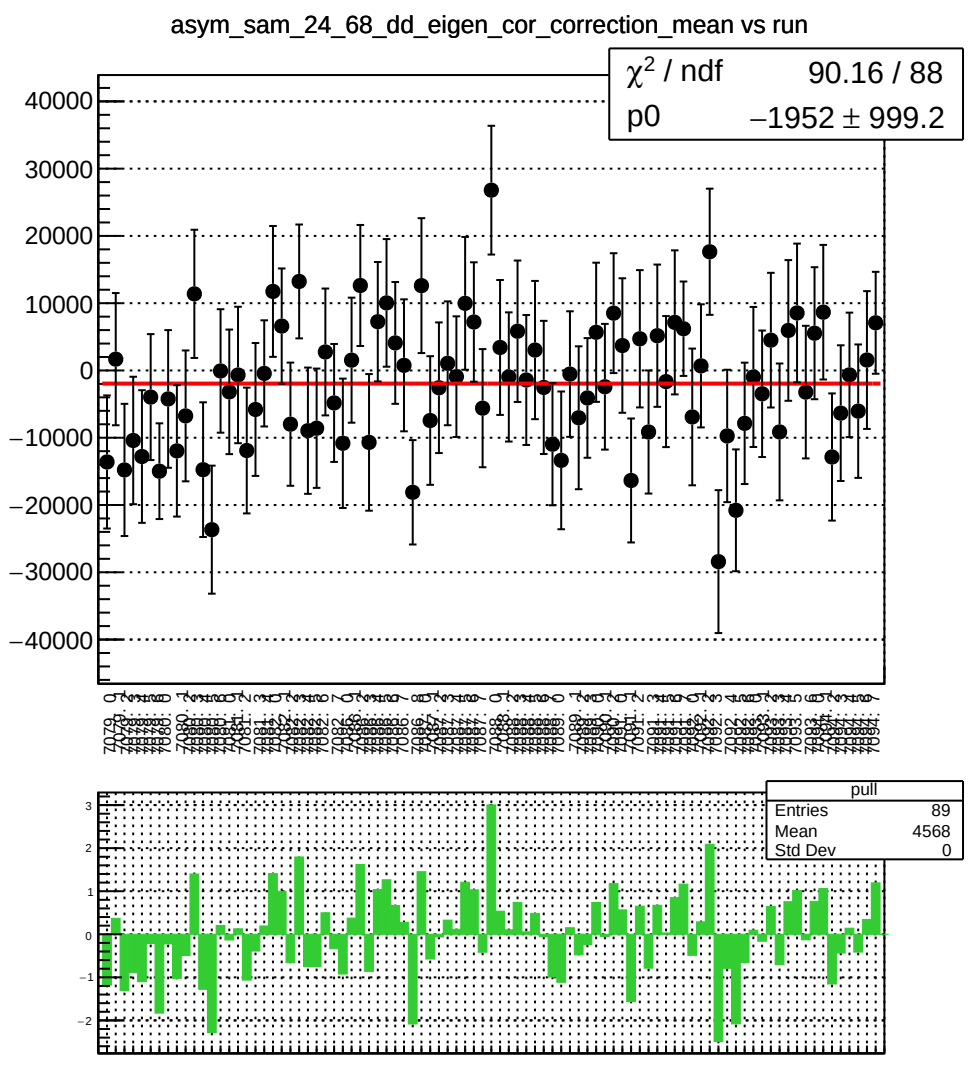

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 90.16 / 88
p0 −1952 ± 999.2
pull
Entries 89
Mean 4568
Std Dev 0
pull1D
Entries 89
Mean 0.0008901
Std Dev 1.006

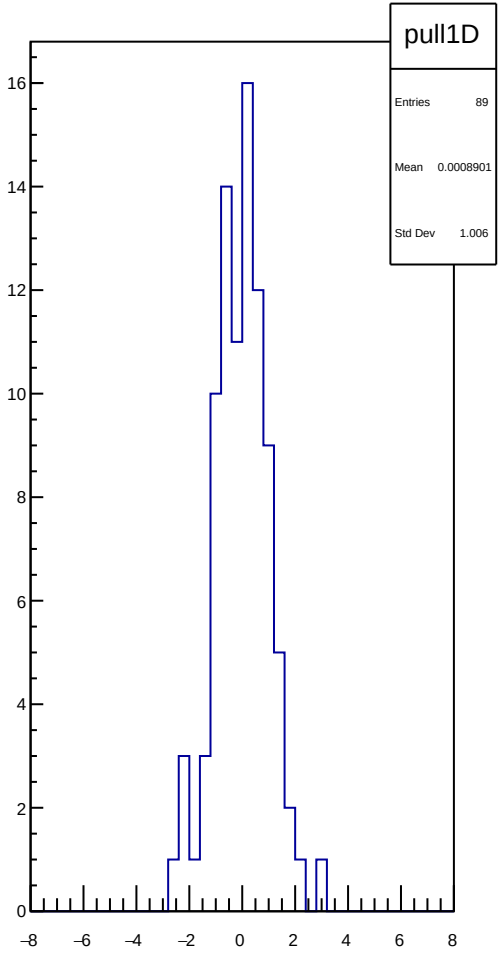

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4303 / 88
p0 916.3 ± 0.7065
1000
950
900
850
800

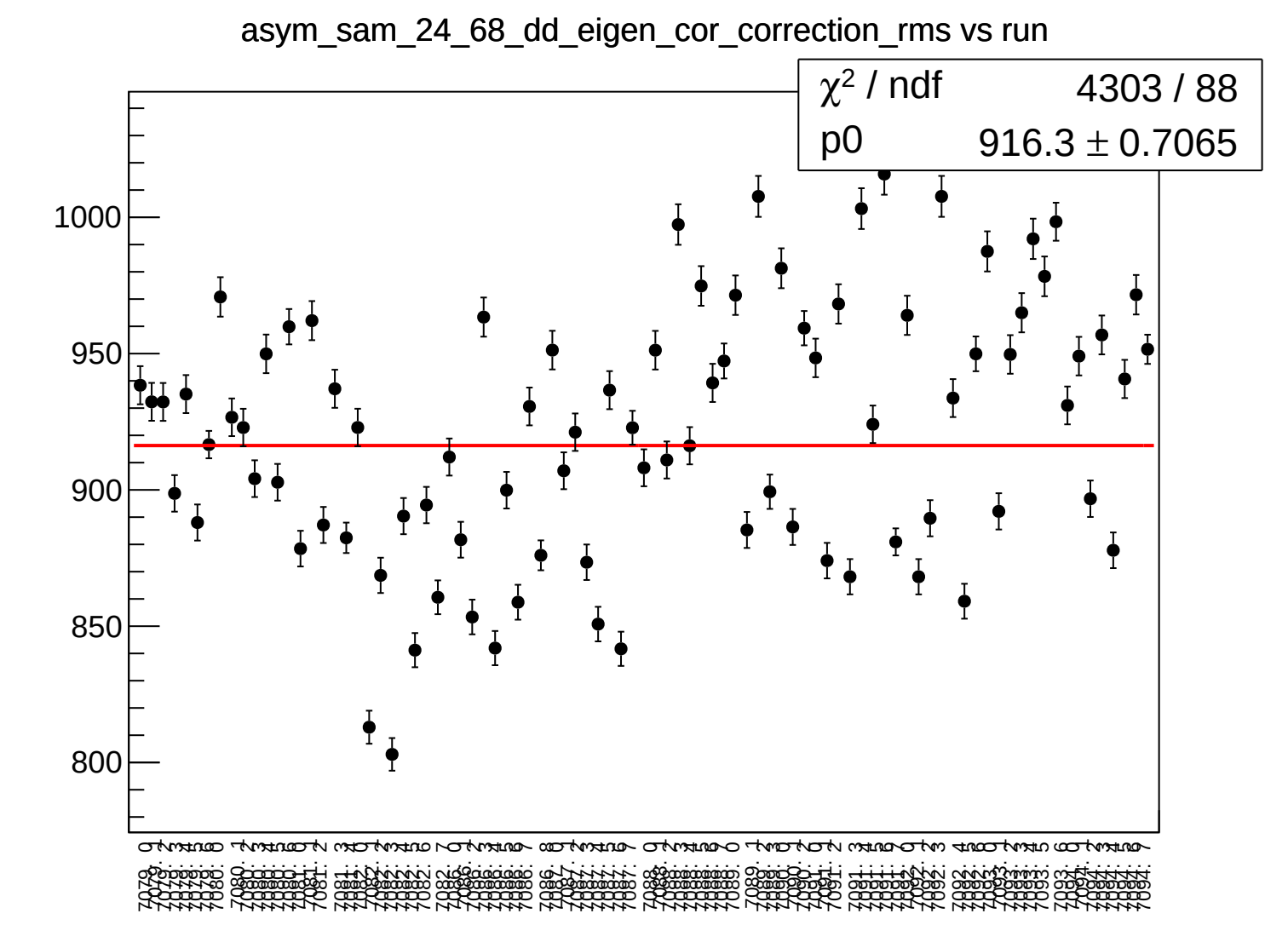

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 82.34 / 88
p0 −6.687 ± 84.34
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −12.11
Std Dev 0
3
2
1
0
−1
−2
−3

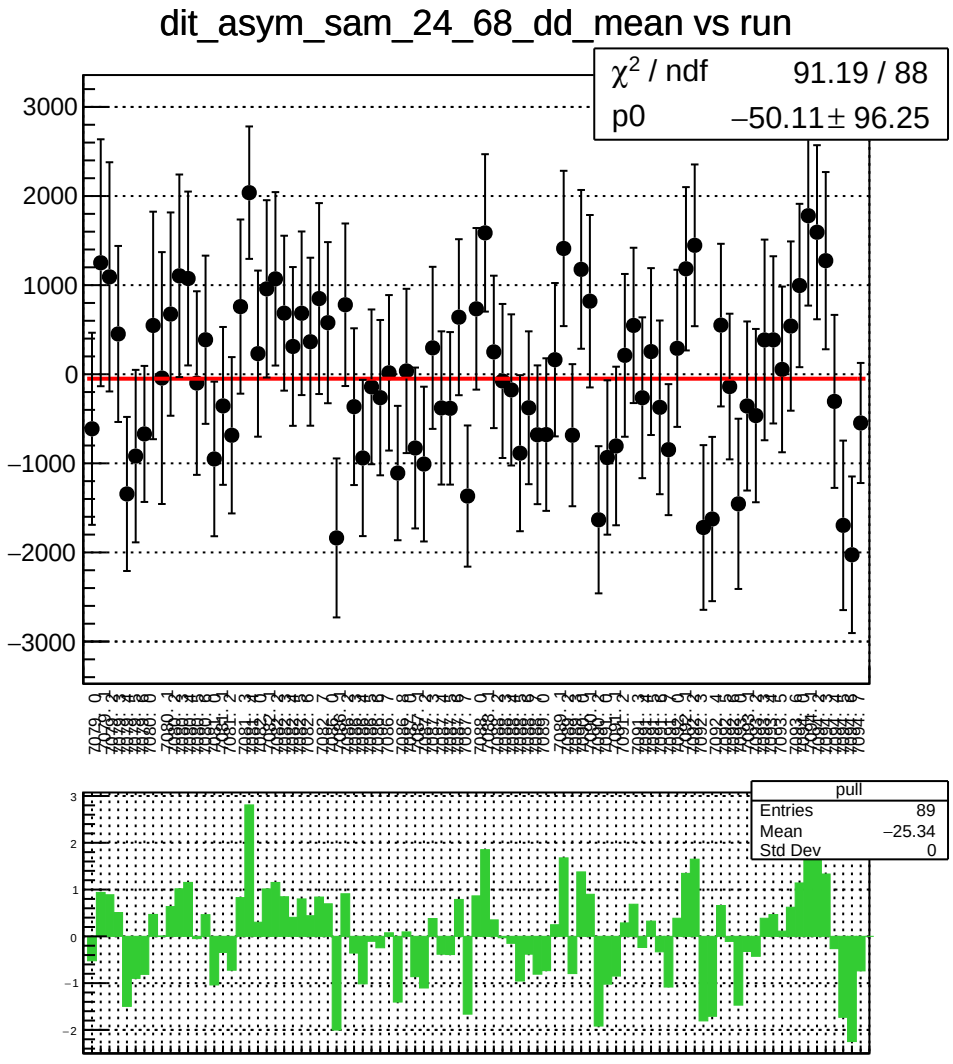

pull1D
Entries 89
Mean 0.01589
Std Dev 0.9617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

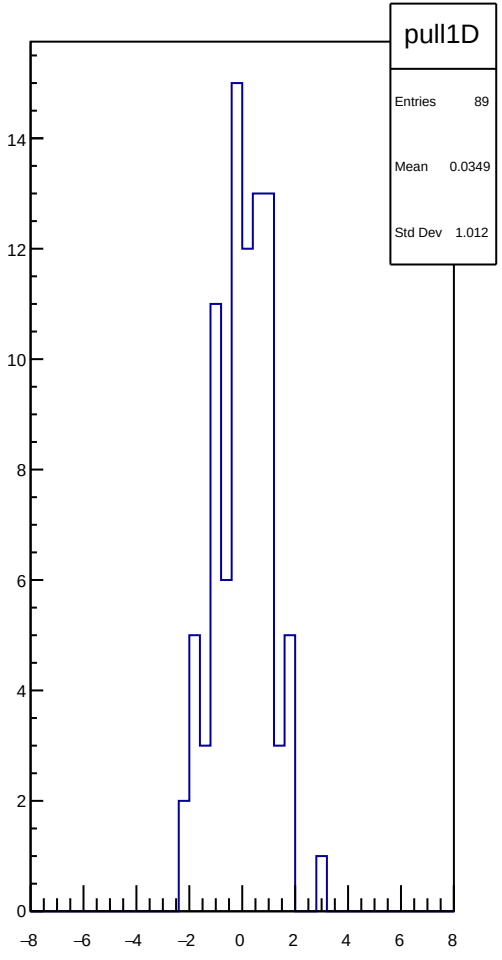

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 4013 / 88
p0 77.35 ± 0.05964
90
85
80
75
70

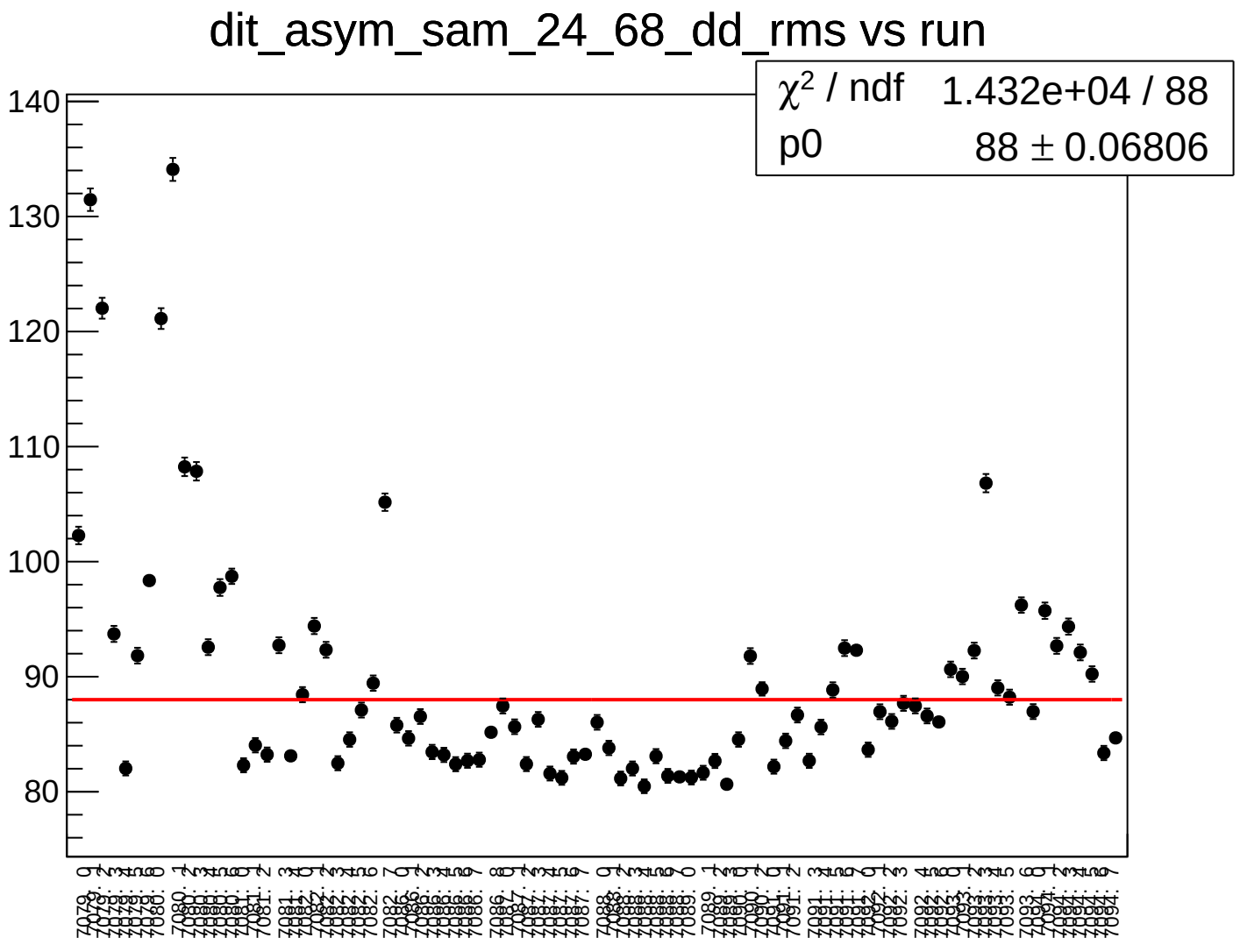

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ^2 / ndf 90.16 / 88
p0 −1952 ± 999.2
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 4568
Std Dev 0
3
2
1
0
−1
−2

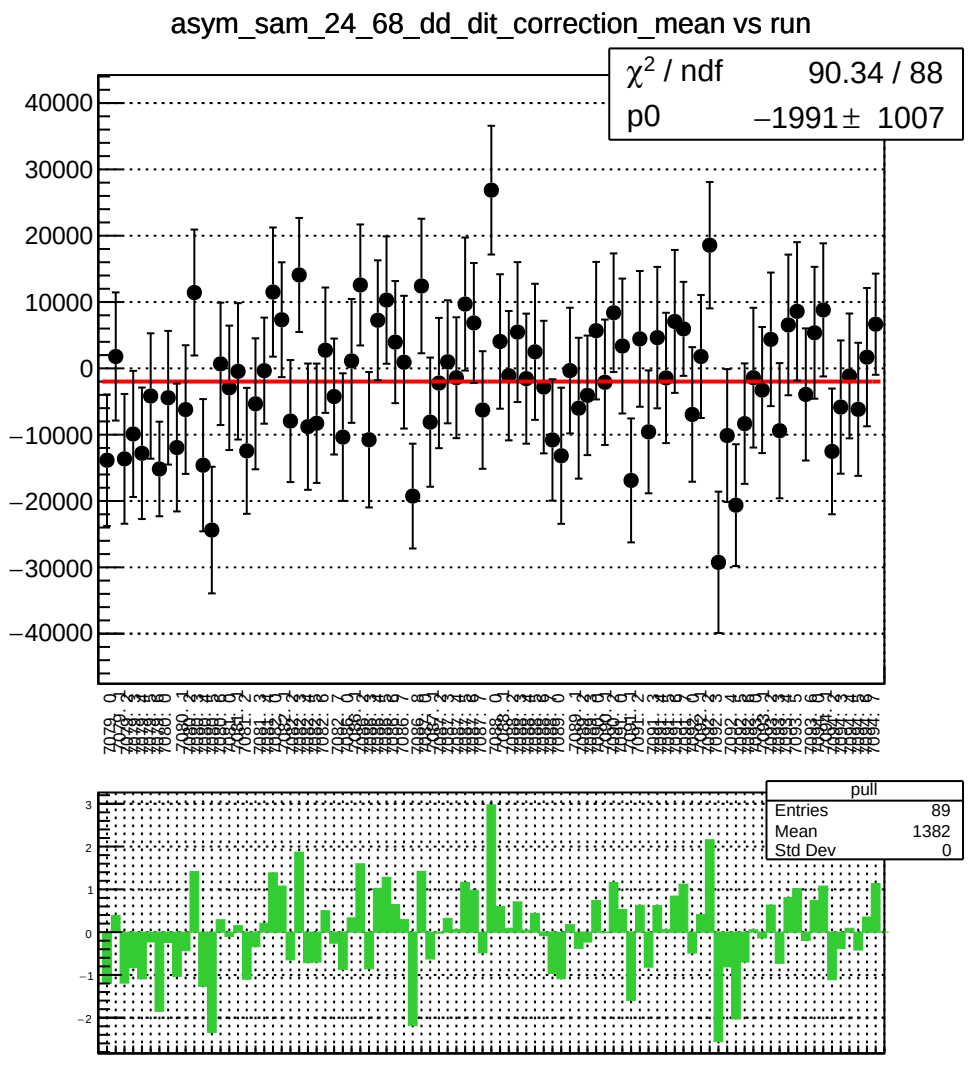

pull1D
Entries 89
Mean 0.0008901
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

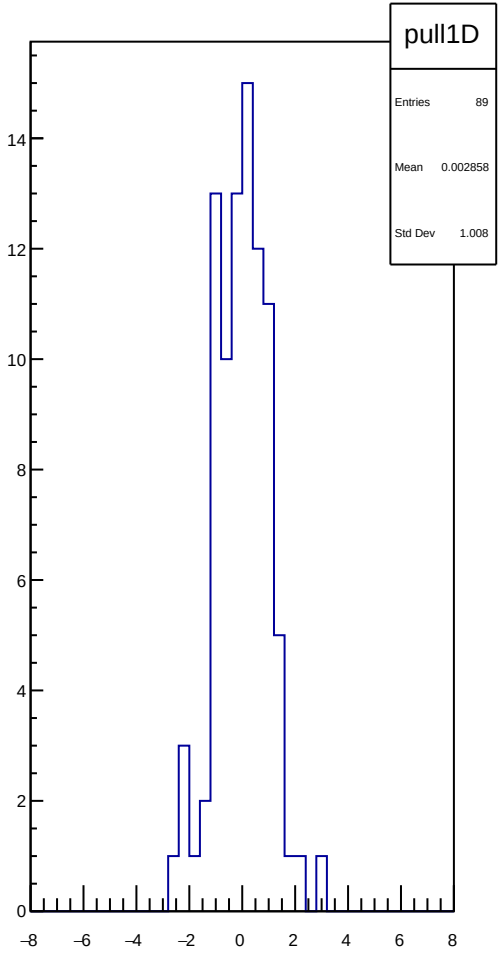

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4303 / 88
p0 916.3 ± 0.7065
1000
950
900
850
800

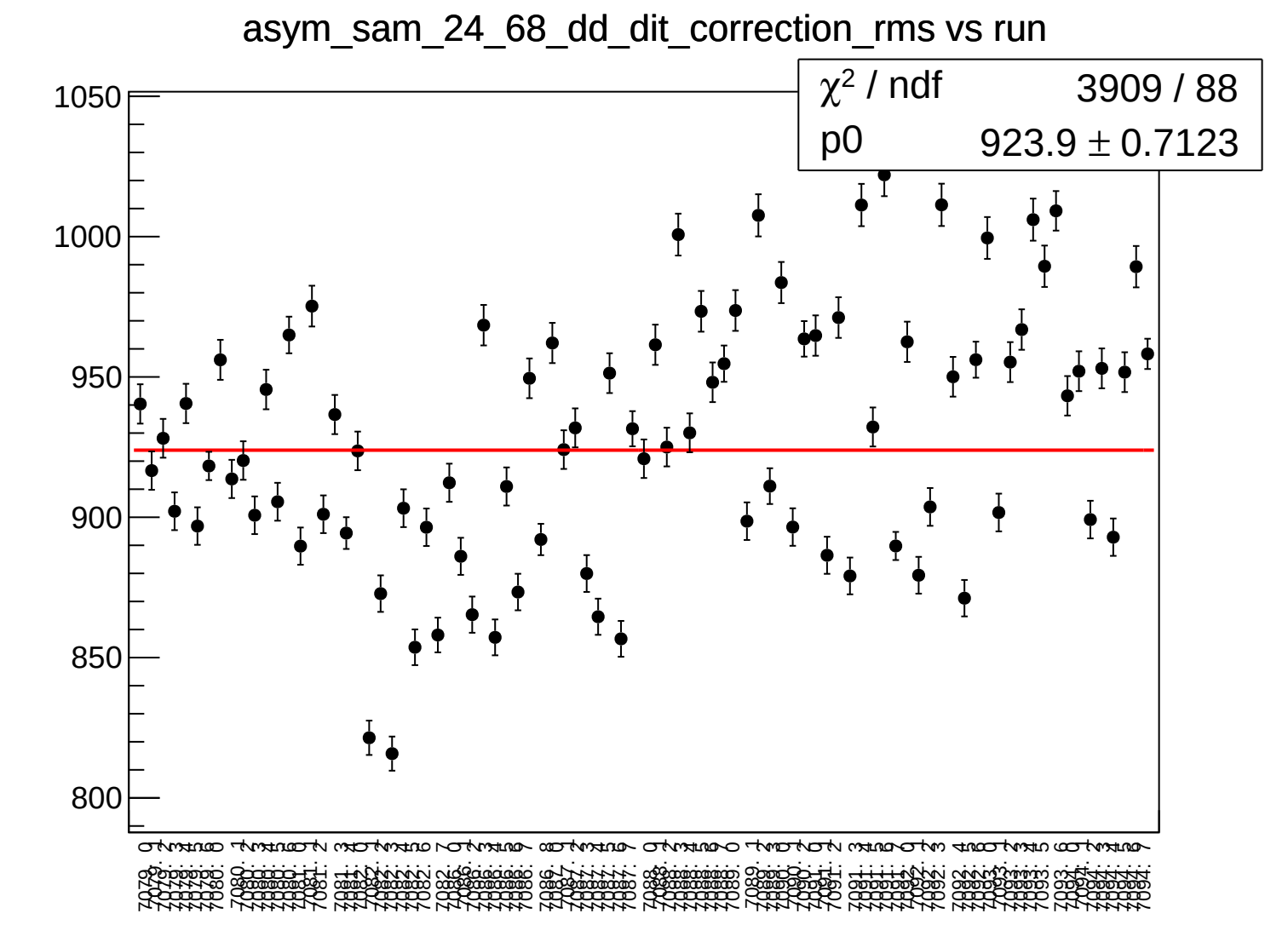

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 91.19 / 88
p0 −50.11 ± 96.25
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −25.34
Std Dev 0
3
2
1
0
−1

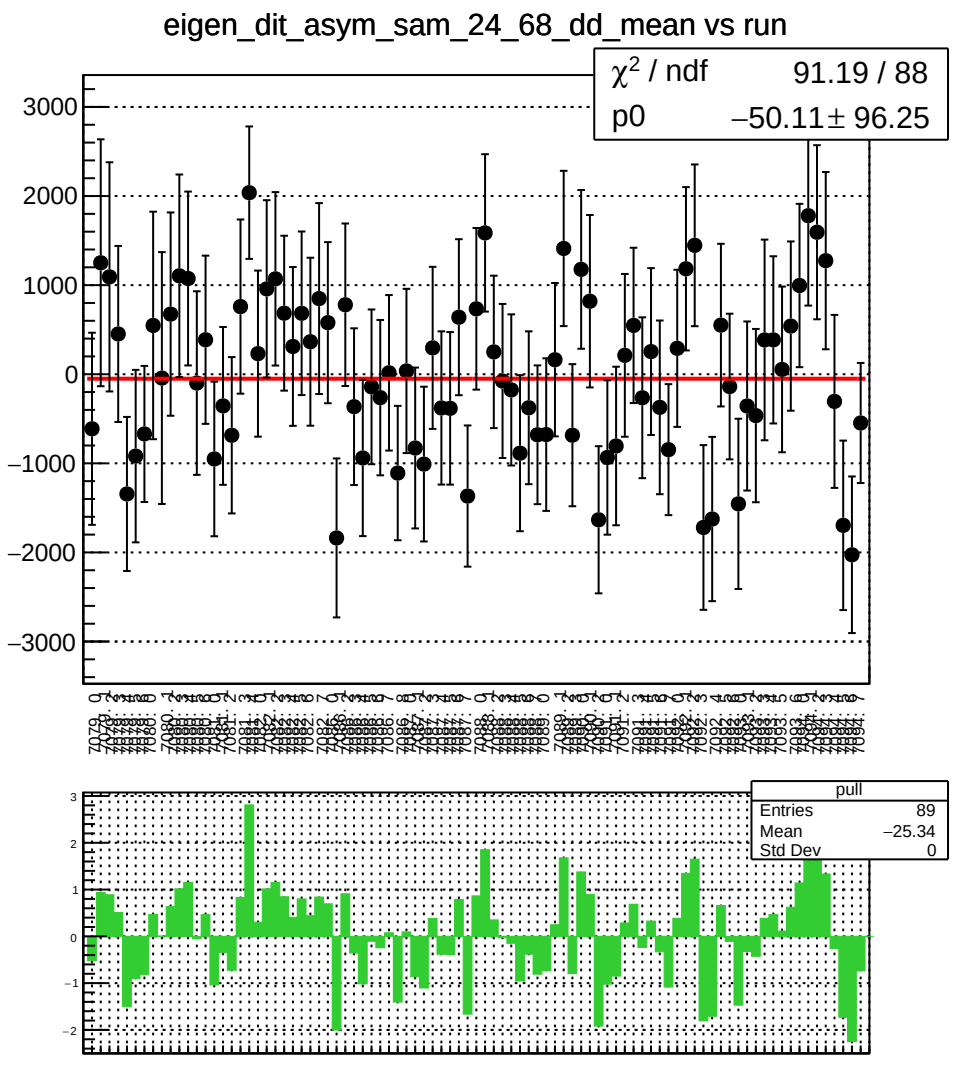

pull1D
Entries 89
Mean 0.0349
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

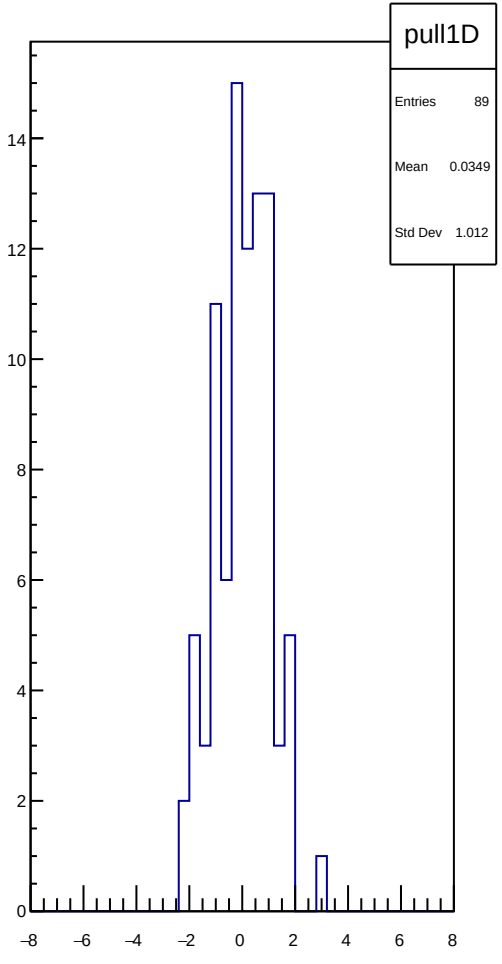

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.432e+04 / 88
p0 88 ± 0.06806
140
130
120
110
100
90
80

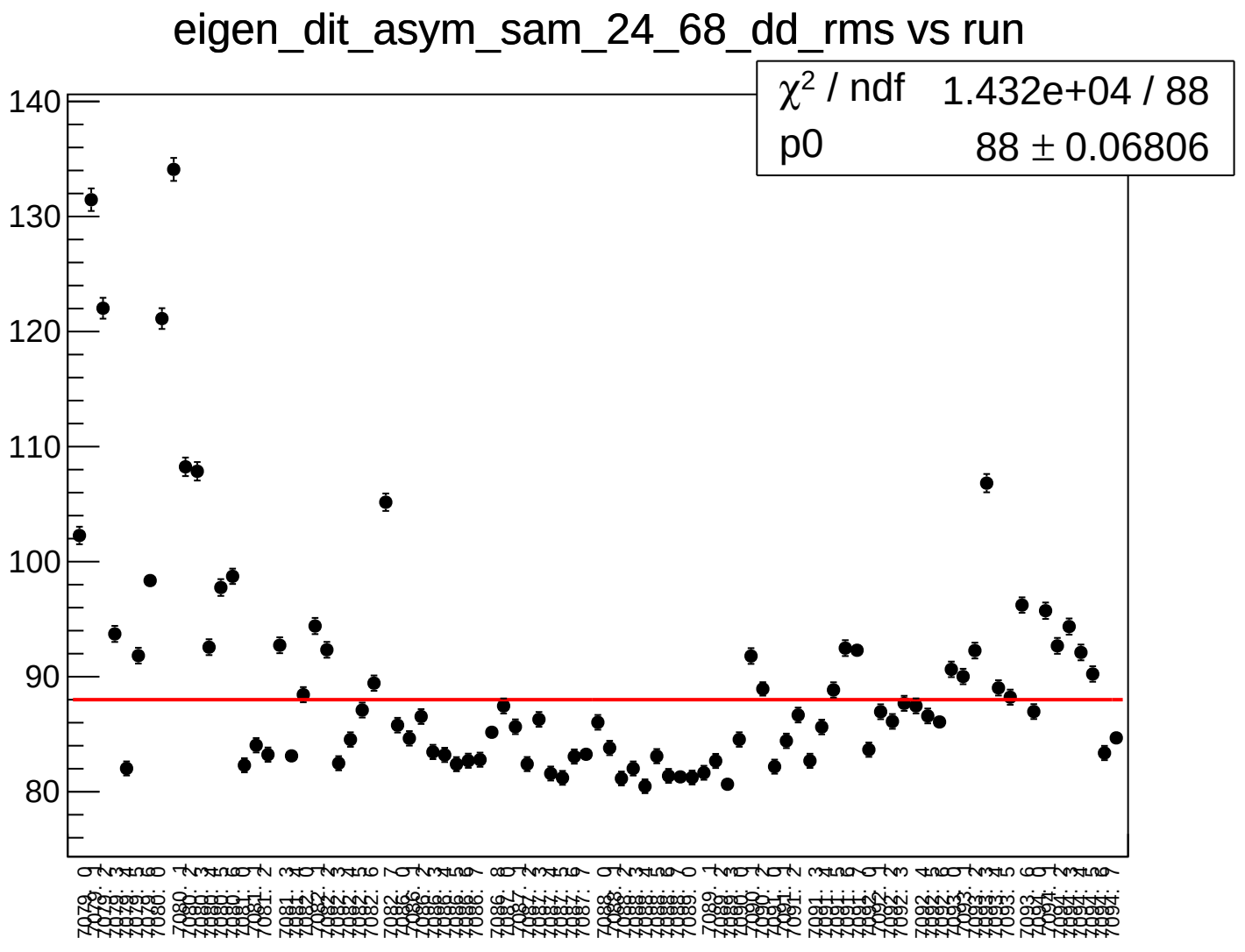

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 90.34 / 88
p0 −1991 ± 1007
pull
Entries 89
Mean 1382
Std Dev 0

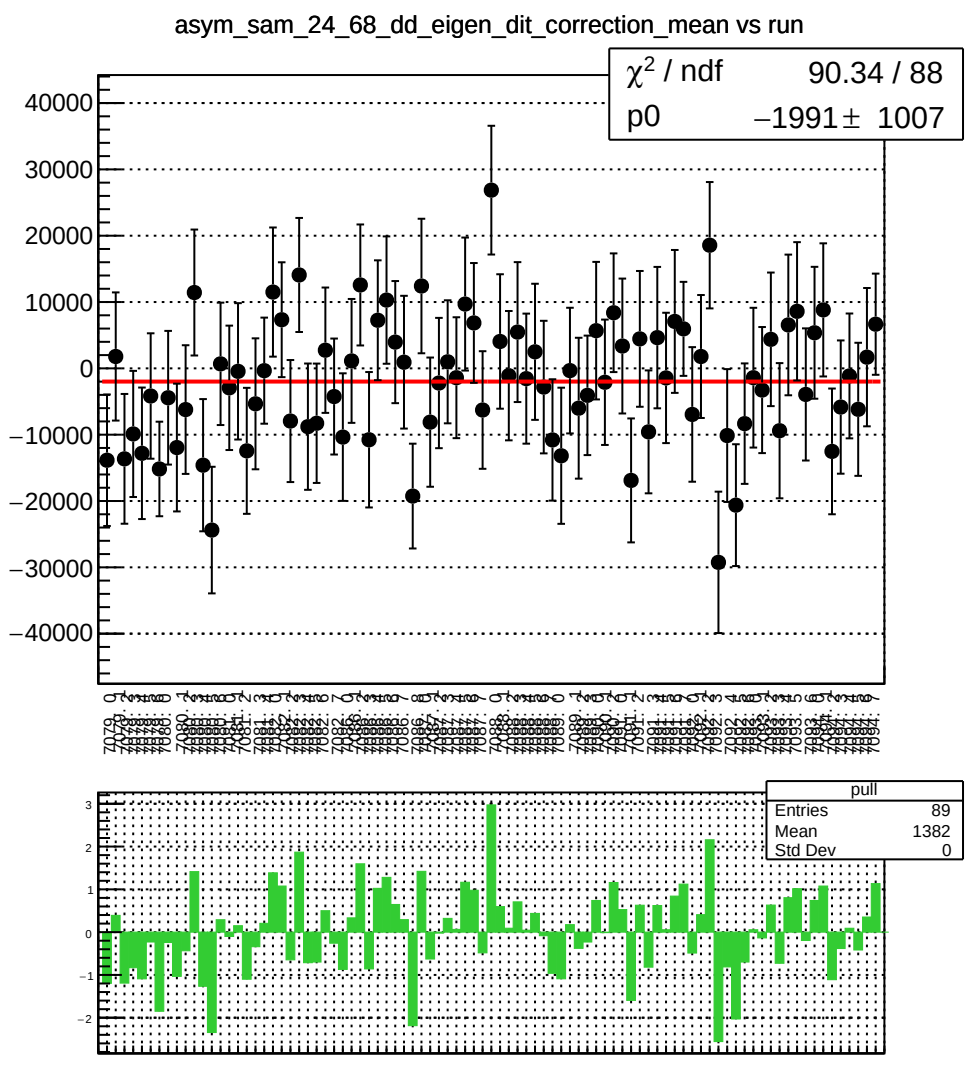

pull1D
Entries 89
Mean 0.002858
Std Dev 1.008

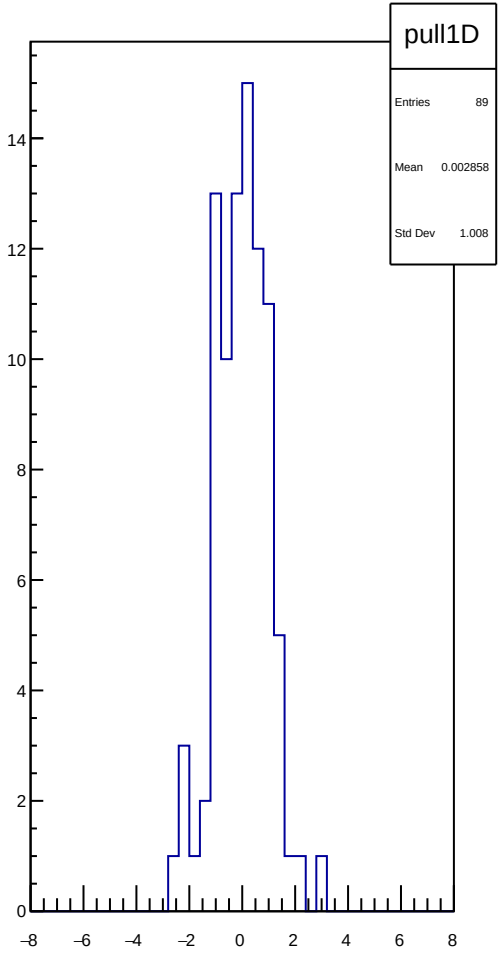

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 3909 / 88
p0 923.9 ± 0.7123
1050
1000
950
900
850
800

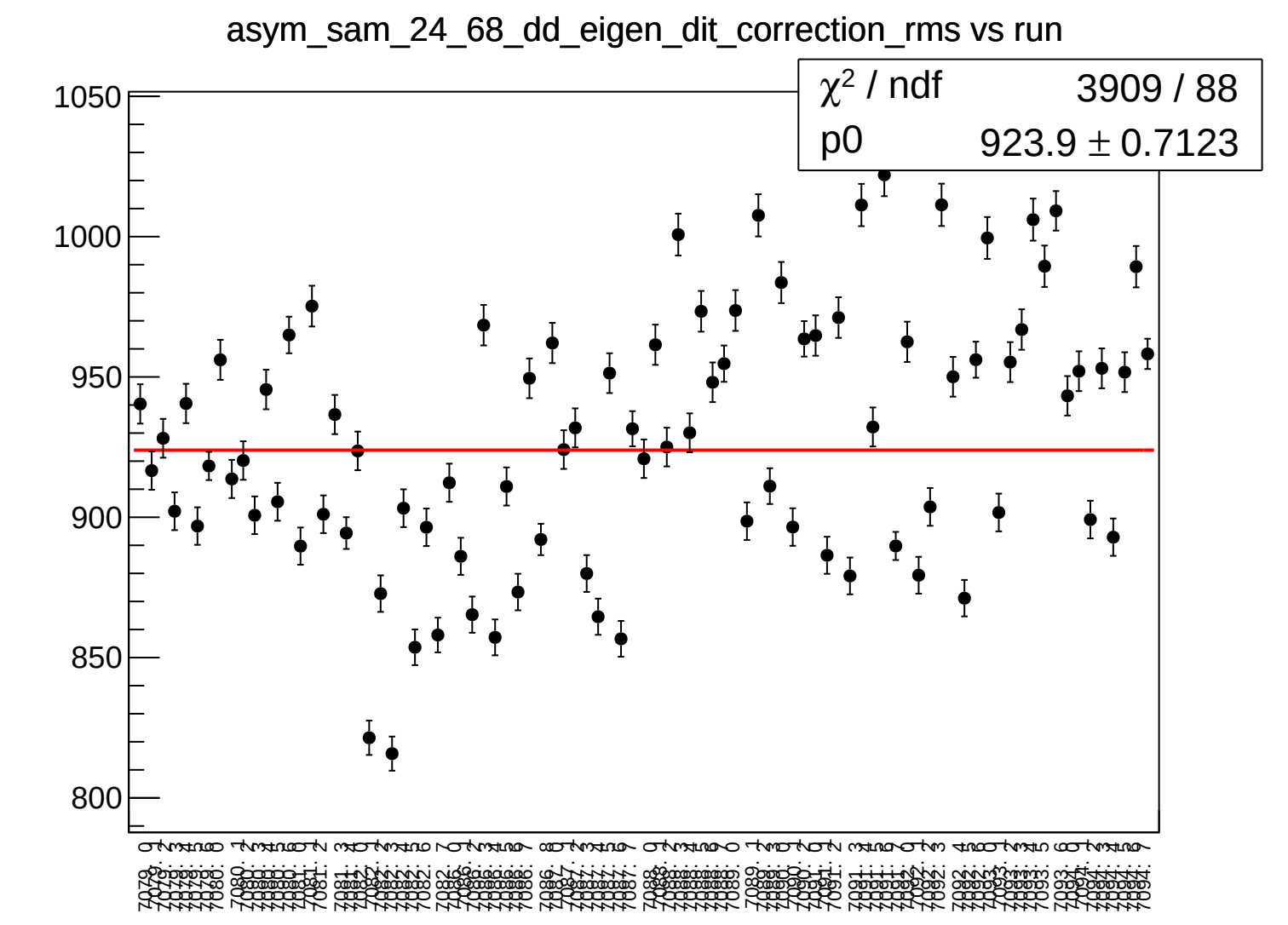

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 91.19 / 88
p0 −50.11± 96.25
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −25.34
Std Dev 0
3
2
1
0
−1

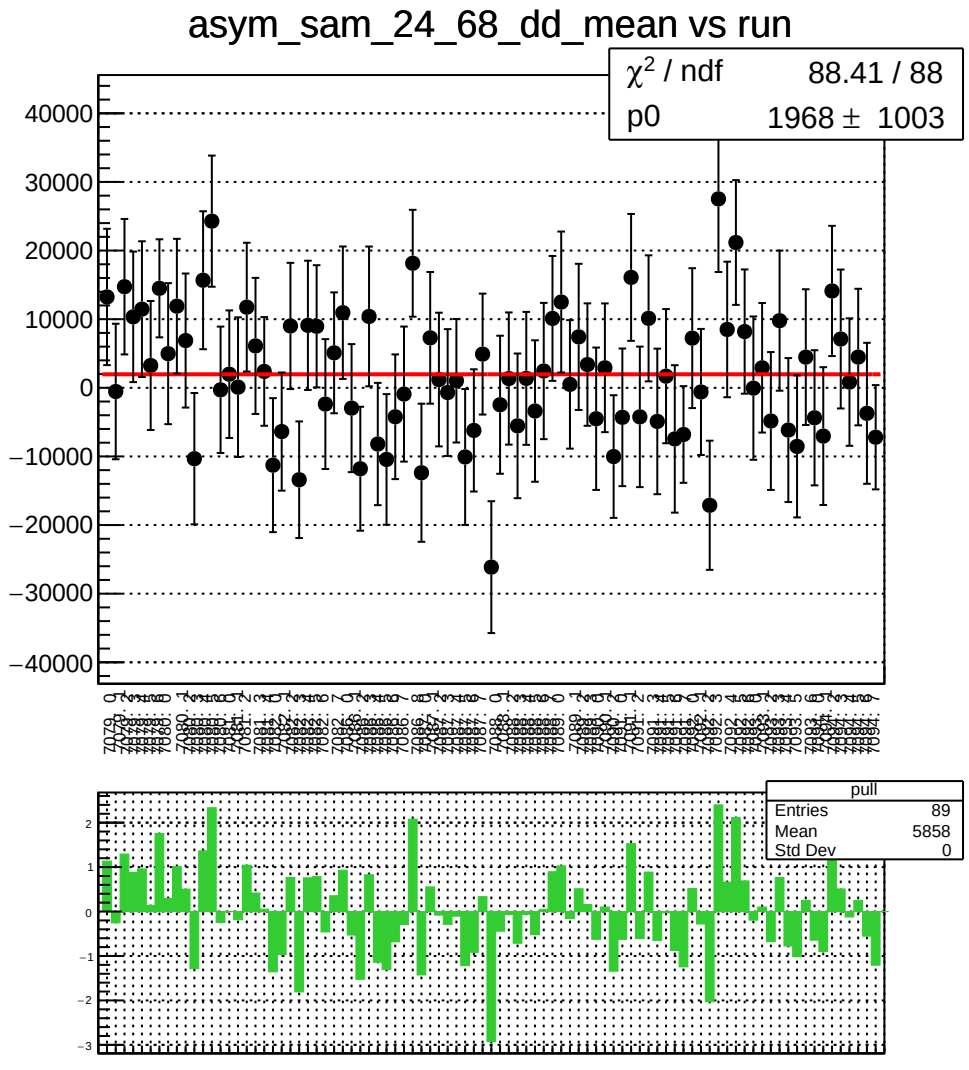

pull1D
Entries 89
Mean 0.0349
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

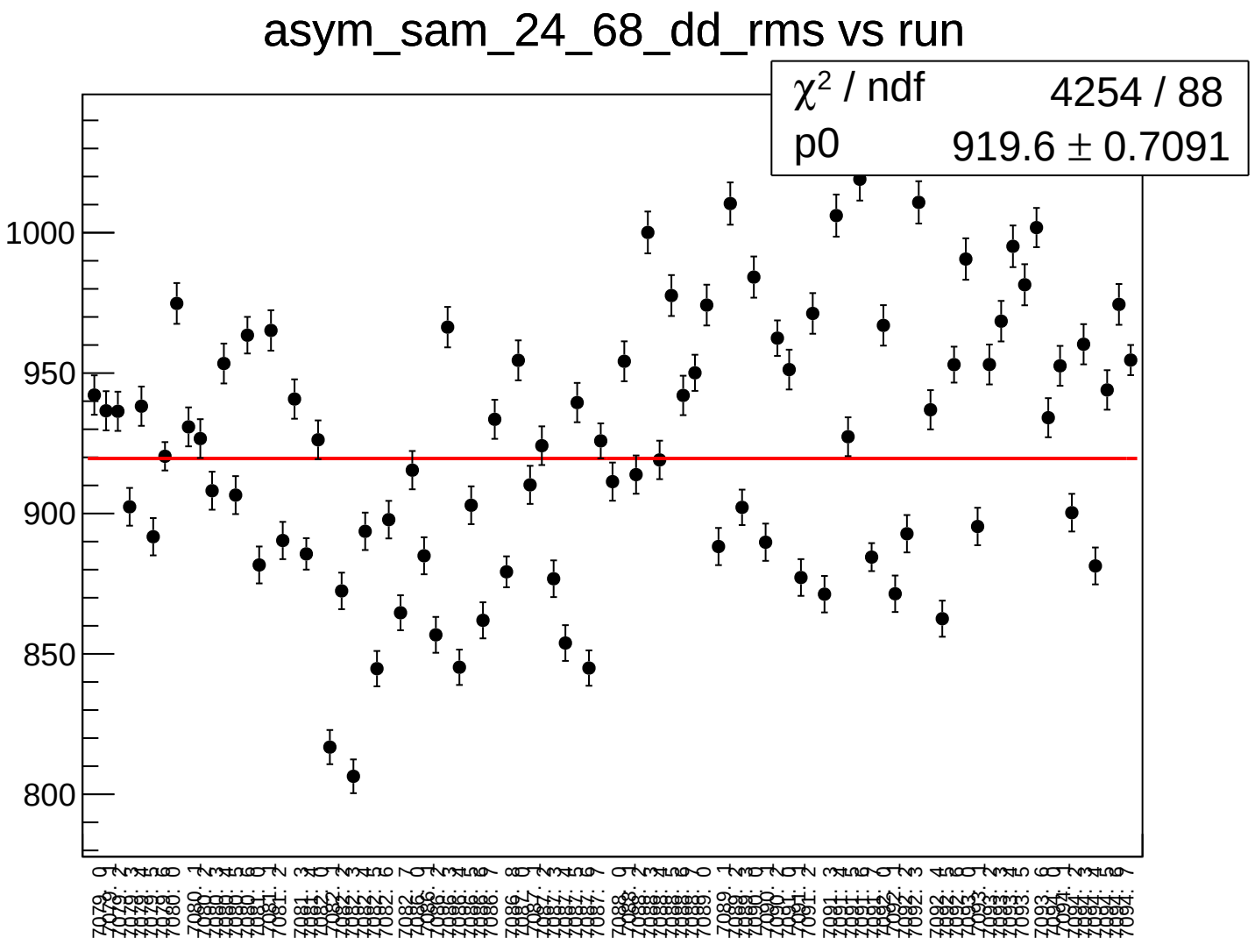

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.432e+04 / 88
p0 88 ± 0.06806
140
130
120
110
100
90
80

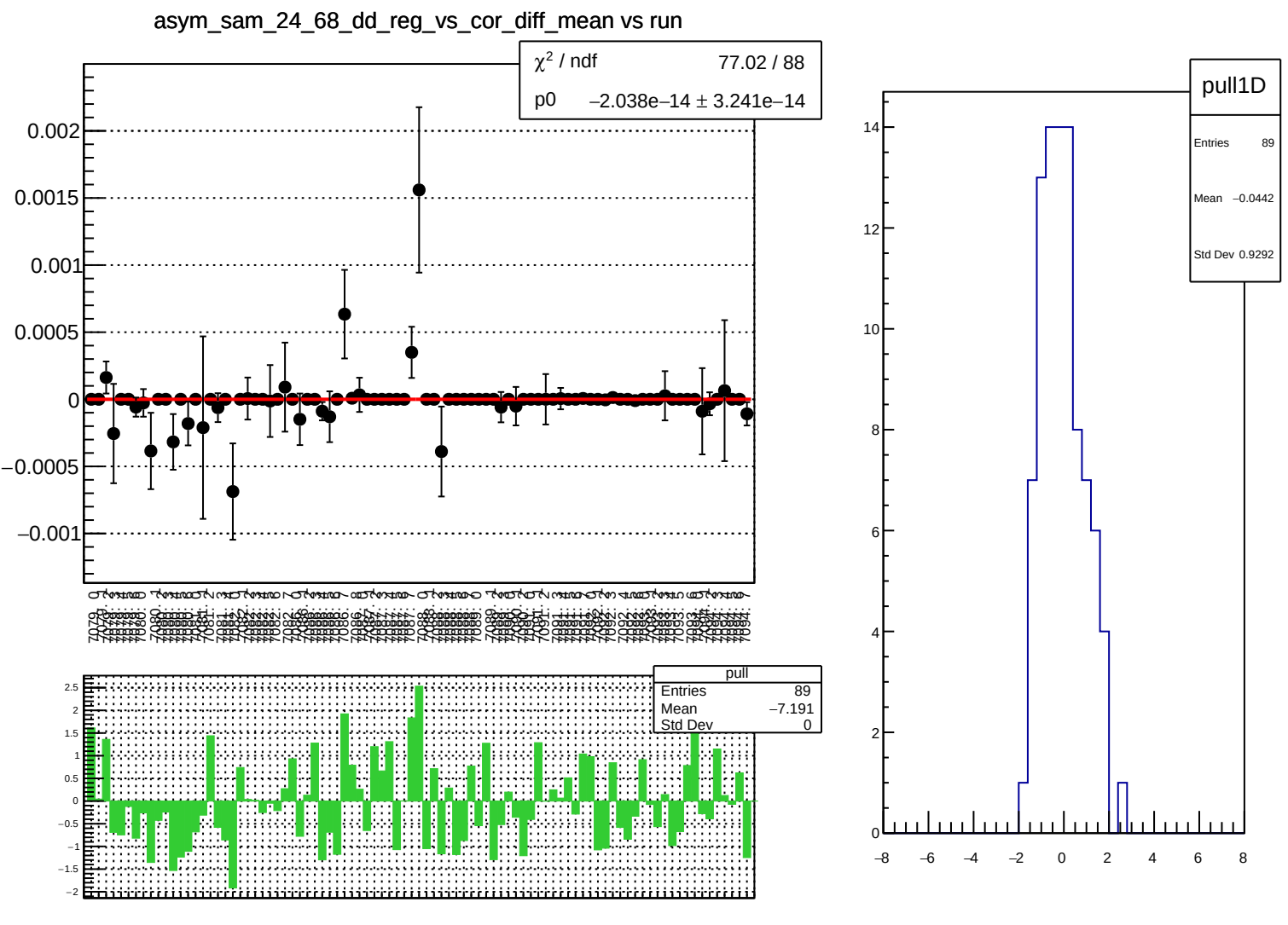

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.34 / 88
p0 −1991 ± 1007
pull
Entries 89
Mean 1382
Std Dev 0

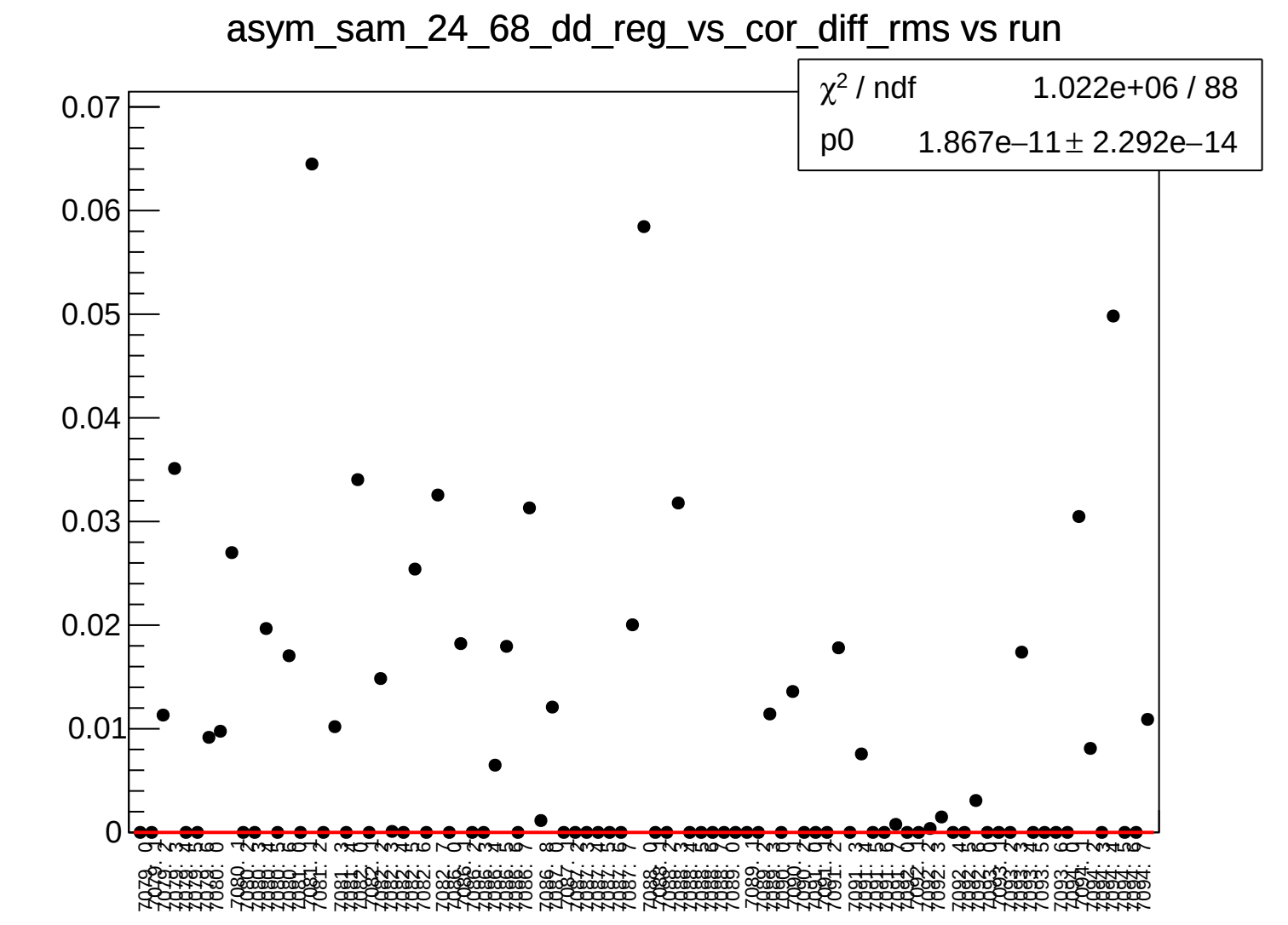

pull1D
Entries 89
Mean 0.002858
Std Dev 1.008

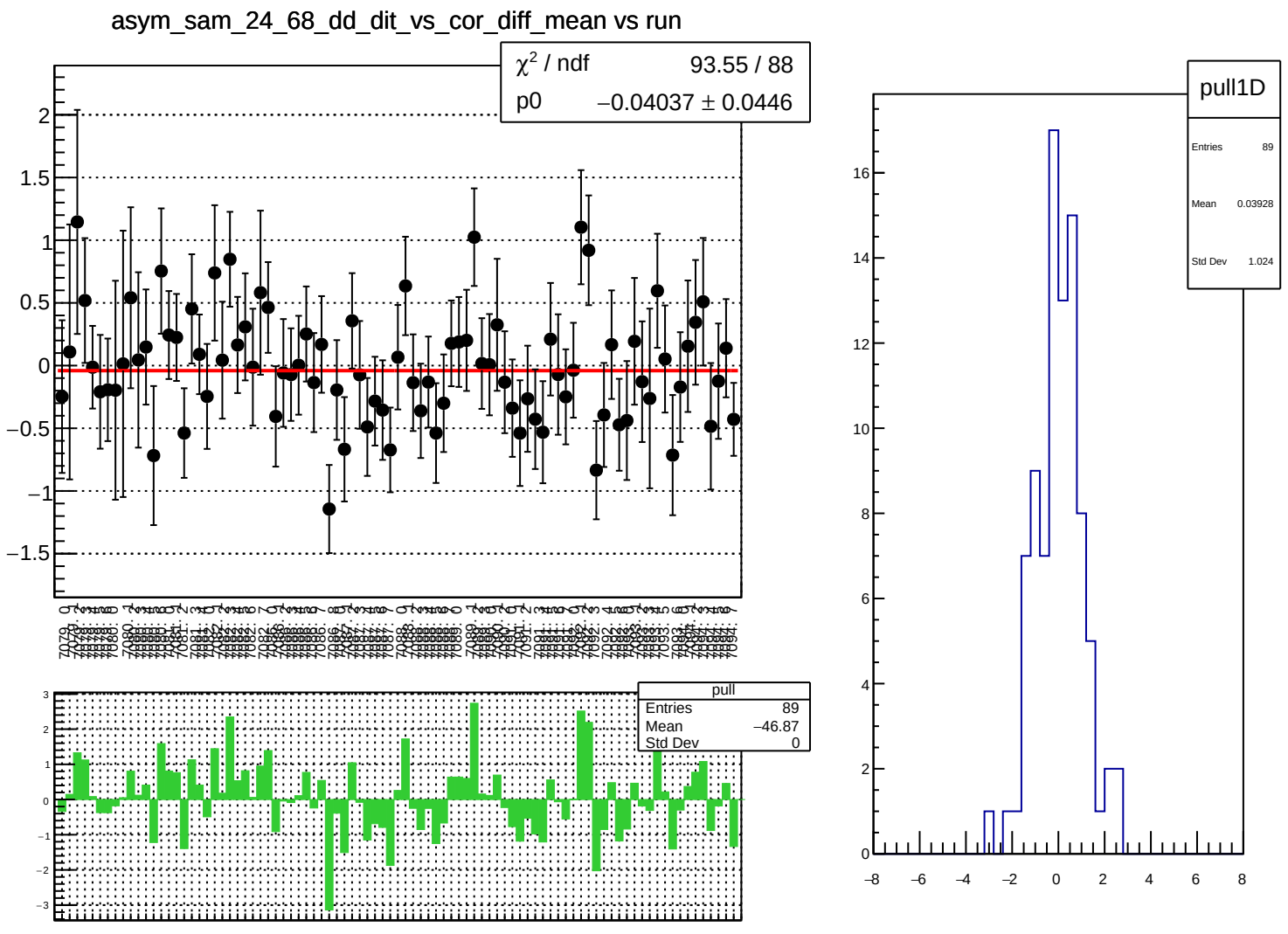

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 3909 / 88
p0 923.9 ± 0.7123
1050
1000
950
900
850
800

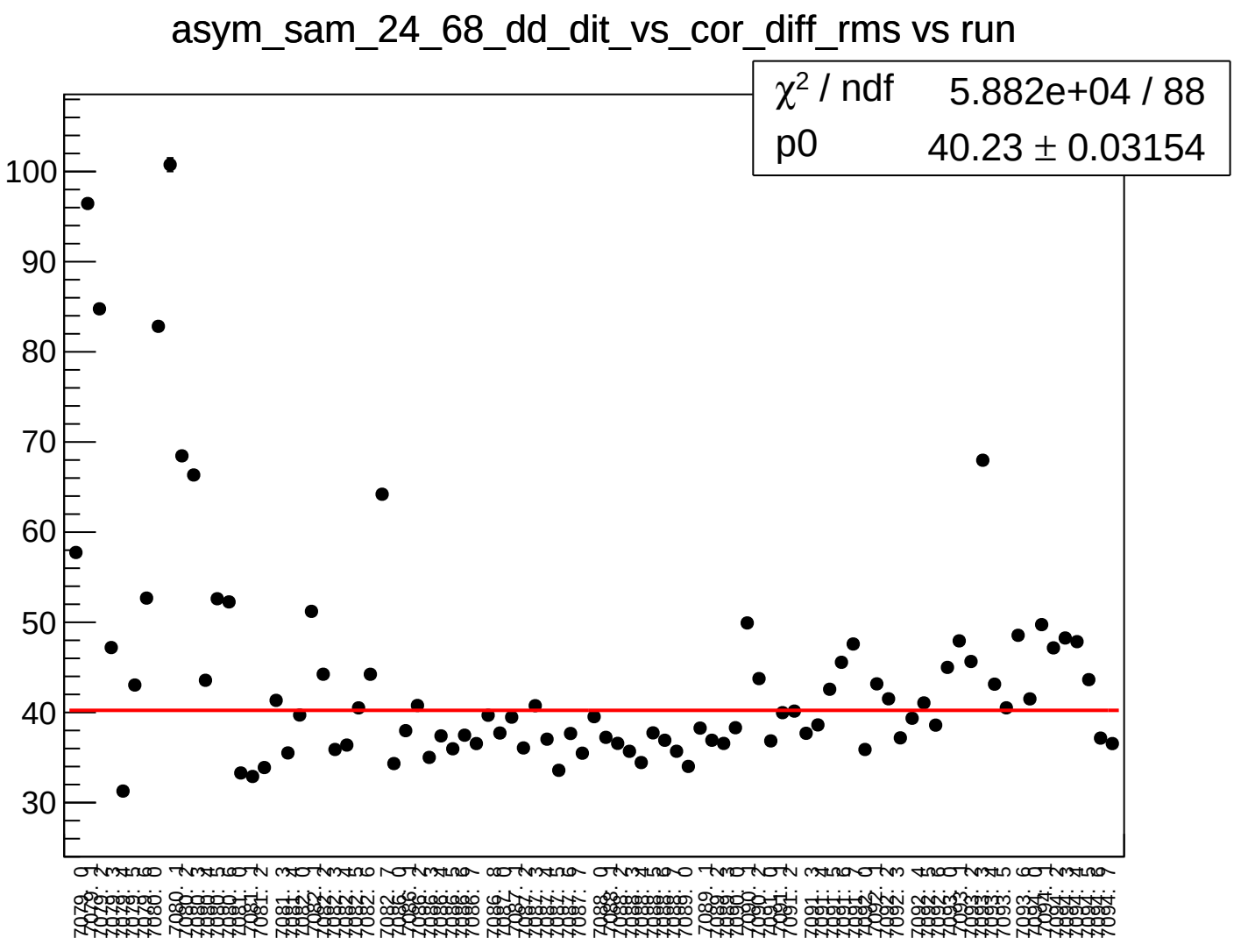

asym_sam_24_68_dd_mean vs run
χ² / ndf 88.41 / 88
p0 1968 ± 1003
pull
Entries 89
Mean 5858
Std Dev 0
pull1D
Entries 89
Mean −0.0007031
Std Dev 0.9967

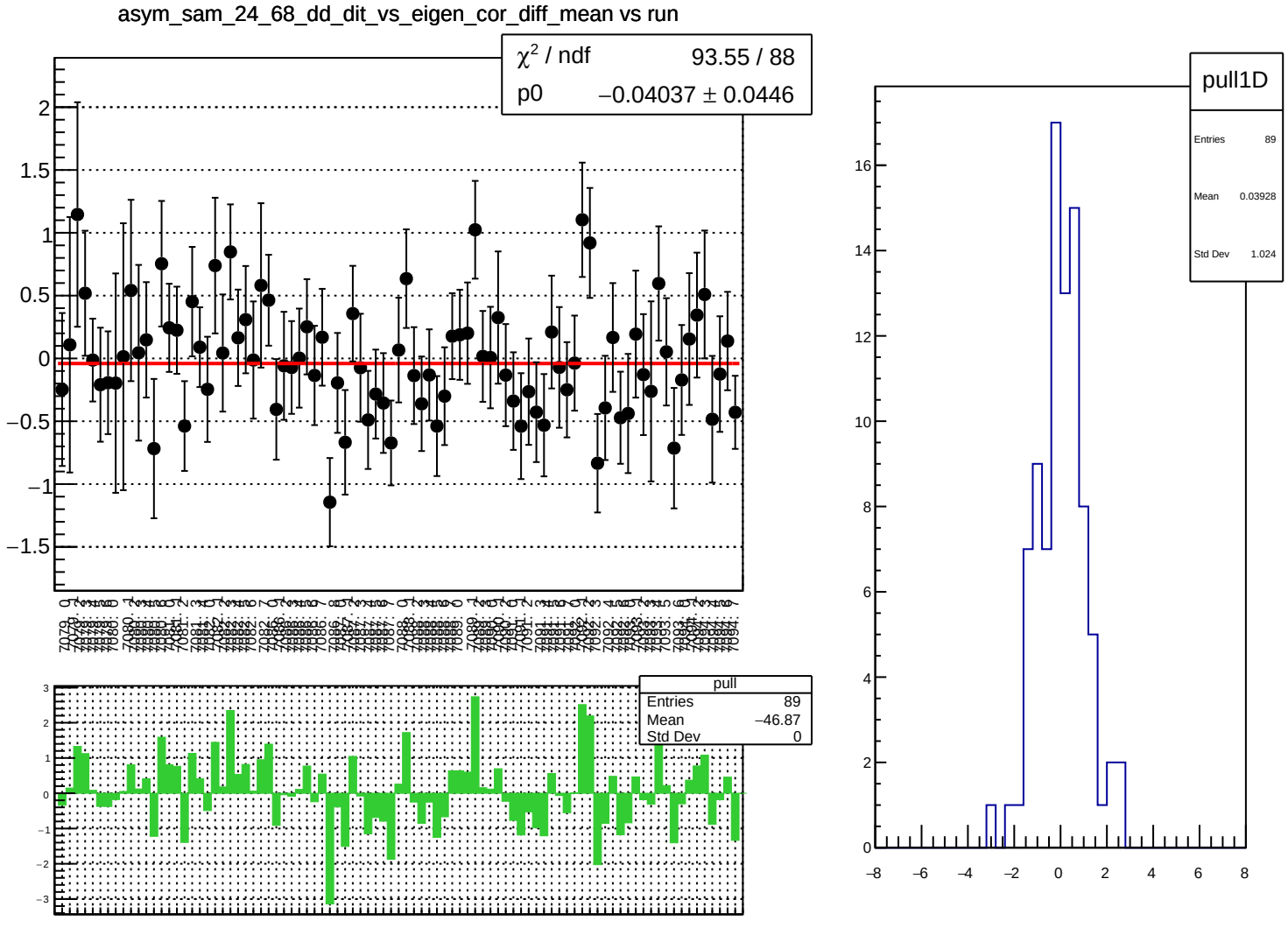

asym_sam_24_68_dd_rms vs run
χ² / ndf 4254 / 88
p0 919.6 ± 0.7091
1000
950
900
850
800

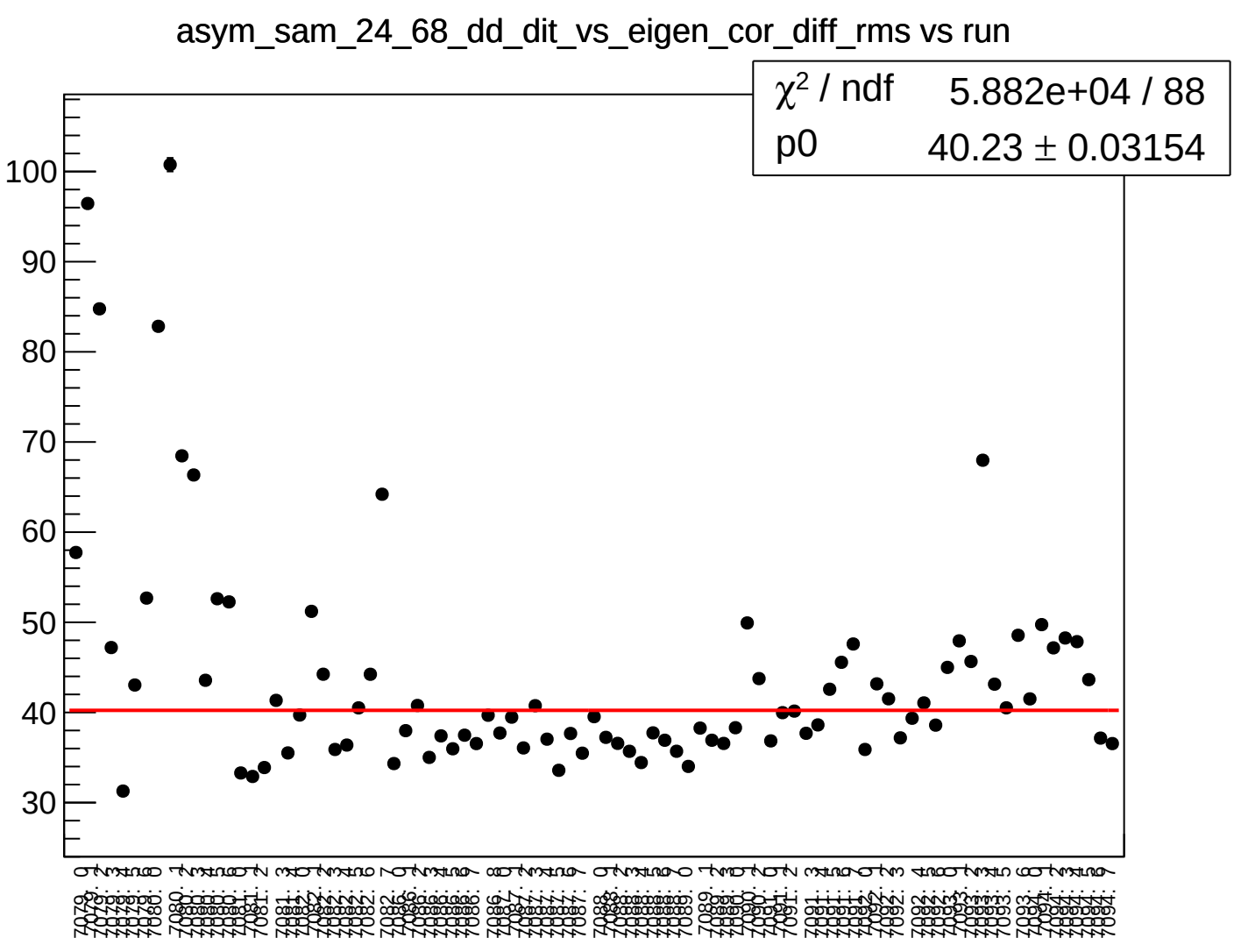

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.02 / 88
p0 −2.038e−14 ± 3.241e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −7.191
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.0442
Std Dev 0.9292
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

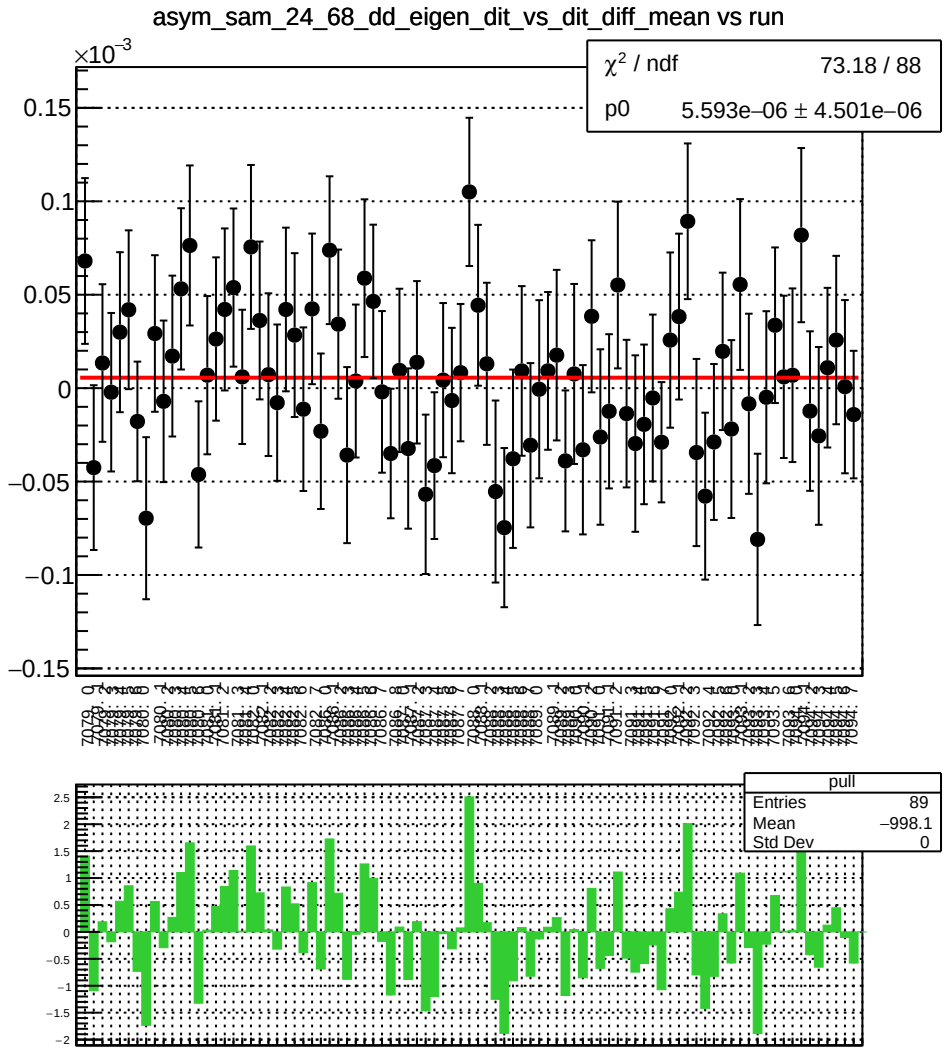

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 88
p0 1.867e−11 ± 2.292e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

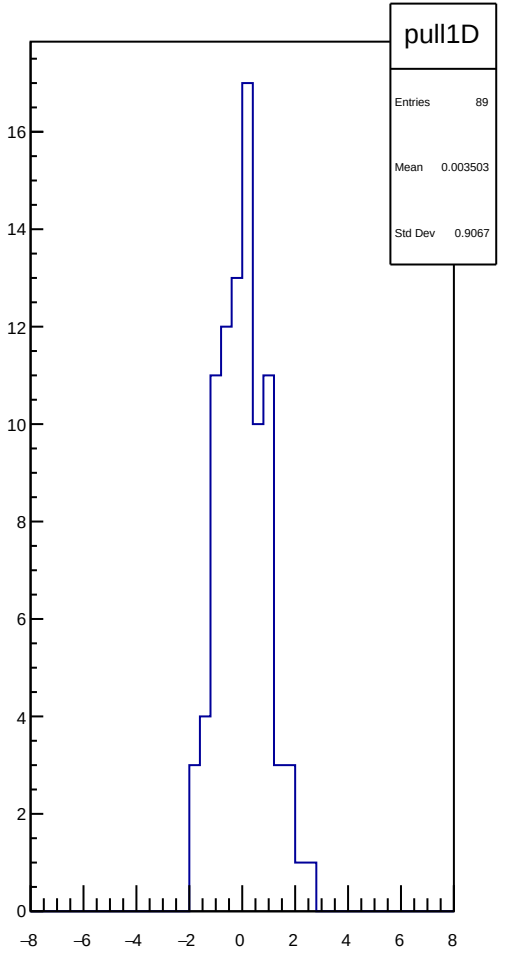

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.55 / 88
p0 −0.04037 ± 0.0446
pull
Entries 89
Mean −46.87
Std Dev 0
pull1D
Entries 89
Mean 0.03928
Std Dev 1.024

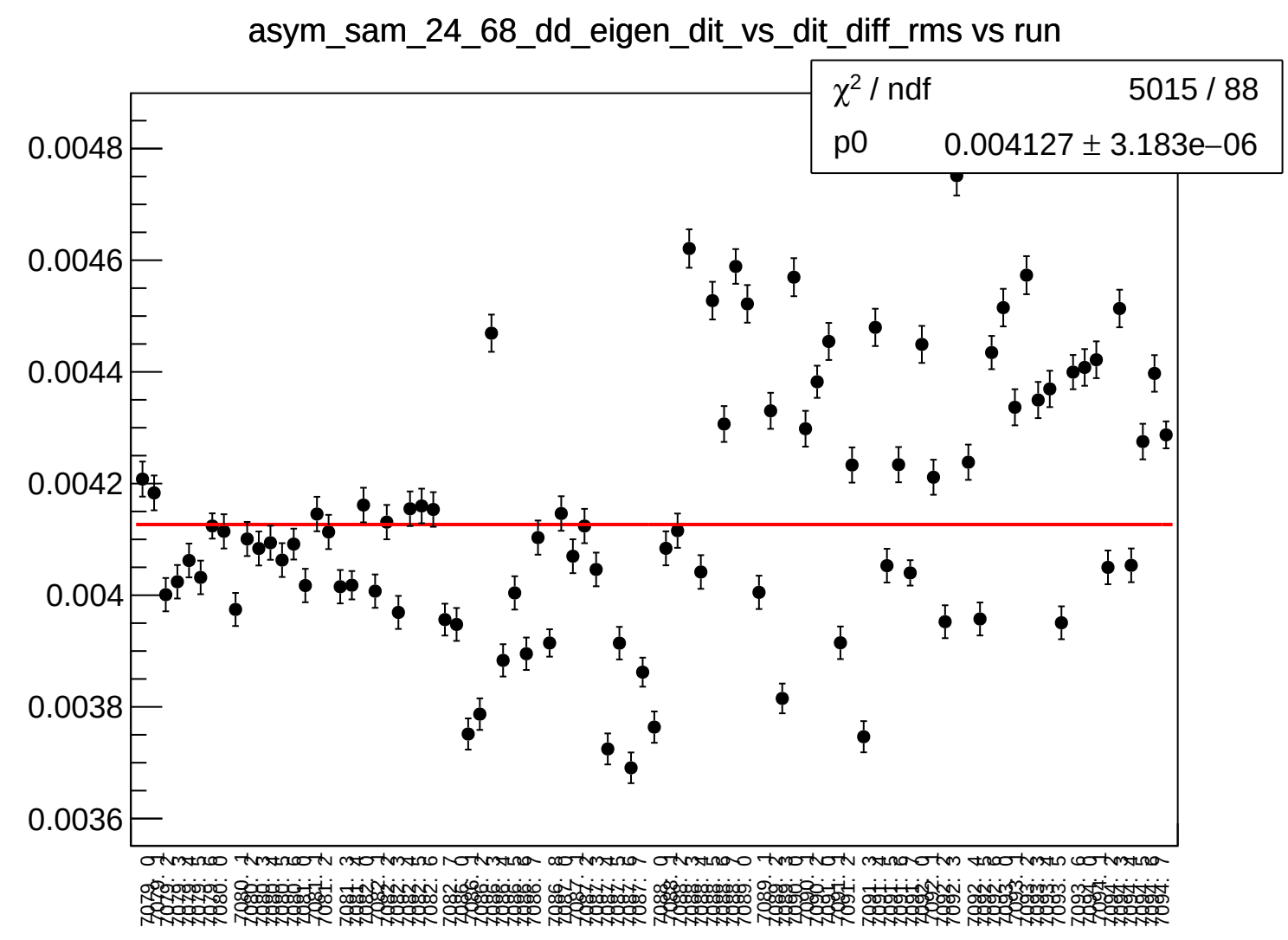

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.882e+04 / 88
p0 40.23 ± 0.03154
100
90
80
70
60
50
40
30

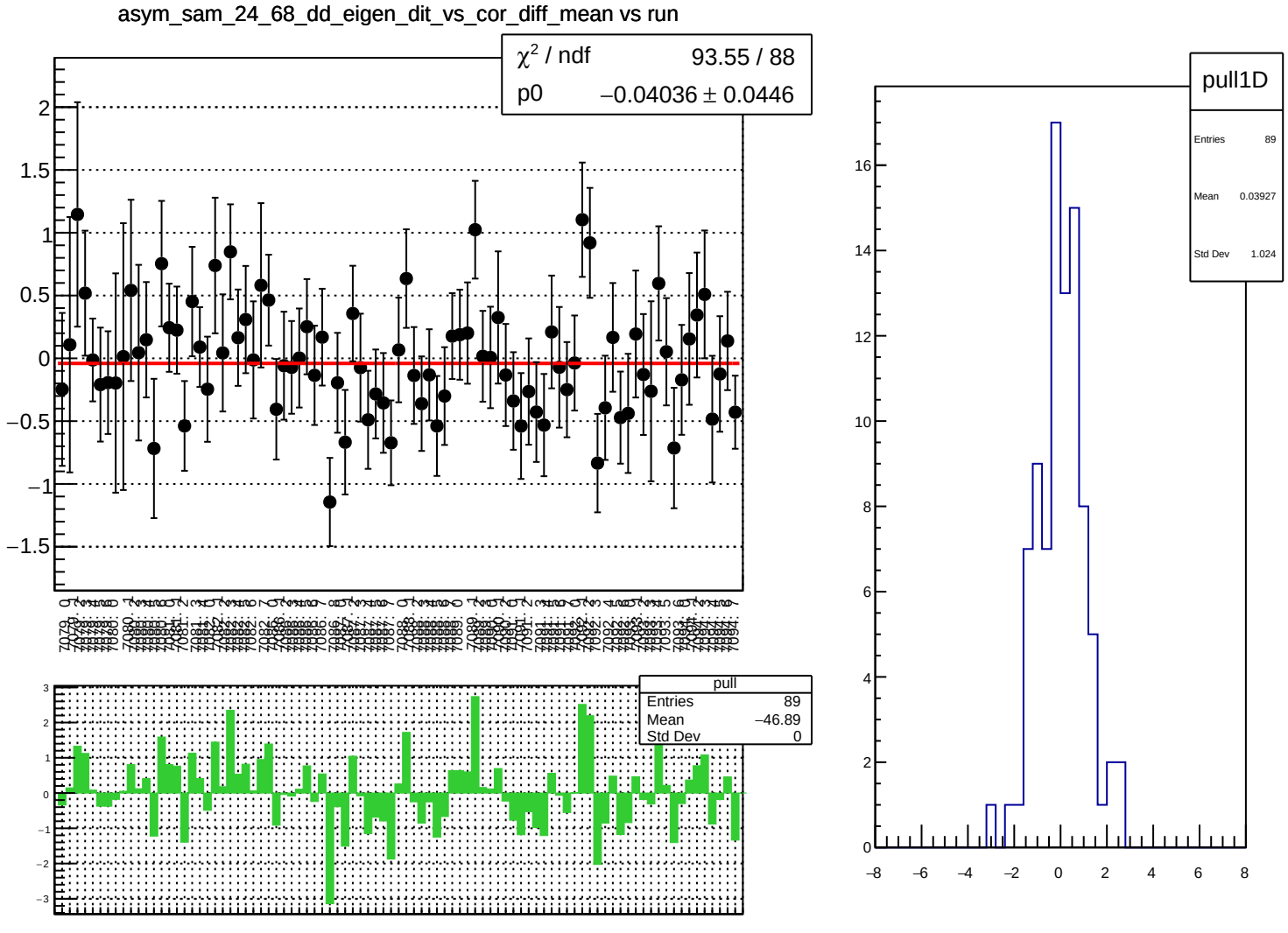

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.55 / 88
p0 −0.04037 ± 0.0446
pull
Entries 89
Mean −46.87
Std Dev 0
pull1D
Entries 89
Mean 0.03928
Std Dev 1.024

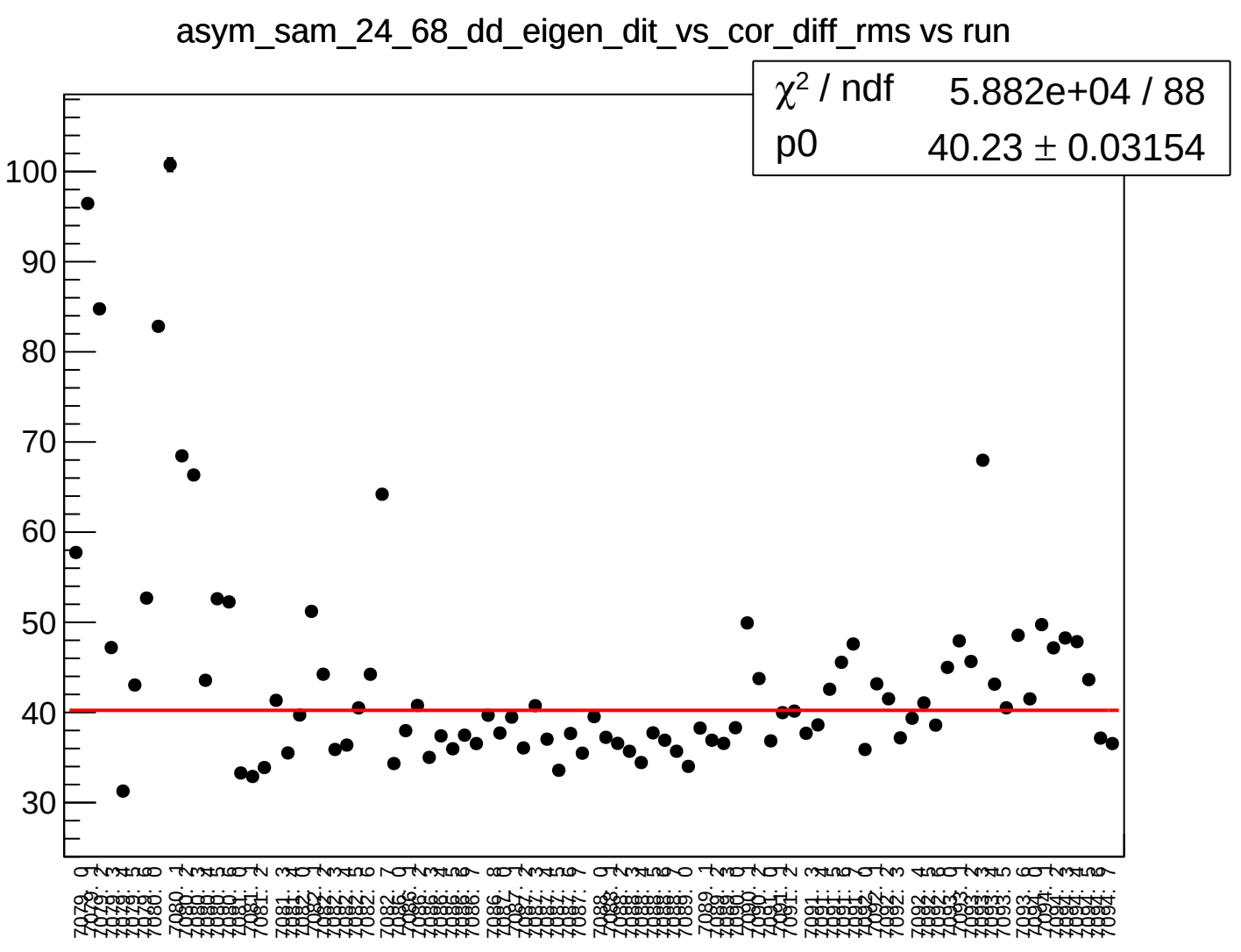

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.882e+04 / 88
p0 40.23 ± 0.03154
100
90
80
70
60
50
40
30

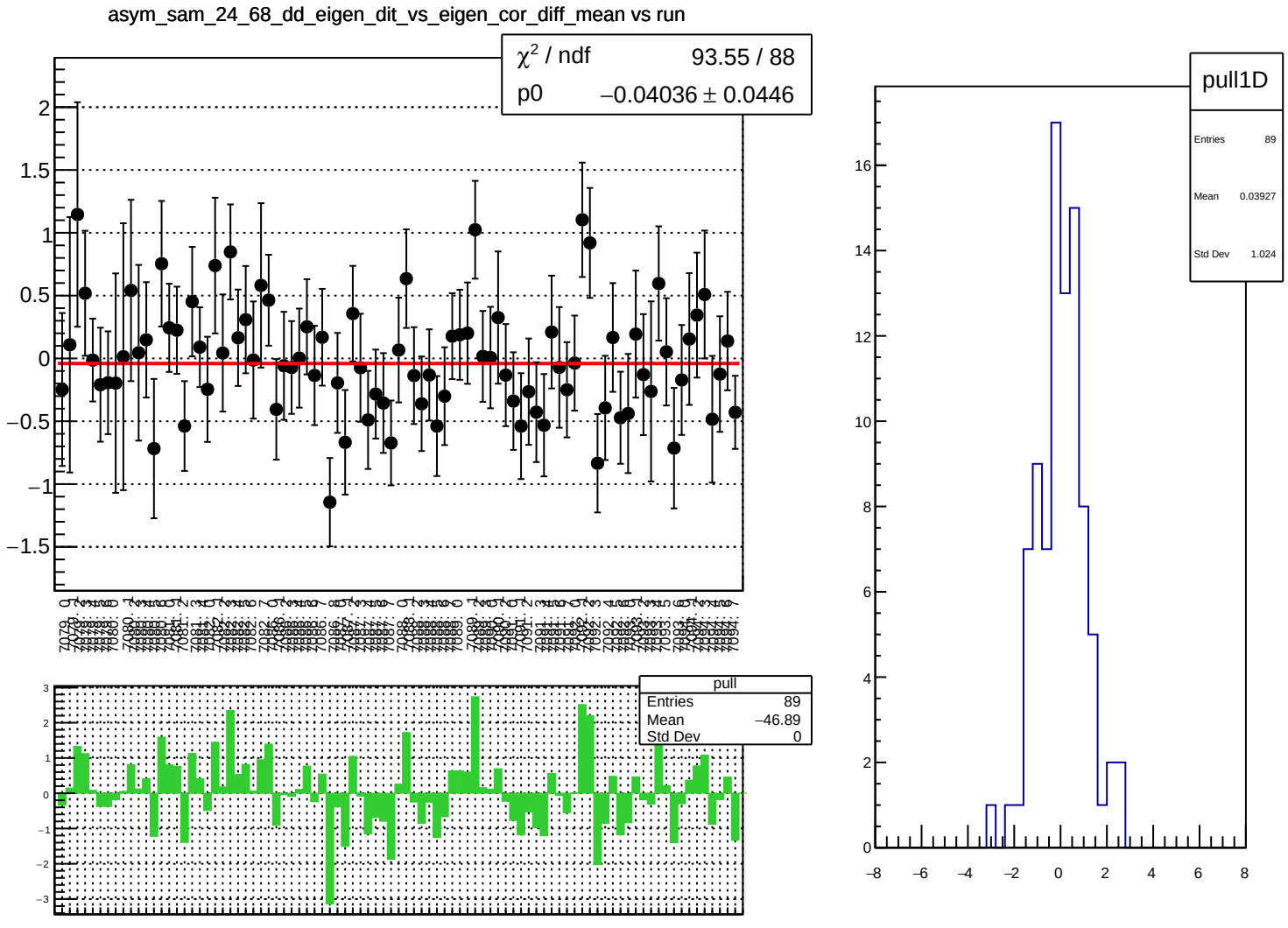

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.18 / 88
p0 5.593e−06 ± 4.501e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean −998.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

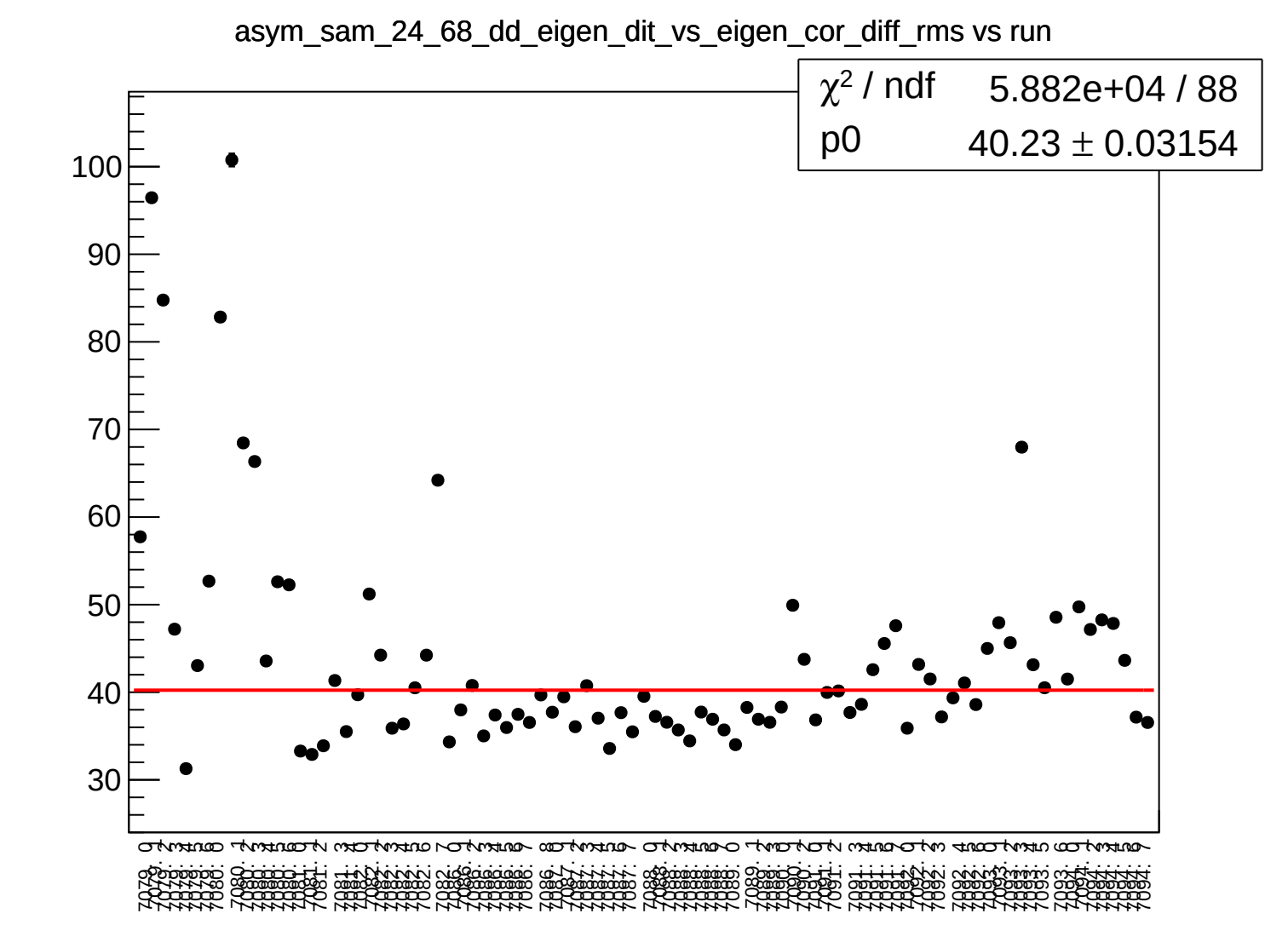

pull1D
Entries 89
Mean 0.003503
Std Dev 0.9067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

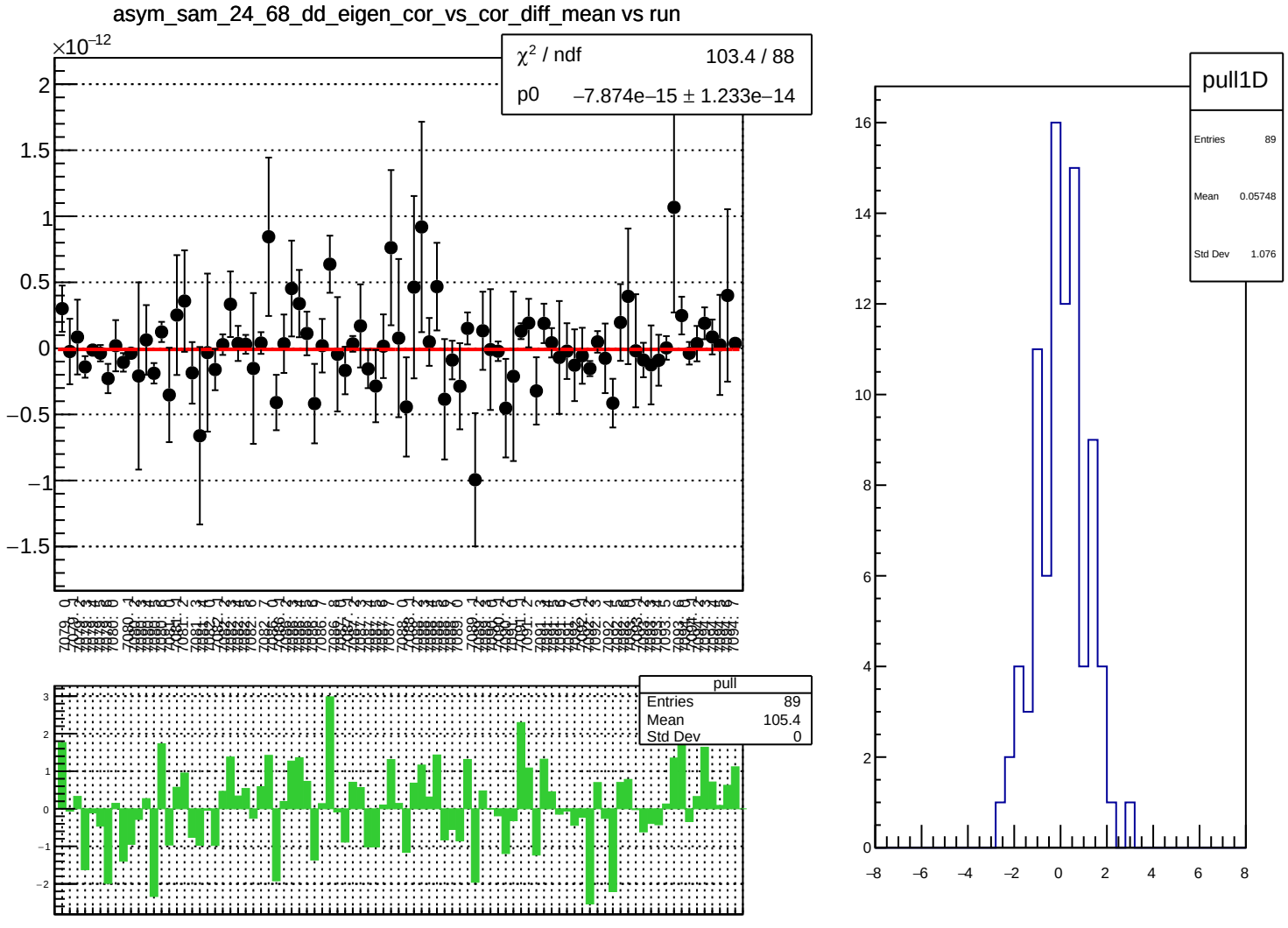

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5015 / 88
p0 0.004127 ± 3.183e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

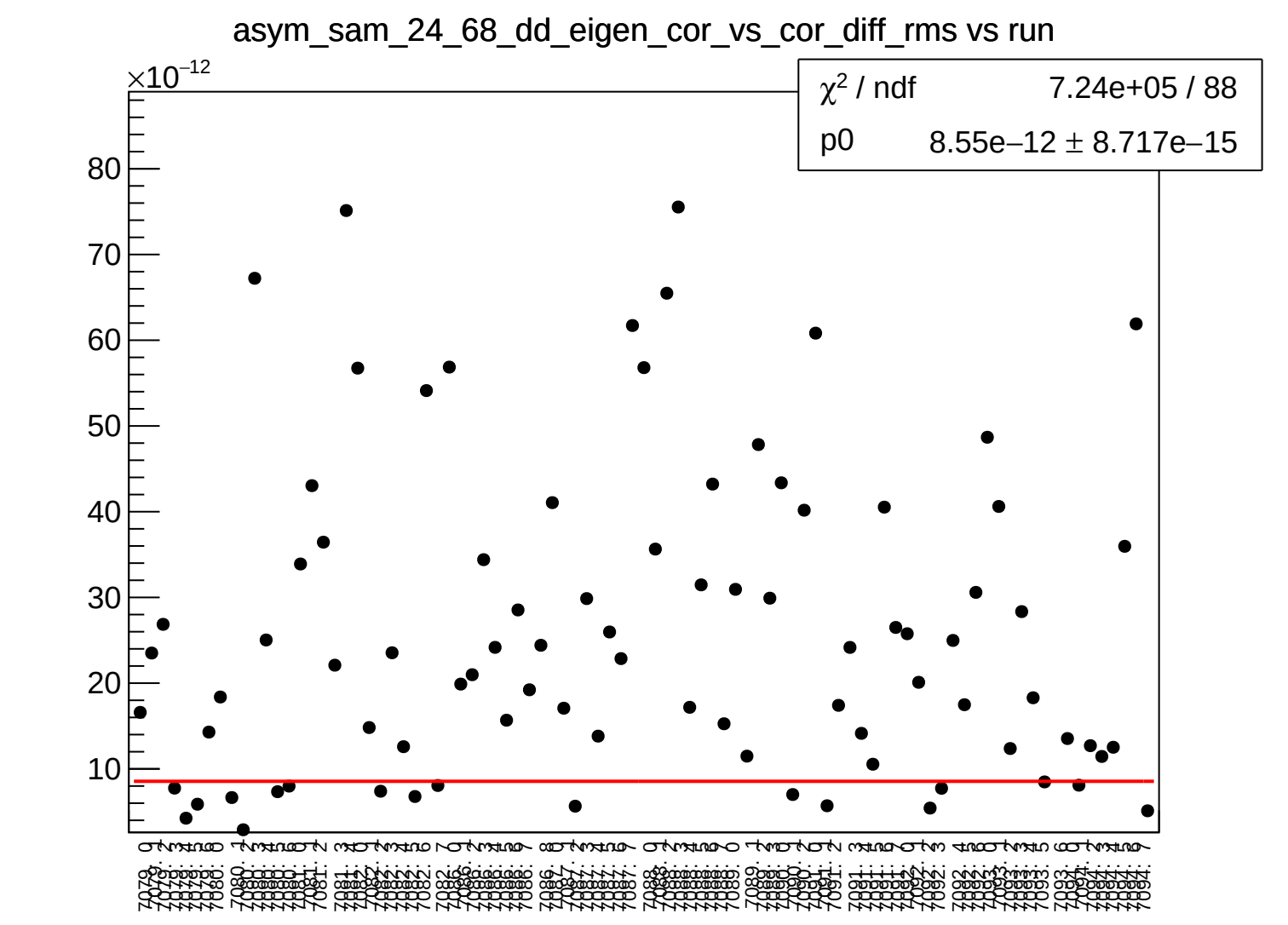

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 93.55 / 88
p0 −0.04036 ± 0.0446
pull
Entries 89
Mean −46.89
Std Dev 0
pull1D
Entries 89
Mean 0.03927
Std Dev 1.024

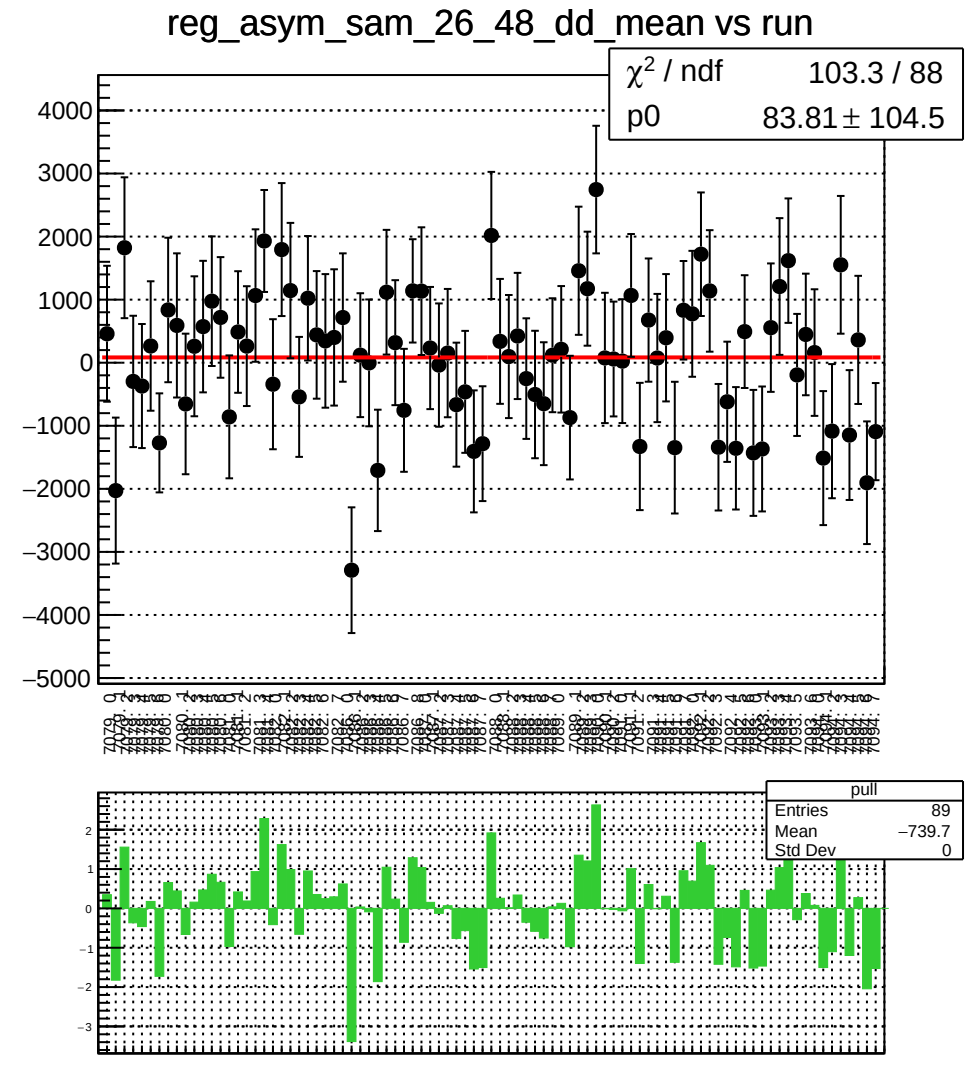

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.882e+04 / 88
p0 40.23 ± 0.03154
100
90
80
70
60
50
40
30

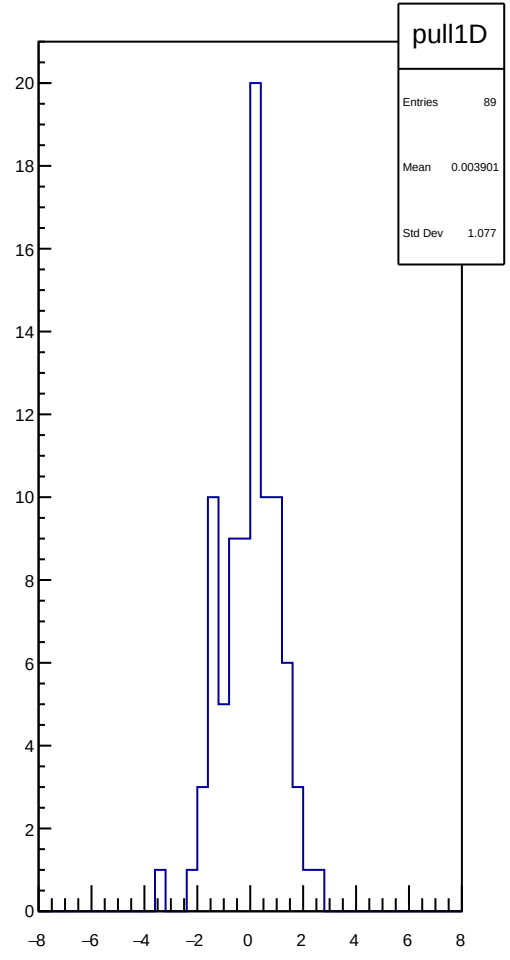

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.55 / 88
p0 −0.04036 ± 0.0446
pull
Entries 89
Mean −46.89
Std Dev 0
pull1D
Entries 89
Mean 0.03927
Std Dev 1.024

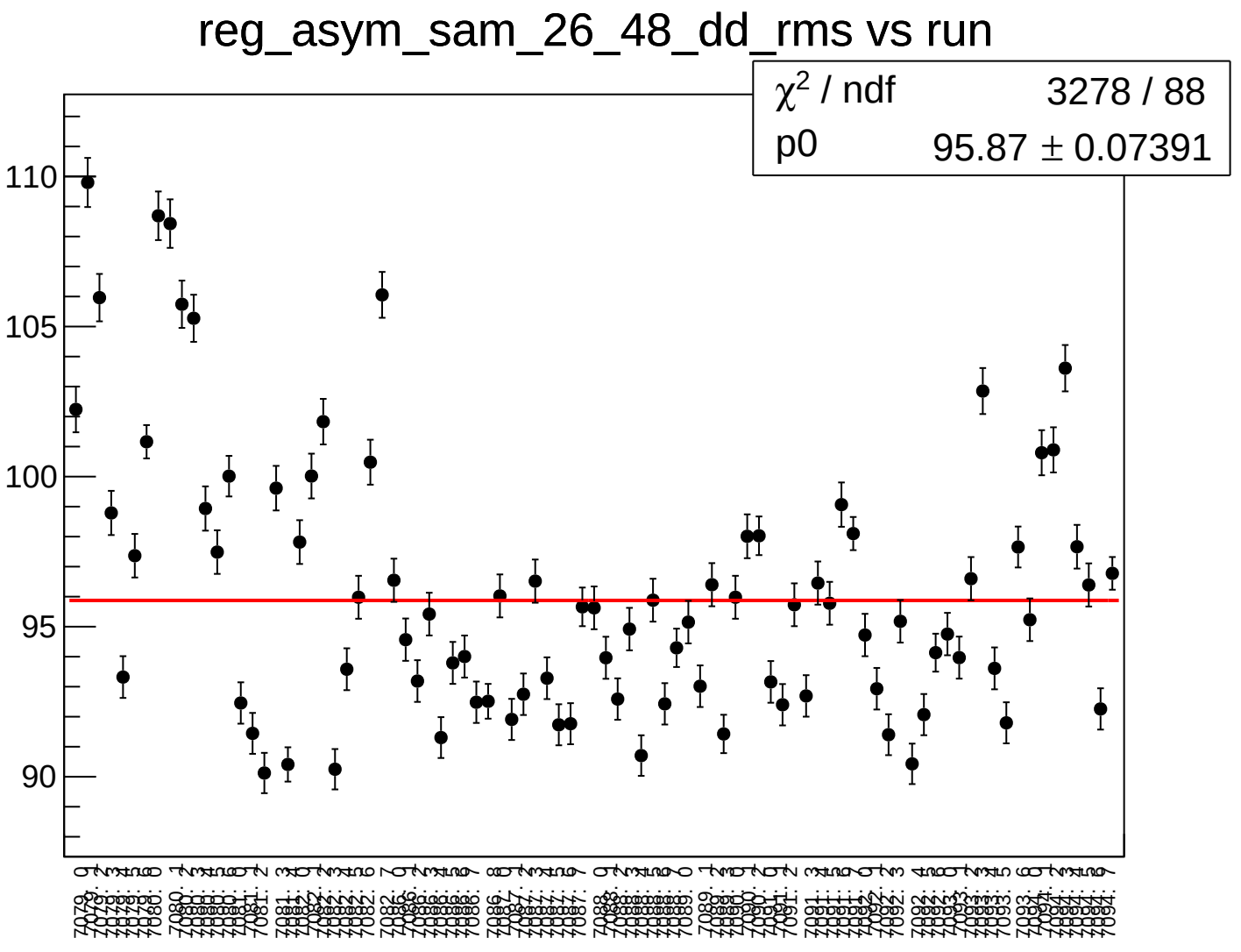

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.882e+04 / 88
p0 40.23 ± 0.03154
100
90
80
70
60
50
40
30

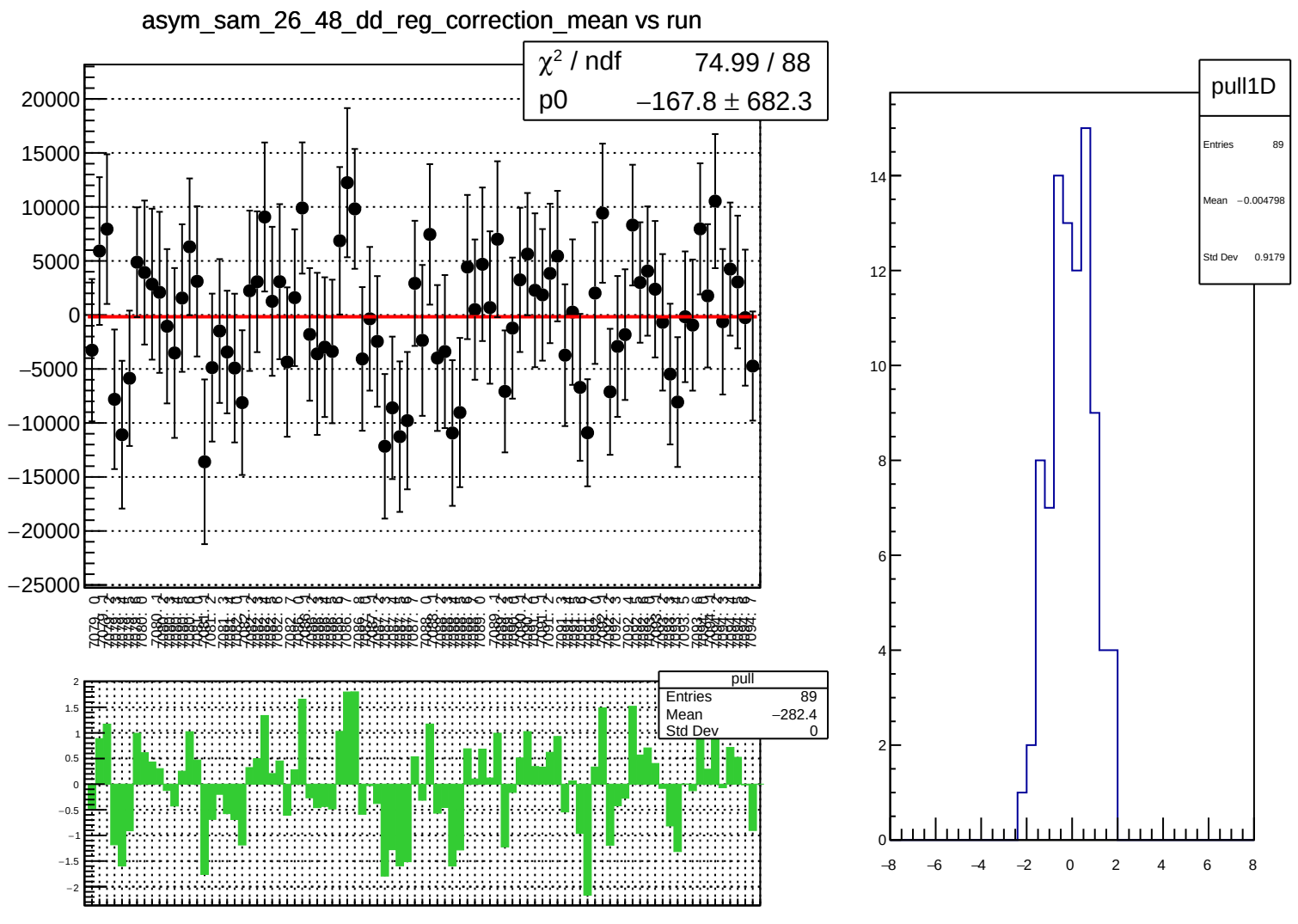

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.4 / 88
p0 −7.874e−15 ± 1.233e−14
pull
Entries 89
Mean 105.4
Std Dev 0
pull1D
Entries 89
Mean 0.05748
Std Dev 1.076

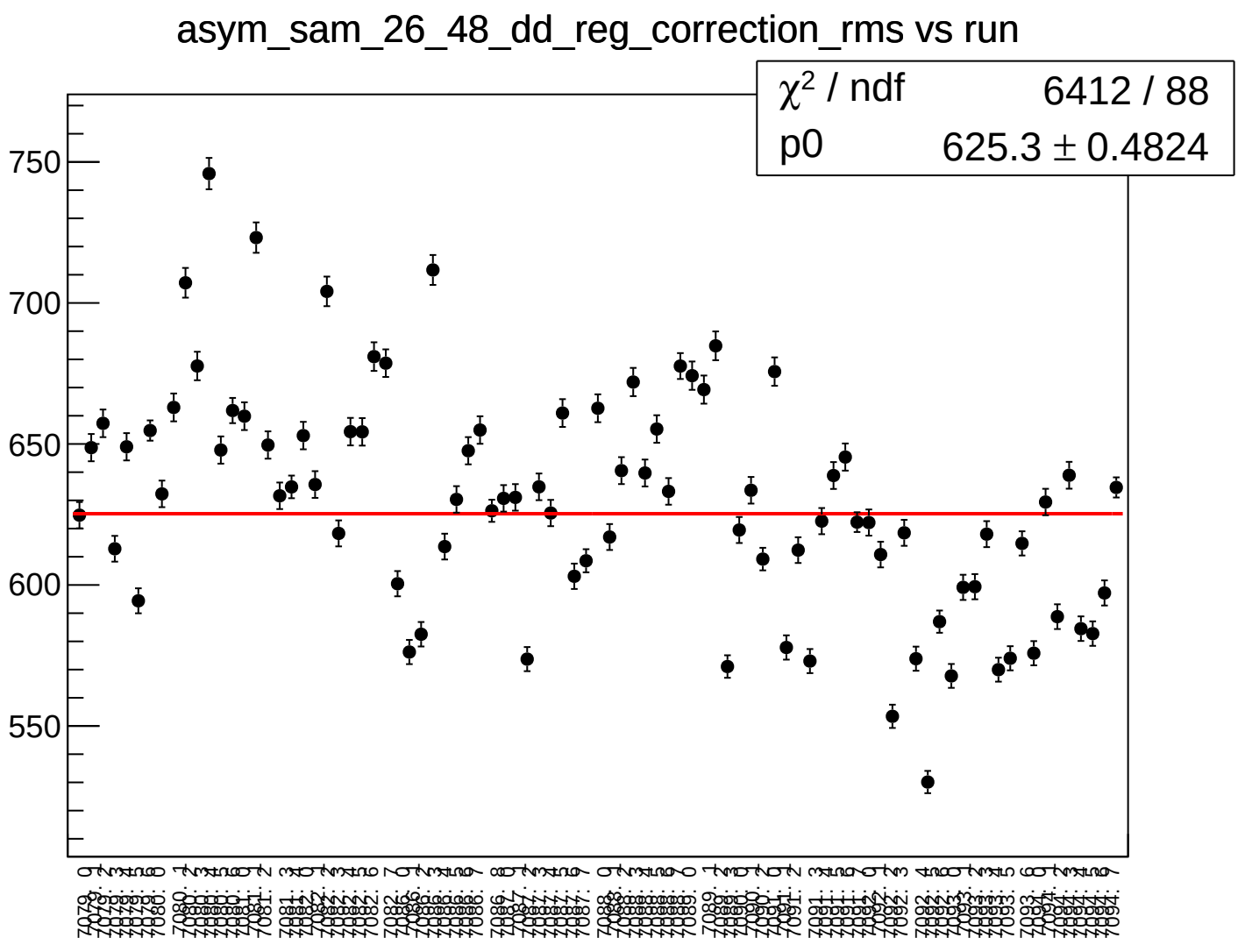

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.24e+05 / 88
p0 8.55e−12 ± 8.717e−15
80
70
60
50
40
30
20
10

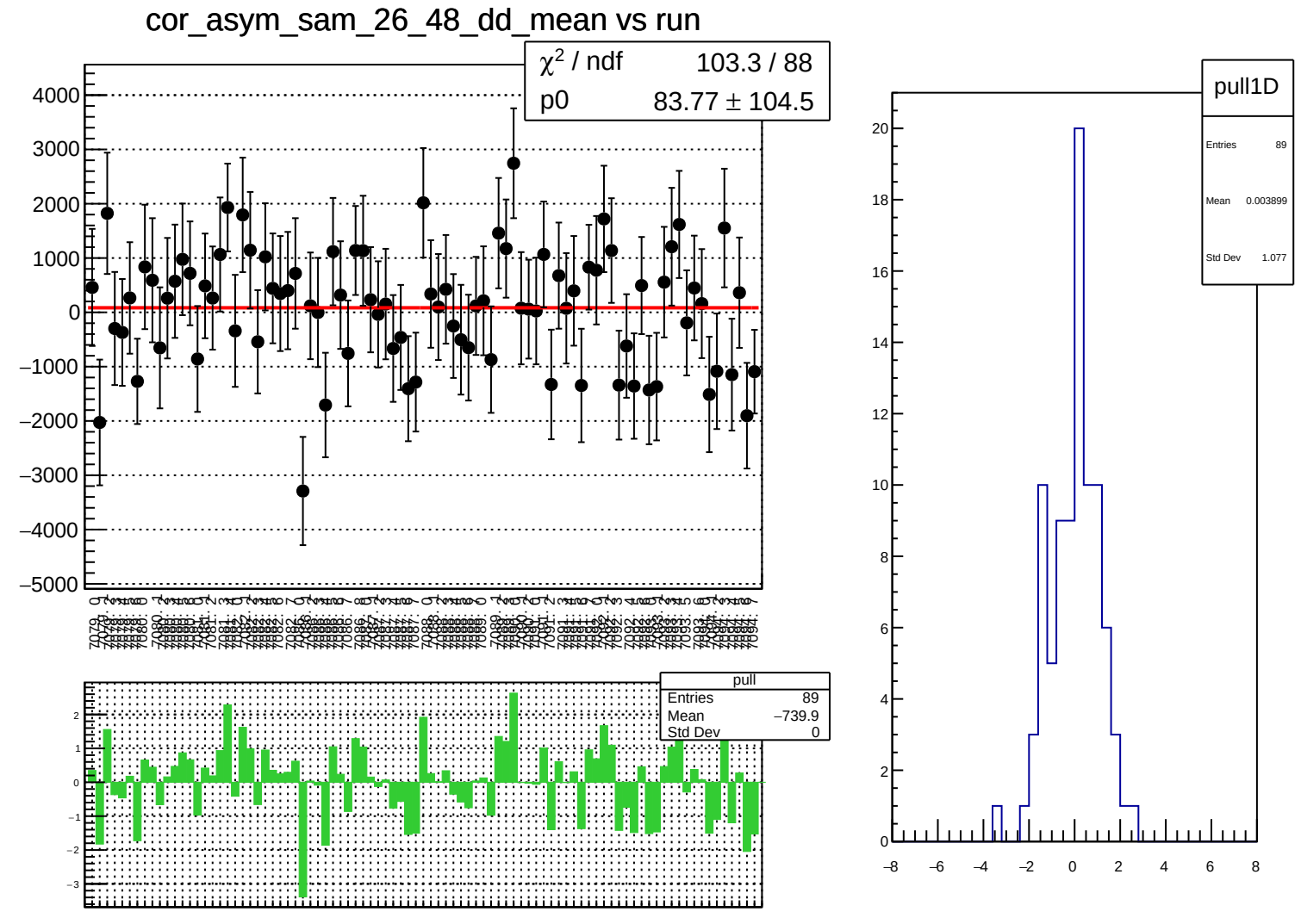

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 103.3 / 88
p0 83.81 ± 104.5
pull
Entries 89
Mean −739.7
Std Dev 0

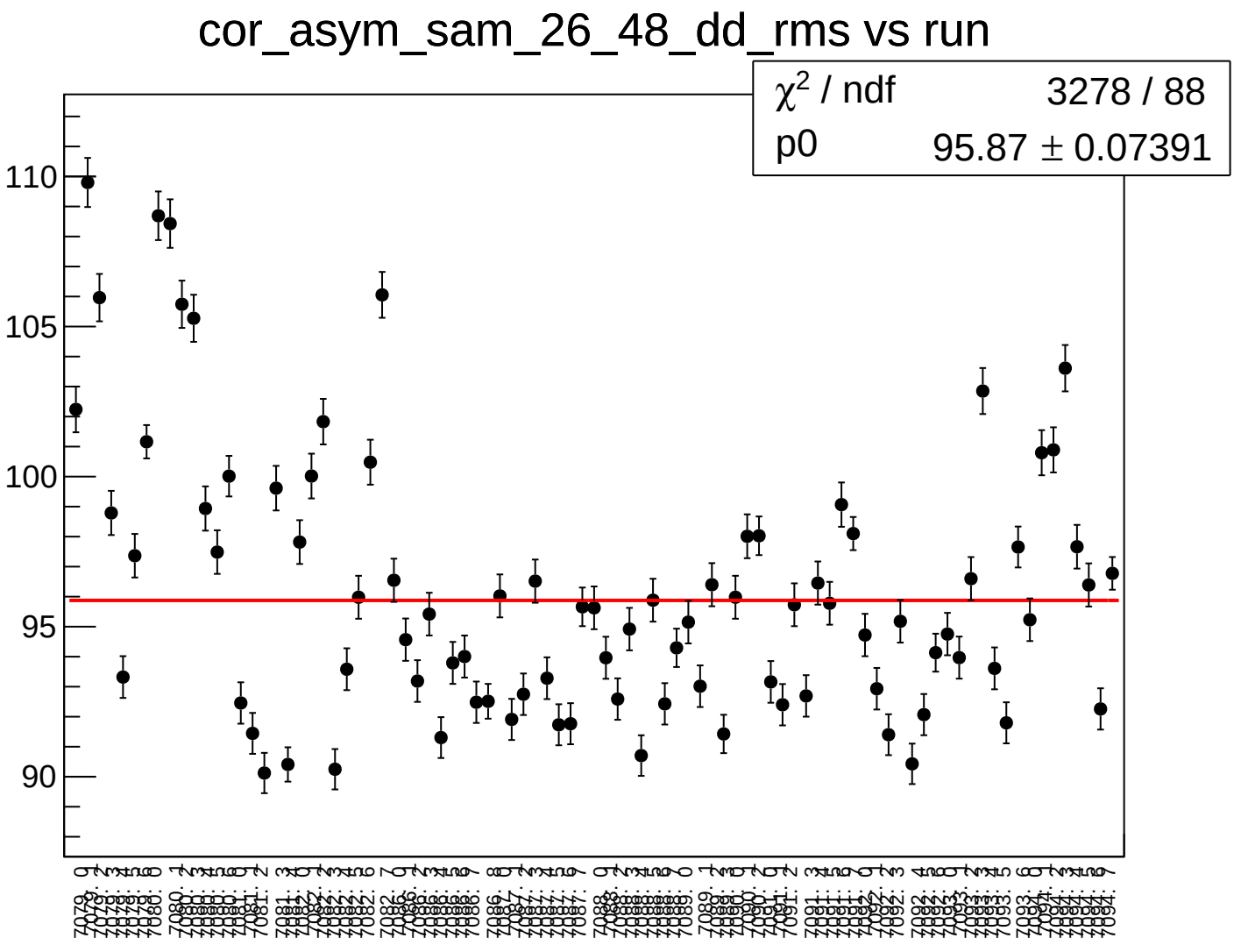

pull1D
Entries 89
Mean 0.003901
Std Dev 1.077

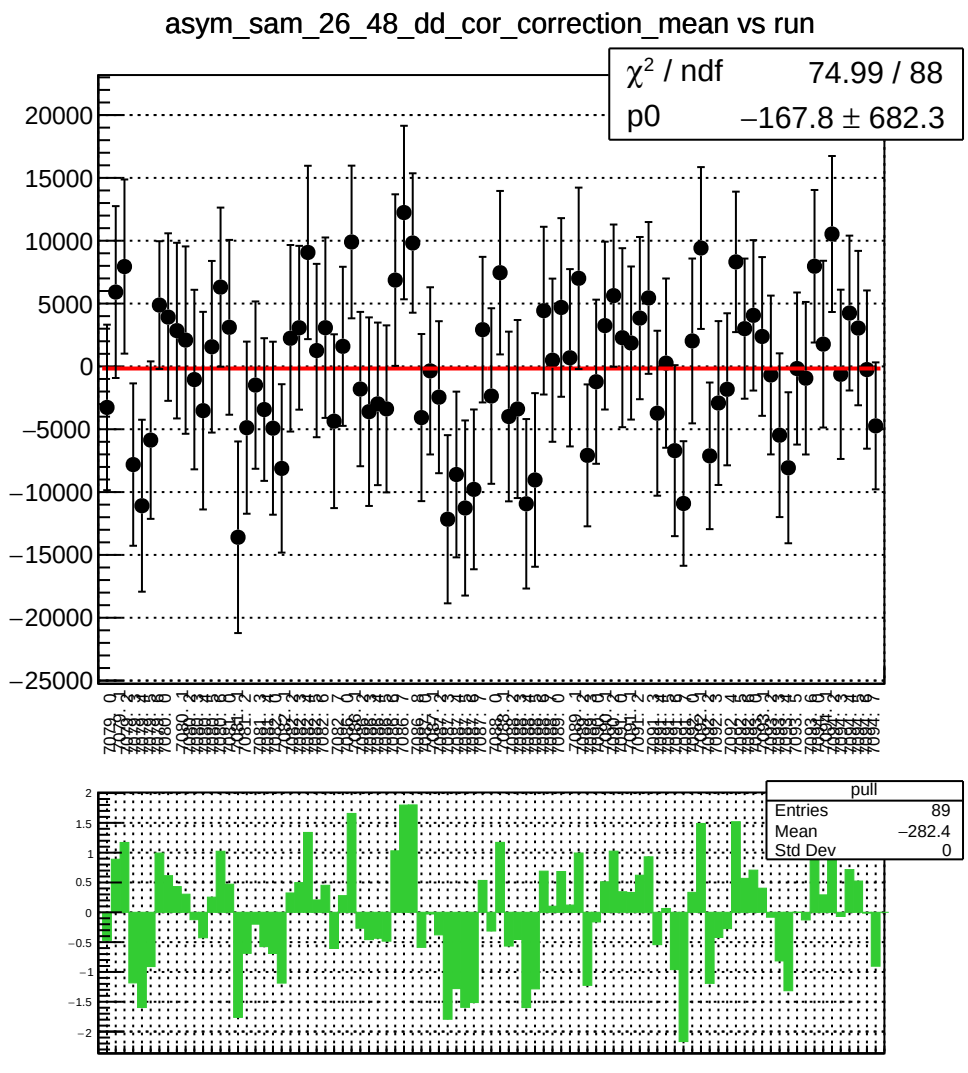

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 3278 / 88
p0 95.87 ± 0.07391
110
105
100
95
90

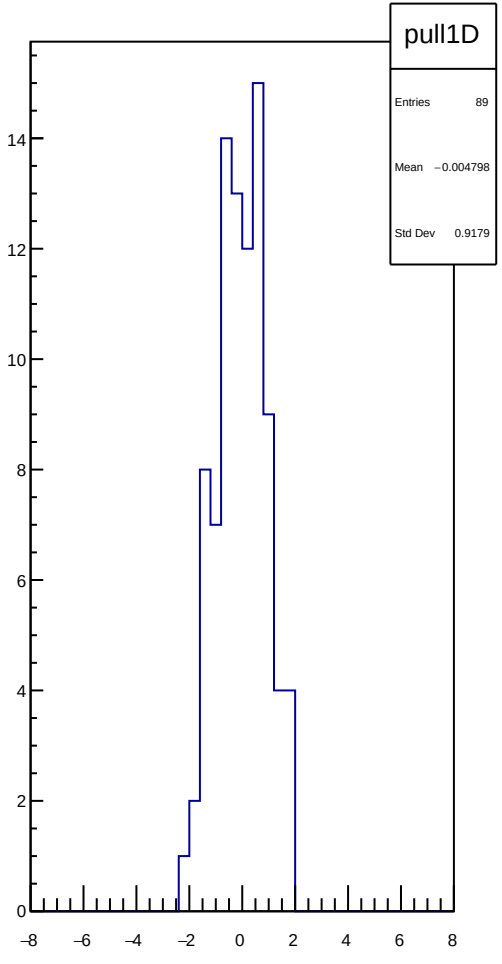

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 74.99 / 88
p0 −167.8 ± 682.3
pull
Entries 89
Mean −282.4
Std Dev 0
pull1D
Entries 89
Mean −0.004798
Std Dev 0.9179

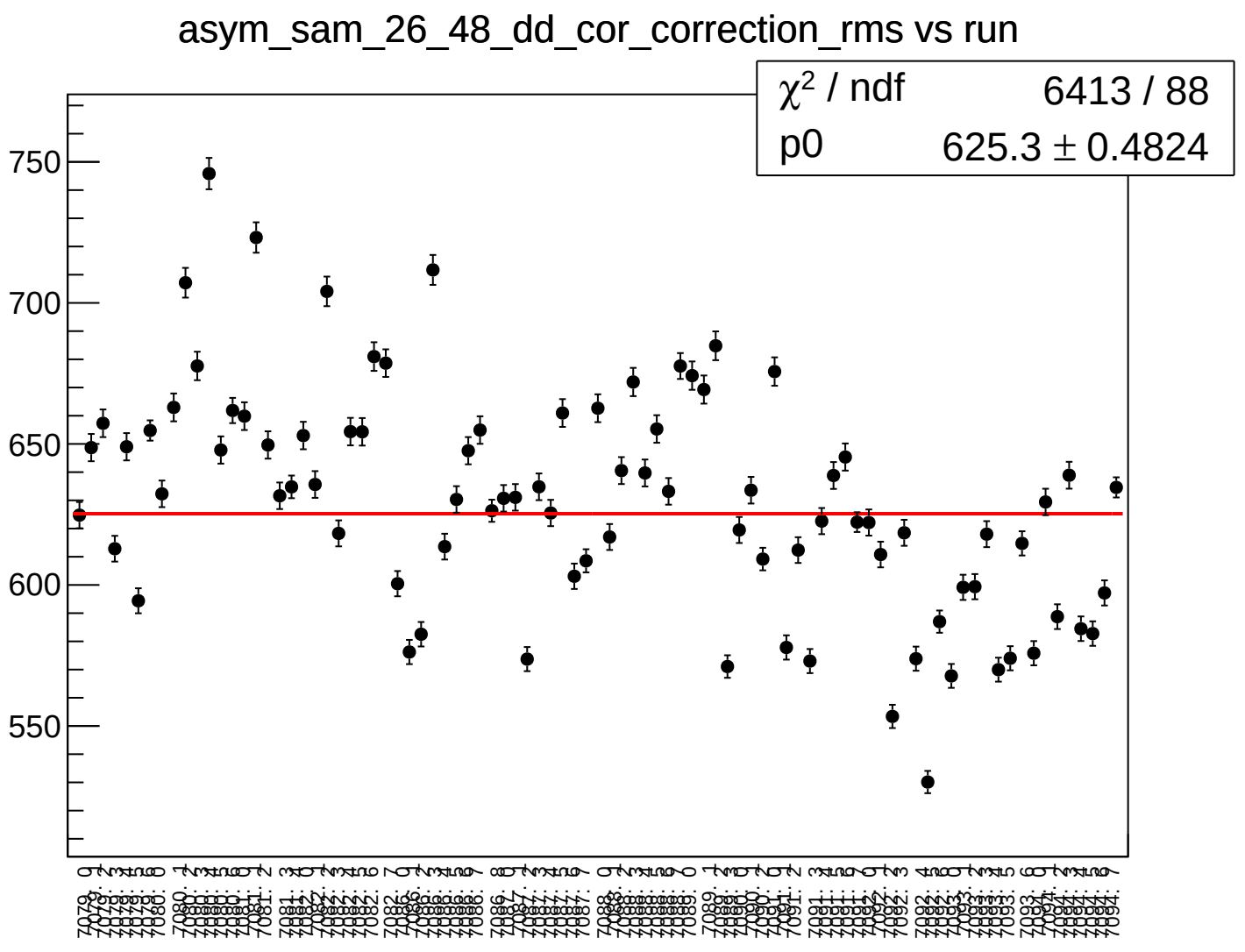

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 6412 / 88
p0 625.3 ± 0.4824
750
700
650
600
550

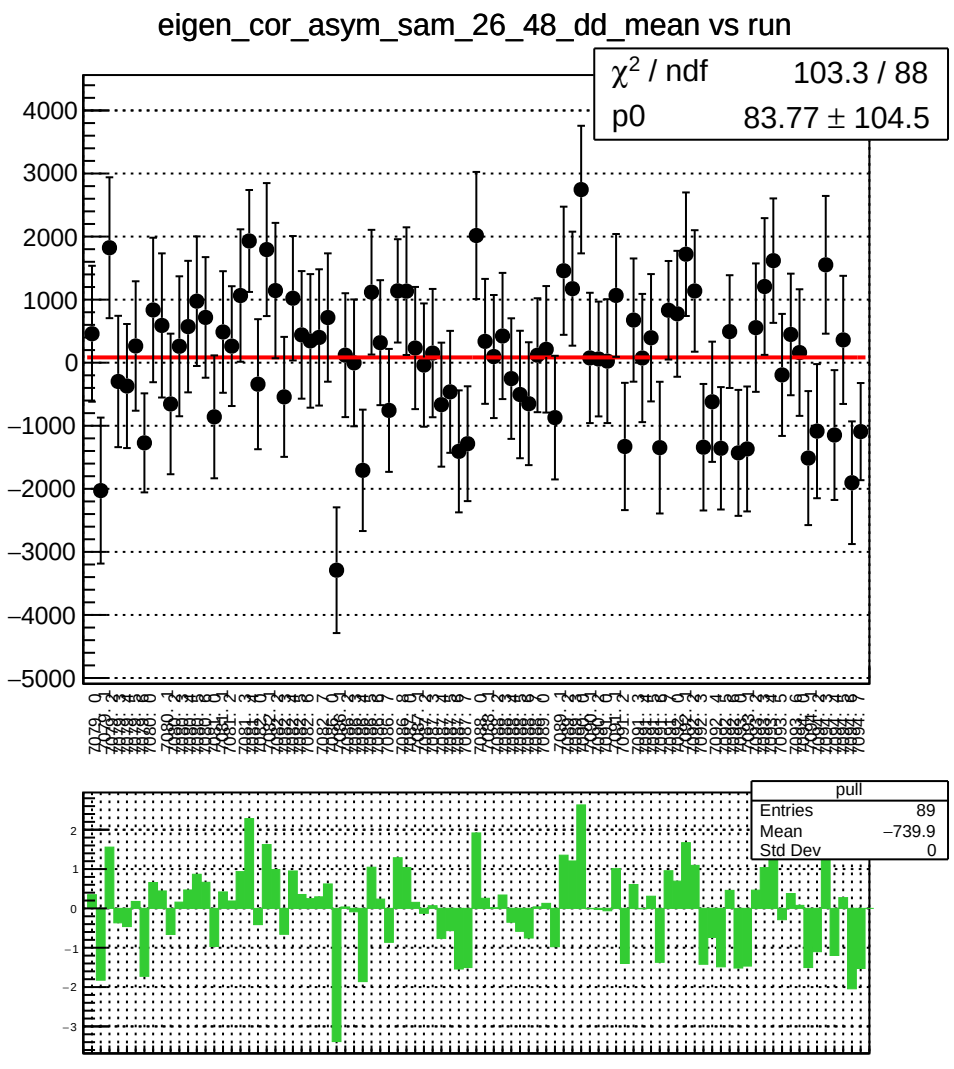

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 103.3 / 88
p0 83.77 ± 104.5
pull
Entries 89
Mean −739.9
Std Dev 0
pull1D
Entries 89
Mean 0.003899
Std Dev 1.077

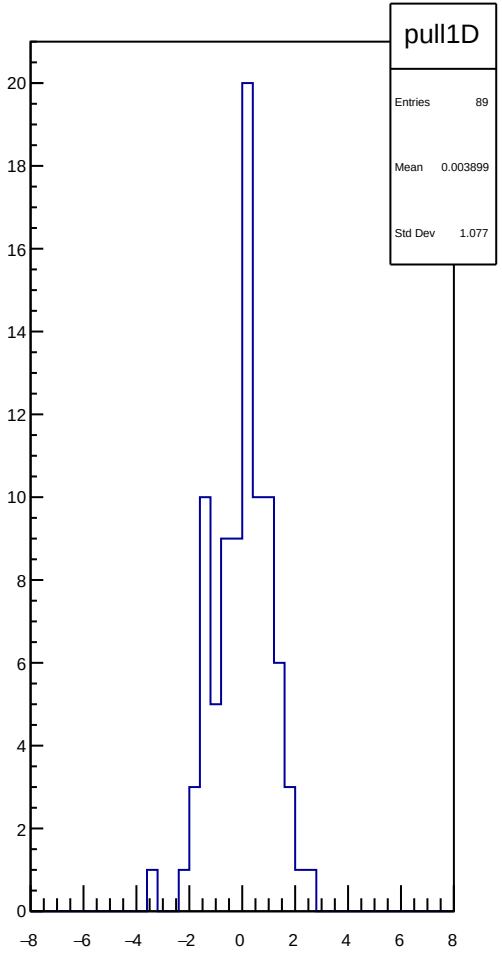

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 3278 / 88
p0 95.87 ± 0.07391
110
105
100
95
90

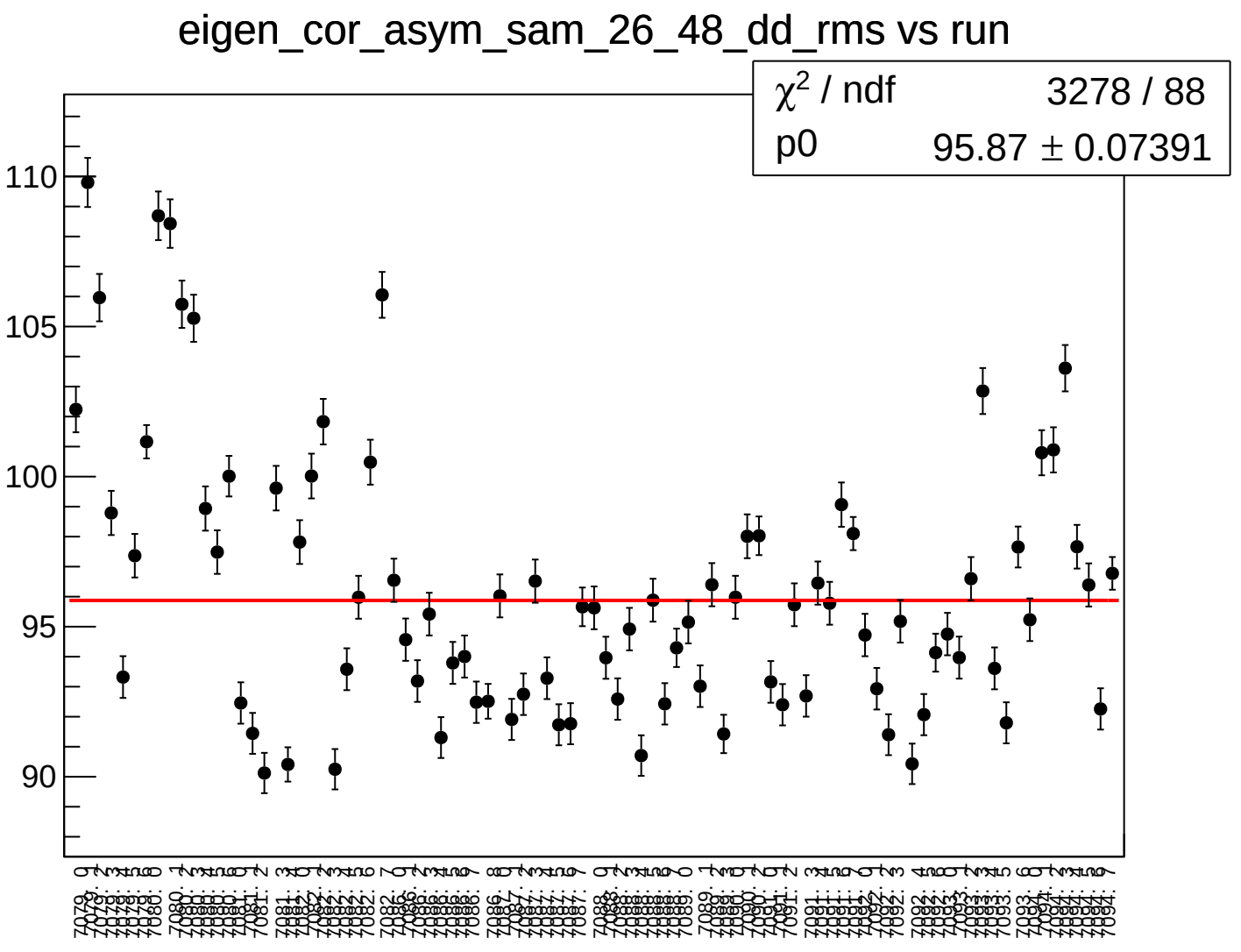

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 74.99 / 88
p0 −167.8 ± 682.3
pull
Entries 89
Mean −282.4
Std Dev 0

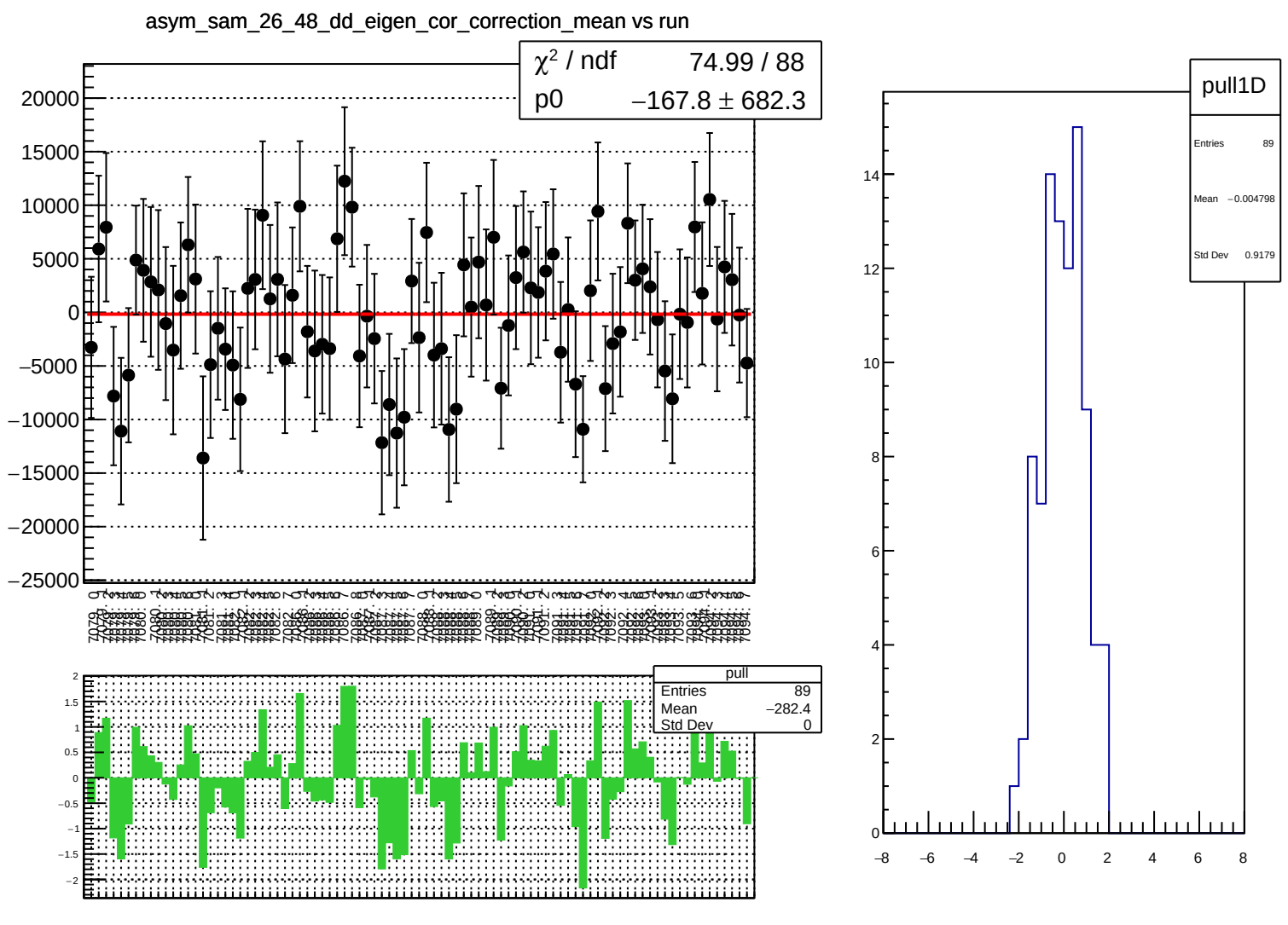

pull1D
Entries 89
Mean −0.004798
Std Dev 0.9179

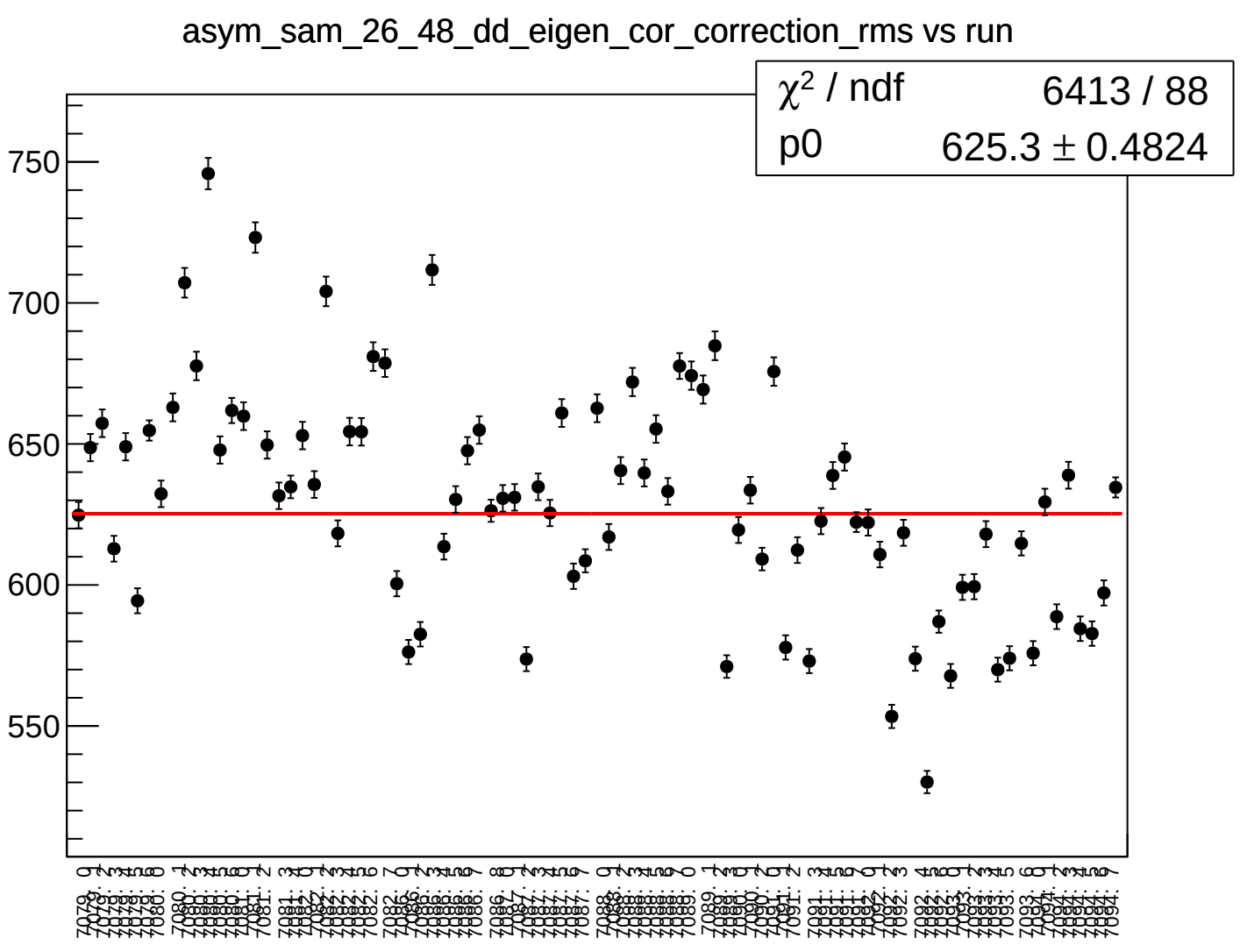

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 6413 / 88
p0 625.3 ± 0.4824
750
700
650
600
550

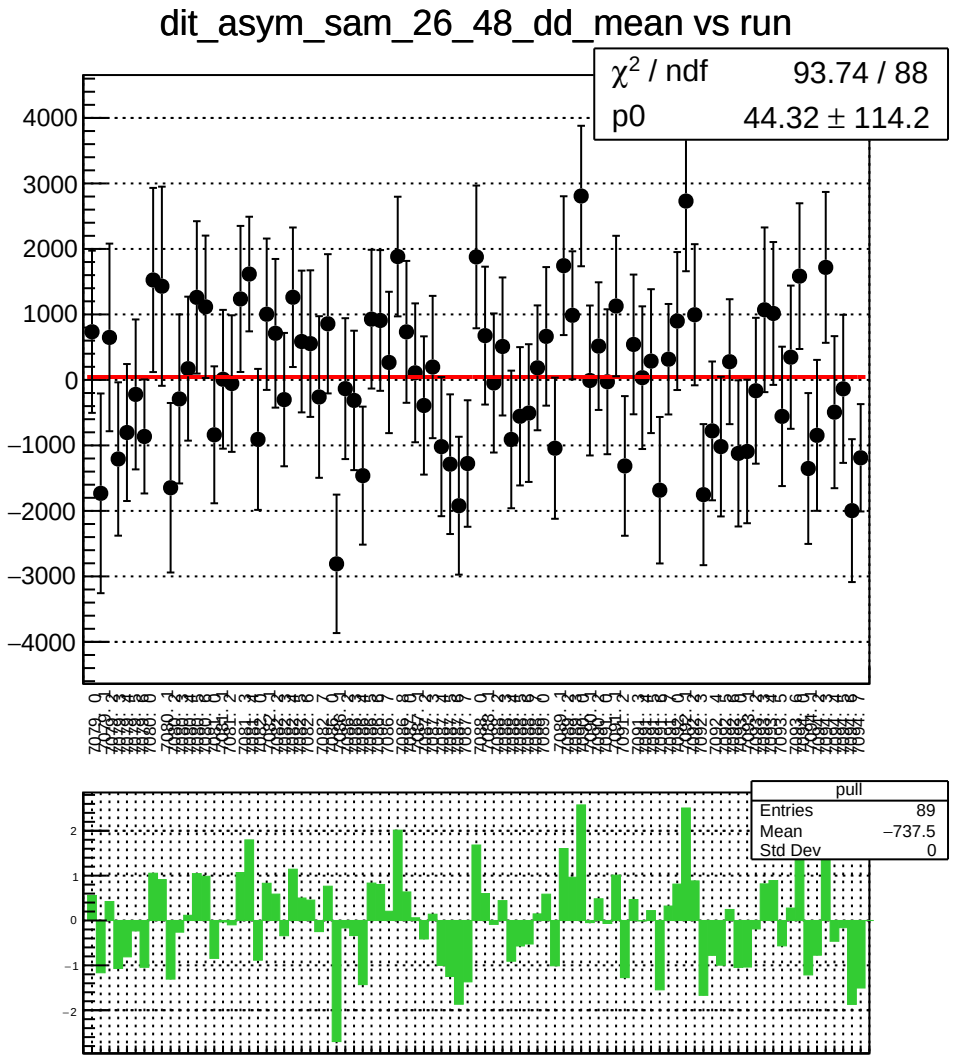

eigen_cor_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 103.3 / 88
p0 83.77 ± 104.5
pull
Entries 89
Mean −739.9
Std Dev 0

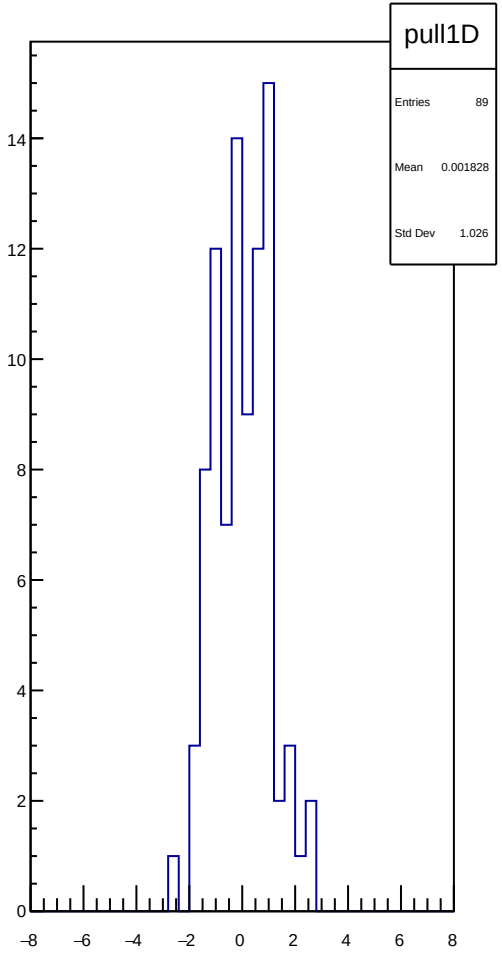

pull1D
Entries 89
Mean 0.003899
Std Dev 1.077

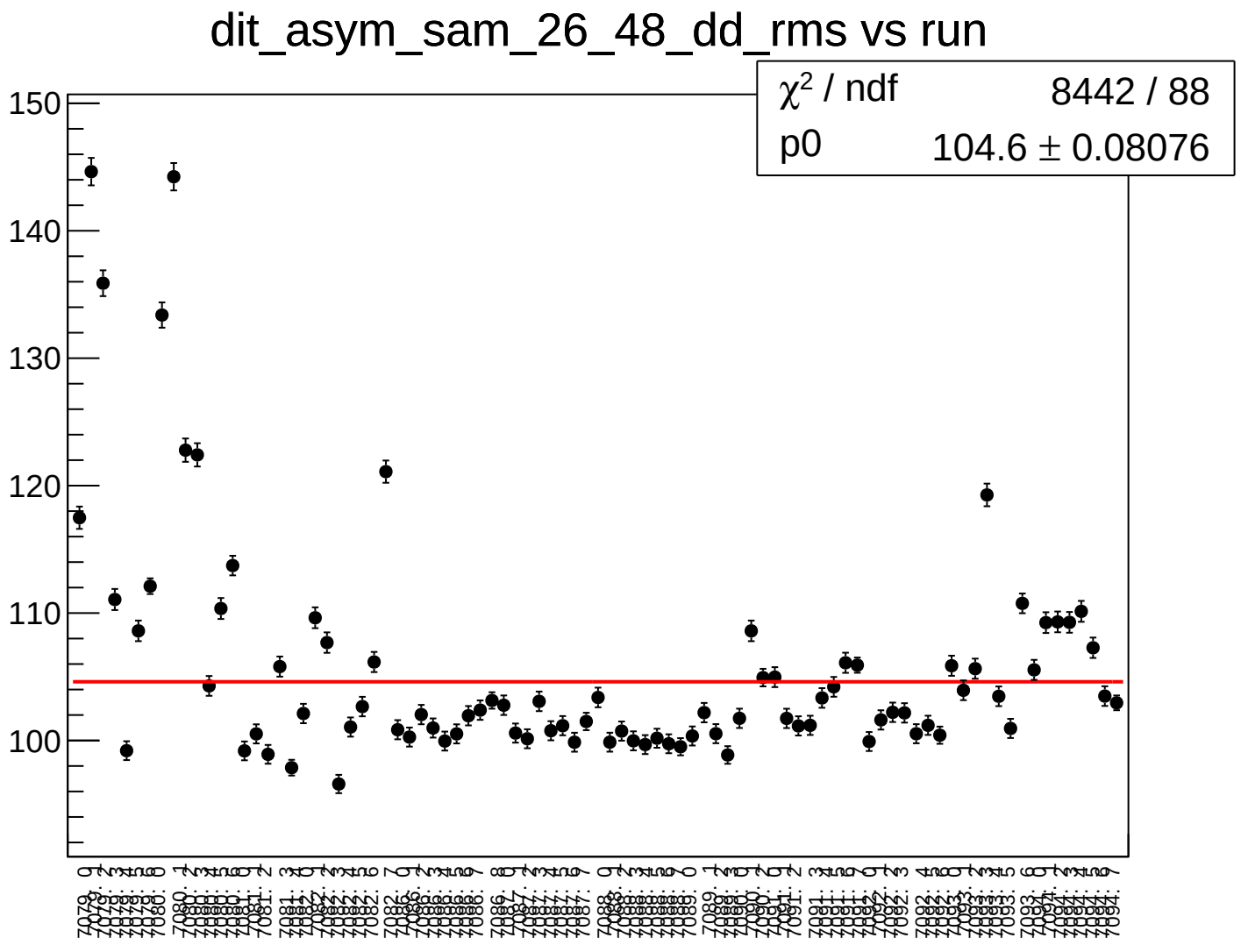

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 3278 / 88
p0 95.87 ± 0.07391
110
105
100
95
90

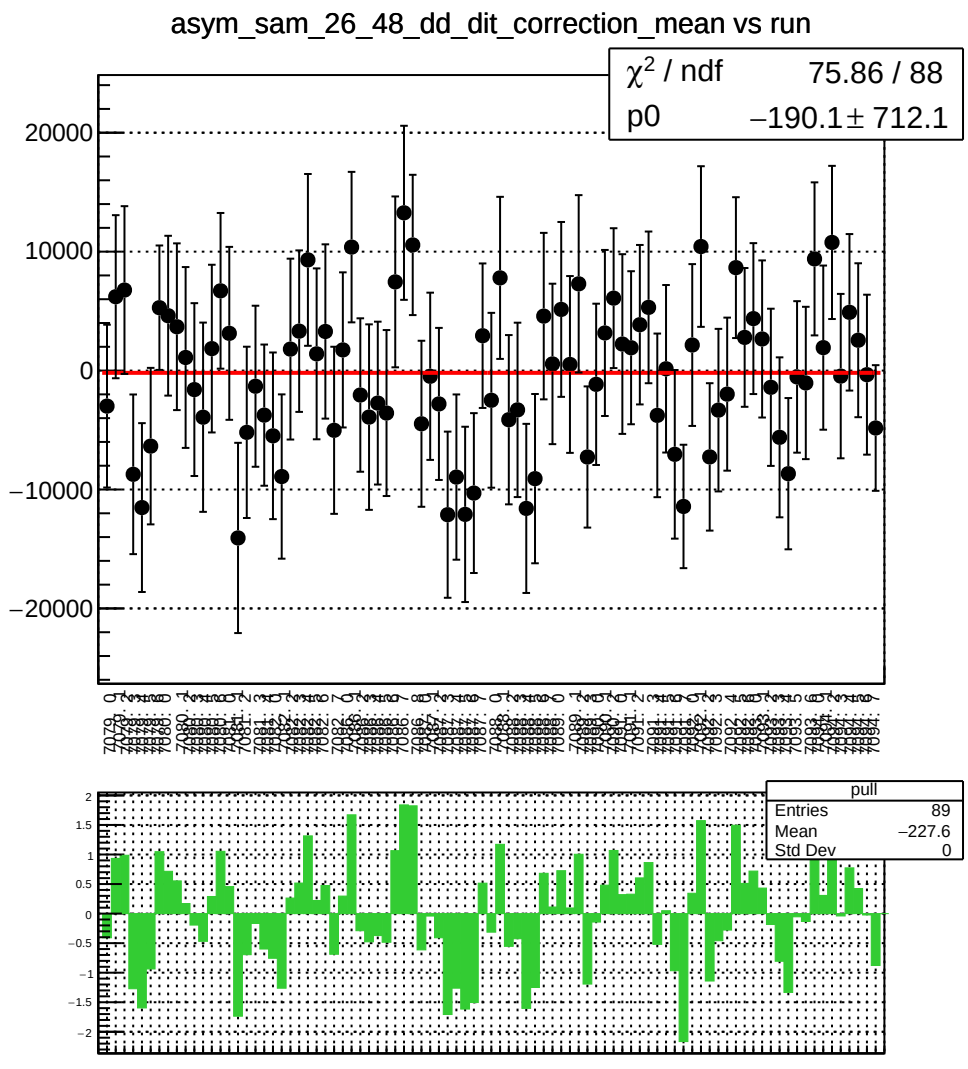

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.99 / 88
p0 −167.8 ± 682.3
pull
Entries 89
Mean −282.4
Std Dev 0
pull1D
Entries 89
Mean −0.004798
Std Dev 0.9179

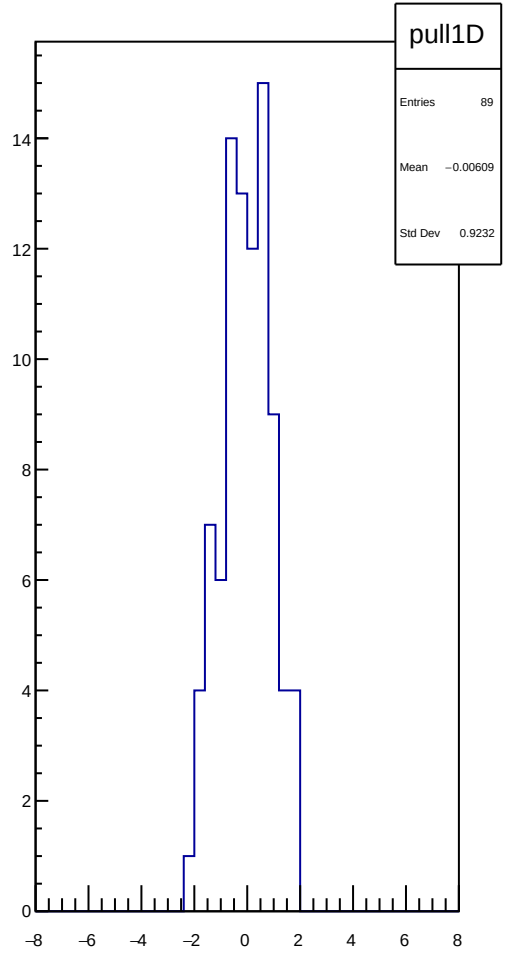

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6413 / 88
p0 625.3 ± 0.4824
750
700
650
600
550

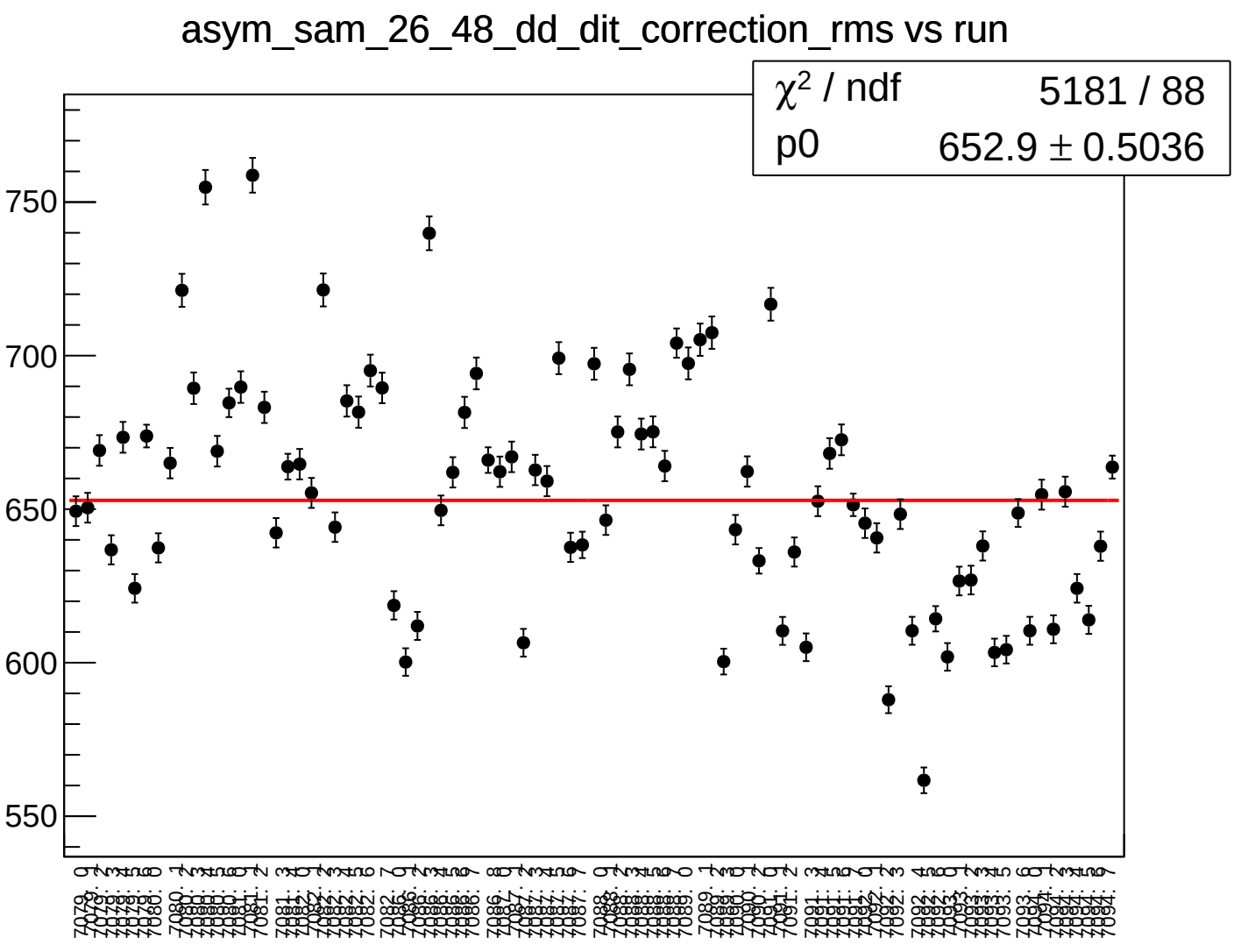

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 93.74 / 88
p0 44.32 ± 114.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean −737.5
Std Dev 0
2
1
0
−1
−2

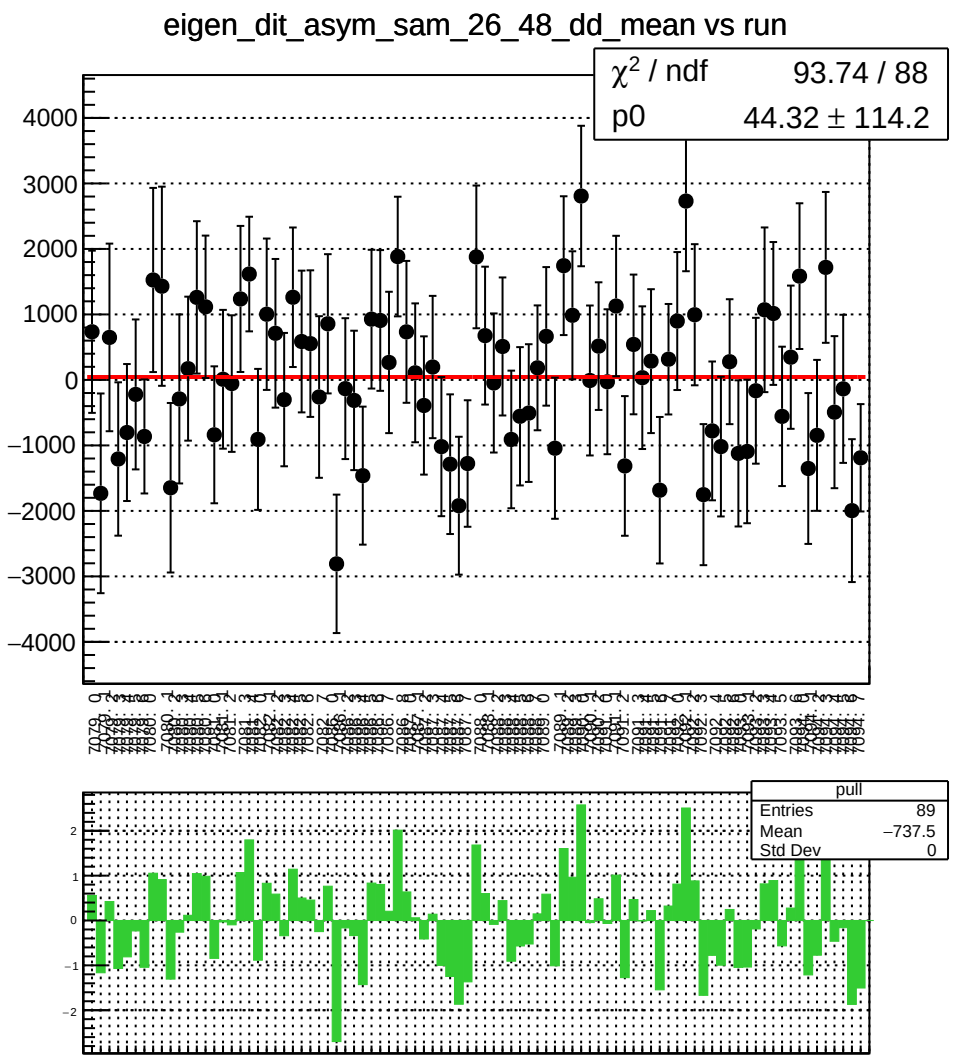

pull1D
Entries 89
Mean 0.001828
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

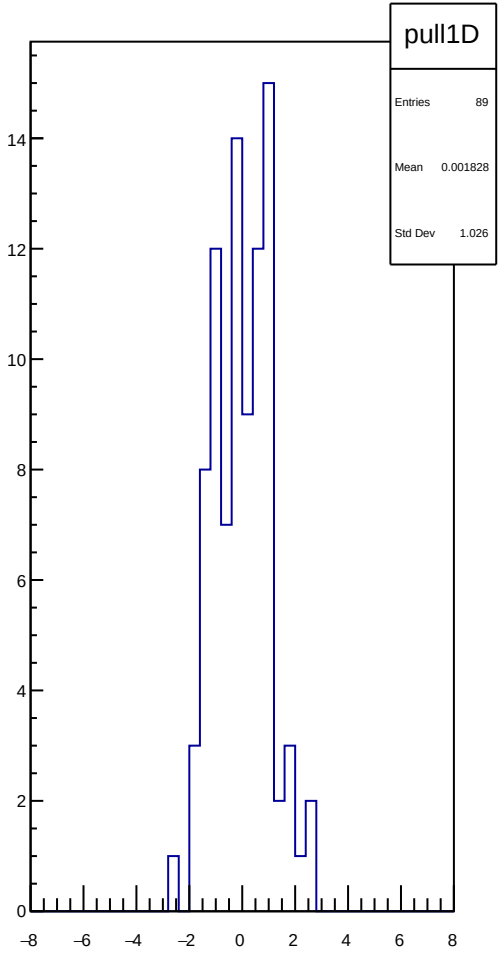

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 8442 / 88
p0 104.6 ± 0.08076
150
140
130
120
110
100

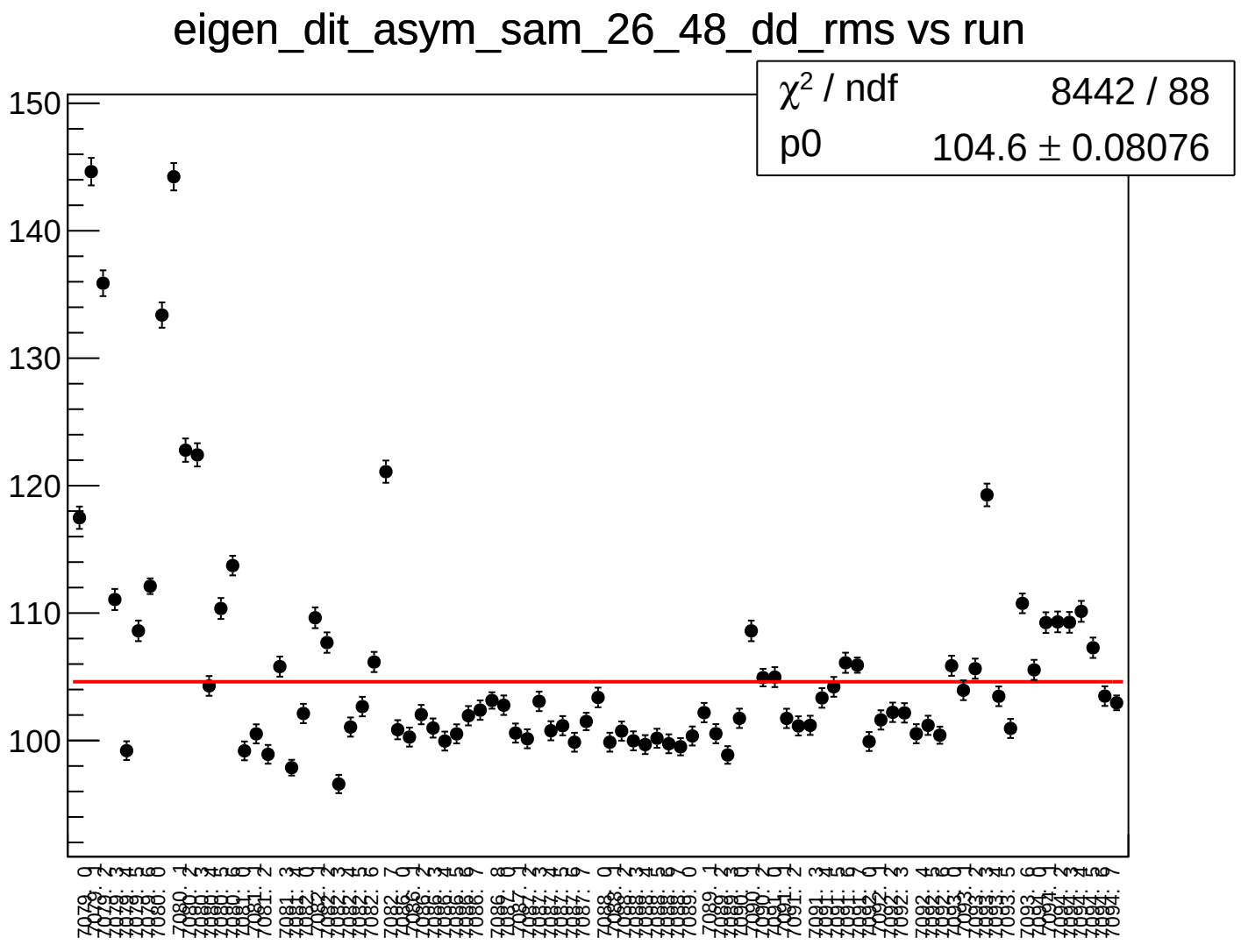

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 75.86 / 88
p0 −190.1 ± 712.1
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −227.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

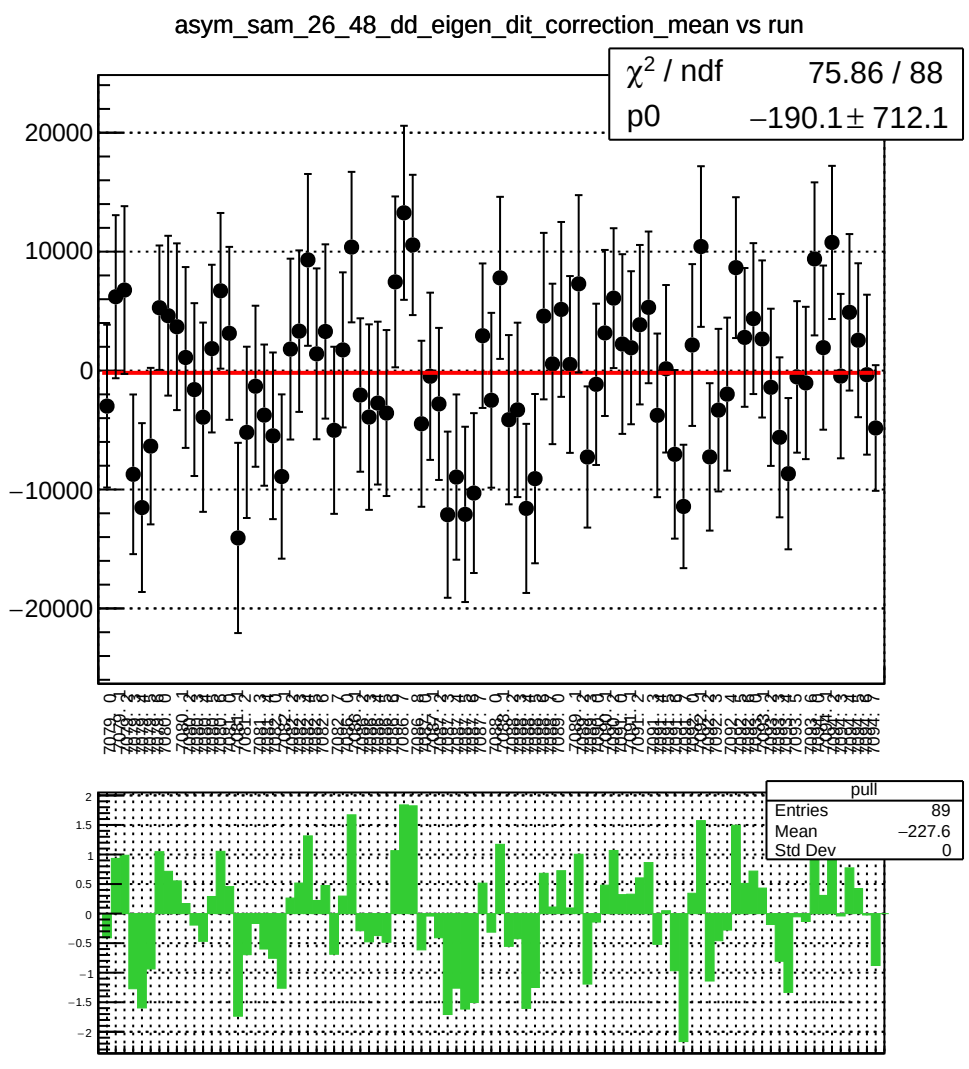

pull1D
Entries 89
Mean −0.00609
Std Dev 0.9232
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

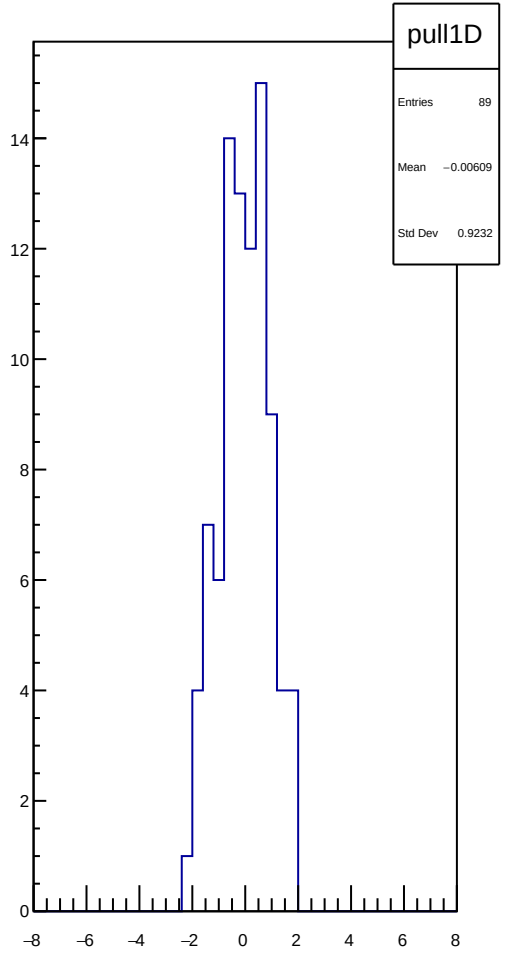

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 5181 / 88
p0 652.9 ± 0.5036
750
700
650
600
550

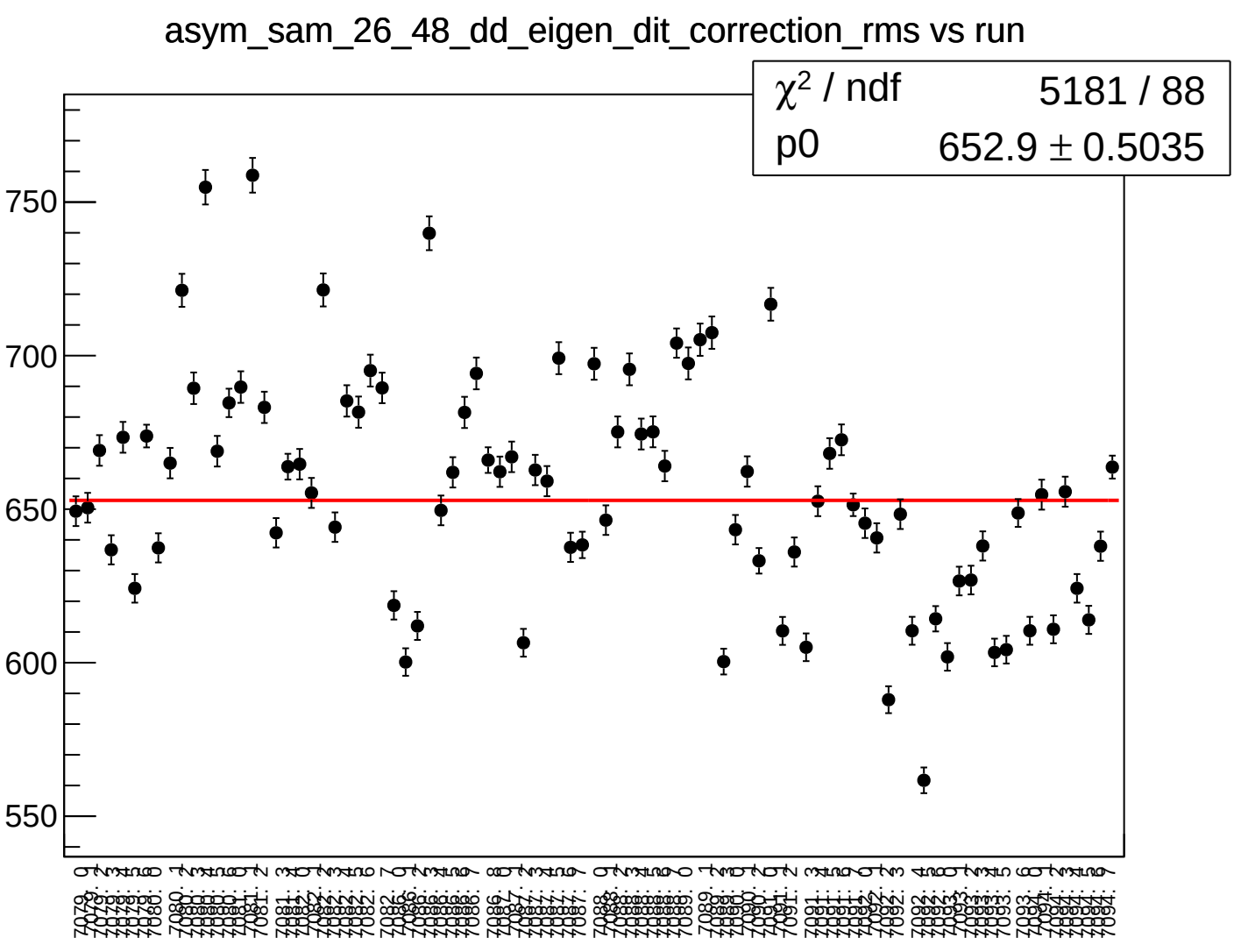

eigen_dit_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 93.74 / 88
p0 44.32 ± 114.2
pull
Entries 89
Mean −737.5
Std Dev 0

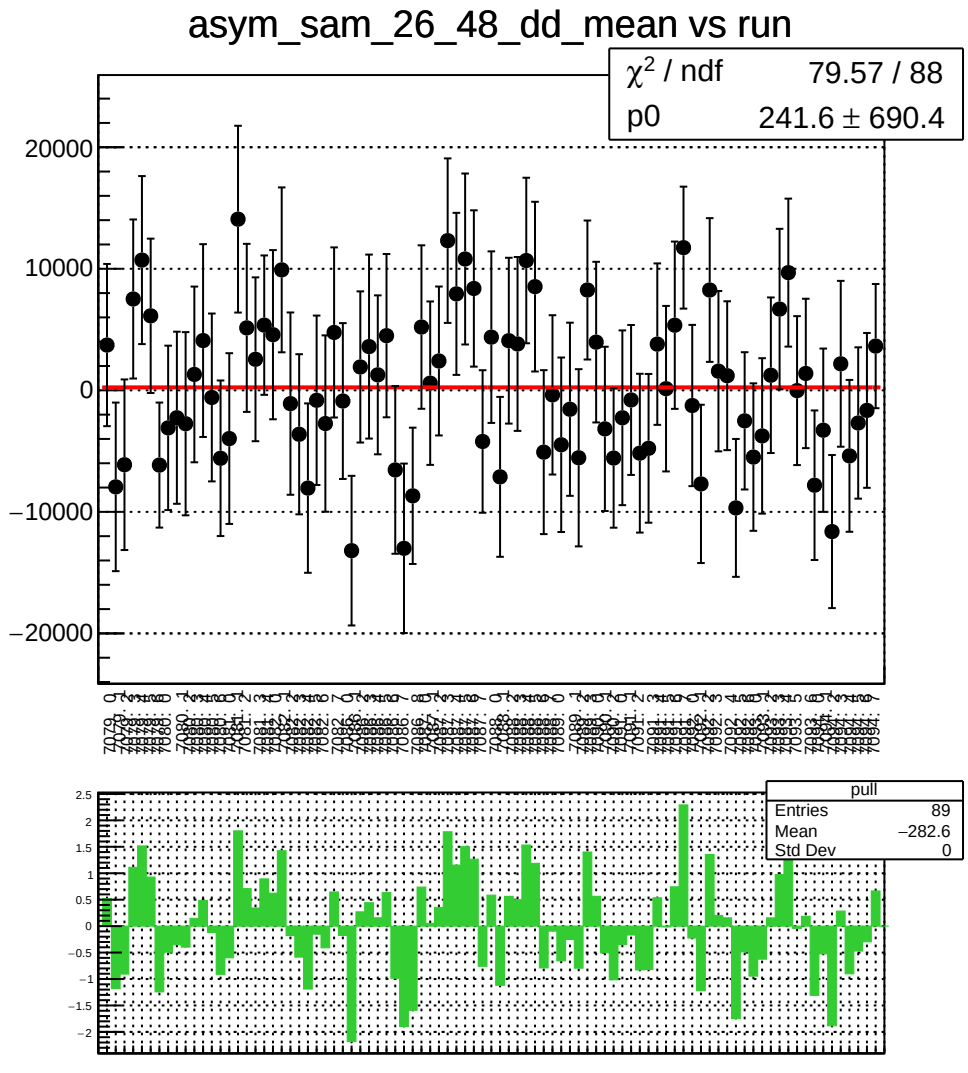

pull1D
Entries 89
Mean 0.001828
Std Dev 1.026

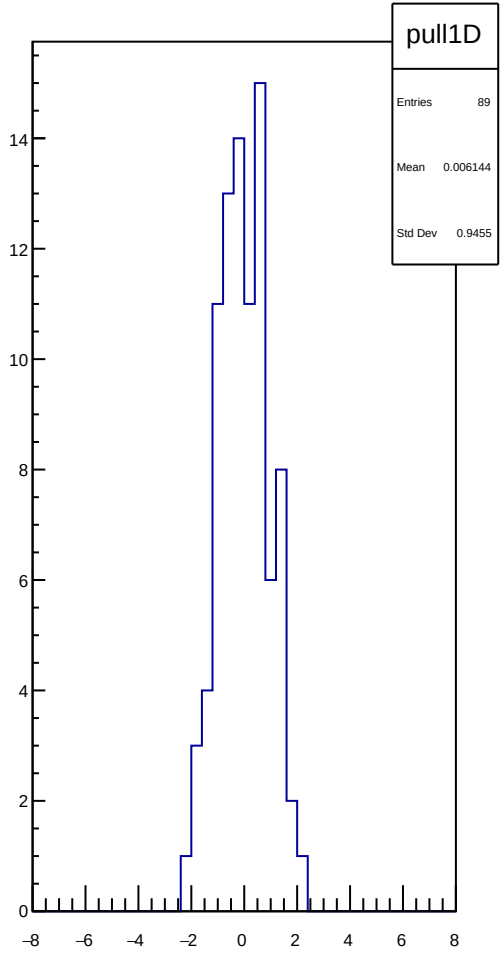

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 8442 / 88
p0 104.6 ± 0.08076
150
140
130
120
110
100

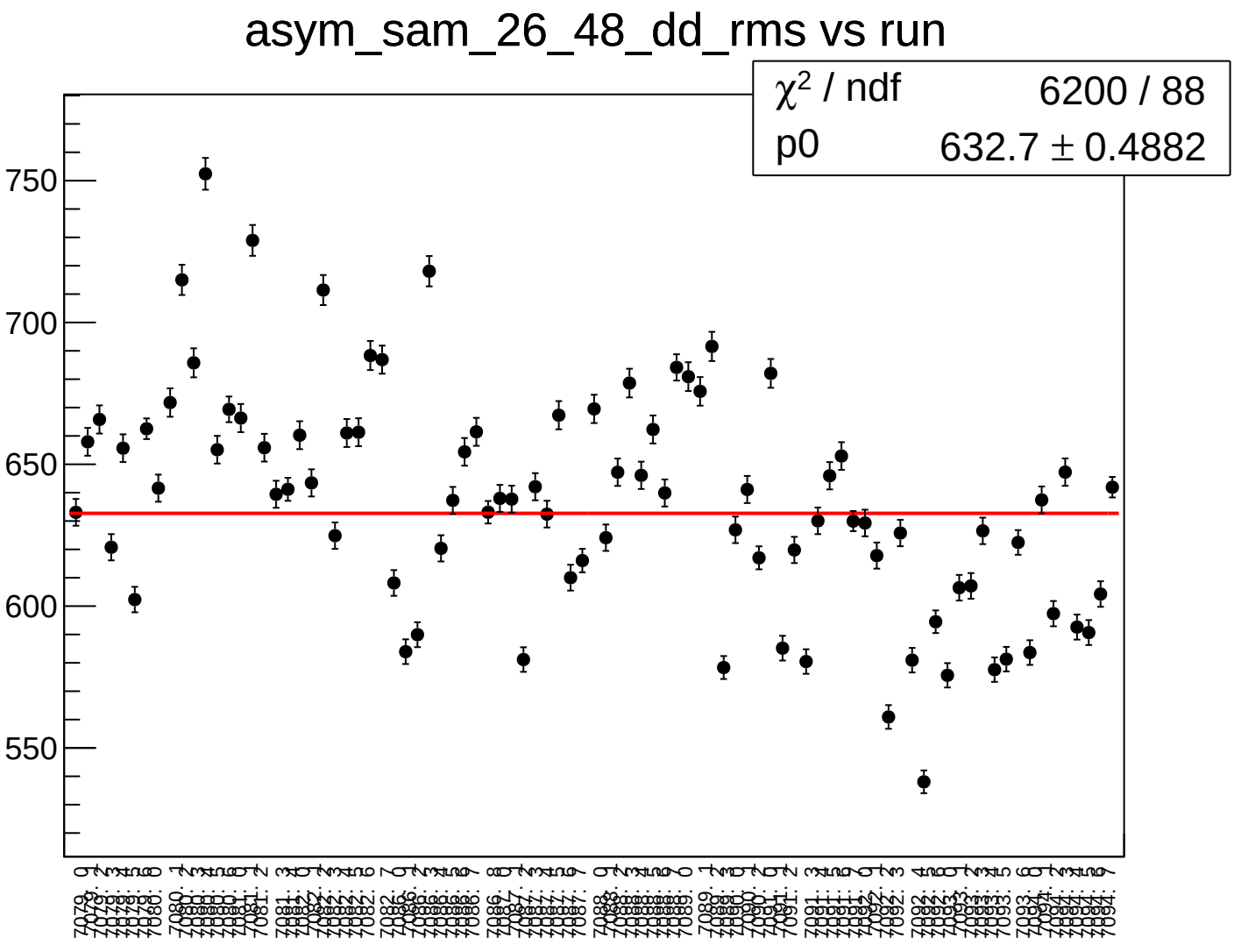

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.86 / 88
p0 −190.1 ± 712.1
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −227.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

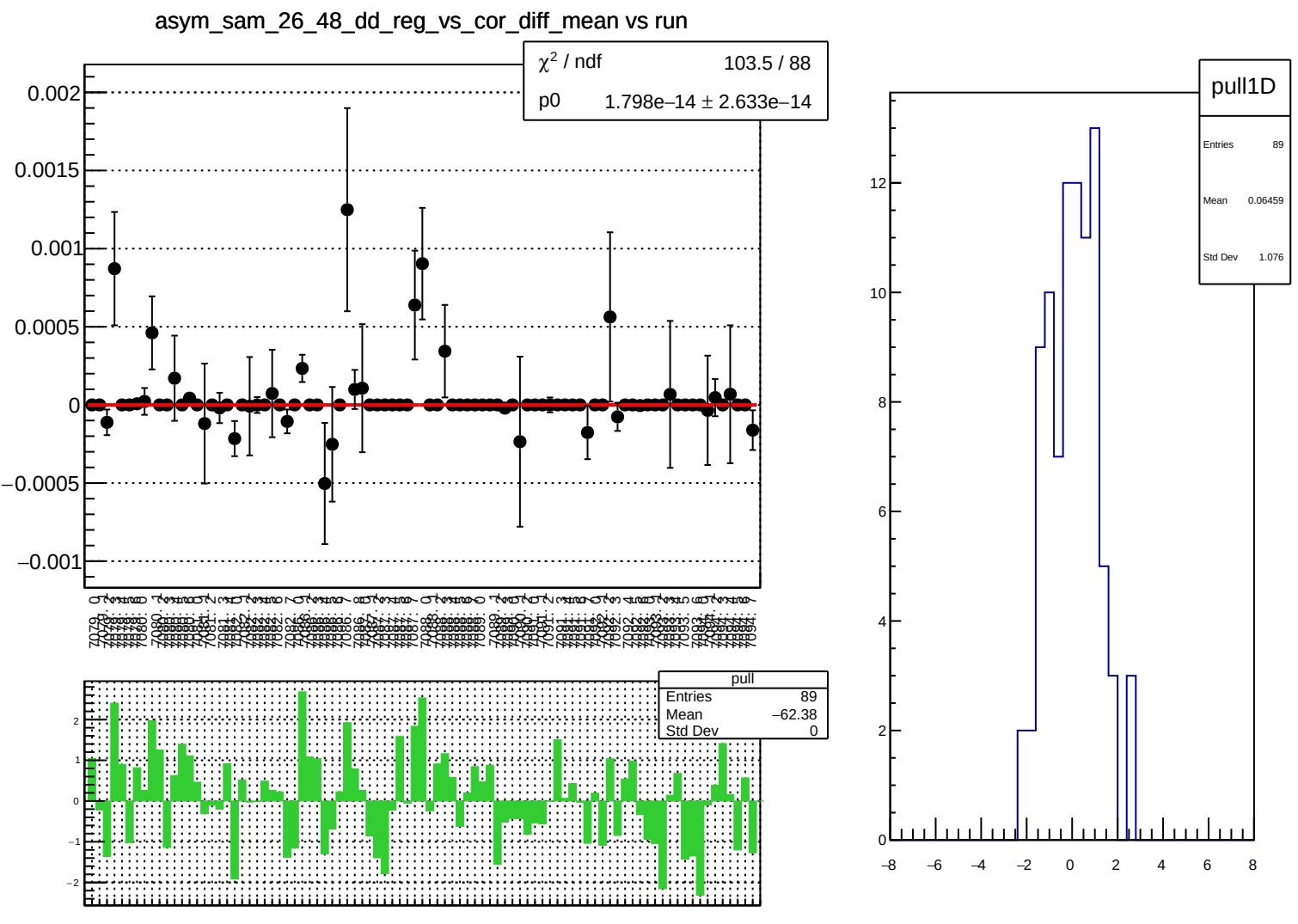

pull1D
Entries 89
Mean −0.00609
Std Dev 0.9232
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

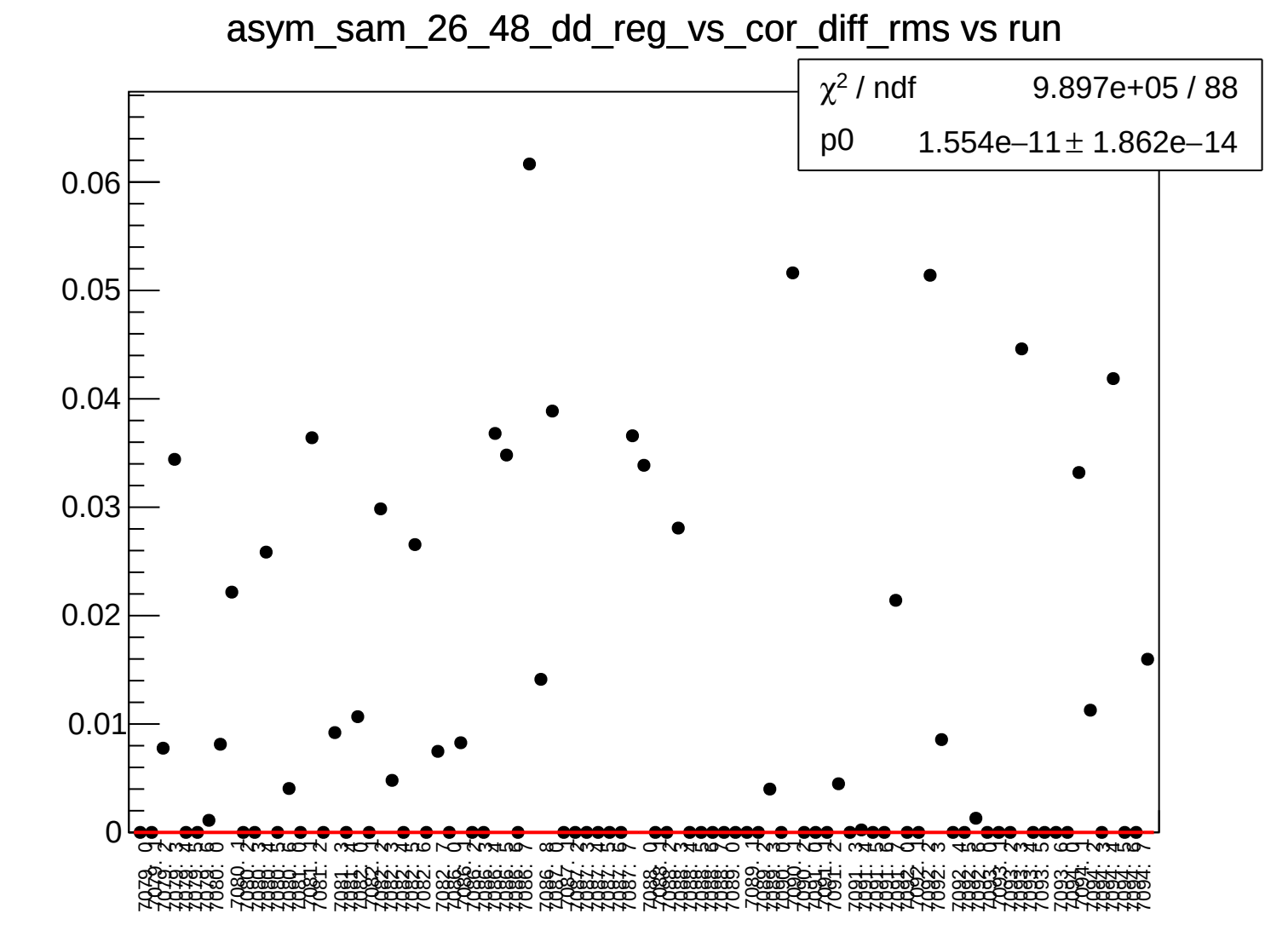

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5181 / 88
p0 652.9 ± 0.5035
750
700
650
600
550

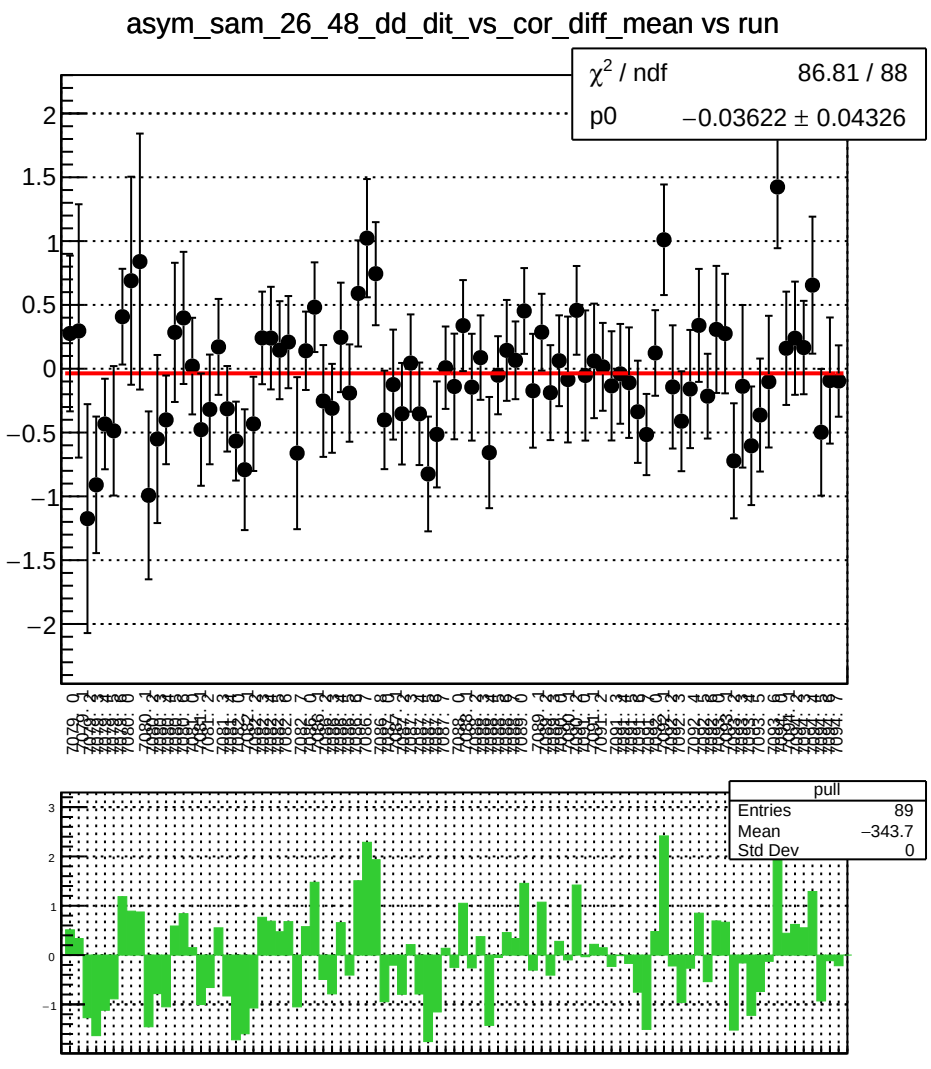

asym_sam_26_48_dd_mean vs run
χ² / ndf 79.57 / 88
p0 241.6 ± 690.4
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −282.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

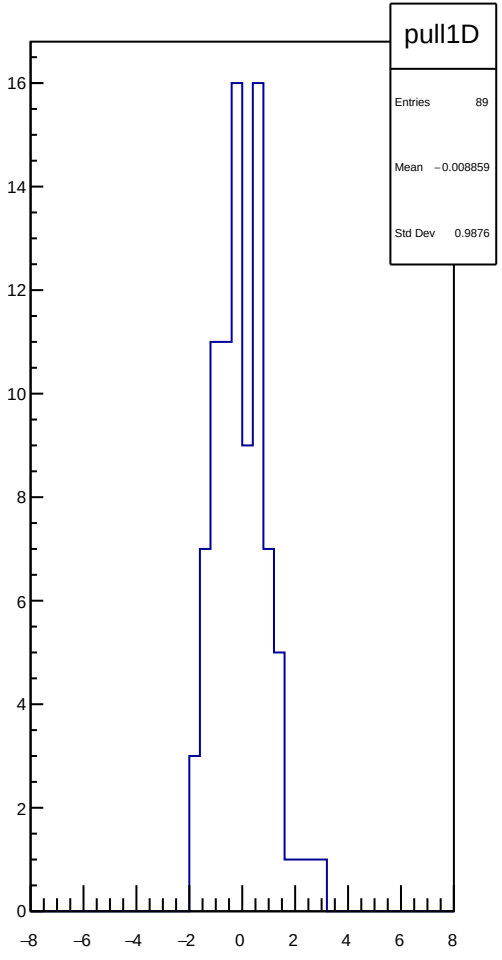

pull1D
Entries 89
Mean 0.006144
Std Dev 0.9455
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

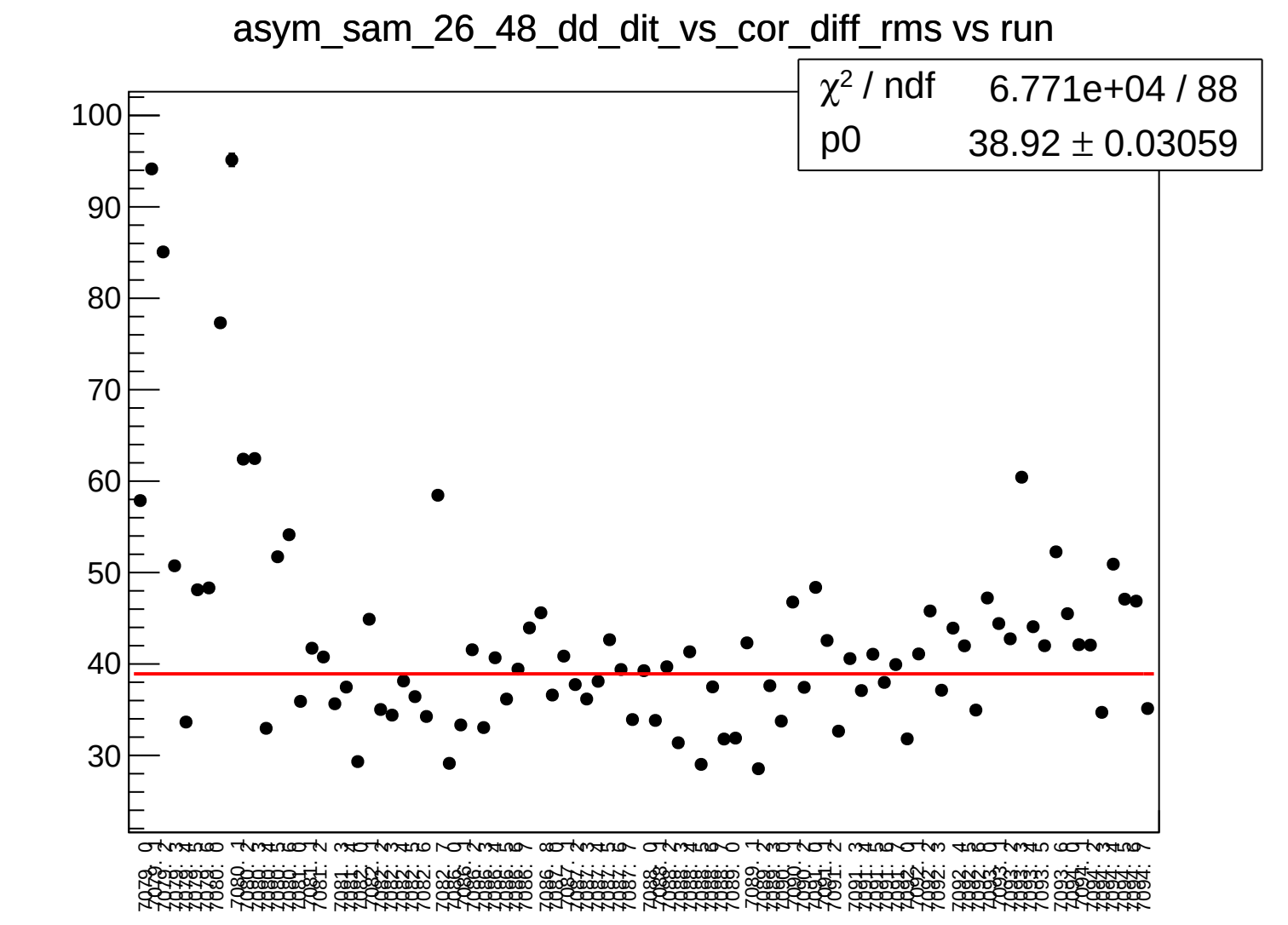

asym_sam_26_48_dd_rms vs run
χ² / ndf 6200 / 88
p0 632.7 ± 0.4882
750
700
650
600
550

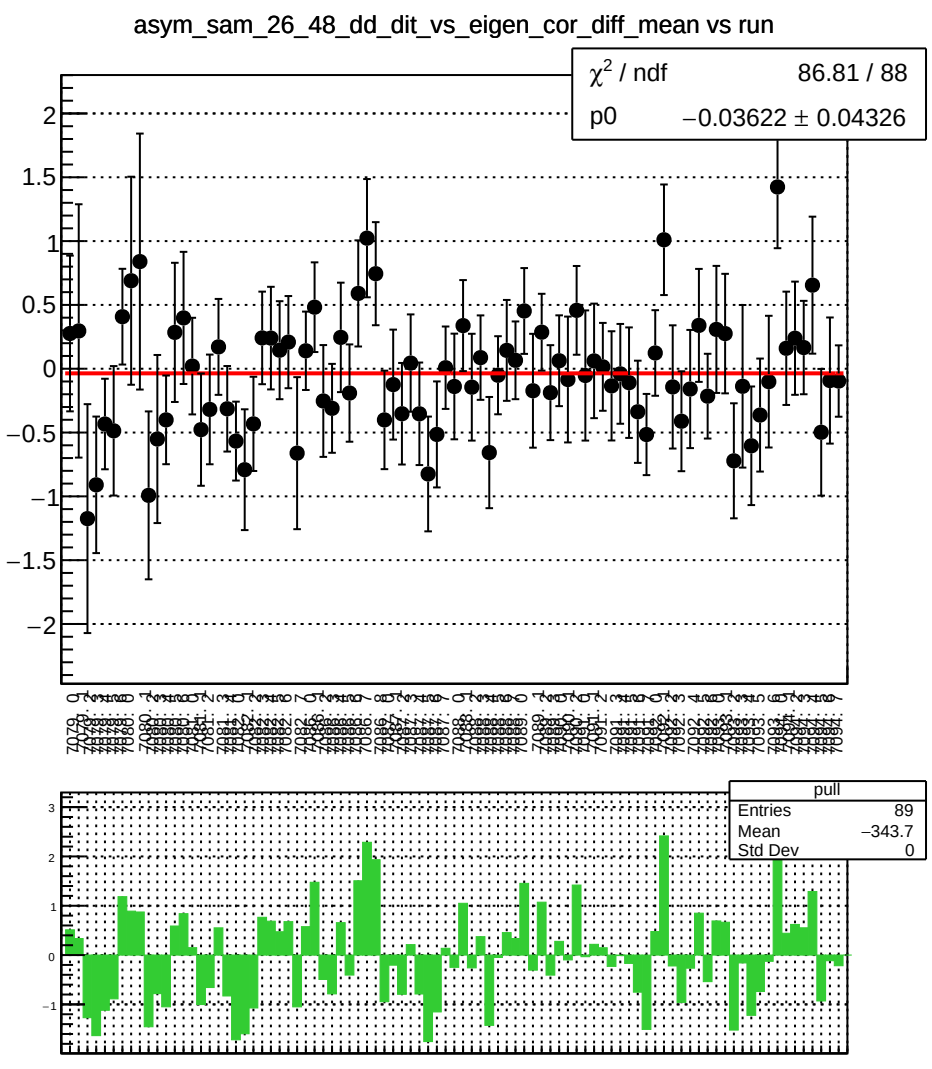

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 88
p0 1.798e−14 ± 2.633e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −62.38
Std Dev 0
pull1D
Entries 89
Mean 0.06459
Std Dev 1.076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

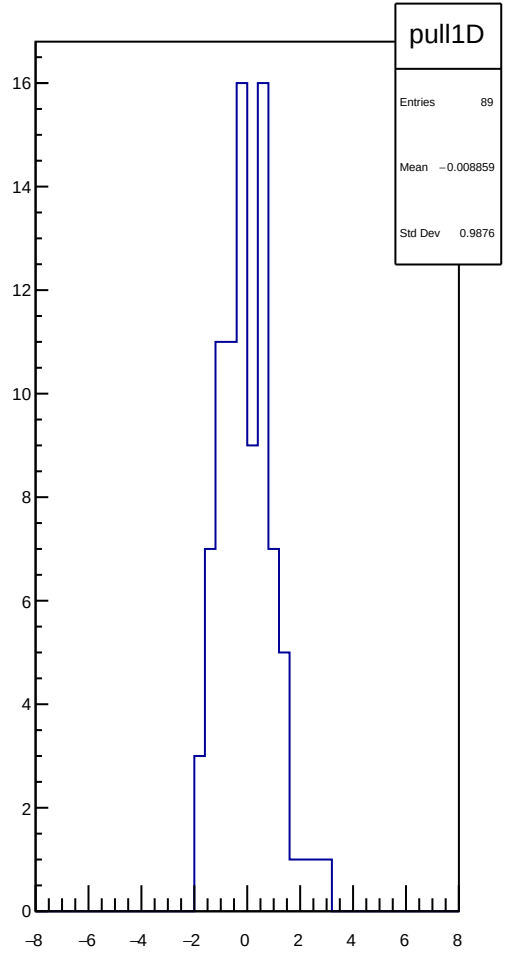

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.897e+05 / 88
p0 1.554e−11 ± 1.862e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

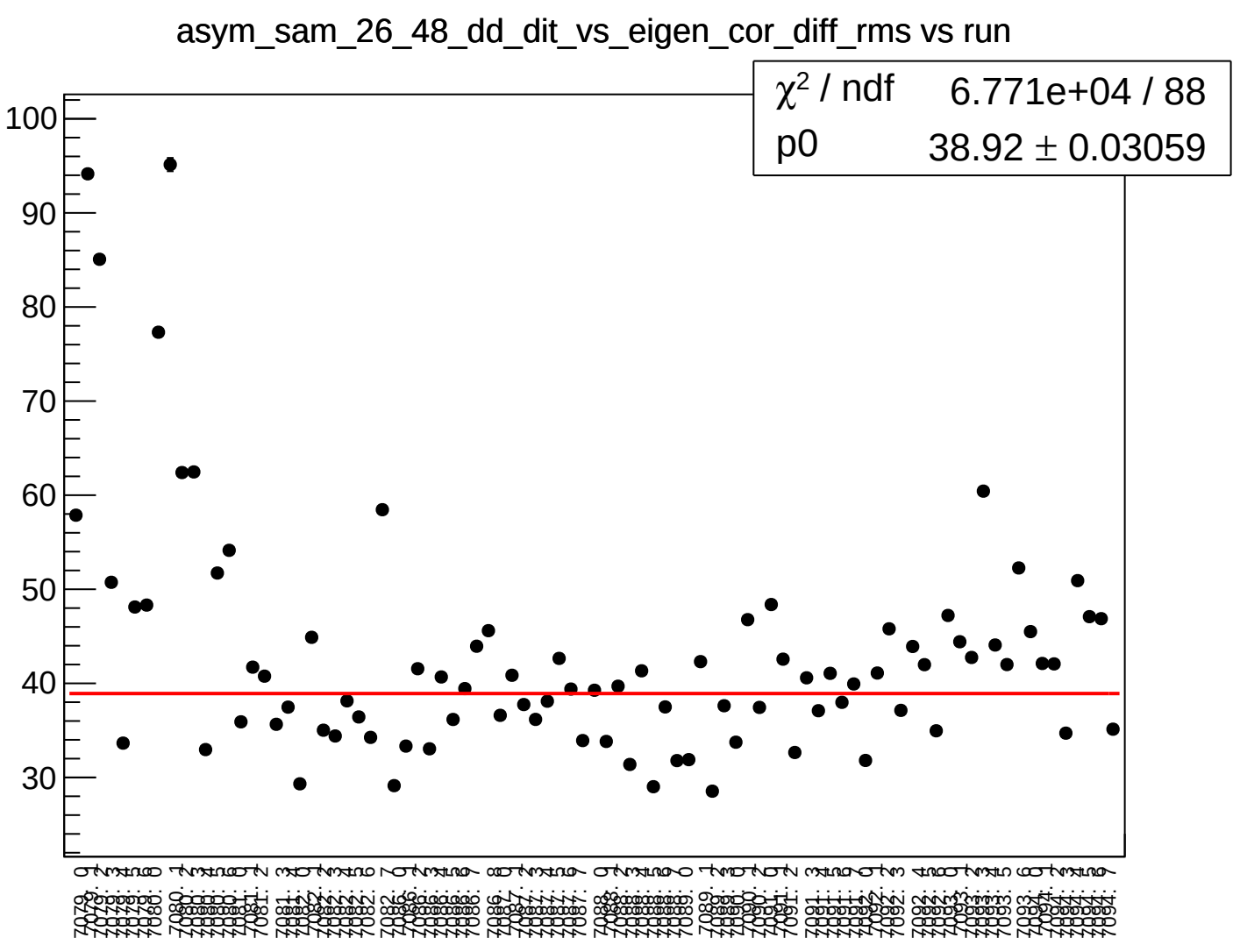

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.81 / 88
p0 −0.03622 ± 0.04326
pull
Entries 89
Mean −343.7
Std Dev 0

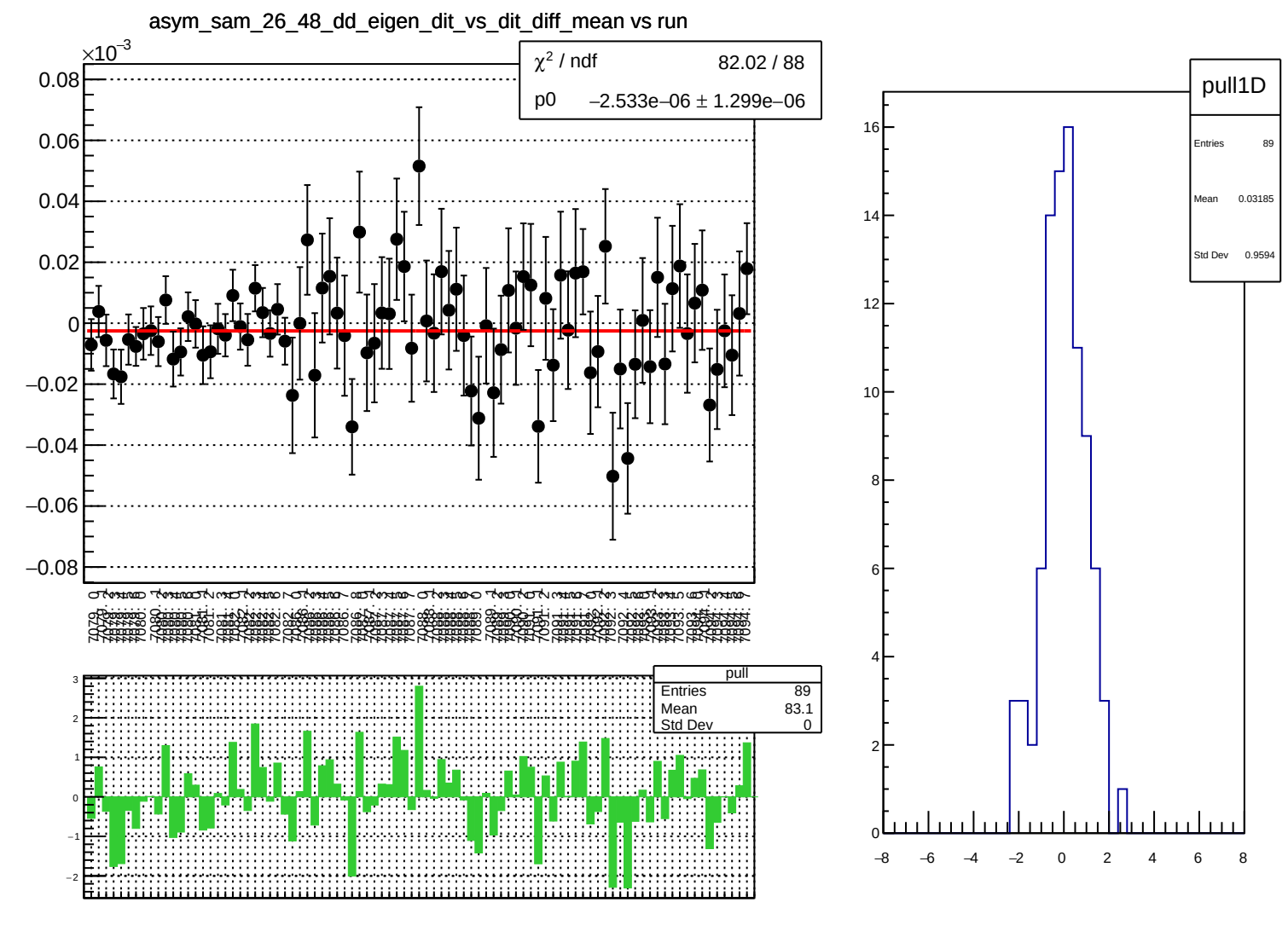

pull1D
Entries 89
Mean −0.008859
Std Dev 0.9876

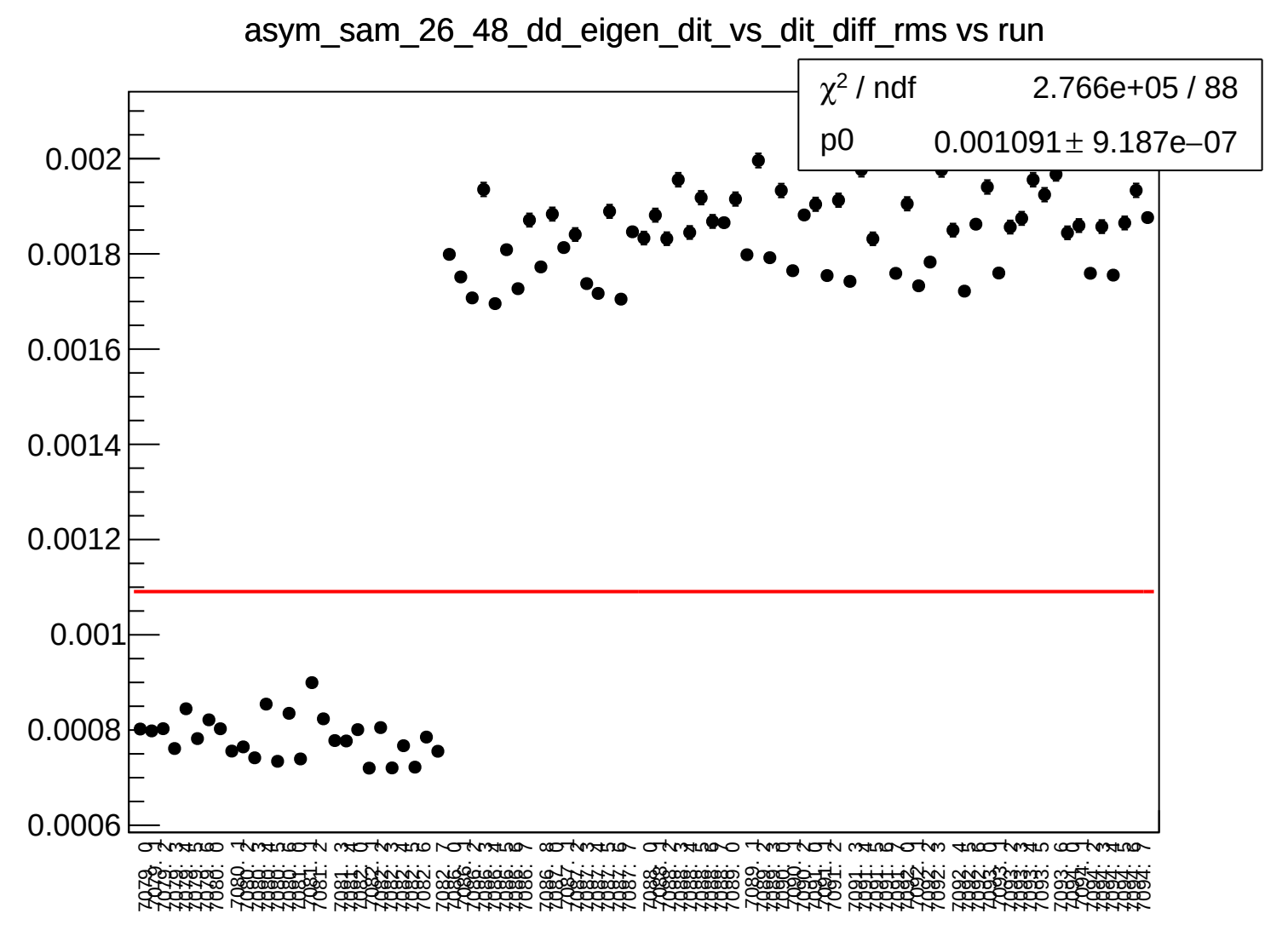

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.771e+04 / 88
p0 38.92 ± 0.03059
100
90
80
70
60
50
40
30

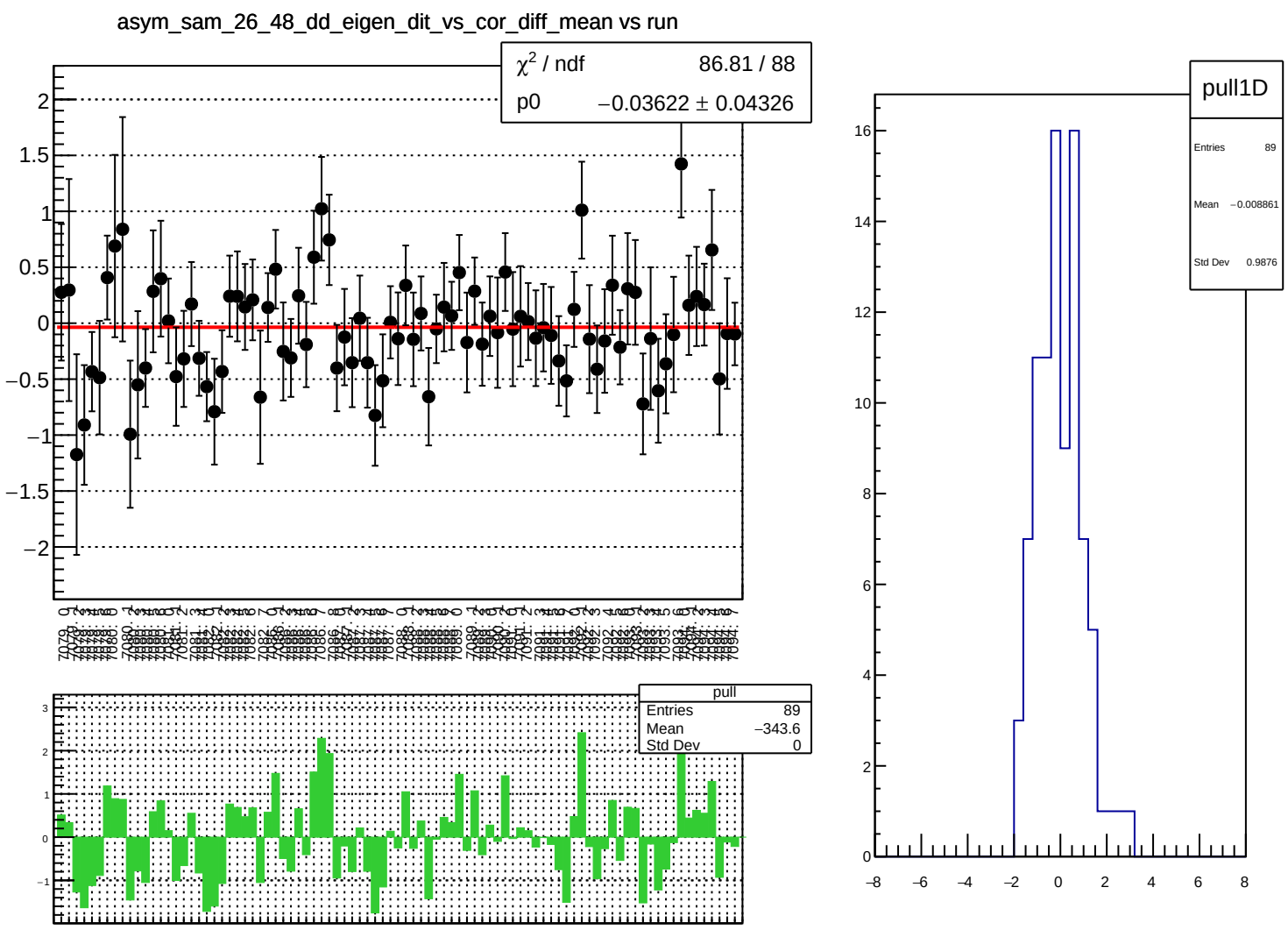

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.81 / 88
p0 −0.03622 ± 0.04326
pull
Entries 89
Mean −343.7
Std Dev 0

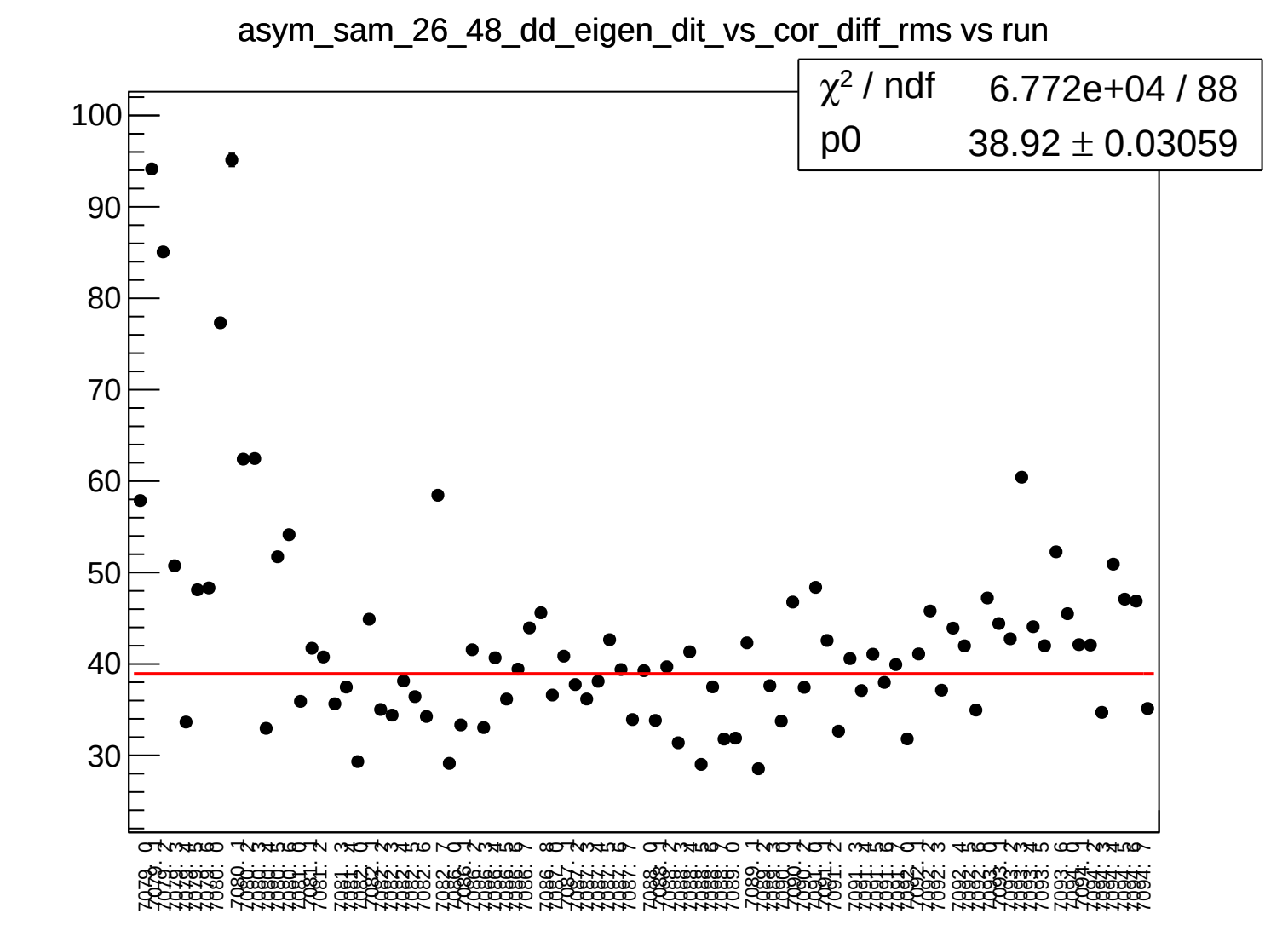

pull1D
Entries 89
Mean −0.008859
Std Dev 0.9876


asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.771e+04 / 88
p0 38.92 ± 0.03059
100
90
80
70
60
50
40
30

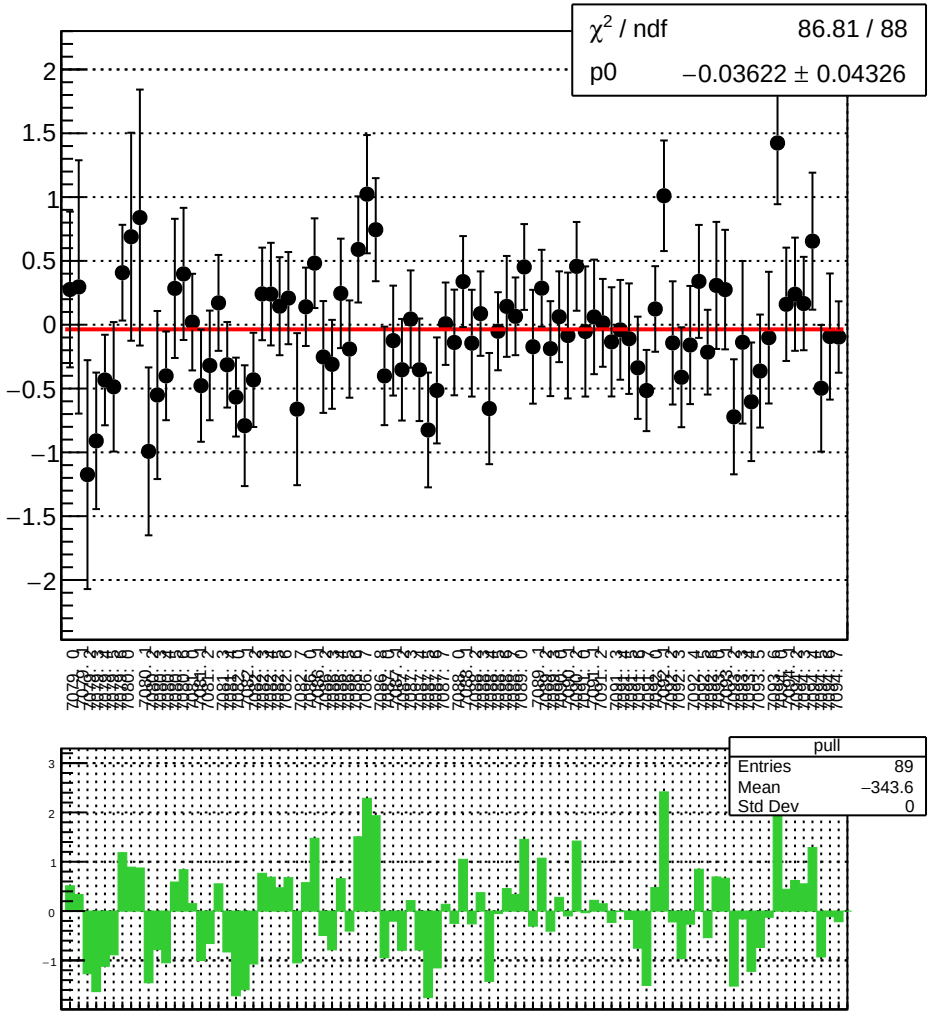

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.02 / 88
p0 −2.533e−06 ± 1.299e−06
pull
Entries 89
Mean 83.1
Std Dev 0
pull1D
Entries 89
Mean 0.03185
Std Dev 0.9594

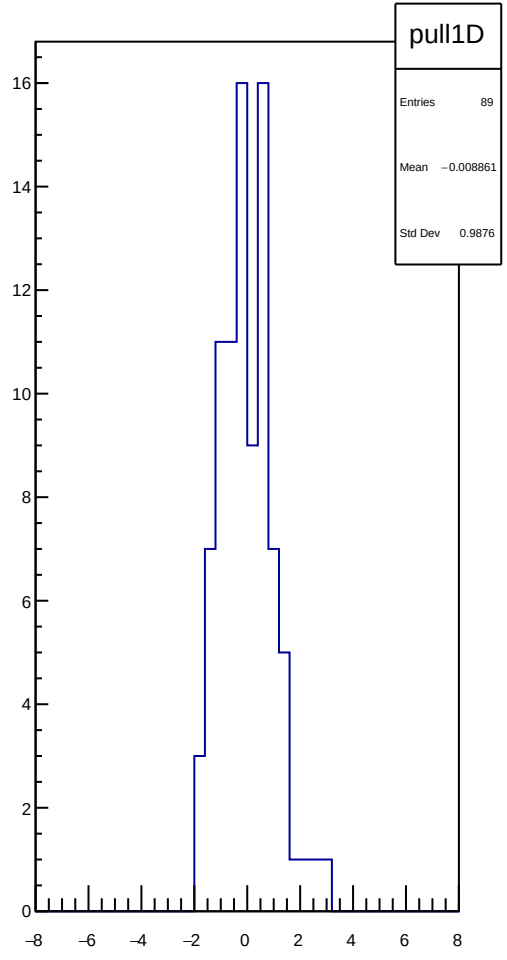

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.766e+05 / 88
p0 0.001091 ± 9.187e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

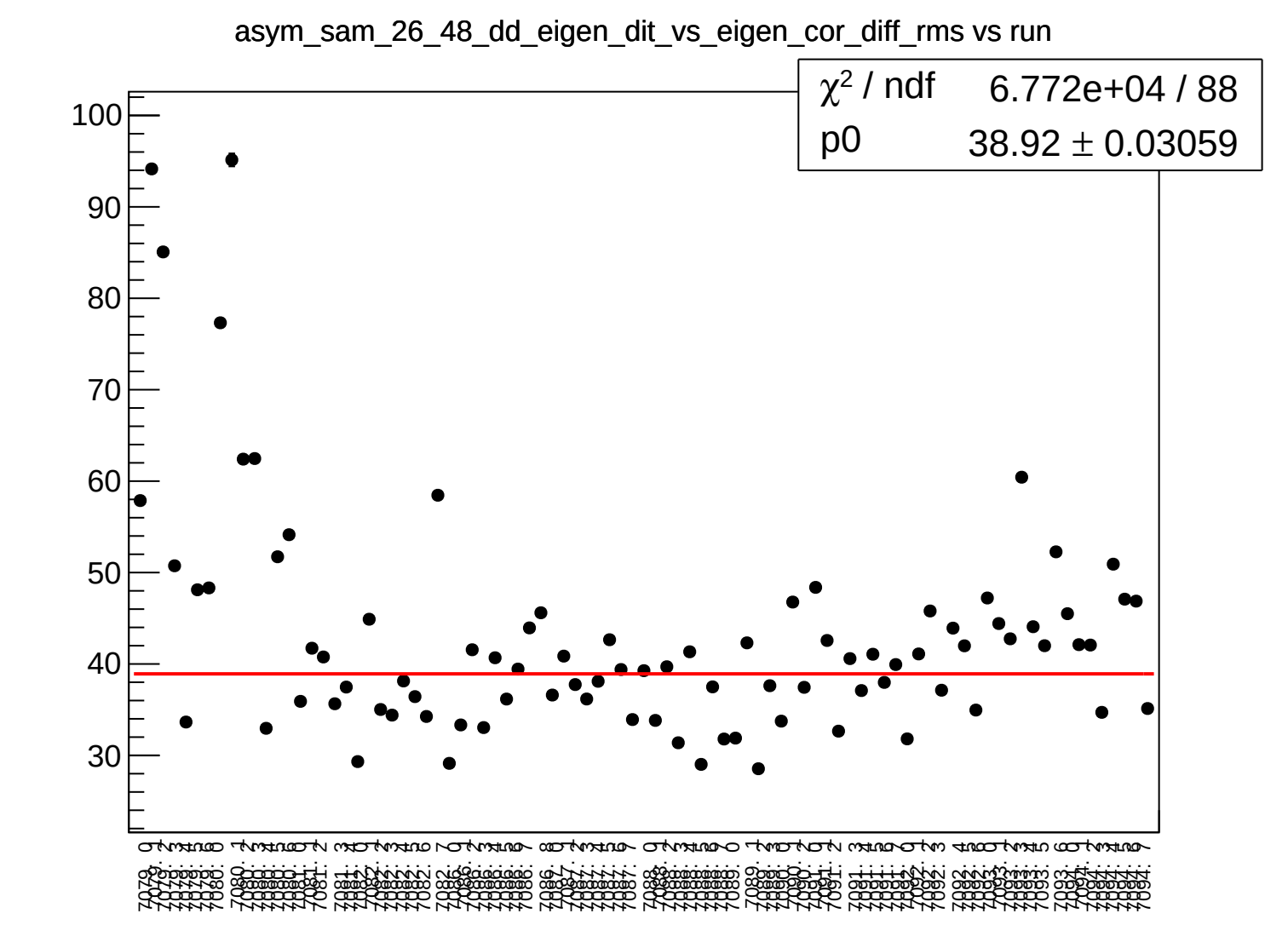

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.81 / 88
p0 −0.03622 ± 0.04326
pull
Entries 89
Mean −343.6
Std Dev 0
pull1D
Entries 89
Mean −0.008861
Std Dev 0.9876

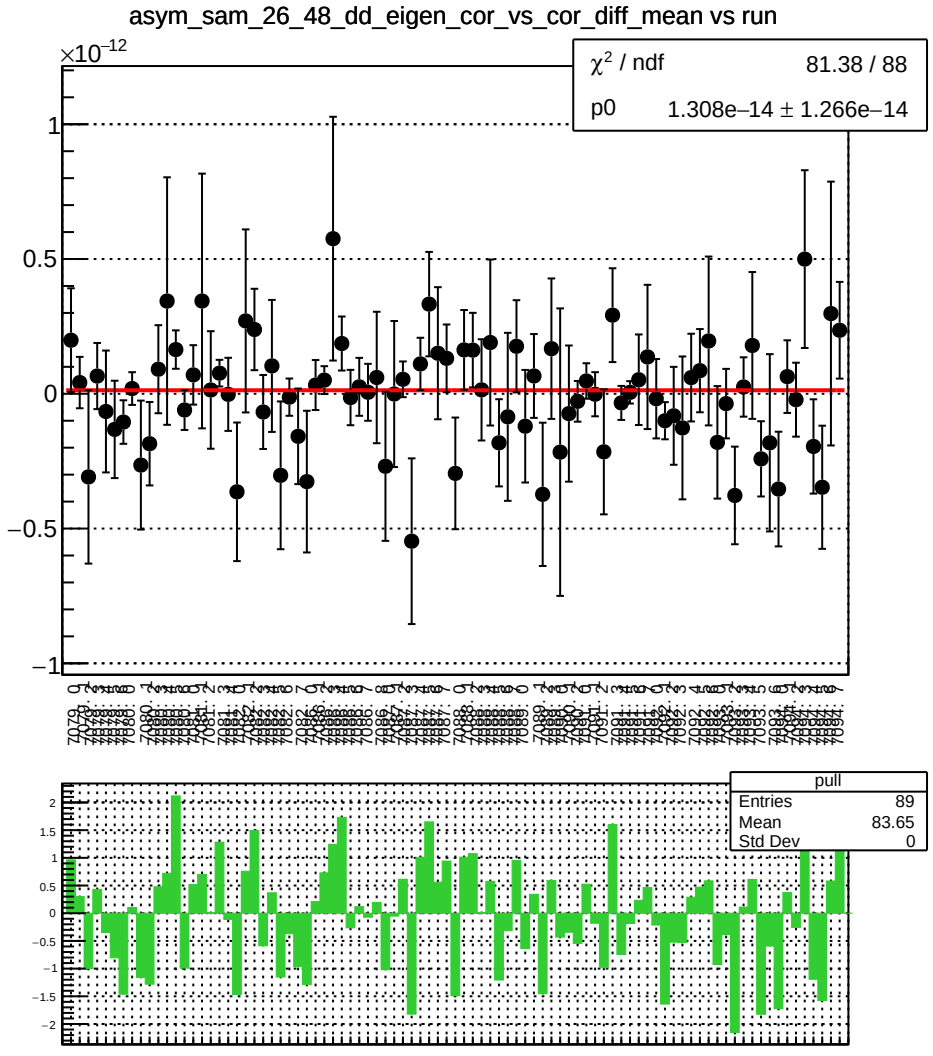

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.772e+04 / 88
p0 38.92 ± 0.03059
100
90
80
70
60
50
40
30

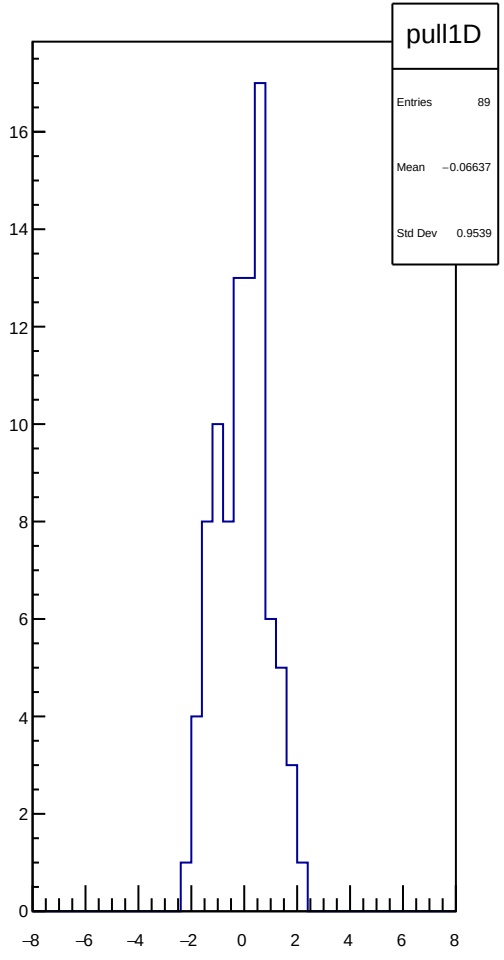
asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

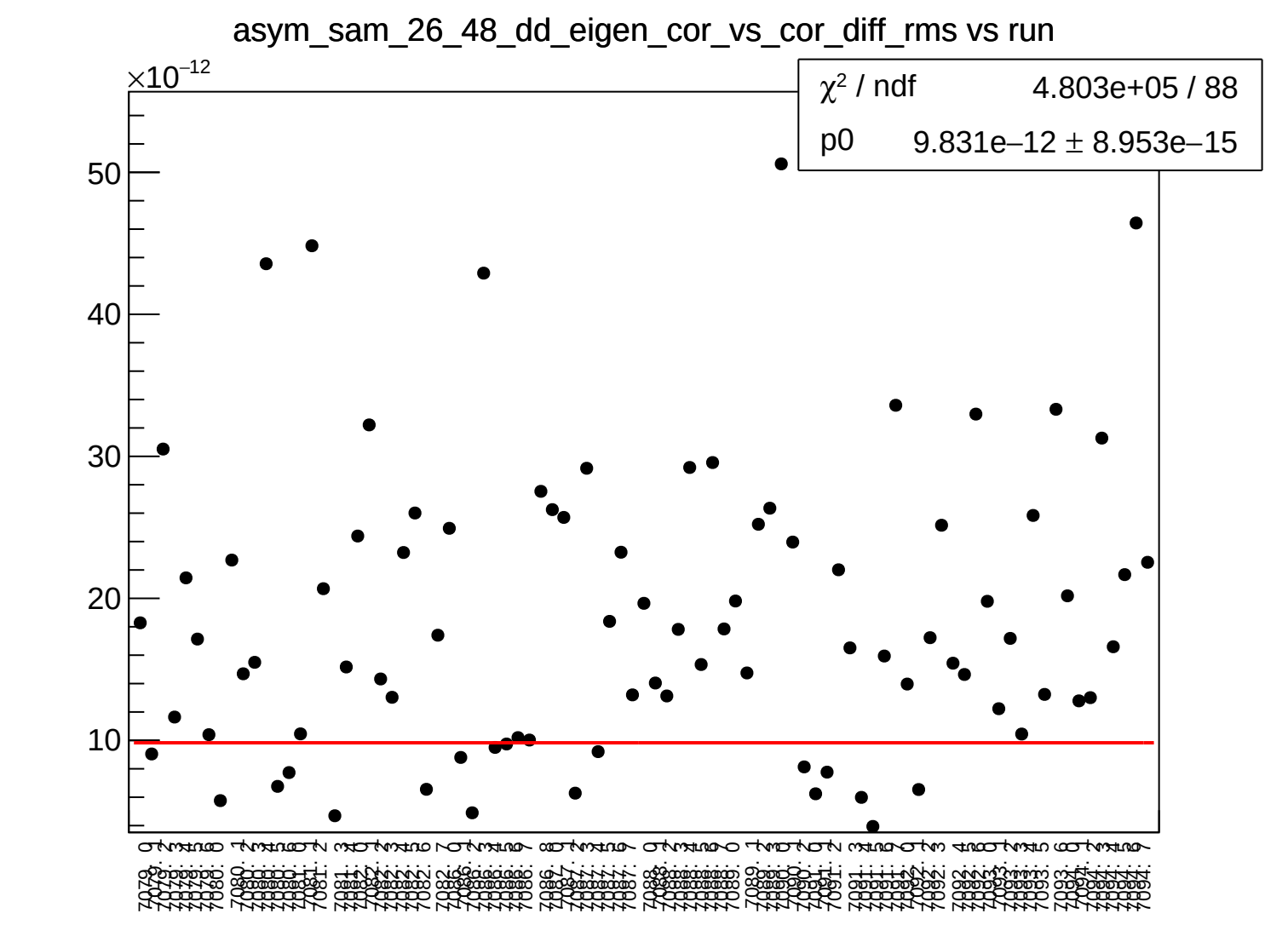


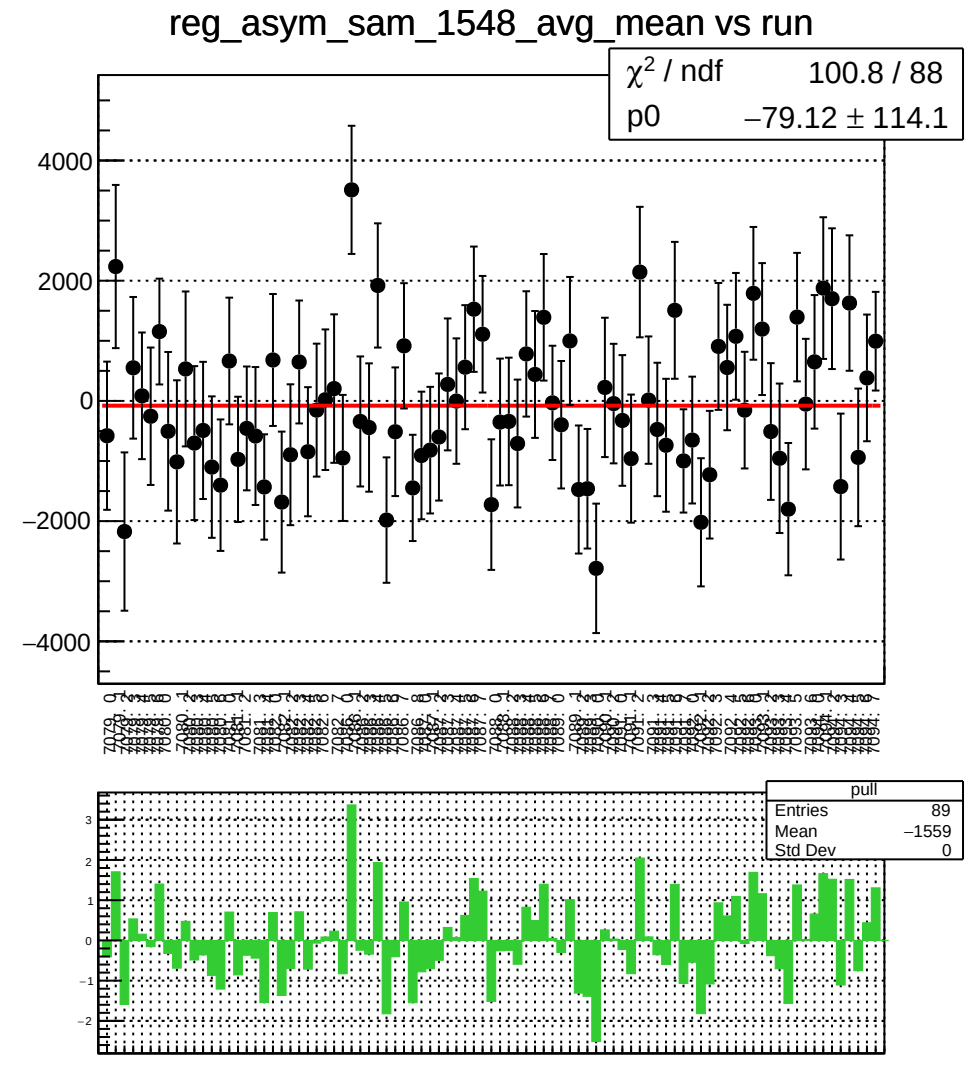


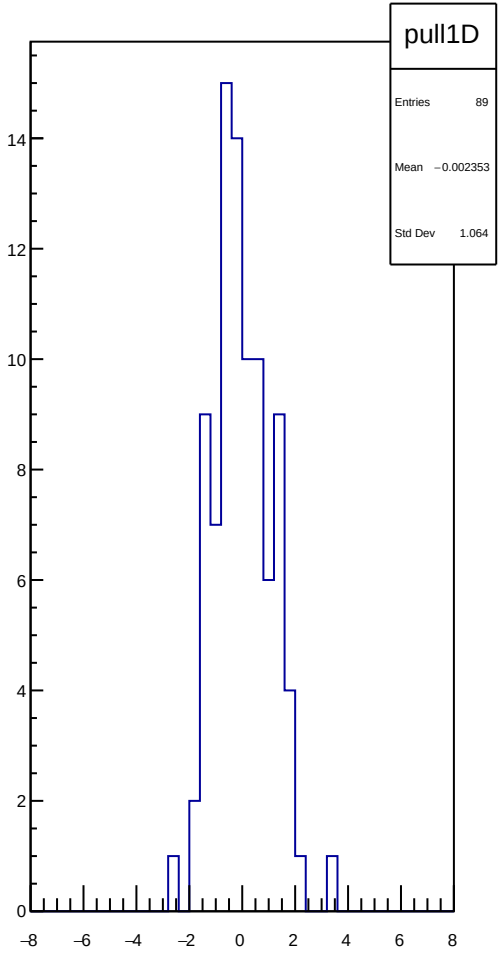

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.772e+04 / 88
p0 38.92 ± 0.03059
100
90
80
70
60
50
40
30

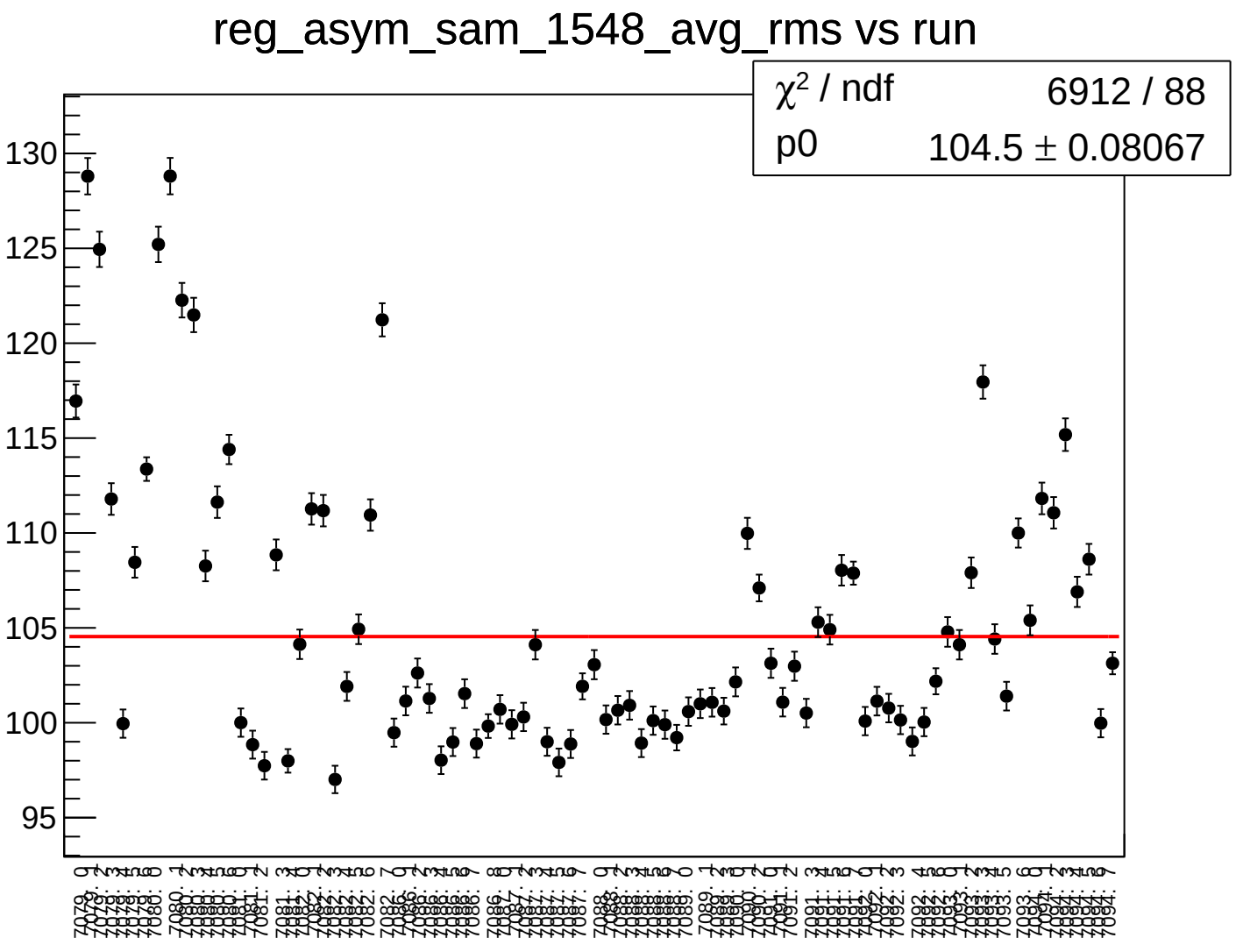

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.38 / 88
p0 1.308e−14 ± 1.266e−14
pull
Entries 89
Mean 83.65
Std Dev 0

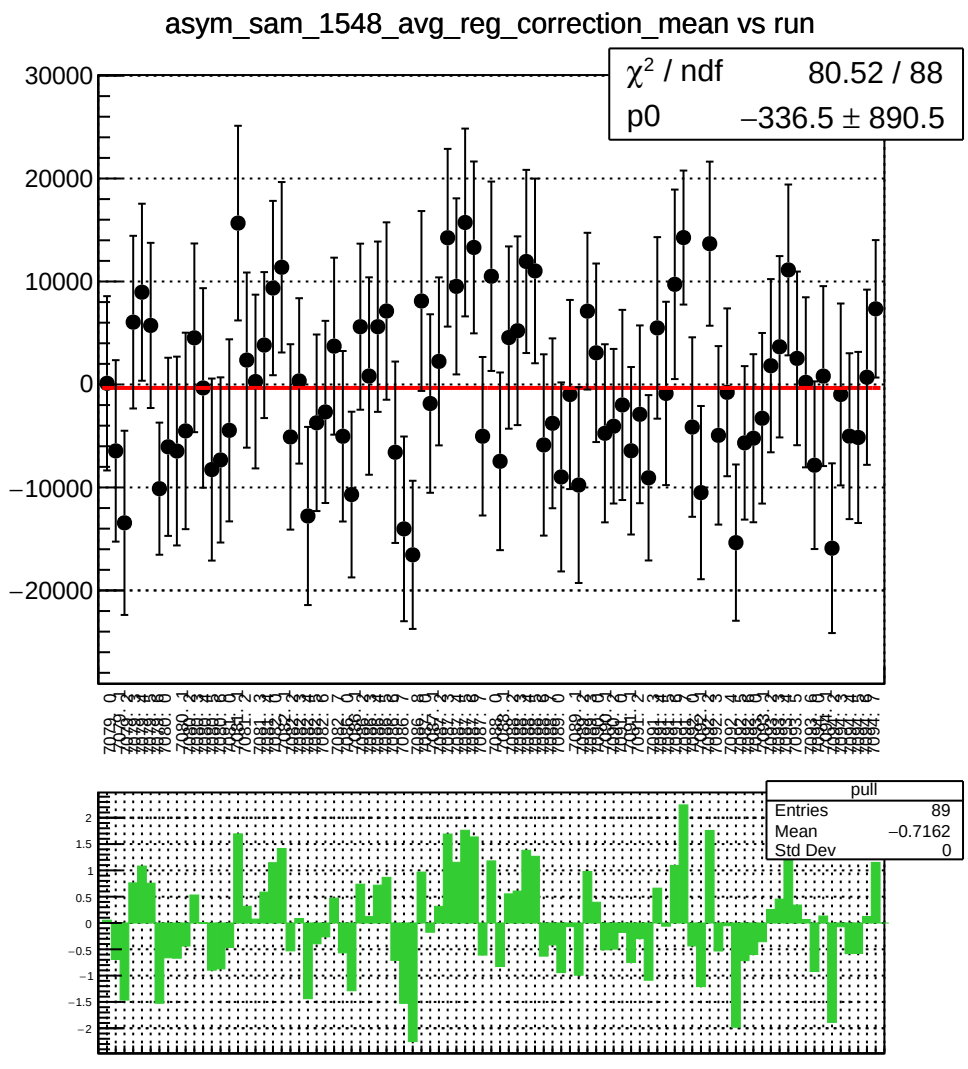

pull1D
Entries 89
Mean −0.06637
Std Dev 0.9539

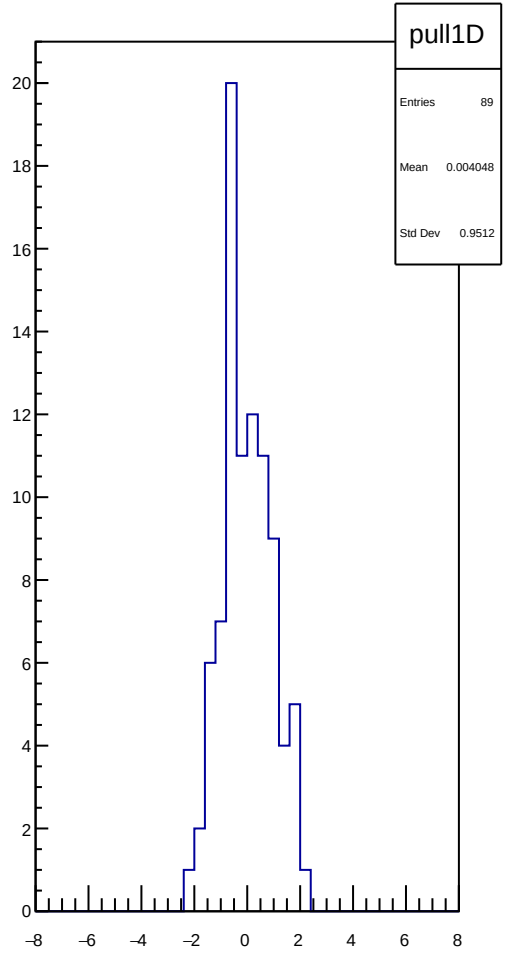

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.803e+05 / 88
p0 9.831e−12 ± 8.953e−15
50
40
30
20
10

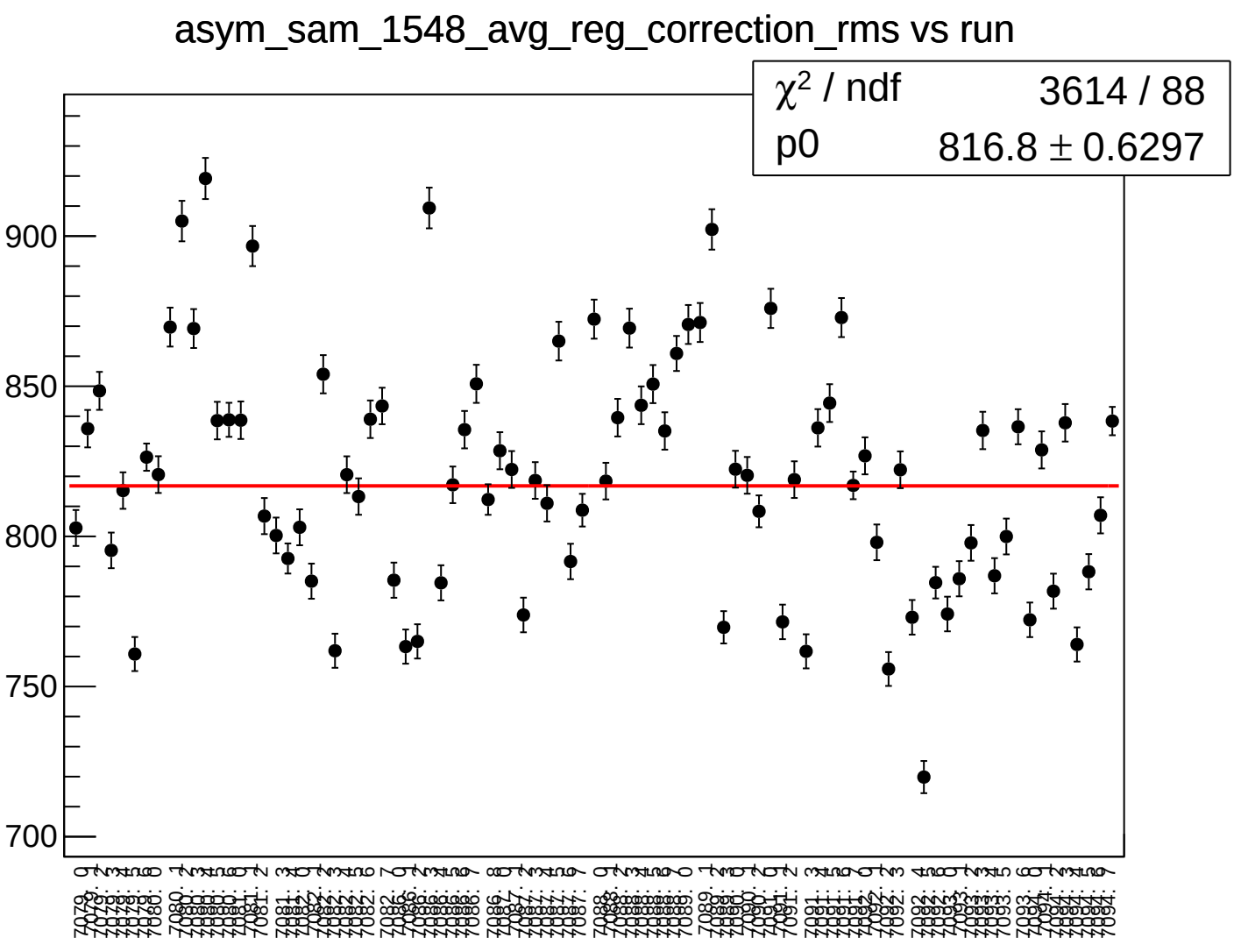

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 100.8 / 88
p0 −79.12 ± 114.1
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −1559
Std Dev 0
3
2
1
0
−1
−2

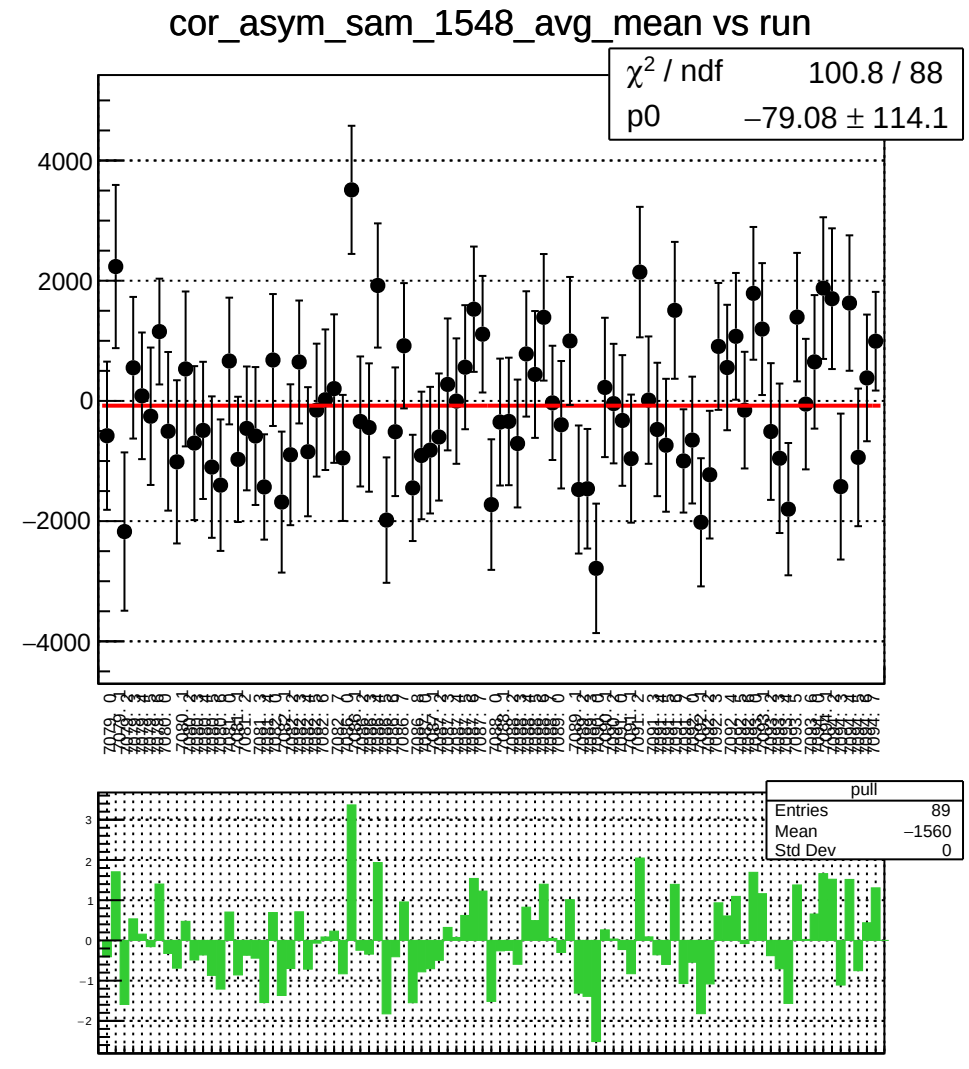

pull1D
Entries 89
Mean −0.002353
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

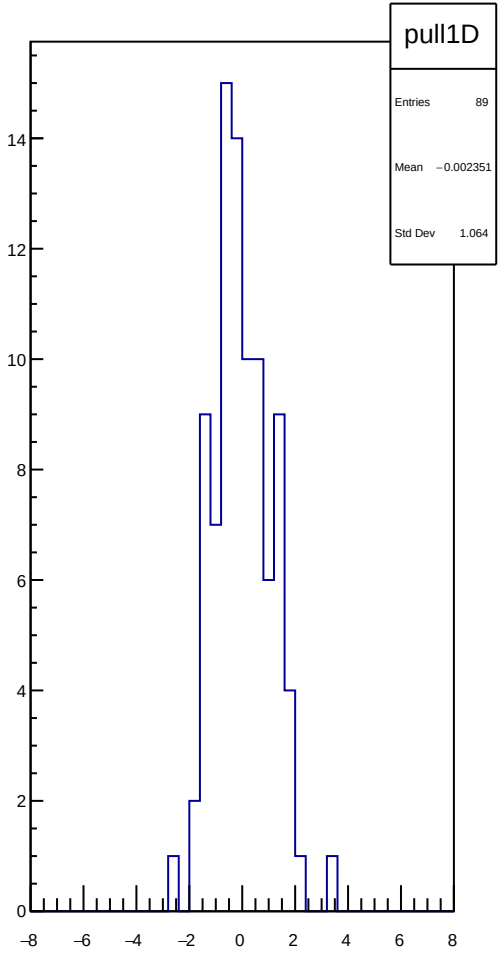

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6912 / 88
p0 104.5 ± 0.08067
130
125
120
115
110
105
100
95

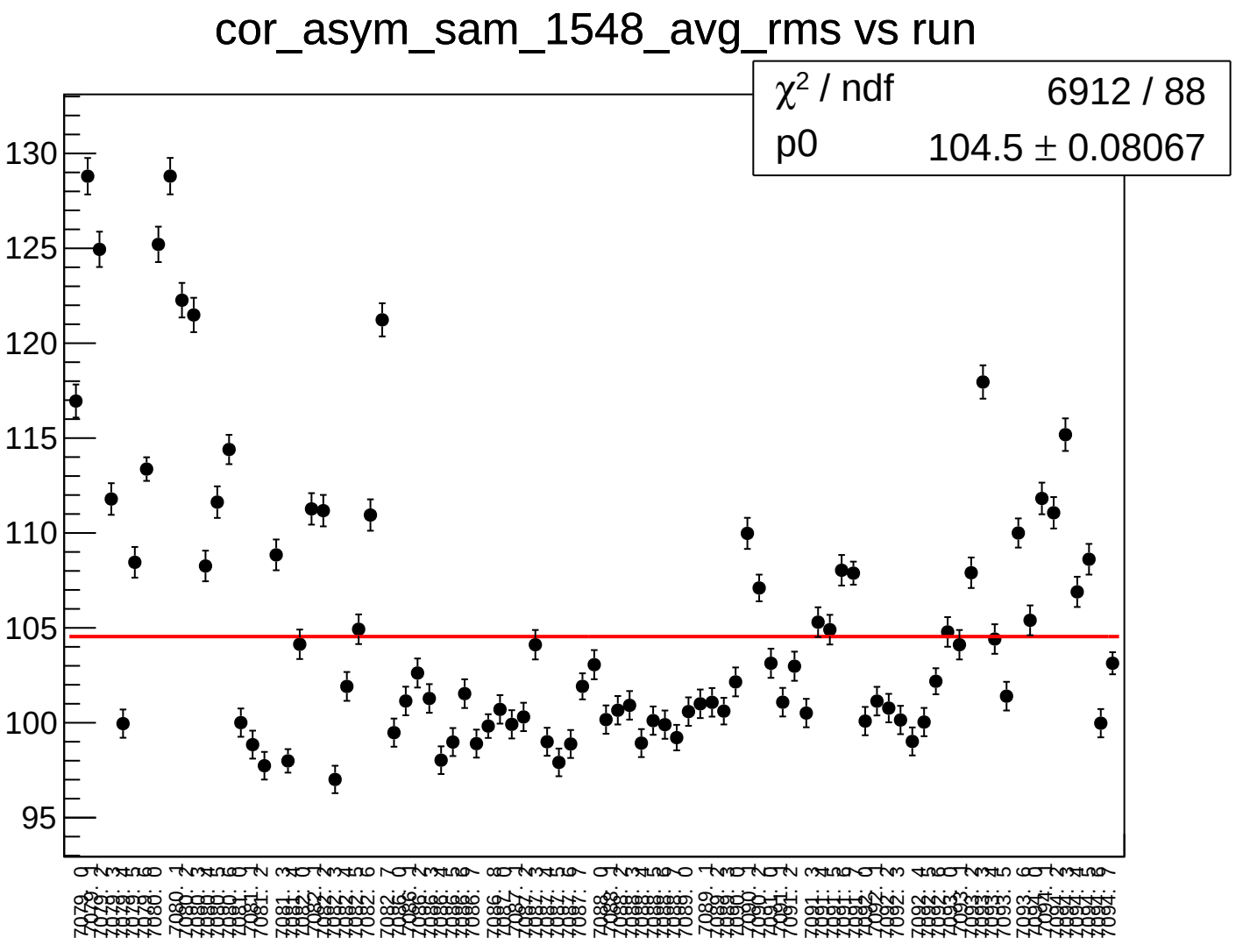

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 80.52 / 88
p0 −336.5 ± 890.5
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −0.7162
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

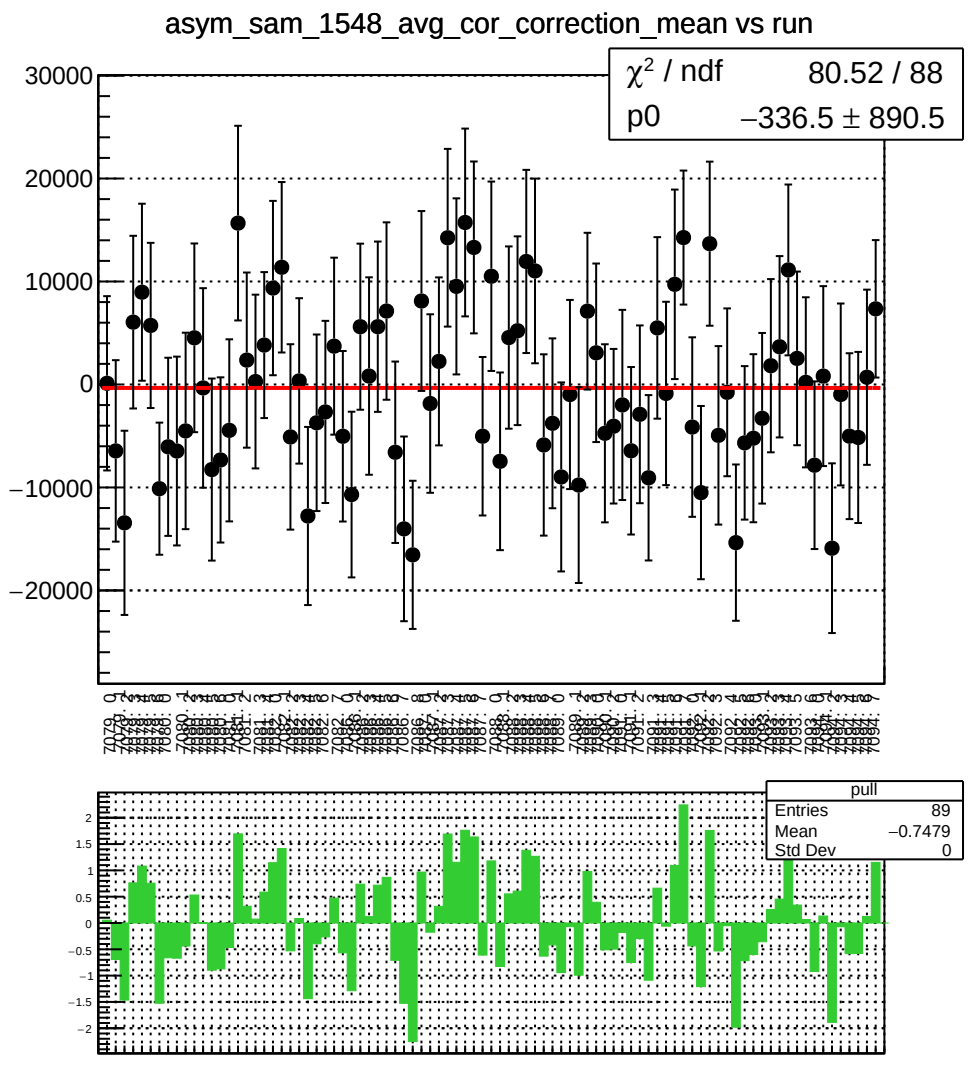

pull1D
Entries 89
Mean 0.004048
Std Dev 0.9512
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

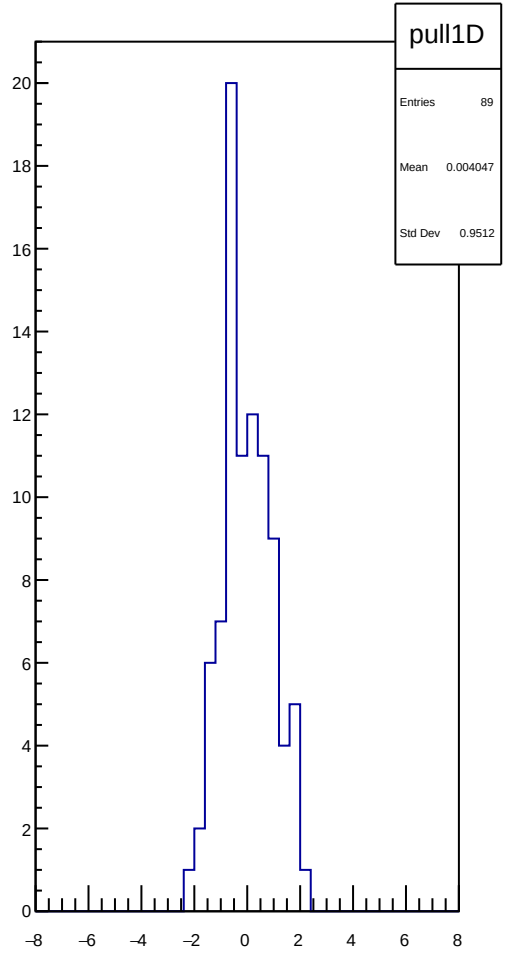

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 3614 / 88
p0 816.8 ± 0.6297
900
850
800
750
700

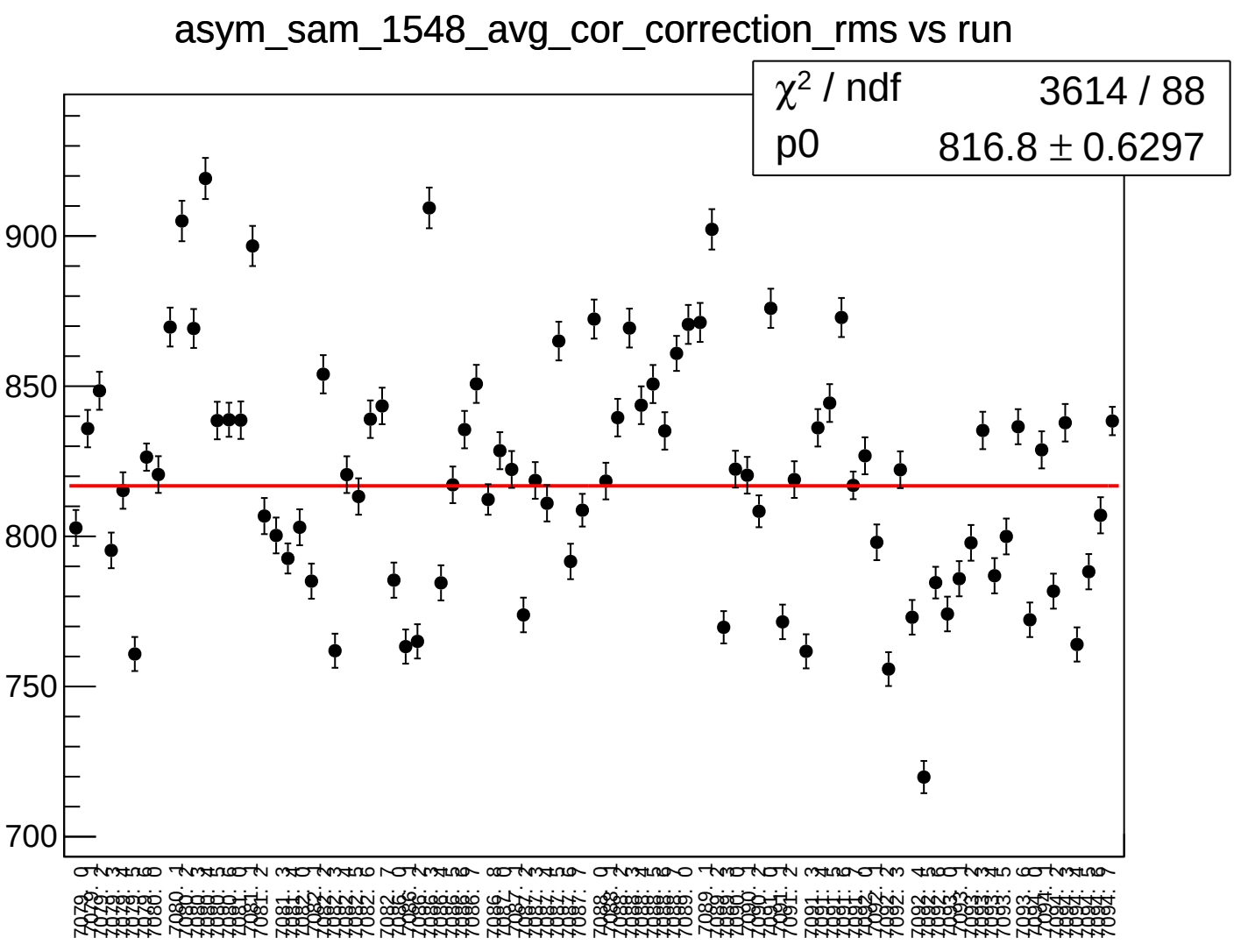

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 100.8 / 88
p0 −79.08 ± 114.1
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −1560
Std Dev 0
3
2
1
0
−1
−2

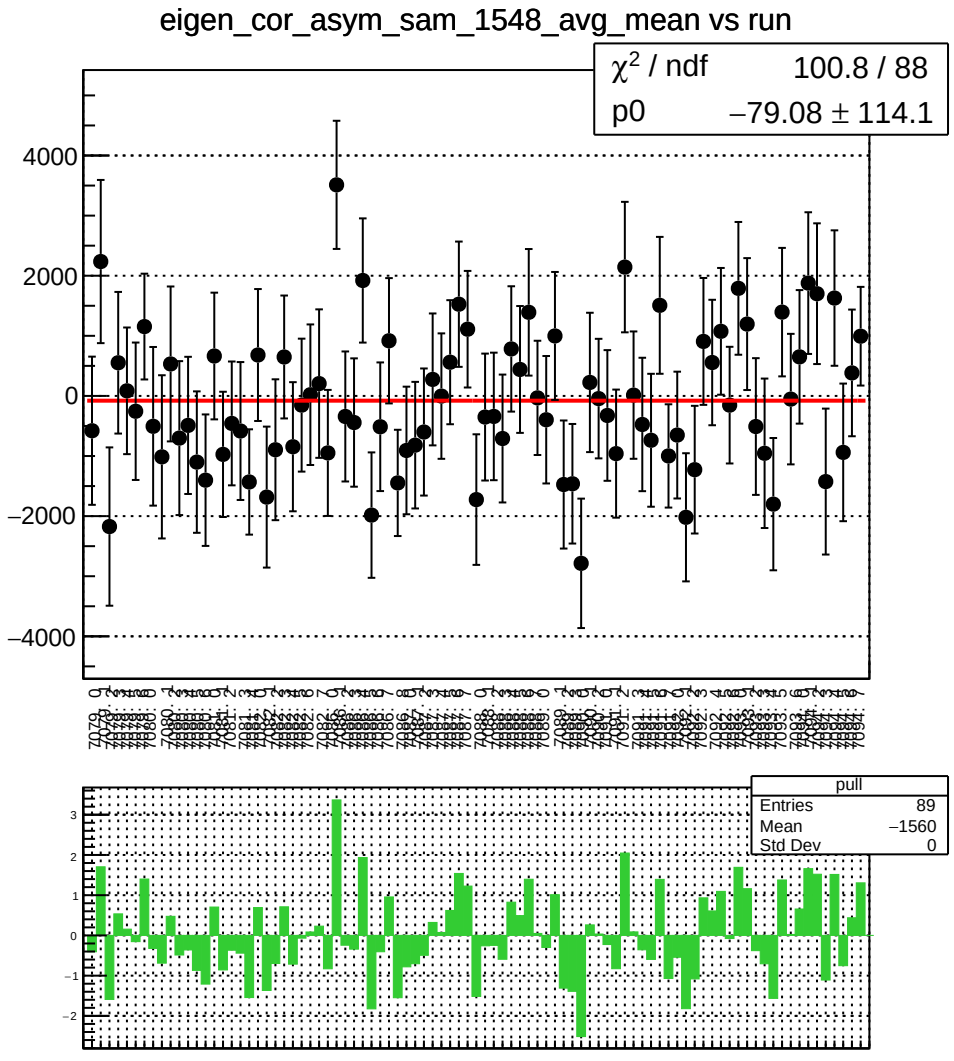

pull1D
Entries 89
Mean −0.002351
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

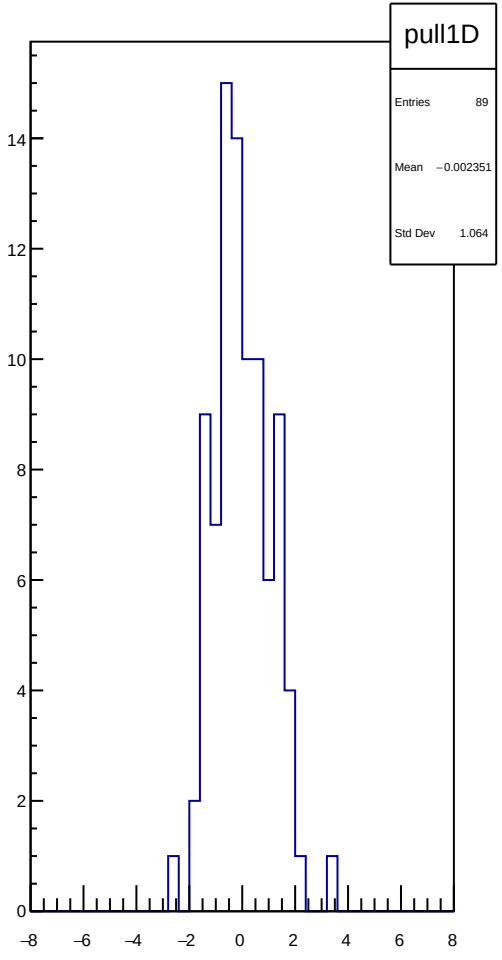

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6912 / 88
p0 104.5 ± 0.08067
130
125
120
115
110
105
100
95

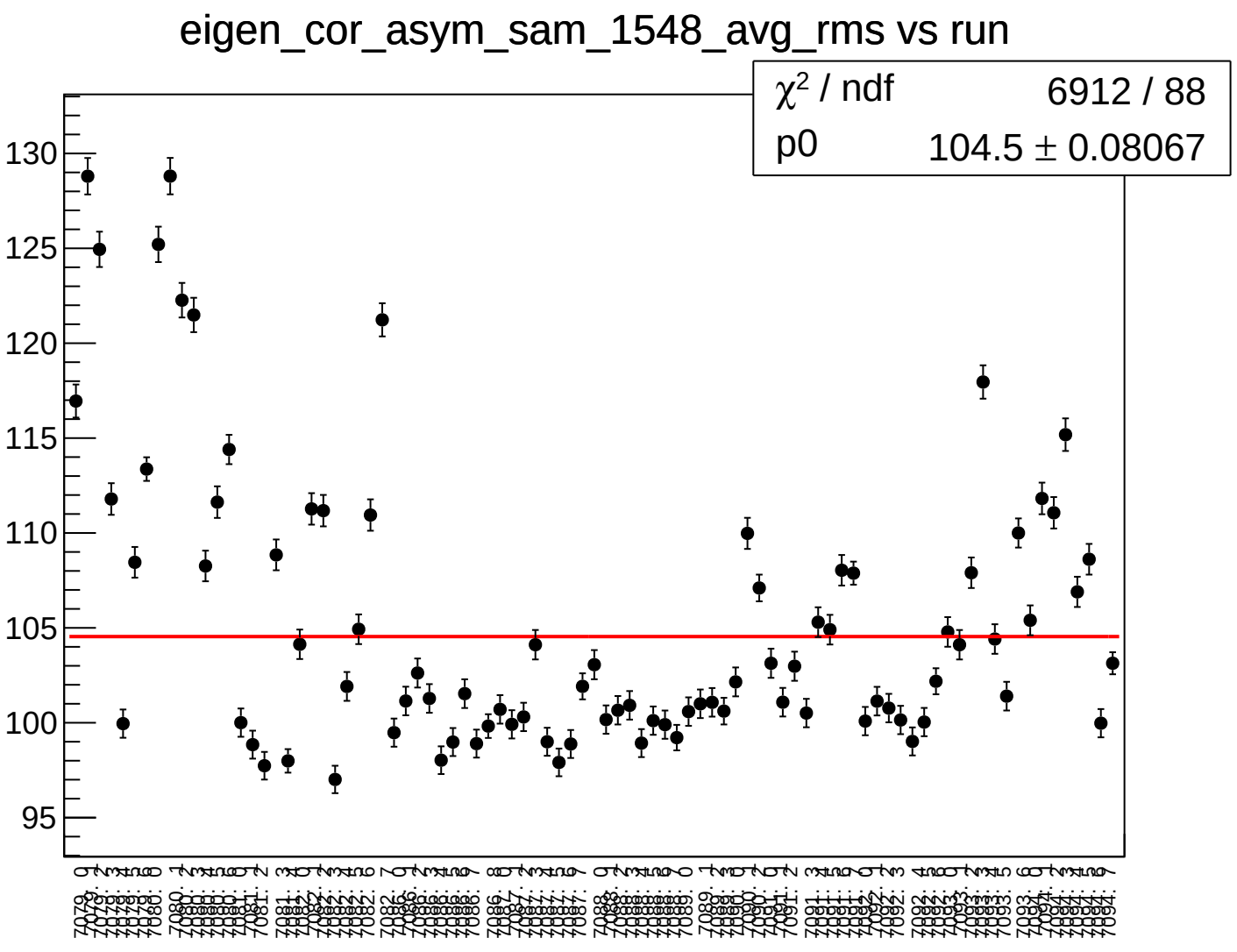

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 80.52 / 88
p0 −336.5 ± 890.5
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −0.7479
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

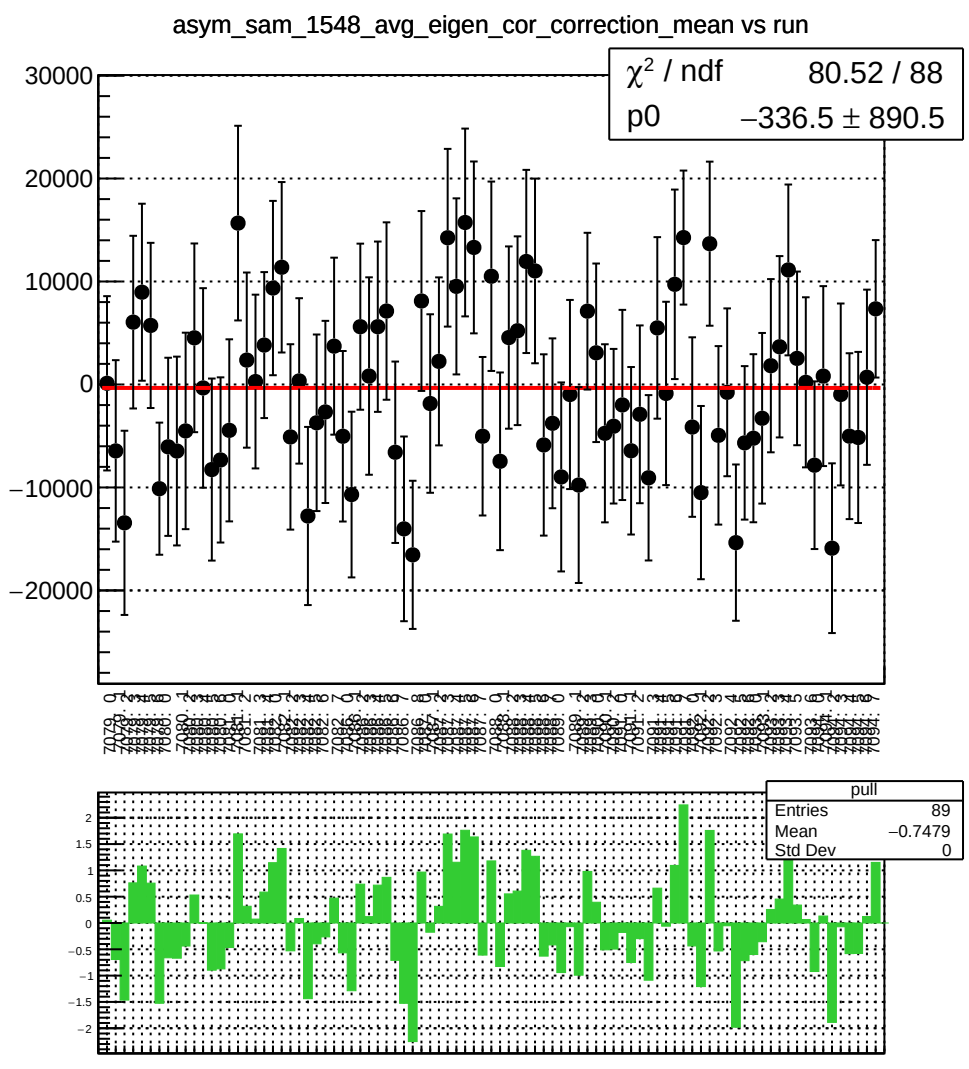

pull1D
Entries 89
Mean 0.004047
Std Dev 0.9512
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

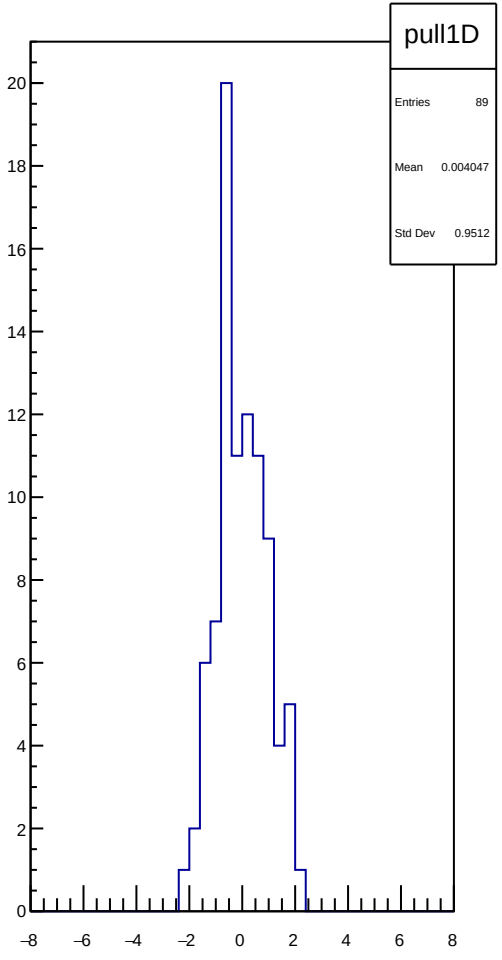

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 3614 / 88
p0 816.8 ± 0.6297
900
850
800
750
700

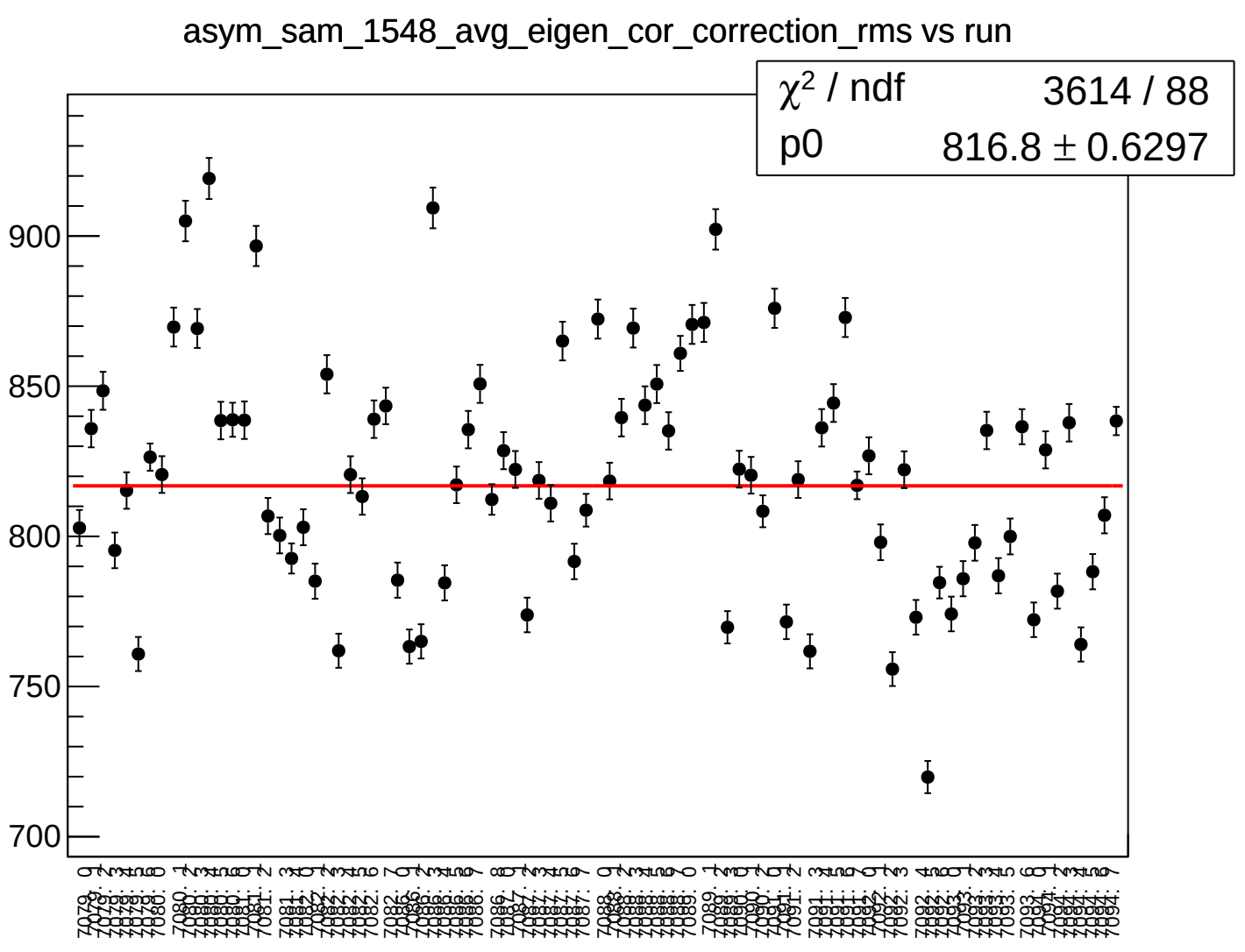

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 100.8 / 88
p0 −79.08 ± 114.1
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −1560
Std Dev 0
3
2
1
0
−1
−2

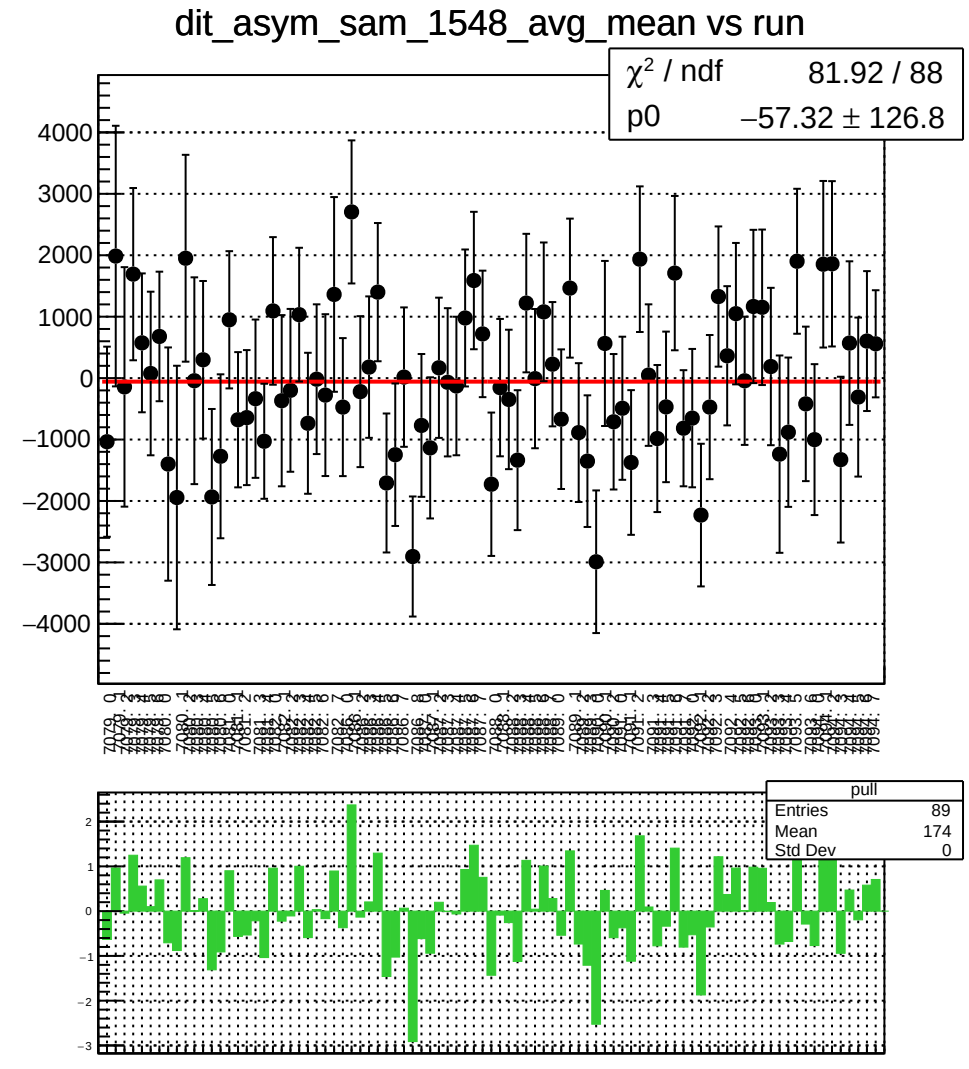

pull1D
Entries 89
Mean −0.002351
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

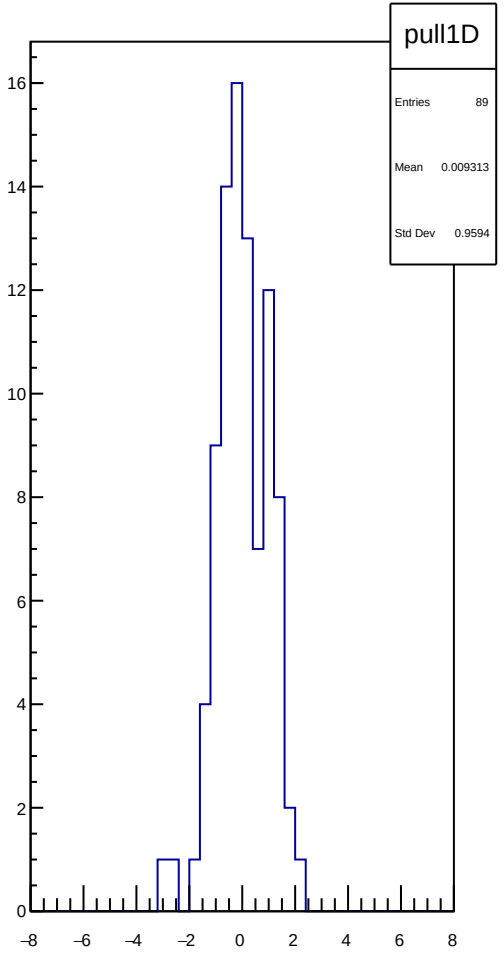

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 6912 / 88
p0 104.5 ± 0.08067
130
125
120
115
110
105
100
95

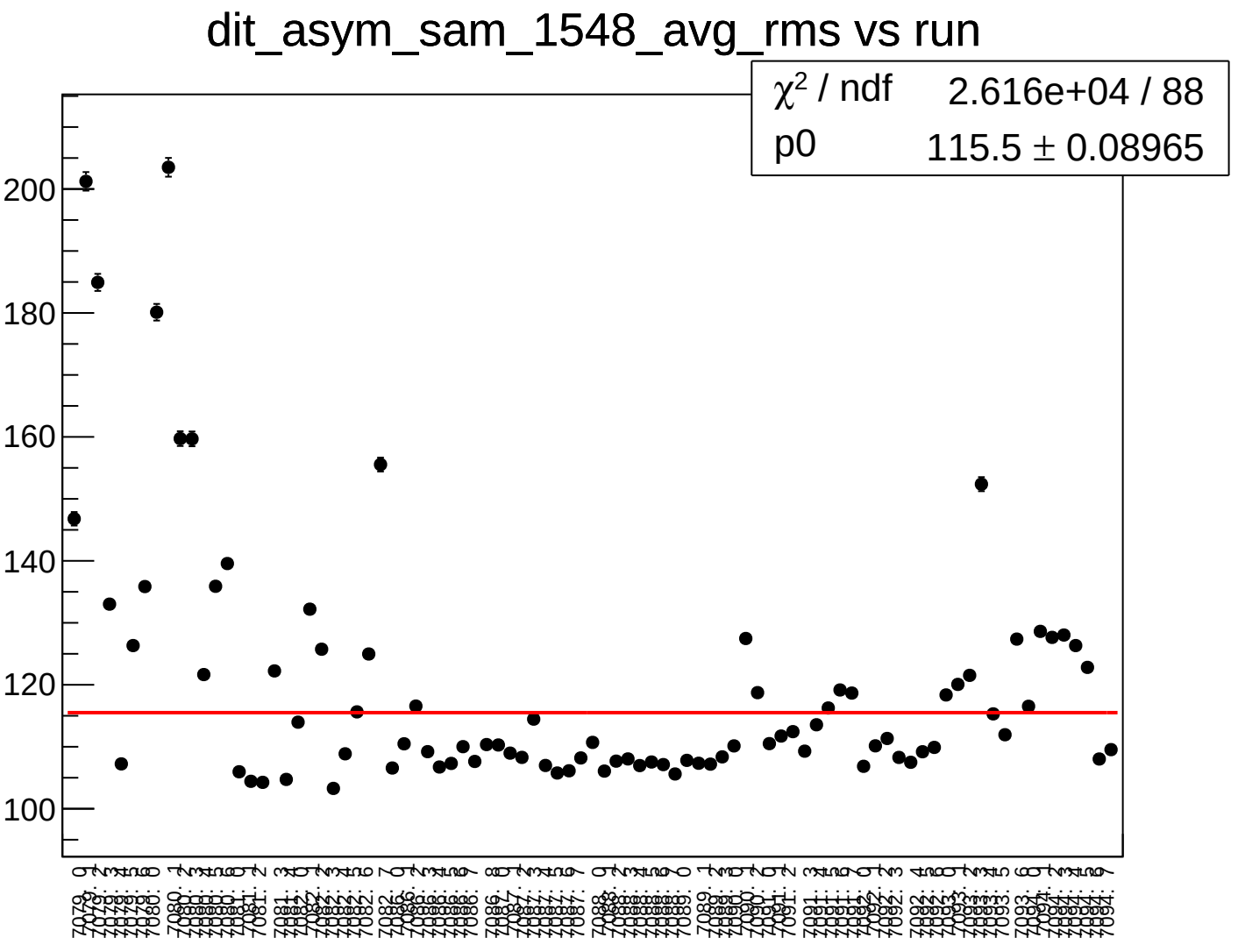

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.52 / 88
p0 −336.5 ± 890.5
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −0.7479
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

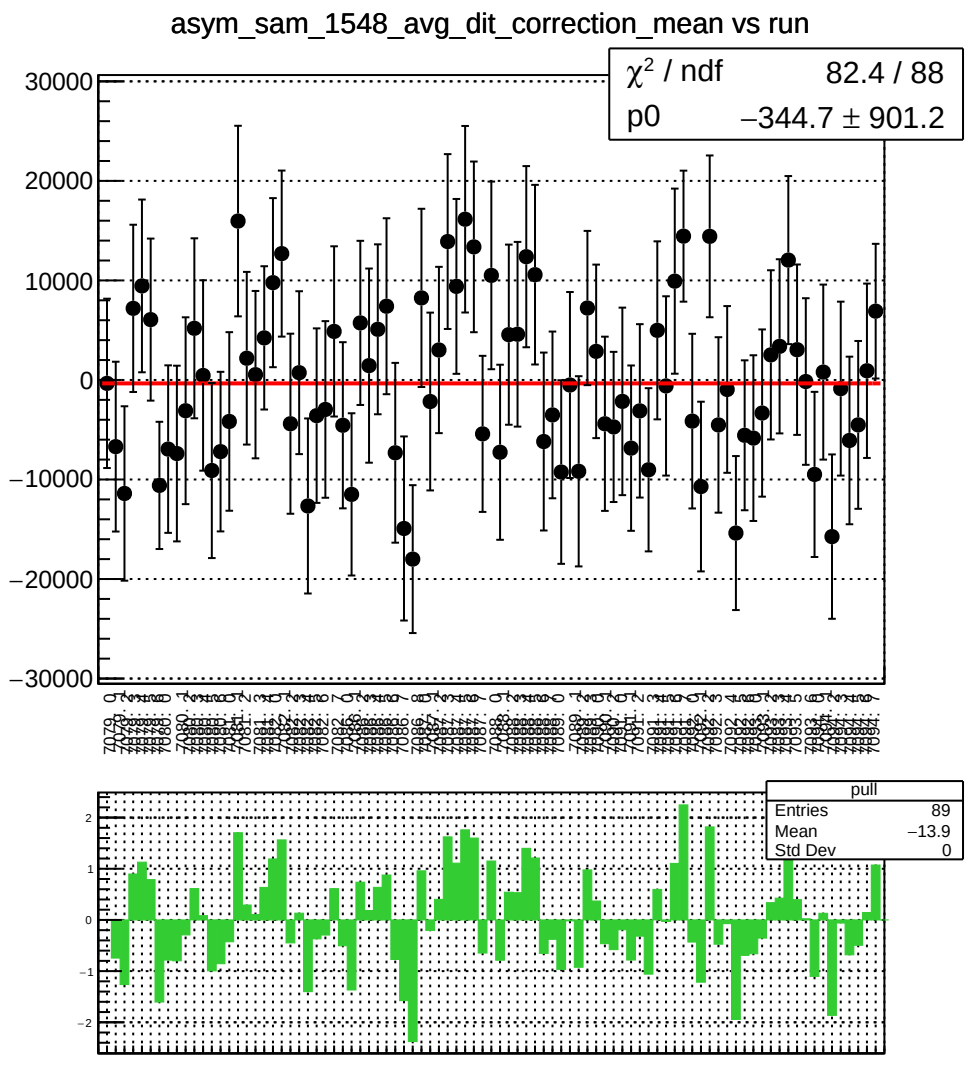

pull1D
Entries 89
Mean 0.004047
Std Dev 0.9512
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

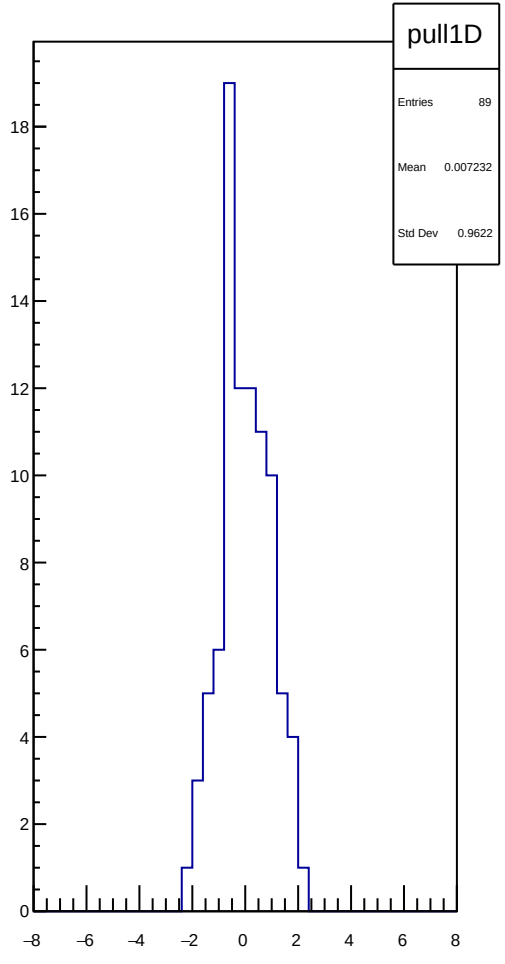

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 3614 / 88
p0 816.8 ± 0.6297
900
850
800
750
700

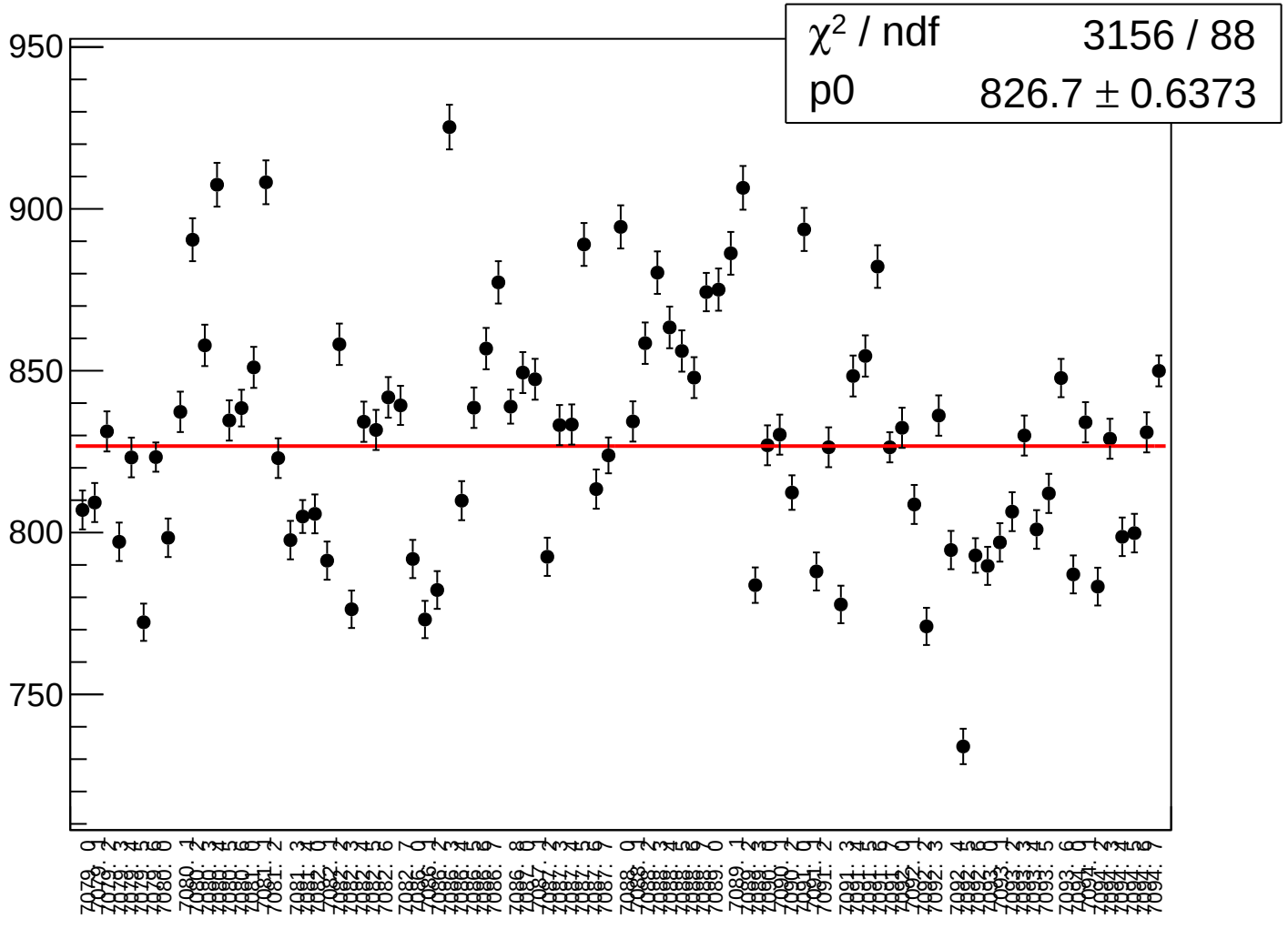

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 81.92 / 88
p0 −57.32 ± 126.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean 174
Std Dev 0
2
1
0
−1
−2
−3

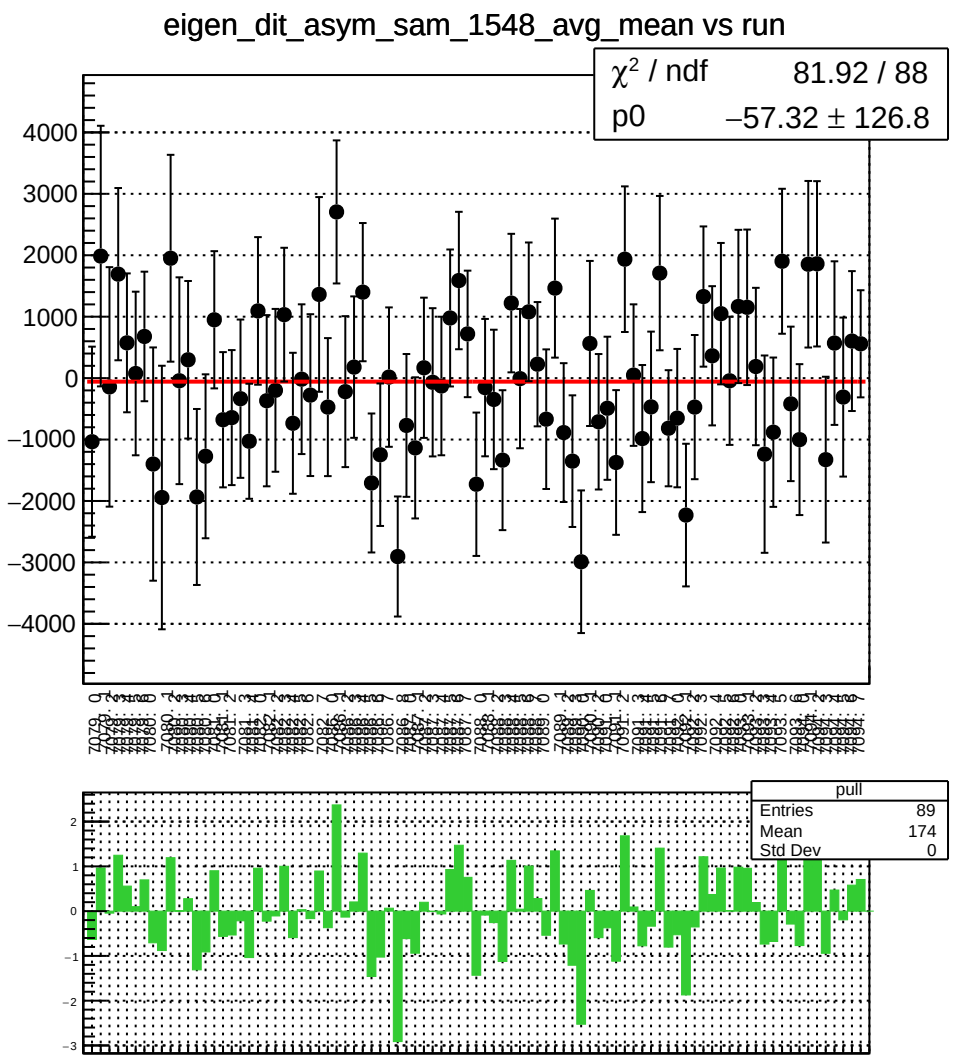

pull1D
Entries 89
Mean 0.009313
Std Dev 0.9594
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

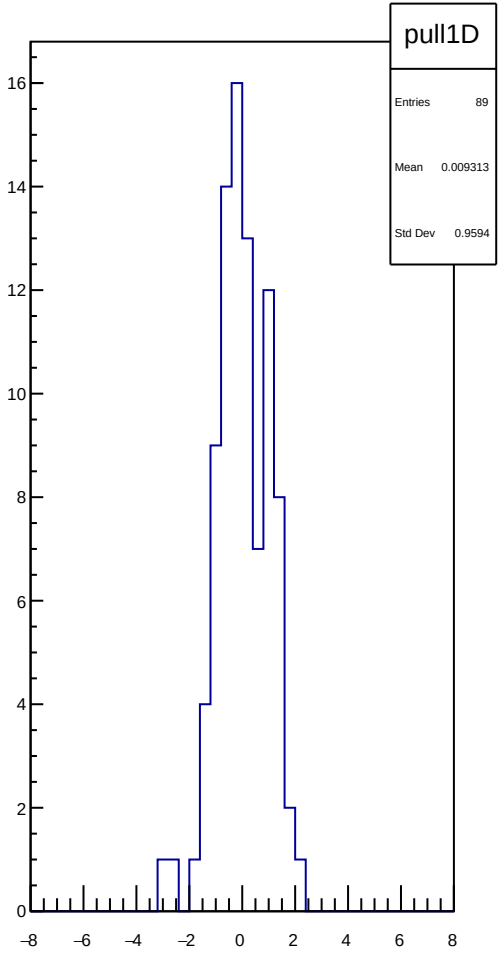

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.616e+04 / 88
p0 115.5 ± 0.08965
200
180
160
140
120
100

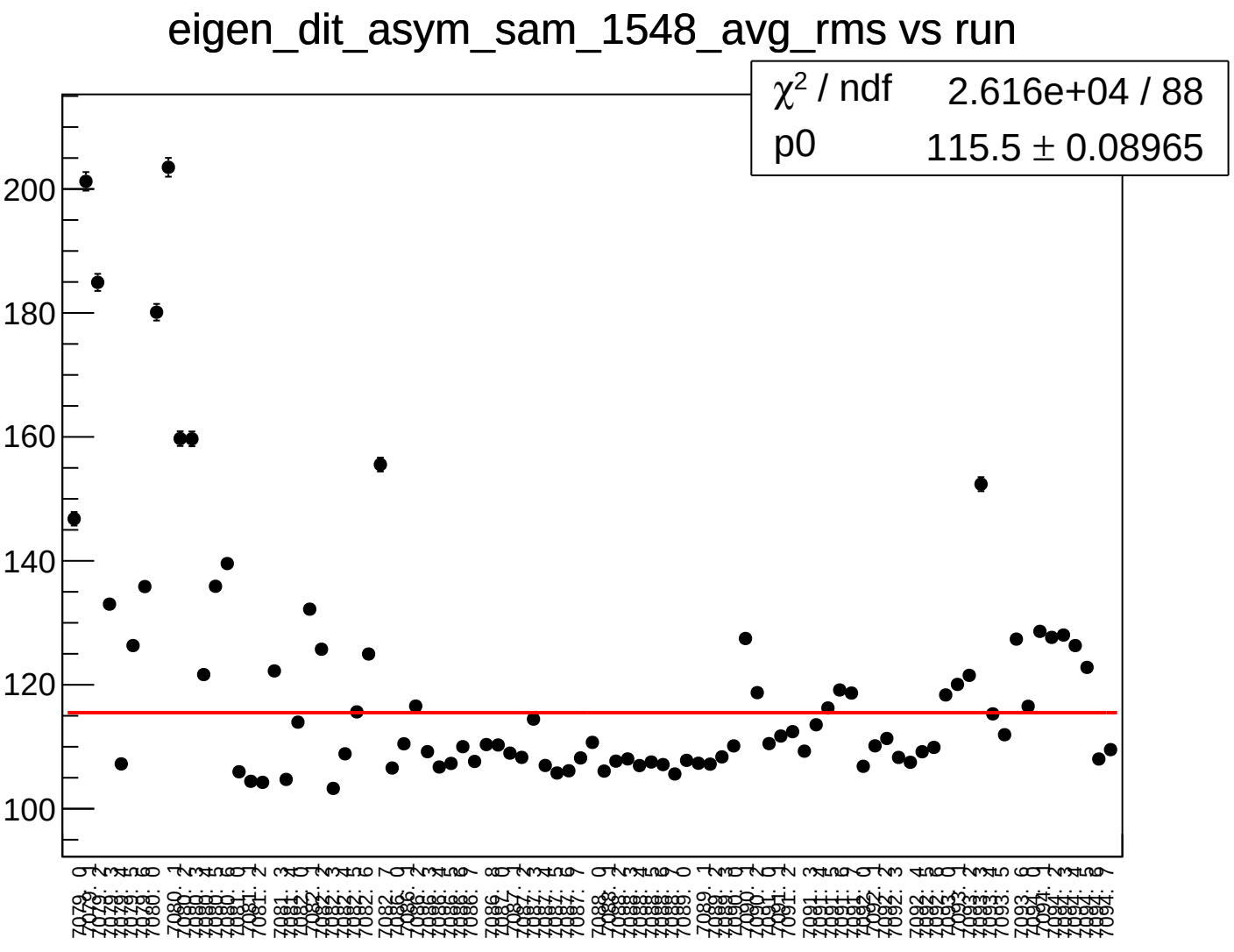

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 82.4 / 88
p0 −344.7 ± 901.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −13.9
Std Dev 0
2
1
0
−1
−2

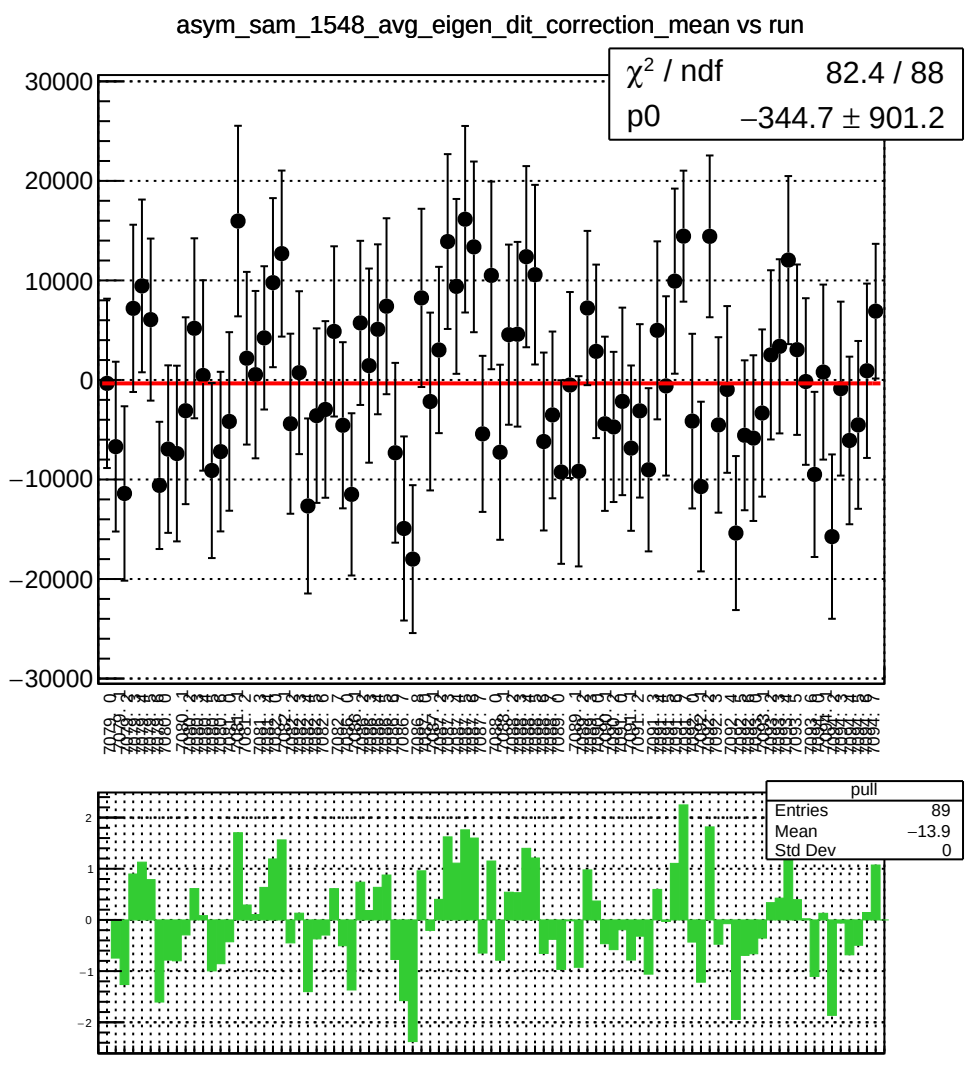

pull1D
Entries 89
Mean 0.007232
Std Dev 0.9622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

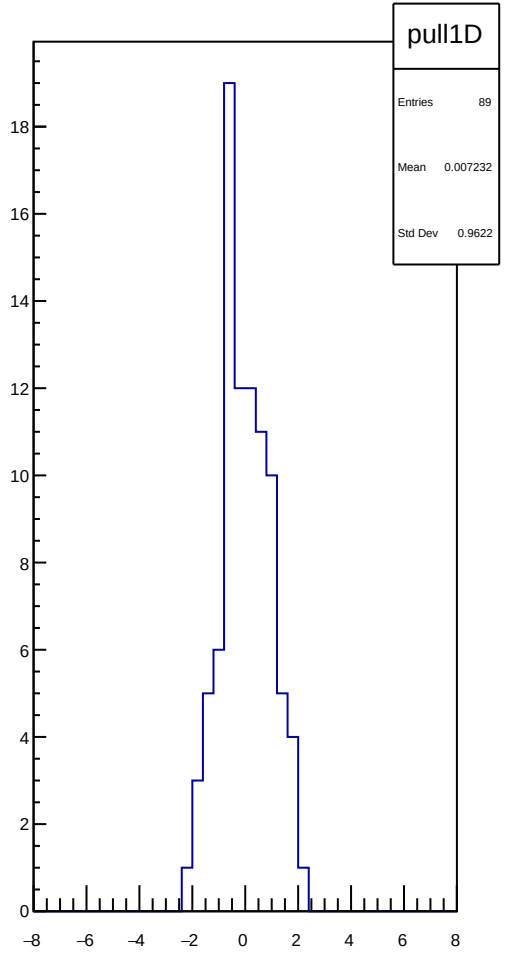

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 3156 / 88
p0 826.7 ± 0.6373
950
900
850
800
750

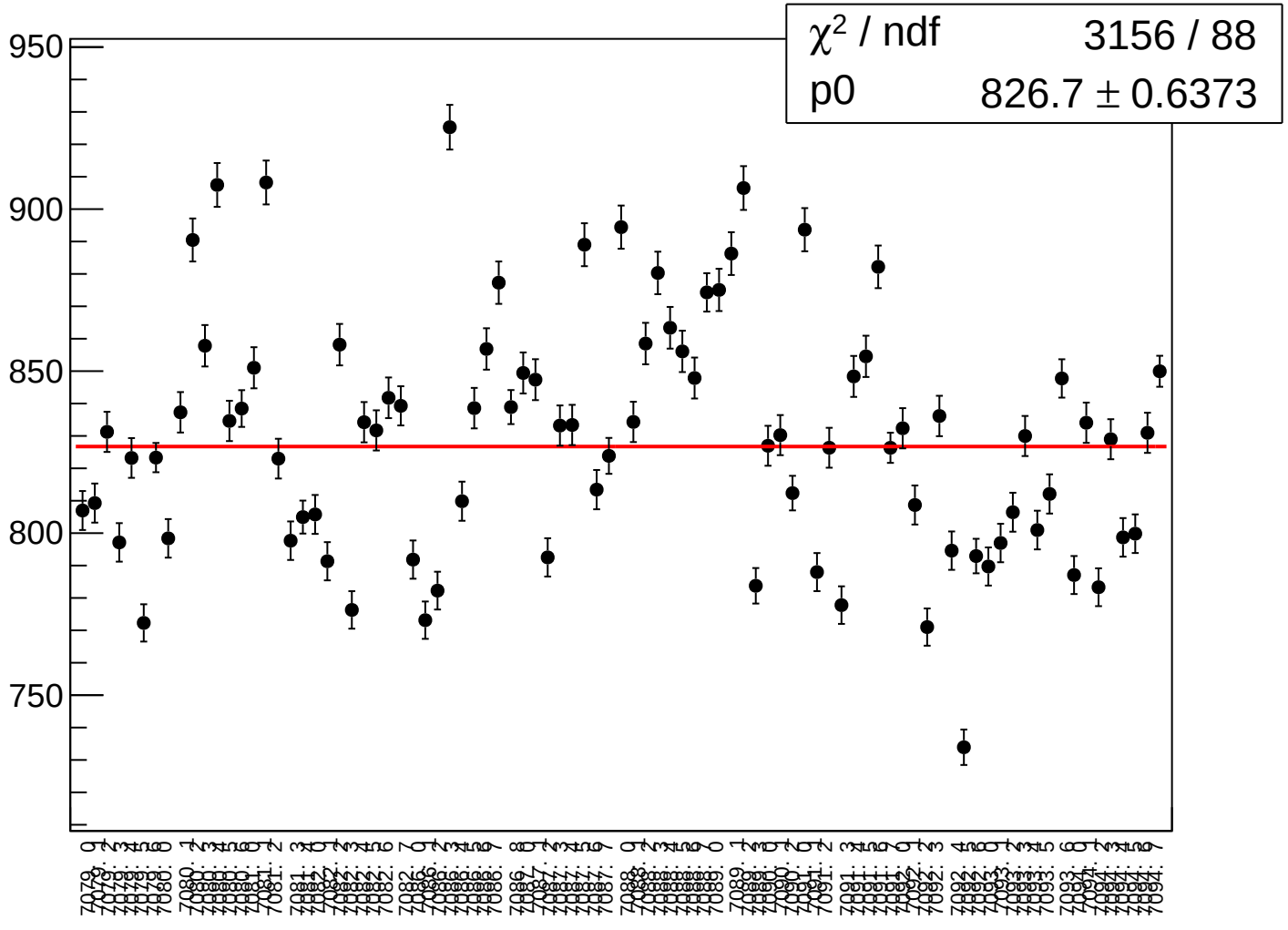

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 81.92 / 88
p0 −57.32 ± 126.8
pull
Entries 89
Mean 174
Std Dev 0

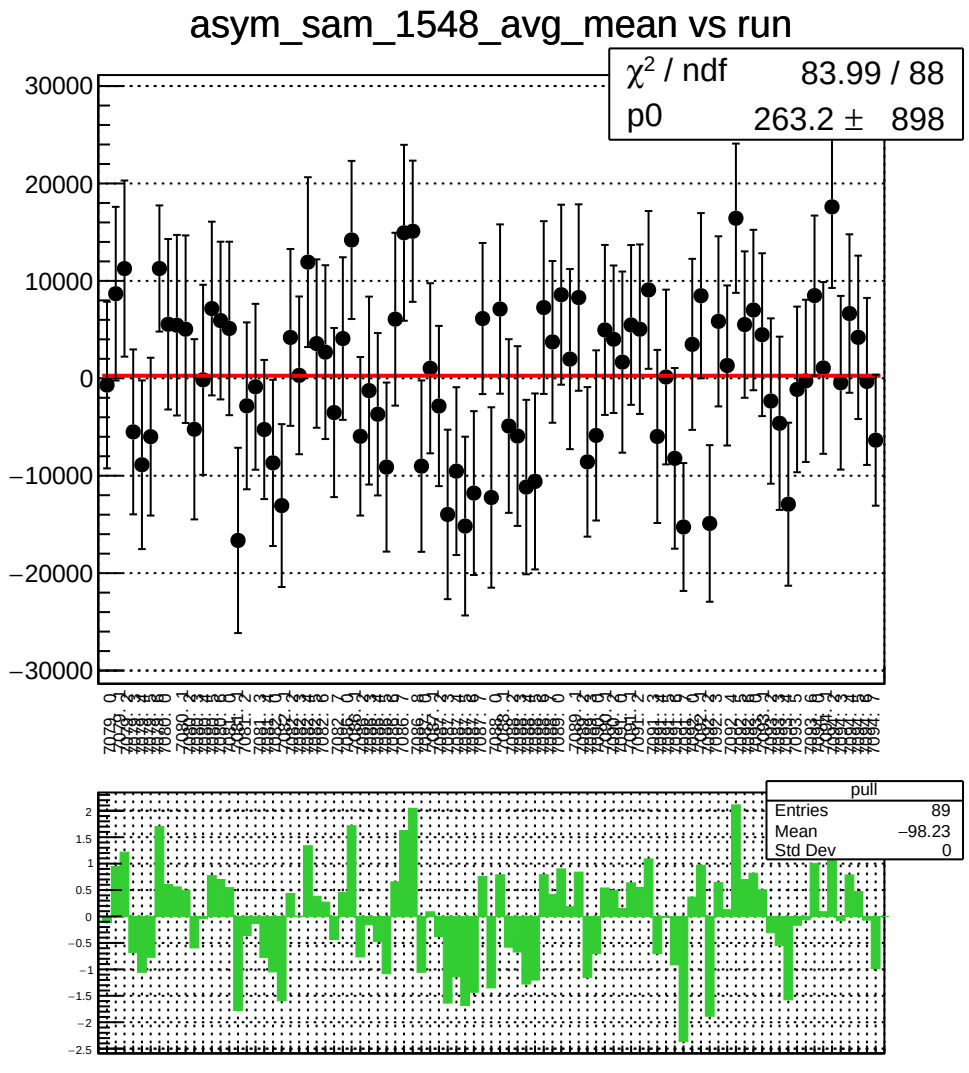

pull1D
Entries 89
Mean 0.009313
Std Dev 0.9594

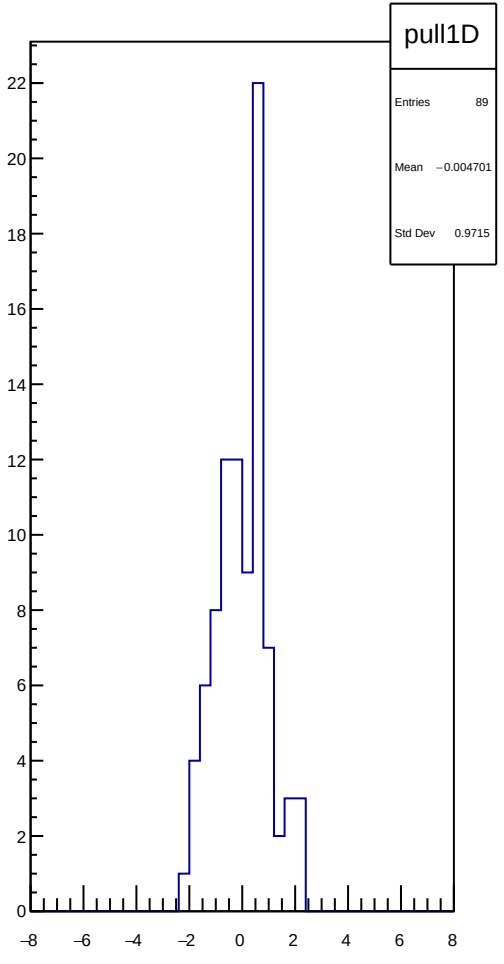

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.616e+04 / 88
p0 115.5 ± 0.08965
200
180
160
140
120
100

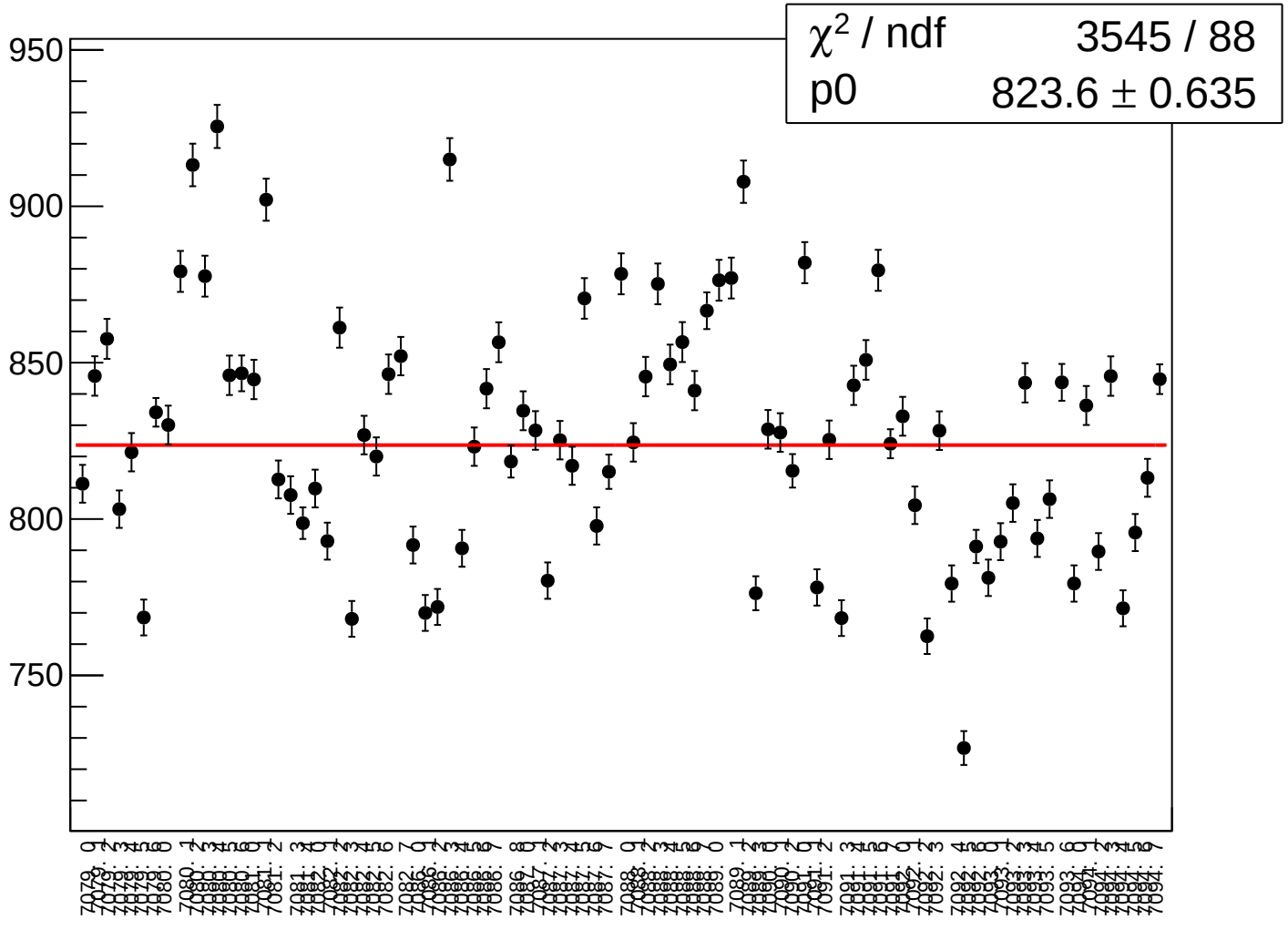

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.4 / 88
p0 −344.7 ± 901.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −13.9
Std Dev 0
2
1
0
−1
−2

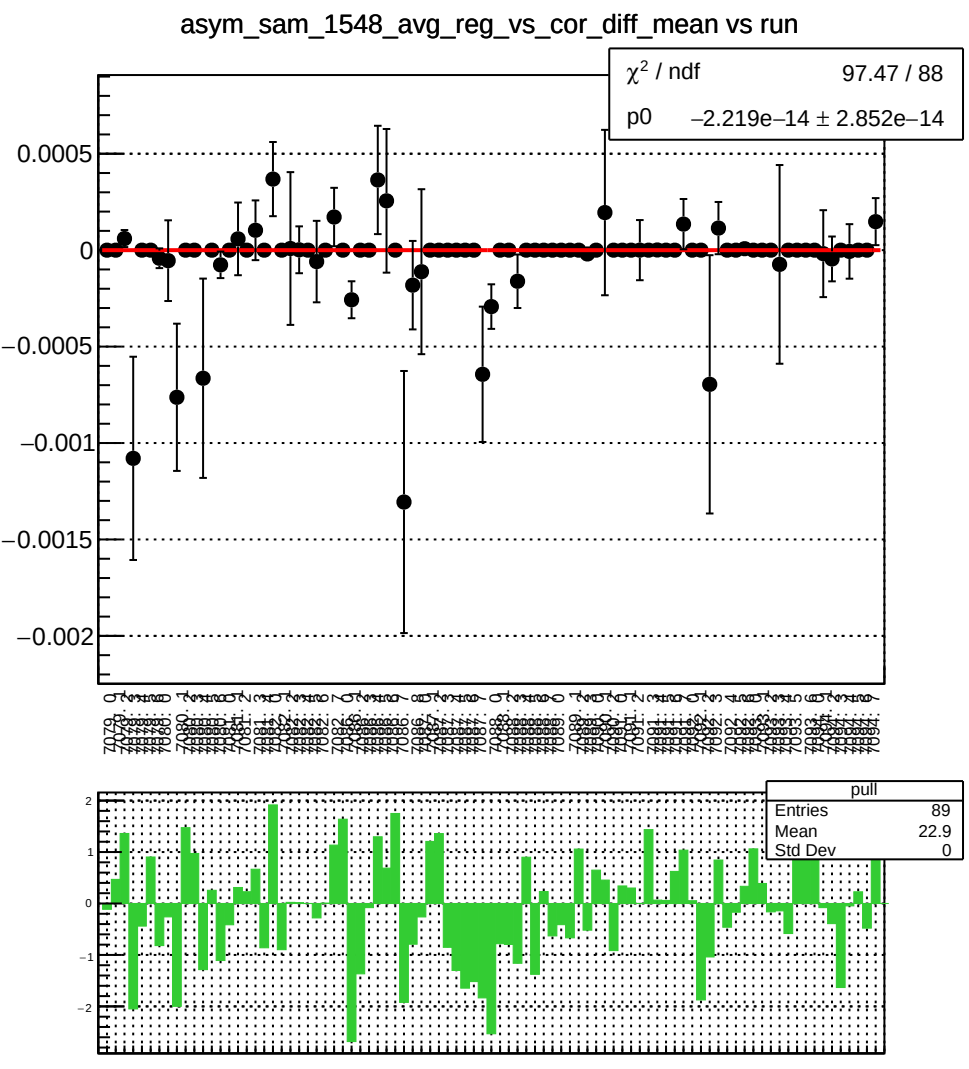

pull1D
Entries 89
Mean 0.007232
Std Dev 0.9622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

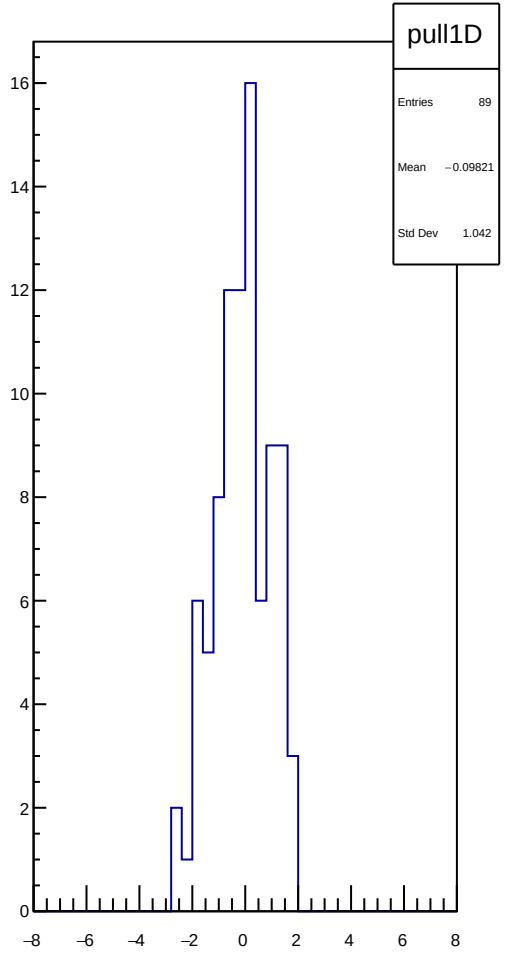

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 3156 / 88
p0 826.7 ± 0.6373
950
900
850
800
750

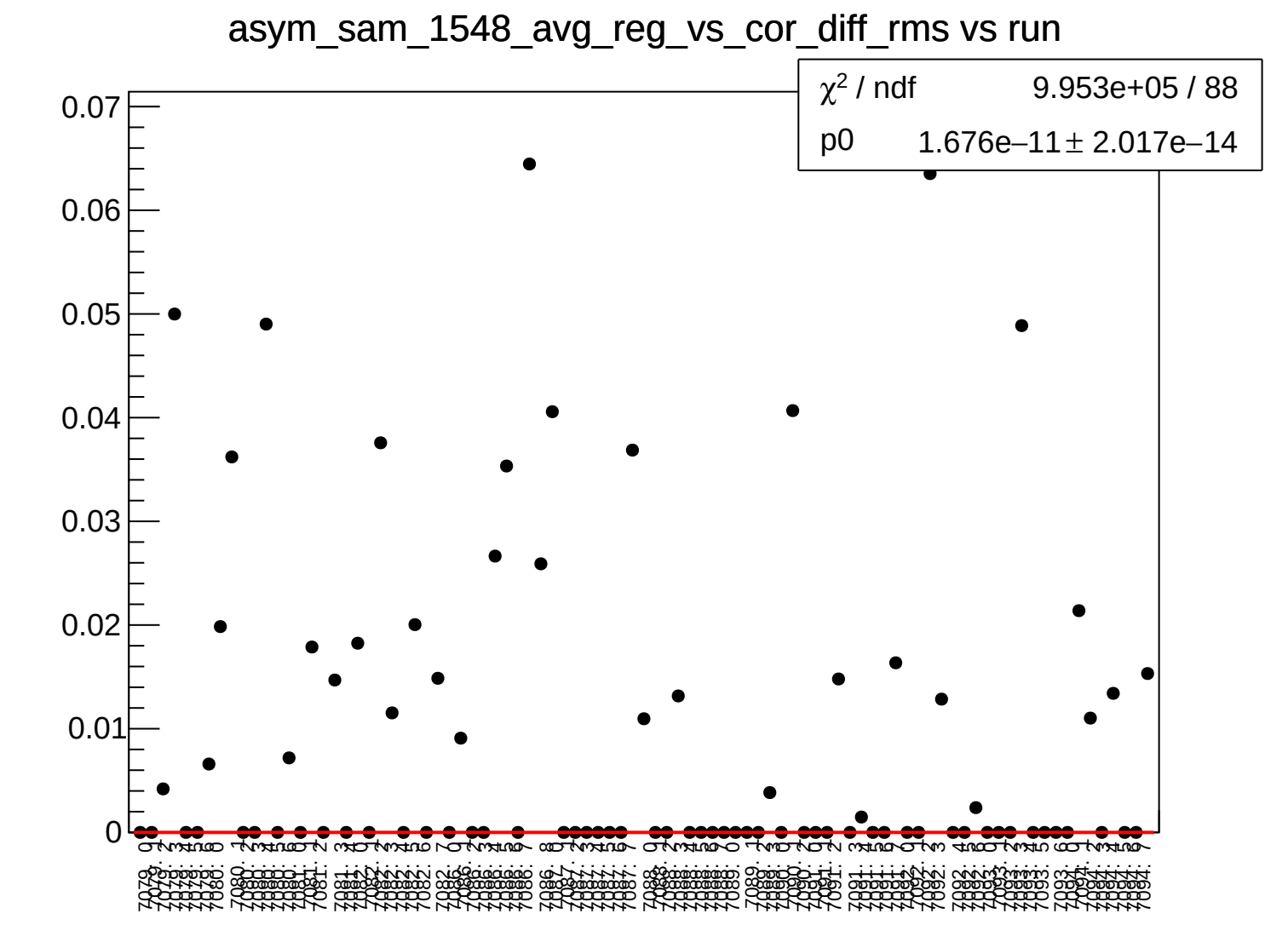

asym_sam_1548_avg_mean vs run
χ² / ndf 83.99 / 88
p0 263.2 ± 898
pull
Entries 89
Mean −98.23
Std Dev 0

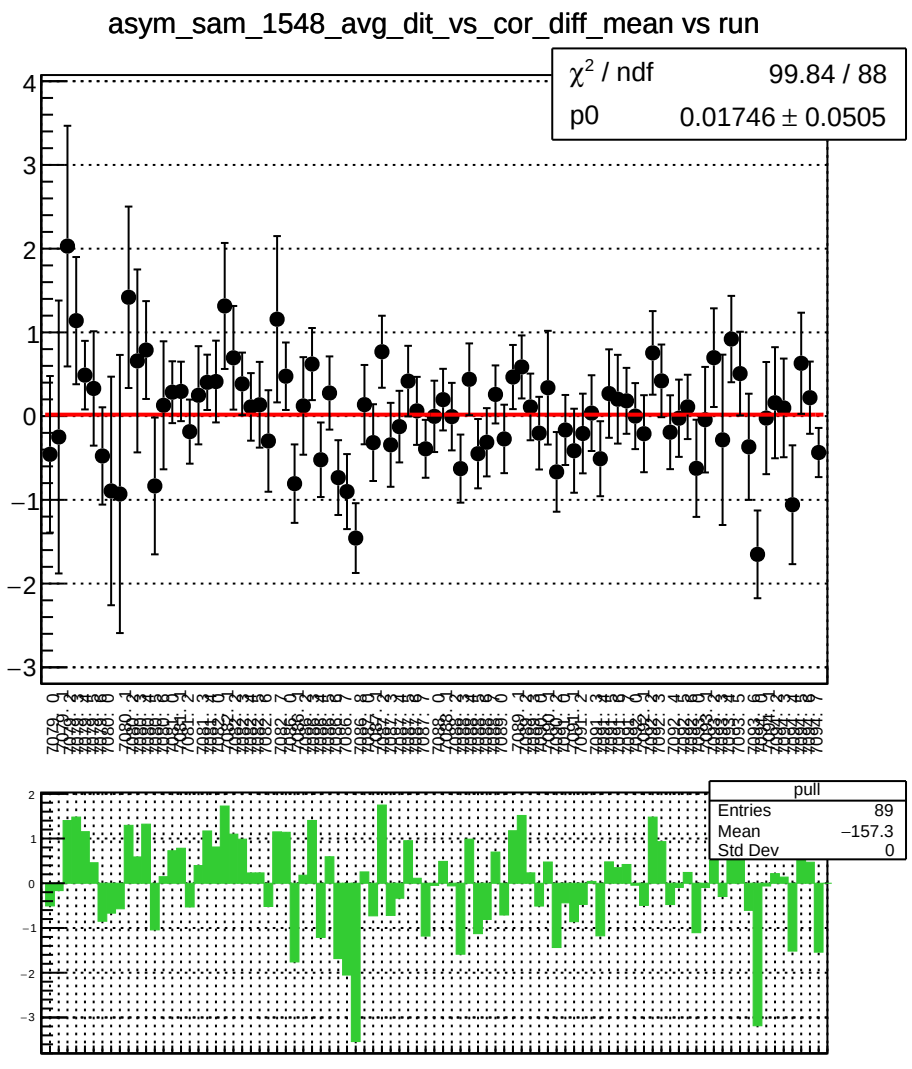

pull1D
Entries 89
Mean −0.004701
Std Dev 0.9715

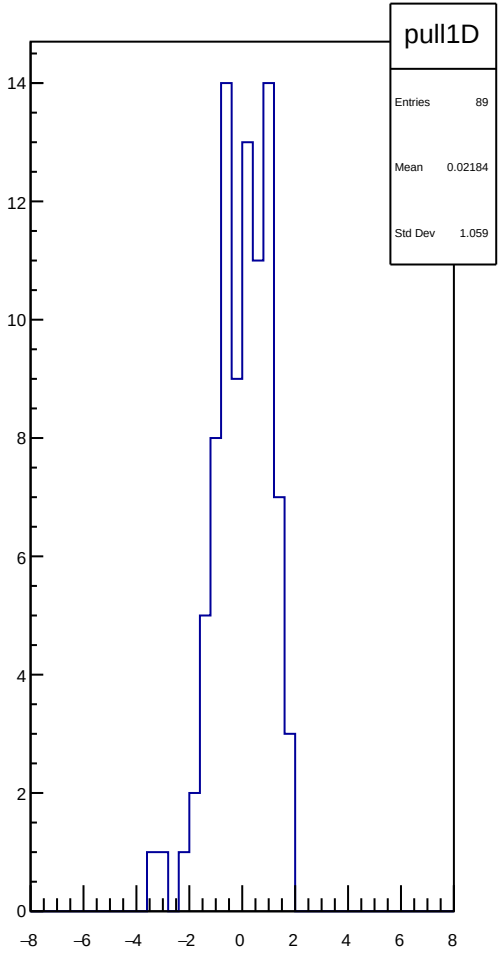

asym_sam_1548_avg_rms vs run
χ² / ndf 3545 / 88
p0 823.6 ± 0.635
950
900
850
800
750

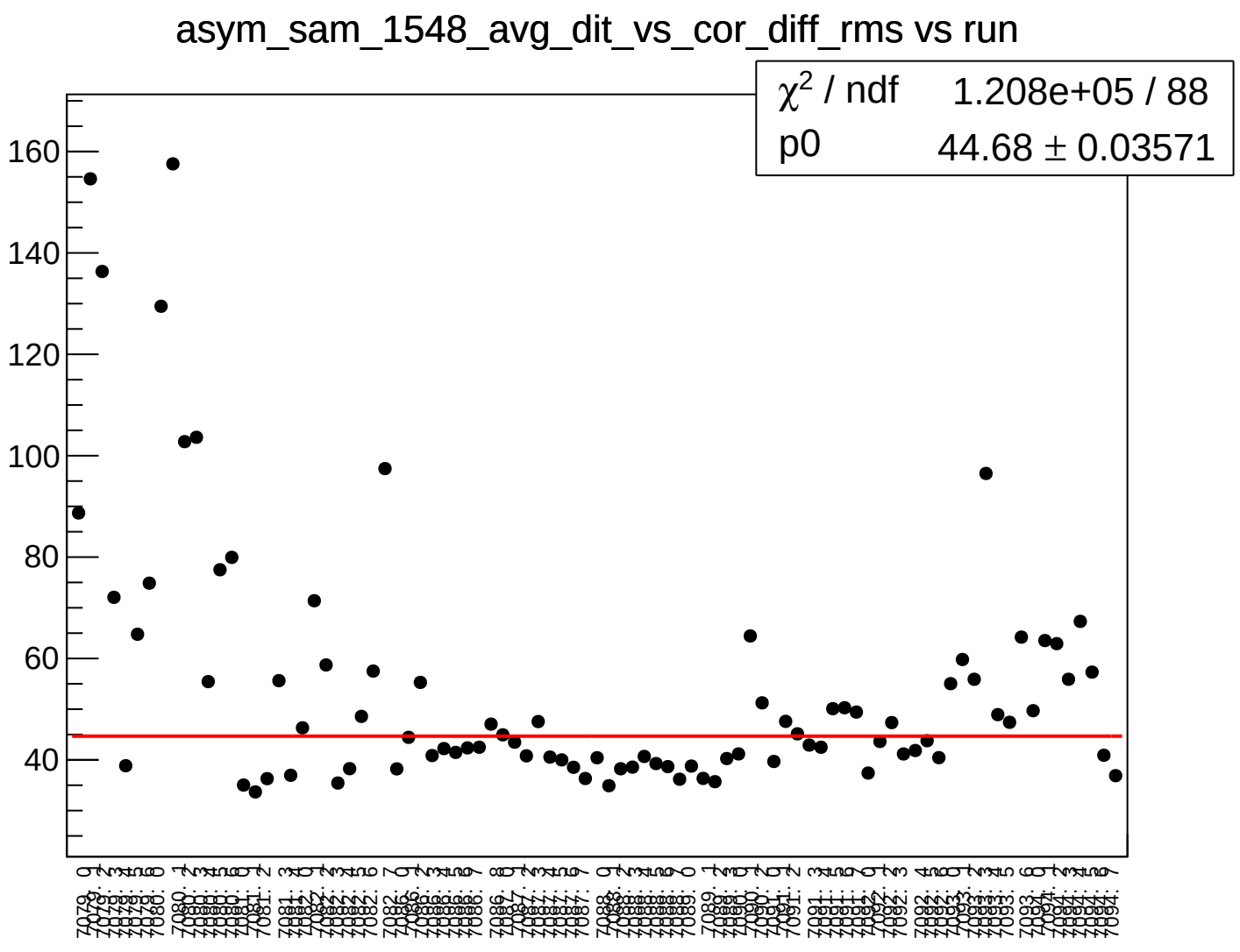

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.47 / 88
p0 −2.219e−14 ± 2.852e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 89
Mean 22.9
Std Dev 0
2
1
0
−1
−2

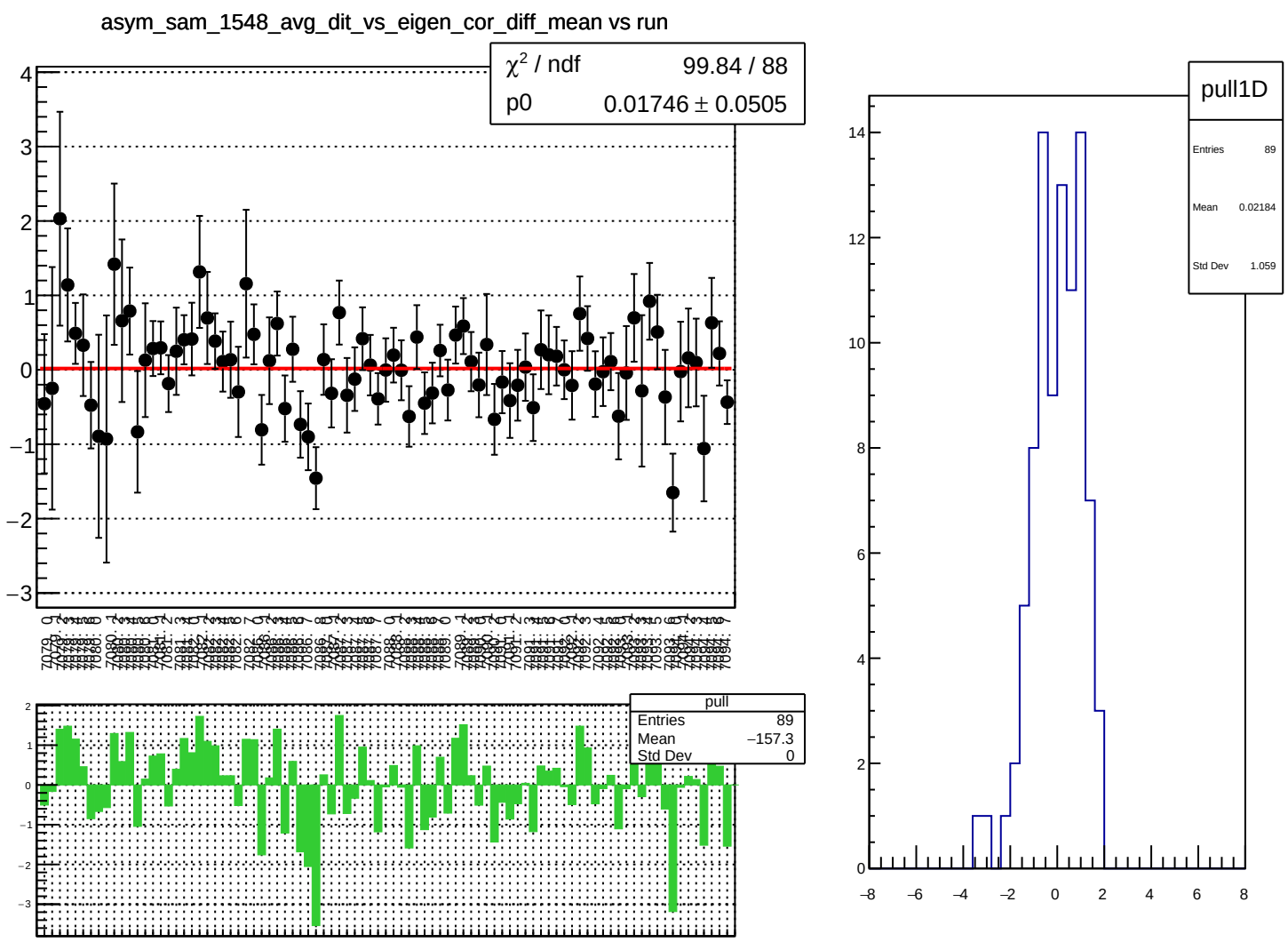

pull1D
Entries 89
Mean −0.09821
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

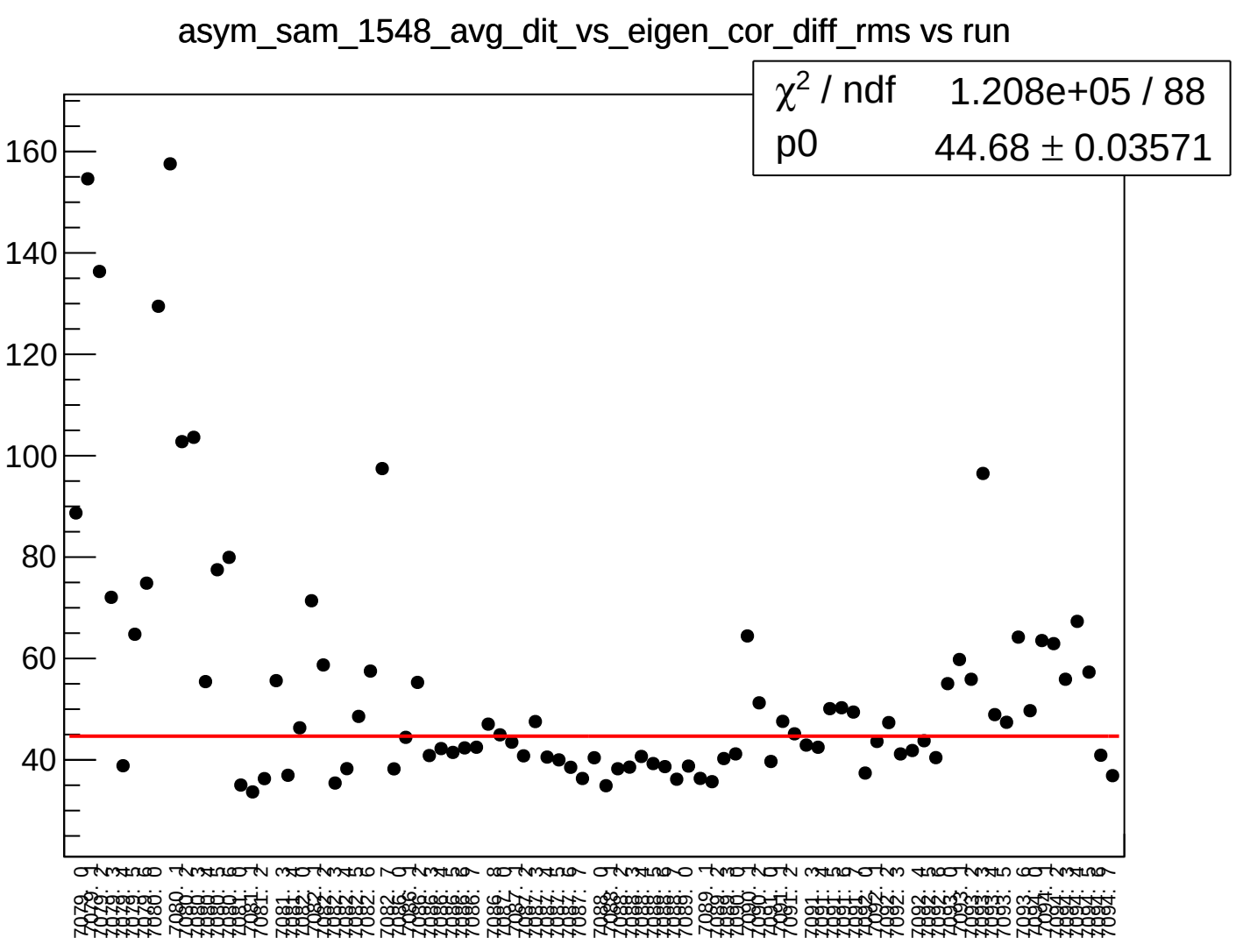

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.953e+05 / 88
p0 1.676e−11 ± 2.017e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

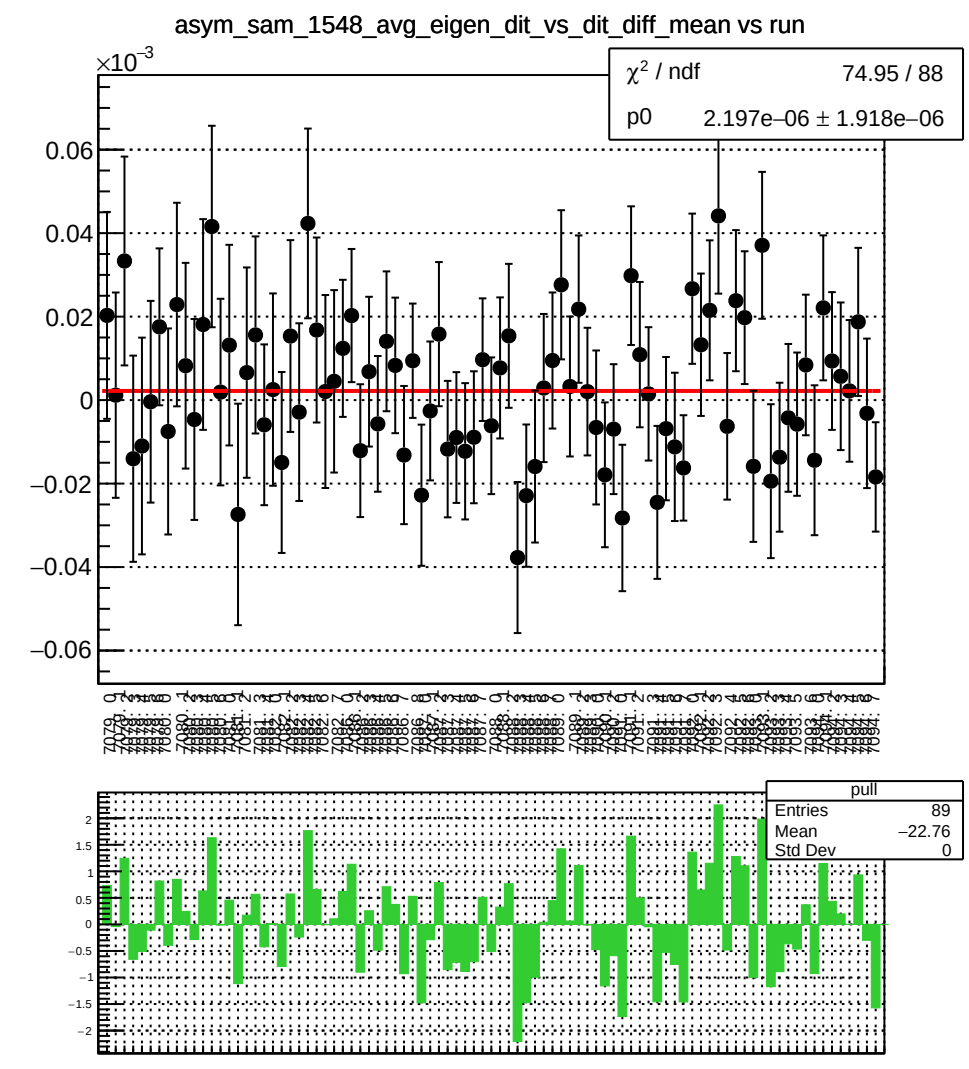

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.84 / 88
p0 0.01746 ± 0.0505
pull
Entries 89
Mean −157.3
Std Dev 0

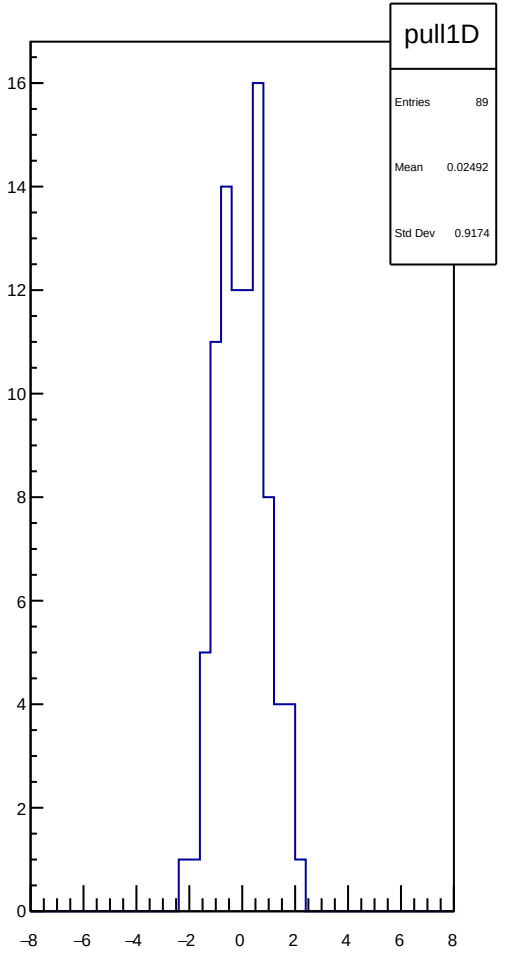

pull1D
Entries 89
Mean 0.02184
Std Dev 1.059

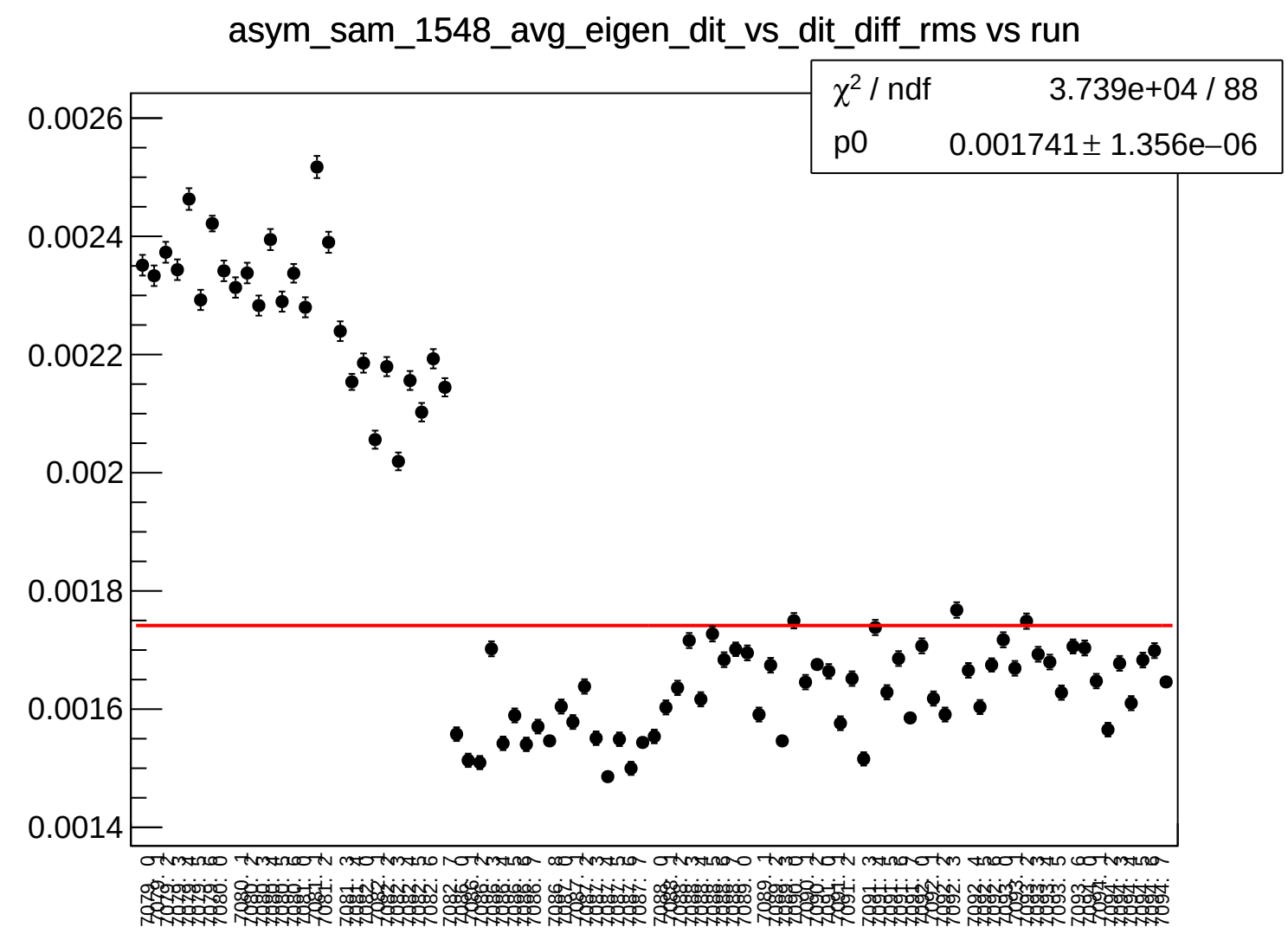

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.208e+05 / 88
p0 44.68 ± 0.03571
160
140
120
100
80
60
40

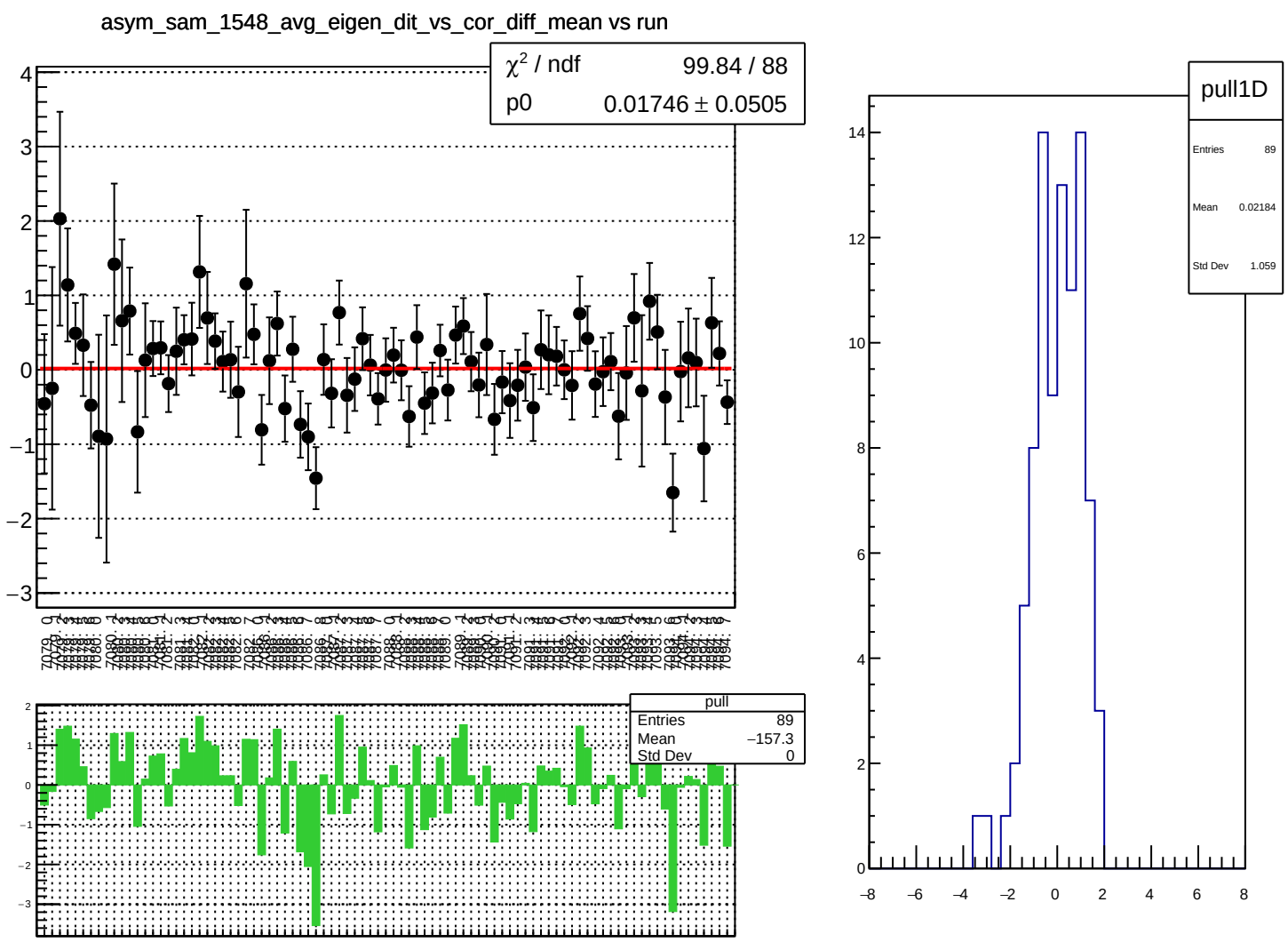

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.84 / 88
p0 0.01746 ± 0.0505
pull
Entries 89
Mean −157.3
Std Dev 0
pull1D
Entries 89
Mean 0.02184
Std Dev 1.059

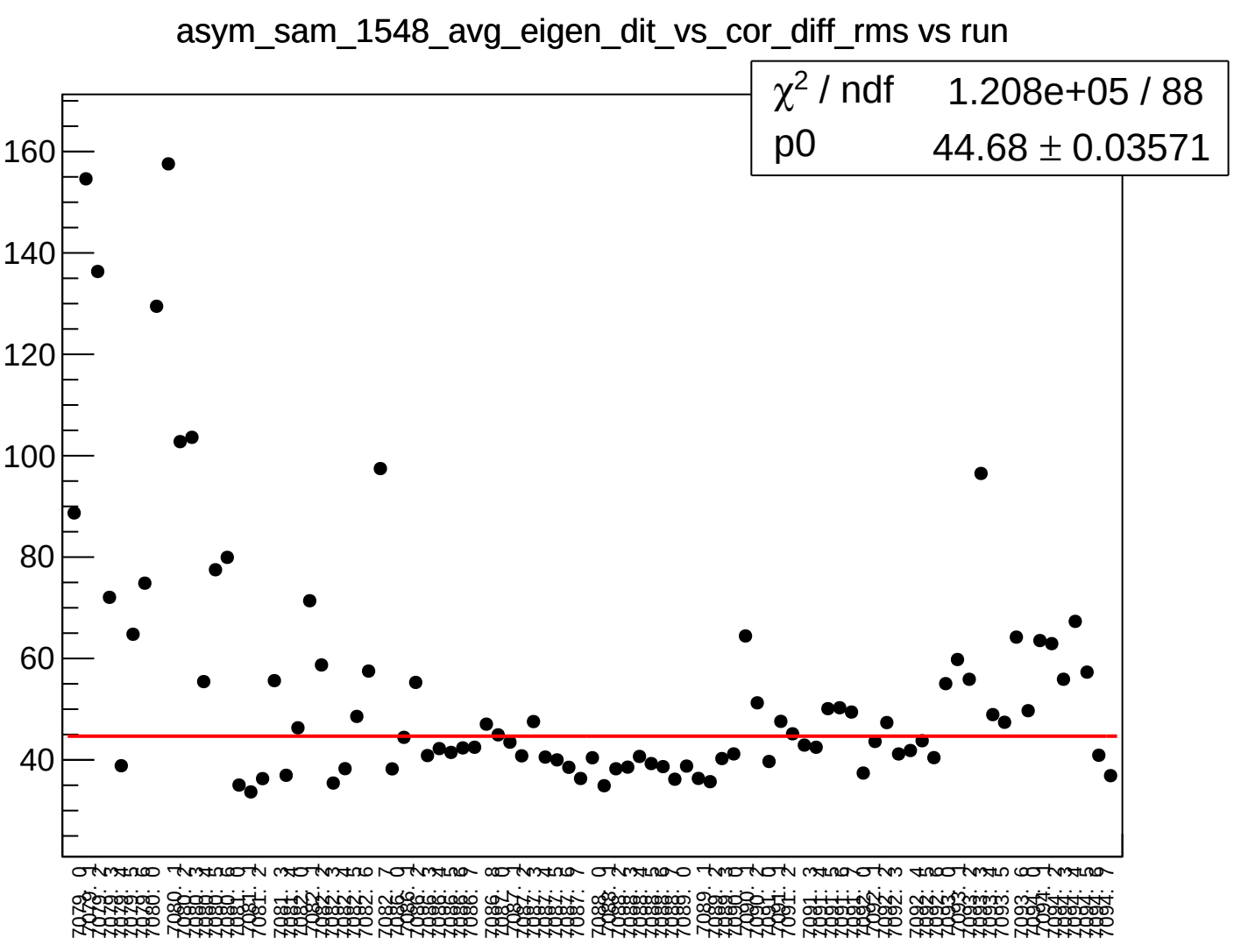

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.208e+05 / 88
p0 44.68 ± 0.03571
160
140
120
100
80
60
40

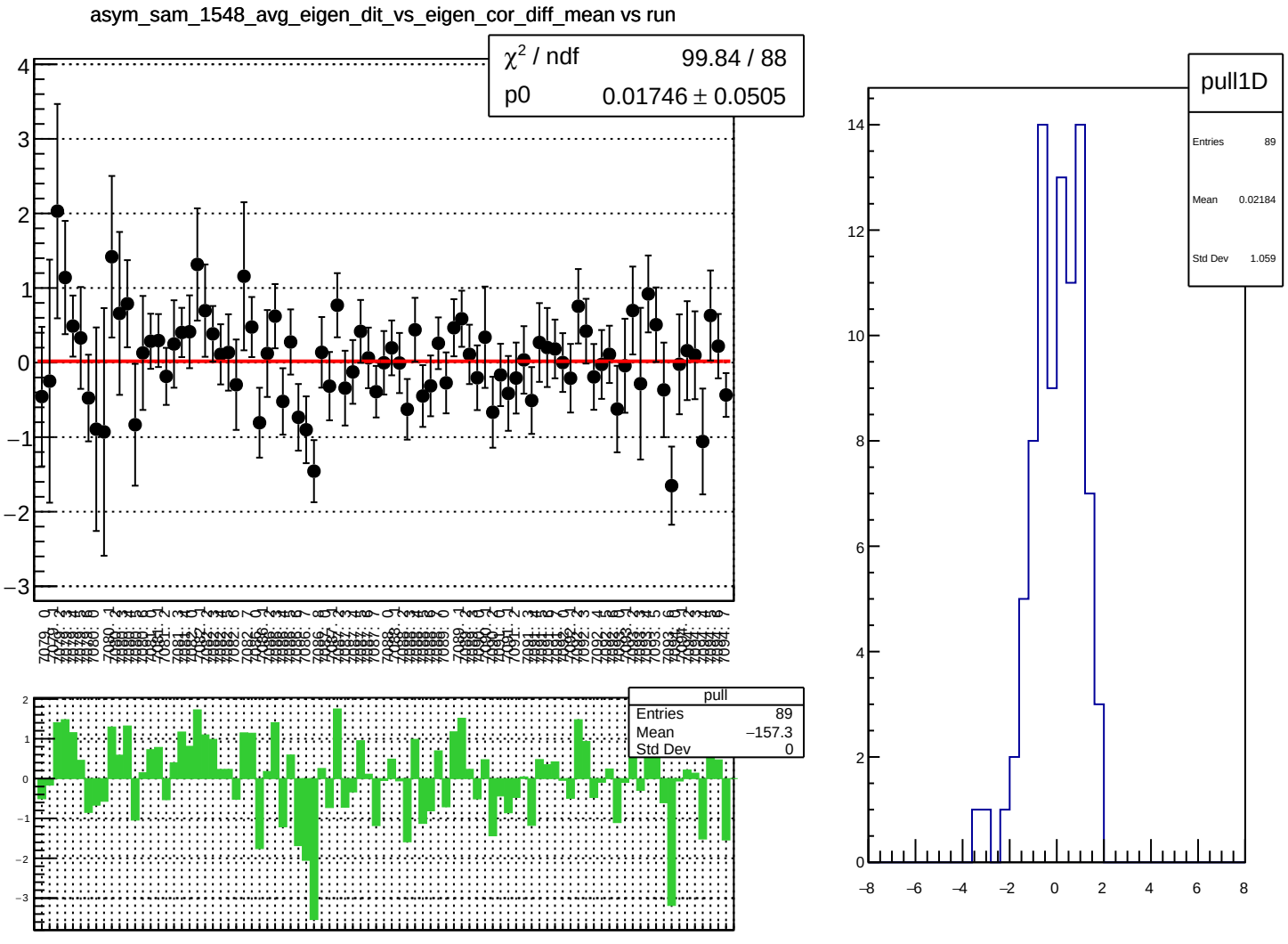

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.95 / 88
p0 2.197e−06 ± 1.918e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −22.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

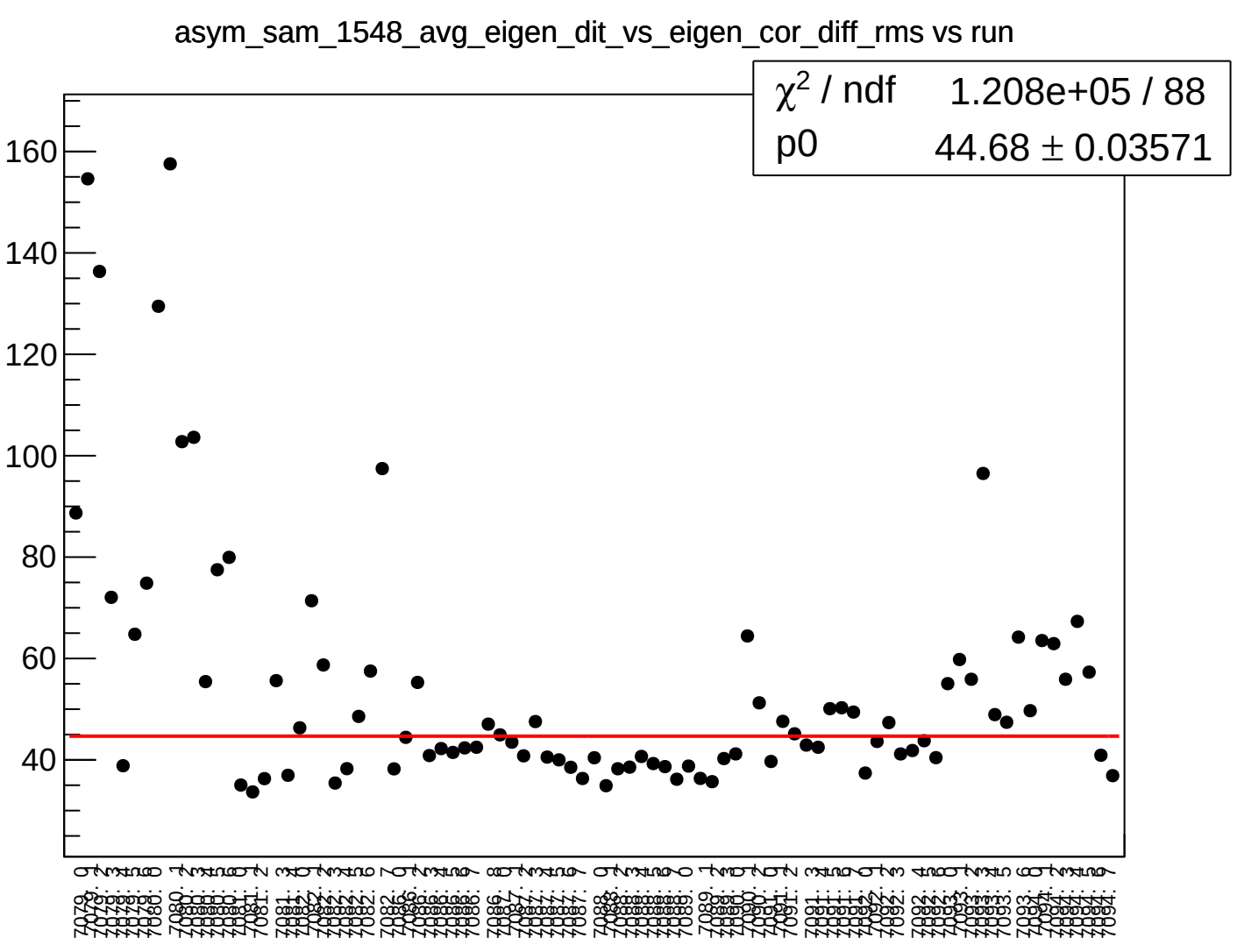

pull1D
Entries 89
Mean 0.02492
Std Dev 0.9174
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

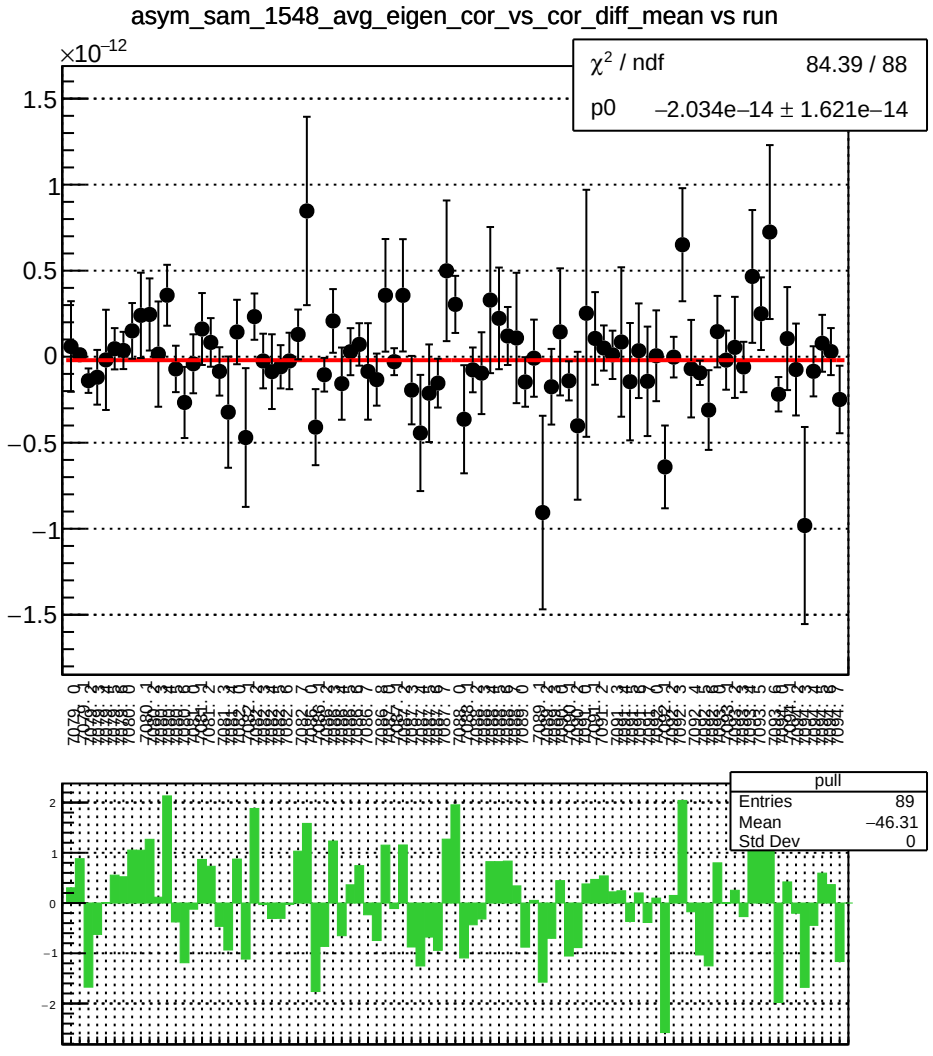

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.739e+04 / 88
p0 0.001741 ± 1.356e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

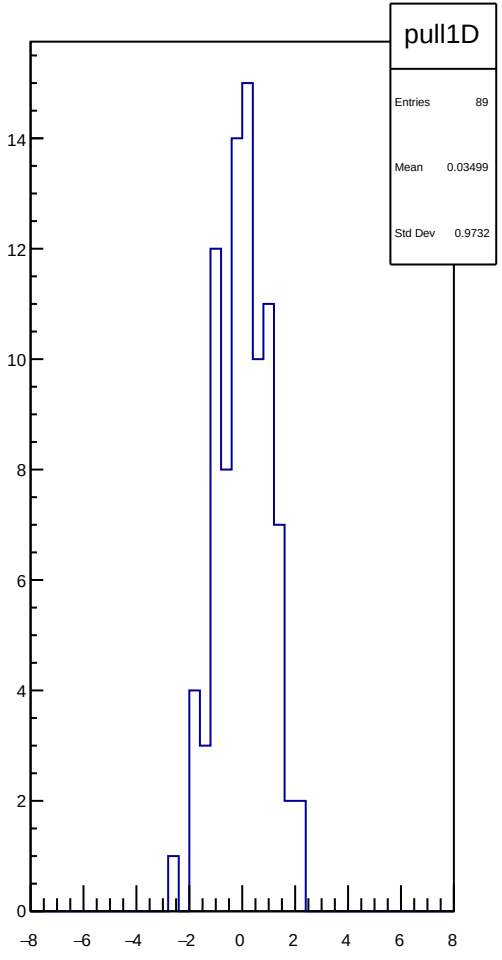

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.84 / 88
p0 0.01746 ± 0.0505
pull
Entries 89
Mean −157.3
Std Dev 0
pull1D
Entries 89
Mean 0.02184
Std Dev 1.059

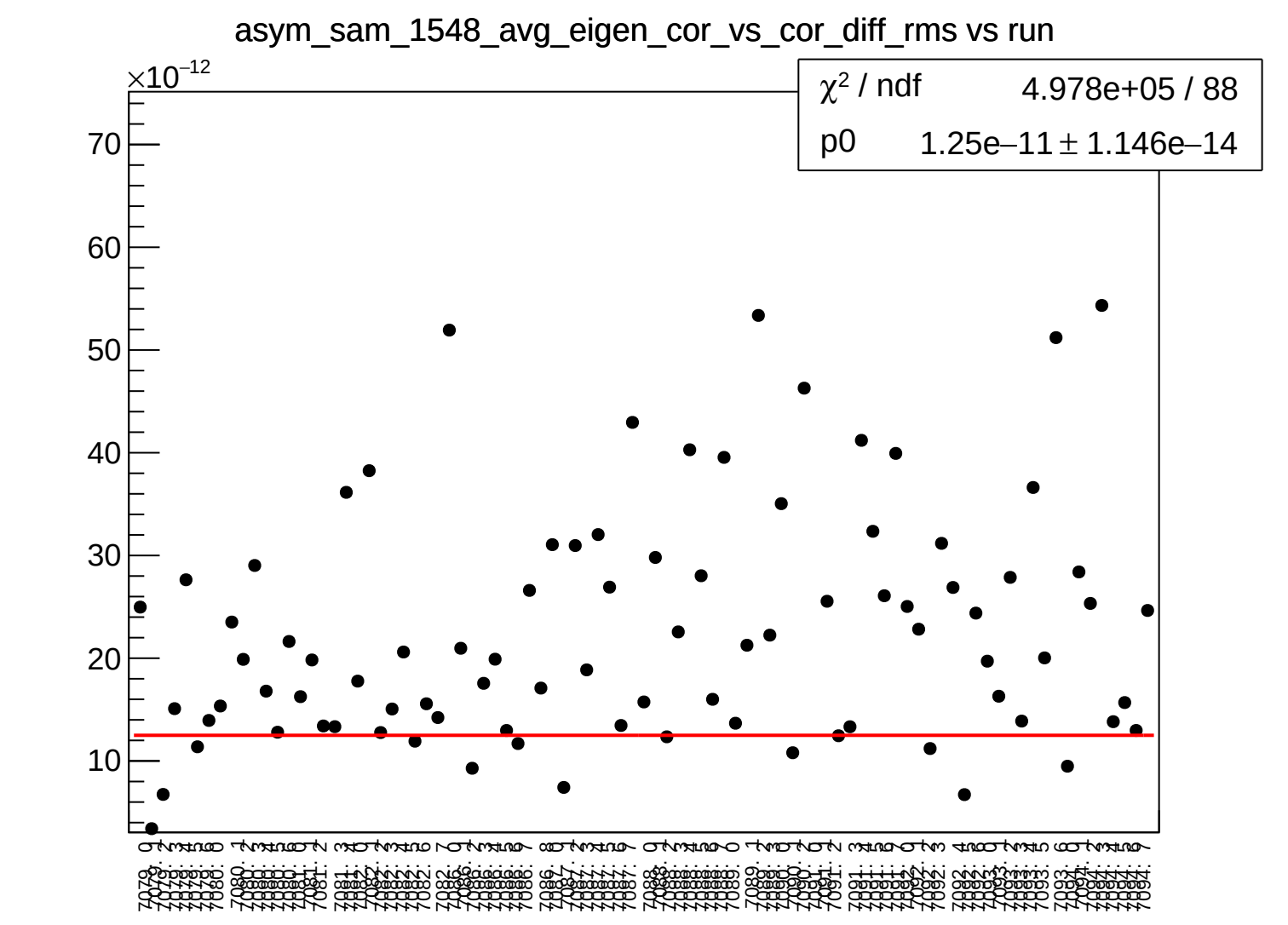

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.208e+05 / 88
p0 44.68 ± 0.03571
160
140
120
100
80
60
40

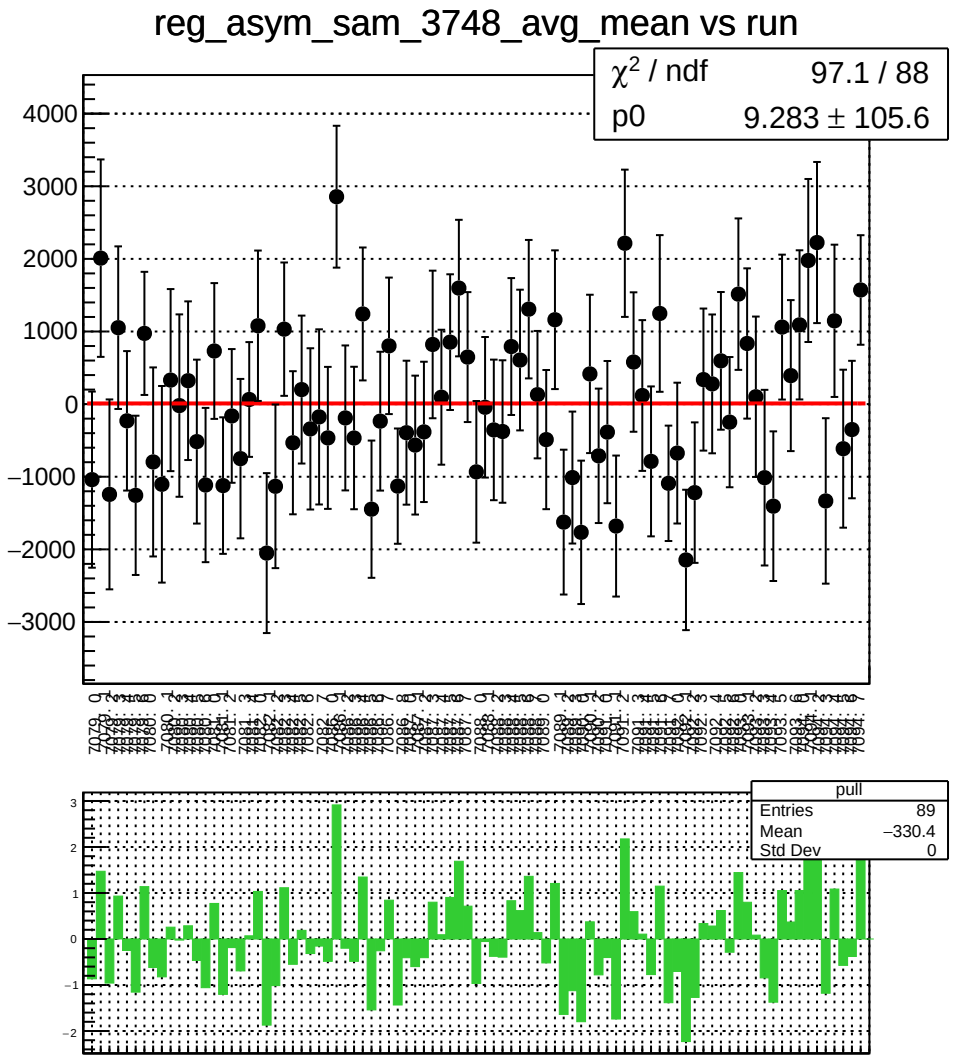

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.84 / 88
p0 0.01746 ± 0.0505
pull
Entries 89
Mean −157.3
Std Dev 0
pull1D
Entries 89
Mean 0.02184
Std Dev 1.059

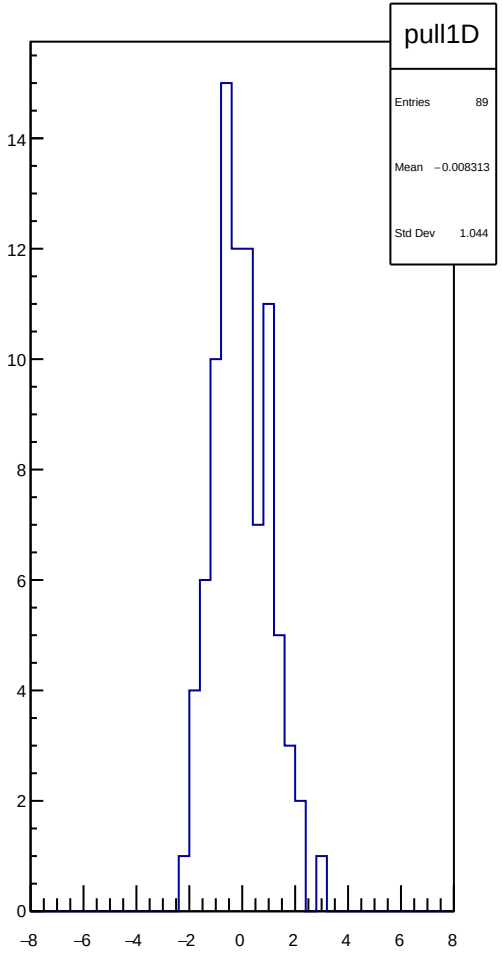

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.208e+05 / 88
p0 44.68 ± 0.03571
160
140
120
100
80
60
40

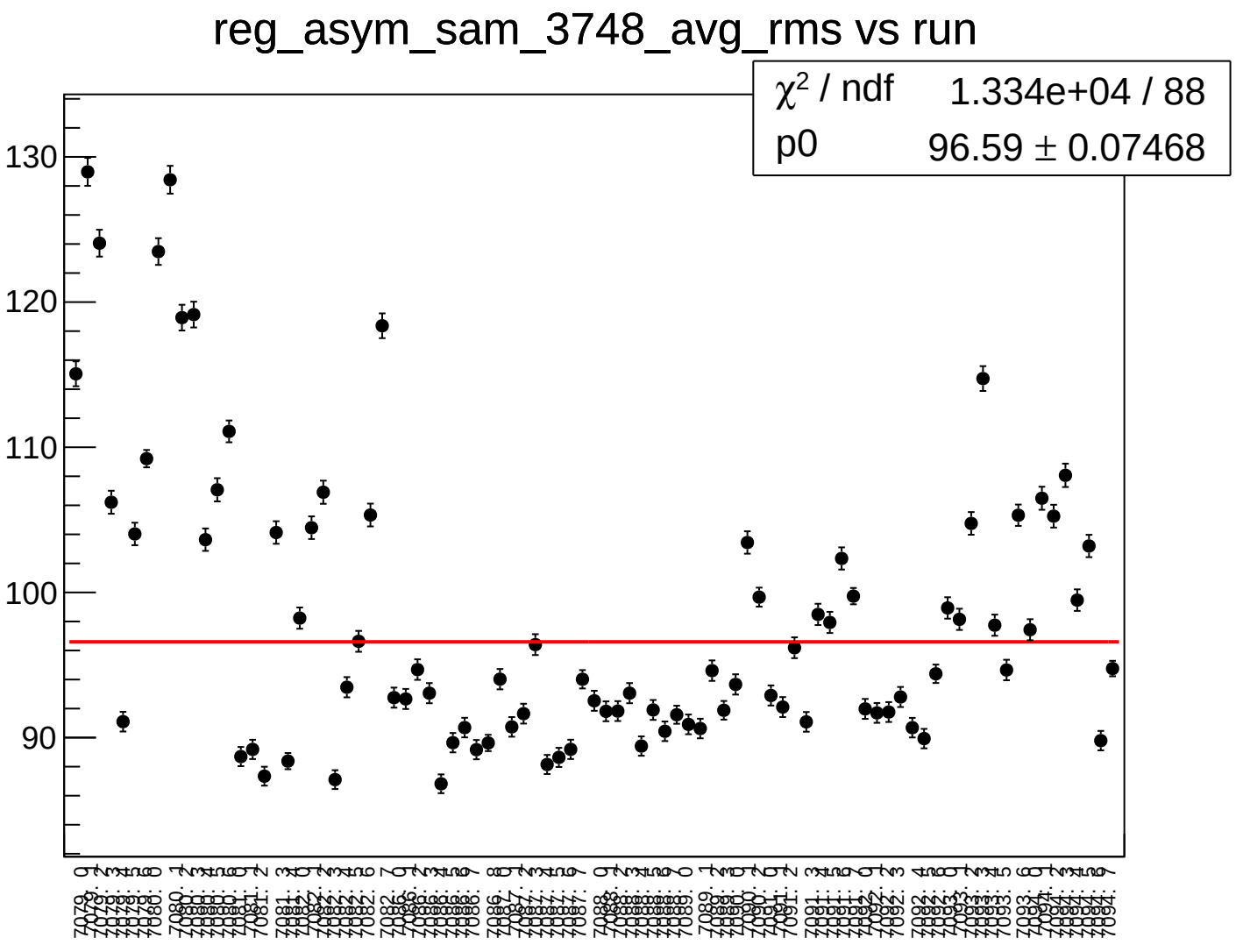

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 84.39 / 88
p0 −2.034e−14 ± 1.621e−14
pull
Entries 89
Mean −46.31
Std Dev 0

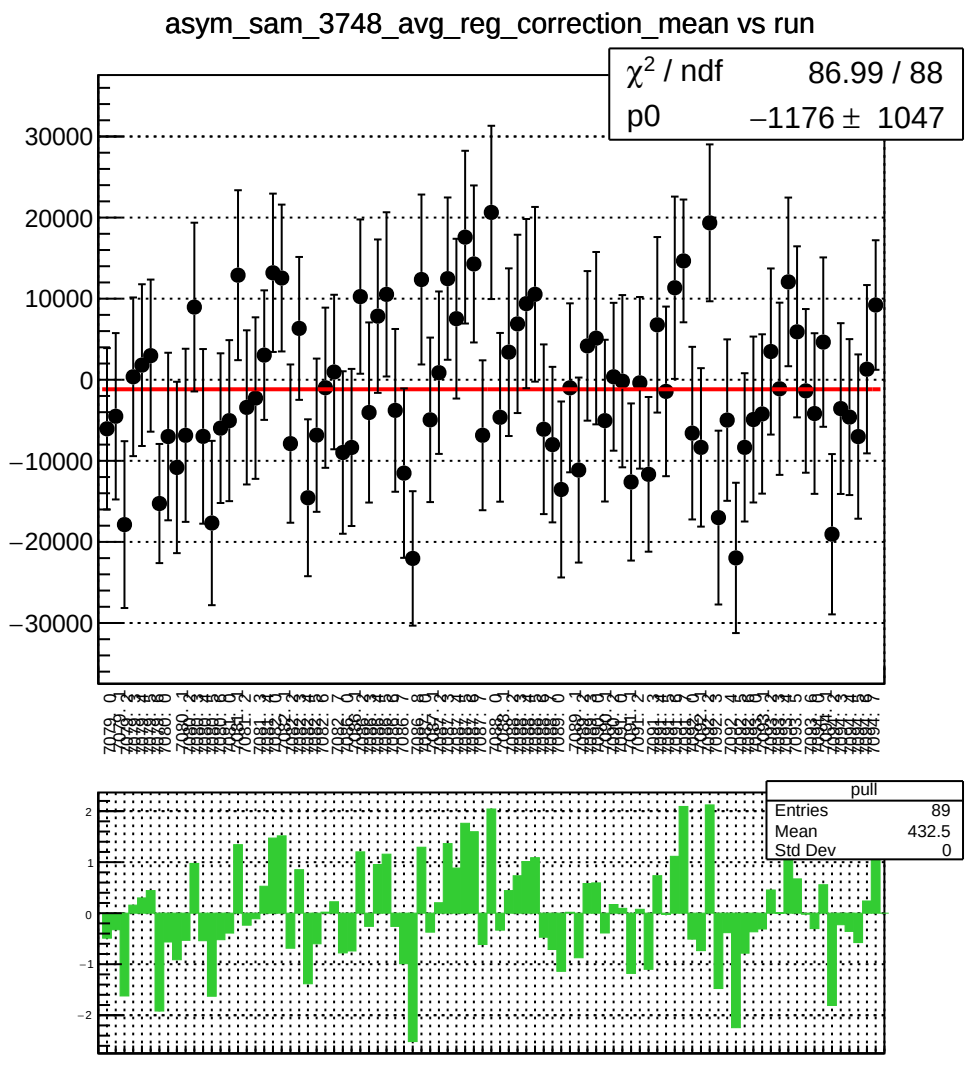

pull1D
Entries 89
Mean 0.03499
Std Dev 0.9732

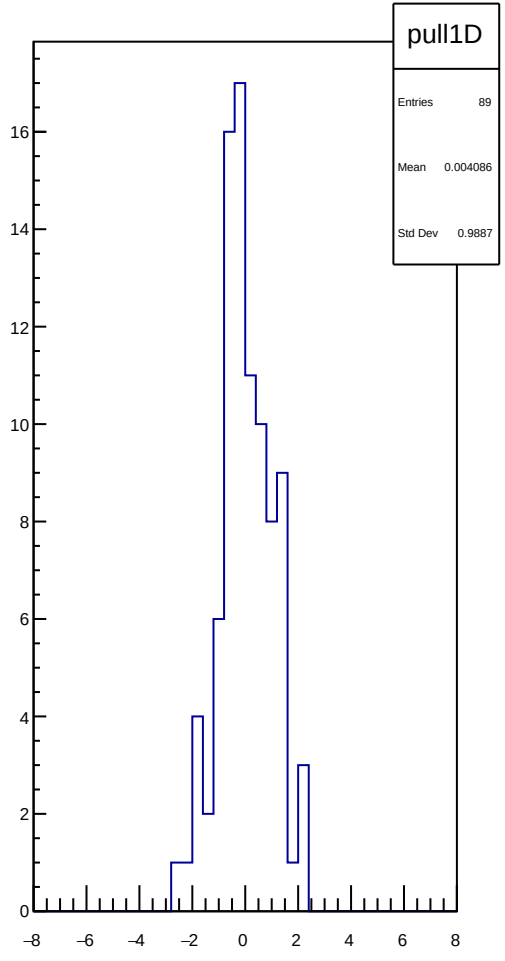

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.978e+05 / 88
p0 1.25e−11 ± 1.146e−14
70
60
50
40
30
20
10

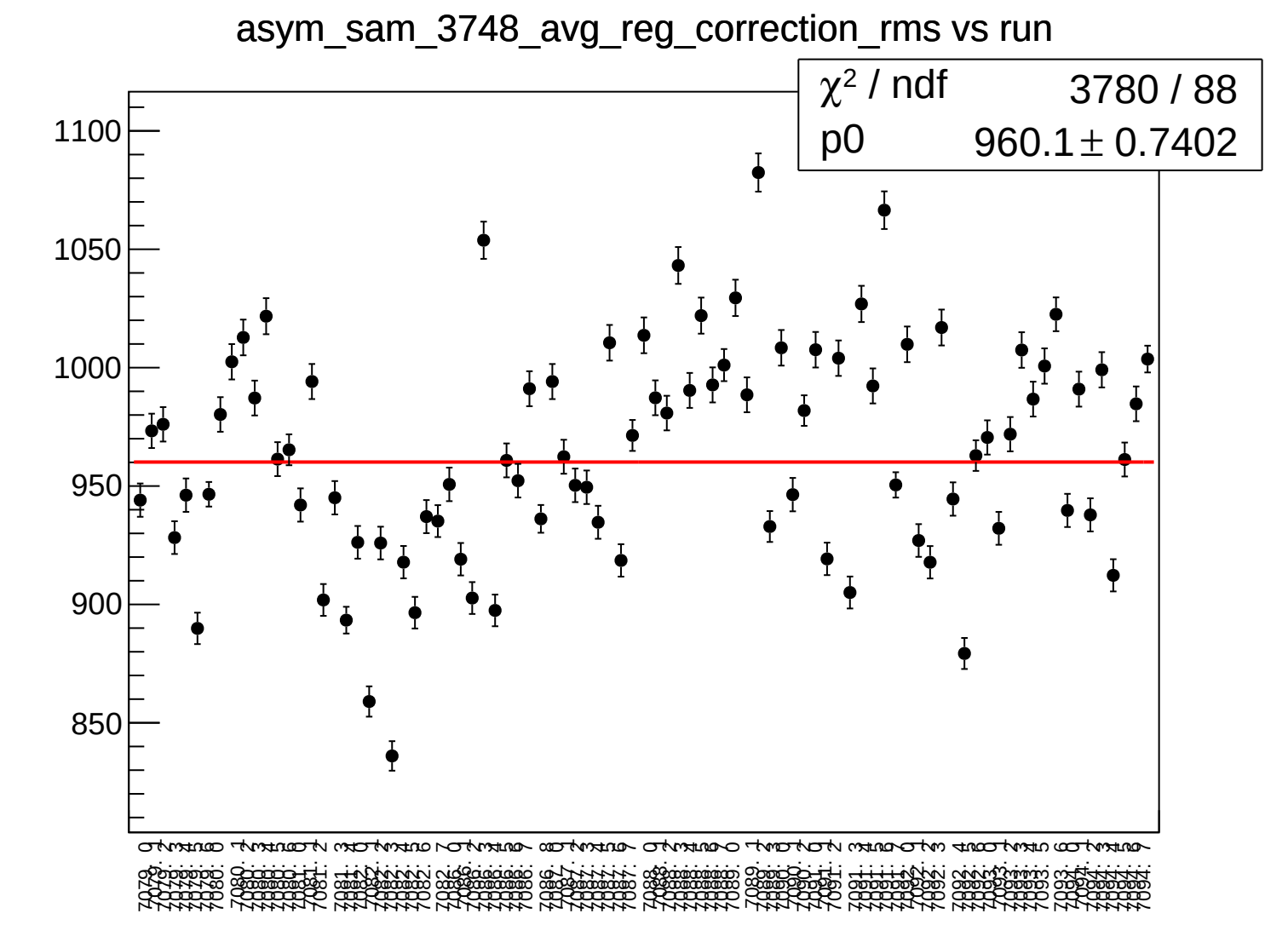

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 97.1 / 88
p0 9.283 ± 105.6
pull
Entries 89
Mean −330.4
Std Dev 0

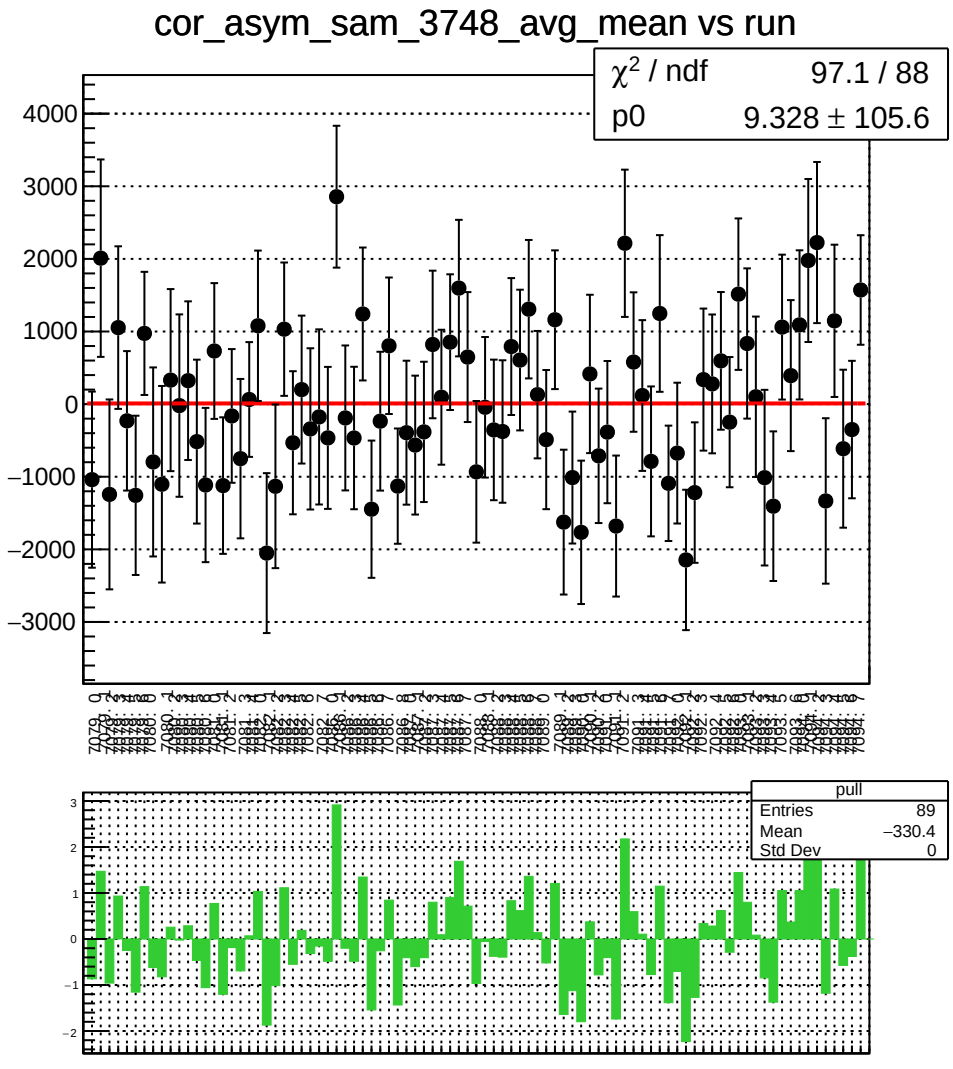

pull1D
Entries 89
Mean −0.008313
Std Dev 1.044

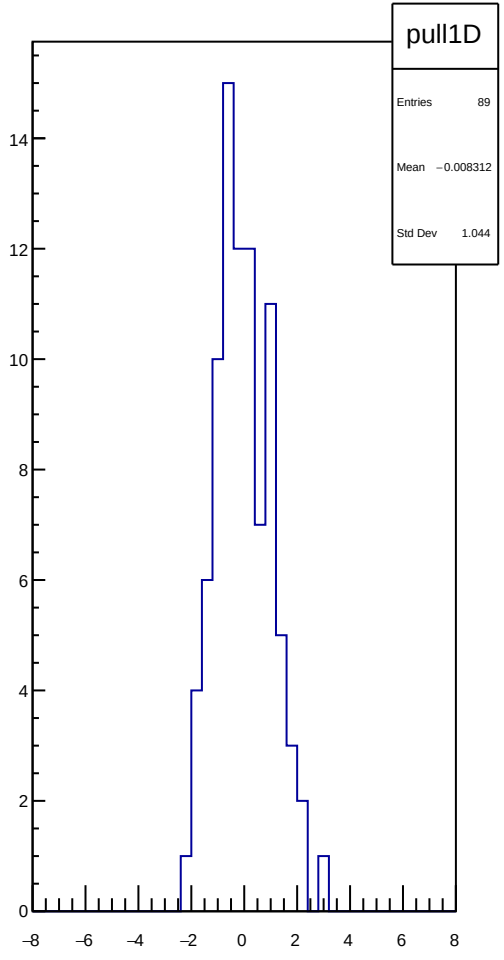

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.334e+04 / 88
p0 96.59 ± 0.07468
130
120
110
100
90

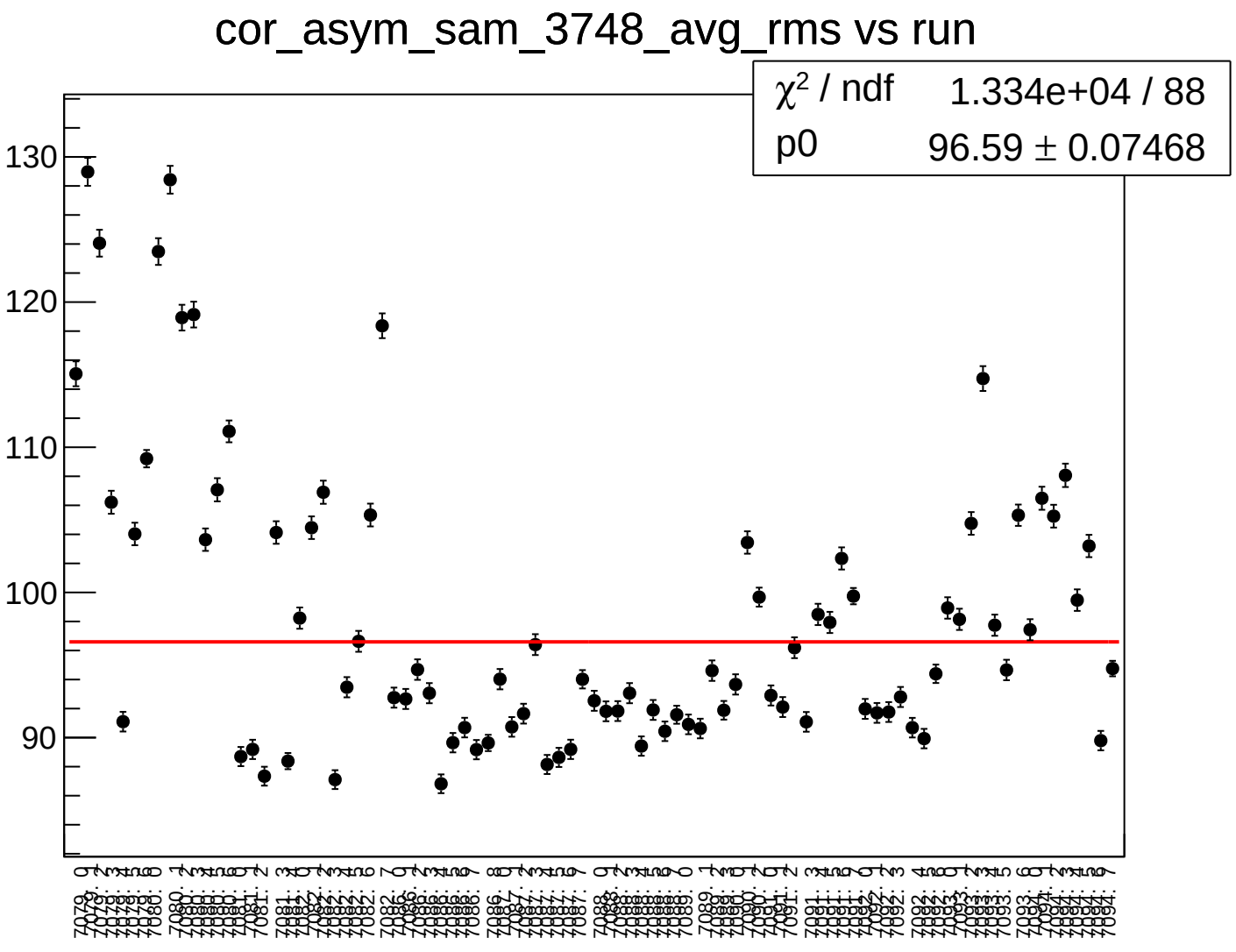

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 86.99 / 88
p0 −1176 ± 1047
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 432.5
Std Dev 0
2
1
0
−1
−2

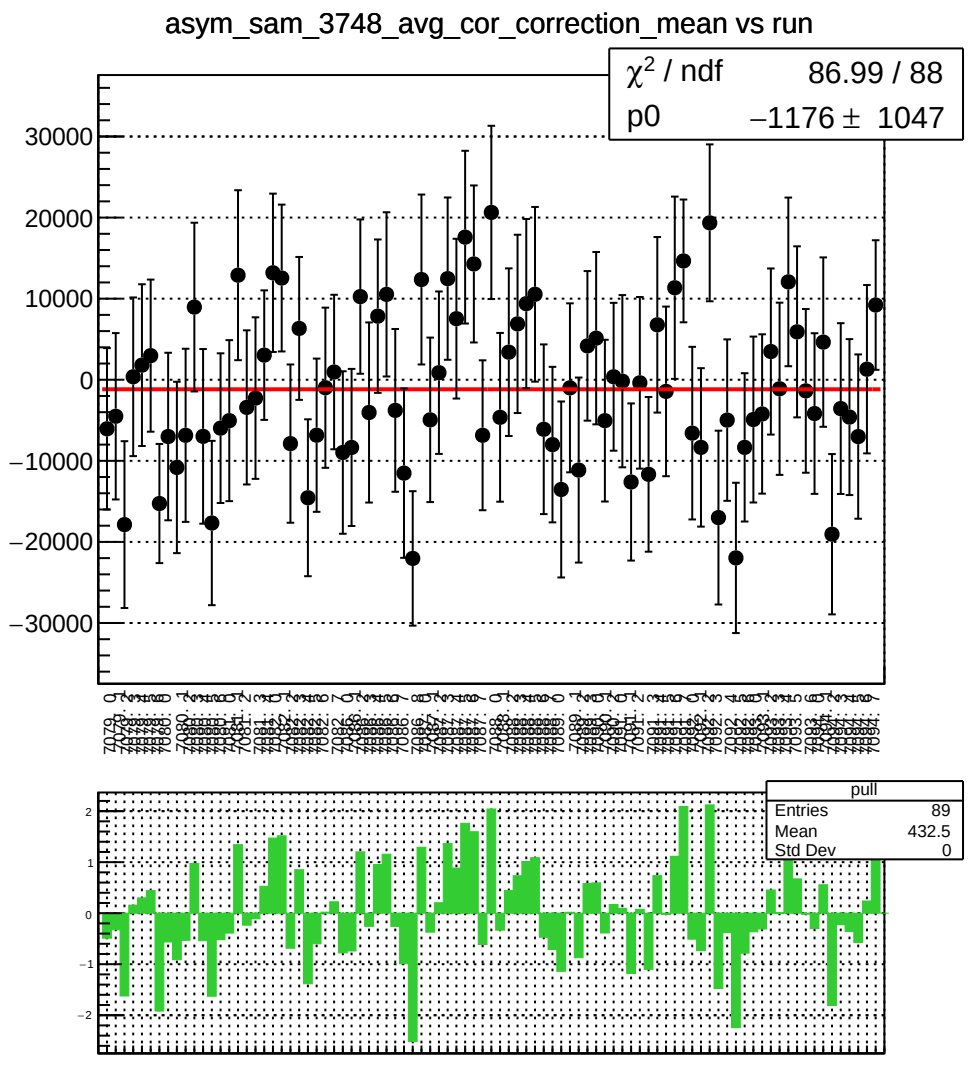

pull1D
Entries 89
Mean 0.004086
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

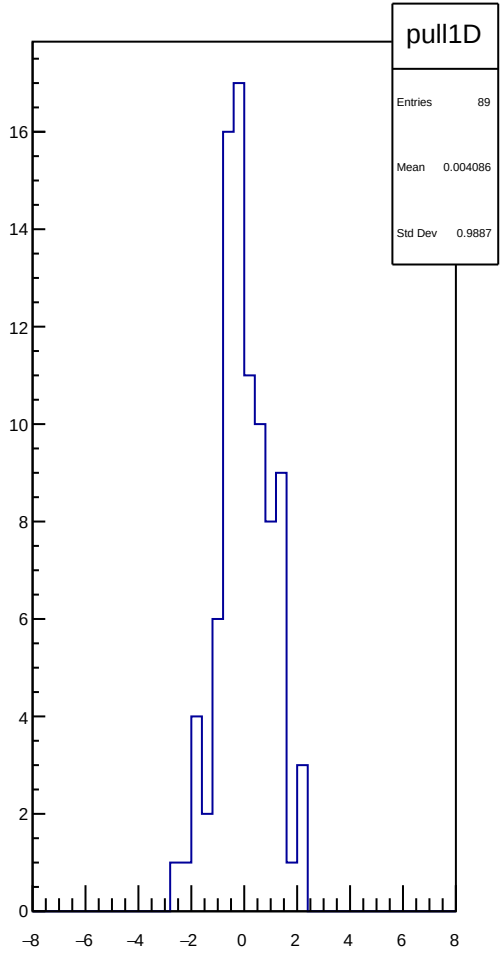

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 3780 / 88
p0 960.1 ± 0.7402
1100
1050
1000
950
900
850

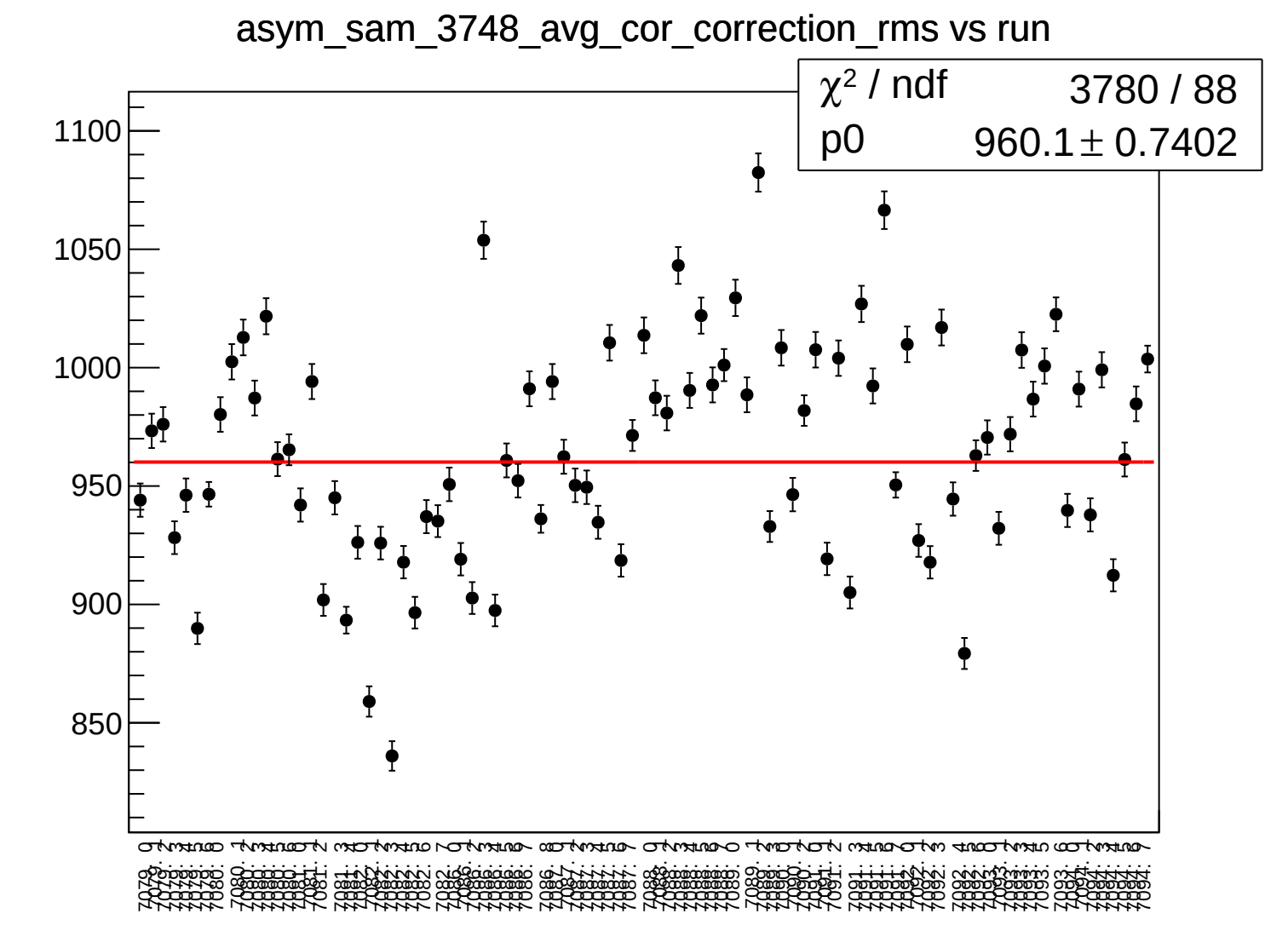

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 97.1 / 88
p0 9.328 ± 105.6
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −330.4
Std Dev 0
3
2
1
0
−1
−2

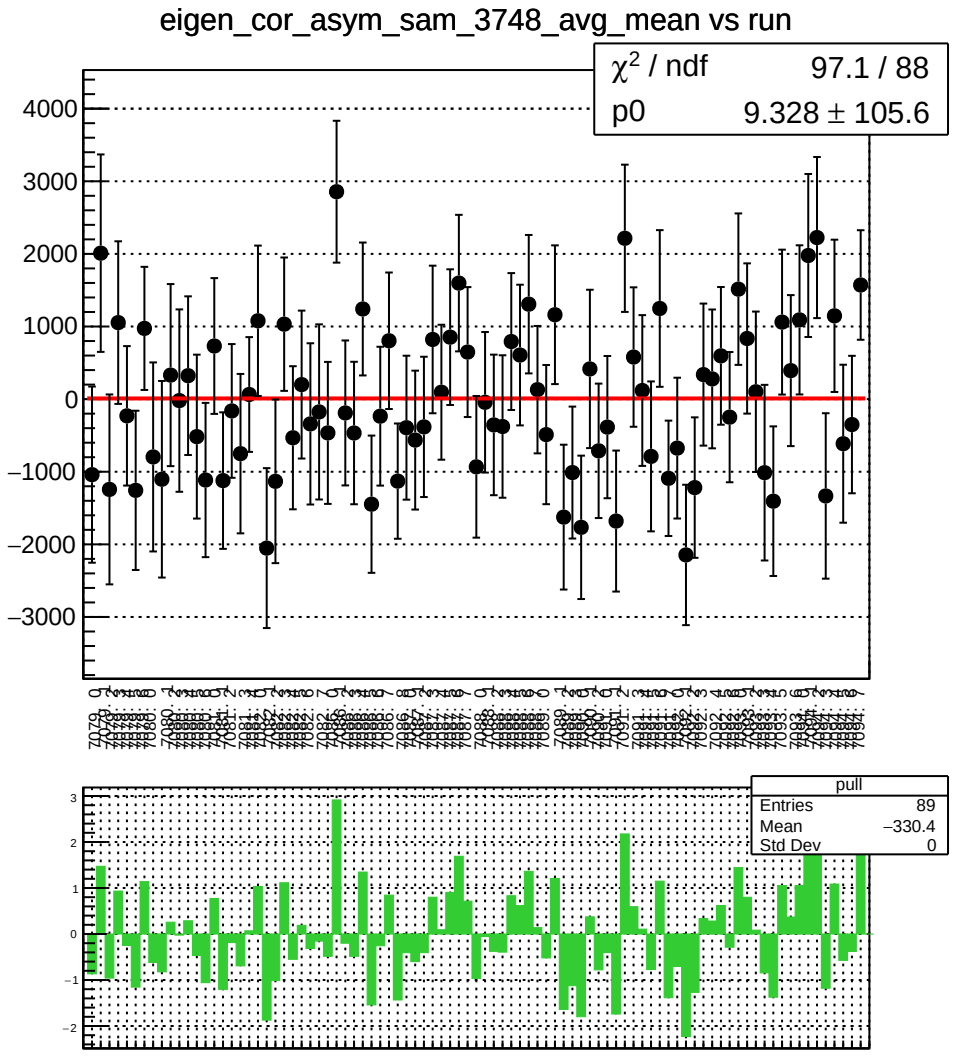

pull1D
Entries 89
Mean −0.008312
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

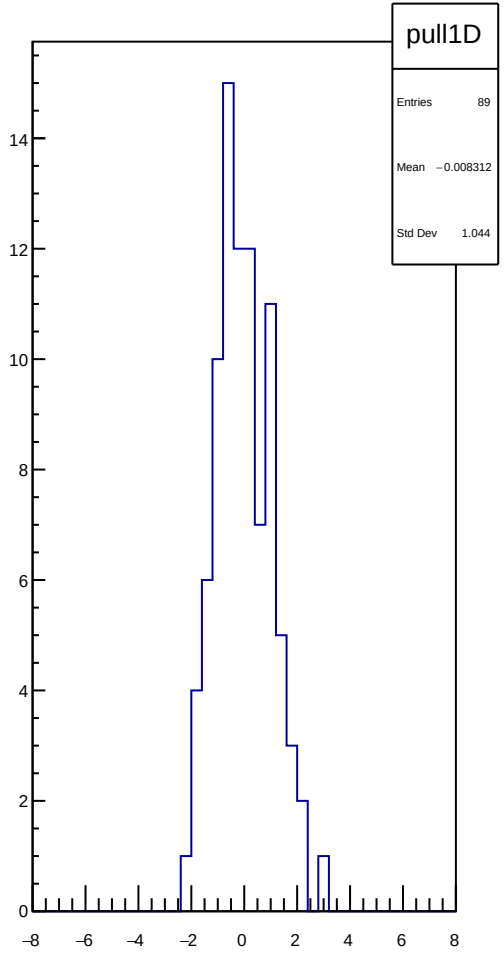

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.334e+04 / 88
p0 96.59 ± 0.07468
130
120
110
100
90

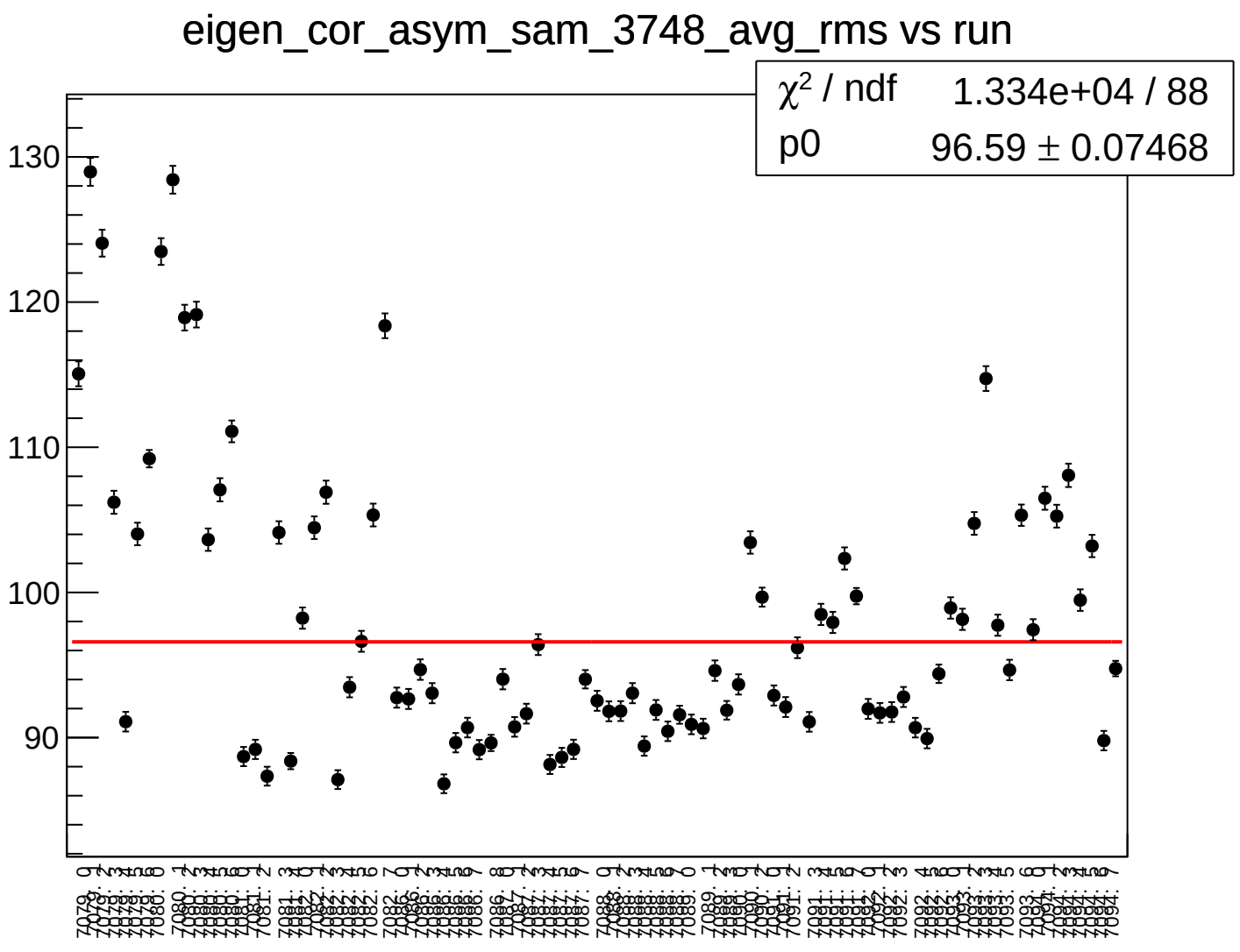

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 86.99 / 88
p0 −1176 ± 1047
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 432.5
Std Dev 0
2
1
0
−1
−2

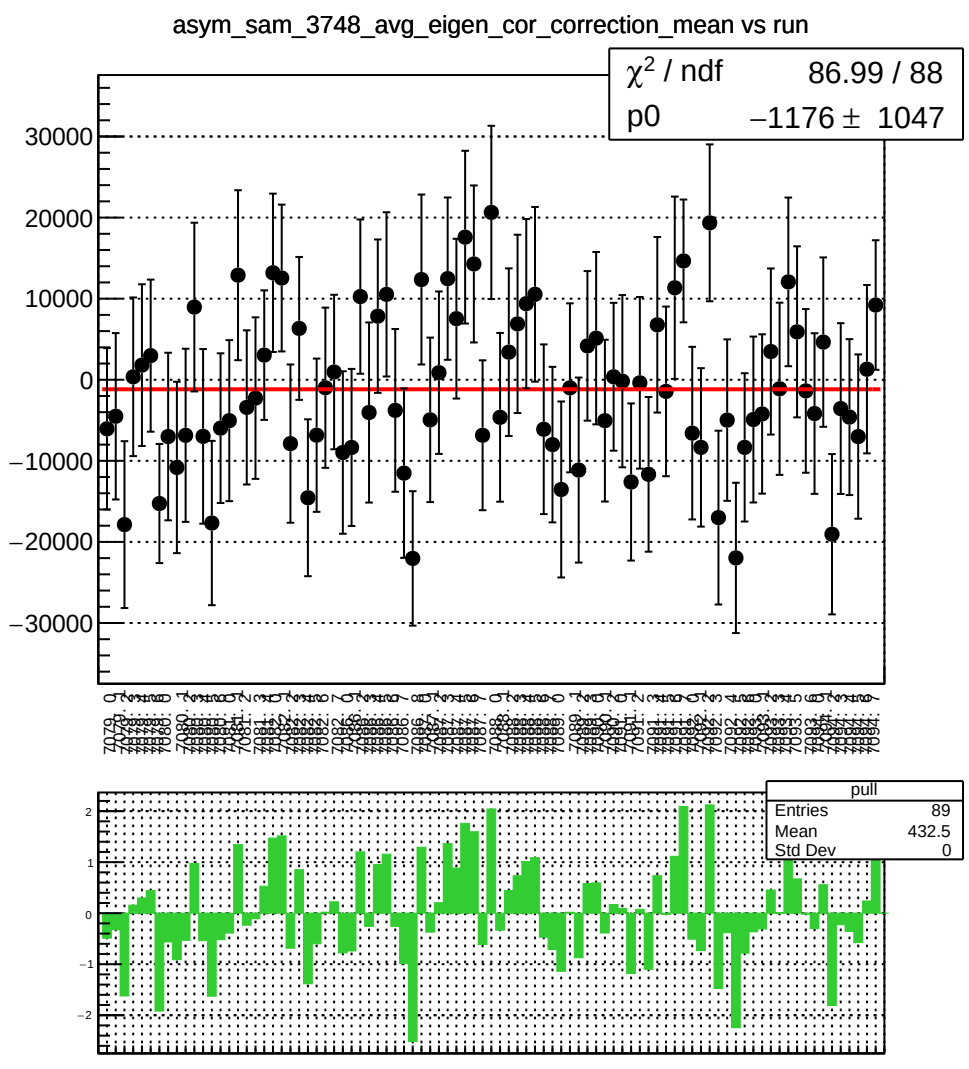

pull1D
Entries 89
Mean 0.004086
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

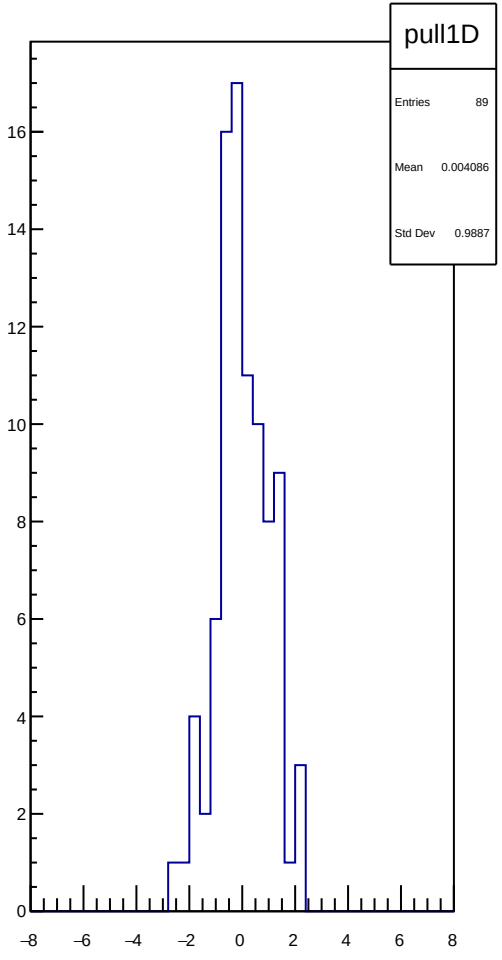

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 3780 / 88
p0 960.1 ± 0.7402
1100
1050
1000
950
900
850

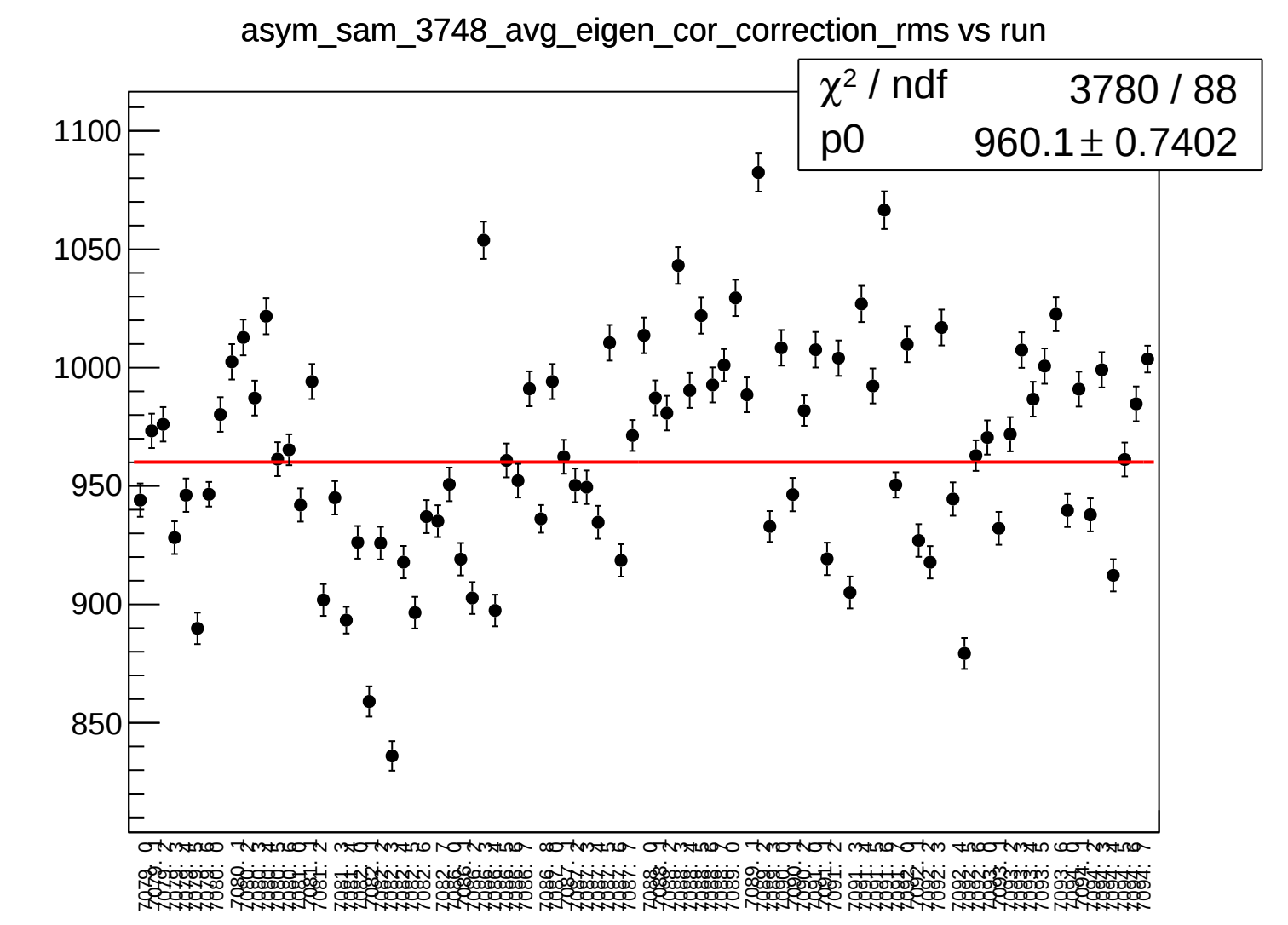

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 97.1 / 88
p0 9.328 ± 105.6
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −330.4
Std Dev 0
3
2
1
0
−1
−2

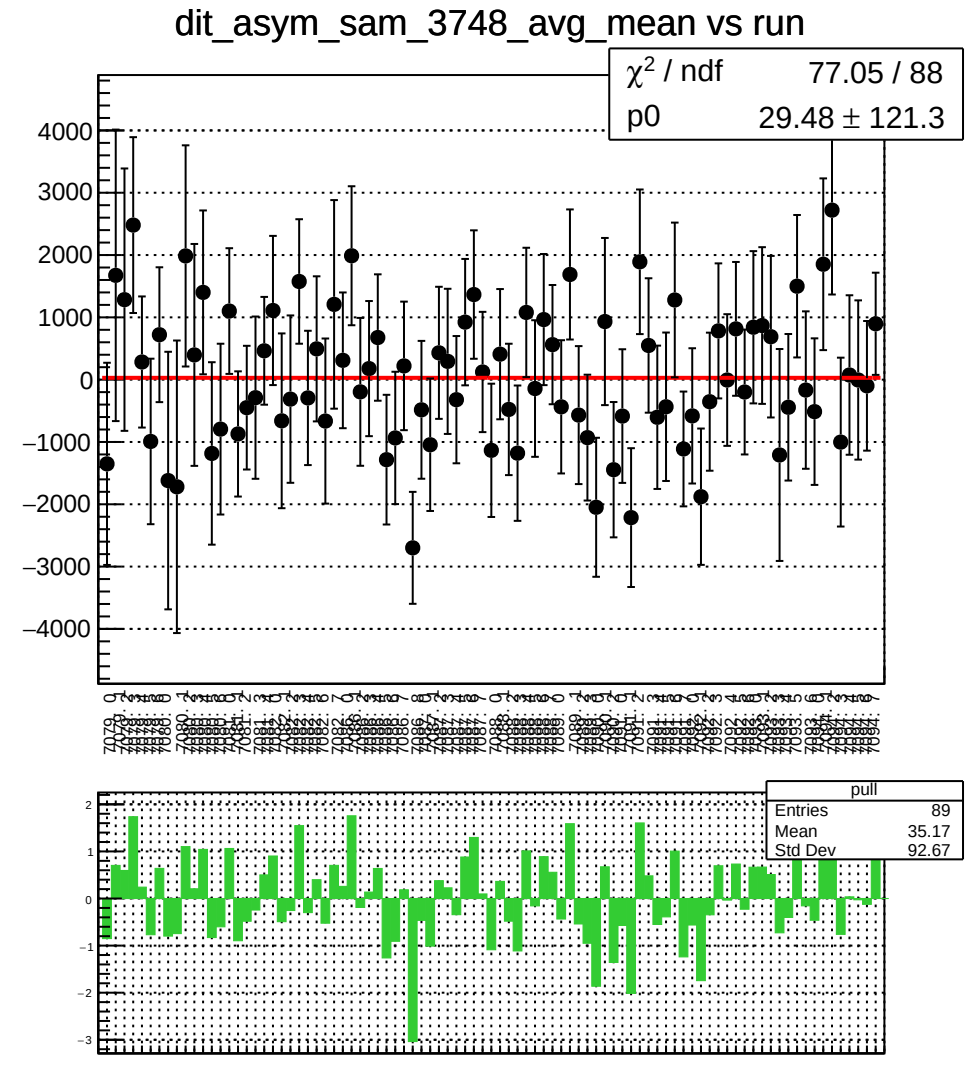

pull1D
Entries 89
Mean −0.008312
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

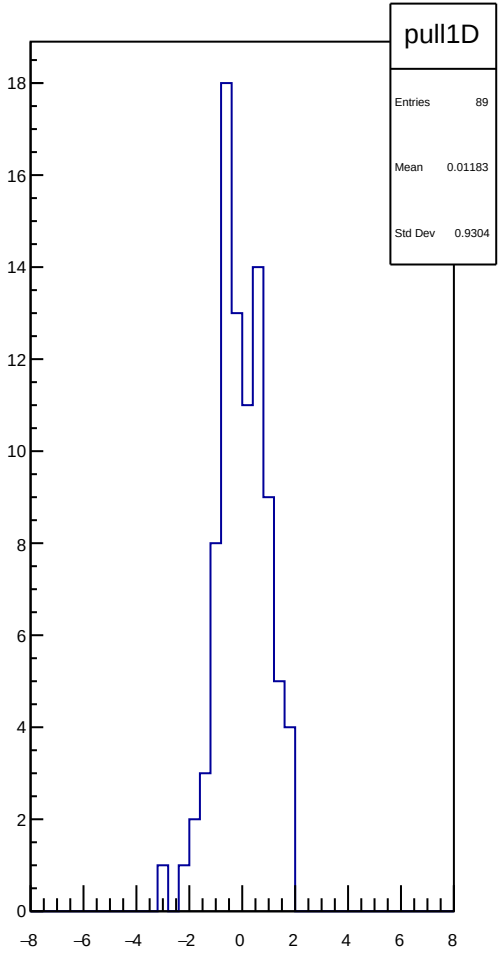

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.334e+04 / 88
p0 96.59 ± 0.07468
130
120
110
100
90

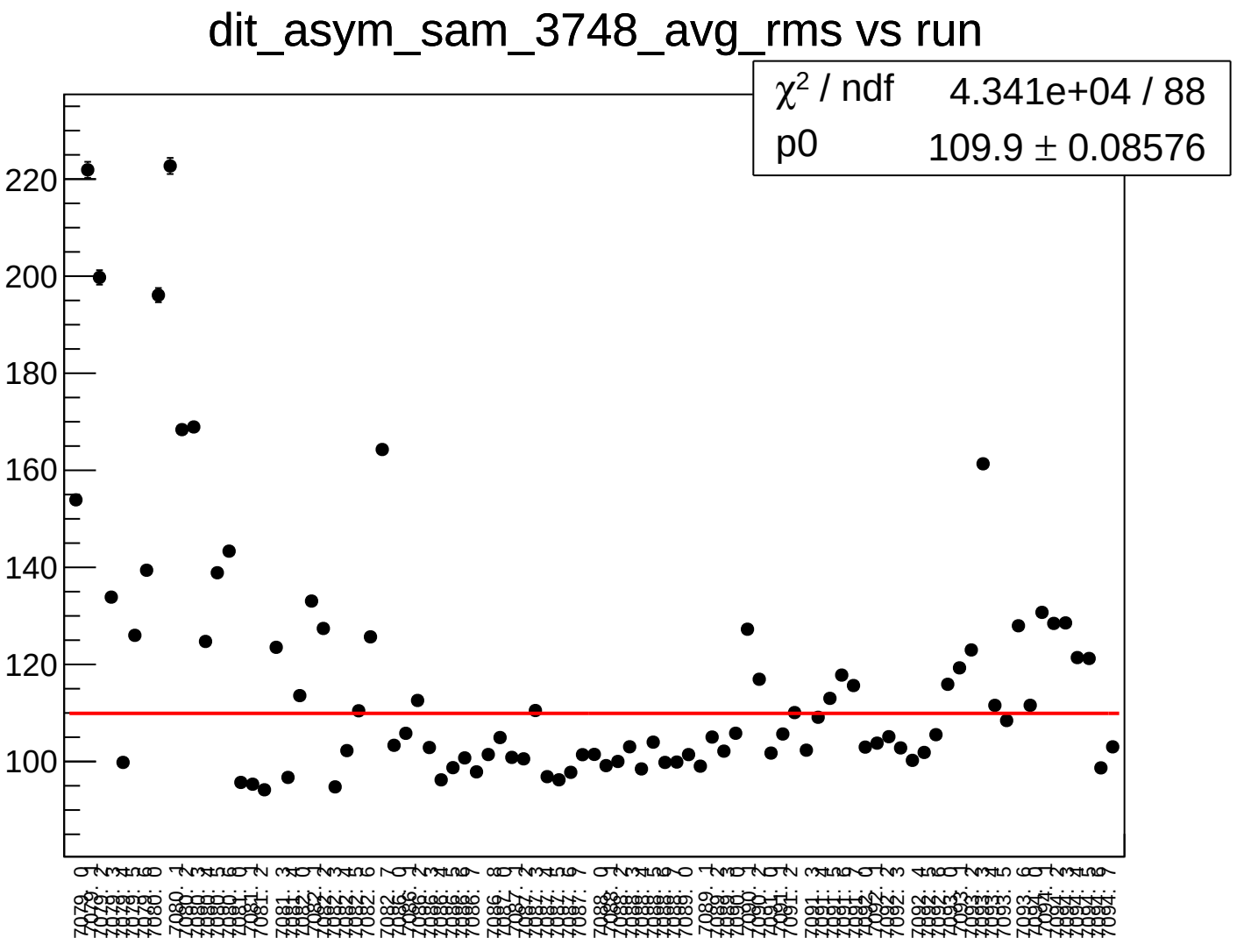

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.99 / 88
p0 −1176 ± 1047
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 432.5
Std Dev 0
2
1
0
−1
−2

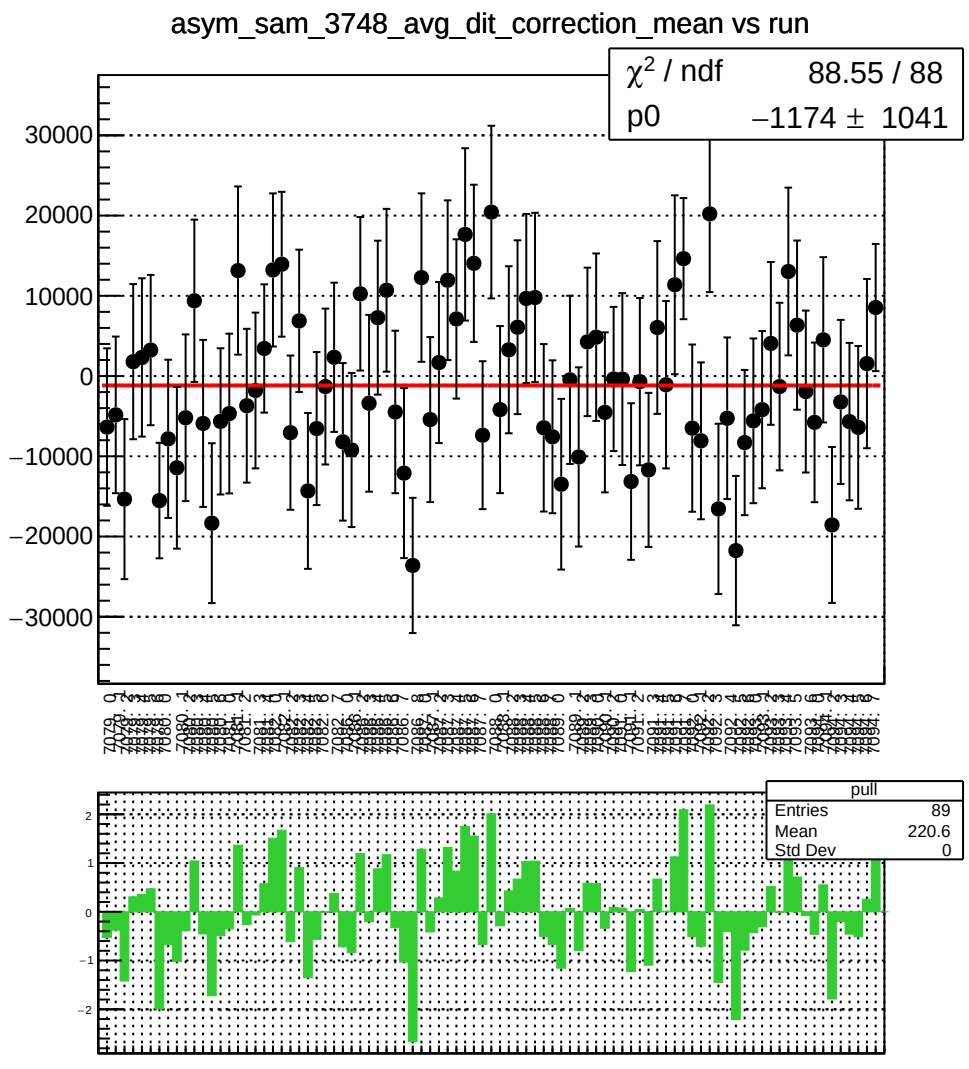

pull1D
Entries 89
Mean 0.004086
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

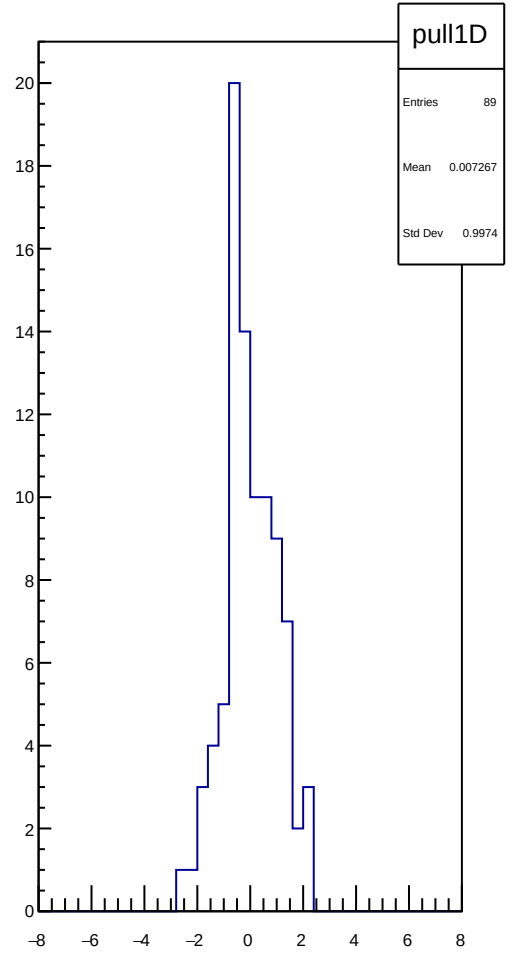

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 3780 / 88
p0 960.1 ± 0.7402
1100
1050
1000
950
900
850

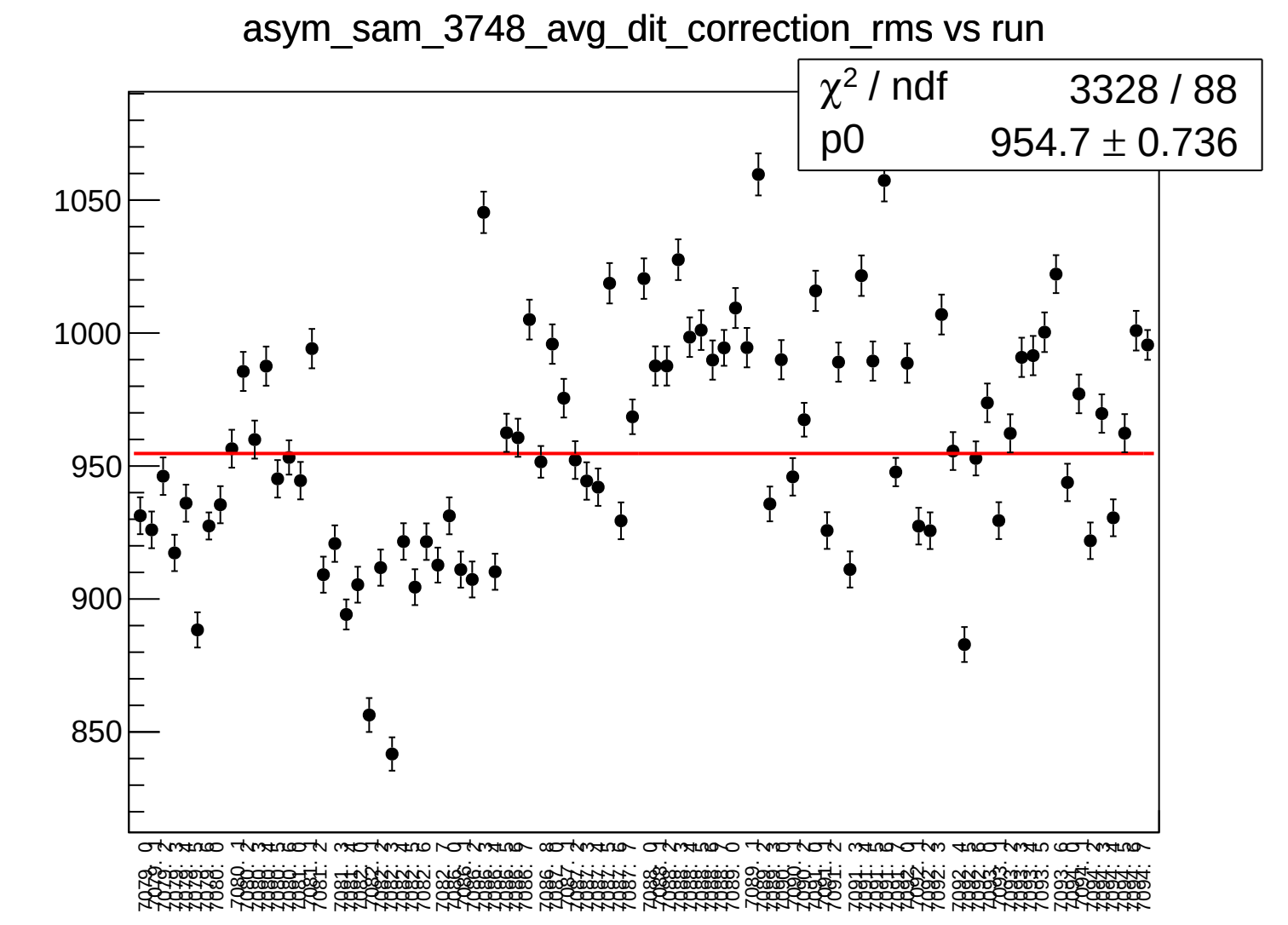

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 77.05 / 88
p0 29.48 ± 121.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean 35.17
Std Dev 92.67
2
1
0
−1
−2
−3

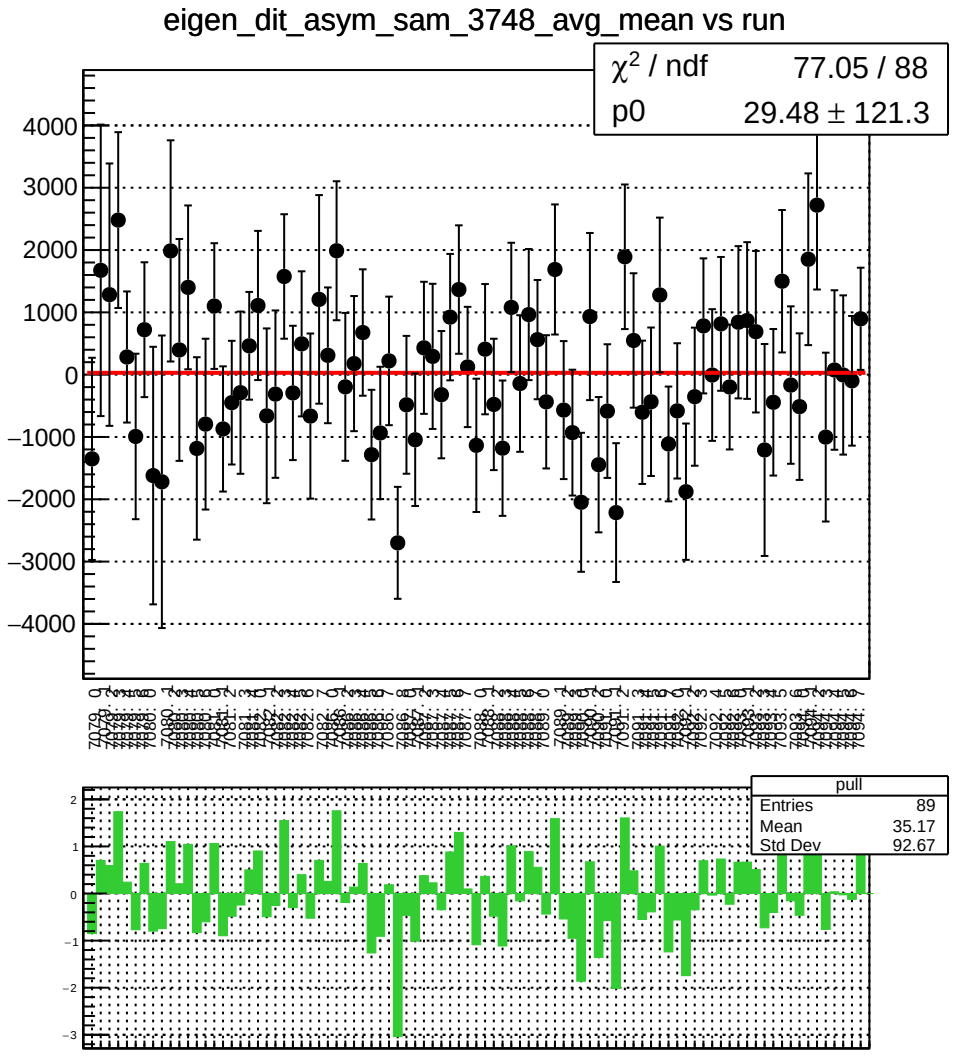

pull1D
Entries 89
Mean 0.01183
Std Dev 0.9304
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

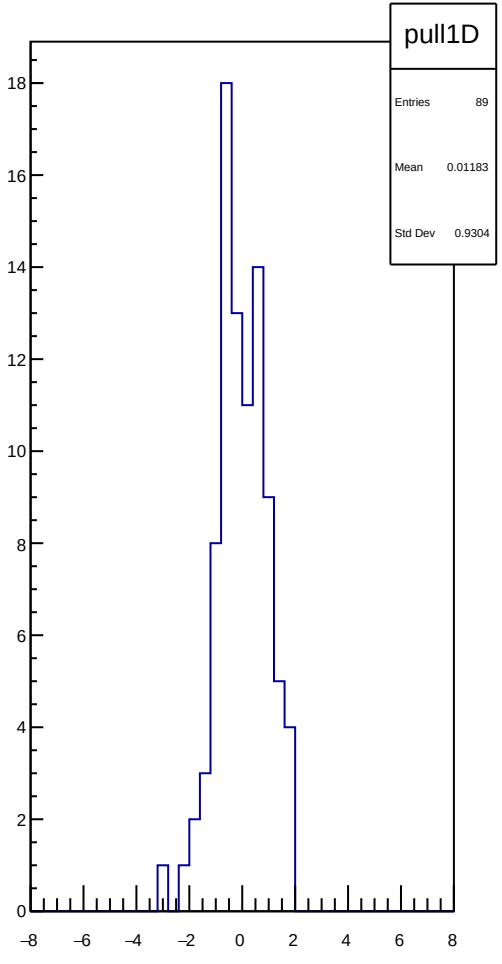

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 4.341e+04 / 88
p0 109.9 ± 0.08576
220
200
180
160
140
120
100

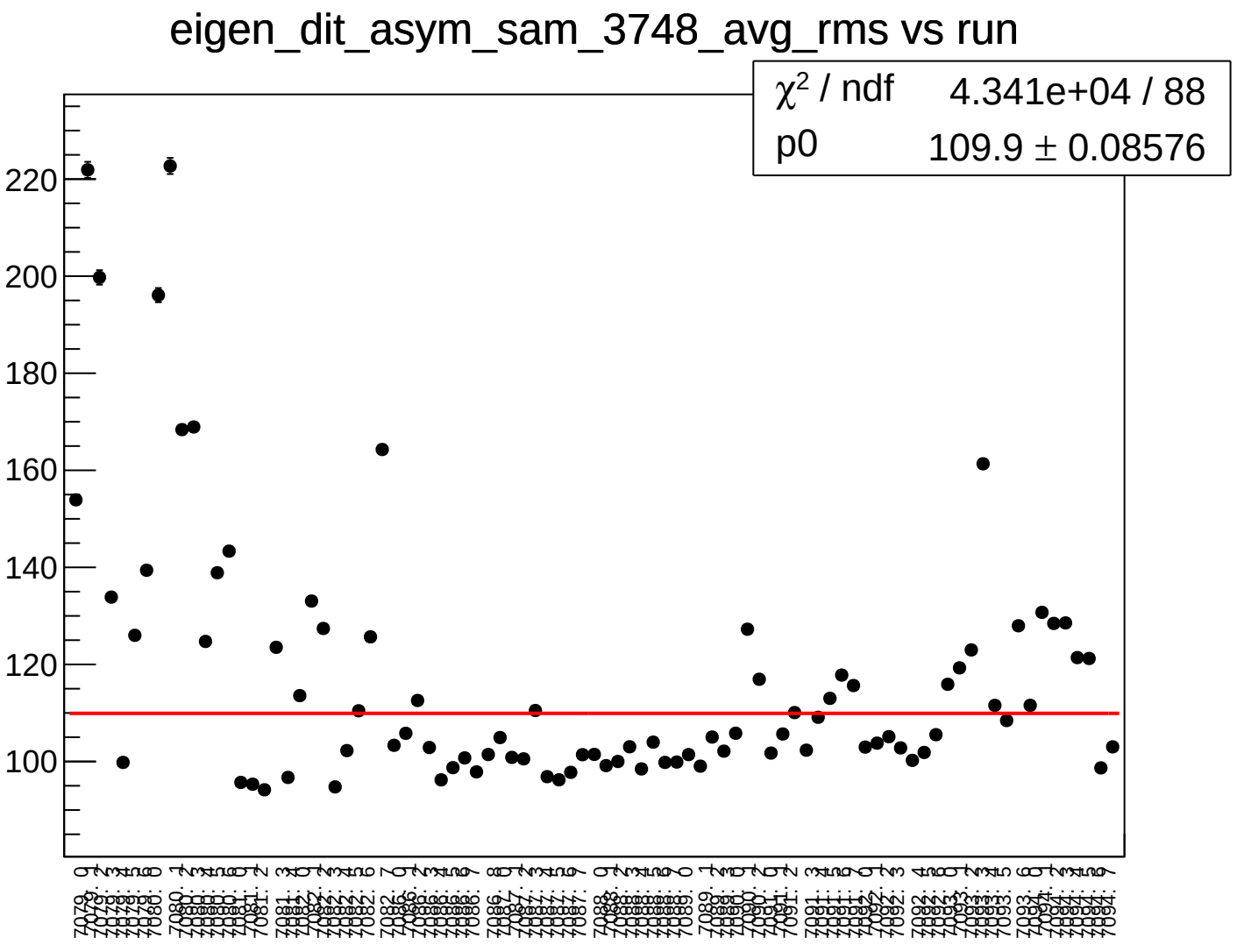

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 88.55 / 88
p0 −1174 ± 1041
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 220.6
Std Dev 0
2
1
0
−1
−2

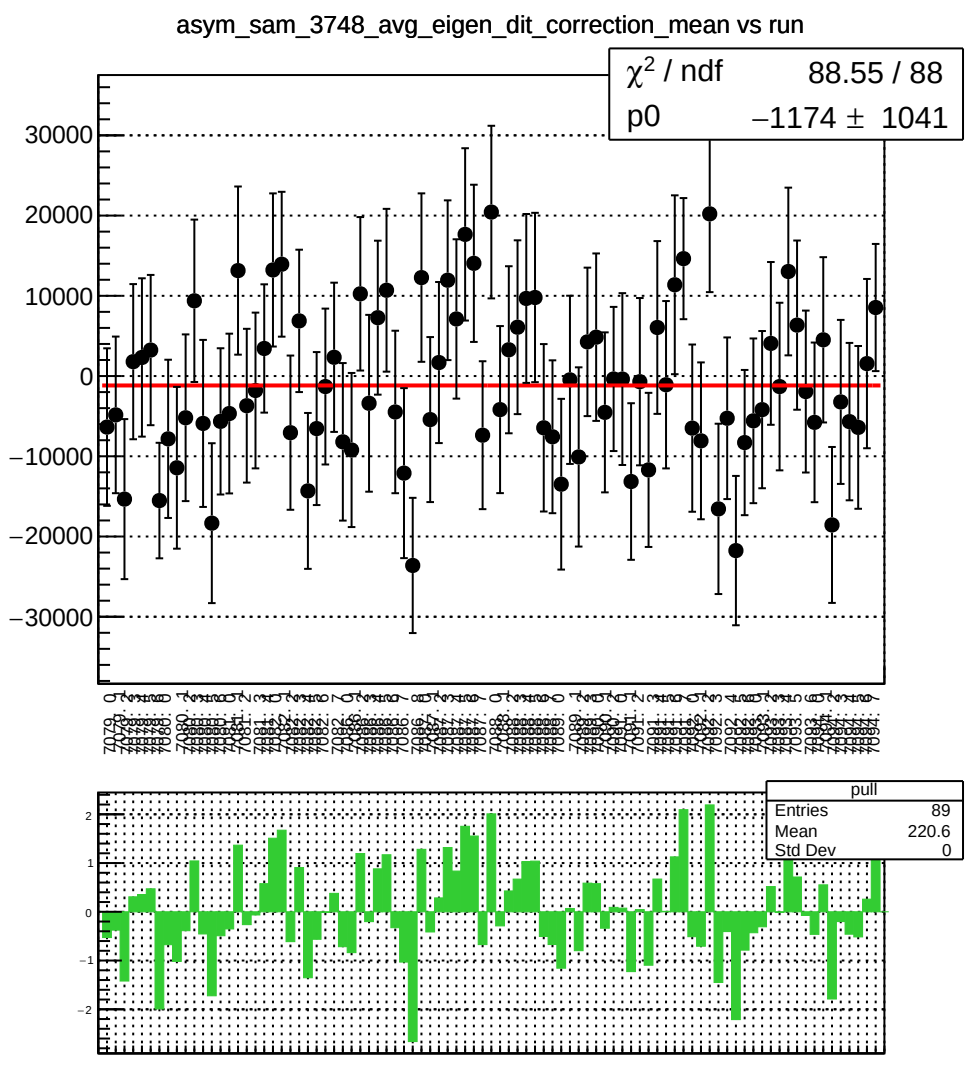

pull1D
Entries 89
Mean 0.007267
Std Dev 0.9974
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

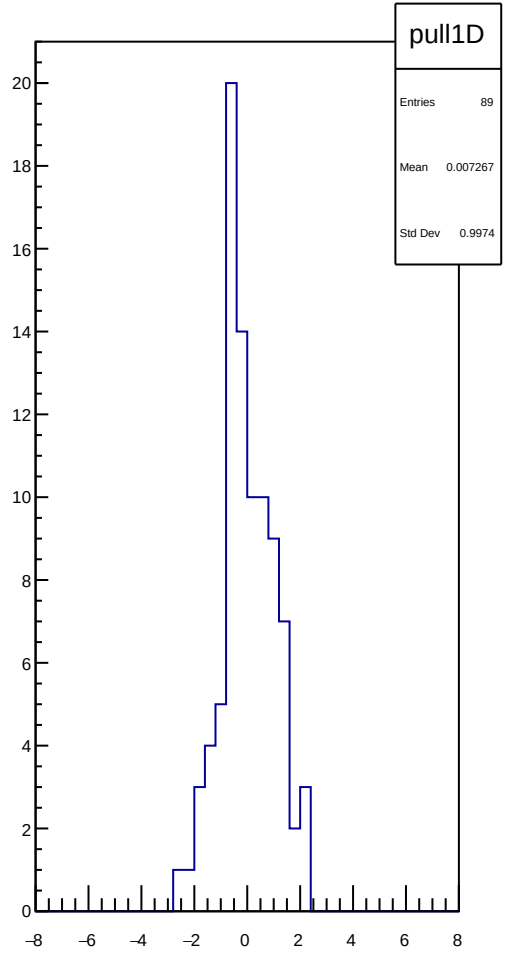

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 3328 / 88
p0 954.7 ± 0.736
1050
1000
950
900
850

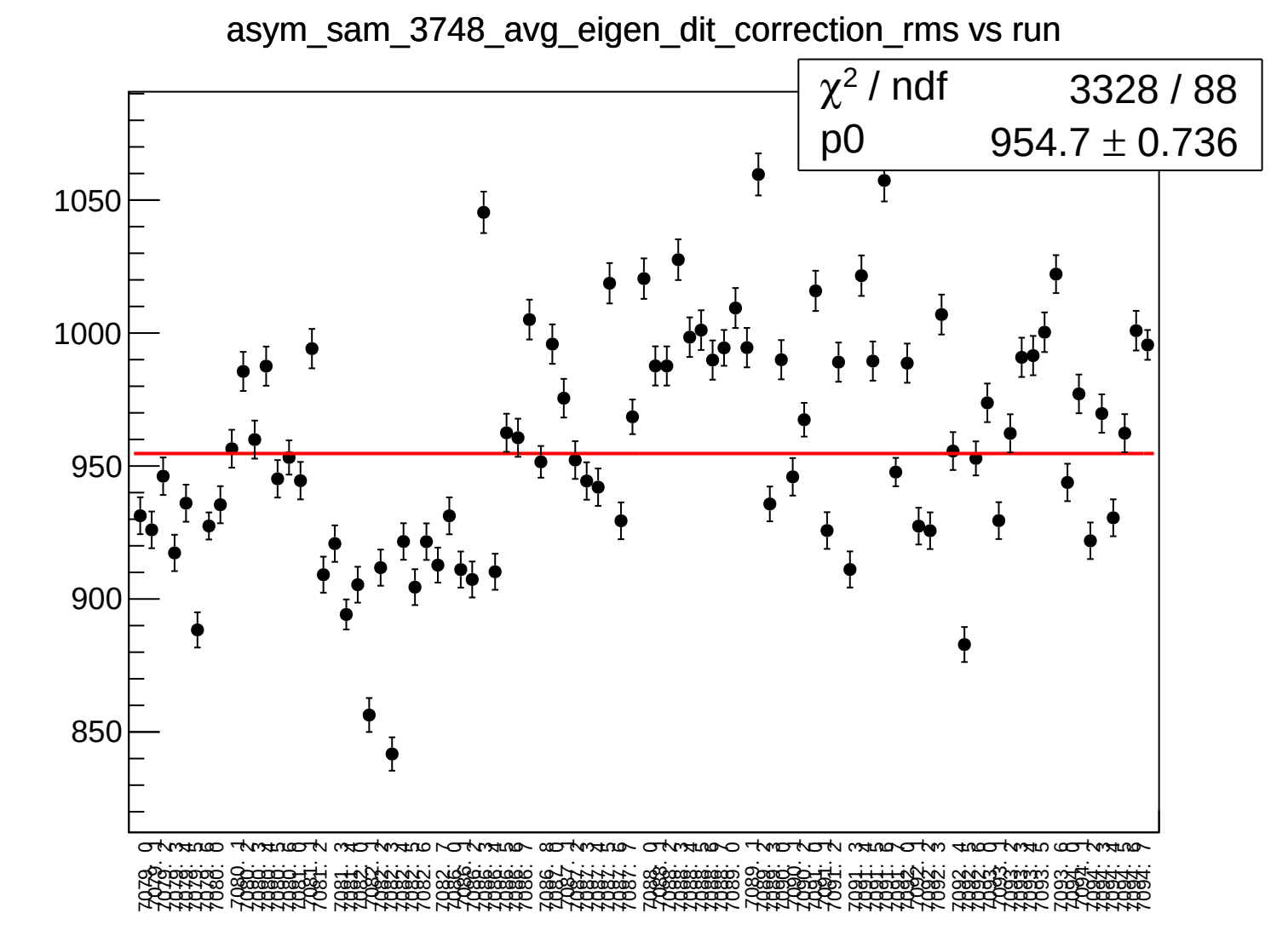

eigen_dit_asym_sam_3748_avg_mean vs run
χ^2 / ndf 77.05 / 88
p0 29.48 ± 121.3
pull
Entries 89
Mean 35.17
Std Dev 92.67

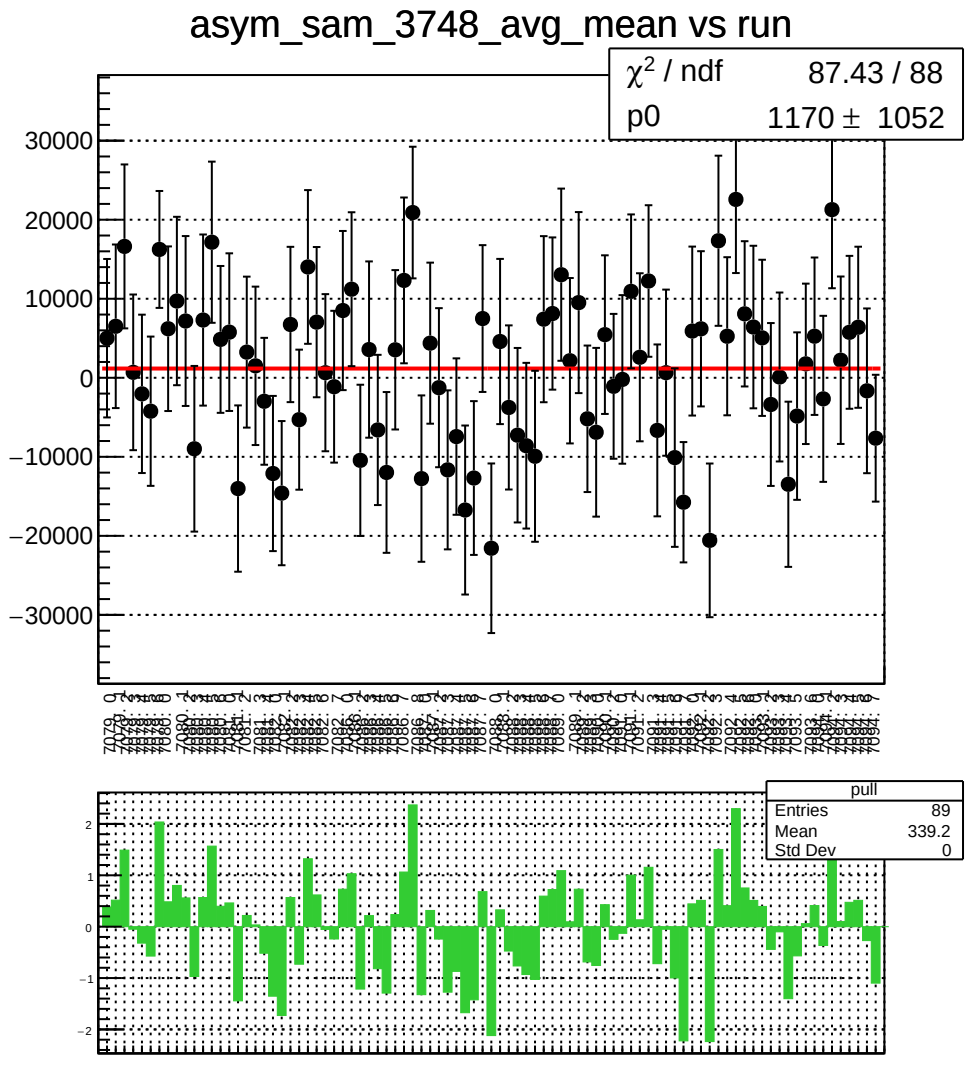

pull1D
Entries 89
Mean 0.01183
Std Dev 0.9304

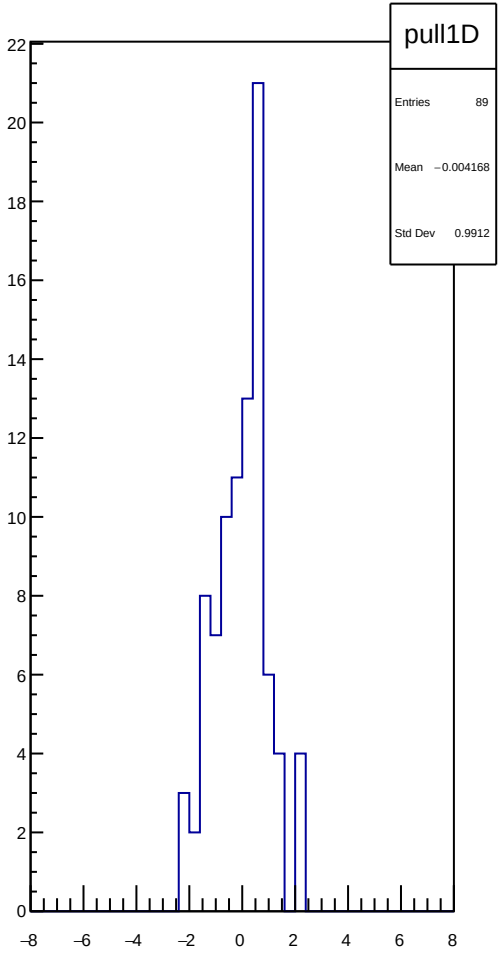

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 4.341e+04 / 88
p0 109.9 ± 0.08576
220
200
180
160
140
120
100

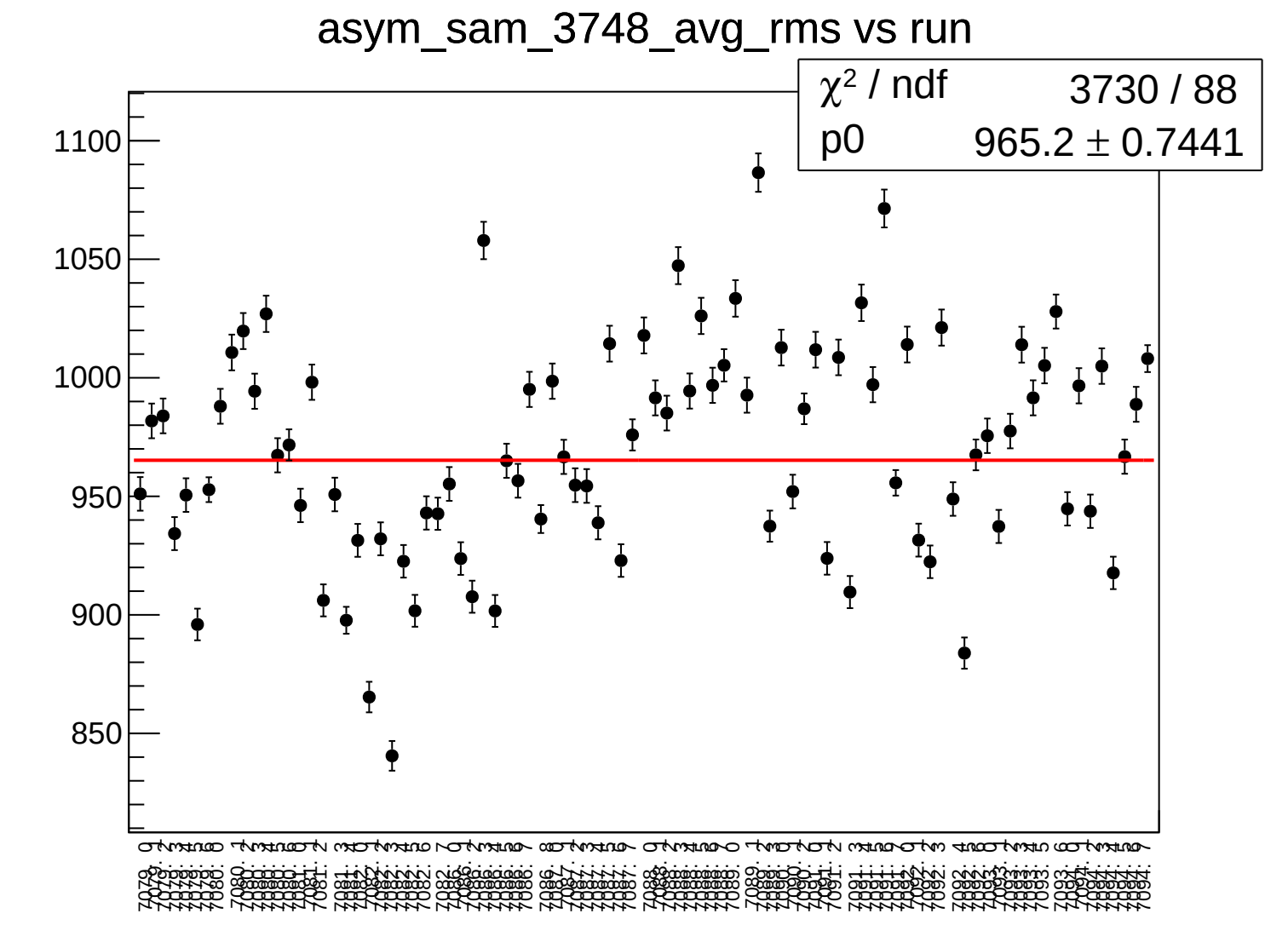

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.55 / 88
p0 −1174 ± 1041
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 220.6
Std Dev 0
2
1
0
−1
−2

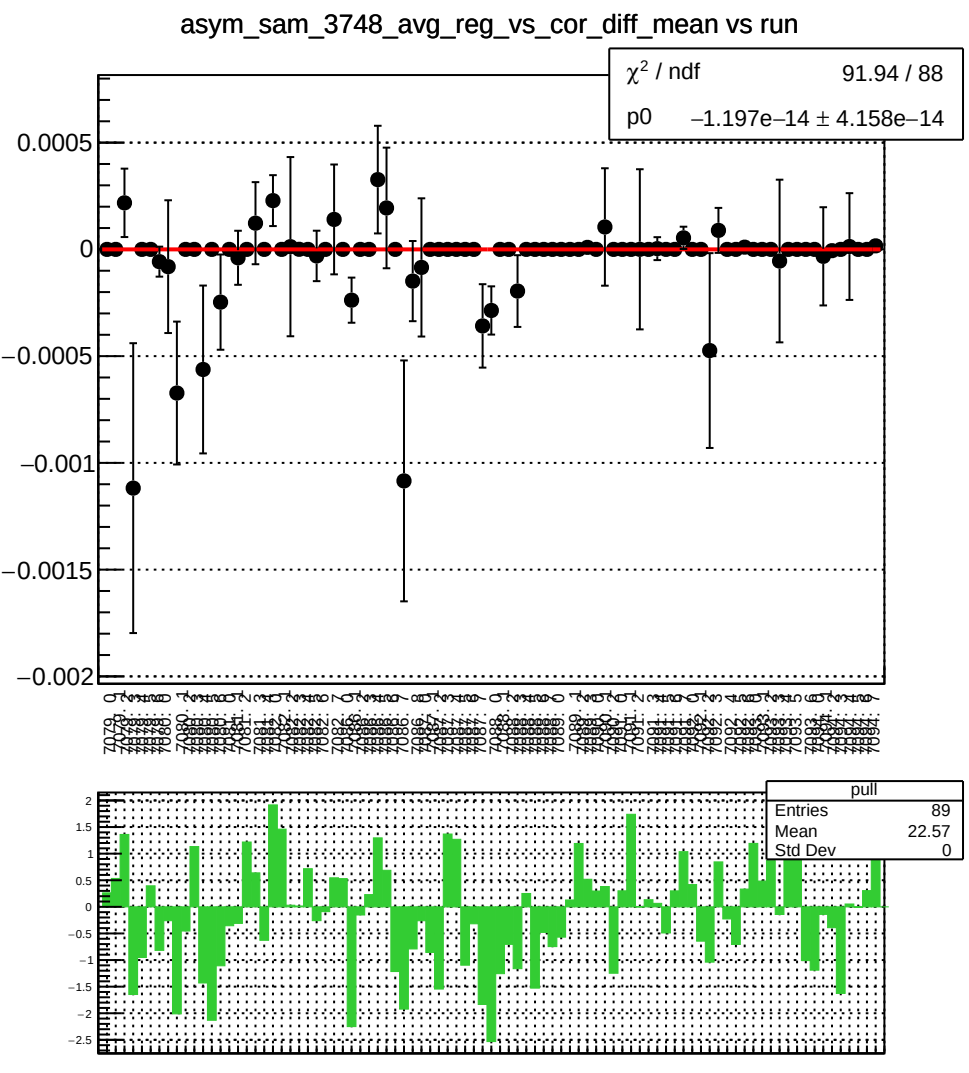

pull1D
Entries 89
Mean 0.007267
Std Dev 0.9974
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

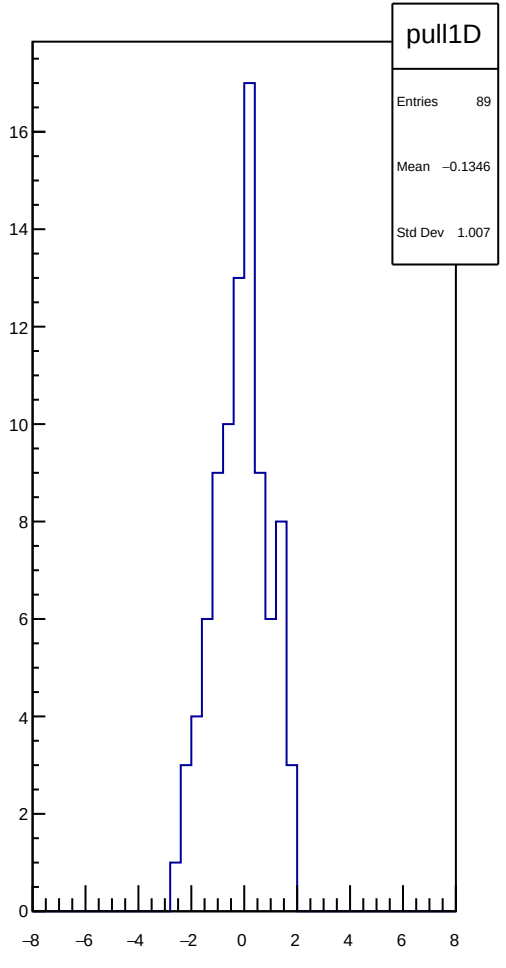

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 3328 / 88
p0 954.7 ± 0.736
1050
1000
950
900
850

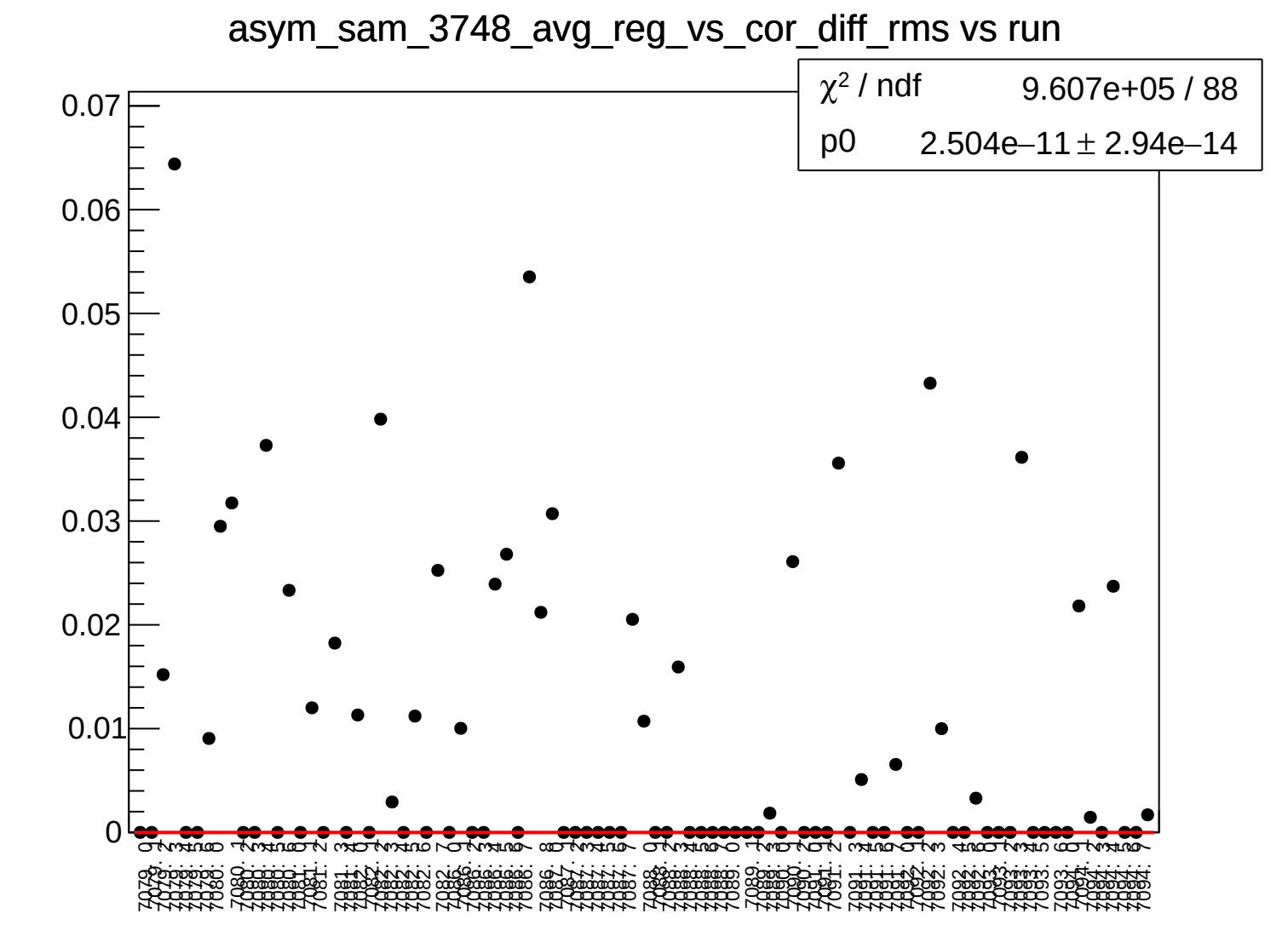

asym_sam_3748_avg_mean vs run
χ² / ndf 87.43 / 88
p0 1170 ± 1052
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 339.2
Std Dev 0
2
1
0
−1
−2

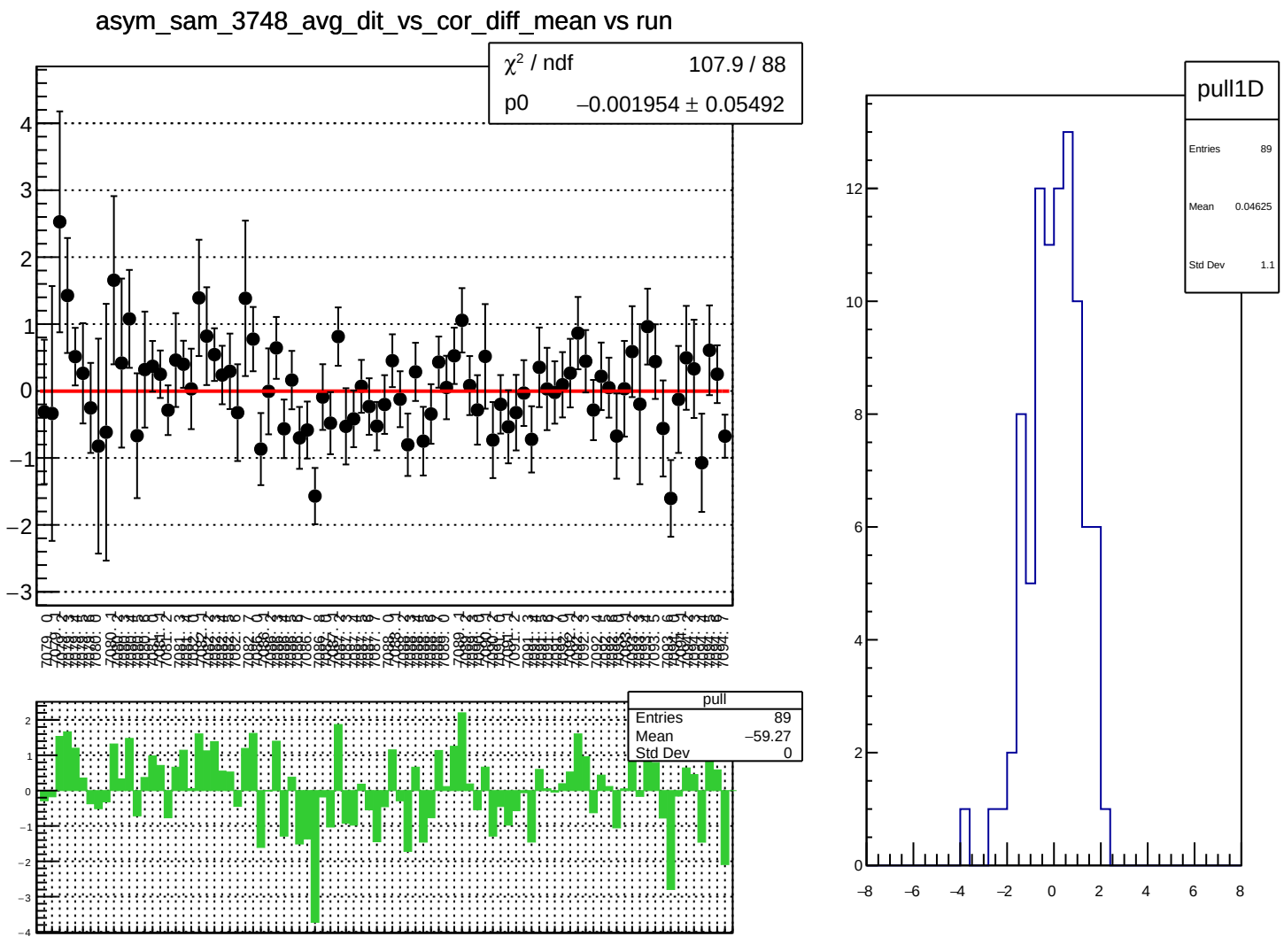

pull1D
Entries 89
Mean −0.004168
Std Dev 0.9912
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

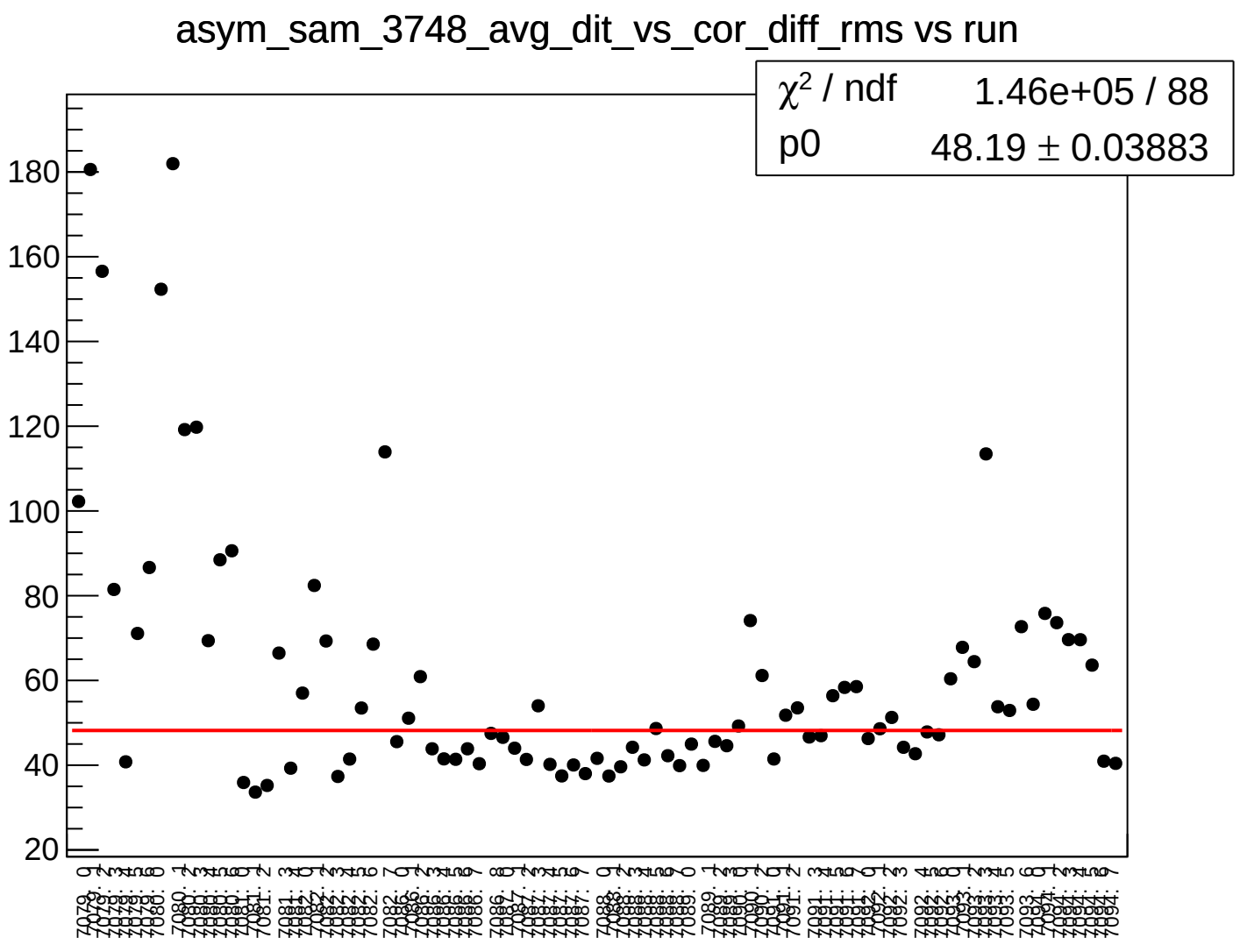

asym_sam_3748_avg_rms vs run
χ² / ndf 3730 / 88
p0 965.2 ± 0.7441
1100
1050
1000
950
900
850

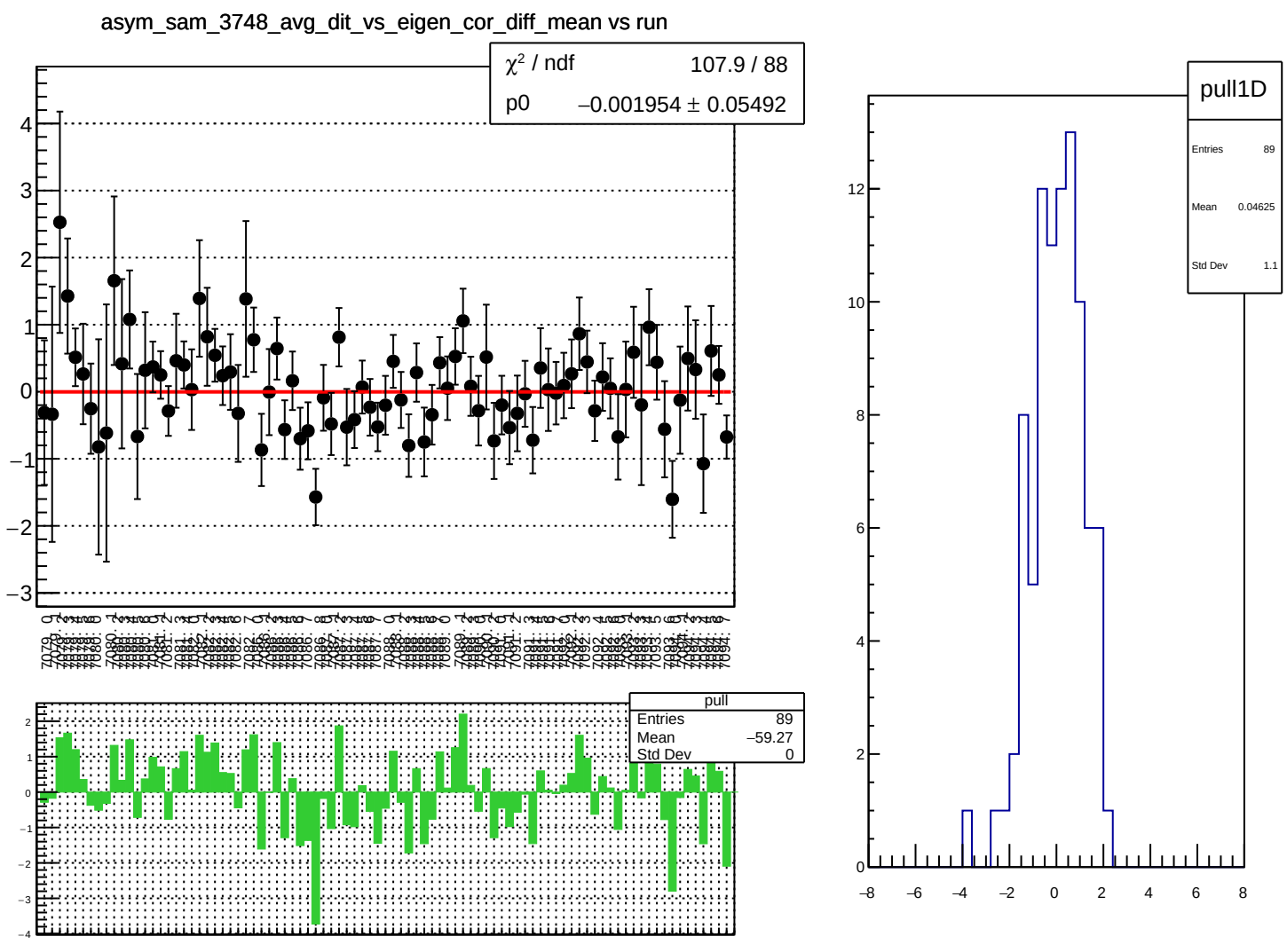

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.94 / 88
p0 −1.197e−14 ± 4.158e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 89
Mean 22.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

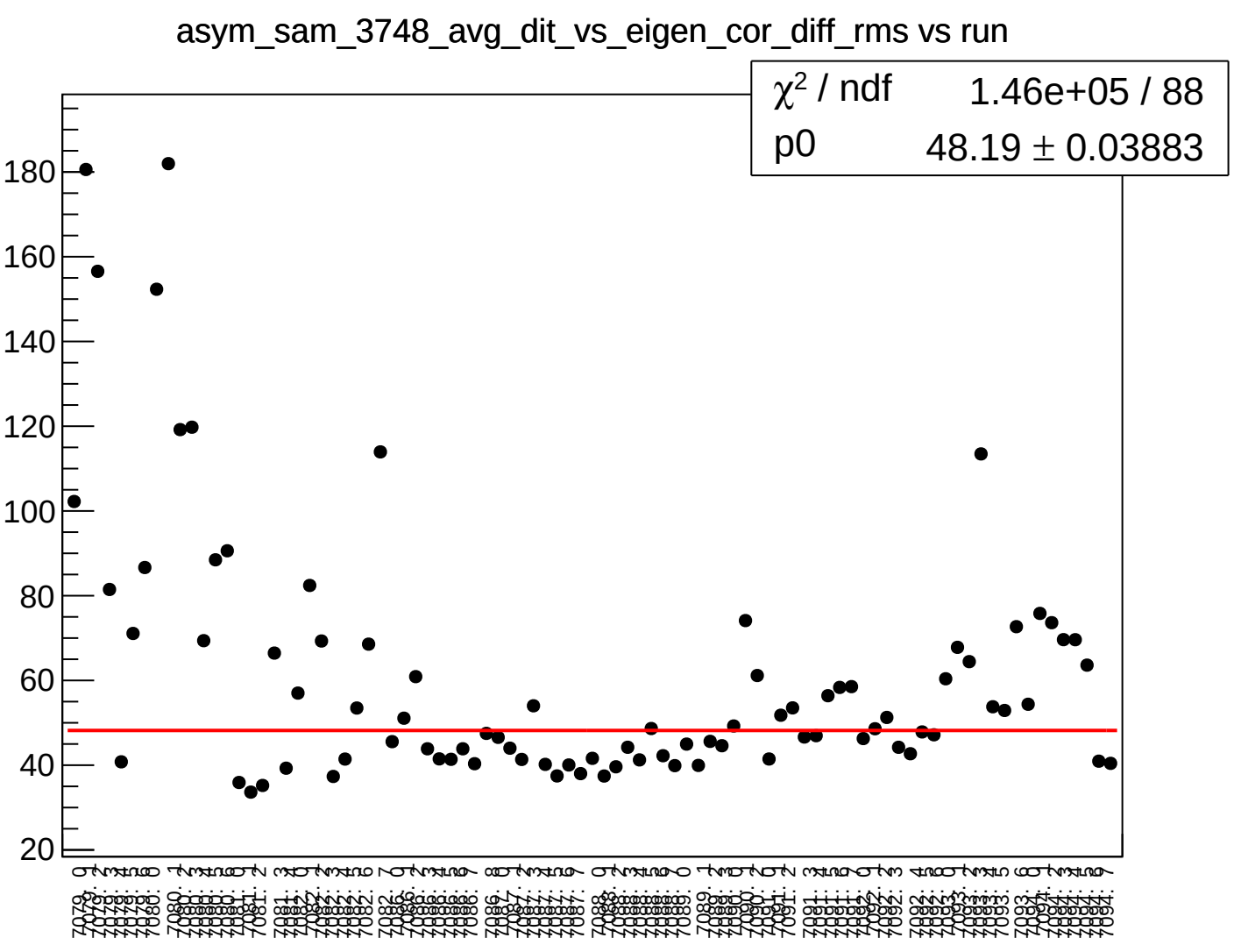

pull1D
Entries 89
Mean −0.1346
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

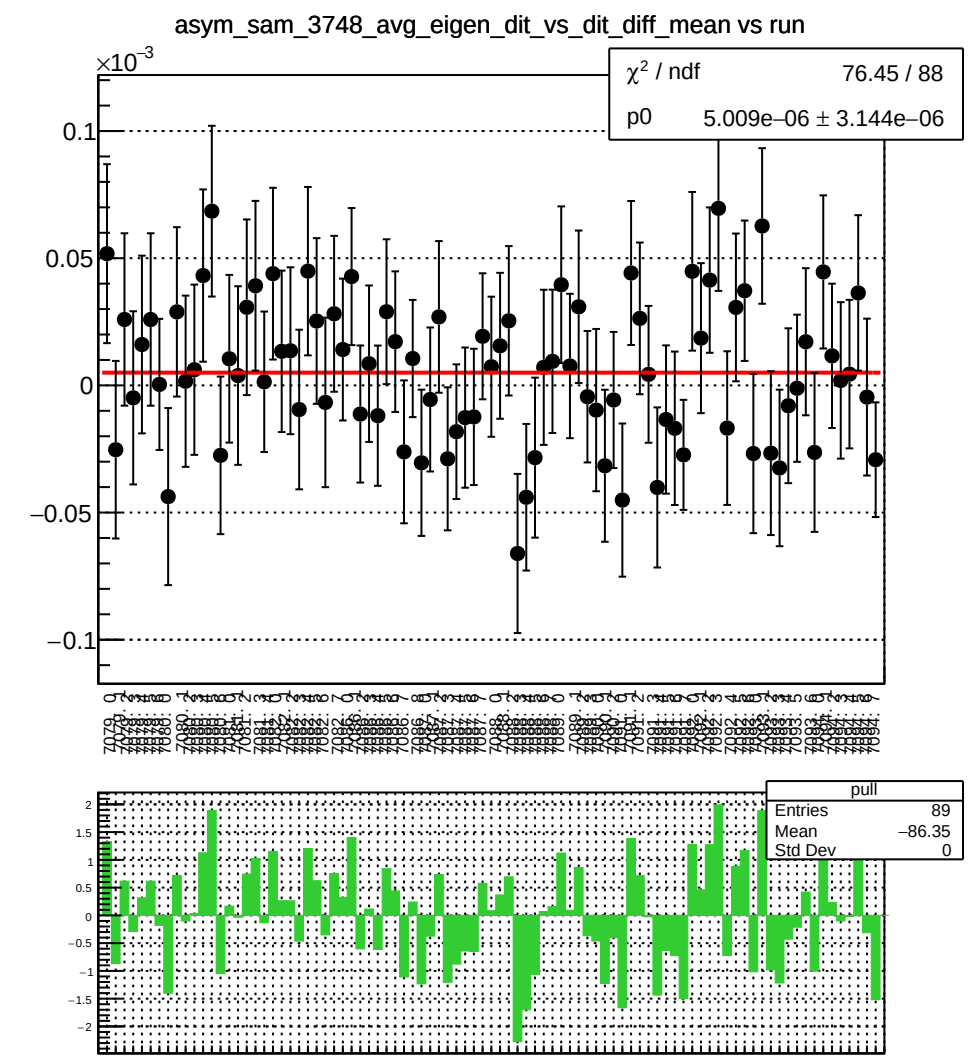

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.607e+05 / 88
p0 2.504e−11 ± 2.94e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

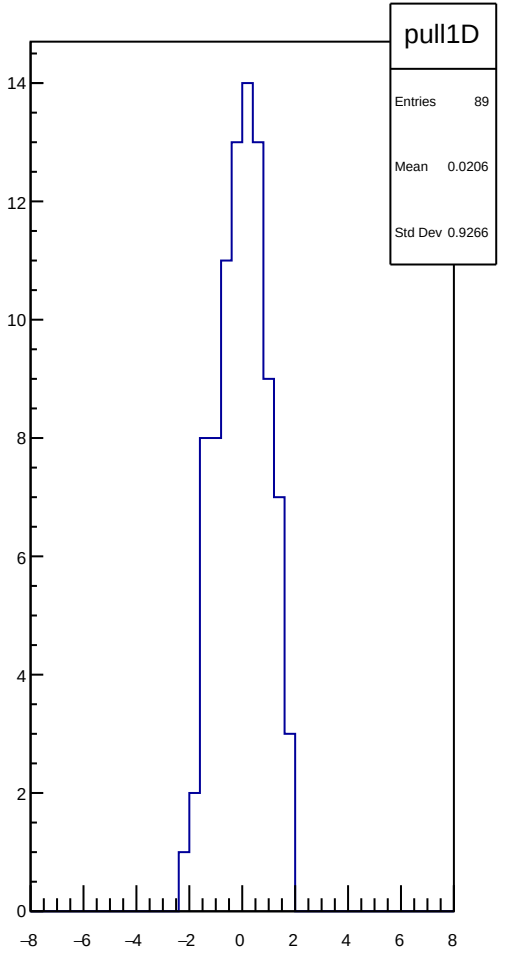

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 88
p0 −0.001954 ± 0.05492
pull
Entries 89
Mean −59.27
Std Dev 0
pull1D
Entries 89
Mean 0.04625
Std Dev 1.1

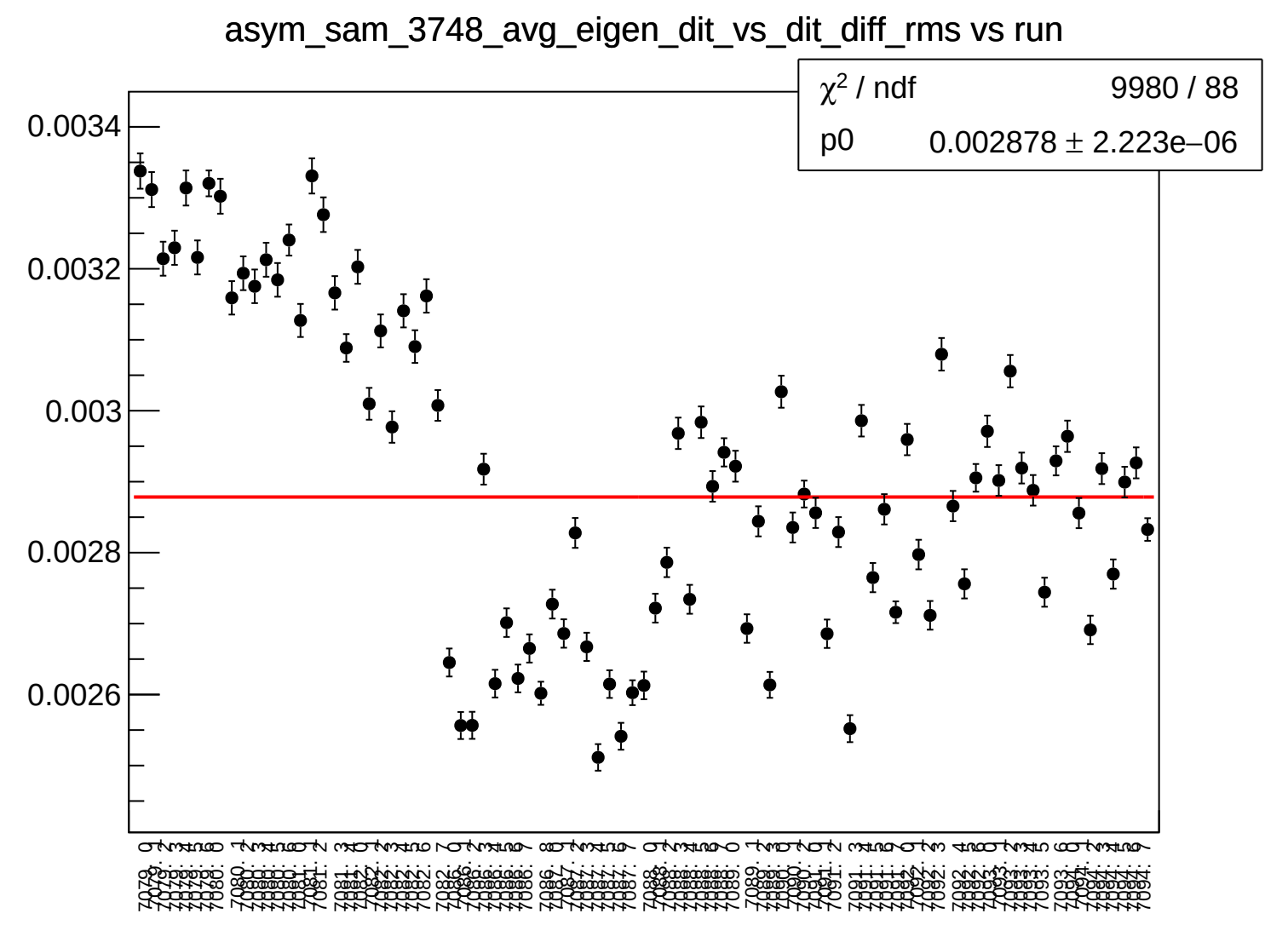

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.46e+05 / 88
p0 48.19 ± 0.03883
180
160
140
120
100
80
60
40
20

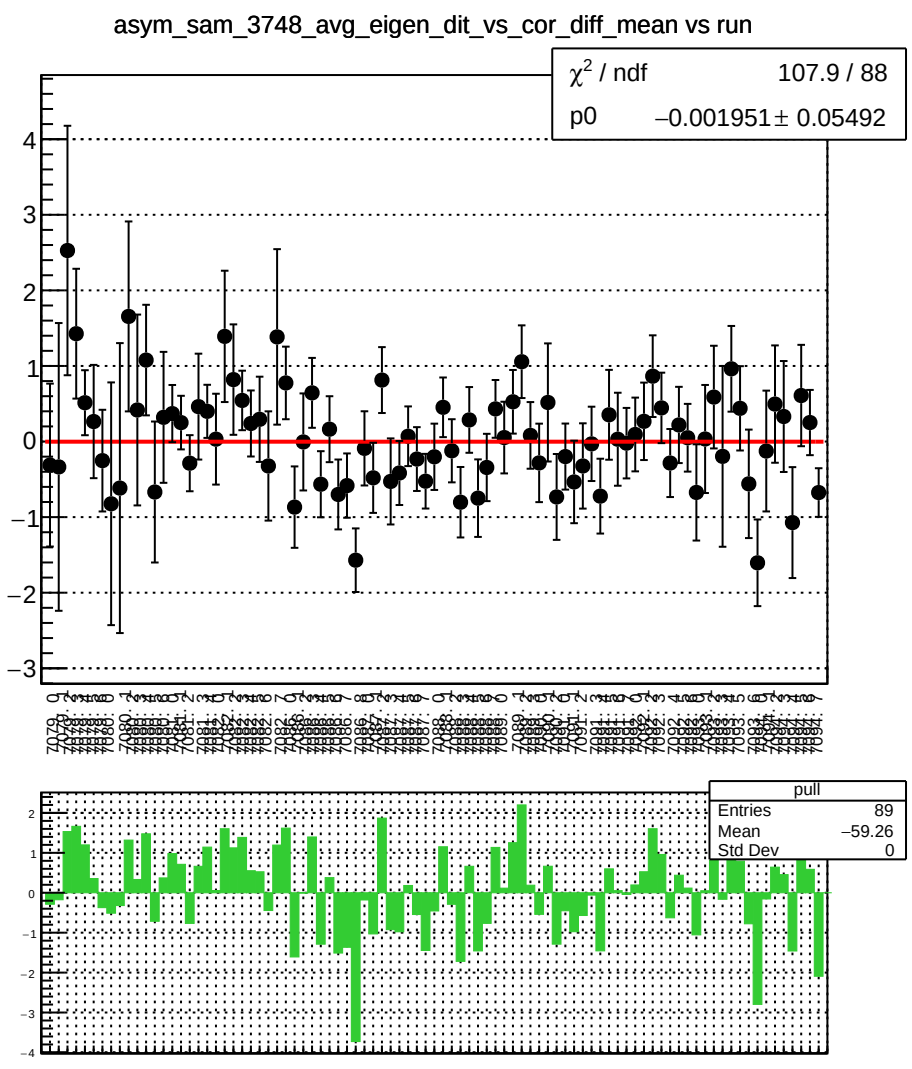

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.9 / 88
p0 −0.001954 ± 0.05492
pull
Entries 89
Mean −59.27
Std Dev 0
pull1D
Entries 89
Mean 0.04625
Std Dev 1.1

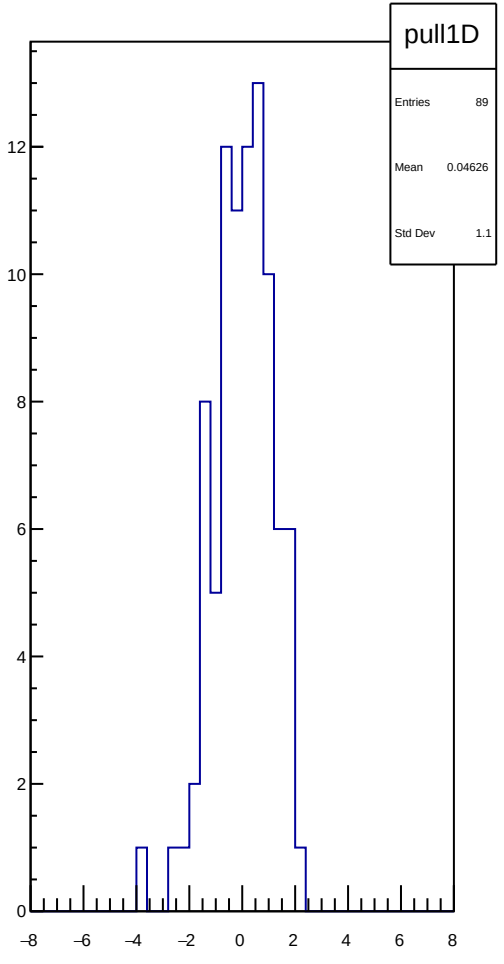

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.46e+05 / 88
p0 48.19 ± 0.03883
180
160
140
120
100
80
60
40
20

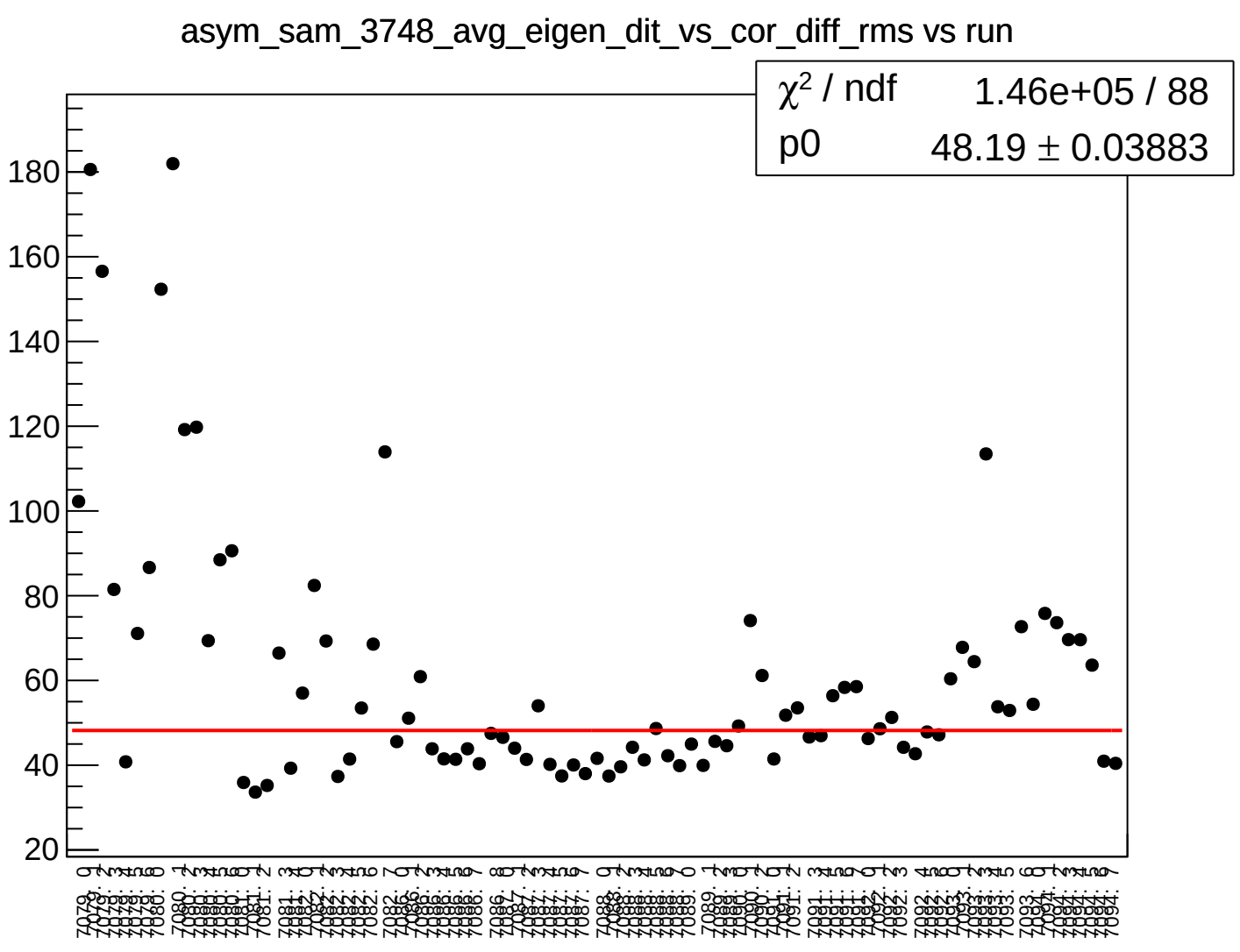

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.45 / 88
p0 5.009e−06 ± 3.144e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −86.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

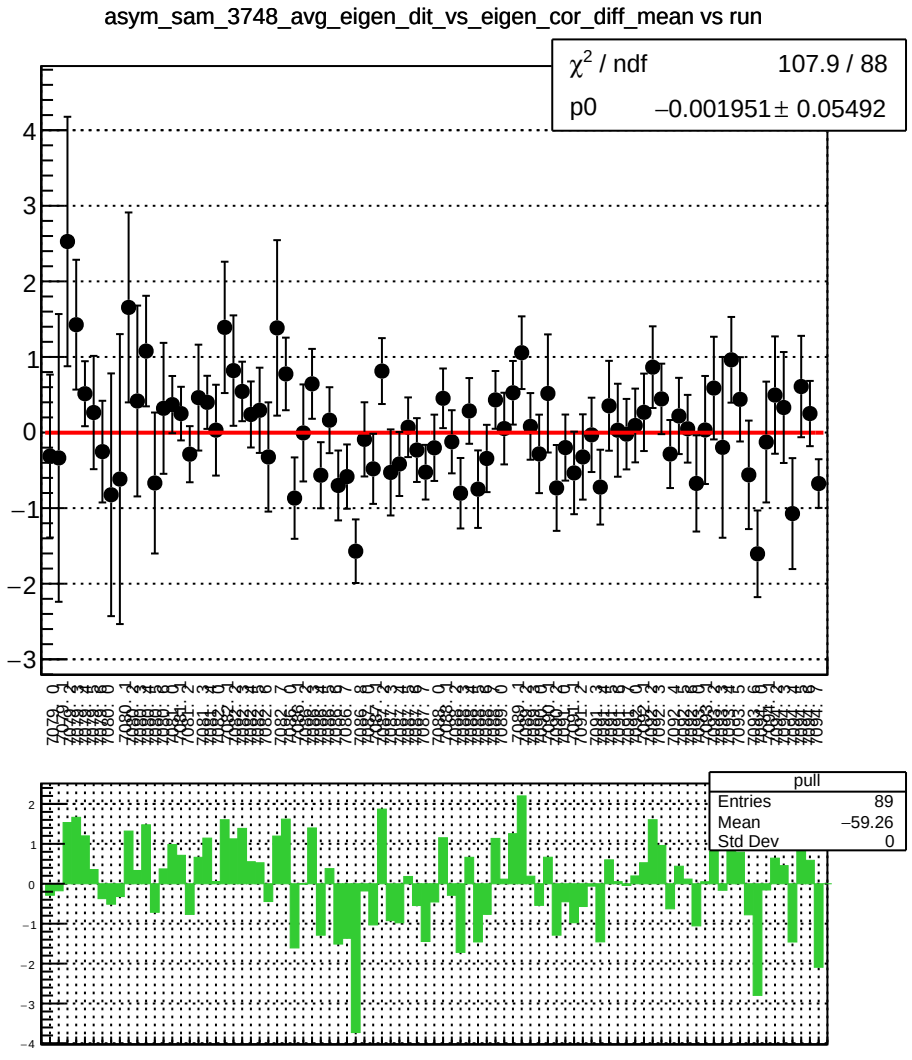

pull1D
Entries 89
Mean 0.0206
Std Dev 0.9266
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

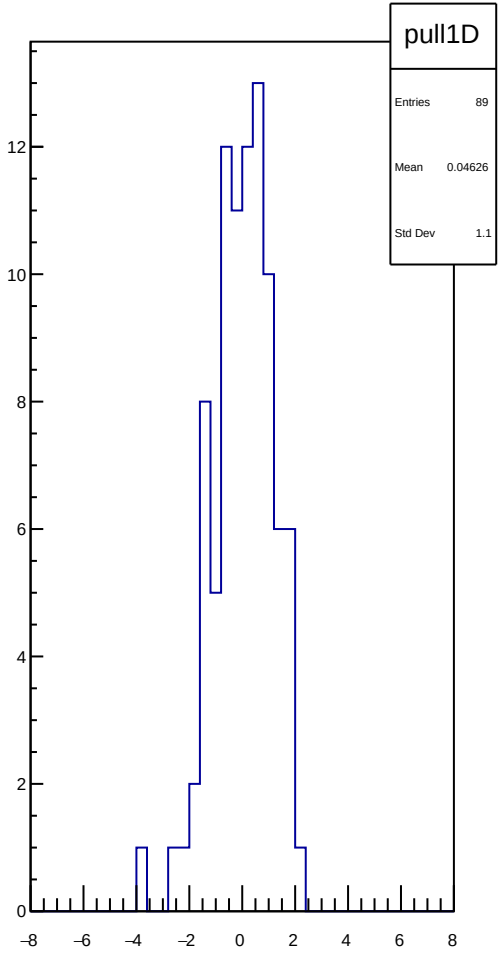

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9980 / 88
p0 0.002878 ± 2.223e−06
0.0034
0.0032
0.003
0.0028
0.0026

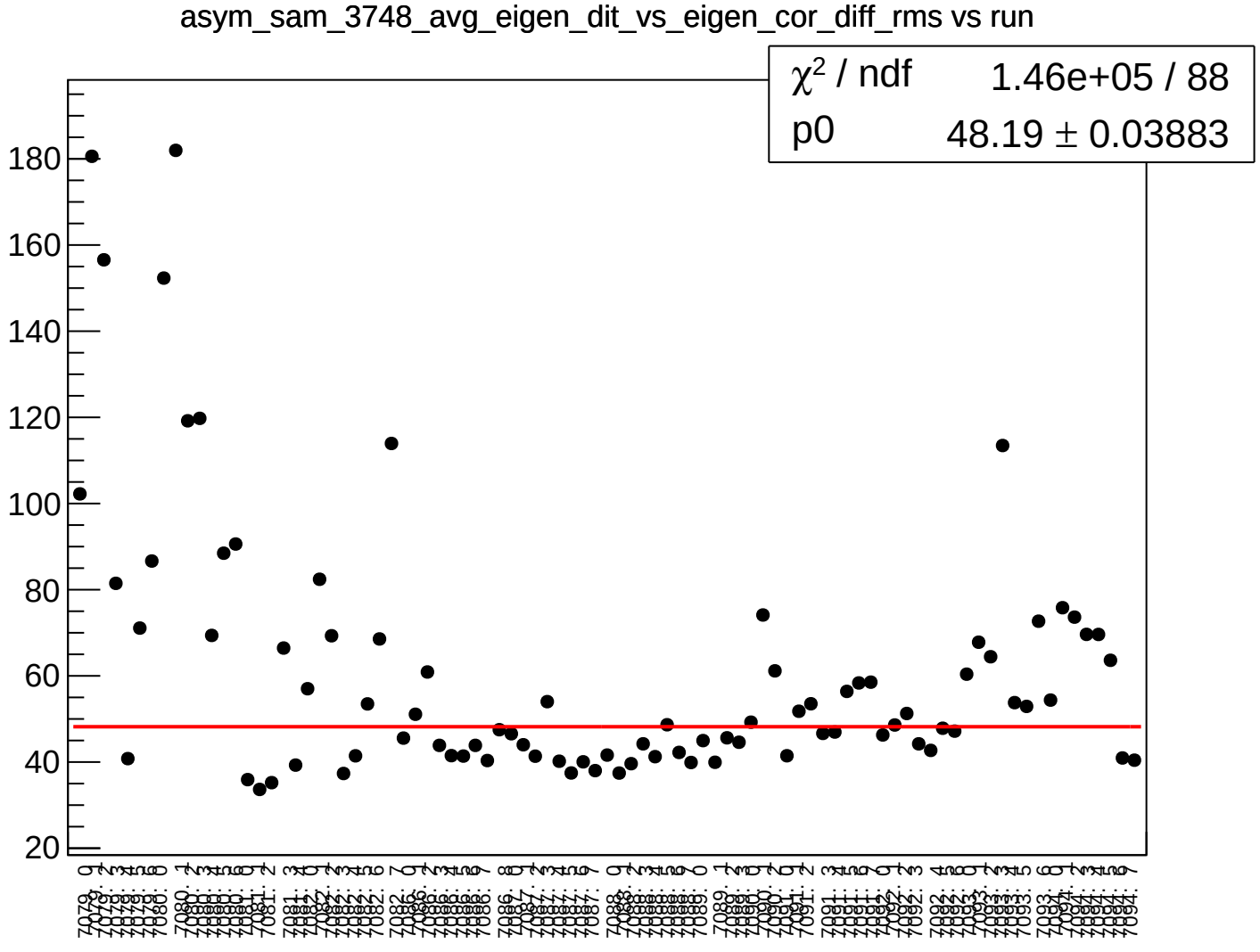

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 88
p0 −0.001951 ± 0.05492
pull
Entries 89
Mean −59.26
Std Dev 0

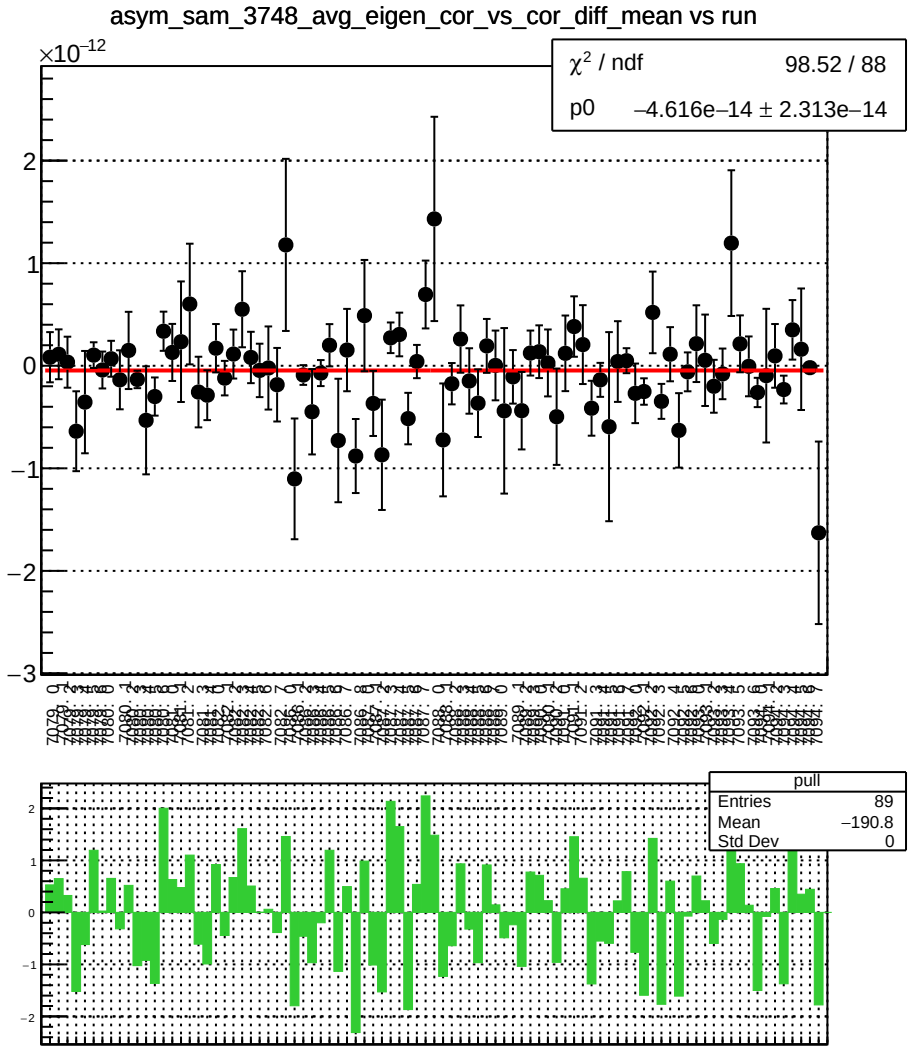

pull1D
Entries 89
Mean 0.04626
Std Dev 1.1

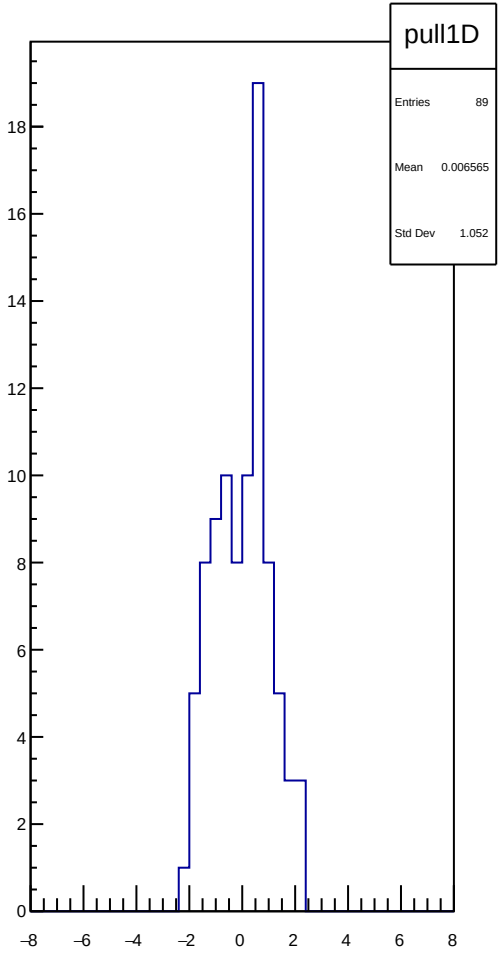

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.46e+05 / 88
p0 48.19 ± 0.03883
180
160
140
120
100
80
60
40
20

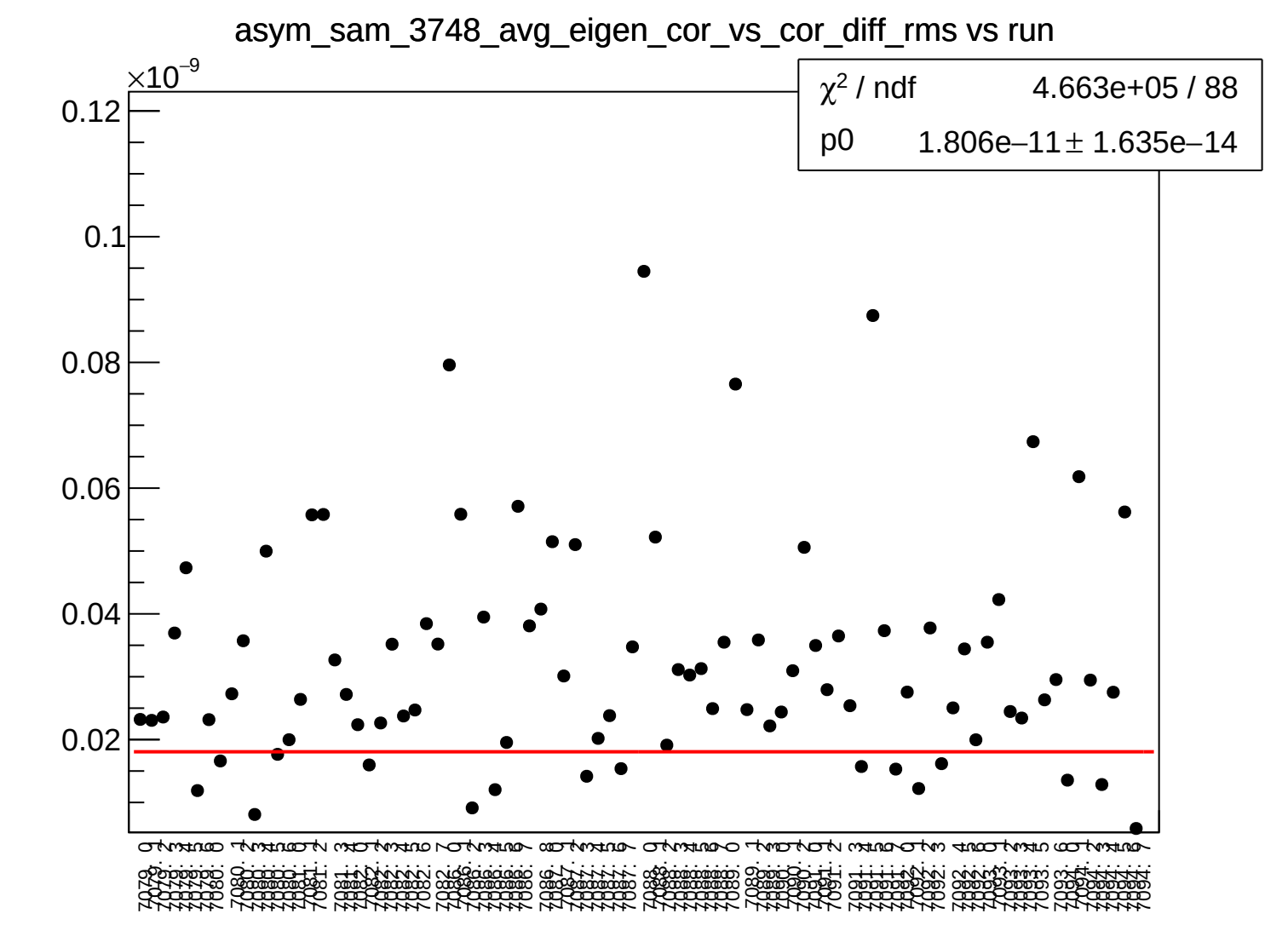

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.9 / 88
p0 −0.001951 ± 0.05492
pull
Entries 89
Mean −59.26
Std Dev 0

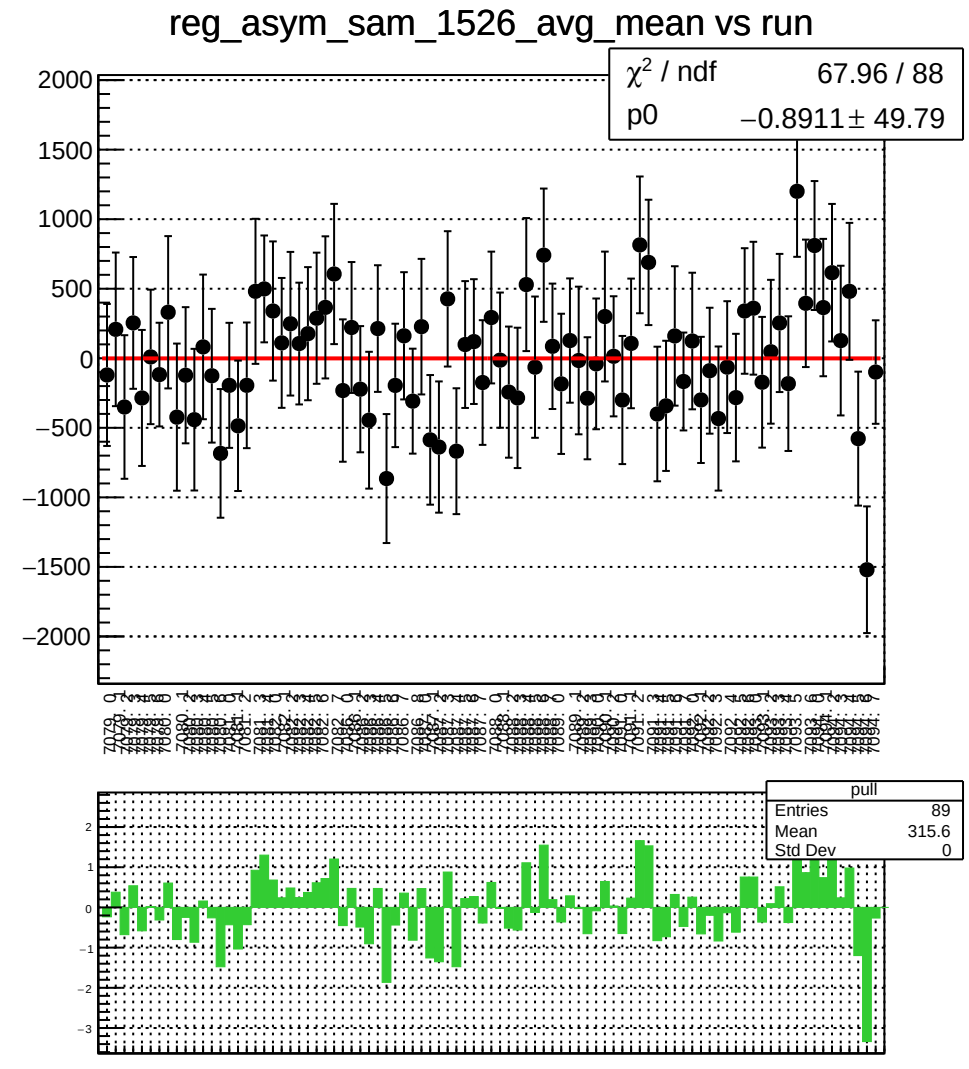

pull1D
Entries 89
Mean 0.04626
Std Dev 1.1

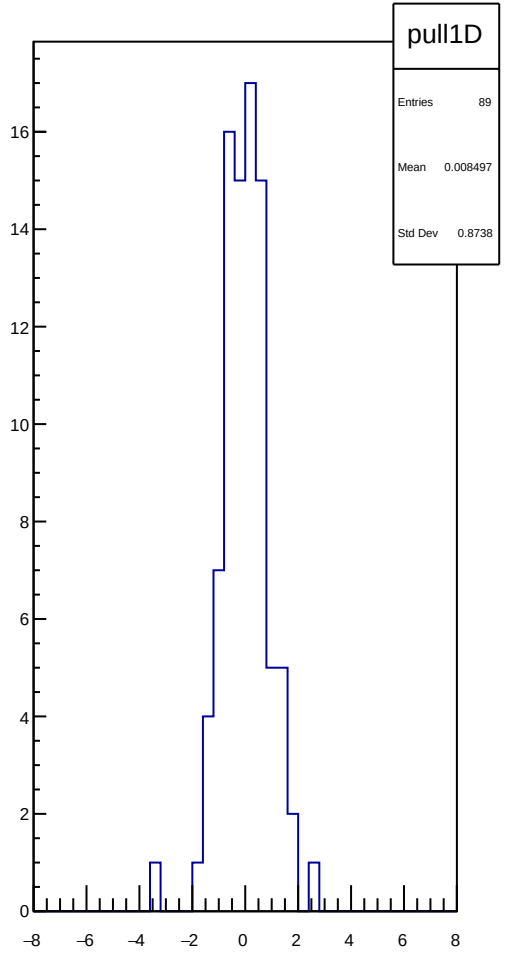

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.46e+05 / 88
p0 48.19 ± 0.03883
180
160
140
120
100
80
60
40
20

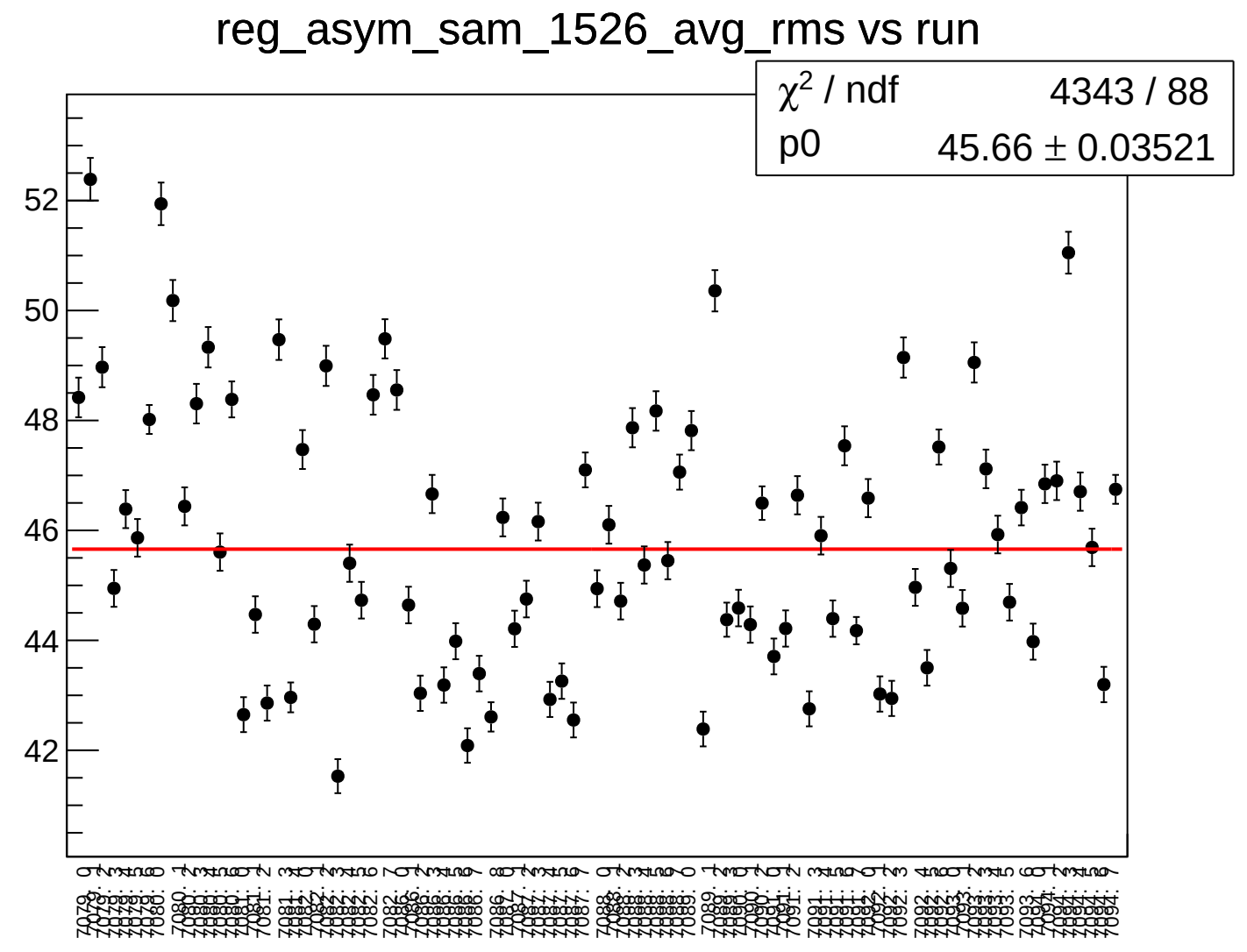

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.52 / 88
p0 −4.616e−14 ± 2.313e−14
pull
Entries 89
Mean −190.8
Std Dev 0

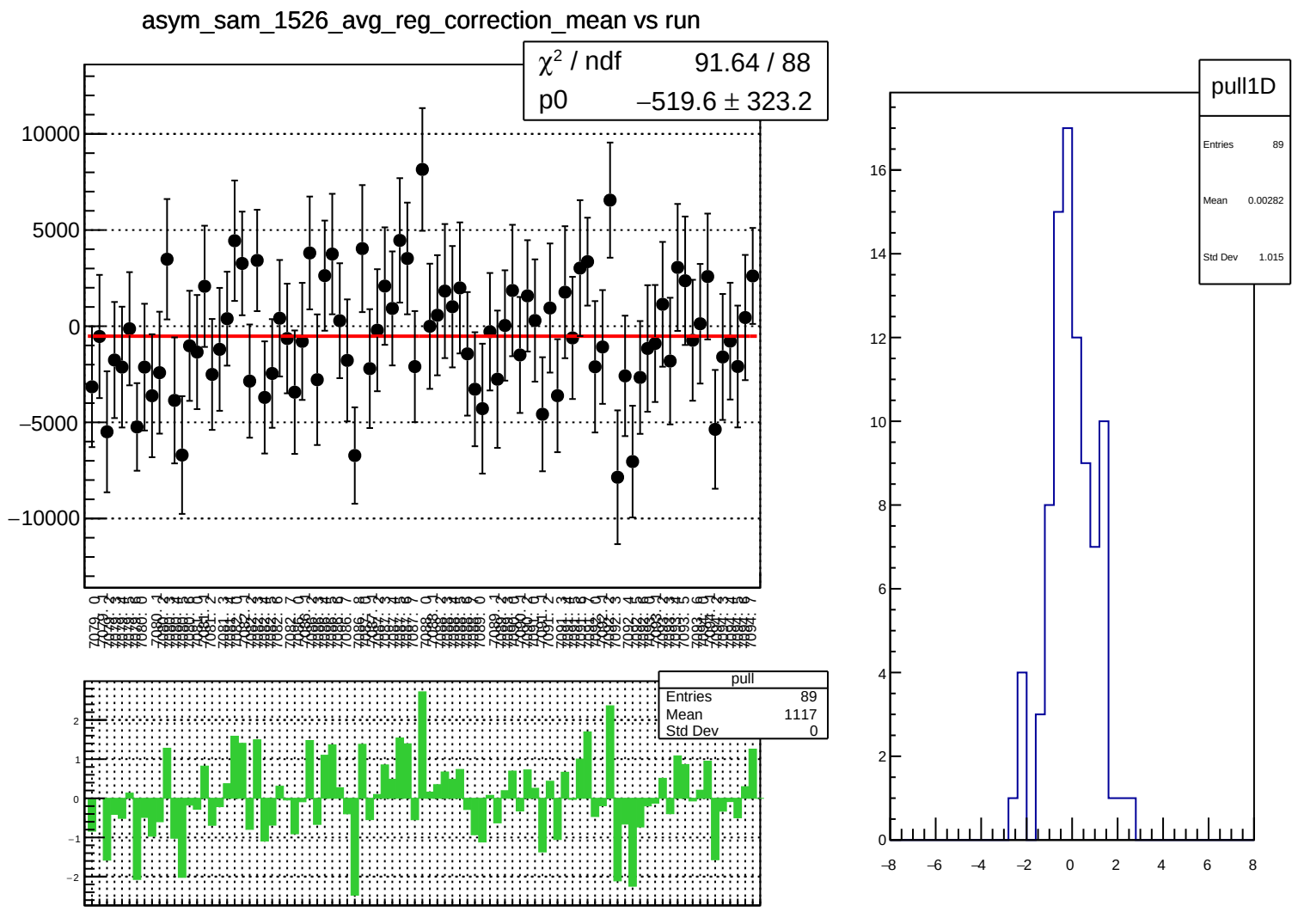

pull1D
Entries 89
Mean 0.006565
Std Dev 1.052

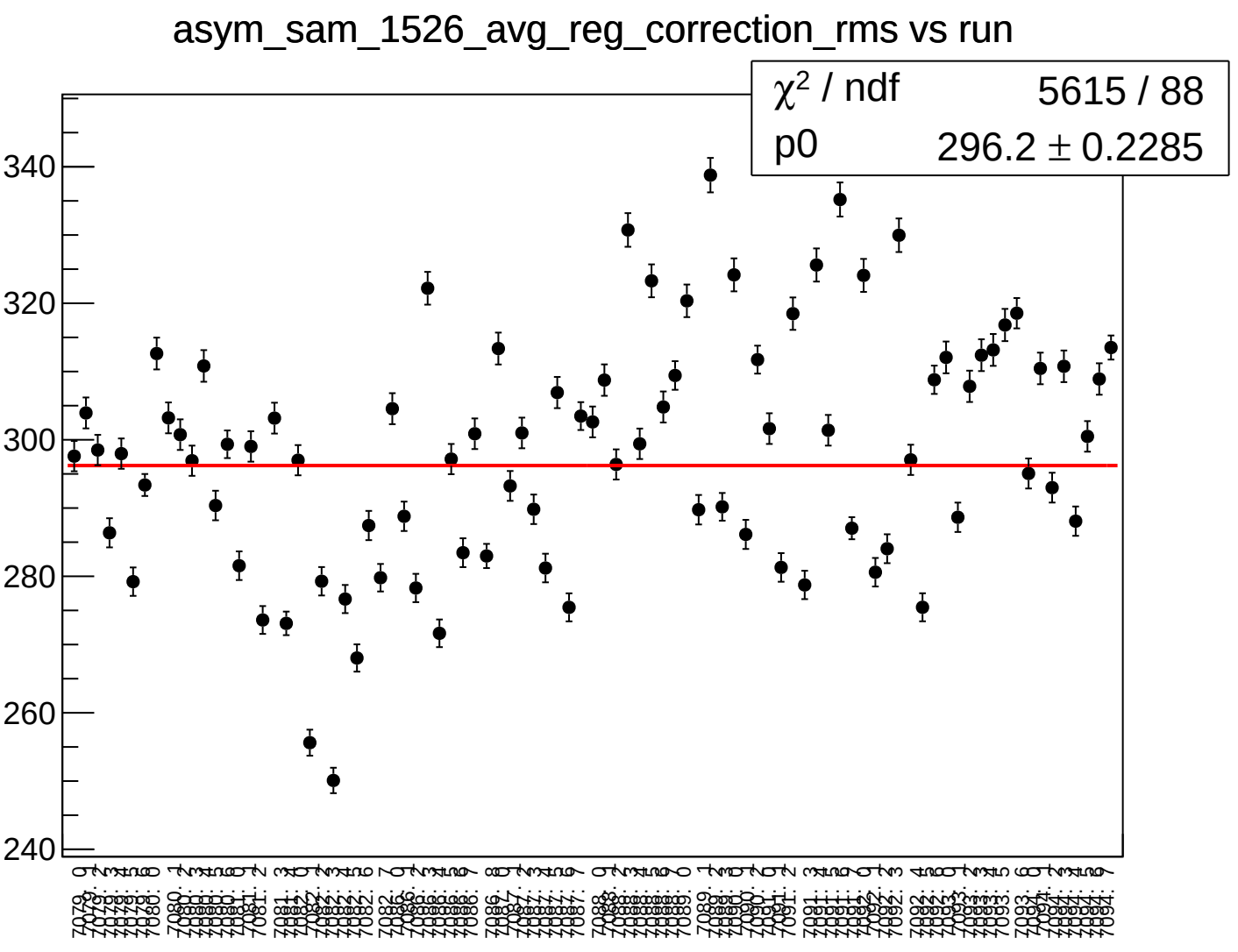

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.663e+05 / 88
p0 1.806e−11 ± 1.635e−14
0.12
0.1
0.08
0.06
0.04
0.02

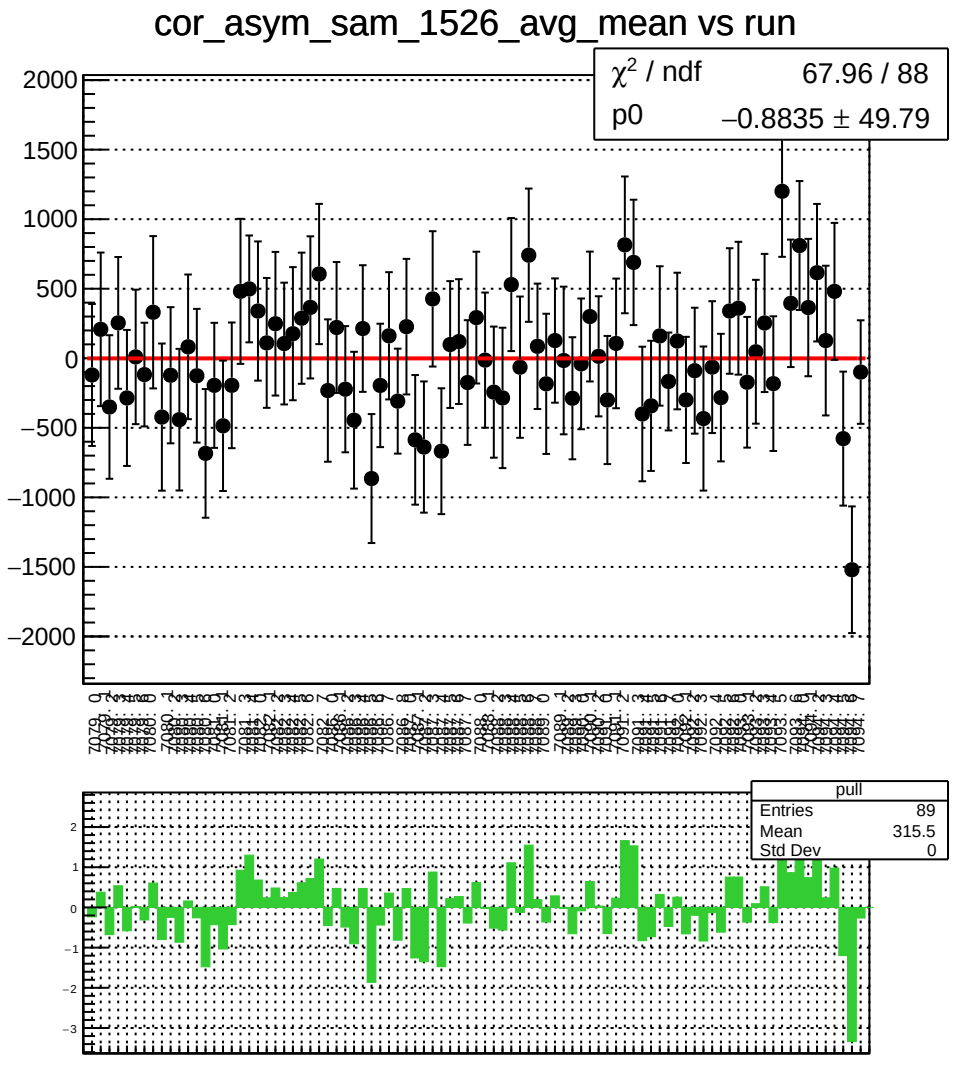

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 67.96 / 88
p0 −0.8911 ± 49.79
pull
Entries 89
Mean 315.6
Std Dev 0

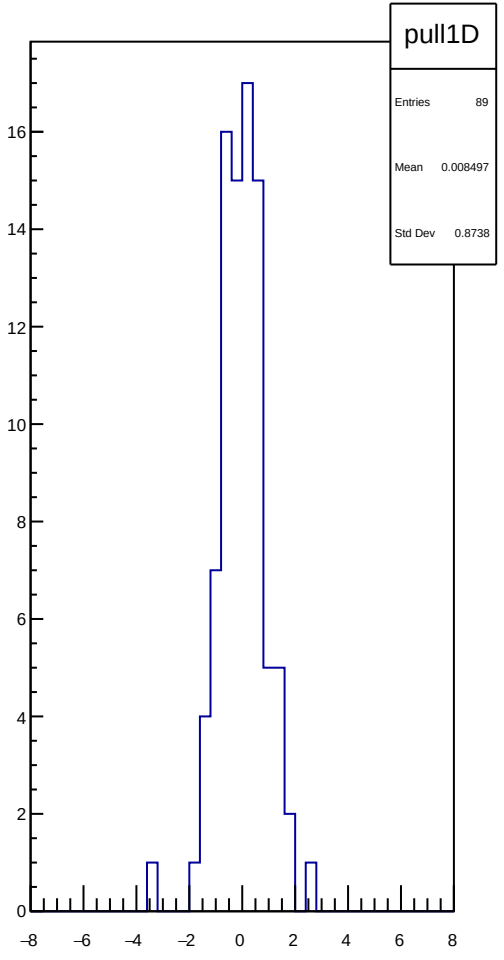

pull1D
Entries 89
Mean 0.008497
Std Dev 0.8738

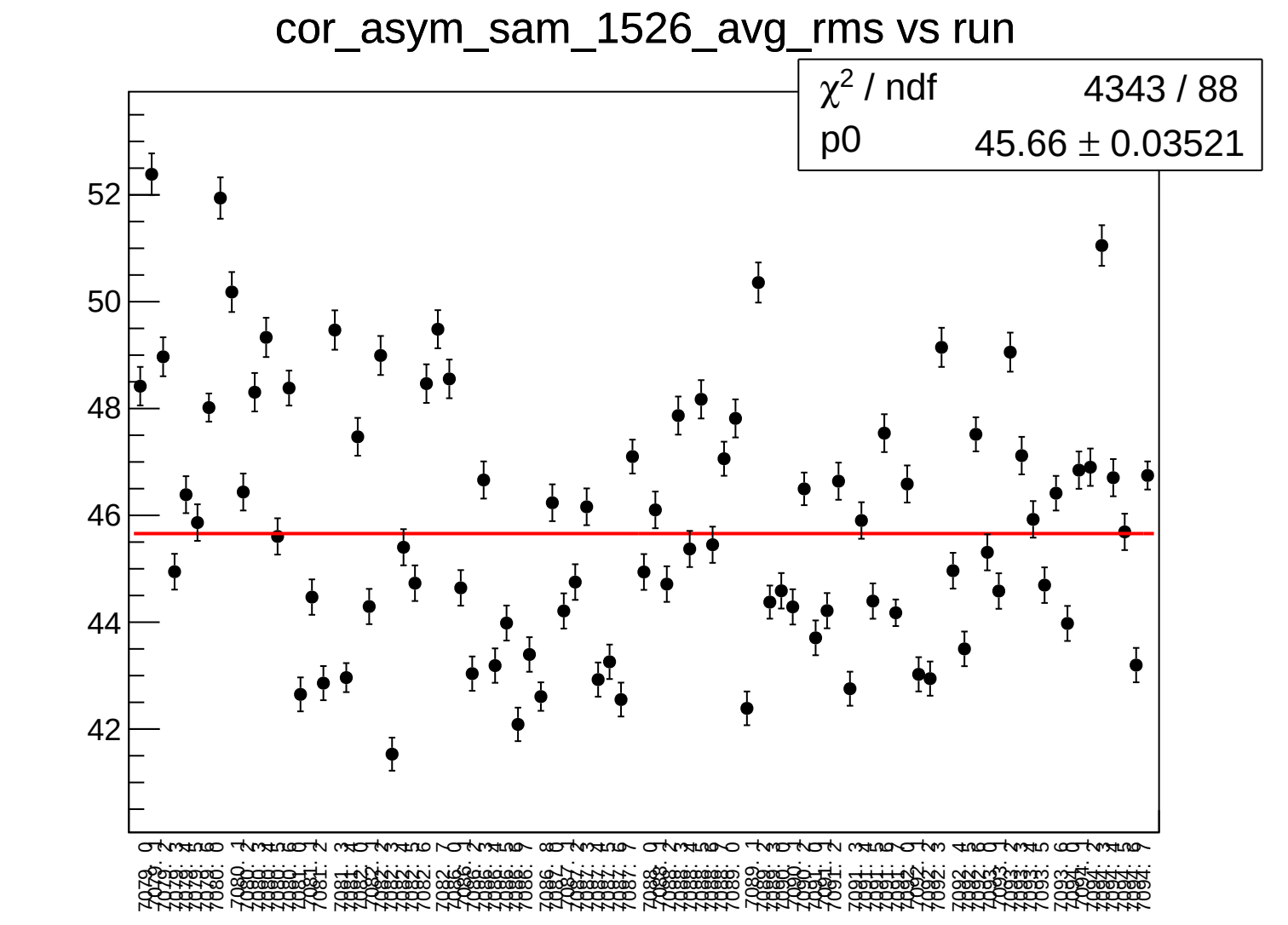

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 4343 / 88
p0 45.66 ± 0.03521
52
50
48
46
44
42

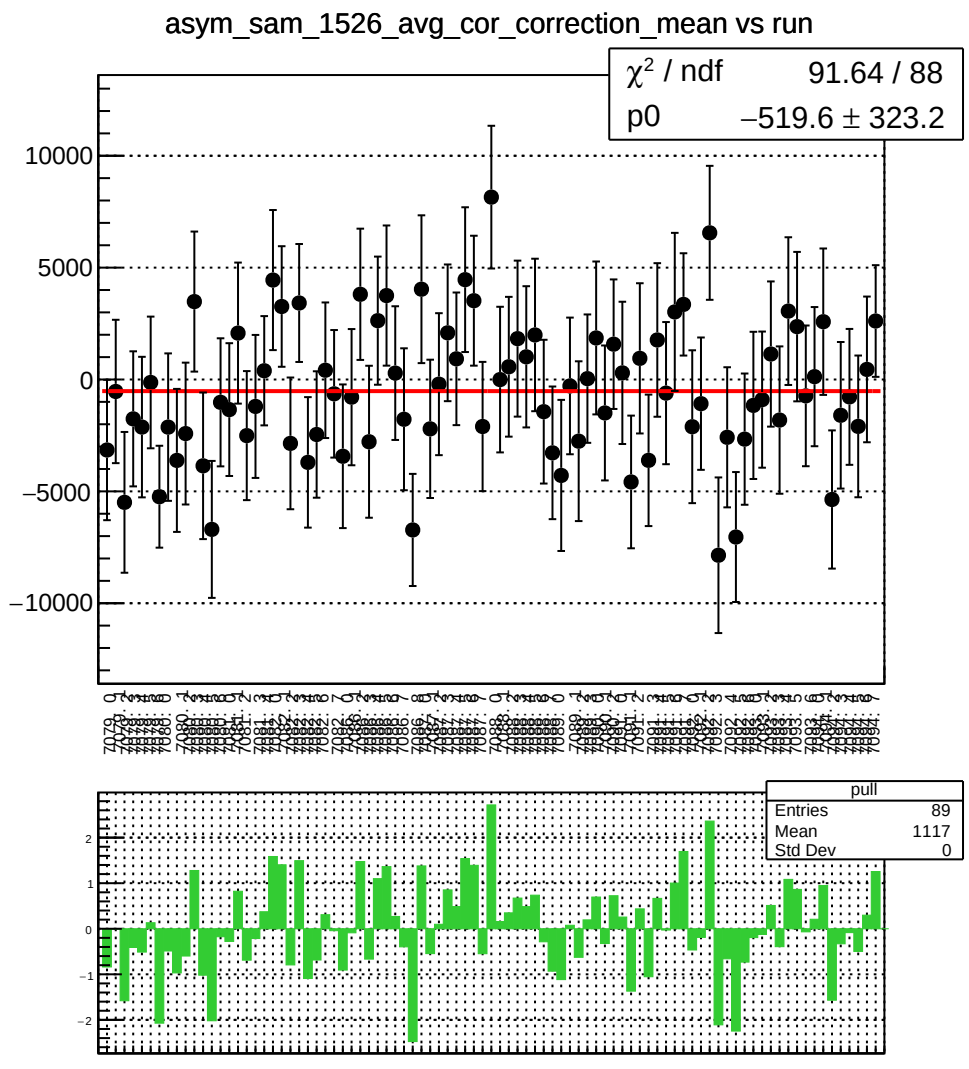

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 91.64 / 88
p0 −519.6 ± 323.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1117
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.00282
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

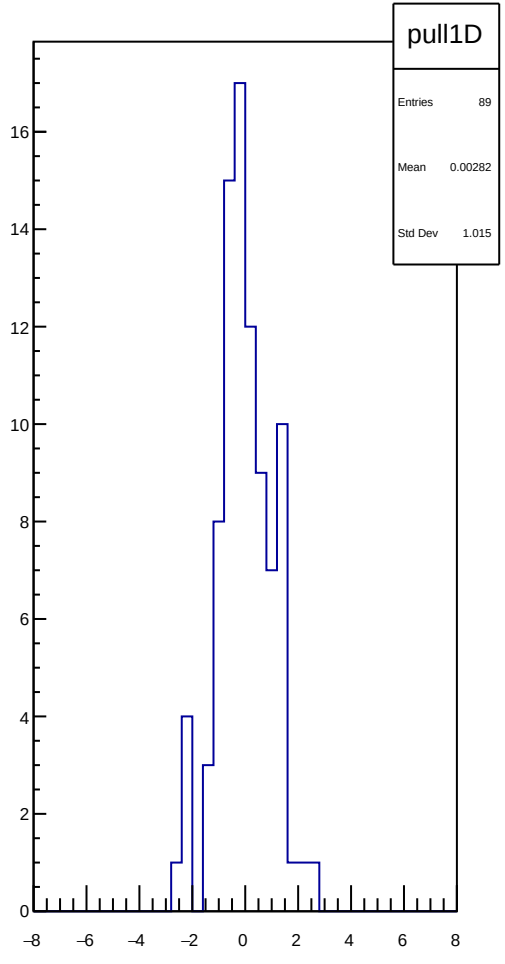

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 5615 / 88
p0 296.2 ± 0.2285
340
320
300
280
260
240

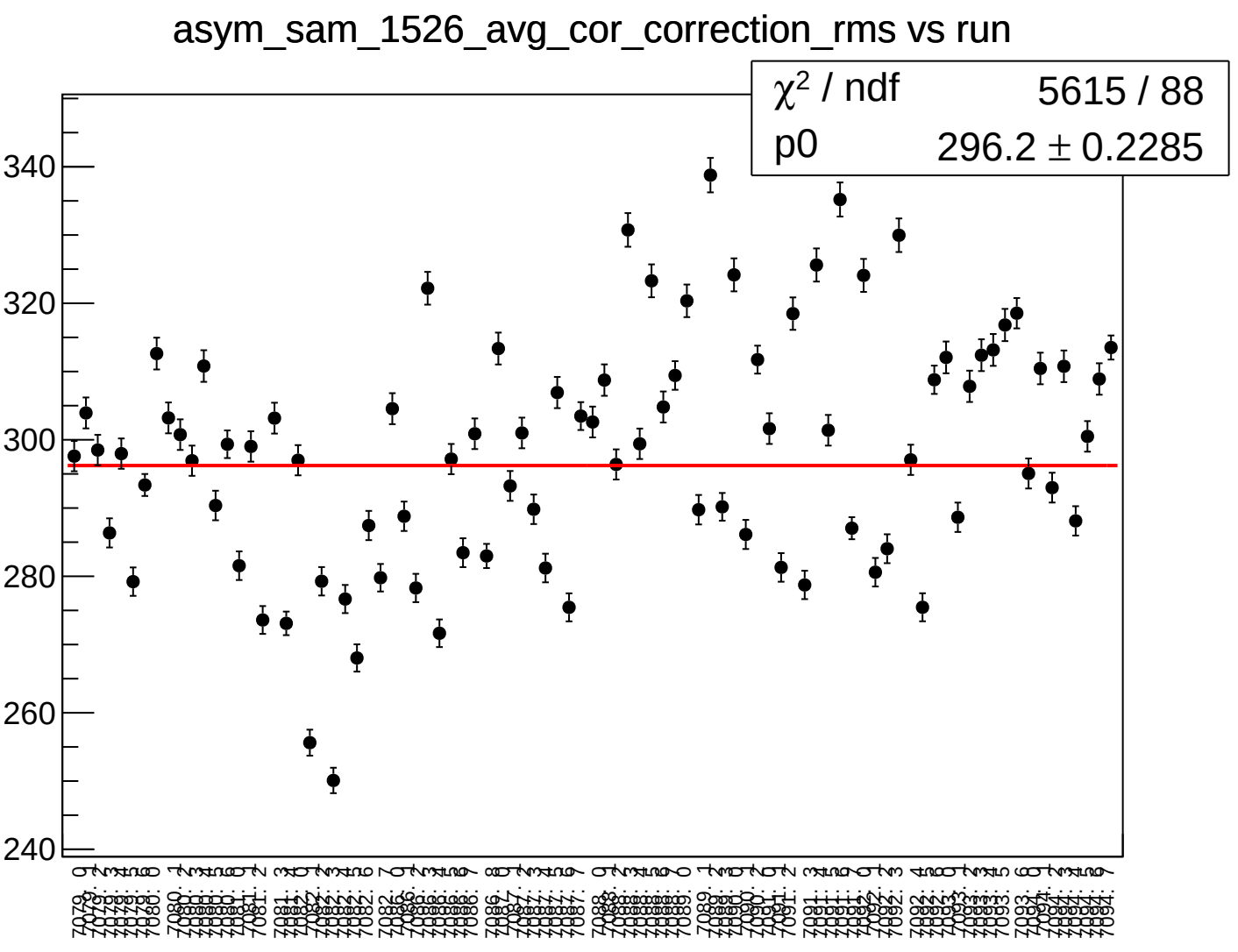

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 67.96 / 88
p0 −0.8835 ± 49.79
pull
Entries 89
Mean 315.5
Std Dev 0

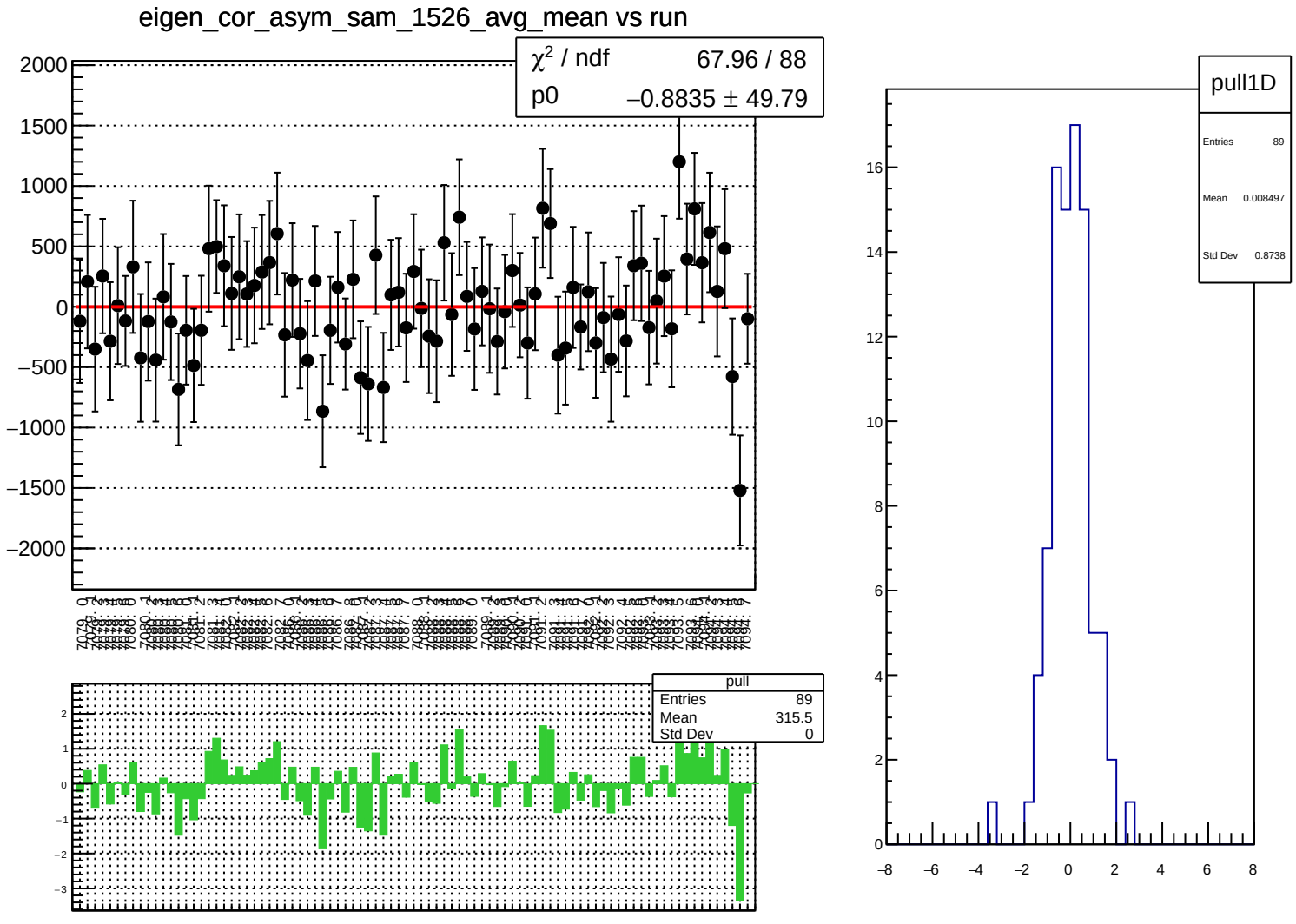

pull1D
Entries 89
Mean 0.008497
Std Dev 0.8738

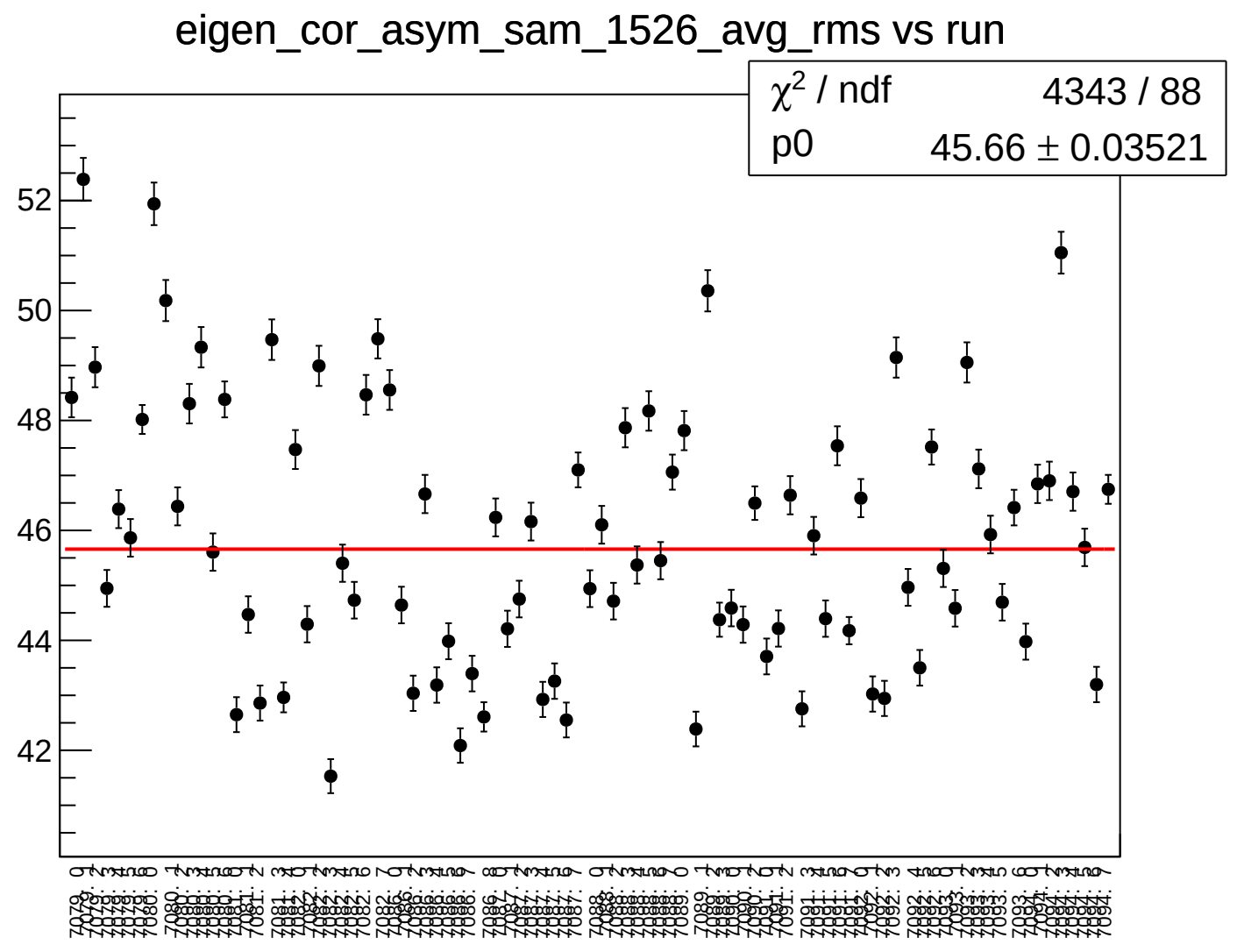

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4343 / 88
p0 45.66 ± 0.03521
52
50
48
46
44
42

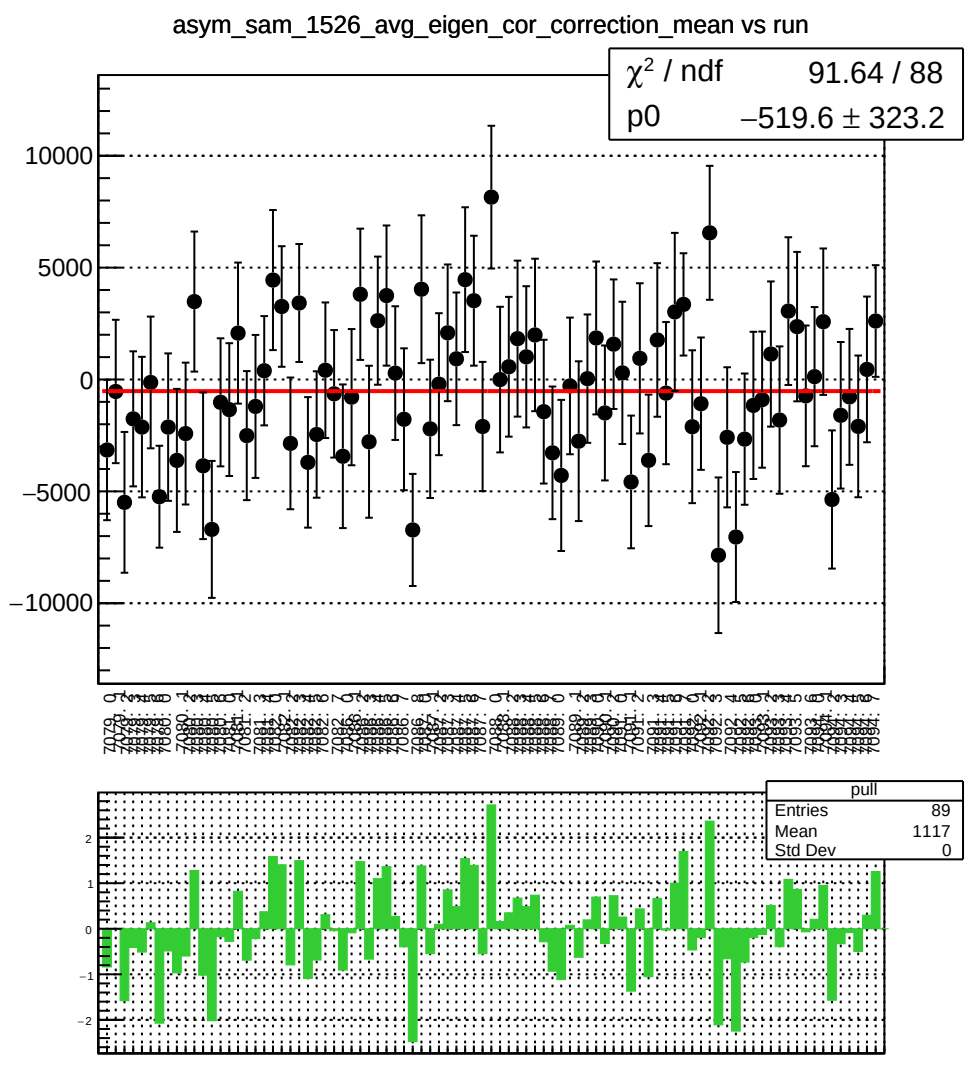

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 91.64 / 88
p0 −519.6 ± 323.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1117
Std Dev 0
2
1
0
−1
−2

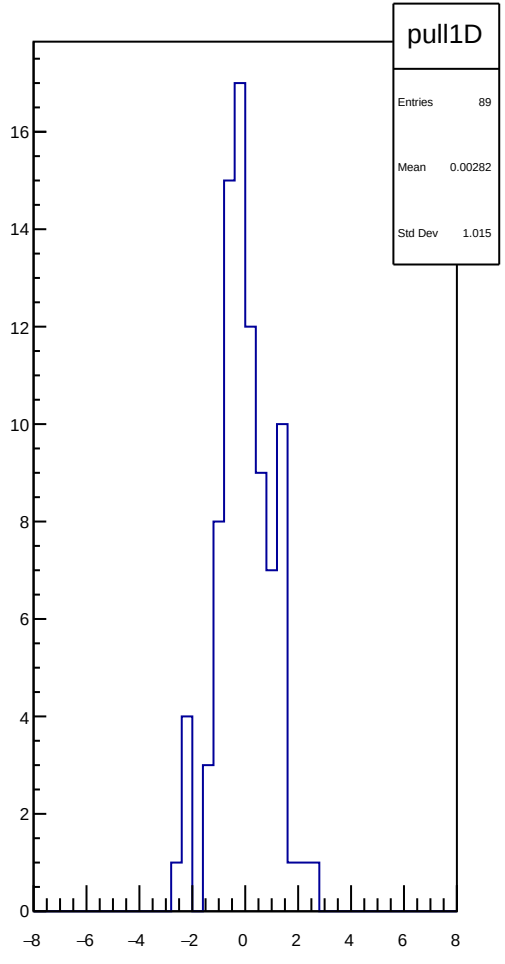

pull1D
Entries 89
Mean 0.00282
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

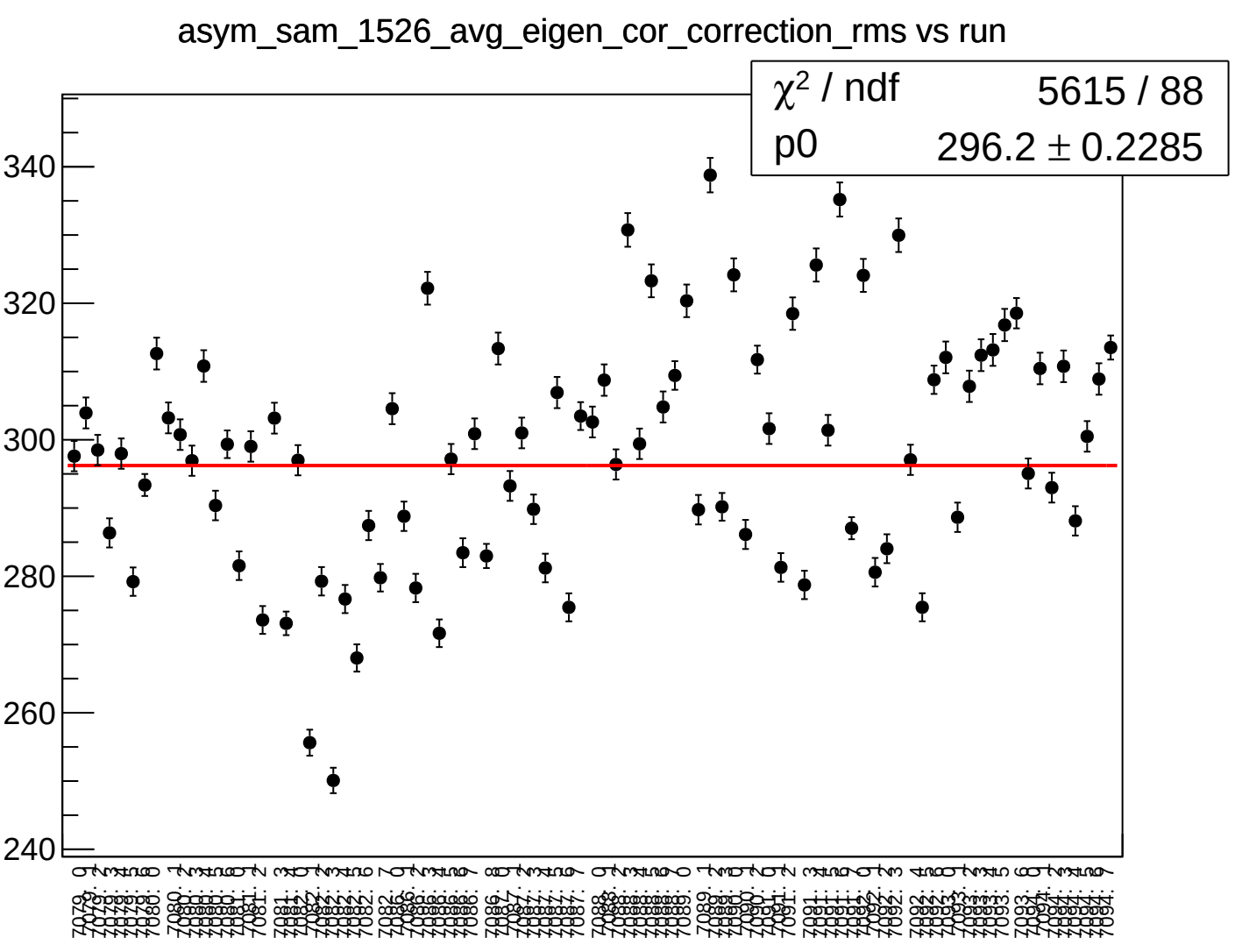

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 5615 / 88
p0 296.2 ± 0.2285
340
320
300
280
260
240

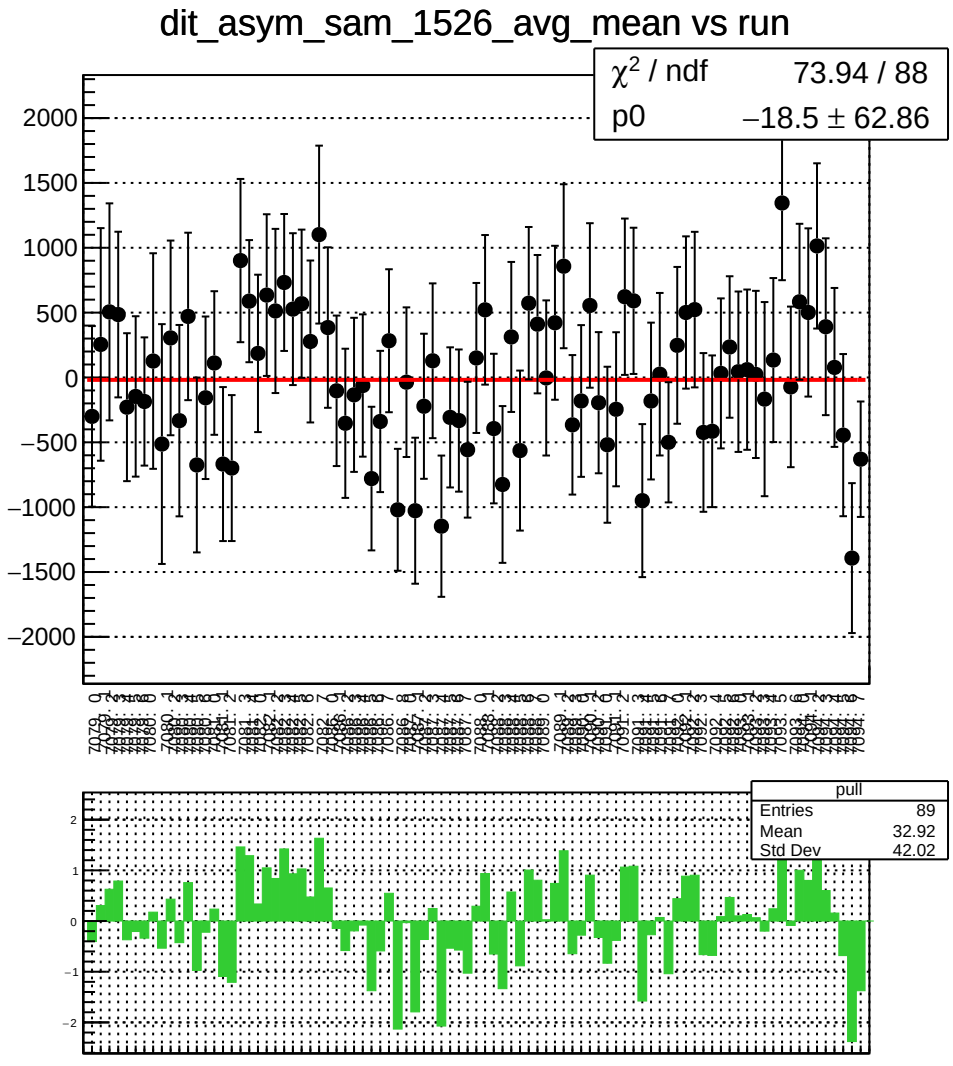

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 67.96 / 88
p0 −0.8835 ± 49.79
pull
Entries 89
Mean 315.5
Std Dev 0
pull1D
Entries 89
Mean 0.008497
Std Dev 0.8738

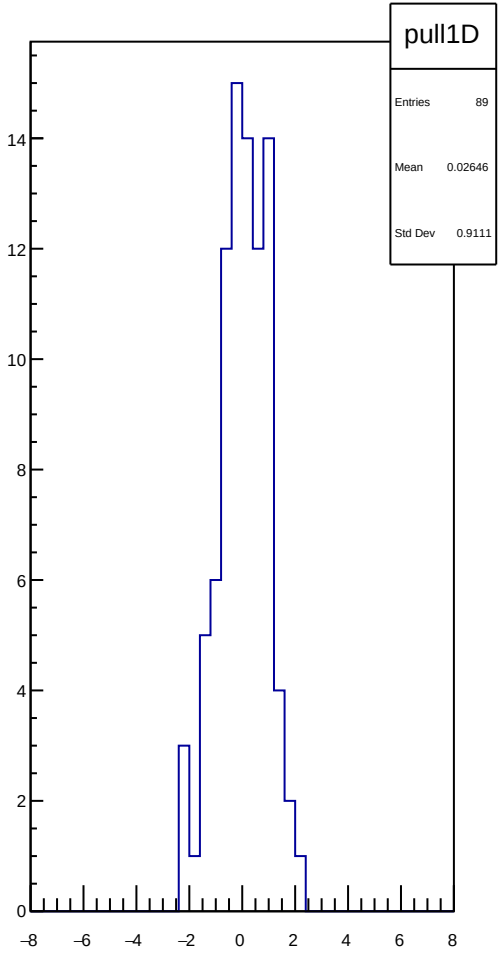

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4343 / 88
p0 45.66 ± 0.03521
52
50
48
46
44
42

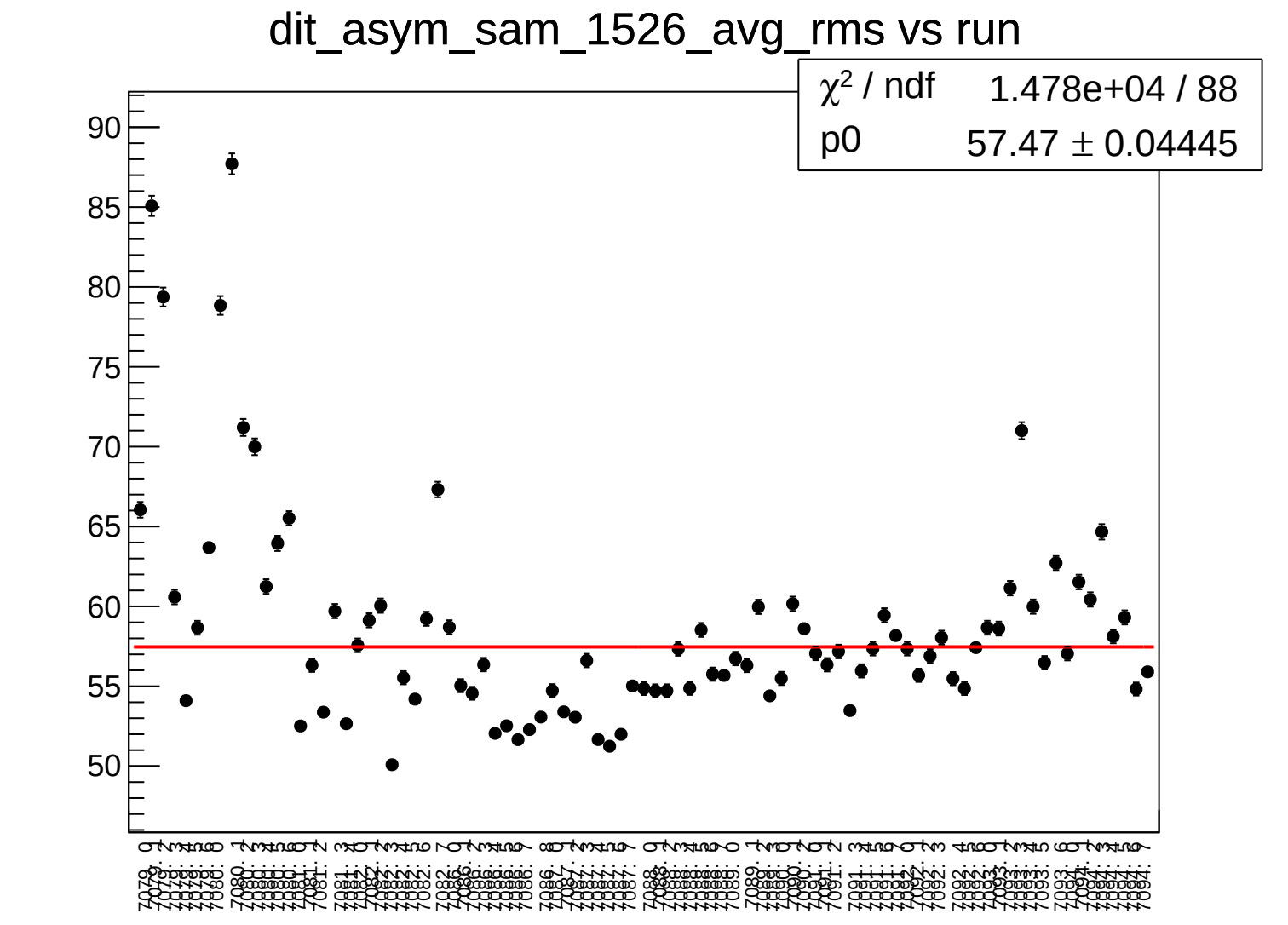

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.64 / 88
p0 −519.6 ± 323.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1117
Std Dev 0
2
1
0
−1
−2

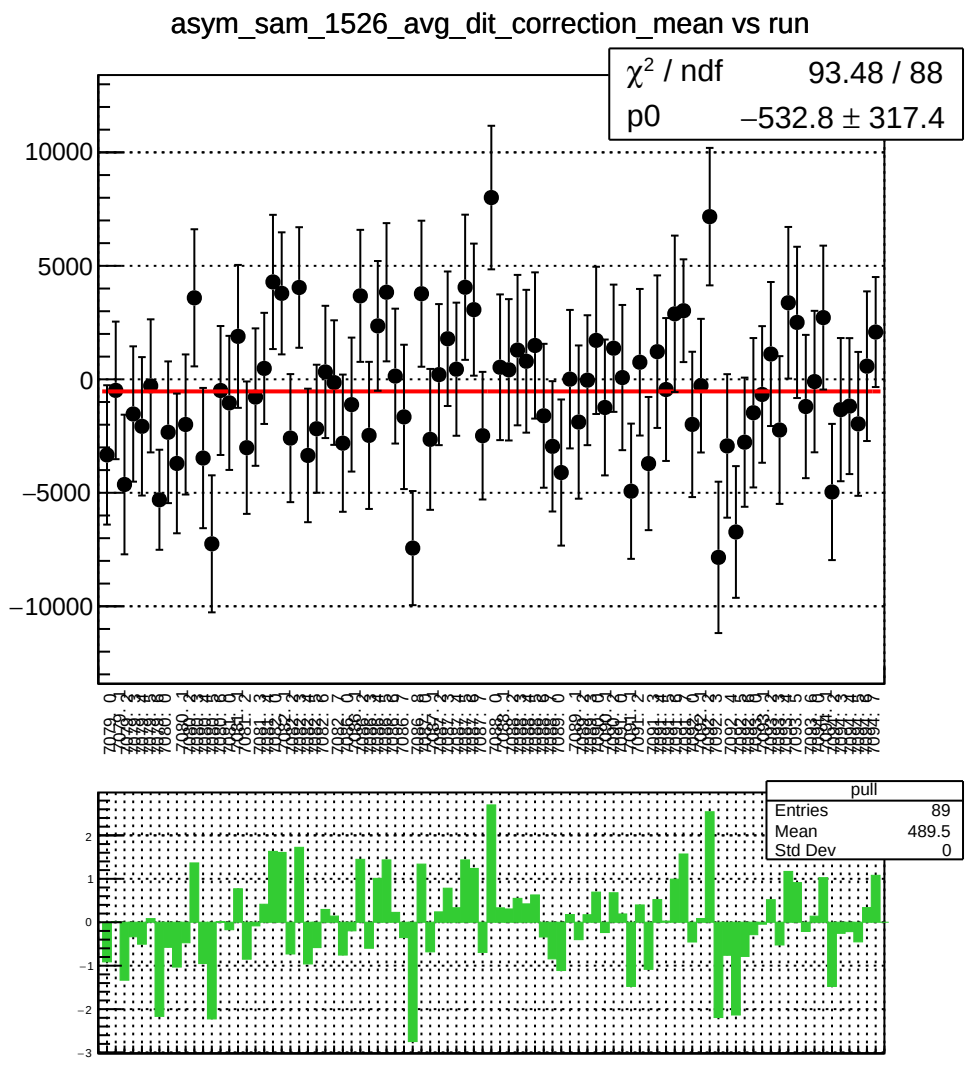

pull1D
Entries 89
Mean 0.00282
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

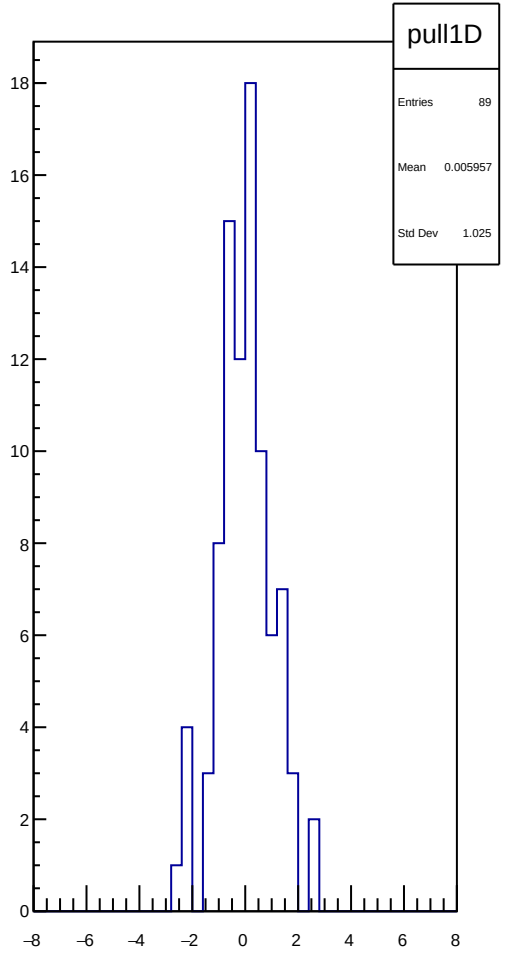

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 5615 / 88
p0 296.2 ± 0.2285
340
320
300
280
260
240

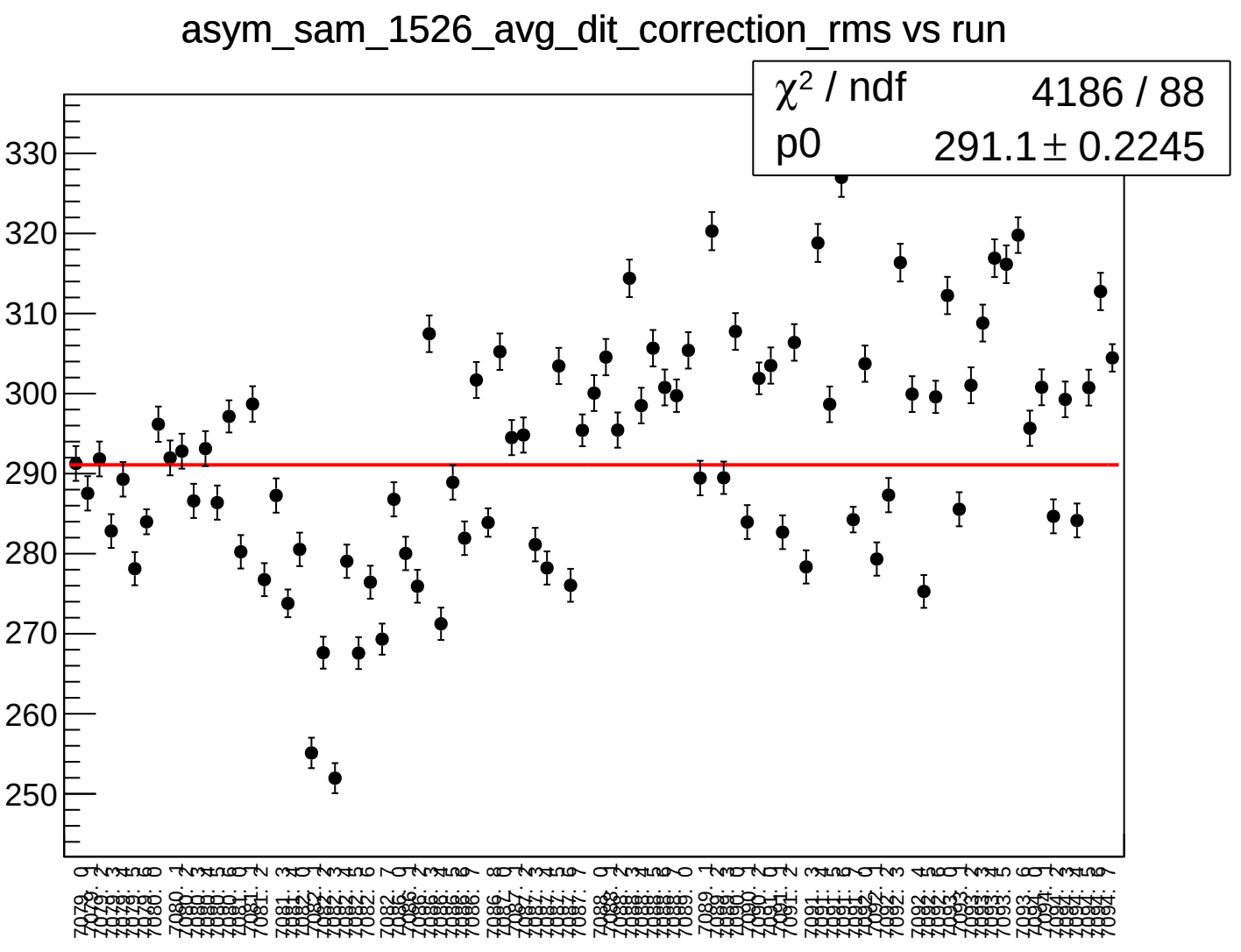

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 73.94 / 88
p0 −18.5 ± 62.86
pull
Entries 89
Mean 32.92
Std Dev 42.02

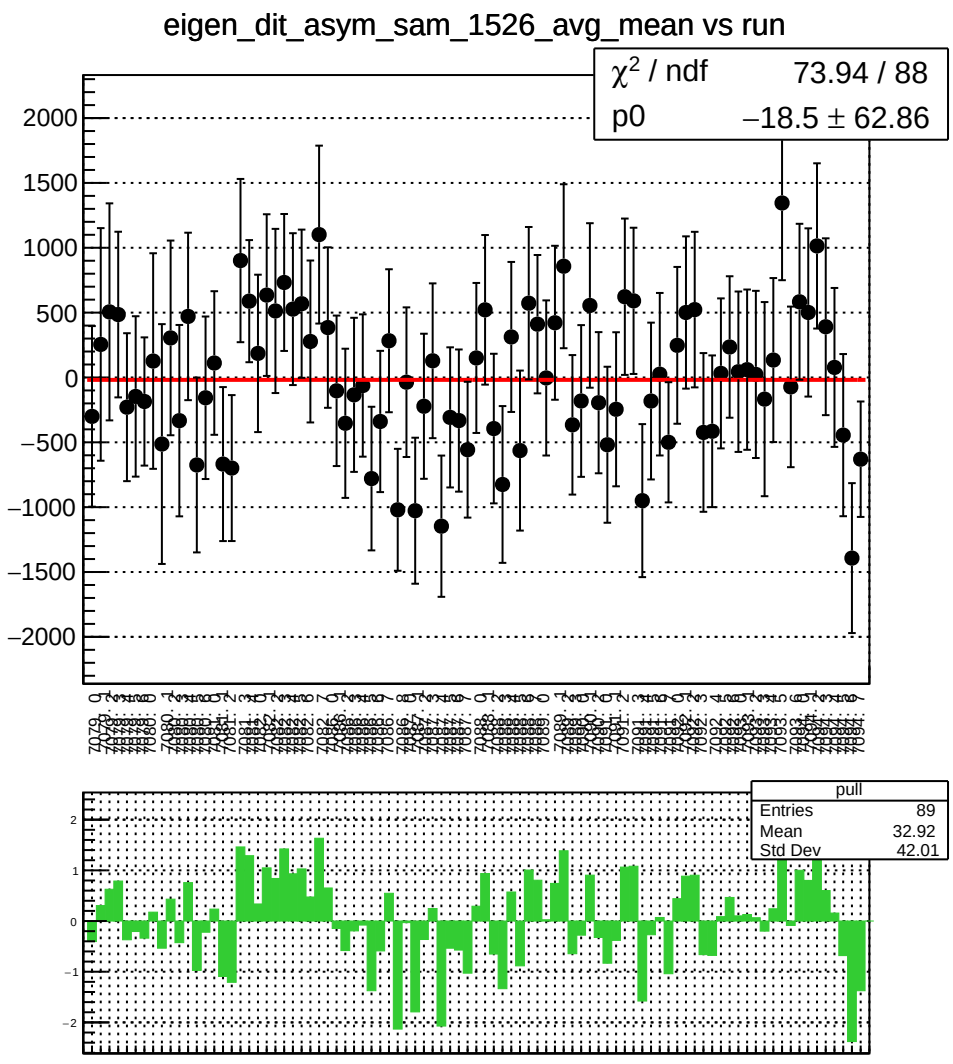

pull1D
Entries 89
Mean 0.02646
Std Dev 0.9111

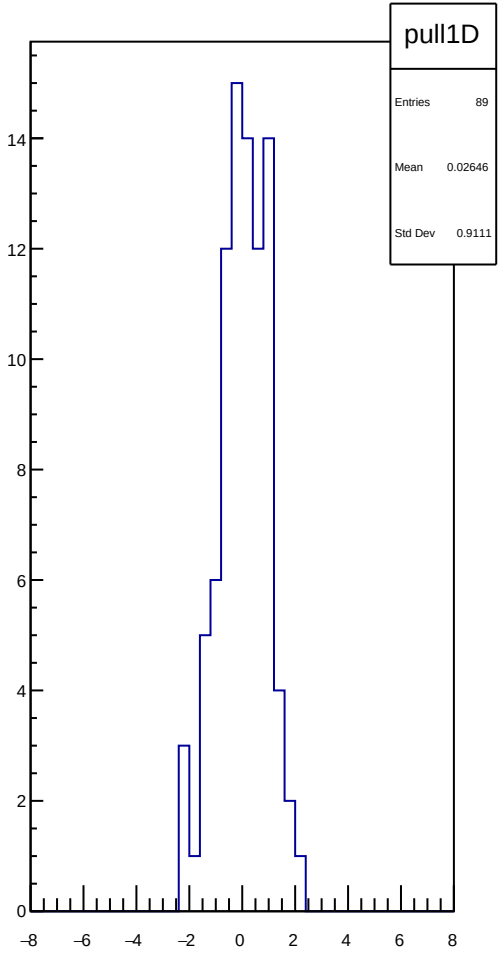

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.478e+04 / 88
p0 57.47 ± 0.04445
90
85
80
75
70
65
60
55
50

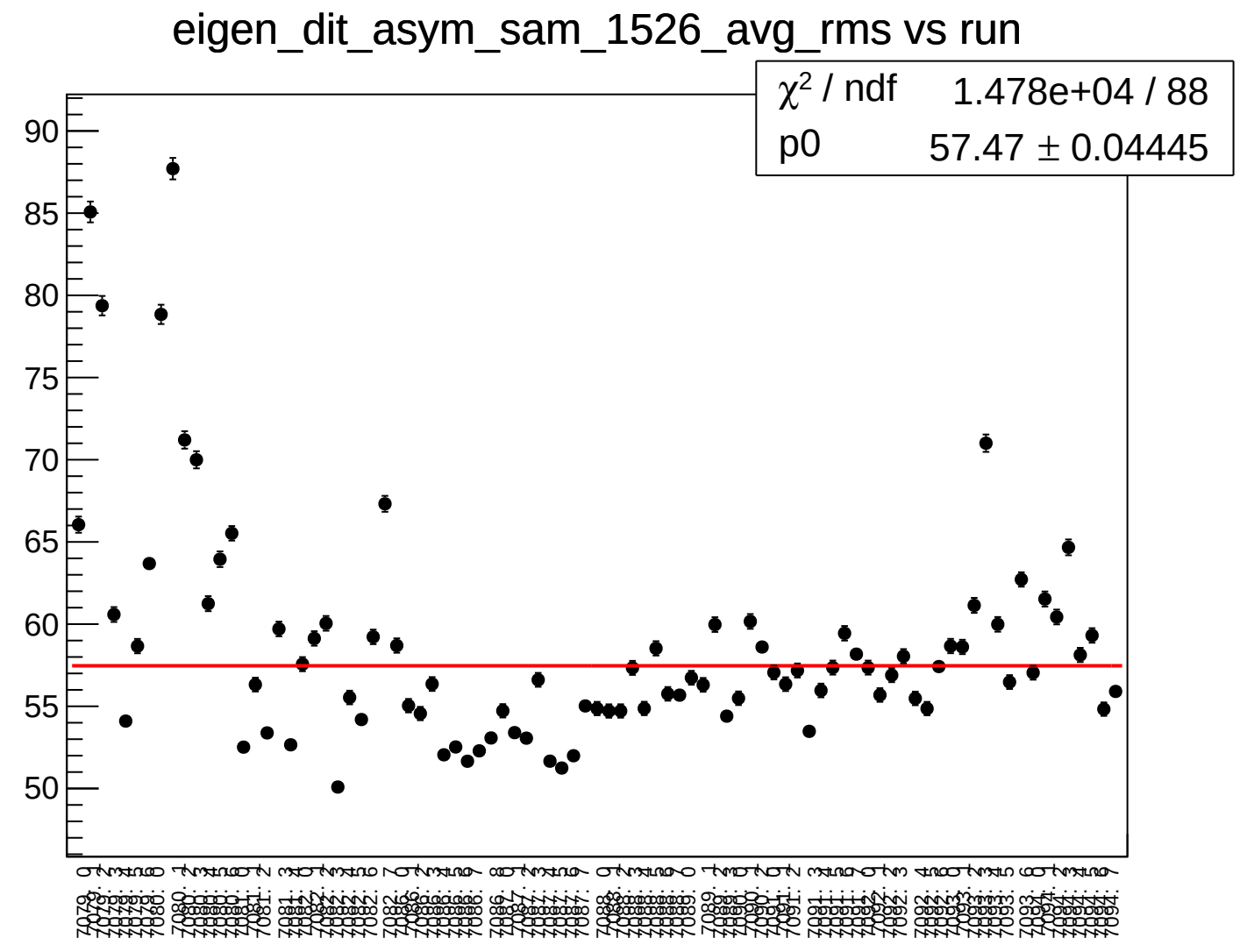

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 93.48 / 88
p0 −532.8 ± 317.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 489.5
Std Dev 0
2
1
0
−1
−2
−3

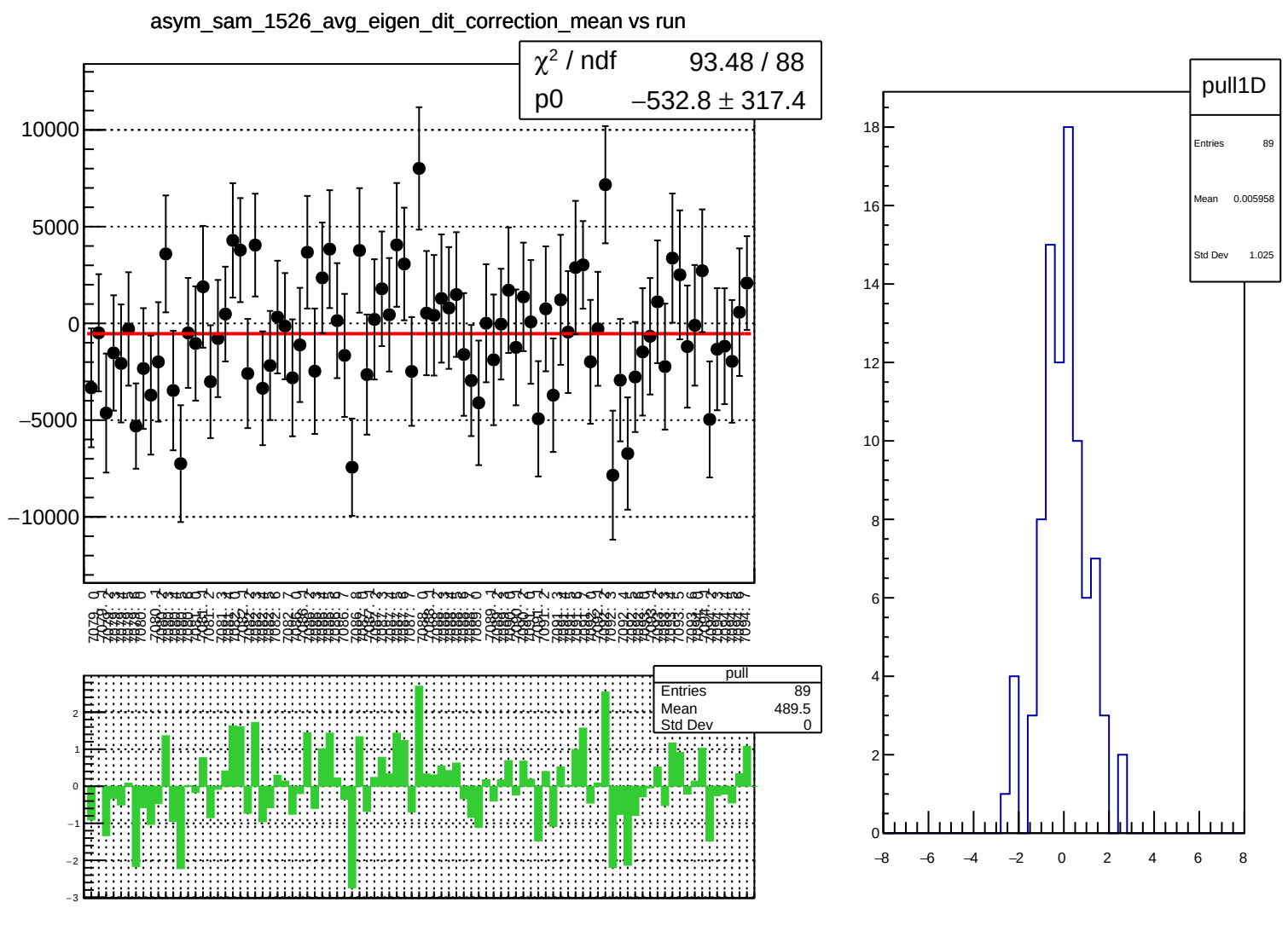

pull1D
Entries 89
Mean 0.005957
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

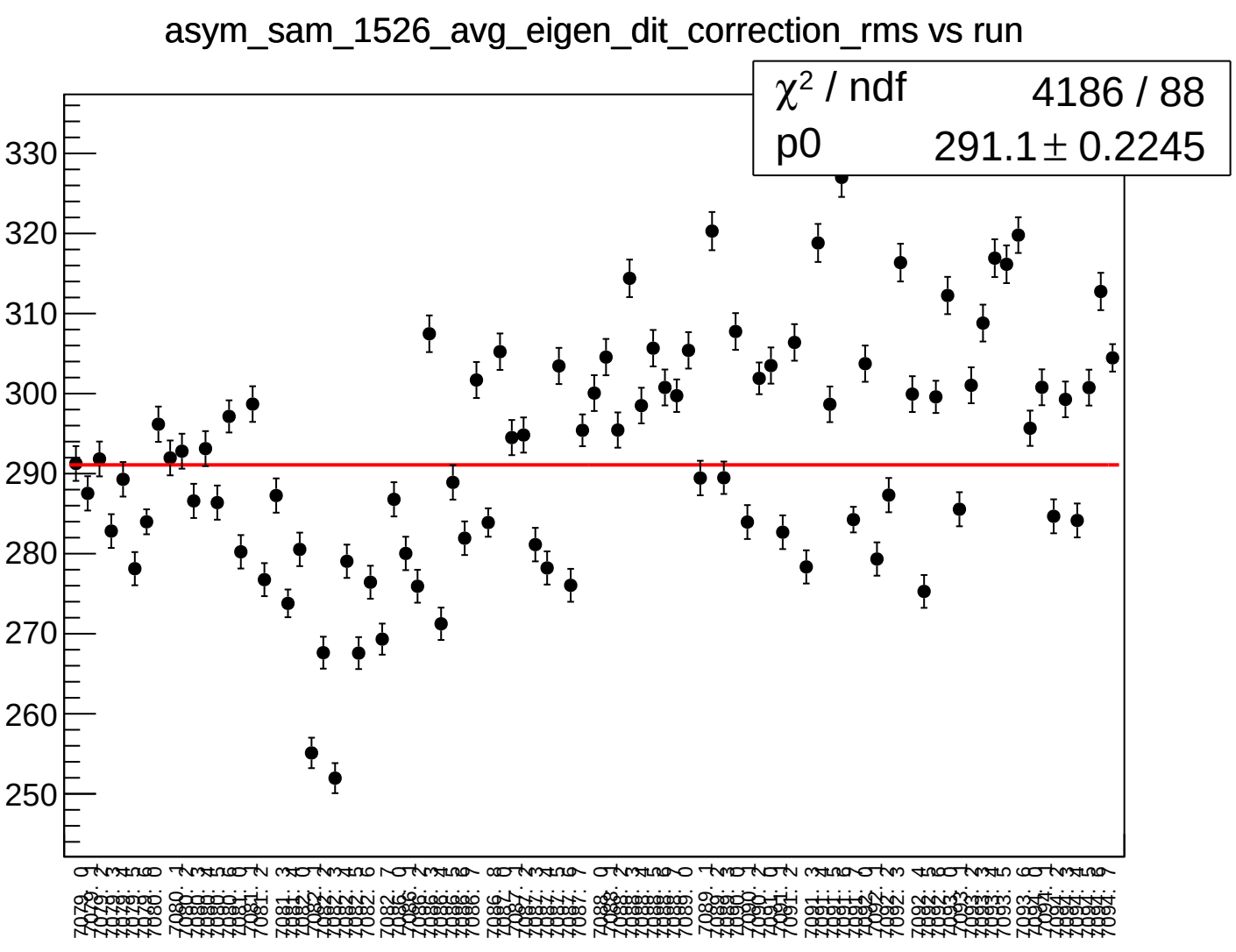

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 4186 / 88
p0 291.1 ± 0.2245
330
320
310
300
290
280
270
260
250

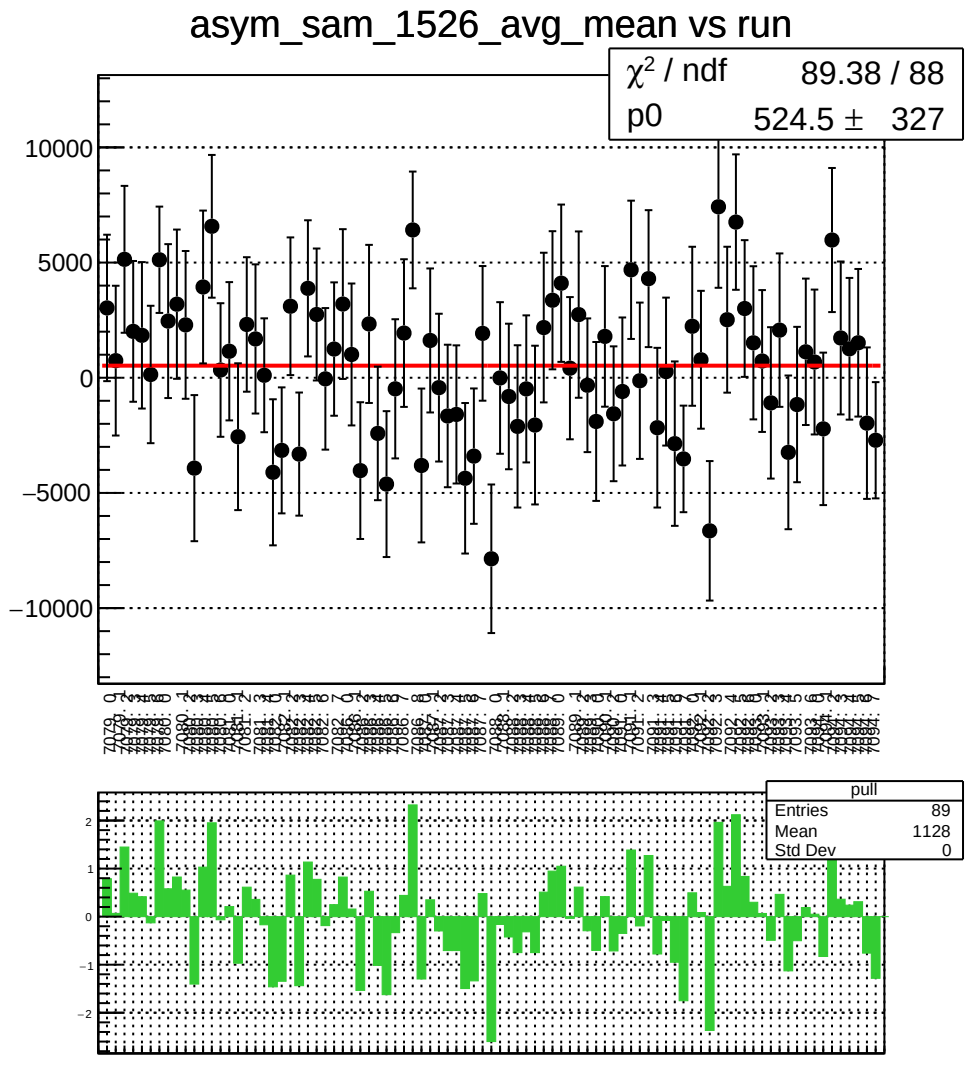

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 73.94 / 88
p0 −18.5 ± 62.86
pull
Entries 89
Mean 32.92
Std Dev 42.01

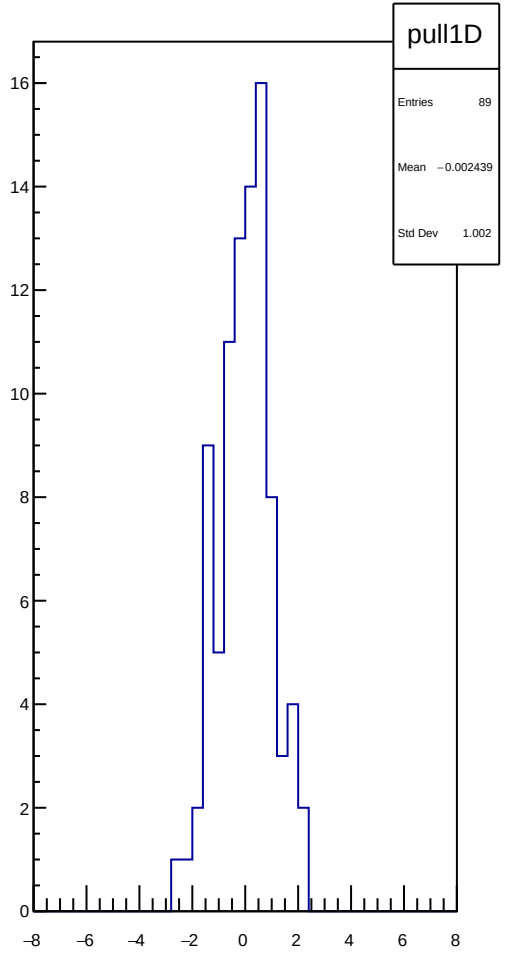

pull1D
Entries 89
Mean 0.02646
Std Dev 0.9111

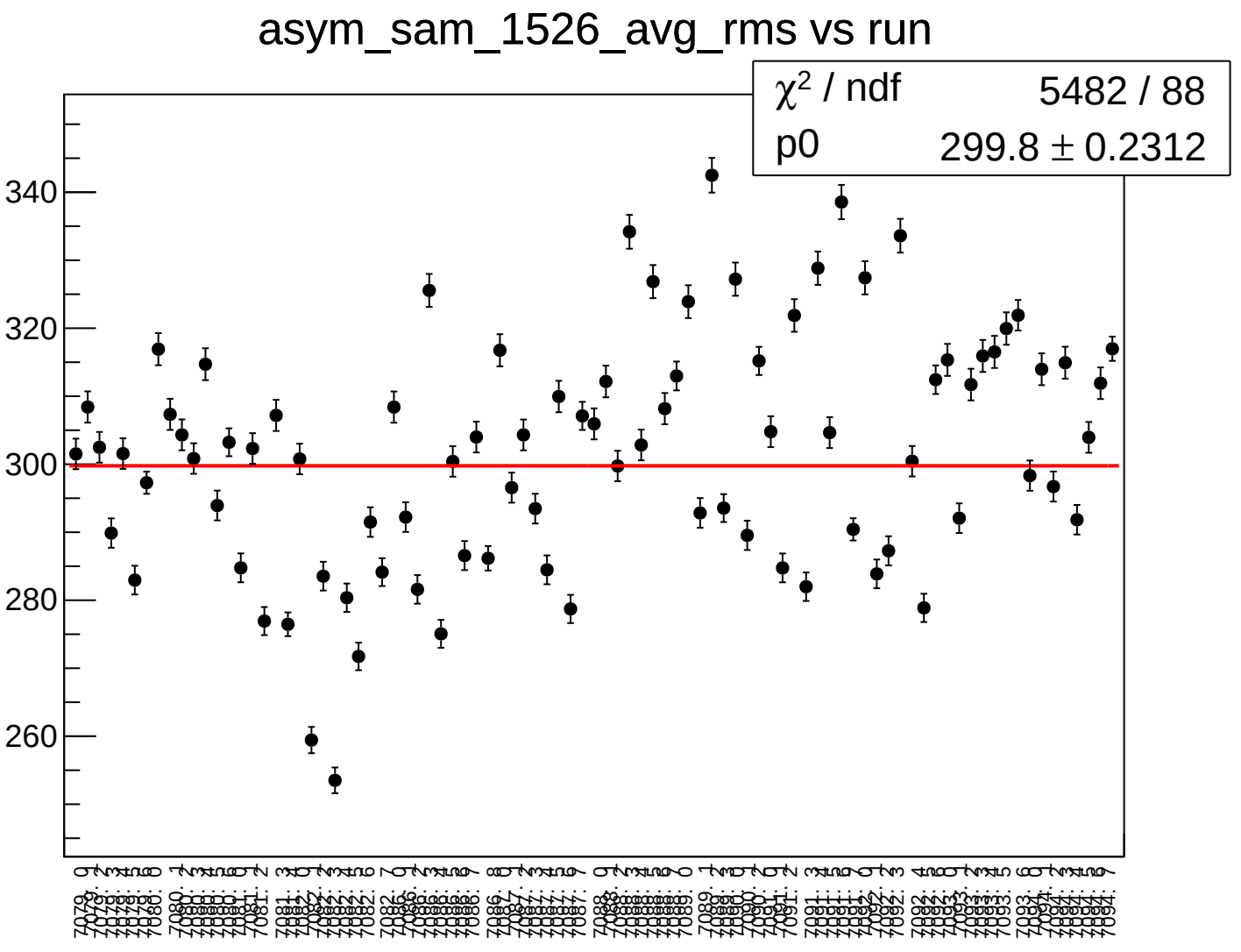

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.478e+04 / 88
p0 57.47 ± 0.04445
90
85
80
75
70
65
60
55
50

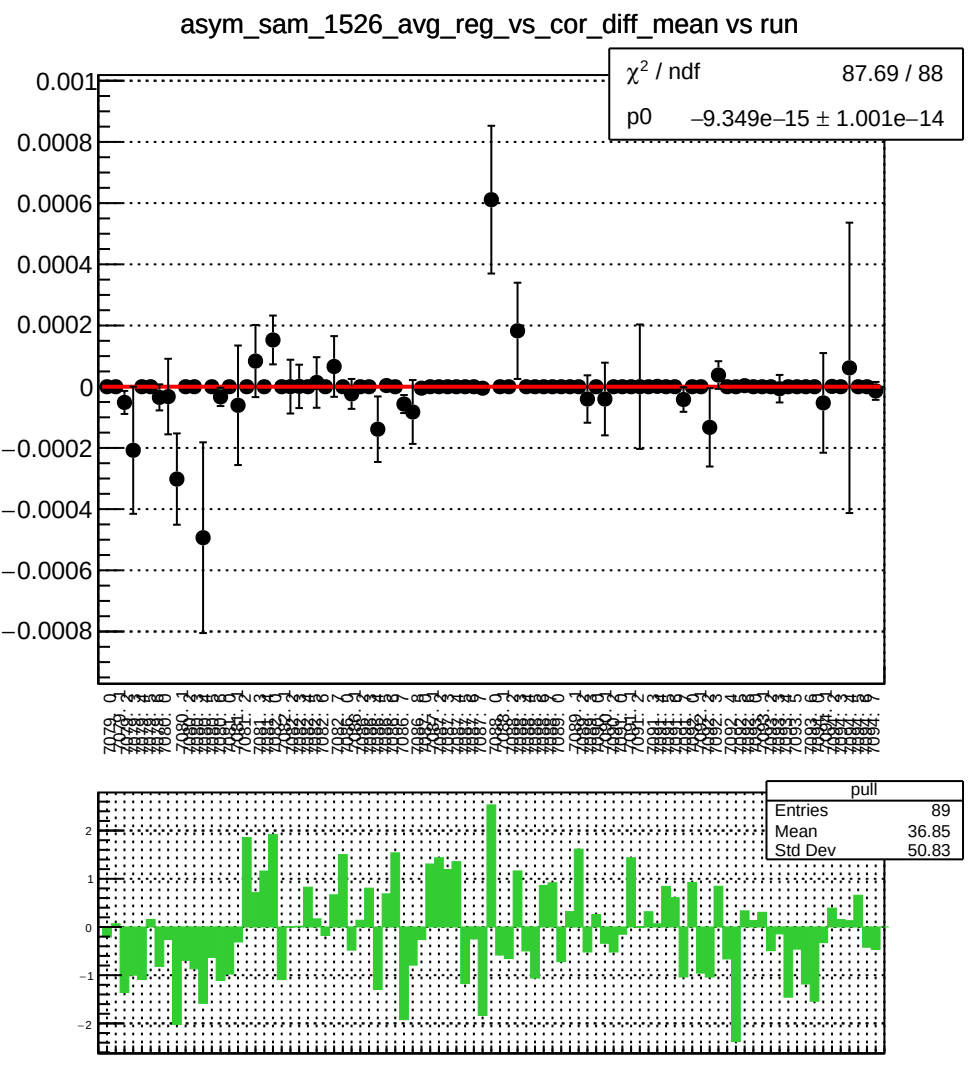

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.48 / 88
p0 −532.8 ± 317.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 489.5
Std Dev 0
pull1D
Entries 89
Mean 0.005958
Std Dev 1.025

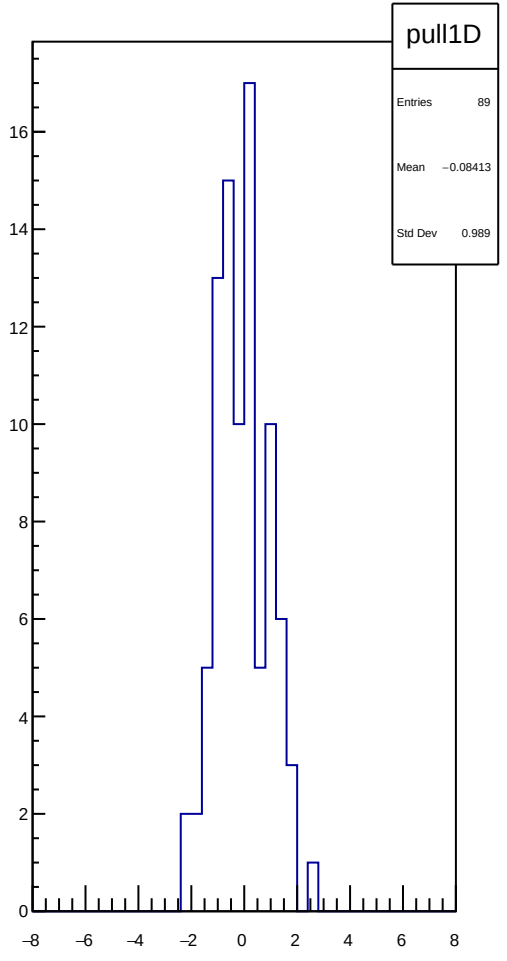

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 4186 / 88
p0 291.1 ± 0.2245
330
320
310
300
290
280
270
260
250

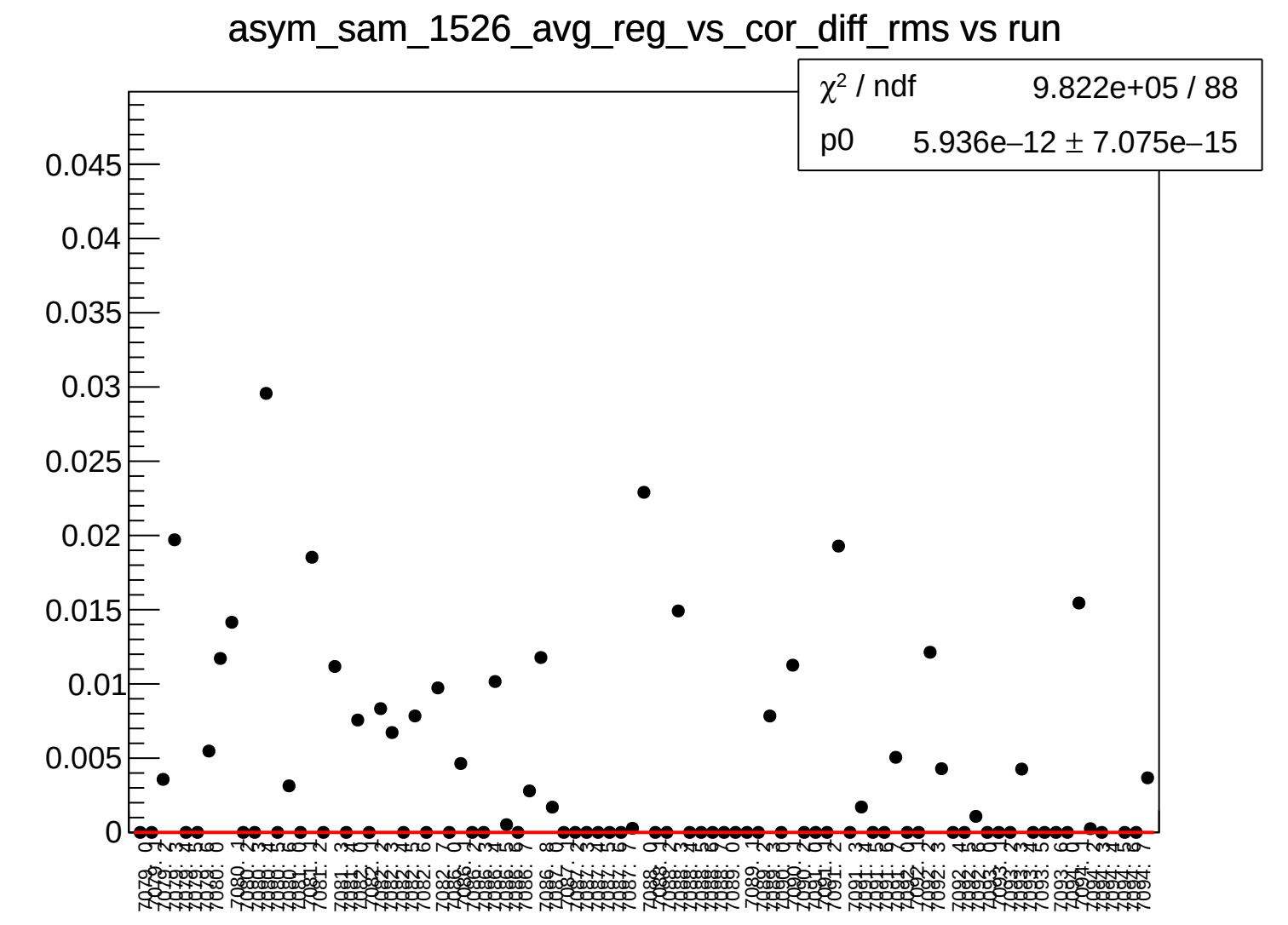

asym_sam_1526_avg_mean vs run
χ² / ndf 89.38 / 88
p0 524.5 ± 327
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1128
Std Dev 0
2
1
0
−1
−2

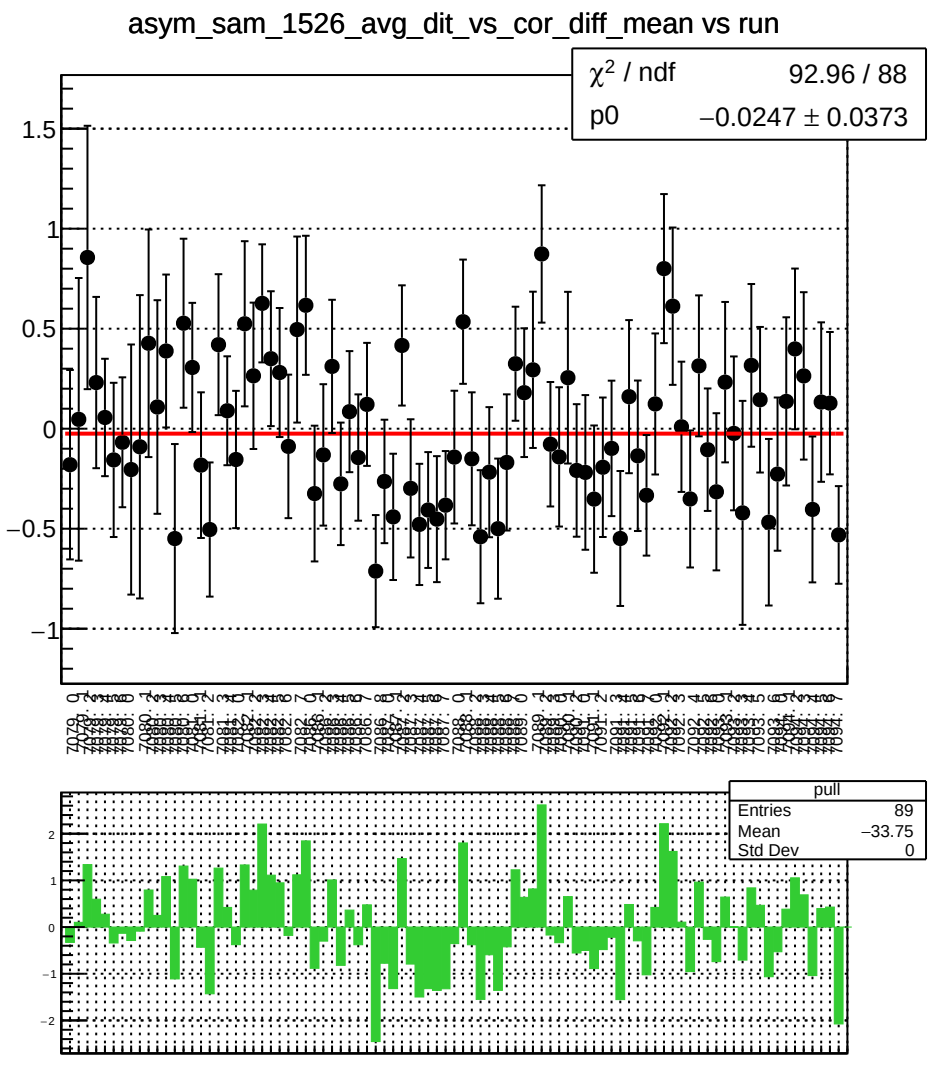

pull1D
Entries 89
Mean −0.002439
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

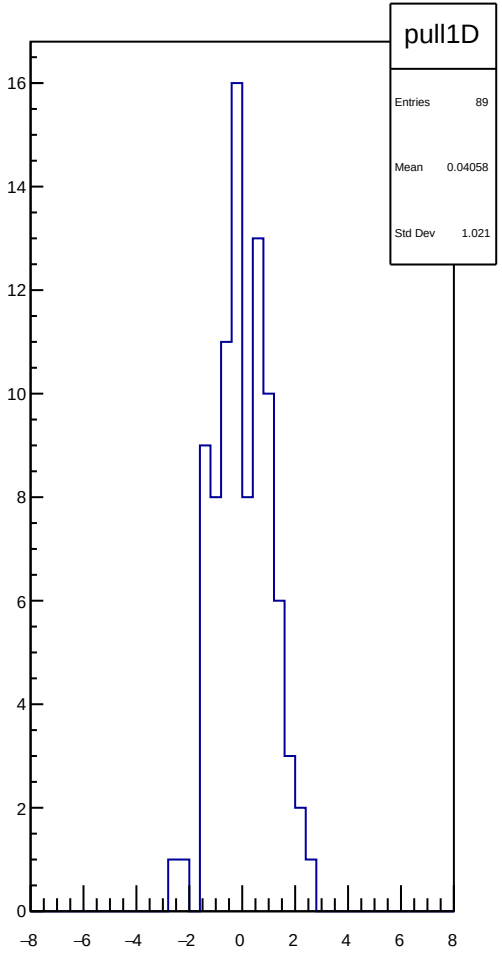

asym_sam_1526_avg_rms vs run
χ² / ndf 5482 / 88
p0 299.8 ± 0.2312
340
320
300
280
260

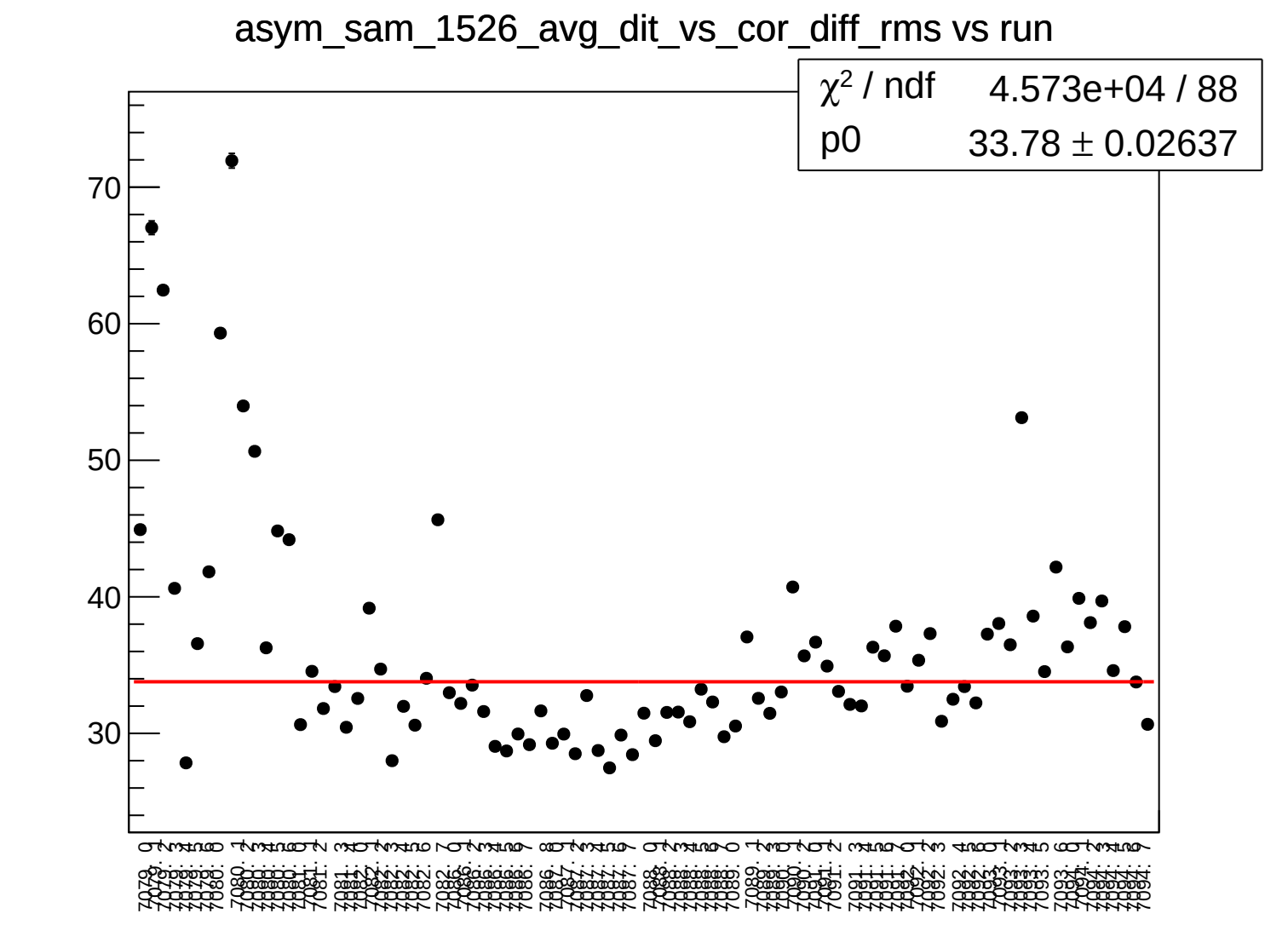

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.69 / 88
p0 −9.349e−15 ± 1.001e−14
pull
Entries 89
Mean 36.85
Std Dev 50.83

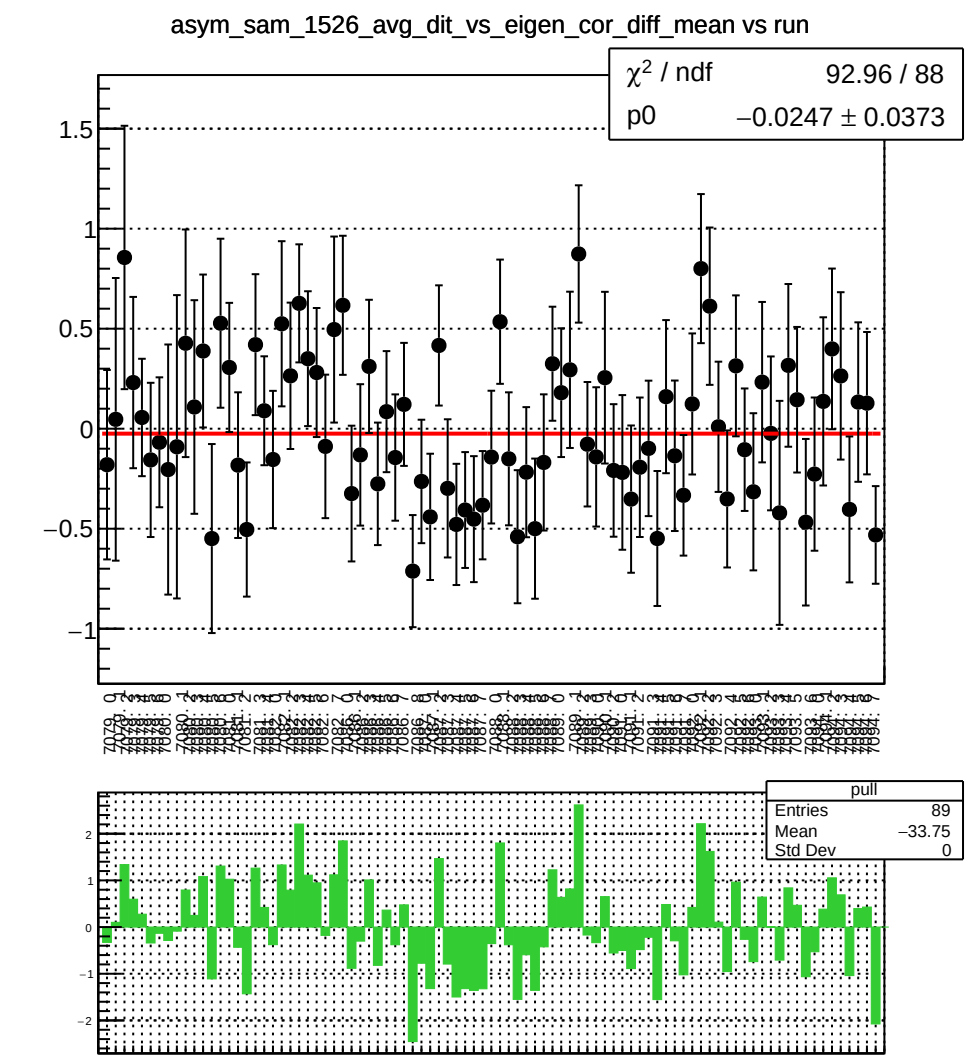

pull1D
Entries 89
Mean −0.08413
Std Dev 0.989

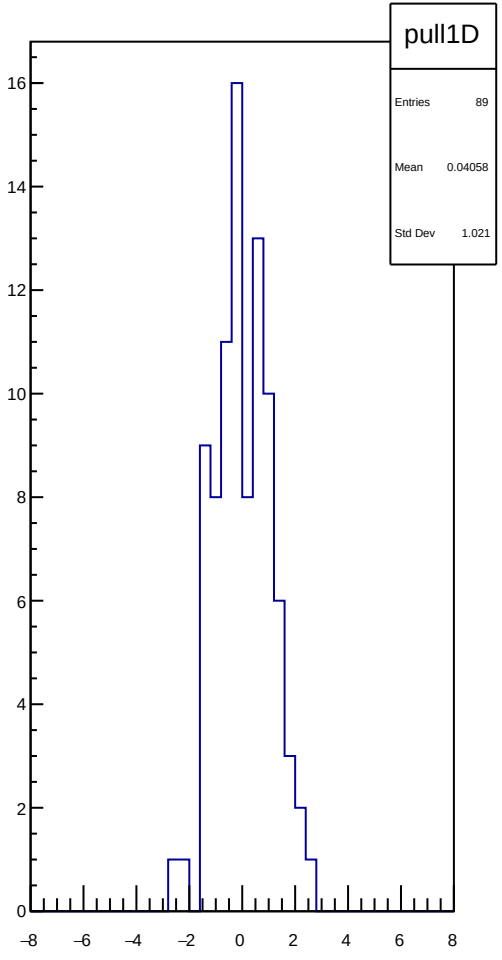

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.822e+05 / 88
p0 5.936e−12 ± 7.075e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

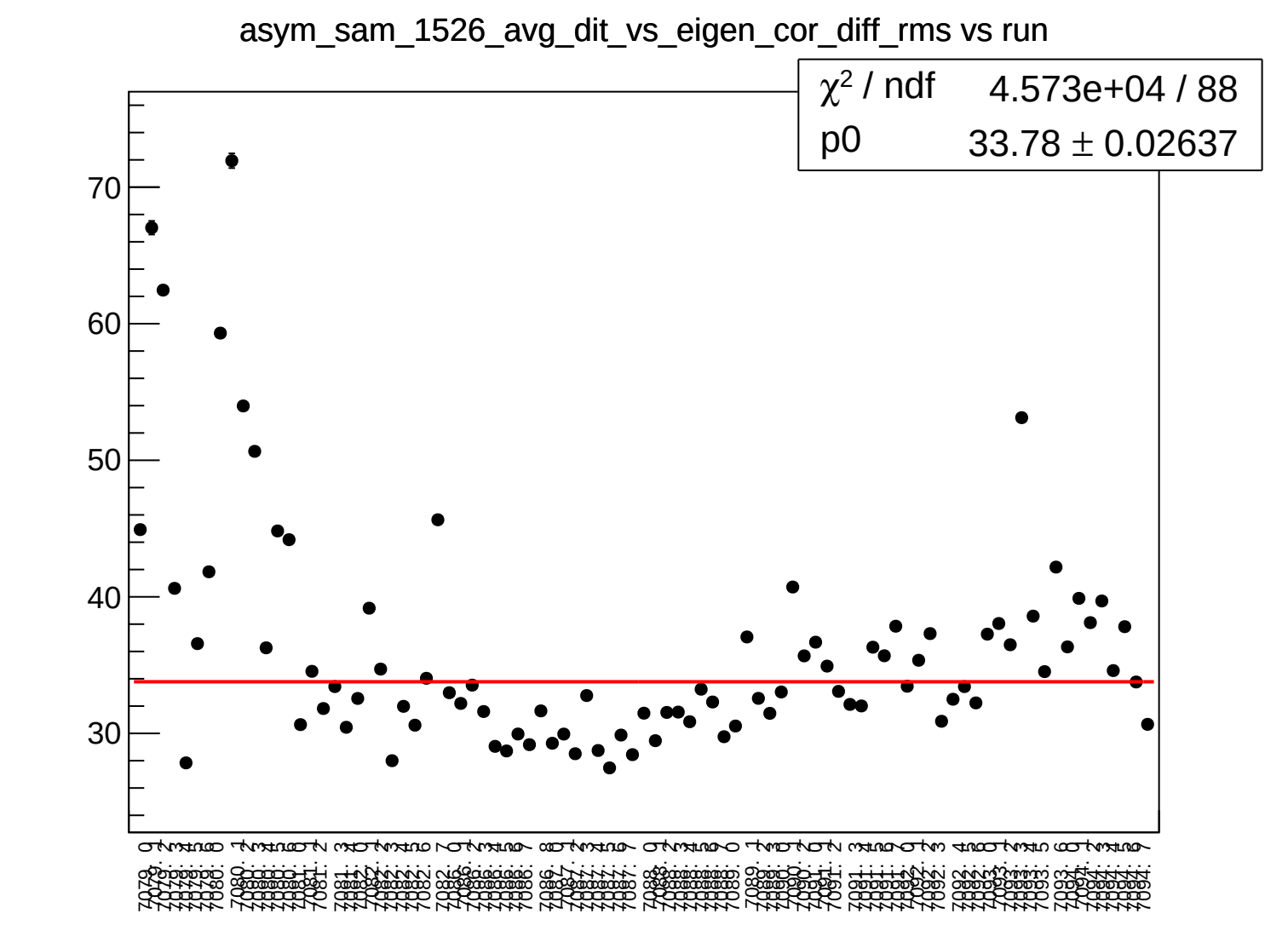

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.96 / 88
p0 −0.0247 ± 0.0373
pull
Entries 89
Mean −33.75
Std Dev 0

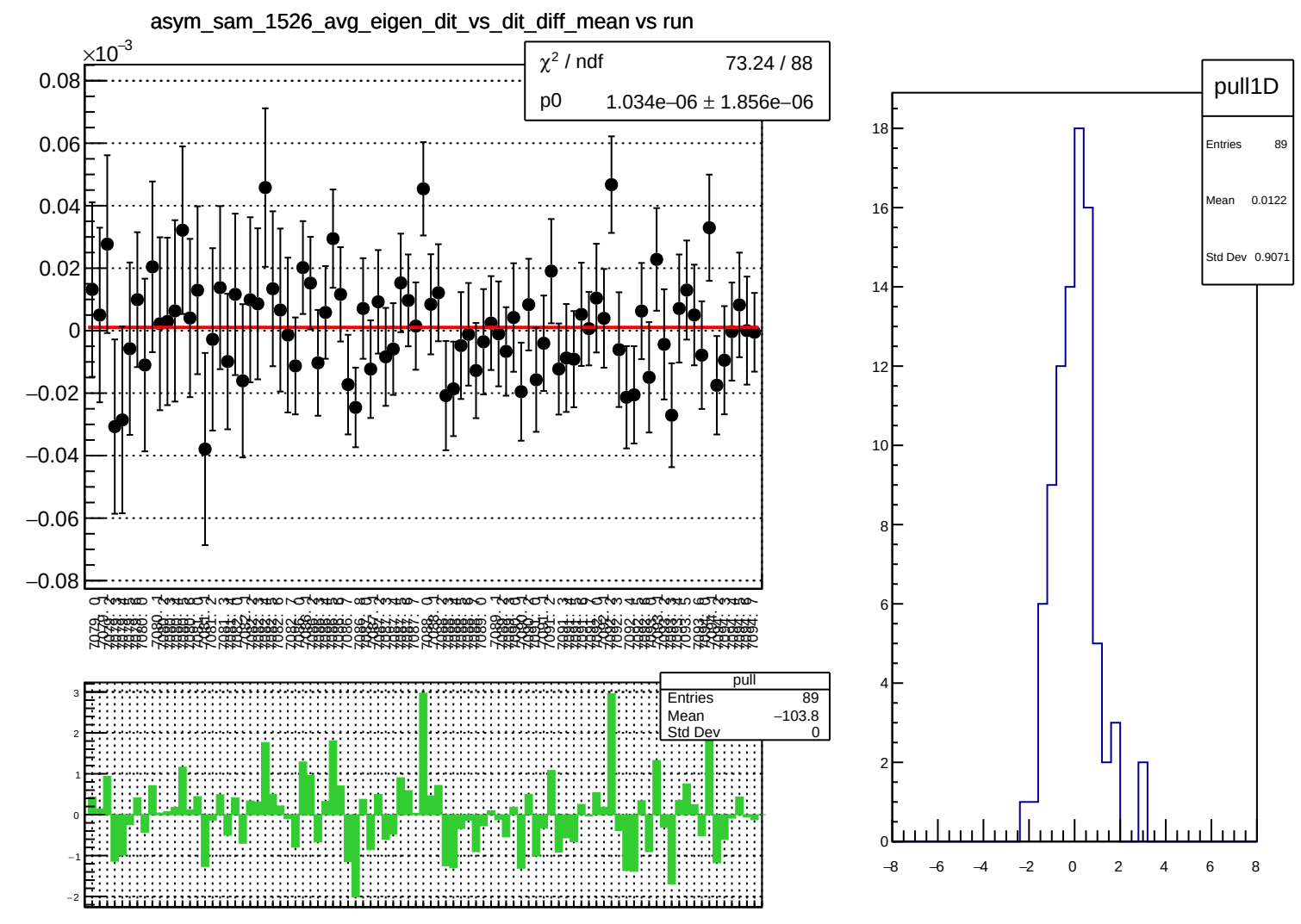

pull1D
Entries 89
Mean 0.04058
Std Dev 1.021

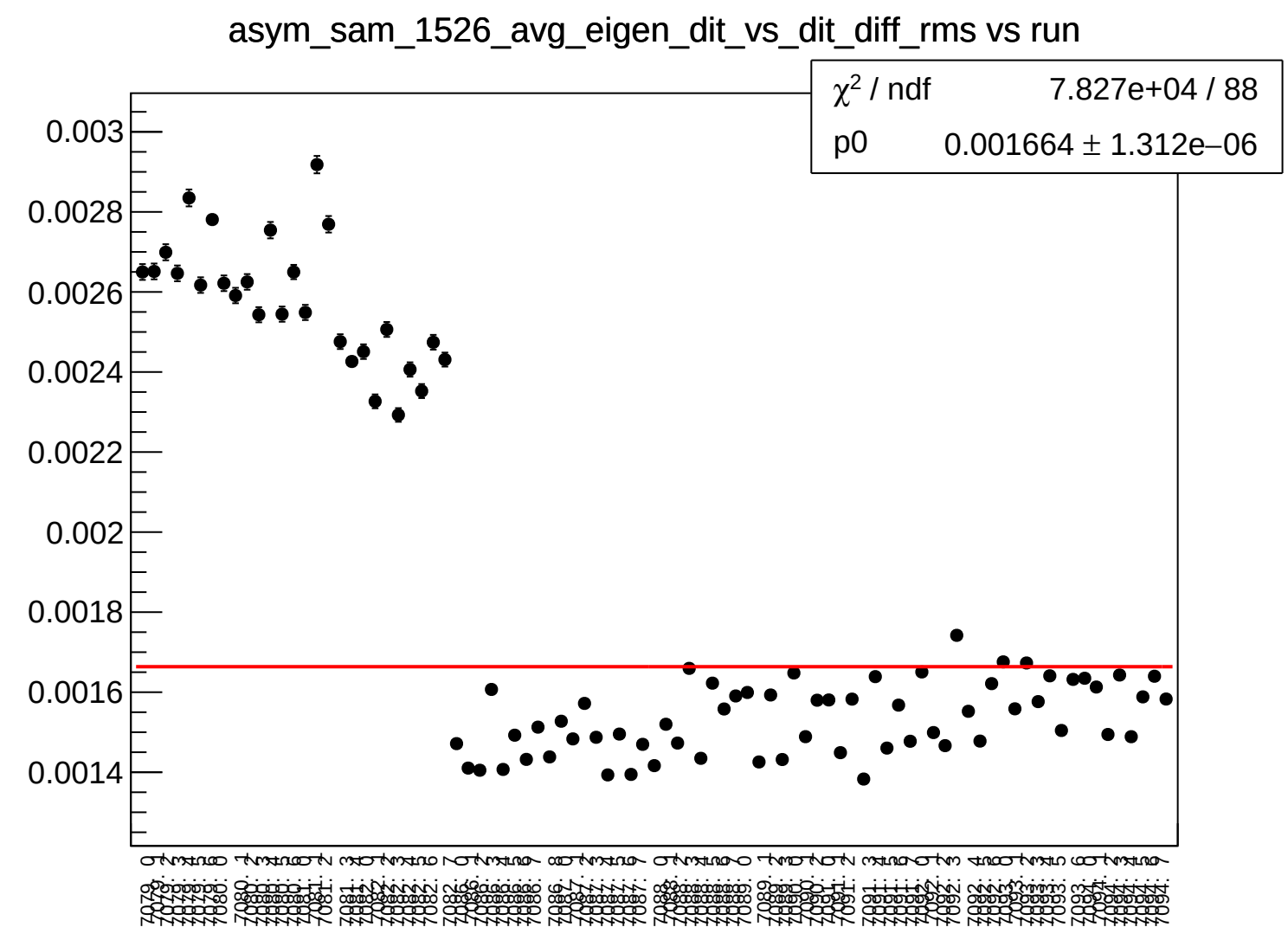

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.573e+04 / 88
p0 33.78 ± 0.02637
70
60
50
40
30

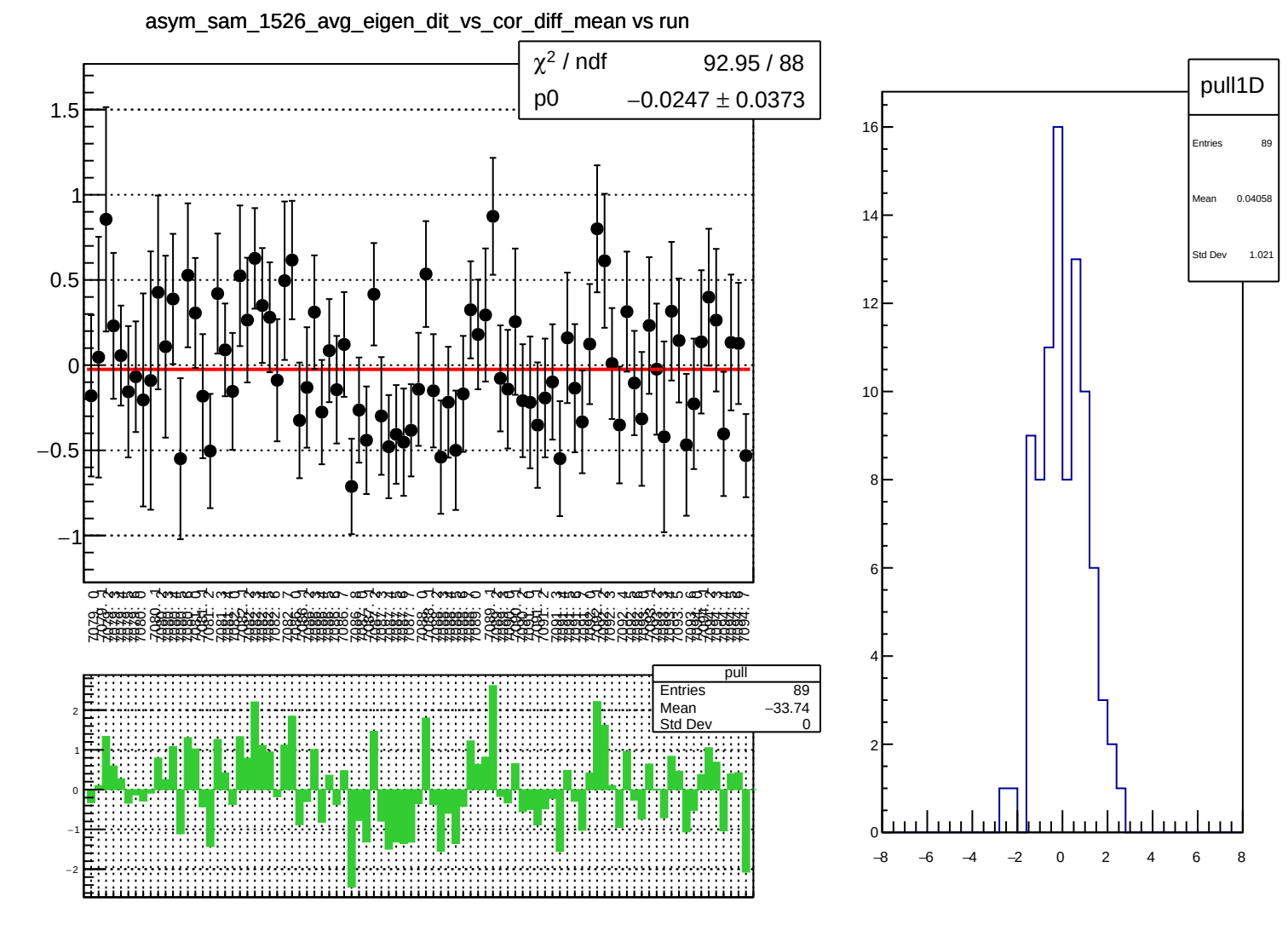

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.96 / 88
p0 −0.0247 ± 0.0373
pull
Entries 89
Mean −33.75
Std Dev 0

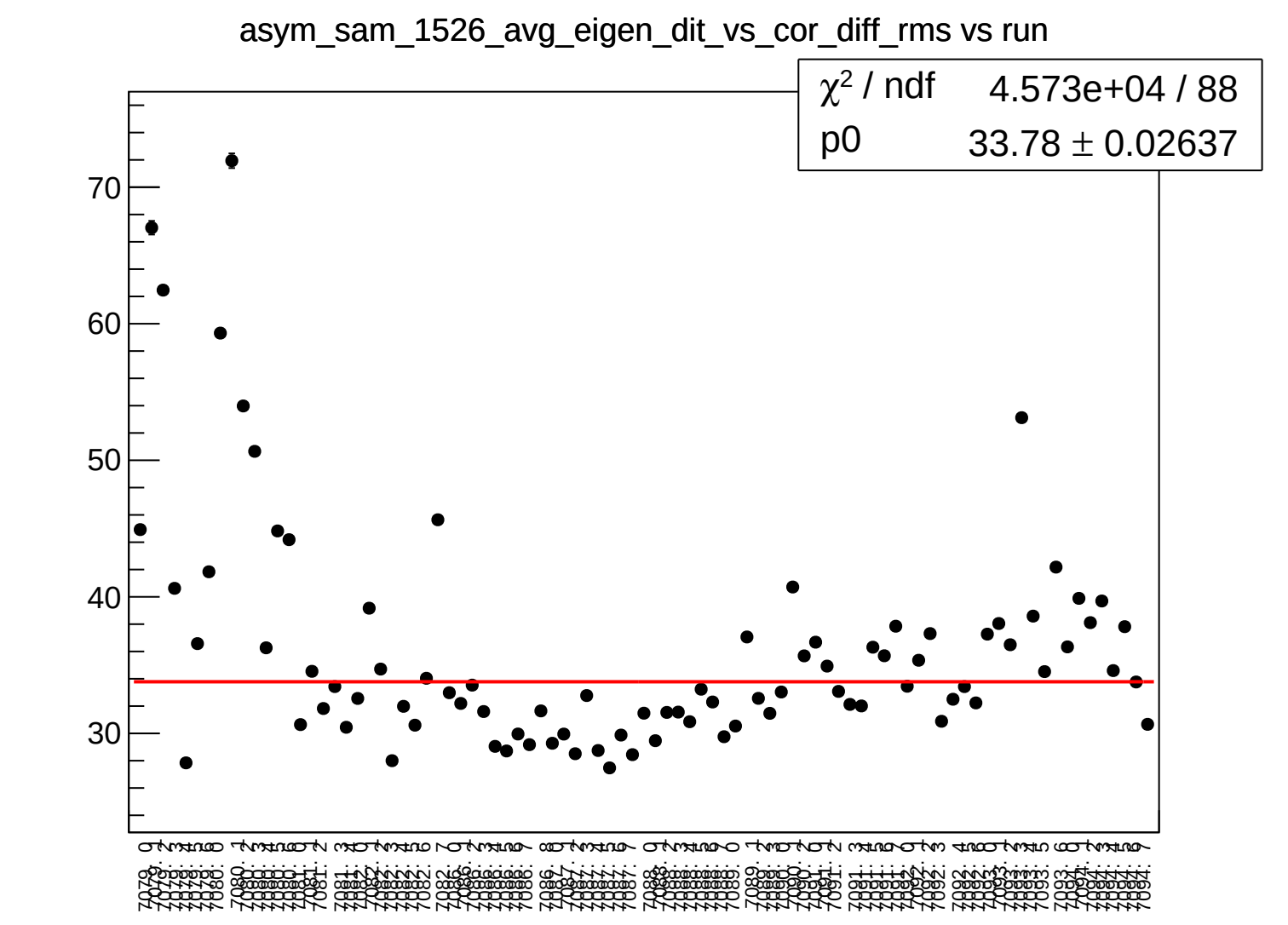

pull1D
Entries 89
Mean 0.04058
Std Dev 1.021

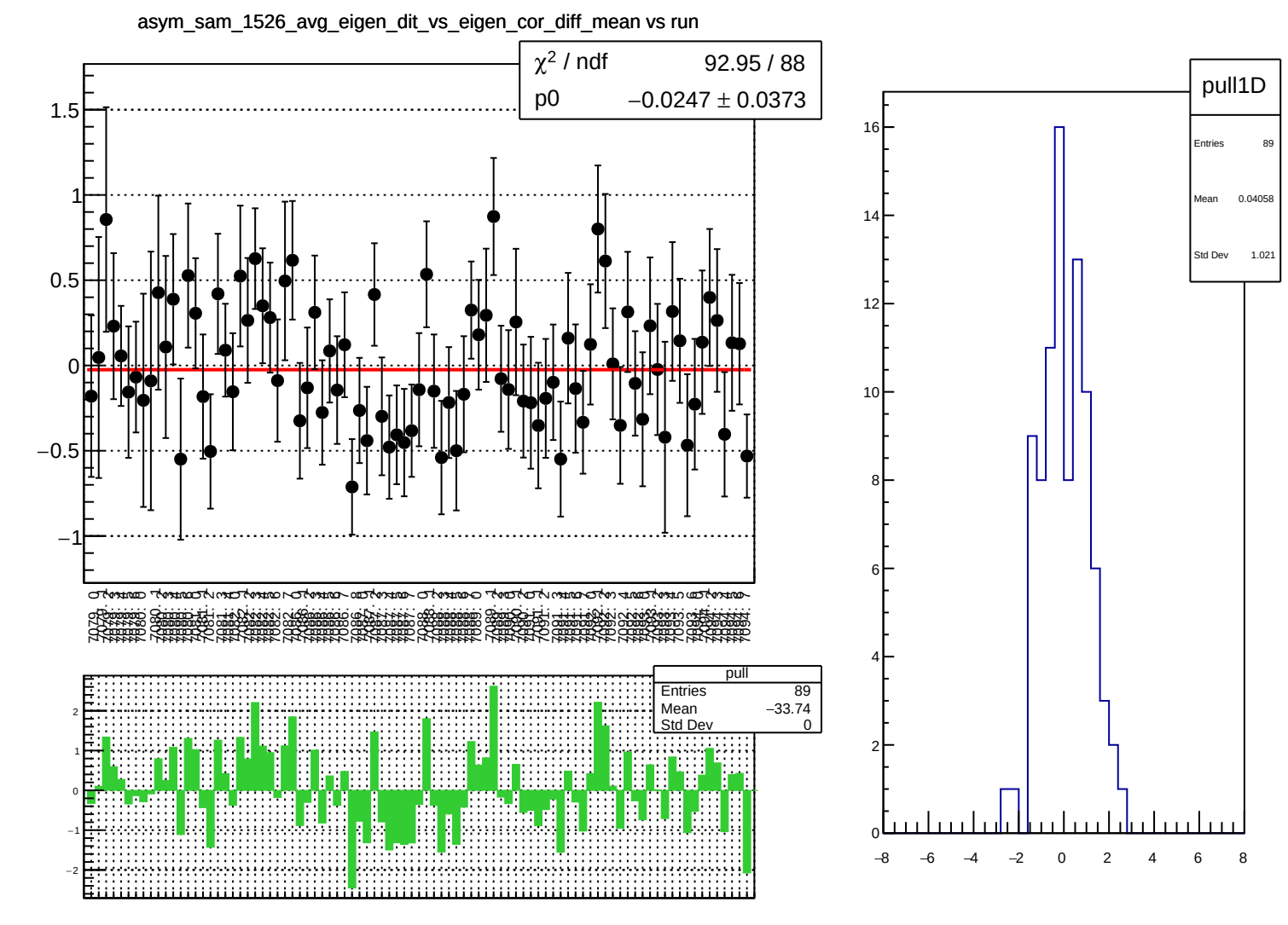

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.573e+04 / 88
p0 33.78 ± 0.02637
70
60
50
40
30

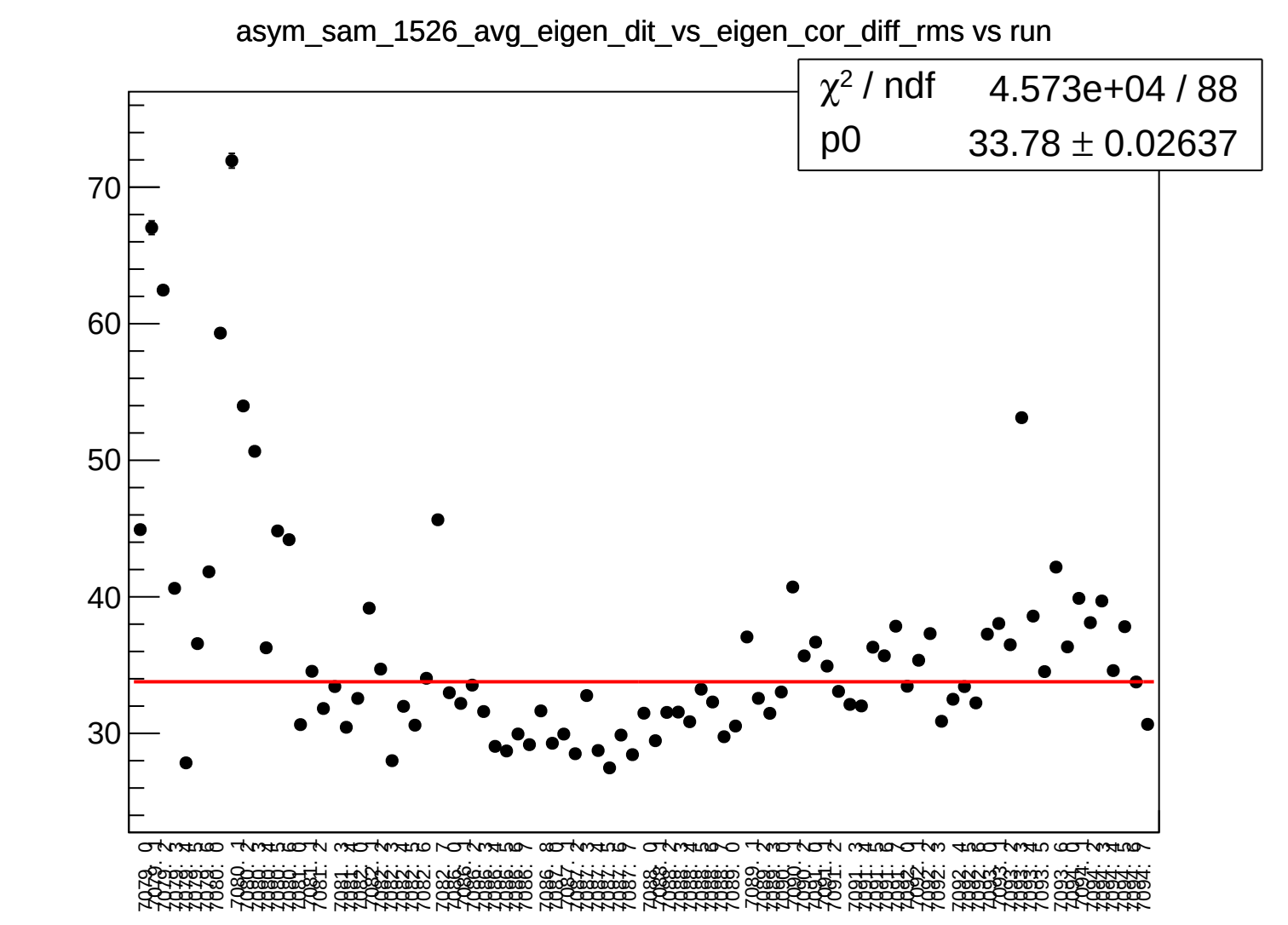

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.24 / 88
p0 1.034e−06 ± 1.856e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −103.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.0122
Std Dev 0.9071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

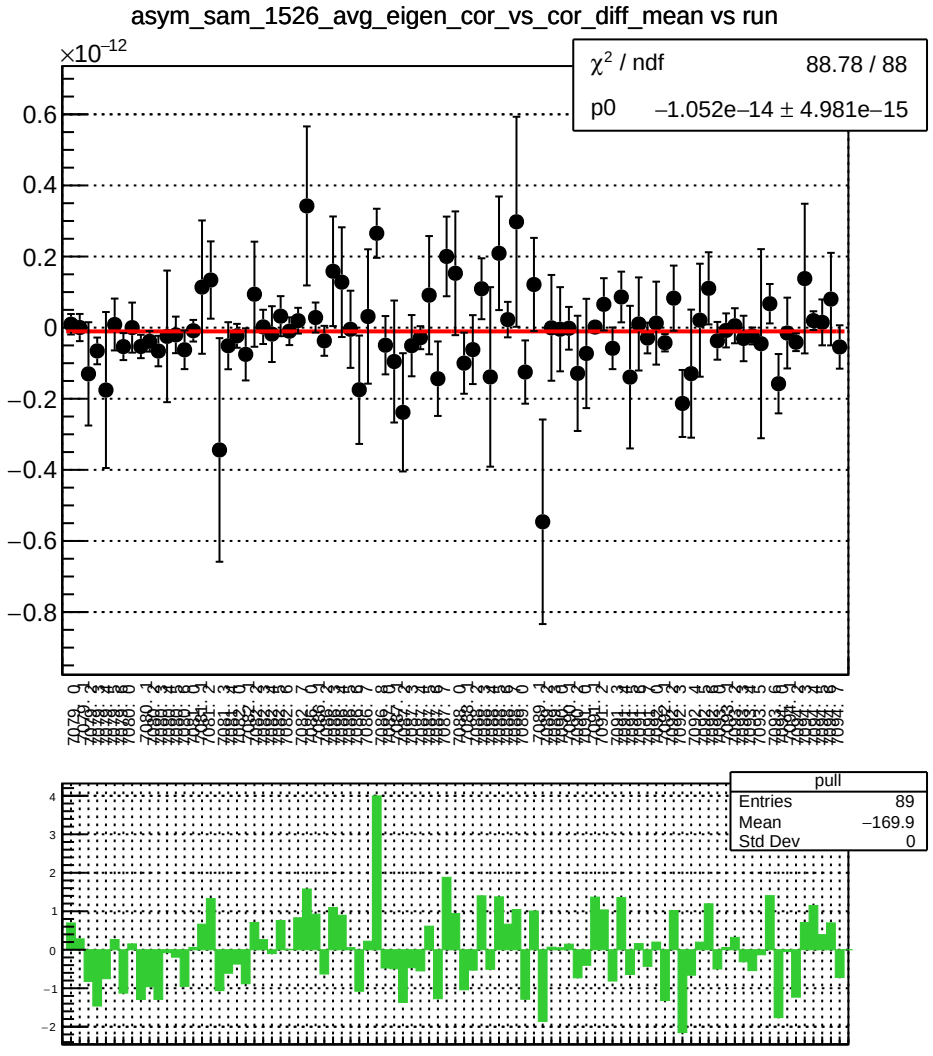

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.827e+04 / 88
p0 0.001664 ± 1.312e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

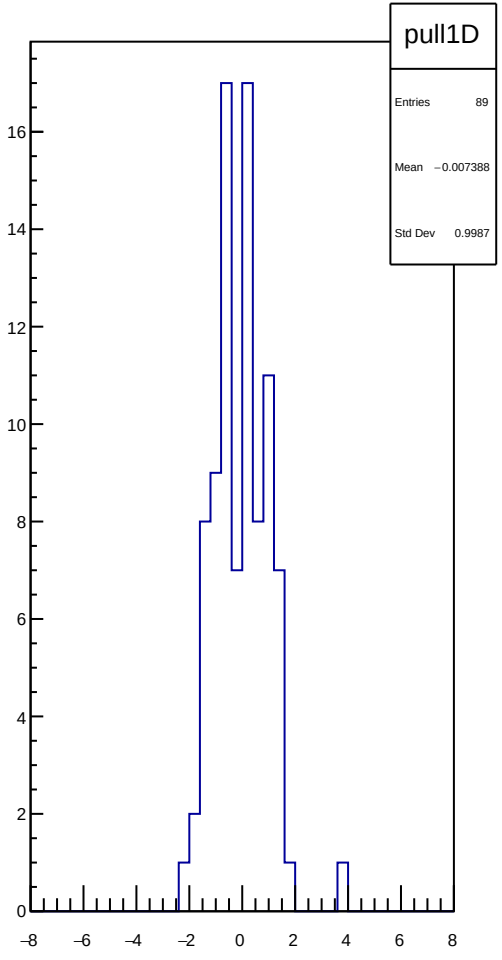

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.95 / 88
p0 −0.0247 ± 0.0373
pull
Entries 89
Mean −33.74
Std Dev 0
pull1D
Entries 89
Mean 0.04058
Std Dev 1.021

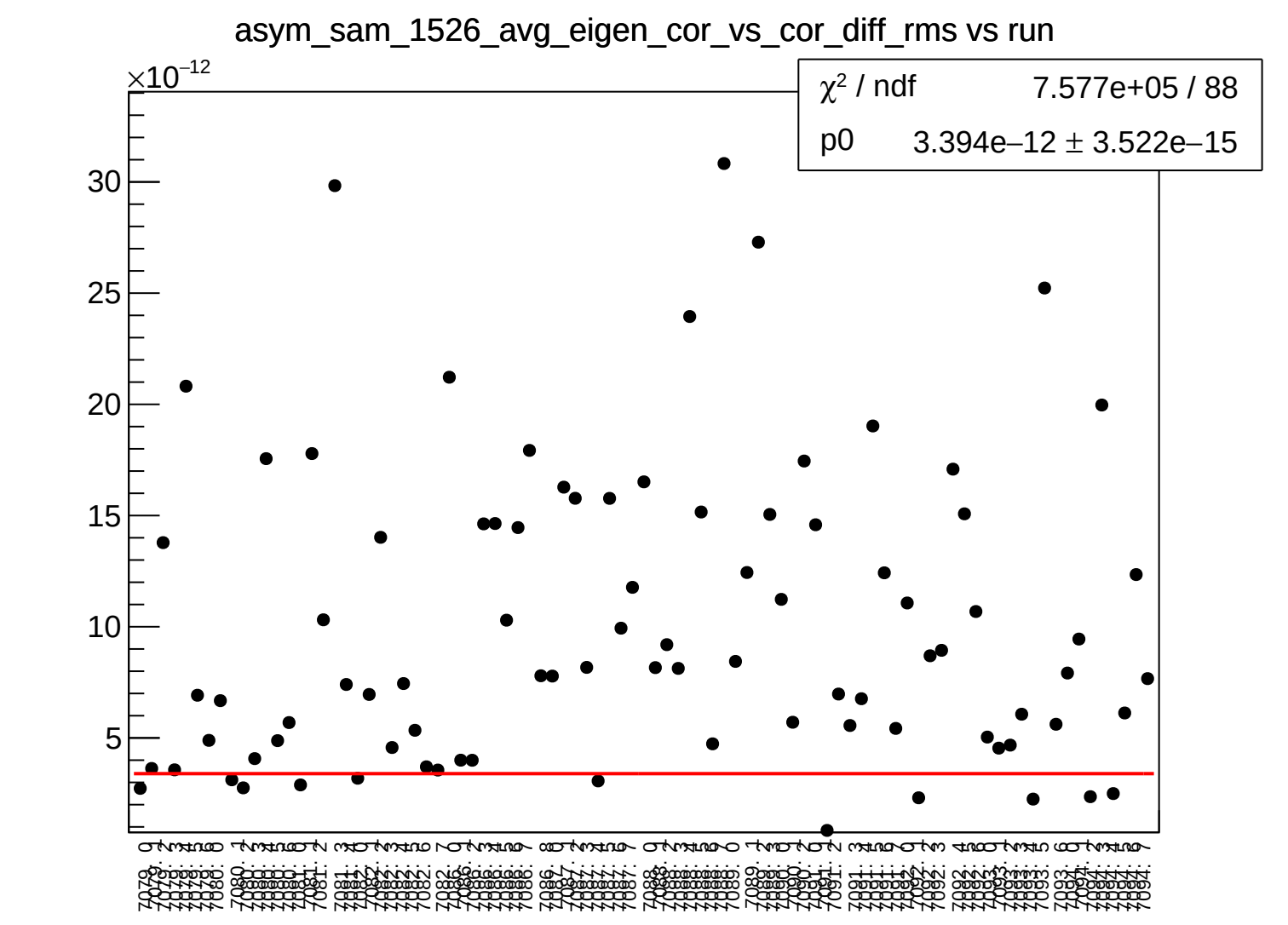

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.573e+04 / 88
p0 33.78 ± 0.02637
70
60
50
40
30

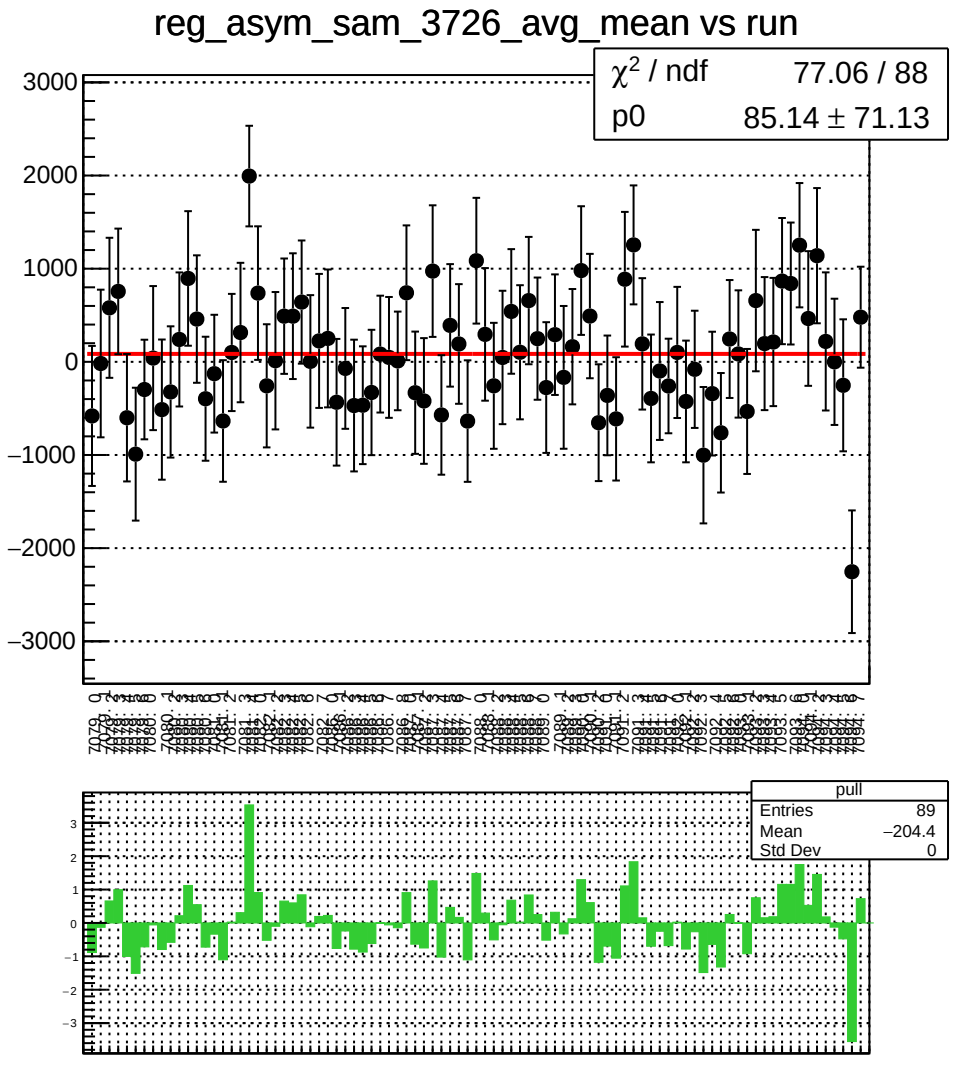

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.95 / 88
p0 −0.0247 ± 0.0373
pull
Entries 89
Mean −33.74
Std Dev 0
pull1D
Entries 89
Mean 0.04058
Std Dev 1.021

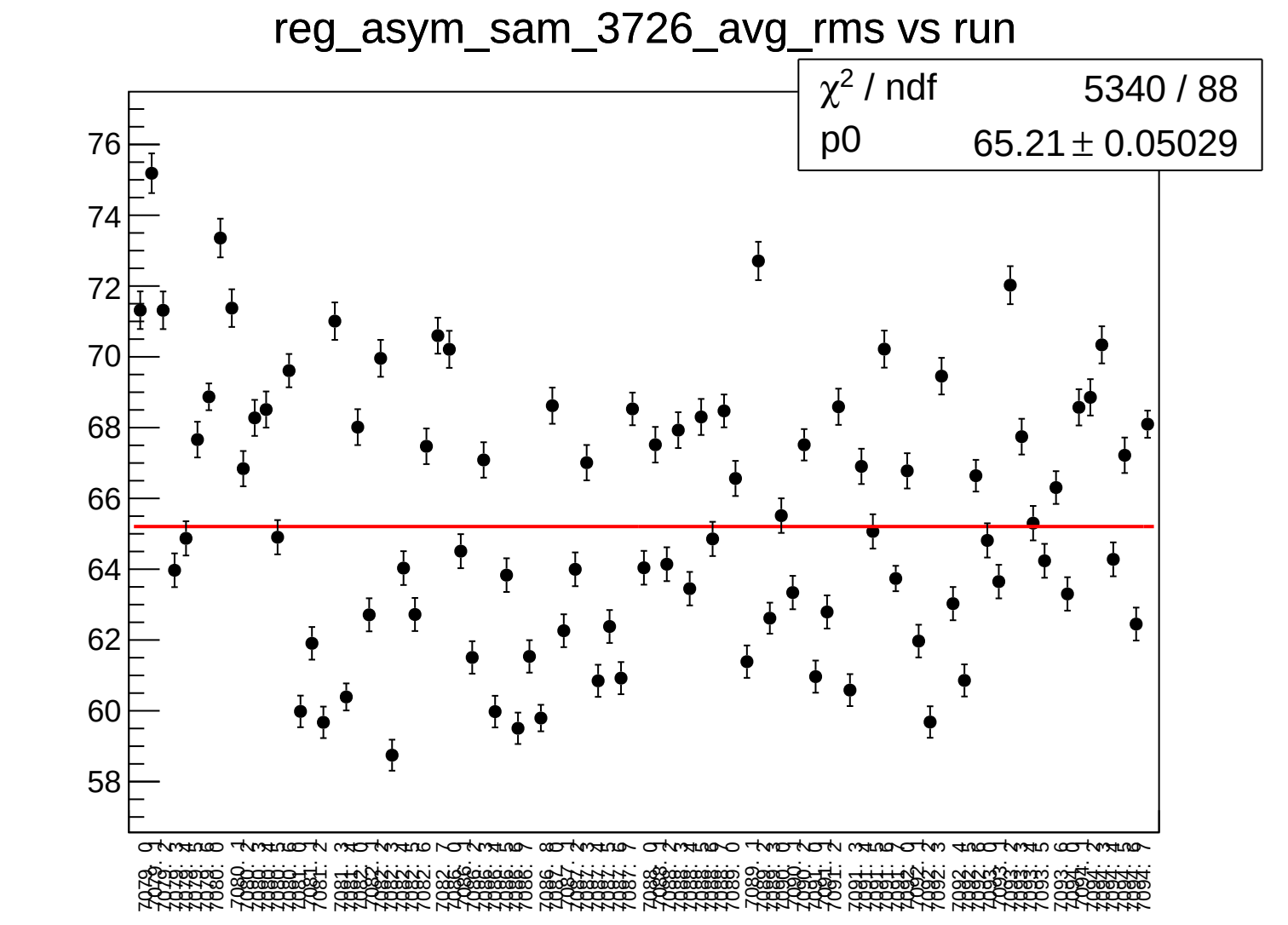

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.573e+04 / 88
p0 33.78 ± 0.02637
70
60
50
40
30

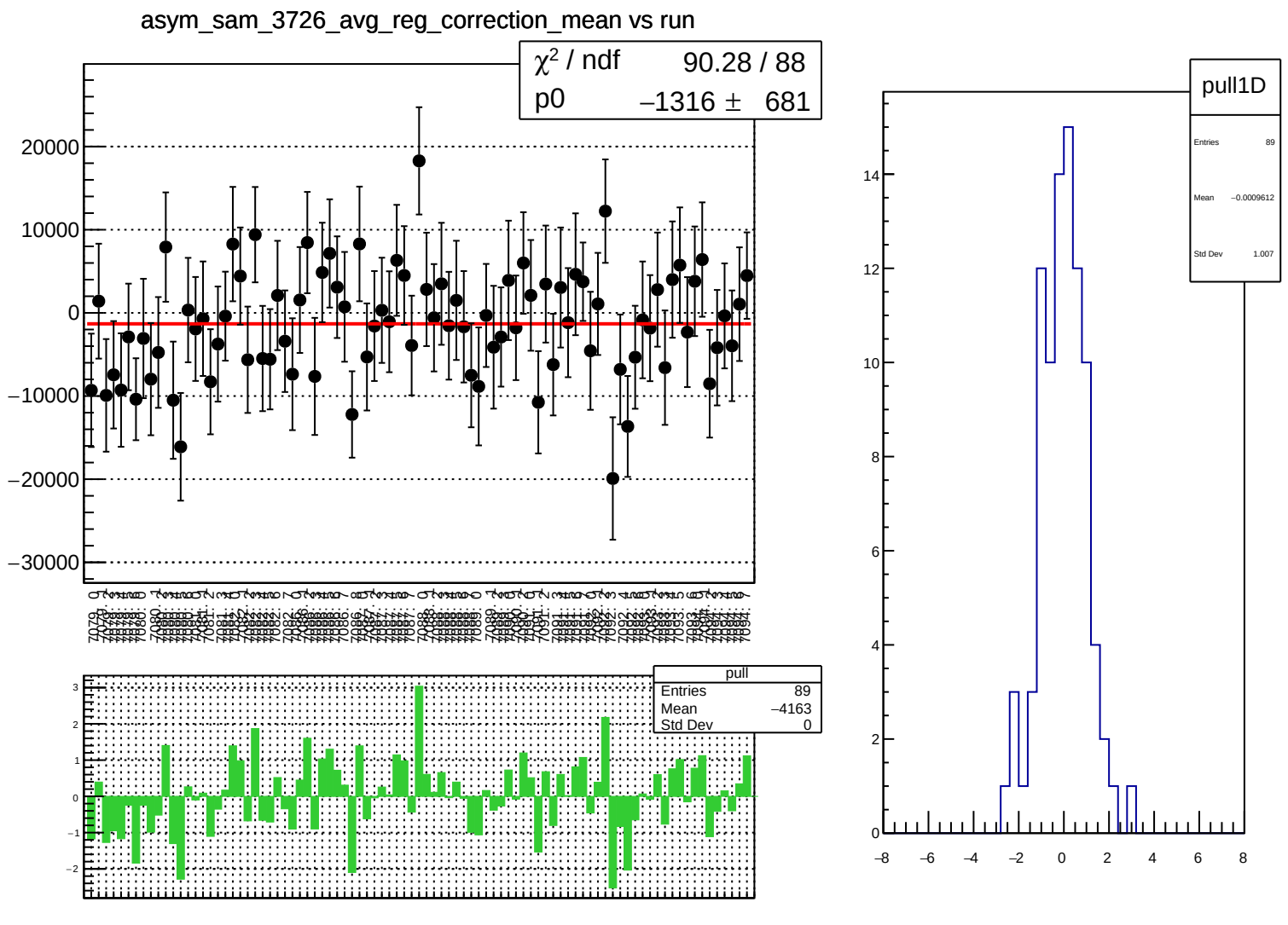

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 88.78 / 88
p0 −1.052e−14 ± 4.981e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 89
Mean −169.9
Std Dev 0
4
3
2
1
0
−1
−2

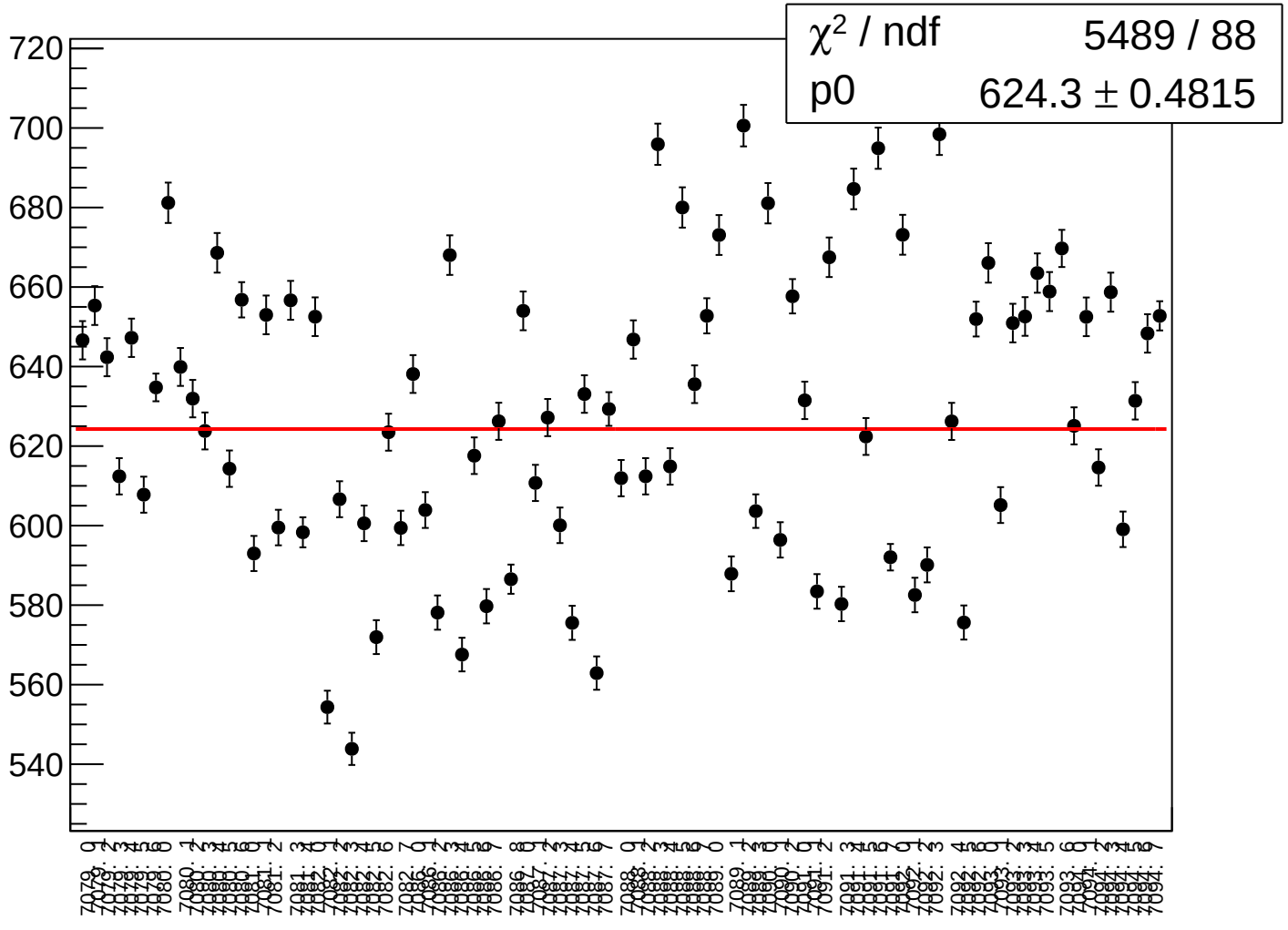

pull1D
Entries 89
Mean −0.007388
Std Dev 0.9987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

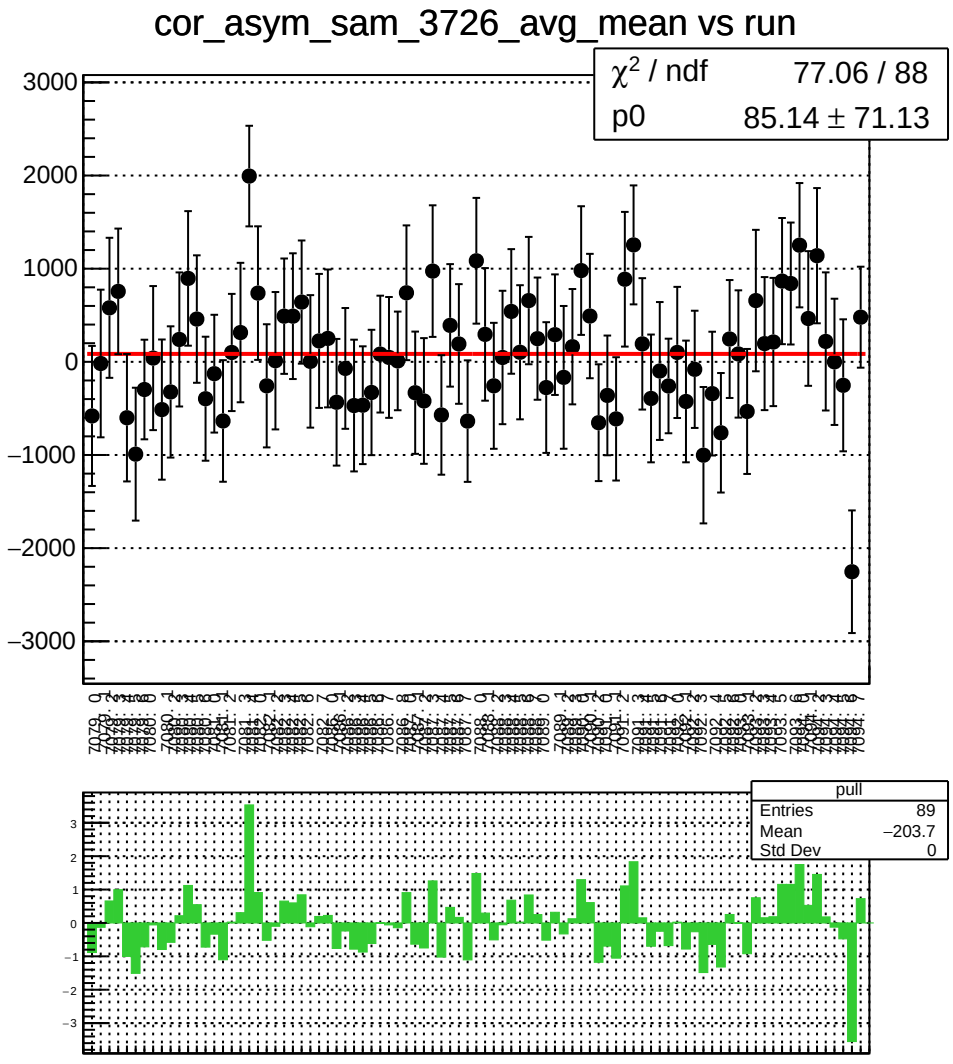

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.577e+05 / 88
p0 3.394e−12 ± 3.522e−15
30
25
20
15
10
5

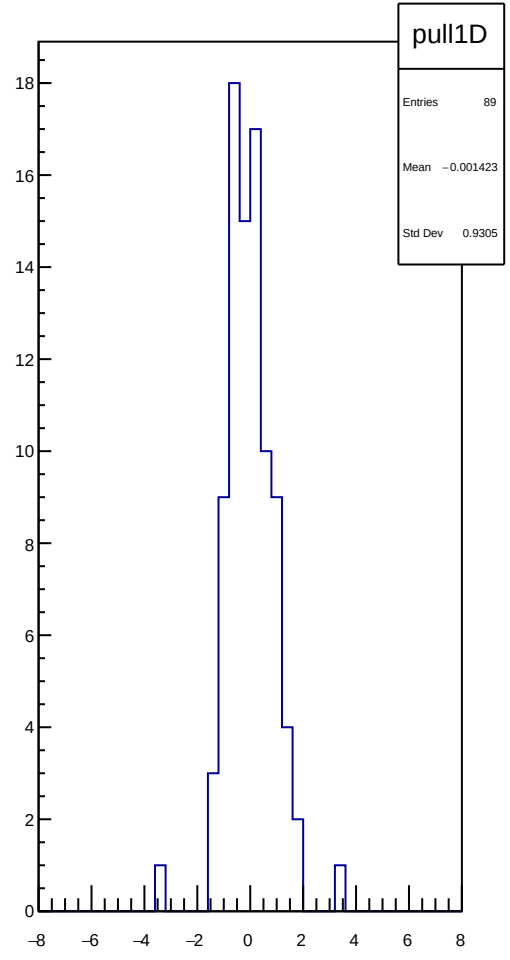

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 77.06 / 88
p0 85.14 ± 71.13
pull
Entries 89
Mean −204.4
Std Dev 0
pull1D
Entries 89
Mean −0.001421
Std Dev 0.9305

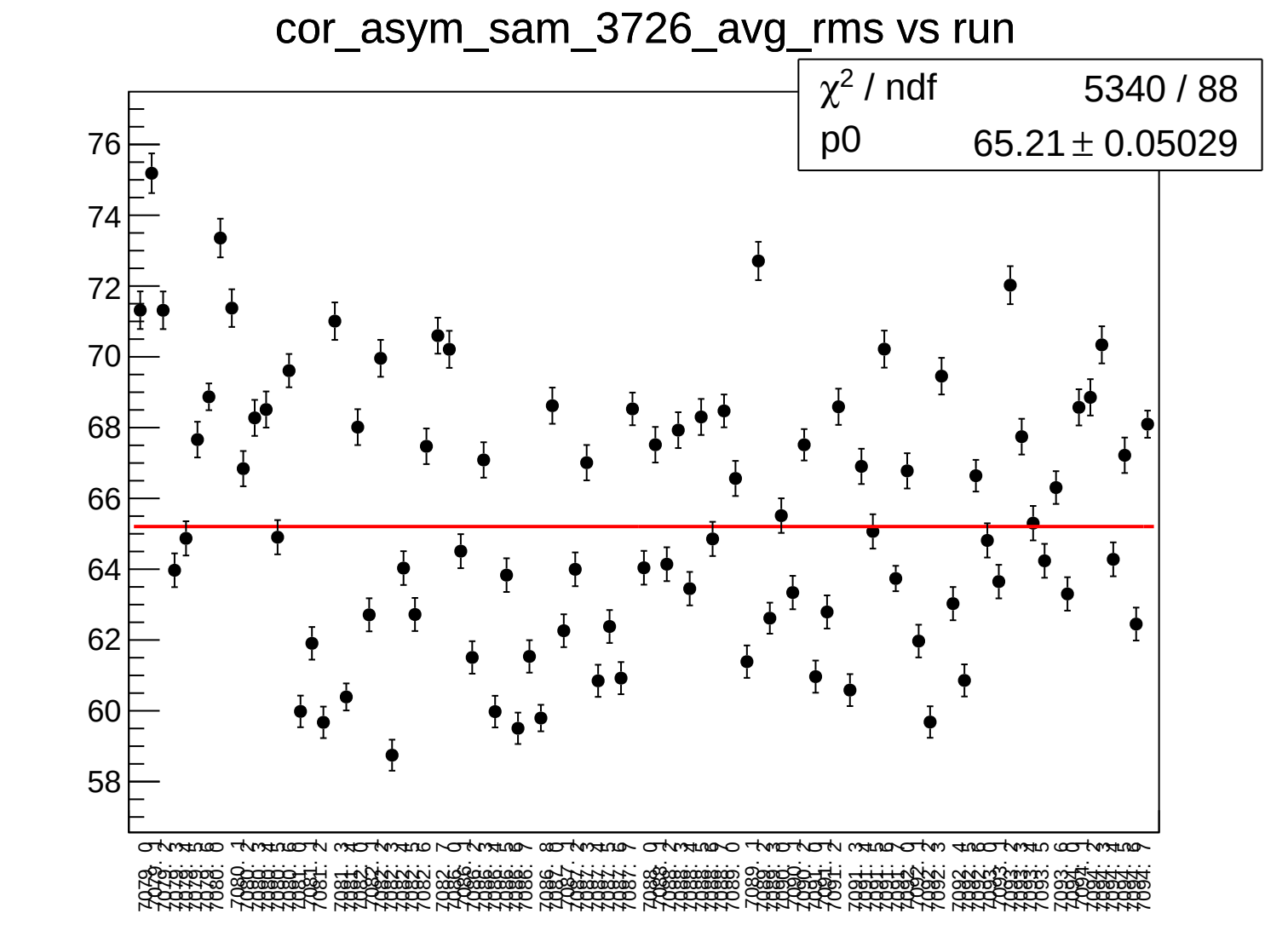

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 5340 / 88
p0 65.21 ± 0.05029
76
74
72
70
68
66
64
62
60
58

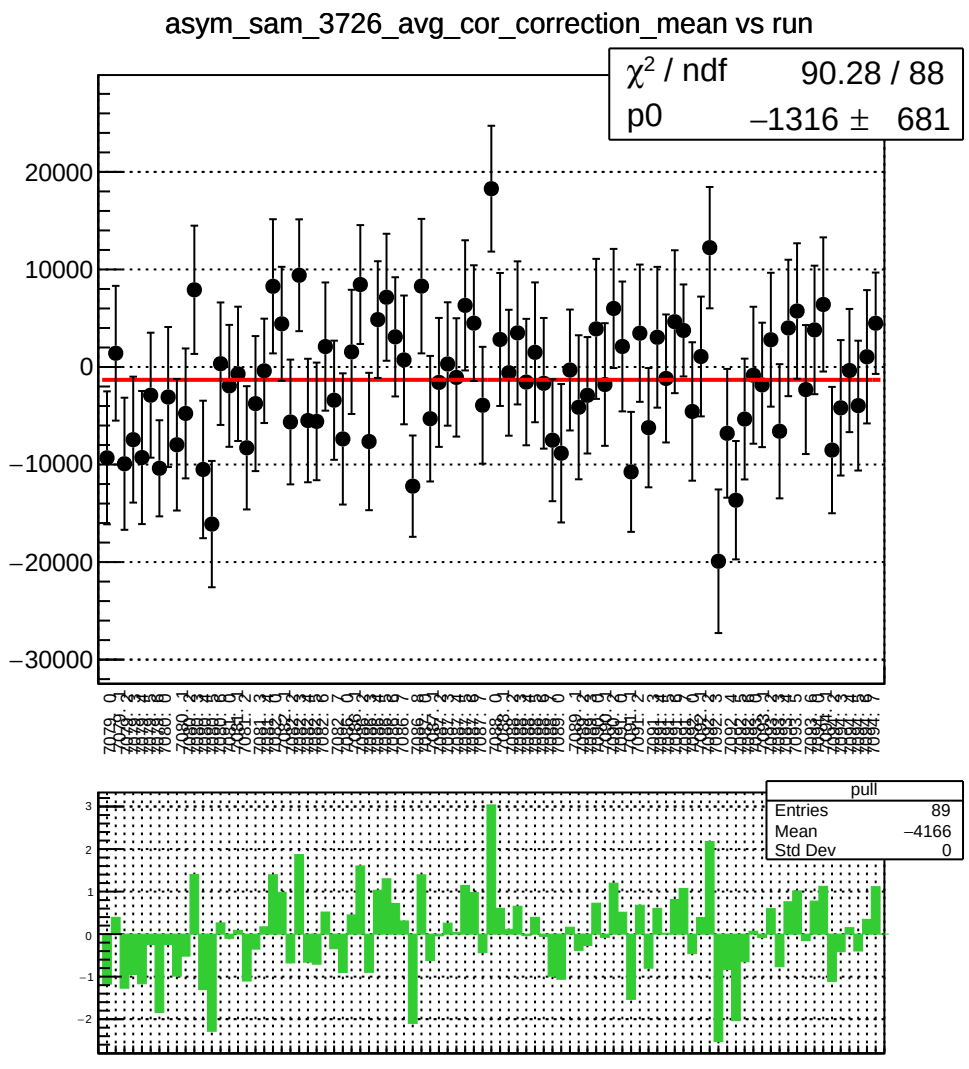

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 90.28 / 88
p0 −1316 ± 681
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −4163
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0009612
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

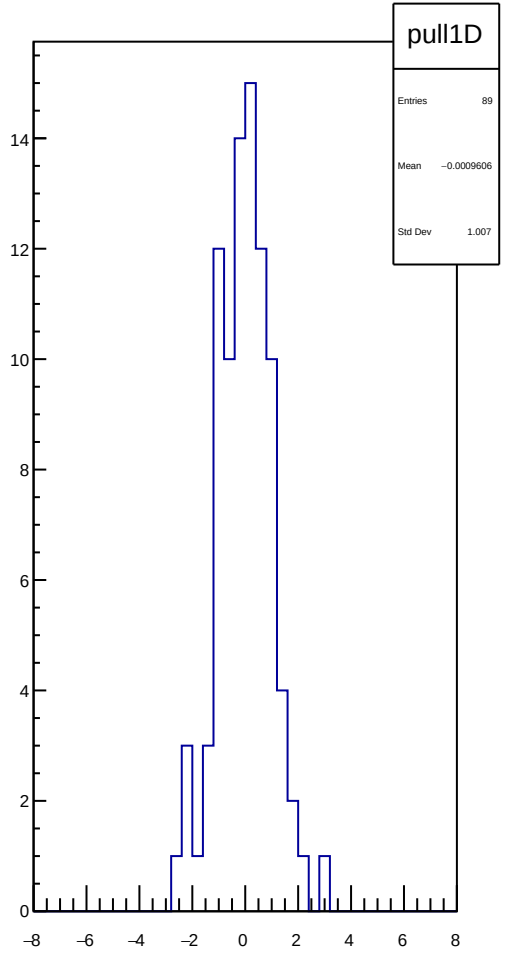

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 5489 / 88
p0 624.3 ± 0.4815
720
700
680
660
640
620
600
580
560
540

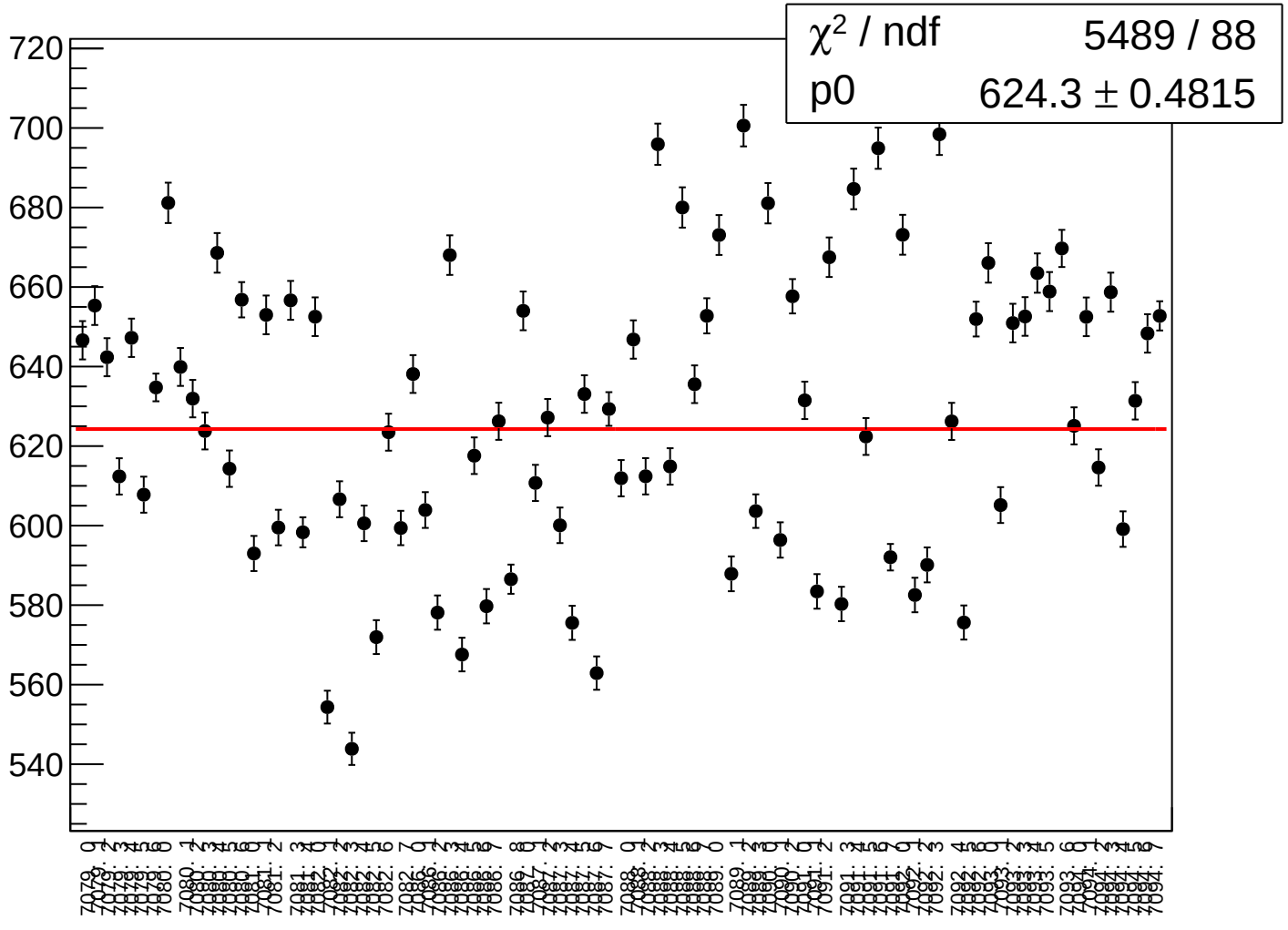

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 77.06 / 88
p0 85.14 ± 71.13
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −203.7
Std Dev 0
3
2
1
0
−1
−2
−3

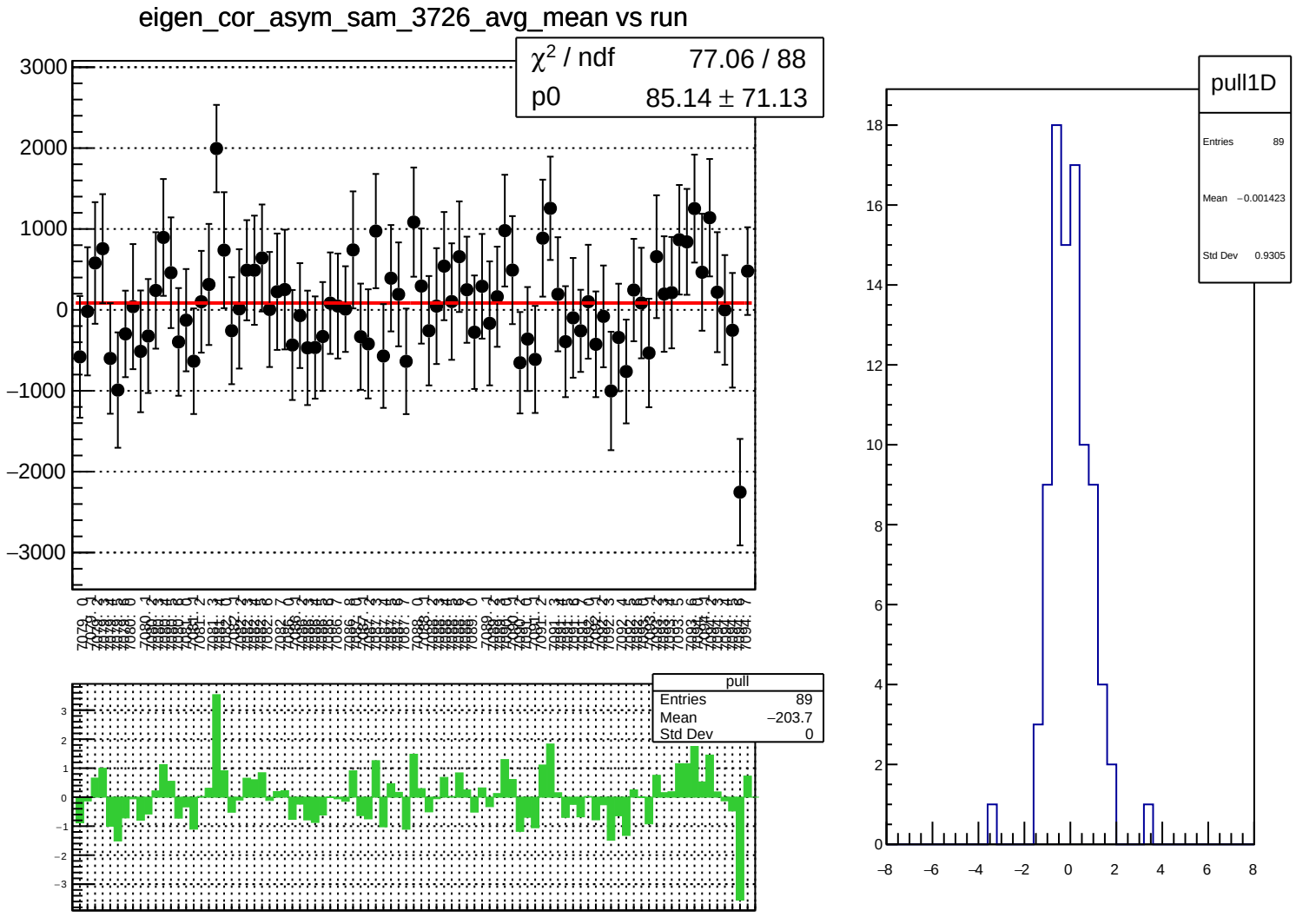

pull1D
Entries 89
Mean −0.001423
Std Dev 0.9305
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

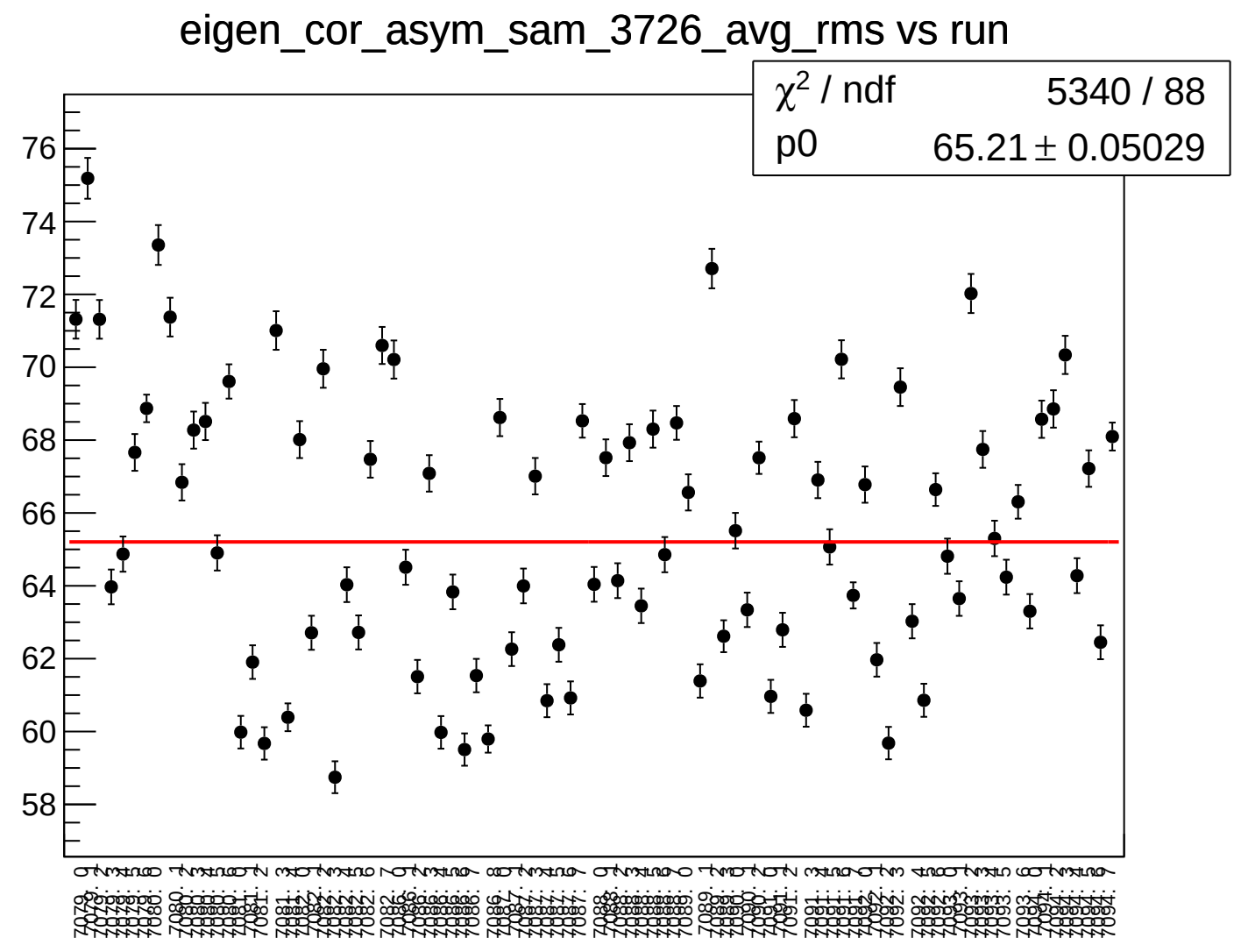

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 5340 / 88
p0 65.21 ± 0.05029
76
74
72
70
68
66
64
62
60
58

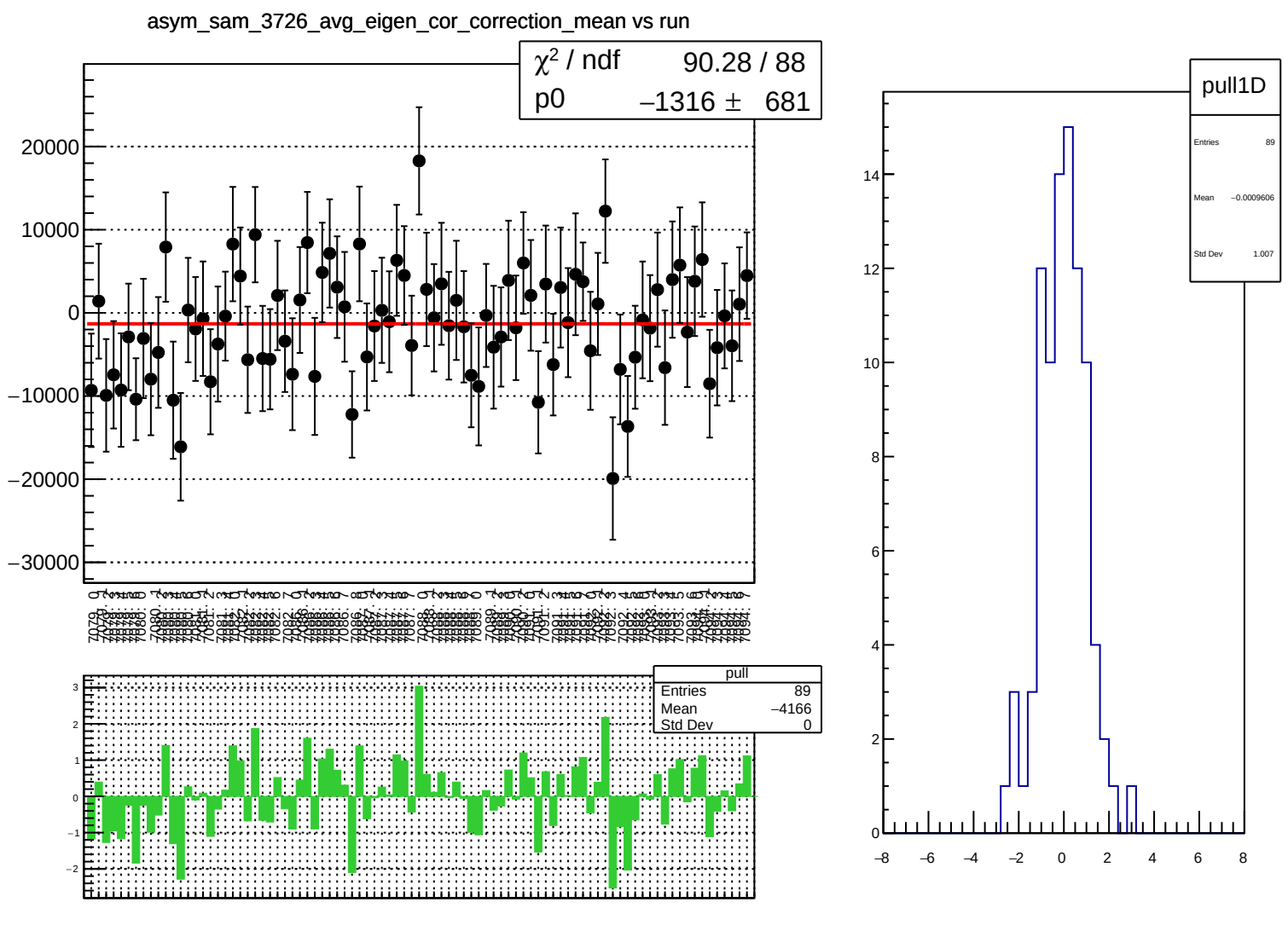

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 90.28 / 88
p0 −1316 ± 681
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −4166
Std Dev 0
3
2
1
0
−1
−2

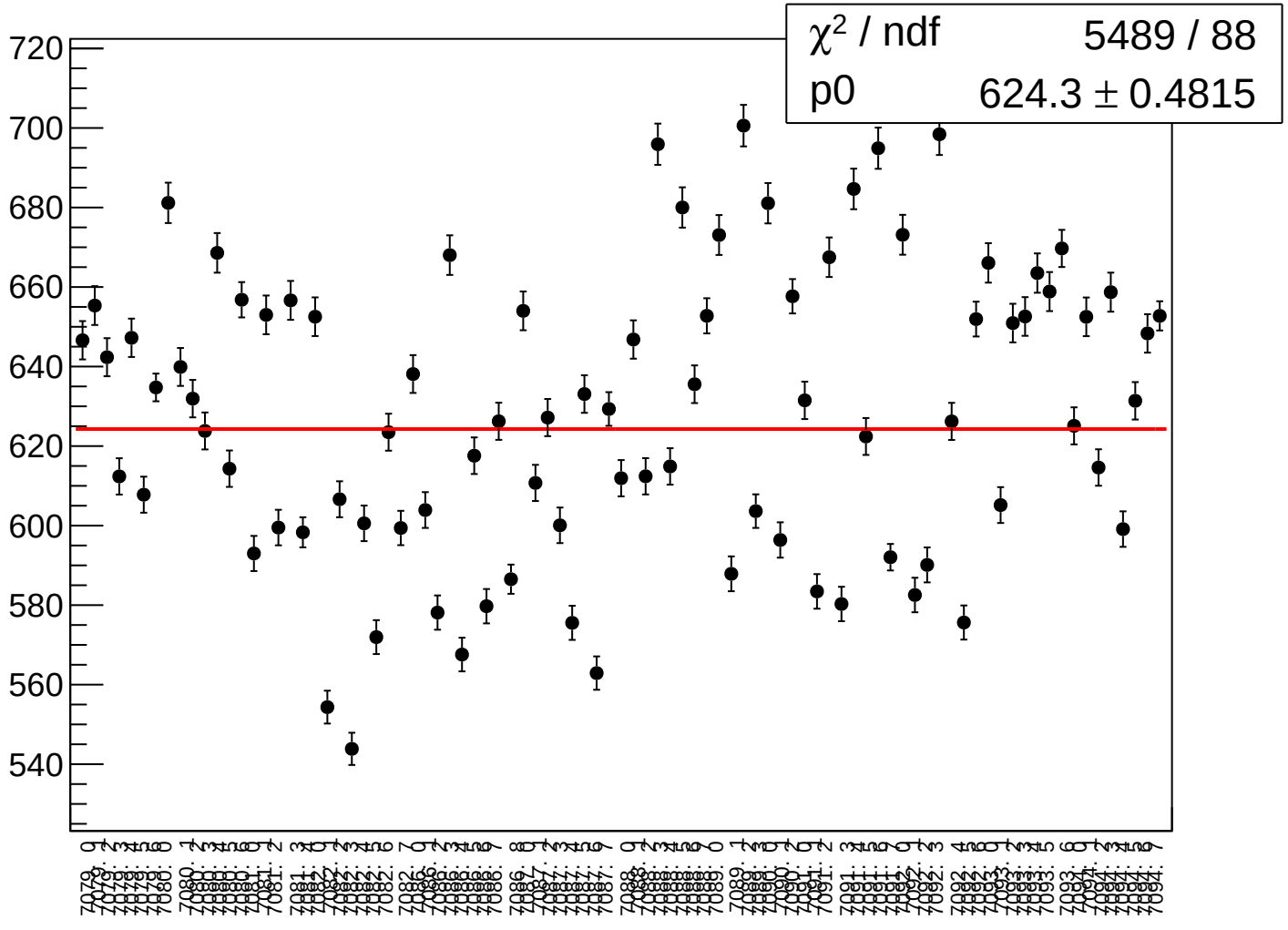

pull1D
Entries 89
Mean −0.0009606
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

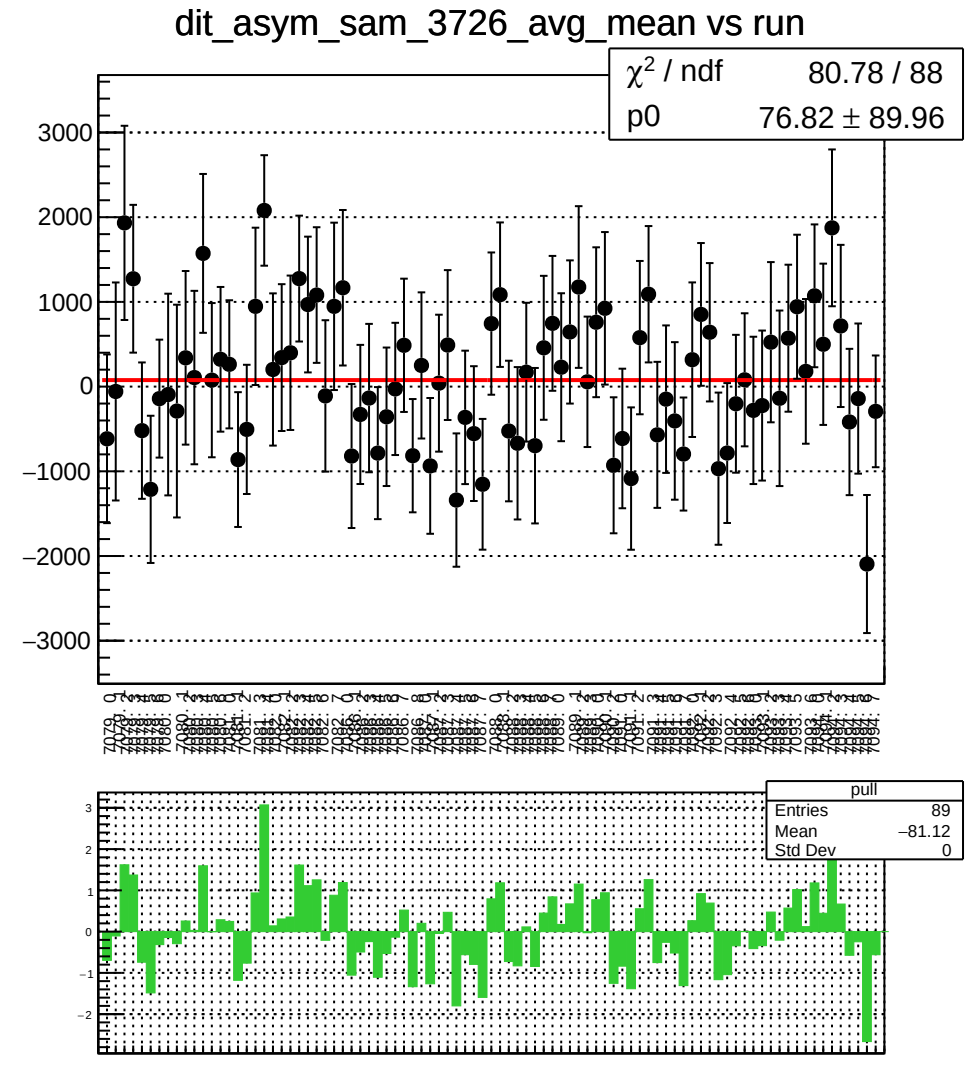

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 5489 / 88
p0 624.3 ± 0.4815
720
700
680
660
640
620
600
580
560
540

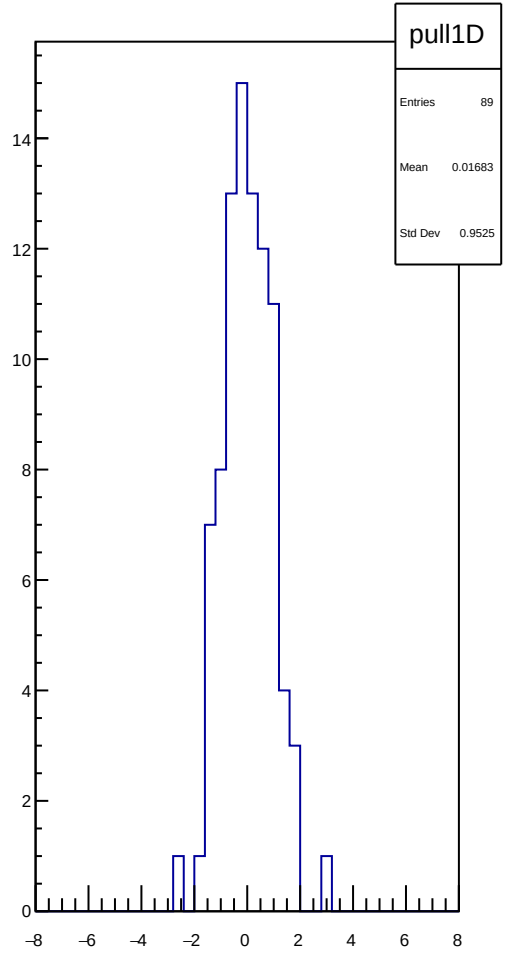

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 77.06 / 88
p0 85.14 ± 71.13
pull
Entries 89
Mean −203.7
Std Dev 0
pull1D
Entries 89
Mean −0.001423
Std Dev 0.9305

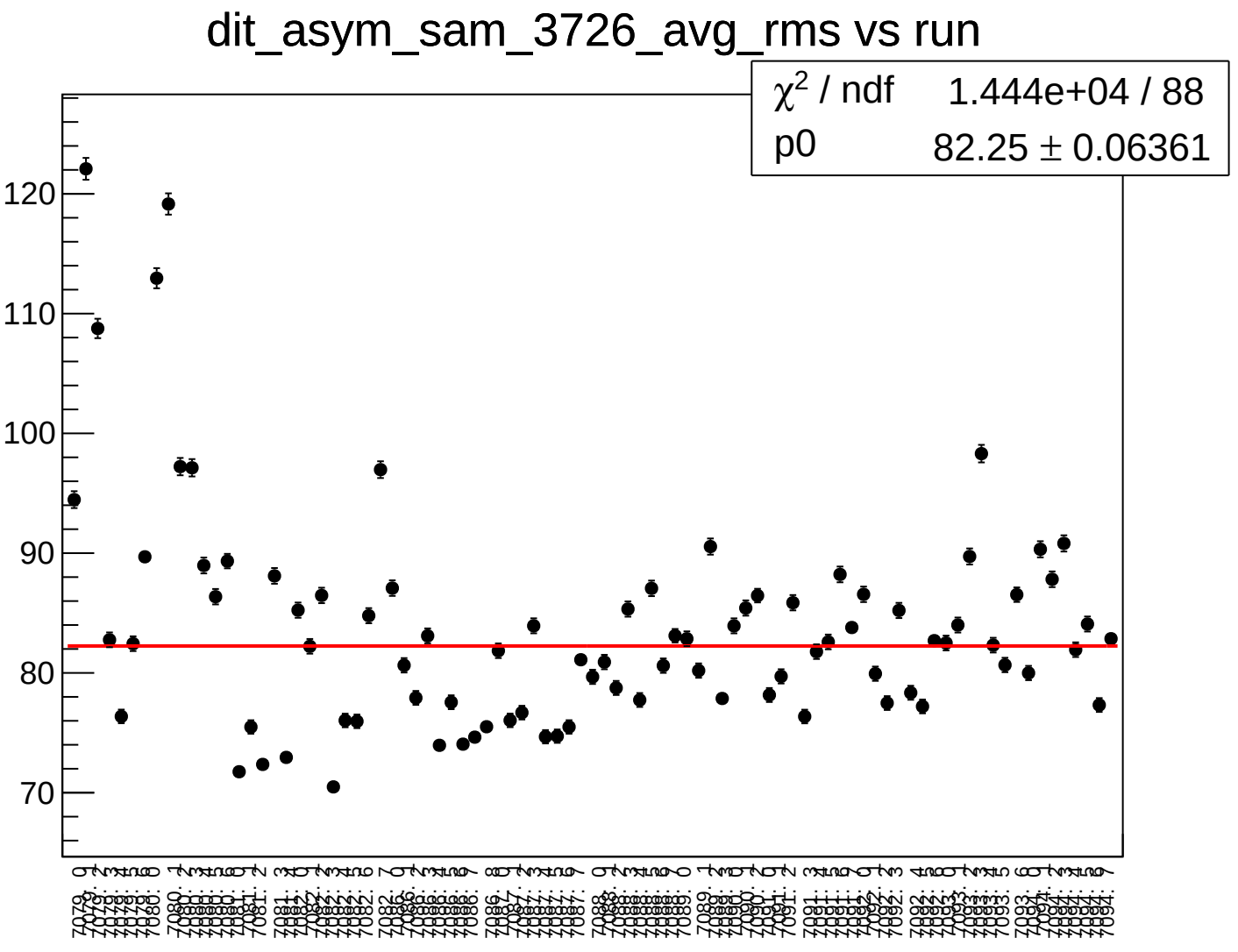

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 5340 / 88
p0 65.21 ± 0.05029
76
74
72
70
68
66
64
62
60
58

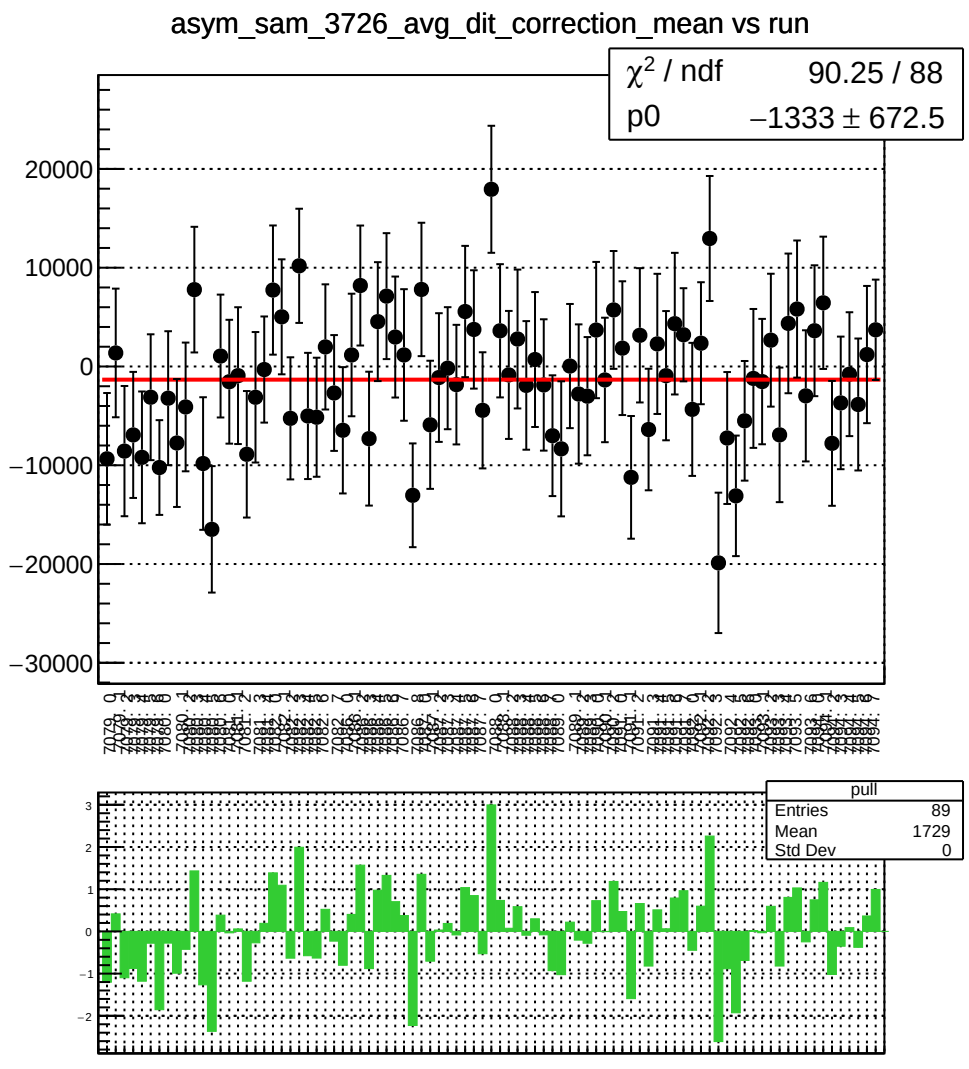

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.28 / 88
p0 −1316 ± 681
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −4166
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0009606
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

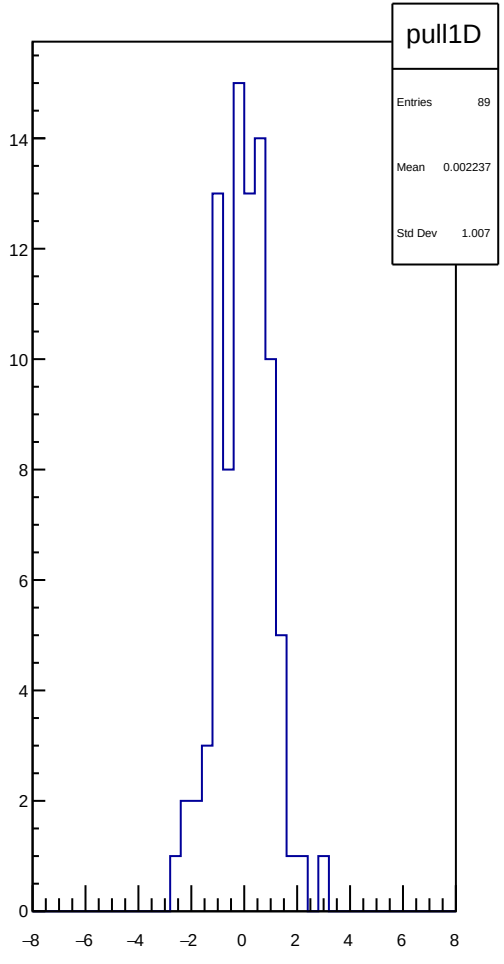

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 5489 / 88
p0 624.3 ± 0.4815
720
700
680
660
640
620
600
580
560
540

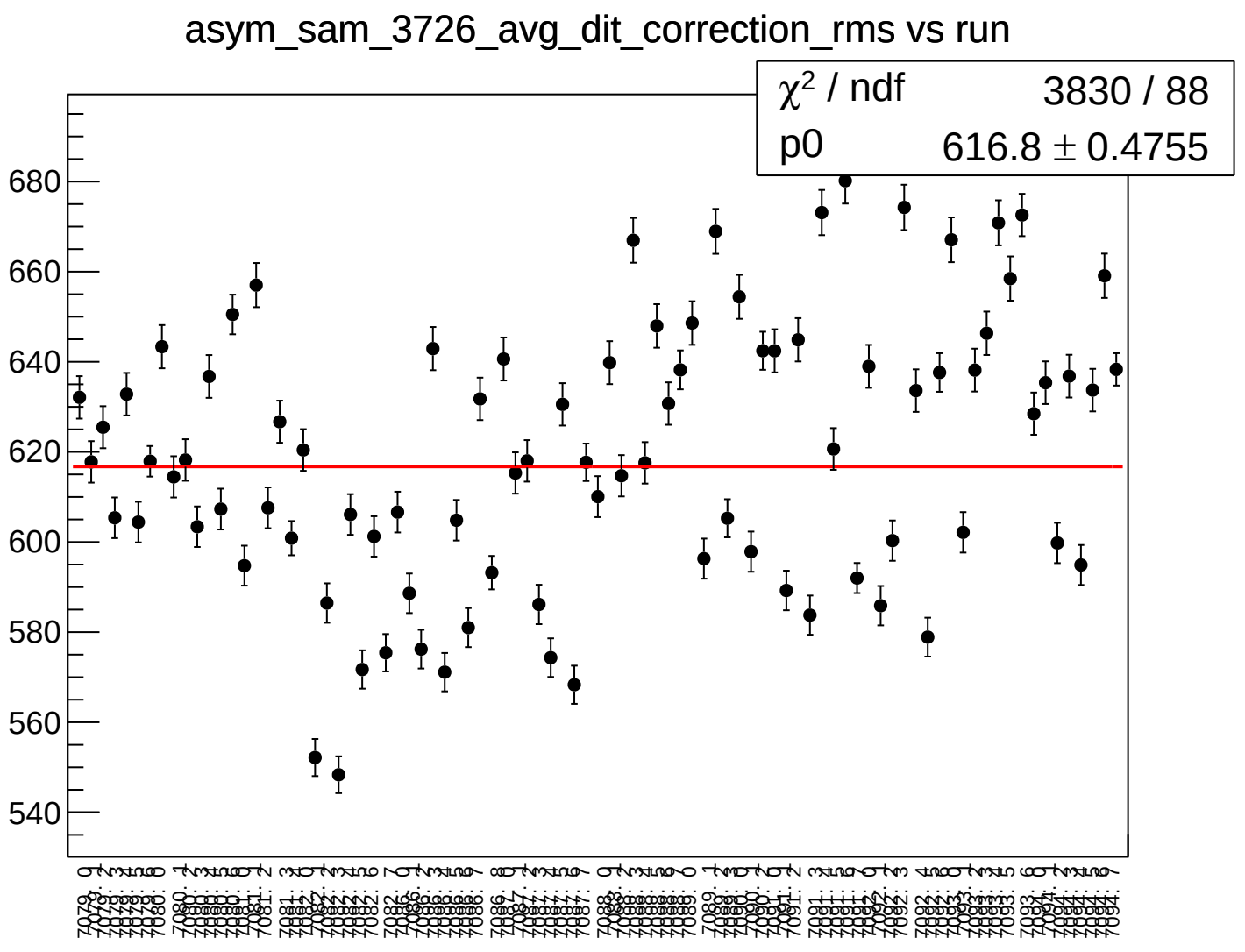

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 80.78 / 88
p0 76.82 ± 89.96
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −81.12
Std Dev 0
3
2
1
0
−1
−2

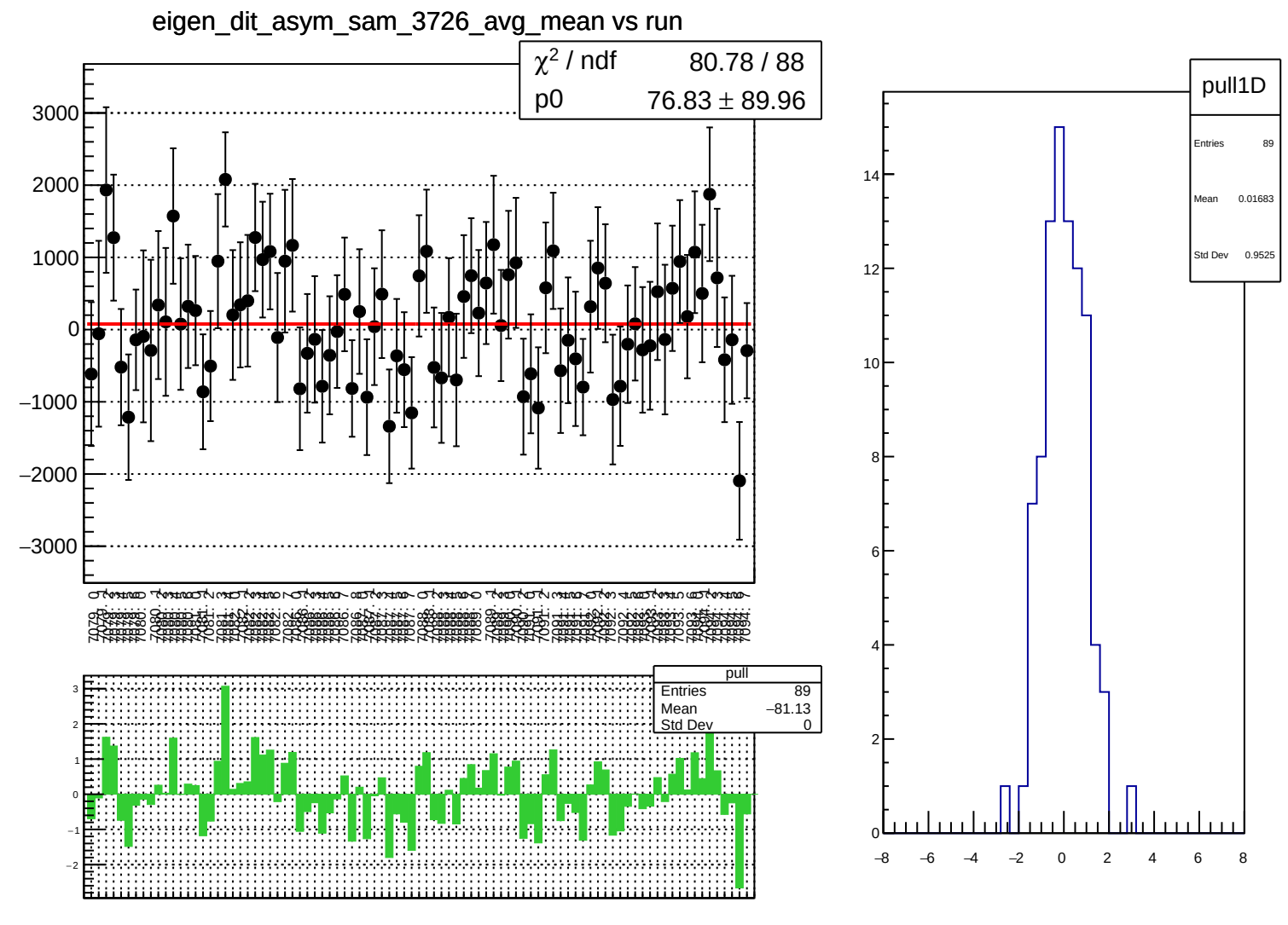

pull1D
Entries 89
Mean 0.01683
Std Dev 0.9525
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

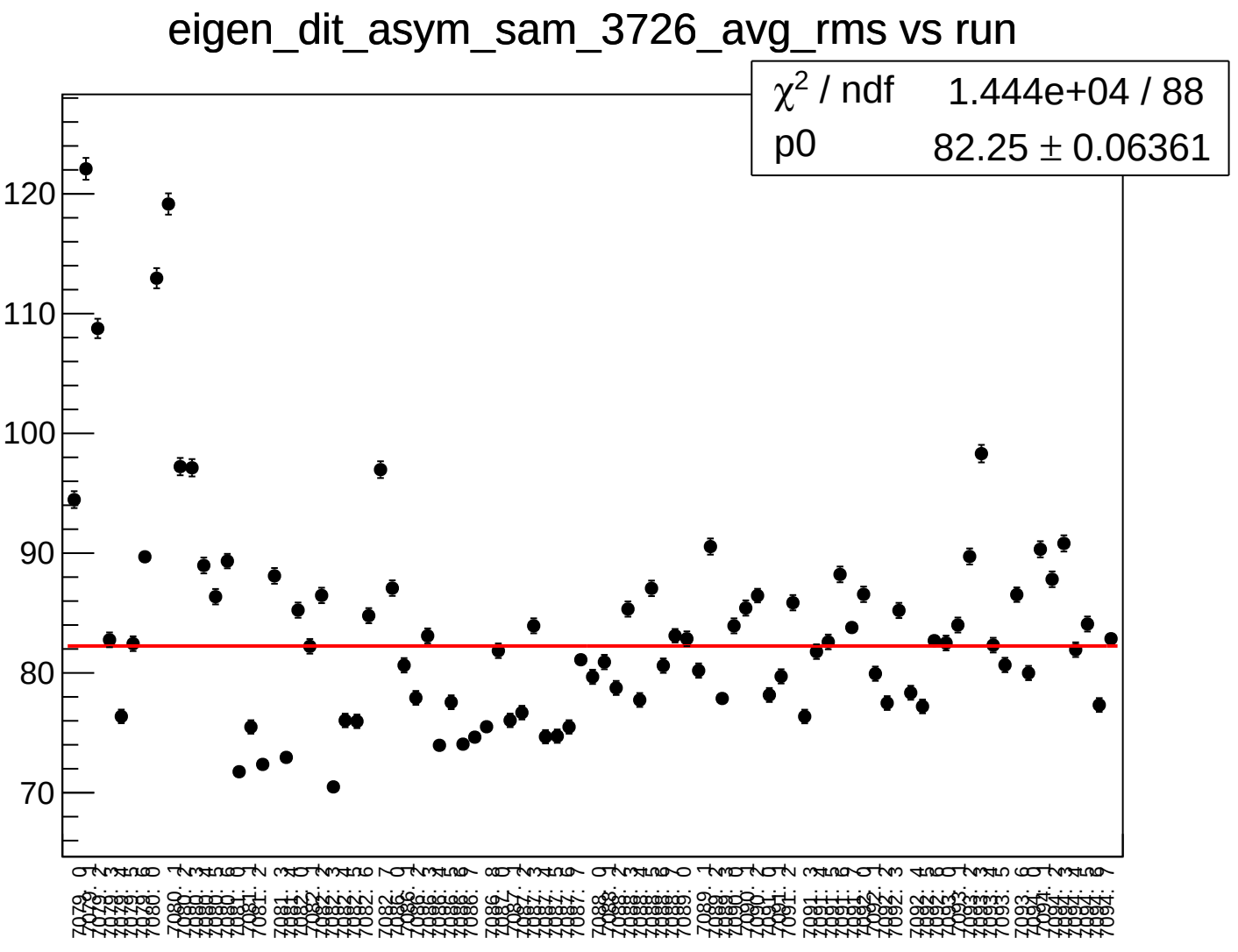

dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.444e+04 / 88
p0 82.25 ± 0.06361
120
110
100
90
80
70

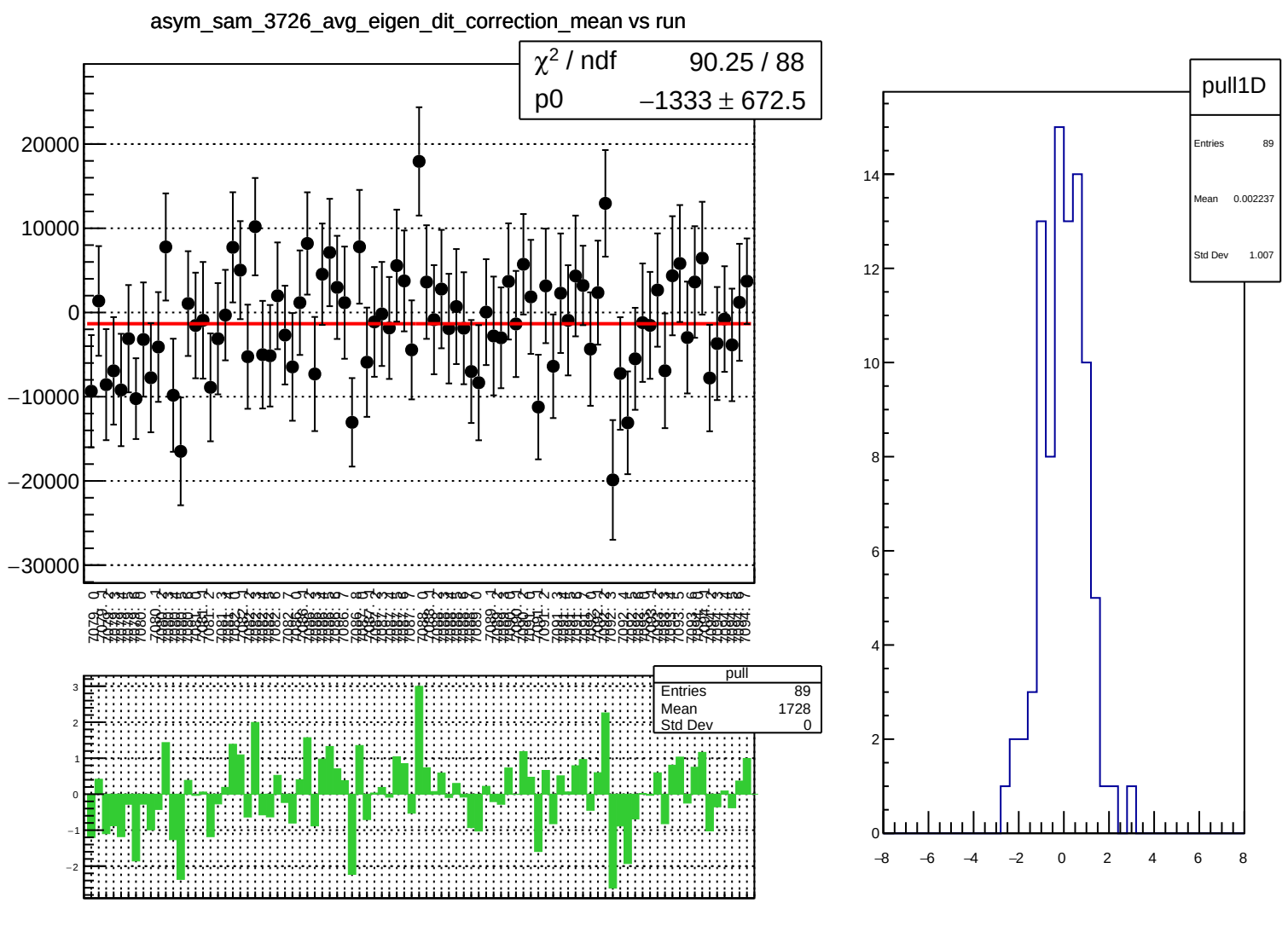

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 90.25 / 88
p0 −1333 ± 672.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1729
Std Dev 0
3
2
1
0
−1
−2

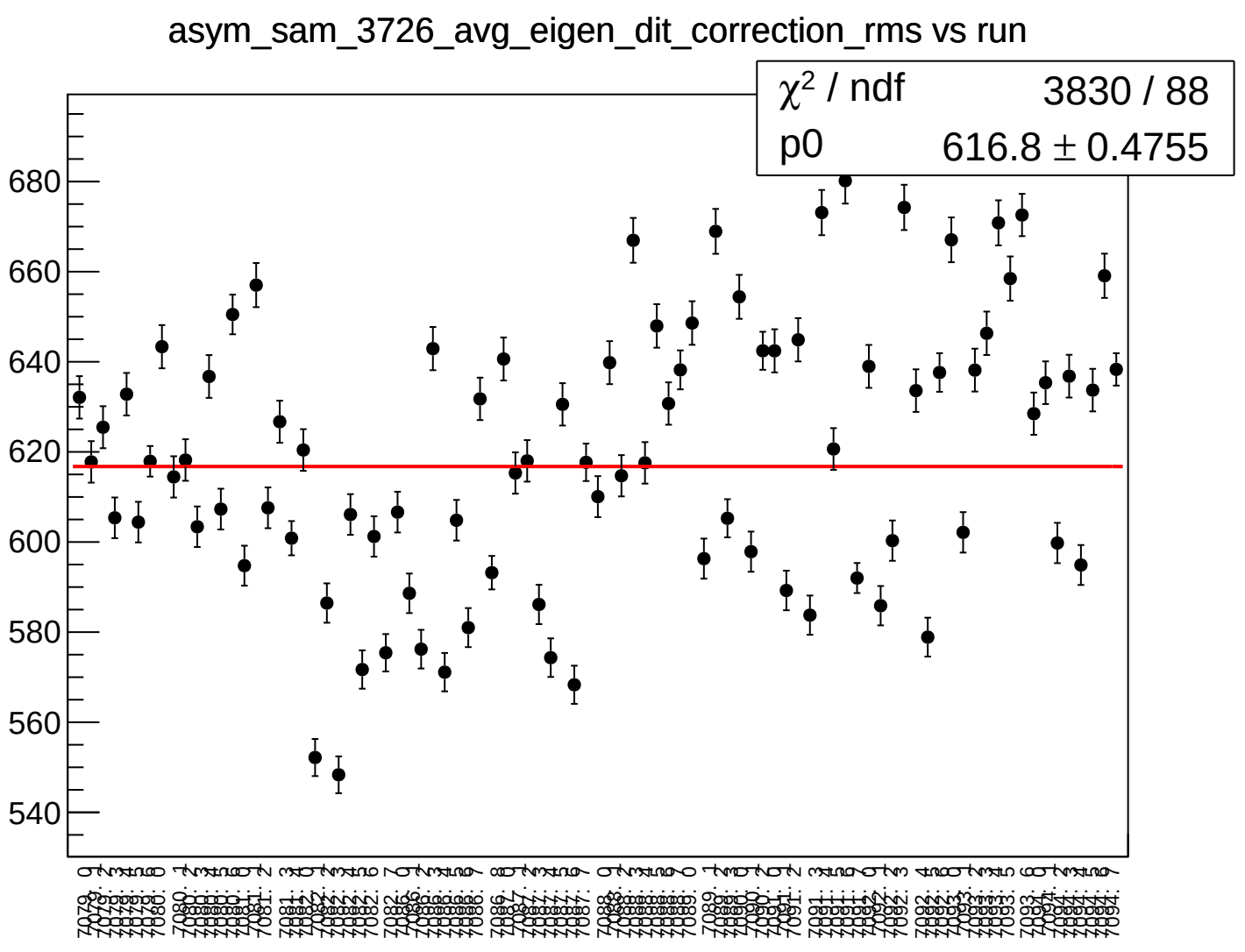

pull1D
Entries 89
Mean 0.002237
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

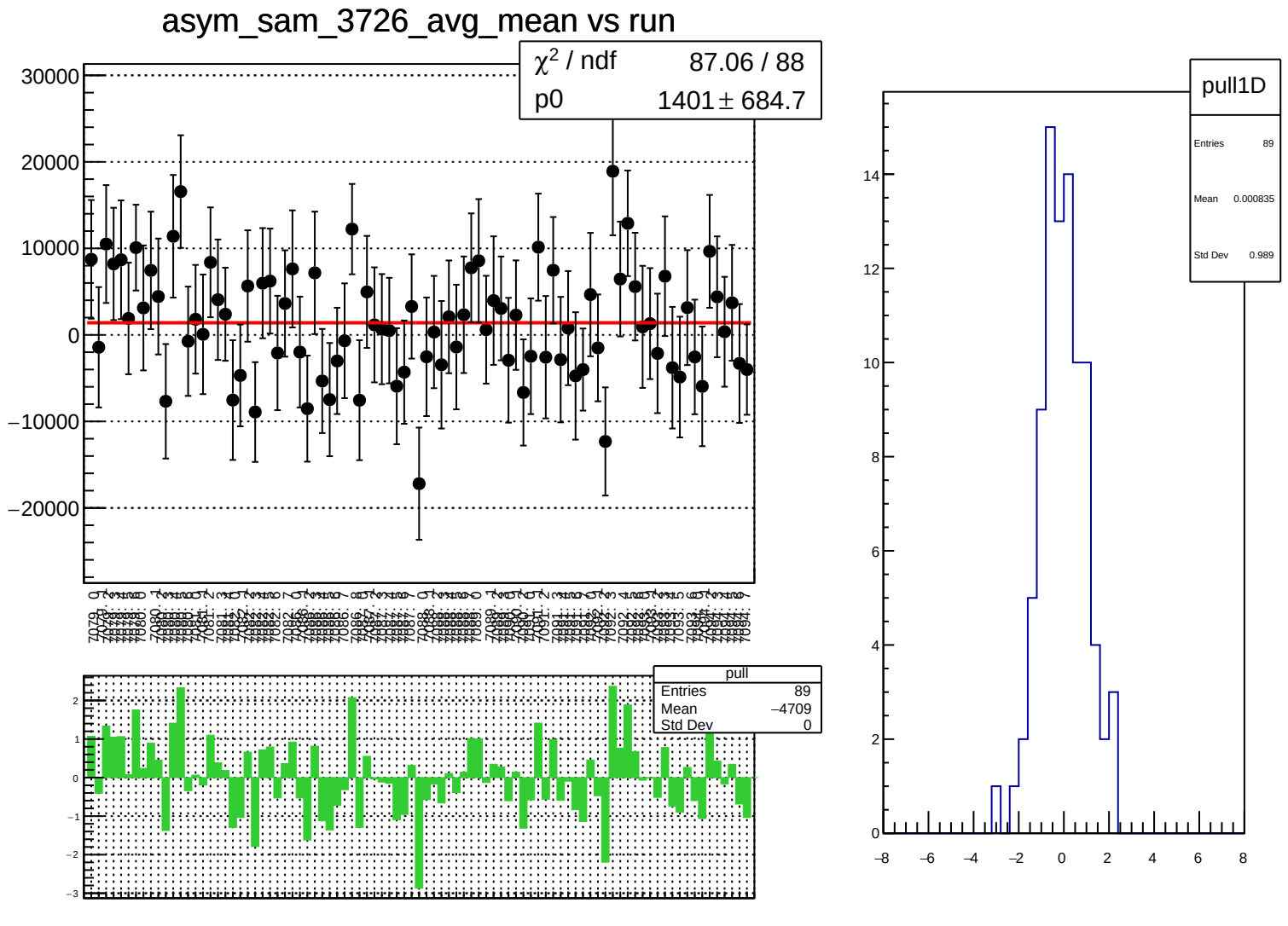

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3830 / 88
p0 616.8 ± 0.4755
680
660
640
620
600
580
560
540

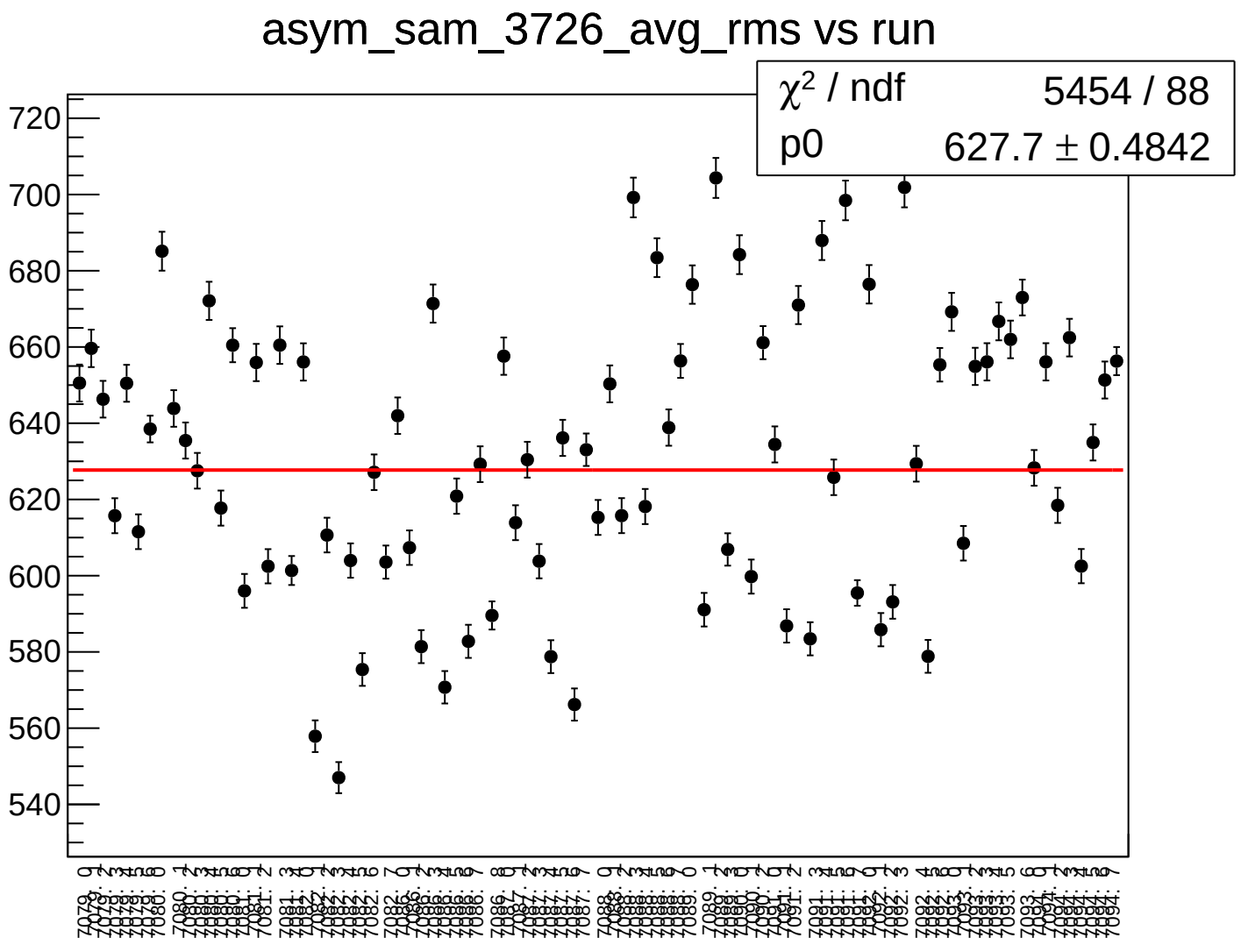

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 80.78 / 88
p0 76.83 ± 89.96
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −81.13
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01683
Std Dev 0.9525
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

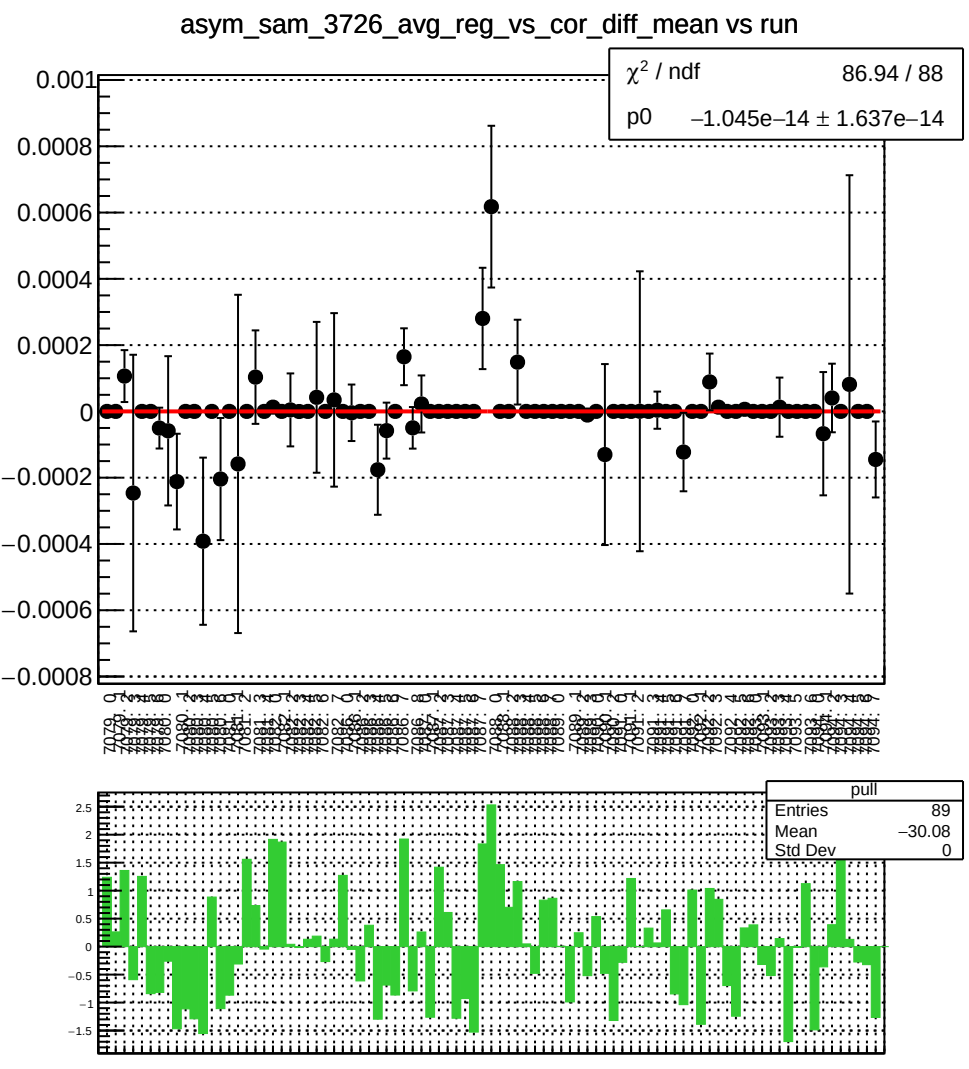

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.444e+04 / 88
p0 82.25 ± 0.06361
120
110
100
90
80
70

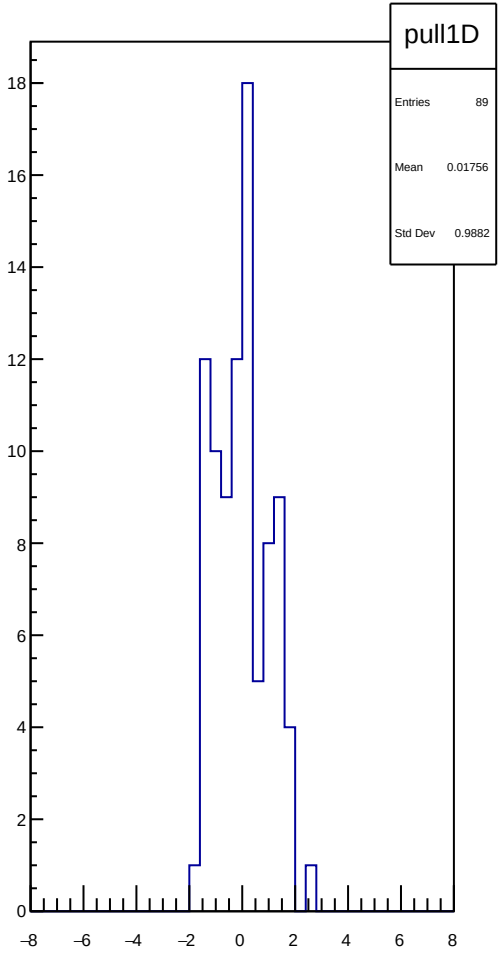

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.25 / 88
p0 −1333 ± 672.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1728
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.002237
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

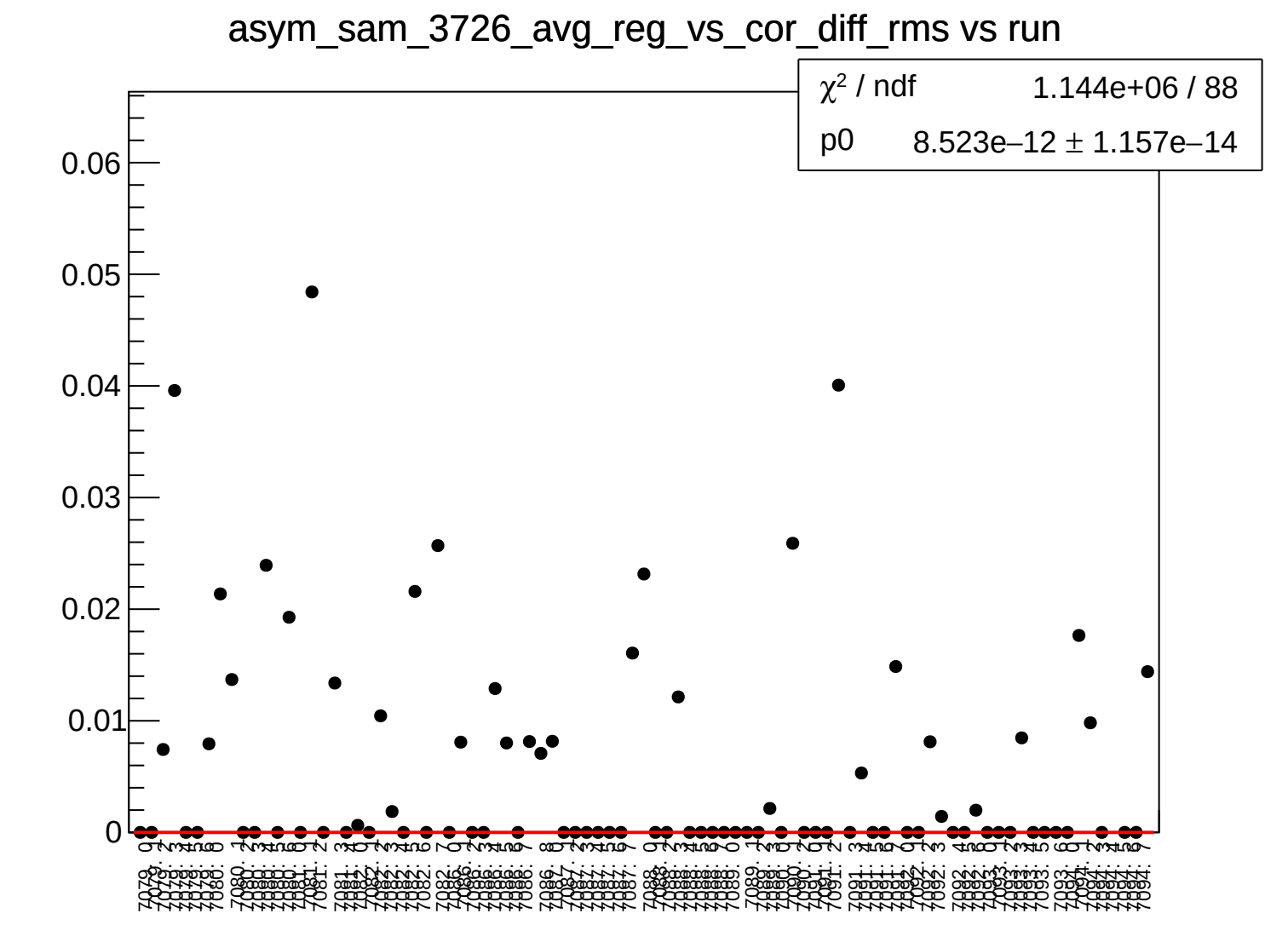

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3830 / 88
p0 616.8 ± 0.4755
680
660
640
620
600
580
560
540

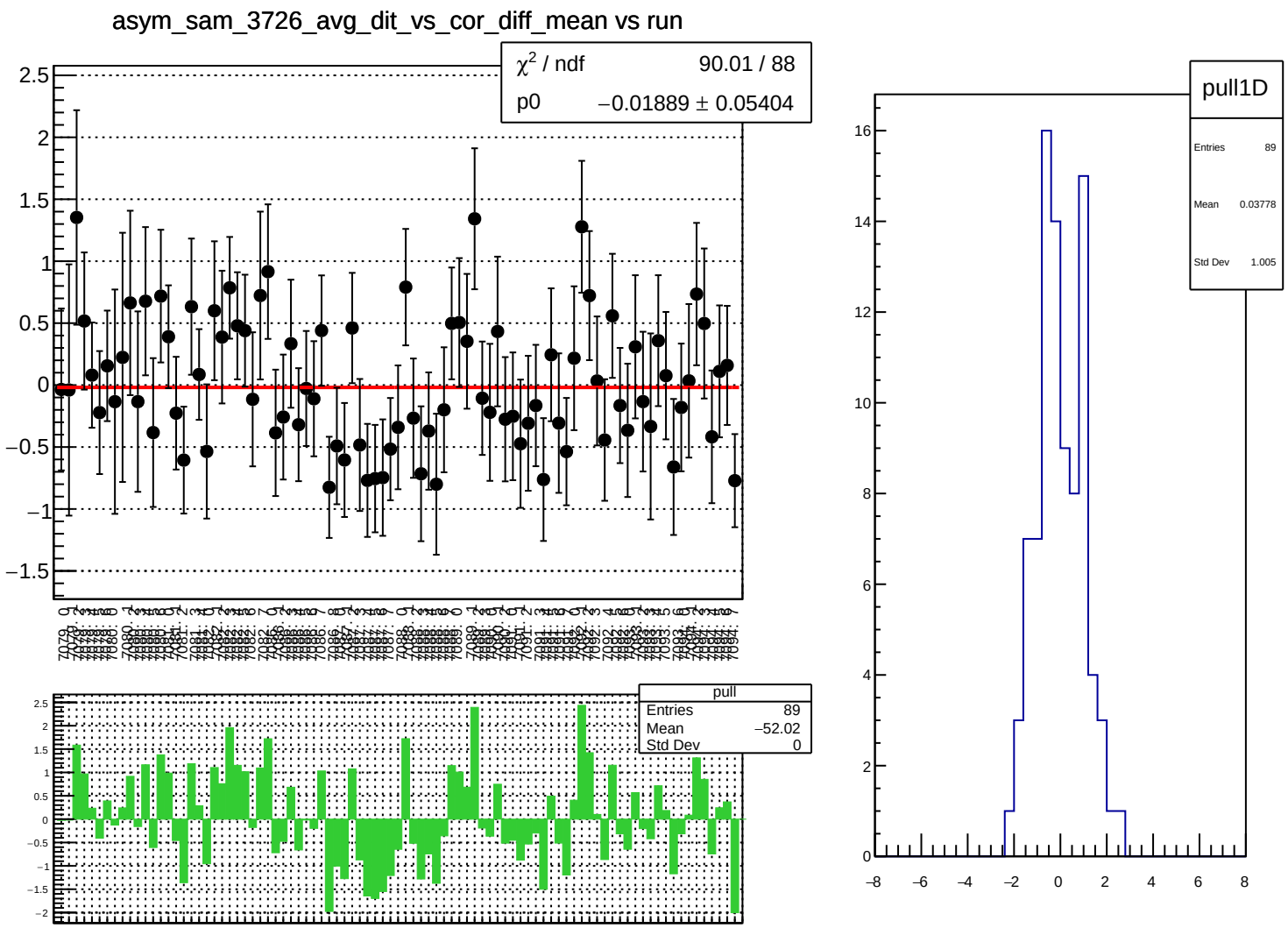

asym_sam_3726_avg_mean vs run
χ² / ndf 87.06 / 88
p0 1401 ± 684.7
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −4709
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.000835
Std Dev 0.989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

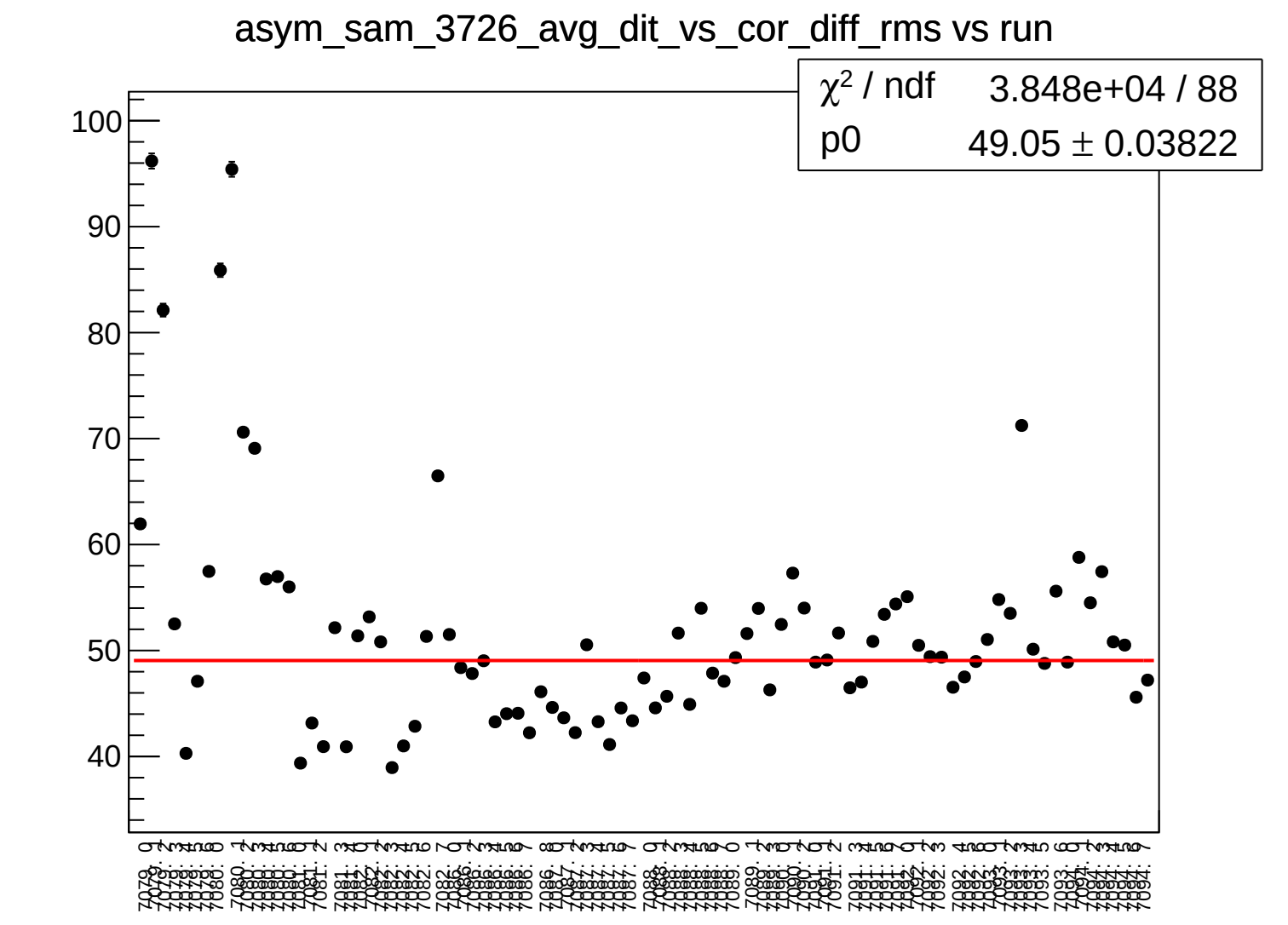

asym_sam_3726_avg_rms vs run
χ² / ndf 5454 / 88
p0 627.7 ± 0.4842
720
700
680
660
640
620
600
580
560
540

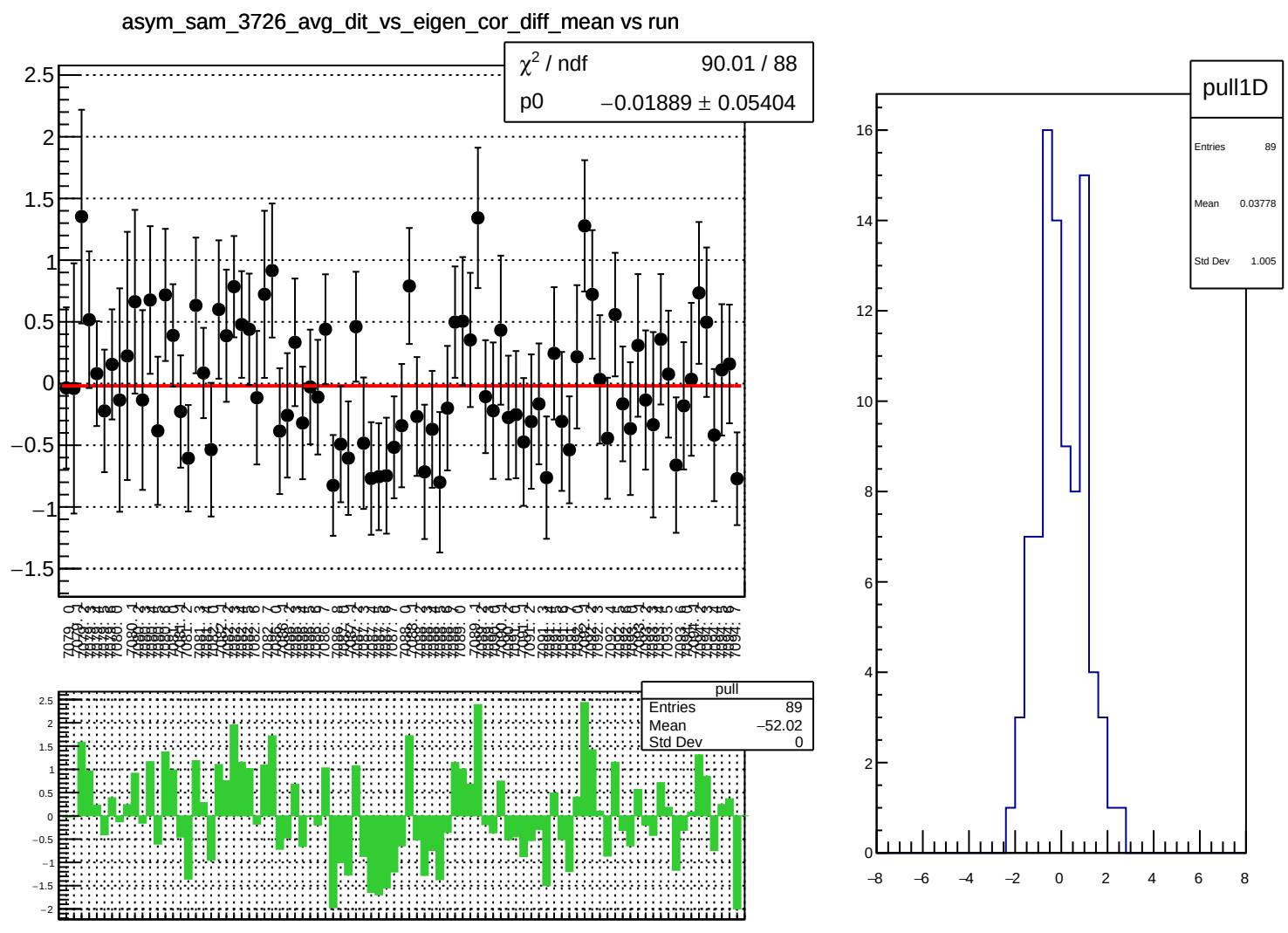

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.94 / 88
p0 −1.045e−14 ± 1.637e−14
pull
Entries 89
Mean −30.08
Std Dev 0

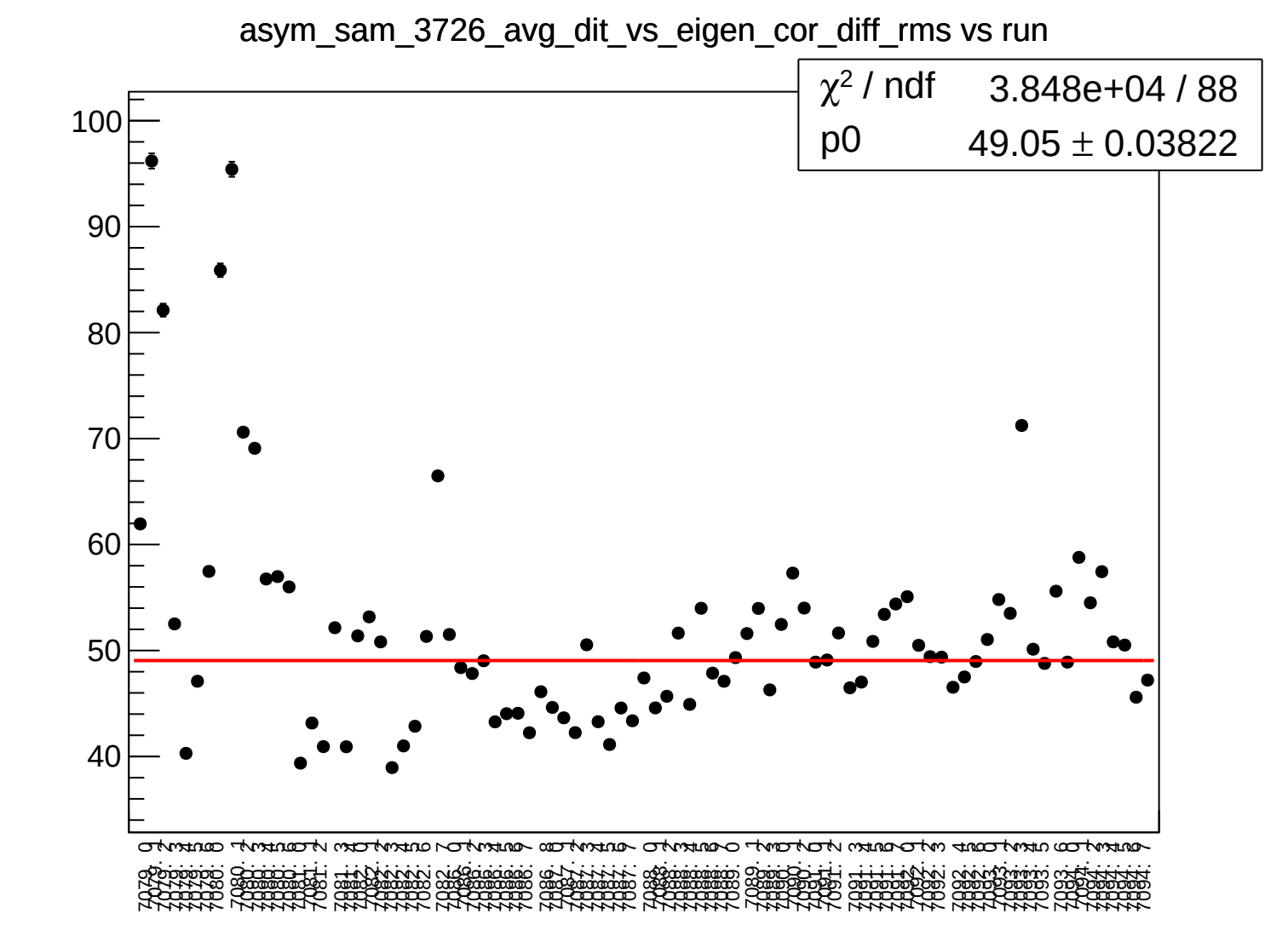

pull1D
Entries 89
Mean 0.01756
Std Dev 0.9882

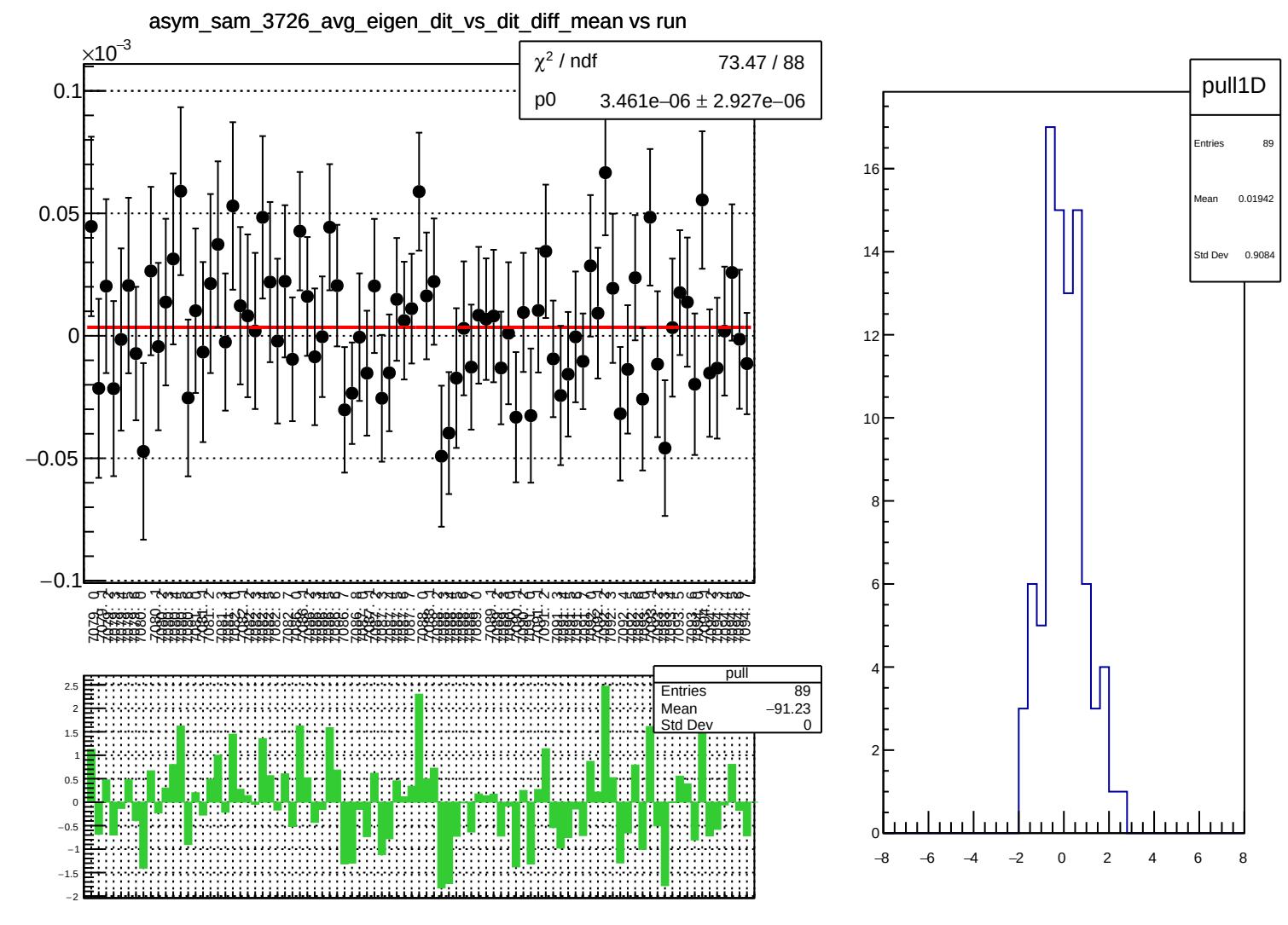

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.144e+06 / 88
p0 8.523e−12 ± 1.157e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

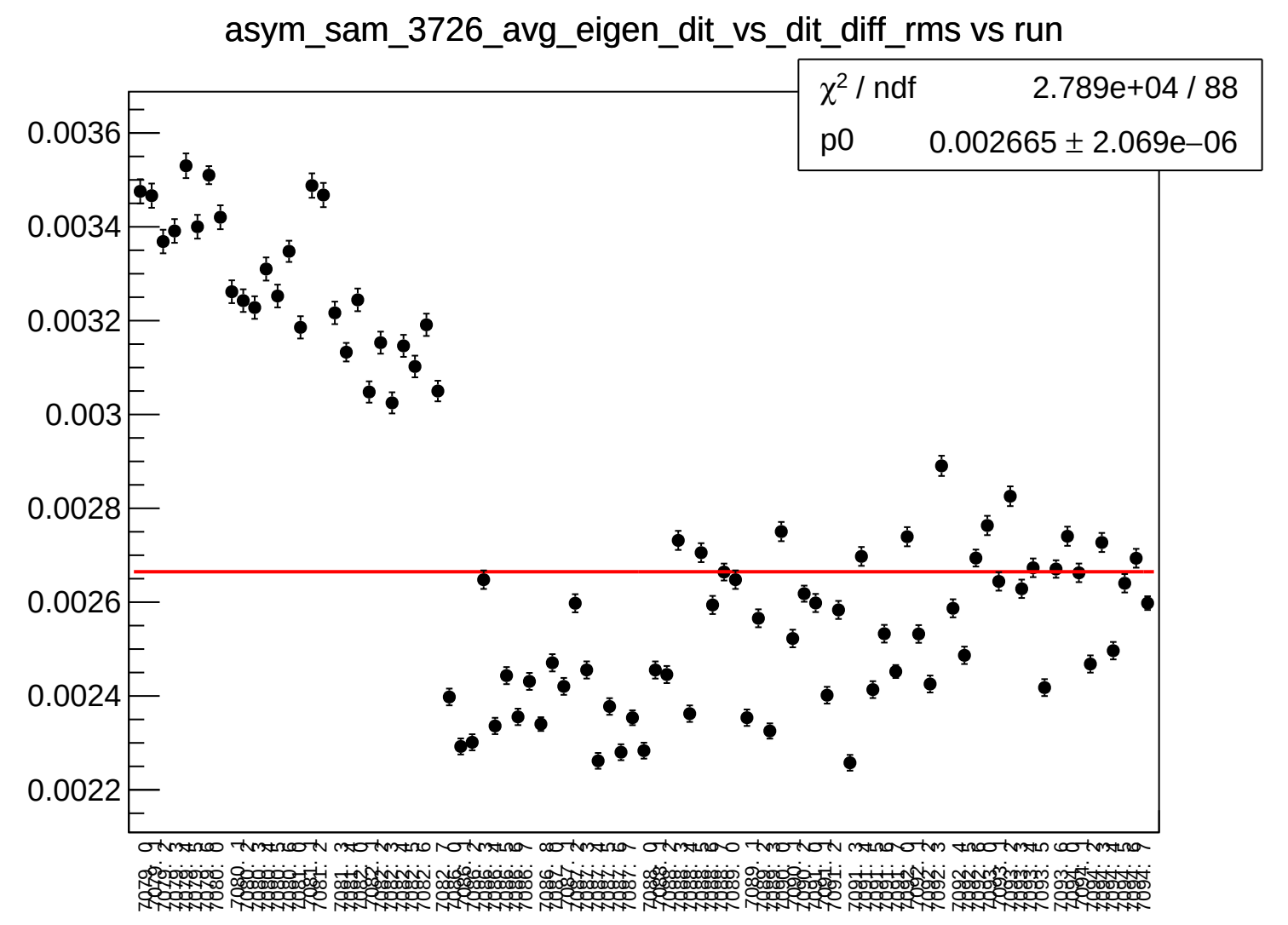

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.01 / 88
p0 −0.01889 ± 0.05404
pull
Entries 89
Mean −52.02
Std Dev 0
pull1D
Entries 89
Mean 0.03778
Std Dev 1.005

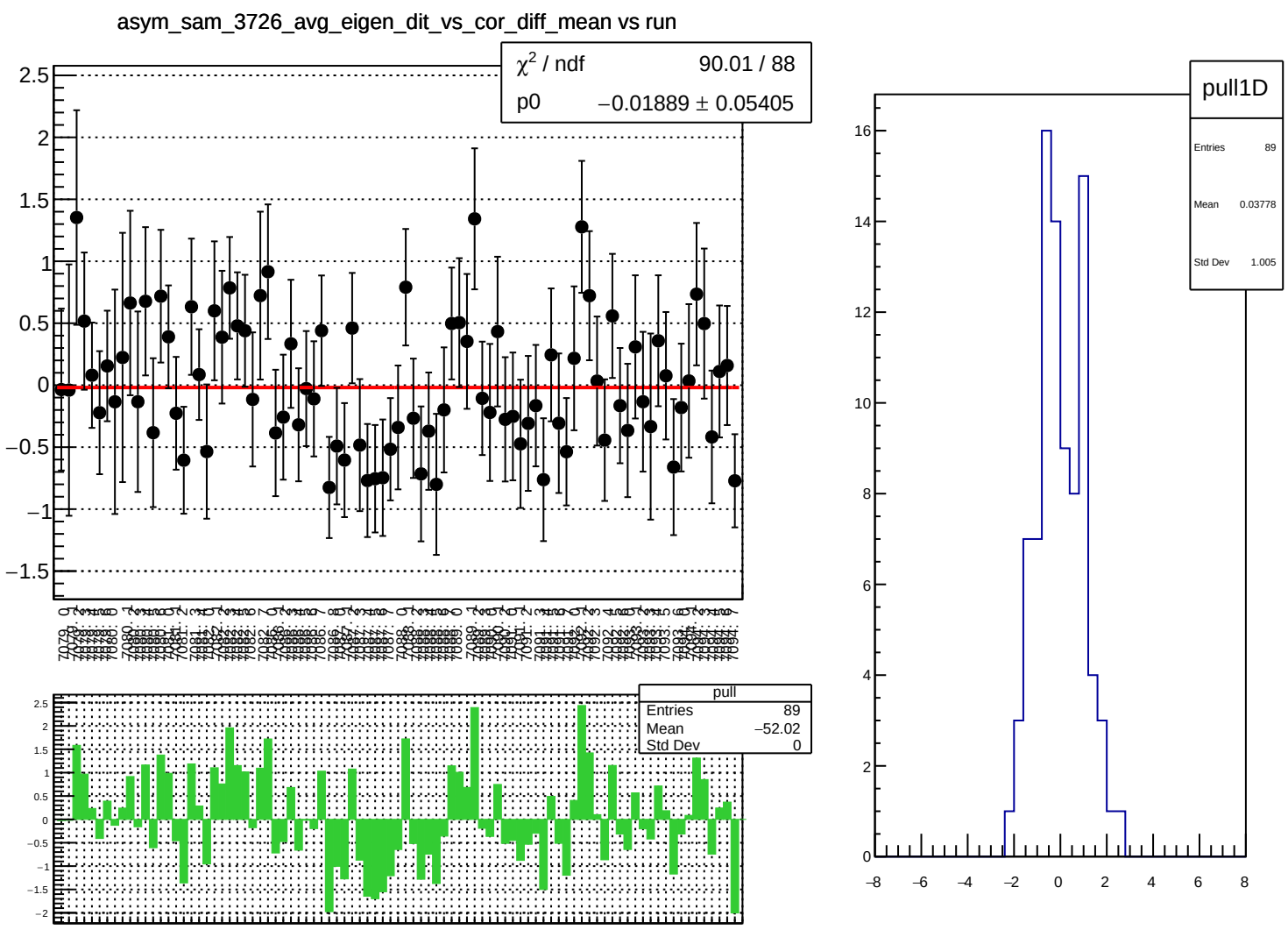

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.848e+04 / 88
p0 49.05 ± 0.03822
100
90
80
70
60
50
40

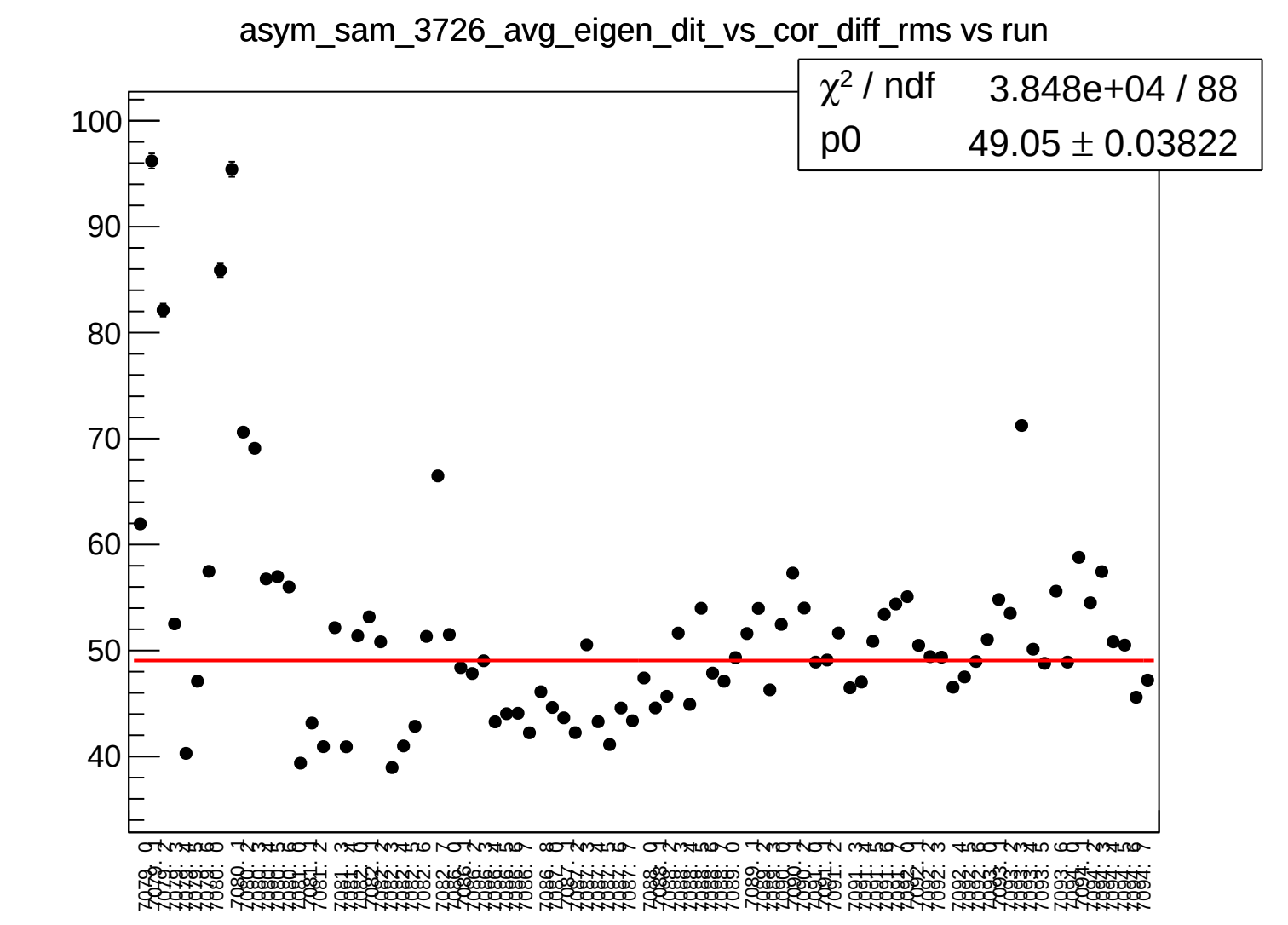

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.01 / 88
p0 −0.01889 ± 0.05404
pull
Entries 89
Mean −52.02
Std Dev 0
pull1D
Entries 89
Mean 0.03778
Std Dev 1.005

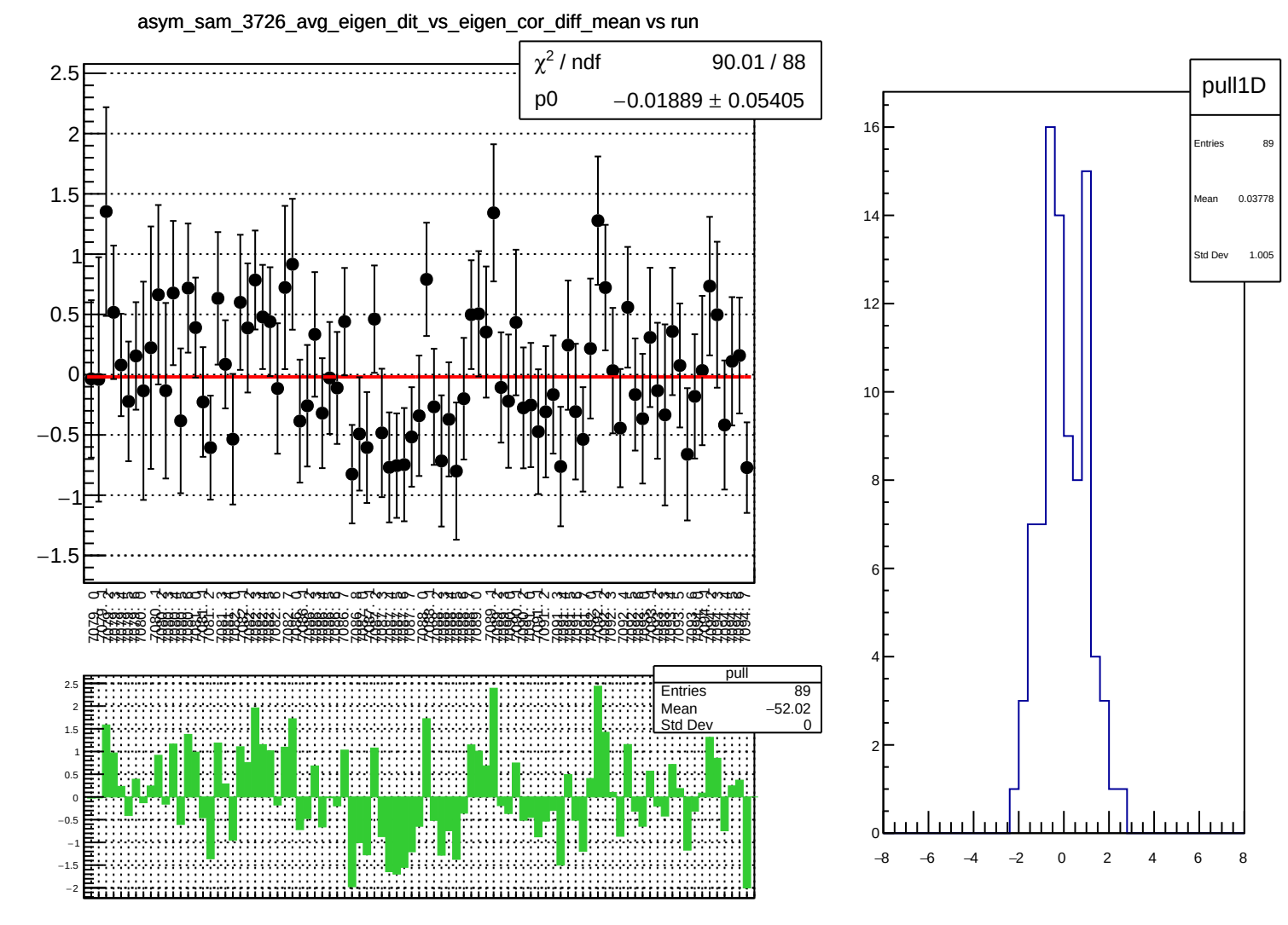

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.848e+04 / 88
p0 49.05 ± 0.03822
100
90
80
70
60
50
40

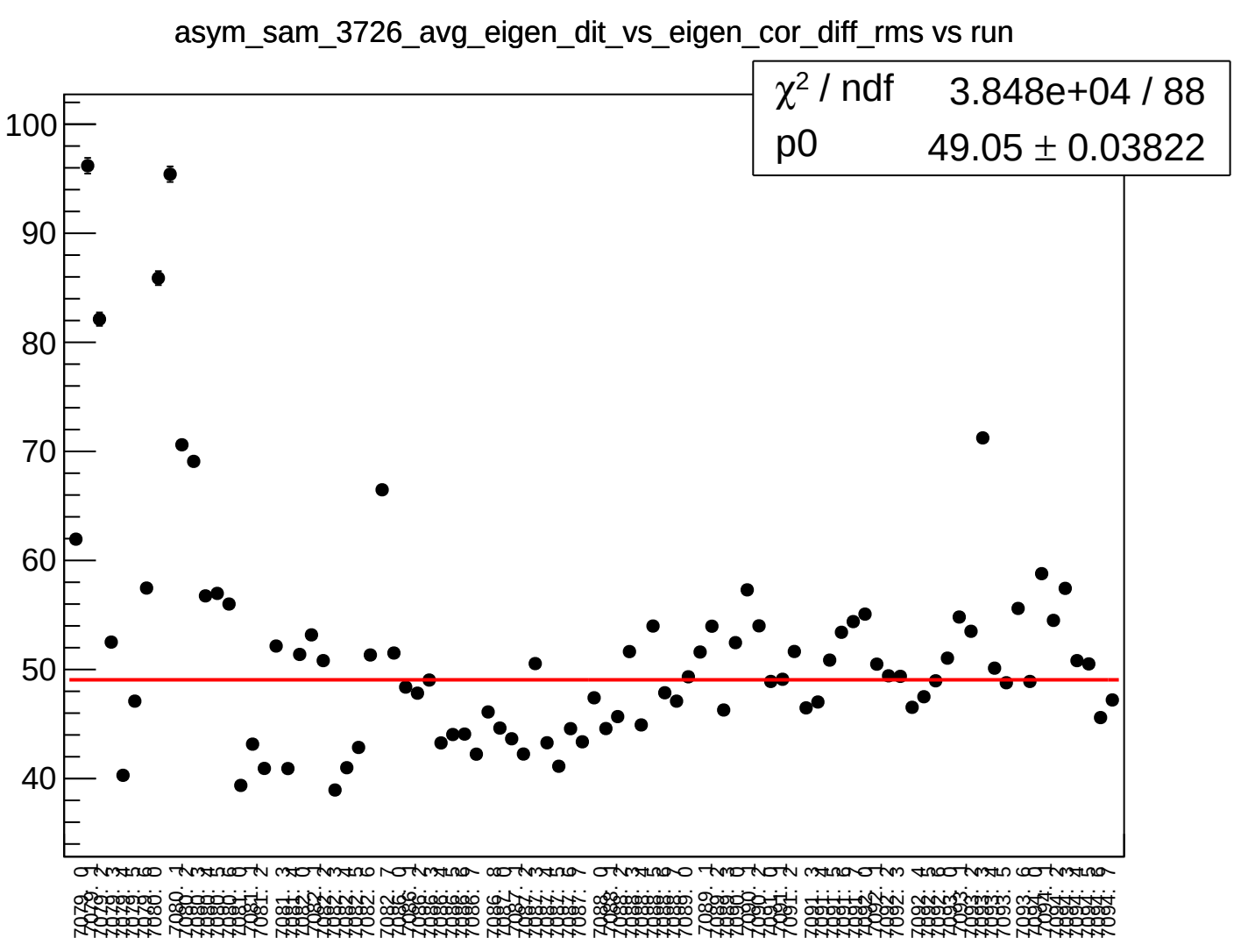

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.47 / 88
p0 3.461e−06 ± 2.927e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −91.23
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01942
Std Dev 0.9084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

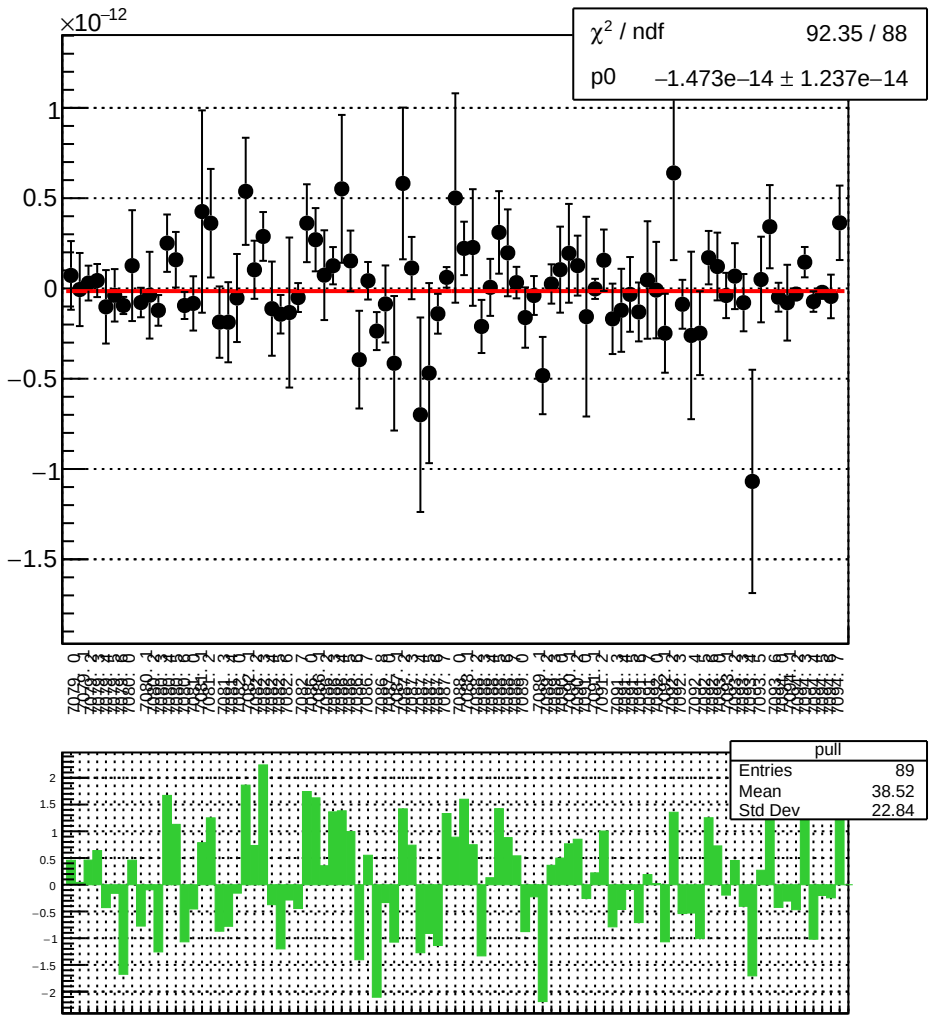

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.789e+04 / 88
p0 0.002665 ± 2.069e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

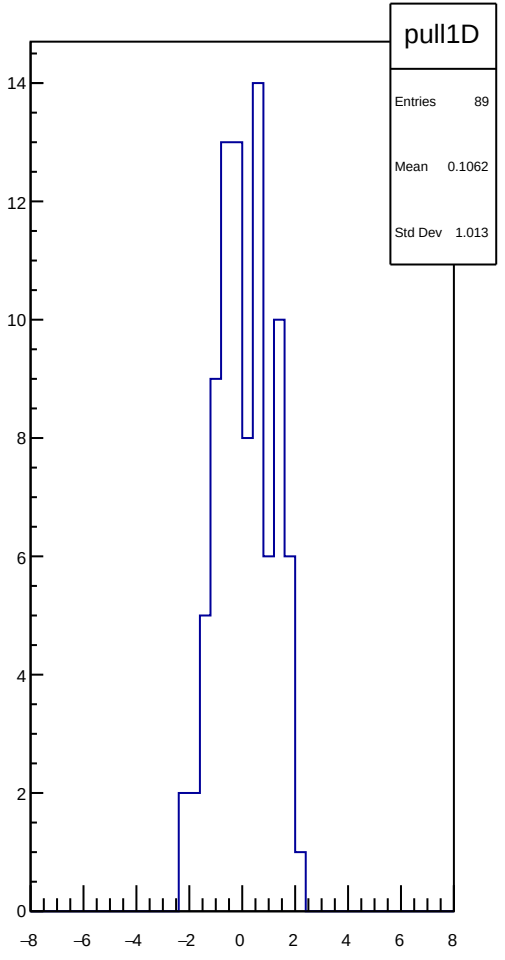

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.01 / 88
p0 −0.01889 ± 0.05405
pull
Entries 89
Mean −52.02
Std Dev 0
pull1D
Entries 89
Mean 0.03778
Std Dev 1.005

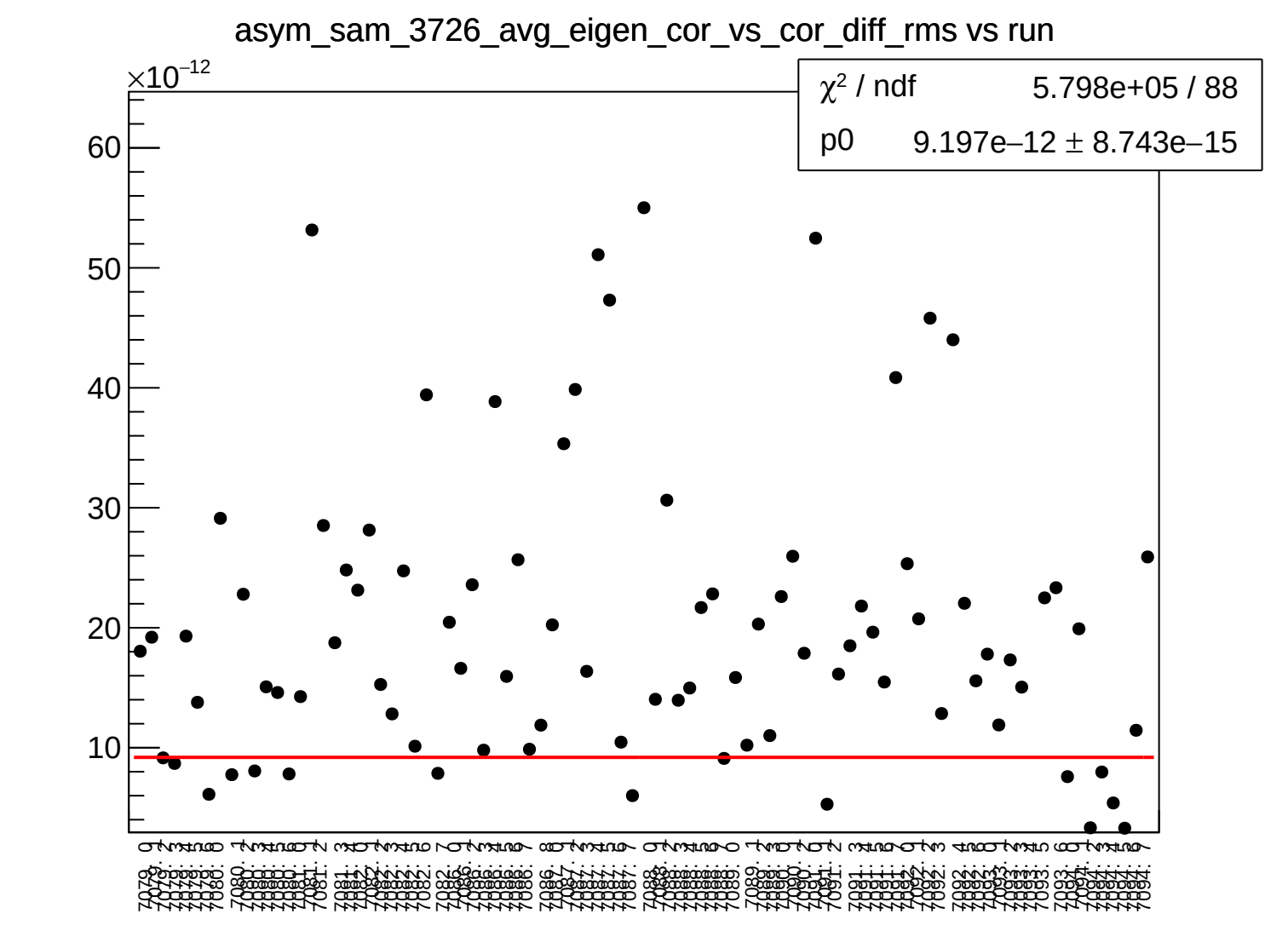

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.848e+04 / 88
p0 49.05 ± 0.03822
100
90
80
70
60
50
40

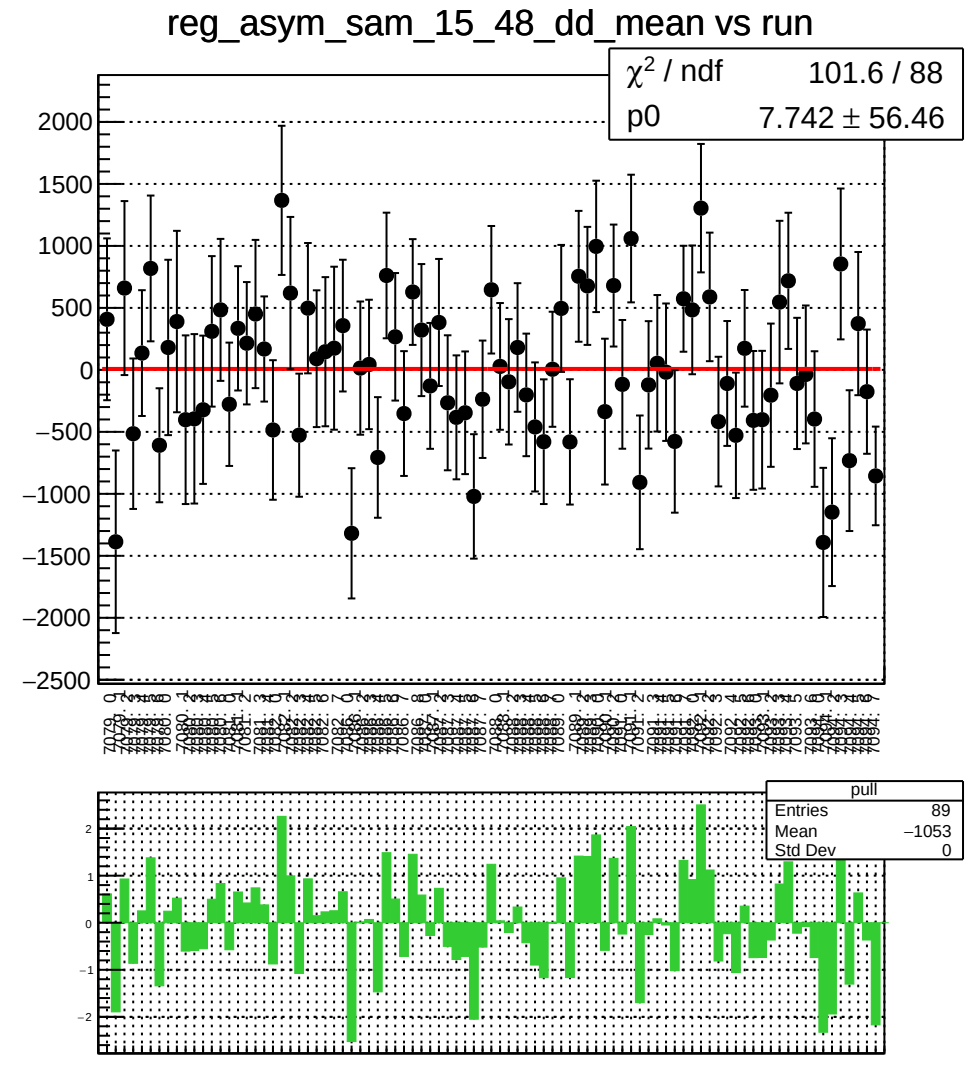

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.01 / 88
p0 −0.01889 ± 0.05405
pull
Entries 89
Mean −52.02
Std Dev 0
pull1D
Entries 89
Mean 0.03778
Std Dev 1.005

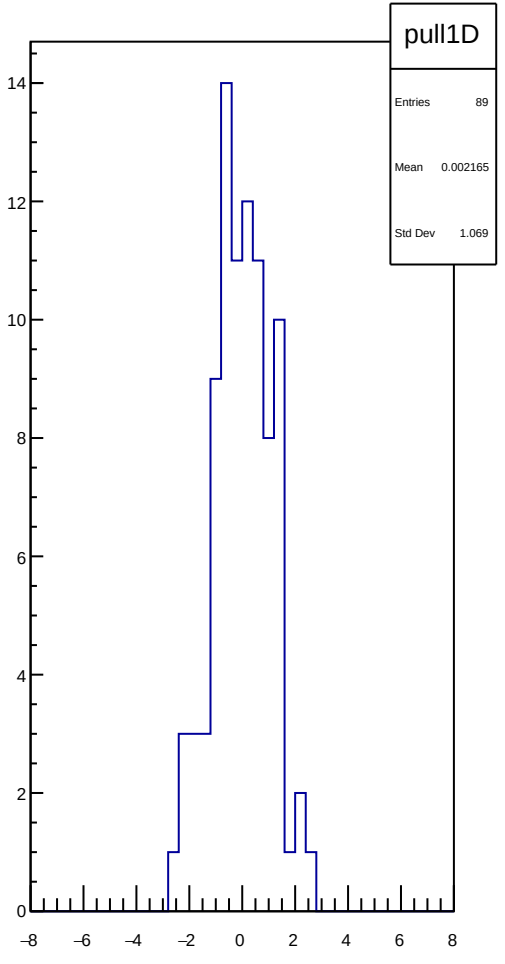

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.848e+04 / 88
p0 49.05 ± 0.03822
100
90
80
70
60
50
40

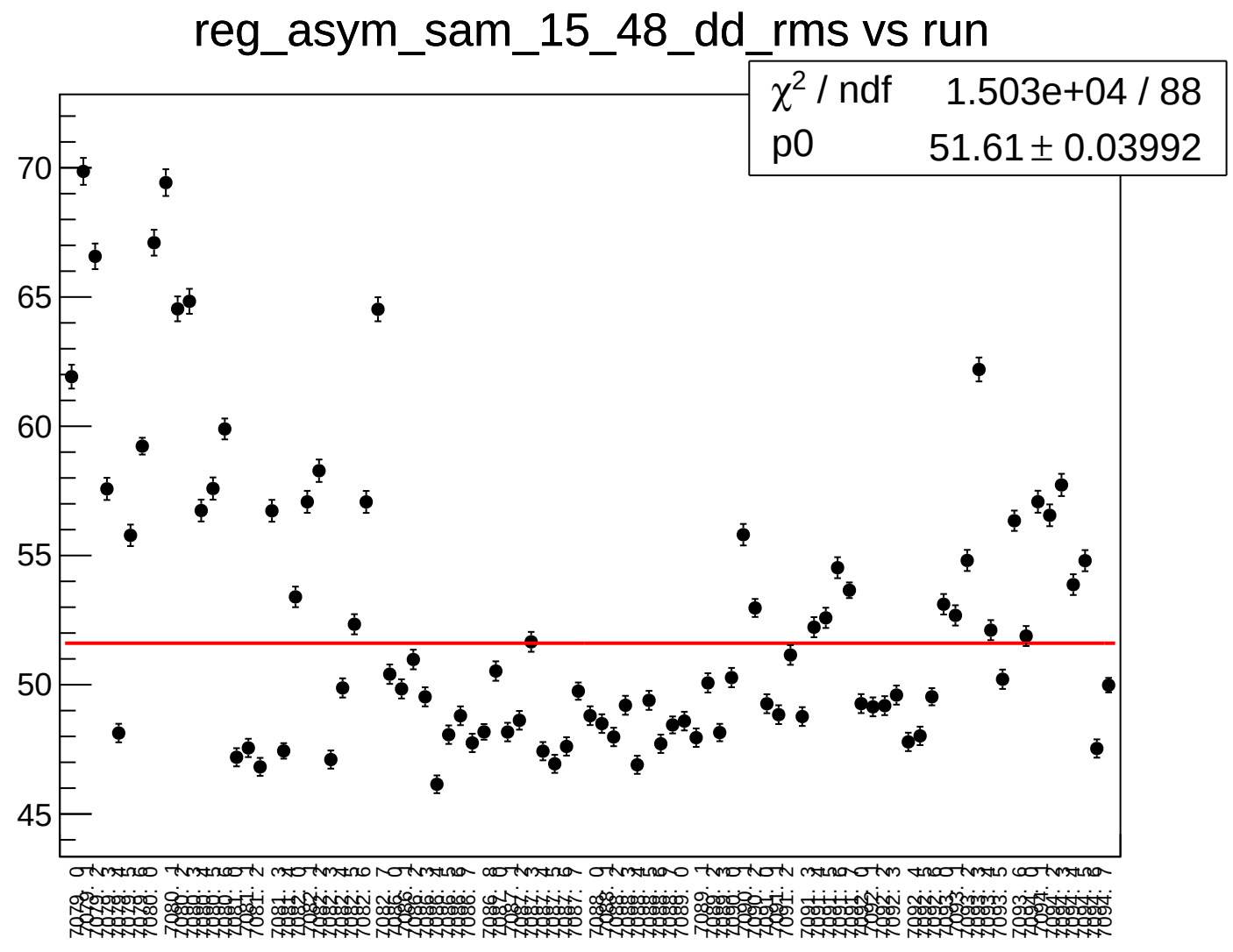

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.35 / 88
p0 −1.473e−14 ± 1.237e−14
1
0.5
0
−0.5
−1
−1.5
pull
Entries 89
Mean 38.52
Std Dev 22.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

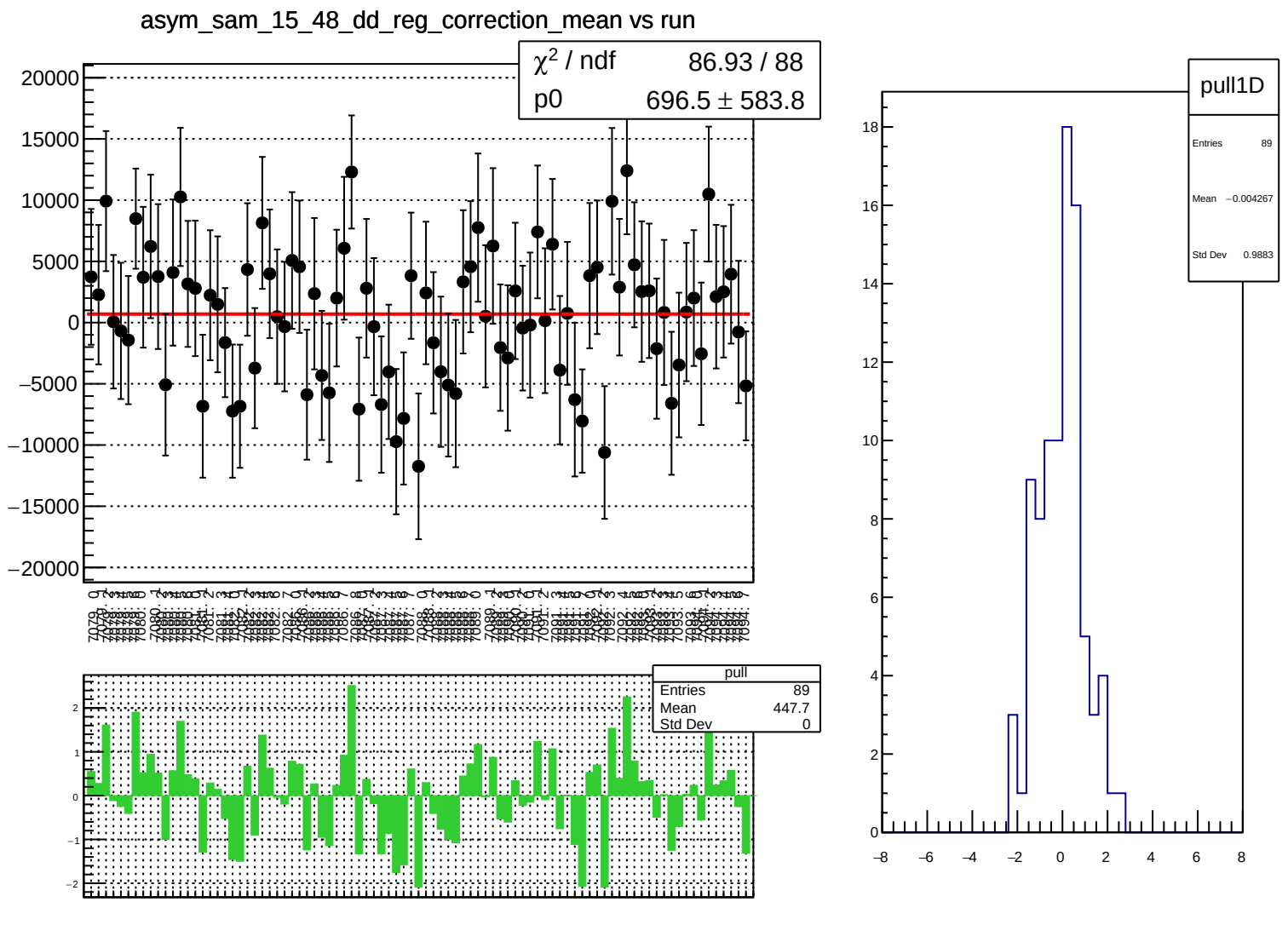

pull1D
Entries 89
Mean 0.1062
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

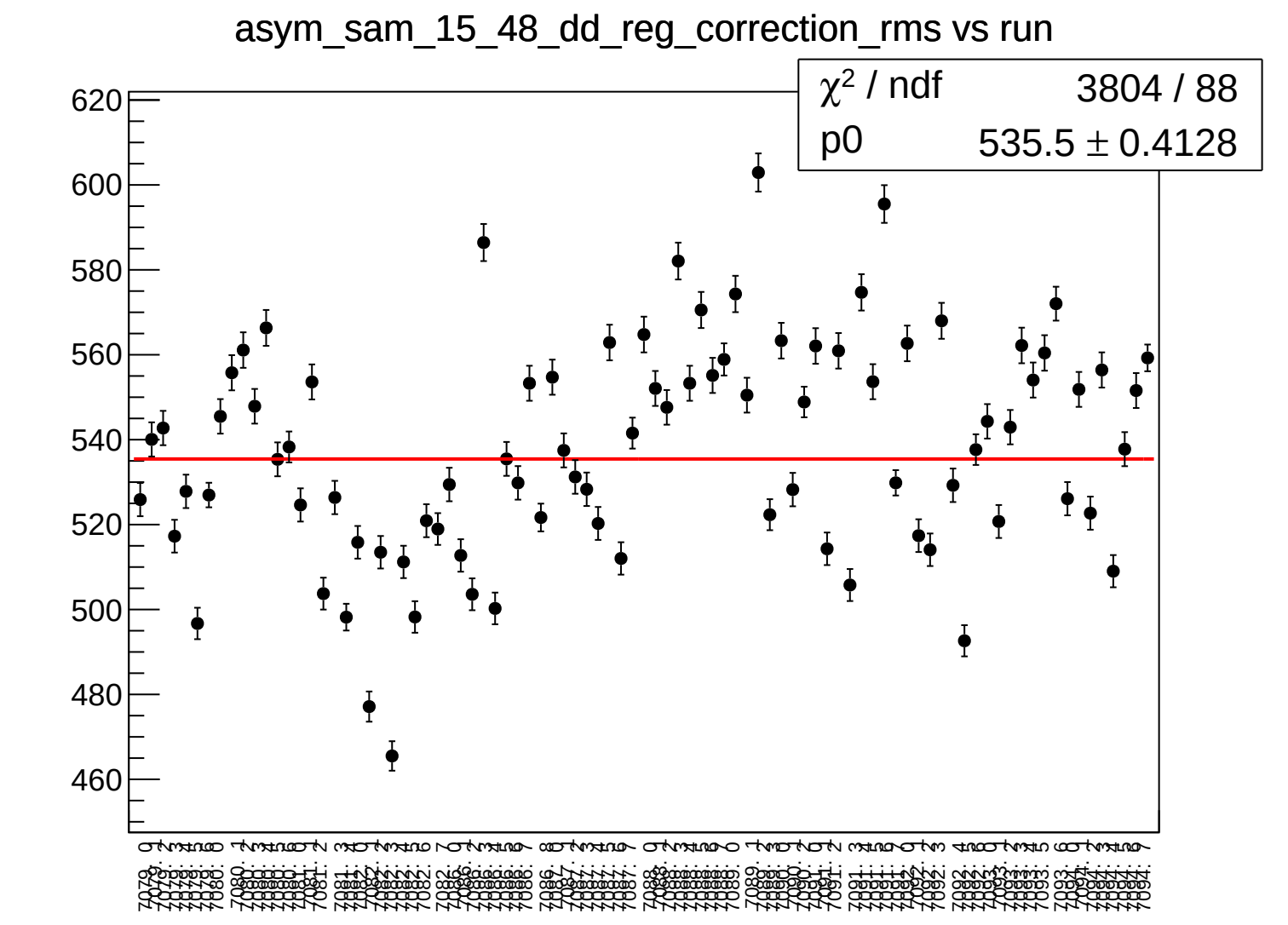

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 5.798e+05 / 88
p0 9.197e−12 ± 8.743e−15

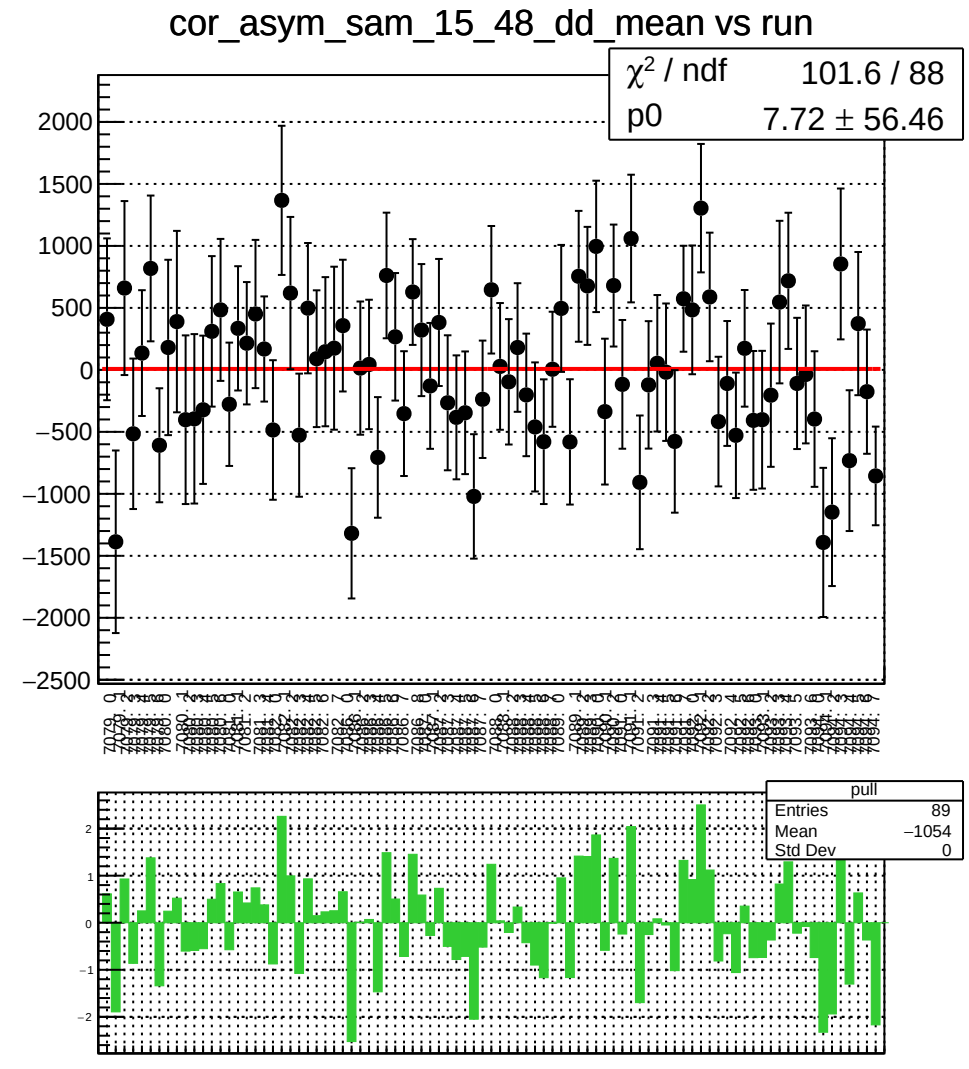

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 101.6 / 88
p0 7.742 ± 56.46
pull
Entries 89
Mean −1053
Std Dev 0

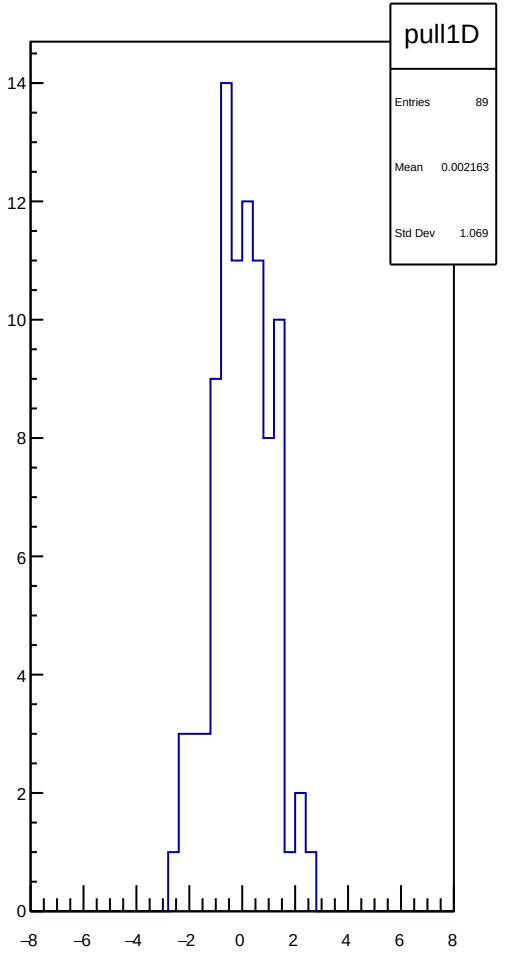

pull1D
Entries 89
Mean 0.002165
Std Dev 1.069

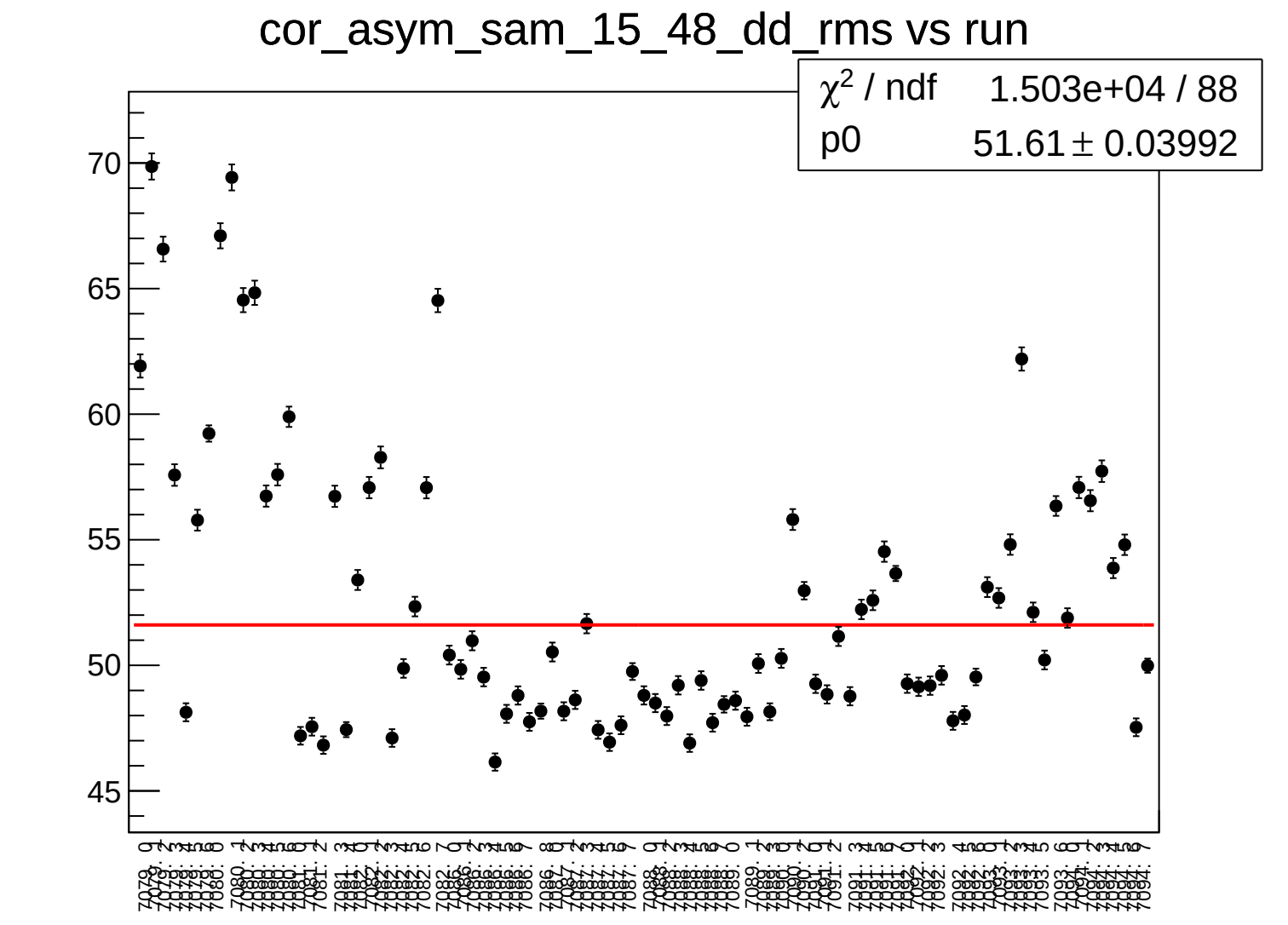

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.503e+04 / 88
p0 51.61 ± 0.03992
70
65
60
55
50
45

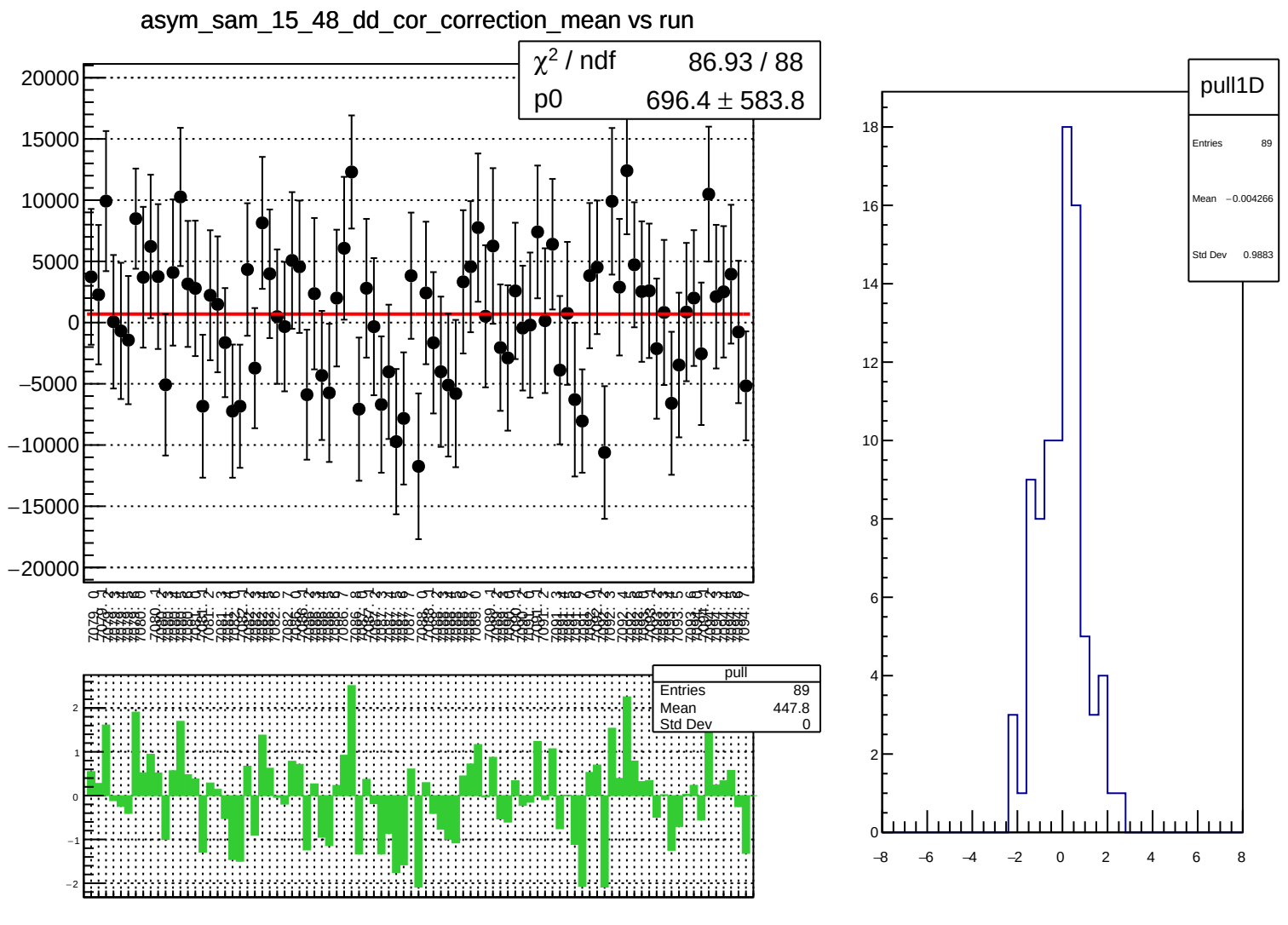

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 86.93 / 88
p0 696.5 ± 583.8
pull
Entries 89
Mean 447.7
Std Dev 0
pull1D
Entries 89
Mean −0.004267
Std Dev 0.9883

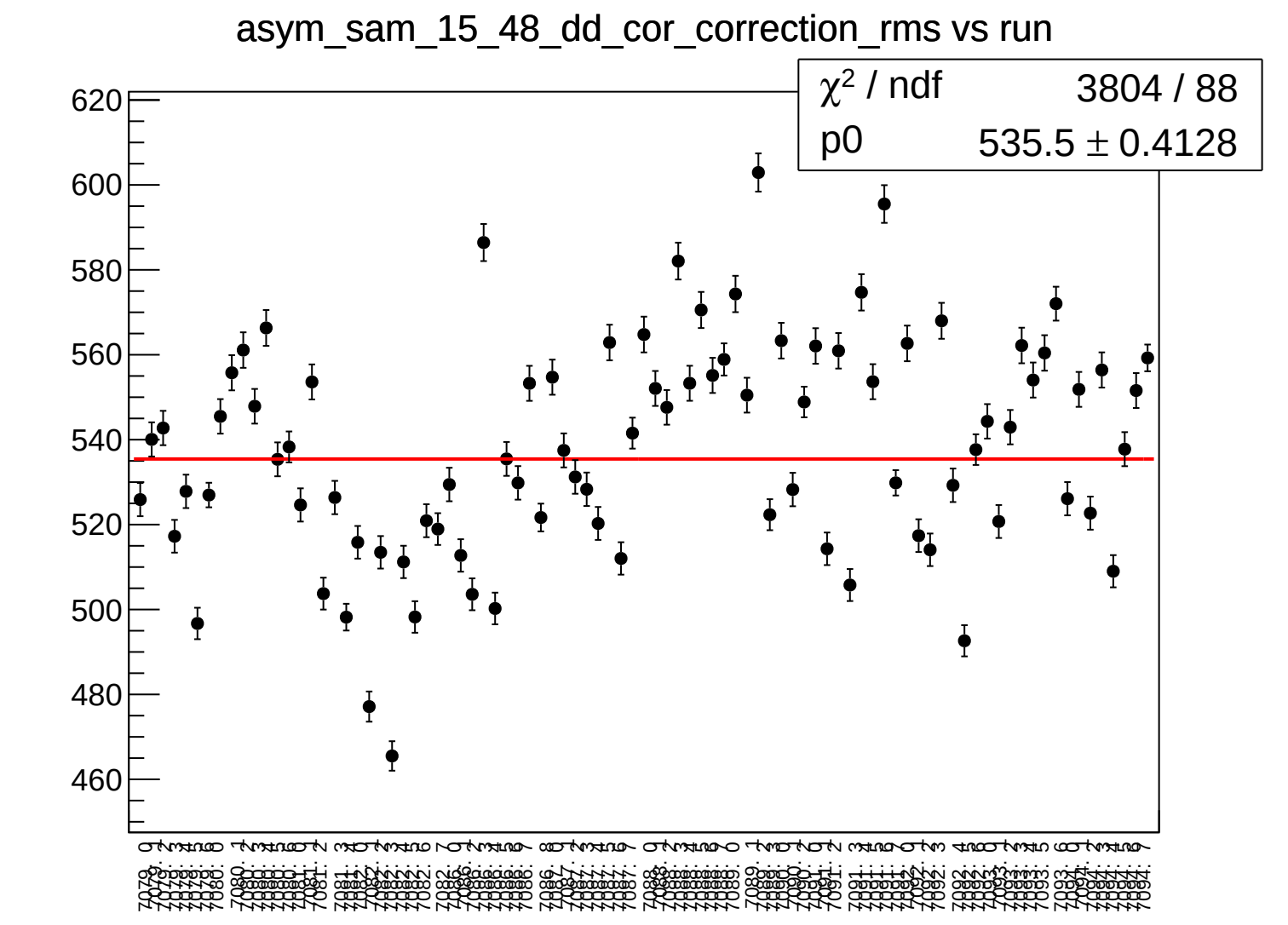

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 3804 / 88
p0 535.5 ± 0.4128
620
600
580
560
540
520
500
480
460

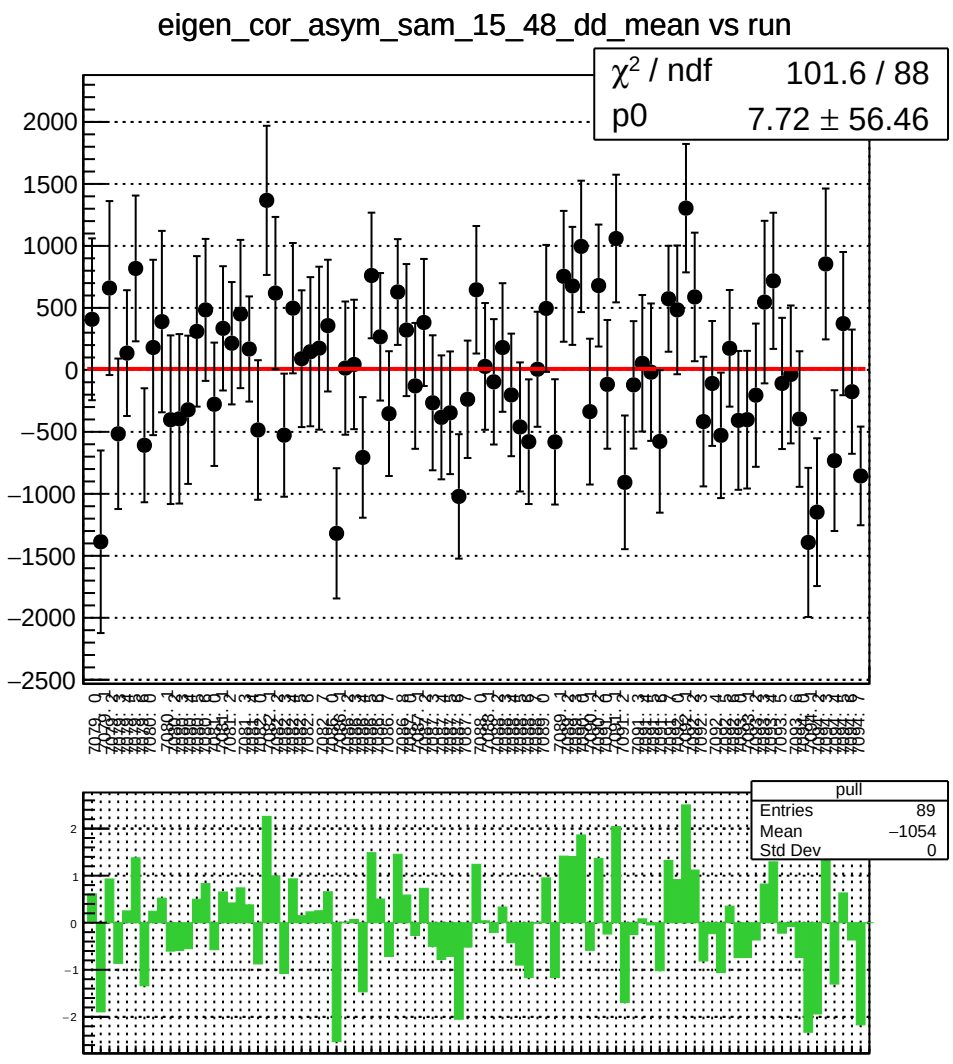

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 101.6 / 88
p0 7.72 ± 56.46
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull
Entries 89
Mean −1054
Std Dev 0
2
1
0
−1
−2

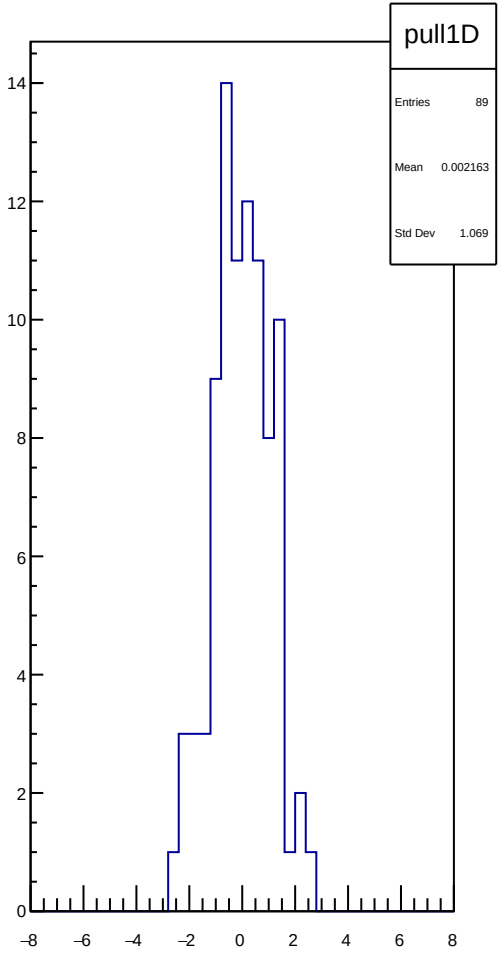

pull1D
Entries 89
Mean 0.002163
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

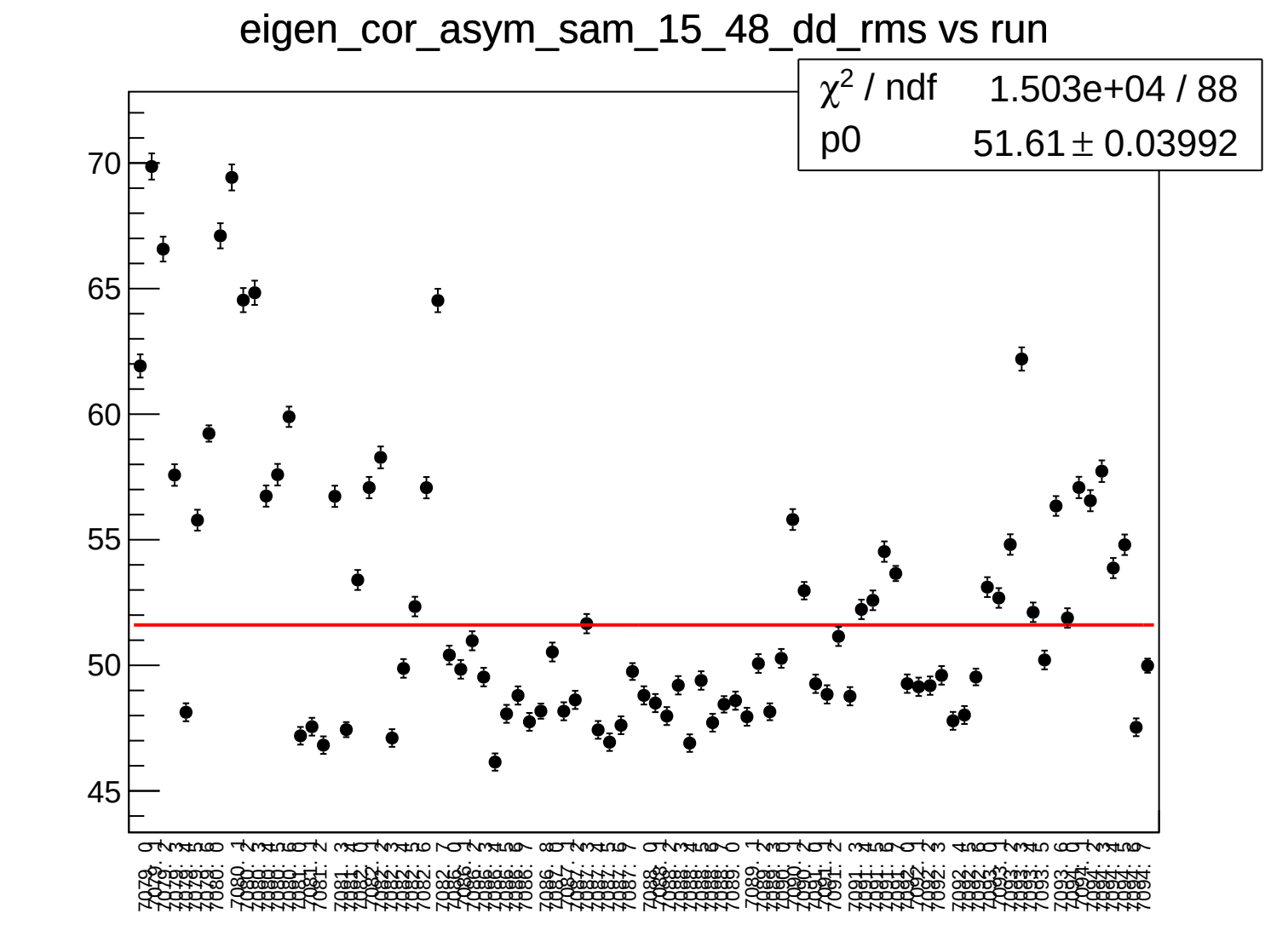

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.503e+04 / 88
p0 51.61 ± 0.03992
70
65
60
55
50
45

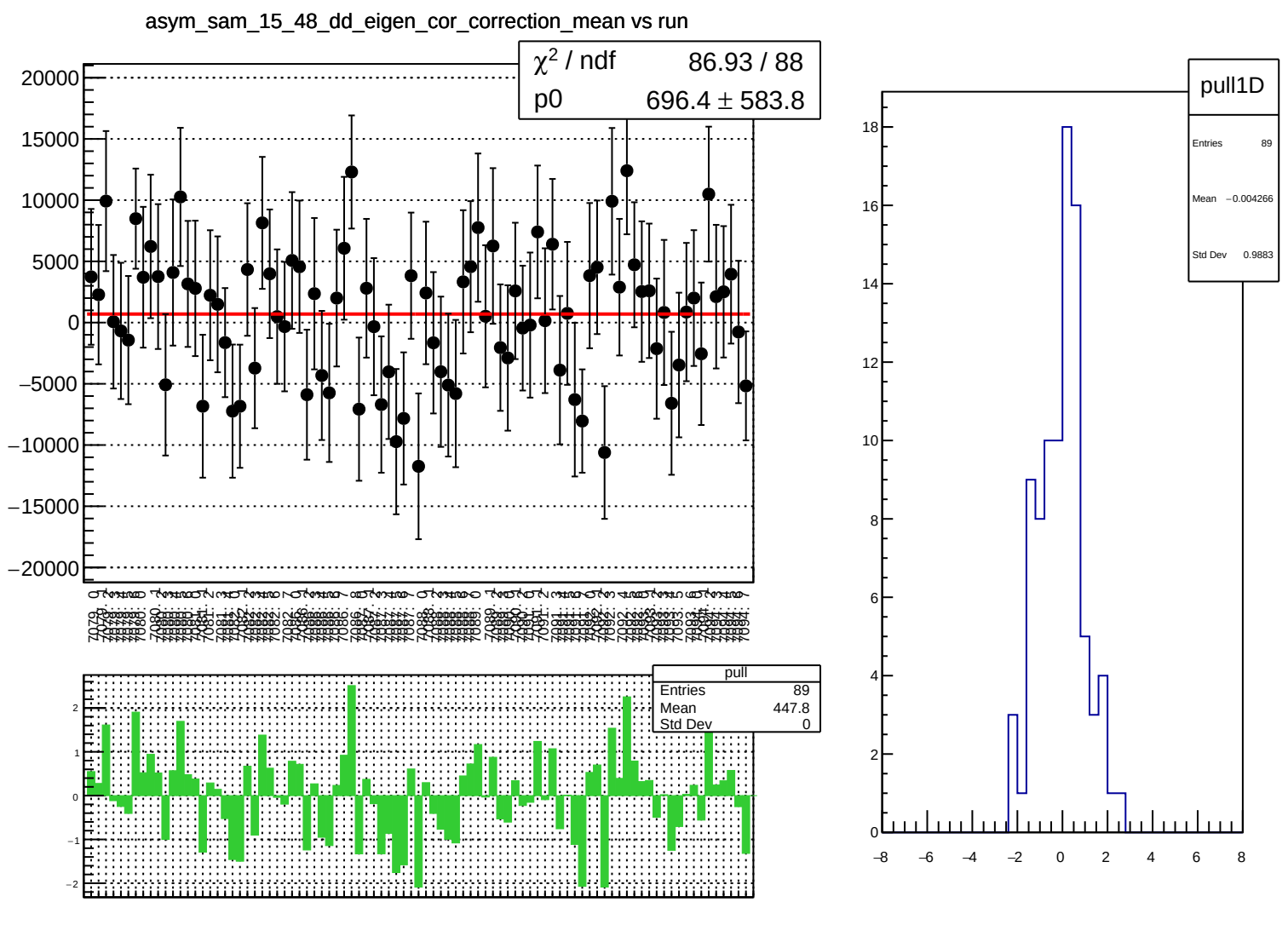

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 86.93 / 88
p0 696.4 ± 583.8
pull
Entries 89
Mean 447.8
Std Dev 0
pull1D
Entries 89
Mean −0.004266
Std Dev 0.9883

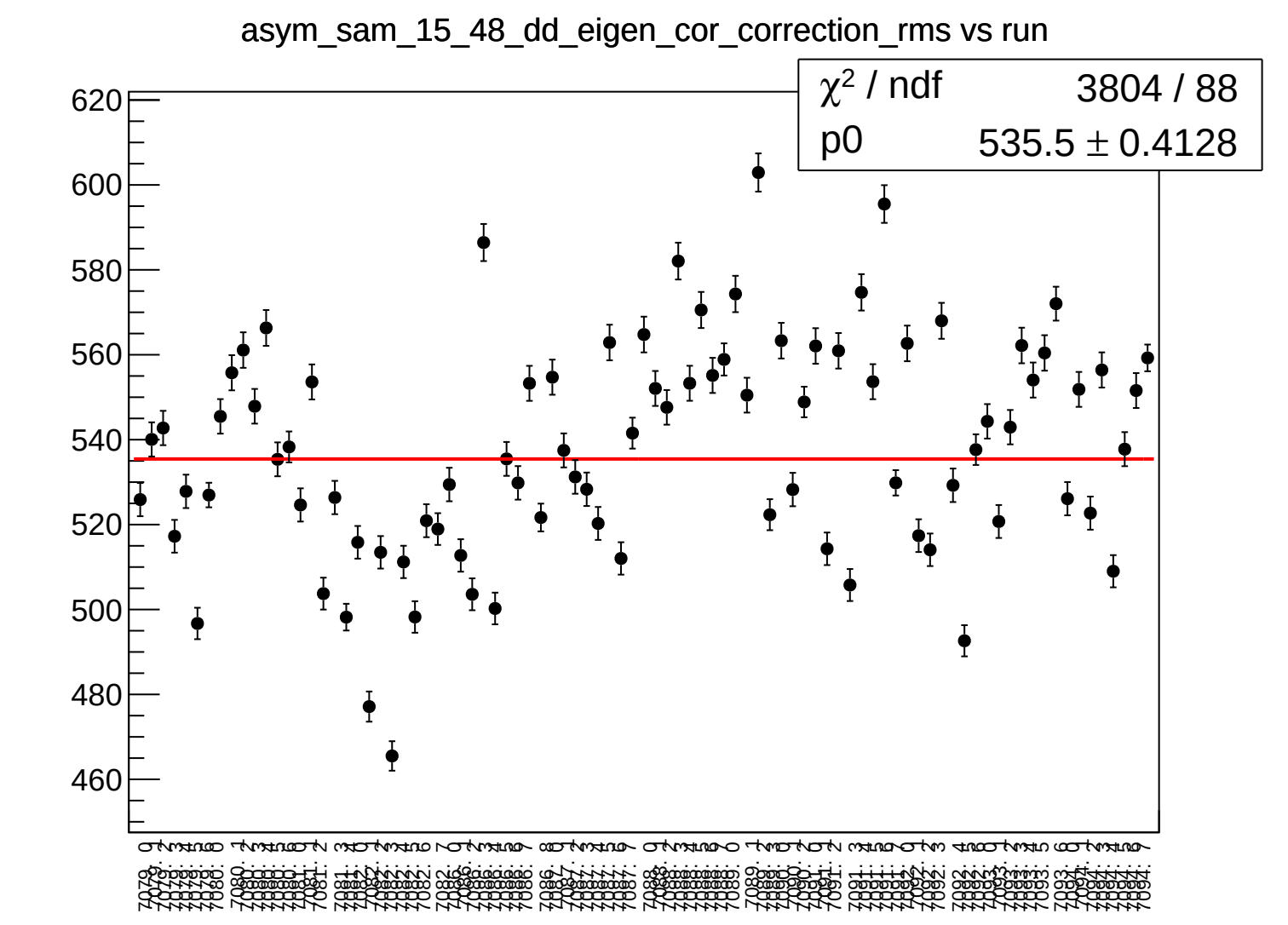

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 3804 / 88
p0 535.5 ± 0.4128
620
600
580
560
540
520
500
480
460

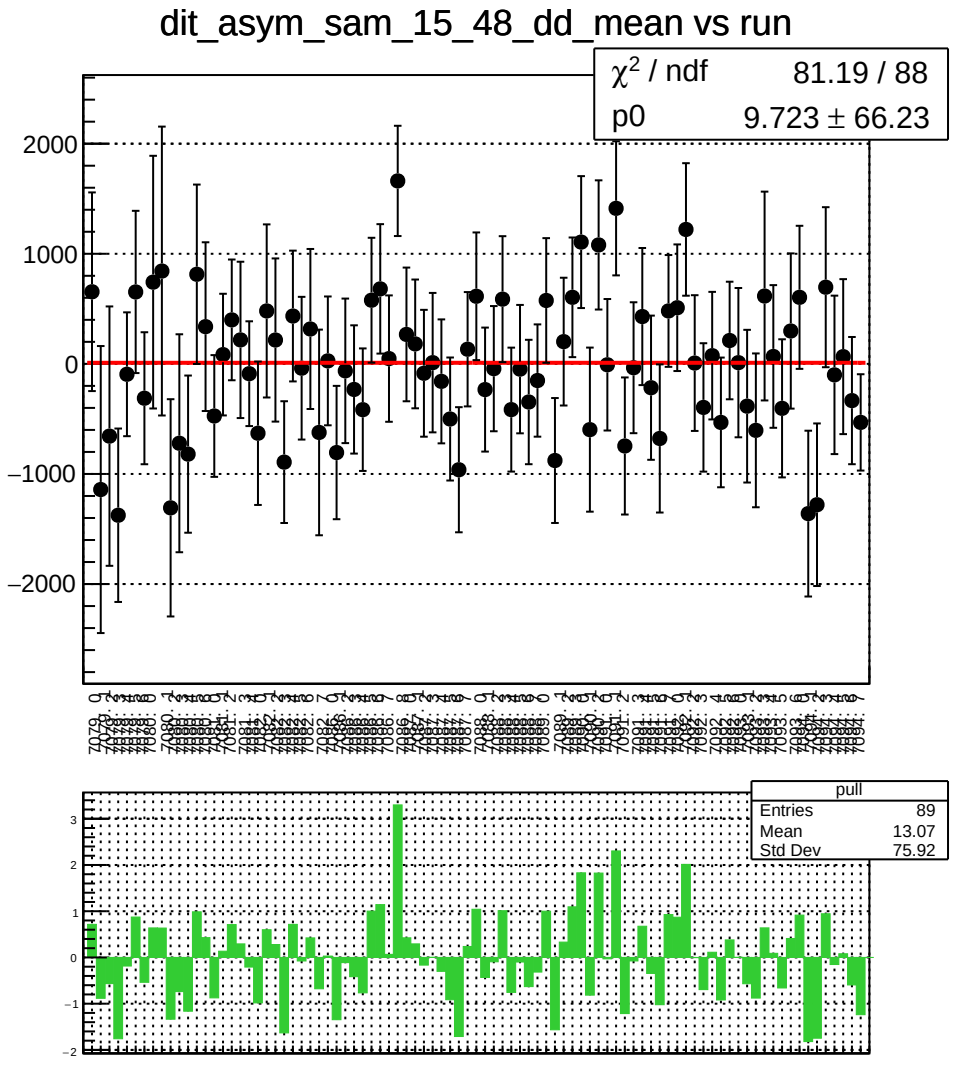

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 101.6 / 88
p0 7.72 ± 56.46
pull
Entries 89
Mean −1054
Std Dev 0

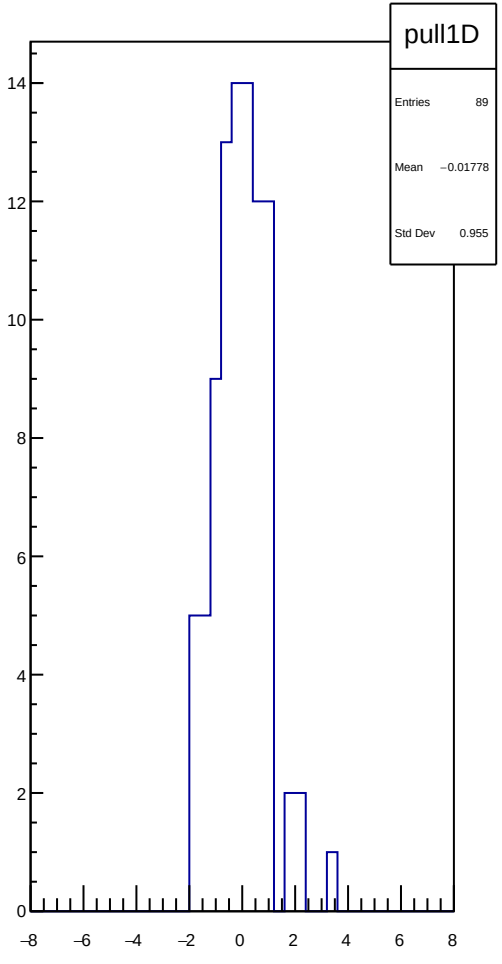

pull1D
Entries 89
Mean 0.002163
Std Dev 1.069

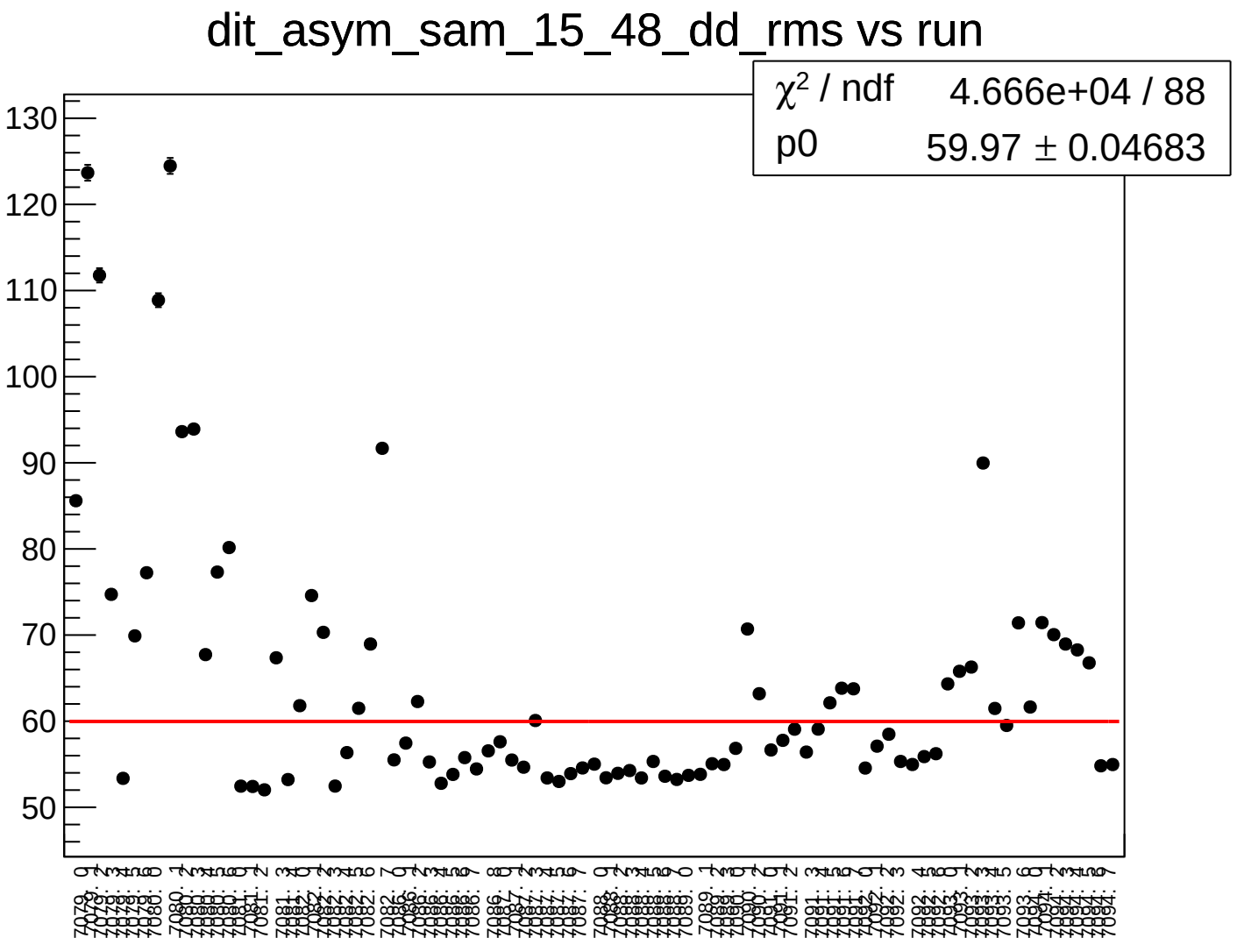

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.503e+04 / 88
p0 51.61 ± 0.03992
70
65
60
55
50
45

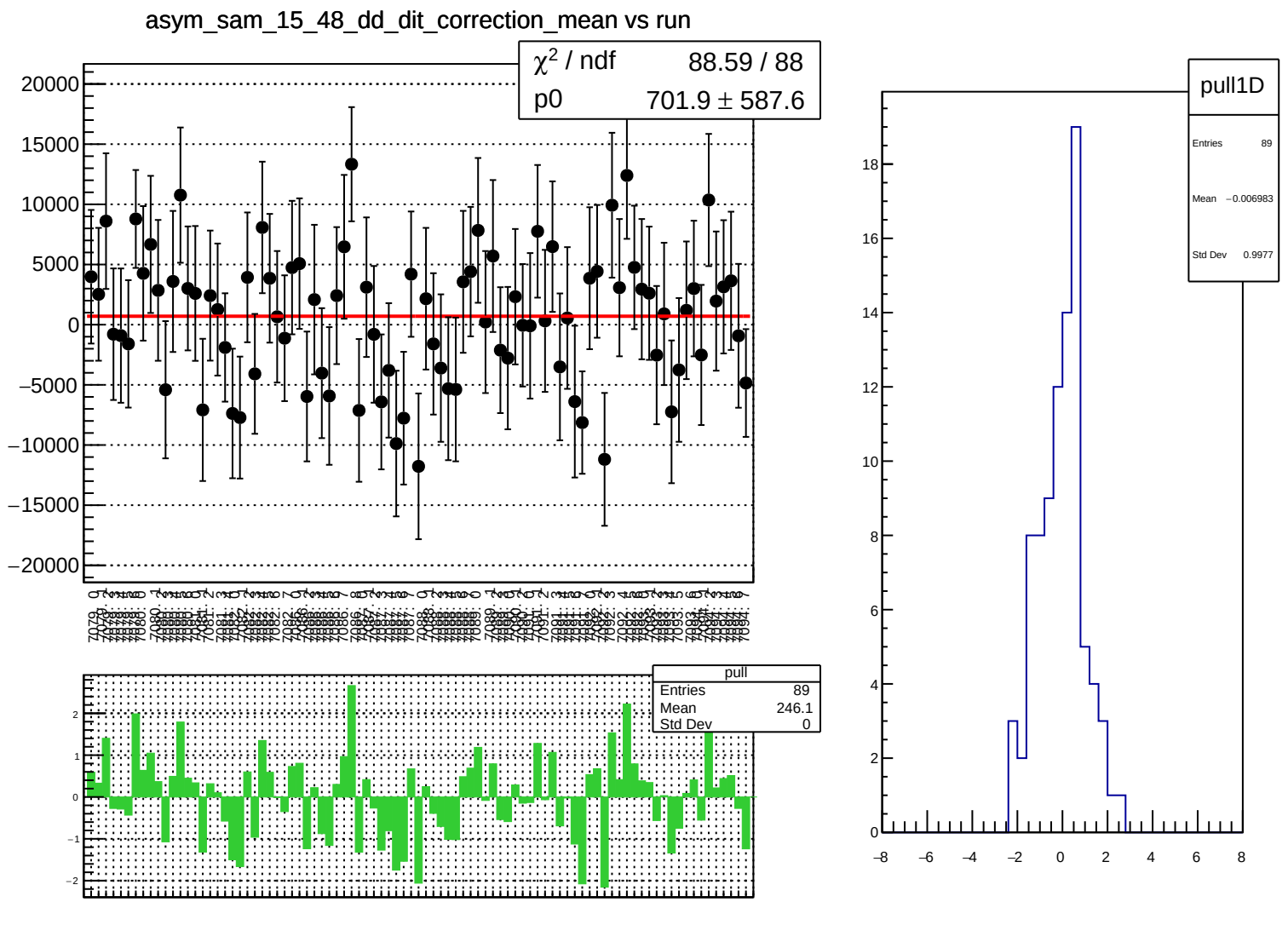

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.93 / 88
p0 696.4 ± 583.8
pull
Entries 89
Mean 447.8
Std Dev 0
pull1D
Entries 89
Mean −0.004266
Std Dev 0.9883

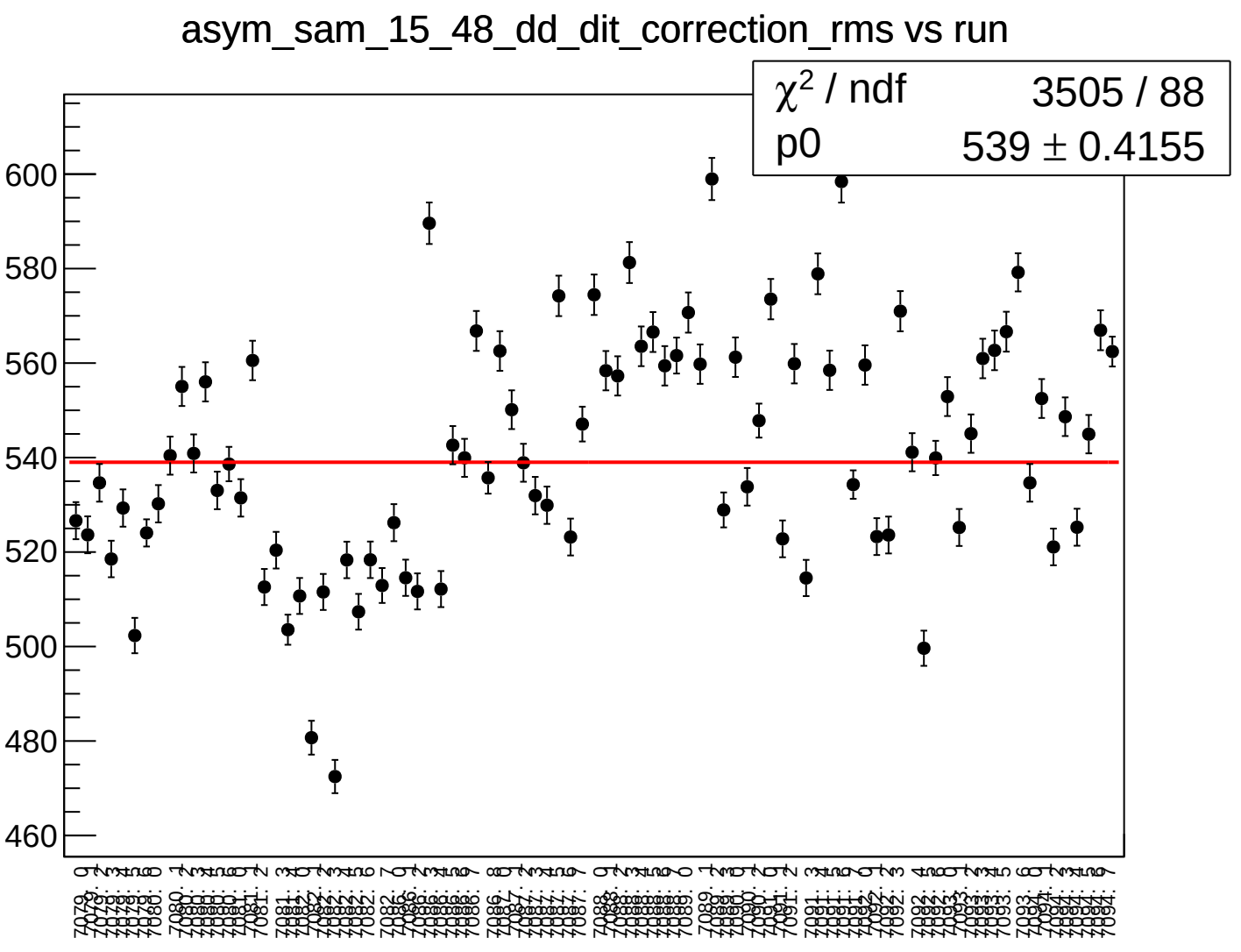

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3804 / 88
p0 535.5 ± 0.4128
620
600
580
560
540
520
500
480
460

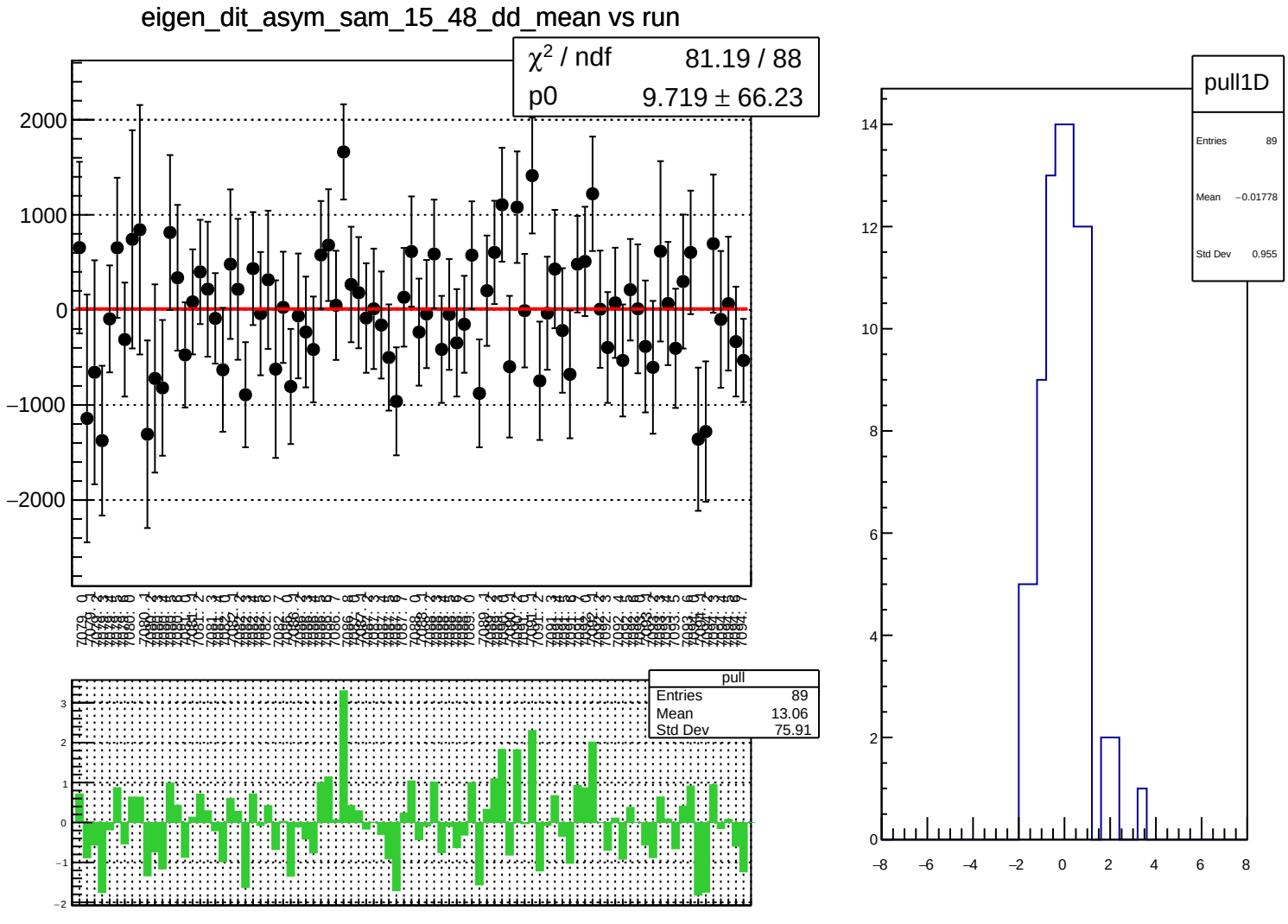

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.19 / 88
p0 9.723 ± 66.23
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 13.07
Std Dev 75.92
3
2
1
0
−1
−2

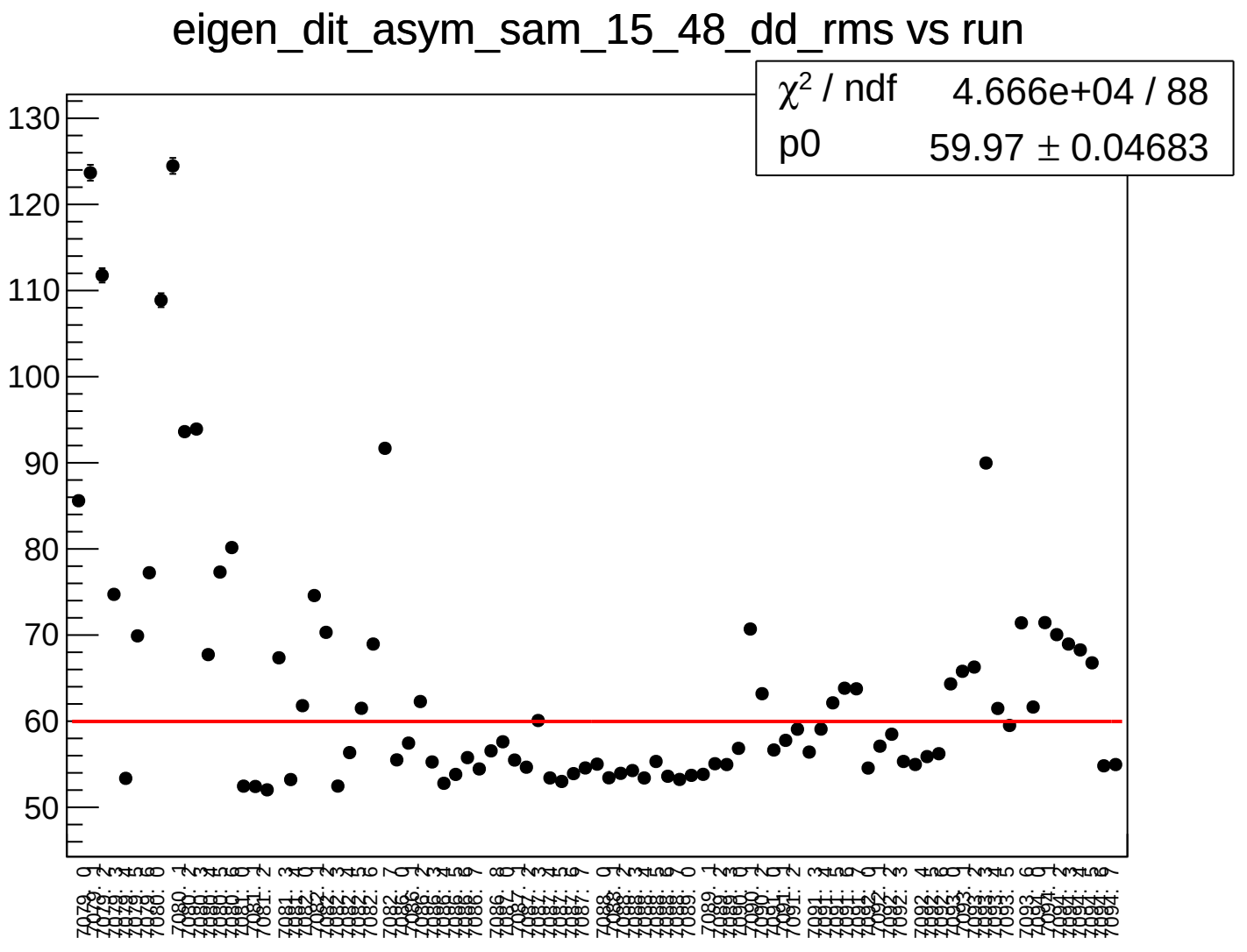

pull1D
Entries 89
Mean −0.01778
Std Dev 0.955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

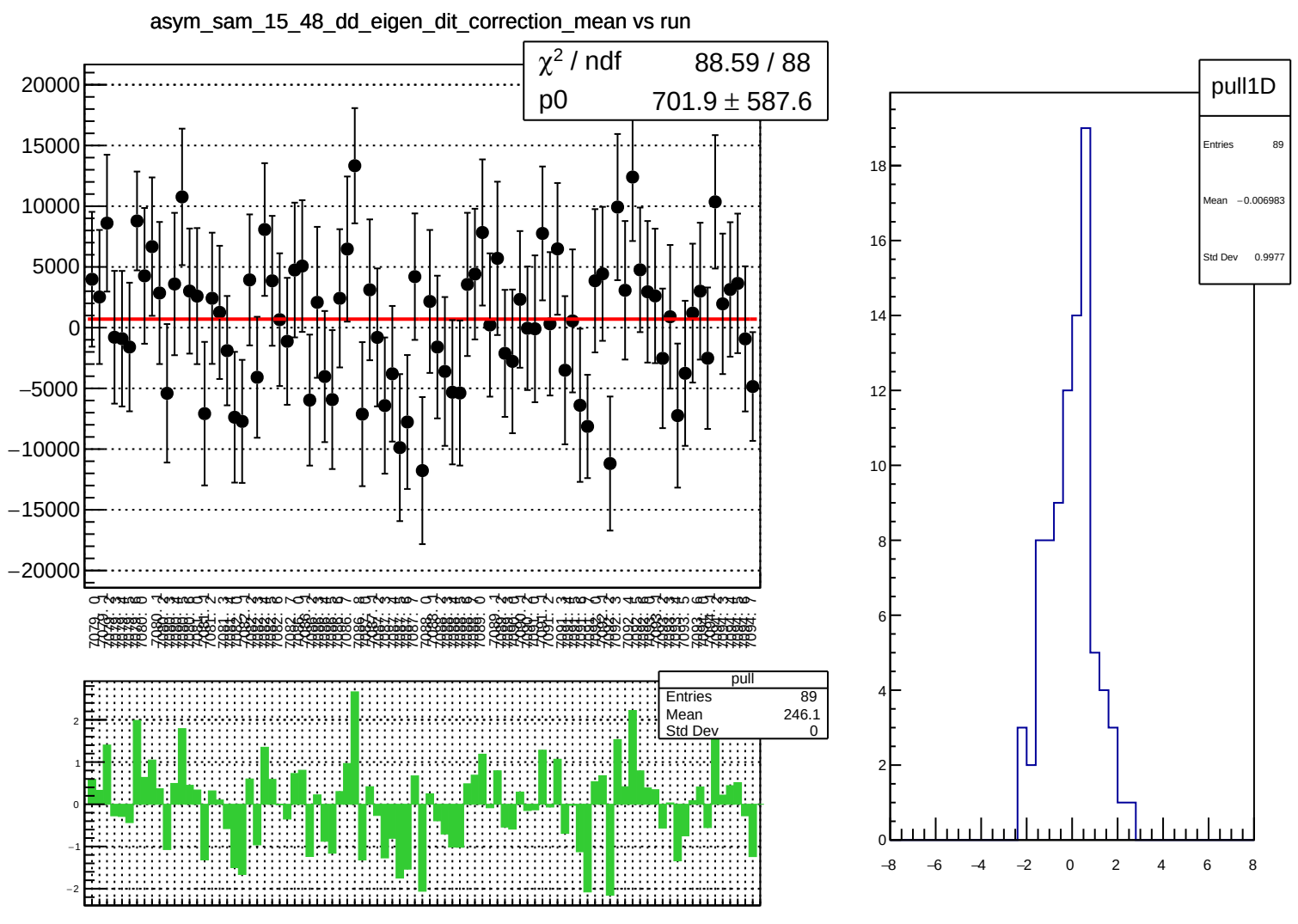

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 4.666e+04 / 88
p0 59.97 ± 0.04683
130
120
110
100
90
80
70
60
50

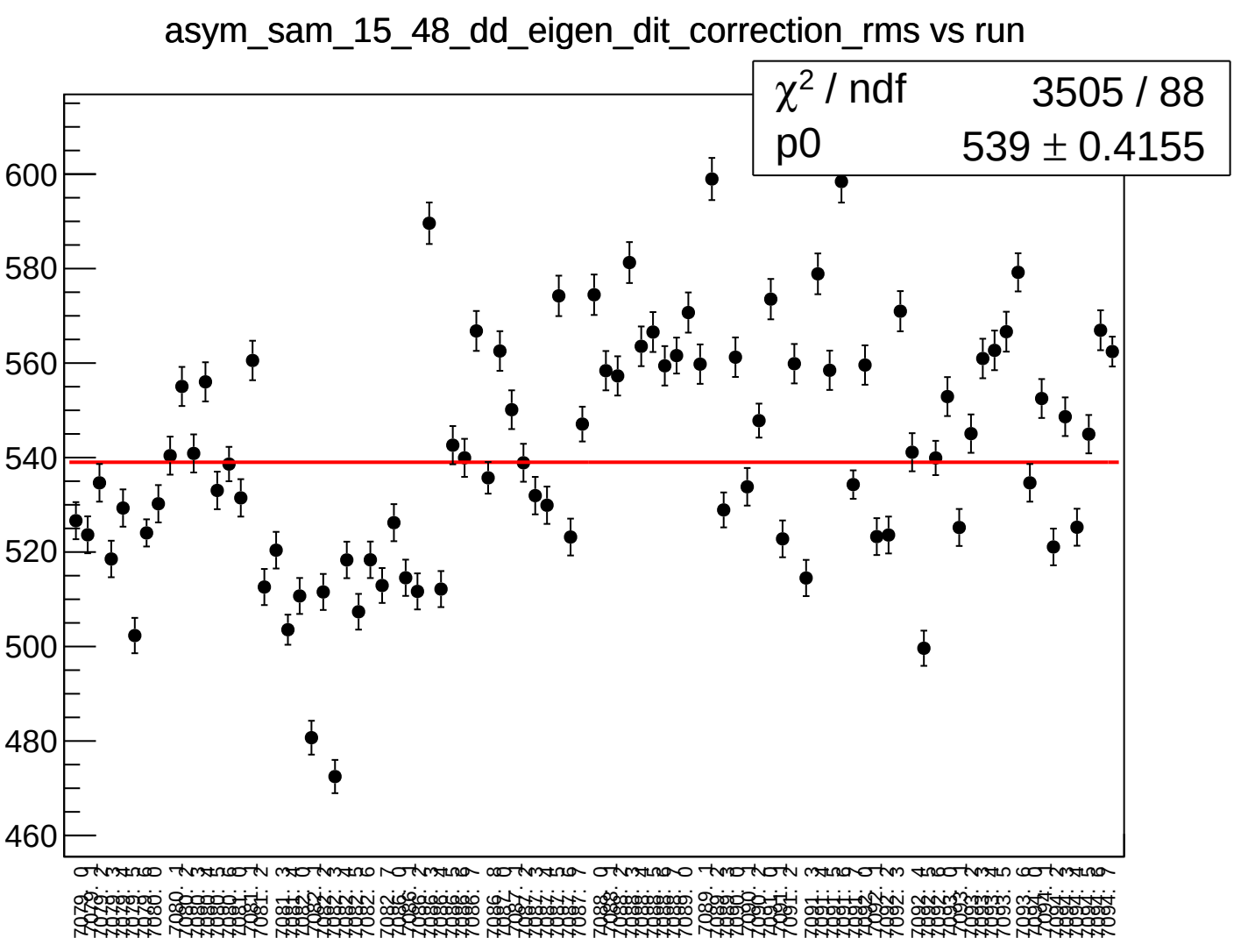

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 88.59 / 88
p0 701.9 ± 587.6
pull
Entries 89
Mean 246.1
Std Dev 0
pull1D
Entries 89
Mean −0.006983
Std Dev 0.9977

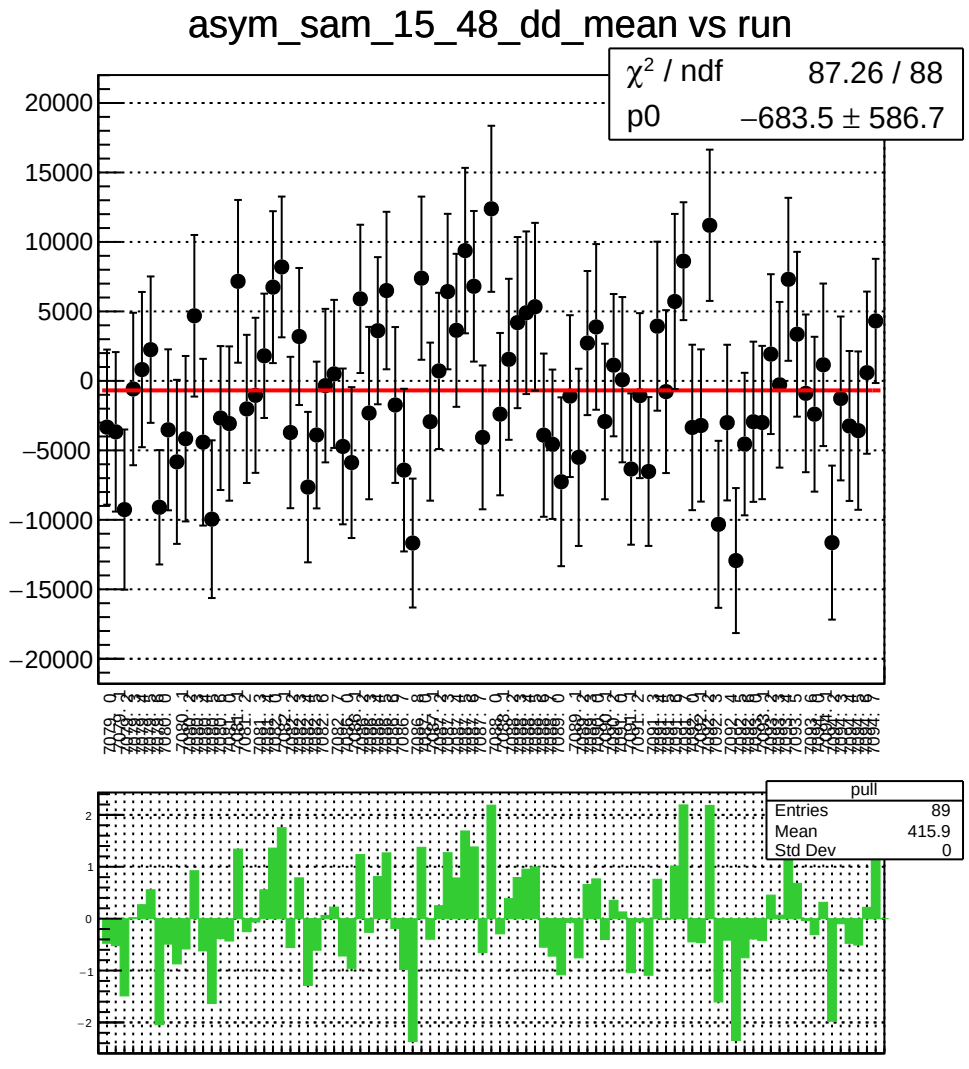

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3505 / 88
p0 539 ± 0.4155
600
580
560
540
520
500
480
460

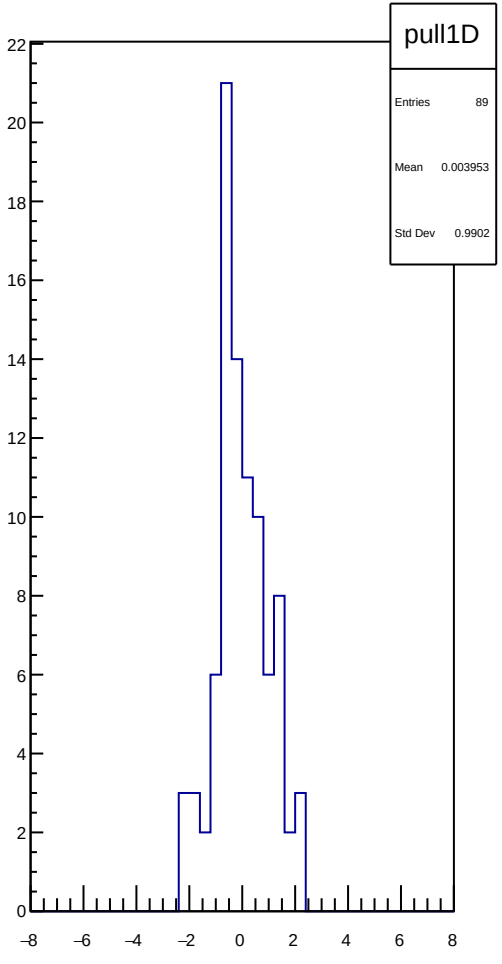

eigen_dit_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 81.19 / 88
p0 9.719 ± 66.23
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 13.06
Std Dev 75.91
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01778
Std Dev 0.955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

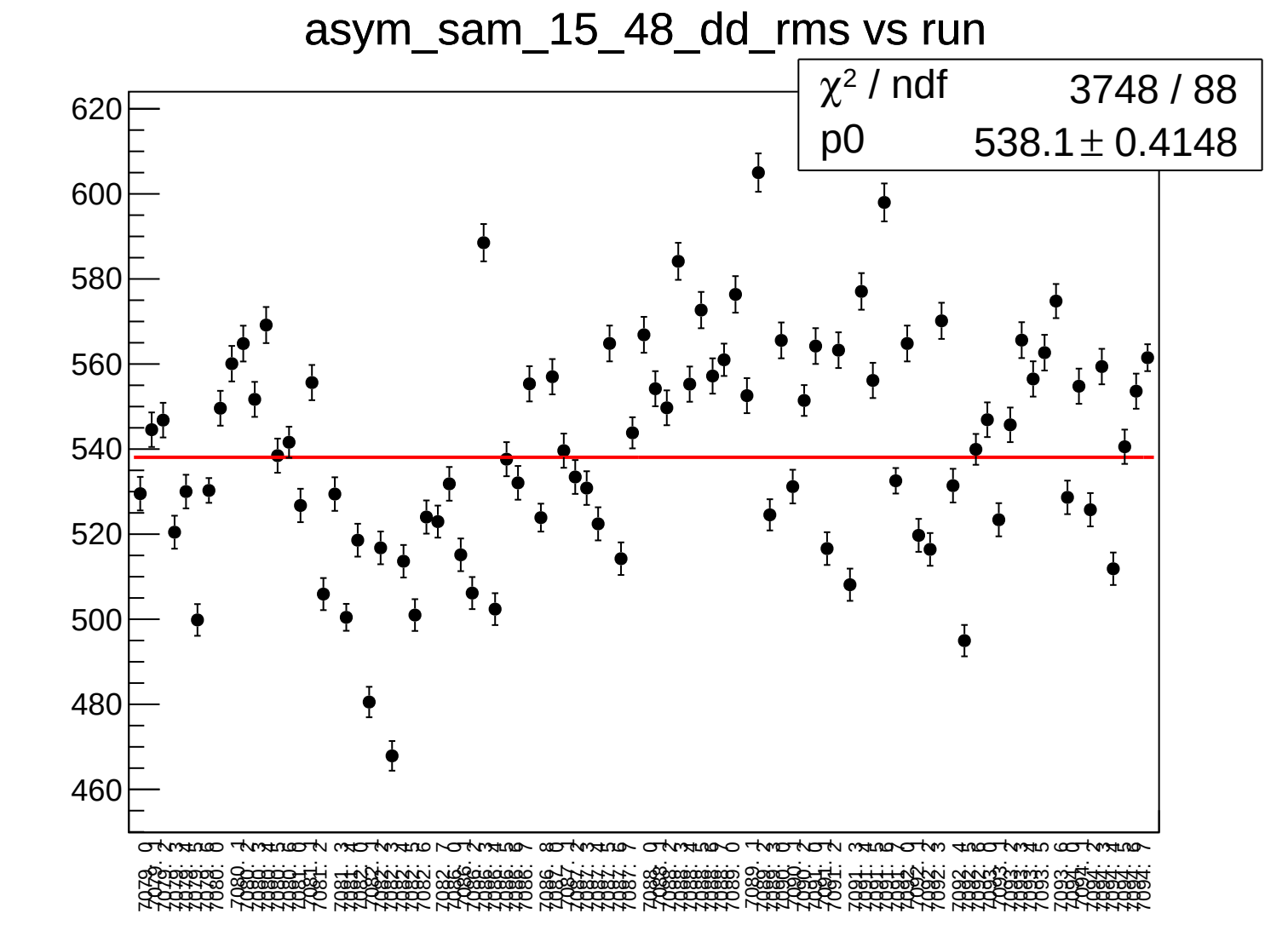

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 4.666e+04 / 88
p0 59.97 ± 0.04683
130
120
110
100
90
80
70
60
50

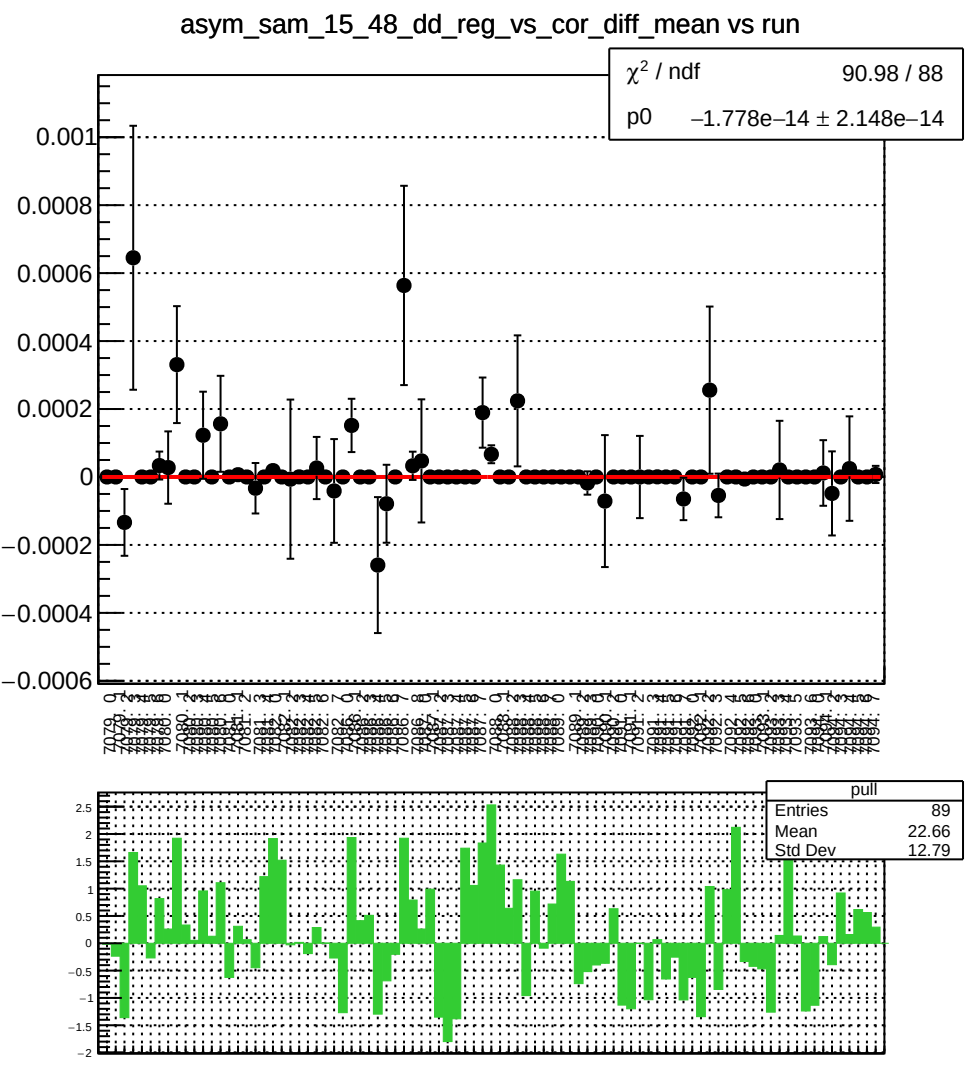

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.59 / 88
p0 701.9 ± 587.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 246.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.006983
Std Dev 0.9977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

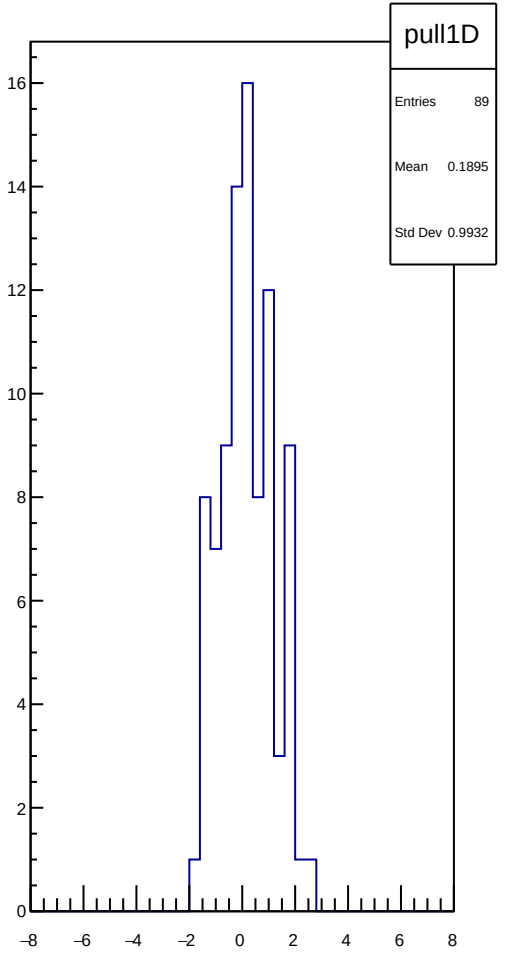

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3505 / 88
p0 539 ± 0.4155
600
580
560
540
520
500
480
460

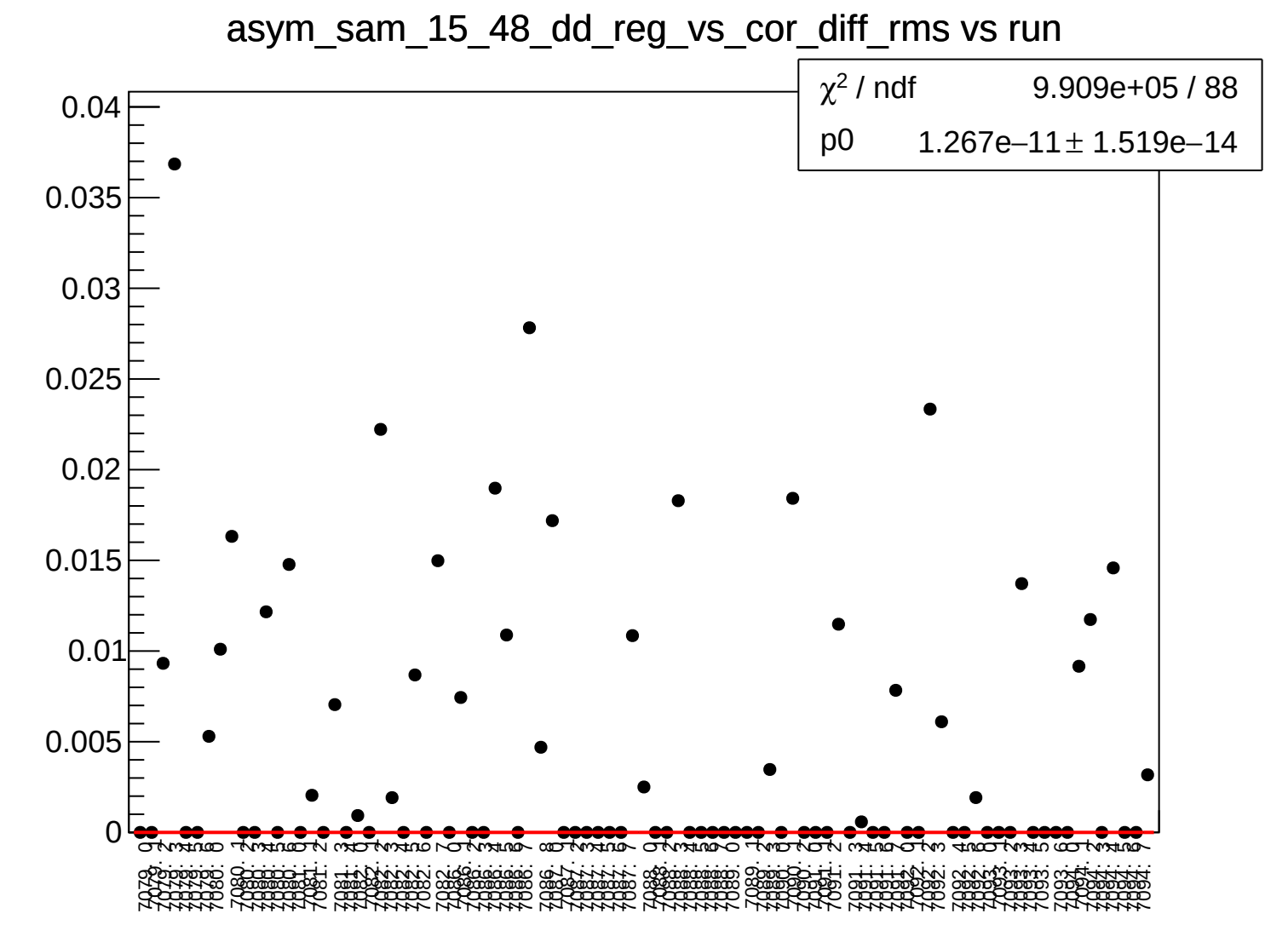

asym_sam_15_48_dd_mean vs run
χ² / ndf 87.26 / 88
p0 −683.5 ± 586.7
pull
Entries 89
Mean 415.9
Std Dev 0

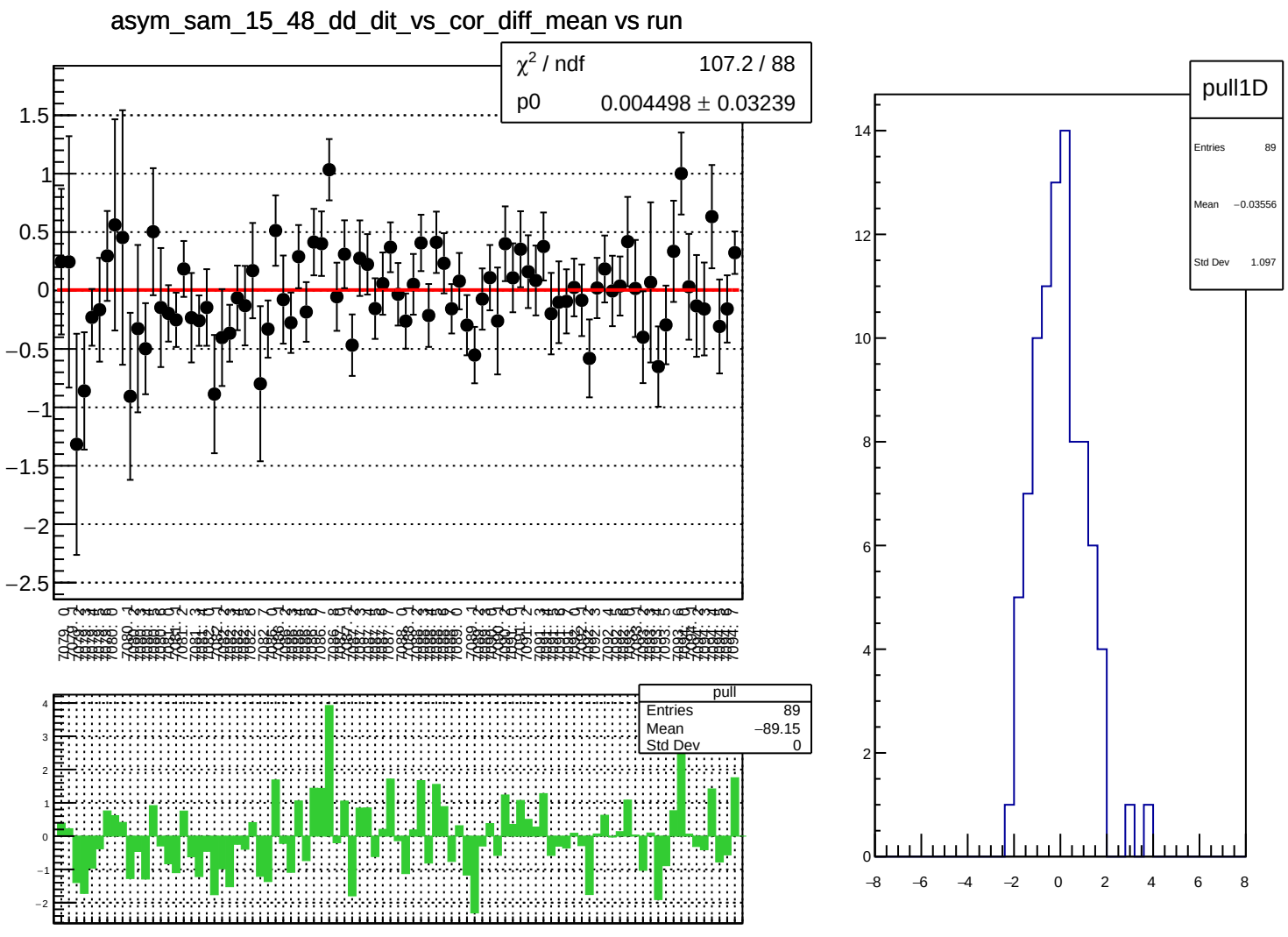

pull1D
Entries 89
Mean 0.003953
Std Dev 0.9902

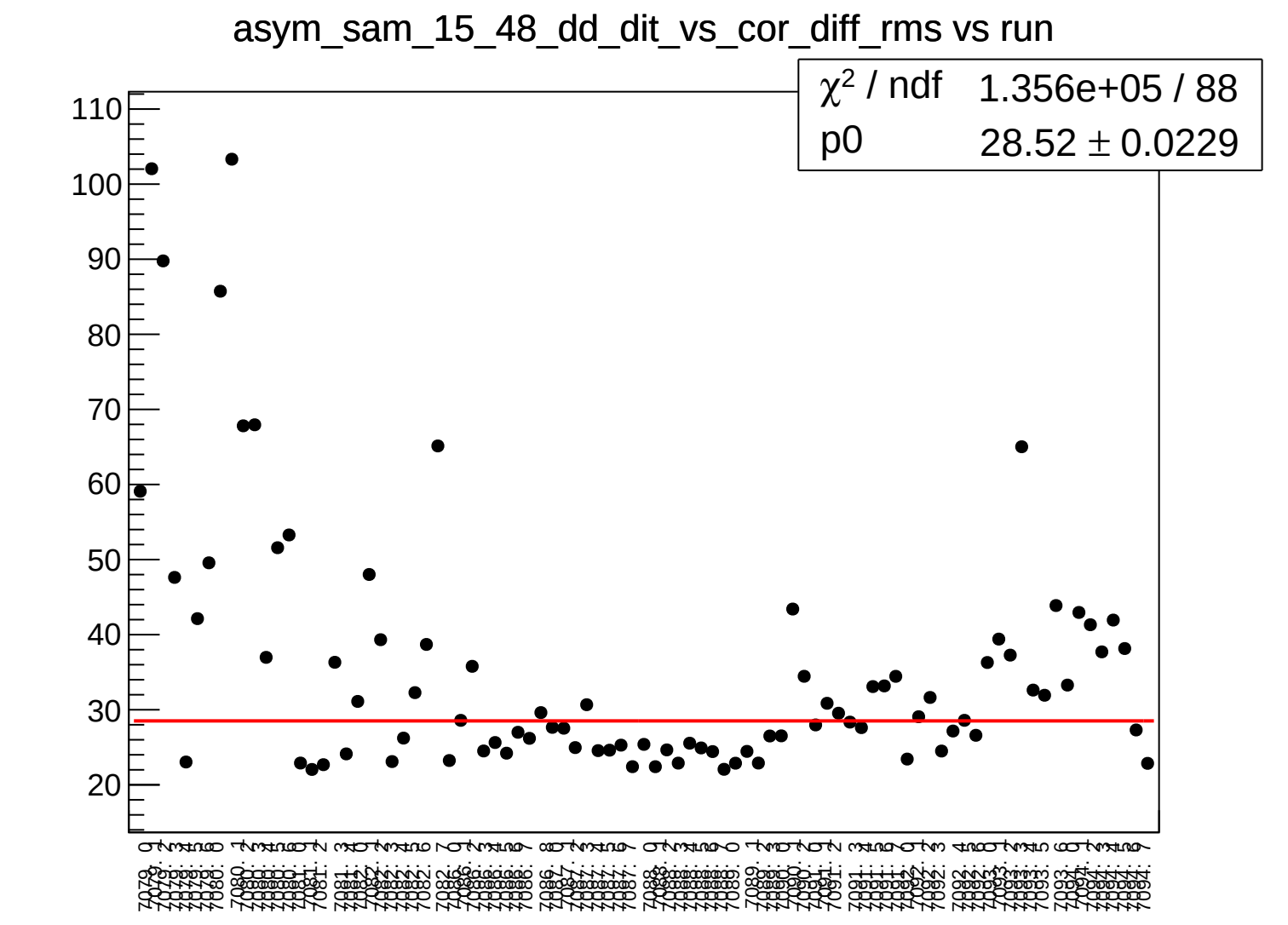

asym_sam_15_48_dd_rms vs run
χ² / ndf 3748 / 88
p0 538.1 ± 0.4148
620
600
580
560
540
520
500
480
460

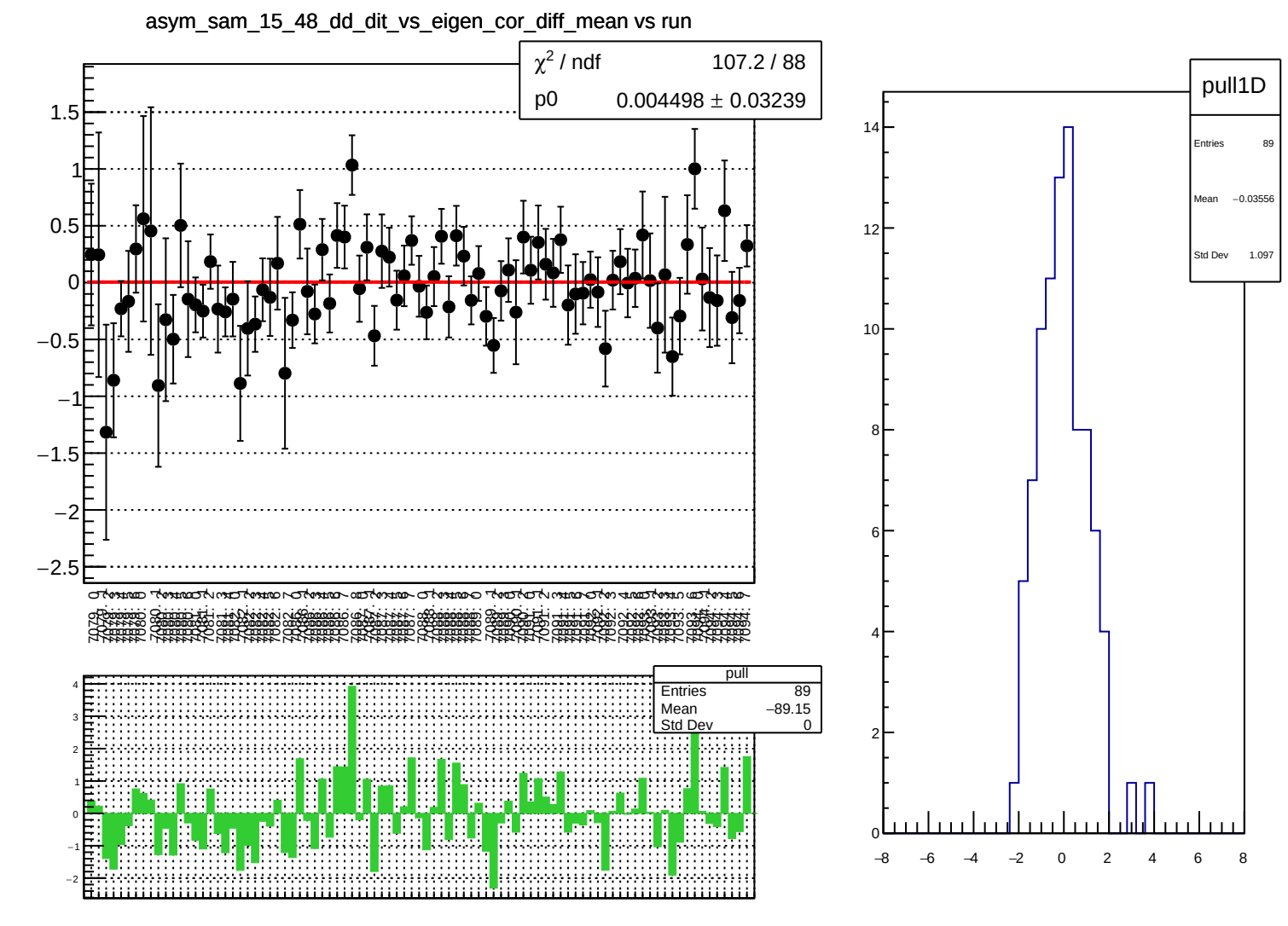

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.98 / 88
p0 −1.778e−14 ± 2.148e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 89
Mean 22.66
Std Dev 12.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

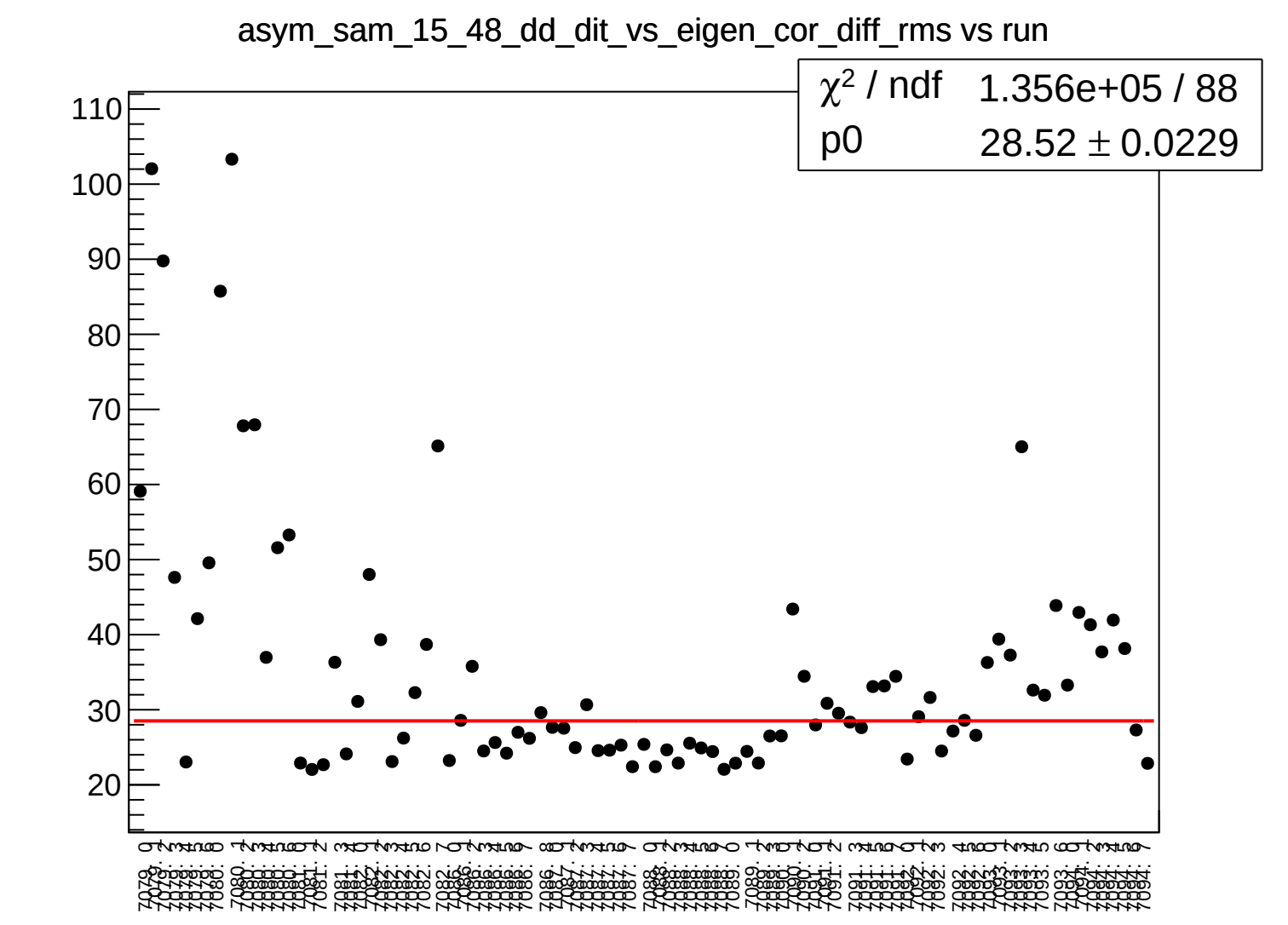

pull1D
Entries 89
Mean 0.1895
Std Dev 0.9932
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

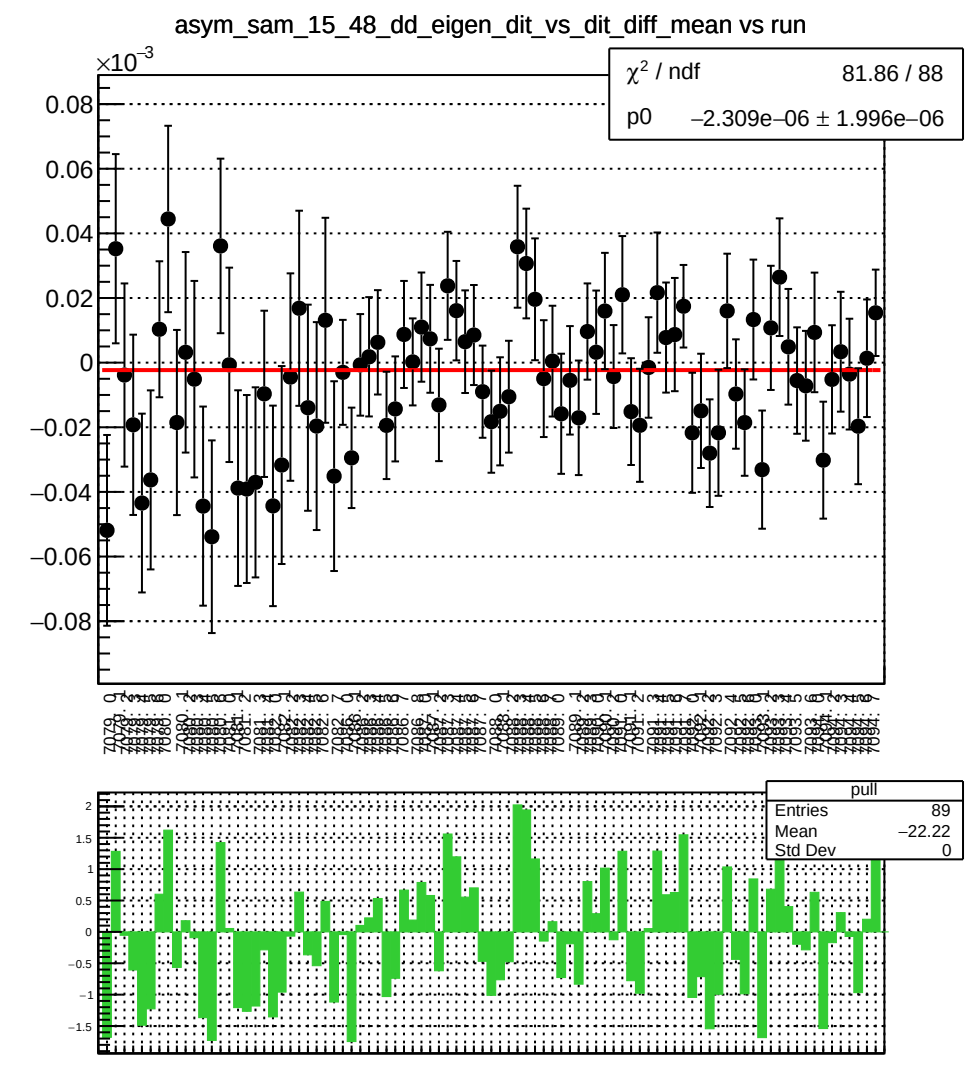

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.909e+05 / 88
p0 1.267e−11 ± 1.519e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

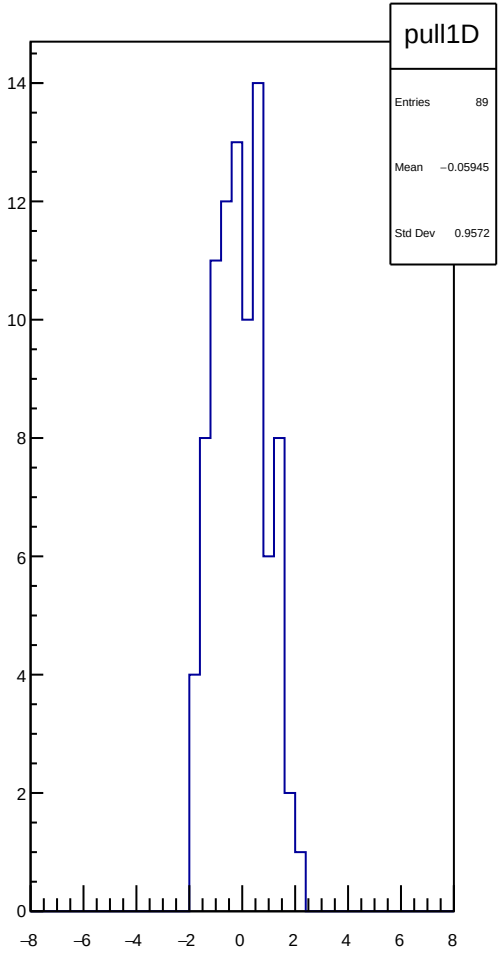

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 88
p0 0.004498 ± 0.03239
pull
Entries 89
Mean −89.15
Std Dev 0
pull1D
Entries 89
Mean −0.03556
Std Dev 1.097

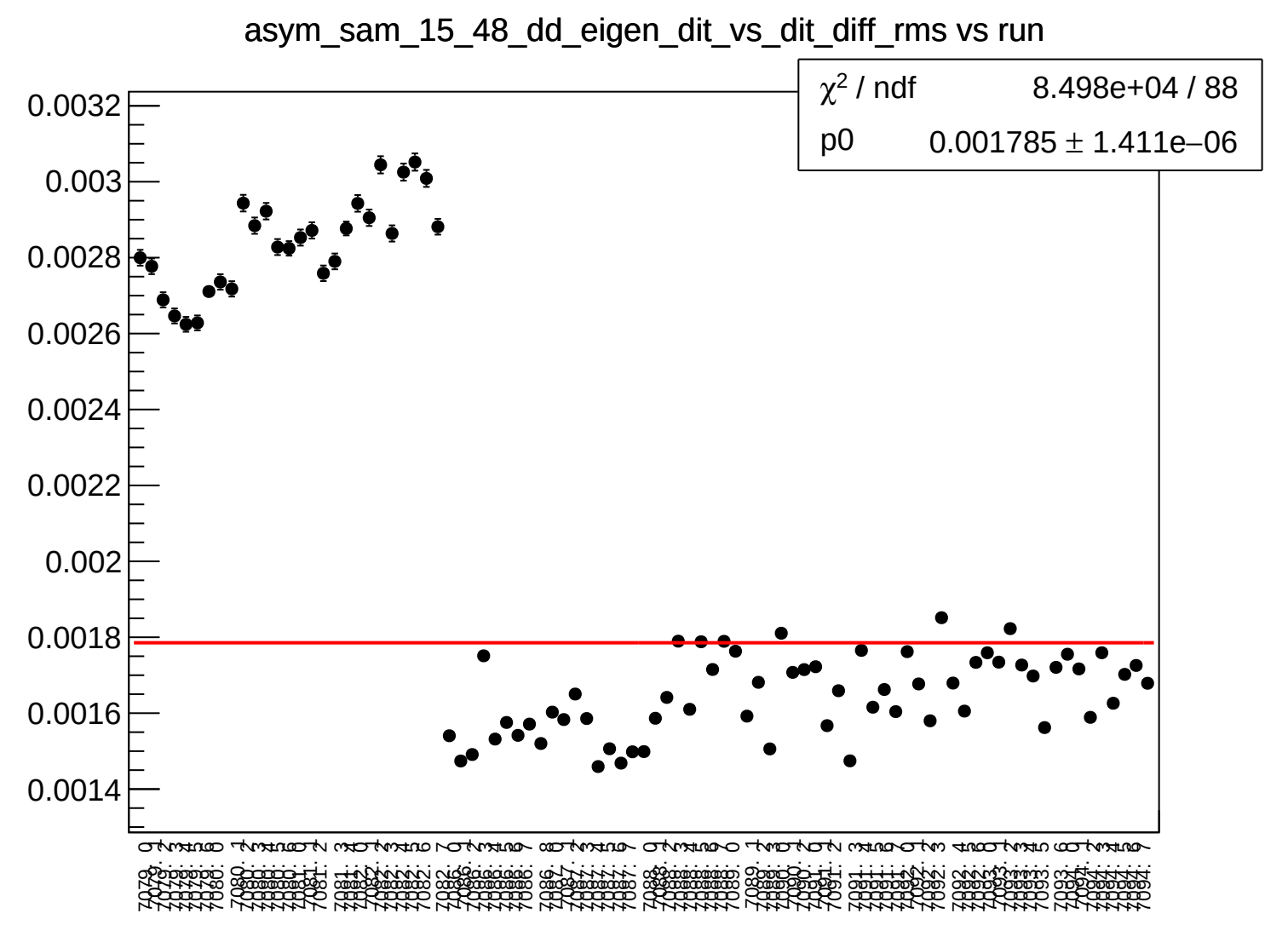

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.356e+05 / 88
p0 28.52 ± 0.0229
110
100
90
80
70
60
50
40
30
20

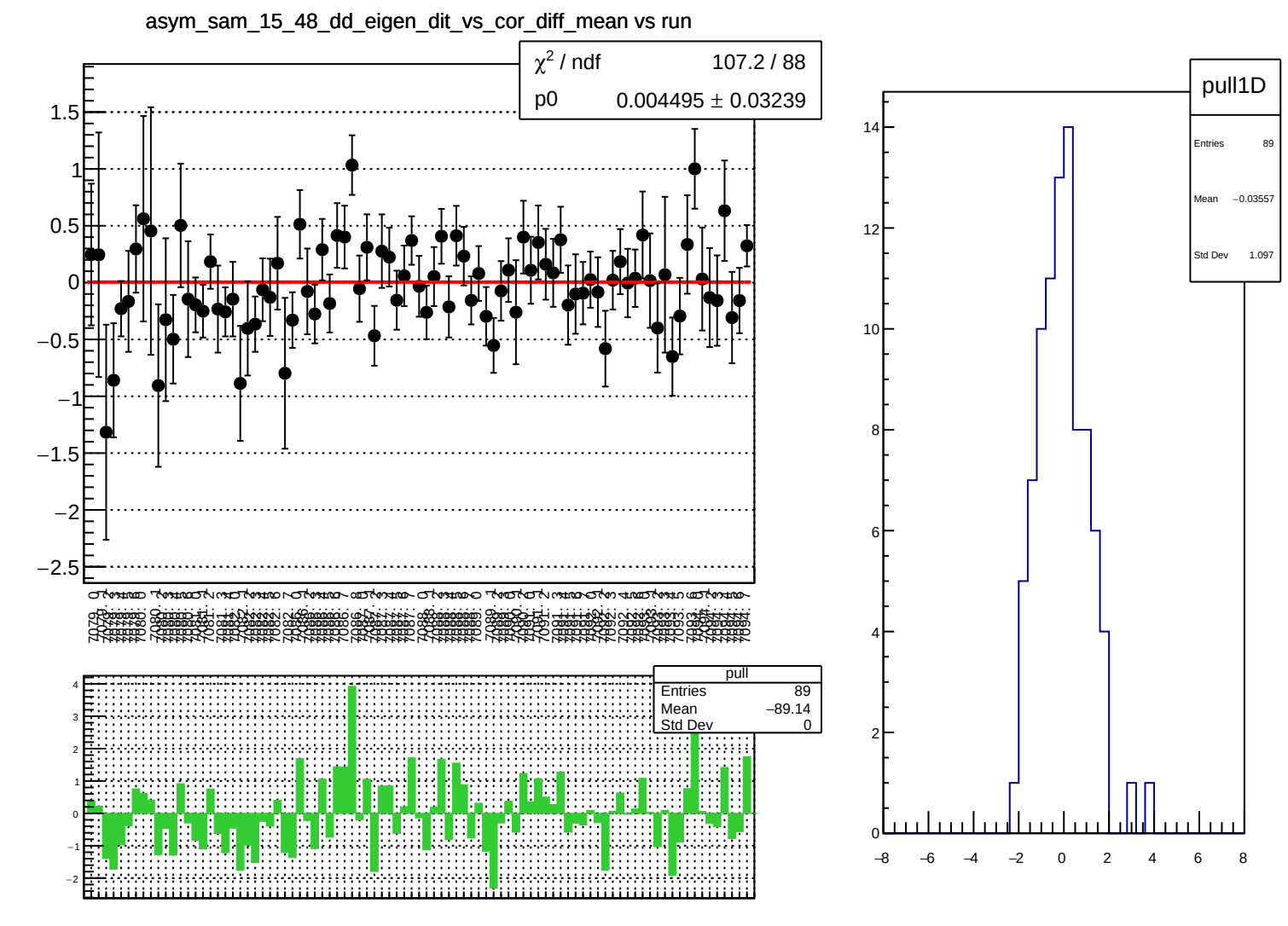

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 88
p0 0.004498 ± 0.03239
pull
Entries 89
Mean −89.15
Std Dev 0
pull1D
Entries 89
Mean −0.03556
Std Dev 1.097

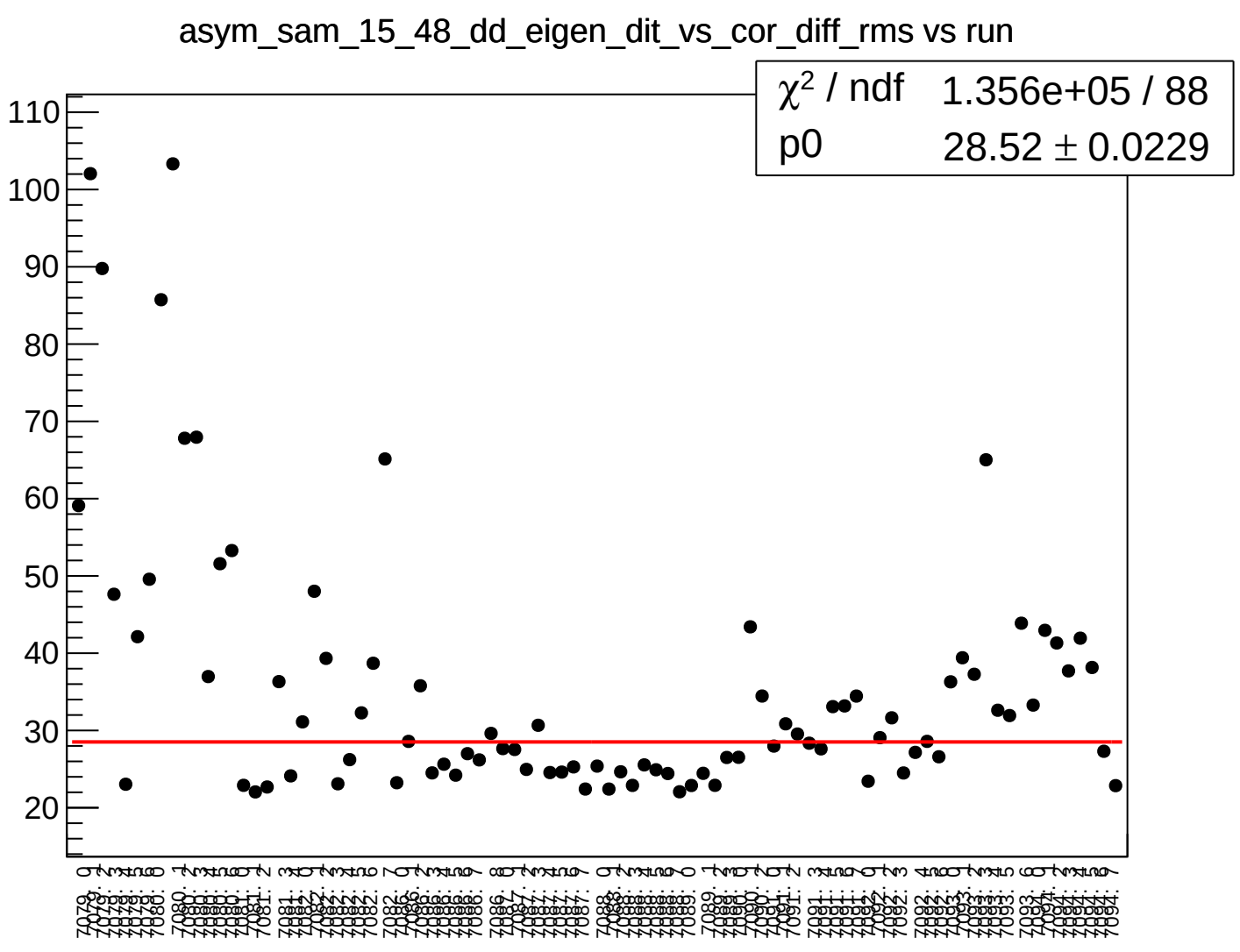

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.356e+05 / 88
p0 28.52 ± 0.0229
110
100
90
80
70
60
50
40
30
20

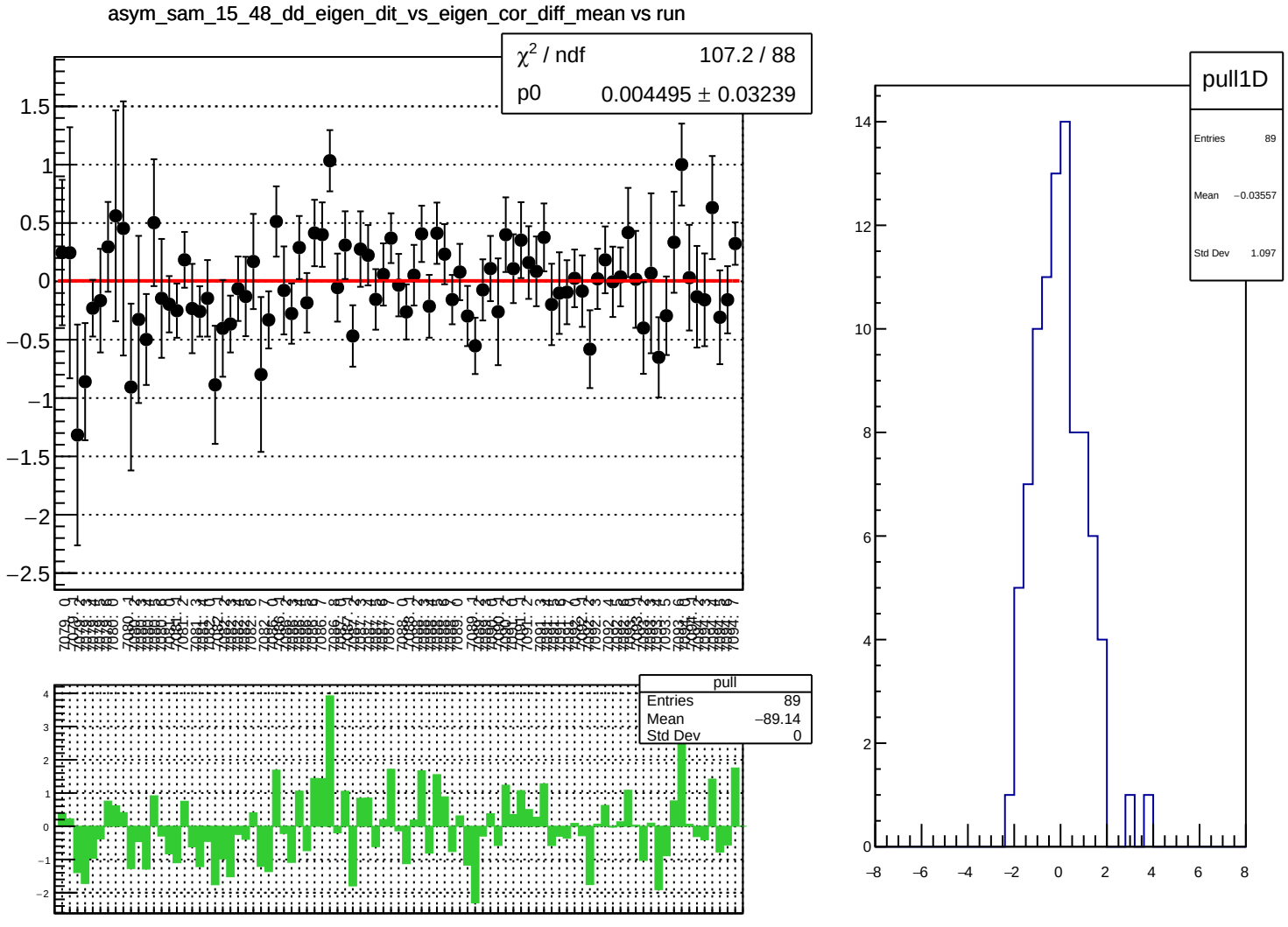

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.86 / 88
p0 −2.309e−06 ± 1.996e−06
pull
Entries 89
Mean −22.22
Std Dev 0

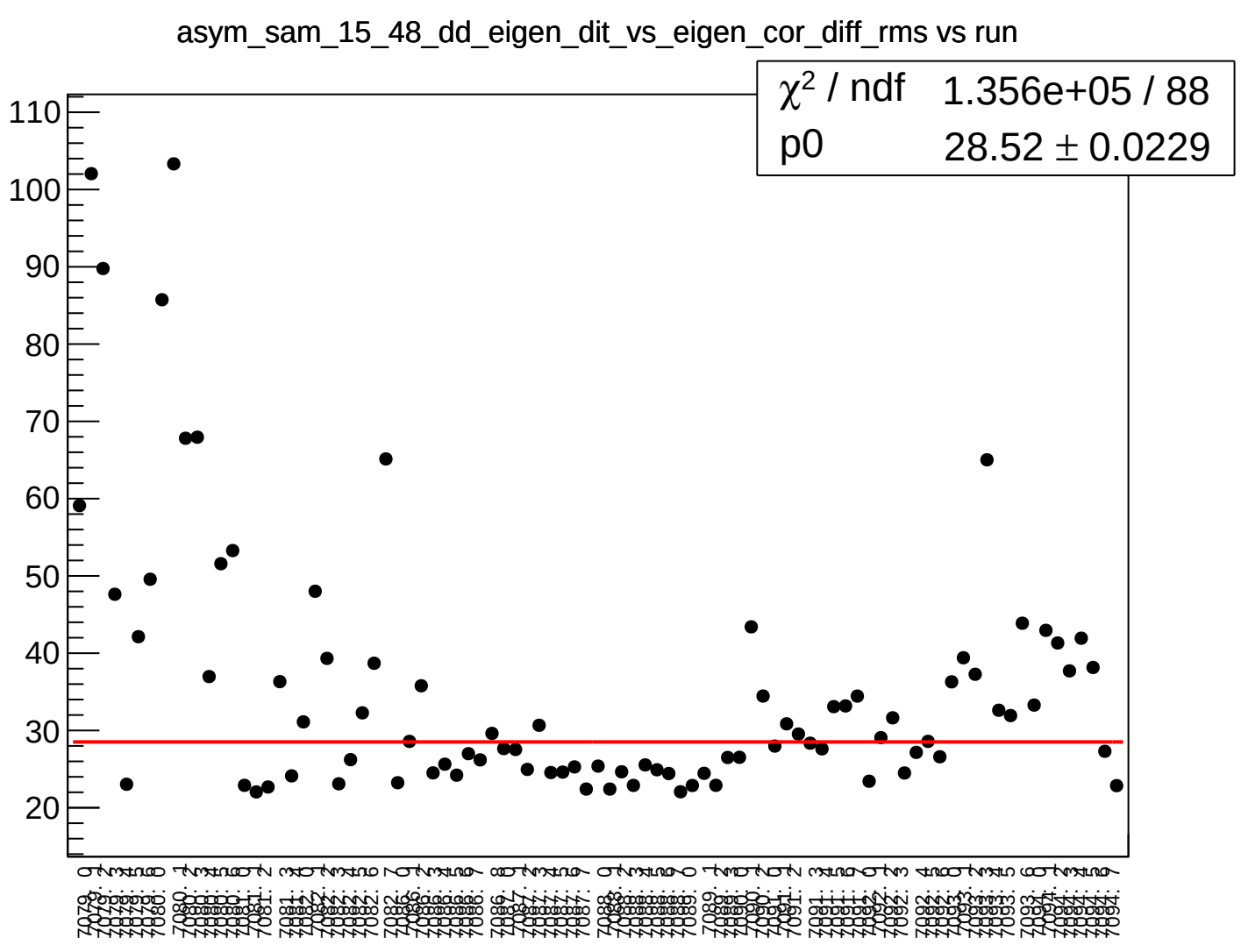

pull1D
Entries 89
Mean −0.05945
Std Dev 0.9572

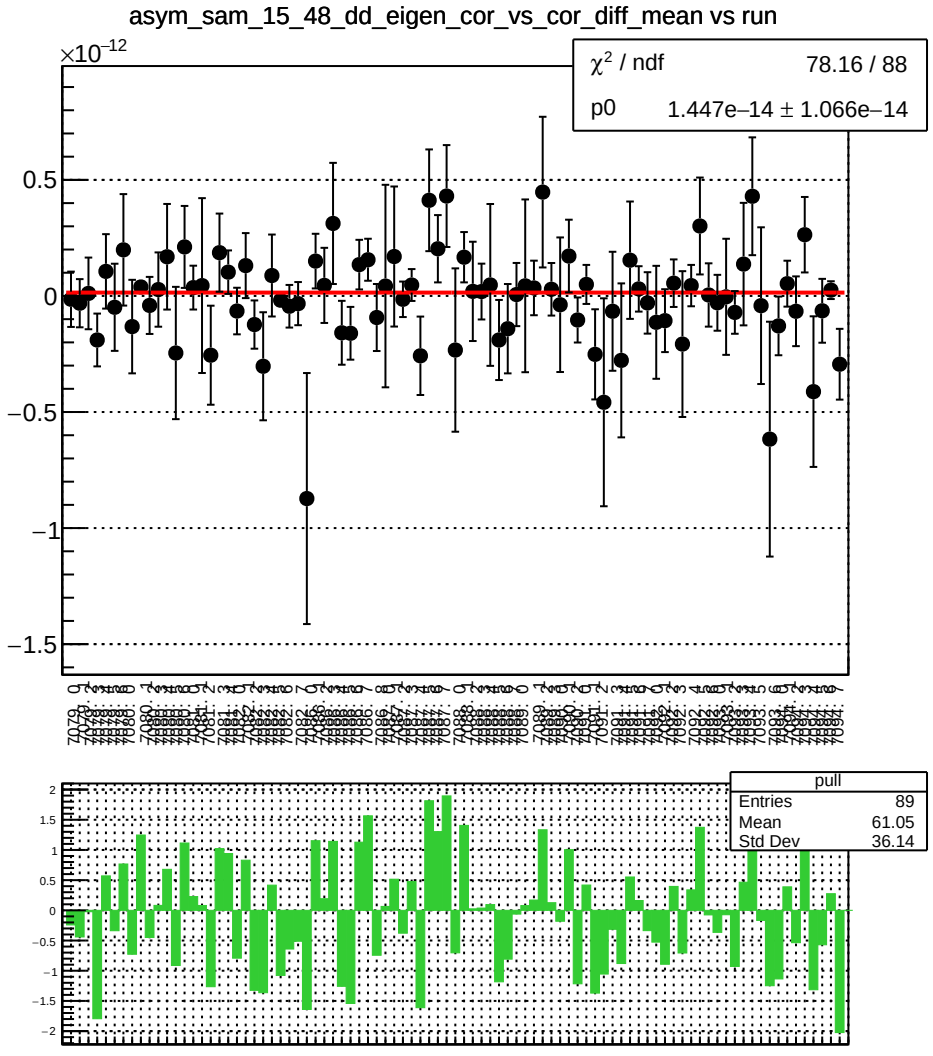

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.498e+04 / 88
p0 0.001785 ± 1.411e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

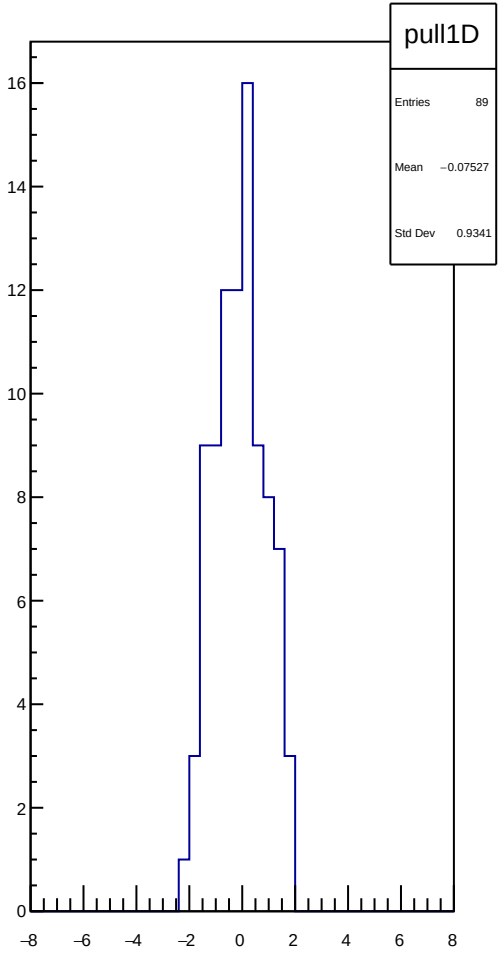

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 88
p0 0.004495 ± 0.03239
pull
Entries 89
Mean −89.14
Std Dev 0
pull1D
Entries 89
Mean −0.03557
Std Dev 1.097

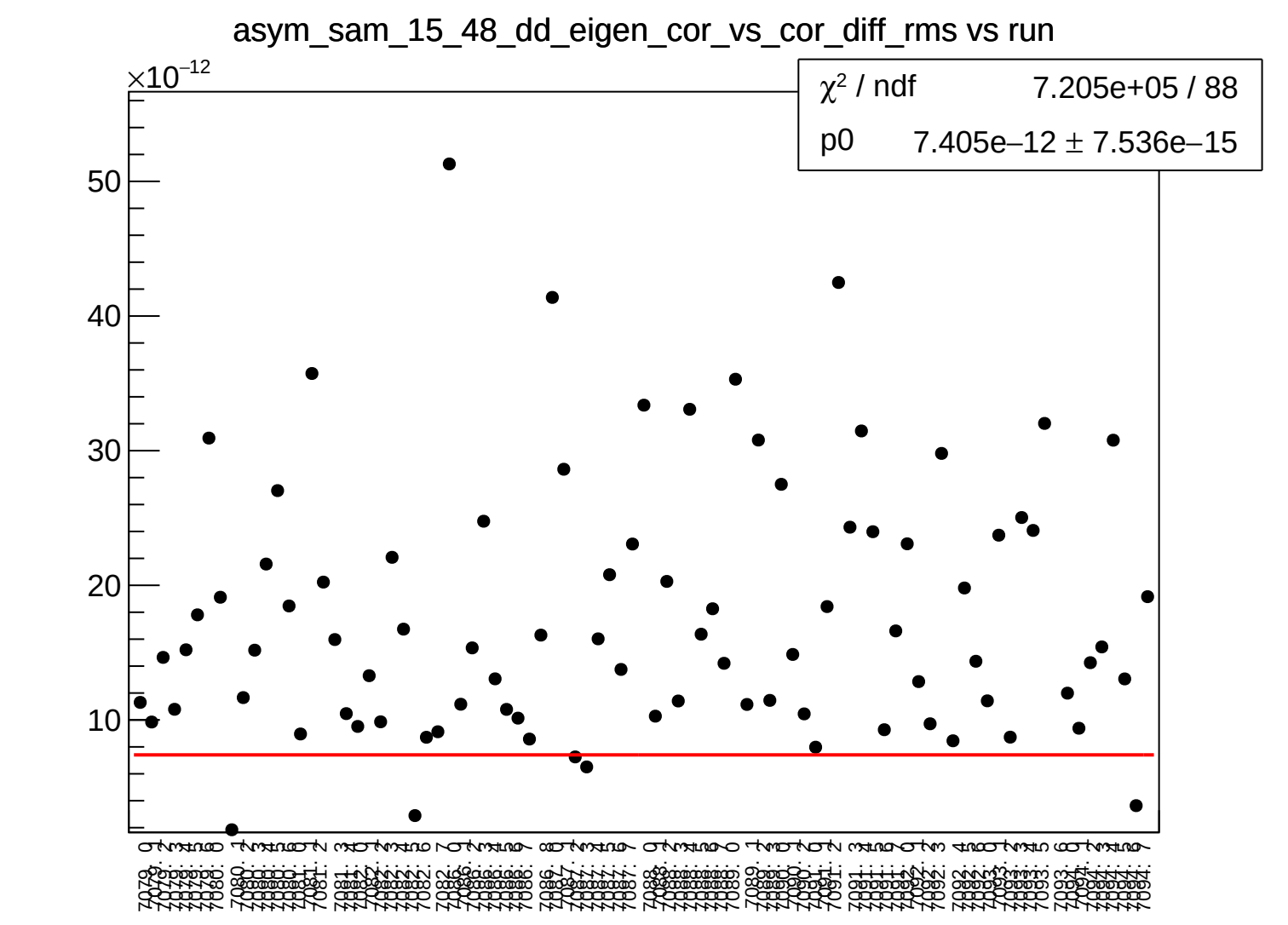

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.356e+05 / 88
p0 28.52 ± 0.0229
110
100
90
80
70
60
50
40
30
20

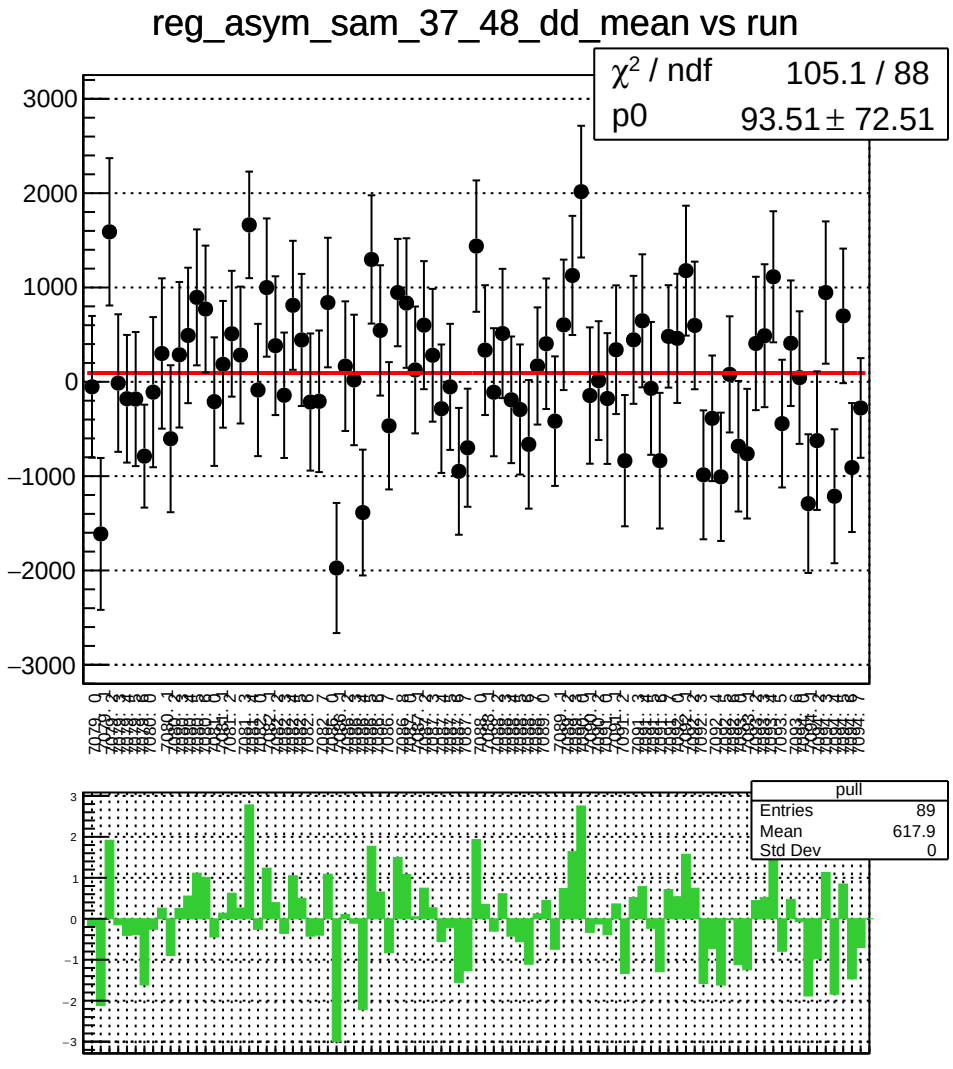

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 88
p0 0.004495 ± 0.03239
pull
Entries 89
Mean −89.14
Std Dev 0
pull1D
Entries 89
Mean −0.03557
Std Dev 1.097

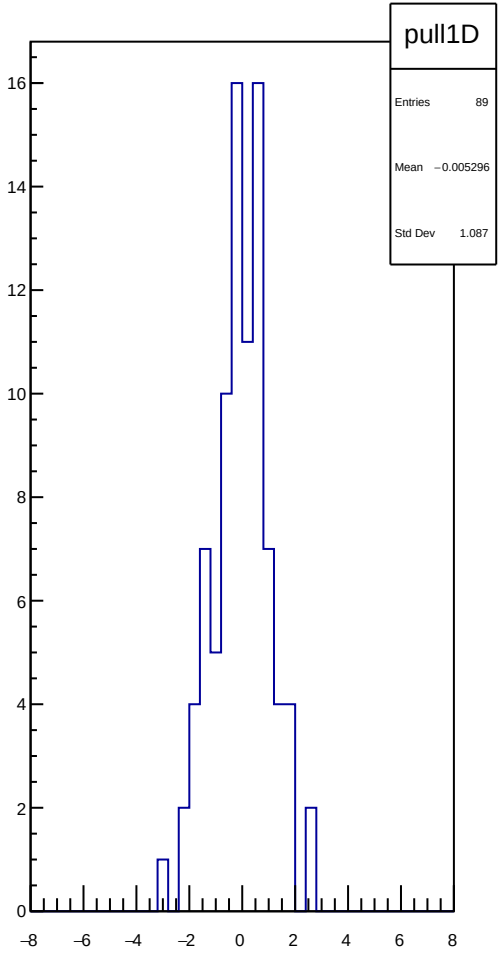

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.356e+05 / 88
p0 28.52 ± 0.0229
110
100
90
80
70
60
50
40
30
20


asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.16 / 88
p0 1.447e−14 ± 1.066e−14
0.5
0
−0.5
−1
−1.5
pull
Entries 89
Mean 61.05
Std Dev 36.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

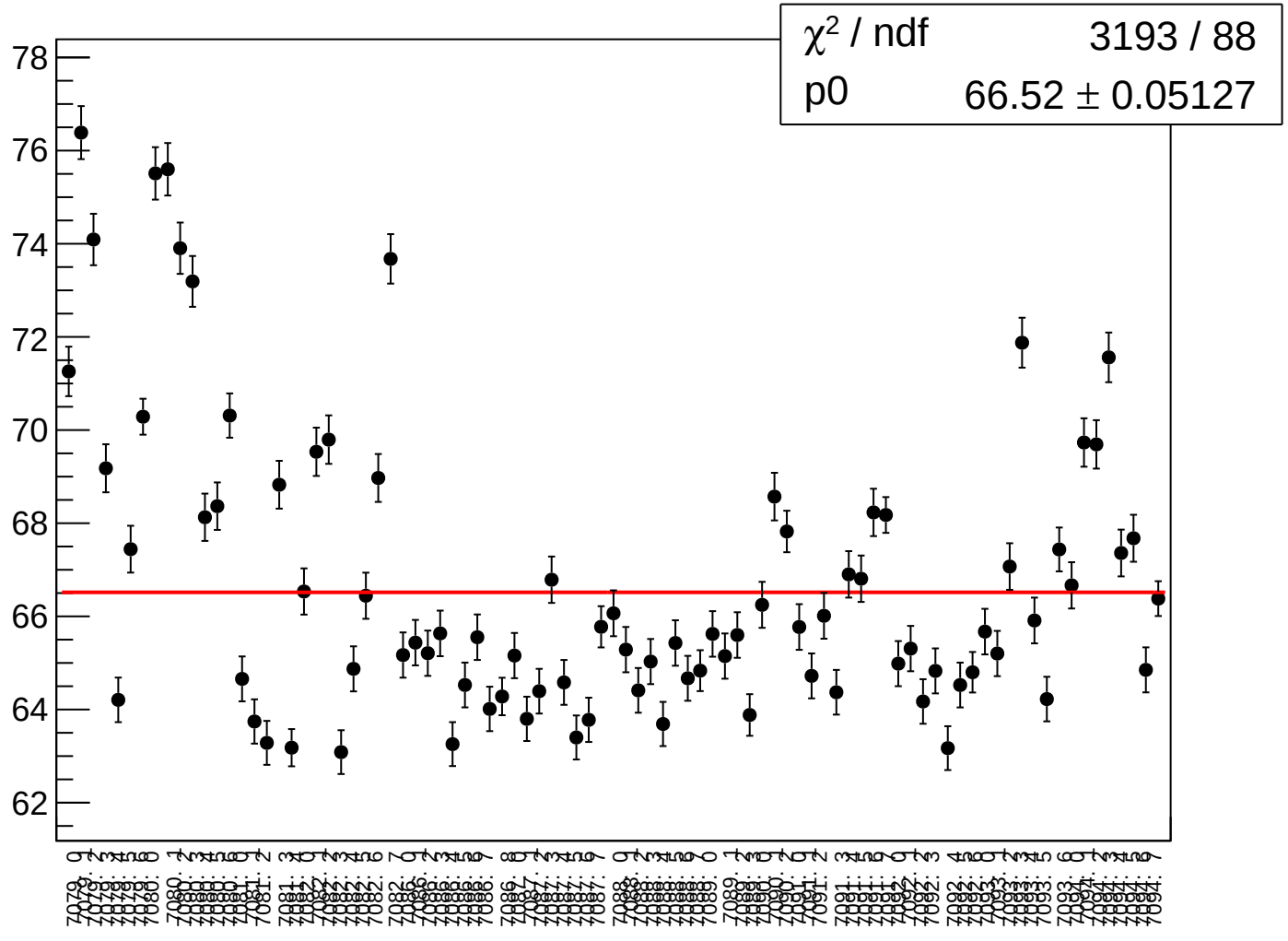

pull1D
Entries 89
Mean −0.07527
Std Dev 0.9341
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

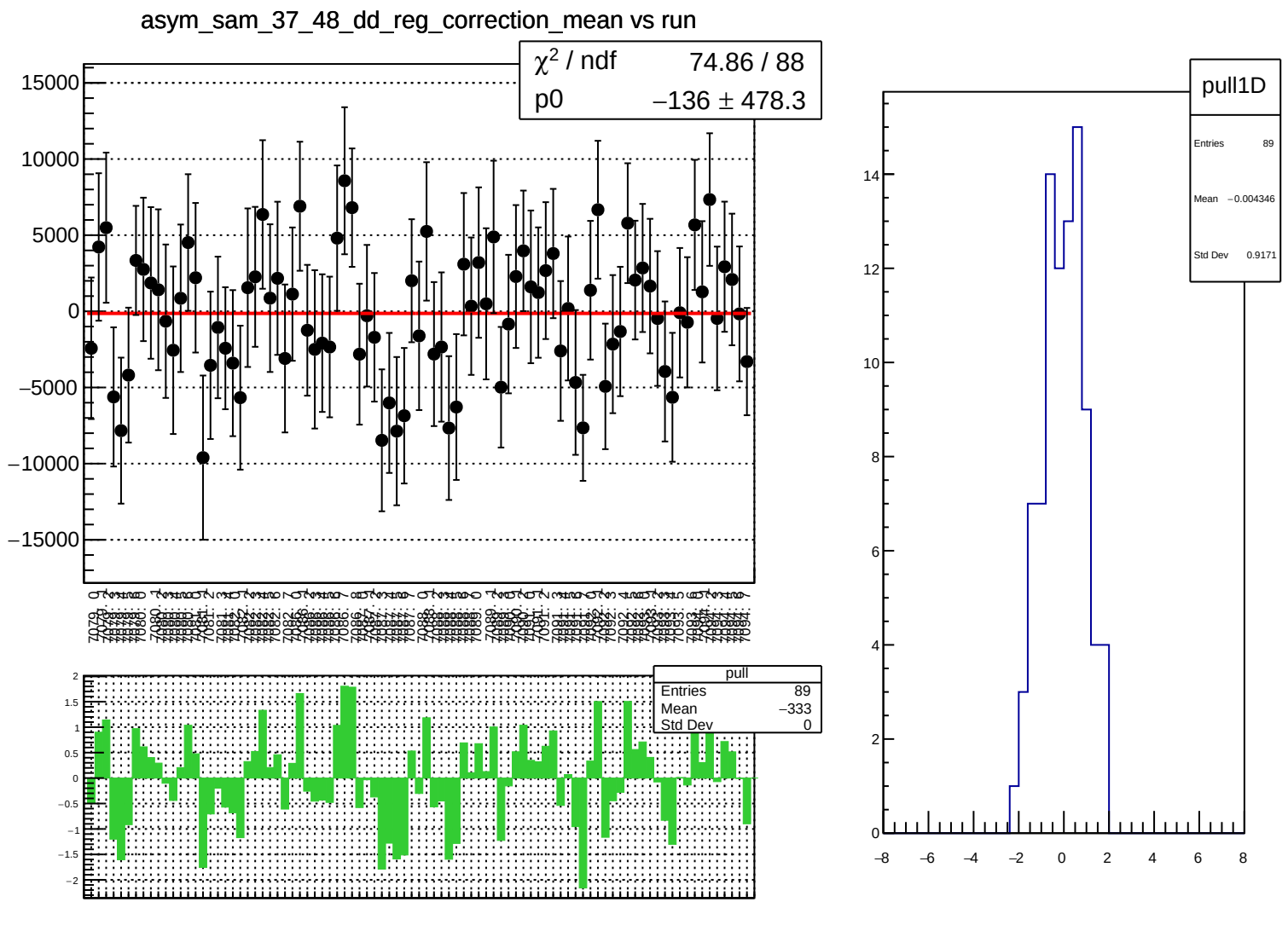

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.205e+05 / 88
p0 7.405e−12 ± 7.536e−15
50
40
30
20
10

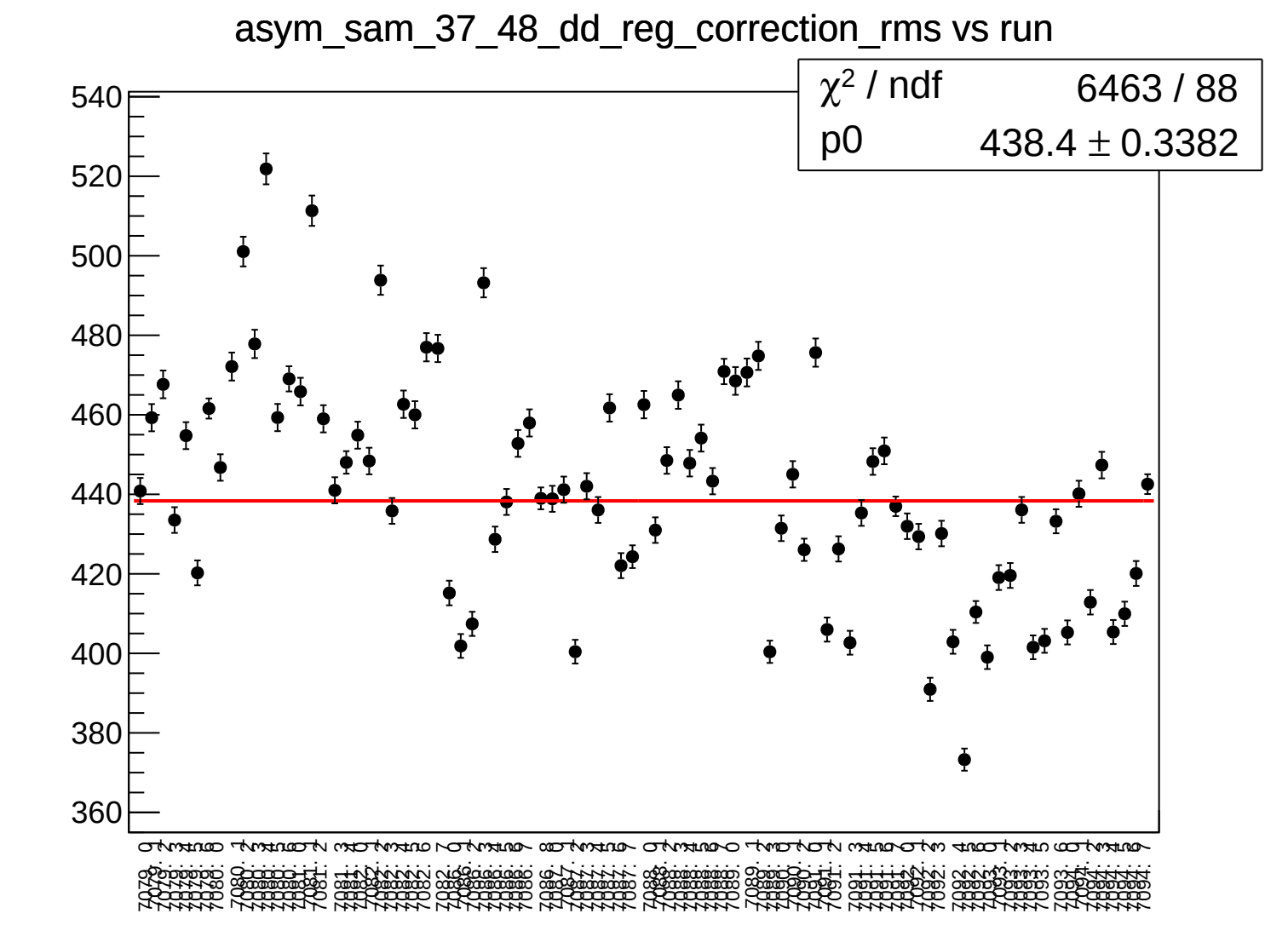

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 105.1 / 88
p0 93.51 ± 72.51
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 617.9
Std Dev 0
3
2
1
0
−1
−2
−3

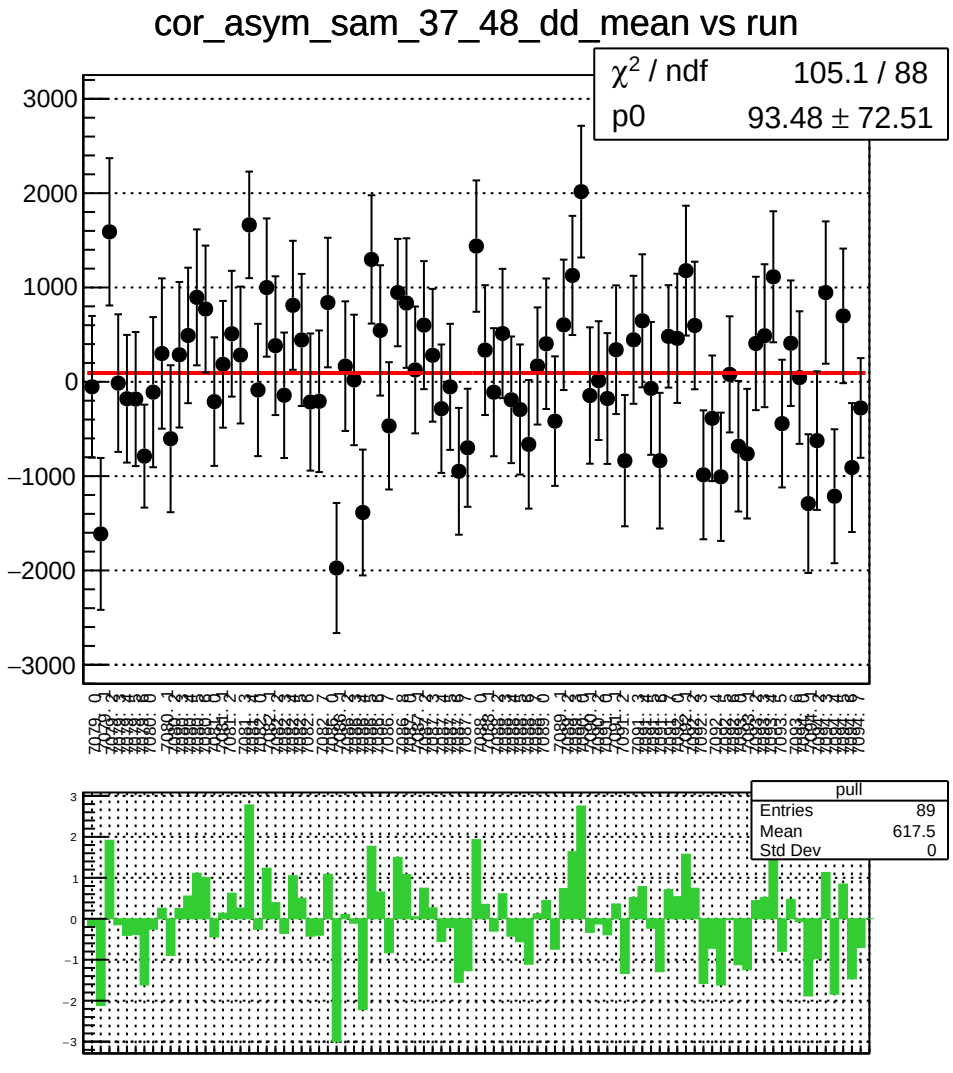

pull1D
Entries 89
Mean −0.005296
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

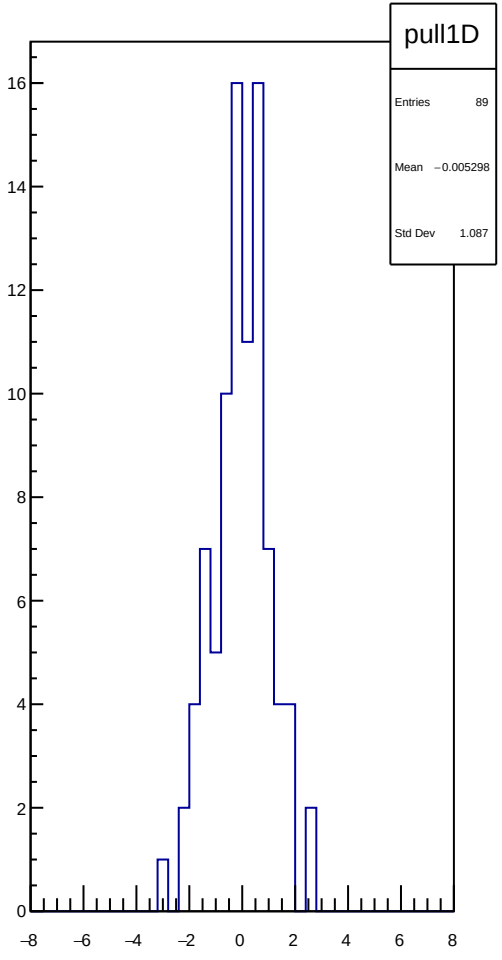
reg_asym_sam_37_48_dd_rms vs run

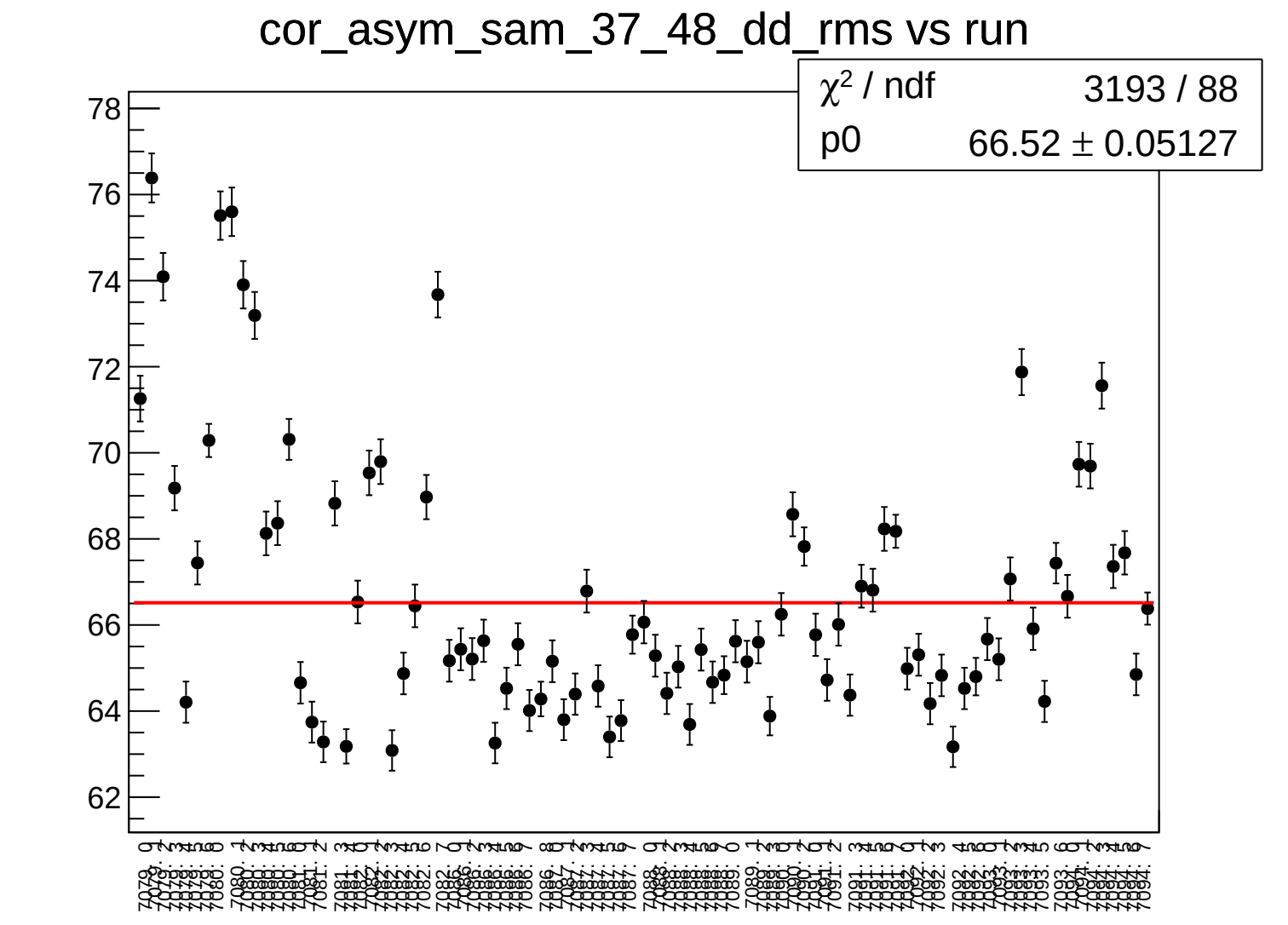


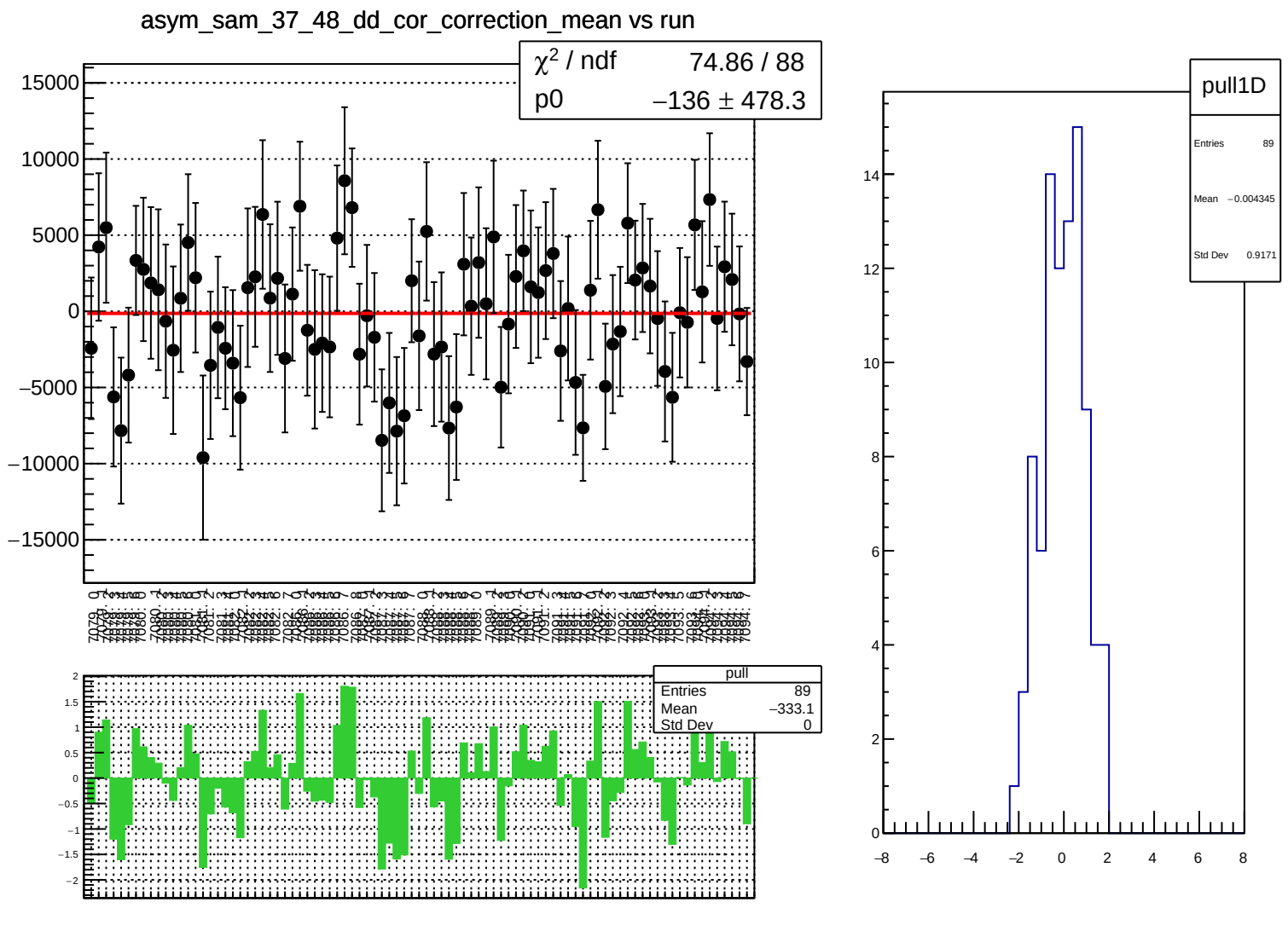

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 74.86 / 88
p0 −136 ± 478.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −333
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.004346
Std Dev 0.9171
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

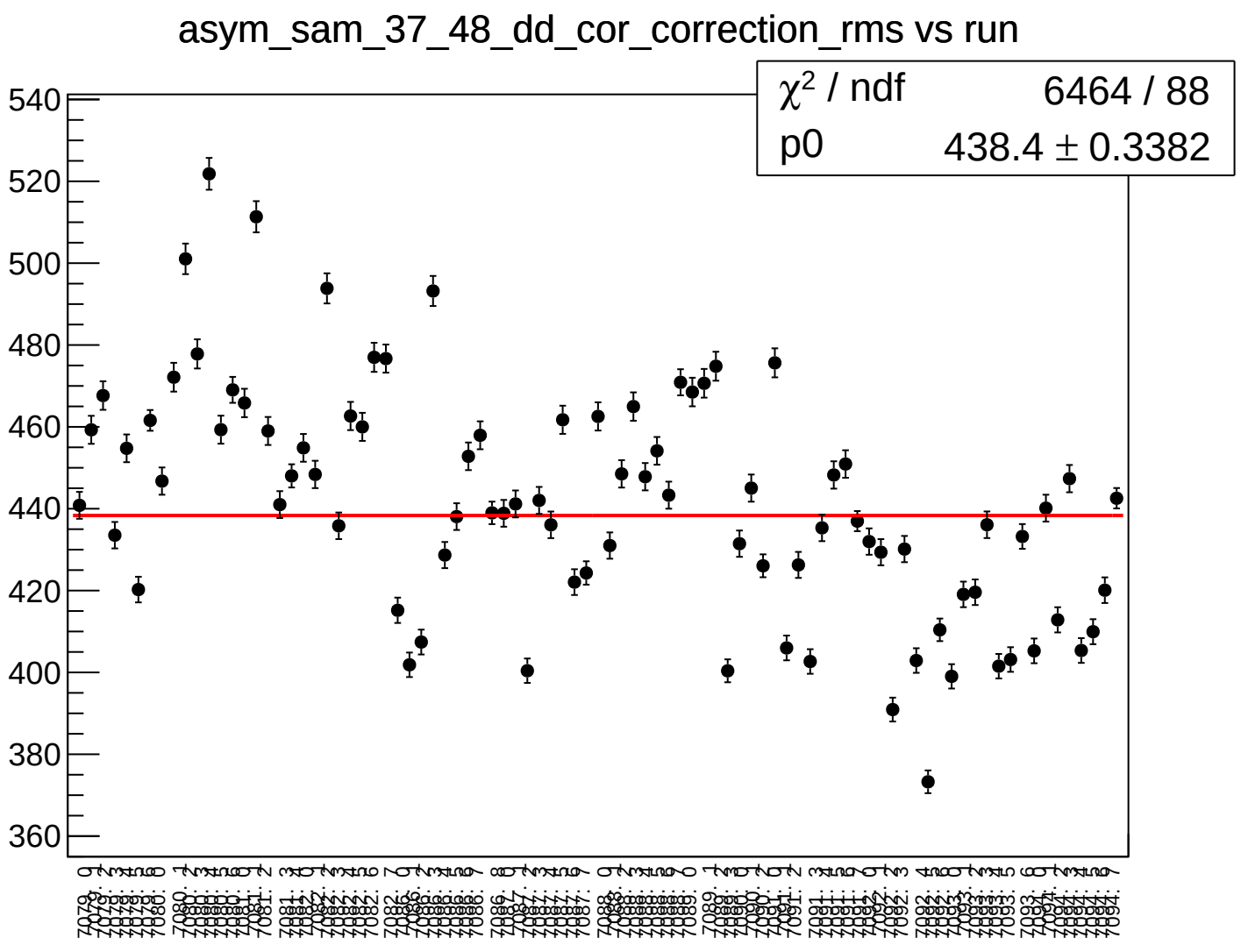

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 6463 / 88
p0 438.4 ± 0.3382
540
520
500
480
460
440
420
400
380
360

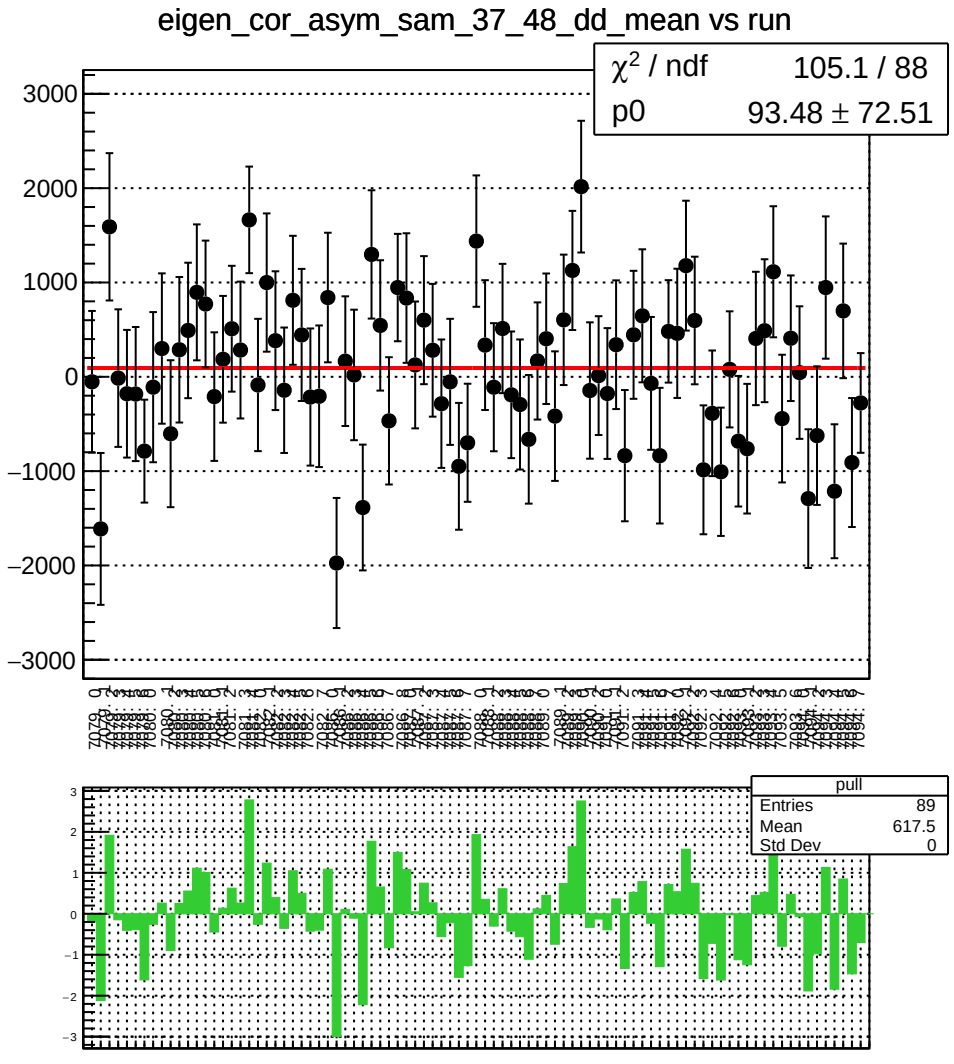

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 105.1 / 88
p0 93.48 ± 72.51
pull
Entries 89
Mean 617.5
Std Dev 0

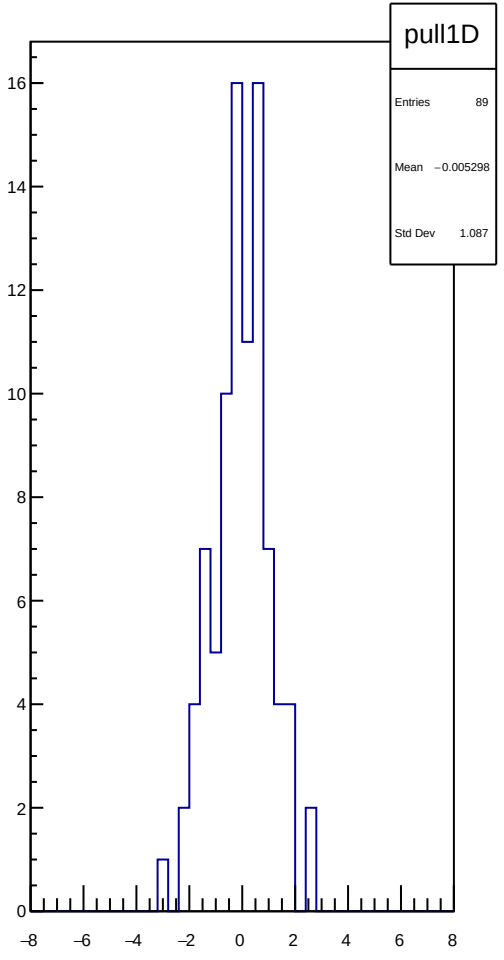

pull1D
Entries 89
Mean −0.005298
Std Dev 1.087

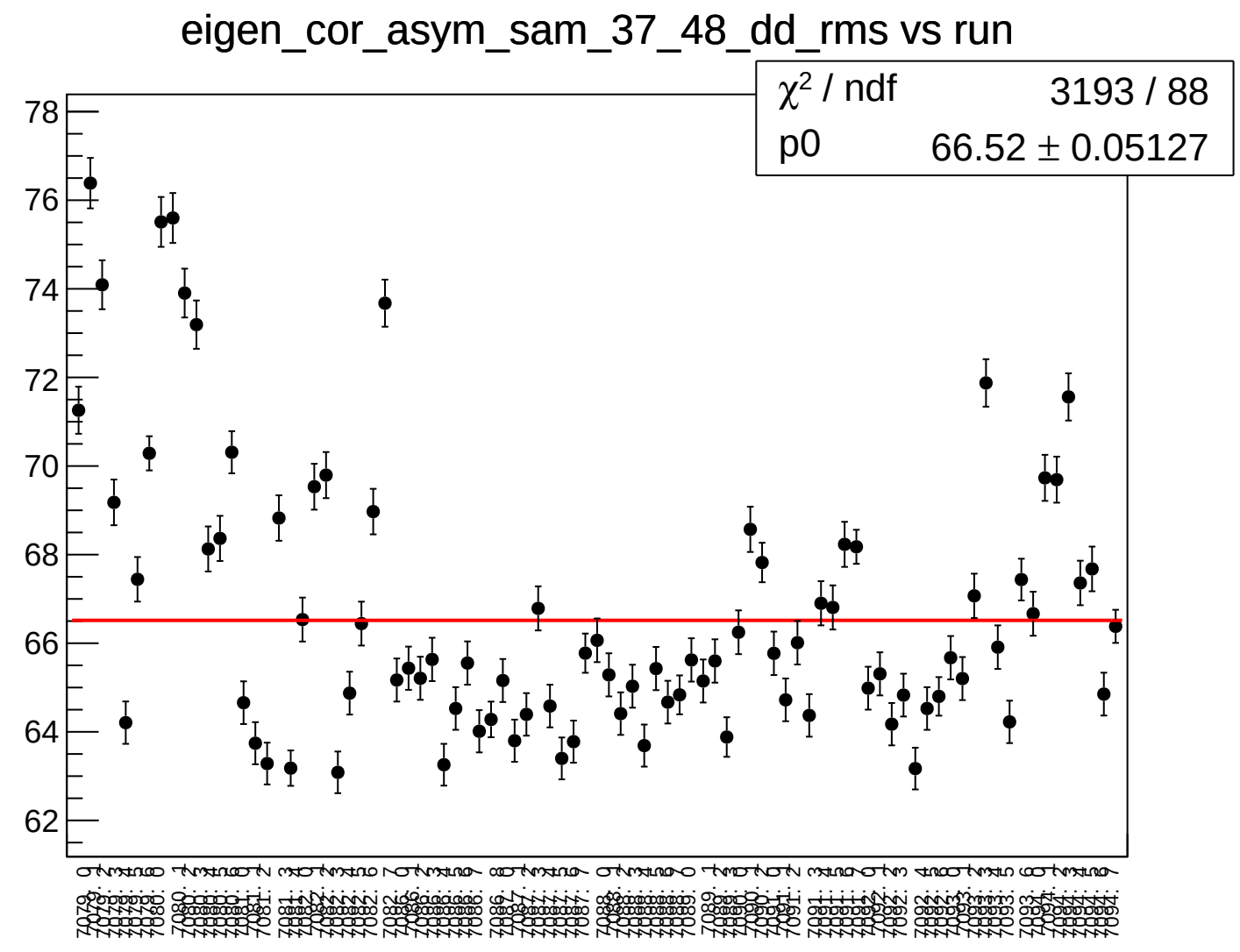

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3193 / 88
p0 66.52 ± 0.05127
78
76
74
72
70
68
66
64
62

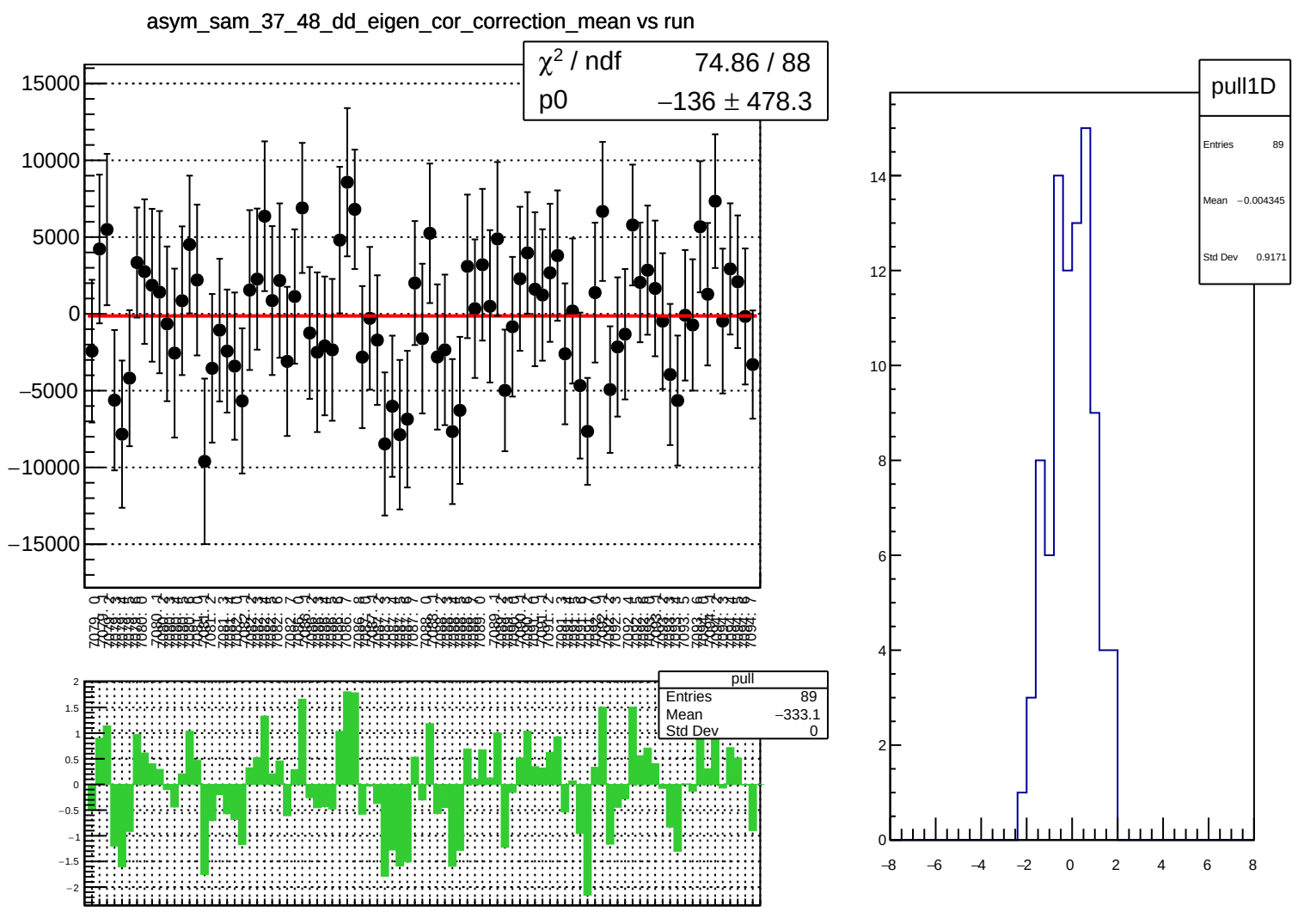

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 74.86 / 88
p0 −136 ± 478.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −333.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.004345
Std Dev 0.9171
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

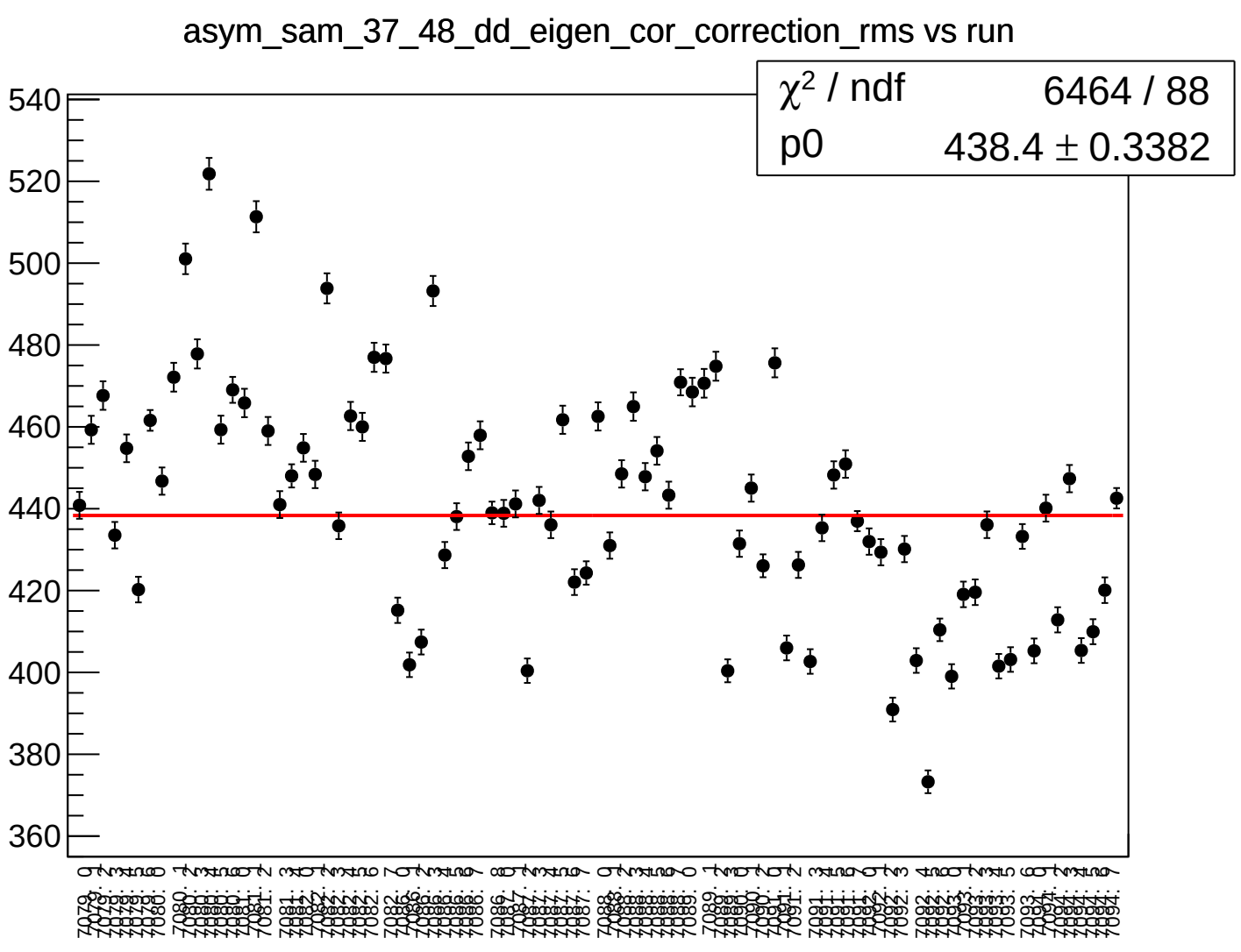

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 6464 / 88
p0 438.4 ± 0.3382
540
520
500
480
460
440
420
400
380
360

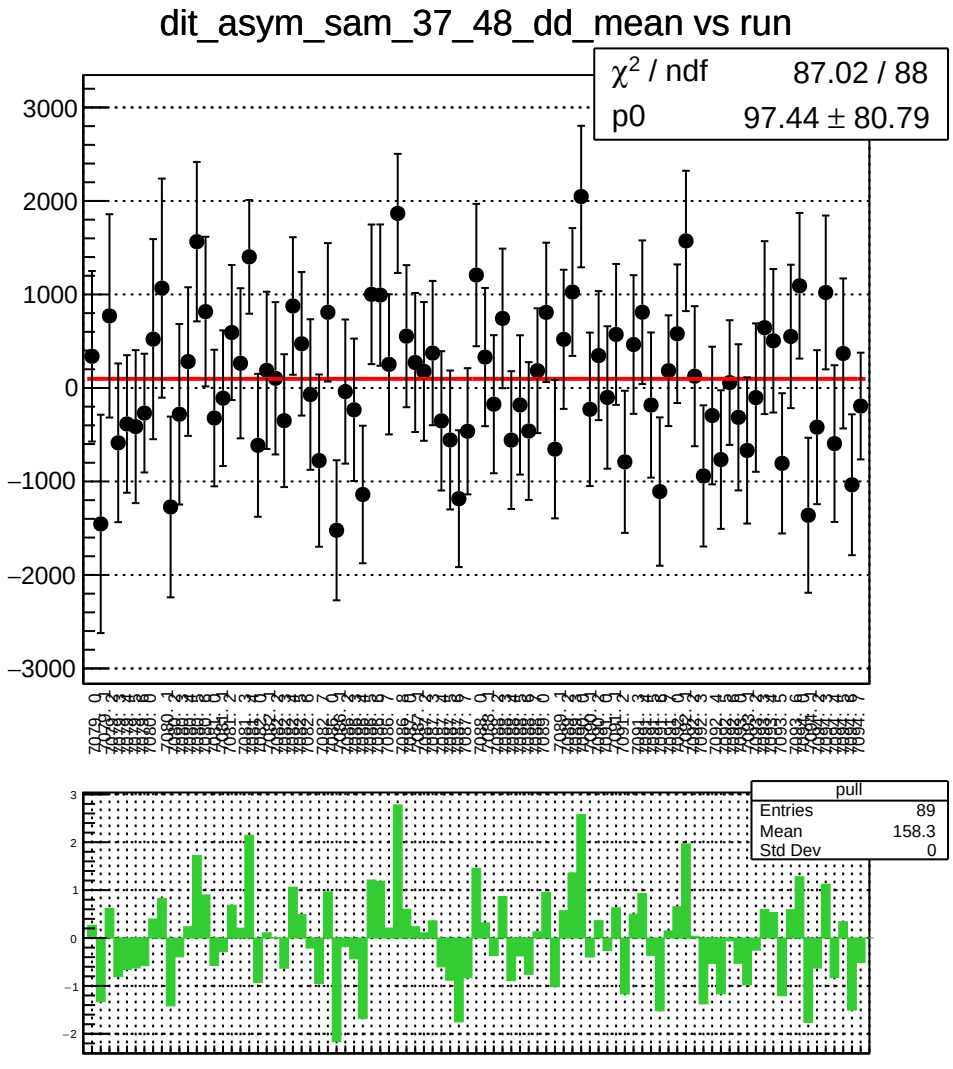

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 105.1 / 88
p0 93.48 ± 72.51
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 617.5
Std Dev 0
3
2
1
0
−1
−2
−3

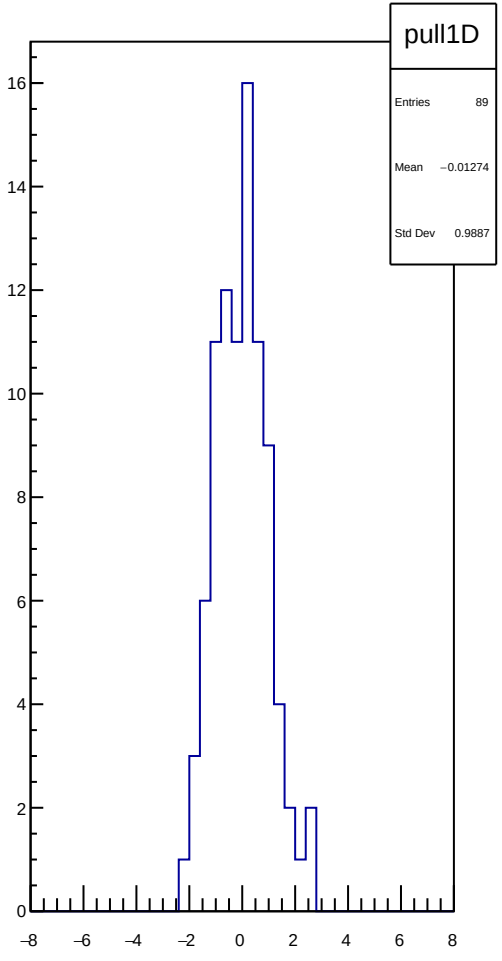

pull1D
Entries 89
Mean −0.005298
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

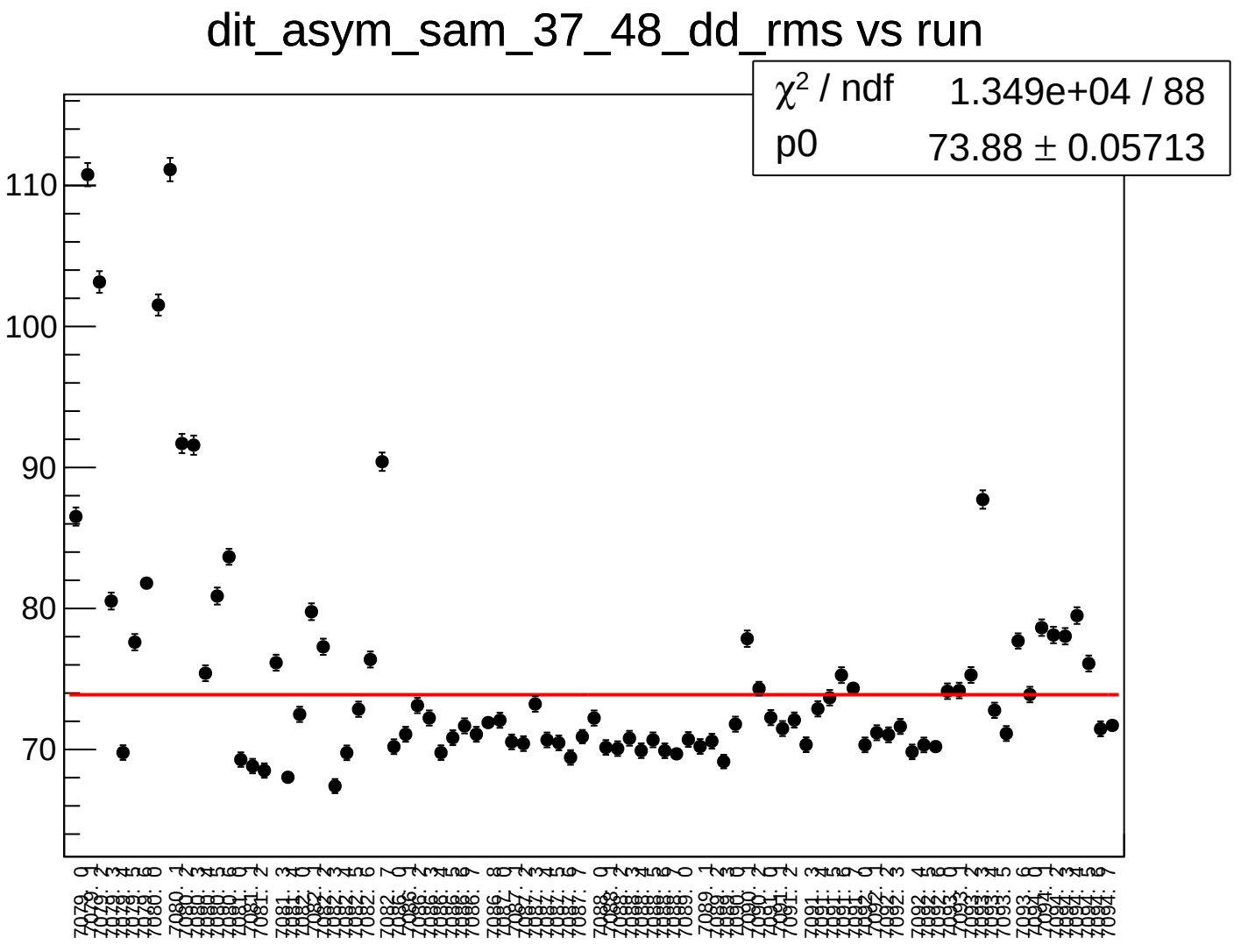

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3193 / 88
p0 66.52 ± 0.05127
78
76
74
72
70
68
66
64
62

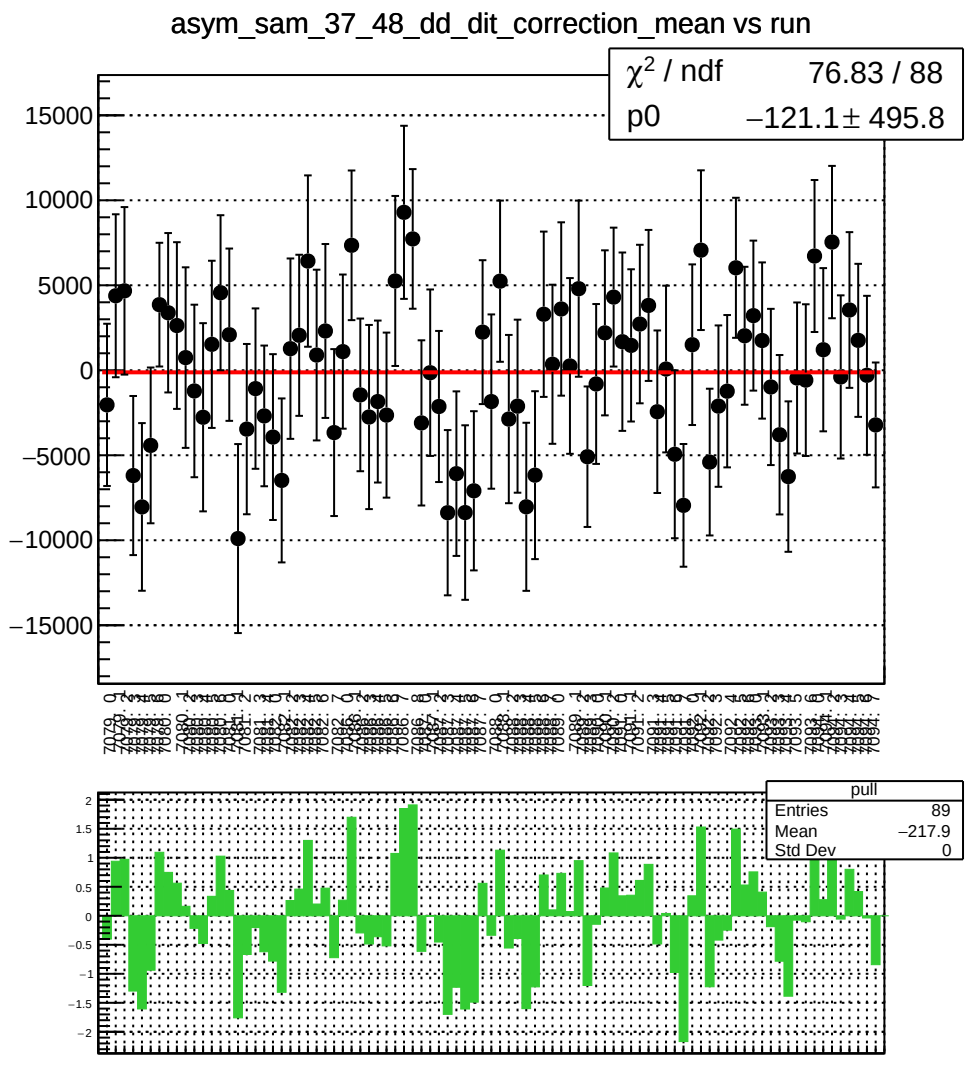

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.86 / 88
p0 −136 ± 478.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −333.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.004345
Std Dev 0.9171
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

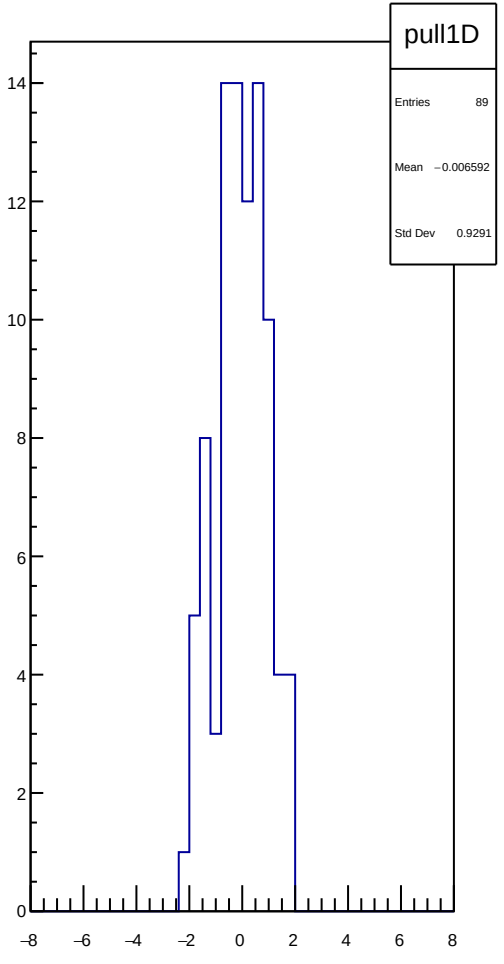

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6464 / 88
p0 438.4 ± 0.3382
540
520
500
480
460
440
420
400
380
360

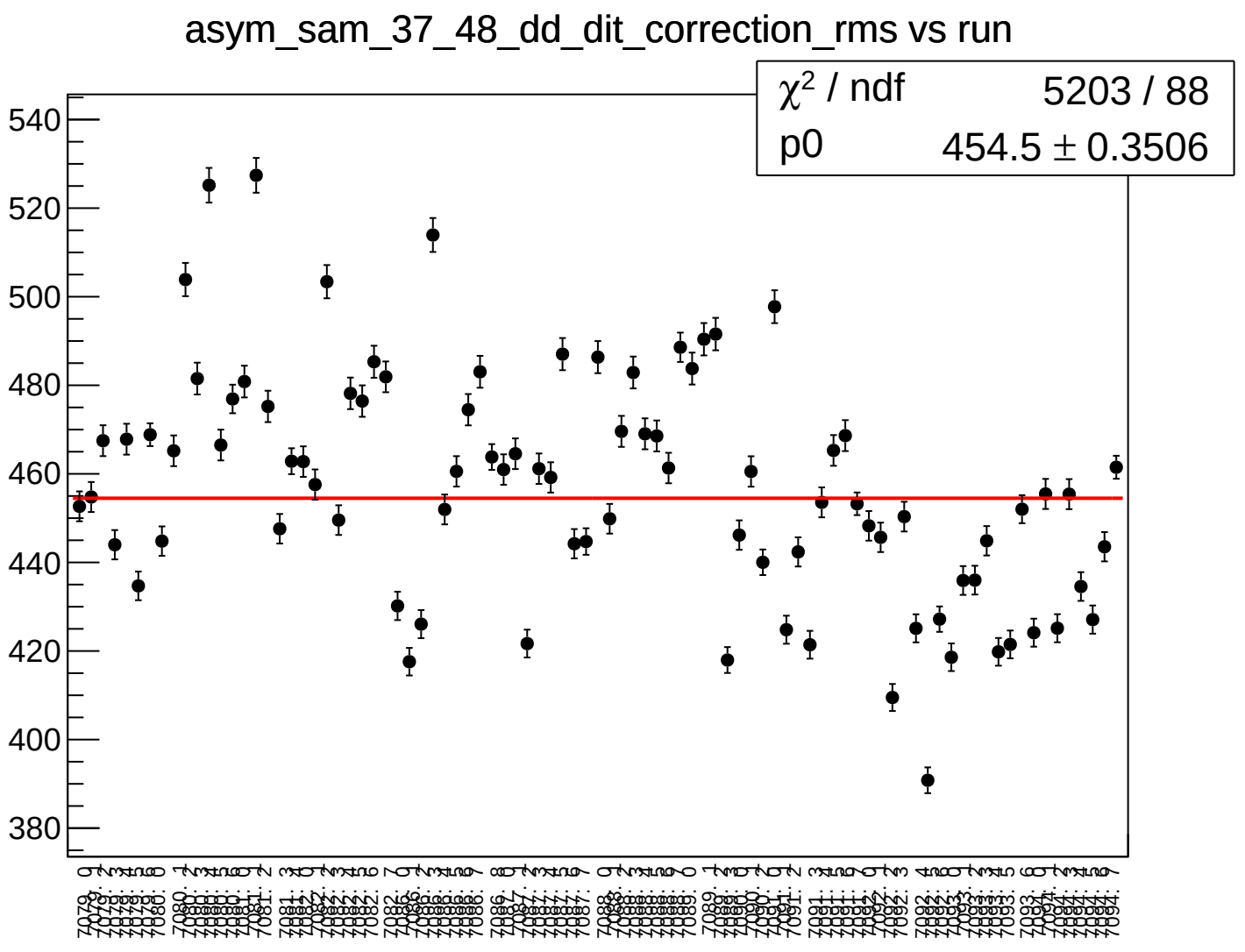

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 87.02 / 88
p0 97.44 ± 80.79
pull
Entries 89
Mean 158.3
Std Dev 0

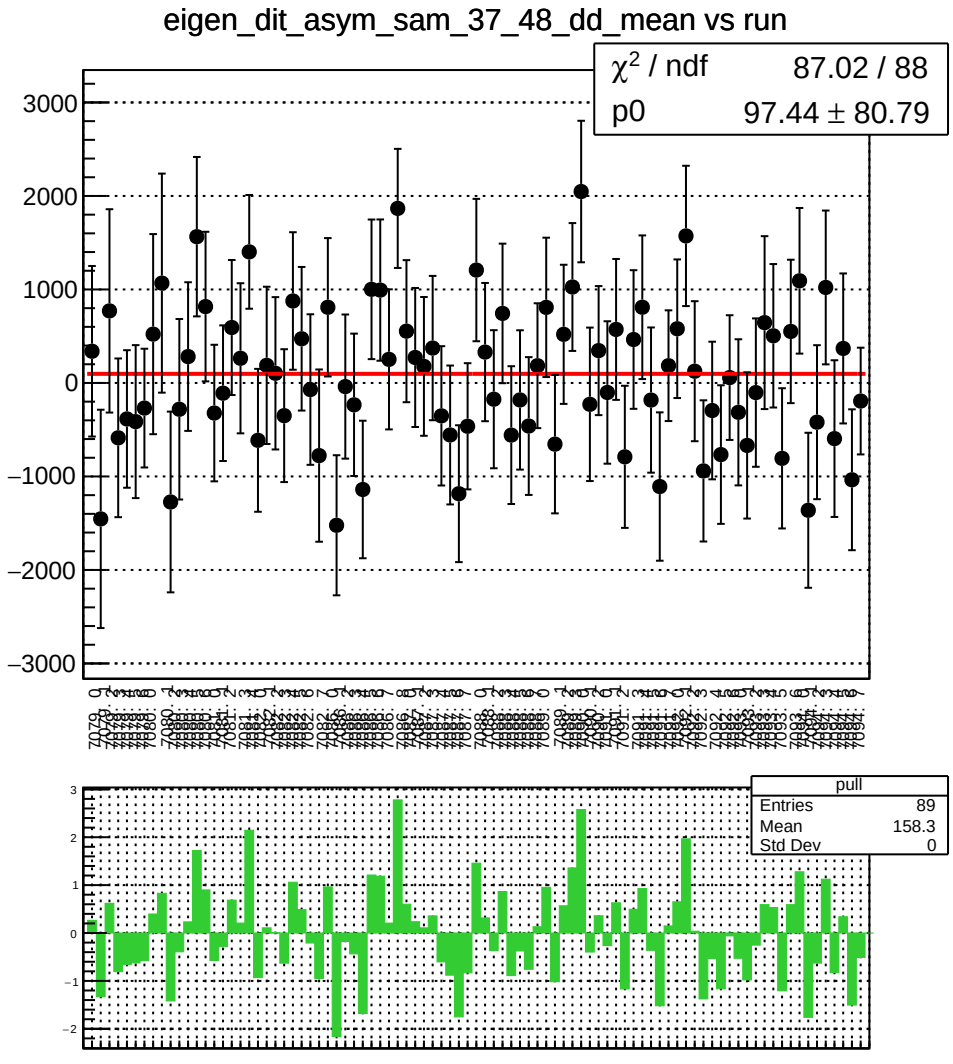

pull1D
Entries 89
Mean −0.01274
Std Dev 0.9887

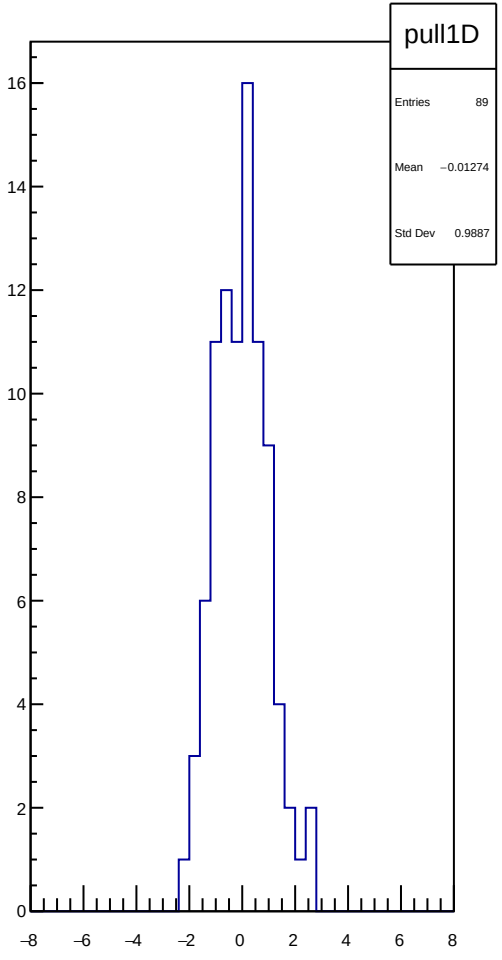

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.349e+04 / 88
p0 73.88 ± 0.05713
110
100
90
80
70

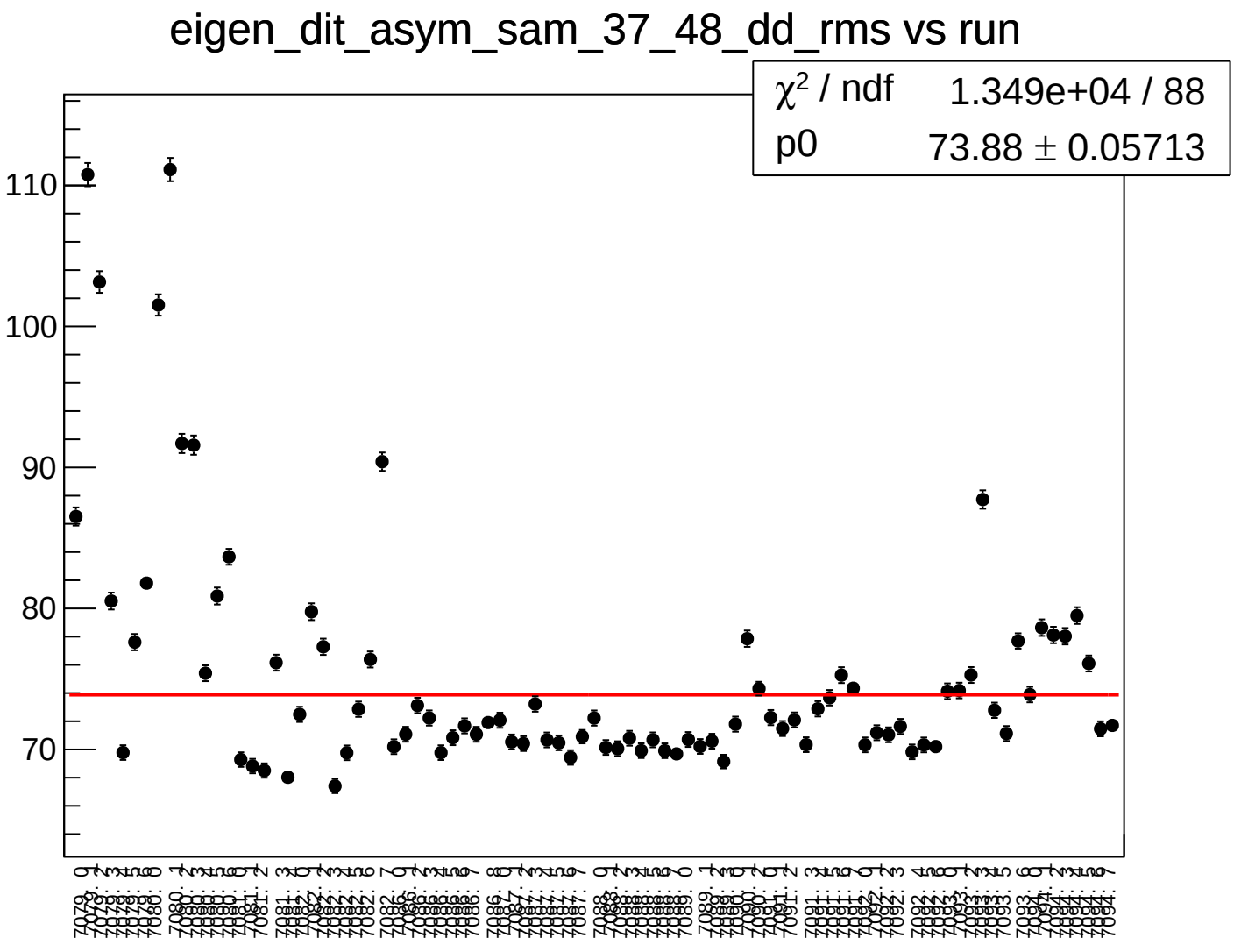

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 76.83 / 88
p0 −121.1 ± 495.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −217.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

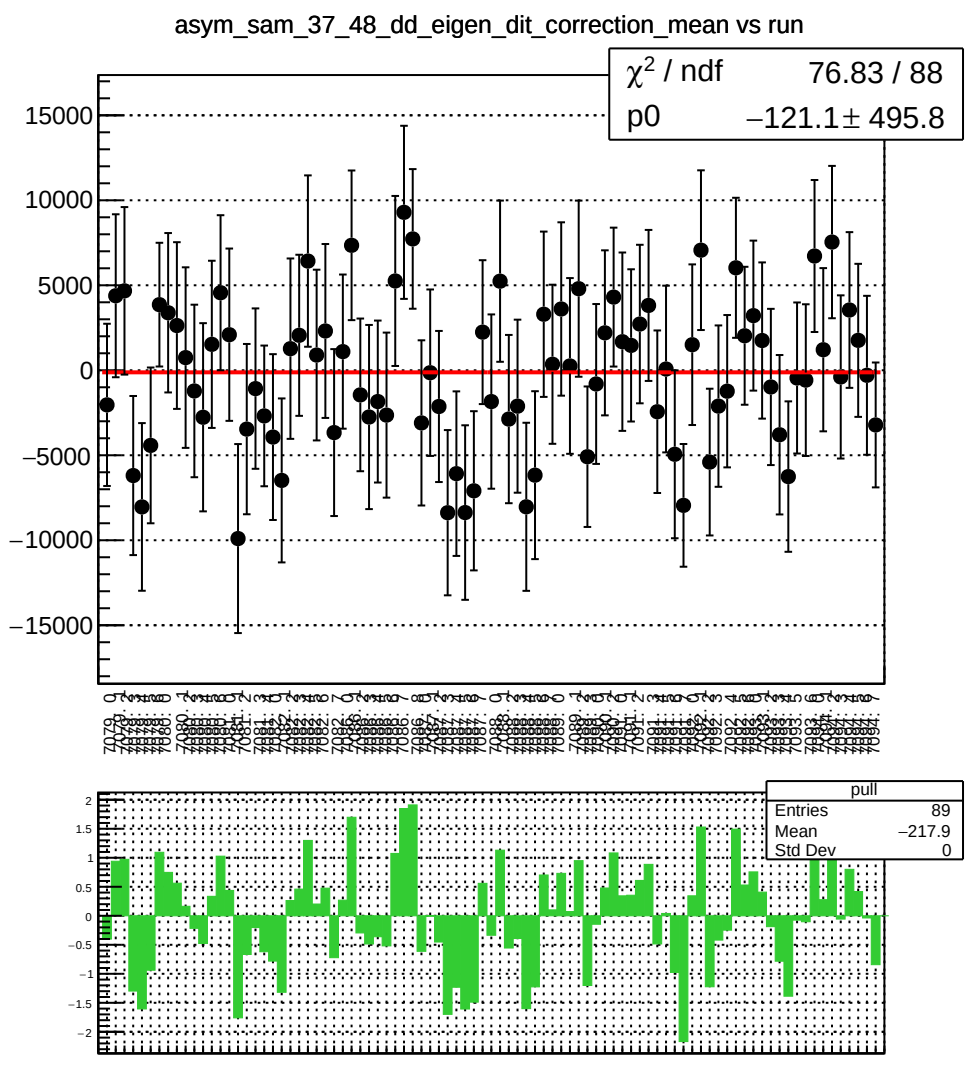

pull1D
Entries 89
Mean −0.006592
Std Dev 0.9291
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

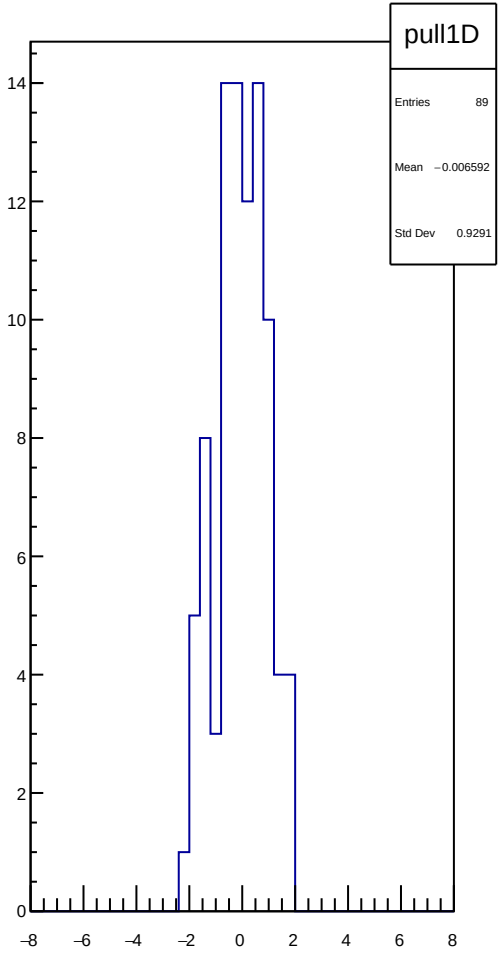

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 5203 / 88
p0 454.5 ± 0.3506
540
520
500
480
460
440
420
400
380

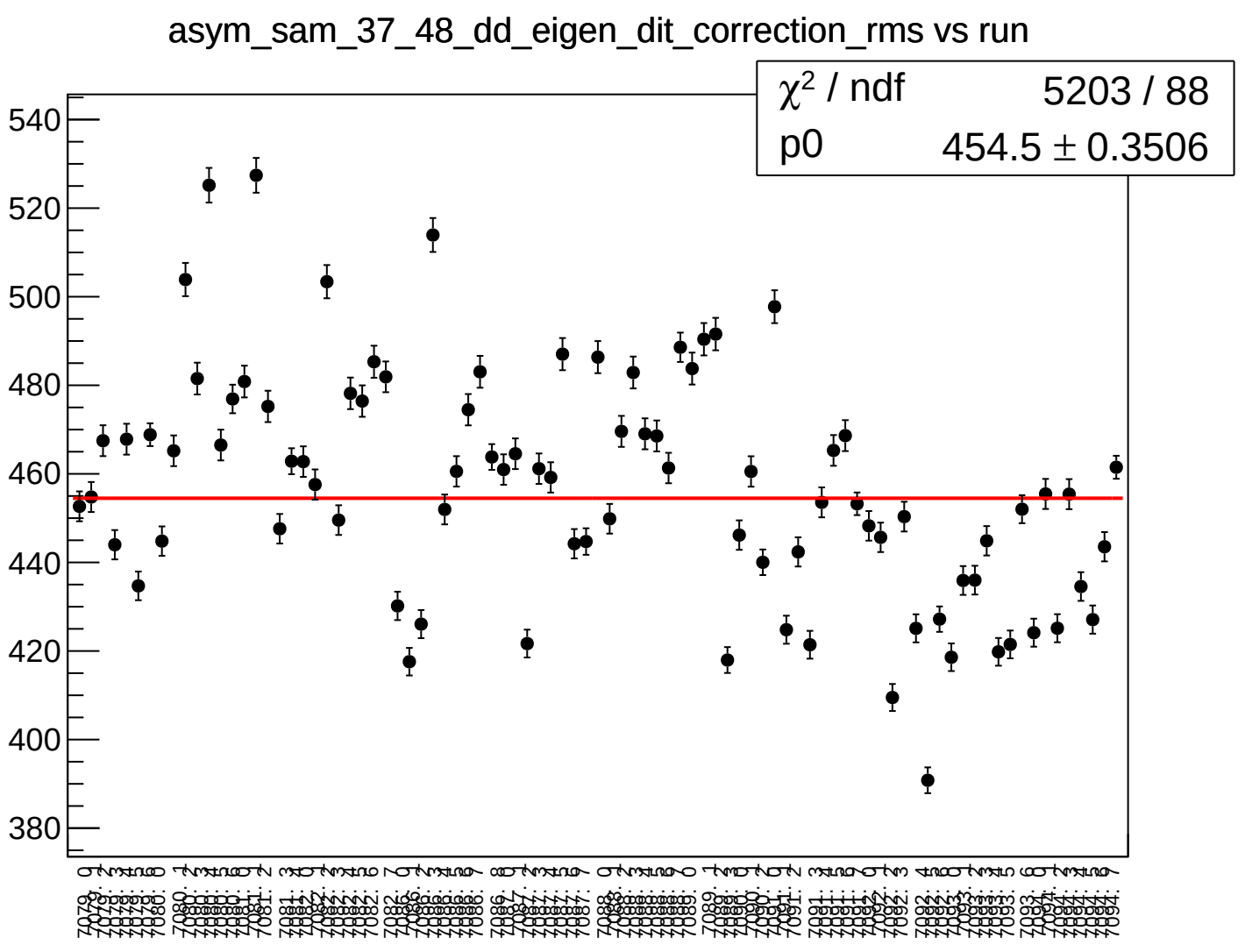

eigen_dit_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 87.02 / 88
p0 97.44 ± 80.79
pull
Entries 89
Mean 158.3
Std Dev 0

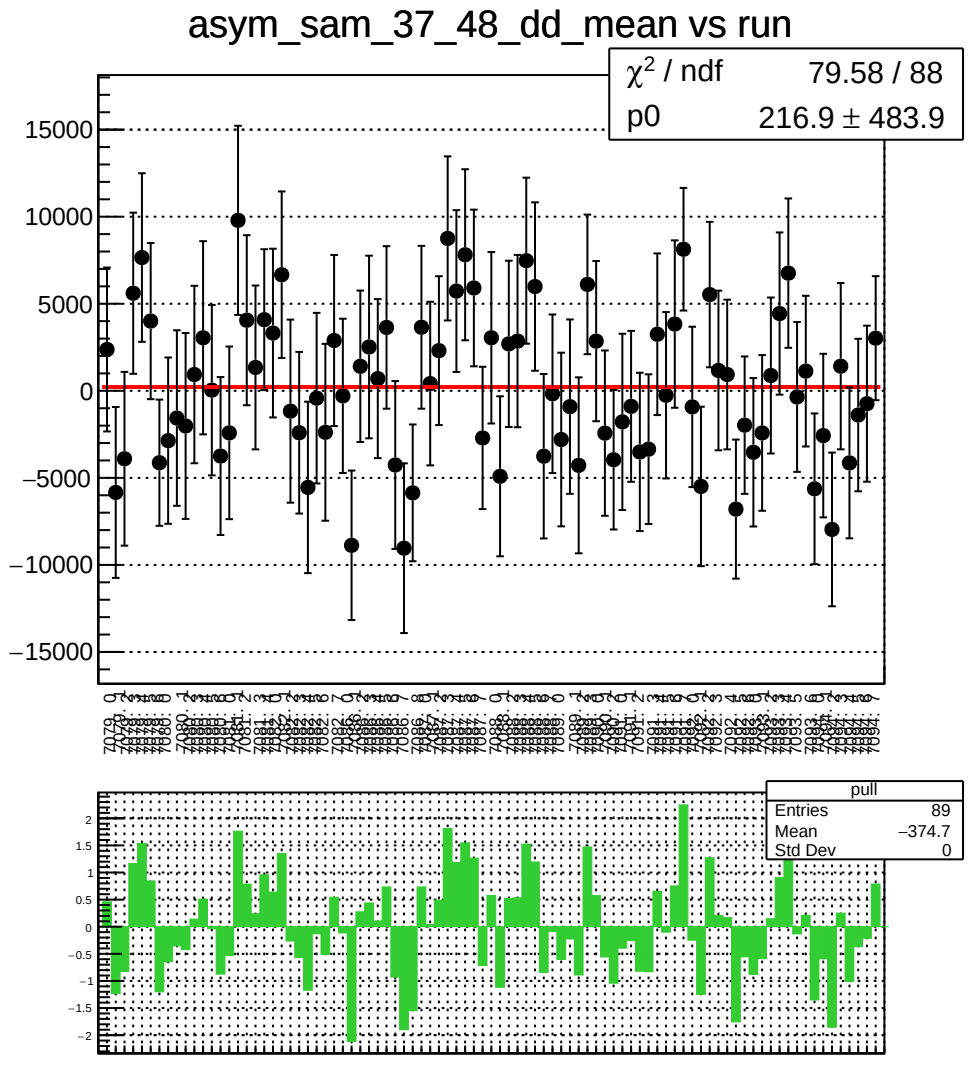

pull1D
Entries 89
Mean −0.01274
Std Dev 0.9887

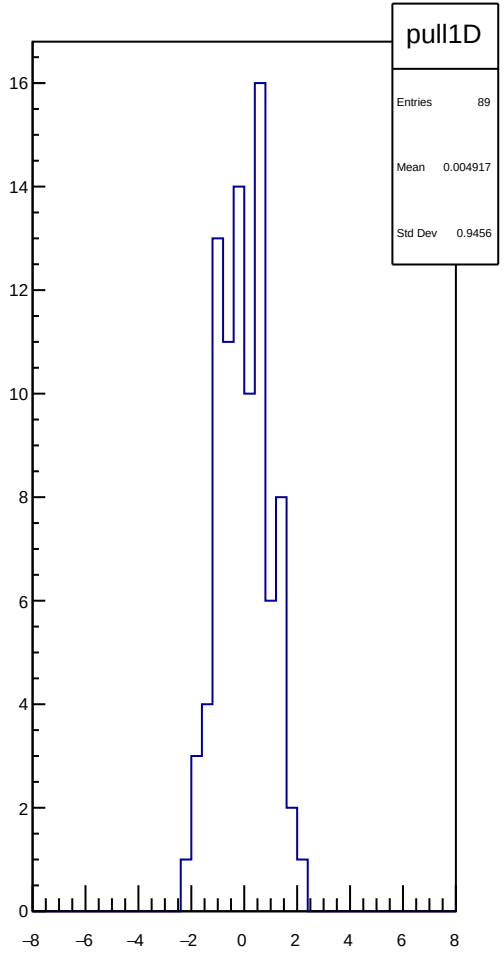

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.349e+04 / 88
p0 73.88 ± 0.05713
110
100
90
80
70

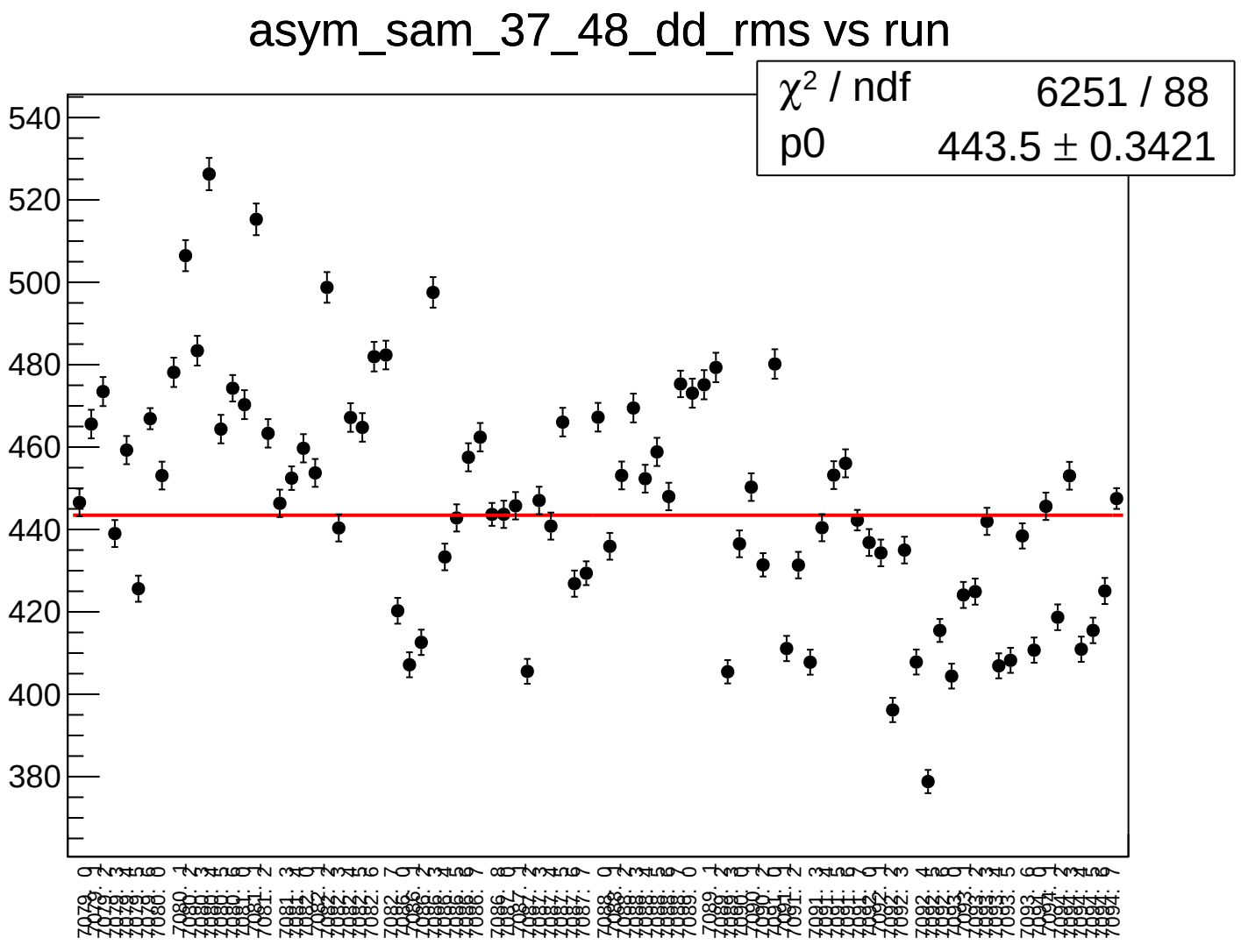

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.83 / 88
p0 −121.1 ± 495.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −217.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

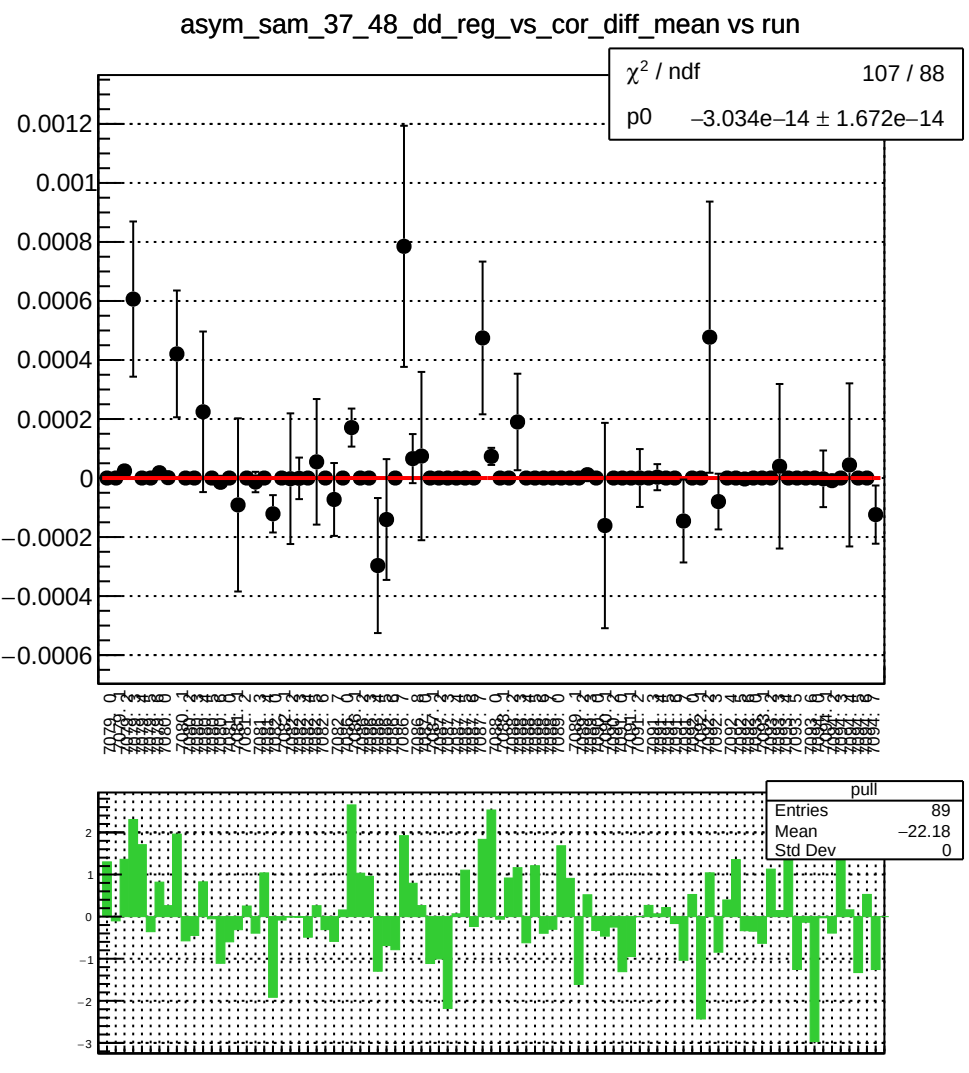

pull1D
Entries 89
Mean −0.006592
Std Dev 0.9291
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

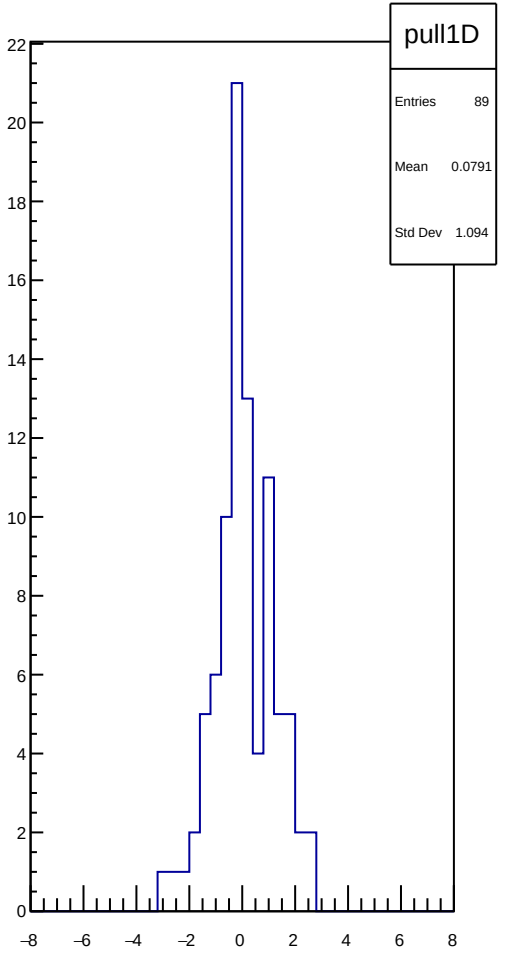

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5203 / 88
p0 454.5 ± 0.3506
540
520
500
480
460
440
420
400
380

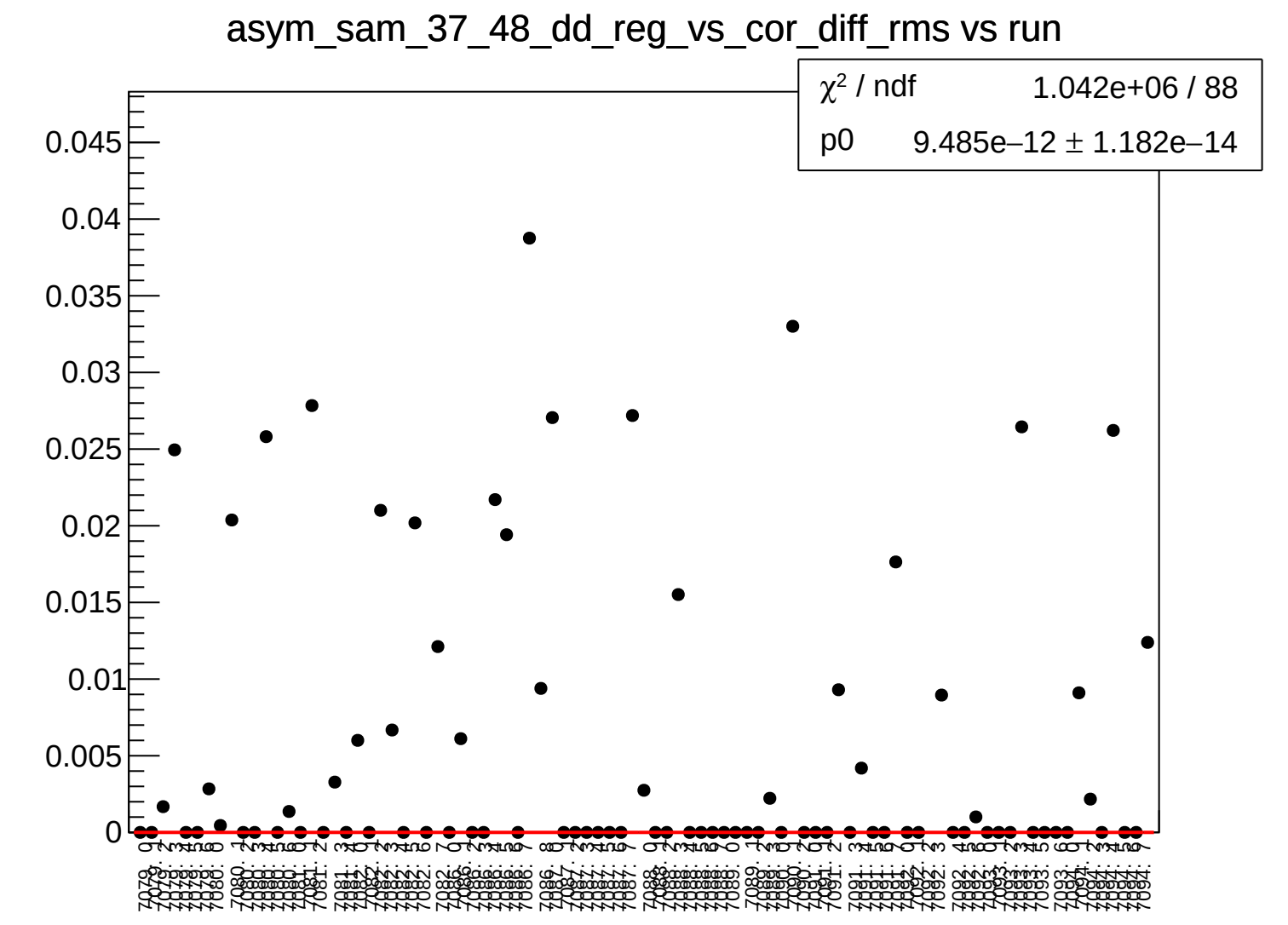

asym_sam_37_48_dd_mean vs run
χ² / ndf 79.58 / 88
p0 216.9 ± 483.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −374.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

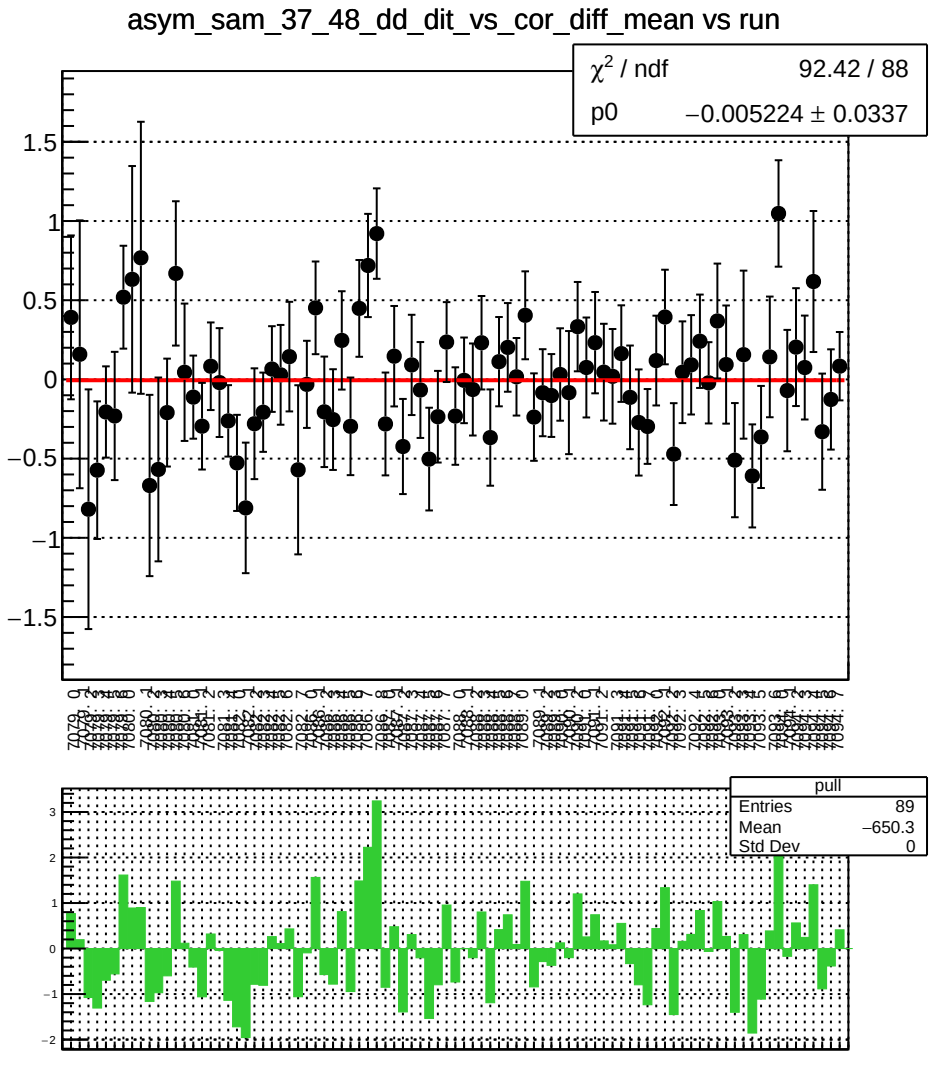

pull1D
Entries 89
Mean 0.004917
Std Dev 0.9456
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

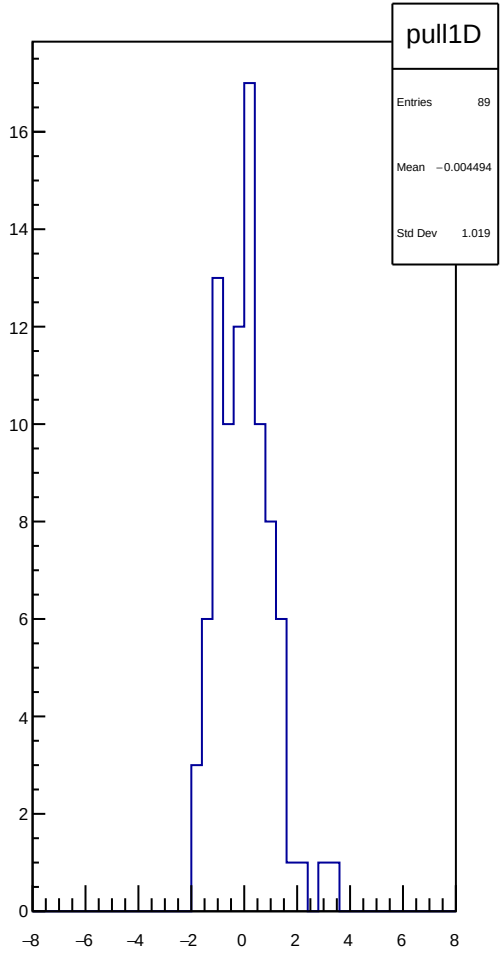

asym_sam_37_48_dd_rms vs run
χ² / ndf 6251 / 88
p0 443.5 ± 0.3421
540
520
500
480
460
440
420
400
380

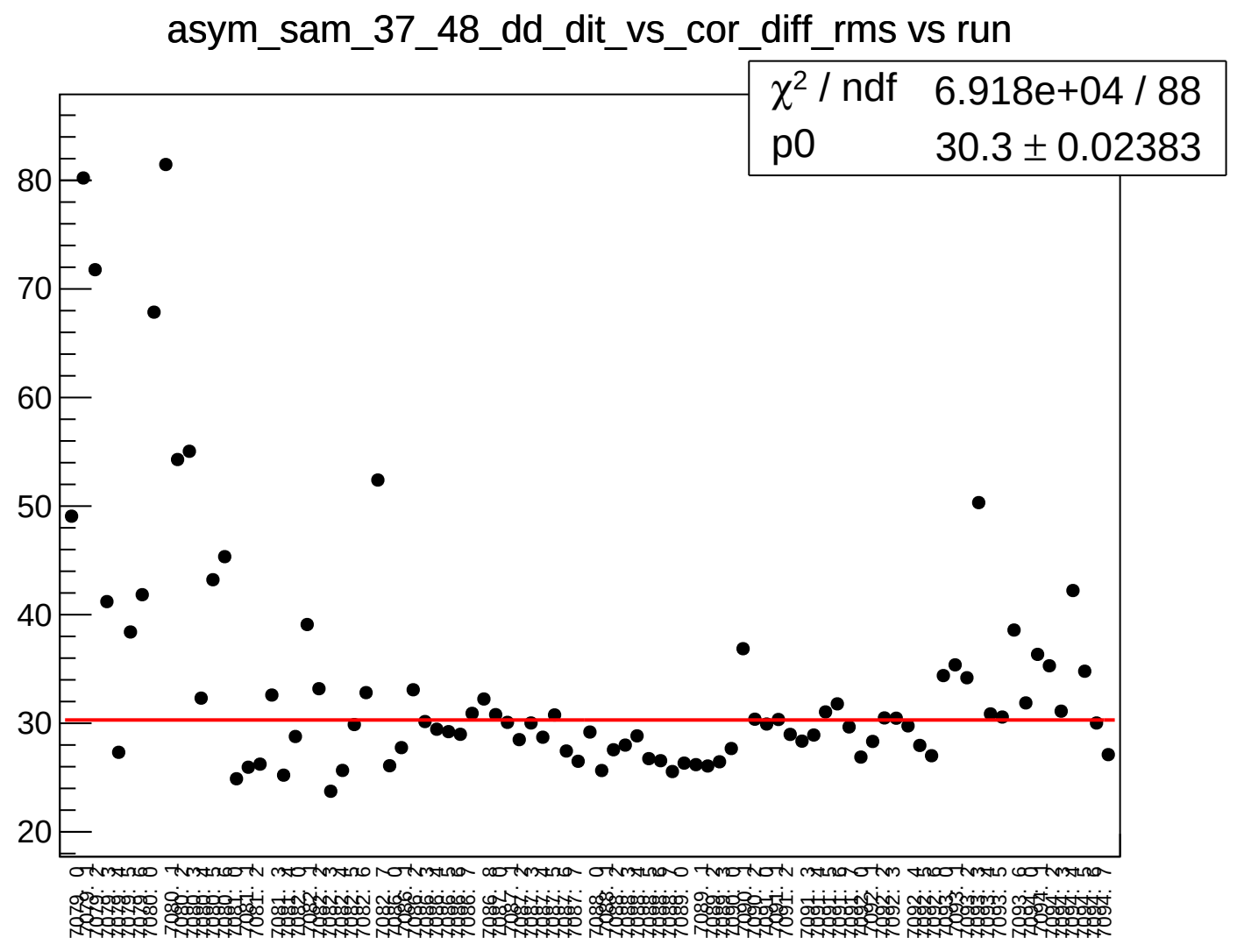

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107 / 88
p0 −3.034e−14 ± 1.672e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 89
Mean −22.18
Std Dev 0
2
1
0
−1
−2
−3

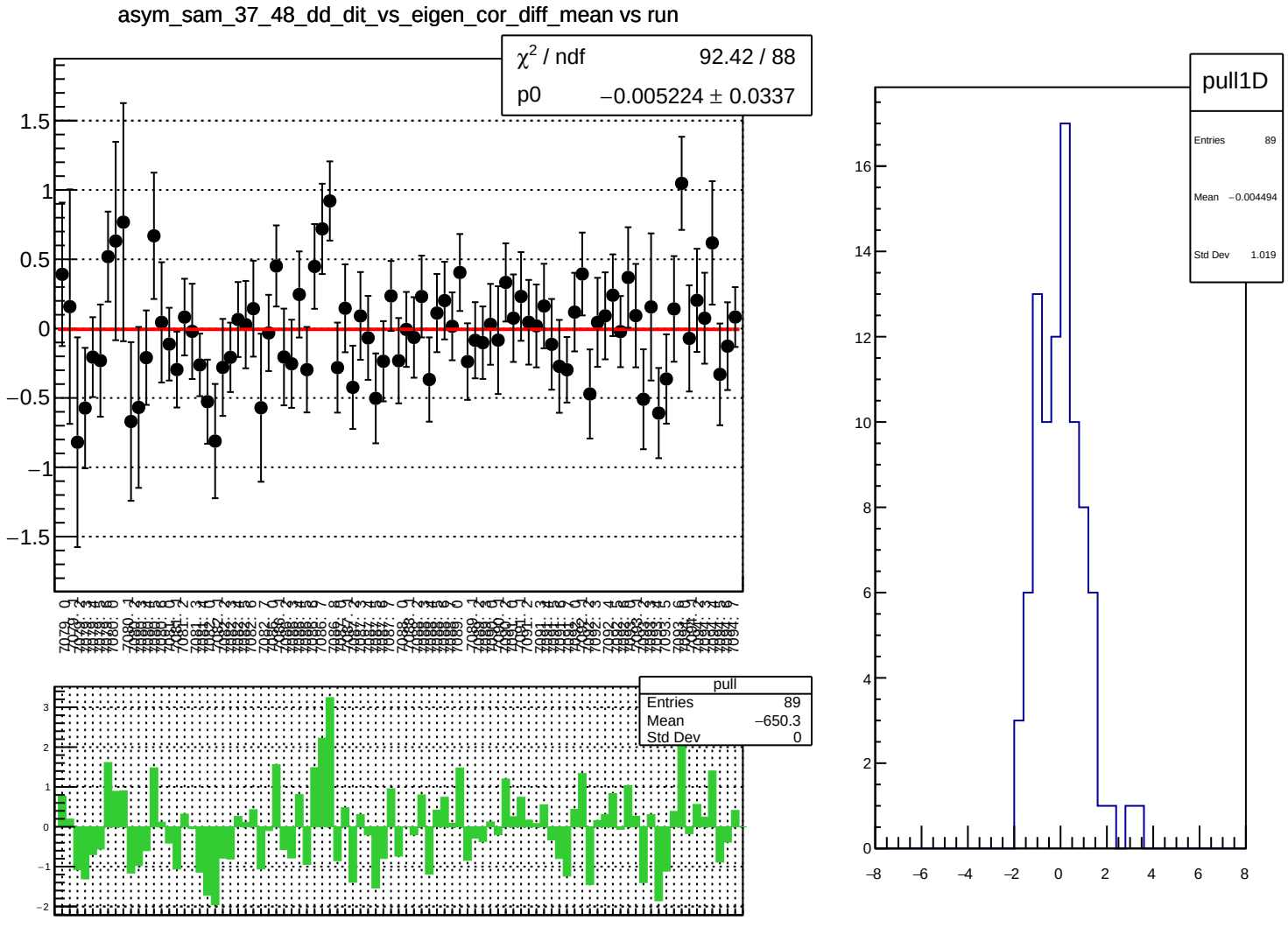

pull1D
Entries 89
Mean 0.0791
Std Dev 1.094
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

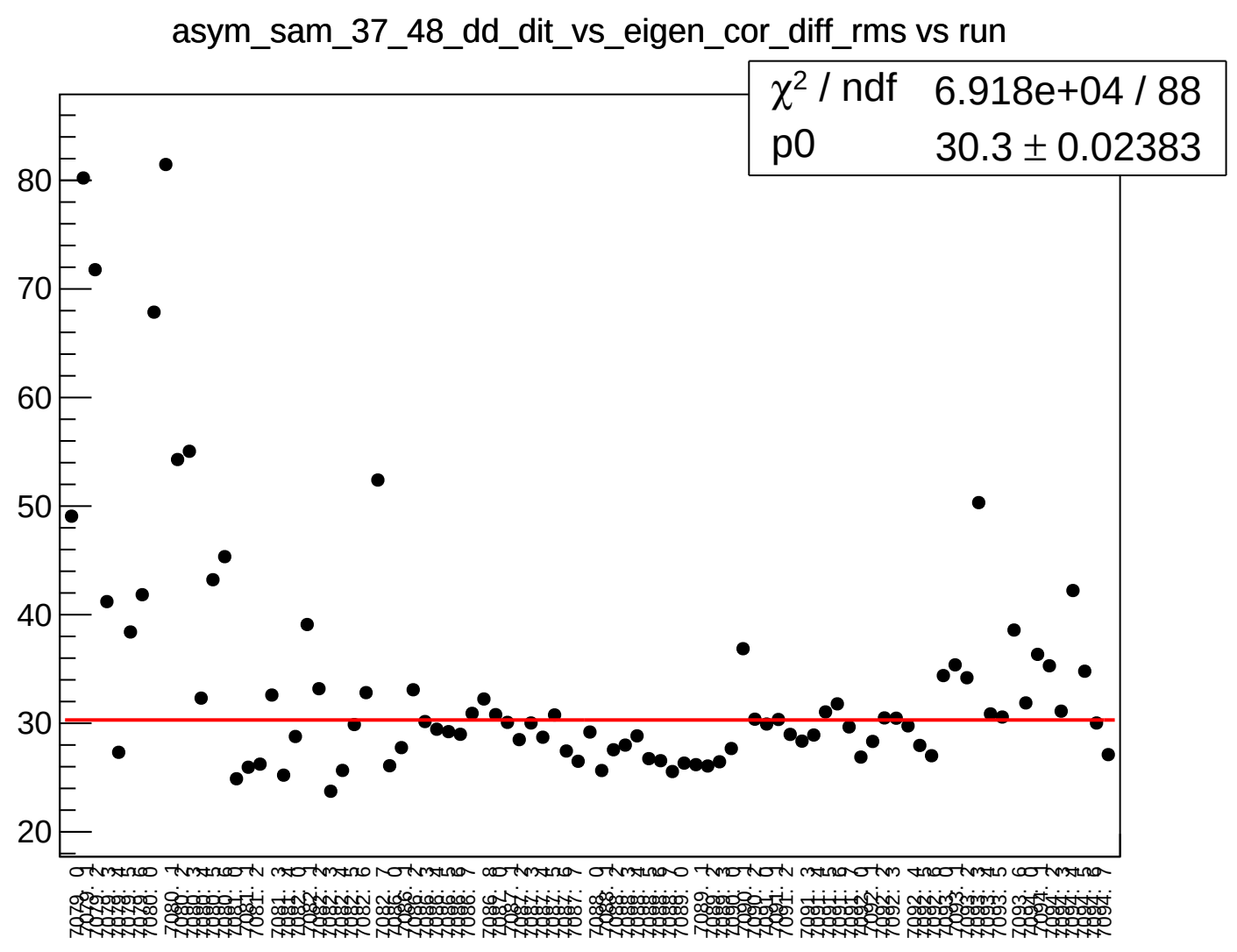

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.042e+06 / 88
p0 9.485e−12 ± 1.182e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

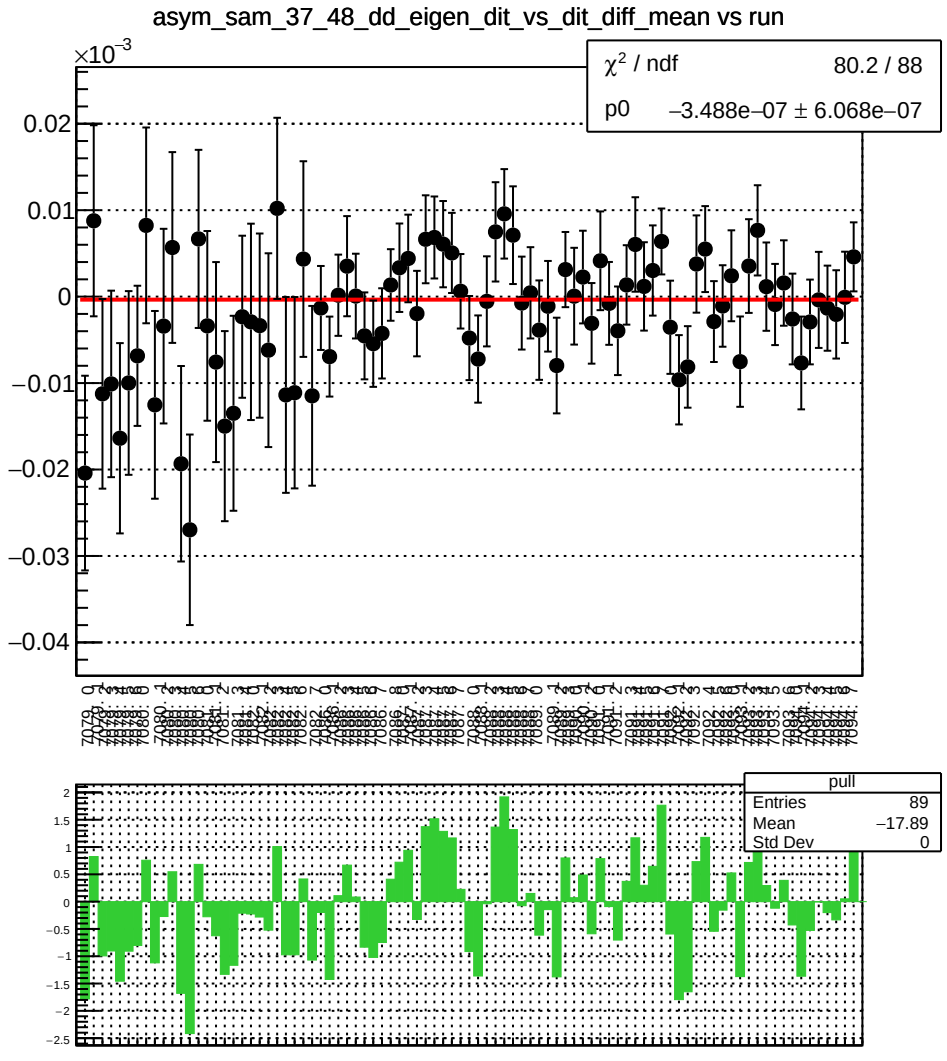

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.42 / 88
p0 −0.005224 ± 0.0337
pull
Entries 89
Mean −650.3
Std Dev 0

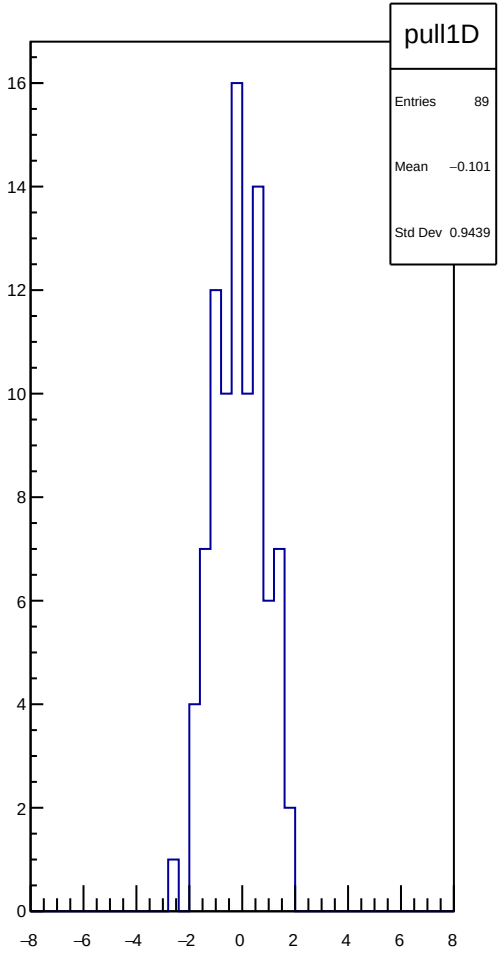

pull1D
Entries 89
Mean −0.004494
Std Dev 1.019

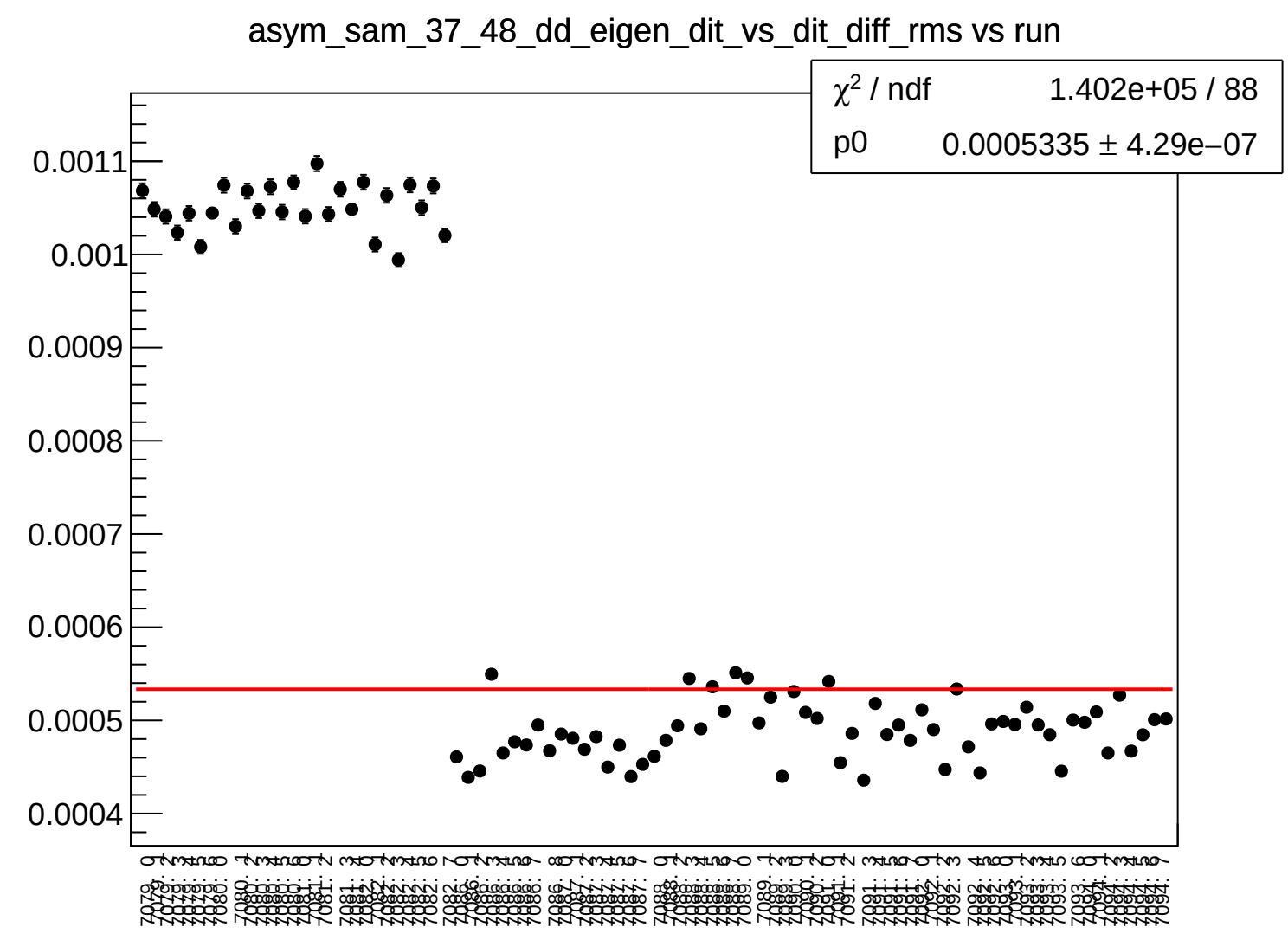

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.918e+04 / 88
p0 30.3 ± 0.02383
80
70
60
50
40
30
20

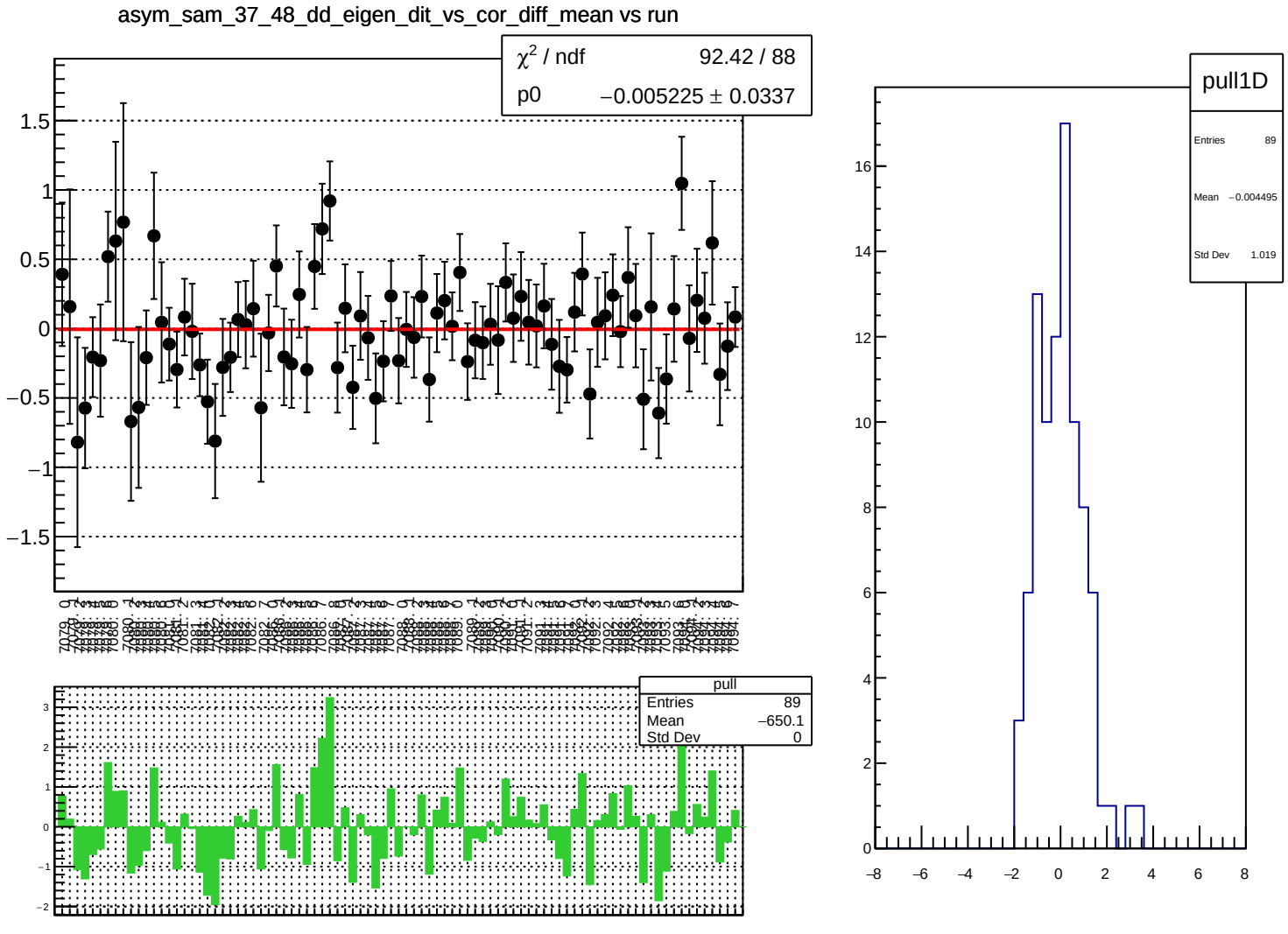

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.42 / 88
p0 −0.005224 ± 0.0337
pull
Entries 89
Mean −650.3
Std Dev 0
pull1D
Entries 89
Mean −0.004494
Std Dev 1.019

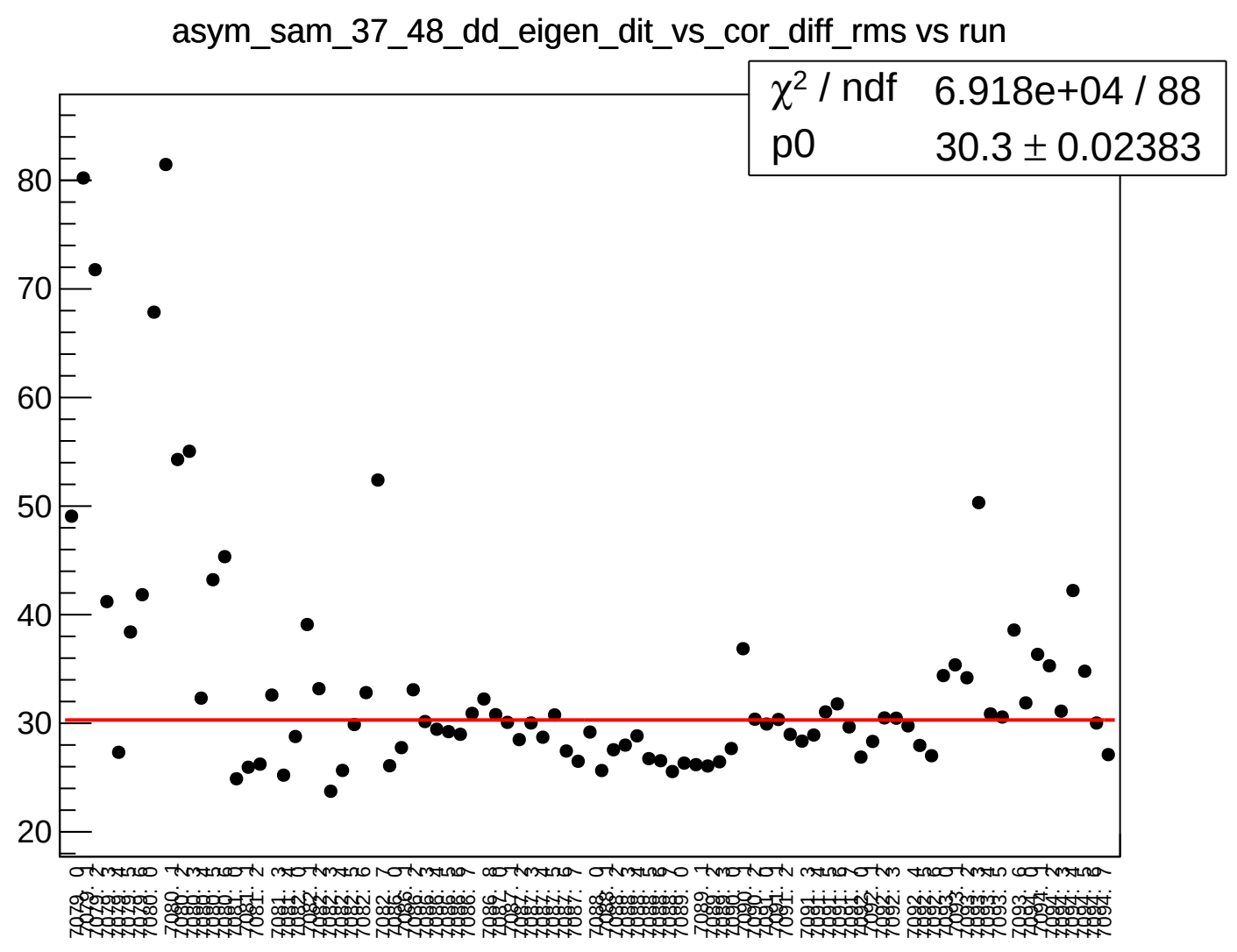

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.918e+04 / 88
p0 30.3 ± 0.02383
80
70
60
50
40
30
20

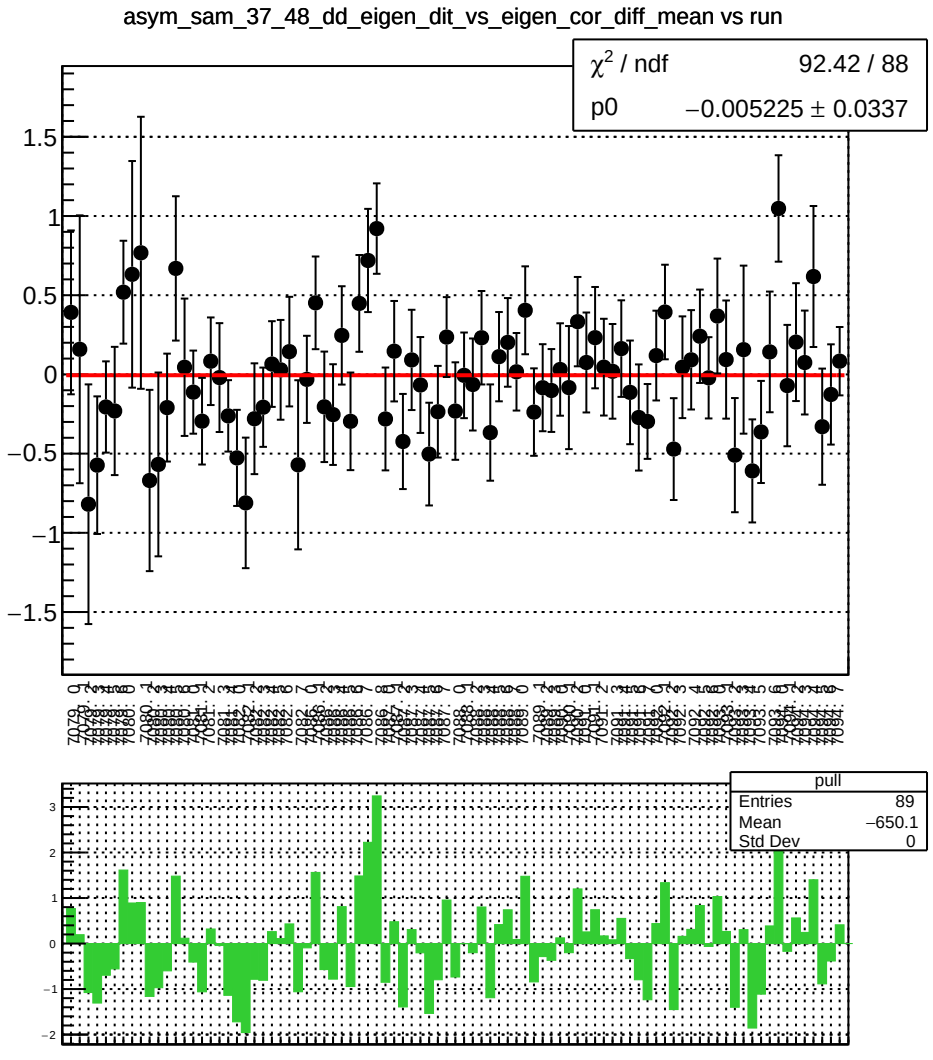

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 80.2 / 88
p0 −3.488e−07 ± 6.068e−07
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean −17.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

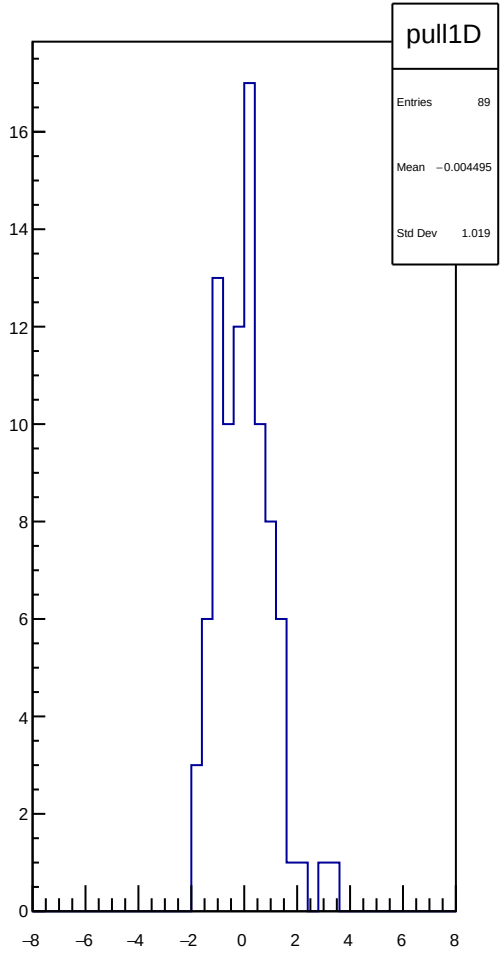

pull1D
Entries 89
Mean −0.101
Std Dev 0.9439
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

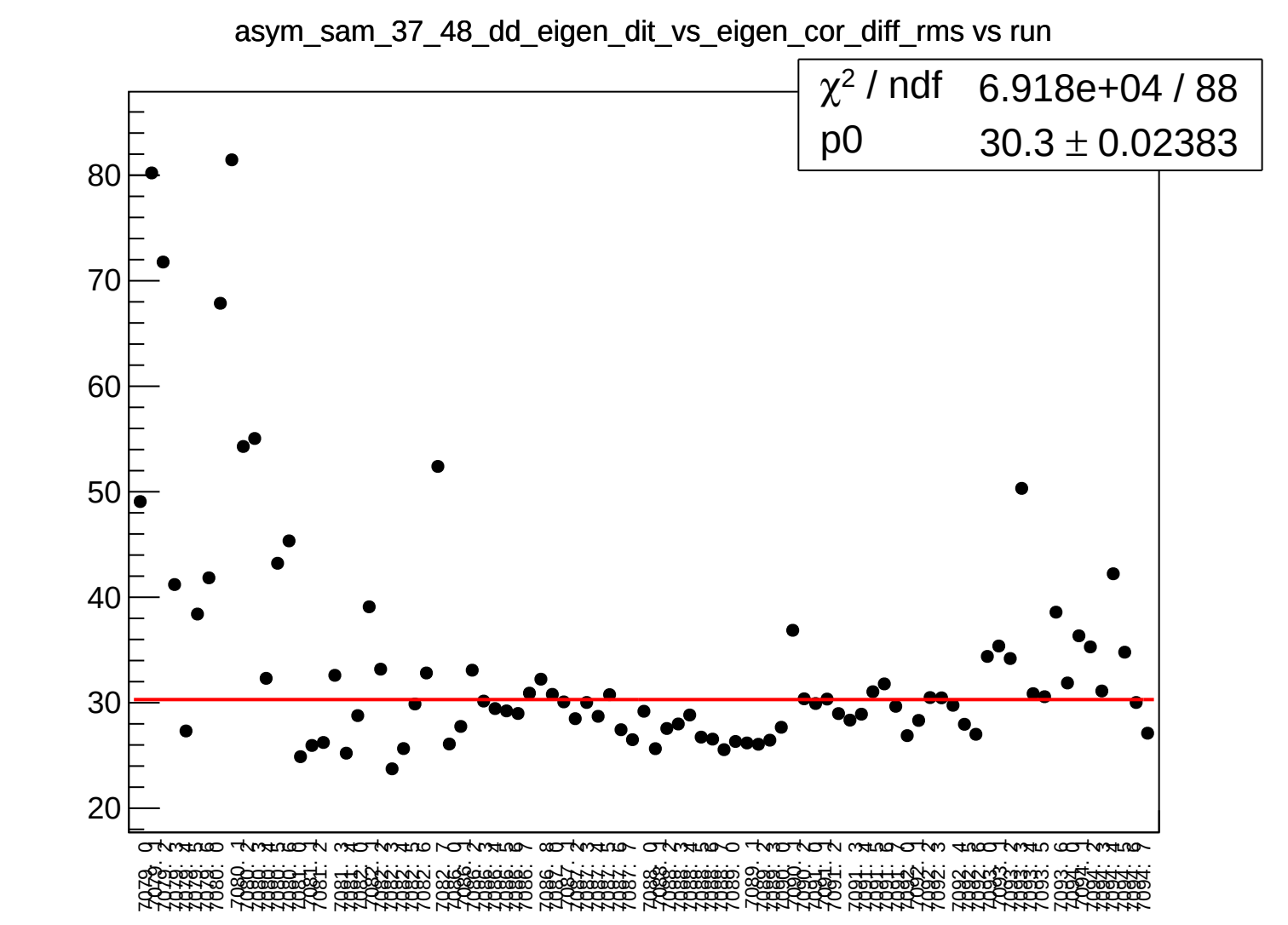

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.402e+05 / 88
p0 0.0005335 ± 4.29e−07
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

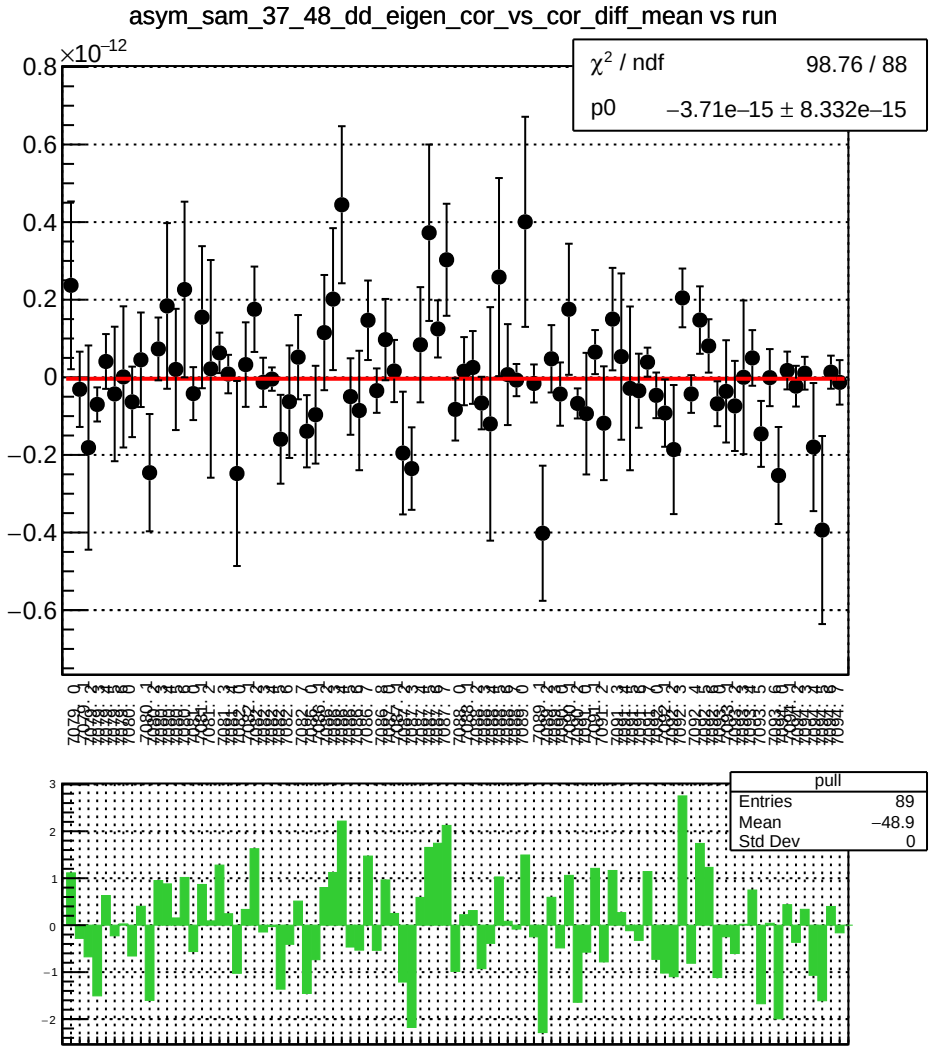

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.42 / 88
p0 −0.005225 ± 0.0337
pull
Entries 89
Mean −650.1
Std Dev 0
pull1D
Entries 89
Mean −0.004495
Std Dev 1.019

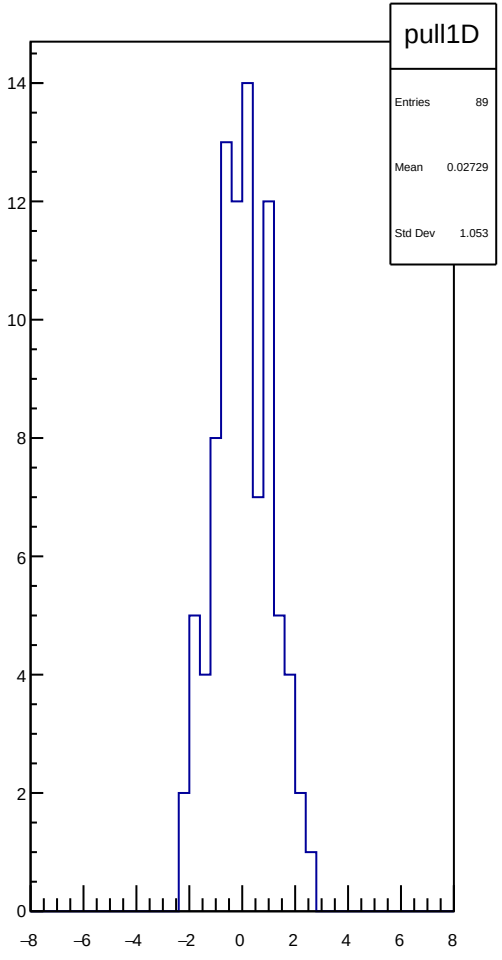

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.918e+04 / 88
p0 30.3 ± 0.02383
80
70
60
50
40
30
20

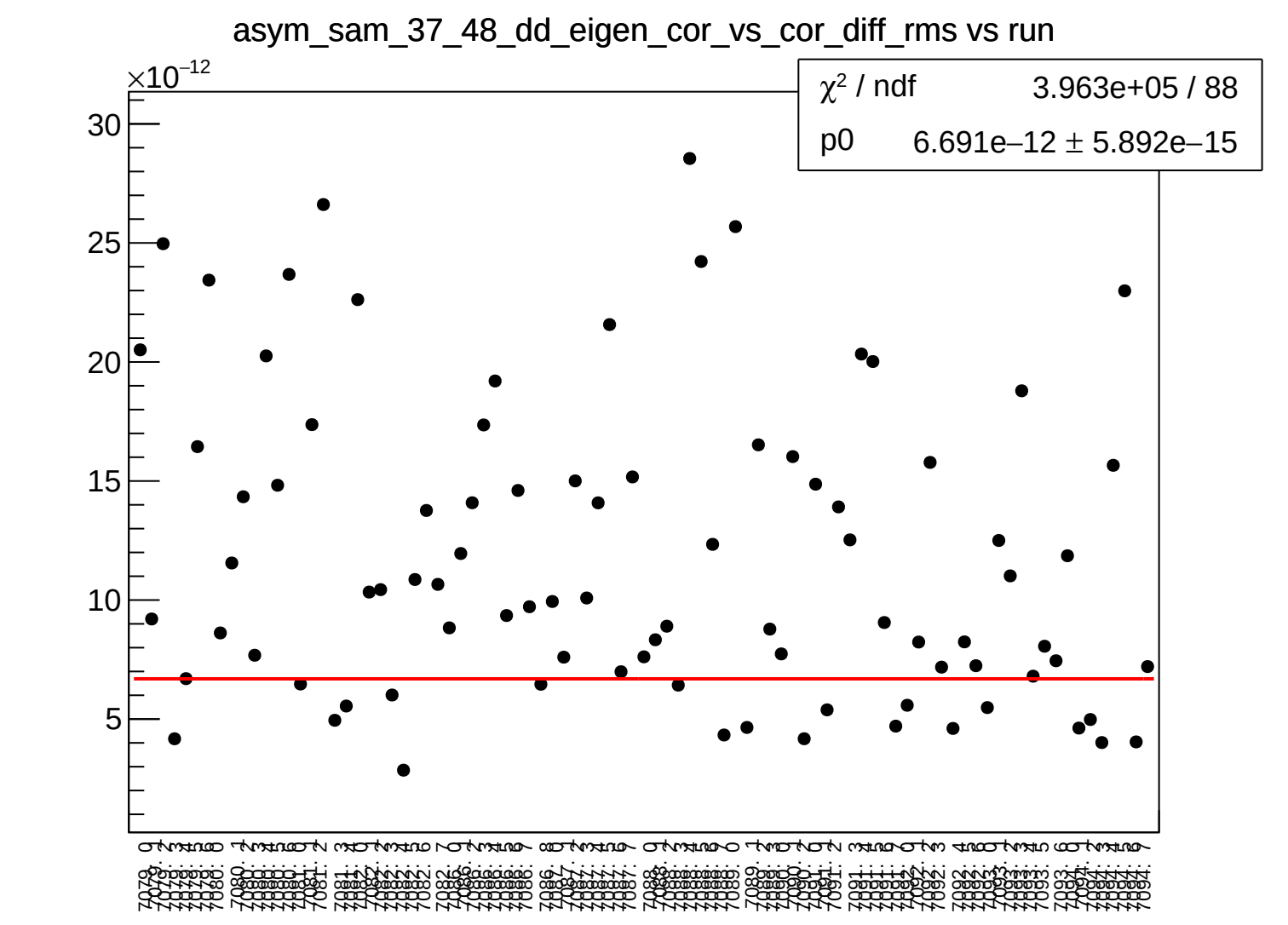

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.42 / 88
p0 −0.005225 ± 0.0337
pull
Entries 89
Mean −650.1
Std Dev 0

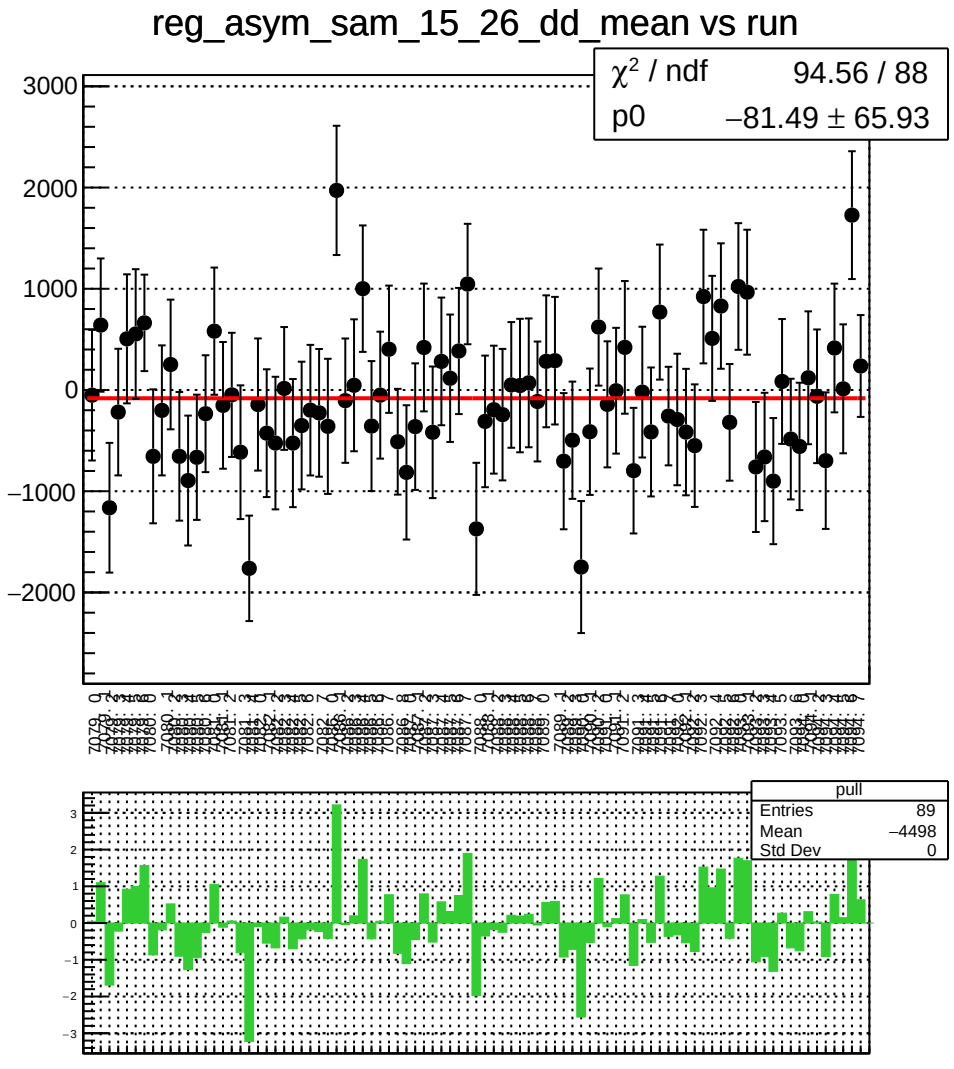

pull1D
Entries 89
Mean −0.004495
Std Dev 1.019

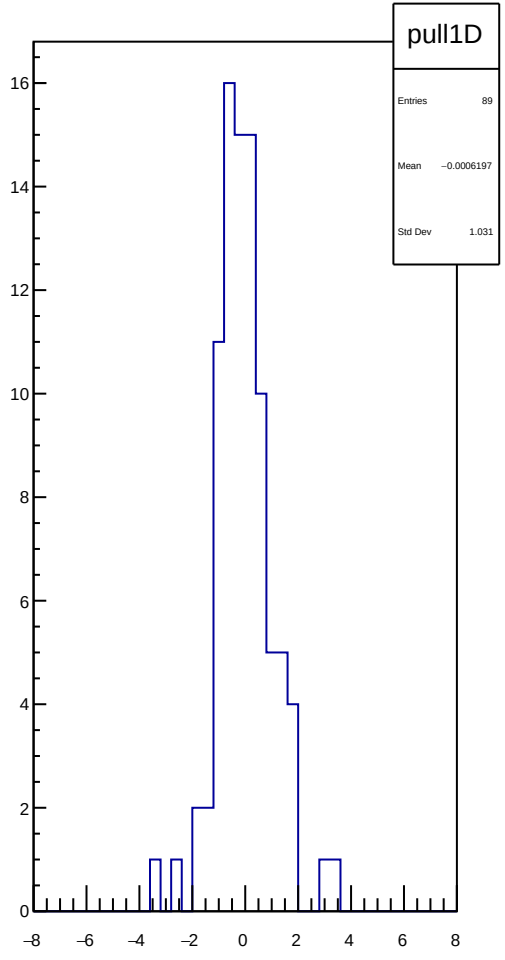

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.918e+04 / 88
p0 30.3 ± 0.02383
80
70
60
50
40
30
20

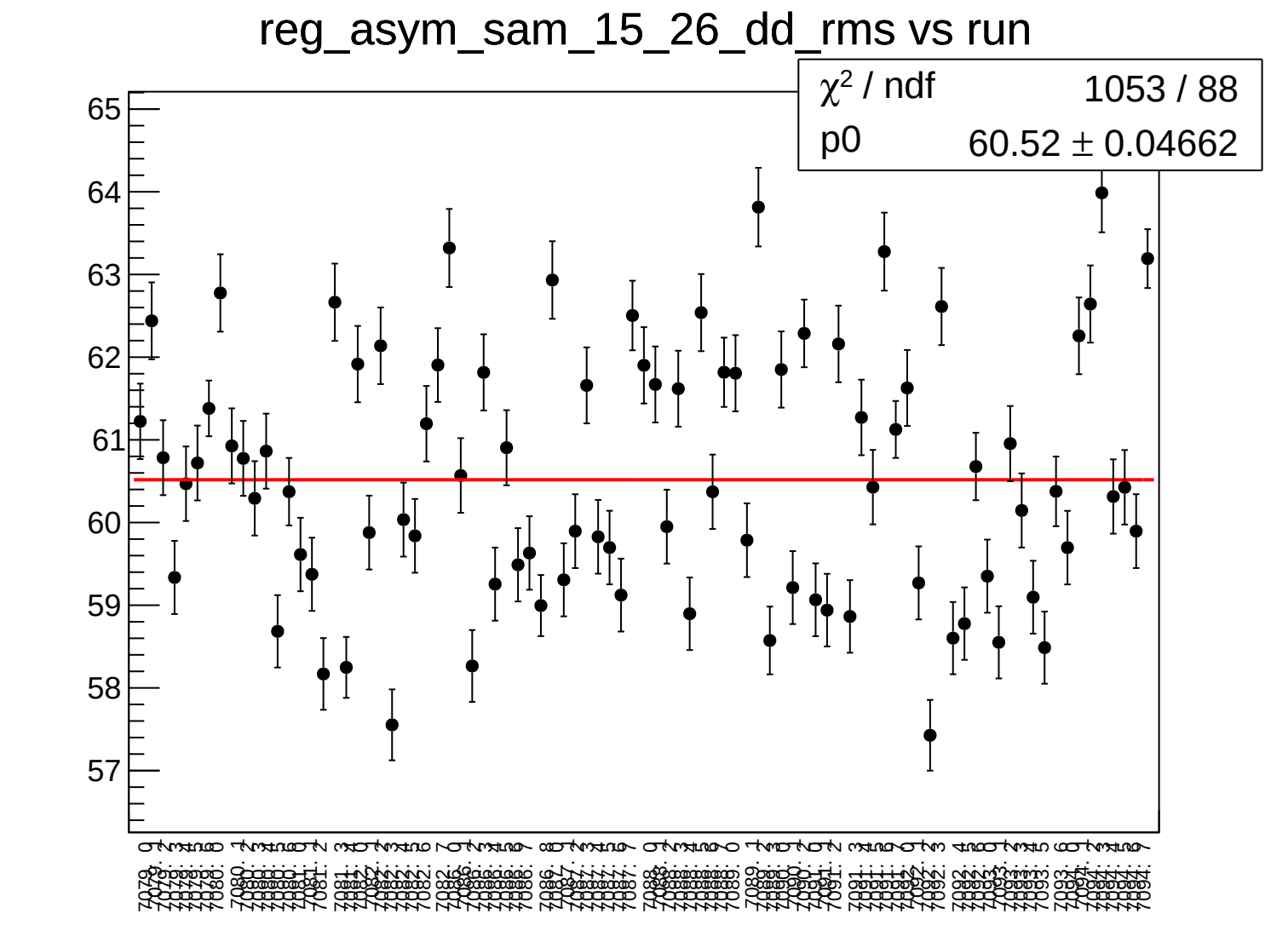

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.76 / 88
p0 −3.71e−15 ± 8.332e−15
pull
Entries 89
Mean −48.9
Std Dev 0

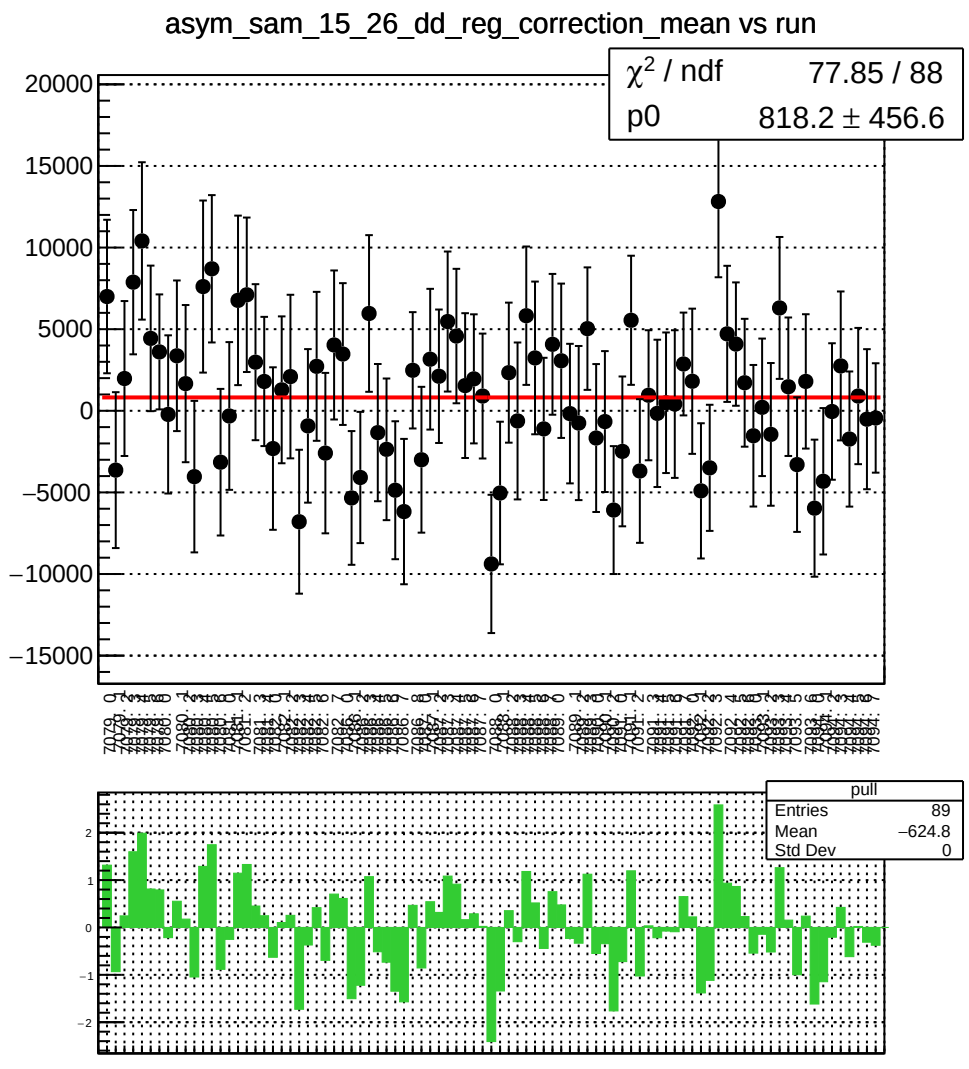

pull1D
Entries 89
Mean 0.02729
Std Dev 1.053

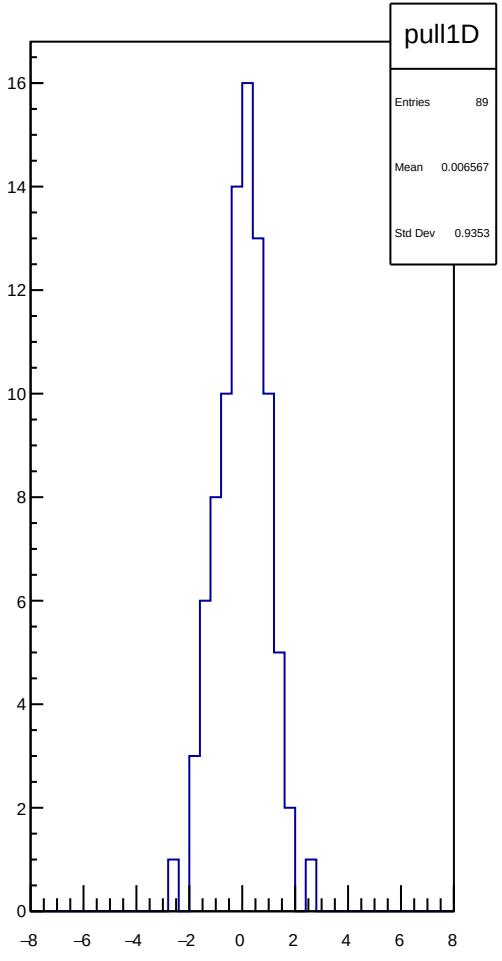

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.963e+05 / 88
p0 6.691e−12 ± 5.892e−15
30
25
20
15
10
5

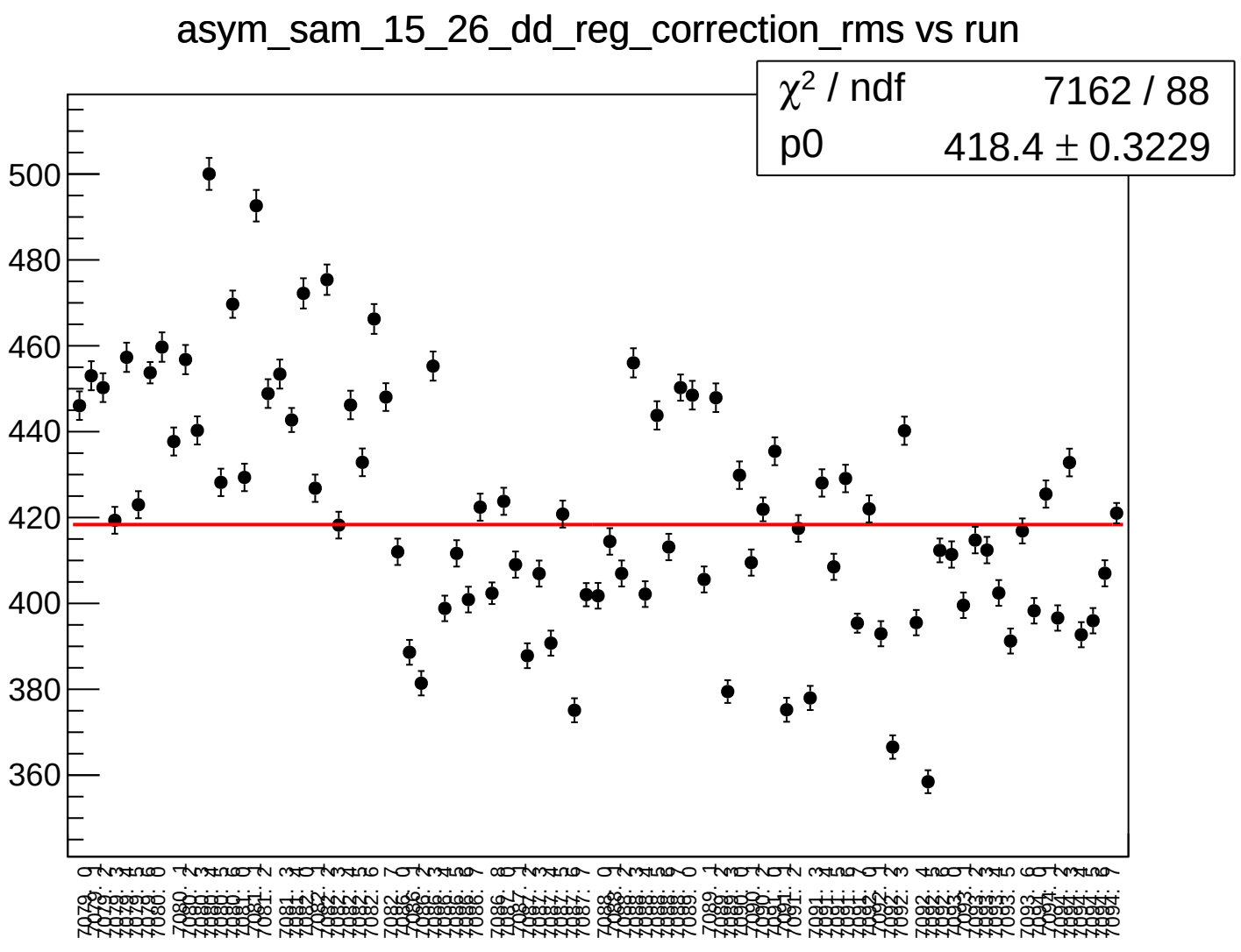

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 94.56 / 88
p0 −81.49 ± 65.93
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −4498
Std Dev 0
3
2
1
0
−1
−2
−3

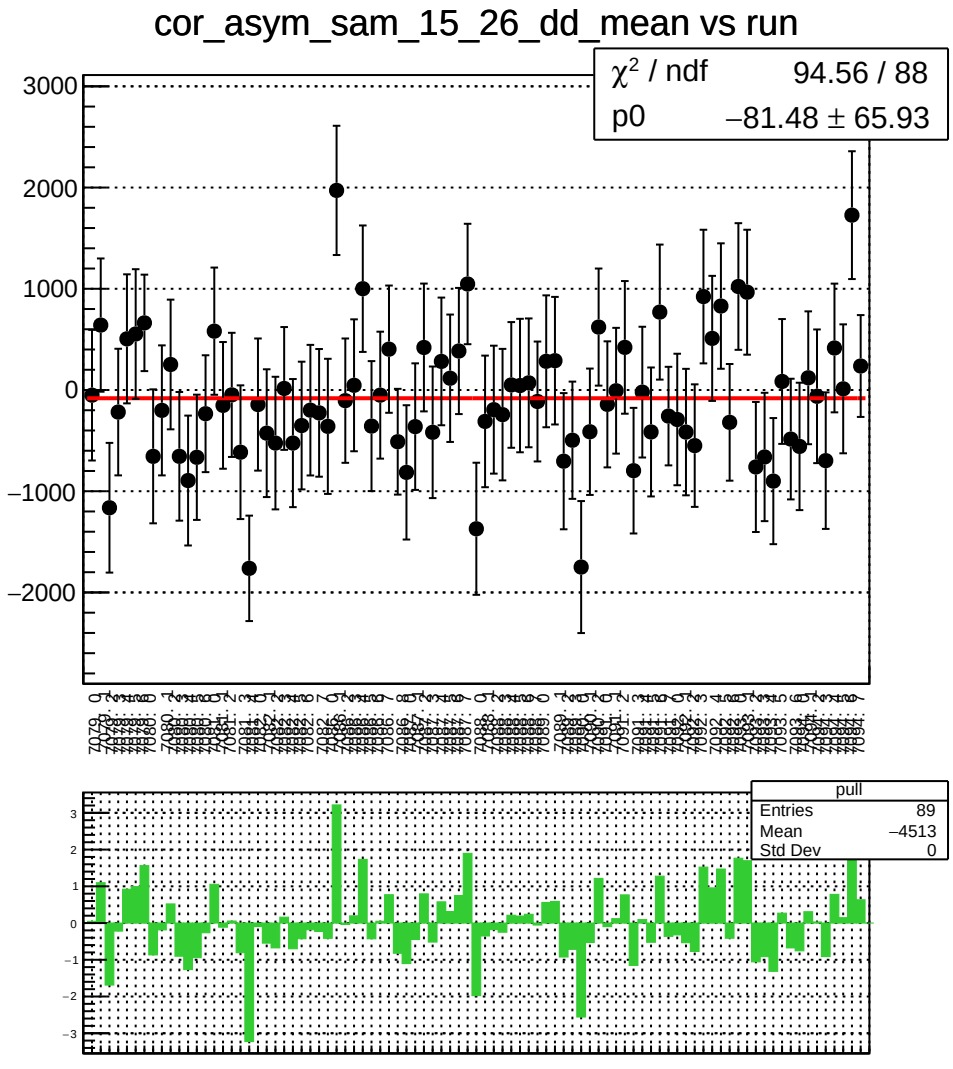

pull1D
Entries 89
Mean −0.0006197
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

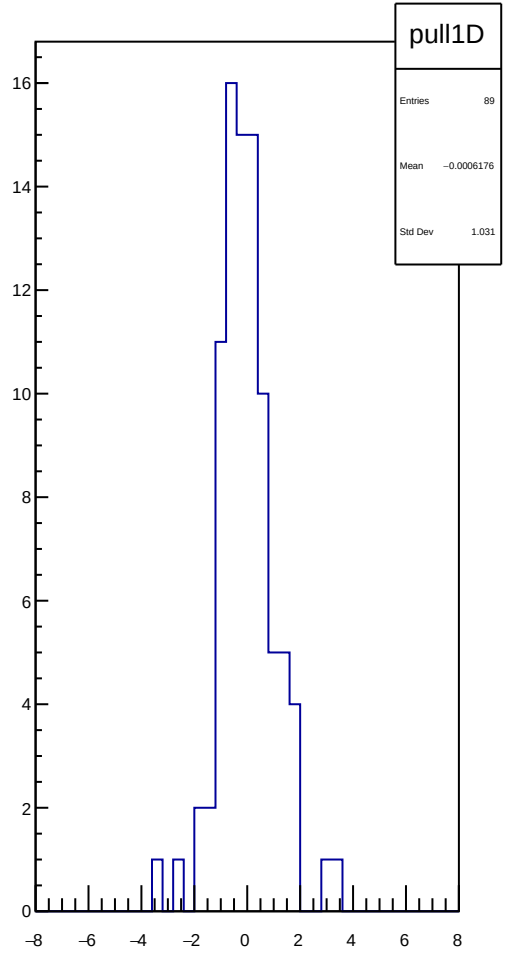

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1053 / 88
p0 60.52 ± 0.04662
65
64
63
62
61
60
59
58
57

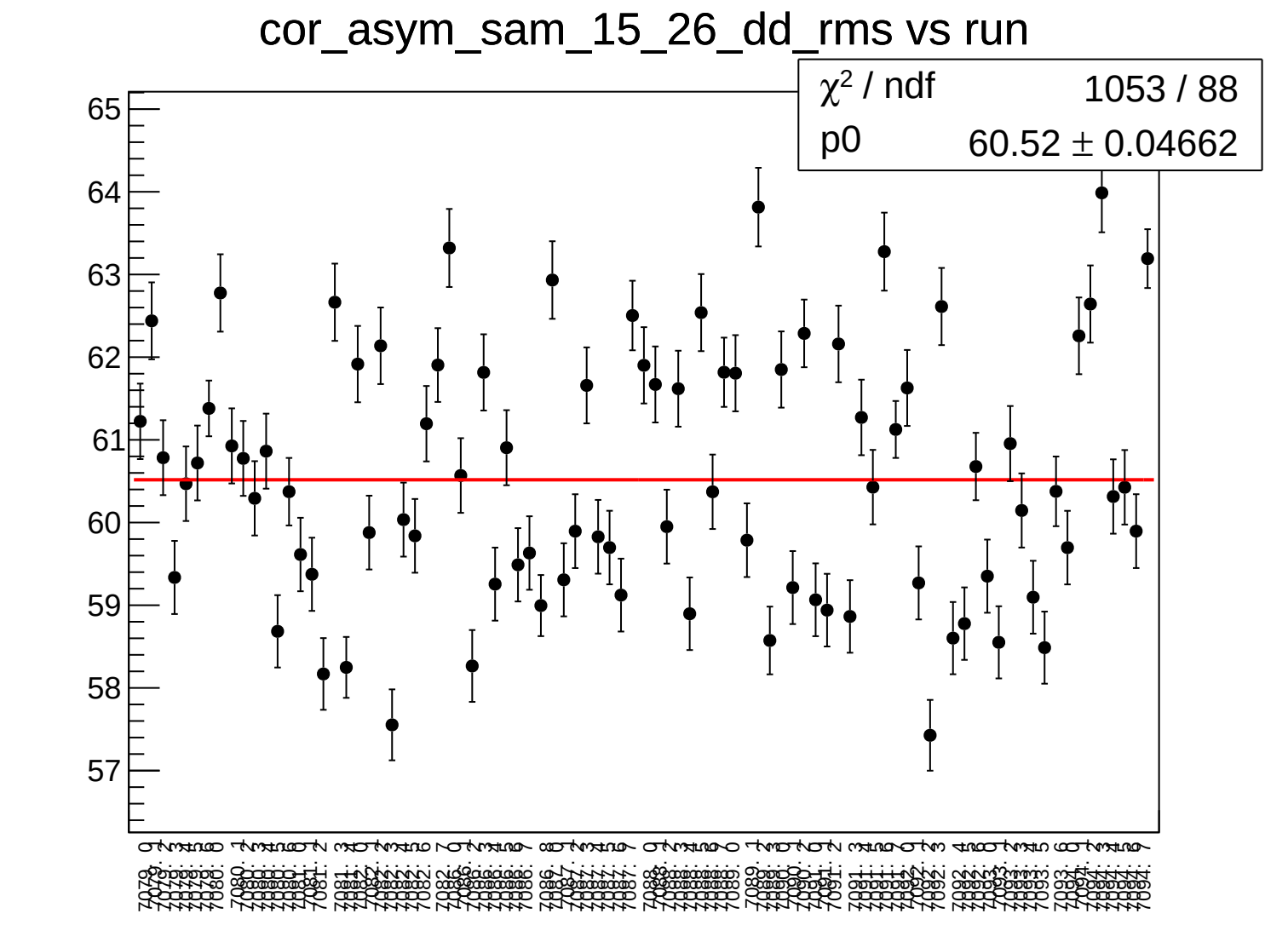

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 77.85 / 88
p0 818.2 ± 456.6
pull
Entries 89
Mean −624.8
Std Dev 0

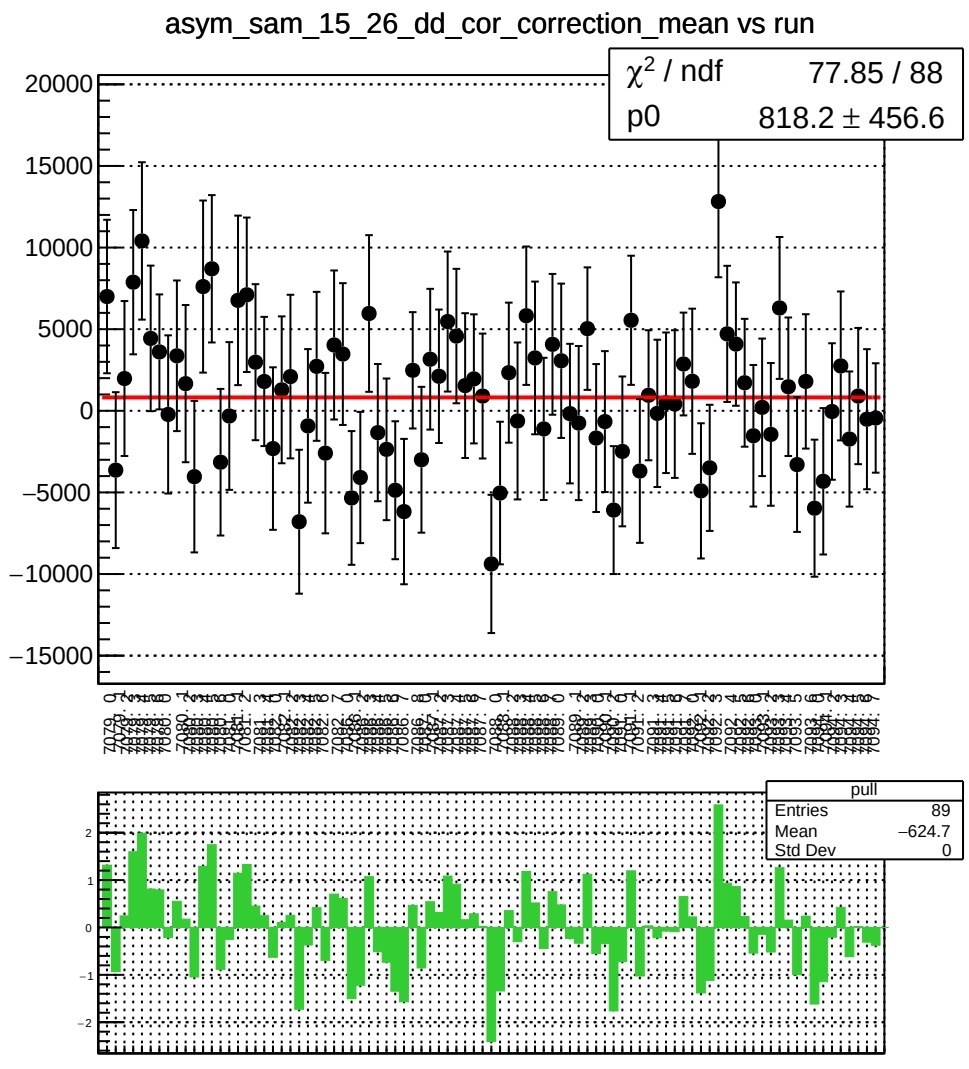

pull1D
Entries 89
Mean 0.006567
Std Dev 0.9353

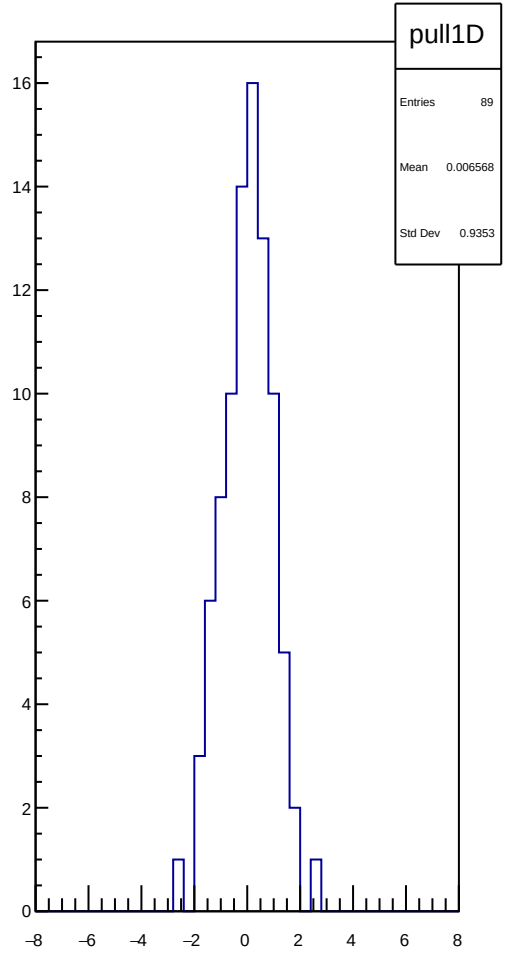

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 7162 / 88
p0 418.4 ± 0.3229
500
480
460
440
420
400
380
360

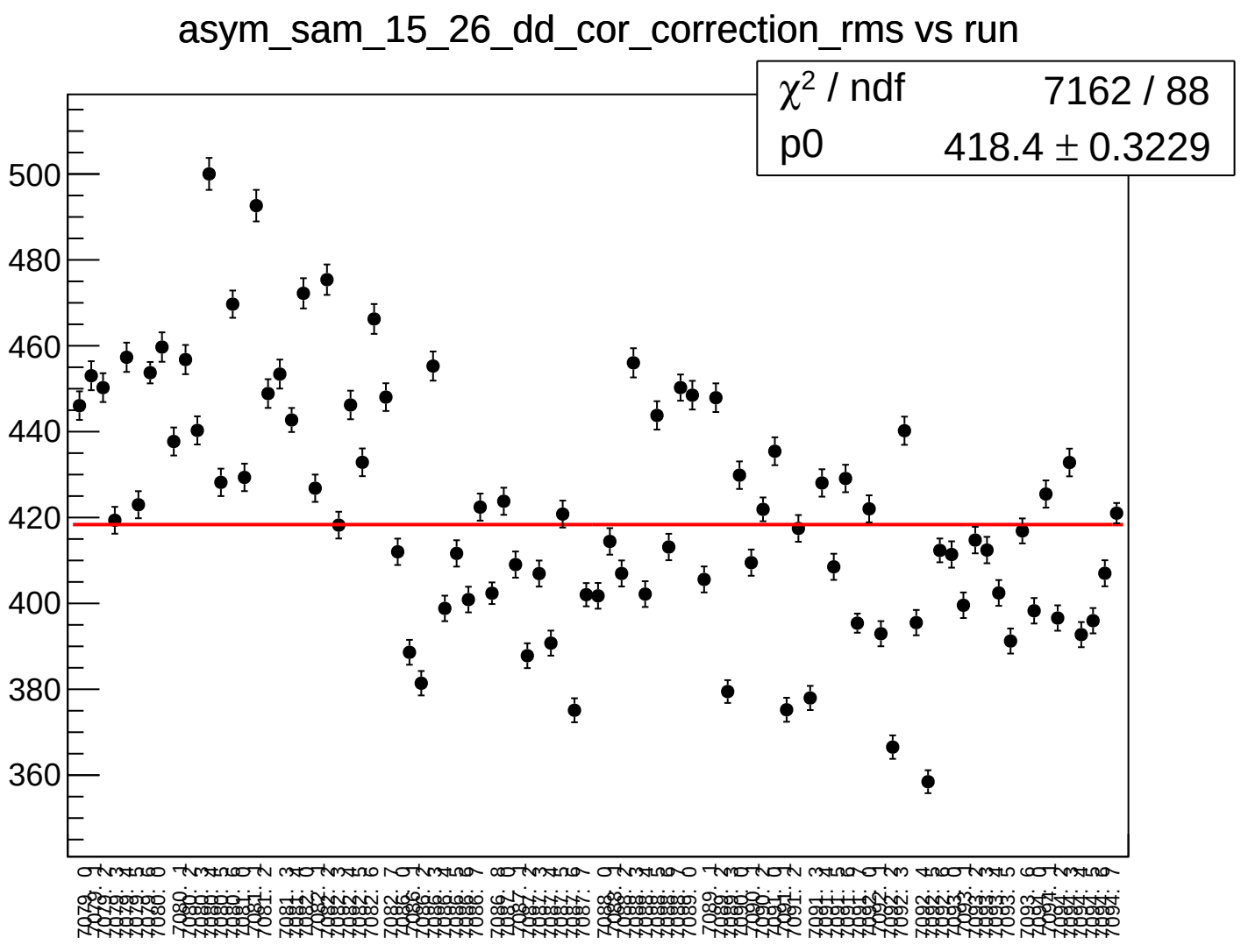

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 94.56 / 88
p0 −81.48 ± 65.93
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −4513
Std Dev 0
3
2
1
0
−1
−2
−3

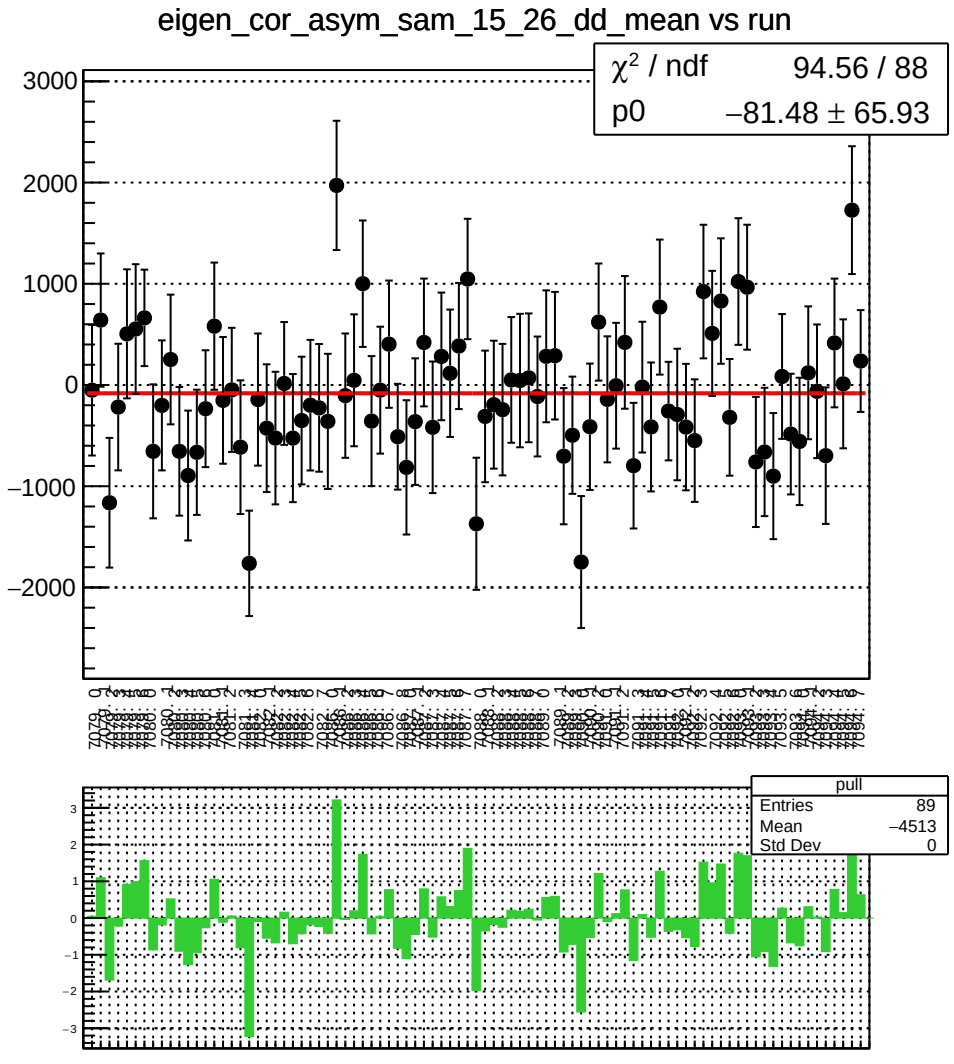

pull1D
Entries 89
Mean −0.0006176
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

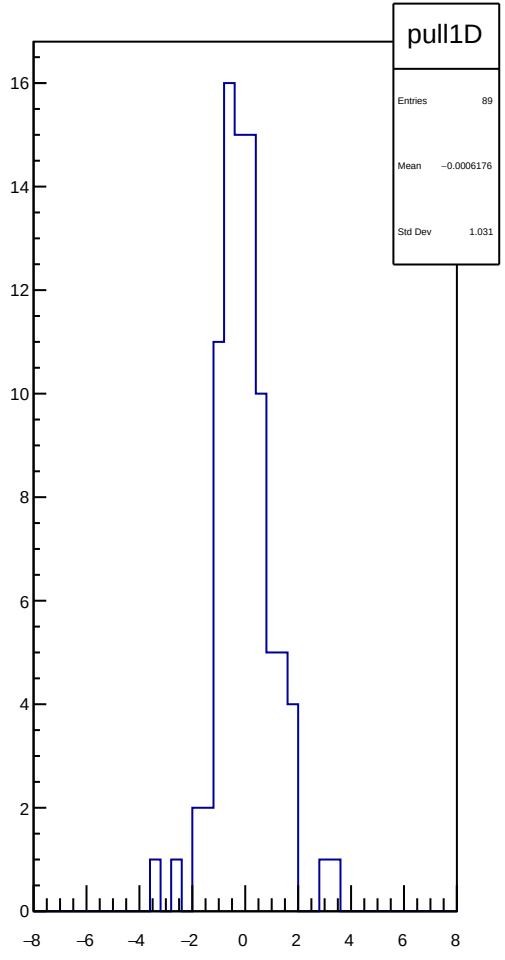

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1053 / 88
p0 60.52 ± 0.04662
65
64
63
62
61
60
59
58
57

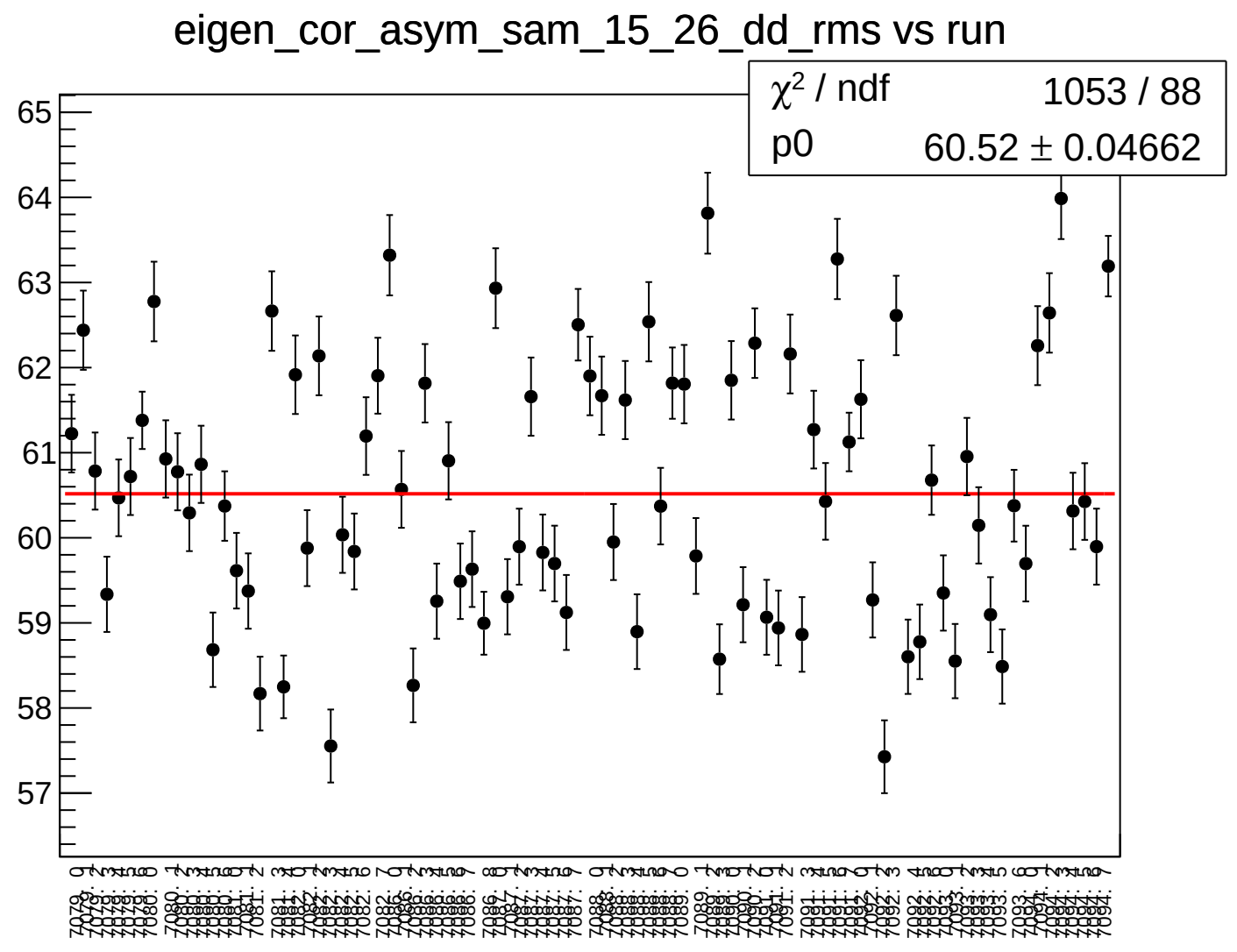

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 77.85 / 88
p0 818.2 ± 456.6
pull
Entries 89
Mean −624.7
Std Dev 0

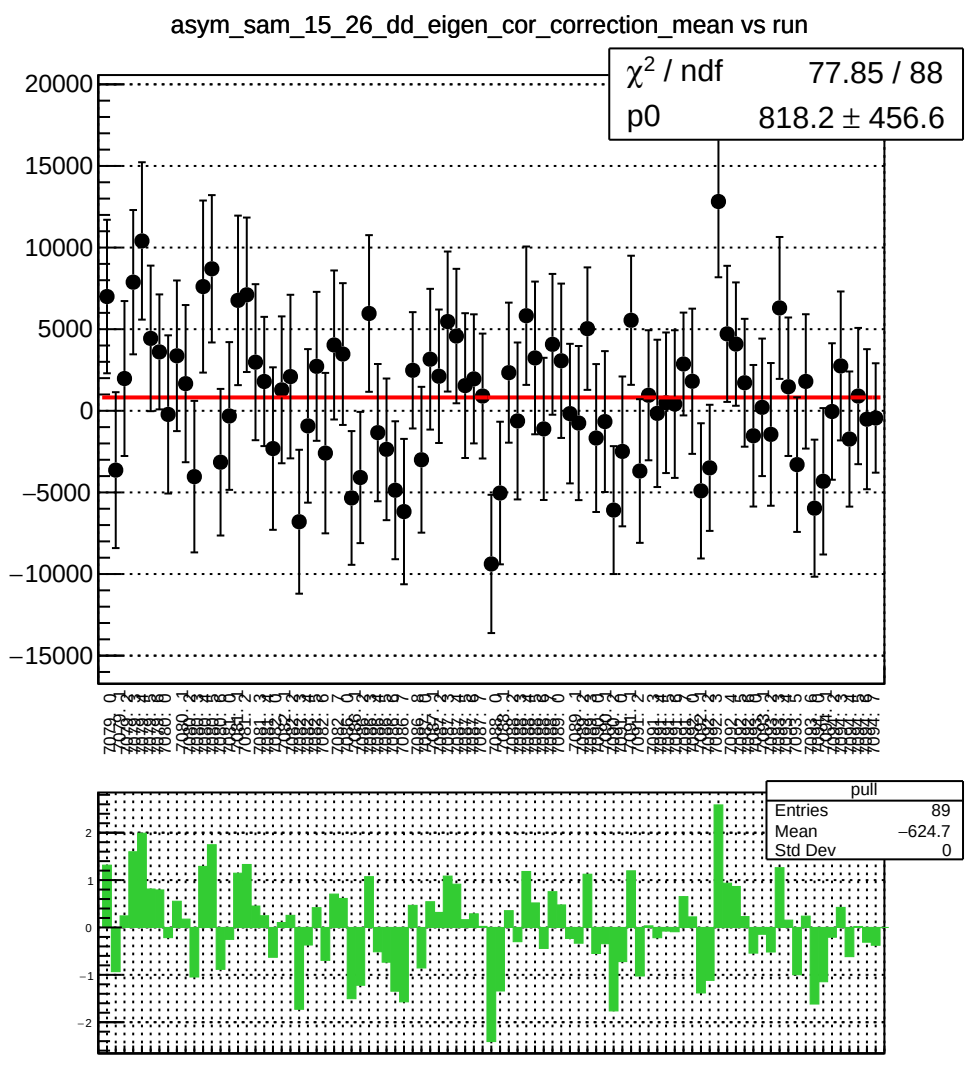

pull1D
Entries 89
Mean 0.006568
Std Dev 0.9353

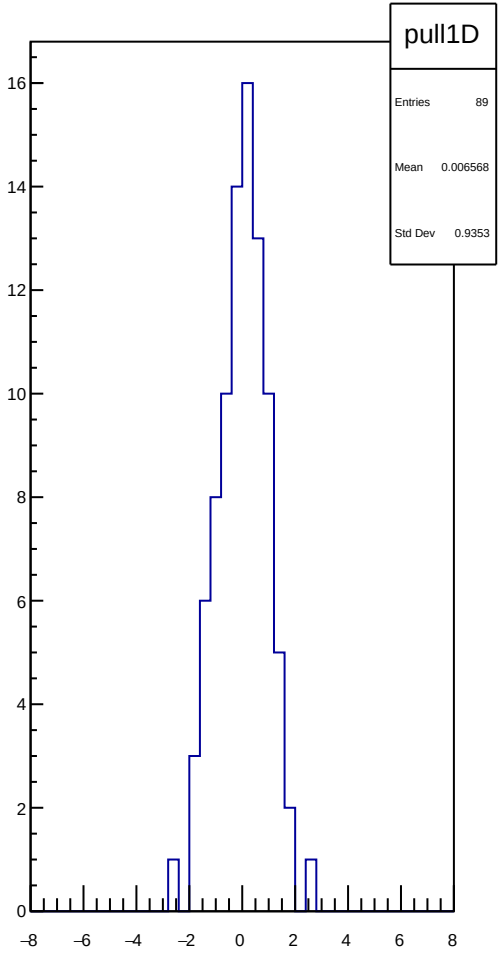

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 7162 / 88
p0 418.4 ± 0.3229
500
480
460
440
420
400
380
360

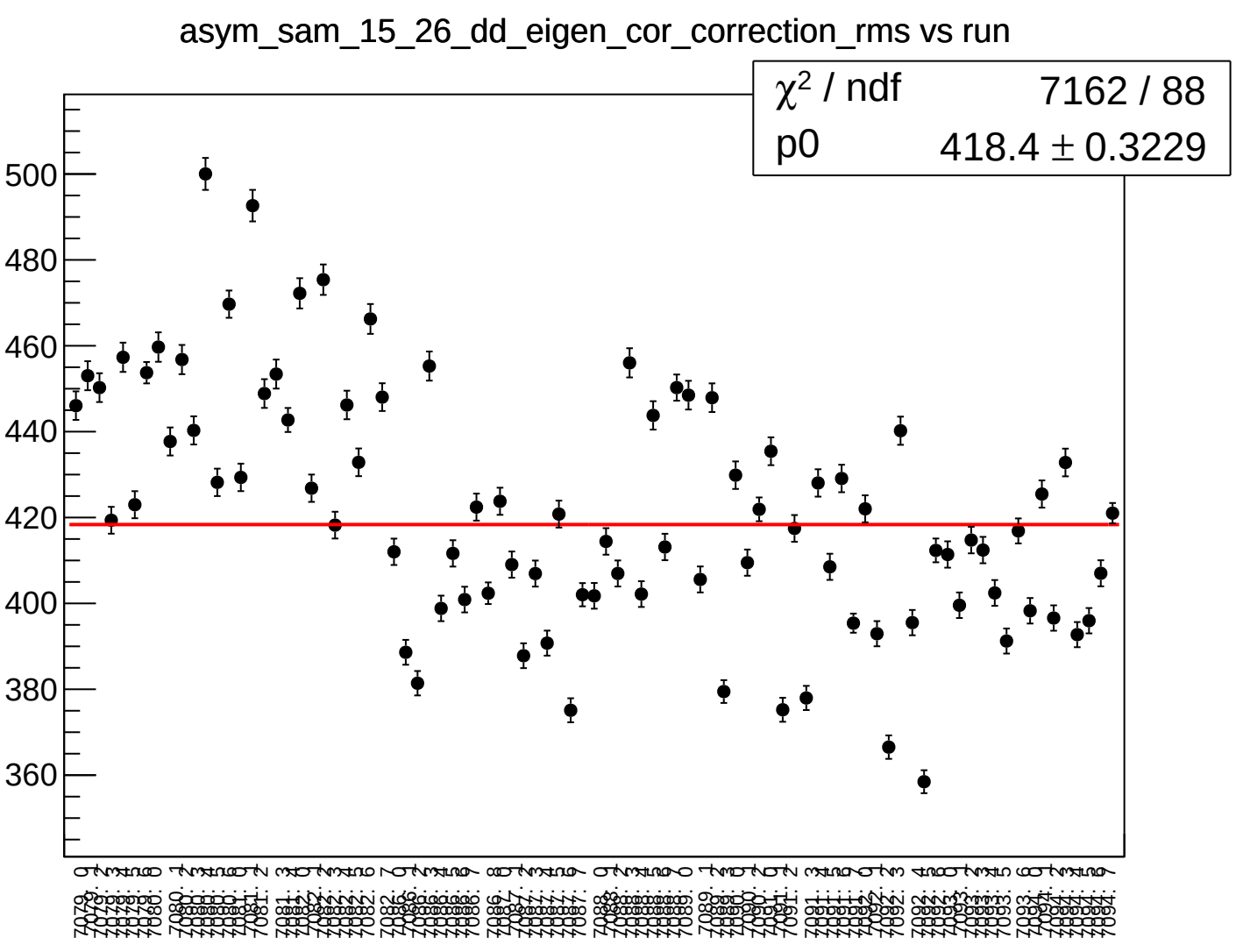

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 94.56 / 88
p0 −81.48 ± 65.93
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −4513
Std Dev 0
3
2
1
0
−1
−2
−3

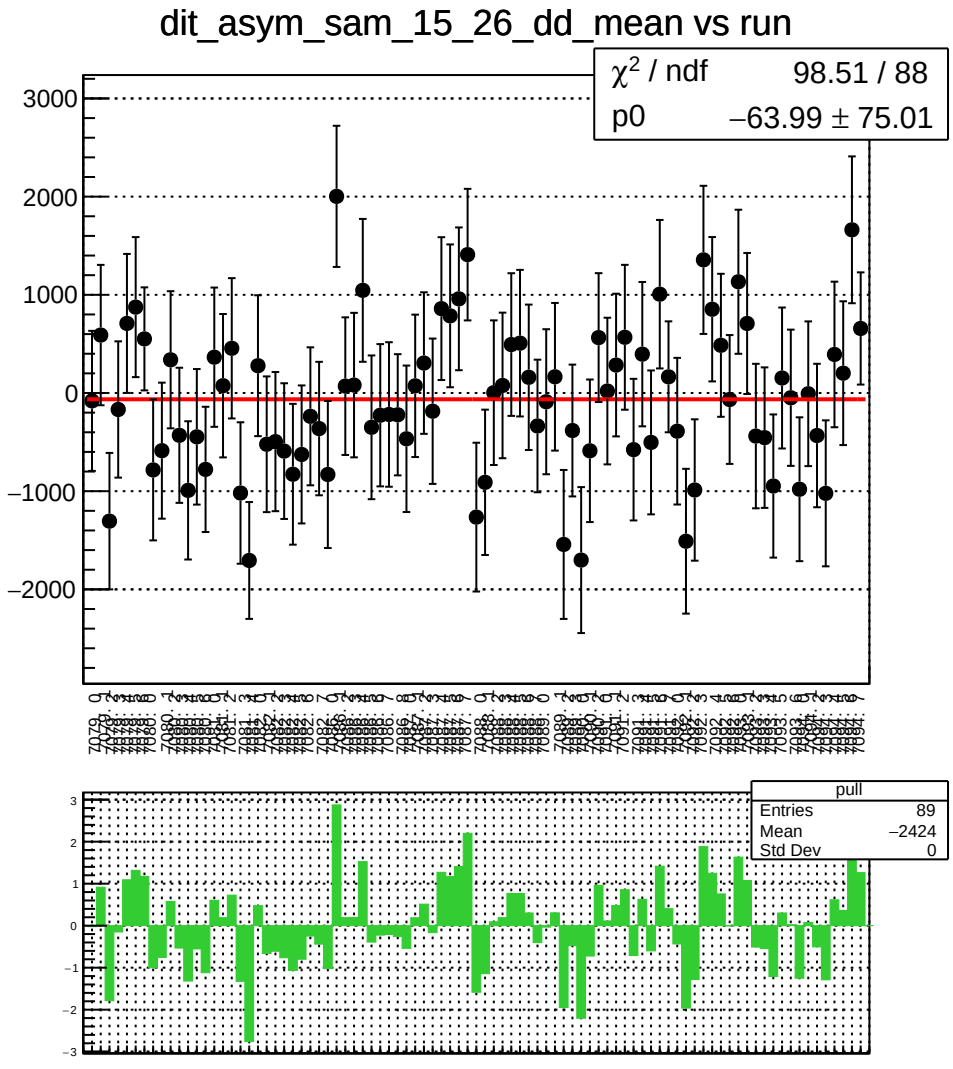

pull1D
Entries 89
Mean −0.0006176
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

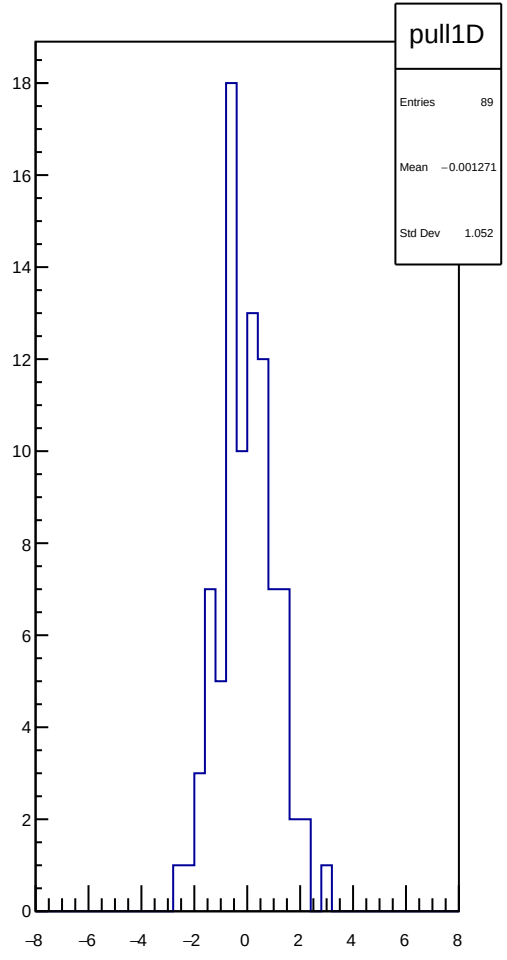

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1053 / 88
p0 60.52 ± 0.04662
65
64
63
62
61
60
59
58
57

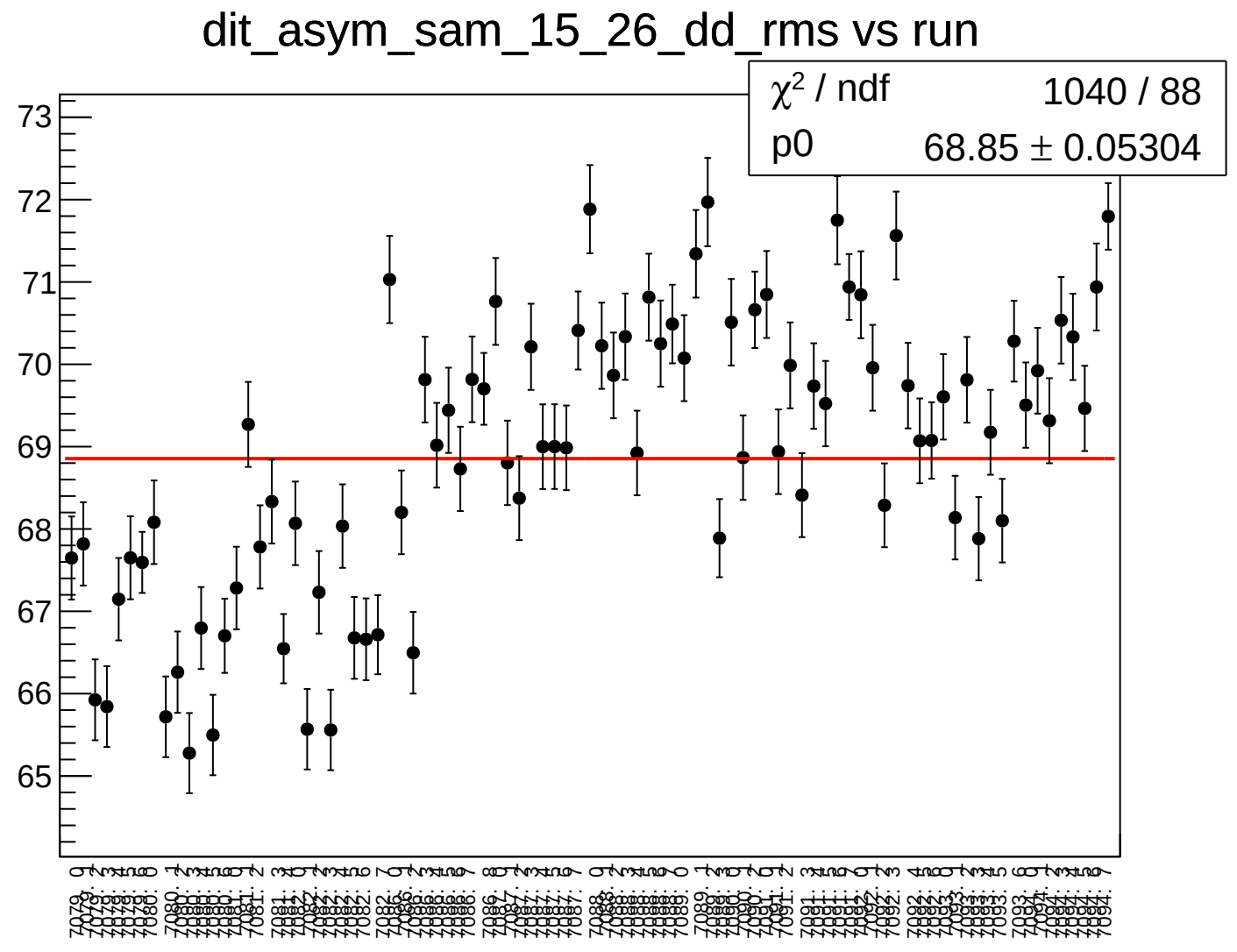

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.85 / 88
p0 818.2 ± 456.6
pull
Entries 89
Mean −624.7
Std Dev 0

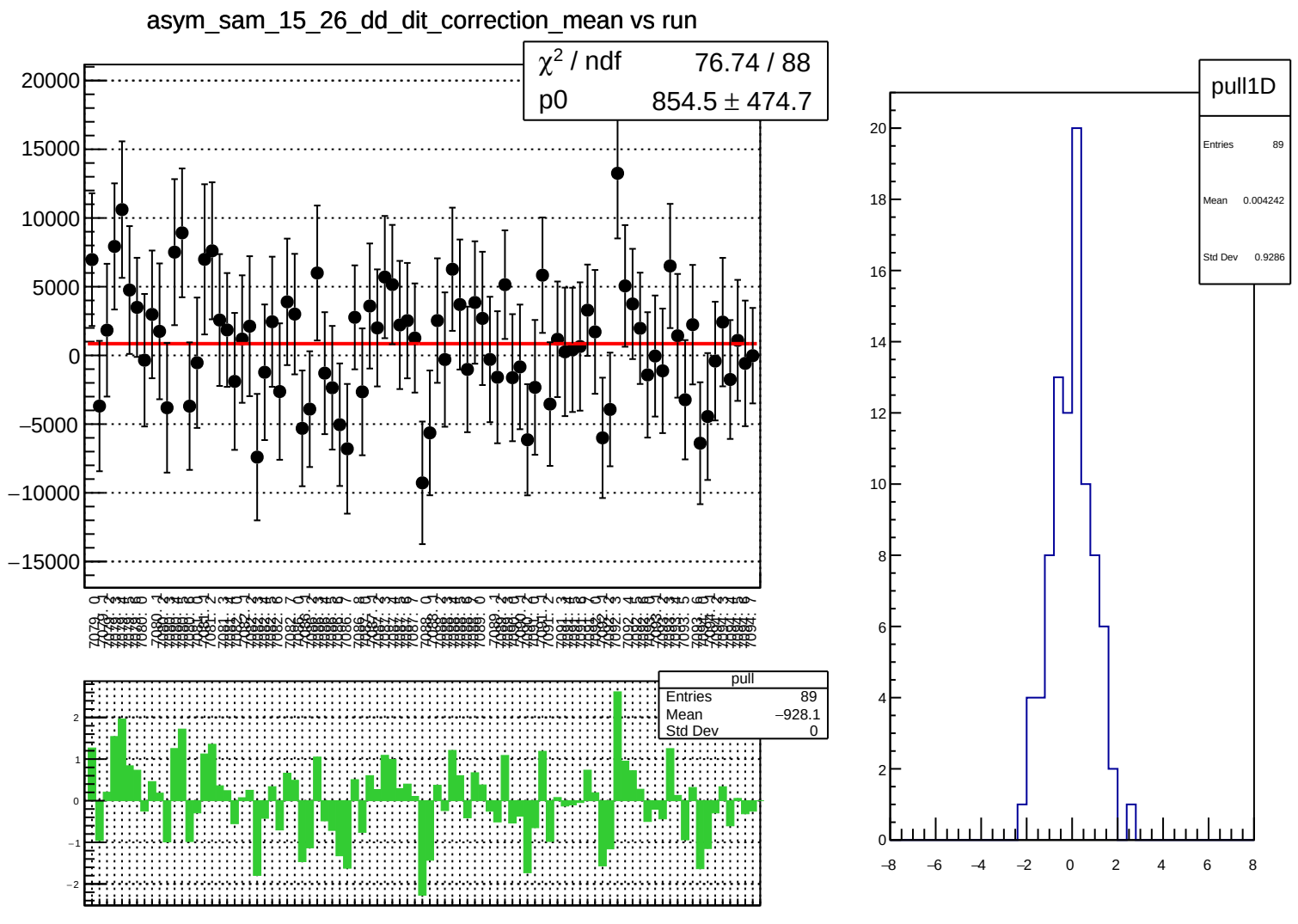

pull1D
Entries 89
Mean 0.006568
Std Dev 0.9353

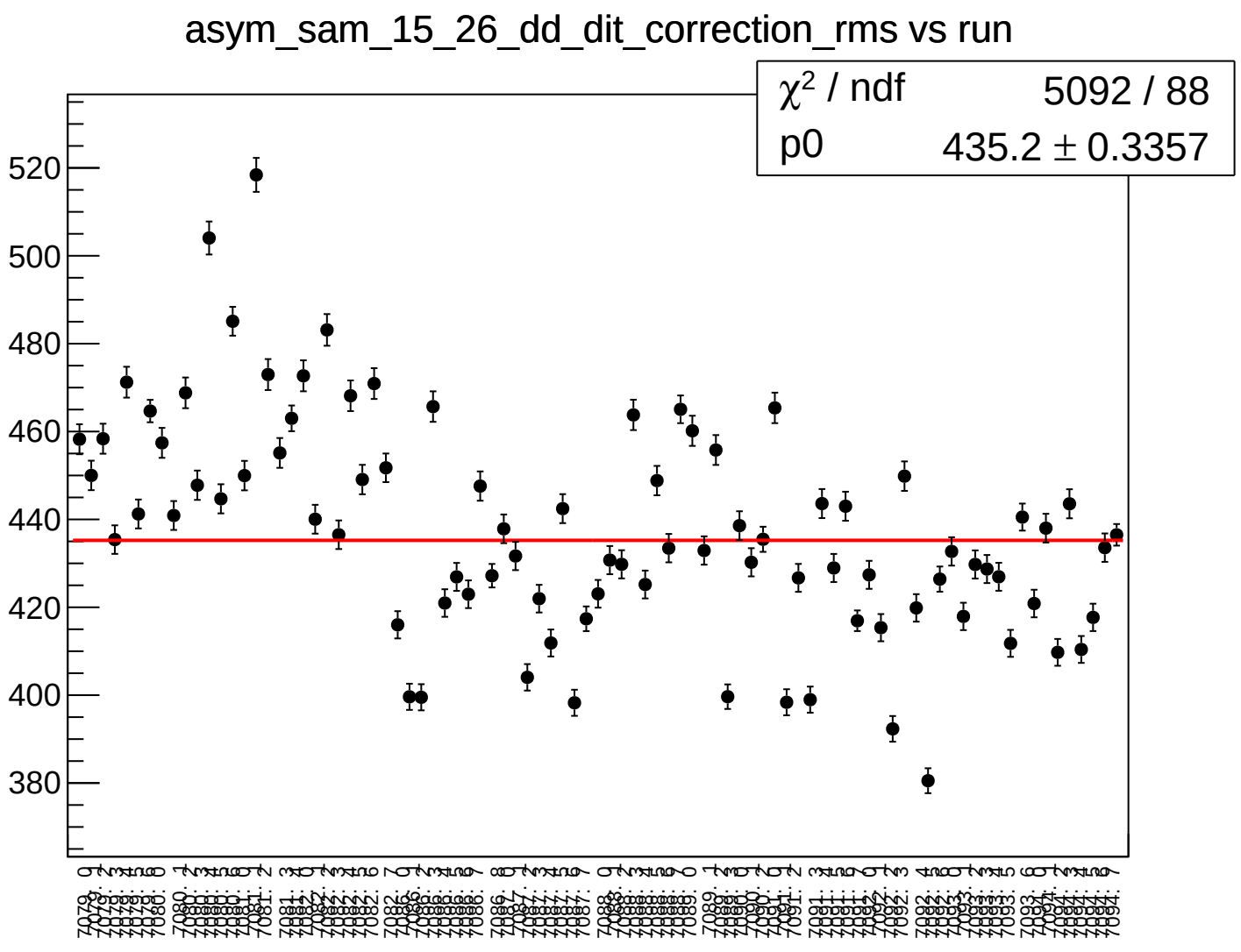

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 7162 / 88
p0 418.4 ± 0.3229
500
480
460
440
420
400
380
360

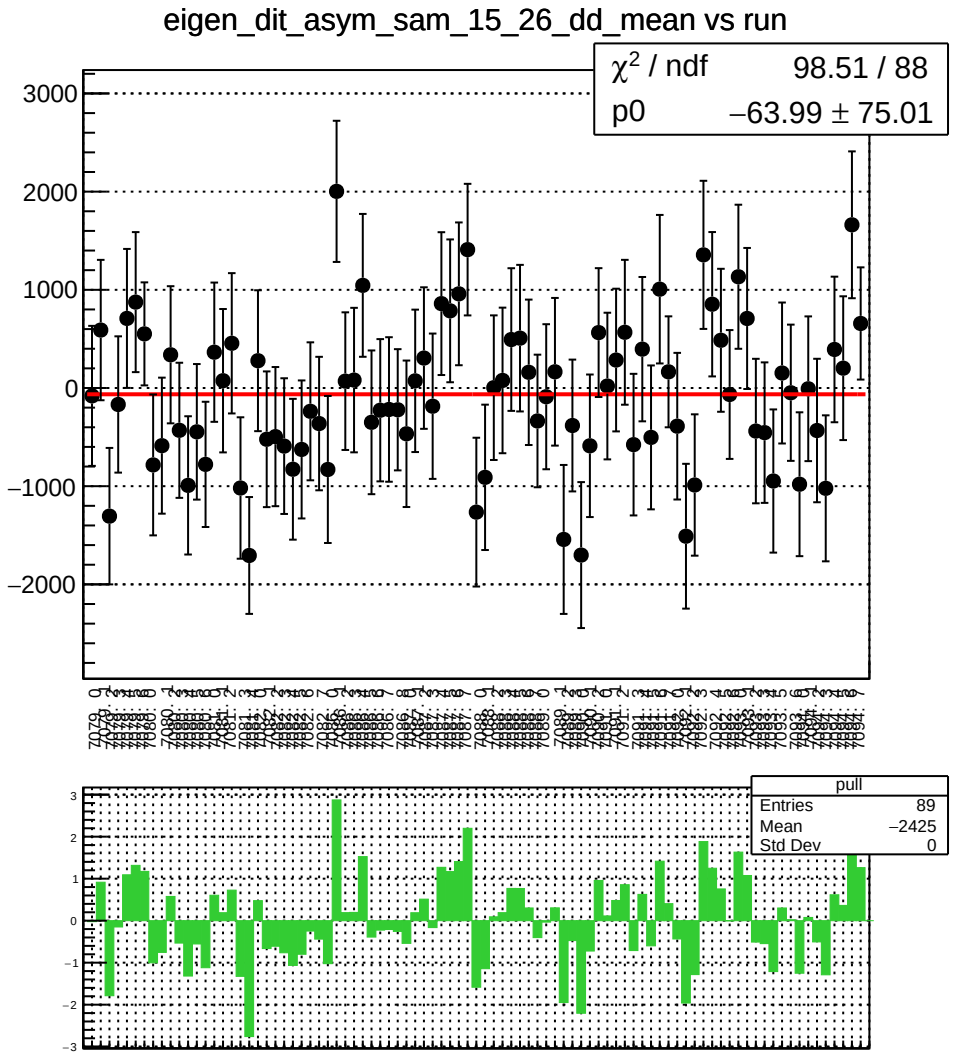

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 98.51 / 88
p0 −63.99 ± 75.01
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −2424
Std Dev 0
3
2
1
0
−1
−2
−3

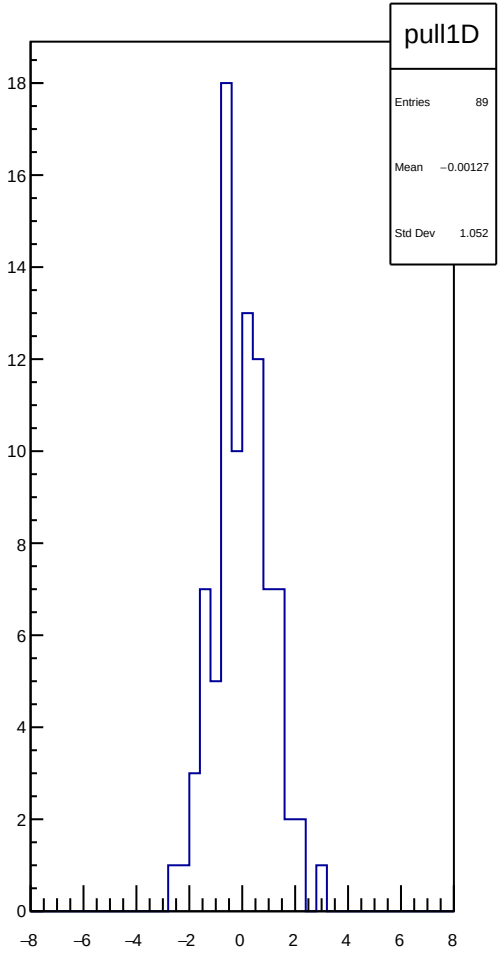

pull1D
Entries 89
Mean −0.001271
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

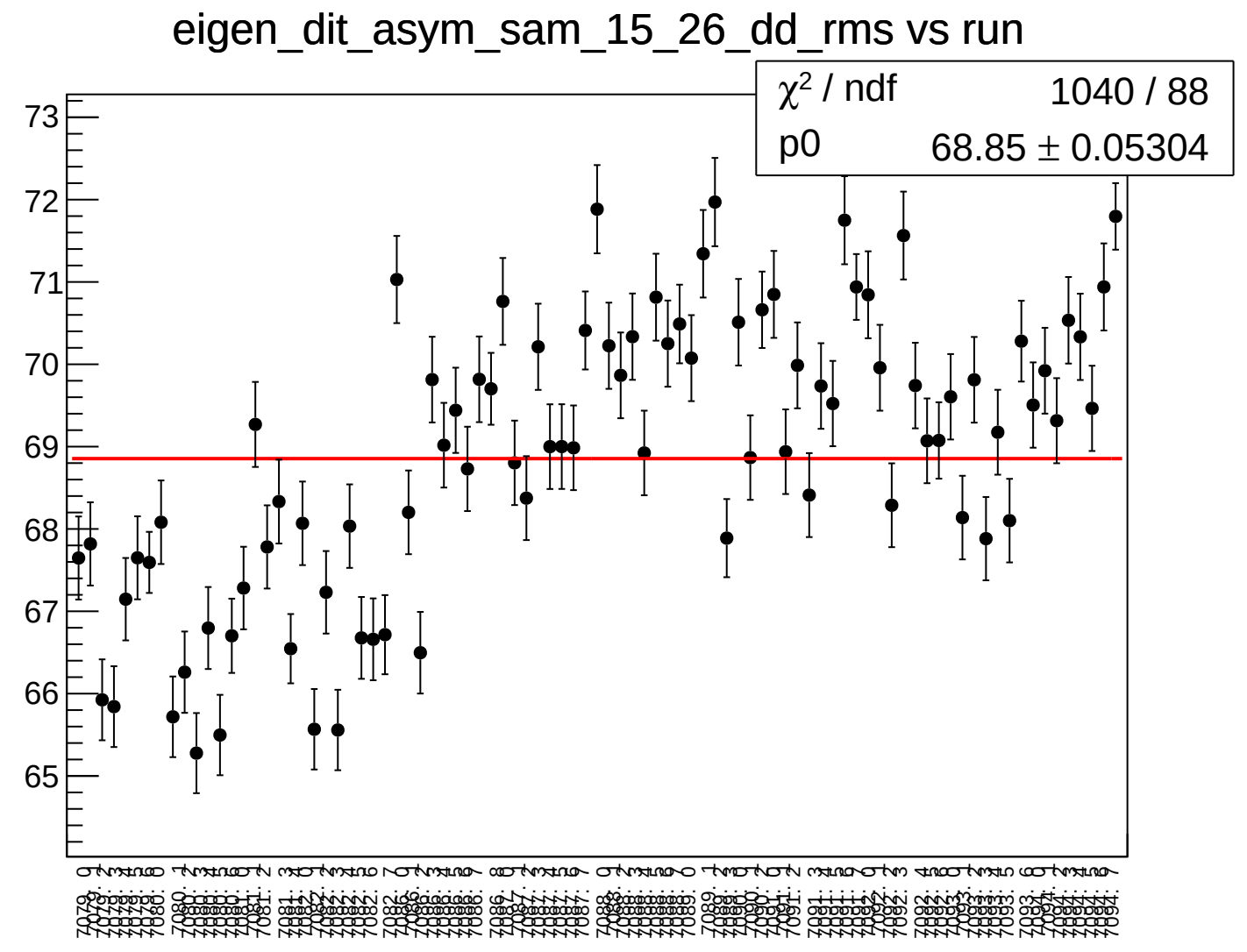

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1040 / 88
p0 68.85 ± 0.05304
73
72
71
70
69
68
67
66
65

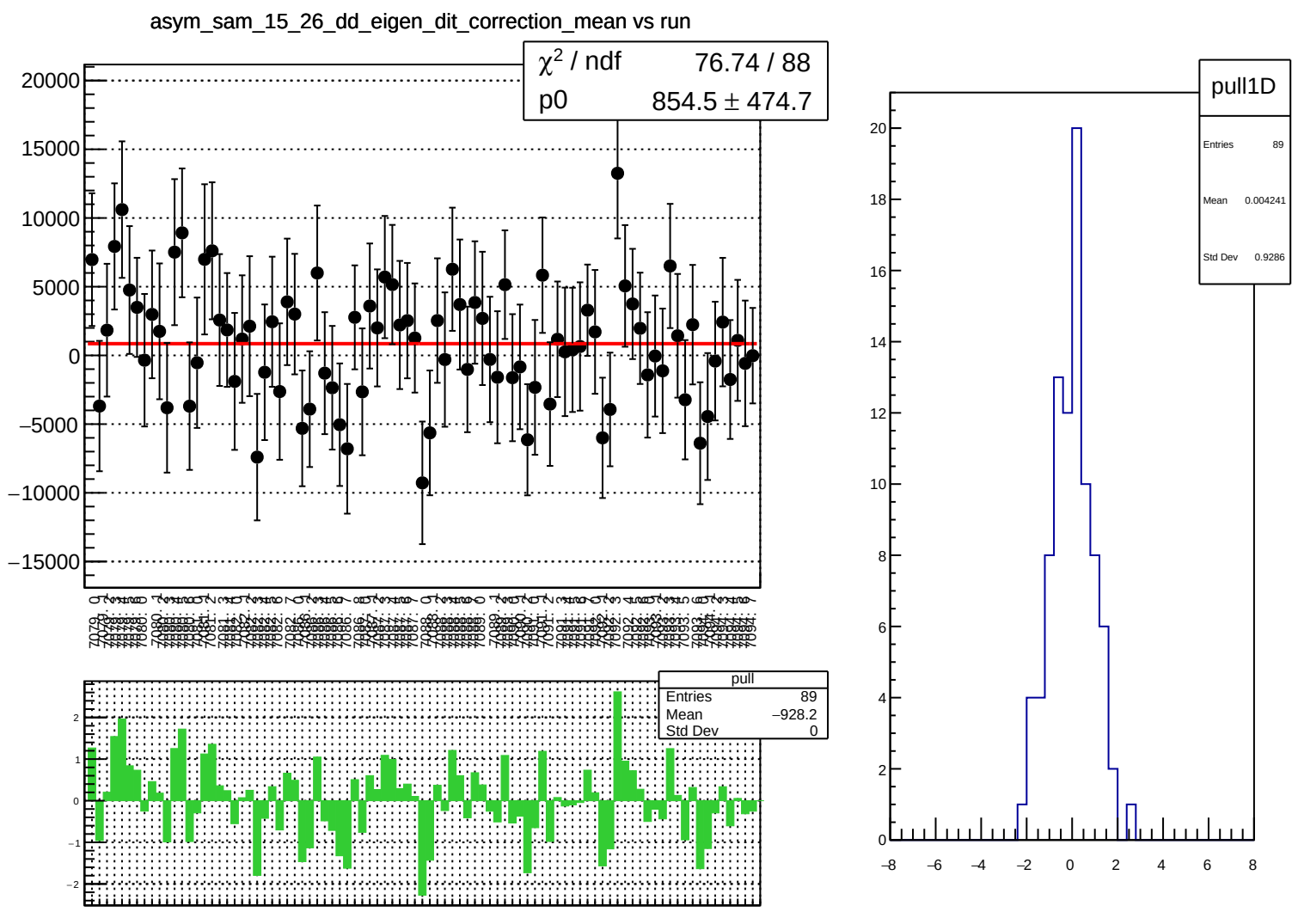

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 76.74 / 88
p0 854.5 ± 474.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −928.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.004242
Std Dev 0.9286
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

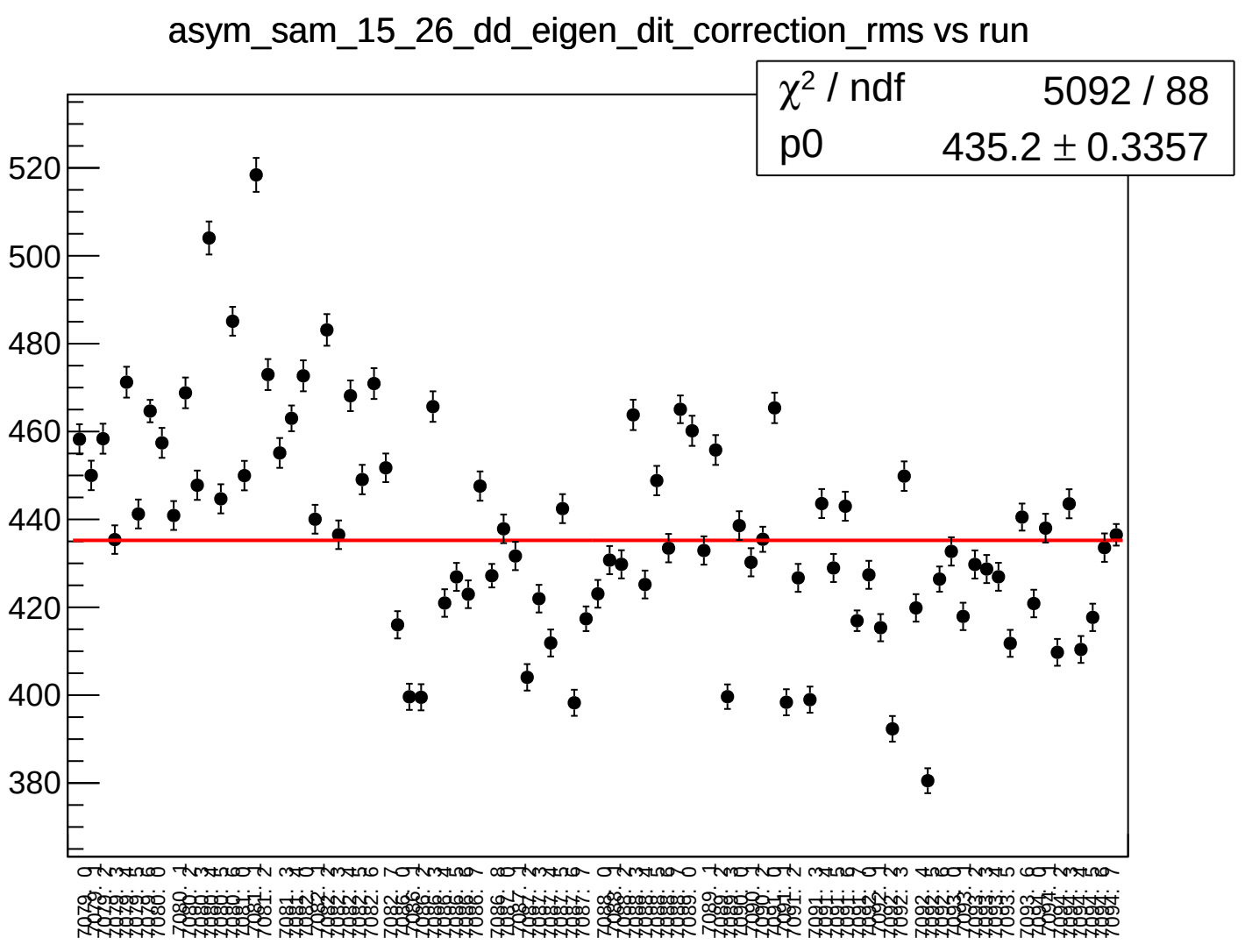

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 5092 / 88
p0 435.2 ± 0.3357
520
500
480
460
440
420
400
380

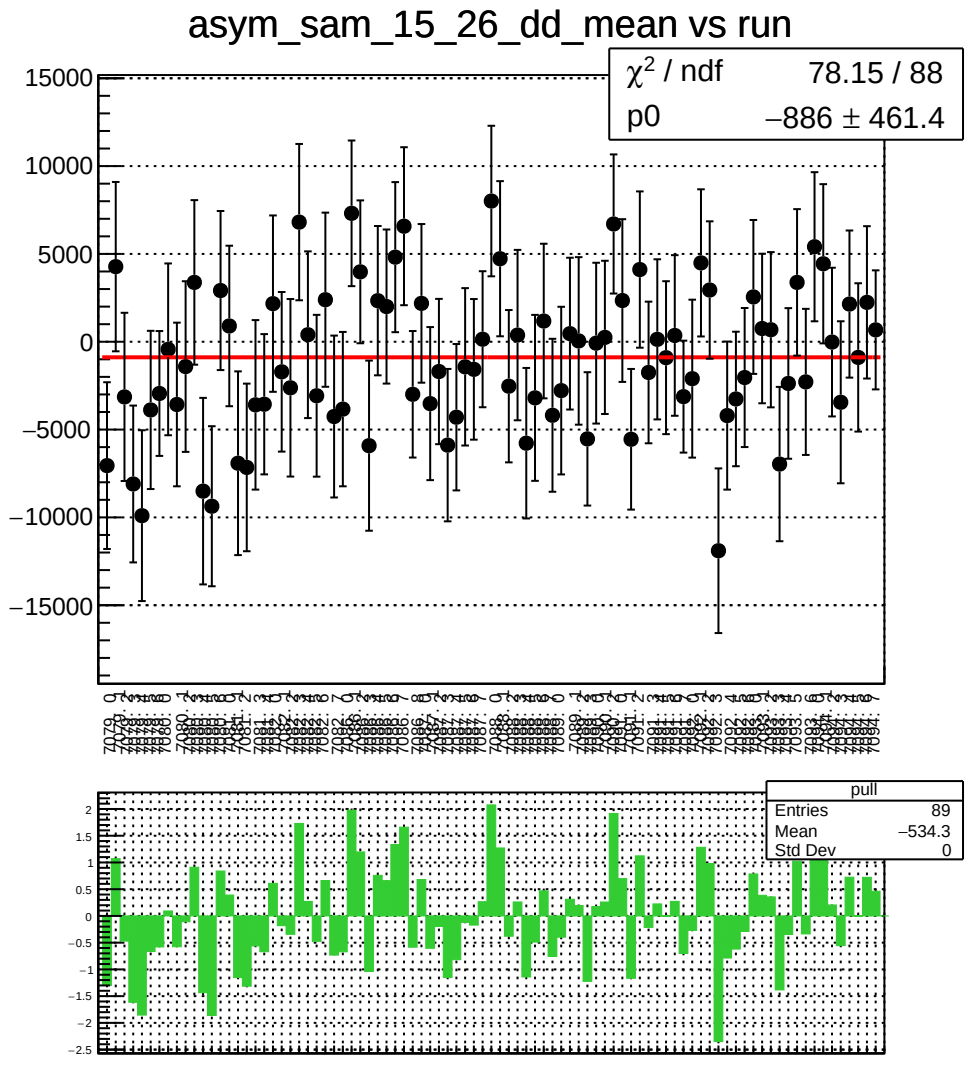

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 98.51 / 88
p0 −63.99 ± 75.01
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −2425
Std Dev 0
3
2
1
0
−1
−2
−3

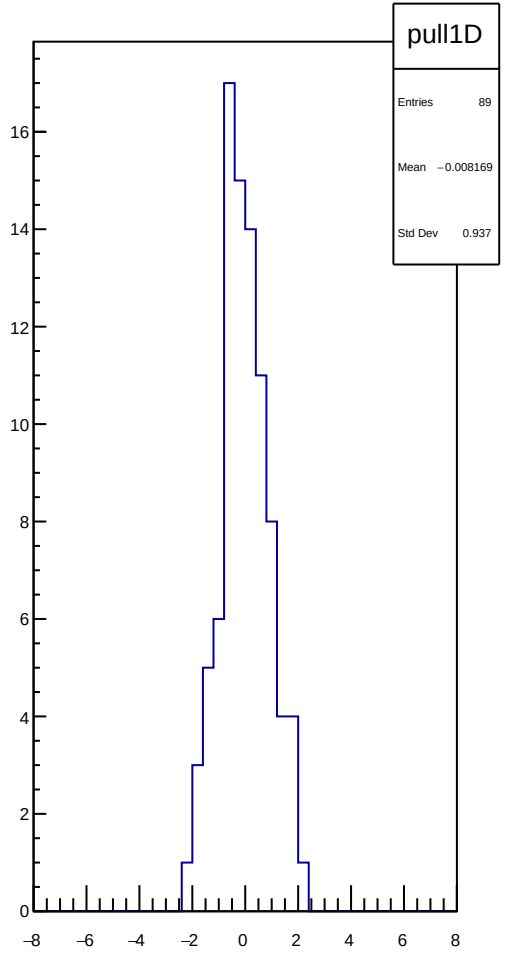

pull1D
Entries 89
Mean −0.00127
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

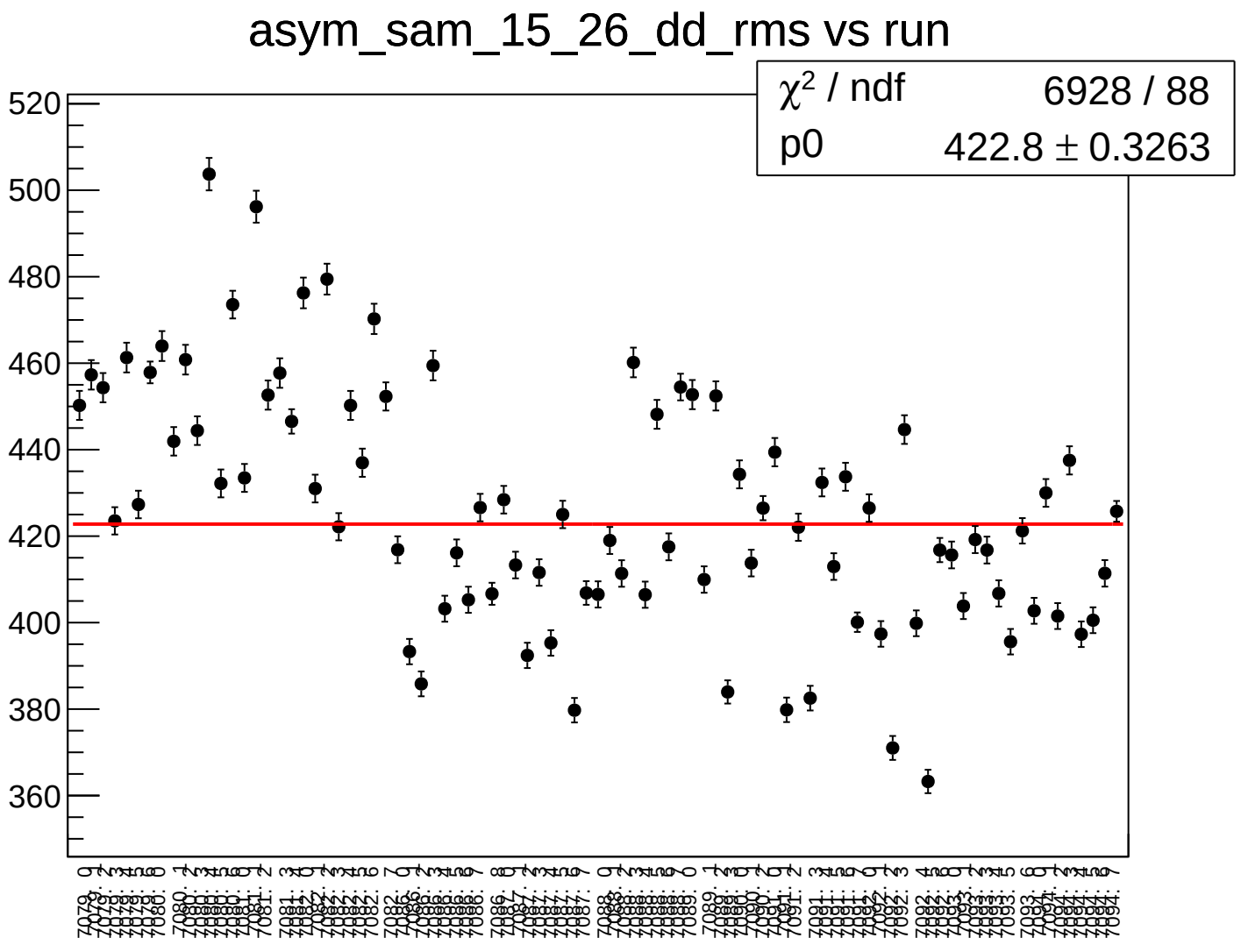

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1040 / 88
p0 68.85 ± 0.05304
73
72
71
70
69
68
67
66
65

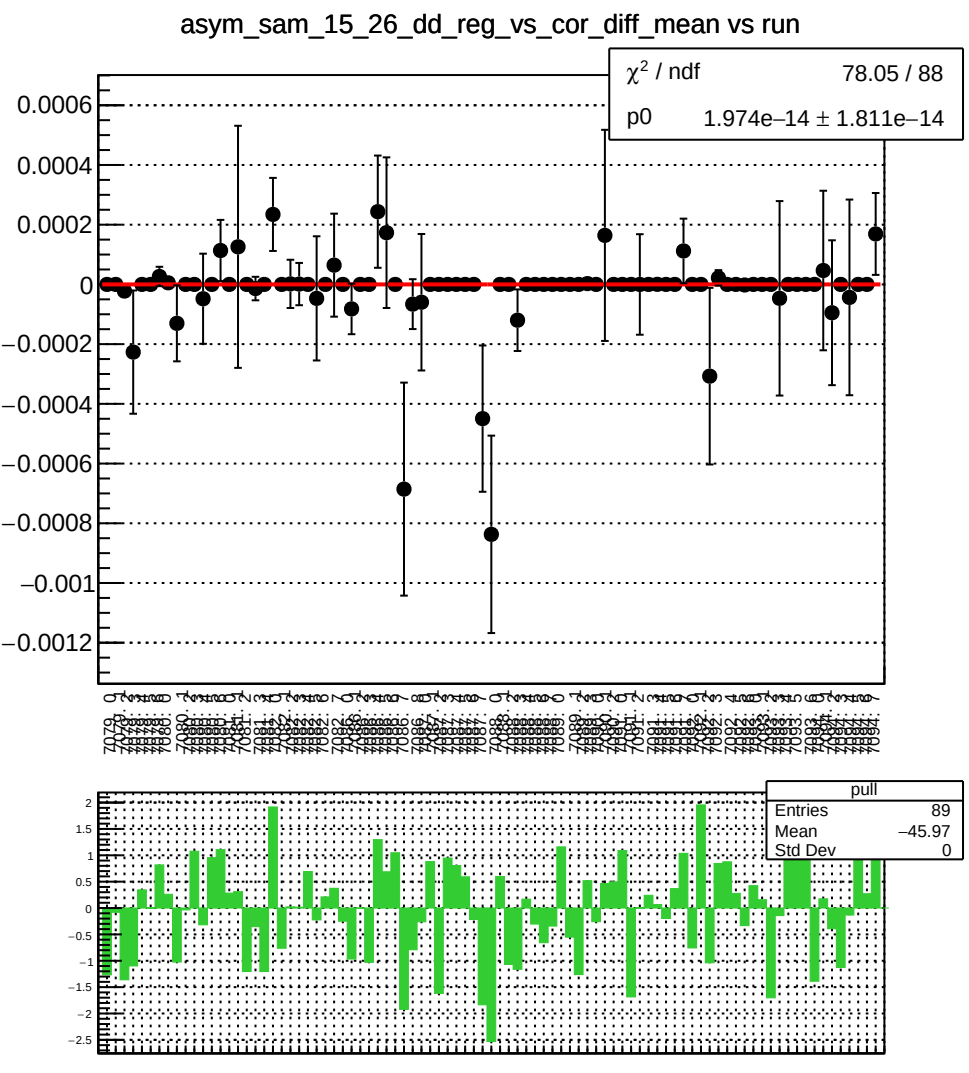

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.74 / 88
p0 854.5 ± 474.7
pull
Entries 89
Mean −928.2
Std Dev 0
pull1D
Entries 89
Mean 0.004241
Std Dev 0.9286

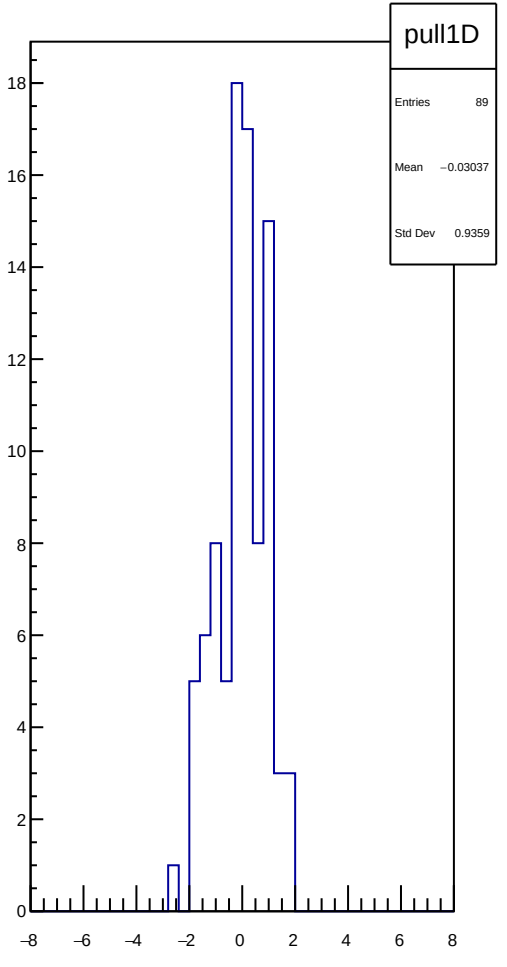

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 5092 / 88
p0 435.2 ± 0.3357
520
500
480
460
440
420
400
380

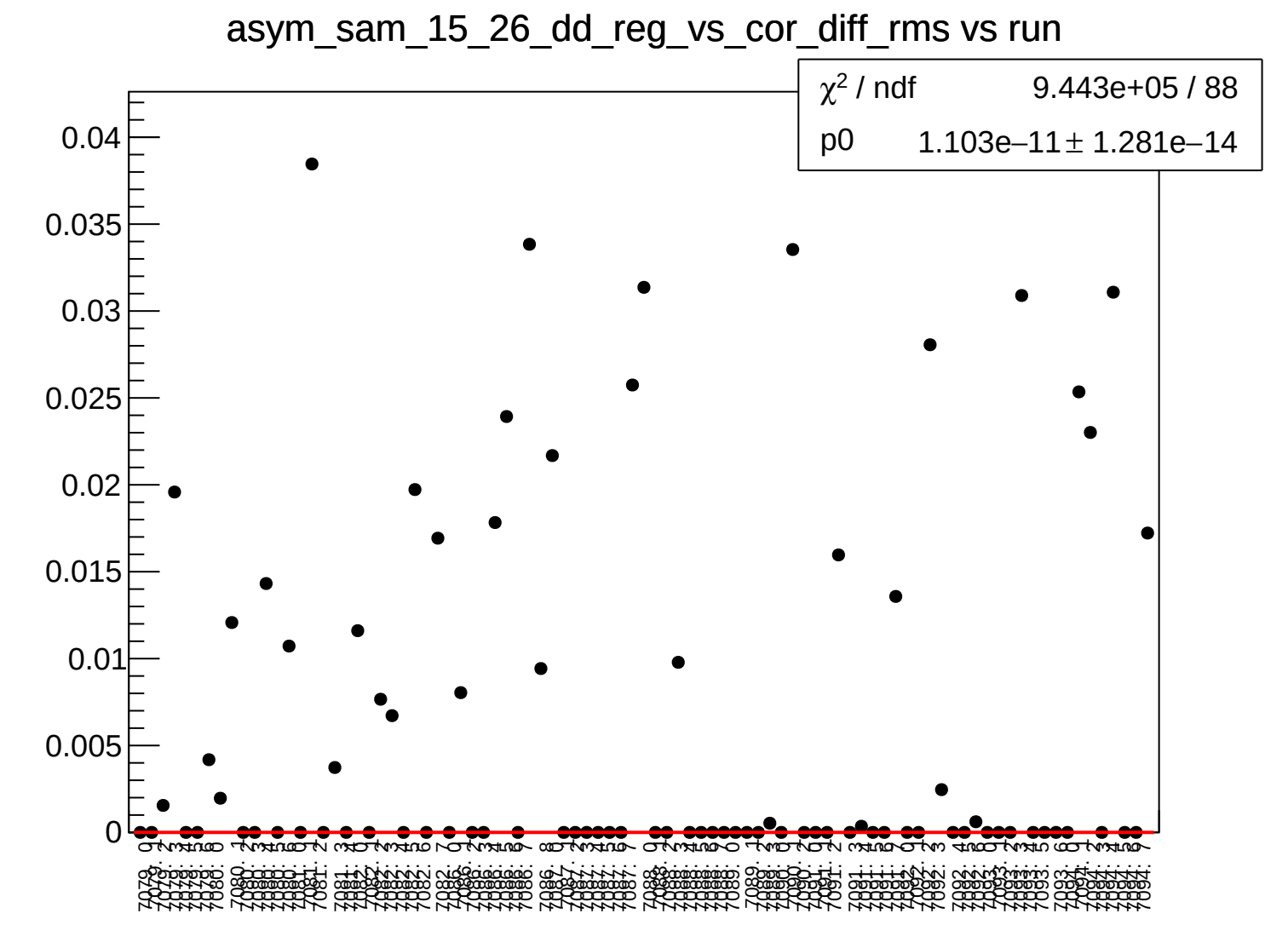

asym_sam_15_26_dd_mean vs run
χ² / ndf 78.15 / 88
p0 −886 ± 461.4
pull
Entries 89
Mean −534.3
Std Dev 0

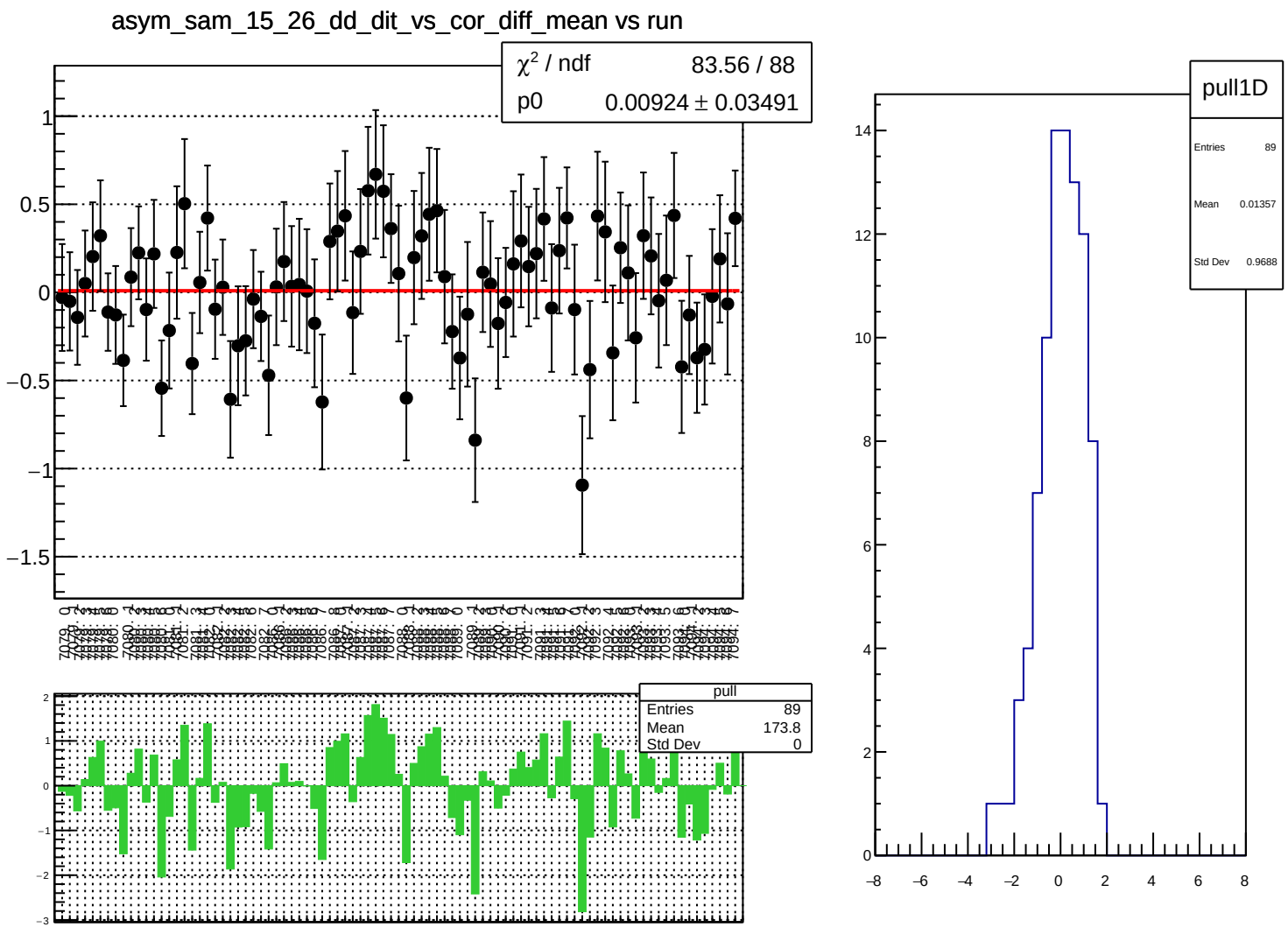

pull1D
Entries 89
Mean −0.008169
Std Dev 0.937

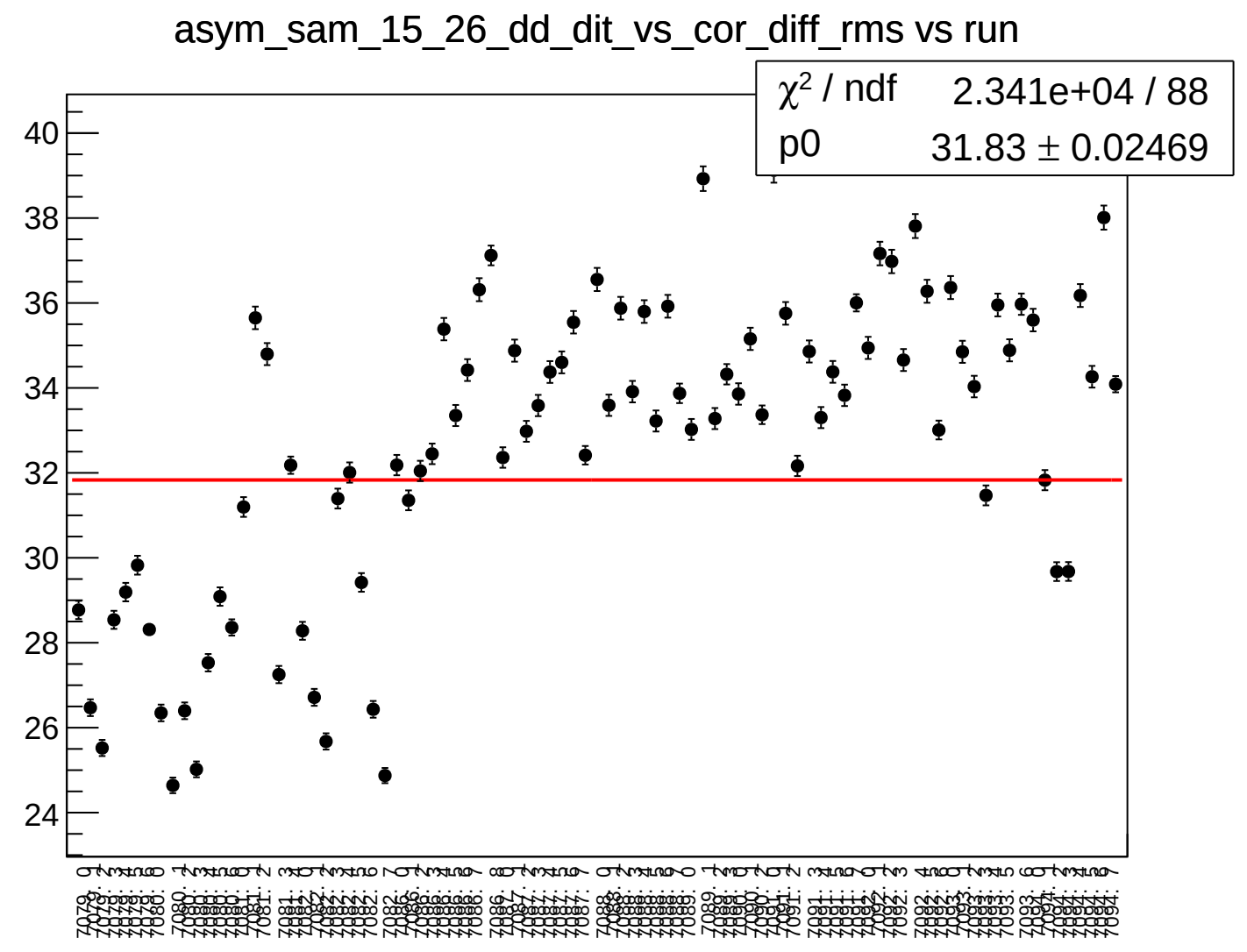

asym_sam_15_26_dd_rms vs run
χ² / ndf 6928 / 88
p0 422.8 ± 0.3263
520
500
480
460
440
420
400
380
360

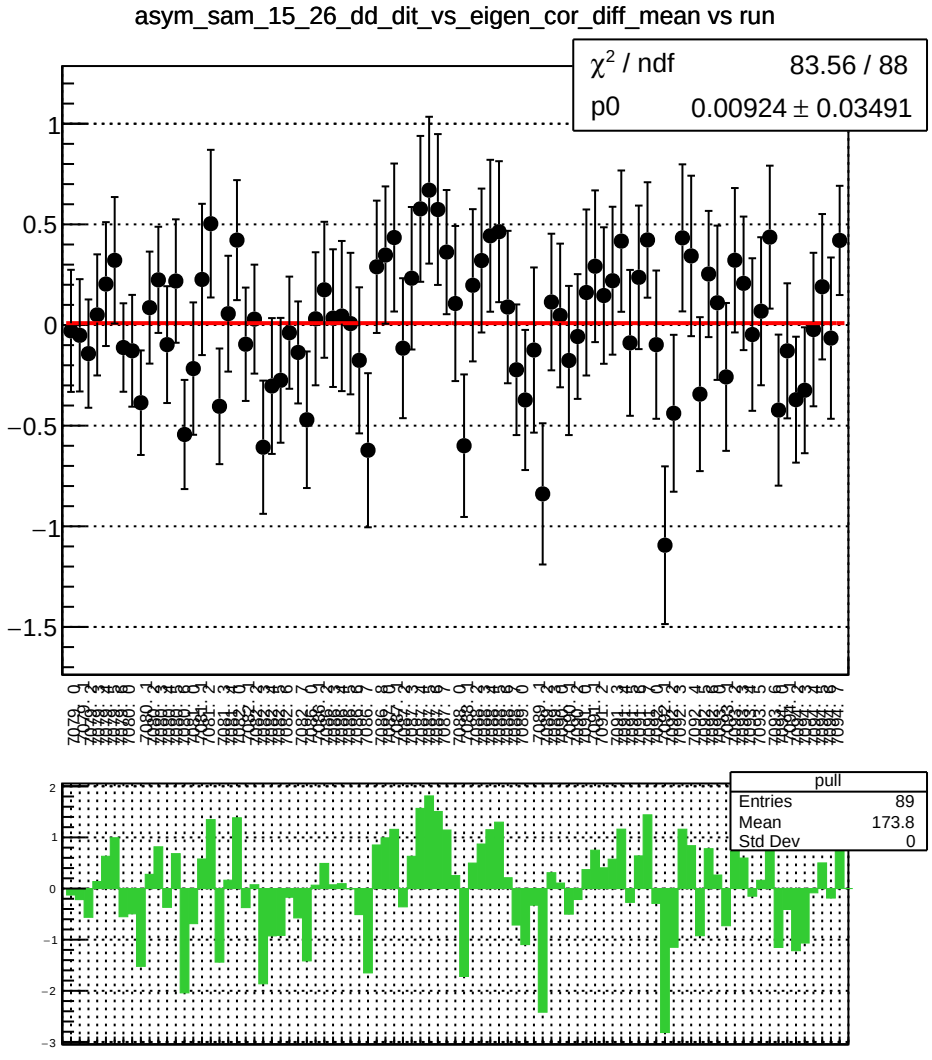

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.05 / 88
p0 1.974e−14 ± 1.811e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 89
Mean −45.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

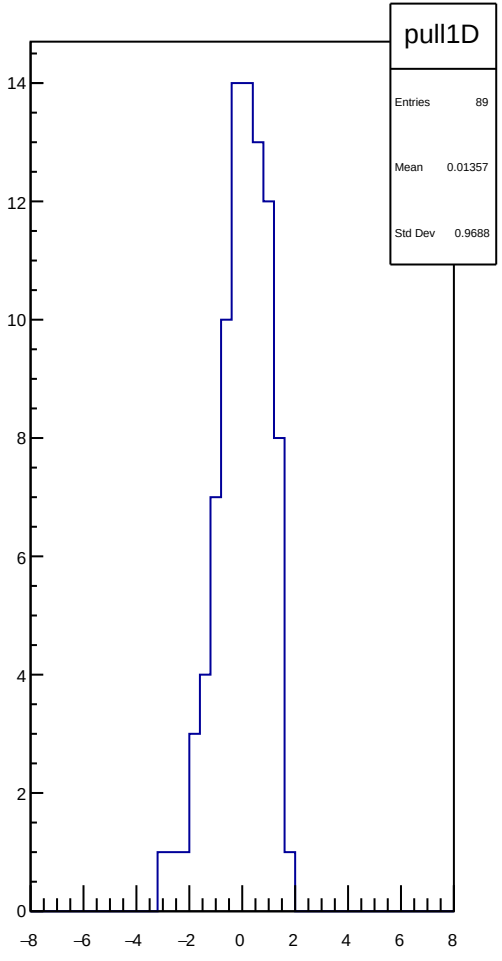

pull1D
Entries 89
Mean −0.03037
Std Dev 0.9359
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

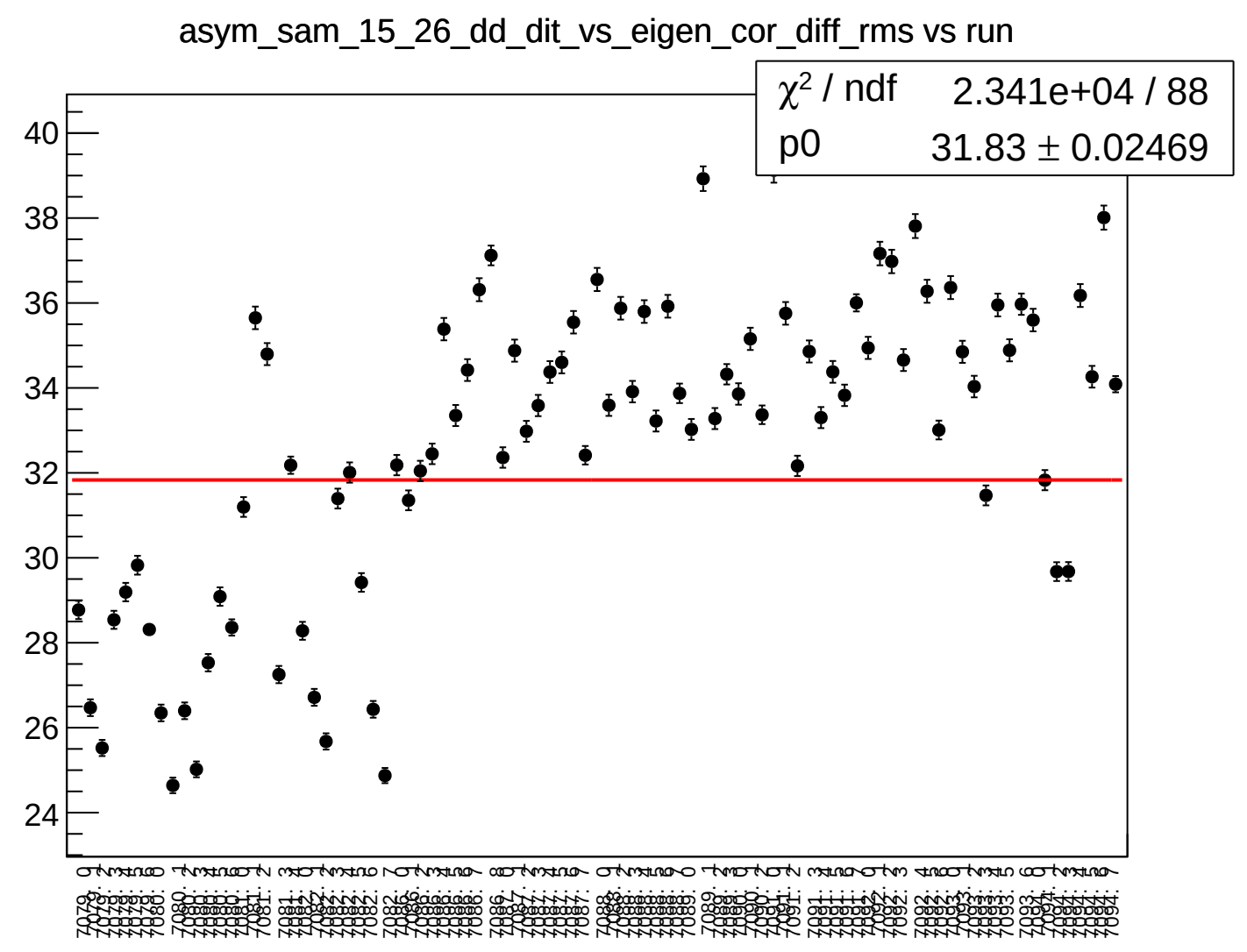

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.443e+05 / 88
p0 1.103e−11 ± 1.281e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

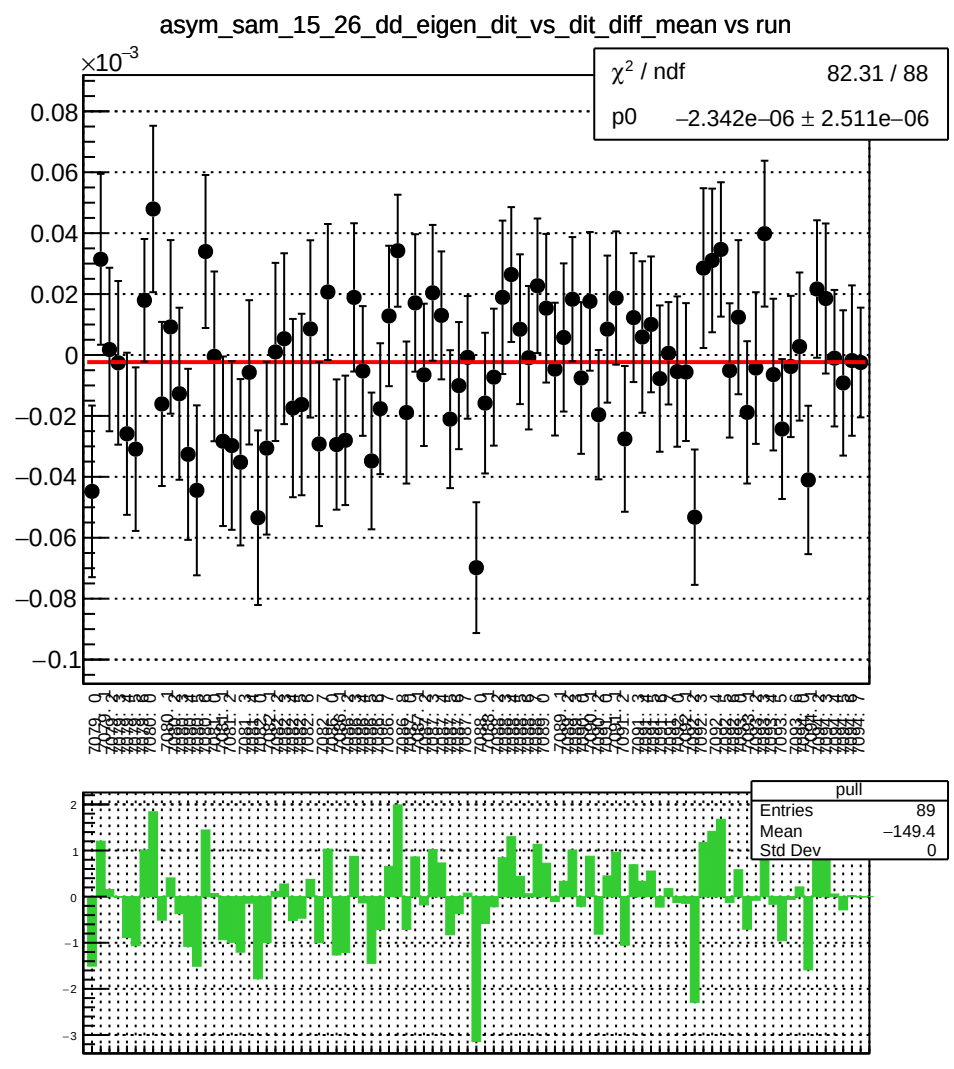

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.56 / 88
p0 0.00924 ± 0.03491
pull
Entries 89
Mean 173.8
Std Dev 0
pull1D
Entries 89
Mean 0.01357
Std Dev 0.9688

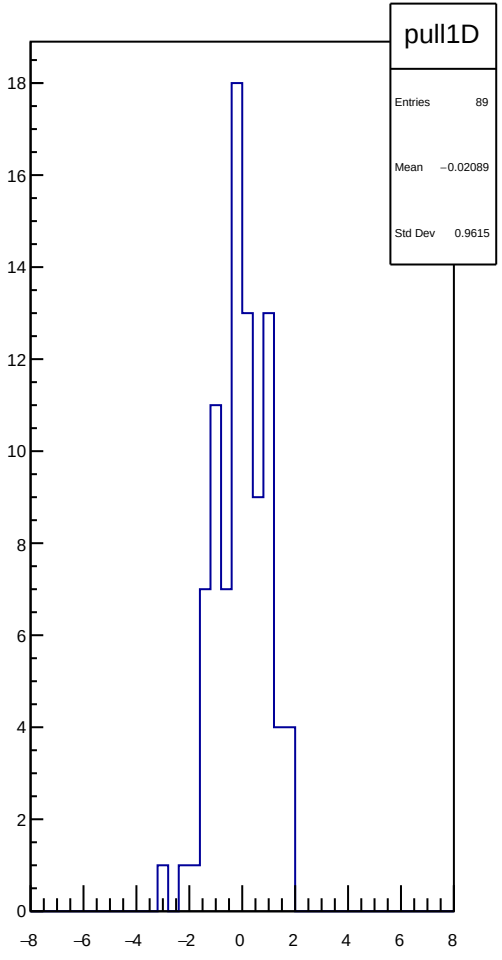

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.341e+04 / 88
p0 31.83 ± 0.02469
40
38
36
34
32
30
28
26
24

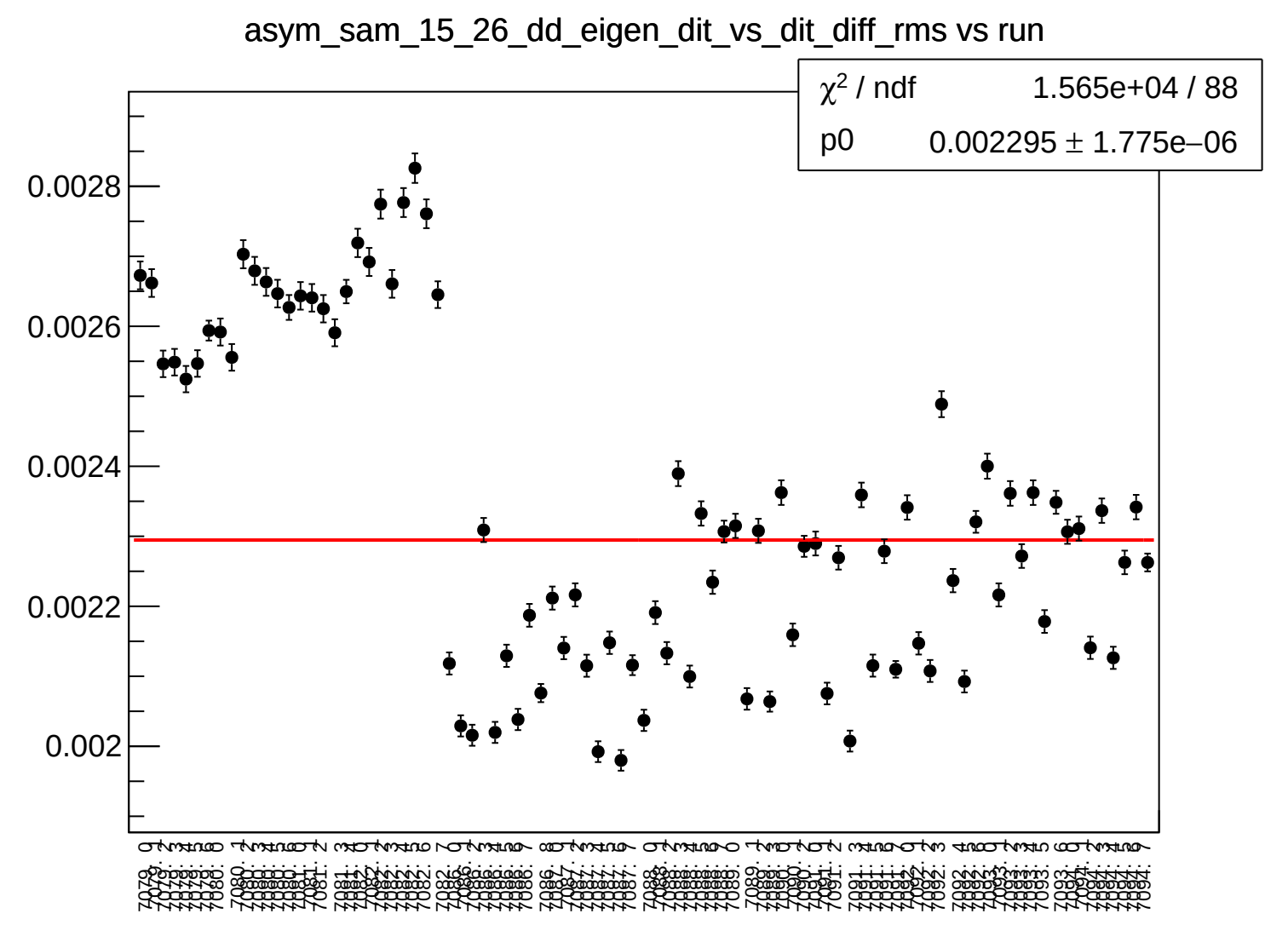

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.56 / 88
p0 0.00924 ± 0.03491
pull
Entries 89
Mean 173.8
Std Dev 0

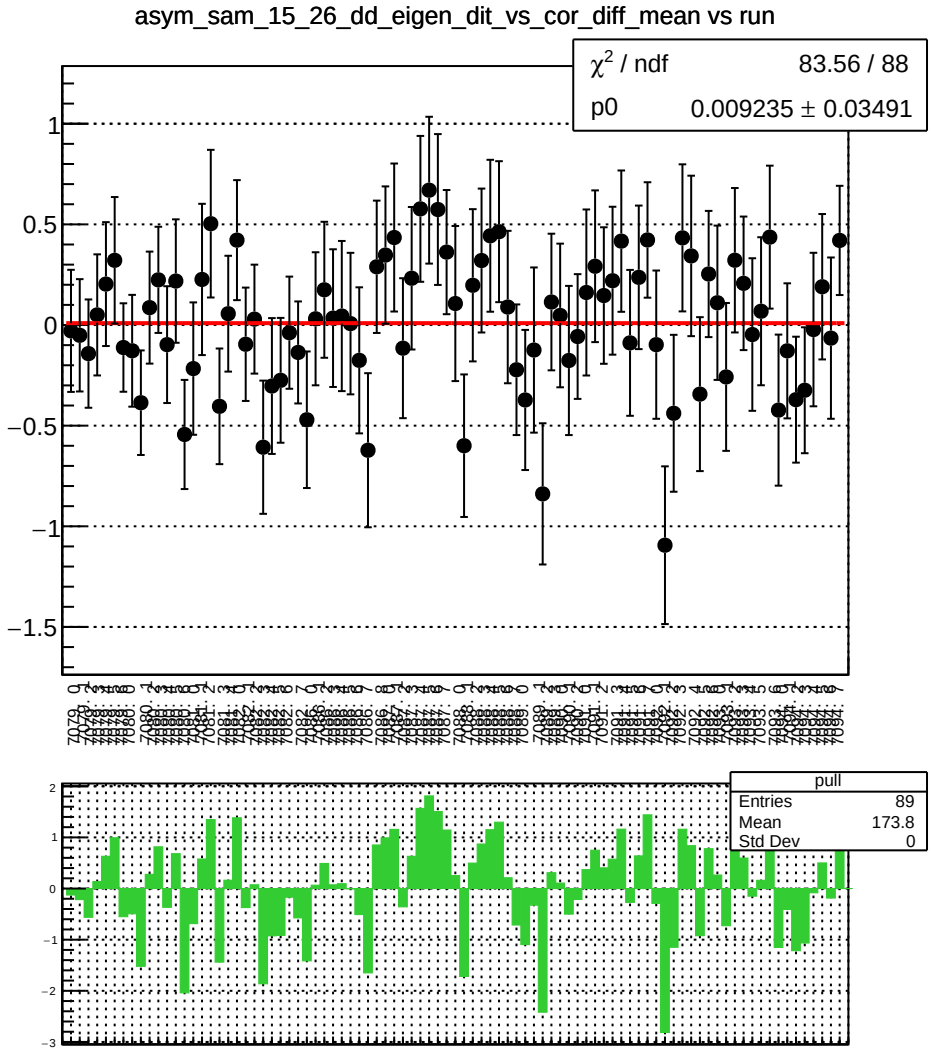

pull1D
Entries 89
Mean 0.01357
Std Dev 0.9688

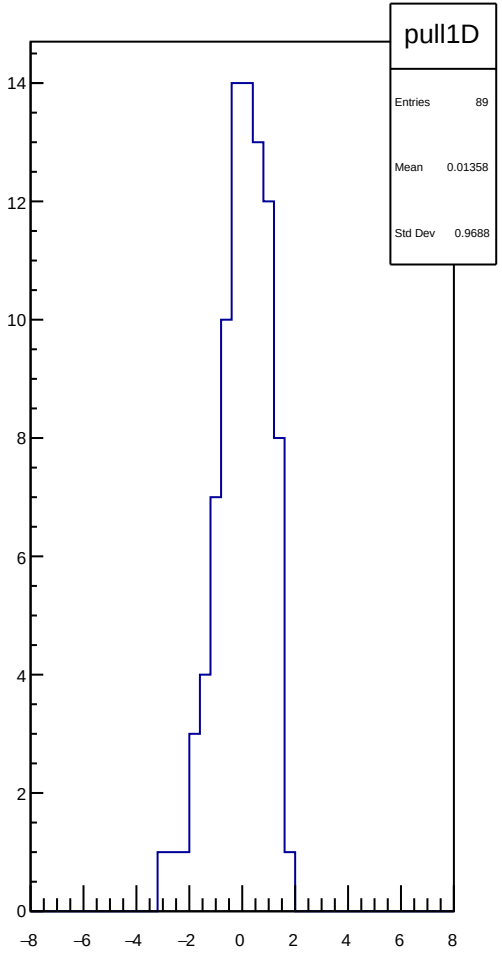

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.341e+04 / 88
p0 31.83 ± 0.02469
40
38
36
34
32
30
28
26
24

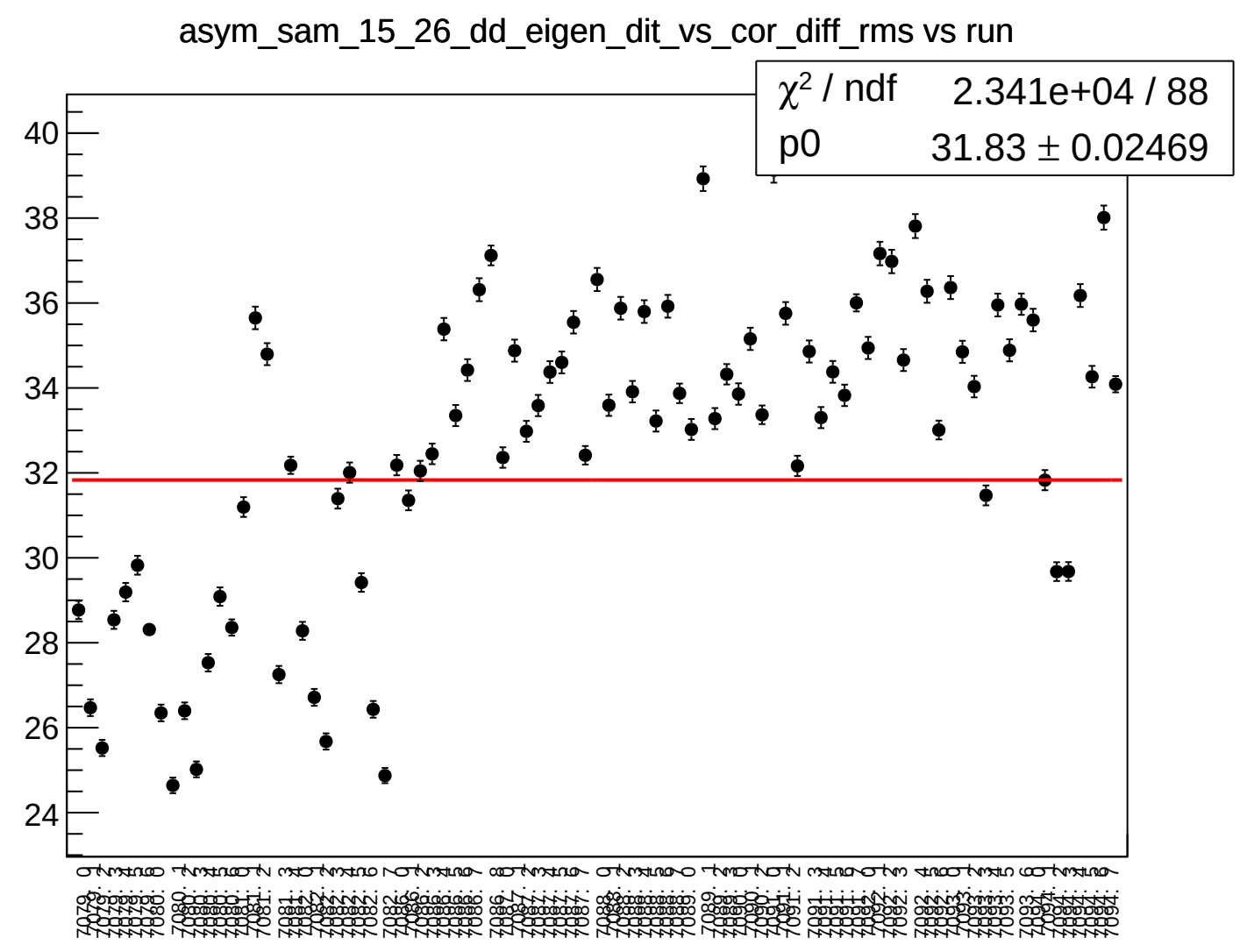

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.31 / 88
p0 −2.342e−06 ± 2.511e−06
pull
Entries 89
Mean −149.4
Std Dev 0

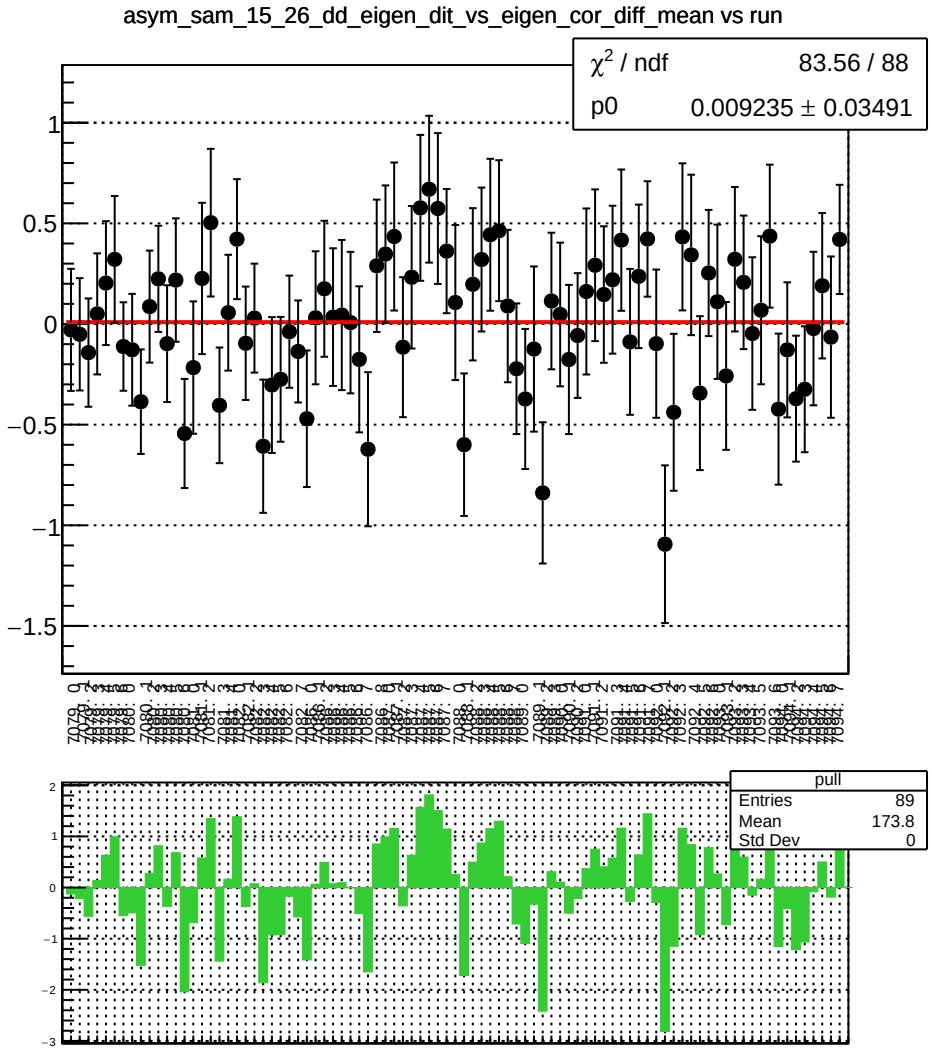

pull1D
Entries 89
Mean −0.02089
Std Dev 0.9615

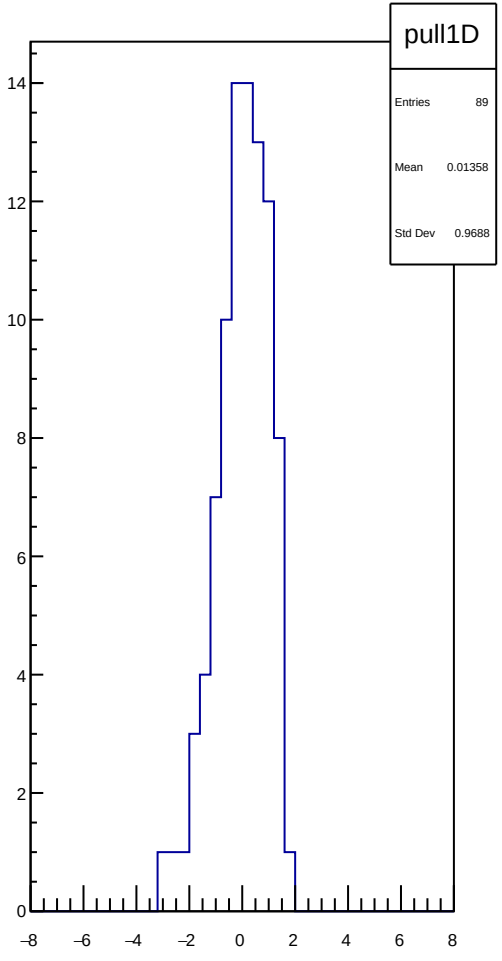

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.565e+04 / 88
p0 0.002295 ± 1.775e−06
0.0028
0.0026
0.0024
0.0022
0.002

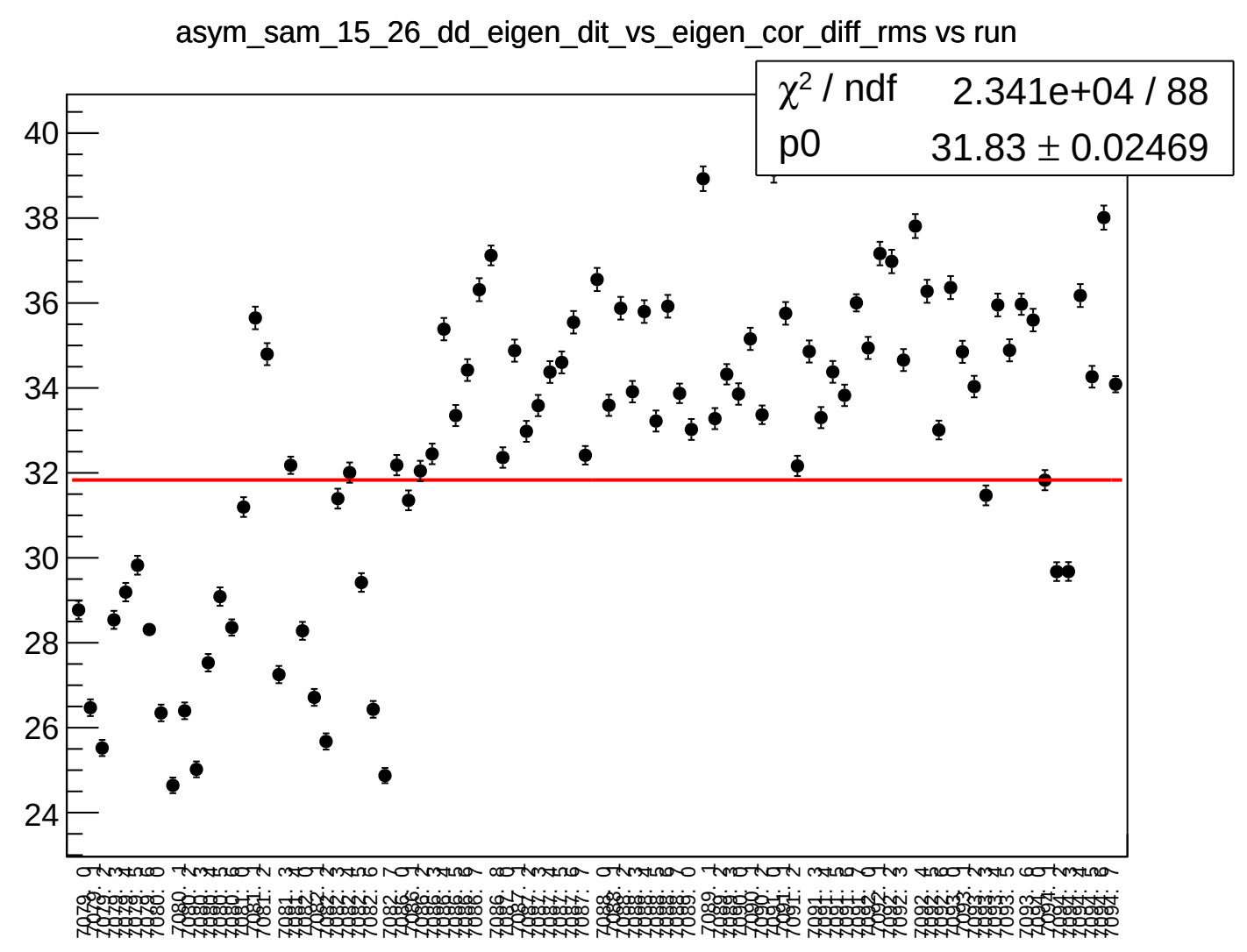

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.56 / 88
p0 0.009235 ± 0.03491
pull
Entries 89
Mean 173.8
Std Dev 0

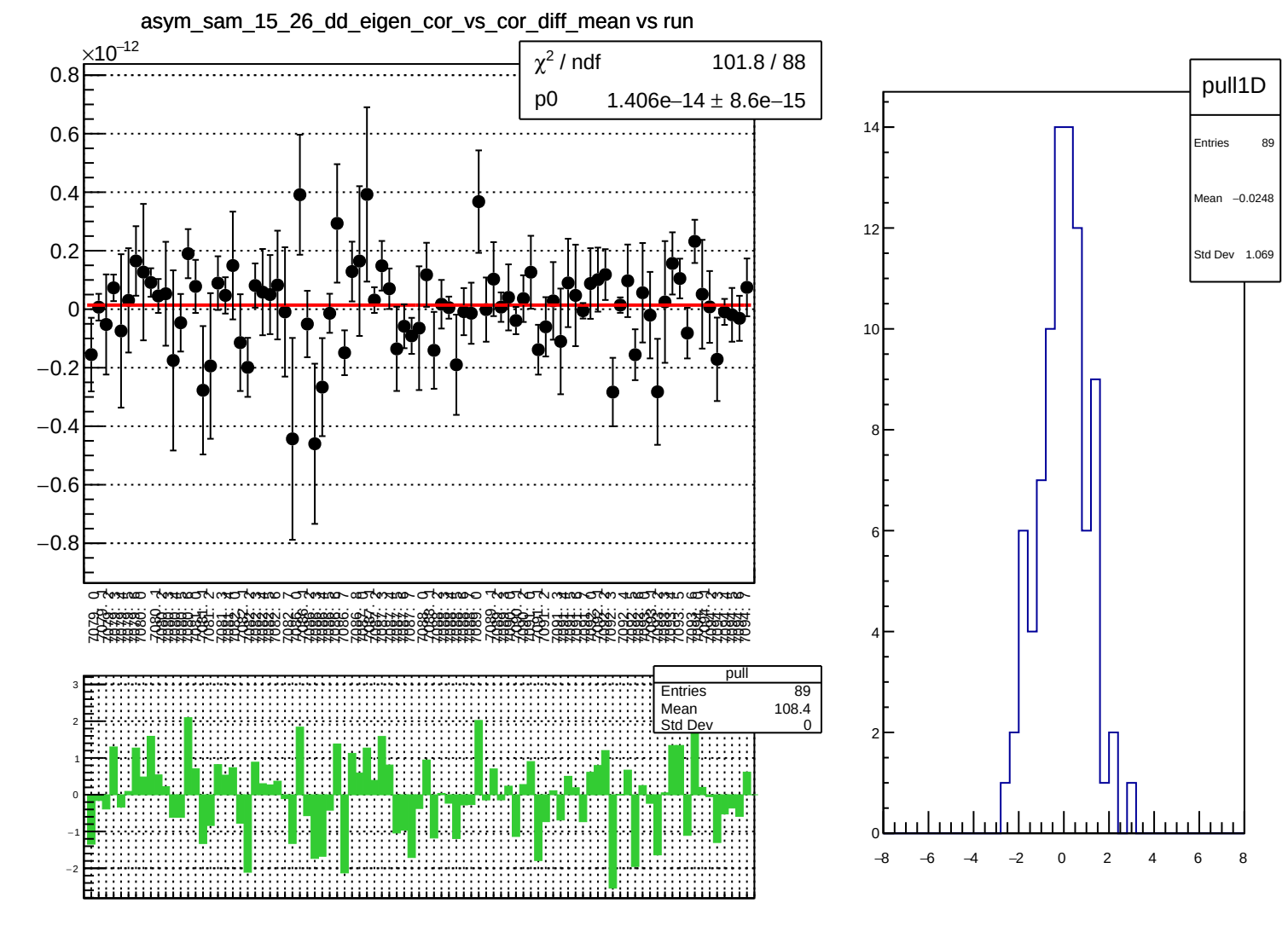

pull1D
Entries 89
Mean 0.01358
Std Dev 0.9688

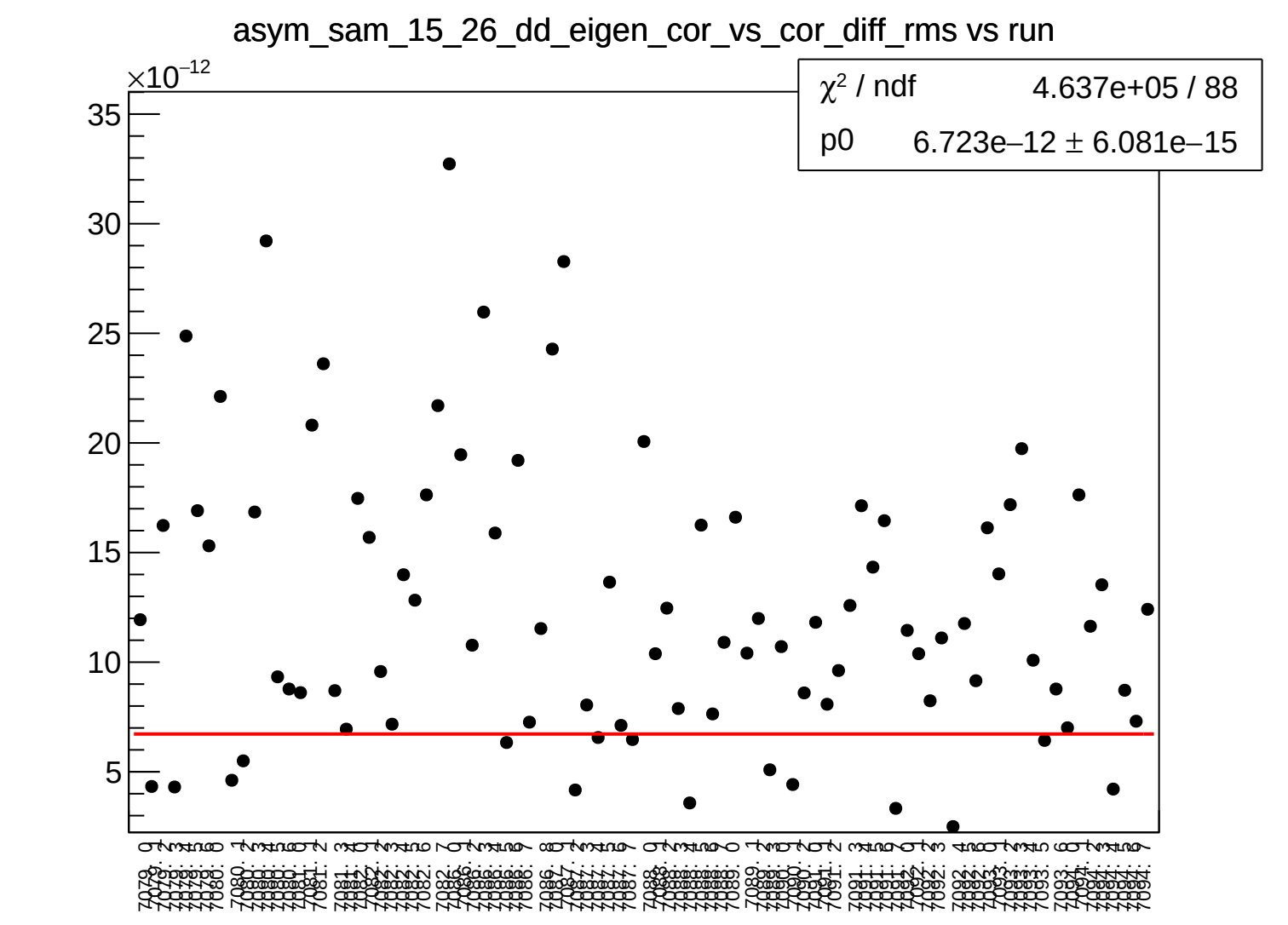

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.341e+04 / 88
p0 31.83 ± 0.02469
40
38
36
34
32
30
28
26
24

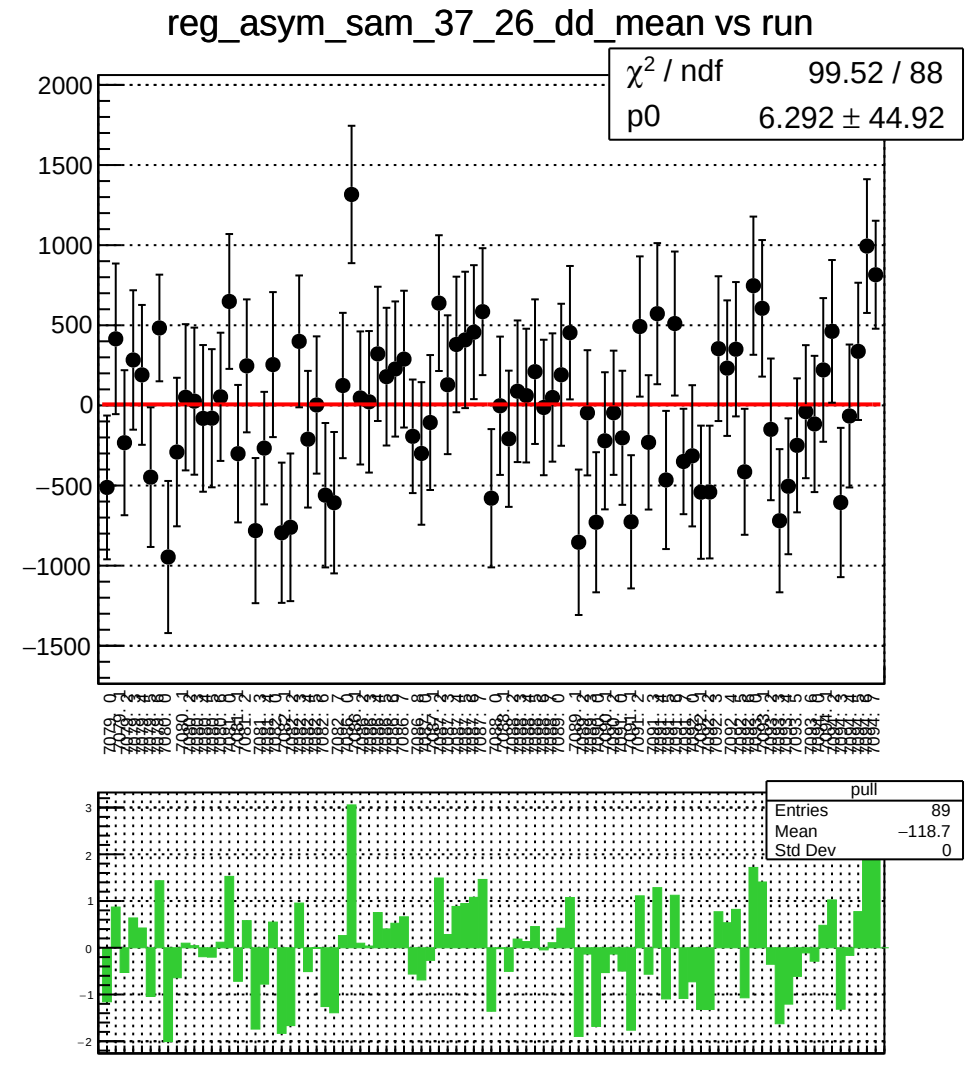

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.56 / 88
p0 0.009235 ± 0.03491
pull
Entries 89
Mean 173.8
Std Dev 0

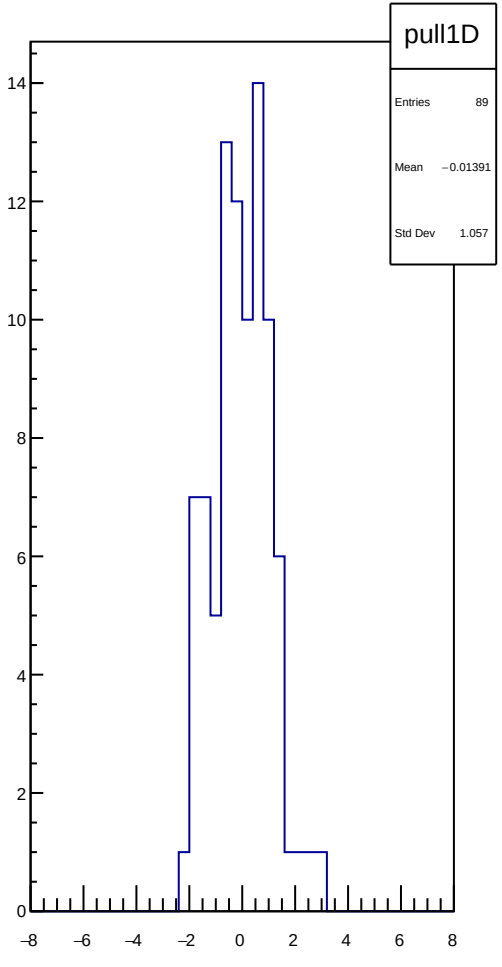

pull1D
Entries 89
Mean 0.01358
Std Dev 0.9688

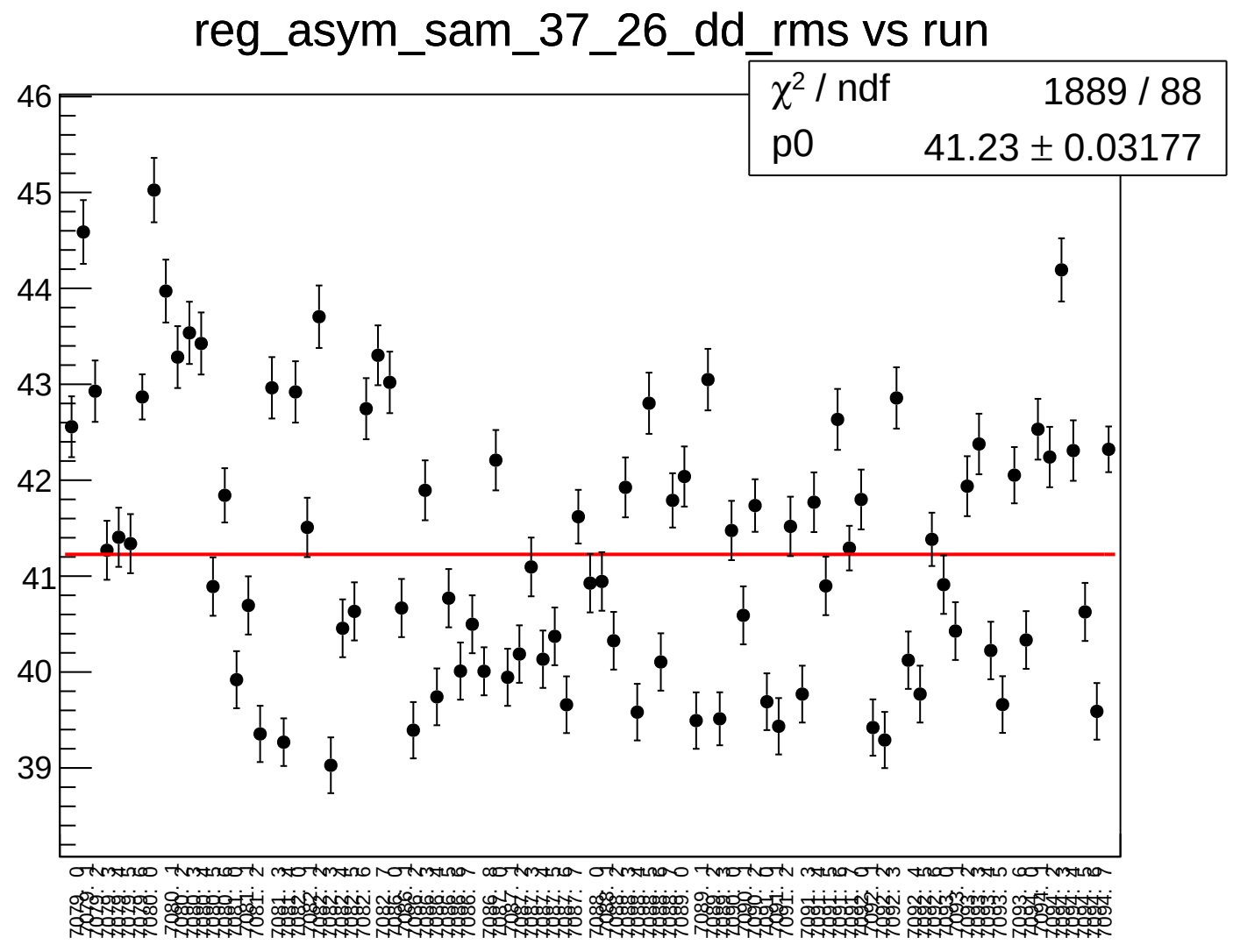

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.341e+04 / 88
p0 31.83 ± 0.02469
40
38
36
34
32
30
28
26
24

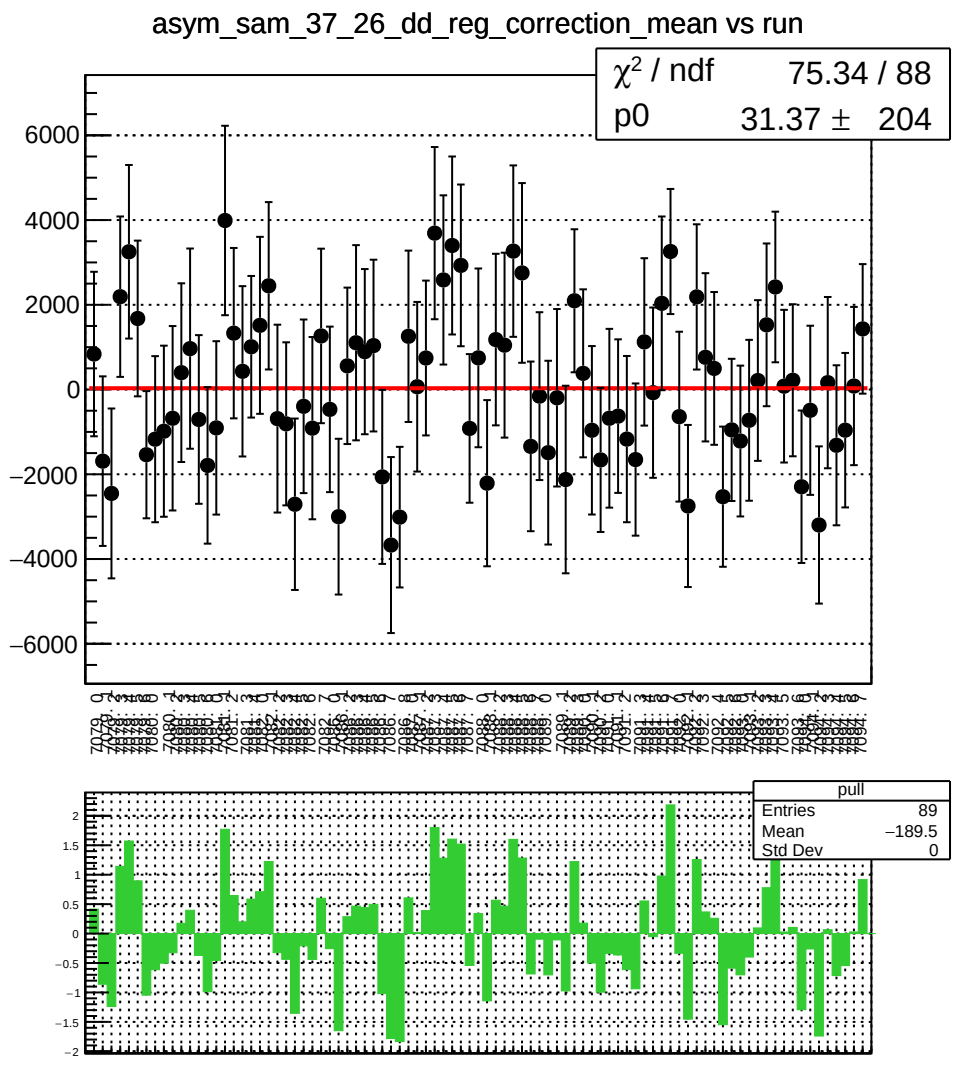

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.8 / 88
p0 1.406e−14 ± 8.6e−15
pull
Entries 89
Mean 108.4
Std Dev 0
pull1D
Entries 89
Mean −0.0248
Std Dev 1.069

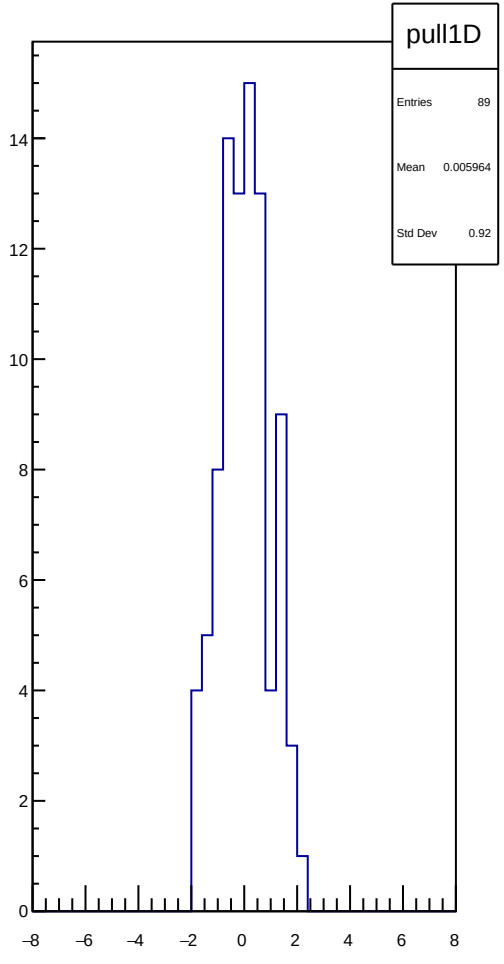

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.637e+05 / 88
p0 6.723e−12 ± 6.081e−15
35
30
25
20
15
10
5

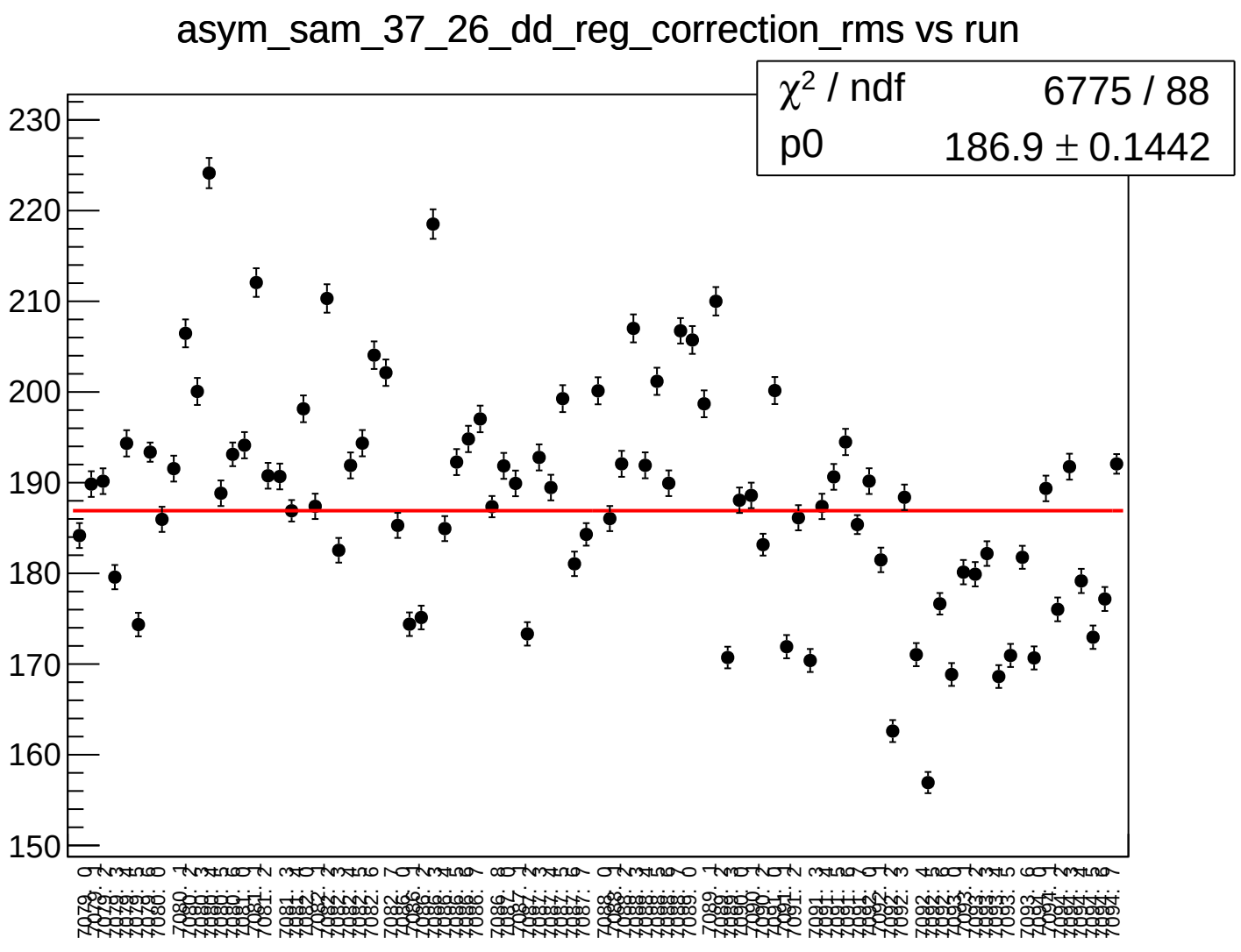

reg_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 99.52 / 88
p0 6.292 ± 44.92
pull
Entries 89
Mean −118.7
Std Dev 0

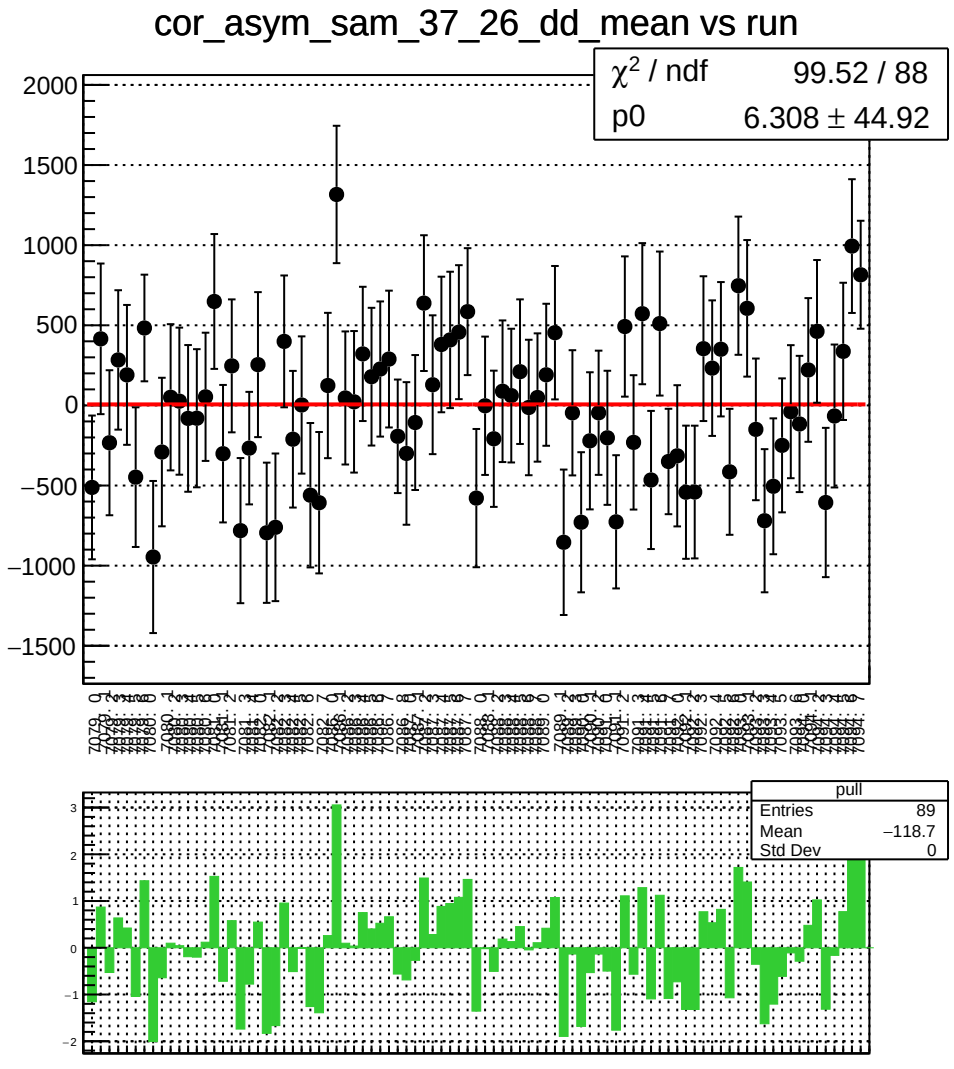

pull1D
Entries 89
Mean −0.01391
Std Dev 1.057

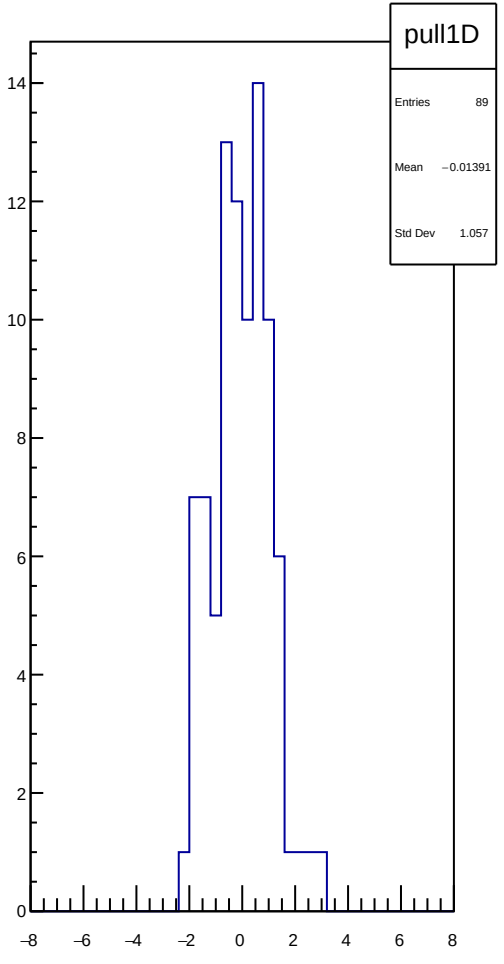

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1889 / 88
p0 41.23 ± 0.03177
46
45
44
43
42
41
40
39

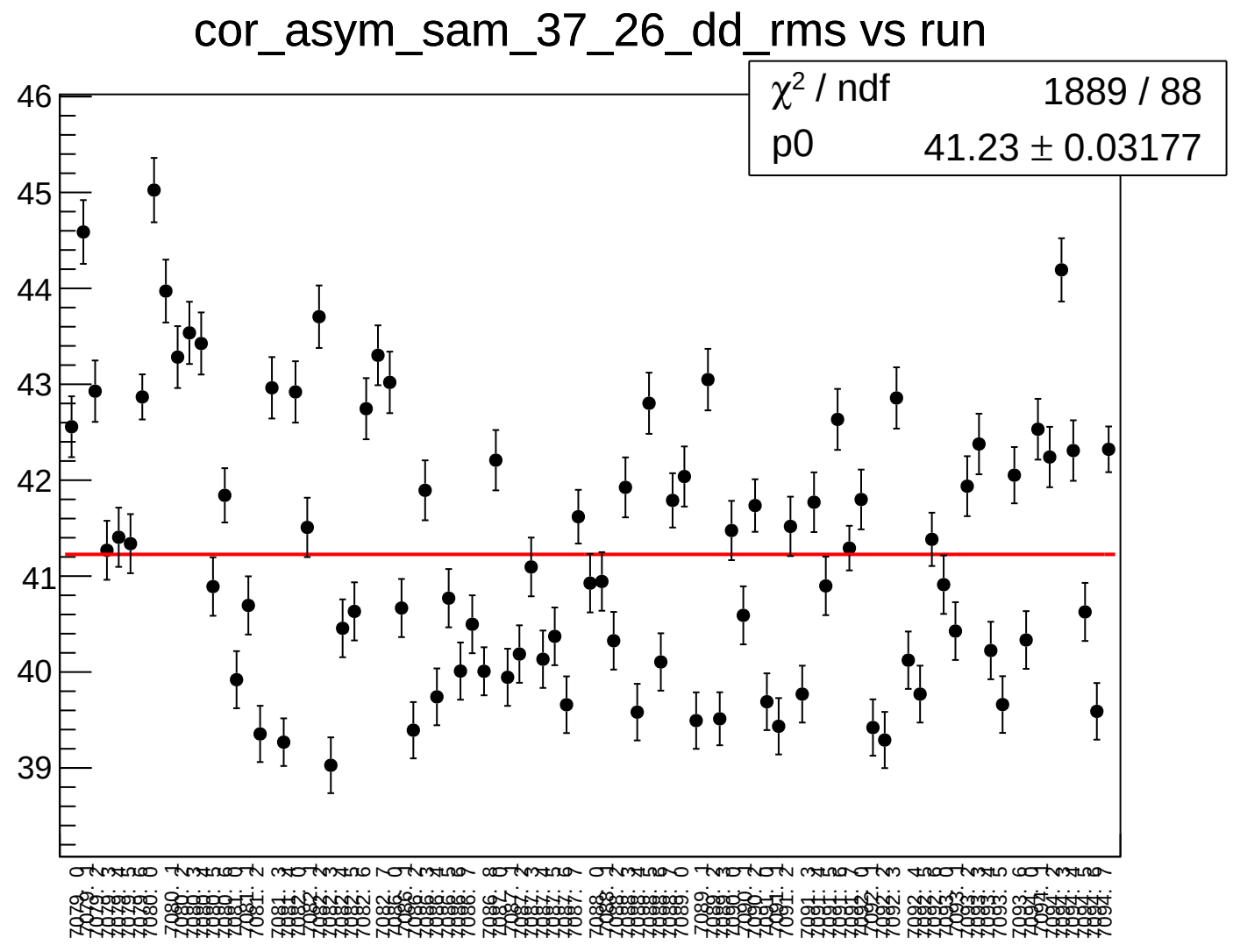

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 75.34 / 88
p0 31.37 ± 204
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −189.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

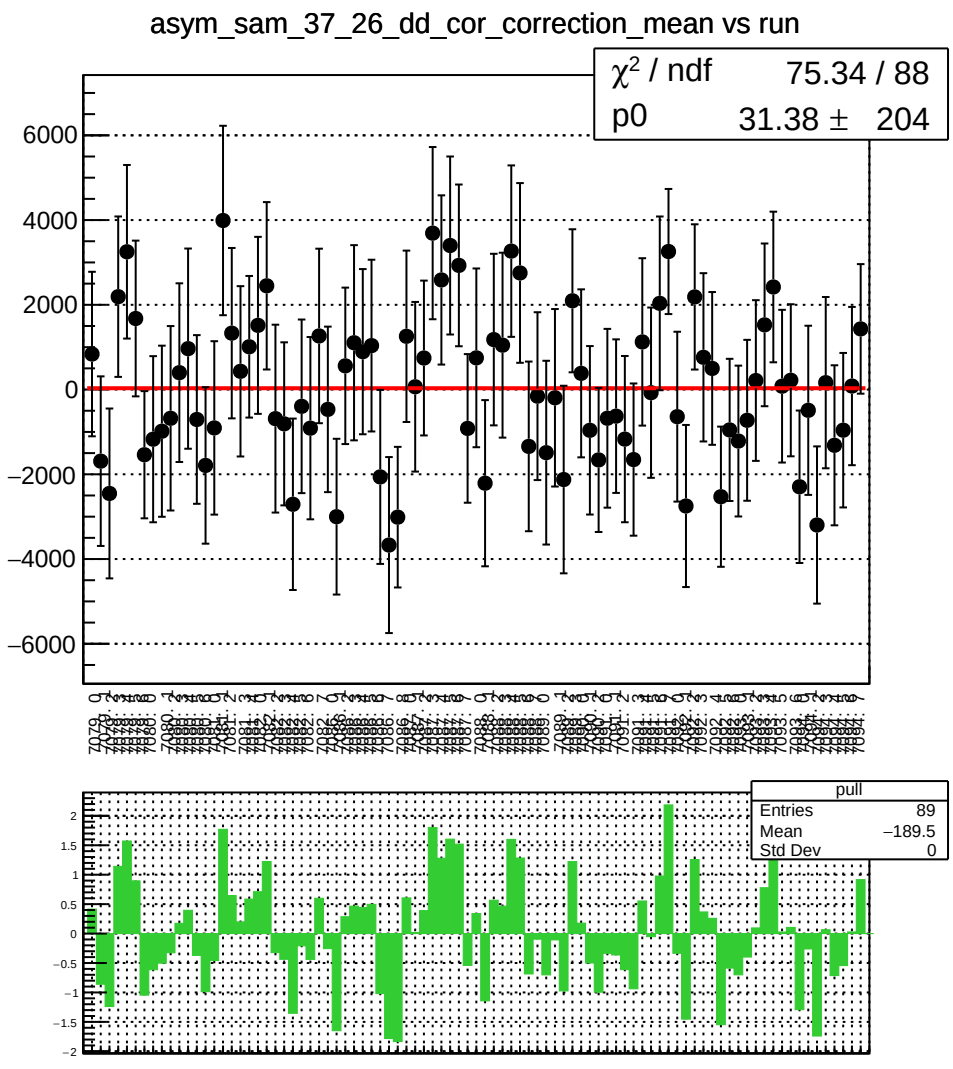

pull1D
Entries 89
Mean 0.005964
Std Dev 0.92
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

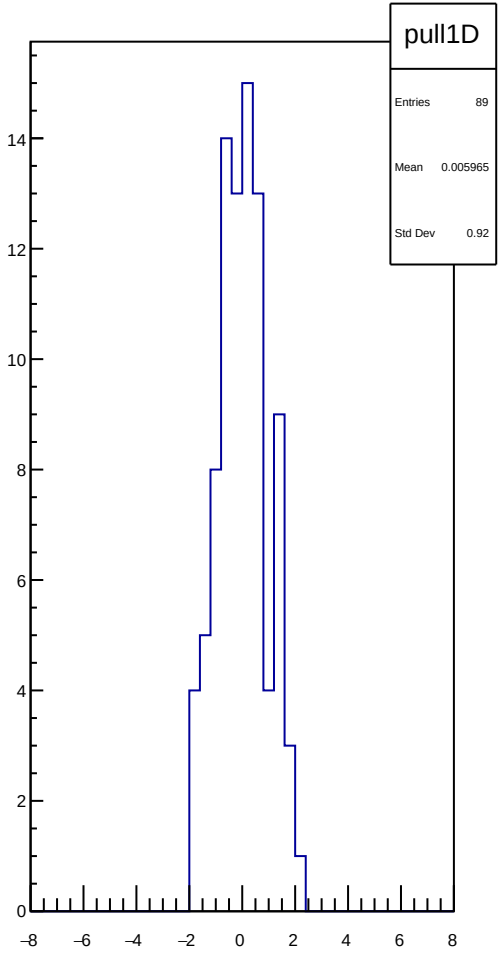

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 6775 / 88
p0 186.9 ± 0.1442
230
220
210
200
190
180
170
160
150

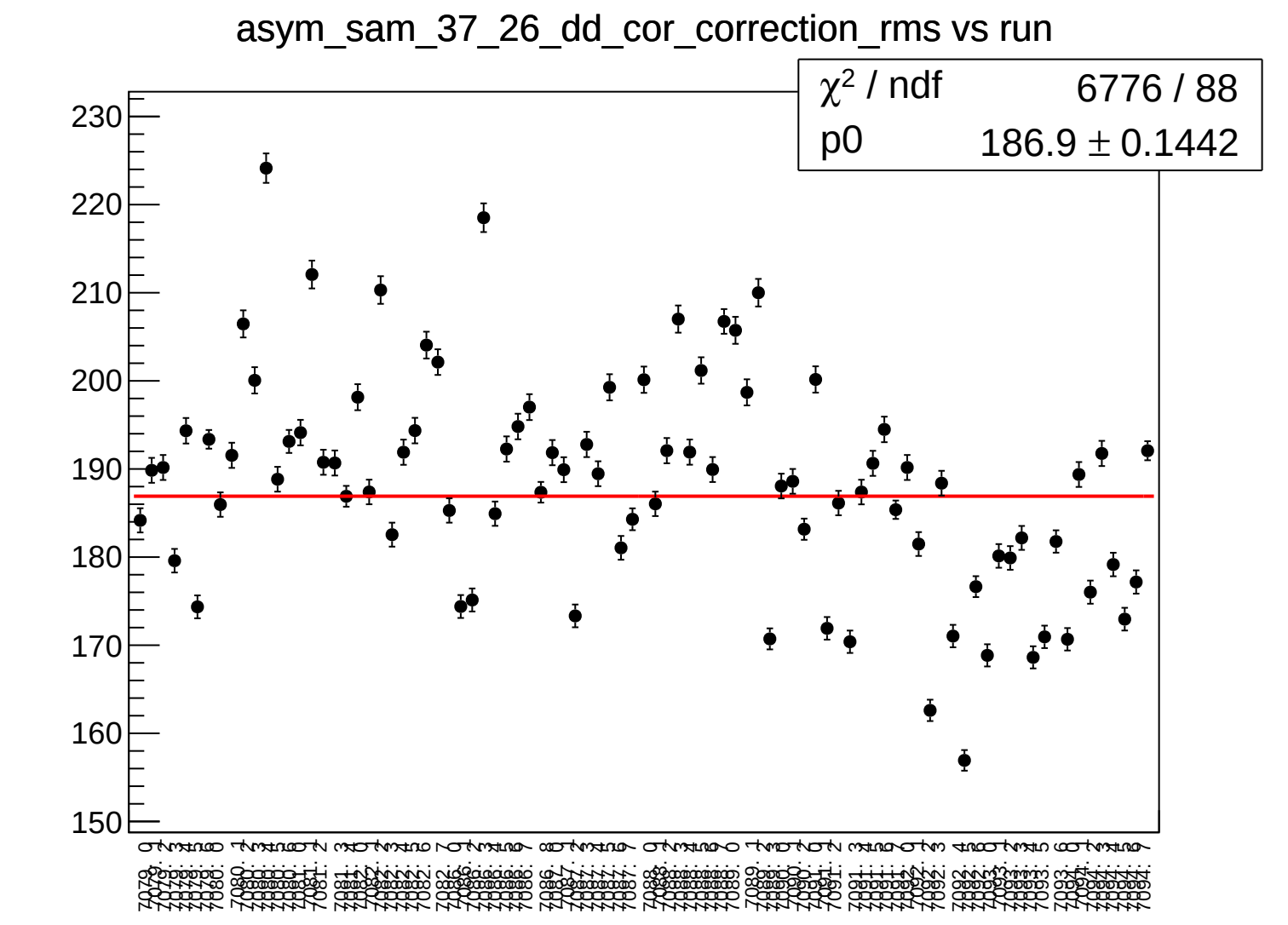

cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 99.52 / 88
p0 6.308 ± 44.92
pull
Entries 89
Mean −118.7
Std Dev 0

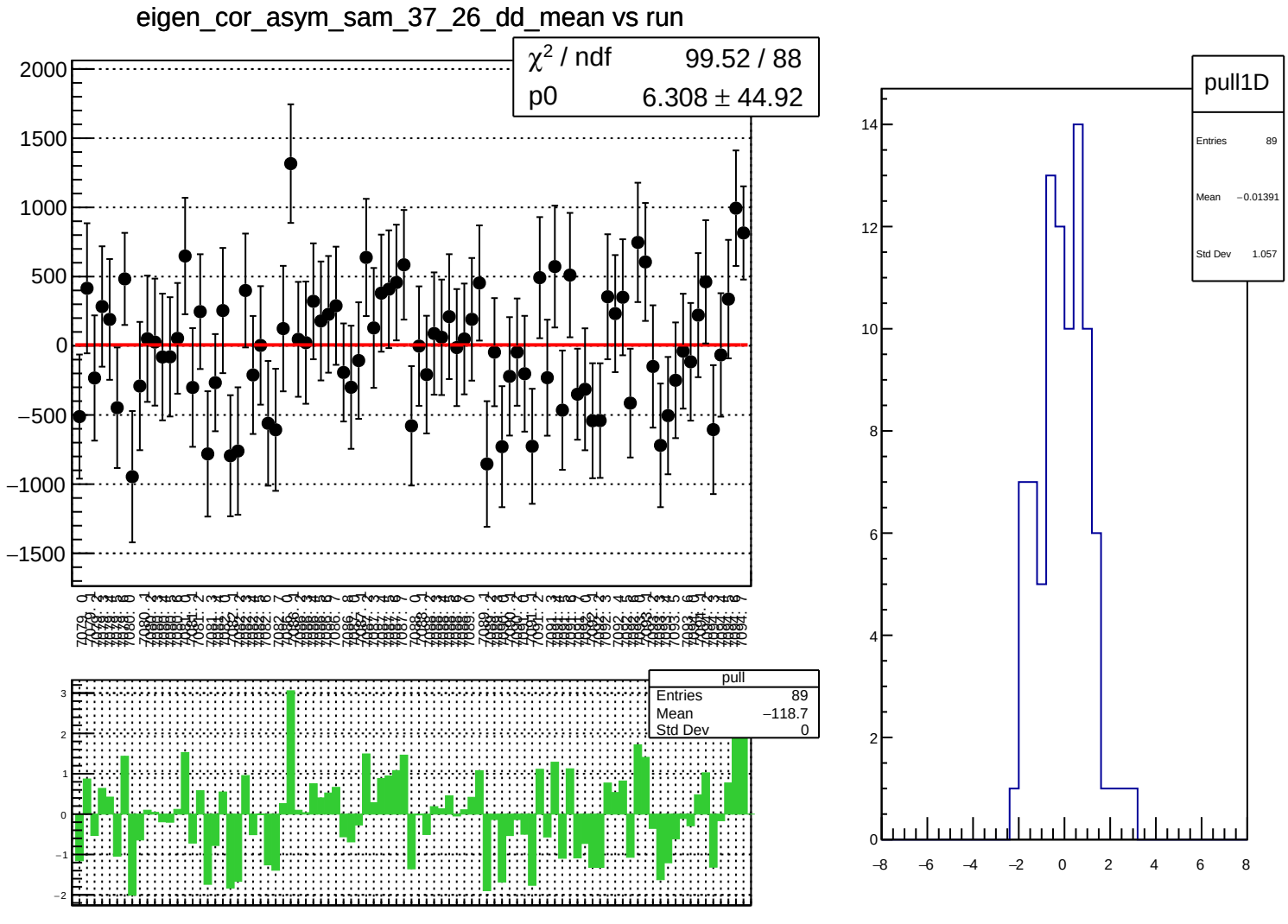

pull1D
Entries 89
Mean −0.01391
Std Dev 1.057

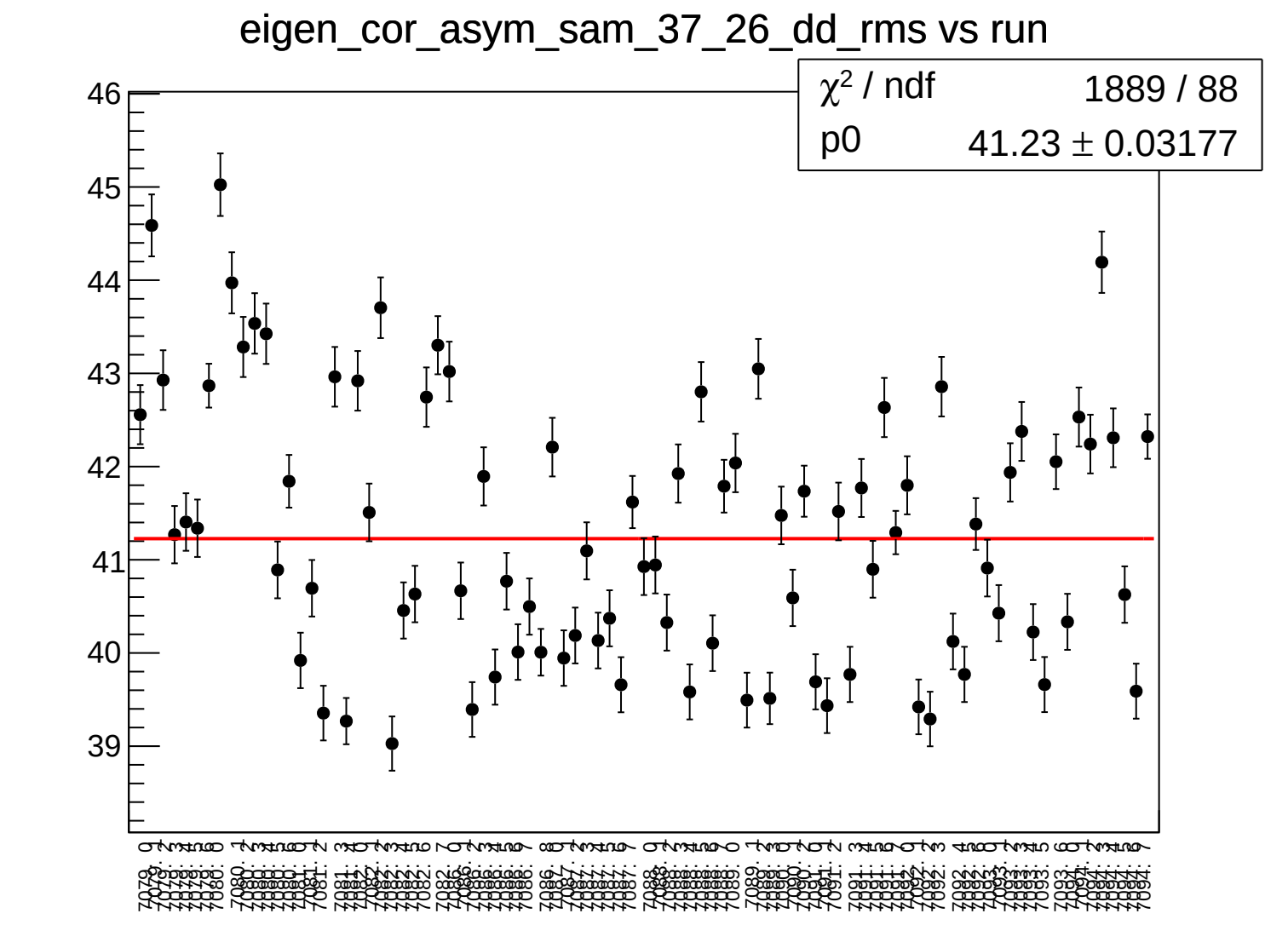

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1889 / 88
p0 41.23 ± 0.03177
46
45
44
43
42
41
40
39

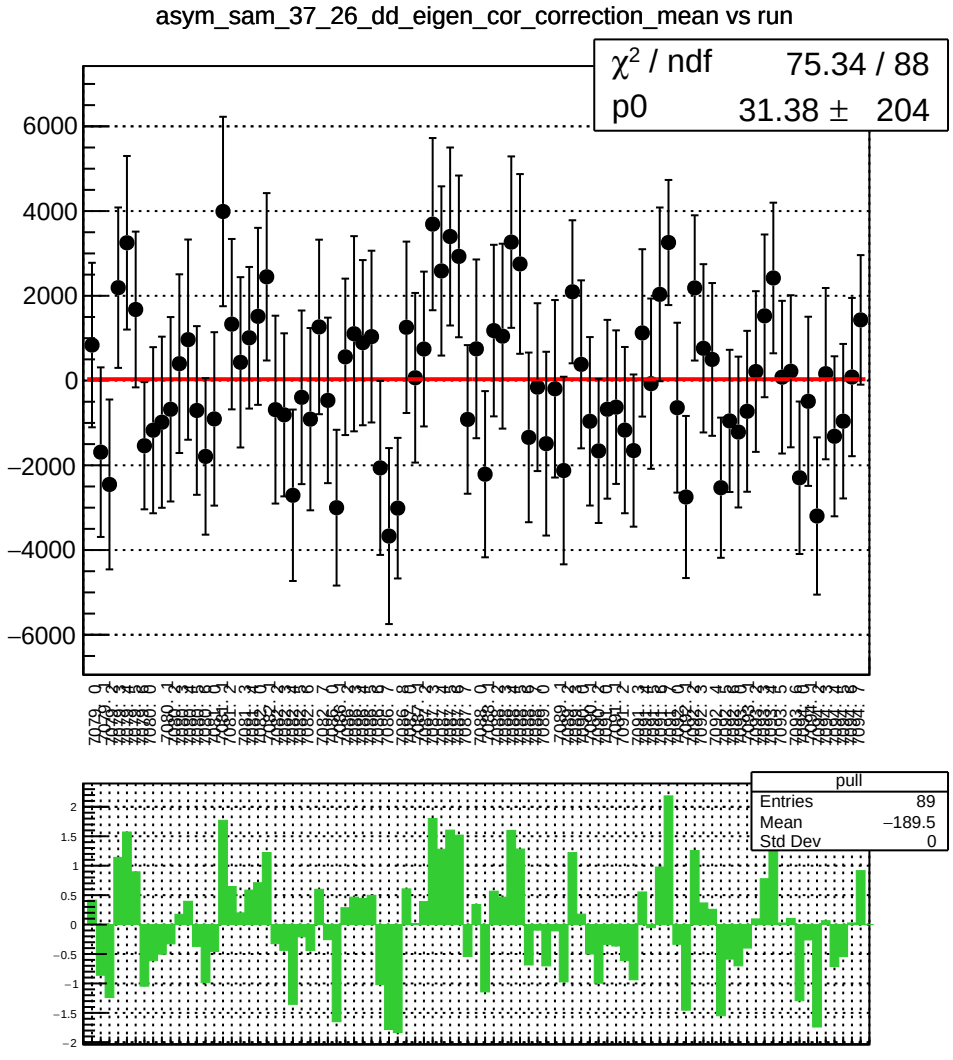

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 75.34 / 88
p0 31.38 ± 204
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −189.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

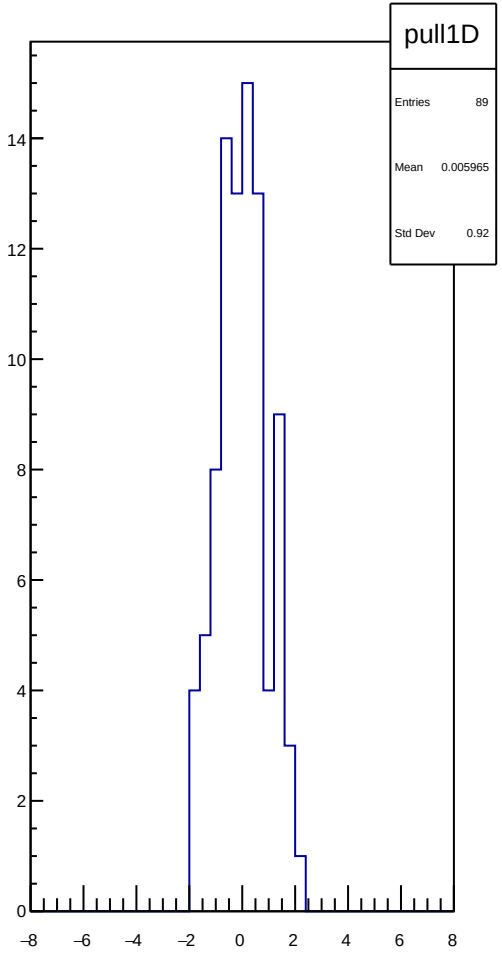

pull1D
Entries 89
Mean 0.005965
Std Dev 0.92
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

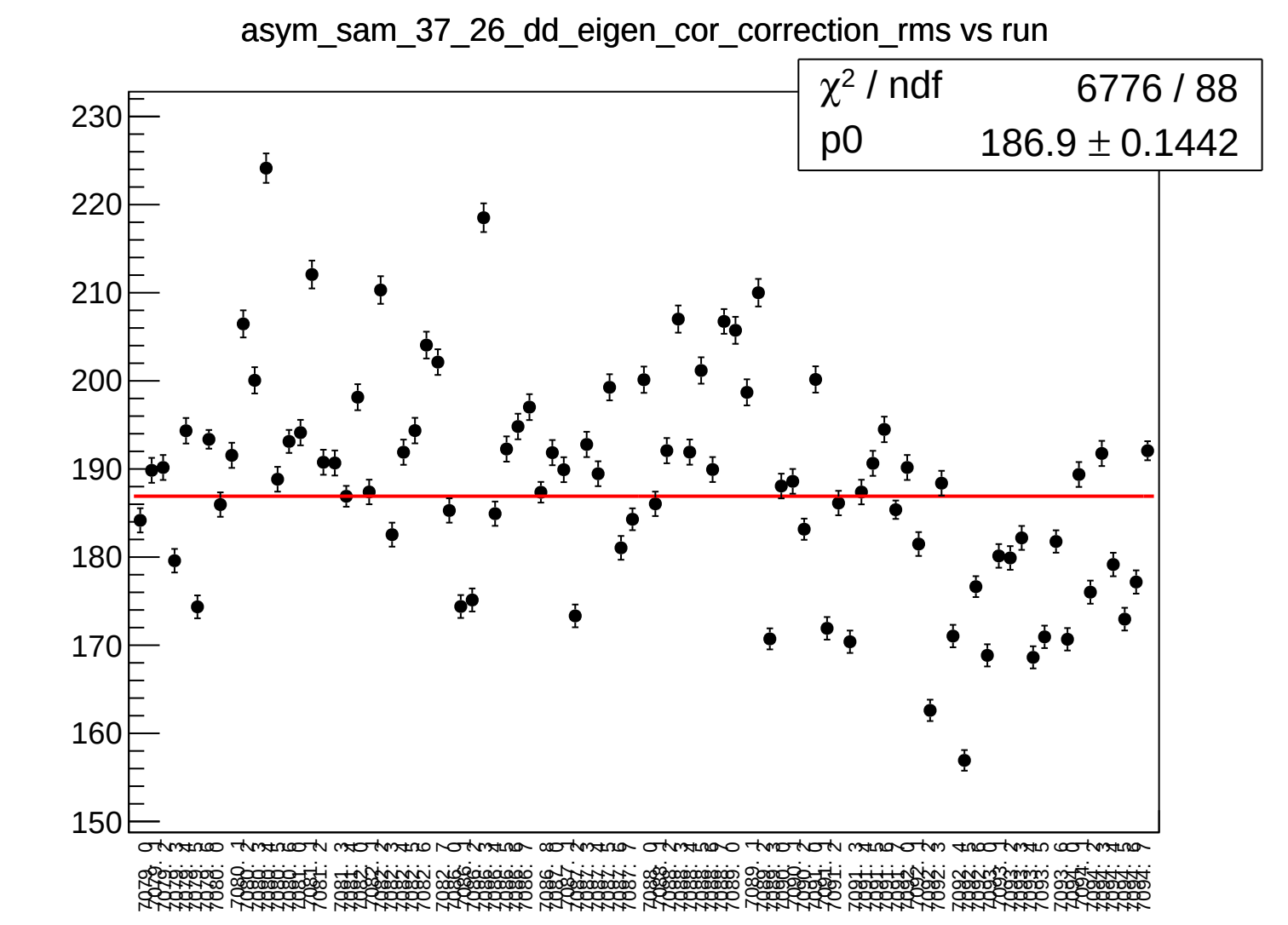

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 6776 / 88
p0 186.9 ± 0.1442
230
220
210
200
190
180
170
160
150

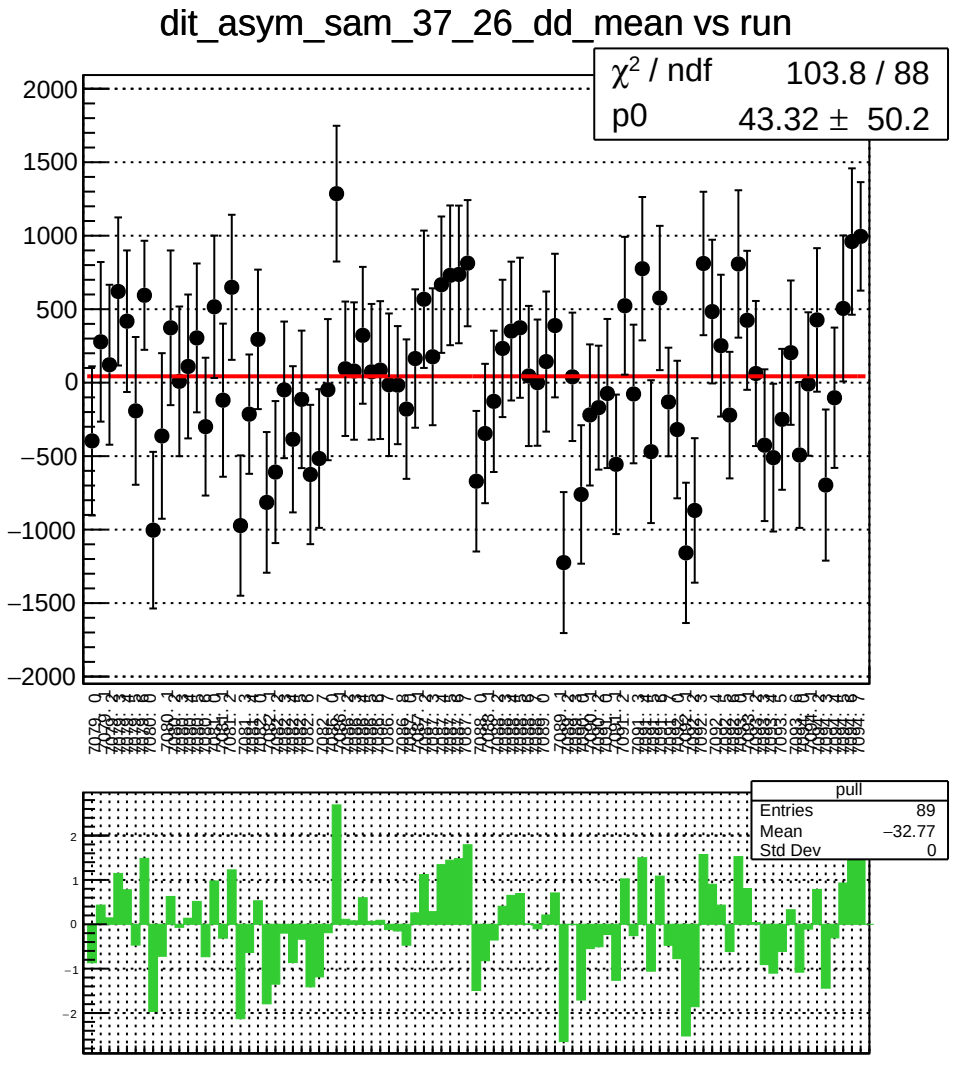

eigen_cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 99.52 / 88
p0 6.308 ± 44.92
pull
Entries 89
Mean −118.7
Std Dev 0
pull1D
Entries 89
Mean −0.01391
Std Dev 1.057

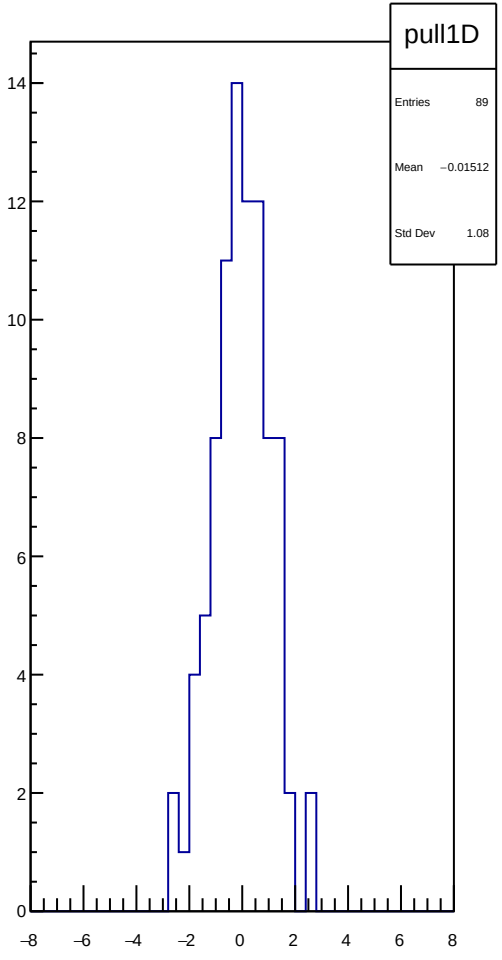

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1889 / 88
p0 41.23 ± 0.03177
46
45
44
43
42
41
40
39

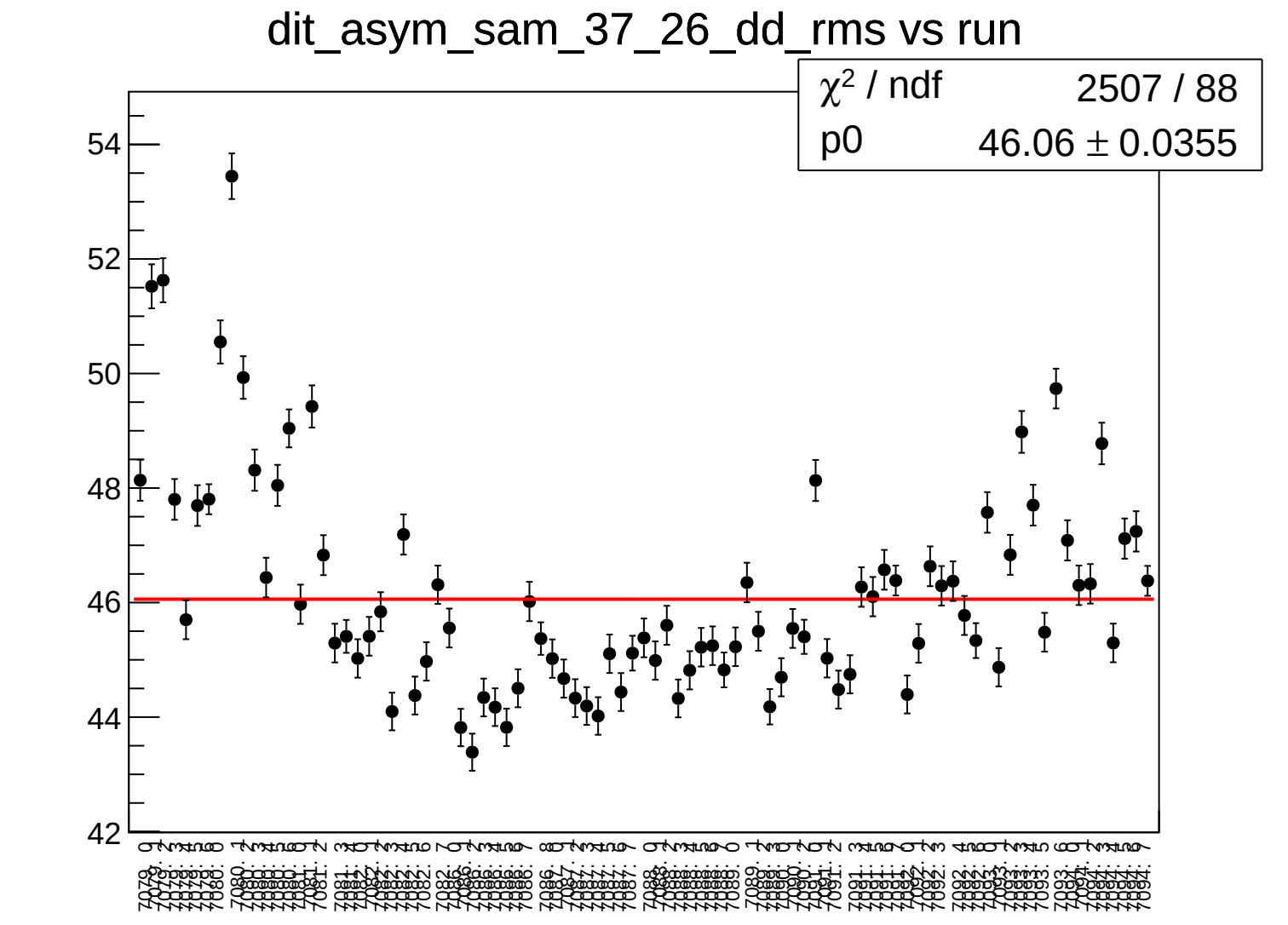

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.34 / 88
p0 31.38 ± 204
pull
Entries 89
Mean −189.5
Std Dev 0

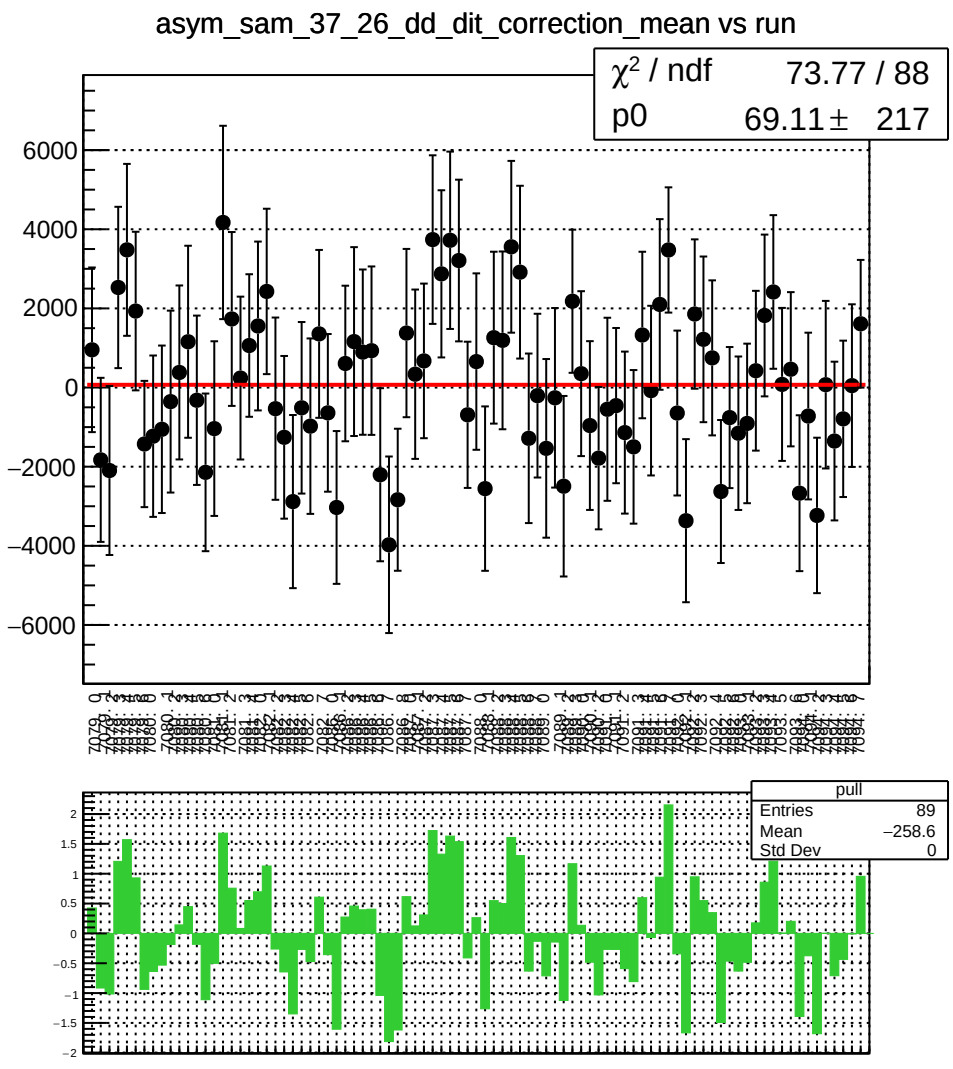

pull1D
Entries 89
Mean 0.005965
Std Dev 0.92

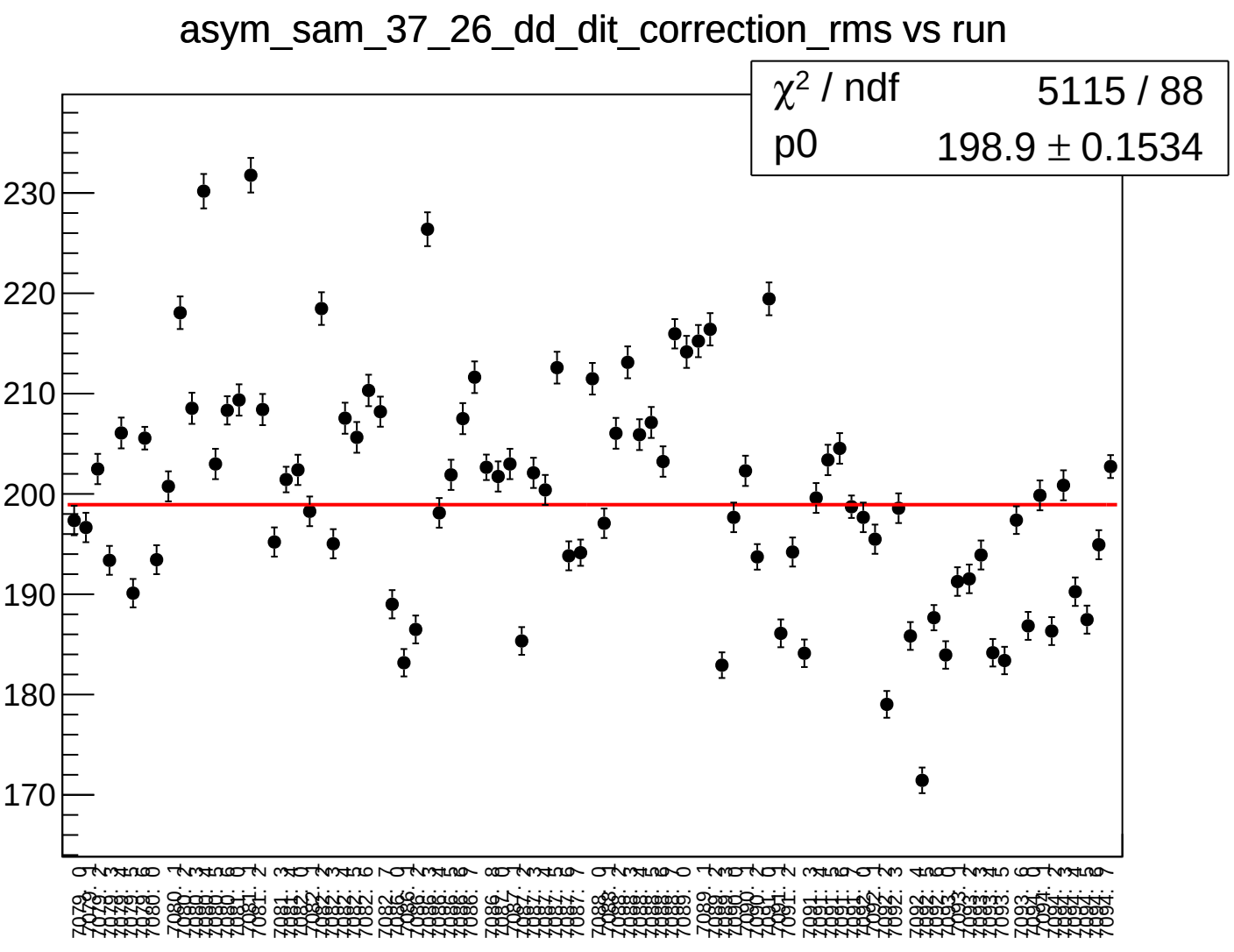

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6776 / 88
p0 186.9 ± 0.1442
230
220
210
200
190
180
170
160
150

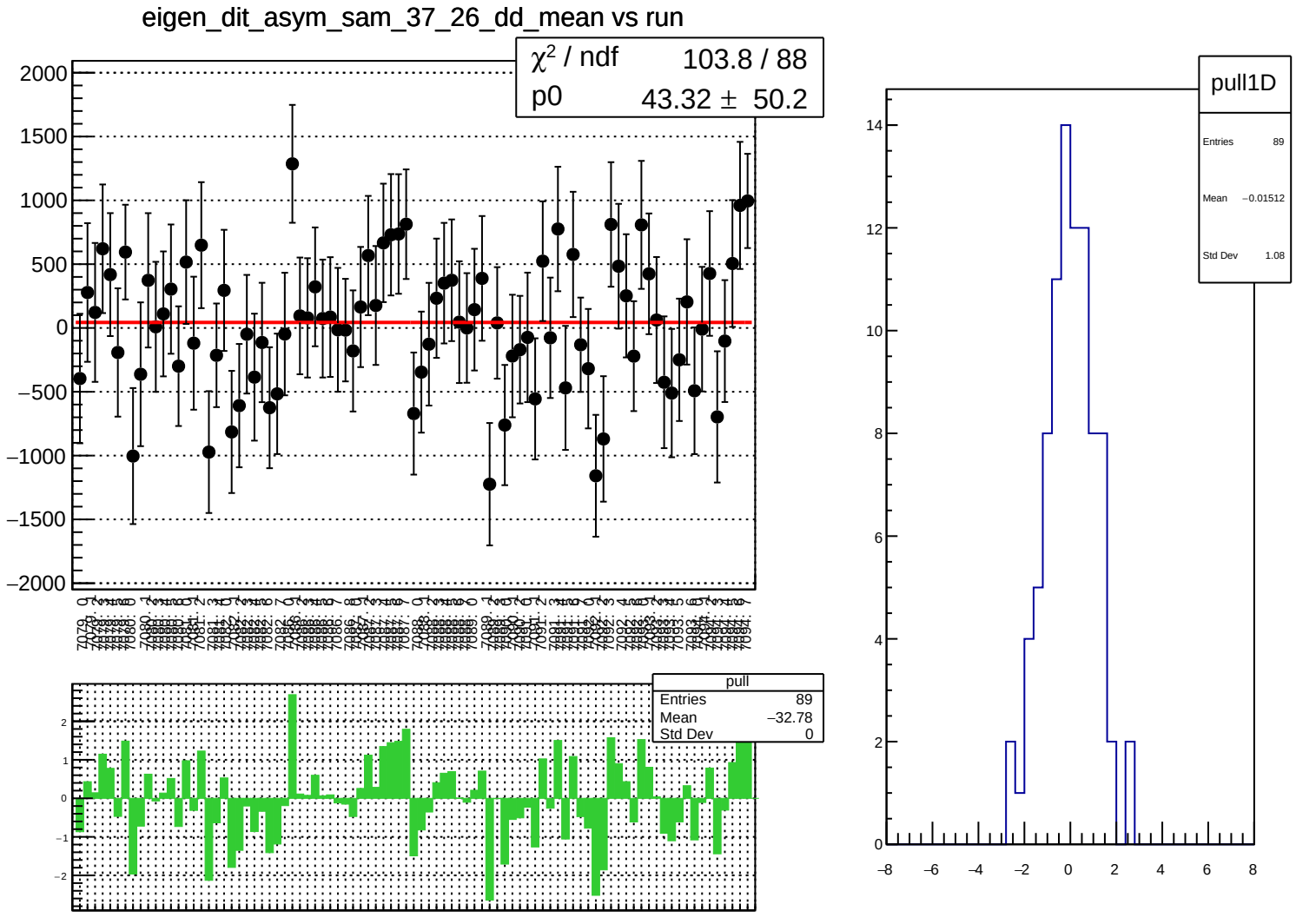

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 103.8 / 88
p0 43.32 ± 50.2
pull
Entries 89
Mean −32.77
Std Dev 0

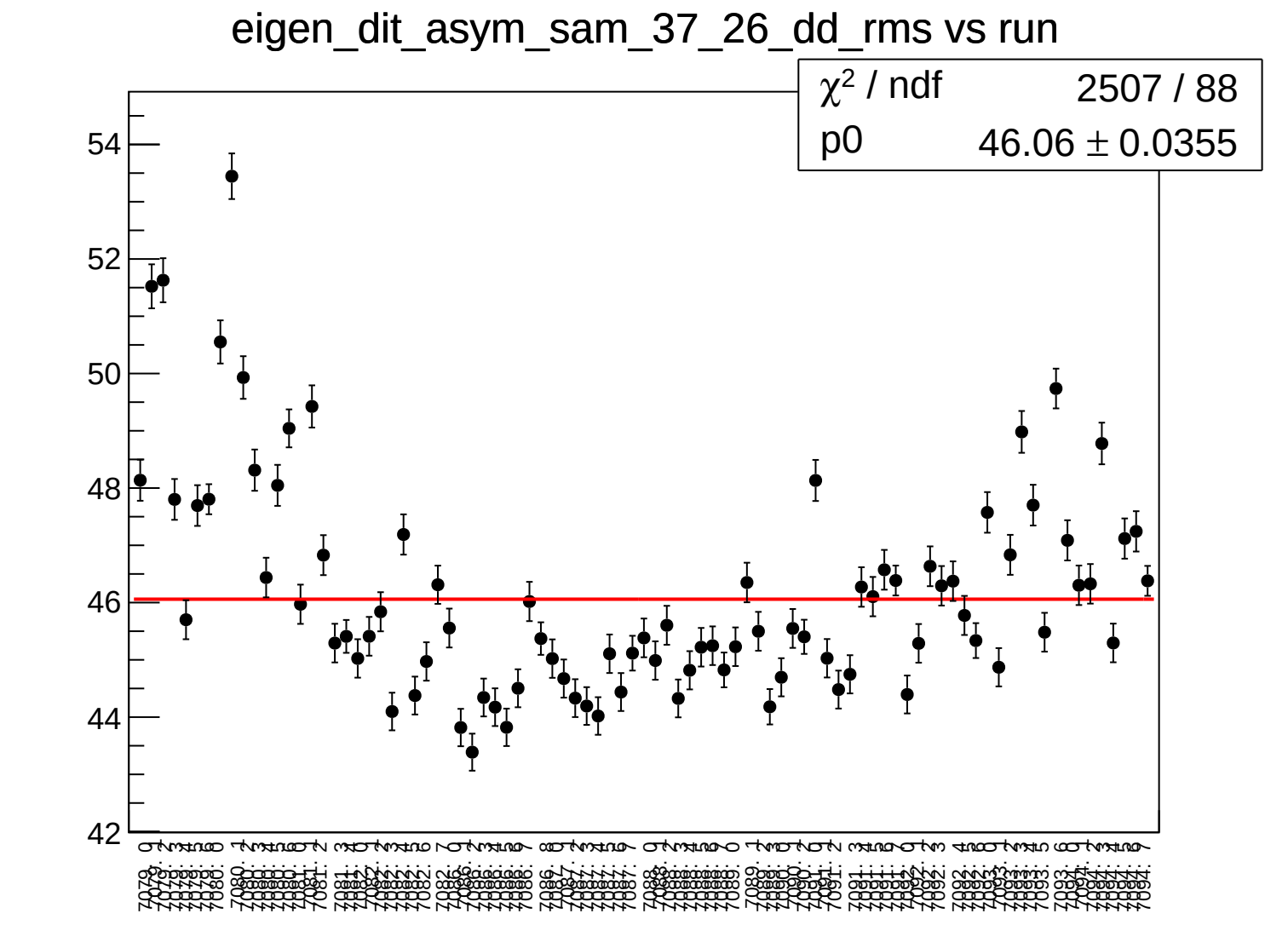

pull1D
Entries 89
Mean −0.01512
Std Dev 1.08

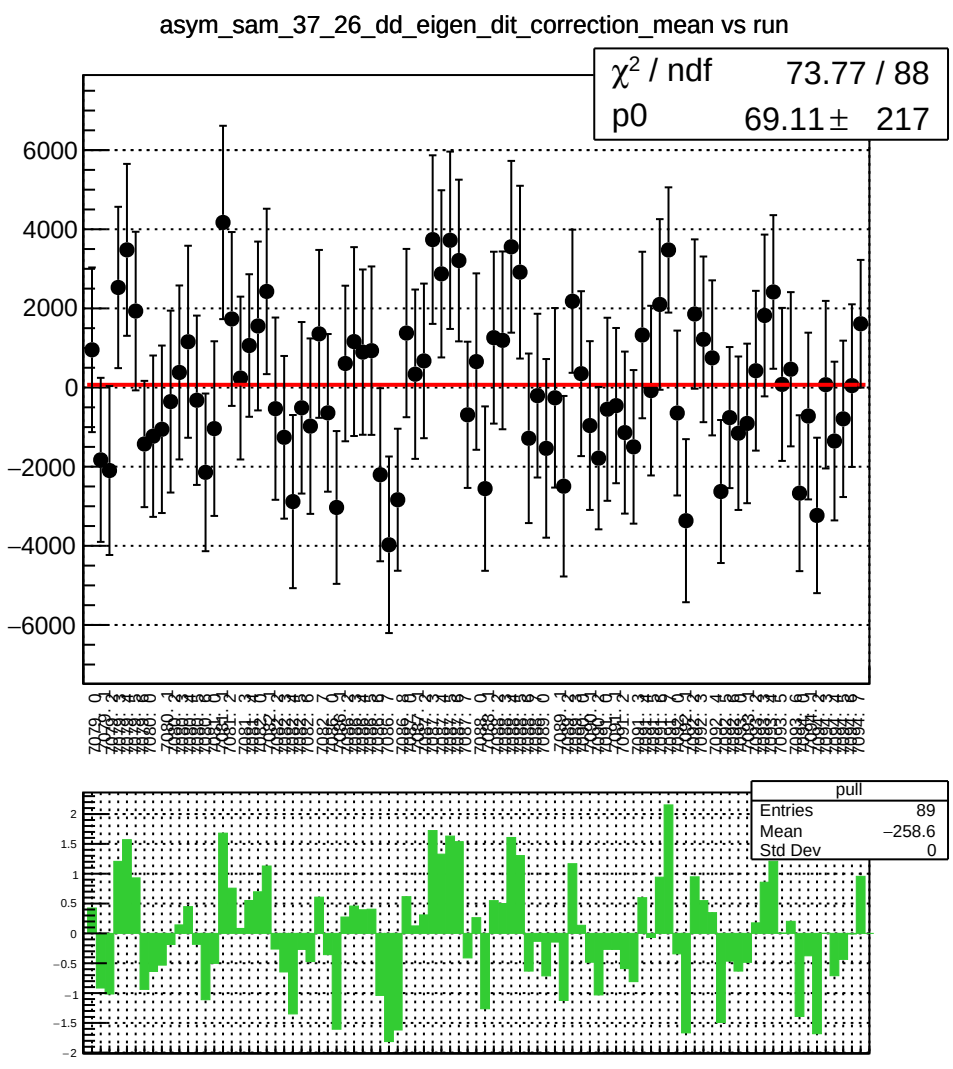

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2507 / 88
p0 46.06 ± 0.0355
54
52
50
48
46
44
42

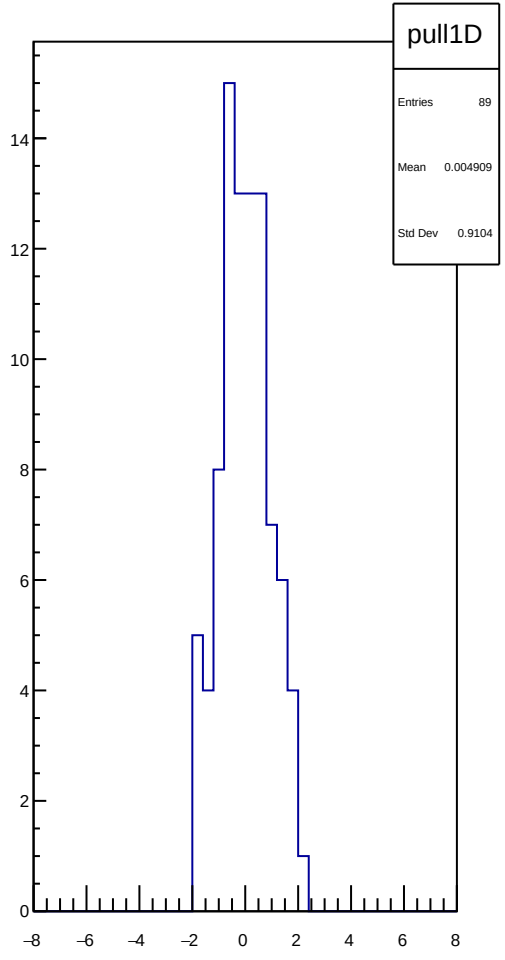

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 73.77 / 88
p0 69.11 ± 217
pull
Entries 89
Mean −258.6
Std Dev 0
pull1D
Entries 89
Mean 0.004909
Std Dev 0.9104

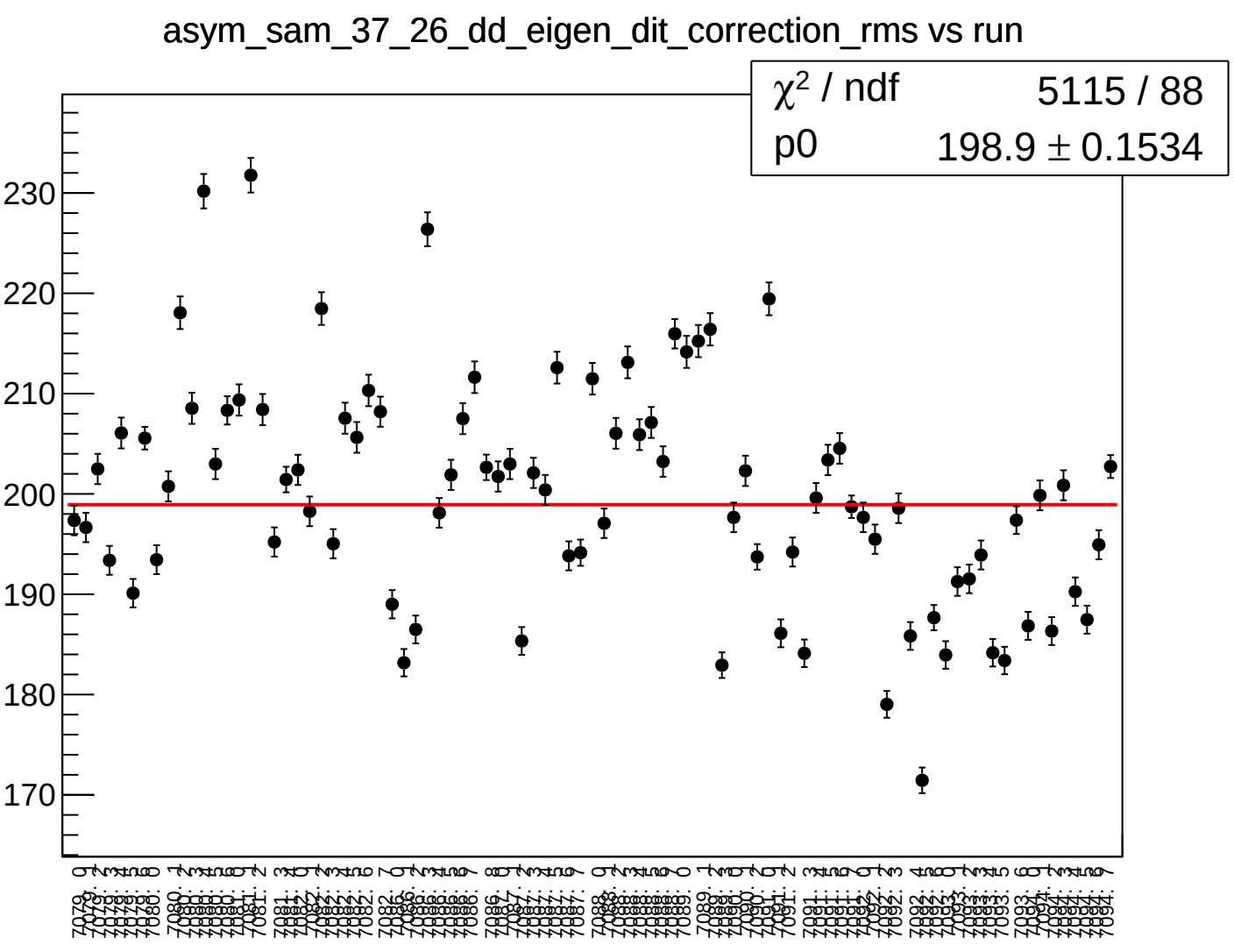

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 5115 / 88
p0 198.9 ± 0.1534
230
220
210
200
190
180
170

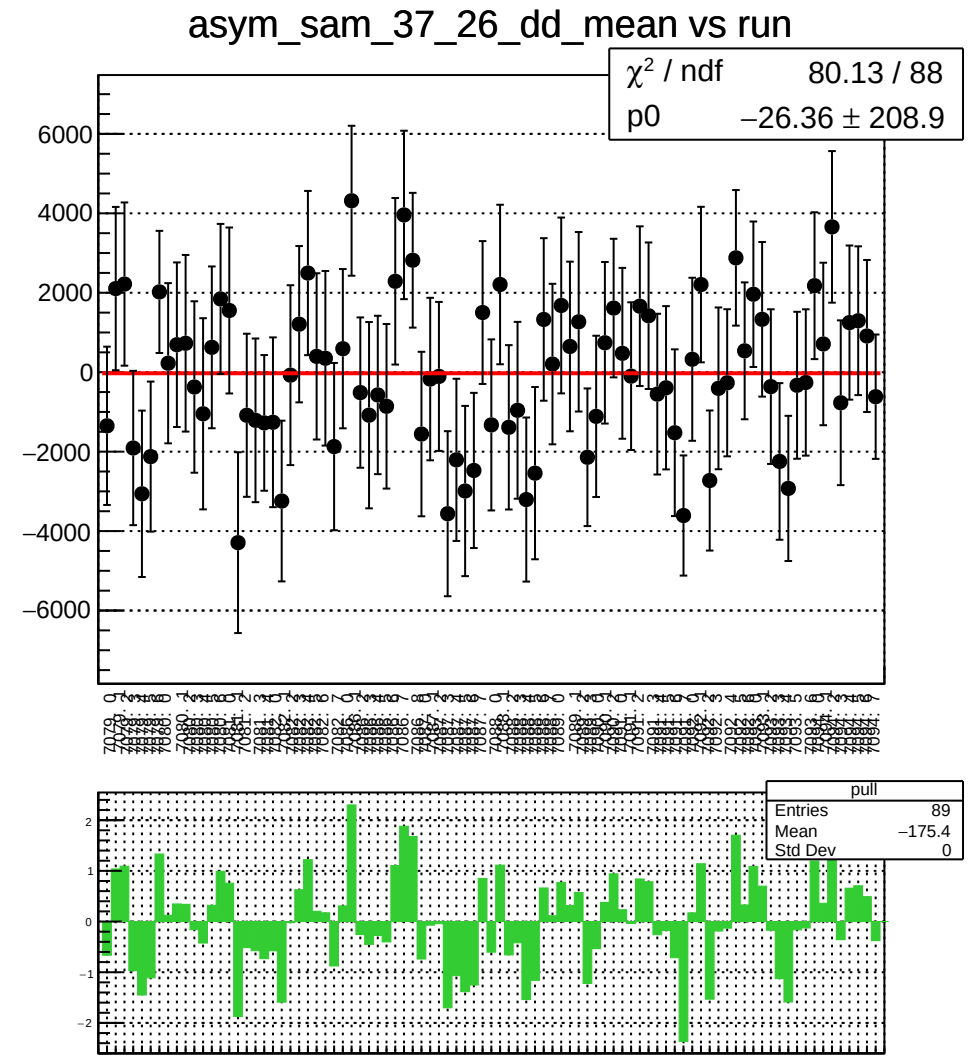

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 103.8 / 88
p0 43.32 ± 50.2
pull
Entries 89
Mean −32.78
Std Dev 0
pull1D
Entries 89
Mean −0.01512
Std Dev 1.08

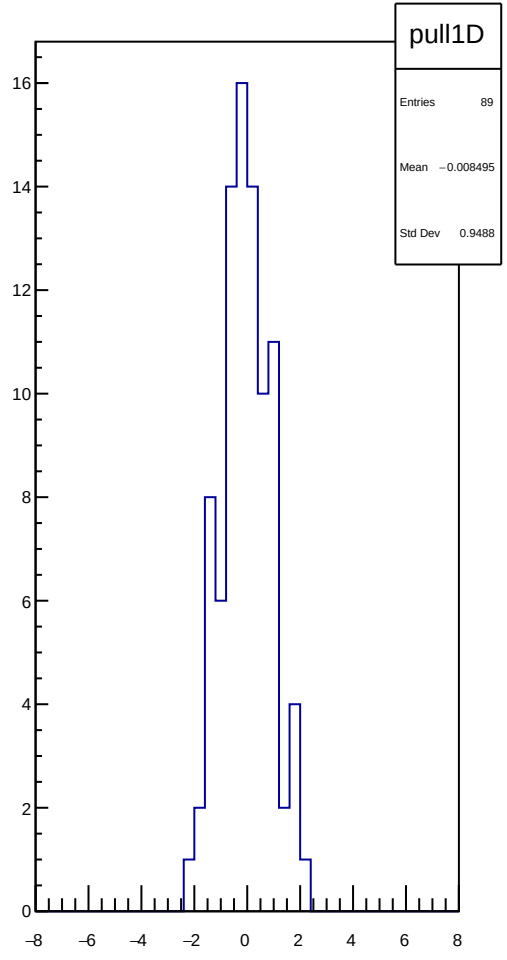

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2507 / 88
p0 46.06 ± 0.0355
54
52
50
48
46
44
42

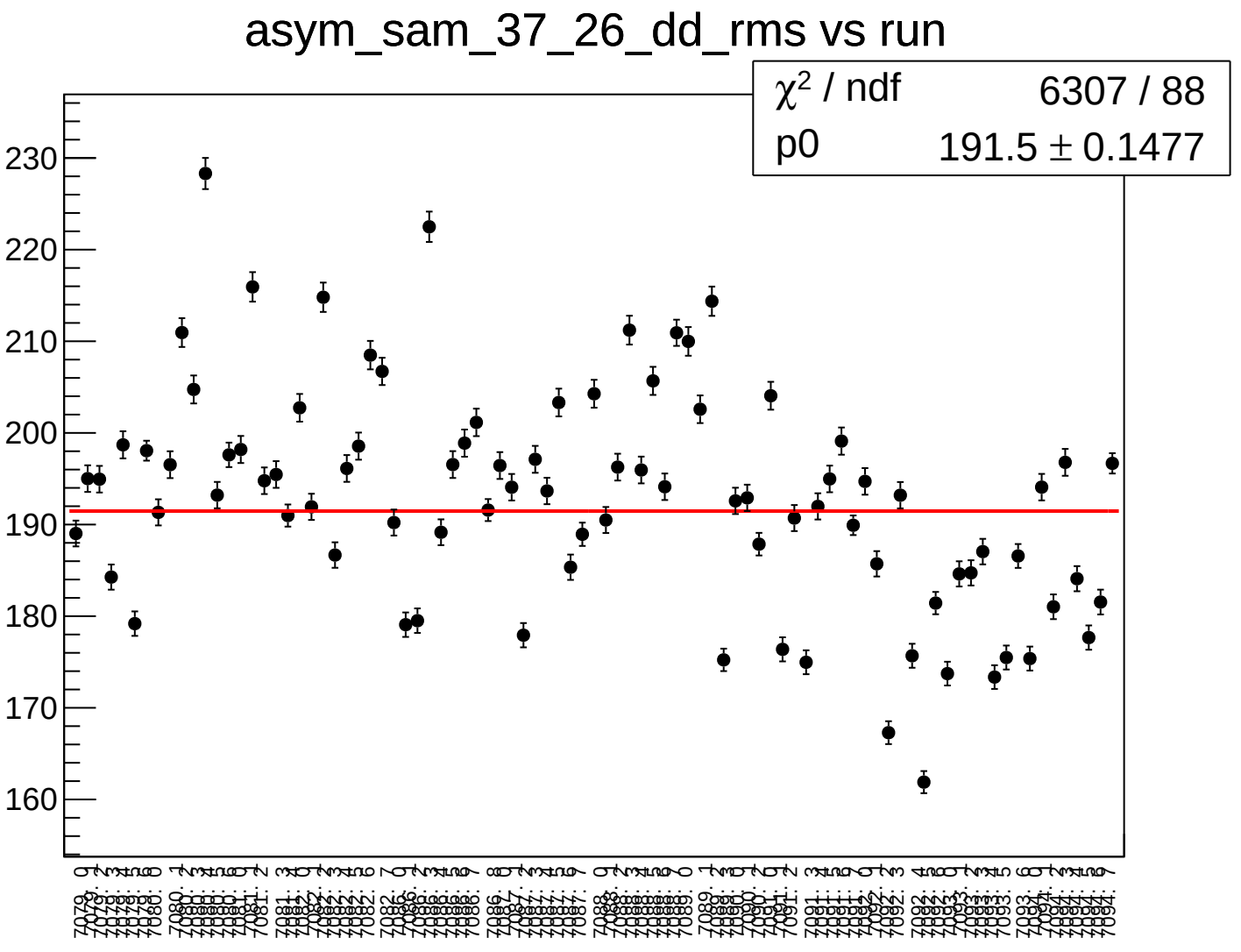

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.77 / 88
p0 69.11 ± 217
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −258.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

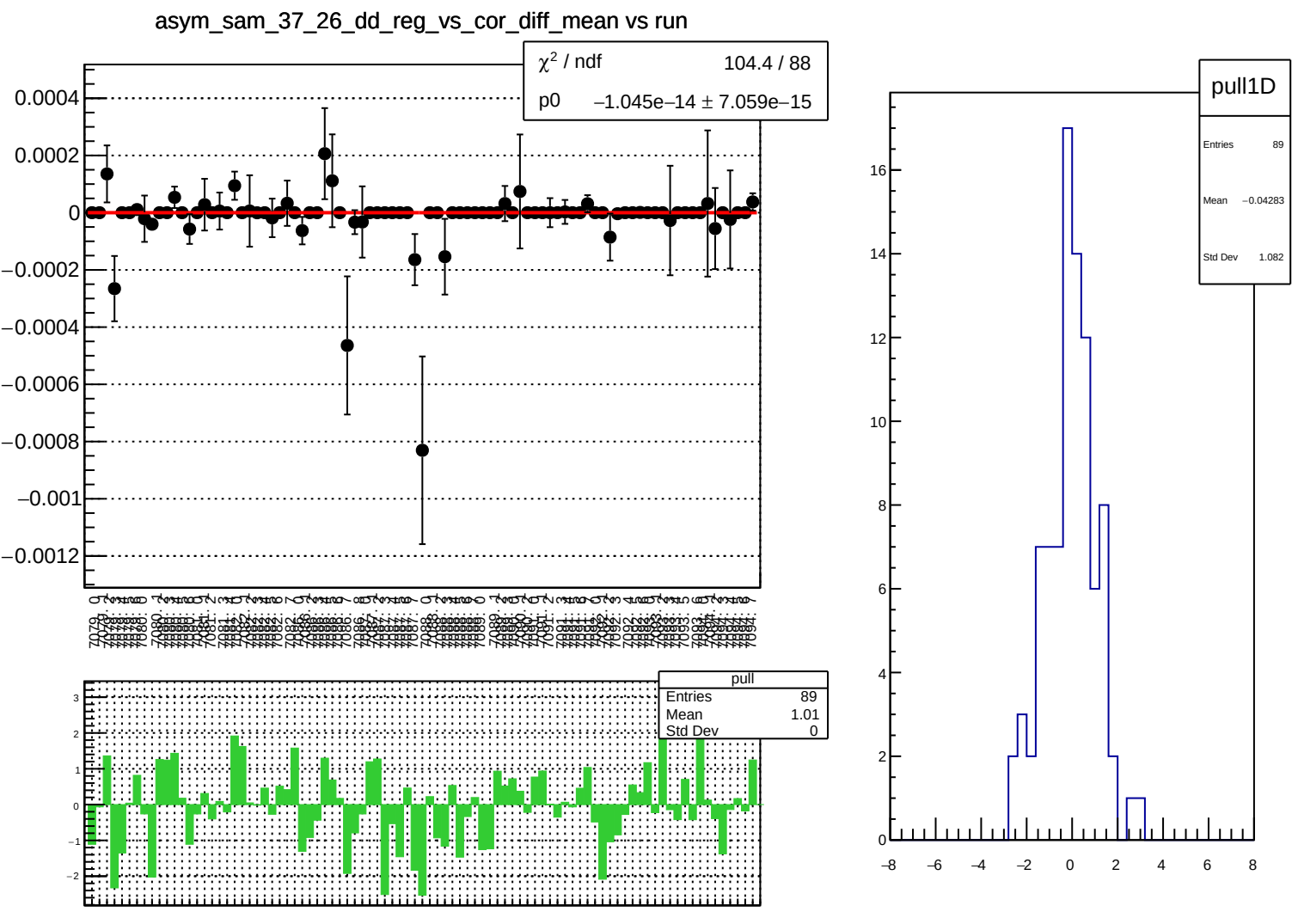

pull1D
Entries 89
Mean 0.004909
Std Dev 0.9104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

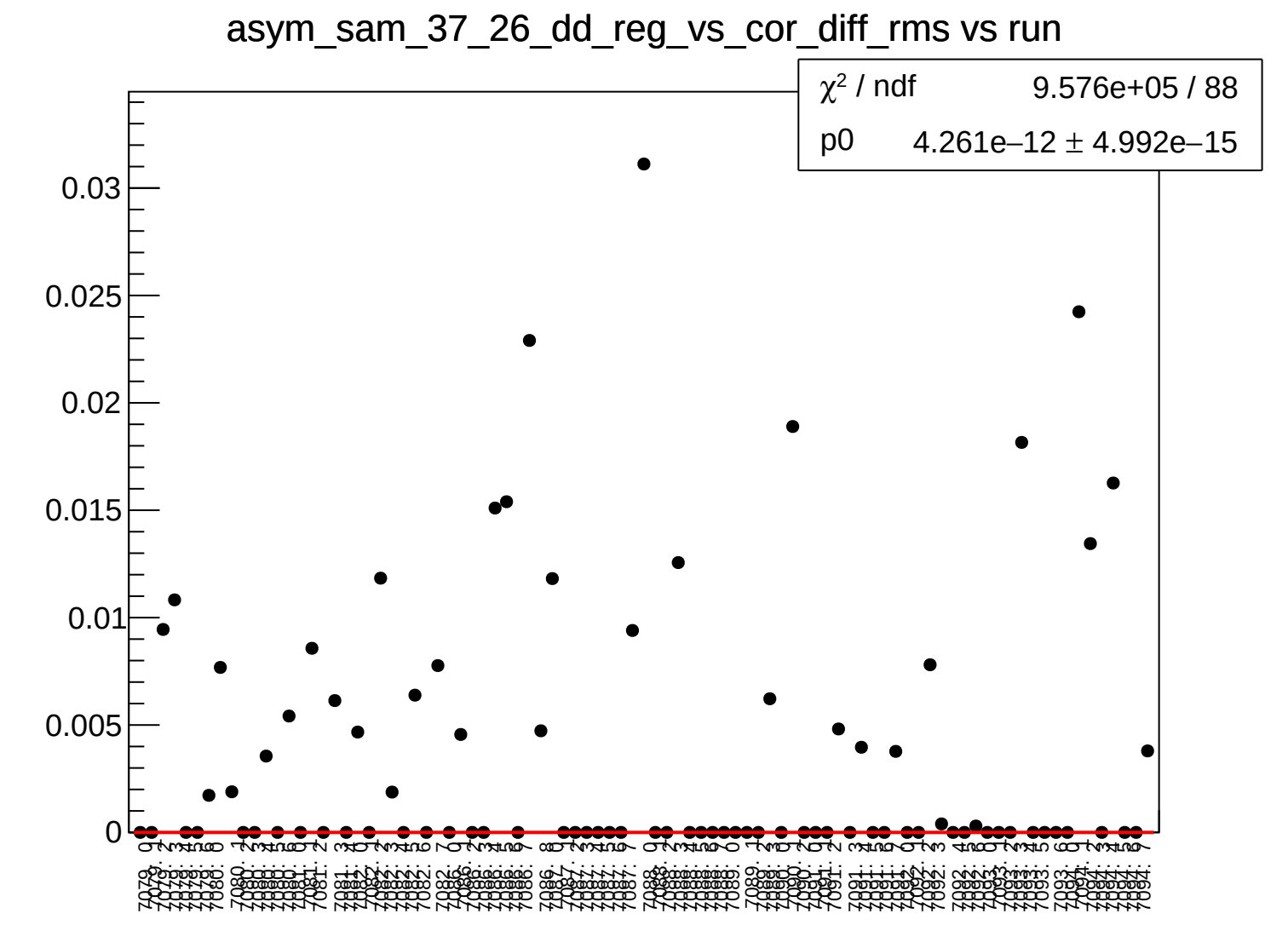

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5115 / 88
p0 198.9 ± 0.1534
230
220
210
200
190
180
170

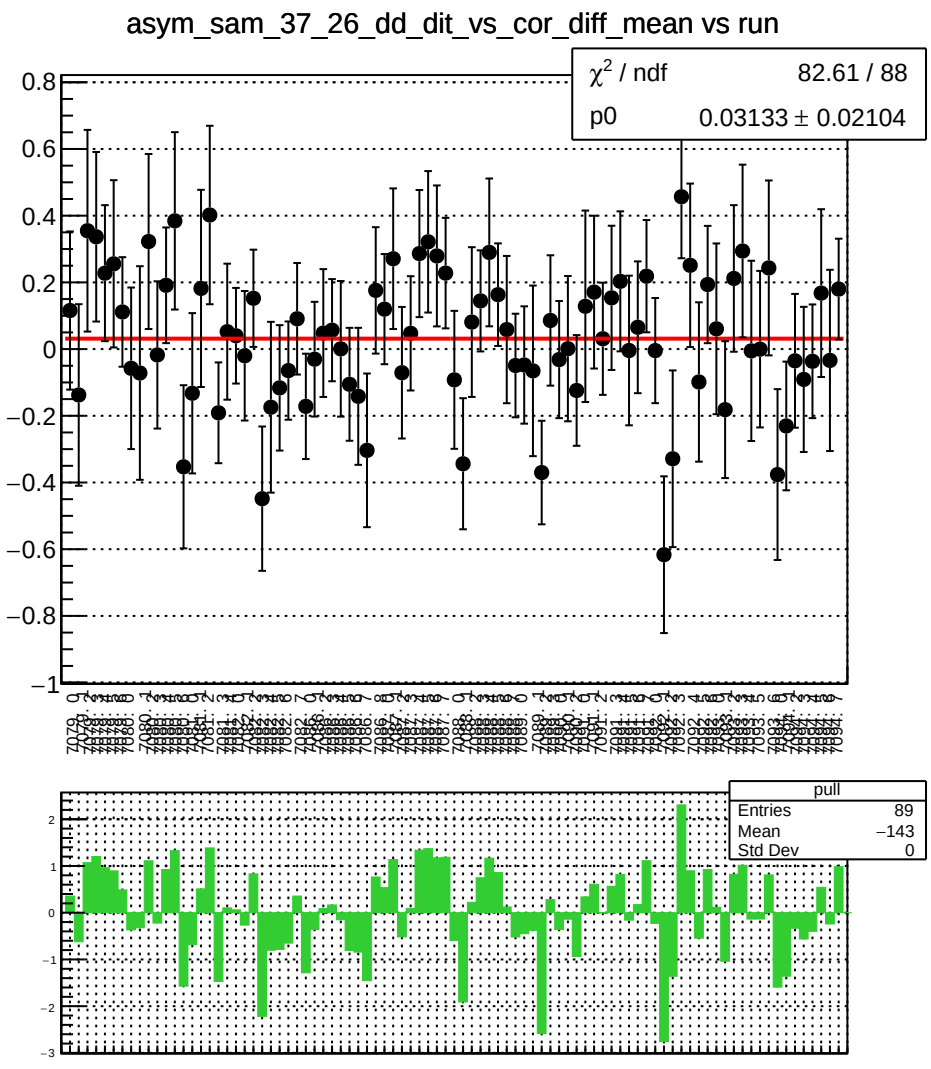

asym_sam_37_26_dd_mean vs run
χ² / ndf 80.13 / 88
p0 −26.36 ± 208.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −175.4
Std Dev 0
2
1
0
−1
−2

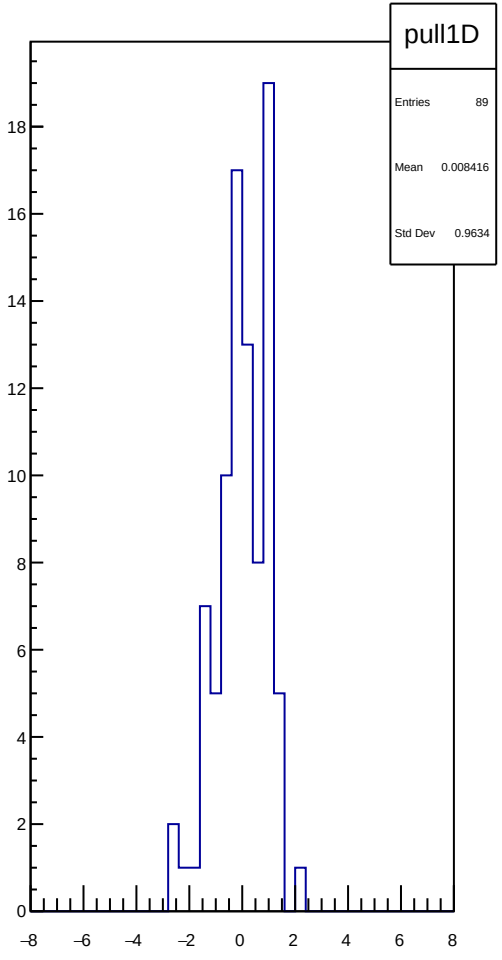

pull1D
Entries 89
Mean −0.008495
Std Dev 0.9488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

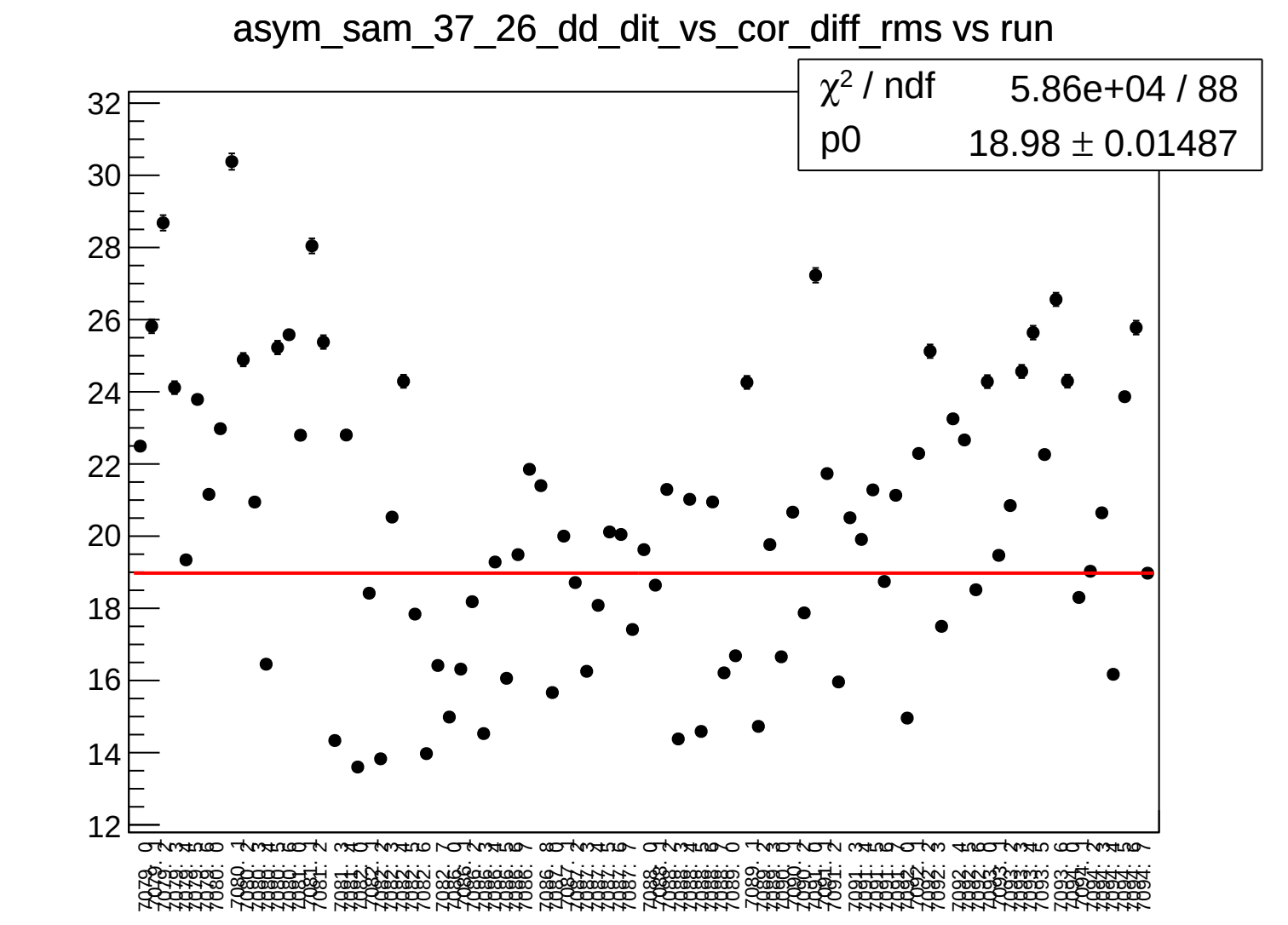

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 6307 / 88
p0 191.5 ± 0.1477
230
220
210
200
190
180
170
160

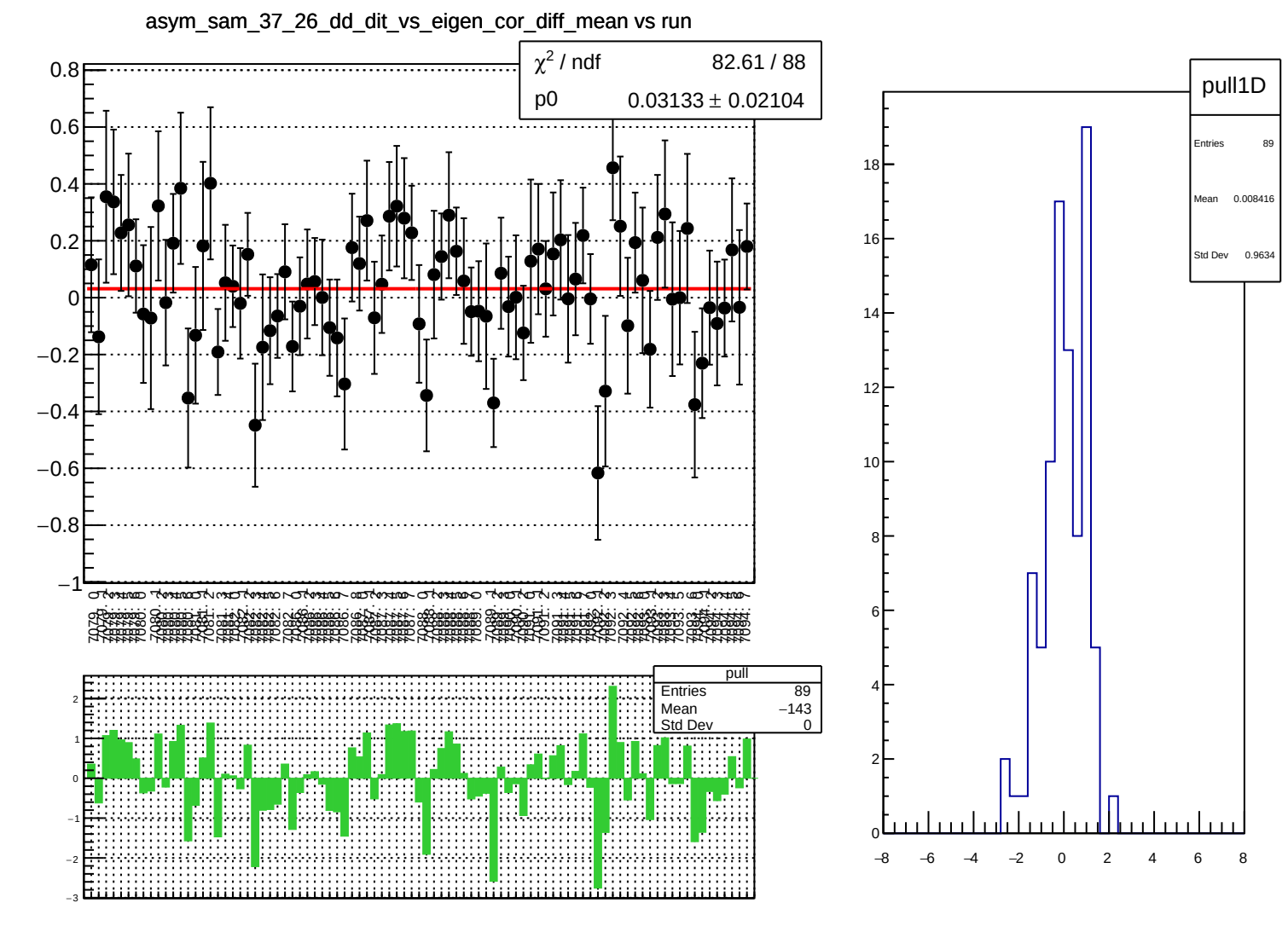

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104.4 / 88
p0 −1.045e−14 ± 7.059e−15
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 89
Mean 1.01
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.04283
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

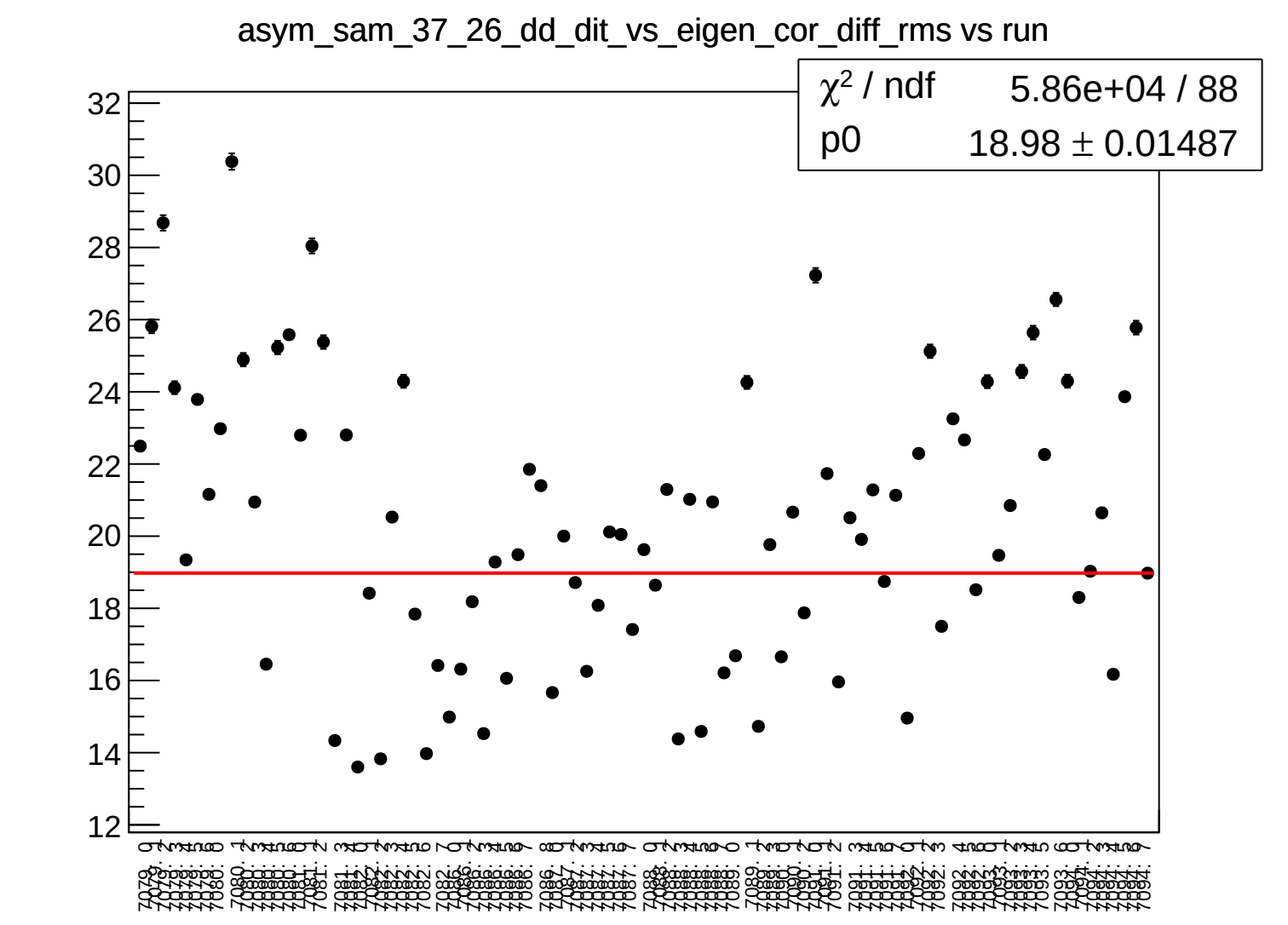

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.576e+05 / 88
p0 4.261e−12 ± 4.992e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

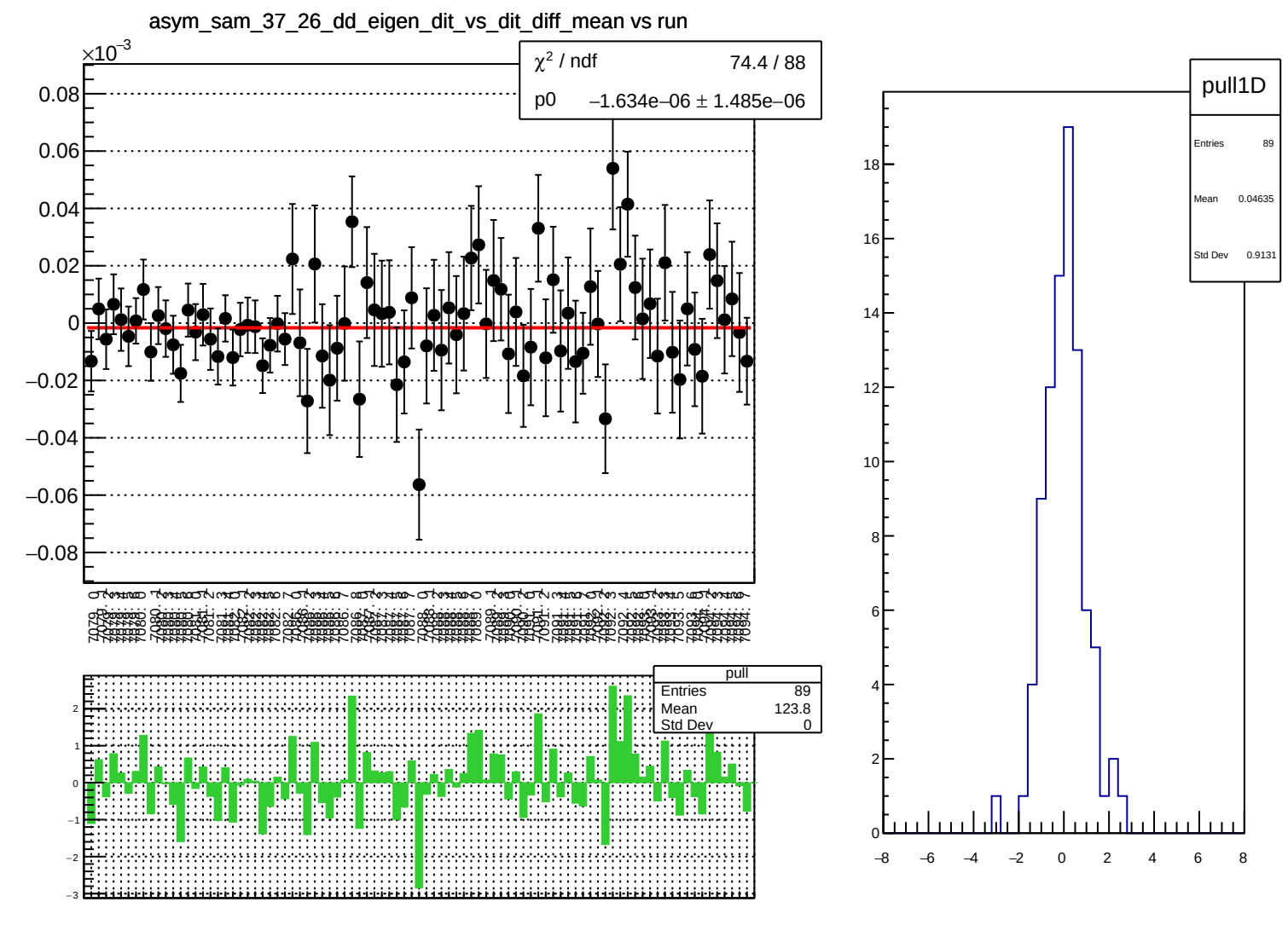

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.61 / 88
p0 0.03133 ± 0.02104
pull
Entries 89
Mean −143
Std Dev 0

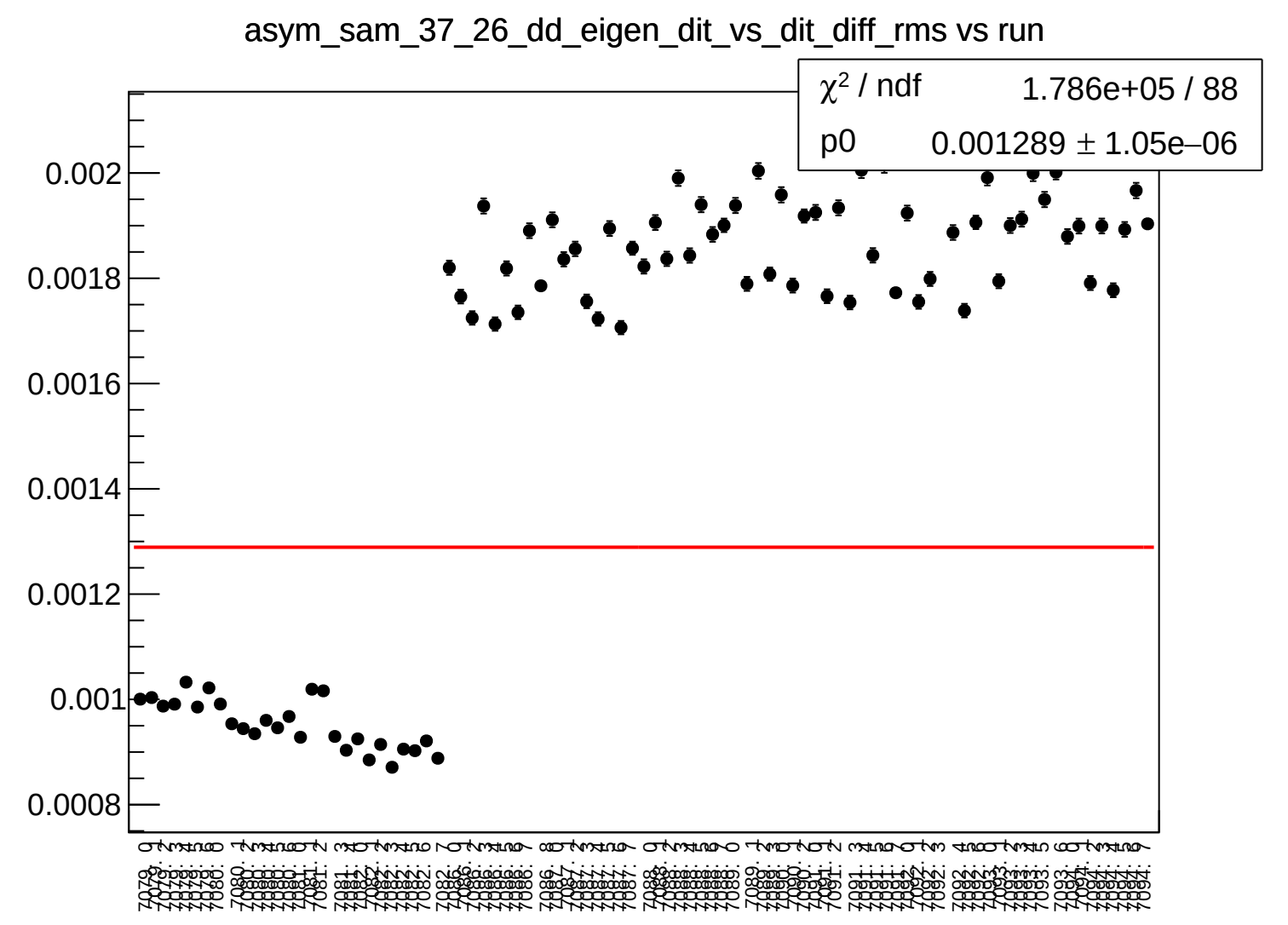

pull1D
Entries 89
Mean 0.008416
Std Dev 0.9634

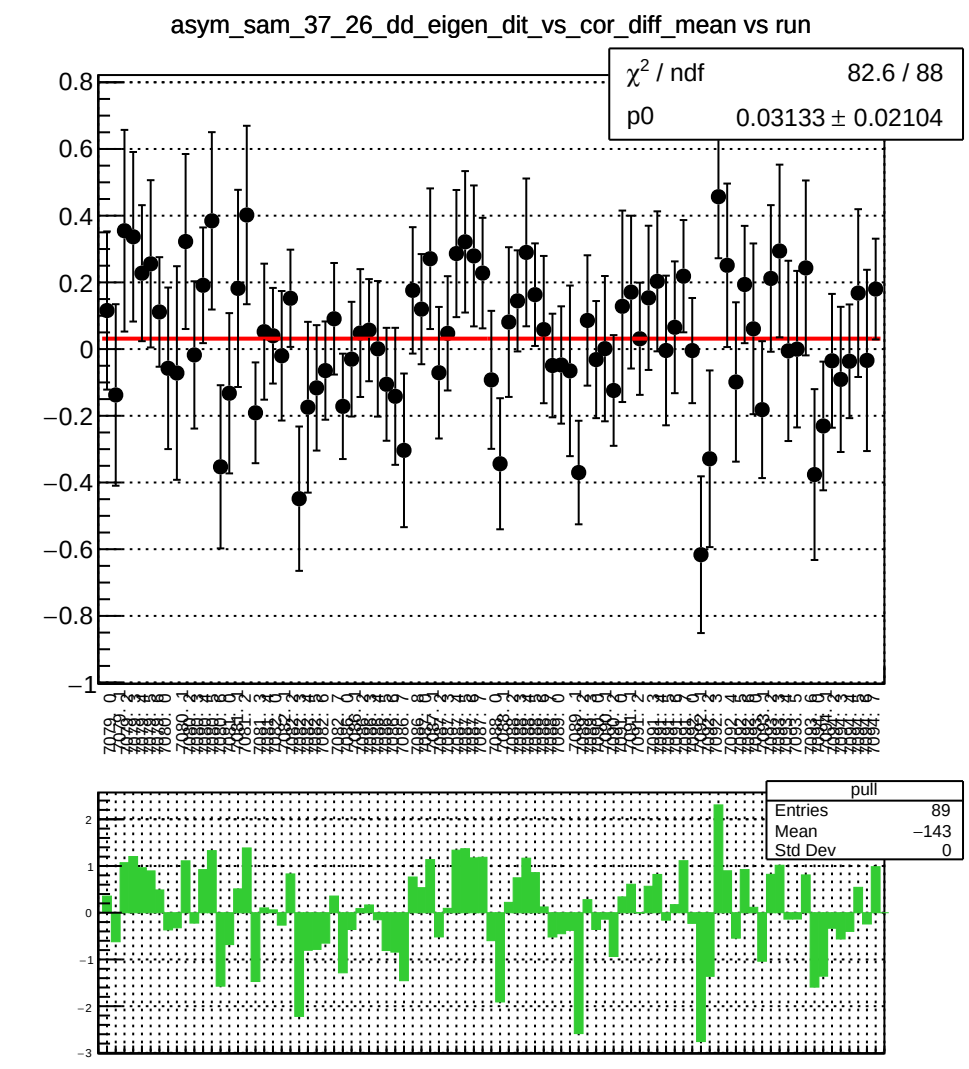

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.86e+04 / 88
p0 18.98 ± 0.01487
32
30
28
26
24
22
20
18
16
14
12

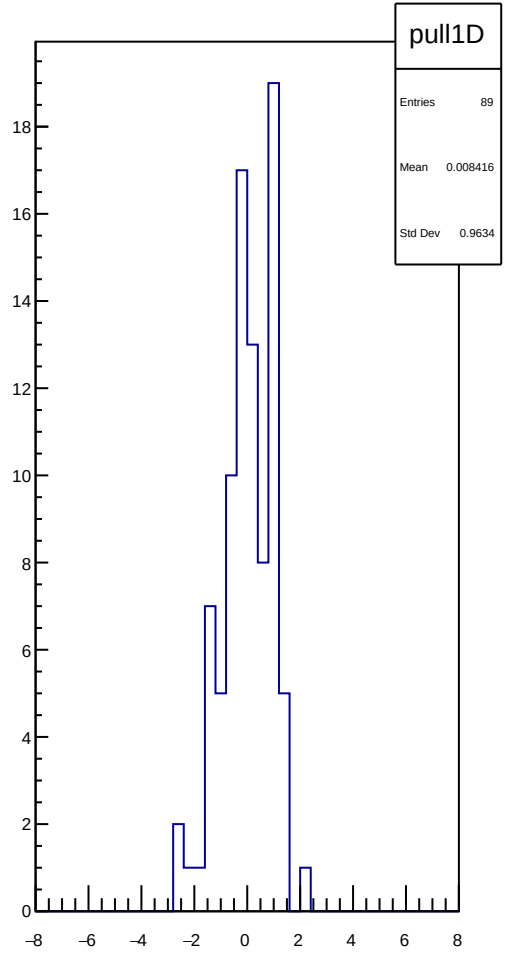

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.61 / 88
p0 0.03133 ± 0.02104
pull
Entries 89
Mean −143
Std Dev 0
pull1D
Entries 89
Mean 0.008416
Std Dev 0.9634

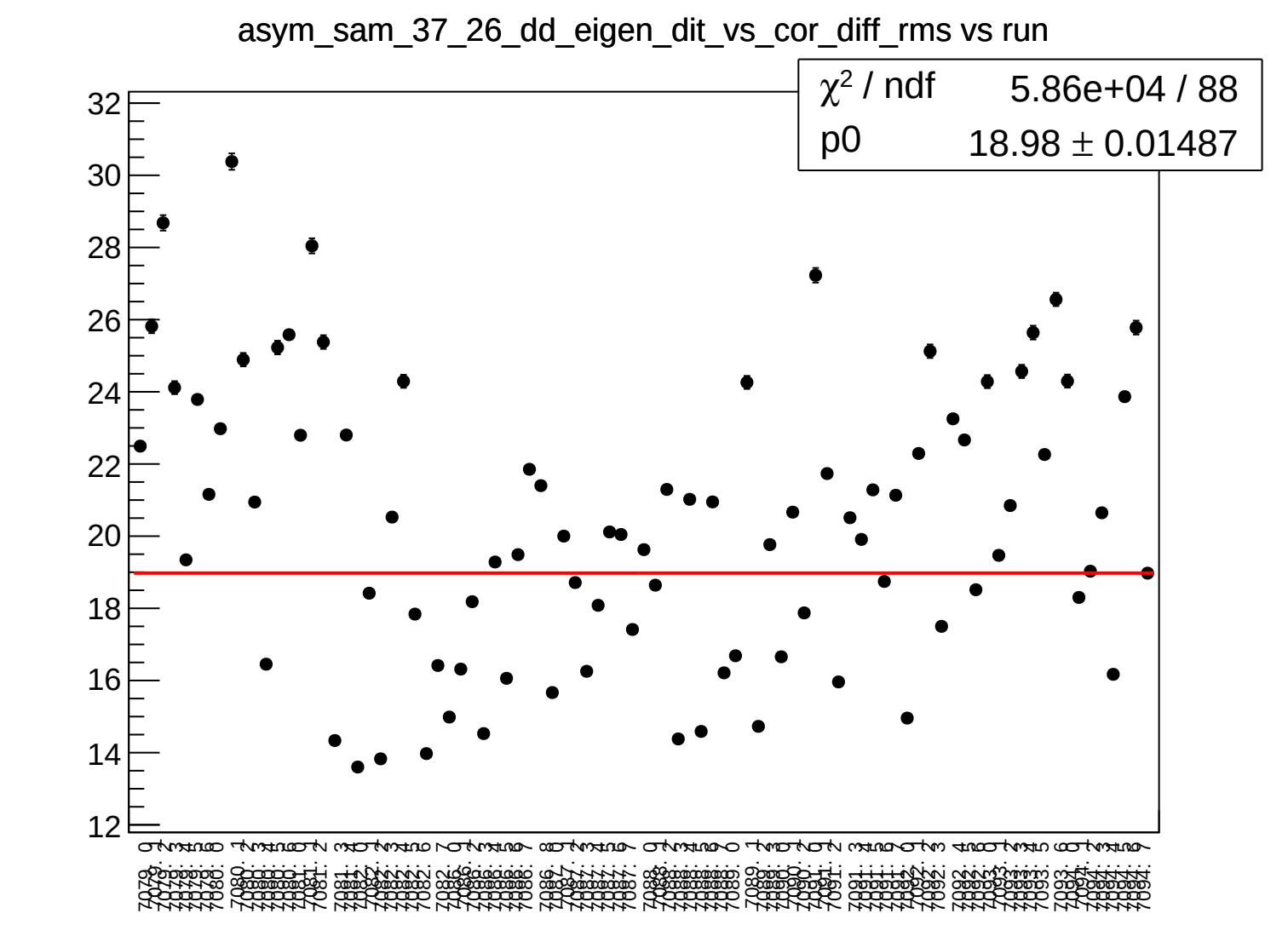

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.86e+04 / 88
p0 18.98 ± 0.01487
32
30
28
26
24
22
20
18
16
14
12

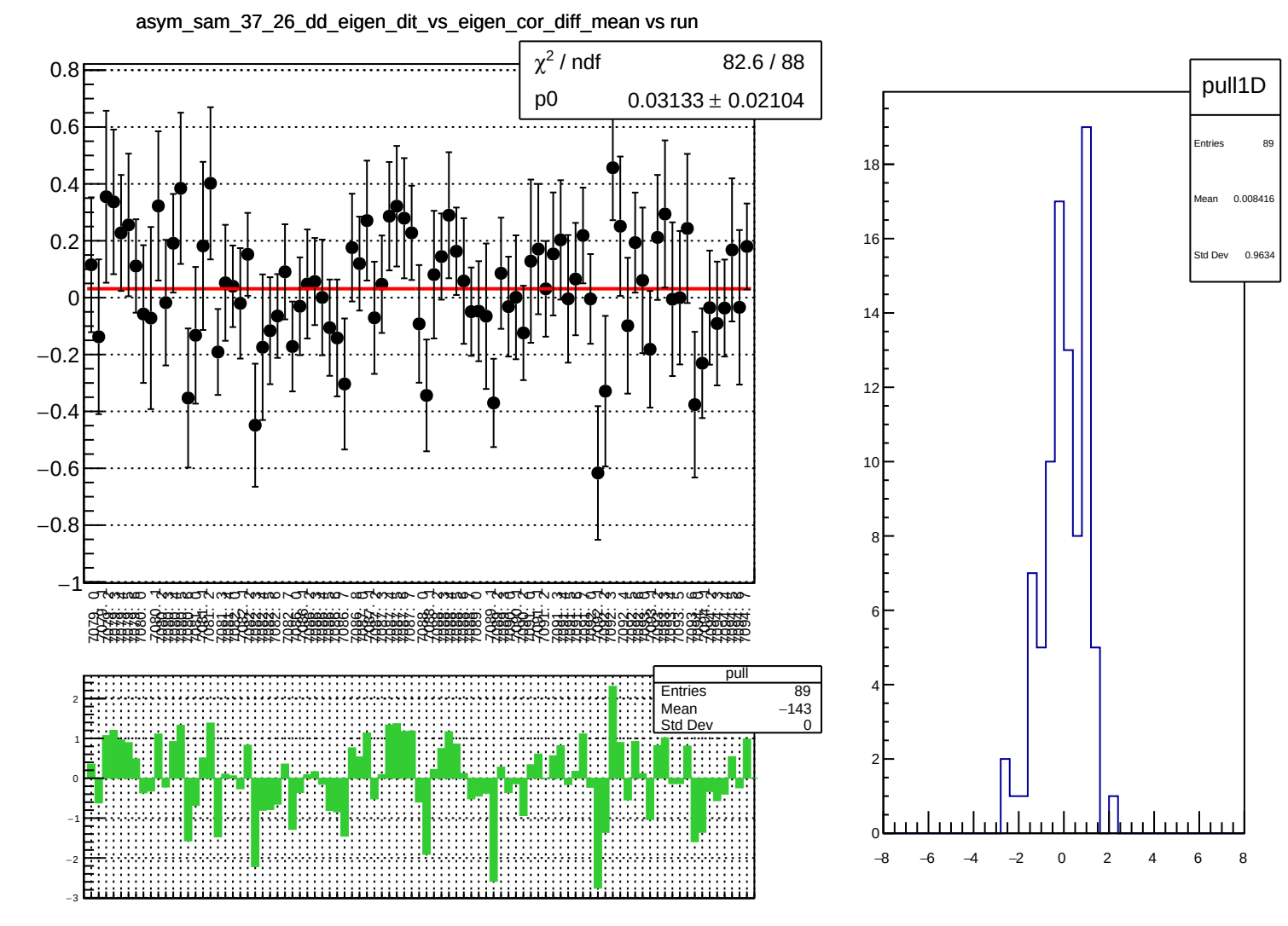

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.4 / 88
p0 −1.634e−06 ± 1.485e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean 123.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.04635
Std Dev 0.9131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

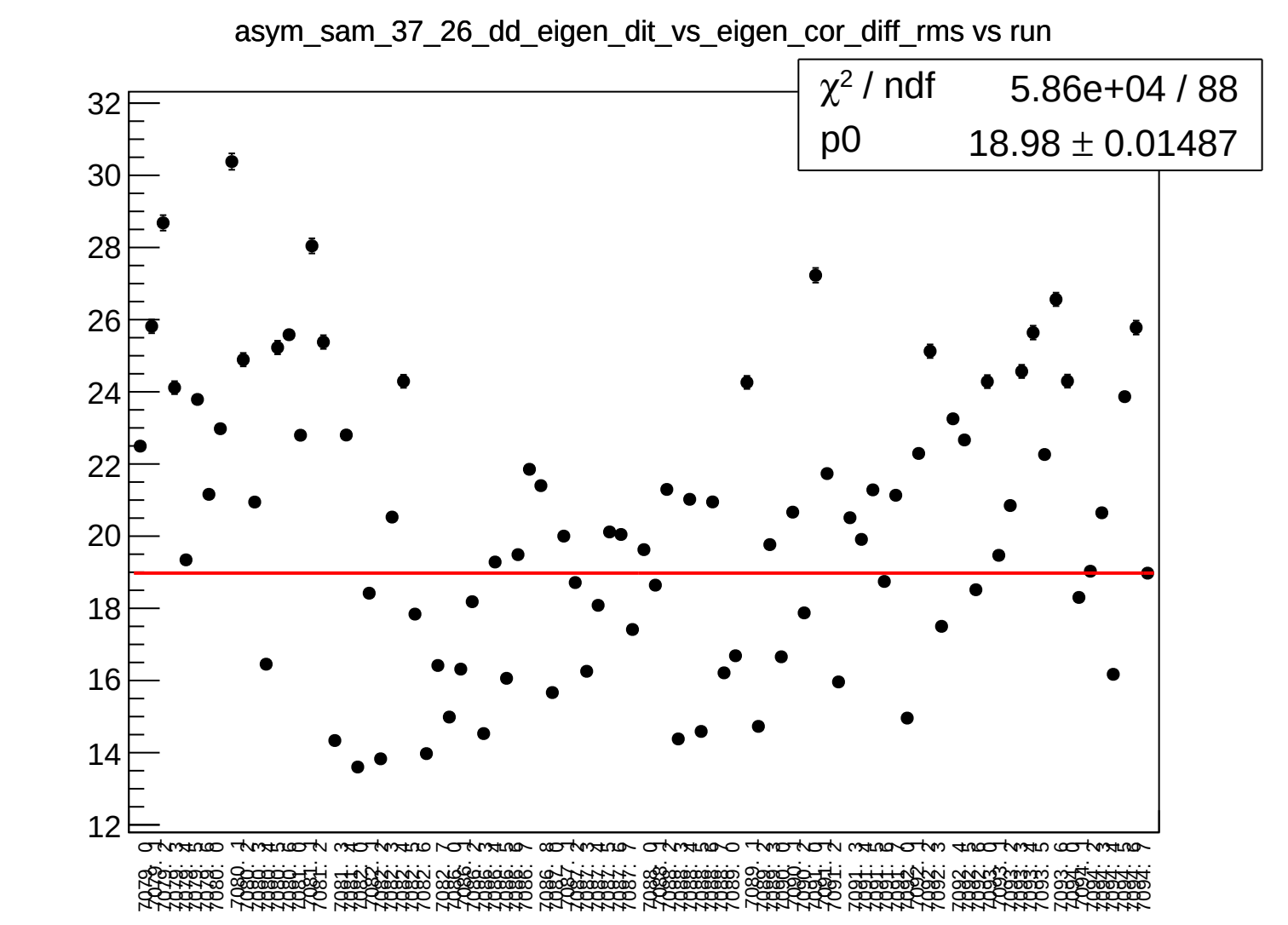

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.786e+05 / 88
p0 0.001289 ± 1.05e−06
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

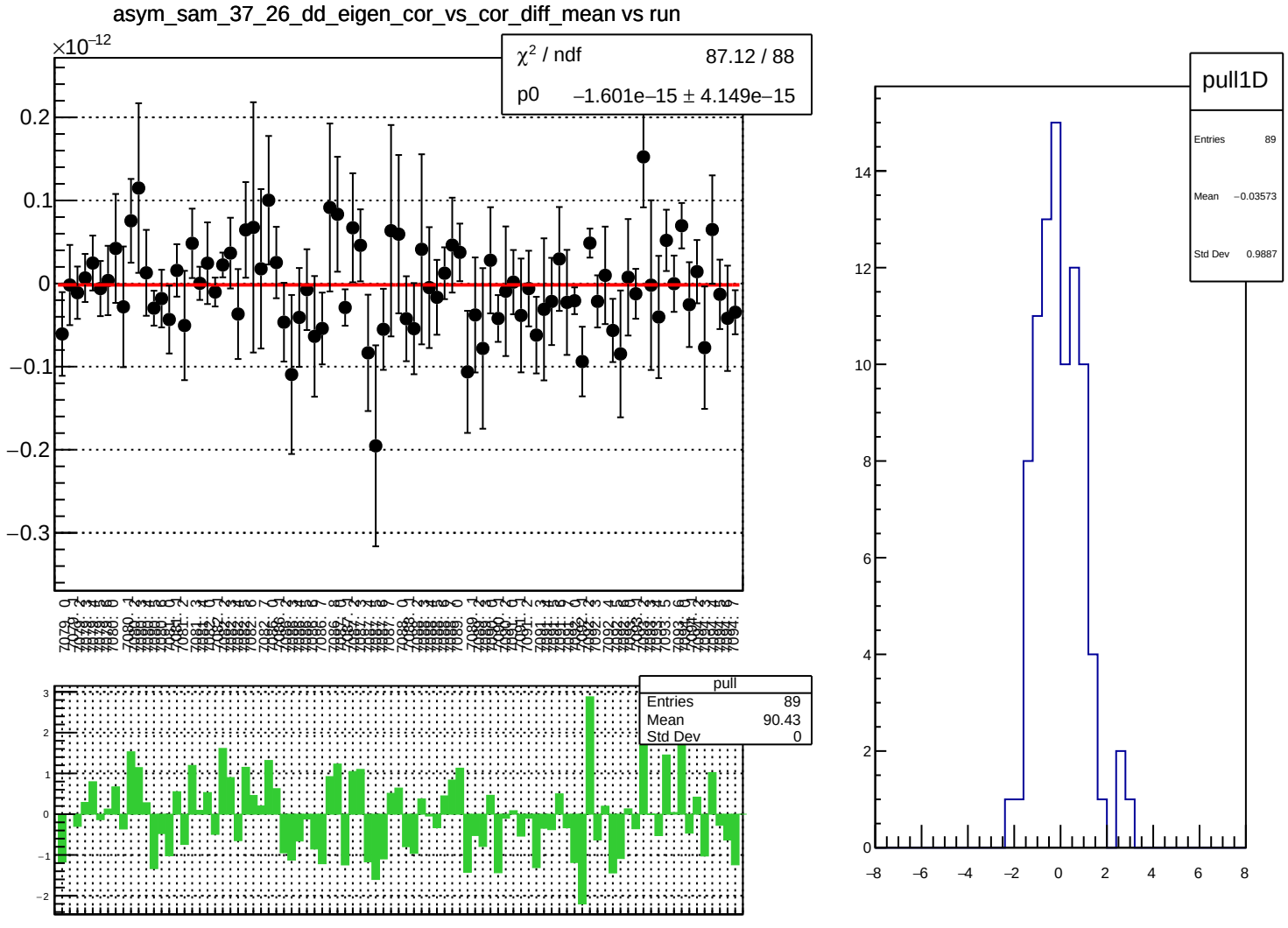

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.6 / 88
p0 0.03133 ± 0.02104
pull
Entries 89
Mean −143
Std Dev 0

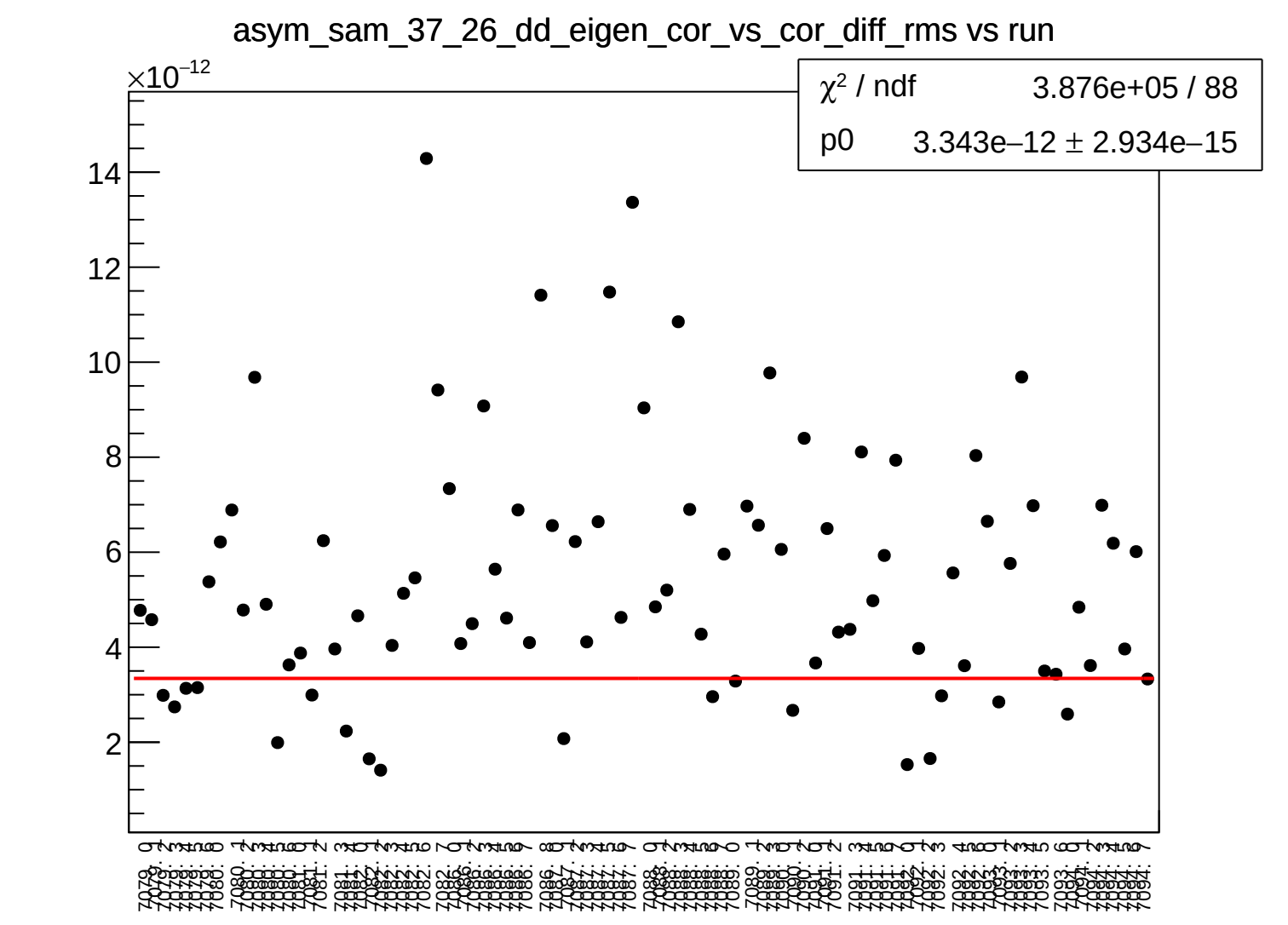

pull1D
Entries 89
Mean 0.008416
Std Dev 0.9634

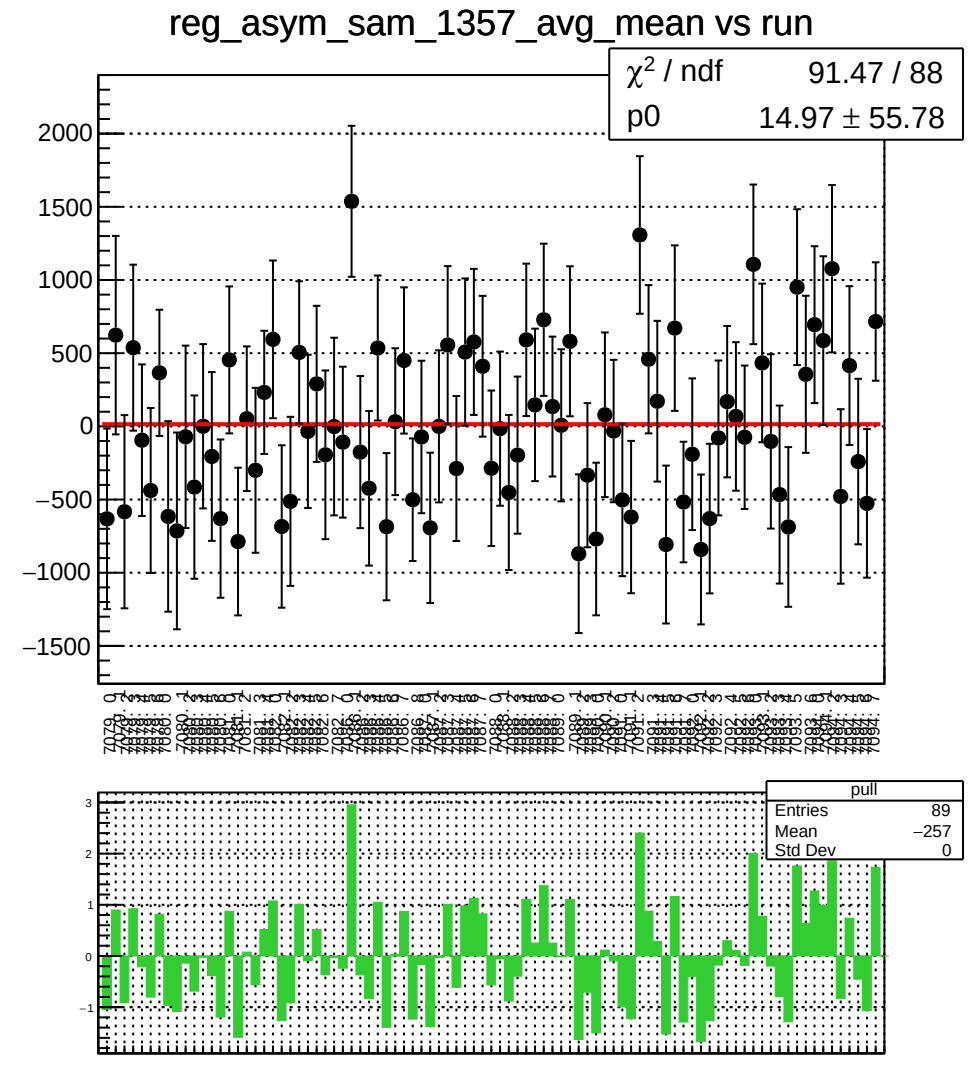

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.86e+04 / 88
p0 18.98 ± 0.01487
32
30
28
26
24
22
20
18
16
14
12

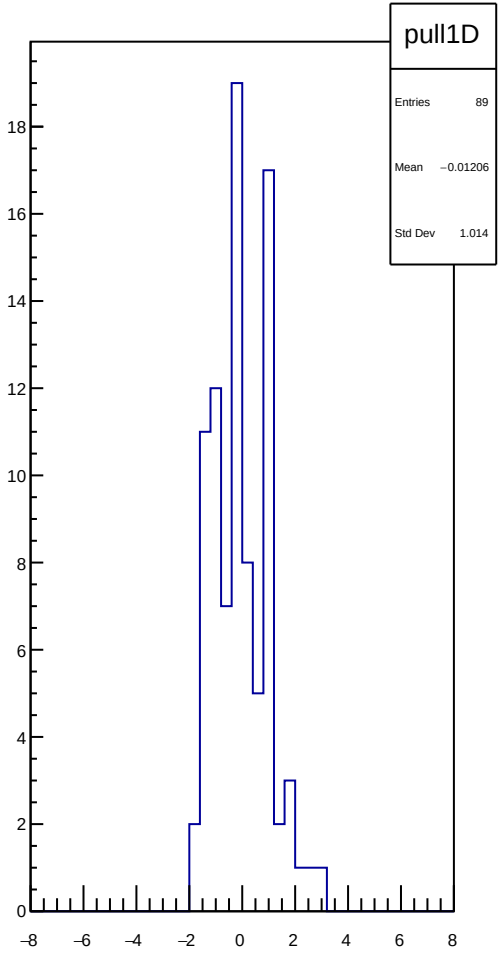

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.6 / 88
p0 0.03133 ± 0.02104
pull
Entries 89
Mean −143
Std Dev 0
pull1D
Entries 89
Mean 0.008416
Std Dev 0.9634

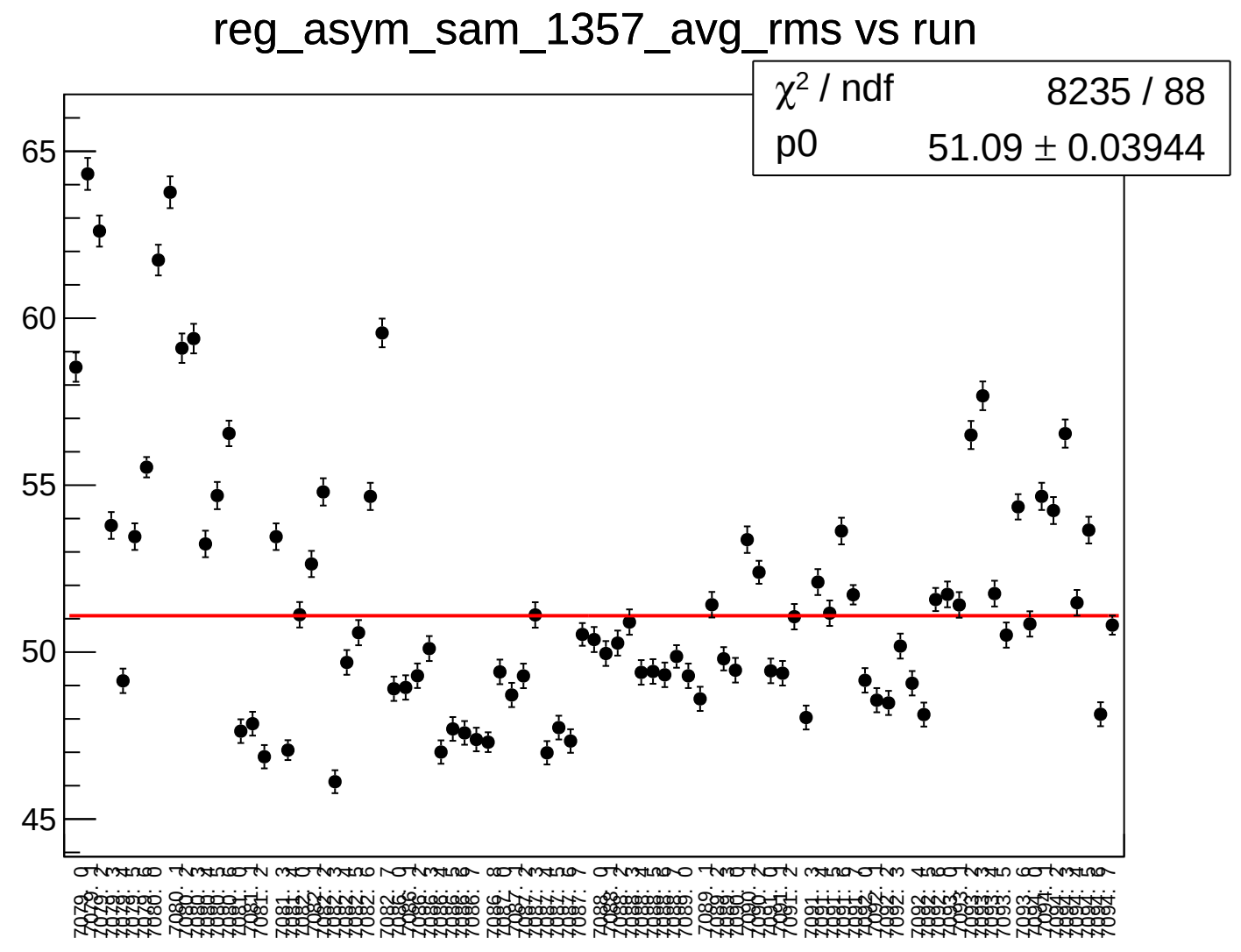

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.86e+04 / 88
p0 18.98 ± 0.01487
32
30
28
26
24
22
20
18
16
14
12

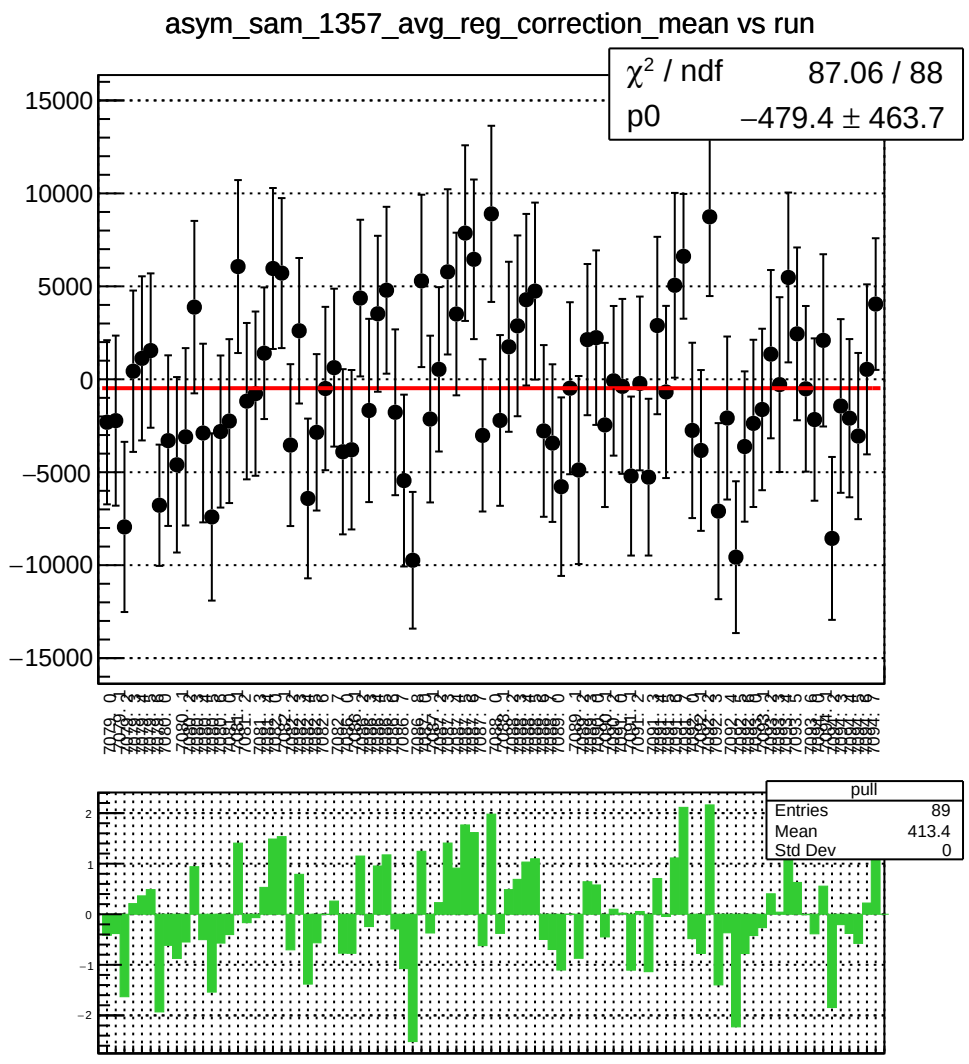

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.12 / 88
p0 −1.601e−15 ± 4.149e−15
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean 90.43
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.03573
Std Dev 0.9887
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

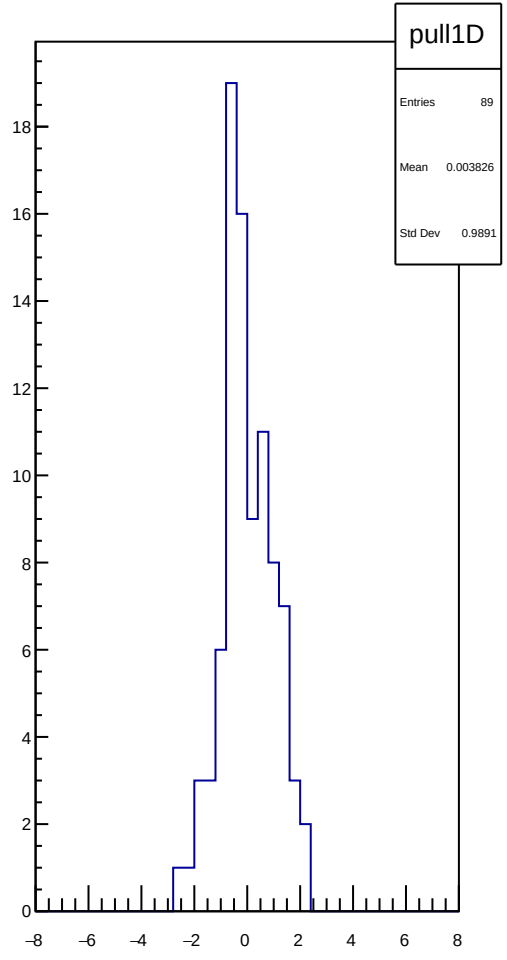

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.876e+05 / 88
p0 3.343e−12 ± 2.934e−15
14
12
10
8
6
4
2

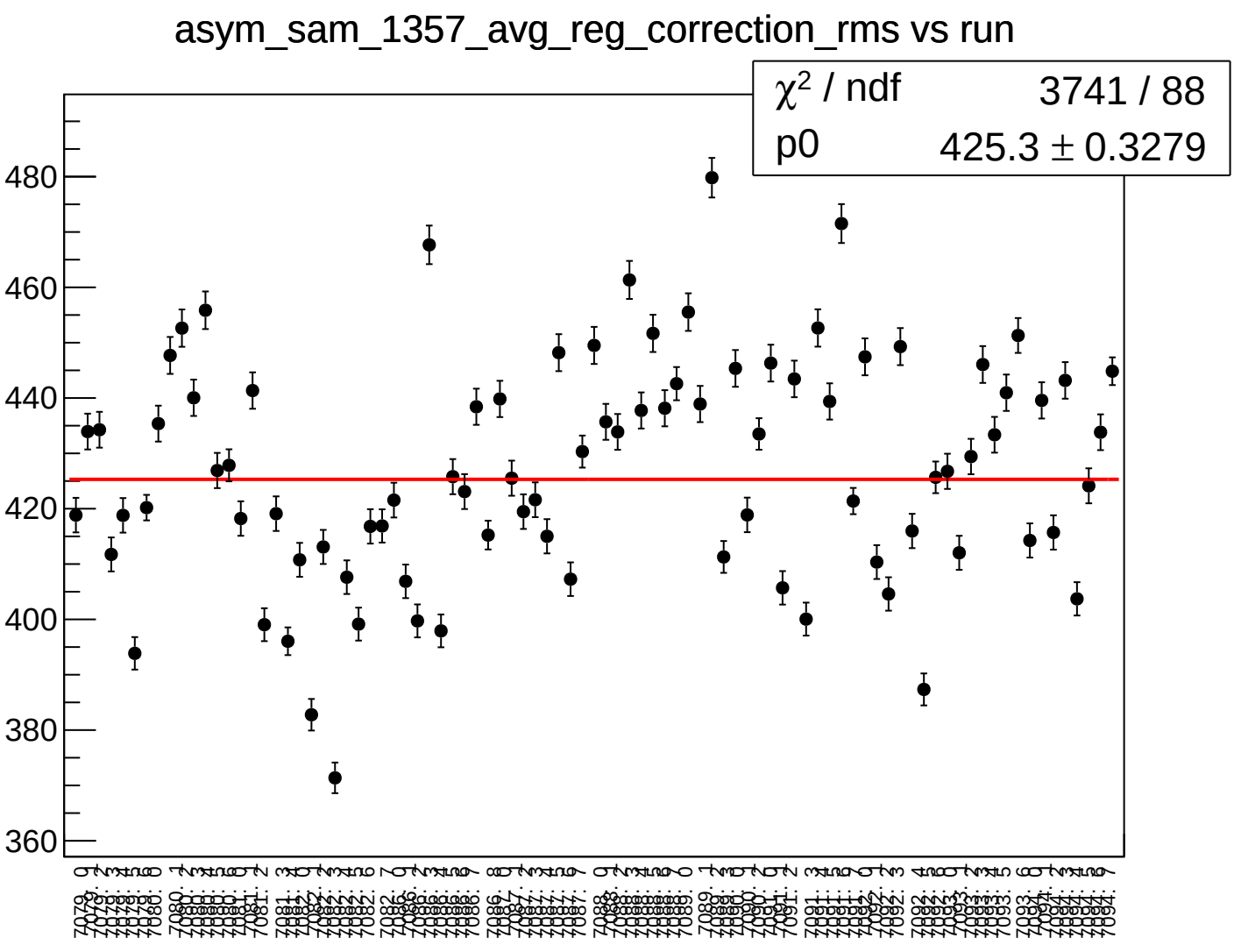

reg_asym_sam_1357_avg_mean vs run
χ^2 / ndf 91.47 / 88
p0 14.97 ± 55.78
pull
Entries 89
Mean −257
Std Dev 0

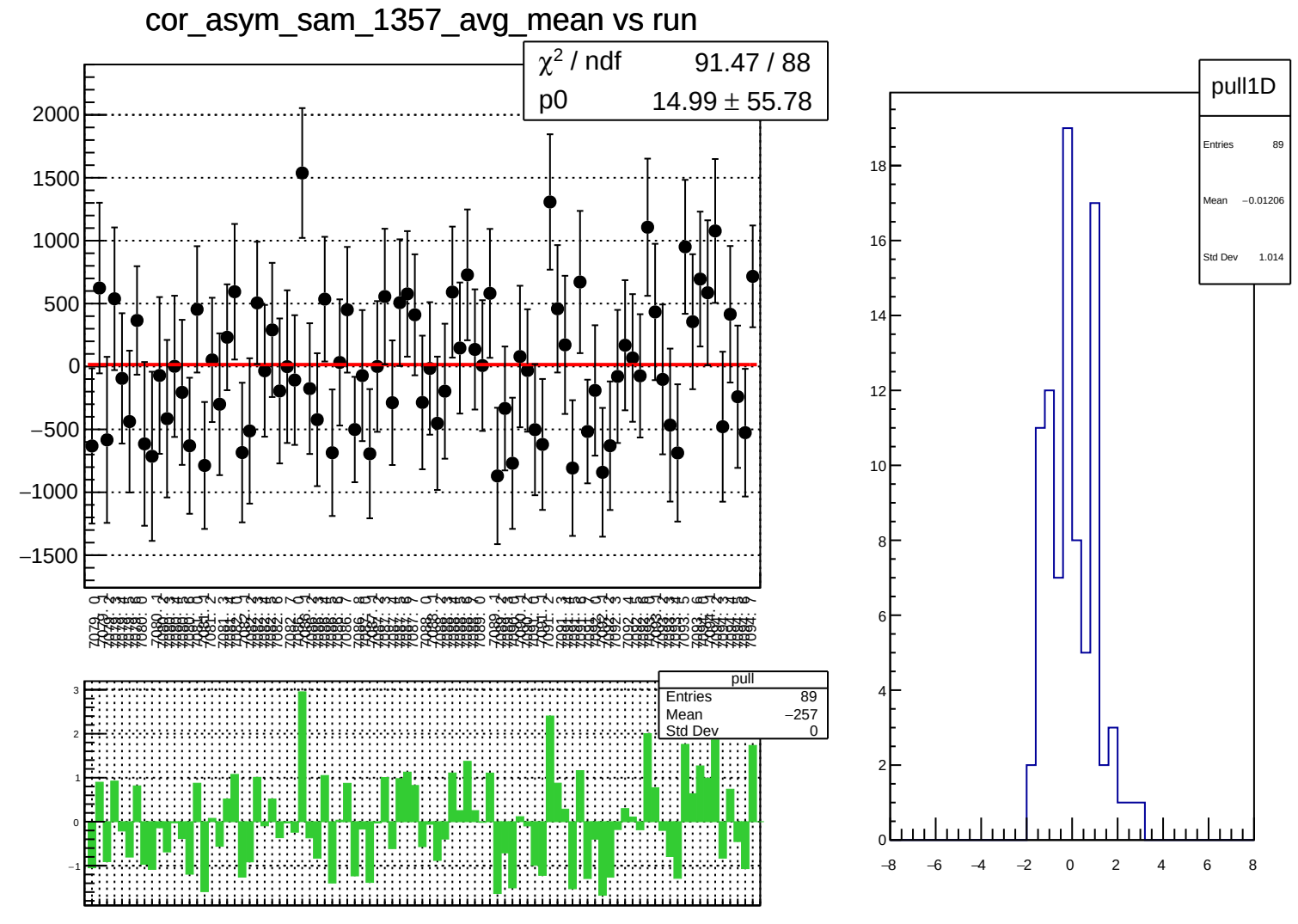

pull1D
Entries 89
Mean −0.01206
Std Dev 1.014

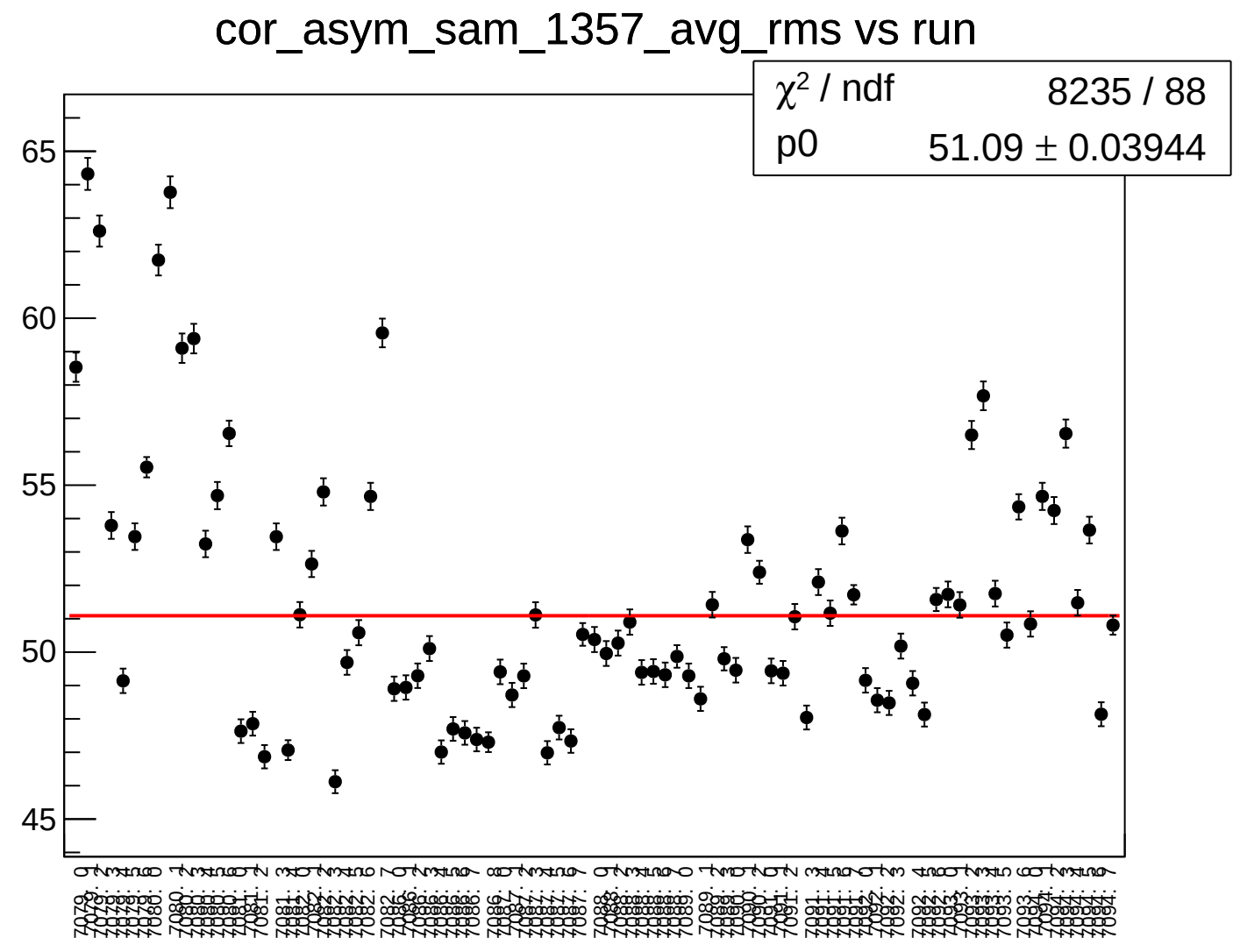

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 8235 / 88
p0 51.09 ± 0.03944
65
60
55
50
45

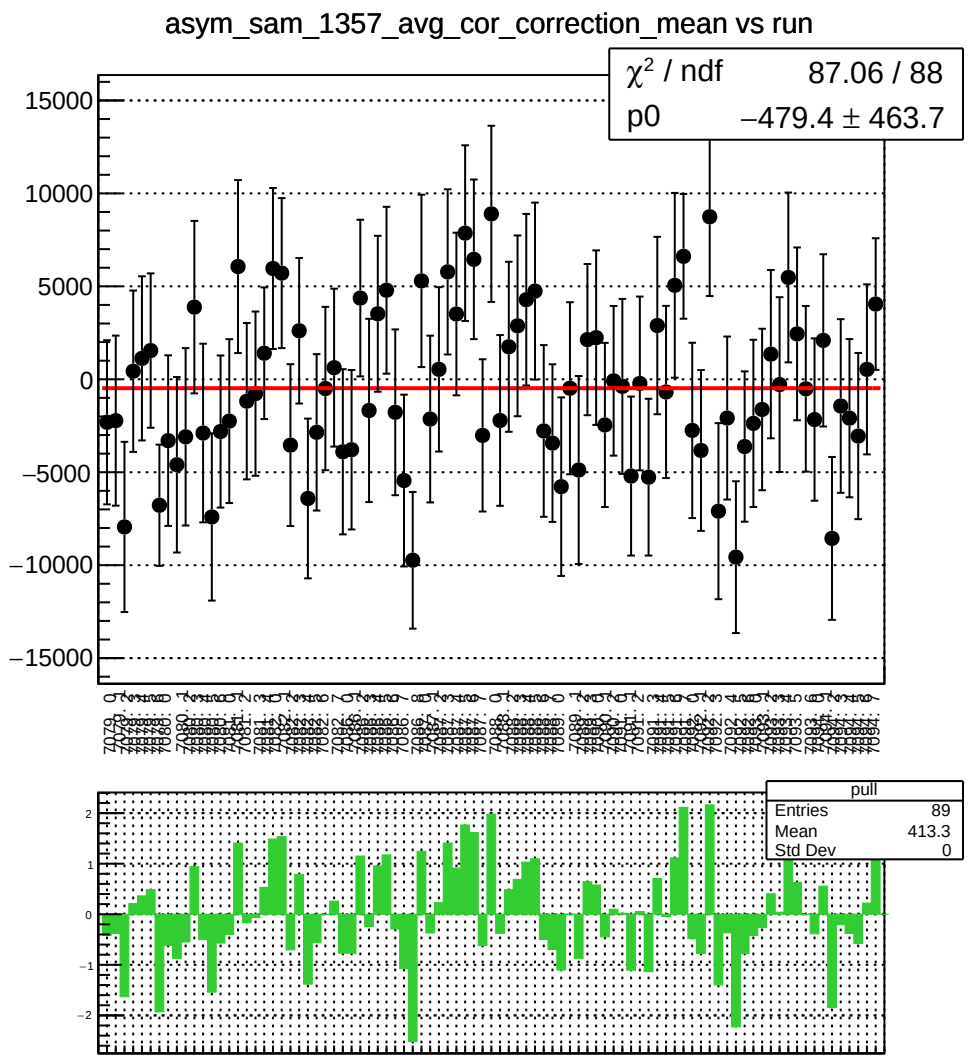

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 87.06 / 88
p0 −479.4 ± 463.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 413.4
Std Dev 0
2
1
0
−1
−2

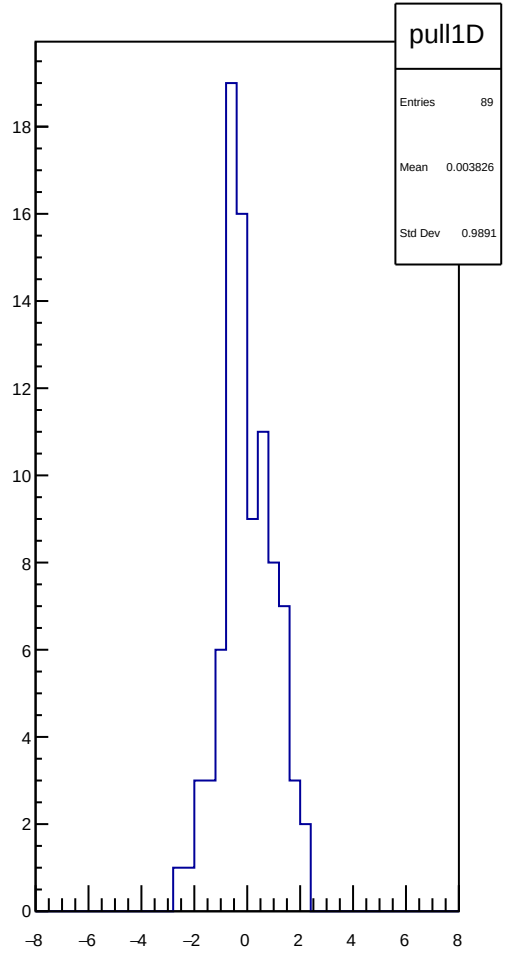

pull1D
Entries 89
Mean 0.003826
Std Dev 0.9891
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

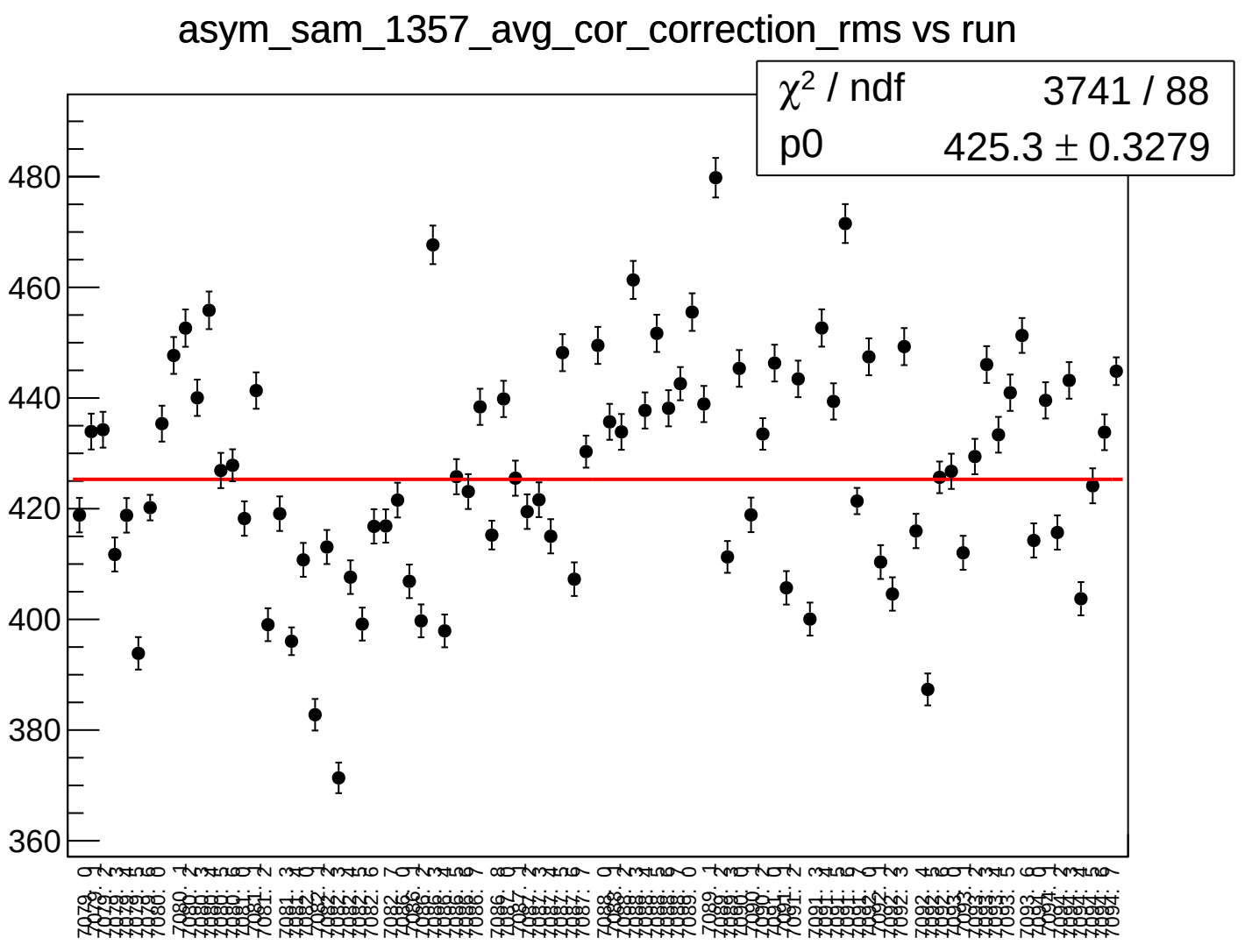

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 3741 / 88
p0 425.3 ± 0.3279
480
460
440
420
400
380
360

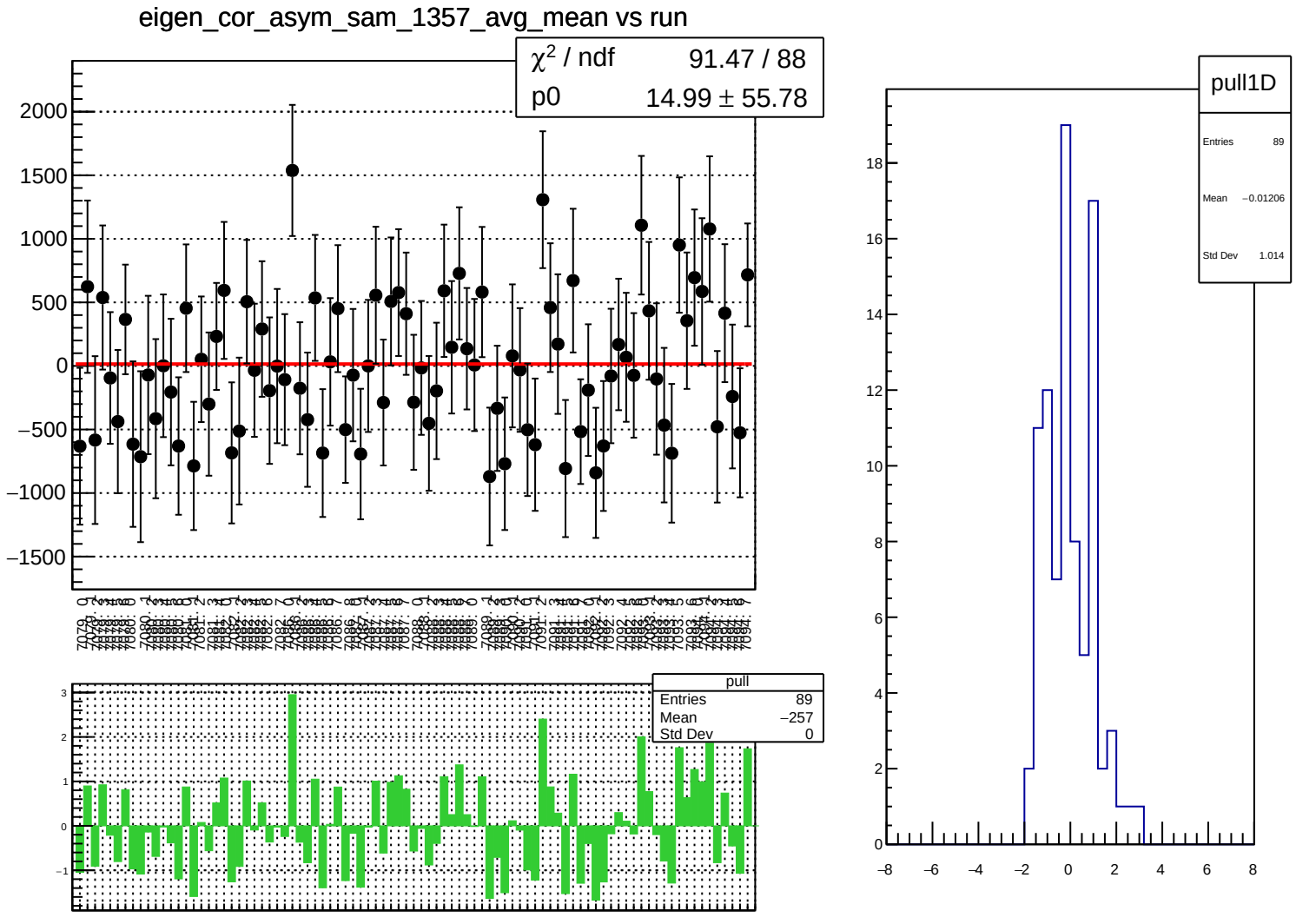

cor_asym_sam_1357_avg_mean vs run
χ^2 / ndf 91.47 / 88
p0 14.99 ± 55.78
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −257
Std Dev 0
3
2
1
0
−1
pull1D
Entries 89
Mean −0.01206
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

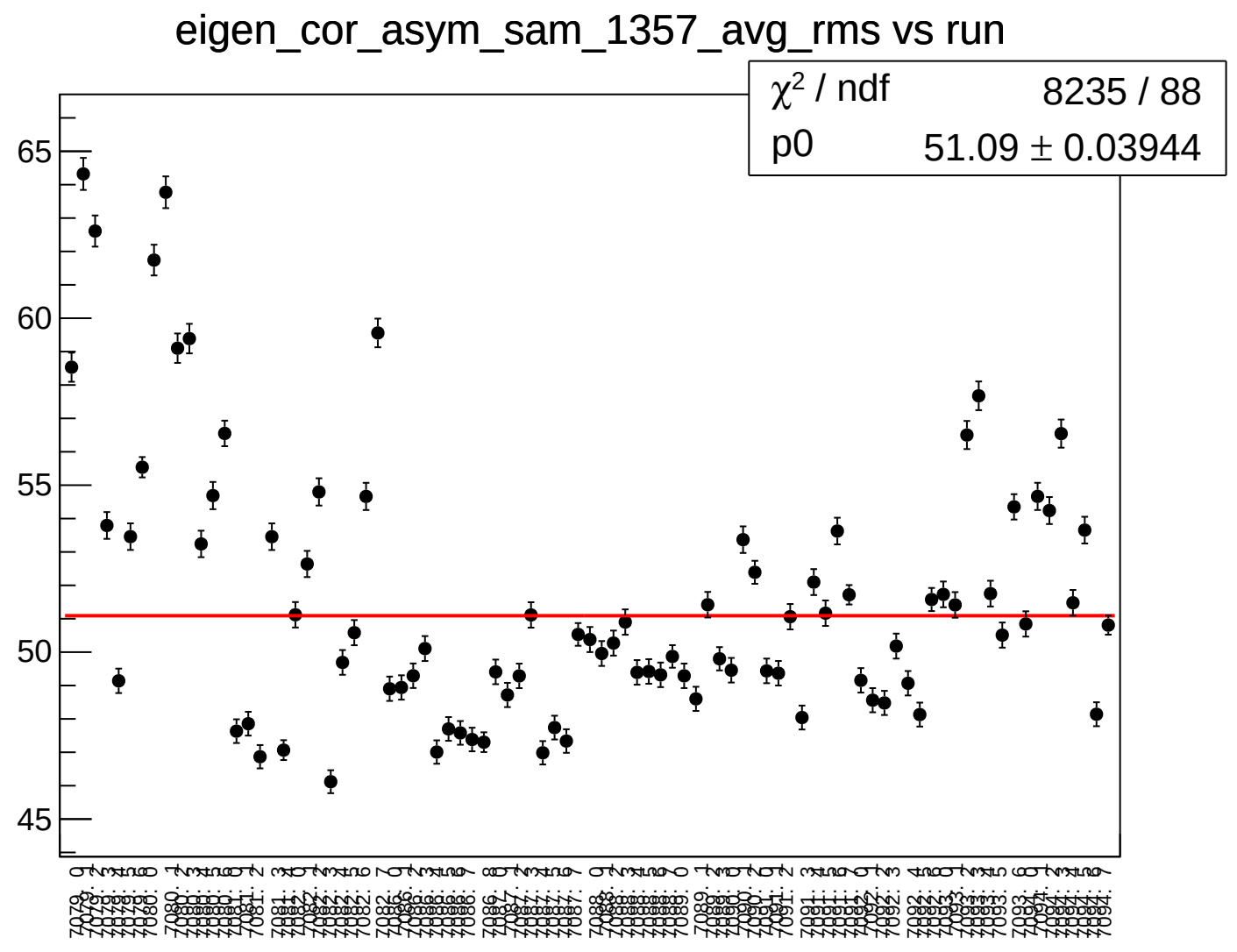

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 8235 / 88
p0 51.09 ± 0.03944
65
60
55
50
45

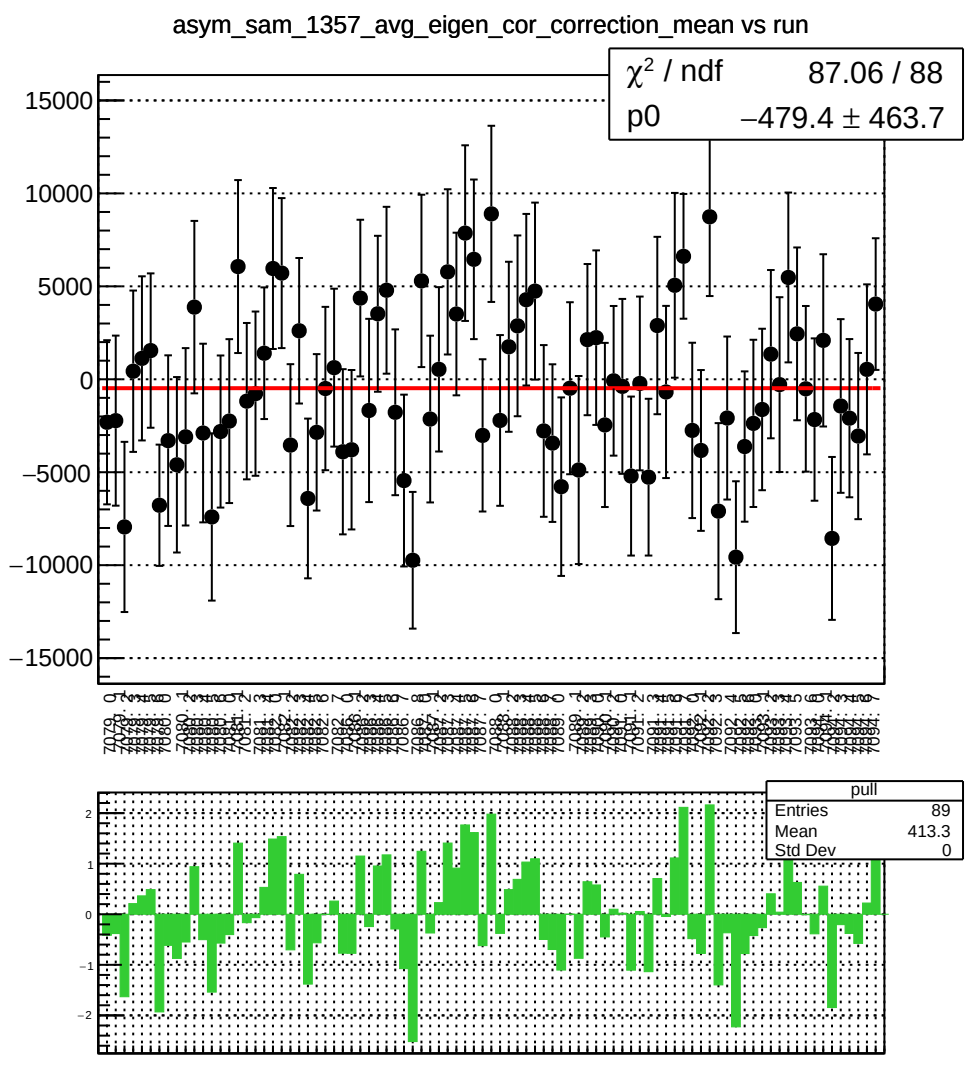

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 87.06 / 88
p0 −479.4 ± 463.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 413.3
Std Dev 0
2
1
0
−1
−2

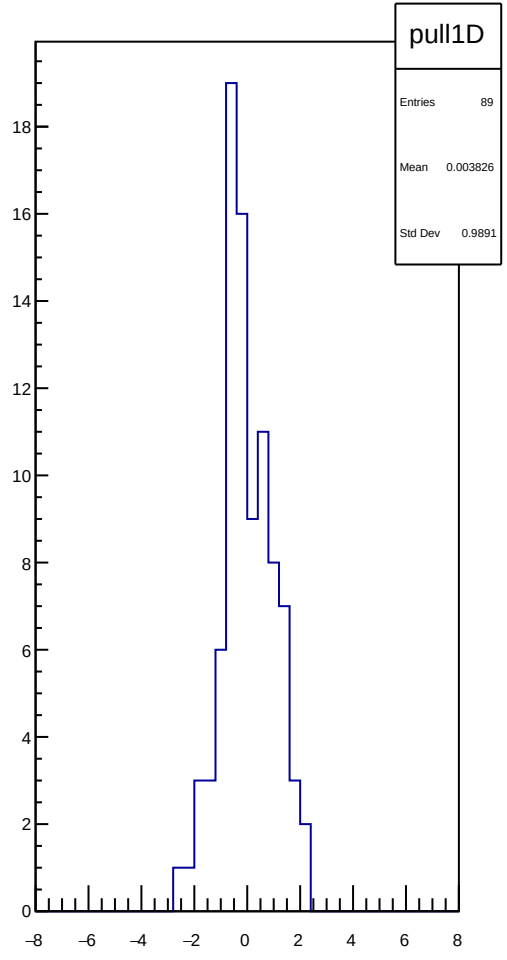

pull1D
Entries 89
Mean 0.003826
Std Dev 0.9891
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

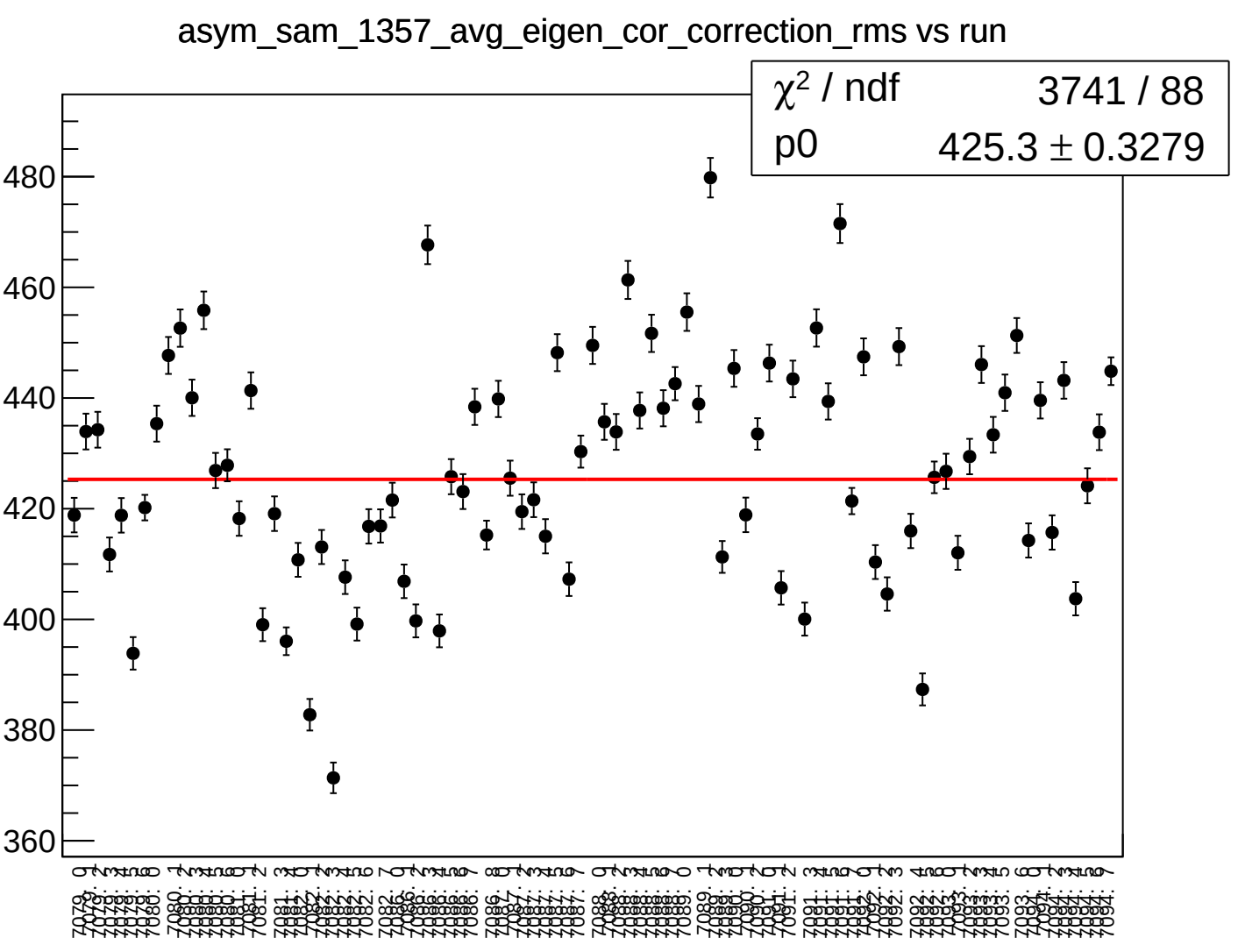

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 3741 / 88
p0 425.3 ± 0.3279
480
460
440
420
400
380
360

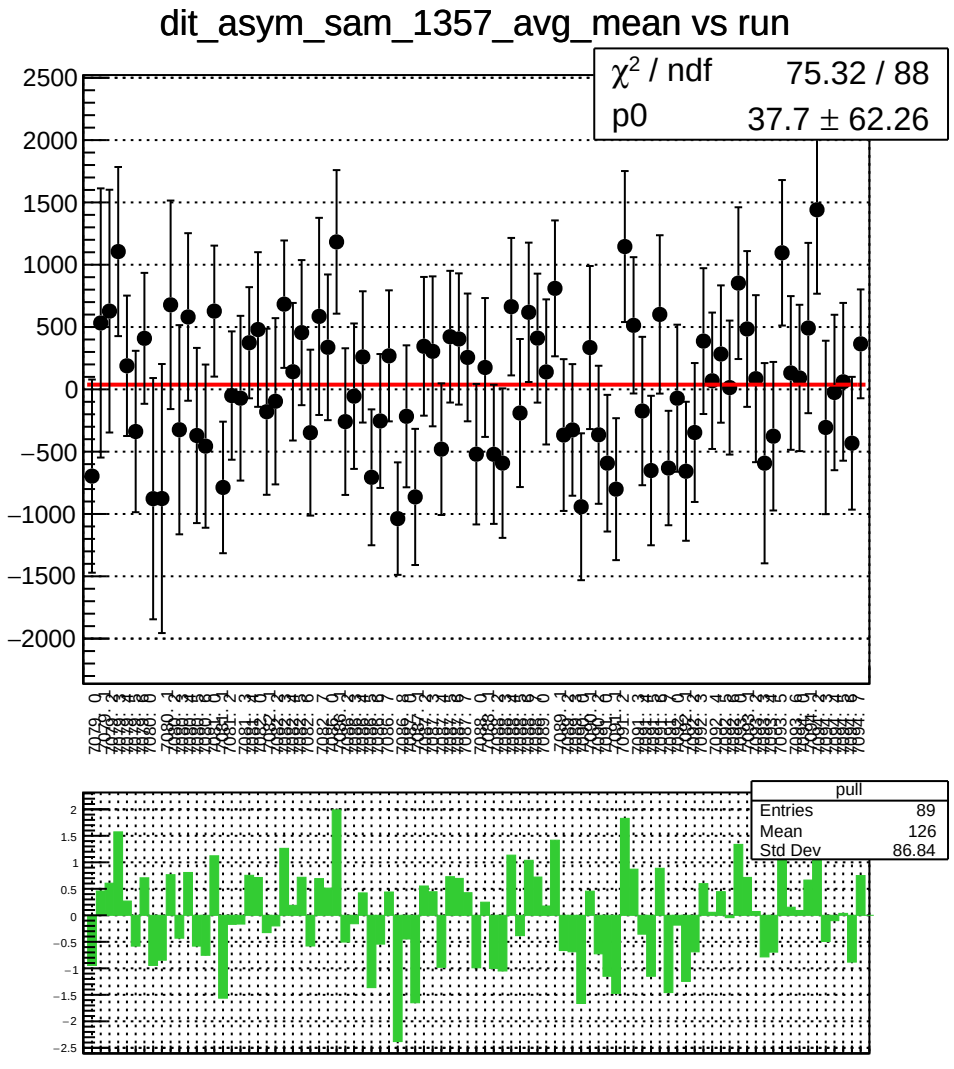

eigen_cor_asym_sam_1357_avg_mean vs run
χ^2 / ndf 91.47 / 88
p0 14.99 ± 55.78
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −257
Std Dev 0
3
2
1
0
−1
pull1D
Entries 89
Mean −0.01206
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

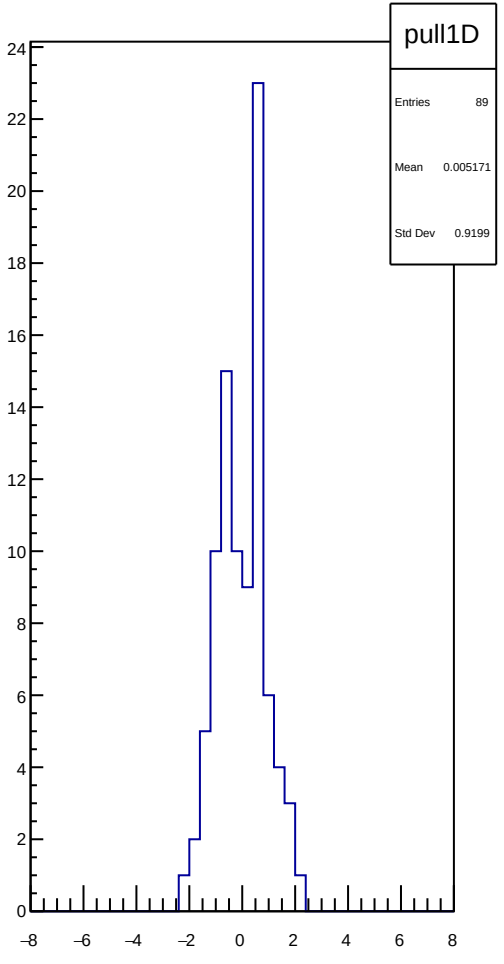

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 8235 / 88
p0 51.09 ± 0.03944
65
60
55
50
45

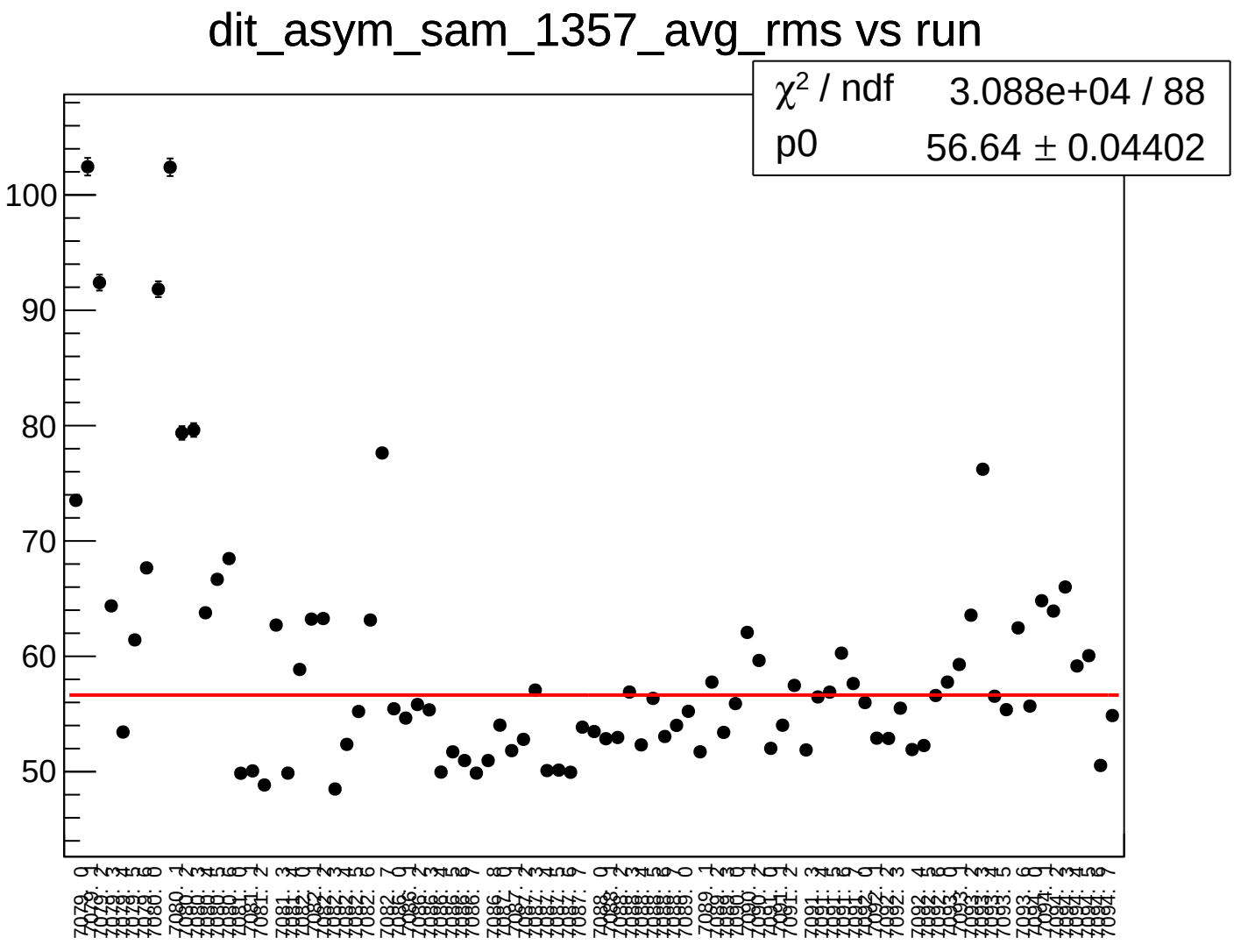

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.06 / 88
p0 −479.4 ± 463.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 413.3
Std Dev 0
2
1
0
−1
−2

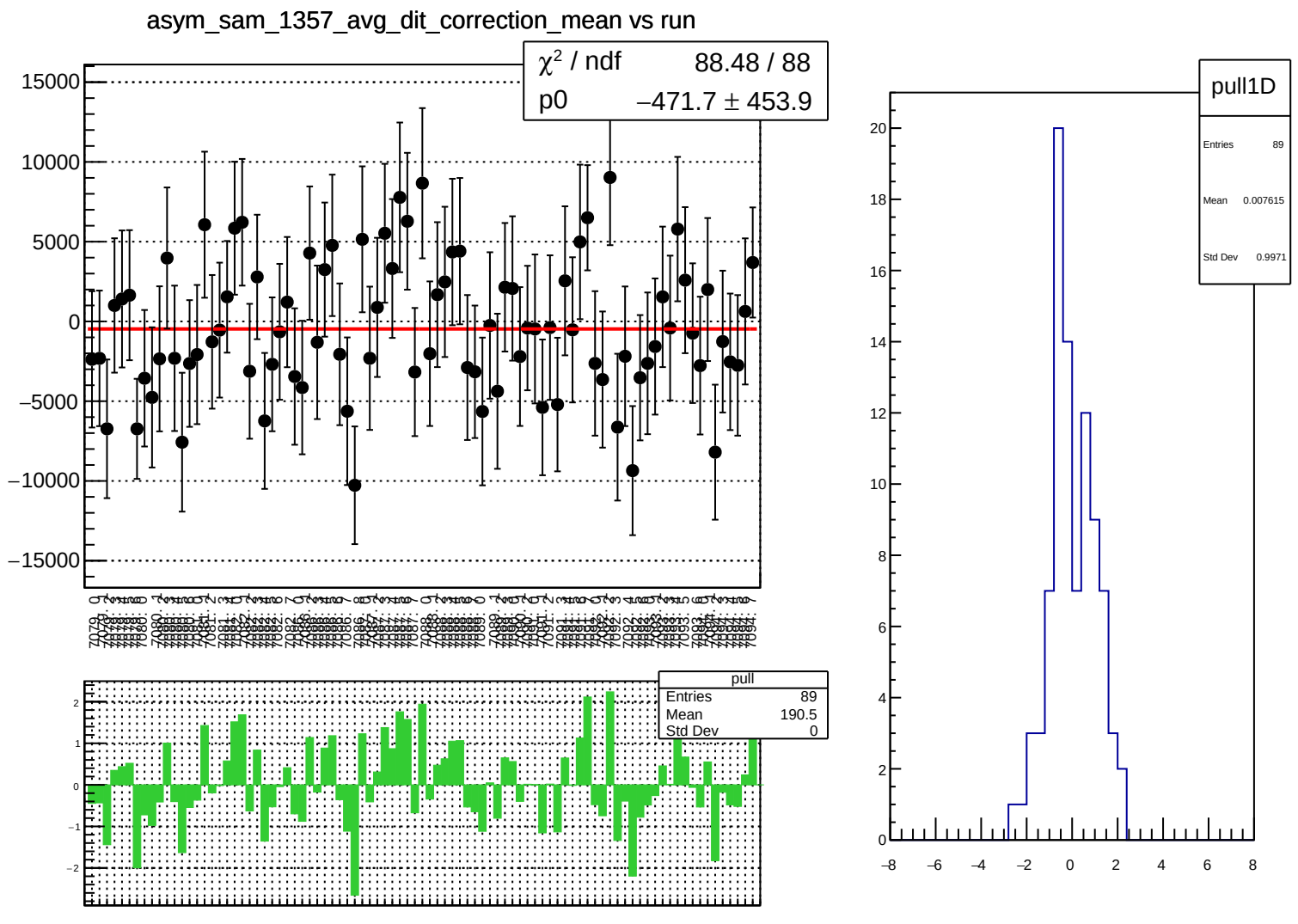

pull1D
Entries 89
Mean 0.003826
Std Dev 0.9891
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

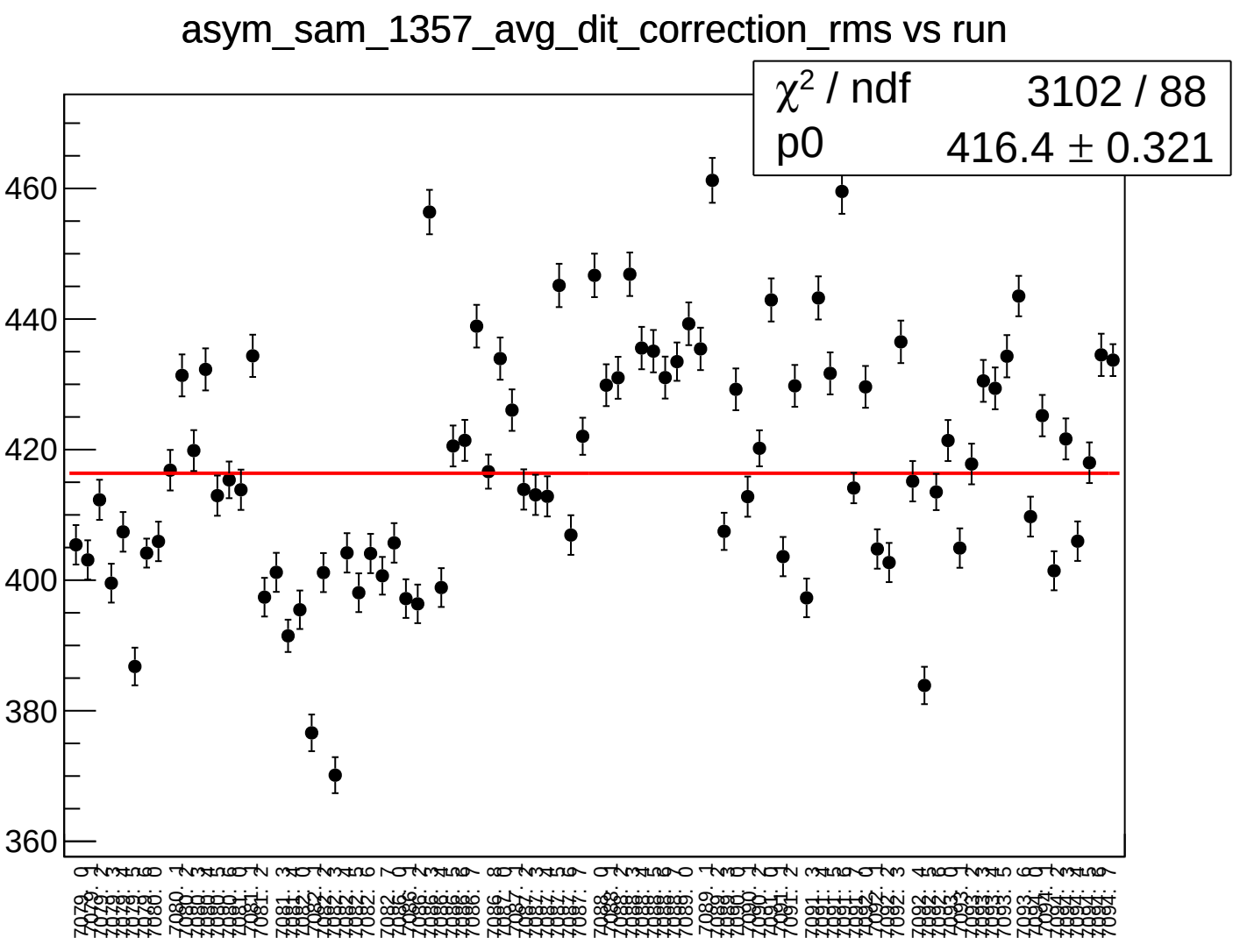

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 3741 / 88
p0 425.3 ± 0.3279
480
460
440
420
400
380
360

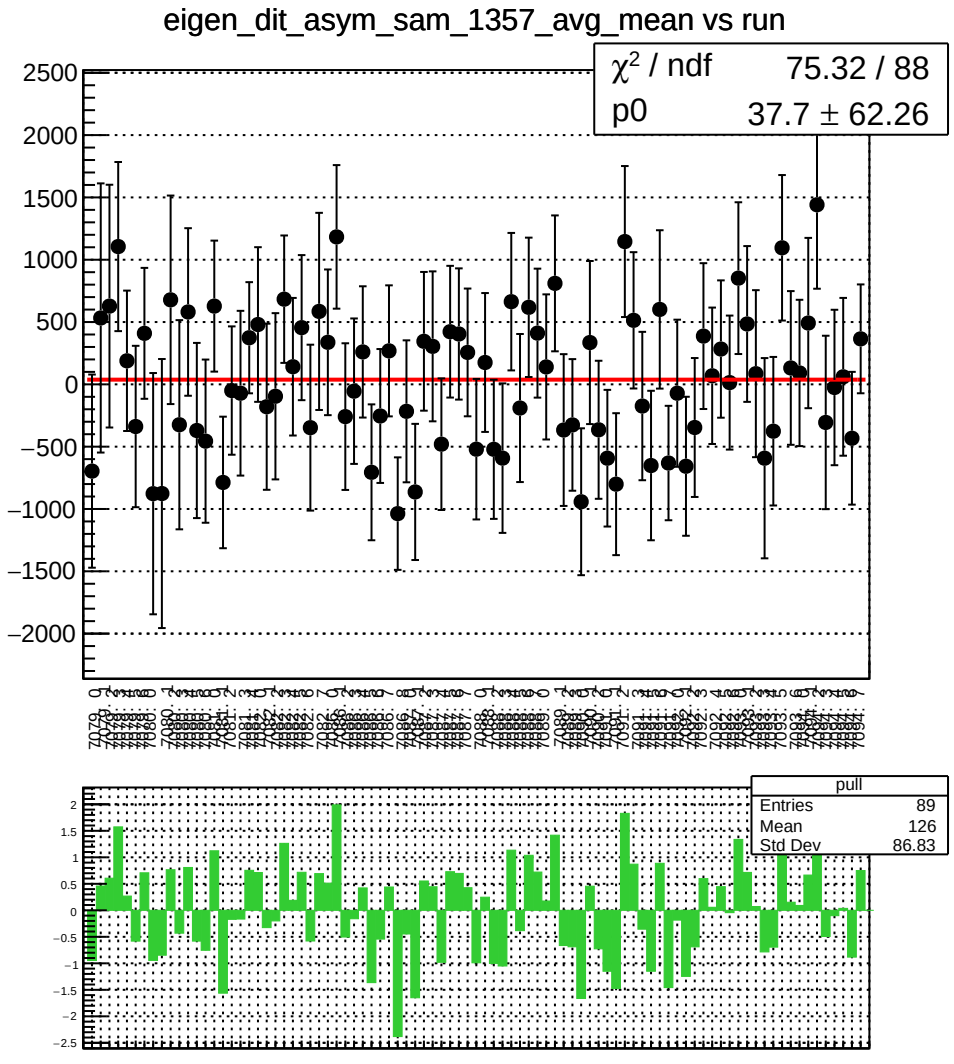

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 75.32 / 88
p0 37.7 ± 62.26
pull
Entries 89
Mean 126
Std Dev 86.84

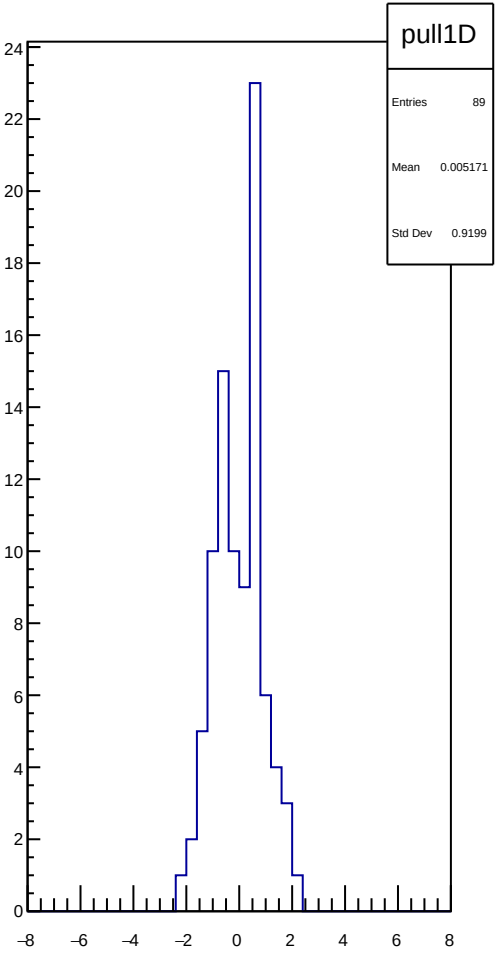

pull1D
Entries 89
Mean 0.005171
Std Dev 0.9199

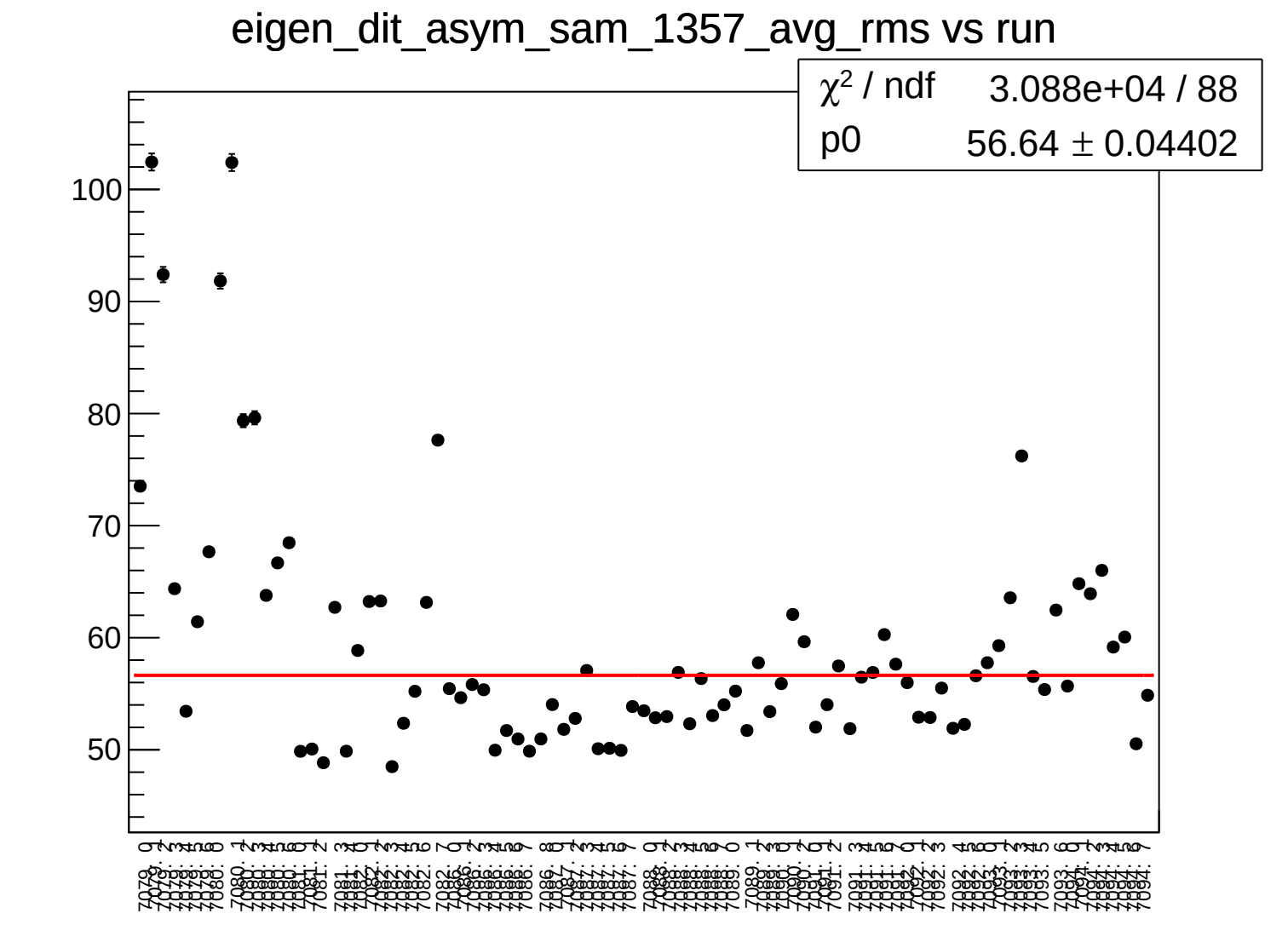

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.088e+04 / 88
p0 56.64 ± 0.04402
100
90
80
70
60
50

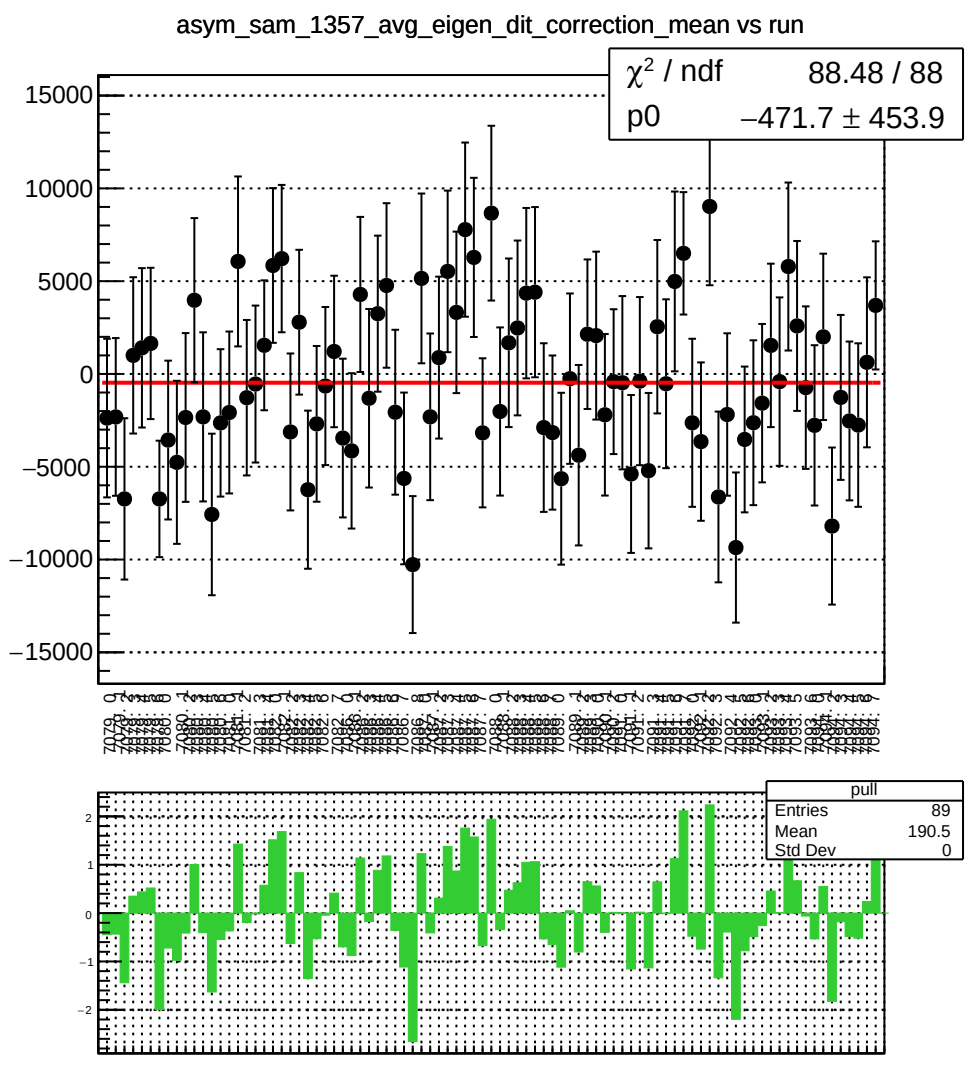

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 88.48 / 88
p0 −471.7 ± 453.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 190.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.007615
Std Dev 0.9971
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

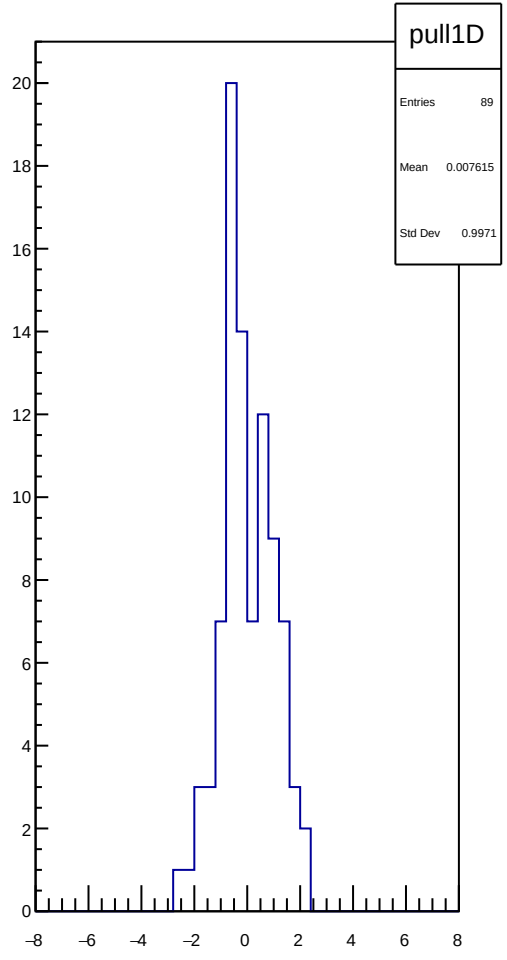

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3102 / 88
p0 416.4 ± 0.321
460
440
420
400
380
360

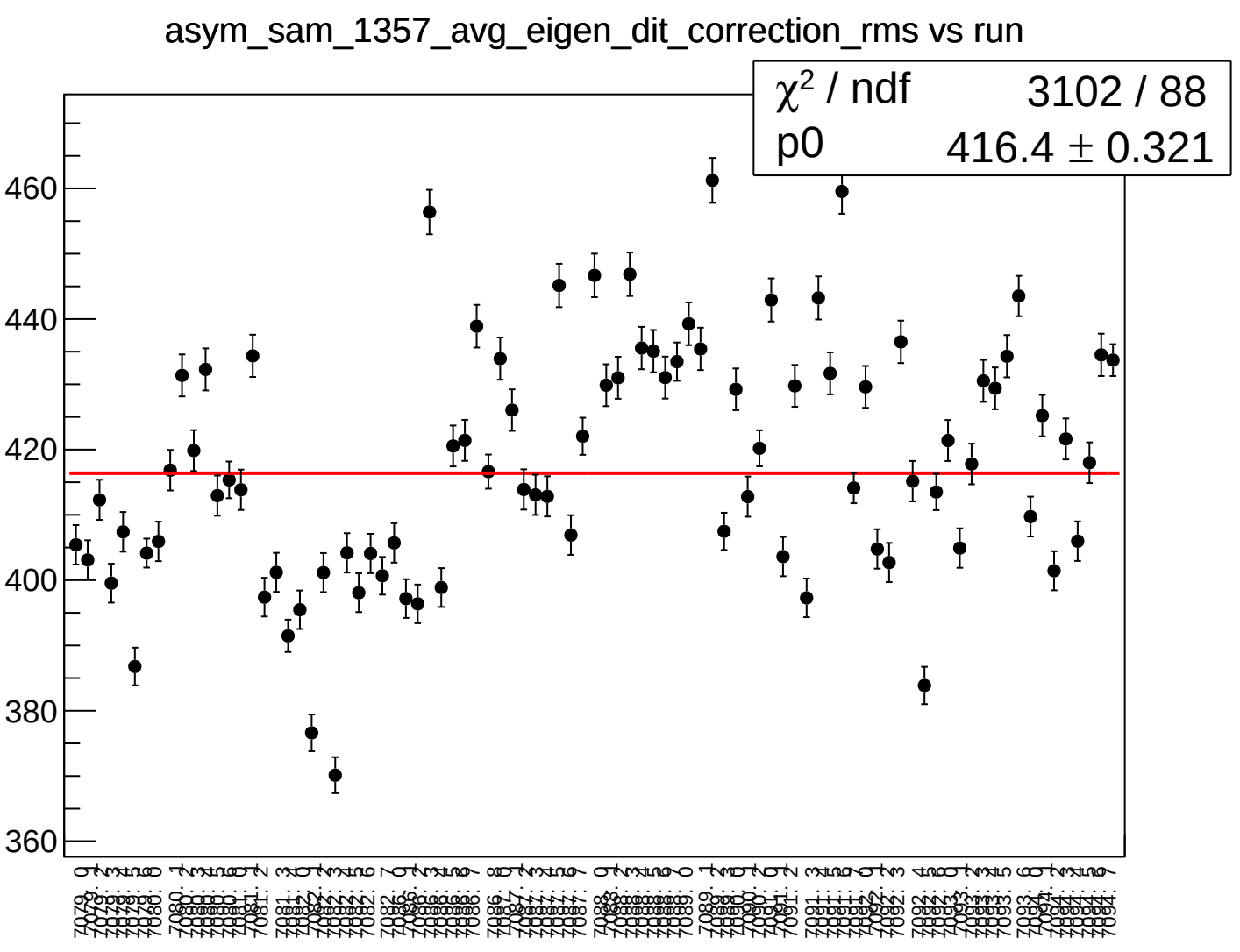

eigen_dit_asym_sam_1357_avg_mean vs run
χ^2 / ndf 75.32 / 88
p0 37.7 ± 62.26
pull
Entries 89
Mean 126
Std Dev 86.83

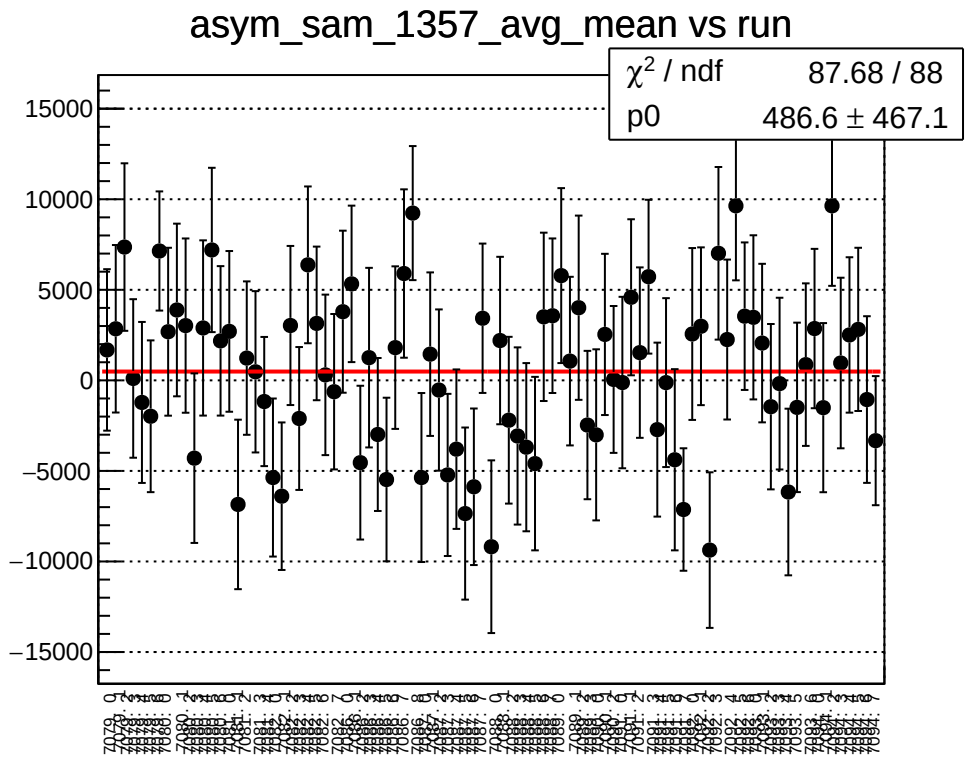

pull1D
Entries 89
Mean 0.005171
Std Dev 0.9199

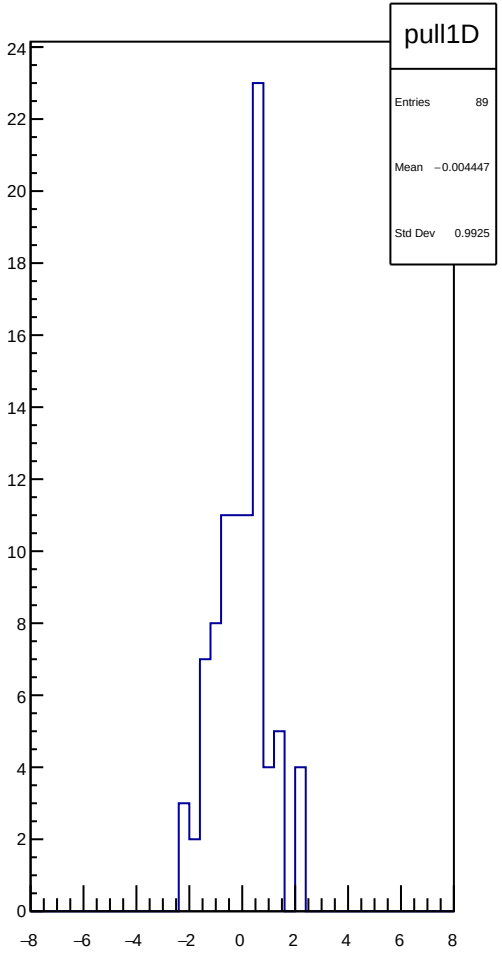

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.088e+04 / 88
p0 56.64 ± 0.04402
100
90
80
70
60
50

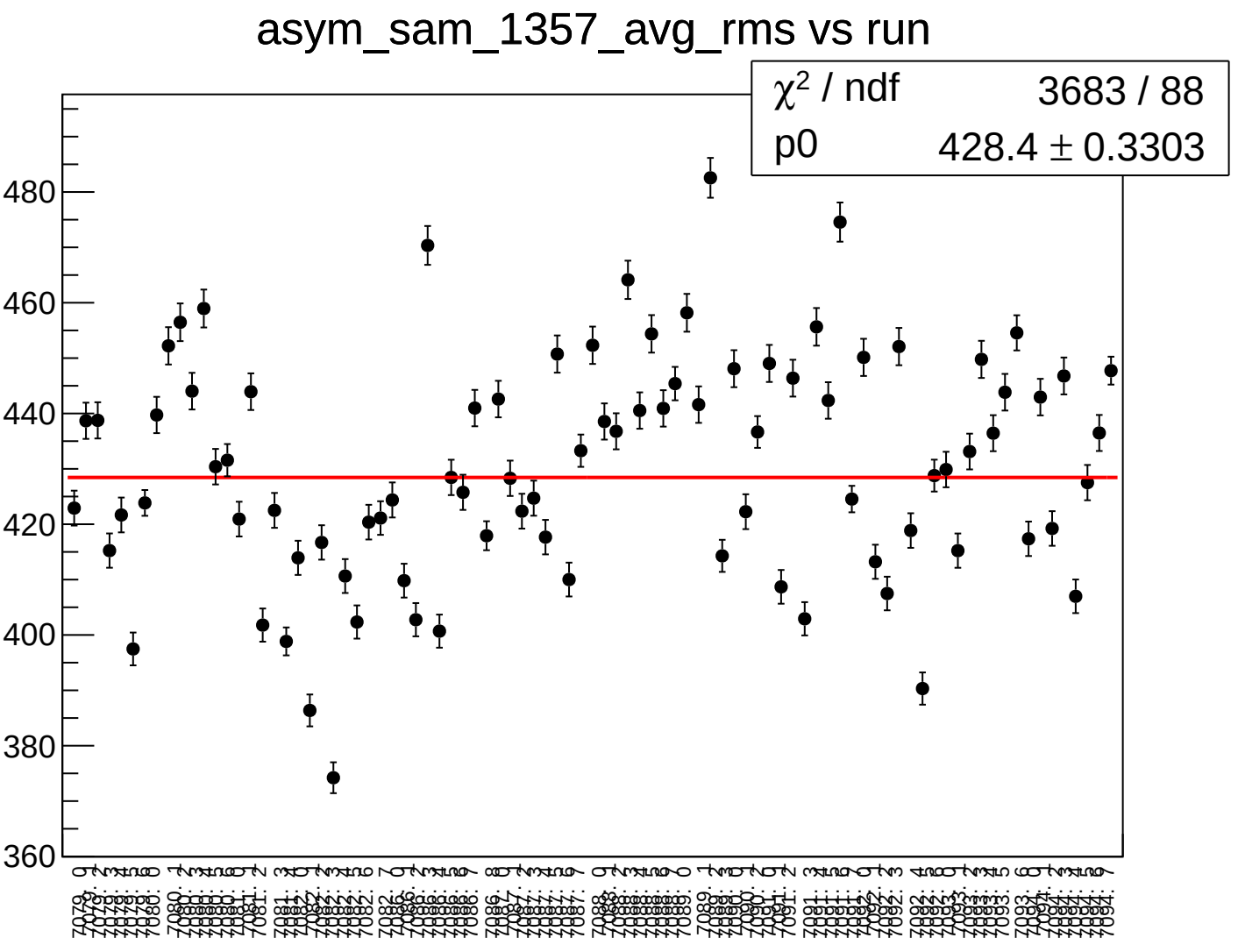

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.48 / 88
p0 −471.7 ± 453.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 190.5
Std Dev 0
2
1
0
−1
−2

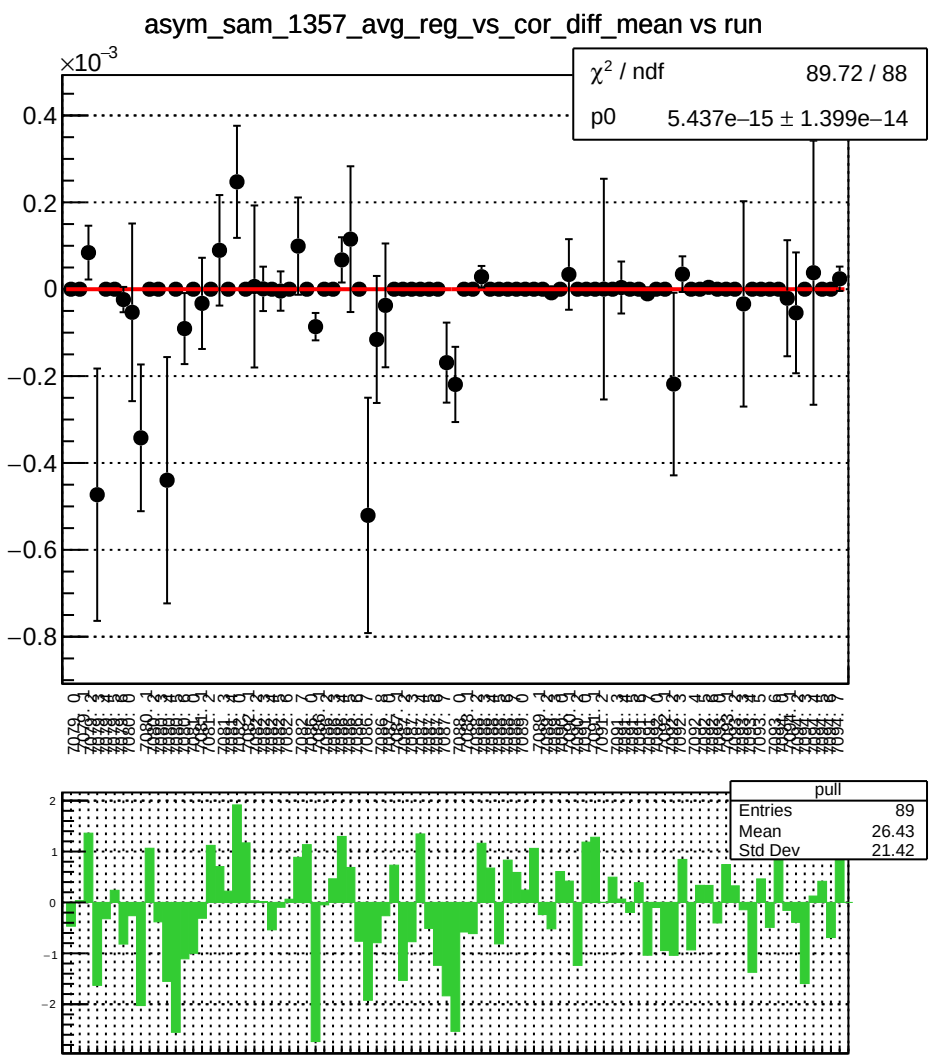

pull1D
Entries 89
Mean 0.007615
Std Dev 0.9971
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

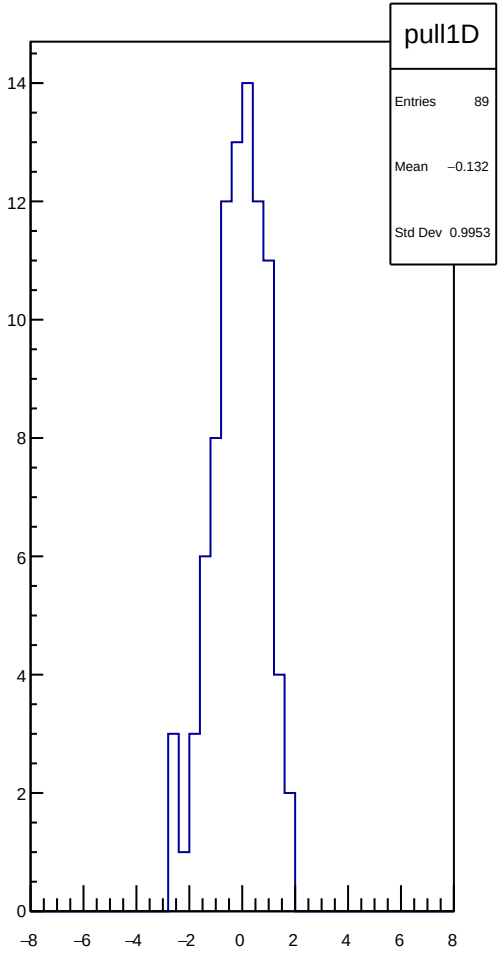

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3102 / 88
p0 416.4 ± 0.321
460
440
420
400
380
360

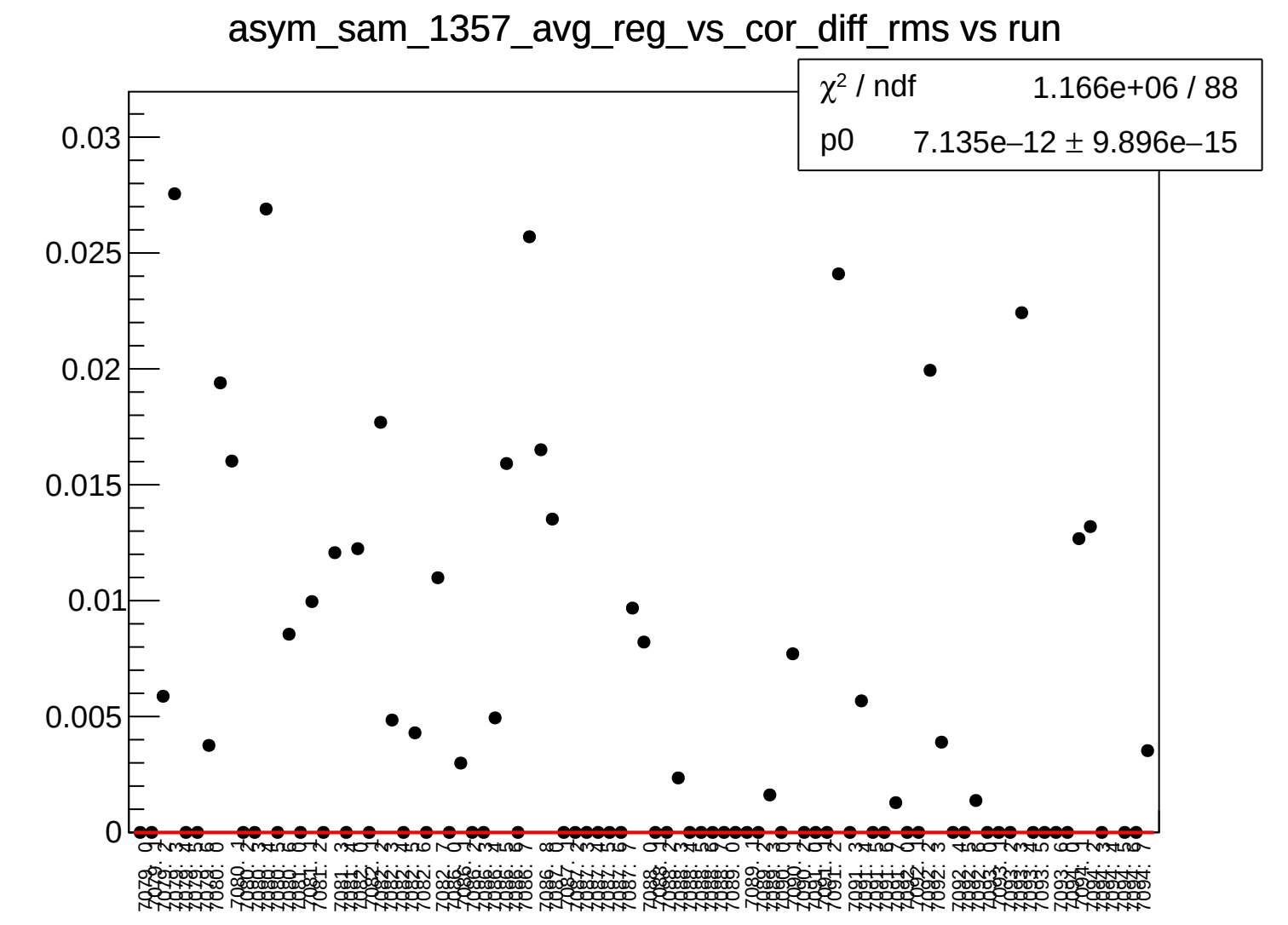

asym_sam_1357_avg_mean vs run
χ² / ndf 87.68 / 88
p0 486.6 ± 467.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 252.2
Std Dev 0
2
1
0
−1
−2

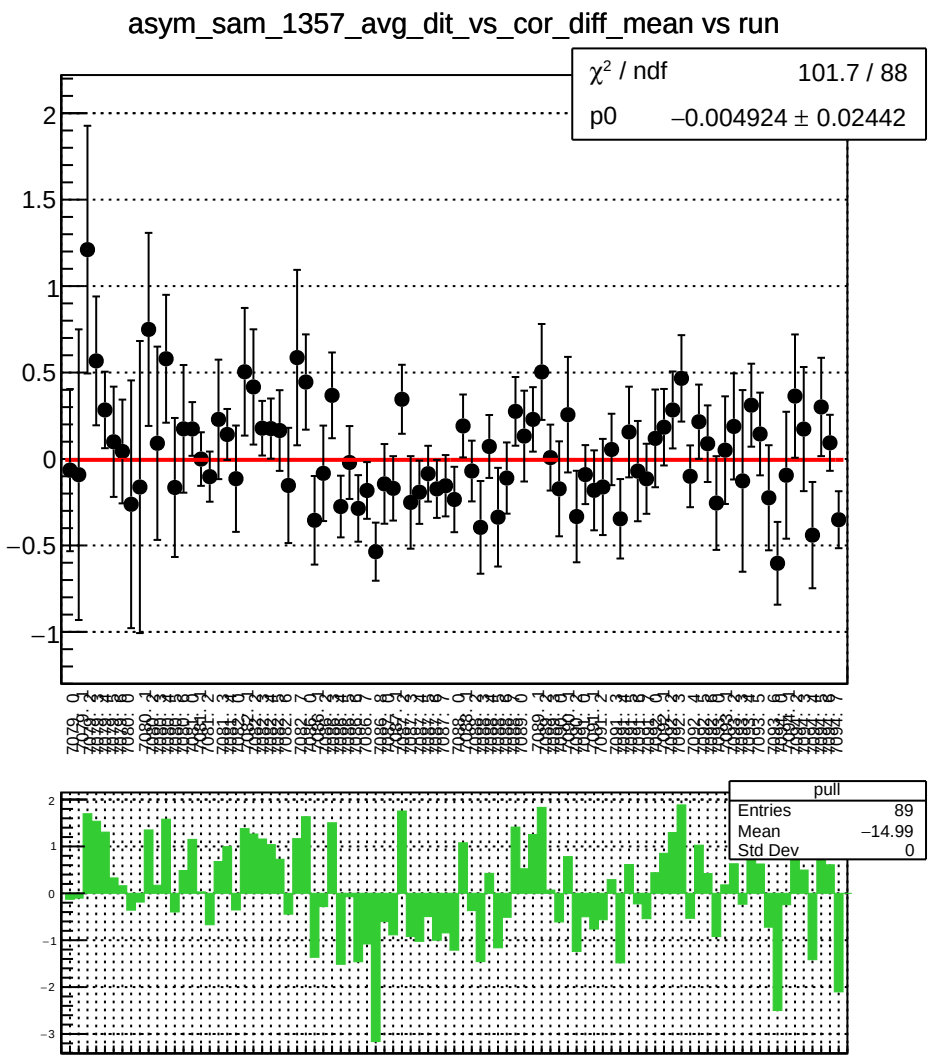

pull1D
Entries 89
Mean −0.004447
Std Dev 0.9925
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

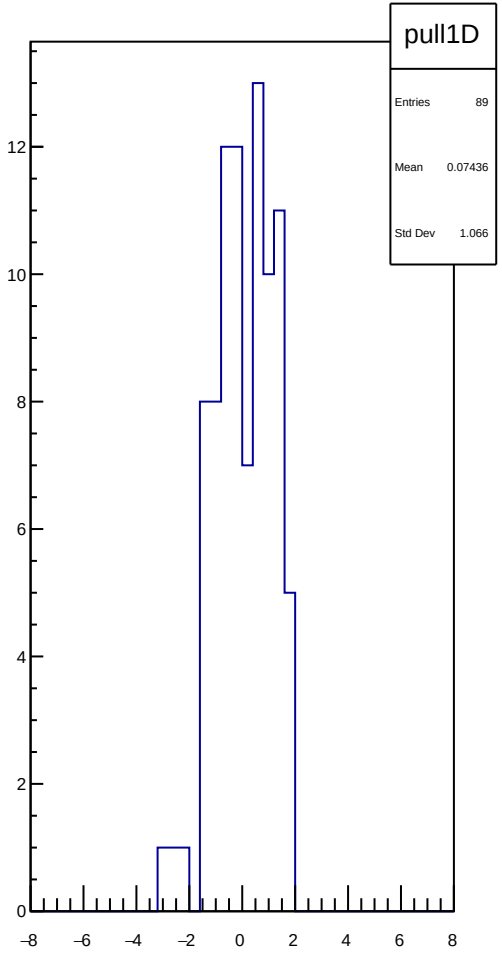

asym_sam_1357_avg_rms vs run
χ² / ndf 3683 / 88
p0 428.4 ± 0.3303
480
460
440
420
400
380
360

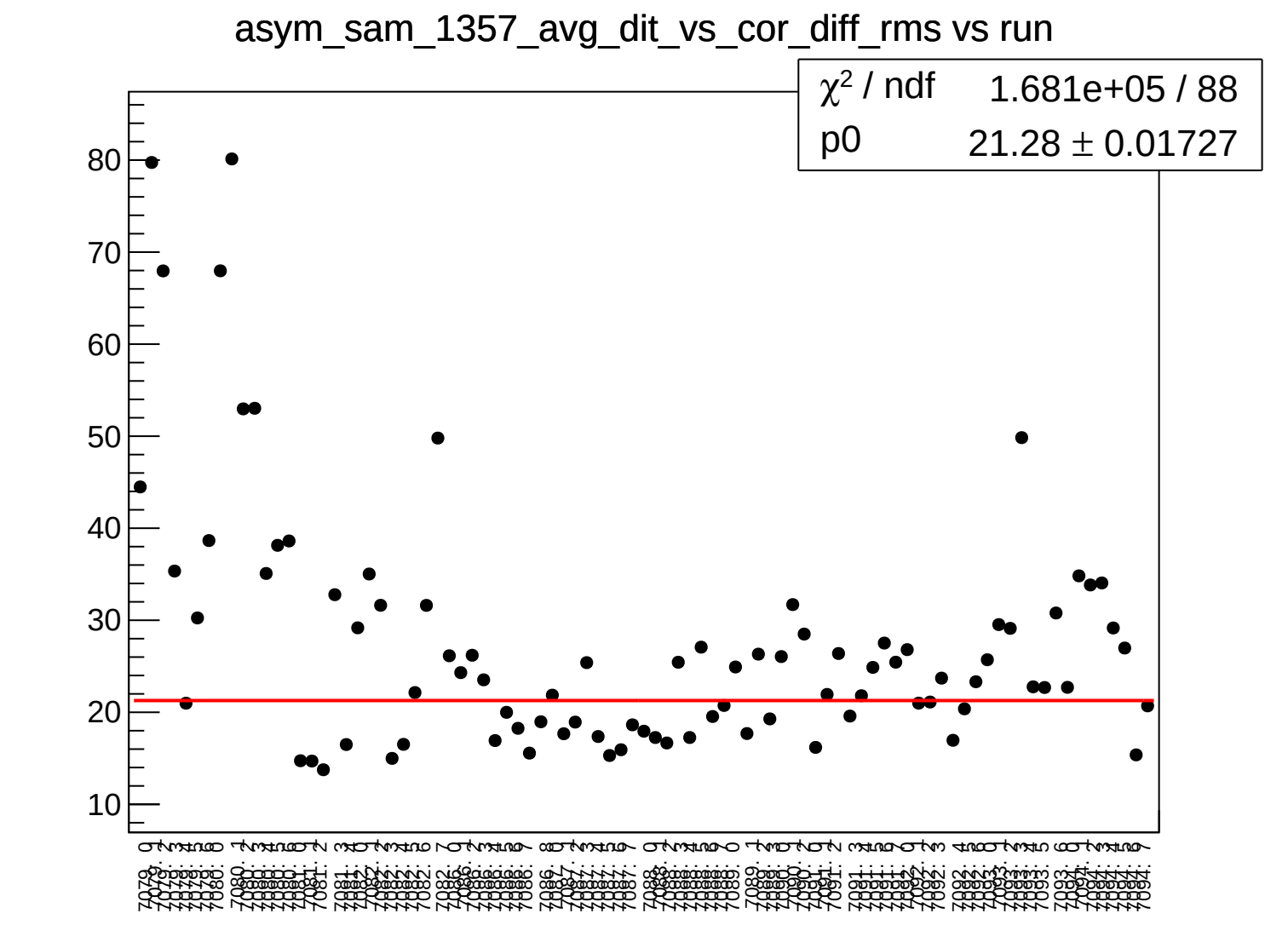

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 89.72 / 88
p0 5.437e−15 ± 1.399e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 89
Mean 26.43
Std Dev 21.42
2
1
0
−1
−2

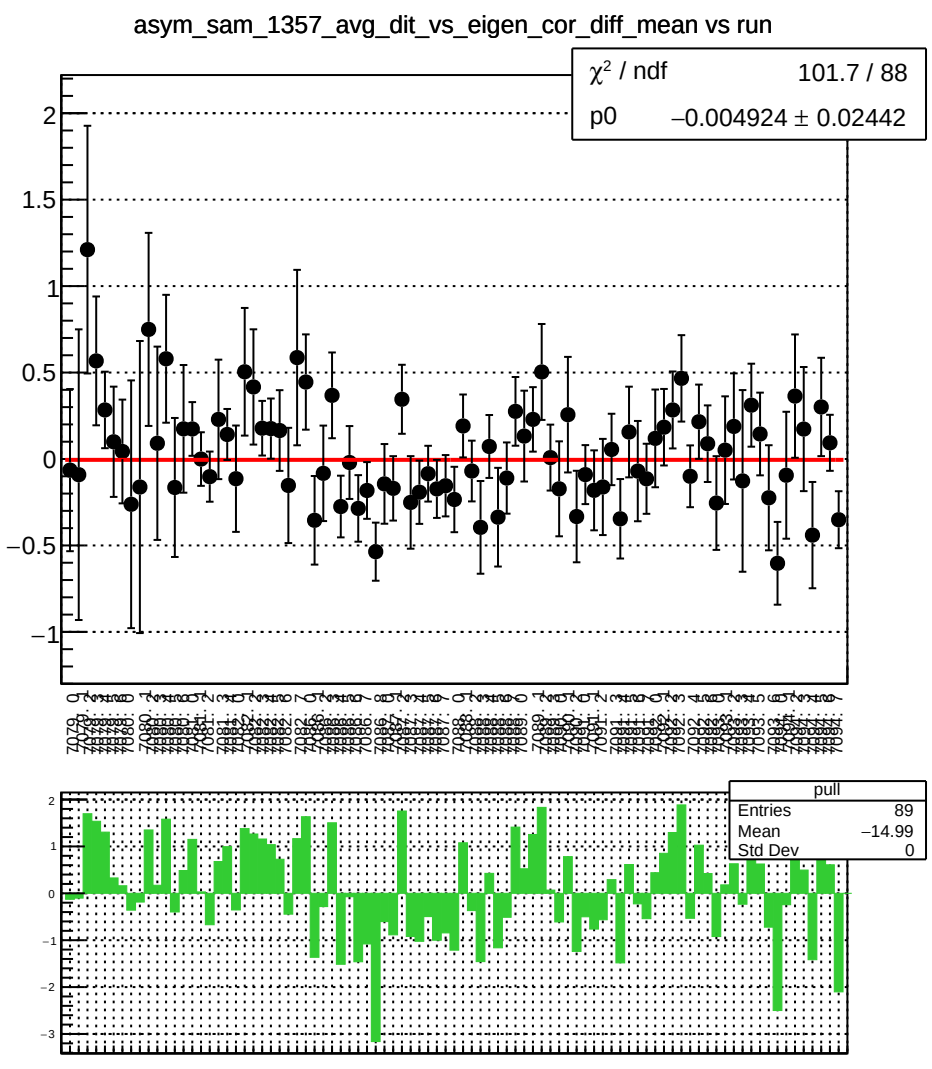

pull1D
Entries 89
Mean −0.132
Std Dev 0.9953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

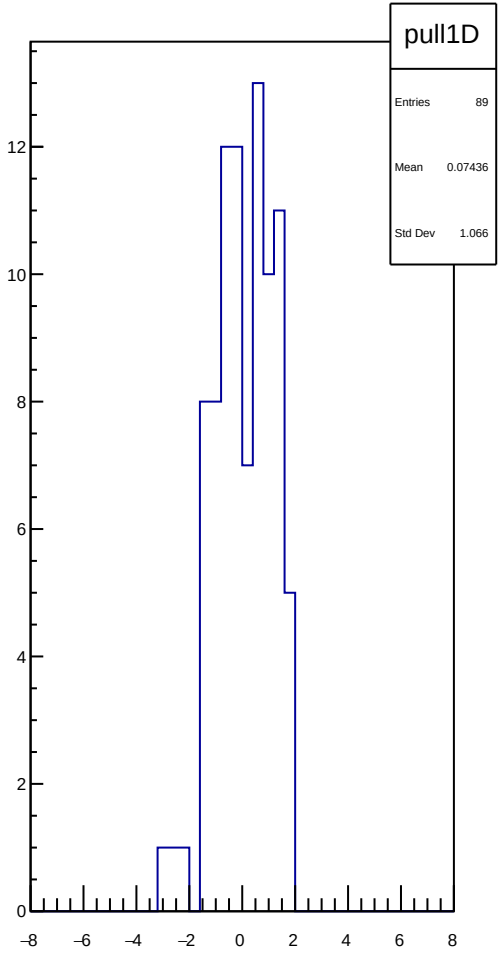

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.166e+06 / 88
p0 7.135e−12 ± 9.896e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

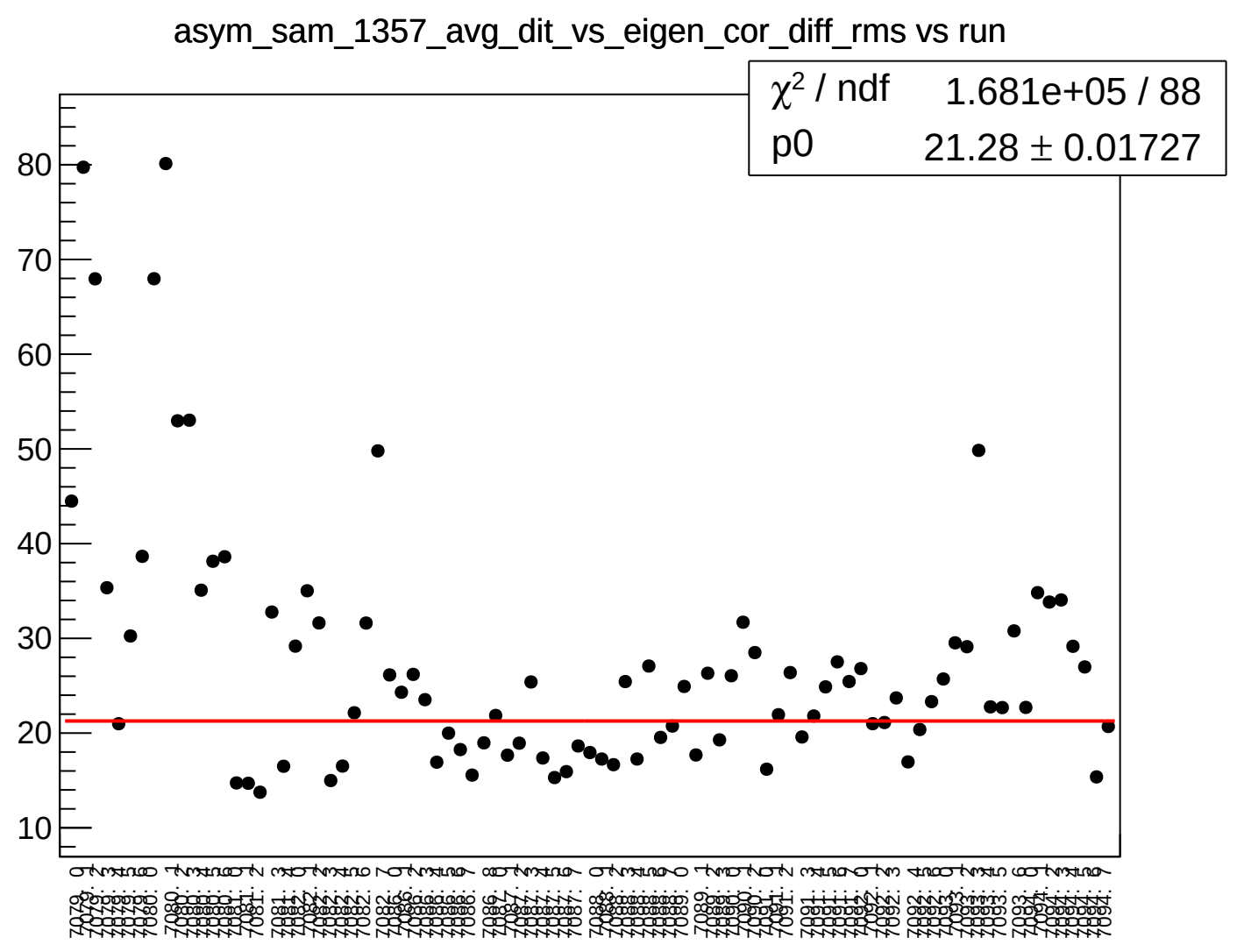

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 −0.004924 ± 0.02442
pull
Entries 89
Mean −14.99
Std Dev 0

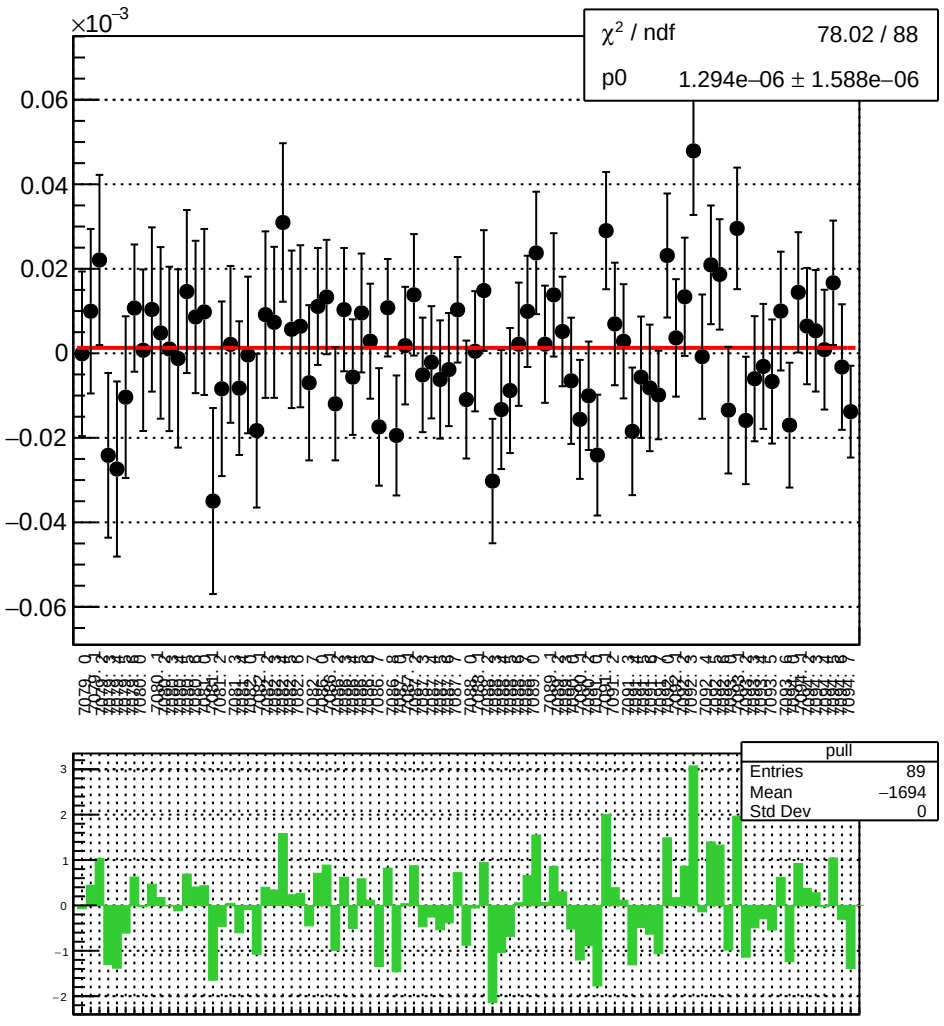

pull1D
Entries 89
Mean 0.07436
Std Dev 1.066

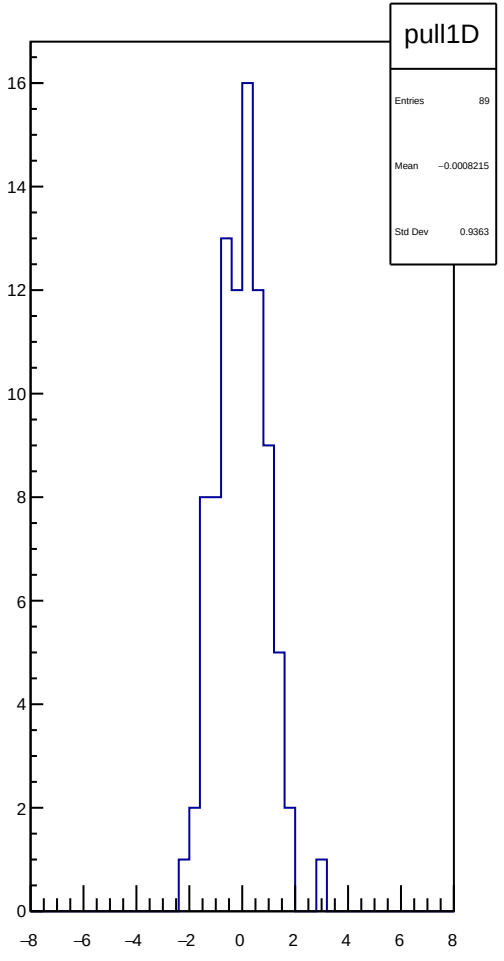

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.681e+05 / 88
p0 21.28 ± 0.01727
80
70
60
50
40
30
20
10

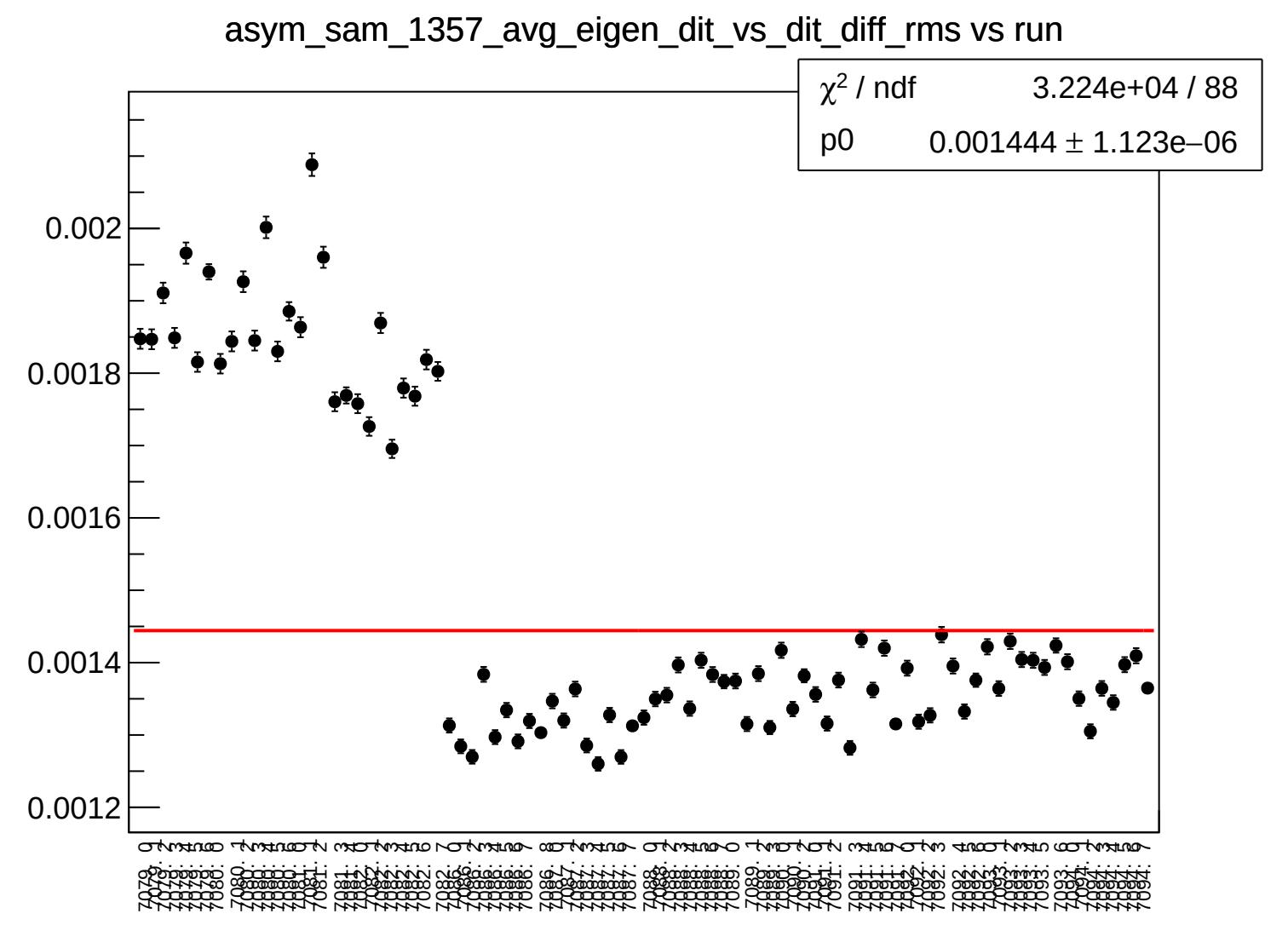

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 −0.004924 ± 0.02442
pull
Entries 89
Mean −14.99
Std Dev 0

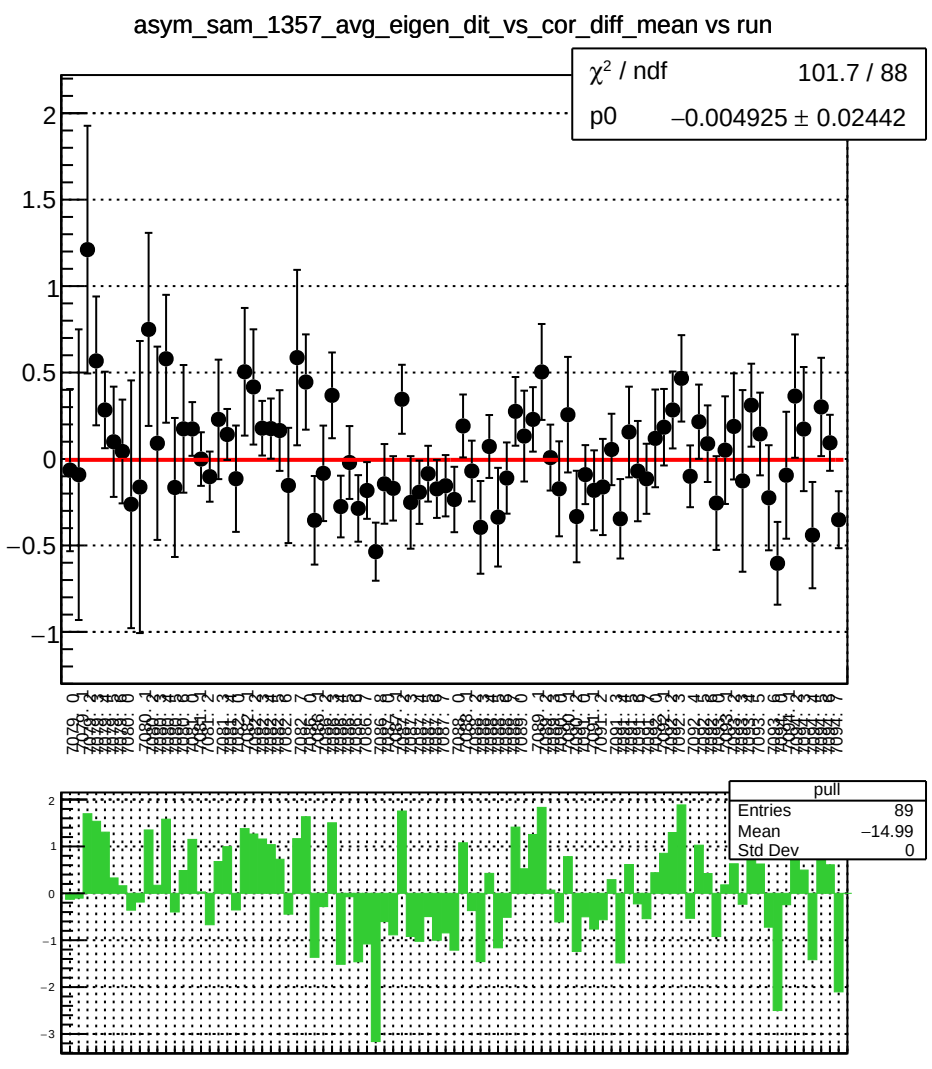

pull1D
Entries 89
Mean 0.07436
Std Dev 1.066

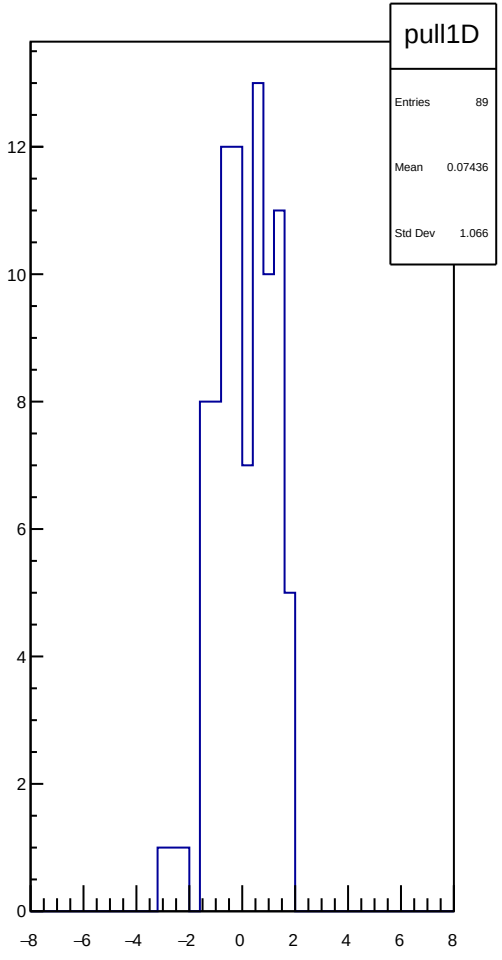

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.681e+05 / 88
p0 21.28 ± 0.01727
80
70
60
50
40
30
20
10

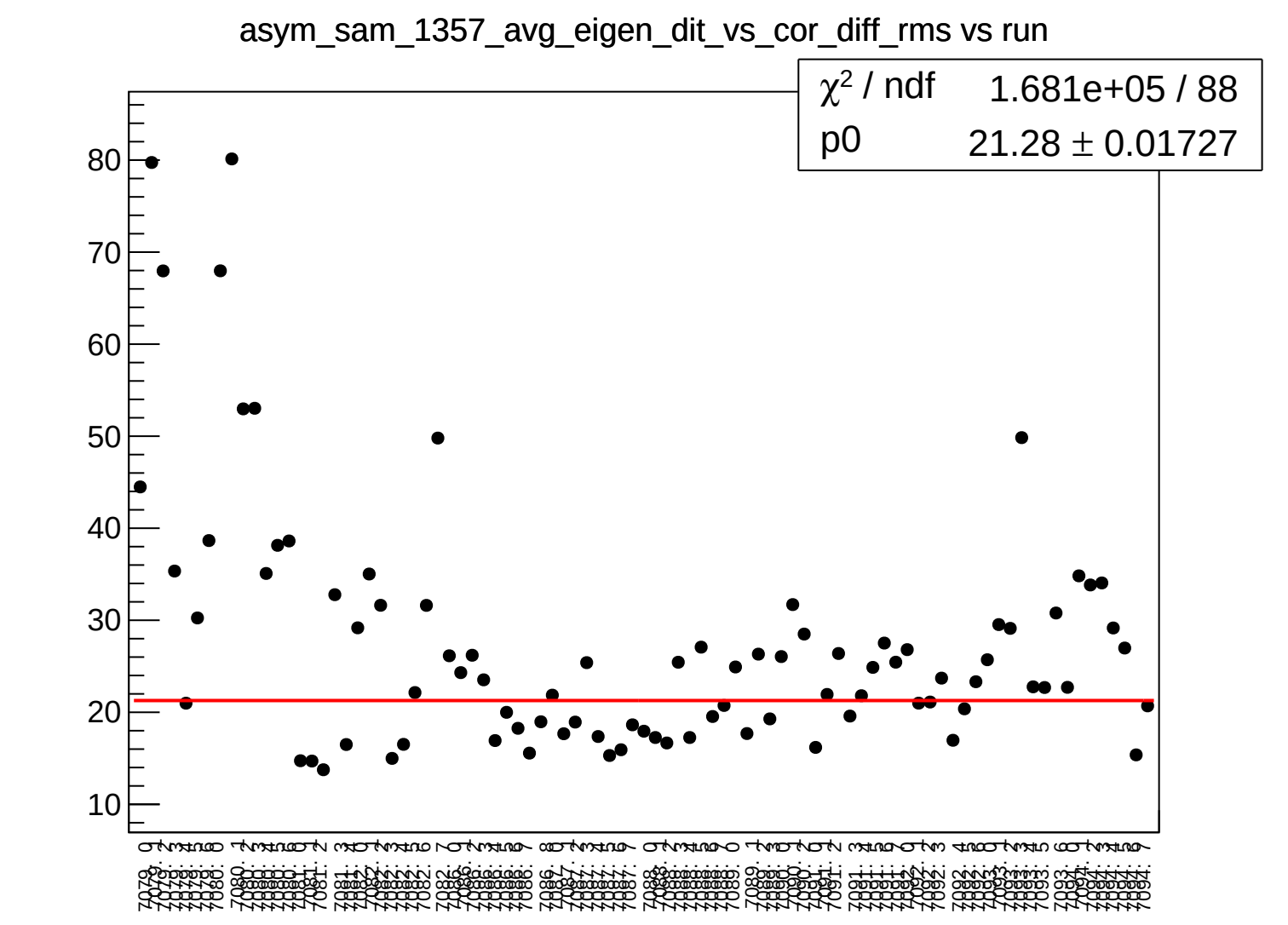

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.02 / 88
p0 1.294e−06 ± 1.588e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −1694
Std Dev 0
3
2
1
0
−1
−2

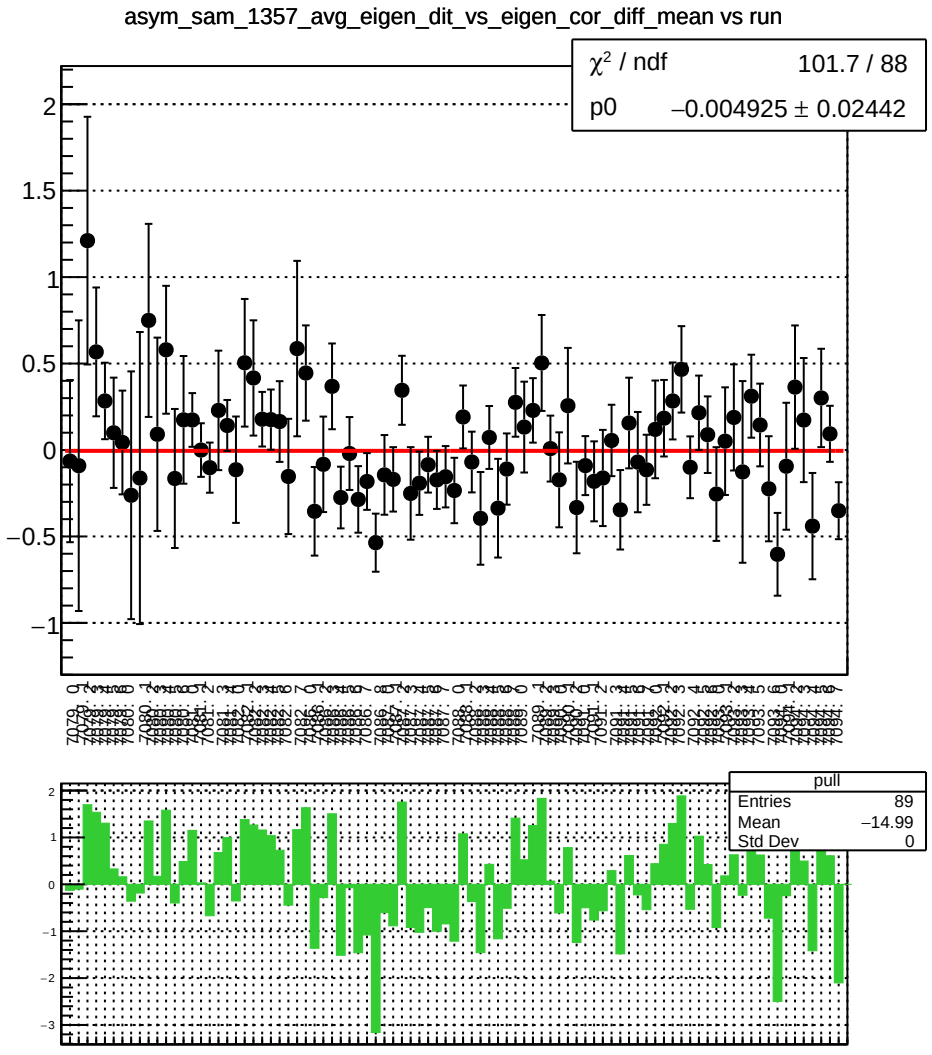

pull1D
Entries 89
Mean −0.0008215
Std Dev 0.9363
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

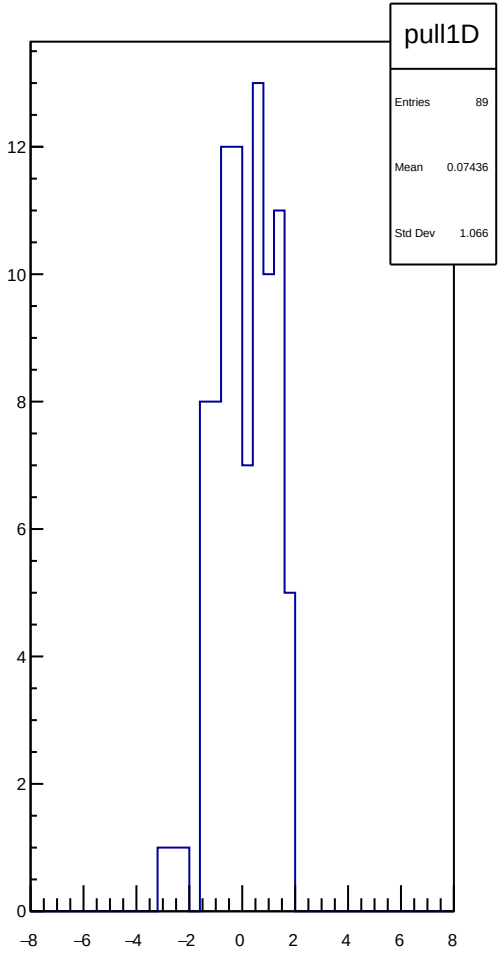

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.224e+04 / 88
p0 0.001444 ± 1.123e−06
0.002
0.0018
0.0016
0.0014
0.0012

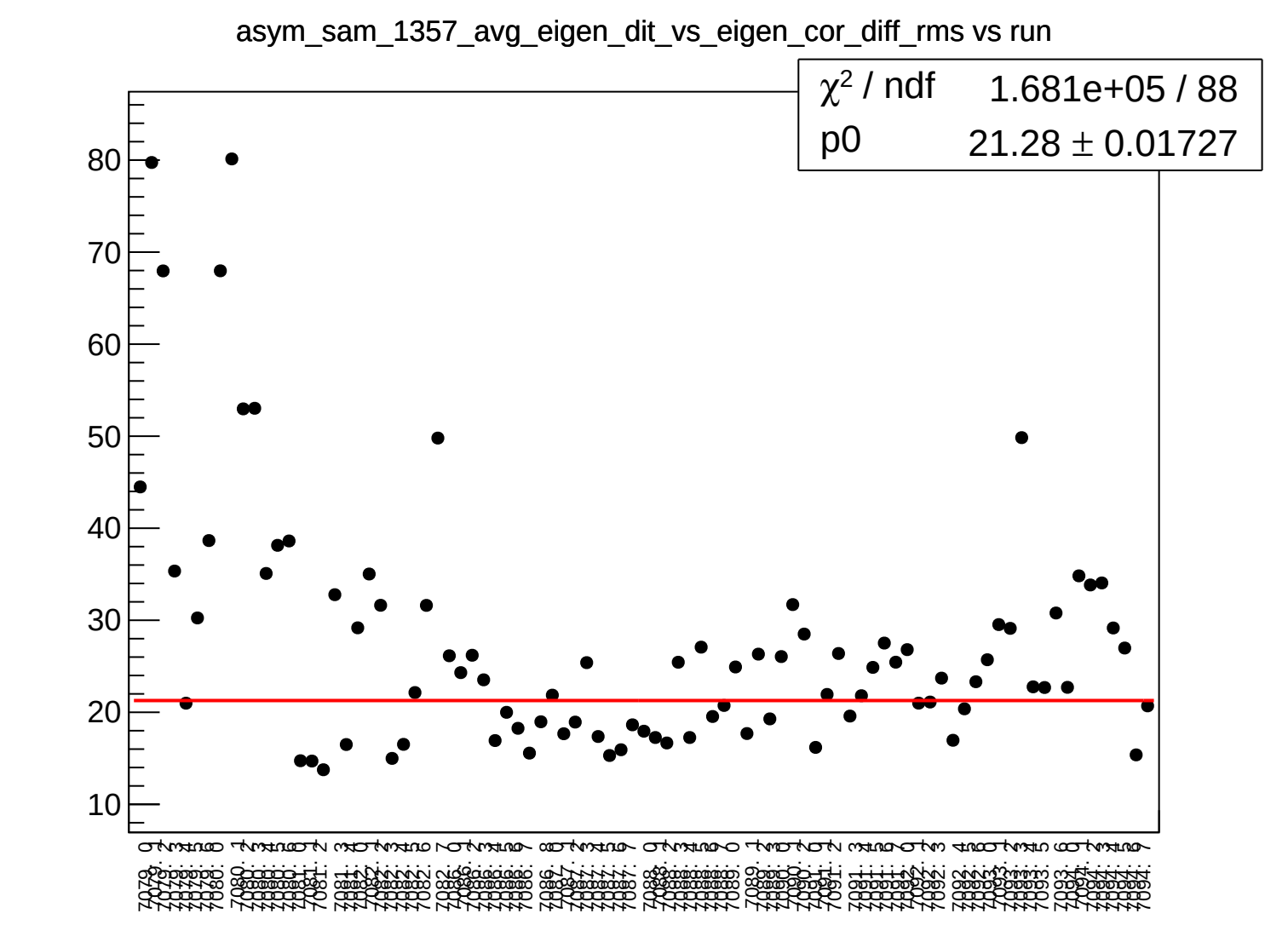

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 −0.004925 ± 0.02442
pull
Entries 89
Mean −14.99
Std Dev 0

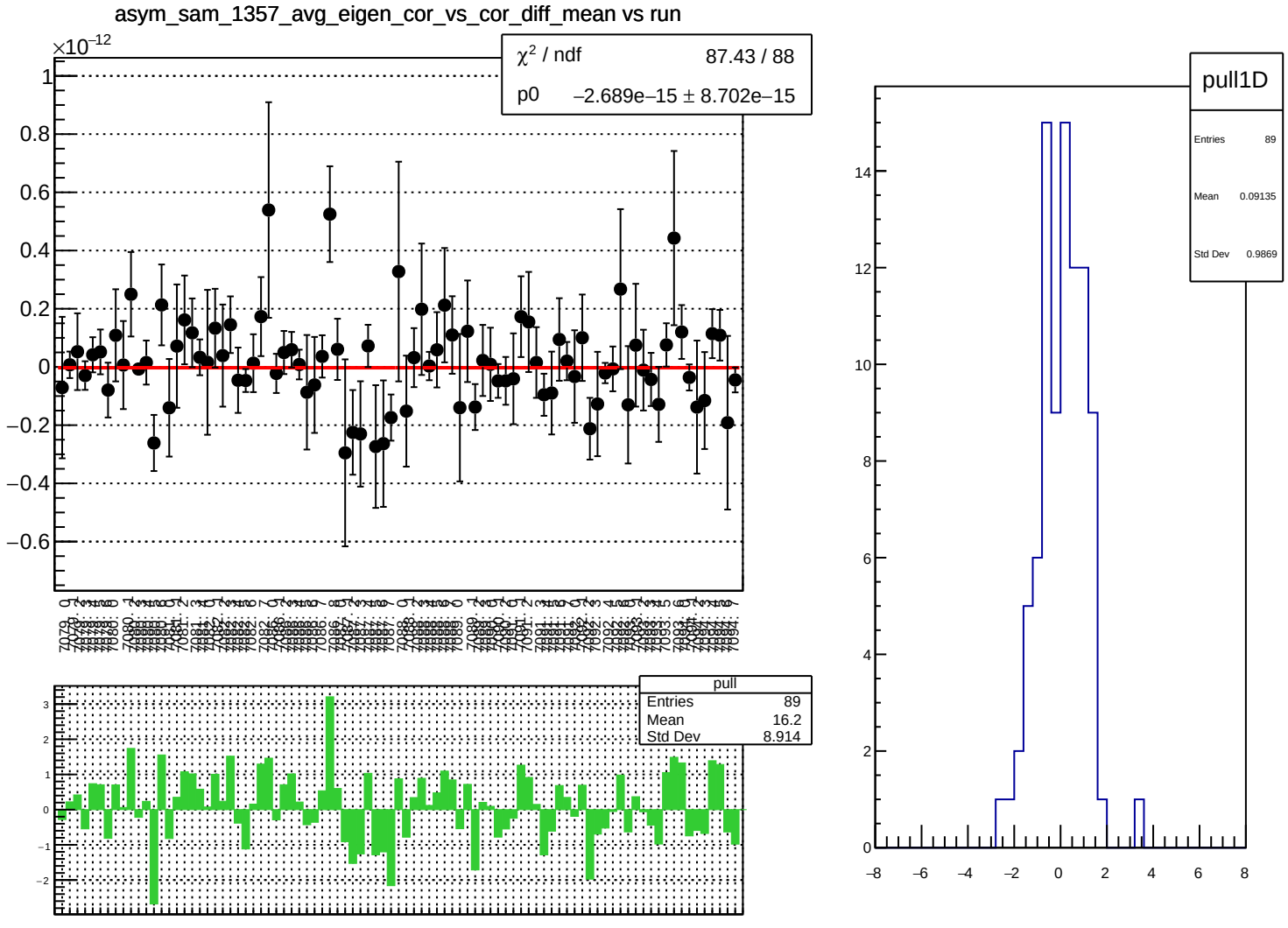

pull1D
Entries 89
Mean 0.07436
Std Dev 1.066

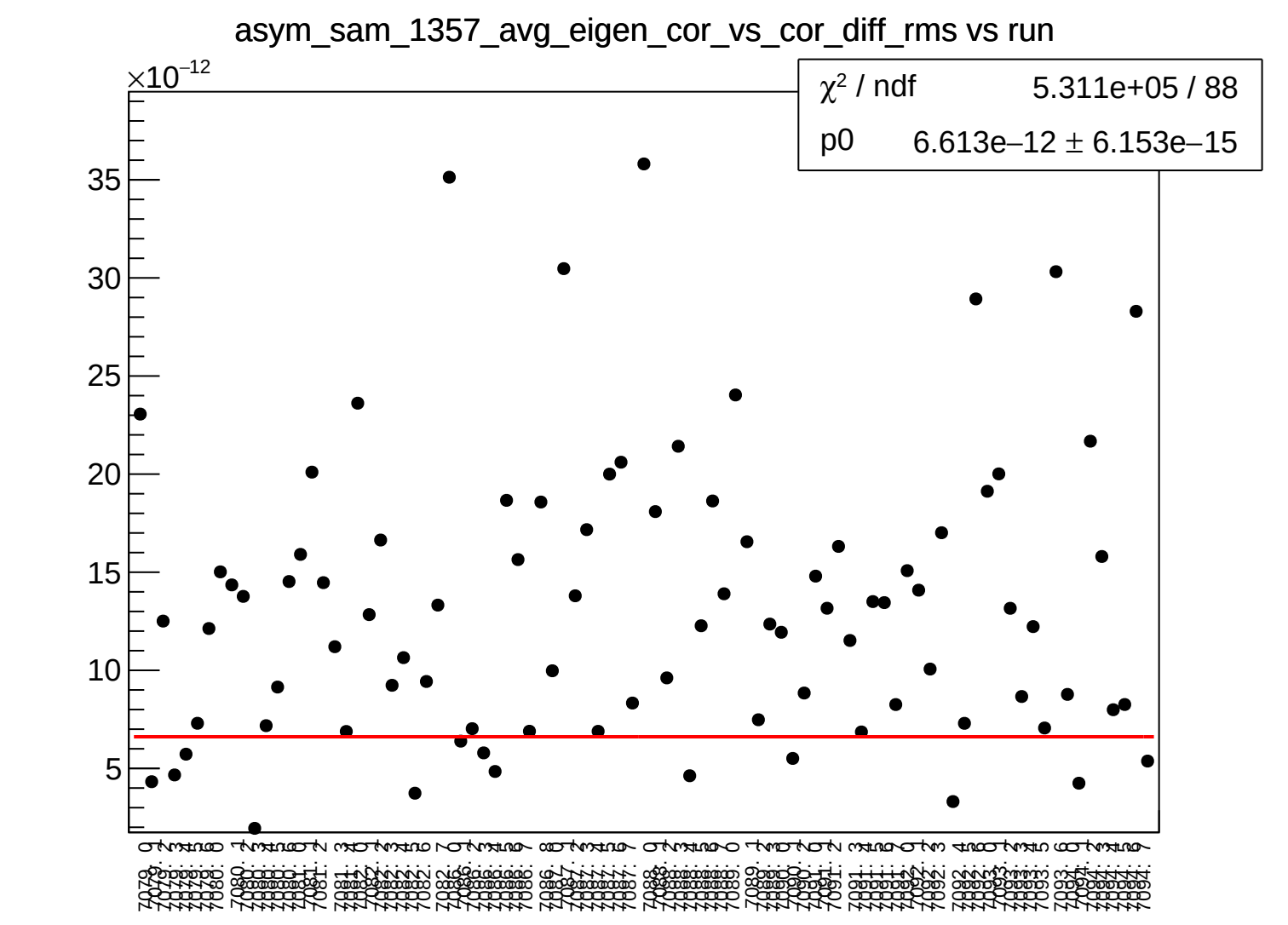

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.681e+05 / 88
p0 21.28 ± 0.01727
80
70
60
50
40
30
20
10

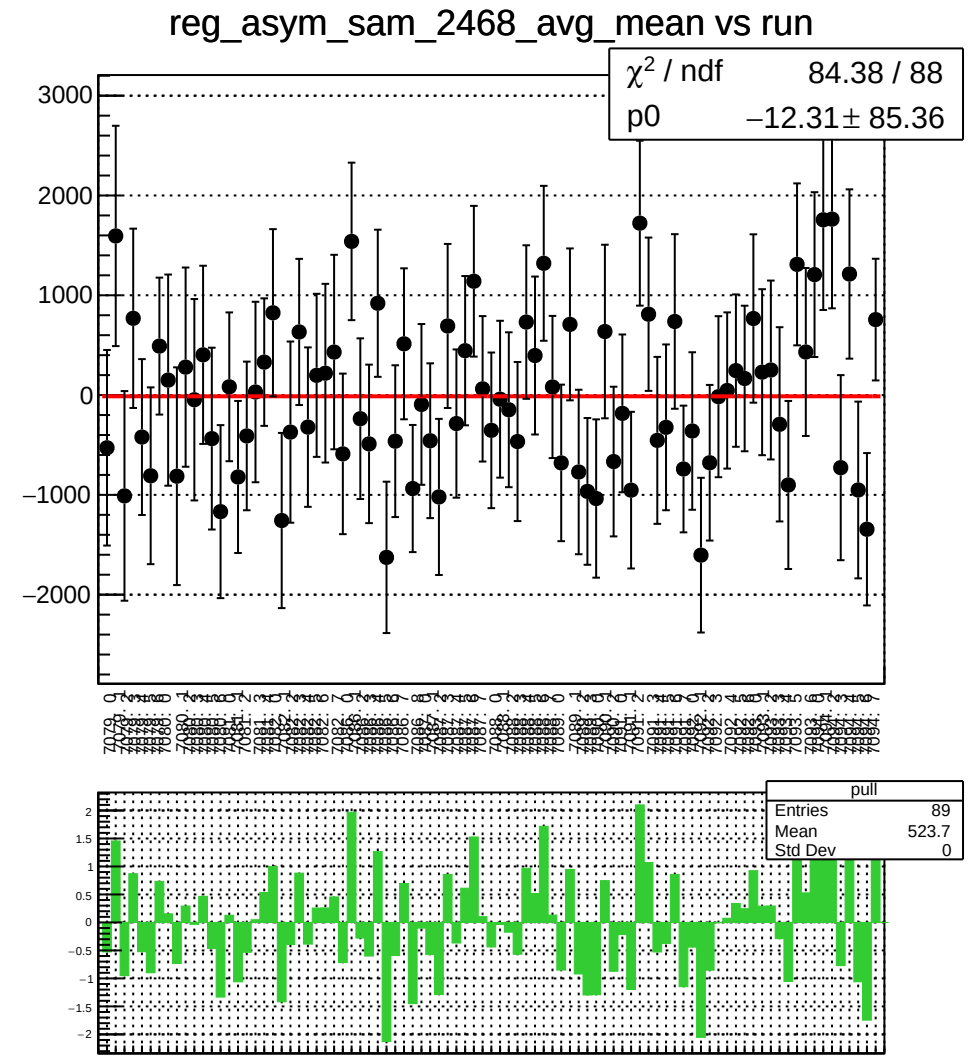

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 −0.004925 ± 0.02442
pull
Entries 89
Mean −14.99
Std Dev 0

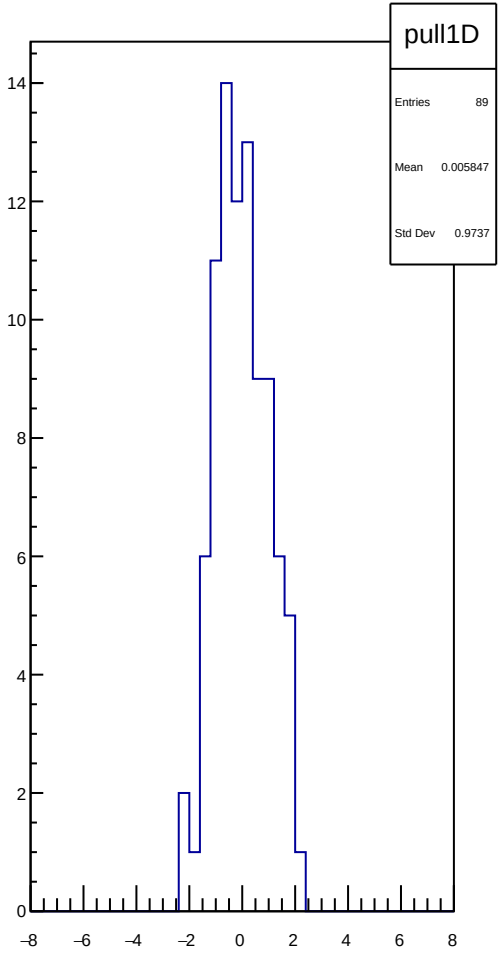

pull1D
Entries 89
Mean 0.07436
Std Dev 1.066

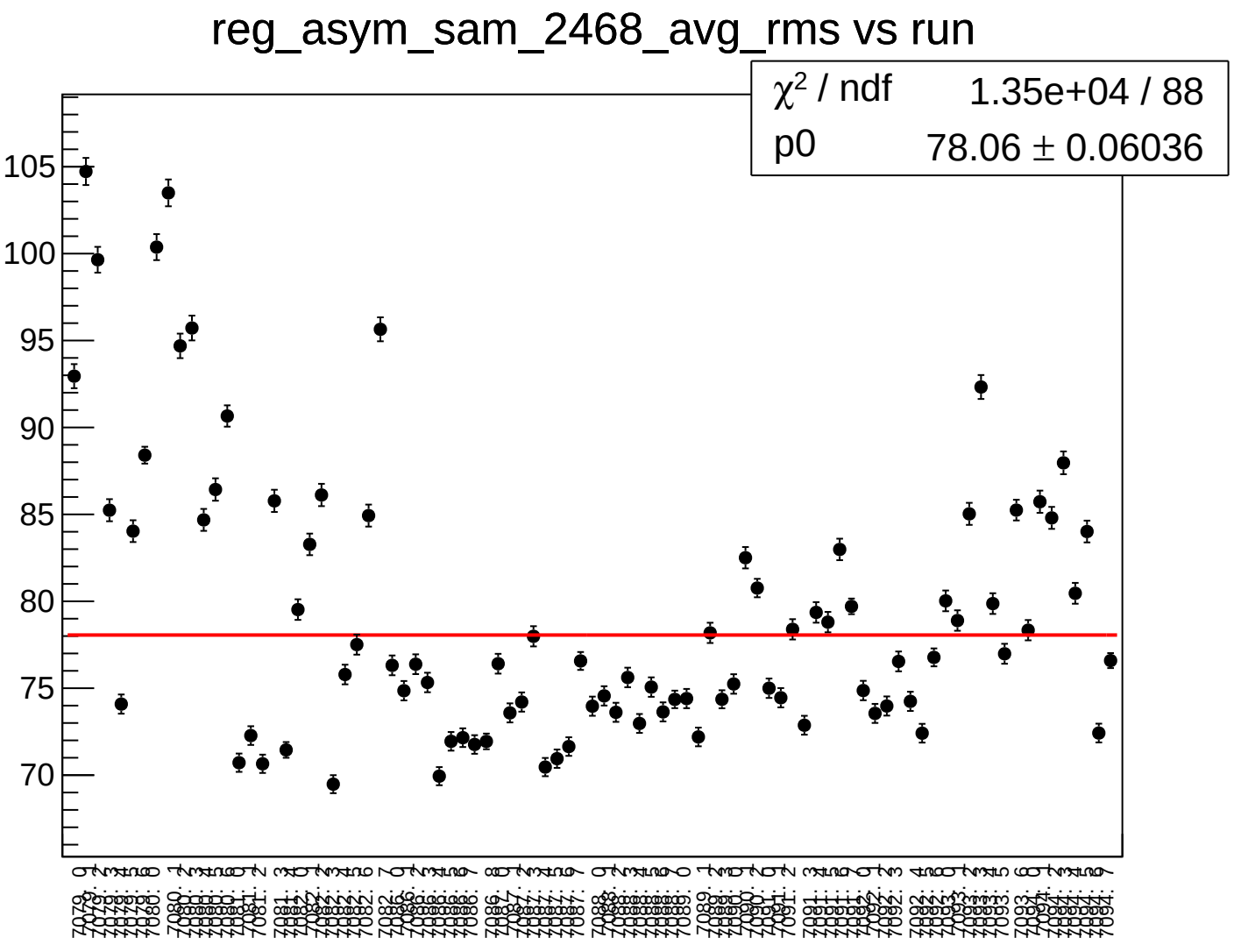

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.681e+05 / 88
p0 21.28 ± 0.01727
80
70
60
50
40
30
20
10

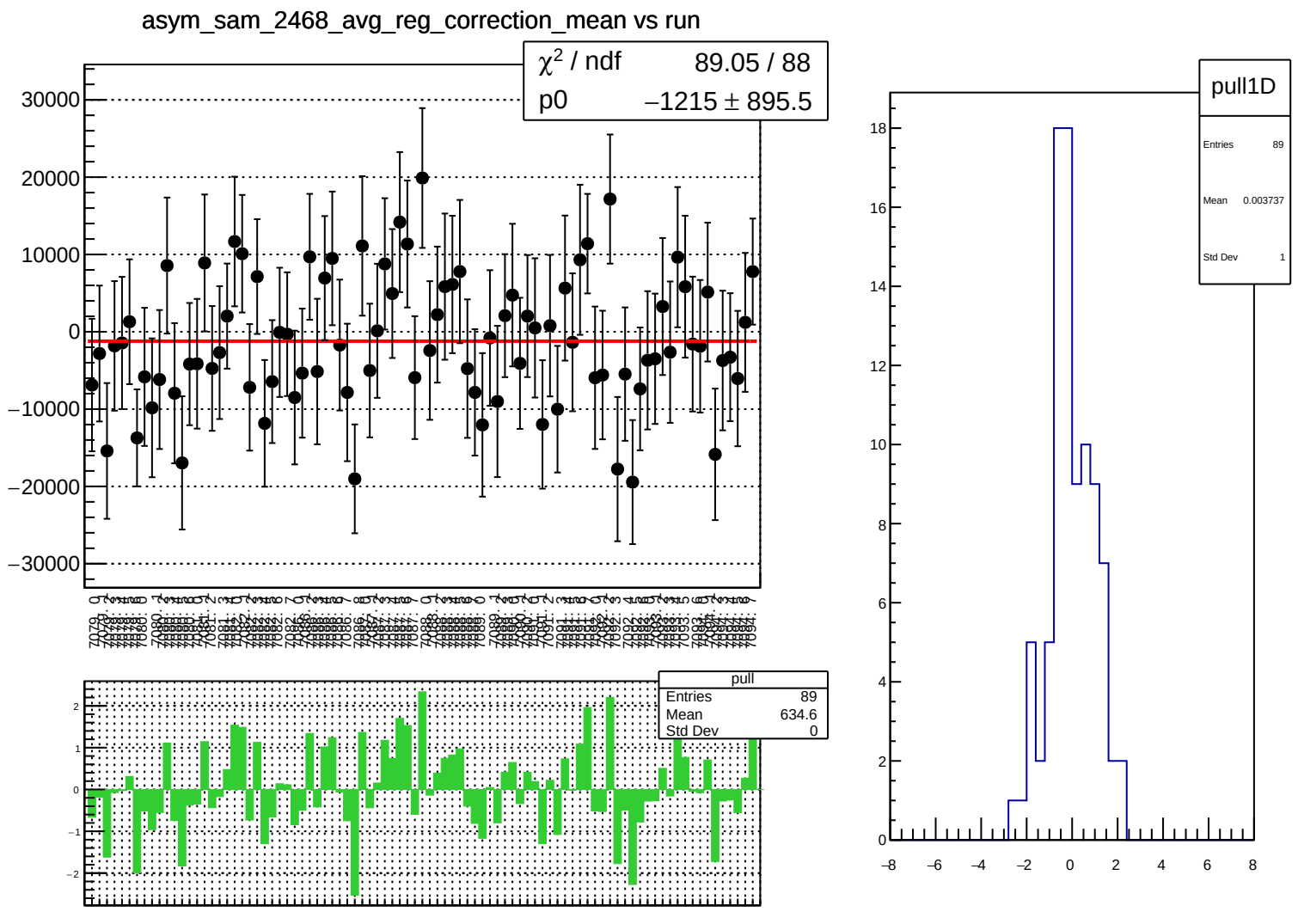

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.43 / 88
p0 −2.689e−15 ± 8.702e−15
pull
Entries 89
Mean 16.2
Std Dev 8.914
pull1D
Entries 89
Mean 0.09135
Std Dev 0.9869

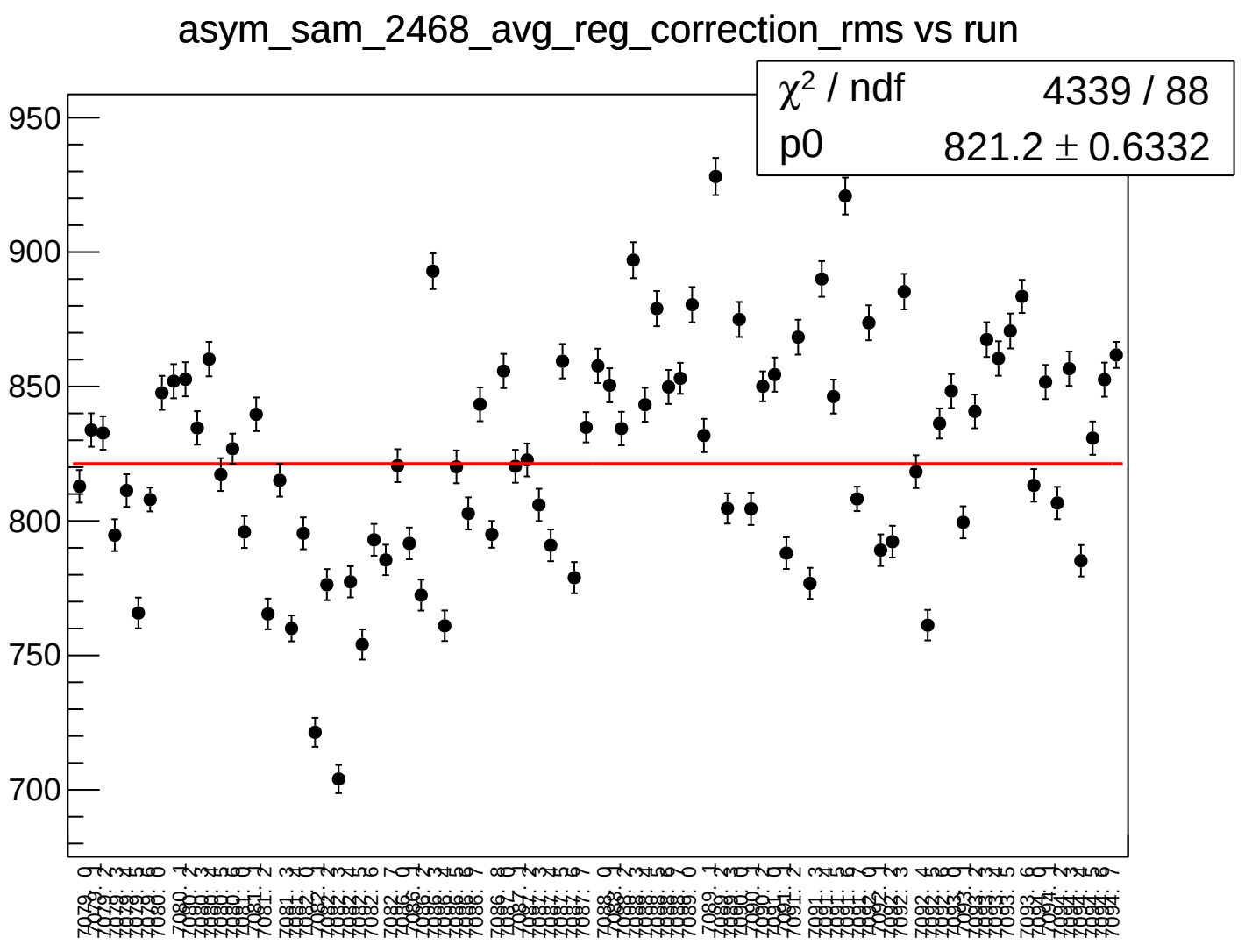

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.311e+05 / 88
p0 6.613e−12 ± 6.153e−15
35
30
25
20
15
10
5

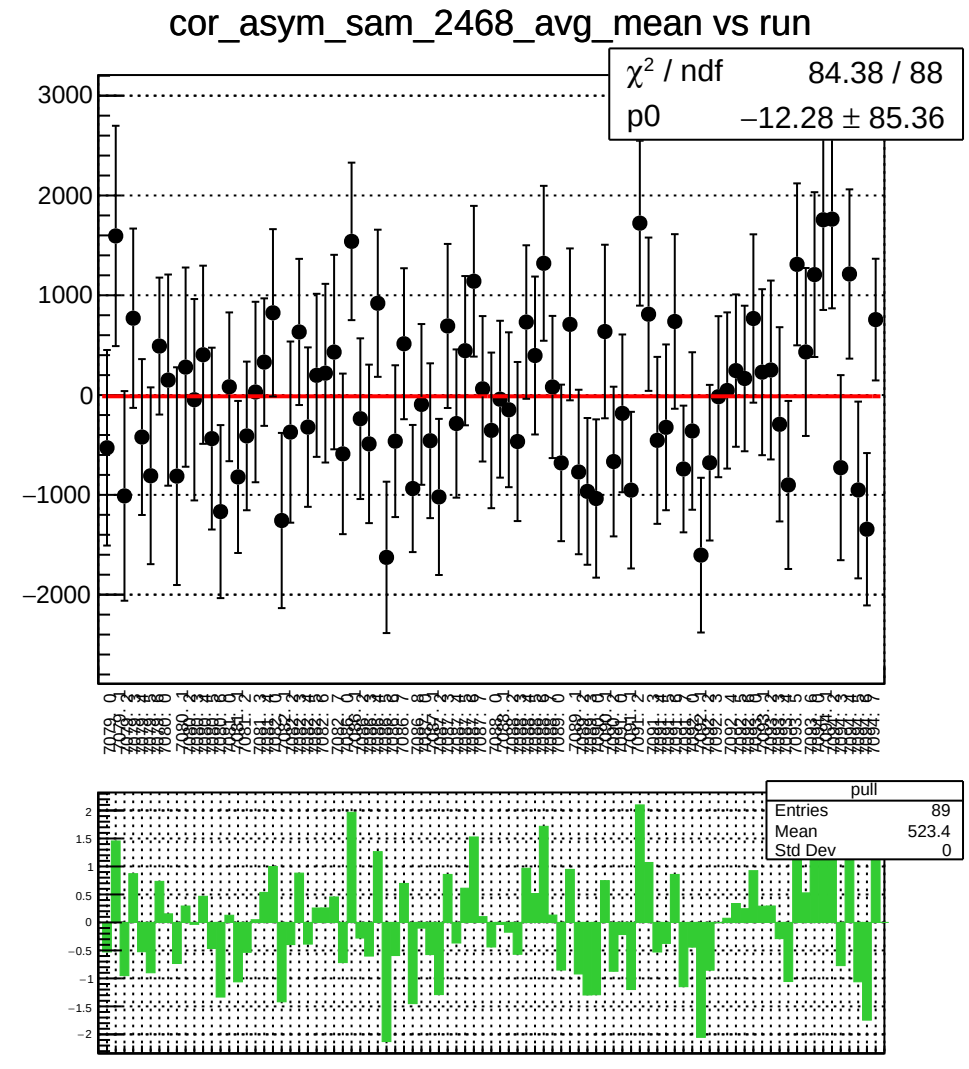

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 84.38 / 88
p0 −12.31 ± 85.36
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 523.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

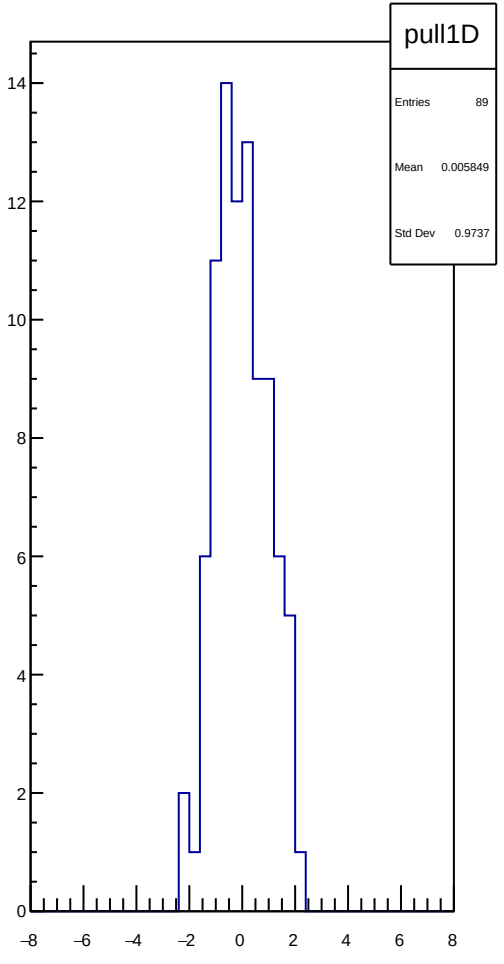

pull1D
Entries 89
Mean 0.005847
Std Dev 0.9737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

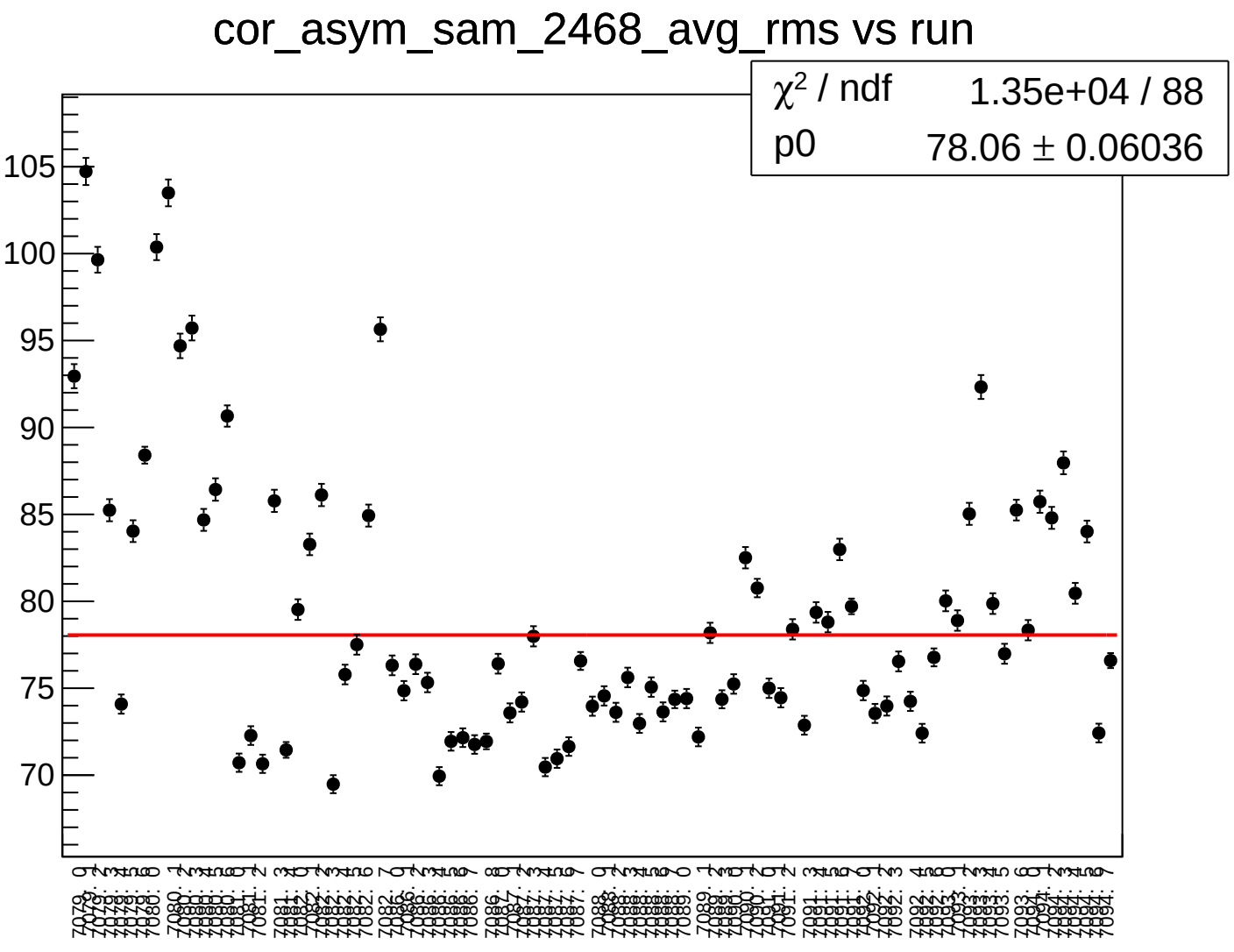

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.35e+04 / 88
p0 78.06 ± 0.06036
105
100
95
90
85
80
75
70

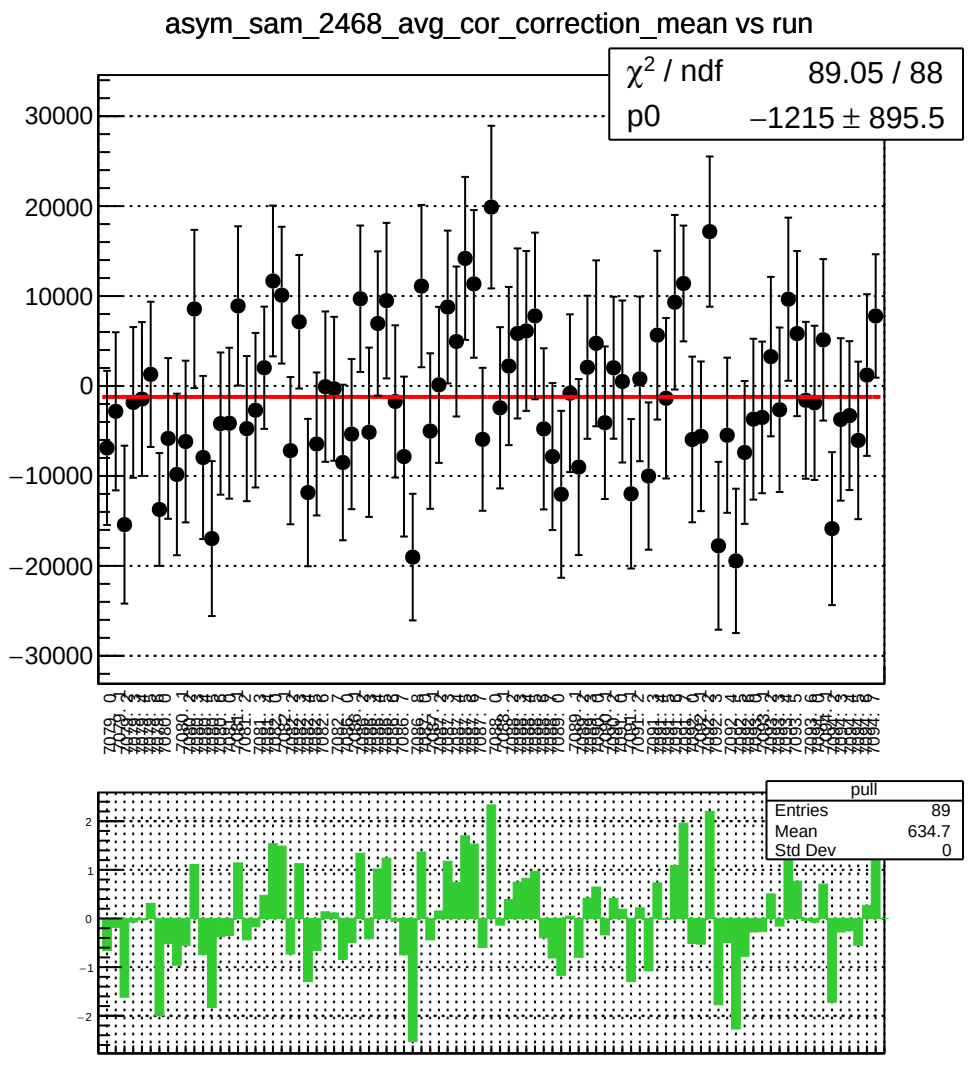

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 89.05 / 88
p0 −1215 ± 895.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 634.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.003737
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

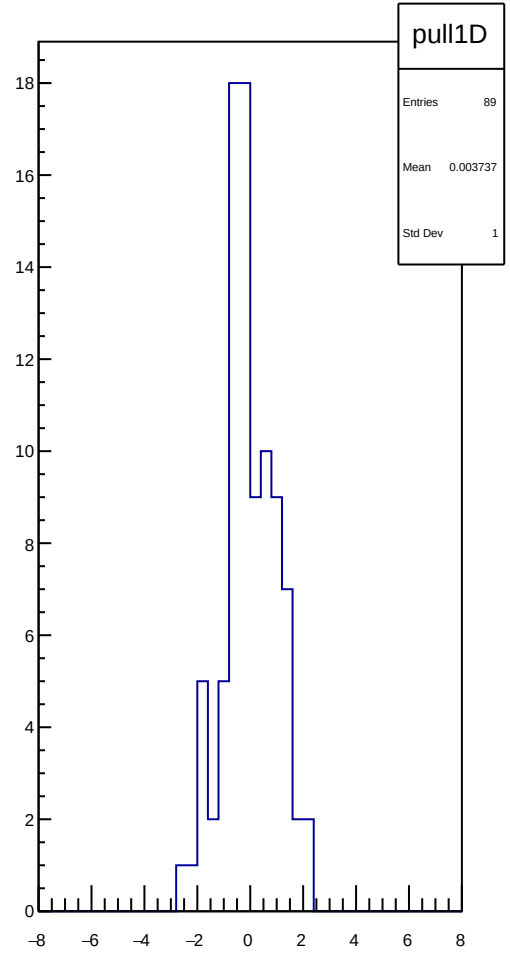

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 4339 / 88
p0 821.2 ± 0.6332
950
900
850
800
750
700

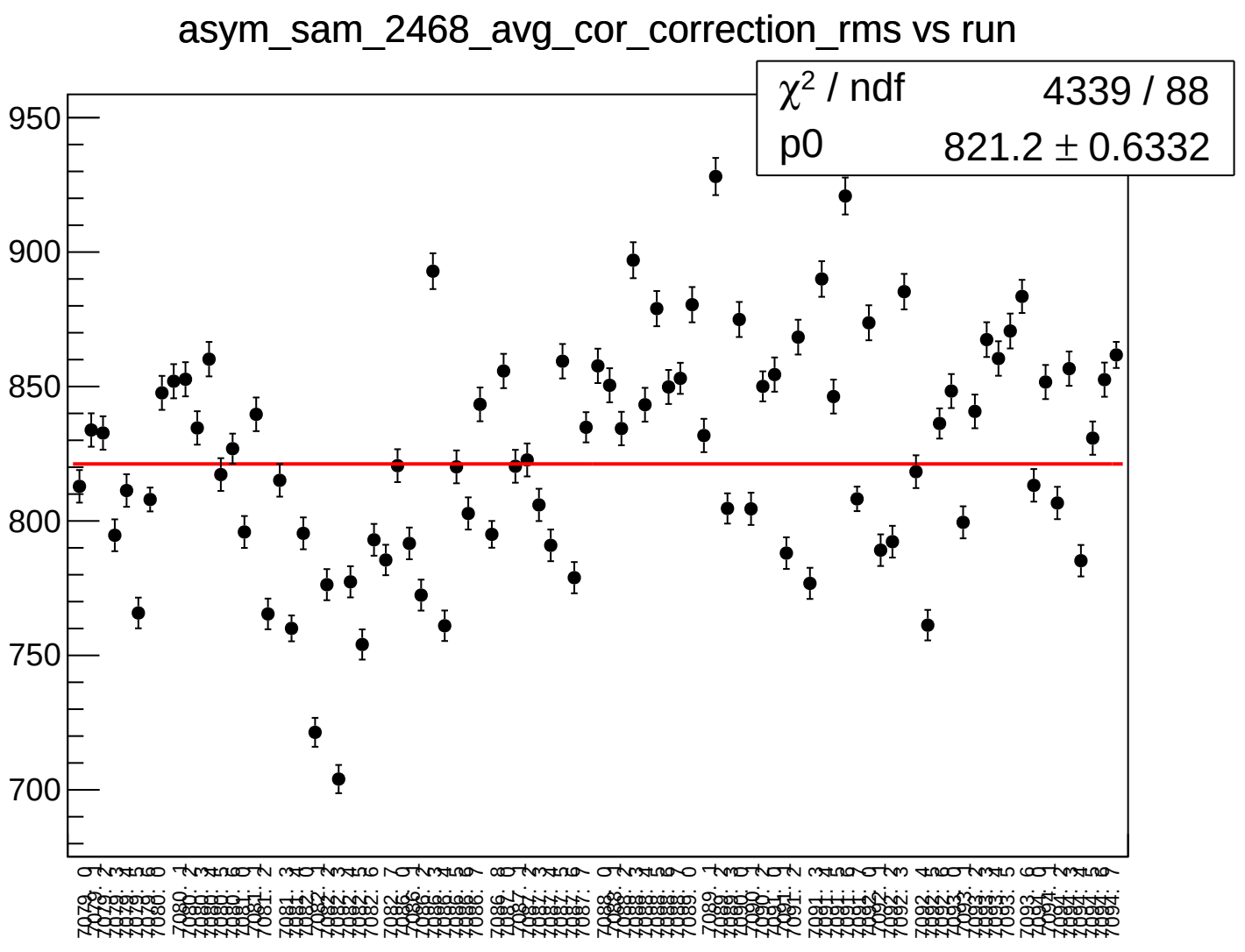

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 84.38 / 88
p0 −12.28 ± 85.36
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 523.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

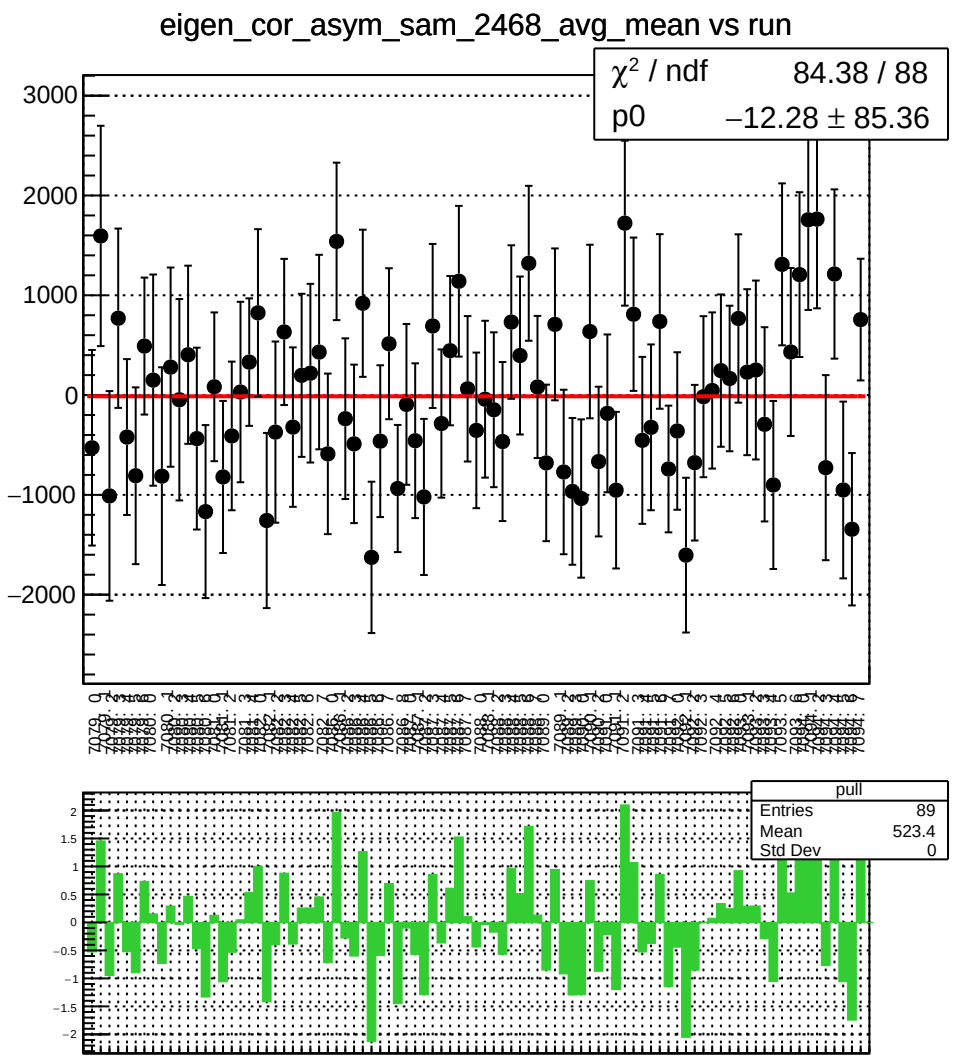

pull1D
Entries 89
Mean 0.005849
Std Dev 0.9737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

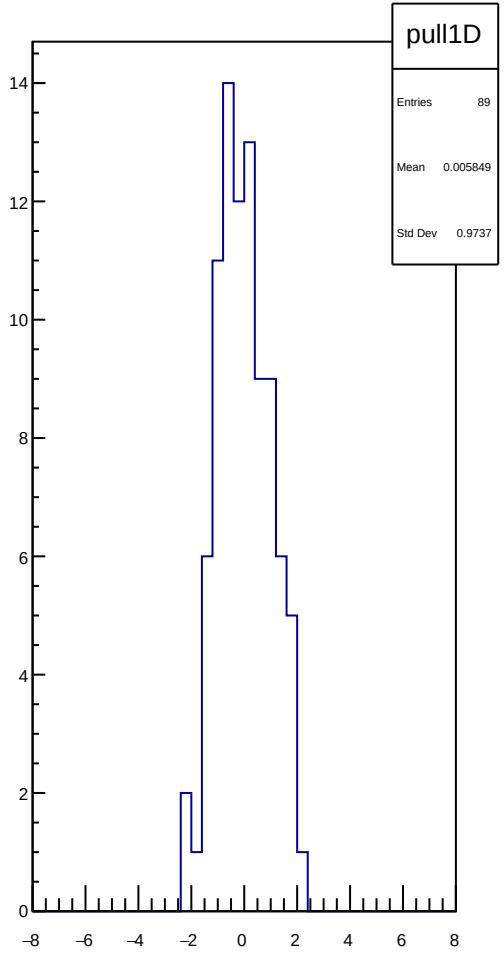

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.35e+04 / 88
p0 78.06 ± 0.06036
105
100
95
90
85
80
75
70

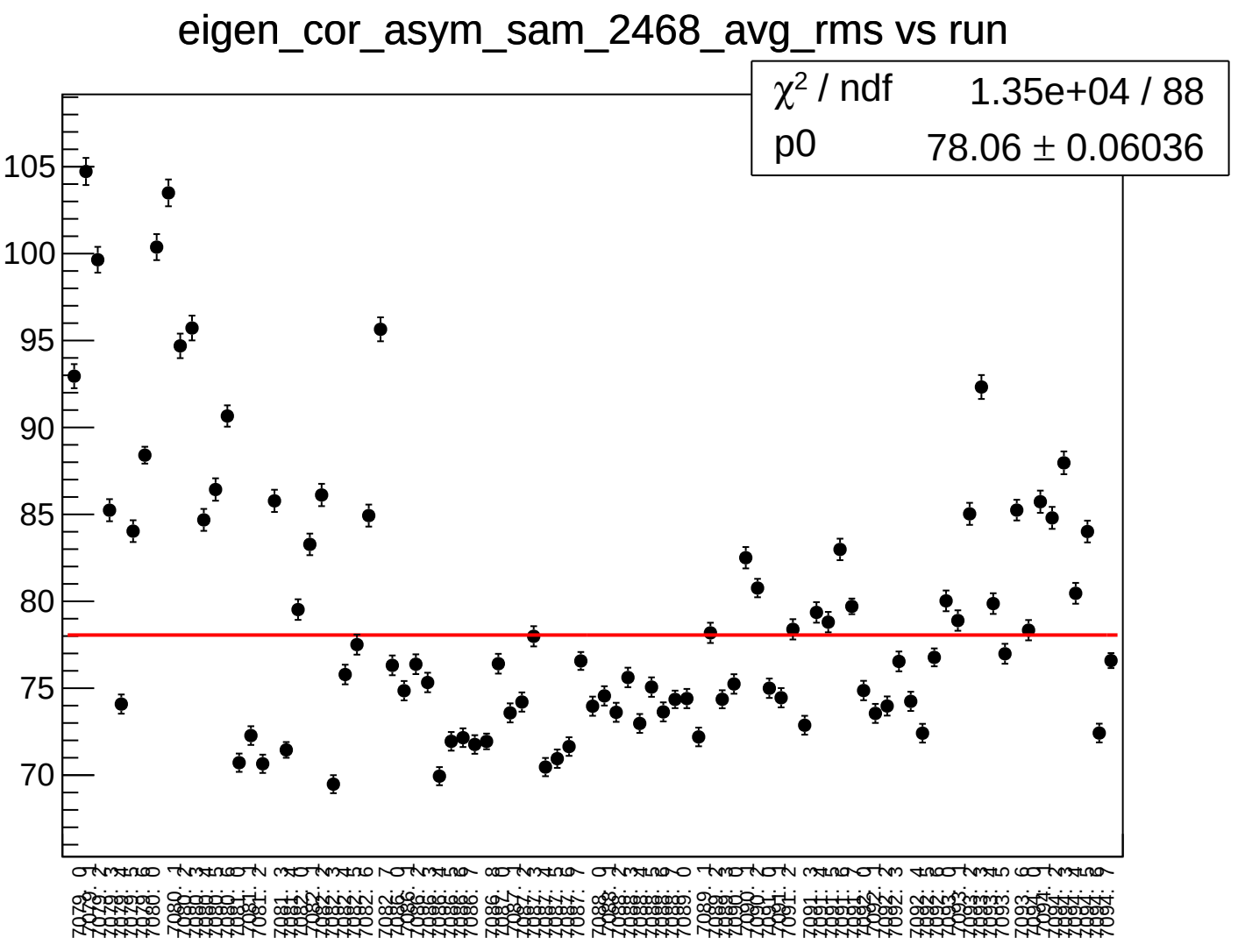

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 89.05 / 88
p0 −1215 ± 895.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 634.7
Std Dev 0
2
1
0
−1
−2

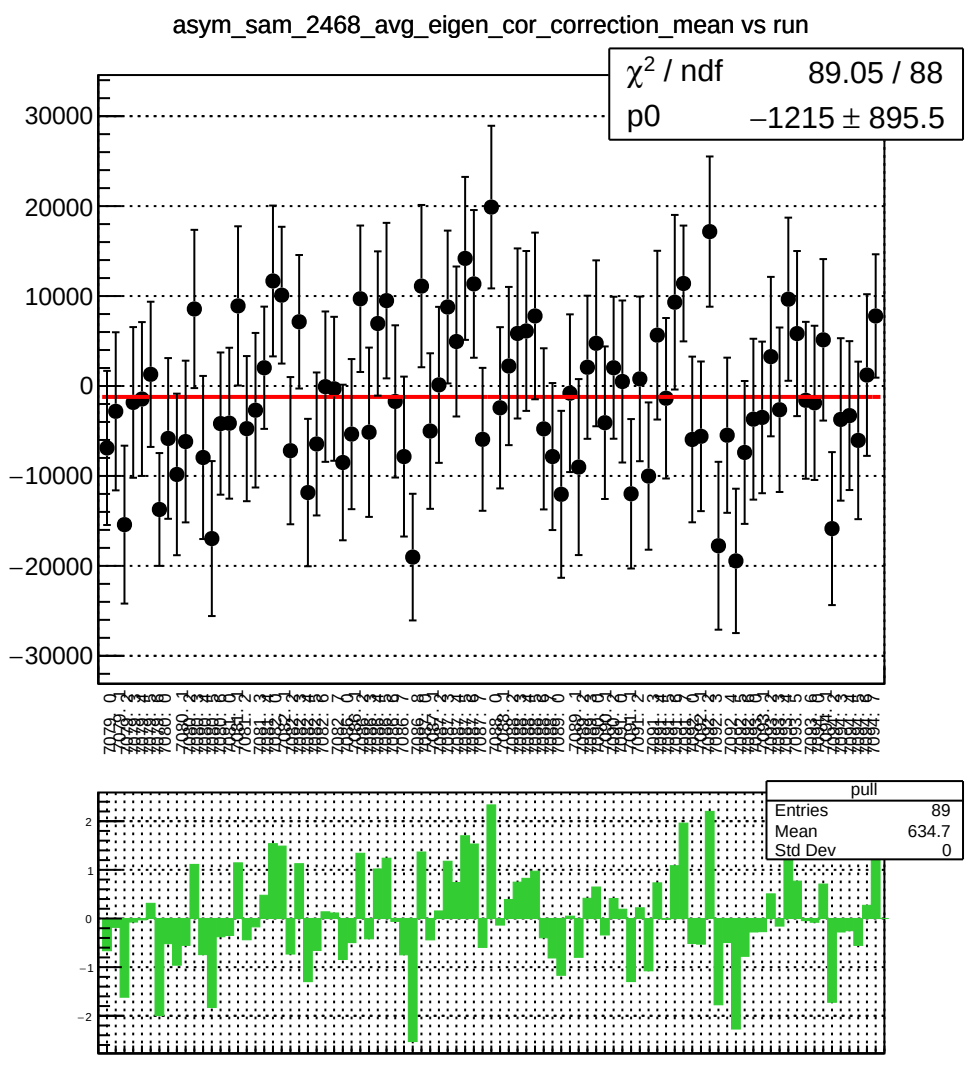

pull1D
Entries 89
Mean 0.003737
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

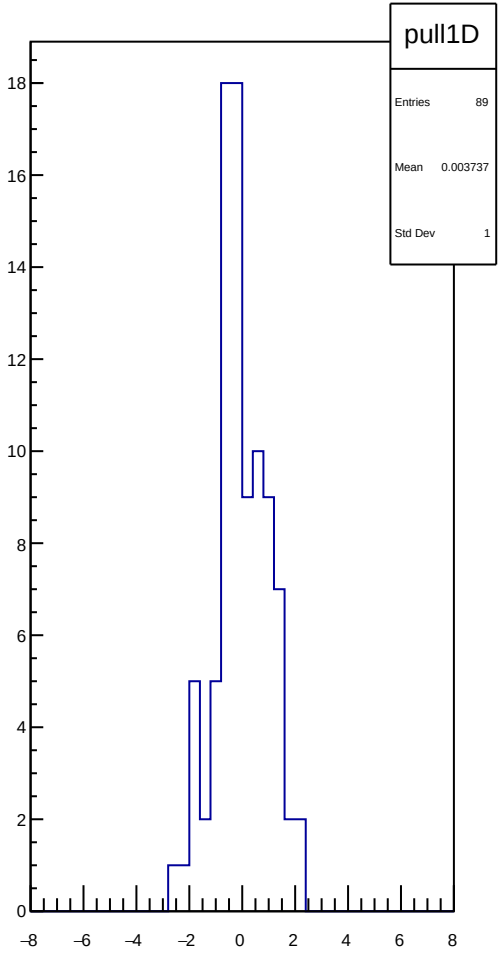

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 4339 / 88
p0 821.2 ± 0.6332
950
900
850
800
750
700

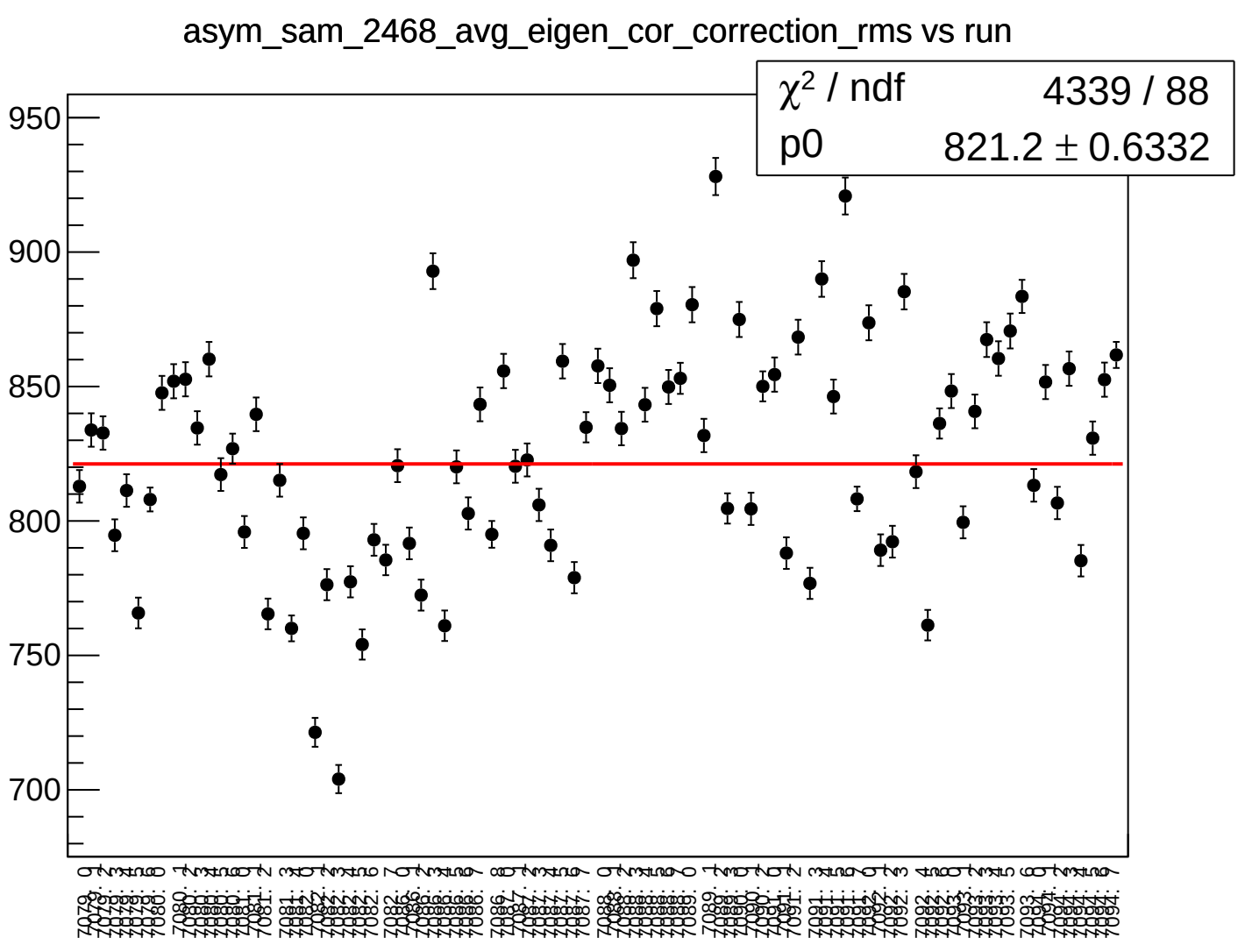

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 84.38 / 88
p0 −12.28 ± 85.36
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 523.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

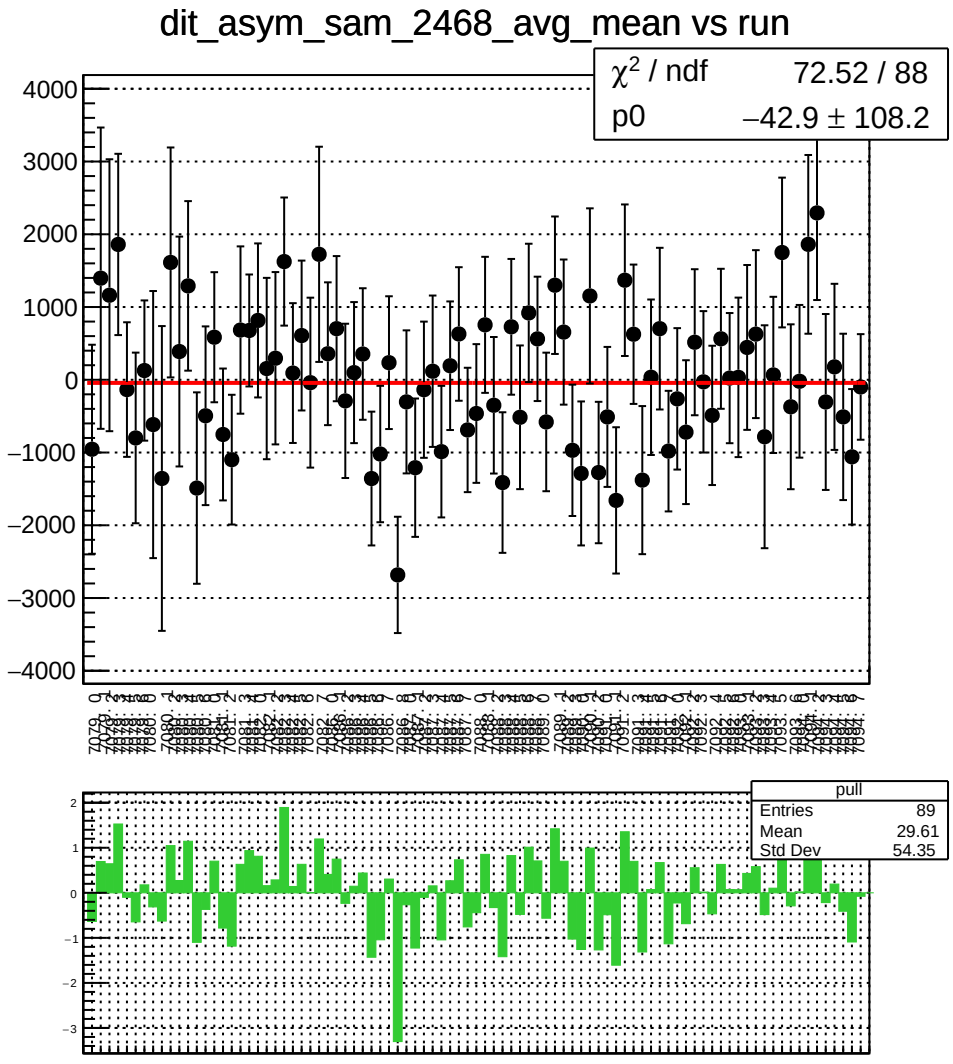

pull1D
Entries 89
Mean 0.005849
Std Dev 0.9737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

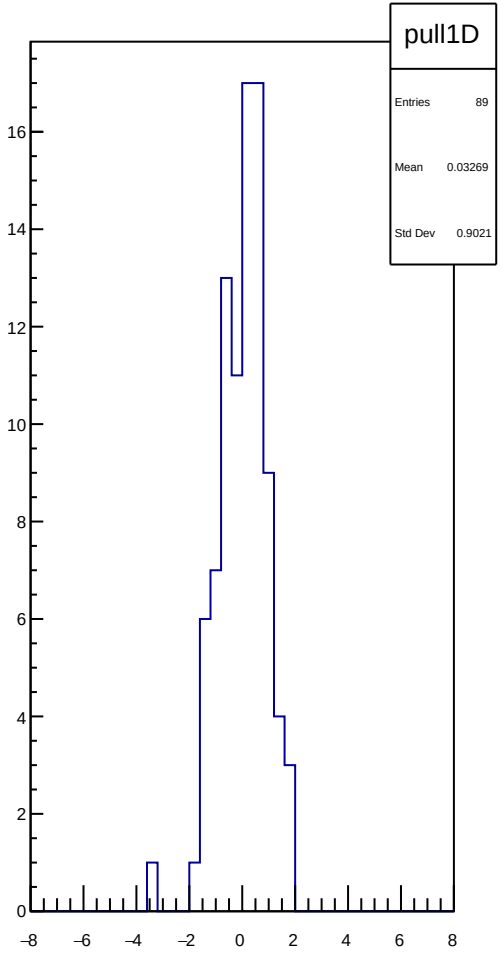

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.35e+04 / 88
p0 78.06 ± 0.06036
105
100
95
90
85
80
75
70

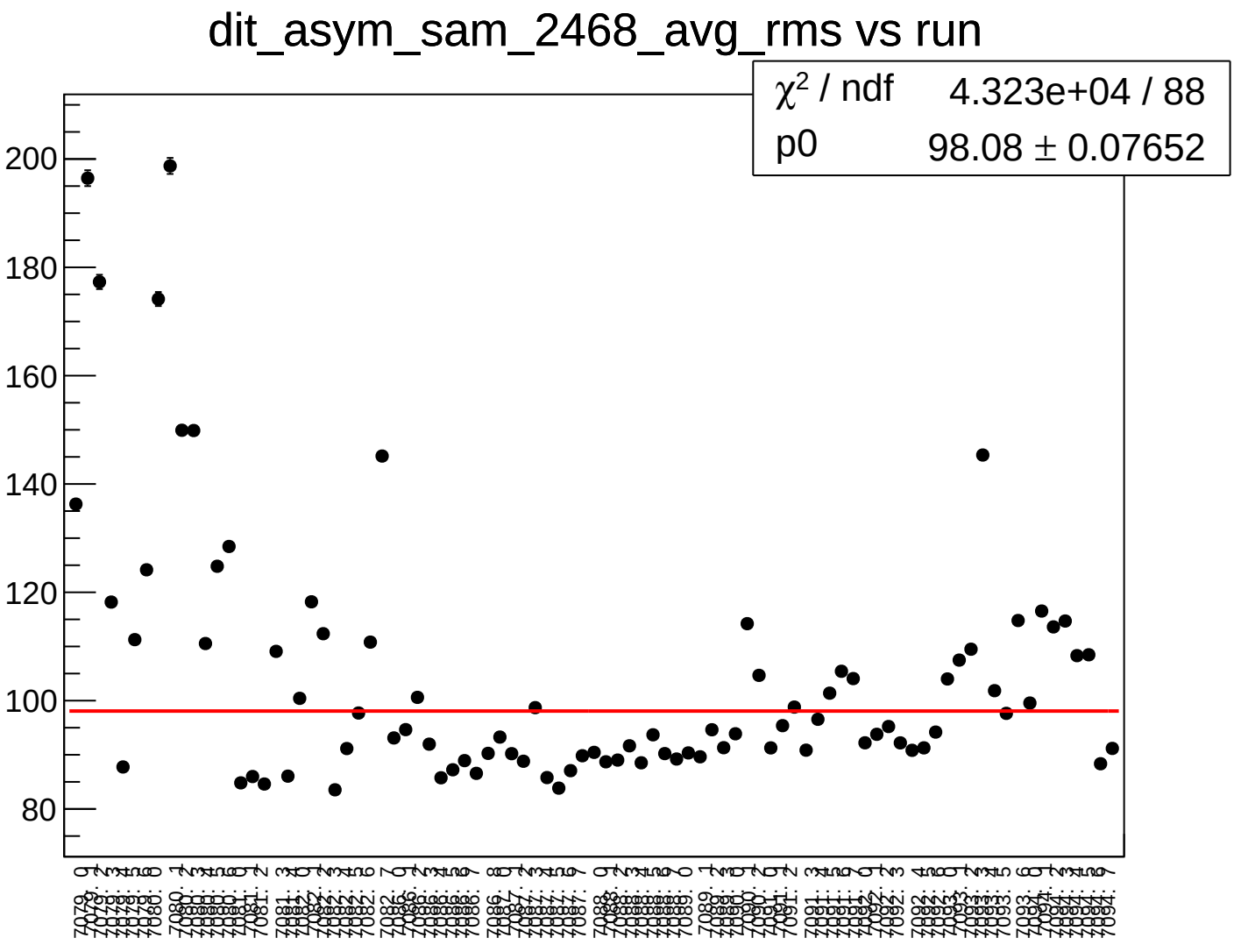

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.05 / 88
p0 −1215 ± 895.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 634.7
Std Dev 0
2
1
0
−1
−2

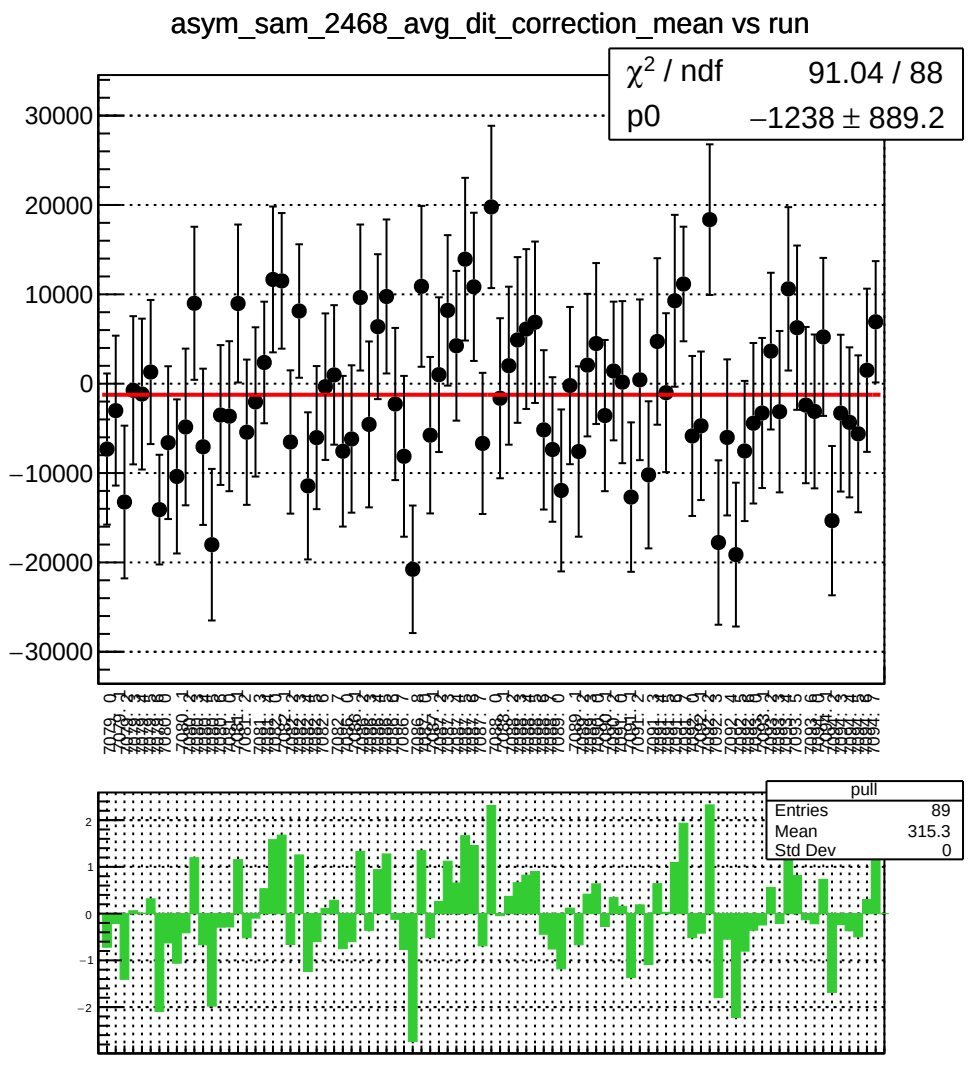

pull1D
Entries 89
Mean 0.003737
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

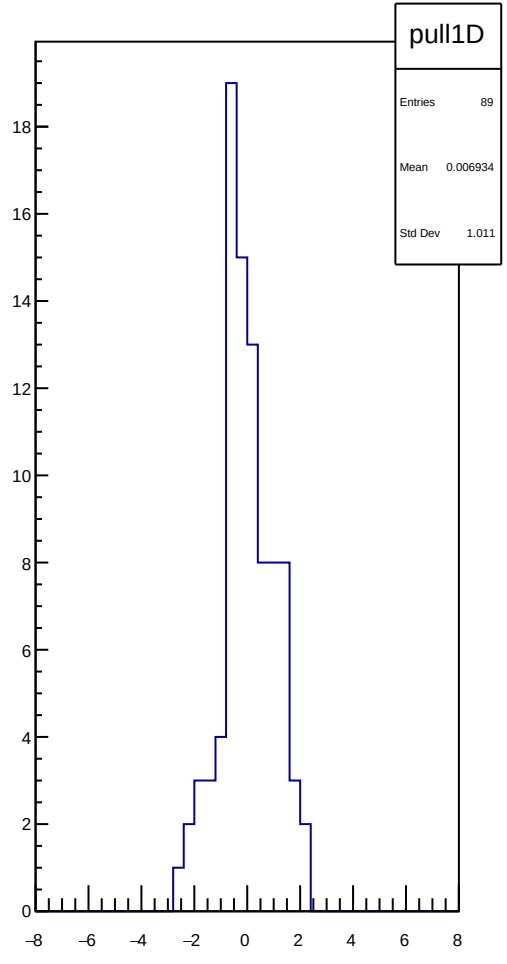

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 4339 / 88
p0 821.2 ± 0.6332
950
900
850
800
750
700

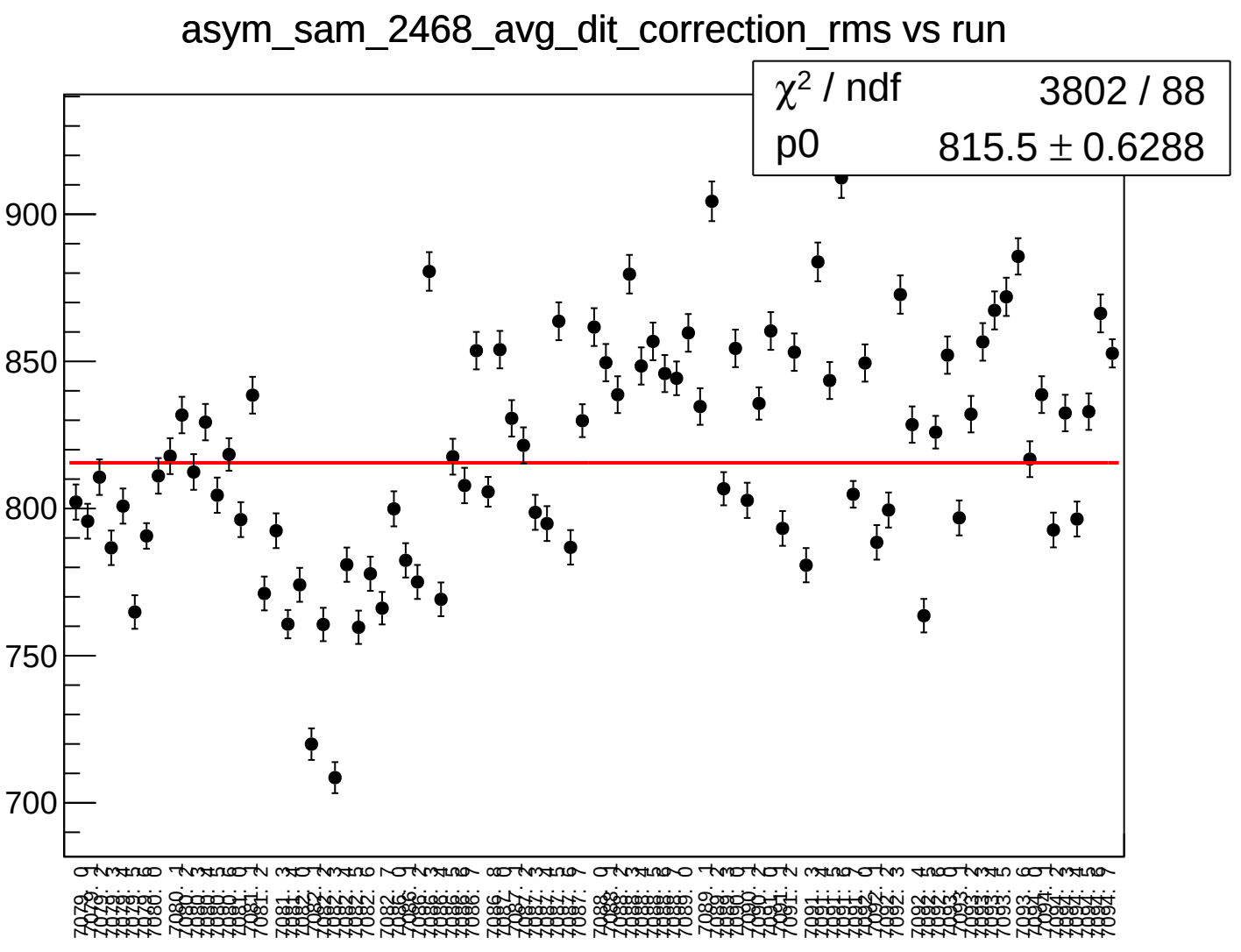

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 72.52 / 88
p0 −42.9 ± 108.2
pull
Entries 89
Mean 29.61
Std Dev 54.35

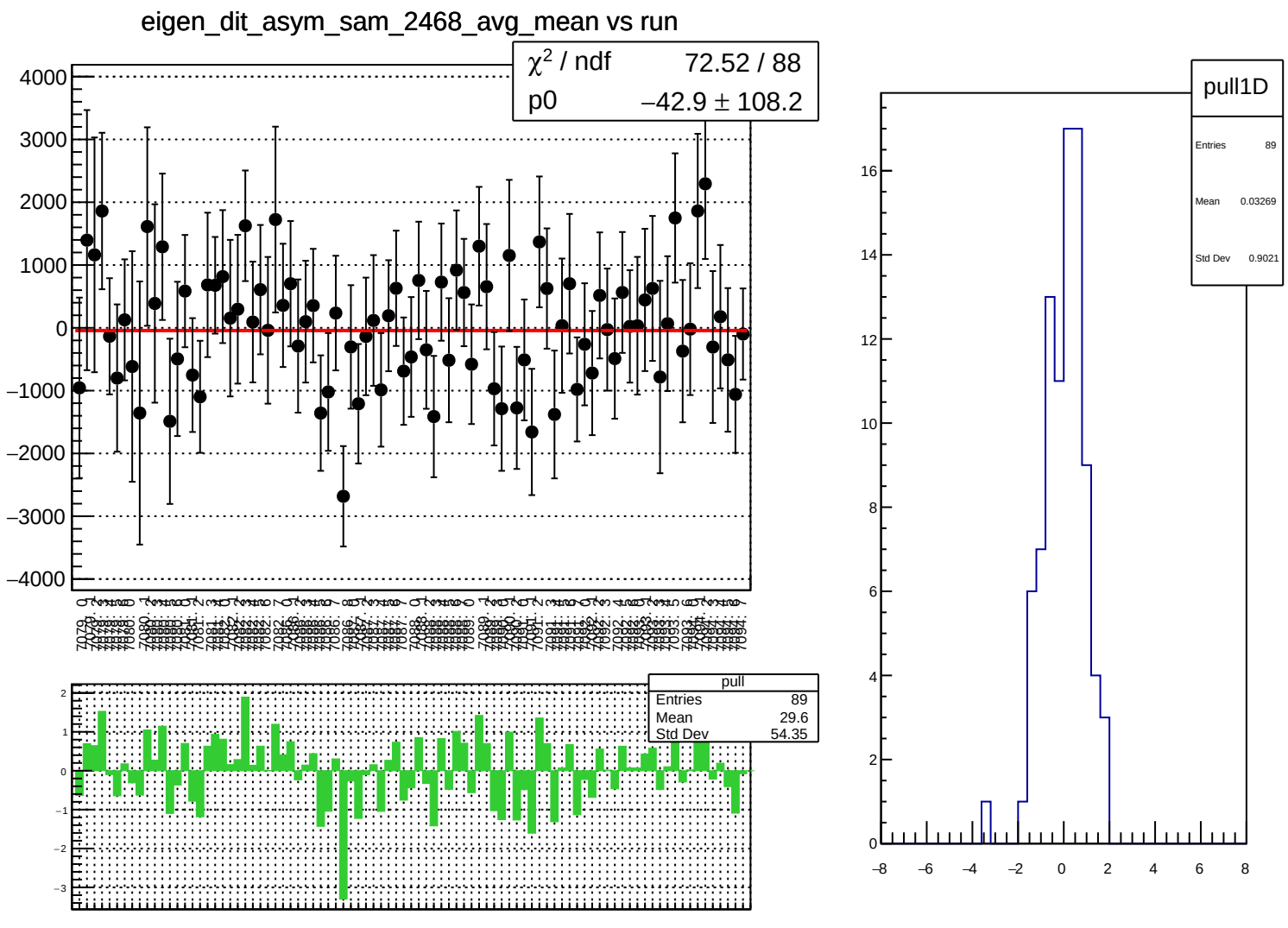

pull1D
Entries 89
Mean 0.03269
Std Dev 0.9021

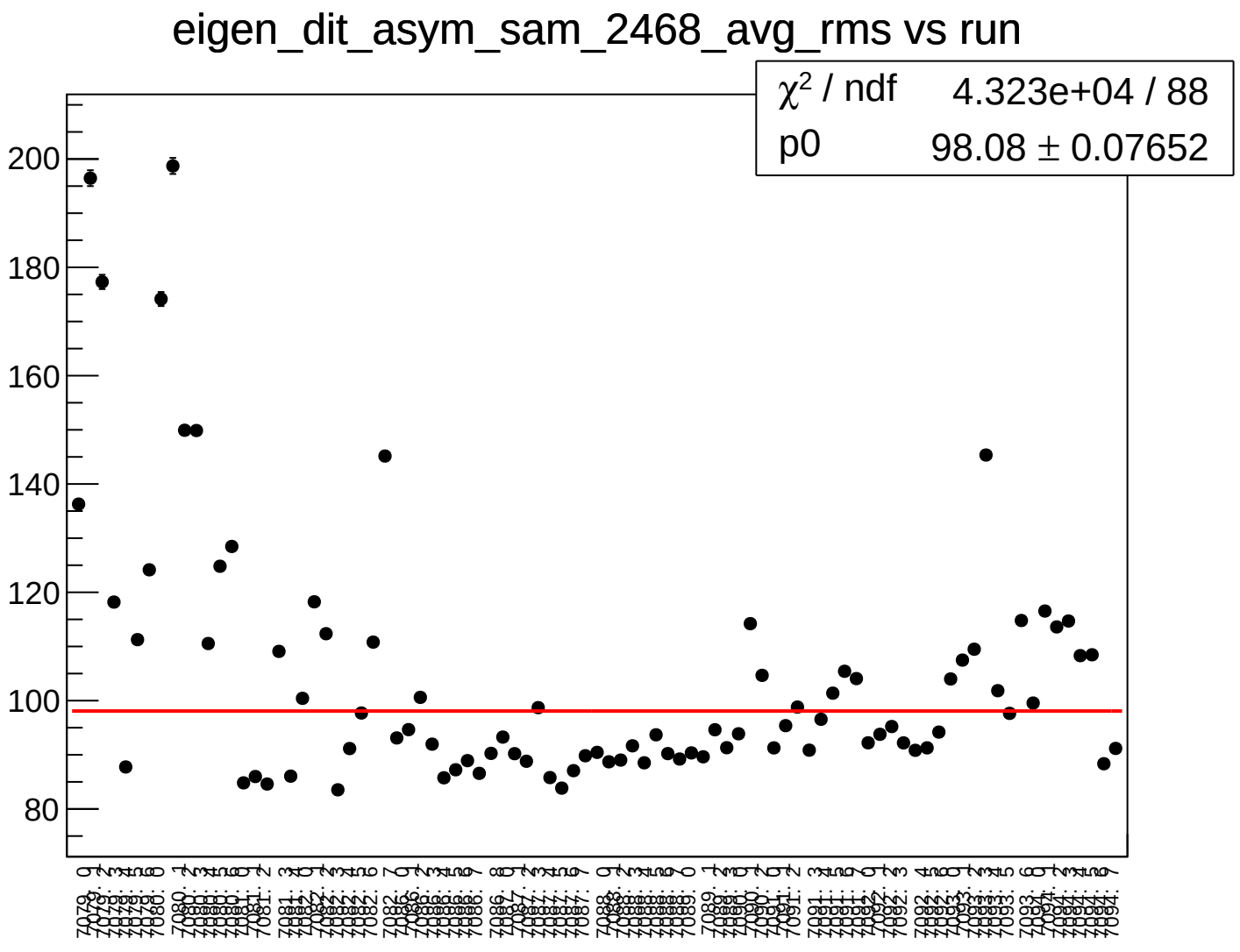

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 4.323e+04 / 88
p0 98.08 ± 0.07652
200
180
160
140
120
100
80


asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 91.04 / 88
p0 −1238 ± 889.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 315.3
Std Dev 0
2
1
0
−1
−2

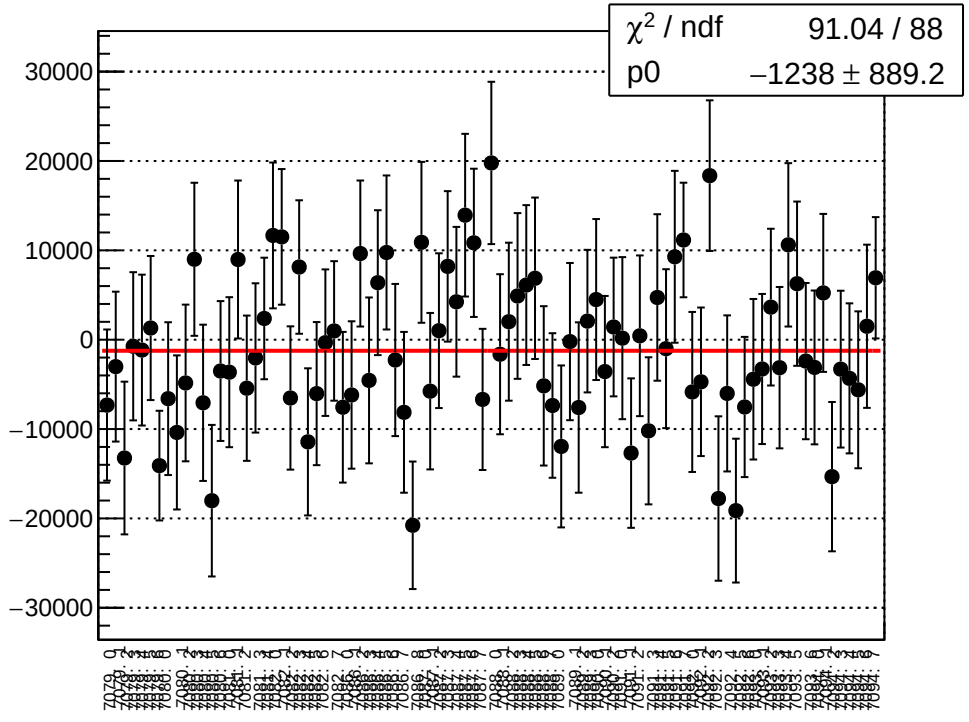

pull1D
Entries 89
Mean 0.006934
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

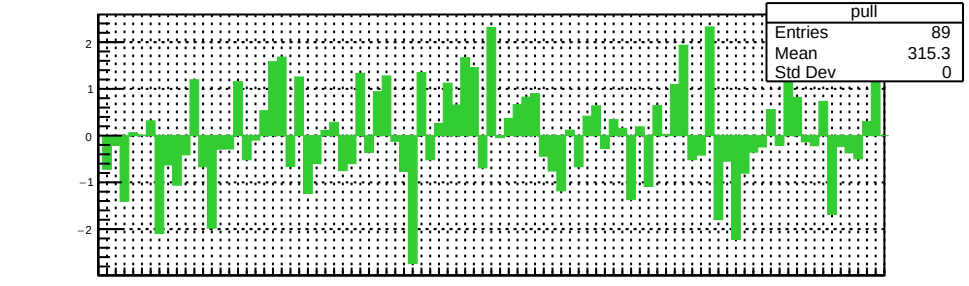

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3802 / 88
p0 815.5 ± 0.6288
900
850
800
750
700

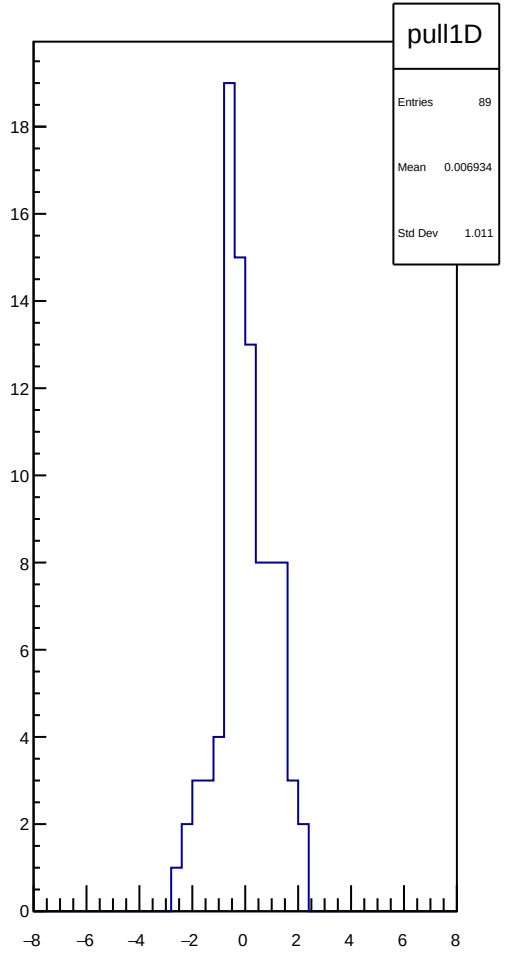

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 72.52 / 88
p0 −42.9 ± 108.2
pull
Entries 89
Mean 29.6
Std Dev 54.35
pull1D
Entries 89
Mean 0.03269
Std Dev 0.9021

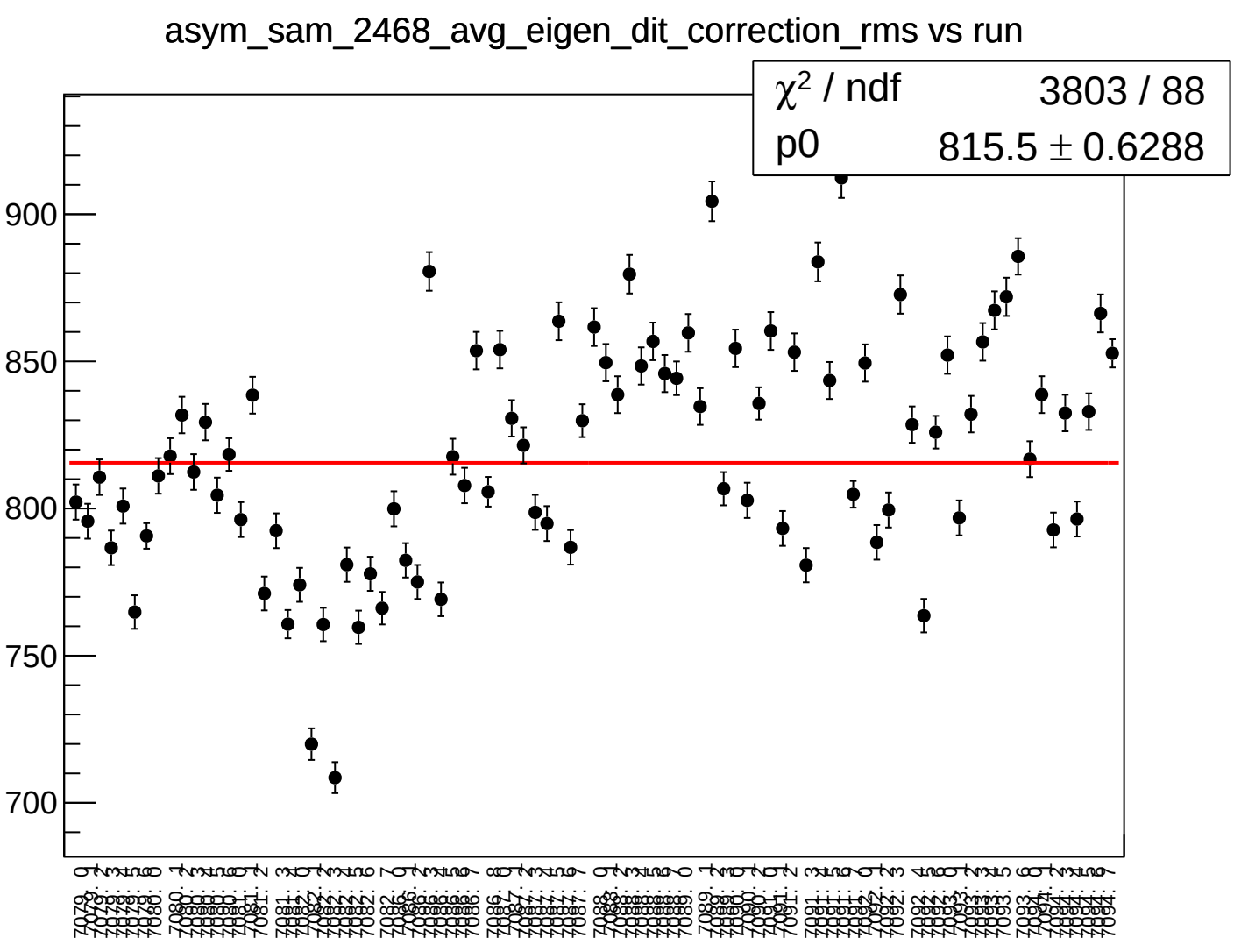

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.323e+04 / 88
p0 98.08 ± 0.07652
200
180
160
140
120
100
80

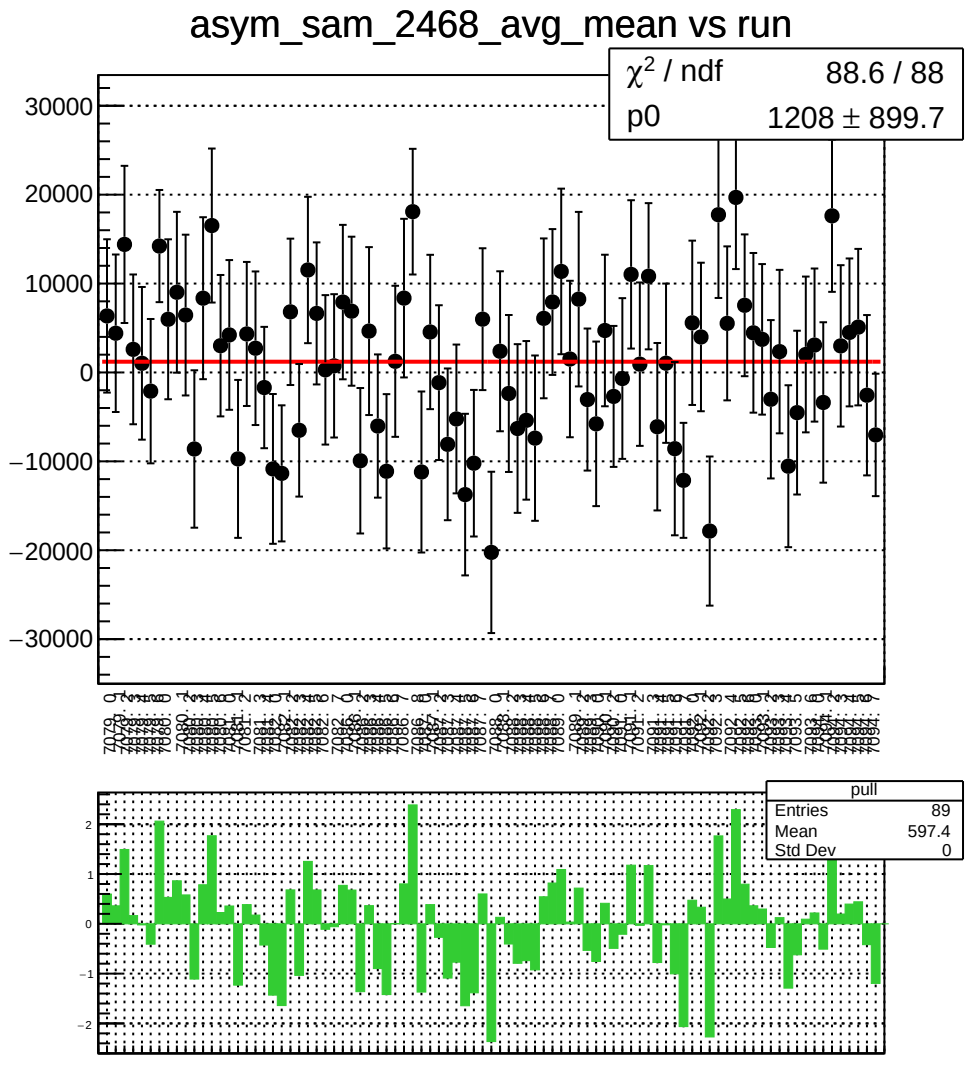
asym_sam_2468_avg_eigen_dit_correction_mean vs run

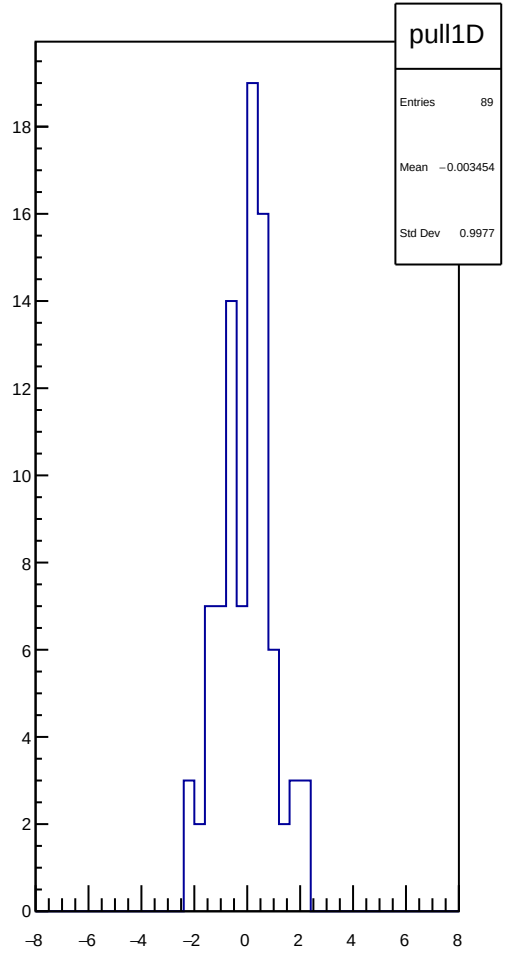


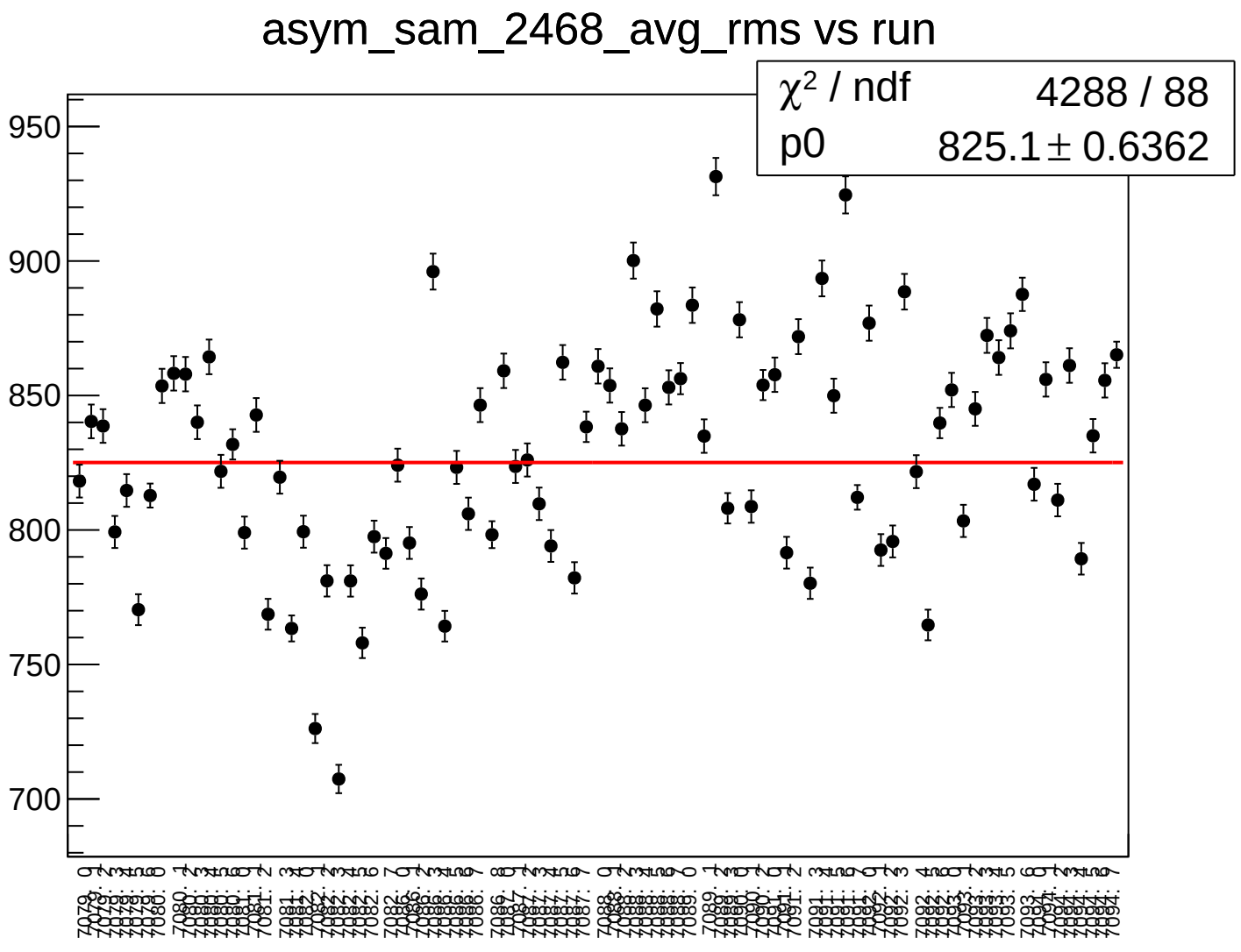


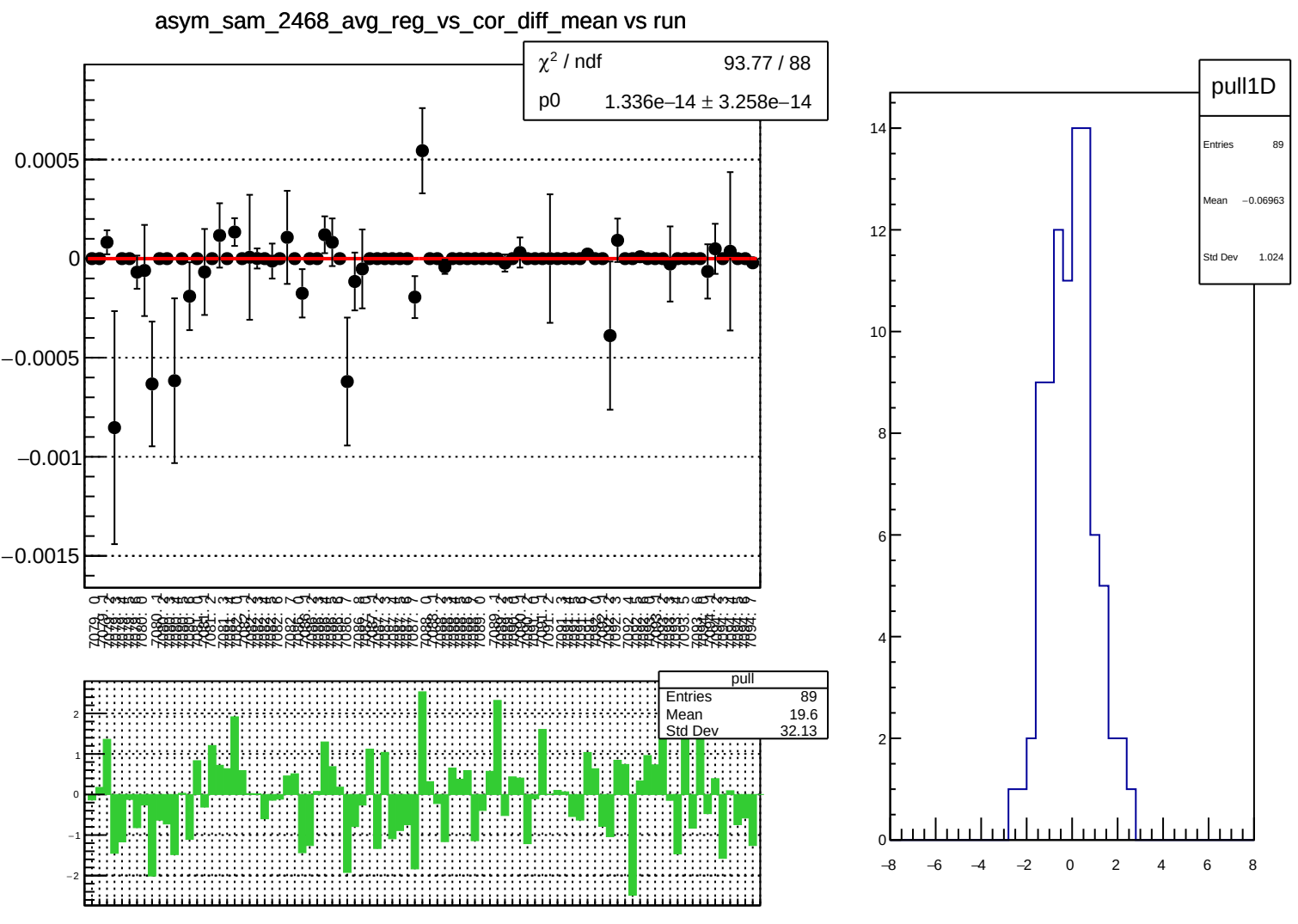


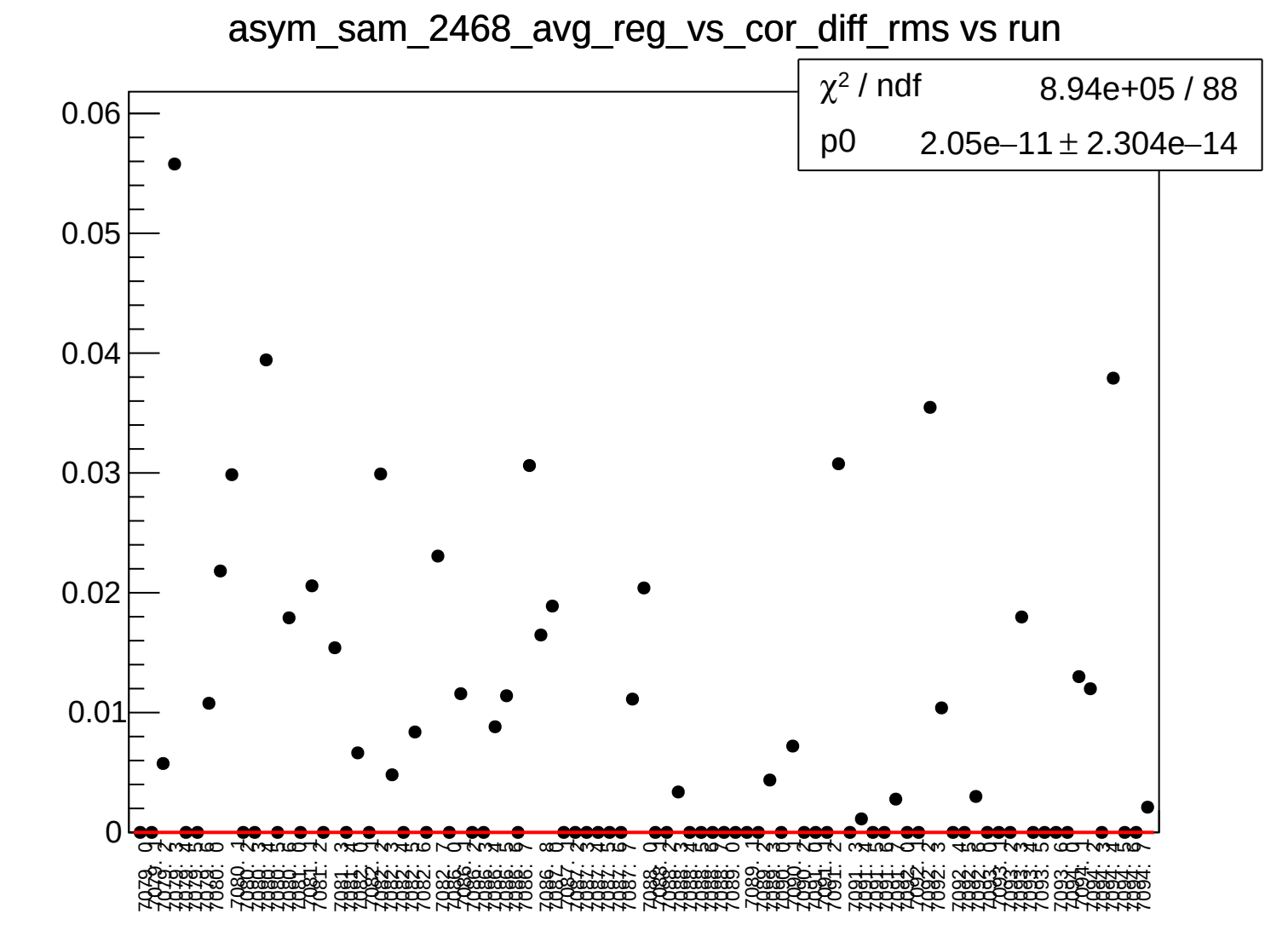

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 3803 / 88
p0 815.5 ± 0.6288
900
850
800
750
700

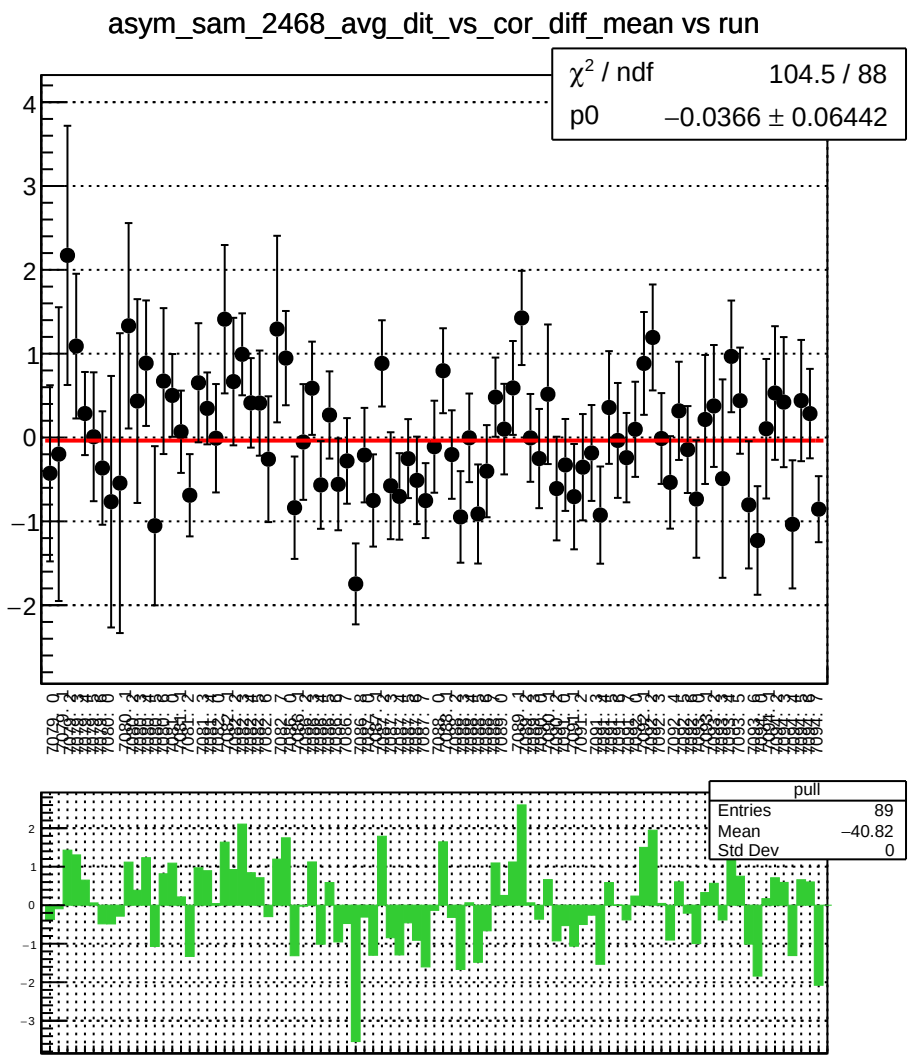

asym_sam_2468_avg_mean vs run
χ² / ndf 88.6 / 88
p0 1208 ± 899.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 597.4
Std Dev 0
2
1
0
−1
−2

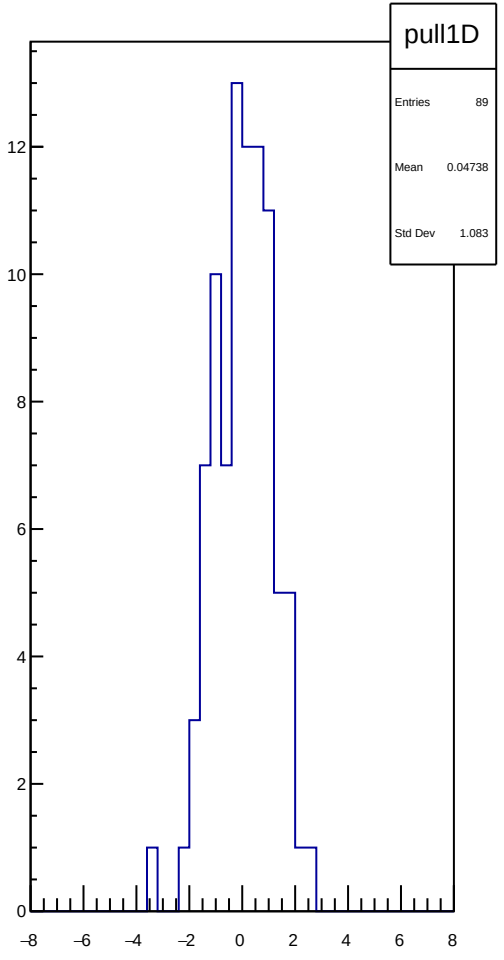

pull1D
Entries 89
Mean −0.003454
Std Dev 0.9977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

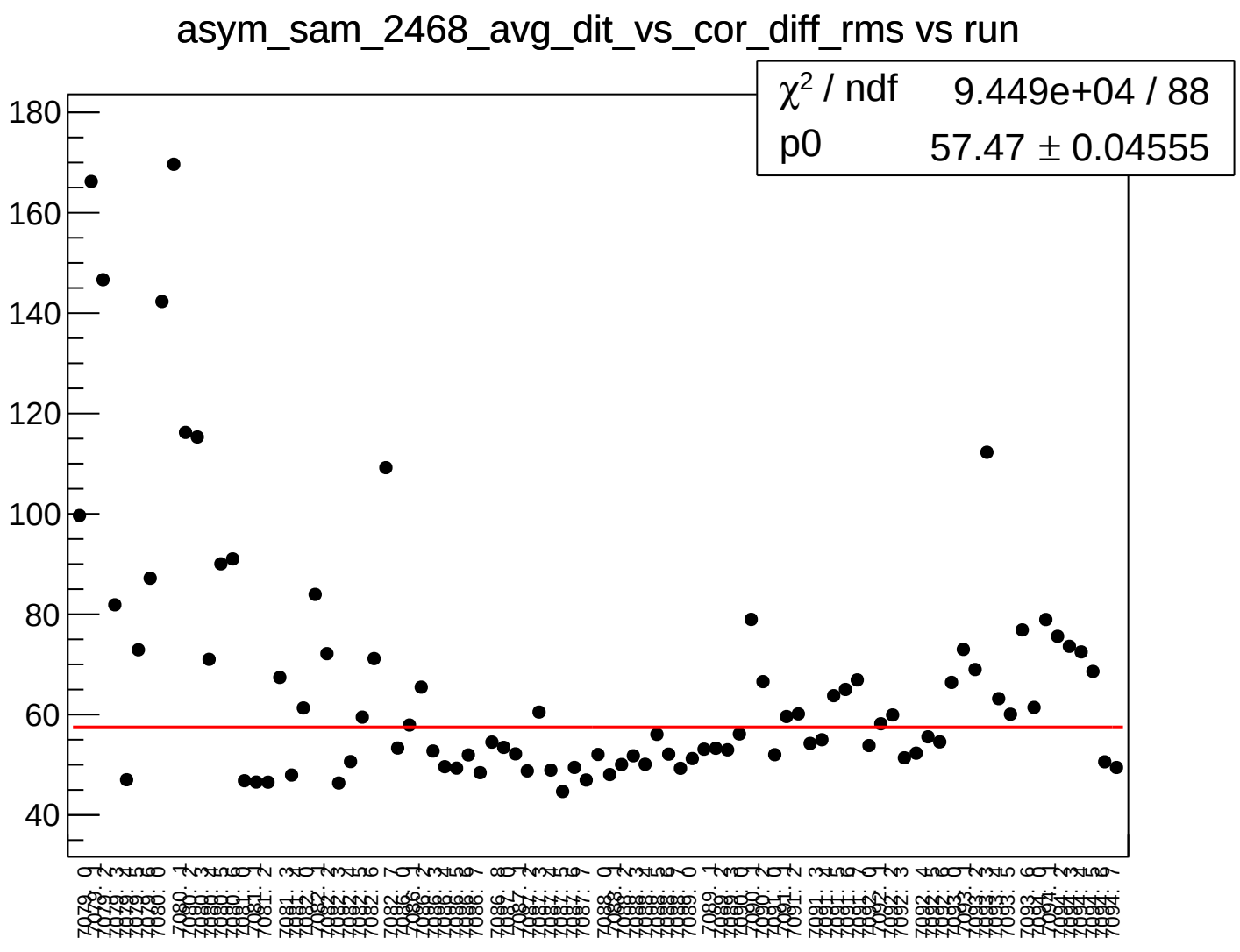

asym_sam_2468_avg_rms vs run
χ² / ndf 4288 / 88
p0 825.1 ± 0.6362
950
900
850
800
750
700

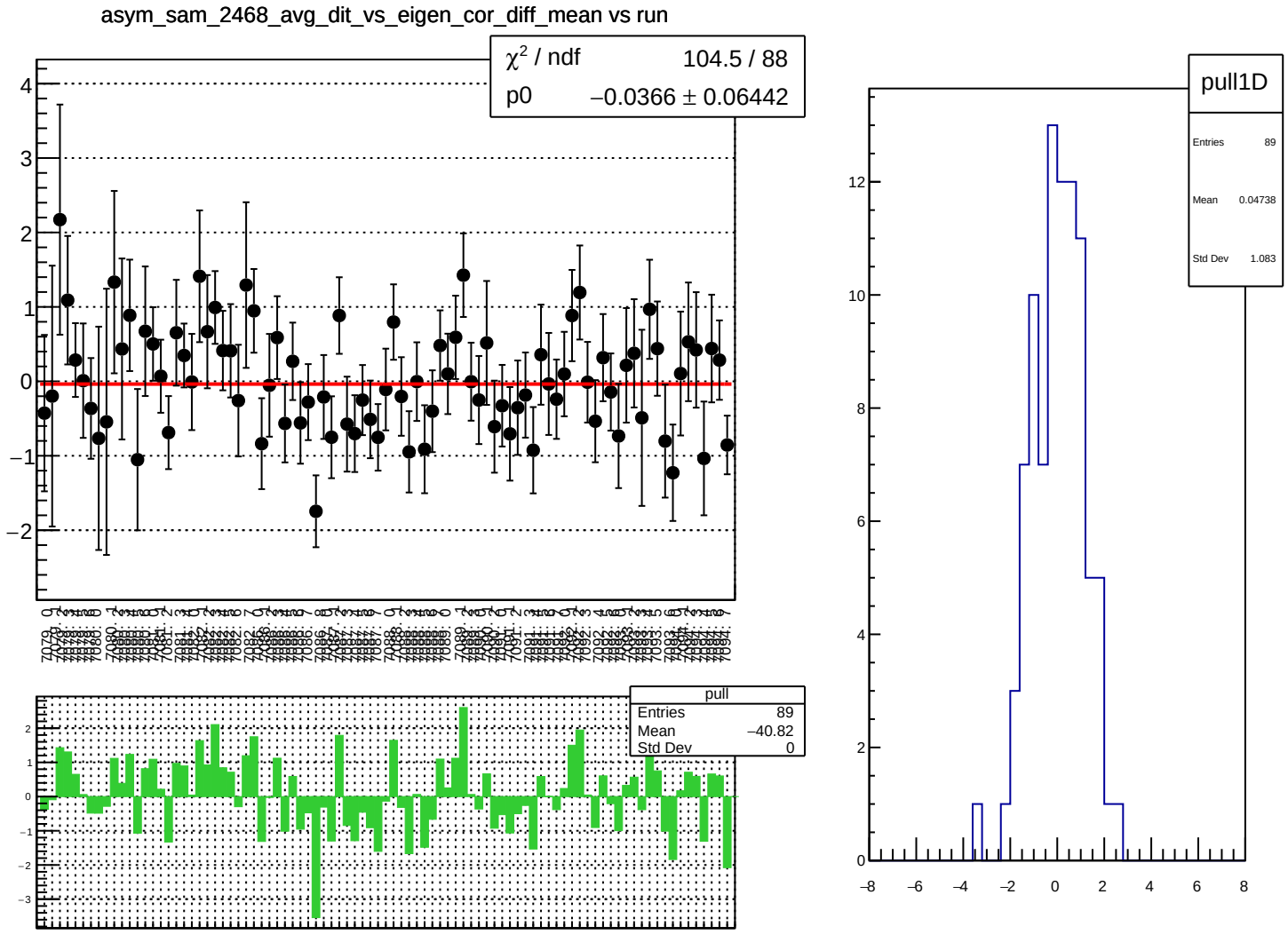

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.77 / 88
p0 1.336e−14 ± 3.258e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 19.6
Std Dev 32.13
pull1D
Entries 89
Mean −0.06963
Std Dev 1.024

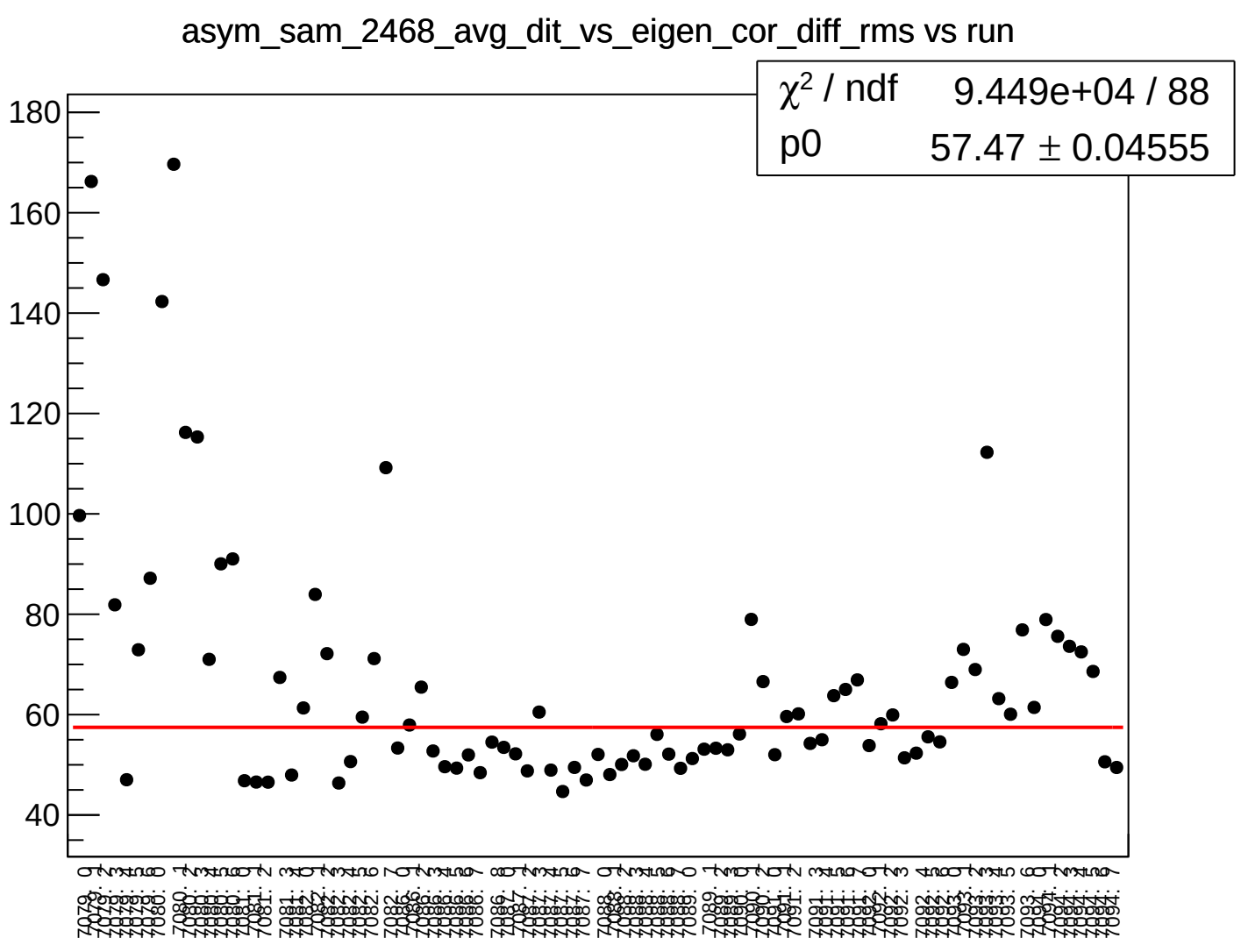

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.94e+05 / 88
p0 2.05e−11 ± 2.304e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

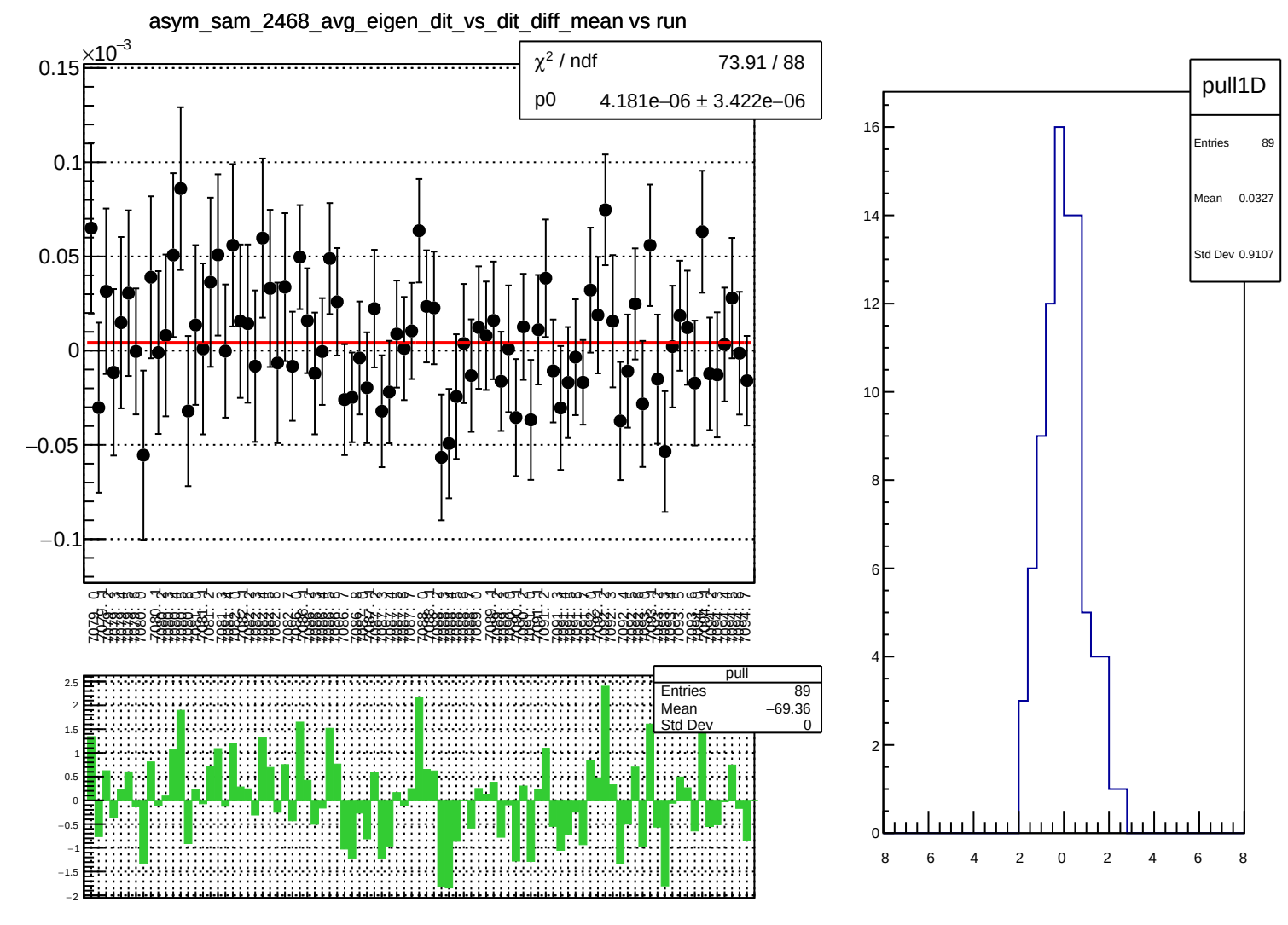

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 88
p0 −0.0366 ± 0.06442
pull
Entries 89
Mean −40.82
Std Dev 0

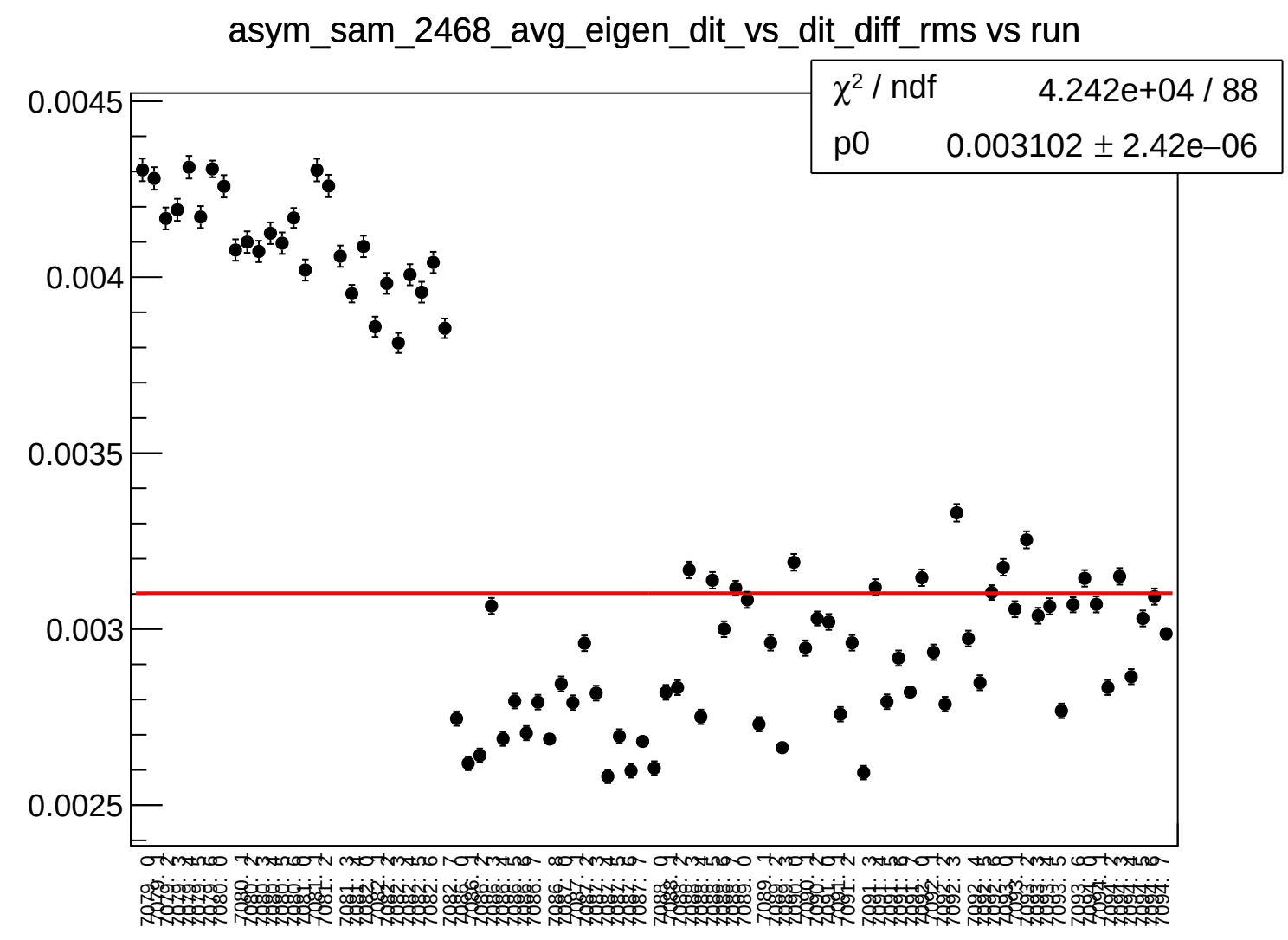

pull1D
Entries 89
Mean 0.04738
Std Dev 1.083

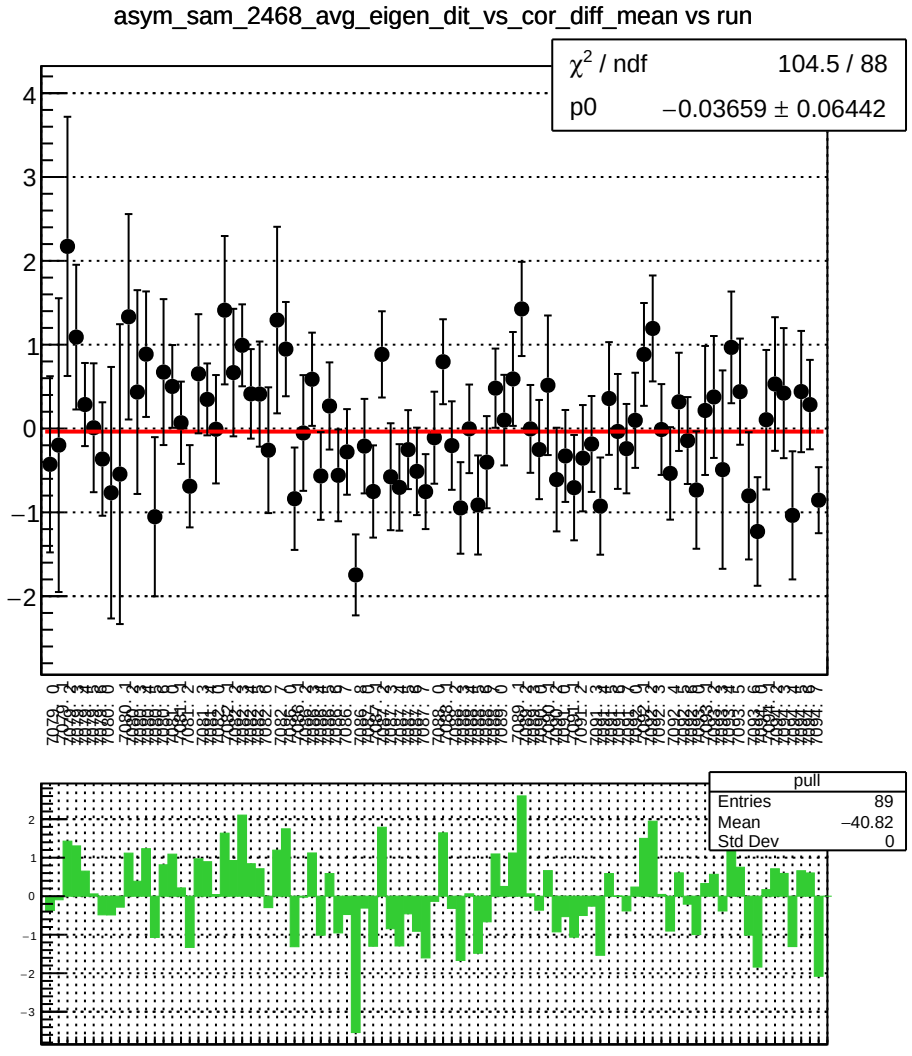

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.449e+04 / 88
p0 57.47 ± 0.04555
180
160
140
120
100
80
60
40

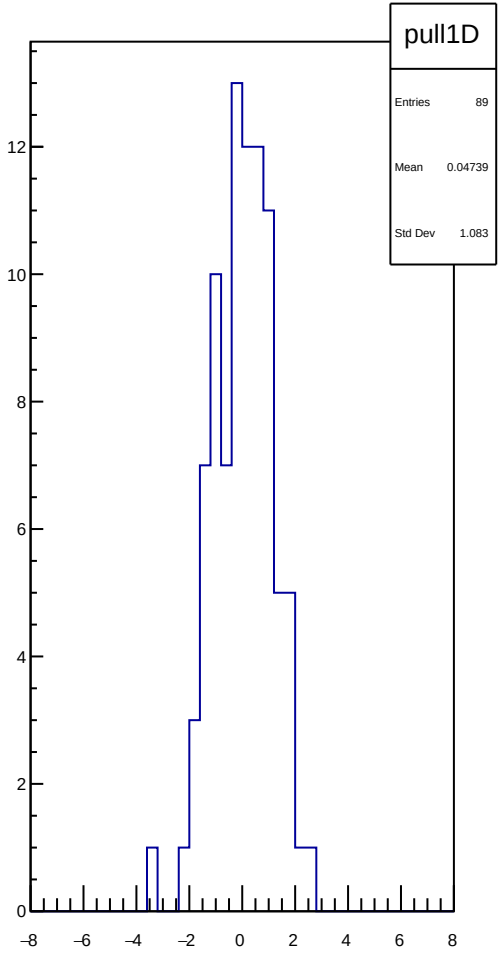

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 88
p0 −0.0366 ± 0.06442
pull
Entries 89
Mean −40.82
Std Dev 0
pull1D
Entries 89
Mean 0.04738
Std Dev 1.083

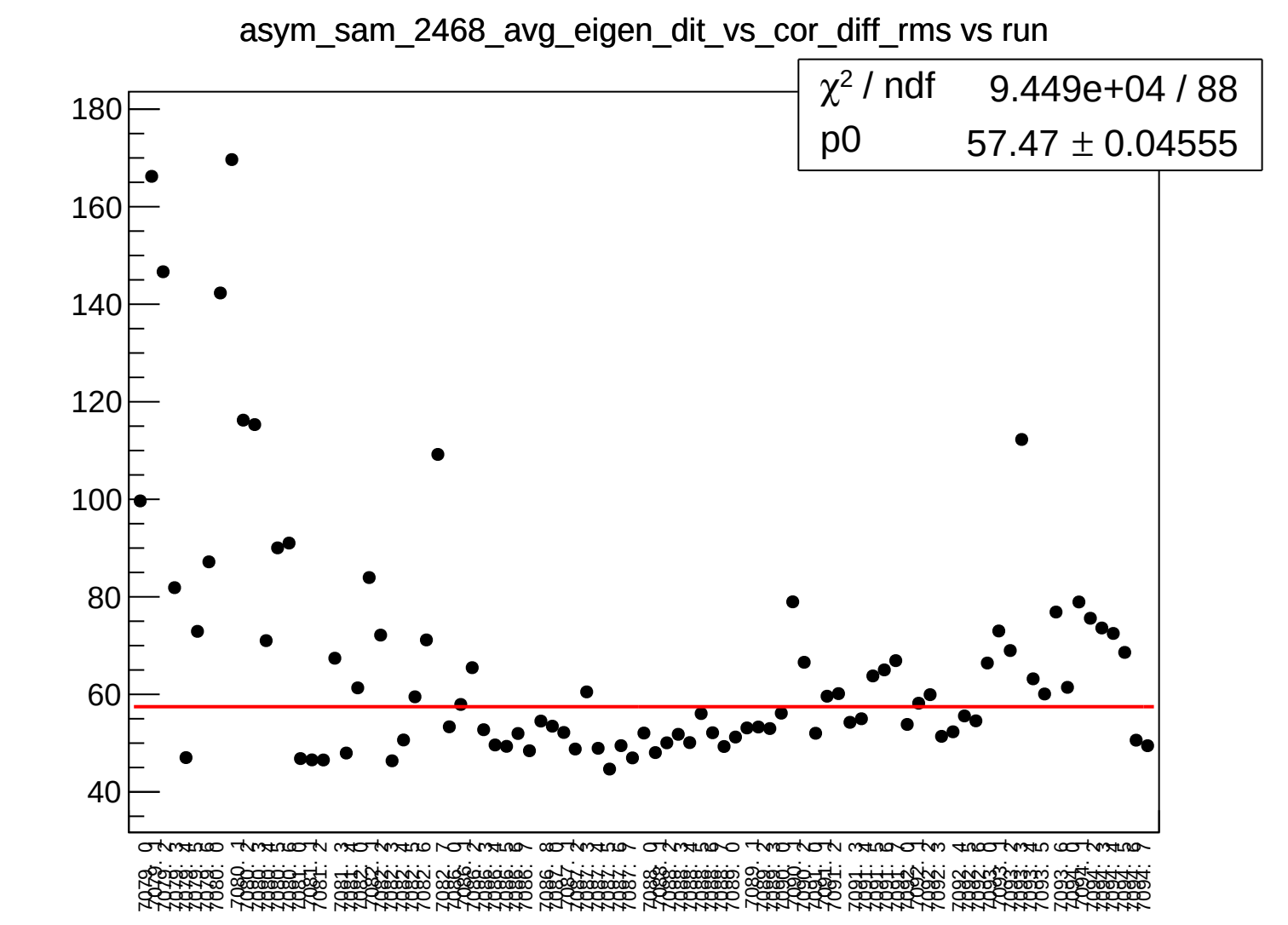

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.449e+04 / 88
p0 57.47 ± 0.04555
180
160
140
120
100
80
60
40

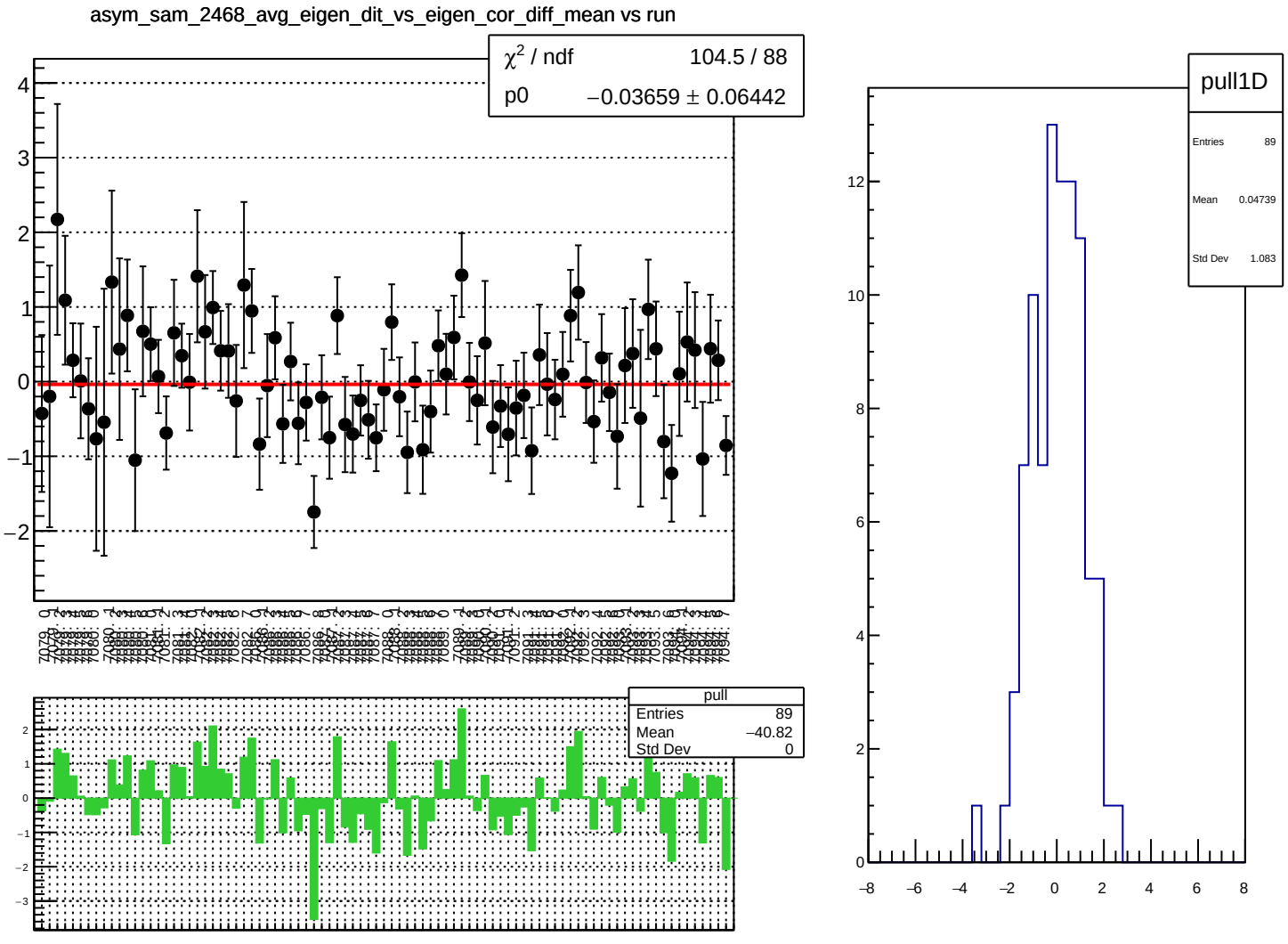

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.91 / 88
p0 4.181e−06 ± 3.422e−06
pull
Entries 89
Mean −69.36
Std Dev 0
pull1D
Entries 89
Mean 0.0327
Std Dev 0.9107

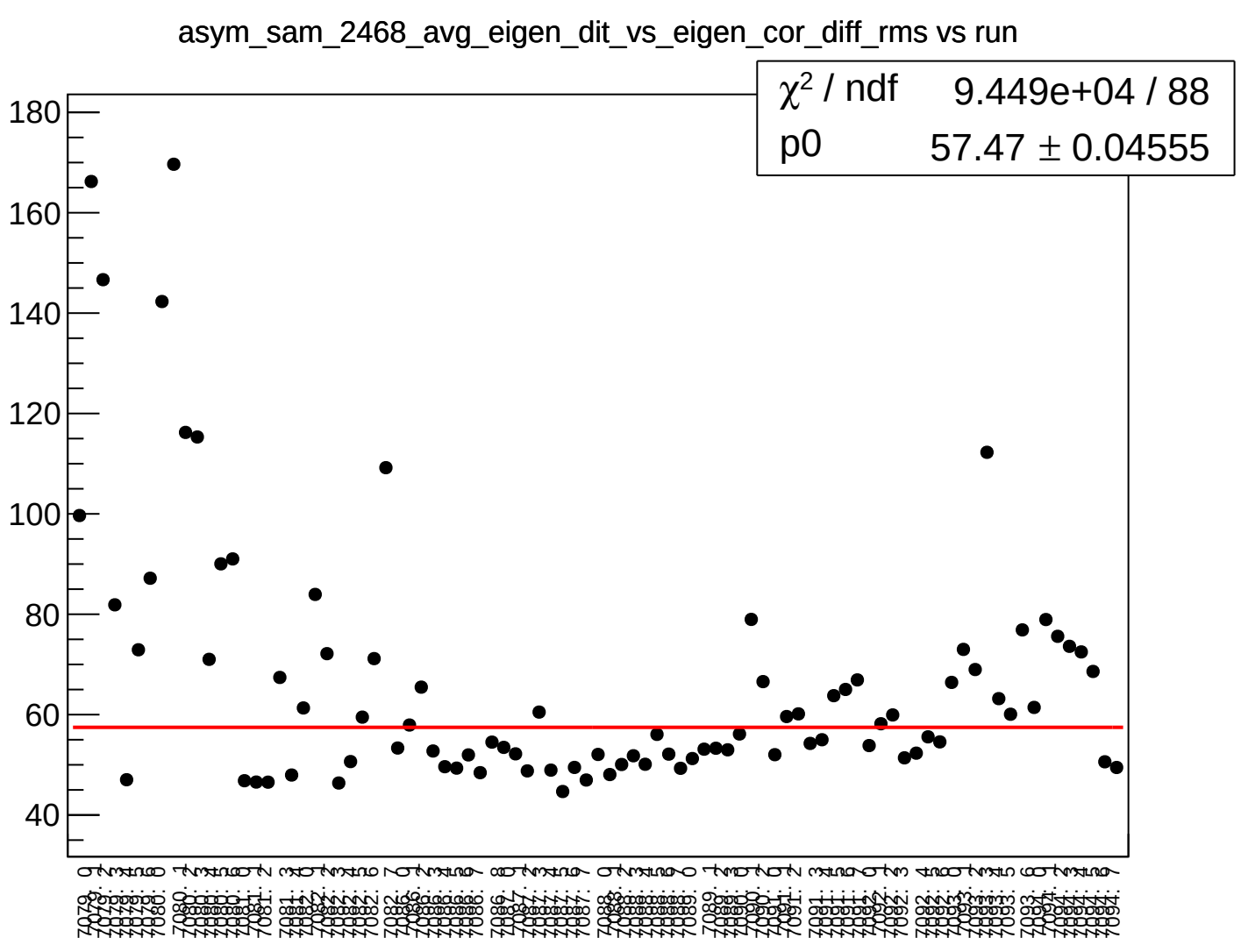

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.242e+04 / 88
p0 0.003102 ± 2.42e−06
0.0045
0.004
0.0035
0.003
0.0025

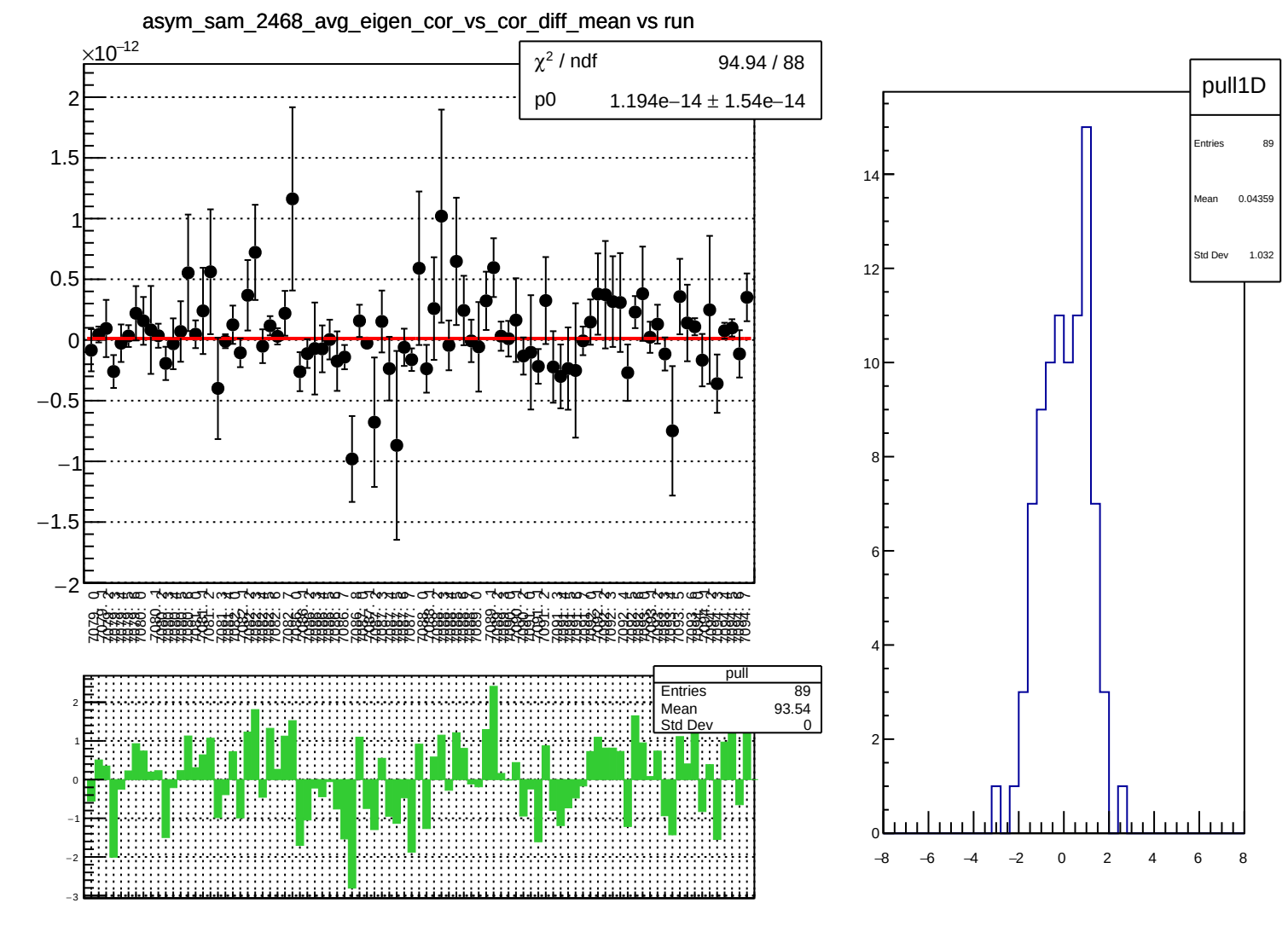

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 88
p0 −0.03659 ± 0.06442
pull
Entries 89
Mean −40.82
Std Dev 0

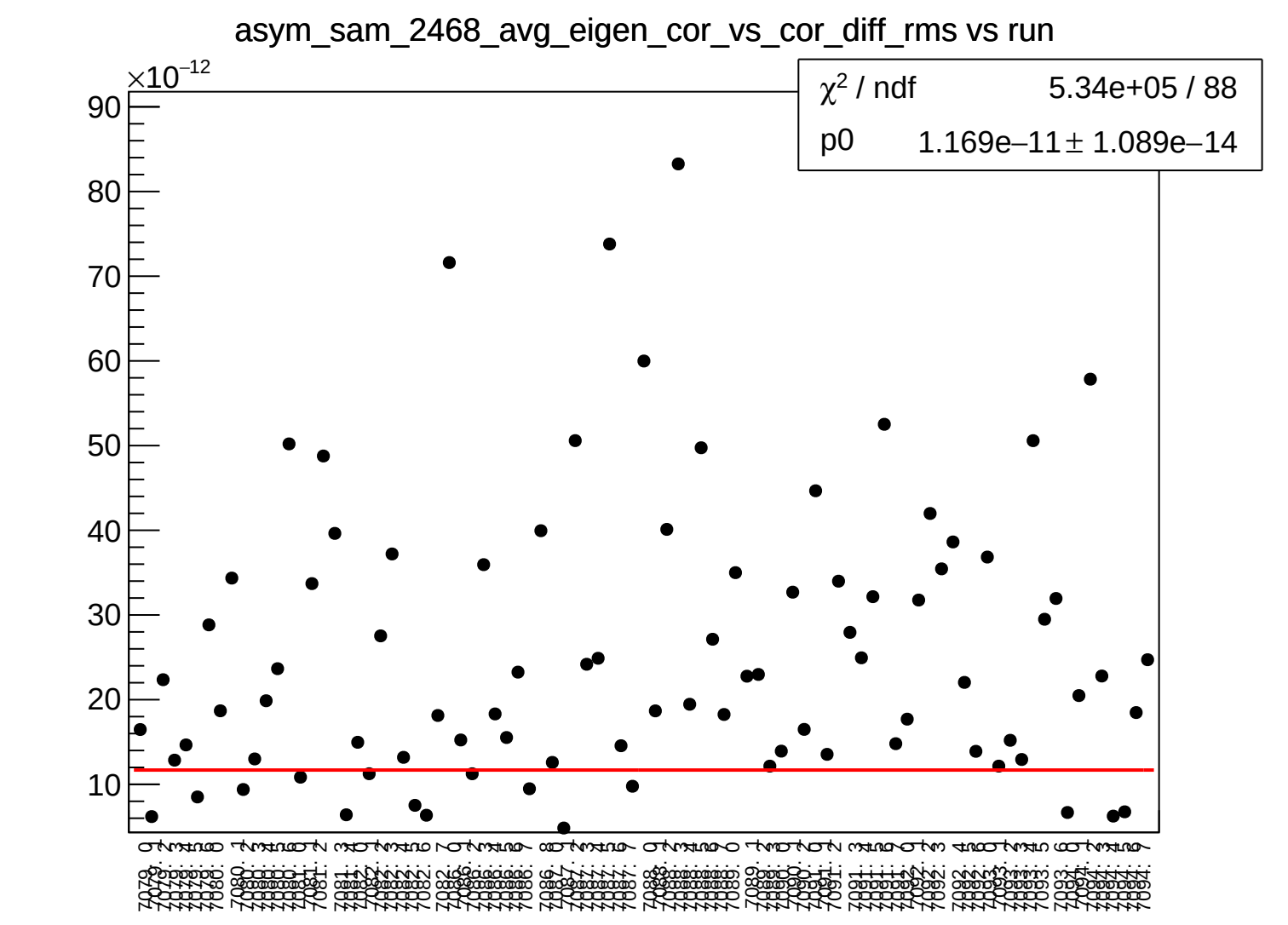

pull1D
Entries 89
Mean 0.04739
Std Dev 1.083

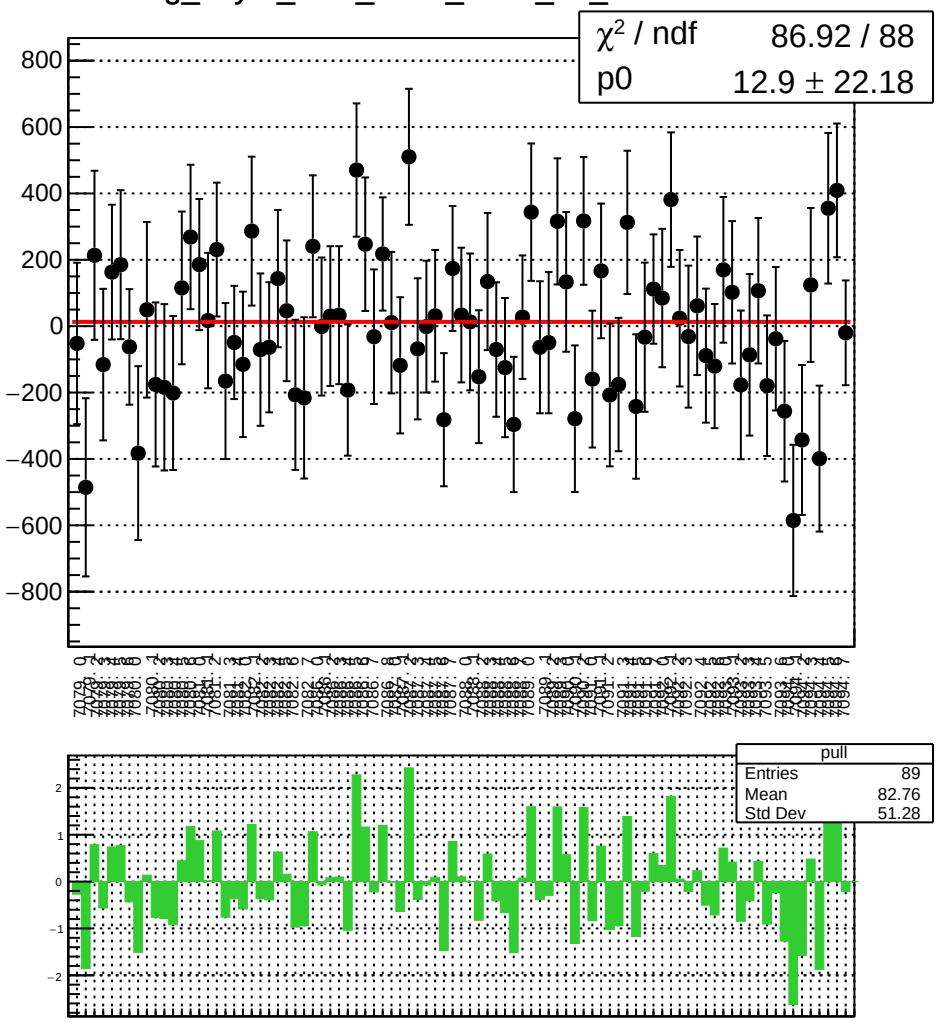

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.449e+04 / 88
p0 57.47 ± 0.04555
180
160
140
120
100
80
60
40

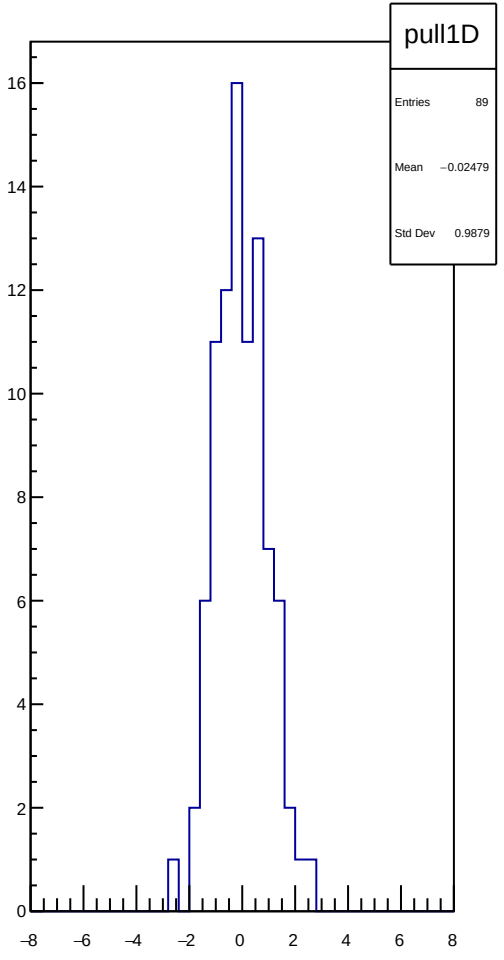

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 88
p0 −0.03659 ± 0.06442
pull
Entries 89
Mean −40.82
Std Dev 0
pull1D
Entries 89
Mean 0.04739
Std Dev 1.083

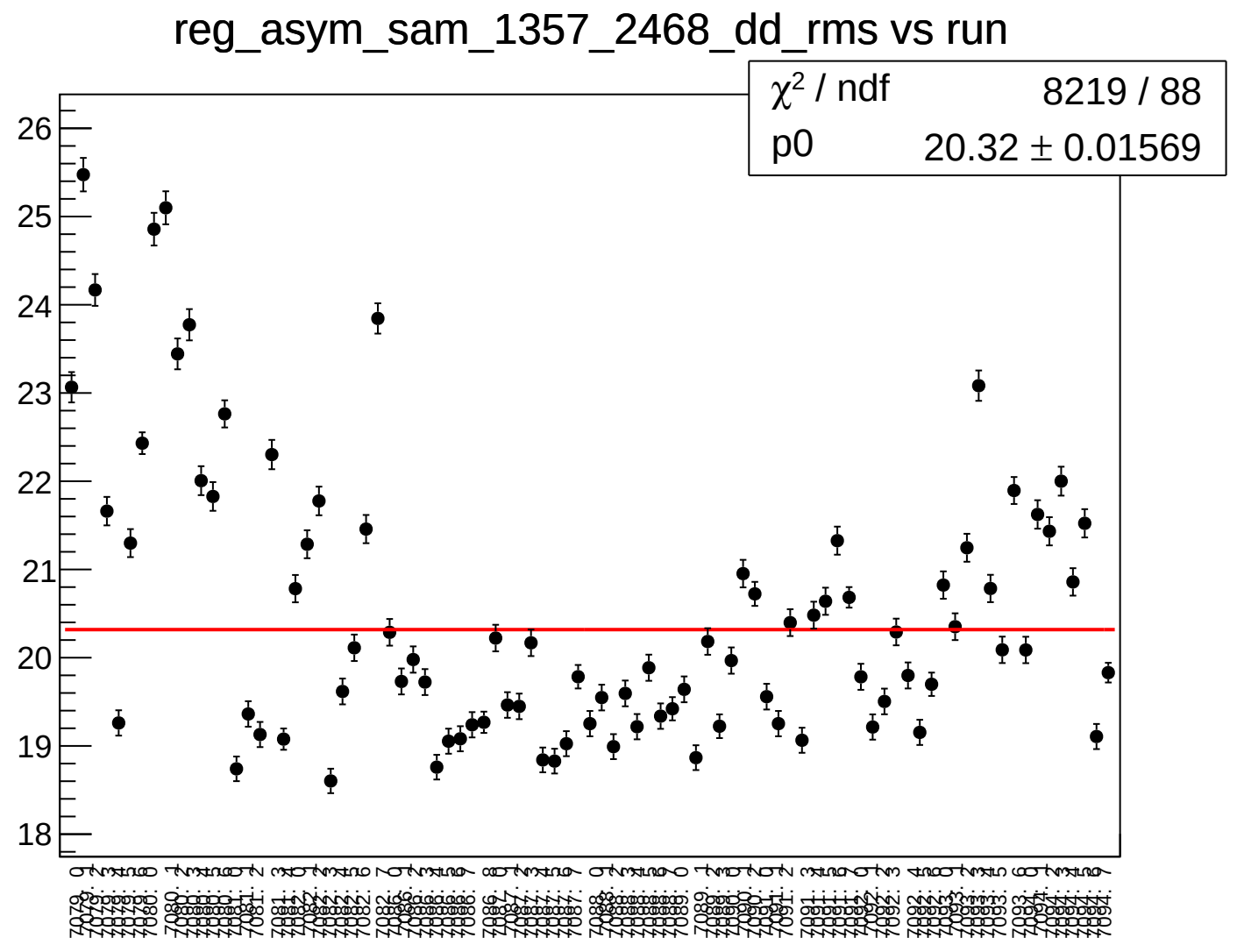

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.449e+04 / 88
p0 57.47 ± 0.04555
180
160
140
120
100
80
60
40

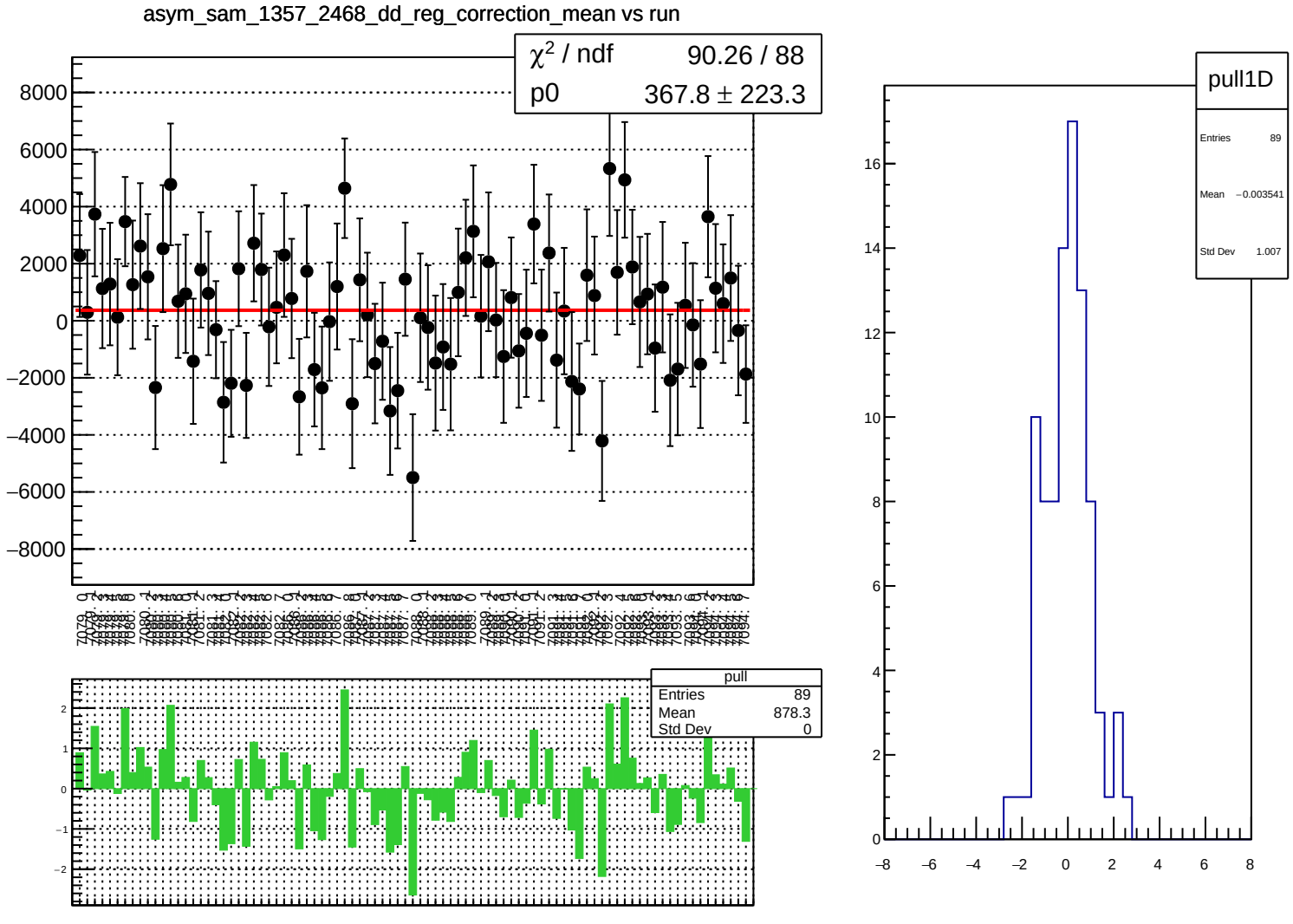

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.94 / 88
p0 1.194e−14 ± 1.54e−14
pull
Entries 89
Mean 93.54
Std Dev 0
pull1D
Entries 89
Mean 0.04359
Std Dev 1.032

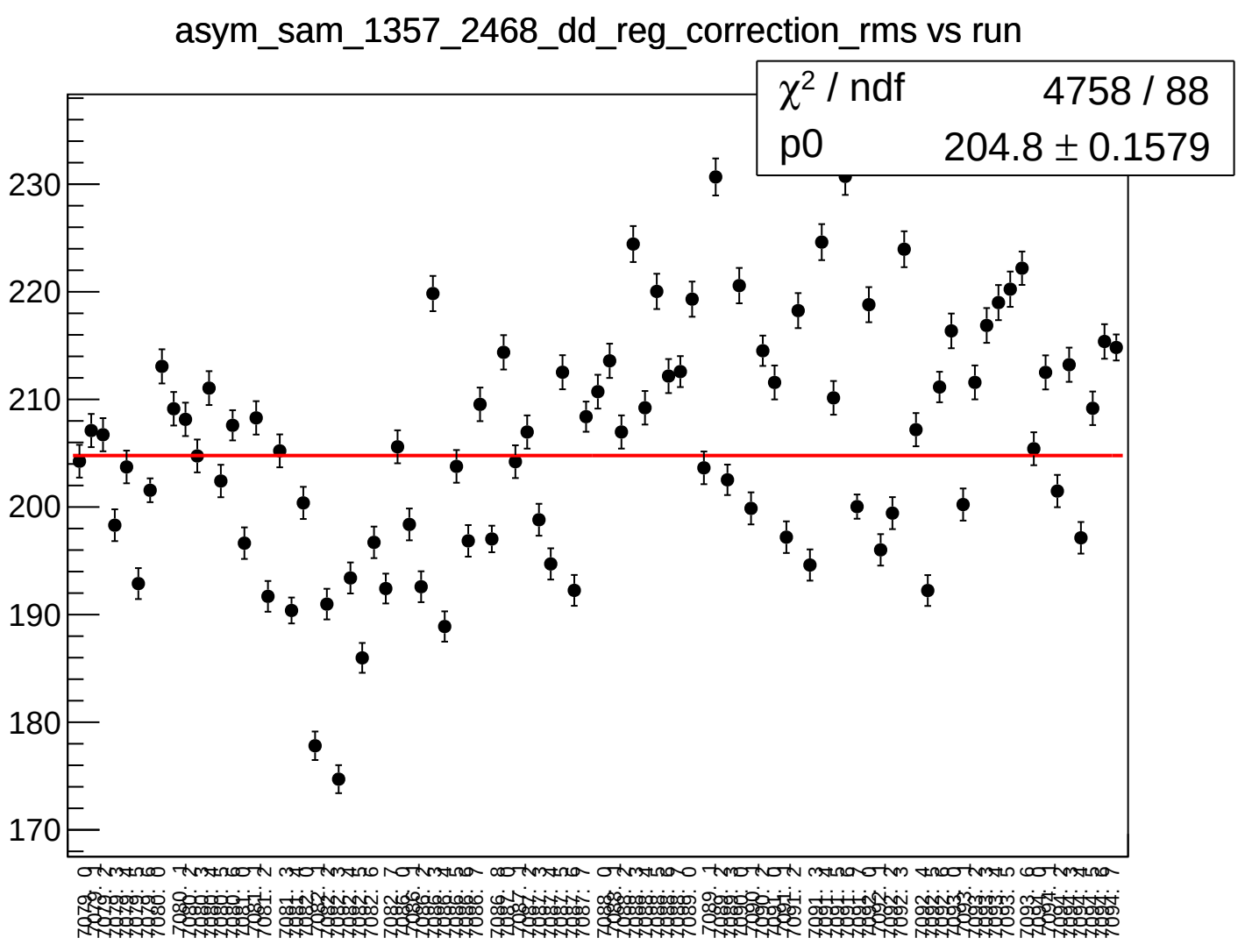

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.34e+05 / 88
p0 1.169e−11 ± 1.089e−14
90
80
70
60
50
40
30
20
10

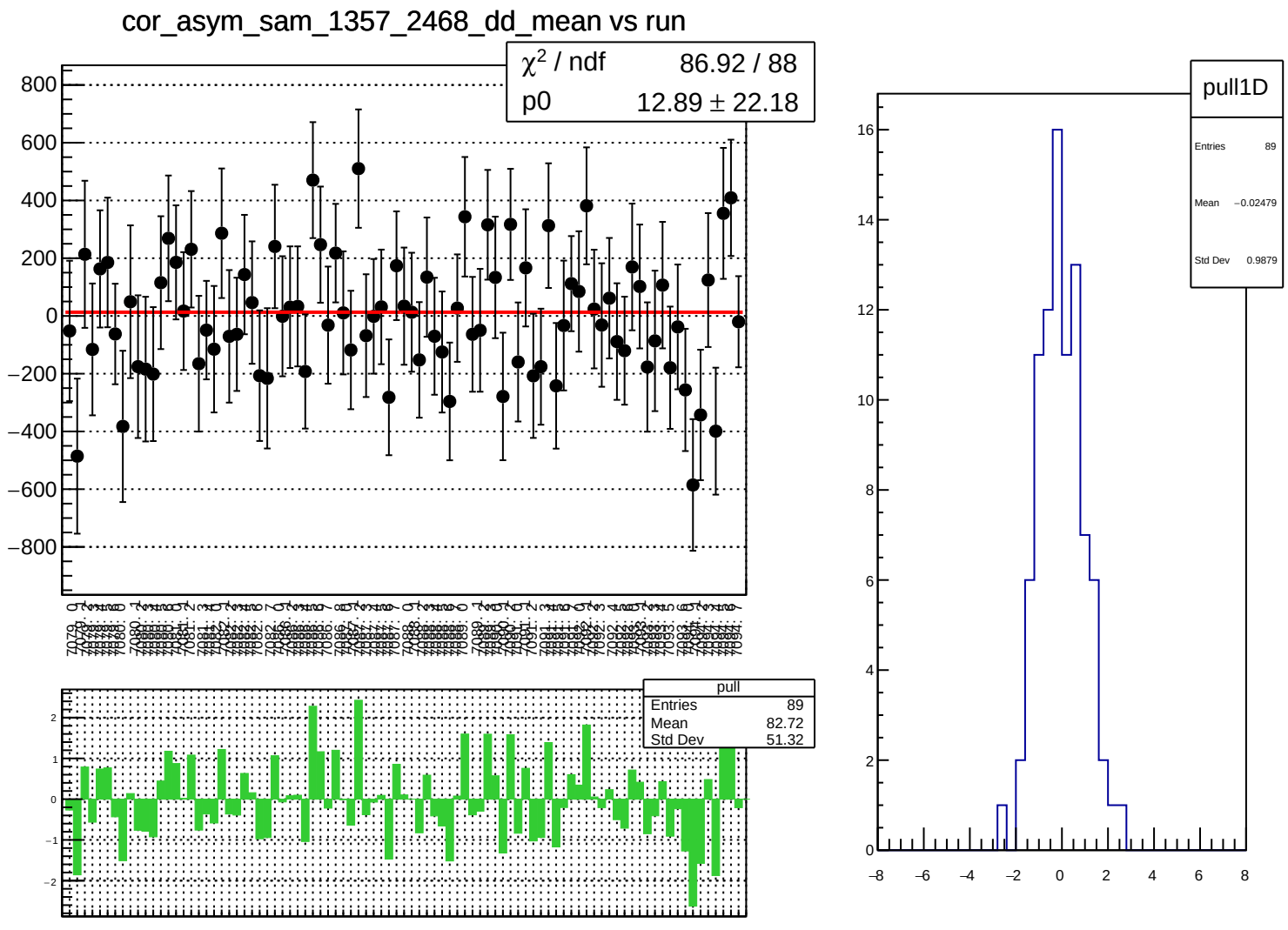

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.92 / 88
p0 12.9 ± 22.18
pull
Entries 89
Mean 82.76
Std Dev 51.28

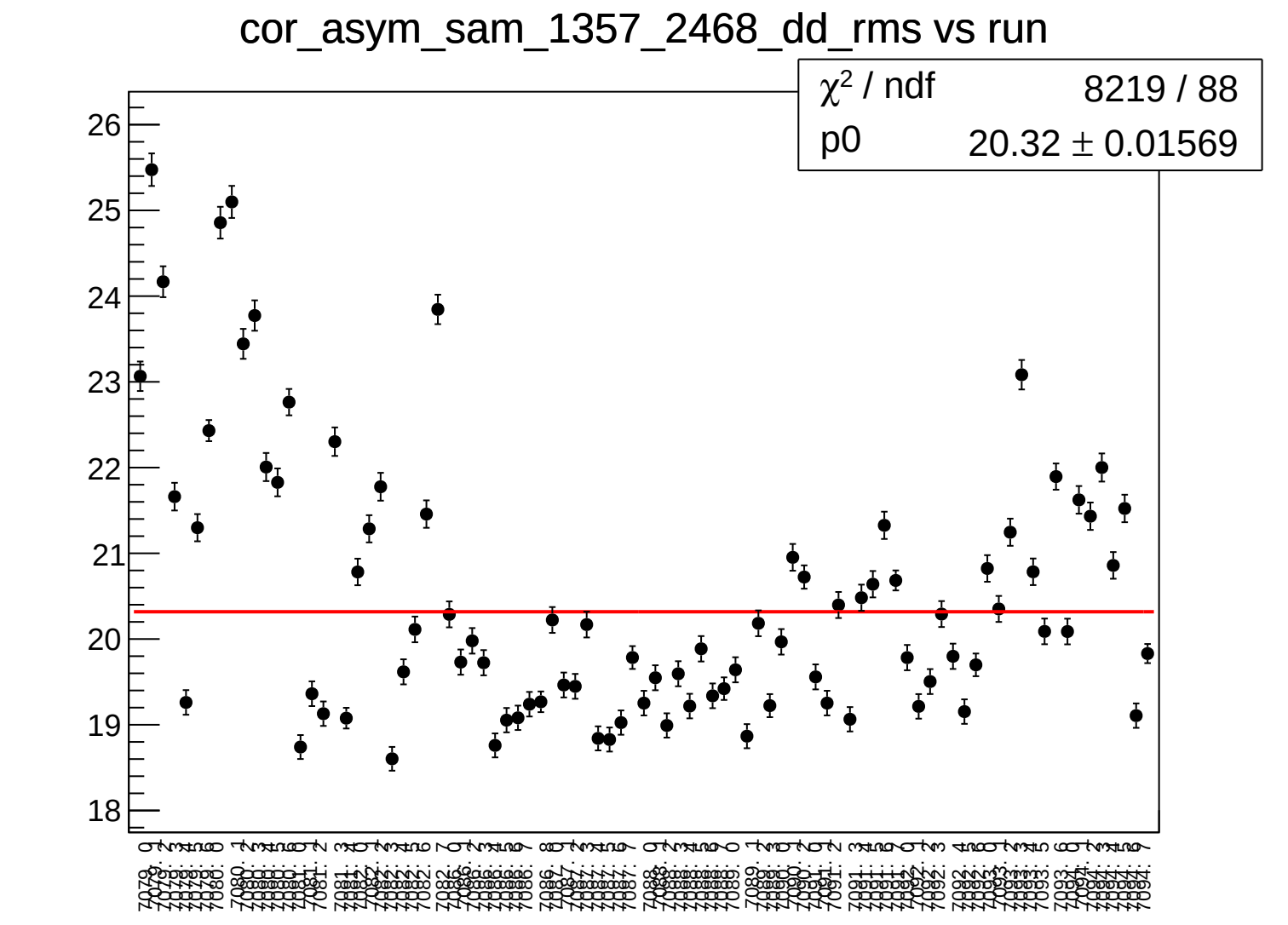

pull1D
Entries 89
Mean −0.02479
Std Dev 0.9879

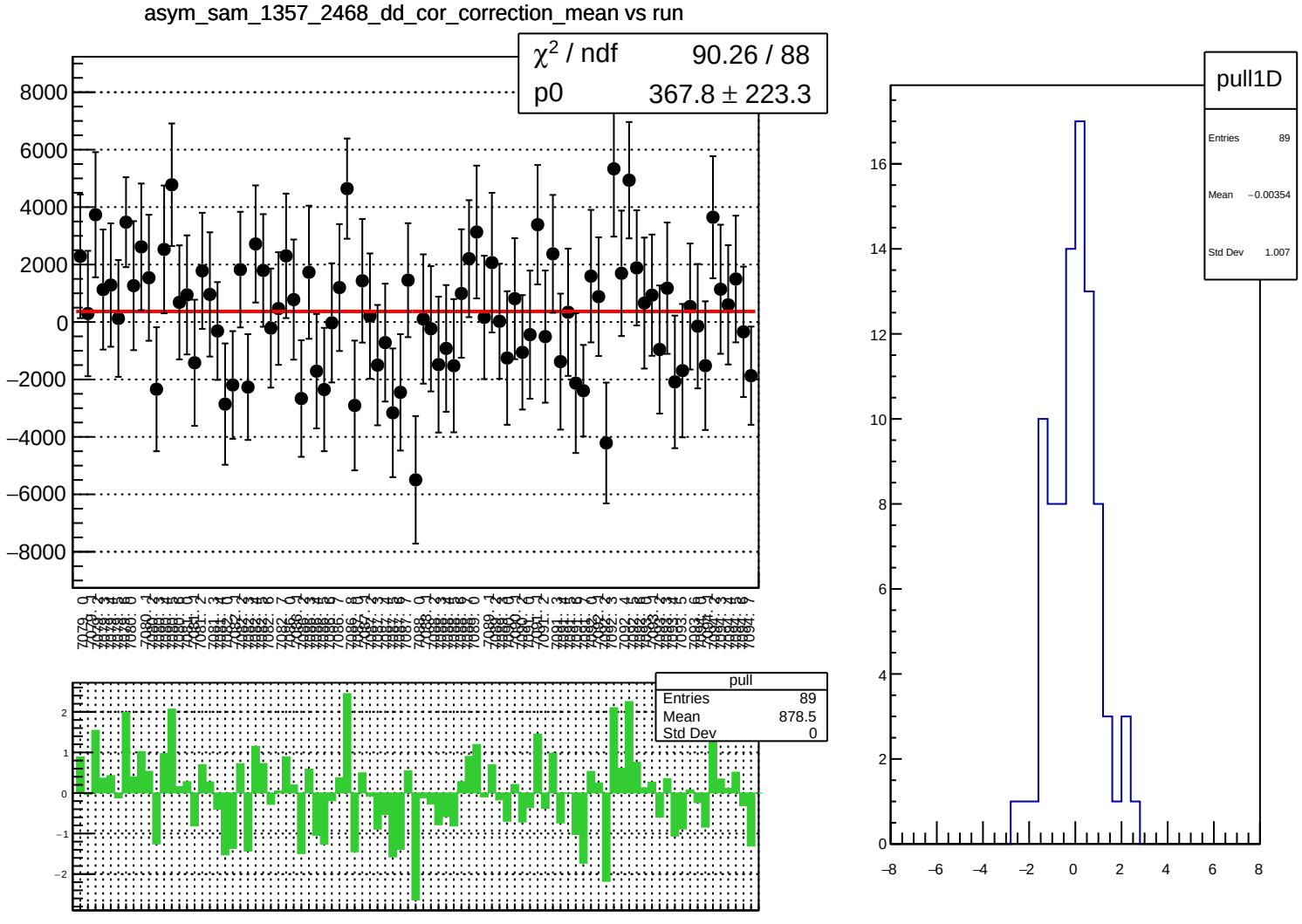

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8219 / 88
p0 20.32 ± 0.01569
26
25
24
23
22
21
20
19
18

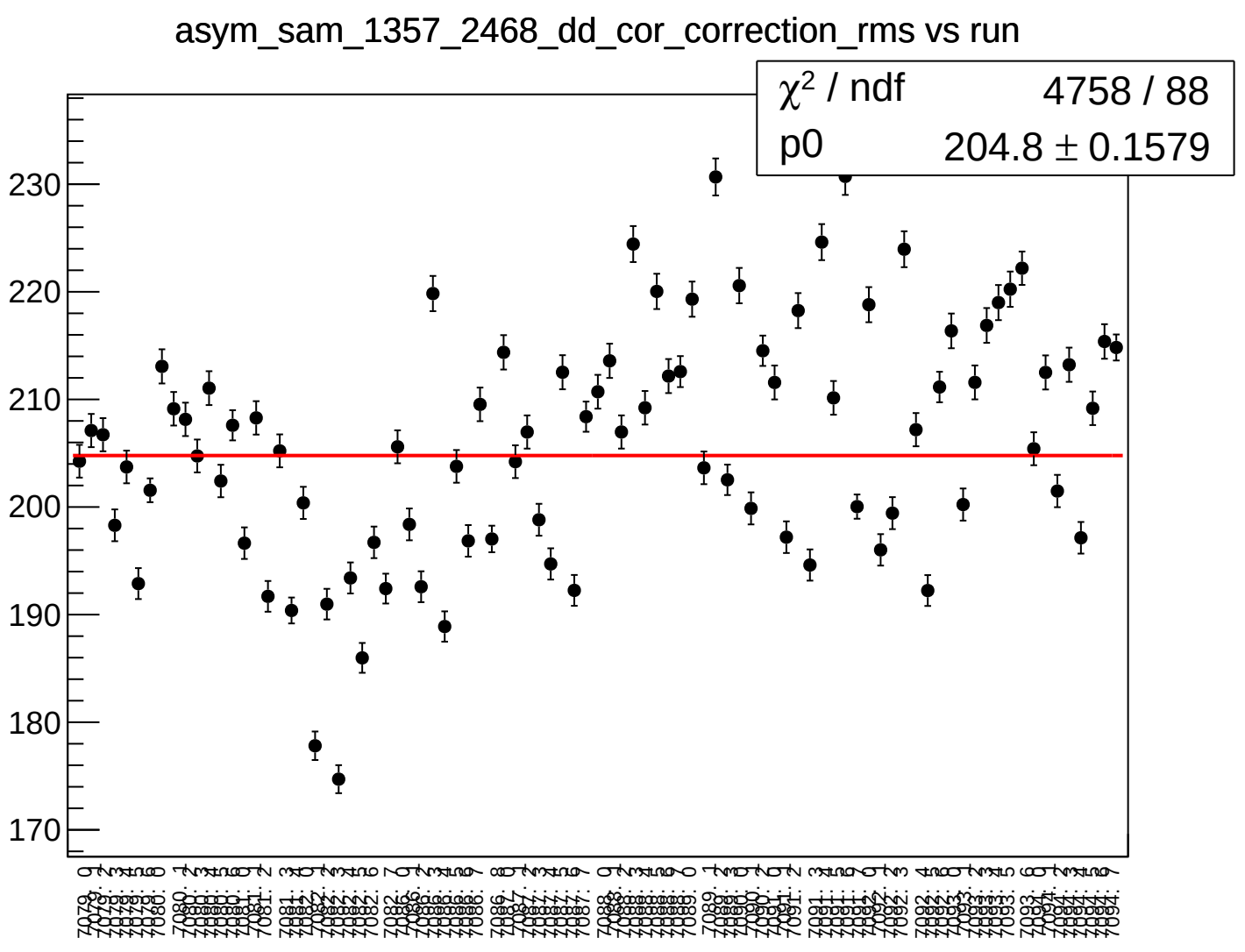

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 90.26 / 88
p0 367.8 ± 223.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean 878.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.003541
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

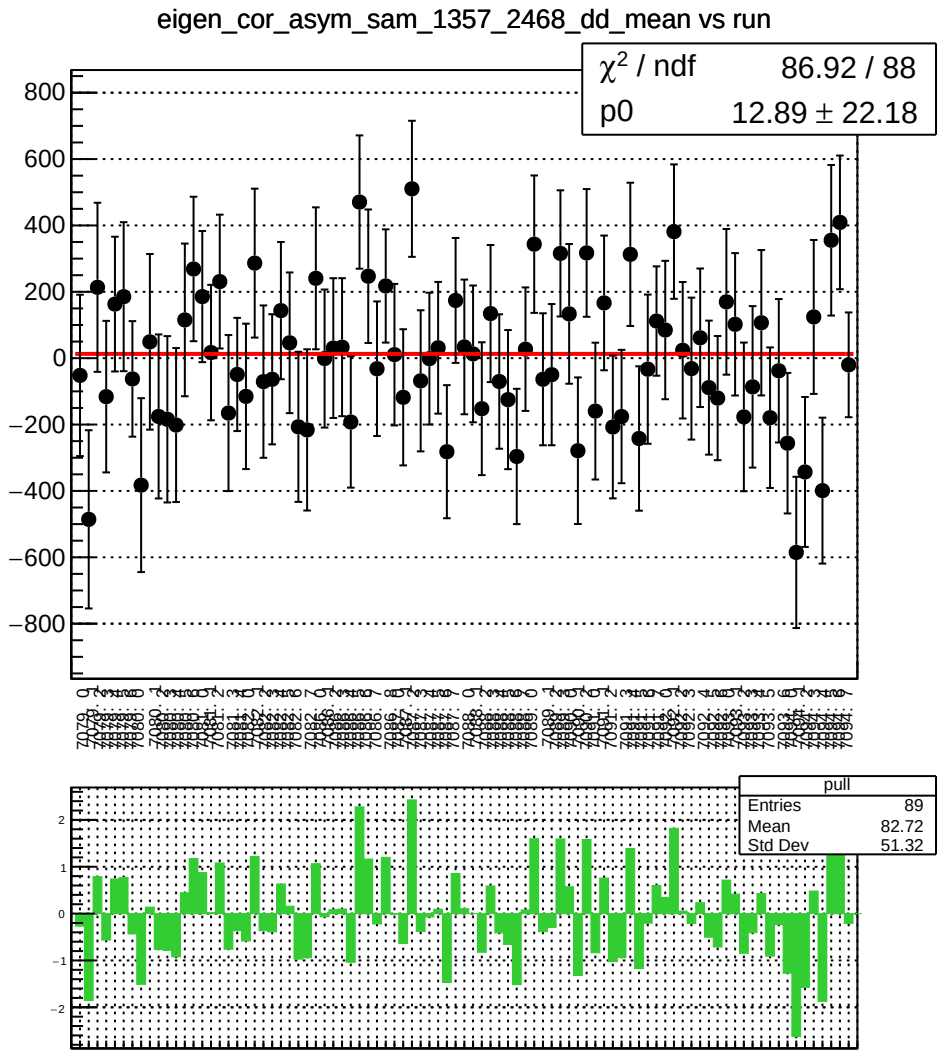

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 4758 / 88
p0 204.8 ± 0.1579
230
220
210
200
190
180
170

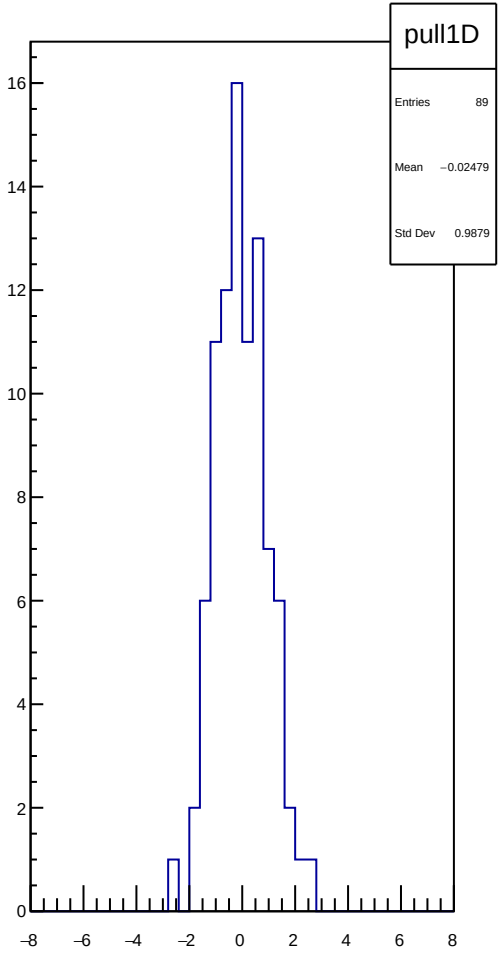

cor_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 86.92 / 88
p0 12.89 ± 22.18
pull
Entries 89
Mean 82.72
Std Dev 51.32
pull1D
Entries 89
Mean −0.02479
Std Dev 0.9879

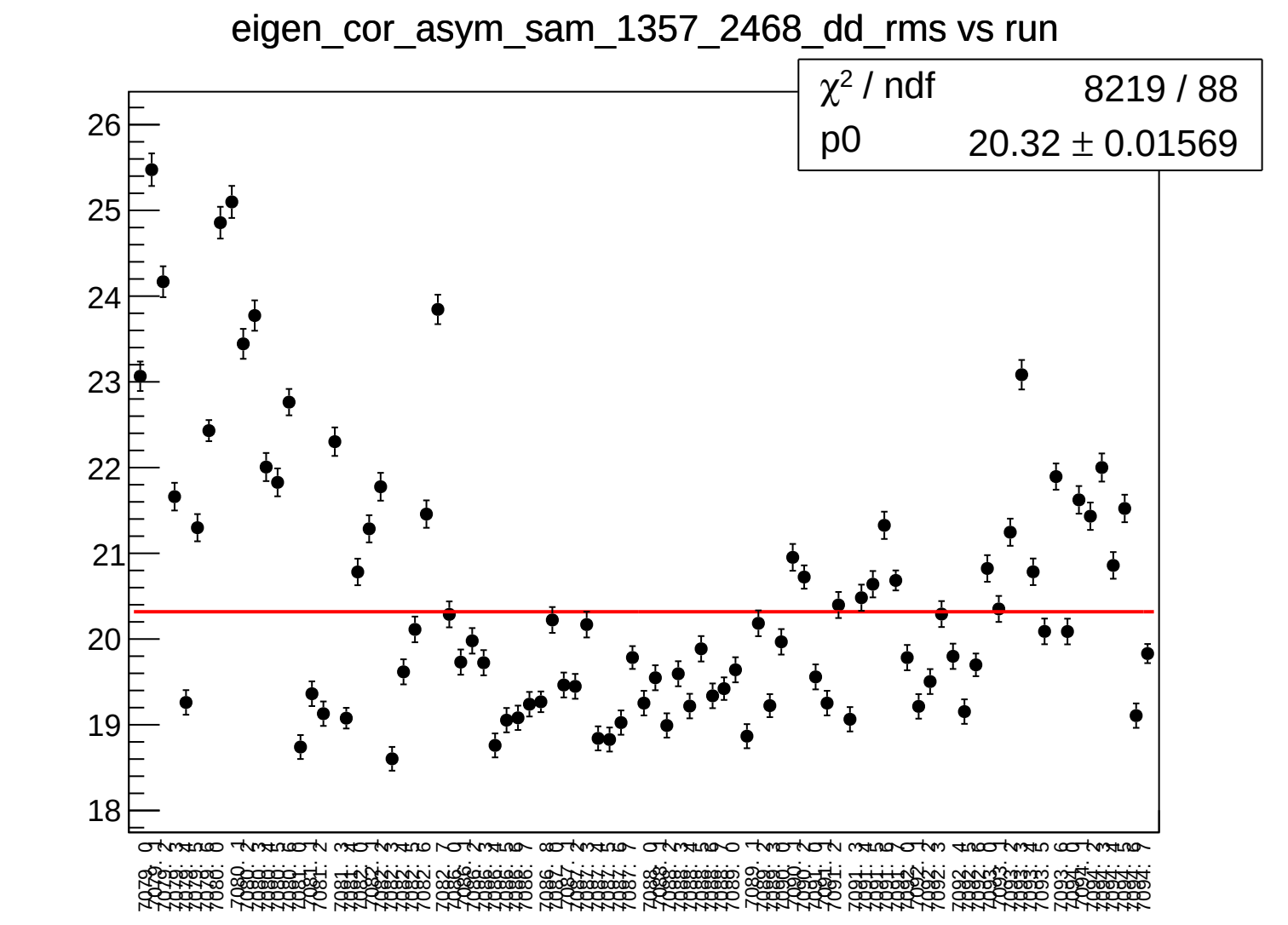

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8219 / 88
p0 20.32 ± 0.01569
26
25
24
23
22
21
20
19
18

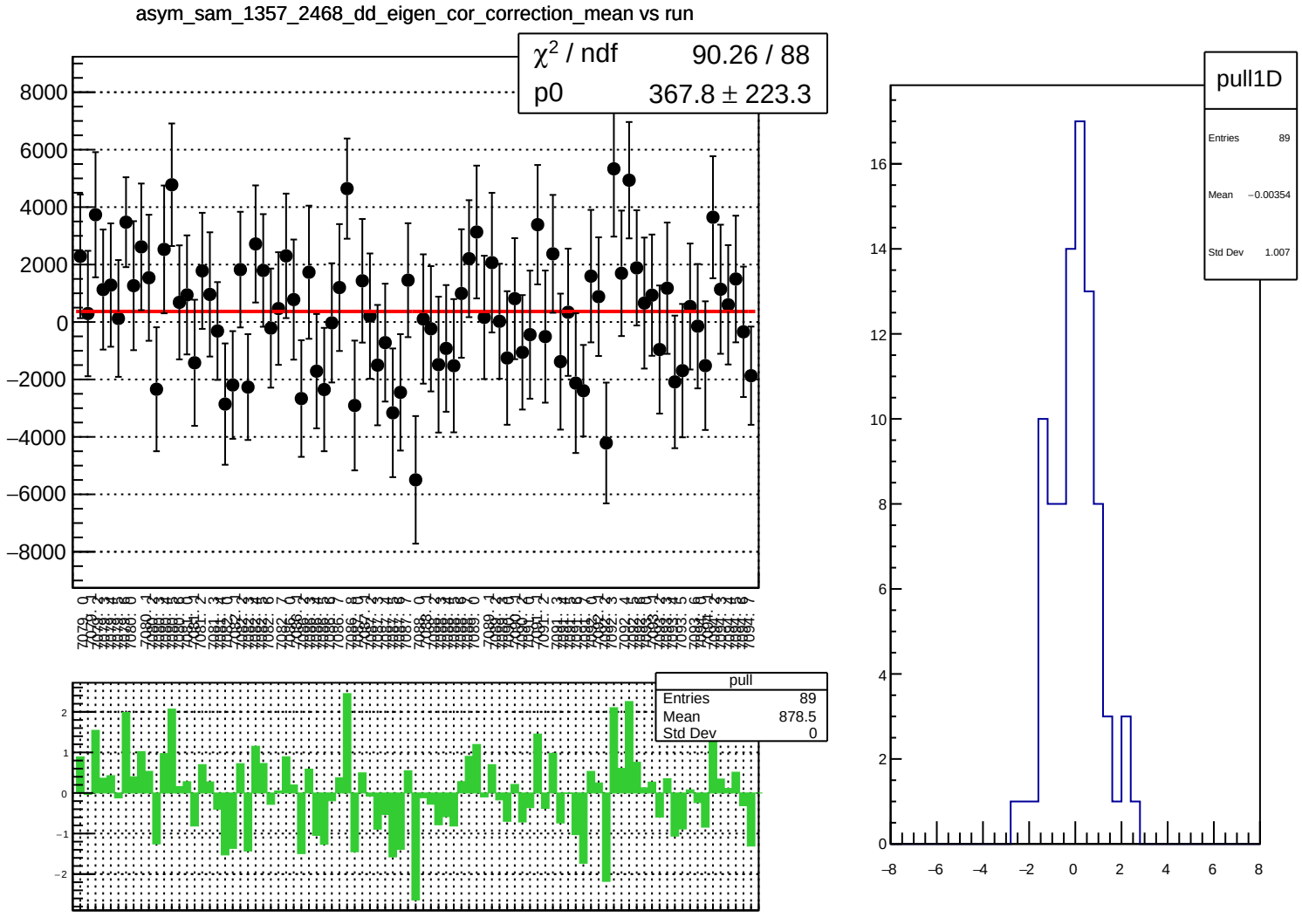

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 90.26 / 88
p0 367.8 ± 223.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean 878.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.00354
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

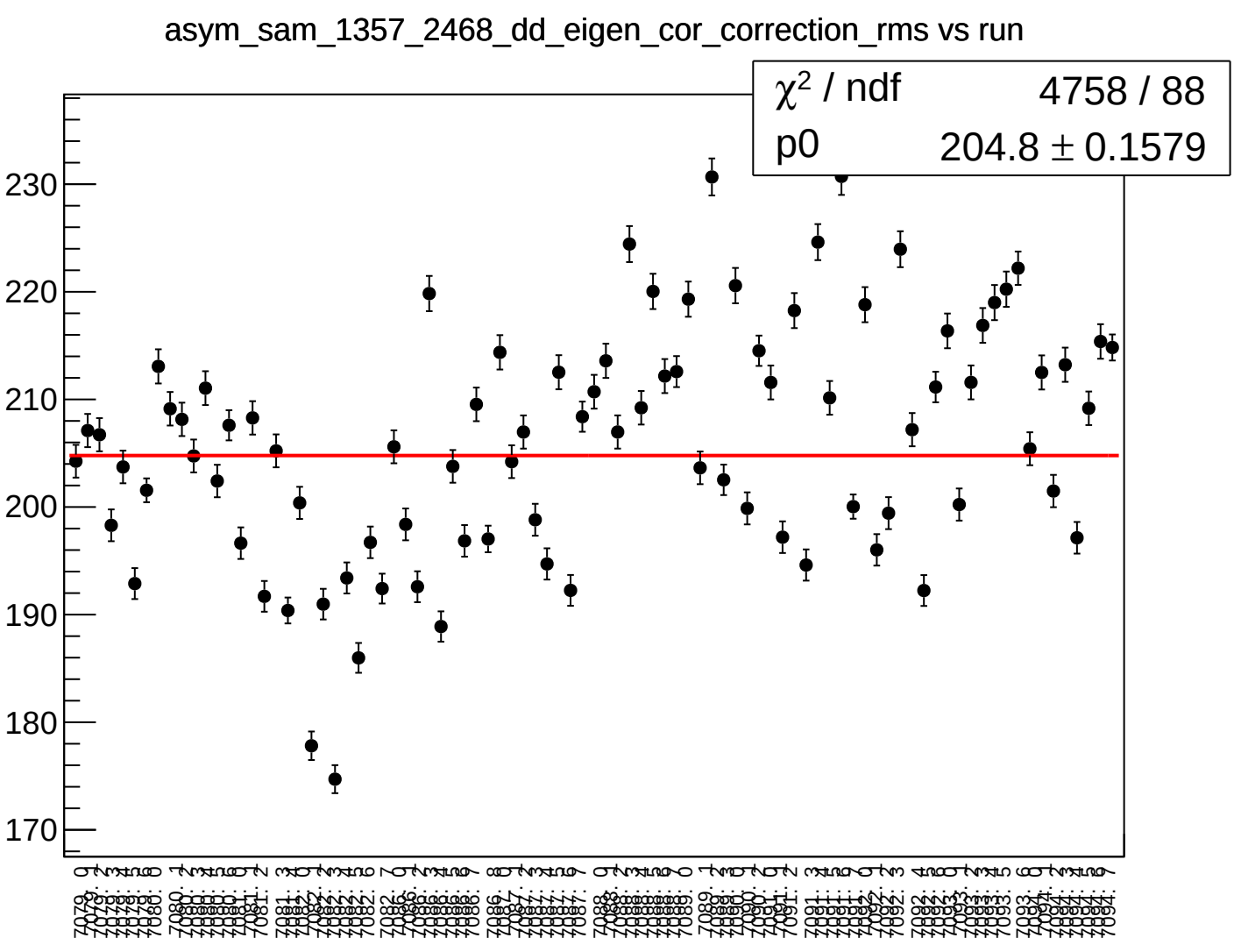

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 4758 / 88
p0 204.8 ± 0.1579
230
220
210
200
190
180
170

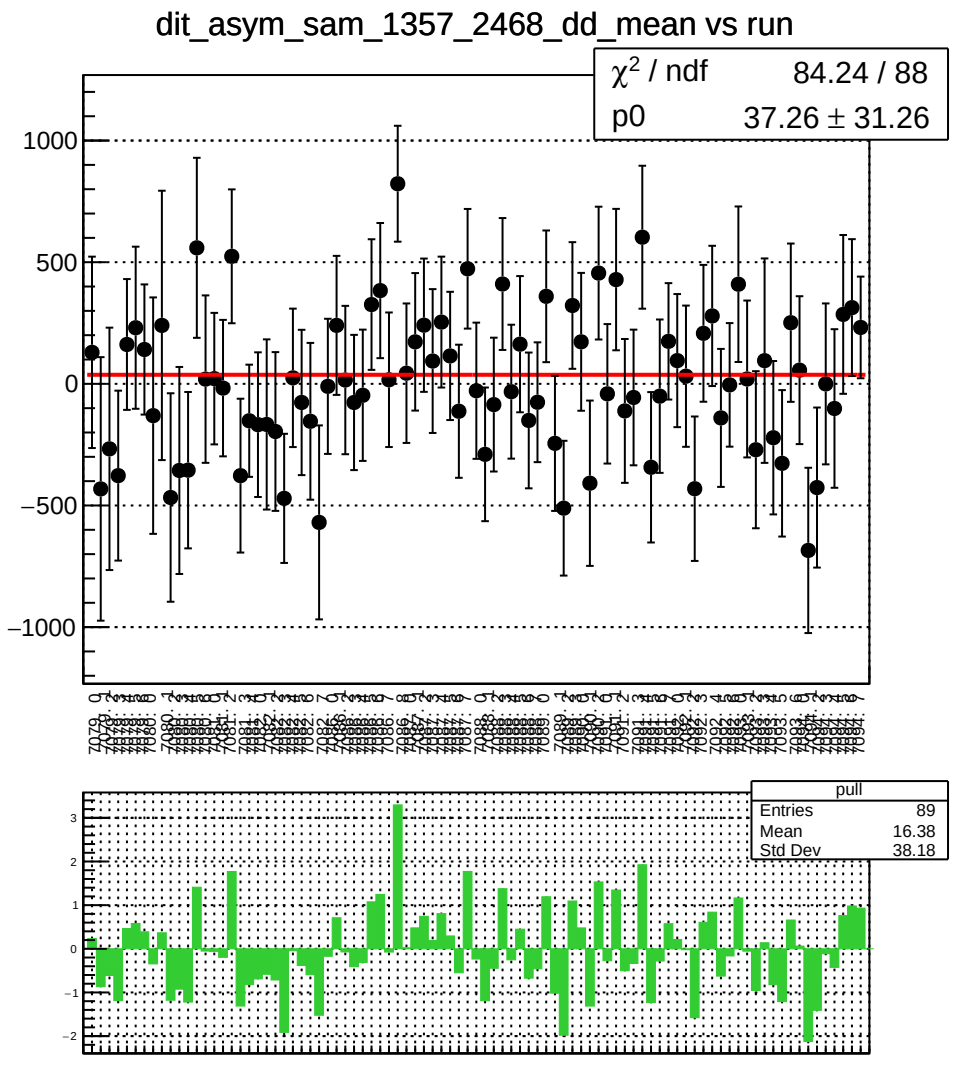

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.92 / 88
p0 12.89 ± 22.18
pull
Entries 89
Mean 82.72
Std Dev 51.32

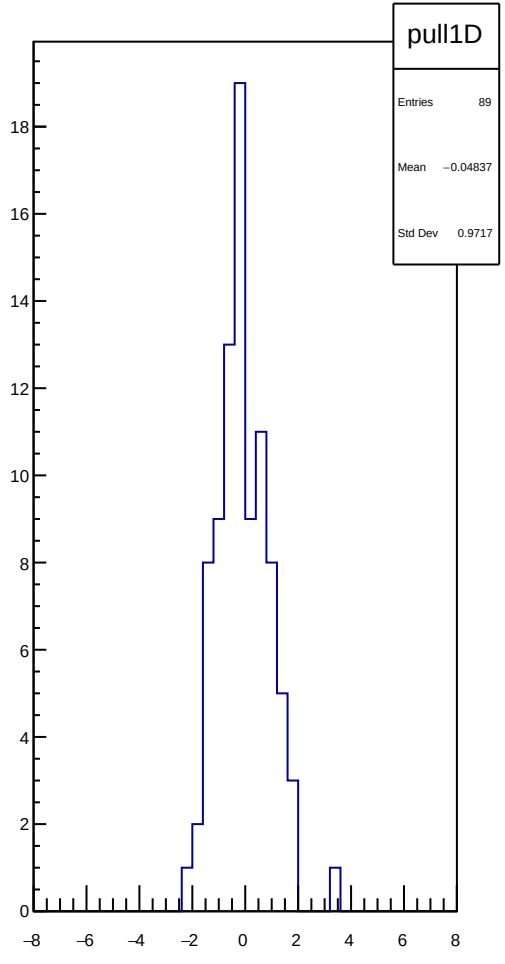

pull1D
Entries 89
Mean −0.02479
Std Dev 0.9879

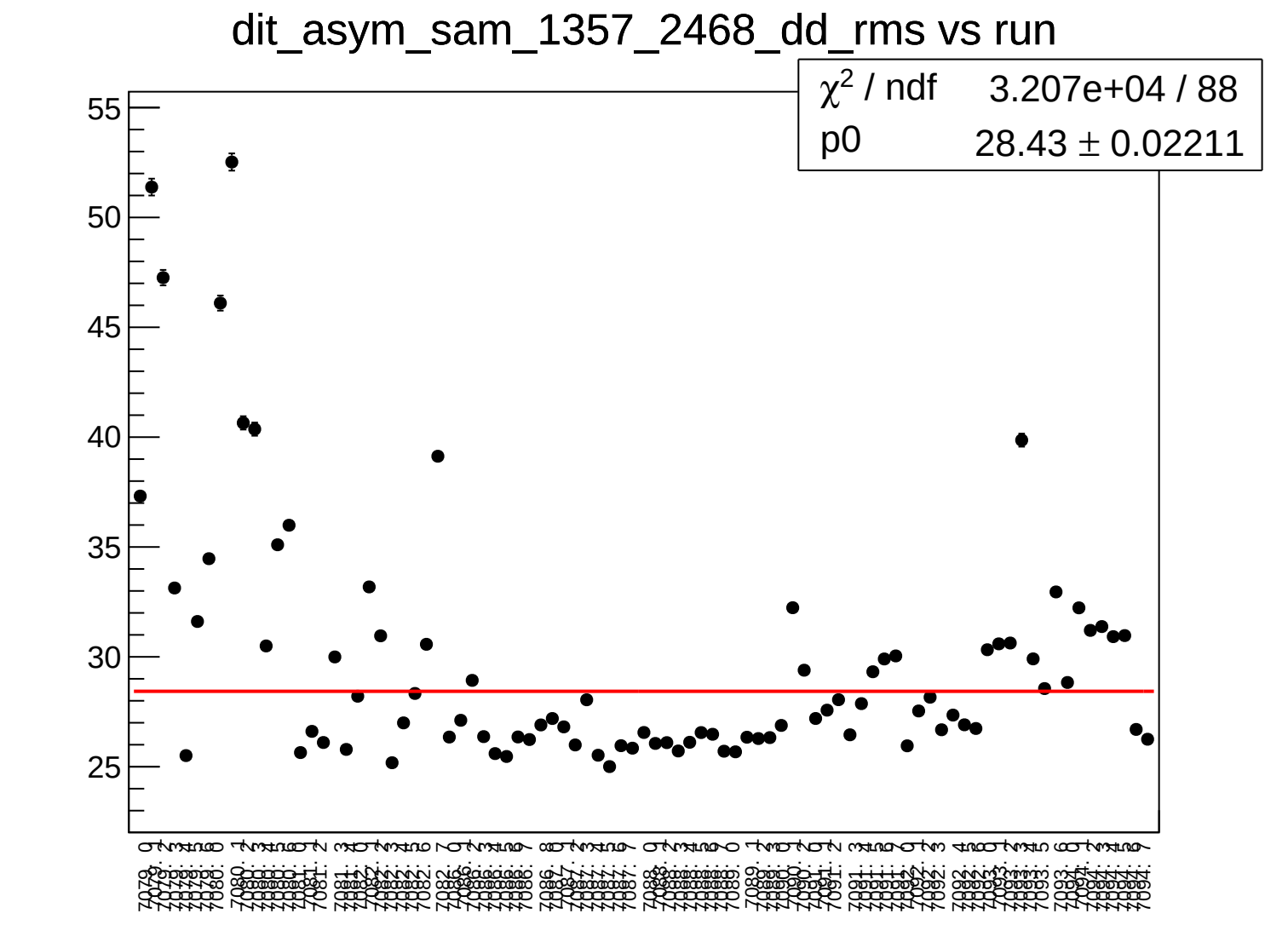

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8219 / 88
p0 20.32 ± 0.01569
26
25
24
23
22
21
20
19
18

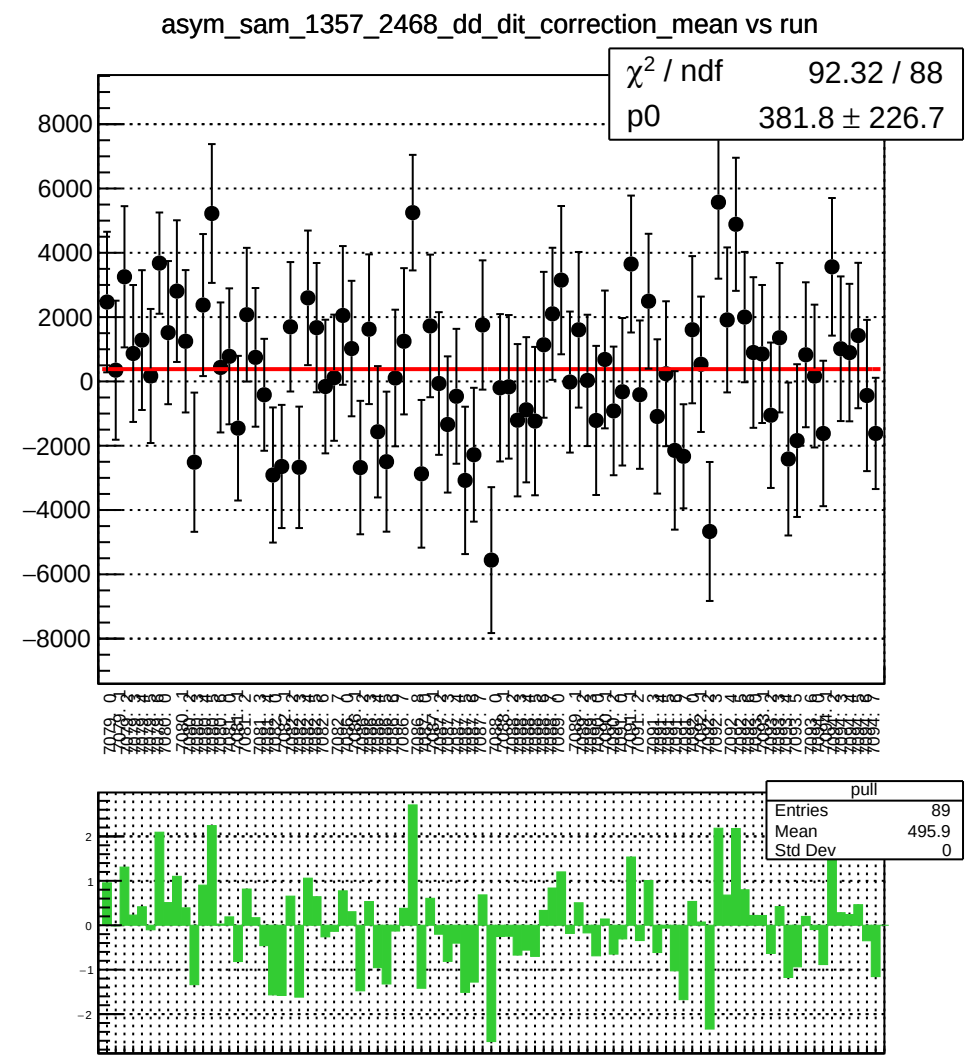

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.26 / 88
p0 367.8 ± 223.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean 878.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.00354
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

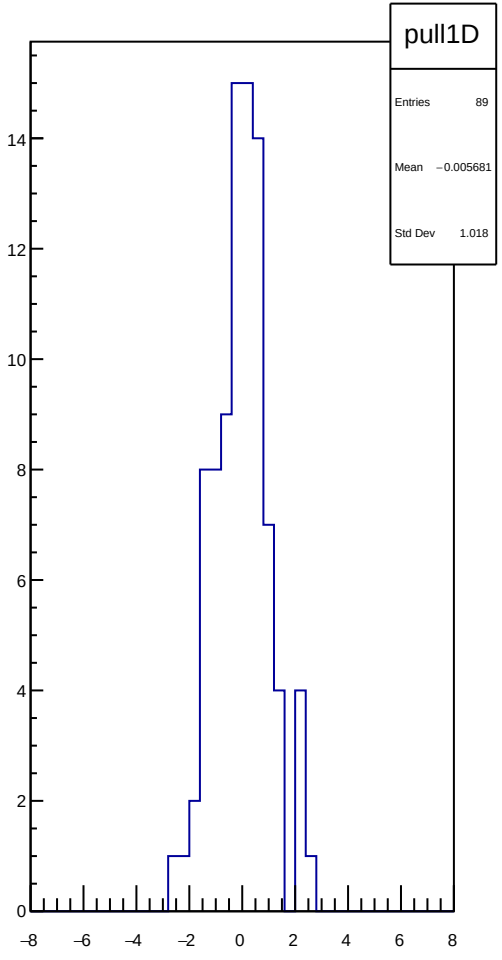

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 4758 / 88
p0 204.8 ± 0.1579
230
220
210
200
190
180
170

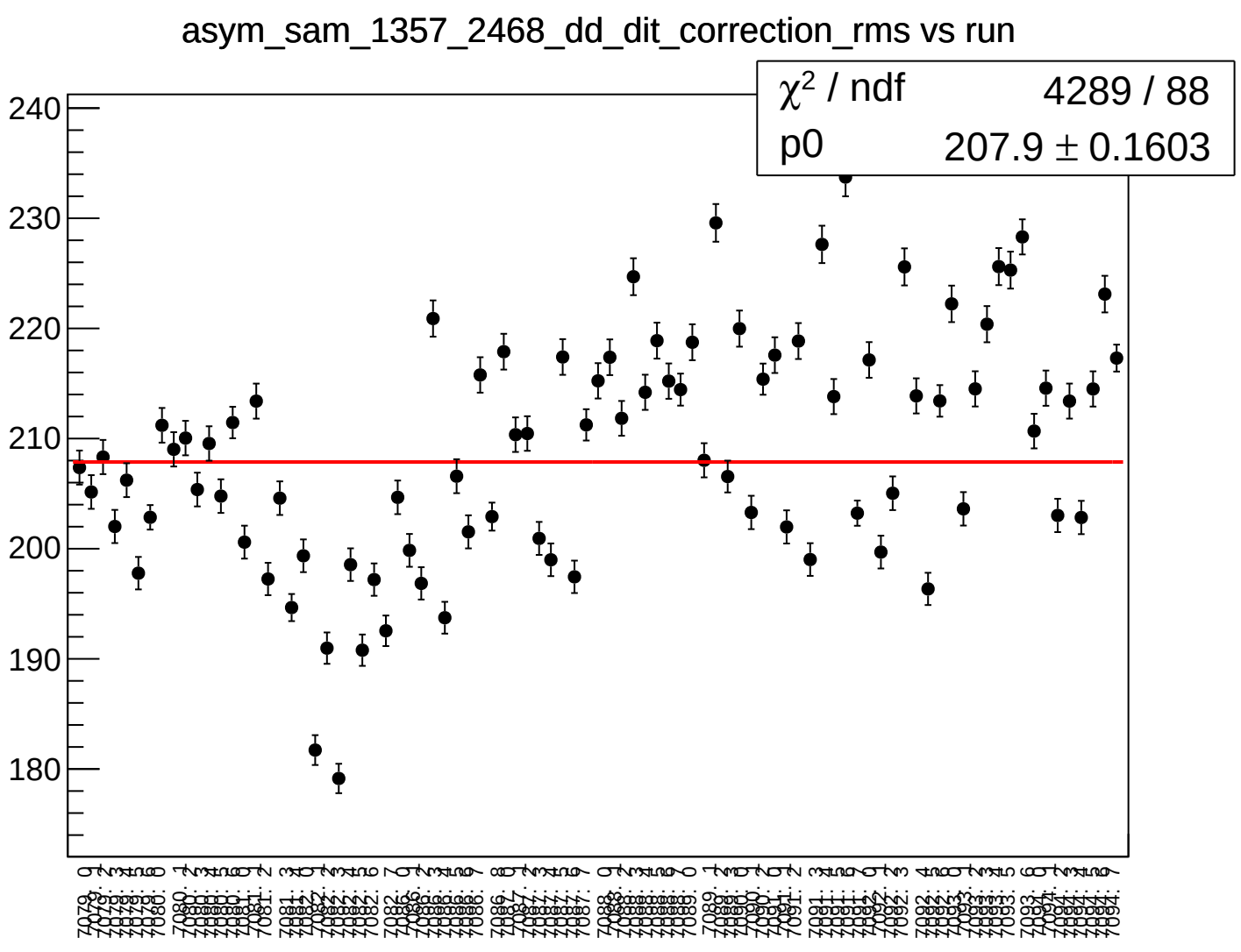

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 84.24 / 88
p0 37.26 ± 31.26
1000
500
0
−500
−1000
pull
Entries 89
Mean 16.38
Std Dev 38.18
3
2
1
0
−1
−2

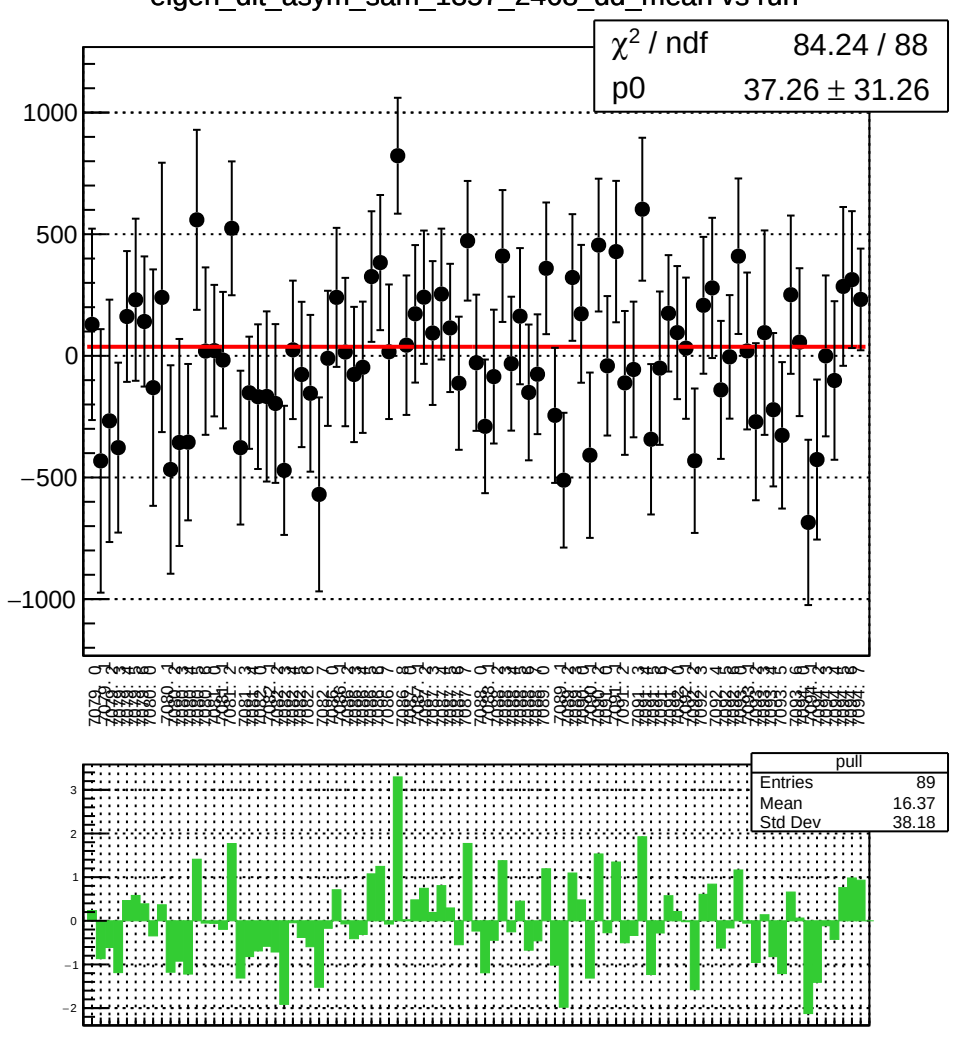

pull1D
Entries 89
Mean −0.04837
Std Dev 0.9717
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

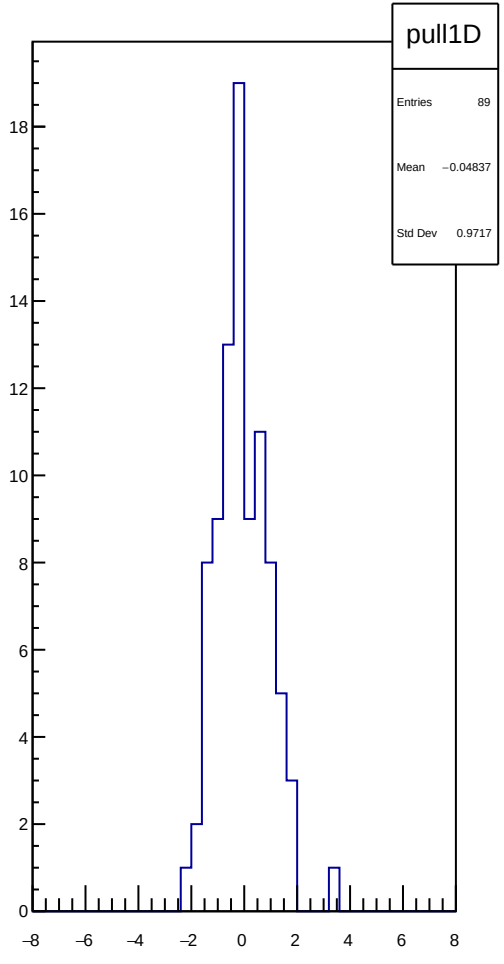

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.207e+04 / 88
p0 28.43 ± 0.02211
55
50
45
40
35
30
25

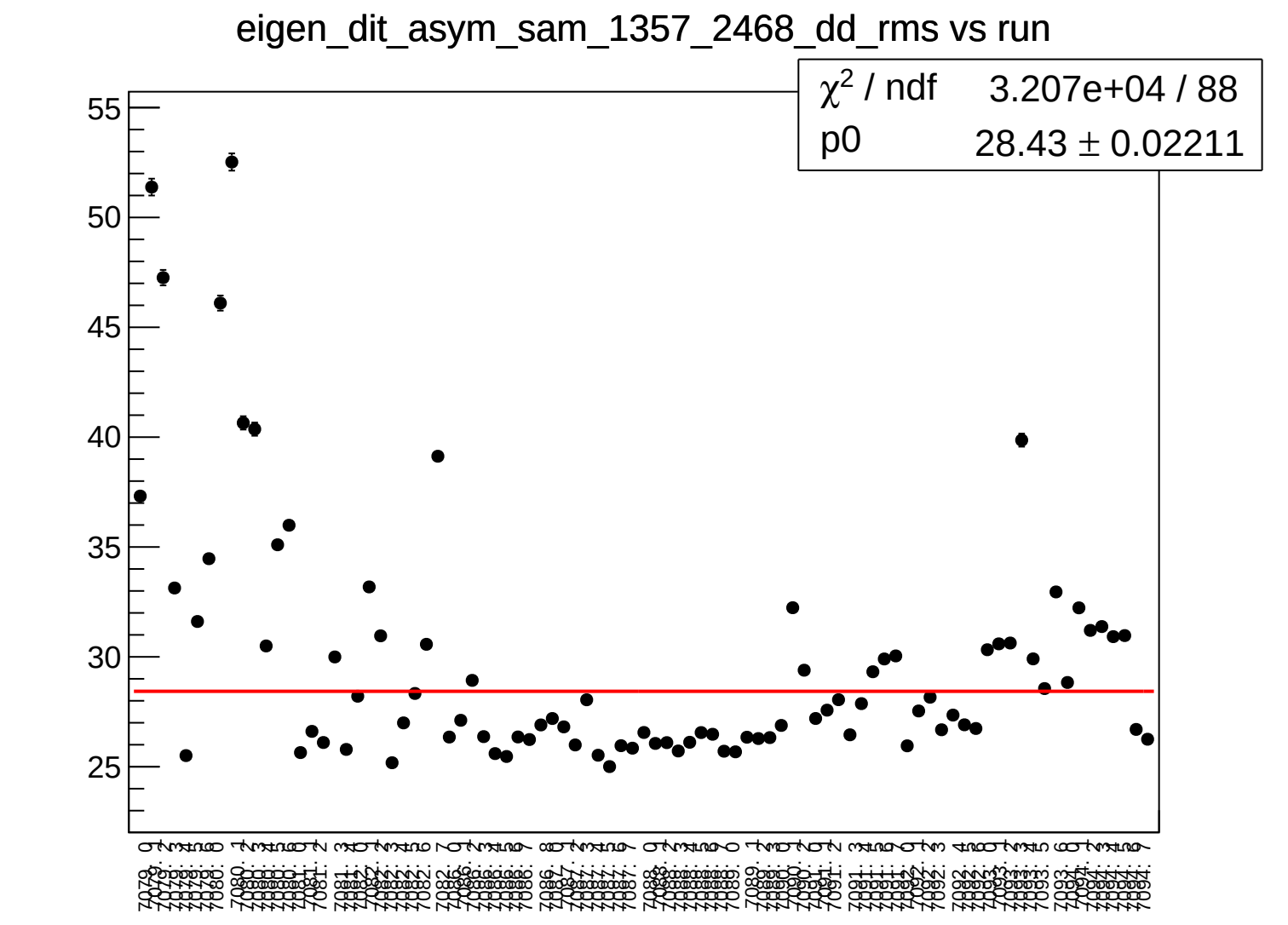

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 92.32 / 88
p0 381.8 ± 226.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean 495.9
Std Dev 0
2
1
0
−1
−2

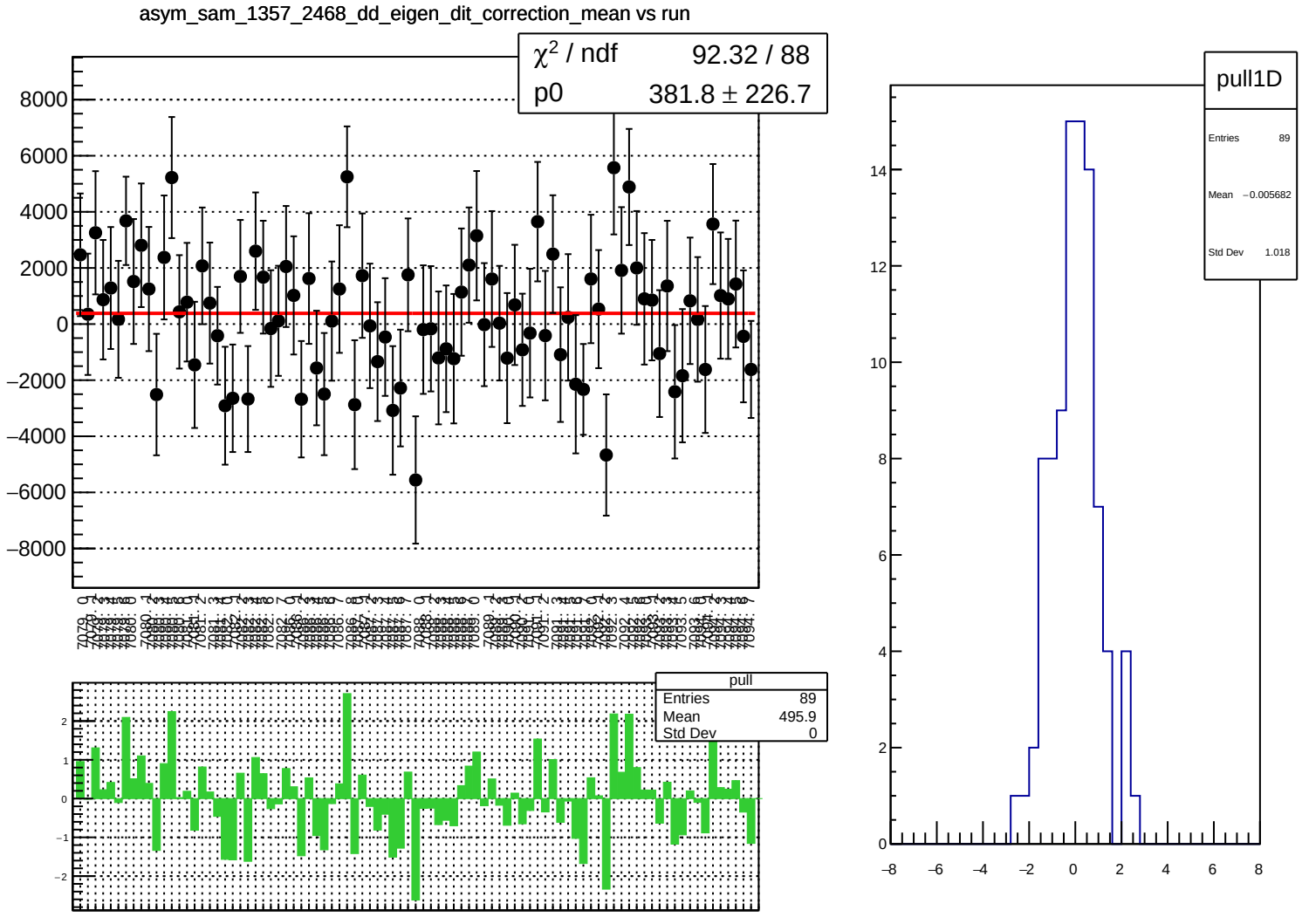

pull1D
Entries 89
Mean −0.005681
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

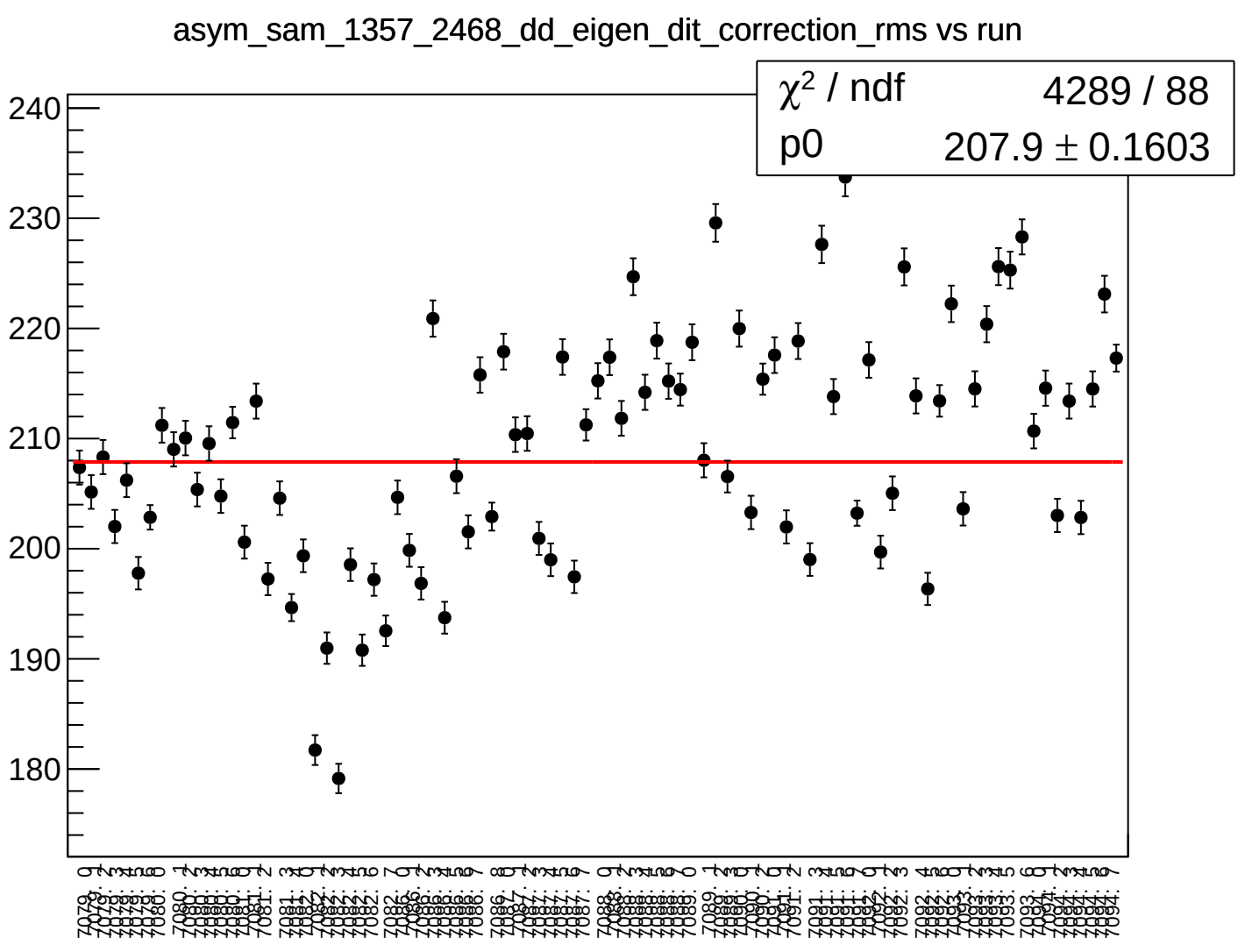

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 4289 / 88
p0 207.9 ± 0.1603
240
230
220
210
200
190
180

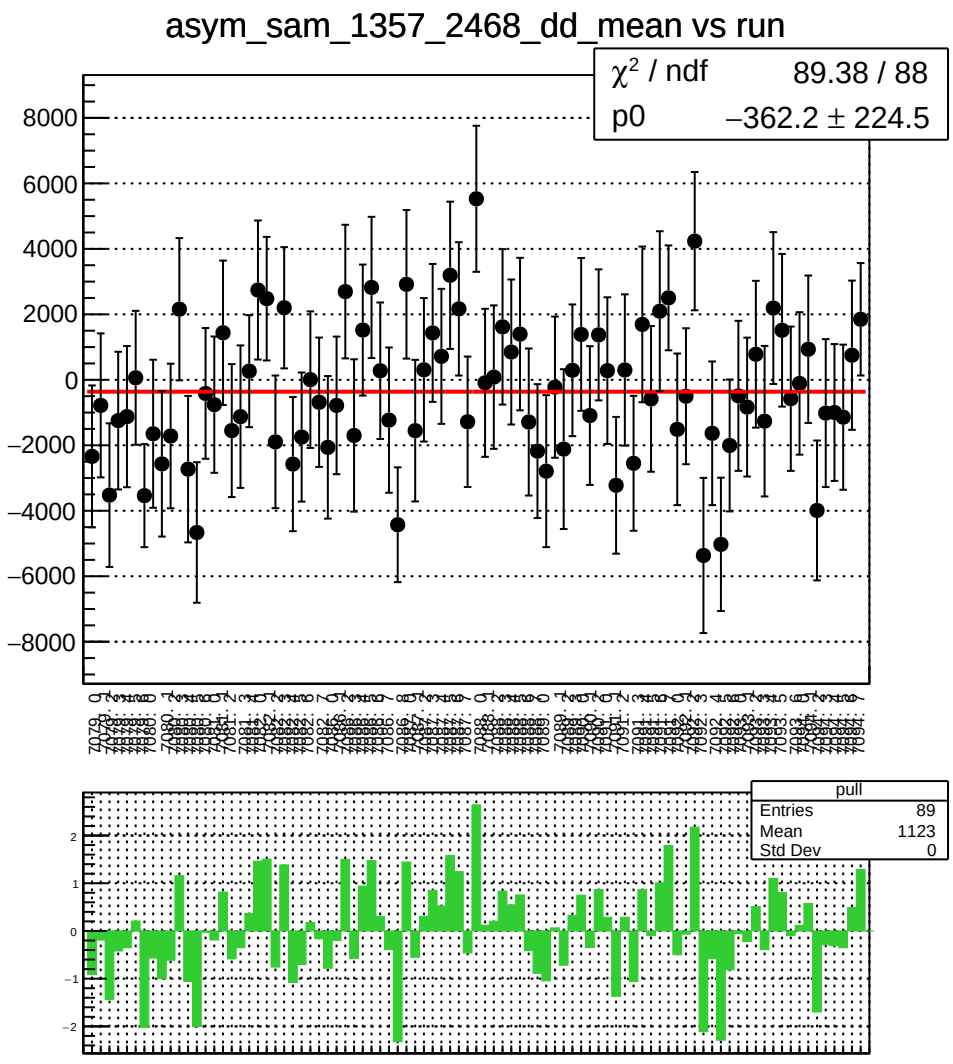

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 84.24 / 88
p0 37.26 ± 31.26
1000
500
0
−500
−1000
pull
Entries 89
Mean 16.37
Std Dev 38.18
3
2
1
0
−1
−2

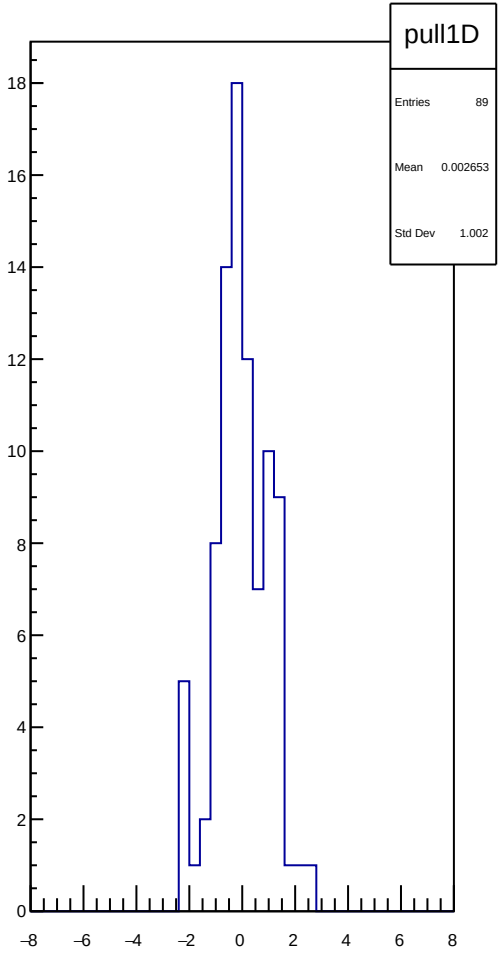

pull1D
Entries 89
Mean −0.04837
Std Dev 0.9717
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

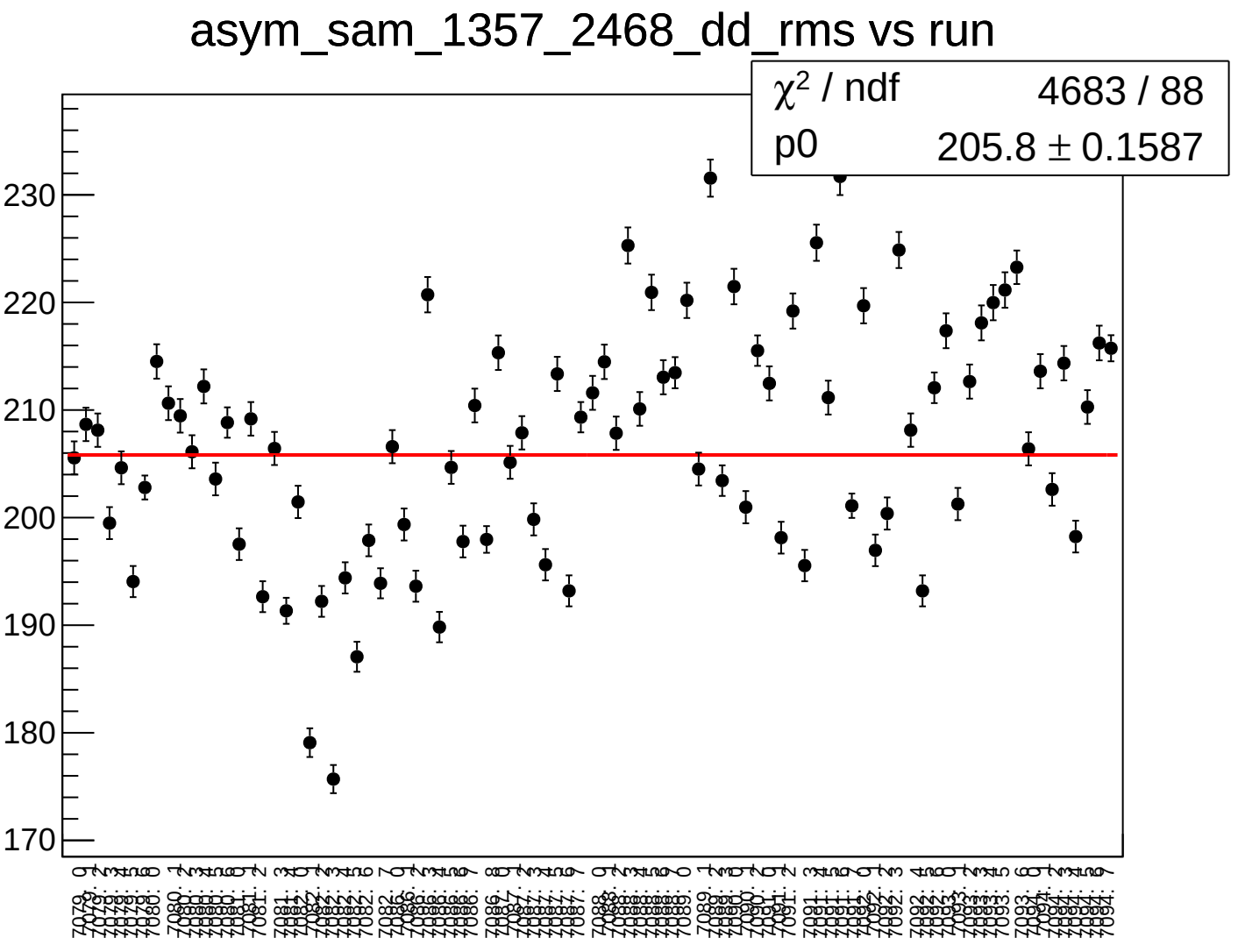

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.207e+04 / 88
p0 28.43 ± 0.02211
55
50
45
40
35
30
25

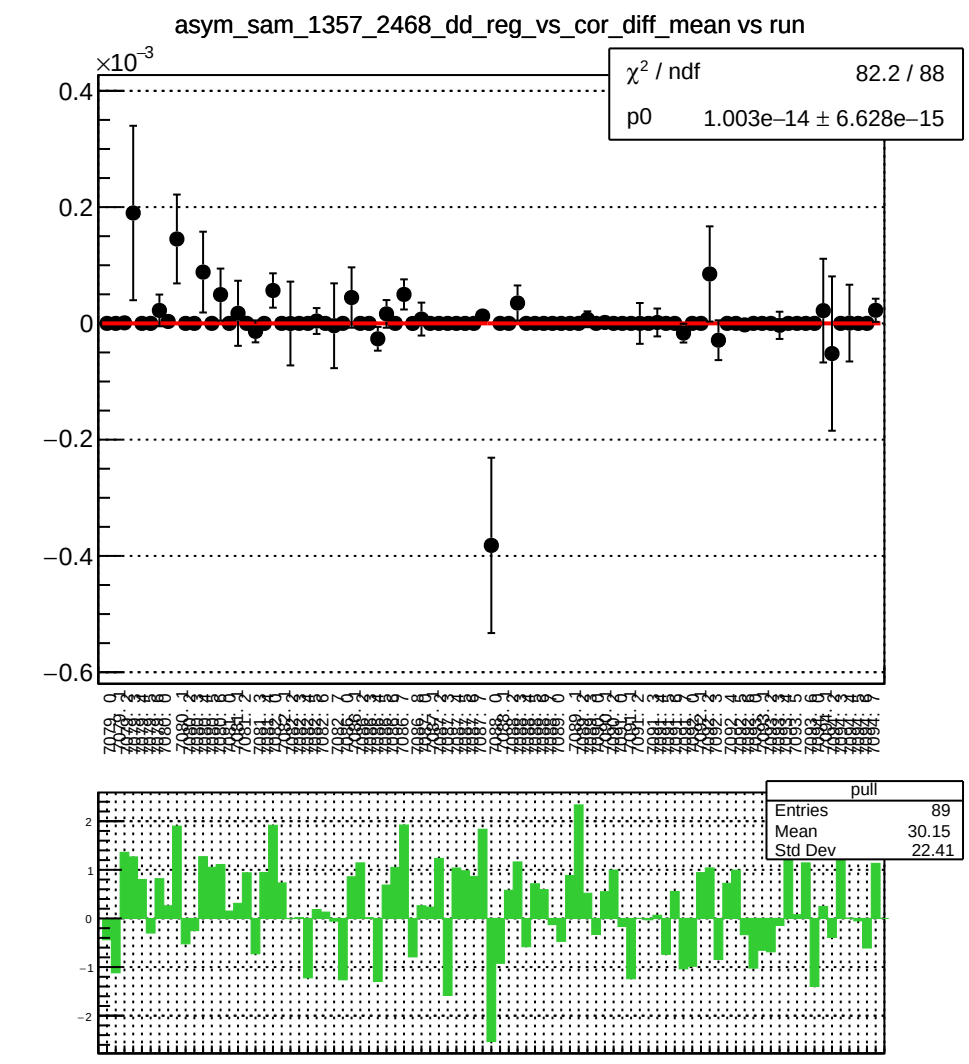

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.32 / 88
p0 381.8 ± 226.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean 495.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.005682
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

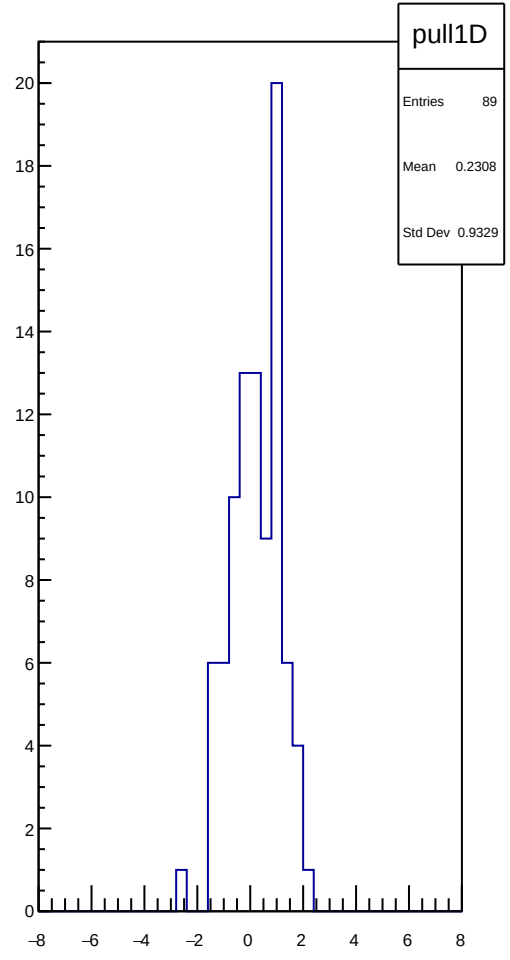

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 4289 / 88
p0 207.9 ± 0.1603
240
230
220
210
200
190
180

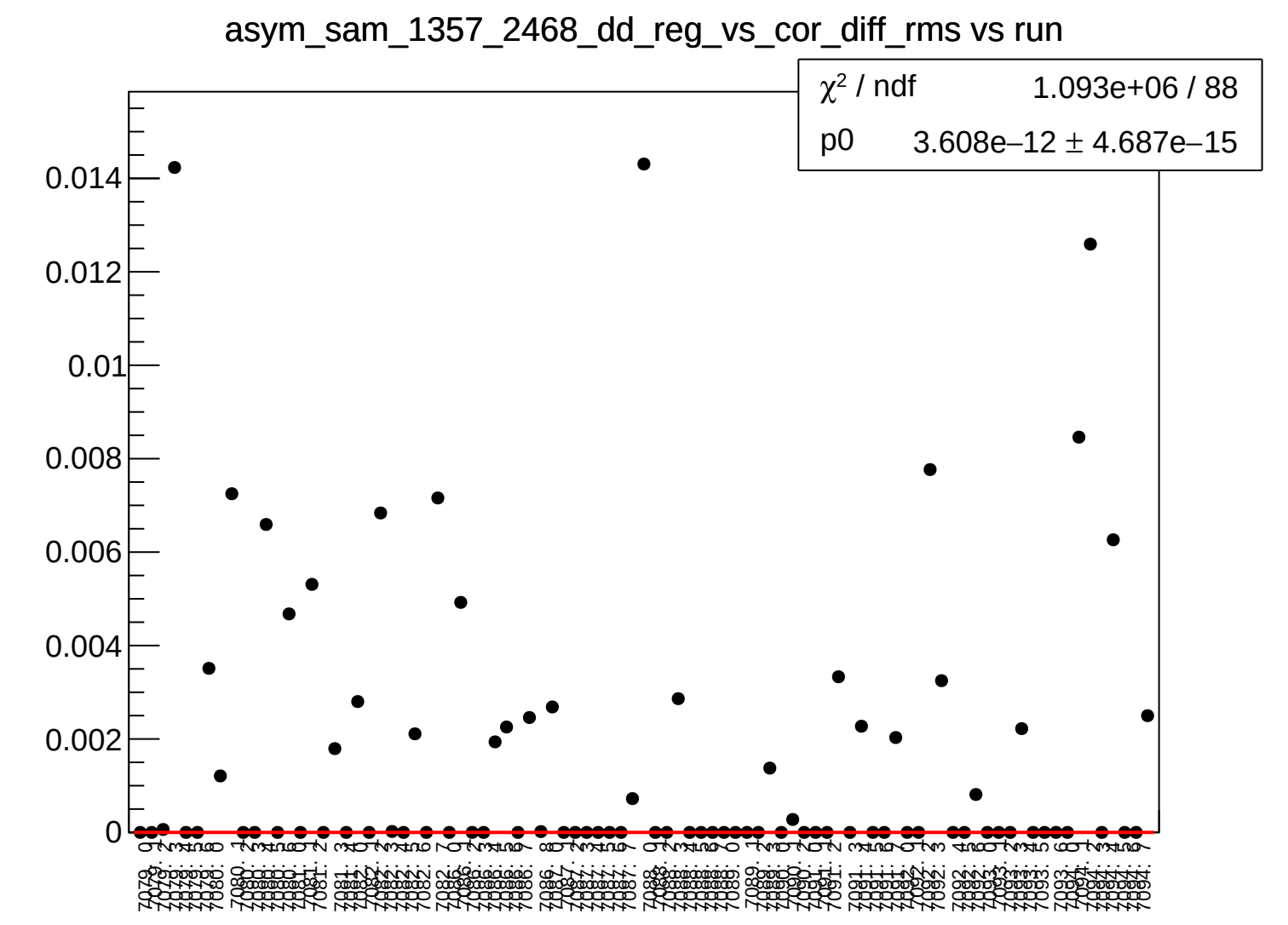

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.38 / 88
p0 −362.2 ± 224.5
pull
Entries 89
Mean 1123
Std Dev 0

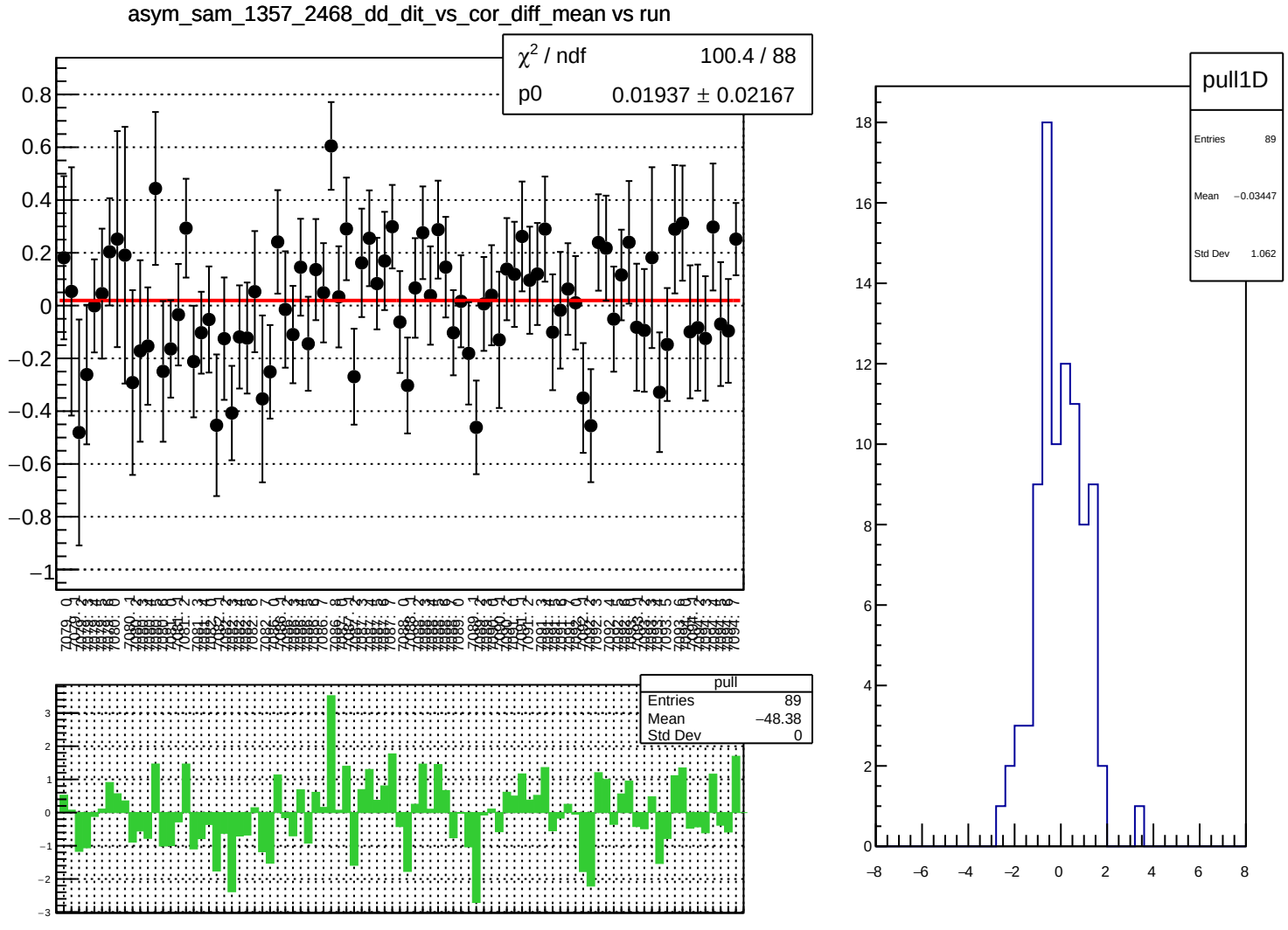

pull1D
Entries 89
Mean 0.002653
Std Dev 1.002

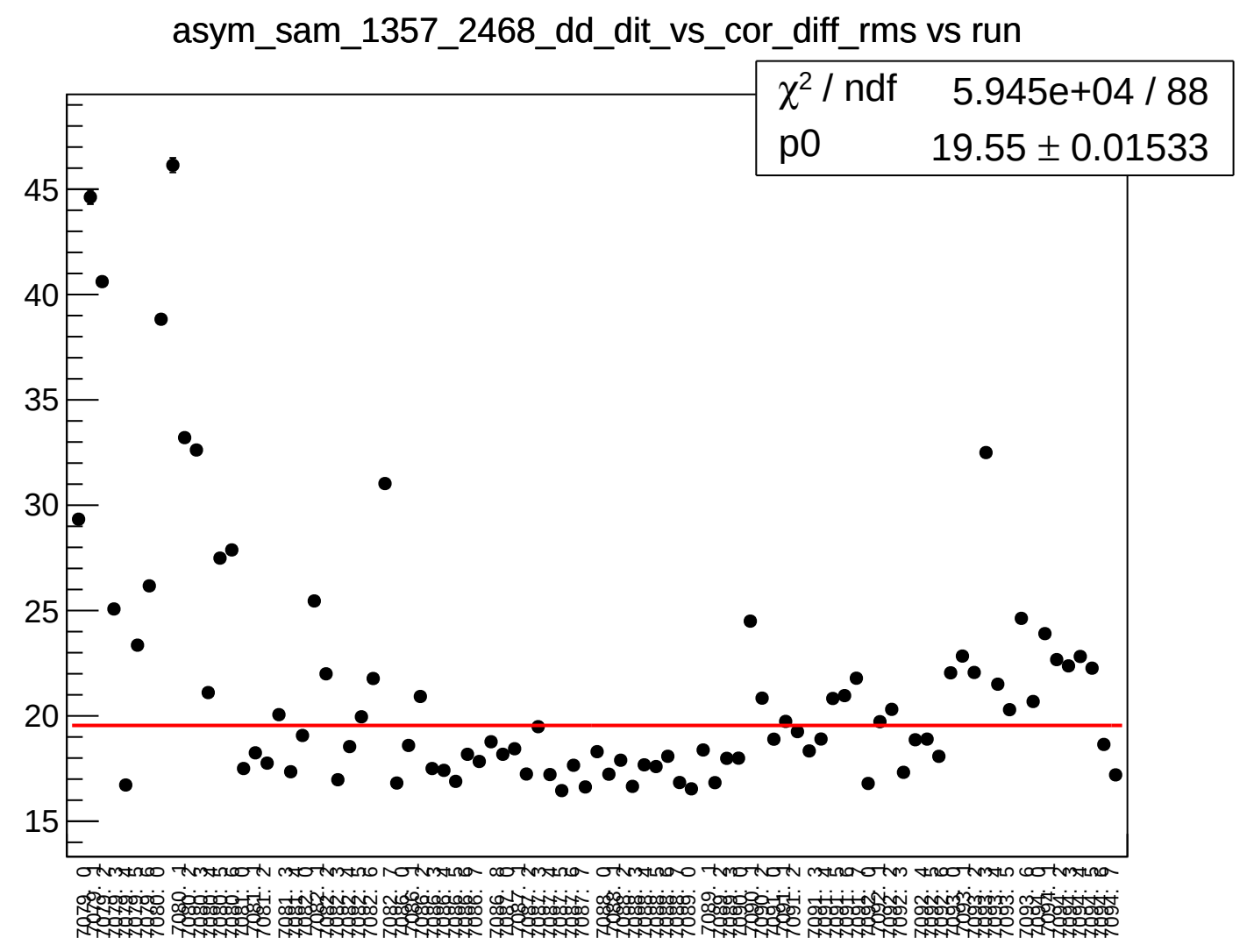

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4683 / 88
p0 205.8 ± 0.1587
230
220
210
200
190
180
170

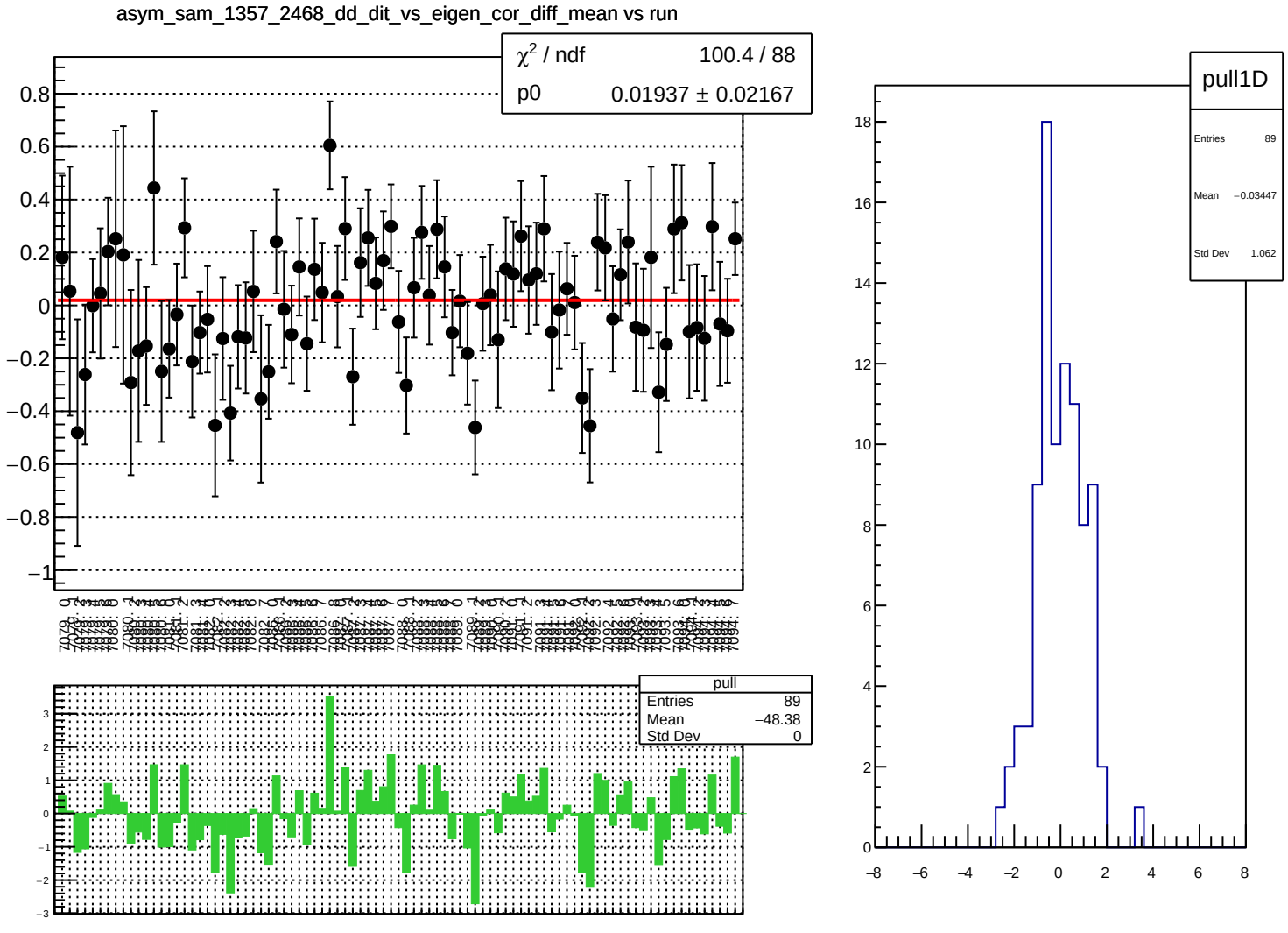

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 82.2 / 88
p0 1.003e−14 ± 6.628e−15
pull
Entries 89
Mean 30.15
Std Dev 22.41

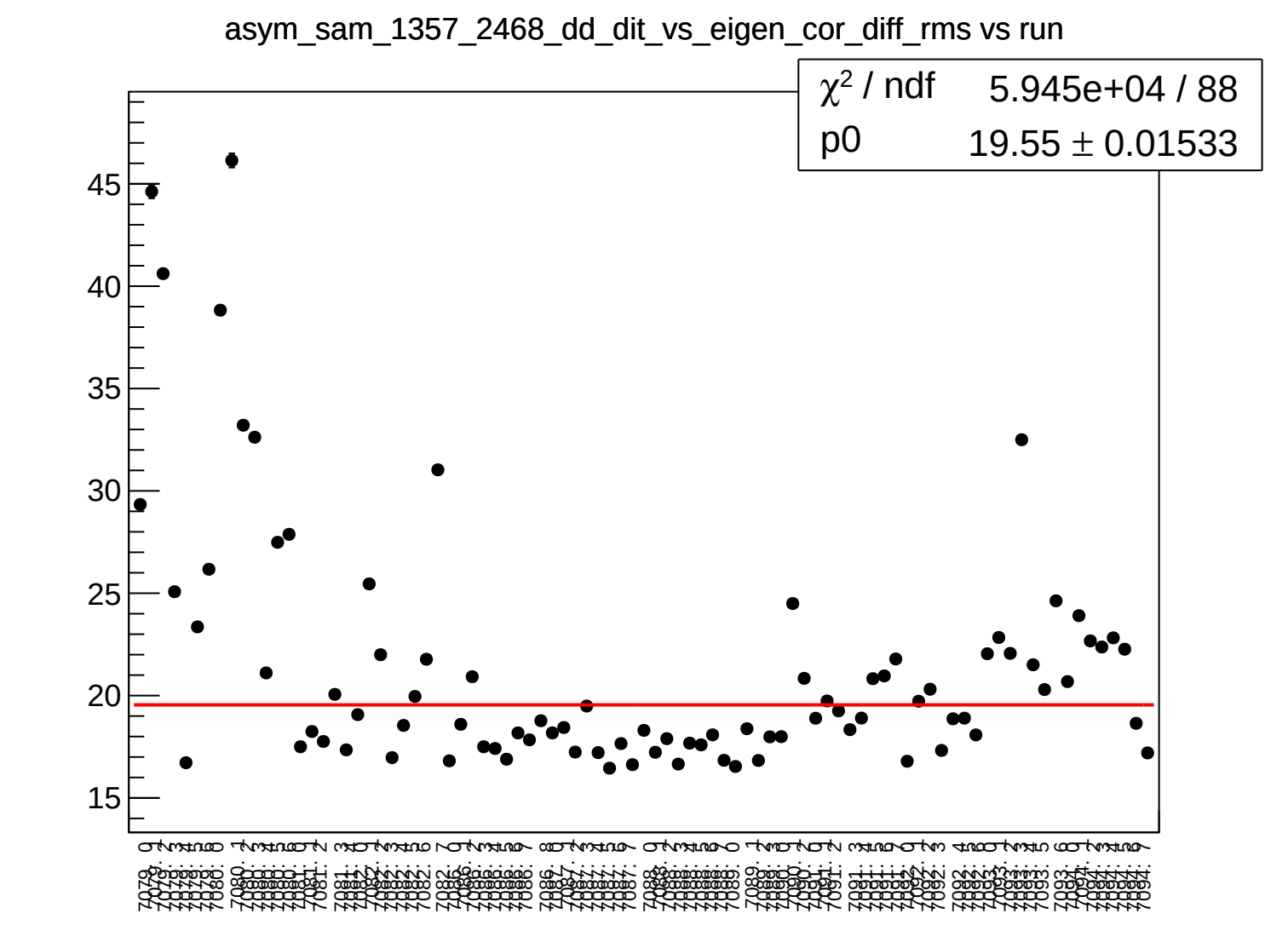

pull1D
Entries 89
Mean 0.2308
Std Dev 0.9329

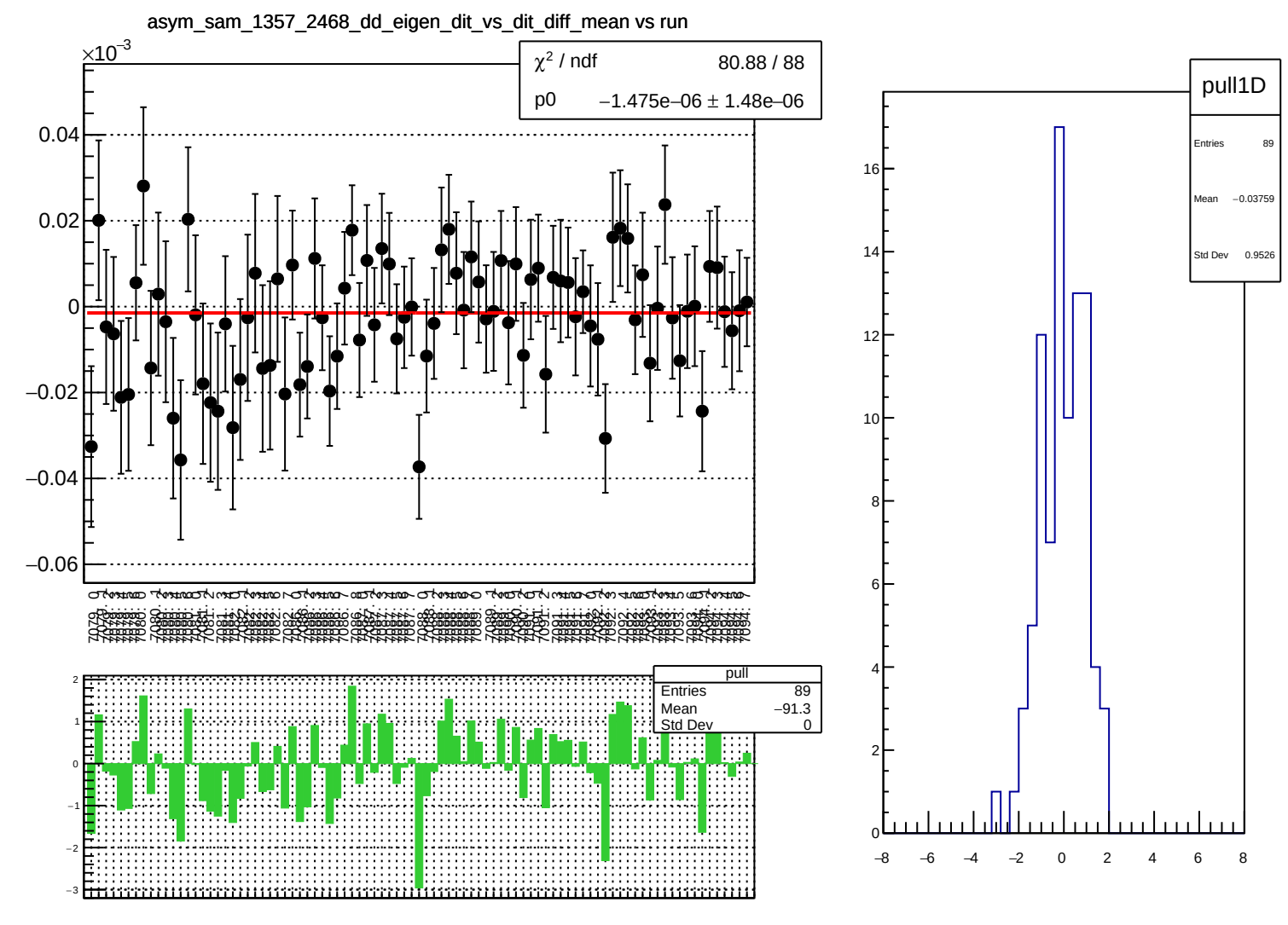

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 88
p0 3.608e−12 ± 4.687e−15
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

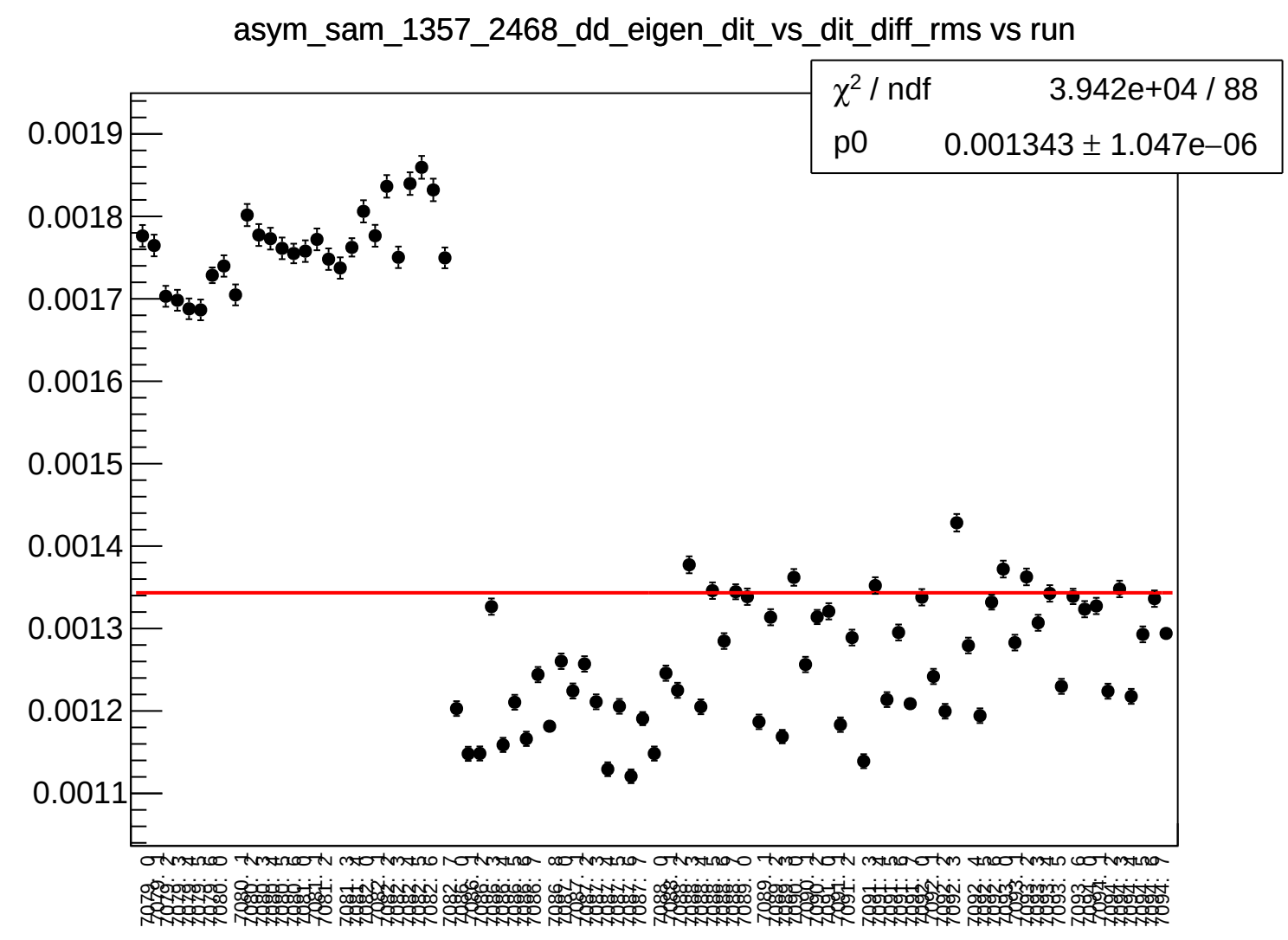

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 88
p0 0.01937 ± 0.02167
pull
Entries 89
Mean −48.38
Std Dev 0
pull1D
Entries 89
Mean −0.03447
Std Dev 1.062

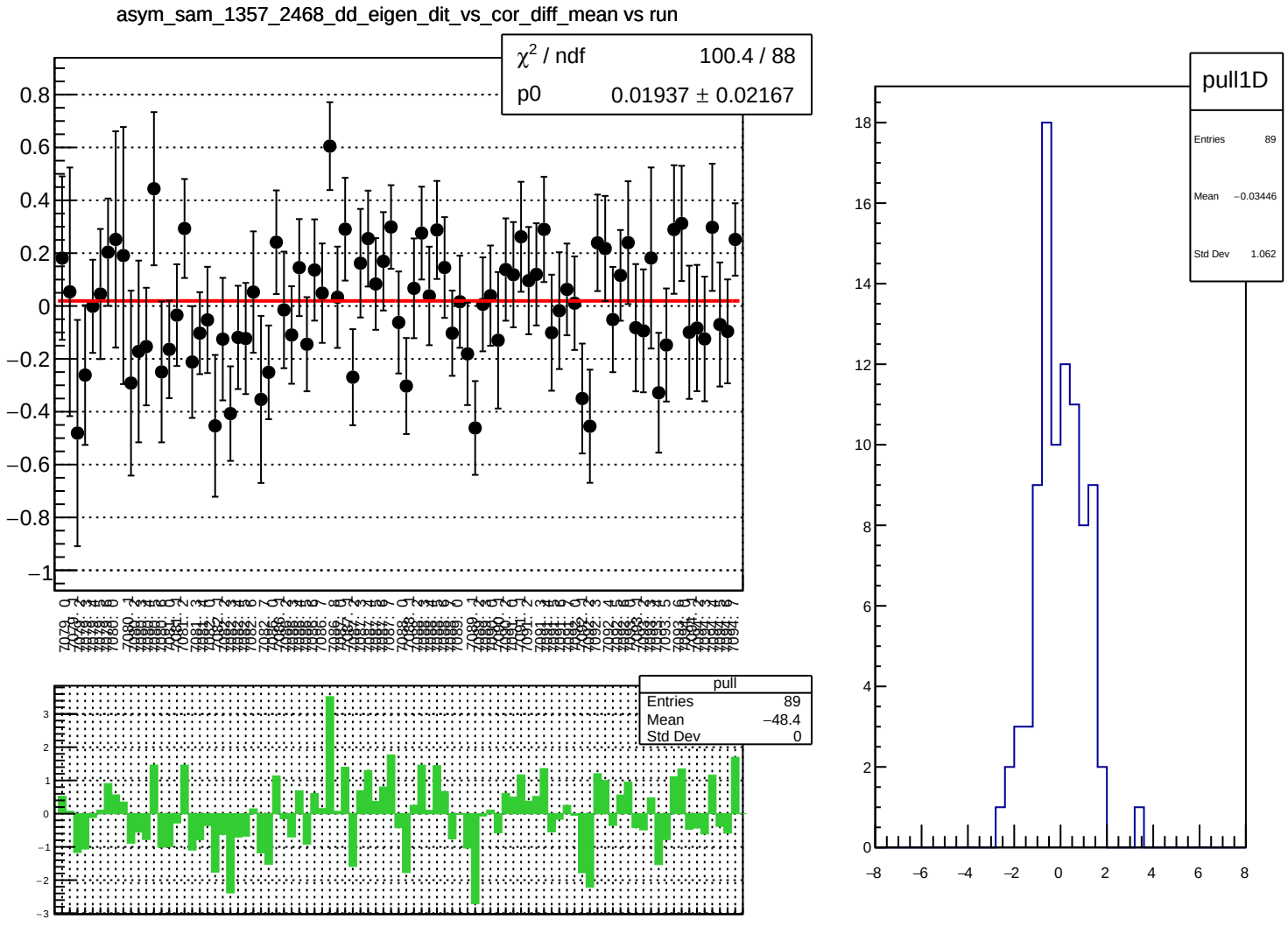

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.945e+04 / 88
p0 19.55 ± 0.01533
45
40
35
30
25
20
15

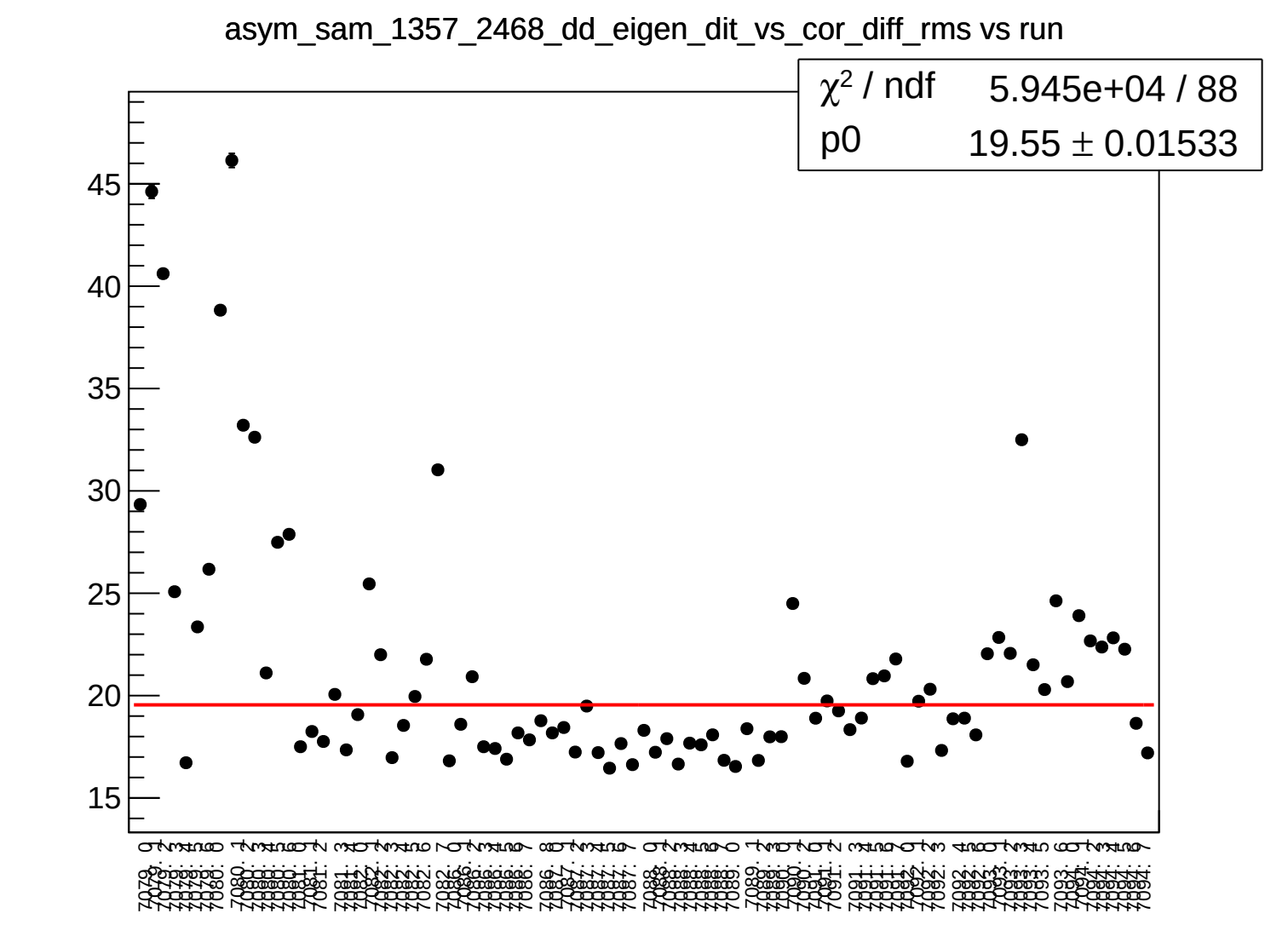

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 88
p0 0.01937 ± 0.02167
pull
Entries 89
Mean −48.38
Std Dev 0
pull1D
Entries 89
Mean −0.03447
Std Dev 1.062

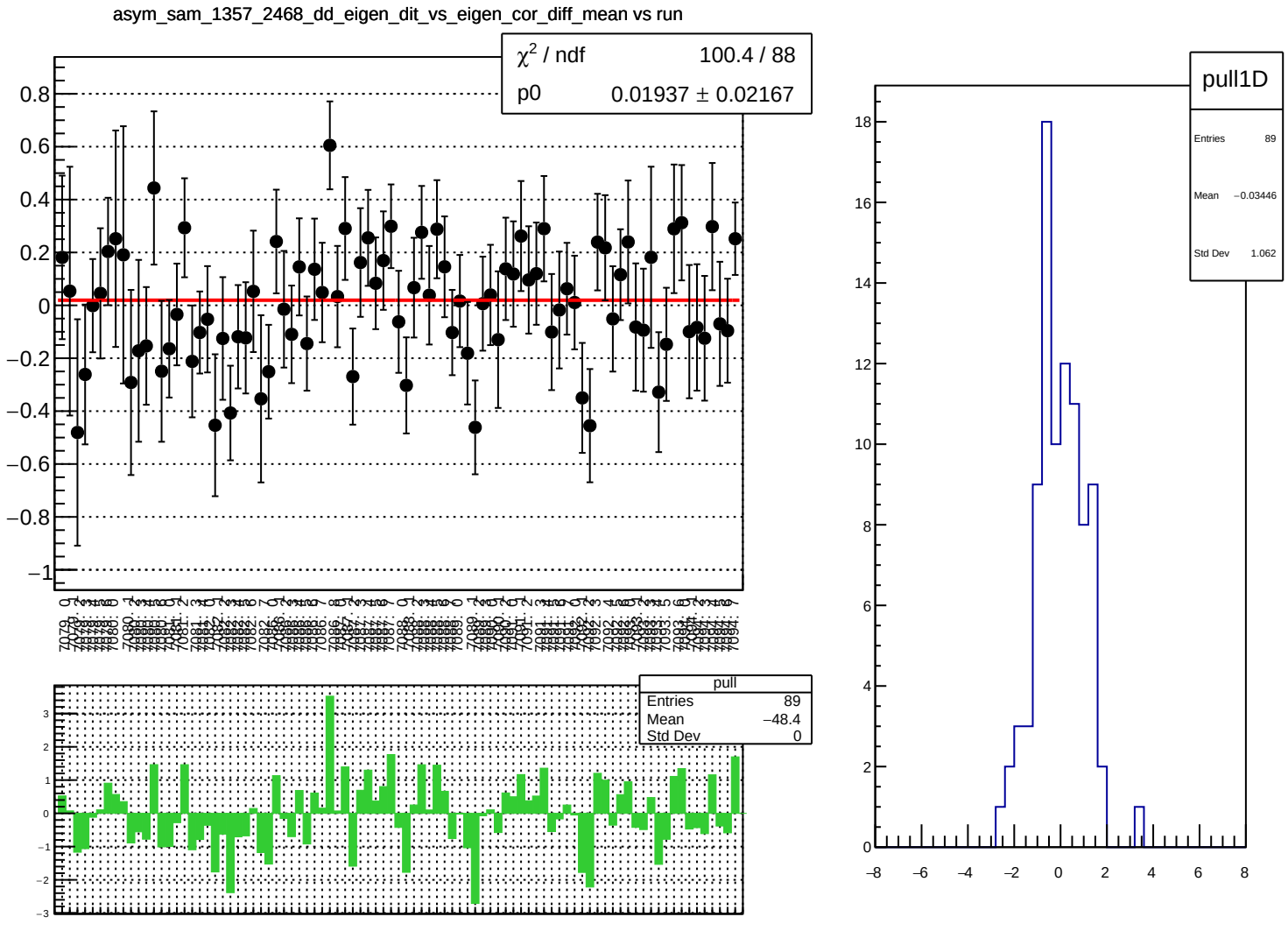

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.945e+04 / 88
p0 19.55 ± 0.01533
45
40
35
30
25
20
15

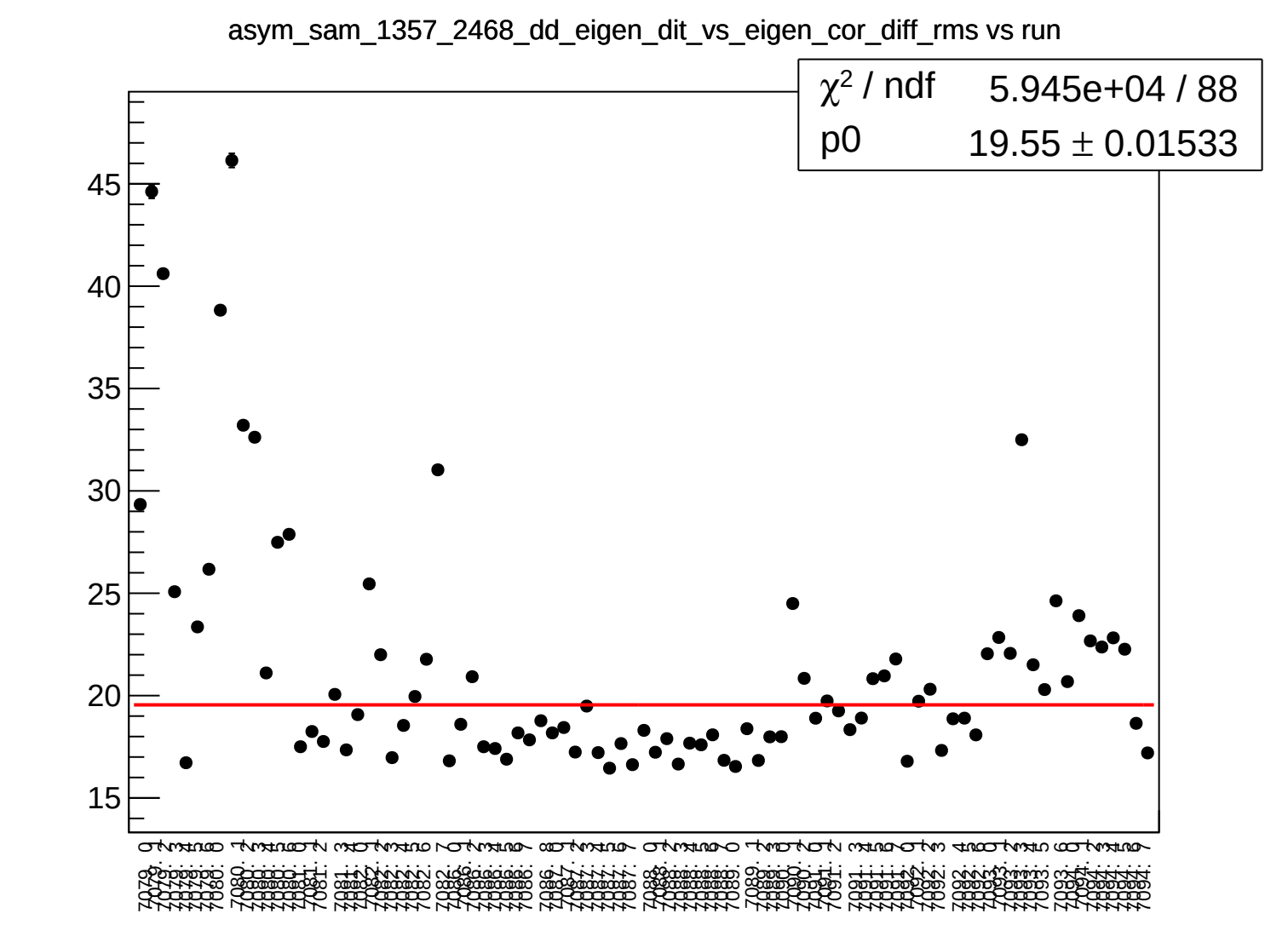

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.88 / 88
p0 −1.475e−06 ± 1.48e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −91.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.03759
Std Dev 0.9526
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

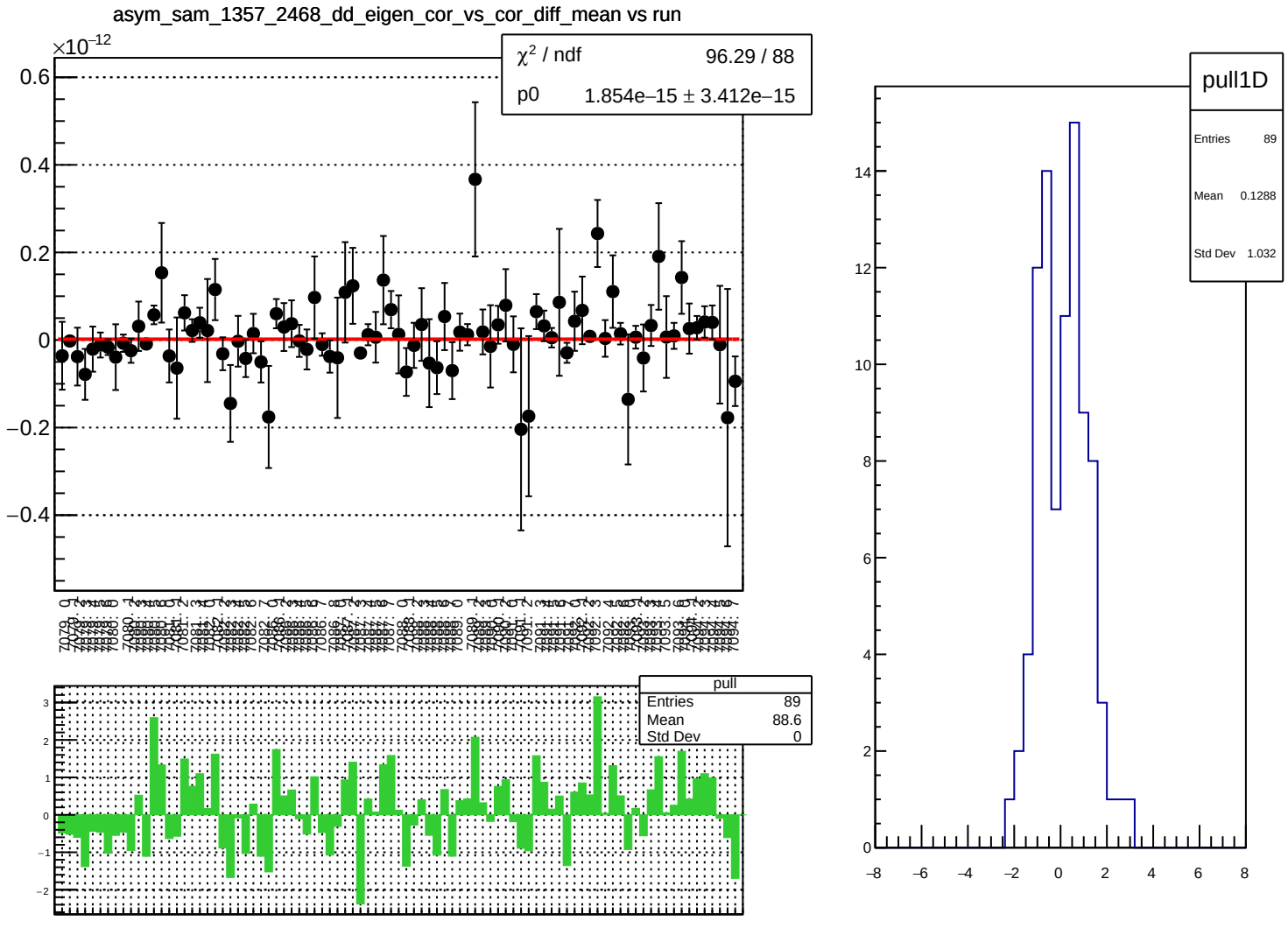

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.942e+04 / 88
p0 0.001343 ± 1.047e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

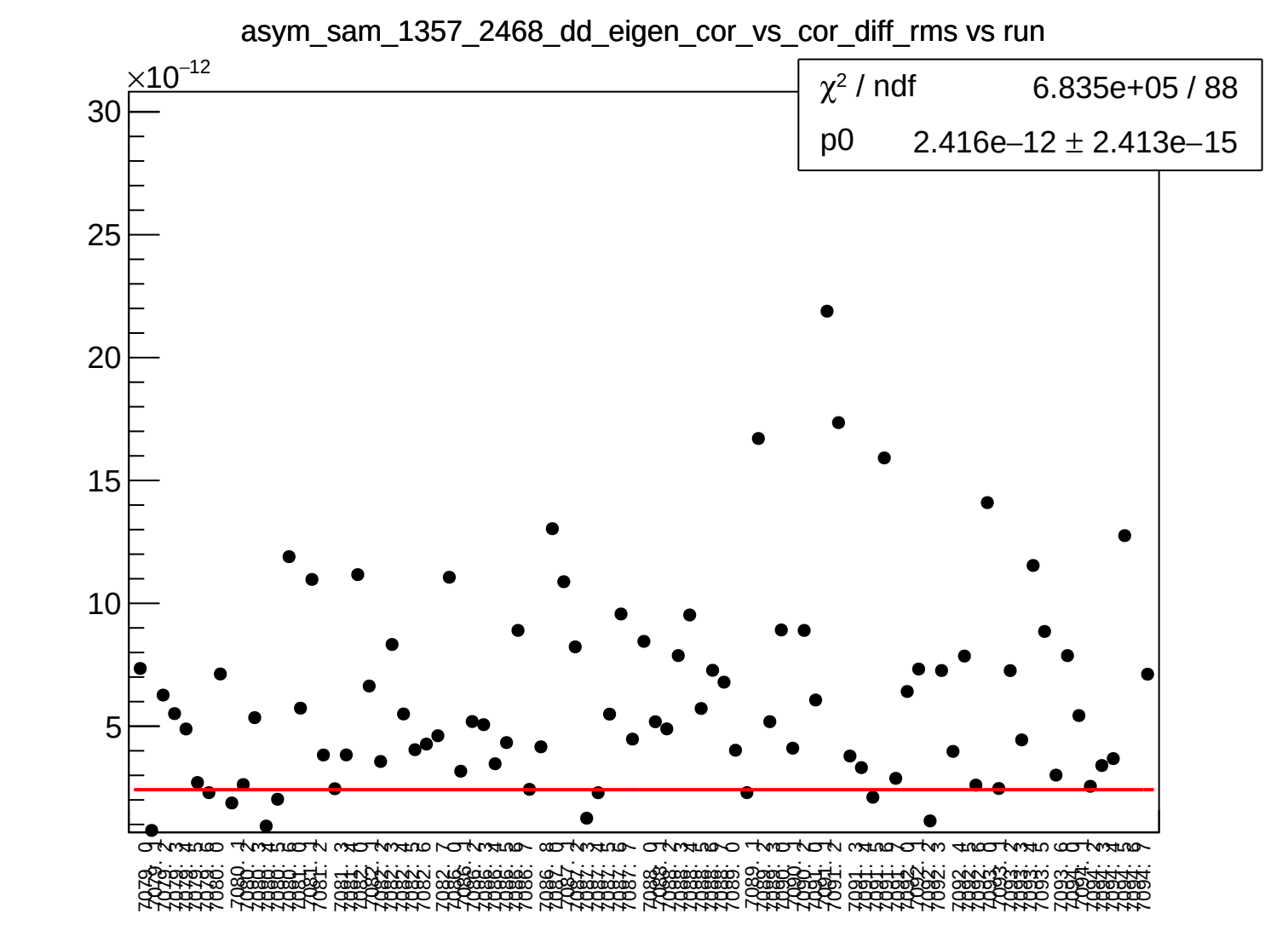

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 88
p0 0.01937 ± 0.02167
pull
Entries 89
Mean −48.4
Std Dev 0
pull1D
Entries 89
Mean −0.03446
Std Dev 1.062

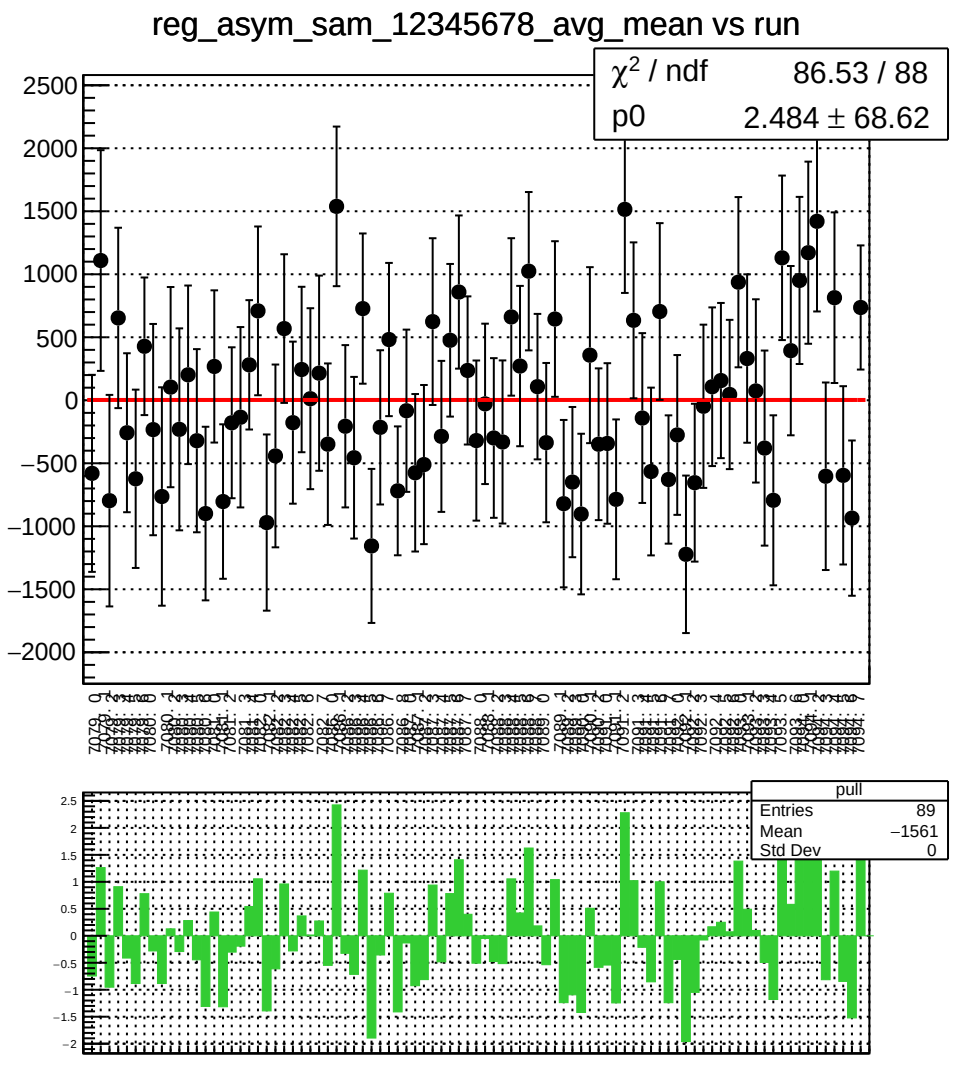

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.945e+04 / 88
p0 19.55 ± 0.01533
45
40
35
30
25
20
15

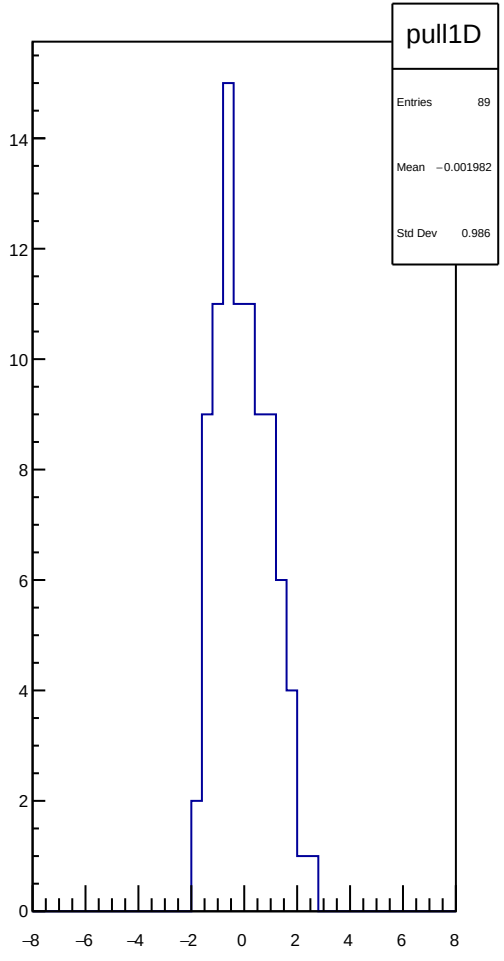

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 88
p0 0.01937 ± 0.02167
pull
Entries 89
Mean −48.4
Std Dev 0
pull1D
Entries 89
Mean −0.03446
Std Dev 1.062

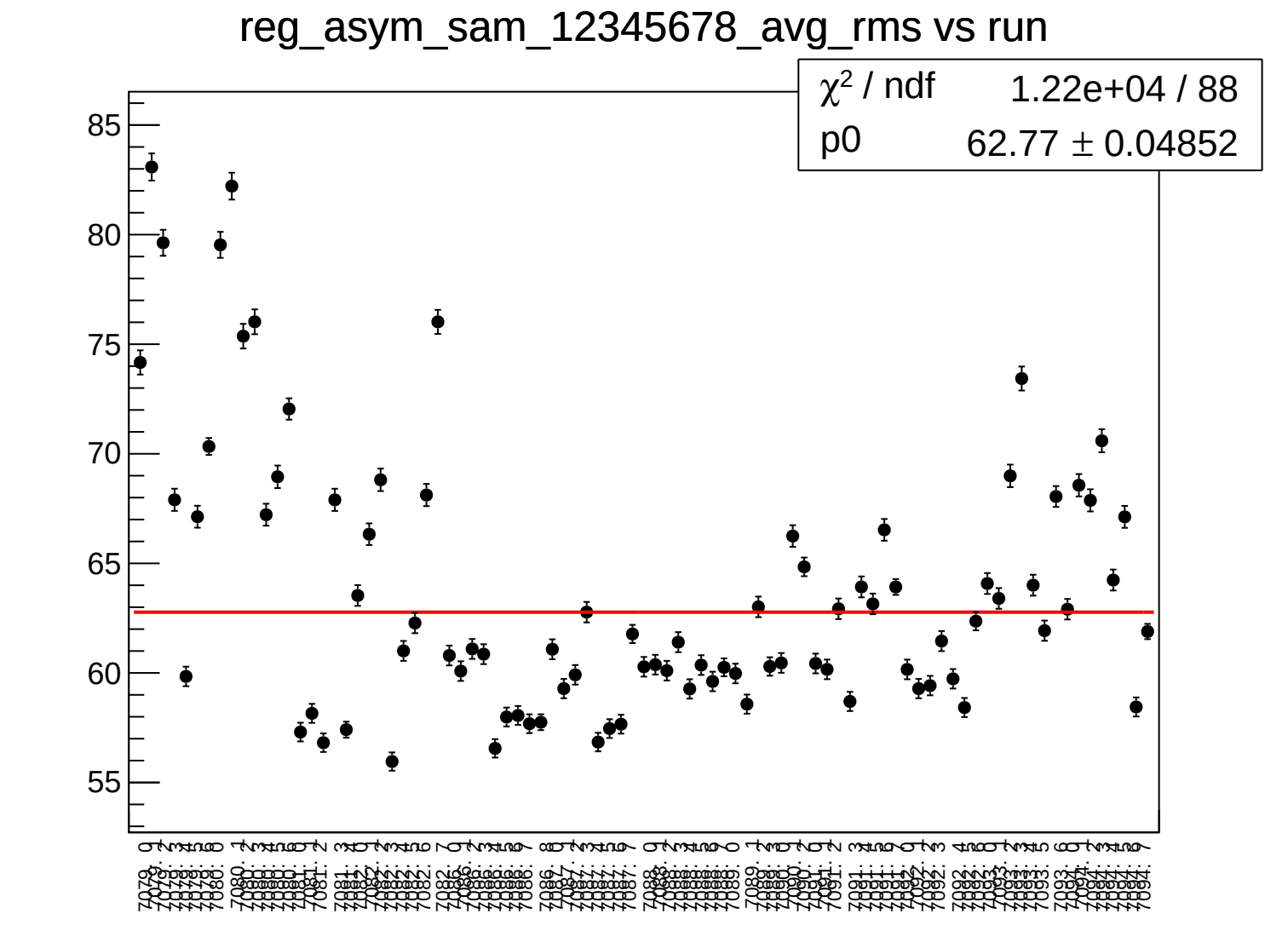

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.945e+04 / 88
p0 19.55 ± 0.01533
45
40
35
30
25
20
15

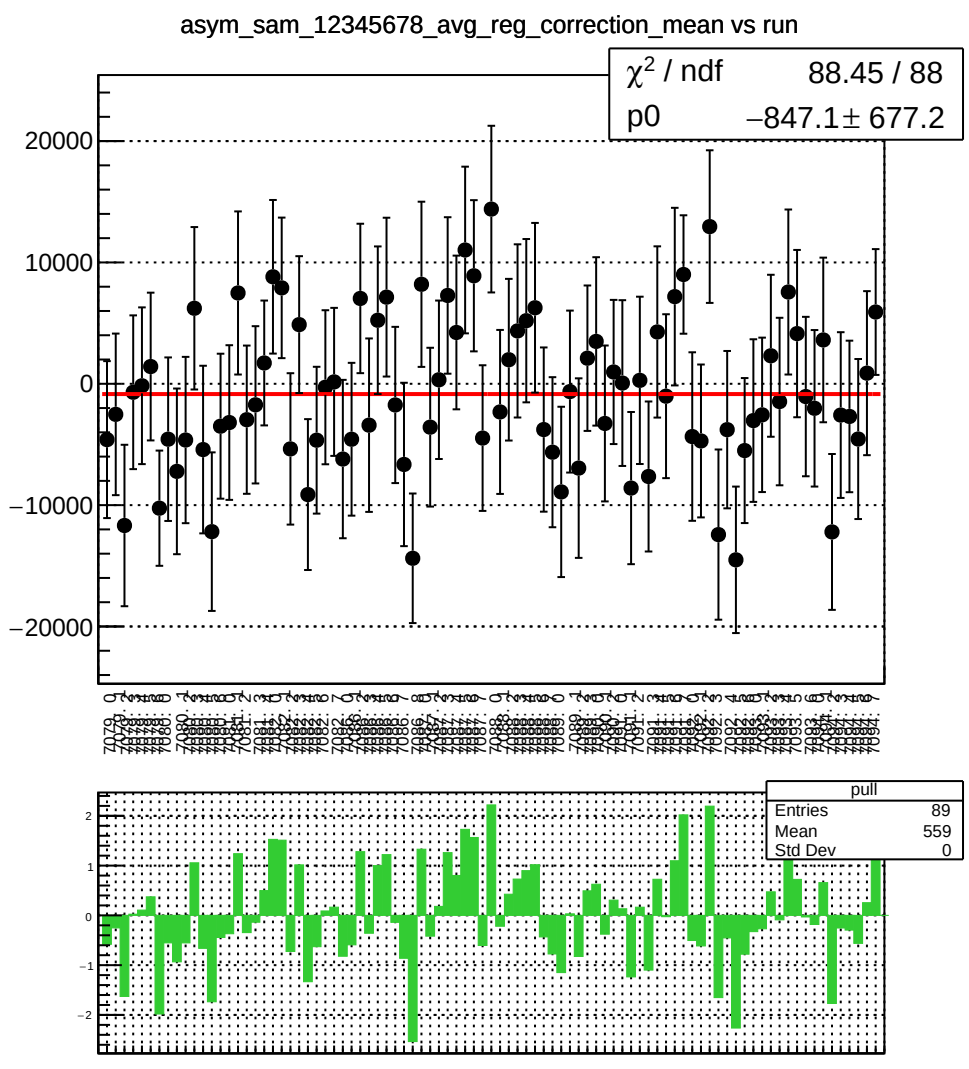

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.29 / 88
p0 1.854e−15 ± 3.412e−15
pull
Entries 89
Mean 88.6
Std Dev 0
pull1D
Entries 89
Mean 0.1288
Std Dev 1.032

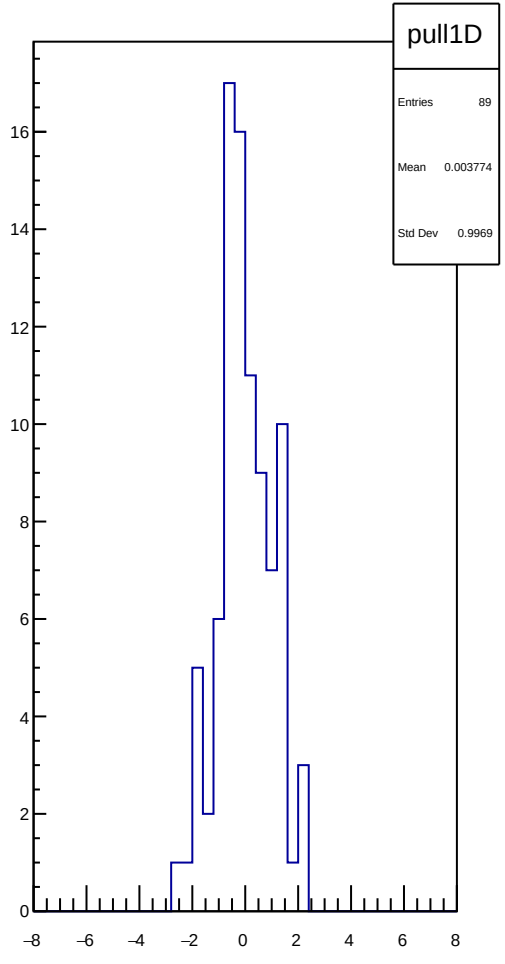

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.835e+05 / 88
p0 2.416e−12 ± 2.413e−15
30
25
20
15
10
5

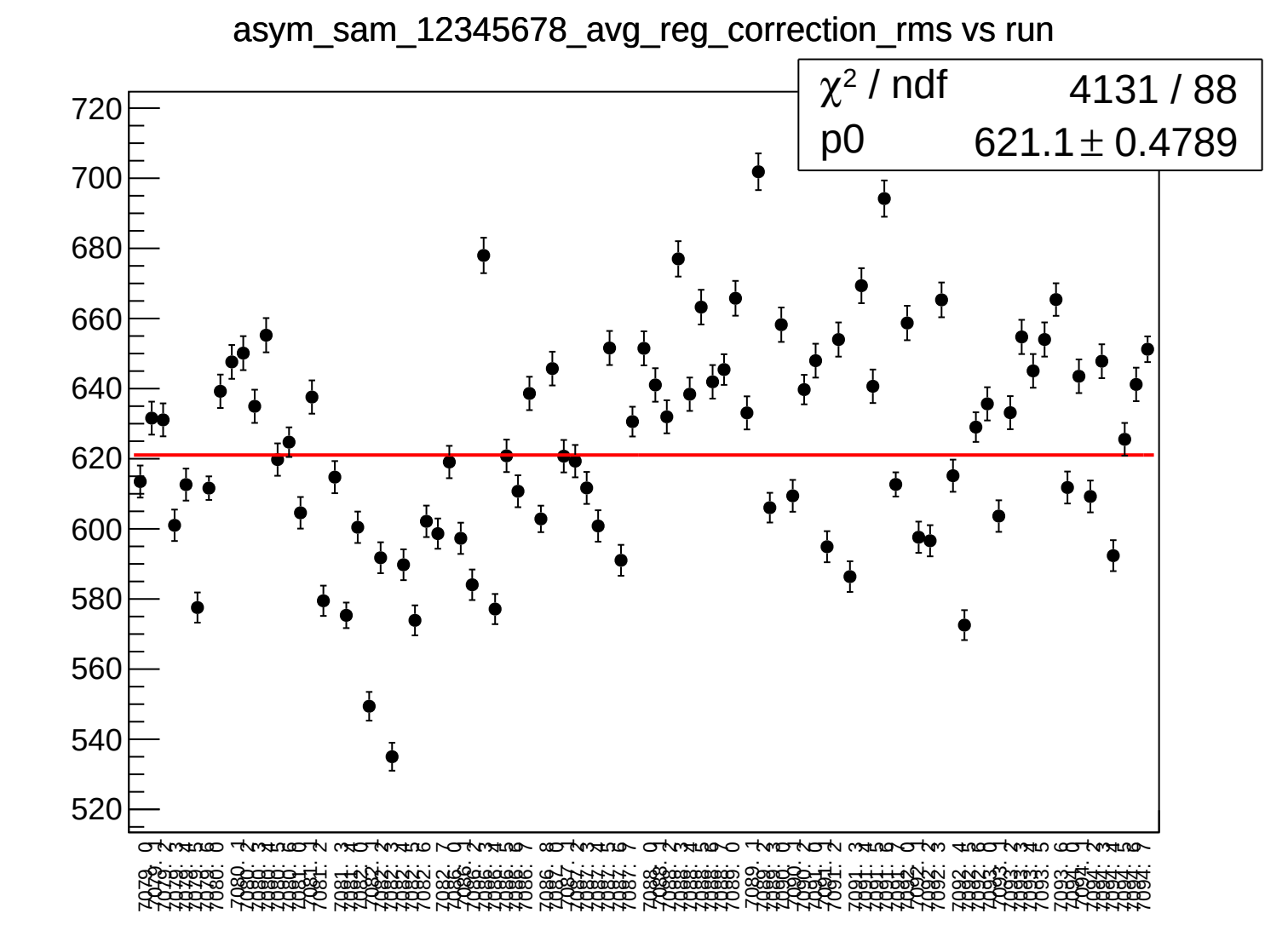

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 86.53 / 88
p0 2.484 ± 68.62
pull
Entries 89
Mean −1561
Std Dev 0

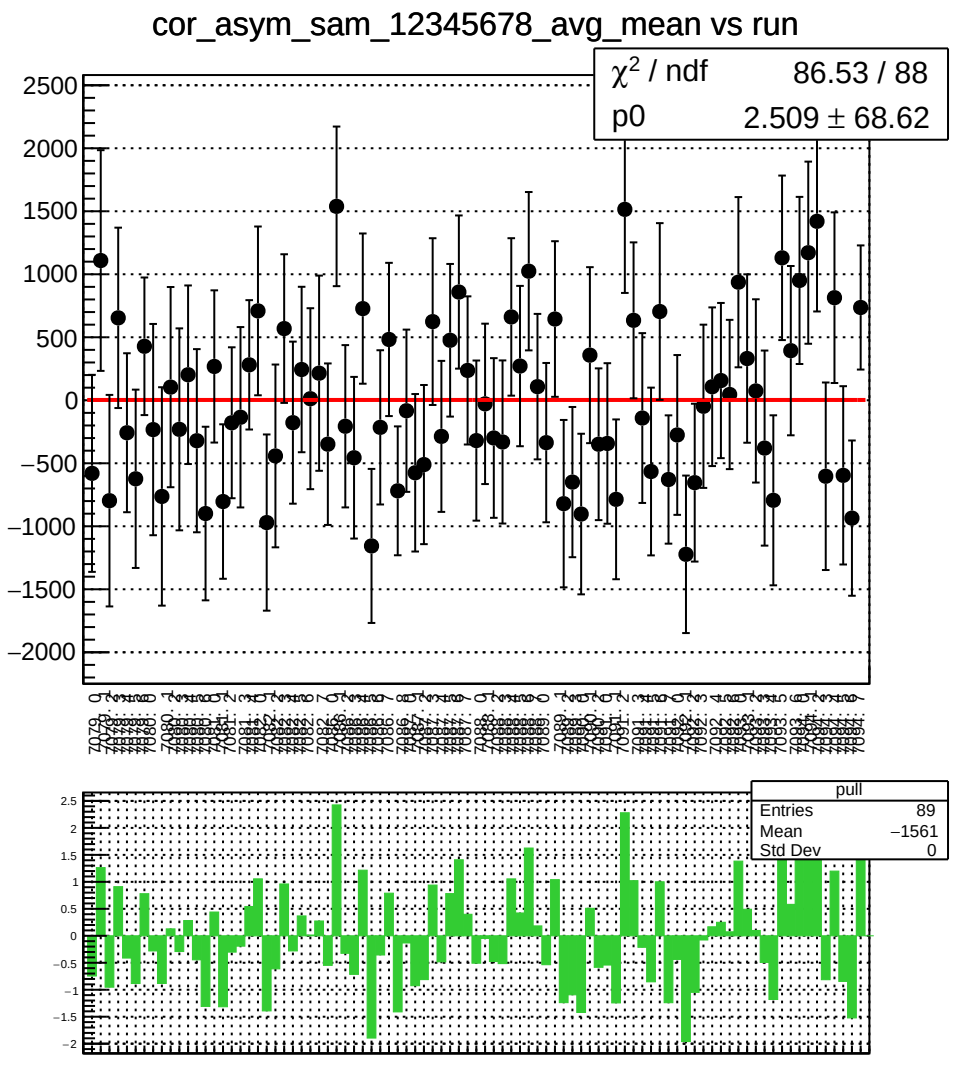

pull1D
Entries 89
Mean −0.001982
Std Dev 0.986

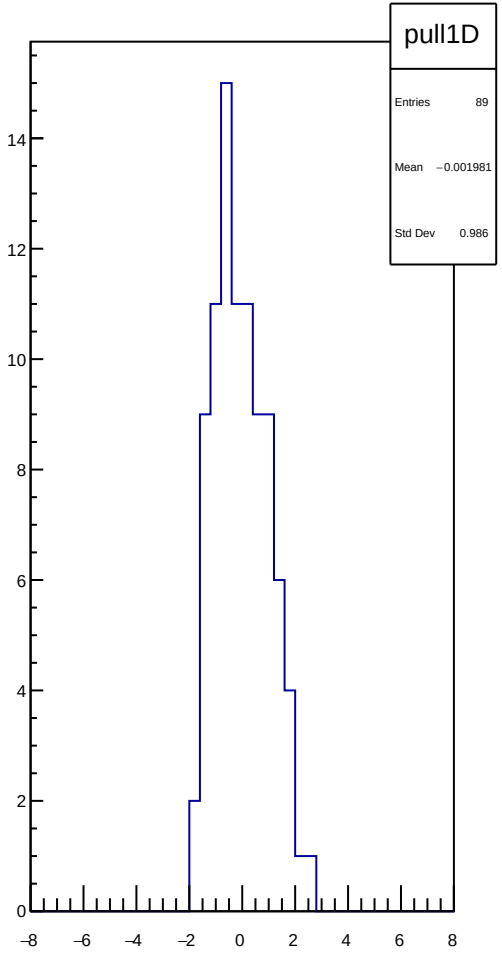

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.22e+04 / 88
p0 62.77 ± 0.04852
85
80
75
70
65
60
55

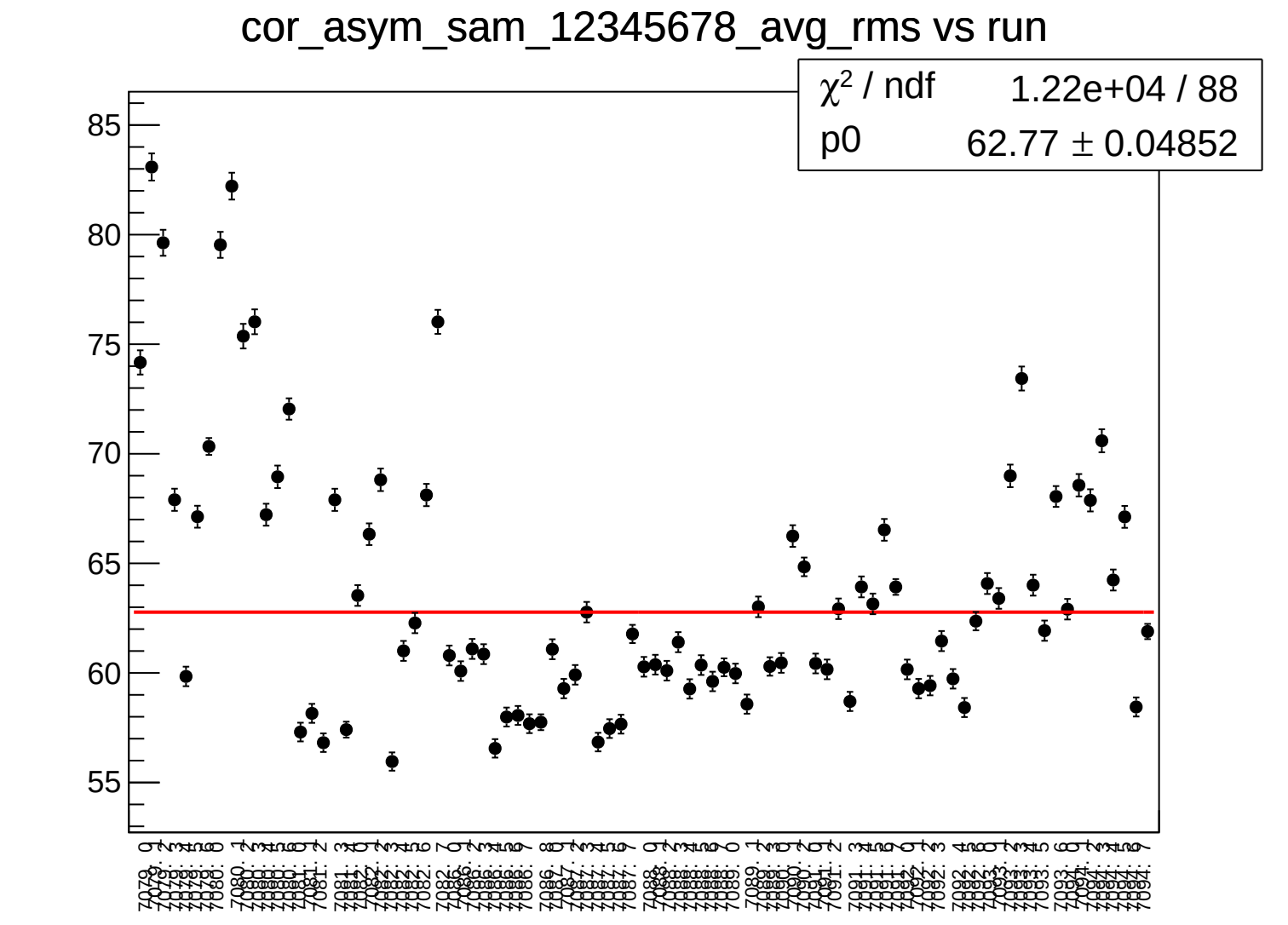

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 88.45 / 88
p0 −847.1± 677.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 559
Std Dev 0
2
1
0
−1
−2

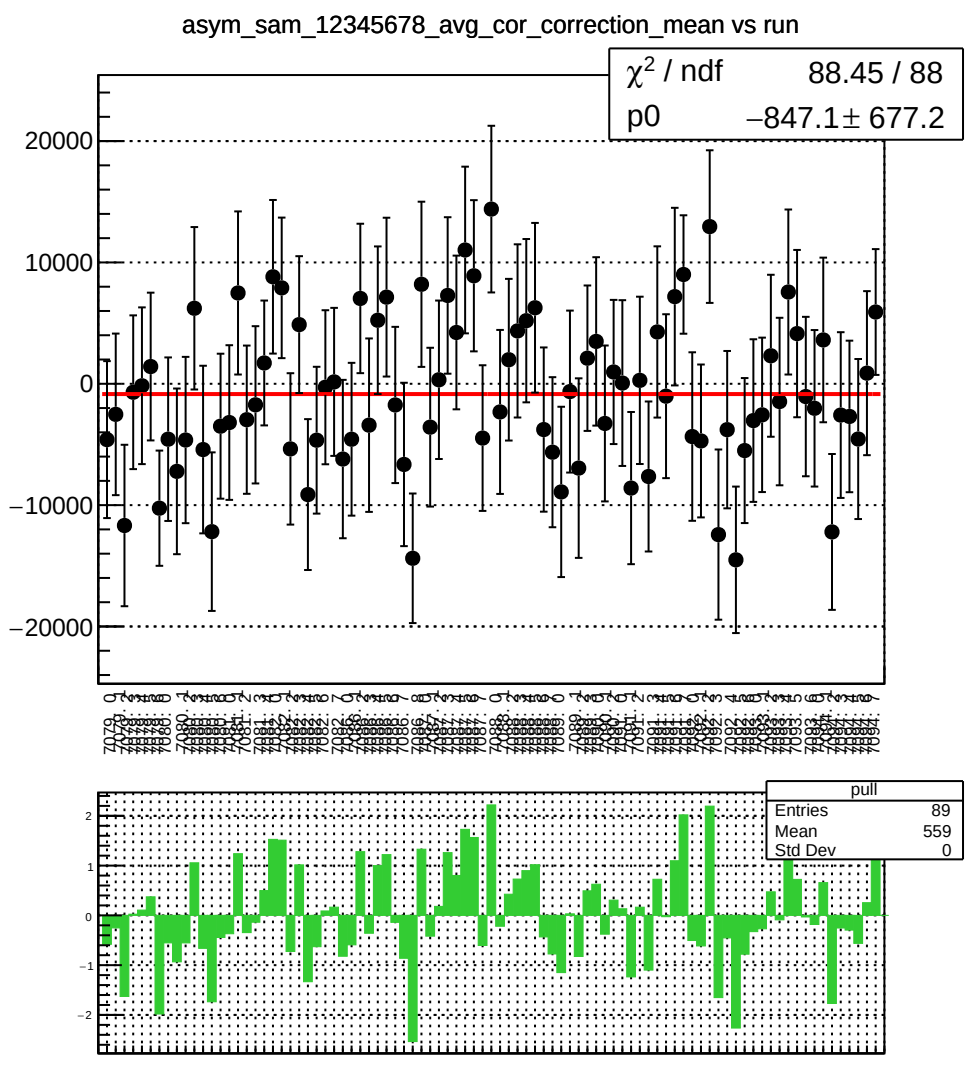

pull1D
Entries 89
Mean 0.003774
Std Dev 0.9969
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

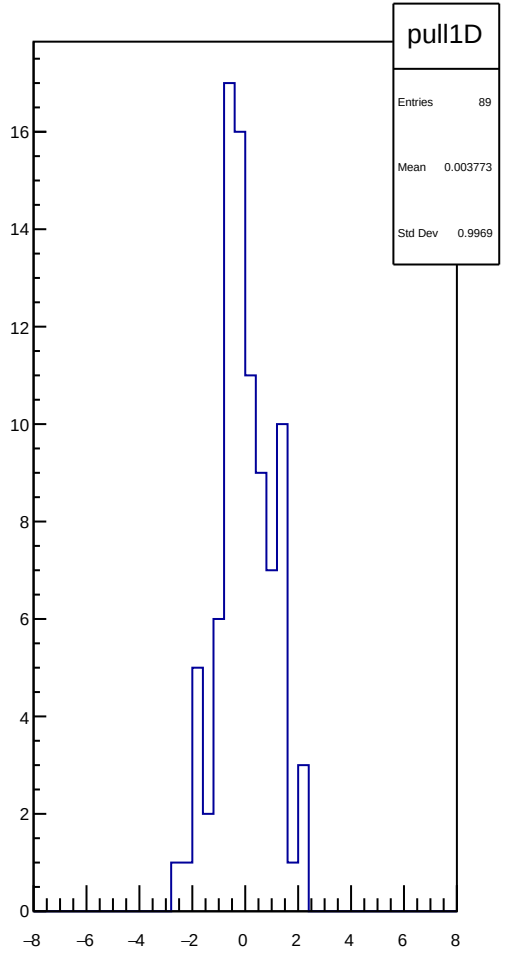

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 4131 / 88
p0 621.1 ± 0.4789
720
700
680
660
640
620
600
580
560
540
520

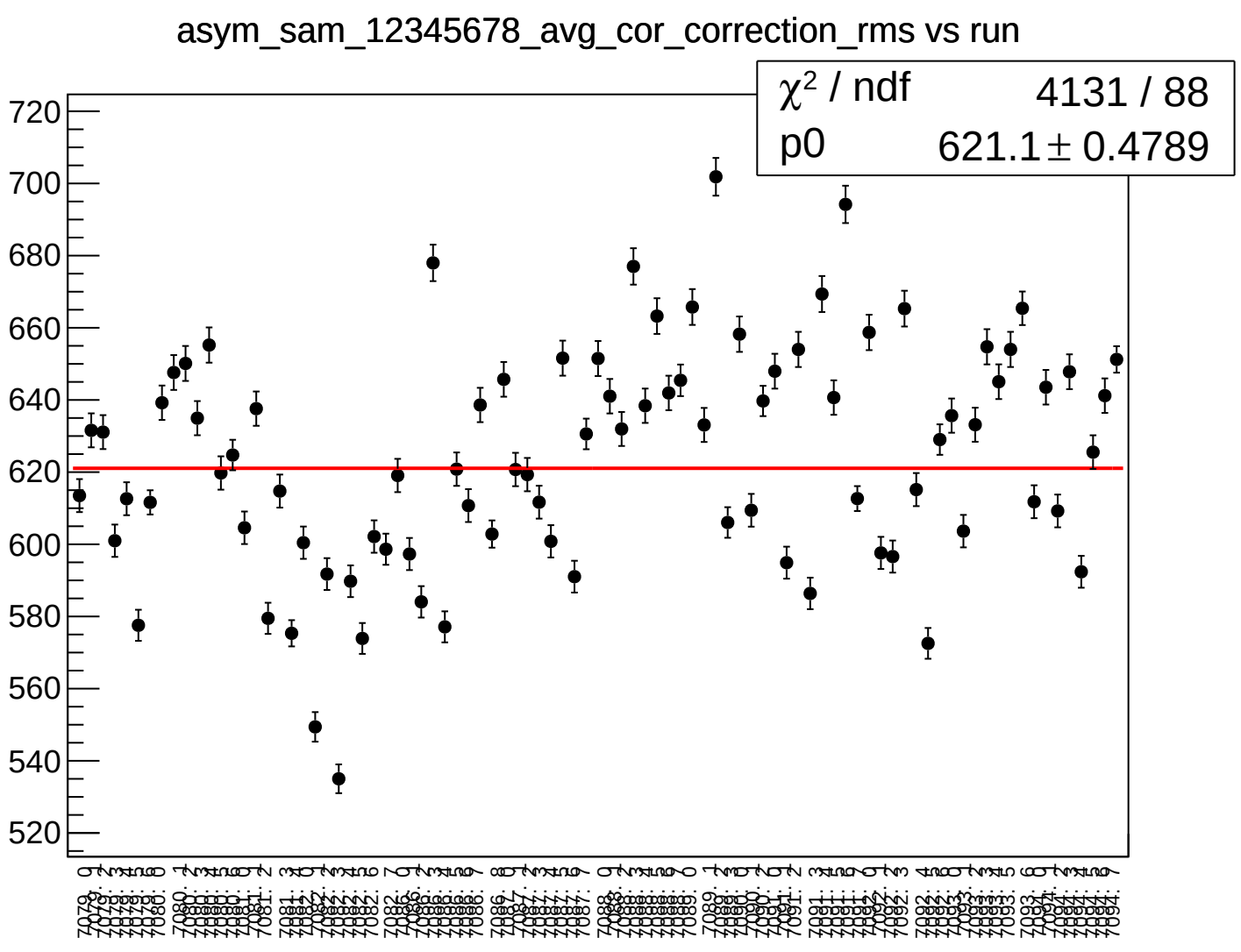

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 86.53 / 88
p0 2.509 ± 68.62
pull
Entries 89
Mean −1561
Std Dev 0

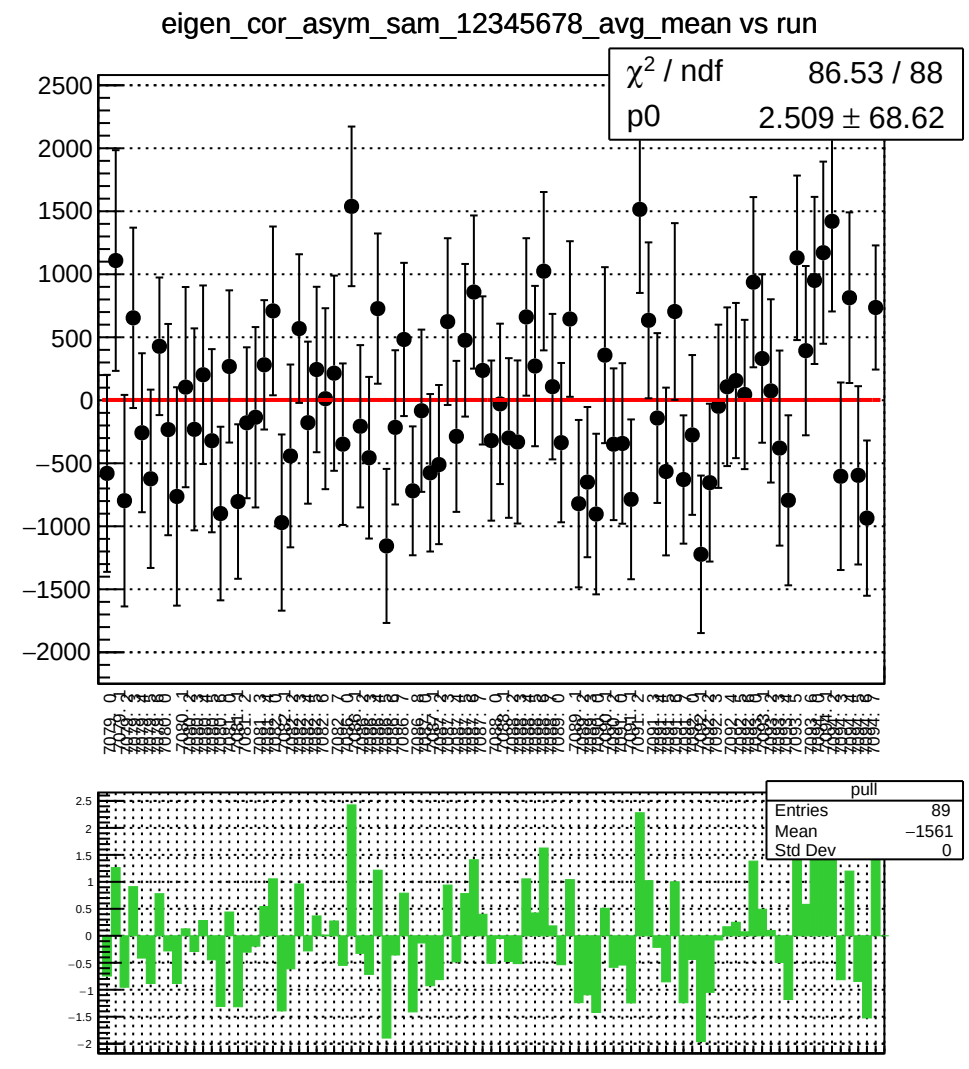

pull1D
Entries 89
Mean −0.001981
Std Dev 0.986

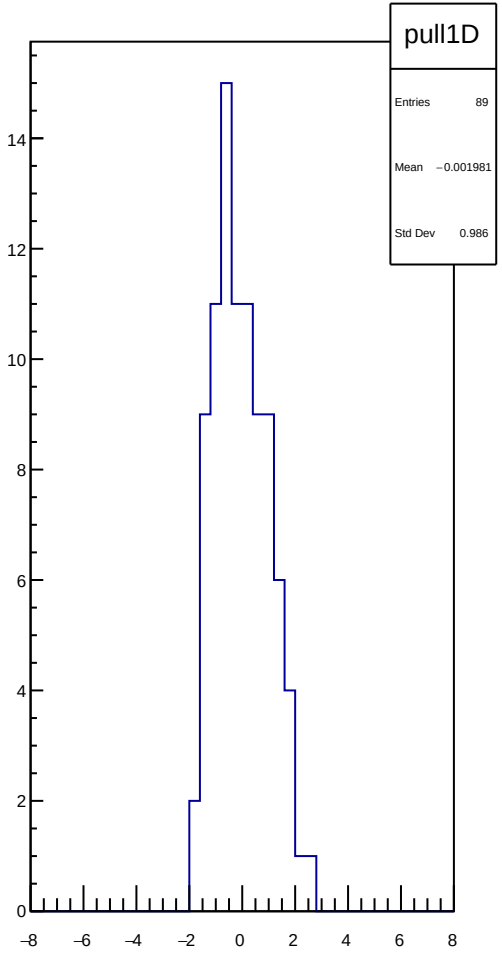

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.22e+04 / 88
p0 62.77 ± 0.04852
85
80
75
70
65
60
55

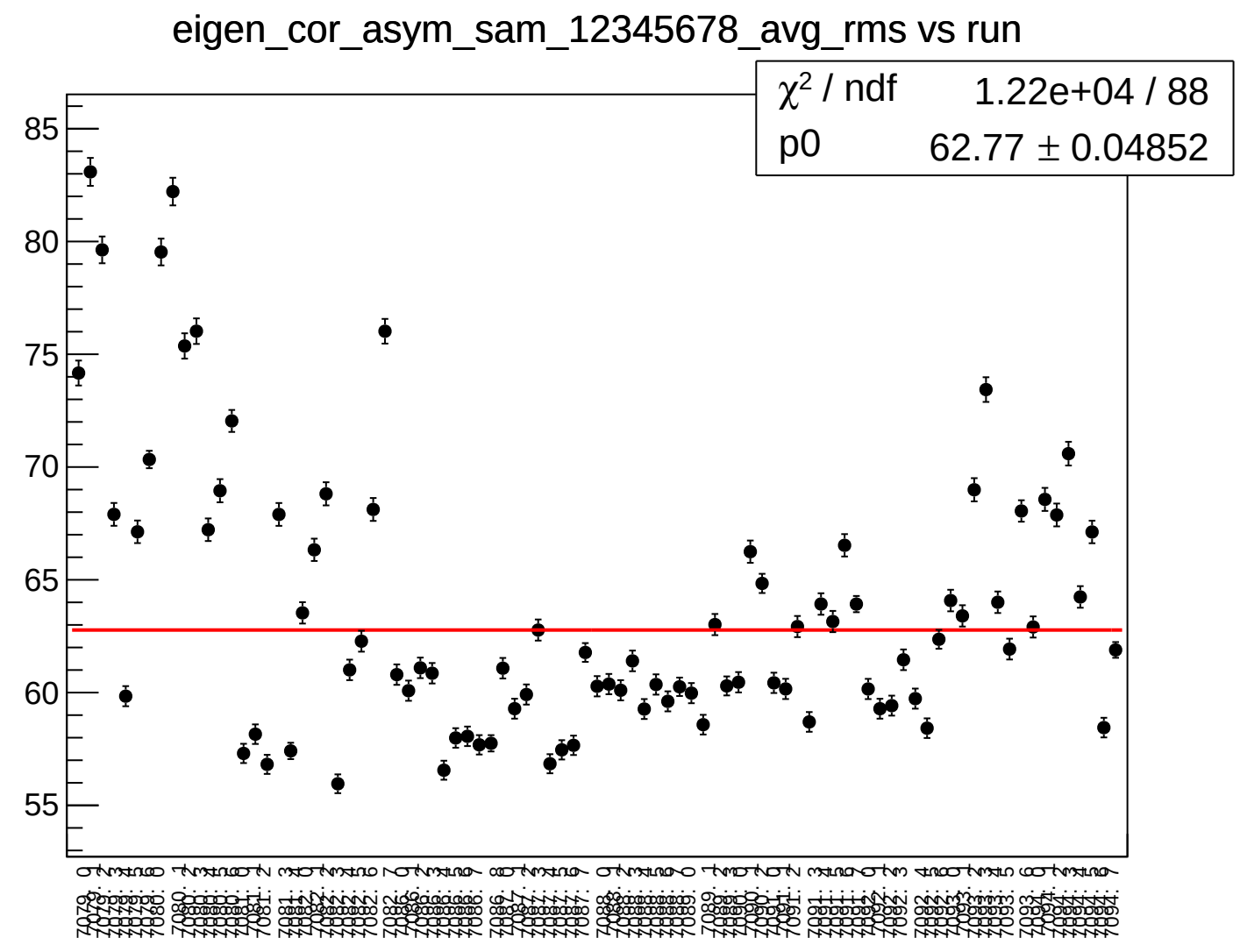

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 88.45 / 88
p0 −847.1± 677.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 559
Std Dev 0
2
1
0
−1
−2

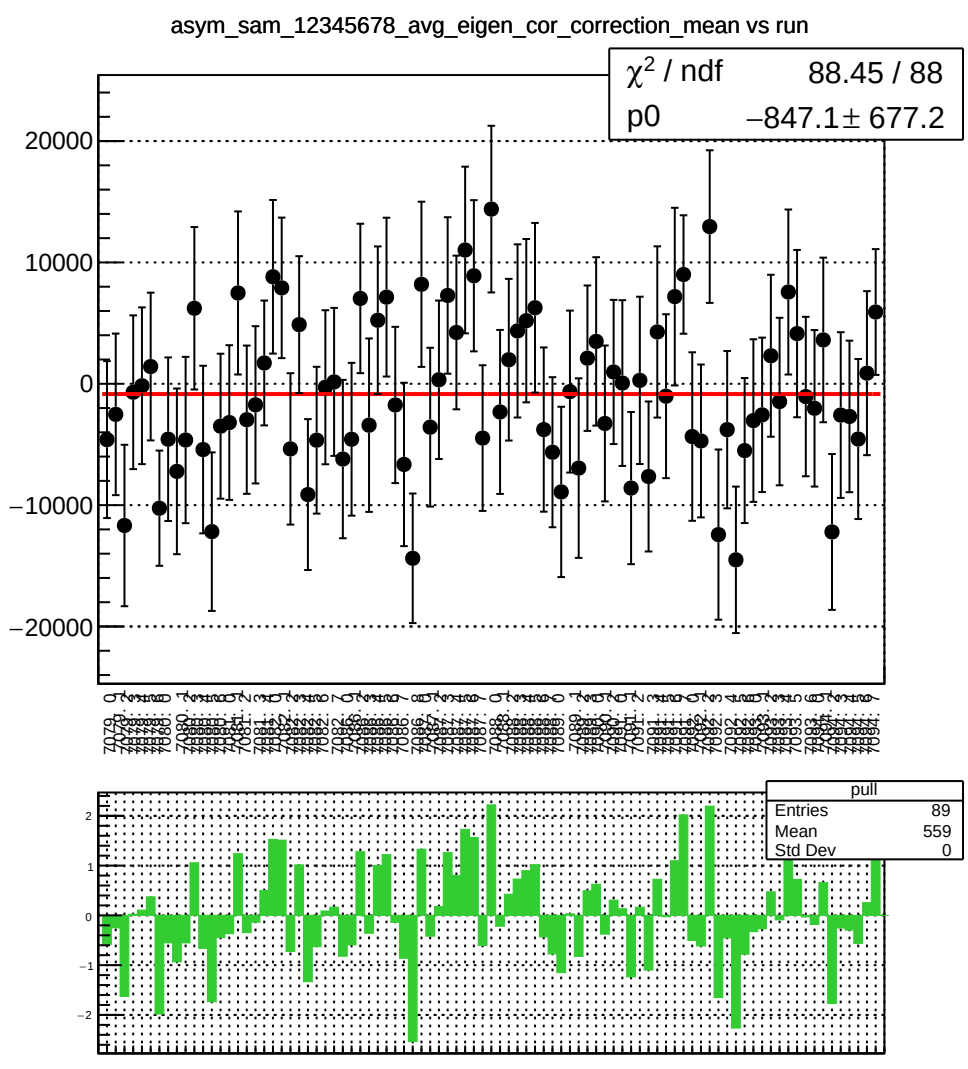

pull1D
Entries 89
Mean 0.003773
Std Dev 0.9969
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

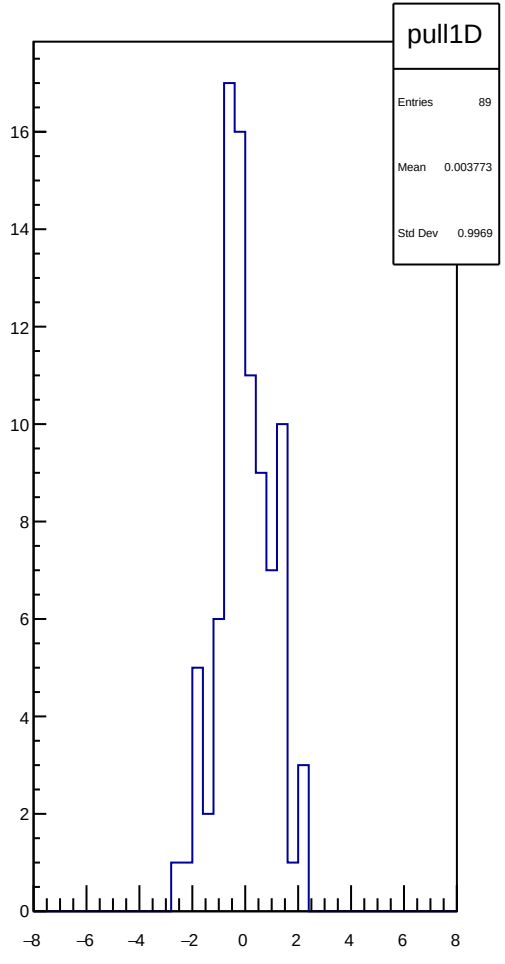

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 4131 / 88
p0 621.1 ± 0.4789
720
700
680
660
640
620
600
580
560
540
520

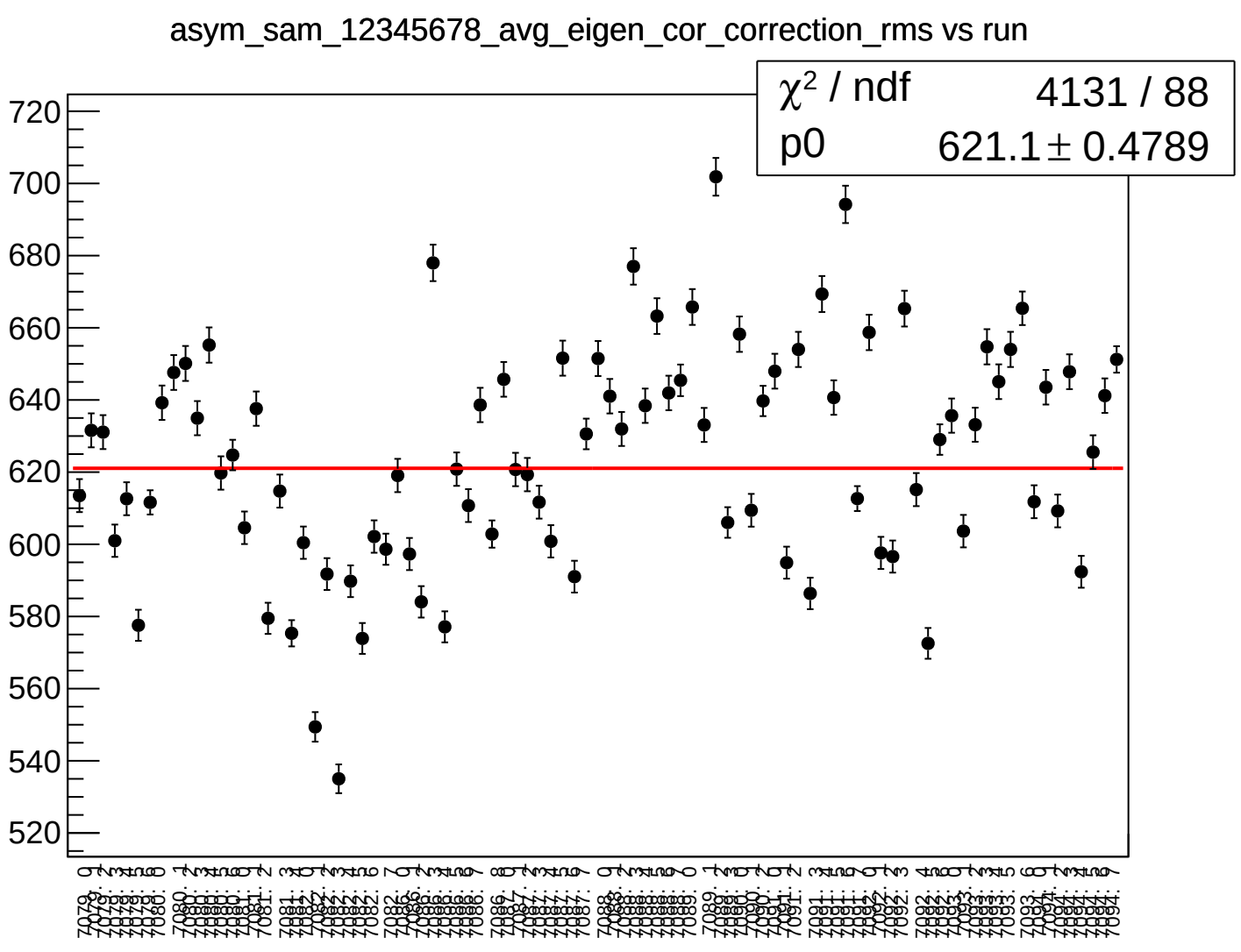

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 86.53 / 88
p0 2.509 ± 68.62
pull
Entries 89
Mean −1561
Std Dev 0

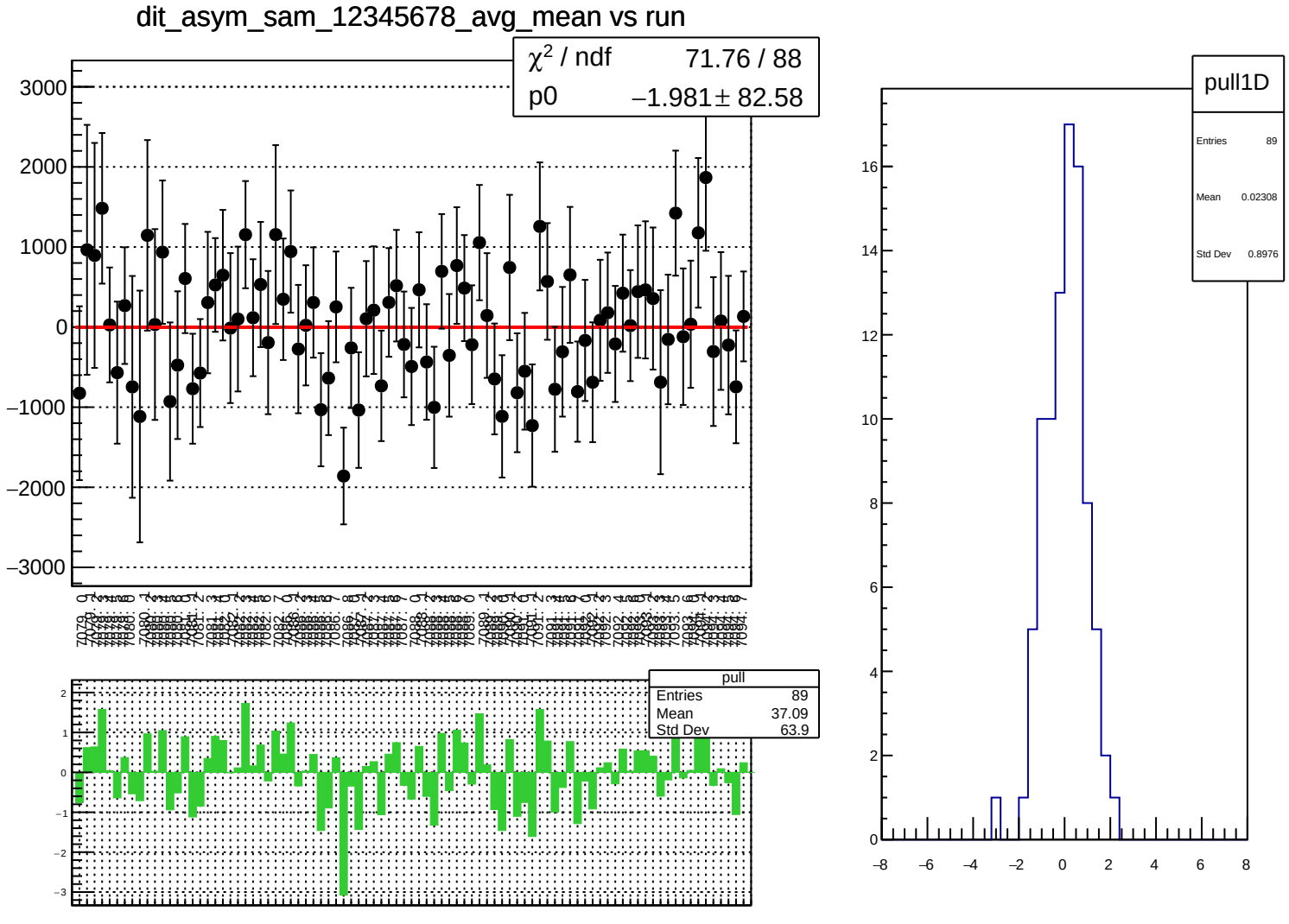

pull1D
Entries 89
Mean −0.001981
Std Dev 0.986

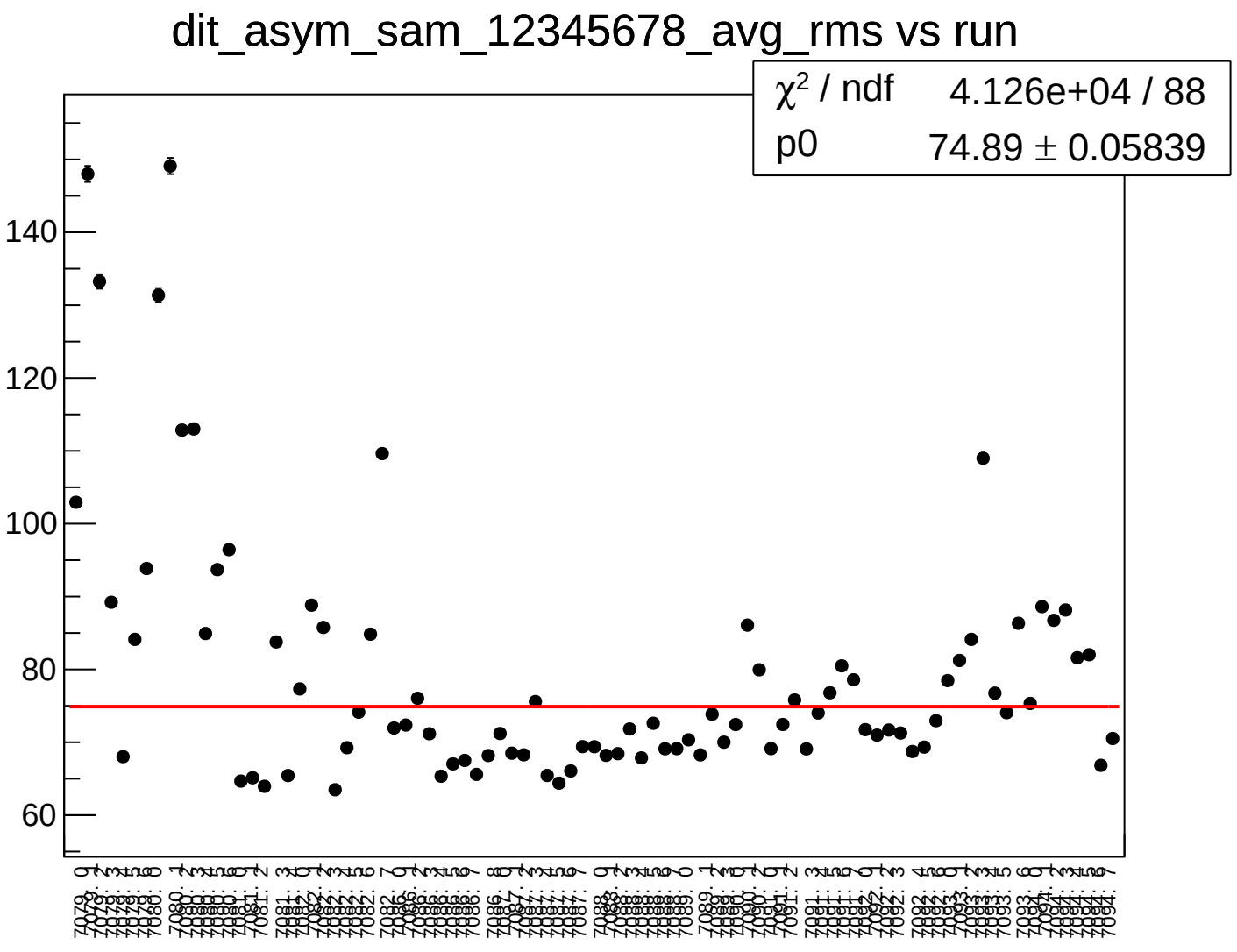

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.22e+04 / 88
p0 62.77 ± 0.04852
85
80
75
70
65
60
55

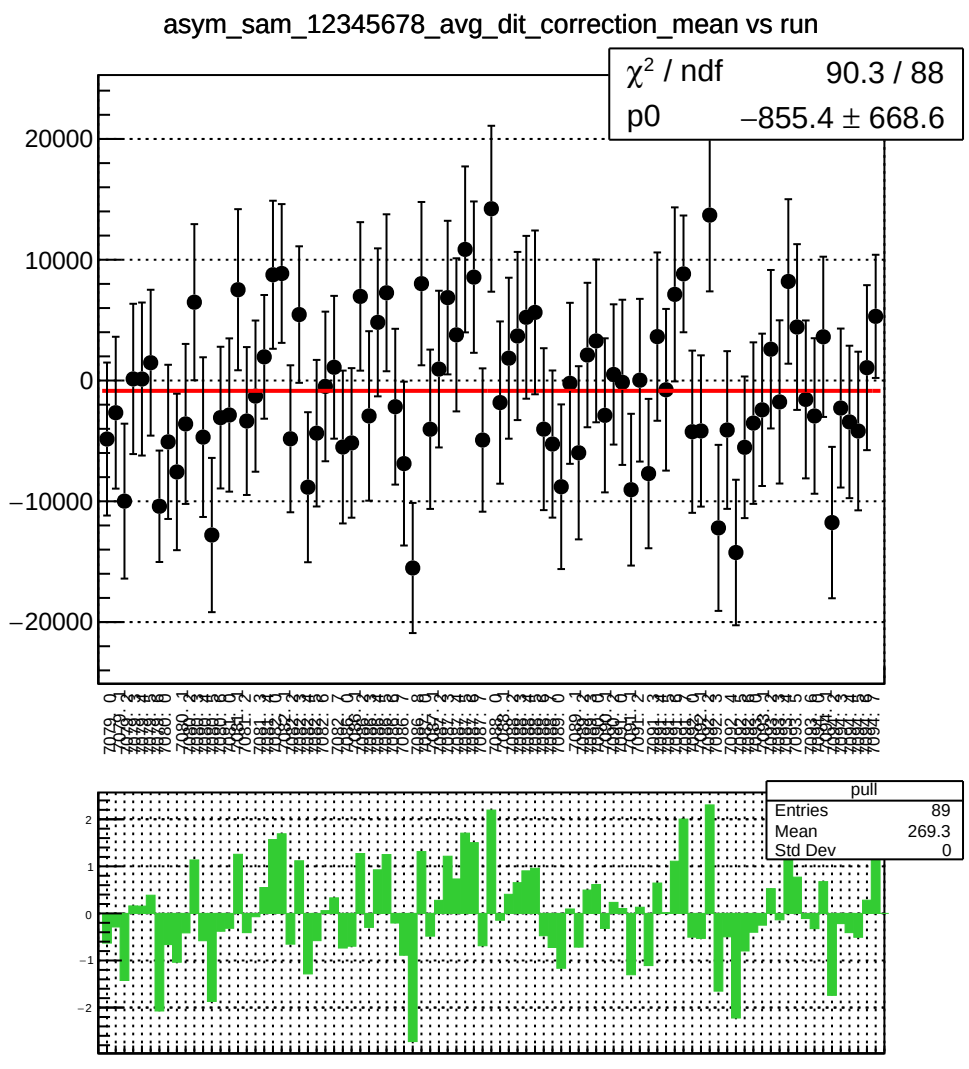

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.45 / 88
p0 −847.1 ± 677.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 559
Std Dev 0
2
1
0
−1
−2

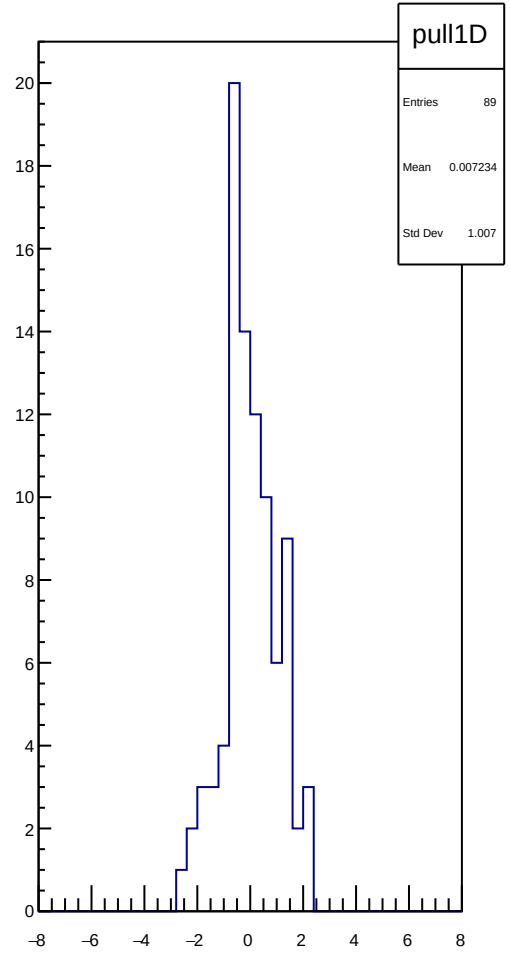

pull1D
Entries 89
Mean 0.003773
Std Dev 0.9969
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

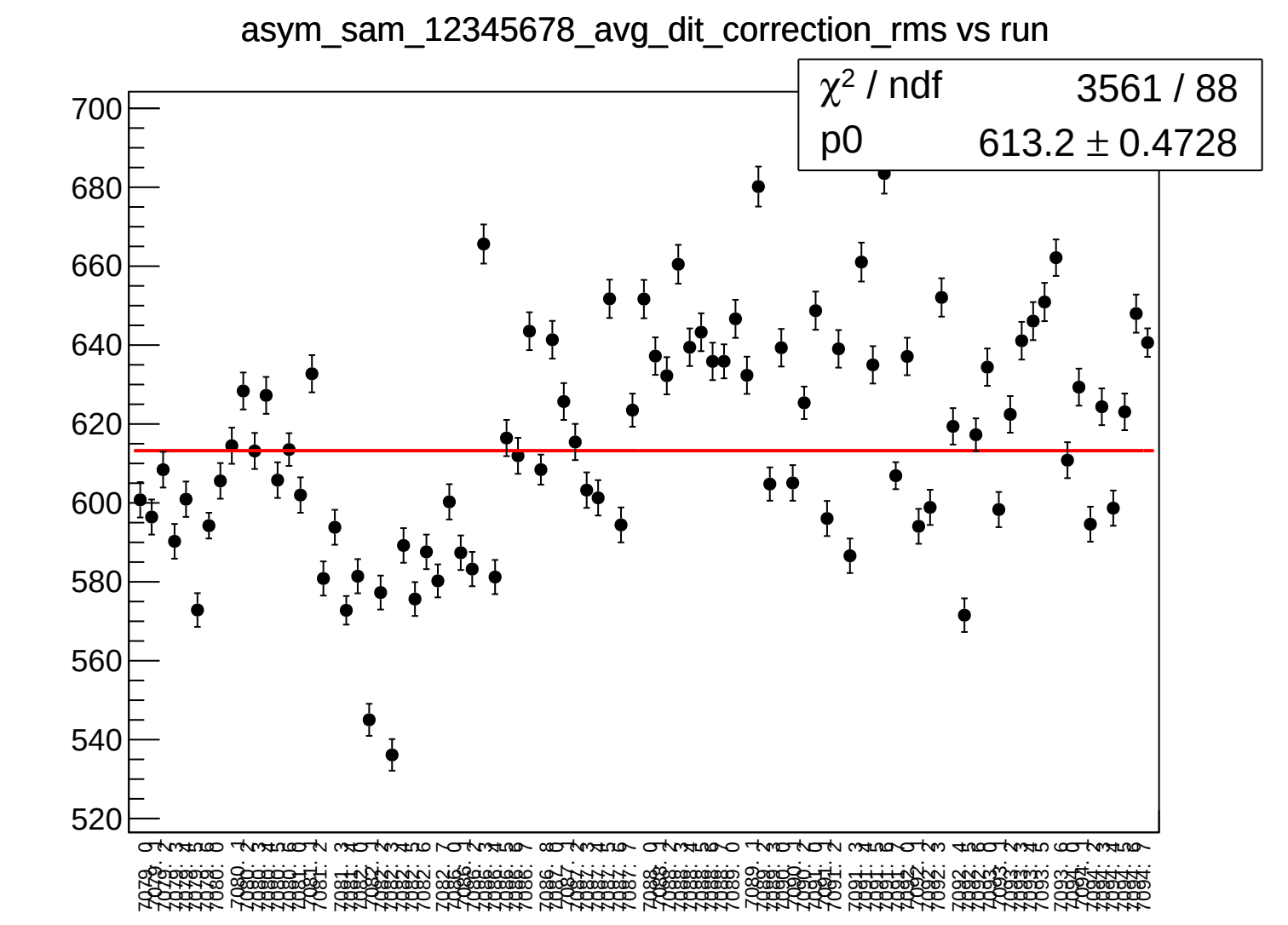

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 4131 / 88
p0 621.1 ± 0.4789
720
700
680
660
640
620
600
580
560
540
520

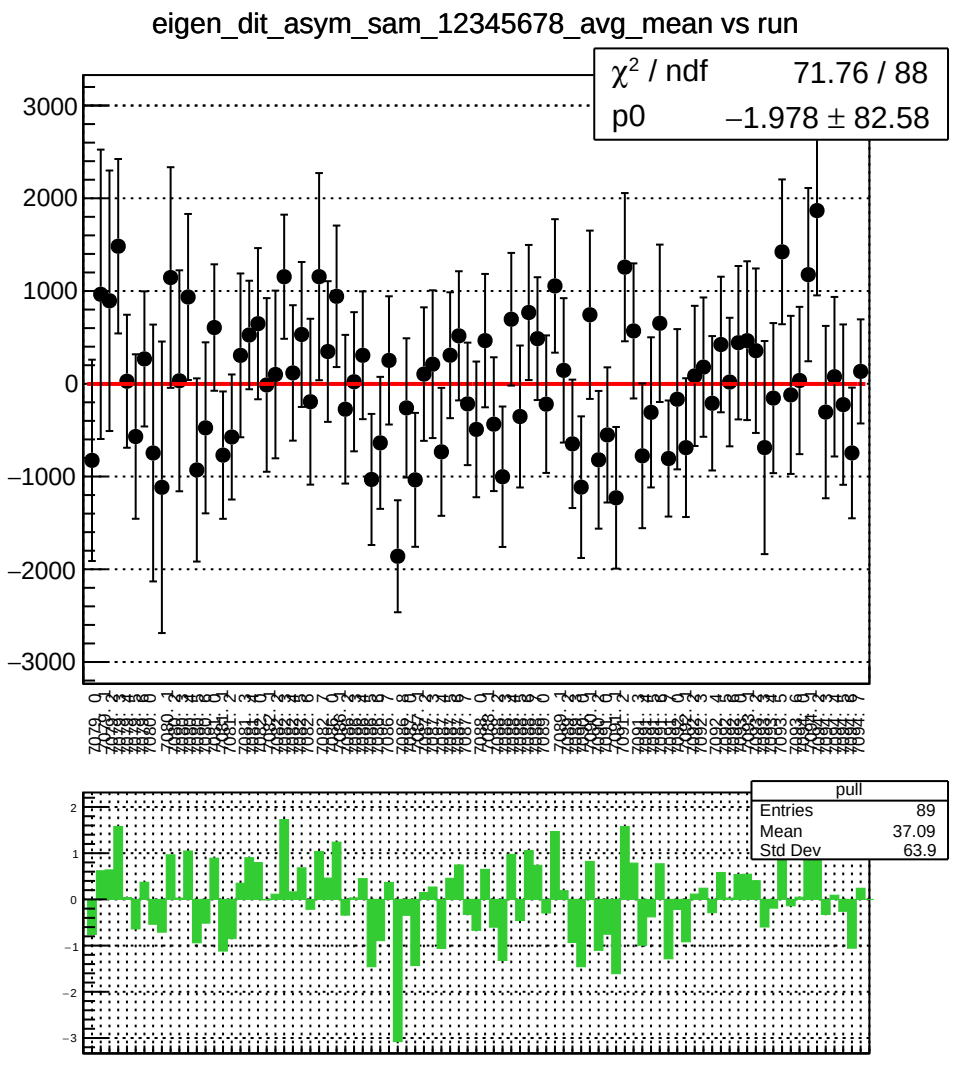

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 71.76 / 88
p0 −1.981 ± 82.58
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 37.09
Std Dev 63.9
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.02308
Std Dev 0.8976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

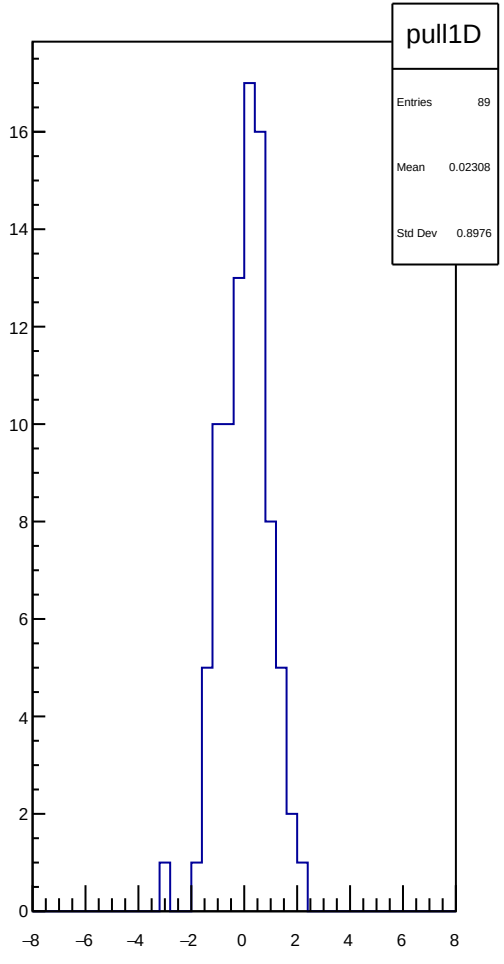

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.126e+04 / 88
p0 74.89 ± 0.05839
140
120
100
80
60

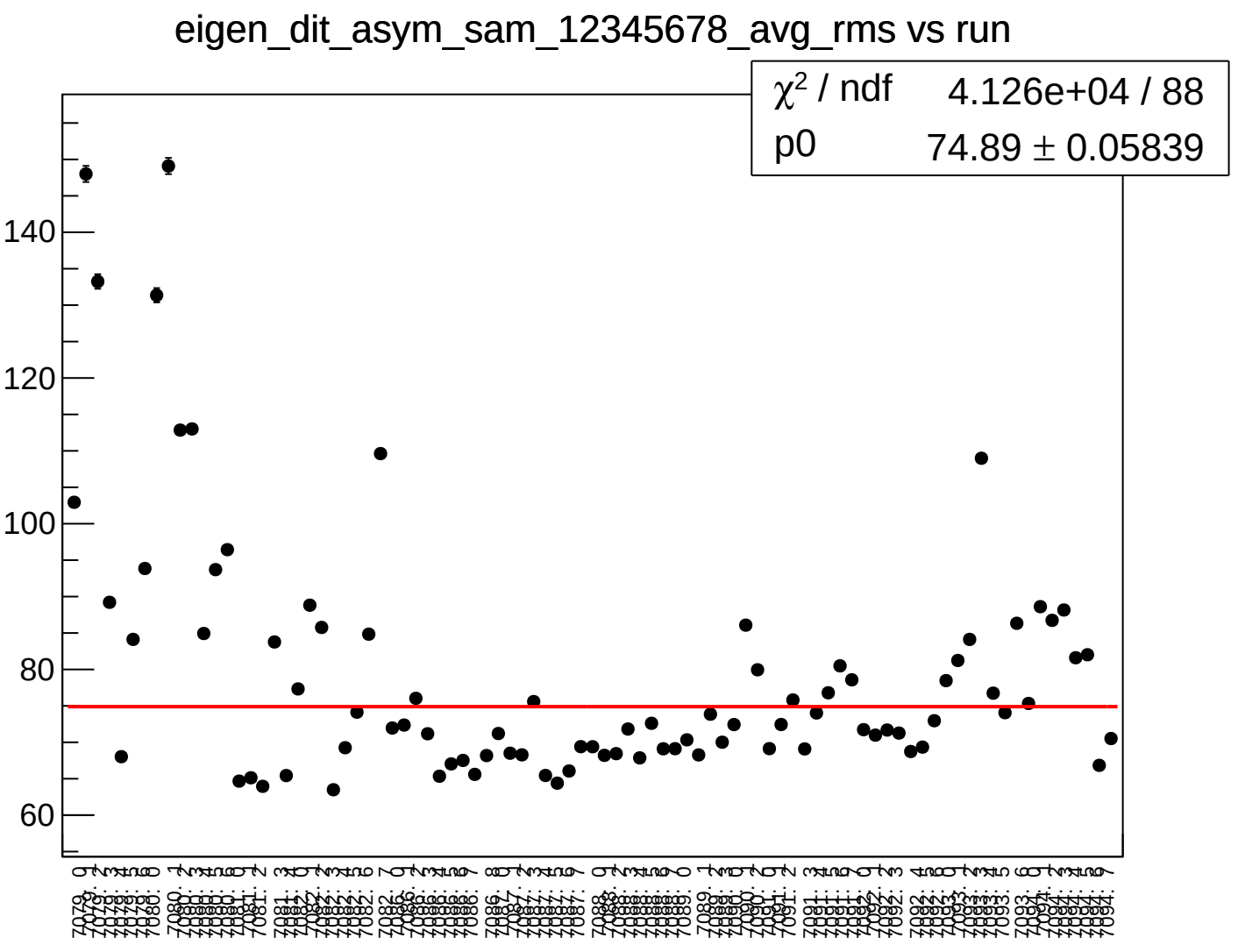

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 90.3 / 88
p0 −855.4 ± 668.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 269.3
Std Dev 0
2
1
0
−1
−2

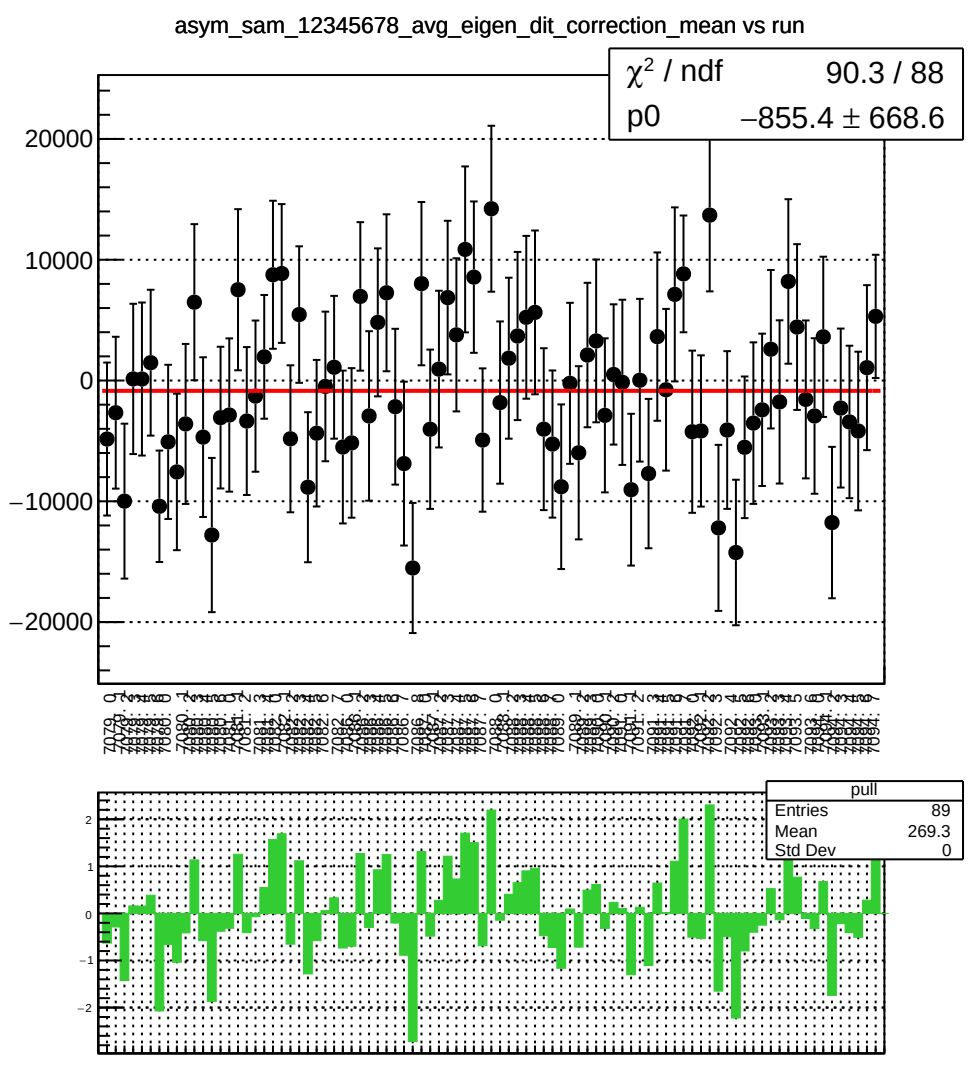

pull1D
Entries 89
Mean 0.007234
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

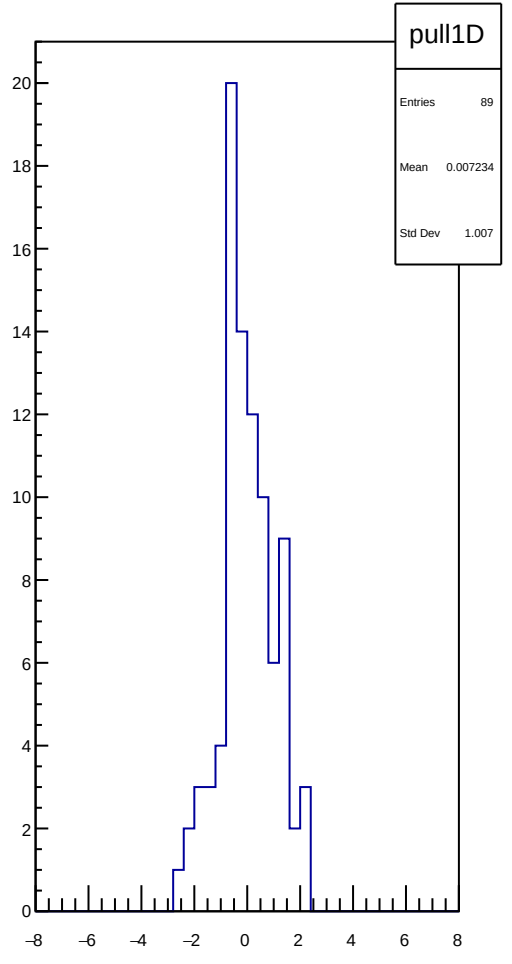

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 3561 / 88
p0 613.2 ± 0.4728
700
680
660
640
620
600
580
560
540
520

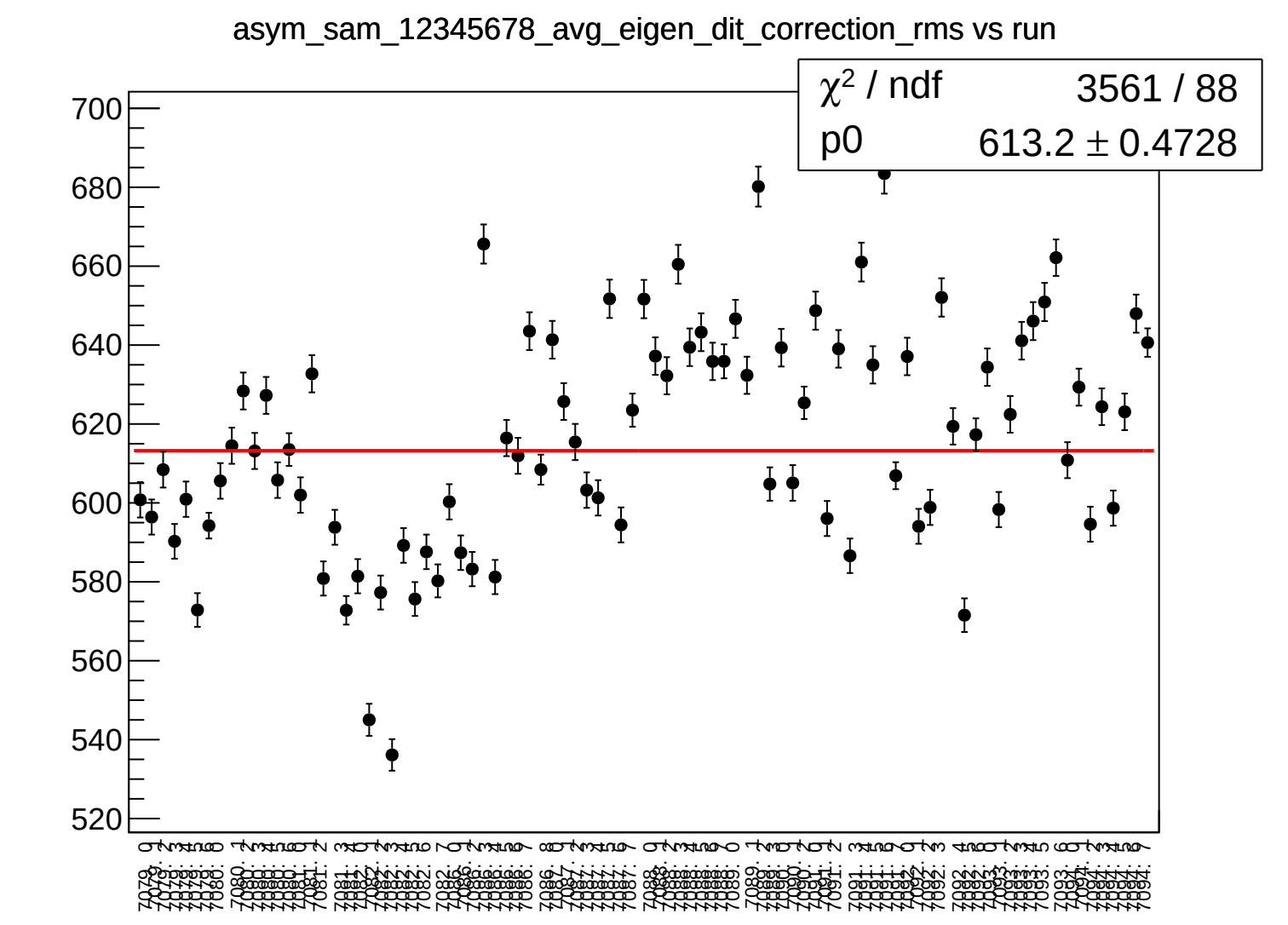

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 71.76 / 88
p0 −1.978 ± 82.58
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 37.09
Std Dev 63.9
2
1
0
−1
−2
−3

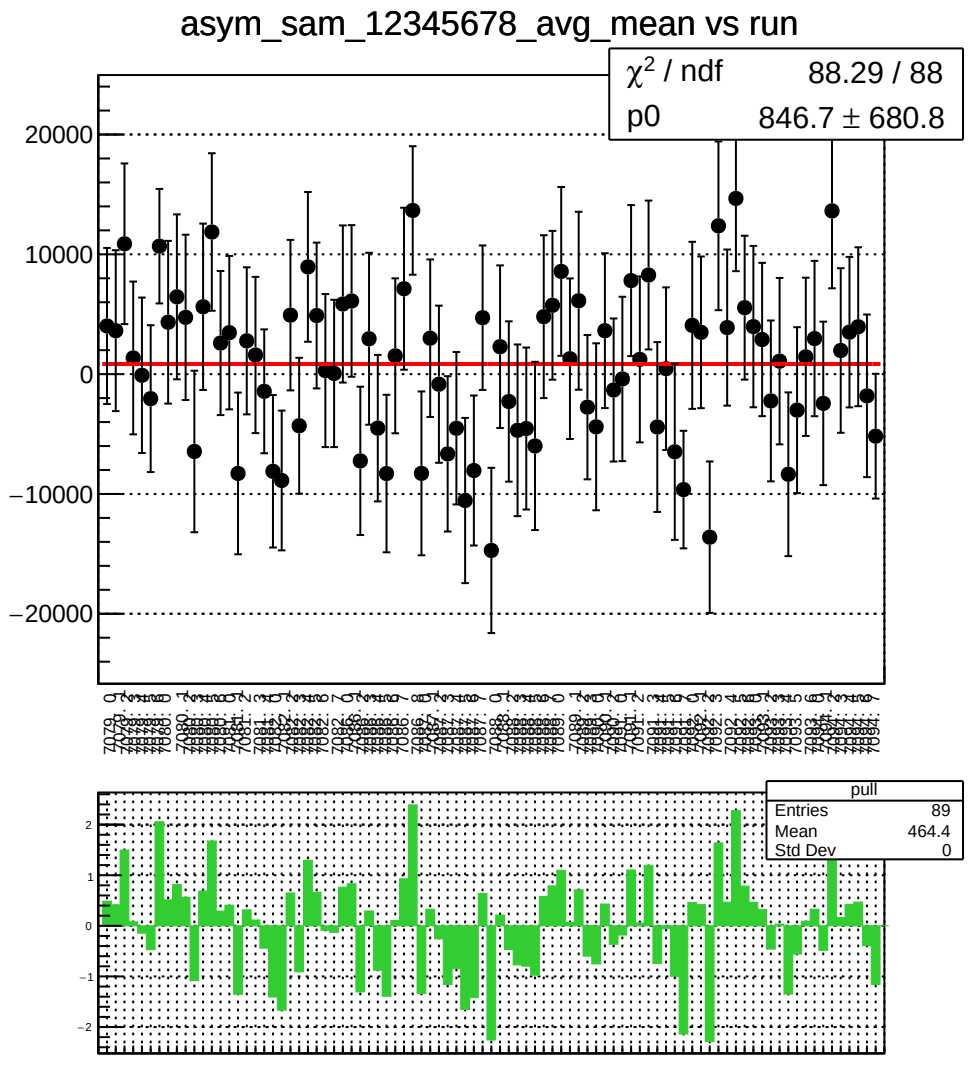

pull1D
Entries 89
Mean 0.02308
Std Dev 0.8976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

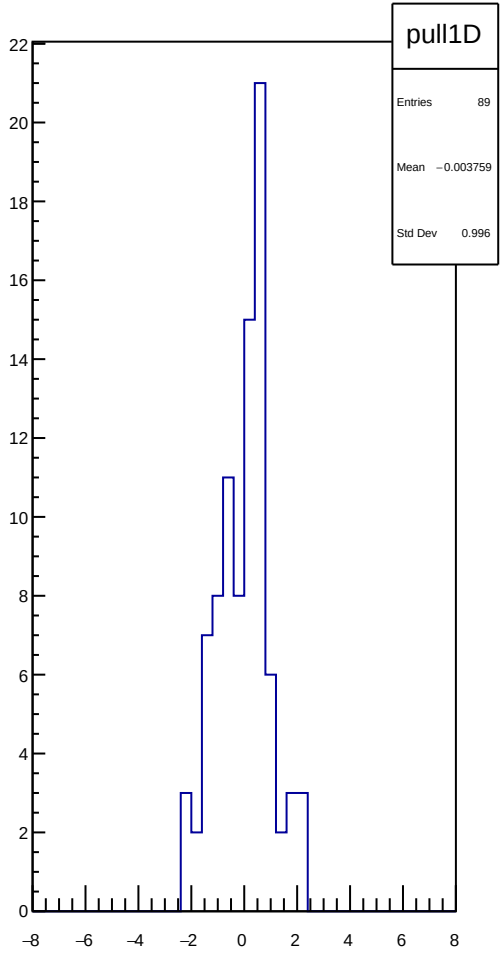

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.126e+04 / 88
p0 74.89 ± 0.05839
140
120
100
80
60

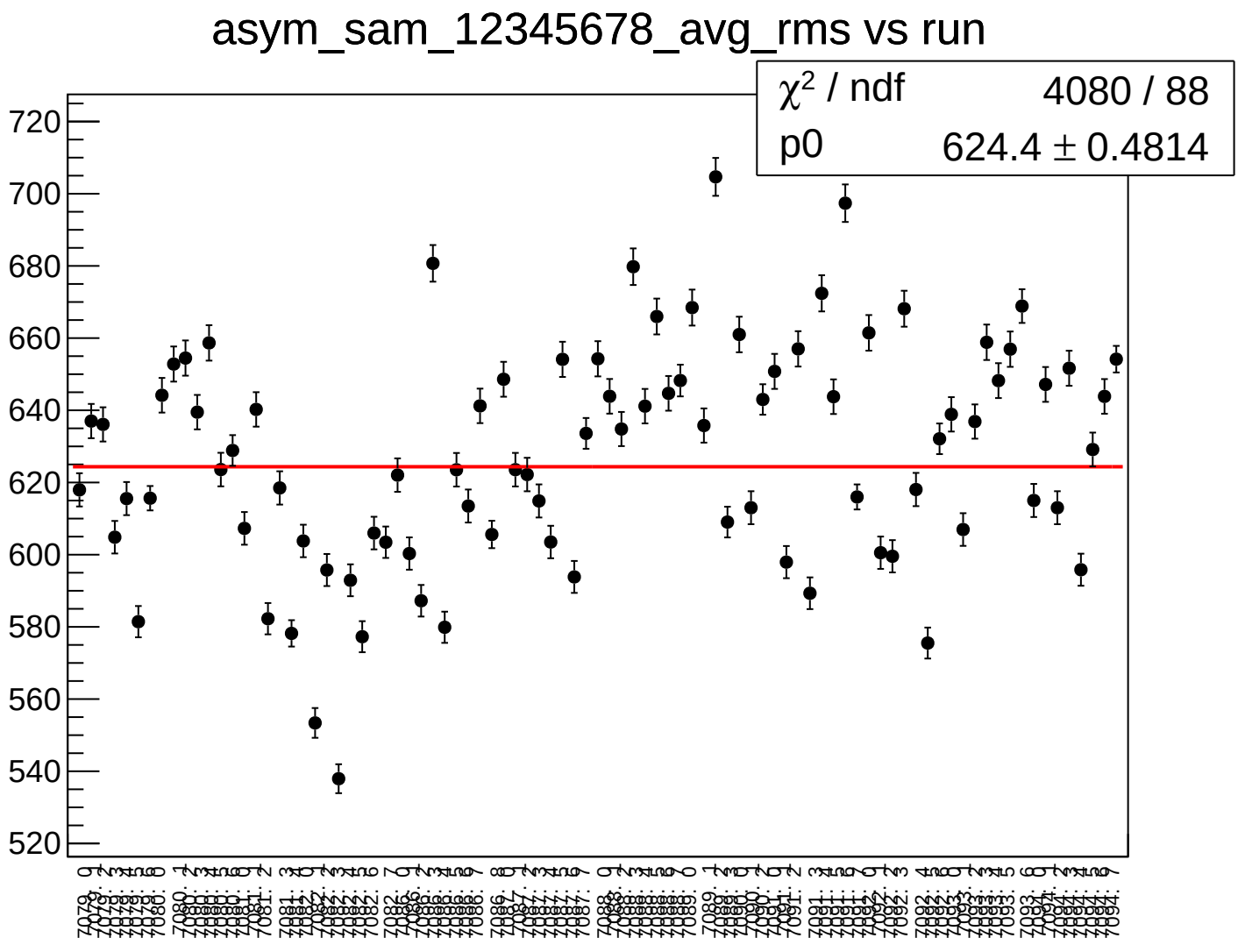

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.3 / 88
p0 −855.4 ± 668.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 269.3
Std Dev 0
2
1
0
−1
−2

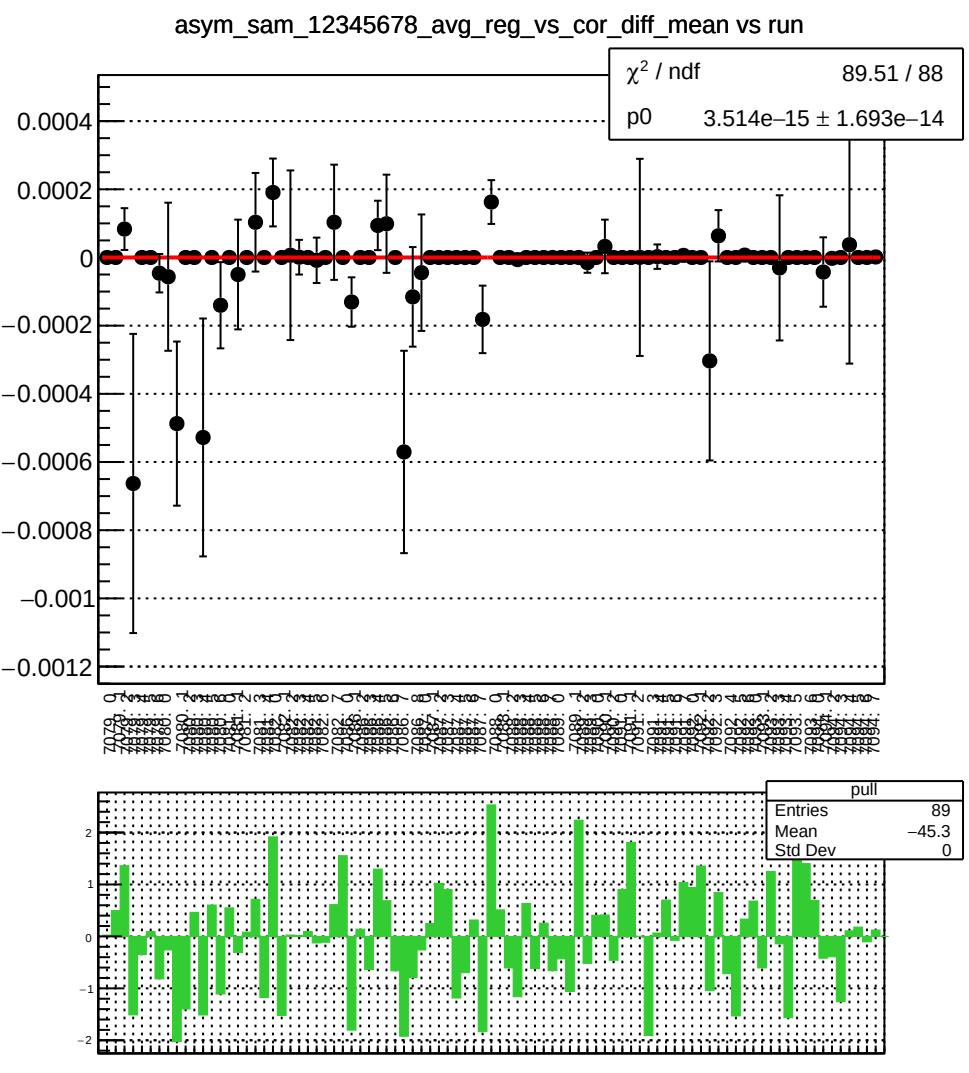

pull1D
Entries 89
Mean 0.007234
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

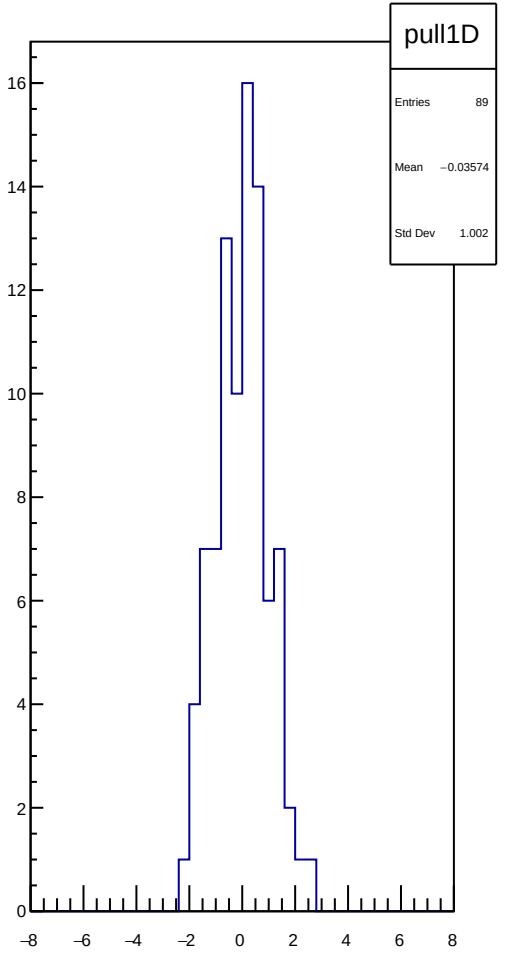

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 3561 / 88
p0 613.2 ± 0.4728
700
680
660
640
620
600
580
560
540
520

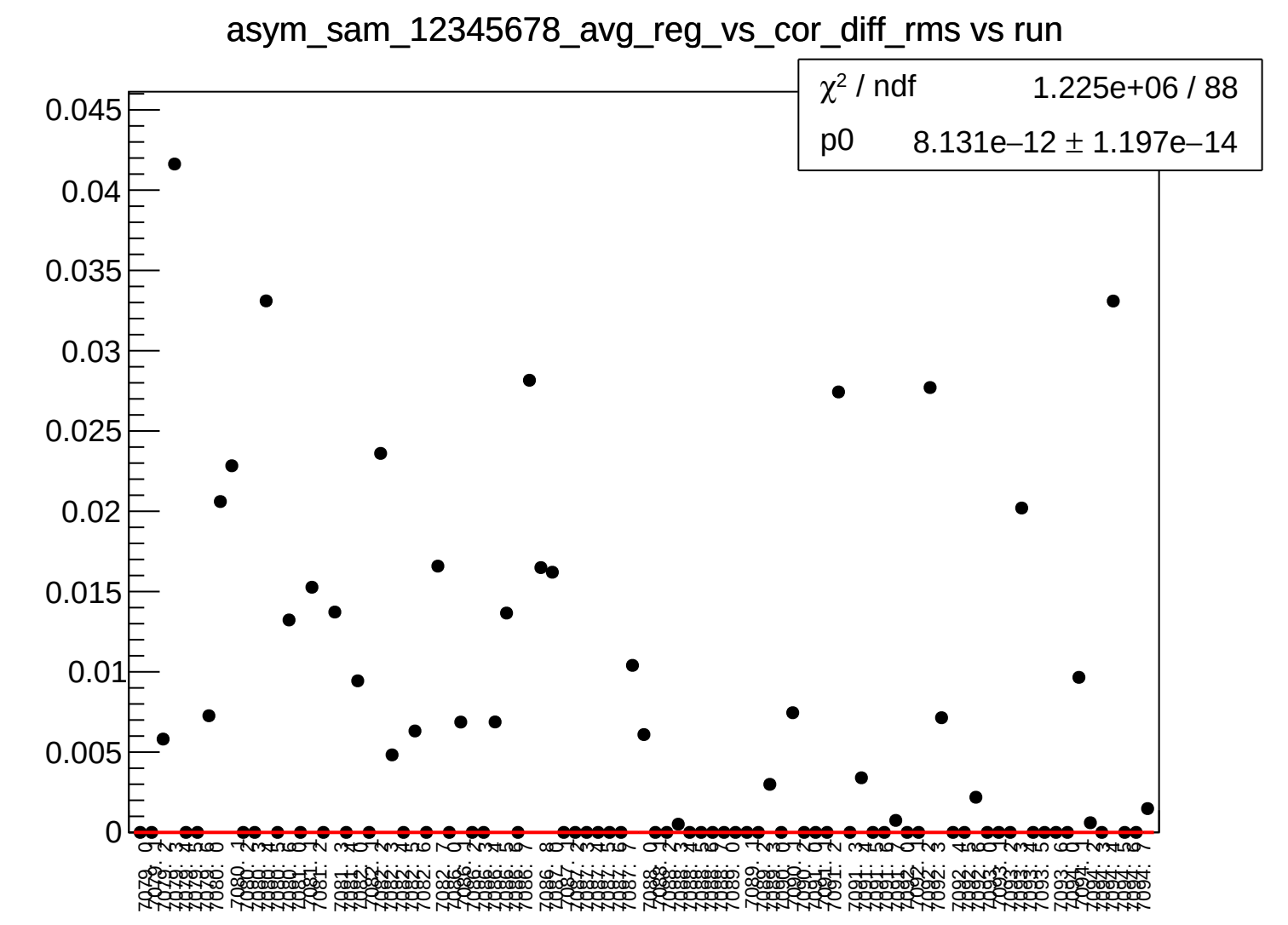

asym_sam_12345678_avg_mean vs run
χ² / ndf 88.29 / 88
p0 846.7 ± 680.8
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 464.4
Std Dev 0
2
1
0
−1
−2

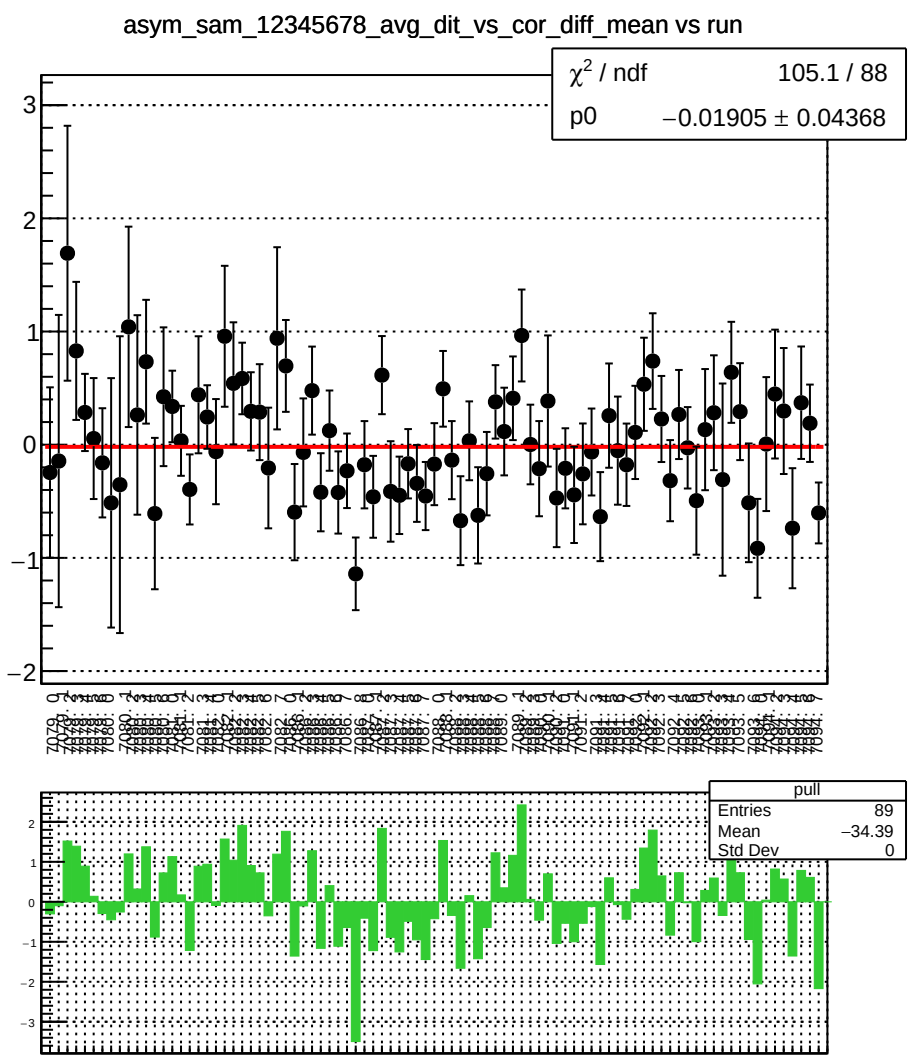

pull1D
Entries 89
Mean −0.003759
Std Dev 0.996
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

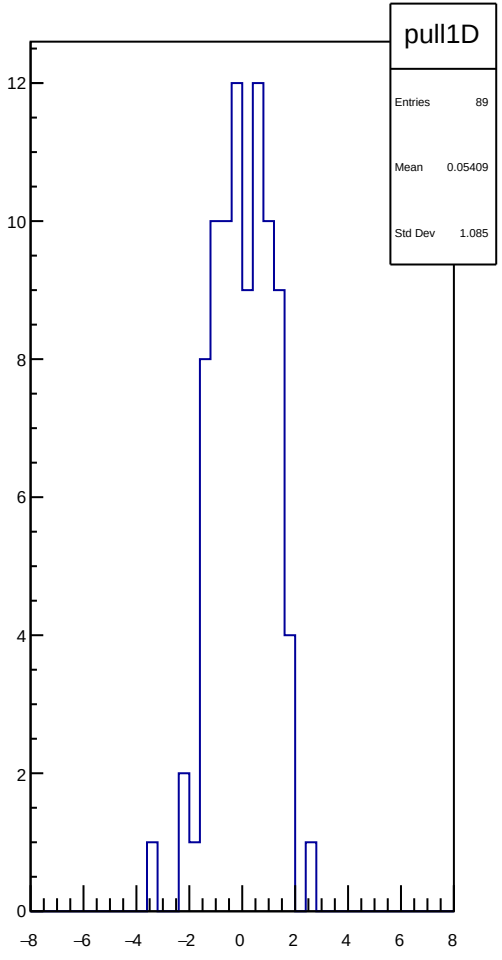

asym_sam_12345678_avg_rms vs run
χ² / ndf 4080 / 88
p0 624.4 ± 0.4814
720
700
680
660
640
620
600
580
560
540
520

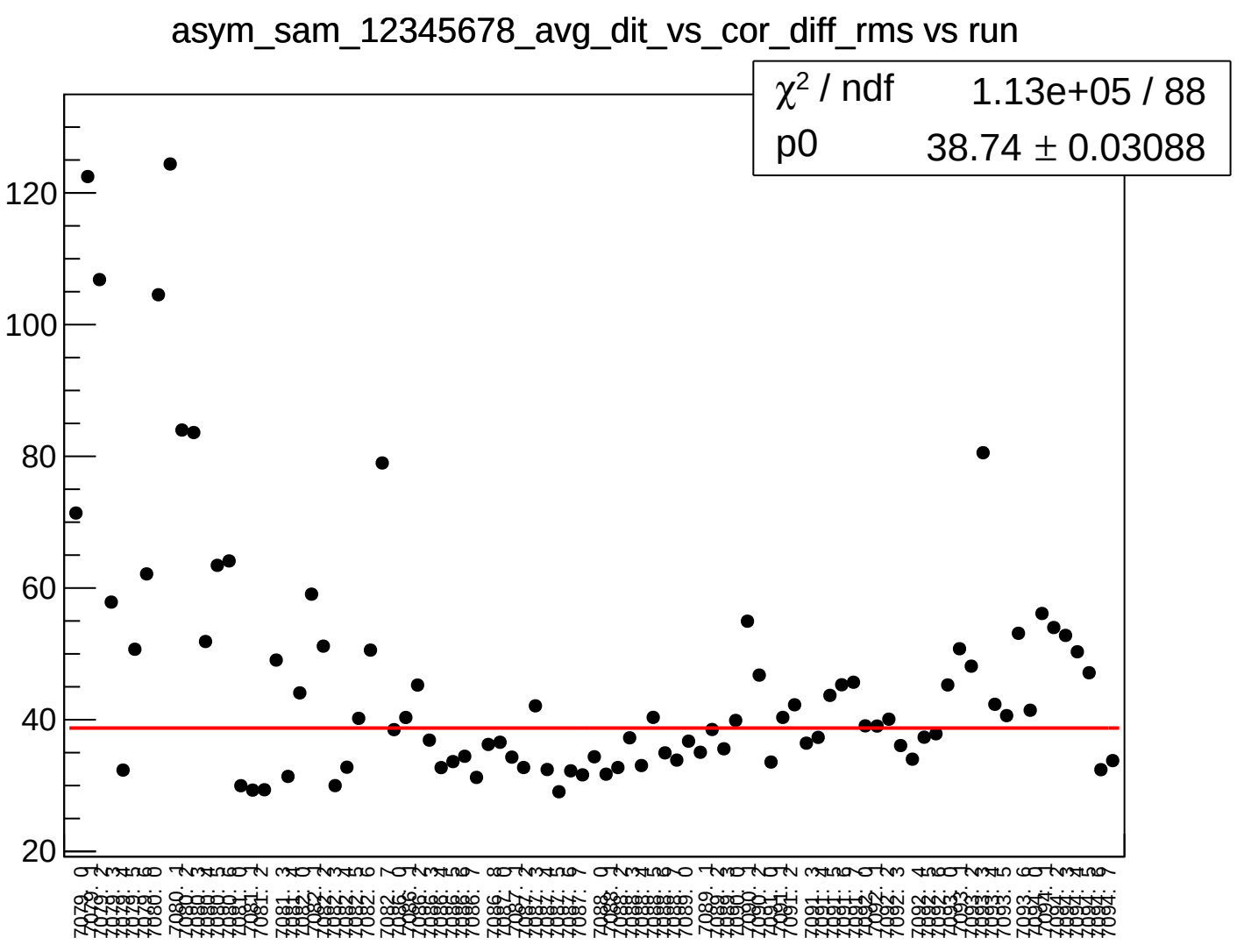

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.51 / 88
p0 3.514e−15 ± 1.693e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 89
Mean −45.3
Std Dev 0
2
1
0
−1
−2

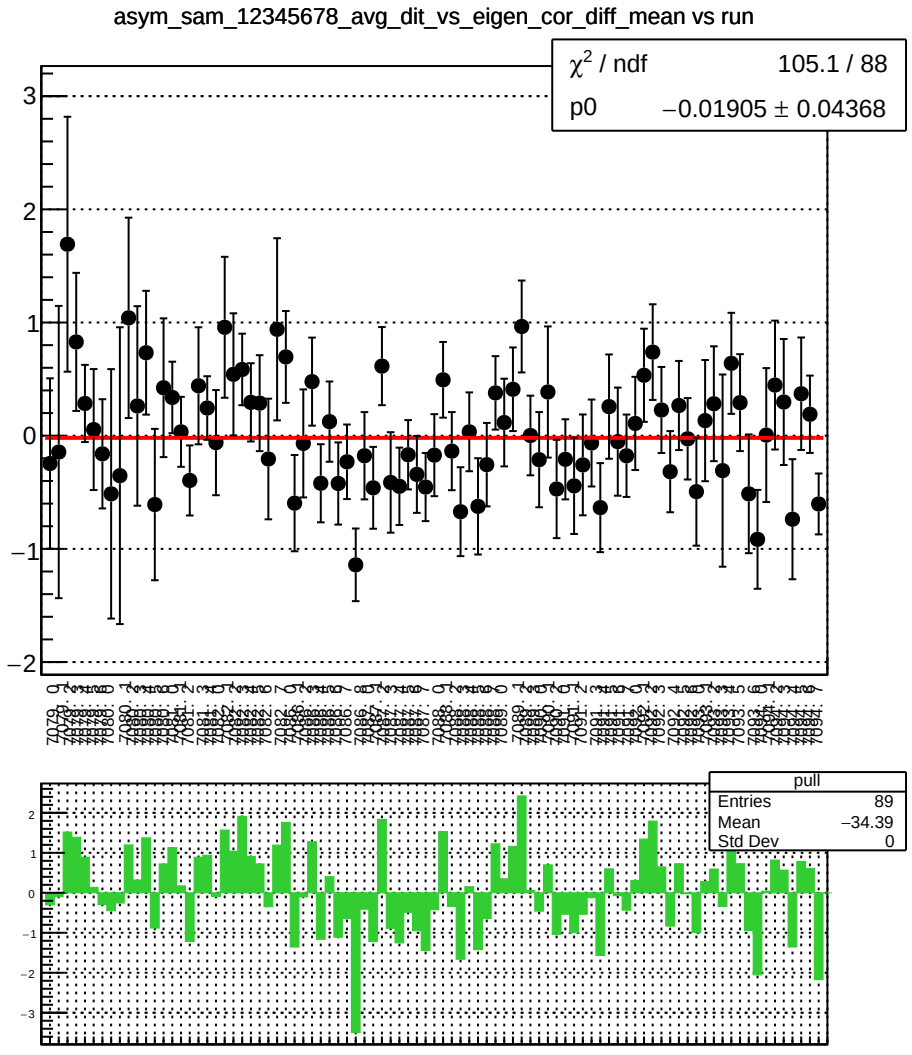

pull1D
Entries 89
Mean −0.03574
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

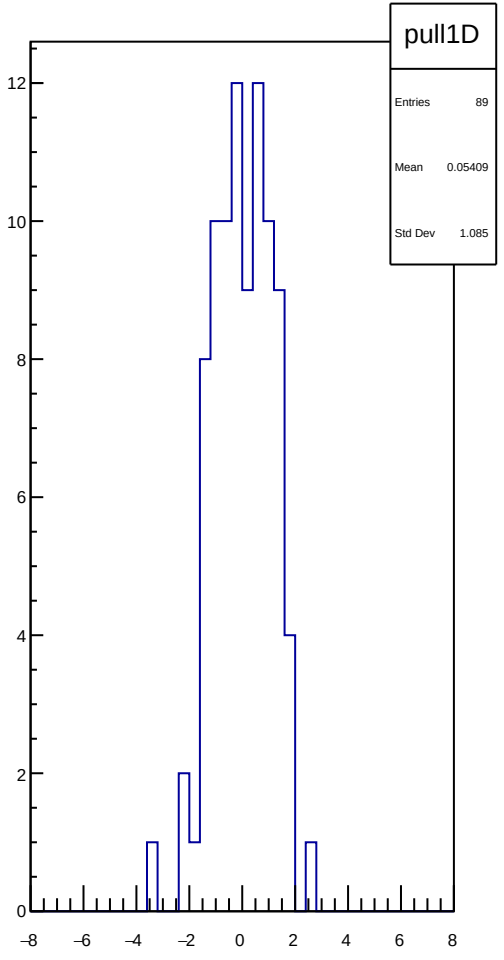

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.225e+06 / 88
p0 8.131e−12 ± 1.197e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

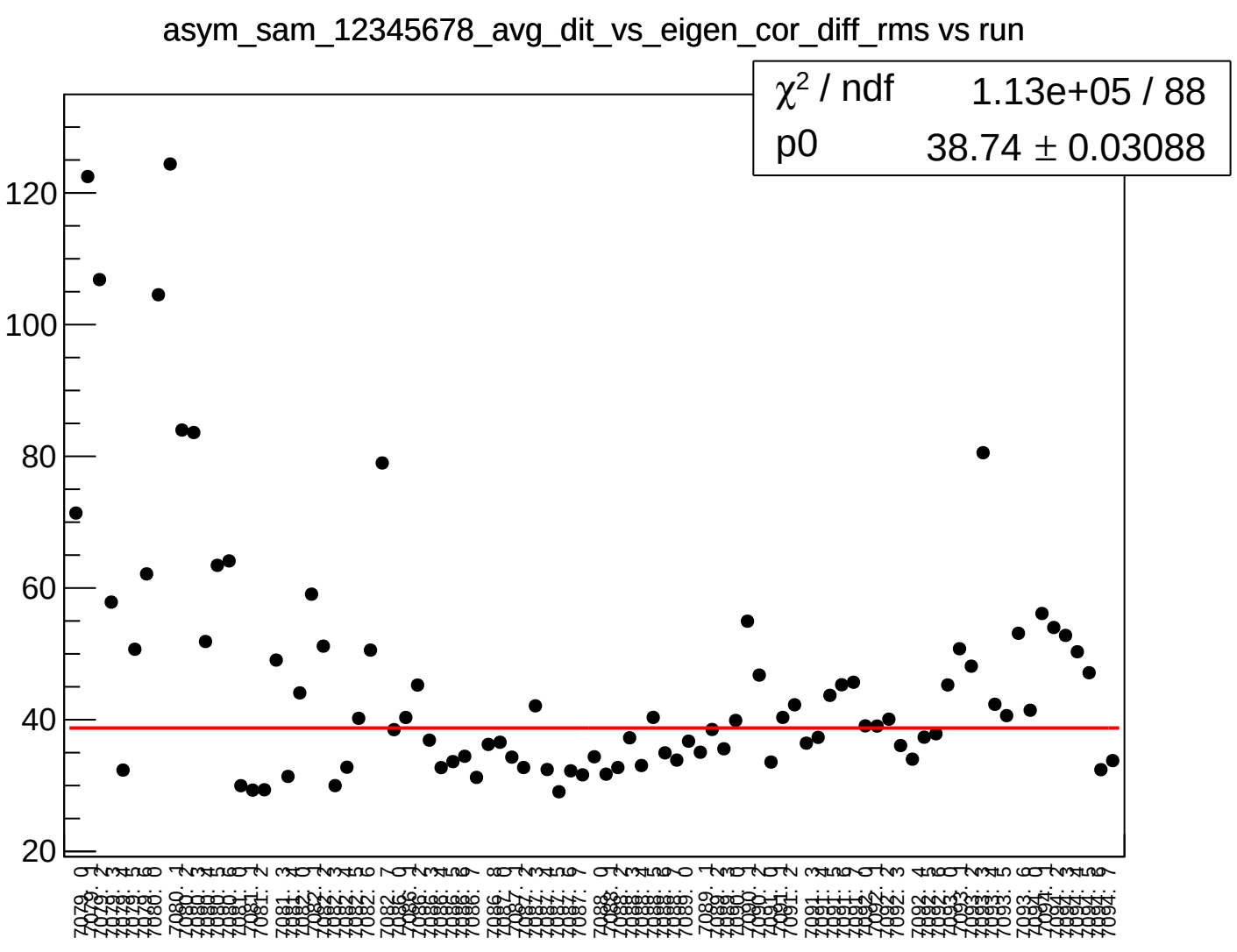

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 88
p0 −0.01905 ± 0.04368
pull
Entries 89
Mean −34.39
Std Dev 0

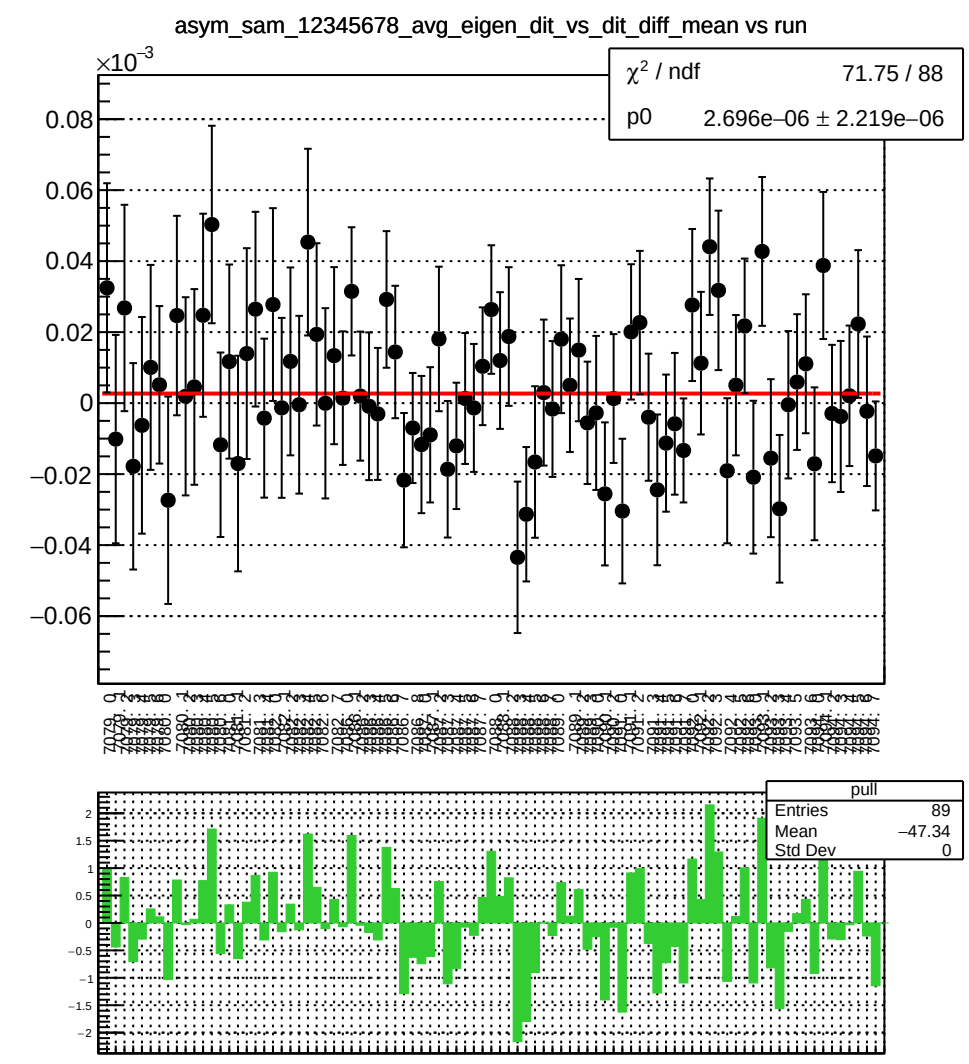

pull1D
Entries 89
Mean 0.05409
Std Dev 1.085

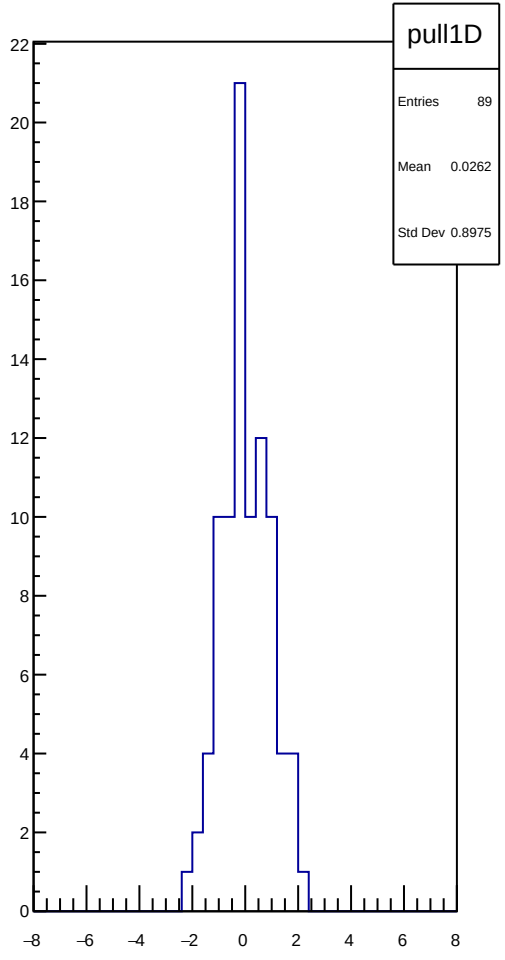

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.13e+05 / 88
p0 38.74 ± 0.03088
120
100
80
60
40
20

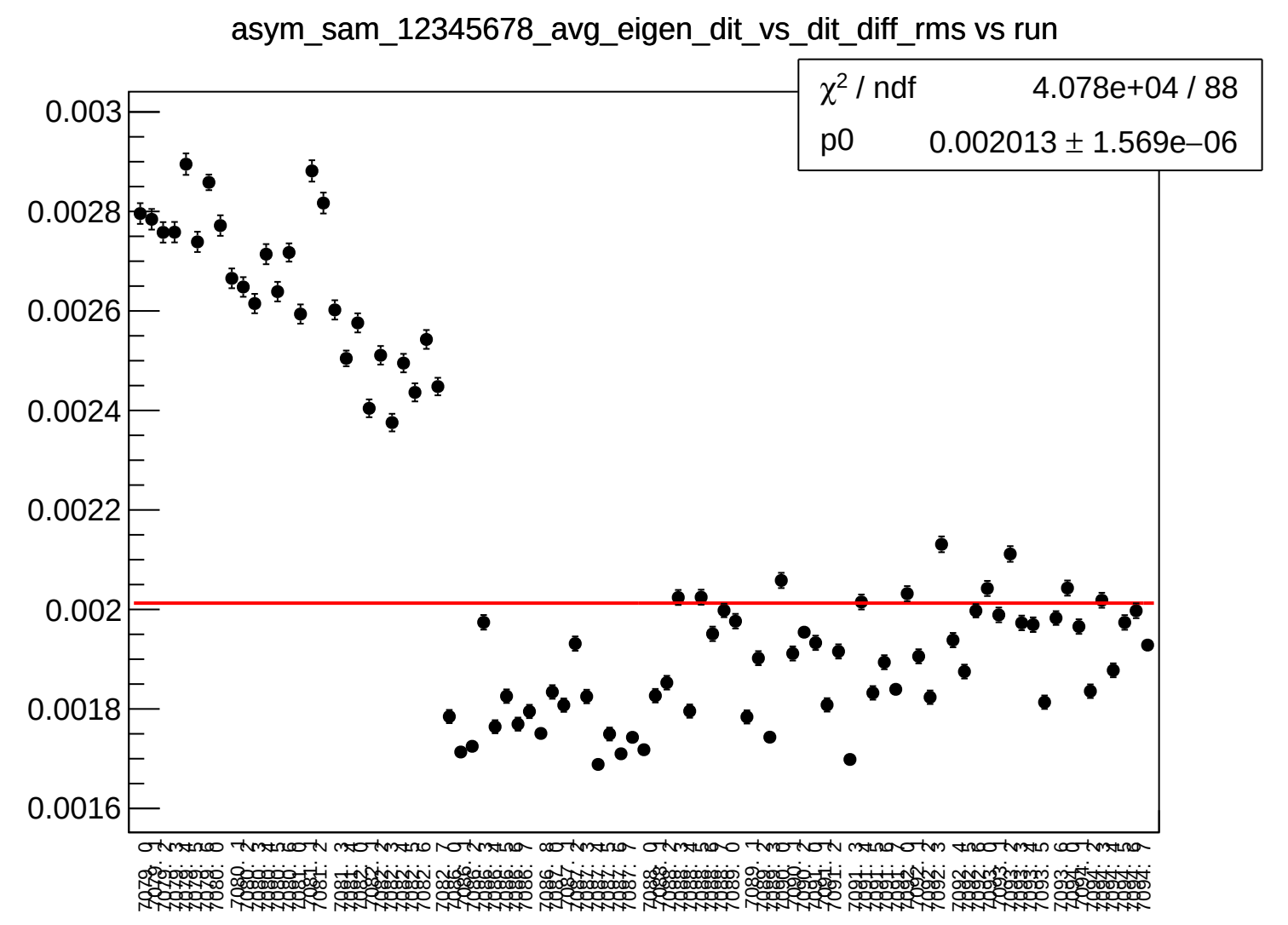

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 88
p0 −0.01905 ± 0.04368
pull
Entries 89
Mean −34.39
Std Dev 0

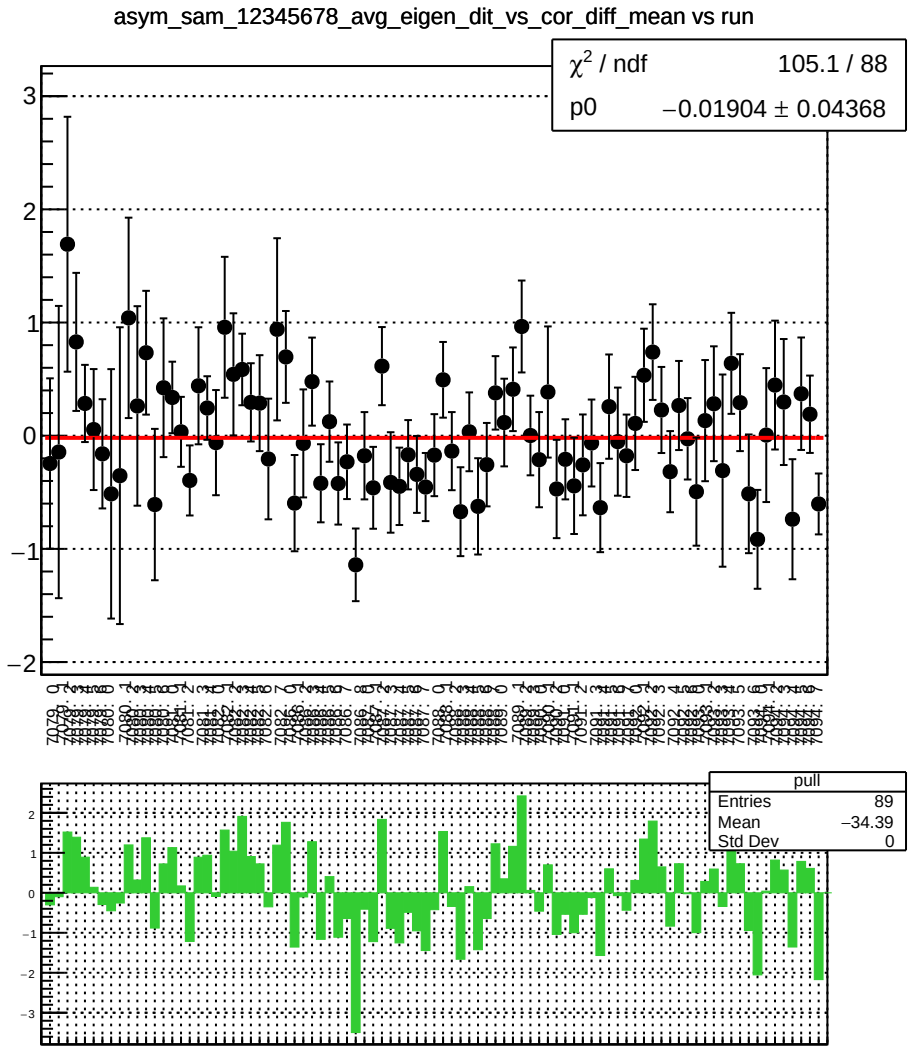

pull1D
Entries 89
Mean 0.05409
Std Dev 1.085

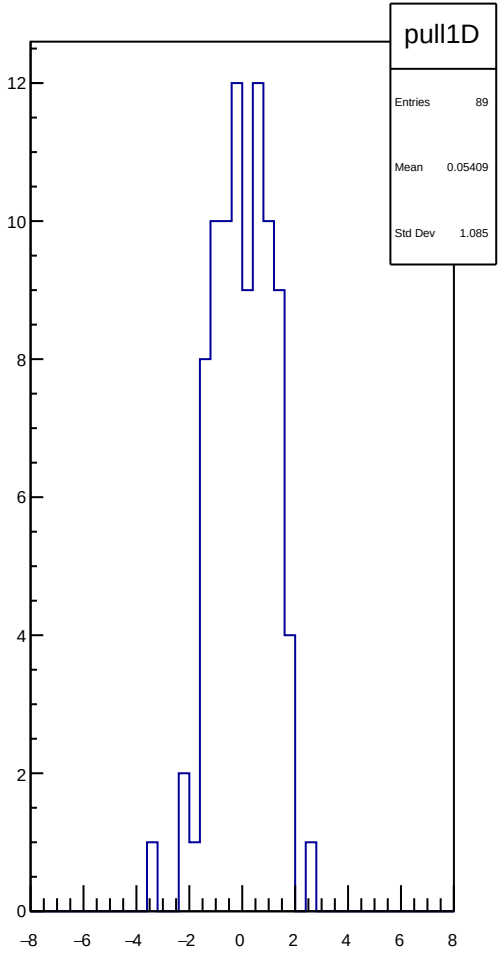

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.13e+05 / 88
p0 38.74 ± 0.03088
120
100
80
60
40
20

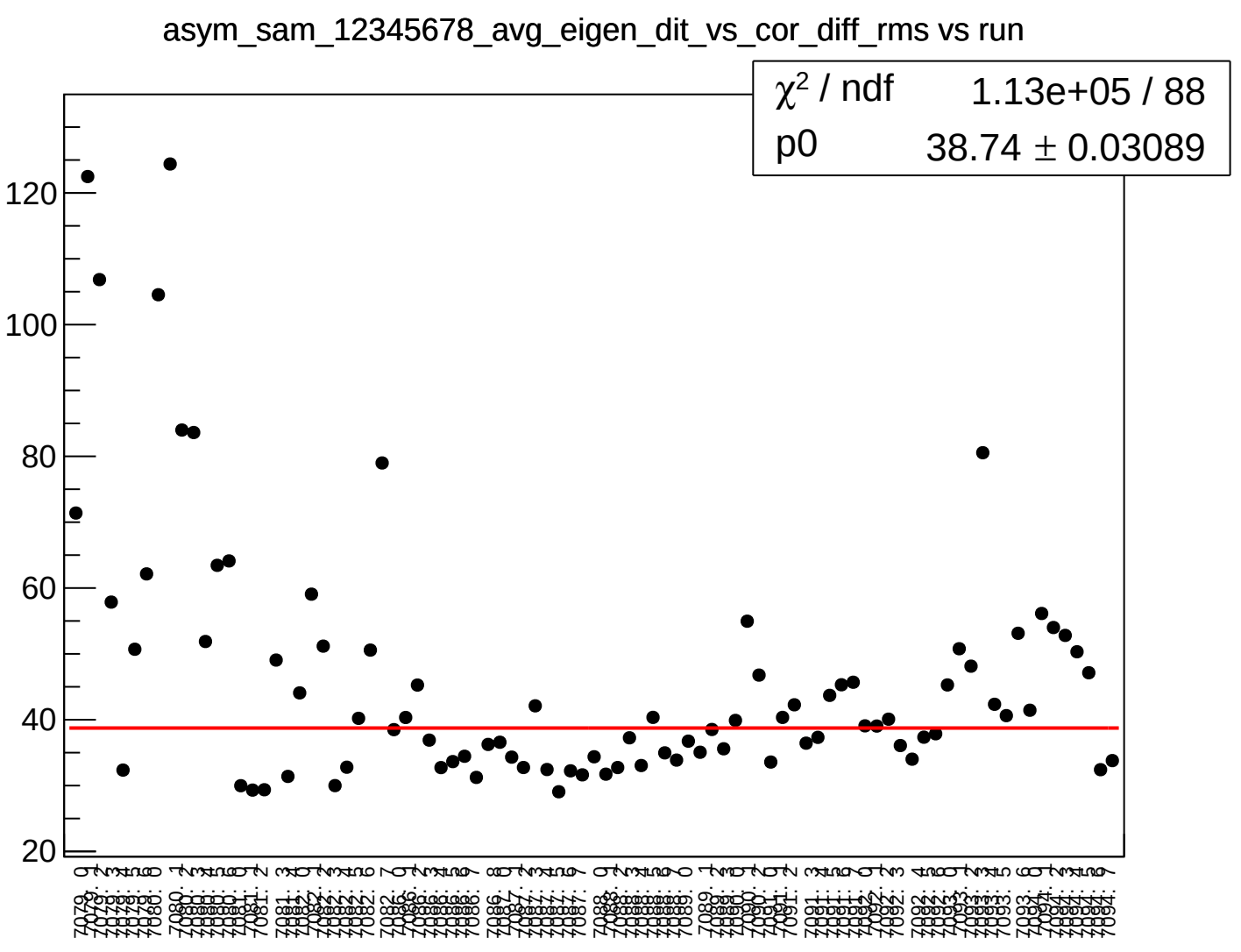

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.75 / 88
p0 2.696e−06 ± 2.219e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −47.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

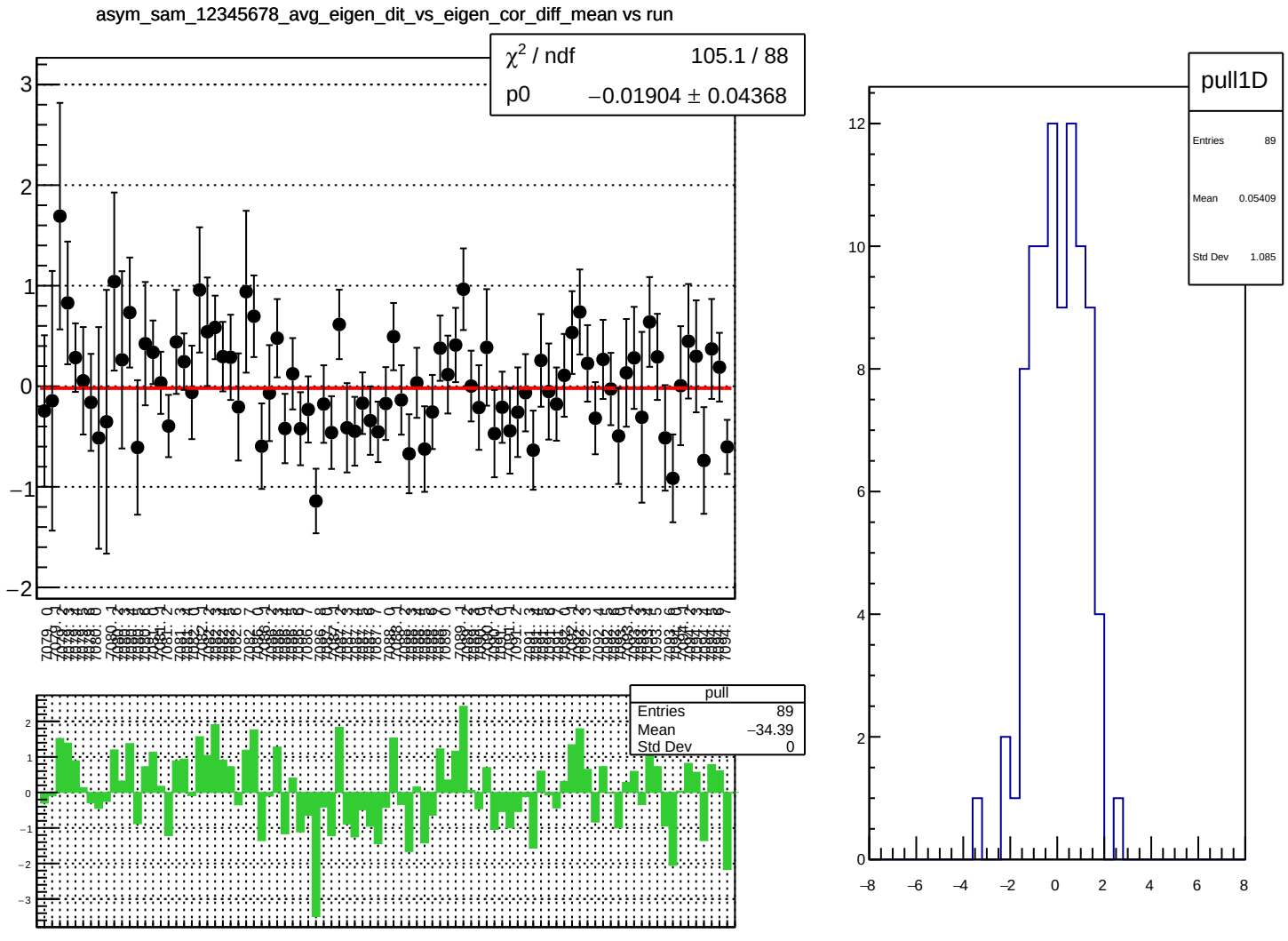

pull1D
Entries 89
Mean 0.0262
Std Dev 0.8975
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

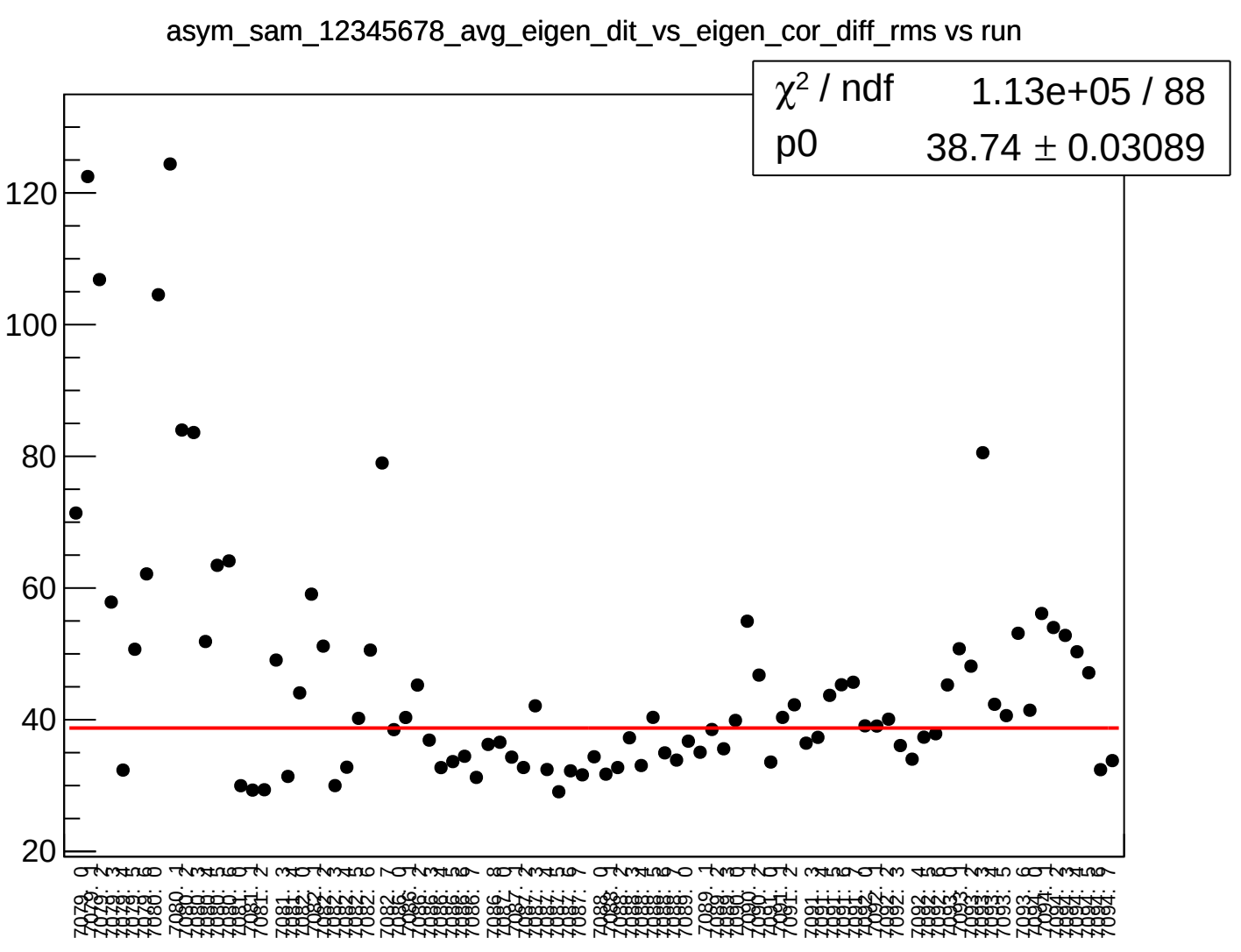

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.078e+04 / 88
p0 0.002013 ± 1.569e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

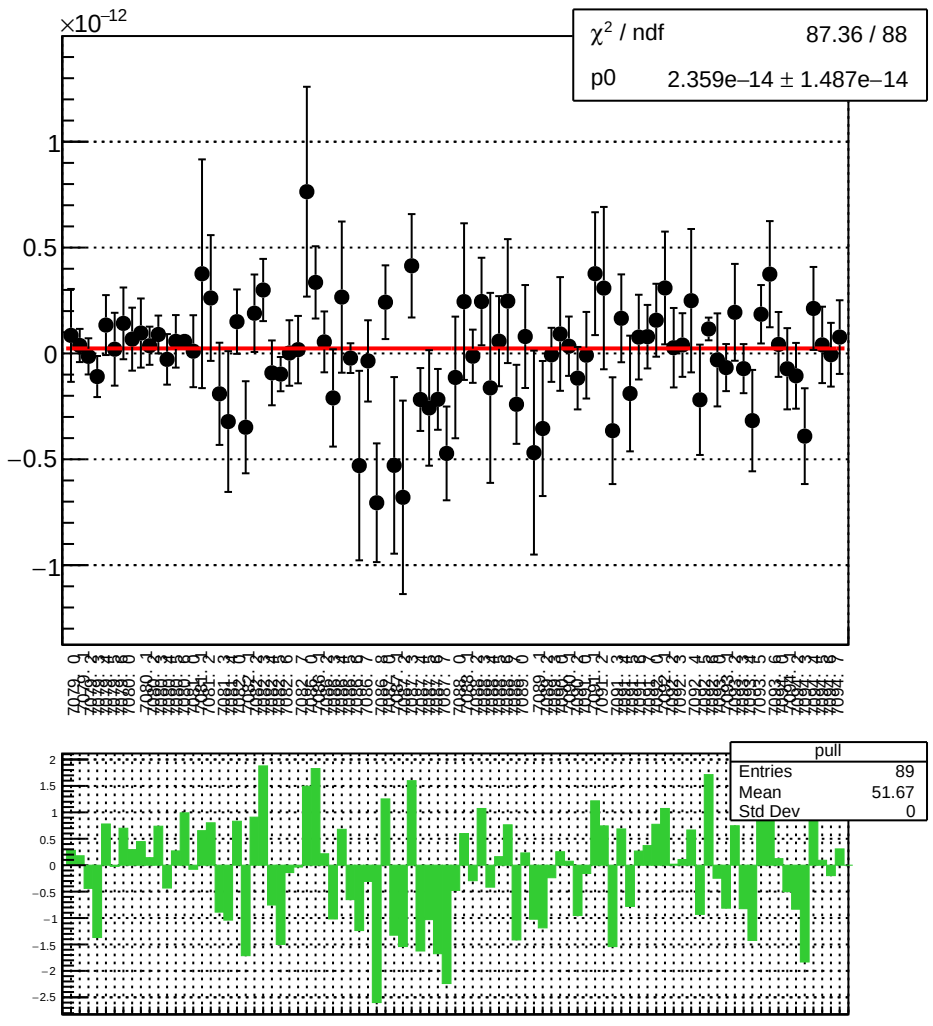

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 88
p0 −0.01904 ± 0.04368
pull
Entries 89
Mean −34.39
Std Dev 0

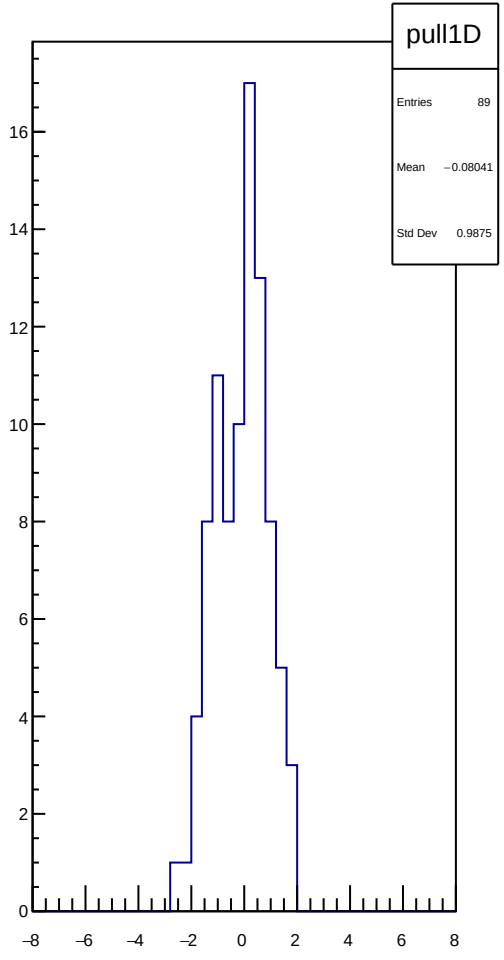

pull1D
Entries 89
Mean 0.05409
Std Dev 1.085

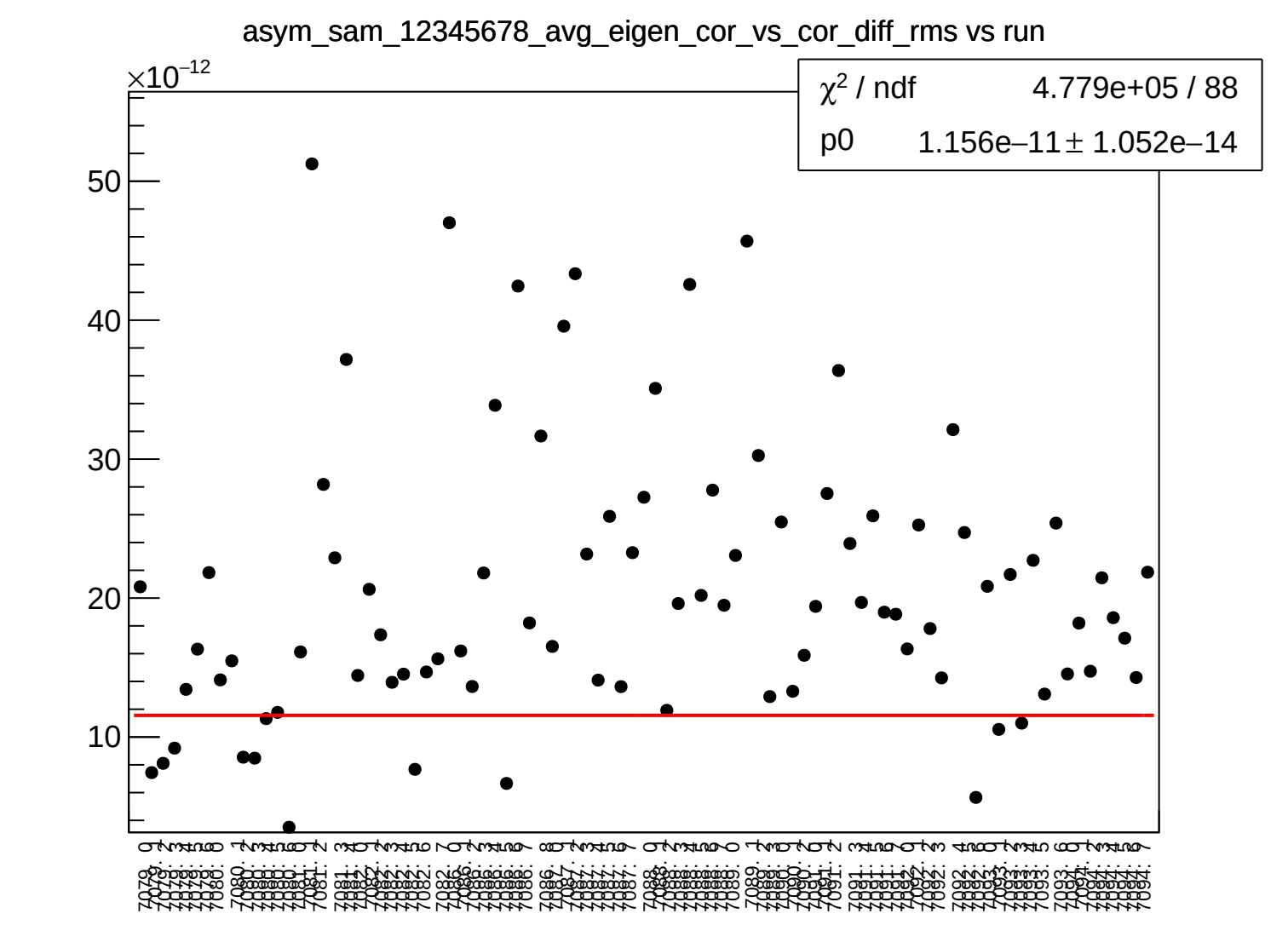

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.13e+05 / 88
p0 38.74 ± 0.03089
120
100
80
60
40
20

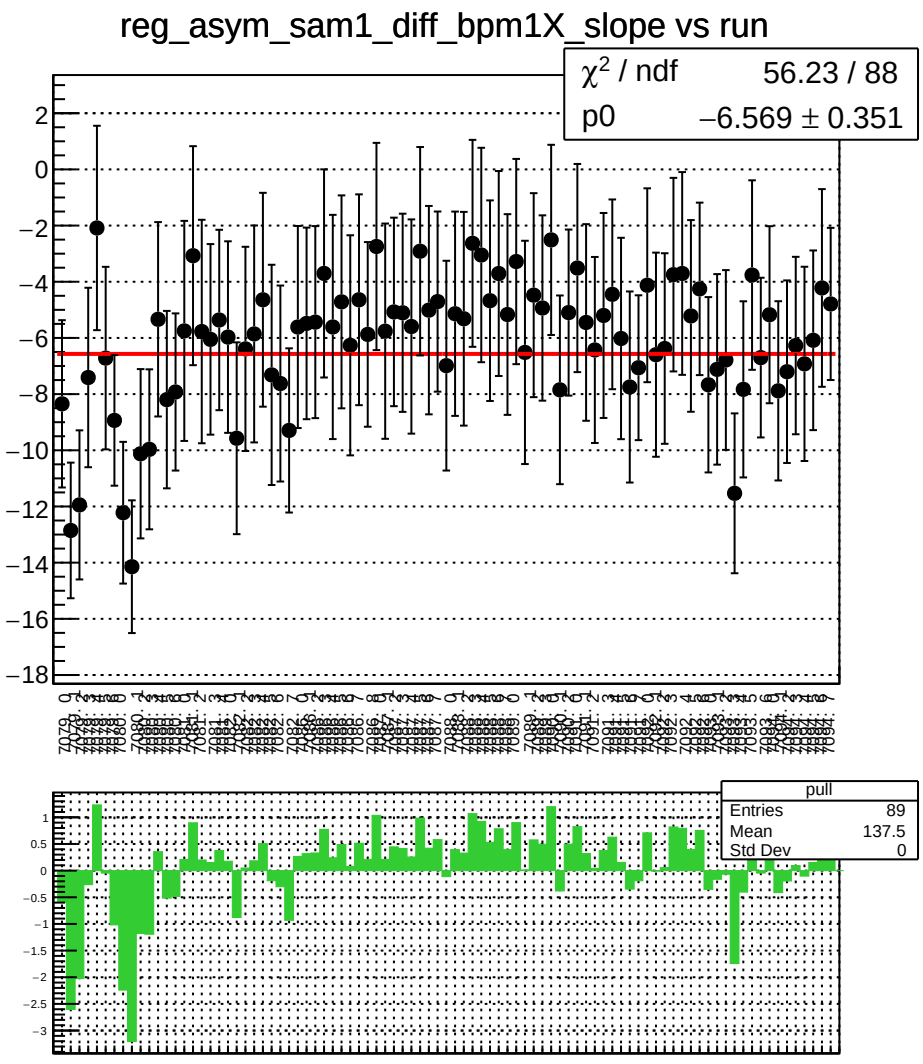

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 88
p0 −0.01904 ± 0.04368
pull
Entries 89
Mean −34.39
Std Dev 0
pull1D
Entries 89
Mean 0.05409
Std Dev 1.085

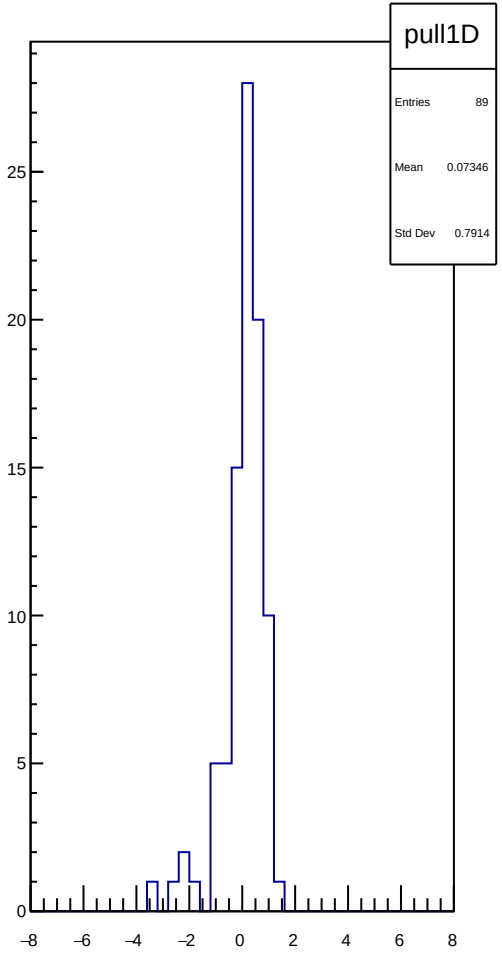

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.13e+05 / 88
p0 38.74 ± 0.03089
120
100
80
60
40
20

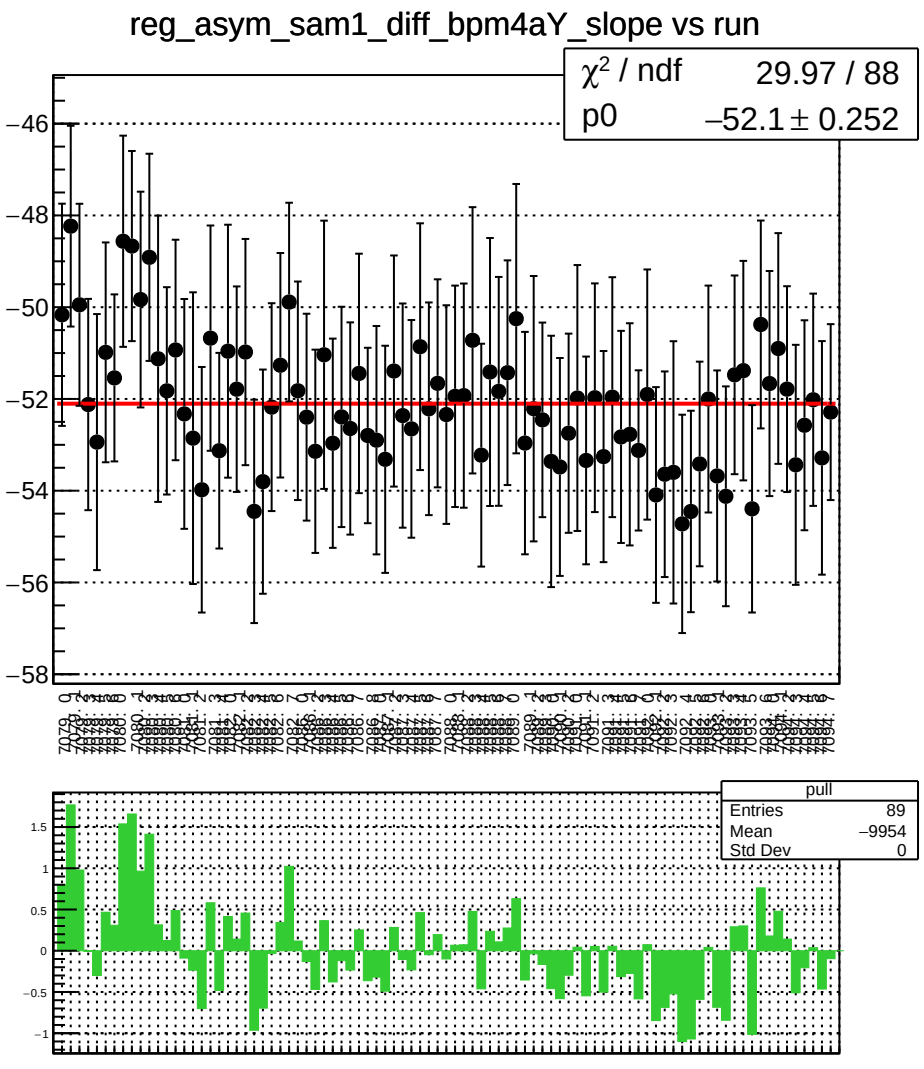

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.36 / 88
p0 2.359e−14 ± 1.487e−14
pull
Entries 89
Mean 51.67
Std Dev 0

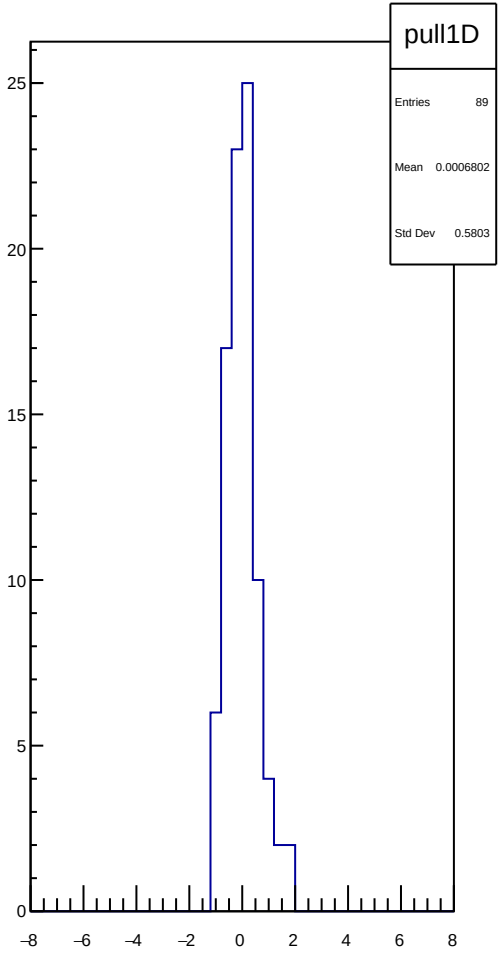

pull1D
Entries 89
Mean −0.08041
Std Dev 0.9875

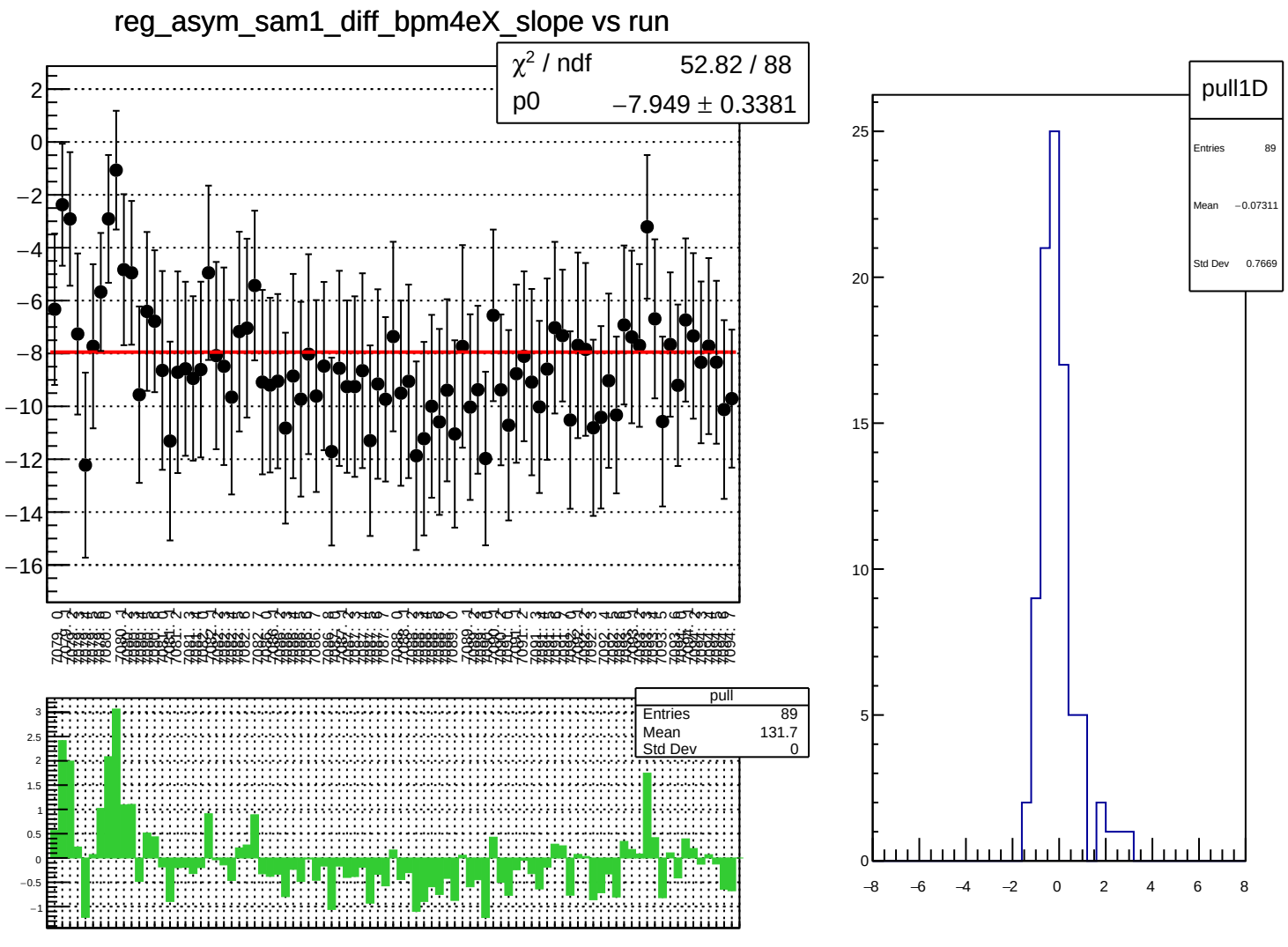

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.779e+05 / 88
p0 1.156e−11 ± 1.052e−14
50
40
30
20
10

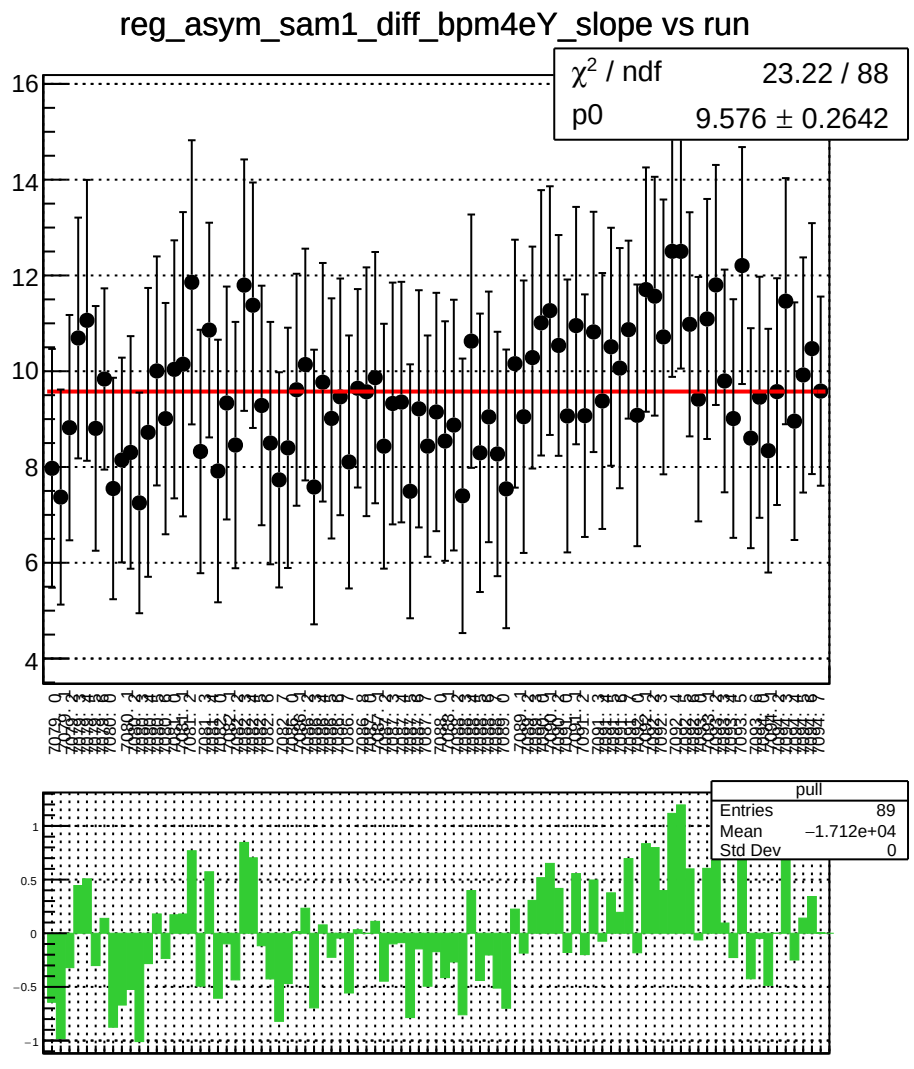

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 56.23 / 88
p0 −6.569 ± 0.351
pull
Entries 89
Mean 137.5
Std Dev 0

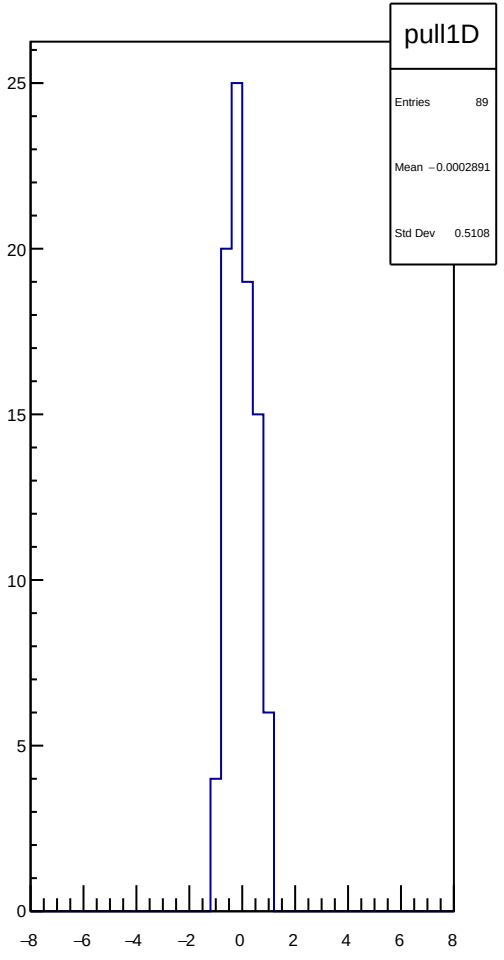

pull1D
Entries 89
Mean 0.07346
Std Dev 0.7914

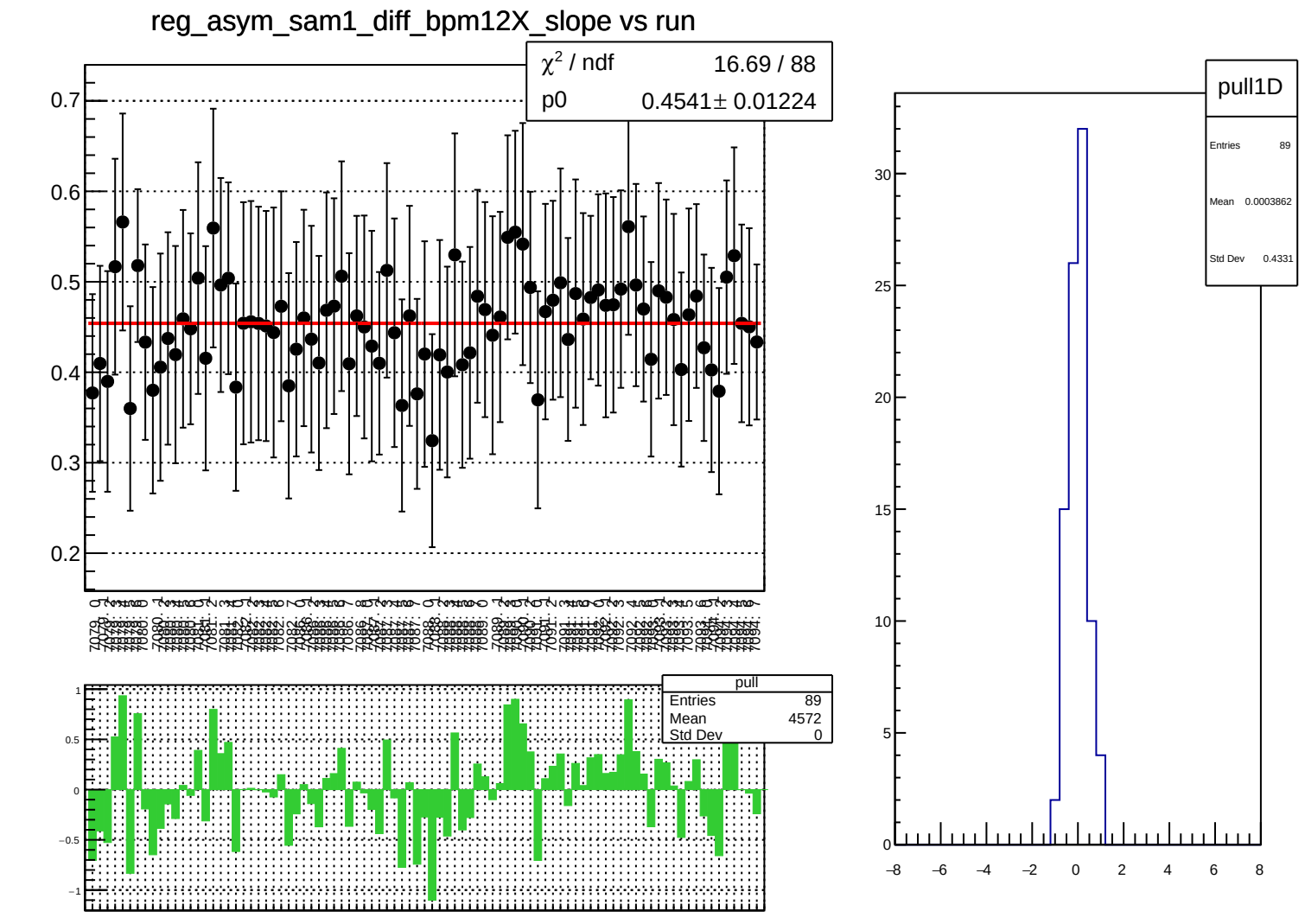

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 29.97 / 88
p0 −52.1 ± 0.252
pull
Entries 89
Mean −9954
Std Dev 0

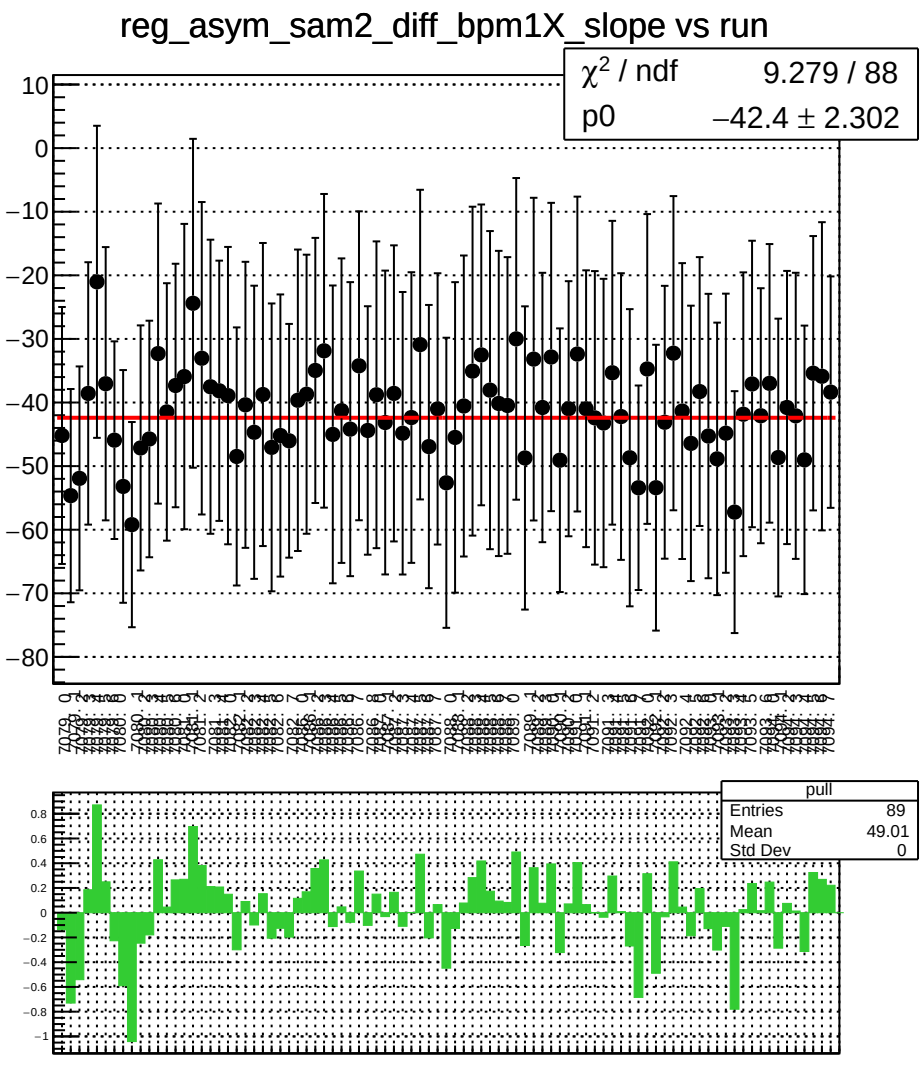

pull1D
Entries 89
Mean 0.0006802
Std Dev 0.5803

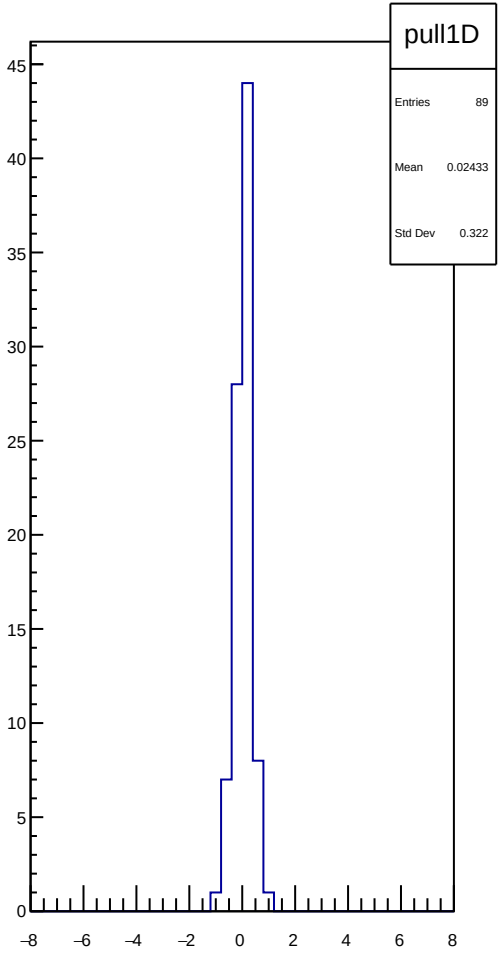

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 52.82 / 88
p0 −7.949 ± 0.3381
pull
Entries 89
Mean 131.7
Std Dev 0
pull1D
Entries 89
Mean −0.07311
Std Dev 0.7669

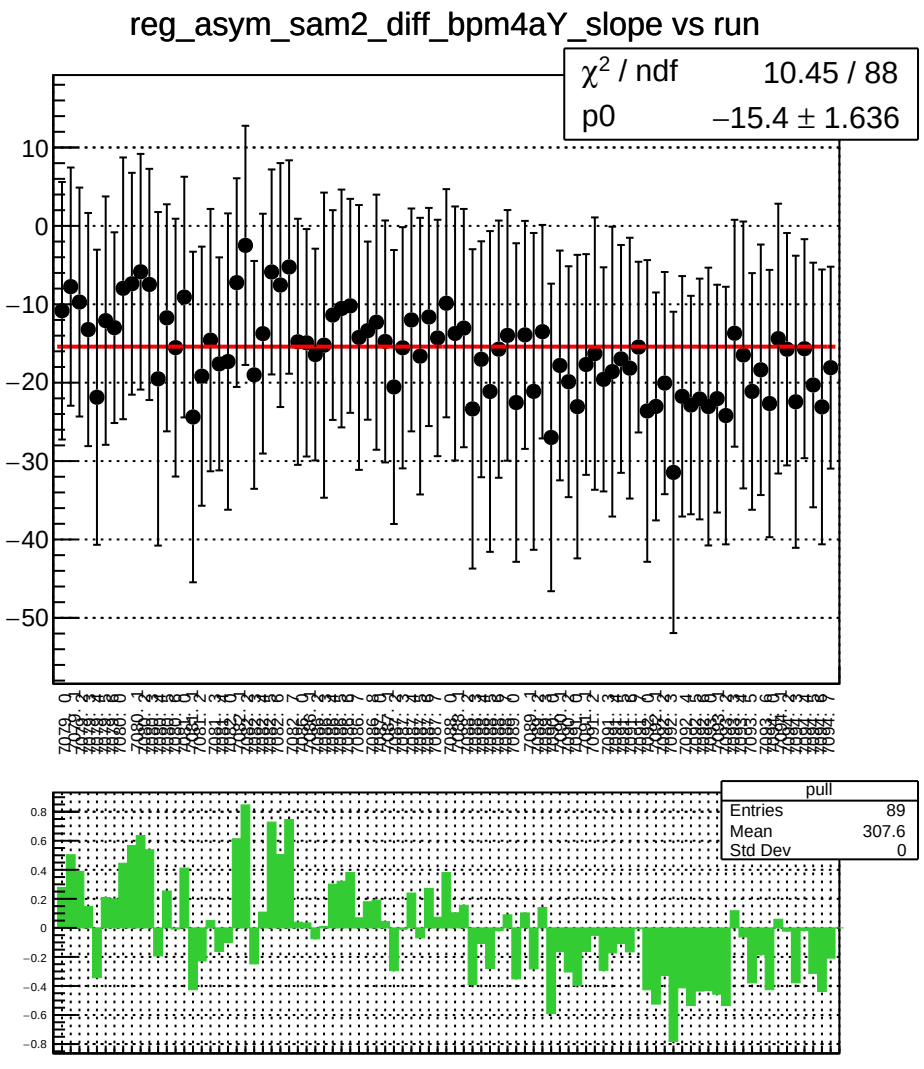

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 23.22 / 88
p0 9.576 ± 0.2642
pull
Entries 89
Mean −1.712e+04
Std Dev 0

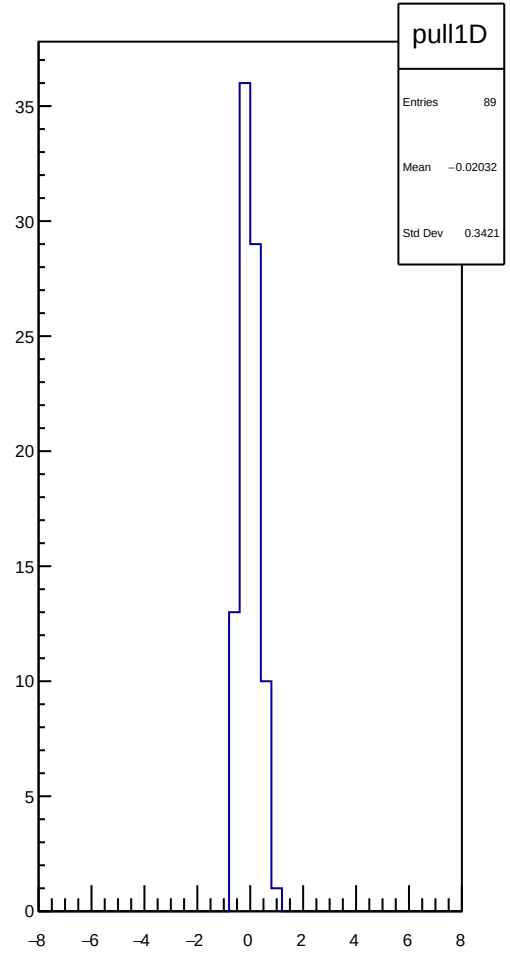

pull1D
Entries 89
Mean −0.0002891
Std Dev 0.5108

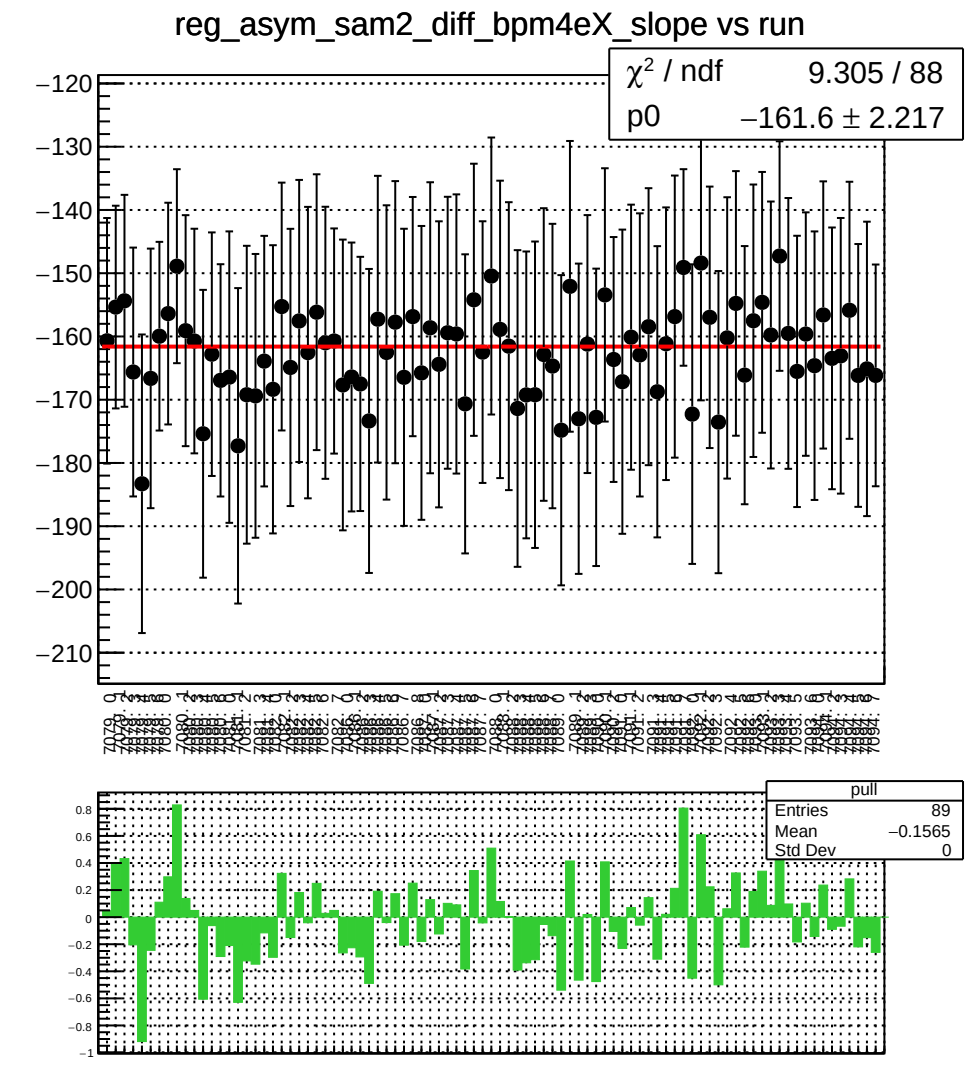

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 16.69 / 88
p0 0.4541± 0.01224
0.7
0.6
0.5
0.4
0.3
0.2
pull
Entries 89
Mean 4572
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.0003862
Std Dev 0.4331
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

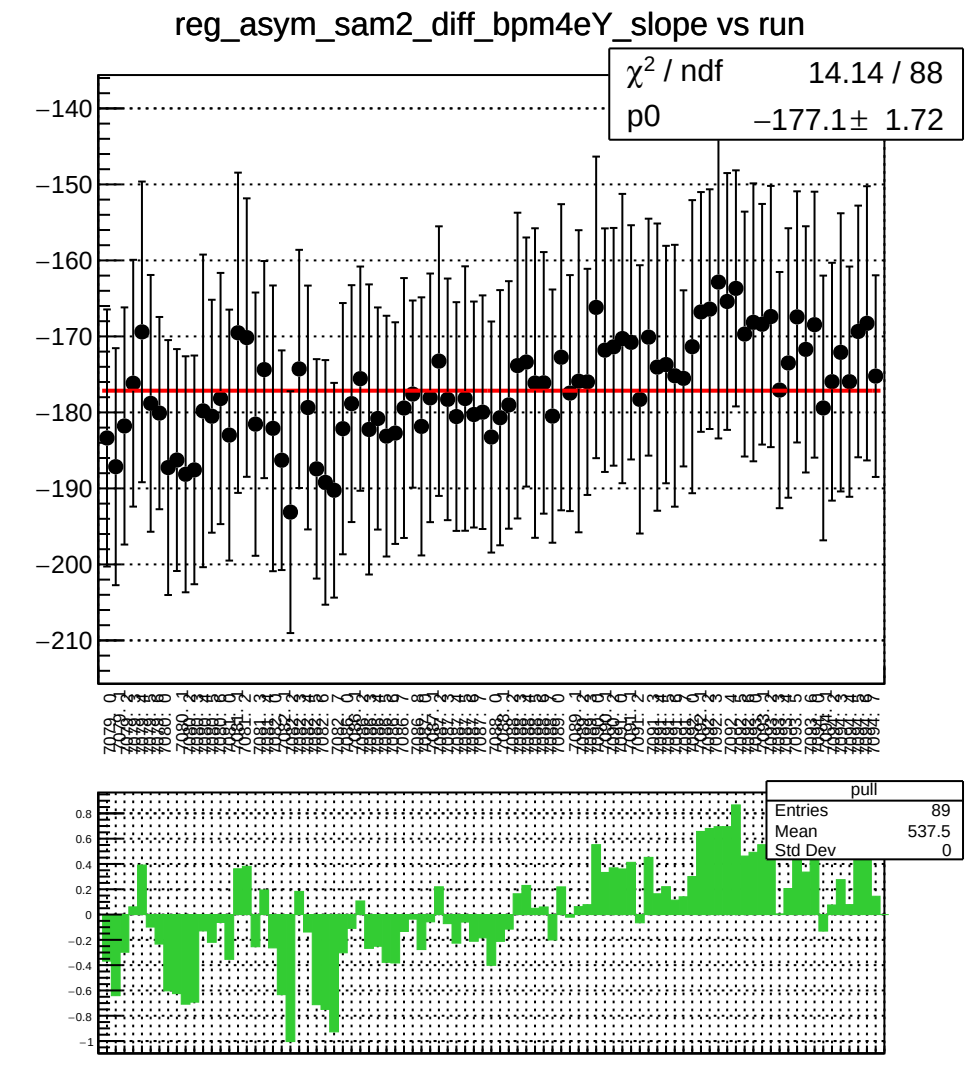

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 9.279 / 88
p0 −42.4 ± 2.302
pull
Entries 89
Mean 49.01
Std Dev 0

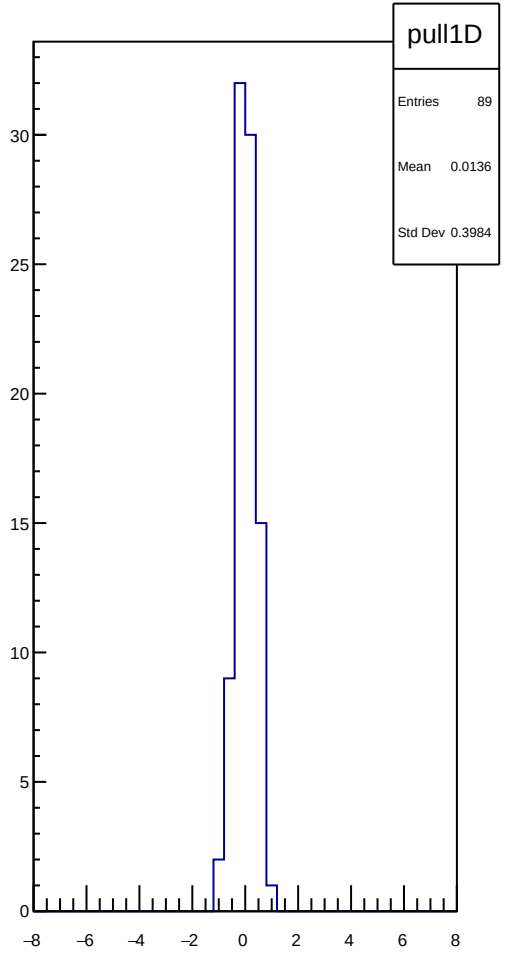

pull1D
Entries 89
Mean 0.02433
Std Dev 0.322

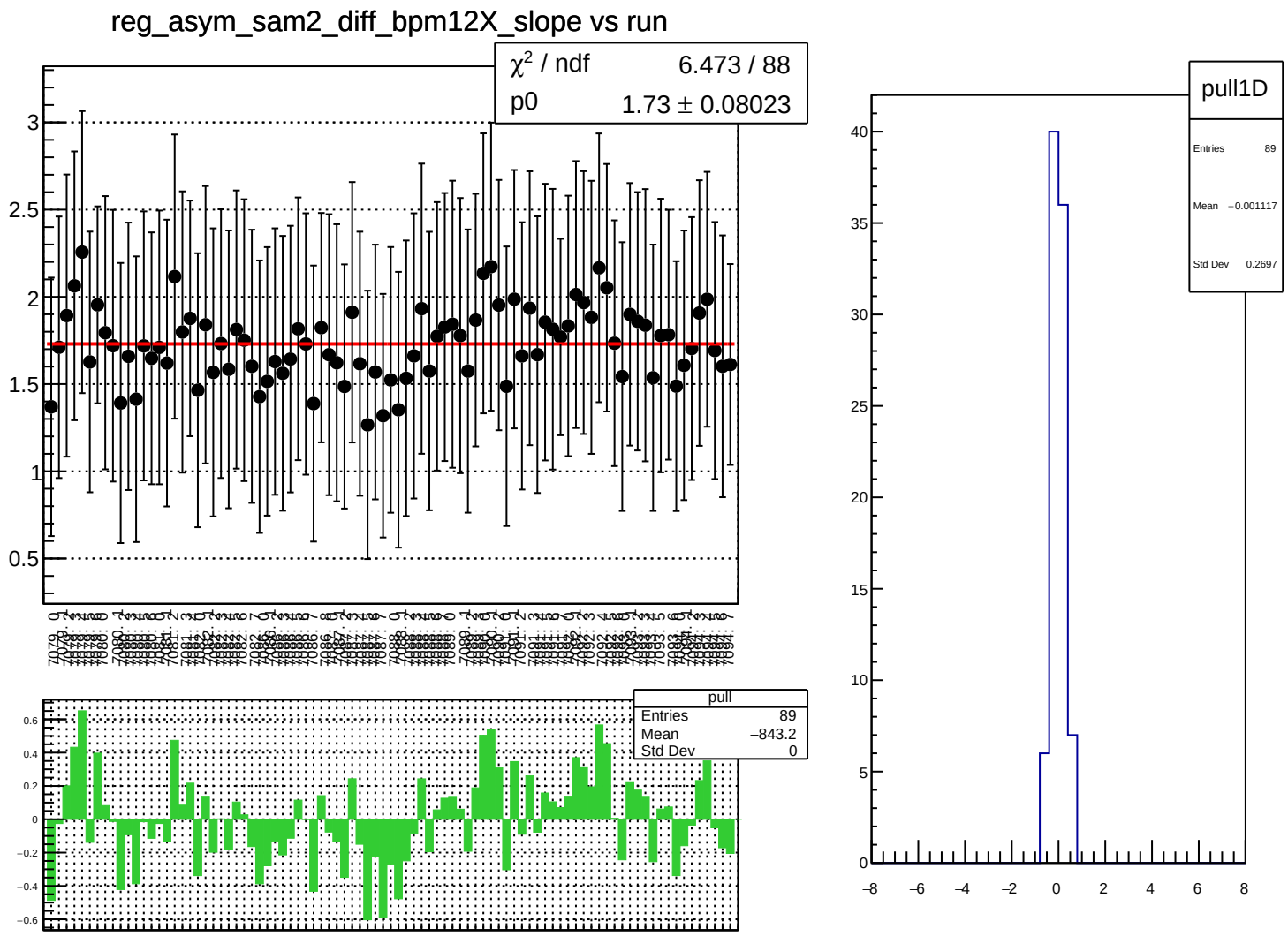

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 10.45 / 88
p0 −15.4 ± 1.636
pull
Entries 89
Mean 307.6
Std Dev 0

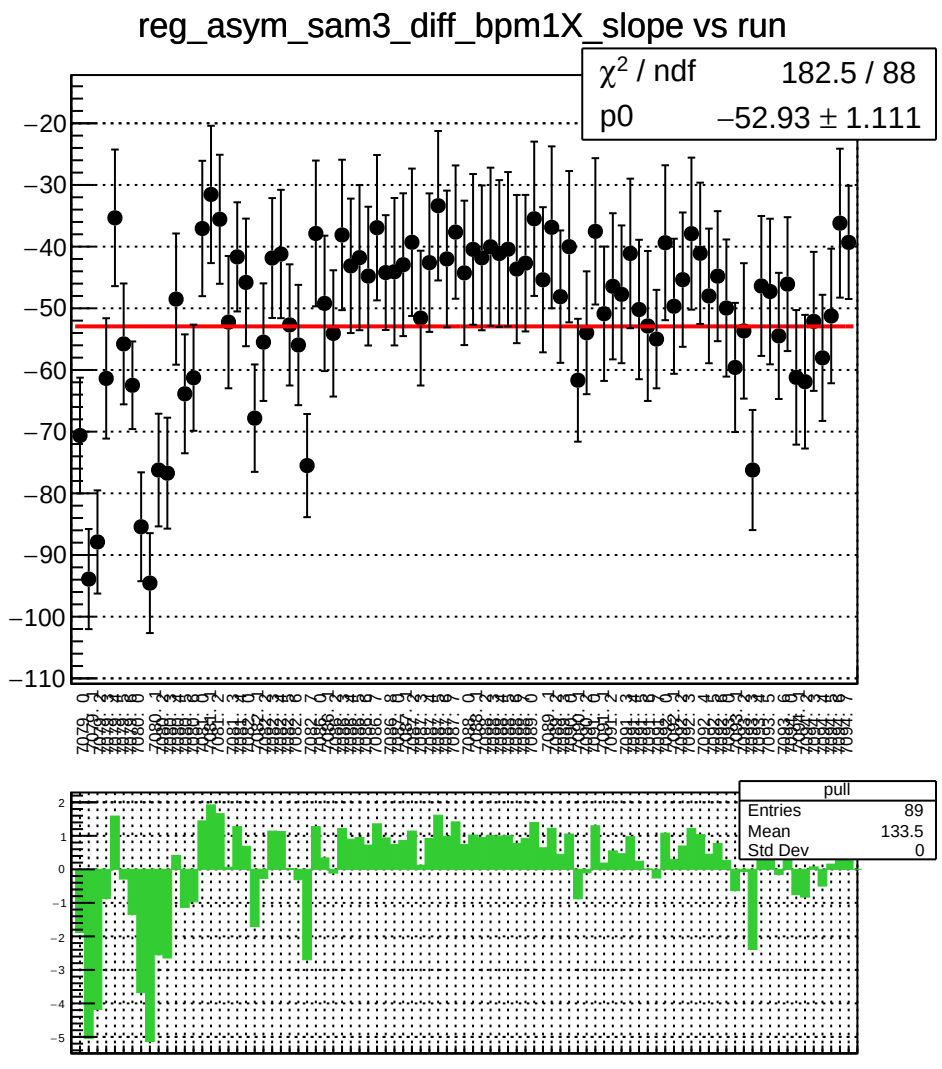

pull1D
Entries 89
Mean −0.02032
Std Dev 0.3421

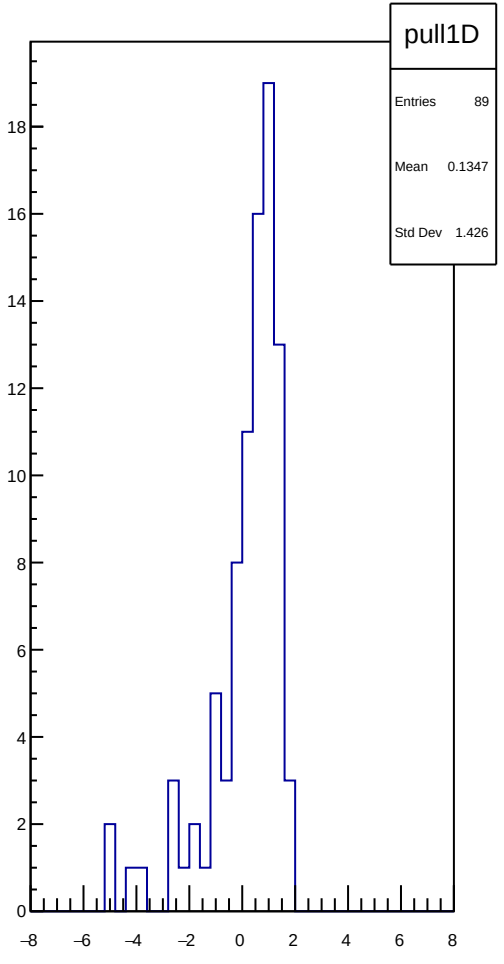

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 9.305 / 88
p0 −161.6 ± 2.217
pull
Entries 89
Mean −0.1565
Std Dev 0
pull1D
Entries 89
Mean −0.02151
Std Dev 0.3226

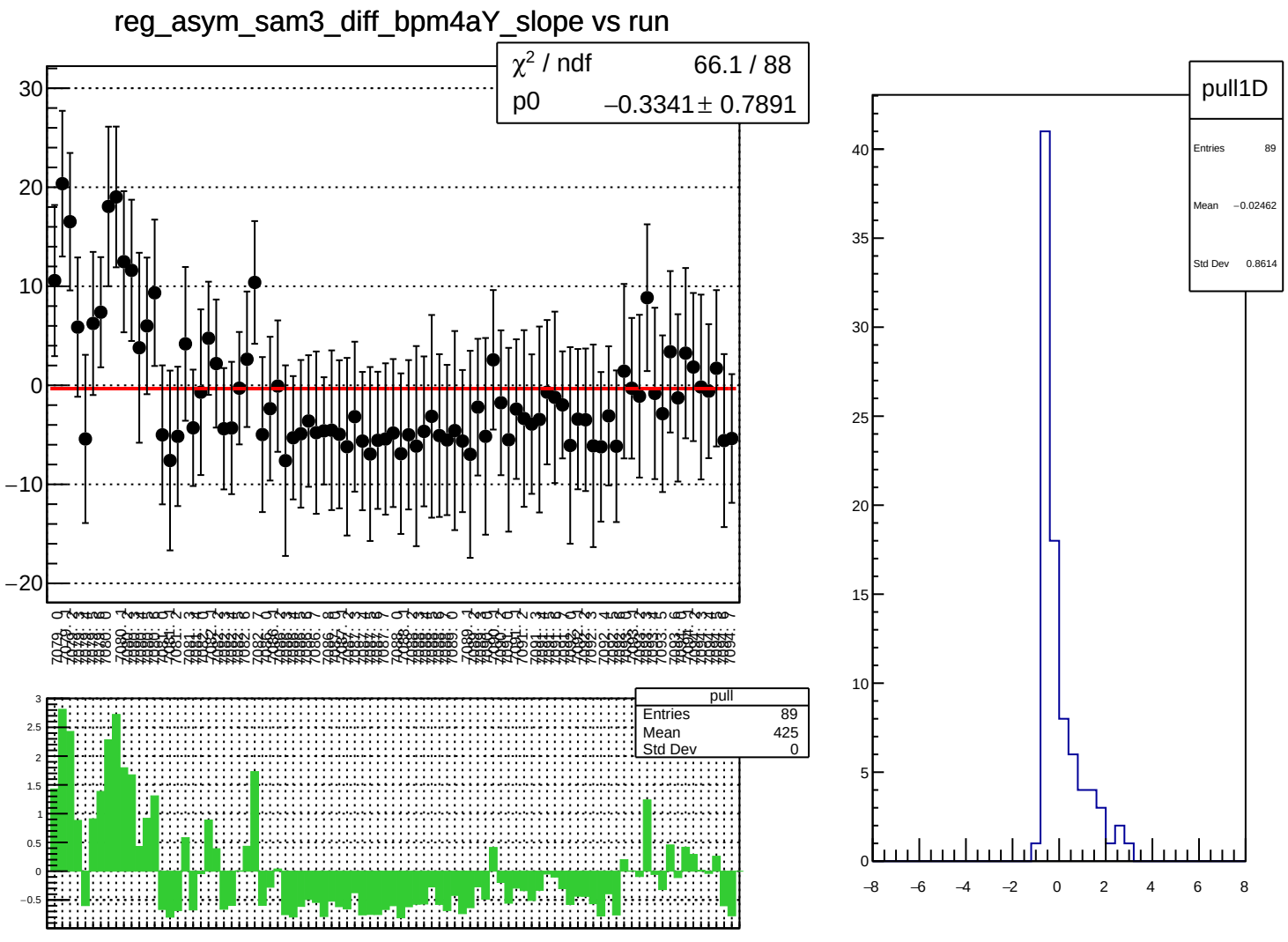

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 14.14 / 88
p0 −177.1± 1.72
pull
Entries 89
Mean 537.5
Std Dev 0

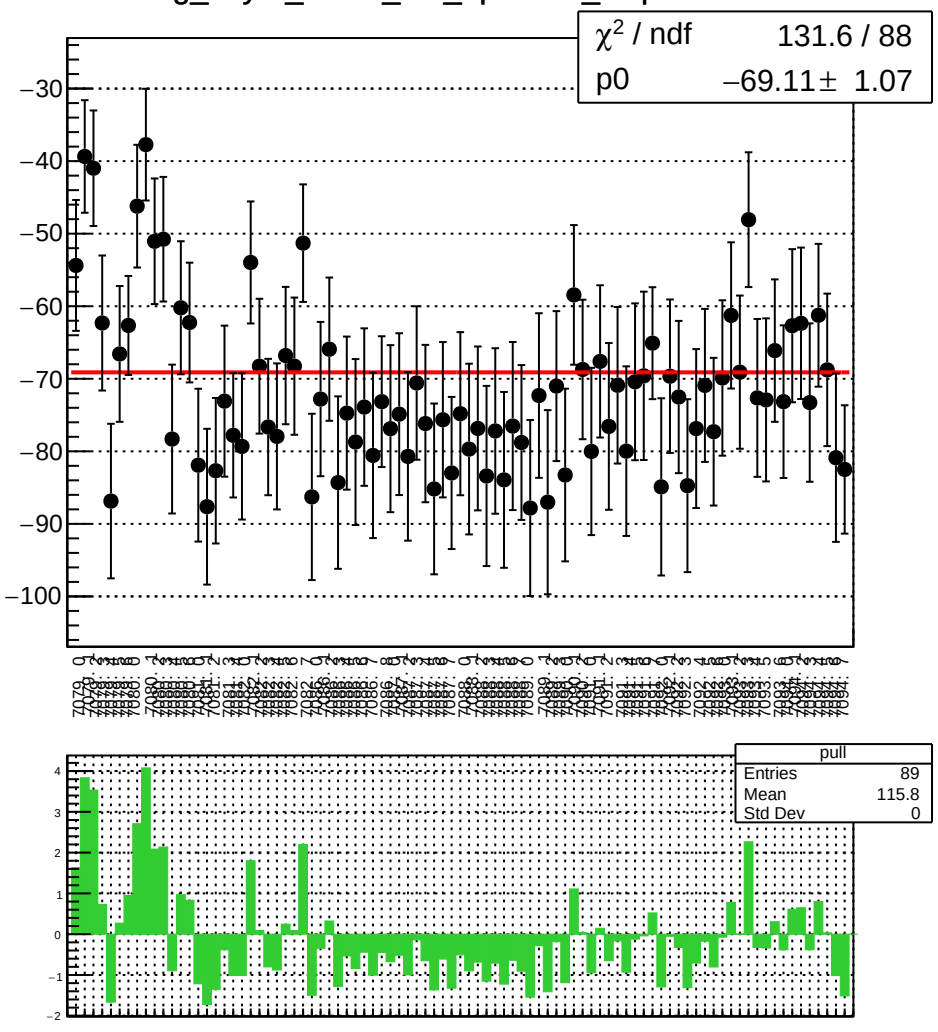

pull1D
Entries 89
Mean 0.0136
Std Dev 0.3984

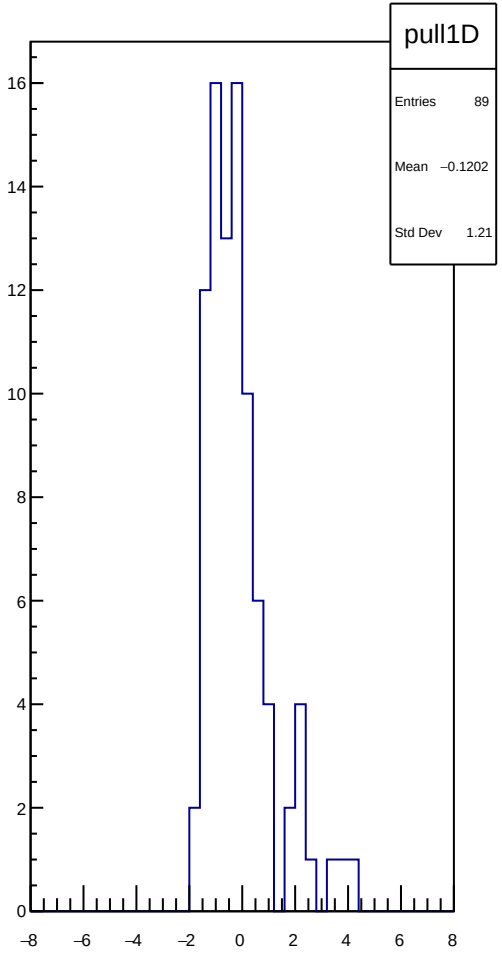

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 6.473 / 88
p0 1.73 ± 0.08023
pull
Entries 89
Mean −843.2
Std Dev 0
pull1D
Entries 89
Mean −0.001117
Std Dev 0.2697

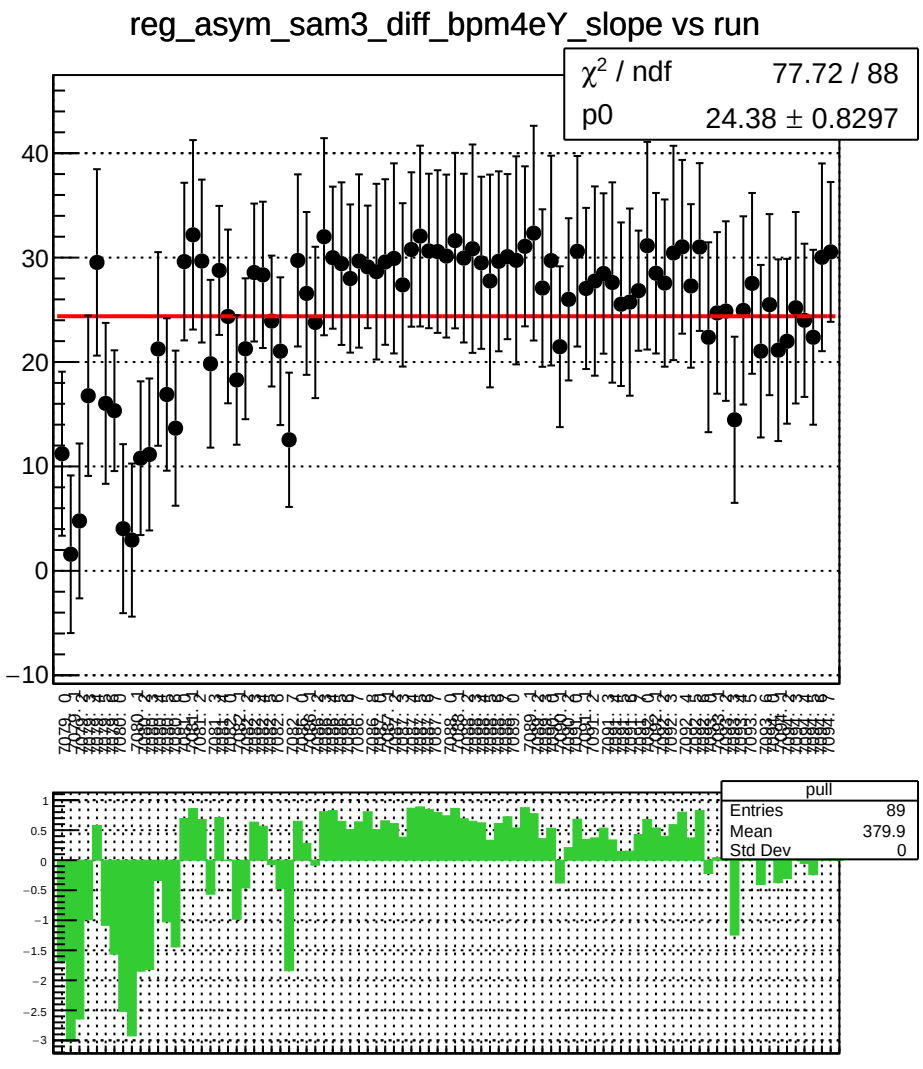

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 182.5 / 88
p0 −52.93 ± 1.111
pull
Entries 89
Mean 133.5
Std Dev 0

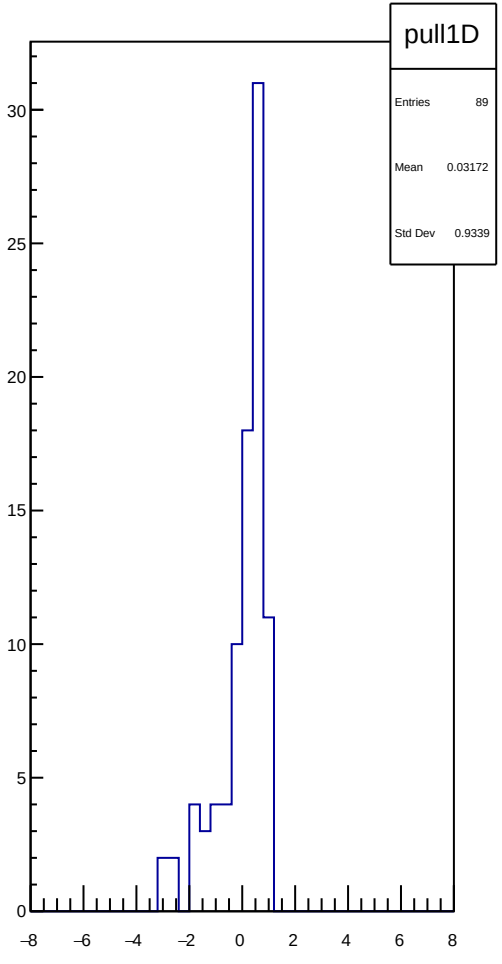

pull1D
Entries 89
Mean 0.1347
Std Dev 1.426

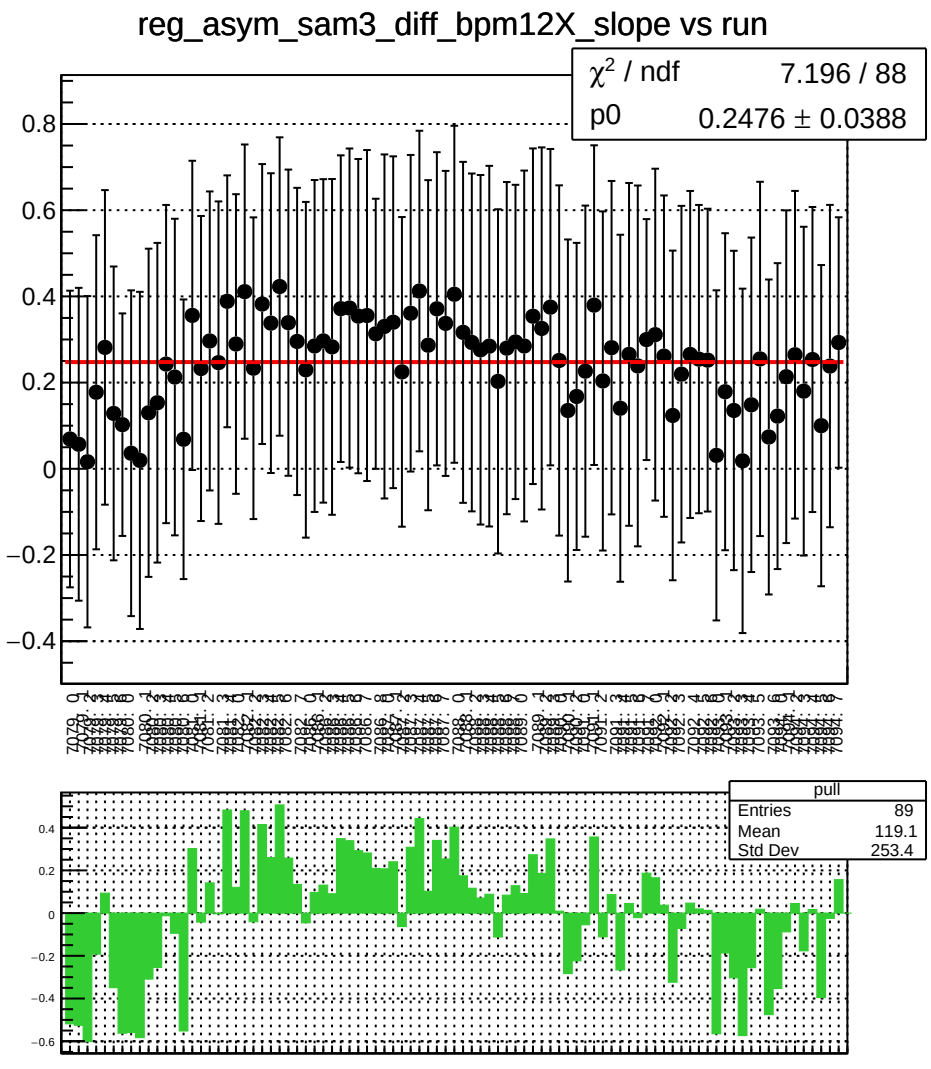

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 66.1 / 88
p0 −0.3341 ± 0.7891
pull
Entries 89
Mean 425
Std Dev 0
pull1D
Entries 89
Mean −0.02462
Std Dev 0.8614

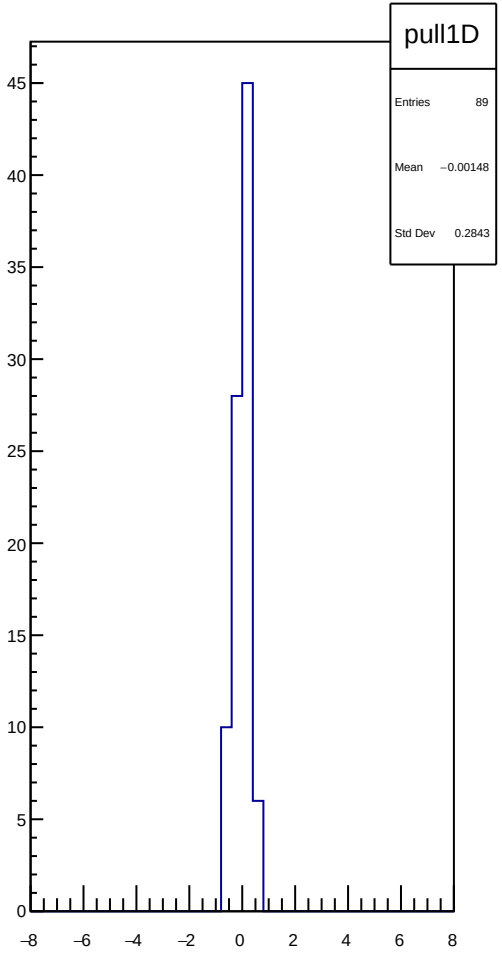

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 131.6 / 88
p0 −69.11 ± 1.07
pull
Entries 89
Mean 115.8
Std Dev 0

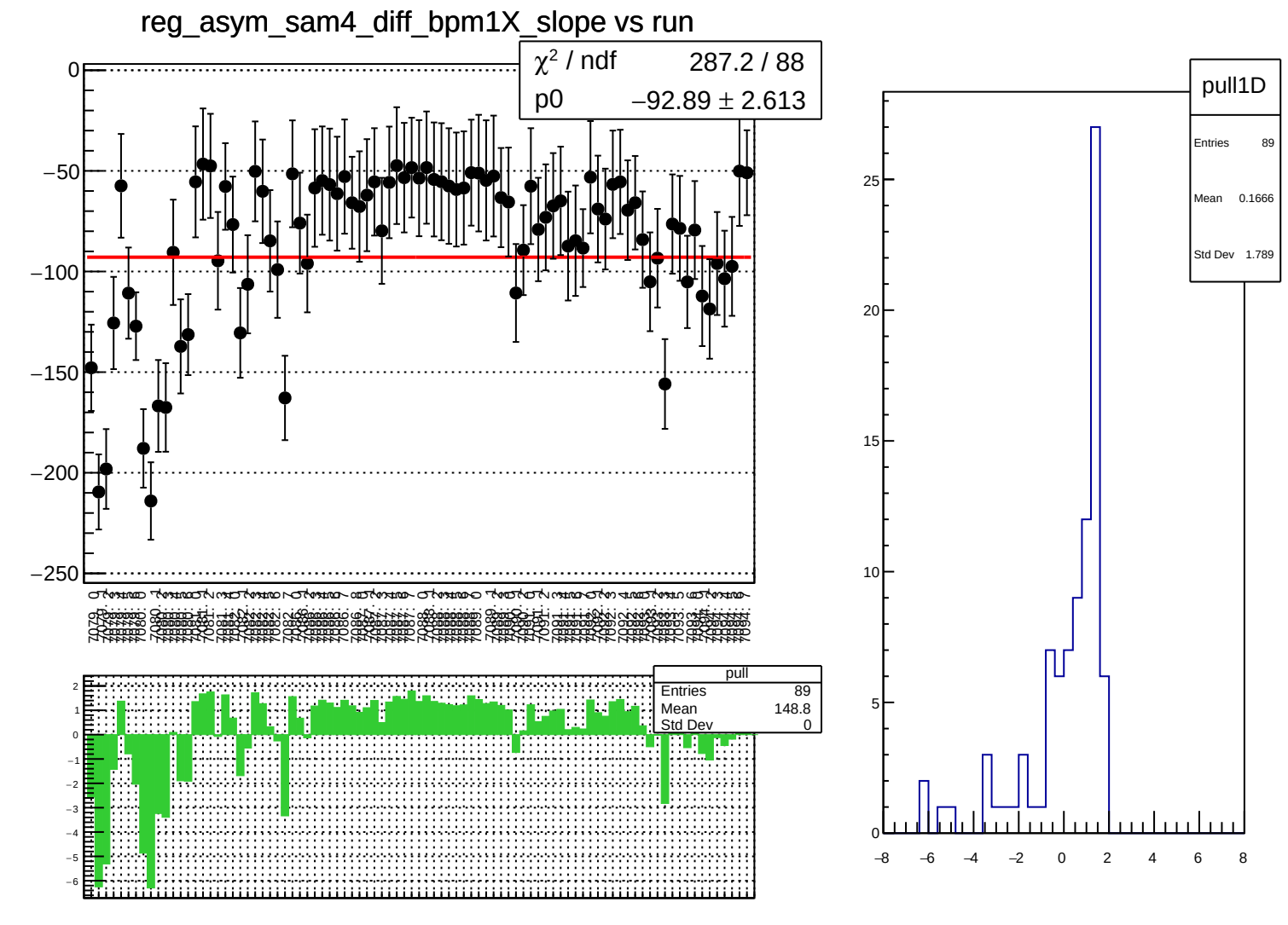

pull1D
Entries 89
Mean −0.1202
Std Dev 1.21

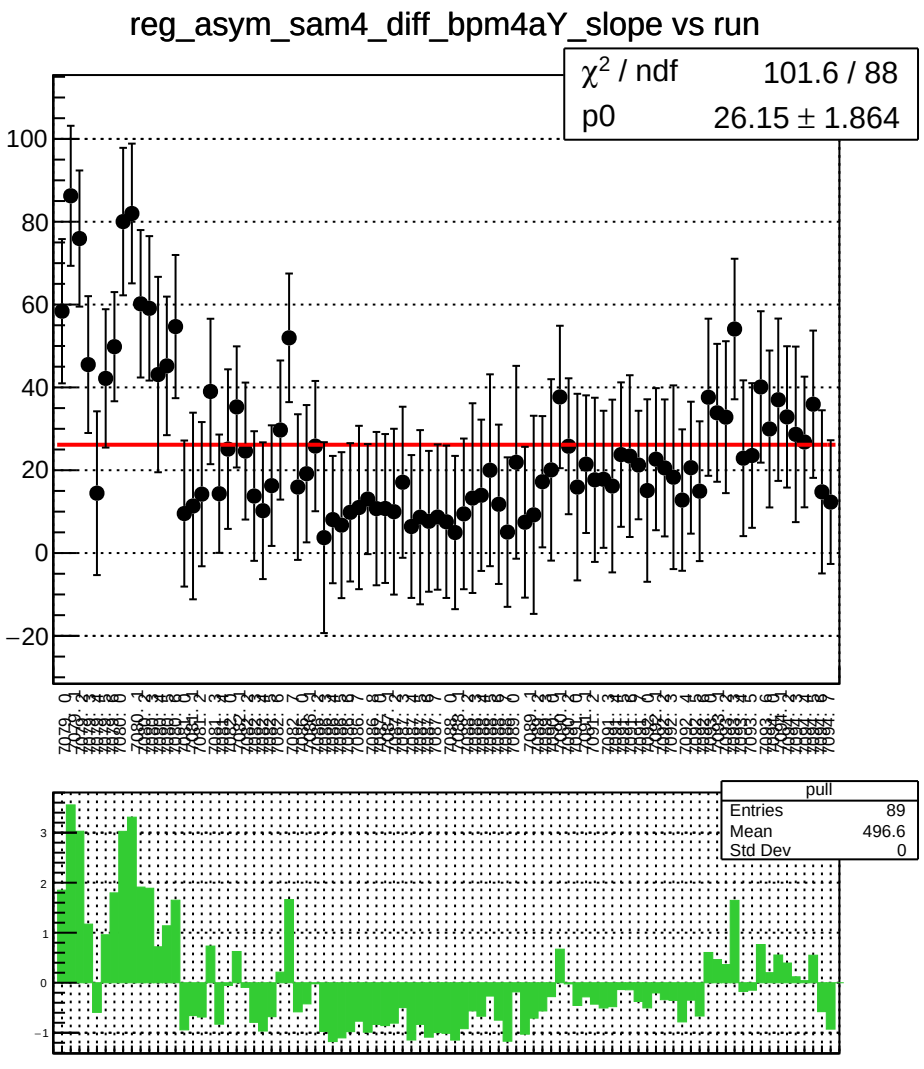

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 77.72 / 88
p0 24.38 ± 0.8297
pull
Entries 89
Mean 379.9
Std Dev 0

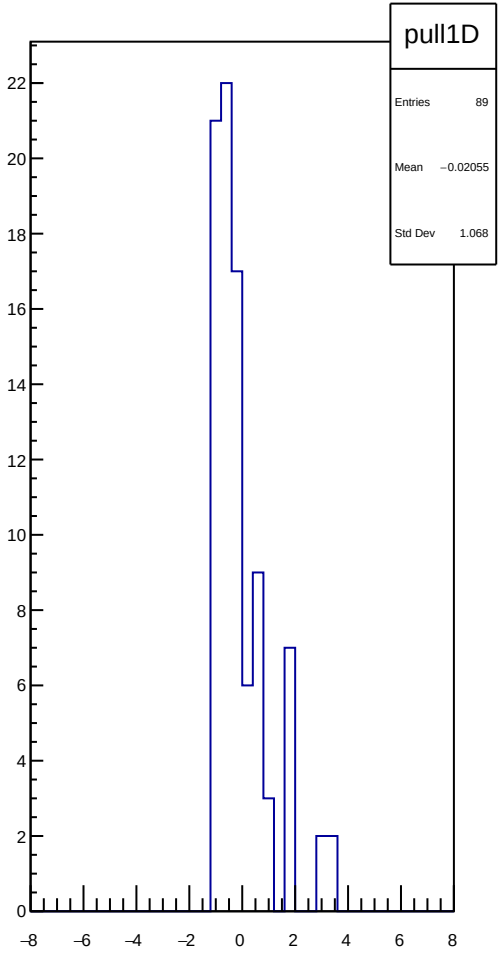

pull1D
Entries 89
Mean 0.03172
Std Dev 0.9339

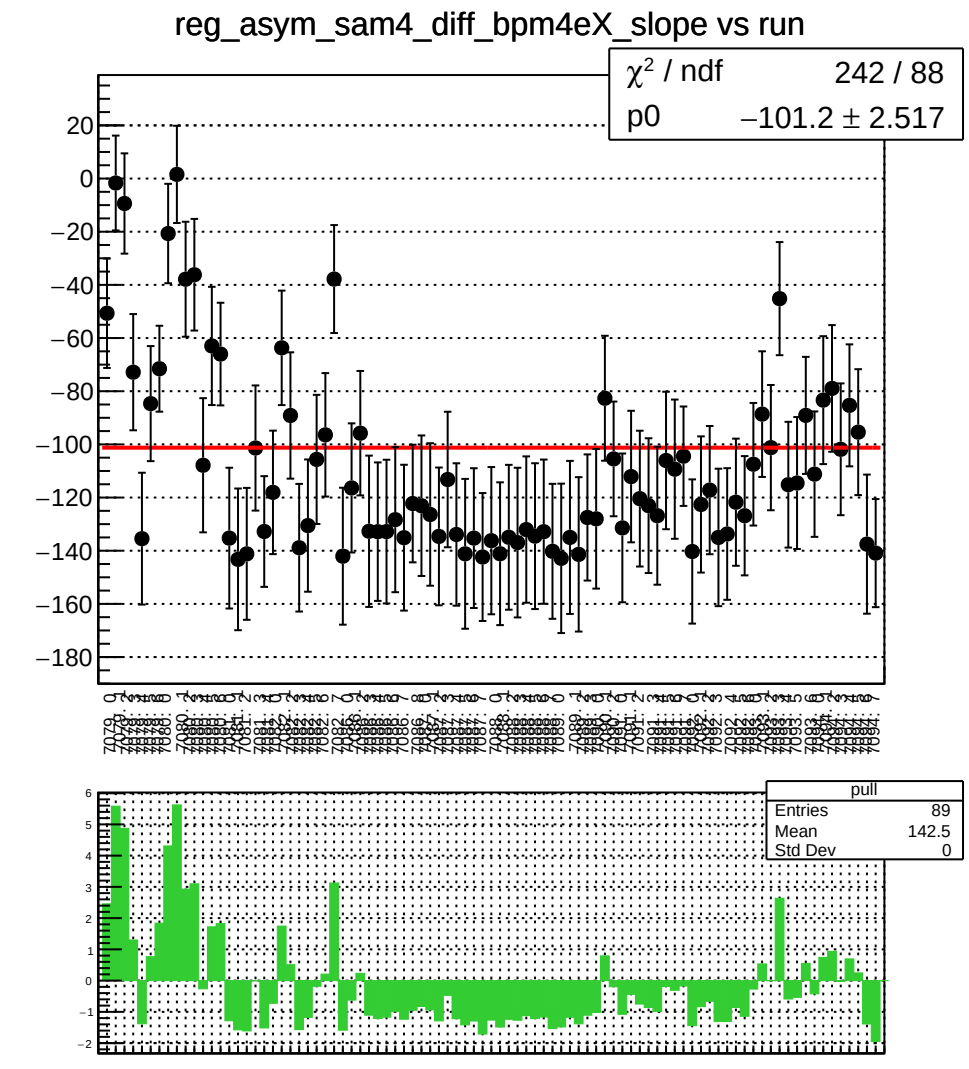

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 7.196 / 88
p0 0.2476 ± 0.0388
pull
Entries 89
Mean 119.1
Std Dev 253.4

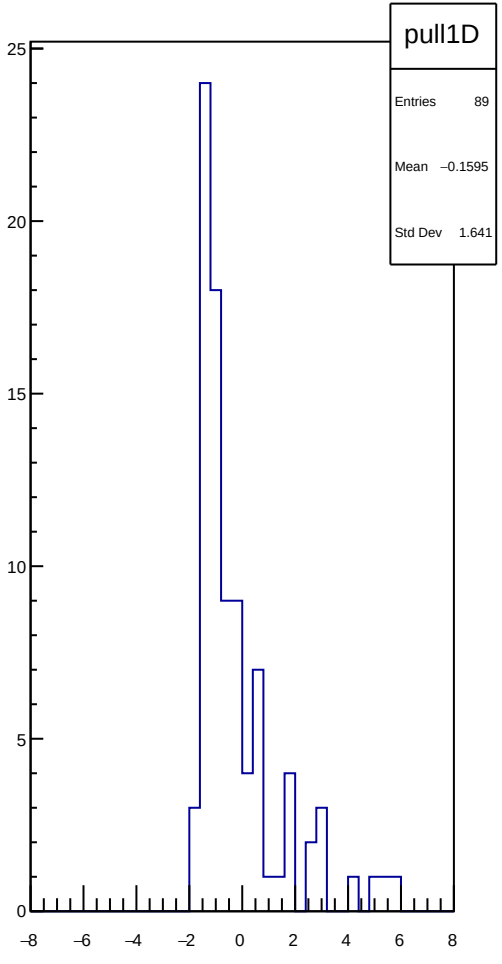

pull1D
Entries 89
Mean −0.00148
Std Dev 0.2843

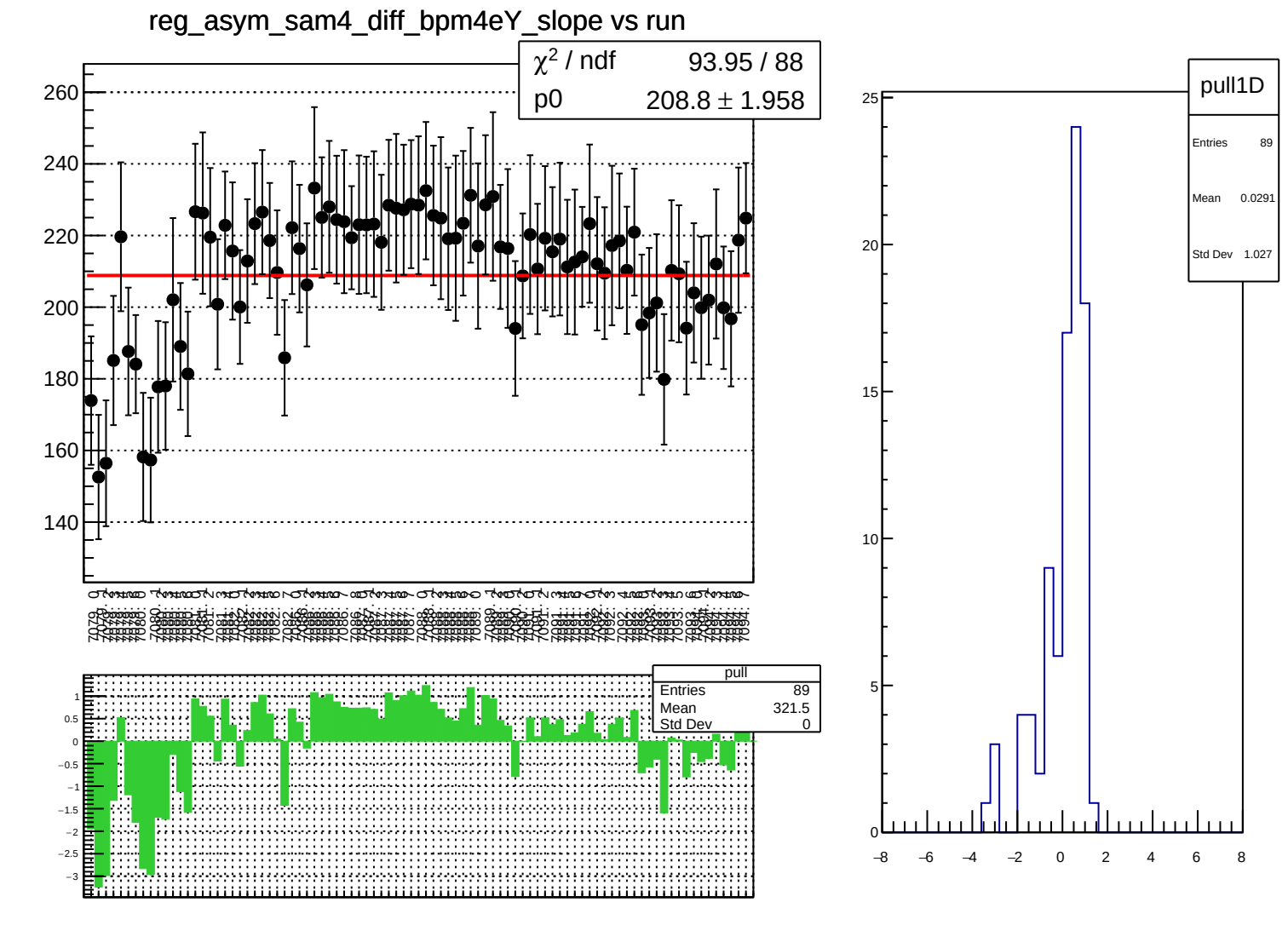

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 287.2 / 88
p0 −92.89 ± 2.613
pull
Entries 89
Mean 148.8
Std Dev 0
pull1D
Entries 89
Mean 0.1666
Std Dev 1.789

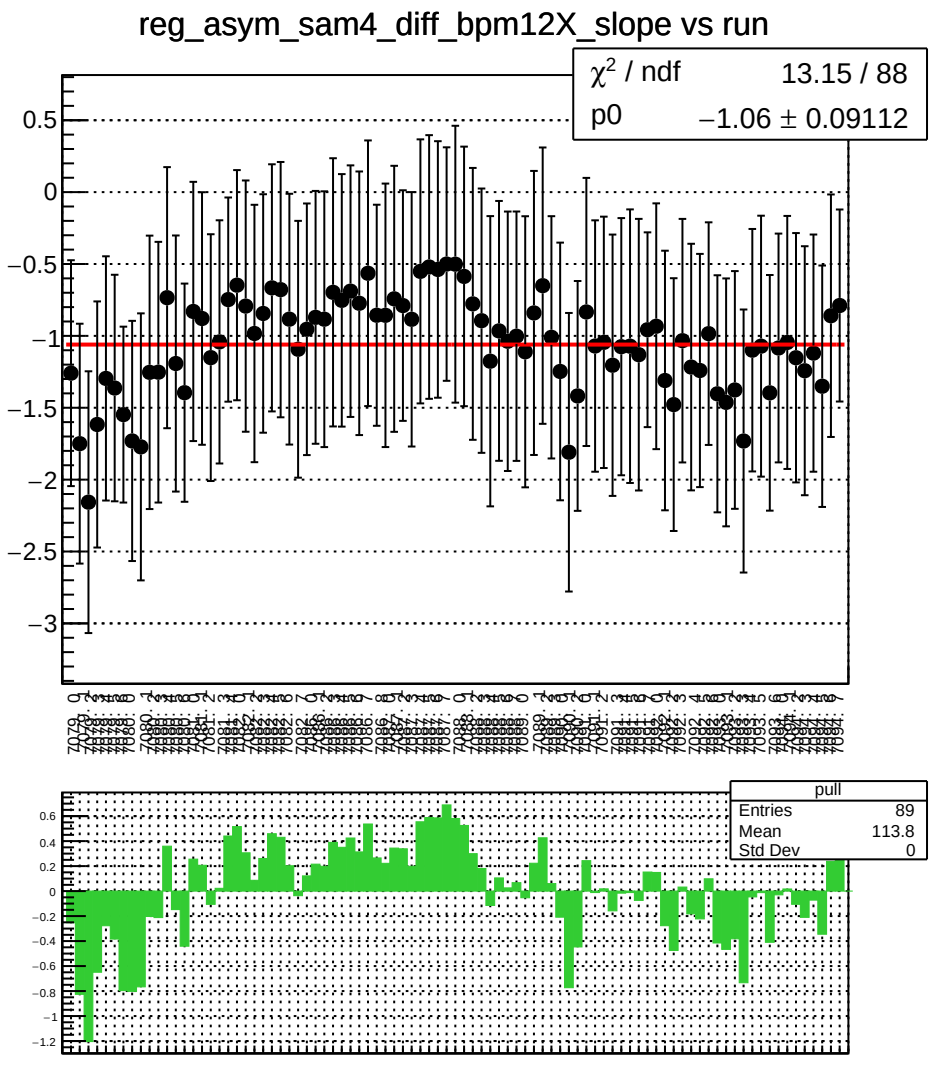

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 101.6 / 88
p0 26.15 ± 1.864
pull
Entries 89
Mean 496.6
Std Dev 0

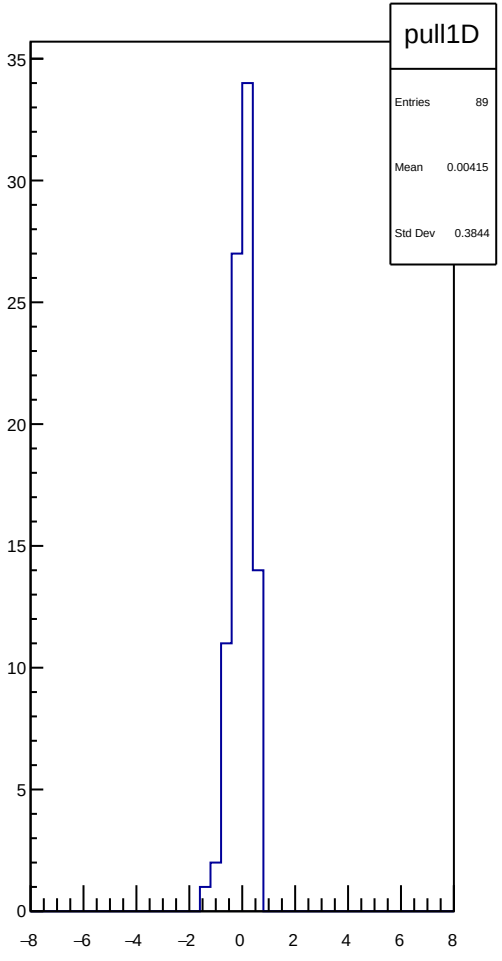

pull1D
Entries 89
Mean −0.02055
Std Dev 1.068

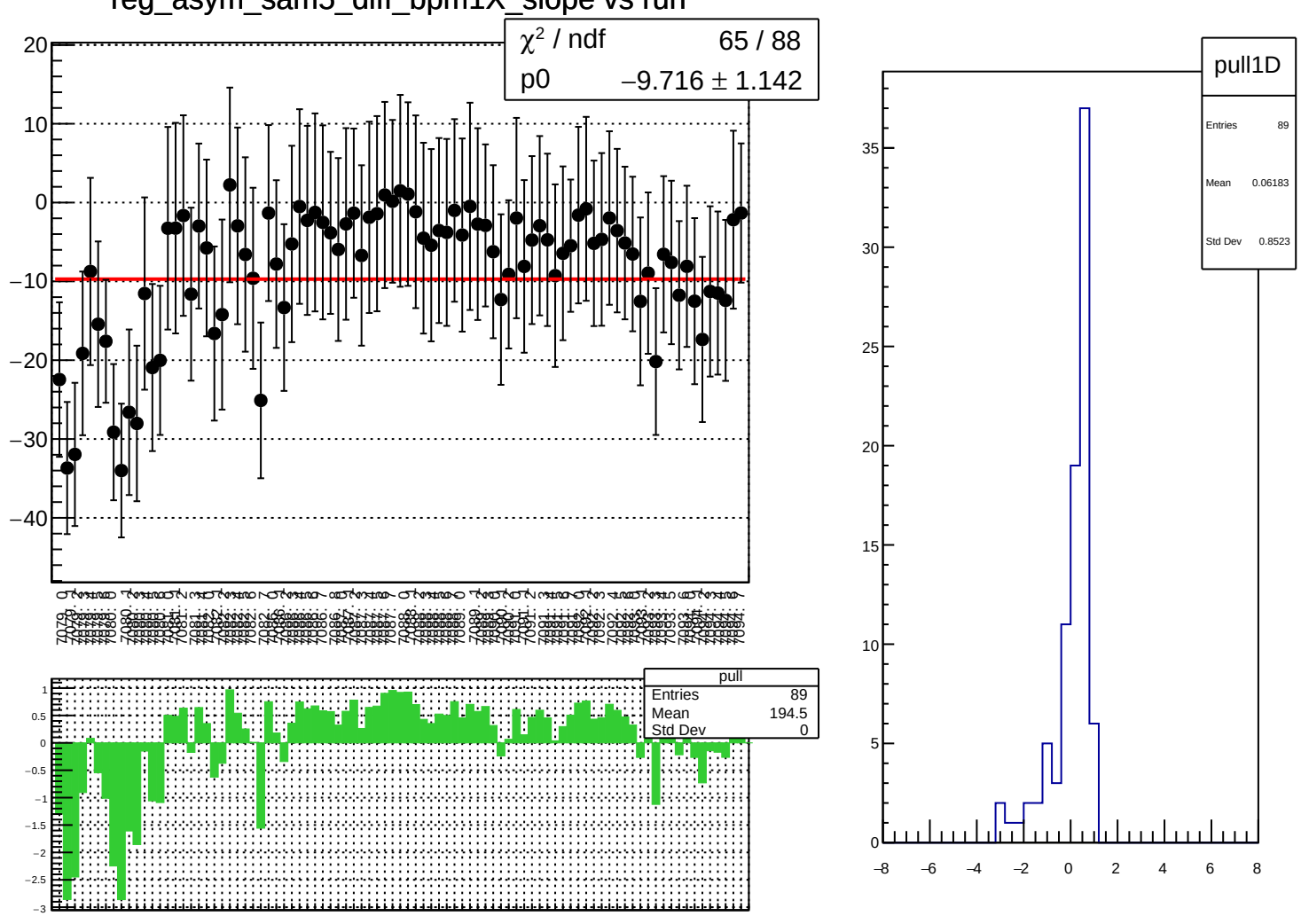

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 242 / 88
p0 −101.2 ± 2.517
pull
Entries 89
Mean 142.5
Std Dev 0

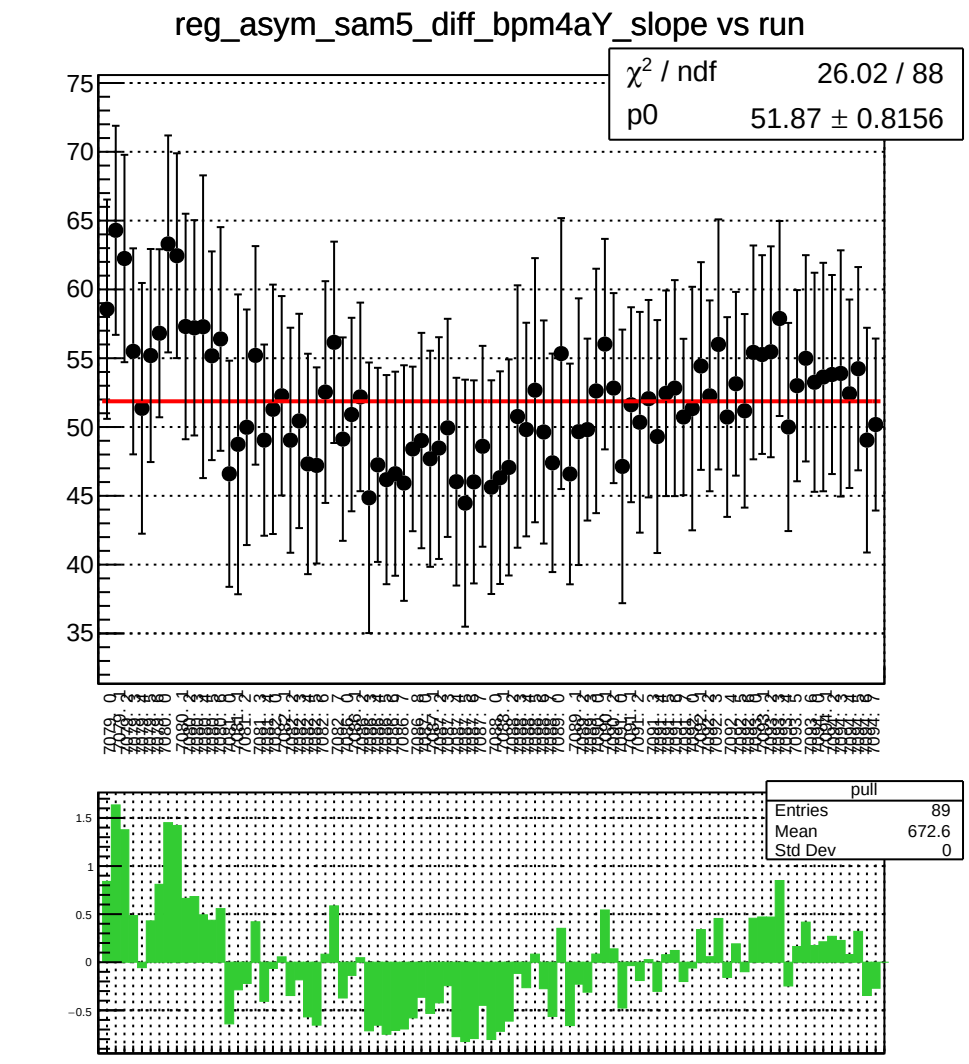

pull1D
Entries 89
Mean −0.1595
Std Dev 1.641

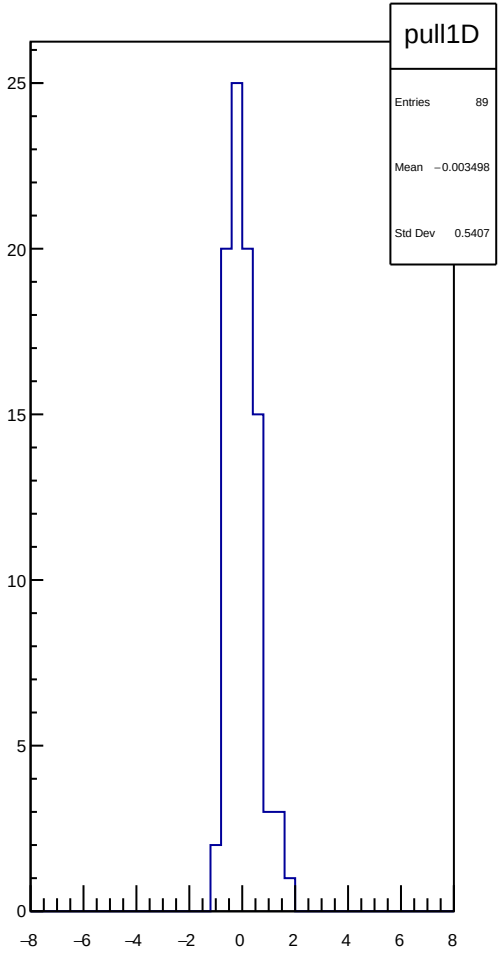

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 93.95 / 88
p0 208.8 ± 1.958
260
240
220
200
180
160
140
pull
Entries 89
Mean 321.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 89
Mean 0.0291
Std Dev 1.027
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

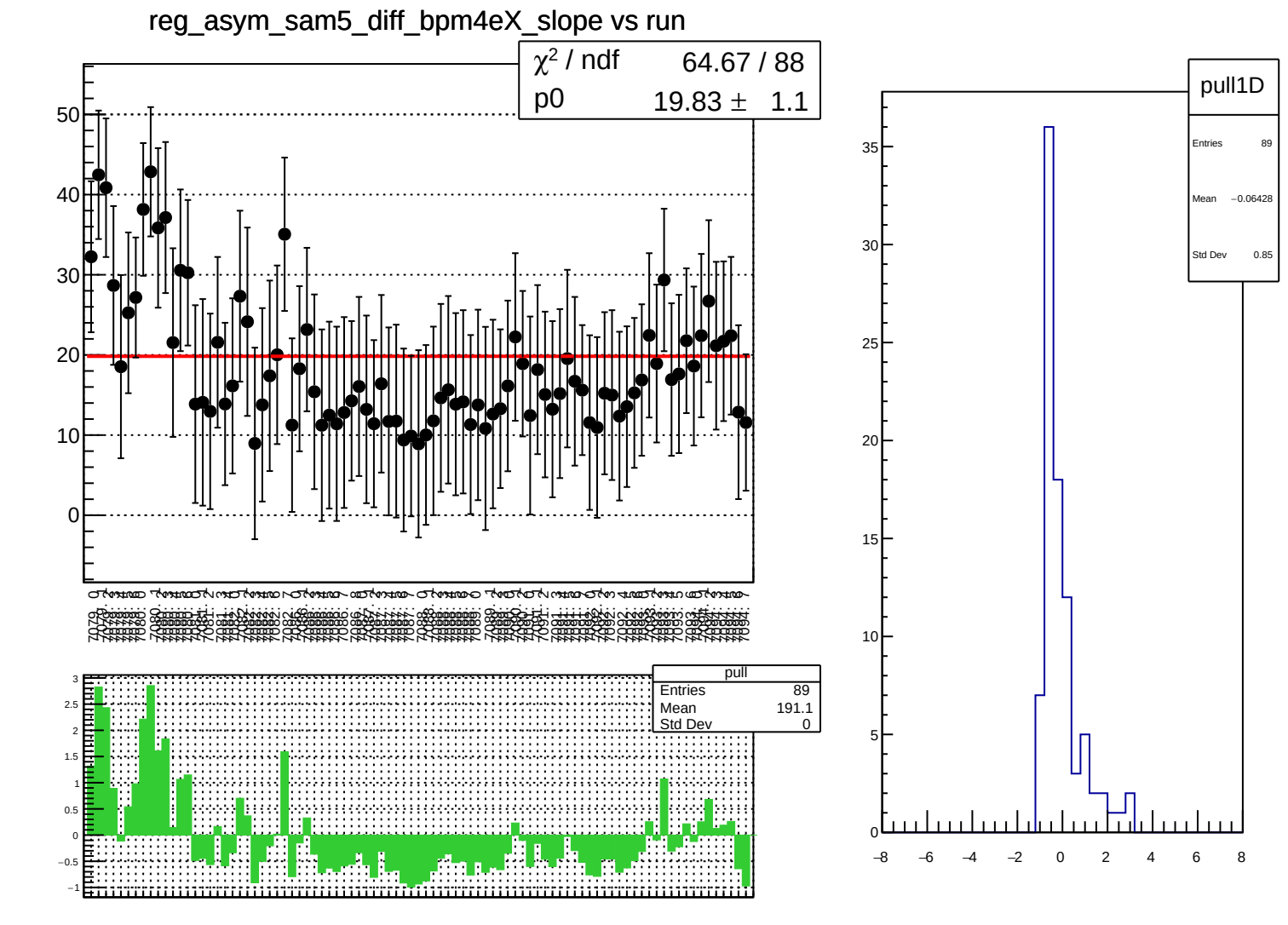

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 13.15 / 88
p0 −1.06 ± 0.09112
pull
Entries 89
Mean 113.8
Std Dev 0

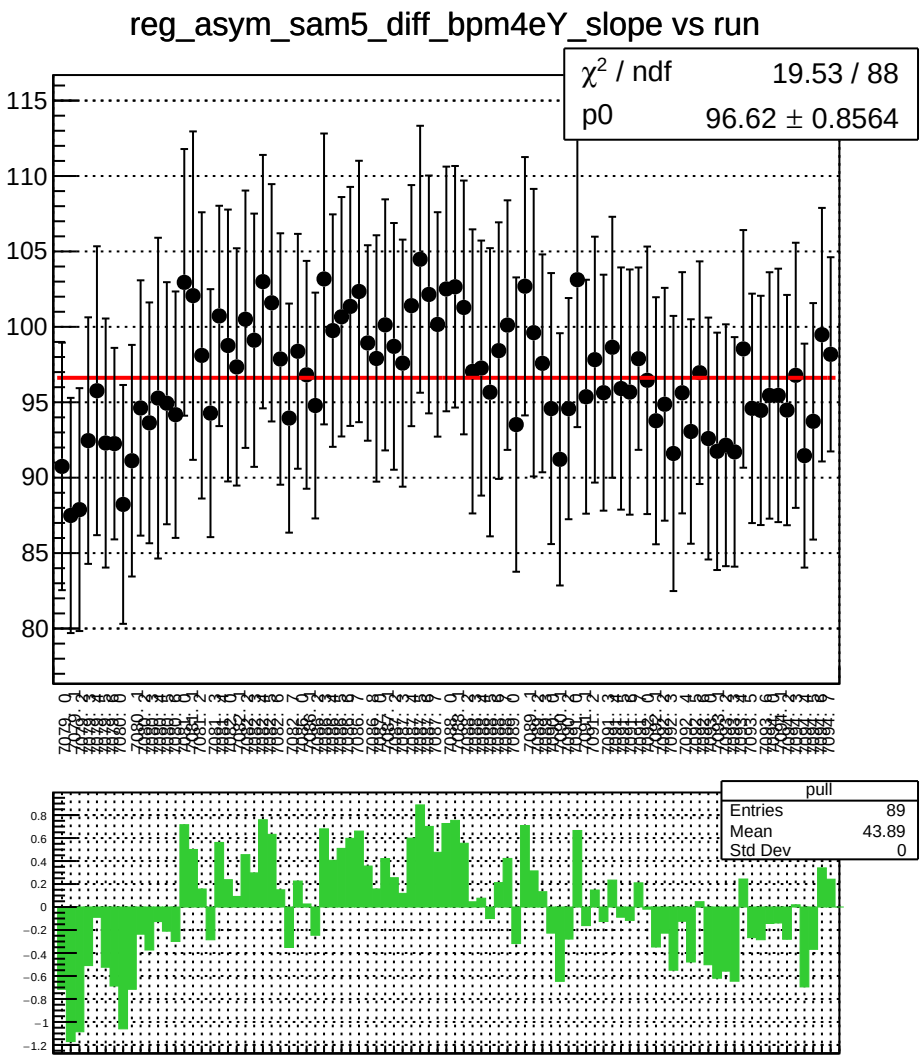

pull1D
Entries 89
Mean 0.00415
Std Dev 0.3844

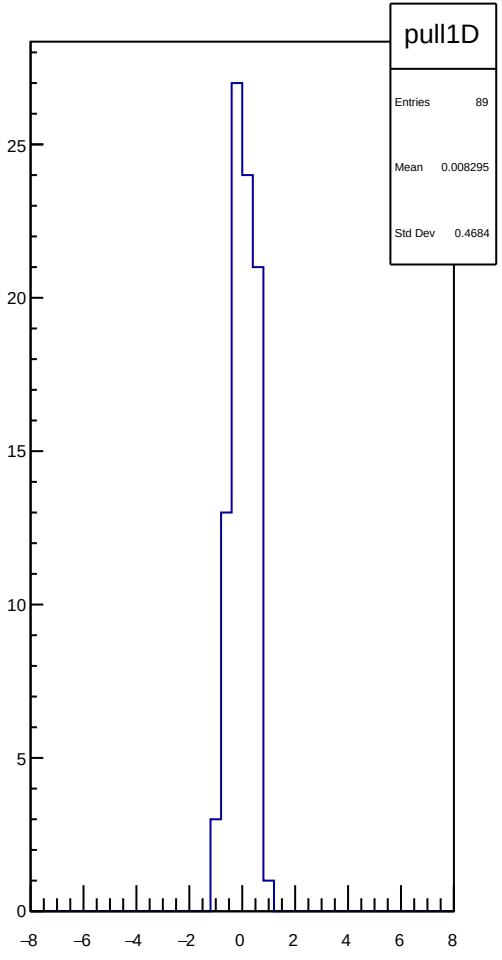

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 65 / 88
p0 −9.716 ± 1.142
pull
Entries 89
Mean 194.5
Std Dev 0
pull1D
Entries 89
Mean 0.06183
Std Dev 0.8523

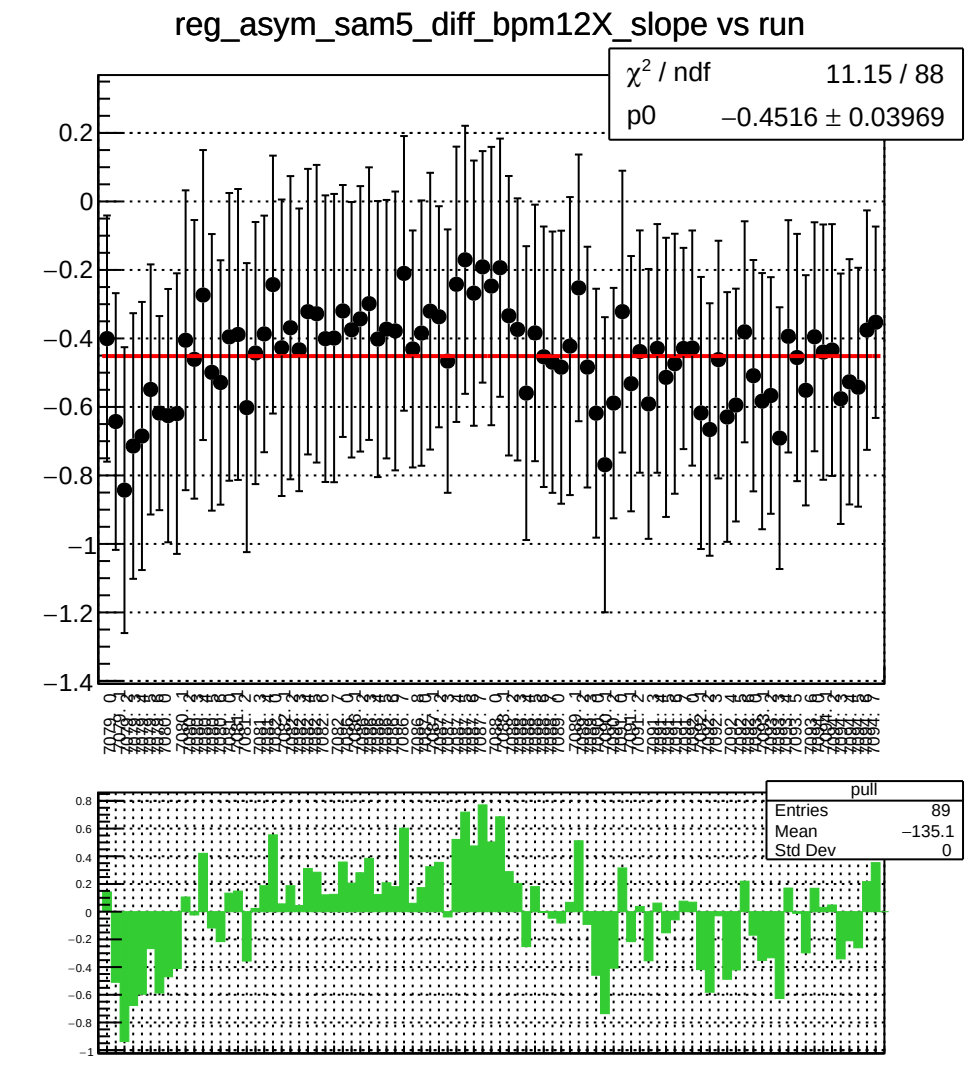

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 26.02 / 88
p0 51.87 ± 0.8156
pull
Entries 89
Mean 672.6
Std Dev 0

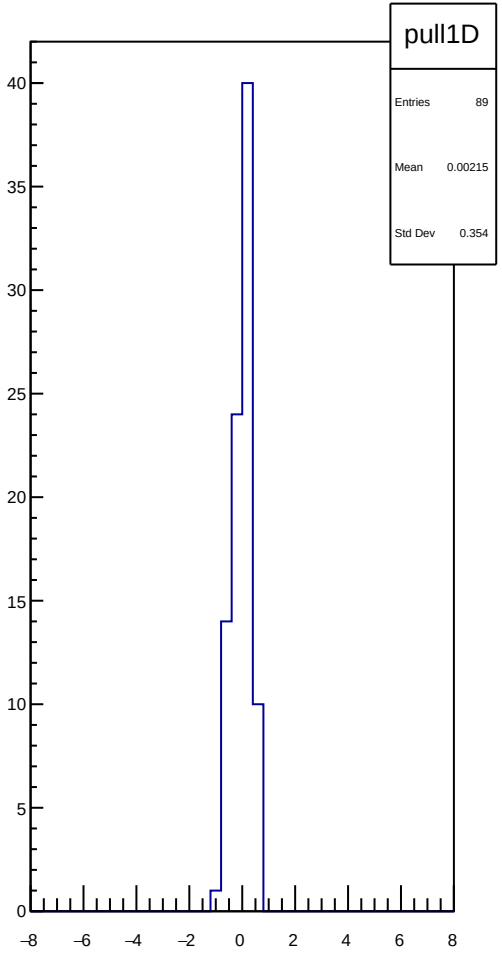

pull1D
Entries 89
Mean −0.003498
Std Dev 0.5407

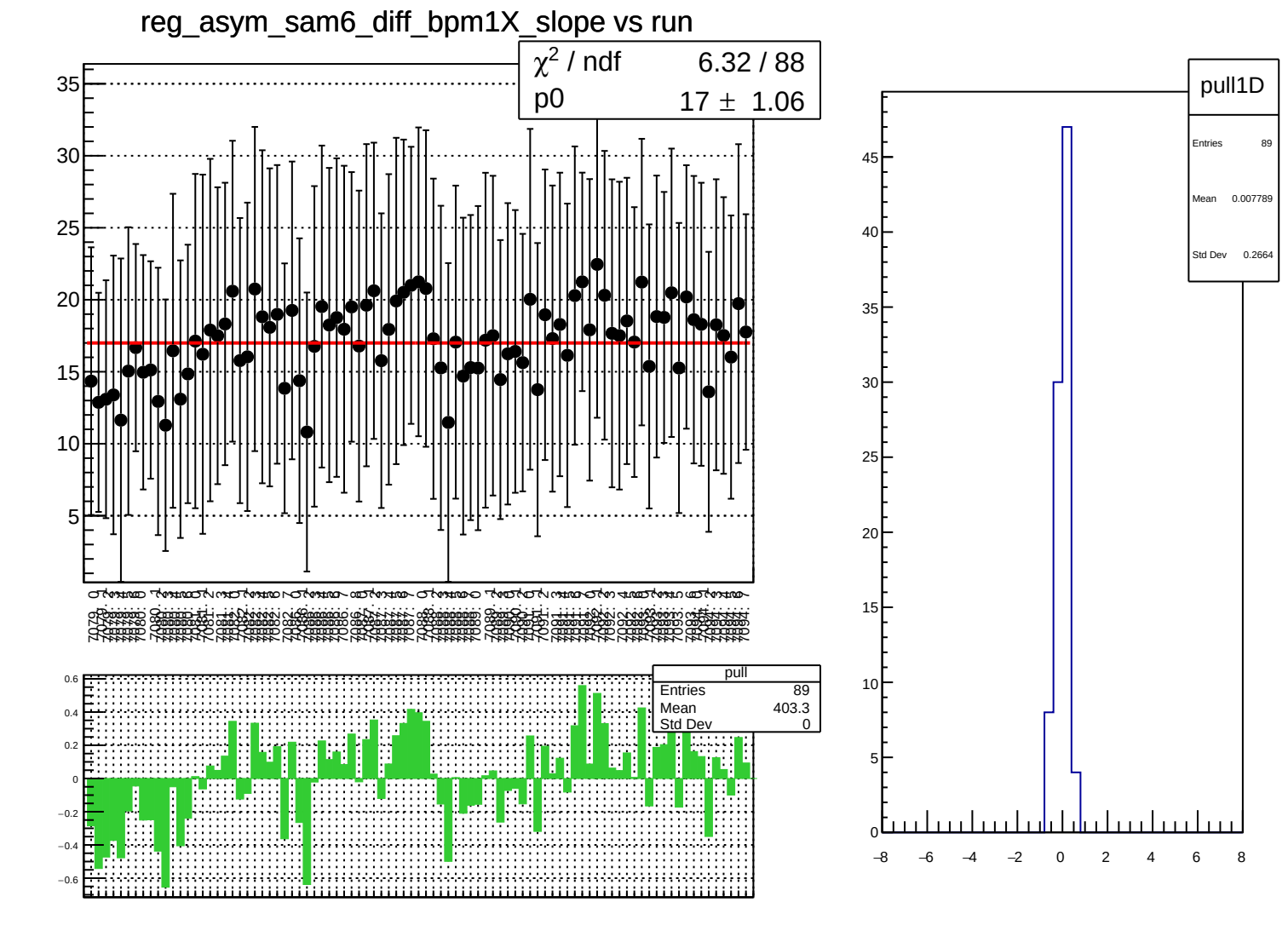

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 64.67 / 88
p0 19.83 ± 1.1
pull
Entries 89
Mean 191.1
Std Dev 0
pull1D
Entries 89
Mean −0.06428
Std Dev 0.85

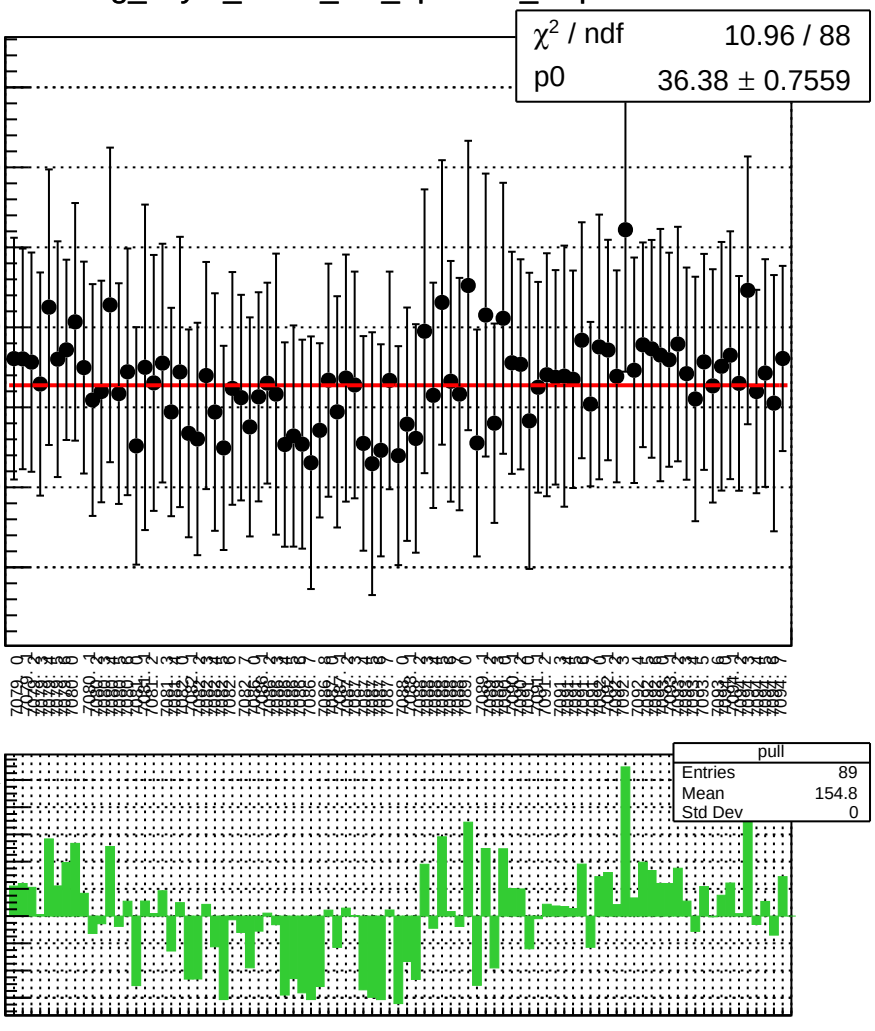

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 19.53 / 88
p0 96.62 ± 0.8564
pull
Entries 89
Mean 43.89
Std Dev 0

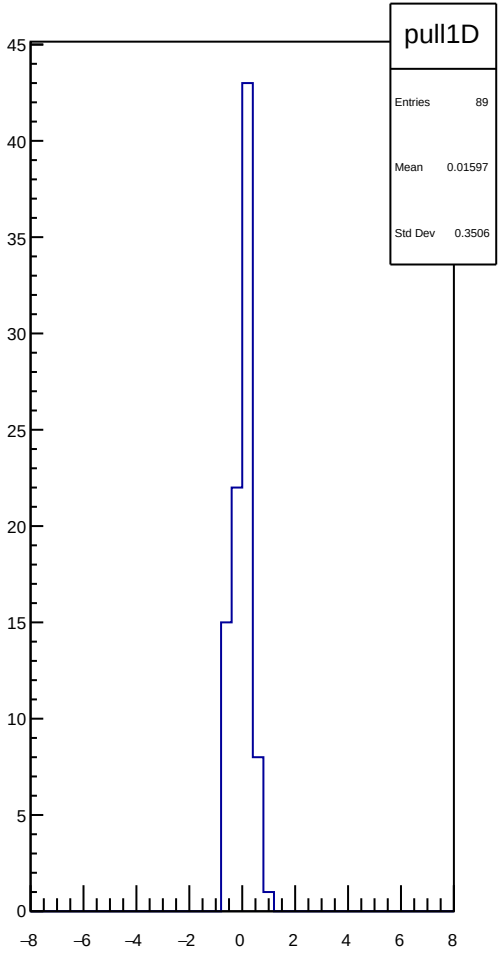

pull1D
Entries 89
Mean 0.008295
Std Dev 0.4684

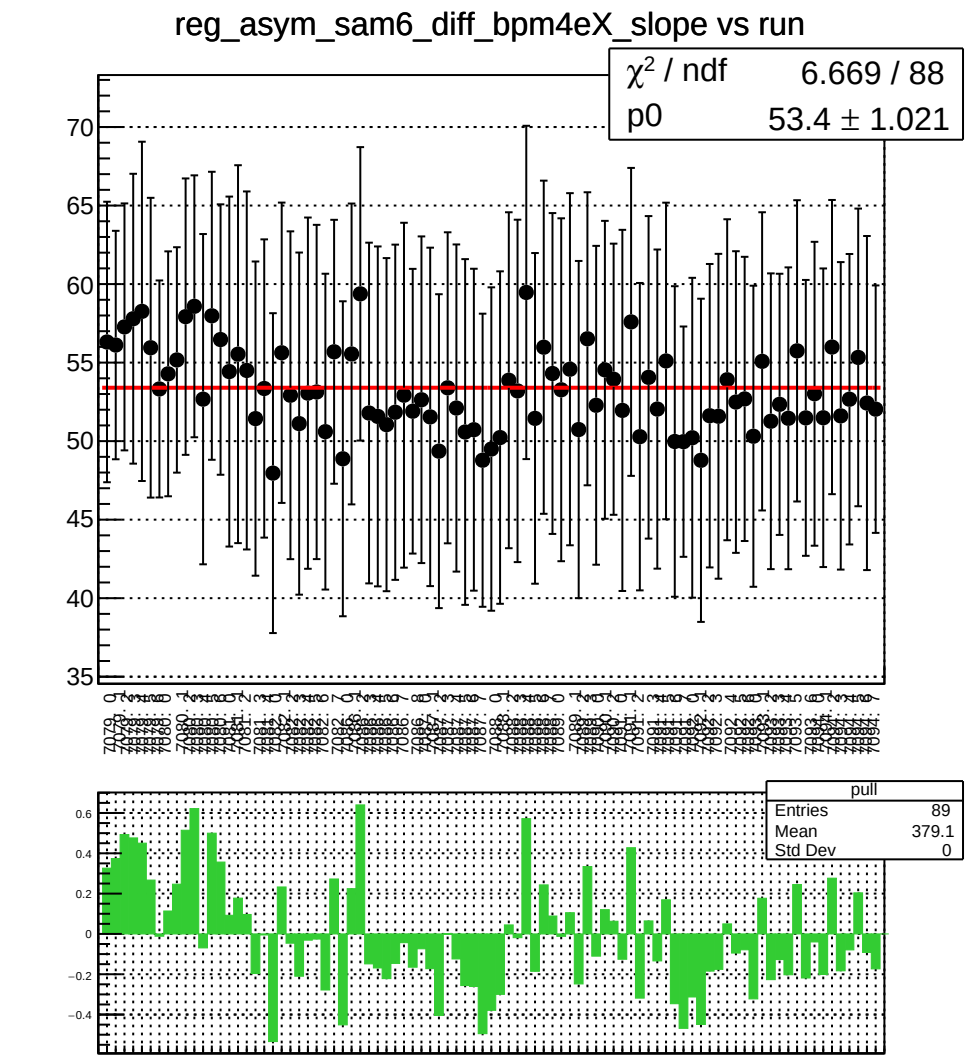

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 11.15 / 88
p0 −0.4516 ± 0.03969
pull
Entries 89
Mean −135.1
Std Dev 0

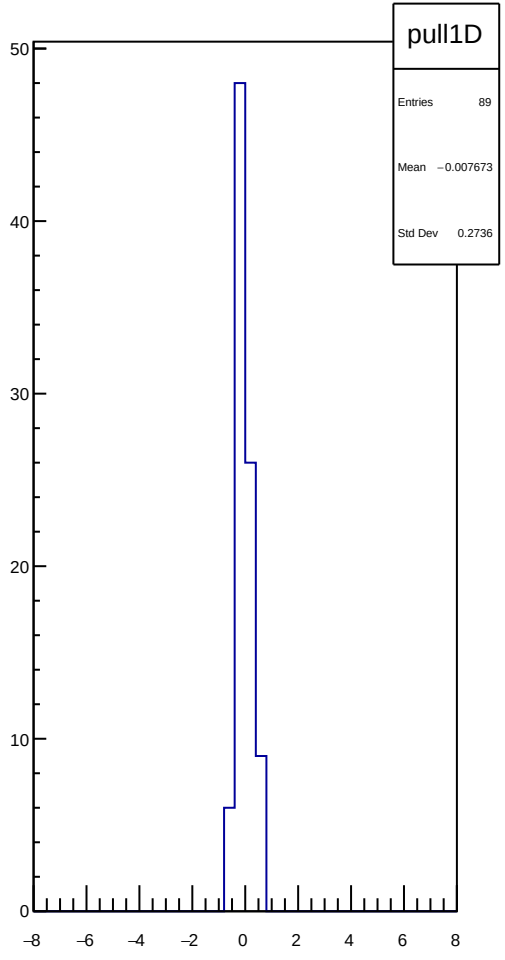

pull1D
Entries 89
Mean 0.00215
Std Dev 0.354

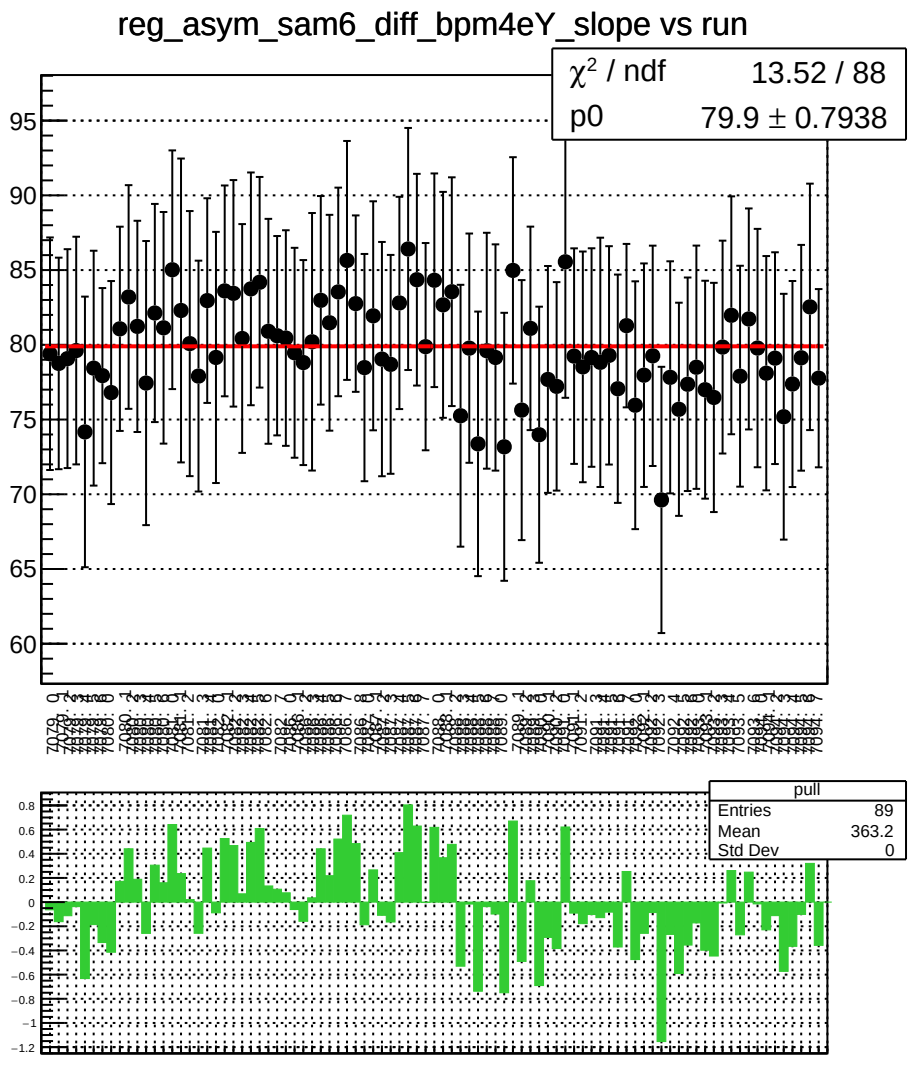

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 6.32 / 88
p0 17 ± 1.06
pull
Entries 89
Mean 403.3
Std Dev 0
pull1D
Entries 89
Mean 0.007789
Std Dev 0.2664

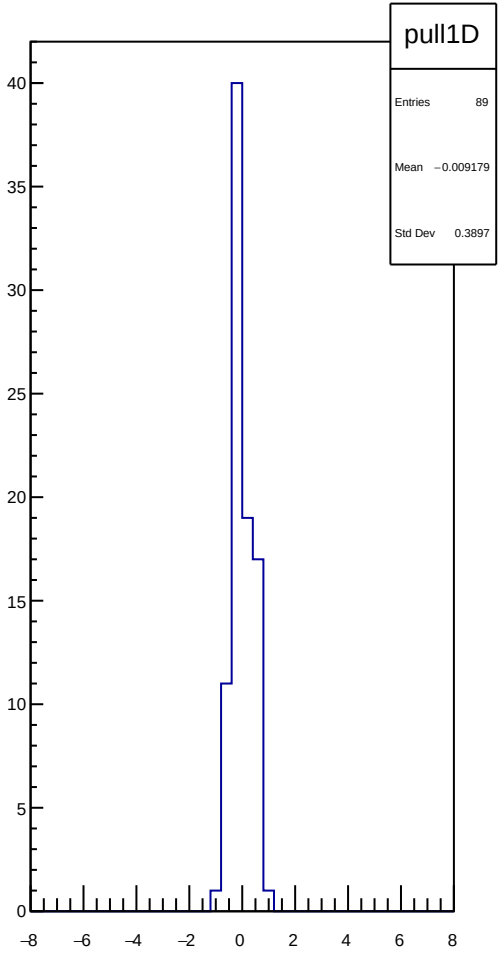

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 10.96 / 88
p0 36.38 ± 0.7559
pull
Entries 89
Mean 154.8
Std Dev 0

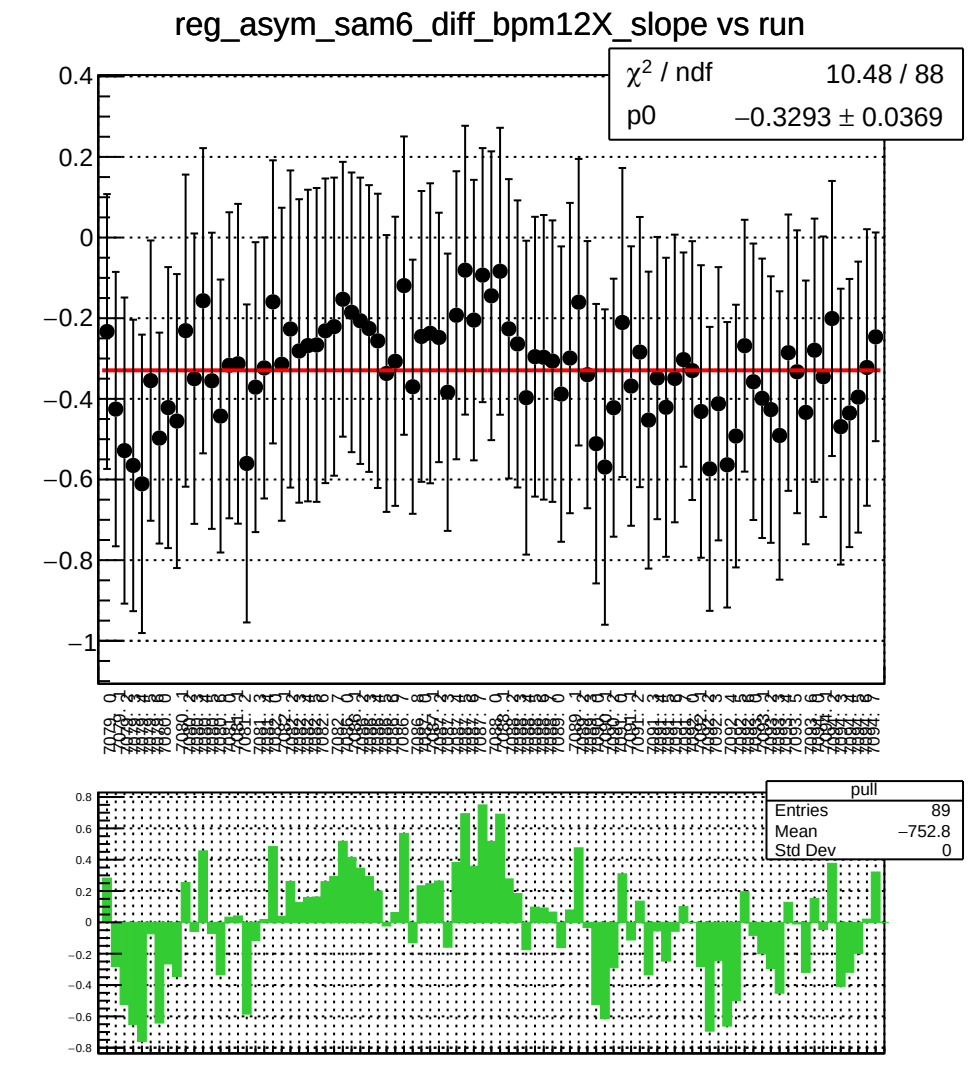

pull1D
Entries 89
Mean 0.01597
Std Dev 0.3506

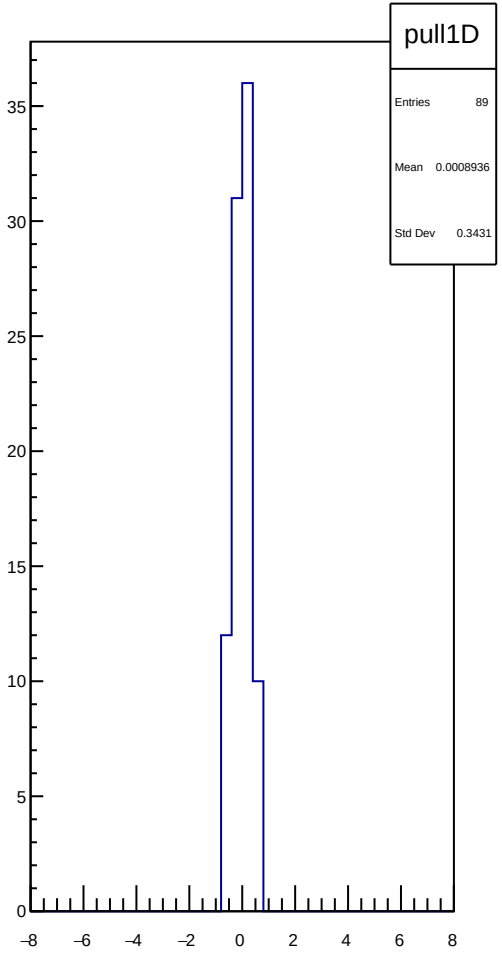

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 6.669 / 88
p0 53.4 ± 1.021
pull
Entries 89
Mean 379.1
Std Dev 0

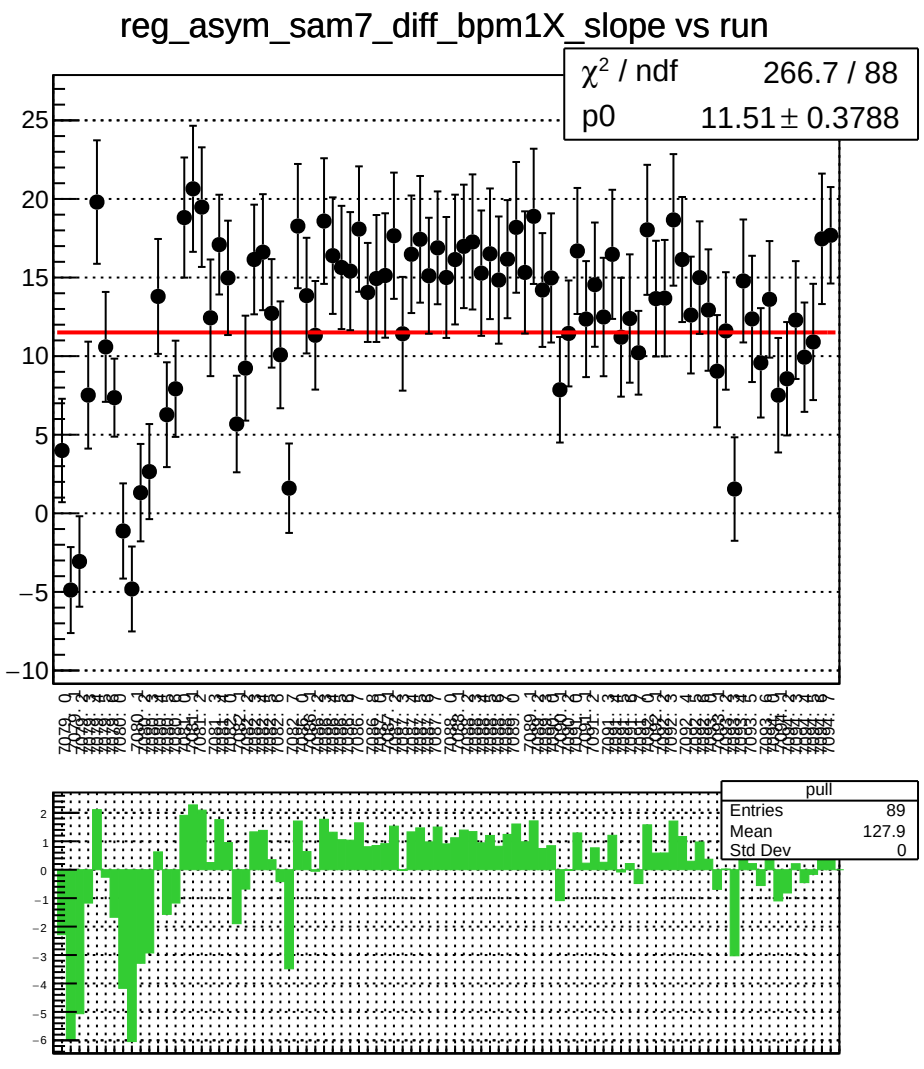

pull1D
Entries 89
Mean −0.007673
Std Dev 0.2736

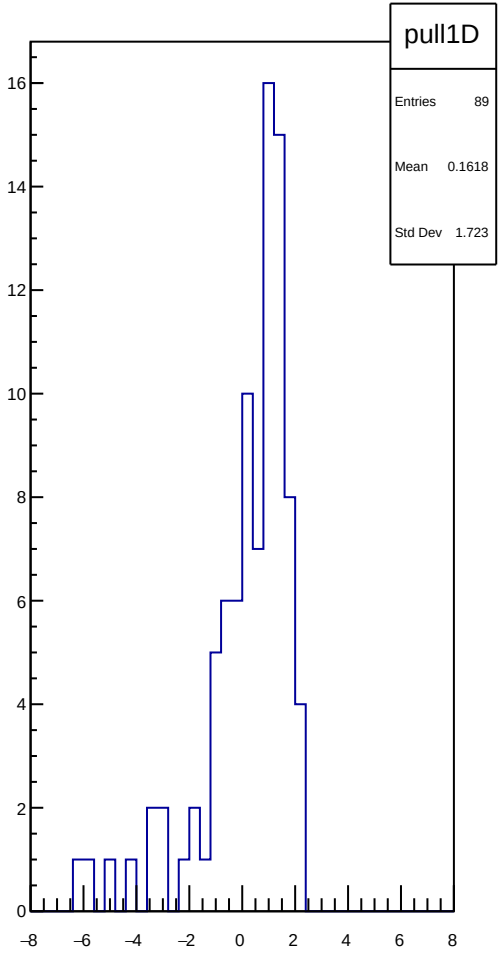

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 13.52 / 88
p0 79.9 ± 0.7938
pull
Entries 89
Mean 363.2
Std Dev 0

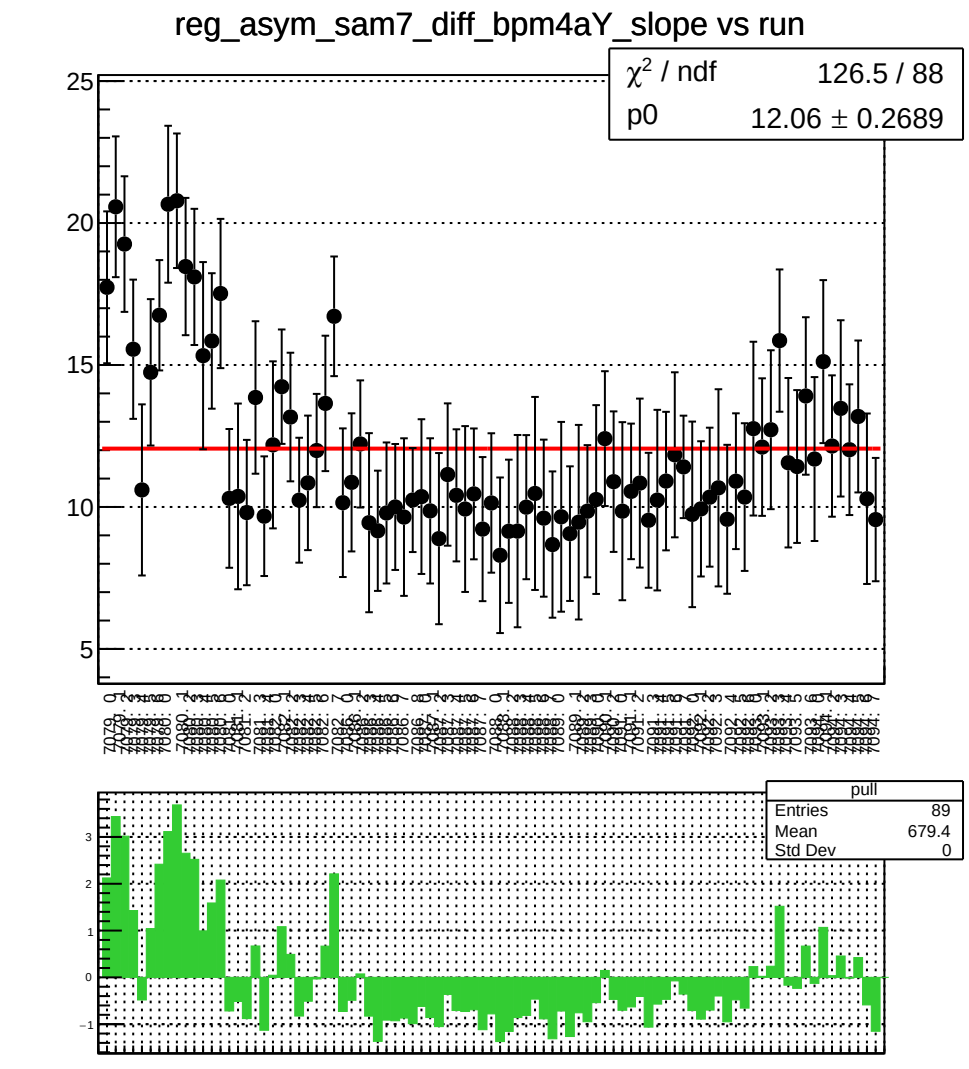

pull1D
Entries 89
Mean −0.009179
Std Dev 0.3897

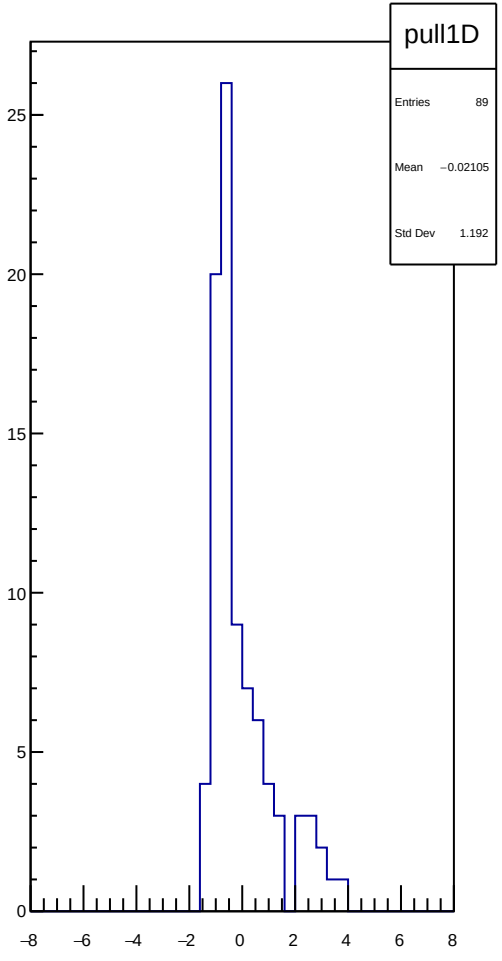

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 10.48 / 88
p0 −0.3293 ± 0.0369
pull
Entries 89
Mean −752.8
Std Dev 0

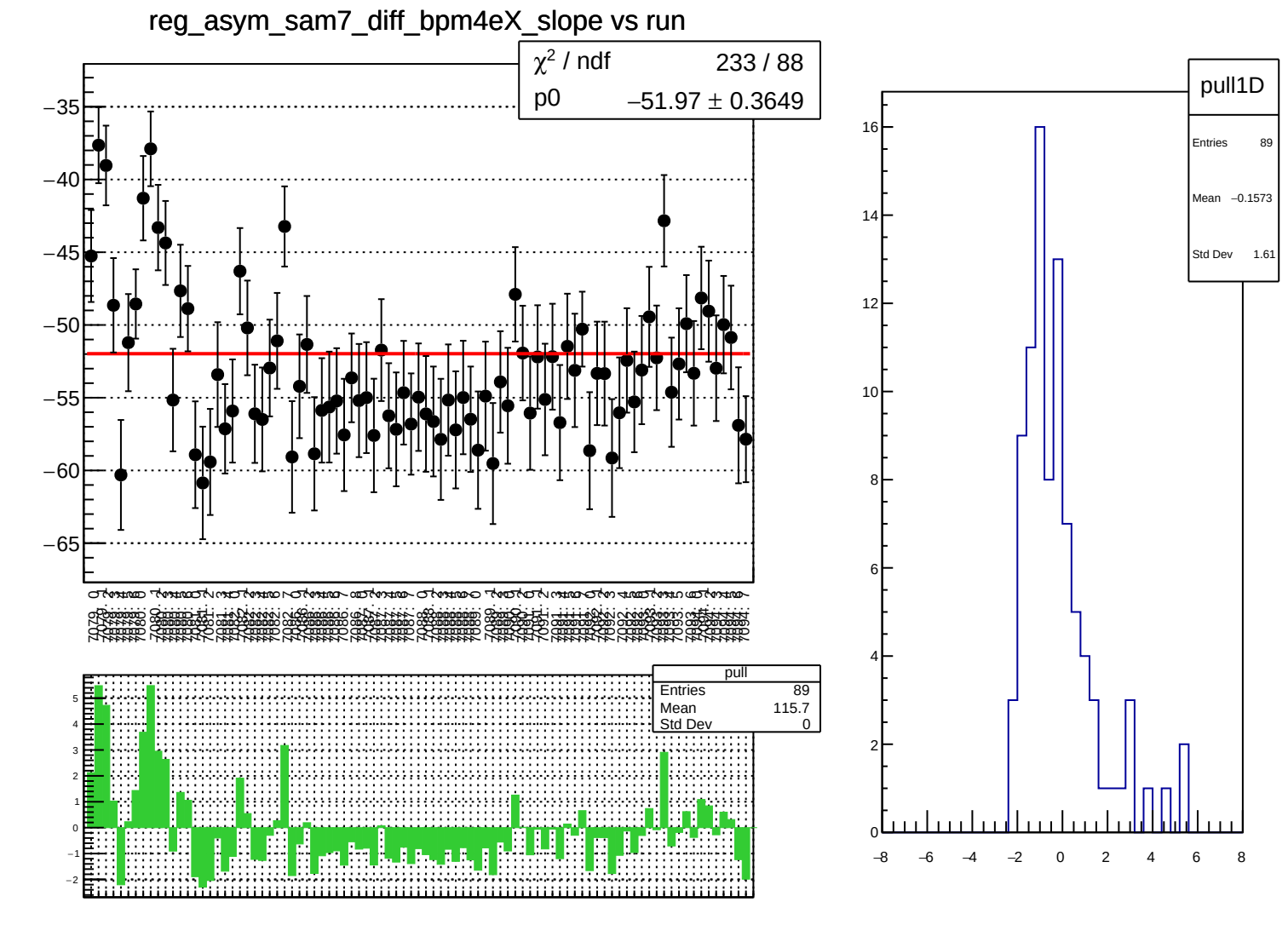

pull1D
Entries 89
Mean 0.0008936
Std Dev 0.3431

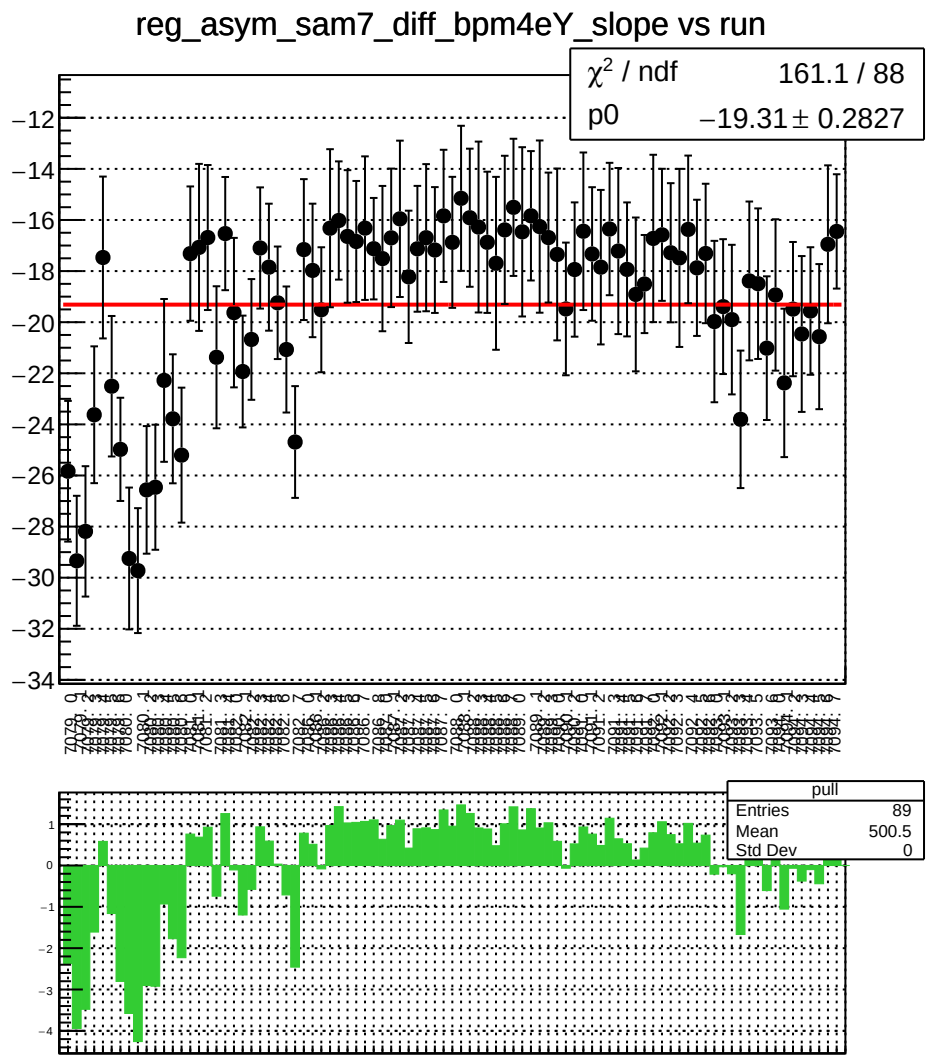

reg_asym_sam7_diff_bpm1X_slope vs run
χ^2 / ndf 266.7 / 88
p0 11.51 ± 0.3788
pull
Entries 89
Mean 127.9
Std Dev 0

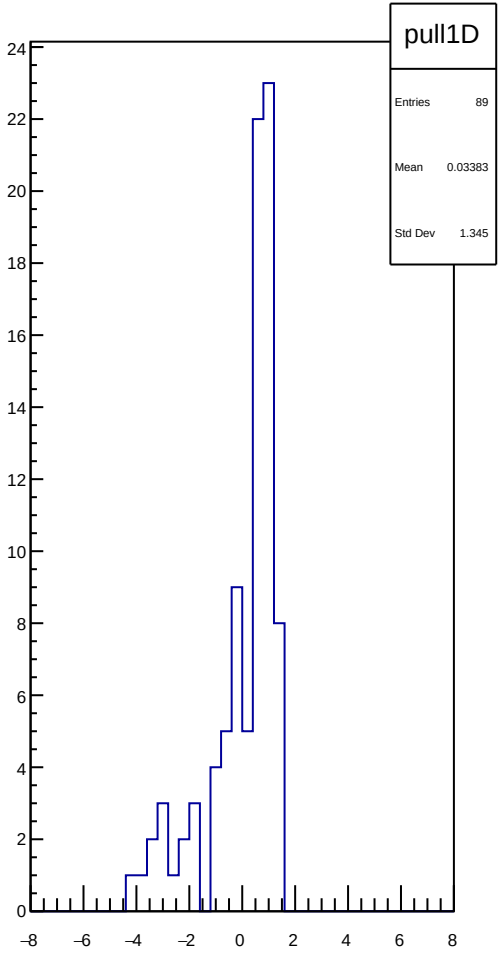

pull1D
Entries 89
Mean 0.1618
Std Dev 1.723

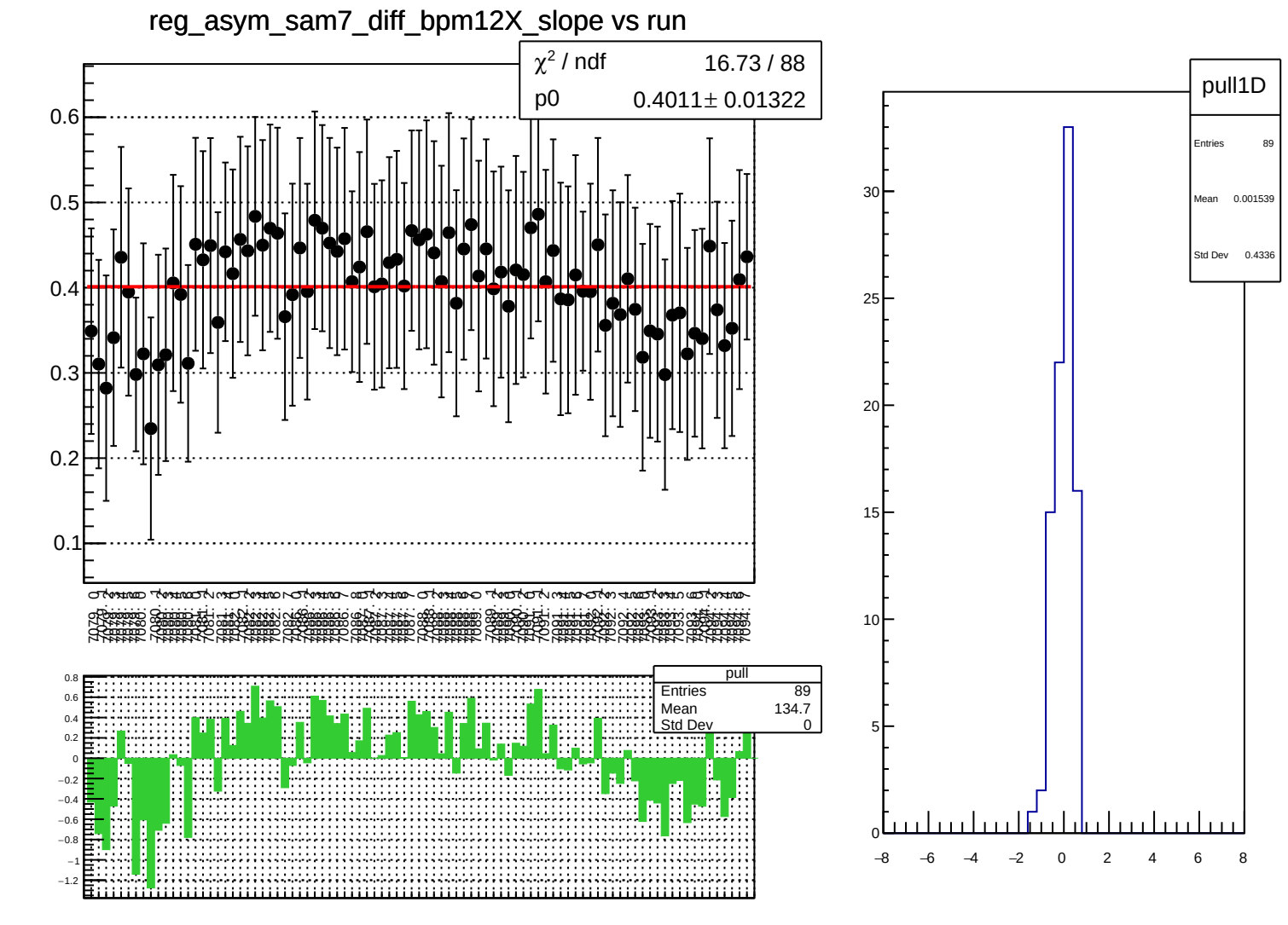

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 126.5 / 88
p0 12.06 ± 0.2689
pull
Entries 89
Mean 679.4
Std Dev 0

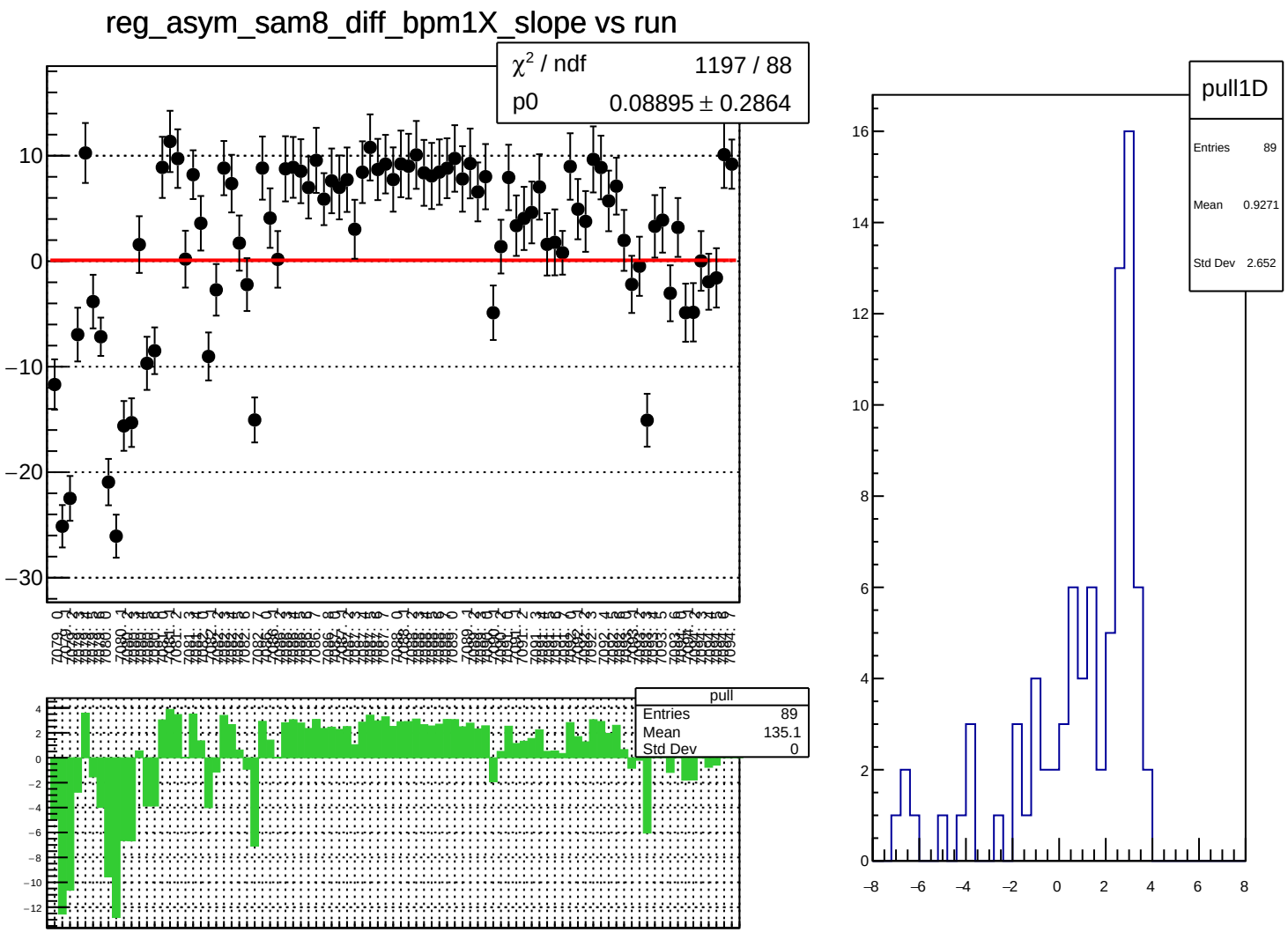

pull1D
Entries 89
Mean −0.02105
Std Dev 1.192

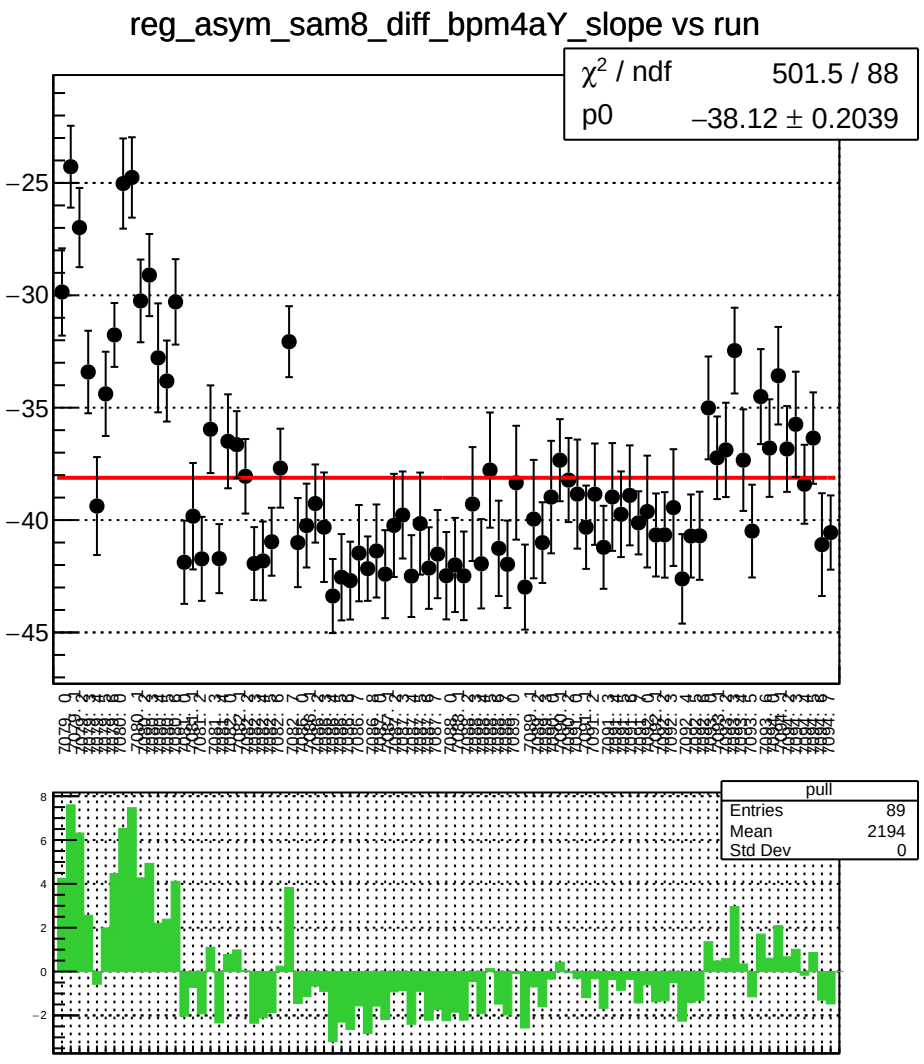

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 233 / 88
p0 −51.97 ± 0.3649
pull
Entries 89
Mean 115.7
Std Dev 0
pull1D
Entries 89
Mean −0.1573
Std Dev 1.61

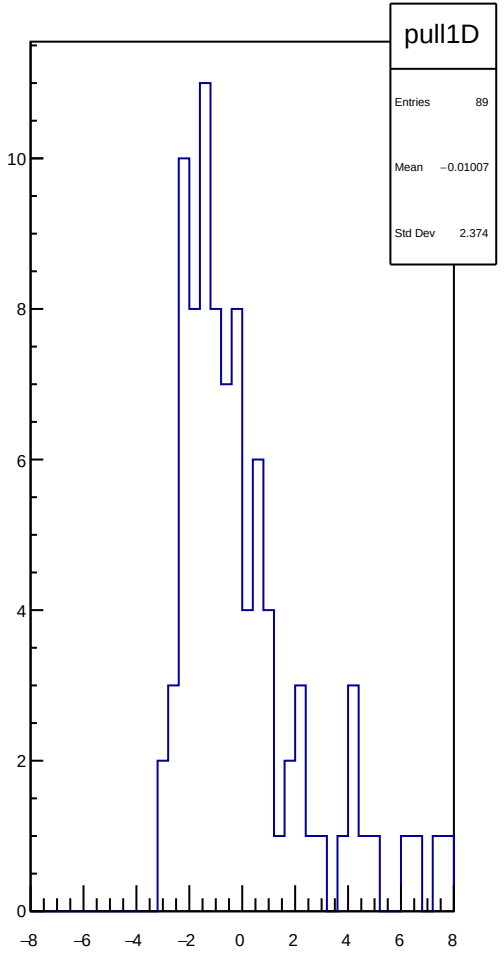

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 161.1 / 88
p0 −19.31 ± 0.2827
pull
Entries 89
Mean 500.5
Std Dev 0

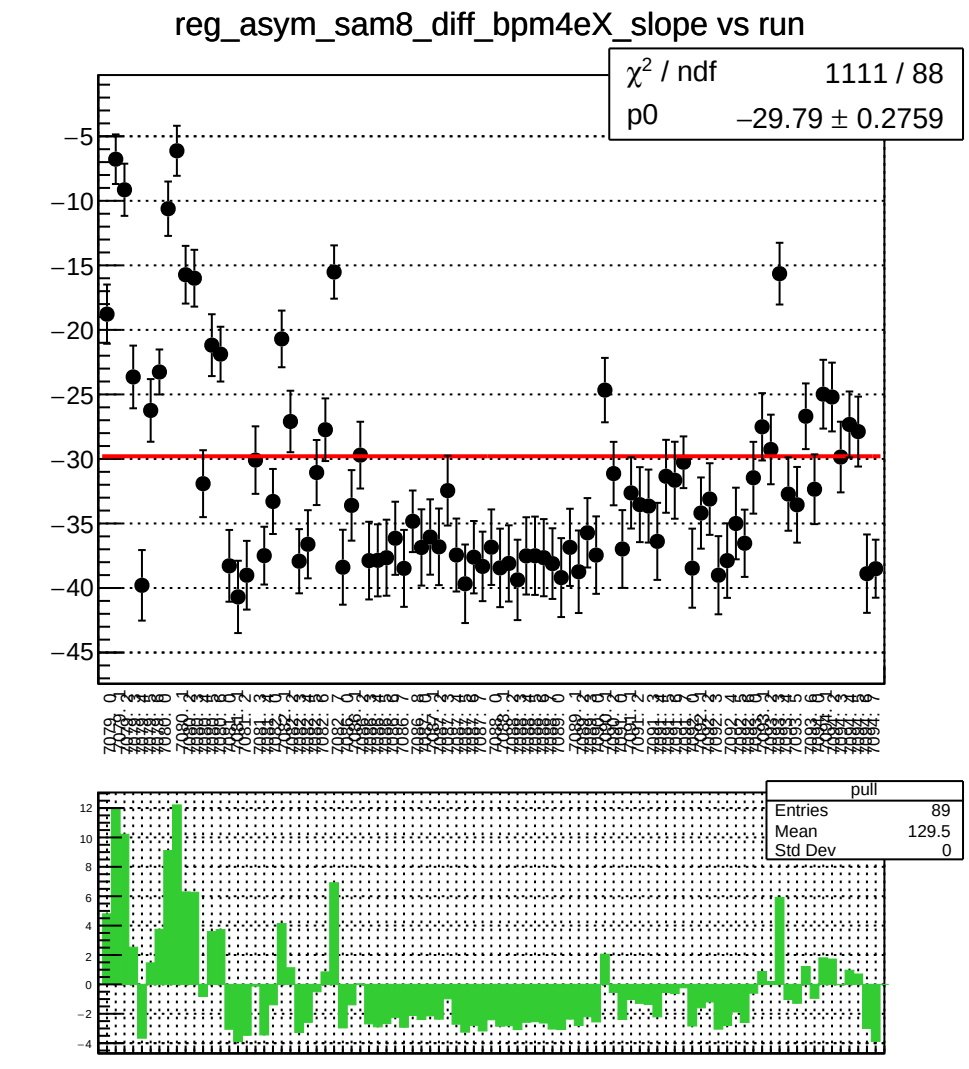

pull1D
Entries 89
Mean 0.03383
Std Dev 1.345

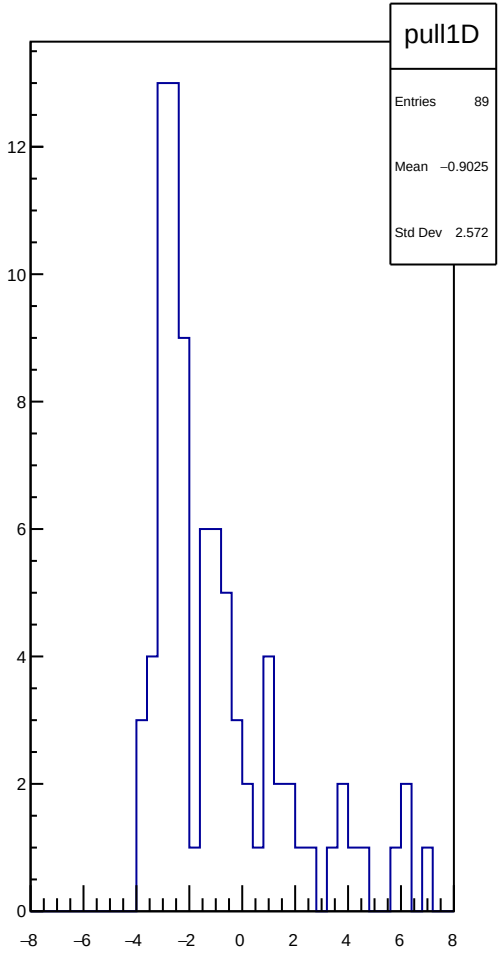

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 16.73 / 88
p0 0.4011± 0.01322
pull
Entries 89
Mean 134.7
Std Dev 0
pull1D
Entries 89
Mean 0.001539
Std Dev 0.4336

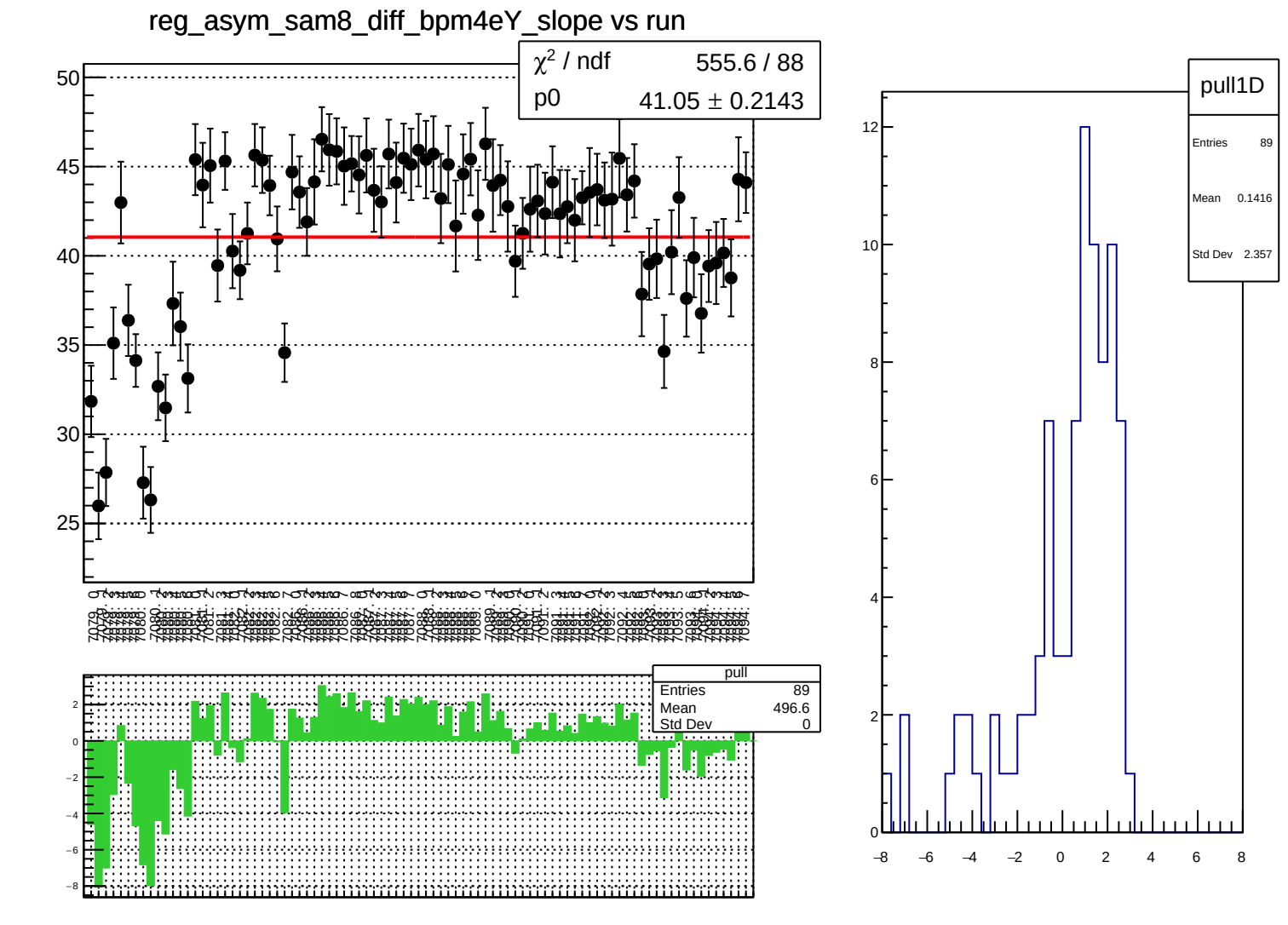

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 1197 / 88
p0 0.08895 ± 0.2864
pull
Entries 89
Mean 135.1
Std Dev 0
pull1D
Entries 89
Mean 0.9271
Std Dev 2.652

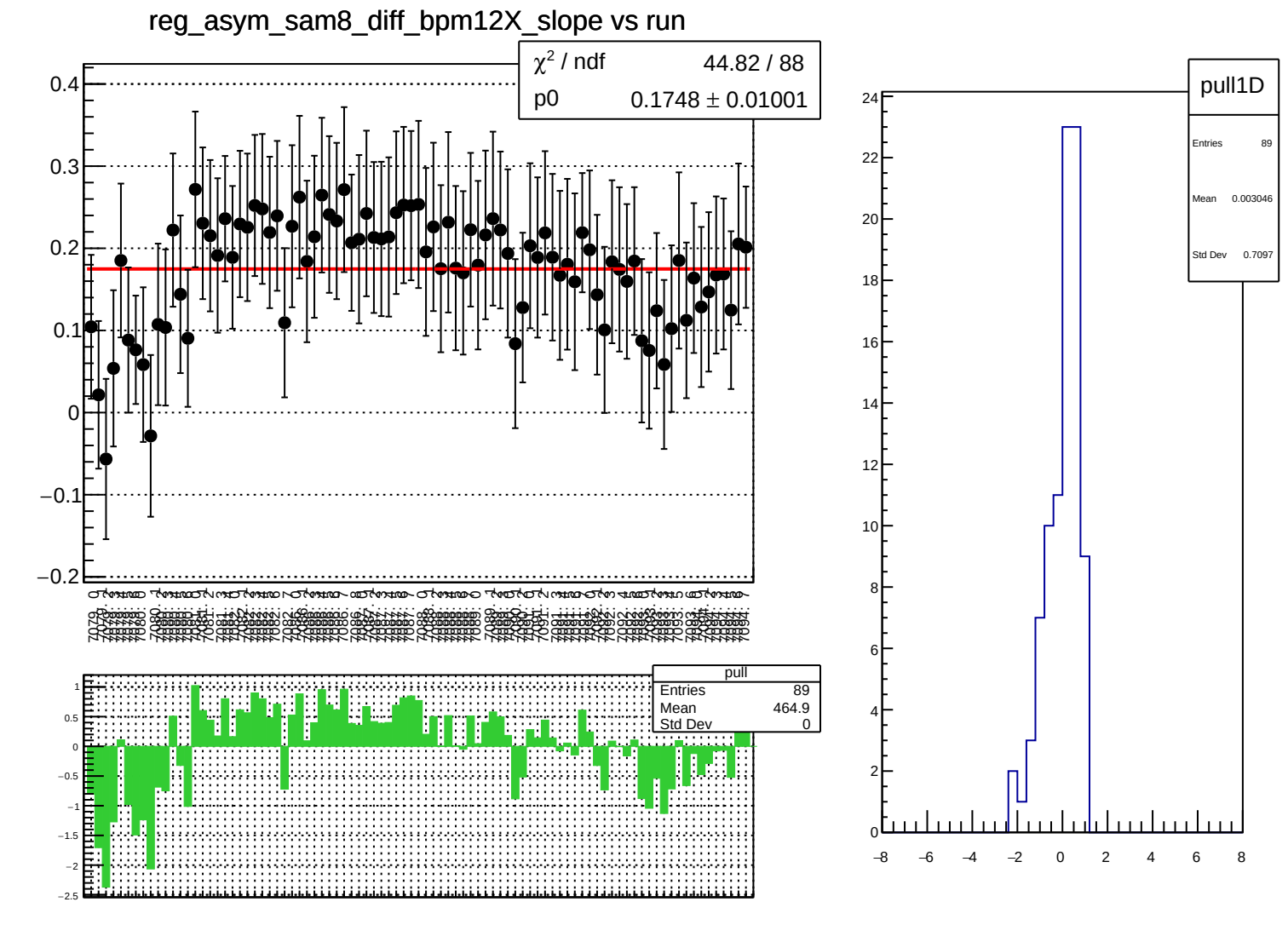

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 501.5 / 88
p0 −38.12 ± 0.2039
−25
−30
−35
−40
−45
pull
Entries 89
Mean 2194
Std Dev 0
8
6
4
2
0
−2

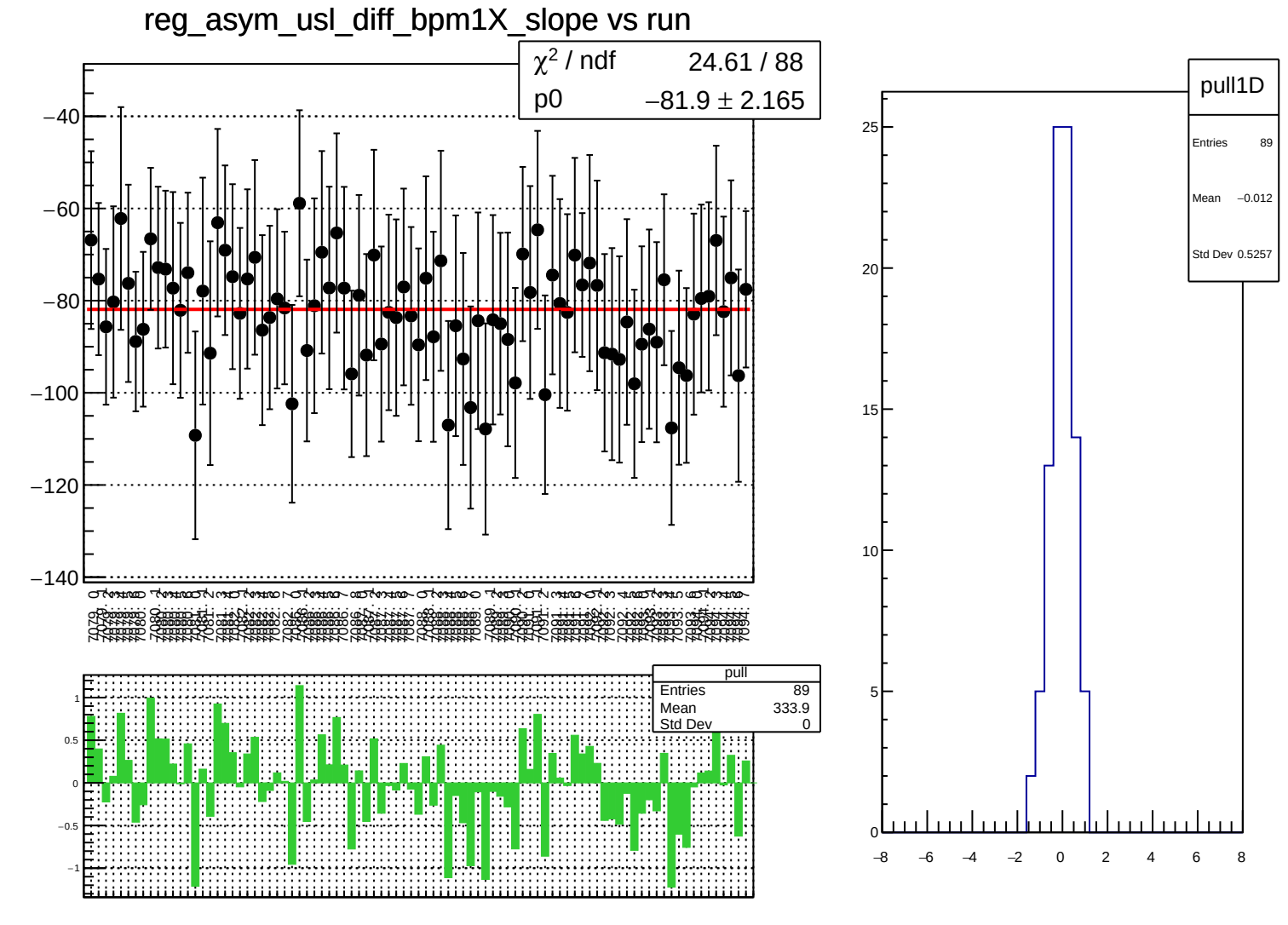

pull1D
Entries 89
Mean −0.01007
Std Dev 2.374
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

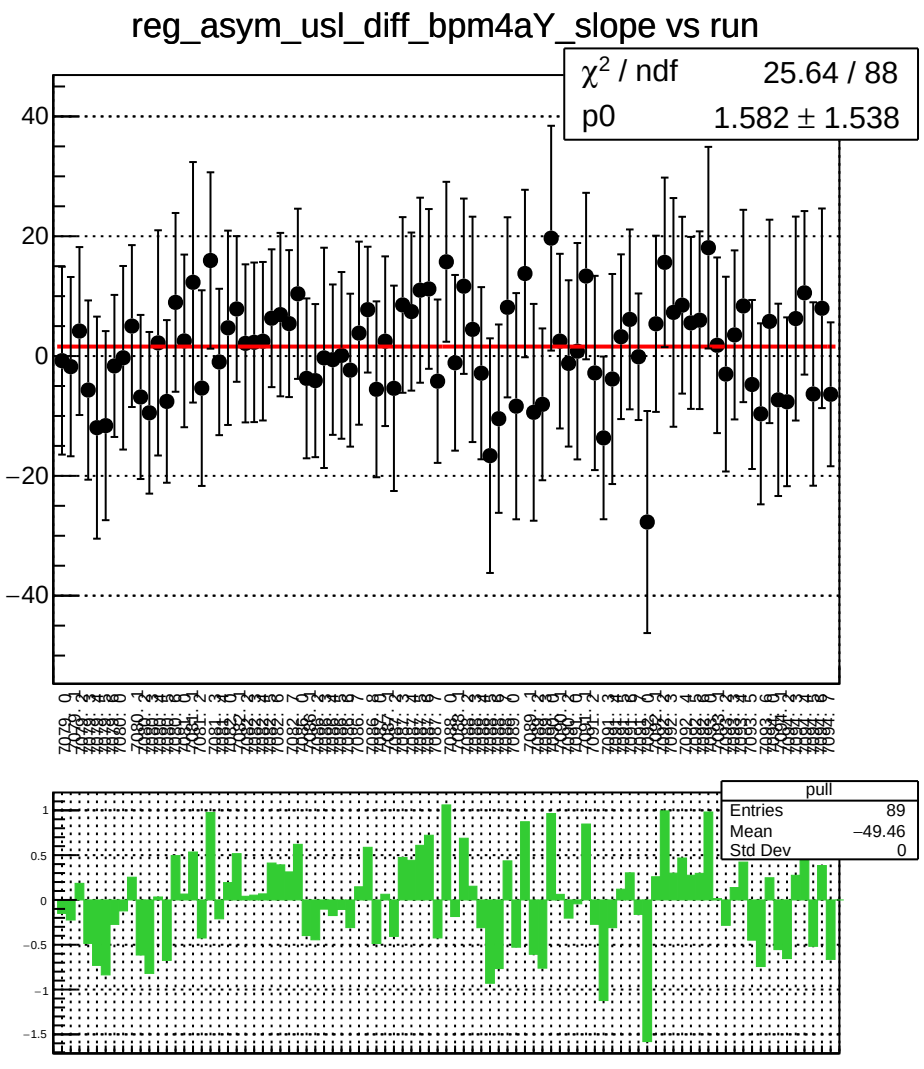

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 1111 / 88
p0 −29.79 ± 0.2759
pull
Entries 89
Mean 129.5
Std Dev 0

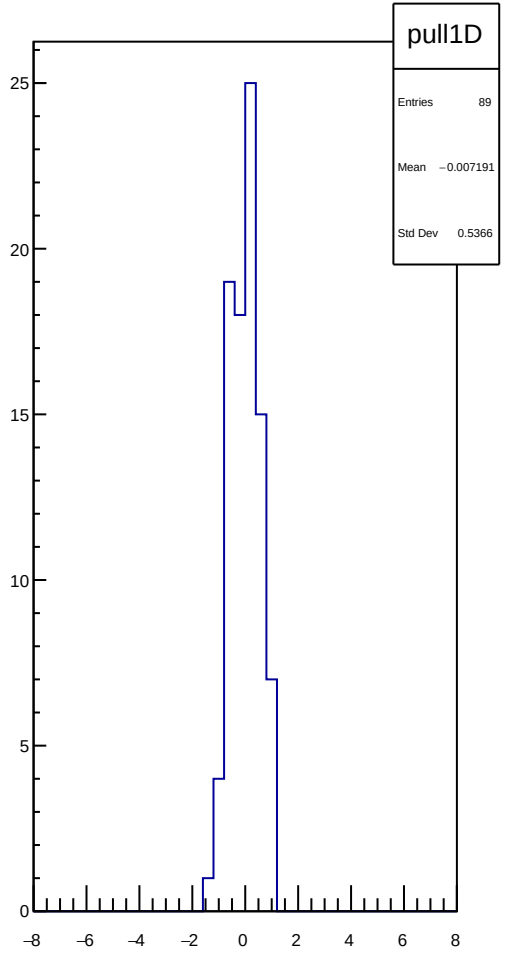

pull1D
Entries 89
Mean −0.9025
Std Dev 2.572

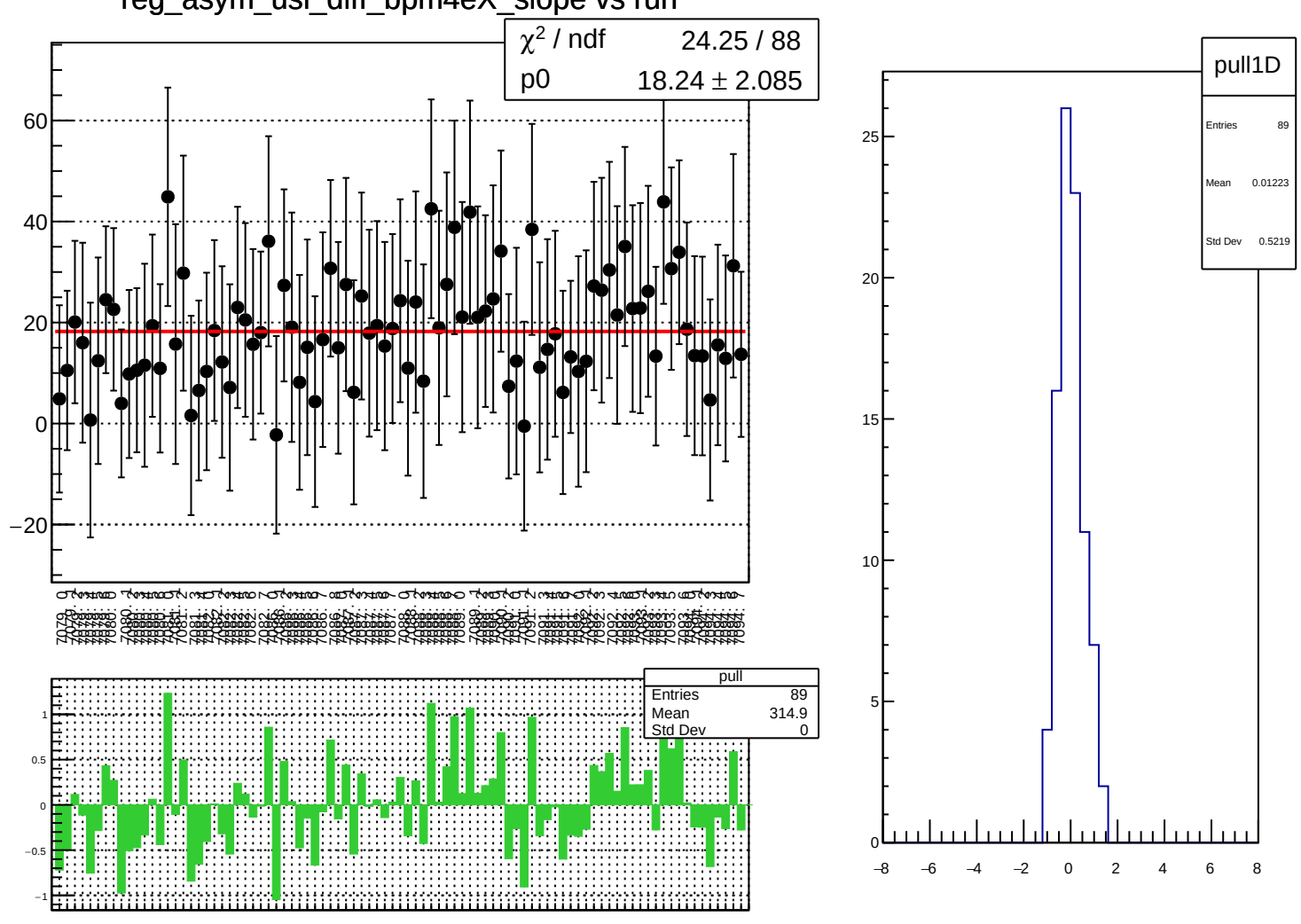

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 555.6 / 88
p0 41.05 ± 0.2143
pull
Entries 89
Mean 496.6
Std Dev 0
pull1D
Entries 89
Mean 0.1416
Std Dev 2.357

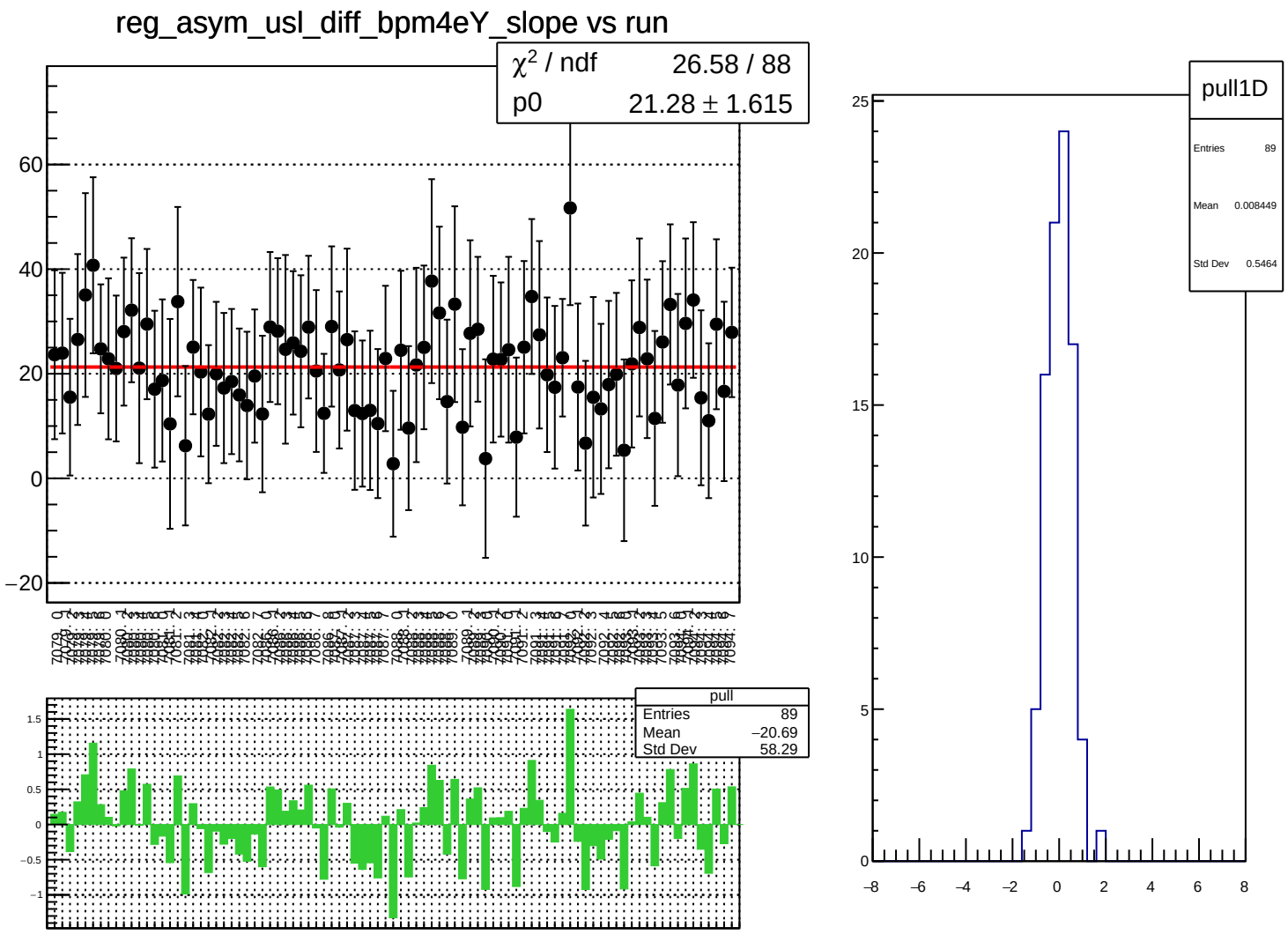

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 44.82 / 88
p0 0.1748 ± 0.01001
pull
Entries 89
Mean 464.9
Std Dev 0
pull1D
Entries 89
Mean 0.003046
Std Dev 0.7097

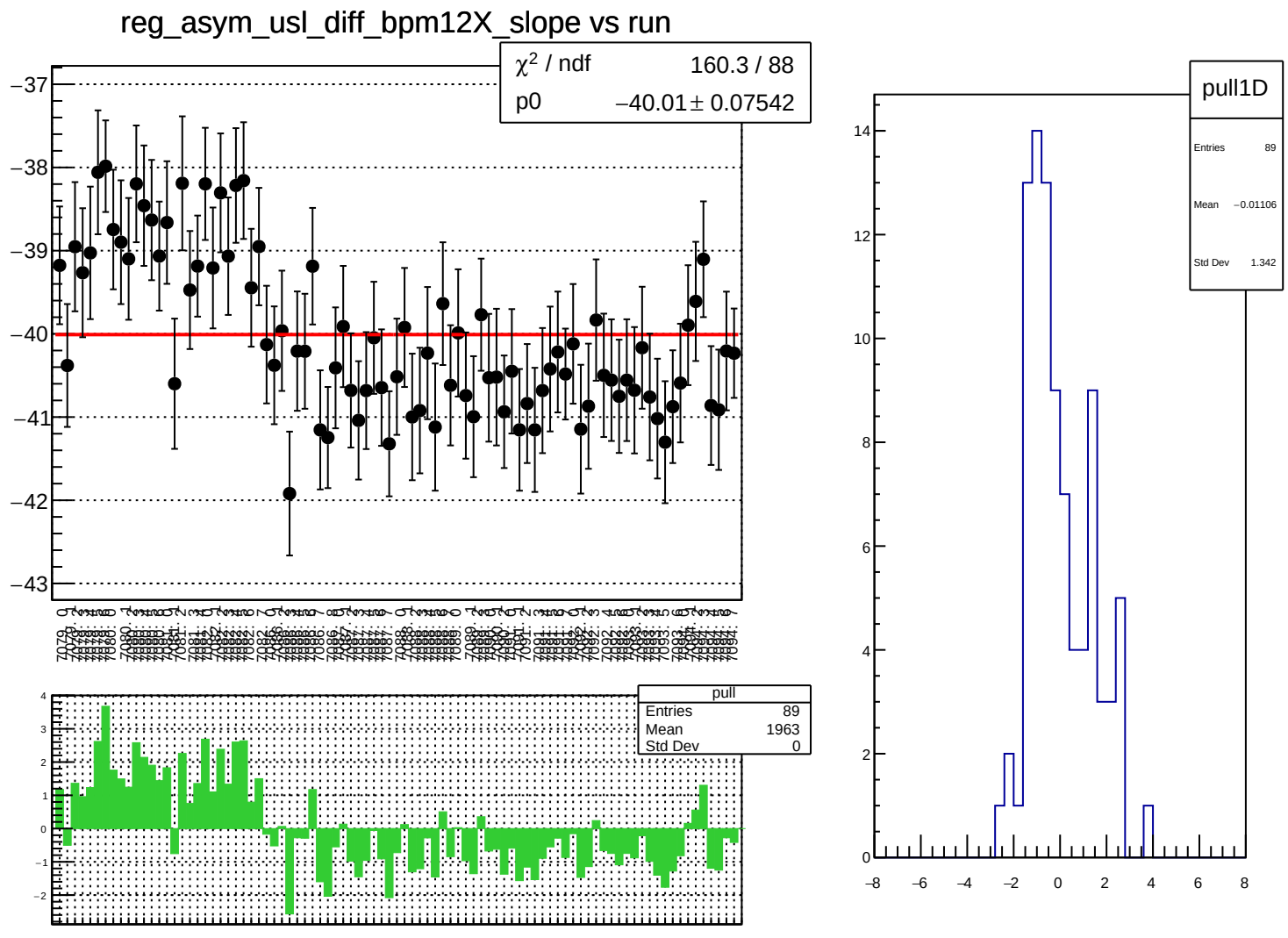

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 24.61 / 88
p0 −81.9 ± 2.165
−40
−60
−80
−100
−120
−140
pull
Entries 89
Mean 333.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.012
Std Dev 0.5257
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

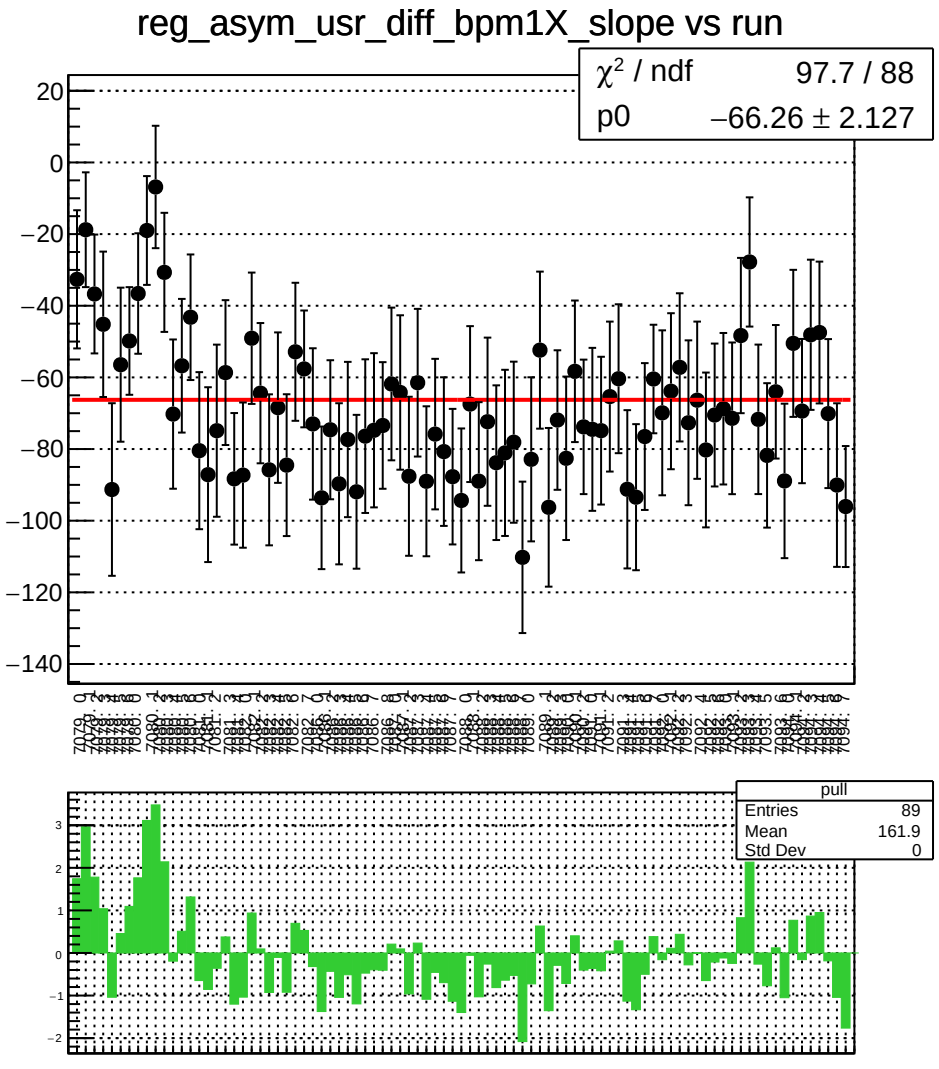

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 25.64 / 88
p0 1.582 ± 1.538
40
20
0
−20
−40
pull
Entries 89
Mean −49.46
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

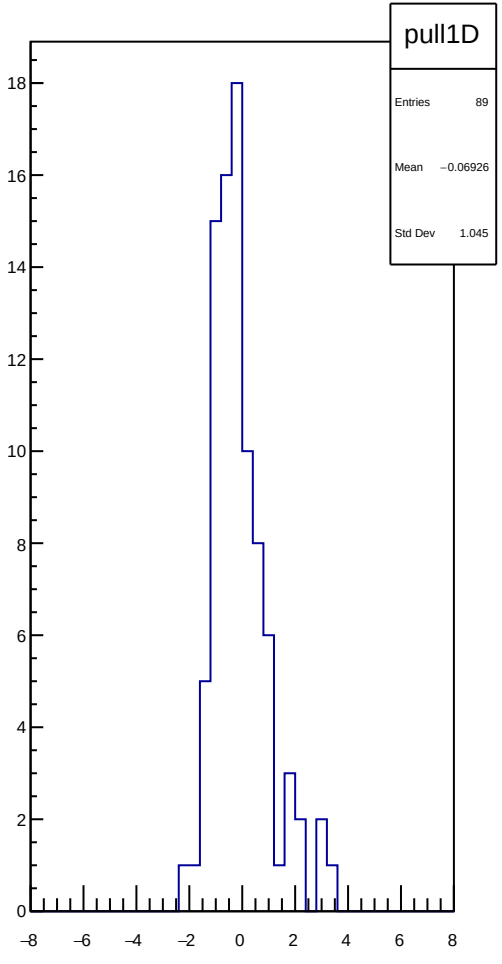

pull1D
Entries 89
Mean −0.007191
Std Dev 0.5366
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

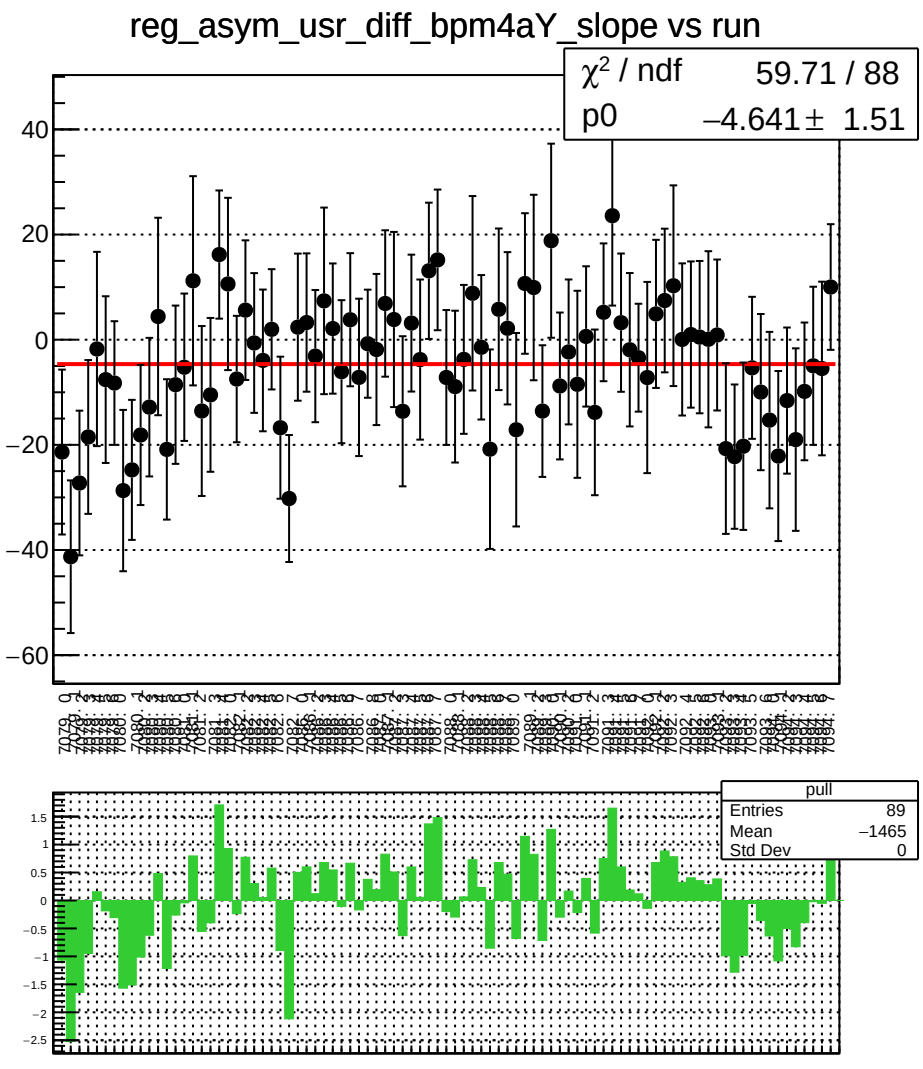

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 24.25 / 88
p0 18.24 ± 2.085
pull
Entries 89
Mean 314.9
Std Dev 0
pull1D
Entries 89
Mean 0.01223
Std Dev 0.5219

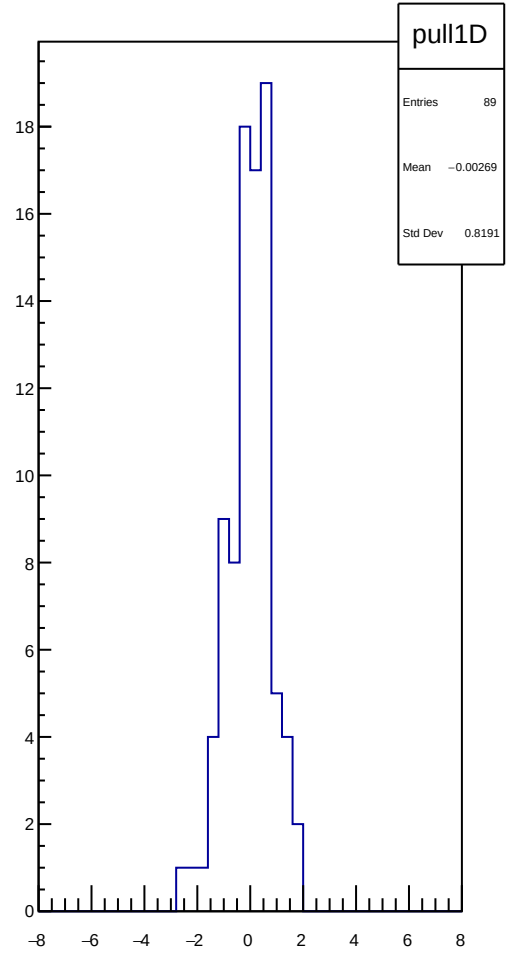

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 26.58 / 88
p0 21.28 ± 1.615
pull
Entries 89
Mean −20.69
Std Dev 58.29
pull1D
Entries 89
Mean 0.008449
Std Dev 0.5464

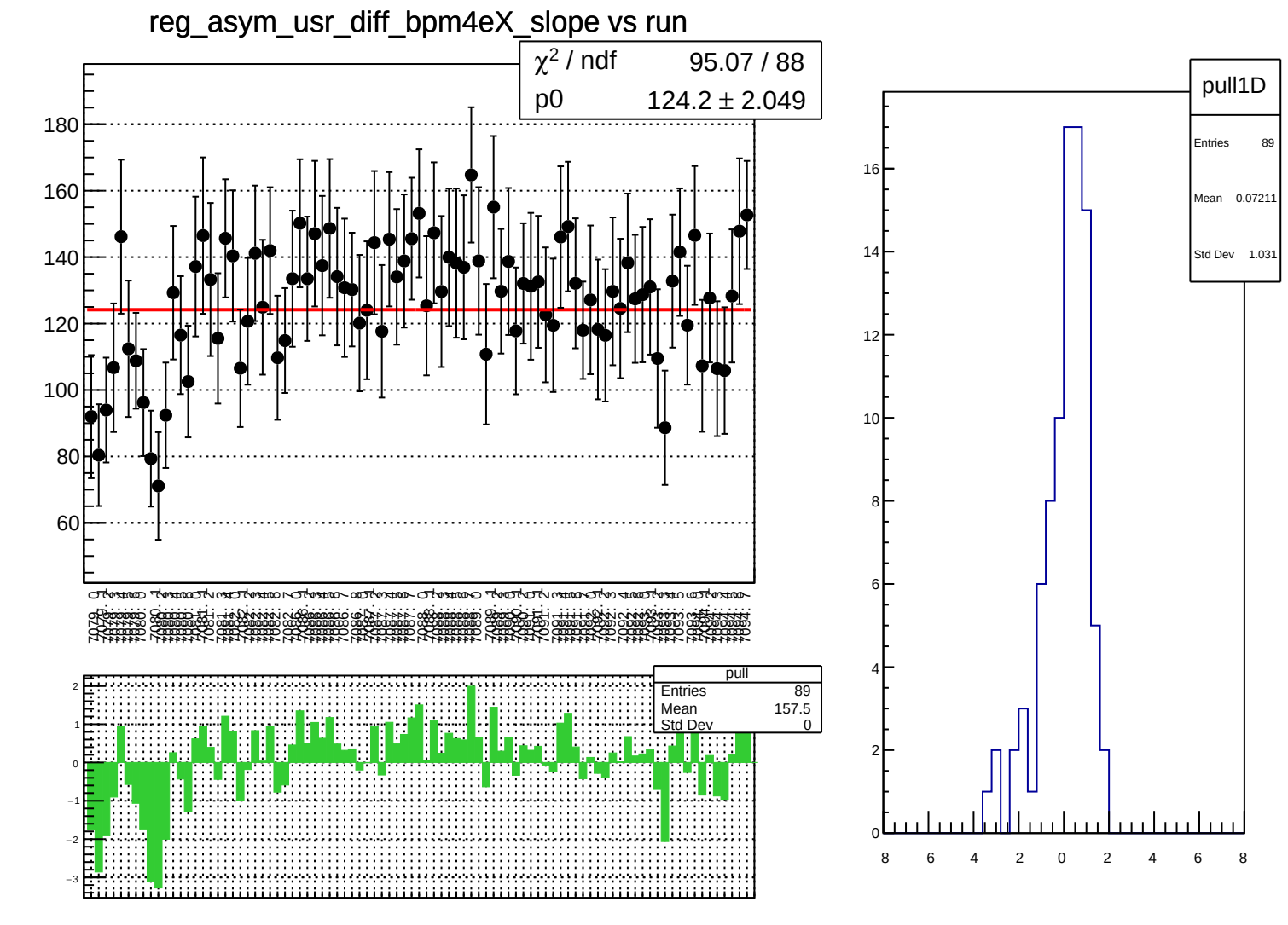

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 160.3 / 88
p0 −40.01 ± 0.07542
−37
−38
−39
−40
−41
−42
−43
pull
Entries 89
Mean 1963
Std Dev 0
pull1D
Entries 89
Mean −0.01106
Std Dev 1.342
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

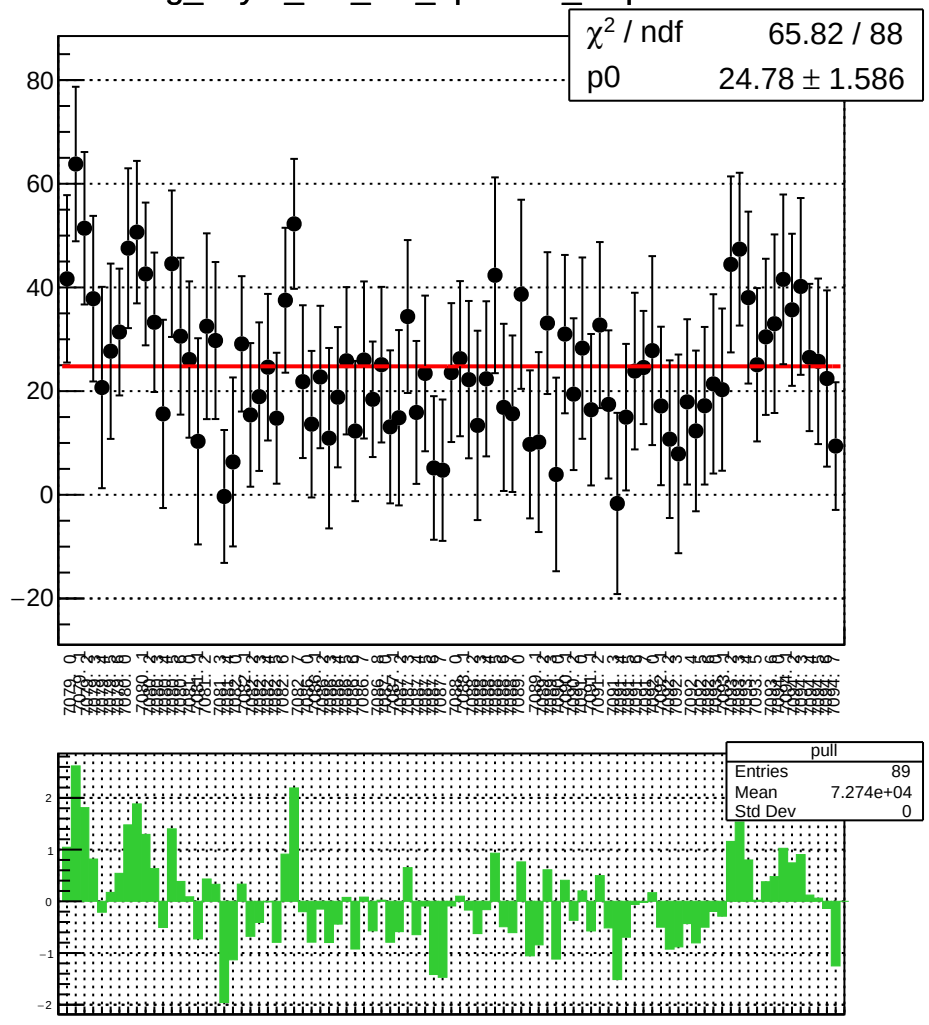

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 97.7 / 88
p0 −66.26 ± 2.127
pull
Entries 89
Mean 161.9
Std Dev 0

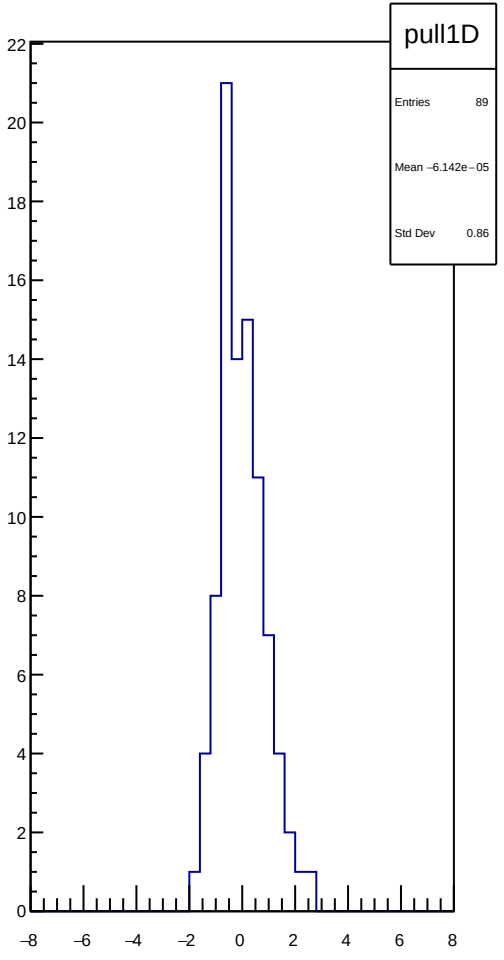

pull1D
Entries 89
Mean −0.06926
Std Dev 1.045

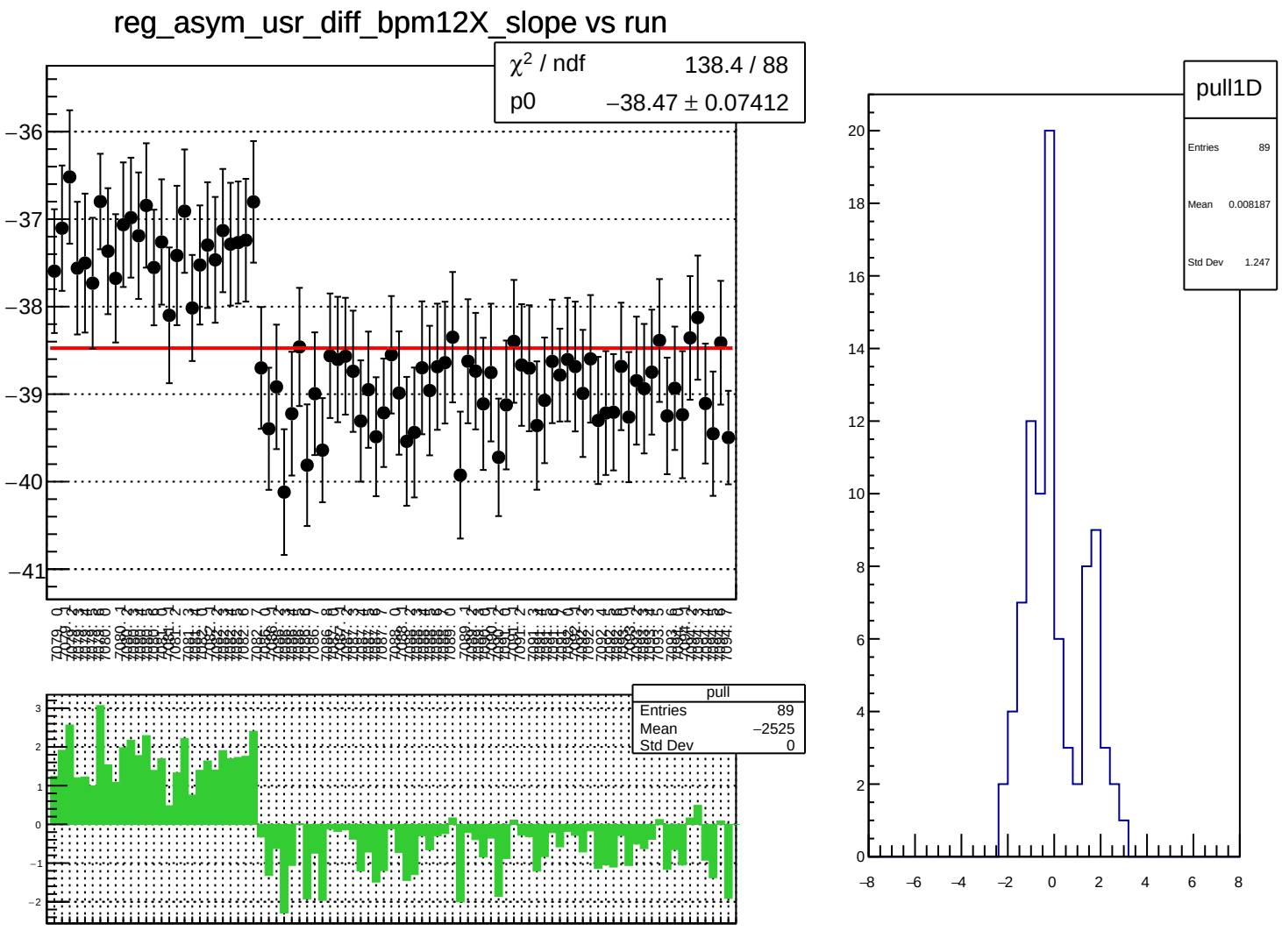

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 59.71 / 88
p0 −4.641 ± 1.51
pull
Entries 89
Mean −1465
Std Dev 0

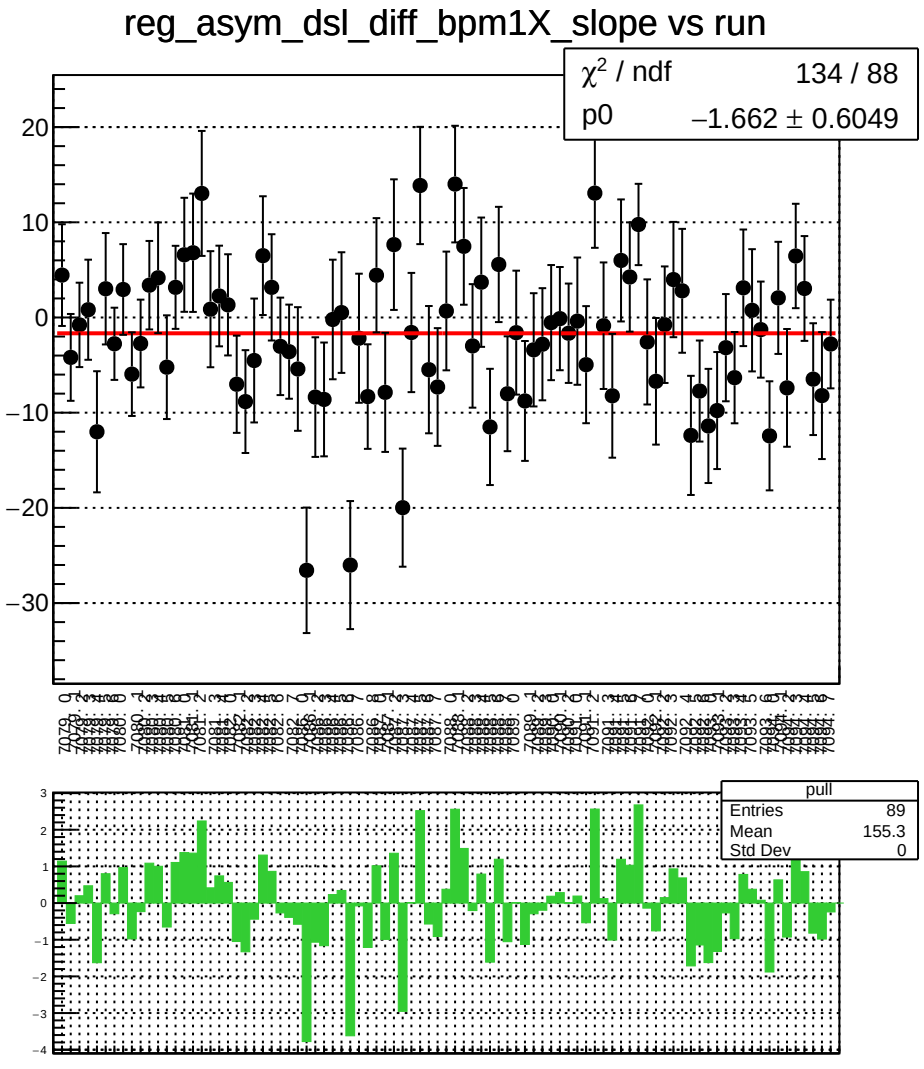

pull1D
Entries 89
Mean −0.00269
Std Dev 0.8191

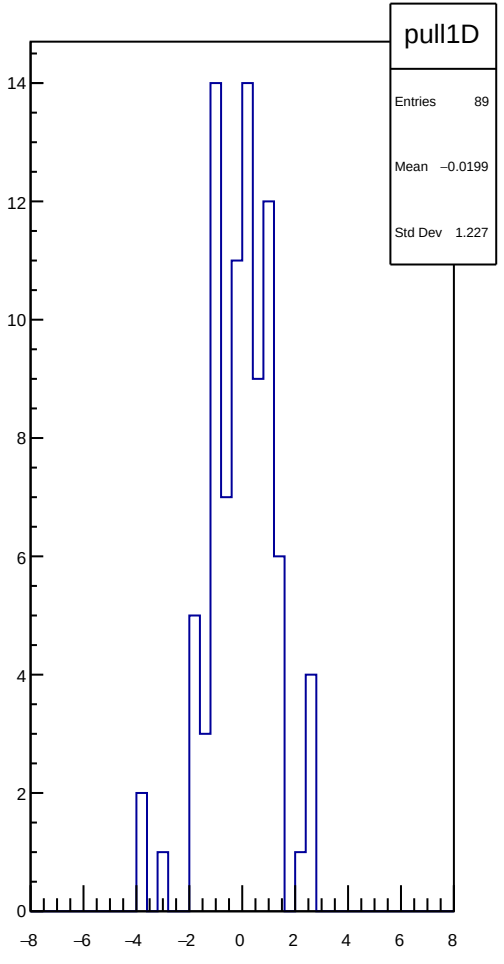

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 95.07 / 88
p0 124.2 ± 2.049
pull
Entries 89
Mean 157.5
Std Dev 0
pull1D
Entries 89
Mean 0.07211
Std Dev 1.031

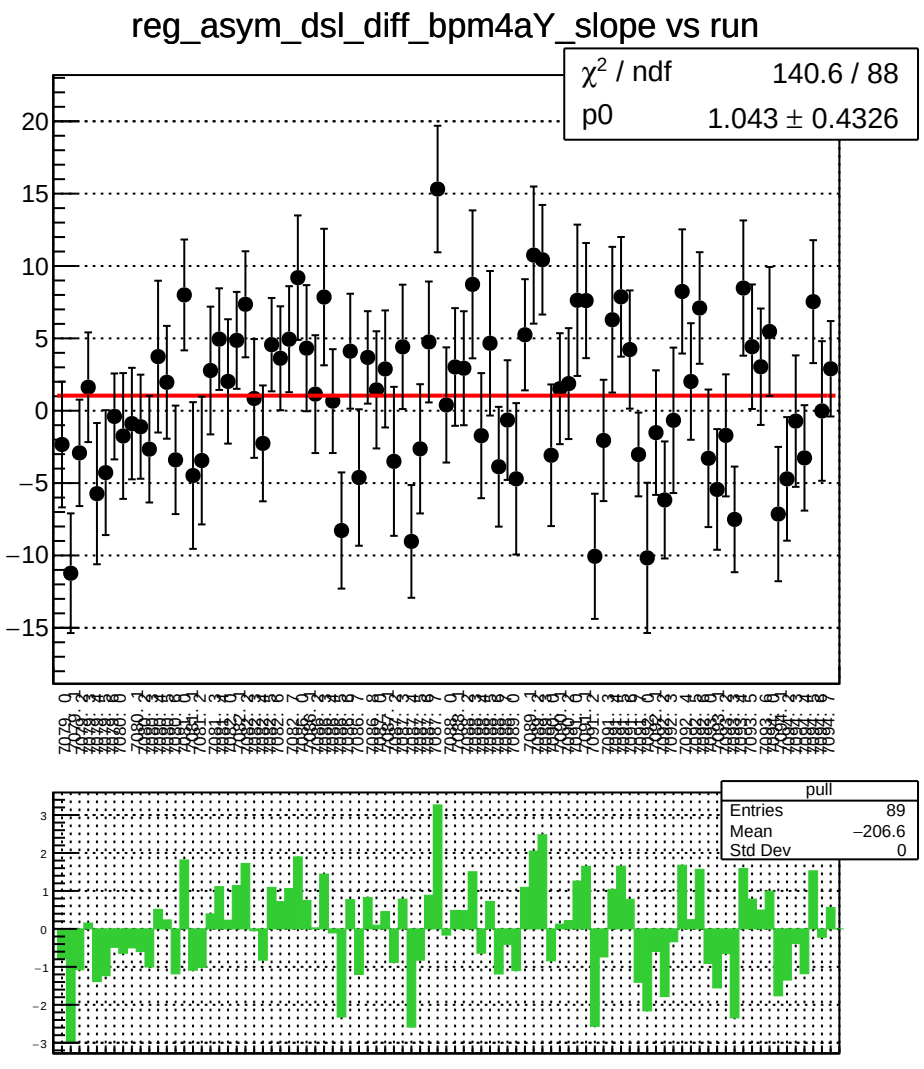

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 65.82 / 88
p0 24.78 ± 1.586
pull
Entries 89
Mean 7.274e+04
Std Dev 0

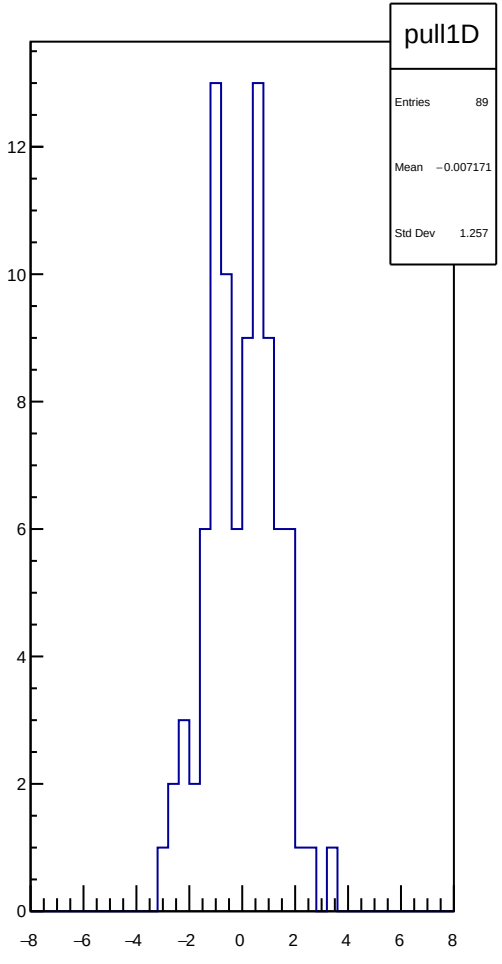

pull1D
Entries 89
Mean −6.142e−05
Std Dev 0.86

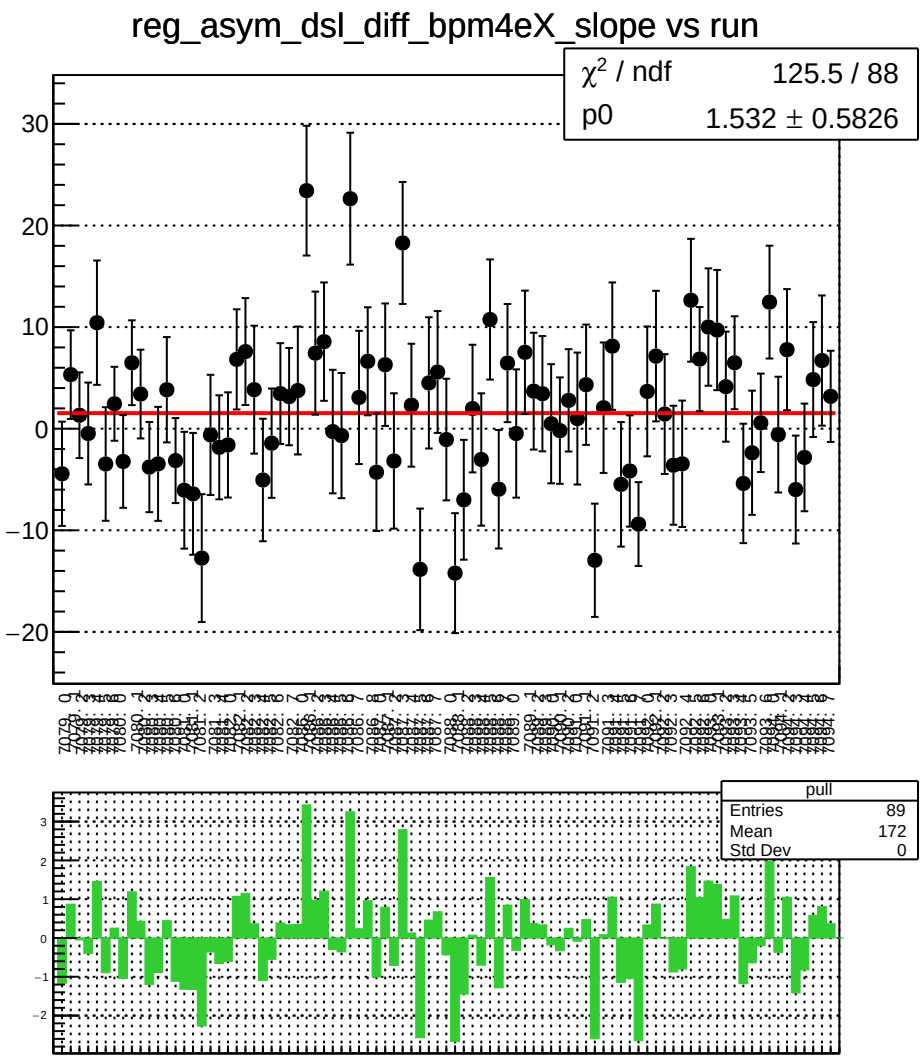

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 138.4 / 88
p0 −38.47 ± 0.07412
−36
−37
−38
−39
−40
−41
pull
Entries 89
Mean −2525
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.008187
Std Dev 1.247
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

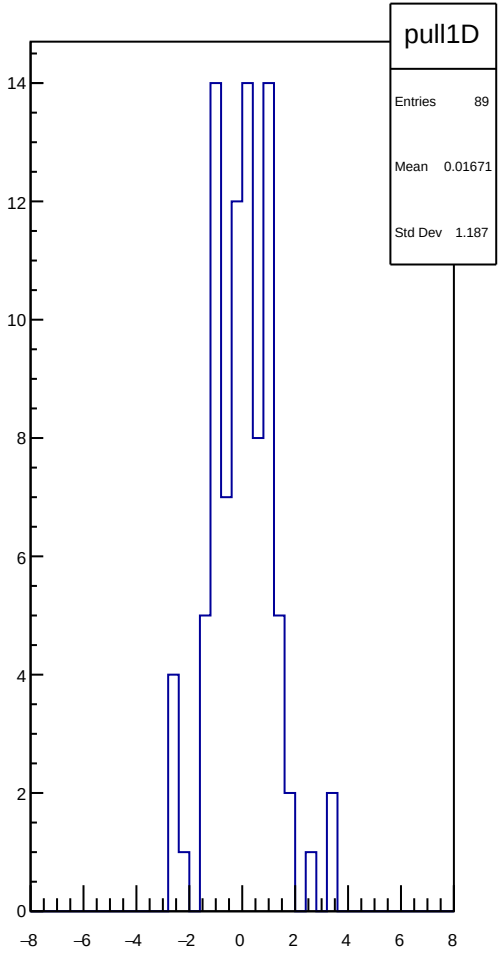

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 134 / 88
p0 −1.662 ± 0.6049
pull
Entries 89
Mean 155.3
Std Dev 0

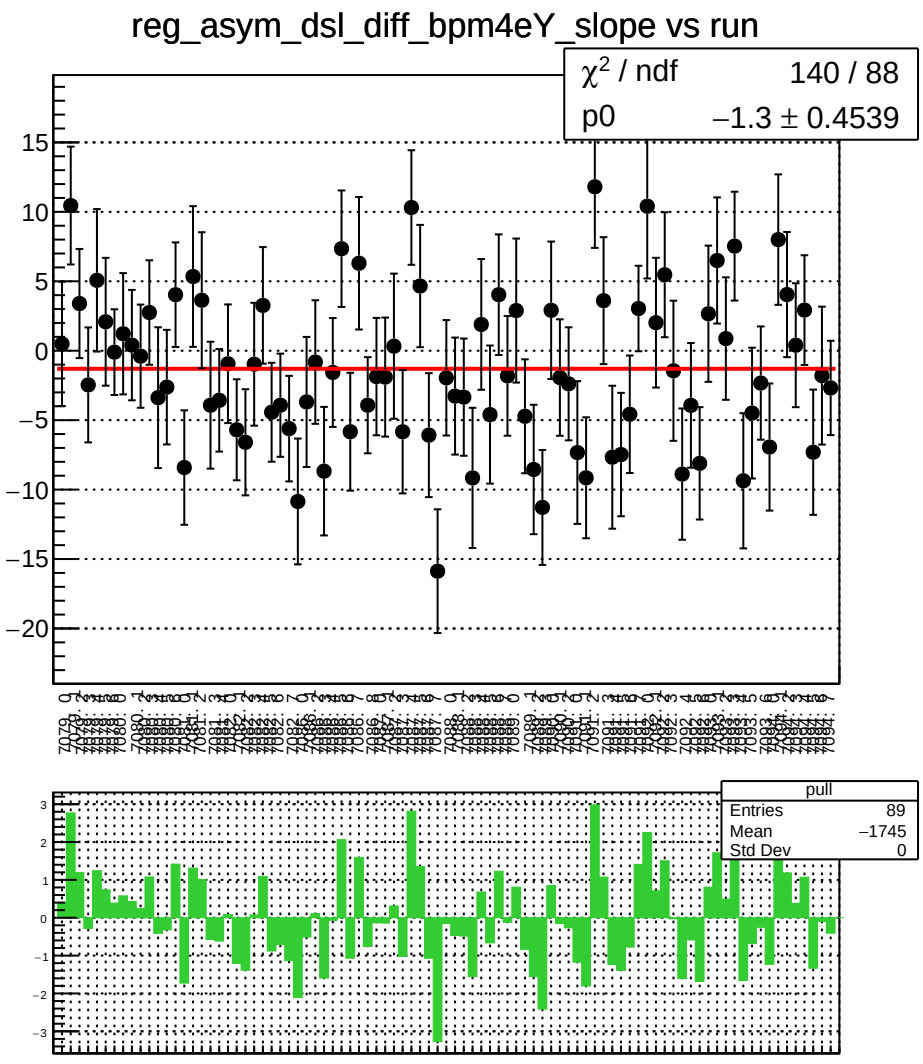

pull1D
Entries 89
Mean −0.0199
Std Dev 1.227

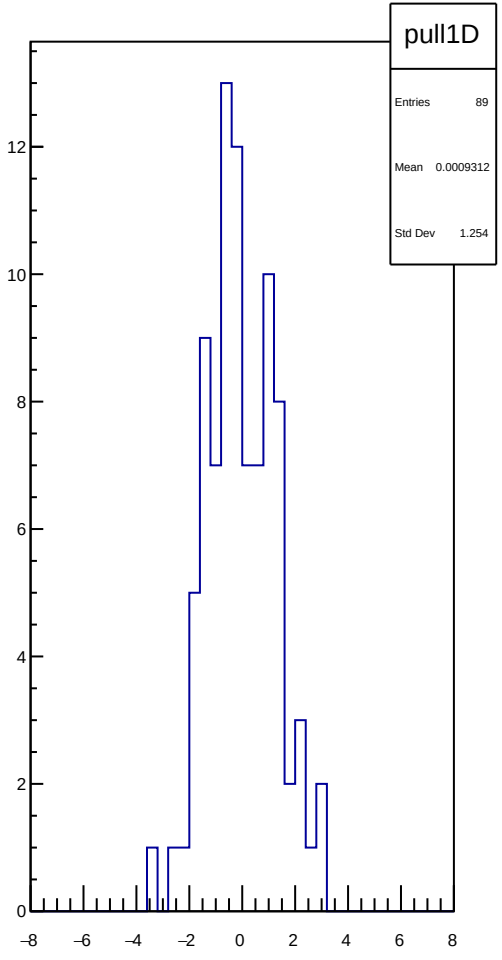

reg_asym_dsl_diff_bpm4aY_slope vs run
χ^2 / ndf 140.6 / 88
p0 1.043 ± 0.4326
pull
Entries 89
Mean −206.6
Std Dev 0

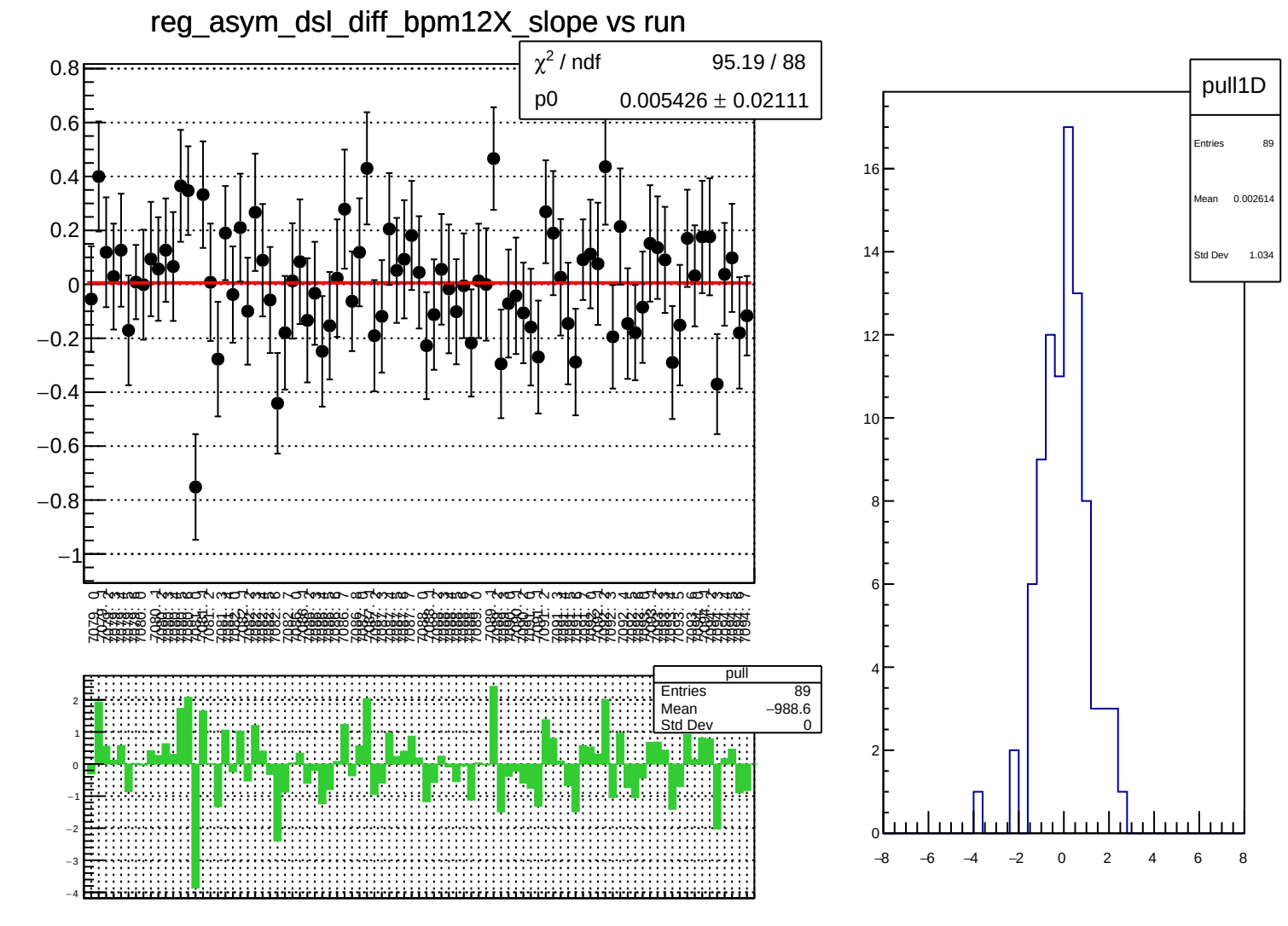

pull1D
Entries 89
Mean −0.007171
Std Dev 1.257

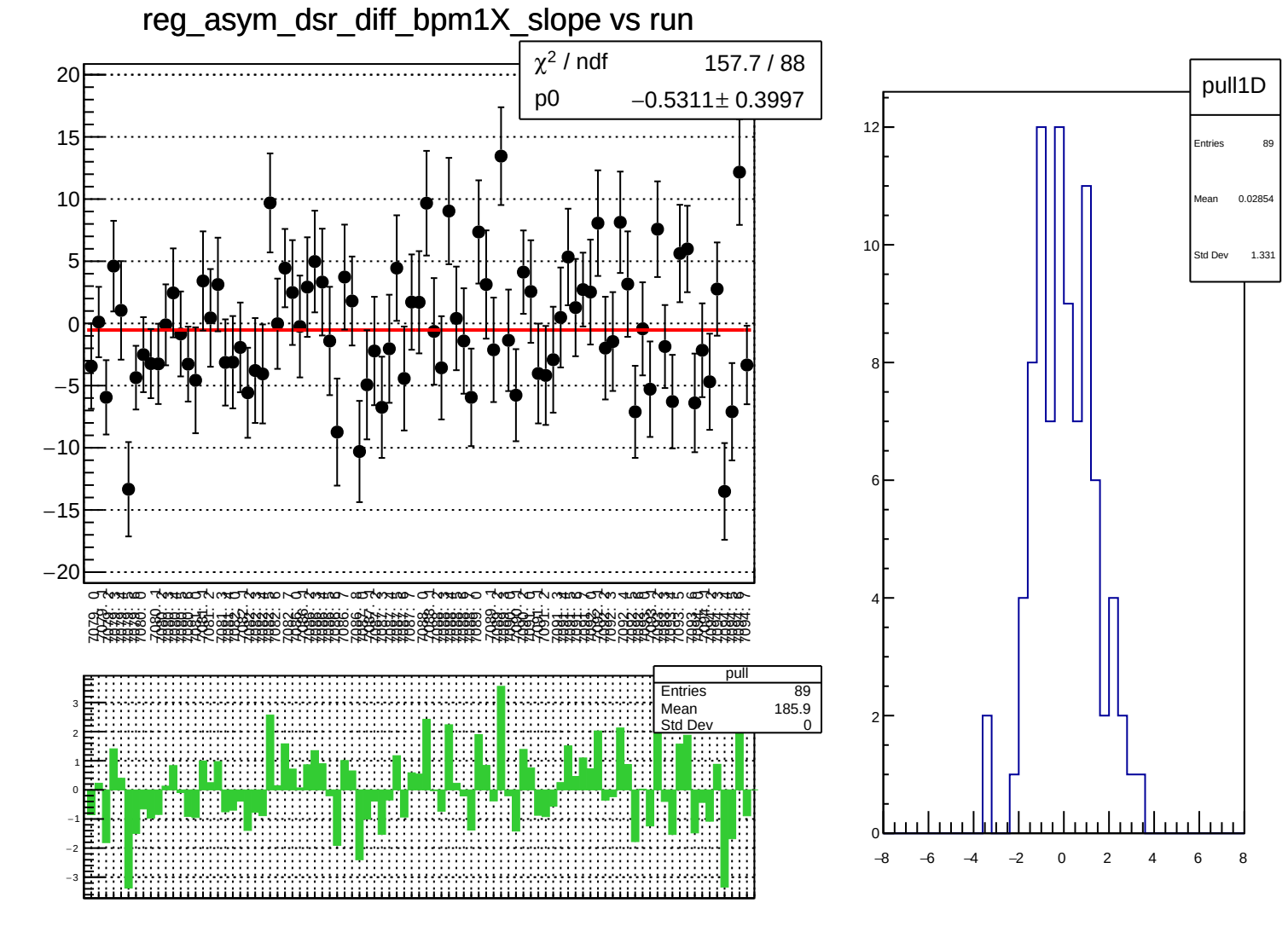

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 125.5 / 88
p0 1.532 ± 0.5826
pull
Entries 89
Mean 172
Std Dev 0

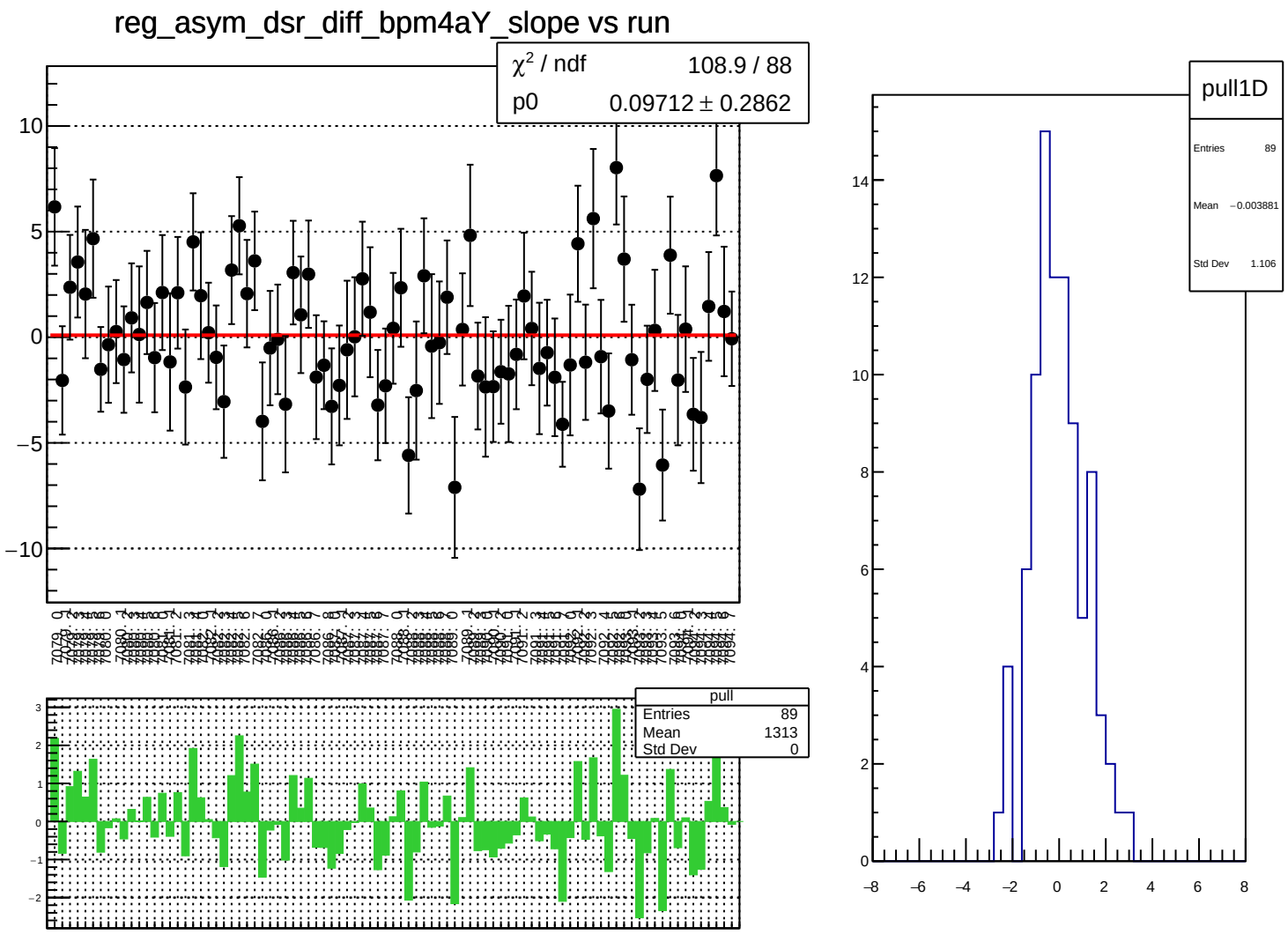

pull1D
Entries 89
Mean 0.01671
Std Dev 1.187

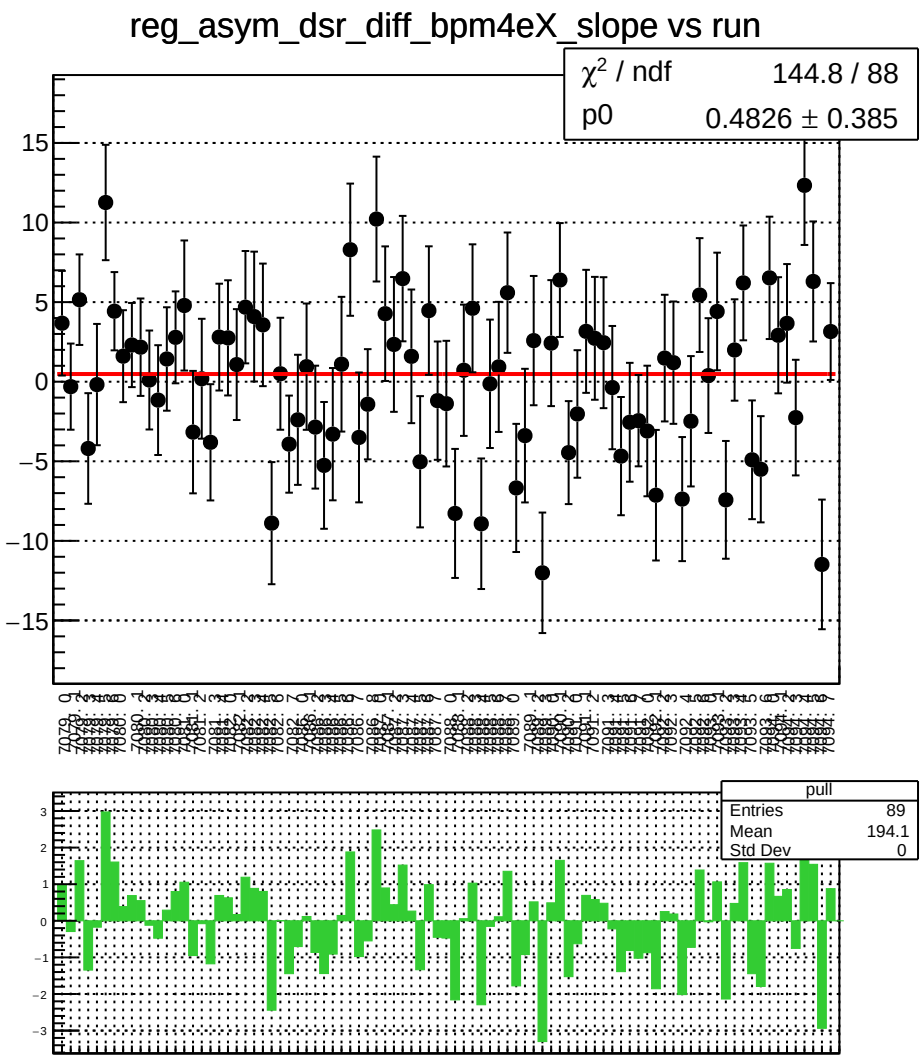

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 140 / 88
p0 −1.3 ± 0.4539
pull
Entries 89
Mean −1745
Std Dev 0

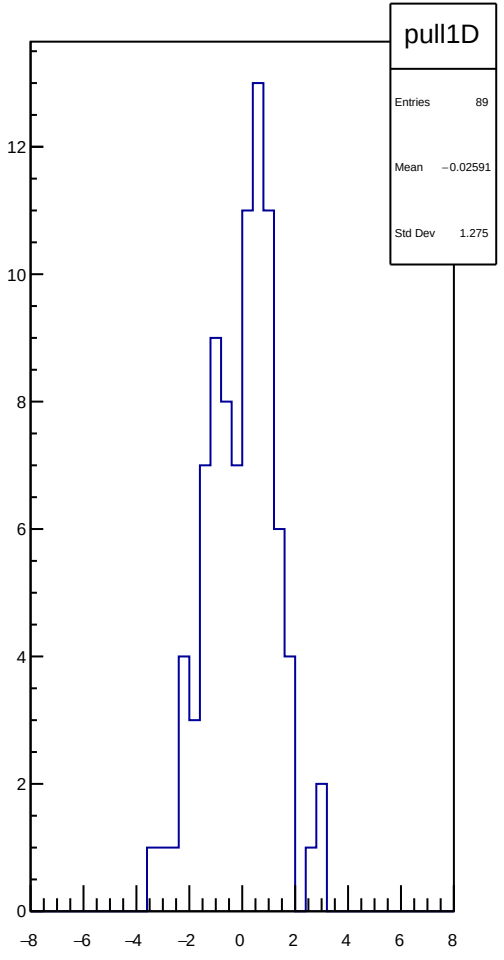

pull1D
Entries 89
Mean 0.0009312
Std Dev 1.254

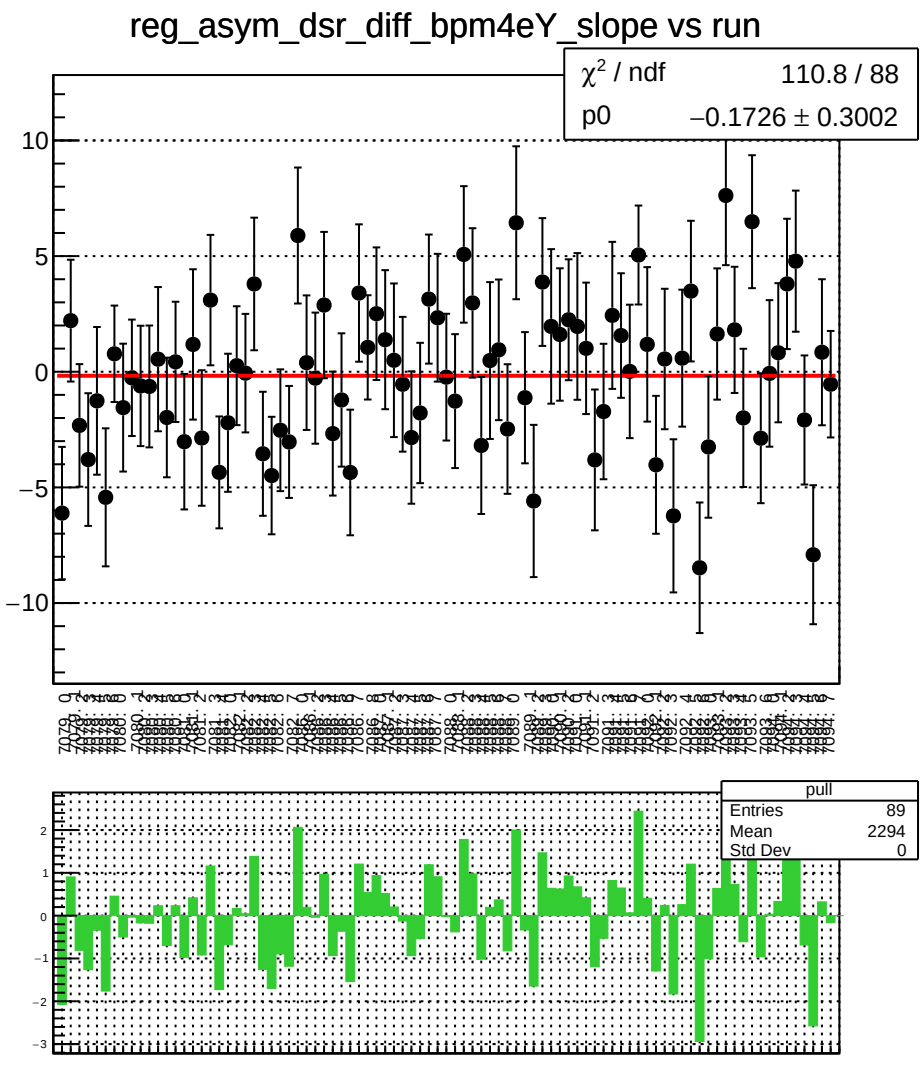

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 95.19 / 88
p0 0.005426 ± 0.02111
pull
Entries 89
Mean −988.6
Std Dev 0
pull1D
Entries 89
Mean 0.002614
Std Dev 1.034

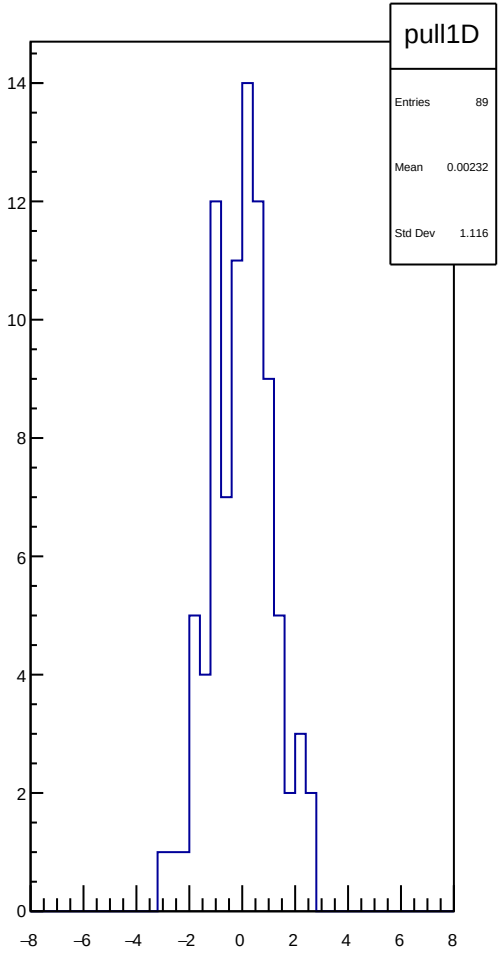

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 157.7 / 88
p0 −0.5311± 0.3997
pull
Entries 89
Mean 185.9
Std Dev 0
pull1D
Entries 89
Mean 0.02854
Std Dev 1.331

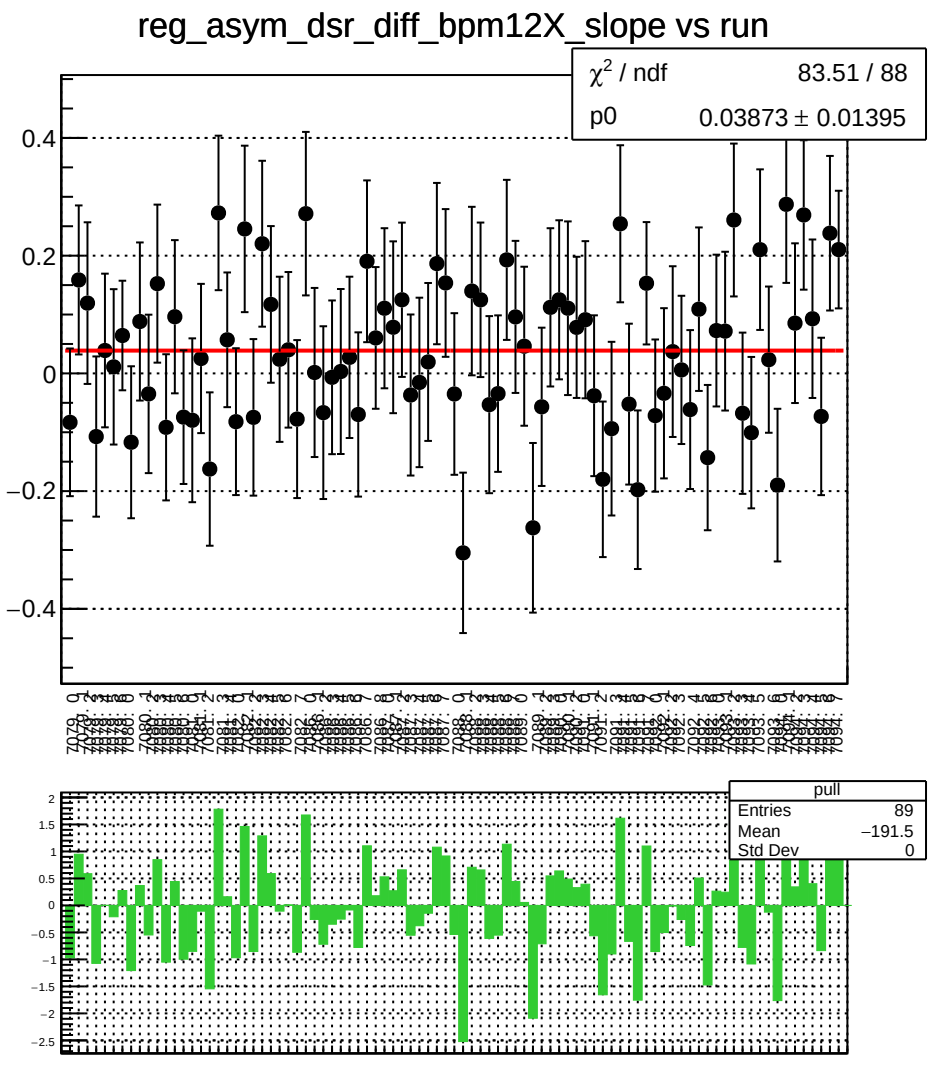

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 108.9 / 88
p0 0.09712 ± 0.2862
pull
Entries 89
Mean 1313
Std Dev 0
pull1D
Entries 89
Mean −0.003881
Std Dev 1.106

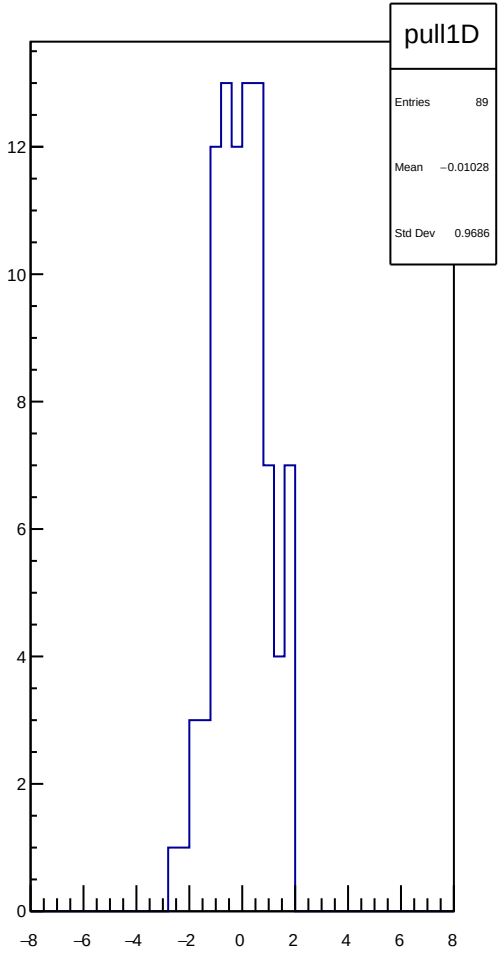

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 144.8 / 88
p0 0.4826 ± 0.385
pull
Entries 89
Mean 194.1
Std Dev 0

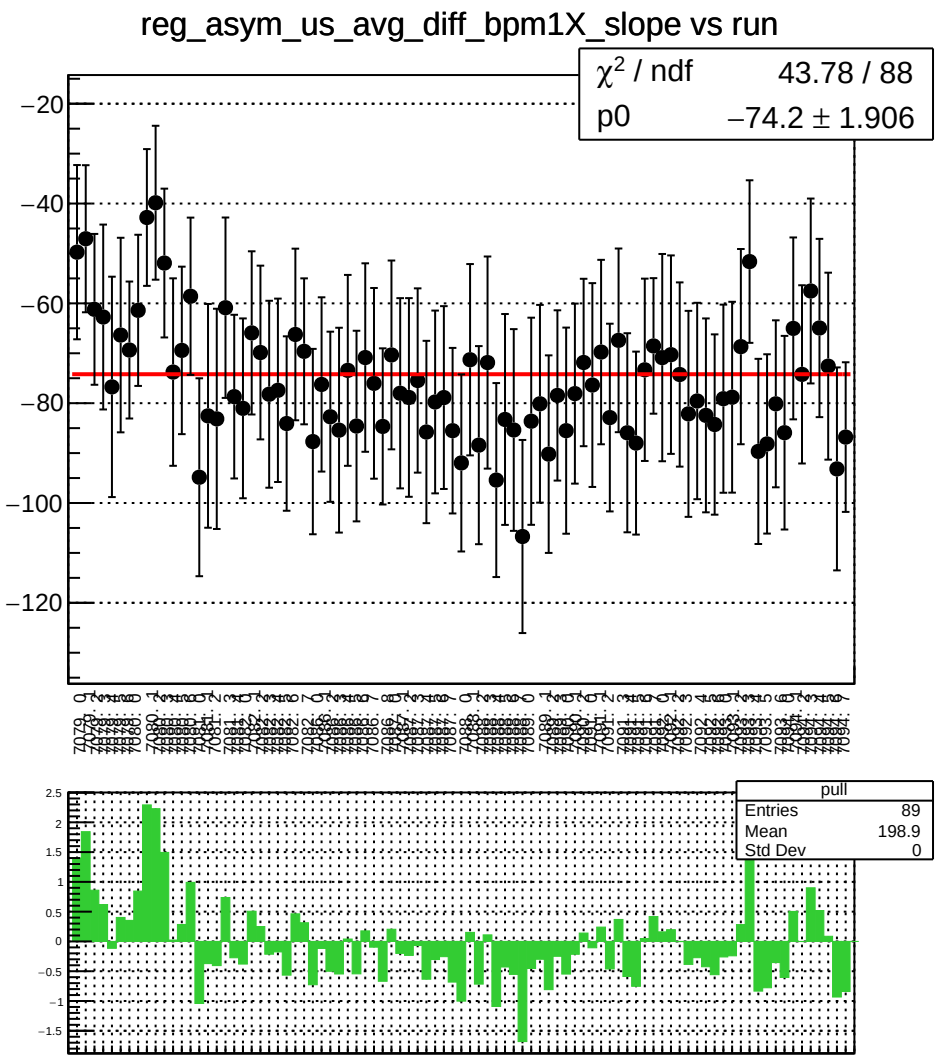

pull1D
Entries 89
Mean −0.02591
Std Dev 1.275

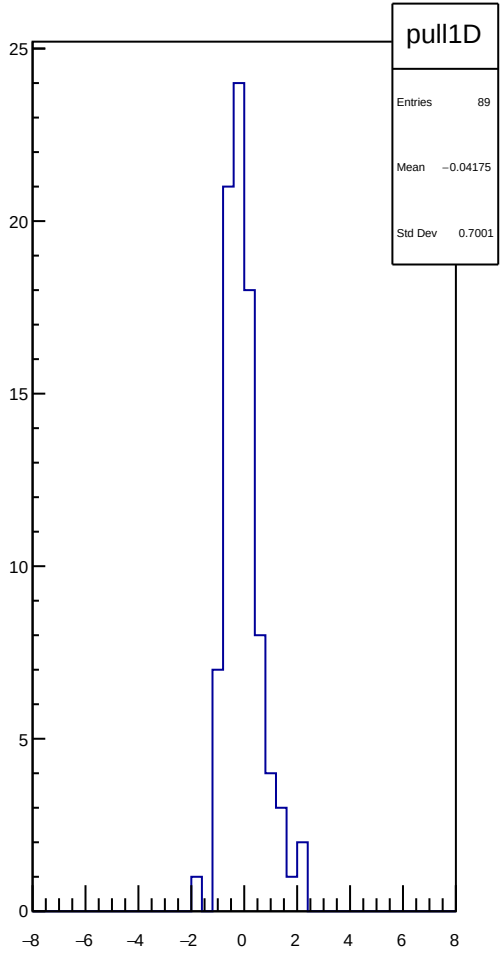

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 110.8 / 88
p0 −0.1726 ± 0.3002
pull
Entries 89
Mean 2294
Std Dev 0

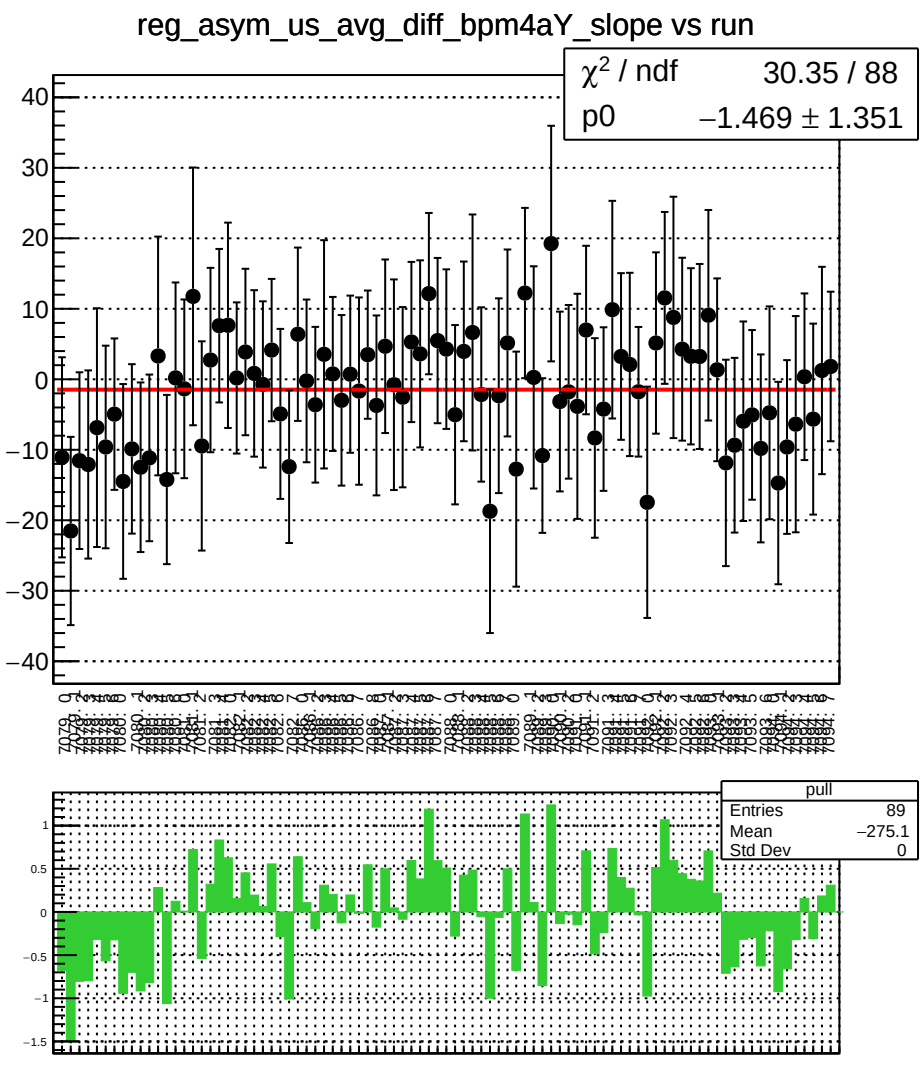

pull1D
Entries 89
Mean 0.00232
Std Dev 1.116

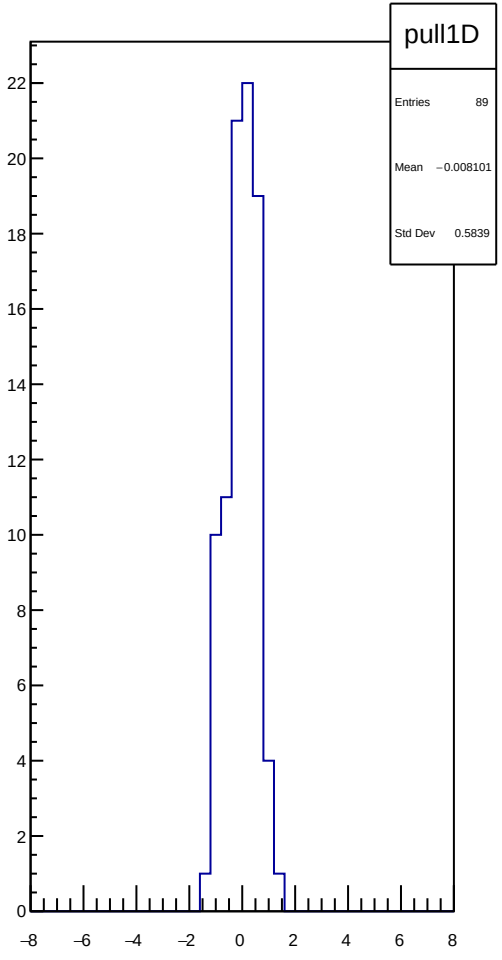

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 83.51 / 88
p0 0.03873 ± 0.01395
pull
Entries 89
Mean −191.5
Std Dev 0

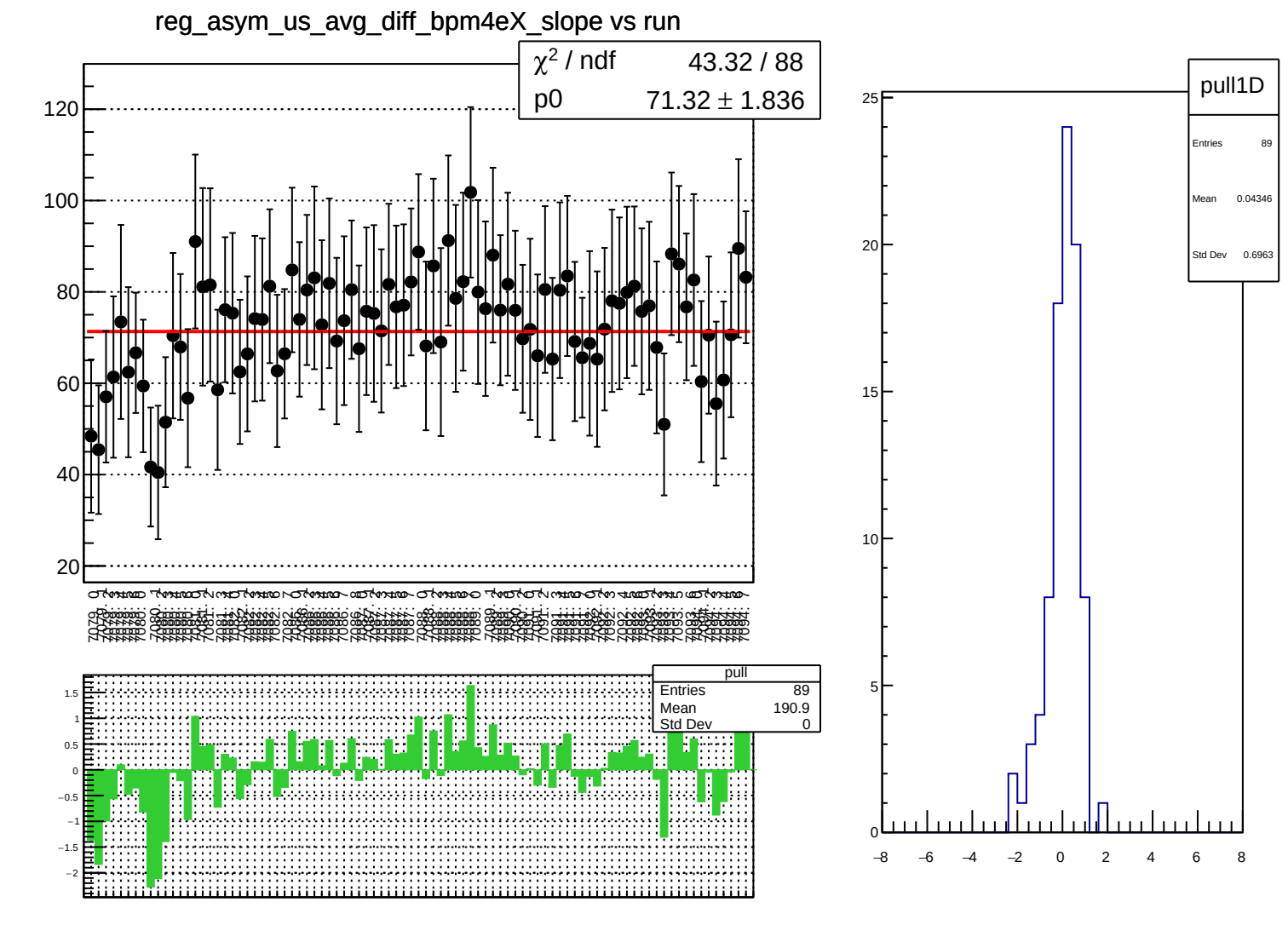

pull1D
Entries 89
Mean −0.01028
Std Dev 0.9686

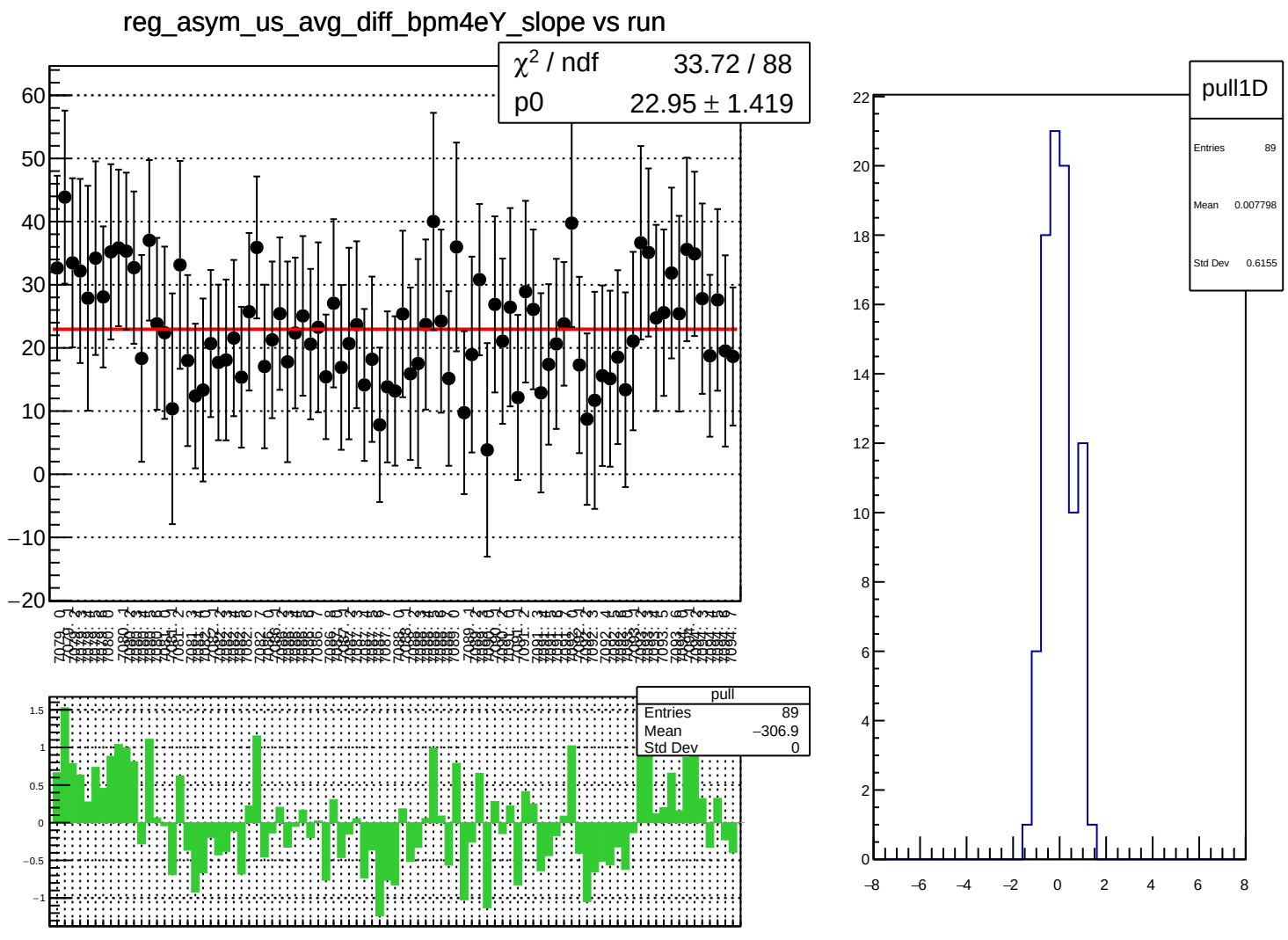

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 43.78 / 88
p0 −74.2 ± 1.906
−20
−40
−60
−80
−100
−120
pull
Entries 89
Mean 198.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

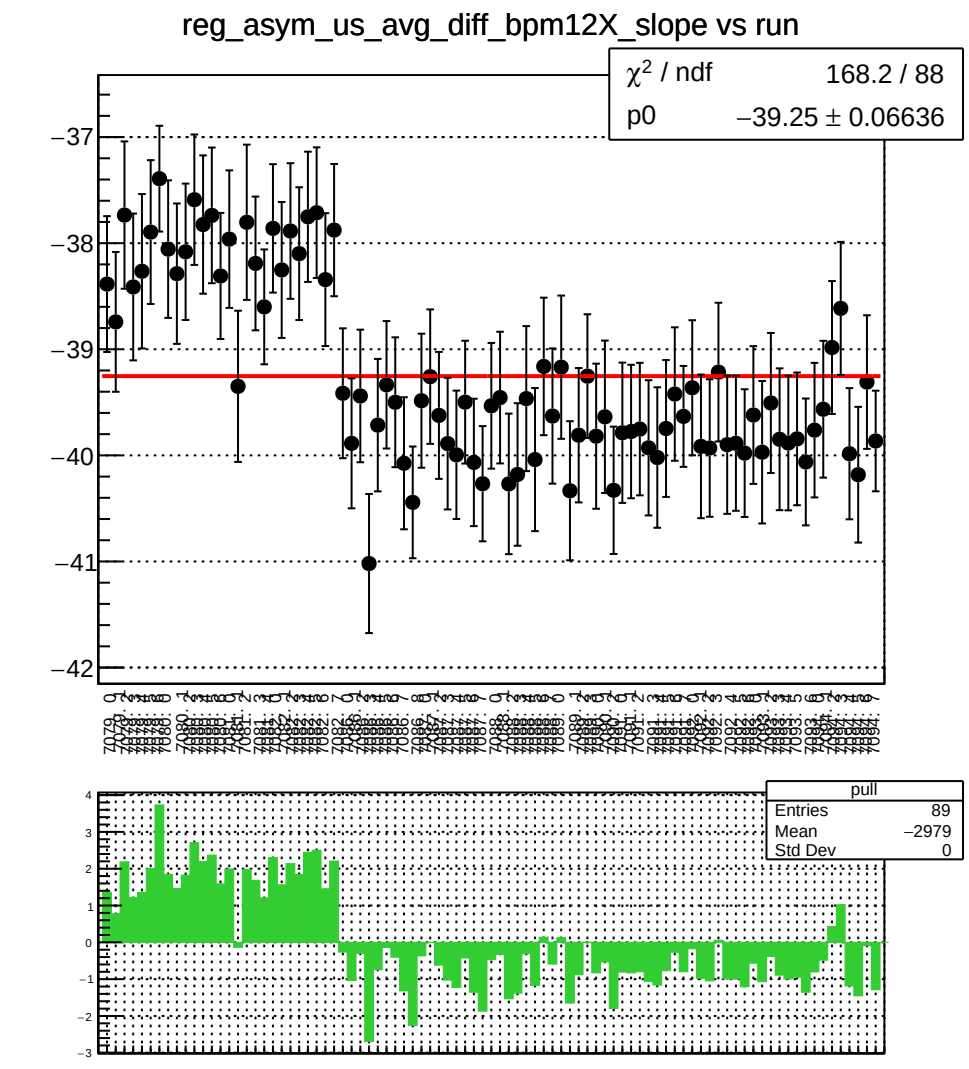

pull1D
Entries 89
Mean −0.04175
Std Dev 0.7001
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

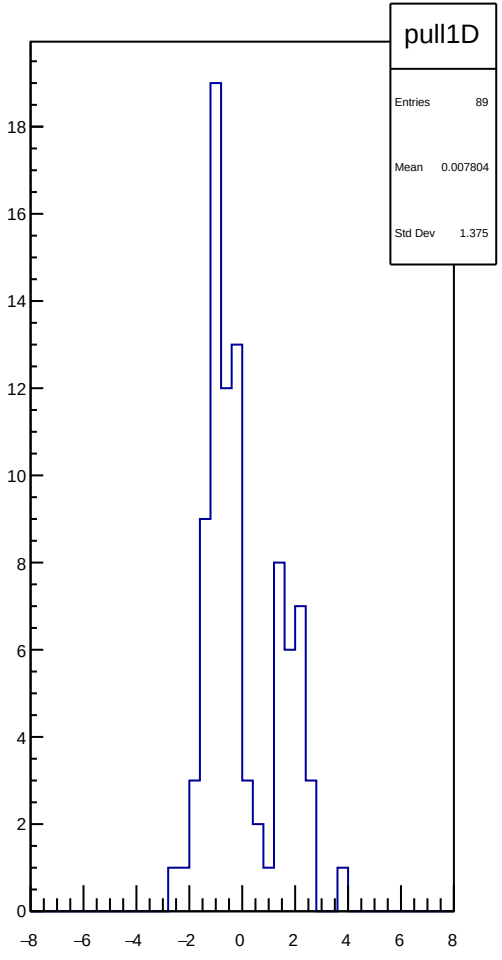

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.35 / 88
p0 −1.469 ± 1.351
pull
Entries 89
Mean −275.1
Std Dev 0

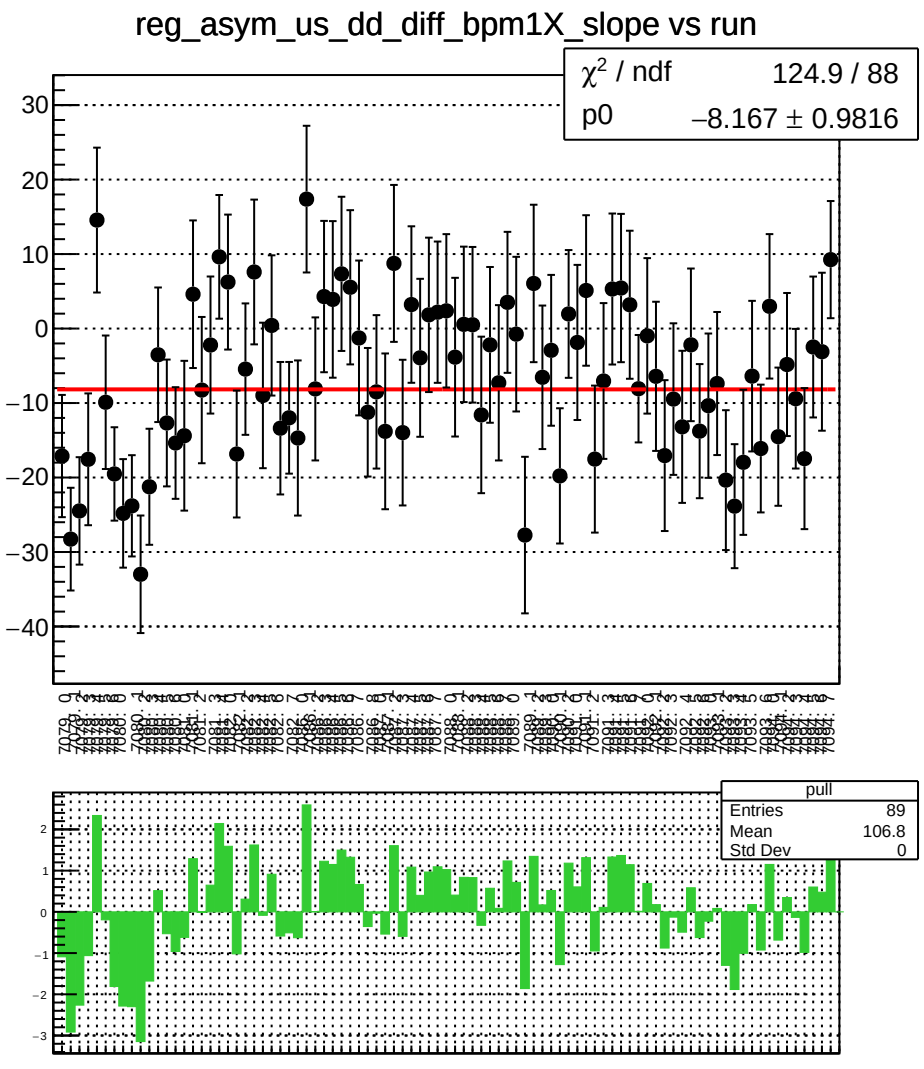

pull1D
Entries 89
Mean −0.008101
Std Dev 0.5839

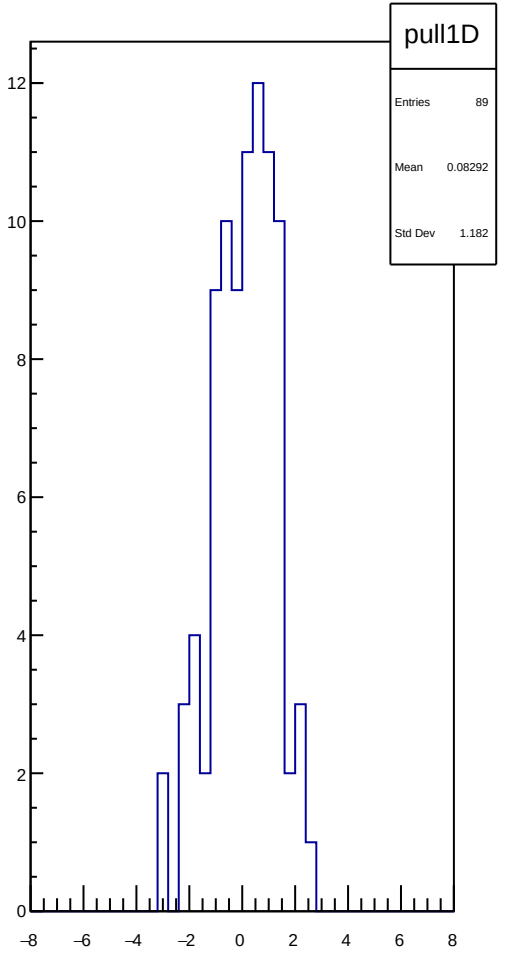

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 43.32 / 88
p0 71.32 ± 1.836
pull
Entries 89
Mean 190.9
Std Dev 0
pull1D
Entries 89
Mean 0.04346
Std Dev 0.6963

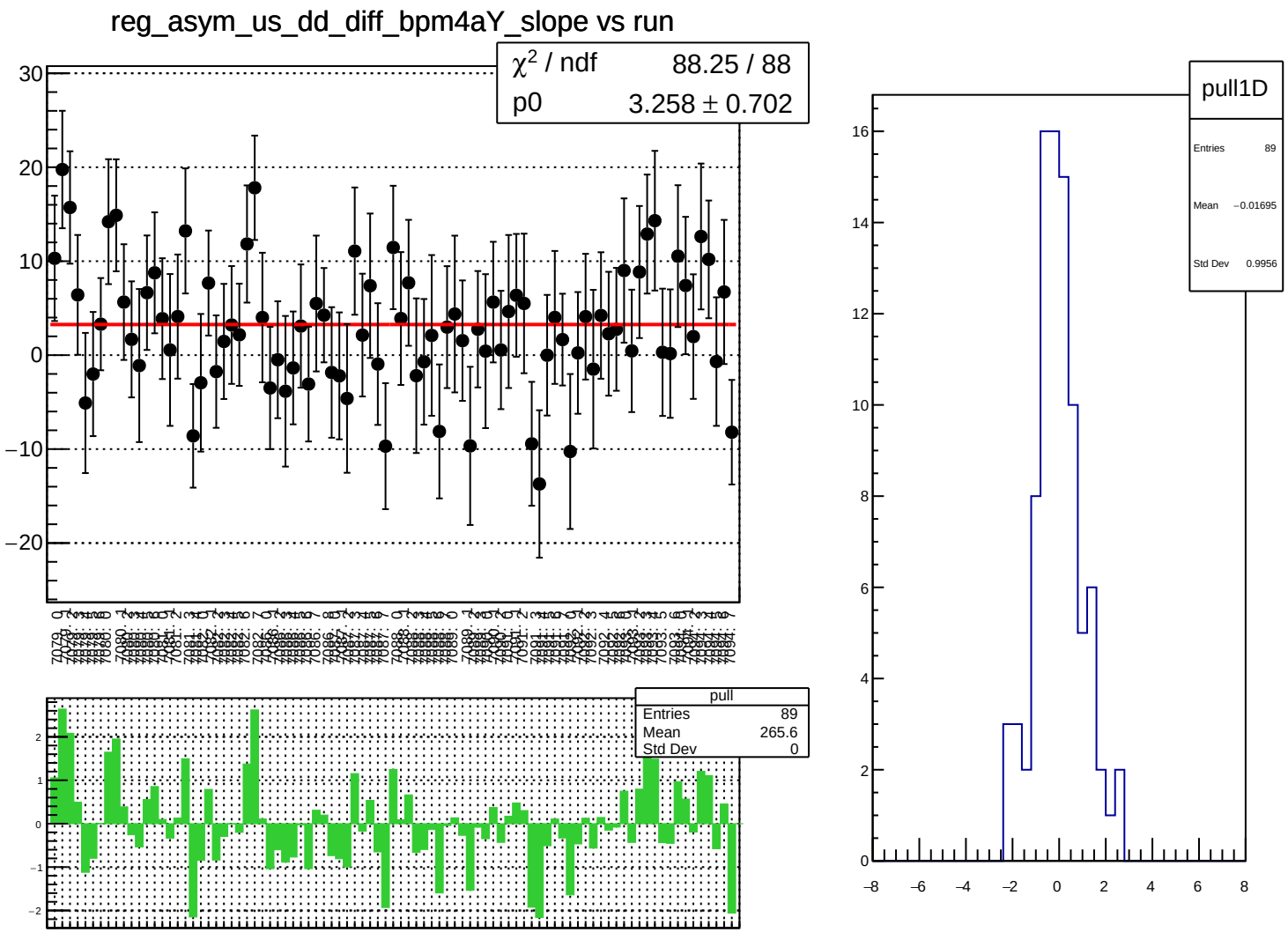

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.72 / 88
p0 22.95 ± 1.419
pull
Entries 89
Mean −306.9
Std Dev 0
pull1D
Entries 89
Mean 0.007798
Std Dev 0.6155

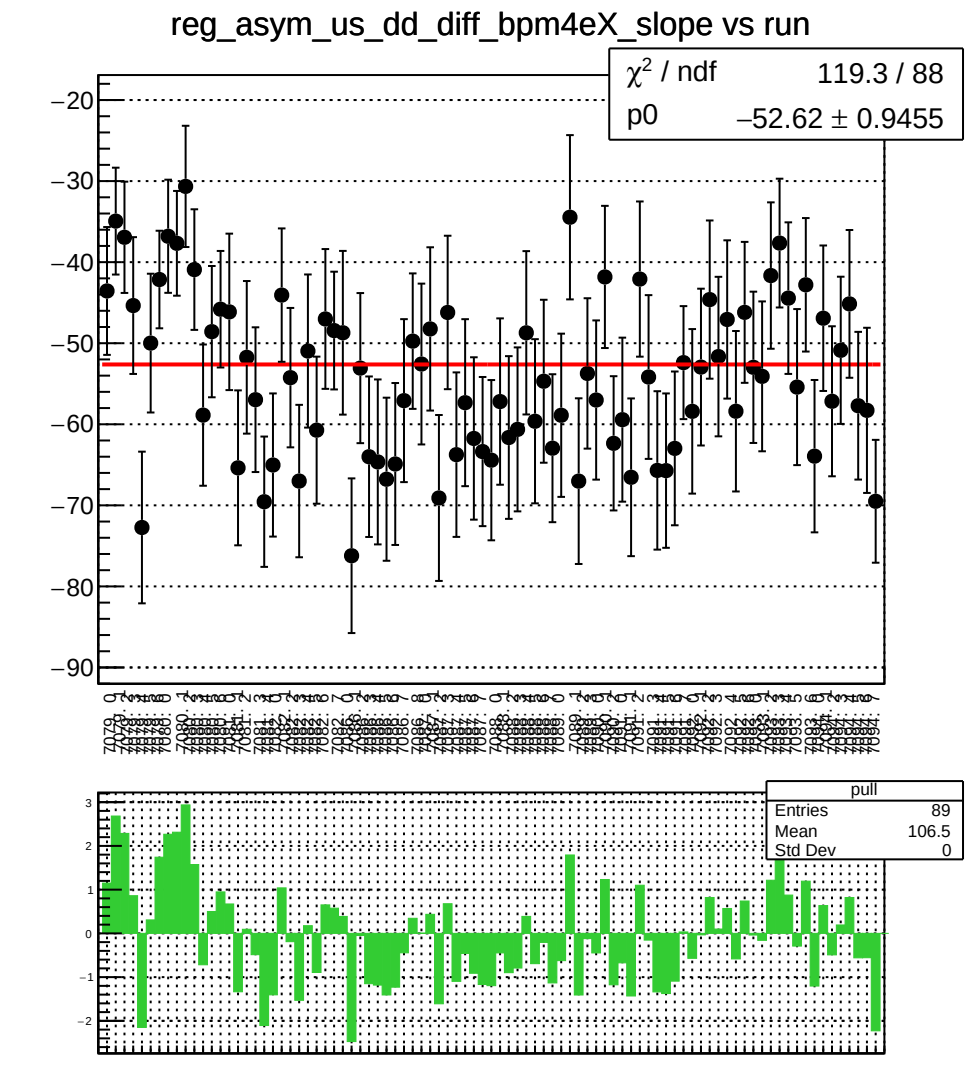

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 168.2 / 88
p0 −39.25 ± 0.06636
pull
Entries 89
Mean −2979
Std Dev 0

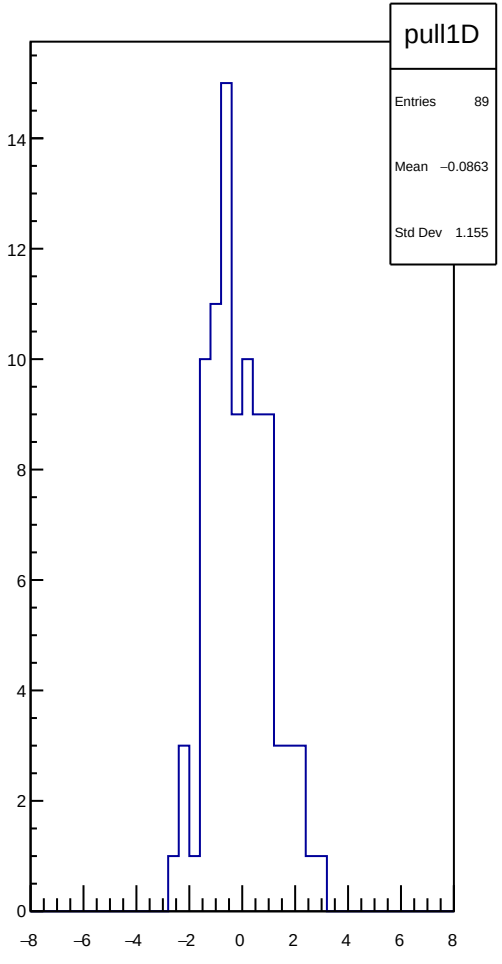

pull1D
Entries 89
Mean 0.007804
Std Dev 1.375

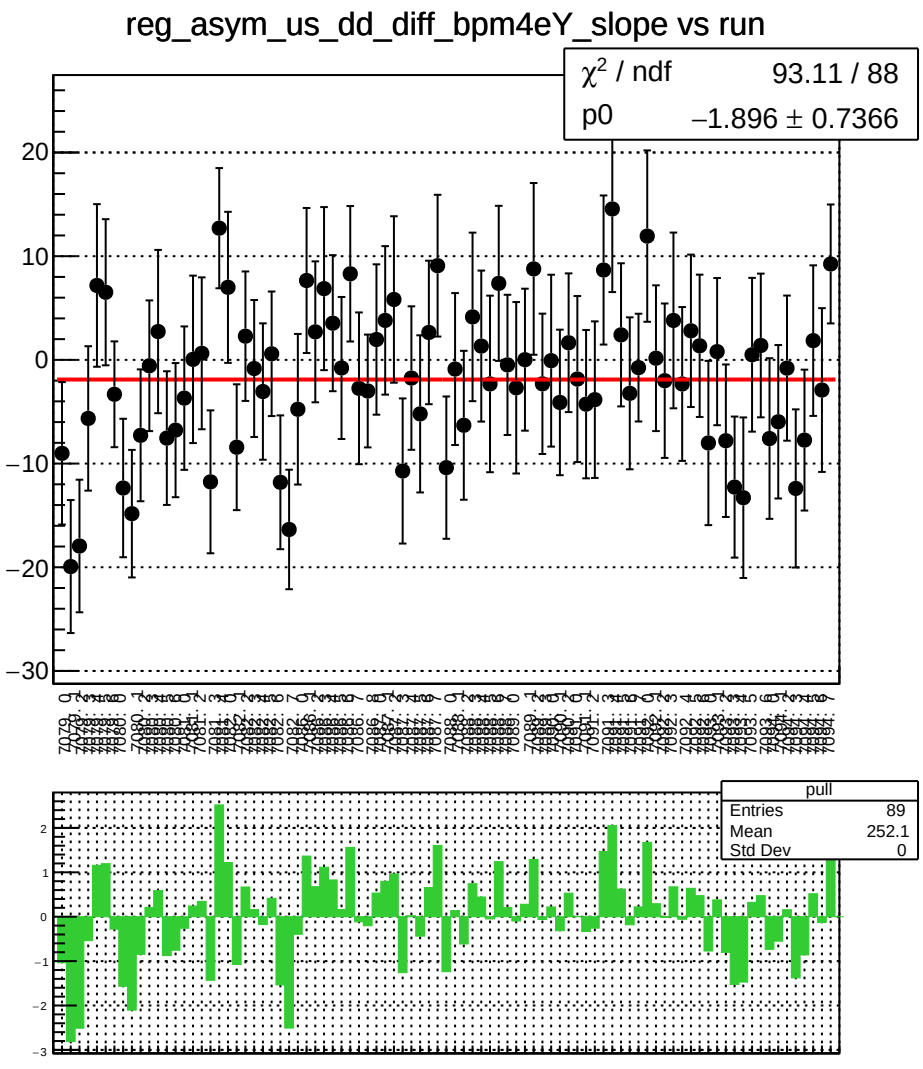

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 124.9 / 88
p0 −8.167 ± 0.9816
pull
Entries 89
Mean 106.8
Std Dev 0

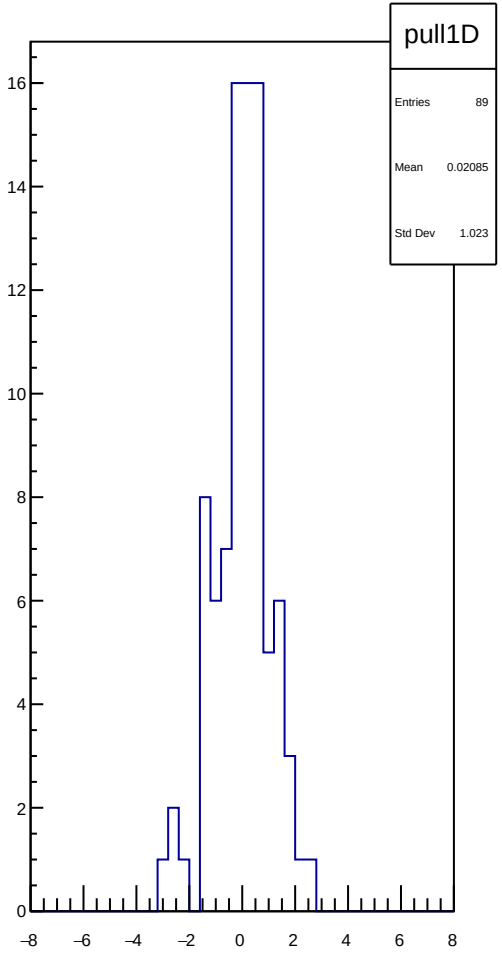

pull1D
Entries 89
Mean 0.08292
Std Dev 1.182

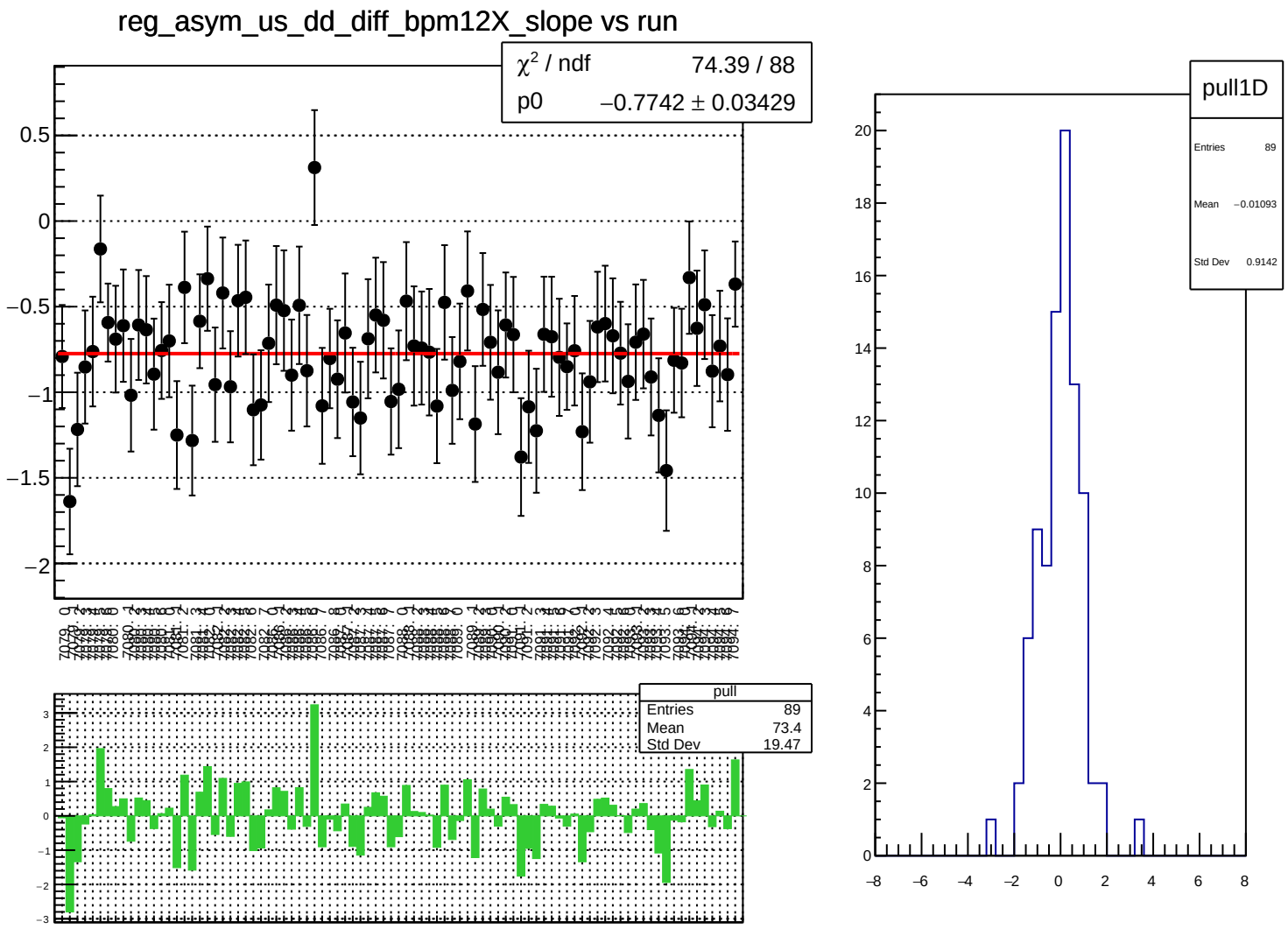

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.25 / 88
p0 3.258 ± 0.702
pull
Entries 89
Mean 265.6
Std Dev 0
pull1D
Entries 89
Mean −0.01695
Std Dev 0.9956

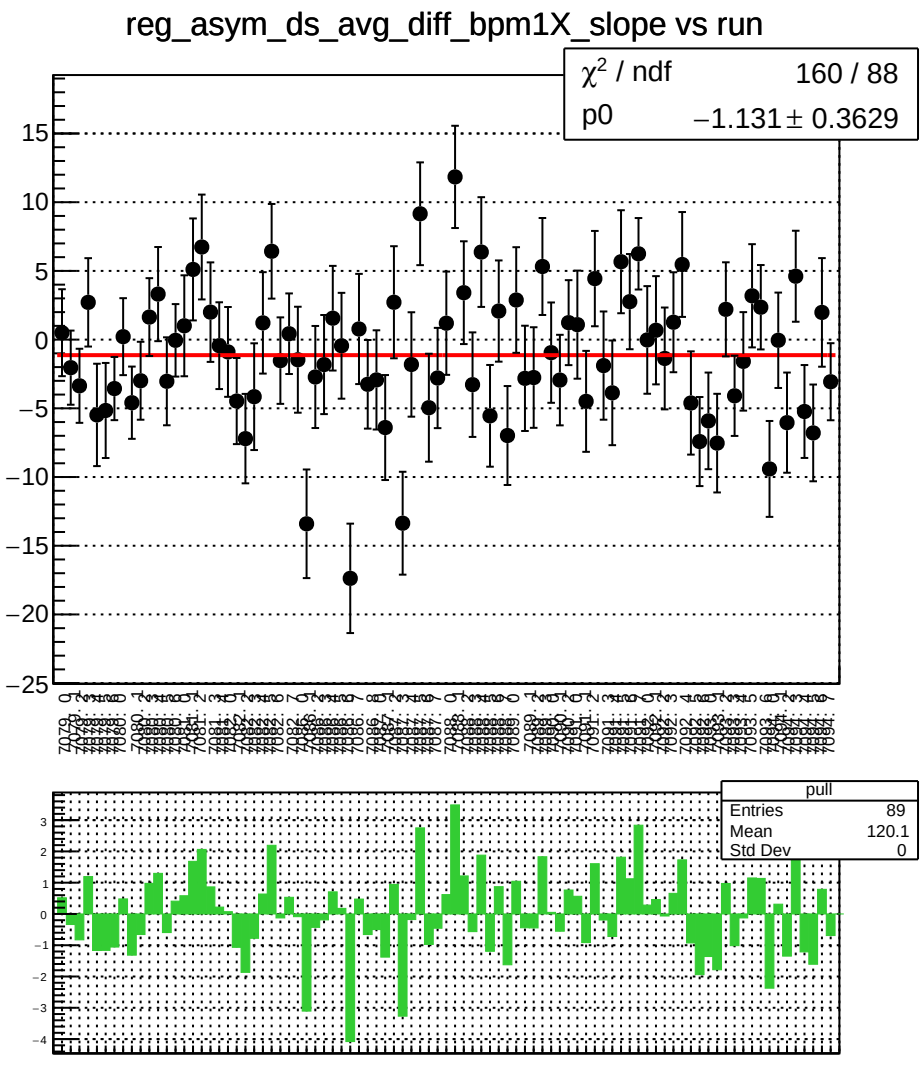

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 119.3 / 88
p0 −52.62 ± 0.9455
pull
Entries 89
Mean 106.5
Std Dev 0

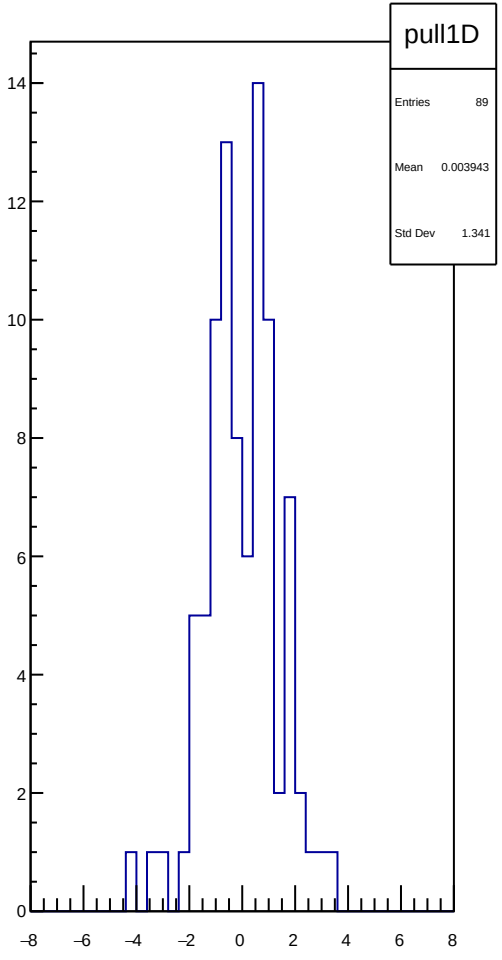

pull1D
Entries 89
Mean −0.0863
Std Dev 1.155

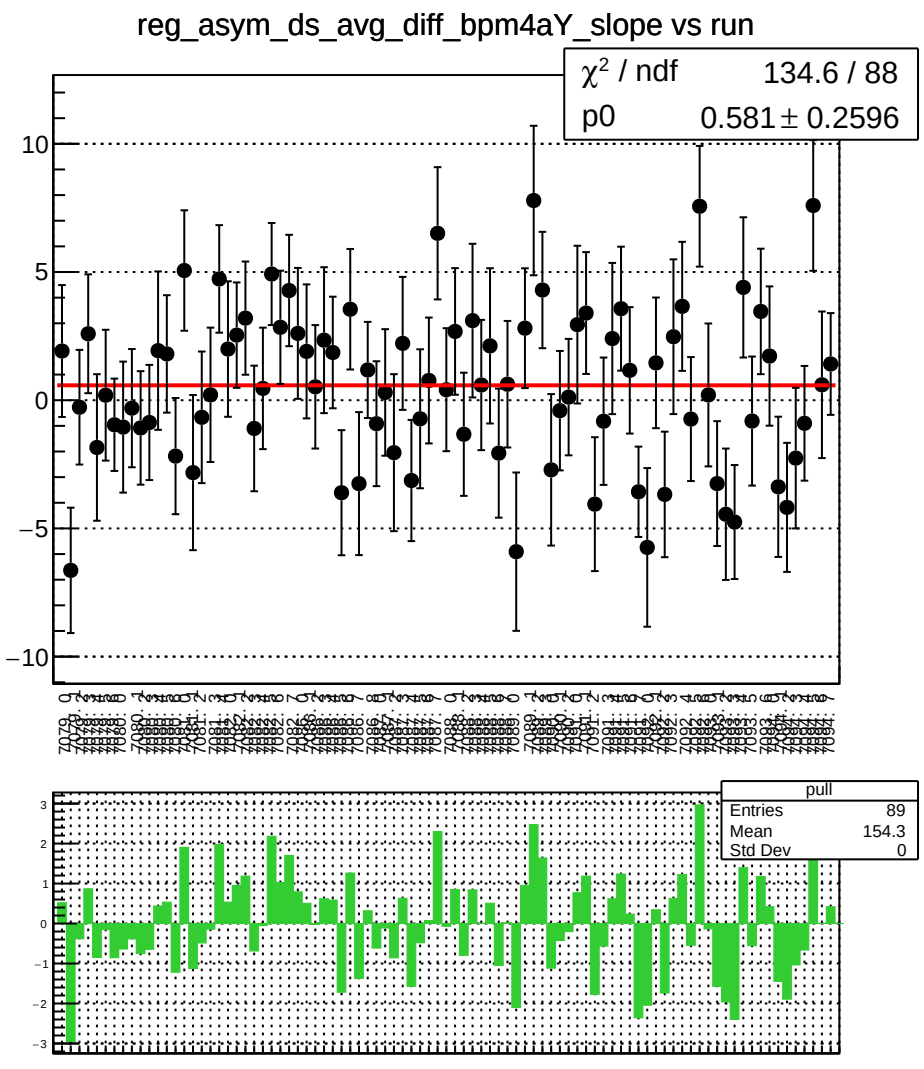

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.11 / 88
p0 −1.896 ± 0.7366
pull
Entries 89
Mean 252.1
Std Dev 0

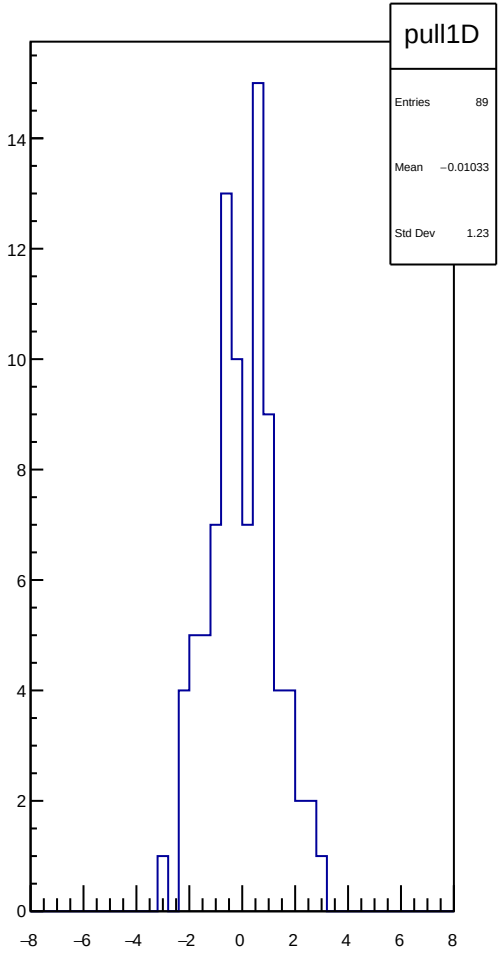

pull1D
Entries 89
Mean 0.02085
Std Dev 1.023

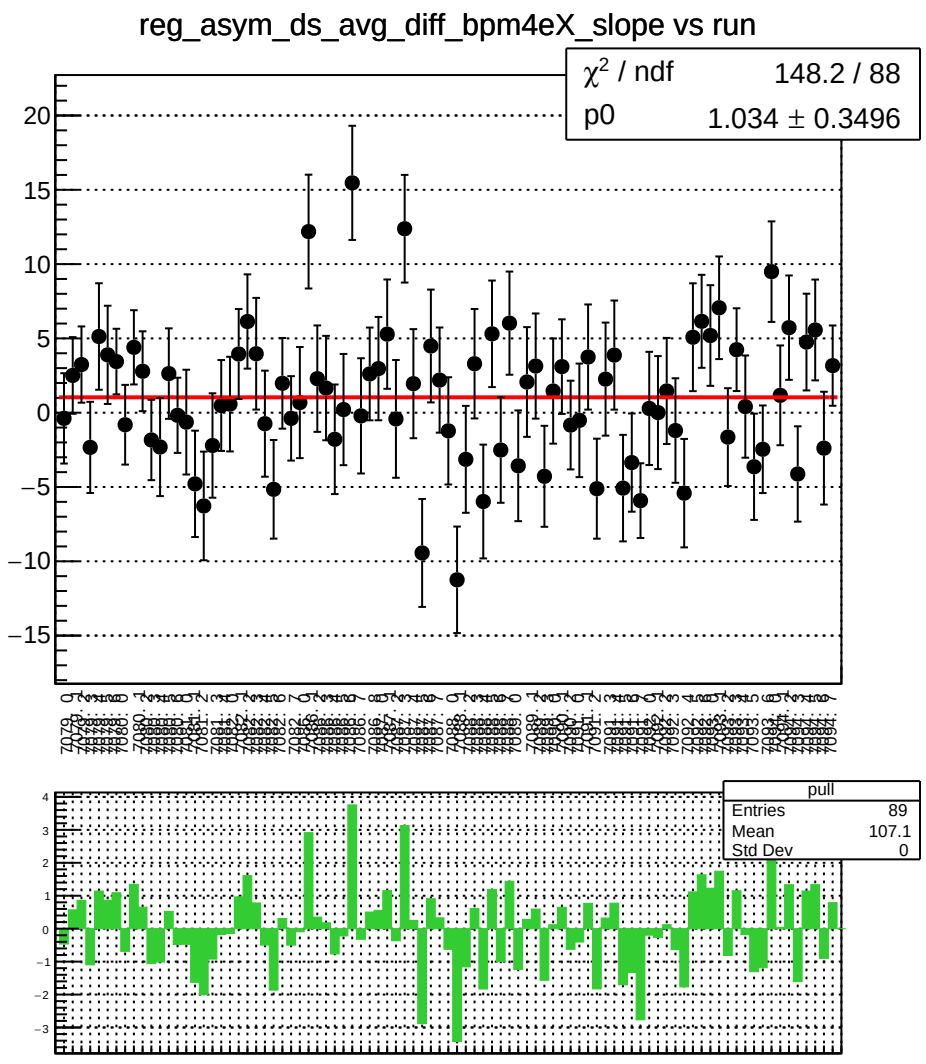

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 74.39 / 88
p0 −0.7742 ± 0.03429
pull
Entries 89
Mean 73.4
Std Dev 19.47
pull1D
Entries 89
Mean −0.01093
Std Dev 0.9142

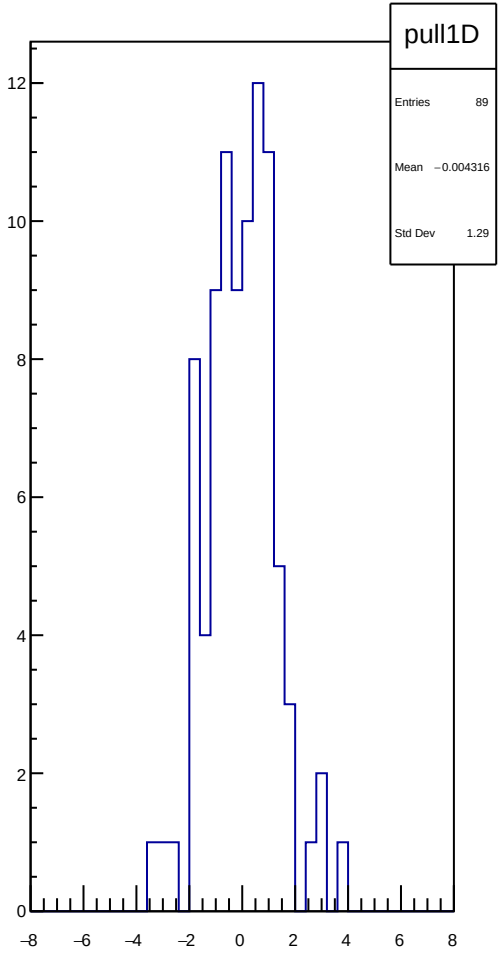

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 160 / 88
p0 −1.131 ± 0.3629
pull
Entries 89
Mean 120.1
Std Dev 0

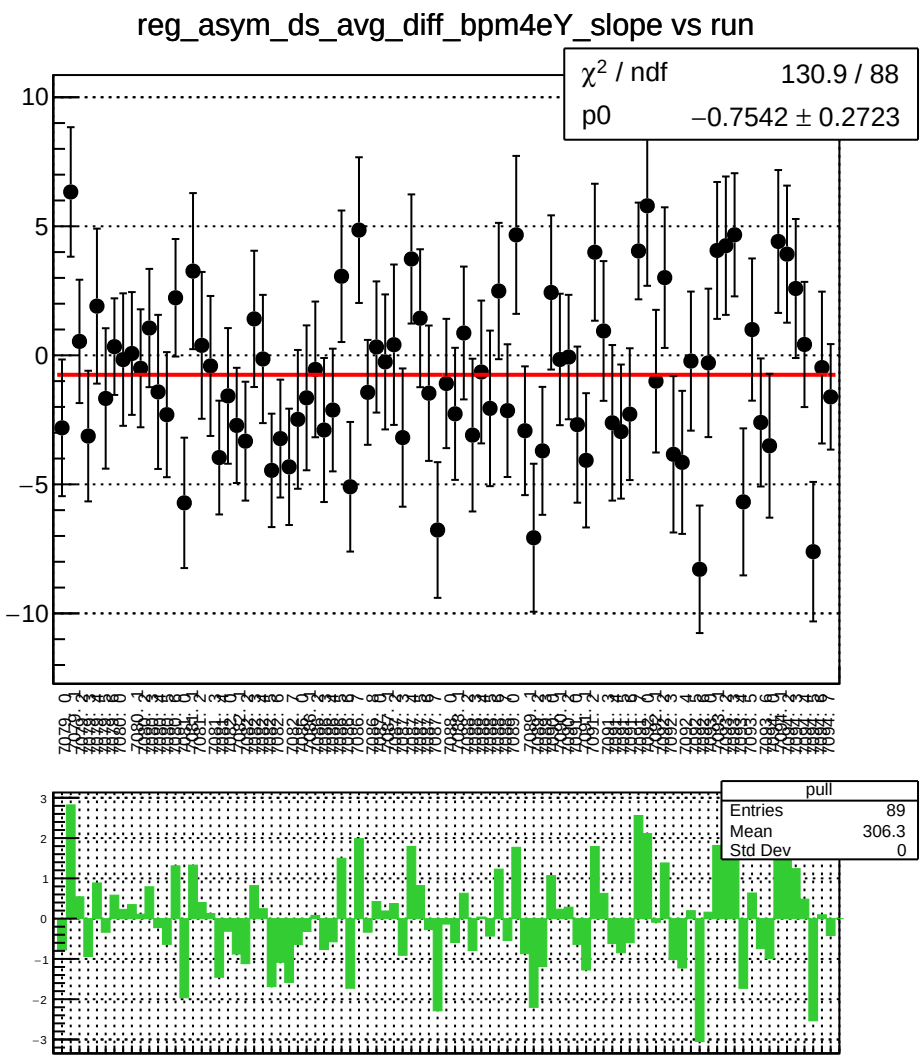

pull1D
Entries 89
Mean 0.003943
Std Dev 1.341

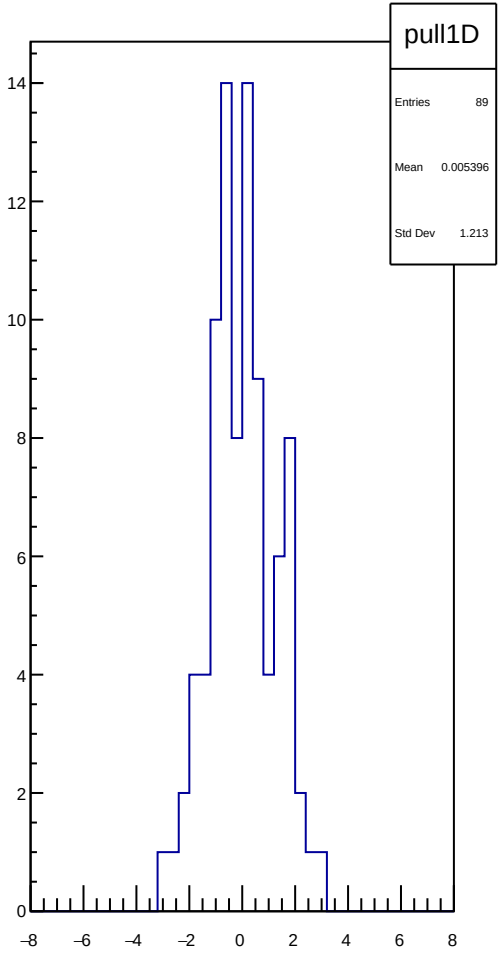

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 134.6 / 88
p0 0.581 ± 0.2596
pull
Entries 89
Mean 154.3
Std Dev 0

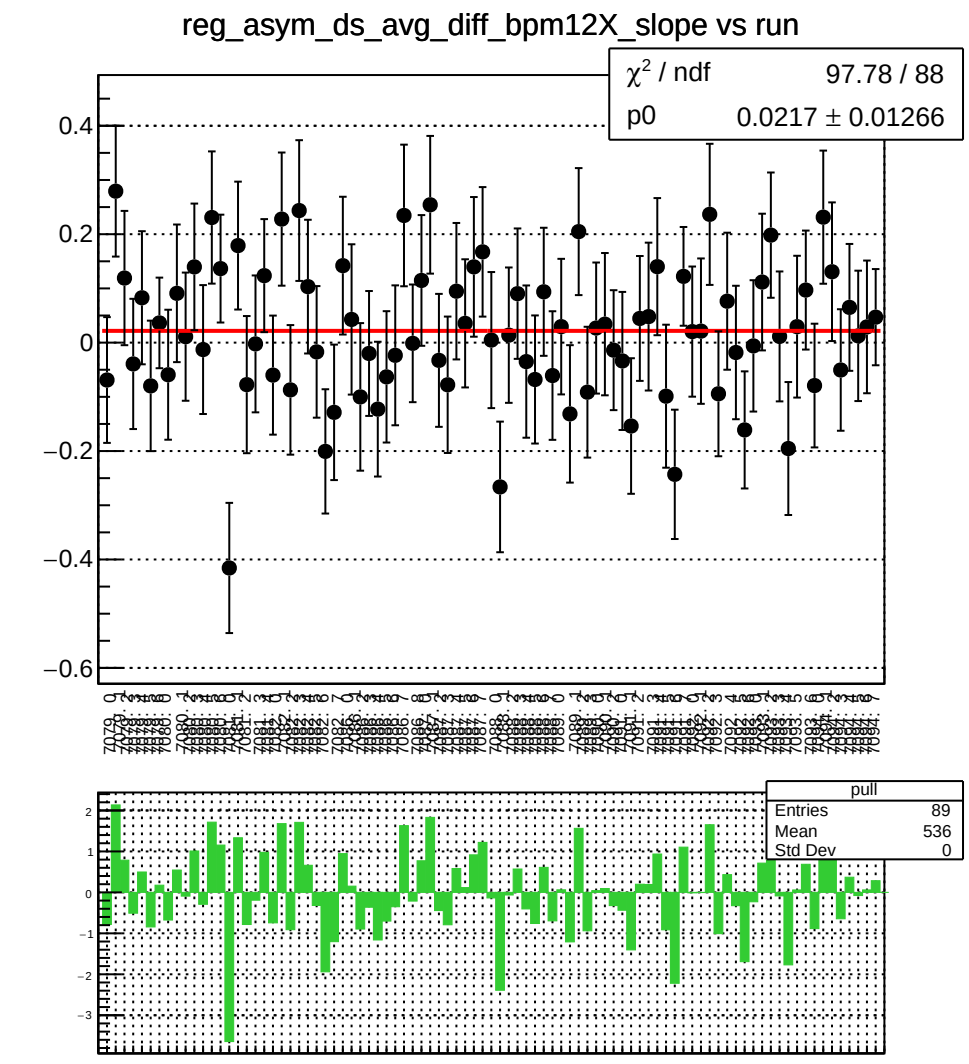

pull1D
Entries 89
Mean −0.01033
Std Dev 1.23

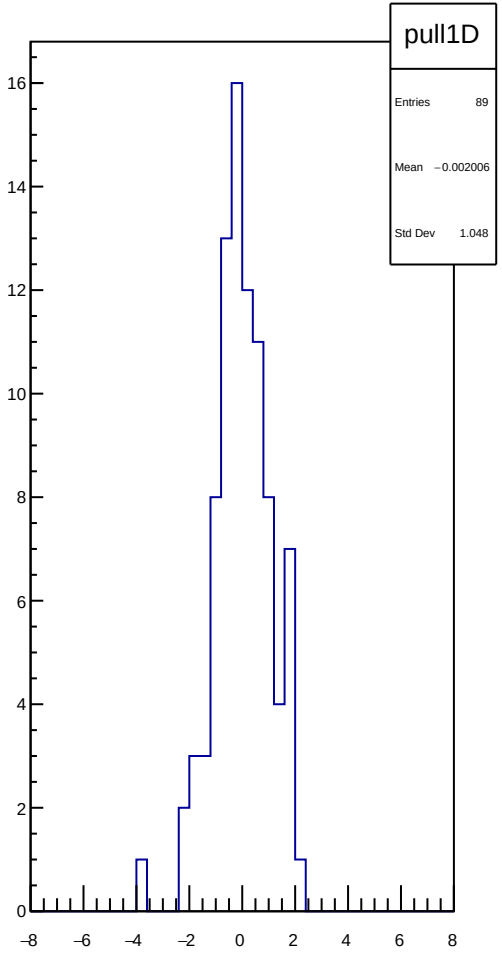

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 148.2 / 88
p0 1.034 ± 0.3496
pull
Entries 89
Mean 107.1
Std Dev 0

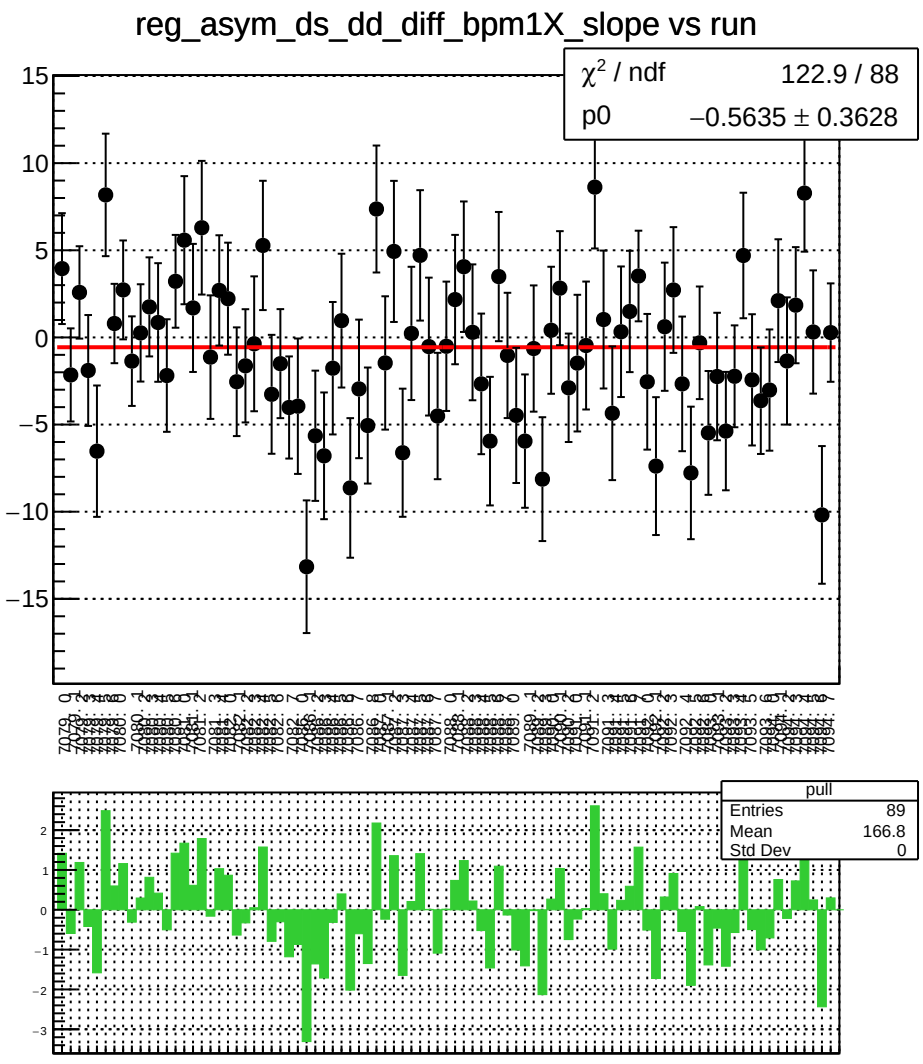

pull1D
Entries 89
Mean −0.004316
Std Dev 1.29

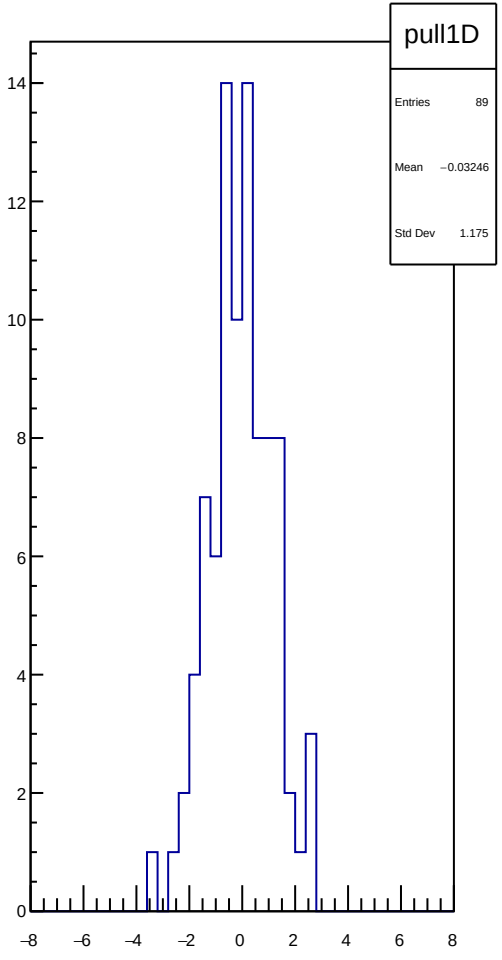

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 130.9 / 88
p0 −0.7542 ± 0.2723
pull
Entries 89
Mean 306.3
Std Dev 0

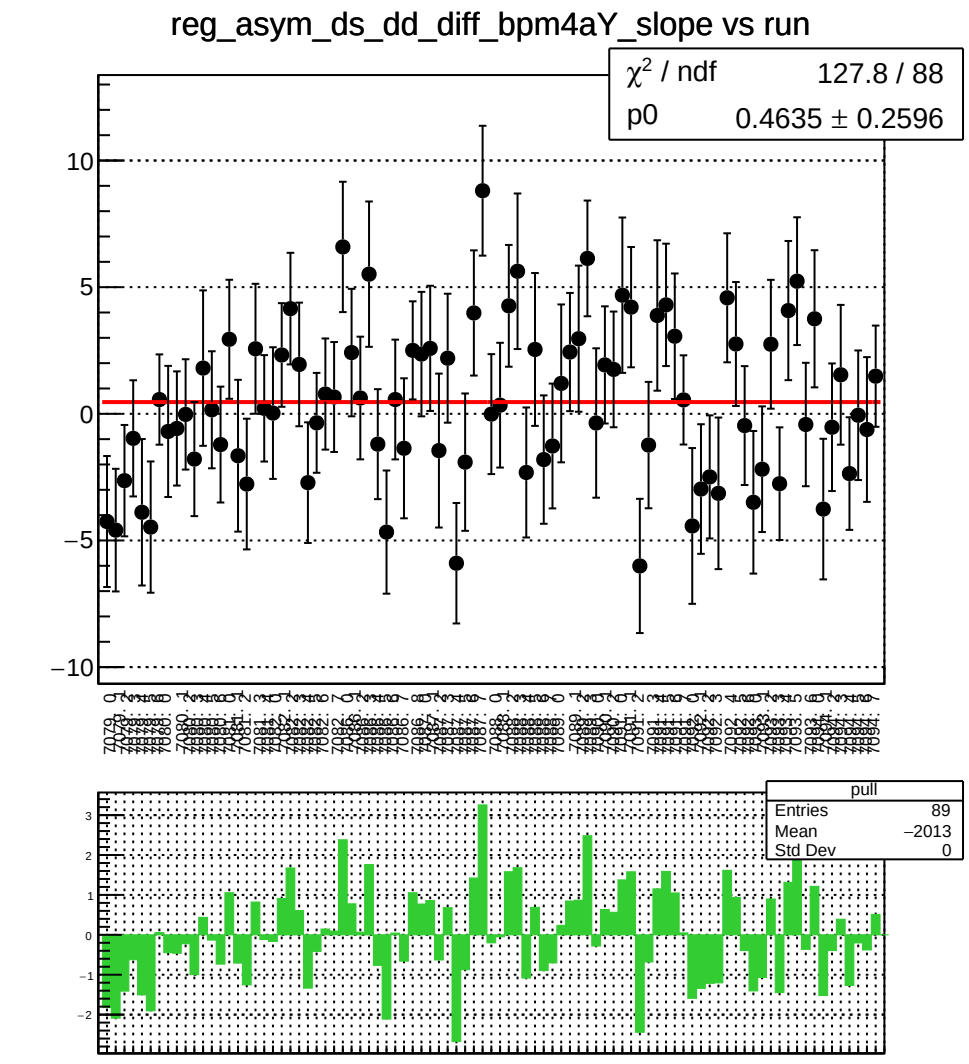

pull1D
Entries 89
Mean 0.005396
Std Dev 1.213

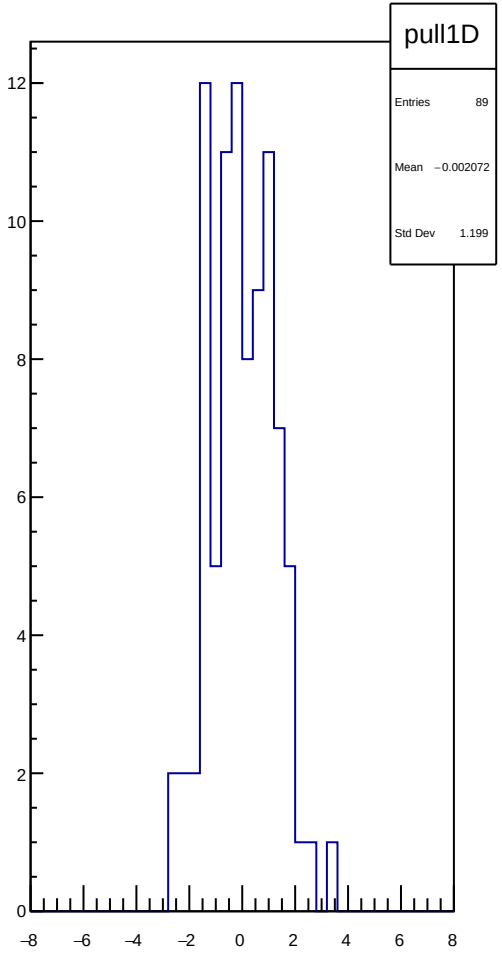

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 97.78 / 88
p0 0.0217 ± 0.01266
pull
Entries 89
Mean 536
Std Dev 0

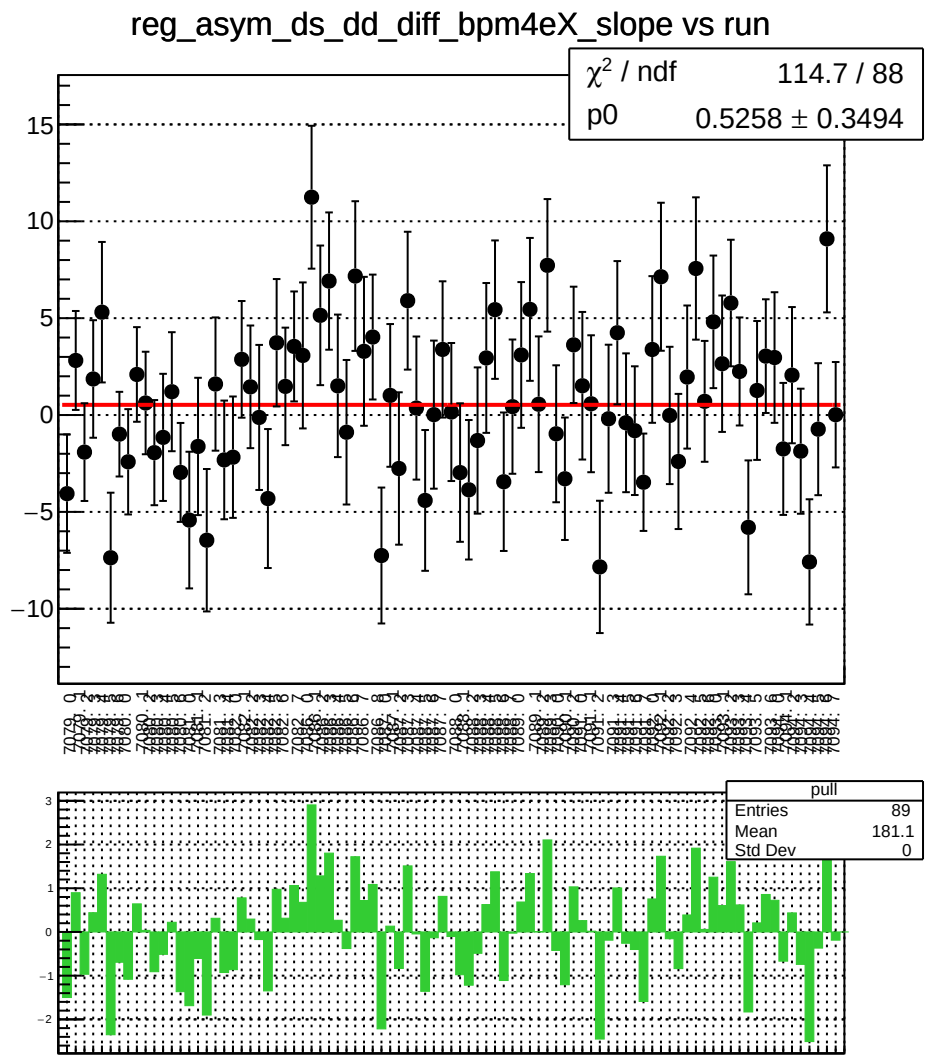

pull1D
Entries 89
Mean −0.002006
Std Dev 1.048

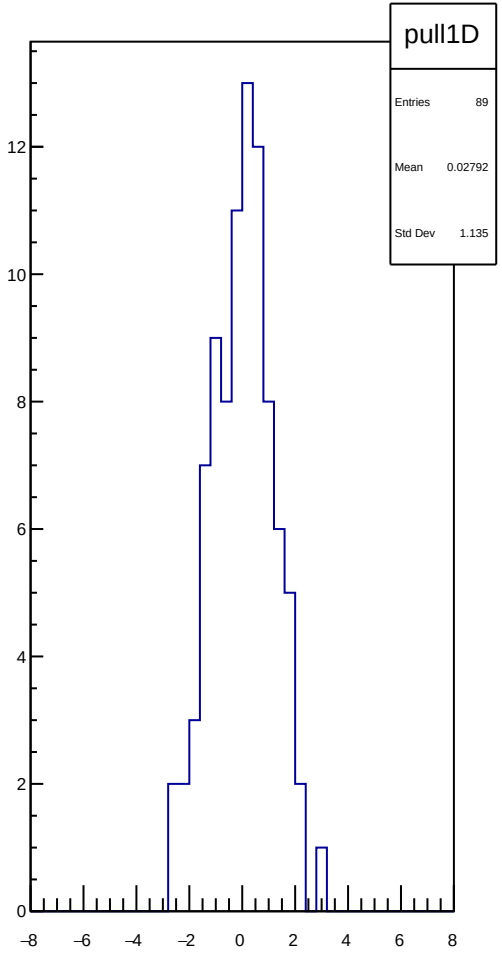

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 122.9 / 88
p0 −0.5635 ± 0.3628
pull
Entries 89
Mean 166.8
Std Dev 0

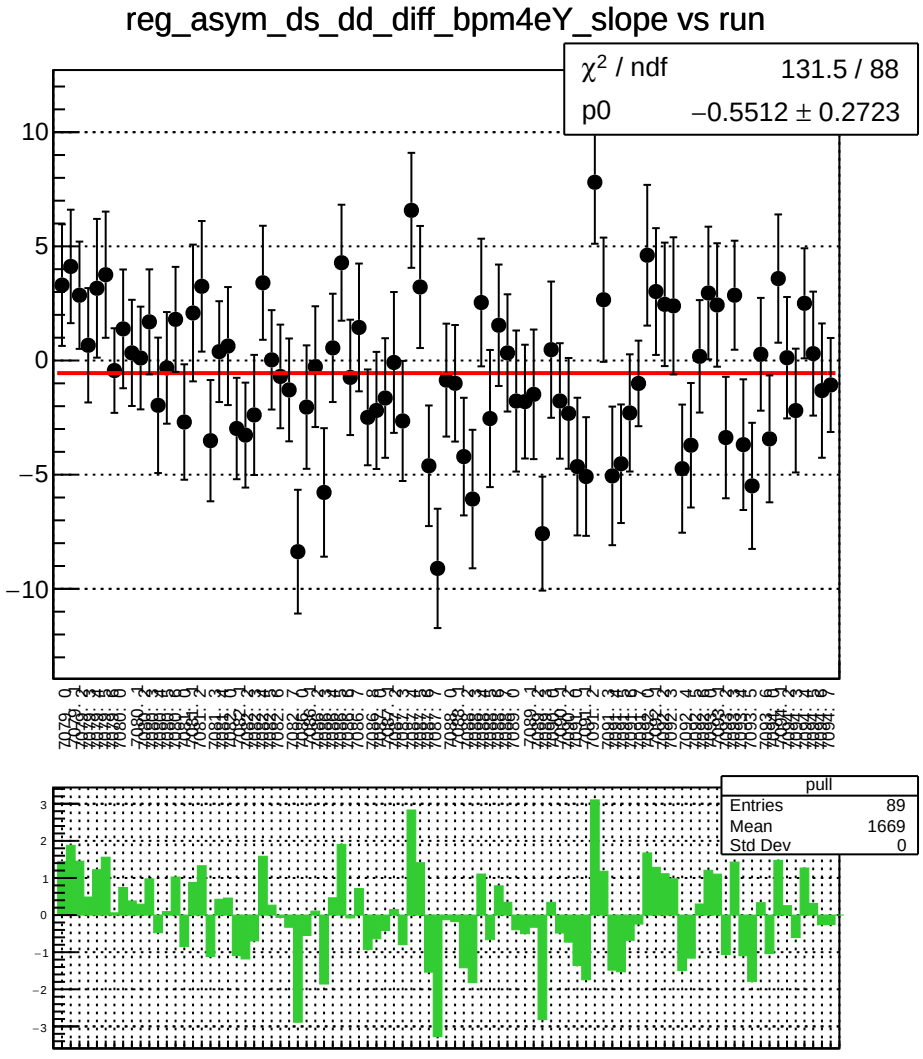

pull1D
Entries 89
Mean −0.03246
Std Dev 1.175

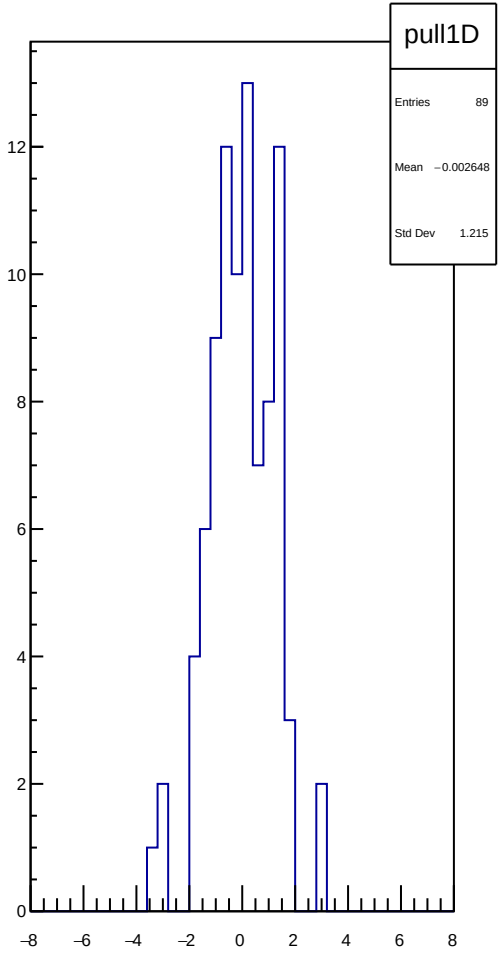

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 127.8 / 88
p0 0.4635 ± 0.2596
pull
Entries 89
Mean −2013
Std Dev 0

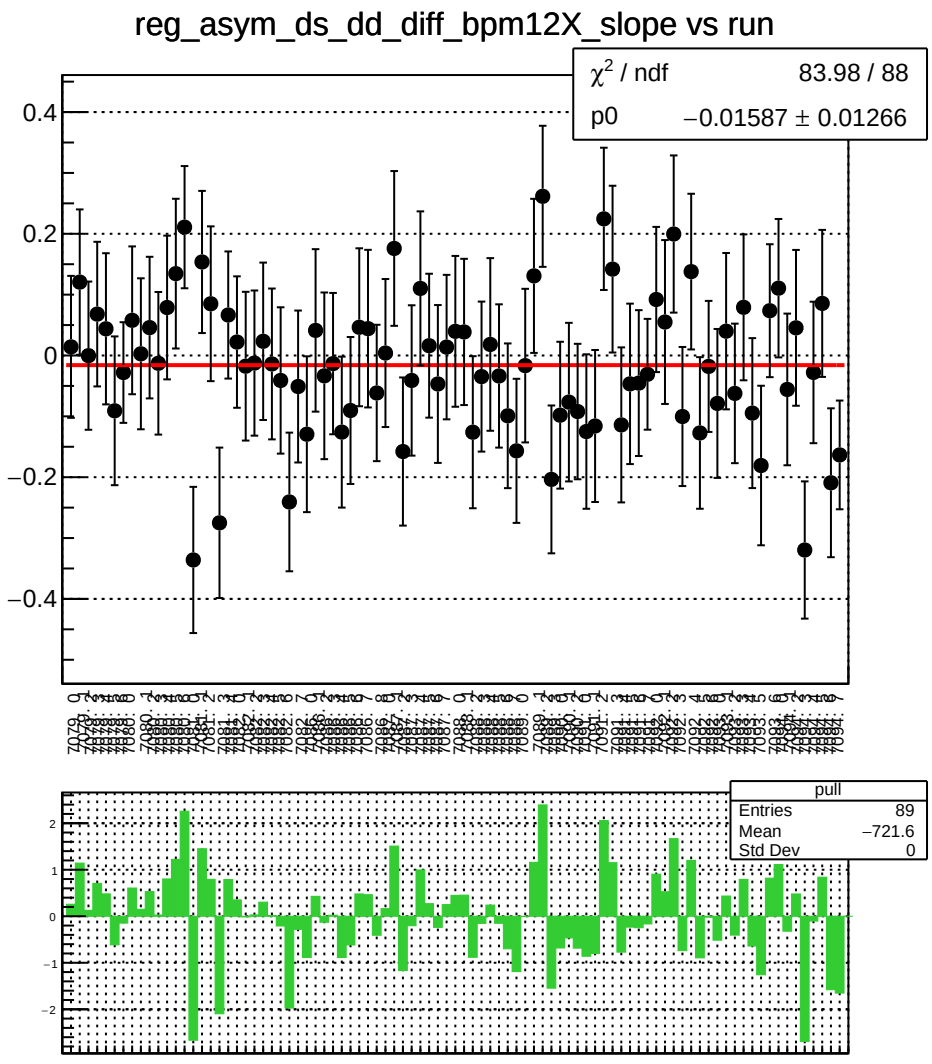

pull1D
Entries 89
Mean −0.002072
Std Dev 1.199

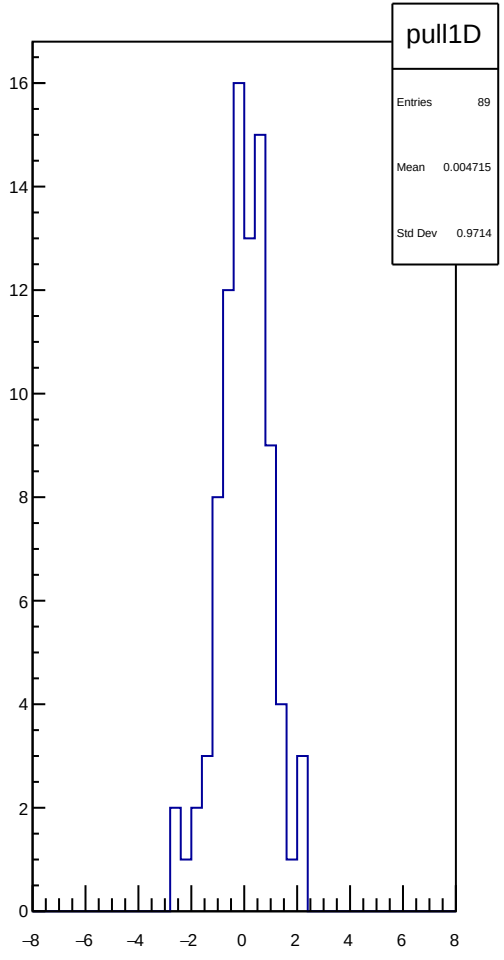

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 114.7 / 88
p0 0.5258 ± 0.3494
pull
Entries 89
Mean 181.1
Std Dev 0

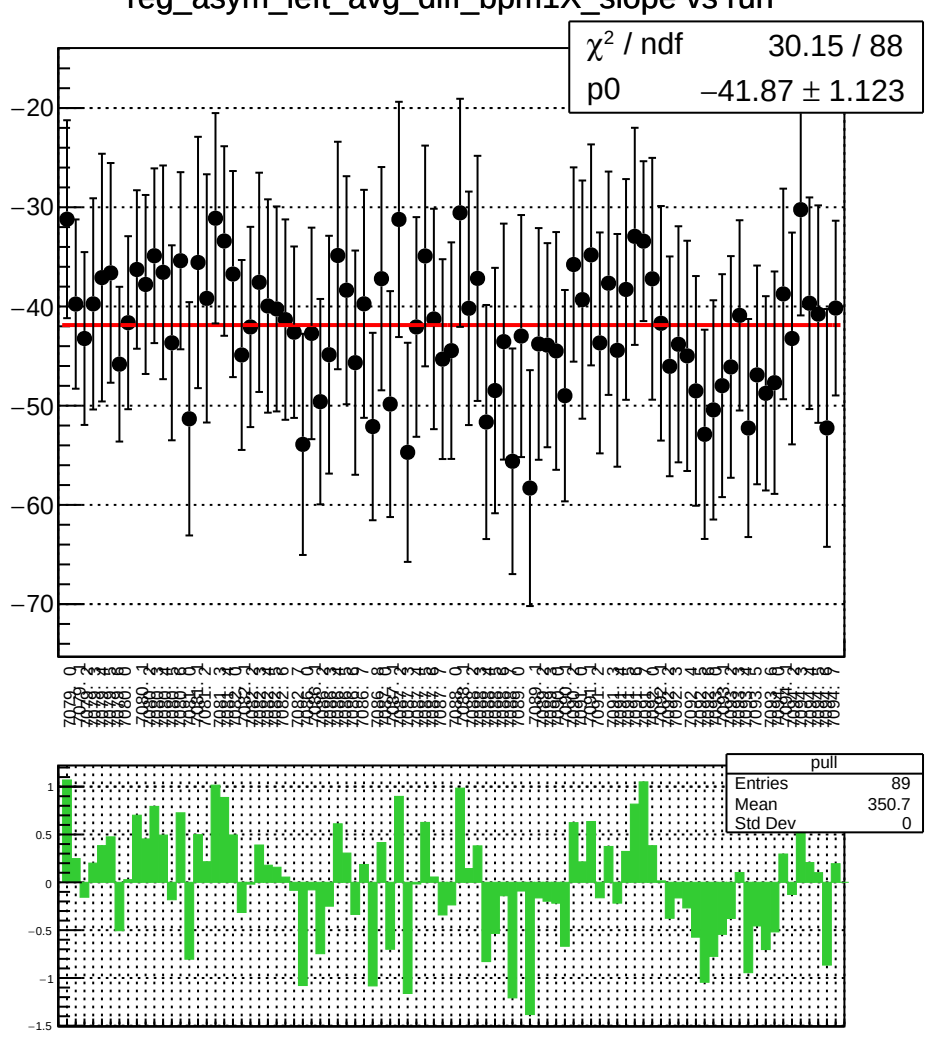

pull1D
Entries 89
Mean 0.02792
Std Dev 1.135

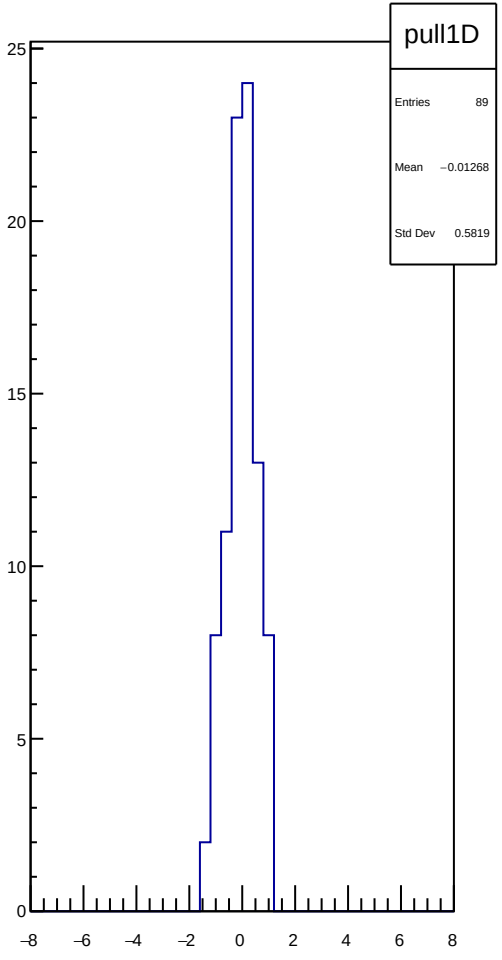

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 131.5 / 88
p0 −0.5512 ± 0.2723
10
5
0
−5
−10
pull
Entries 89
Mean 1669
Std Dev 0
3
2
1
0
−1
−2
−3

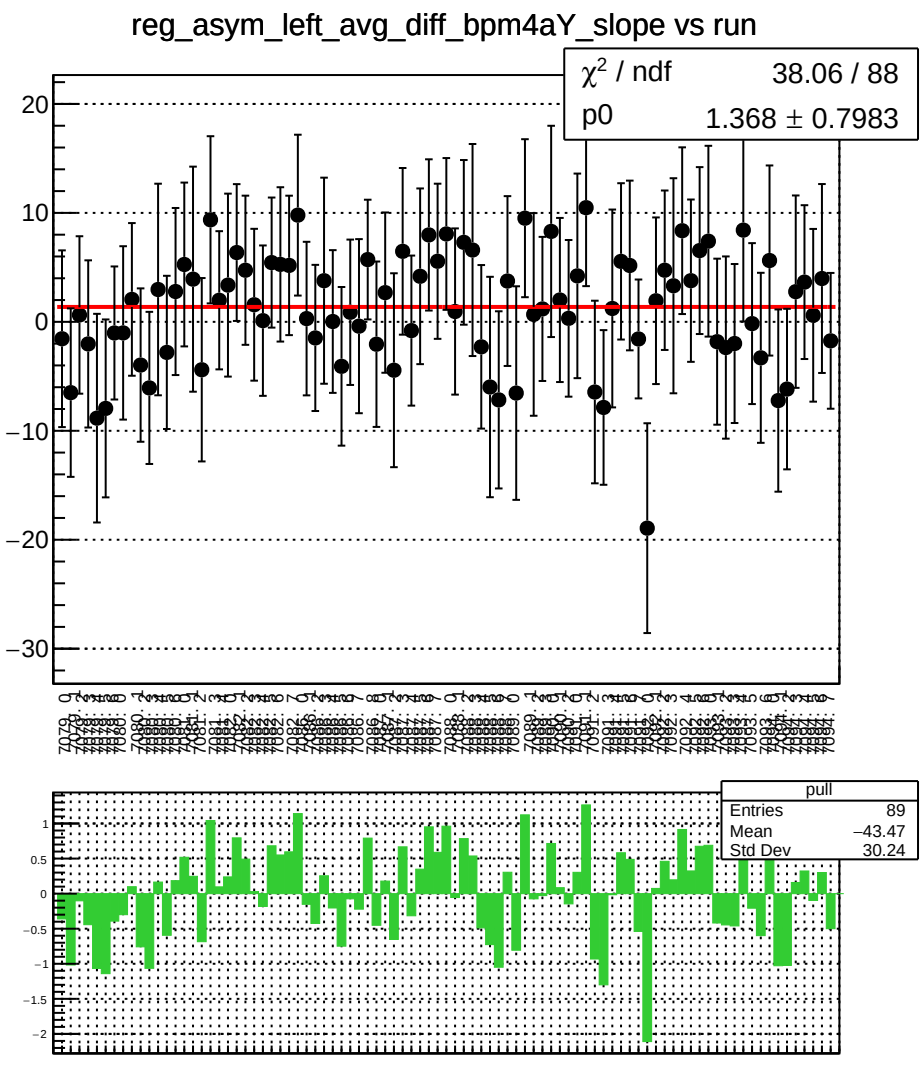

pull1D
Entries 89
Mean −0.002648
Std Dev 1.215
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

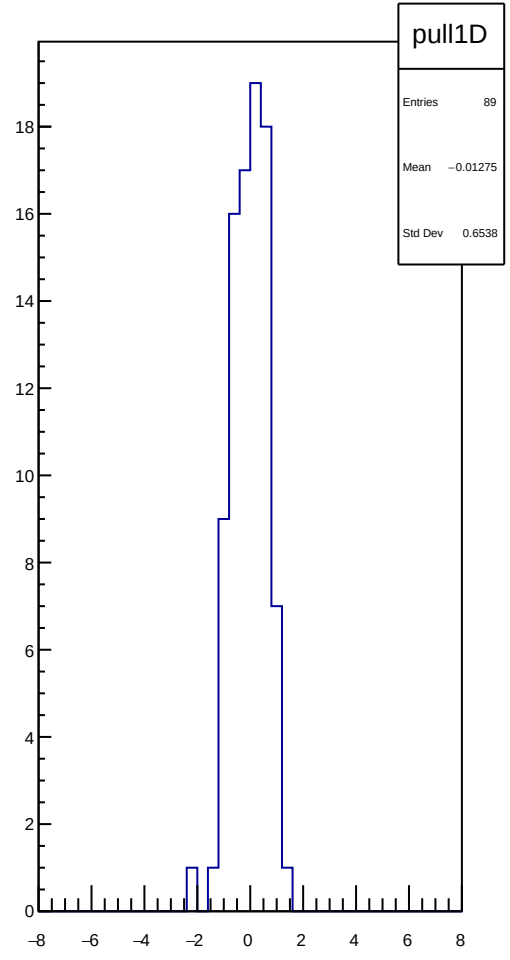

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 83.98 / 88
p0 −0.01587 ± 0.01266
pull
Entries 89
Mean −721.6
Std Dev 0

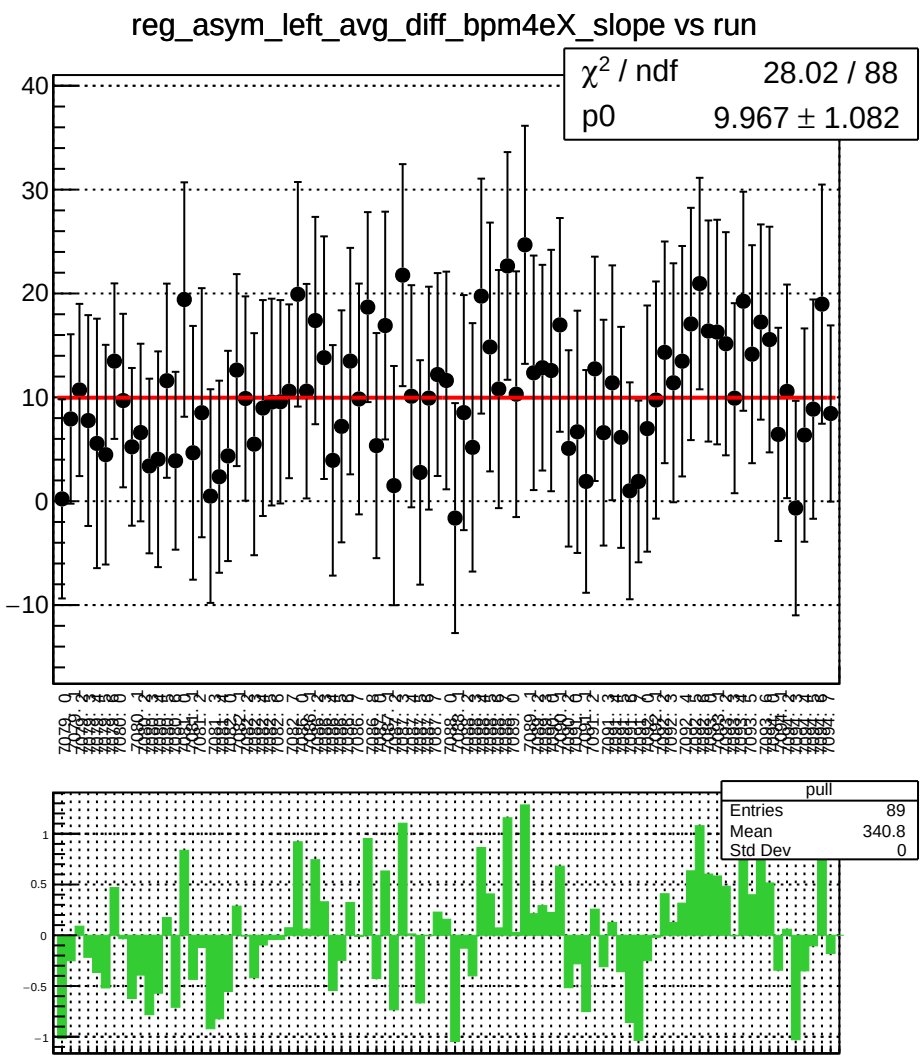

pull1D
Entries 89
Mean 0.004715
Std Dev 0.9714

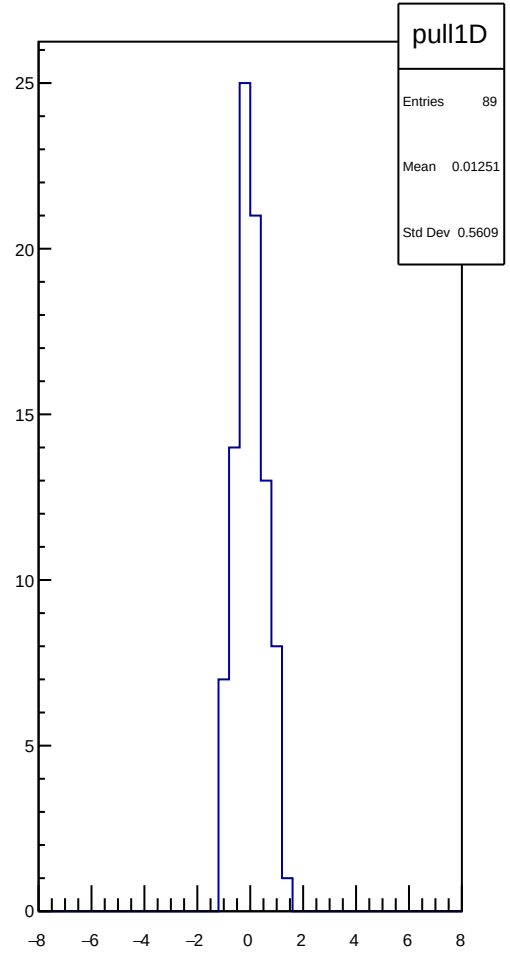

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 30.15 / 88
p0 −41.87 ± 1.123
pull
Entries 89
Mean 350.7
Std Dev 0

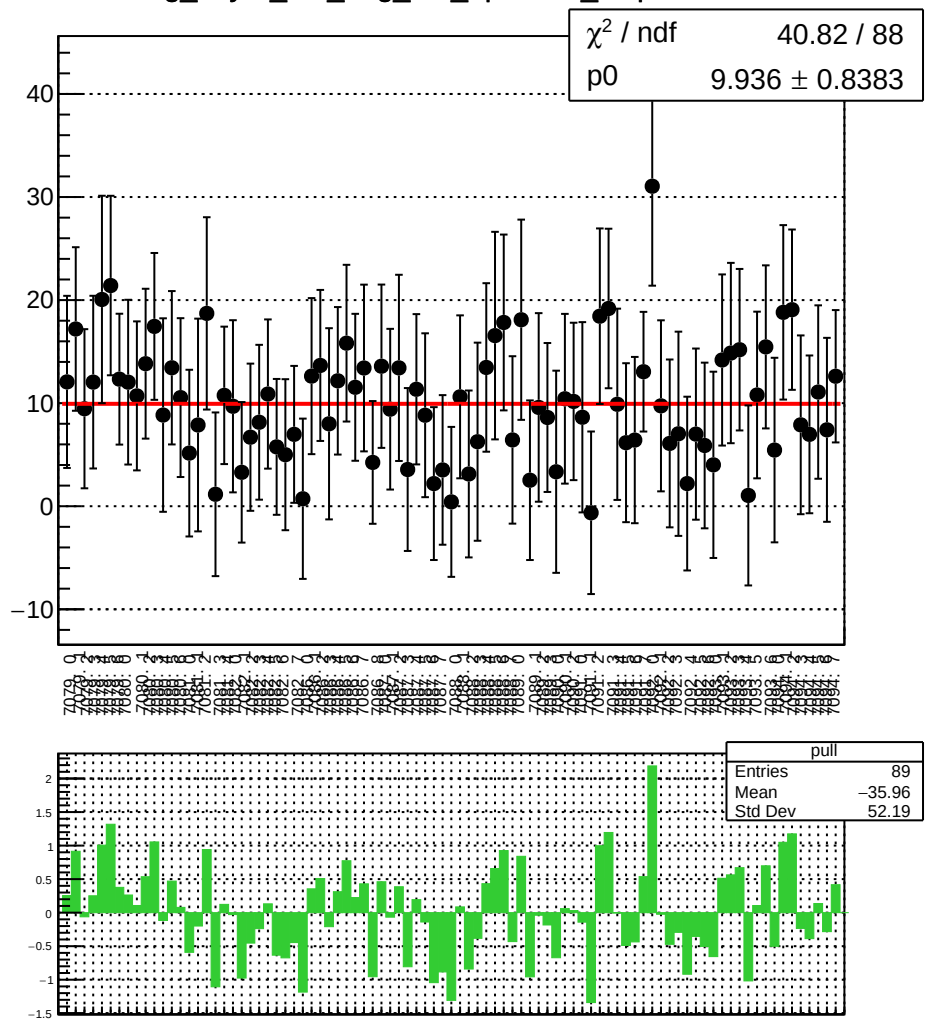

pull1D
Entries 89
Mean −0.01268
Std Dev 0.5819

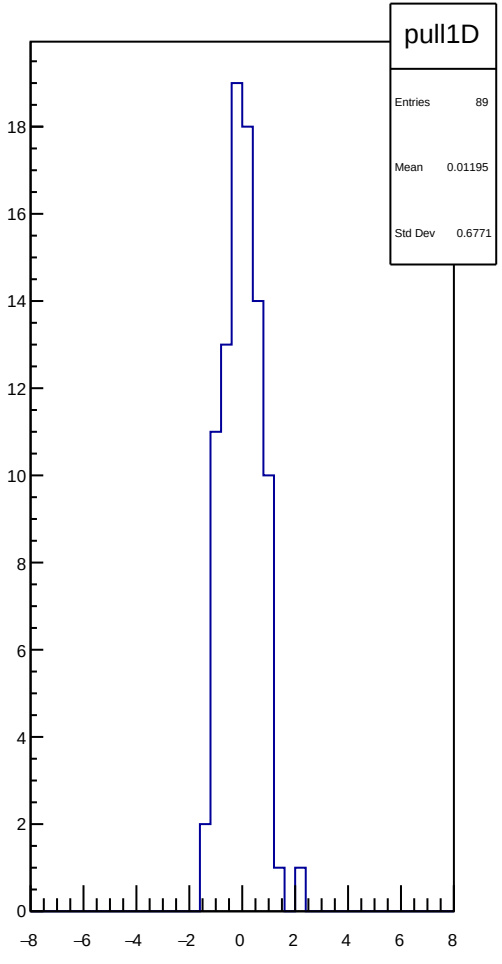

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.06 / 88
p0 1.368 ± 0.7983
pull
Entries 89
Mean −43.47
Std Dev 30.24

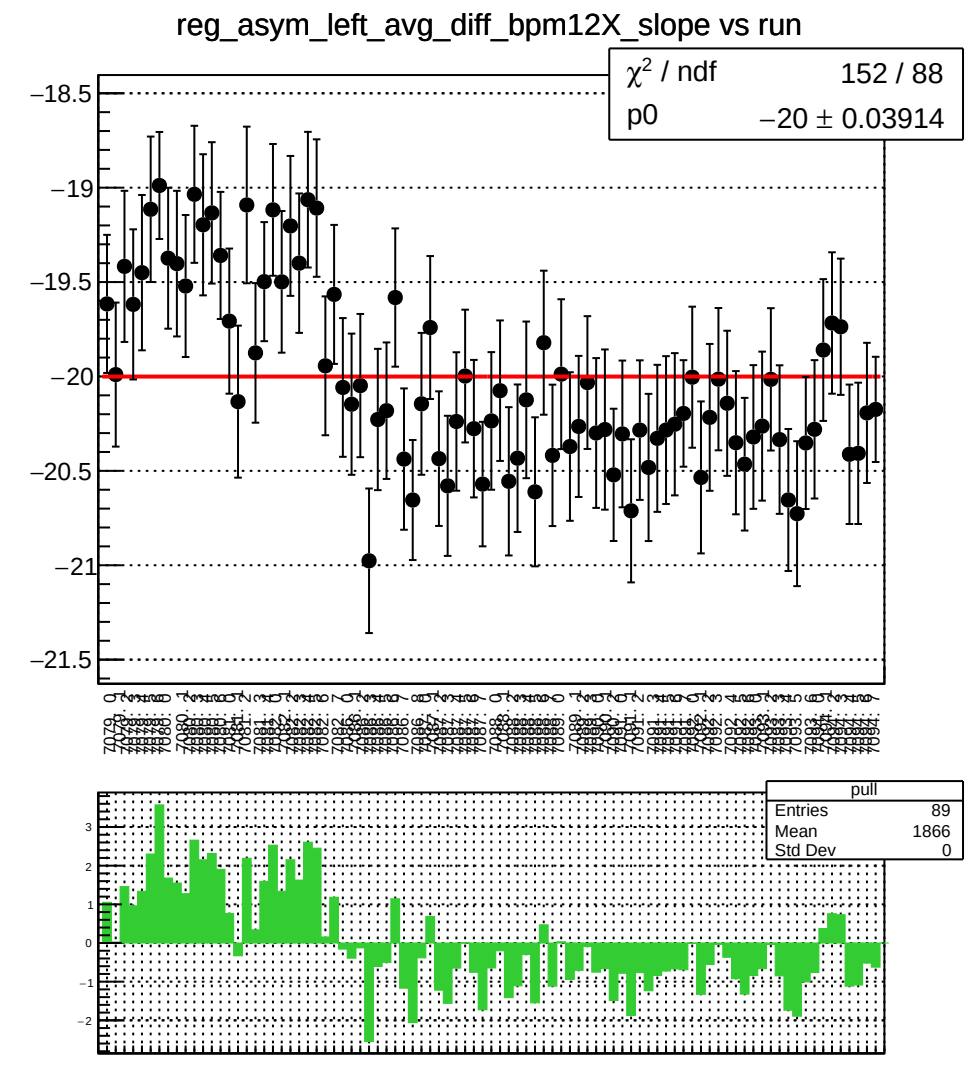

pull1D
Entries 89
Mean −0.01275
Std Dev 0.6538

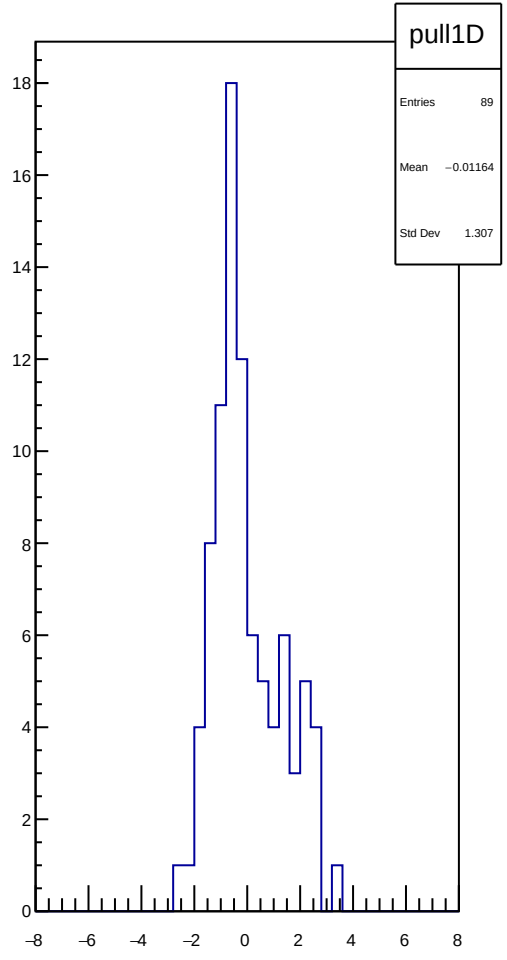

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.02 / 88
p0 9.967 ± 1.082
pull
Entries 89
Mean 340.8
Std Dev 0

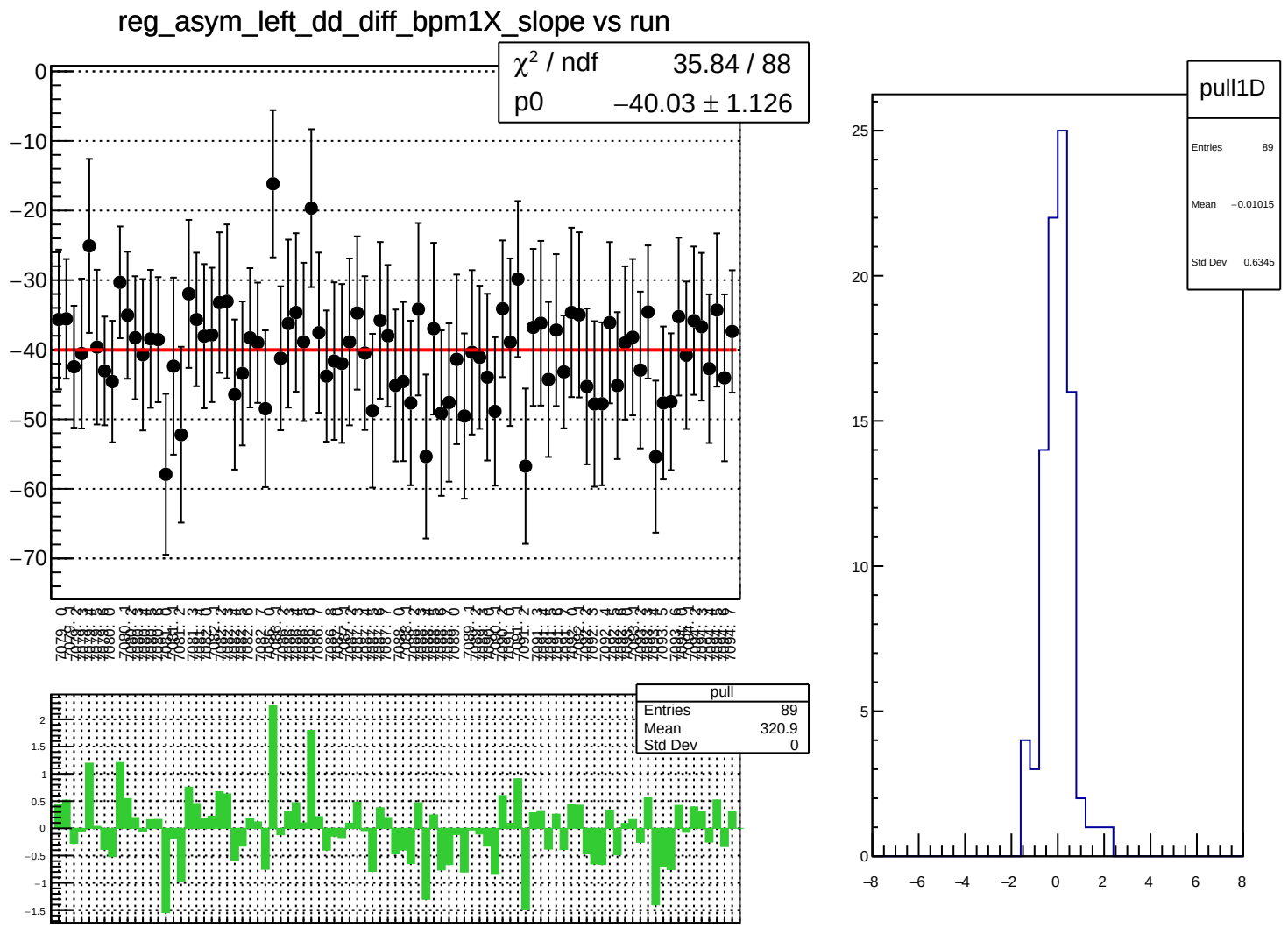

pull1D
Entries 89
Mean 0.01251
Std Dev 0.5609

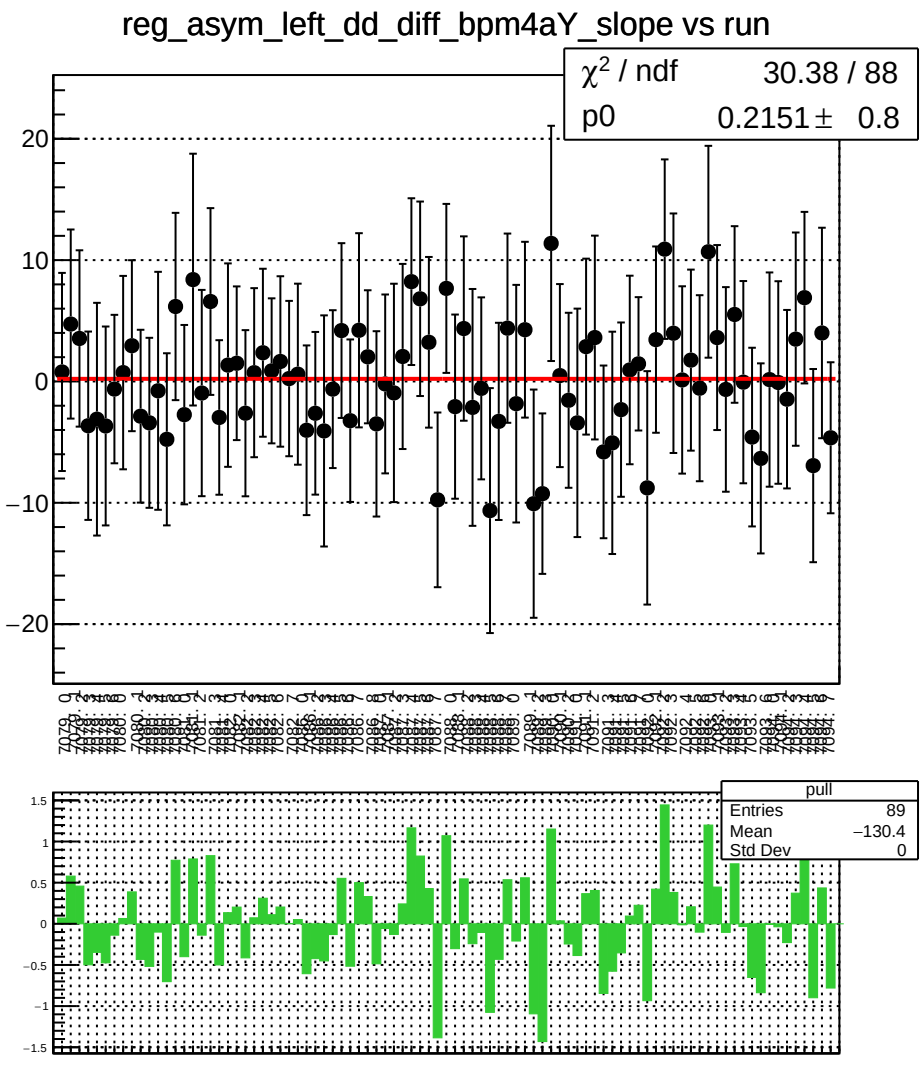

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.82 / 88
p0 9.936 ± 0.8383
pull
Entries 89
Mean −35.96
Std Dev 52.19

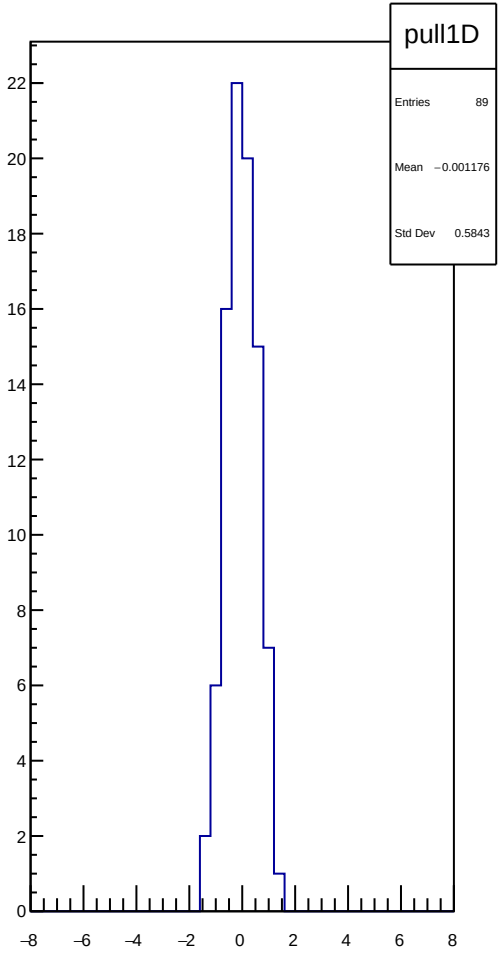

pull1D
Entries 89
Mean 0.01195
Std Dev 0.6771

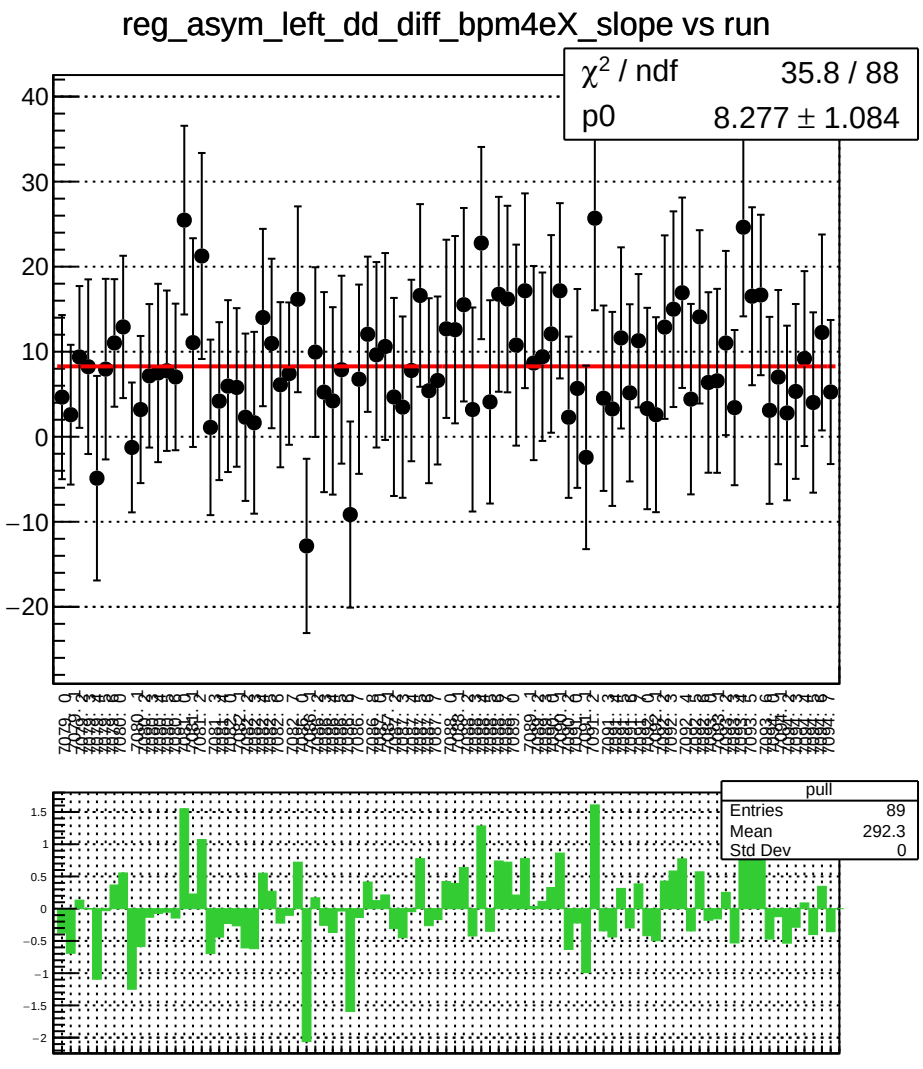

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 152 / 88
p0 −20 ± 0.03914
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
pull
Entries 89
Mean 1866
Std Dev 0
3
2
1
0
−1
−2

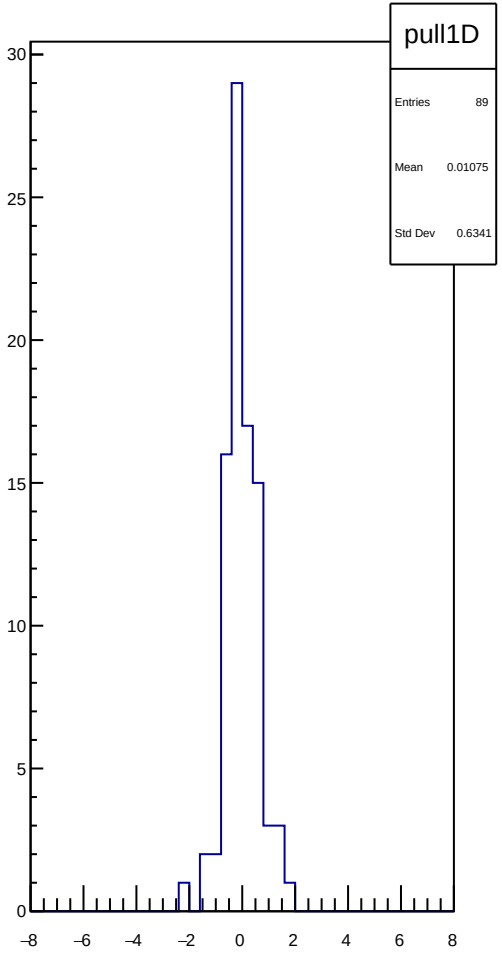

pull1D
Entries 89
Mean −0.01164
Std Dev 1.307
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

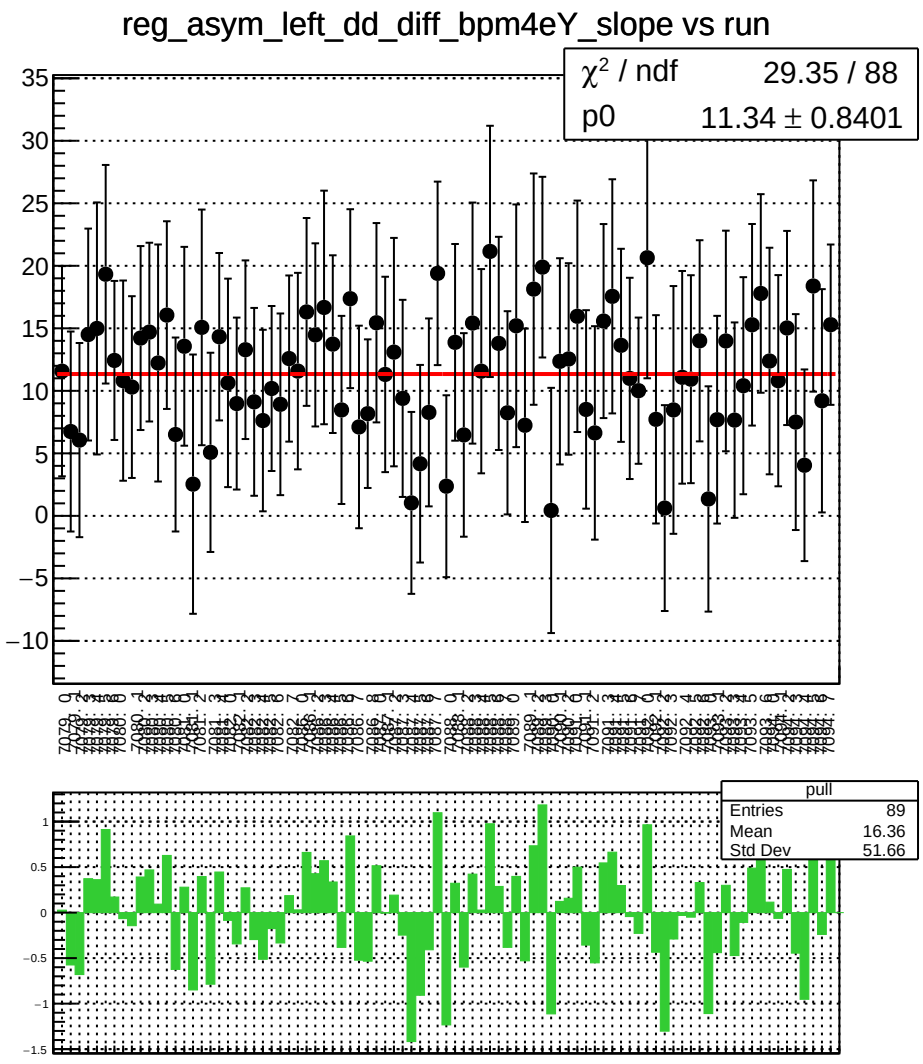

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 35.84 / 88
p0 −40.03 ± 1.126
pull
Entries 89
Mean 320.9
Std Dev 0
pull1D
Entries 89
Mean −0.01015
Std Dev 0.6345

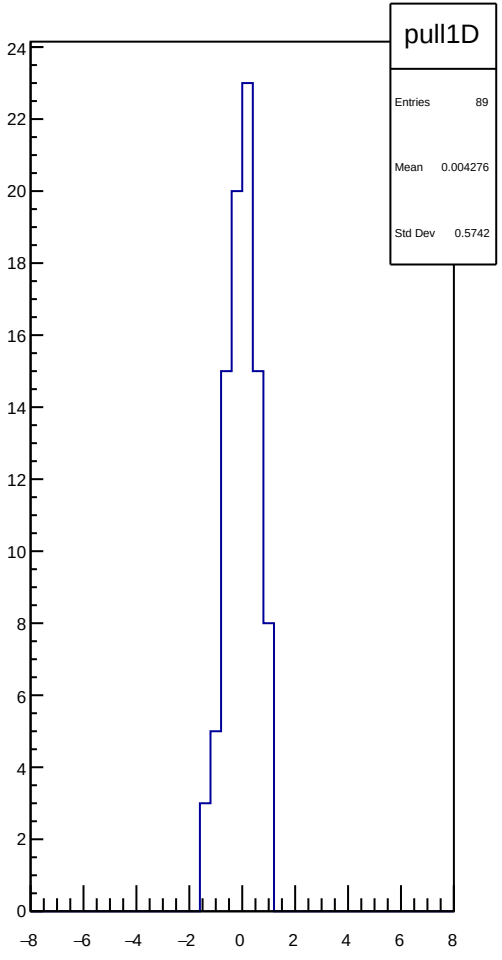

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.38 / 88
p0 0.2151 ± 0.8
pull
Entries 89
Mean −130.4
Std Dev 0

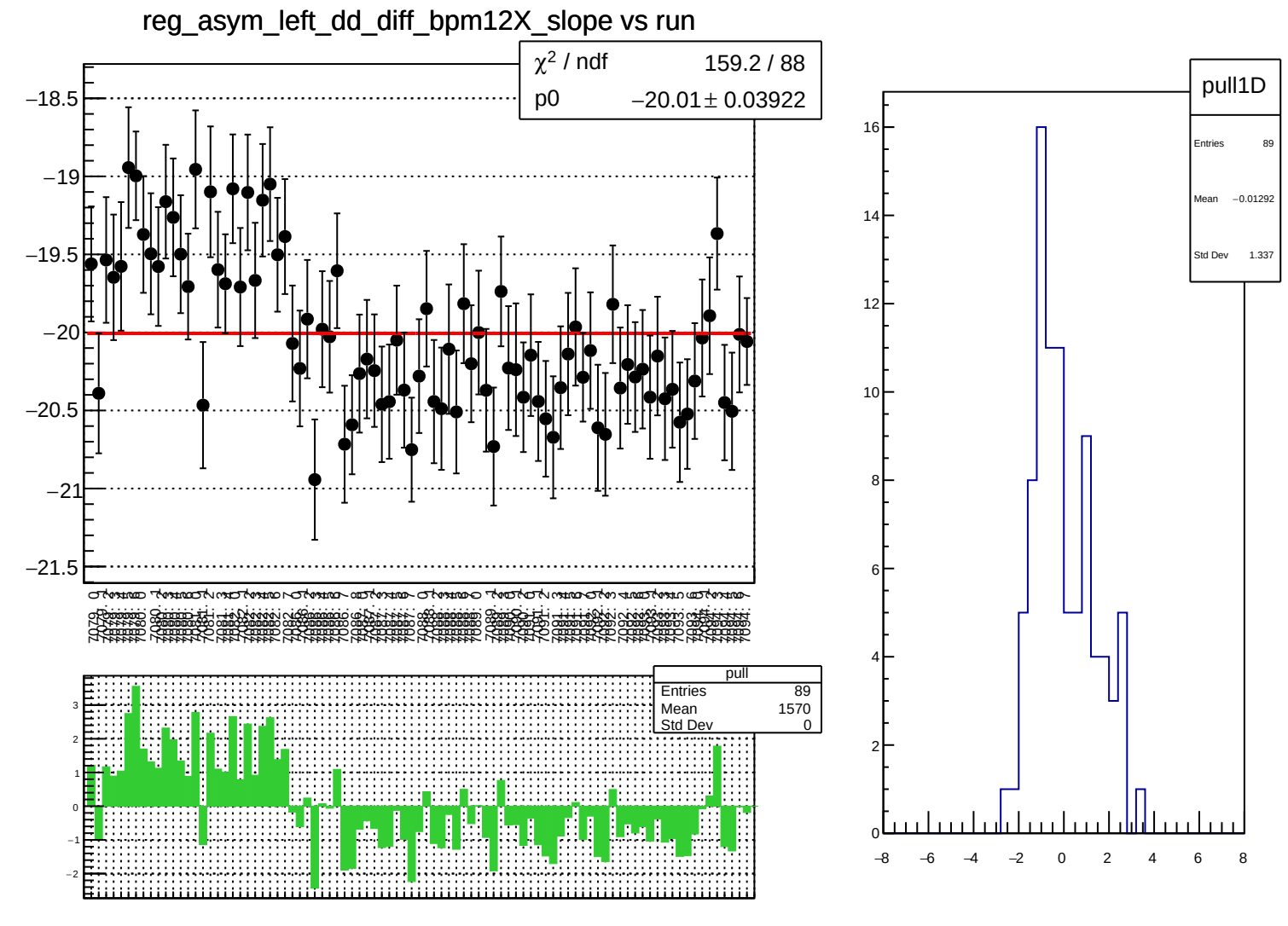

pull1D
Entries 89
Mean −0.001176
Std Dev 0.5843

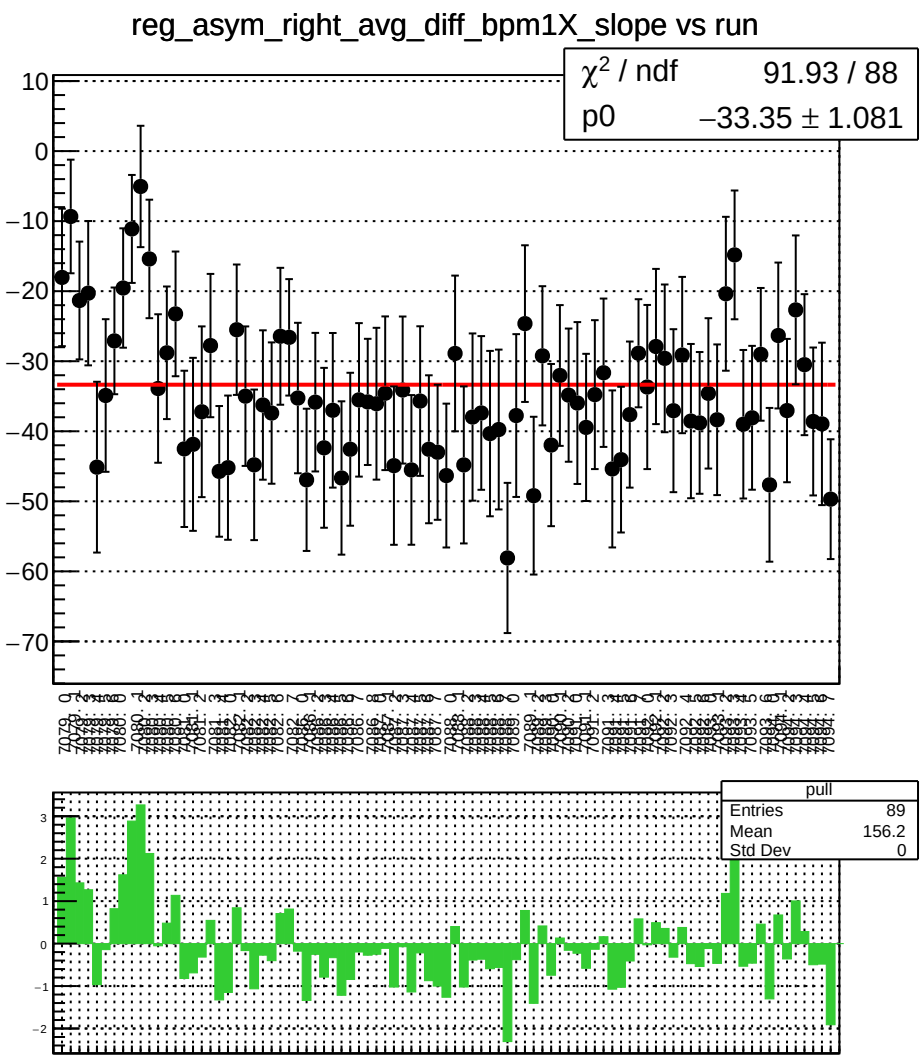

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.8 / 88
p0 8.277 ± 1.084
pull
Entries 89
Mean 292.3
Std Dev 0

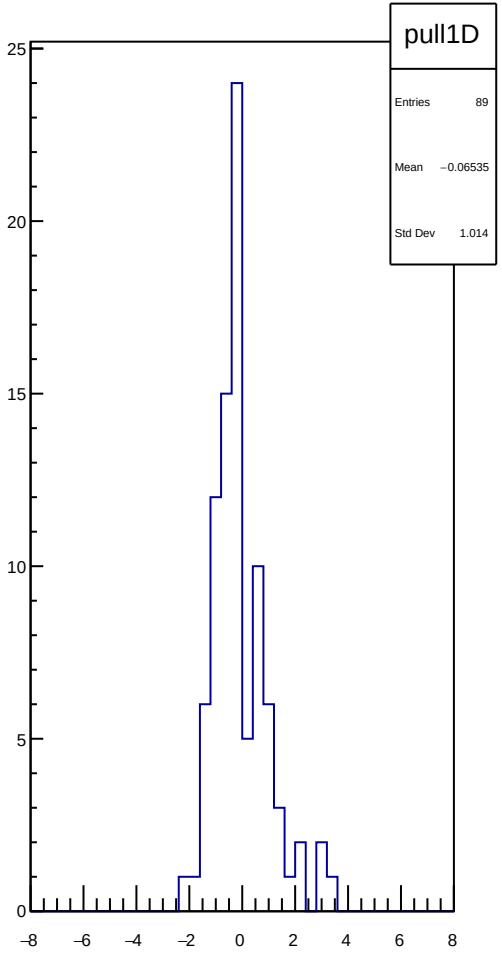

pull1D
Entries 89
Mean 0.01075
Std Dev 0.6341

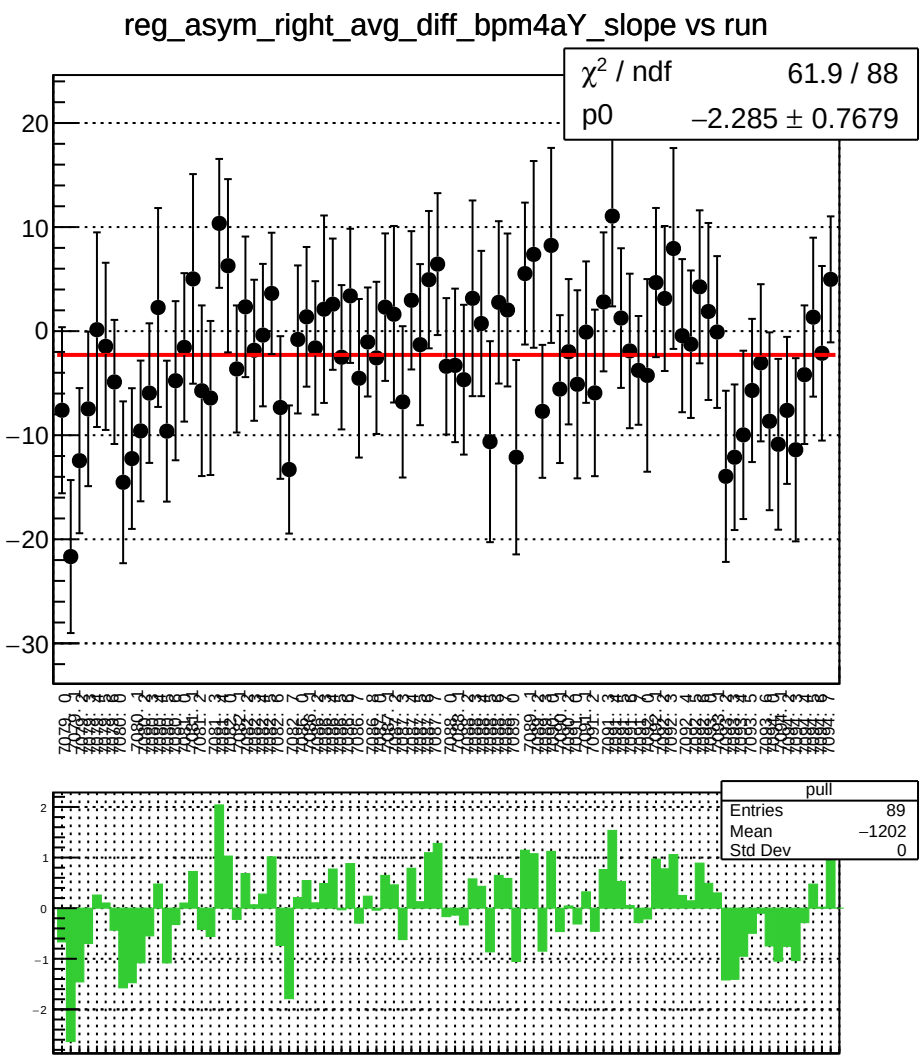

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.35 / 88
p0 11.34 ± 0.8401
pull
Entries 89
Mean 16.36
Std Dev 51.66

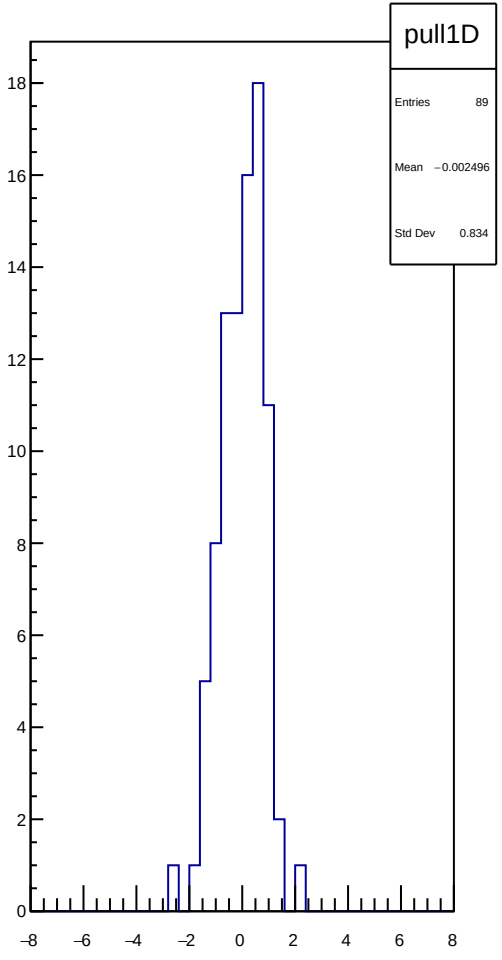

pull1D
Entries 89
Mean 0.004276
Std Dev 0.5742

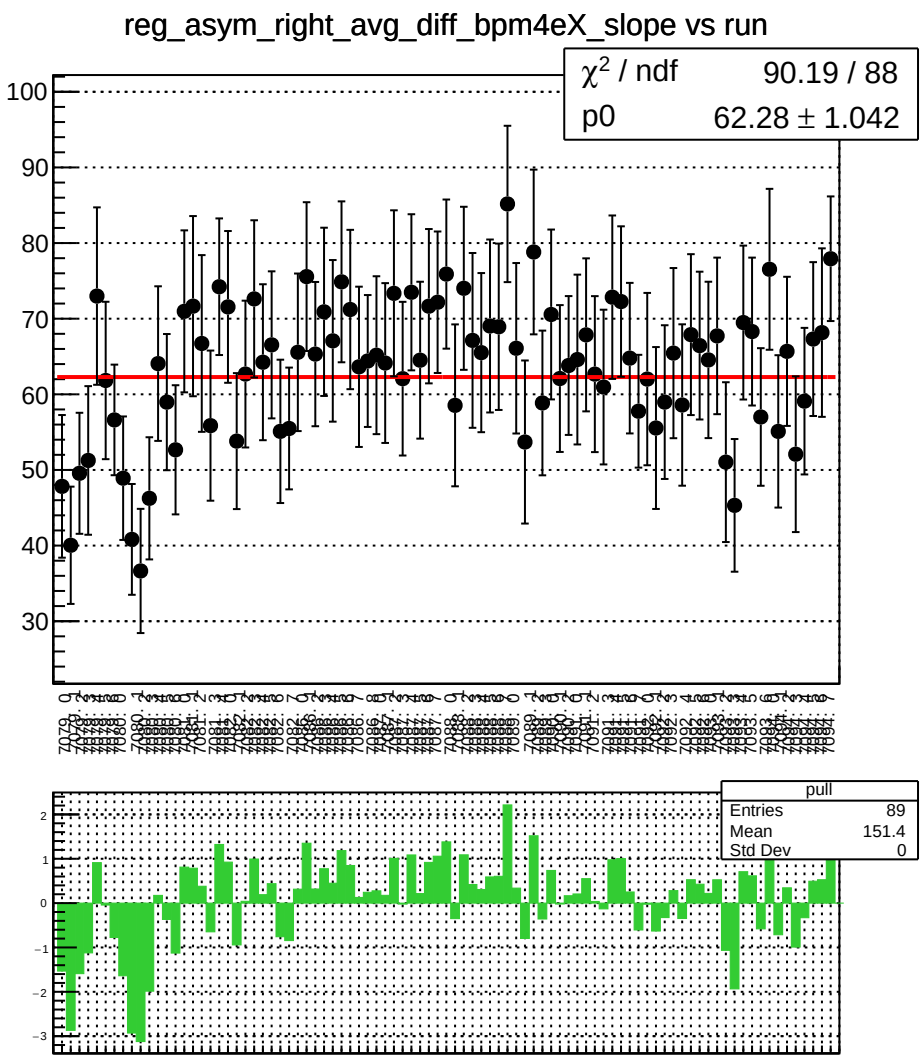

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 159.2 / 88
p0 −20.01 ± 0.03922
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
pull
Entries 89
Mean 1570
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01292
Std Dev 1.337
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

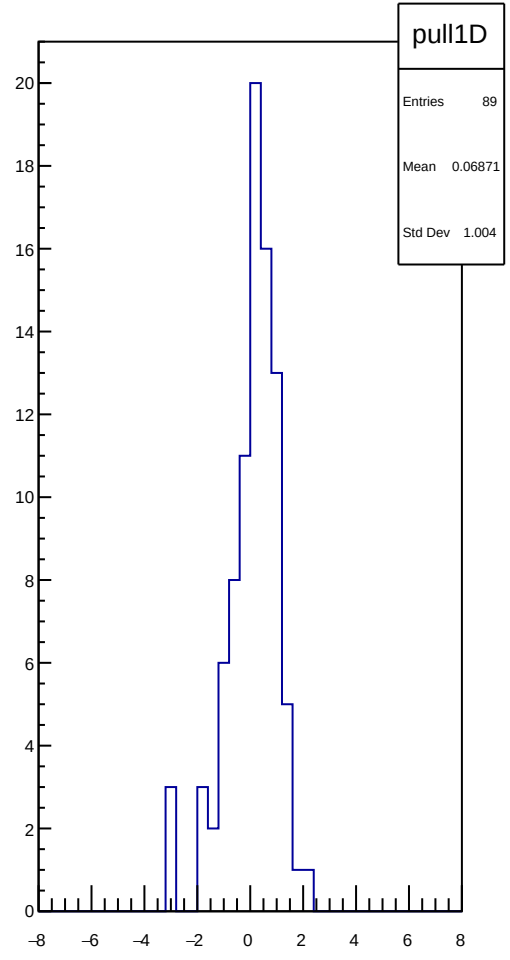

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 91.93 / 88
p0 −33.35 ± 1.081
pull
Entries 89
Mean 156.2
Std Dev 0

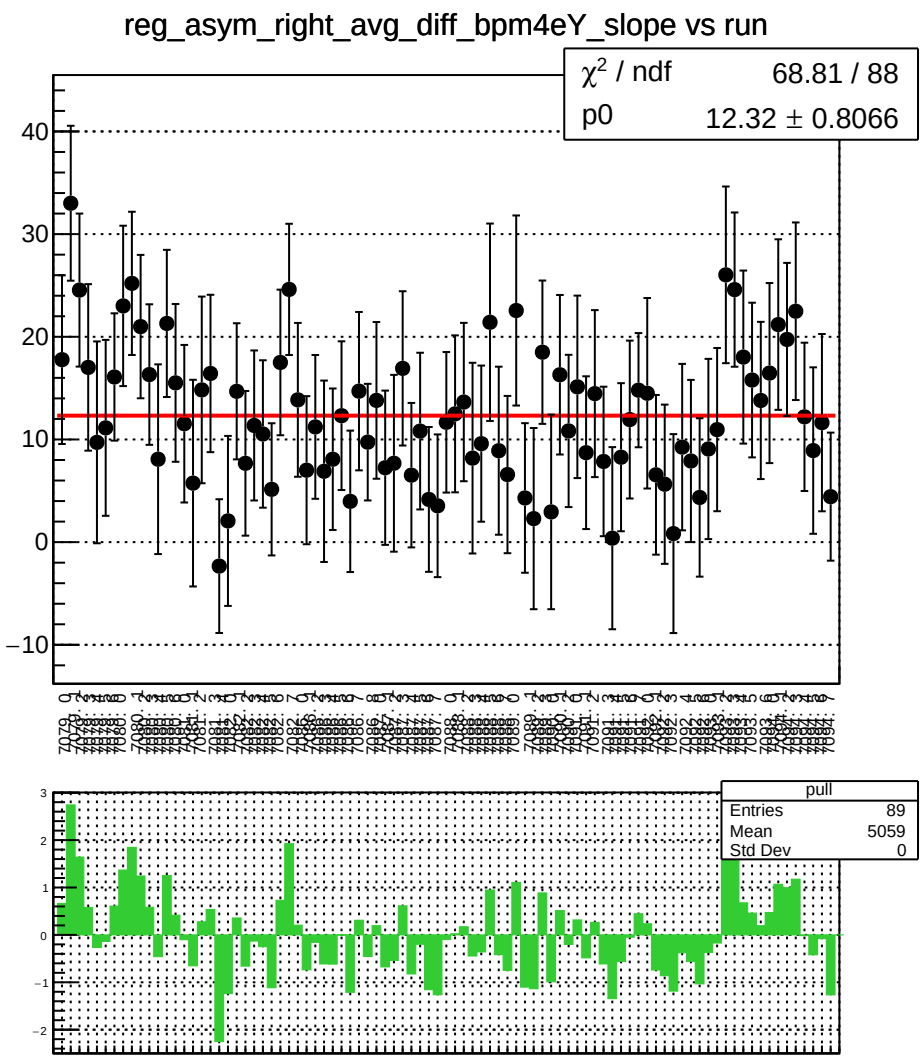

pull1D
Entries 89
Mean −0.06535
Std Dev 1.014

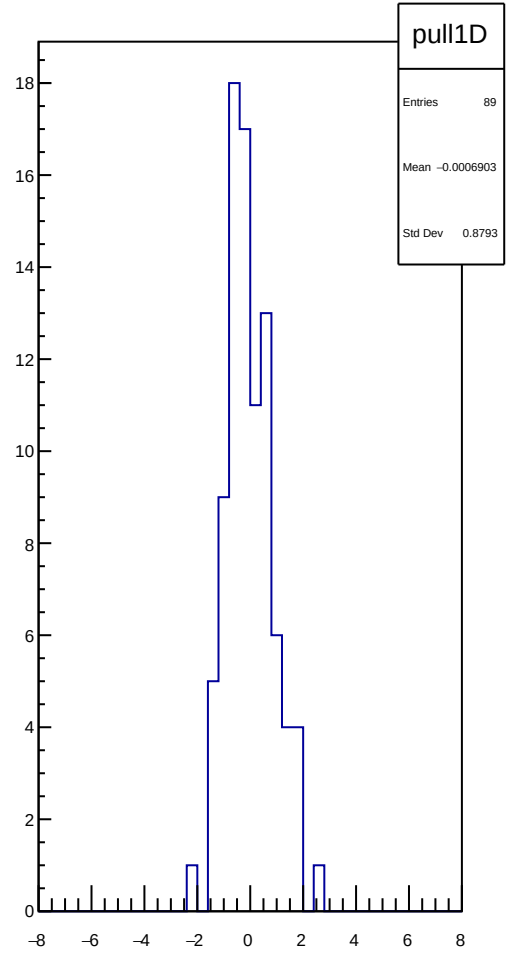

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.9 / 88
p0 −2.285 ± 0.7679
pull
Entries 89
Mean −1202
Std Dev 0

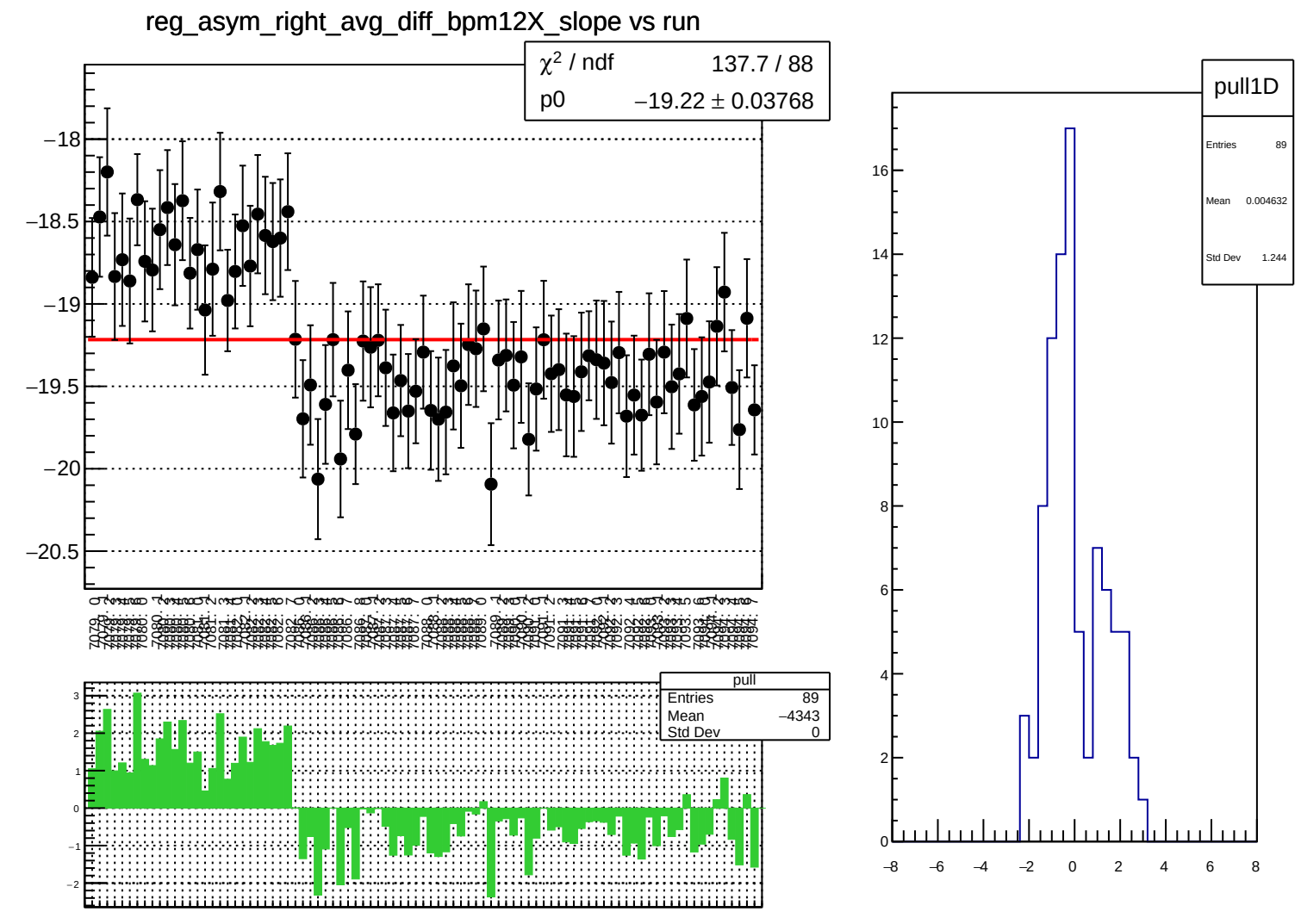

pull1D
Entries 89
Mean −0.002496
Std Dev 0.834

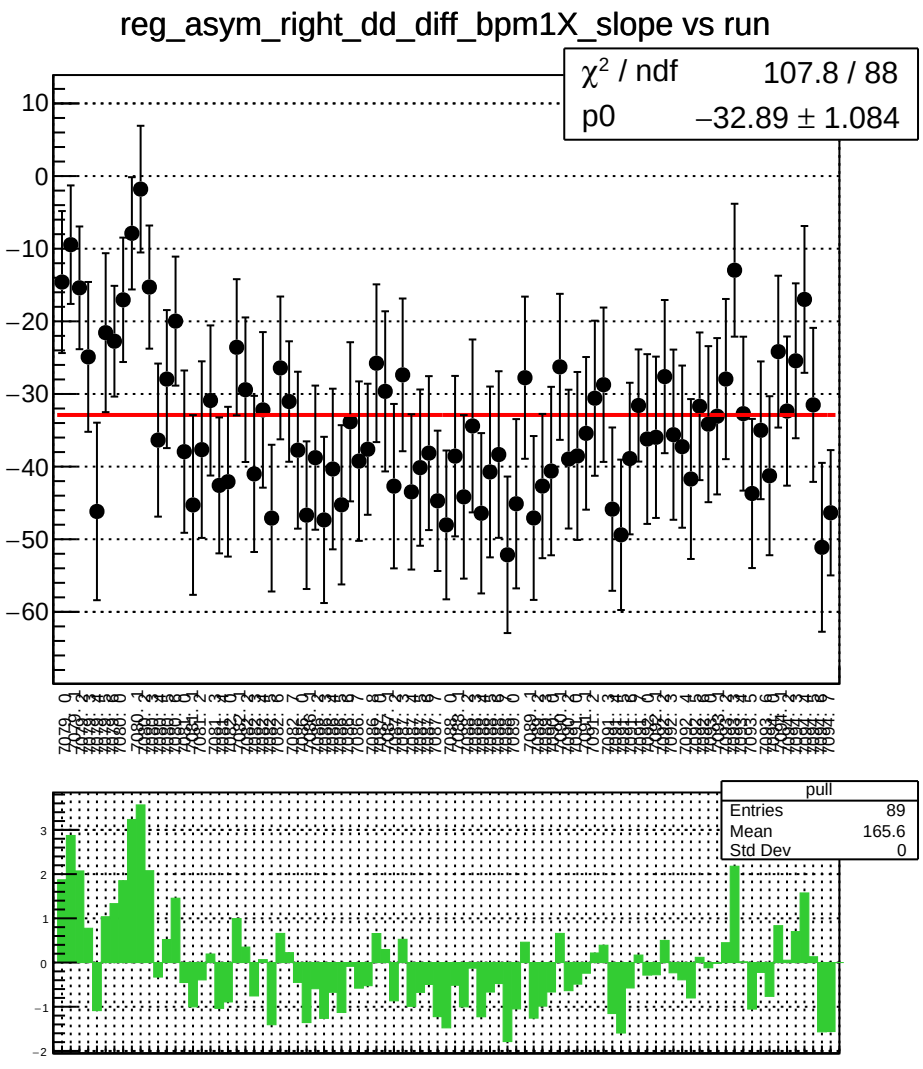

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.19 / 88
p0 62.28 ± 1.042
pull
Entries 89
Mean 151.4
Std Dev 0

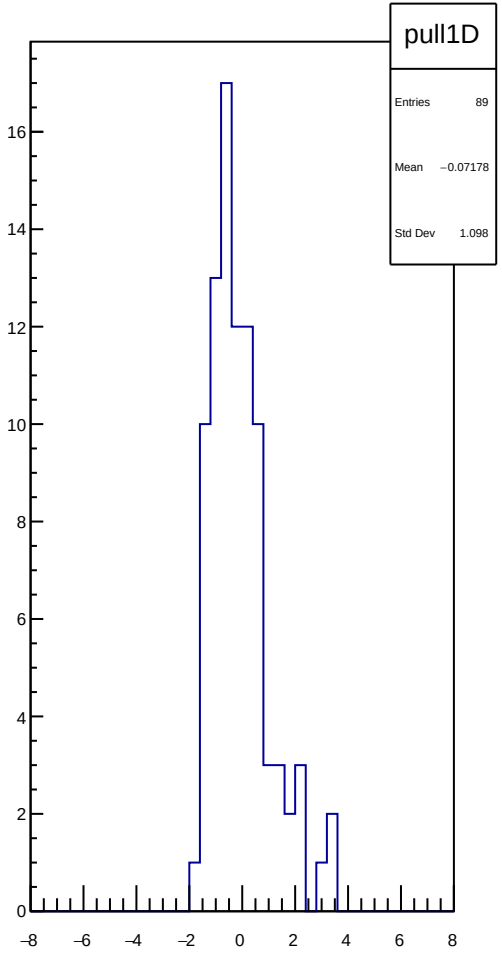

pull1D
Entries 89
Mean 0.06871
Std Dev 1.004

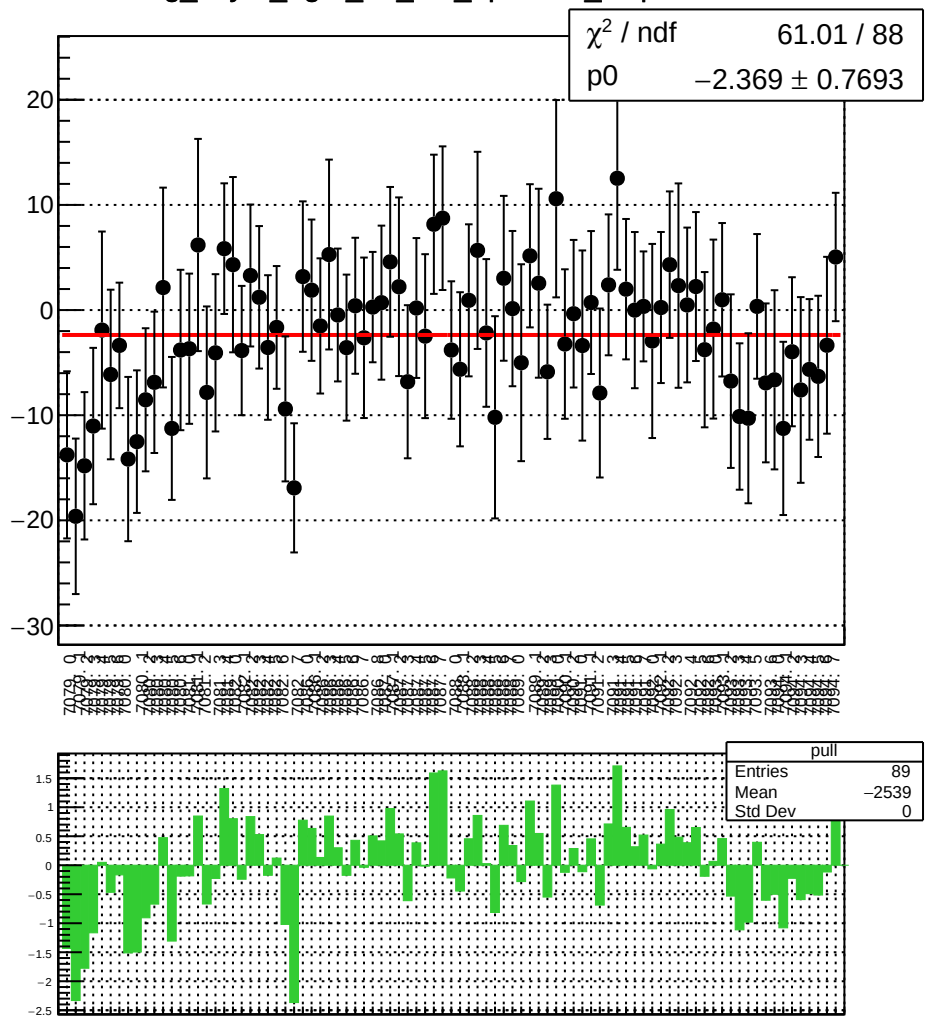

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.81 / 88
p0 12.32 ± 0.8066
pull
Entries 89
Mean 5059
Std Dev 0

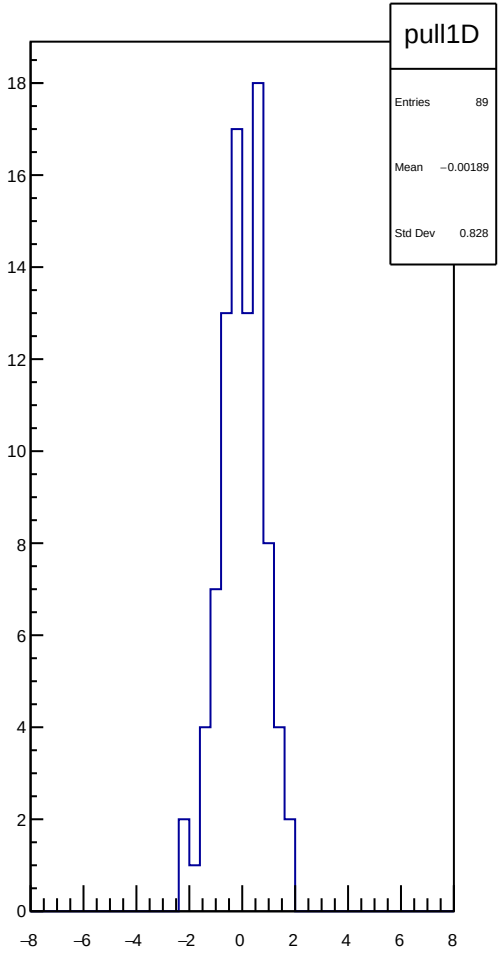

pull1D
Entries 89
Mean −0.0006903
Std Dev 0.8793

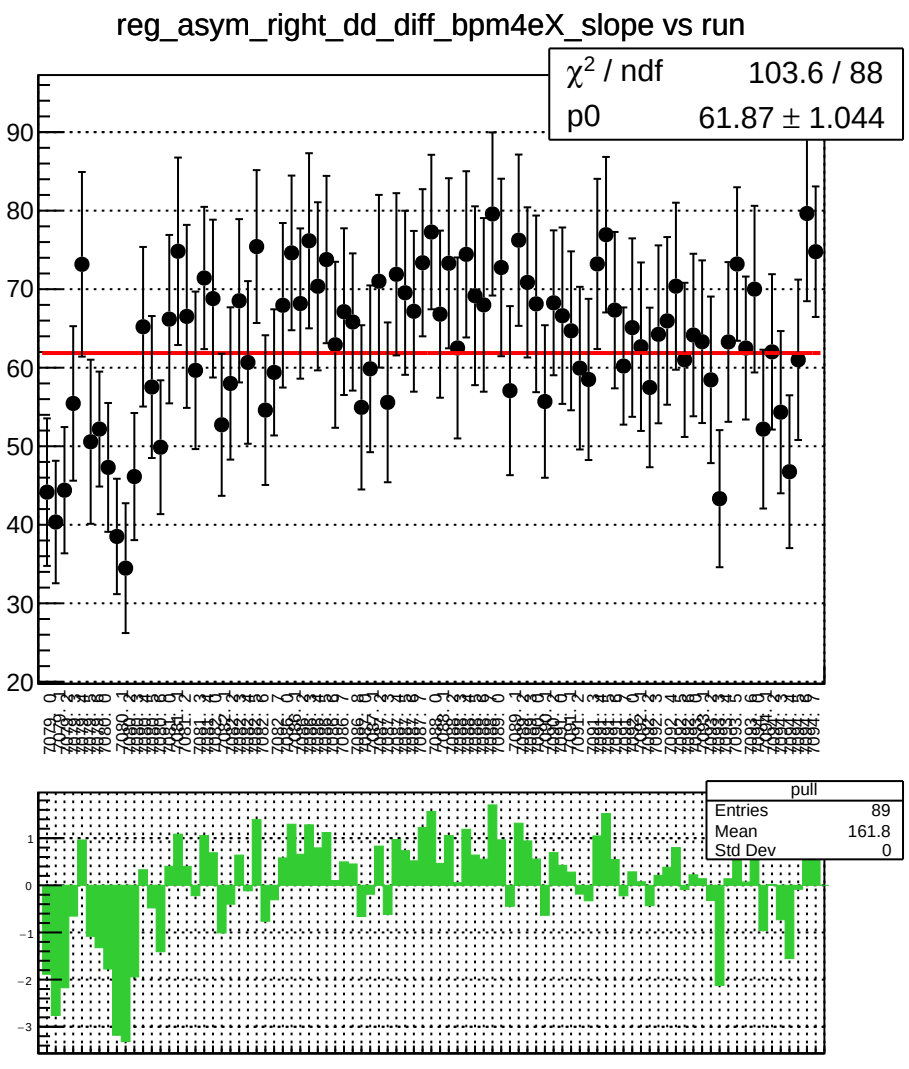

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 137.7 / 88
p0 −19.22 ± 0.03768
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 89
Mean −4343
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.004632
Std Dev 1.244
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

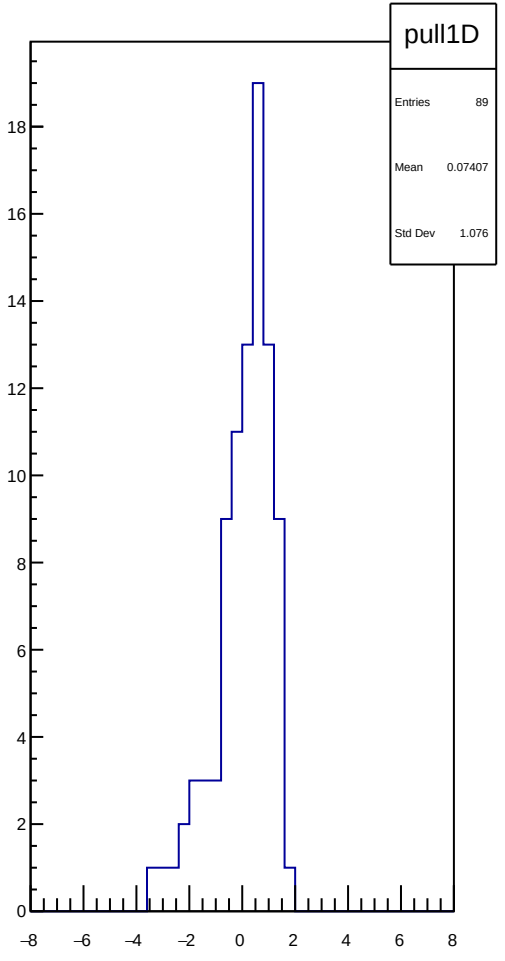

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 107.8 / 88
p0 −32.89 ± 1.084
pull
Entries 89
Mean 165.6
Std Dev 0

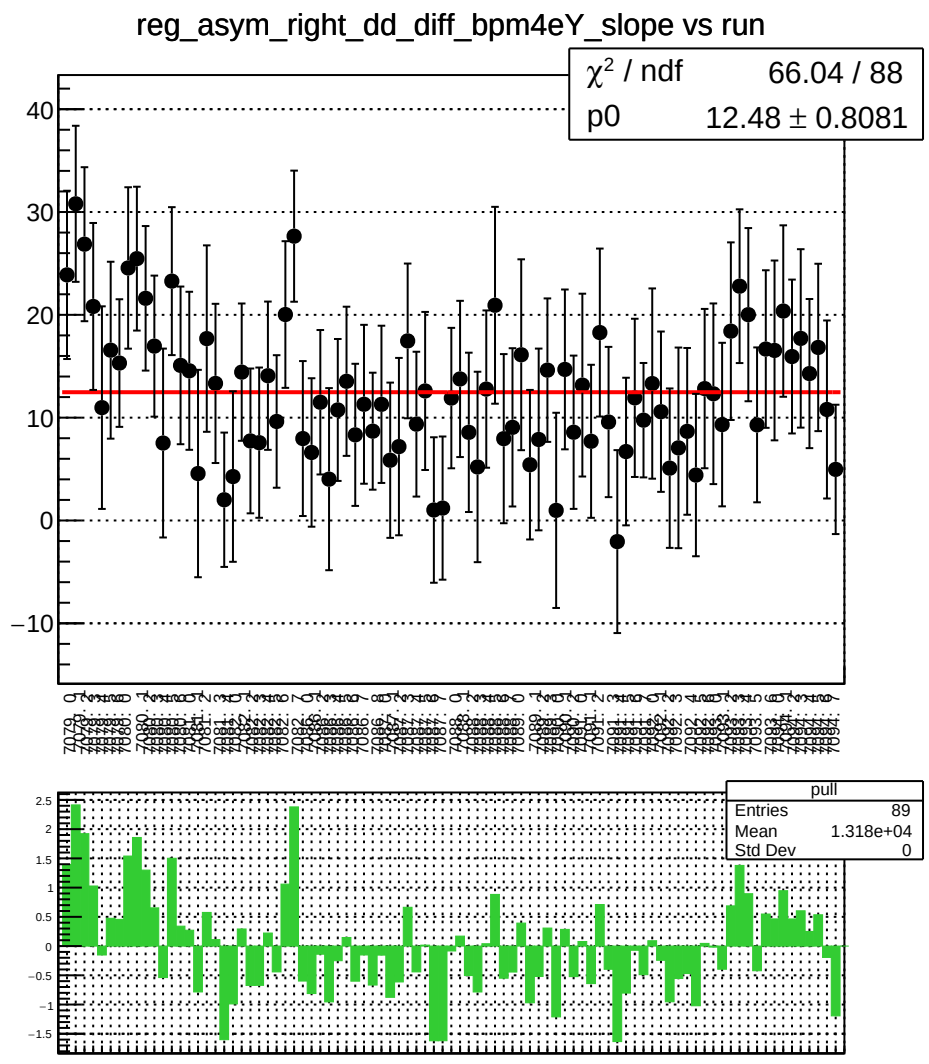

pull1D
Entries 89
Mean −0.07178
Std Dev 1.098

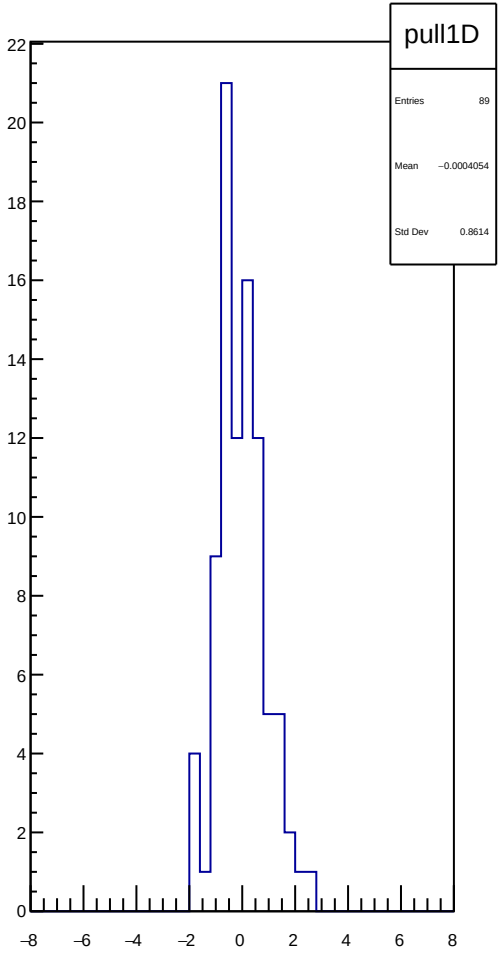

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.01 / 88
p0 −2.369 ± 0.7693
pull
Entries 89
Mean −2539
Std Dev 0

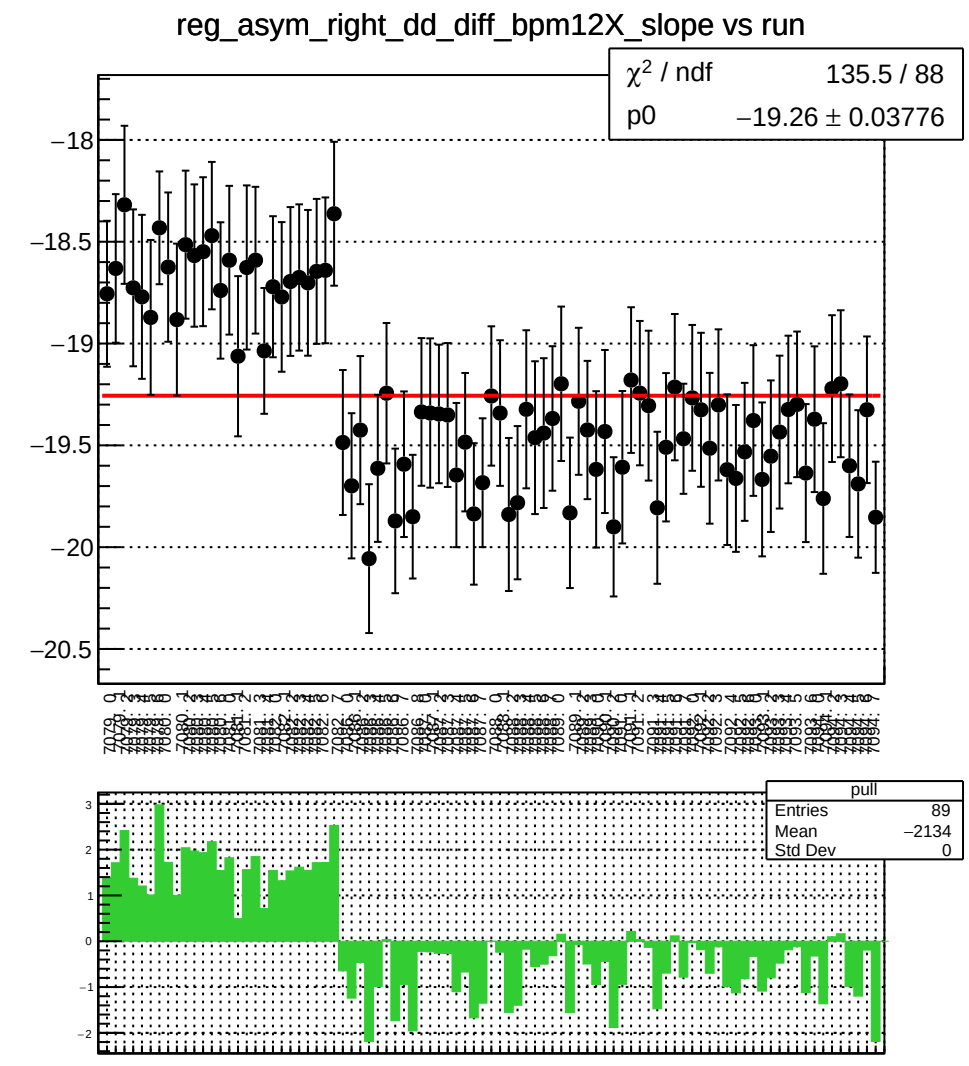

pull1D
Entries 89
Mean −0.00189
Std Dev 0.828

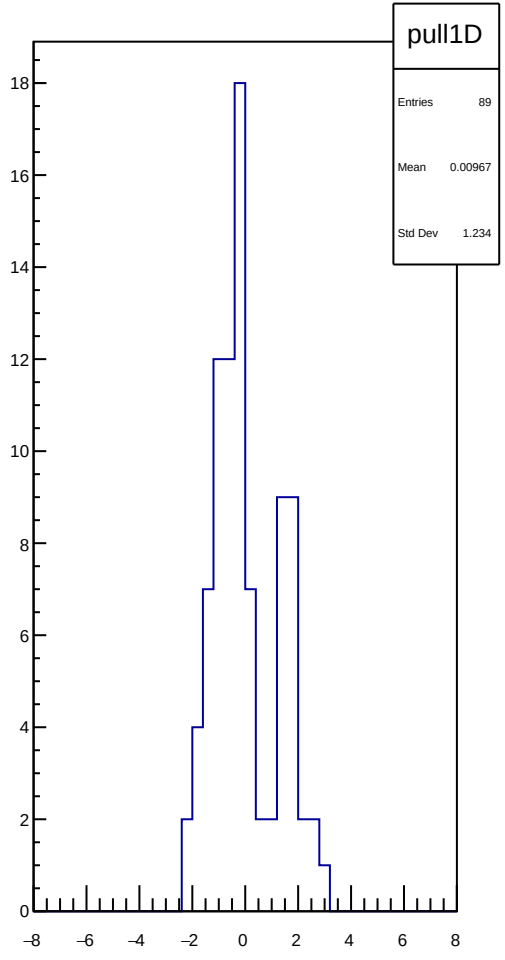

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 103.6 / 88
p0 61.87 ± 1.044
pull
Entries 89
Mean 161.8
Std Dev 0

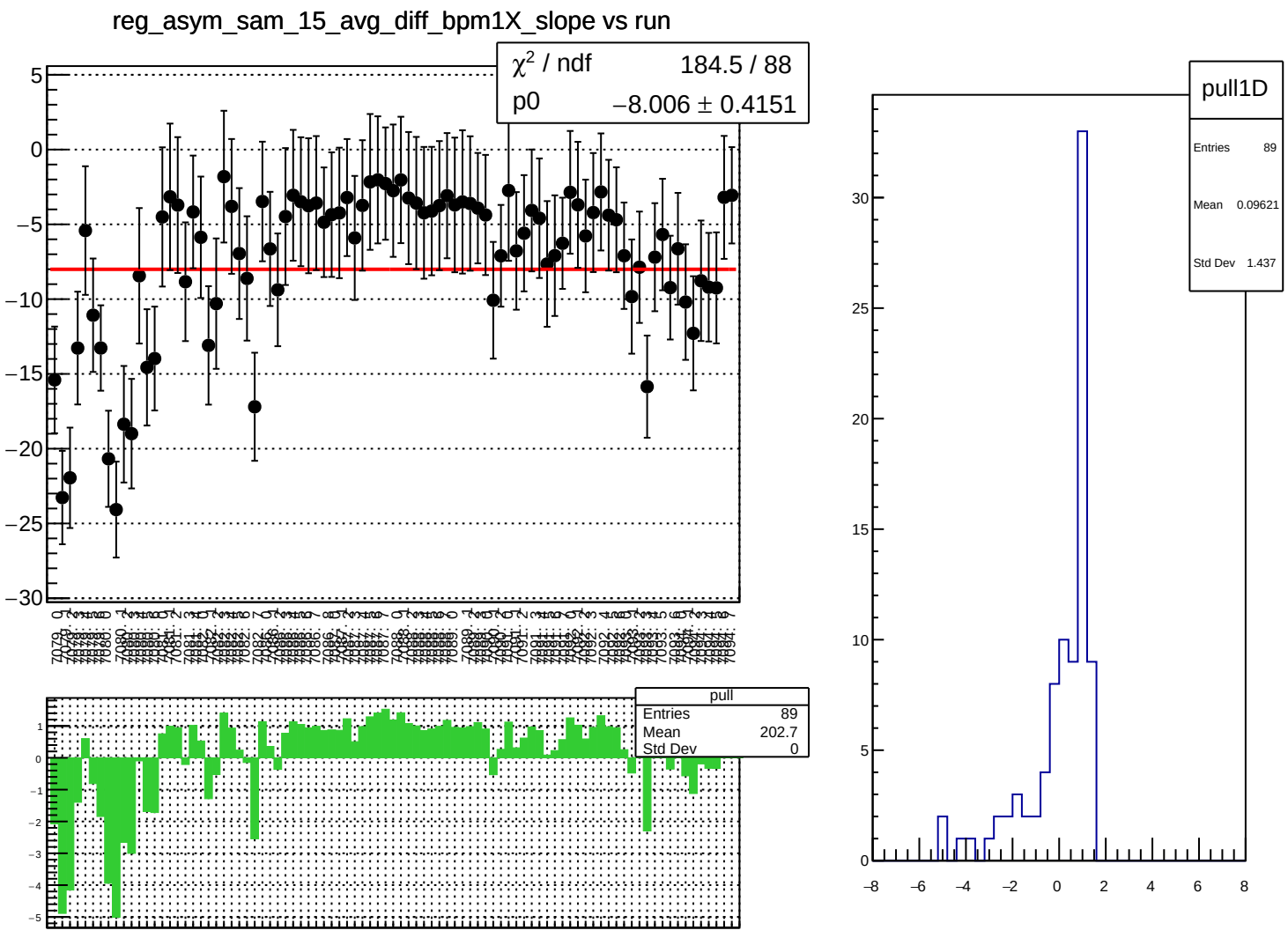

pull1D
Entries 89
Mean 0.07407
Std Dev 1.076

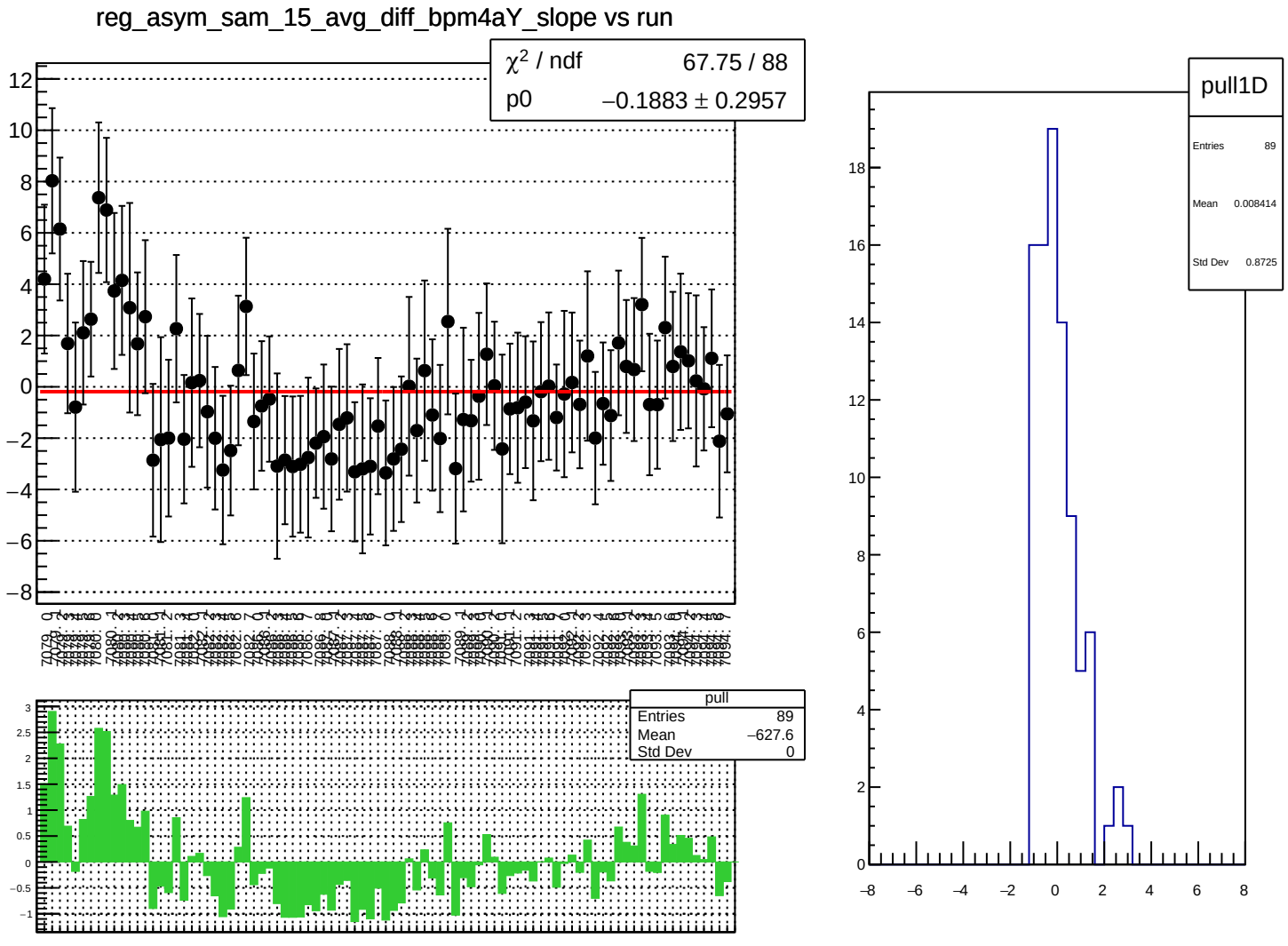

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.04 / 88
p0 12.48 ± 0.8081
pull
Entries 89
Mean 1.318e+04
Std Dev 0

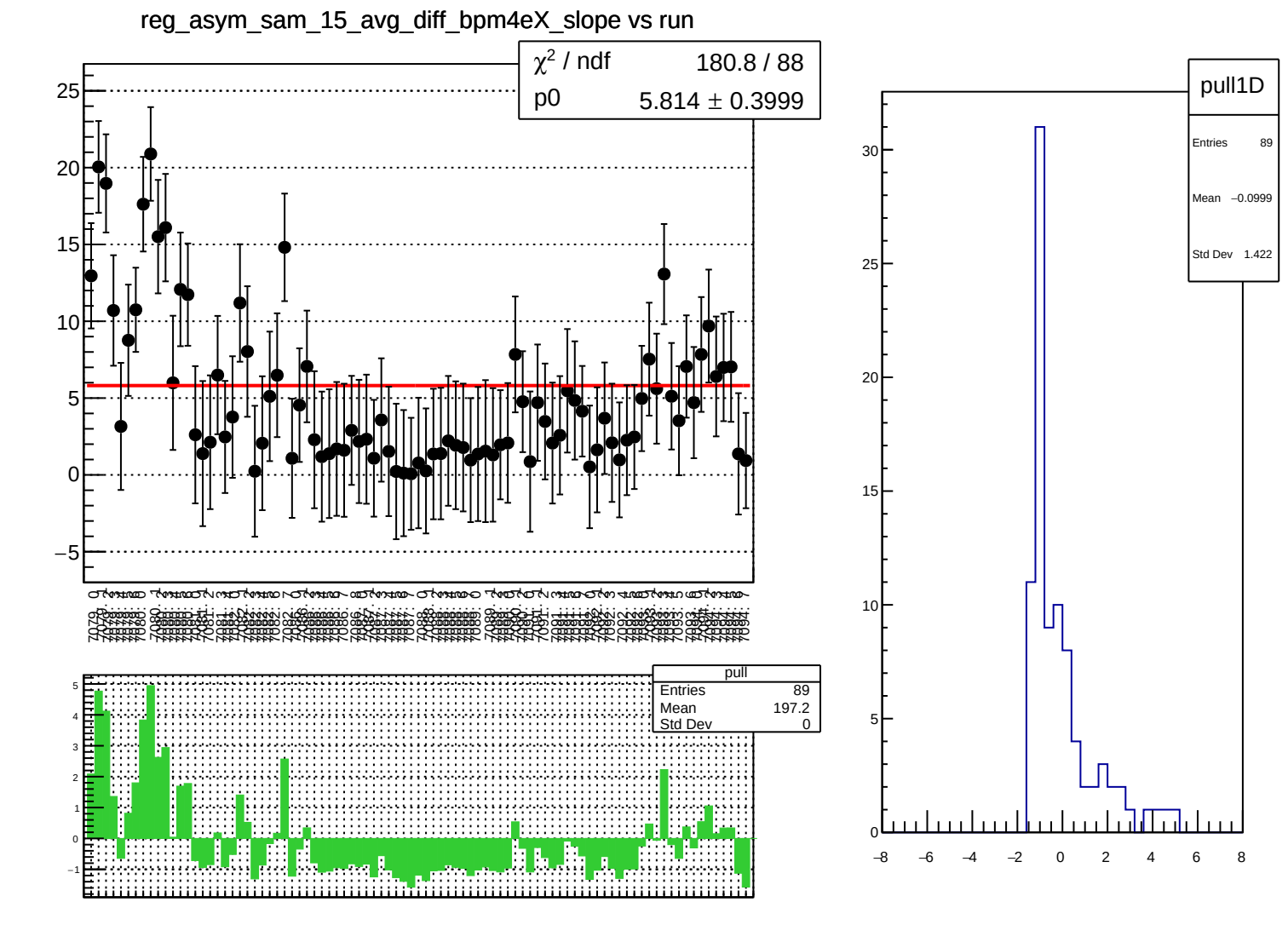

pull1D
Entries 89
Mean −0.0004054
Std Dev 0.8614

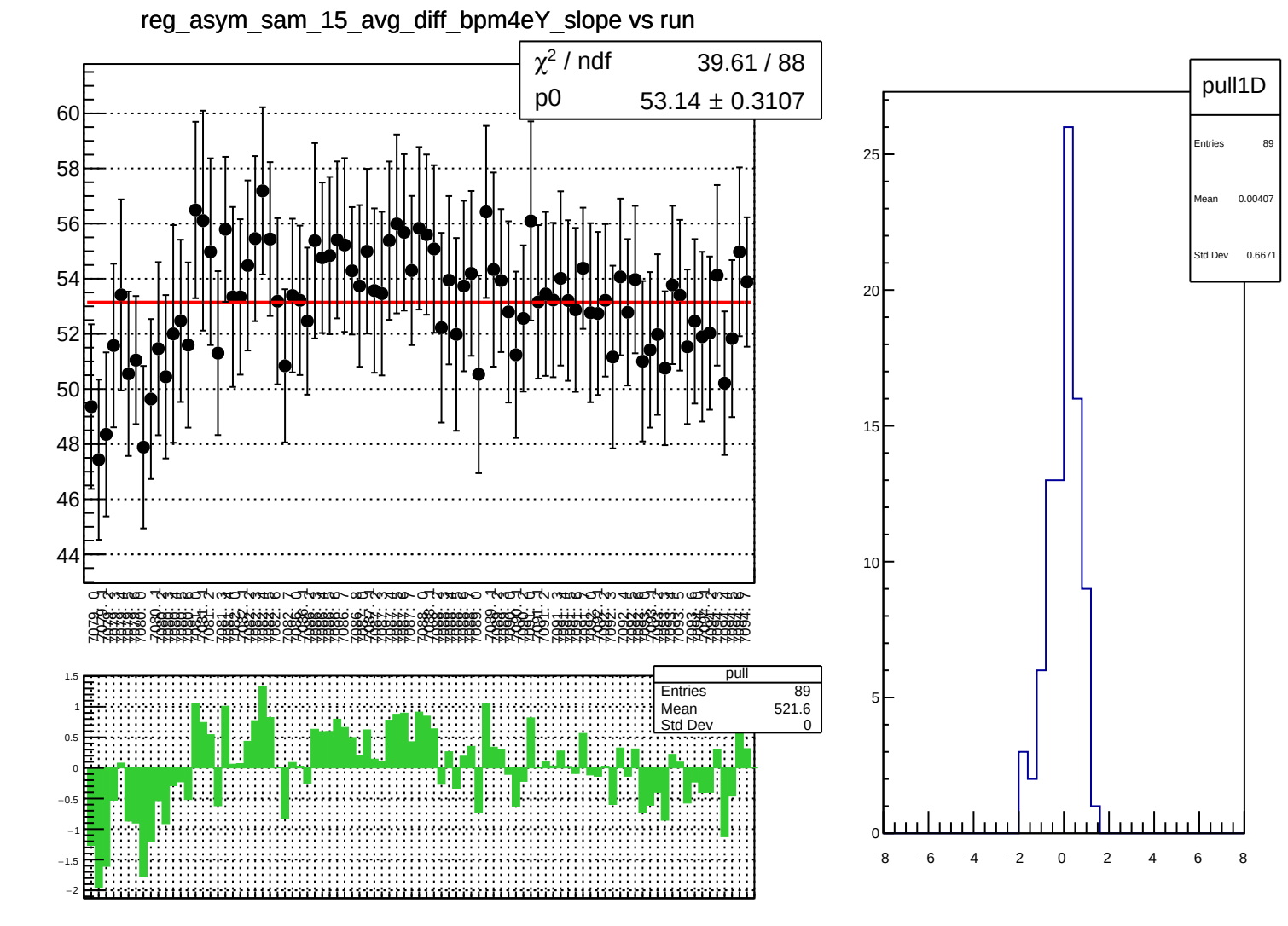

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 135.5 / 88
p0 −19.26 ± 0.03776
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 89
Mean −2134
Std Dev 0
3
2
1
0
−1
−2

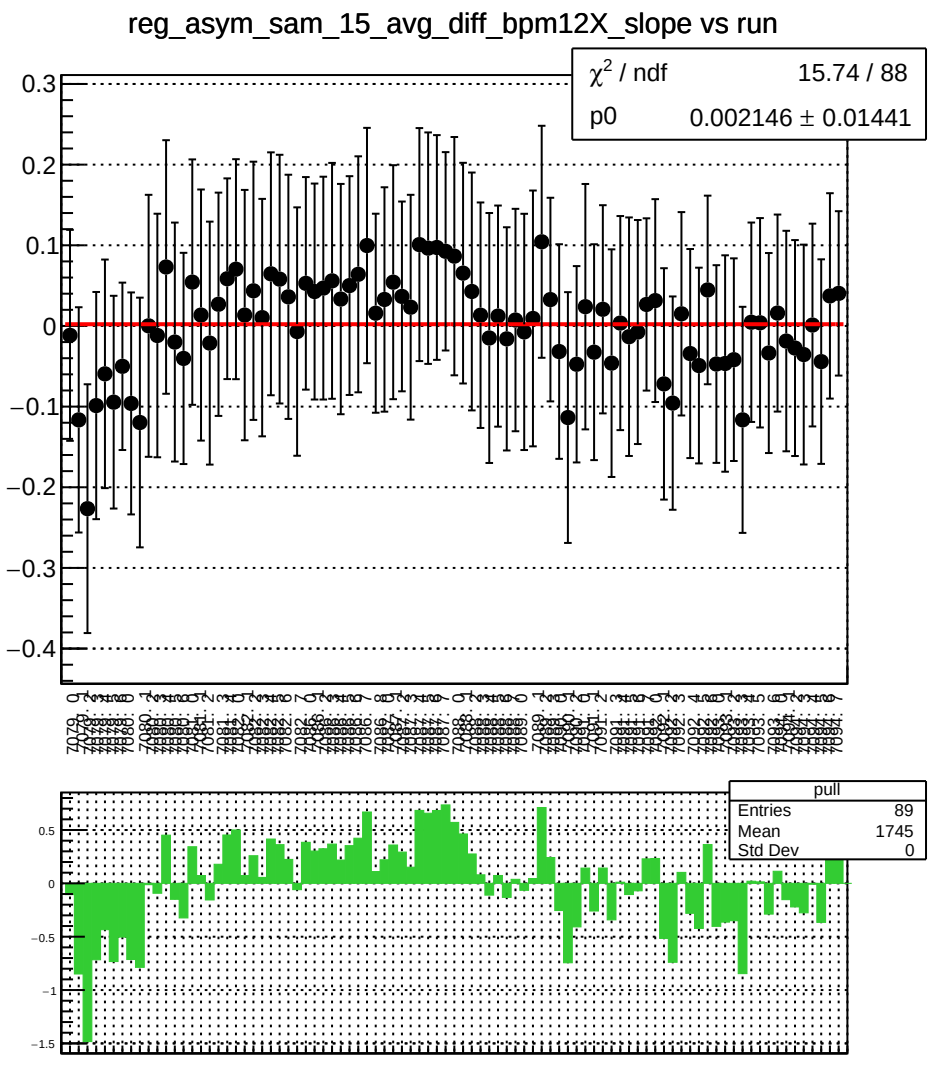

pull1D
Entries 89
Mean 0.00967
Std Dev 1.234
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

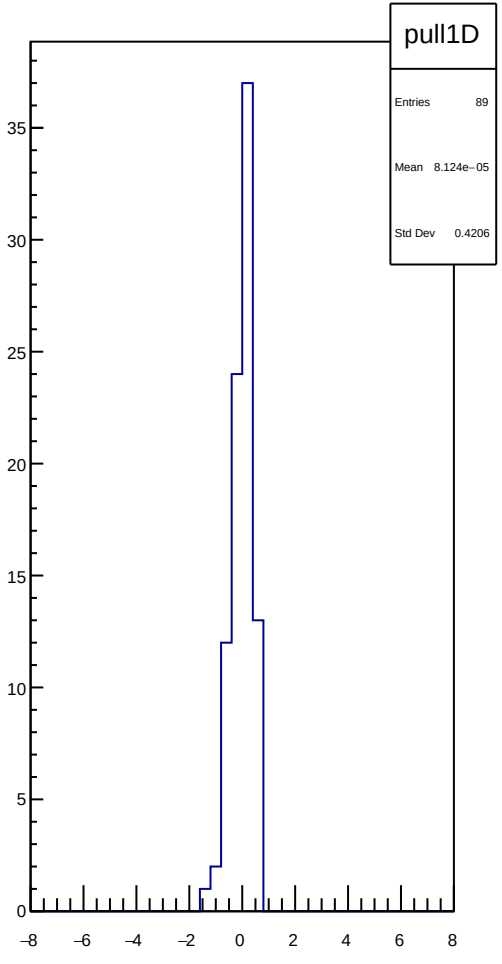

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 184.5 / 88
p0 −8.006 ± 0.4151
pull
Entries 89
Mean 202.7
Std Dev 0
pull1D
Entries 89
Mean 0.09621
Std Dev 1.437

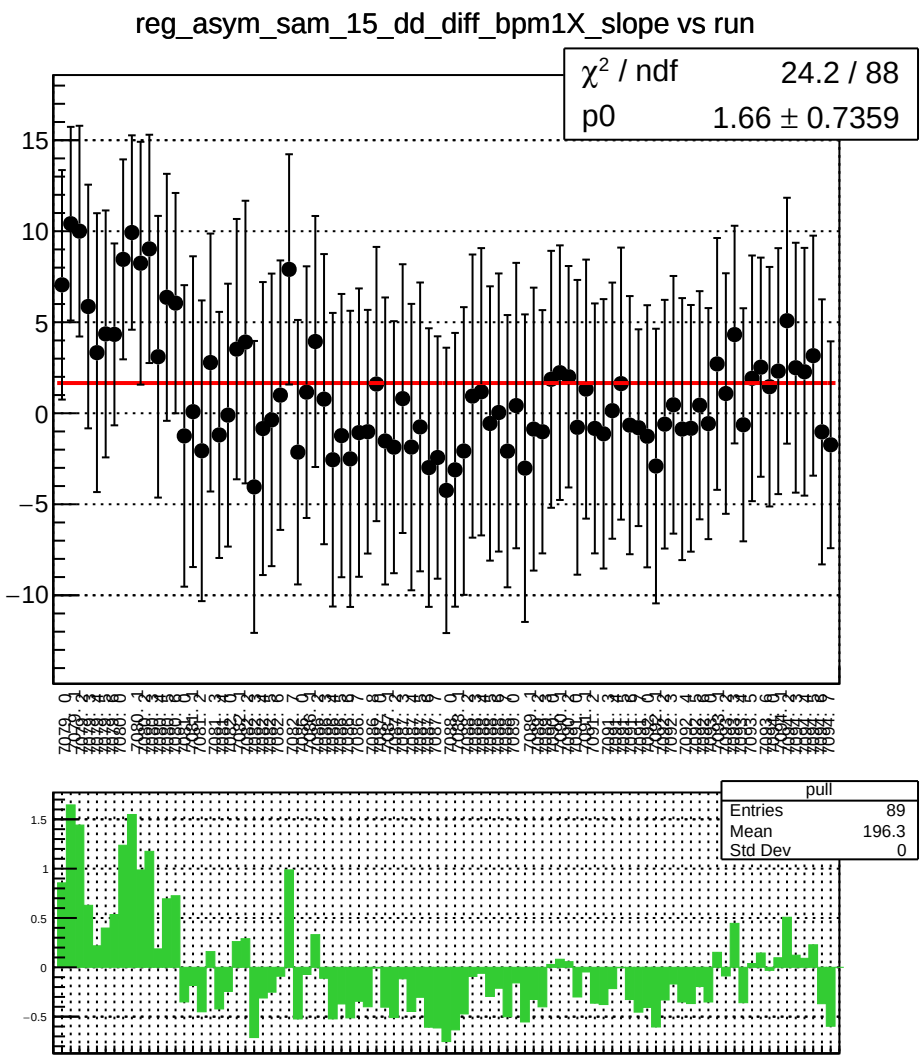

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.75 / 88
p0 −0.1883 ± 0.2957
pull
Entries 89
Mean −627.6
Std Dev 0
pull1D
Entries 89
Mean 0.008414
Std Dev 0.8725

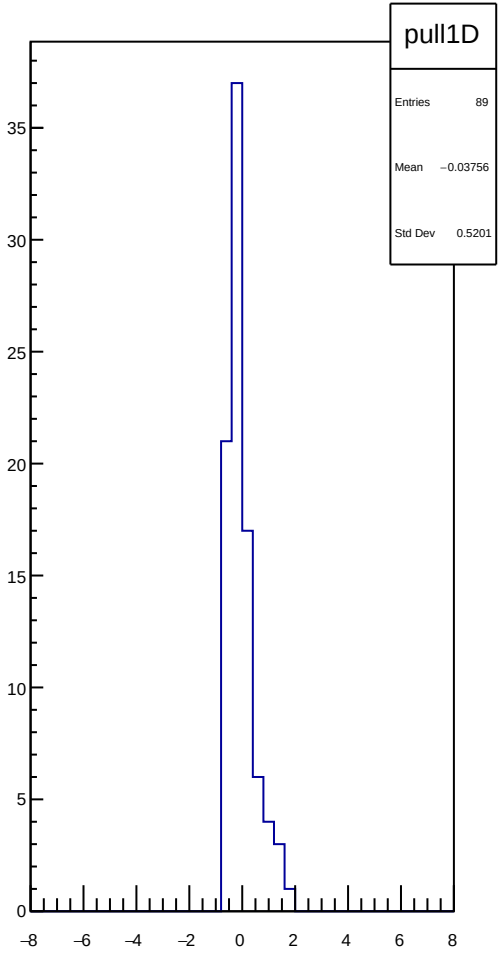

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 180.8 / 88
p0 5.814 ± 0.3999
pull
Entries 89
Mean 197.2
Std Dev 0
pull1D
Entries 89
Mean −0.0999
Std Dev 1.422

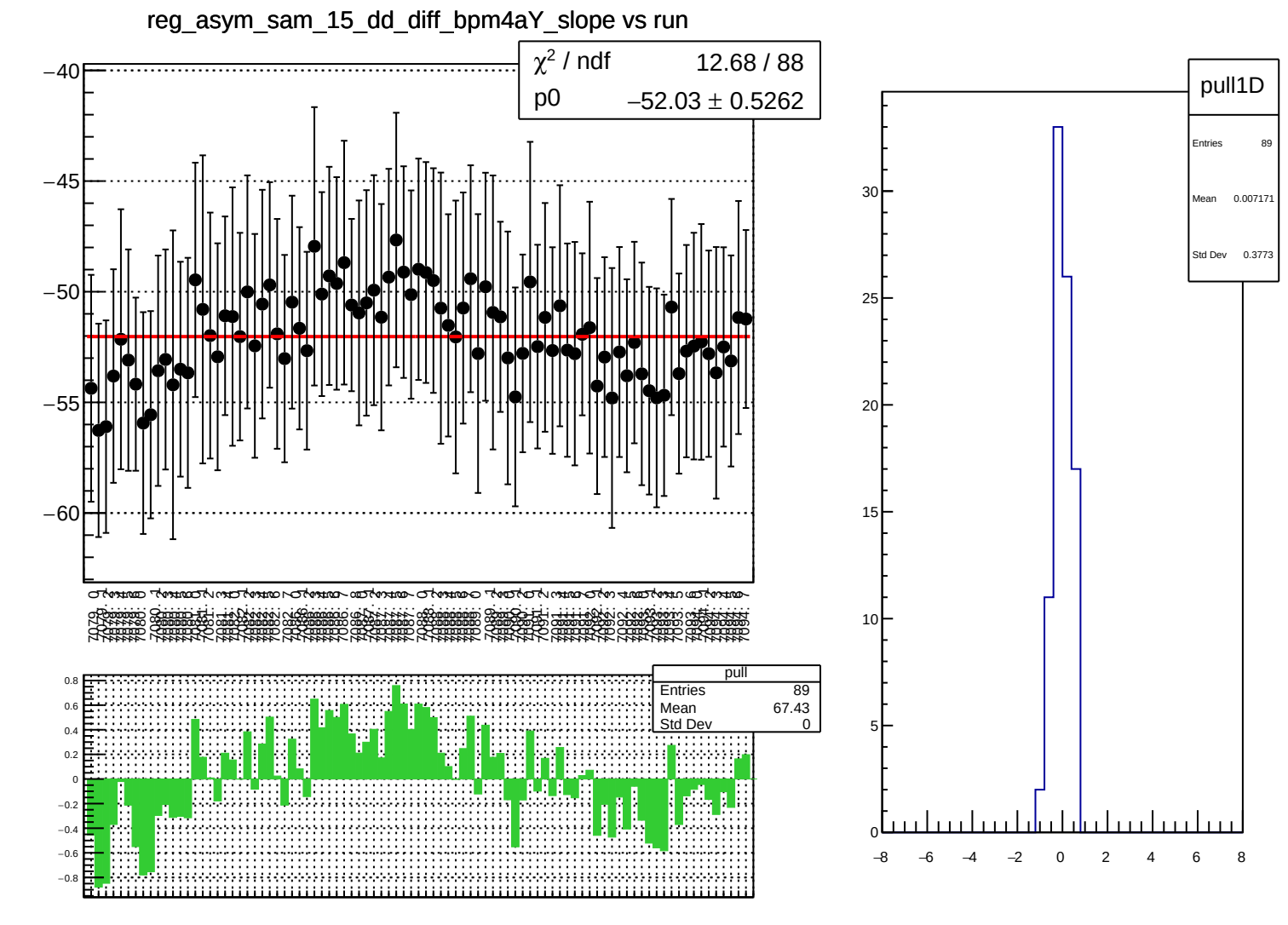

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.61 / 88
p0 53.14 ± 0.3107
pull
Entries 89
Mean 521.6
Std Dev 0
pull1D
Entries 89
Mean 0.00407
Std Dev 0.6671

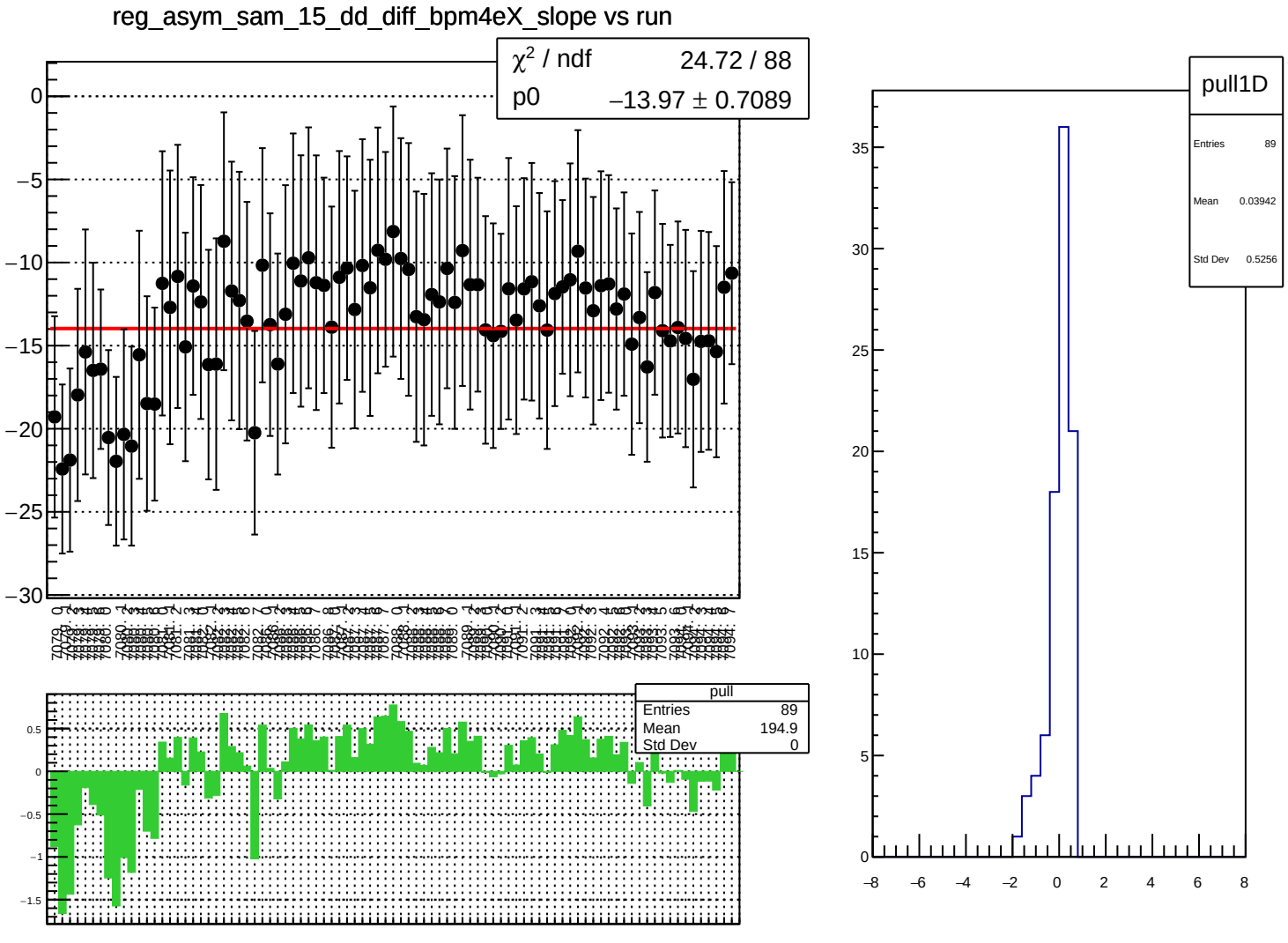

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 15.74 / 88
p0 0.002146 ± 0.01441
pull
Entries 89
Mean 1745
Std Dev 0

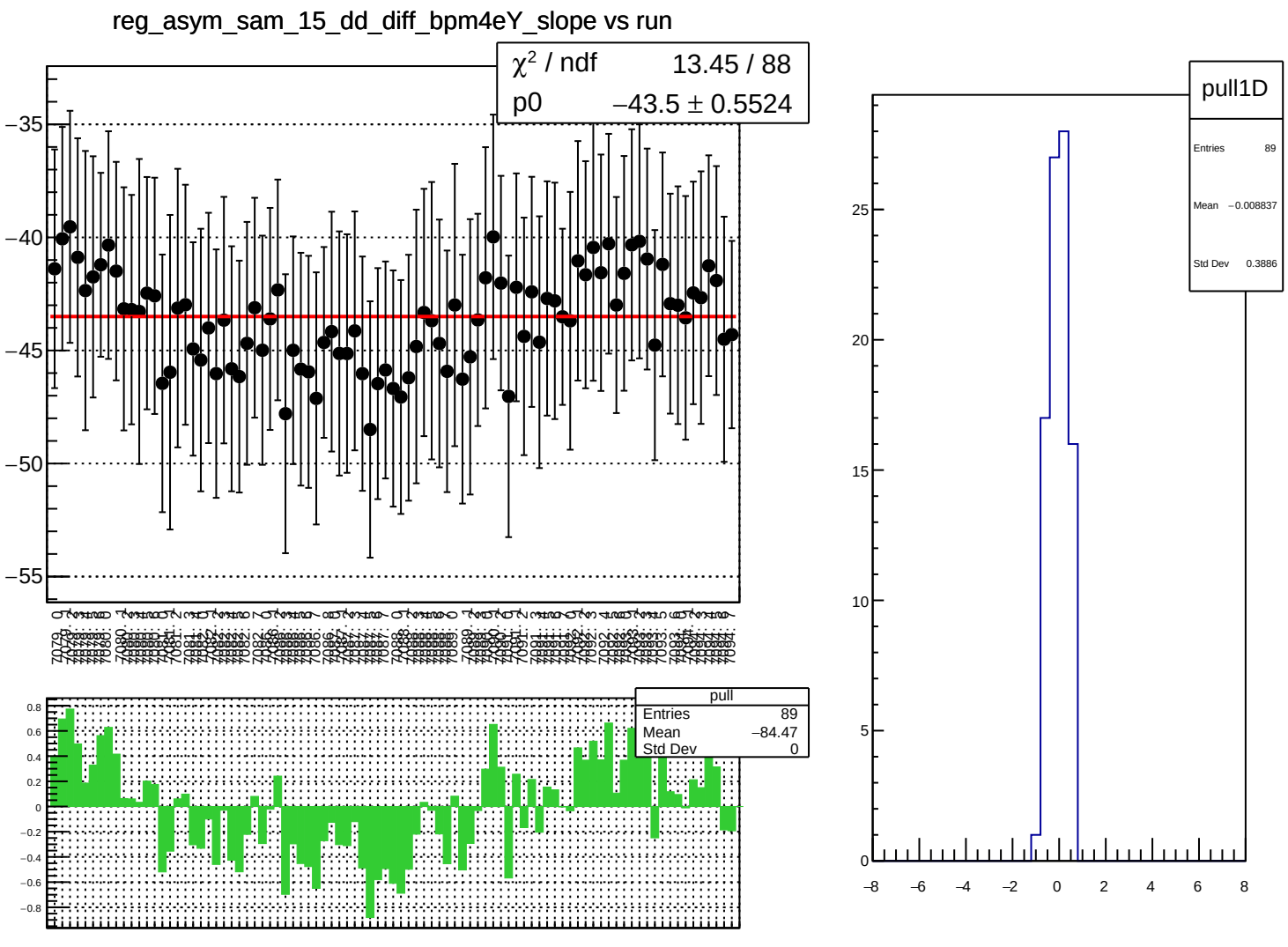

pull1D
Entries 89
Mean 8.124e−05
Std Dev 0.4206

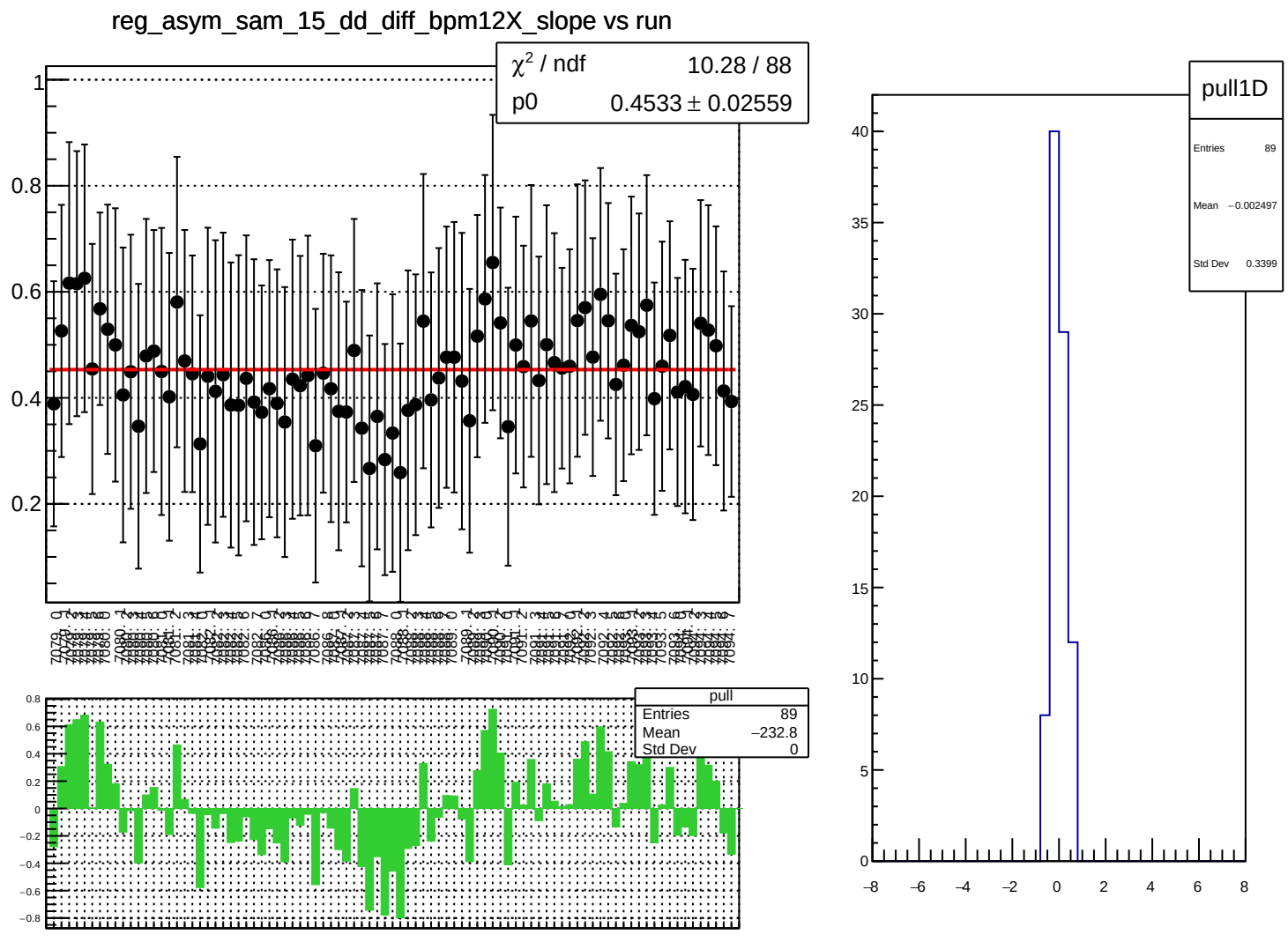

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 24.2 / 88
p0 1.66 ± 0.7359
pull
Entries 89
Mean 196.3
Std Dev 0

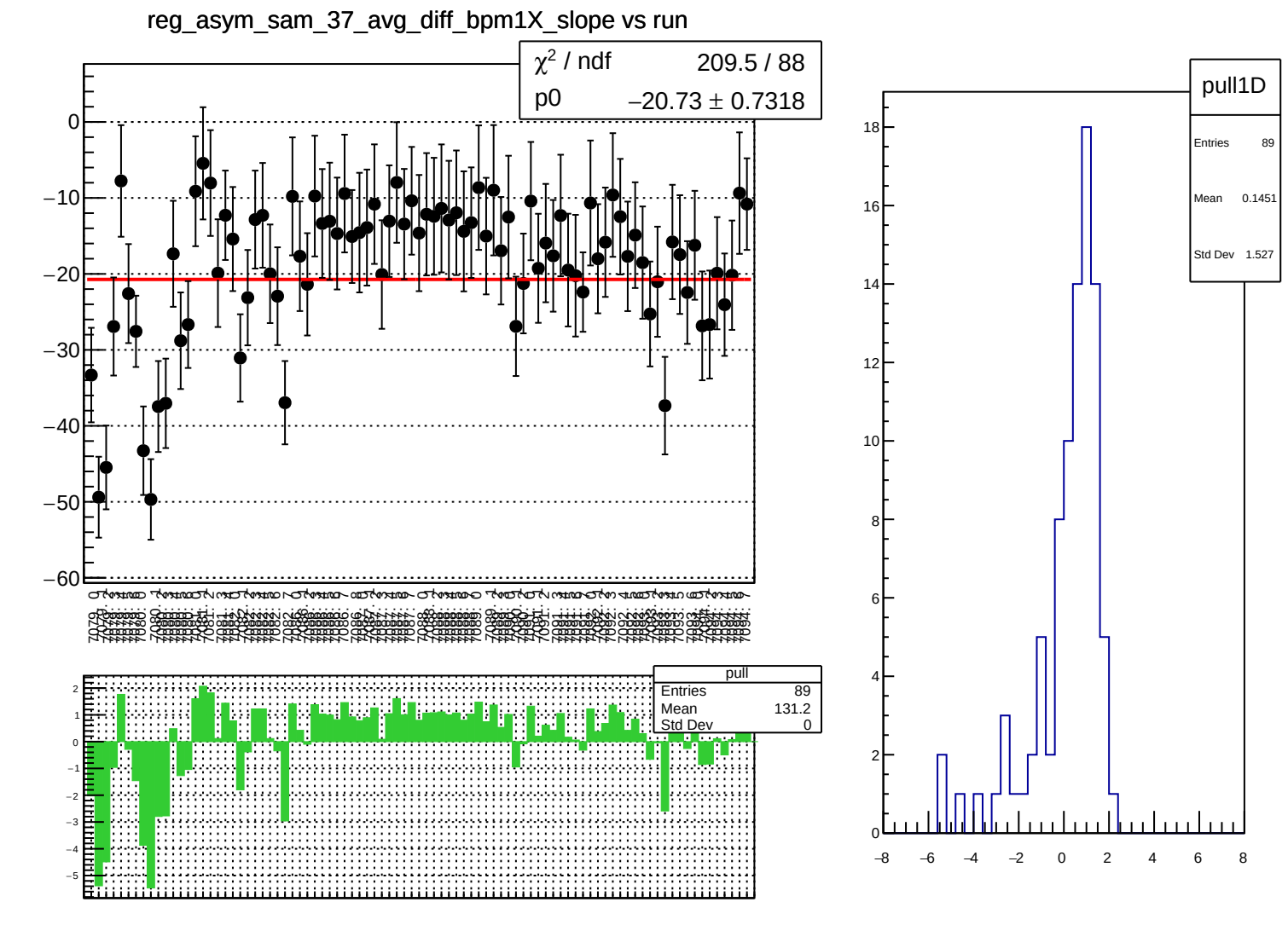

pull1D
Entries 89
Mean −0.03756
Std Dev 0.5201

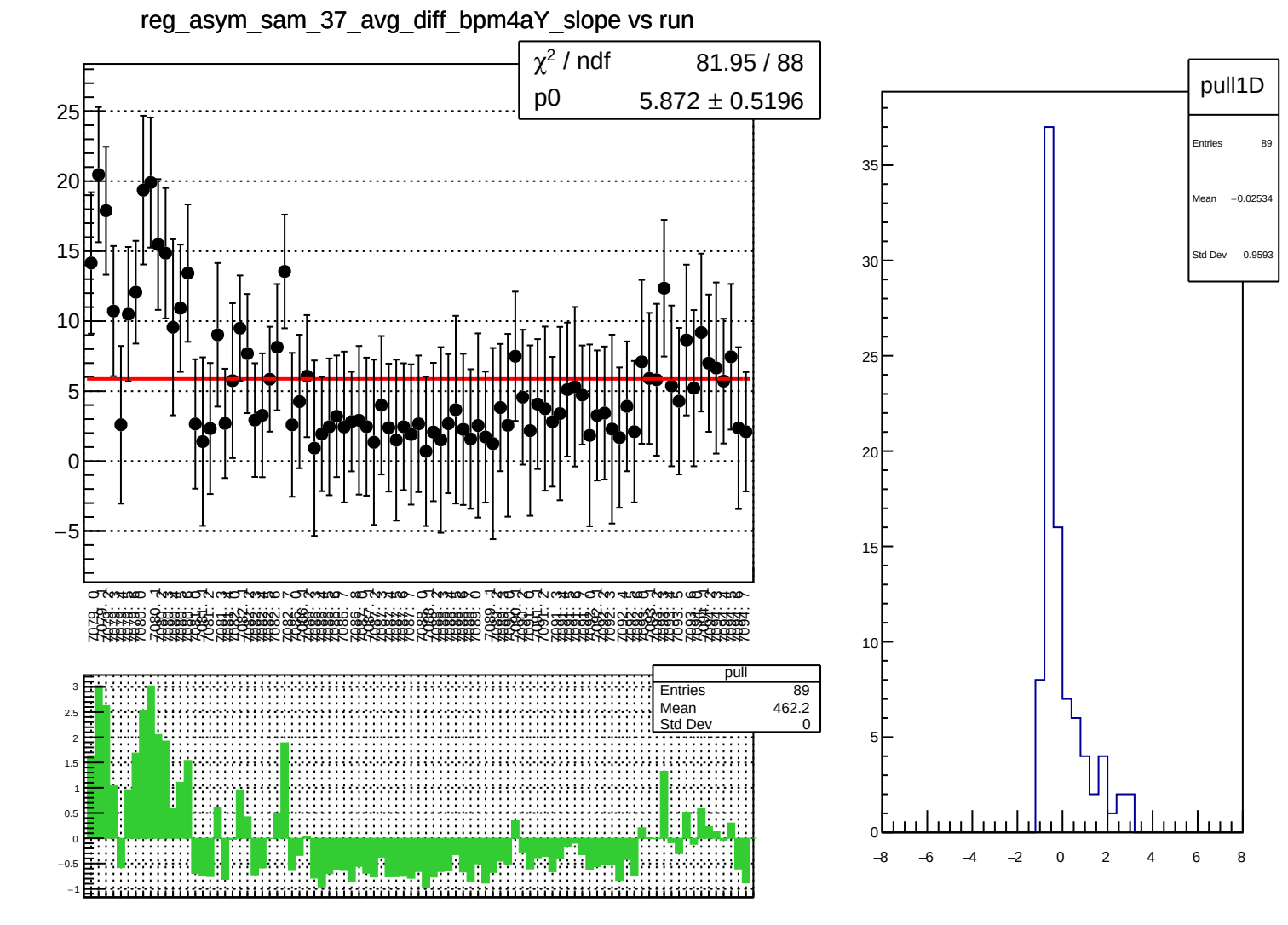

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.68 / 88
p0 −52.03 ± 0.5262
−40
−45
−50
−55
−60
pull
Entries 89
Mean 67.43
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean 0.007171
Std Dev 0.3773
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

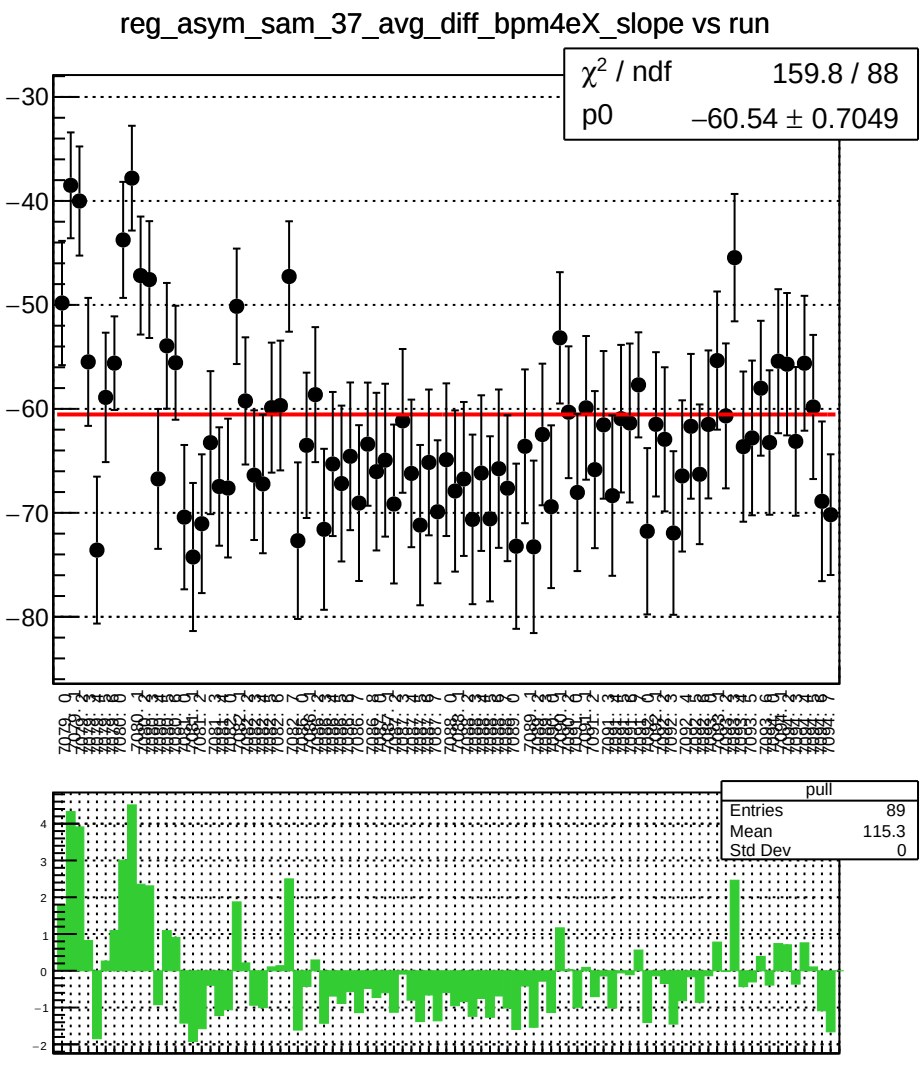

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.72 / 88
p0 −13.97 ± 0.7089
pull
Entries 89
Mean 194.9
Std Dev 0
pull1D
Entries 89
Mean 0.03942
Std Dev 0.5256

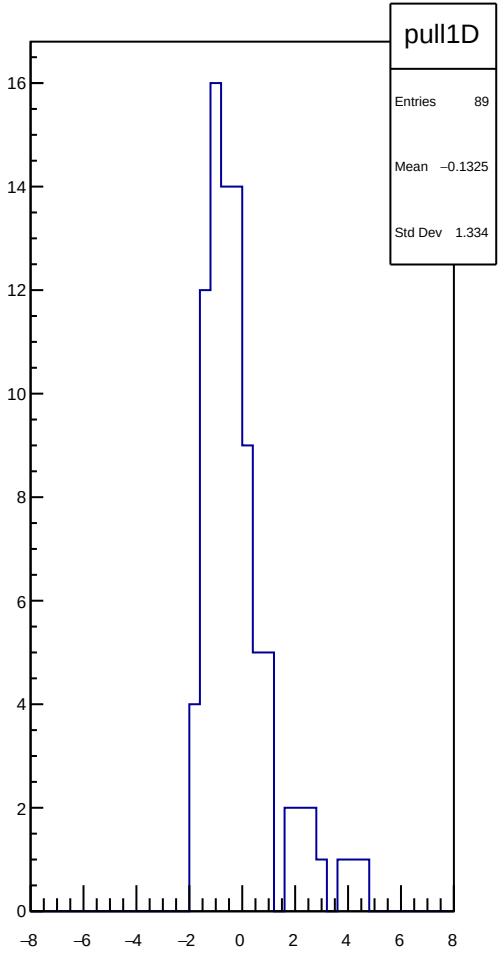

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.45 / 88
p0 −43.5 ± 0.5524
−35
−40
−45
−50
−55
pull
Entries 89
Mean −84.47
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean −0.008837
Std Dev 0.3886
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

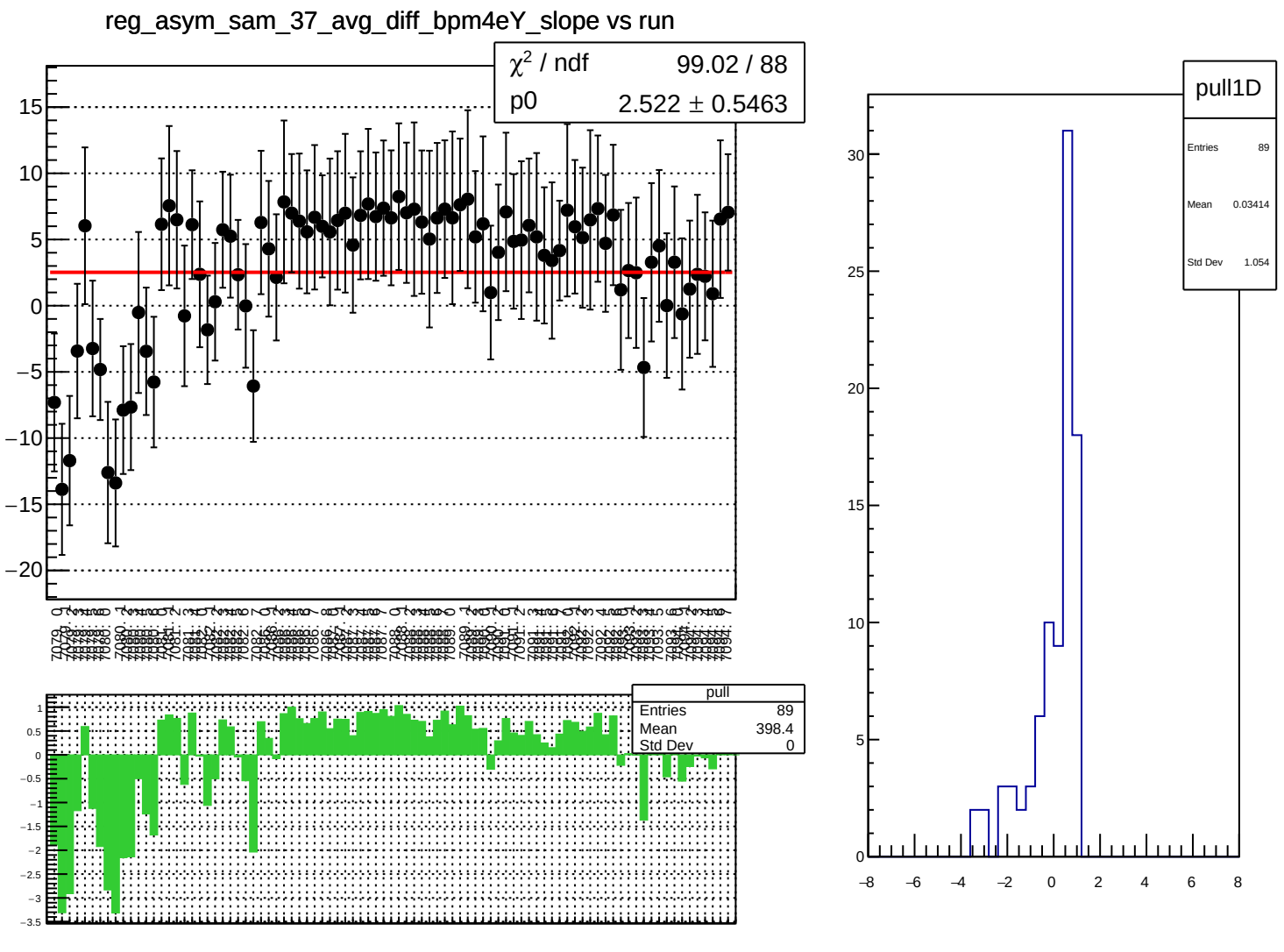

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 10.28 / 88
p0 0.4533 ± 0.02559
pull
Entries 89
Mean −232.8
Std Dev 0
pull1D
Entries 89
Mean −0.002497
Std Dev 0.3399

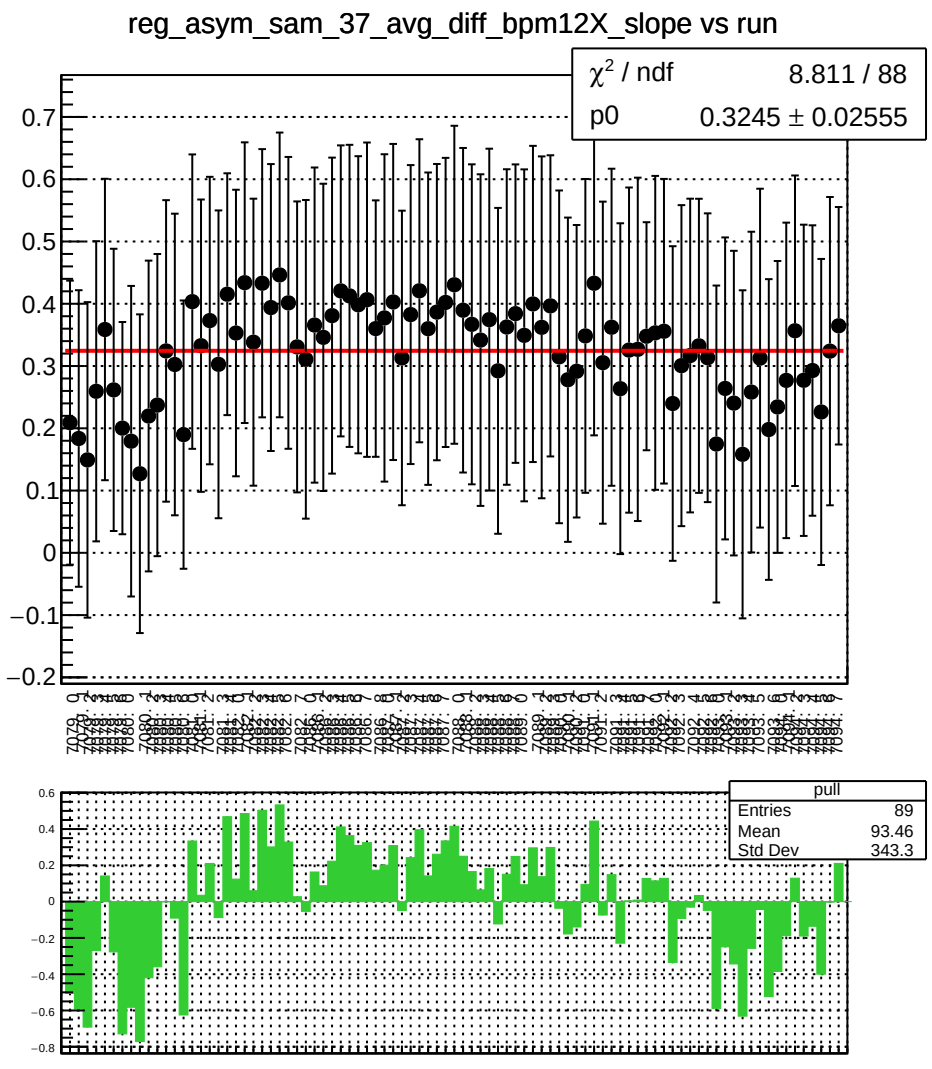

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 209.5 / 88
p0 −20.73 ± 0.7318
pull
Entries 89
Mean 131.2
Std Dev 0
pull1D
Entries 89
Mean 0.1451
Std Dev 1.527

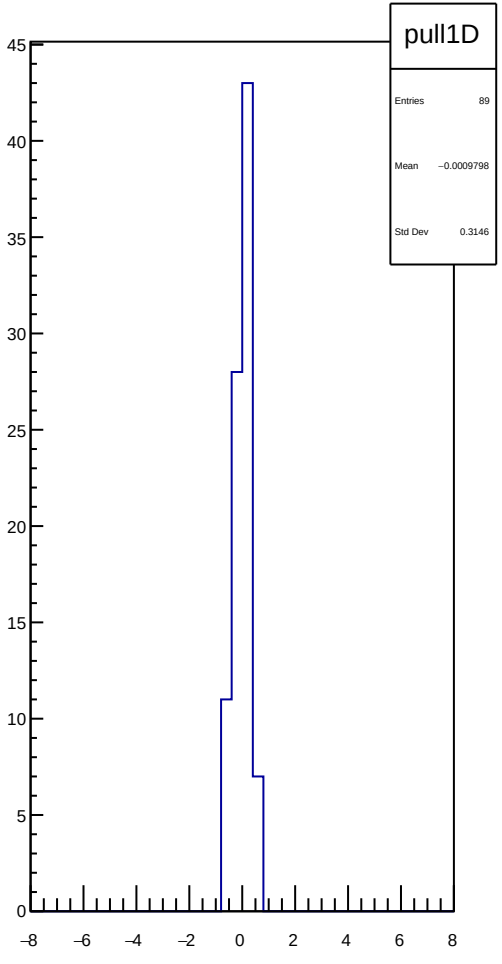

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 81.95 / 88
p0 5.872 ± 0.5196
pull
Entries 89
Mean 462.2
Std Dev 0
pull1D
Entries 89
Mean −0.02534
Std Dev 0.9593

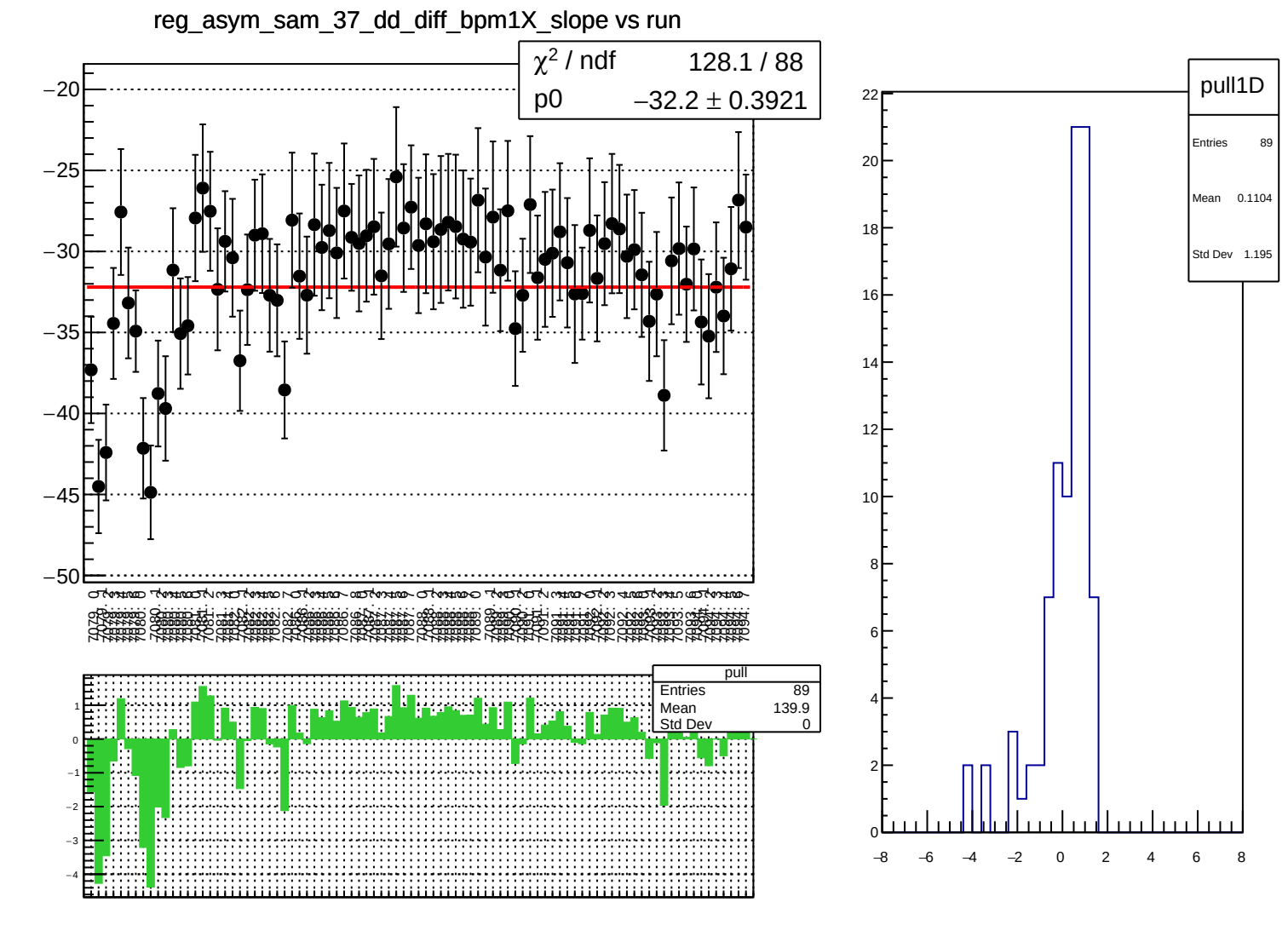

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 159.8 / 88
p0 −60.54 ± 0.7049
pull
Entries 89
Mean 115.3
Std Dev 0

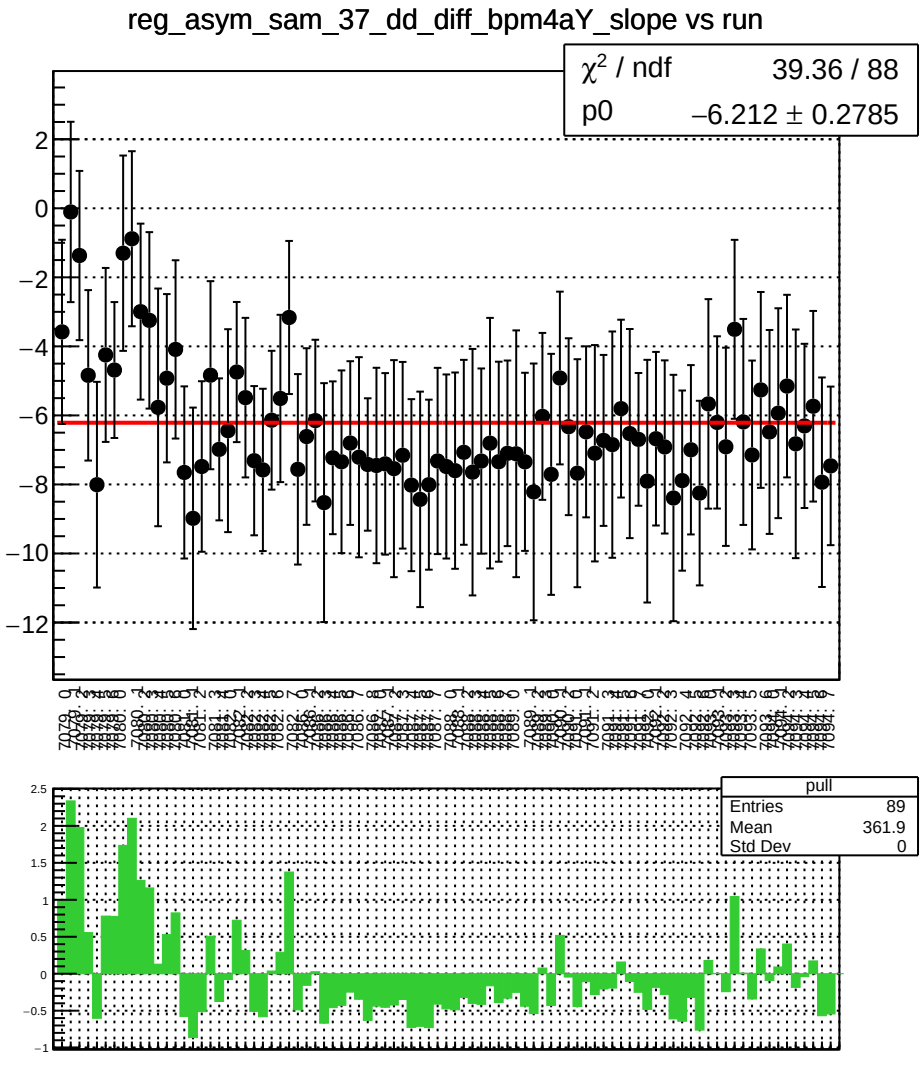

pull1D
Entries 89
Mean −0.1325
Std Dev 1.334

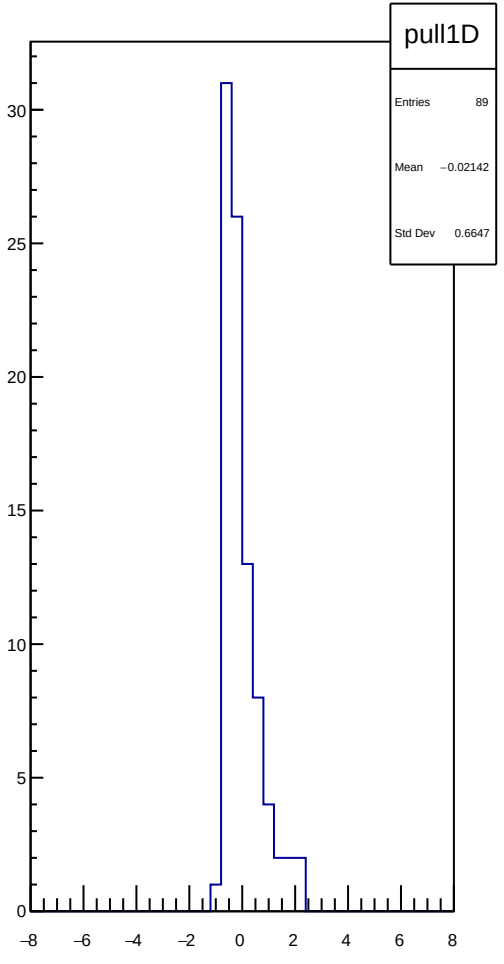

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 99.02 / 88
p0 2.522 ± 0.5463
pull
Entries 89
Mean 398.4
Std Dev 0
pull1D
Entries 89
Mean 0.03414
Std Dev 1.054

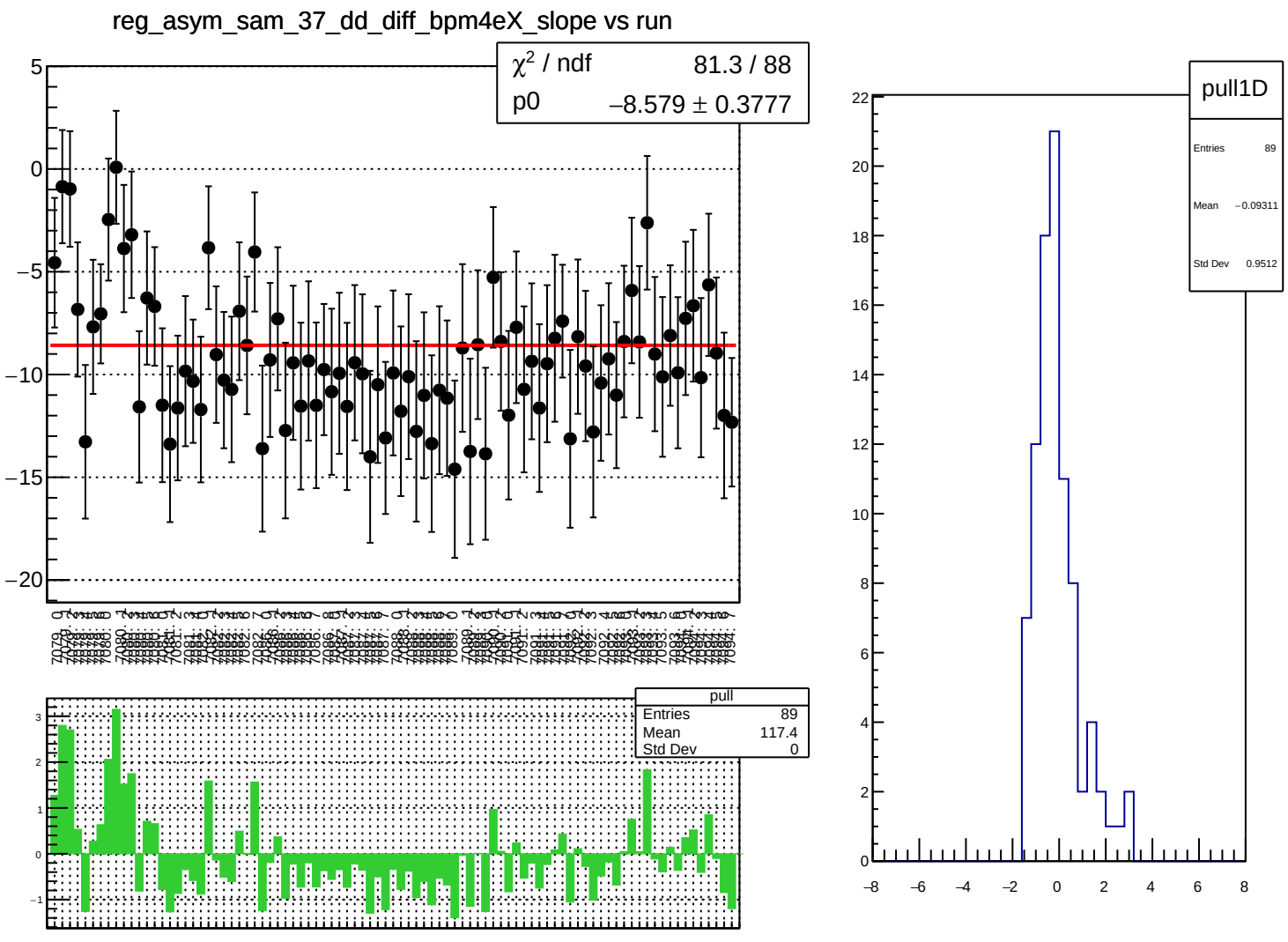

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 8.811 / 88
p0 0.3245 ± 0.02555
pull
Entries 89
Mean 93.46
Std Dev 343.3

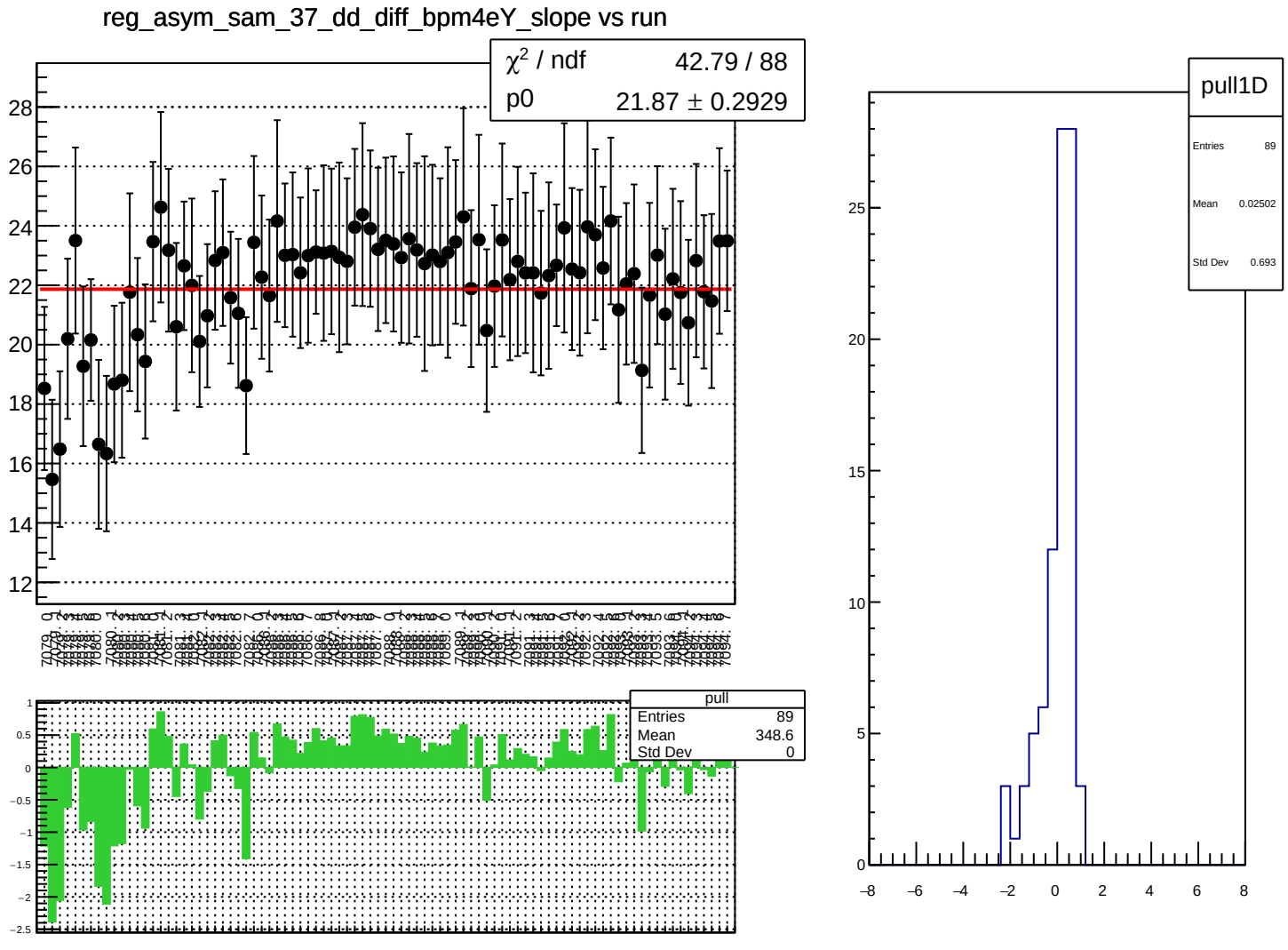

pull1D
Entries 89
Mean −0.0009798
Std Dev 0.3146

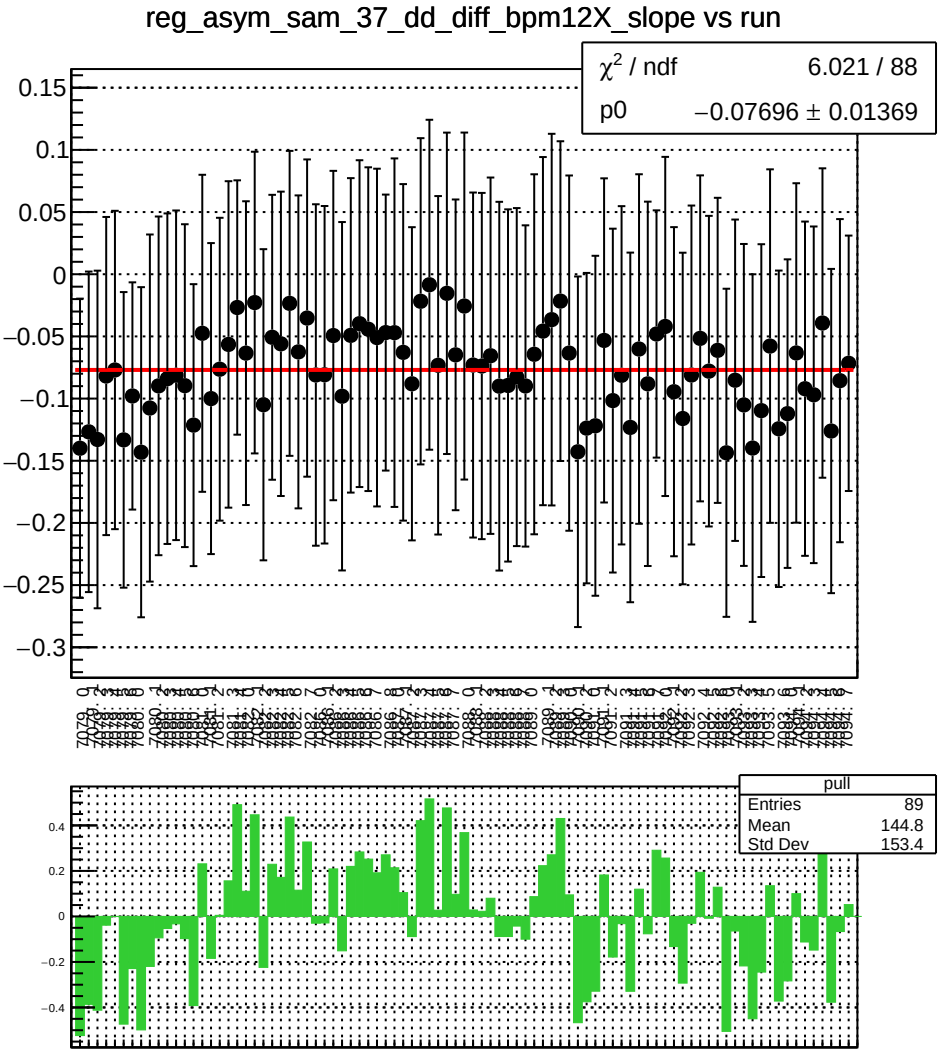

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 128.1 / 88
p0 −32.2 ± 0.3921
pull
Entries 89
Mean 139.9
Std Dev 0
pull1D
Entries 89
Mean 0.1104
Std Dev 1.195

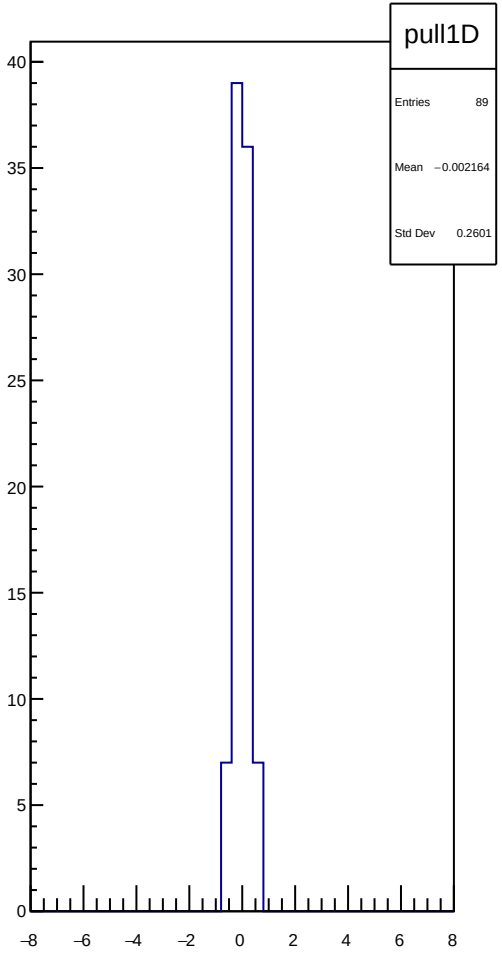

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.36 / 88
p0 −6.212 ± 0.2785
pull
Entries 89
Mean 361.9
Std Dev 0

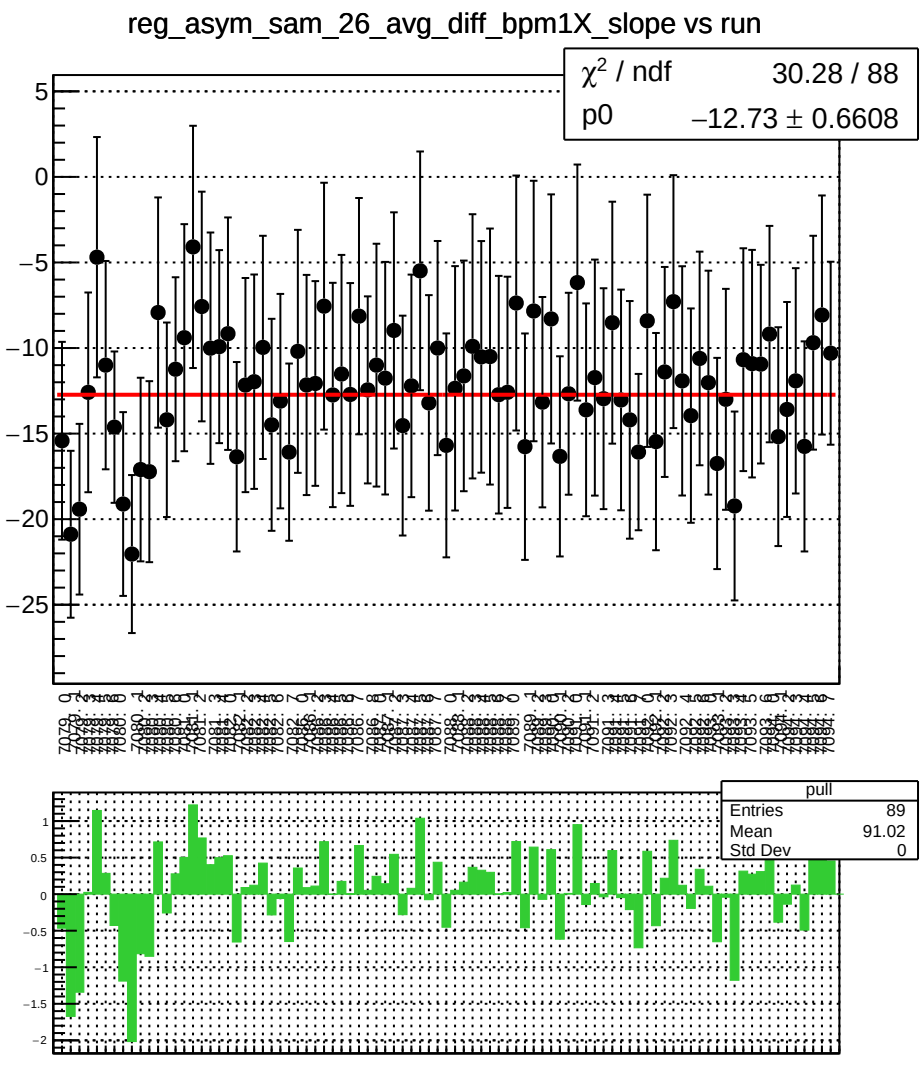

pull1D
Entries 89
Mean −0.02142
Std Dev 0.6647

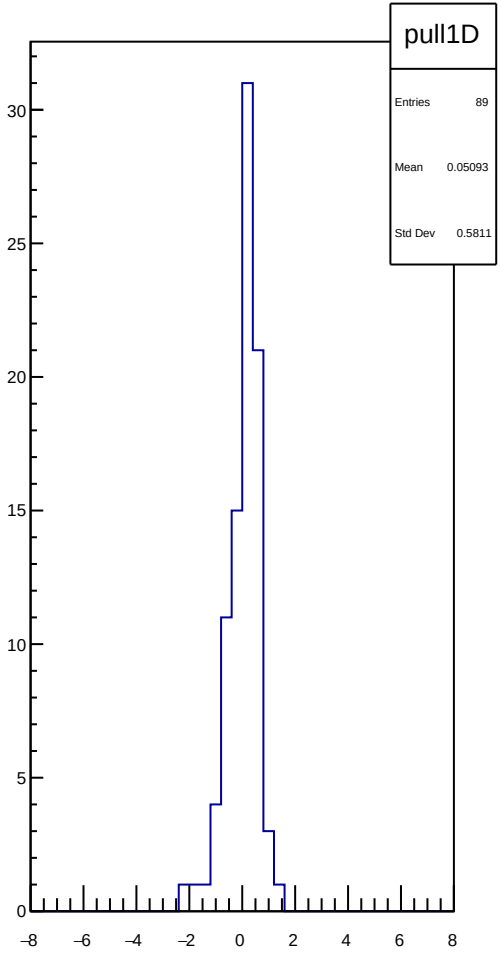

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.3 / 88
p0 −8.579 ± 0.3777
pull
Entries 89
Mean 117.4
Std Dev 0
pull1D
Entries 89
Mean −0.09311
Std Dev 0.9512

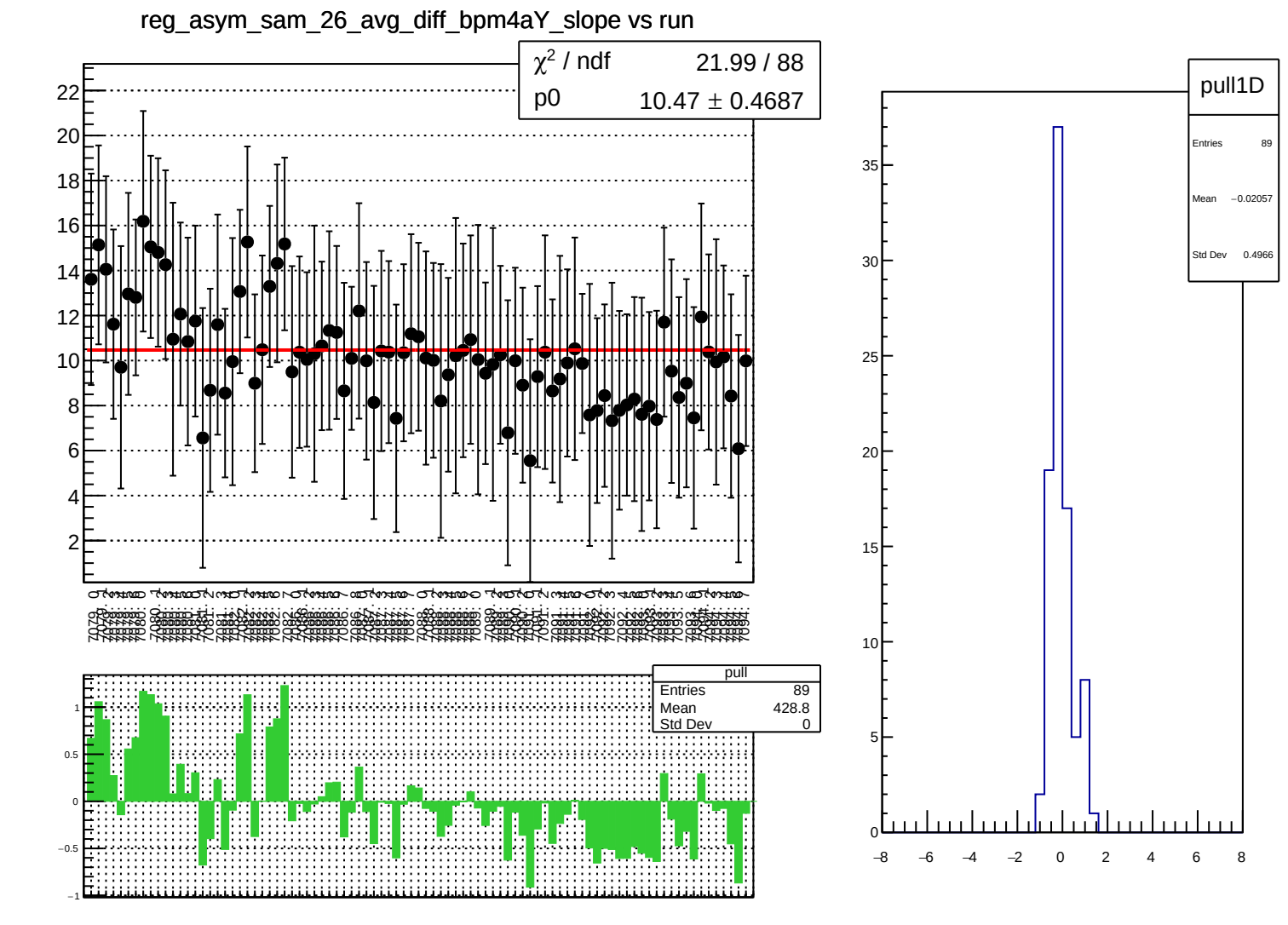

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.79 / 88
p0 21.87 ± 0.2929
pull
Entries 89
Mean 348.6
Std Dev 0
pull1D
Entries 89
Mean 0.02502
Std Dev 0.693

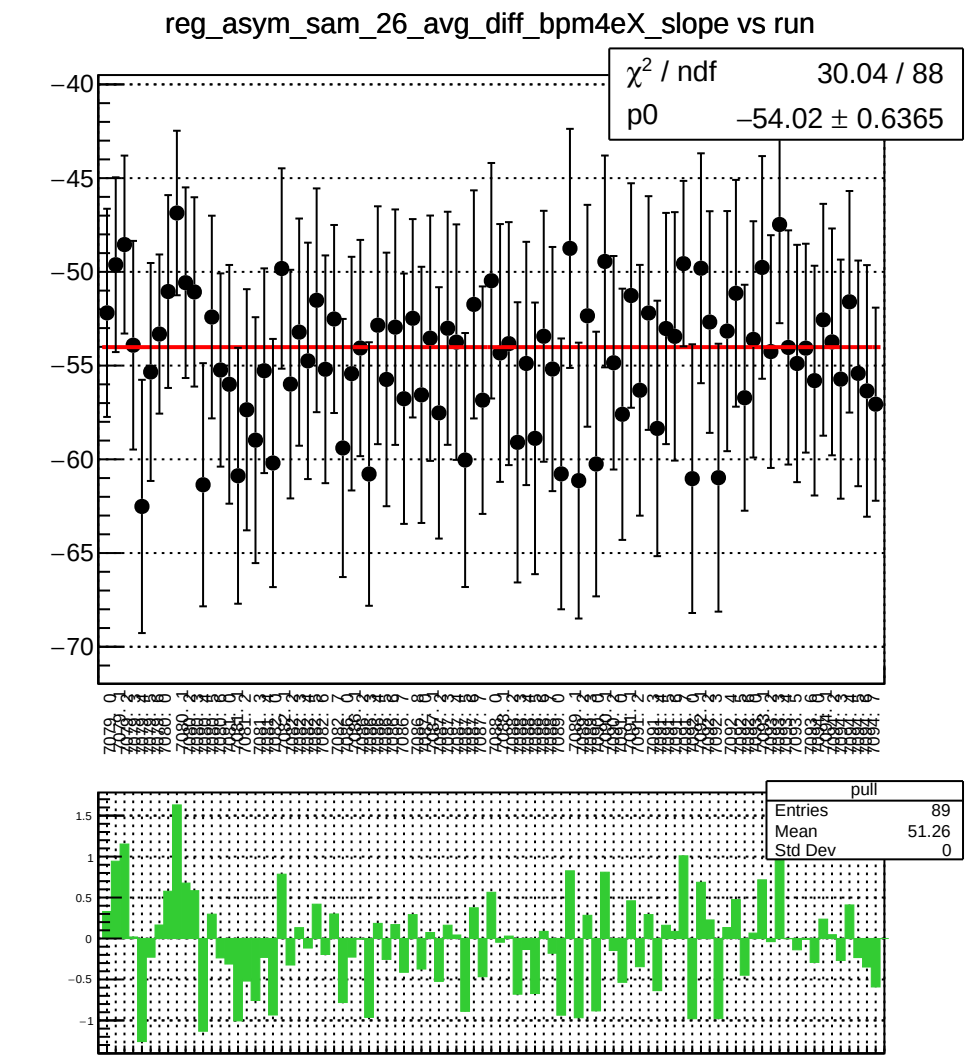

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.021 / 88
p0 −0.07696 ± 0.01369
pull
Entries 89
Mean 144.8
Std Dev 153.4

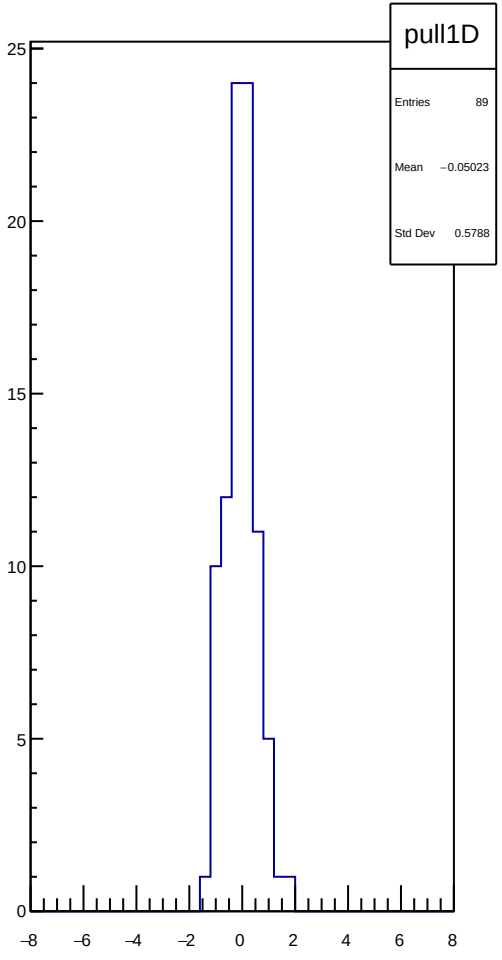

pull1D
Entries 89
Mean −0.002164
Std Dev 0.2601

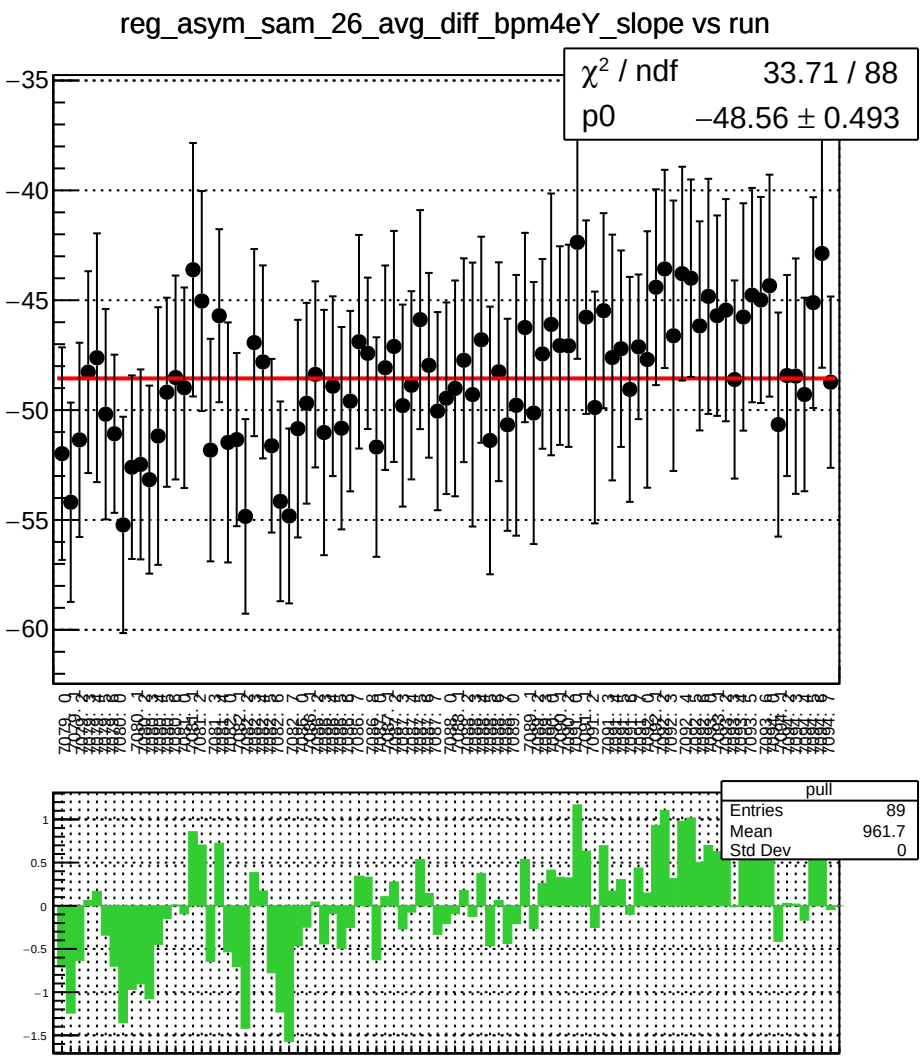

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 30.28 / 88
p0 −12.73 ± 0.6608
pull
Entries 89
Mean 91.02
Std Dev 0

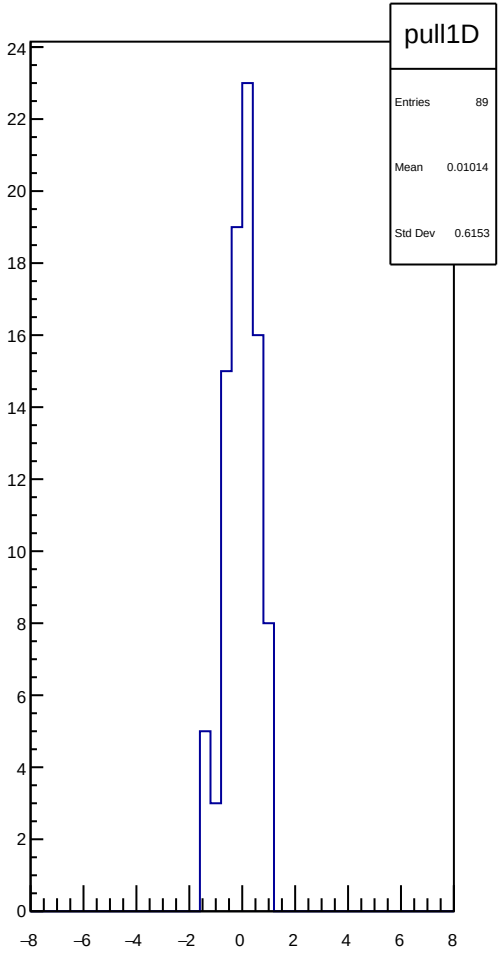

pull1D
Entries 89
Mean 0.05093
Std Dev 0.5811

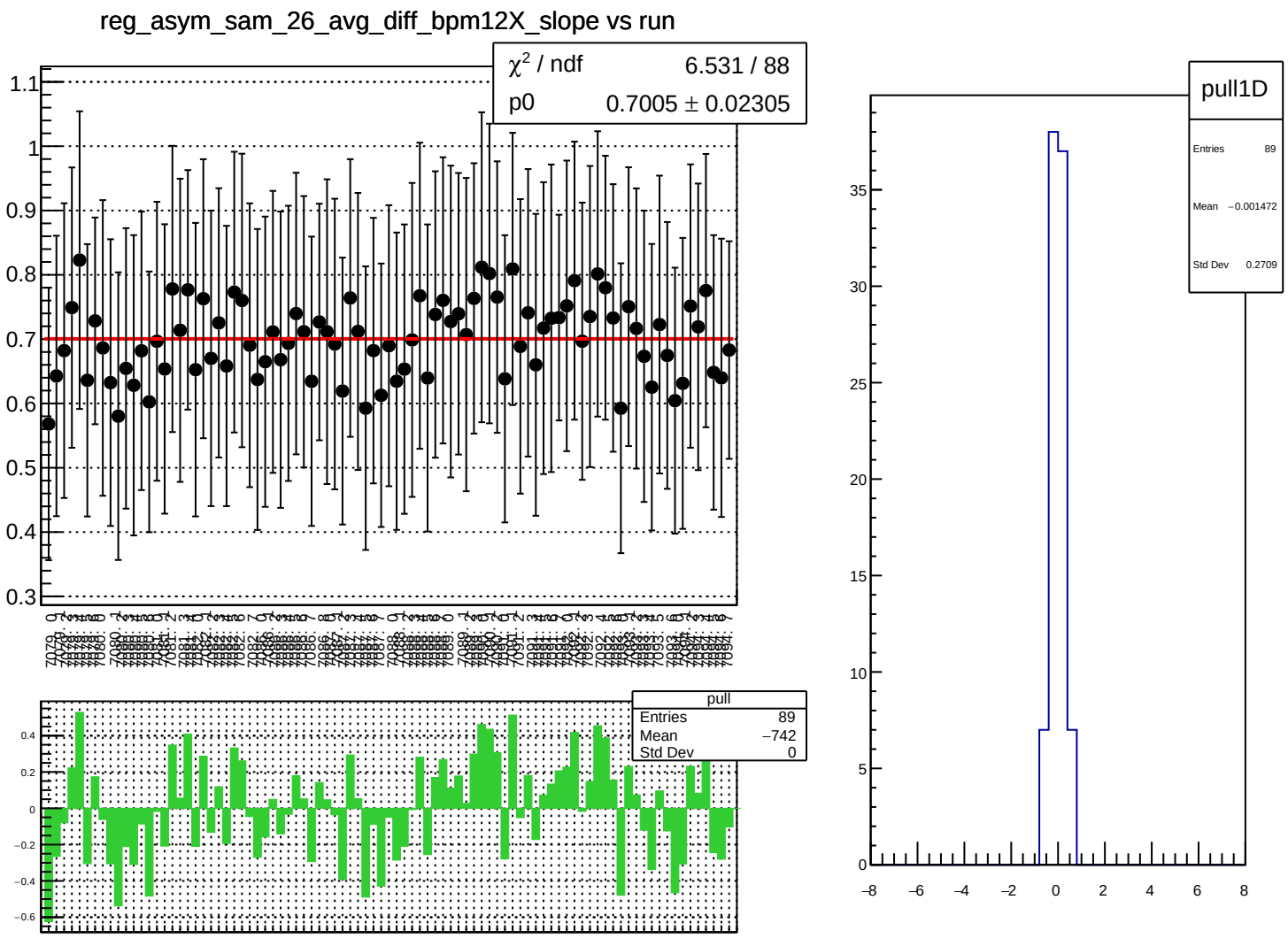

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.99 / 88
p0 10.47 ± 0.4687
pull
Entries 89
Mean 428.8
Std Dev 0
pull1D
Entries 89
Mean −0.02057
Std Dev 0.4966

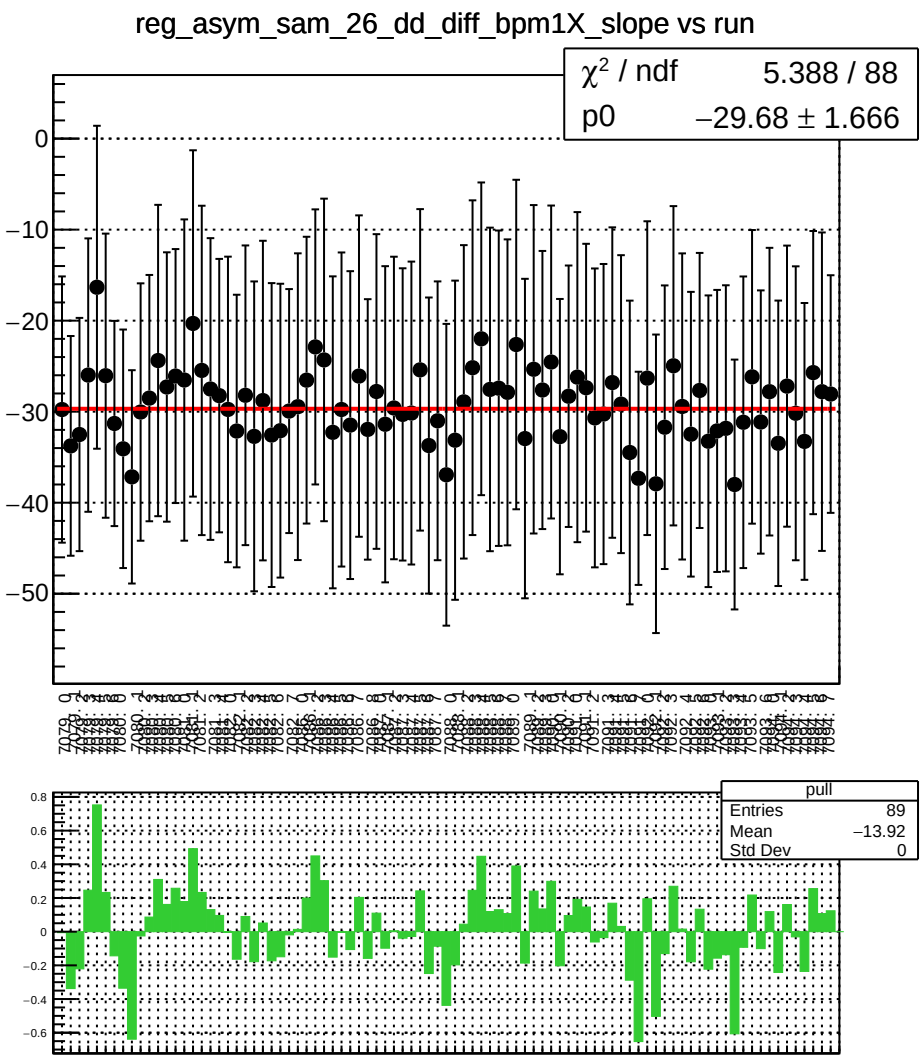

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.04 / 88
p0 −54.02 ± 0.6365
pull
Entries 89
Mean 51.26
Std Dev 0

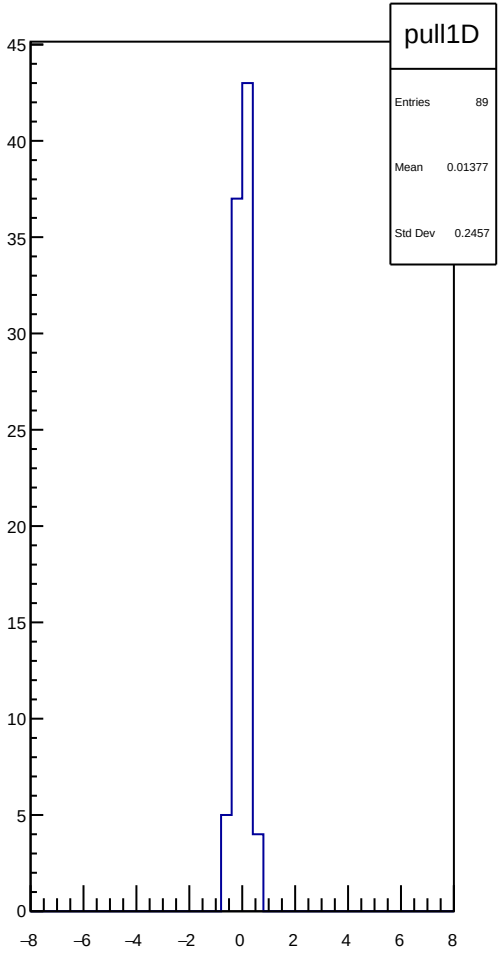

pull1D
Entries 89
Mean −0.05023
Std Dev 0.5788

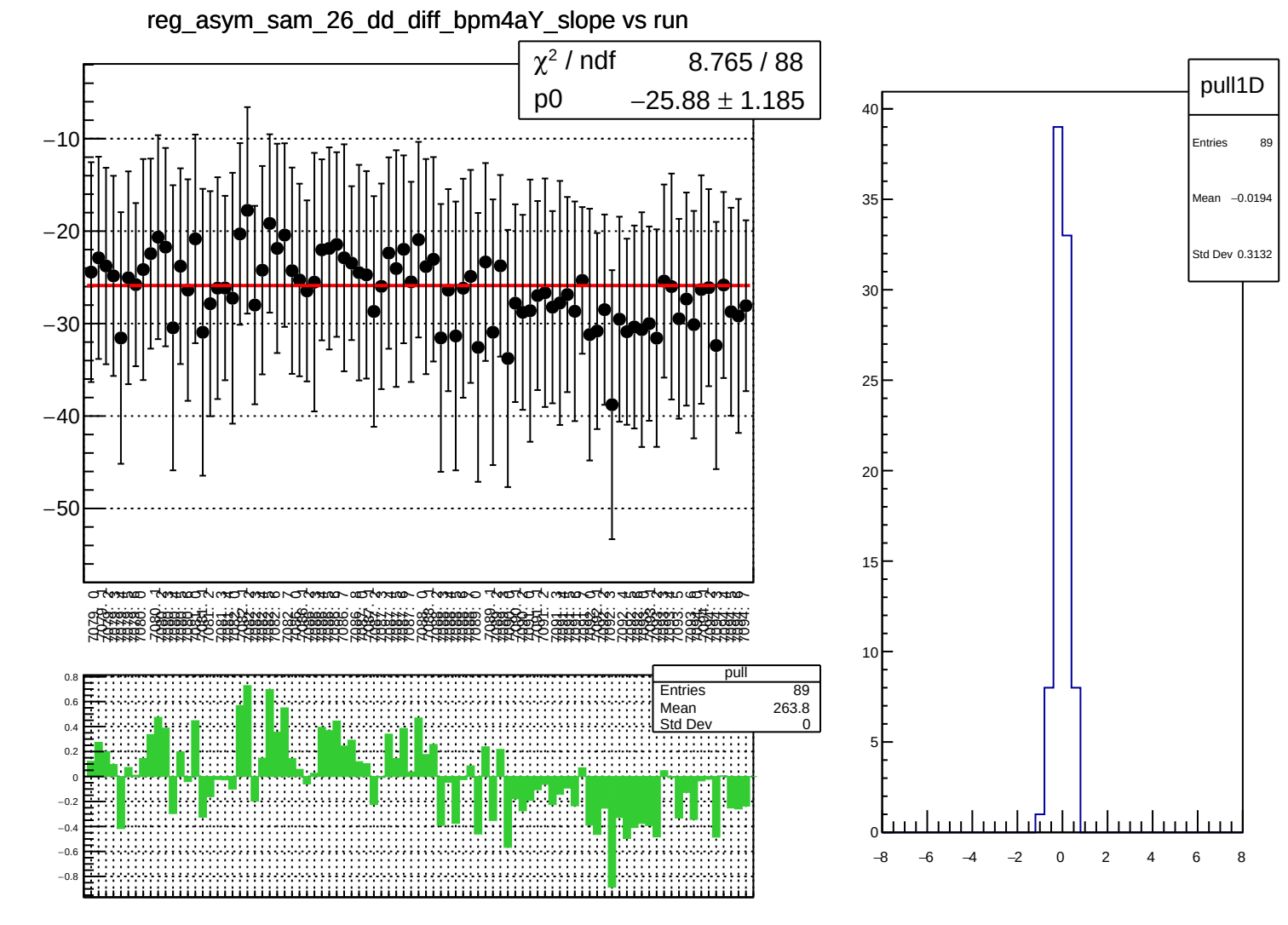

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.71 / 88
p0 −48.56 ± 0.493
pull
Entries 89
Mean 961.7
Std Dev 0

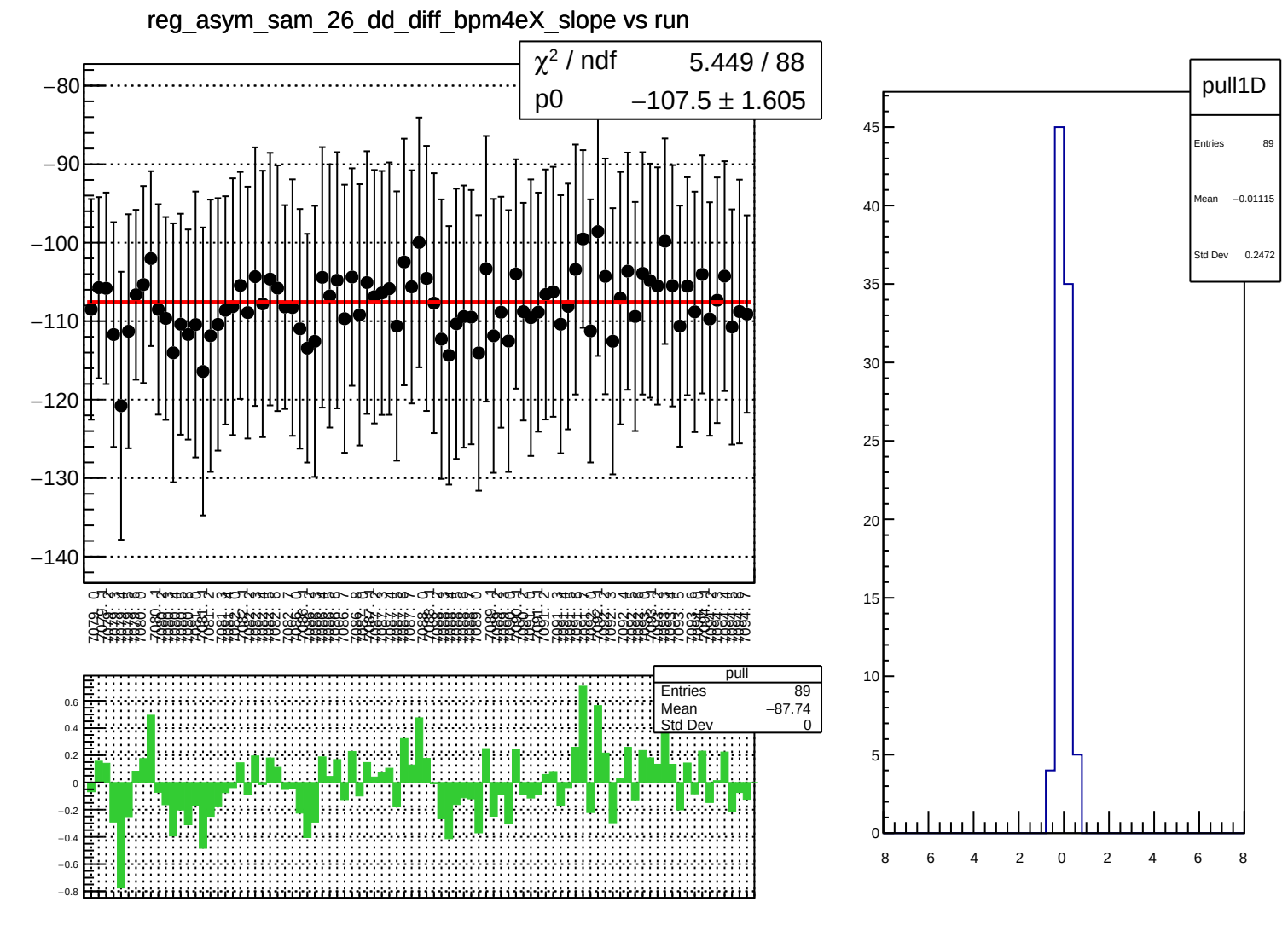

pull1D
Entries 89
Mean 0.01014
Std Dev 0.6153

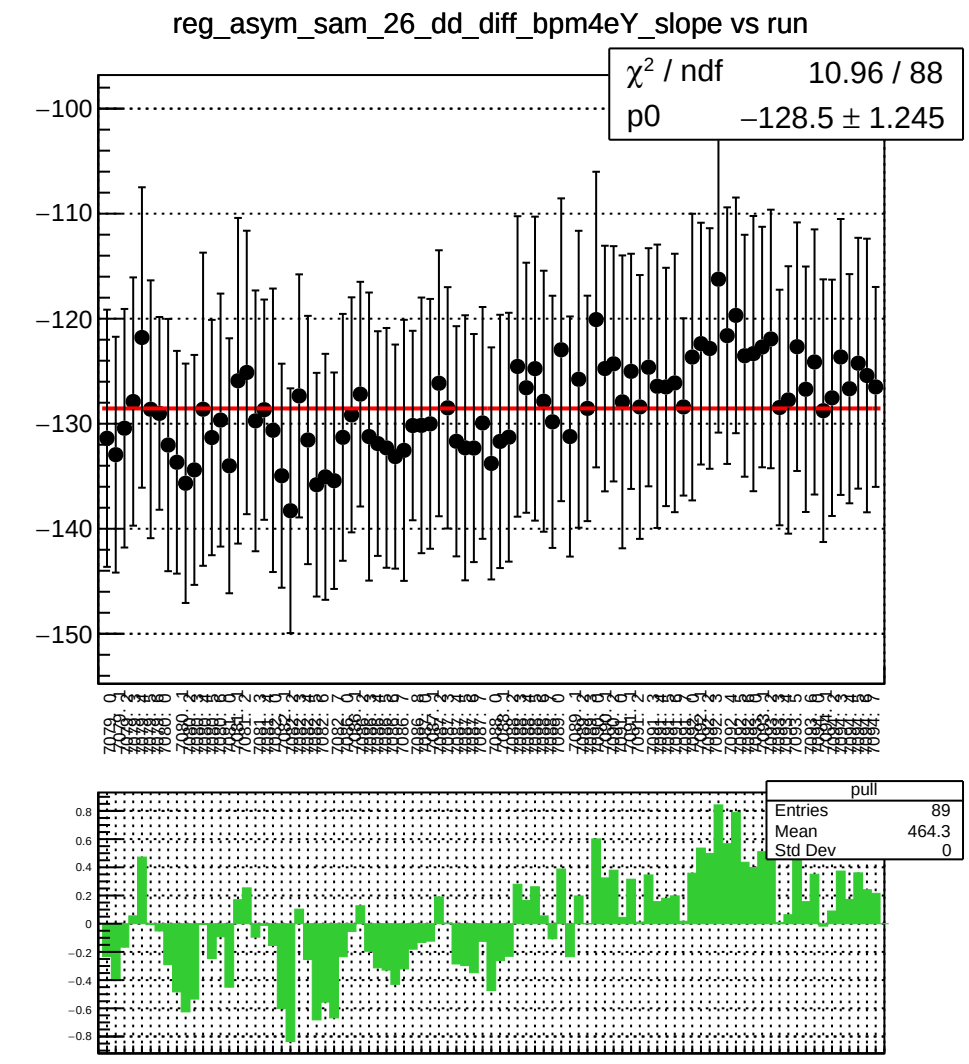

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 6.531 / 88
p0 0.7005 ± 0.02305
pull
Entries 89
Mean −742
Std Dev 0
pull1D
Entries 89
Mean −0.001472
Std Dev 0.2709

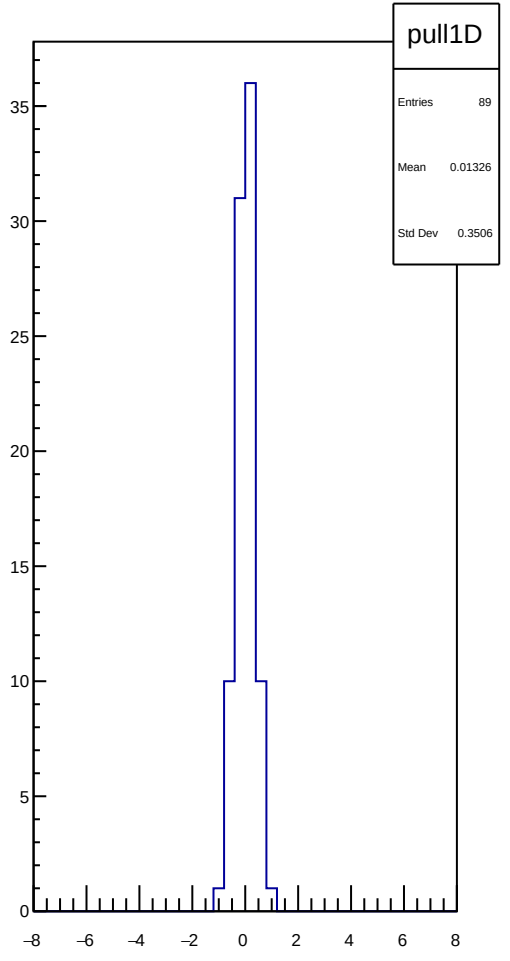

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 5.388 / 88
p0 −29.68 ± 1.666
pull
Entries 89
Mean −13.92
Std Dev 0

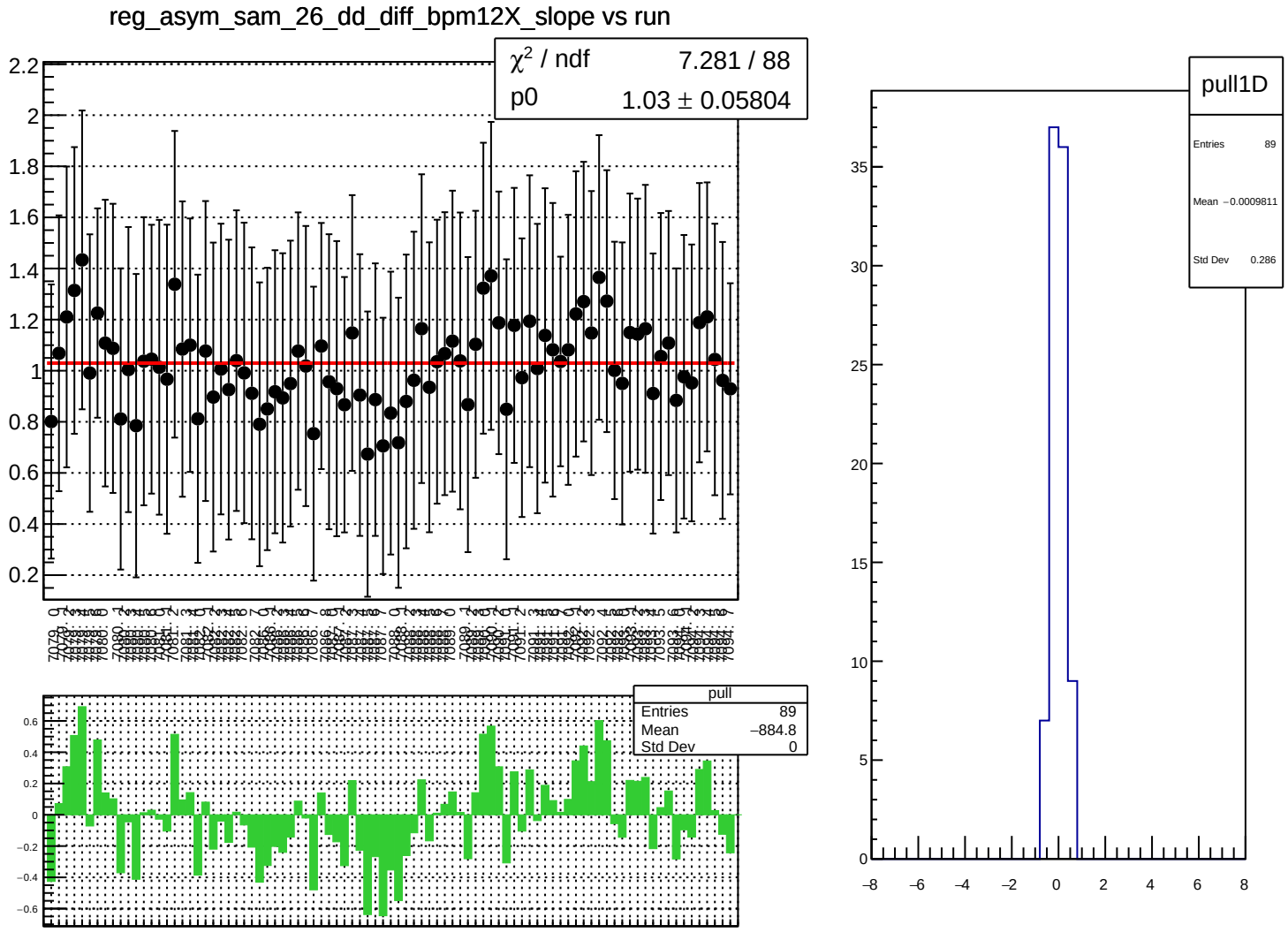

pull1D
Entries 89
Mean 0.01377
Std Dev 0.2457

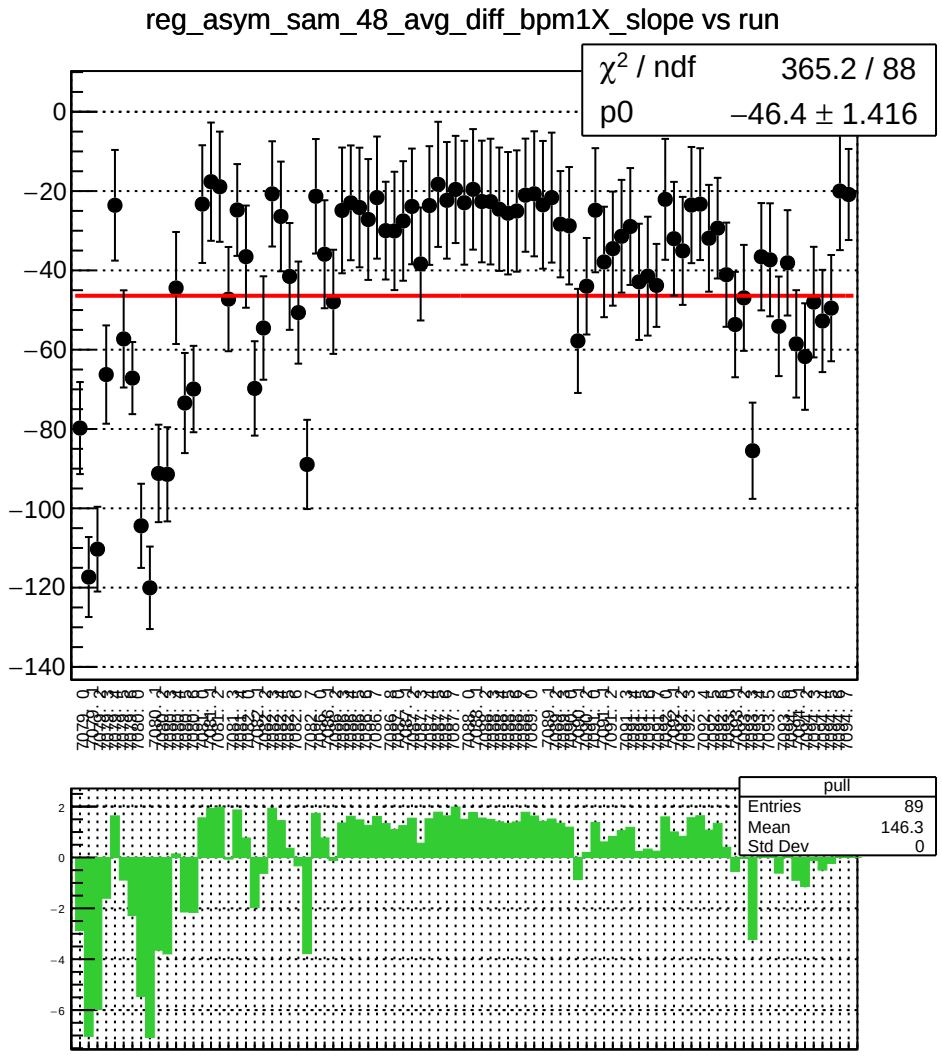

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.765 / 88
p0 −25.88 ± 1.185
pull
Entries 89
Mean 263.8
Std Dev 0
pull1D
Entries 89
Mean −0.0194
Std Dev 0.3132

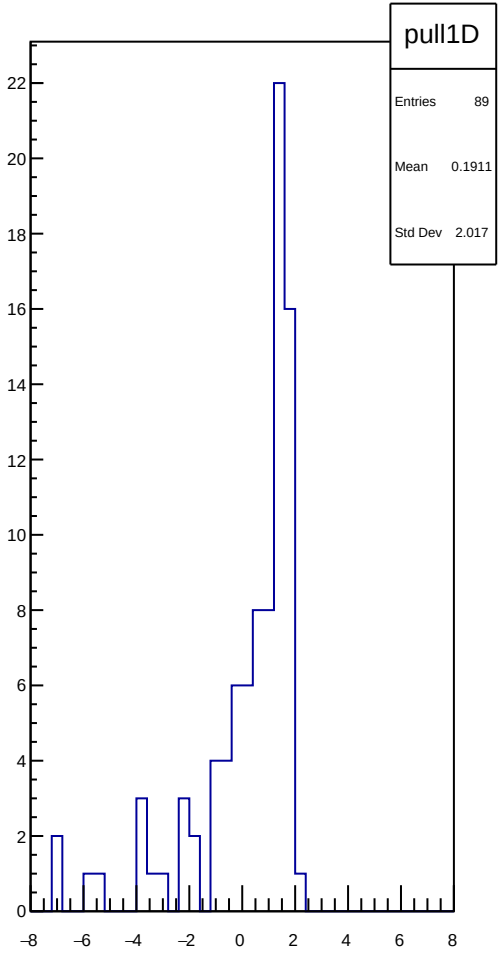

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.449 / 88
p0 −107.5 ± 1.605
pull
Entries 89
Mean −87.74
Std Dev 0
pull1D
Entries 89
Mean −0.01115
Std Dev 0.2472

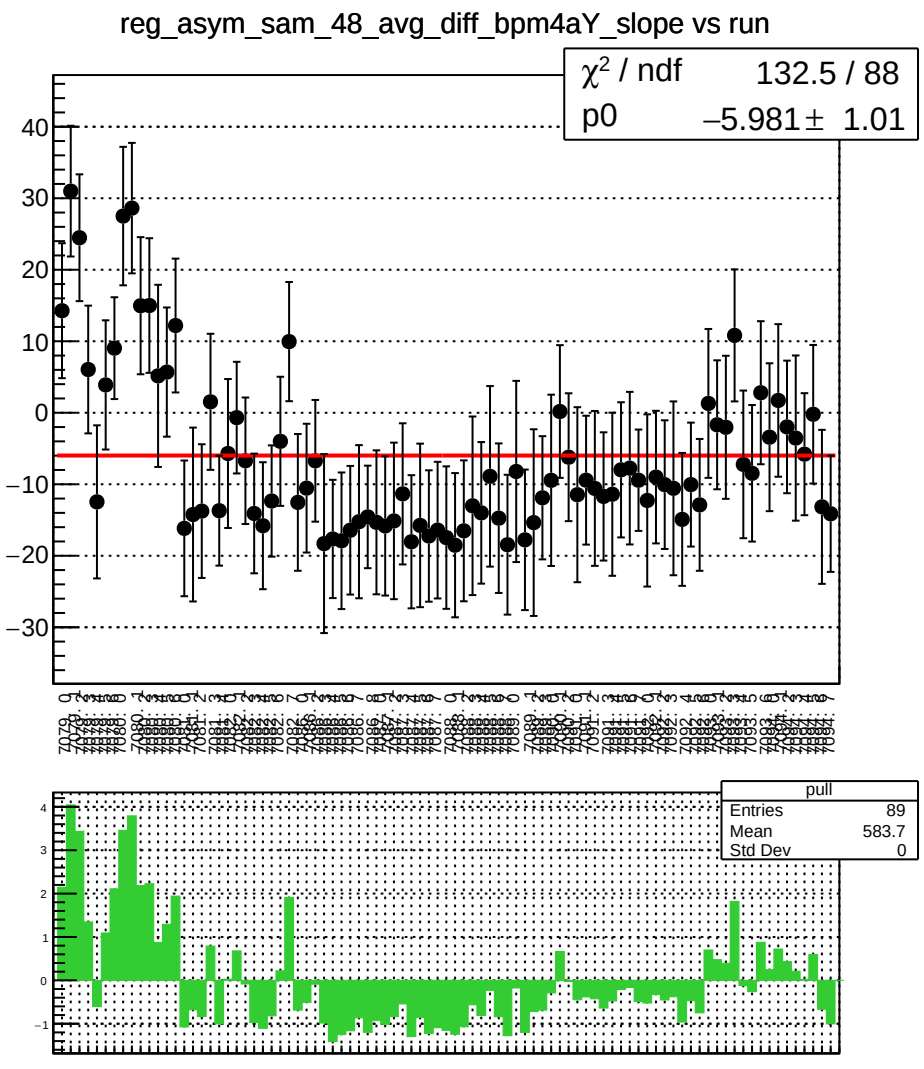

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.96 / 88
p0 −128.5 ± 1.245
−100
−110
−120
−130
−140
−150
pull
Entries 89
Mean 464.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

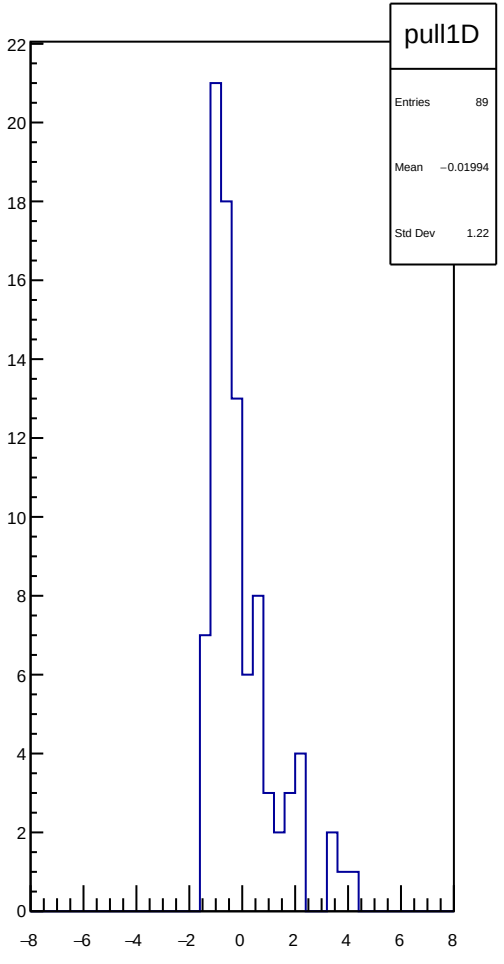

pull1D
Entries 89
Mean 0.01326
Std Dev 0.3506
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

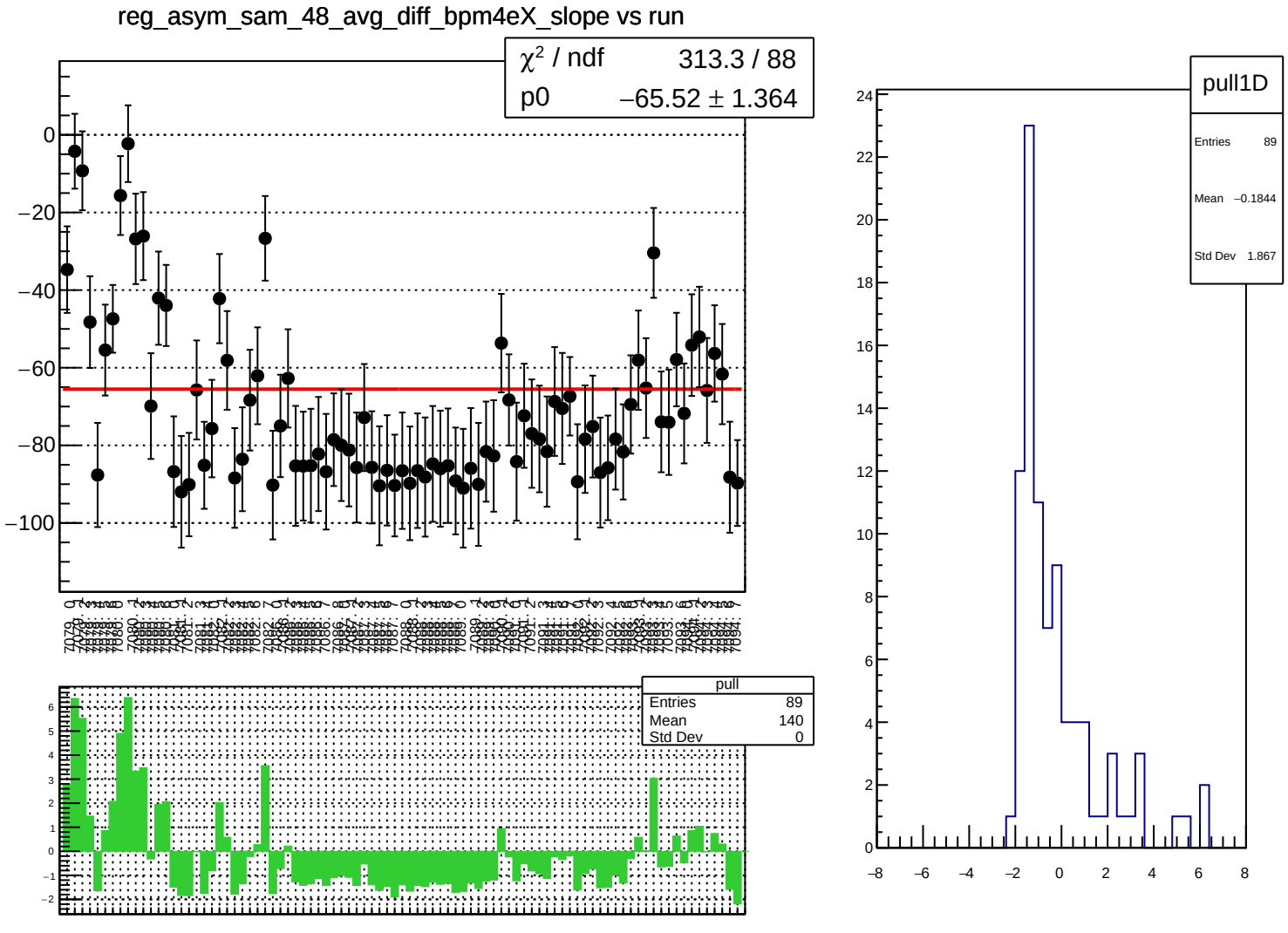

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.281 / 88
p0 1.03 ± 0.05804
pull
Entries 89
Mean −884.8
Std Dev 0
pull1D
Entries 89
Mean −0.0009811
Std Dev 0.286

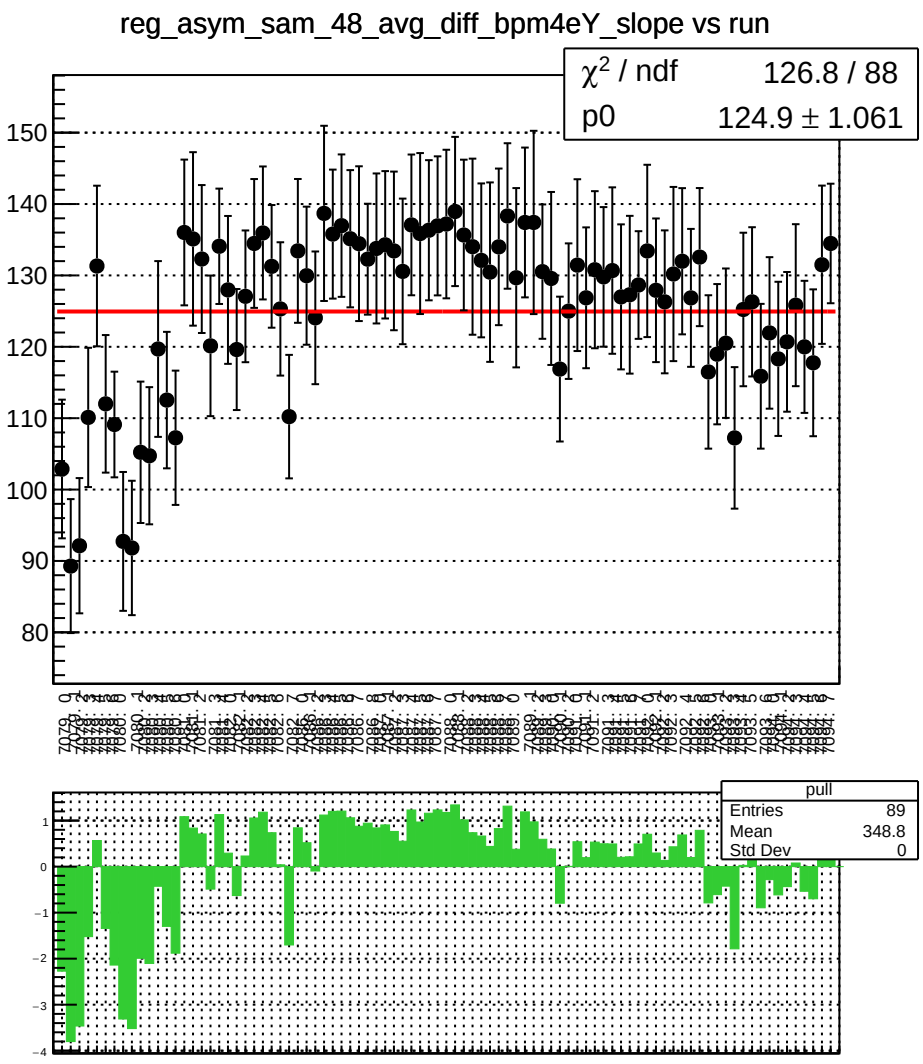

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 365.2 / 88
p0 −46.4 ± 1.416
pull
Entries 89
Mean 146.3
Std Dev 0

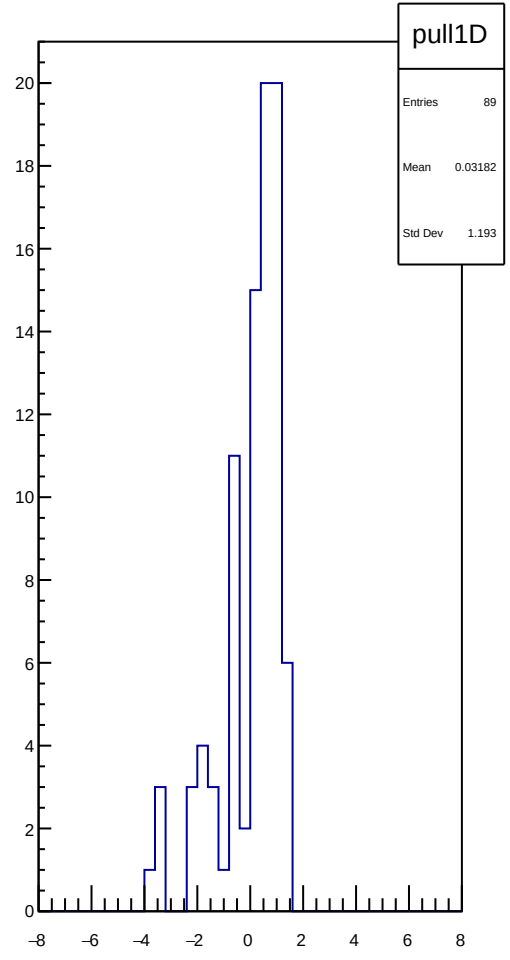

pull1D
Entries 89
Mean 0.1911
Std Dev 2.017

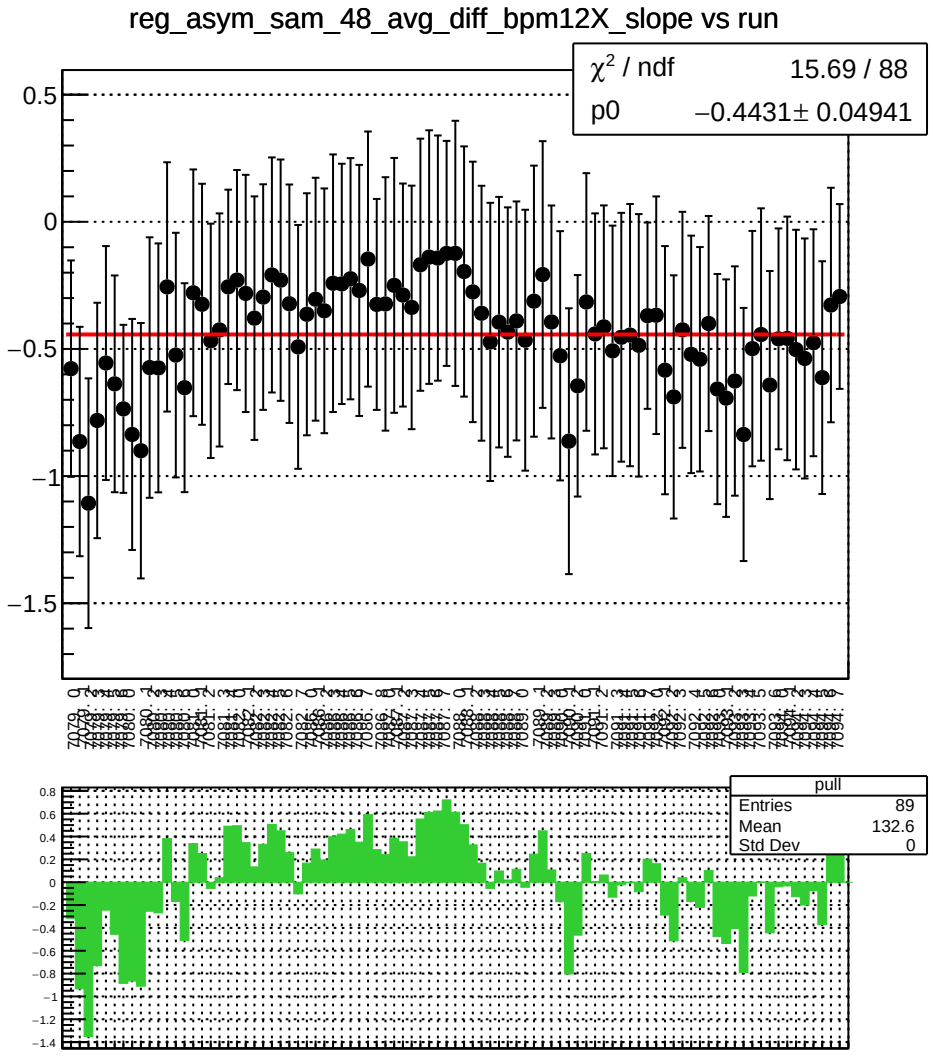

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 132.5 / 88
p0 −5.981 ± 1.01
pull
Entries 89
Mean 583.7
Std Dev 0

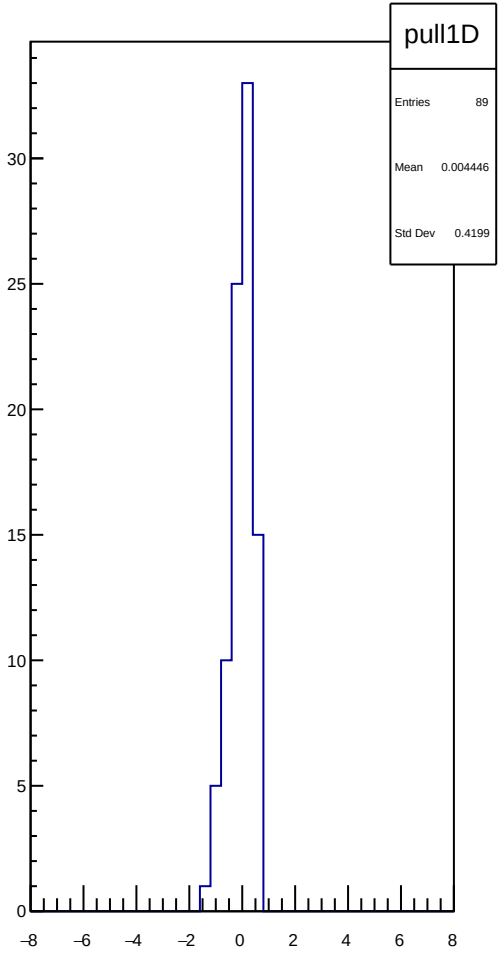

pull1D
Entries 89
Mean −0.01994
Std Dev 1.22

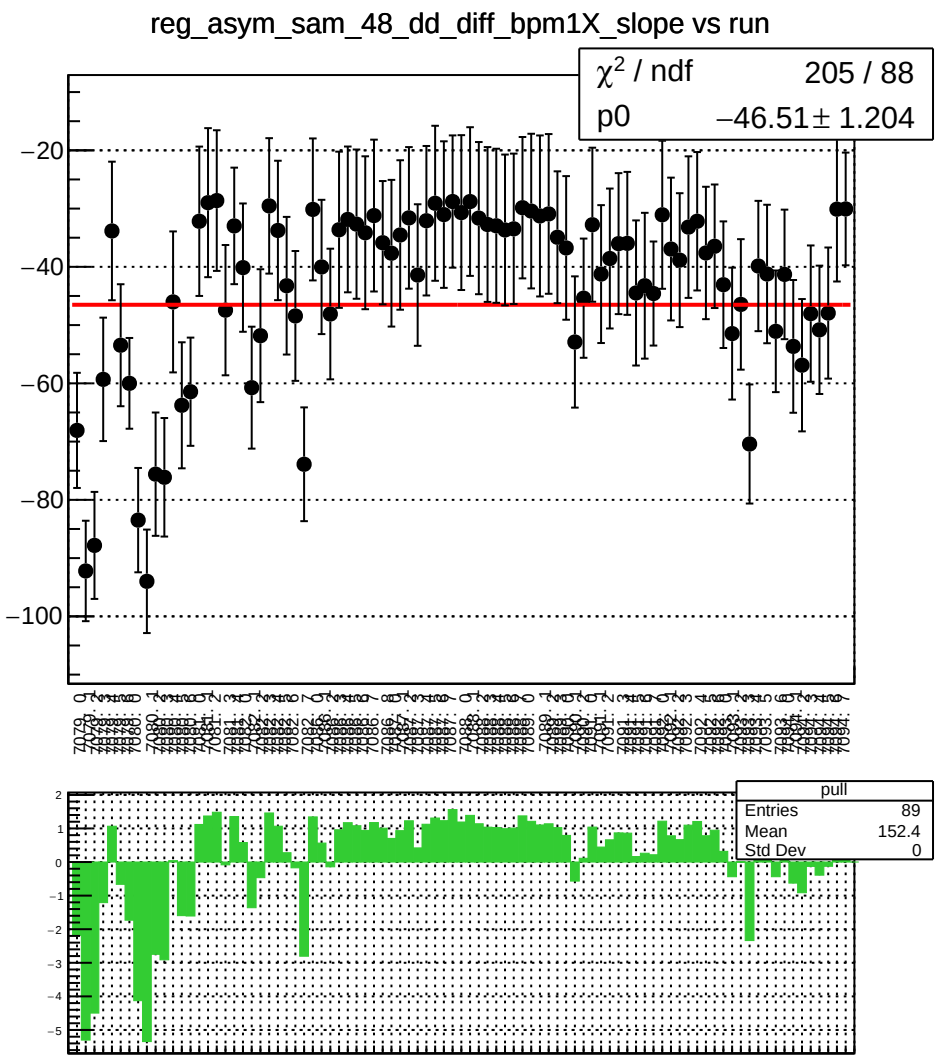

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 313.3 / 88
p0 −65.52 ± 1.364
pull
Entries 89
Mean 140
Std Dev 0
pull1D
Entries 89
Mean −0.1844
Std Dev 1.867

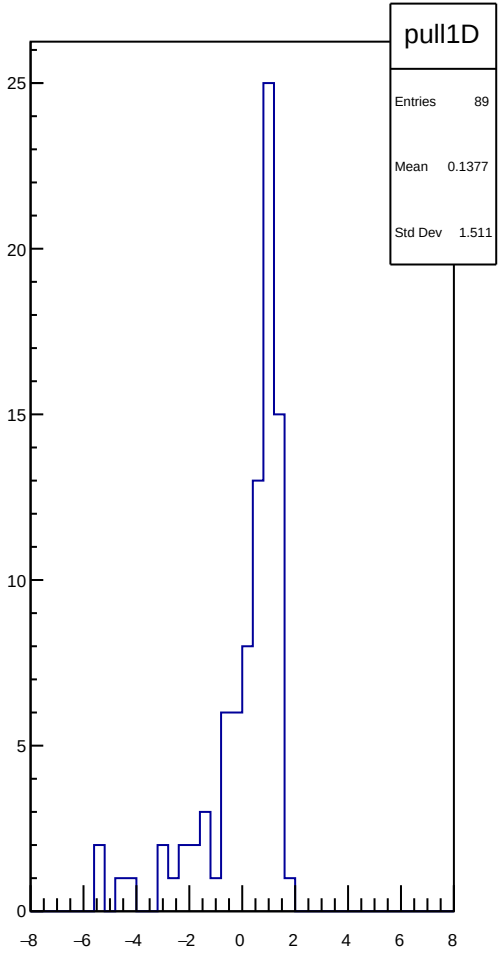

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 126.8 / 88
p0 124.9 ± 1.061
150
140
130
120
110
100
90
80
pull
Entries 89
Mean 348.8
Std Dev 0
1
0
−1
−2
−3
−4

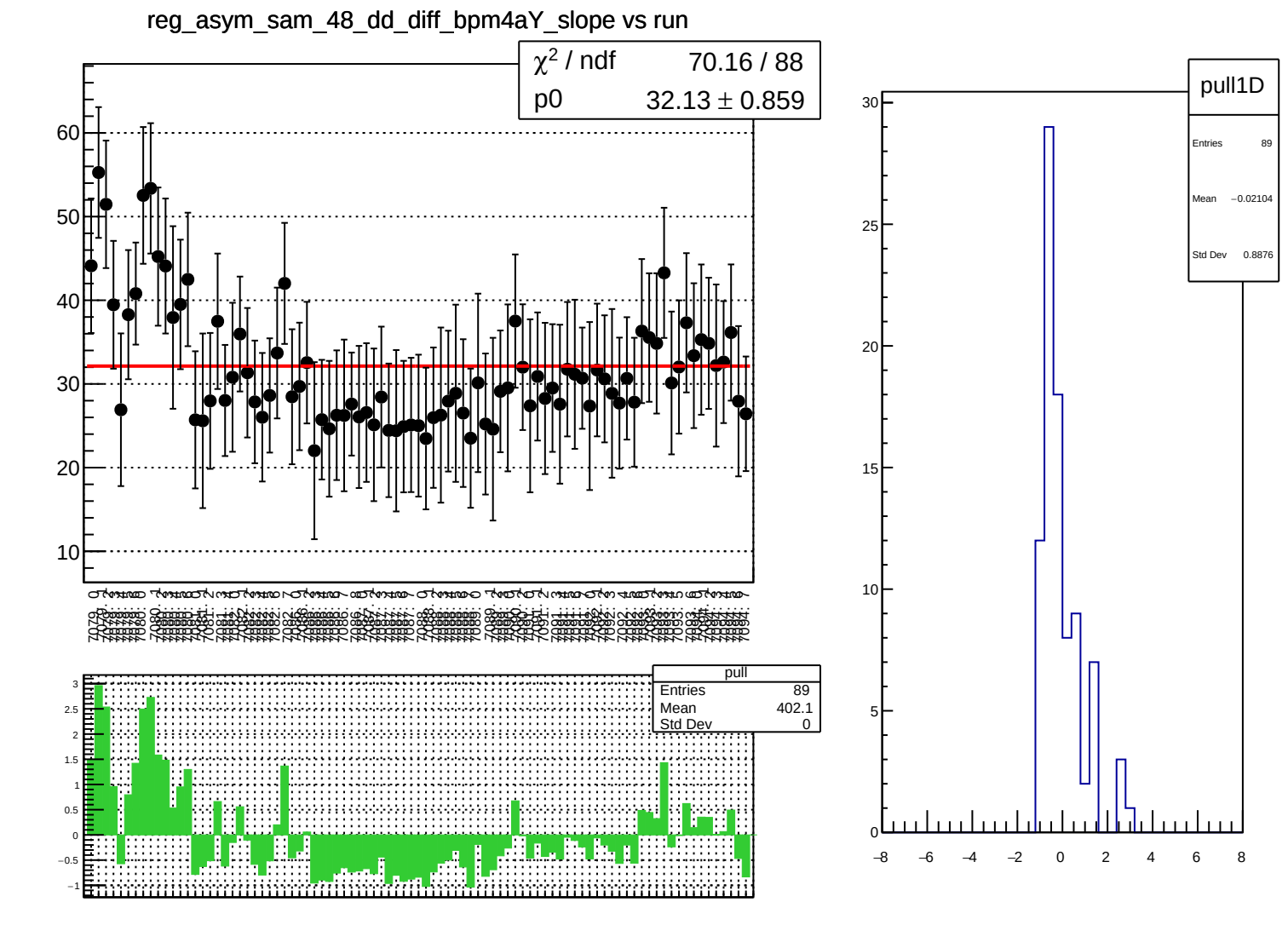

pull1D
Entries 89
Mean 0.03182
Std Dev 1.193
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

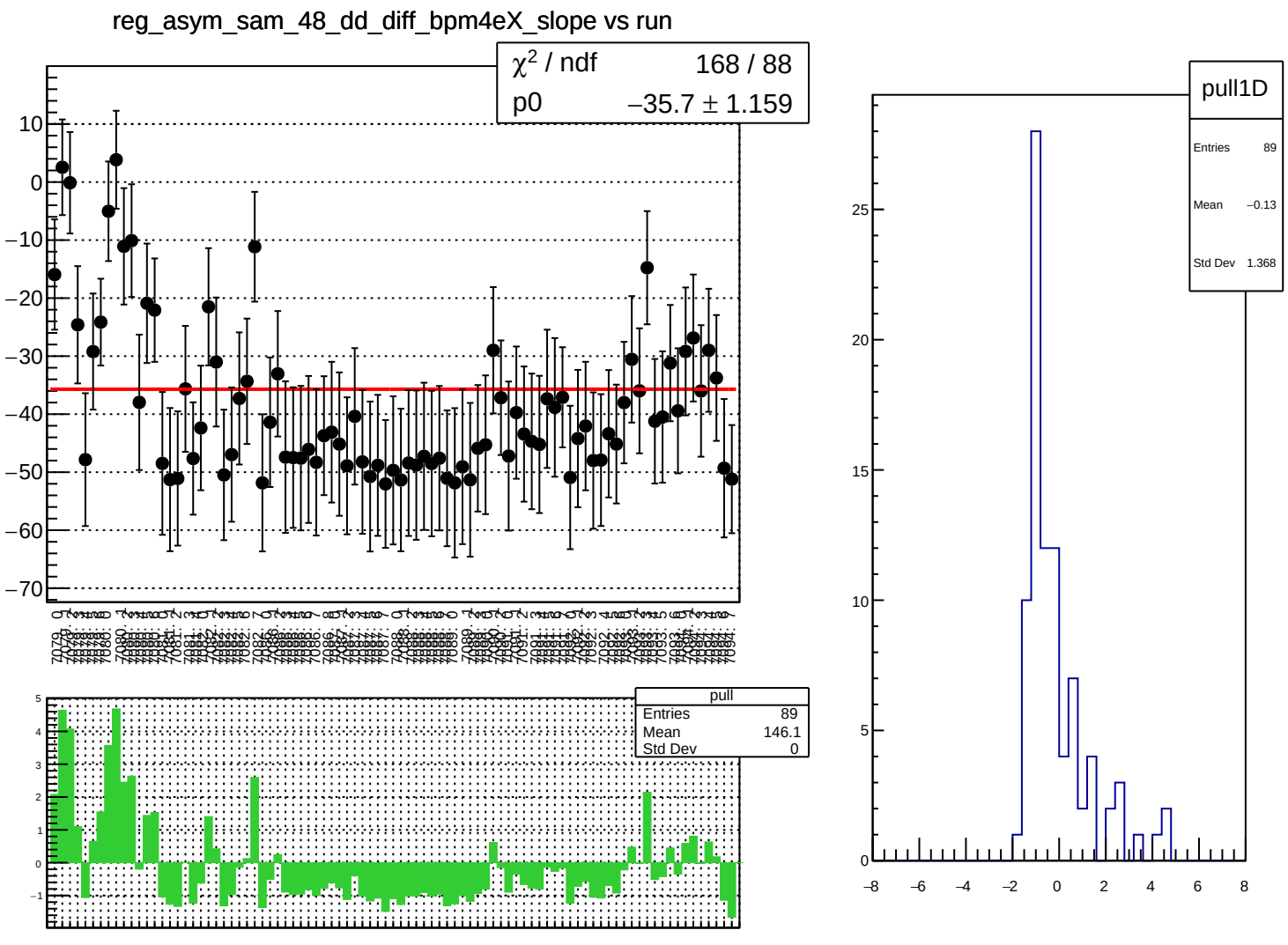

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 15.69 / 88
p0 −0.4431± 0.04941
pull
Entries 89
Mean 132.6
Std Dev 0

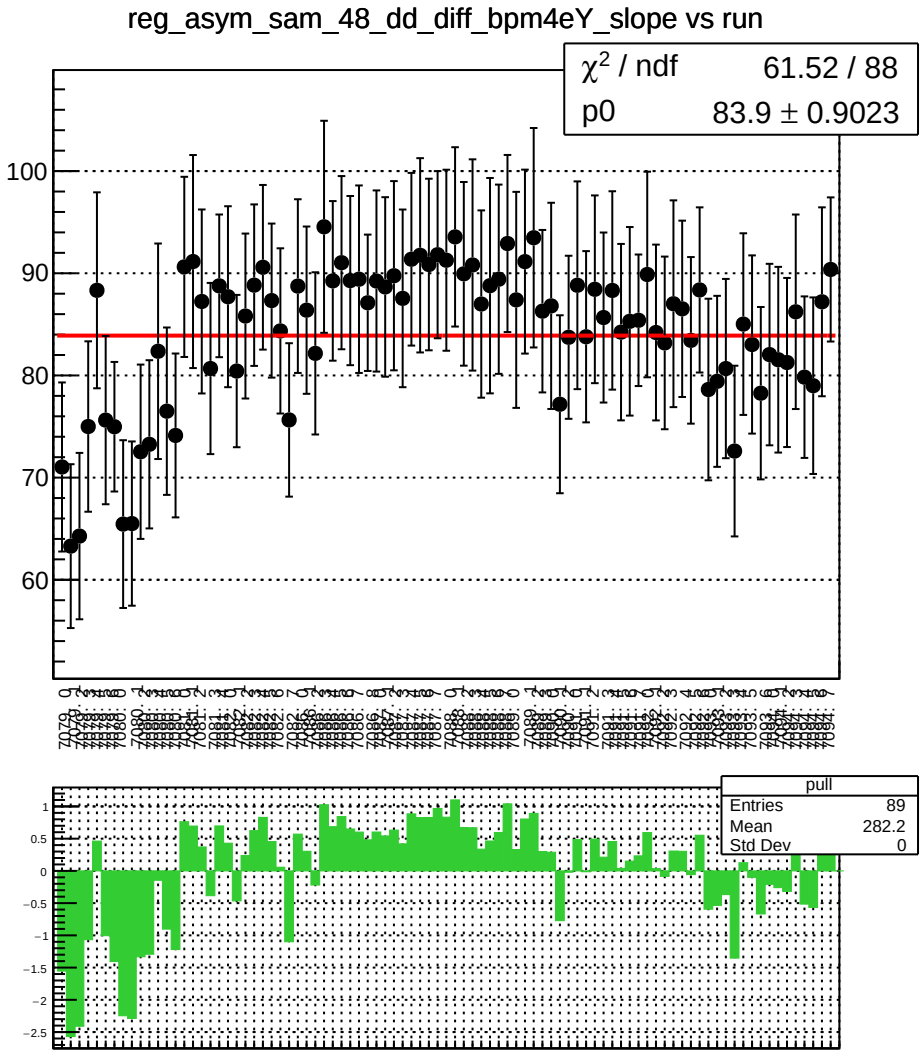

pull1D
Entries 89
Mean 0.004446
Std Dev 0.4199

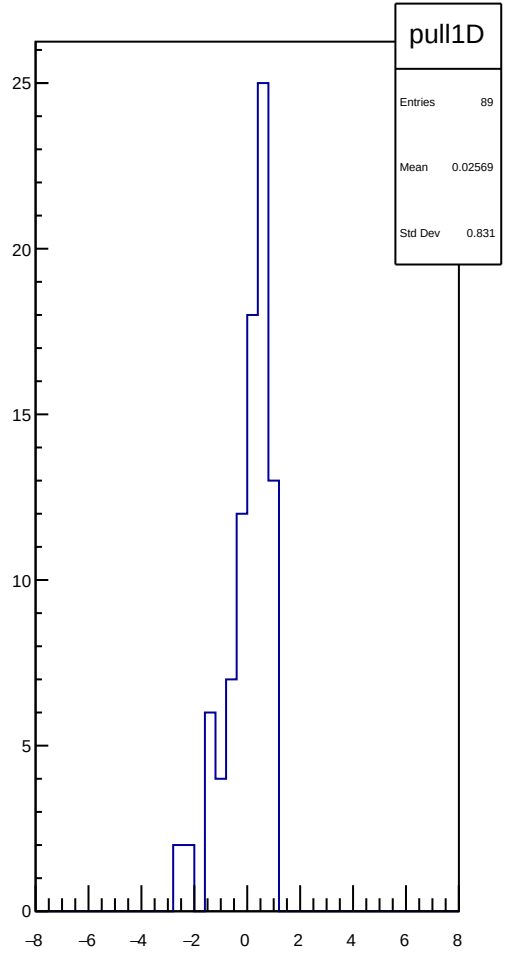

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 205 / 88
p0 −46.51 ± 1.204
−20
−40
−60
−80
−100
pull
Entries 89
Mean 152.4
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

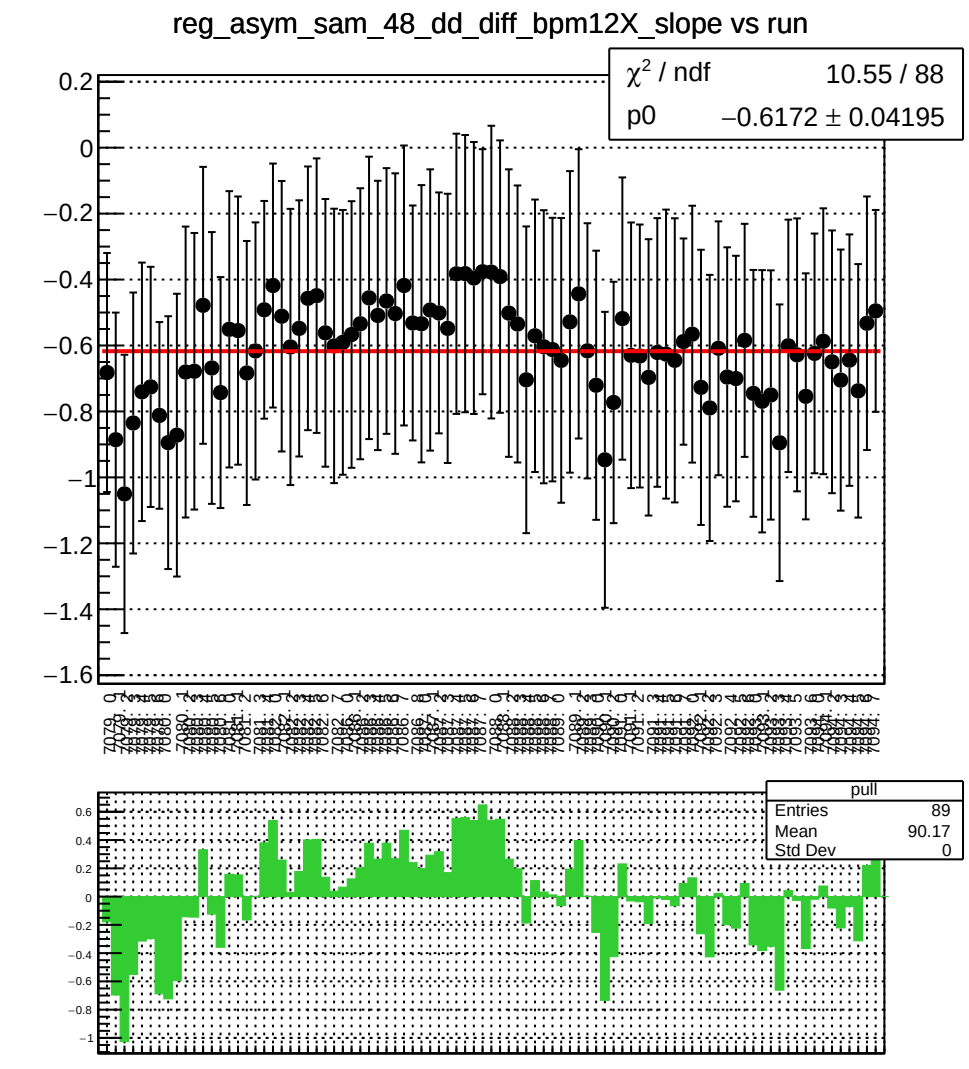

pull1D
Entries 89
Mean 0.1377
Std Dev 1.511
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

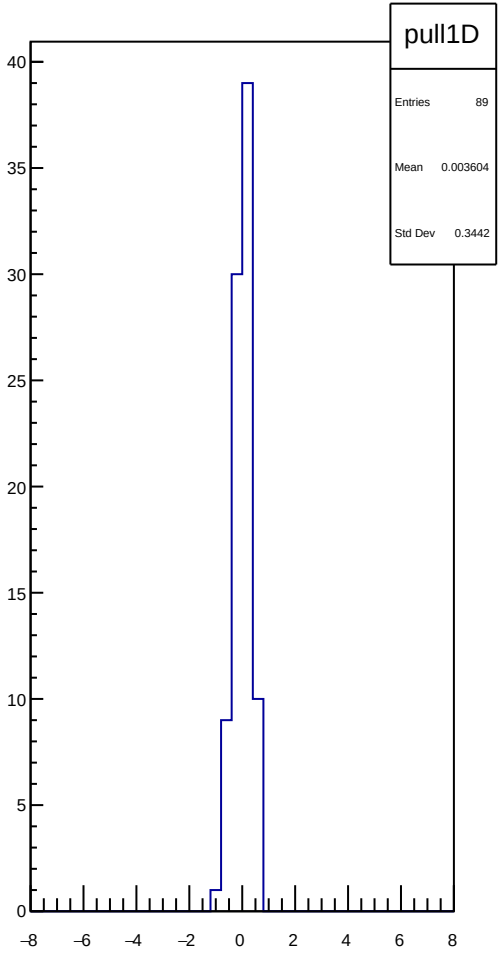

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.16 / 88
p0 32.13 ± 0.859
pull
Entries 89
Mean 402.1
Std Dev 0
pull1D
Entries 89
Mean −0.02104
Std Dev 0.8876

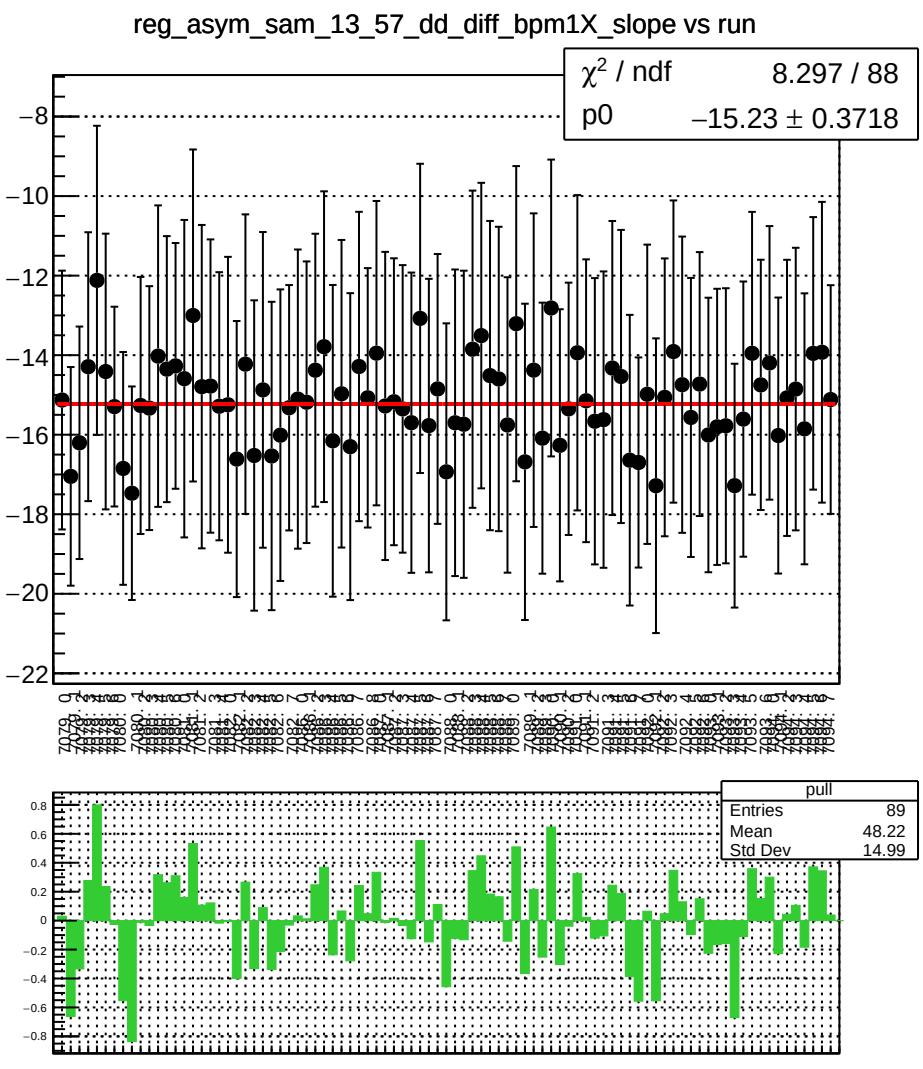

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 168 / 88
p0 −35.7 ± 1.159
pull
Entries 89
Mean 146.1
Std Dev 0
pull1D
Entries 89
Mean −0.13
Std Dev 1.368

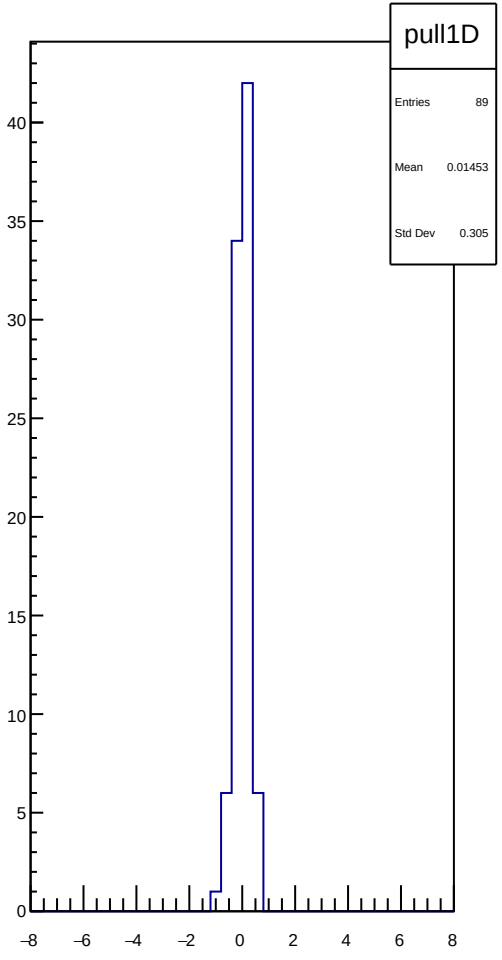

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.52 / 88
p0 83.9 ± 0.9023
100
90
80
70
60
pull
Entries 89
Mean 282.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

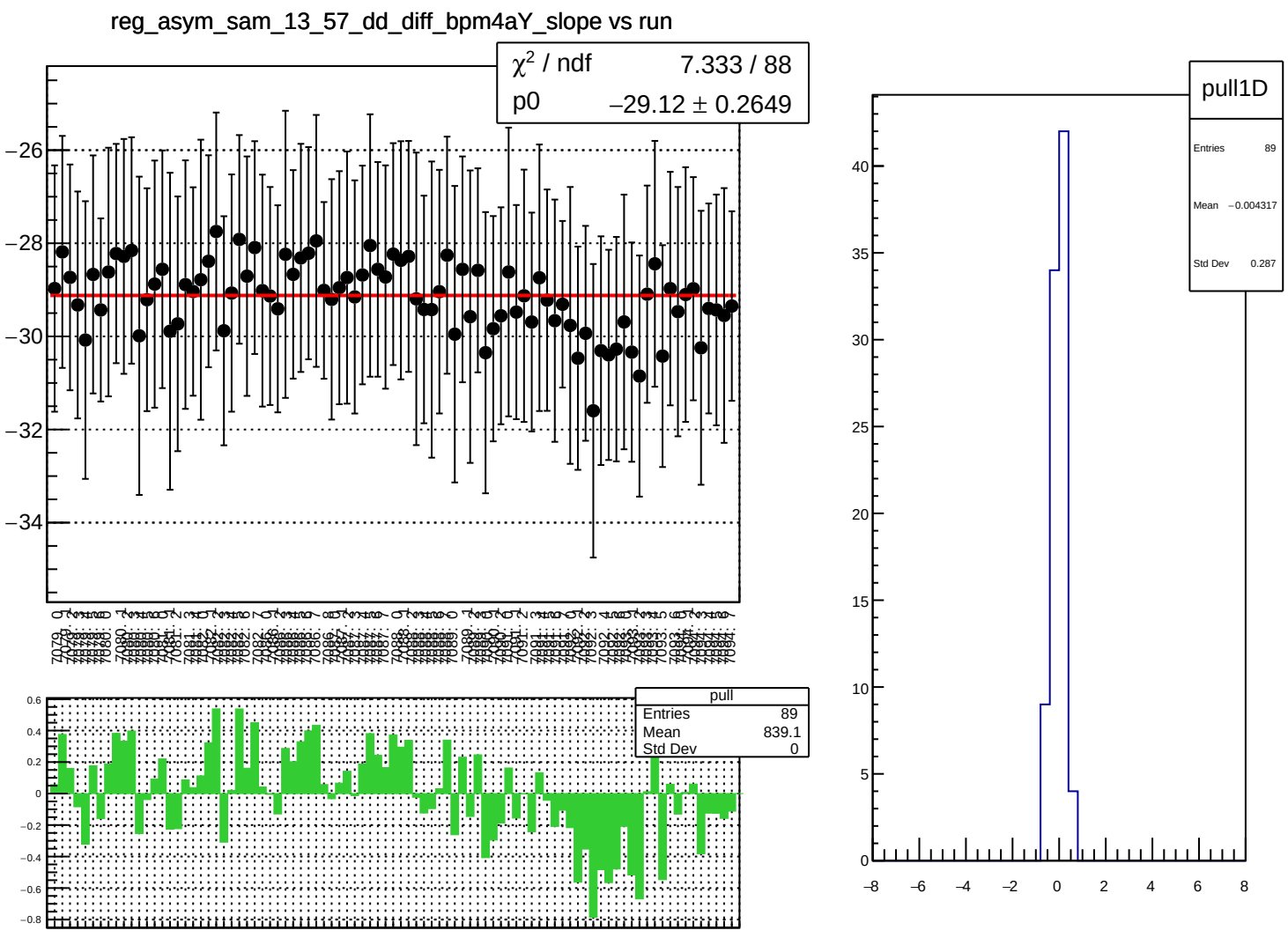

pull1D
Entries 89
Mean 0.02569
Std Dev 0.831
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

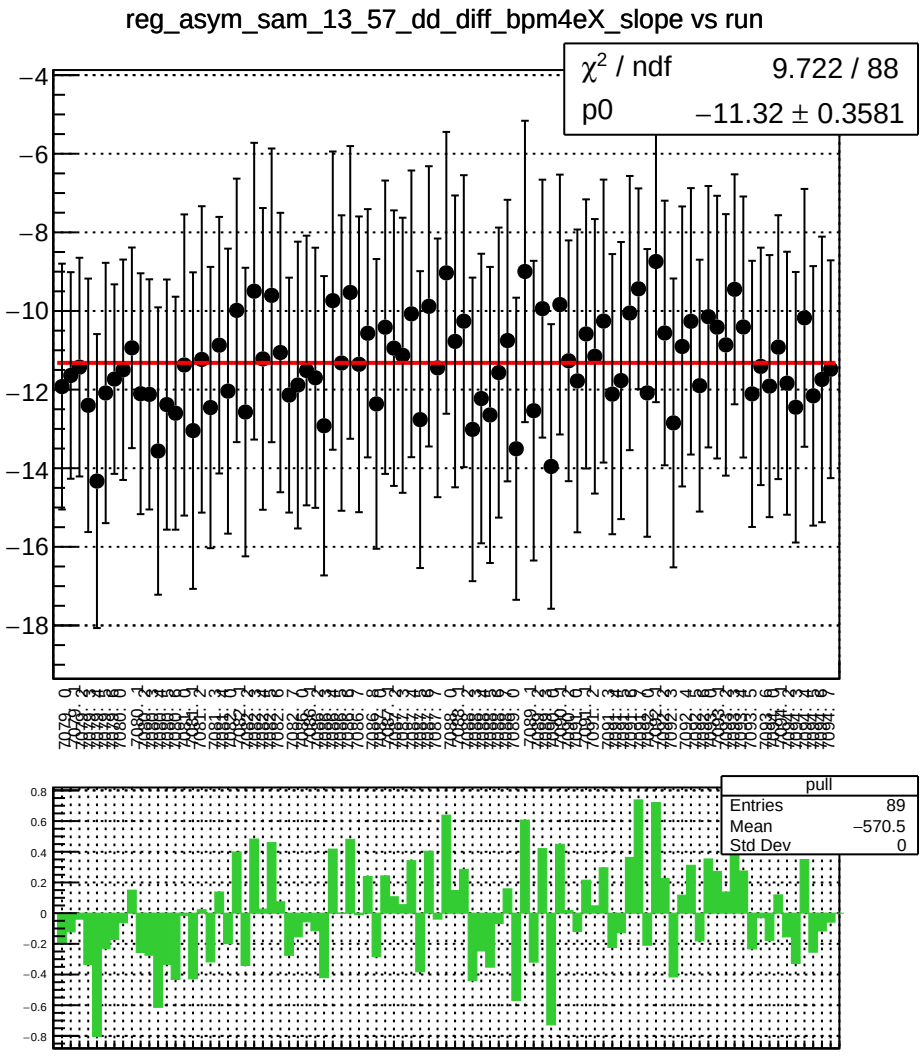

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.55 / 88
p0 −0.6172 ± 0.04195
pull
Entries 89
Mean 90.17
Std Dev 0

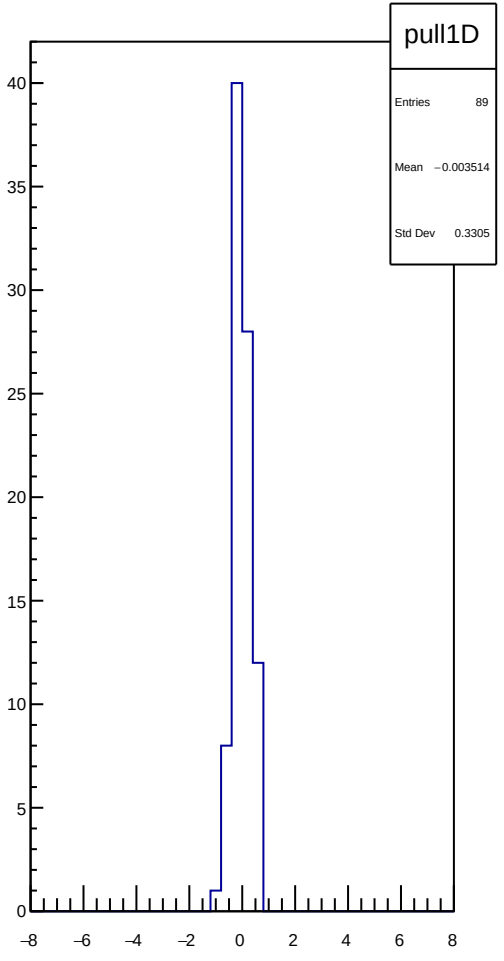

pull1D
Entries 89
Mean 0.003604
Std Dev 0.3442

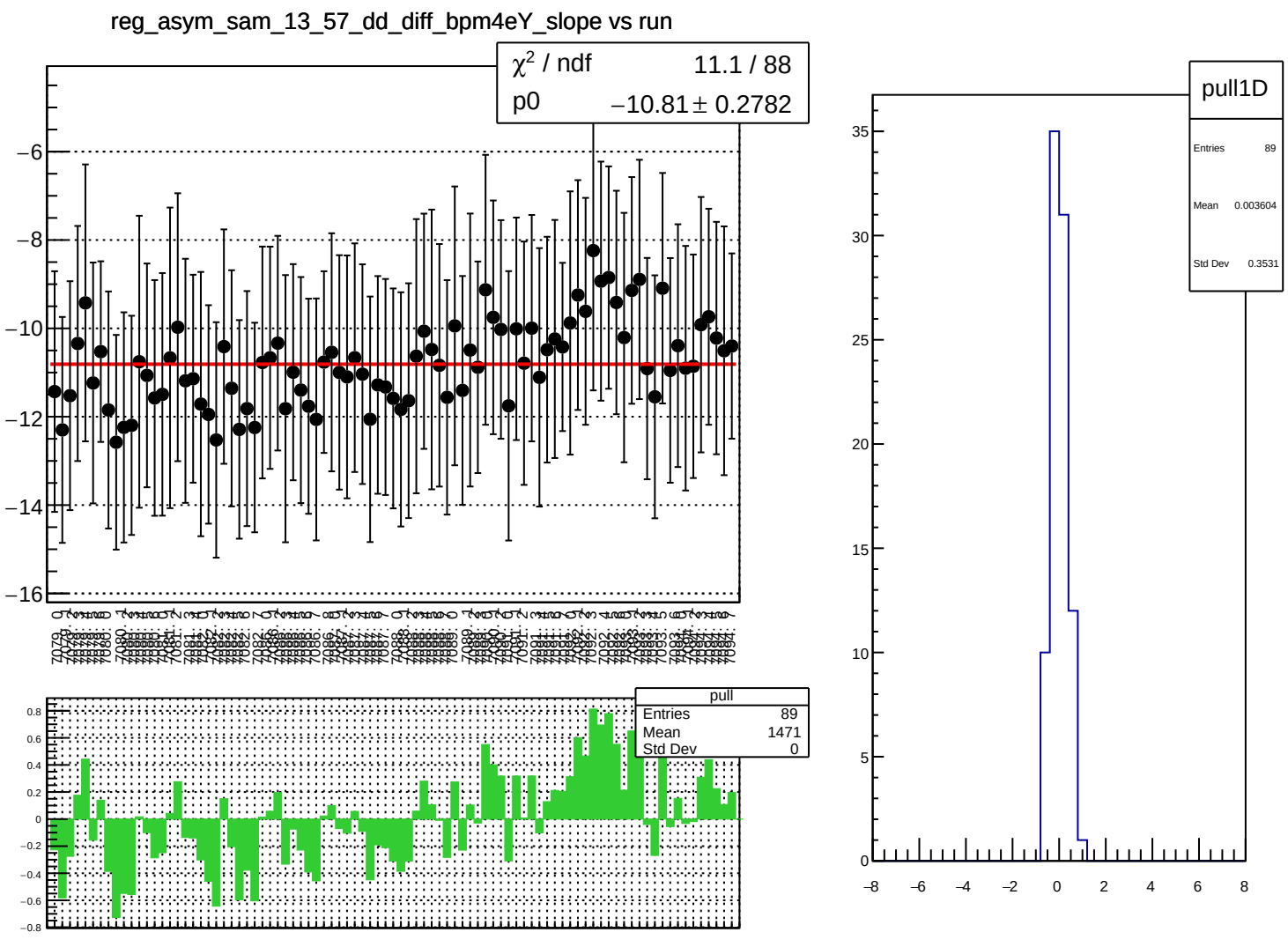

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 8.297 / 88
p0 −15.23 ± 0.3718
pull
Entries 89
Mean 48.22
Std Dev 14.99

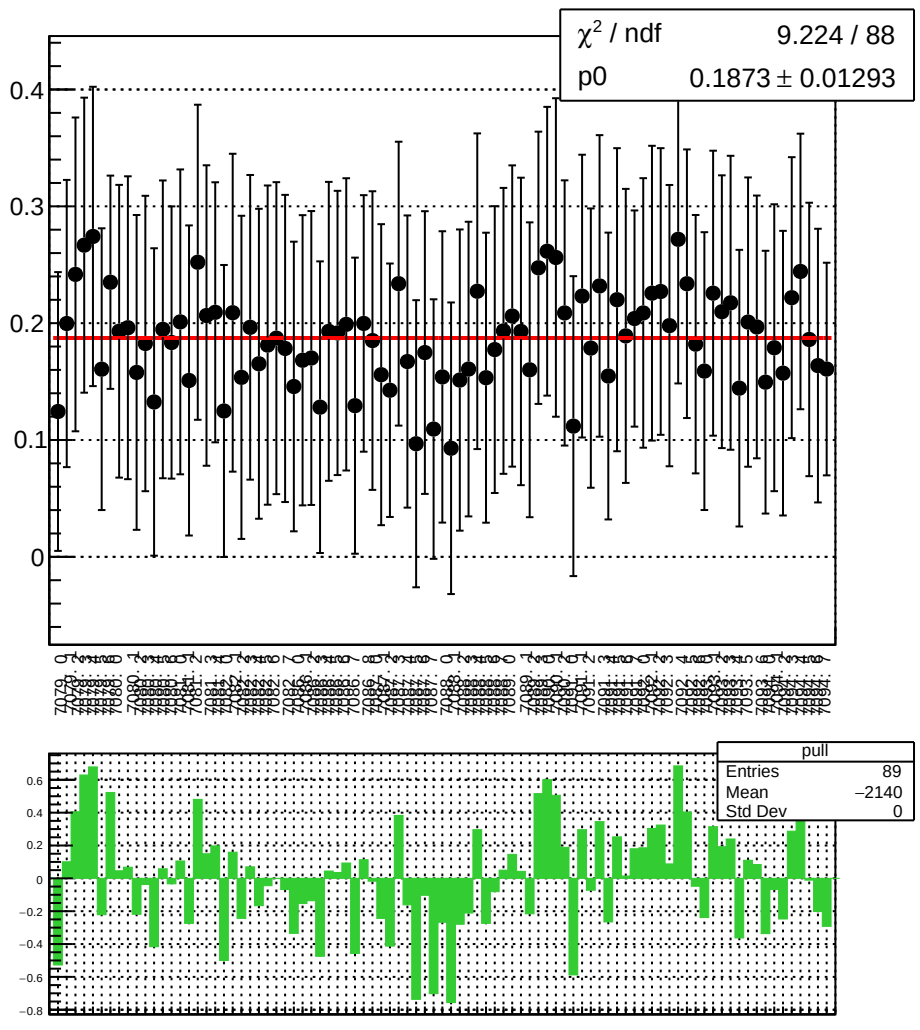

pull1D
Entries 89
Mean 0.01453
Std Dev 0.305

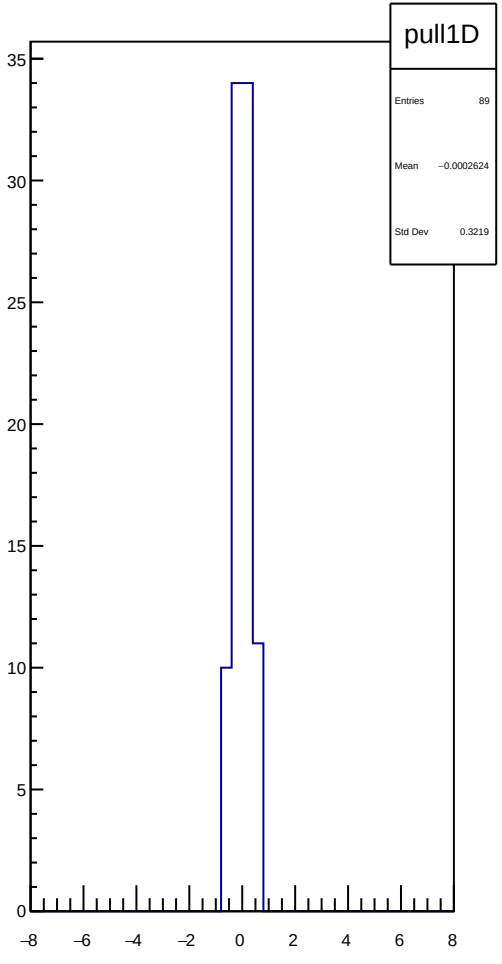

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.333 / 88
p0 −29.12 ± 0.2649
−26
−28
−30
−32
−34
pull
Entries 89
Mean 839.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean −0.004317
Std Dev 0.287
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

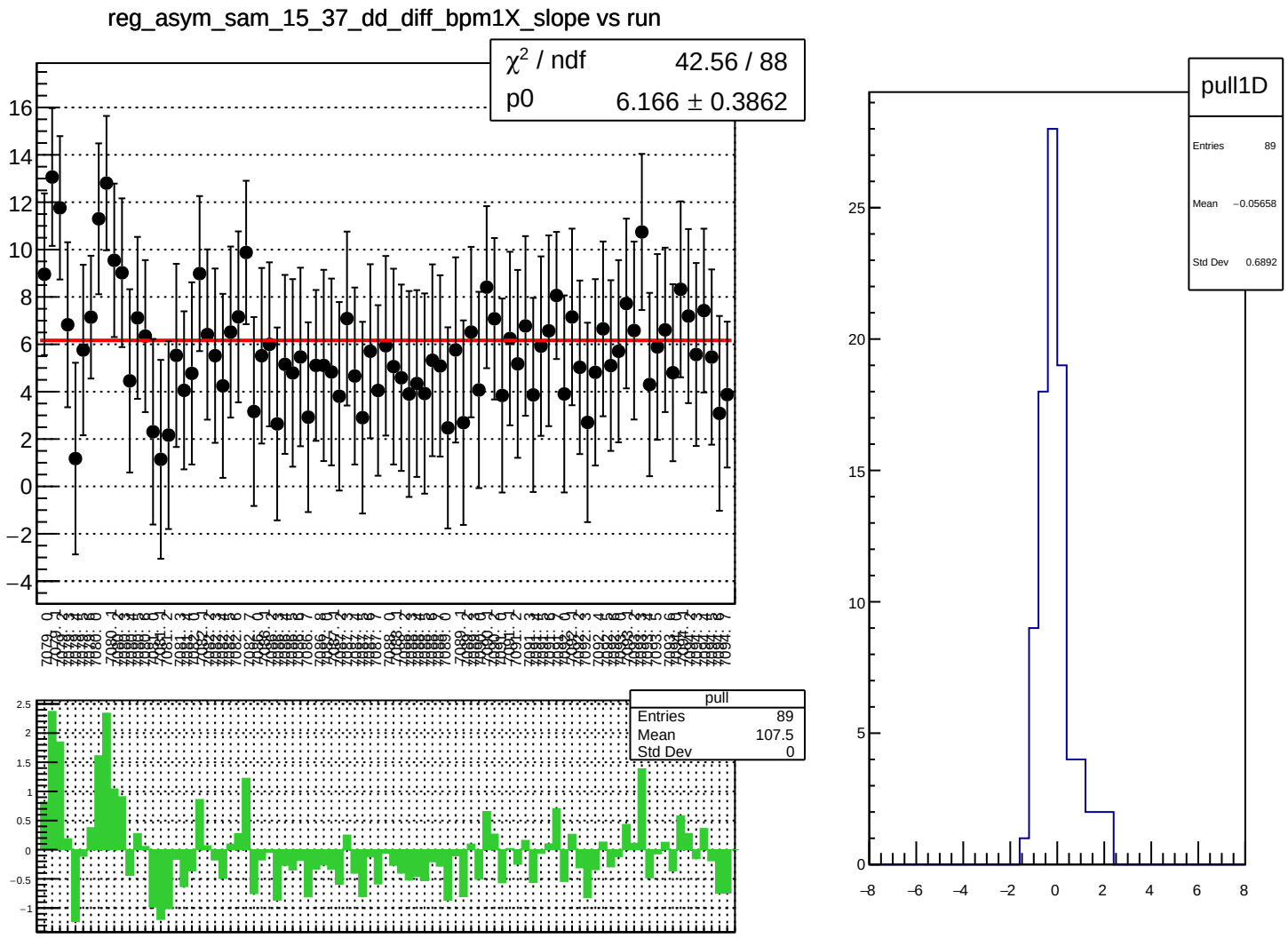

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.722 / 88
p0 −11.32 ± 0.3581
pull
Entries 89
Mean −570.5
Std Dev 0

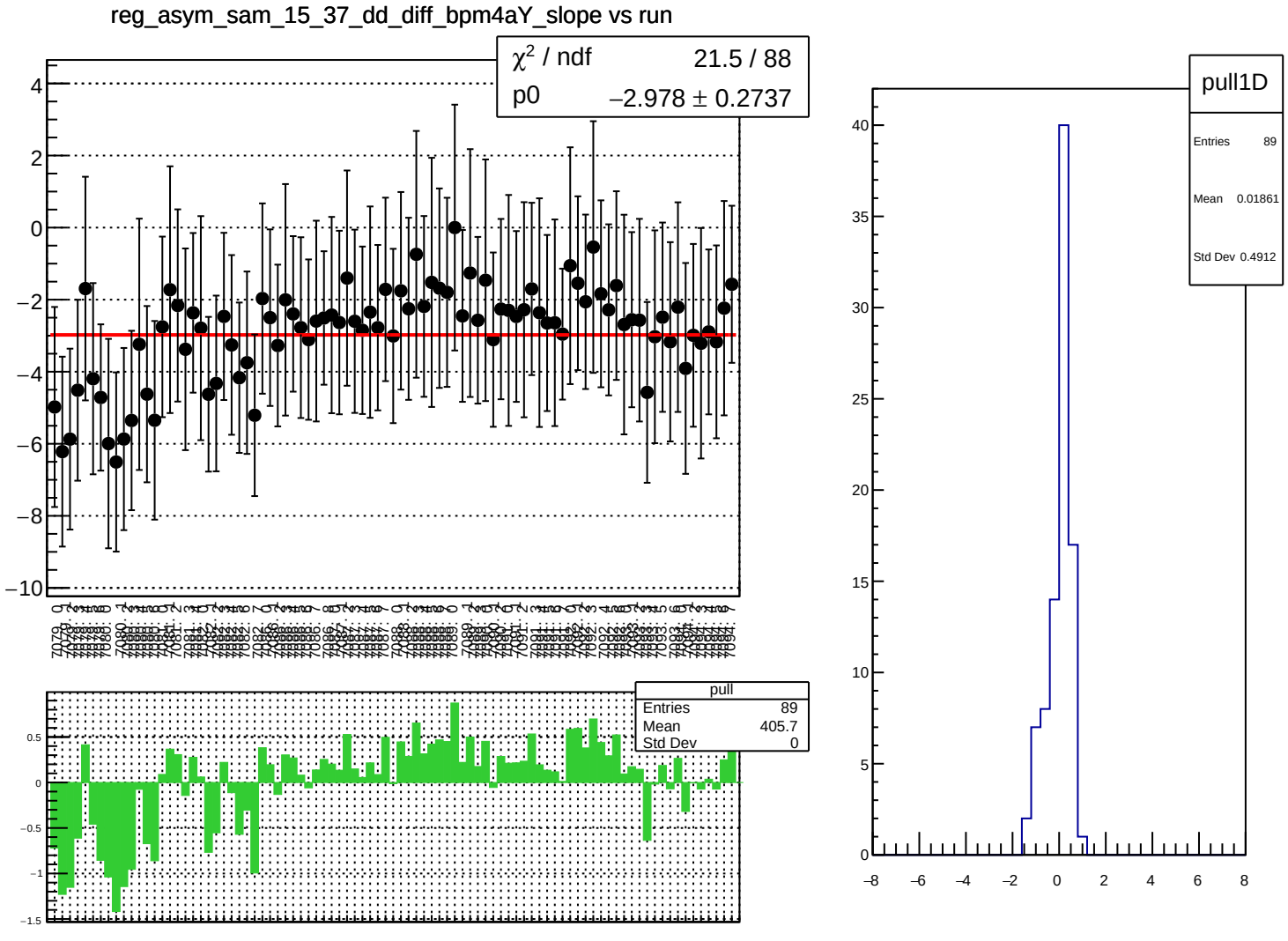

pull1D
Entries 89
Mean −0.003514
Std Dev 0.3305

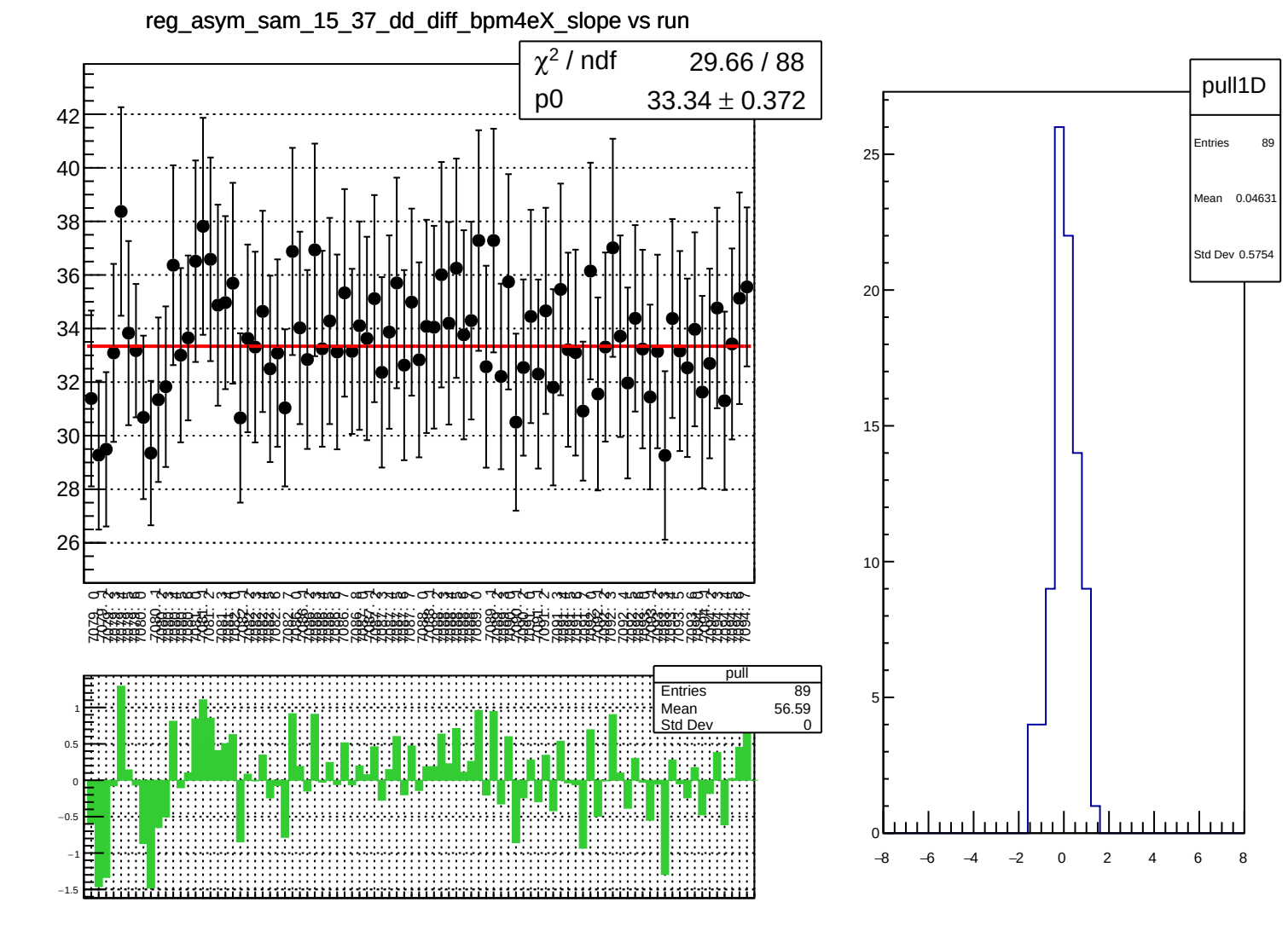

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.1 / 88
p0 −10.81 ± 0.2782
pull
Entries 89
Mean 1471
Std Dev 0
pull1D
Entries 89
Mean 0.003604
Std Dev 0.3531

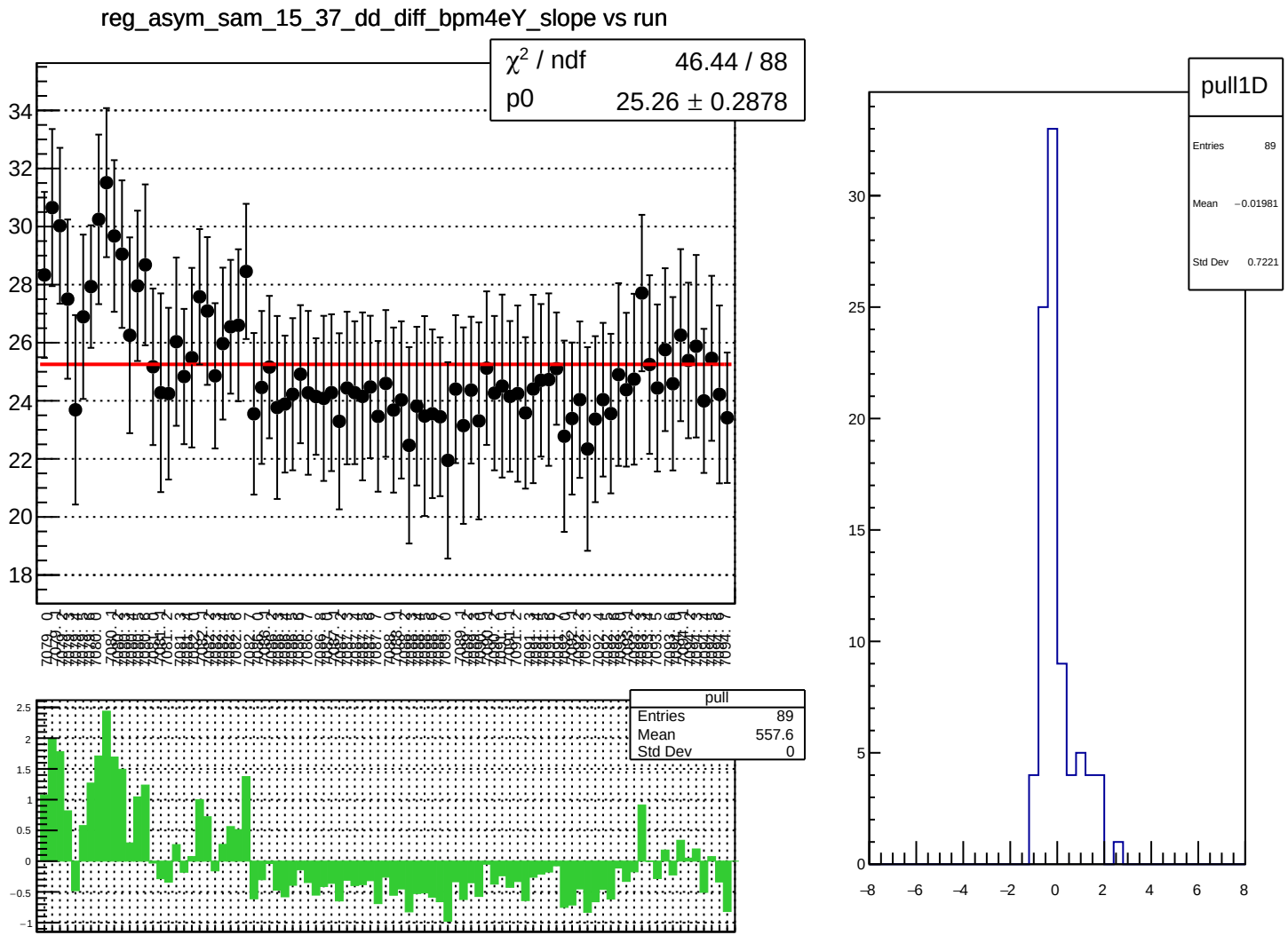

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 9.224 / 88
p0 0.1873 ± 0.01293
pull
Entries 89
Mean −2140
Std Dev 0

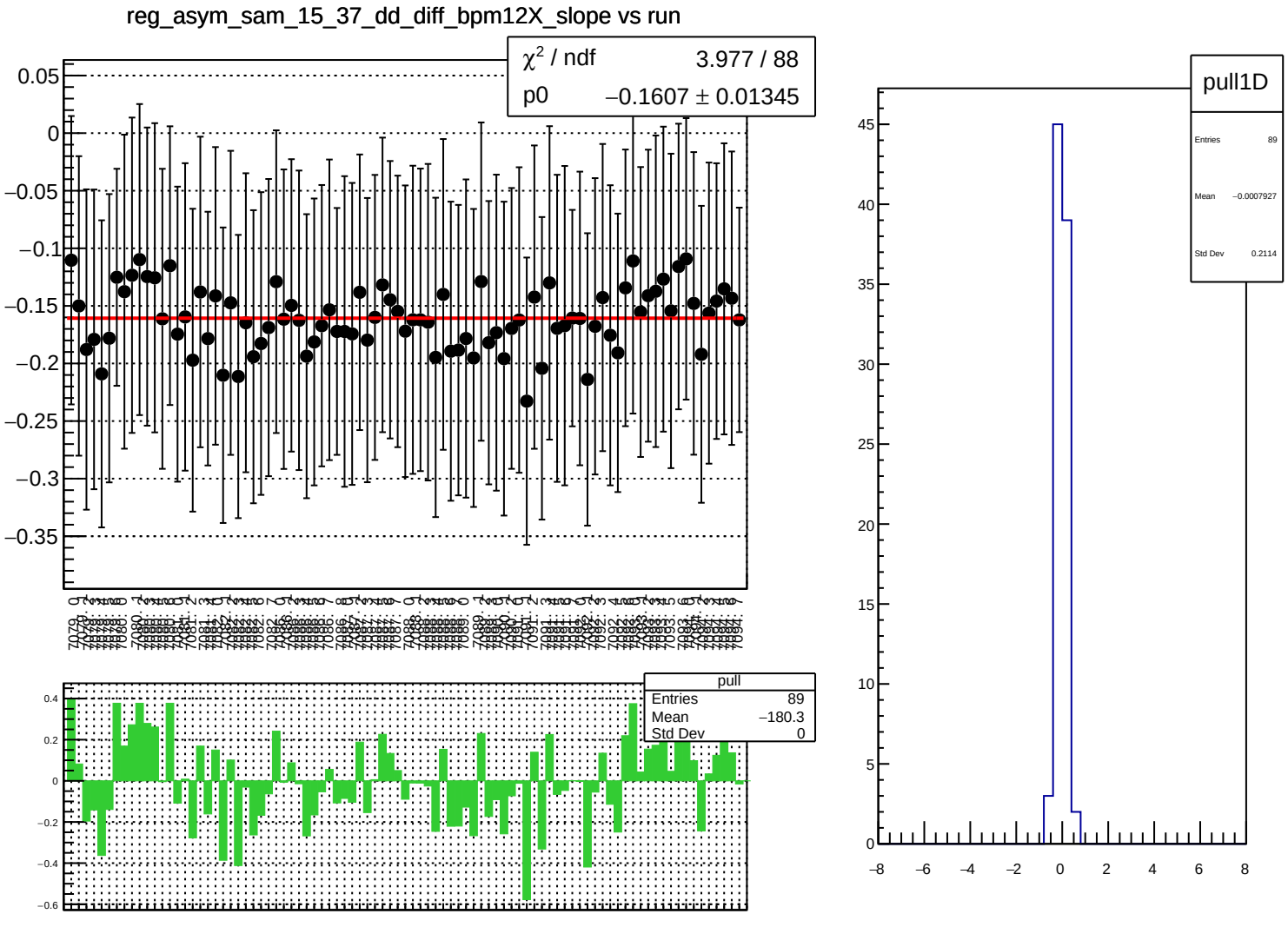

pull1D
Entries 89
Mean −0.0002624
Std Dev 0.3219

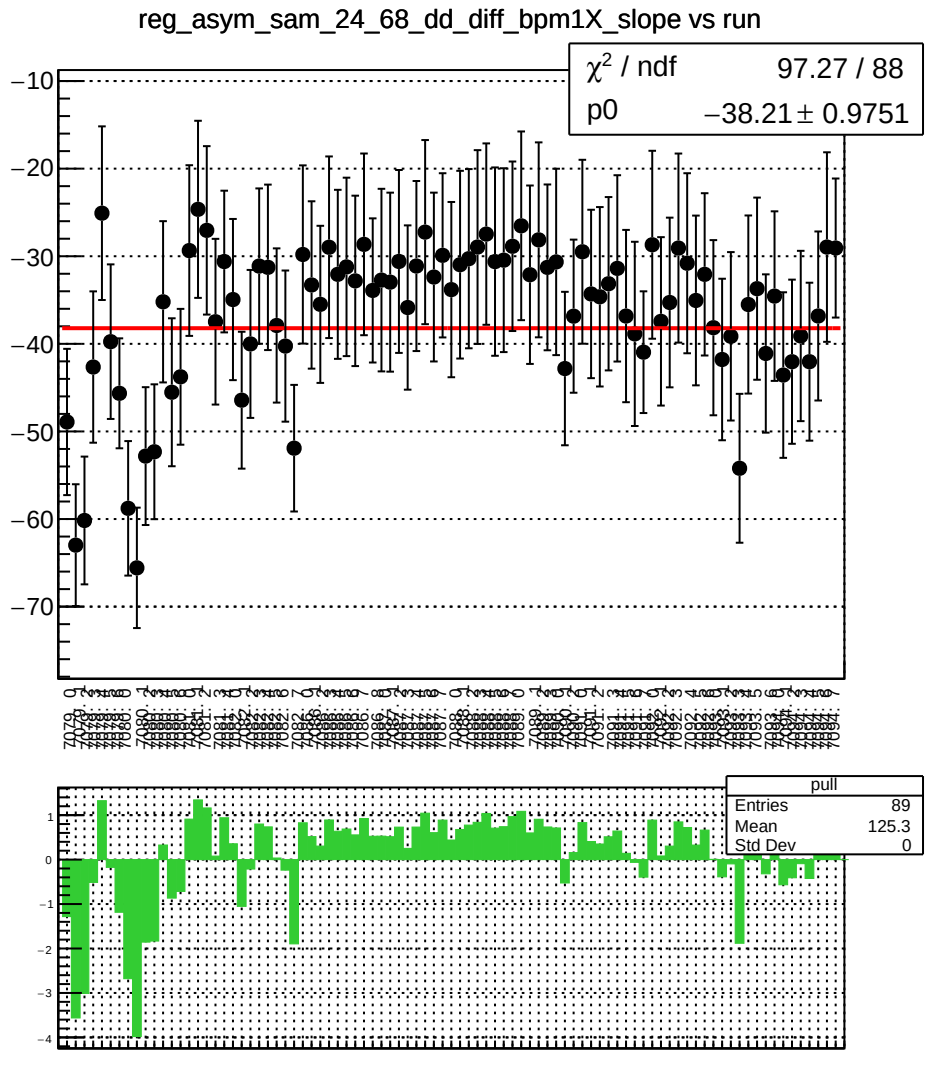

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 42.56 / 88
p0 6.166 ± 0.3862
pull
Entries 89
Mean 107.5
Std Dev 0
pull1D
Entries 89
Mean −0.05658
Std Dev 0.6892

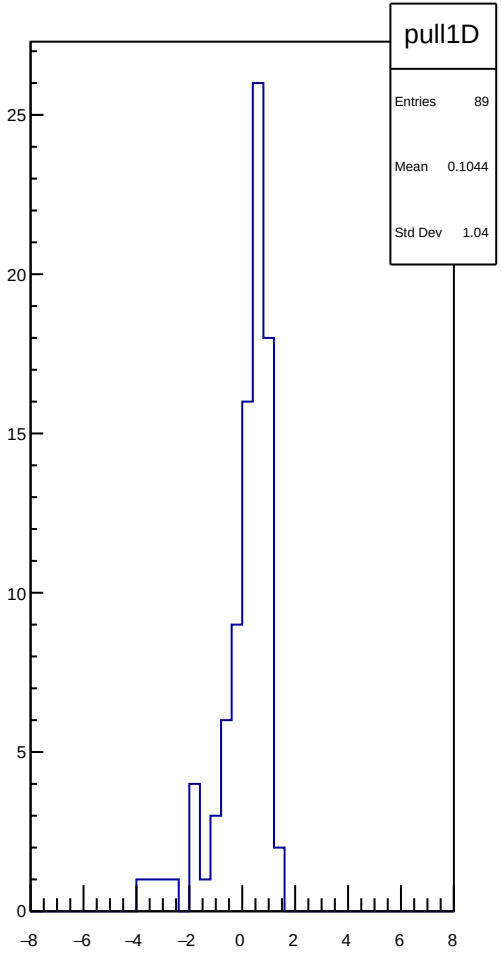

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.5 / 88
p0 −2.978 ± 0.2737
pull
Entries 89
Mean 405.7
Std Dev 0
pull1D
Entries 89
Mean 0.01861
Std Dev 0.4912

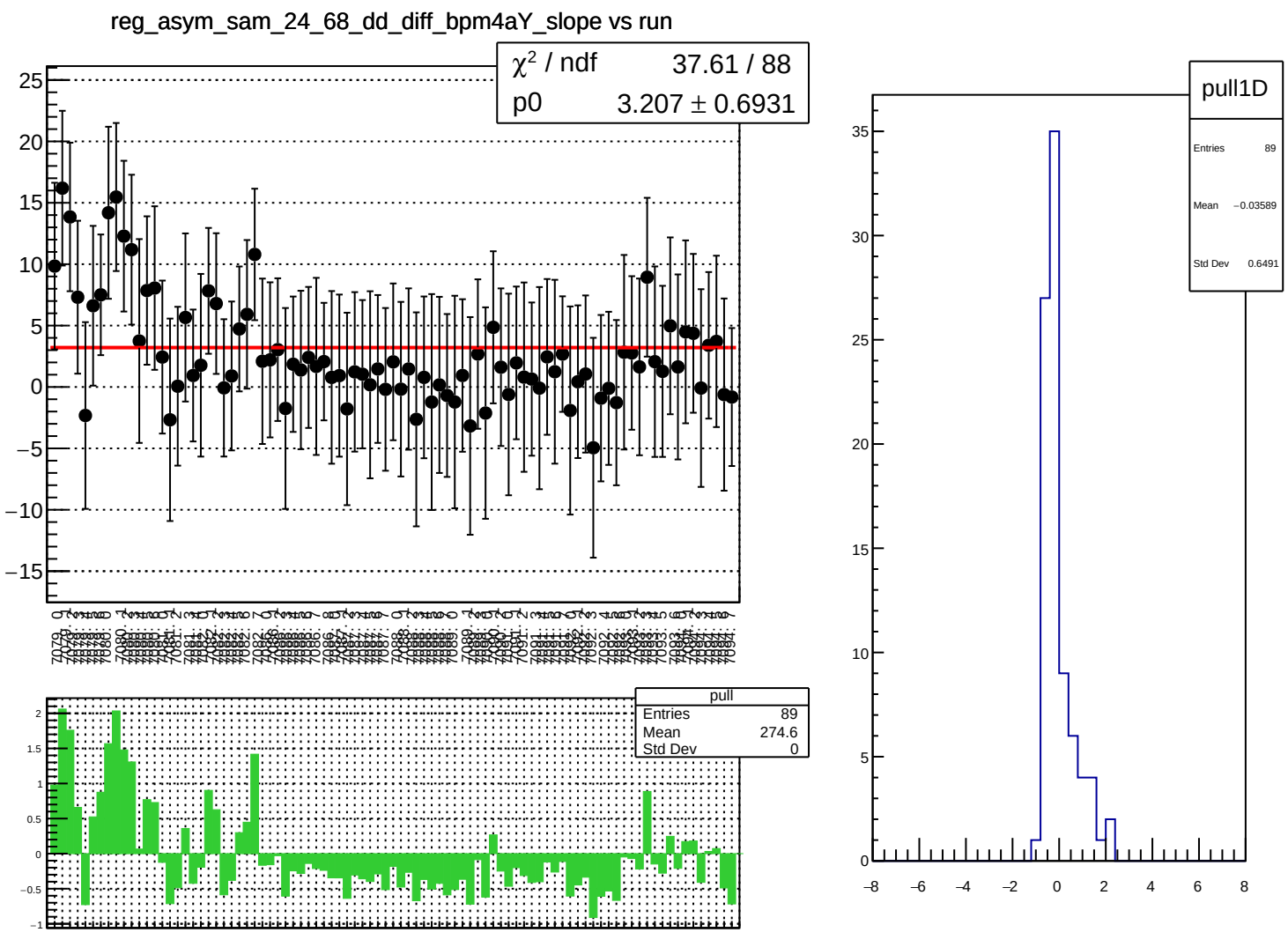

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.66 / 88
p0 33.34 ± 0.372
pull
Entries 89
Mean 56.59
Std Dev 0
pull1D
Entries 89
Mean 0.04631
Std Dev 0.5754

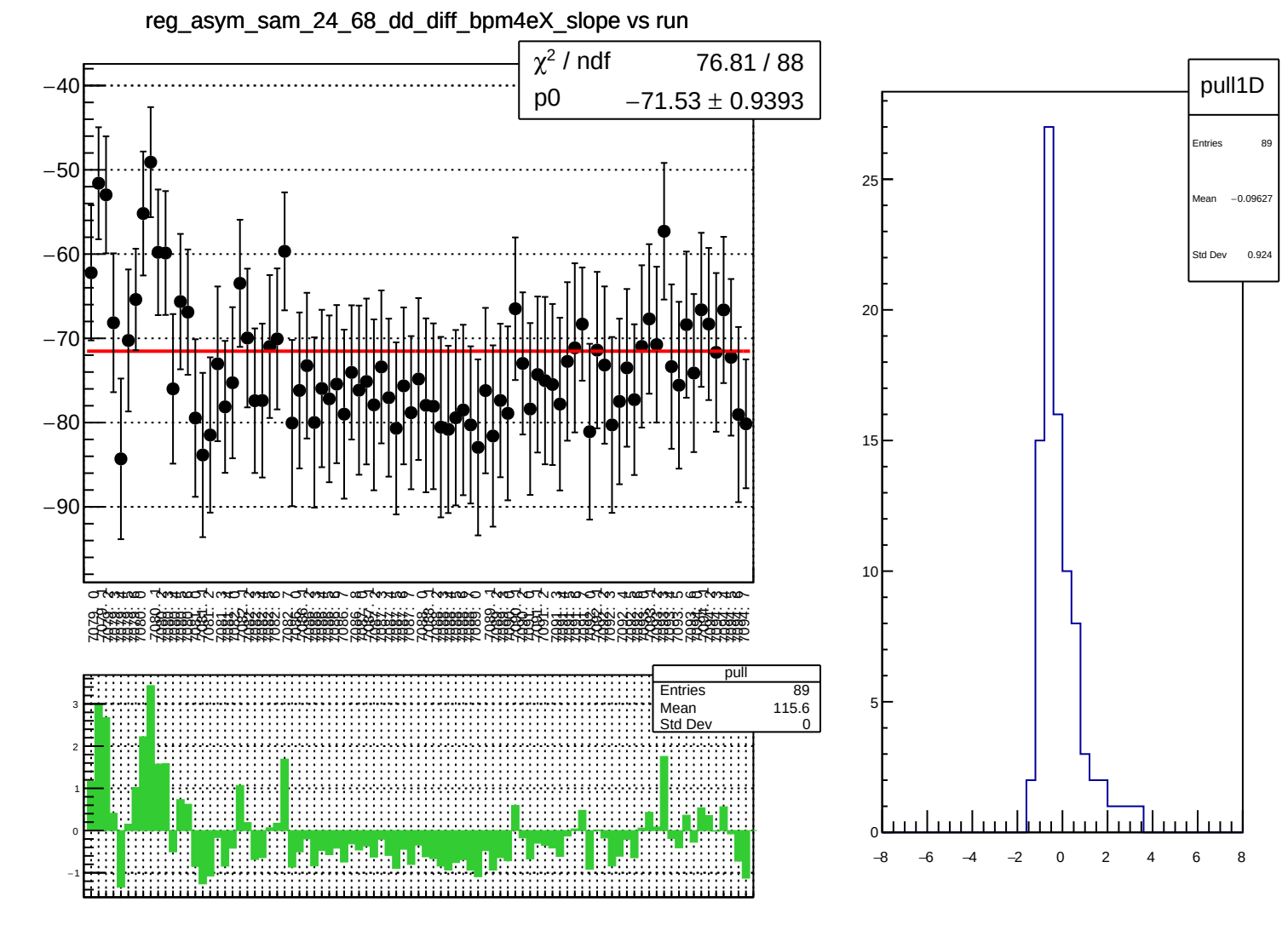

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.44 / 88
p0 25.26 ± 0.2878
pull
Entries 89
Mean 557.6
Std Dev 0
pull1D
Entries 89
Mean −0.01981
Std Dev 0.7221

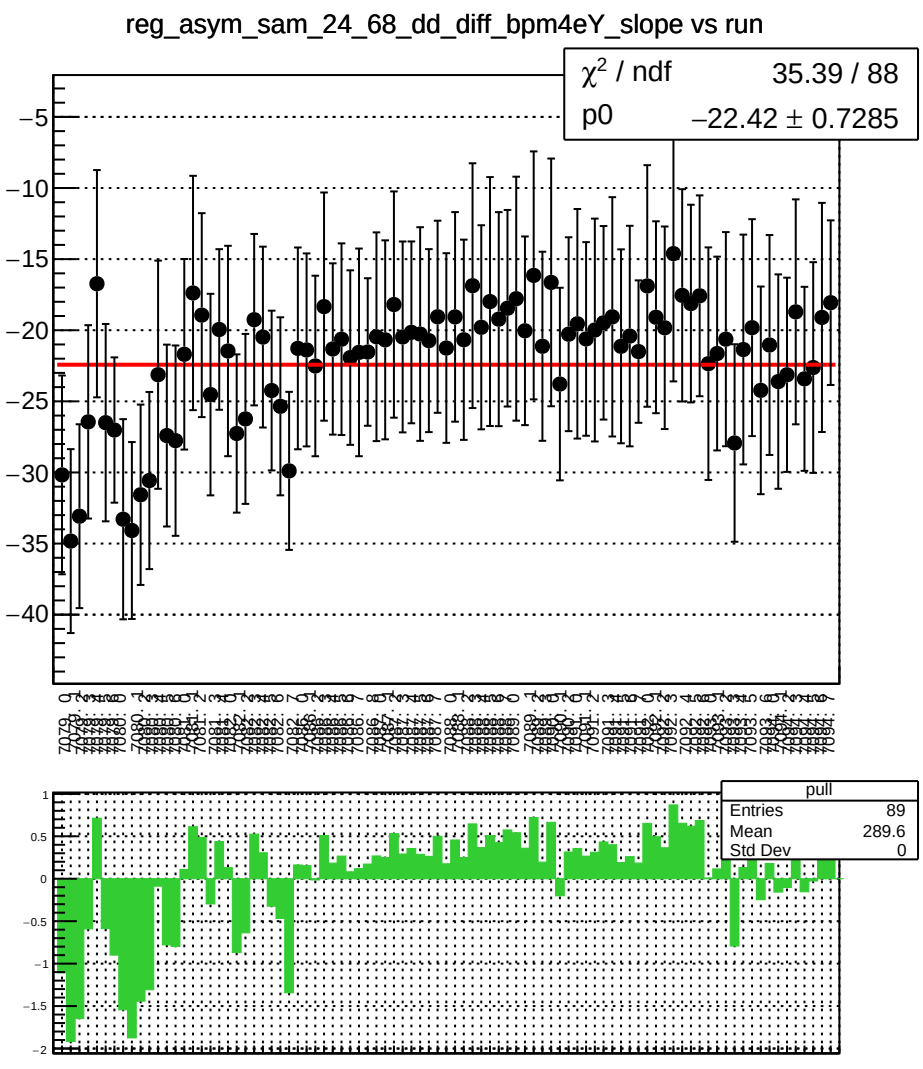

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.977 / 88
p0 −0.1607 ± 0.01345
pull
Entries 89
Mean −180.3
Std Dev 0
pull1D
Entries 89
Mean −0.0007927
Std Dev 0.2114

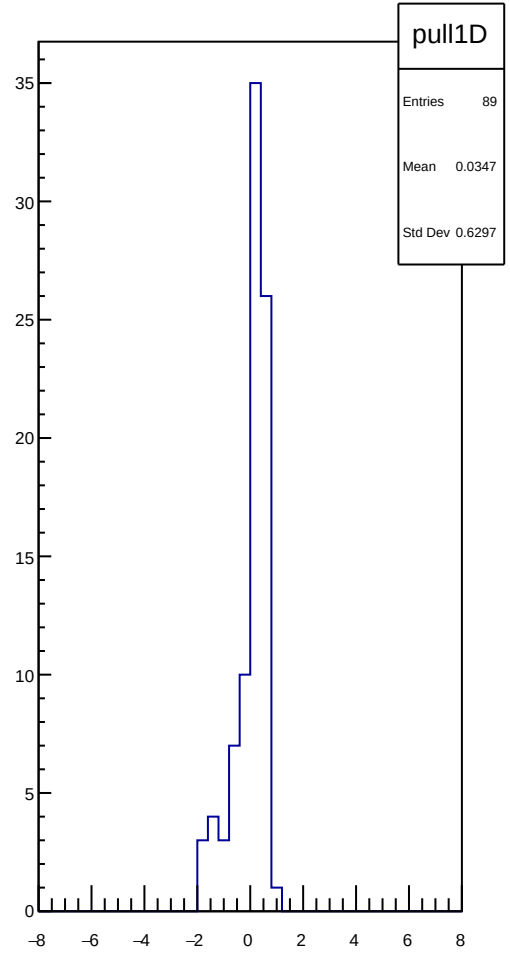

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 97.27 / 88
p0 −38.21 ± 0.9751
pull
Entries 89
Mean 125.3
Std Dev 0

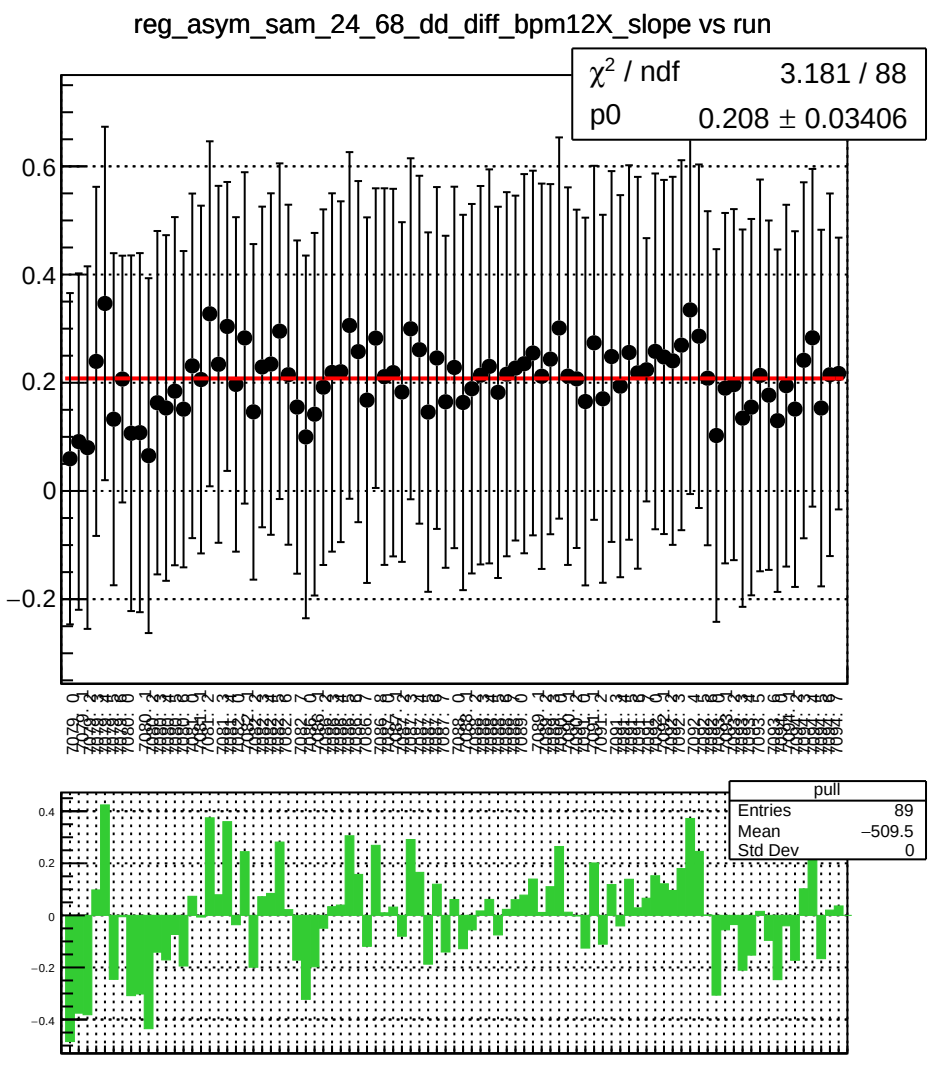

pull1D
Entries 89
Mean 0.1044
Std Dev 1.04

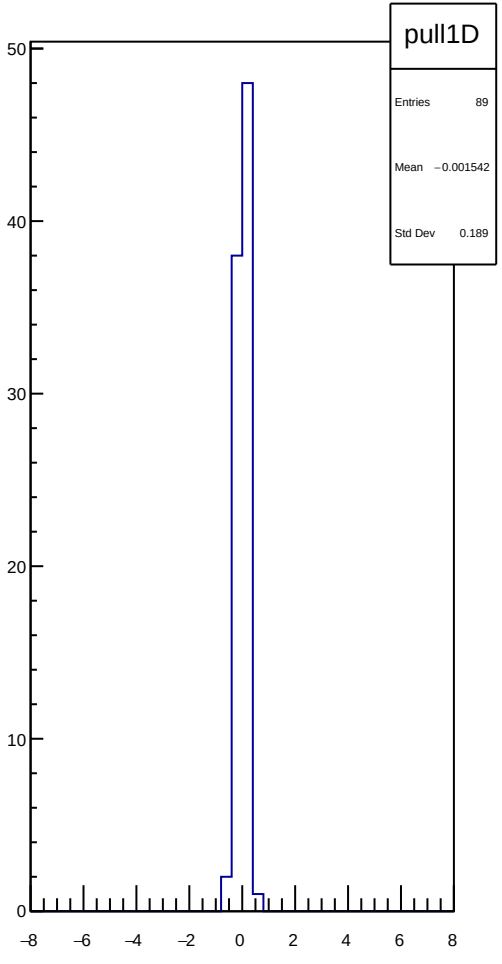

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.61 / 88
p0 3.207 ± 0.6931
pull
Entries 89
Mean 274.6
Std Dev 0
pull1D
Entries 89
Mean −0.03589
Std Dev 0.6491

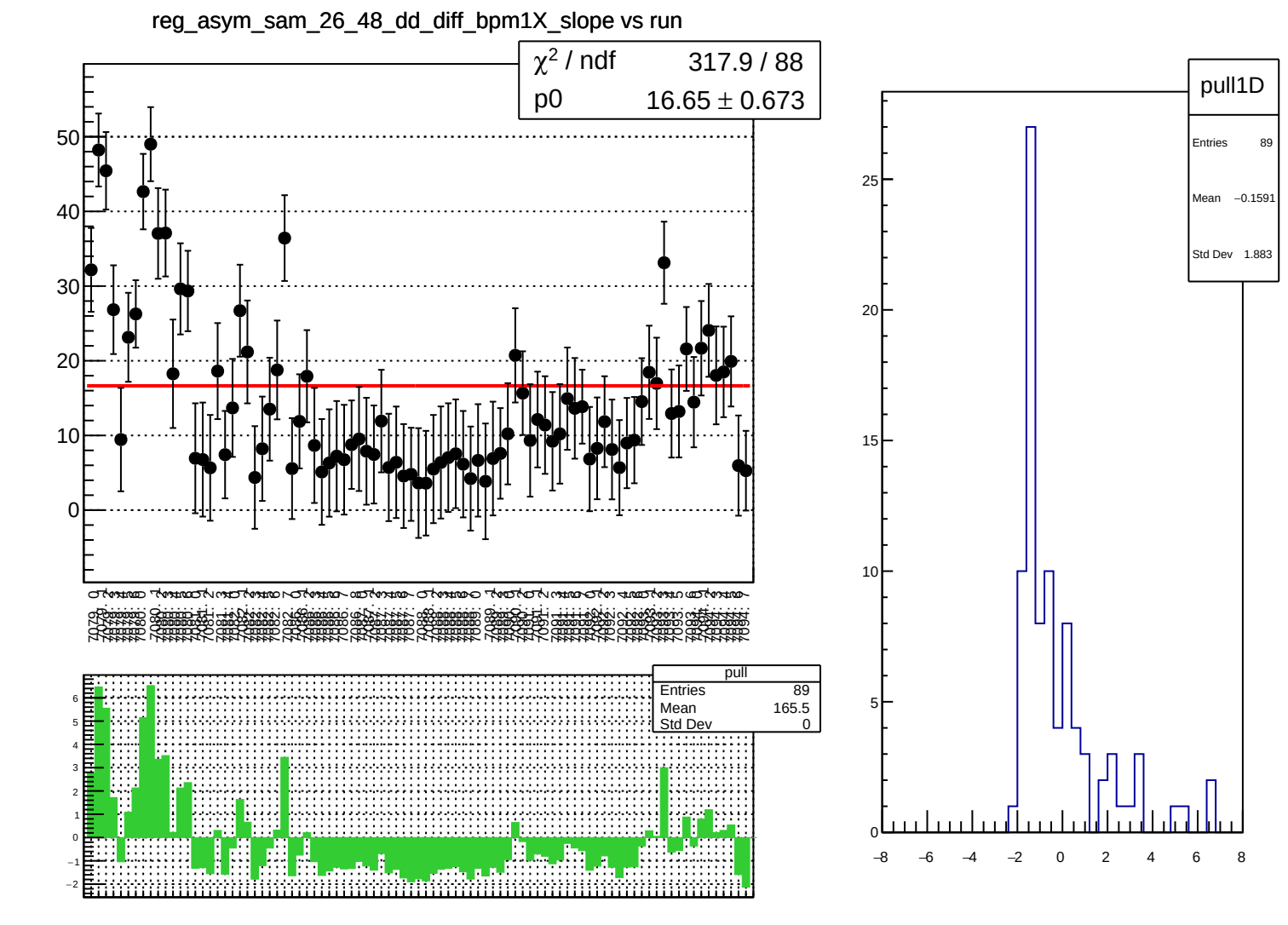

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.81 / 88
p0 −71.53 ± 0.9393
−40
−50
−60
−70
−80
−90
pull
Entries 89
Mean 115.6
Std Dev 0
3
2
1
0
−1
pull1D
Entries 89
Mean −0.09627
Std Dev 0.924
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

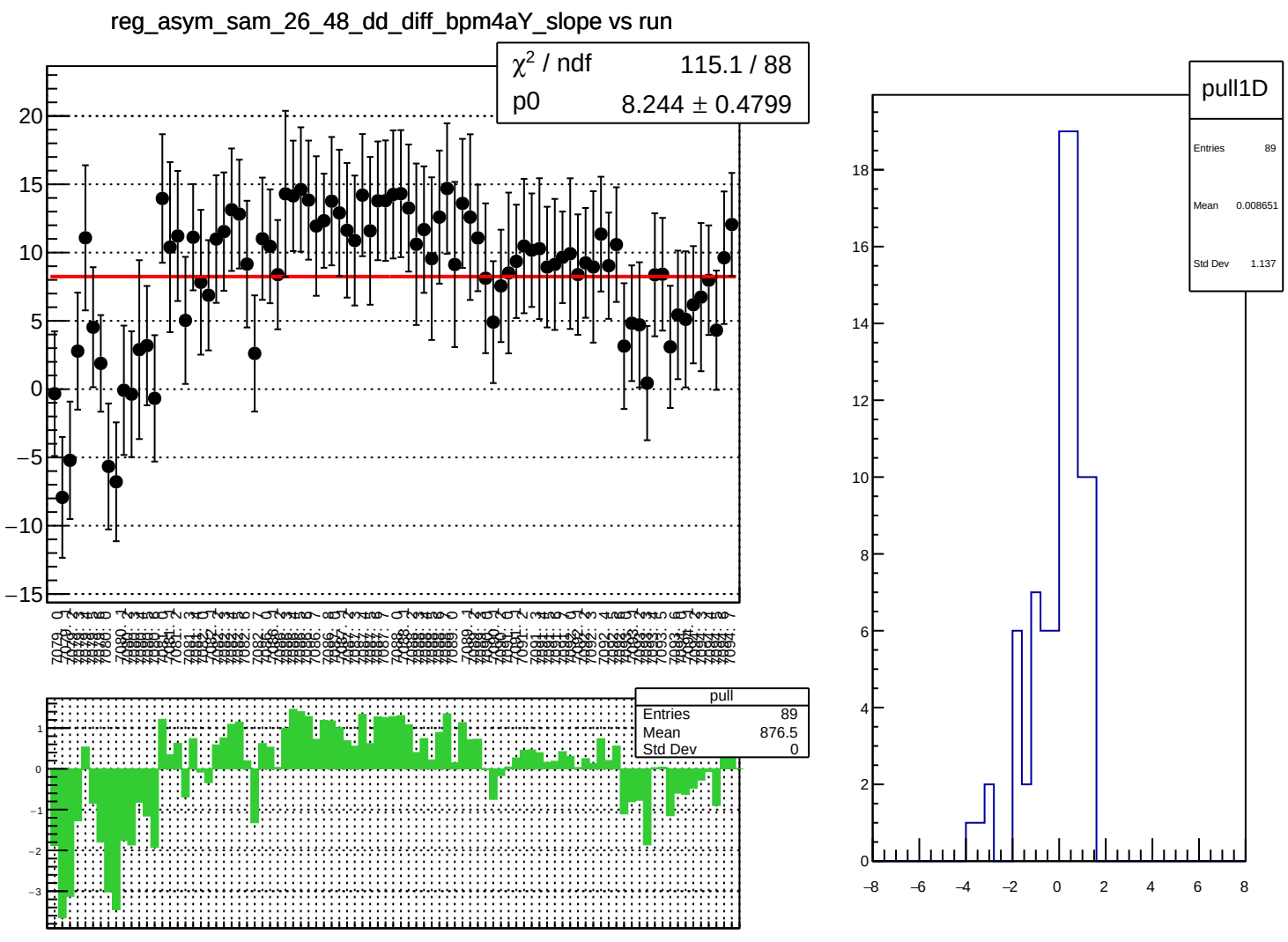

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.39 / 88
p0 −22.42 ± 0.7285
pull
Entries 89
Mean 289.6
Std Dev 0

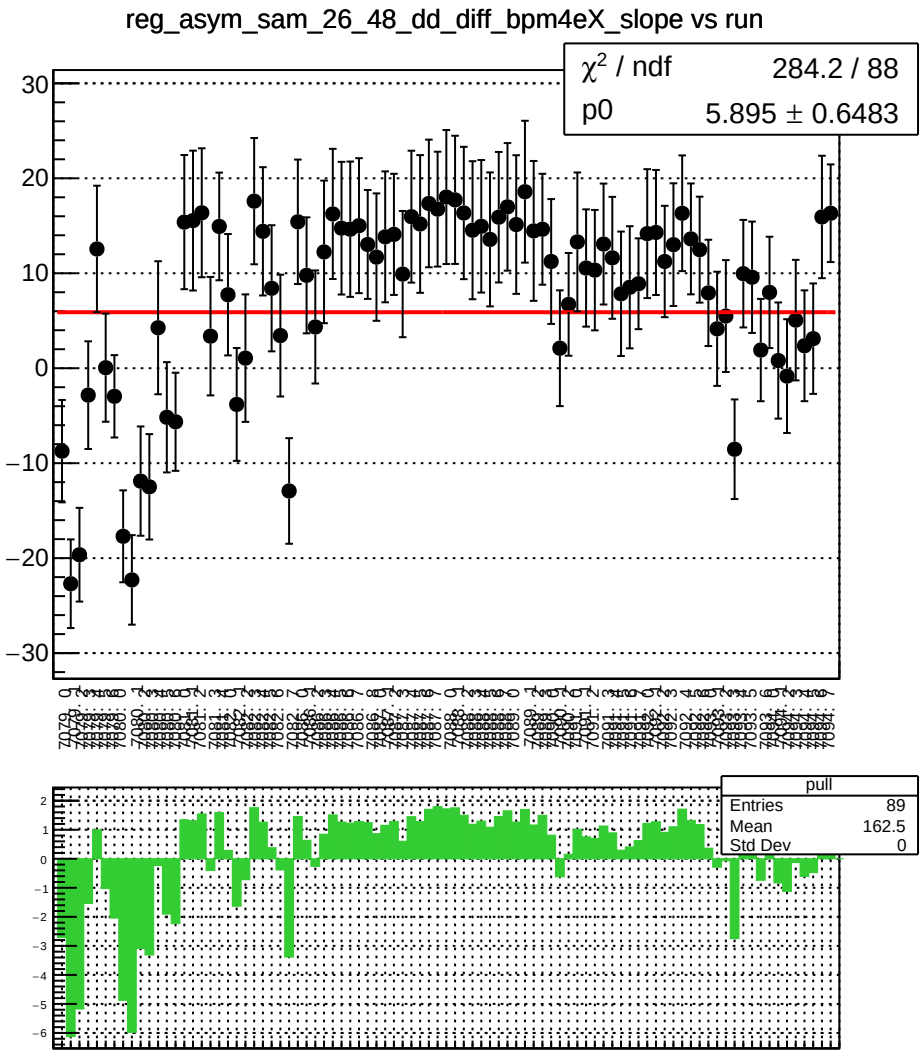

pull1D
Entries 89
Mean 0.0347
Std Dev 0.6297

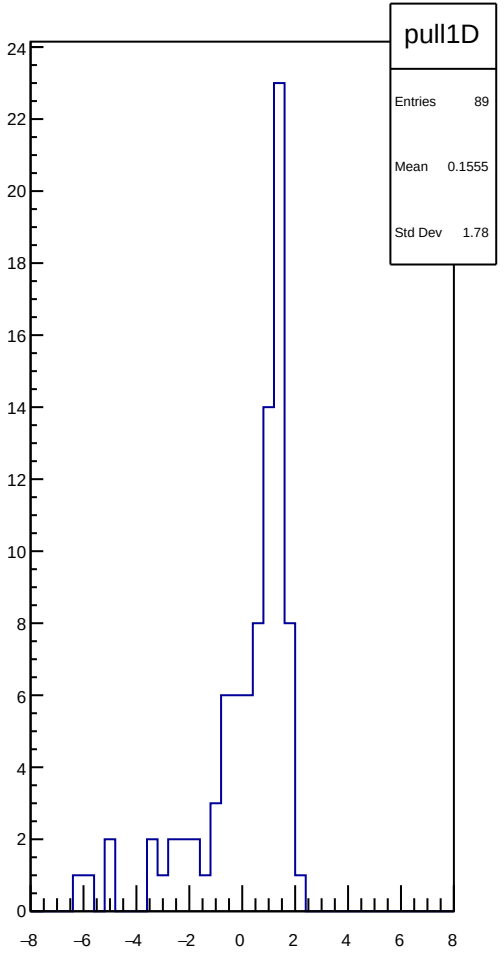

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.181 / 88
p0 0.208 ± 0.03406
pull
Entries 89
Mean −509.5
Std Dev 0

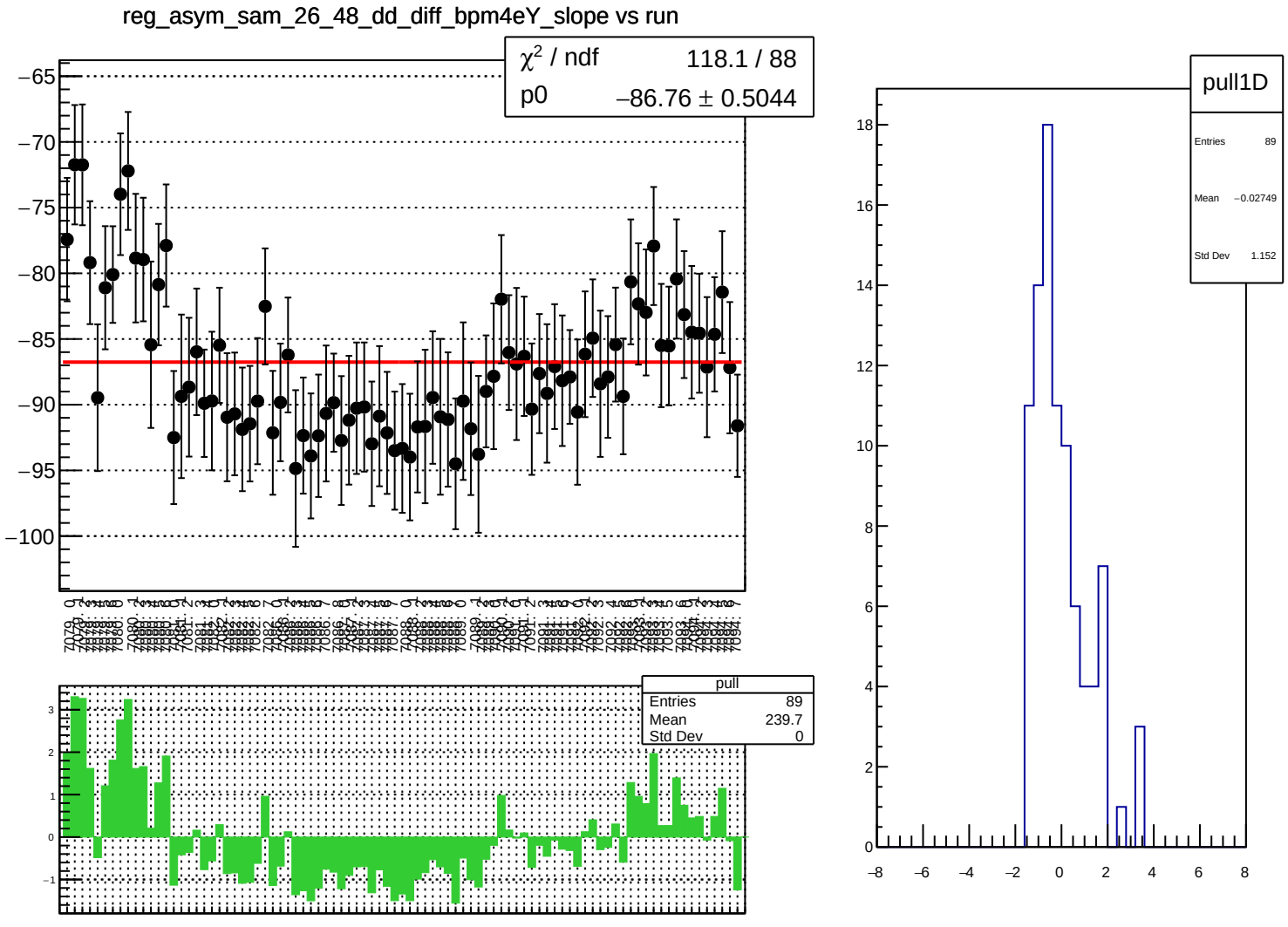

pull1D
Entries 89
Mean −0.001542
Std Dev 0.189

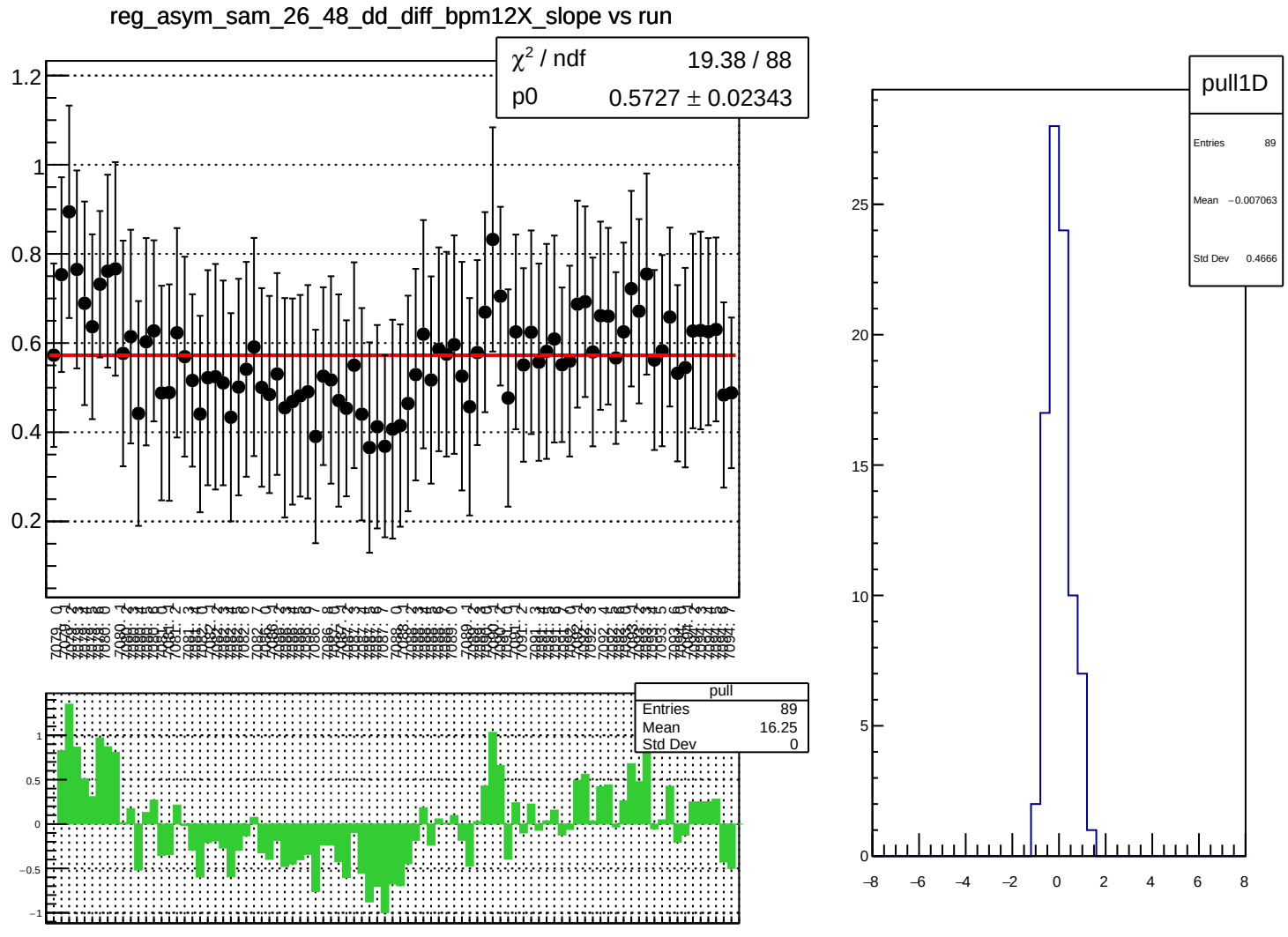

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 317.9 / 88
p0 16.65 ± 0.673
pull
Entries 89
Mean 165.5
Std Dev 0
pull1D
Entries 89
Mean −0.1591
Std Dev 1.883

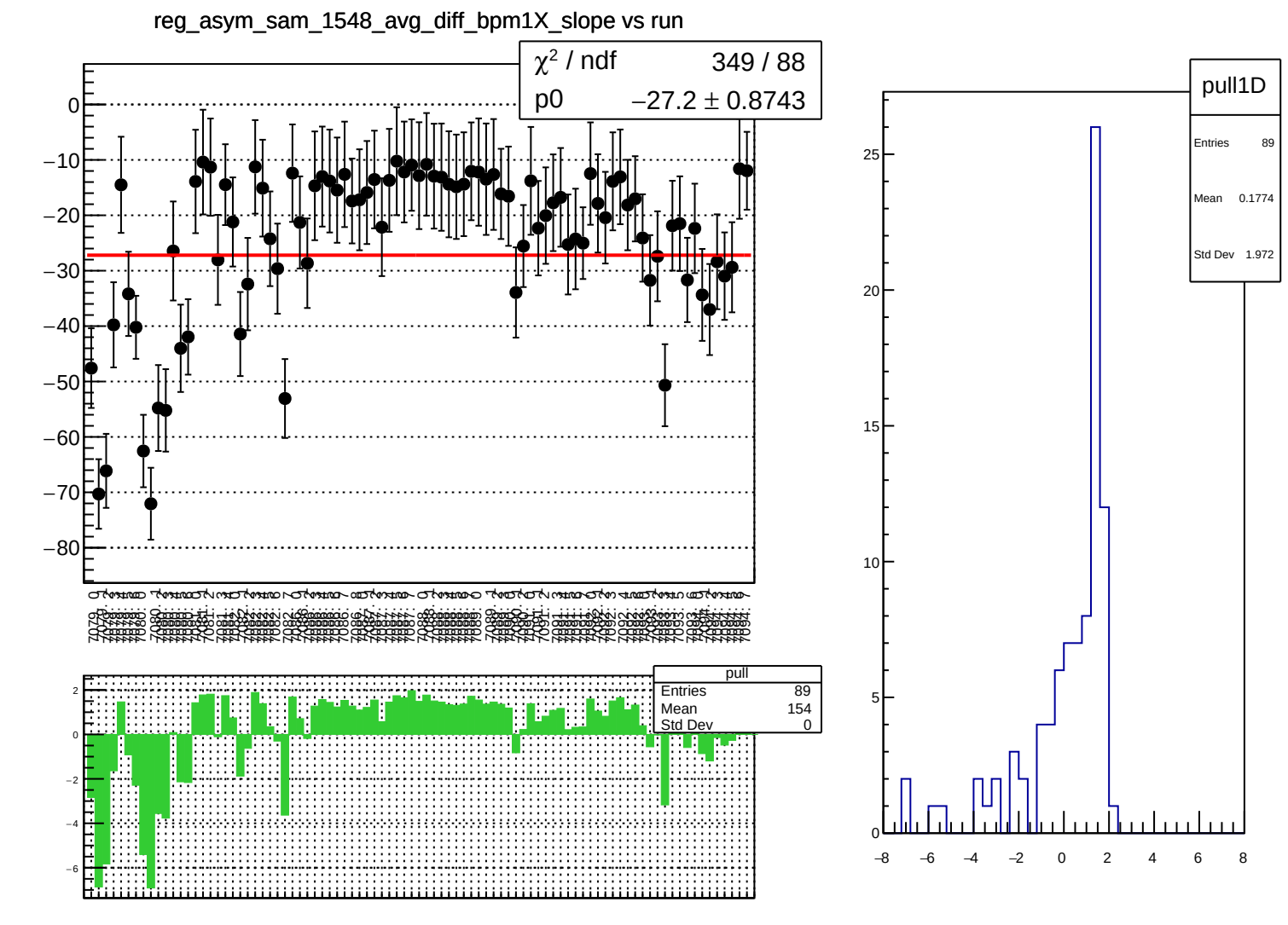

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 115.1 / 88
p0 8.244 ± 0.4799
pull
Entries 89
Mean 876.5
Std Dev 0
pull1D
Entries 89
Mean 0.008651
Std Dev 1.137

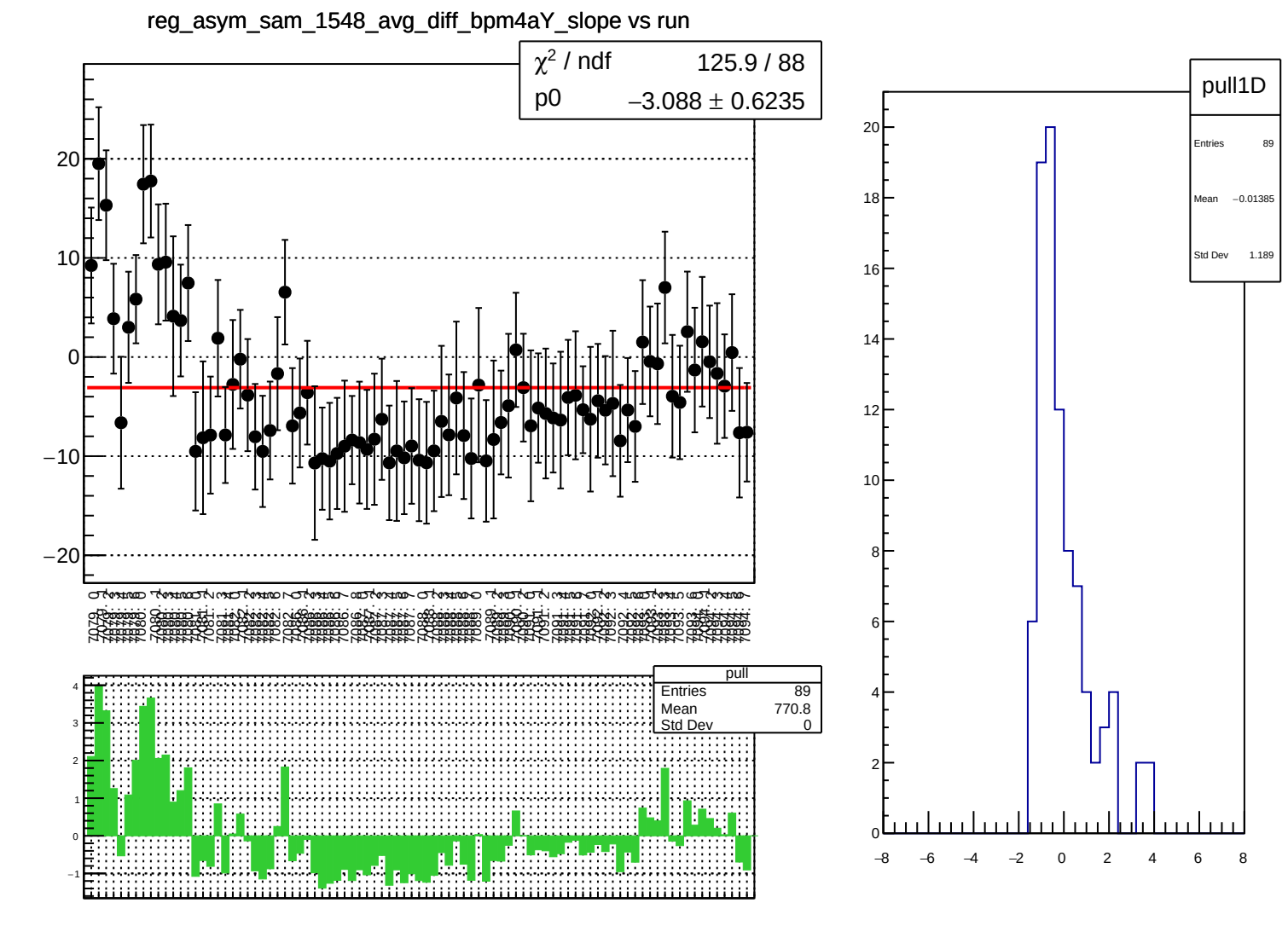

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 284.2 / 88
p0 5.895 ± 0.6483
pull
Entries 89
Mean 162.5
Std Dev 0

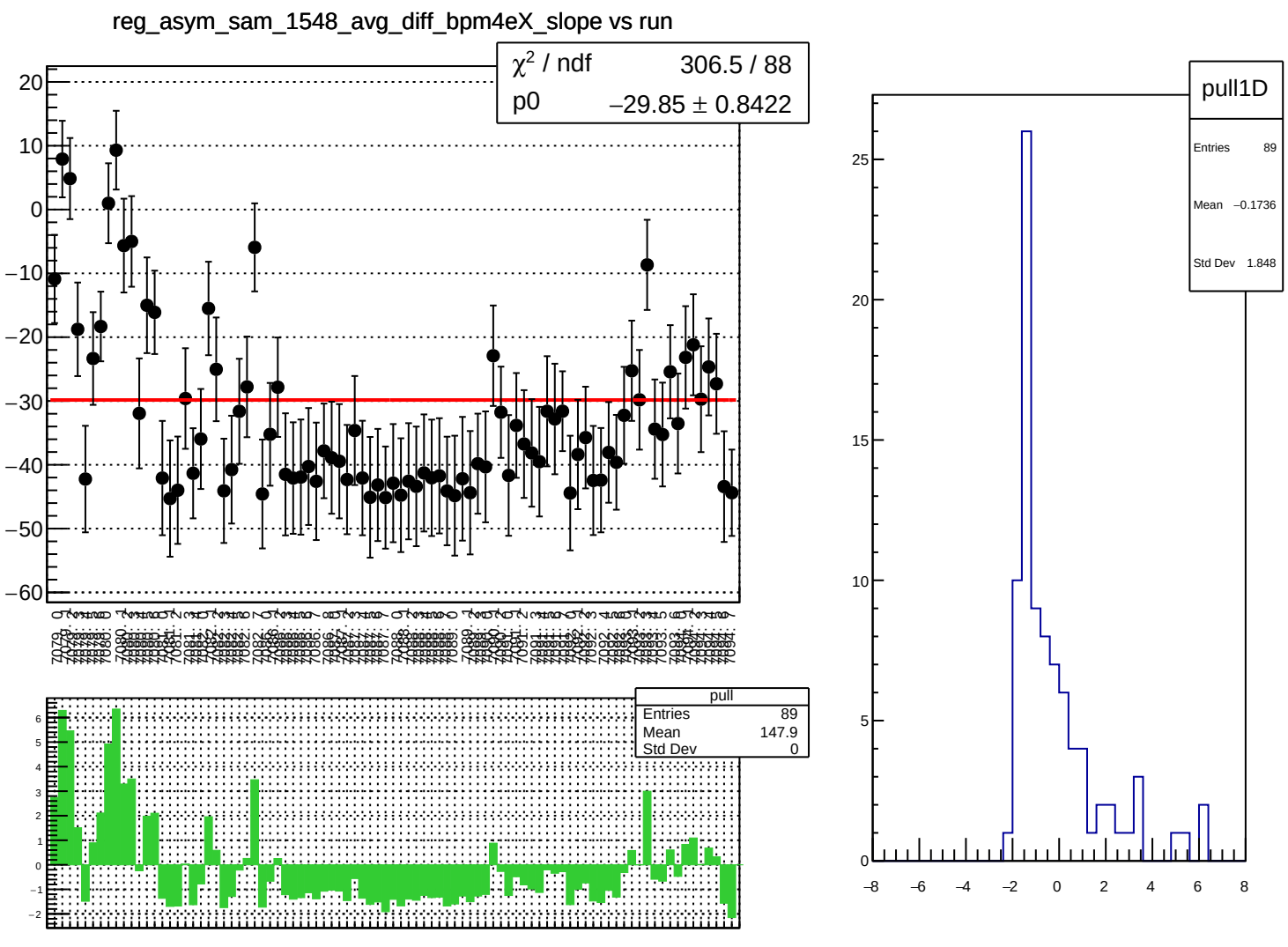

pull1D
Entries 89
Mean 0.1555
Std Dev 1.78

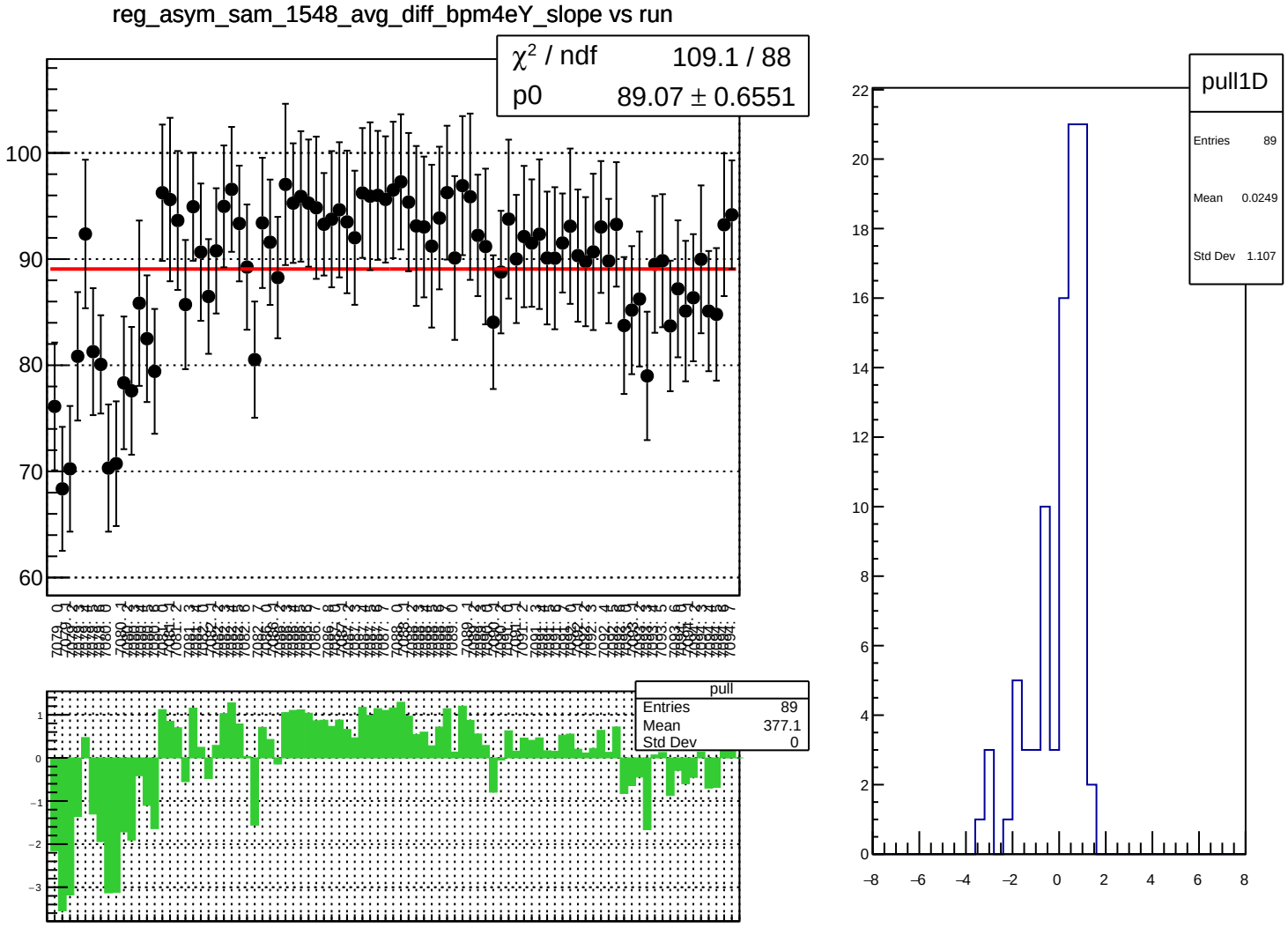

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 118.1 / 88
p0 −86.76 ± 0.5044
pull
Entries 89
Mean 239.7
Std Dev 0
pull1D
Entries 89
Mean −0.02749
Std Dev 1.152

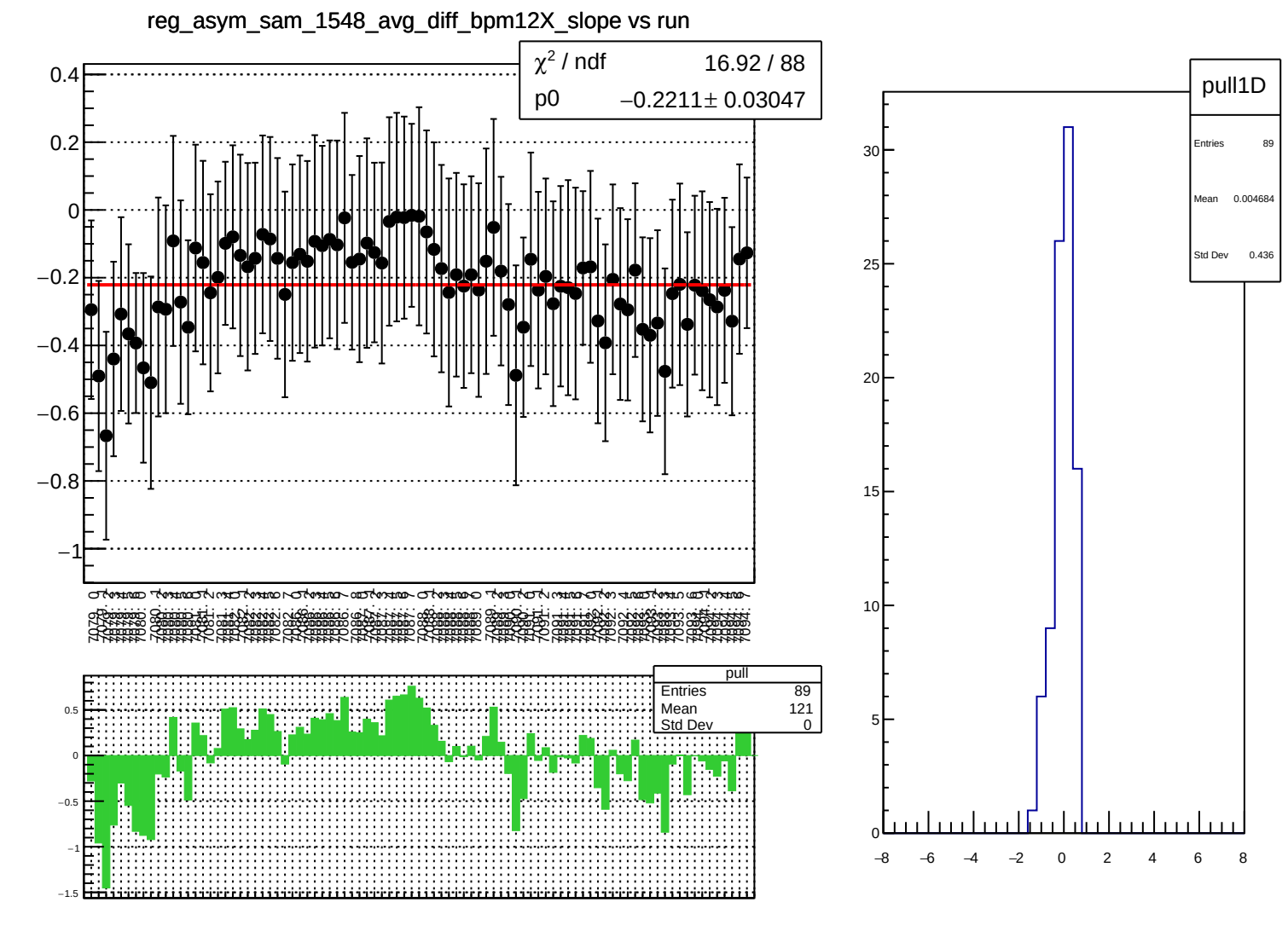

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 19.38 / 88
p0 0.5727 ± 0.02343
pull
Entries 89
Mean 16.25
Std Dev 0
pull1D
Entries 89
Mean −0.007063
Std Dev 0.4666

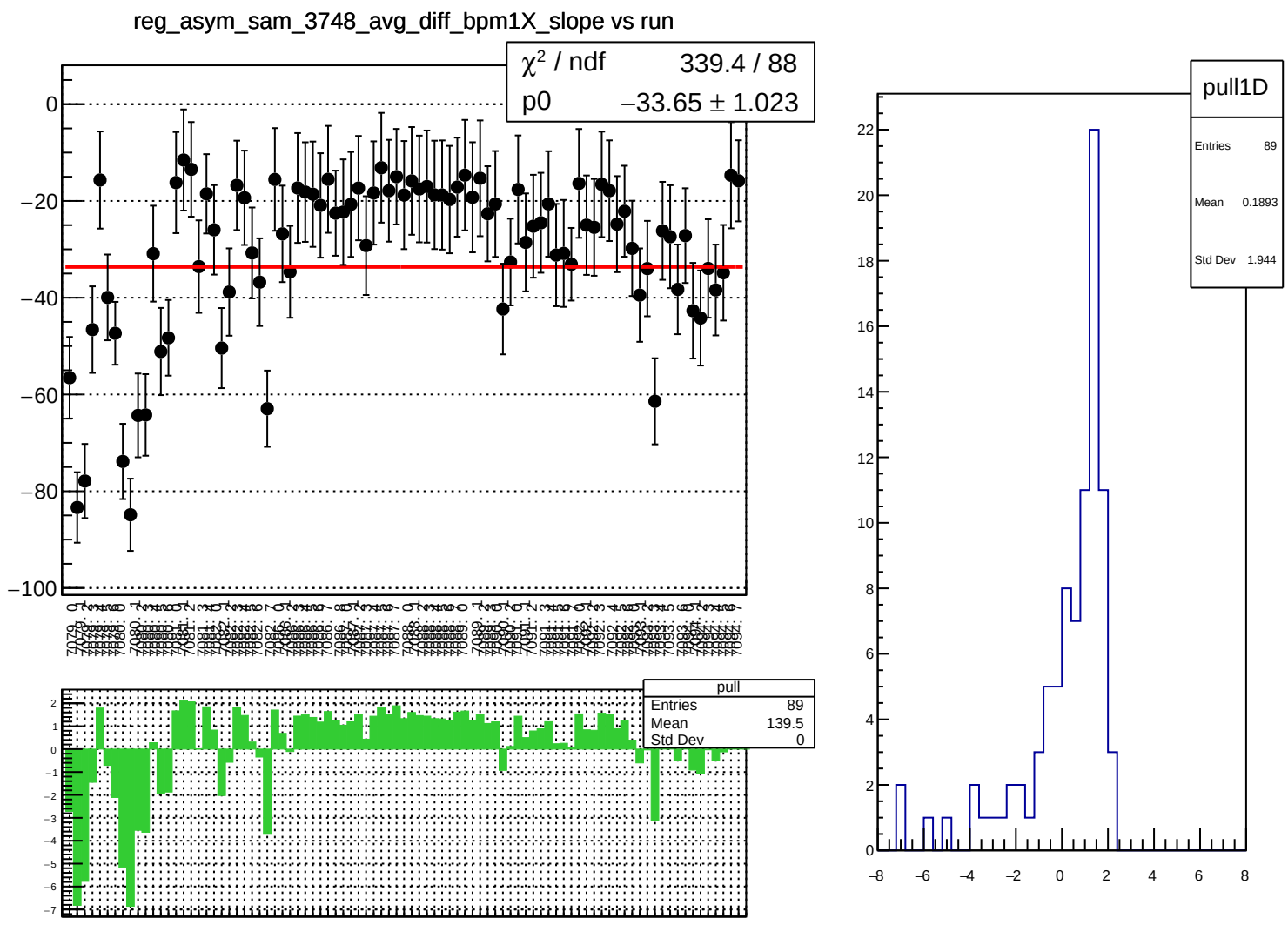

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 349 / 88
p0 −27.2 ± 0.8743
pull
Entries 89
Mean 154
Std Dev 0
pull1D
Entries 89
Mean 0.1774
Std Dev 1.972

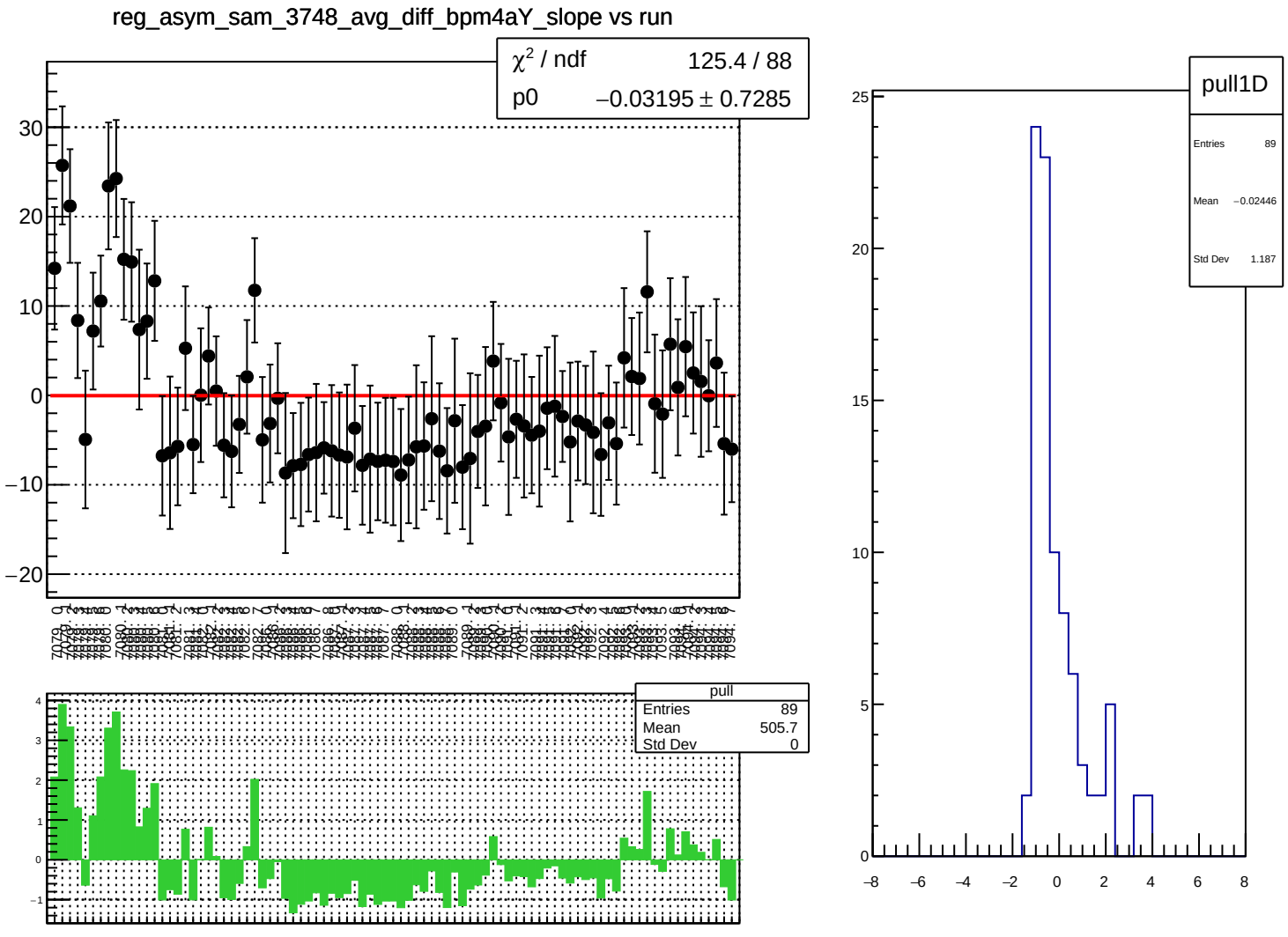

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 125.9 / 88
p0 −3.088 ± 0.6235
pull
Entries 89
Mean 770.8
Std Dev 0
pull1D
Entries 89
Mean −0.01385
Std Dev 1.189

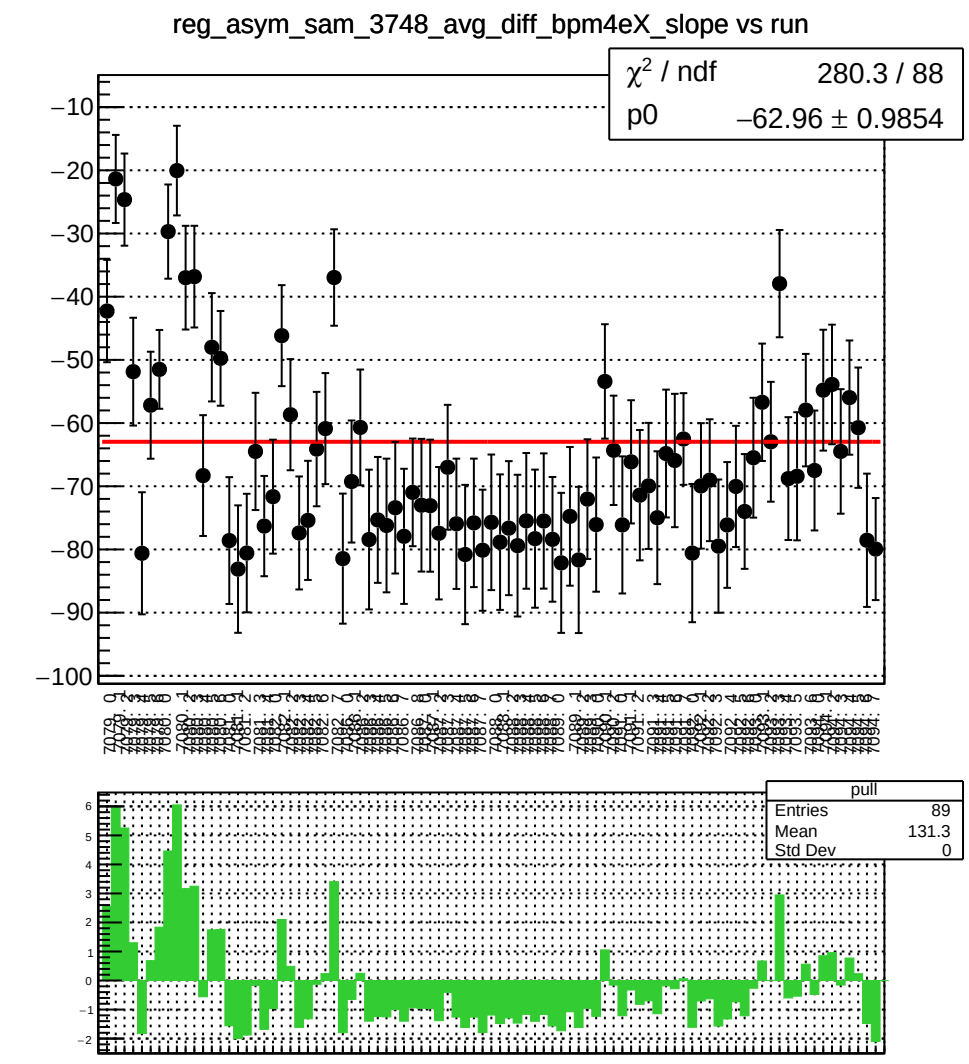

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 306.5 / 88
p0 −29.85 ± 0.8422
pull
Entries 89
Mean 147.9
Std Dev 0
pull1D
Entries 89
Mean −0.1736
Std Dev 1.848

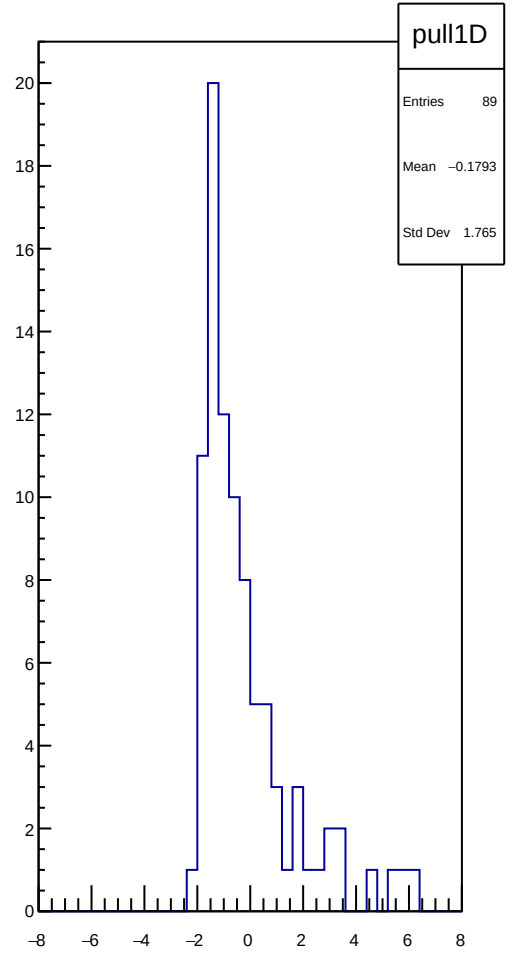

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 109.1 / 88
p0 89.07 ± 0.6551
pull
Entries 89
Mean 377.1
Std Dev 0
pull1D
Entries 89
Mean 0.0249
Std Dev 1.107

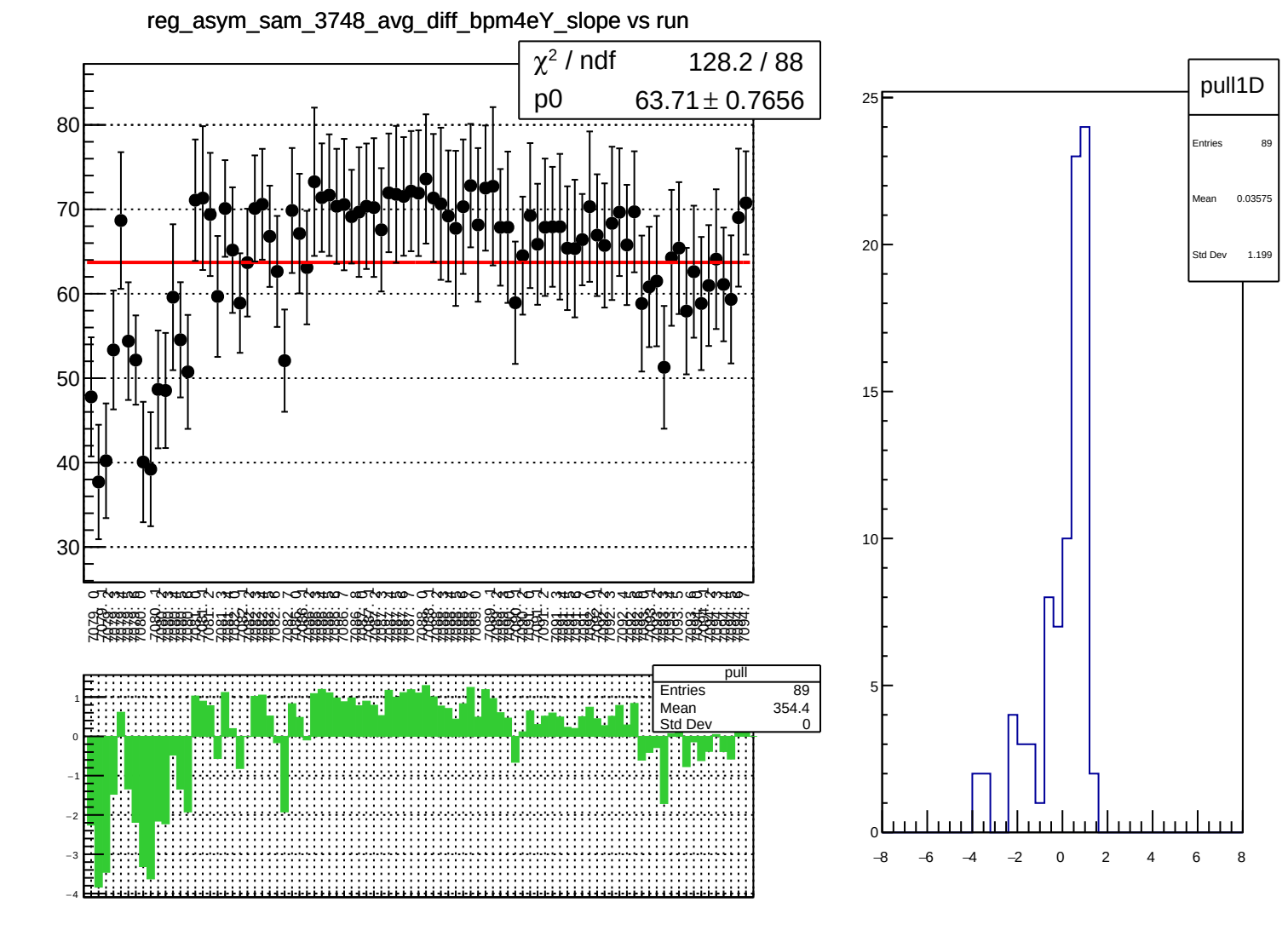

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 16.92 / 88
p0 −0.2211± 0.03047
pull
Entries 89
Mean 121
Std Dev 0
pull1D
Entries 89
Mean 0.004684
Std Dev 0.436

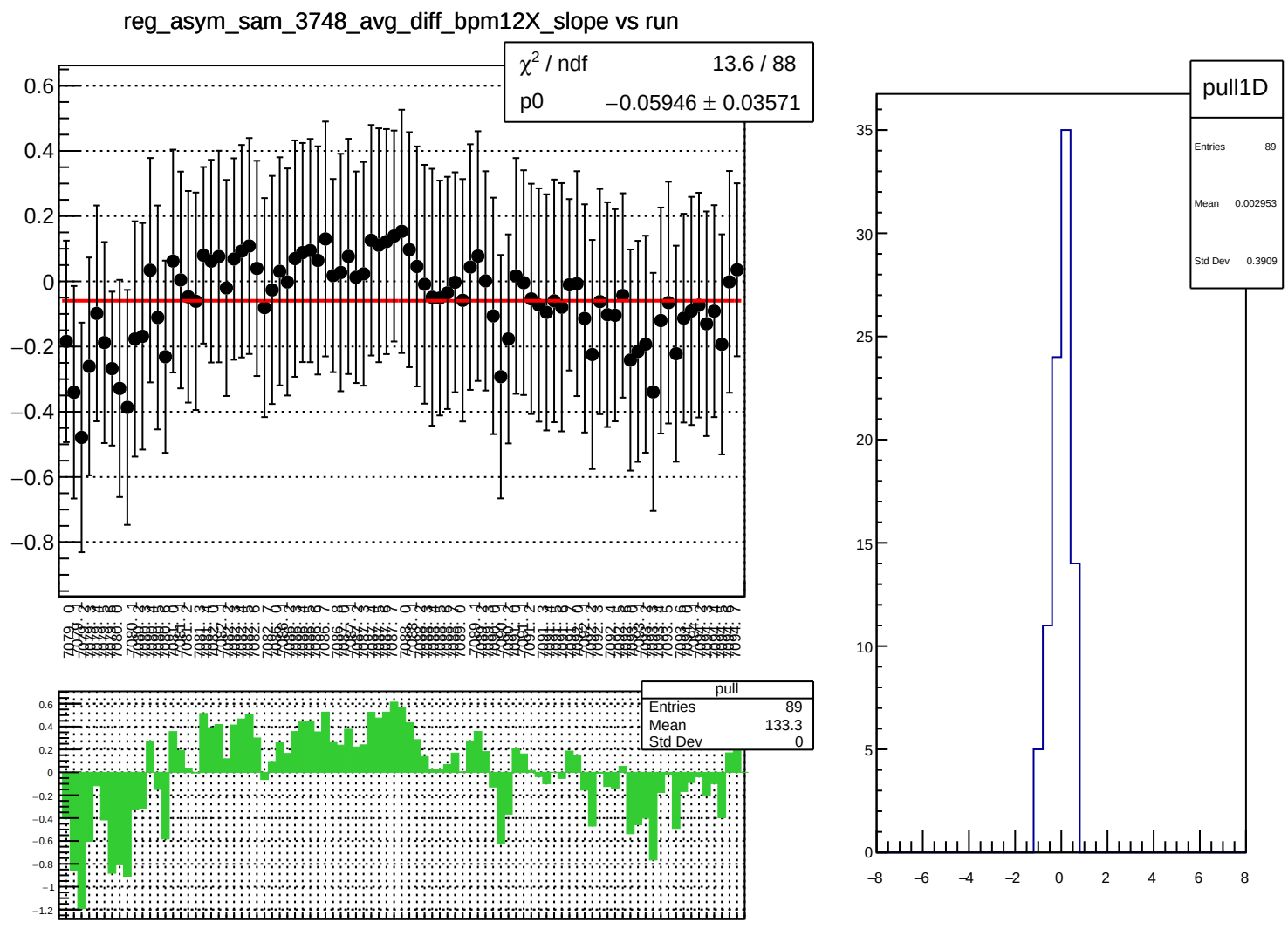

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 339.4 / 88
p0 −33.65 ± 1.023
pull
Entries 89
Mean 139.5
Std Dev 0
pull1D
Entries 89
Mean 0.1893
Std Dev 1.944

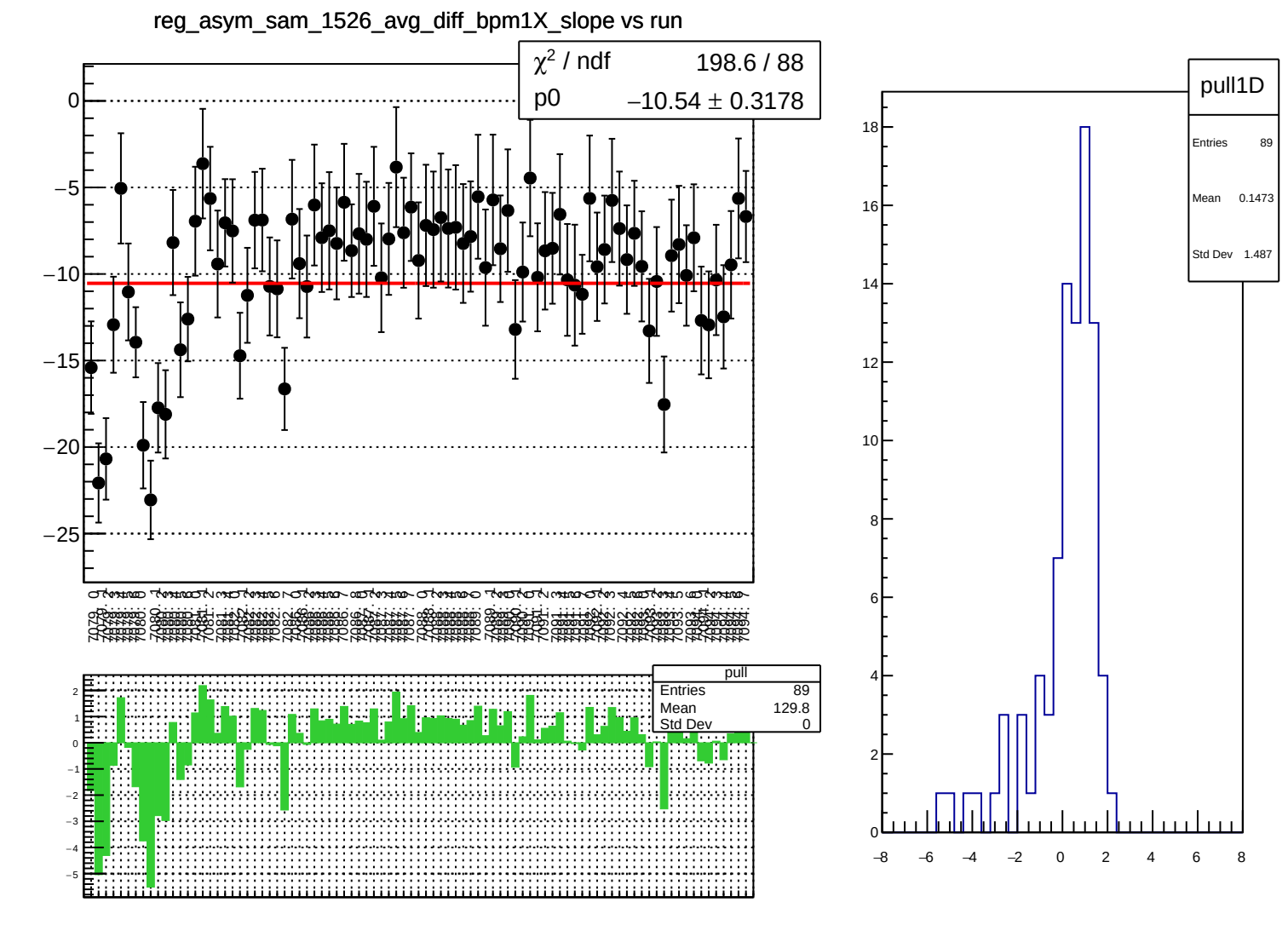

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 125.4 / 88
p0 −0.03195 ± 0.7285
pull
Entries 89
Mean 505.7
Std Dev 0
pull1D
Entries 89
Mean −0.02446
Std Dev 1.187

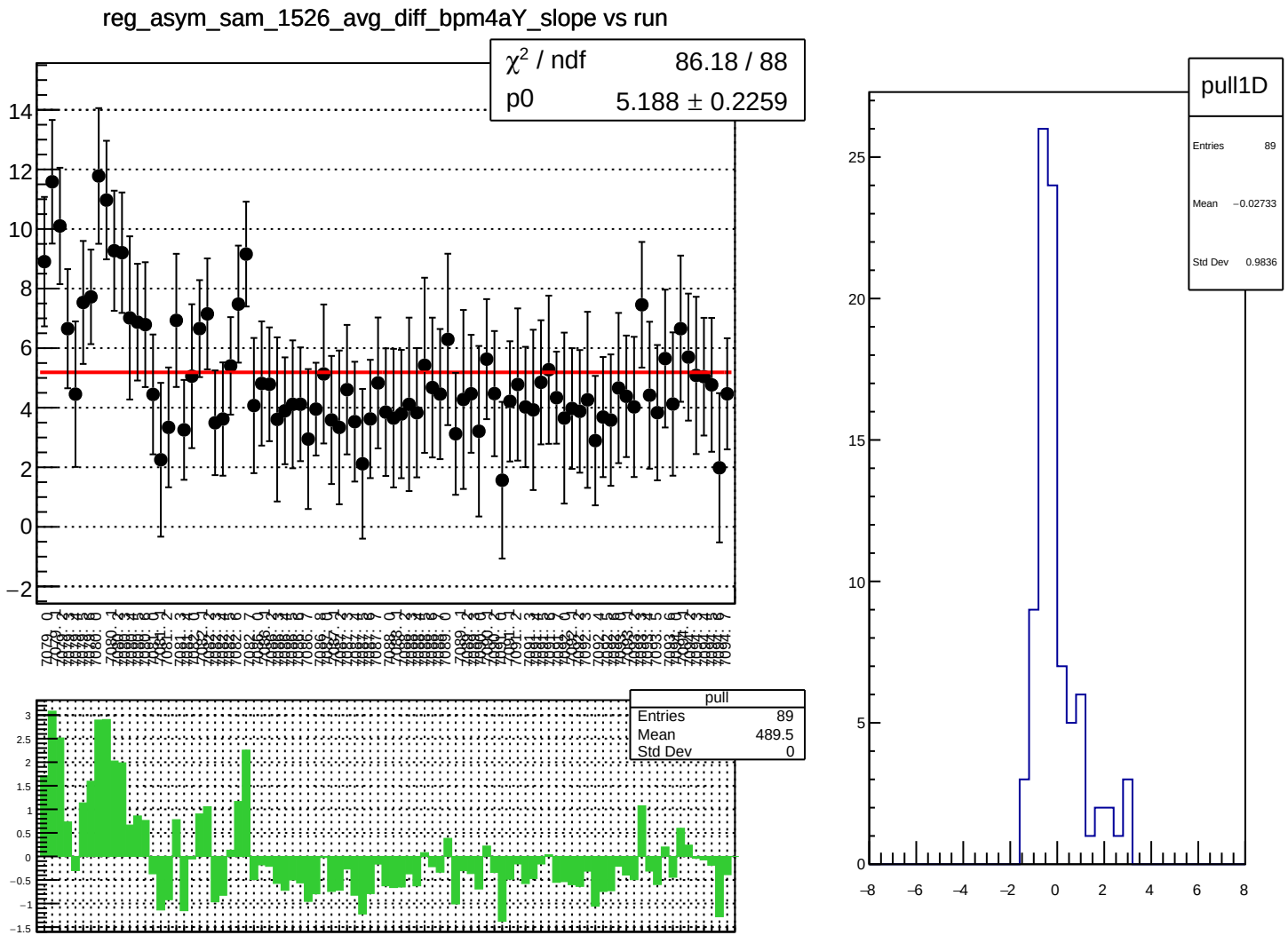

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 280.3 / 88
p0 −62.96 ± 0.9854
pull
Entries 89
Mean 131.3
Std Dev 0

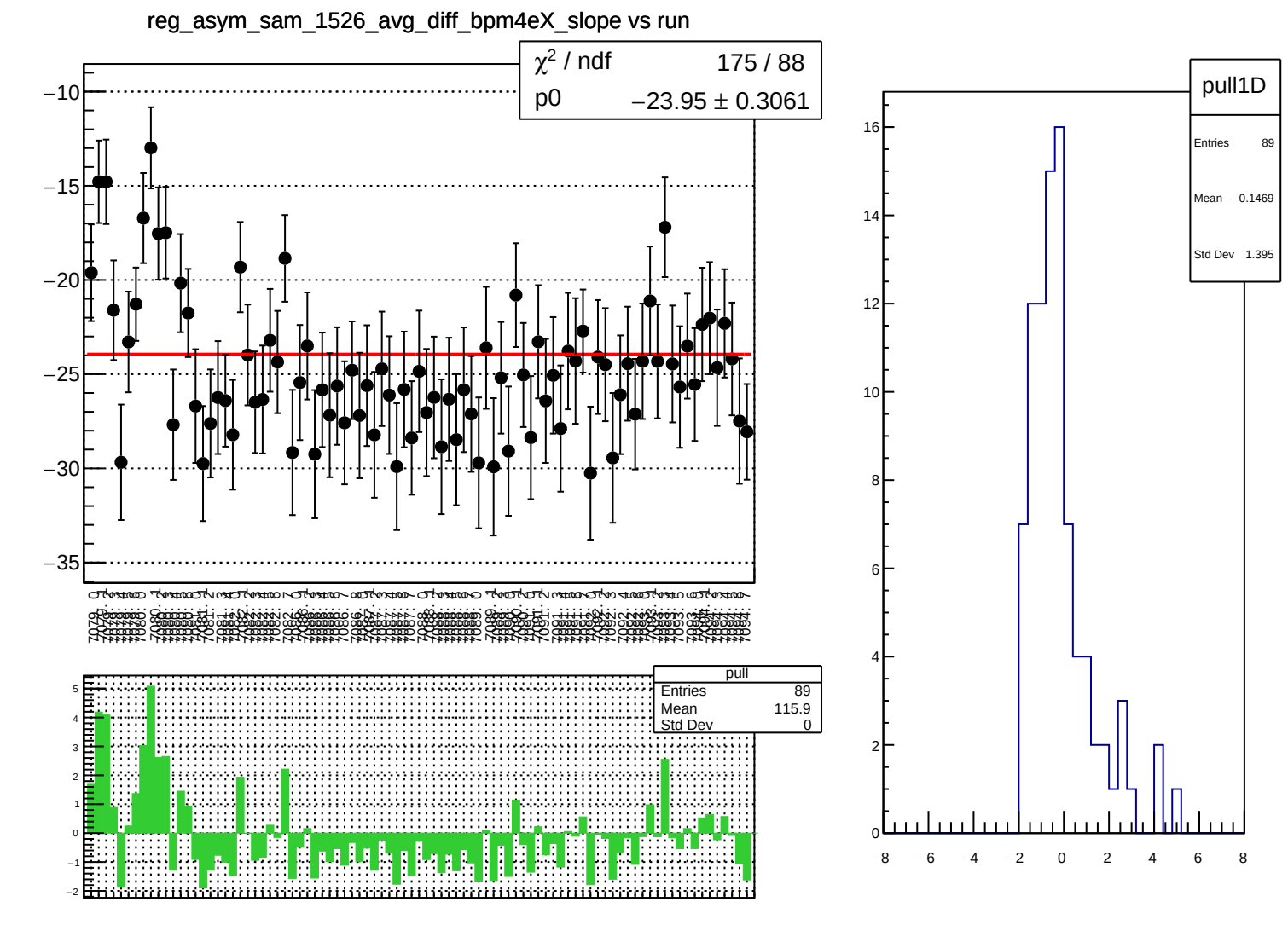

pull1D
Entries 89
Mean −0.1793
Std Dev 1.765

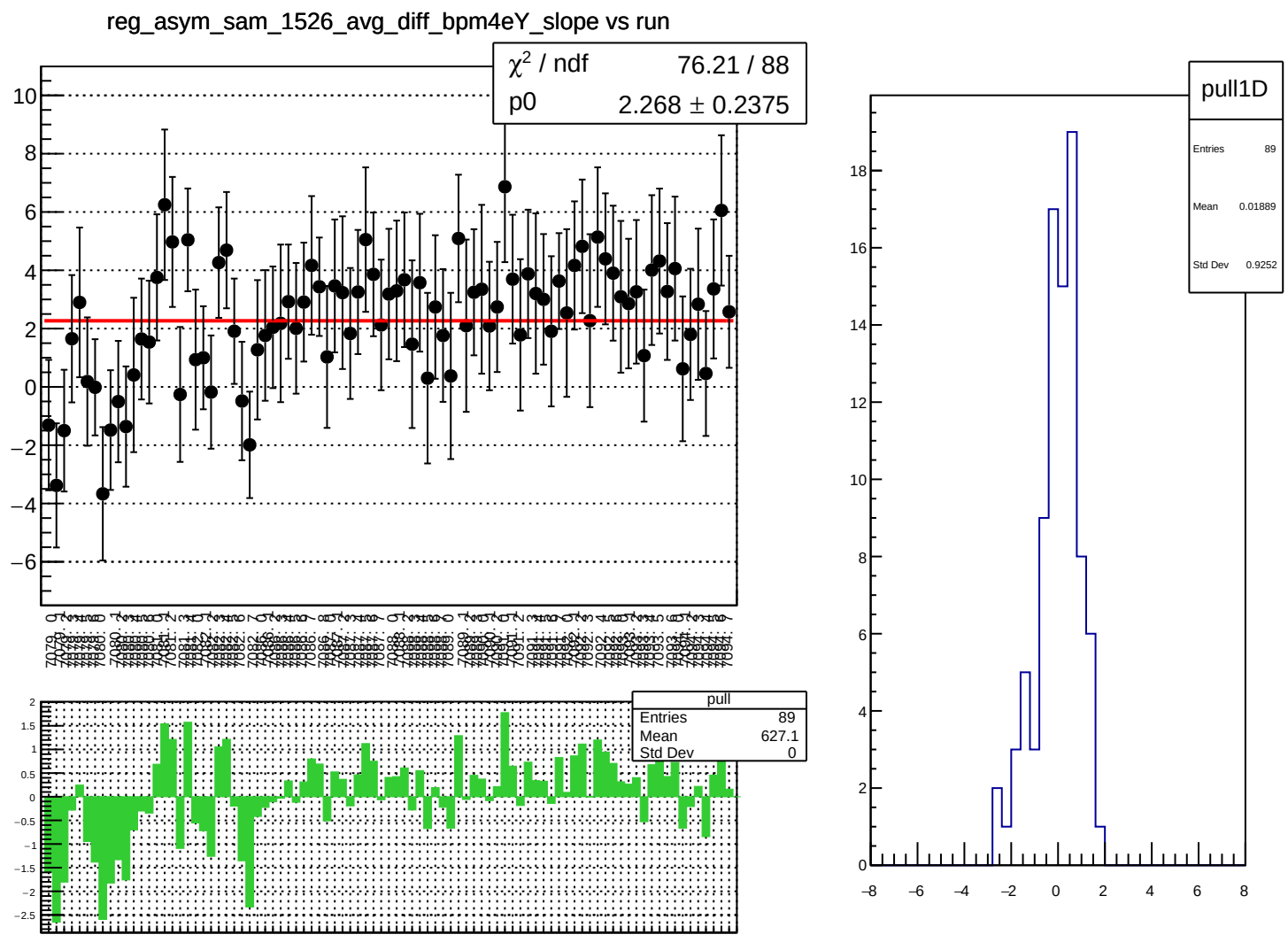

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 128.2 / 88
p0 63.71 ± 0.7656
pull
Entries 89
Mean 354.4
Std Dev 0
pull1D
Entries 89
Mean 0.03575
Std Dev 1.199

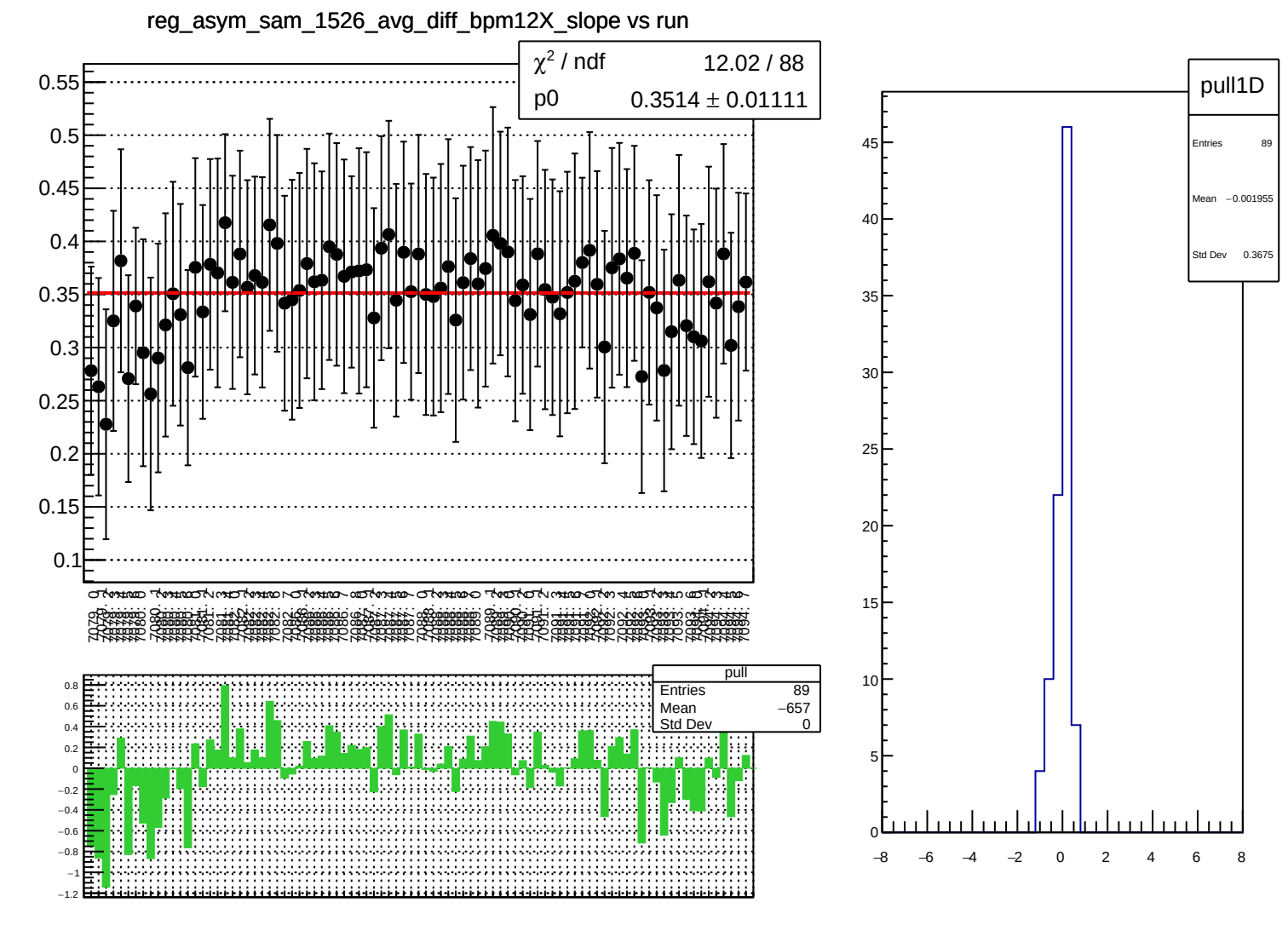

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 13.6 / 88
p0 −0.05946 ± 0.03571
pull
Entries 89
Mean 133.3
Std Dev 0
pull1D
Entries 89
Mean 0.002953
Std Dev 0.3909

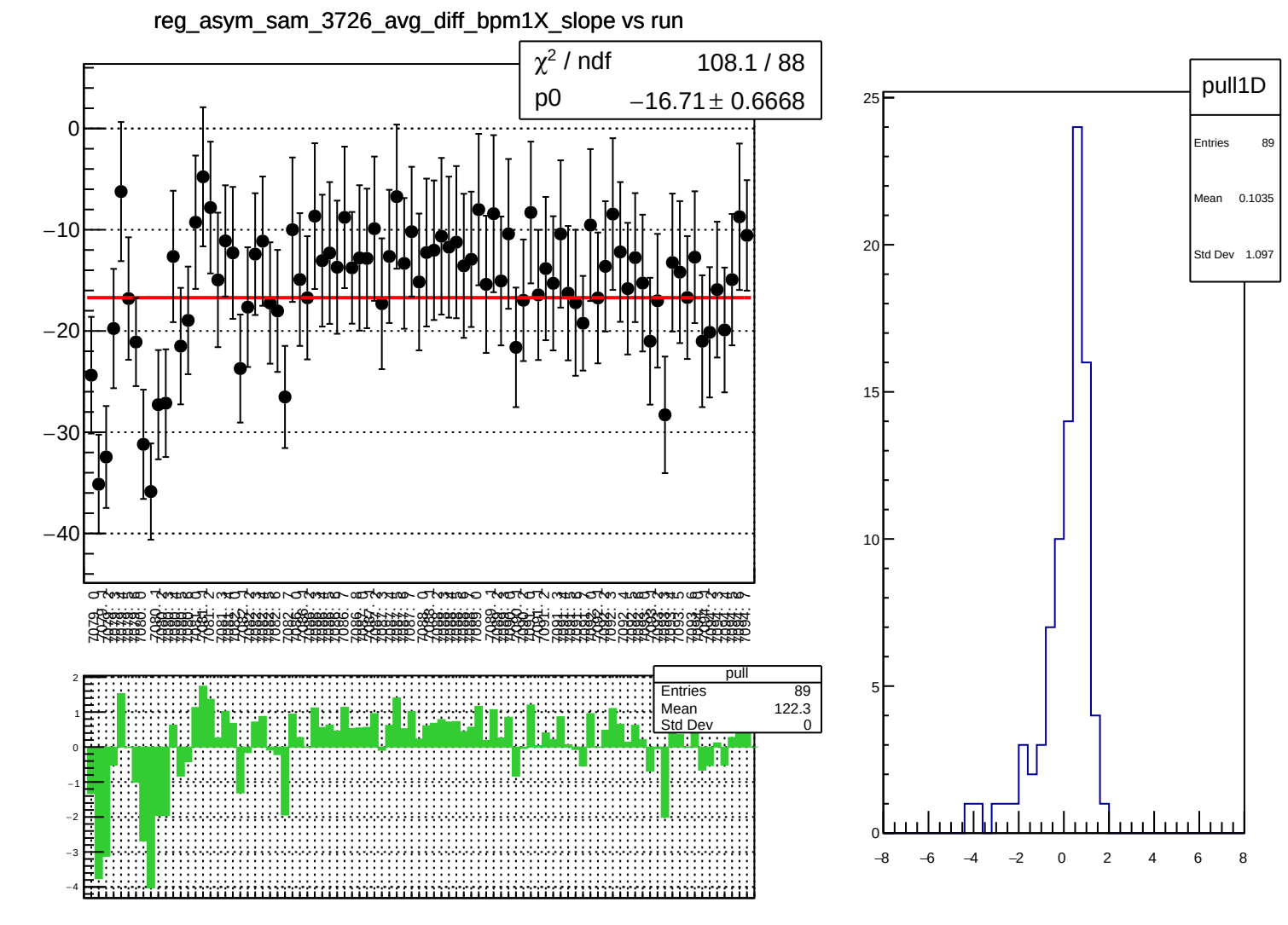

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 198.6 / 88
p0 −10.54 ± 0.3178
pull
Entries 89
Mean 129.8
Std Dev 0
pull1D
Entries 89
Mean 0.1473
Std Dev 1.487

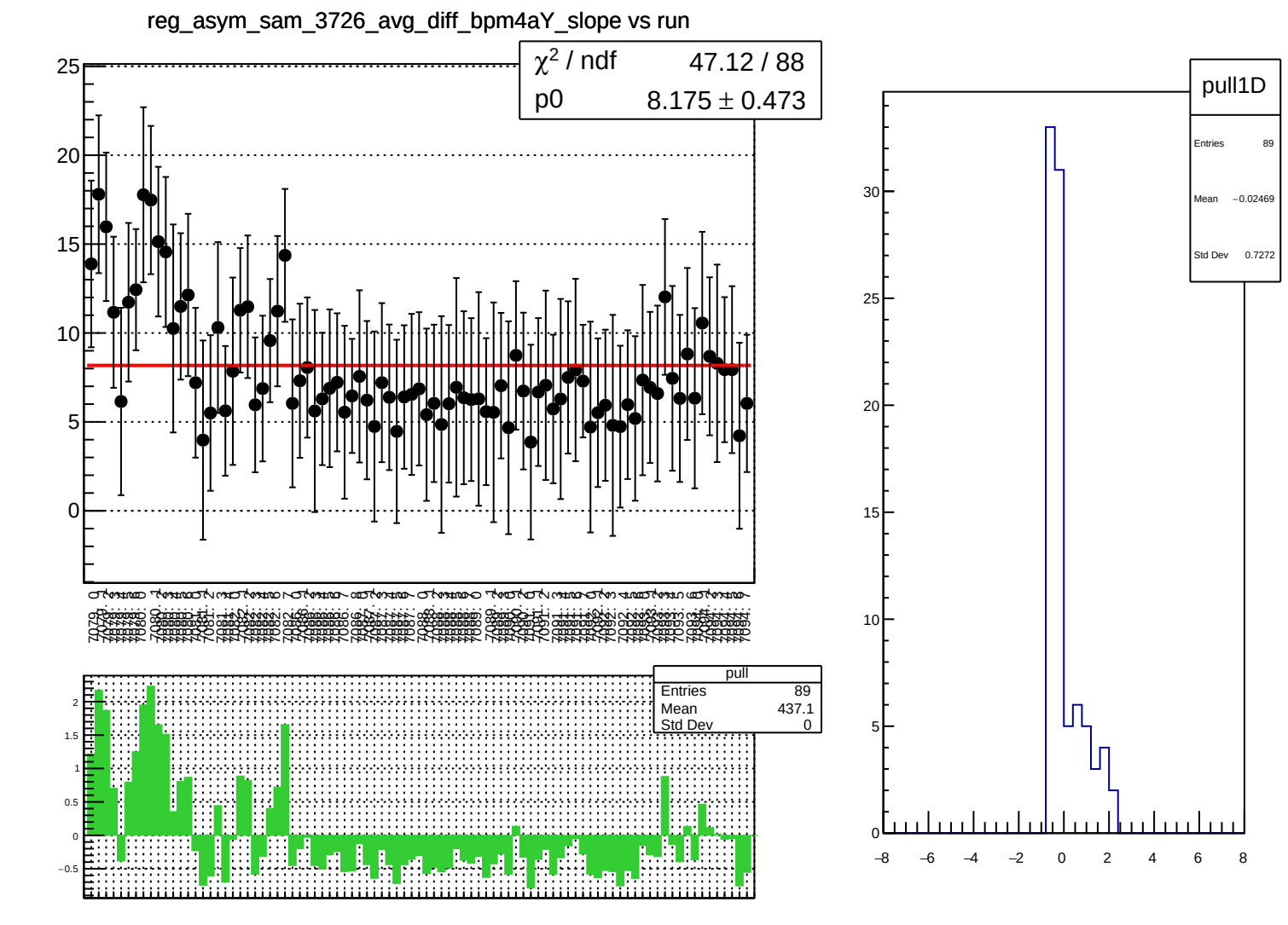

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.18 / 88
p0 5.188 ± 0.2259
pull
Entries 89
Mean 489.5
Std Dev 0
pull1D
Entries 89
Mean −0.02733
Std Dev 0.9836

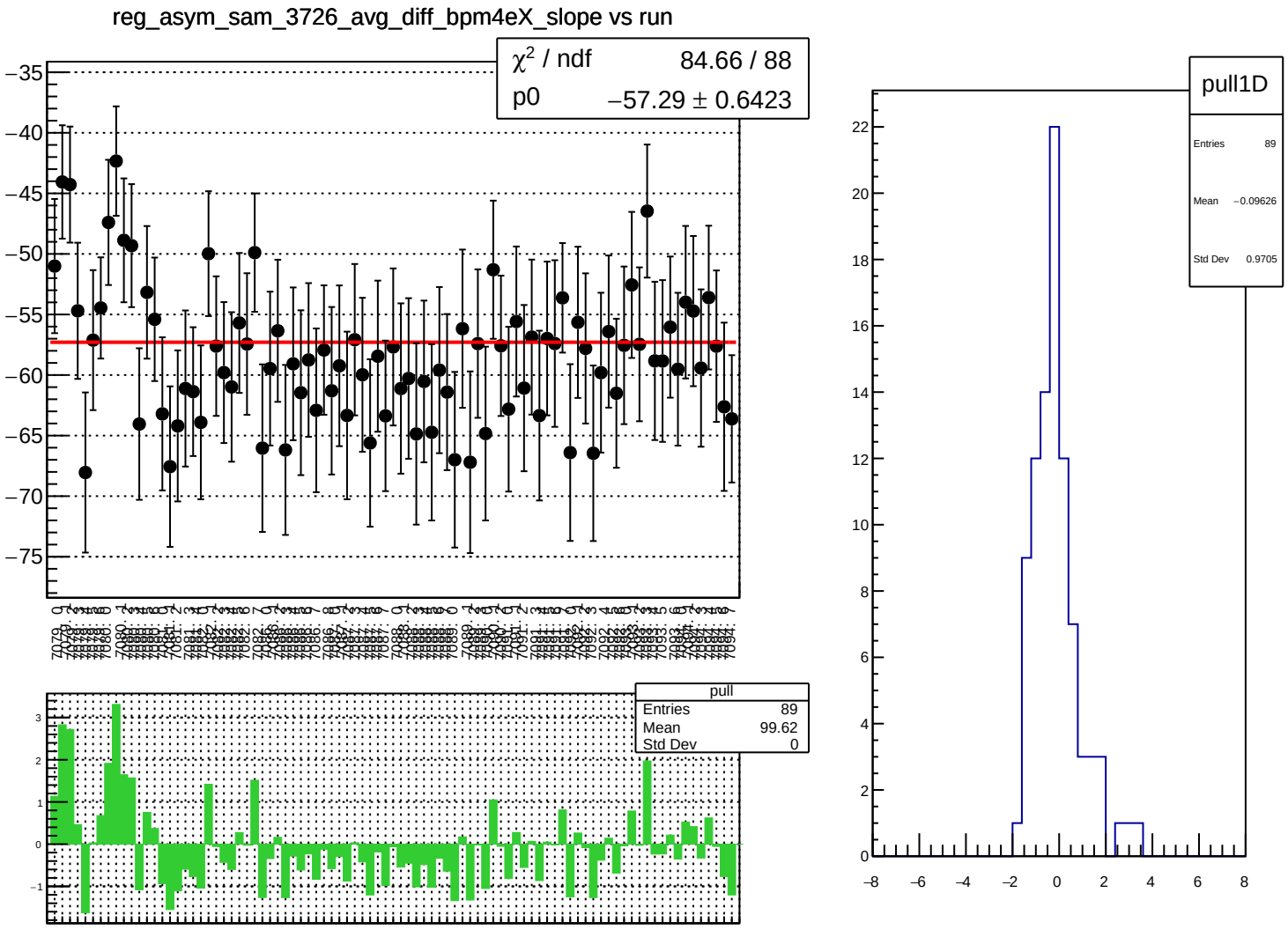

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 175 / 88
p0 −23.95 ± 0.3061
pull
Entries 89
Mean 115.9
Std Dev 0
pull1D
Entries 89
Mean −0.1469
Std Dev 1.395

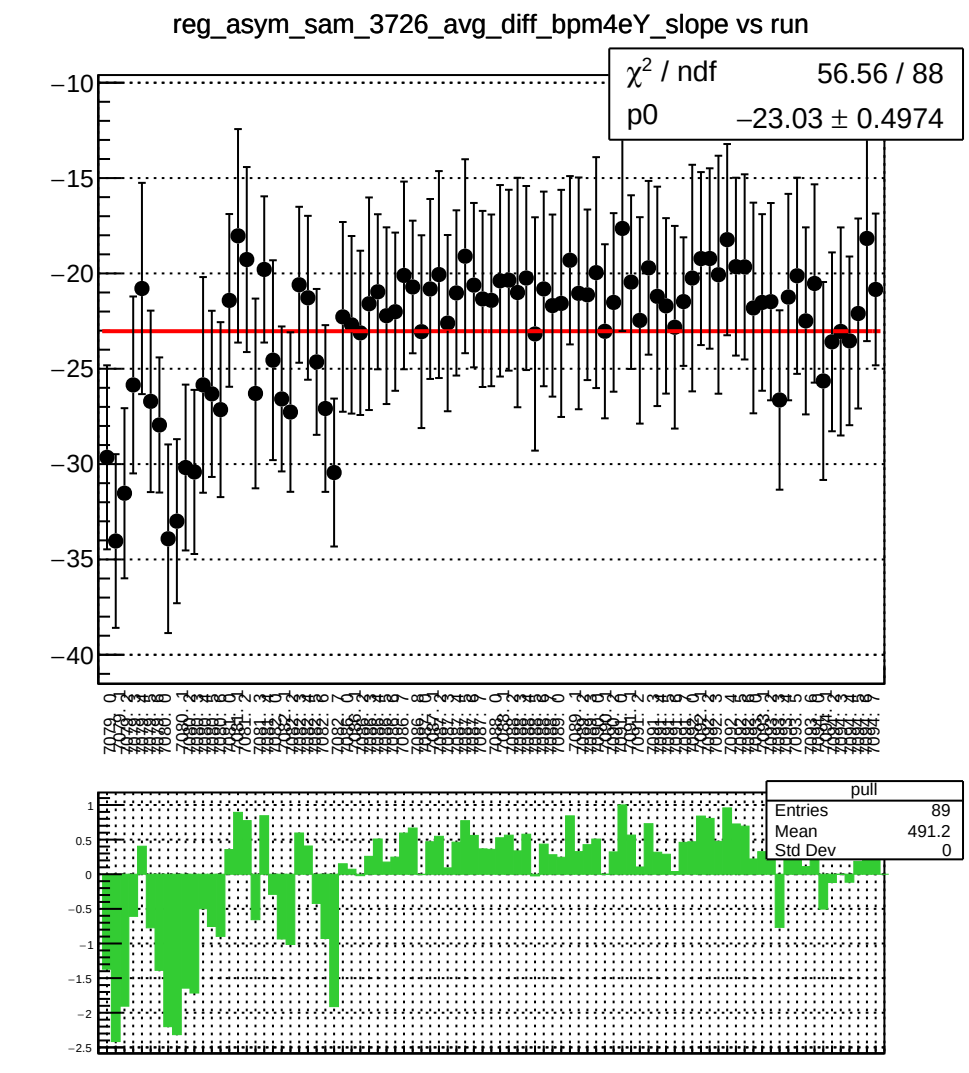

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.21 / 88
p0 2.268 ± 0.2375
pull
Entries 89
Mean 627.1
Std Dev 0
pull1D
Entries 89
Mean 0.01889
Std Dev 0.9252

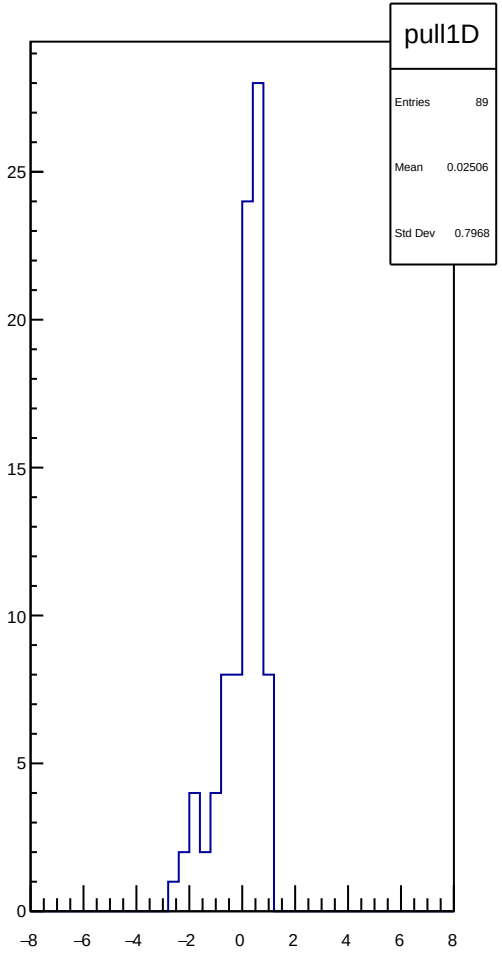

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 12.02 / 88
p0 0.3514 ± 0.01111
pull
Entries 89
Mean −657
Std Dev 0
pull1D
Entries 89
Mean −0.001955
Std Dev 0.3675

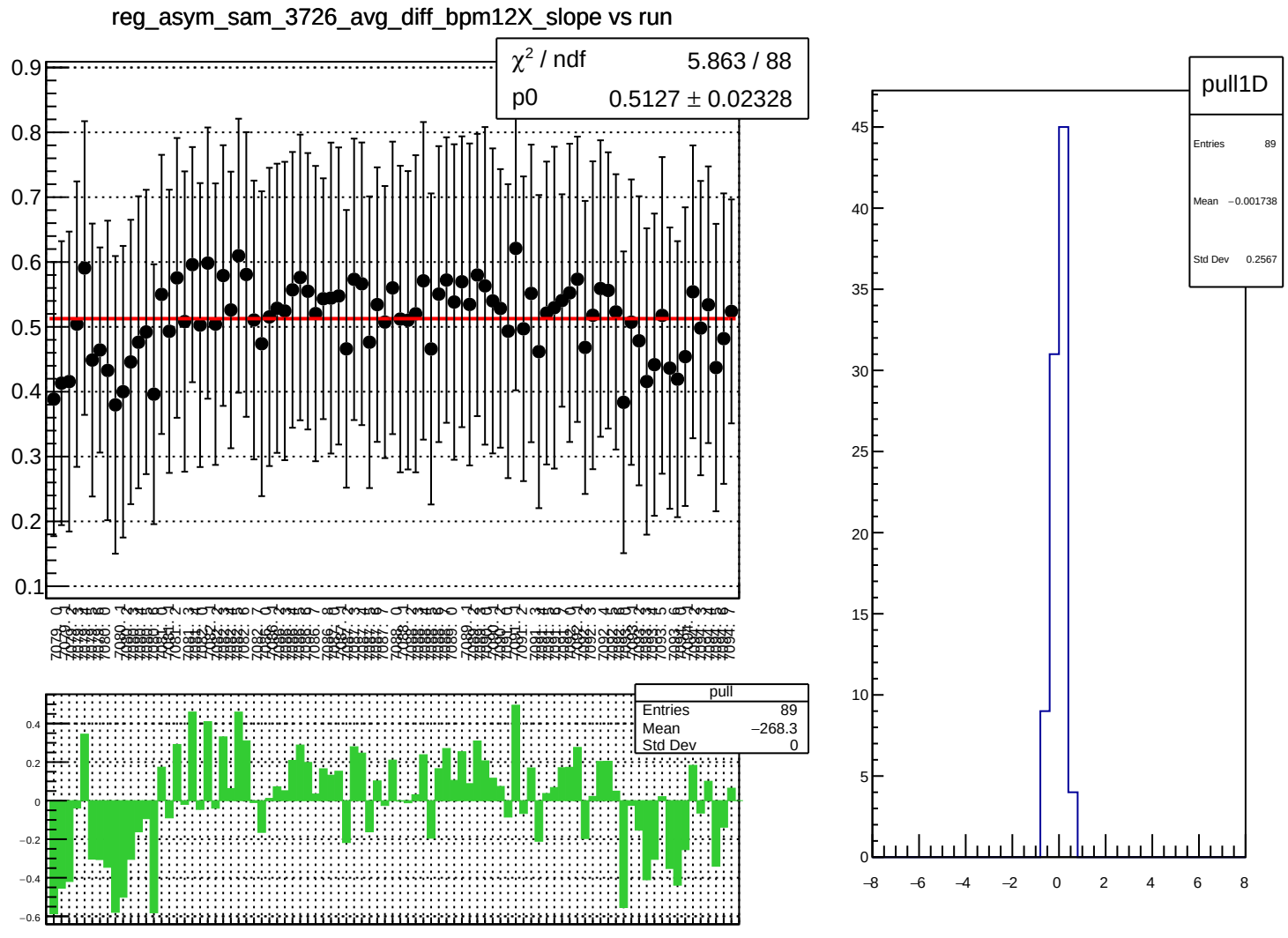

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 108.1 / 88
p0 −16.71 ± 0.6668
pull
Entries 89
Mean 122.3
Std Dev 0
pull1D
Entries 89
Mean 0.1035
Std Dev 1.097

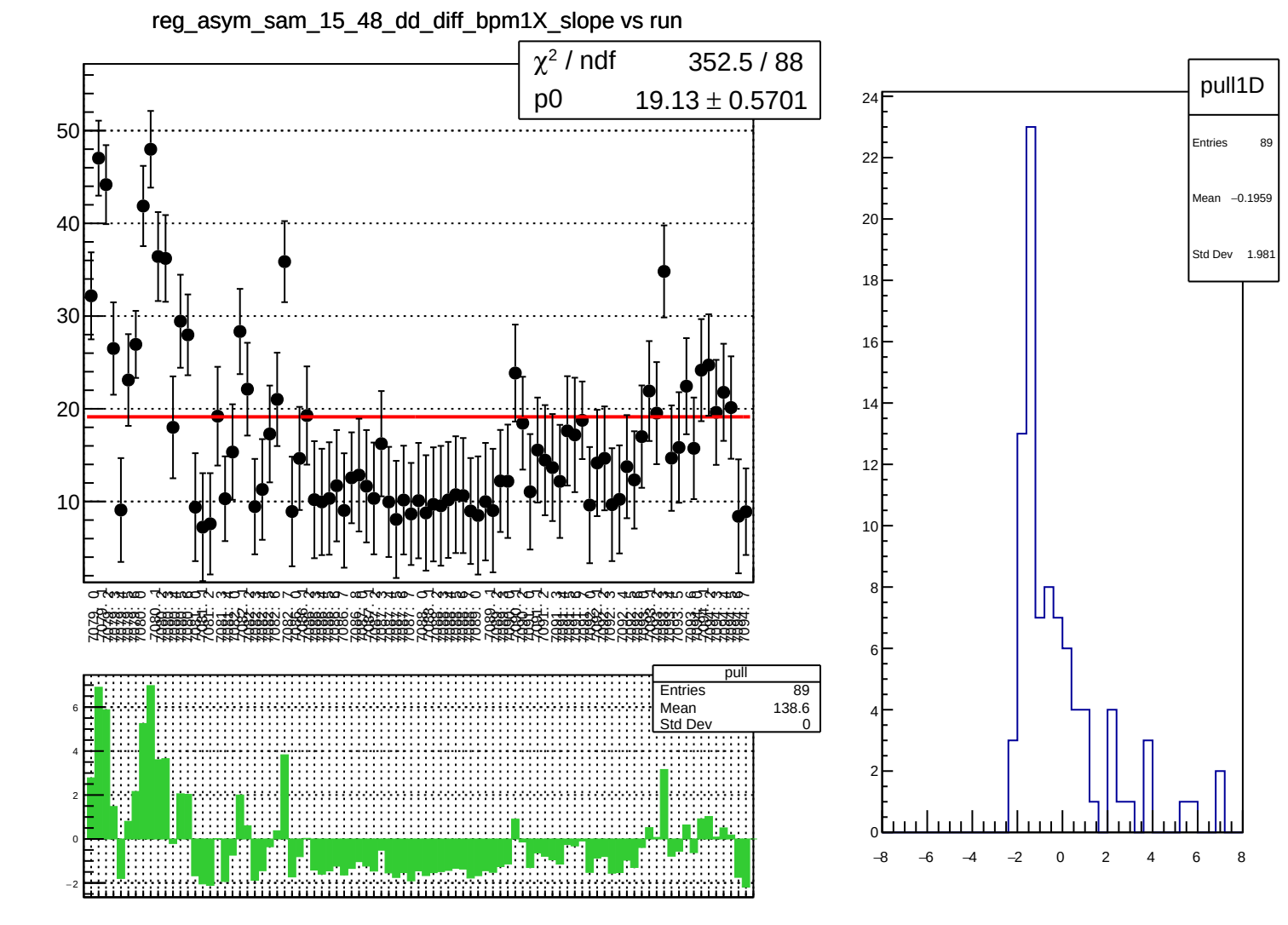

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.12 / 88
p0 8.175 ± 0.473
pull
Entries 89
Mean 437.1
Std Dev 0
pull1D
Entries 89
Mean −0.02469
Std Dev 0.7272

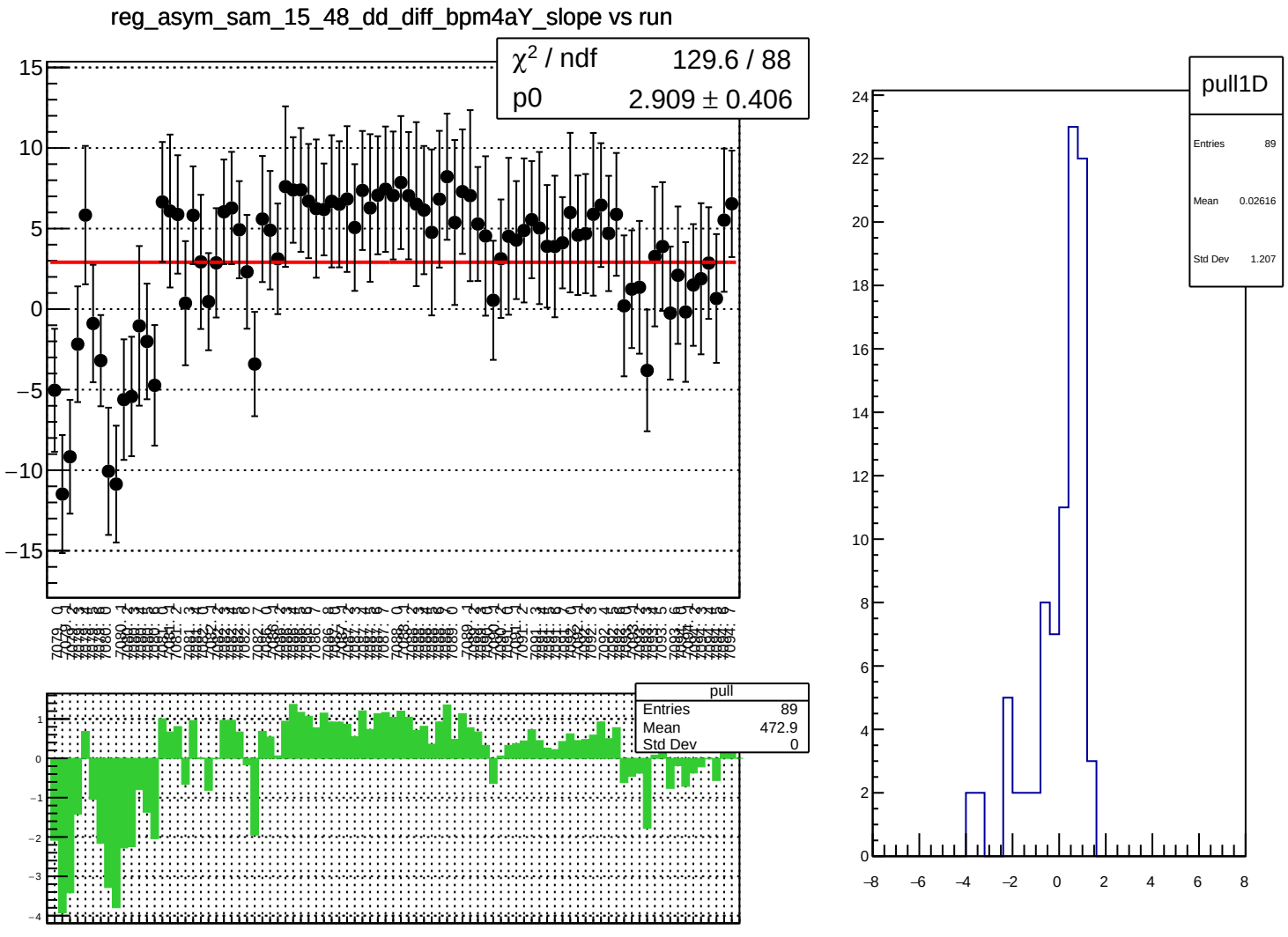

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.66 / 88
p0 −57.29 ± 0.6423
pull
Entries 89
Mean 99.62
Std Dev 0
pull1D
Entries 89
Mean −0.09626
Std Dev 0.9705

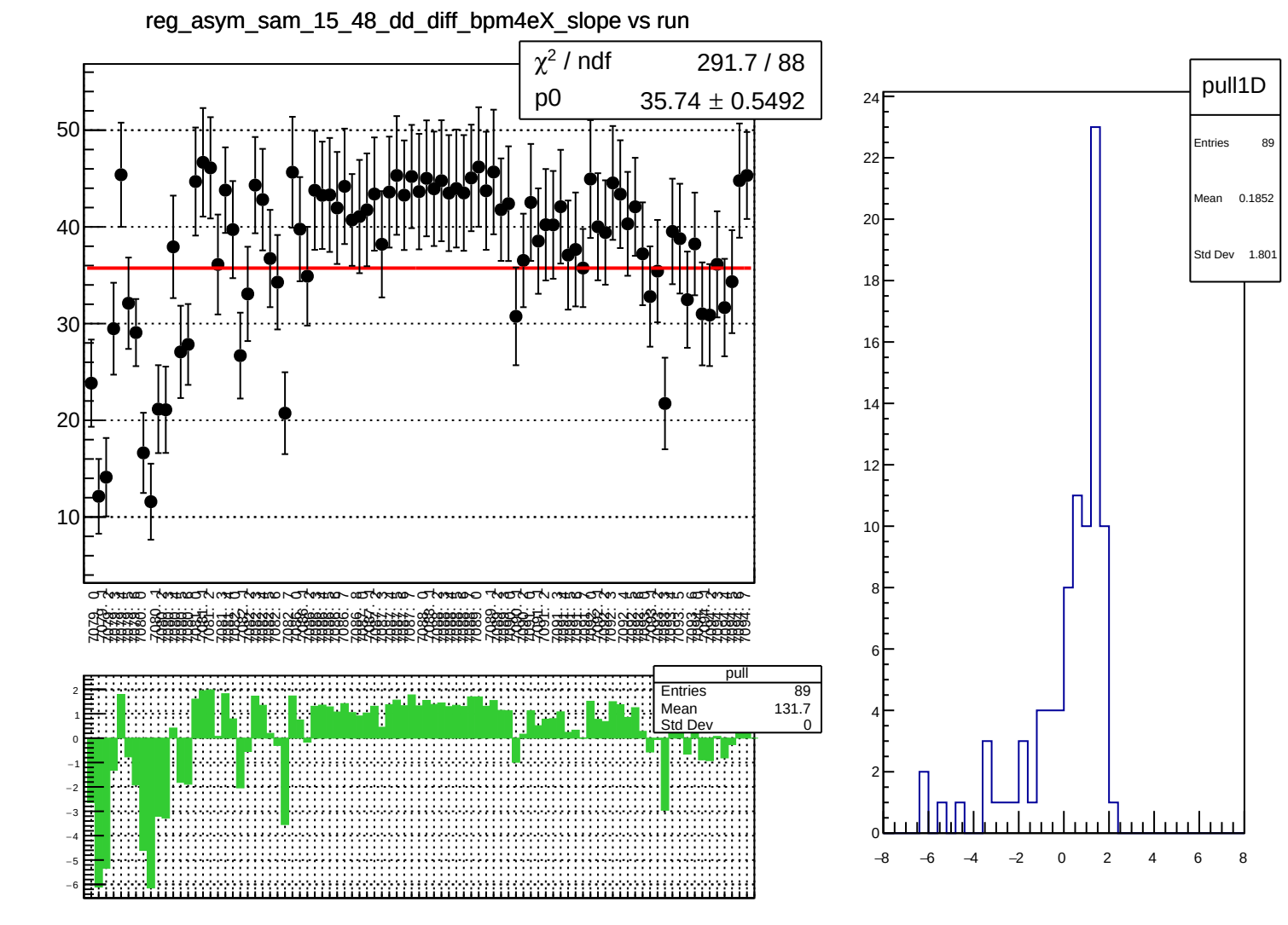

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.56 / 88
p0 −23.03 ± 0.4974
pull
Entries 89
Mean 491.2
Std Dev 0

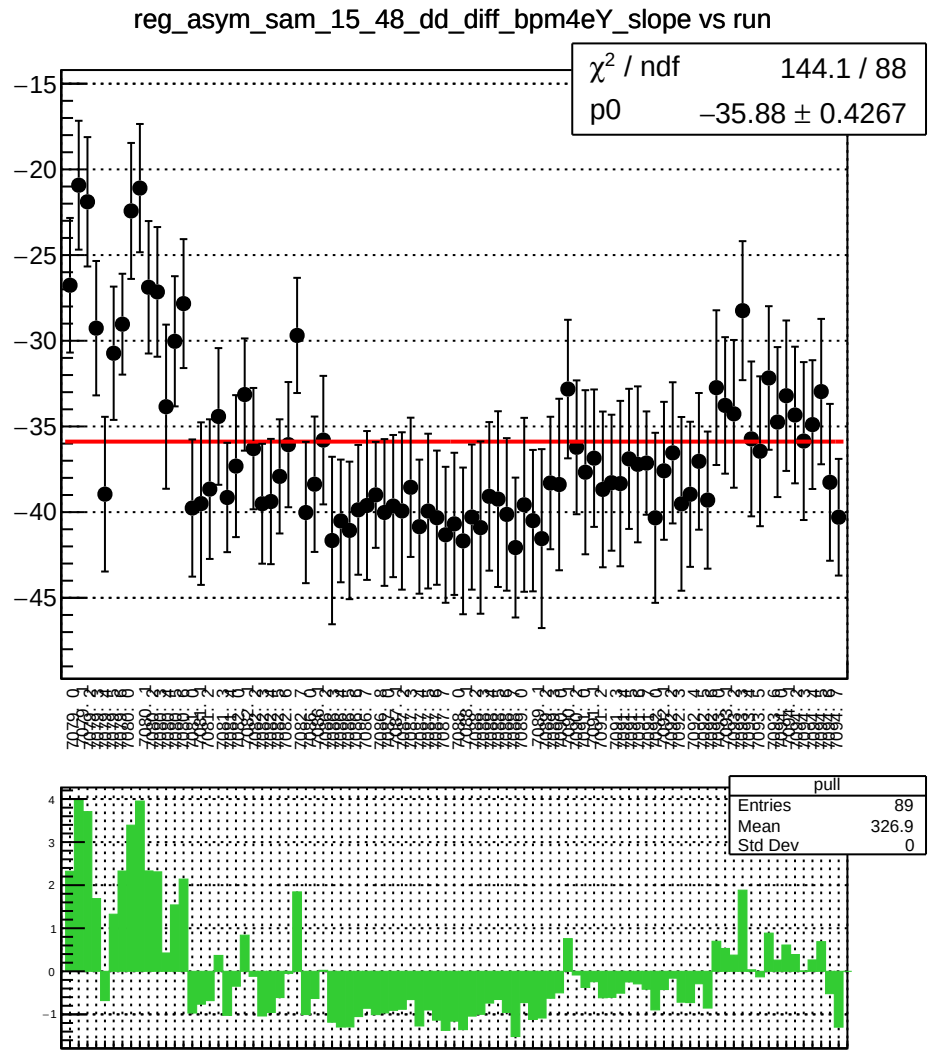

pull1D
Entries 89
Mean 0.02506
Std Dev 0.7968

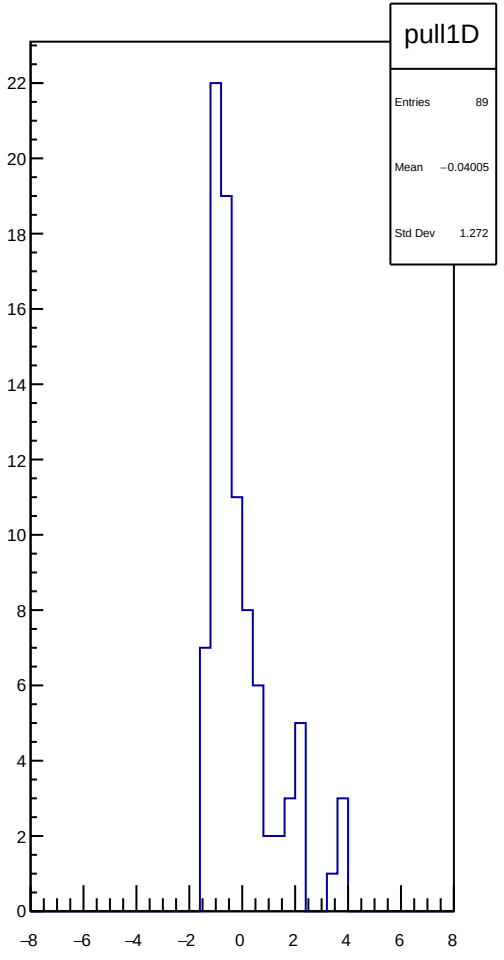

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 5.863 / 88
p0 0.5127 ± 0.02328
pull
Entries 89
Mean −268.3
Std Dev 0
pull1D
Entries 89
Mean −0.001738
Std Dev 0.2567

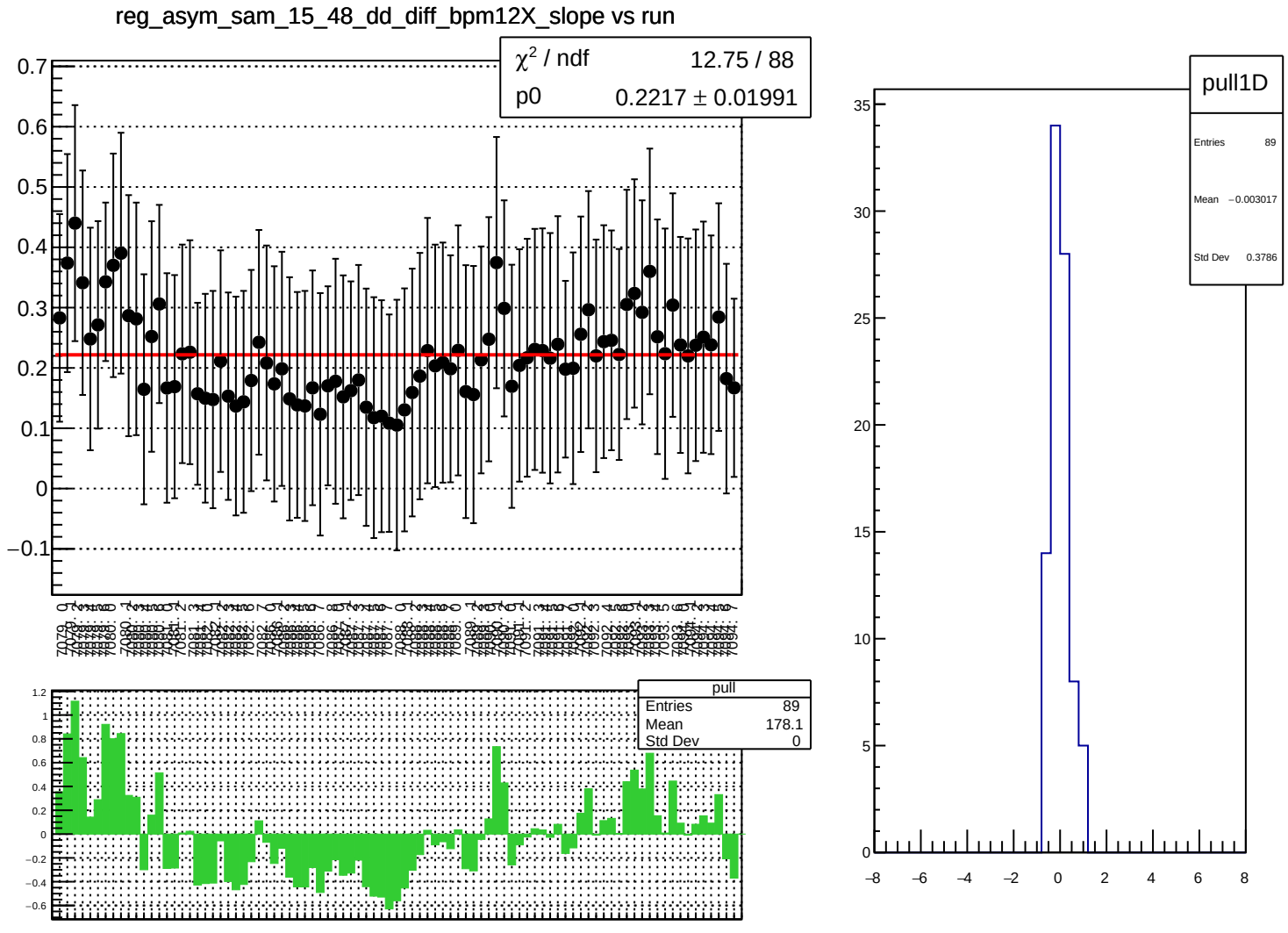

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 352.5 / 88
p0 19.13 ± 0.5701
pull
Entries 89
Mean 138.6
Std Dev 0
pull1D
Entries 89
Mean −0.1959
Std Dev 1.981

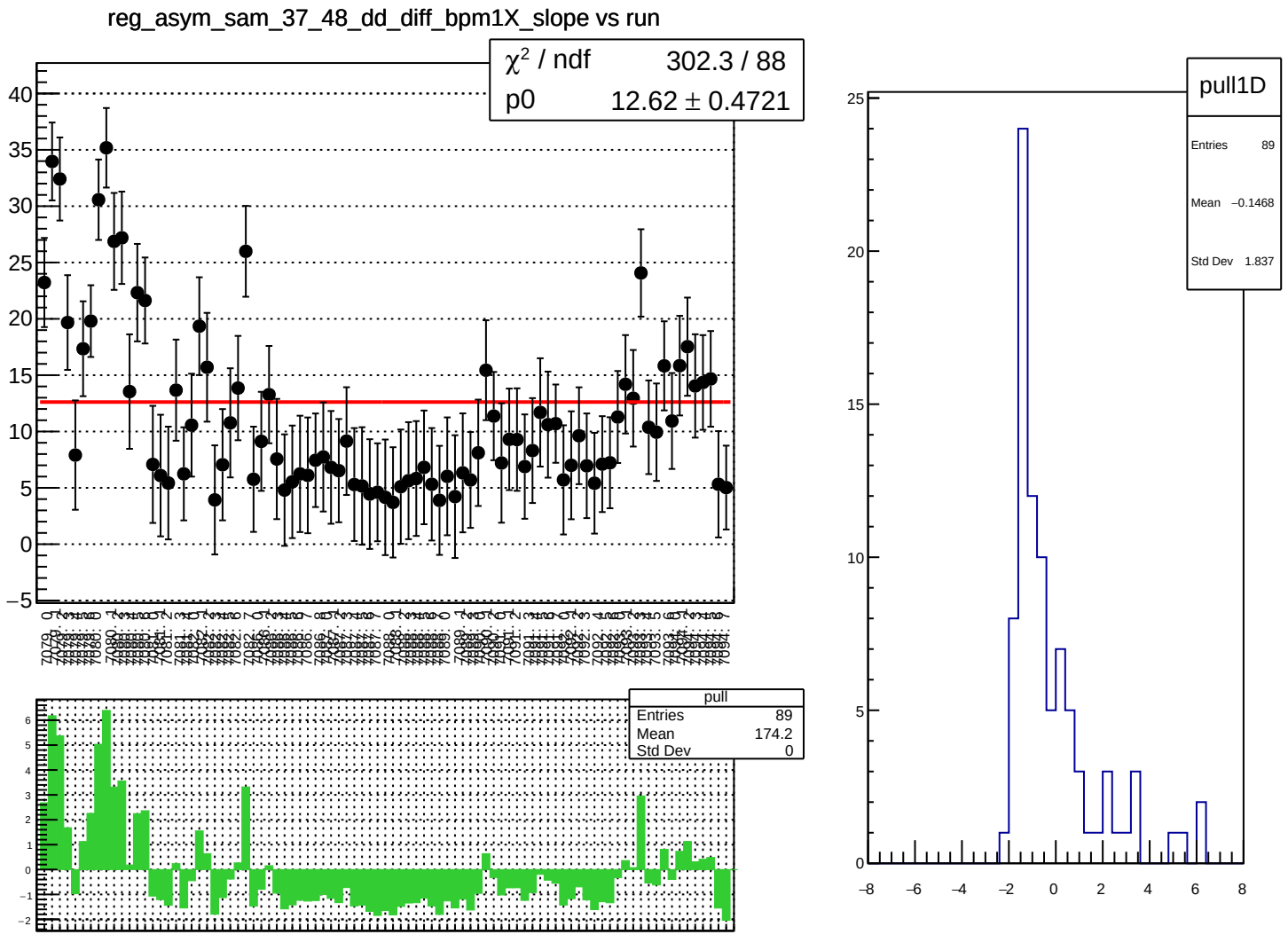

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 129.6 / 88
p0 2.909 ± 0.406
pull
Entries 89
Mean 472.9
Std Dev 0
pull1D
Entries 89
Mean 0.02616
Std Dev 1.207

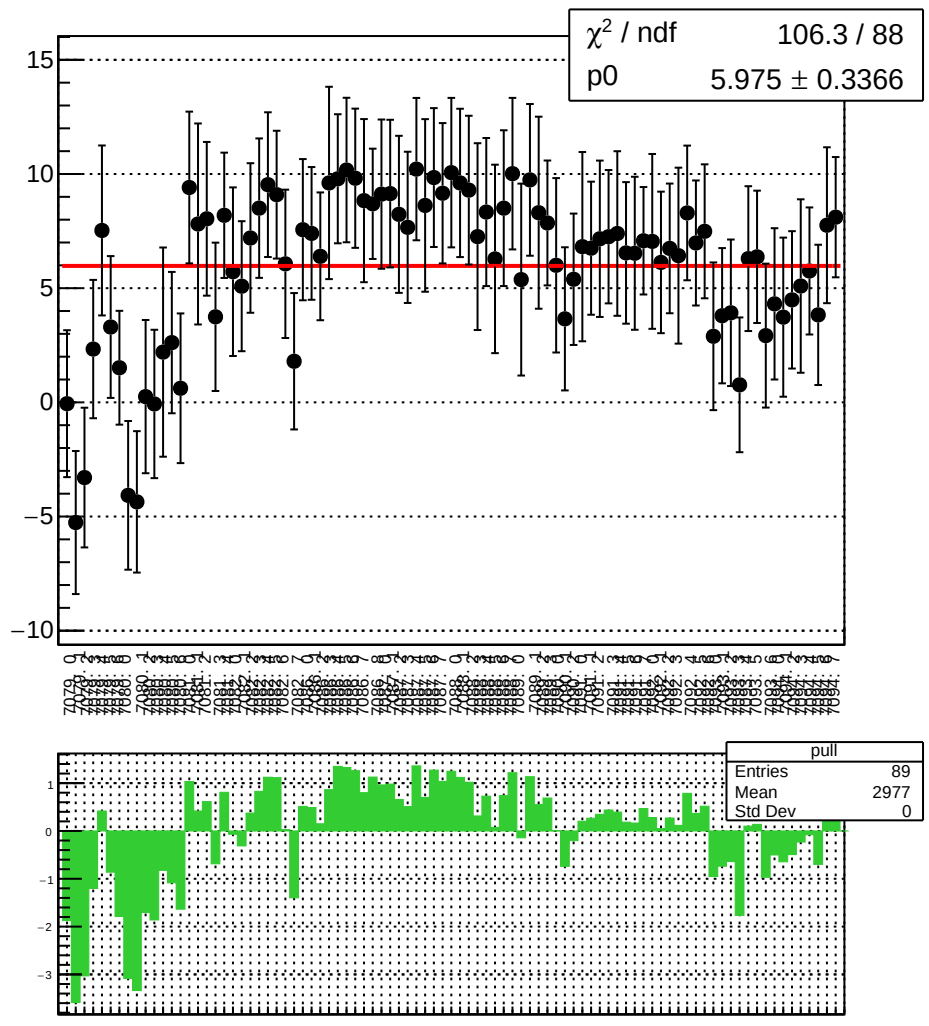

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 291.7 / 88
p0 35.74 ± 0.5492
pull
Entries 89
Mean 131.7
Std Dev 0
pull1D
Entries 89
Mean 0.1852
Std Dev 1.801

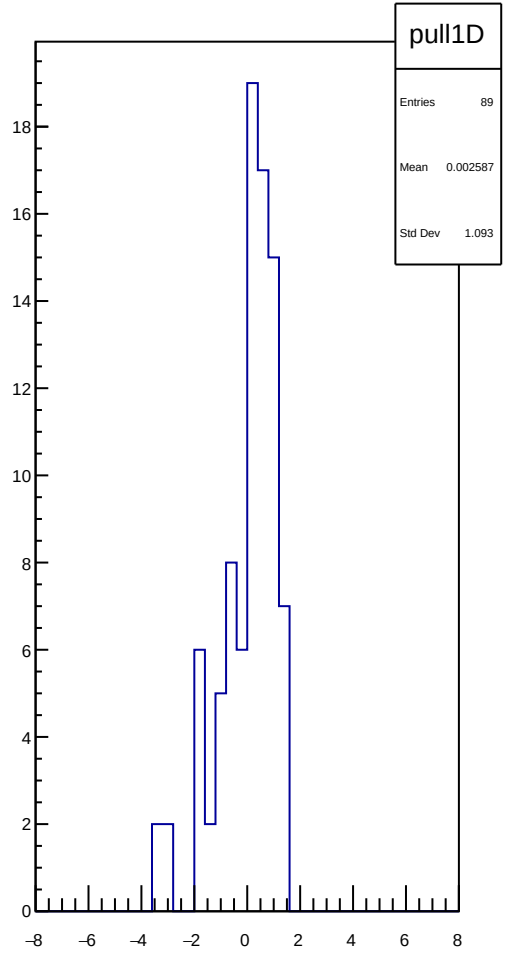

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 144.1 / 88
p0 −35.88 ± 0.4267
pull
Entries 89
Mean 326.9
Std Dev 0

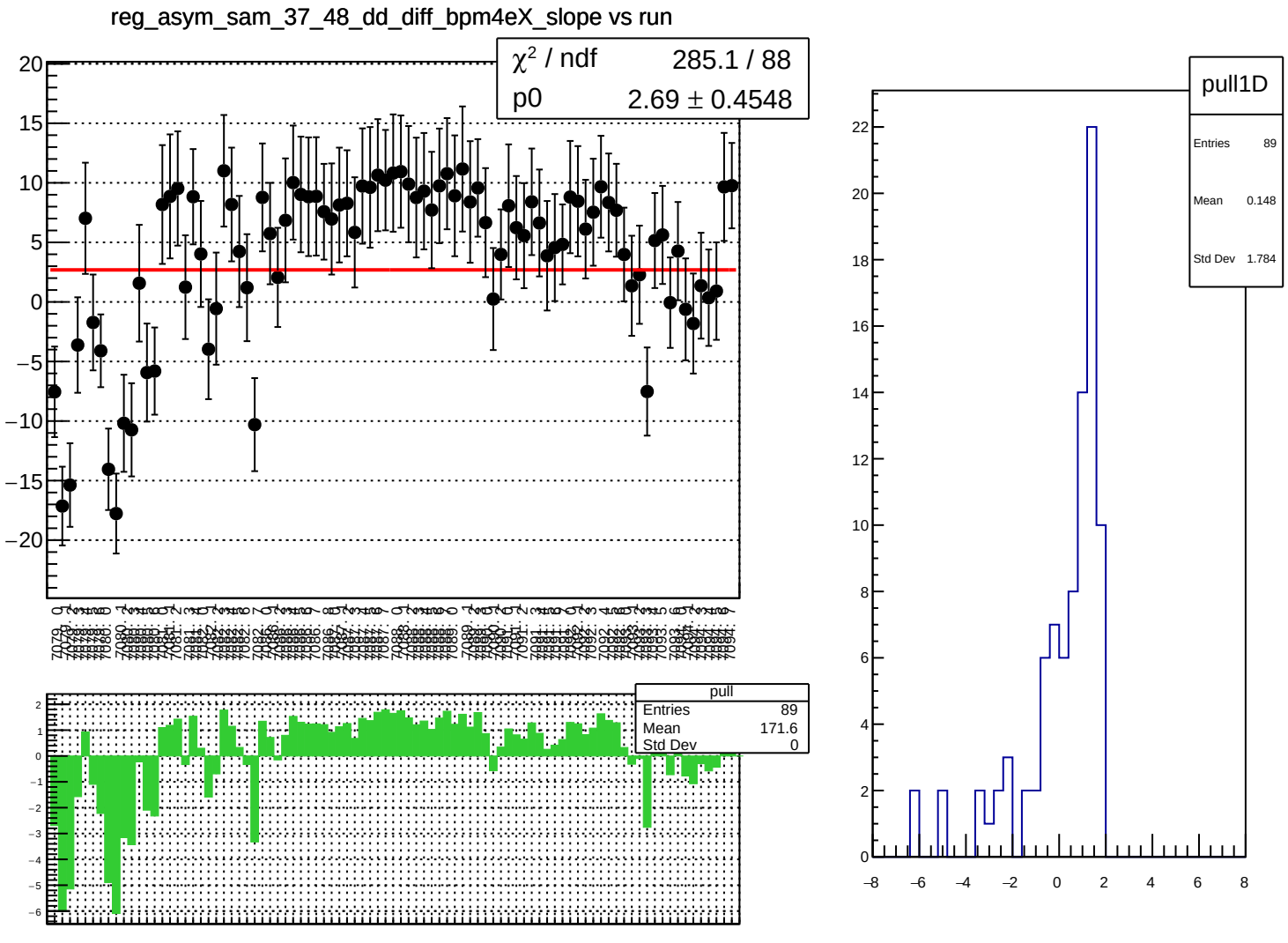

pull1D
Entries 89
Mean −0.04005
Std Dev 1.272

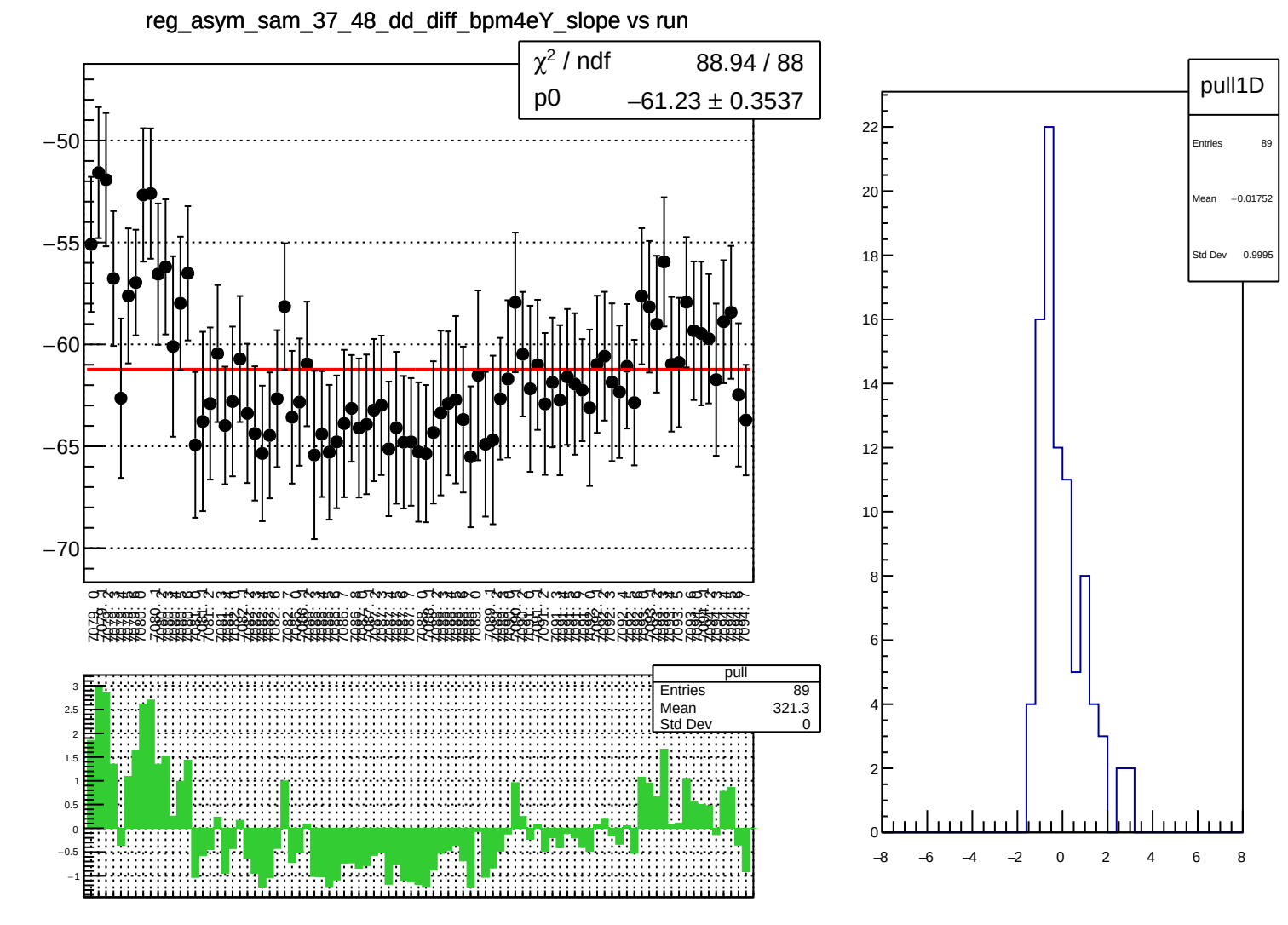

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 12.75 / 88
p0 0.2217 ± 0.01991
pull
Entries 89
Mean 178.1
Std Dev 0
pull1D
Entries 89
Mean −0.003017
Std Dev 0.3786

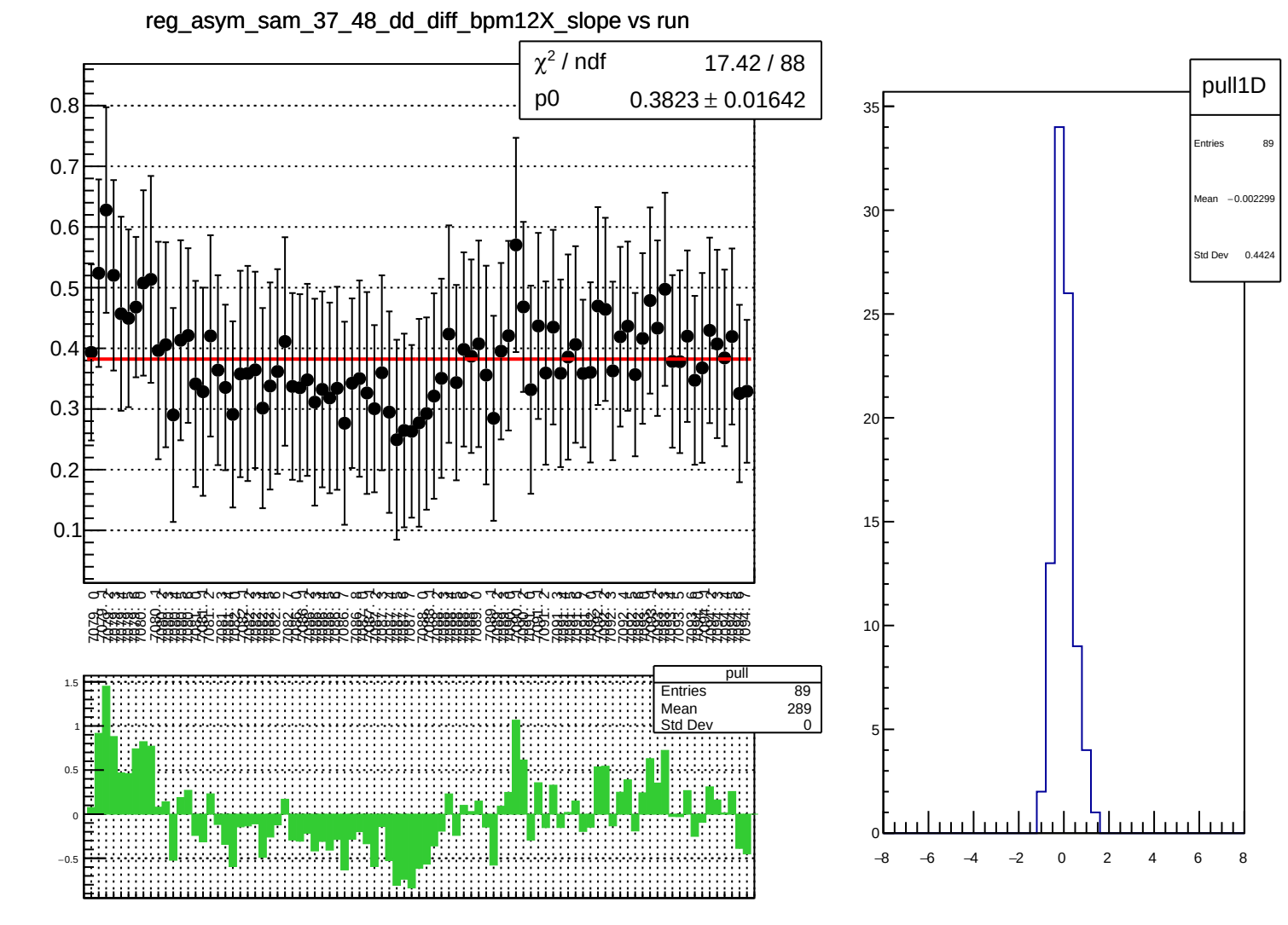

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 302.3 / 88
p0 12.62 ± 0.4721
pull
Entries 89
Mean 174.2
Std Dev 0
pull1D
Entries 89
Mean −0.1468
Std Dev 1.837

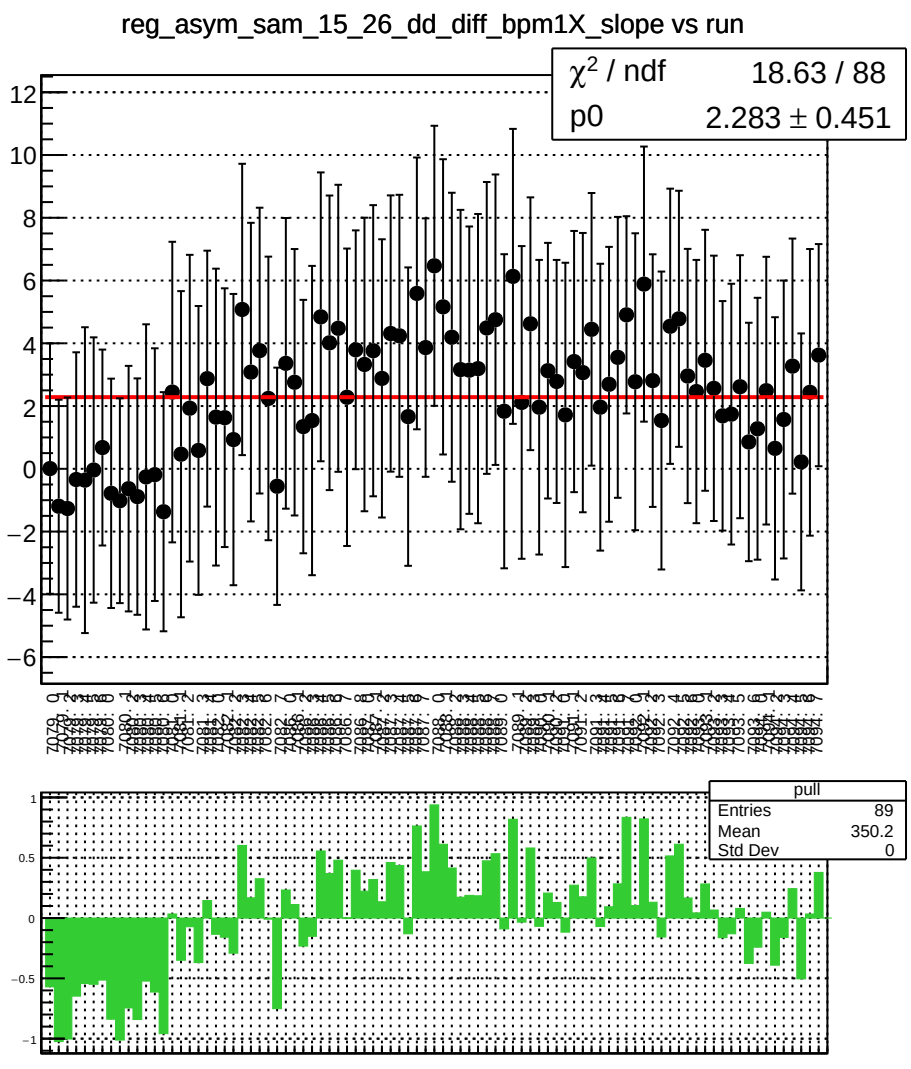

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 106.3 / 88
p0 5.975 ± 0.3366
pull
Entries 89
Mean 2977
Std Dev 0

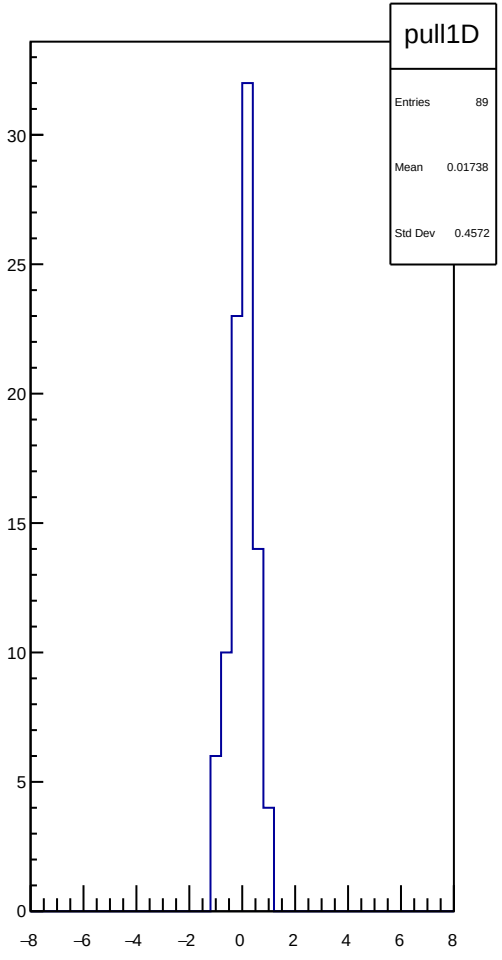

pull1D
Entries 89
Mean 0.002587
Std Dev 1.093

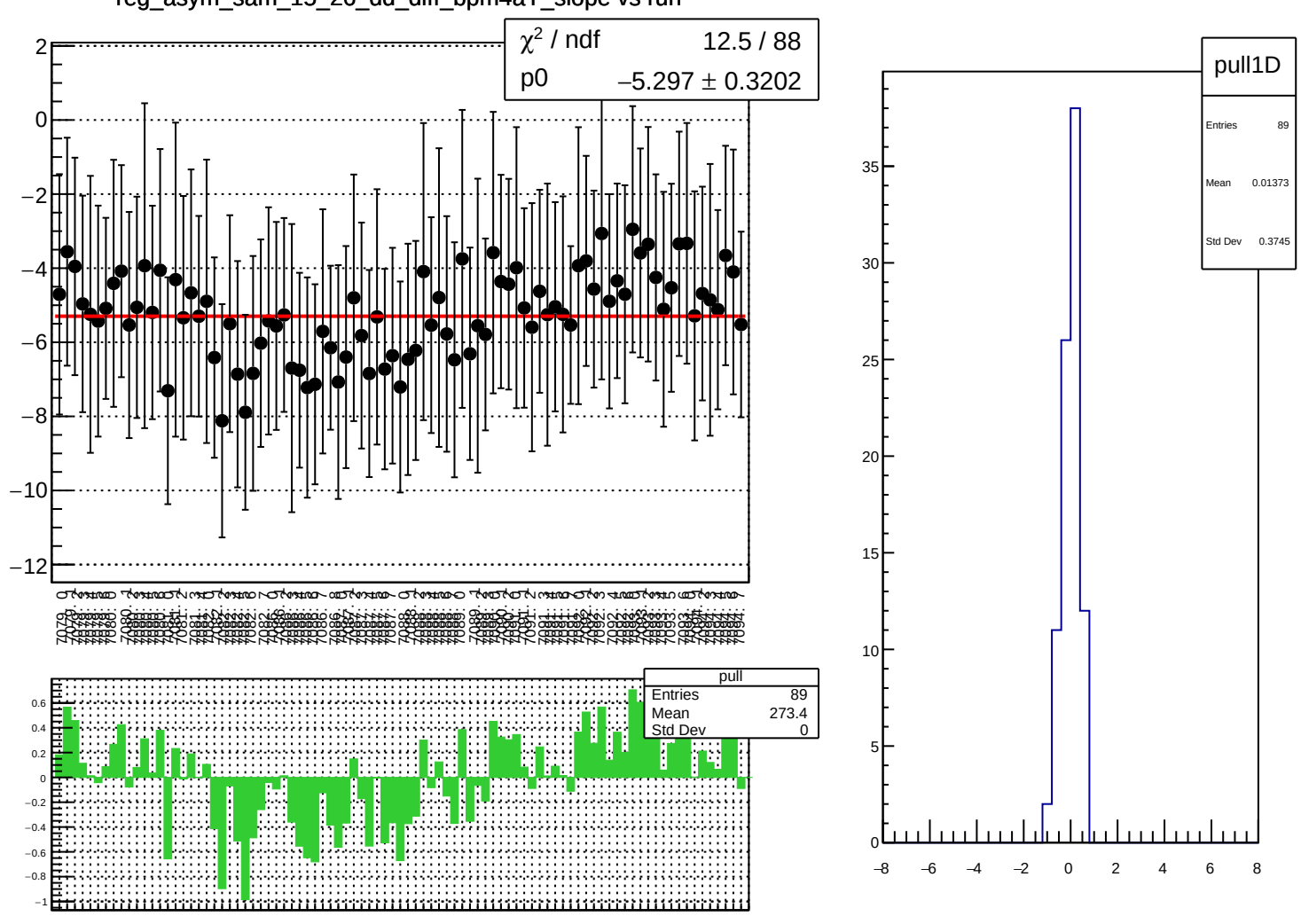

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 285.1 / 88
p0 2.69 ± 0.4548
pull
Entries 89
Mean 171.6
Std Dev 0
pull1D
Entries 89
Mean 0.148
Std Dev 1.784

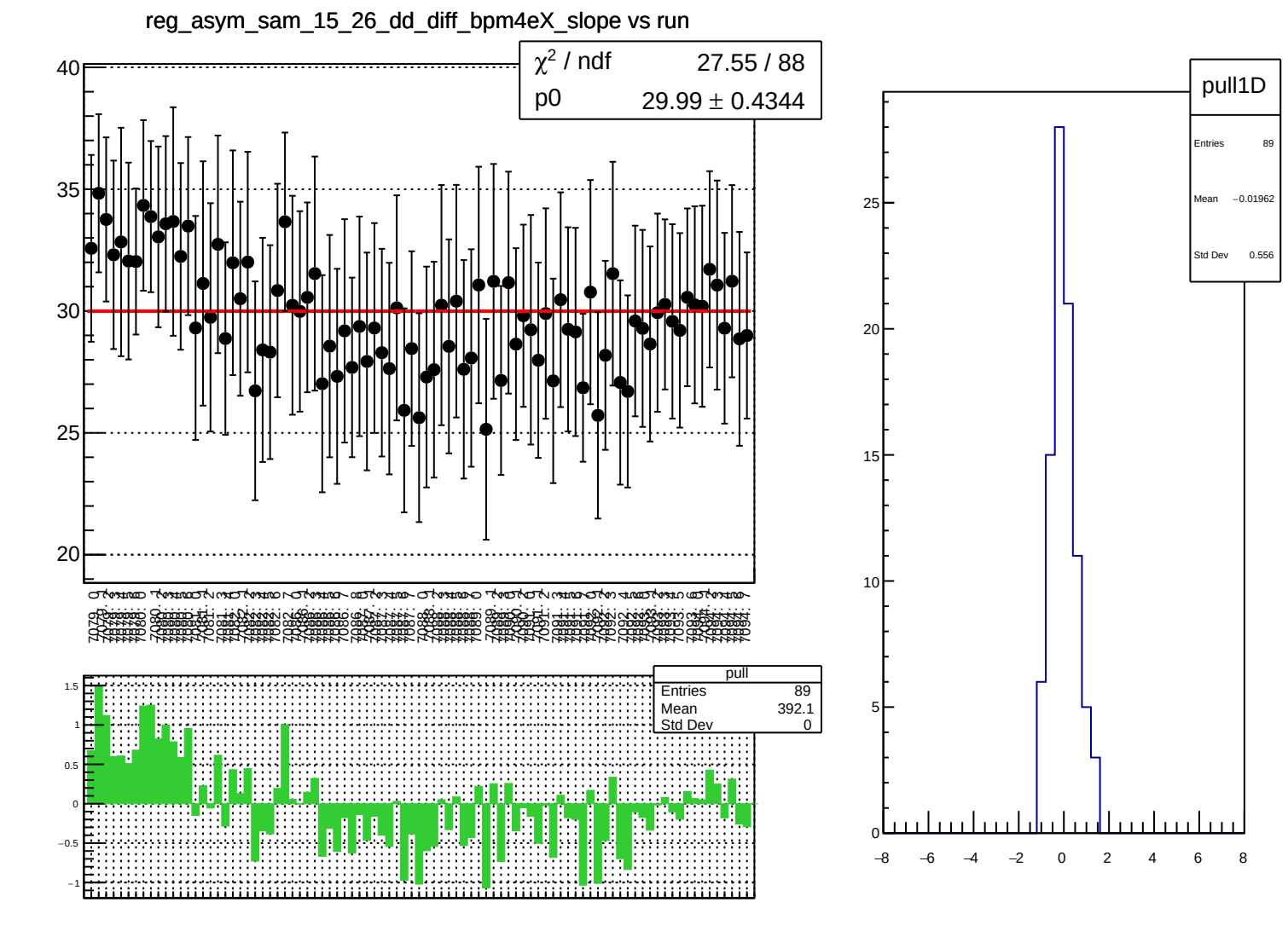

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.94 / 88
p0 −61.23 ± 0.3537
−50
−55
−60
−65
−70
pull
Entries 89
Mean 321.3
Std Dev 0
pull1D
Entries 89
Mean −0.01752
Std Dev 0.9995

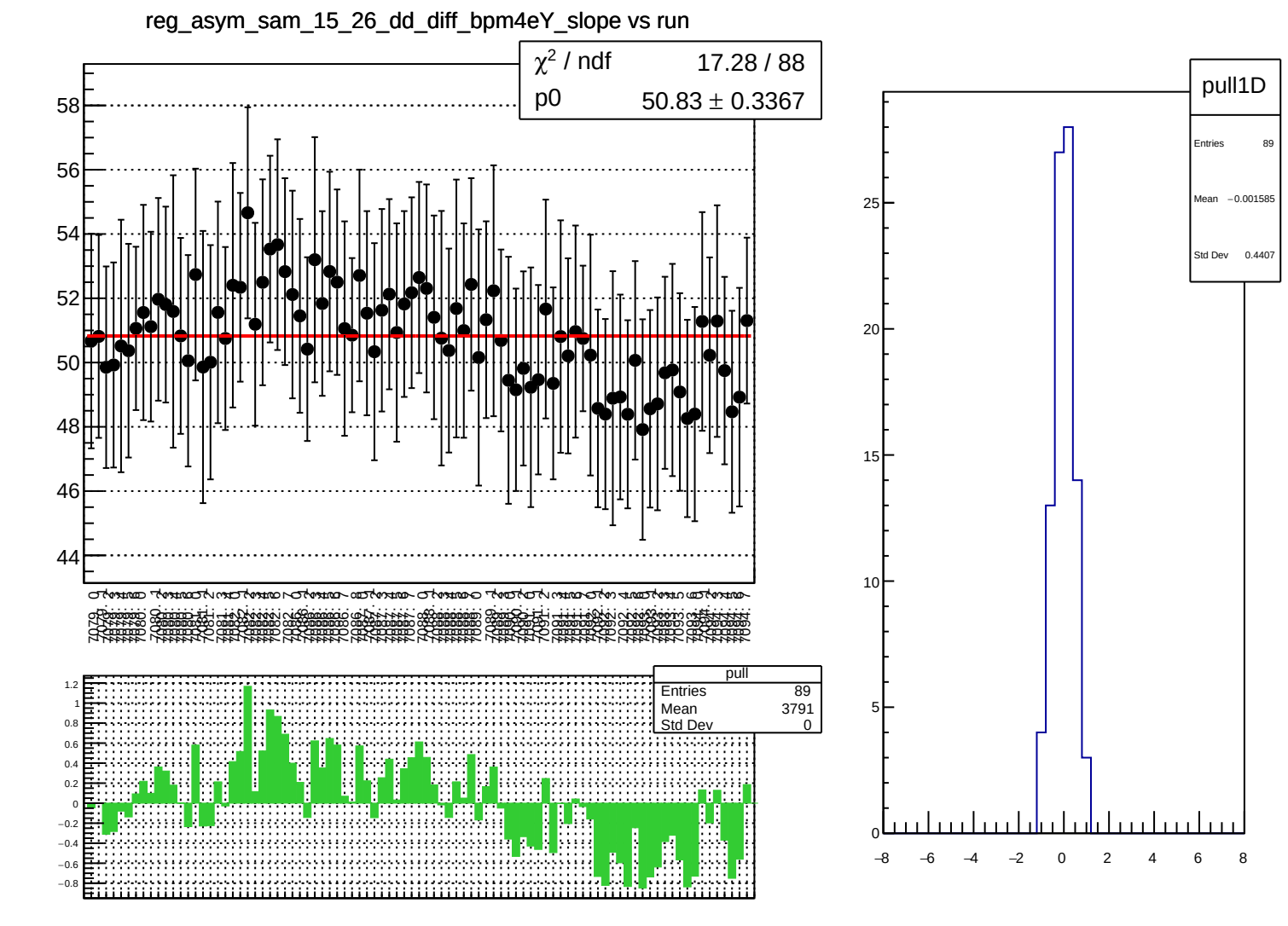

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 17.42 / 88
p0 0.3823 ± 0.01642
pull
Entries 89
Mean 289
Std Dev 0
pull1D
Entries 89
Mean −0.002299
Std Dev 0.4424

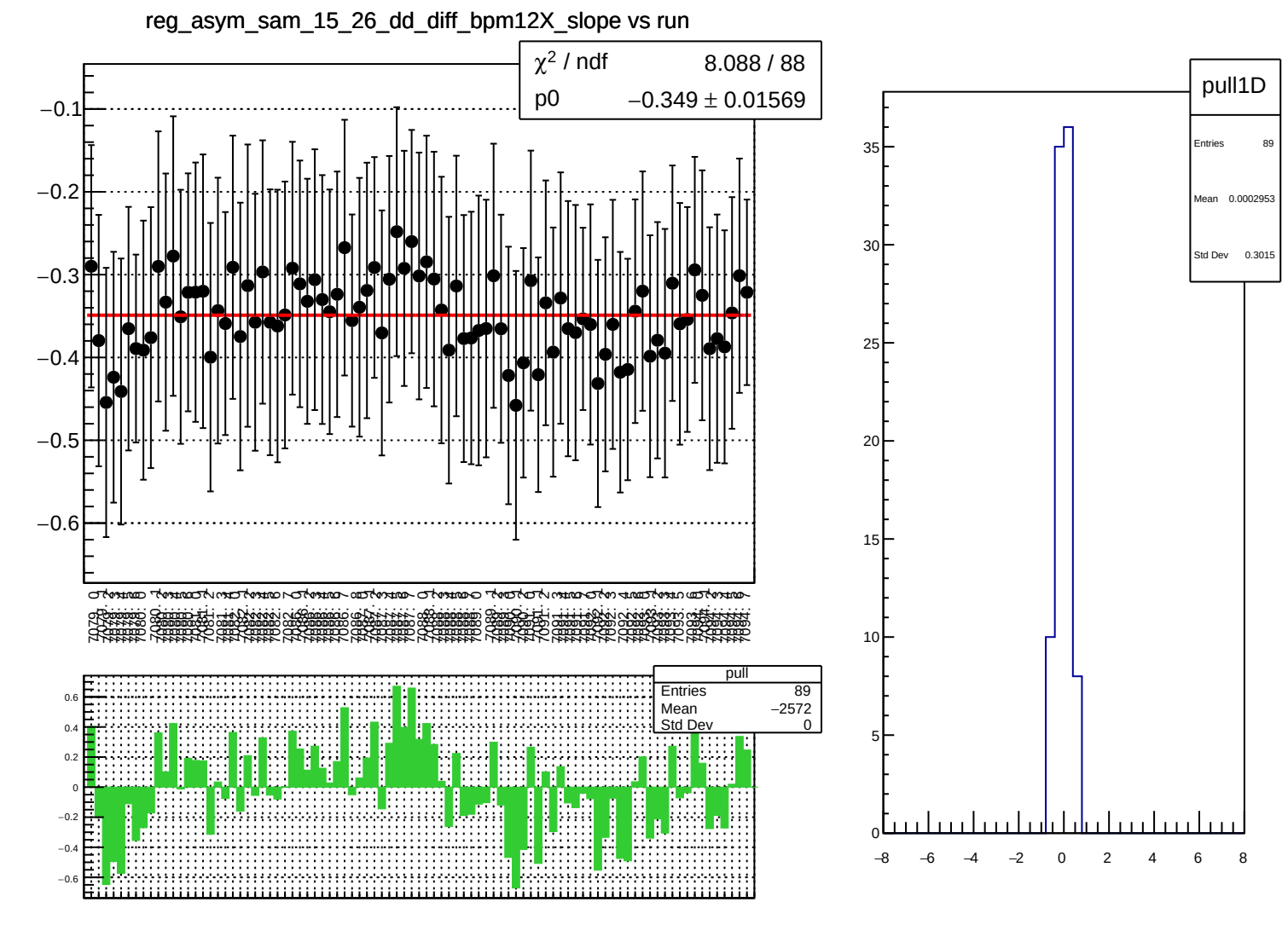

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 18.63 / 88
p0 2.283 ± 0.451
pull
Entries 89
Mean 350.2
Std Dev 0

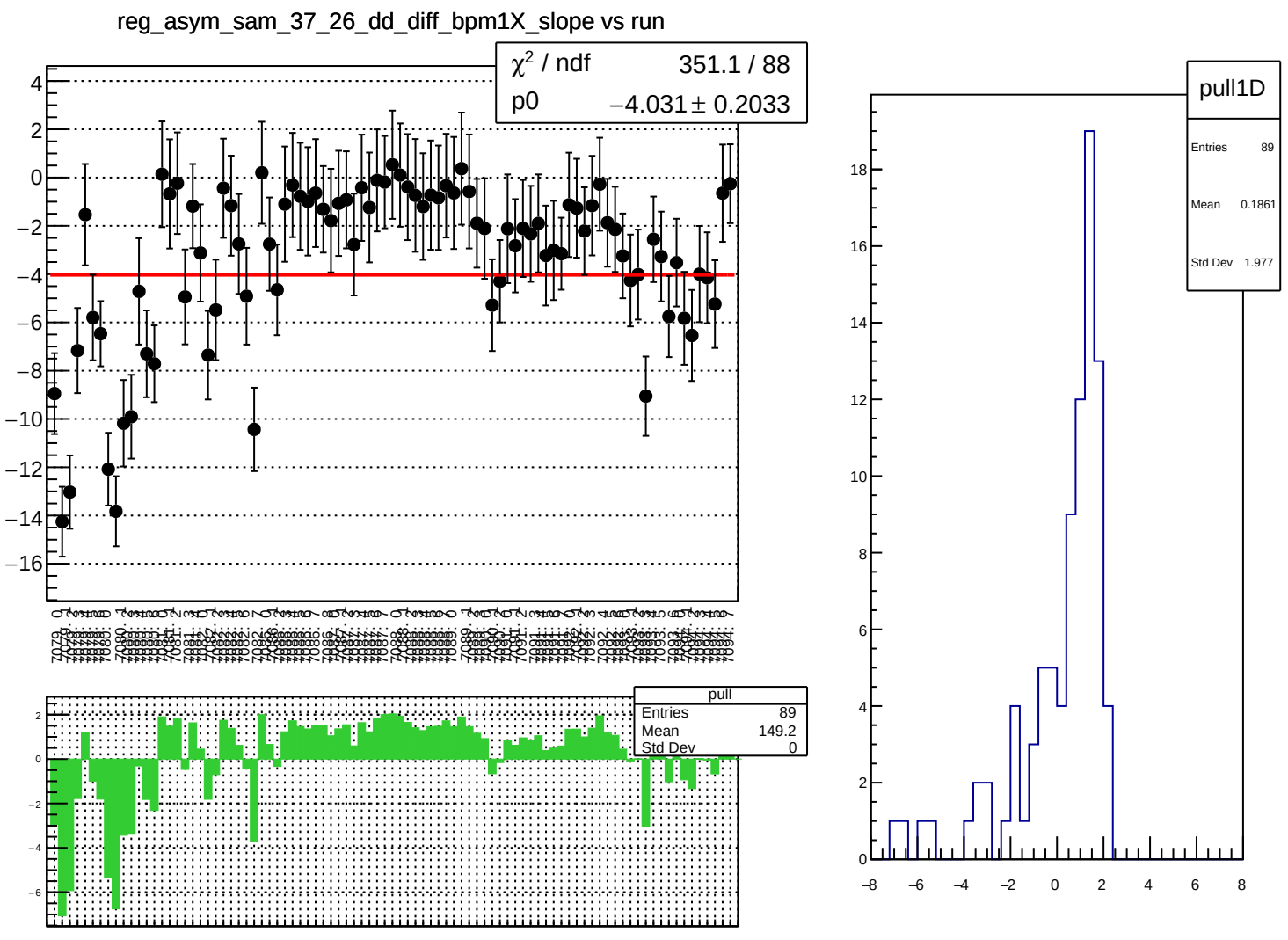

pull1D
Entries 89
Mean 0.01738
Std Dev 0.4572

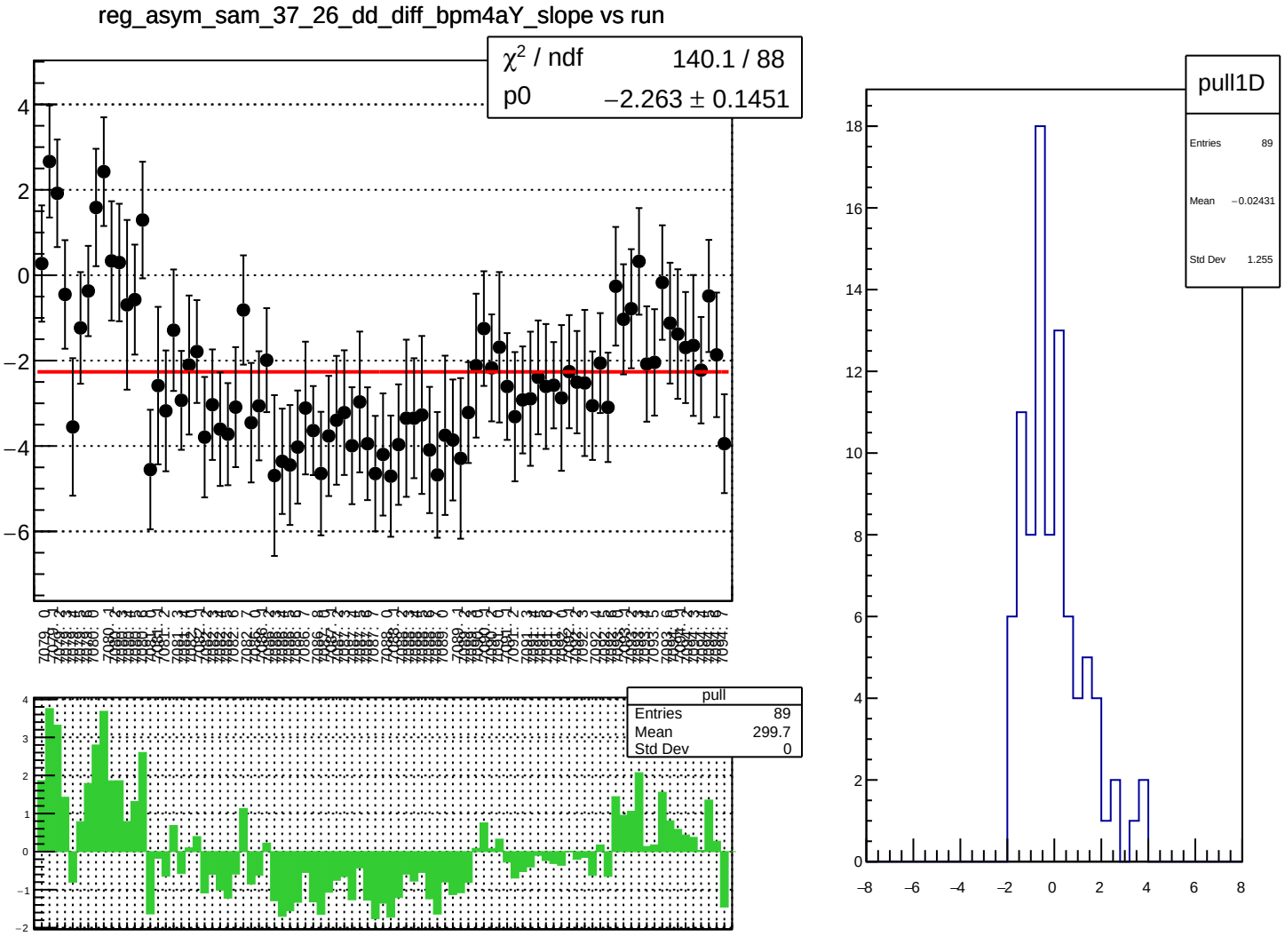

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.5 / 88
p0 −5.297 ± 0.3202
pull
Entries 89
Mean 273.4
Std Dev 0
pull1D
Entries 89
Mean 0.01373
Std Dev 0.3745

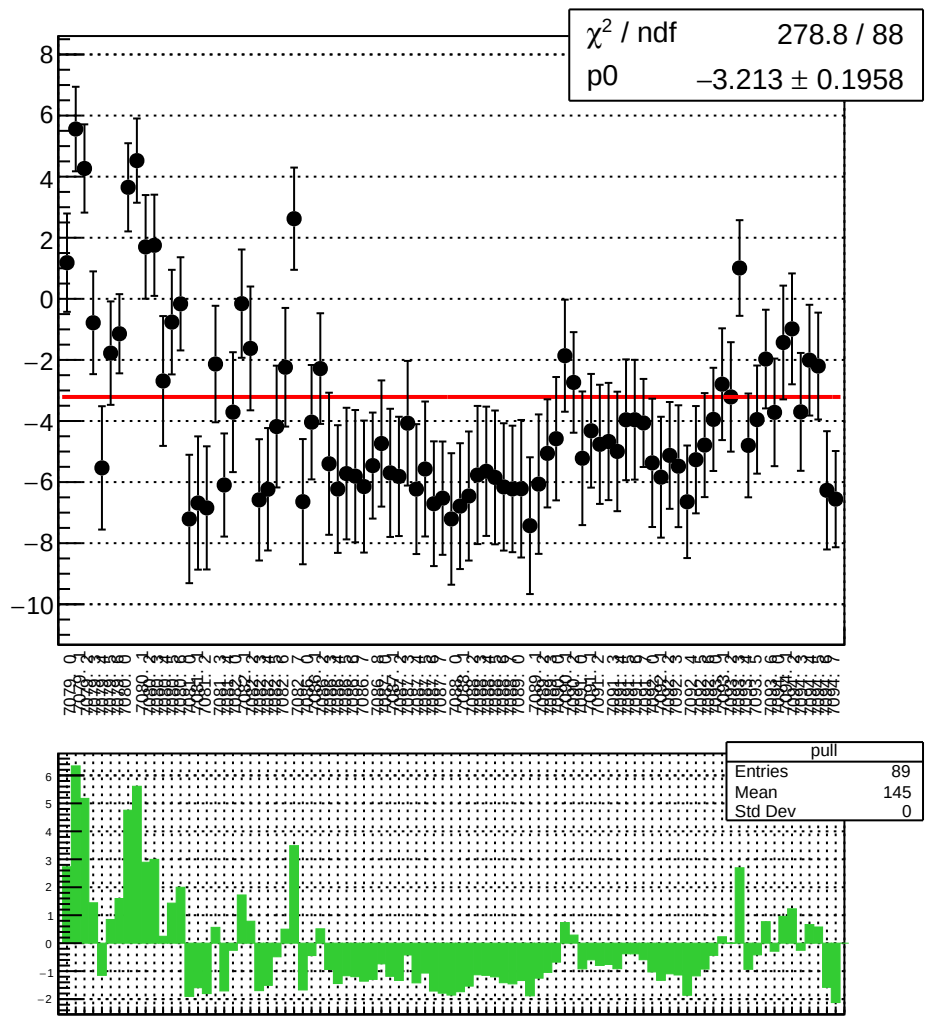

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.55 / 88
p0 29.99 ± 0.4344
pull
Entries 89
Mean 392.1
Std Dev 0
pull1D
Entries 89
Mean −0.01962
Std Dev 0.556

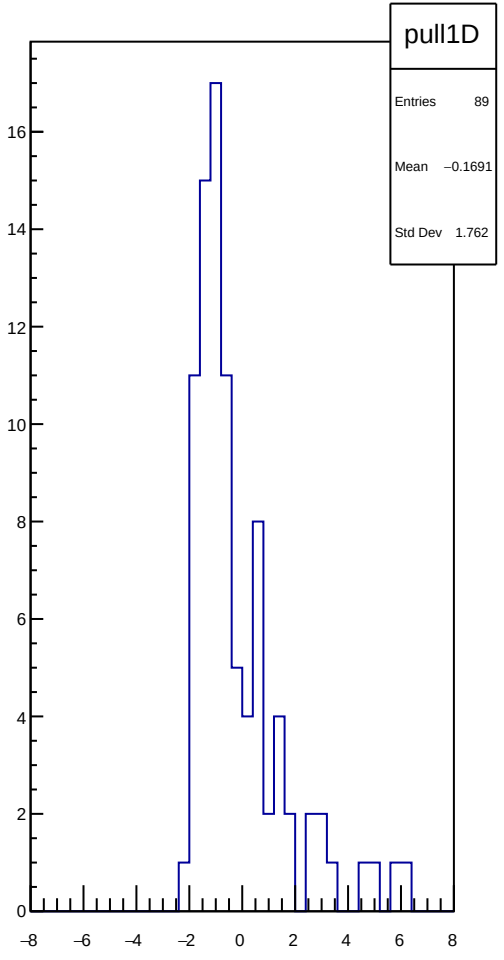

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.28 / 88
p0 50.83 ± 0.3367
pull
Entries 89
Mean 3791
Std Dev 0
pull1D
Entries 89
Mean −0.001585
Std Dev 0.4407

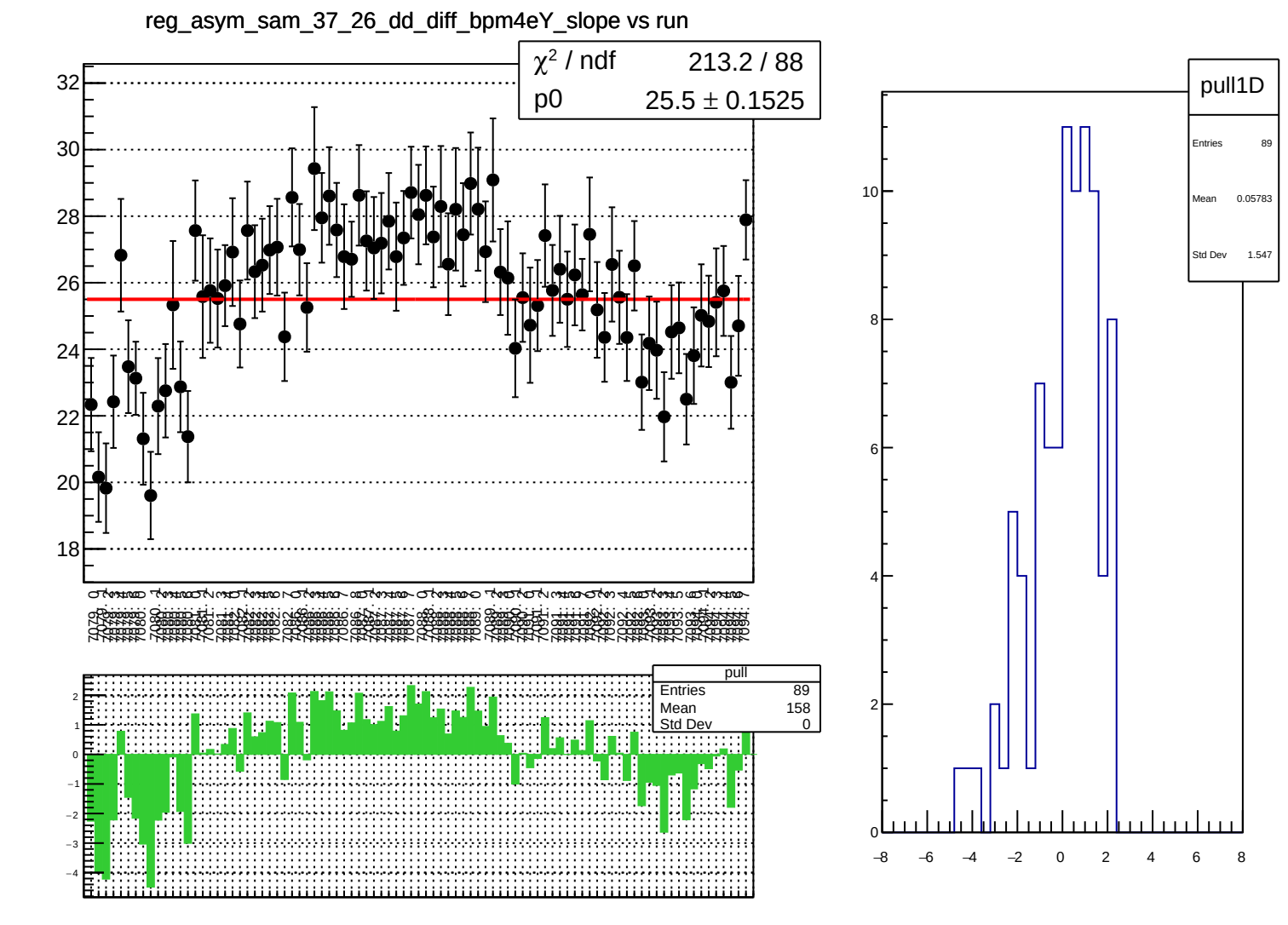

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 8.088 / 88
p0 −0.349 ± 0.01569
pull
Entries 89
Mean −2572
Std Dev 0
pull1D
Entries 89
Mean 0.0002953
Std Dev 0.3015

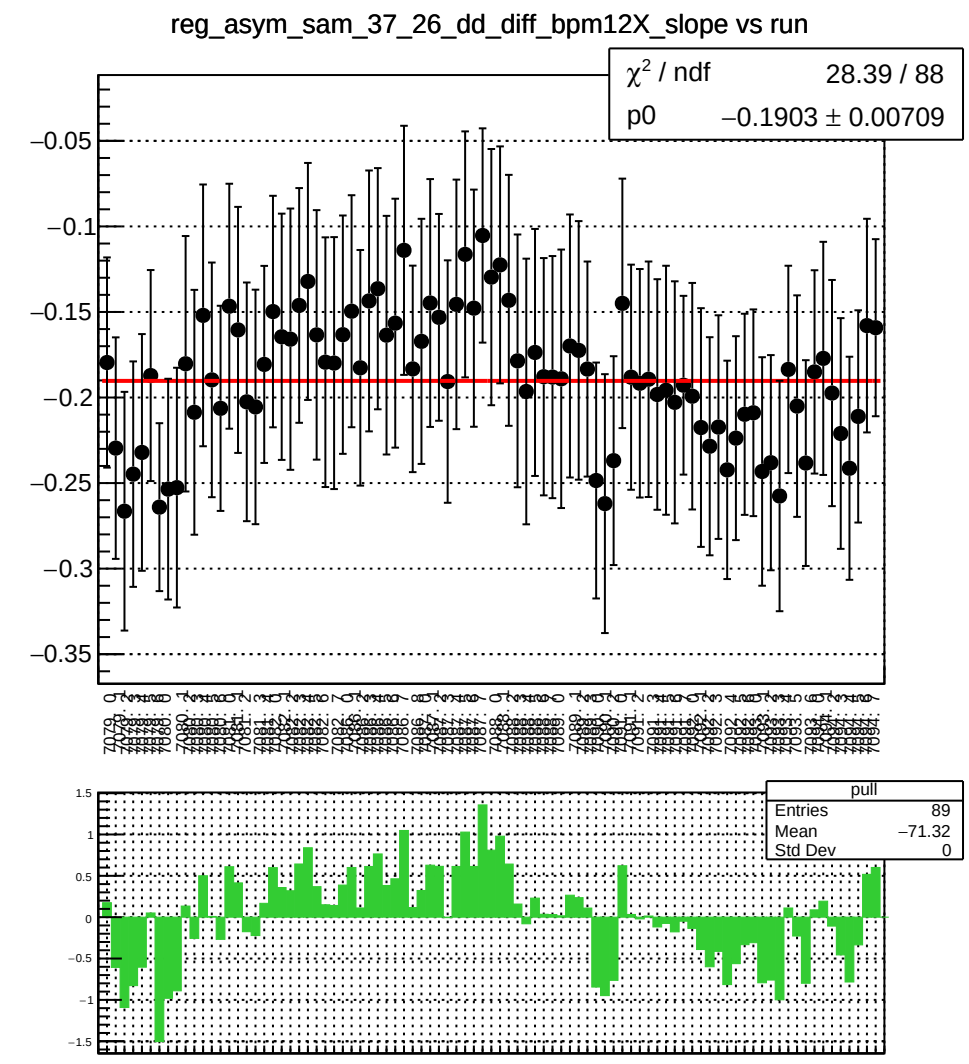

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 351.1 / 88
p0 −4.031 ± 0.2033
pull
Entries 89
Mean 149.2
Std Dev 0
pull1D
Entries 89
Mean 0.1861
Std Dev 1.977

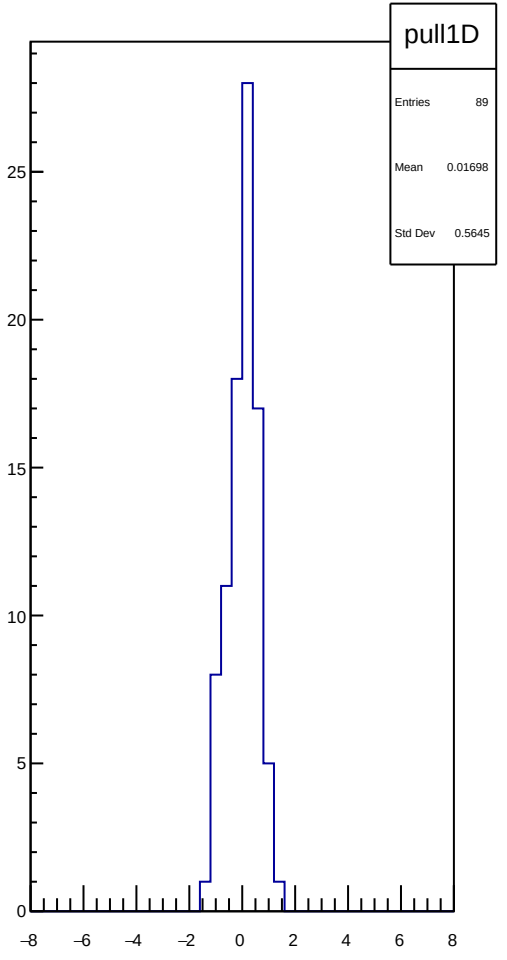

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 140.1 / 88
p0 −2.263 ± 0.1451
pull
Entries 89
Mean 299.7
Std Dev 0
pull1D
Entries 89
Mean −0.02431
Std Dev 1.255

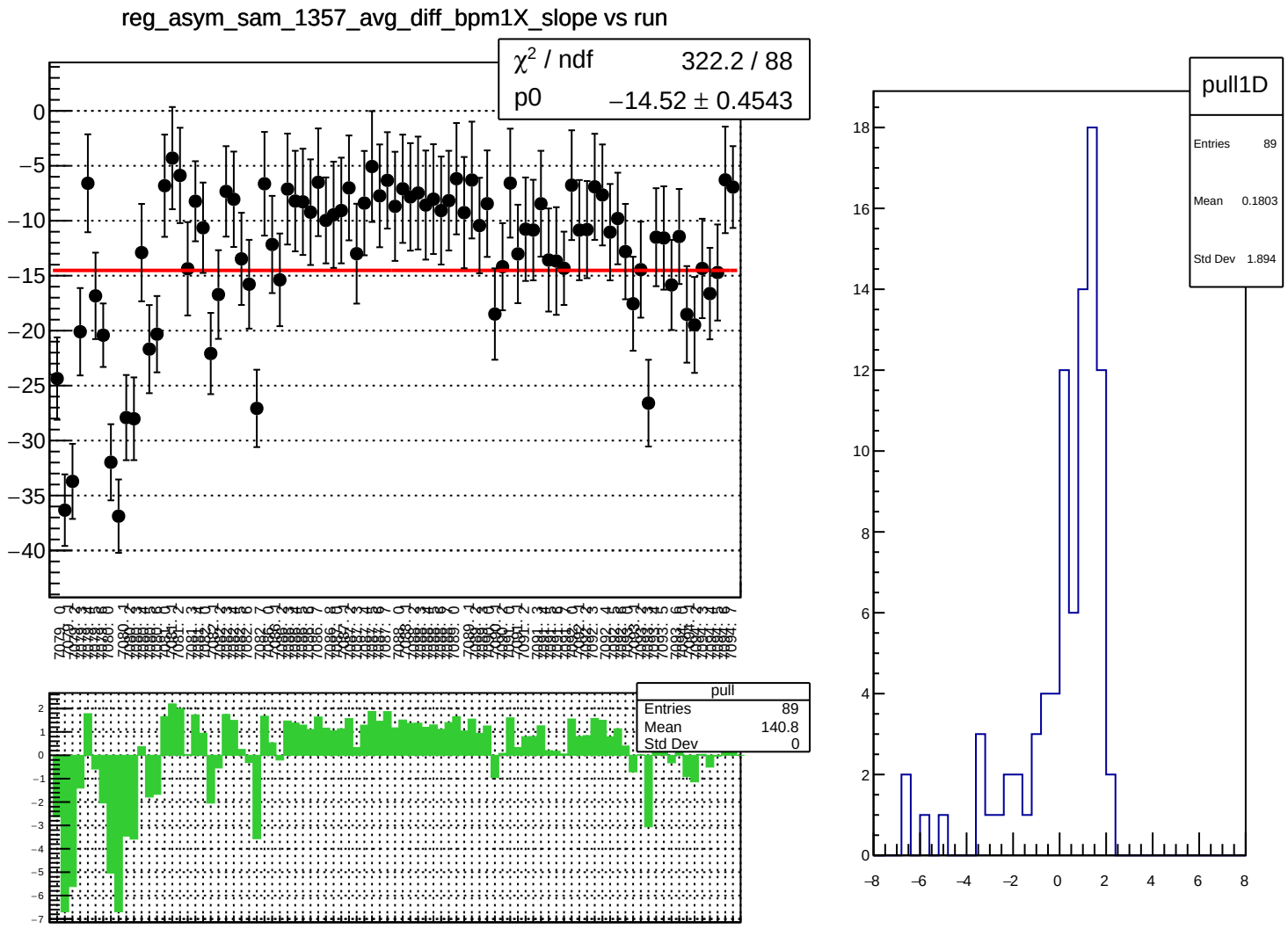

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 278.8 / 88
p0 −3.213 ± 0.1958
pull
Entries 89
Mean 145
Std Dev 0

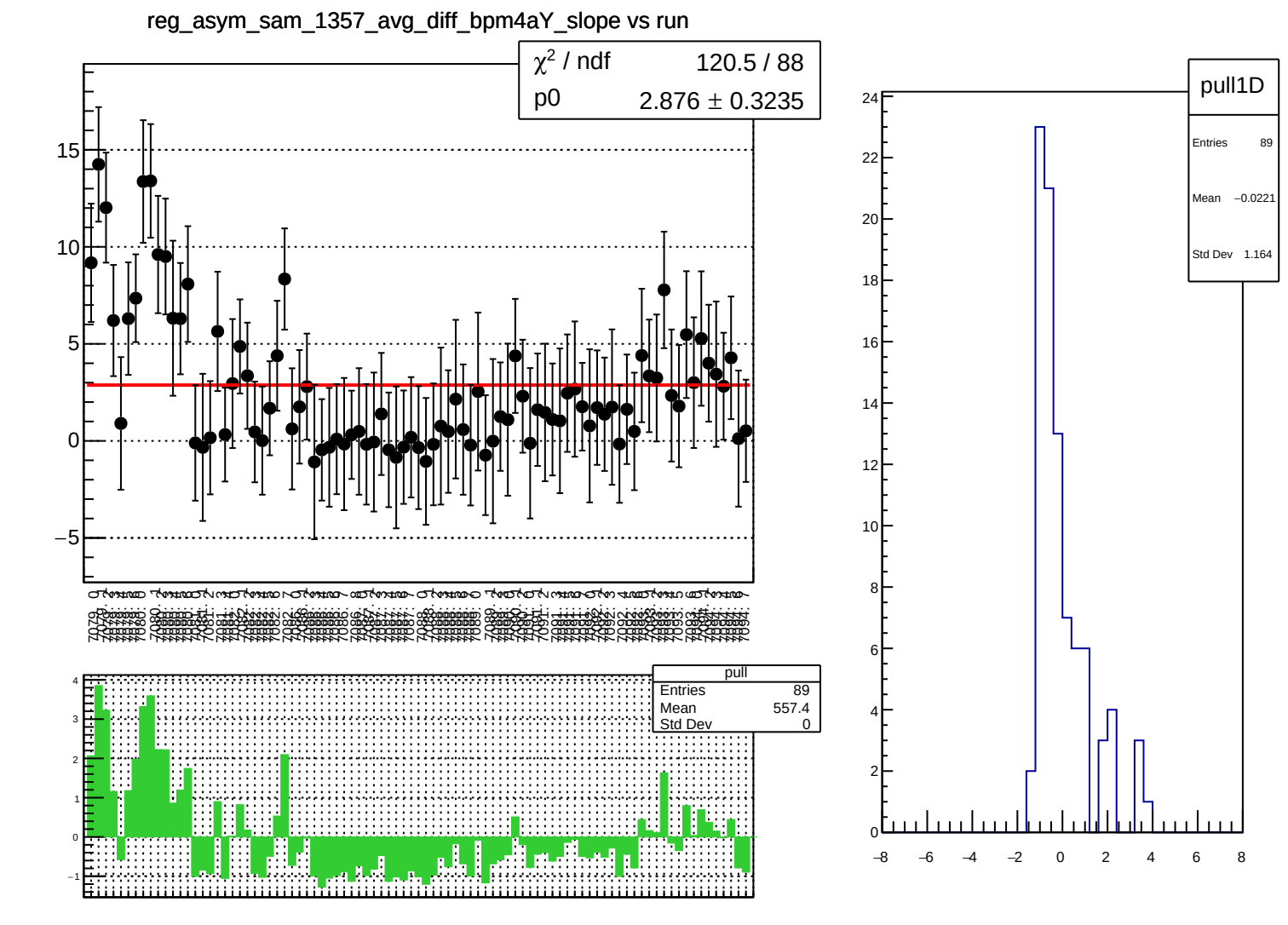

pull1D
Entries 89
Mean −0.1691
Std Dev 1.762

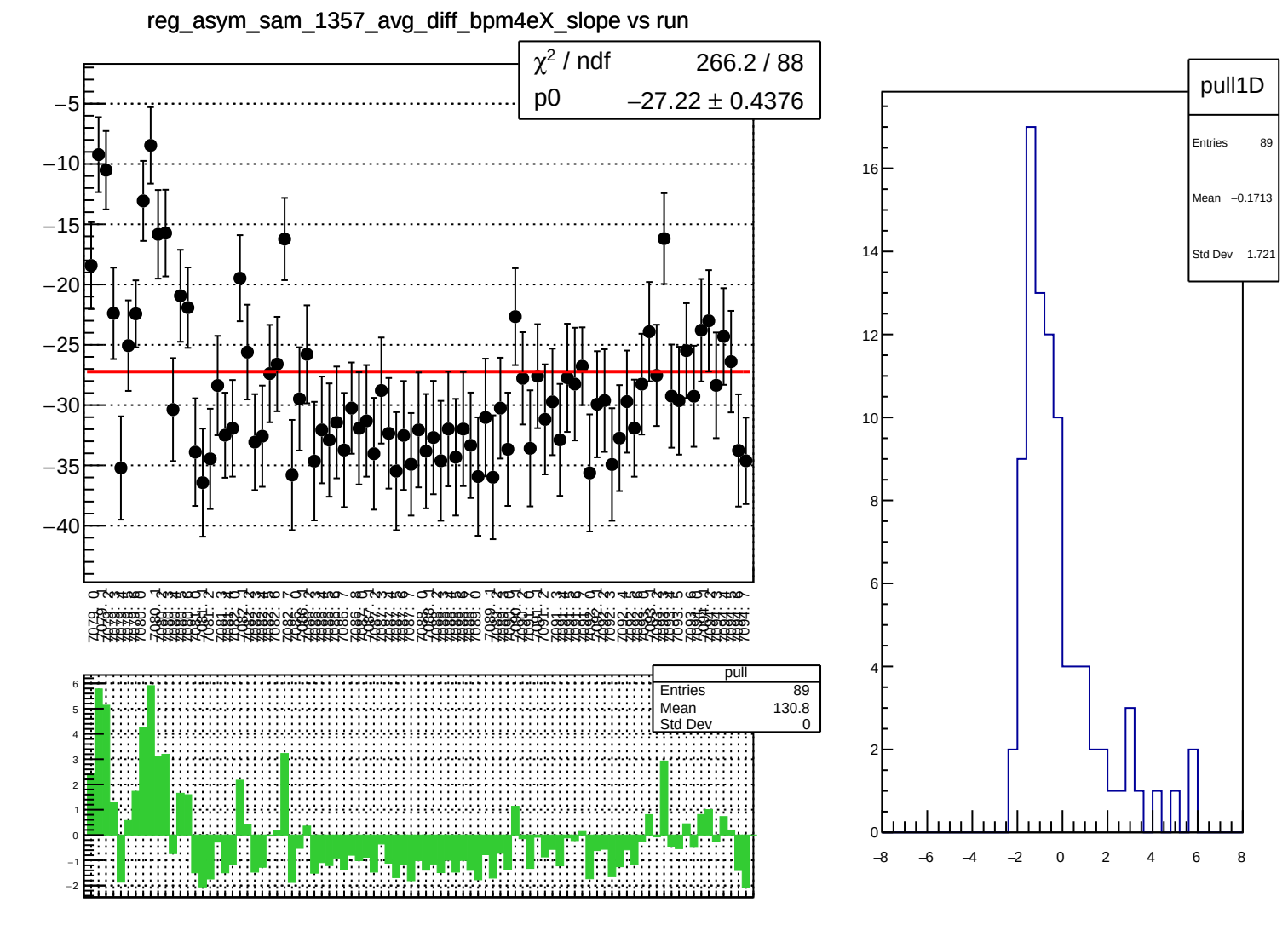

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 213.2 / 88
p0 25.5 ± 0.1525
pull
Entries 89
Mean 158
Std Dev 0
pull1D
Entries 89
Mean 0.05783
Std Dev 1.547

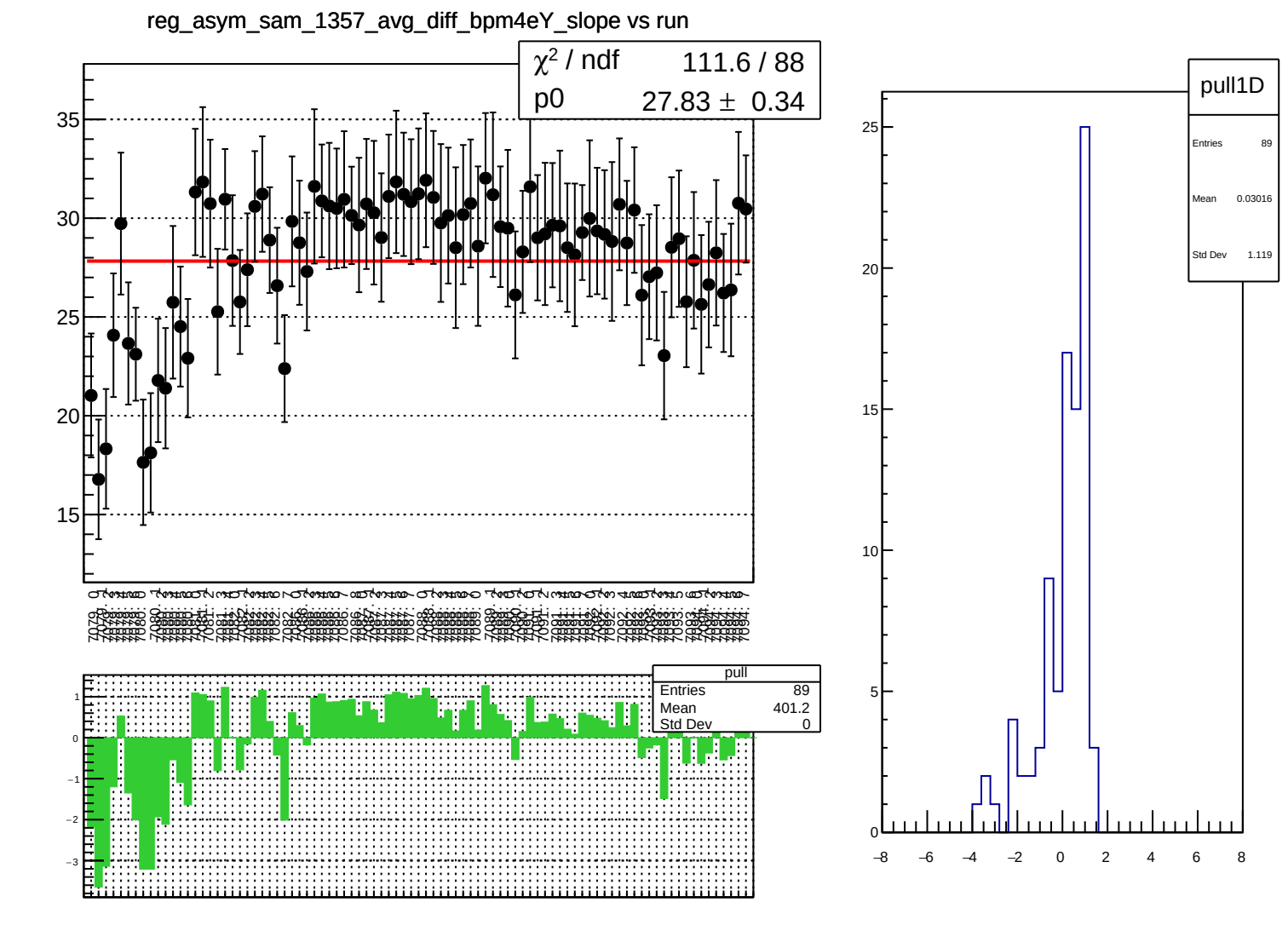

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 28.39 / 88
p0 −0.1903 ± 0.00709
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 89
Mean −71.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

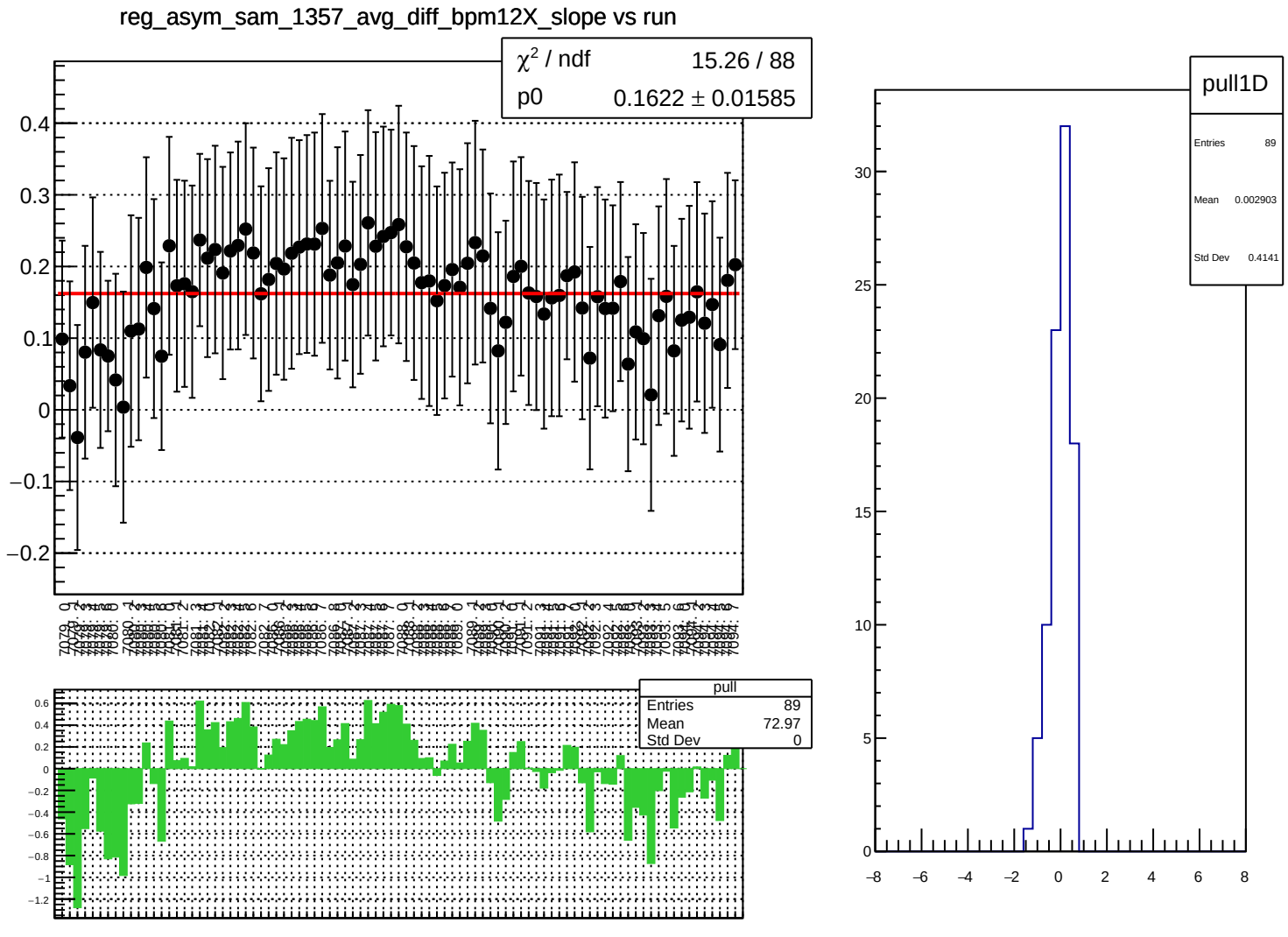

pull1D
Entries 89
Mean 0.01698
Std Dev 0.5645
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

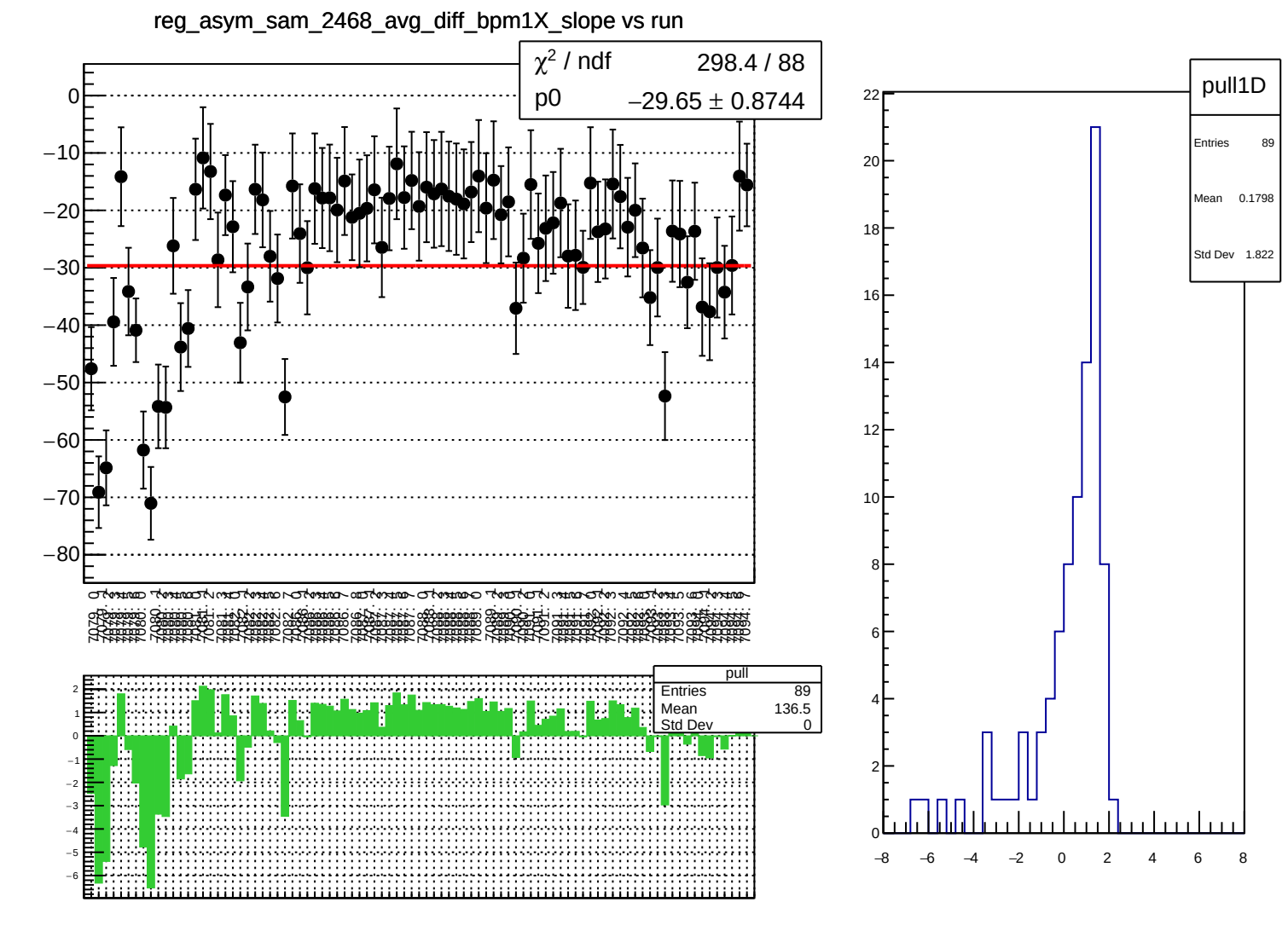

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 322.2 / 88
p0 −14.52 ± 0.4543
pull
Entries 89
Mean 140.8
Std Dev 0
pull1D
Entries 89
Mean 0.1803
Std Dev 1.894

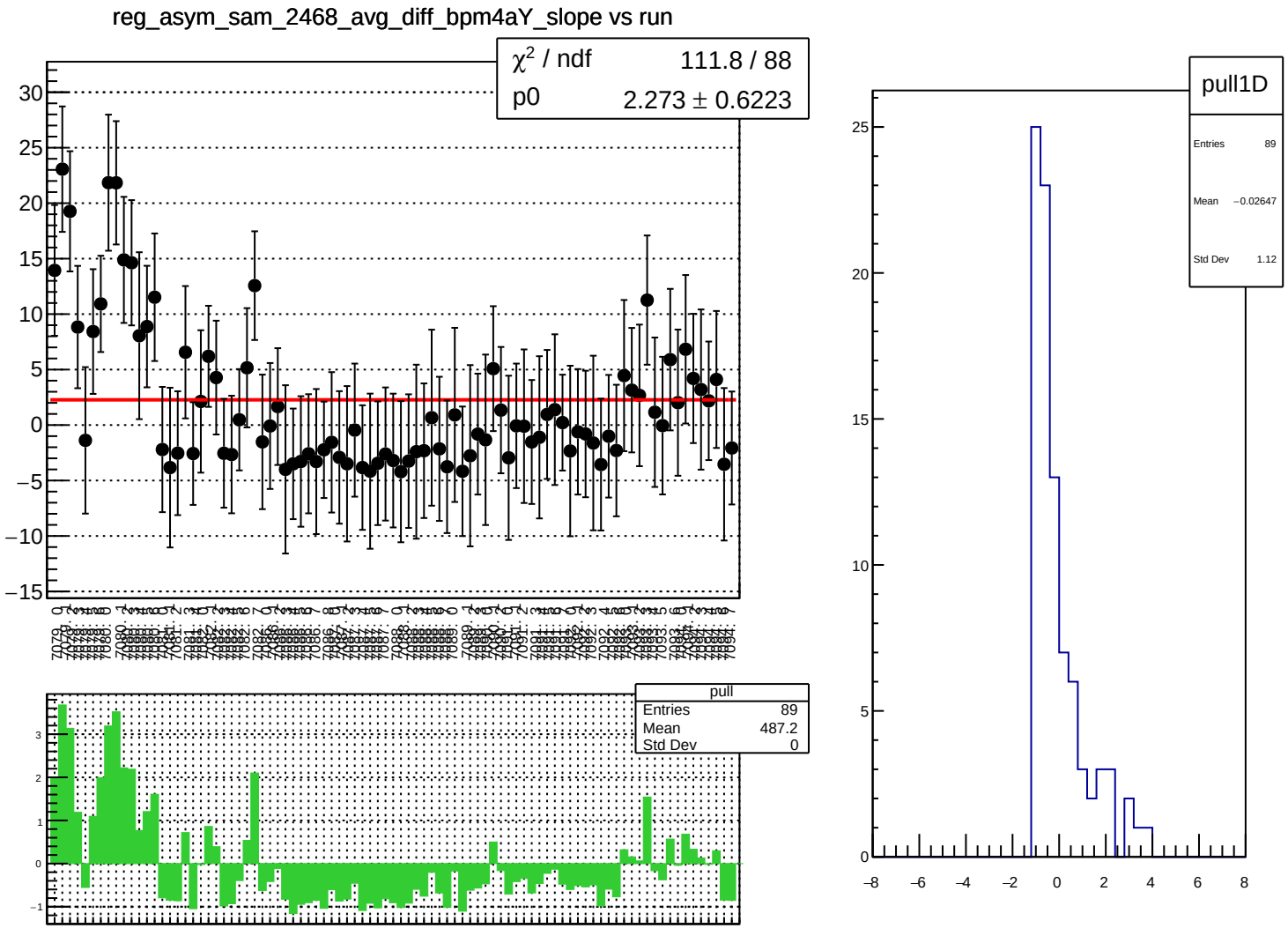

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 120.5 / 88
p0 2.876 ± 0.3235
pull
Entries 89
Mean 557.4
Std Dev 0
pull1D
Entries 89
Mean −0.0221
Std Dev 1.164

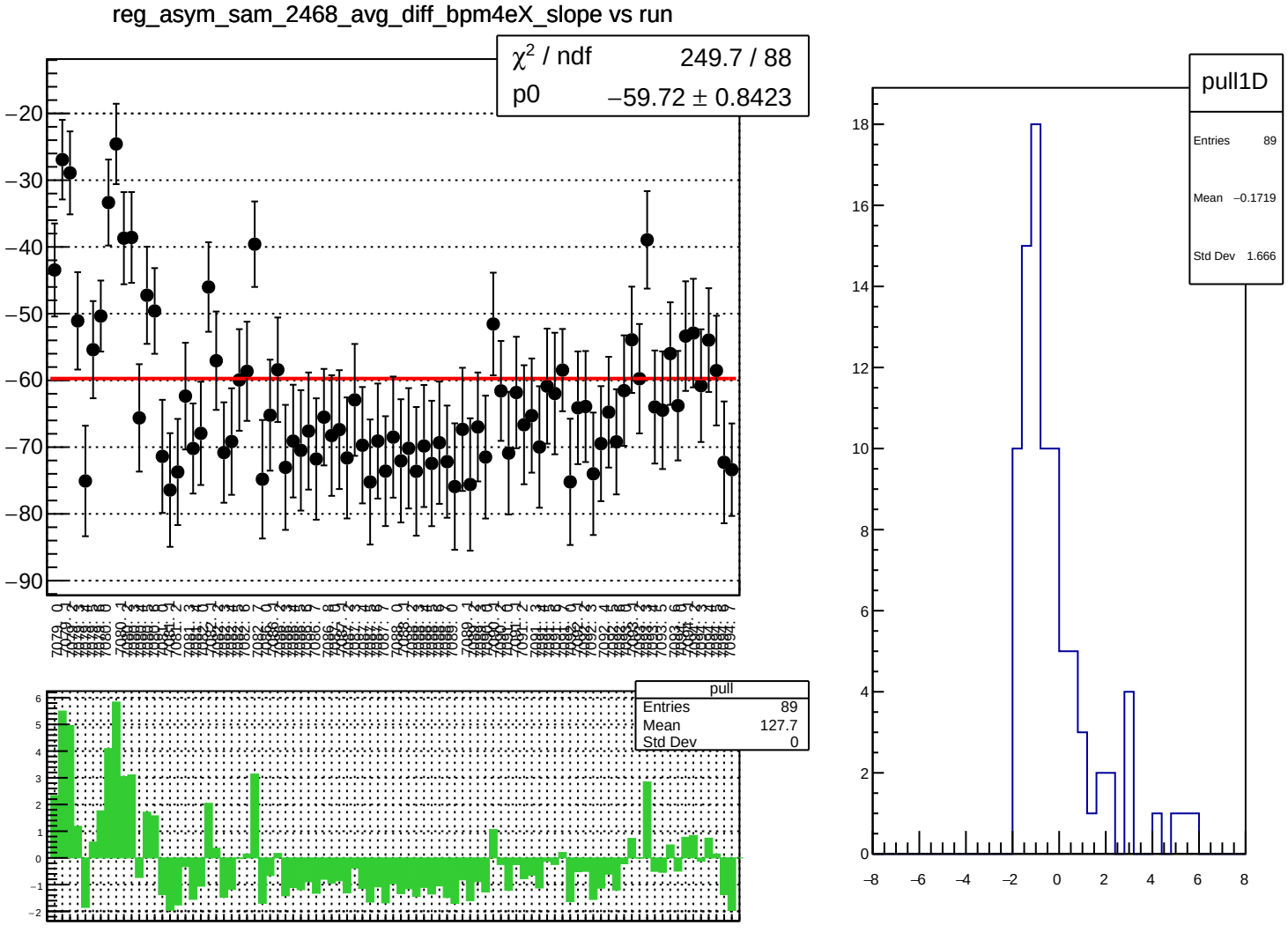

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 266.2 / 88
p0 −27.22 ± 0.4376
pull
Entries 89
Mean 130.8
Std Dev 0
pull1D
Entries 89
Mean −0.1713
Std Dev 1.721

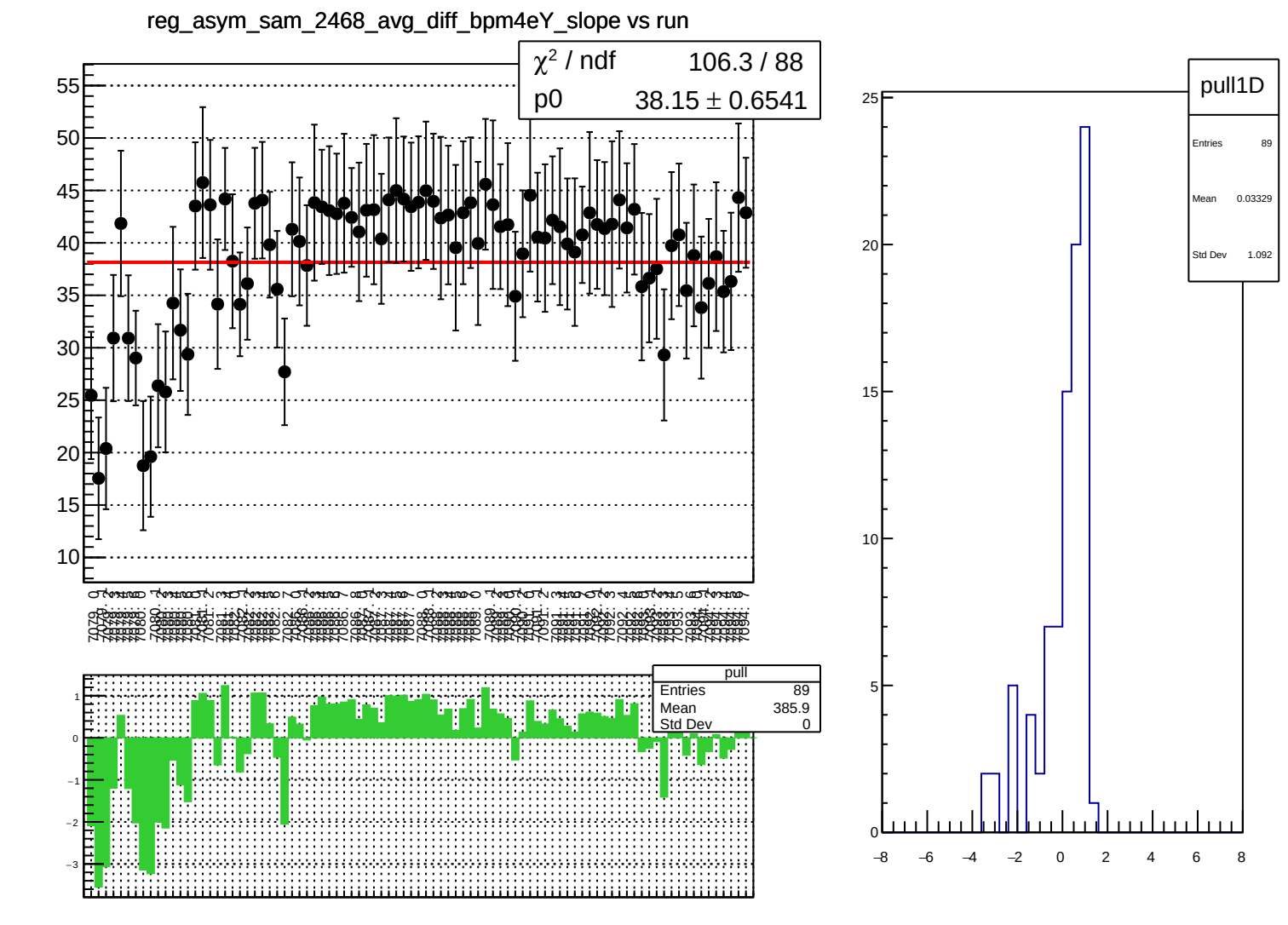

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 111.6 / 88
p0 27.83 ± 0.34
pull
Entries 89
Mean 401.2
Std Dev 0
pull1D
Entries 89
Mean 0.03016
Std Dev 1.119

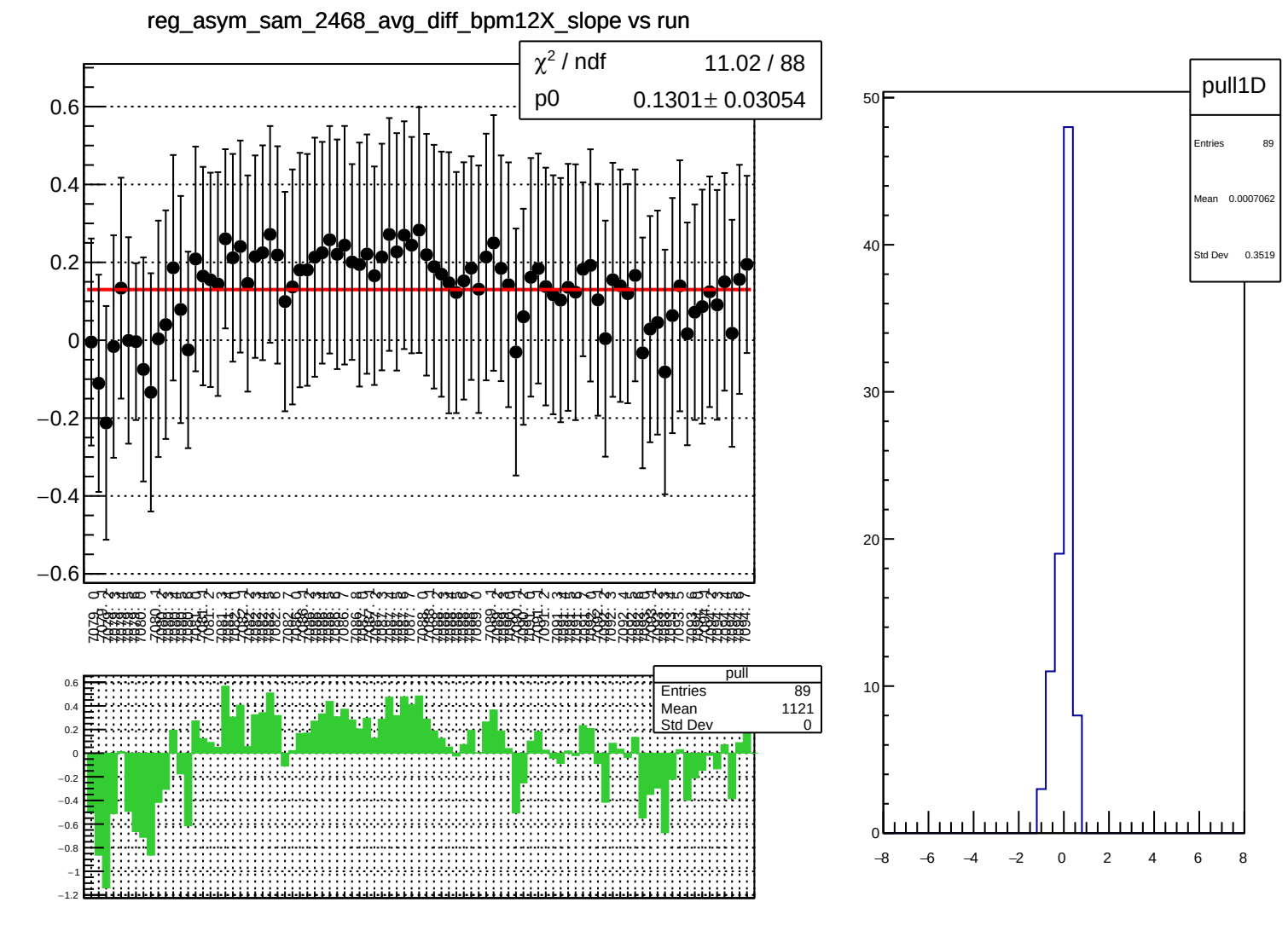

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 15.26 / 88
p0 0.1622 ± 0.01585
pull
Entries 89
Mean 72.97
Std Dev 0
pull1D
Entries 89
Mean 0.002903
Std Dev 0.4141

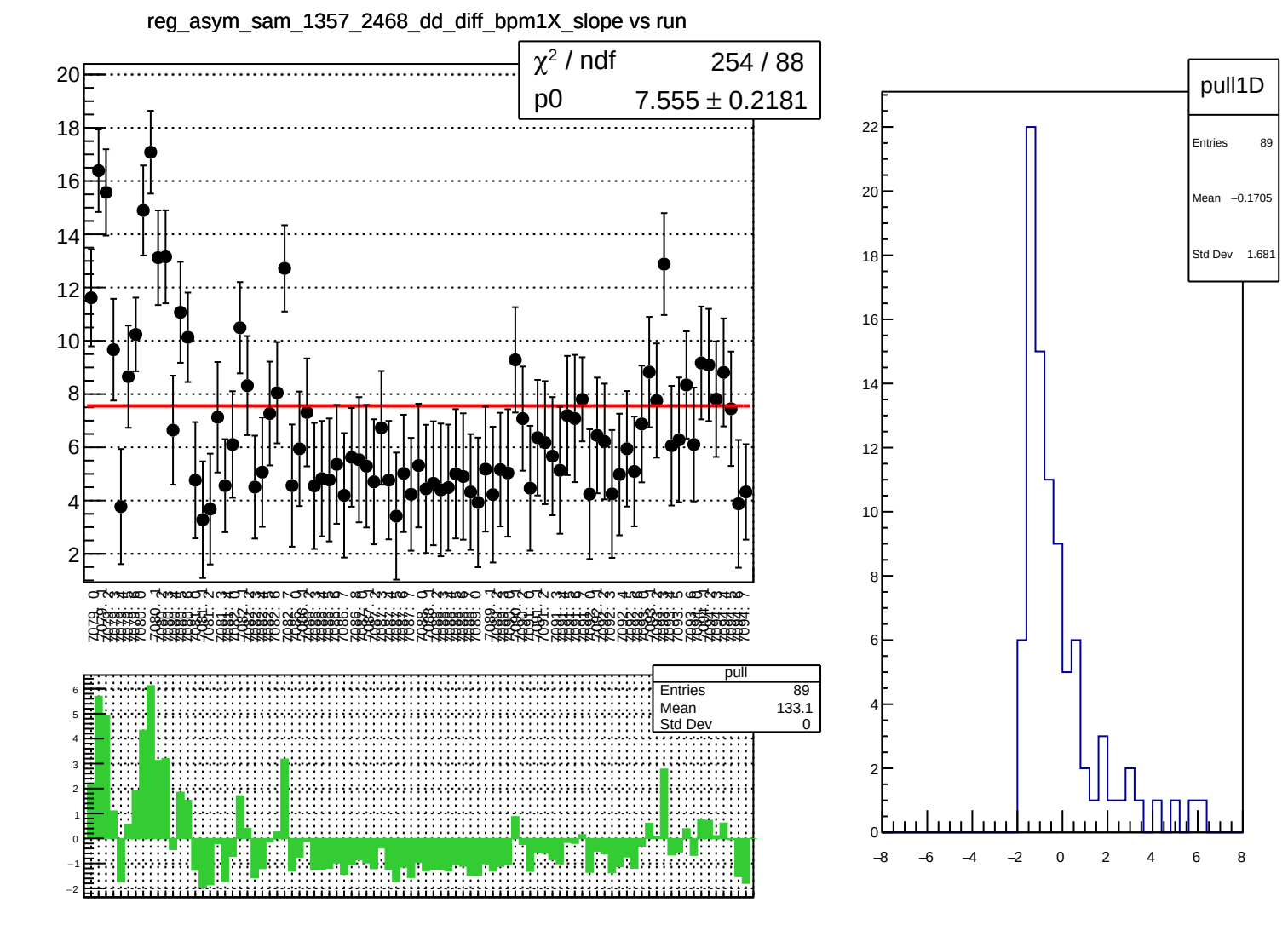

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 298.4 / 88
p0 −29.65 ± 0.8744
pull
Entries 89
Mean 136.5
Std Dev 0
pull1D
Entries 89
Mean 0.1798
Std Dev 1.822

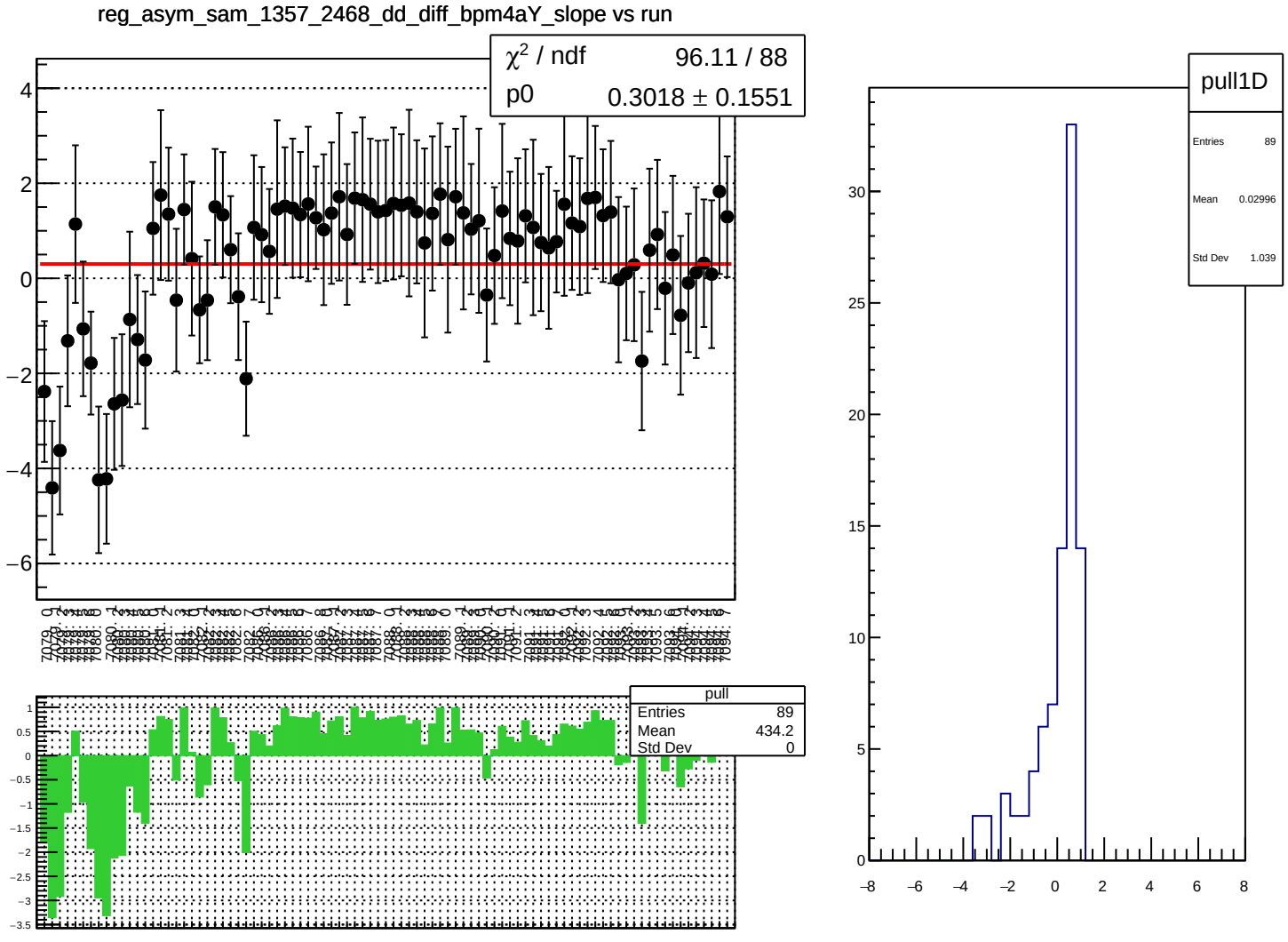

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 111.8 / 88
p0 2.273 ± 0.6223
pull
Entries 89
Mean 487.2
Std Dev 0
pull1D
Entries 89
Mean −0.02647
Std Dev 1.12

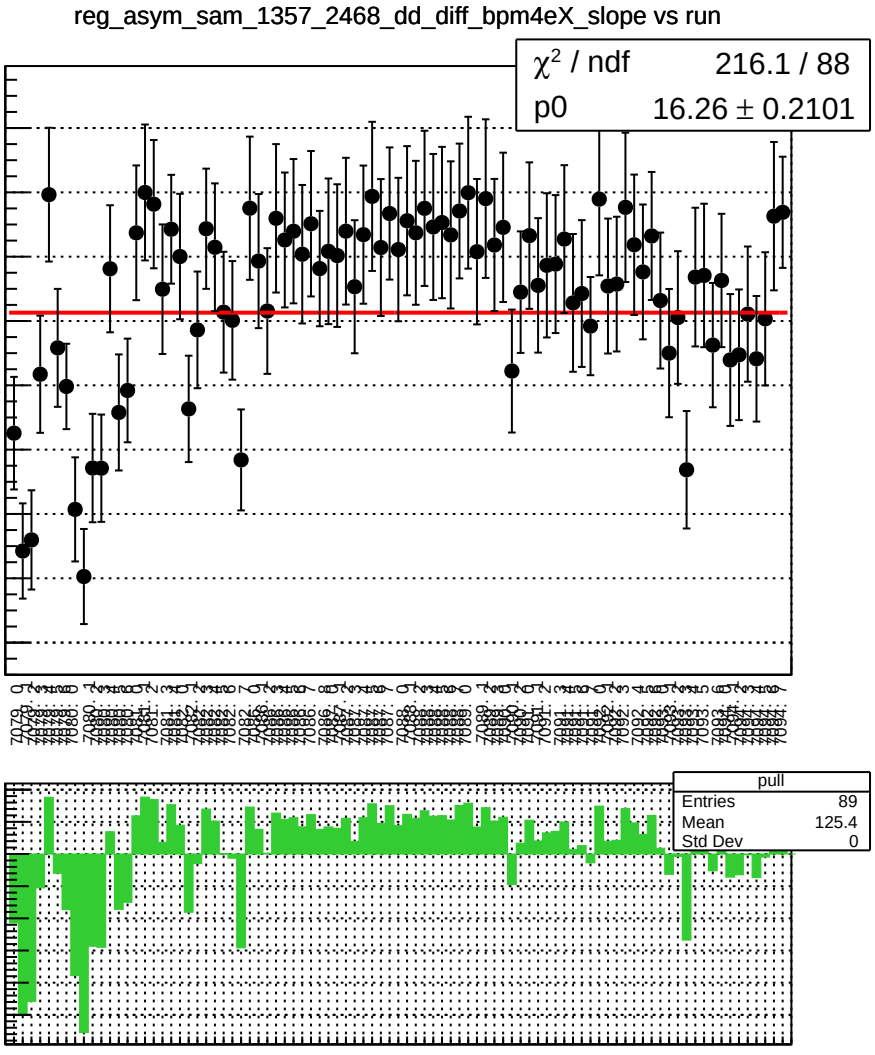

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 249.7 / 88
p0 −59.72 ± 0.8423
pull
Entries 89
Mean 127.7
Std Dev 0
pull1D
Entries 89
Mean −0.1719
Std Dev 1.666

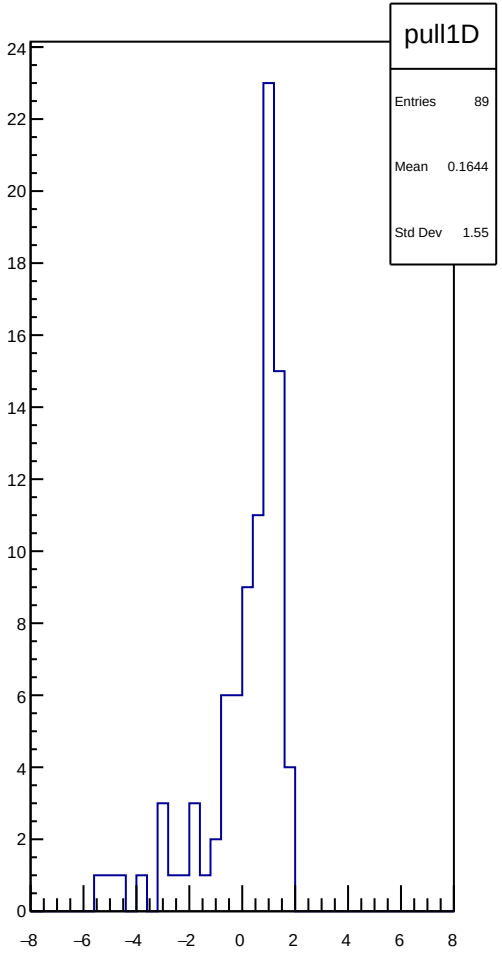

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 106.3 / 88
p0 38.15 ± 0.6541
pull
Entries 89
Mean 385.9
Std Dev 0
pull1D
Entries 89
Mean 0.03329
Std Dev 1.092

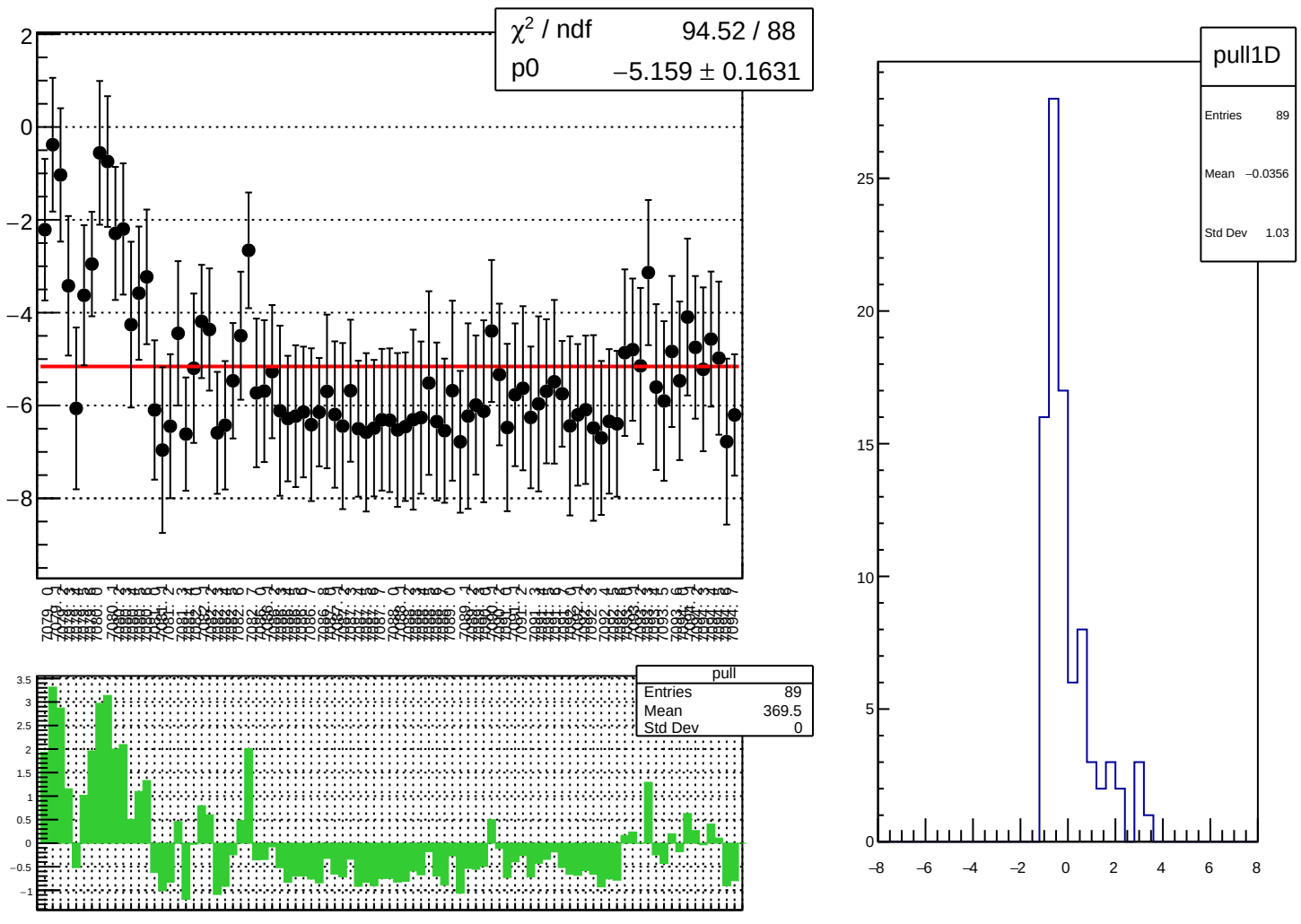

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 11.02 / 88
p0 0.1301± 0.03054
pull
Entries 89
Mean 1121
Std Dev 0
pull1D
Entries 89
Mean 0.0007062
Std Dev 0.3519

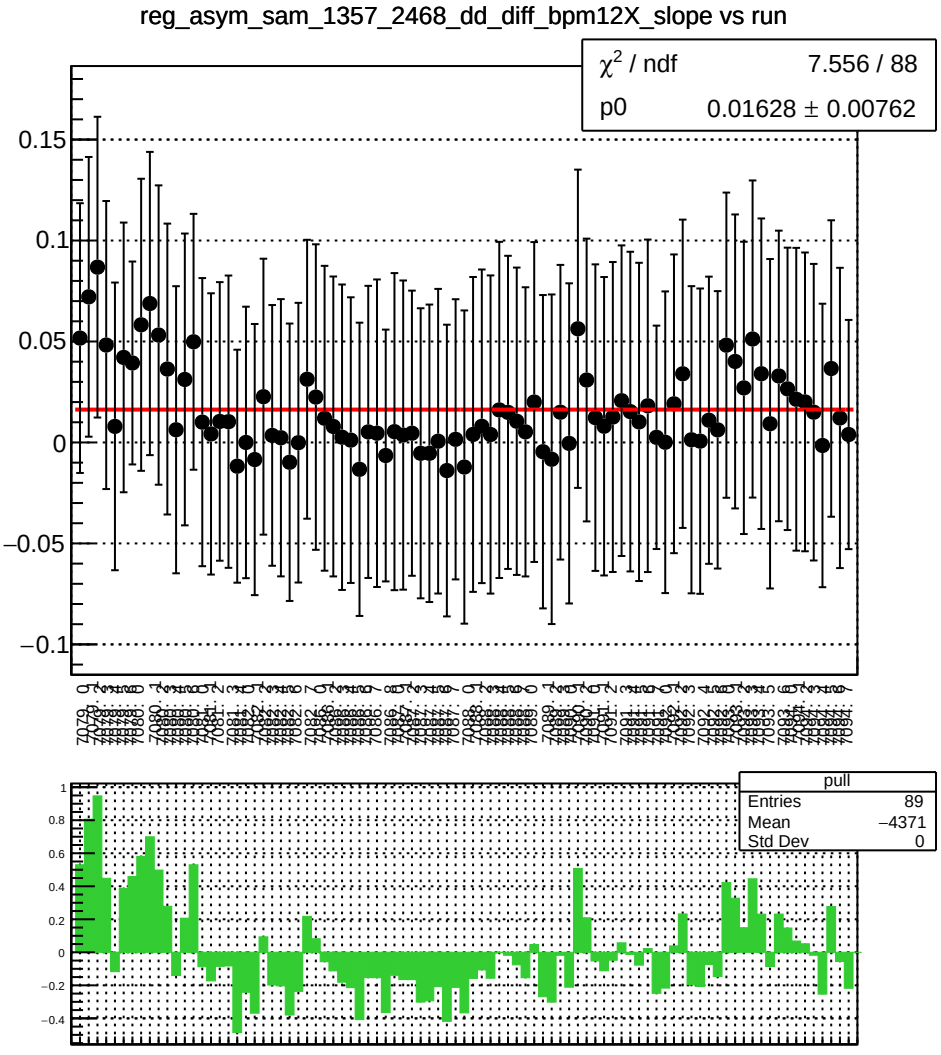

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 254 / 88
p0 7.555 ± 0.2181
pull
Entries 89
Mean 133.1
Std Dev 0
pull1D
Entries 89
Mean −0.1705
Std Dev 1.681

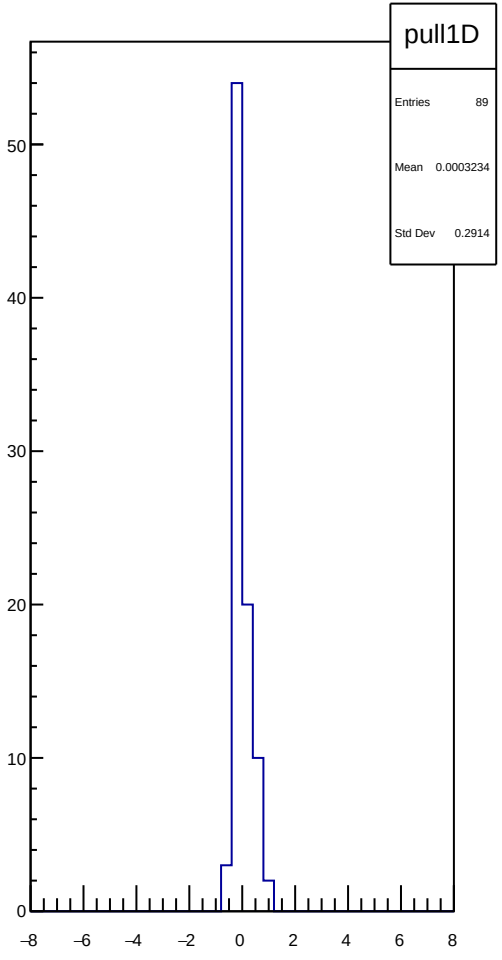

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.11 / 88
p0 0.3018 ± 0.1551
pull
Entries 89
Mean 434.2
Std Dev 0
pull1D
Entries 89
Mean 0.02996
Std Dev 1.039

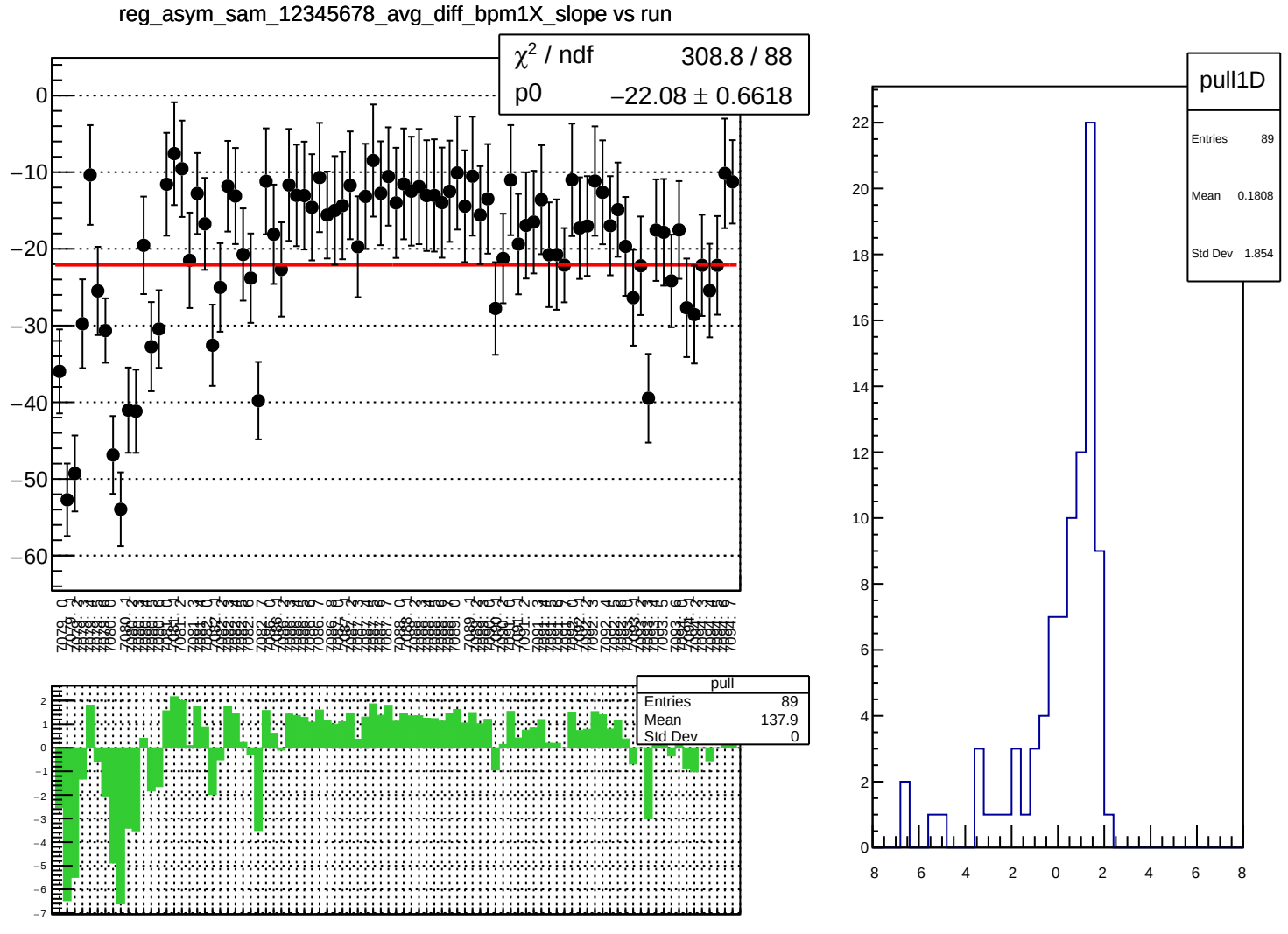

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 216.1 / 88
p0 16.26 ± 0.2101
pull
Entries 89
Mean 125.4
Std Dev 0

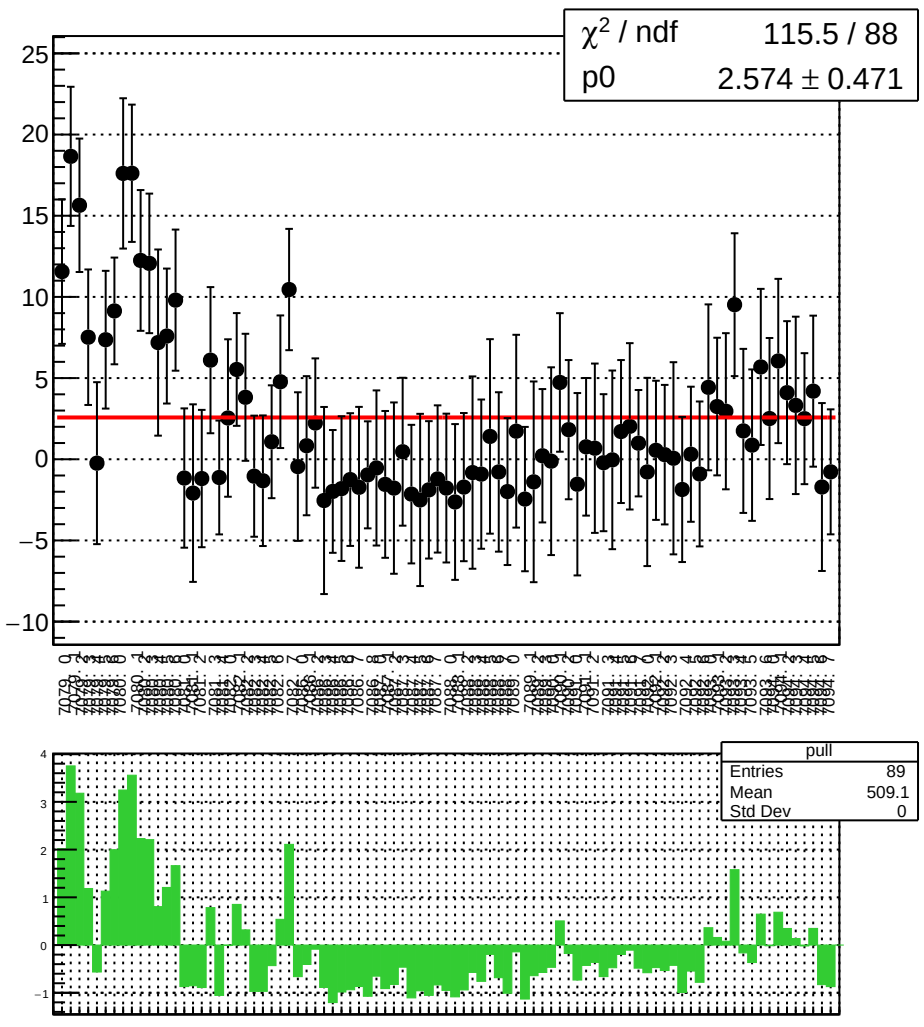

pull1D
Entries 89
Mean 0.1644
Std Dev 1.55

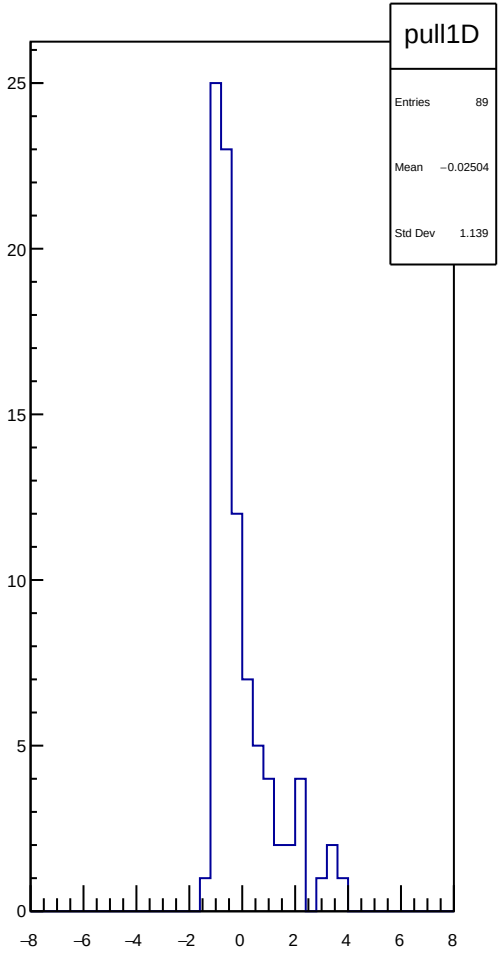

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.52 / 88
p0 −5.159 ± 0.1631
pull
Entries 89
Mean 369.5
Std Dev 0
pull1D
Entries 89
Mean −0.0356
Std Dev 1.03

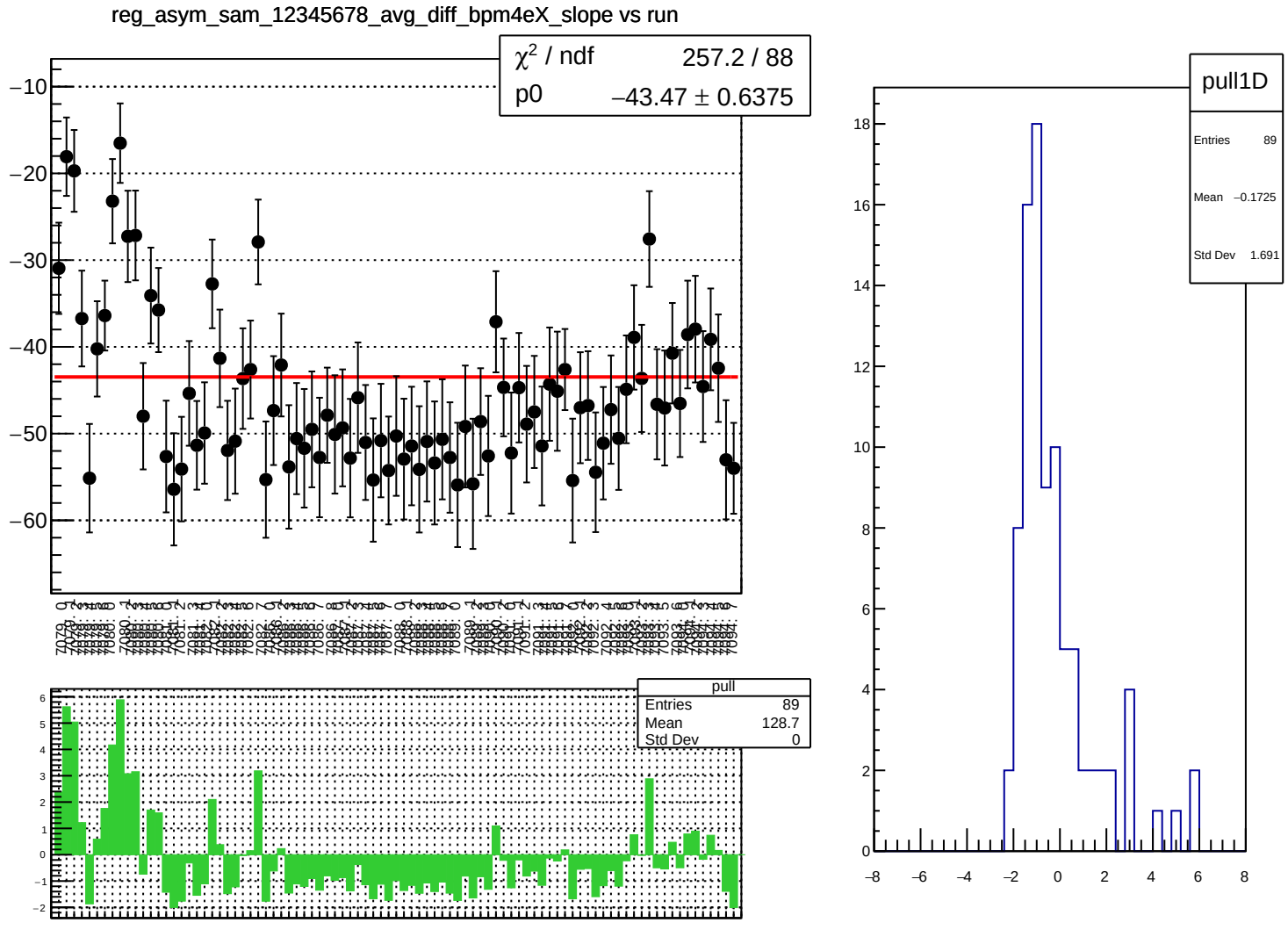

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 7.556 / 88
p0 0.01628 ± 0.00762
pull
Entries 89
Mean −4371
Std Dev 0

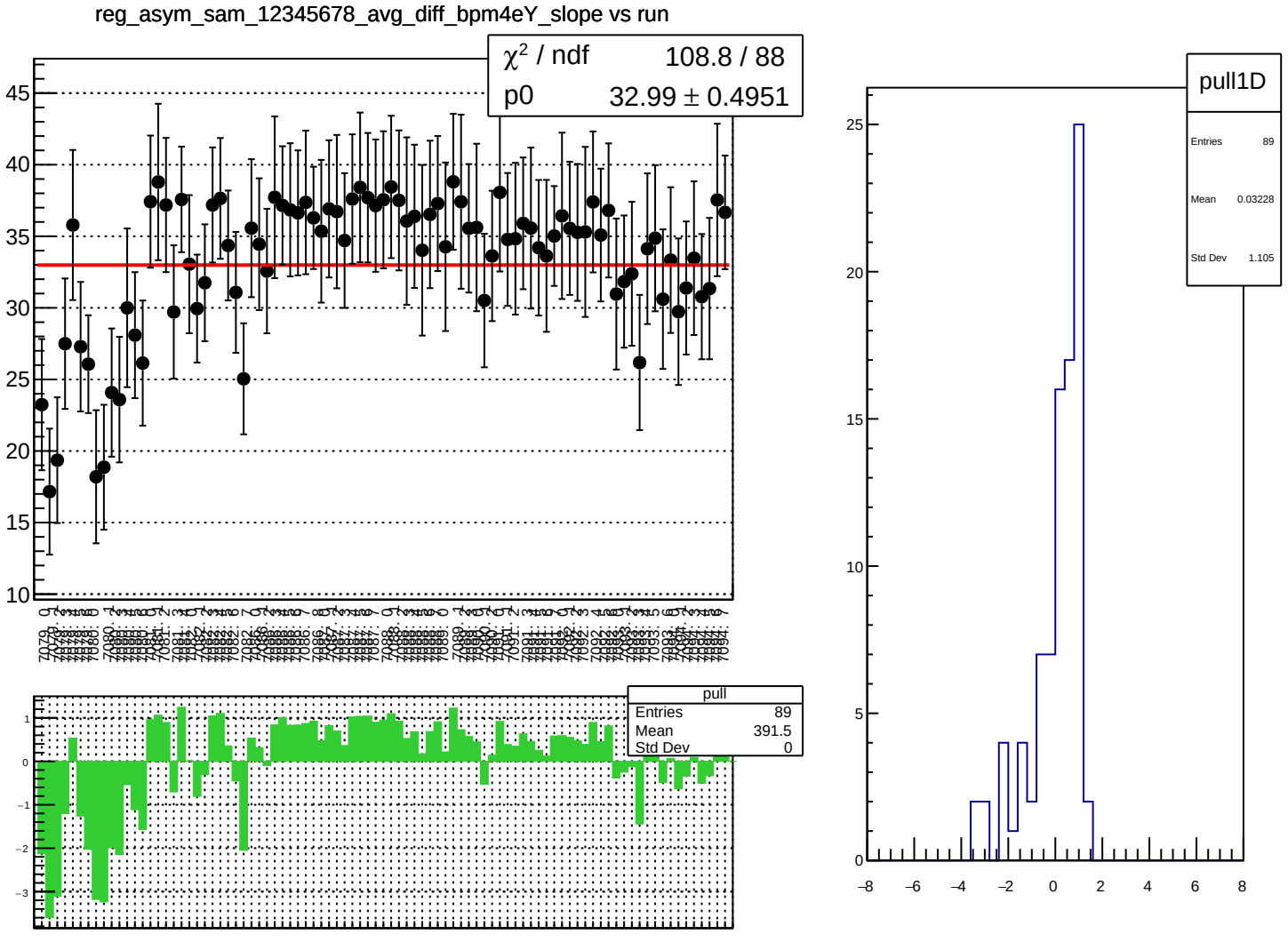

pull1D
Entries 89
Mean 0.0003234
Std Dev 0.2914

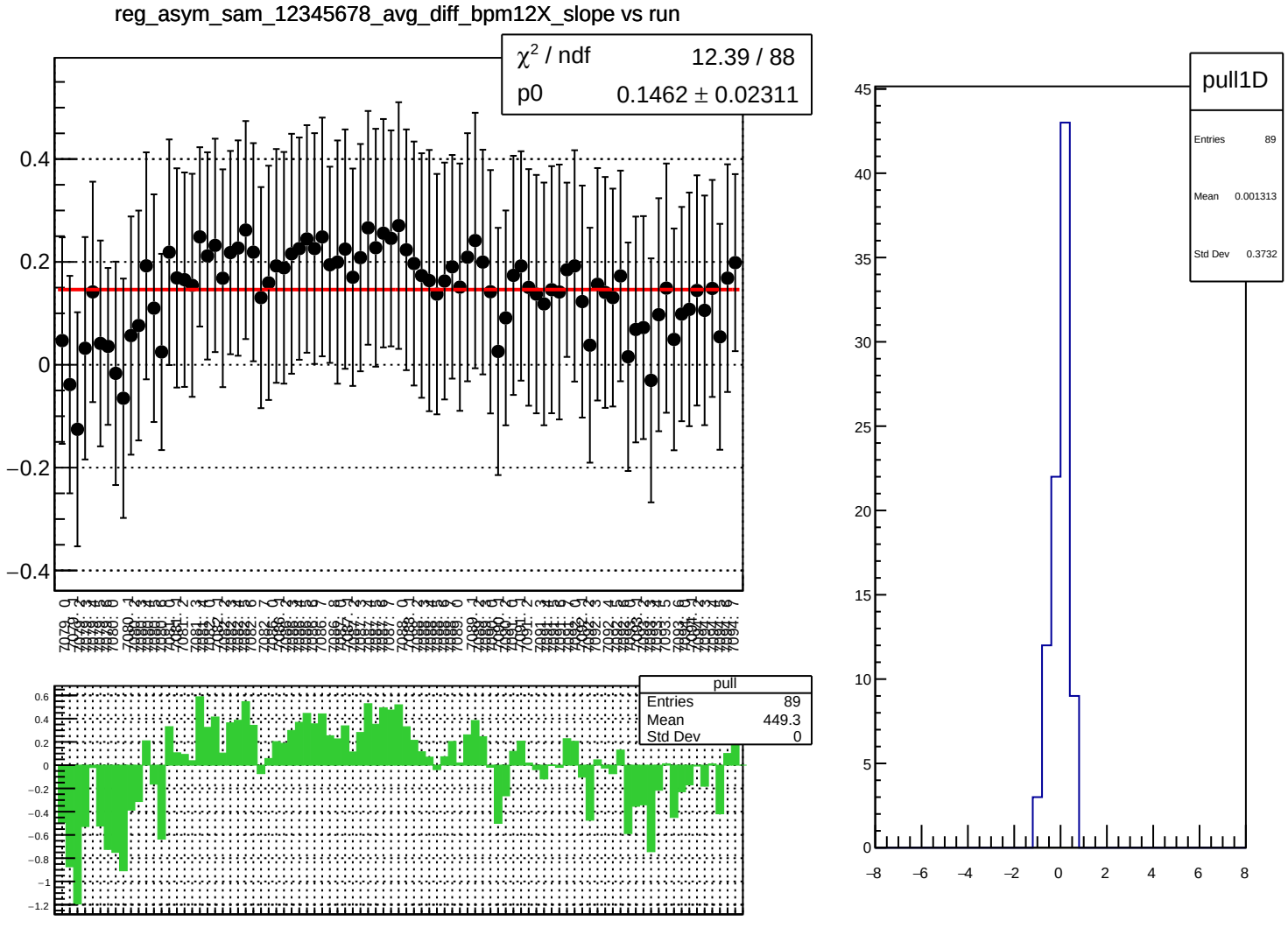

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 308.8 / 88
p0 −22.08 ± 0.6618
pull
Entries 89
Mean 137.9
Std Dev 0
pull1D
Entries 89
Mean 0.1808
Std Dev 1.854

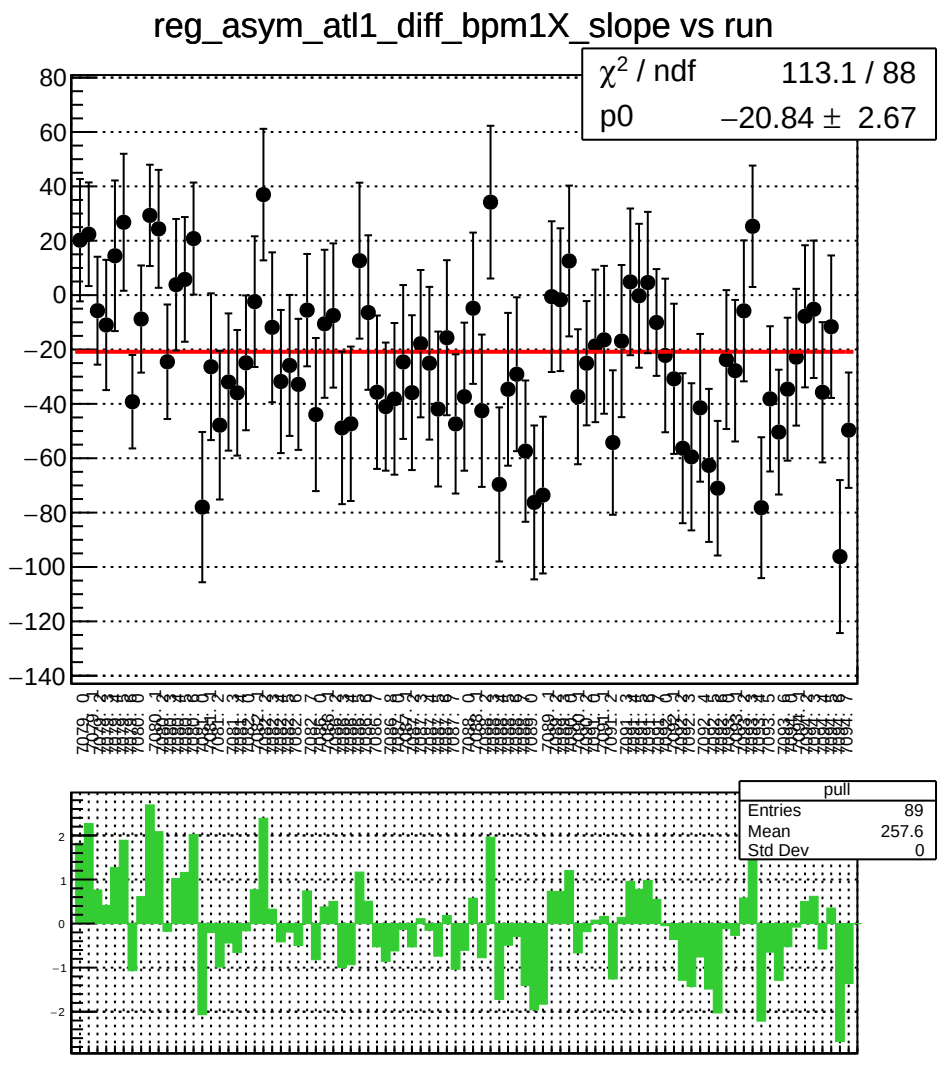

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 115.5 / 88
p0 2.574 ± 0.471
pull
Entries 89
Mean 509.1
Std Dev 0

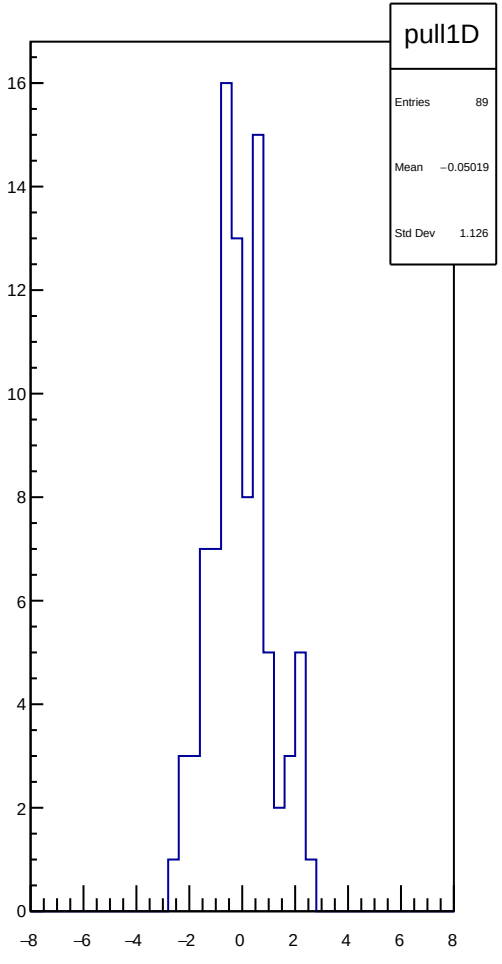

pull1D
Entries 89
Mean −0.02504
Std Dev 1.139

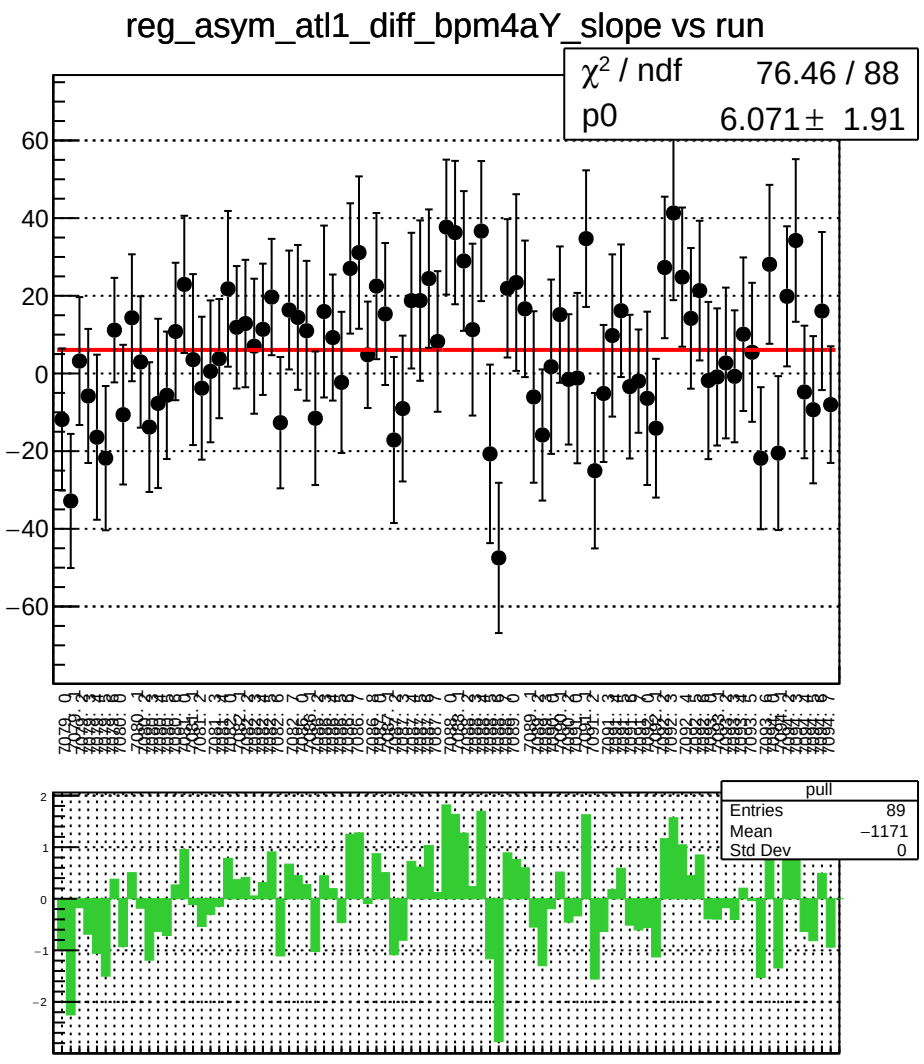

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 257.2 / 88
p0 −43.47 ± 0.6375
pull
Entries 89
Mean 128.7
Std Dev 0
pull1D
Entries 89
Mean −0.1725
Std Dev 1.691

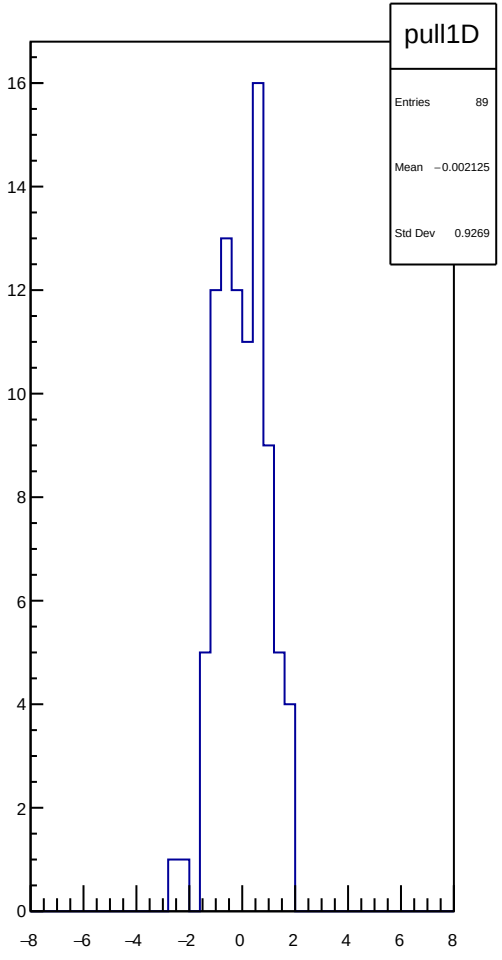

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 108.8 / 88
p0 32.99 ± 0.4951
pull
Entries 89
Mean 391.5
Std Dev 0
pull1D
Entries 89
Mean 0.03228
Std Dev 1.105

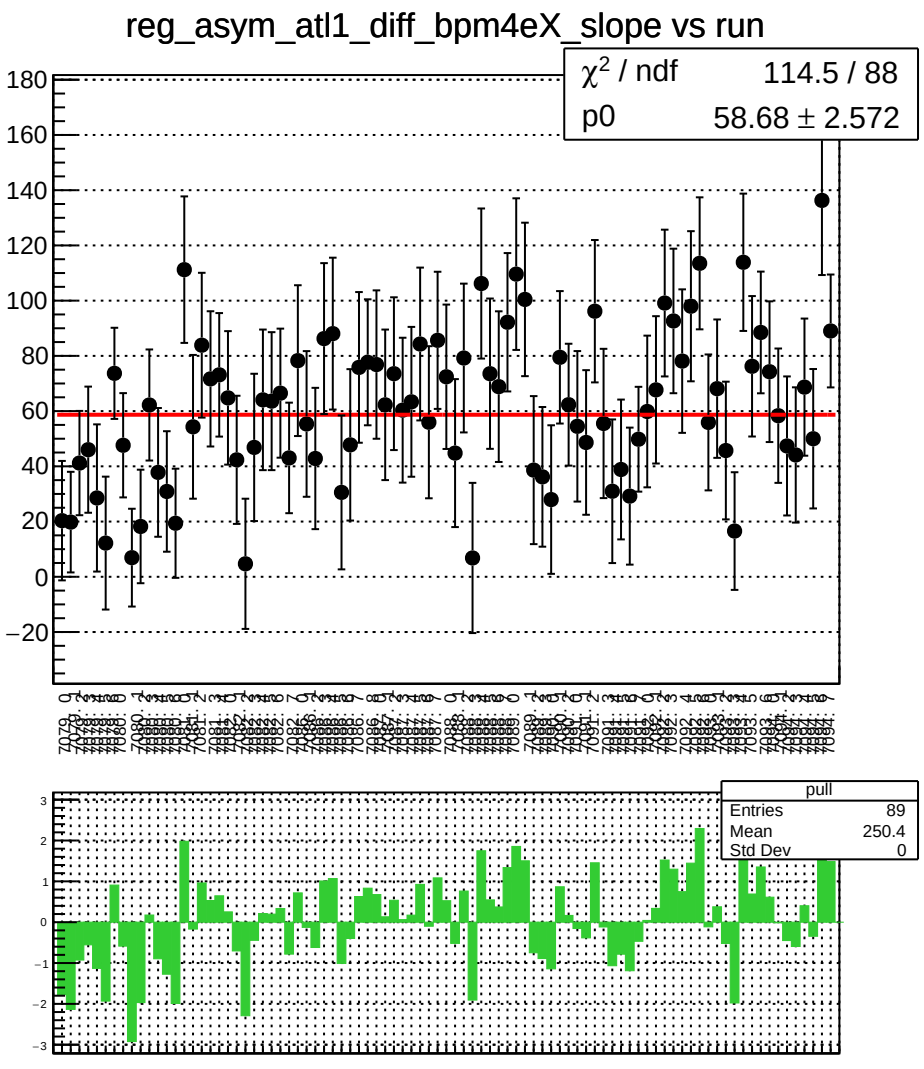

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 12.39 / 88
p0 0.1462 ± 0.02311
pull
Entries 89
Mean 449.3
Std Dev 0
pull1D
Entries 89
Mean 0.001313
Std Dev 0.3732

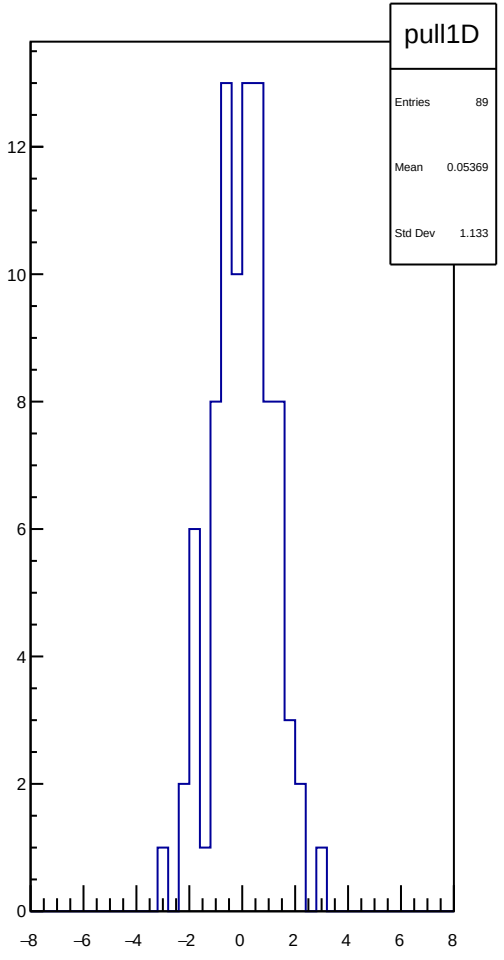

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 113.1 / 88
p0 −20.84 ± 2.67
pull
Entries 89
Mean 257.6
Std Dev 0

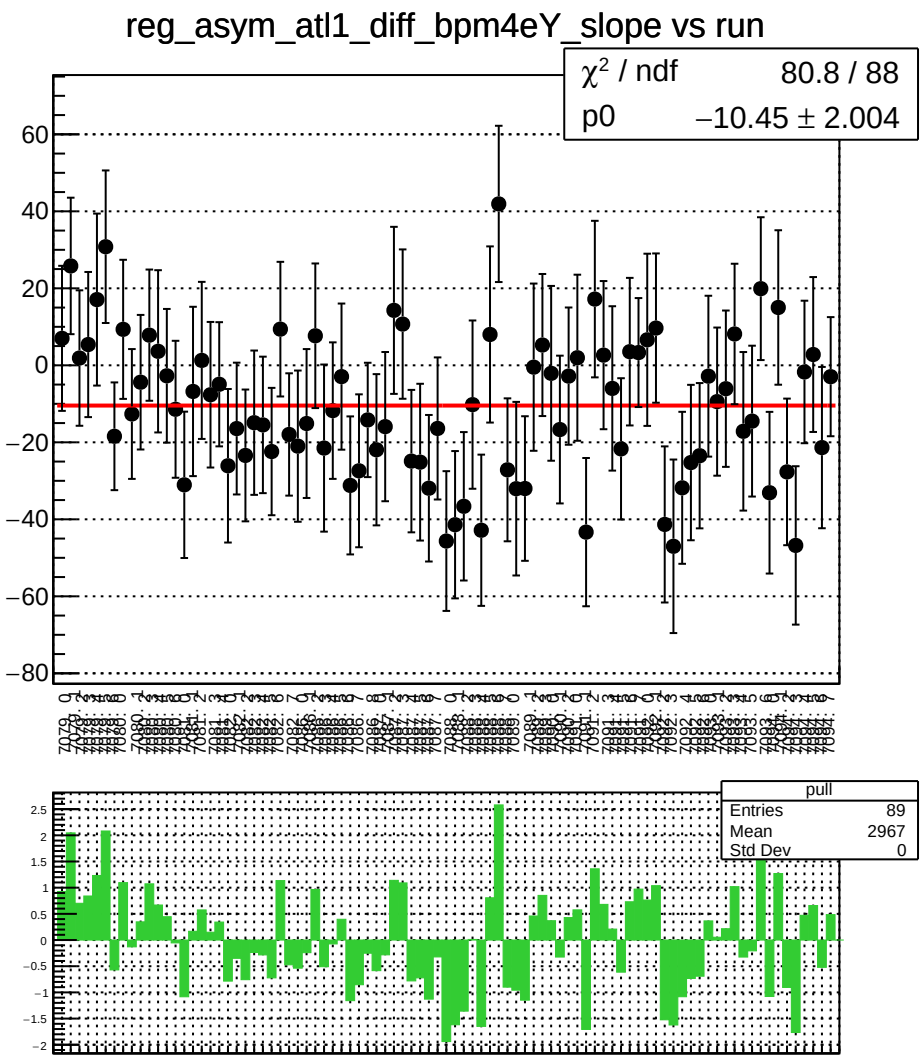

pull1D
Entries 89
Mean −0.05019
Std Dev 1.126

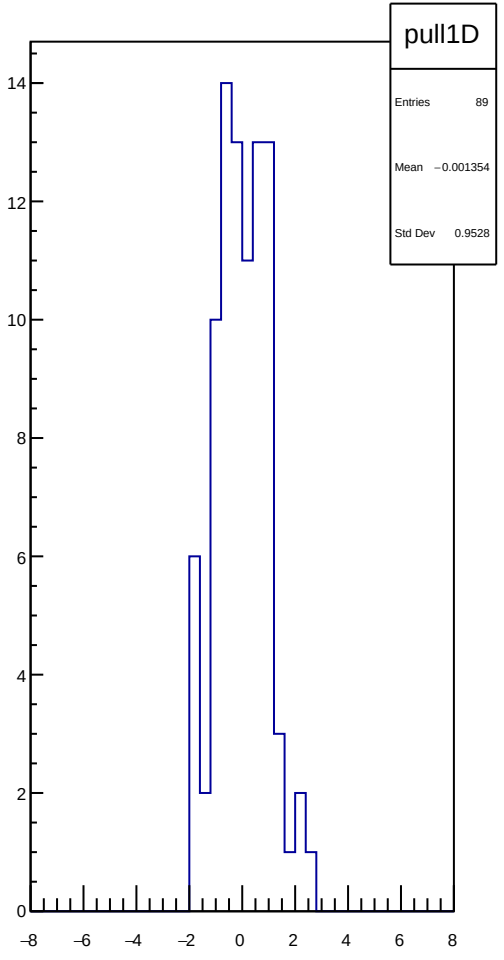

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 76.46 / 88
p0 6.071 ± 1.91
pull
Entries 89
Mean −1171
Std Dev 0

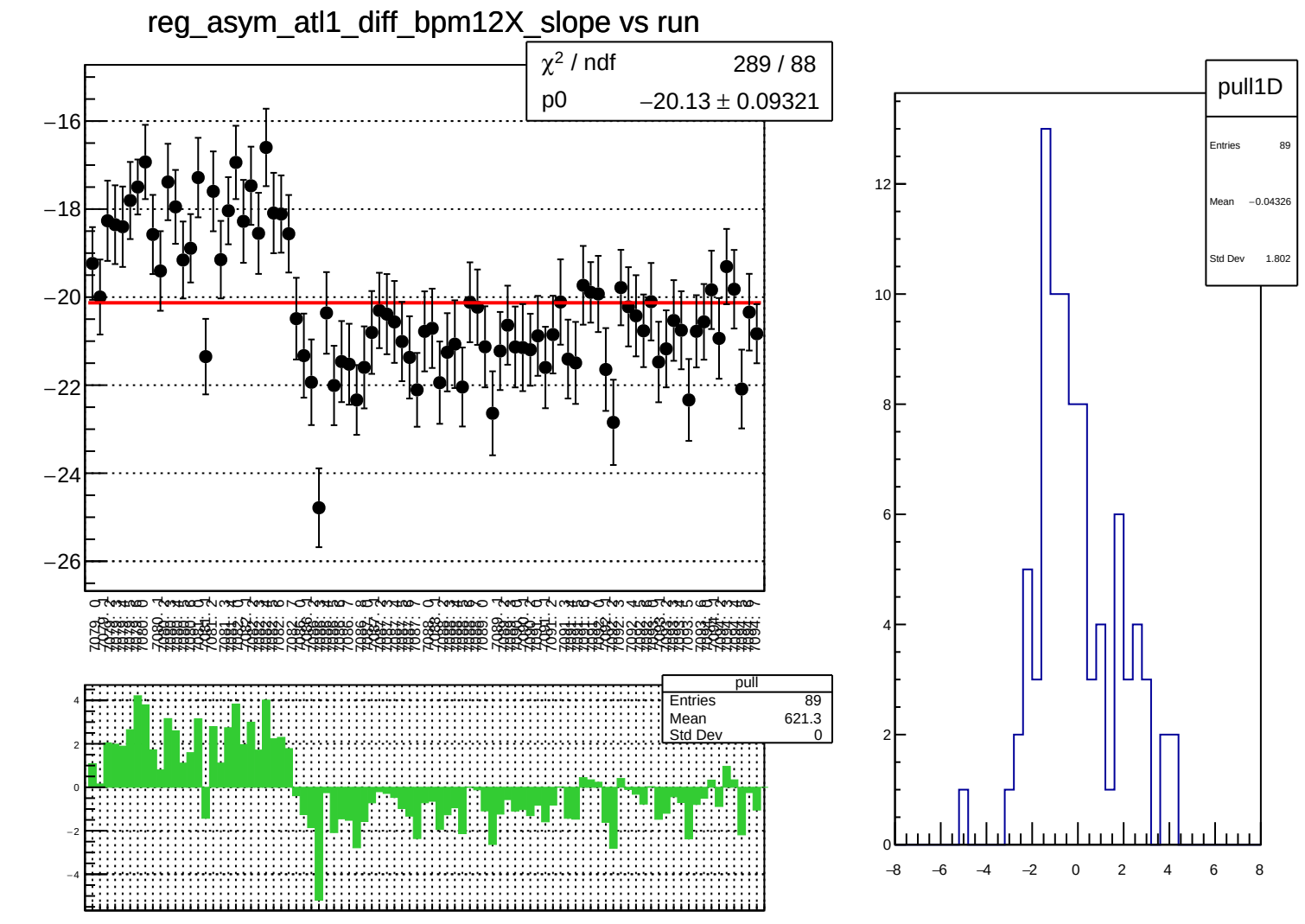

pull1D
Entries 89
Mean −0.002125
Std Dev 0.9269

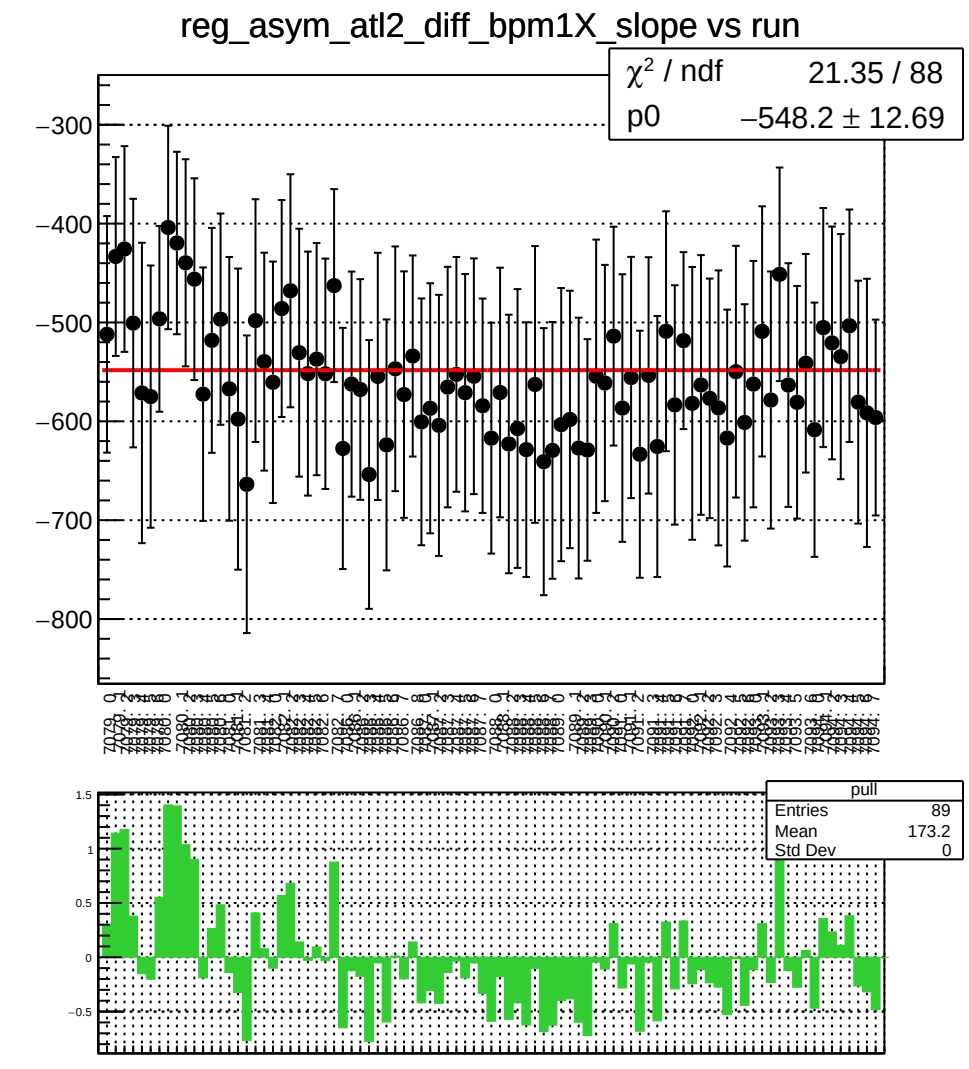

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 114.5 / 88
p0 58.68 ± 2.572
pull
Entries 89
Mean 250.4
Std Dev 0

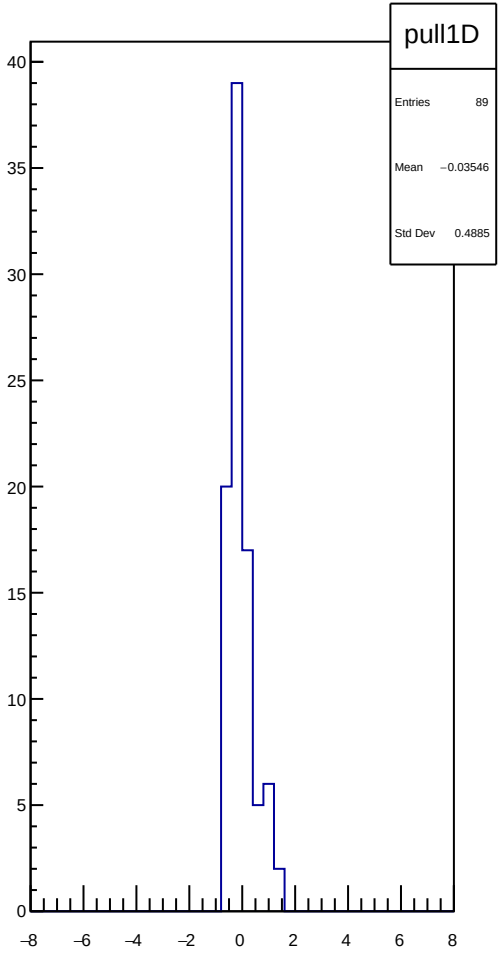

pull1D
Entries 89
Mean 0.05369
Std Dev 1.133

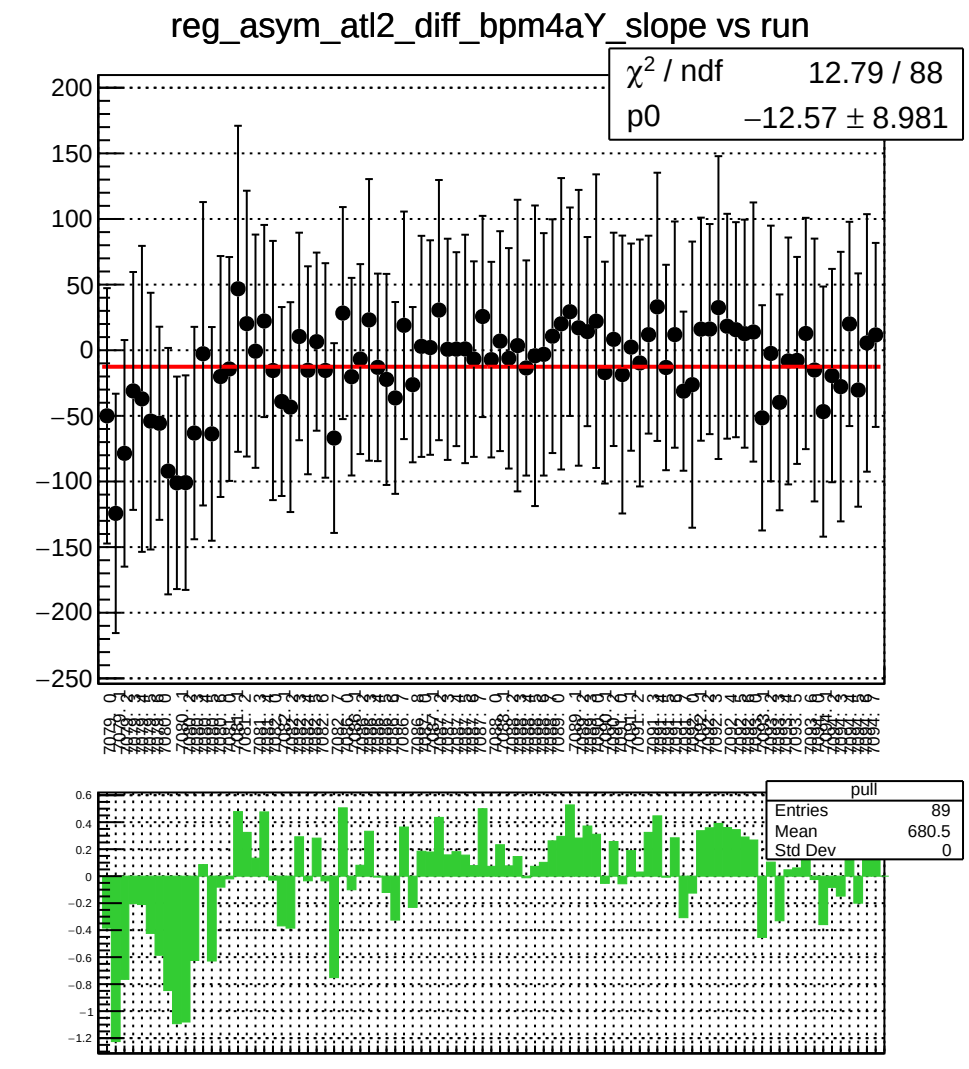

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 80.8 / 88
p0 −10.45 ± 2.004
pull
Entries 89
Mean 2967
Std Dev 0

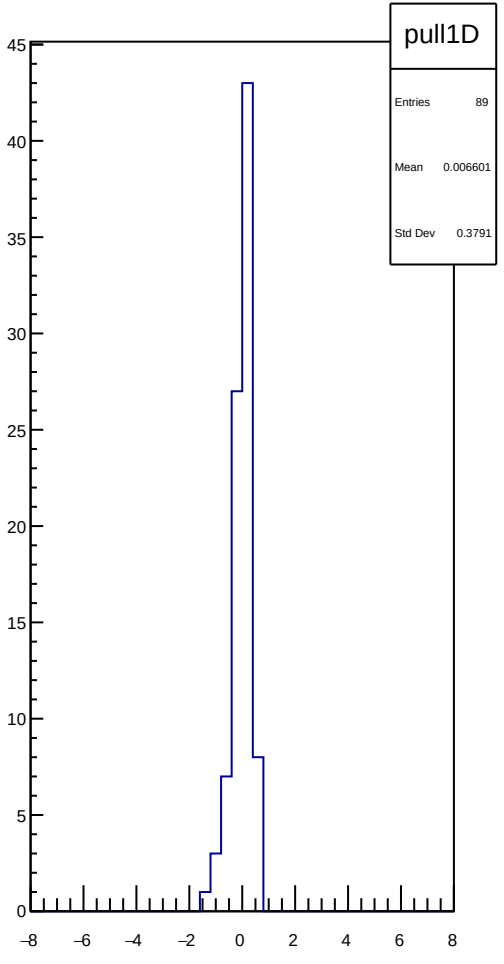

pull1D
Entries 89
Mean −0.001354
Std Dev 0.9528

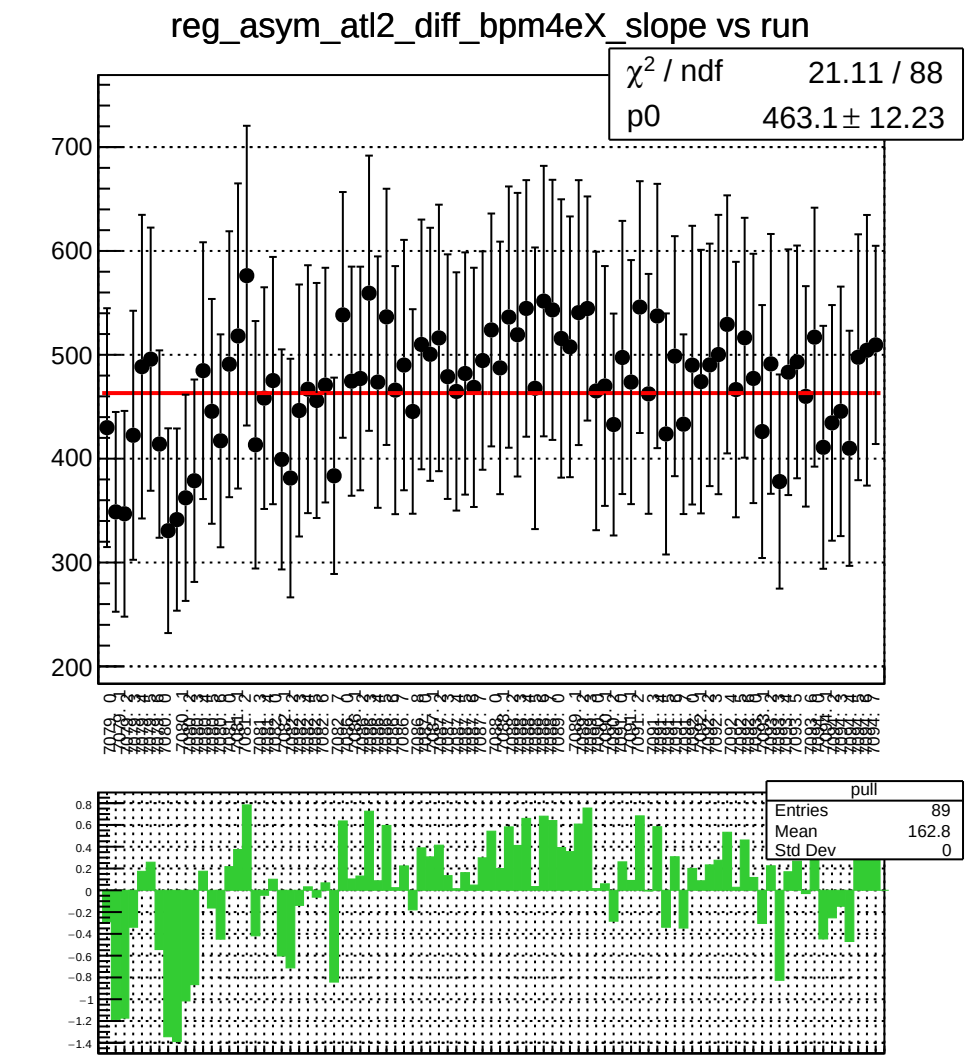

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 289 / 88
p0 −20.13 ± 0.09321
−16
−18
−20
−22
−24
−26
pull
Entries 89
Mean 621.3
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 89
Mean −0.04326
Std Dev 1.802
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

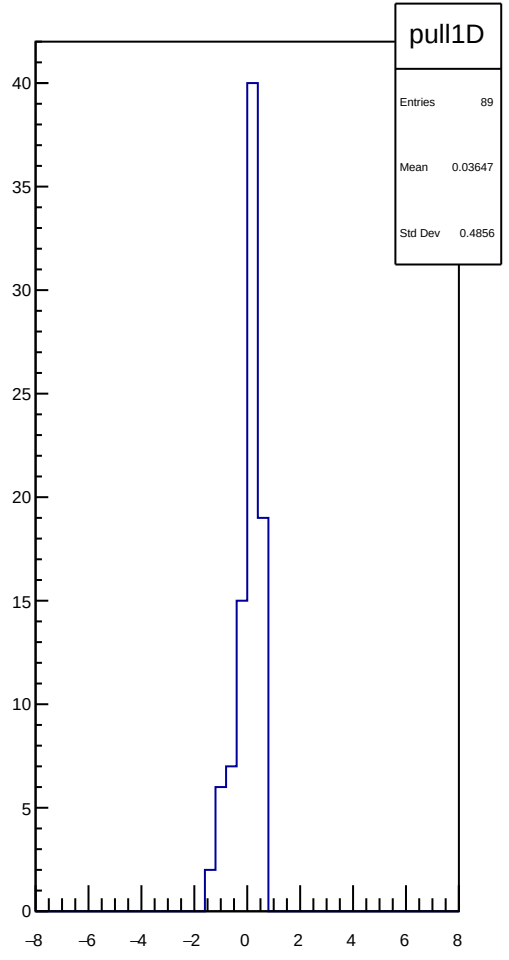

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 21.35 / 88
p0 −548.2 ± 12.69
−300
−400
−500
−600
−700
−800
pull
Entries 89
Mean 173.2
Std Dev 0
1.5
1
0.5
0
−0.5

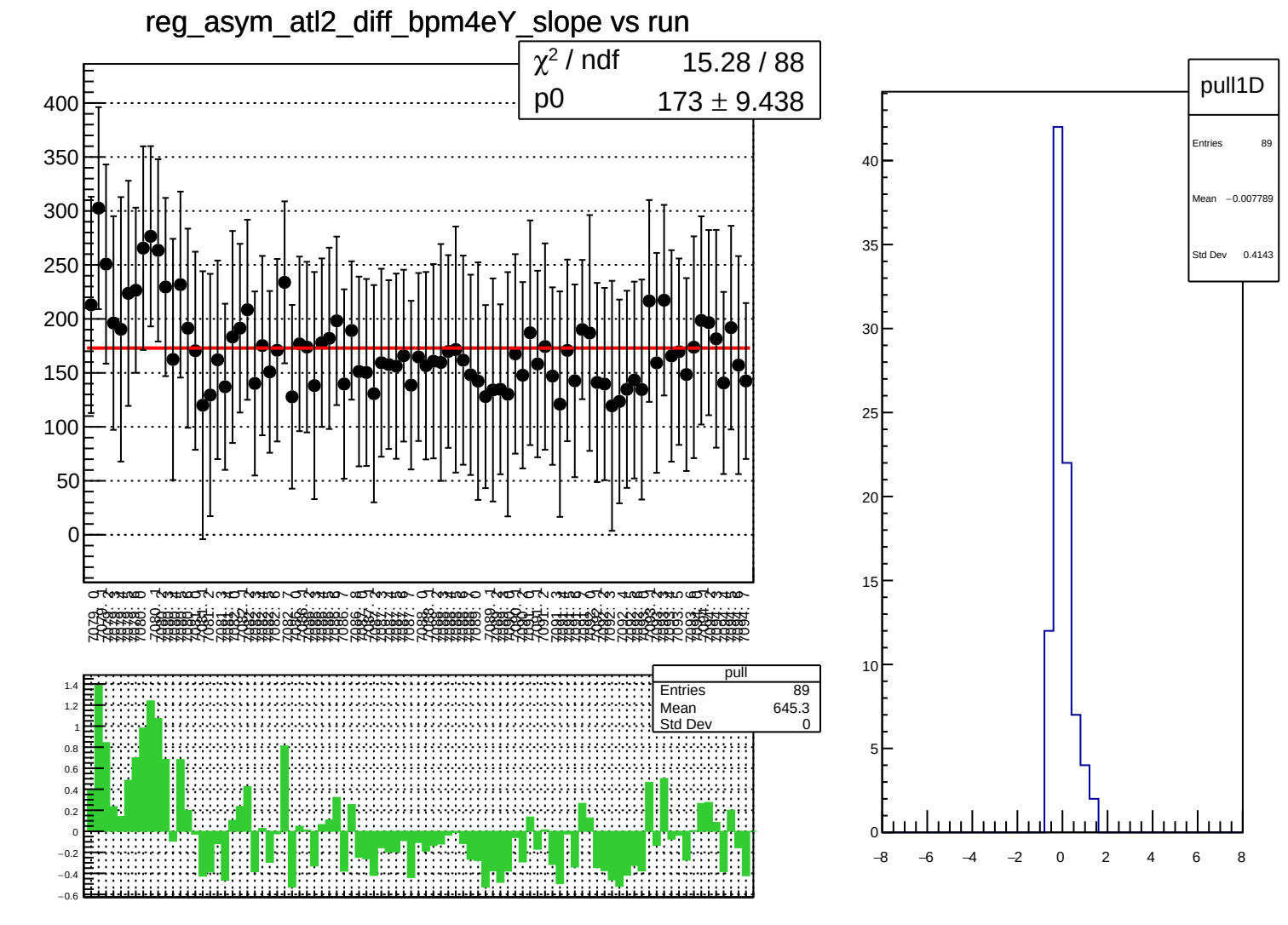

pull1D
Entries 89
Mean −0.03546
Std Dev 0.4885
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

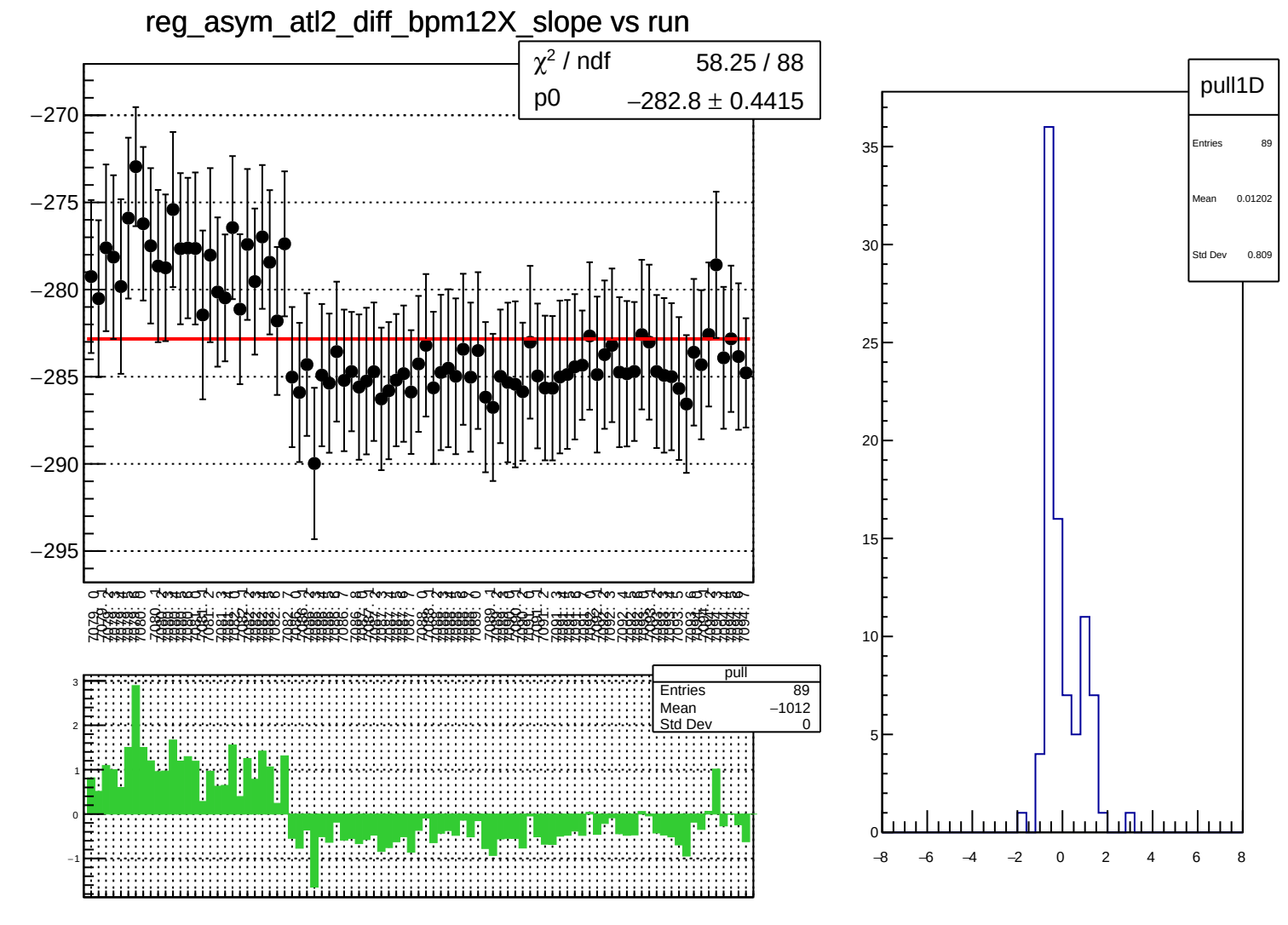

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 12.79 / 88
p0 −12.57 ± 8.981
pull
Entries 89
Mean 680.5
Std Dev 0

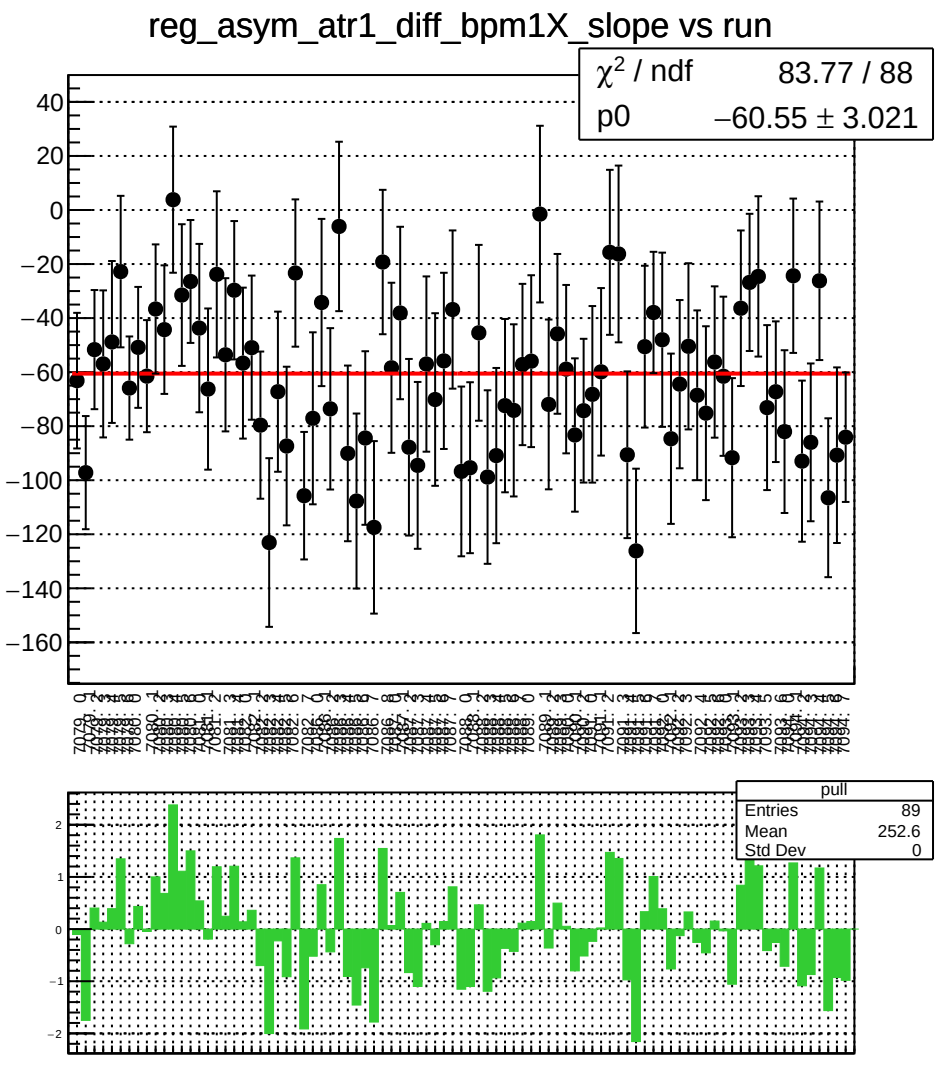

pull1D
Entries 89
Mean 0.006601
Std Dev 0.3791

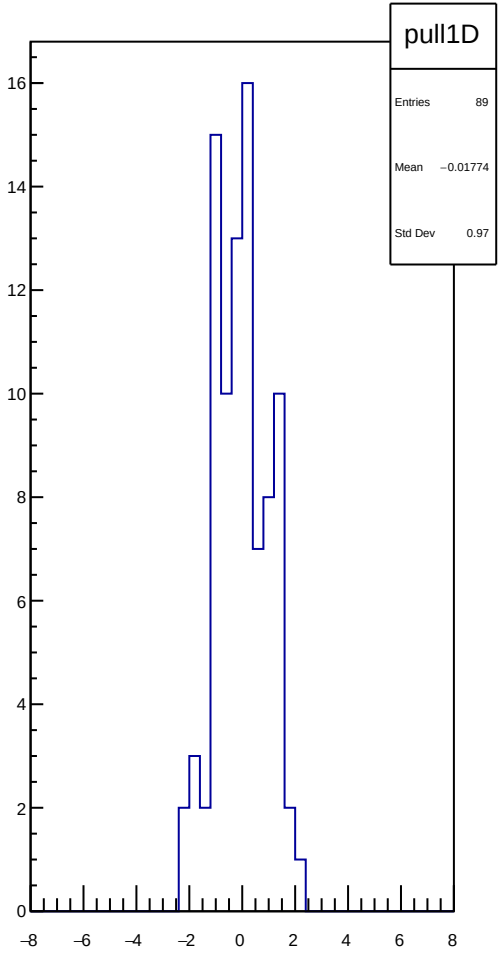

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 21.11 / 88
p0 463.1 ± 12.23
pull
Entries 89
Mean 162.8
Std Dev 0

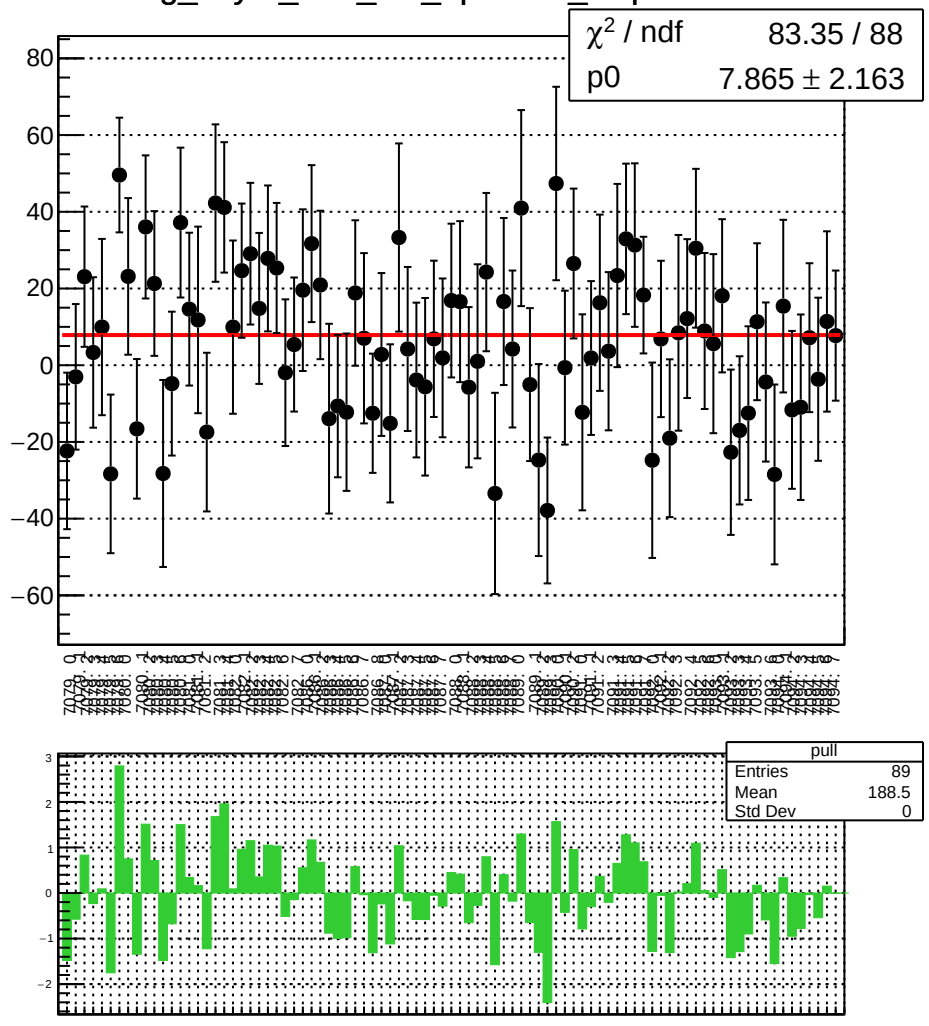

pull1D
Entries 89
Mean 0.03647
Std Dev 0.4856

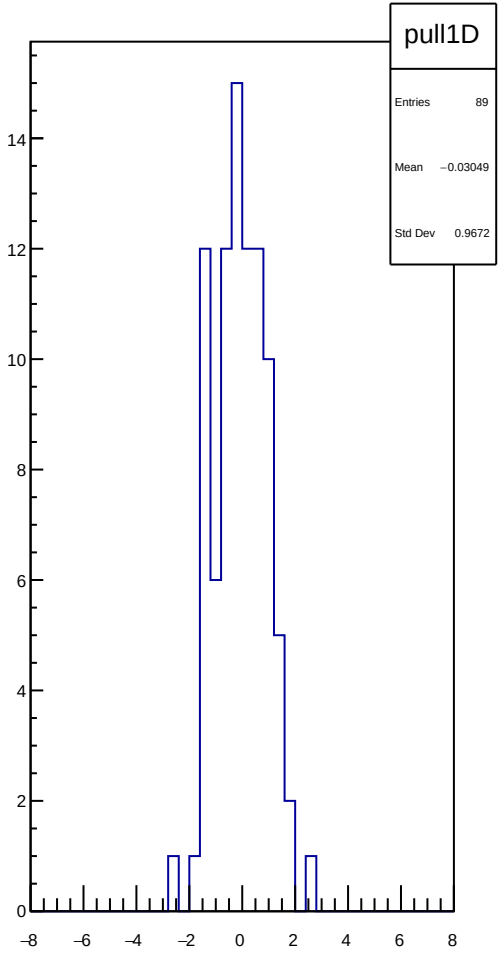

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 15.28 / 88
p0 173 ± 9.438
pull
Entries 89
Mean 645.3
Std Dev 0
pull1D
Entries 89
Mean −0.007789
Std Dev 0.4143

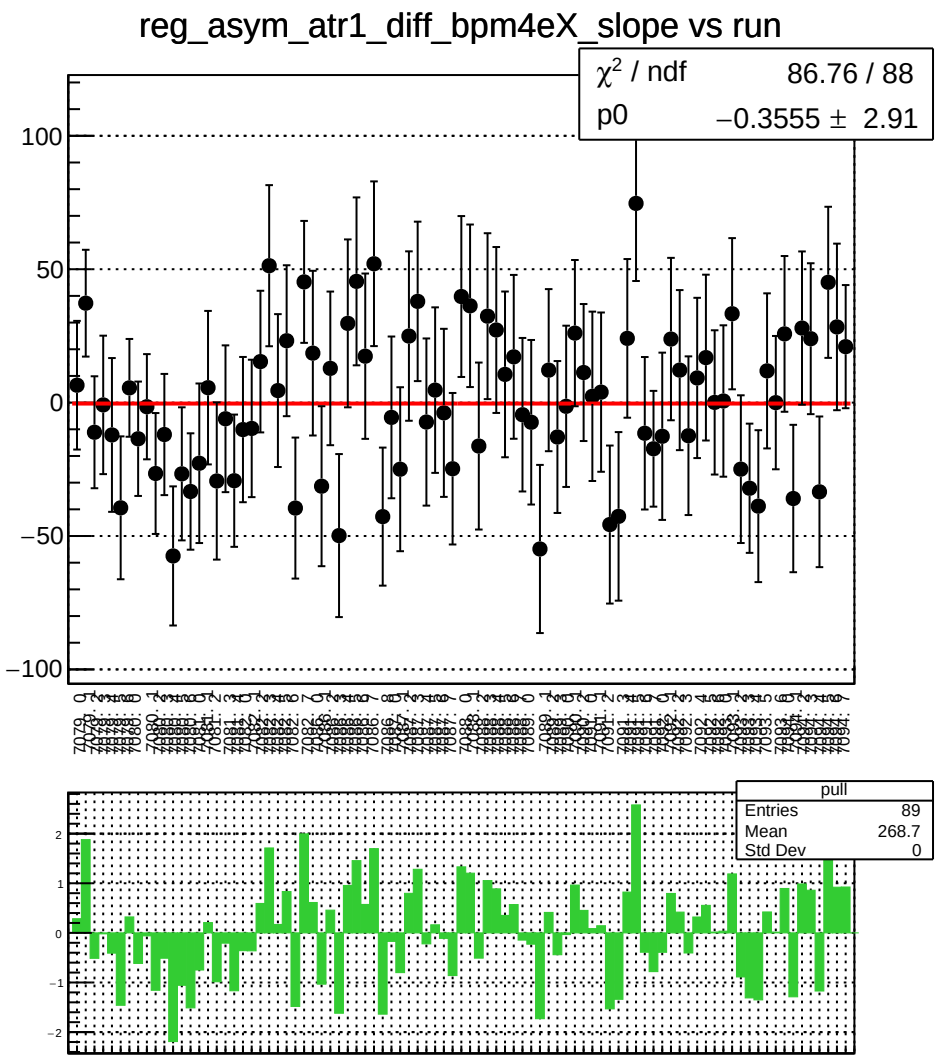

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 58.25 / 88
p0 −282.8 ± 0.4415
−270
−275
−280
−285
−290
−295
pull
Entries 89
Mean −1012
Std Dev 0
3
2
1
0
−1
pull1D
Entries 89
Mean 0.01202
Std Dev 0.809
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

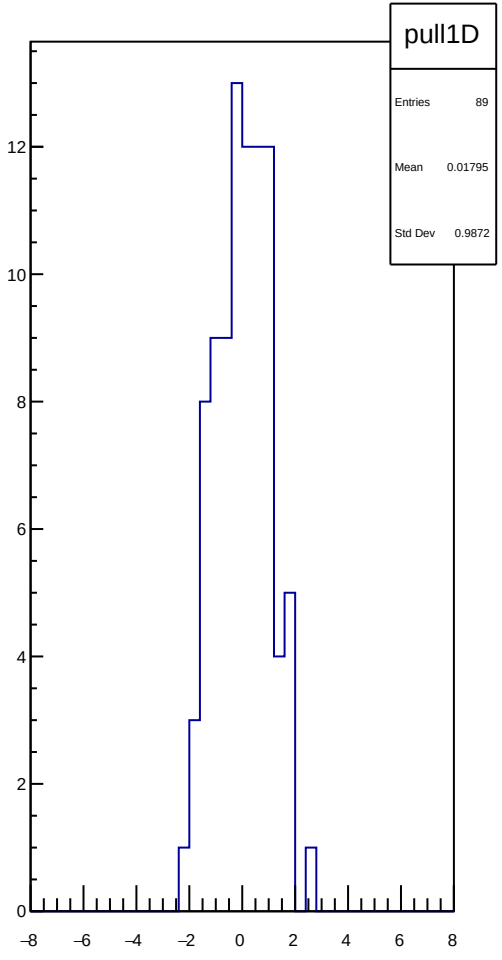

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 83.77 / 88
p0 −60.55 ± 3.021
pull
Entries 89
Mean 252.6
Std Dev 0

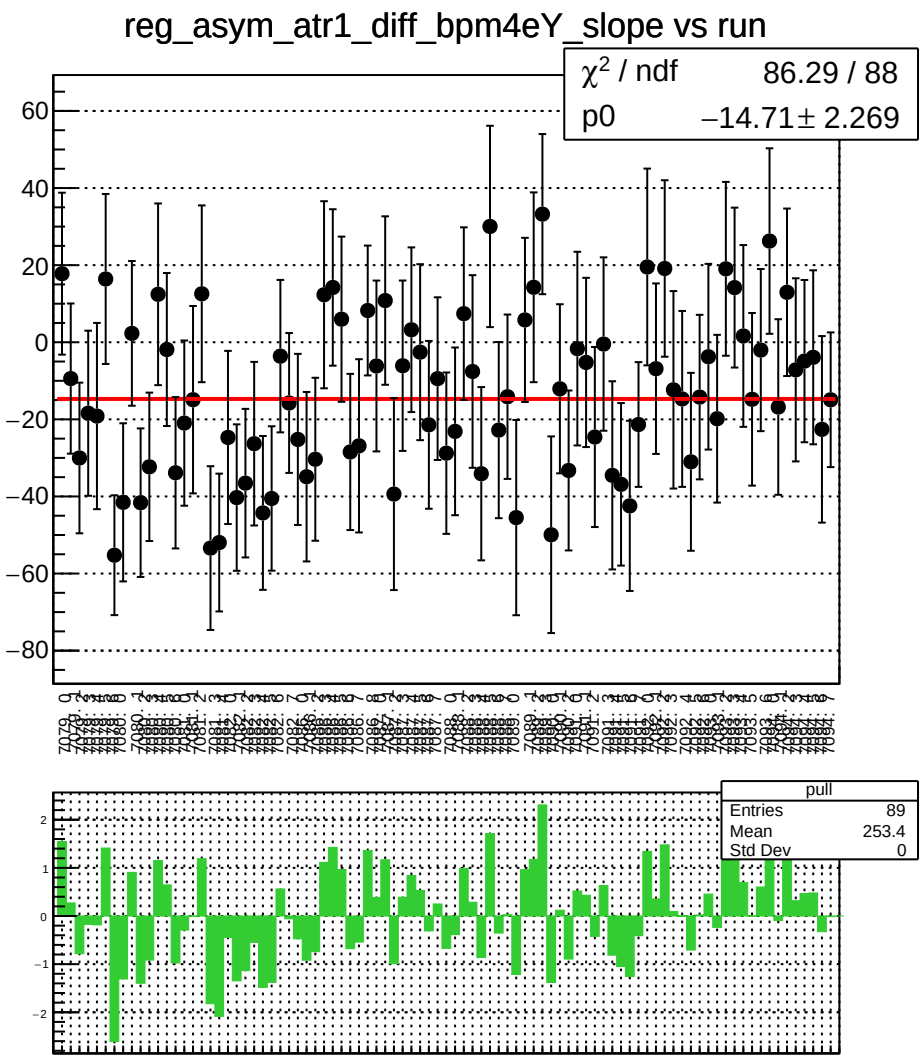

pull1D
Entries 89
Mean −0.01774
Std Dev 0.97

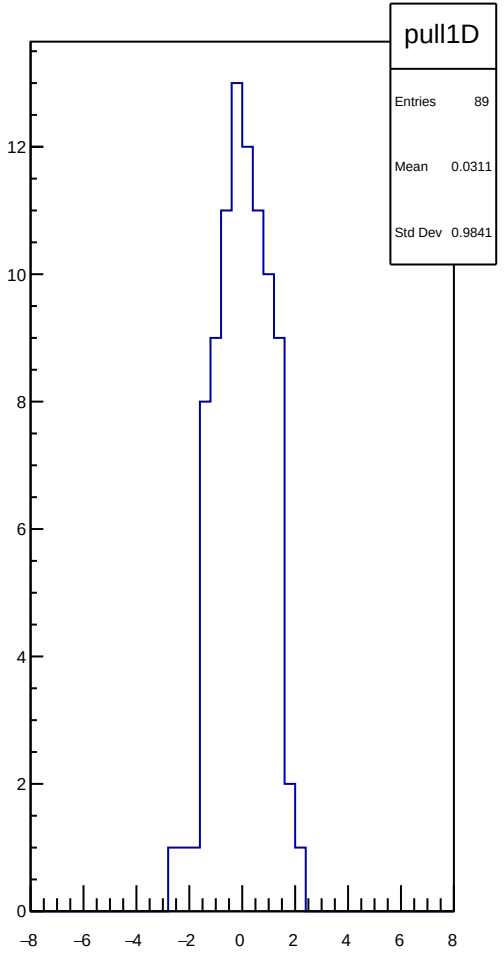

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 83.35 / 88
p0 7.865 ± 2.163
pull
Entries 89
Mean 188.5
Std Dev 0

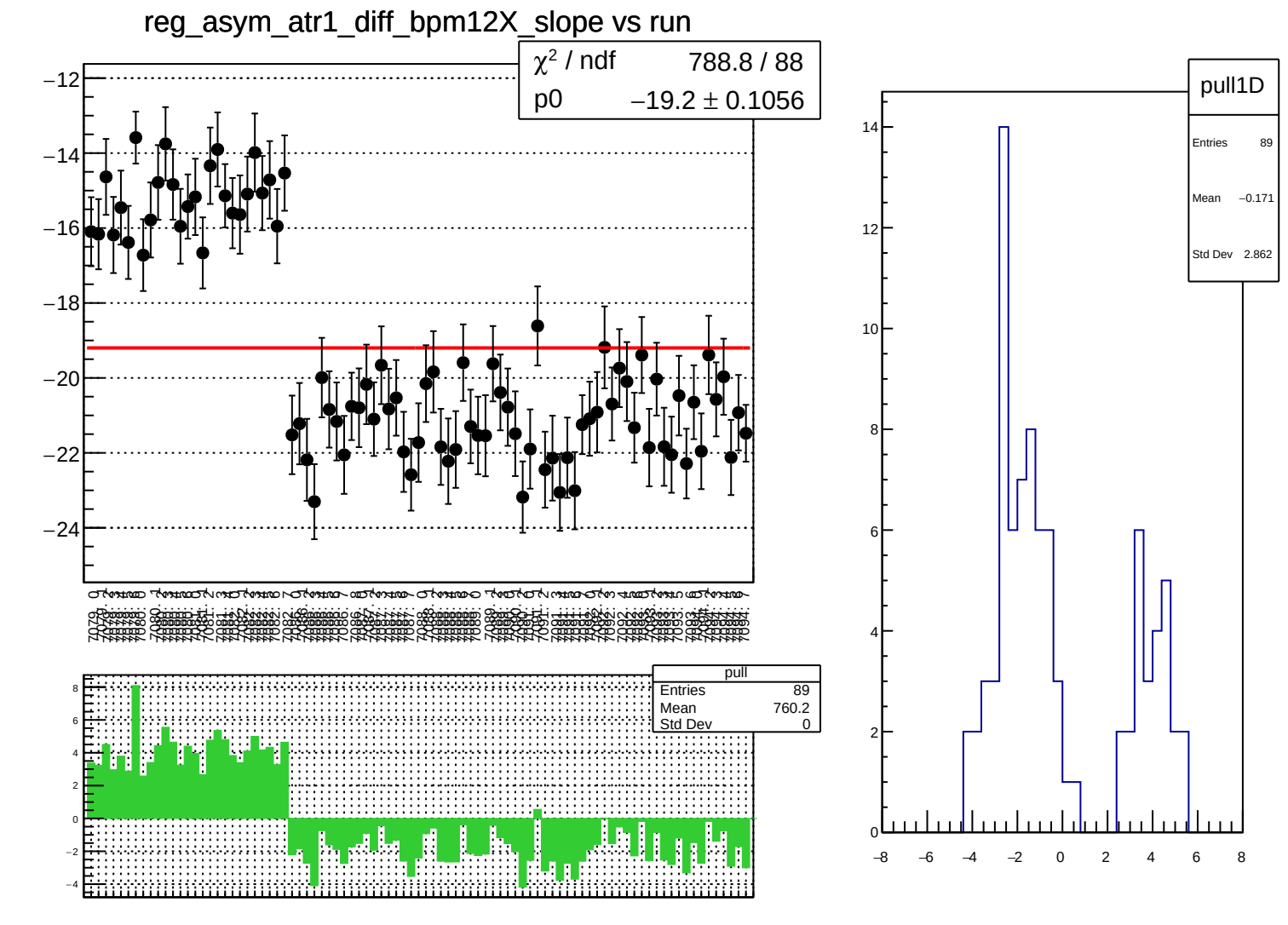

pull1D
Entries 89
Mean −0.03049
Std Dev 0.9672

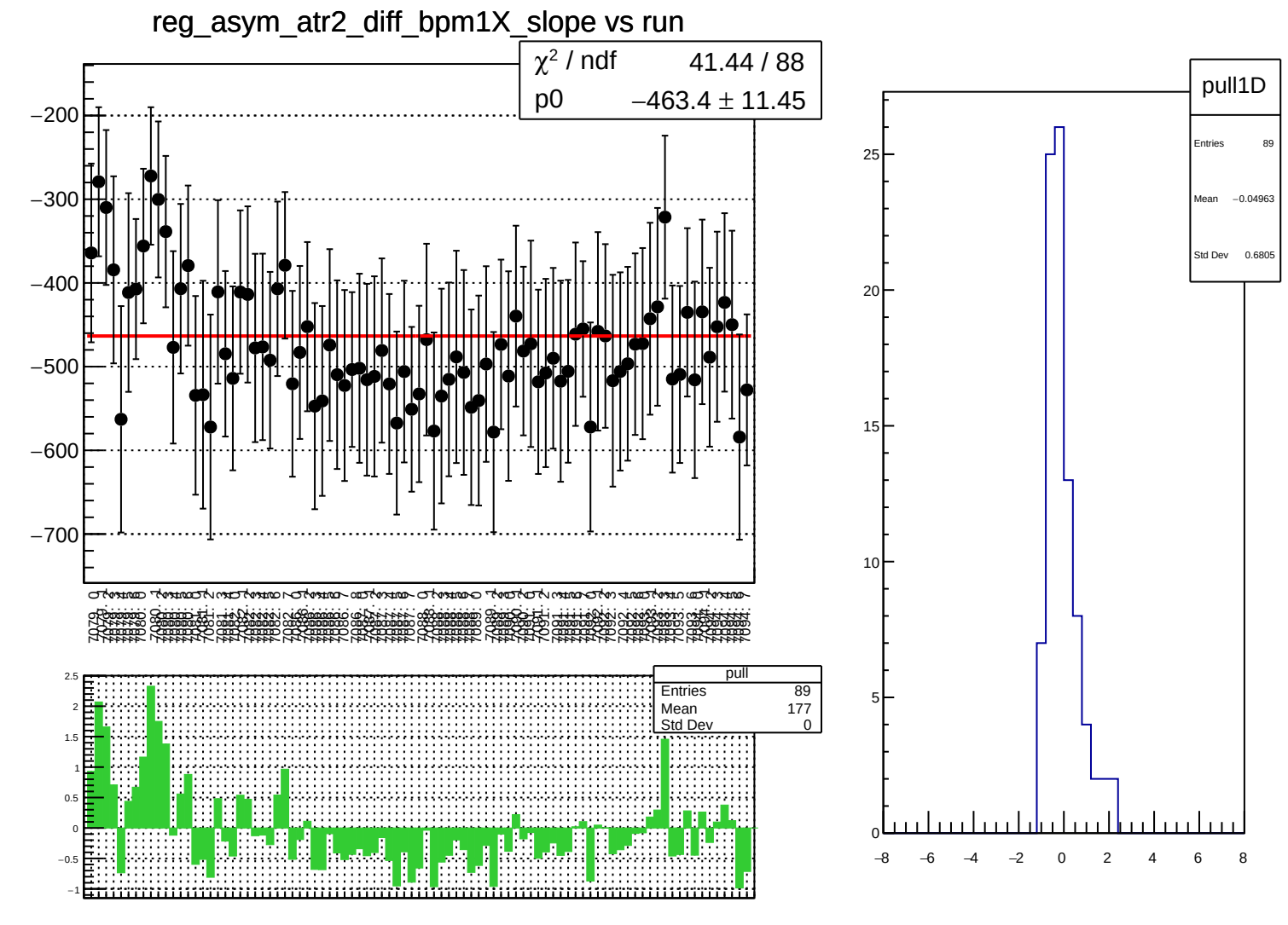

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 86.76 / 88
p0 −0.3555 ± 2.91
100
50
0
−50
−100
pull
Entries 89
Mean 268.7
Std Dev 0
2
1
0
−1
−2

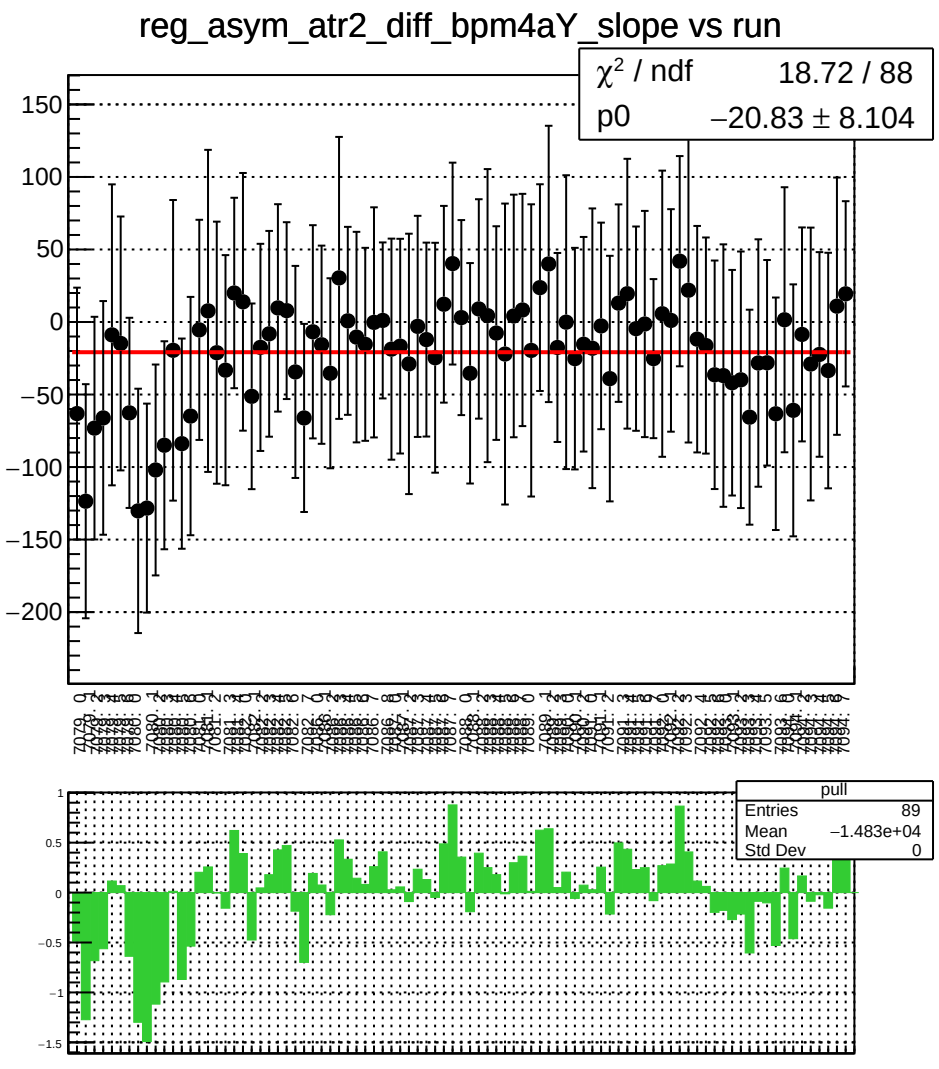

pull1D
Entries 89
Mean 0.01795
Std Dev 0.9872
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

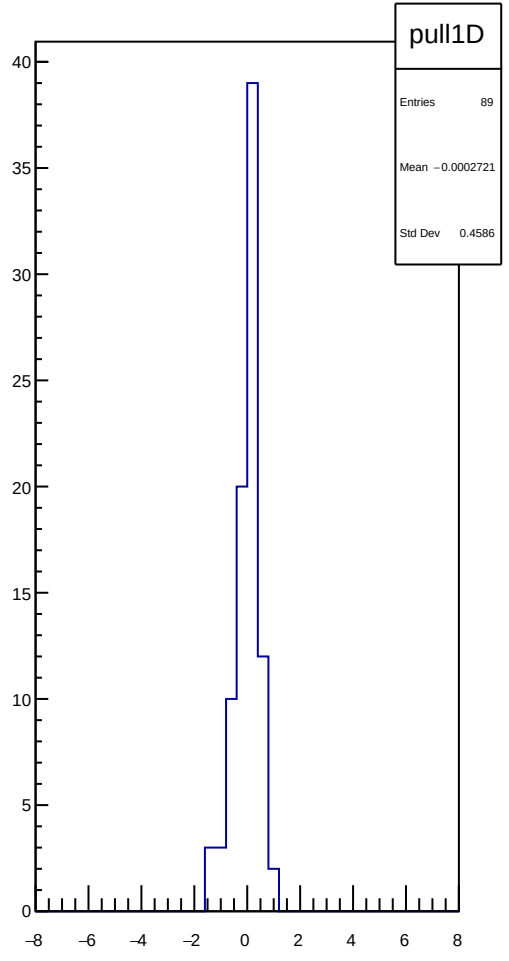

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 86.29 / 88
p0 −14.71± 2.269
pull
Entries 89
Mean 253.4
Std Dev 0

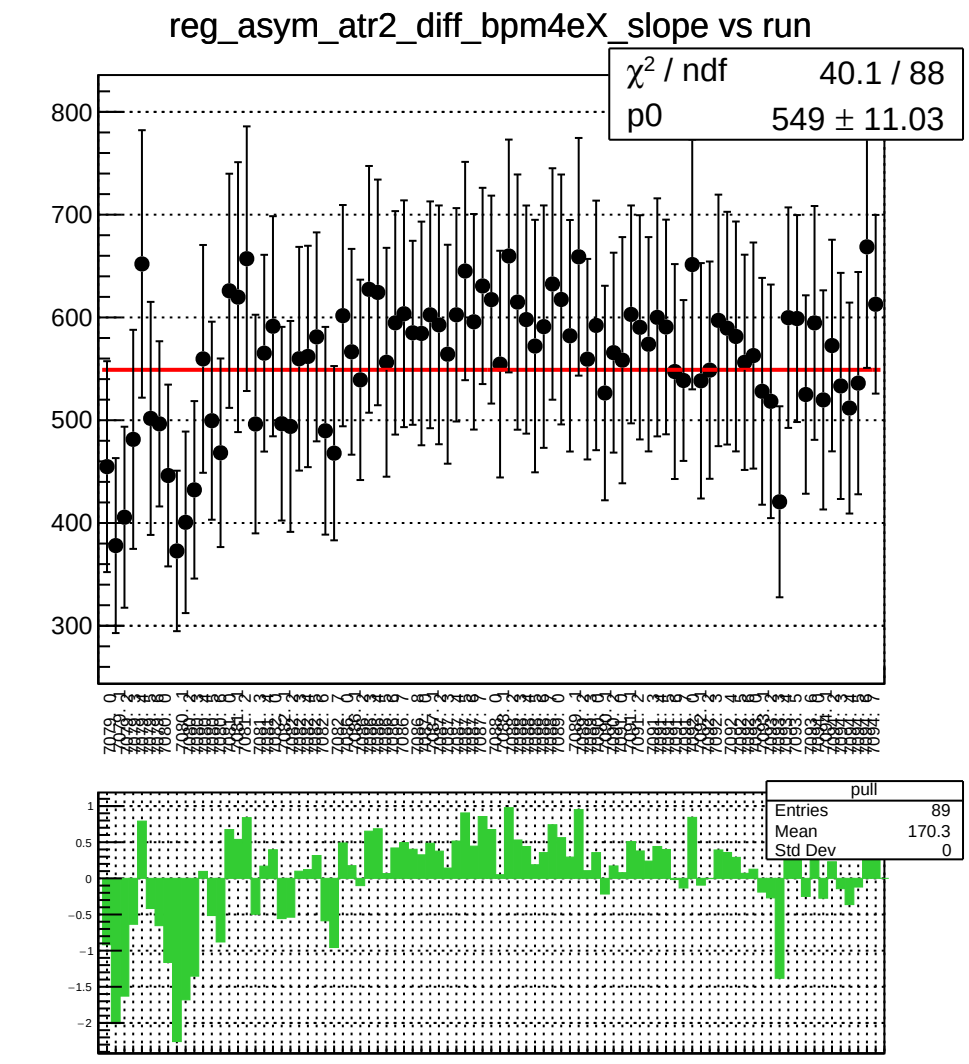

pull1D
Entries 89
Mean 0.0311
Std Dev 0.9841

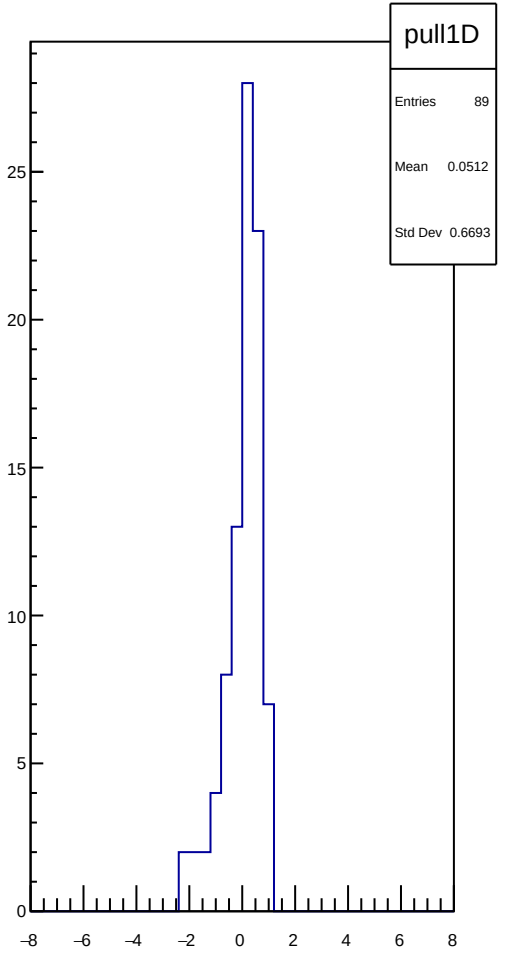

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 788.8 / 88
p0 −19.2 ± 0.1056
pull
Entries 89
Mean 760.2
Std Dev 0
pull1D
Entries 89
Mean −0.171
Std Dev 2.862

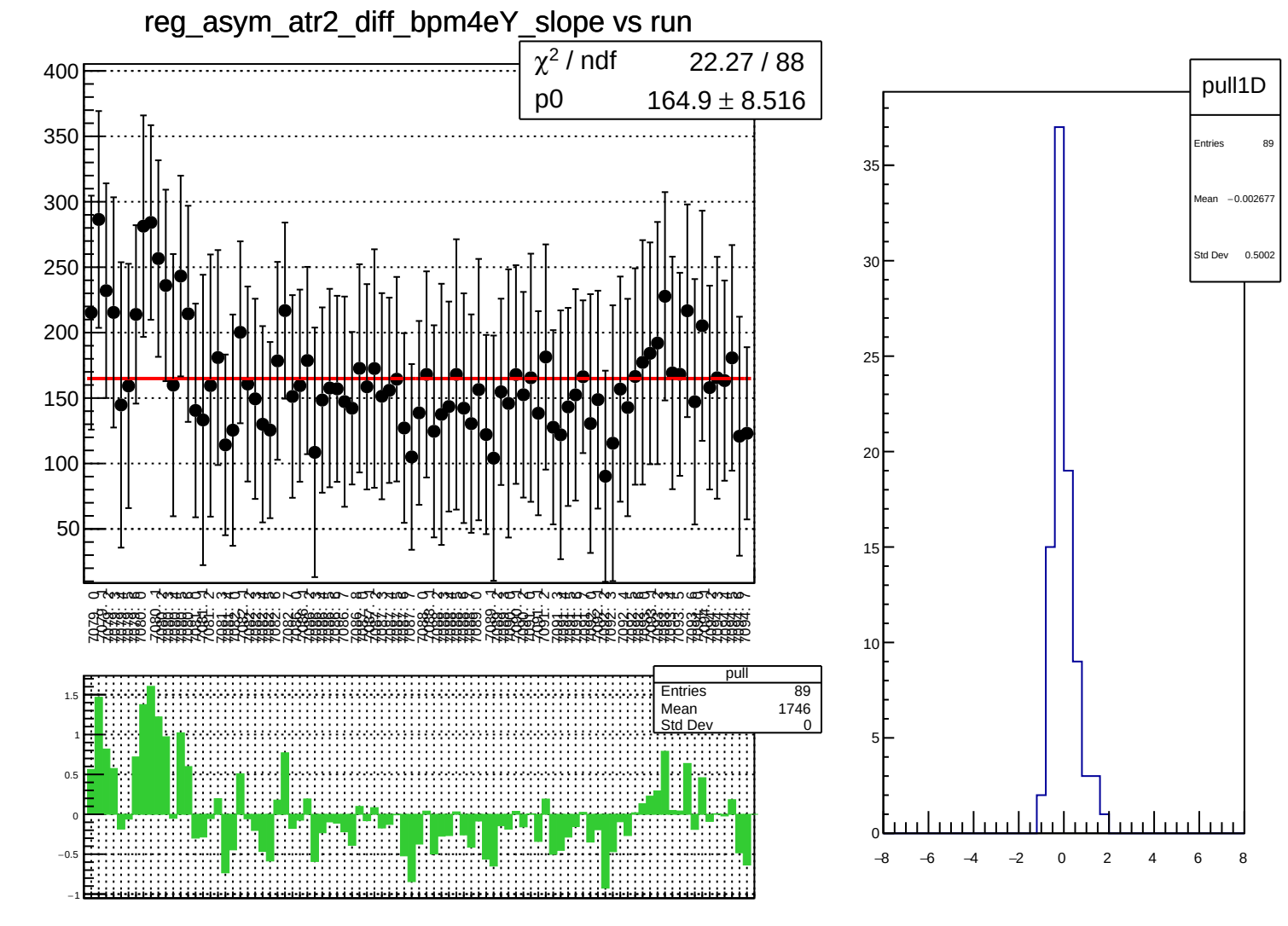

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 41.44 / 88
p0 −463.4 ± 11.45
−200
−300
−400
−500
−600
−700
pull
Entries 89
Mean 177
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.04963
Std Dev 0.6805
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

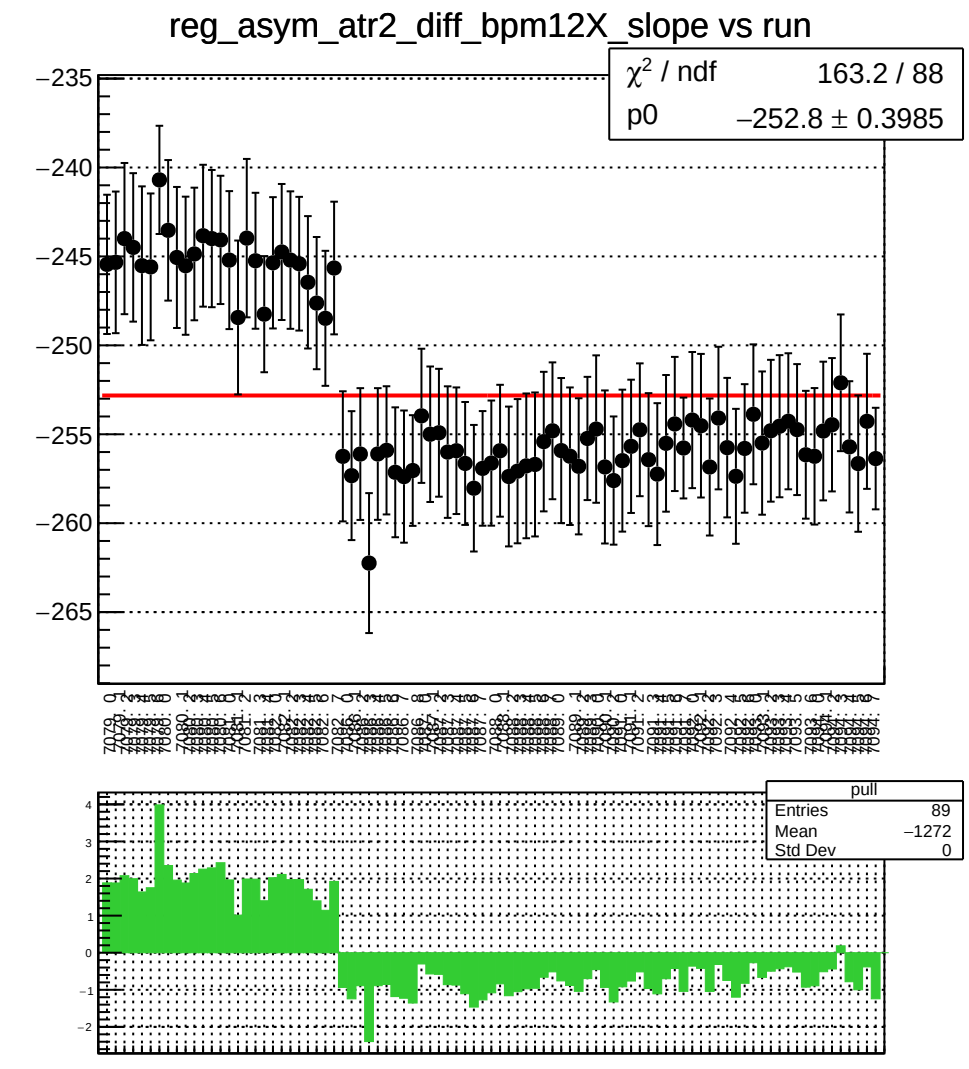

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 18.72 / 88
p0 −20.83 ± 8.104
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −1.483e+04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

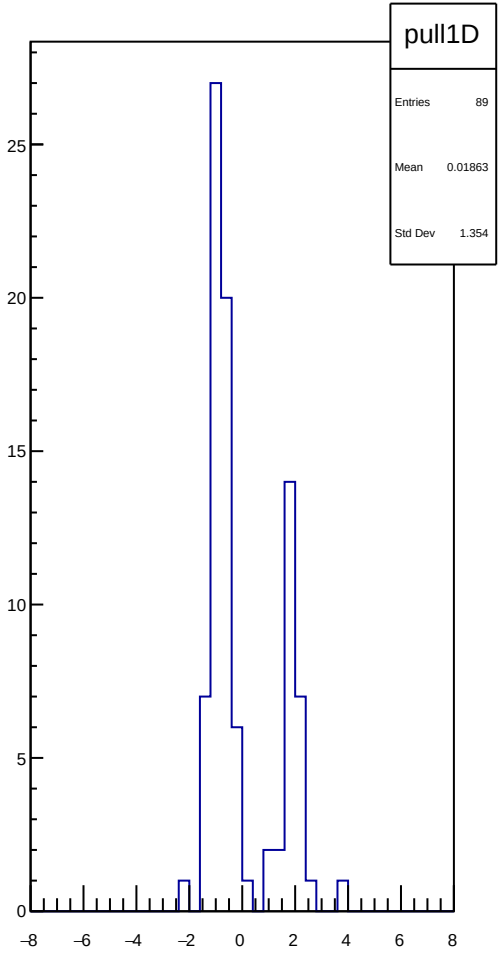

pull1D
Entries 89
Mean −0.0002721
Std Dev 0.4586
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

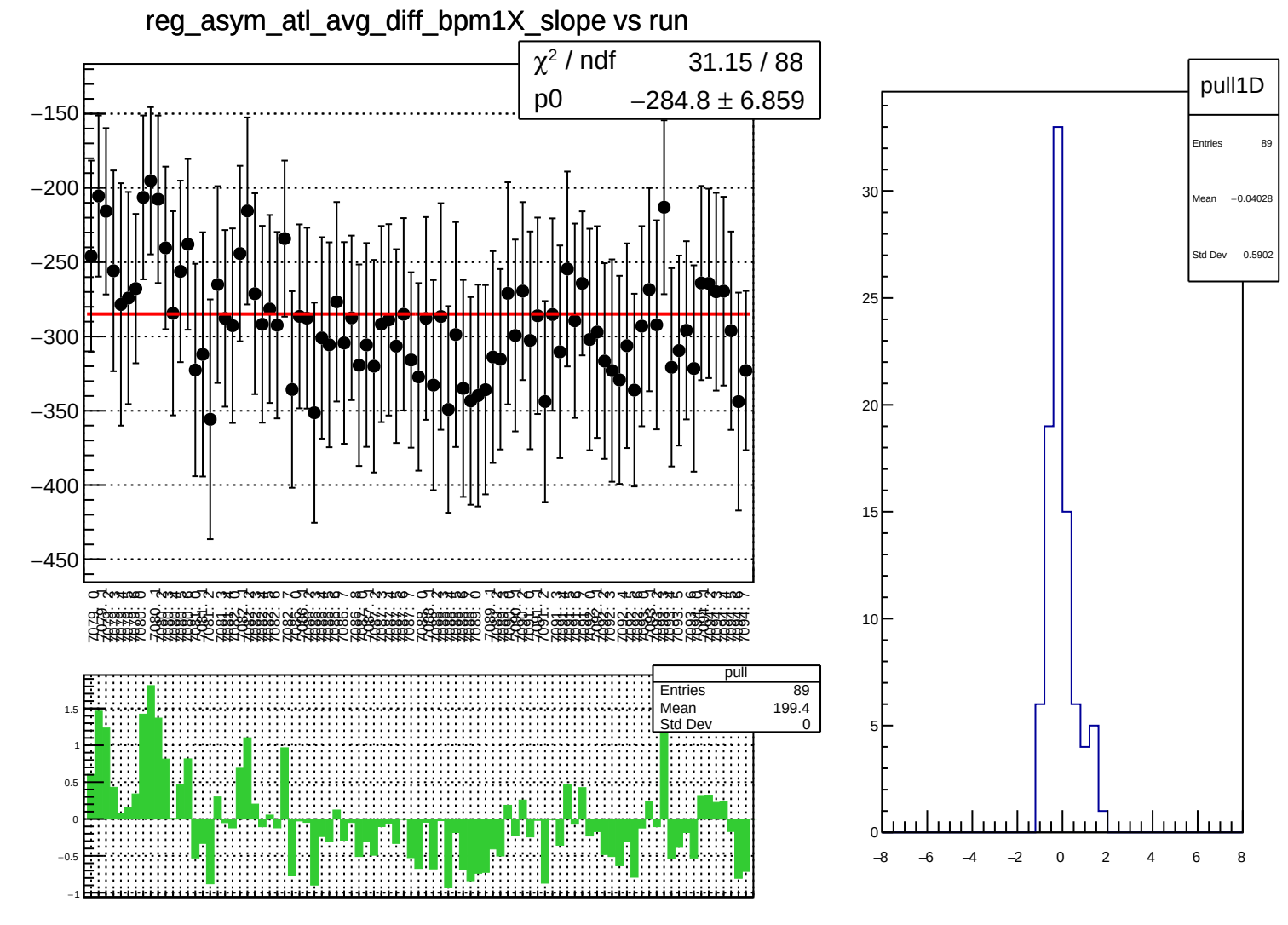

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 40.1 / 88
p0 549 ± 11.03
800
700
600
500
400
300
pull
Entries 89
Mean 170.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

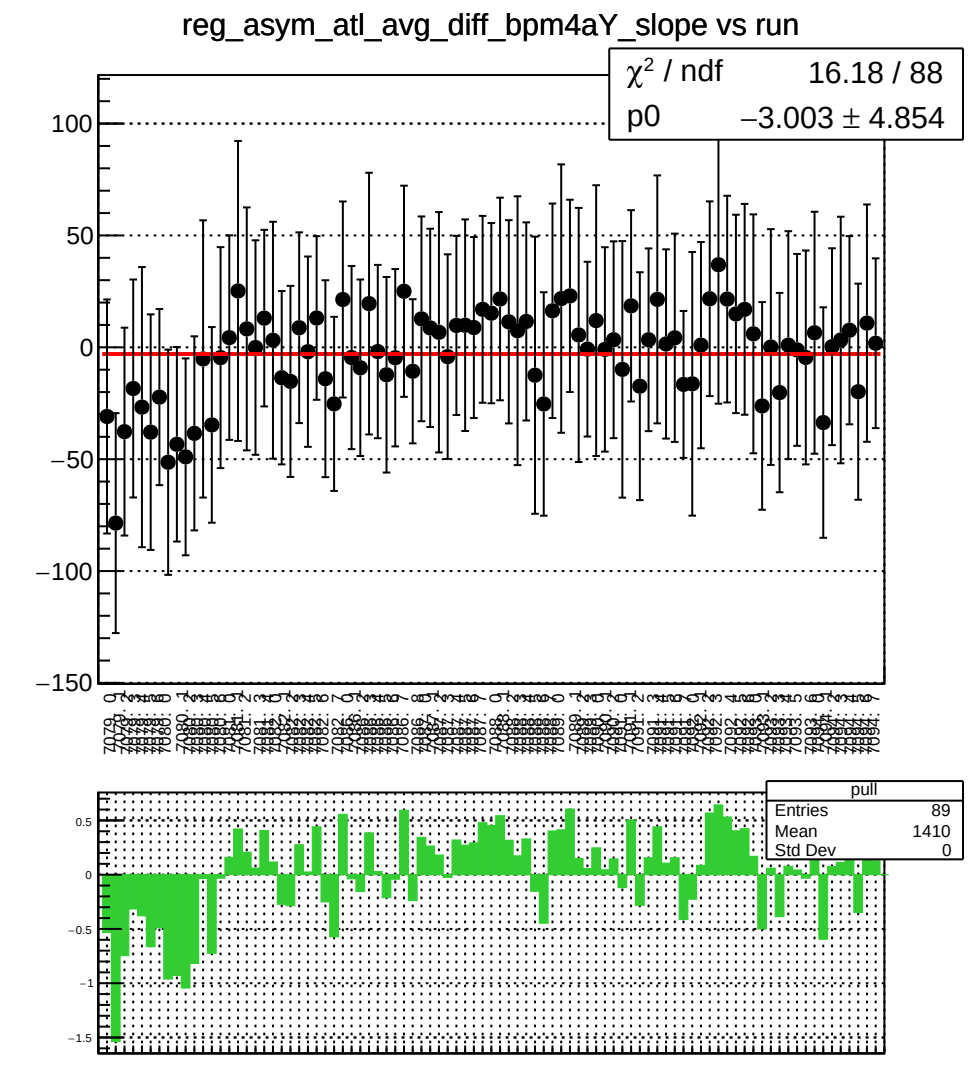

pull1D
Entries 89
Mean 0.0512
Std Dev 0.6693
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

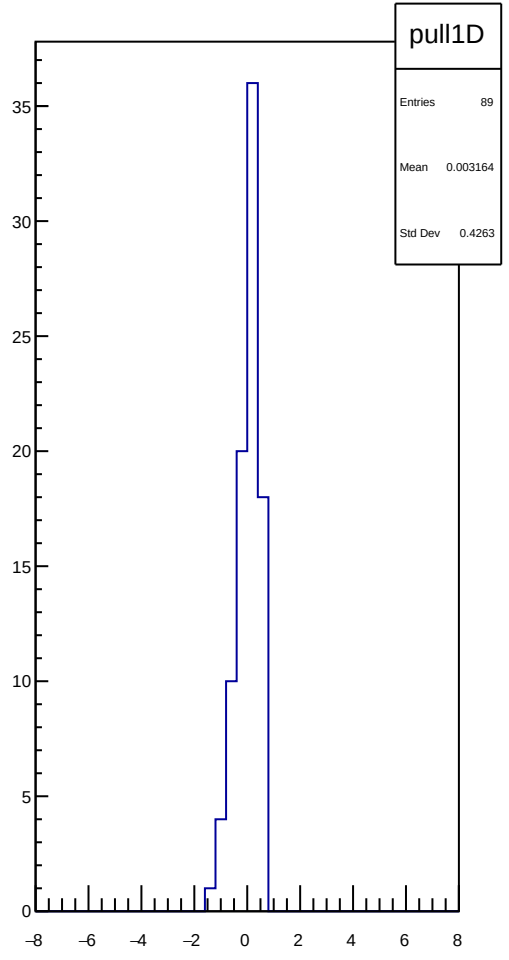

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 22.27 / 88
p0 164.9 ± 8.516
pull
Entries 89
Mean 1746
Std Dev 0
pull1D
Entries 89
Mean −0.002677
Std Dev 0.5002

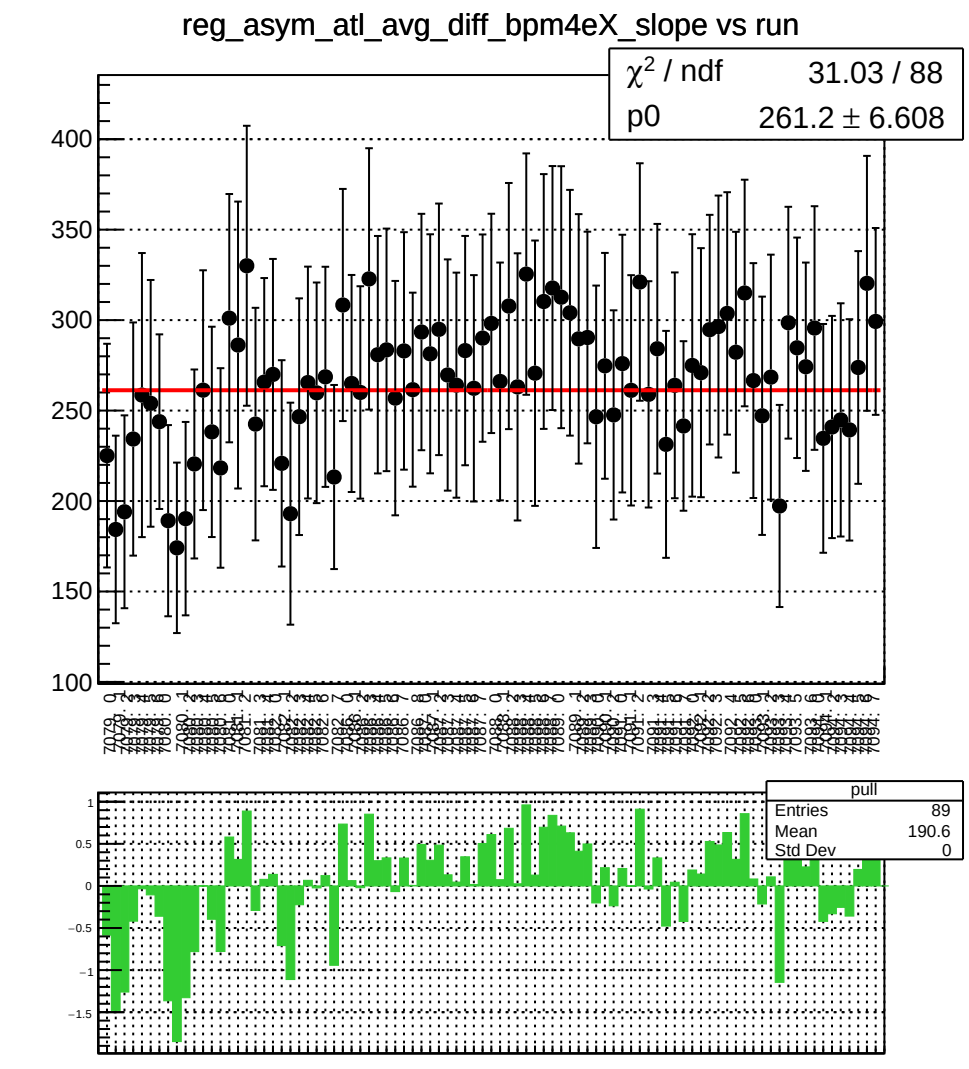

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 163.2 / 88
p0 −252.8 ± 0.3985
pull
Entries 89
Mean −1272
Std Dev 0

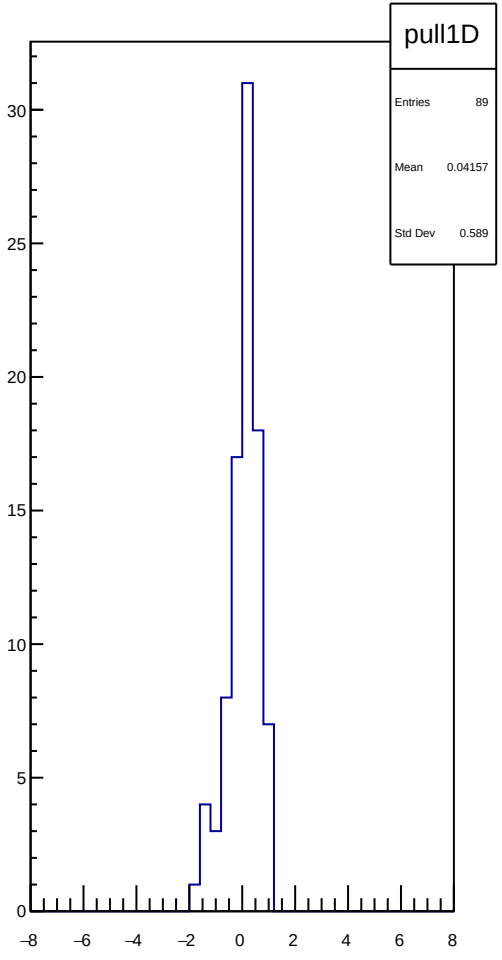

pull1D
Entries 89
Mean 0.01863
Std Dev 1.354

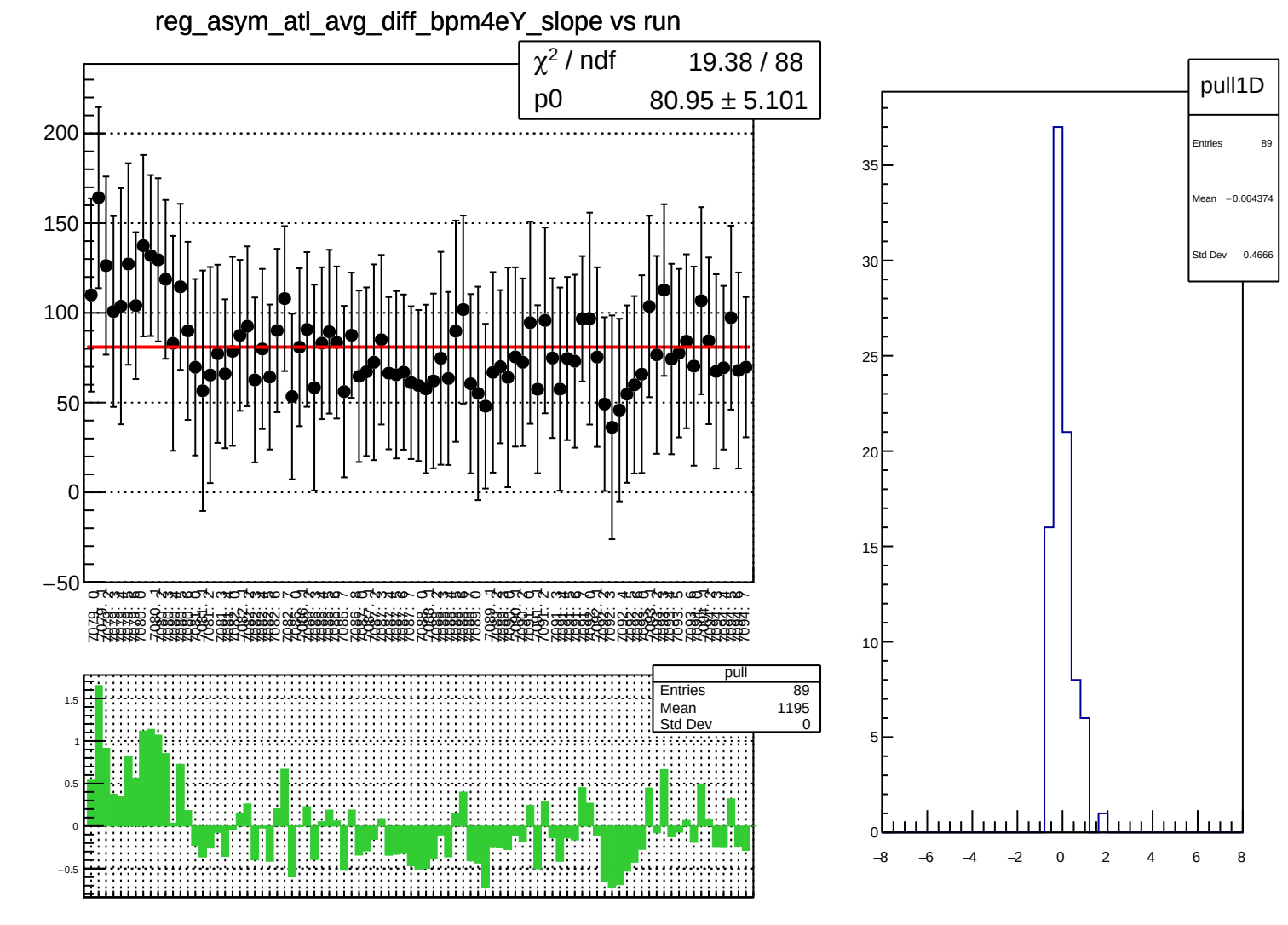

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 31.15 / 88
p0 −284.8 ± 6.859
pull
Entries 89
Mean 199.4
Std Dev 0
pull1D
Entries 89
Mean −0.04028
Std Dev 0.5902

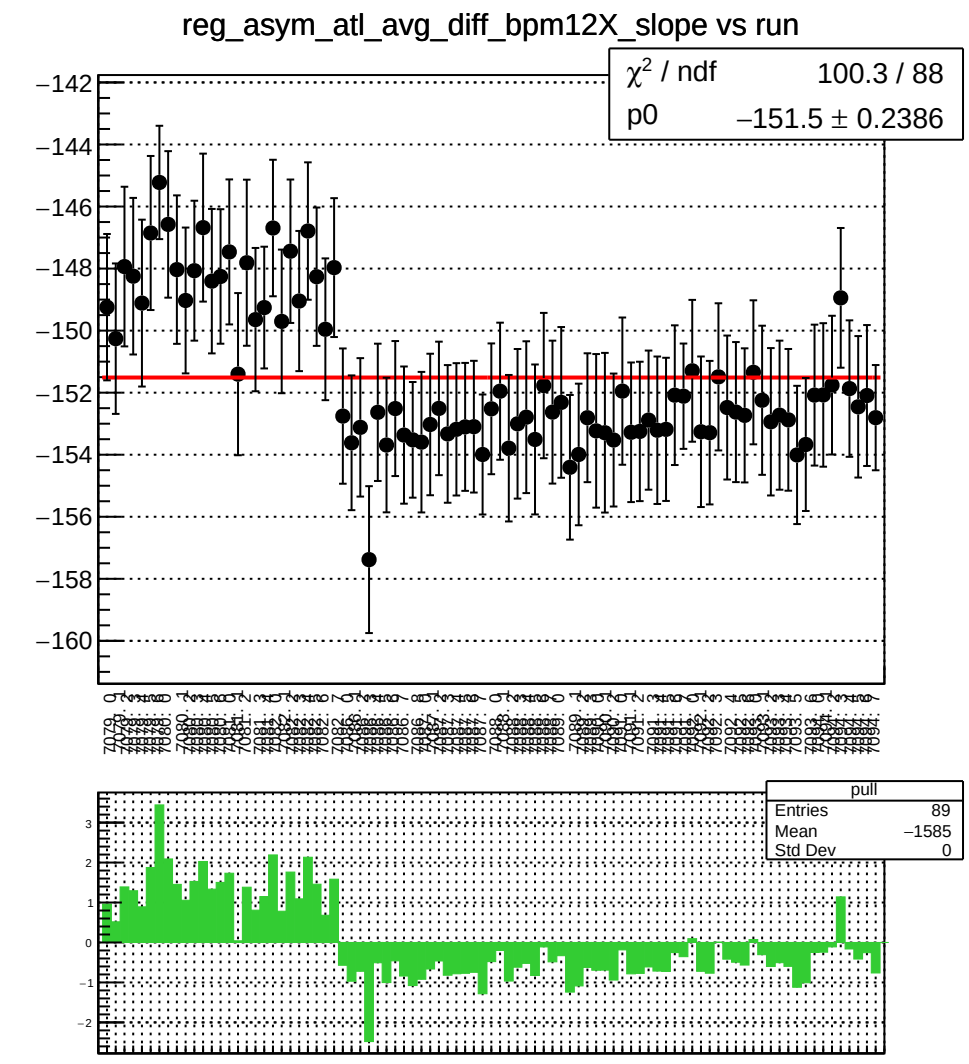

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.18 / 88
p0 −3.003 ± 4.854
pull
Entries 89
Mean 1410
Std Dev 0

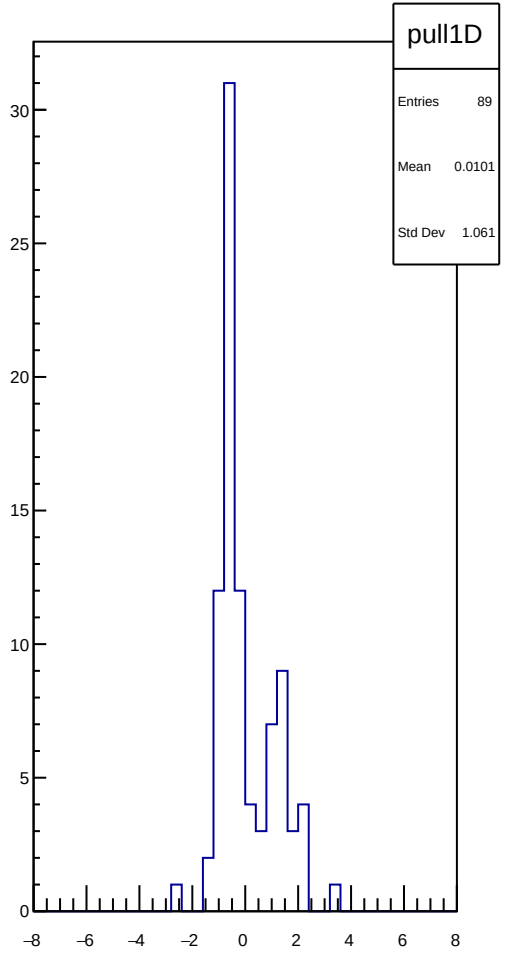

pull1D
Entries 89
Mean 0.003164
Std Dev 0.4263

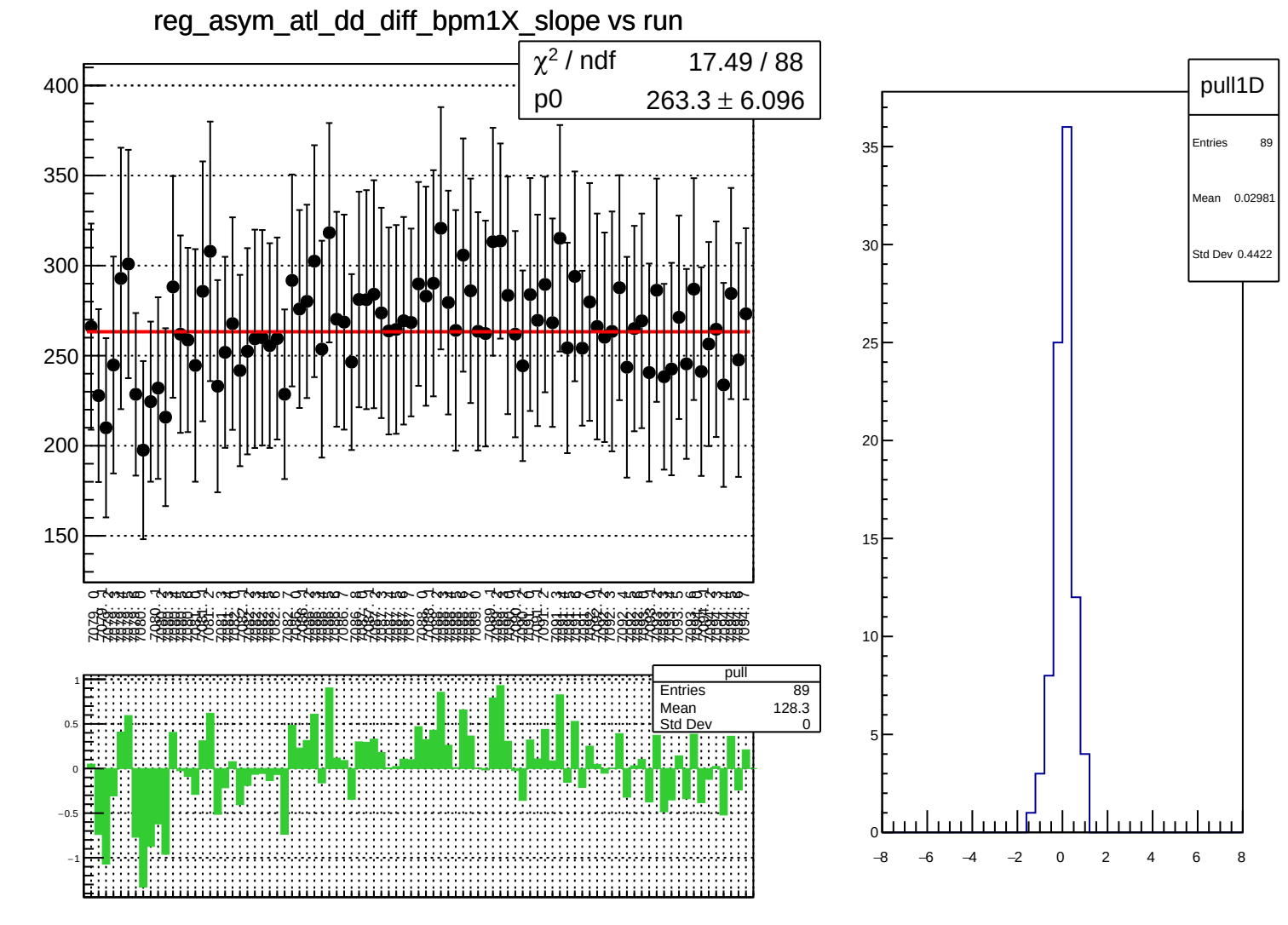

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.03 / 88
p0 261.2 ± 6.608
pull
Entries 89
Mean 190.6
Std Dev 0

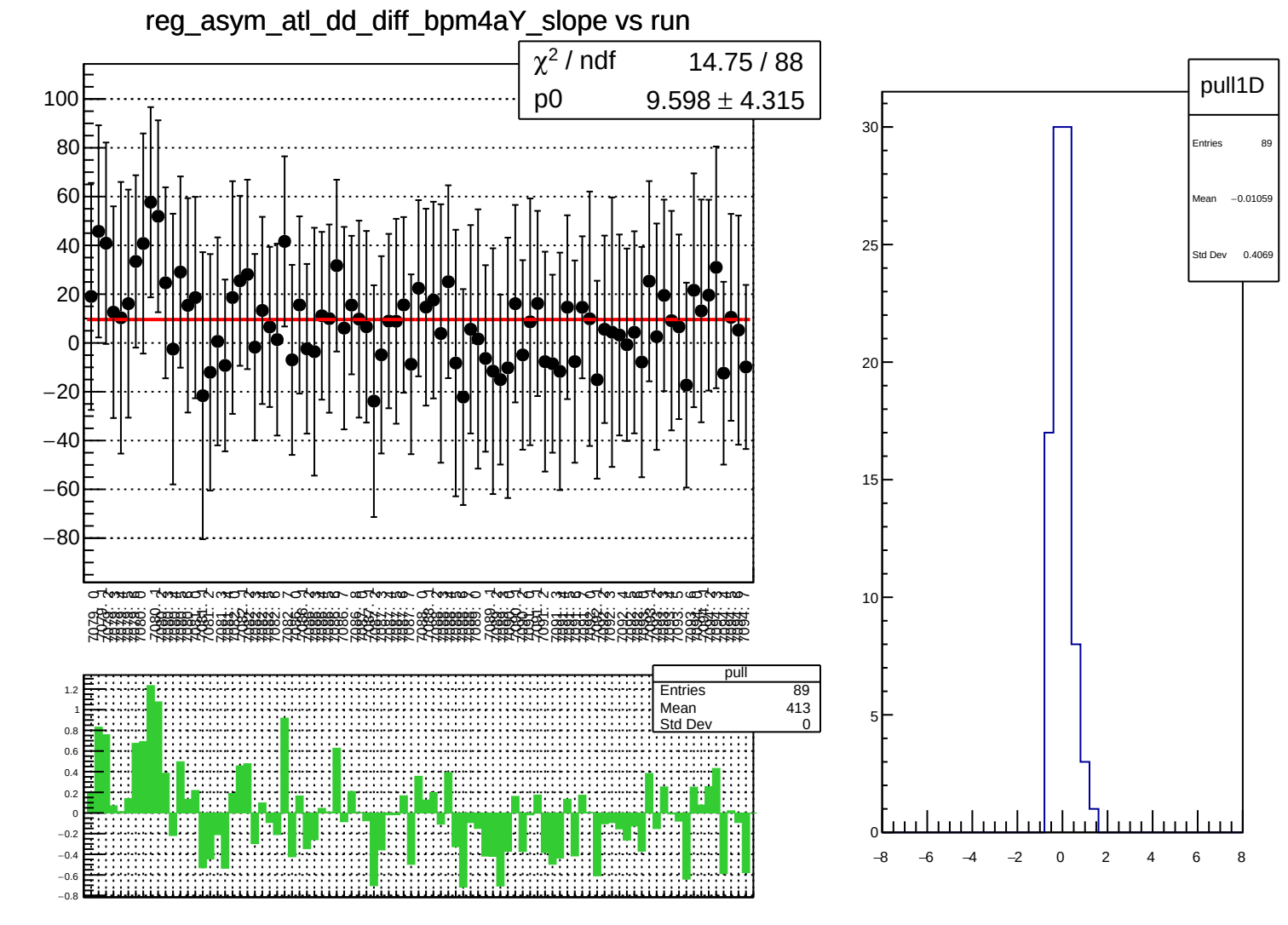

pull1D
Entries 89
Mean 0.04157
Std Dev 0.589

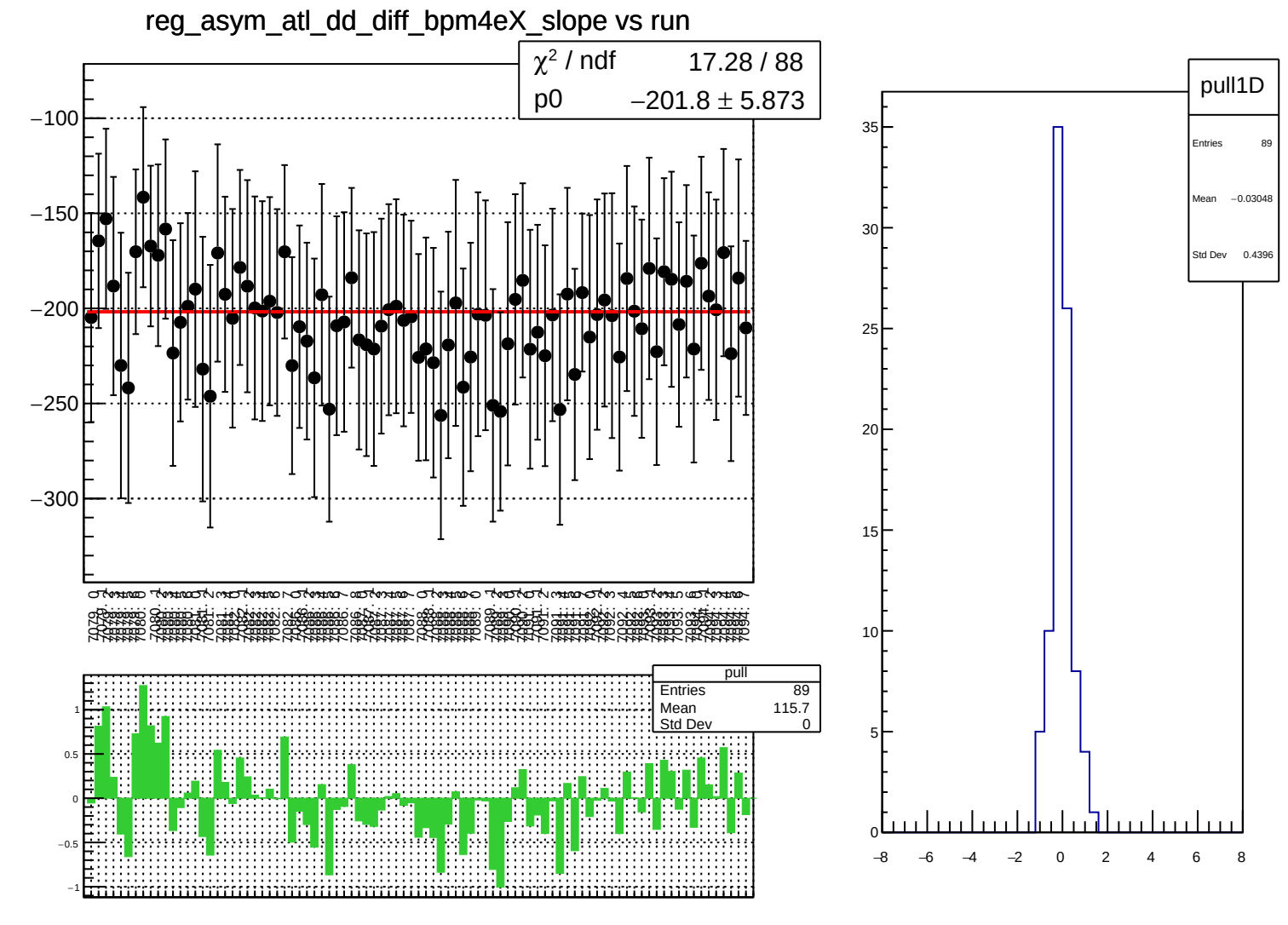

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.38 / 88
p0 80.95 ± 5.101
pull
Entries 89
Mean 1195
Std Dev 0
pull1D
Entries 89
Mean −0.004374
Std Dev 0.4666

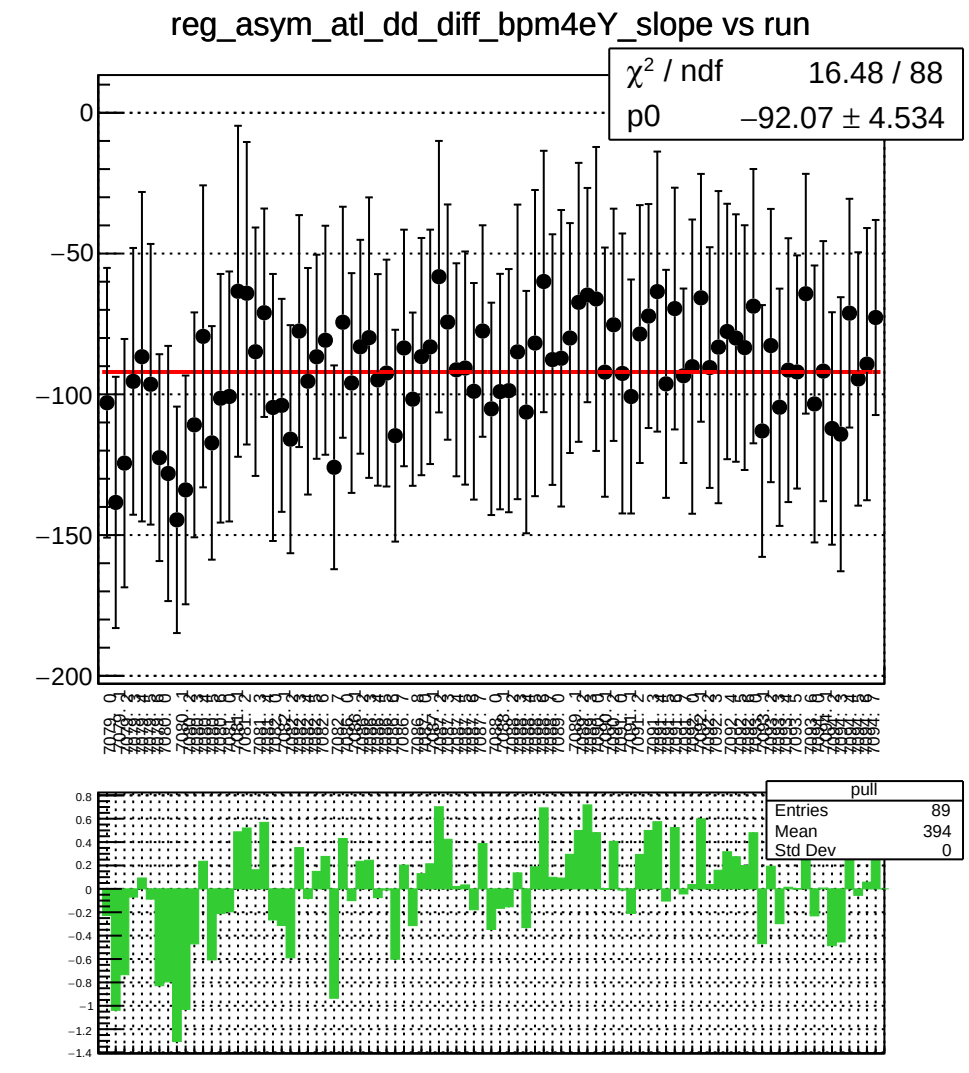

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 100.3 / 88
p0 −151.5 ± 0.2386
pull
Entries 89
Mean −1585
Std Dev 0

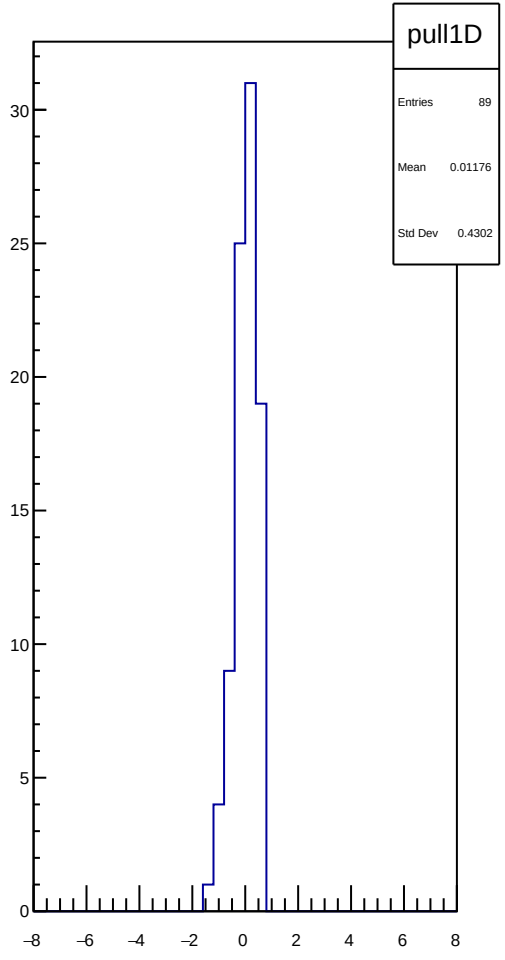

pull1D
Entries 89
Mean 0.0101
Std Dev 1.061

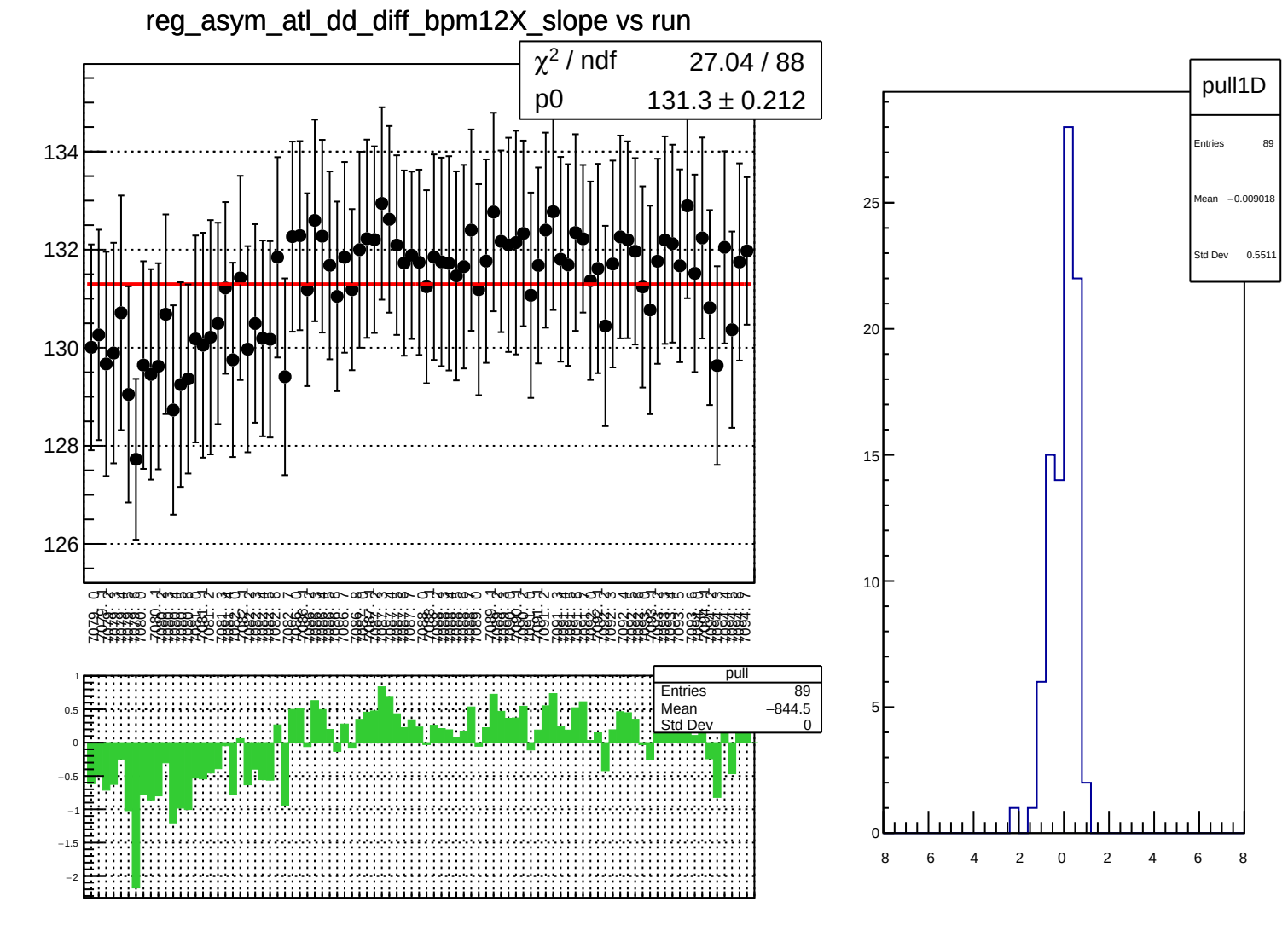

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 17.49 / 88
p0 263.3 ± 6.096
400
350
300
250
200
150
pull
Entries 89
Mean 128.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.02981
Std Dev 0.4422
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

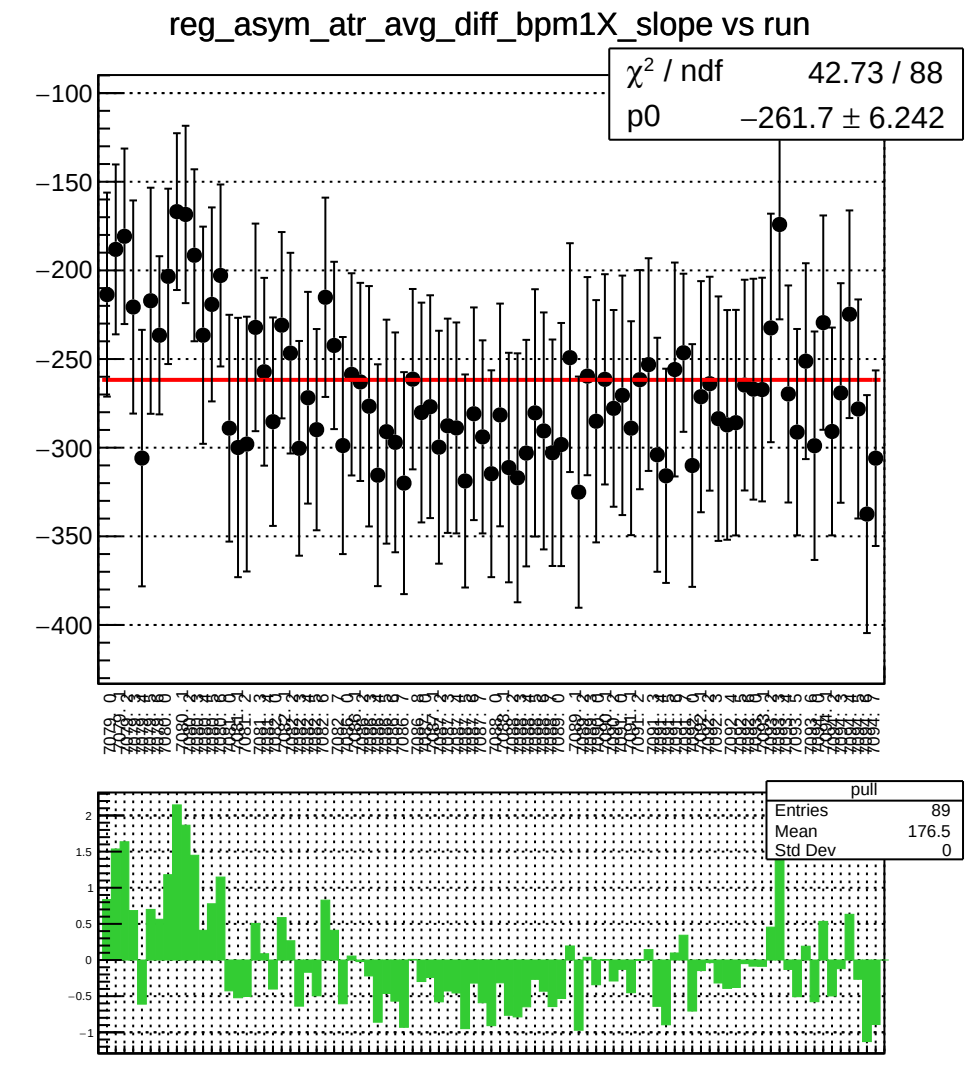

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.75 / 88
p0 9.598 ± 4.315
pull
Entries 89
Mean 413
Std Dev 0
pull1D
Entries 89
Mean −0.01059
Std Dev 0.4069

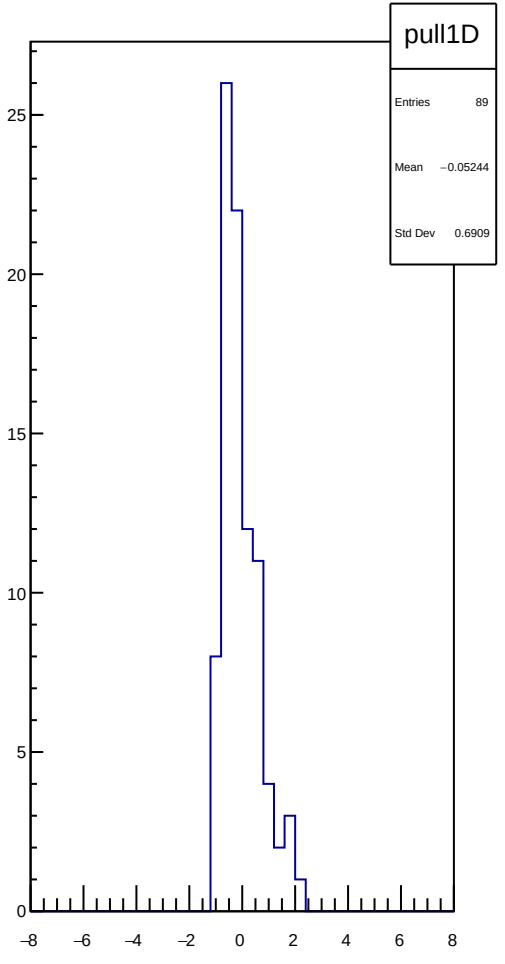

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.28 / 88
p0 −201.8 ± 5.873
−100
−150
−200
−250
−300
pull
Entries 89
Mean 115.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.03048
Std Dev 0.4396
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

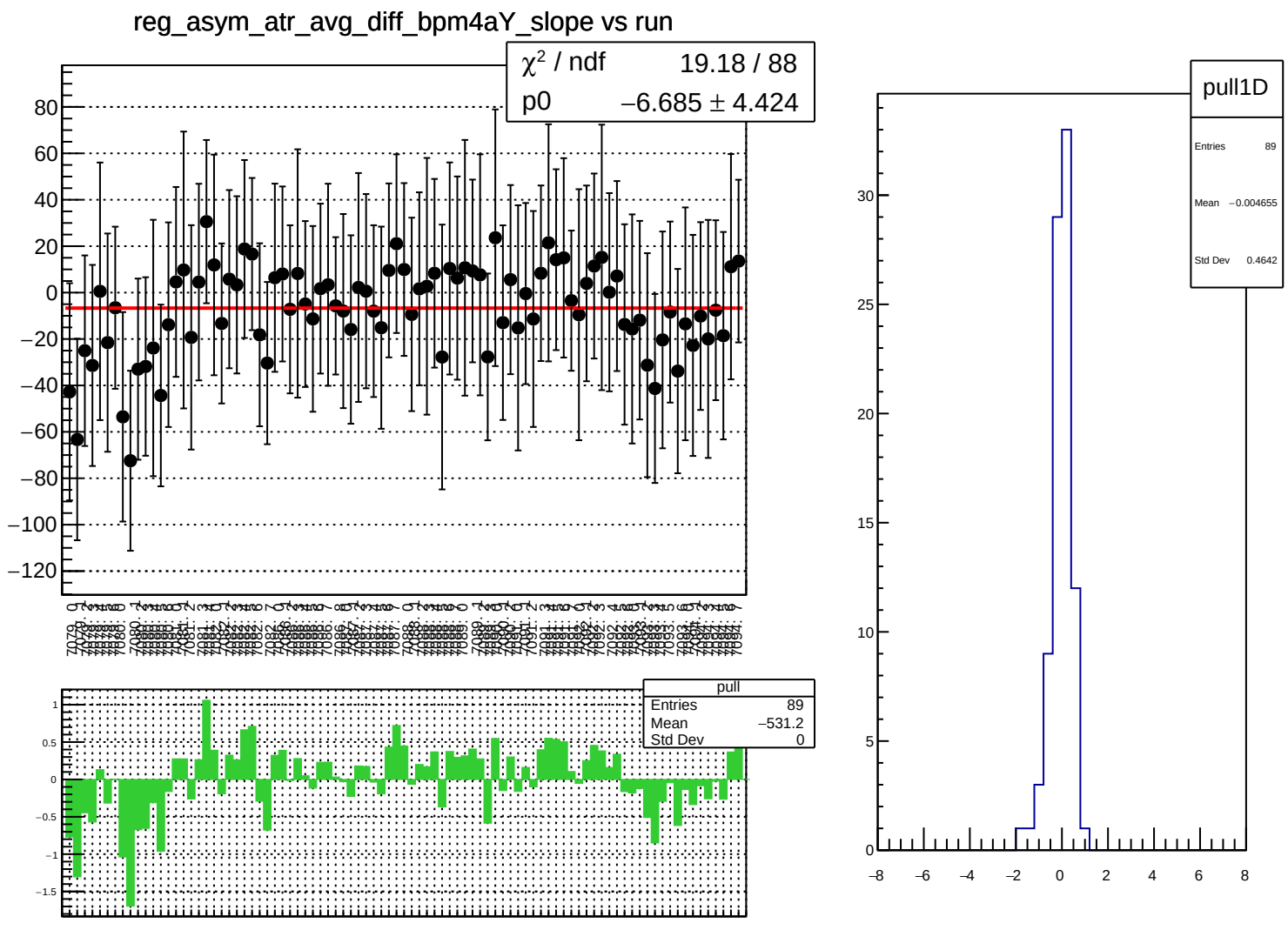

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.48 / 88
p0 −92.07 ± 4.534
0
−50
−100
−150
−200
pull
Entries 89
Mean 394
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

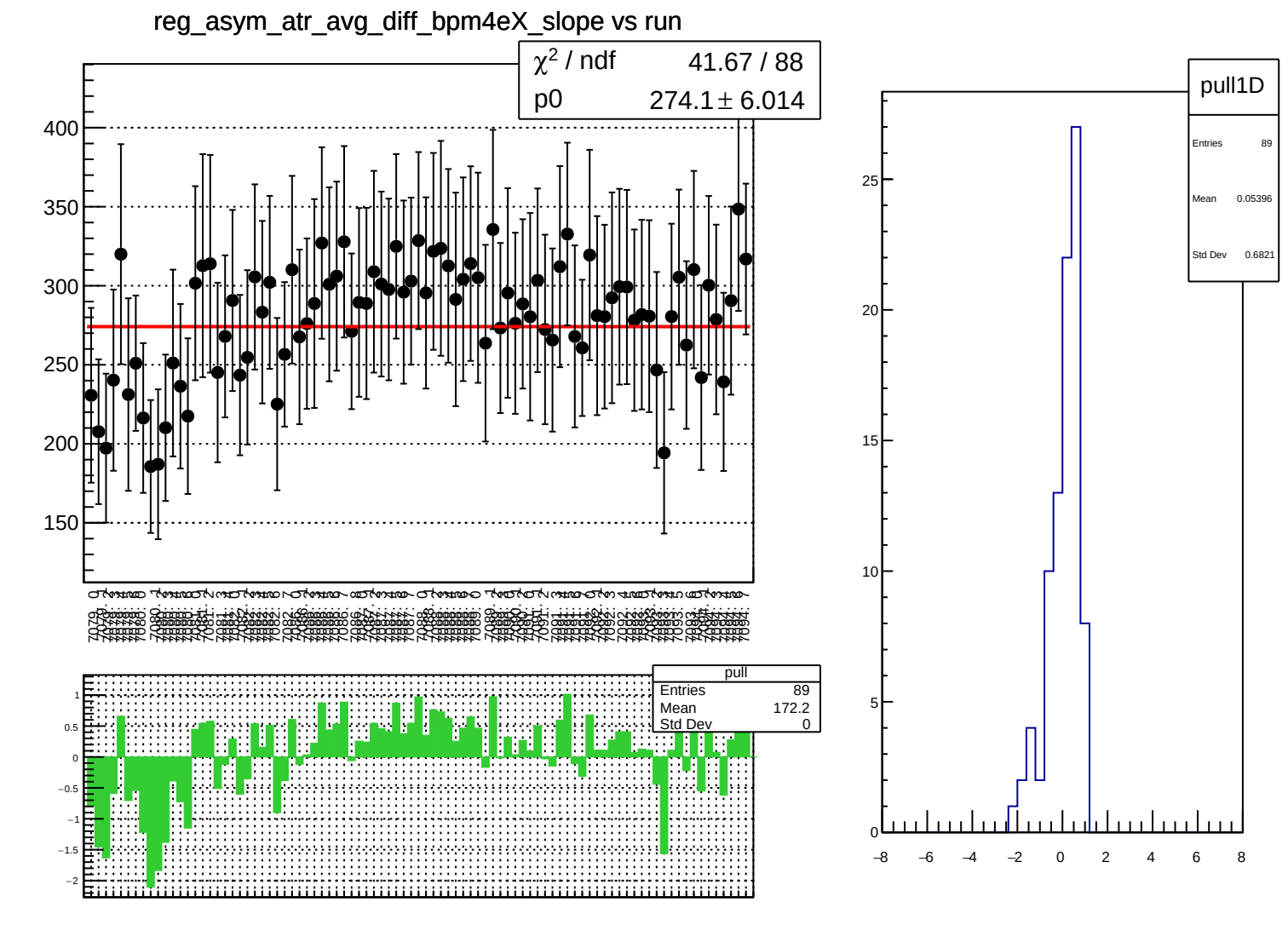

pull1D
Entries 89
Mean 0.01176
Std Dev 0.4302
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

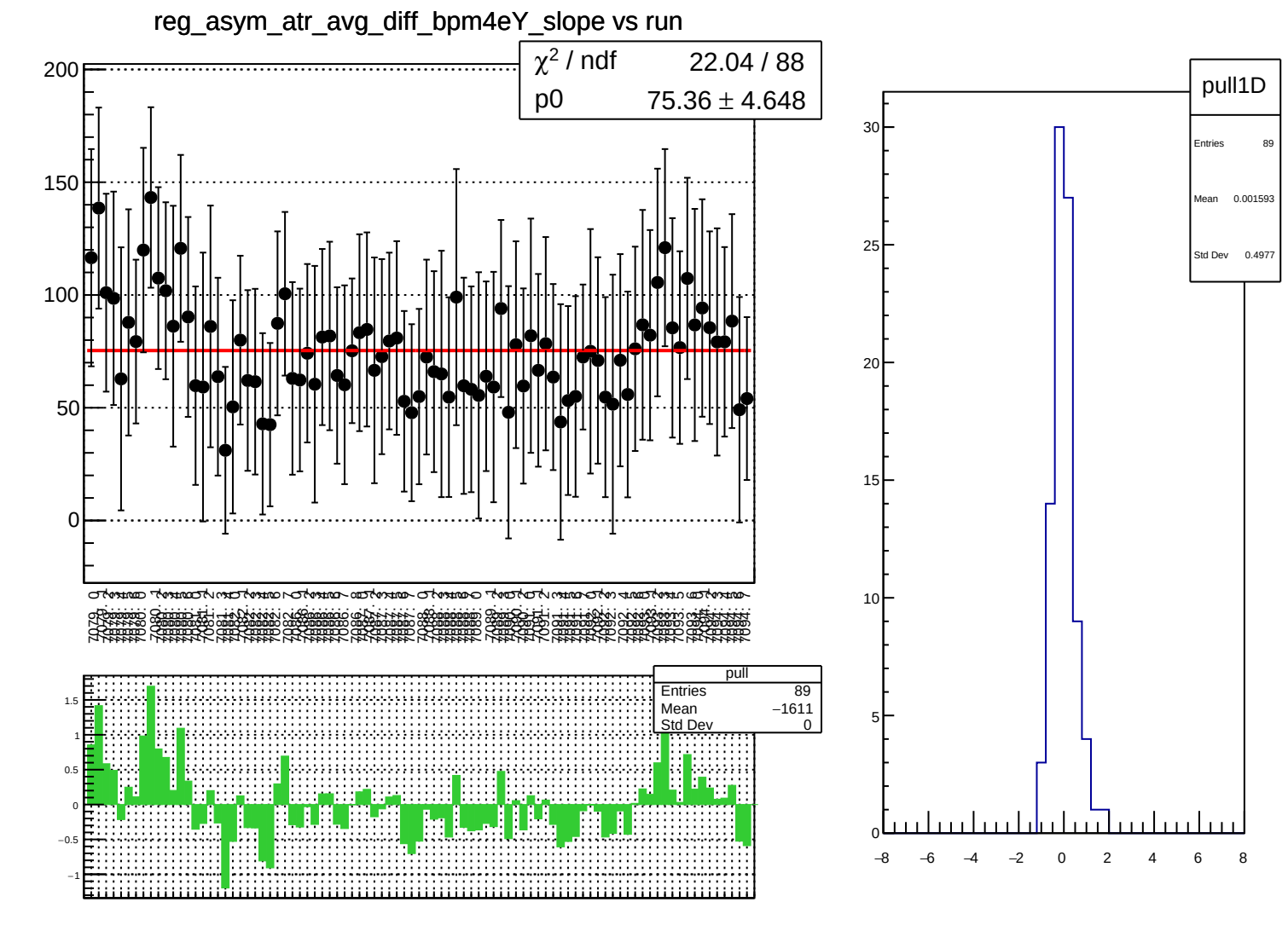

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 27.04 / 88
p0 131.3 ± 0.212
134
132
130
128
126
pull
Entries 89
Mean −844.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.009018
Std Dev 0.5511
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

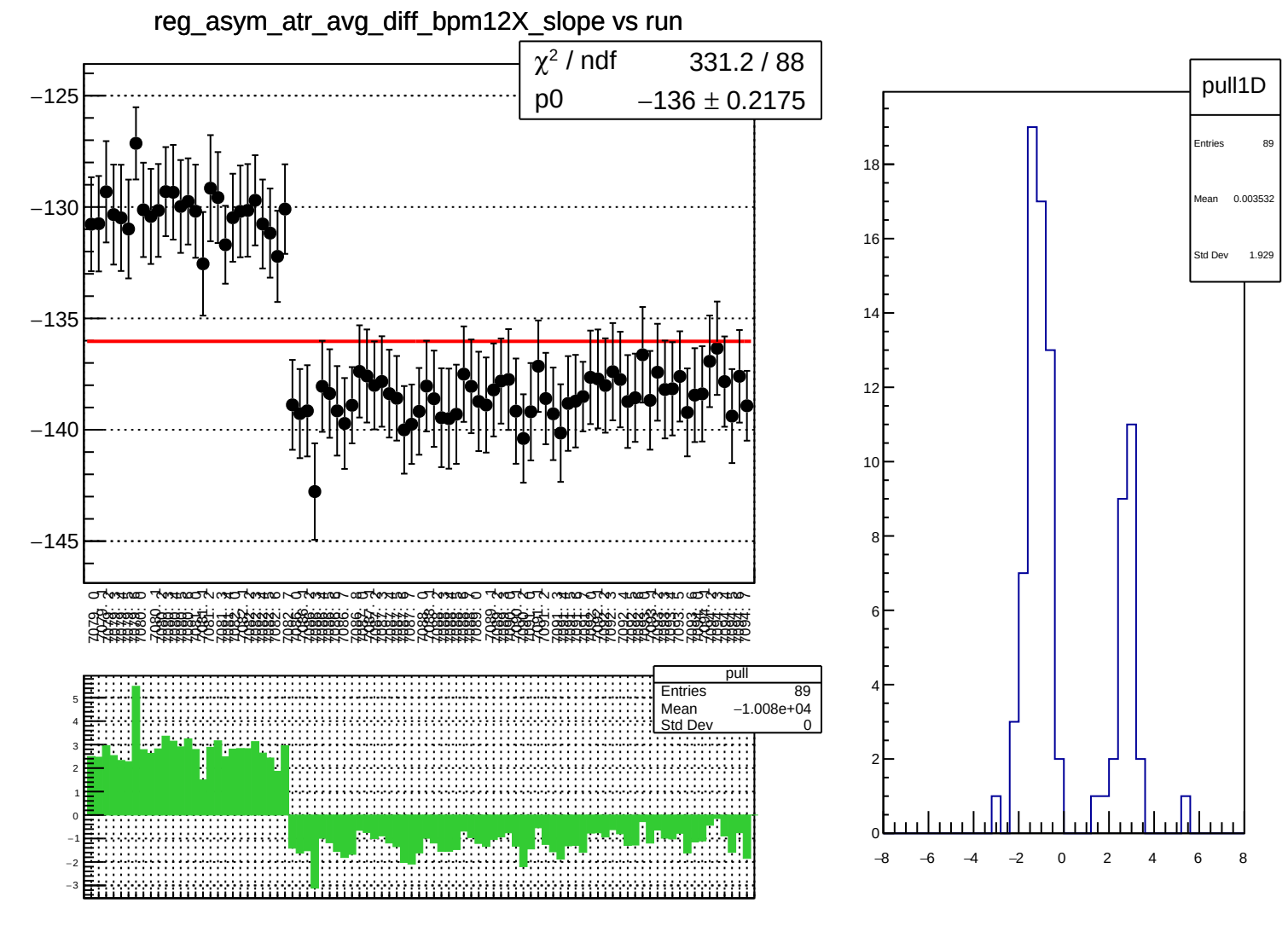

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 42.73 / 88
p0 −261.7 ± 6.242
pull
Entries 89
Mean 176.5
Std Dev 0

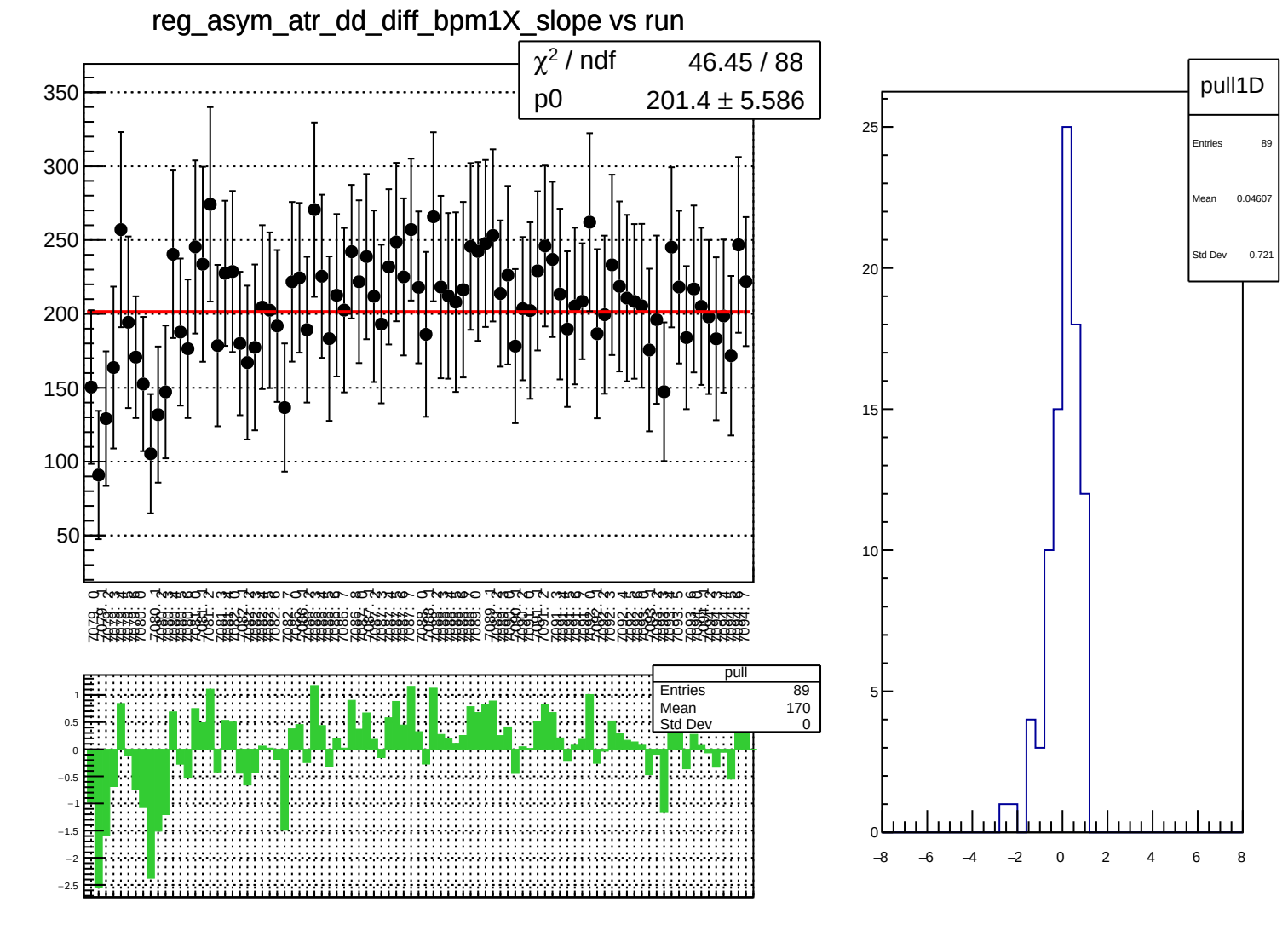

pull1D
Entries 89
Mean −0.05244
Std Dev 0.6909

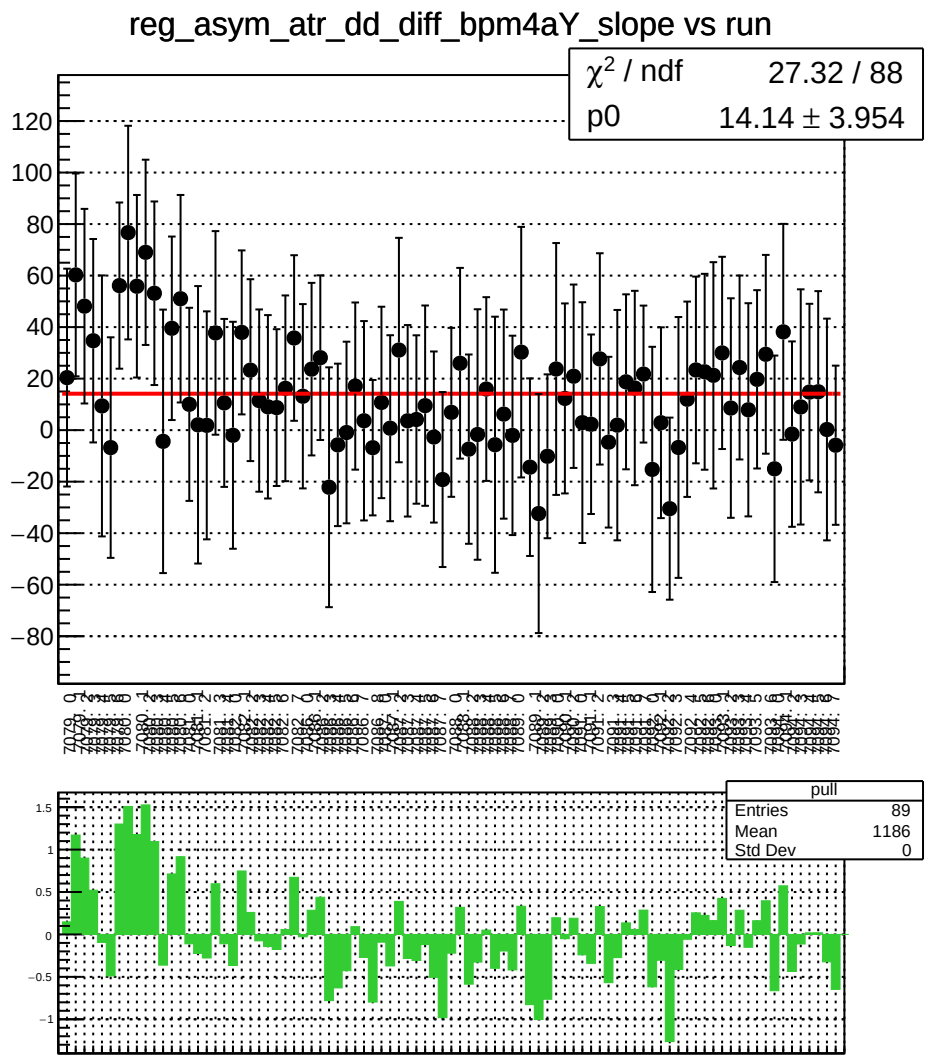

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.18 / 88
p0 −6.685 ± 4.424
pull
Entries 89
Mean −531.2
Std Dev 0
pull1D
Entries 89
Mean −0.004655
Std Dev 0.4642

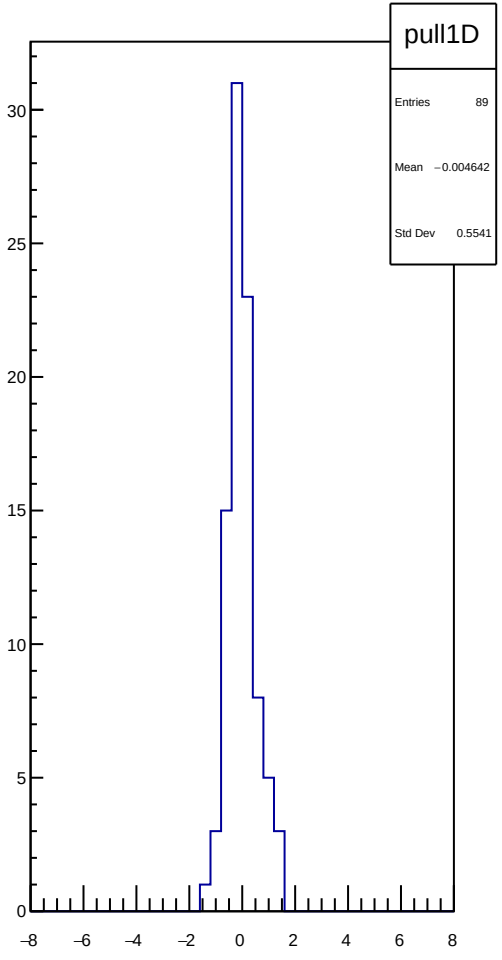

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.67 / 88
p0 274.1 ± 6.014
400
350
300
250
200
150
pull
Entries 89
Mean 172.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.05396
Std Dev 0.6821
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

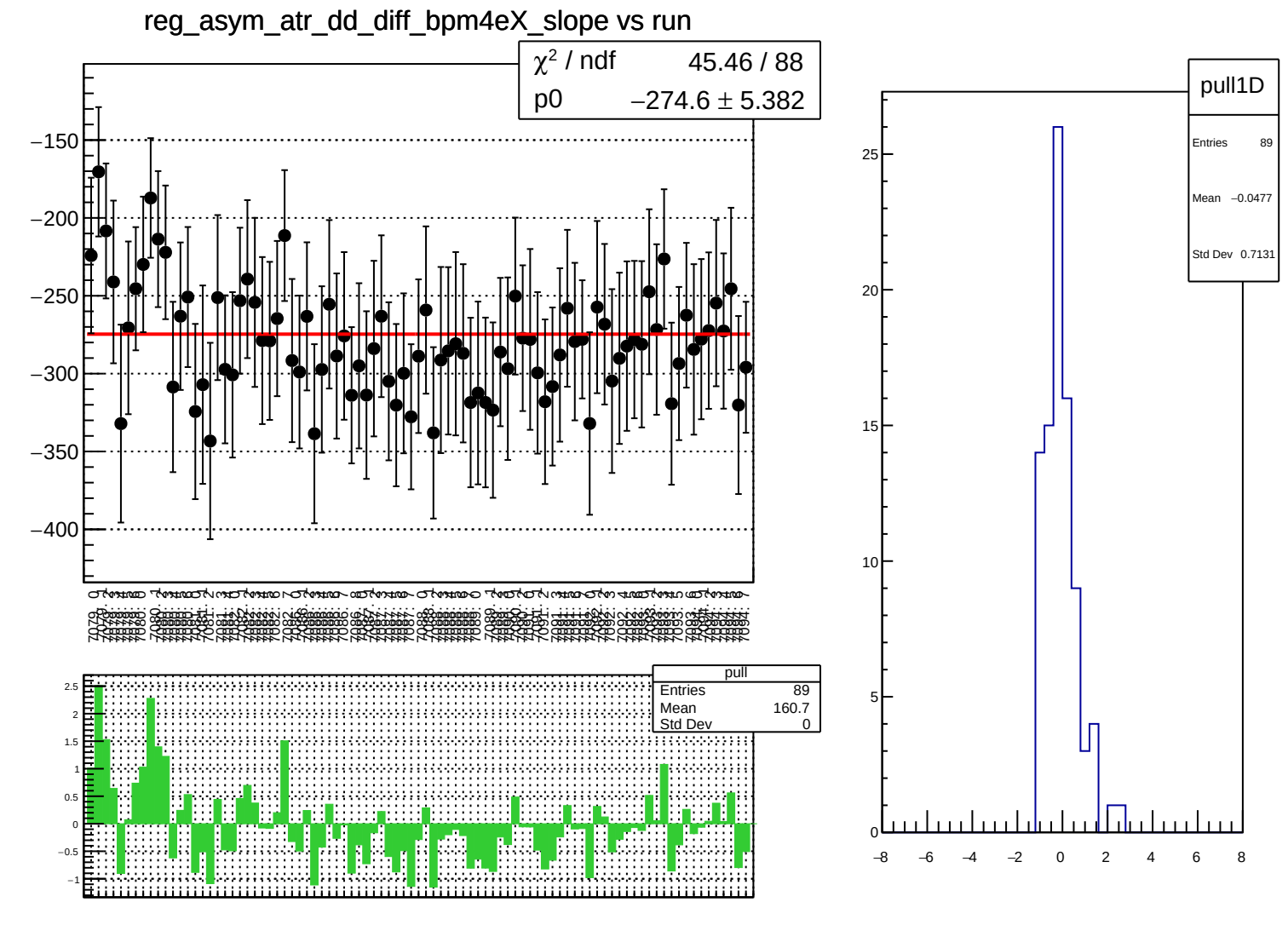

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.04 / 88
p0 75.36 ± 4.648
200
150
100
50
0
pull
Entries 89
Mean −1611
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.001593
Std Dev 0.4977
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

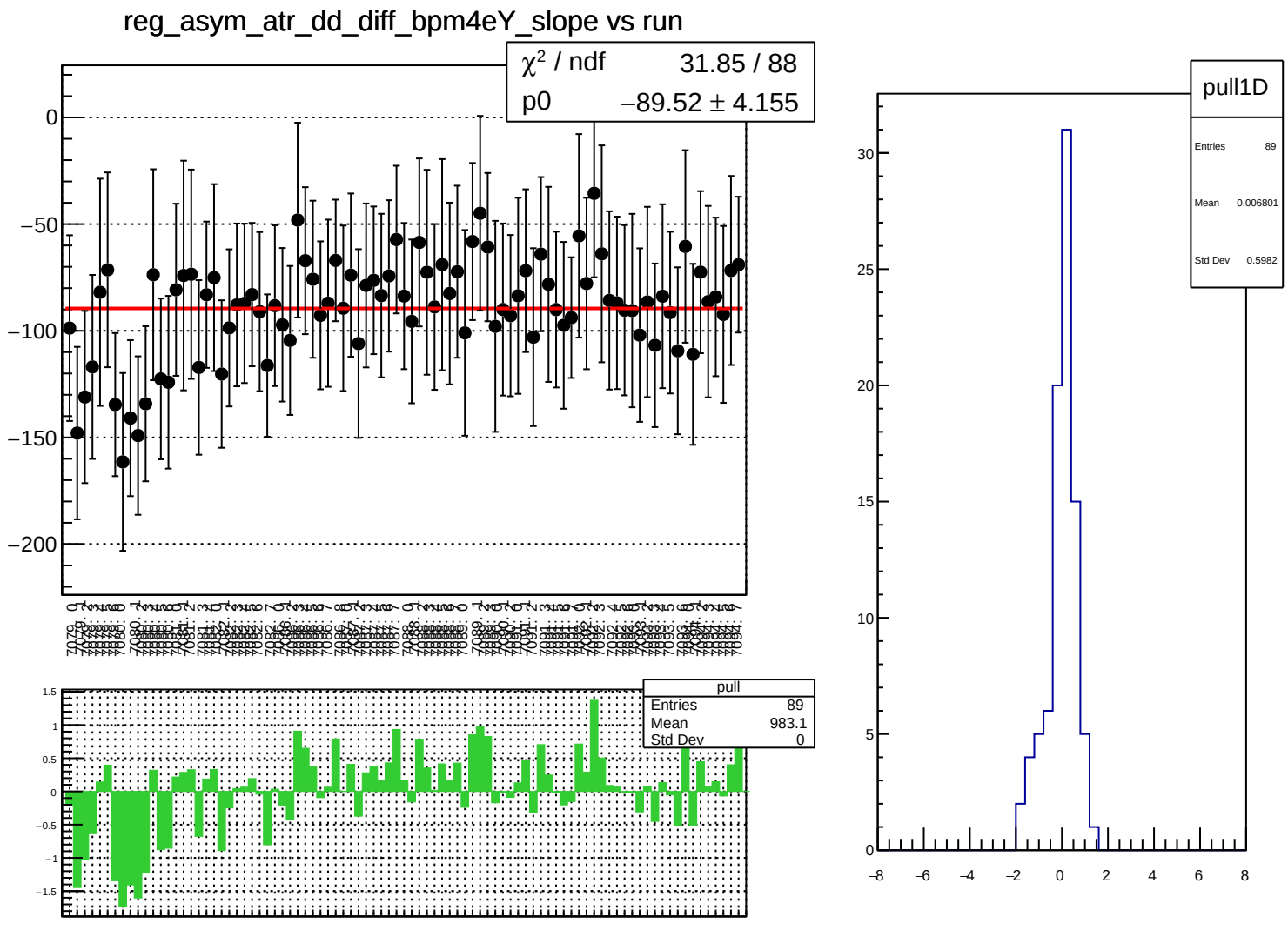

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 331.2 / 88
p0 −136 ± 0.2175
−125
−130
−135
−140
−145
pull
Entries 89
Mean −1.008e+04
Std Dev 0
pull1D
Entries 89
Mean 0.003532
Std Dev 1.929

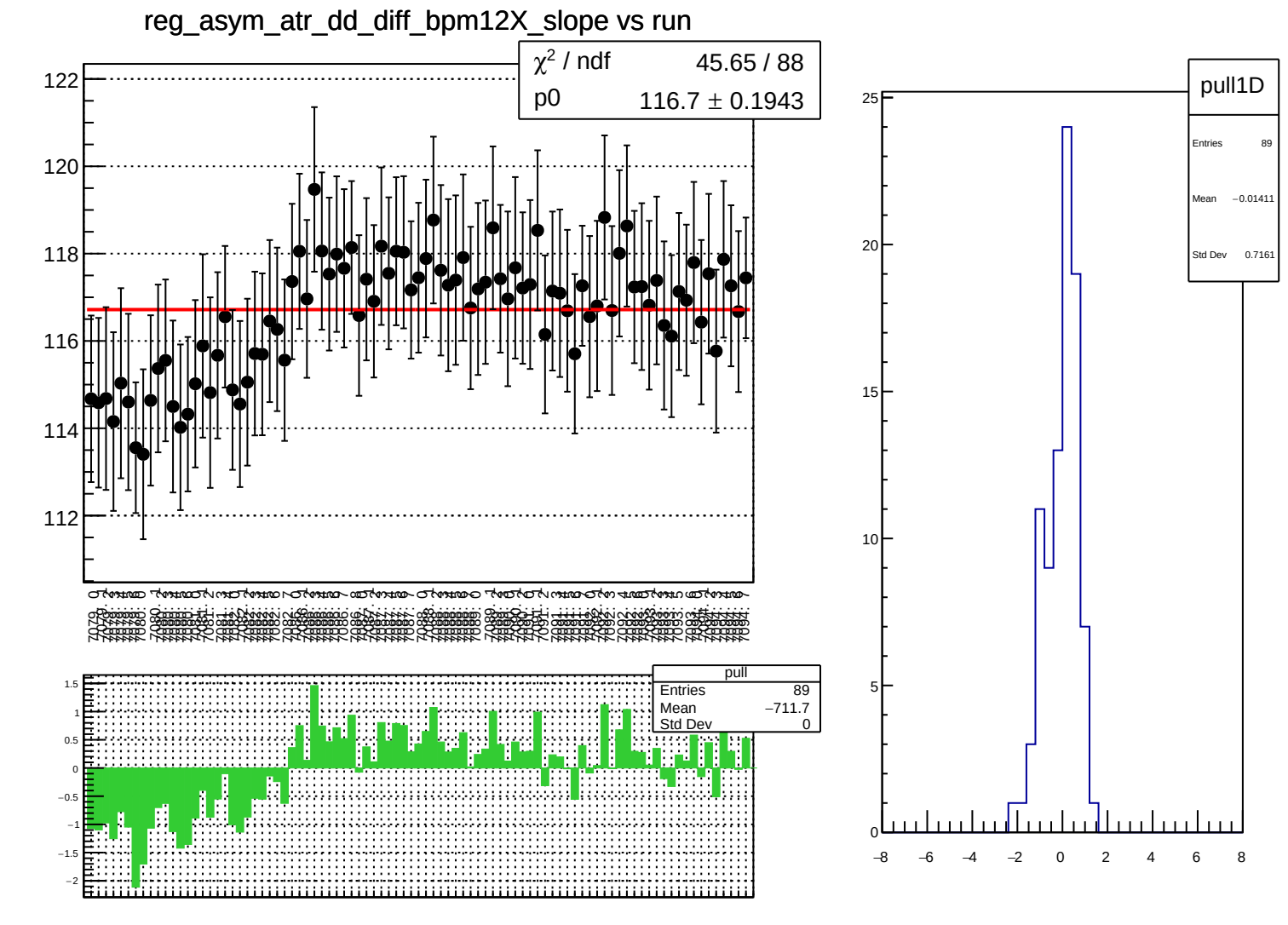

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 46.45 / 88
p0 201.4 ± 5.586
pull
Entries 89
Mean 170
Std Dev 0
pull1D
Entries 89
Mean 0.04607
Std Dev 0.721

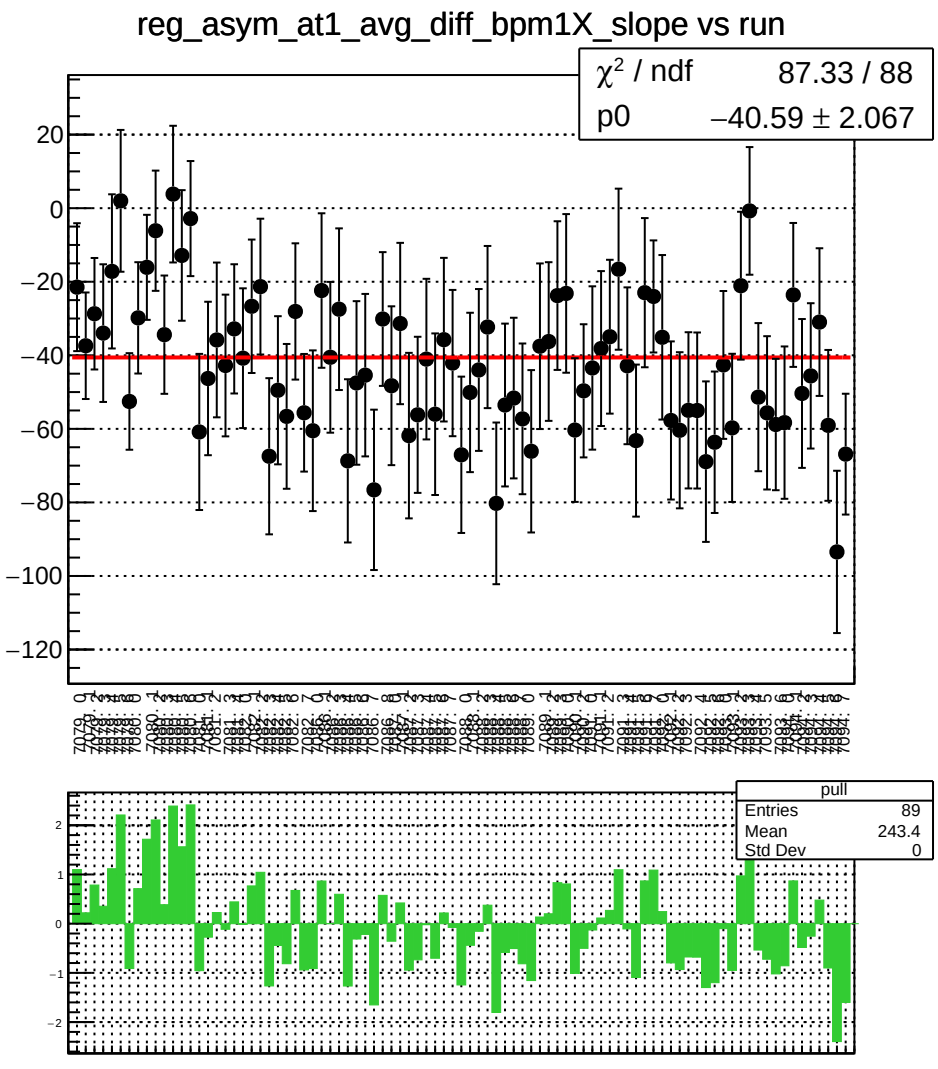

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.32 / 88
p0 14.14 ± 3.954
pull
Entries 89
Mean 1186
Std Dev 0

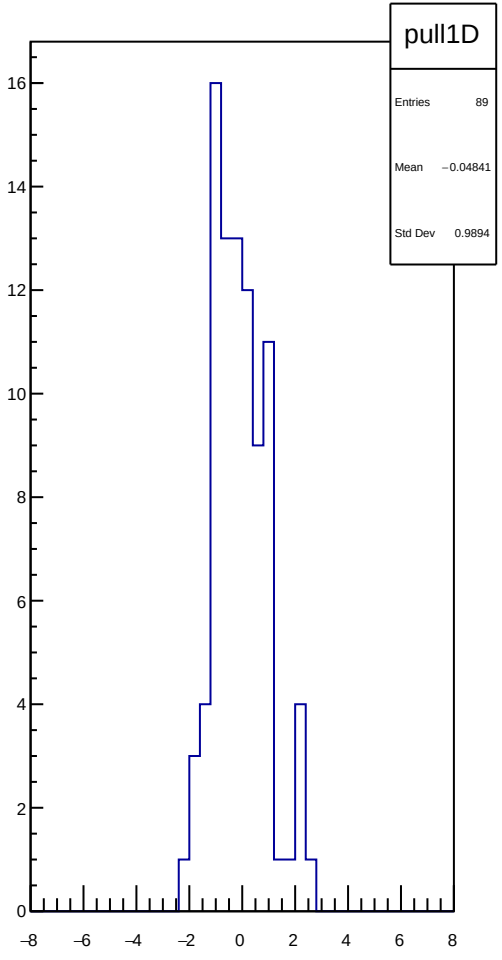

pull1D
Entries 89
Mean −0.004642
Std Dev 0.5541

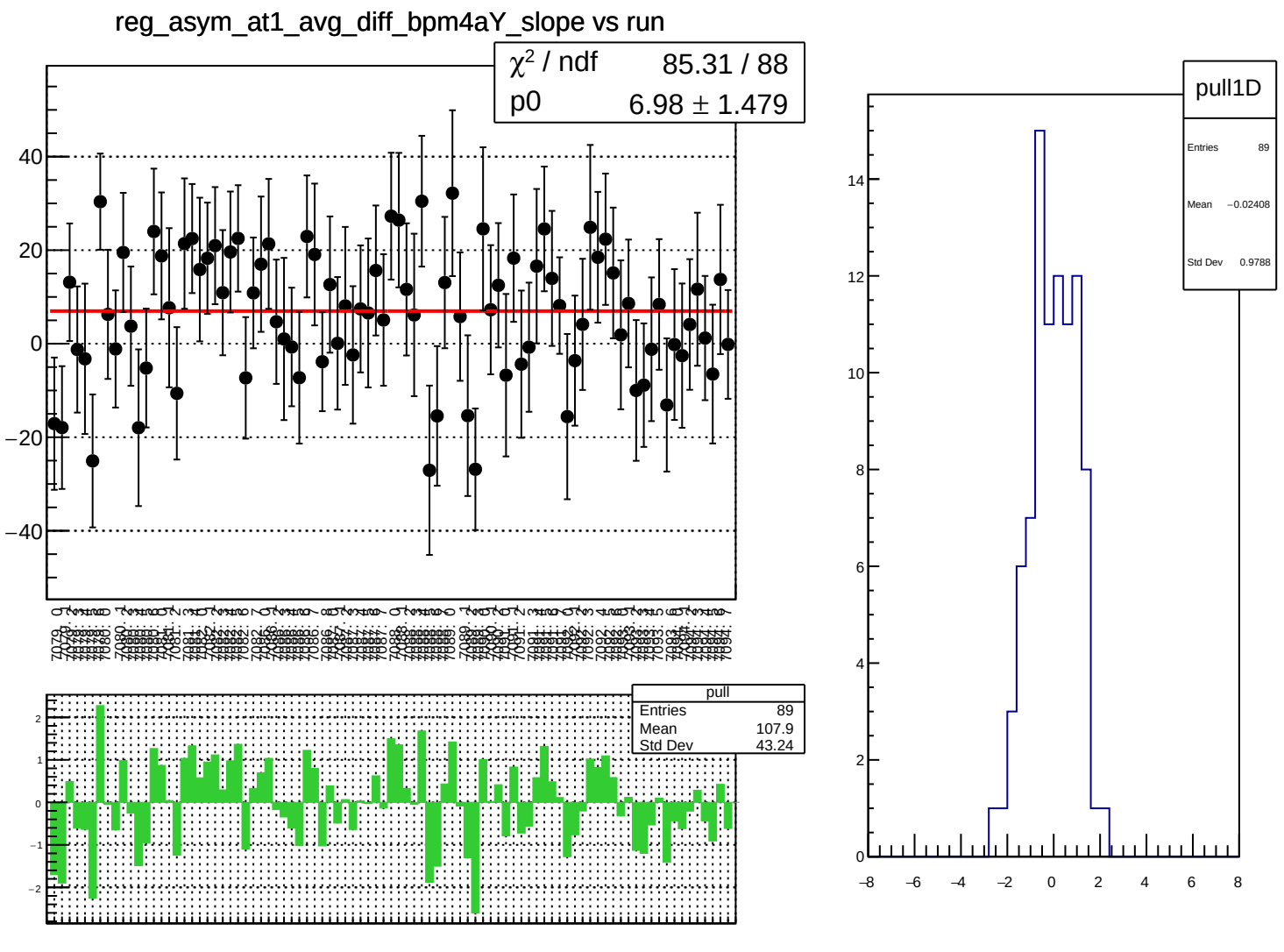

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.46 / 88
p0 −274.6 ± 5.382
−150
−200
−250
−300
−350
−400
pull
Entries 89
Mean 160.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.0477
Std Dev 0.7131
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

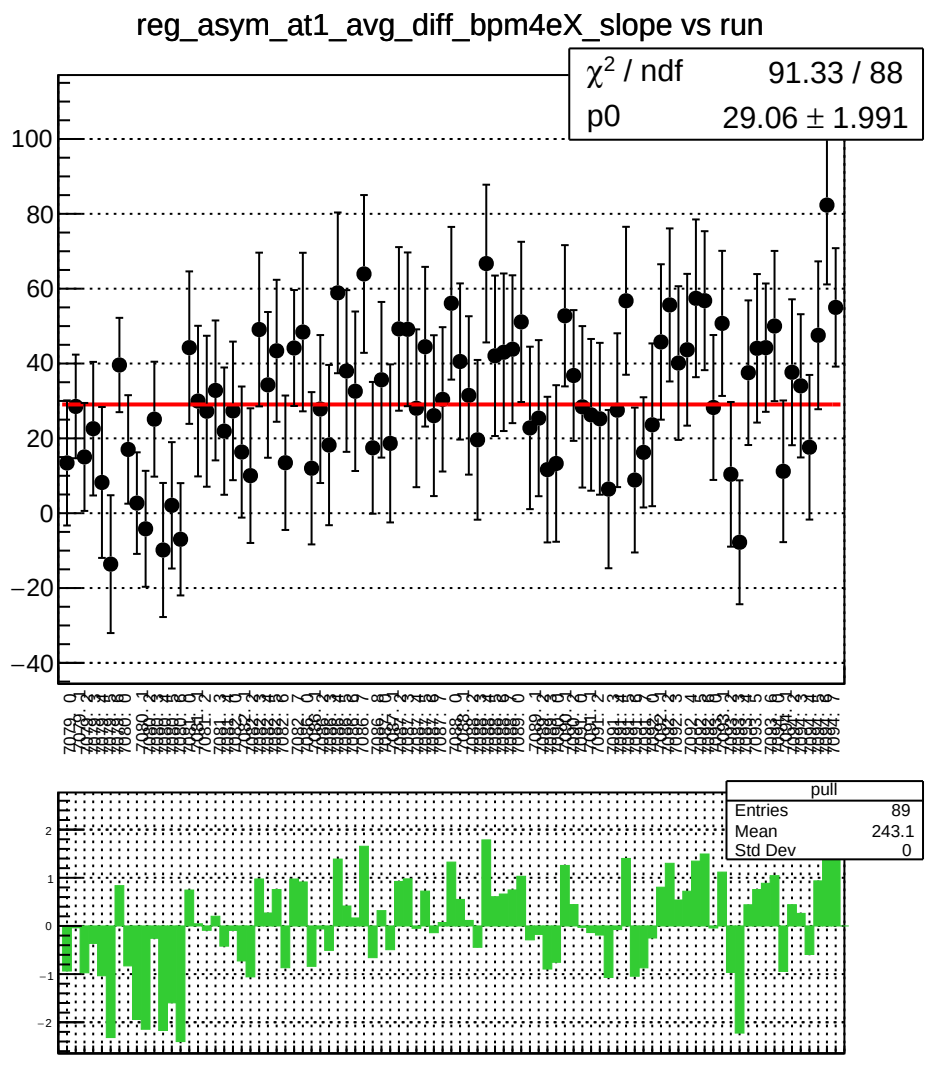

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.85 / 88
p0 −89.52 ± 4.155
0
−50
−100
−150
−200
pull
Entries 89
Mean 983.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.006801
Std Dev 0.5982
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

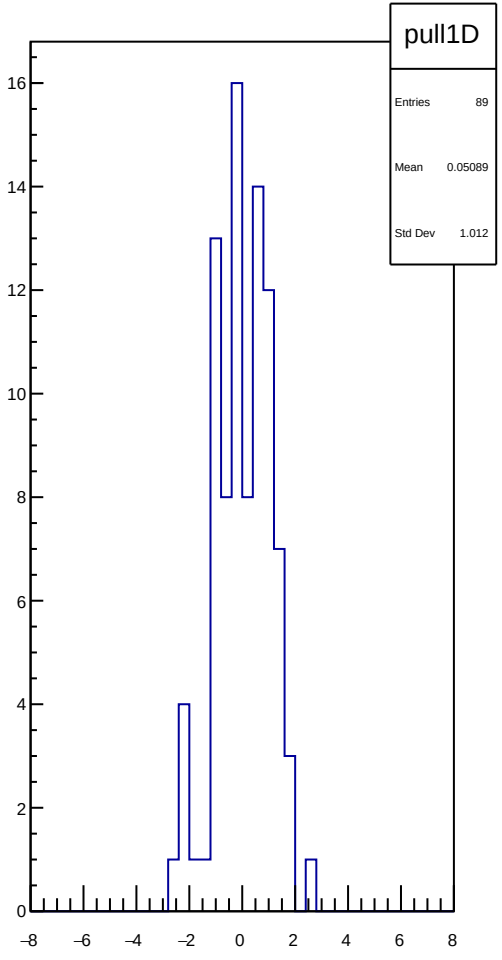

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 45.65 / 88
p0 116.7 ± 0.1943
122
120
118
116
114
112
pull
Entries 89
Mean −711.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01411
Std Dev 0.7161
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

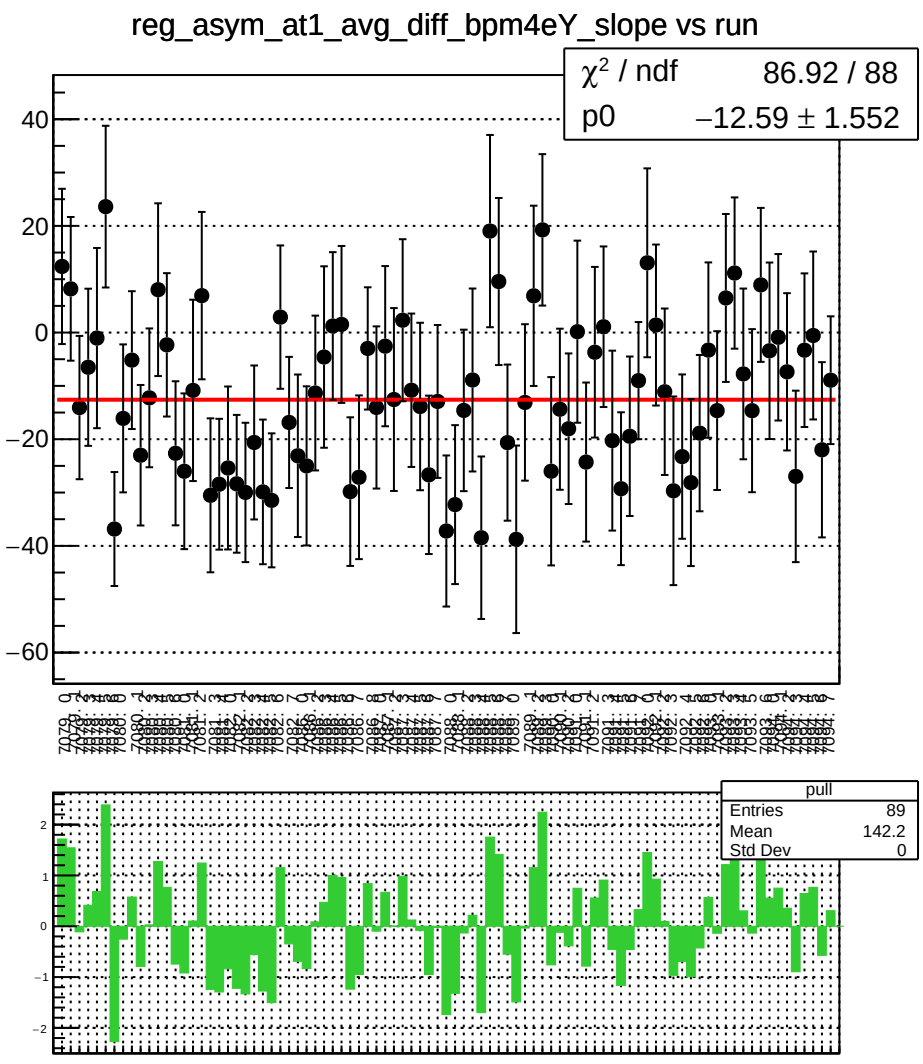

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 87.33 / 88
p0 −40.59 ± 2.067
pull
Entries 89
Mean 243.4
Std Dev 0

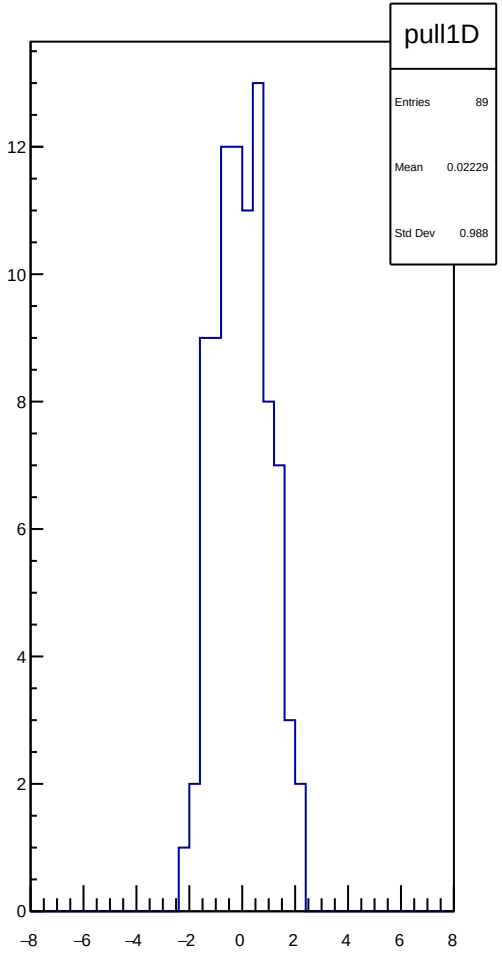

pull1D
Entries 89
Mean −0.04841
Std Dev 0.9894

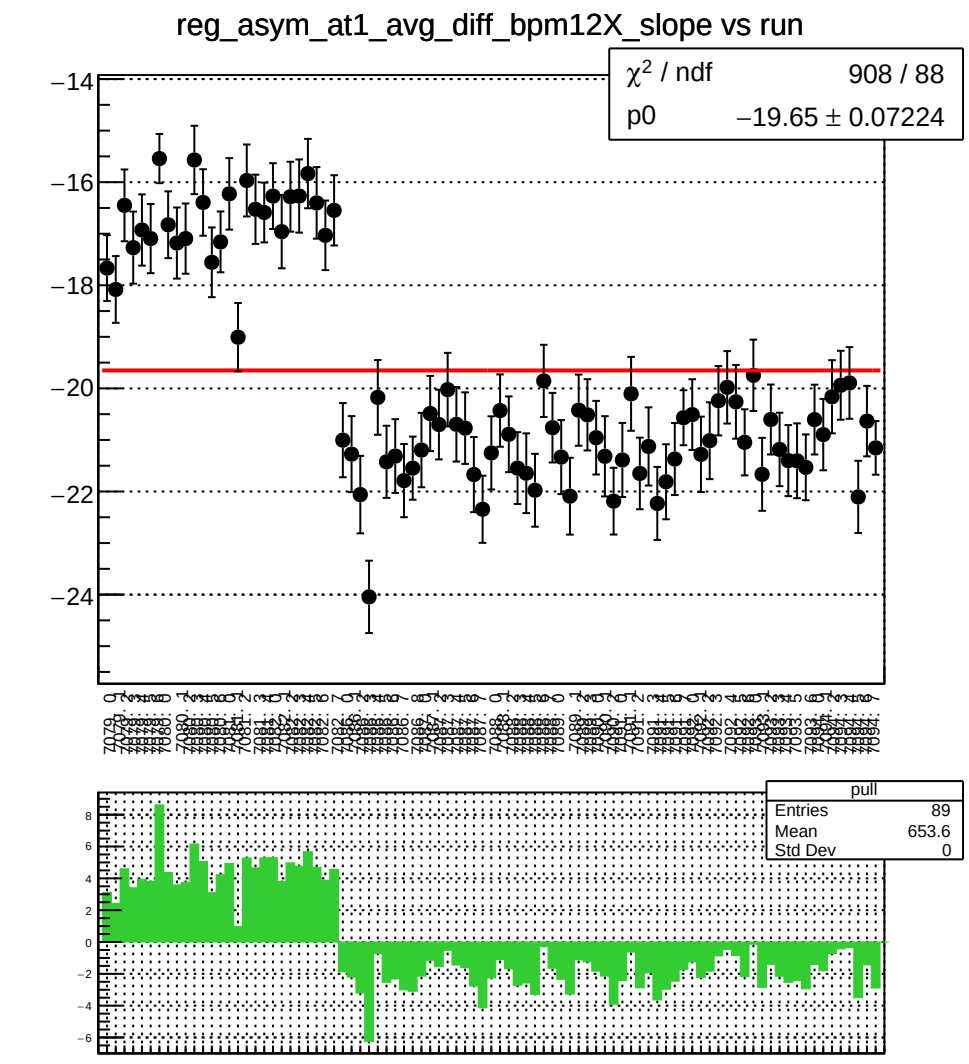

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.31 / 88
p0 6.98 ± 1.479
40
20
0
−20
−40
pull
Entries 89
Mean 107.9
Std Dev 43.24
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02408
Std Dev 0.9788
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

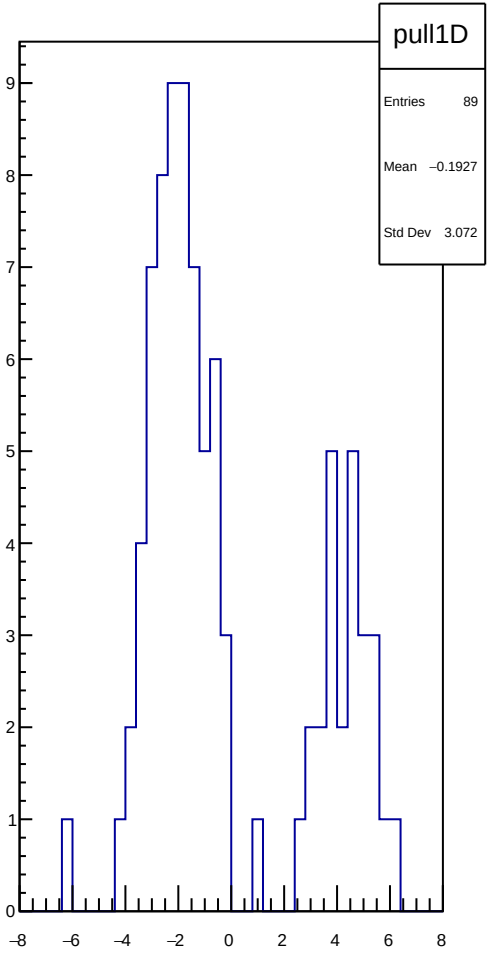

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.33 / 88
p0 29.06 ± 1.991
pull
Entries 89
Mean 243.1
Std Dev 0

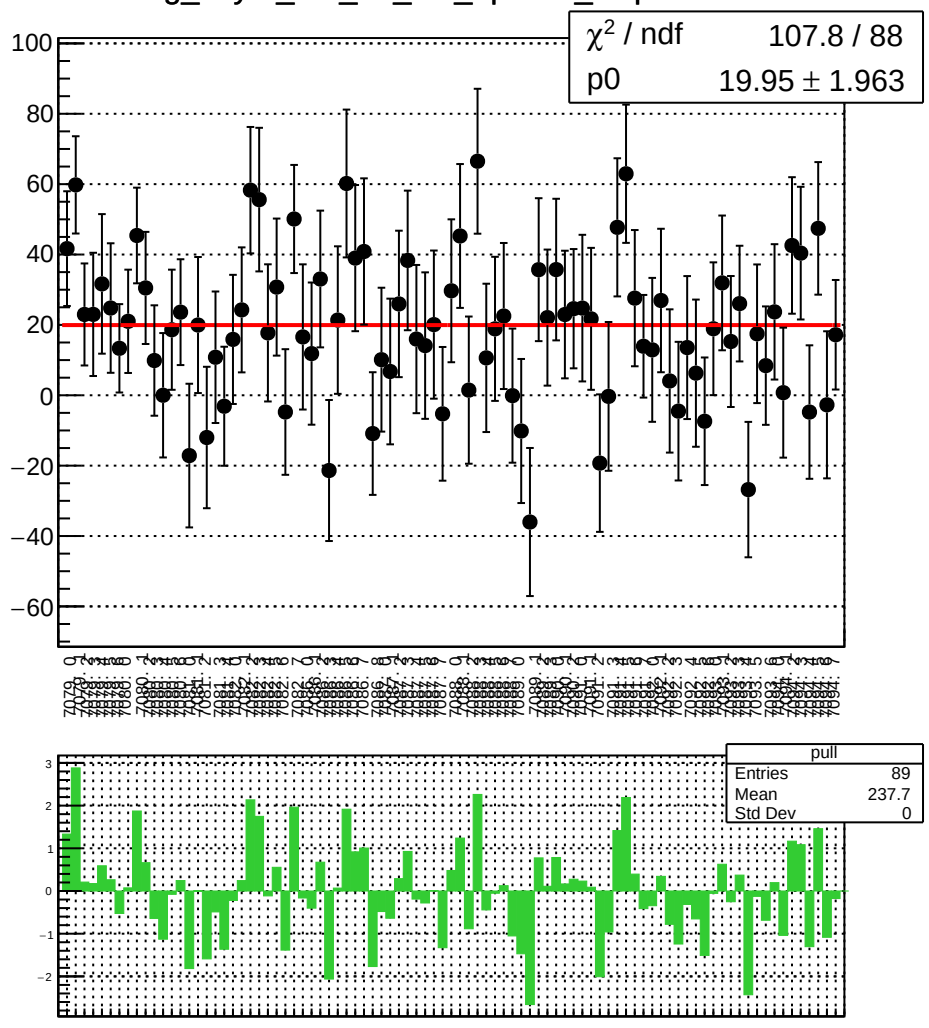

pull1D
Entries 89
Mean 0.05089
Std Dev 1.012

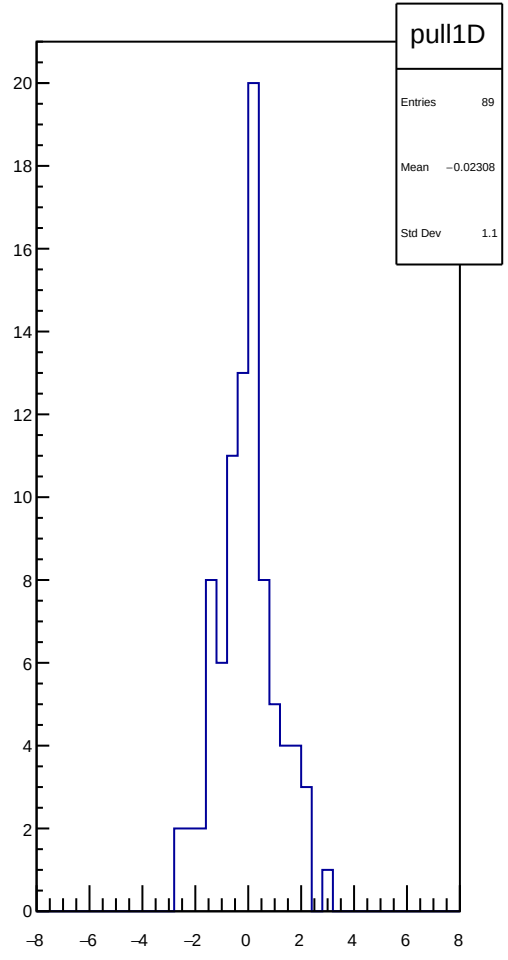

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.92 / 88
p0 −12.59 ± 1.552
pull
Entries 89
Mean 142.2
Std Dev 0

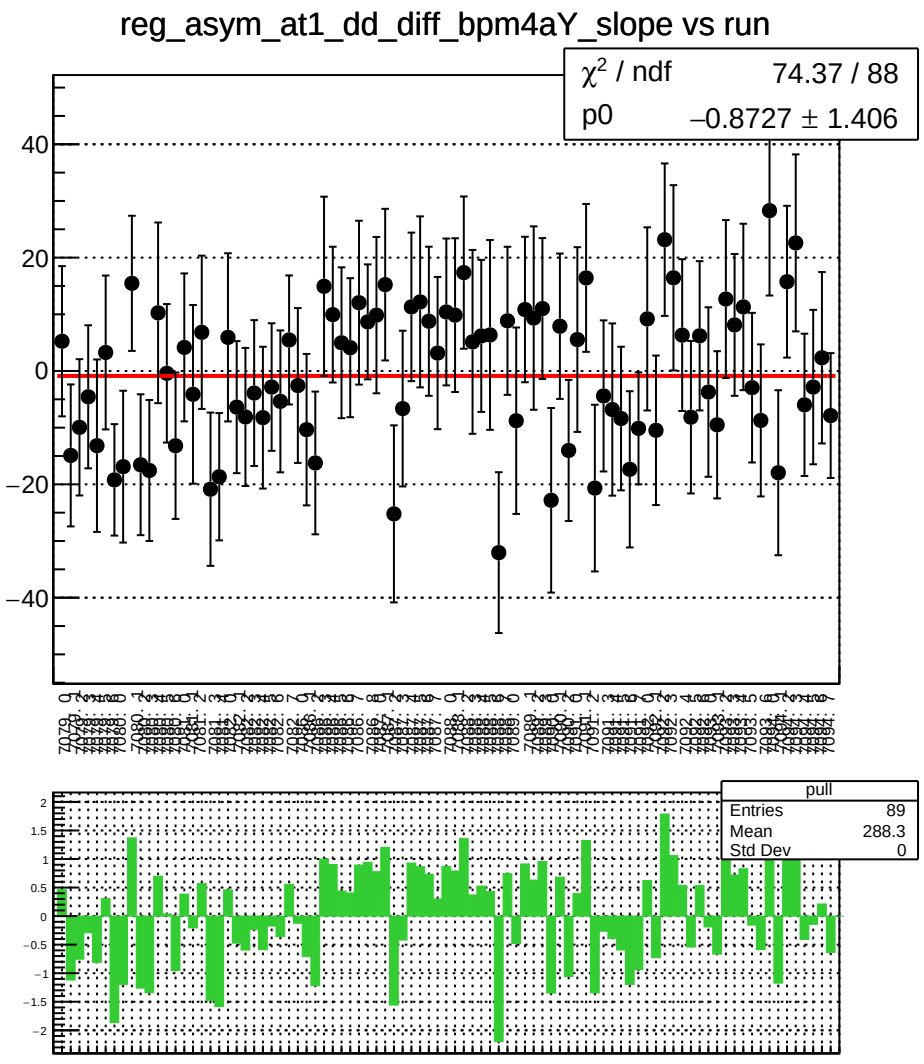

pull1D
Entries 89
Mean 0.02229
Std Dev 0.988

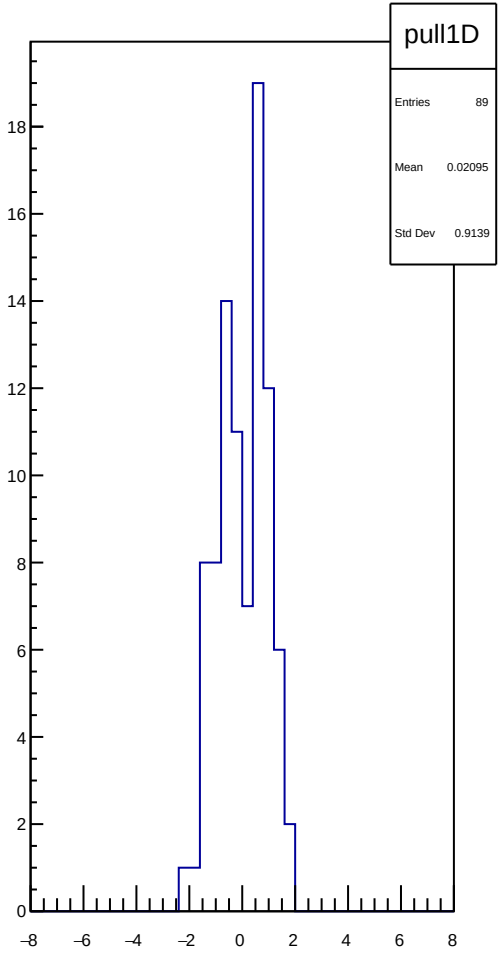

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 908 / 88
p0 −19.65 ± 0.07224
pull
Entries 89
Mean 653.6
Std Dev 0

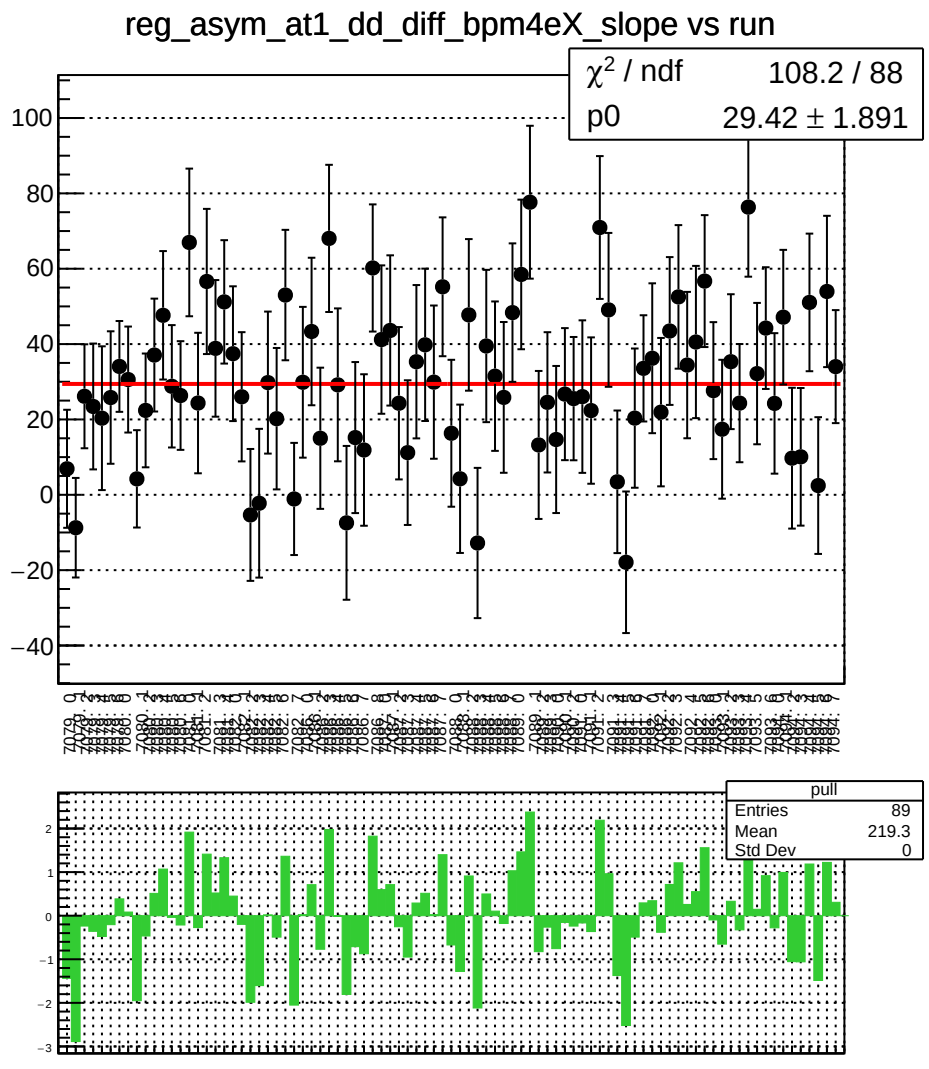

pull1D
Entries 89
Mean −0.1927
Std Dev 3.072

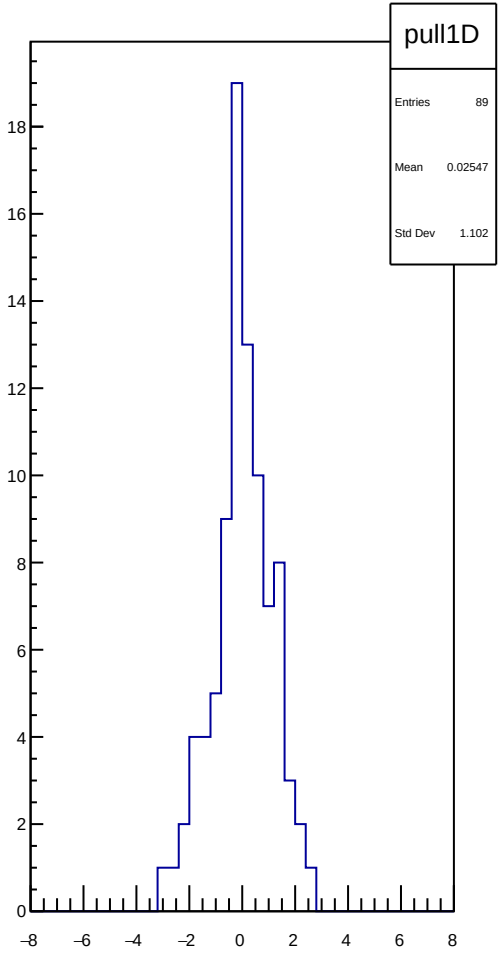

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 107.8 / 88
p0 19.95 ± 1.963
pull
Entries 89
Mean 237.7
Std Dev 0

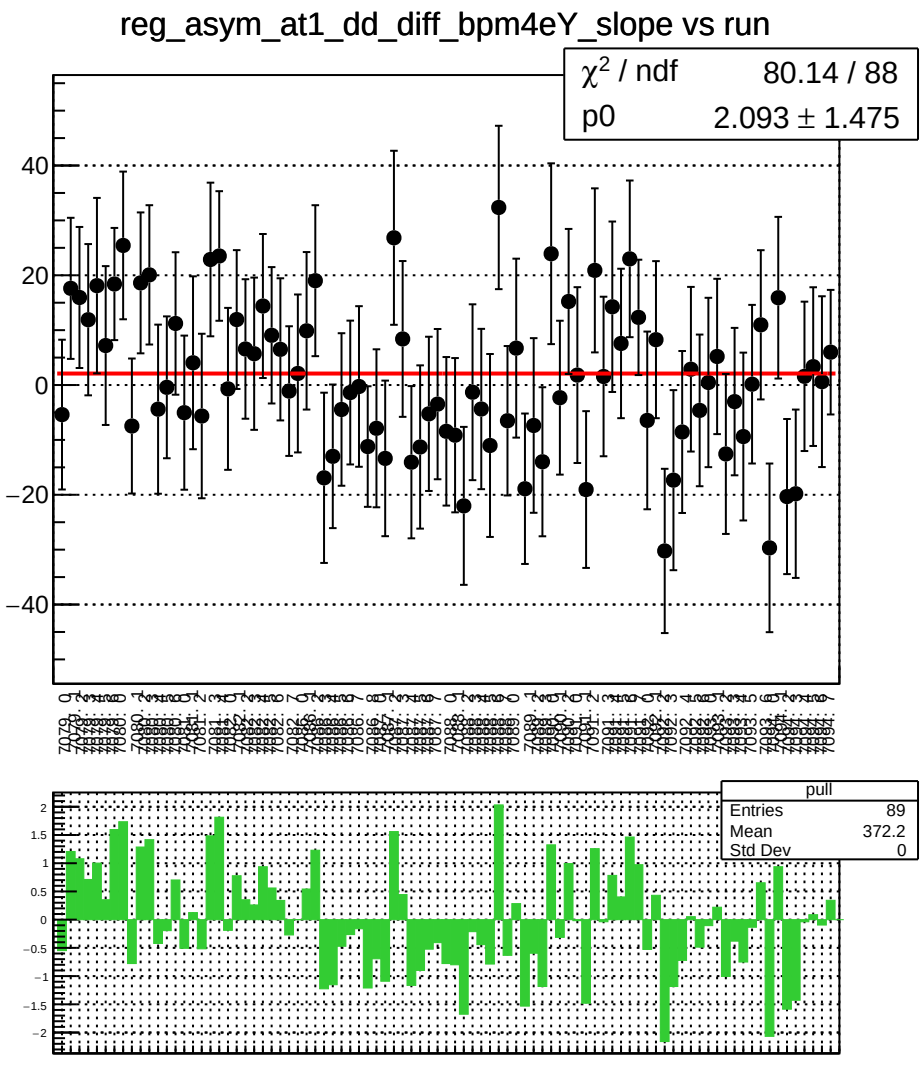

pull1D
Entries 89
Mean −0.02308
Std Dev 1.1

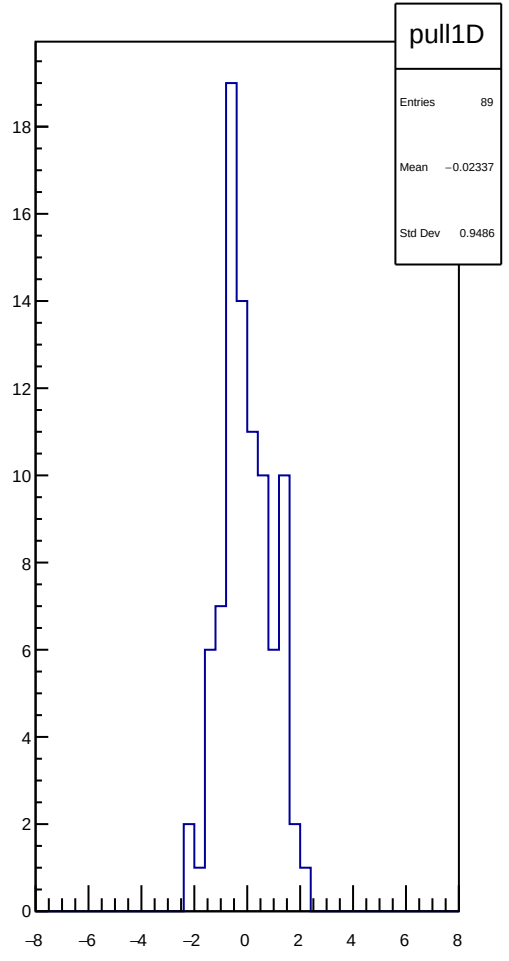

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.37 / 88
p0 −0.8727 ± 1.406
pull
Entries 89
Mean 288.3
Std Dev 0

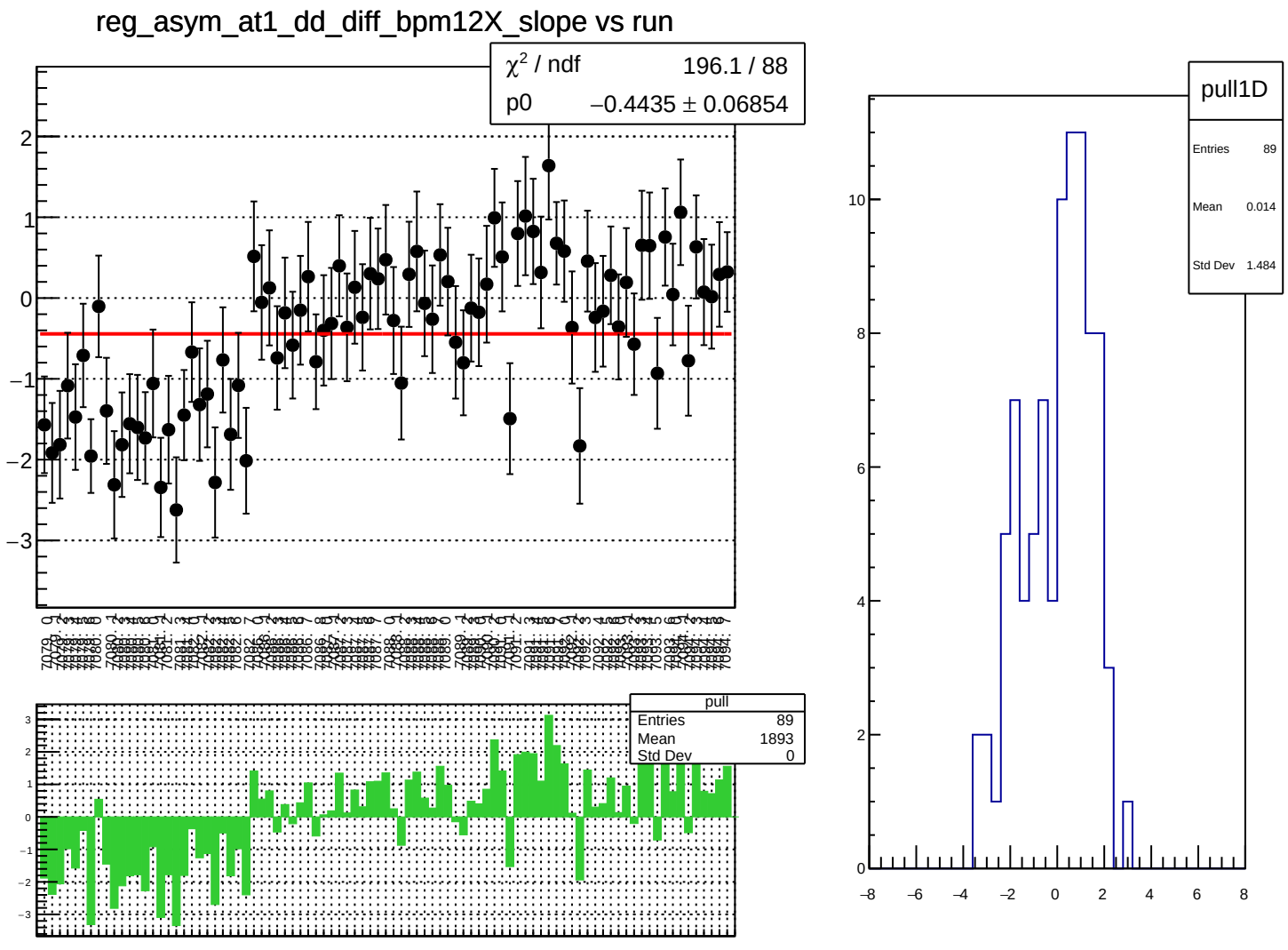

pull1D
Entries 89
Mean 0.02095
Std Dev 0.9139

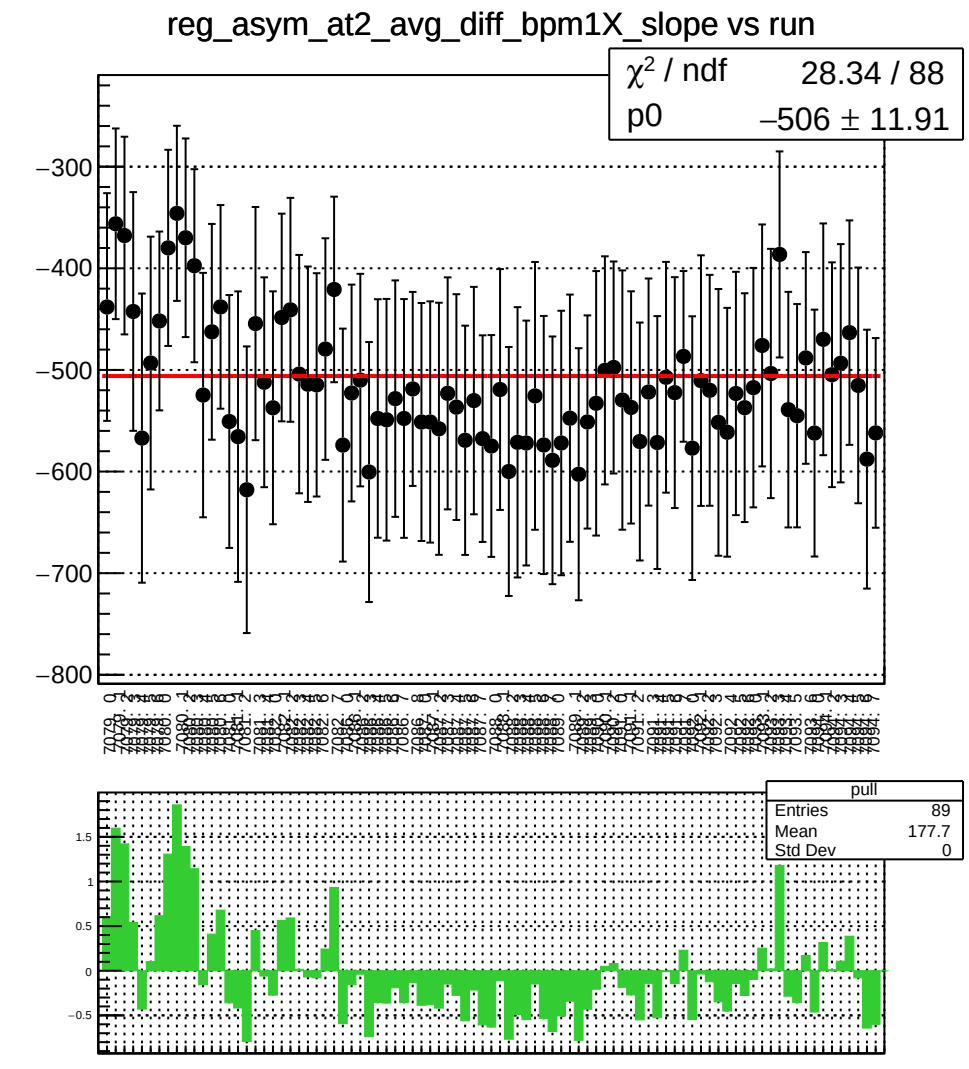

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 108.2 / 88
p0 29.42 ± 1.891
pull
Entries 89
Mean 219.3
Std Dev 0

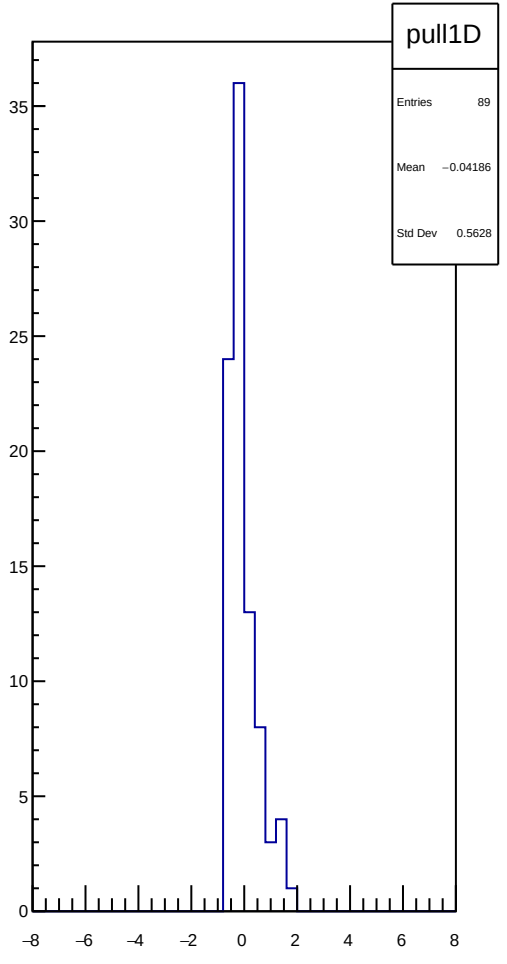

pull1D
Entries 89
Mean 0.02547
Std Dev 1.102

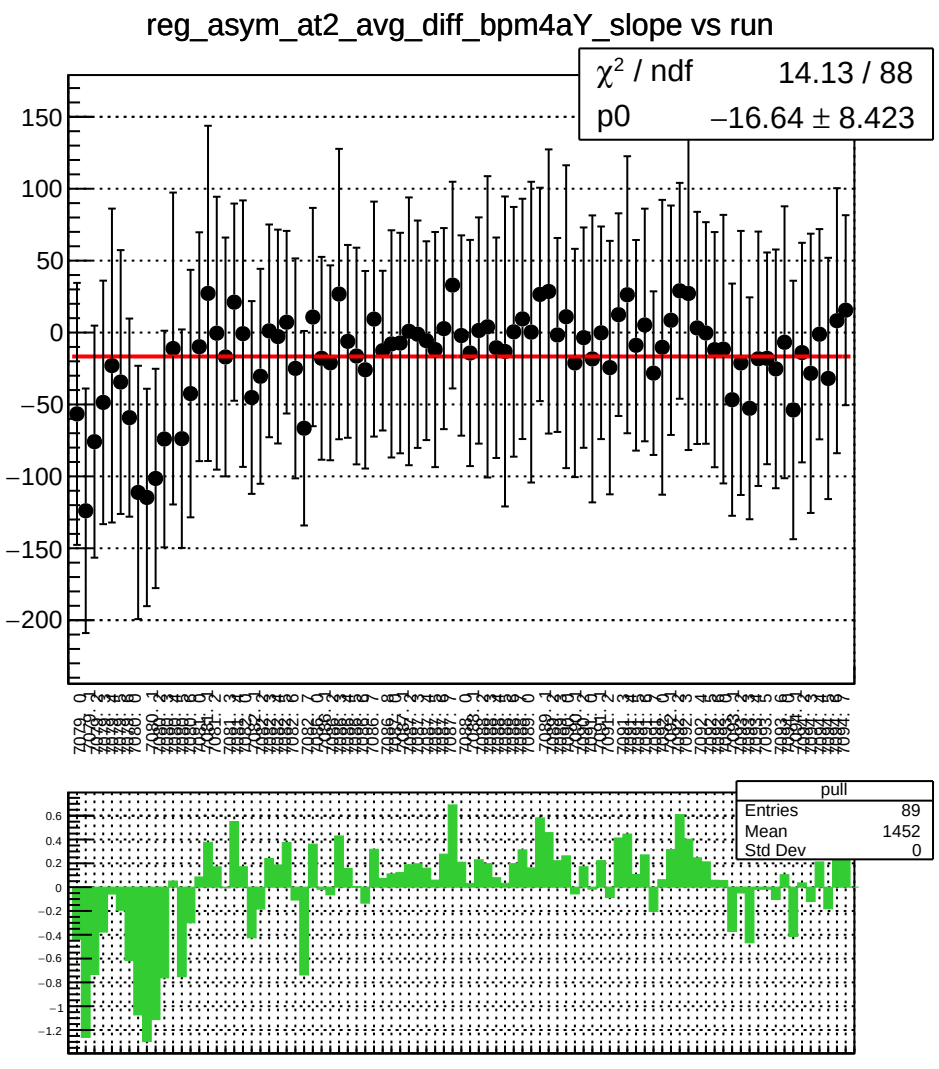

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.14 / 88
p0 2.093 ± 1.475
40
20
0
−20
−40
pull
Entries 89
Mean 372.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

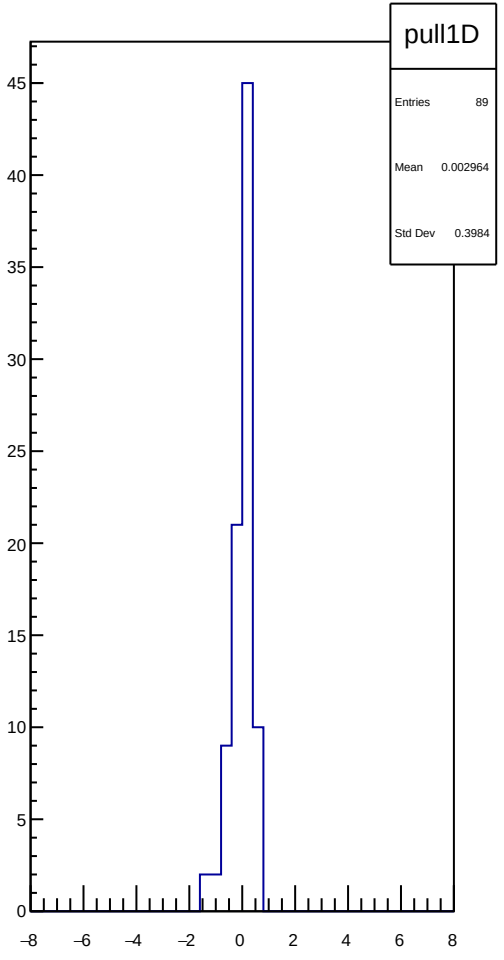

pull1D
Entries 89
Mean −0.02337
Std Dev 0.9486
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

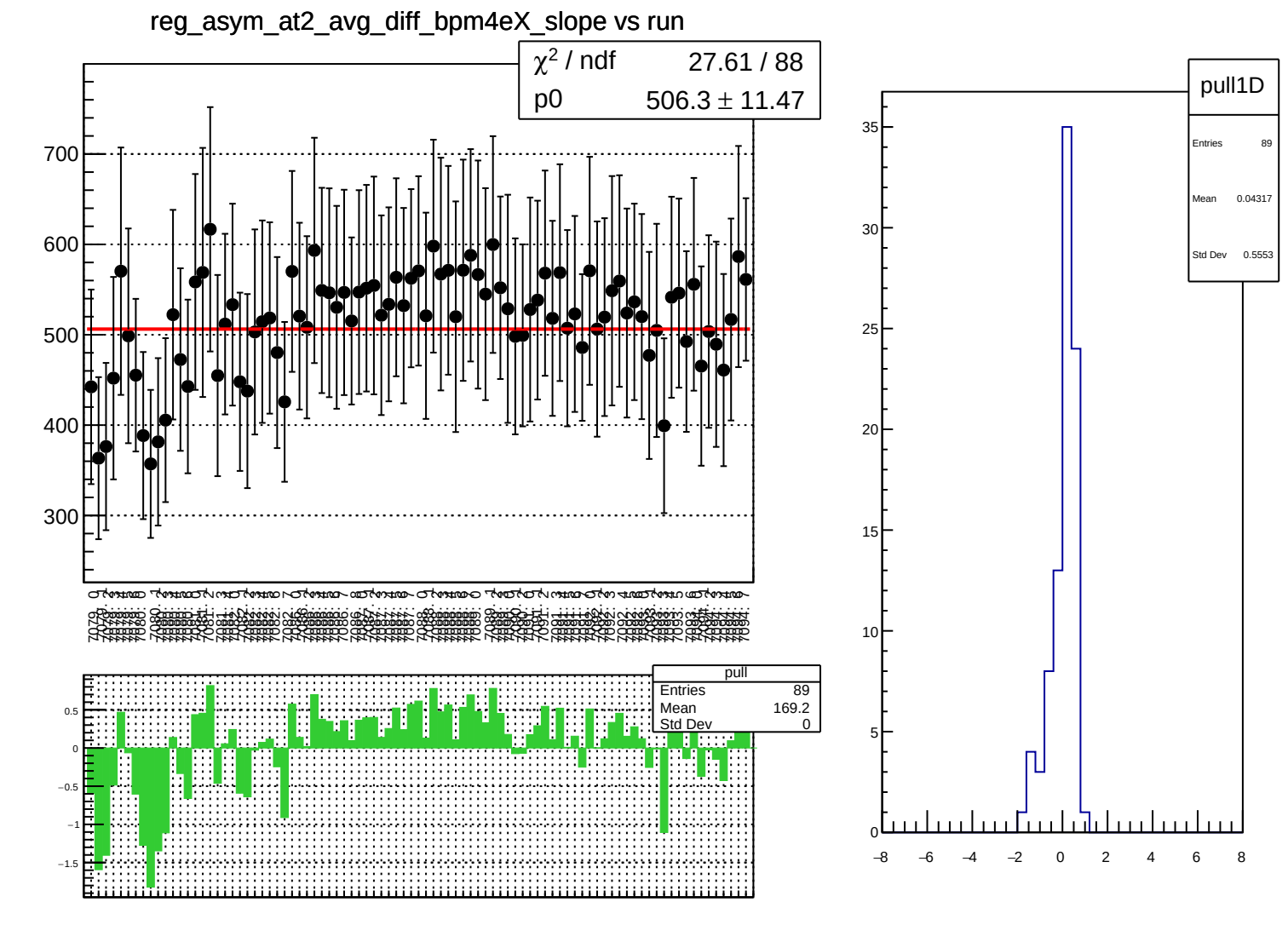

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 196.1 / 88
p0 −0.4435 ± 0.06854
pull
Entries 89
Mean 1893
Std Dev 0
pull1D
Entries 89
Mean 0.014
Std Dev 1.484

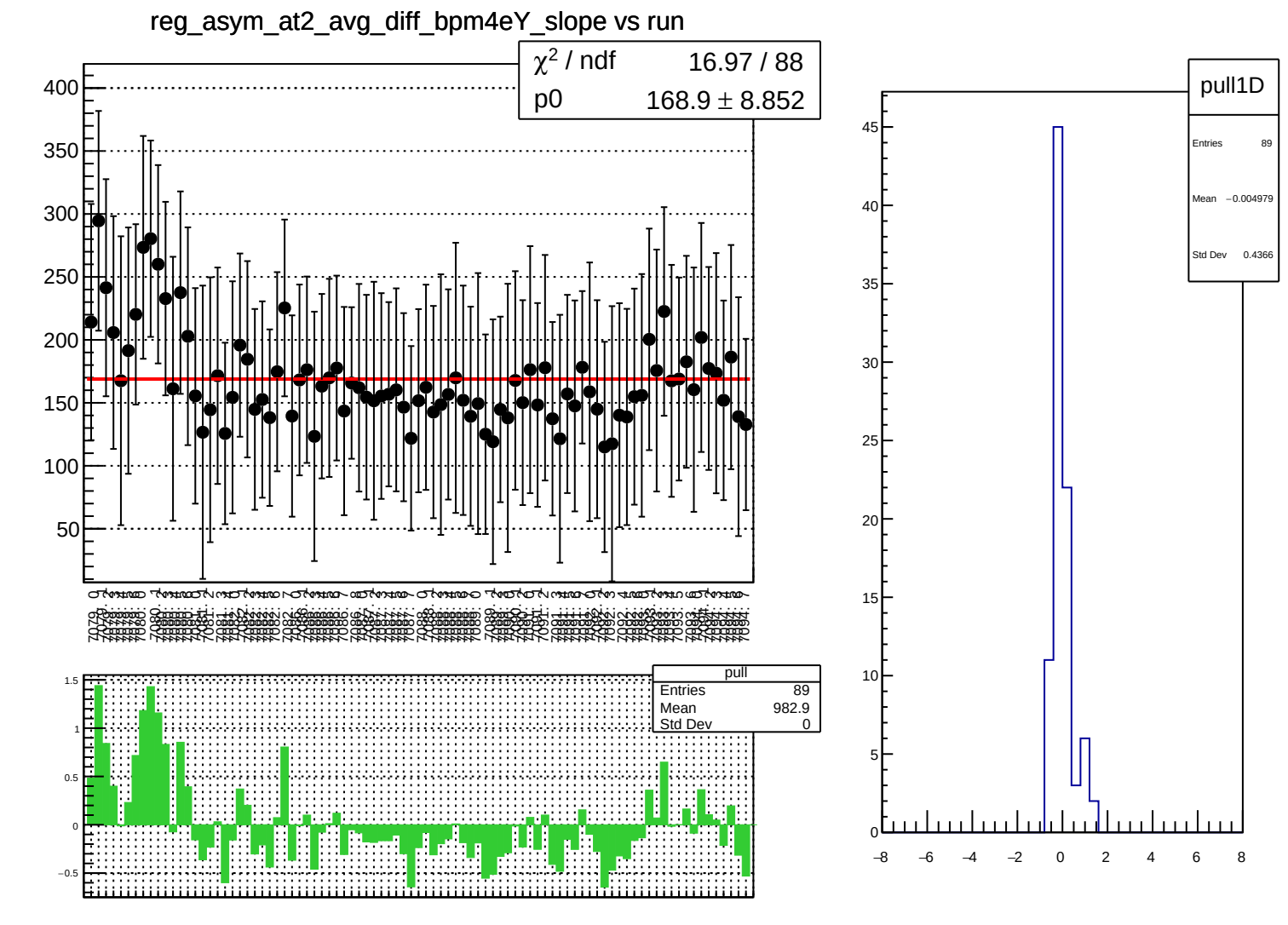

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 28.34 / 88
p0 −506 ± 11.91
−300
−400
−500
−600
−700
−800
pull
Entries 89
Mean 177.7
Std Dev 0
1.5
1
0.5
0
−0.5

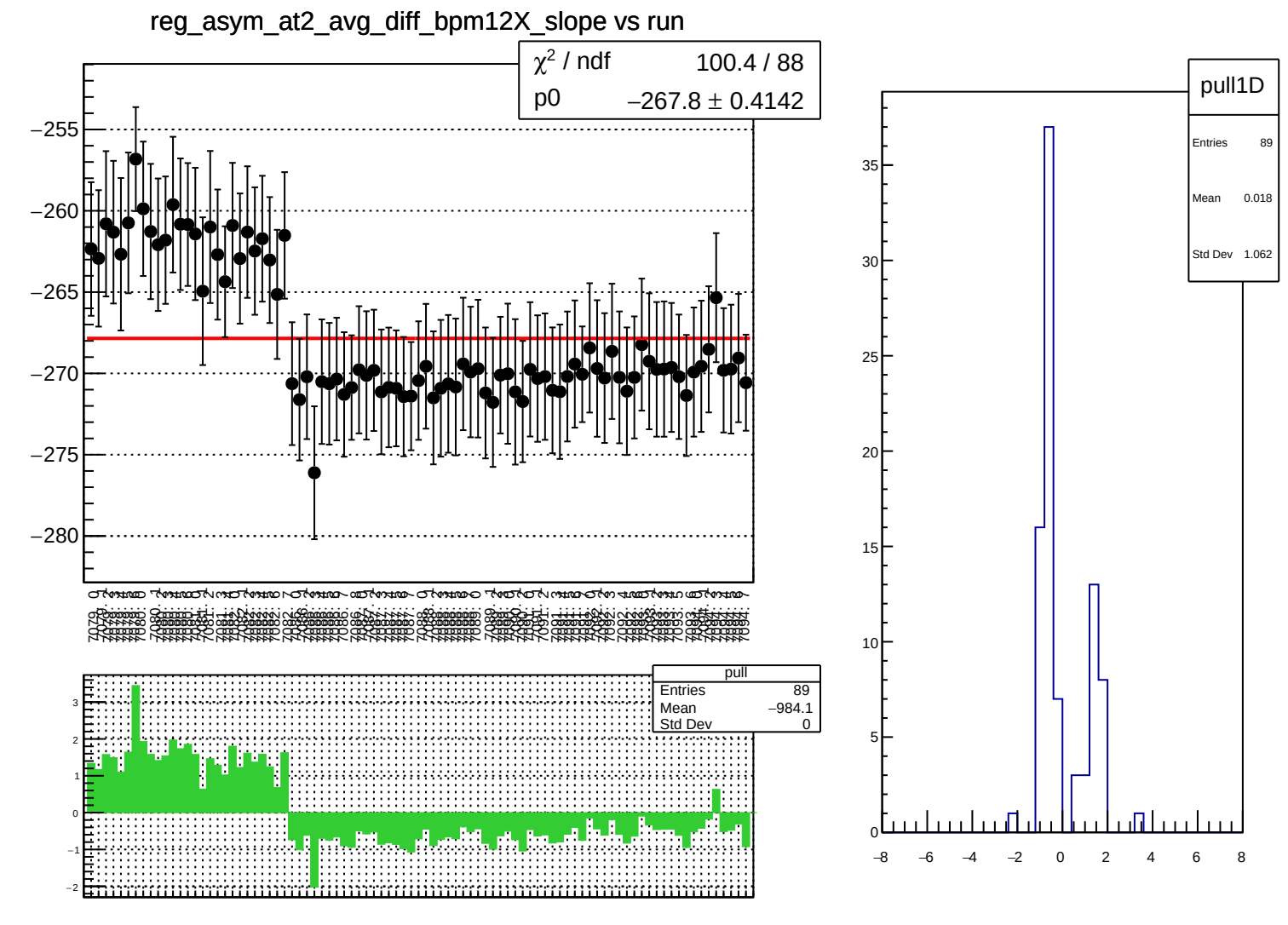

pull1D
Entries 89
Mean −0.04186
Std Dev 0.5628
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

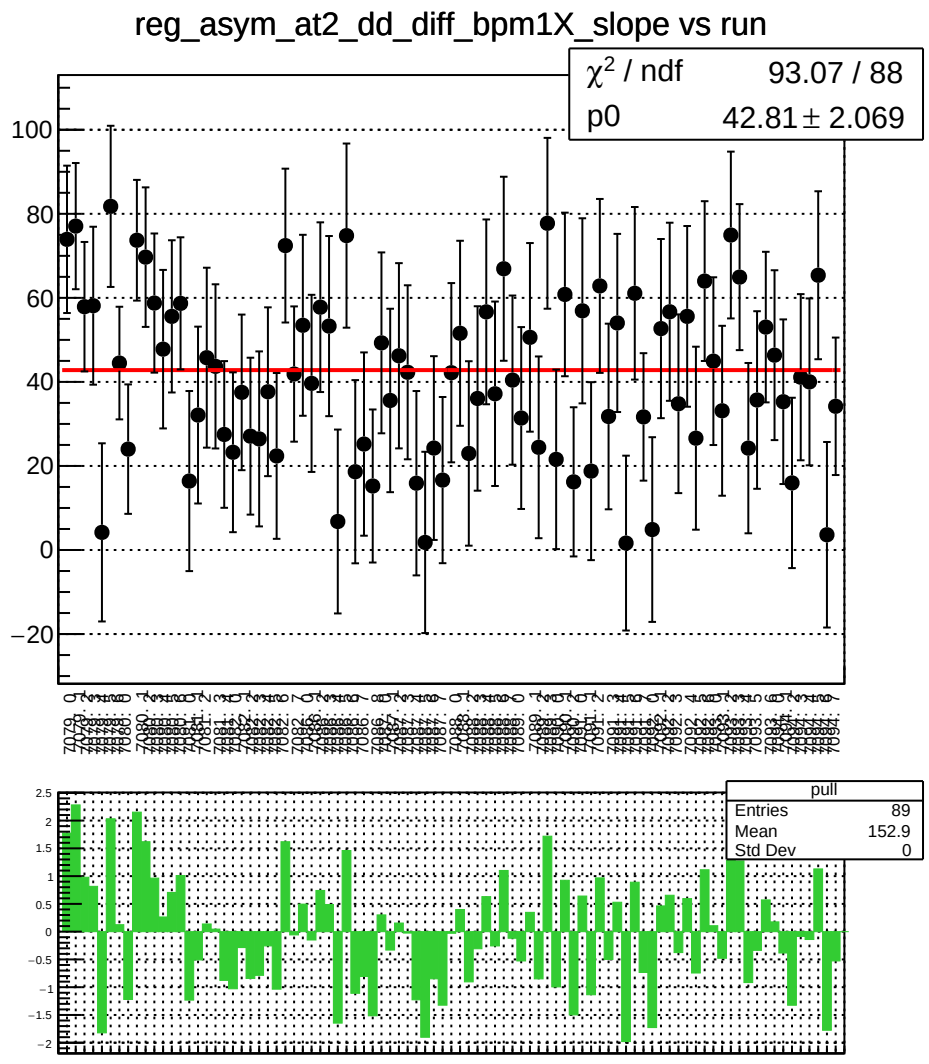

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.13 / 88
p0 −16.64 ± 8.423
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 1452
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

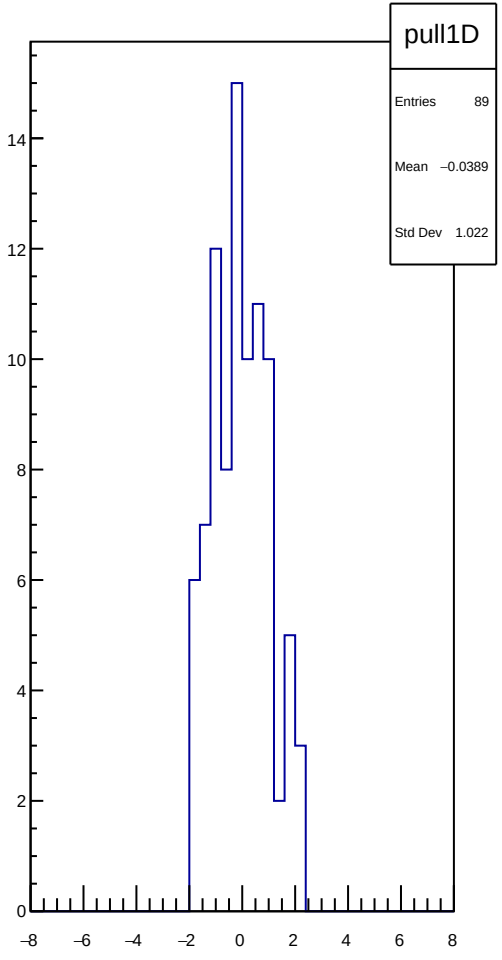

pull1D
Entries 89
Mean 0.002964
Std Dev 0.3984
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

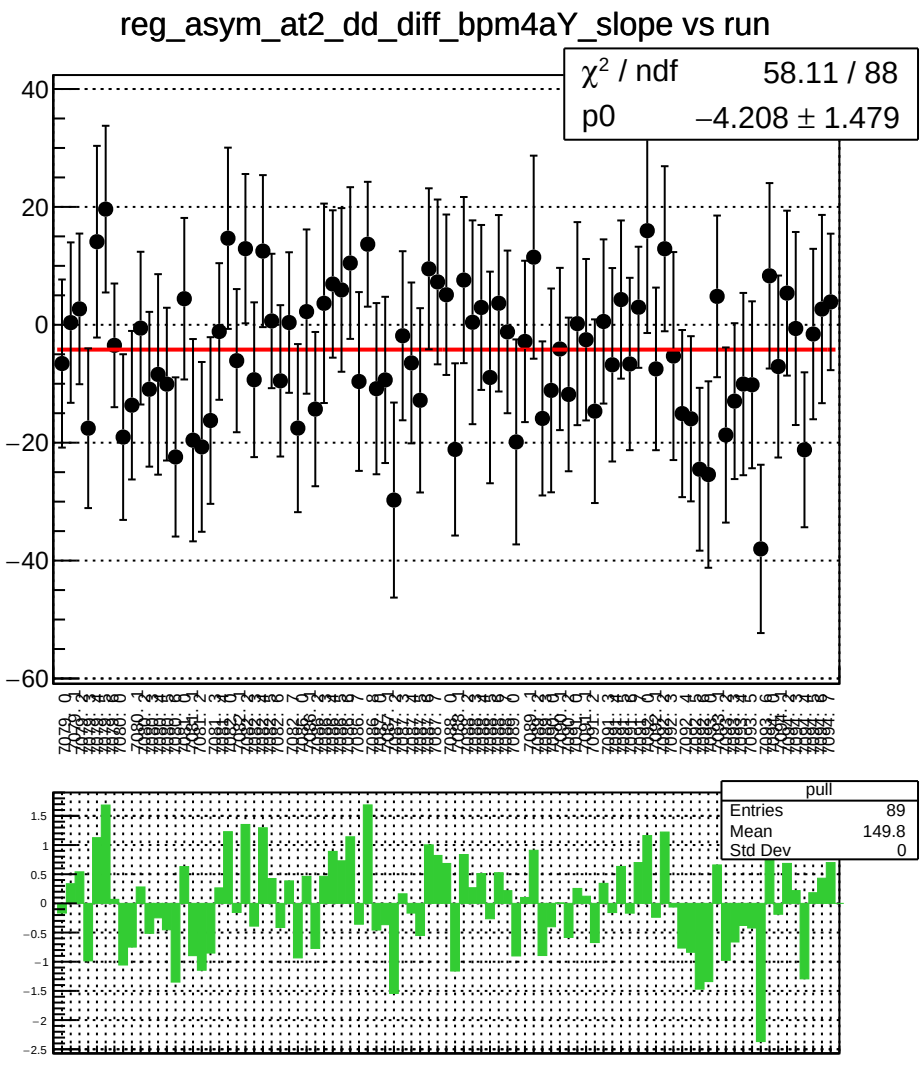

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.61 / 88
p0 506.3 ± 11.47
700
600
500
400
300
pull
Entries 89
Mean 169.2
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.04317
Std Dev 0.5553
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

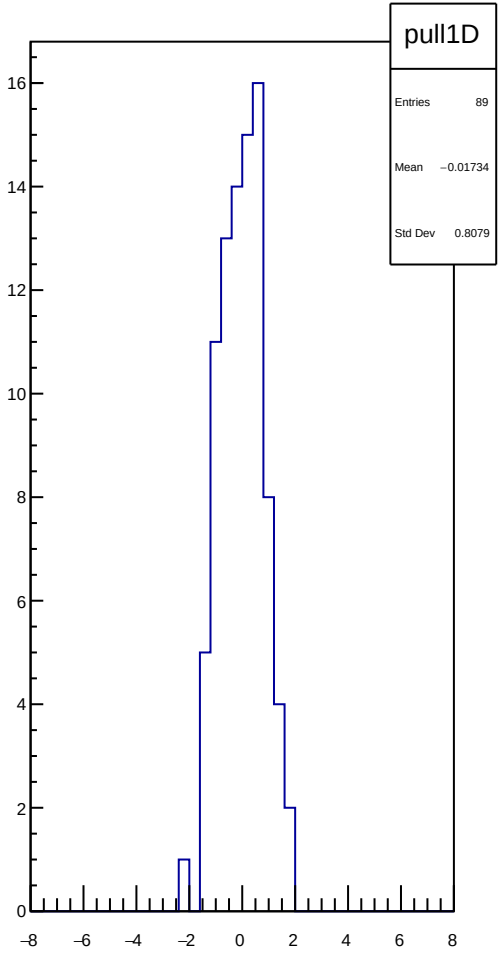

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.97 / 88
p0 168.9 ± 8.852
pull
Entries 89
Mean 982.9
Std Dev 0
pull1D
Entries 89
Mean −0.004979
Std Dev 0.4366

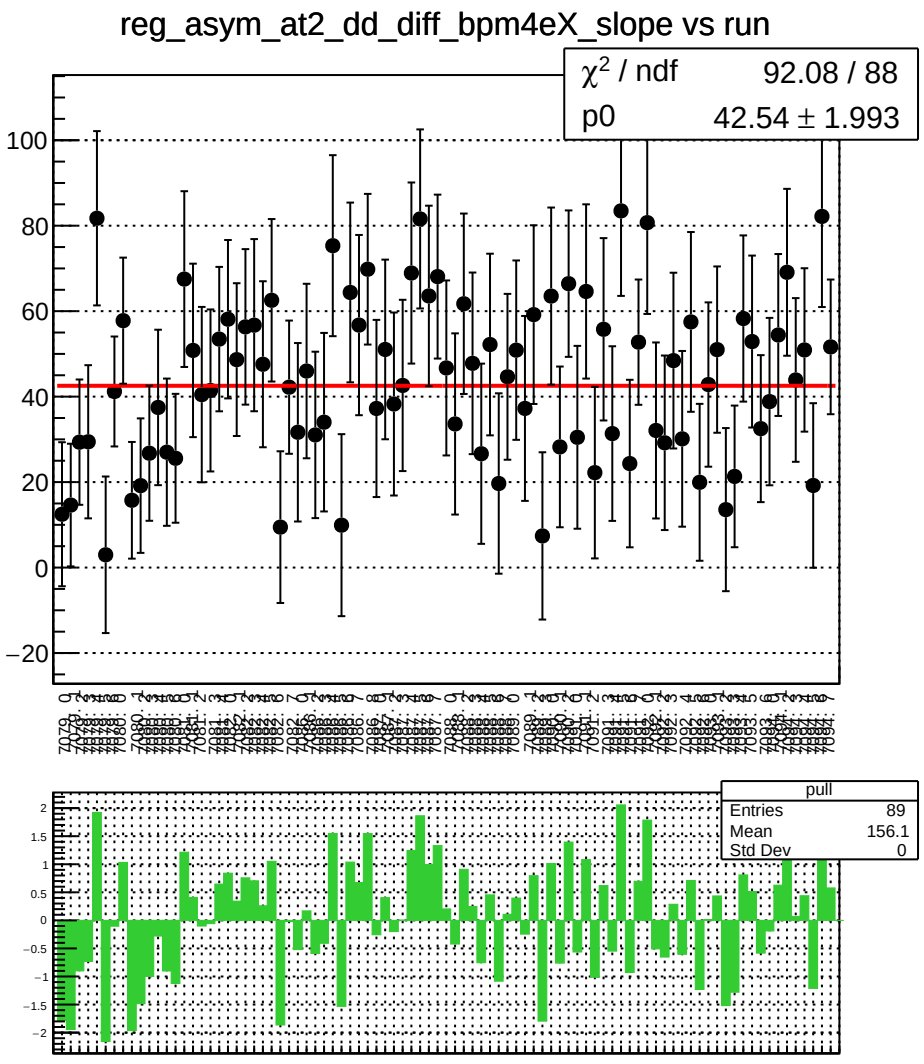

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 100.4 / 88
p0 −267.8 ± 0.4142
pull
Entries 89
Mean −984.1
Std Dev 0
pull1D
Entries 89
Mean 0.018
Std Dev 1.062

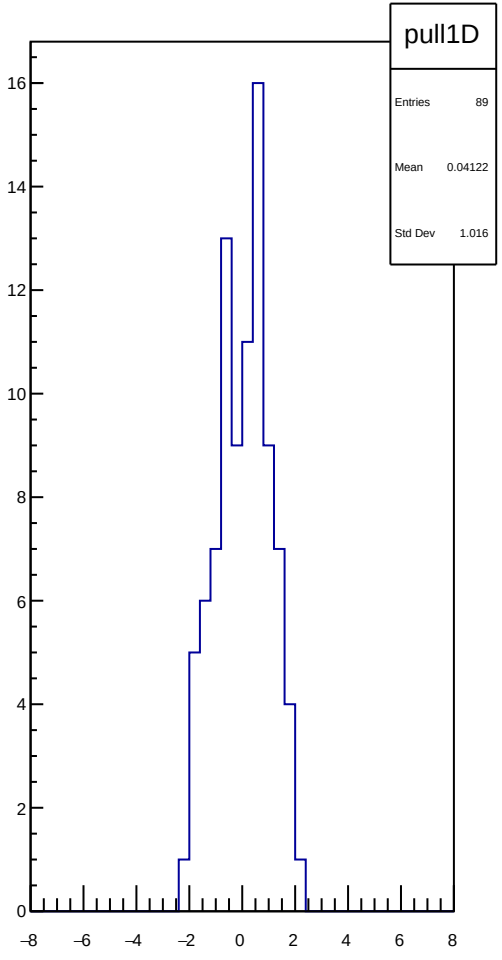

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 93.07 / 88
p0 42.81 ± 2.069
pull
Entries 89
Mean 152.9
Std Dev 0

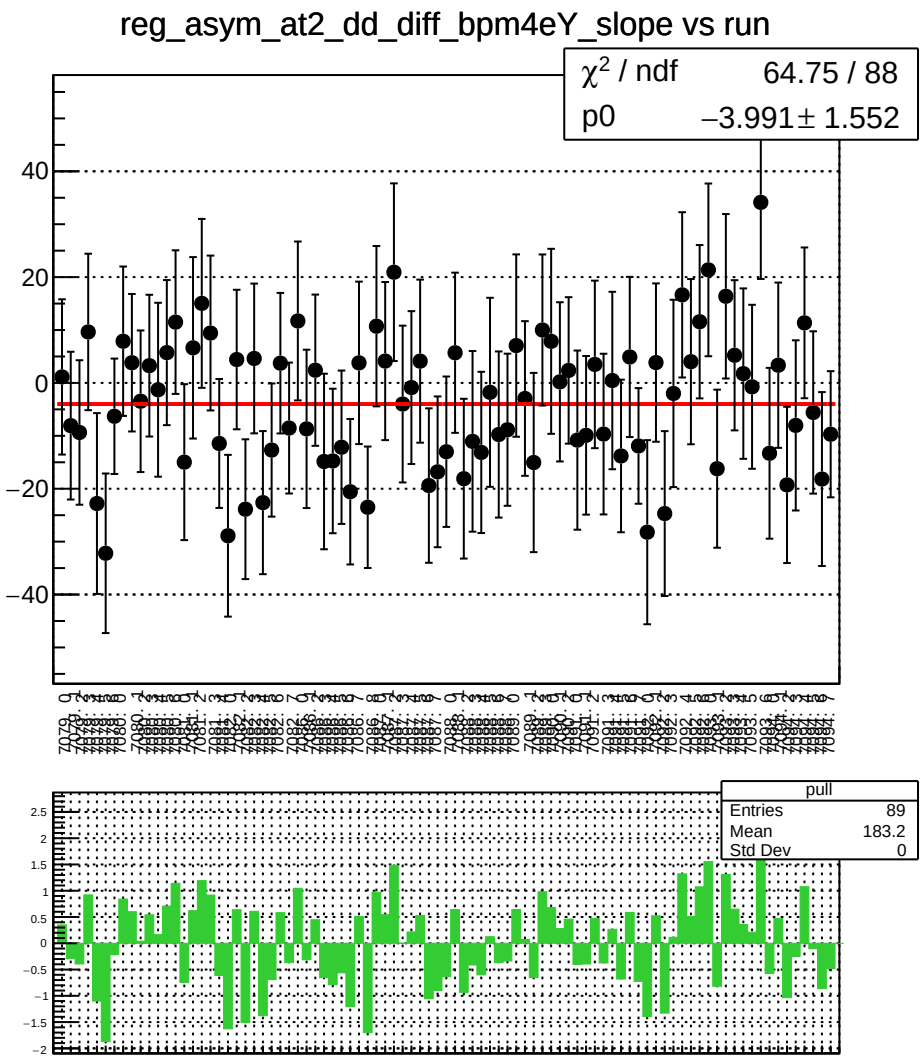

pull1D
Entries 89
Mean −0.0389
Std Dev 1.022

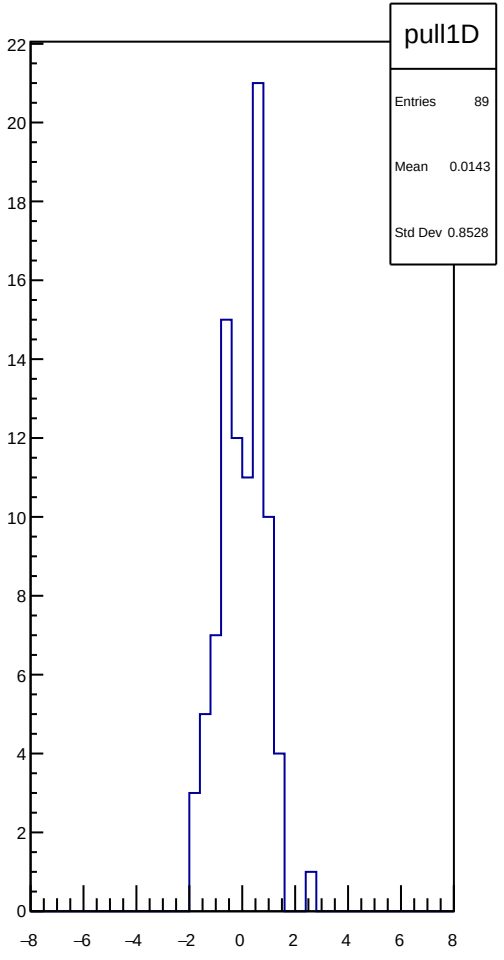

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.11 / 88
p0 −4.208 ± 1.479
pull
Entries 89
Mean 149.8
Std Dev 0

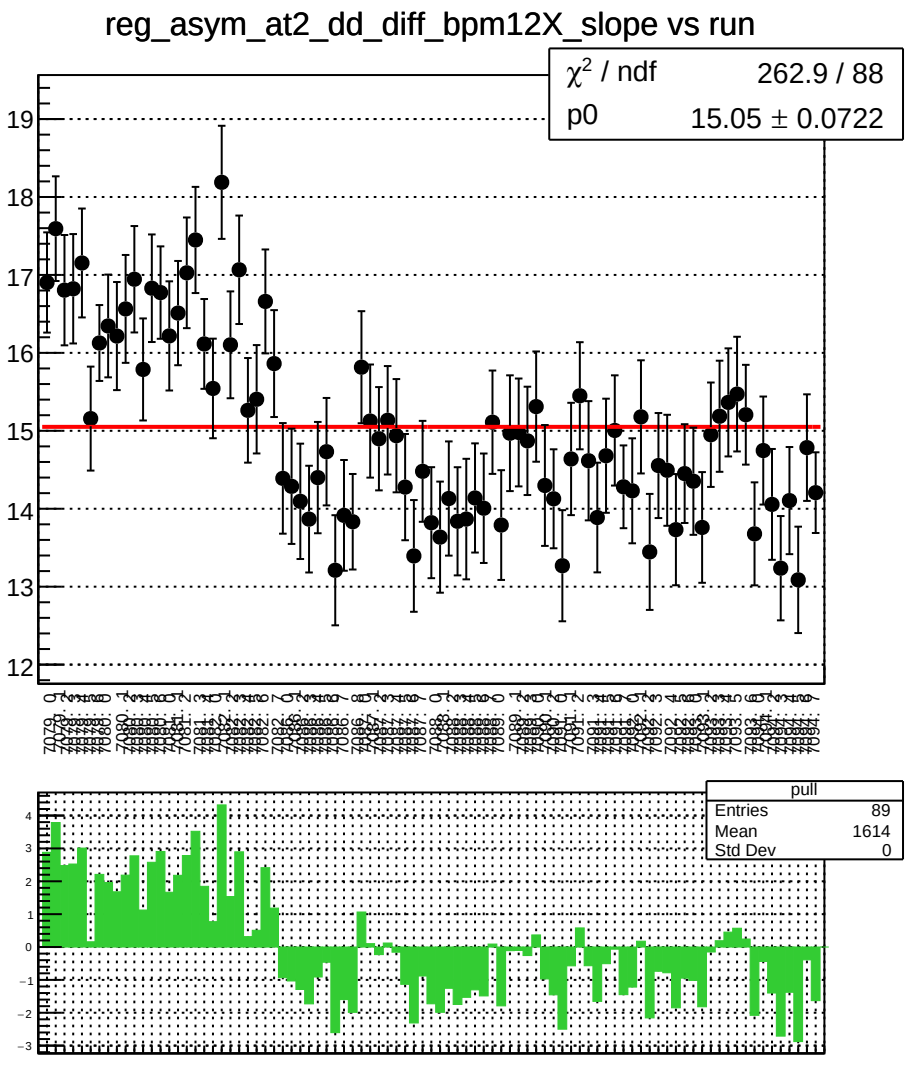

pull1D
Entries 89
Mean −0.01734
Std Dev 0.8079

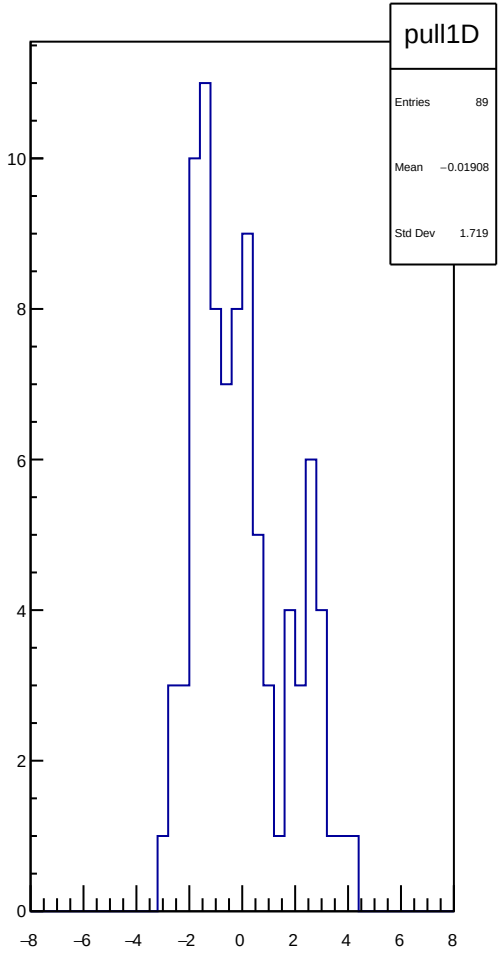

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.08 / 88
p0 42.54 ± 1.993
pull
Entries 89
Mean 156.1
Std Dev 0

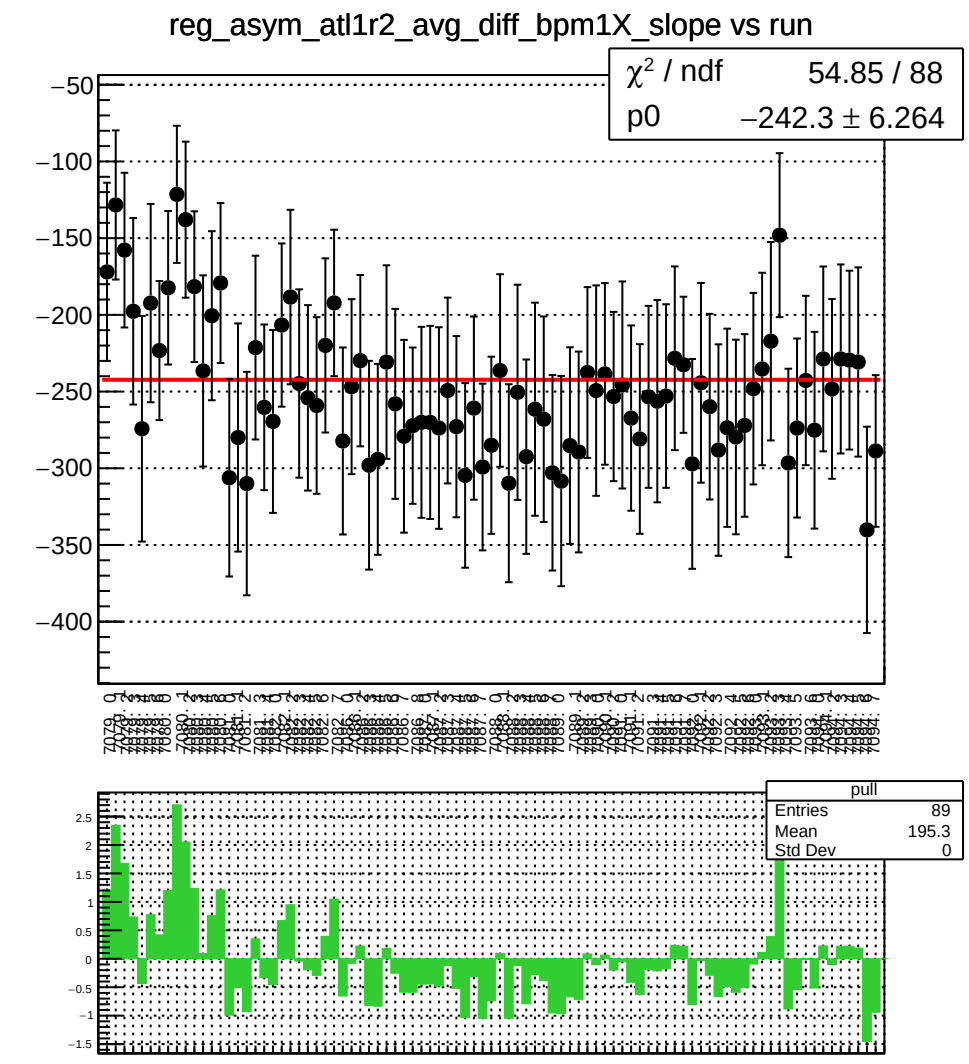

pull1D
Entries 89
Mean 0.04122
Std Dev 1.016

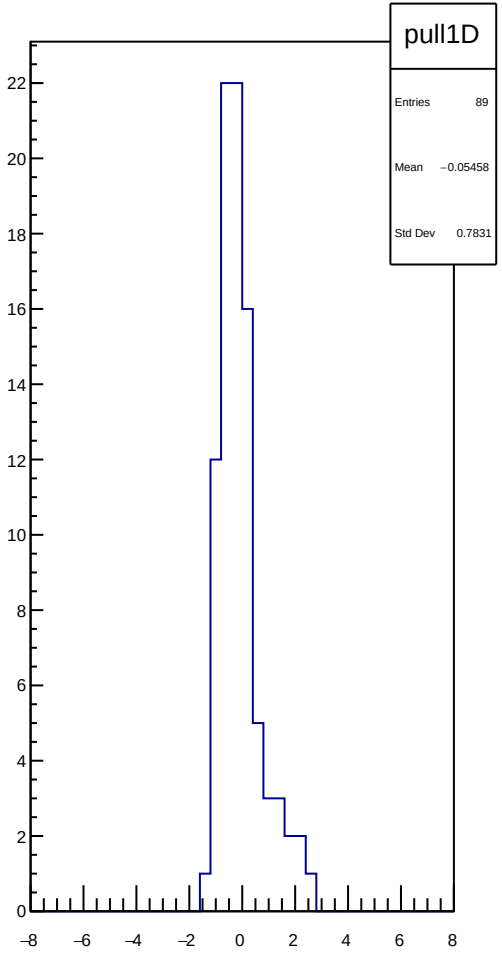

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.75 / 88
p0 −3.991 ± 1.552
pull
Entries 89
Mean 183.2
Std Dev 0

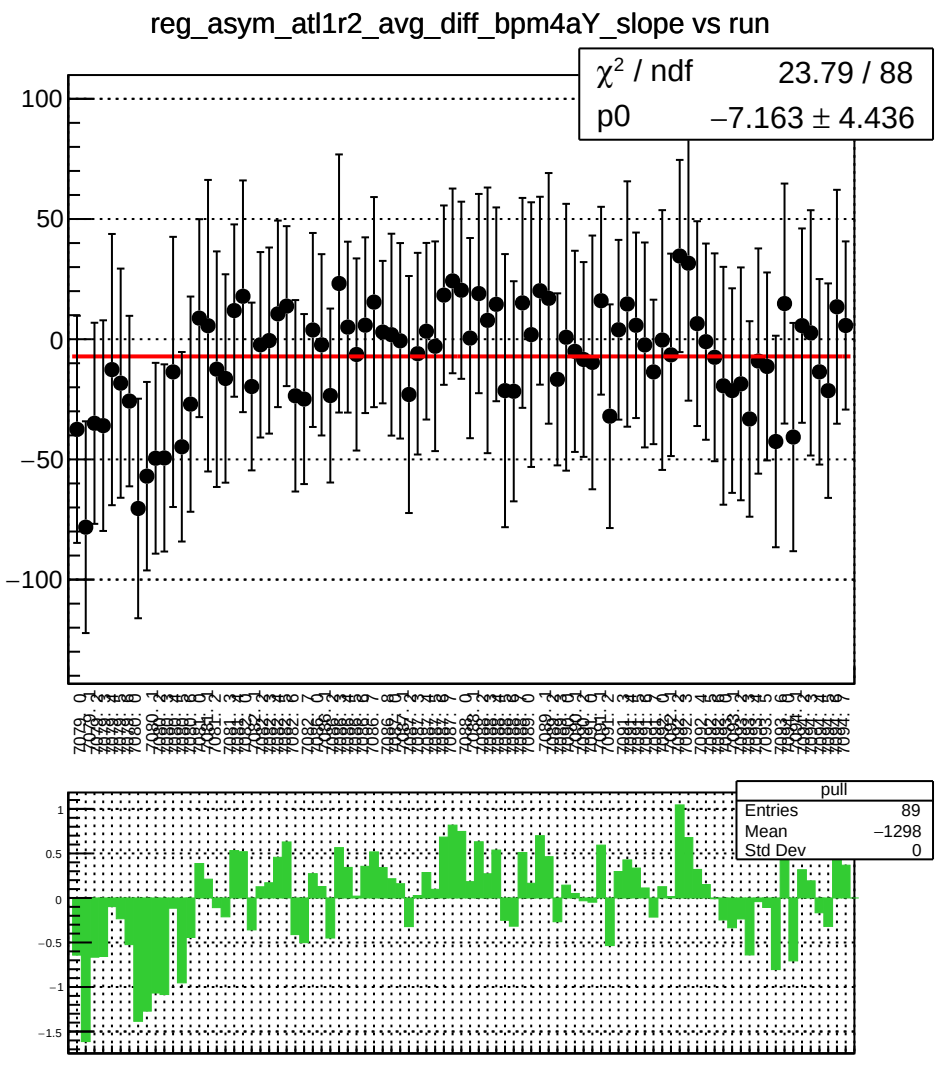

pull1D
Entries 89
Mean 0.0143
Std Dev 0.8528

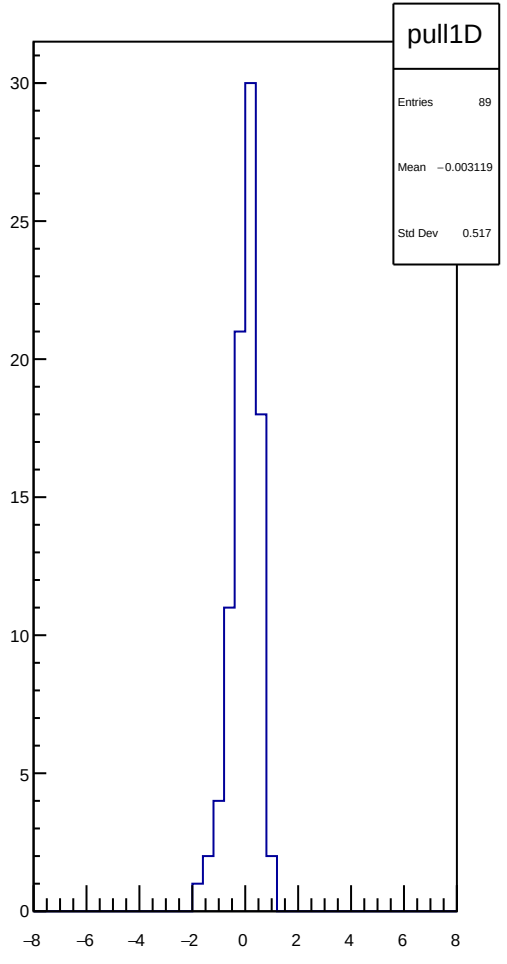

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 262.9 / 88
p0 15.05 ± 0.0722
pull
Entries 89
Mean 1614
Std Dev 0

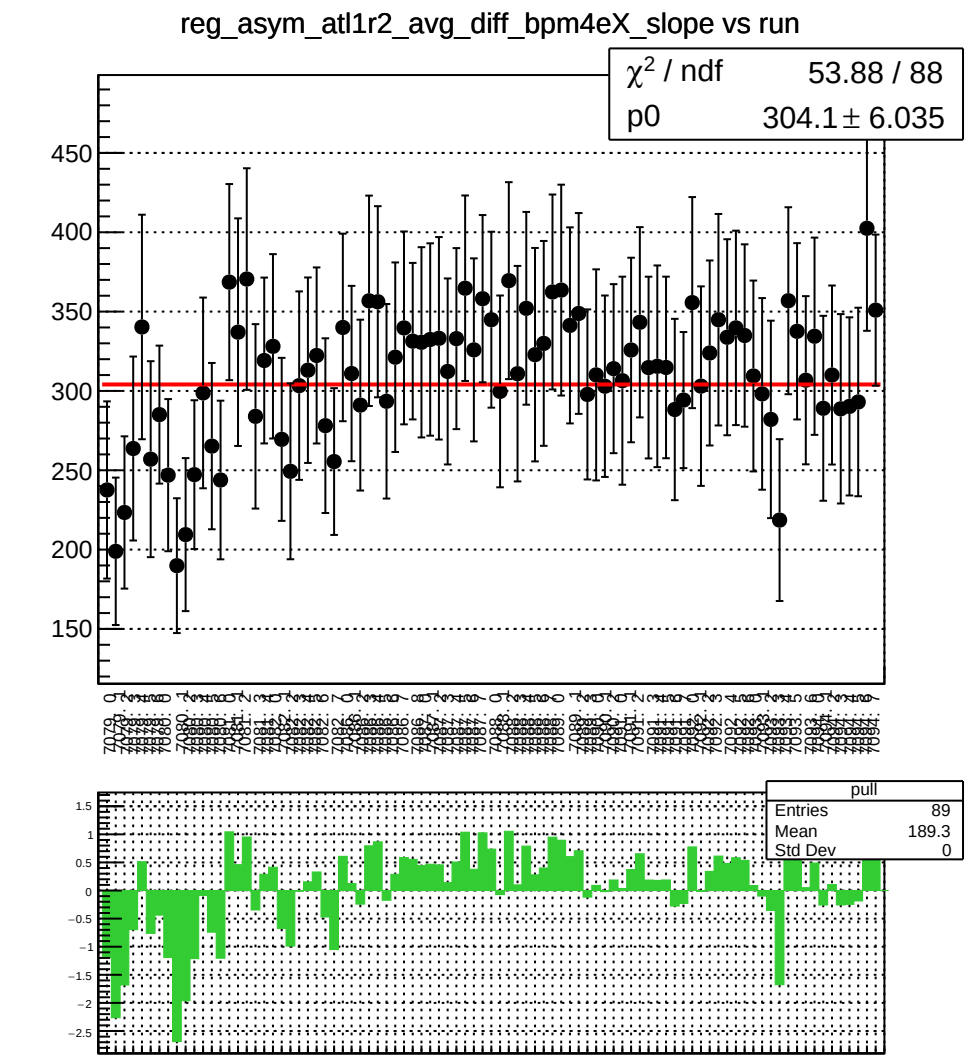

pull1D
Entries 89
Mean −0.01908
Std Dev 1.719

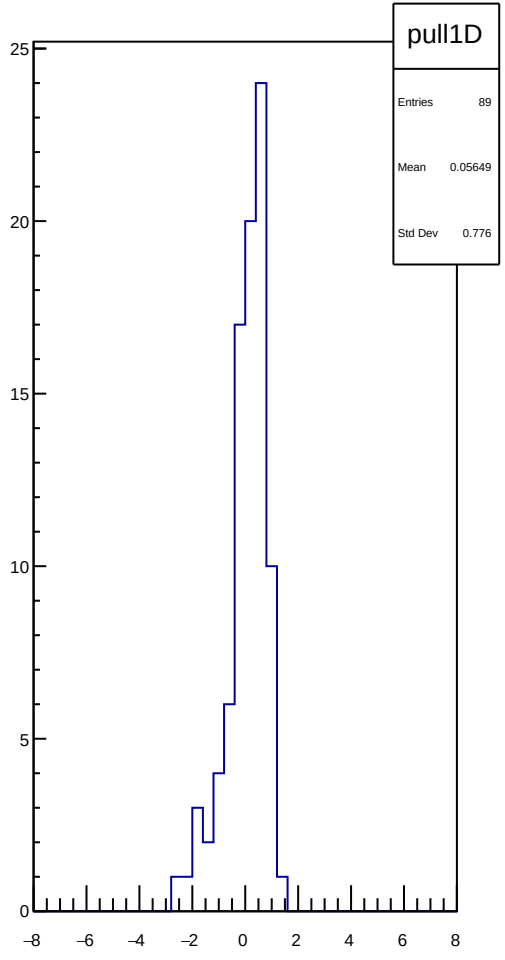

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 54.85 / 88
p0 −242.3 ± 6.264
pull
Entries 89
Mean 195.3
Std Dev 0

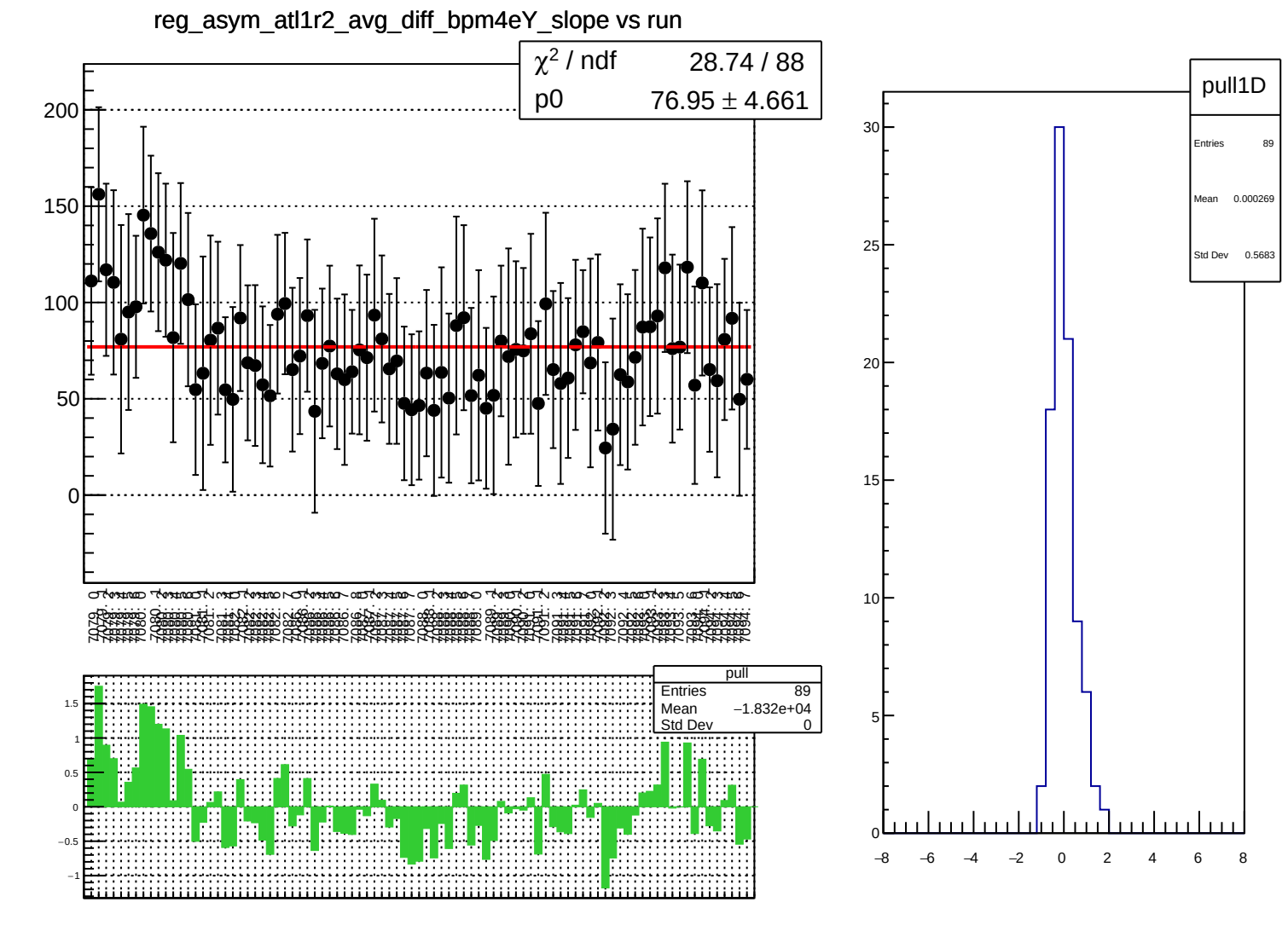

pull1D
Entries 89
Mean −0.05458
Std Dev 0.7831

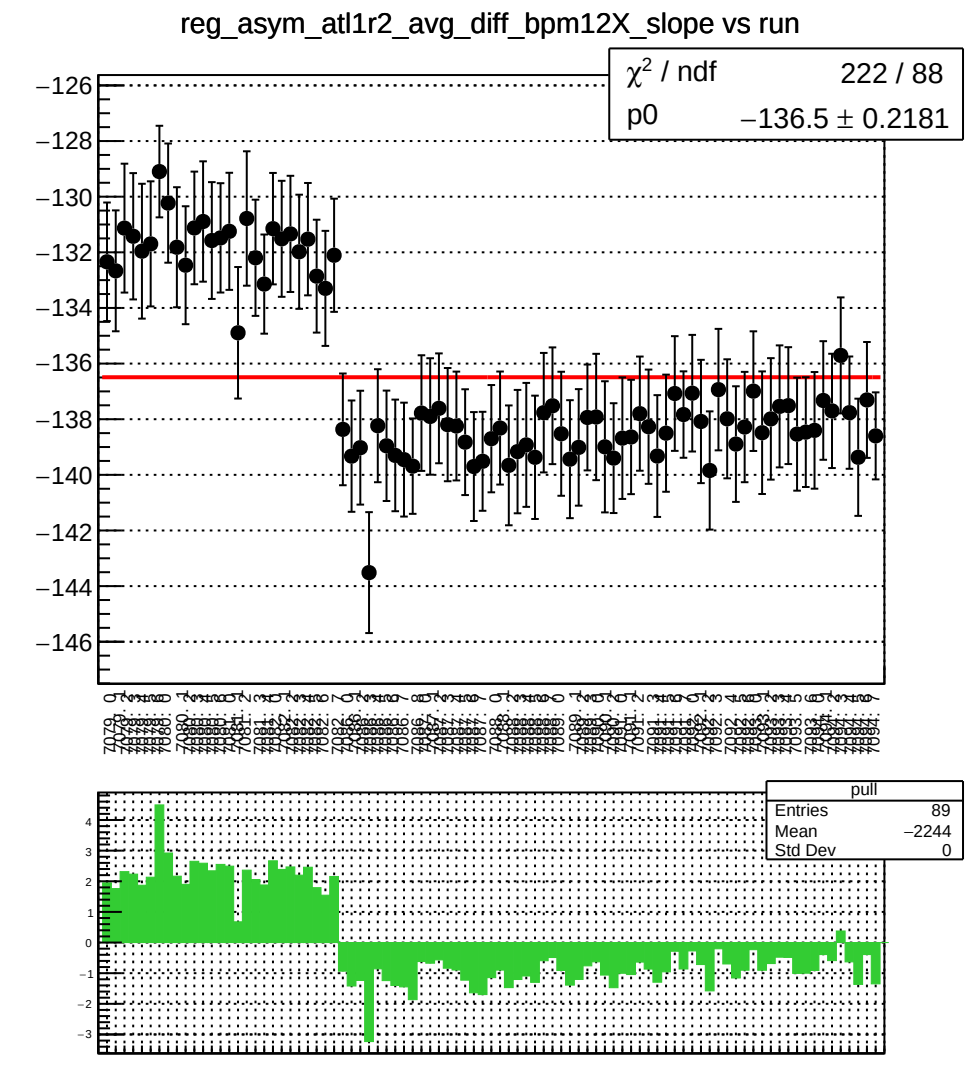

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.79 / 88
p0 −7.163 ± 4.436
100
50
0
−50
−100
pull
Entries 89
Mean −1298
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

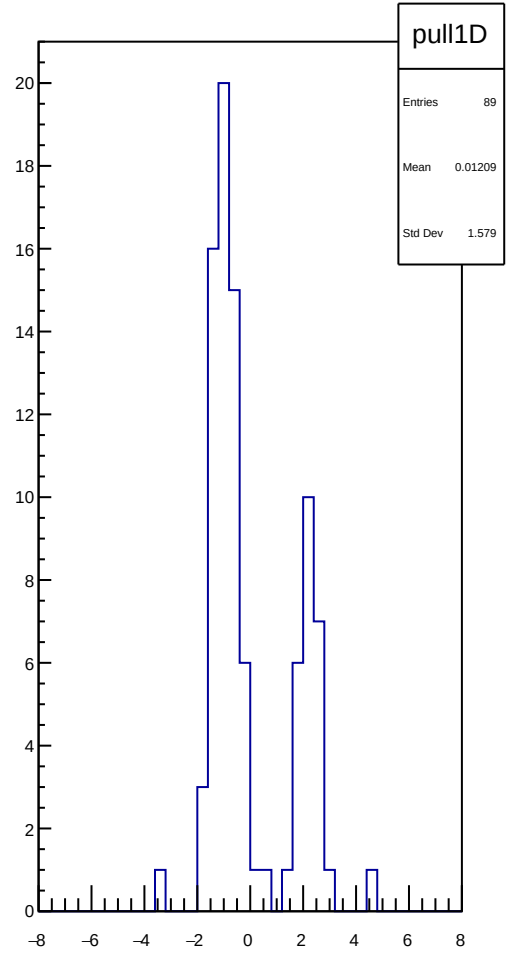

pull1D
Entries 89
Mean −0.003119
Std Dev 0.517
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

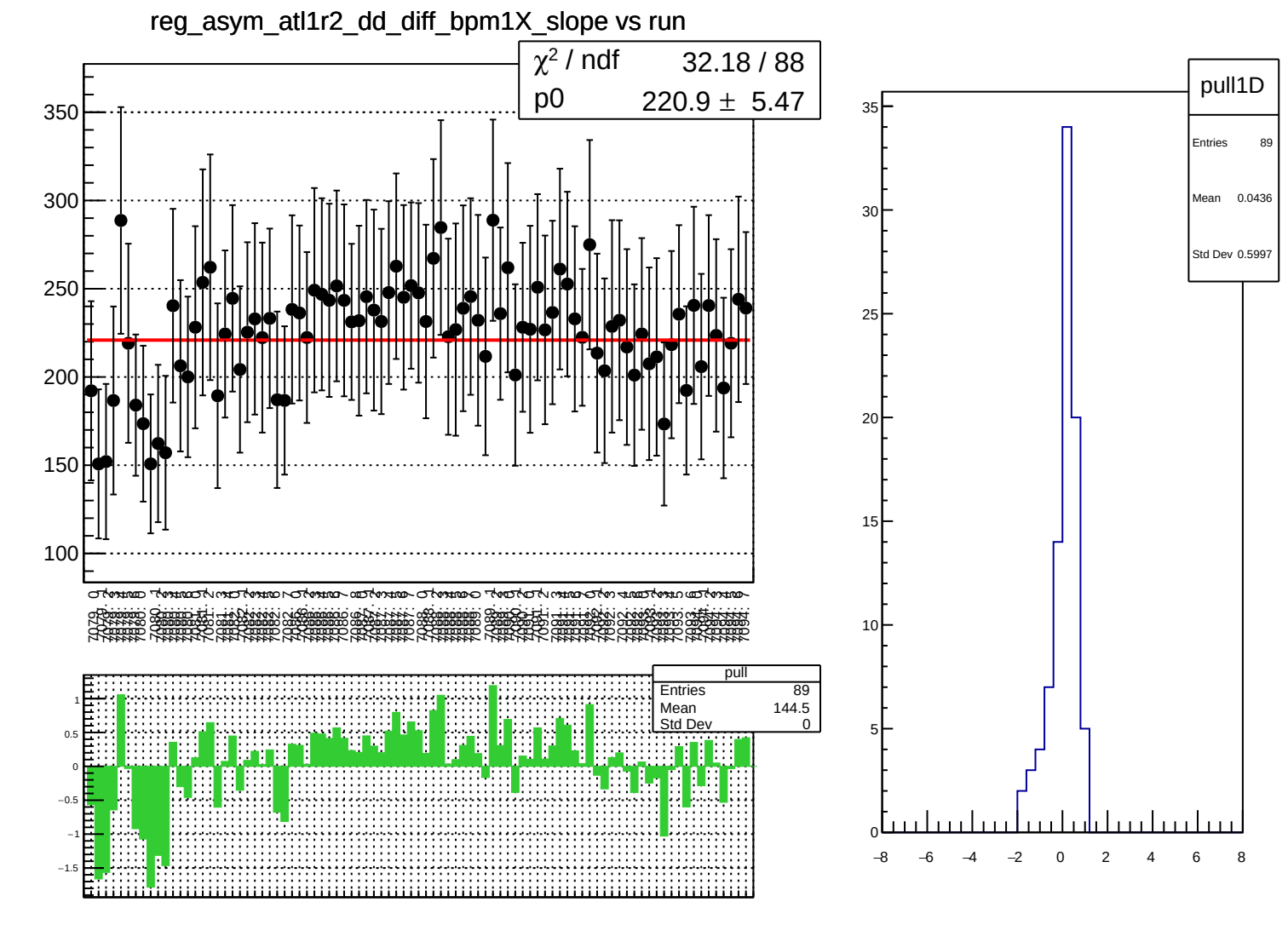

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.88 / 88
p0 304.1 ± 6.035
pull
Entries 89
Mean 189.3
Std Dev 0

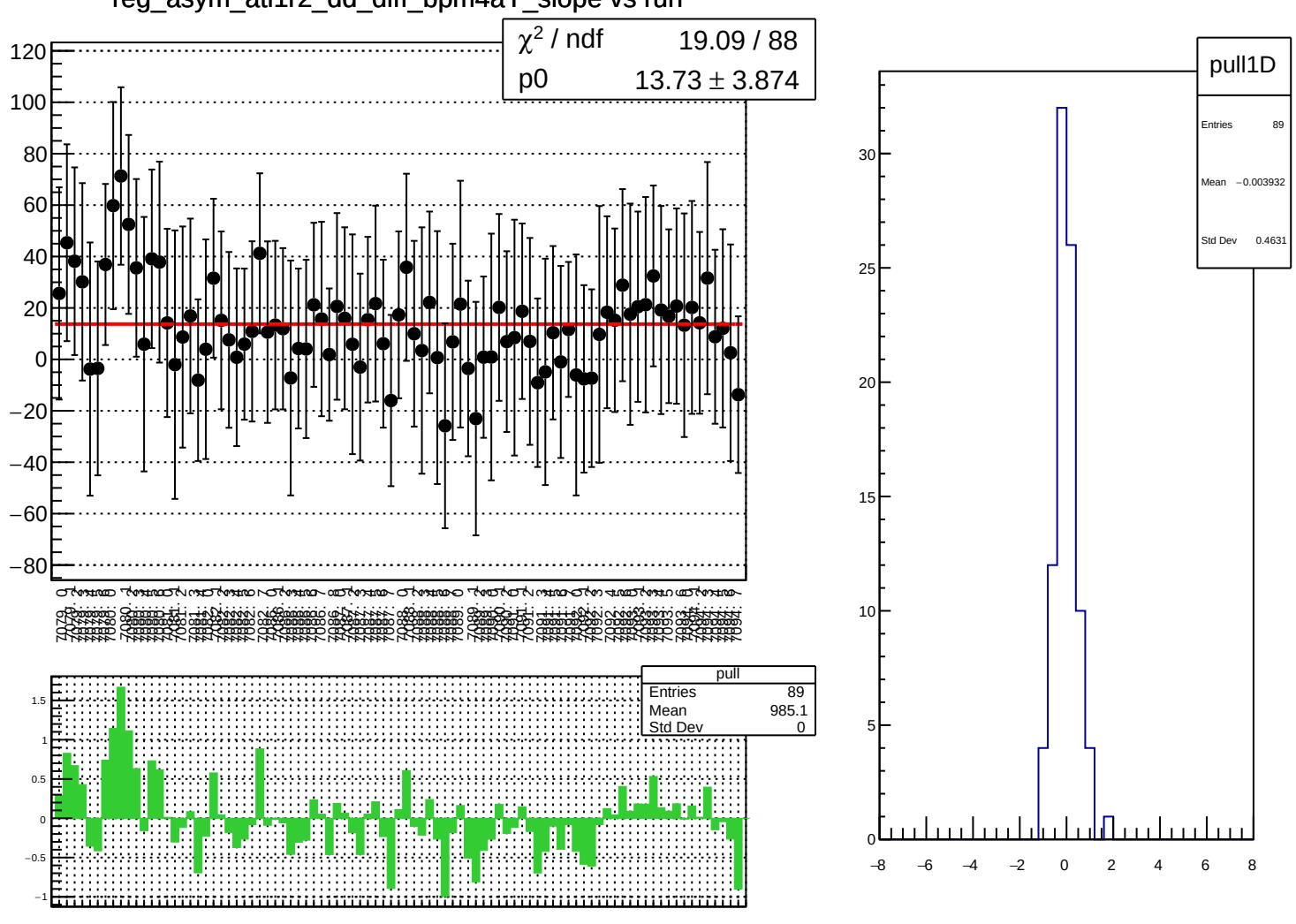

pull1D
Entries 89
Mean 0.05649
Std Dev 0.776

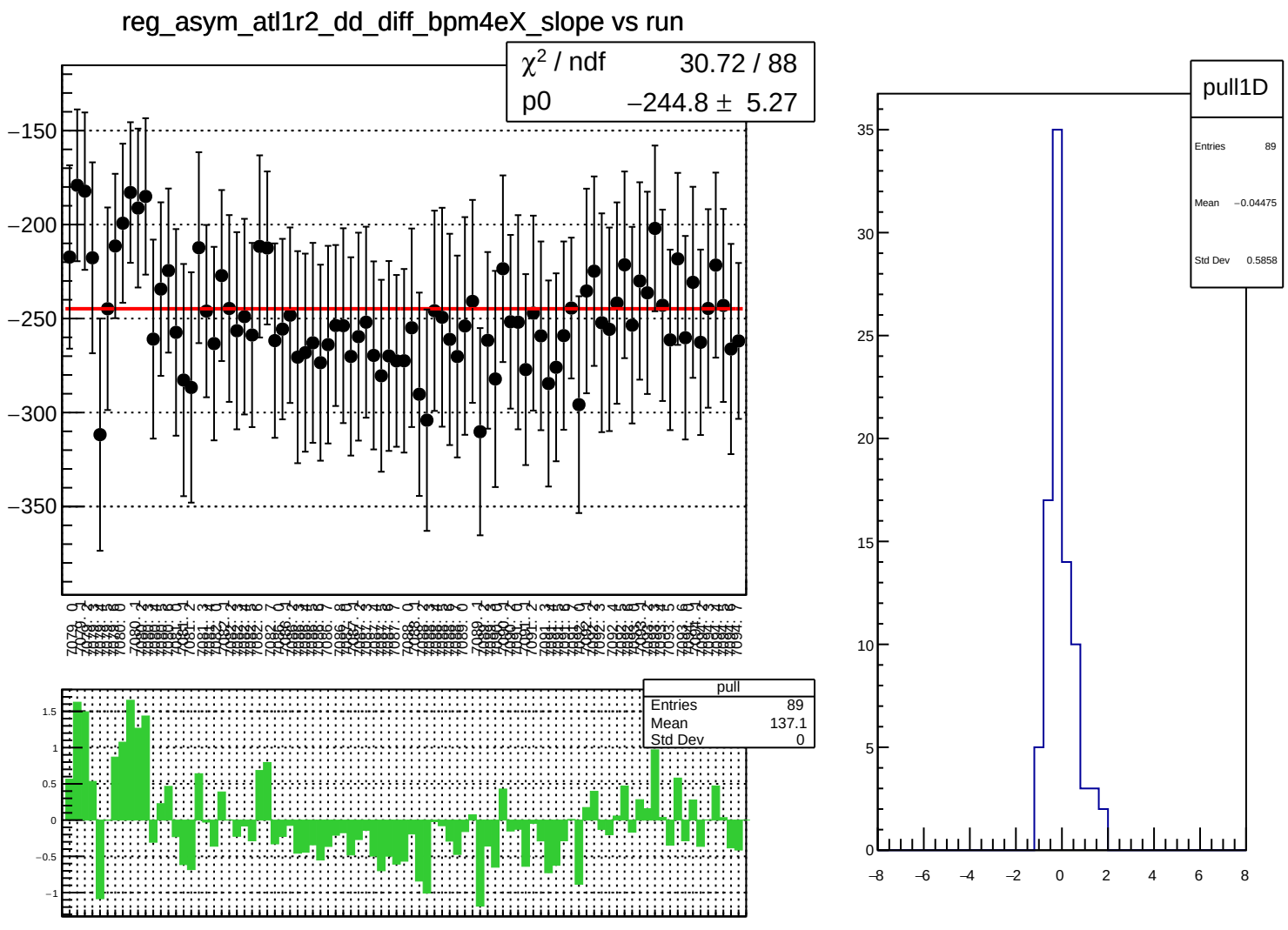

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.74 / 88
p0 76.95 ± 4.661
200
150
100
50
0
pull
Entries 89
Mean −1.832e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.000269
Std Dev 0.5683
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

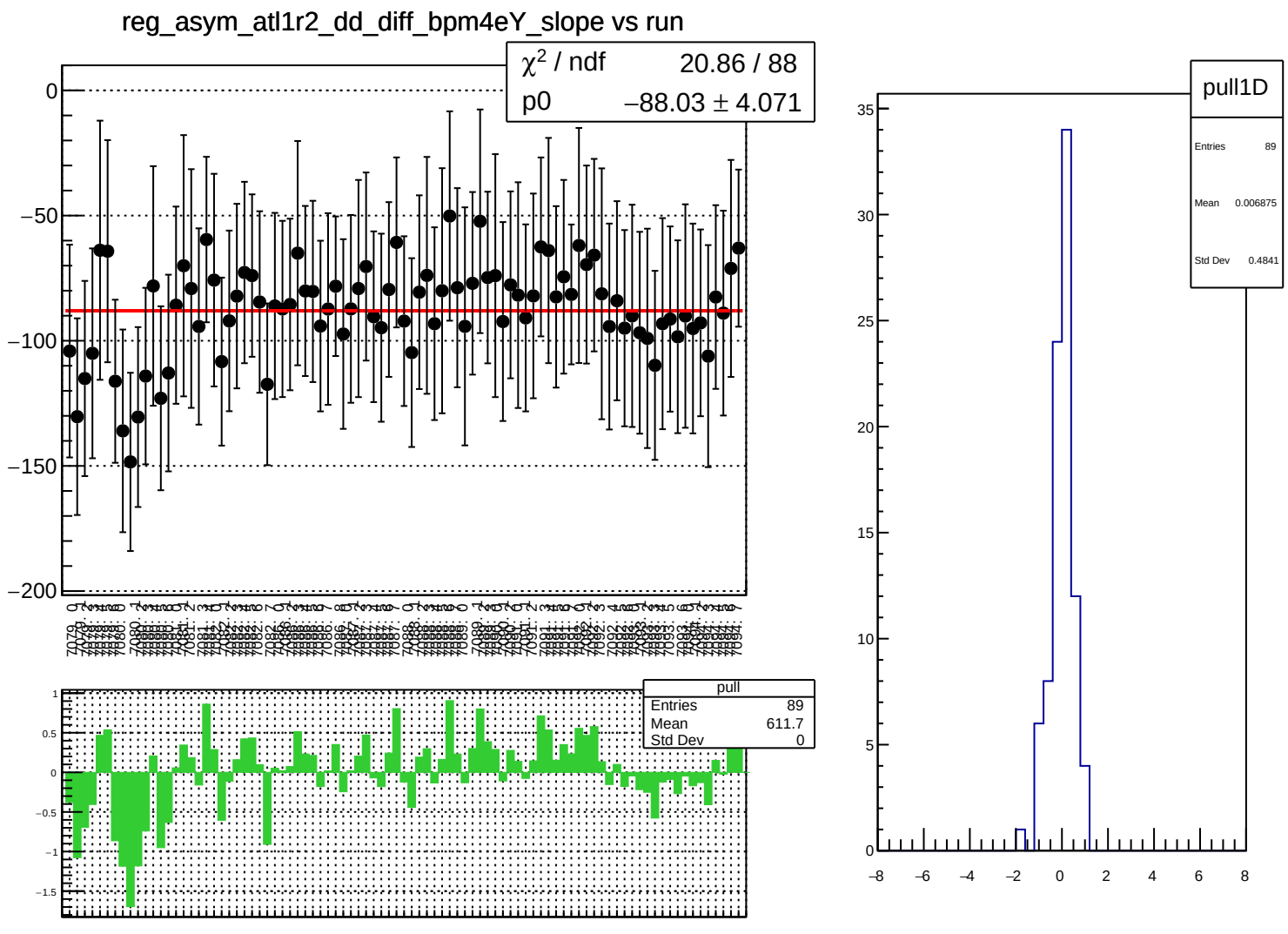

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 222 / 88
p0 −136.5 ± 0.2181
pull
Entries 89
Mean −2244
Std Dev 0

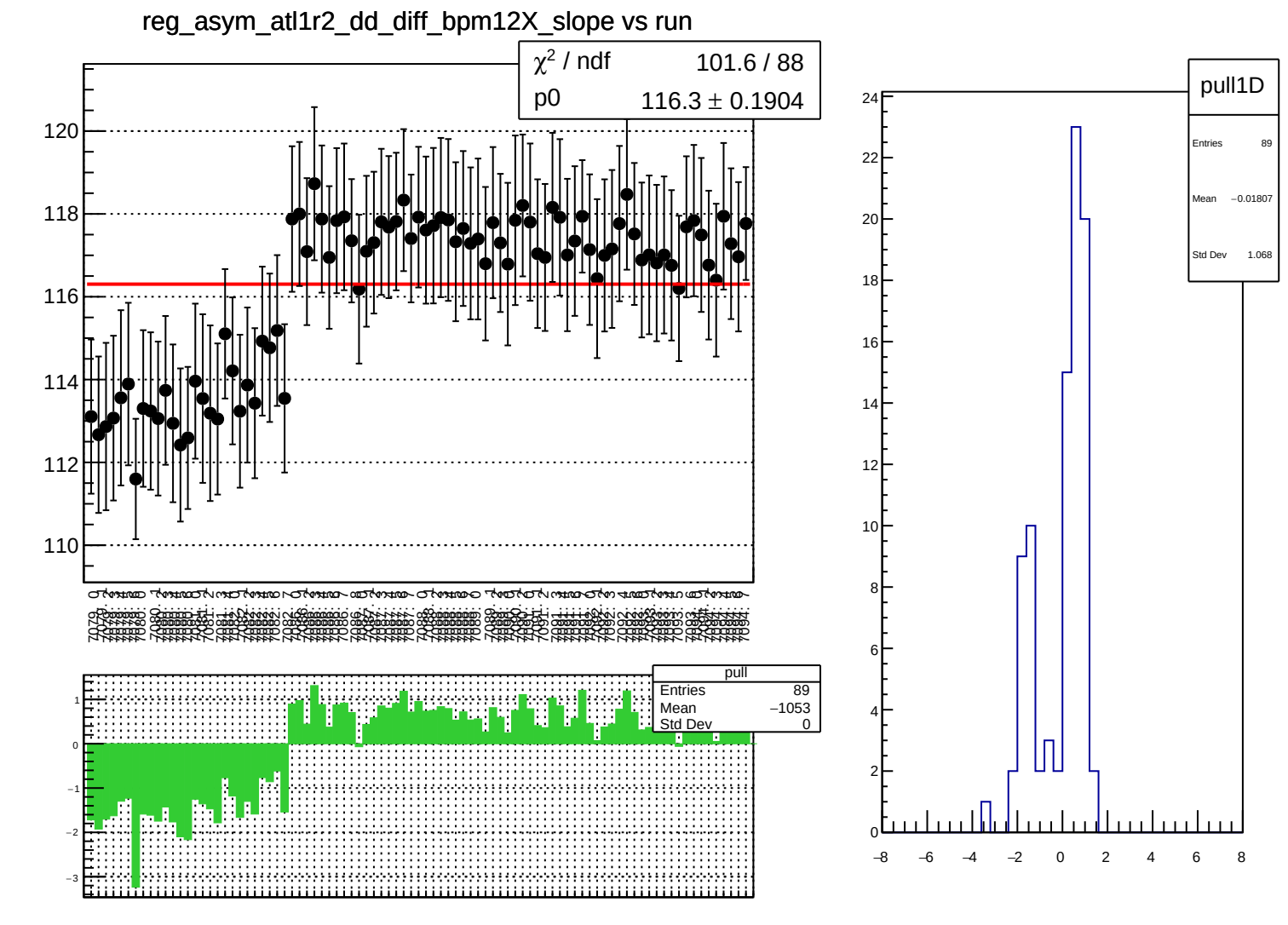

pull1D
Entries 89
Mean 0.01209
Std Dev 1.579

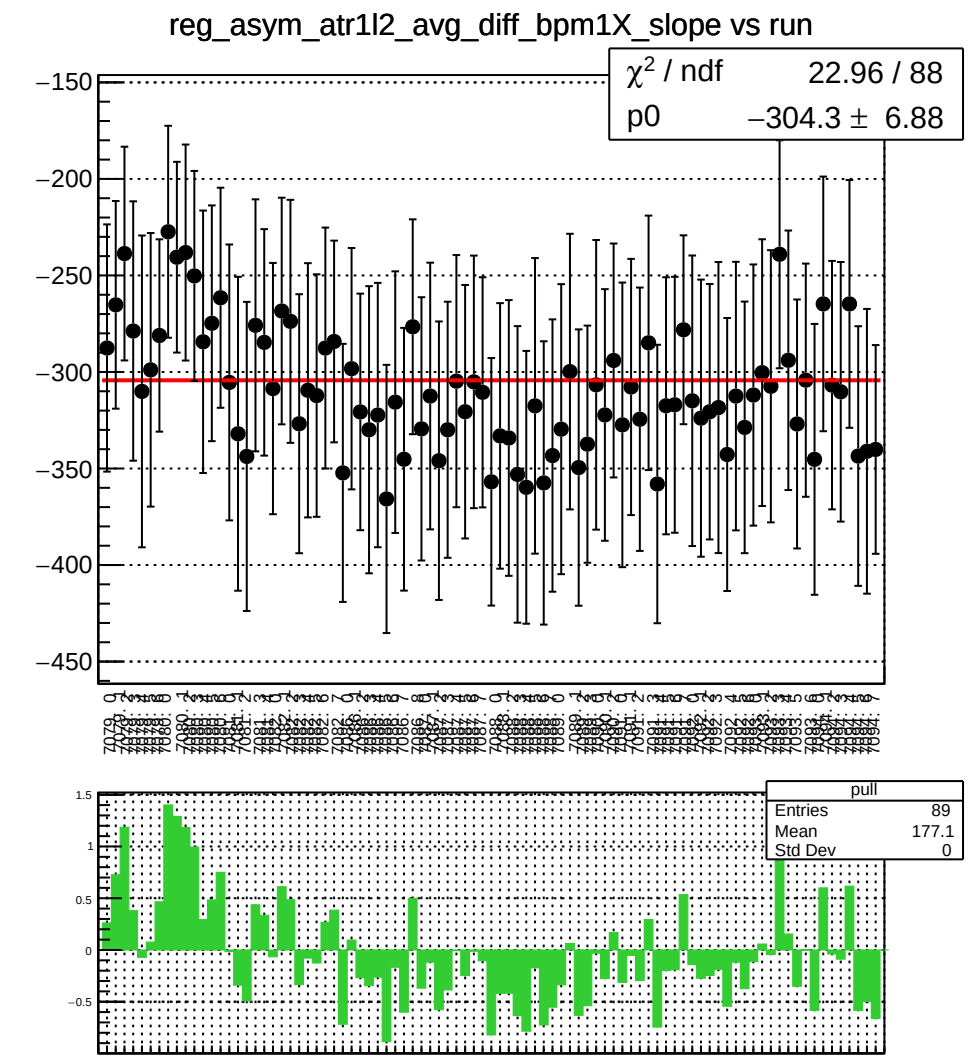

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 32.18 / 88
p0 220.9 ± 5.47
350
300
250
200
150
100
pull
Entries 89
Mean 144.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.0436
Std Dev 0.5997
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

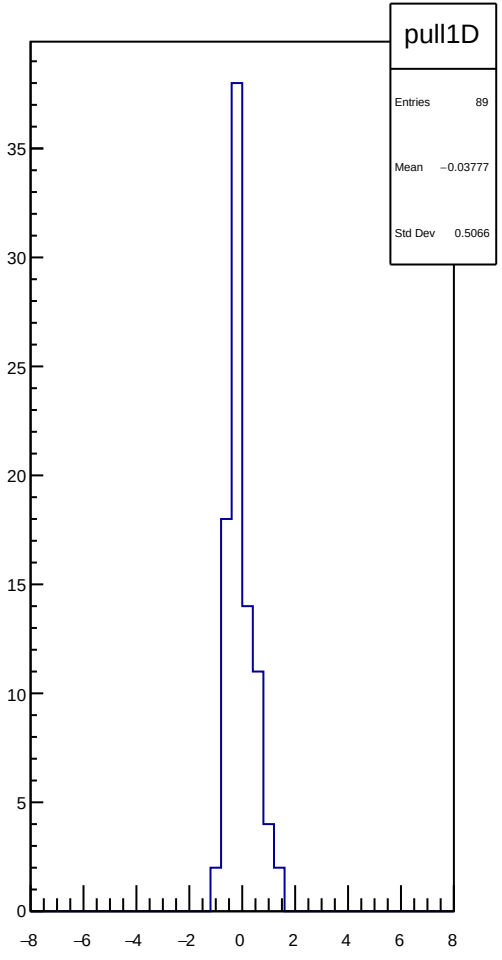

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.09 / 88
p0 13.73 ± 3.874
pull
Entries 89
Mean 985.1
Std Dev 0
pull1D
Entries 89
Mean −0.003932
Std Dev 0.4631

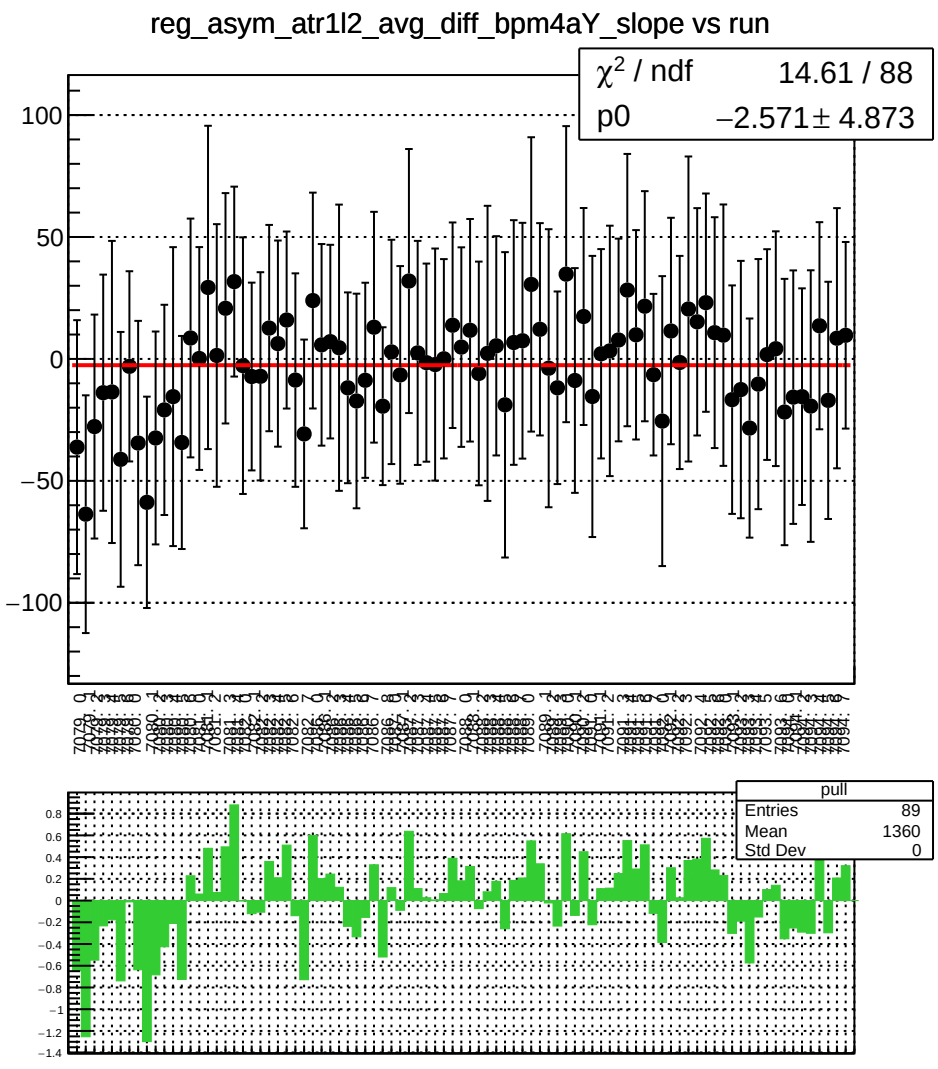

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.72 / 88
p0 −244.8 ± 5.27
−150
−200
−250
−300
−350
pull
Entries 89
Mean 137.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.04475
Std Dev 0.5858
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

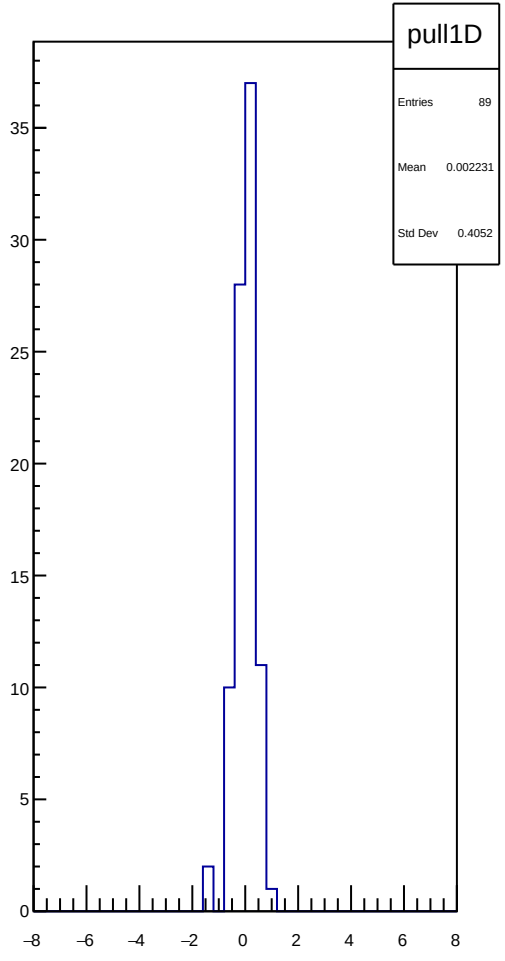

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.86 / 88
p0 −88.03 ± 4.071
pull
Entries 89
Mean 611.7
Std Dev 0
pull1D
Entries 89
Mean 0.006875
Std Dev 0.4841

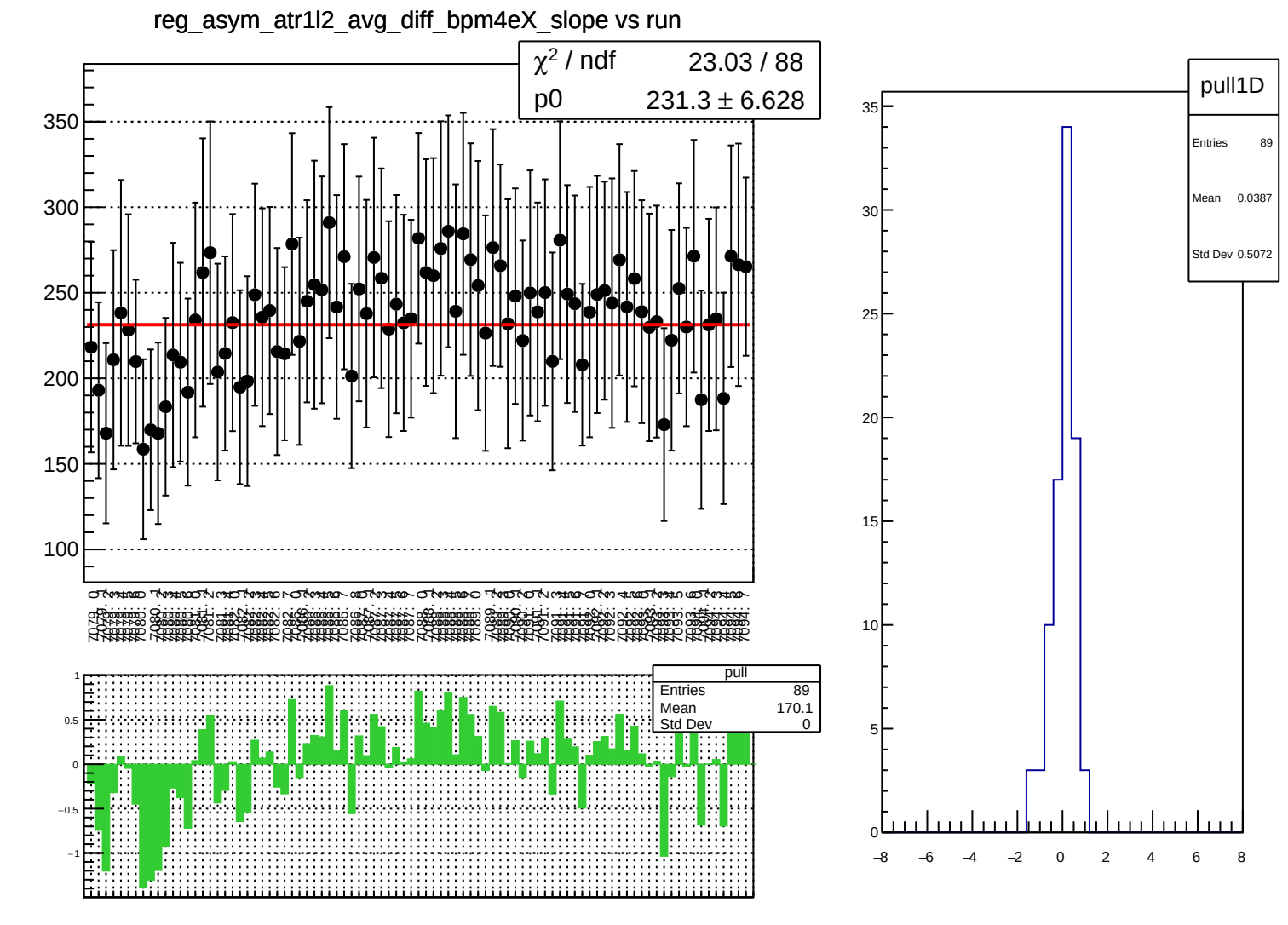

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 101.6 / 88
p0 116.3 ± 0.1904
120
118
116
114
112
110
pull
Entries 89
Mean −1053
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01807
Std Dev 1.068
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

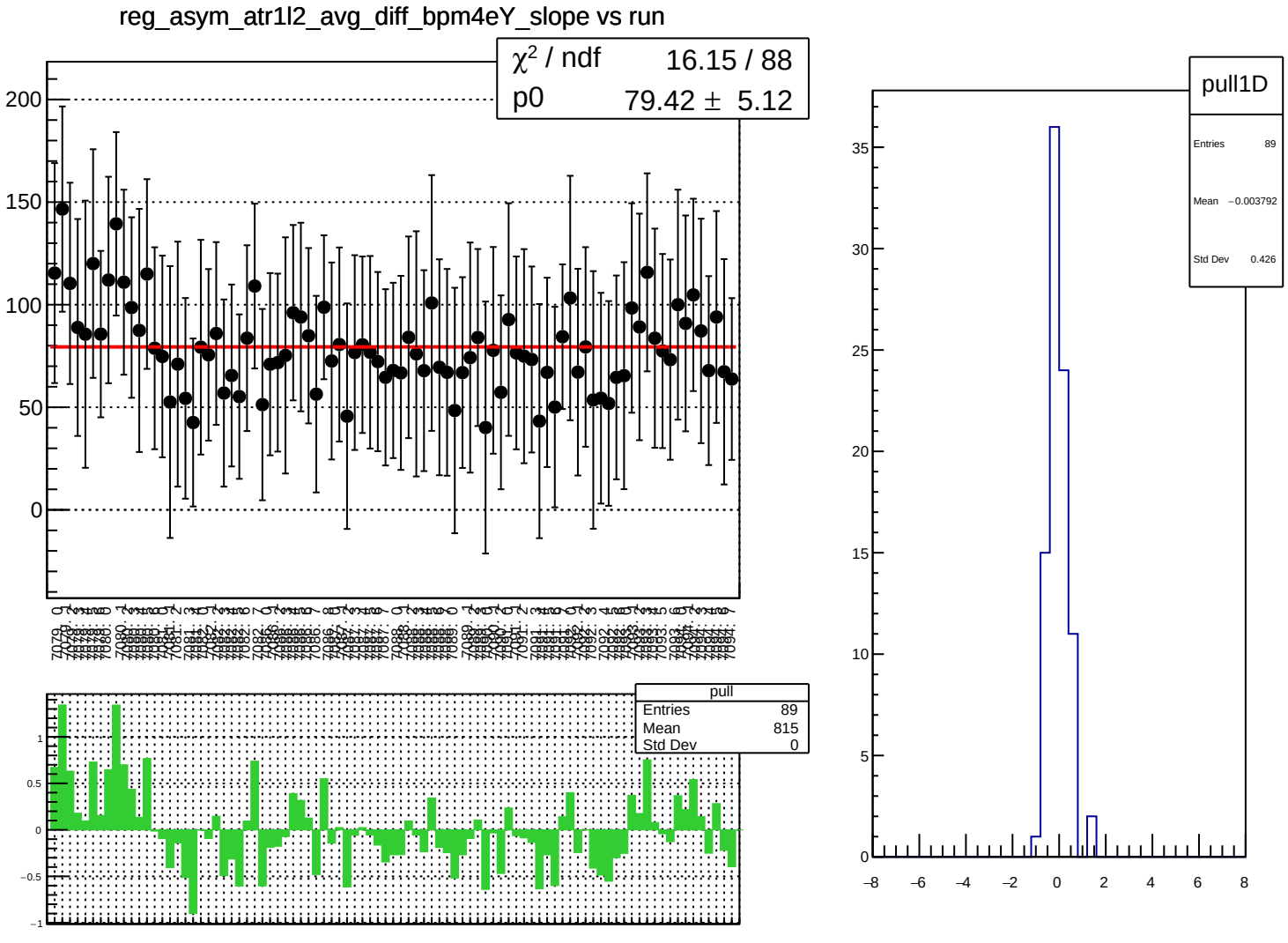

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 22.96 / 88
p0 −304.3 ± 6.88
pull
Entries 89
Mean 177.1
Std Dev 0

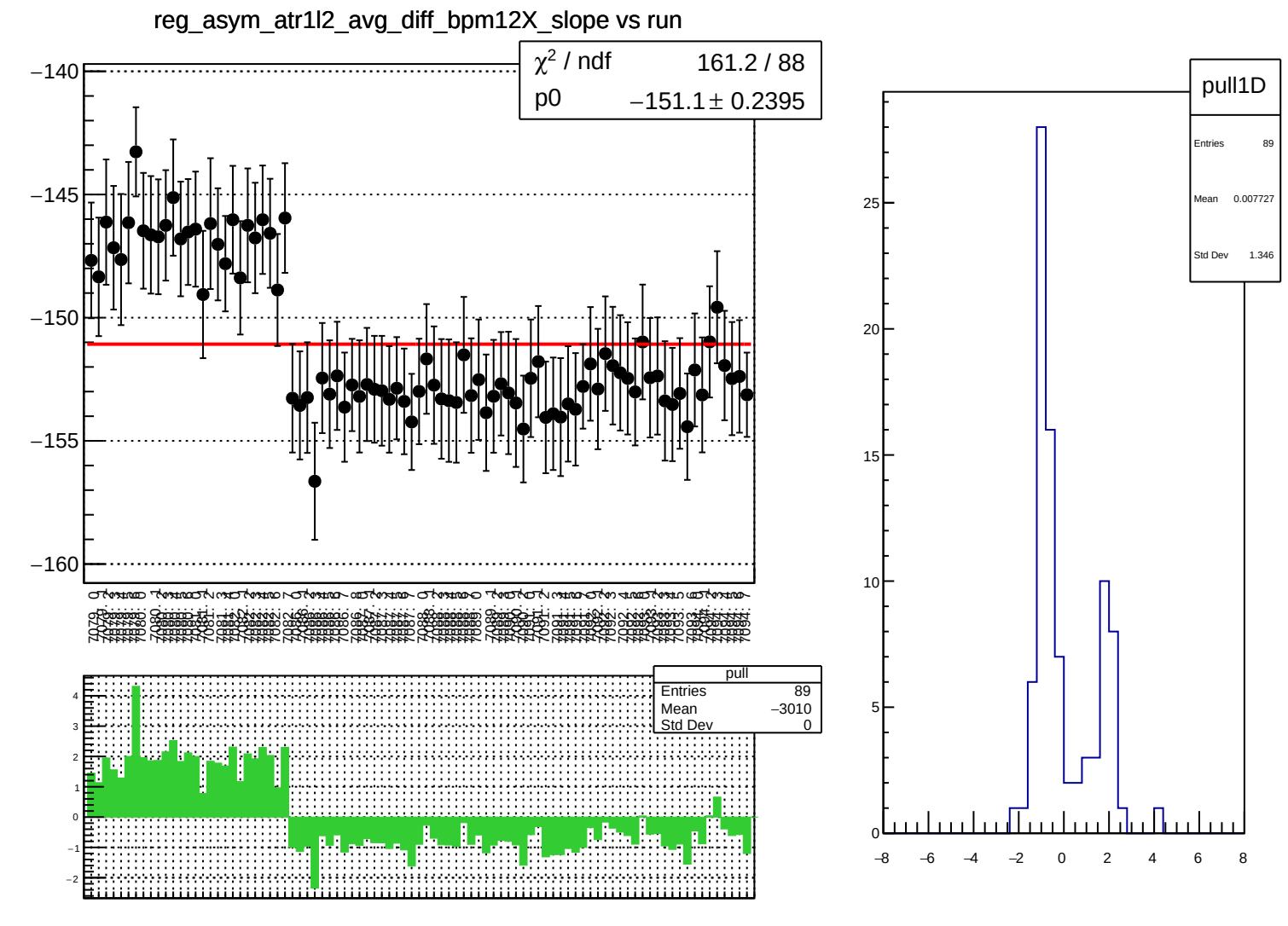

pull1D
Entries 89
Mean −0.03777
Std Dev 0.5066

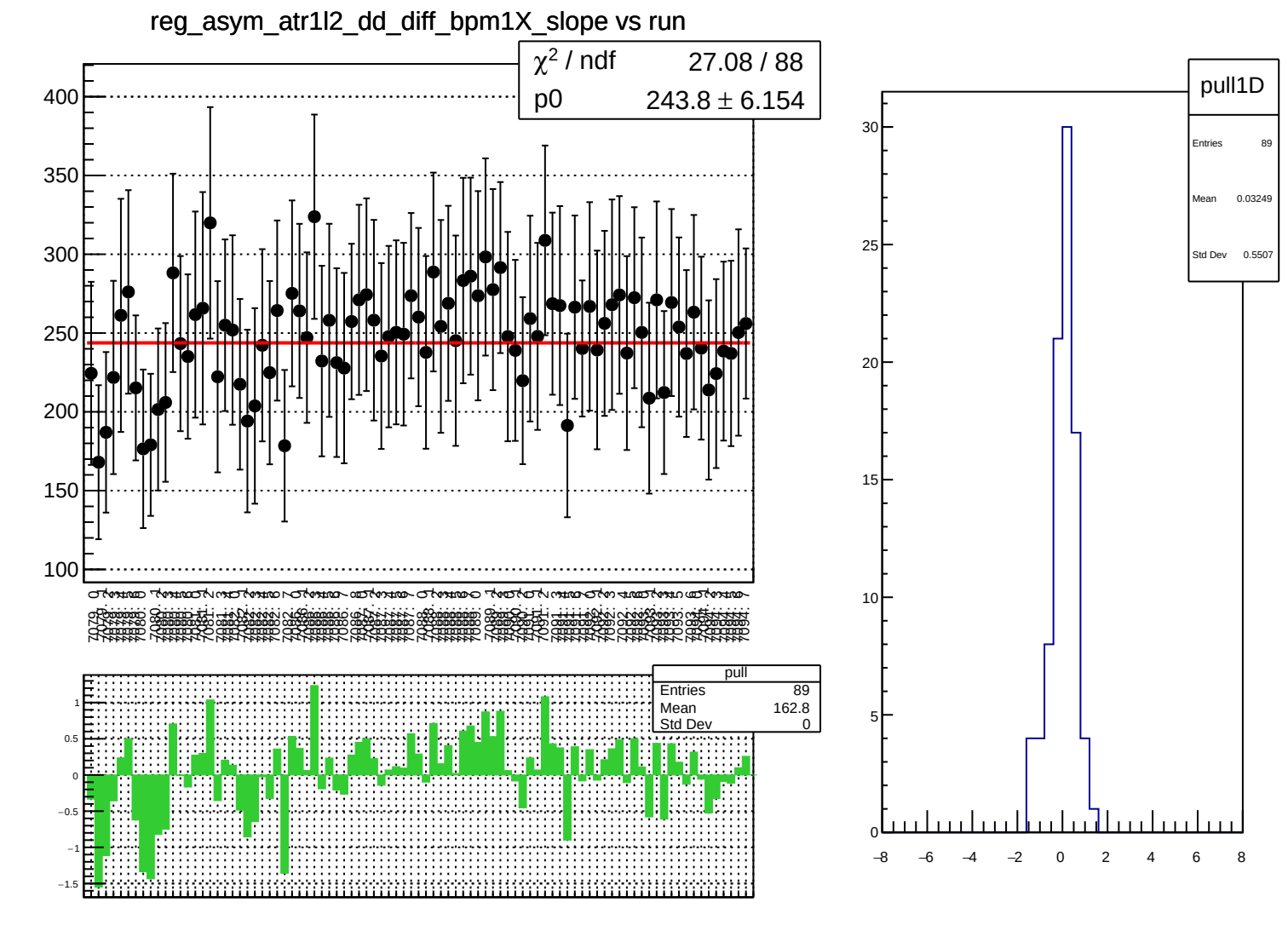

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.61 / 88
p0 −2.571 ± 4.873
100
50
0
−50
−100
pull
Entries 89
Mean 1360
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

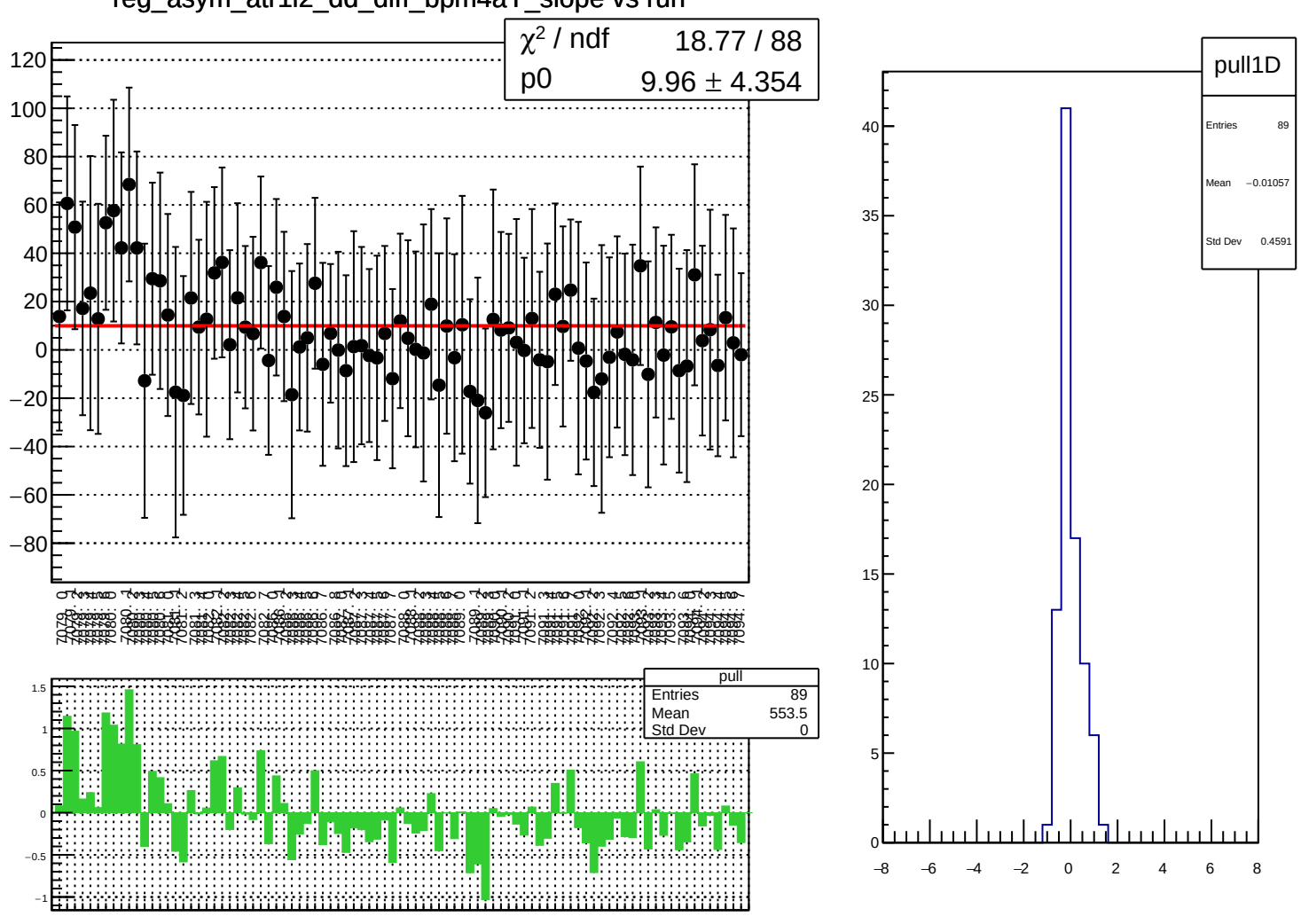

pull1D
Entries 89
Mean 0.002231
Std Dev 0.4052
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

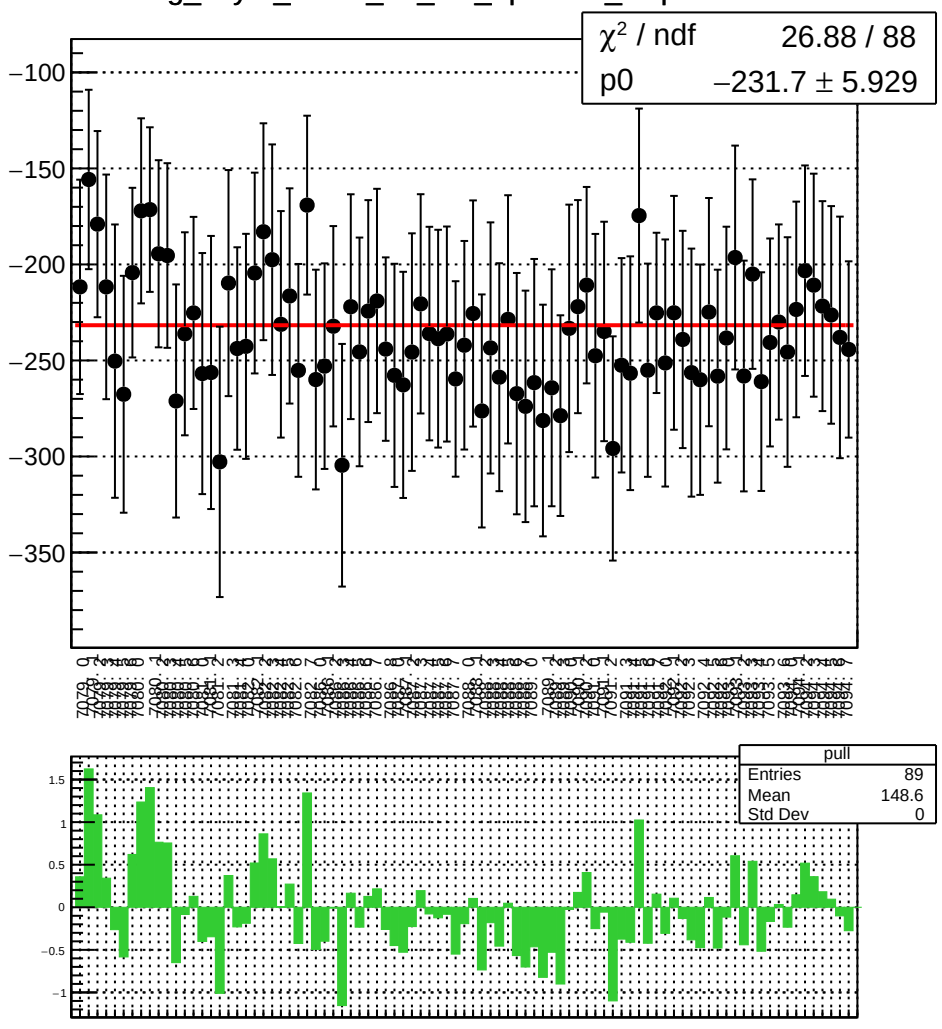

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.03 / 88
p0 231.3 ± 6.628
pull
Entries 89
Mean 170.1
Std Dev 0
pull1D
Entries 89
Mean 0.0387
Std Dev 0.5072

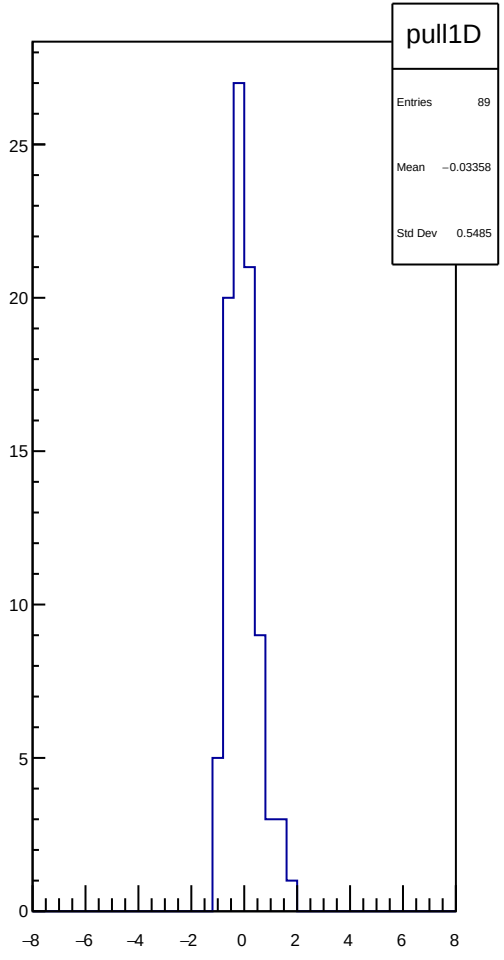

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.15 / 88
p0 79.42 ± 5.12
200
150
100
50
0
pull
Entries 89
Mean 815
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.003792
Std Dev 0.426
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

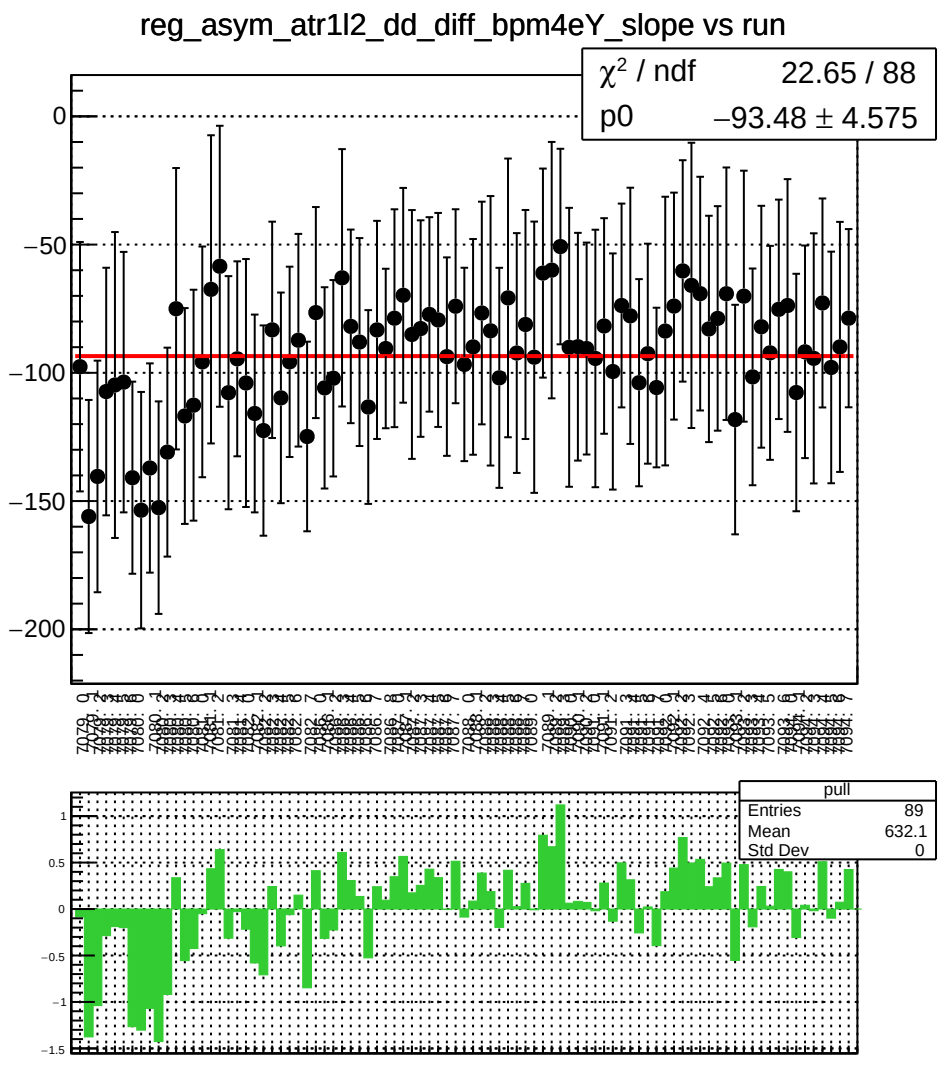

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 161.2 / 88
p0 −151.1 ± 0.2395
−140
−145
−150
−155
−160
pull
Entries 89
Mean −3010
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.007727
Std Dev 1.346
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

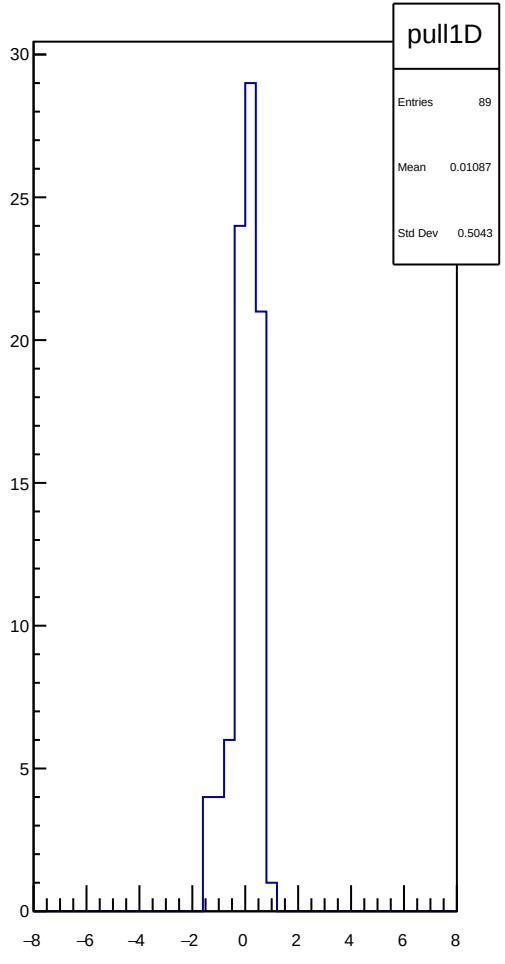

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 27.08 / 88
p0 243.8 ± 6.154
pull
Entries 89
Mean 162.8
Std Dev 0
pull1D
Entries 89
Mean 0.03249
Std Dev 0.5507

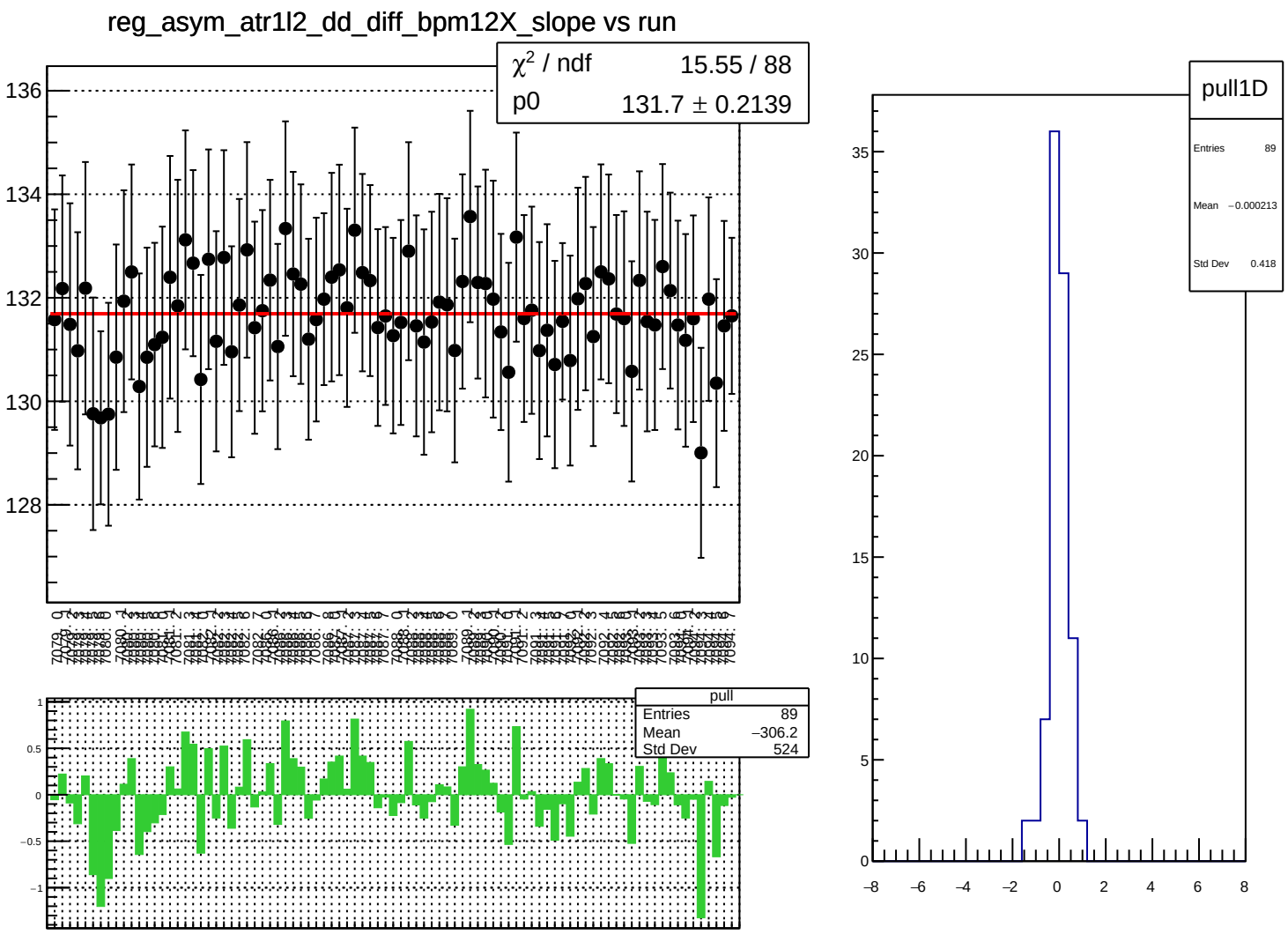

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.77 / 88
p0 9.96 ± 4.354
pull
Entries 89
Mean 553.5
Std Dev 0
pull1D
Entries 89
Mean −0.01057
Std Dev 0.4591

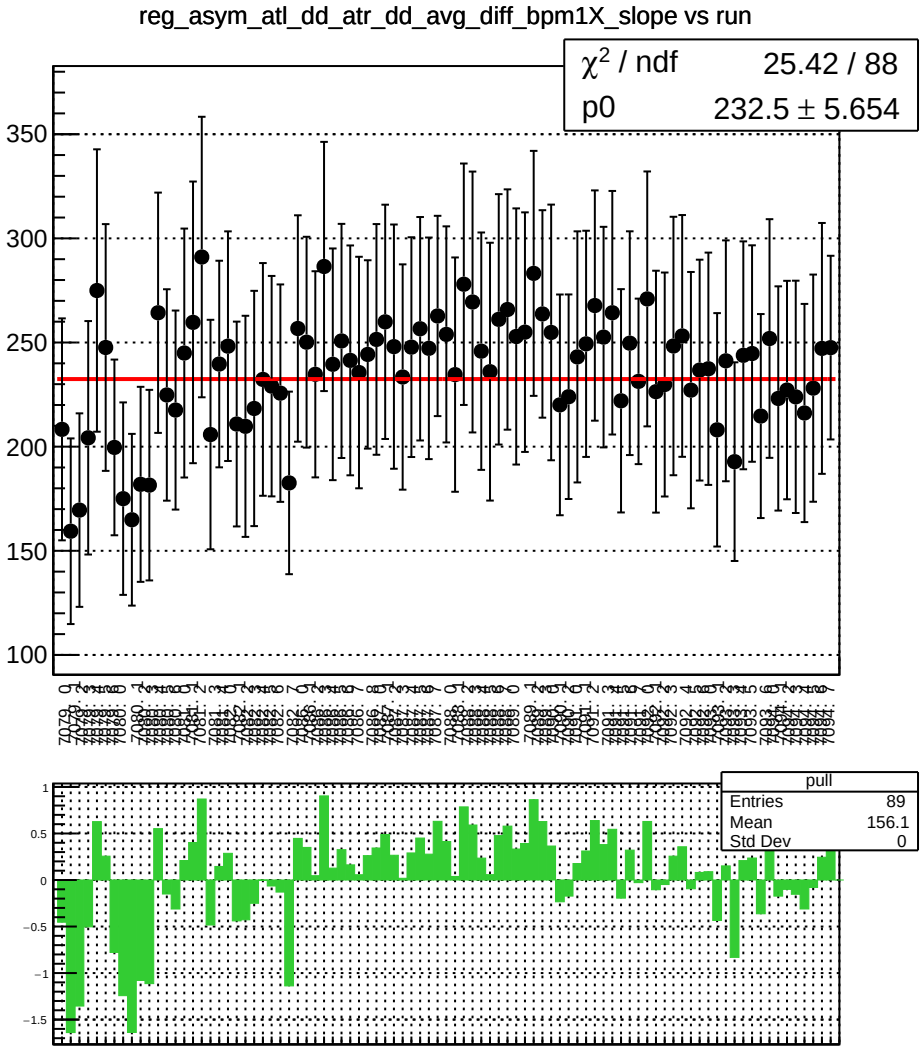

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.88 / 88
p0 −231.7 ± 5.929
−100
−150
−200
−250
−300
−350
pull
Entries 89
Mean 148.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

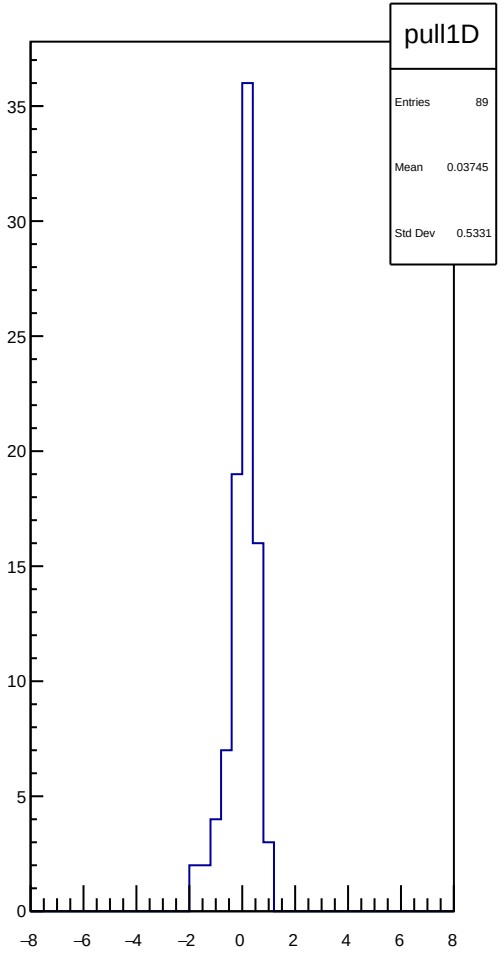

pull1D
Entries 89
Mean −0.03358
Std Dev 0.5485
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

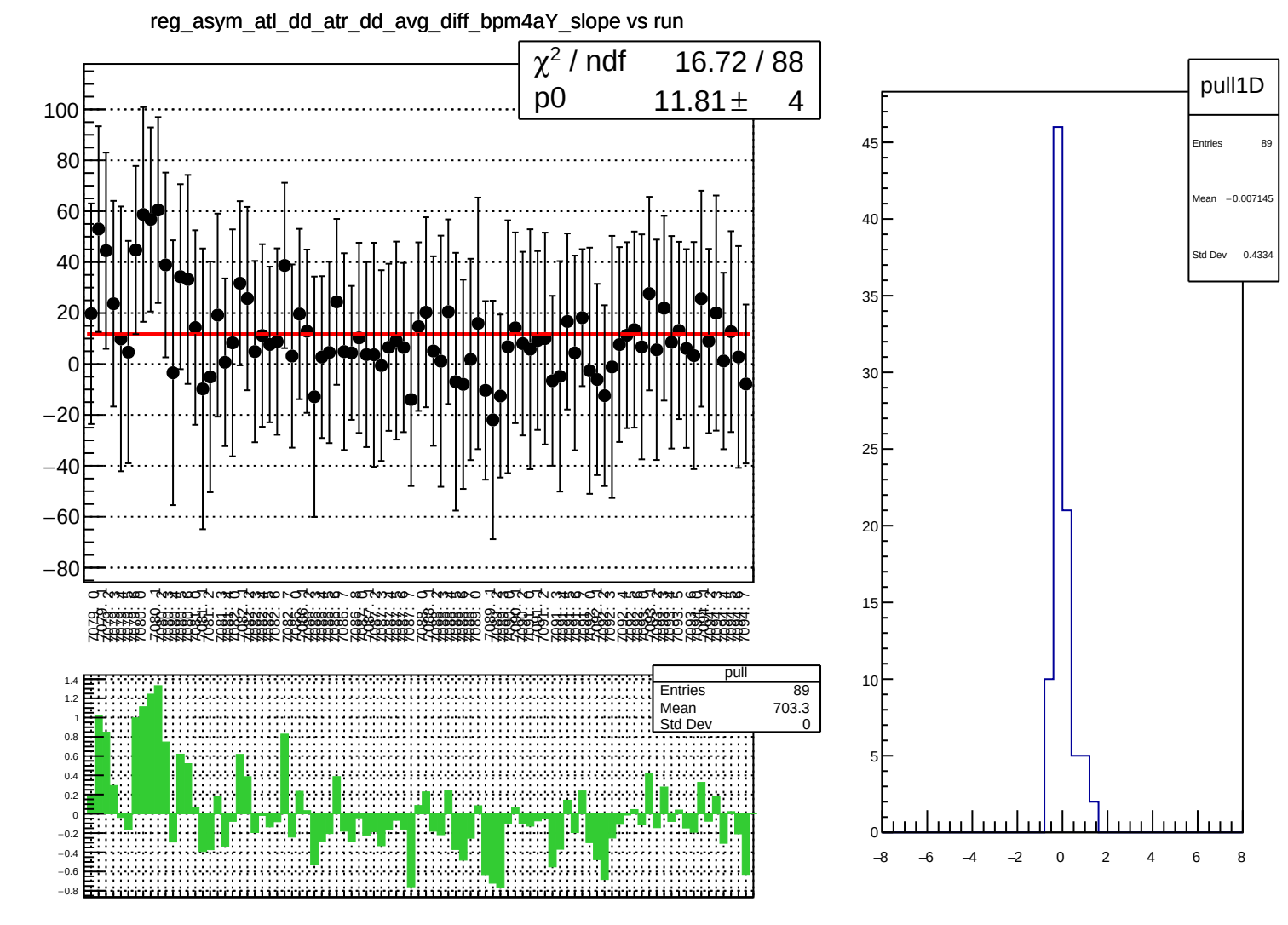

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.65 / 88
p0 −93.48 ± 4.575
0
−50
−100
−150
−200
pull
Entries 89
Mean 632.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

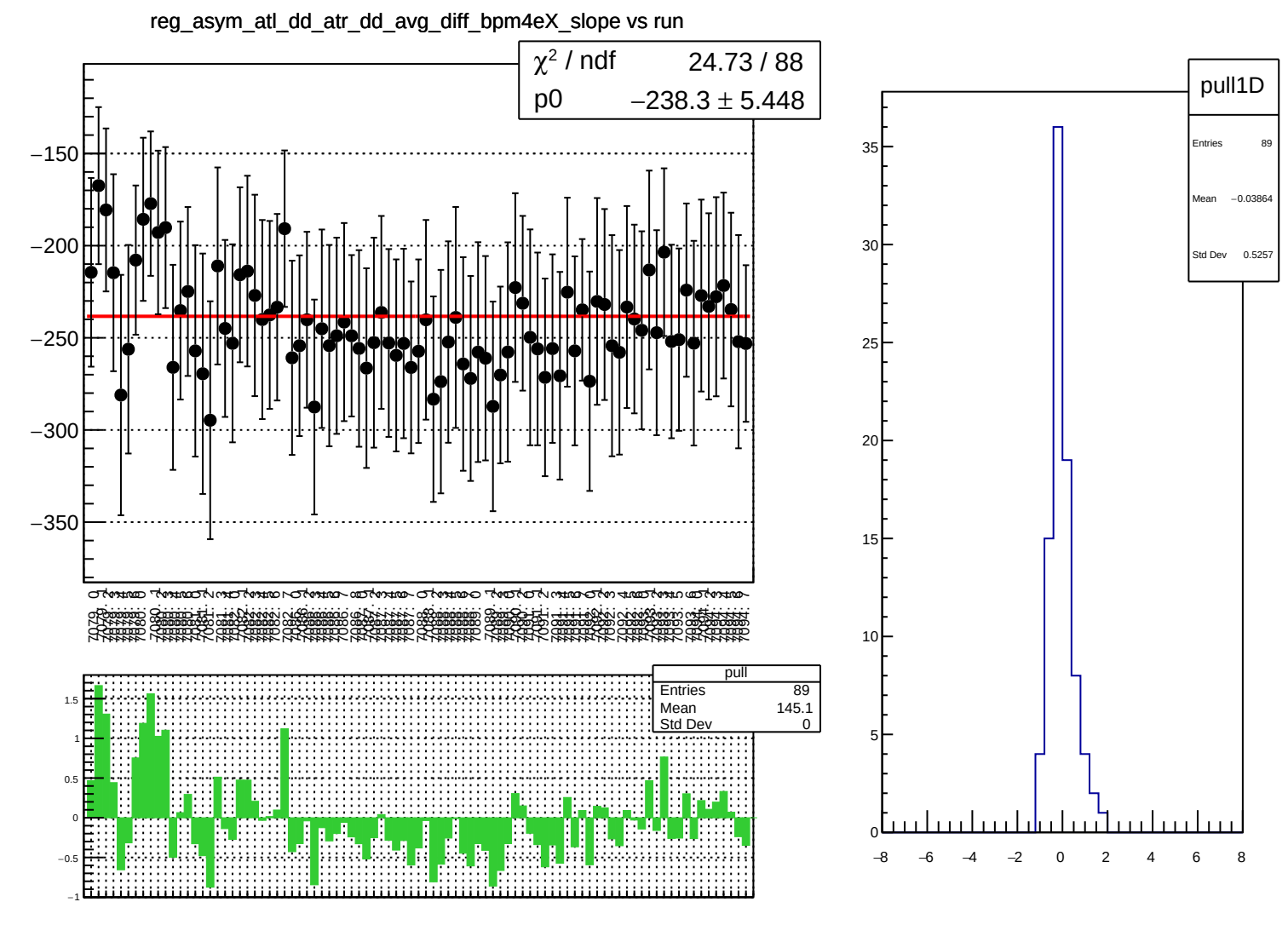

pull1D
Entries 89
Mean 0.01087
Std Dev 0.5043
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

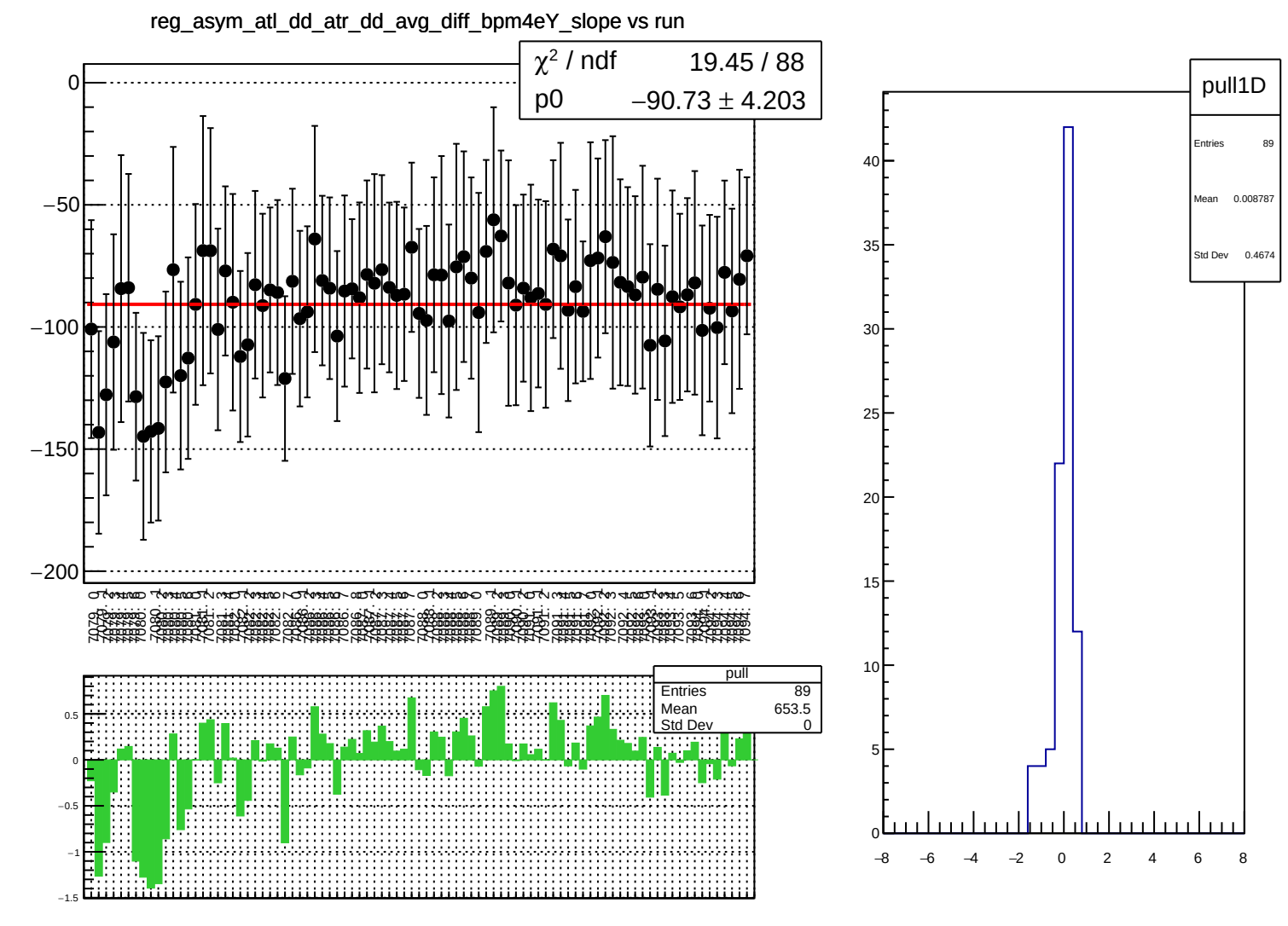

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 15.55 / 88
p0 131.7 ± 0.2139
136
134
132
130
128
pull
Entries 89
Mean −306.2
Std Dev 524
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.000213
Std Dev 0.418
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

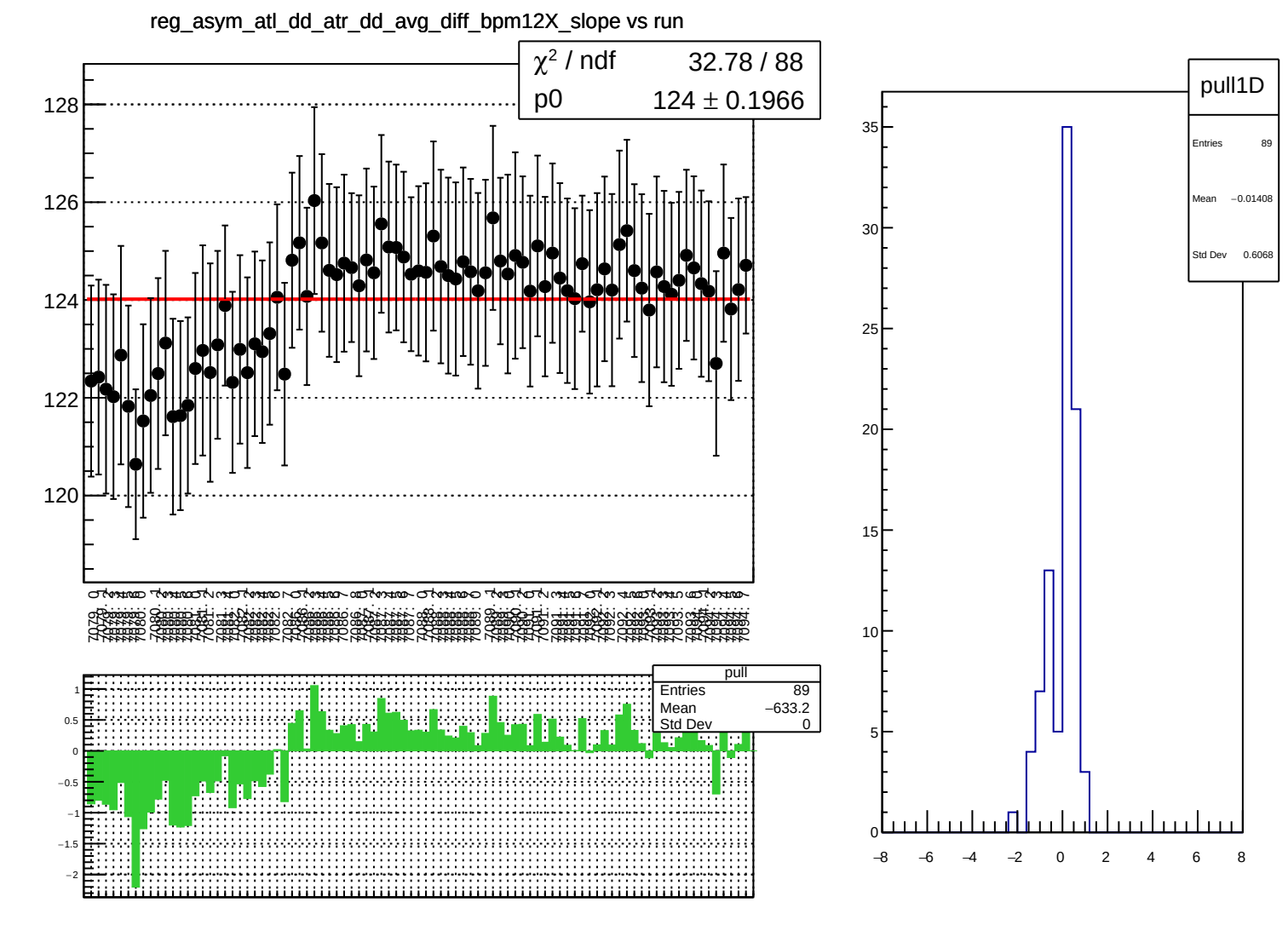

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 25.42 / 88
p0 232.5 ± 5.654
pull
Entries 89
Mean 156.1
Std Dev 0

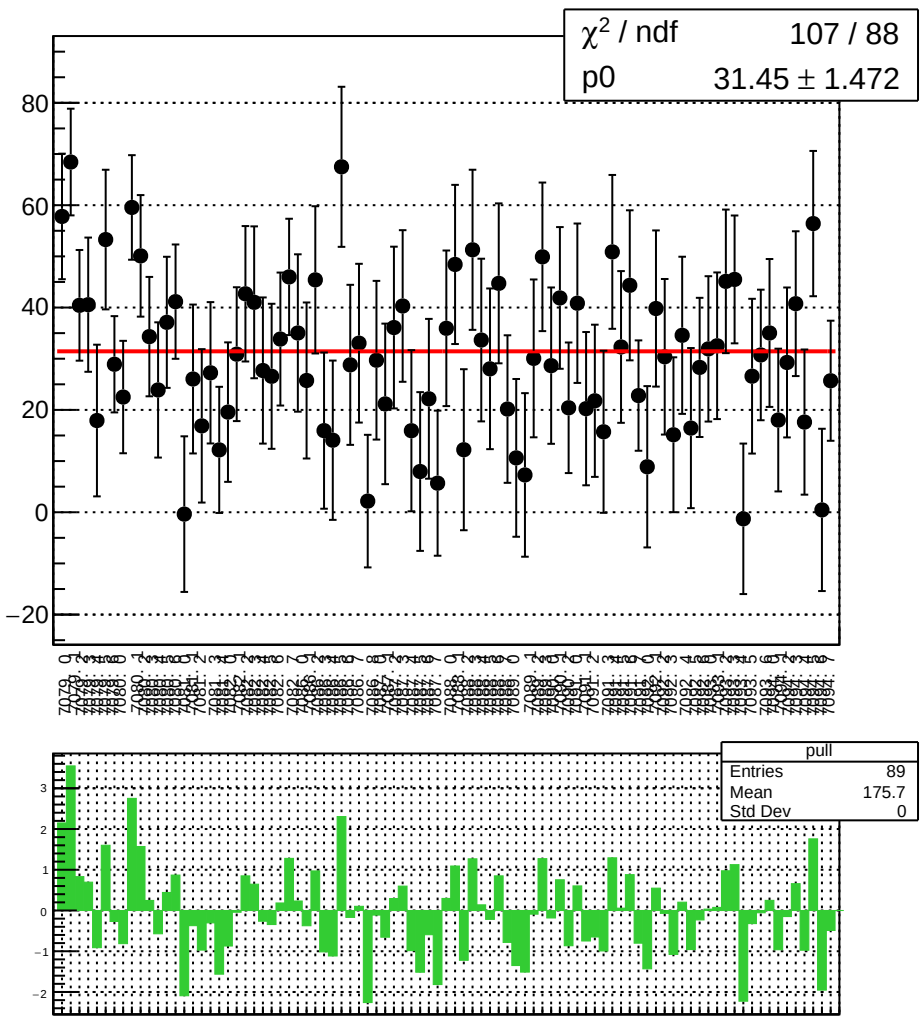

pull1D
Entries 89
Mean 0.03745
Std Dev 0.5331

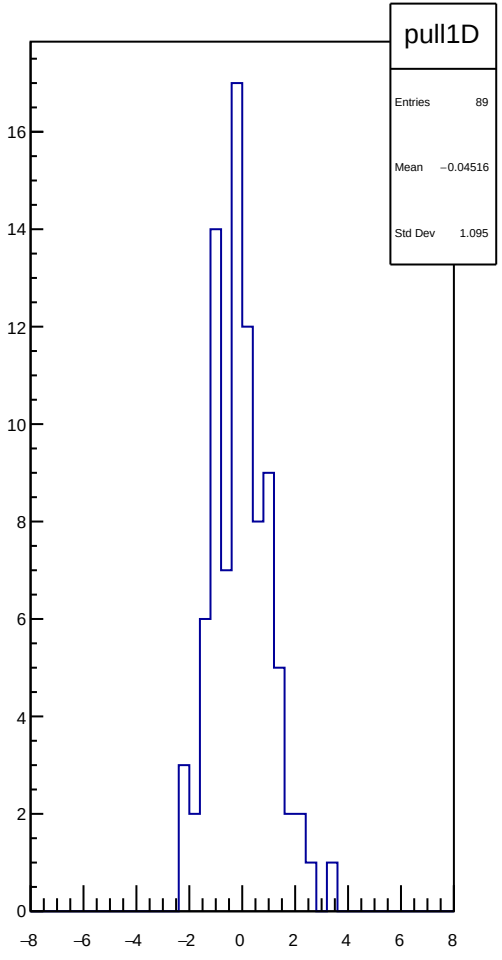

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.72 / 88
p0 11.81 ± 4
pull
Entries 89
Mean 703.3
Std Dev 0
pull1D
Entries 89
Mean −0.007145
Std Dev 0.4334

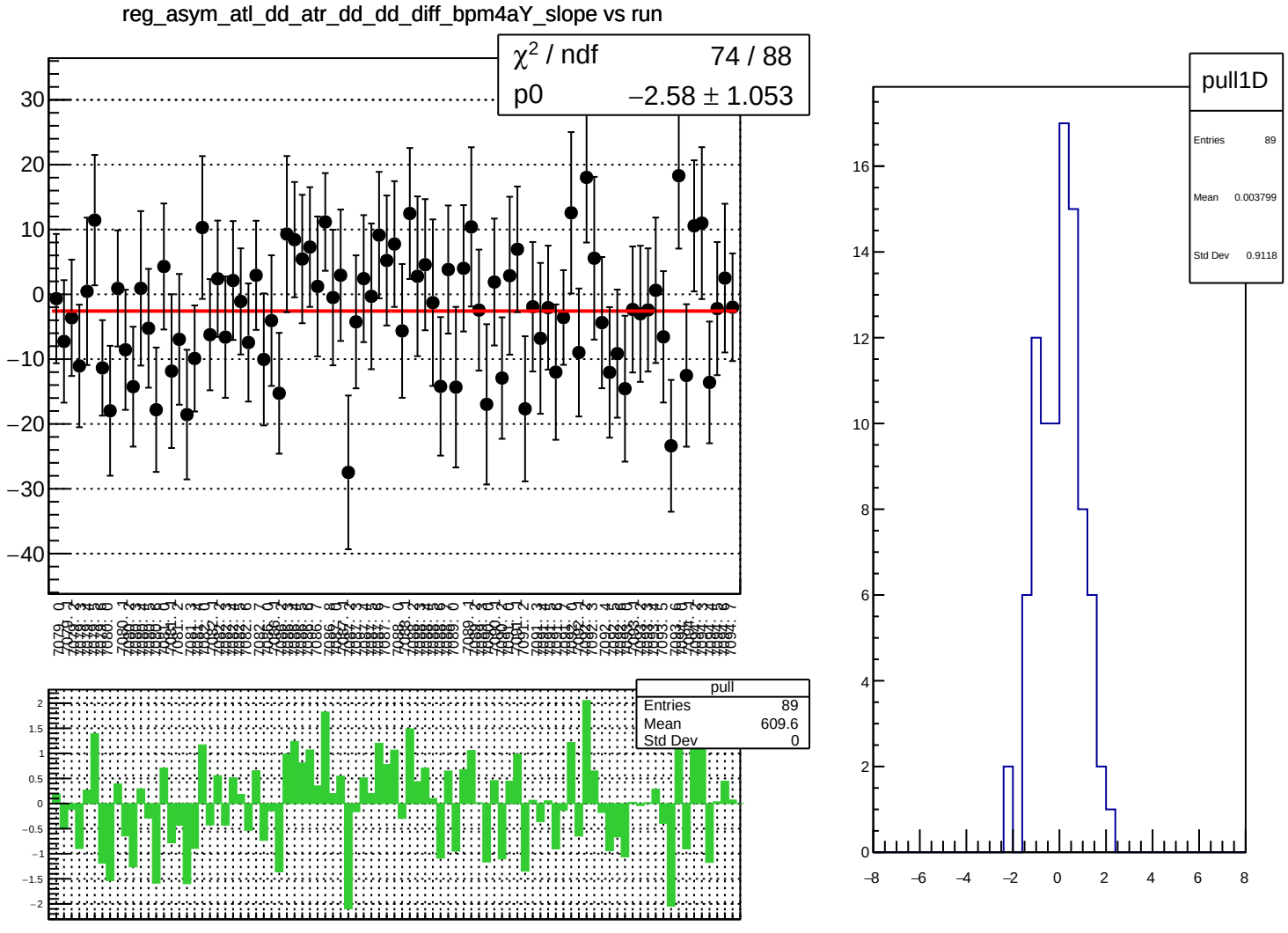

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.73 / 88
p0 −238.3 ± 5.448
−150
−200
−250
−300
−350
pull
Entries 89
Mean 145.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.03864
Std Dev 0.5257
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

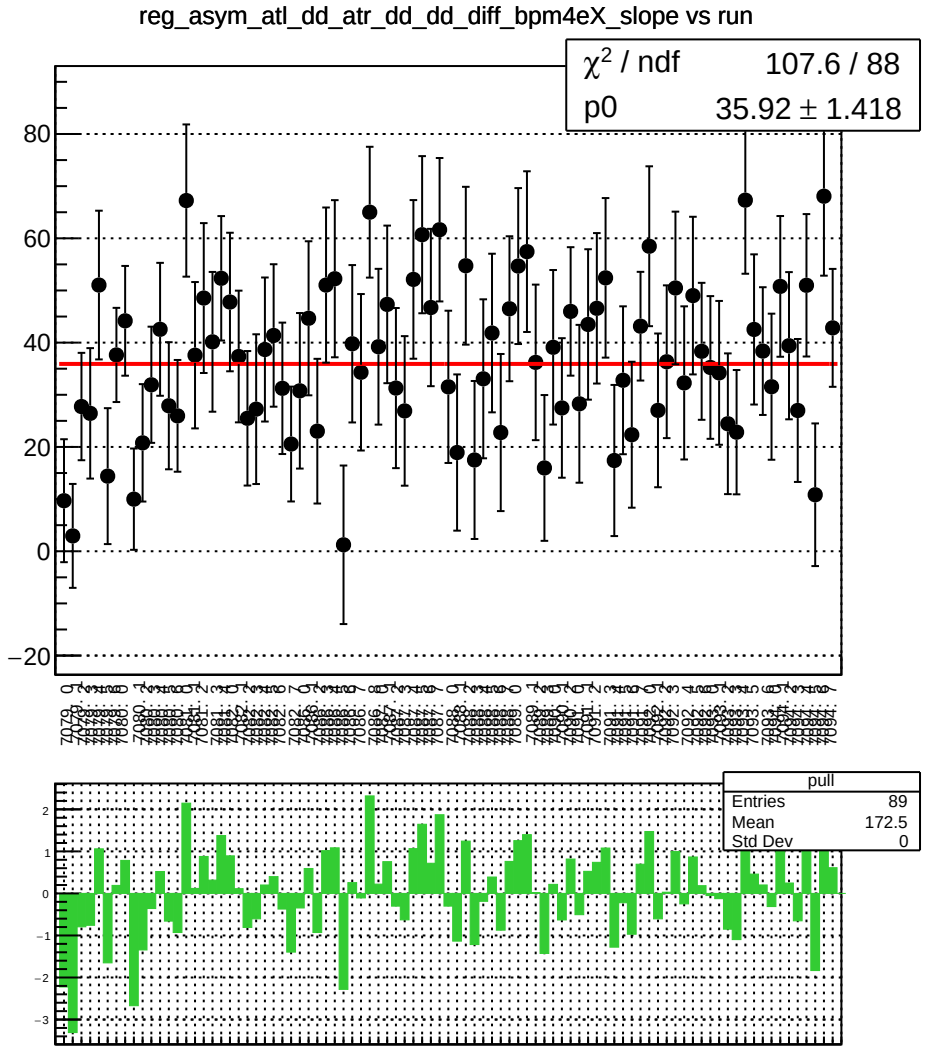

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.45 / 88
p0 −90.73 ± 4.203
0
−50
−100
−150
−200
pull
Entries 89
Mean 653.5
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.008787
Std Dev 0.4674
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

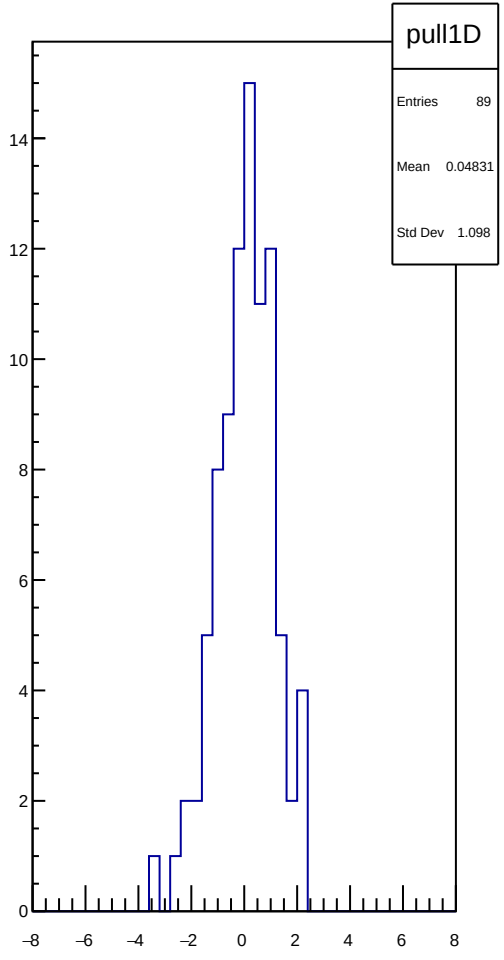

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 32.78 / 88
p0 124 ± 0.1966
128
126
124
122
120
pull
Entries 89
Mean −633.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01408
Std Dev 0.6068
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

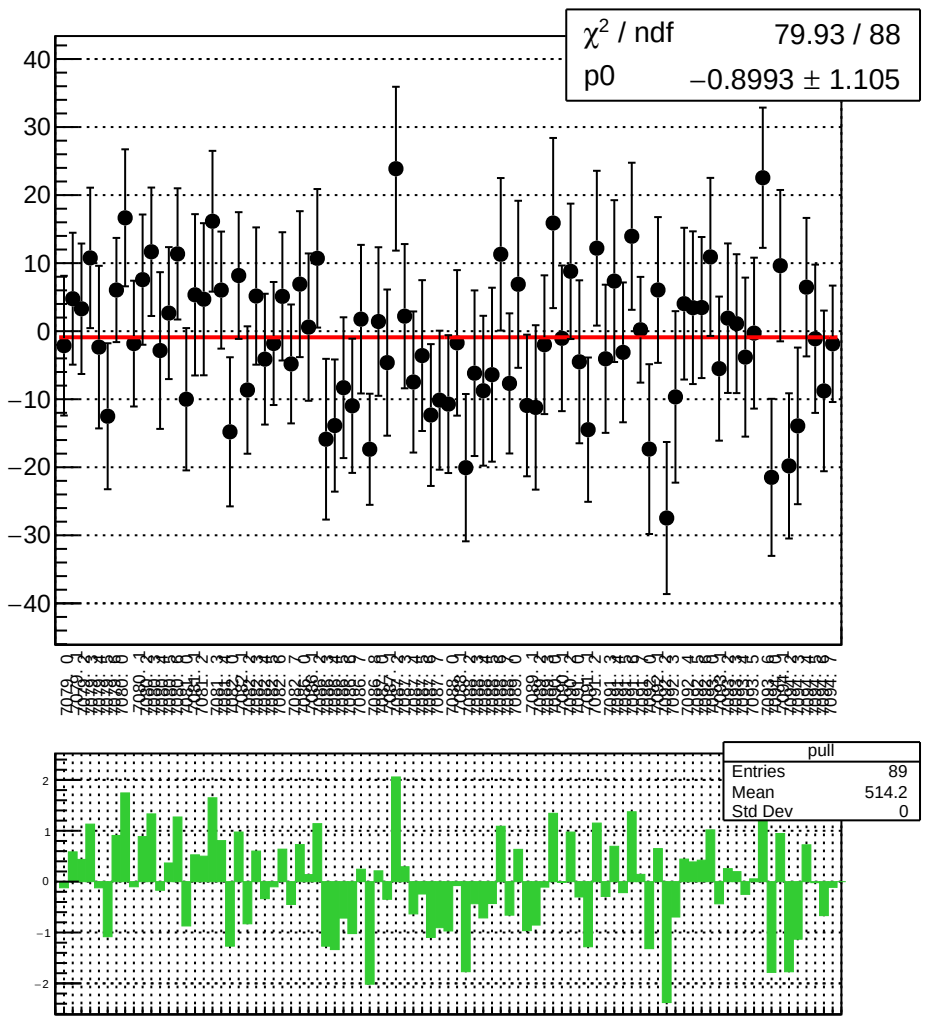

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 107 / 88
p0 31.45 ± 1.472
pull
Entries 89
Mean 175.7
Std Dev 0

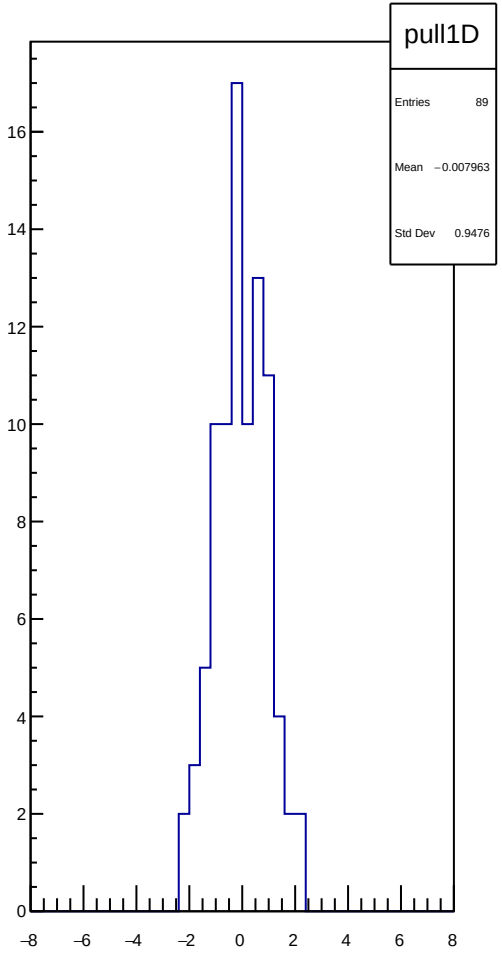

pull1D
Entries 89
Mean −0.04516
Std Dev 1.095

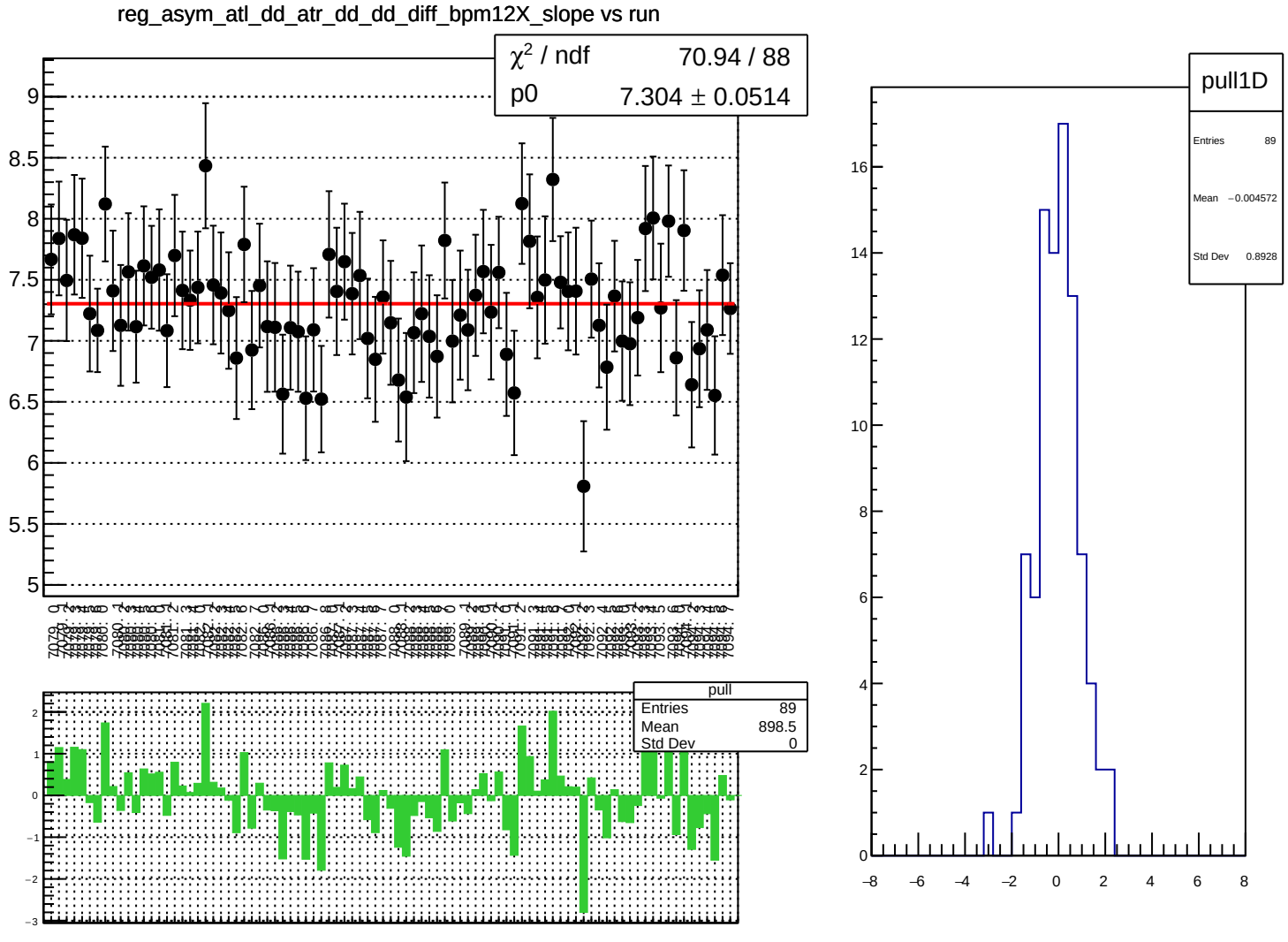

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 74 / 88
p0 −2.58 ± 1.053
pull
Entries 89
Mean 609.6
Std Dev 0
pull1D
Entries 89
Mean 0.003799
Std Dev 0.9118

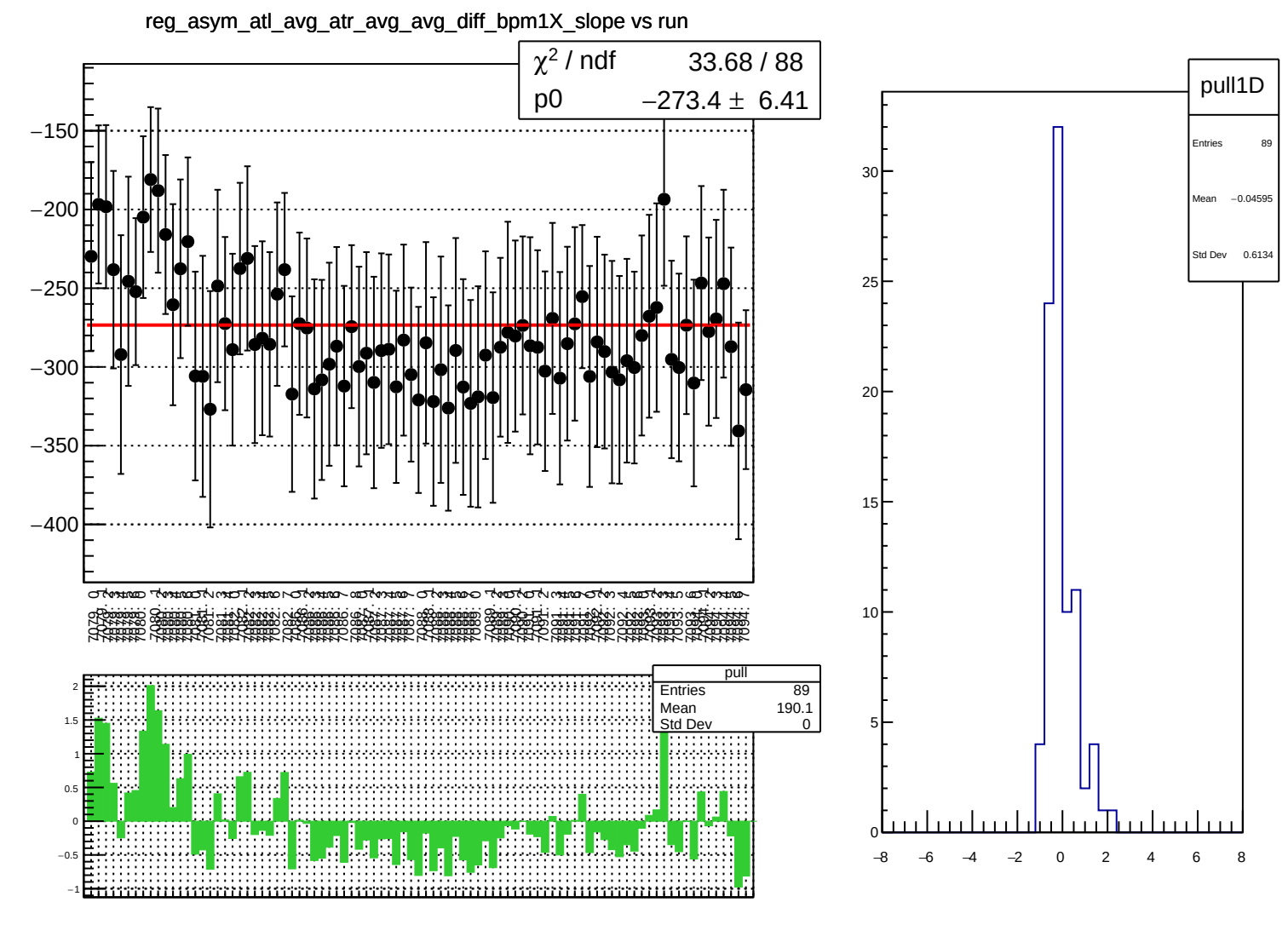

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 107.6 / 88
p0 35.92 ± 1.418
pull
Entries 89
Mean 172.5
Std Dev 0

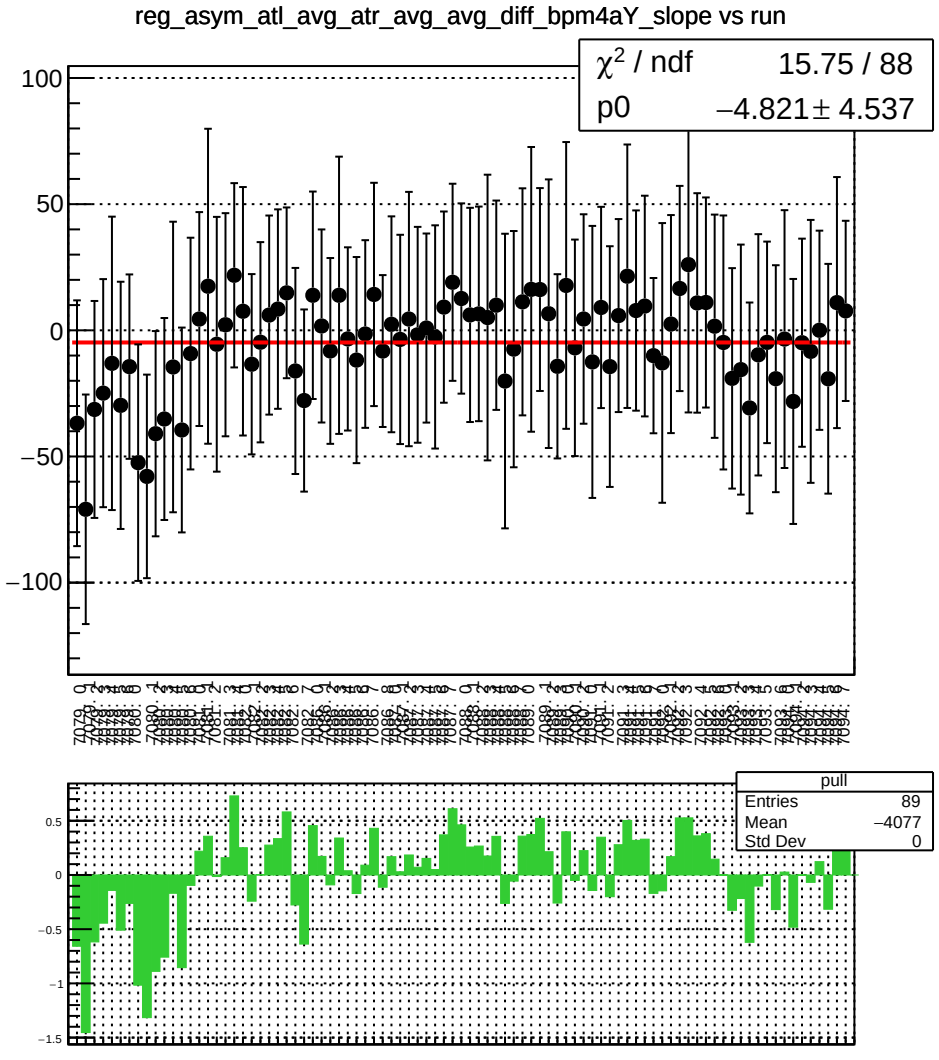

pull1D
Entries 89
Mean 0.04831
Std Dev 1.098

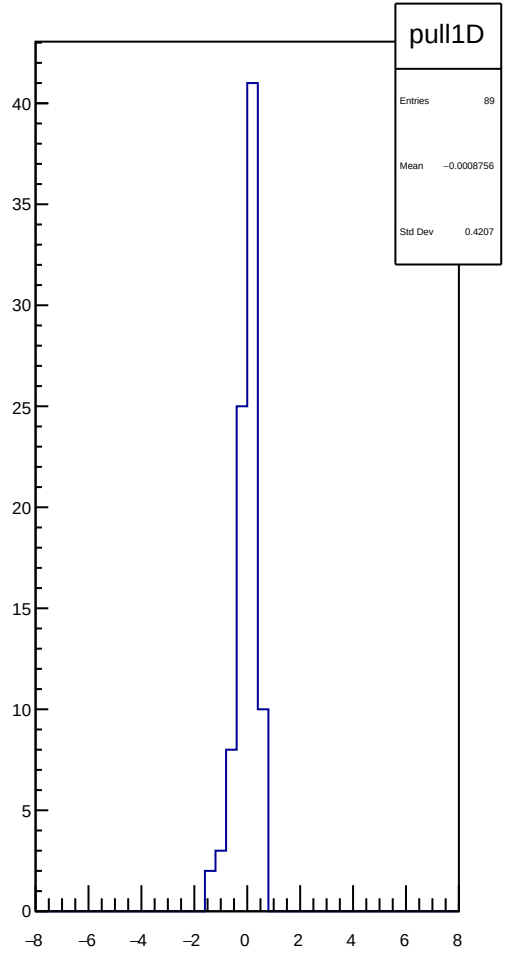

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.93 / 88
p0 −0.8993 ± 1.105
pull
Entries 89
Mean 514.2
Std Dev 0

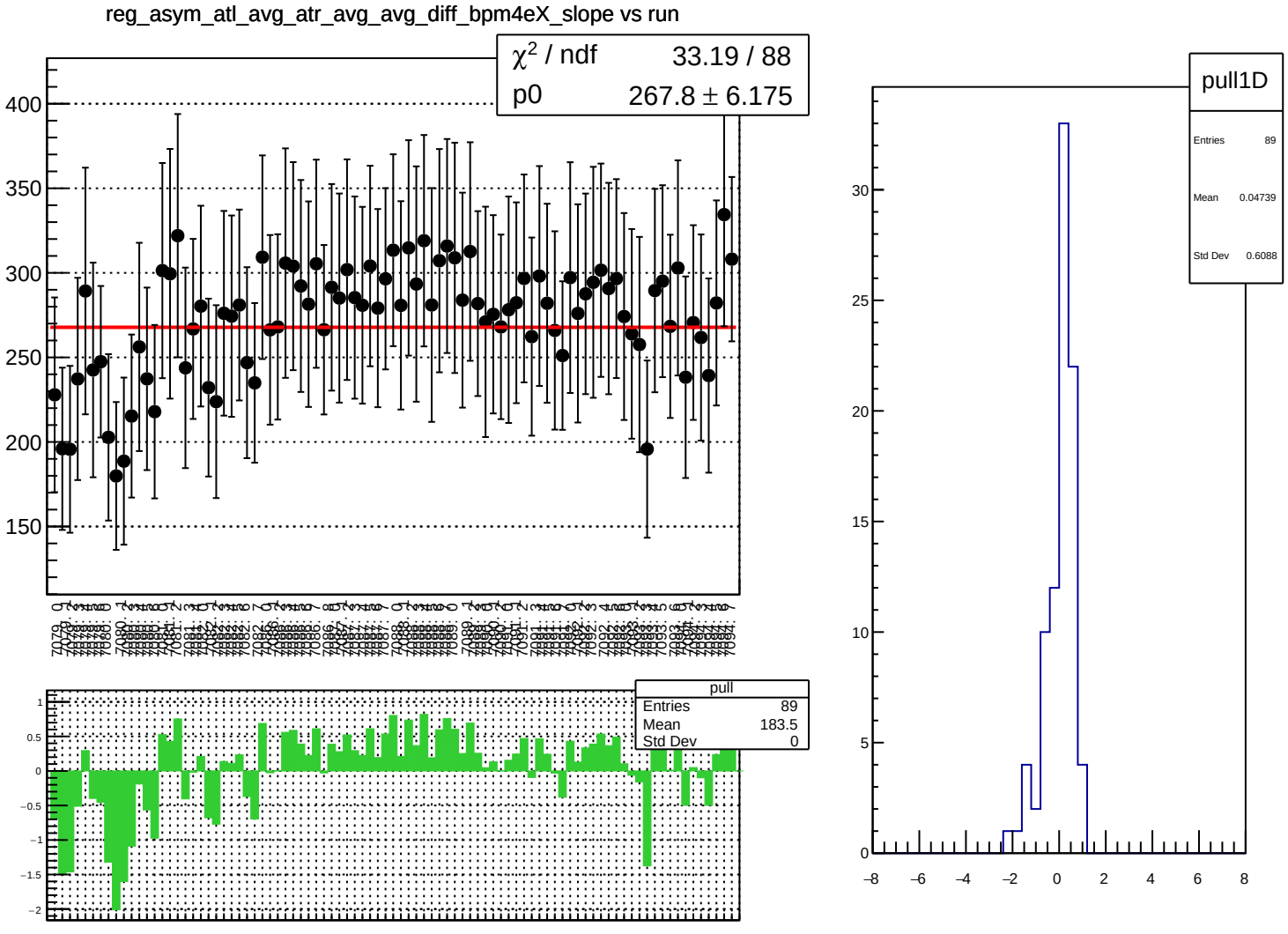

pull1D
Entries 89
Mean −0.007963
Std Dev 0.9476

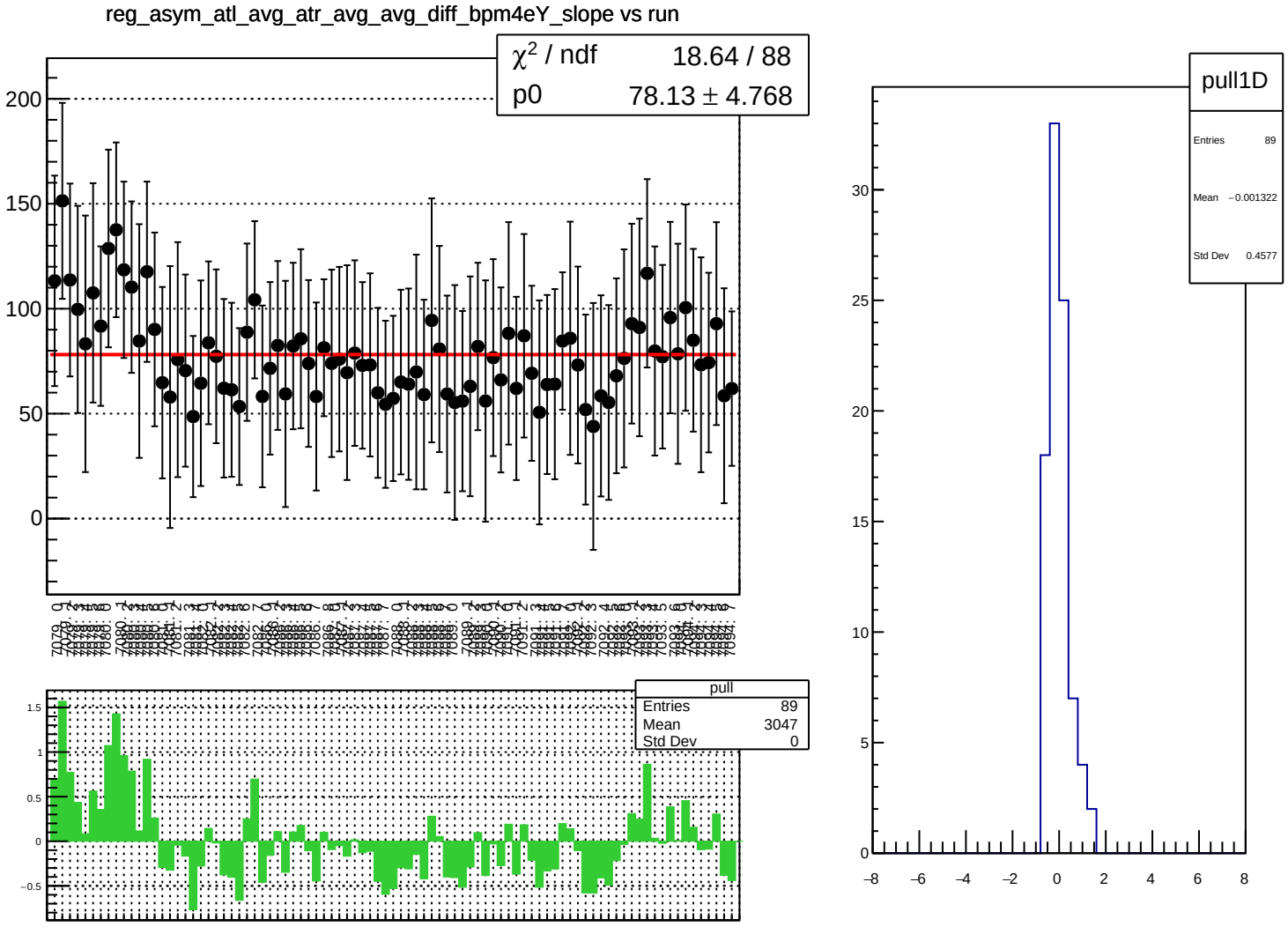

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 70.94 / 88
p0 7.304 ± 0.0514
pull
Entries 89
Mean 898.5
Std Dev 0
pull1D
Entries 89
Mean −0.004572
Std Dev 0.8928

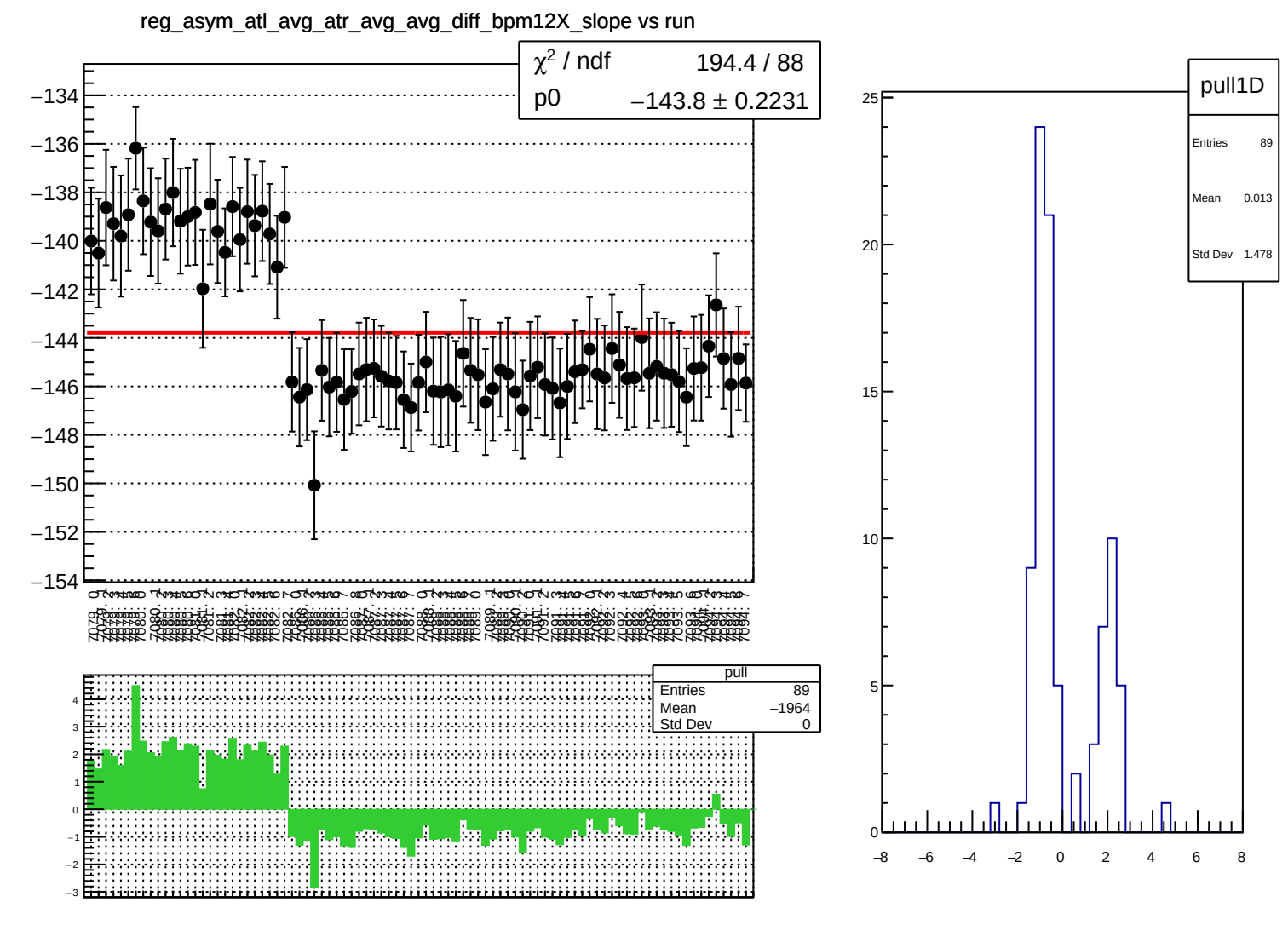

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 33.68 / 88
p0 −273.4 ± 6.41
−150
−200
−250
−300
−350
−400
pull
Entries 89
Mean 190.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.04595
Std Dev 0.6134
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

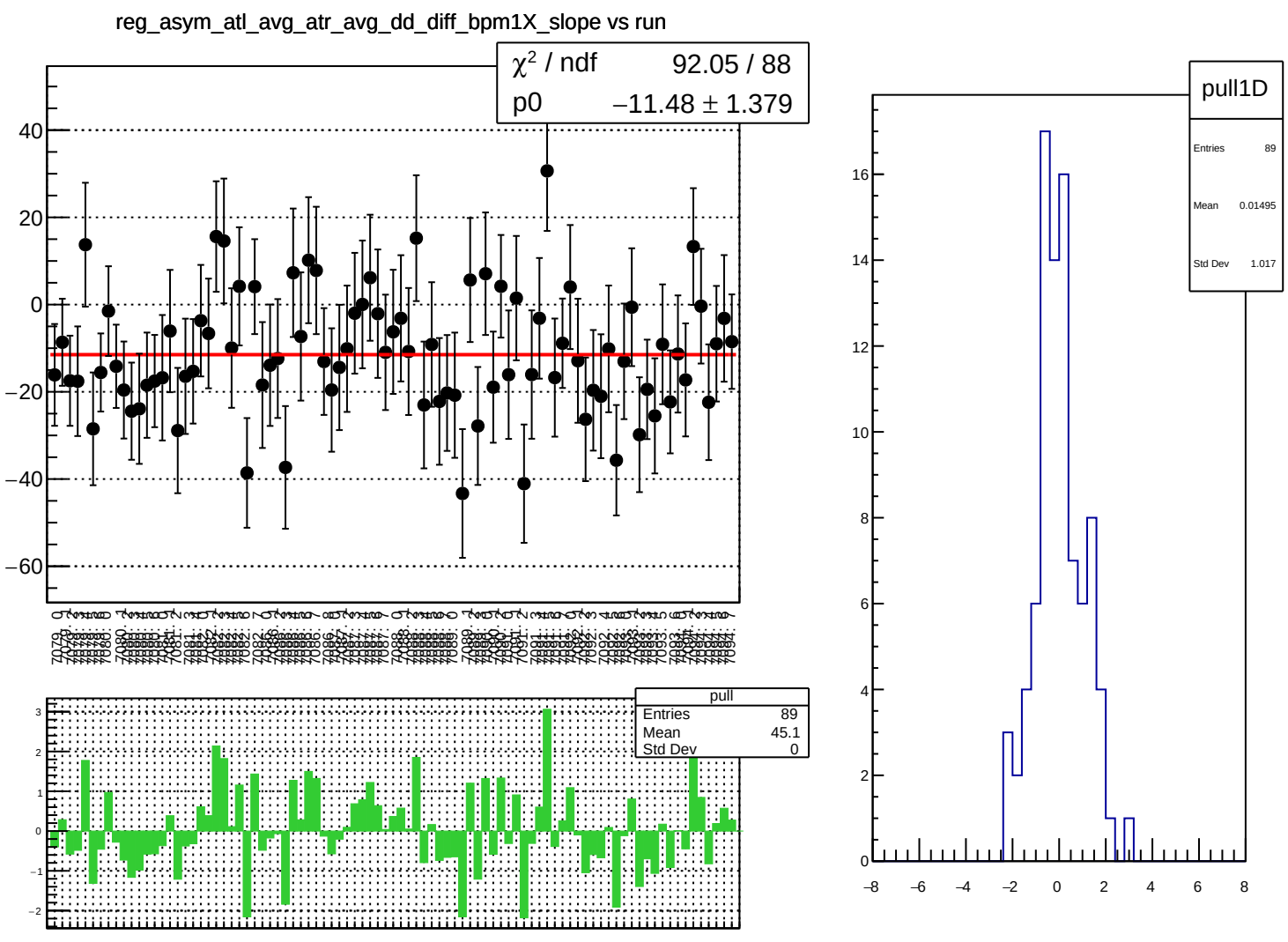

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.75 / 88
p0 −4.821 ± 4.537
pull
Entries 89
Mean −4077
Std Dev 0

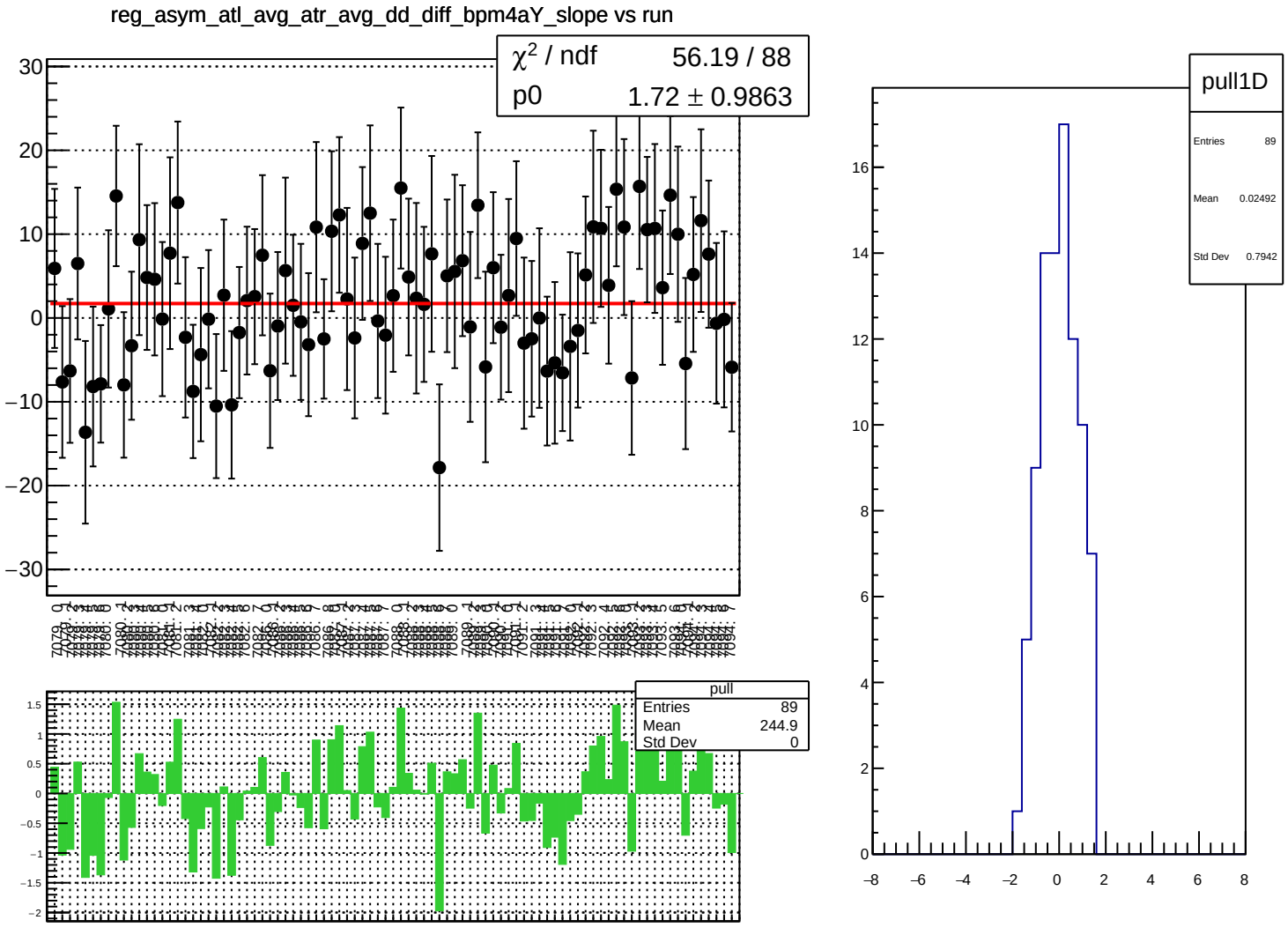

pull1D
Entries 89
Mean −0.0008756
Std Dev 0.4207

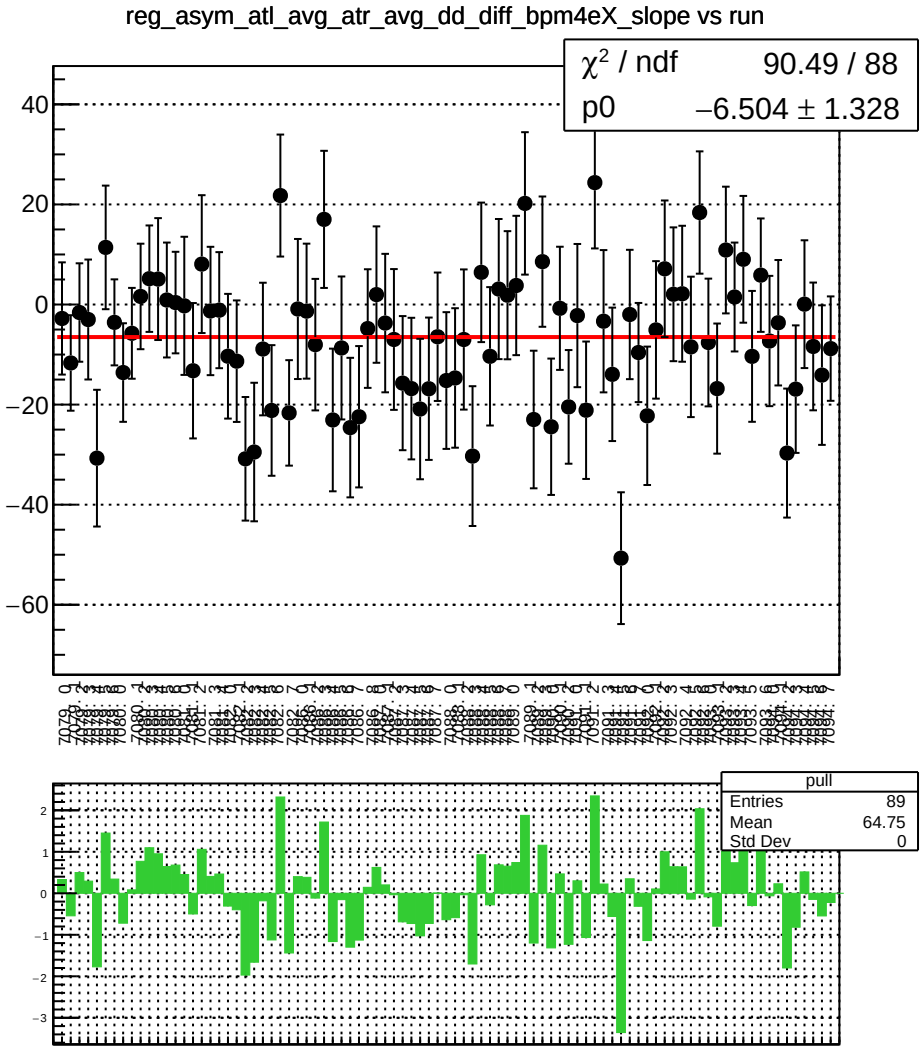

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.19 / 88
p0 267.8 ± 6.175
400
350
300
250
200
150
pull
Entries 89
Mean 183.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.04739
Std Dev 0.6088
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

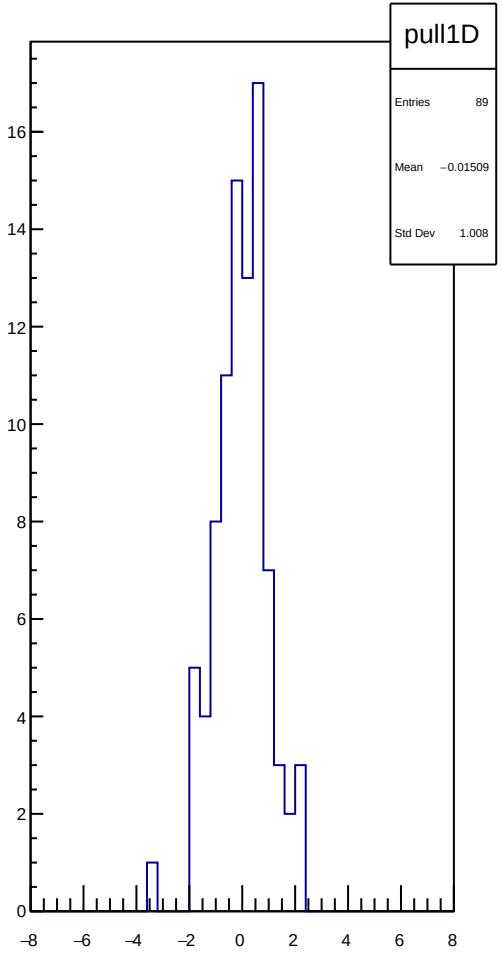

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.64 / 88
p0 78.13 ± 4.768
200
150
100
50
0
pull
Entries 89
Mean 3047
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean −0.001322
Std Dev 0.4577
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

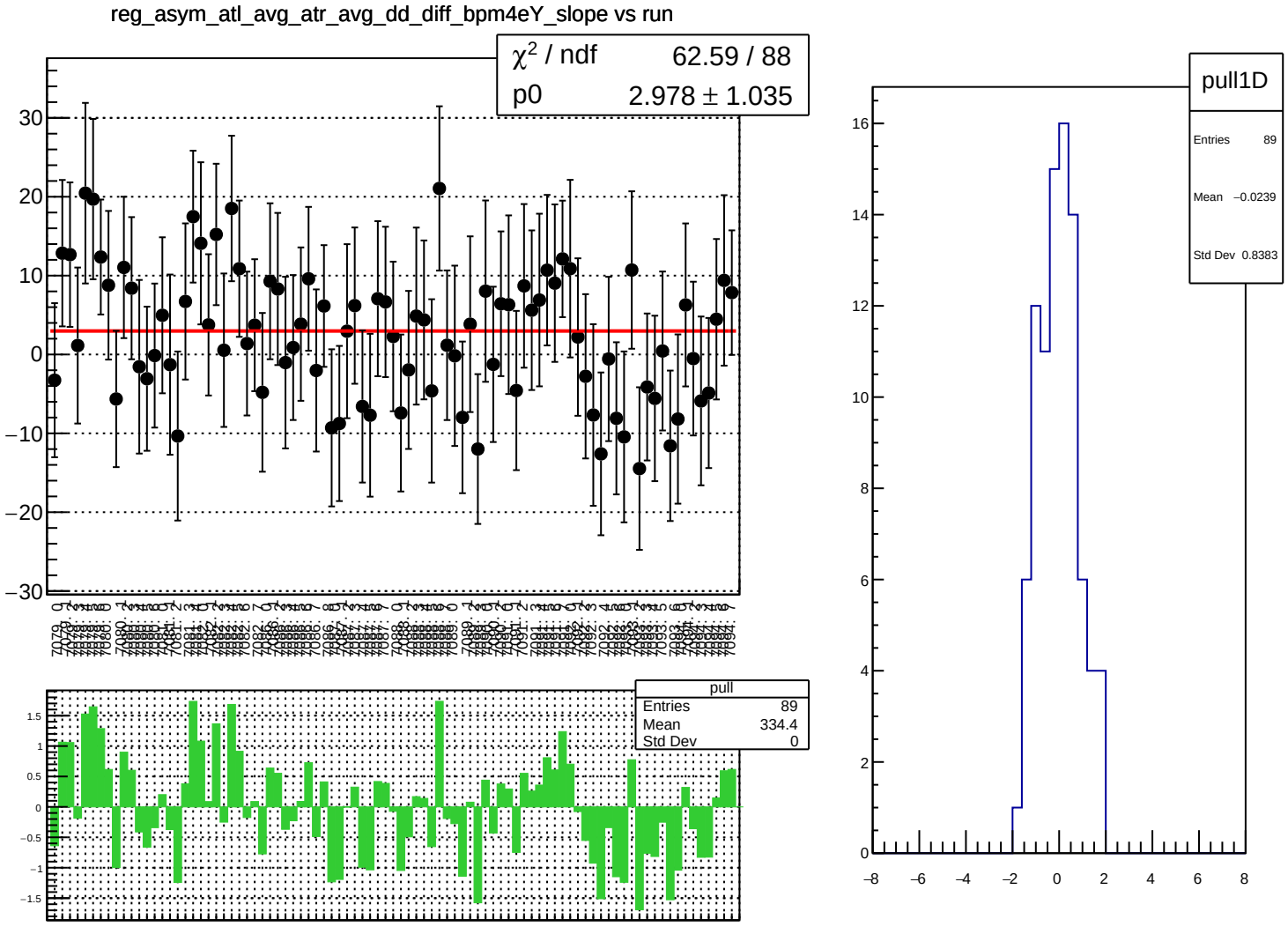

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 194.4 / 88
p0 −143.8 ± 0.2231
pull
Entries 89
Mean −1964
Std Dev 0
pull1D
Entries 89
Mean 0.013
Std Dev 1.478

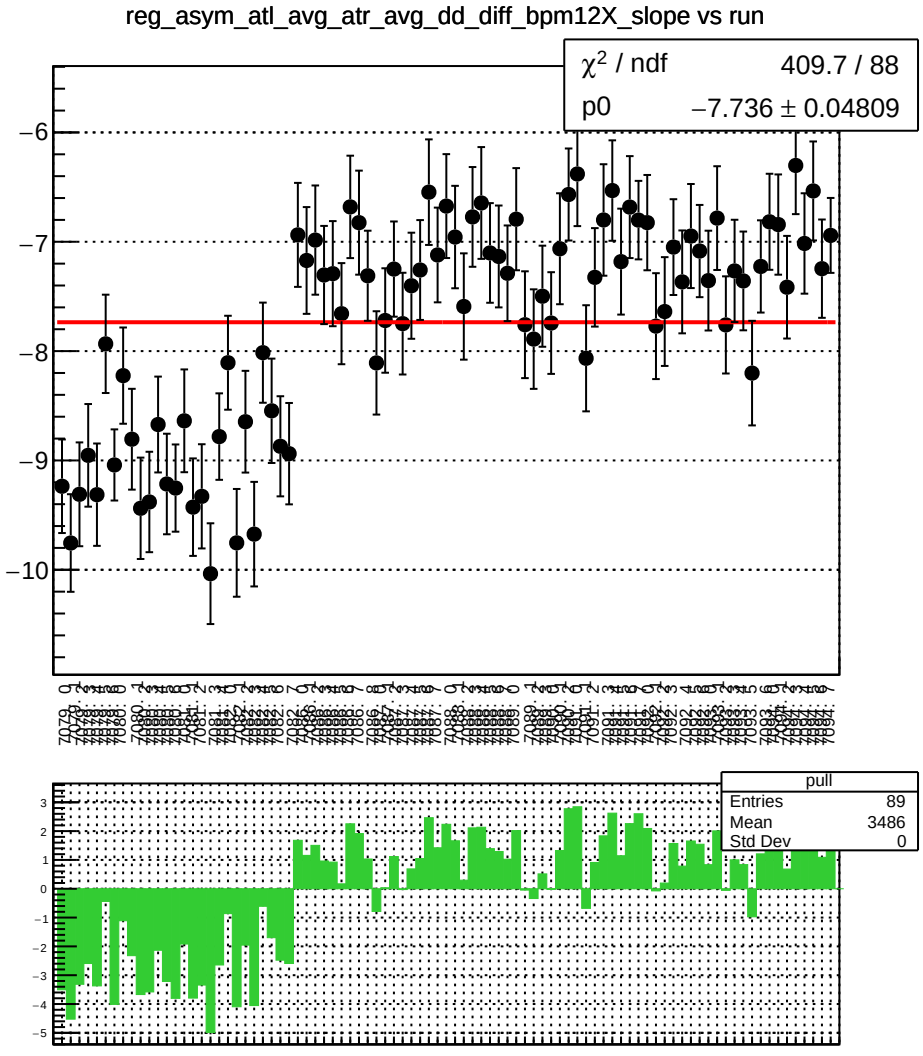

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 92.05 / 88
p0 −11.48 ± 1.379
pull
Entries 89
Mean 45.1
Std Dev 0
pull1D
Entries 89
Mean 0.01495
Std Dev 1.017

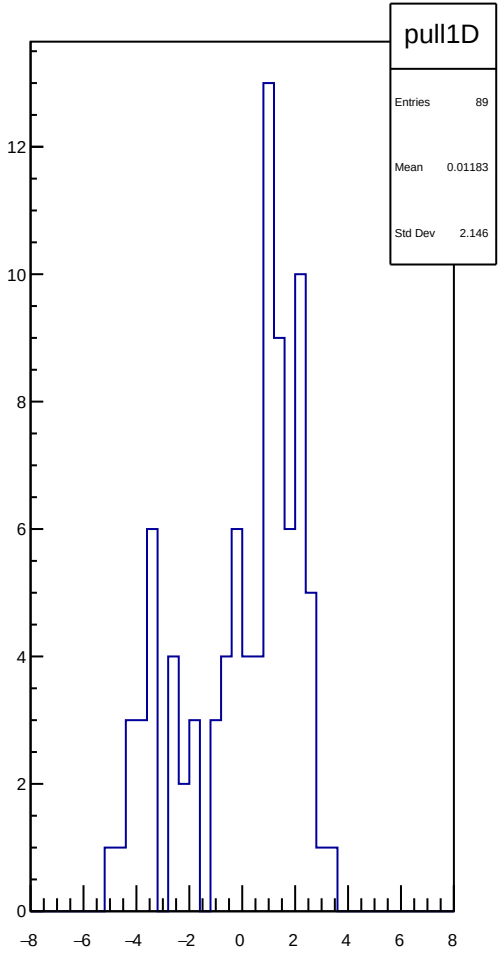

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.19 / 88
p0 1.72 ± 0.9863
pull
Entries 89
Mean 244.9
Std Dev 0
pull1D
Entries 89
Mean 0.02492
Std Dev 0.7942

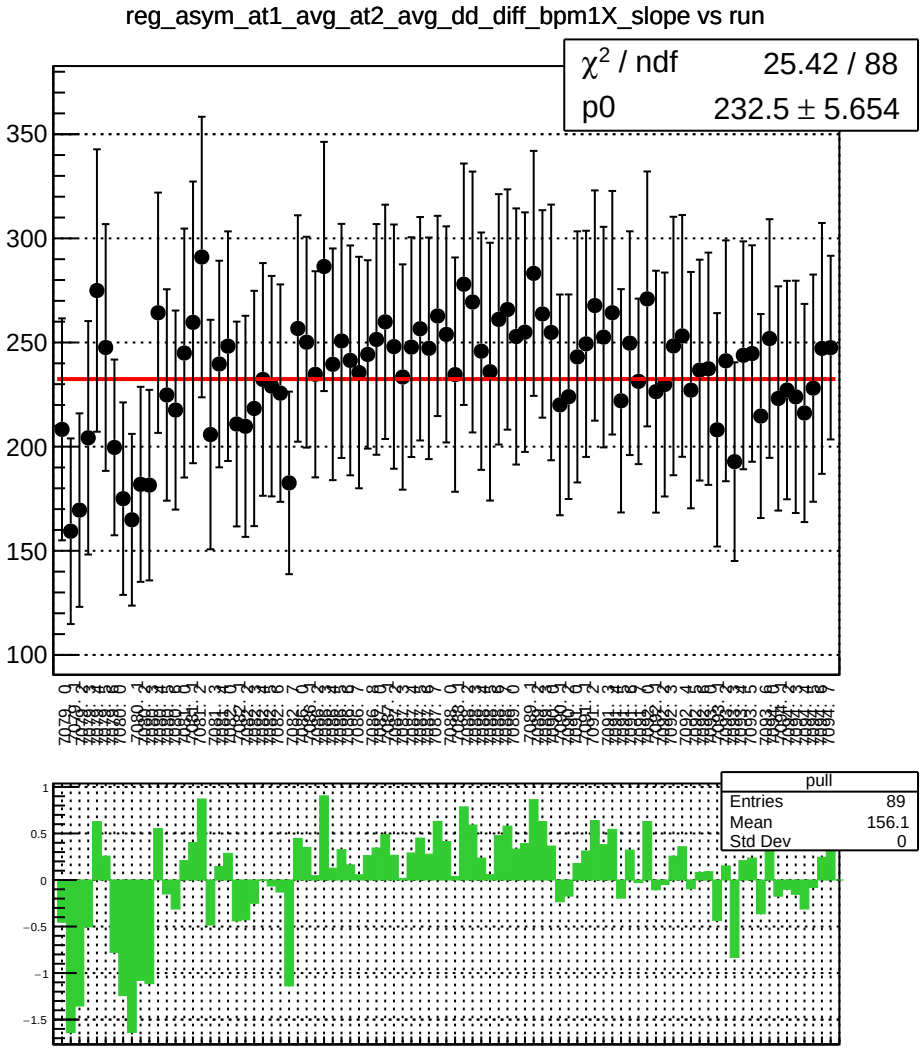

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 90.49 / 88
p0 −6.504 ± 1.328
pull
Entries 89
Mean 64.75
Std Dev 0

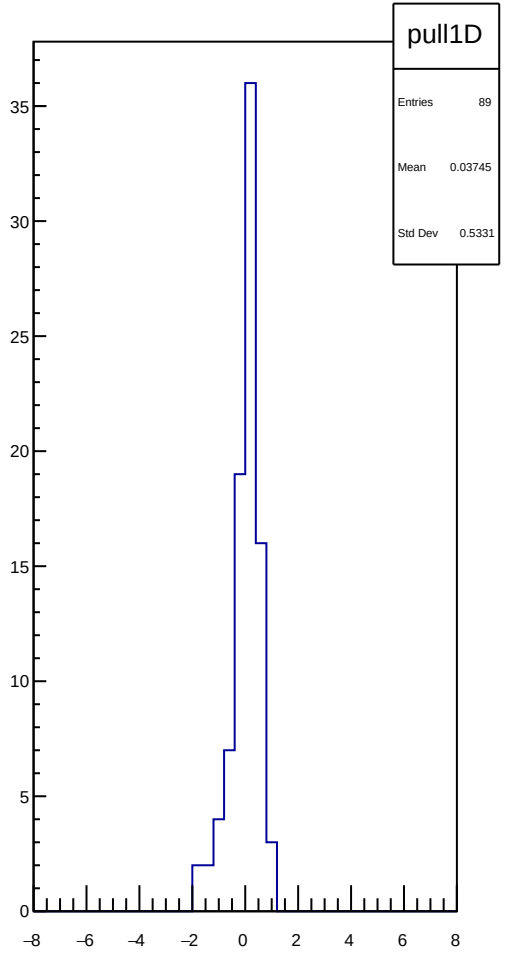

pull1D
Entries 89
Mean −0.01509
Std Dev 1.008

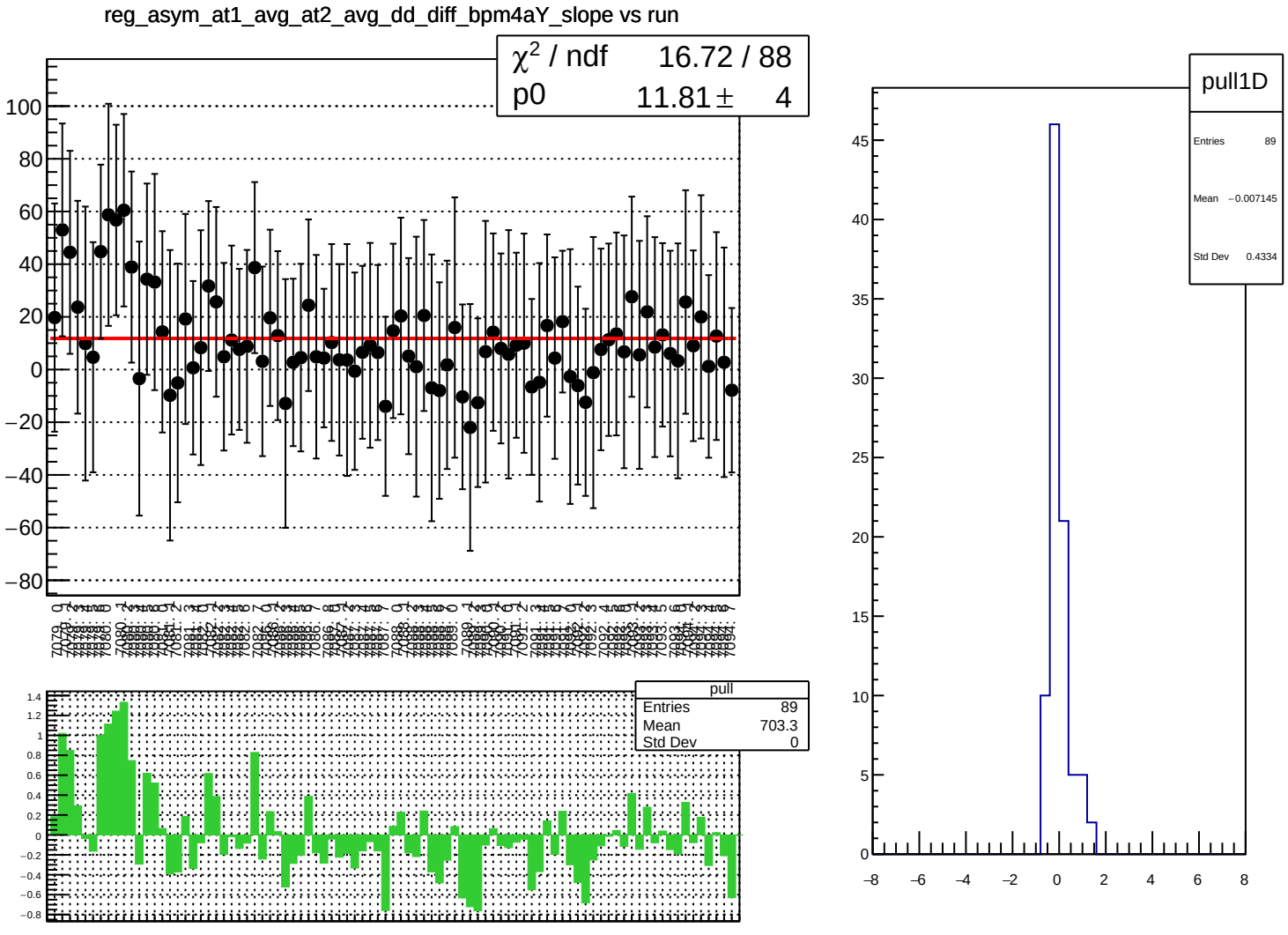

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.59 / 88
p0 2.978 ± 1.035
pull
Entries 89
Mean 334.4
Std Dev 0
pull1D
Entries 89
Mean −0.0239
Std Dev 0.8383

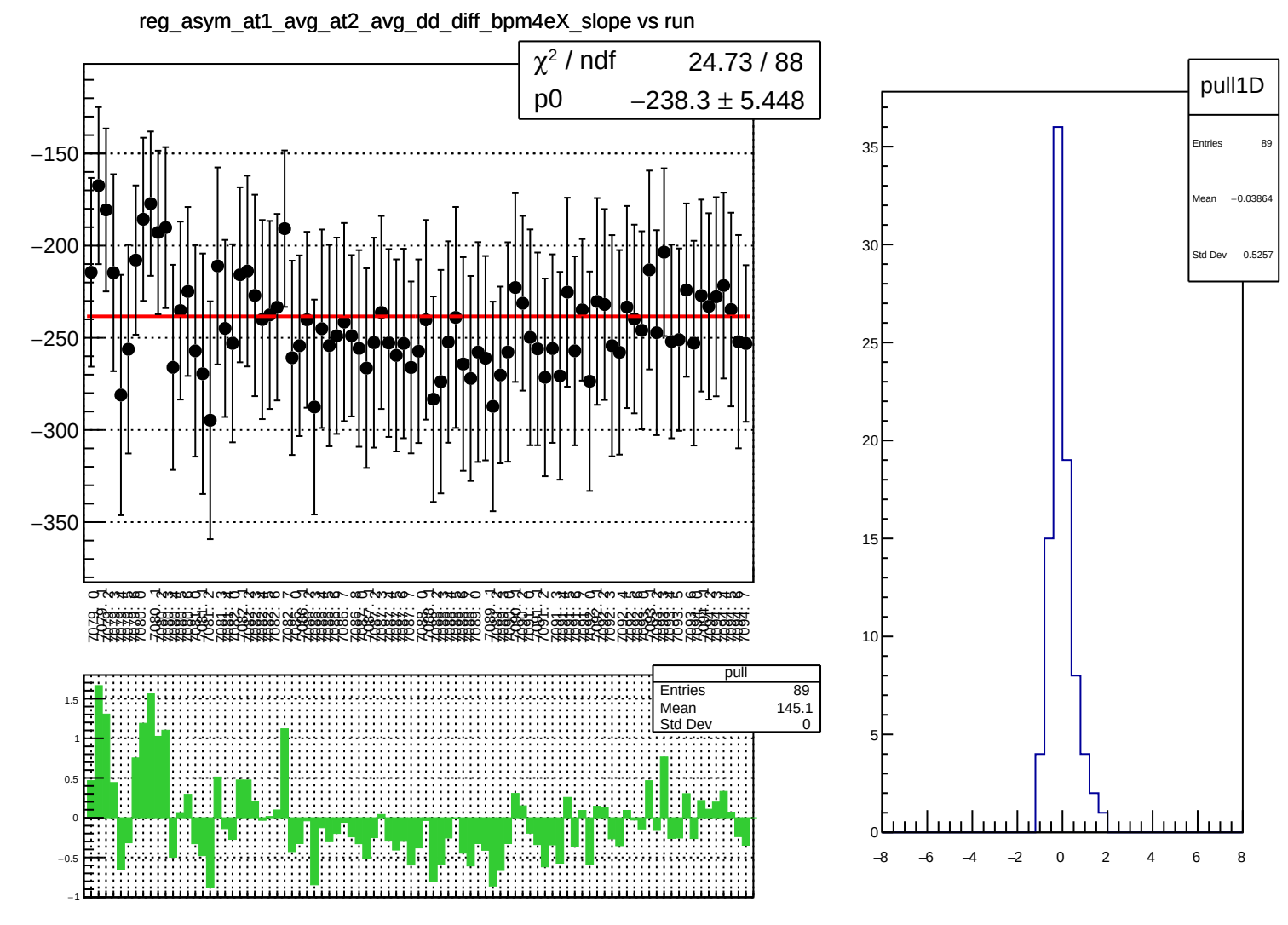

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 409.7 / 88
p0 −7.736 ± 0.04809
pull
Entries 89
Mean 3486
Std Dev 0

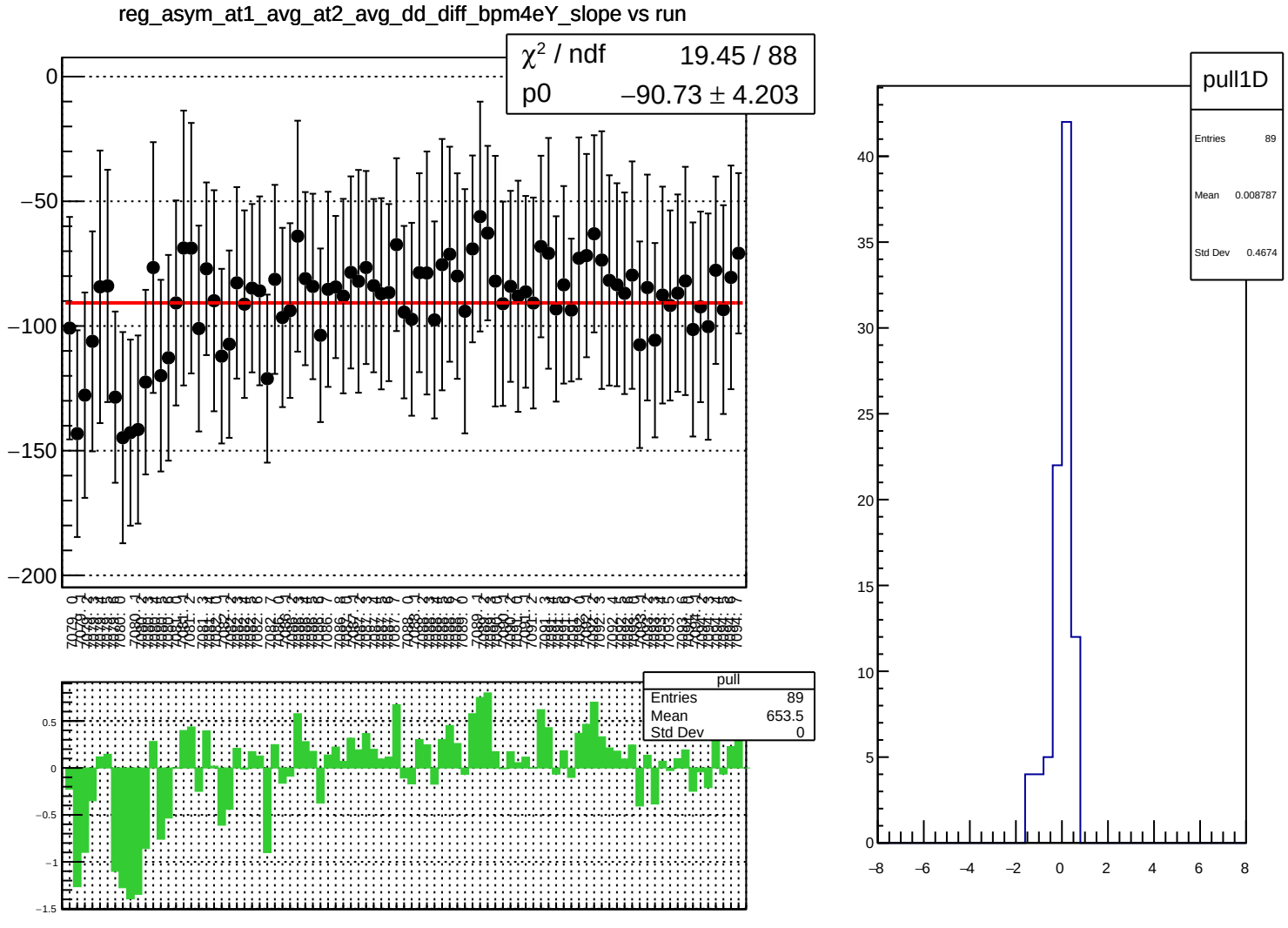

pull1D
Entries 89
Mean 0.01183
Std Dev 2.146

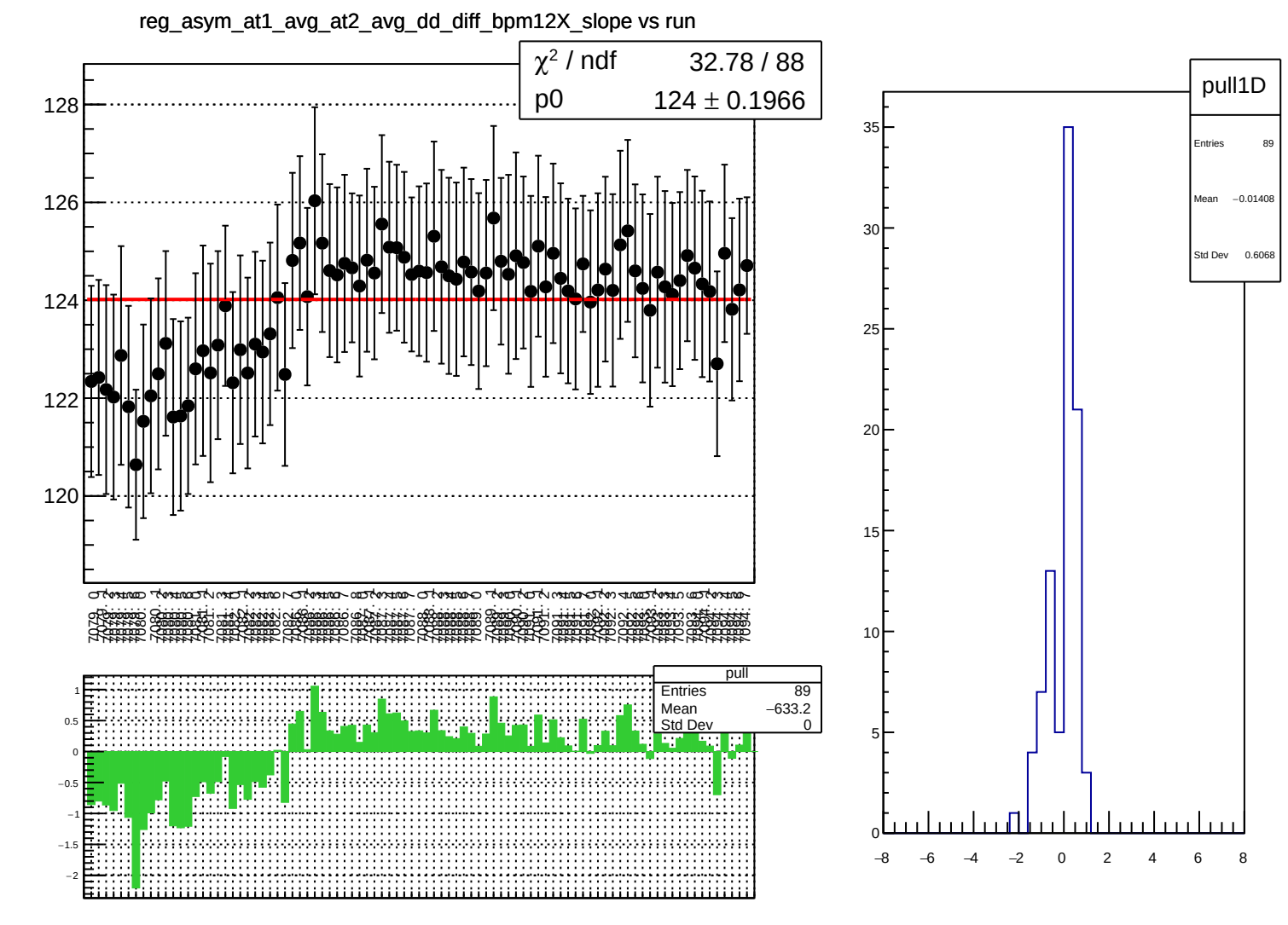

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 25.42 / 88
p0 232.5 ± 5.654
350
300
250
200
150
100
pull
Entries 89
Mean 156.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

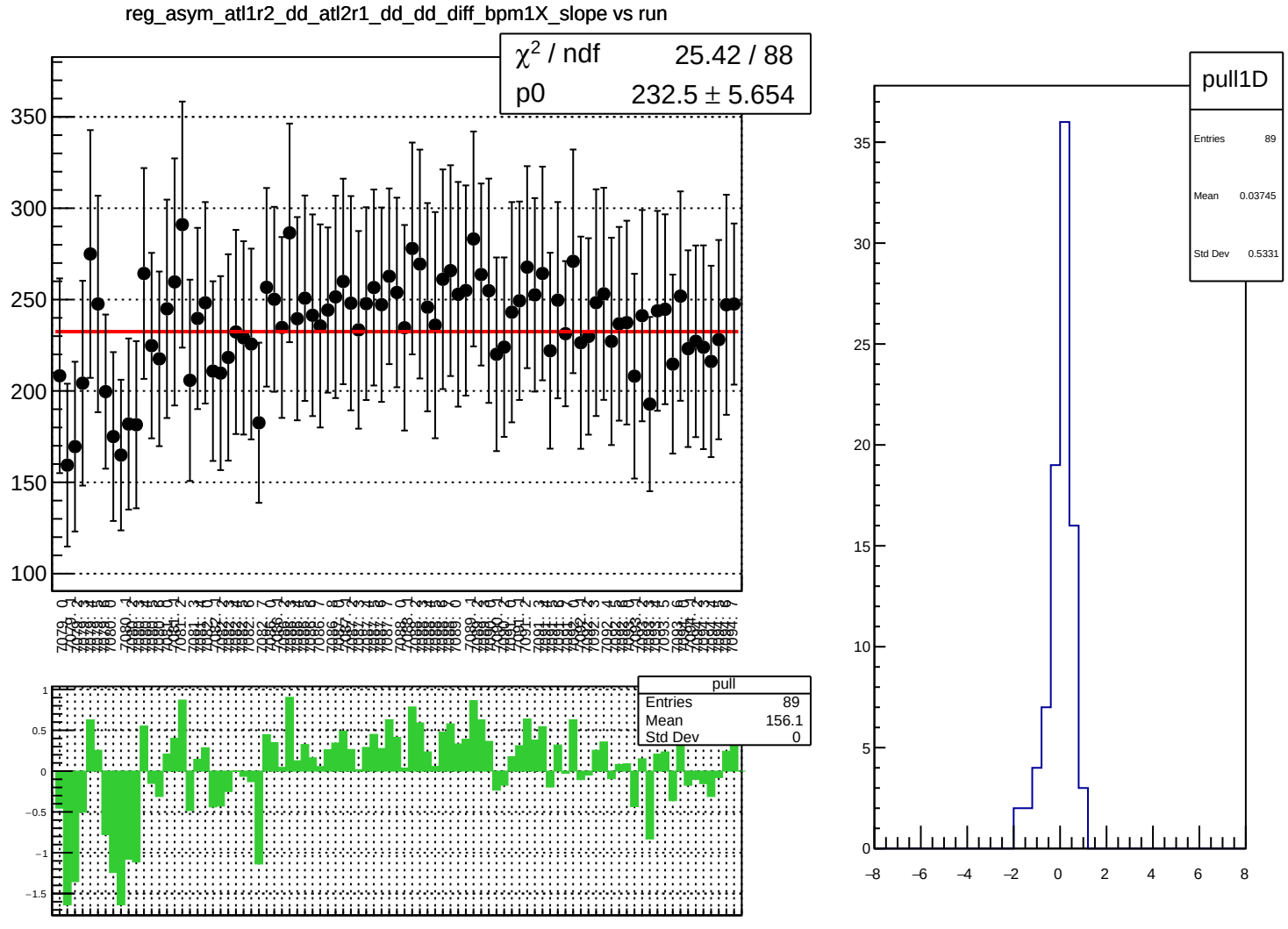

pull1D
Entries 89
Mean 0.03745
Std Dev 0.5331
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

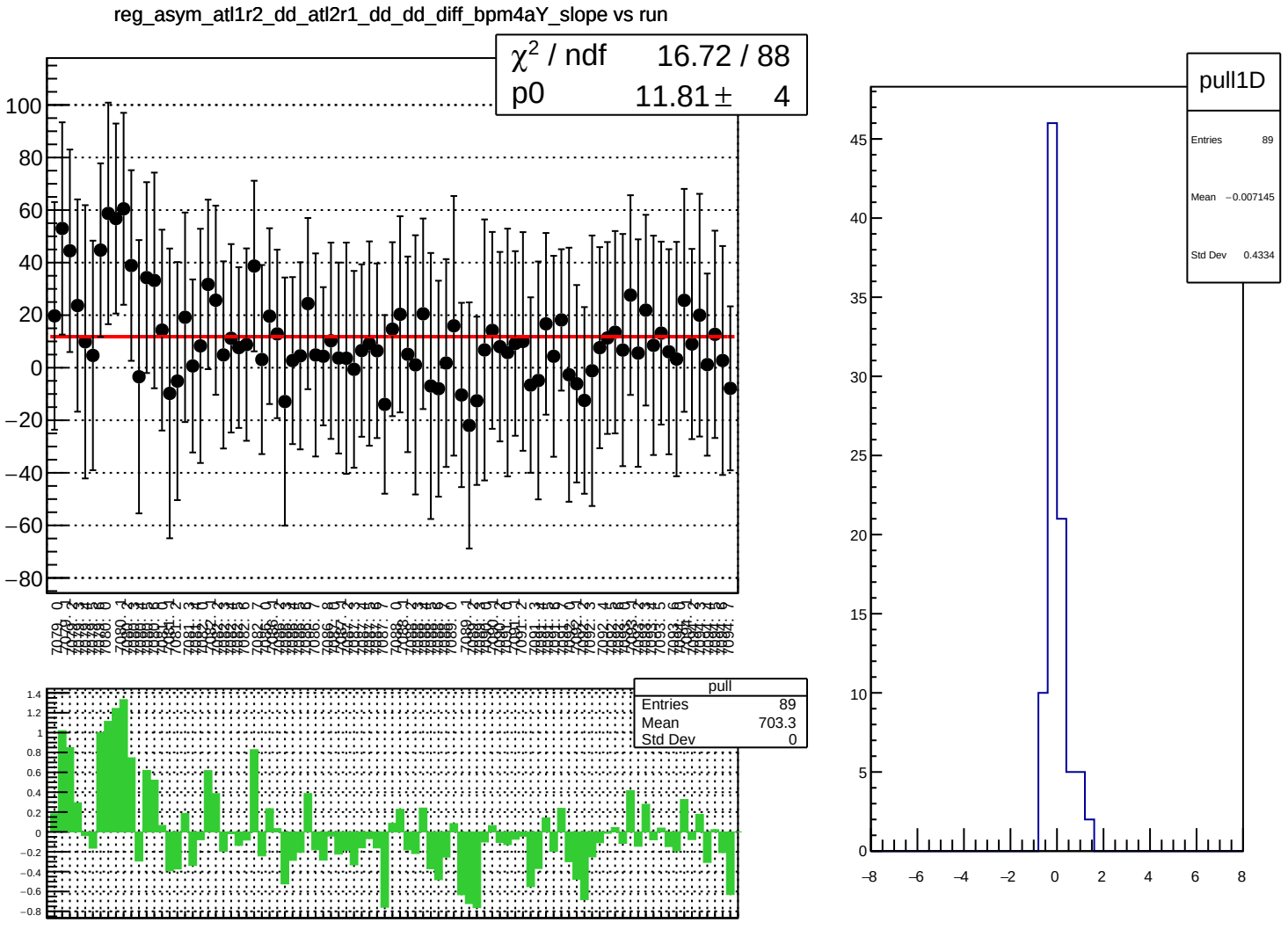

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.72 / 88
p0 11.81 ± 4
pull
Entries 89
Mean 703.3
Std Dev 0
pull1D
Entries 89
Mean −0.007145
Std Dev 0.4334

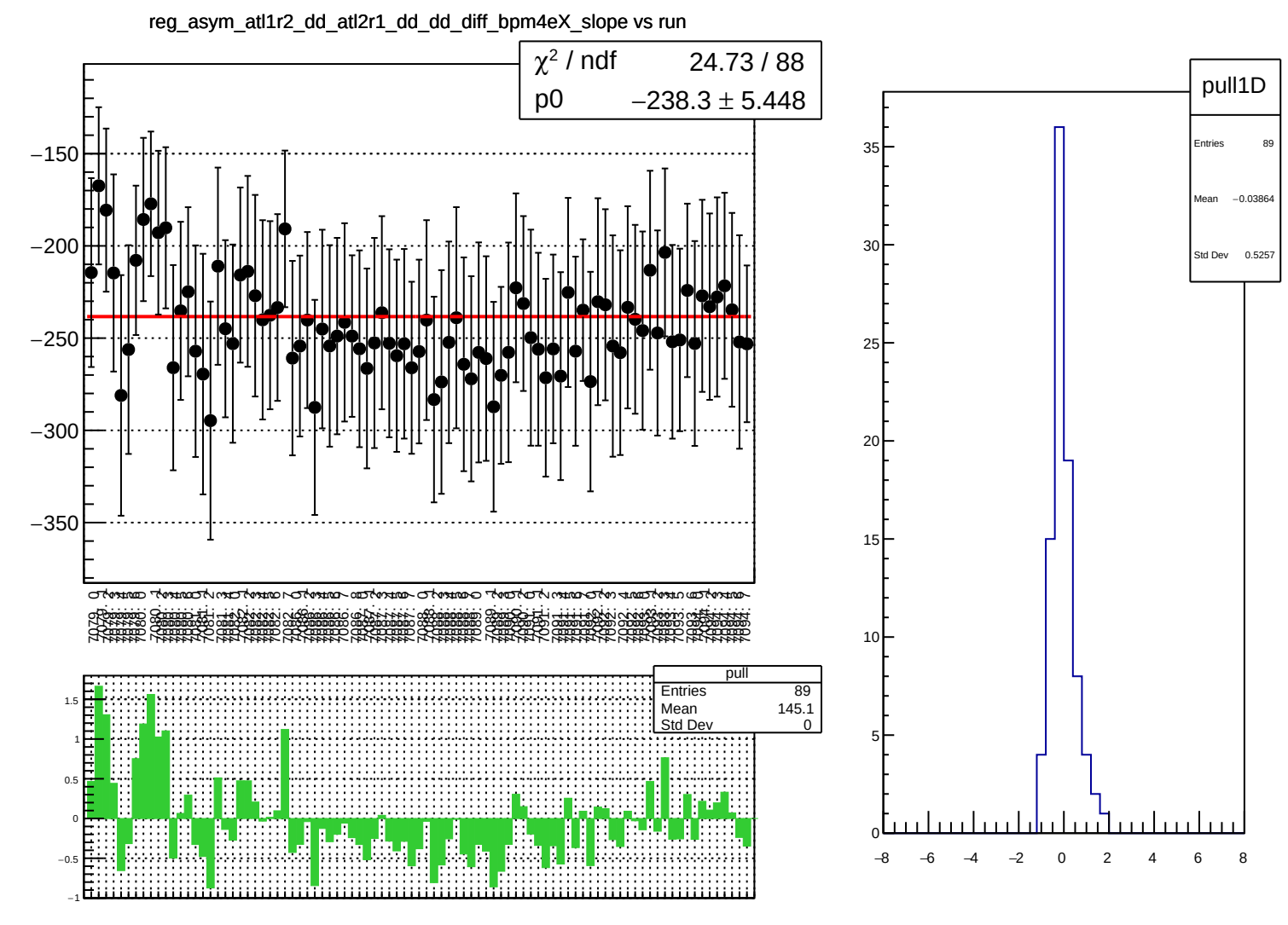

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.73 / 88
p0 −238.3 ± 5.448
−150
−200
−250
−300
−350
pull
Entries 89
Mean 145.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.03864
Std Dev 0.5257
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

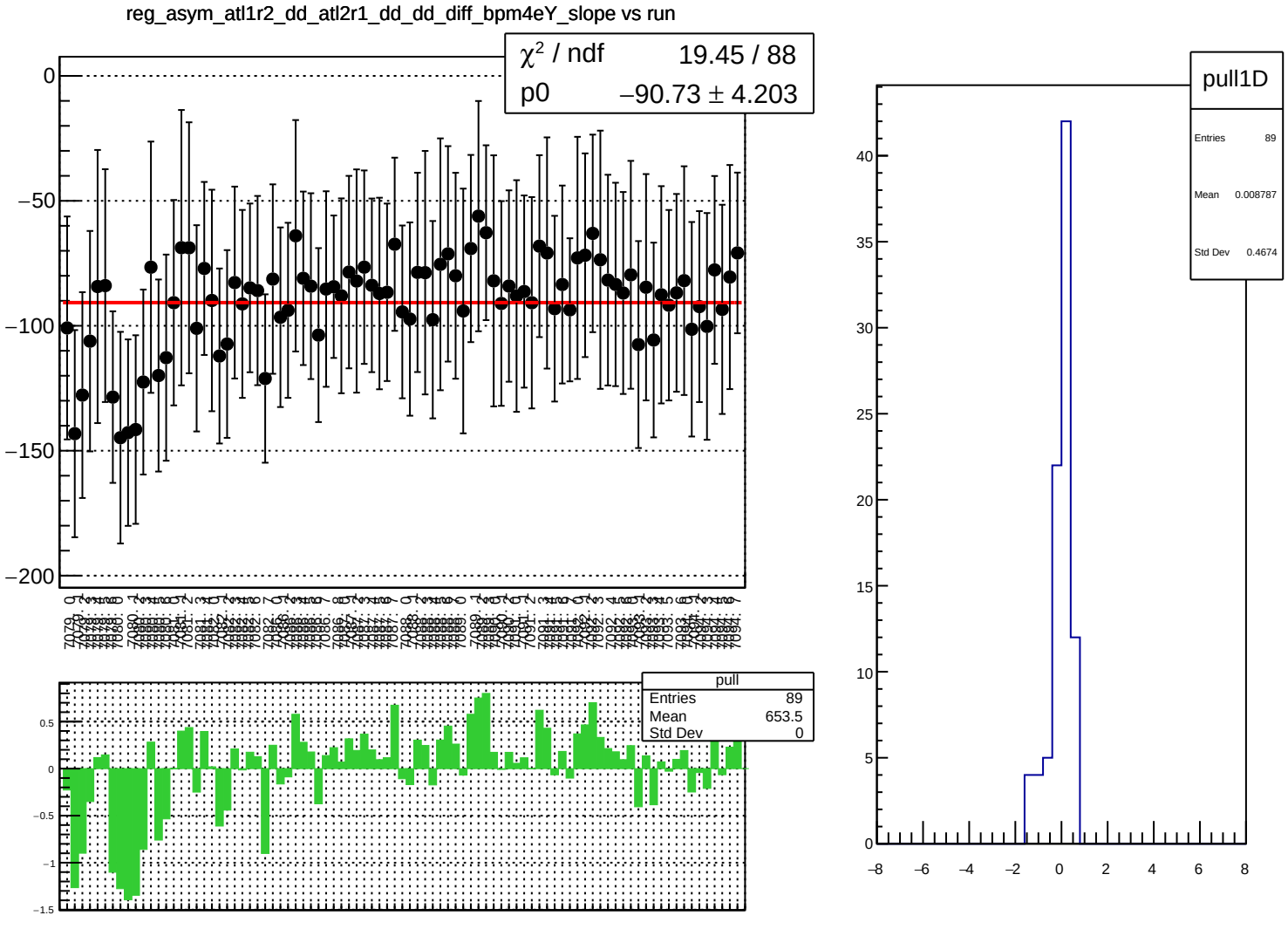

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.45 / 88
p0 −90.73 ± 4.203
0
−50
−100
−150
−200
pull
Entries 89
Mean 653.5
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.008787
Std Dev 0.4674
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

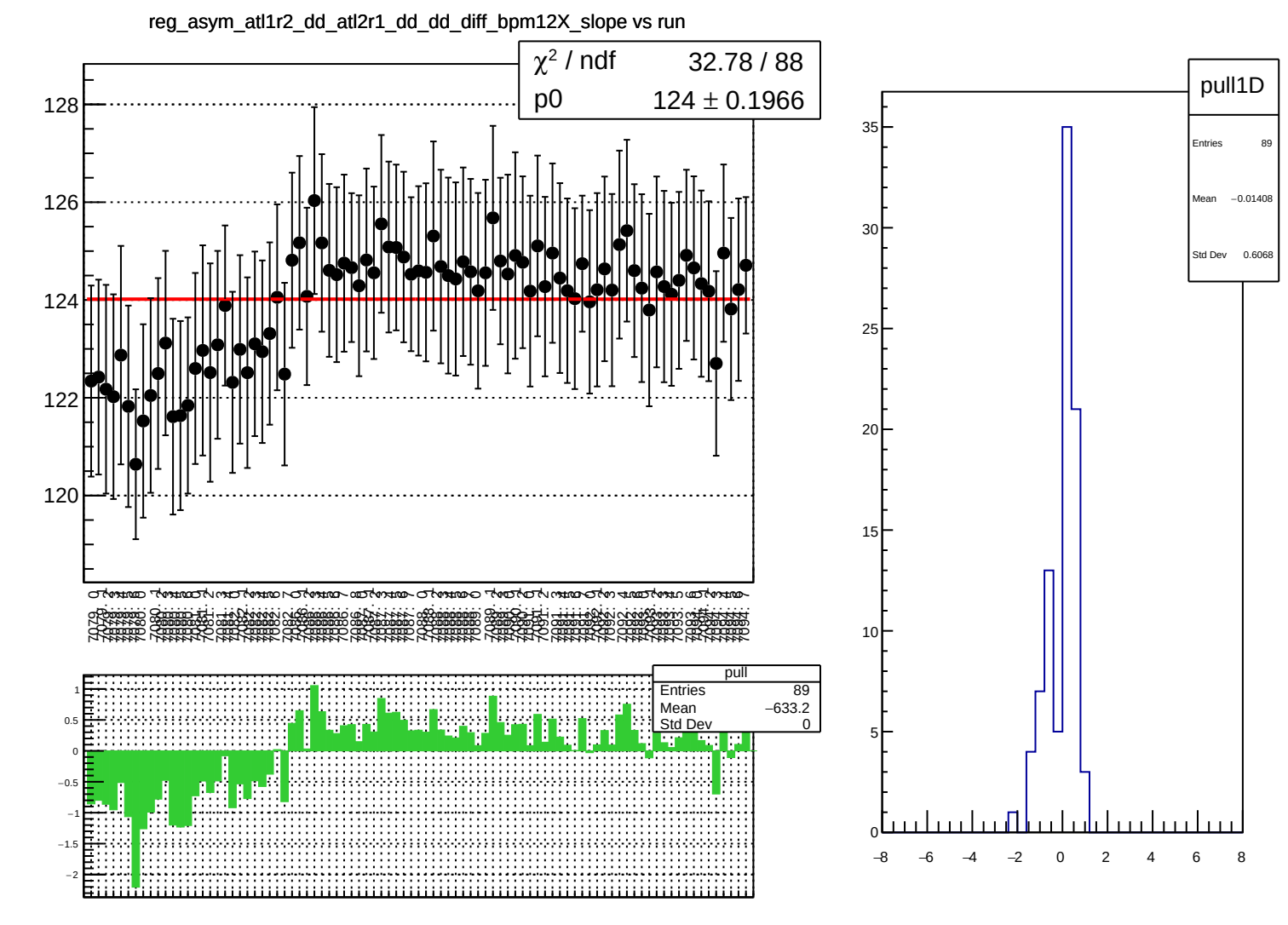

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 32.78 / 88
p0 124 ± 0.1966
128
126
124
122
120
pull
Entries 89
Mean −633.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01408
Std Dev 0.6068
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

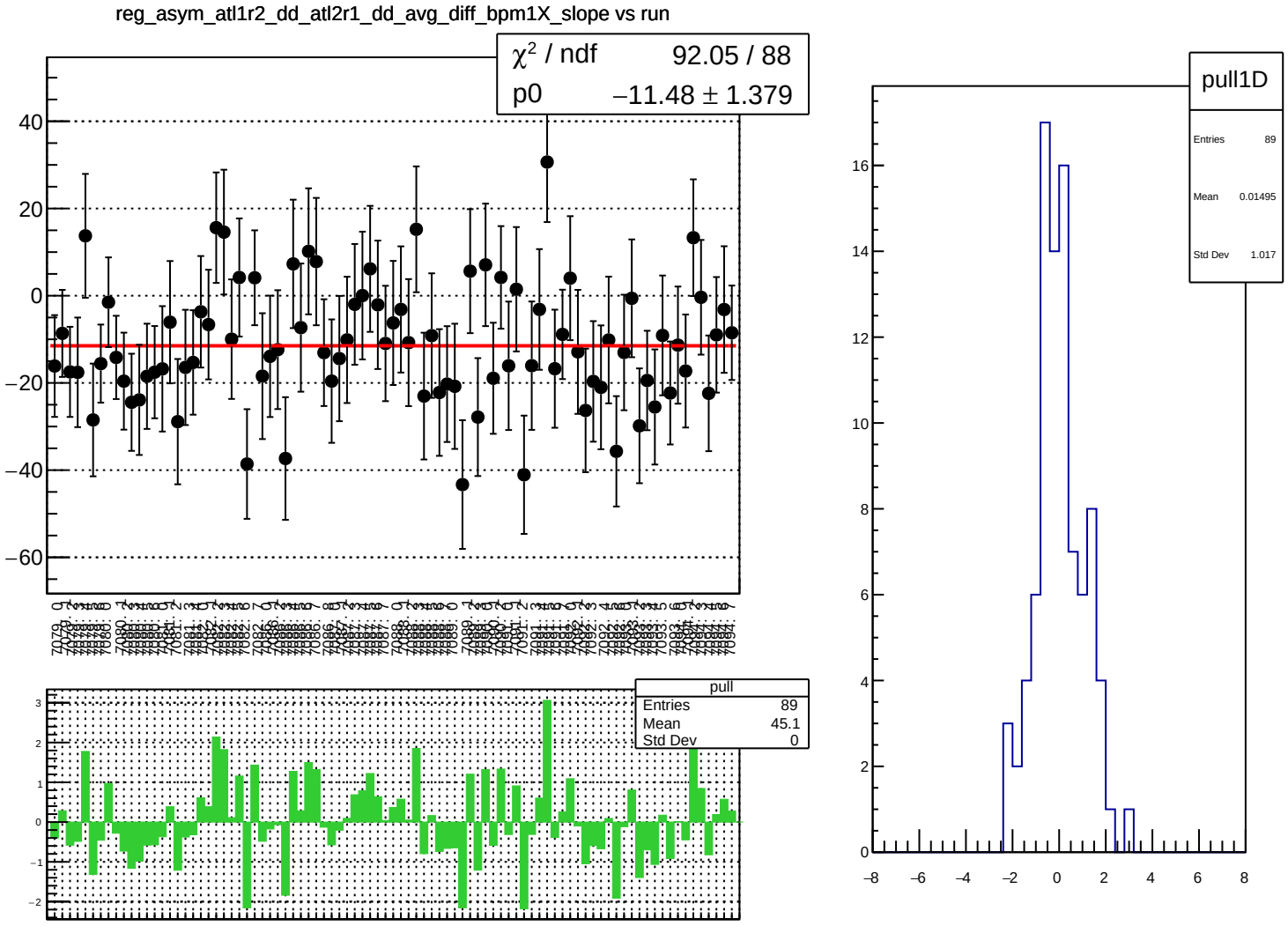

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 25.42 / 88
p0 232.5 ± 5.654
350
300
250
200
150
100
pull
Entries 89
Mean 156.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.03745
Std Dev 0.5331
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

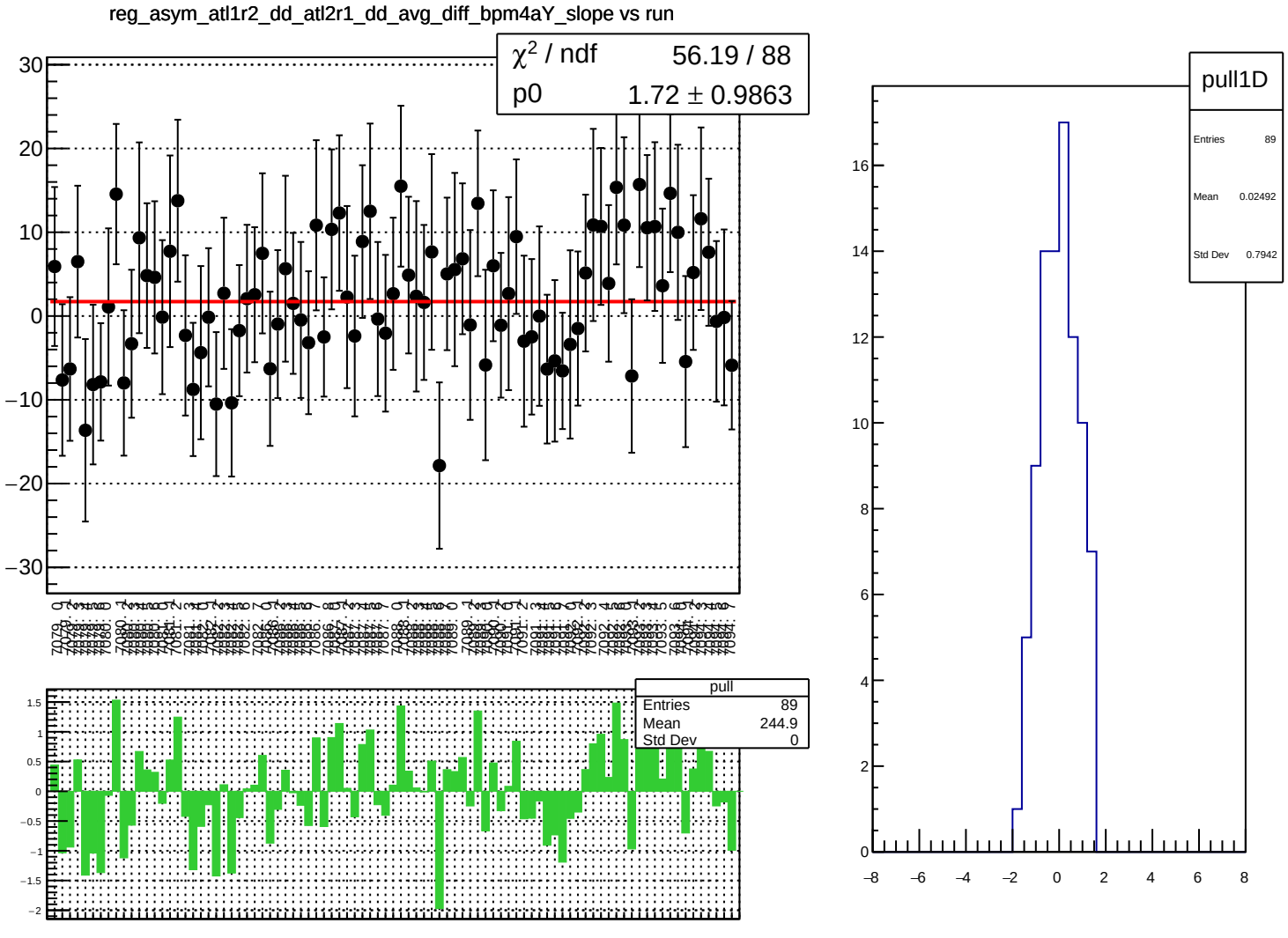

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.72 / 88
p0 11.81 ± 4
pull
Entries 89
Mean 703.3
Std Dev 0
pull1D
Entries 89
Mean −0.007145
Std Dev 0.4334

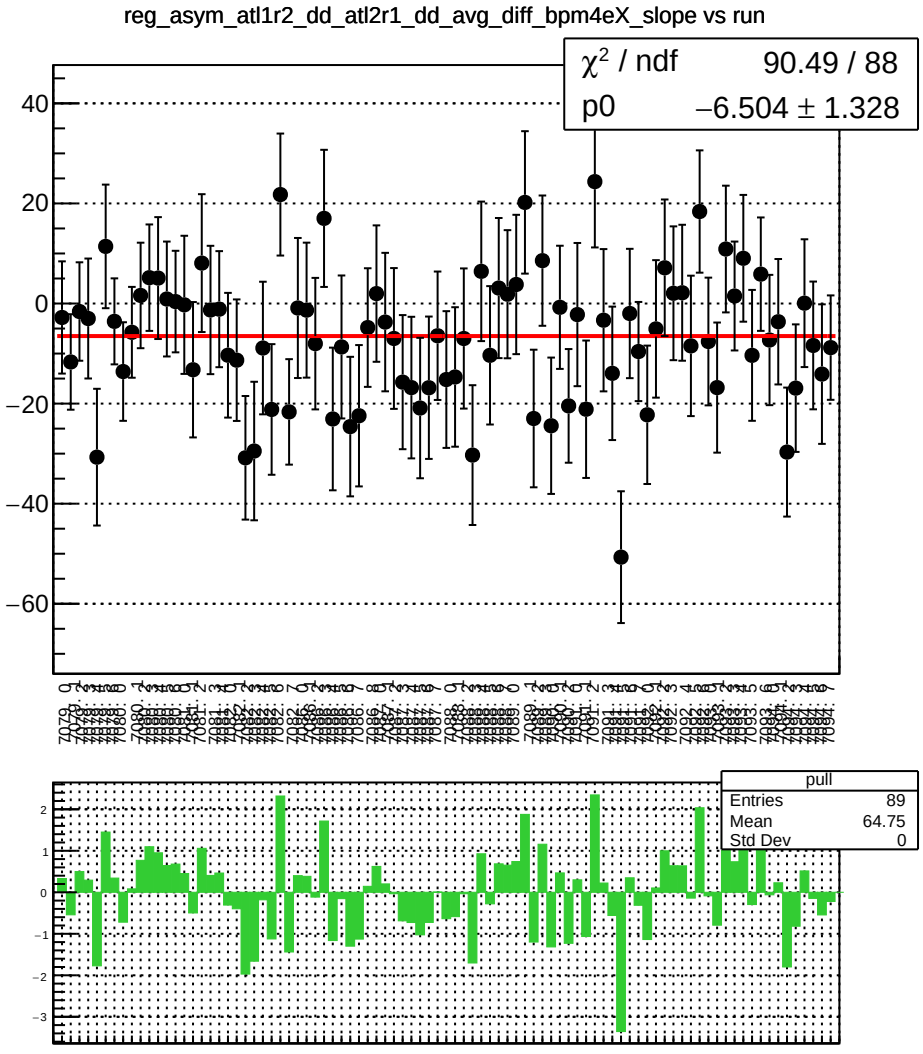

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.73 / 88
p0 −238.3 ± 5.448
−150
−200
−250
−300
−350
pull
Entries 89
Mean 145.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.03864
Std Dev 0.5257
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

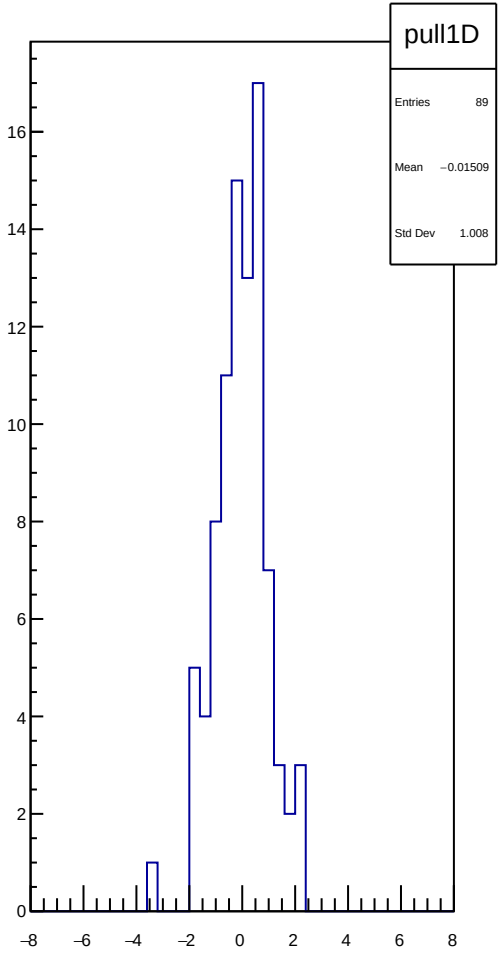

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.45 / 88
p0 −90.73 ± 4.203
0
−50
−100
−150
−200
pull
Entries 89
Mean 653.5
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.008787
Std Dev 0.4674
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

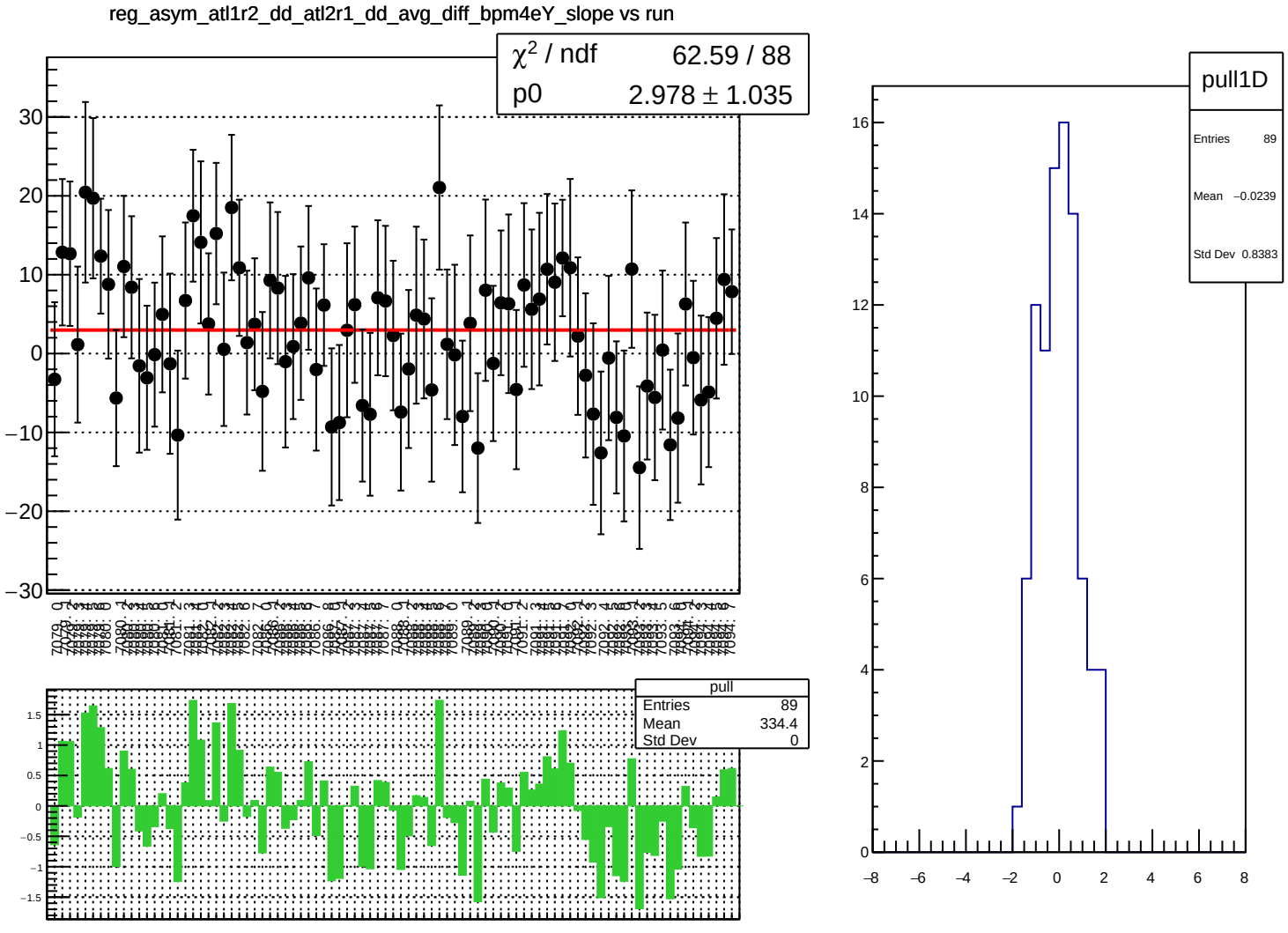

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 32.78 / 88
p0 124 ± 0.1966
128
126
124
122
120
pull
Entries 89
Mean −633.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01408
Std Dev 0.6068
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

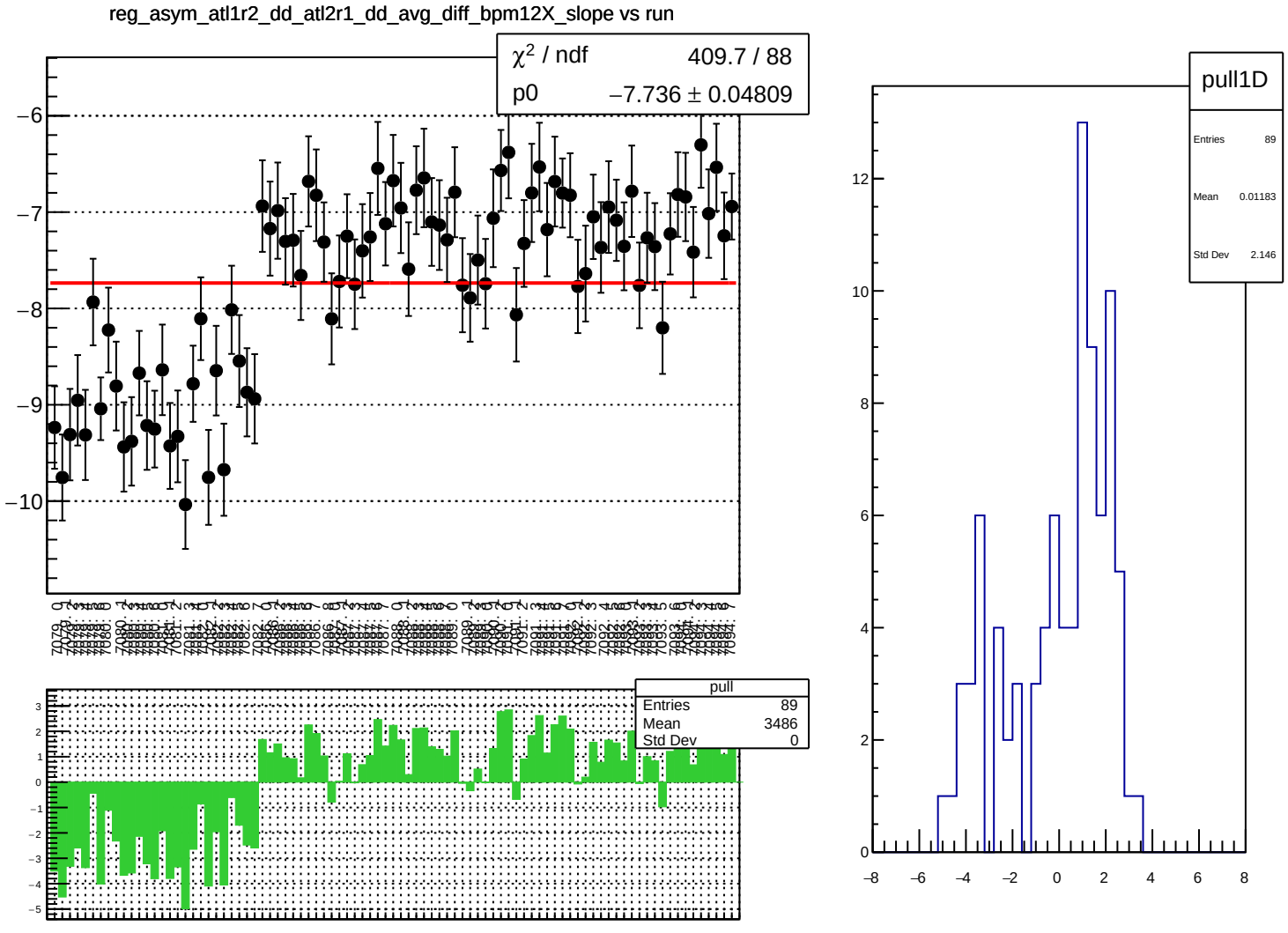

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 92.05 / 88
p0 −11.48 ± 1.379
pull
Entries 89
Mean 45.1
Std Dev 0
pull1D
Entries 89
Mean 0.01495
Std Dev 1.017

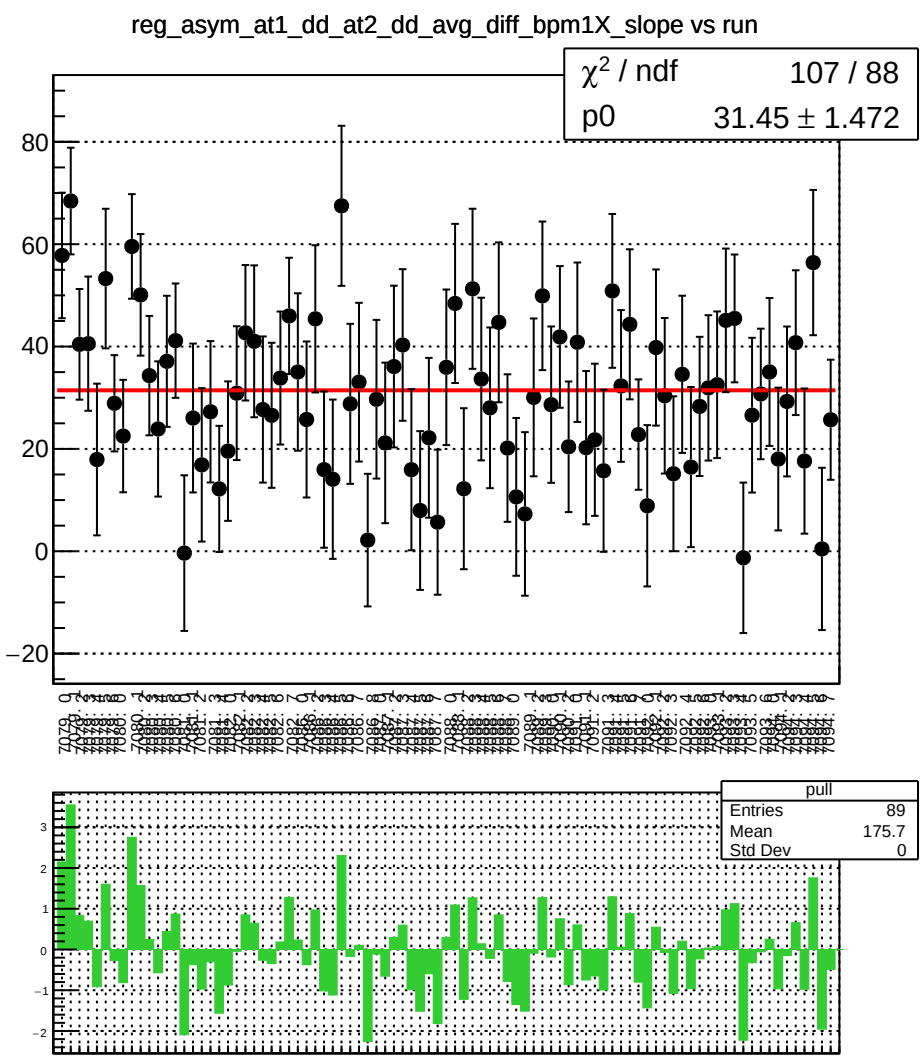

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.19 / 88
p0 1.72 ± 0.9863
pull
Entries 89
Mean 244.9
Std Dev 0
pull1D
Entries 89
Mean 0.02492
Std Dev 0.7942

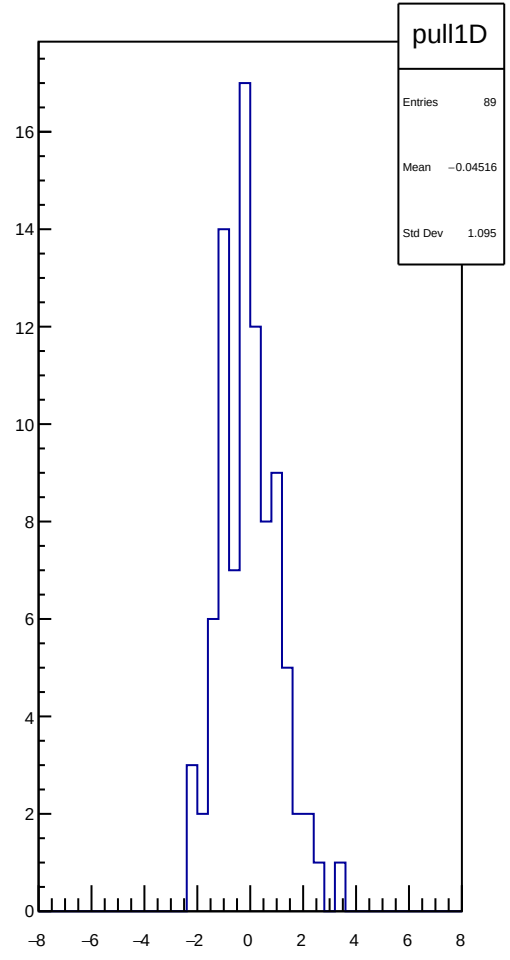

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.49 / 88
p0 −6.504 ± 1.328
pull
Entries 89
Mean 64.75
Std Dev 0

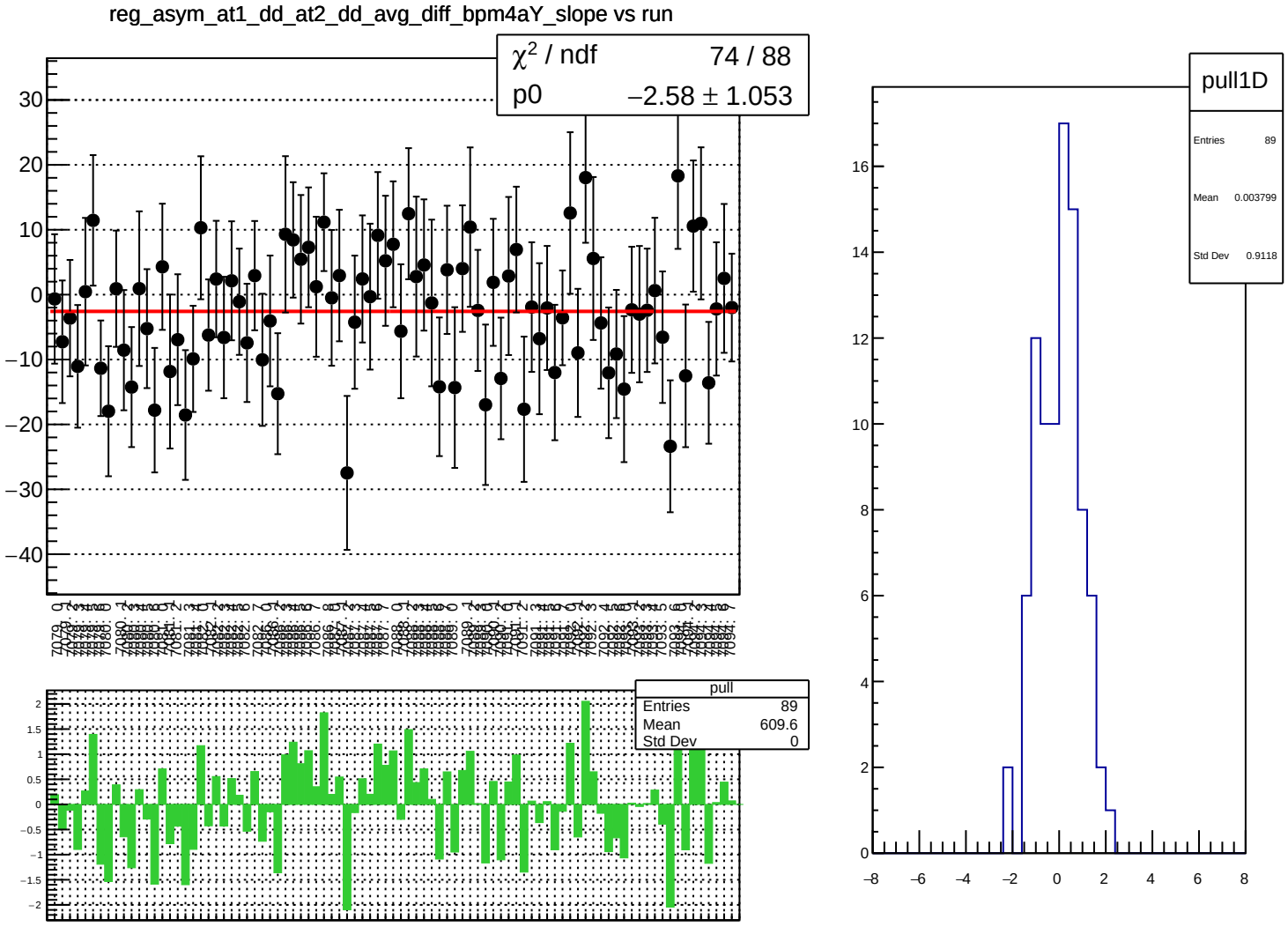

pull1D
Entries 89
Mean −0.01509
Std Dev 1.008

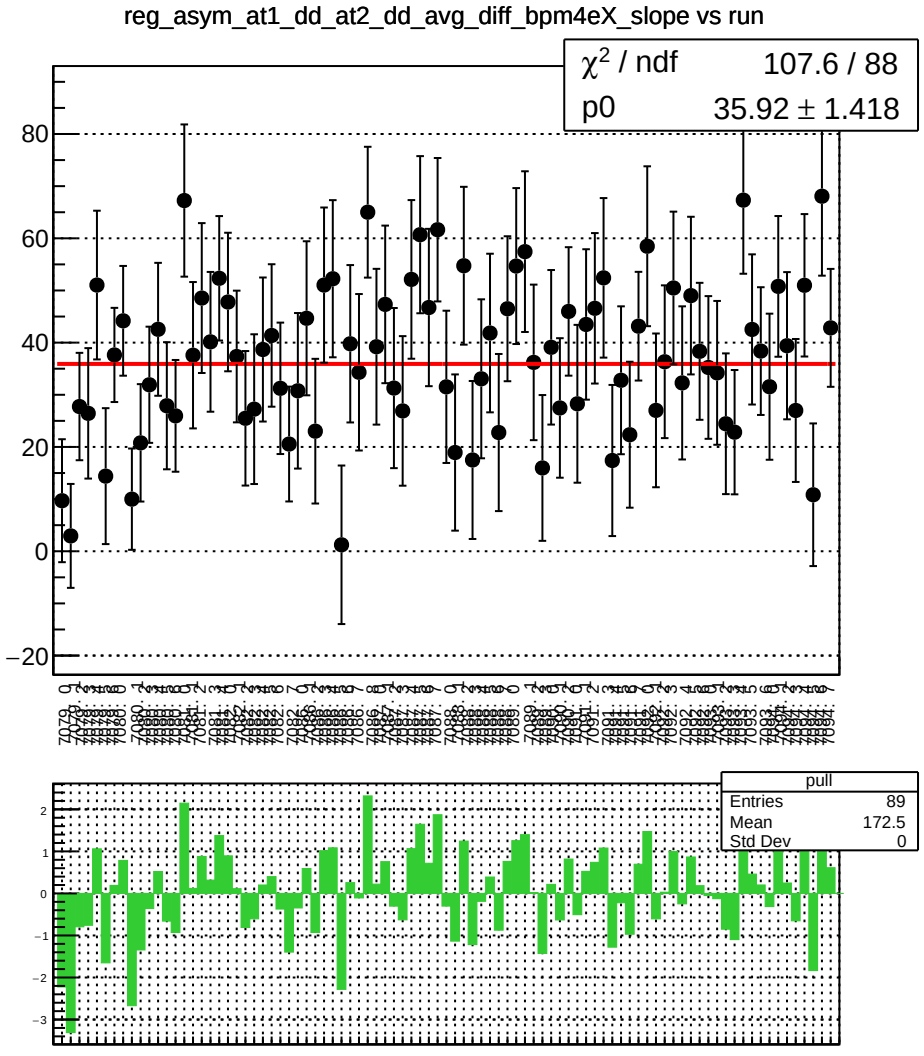

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 62.59 / 88
p0 2.978 ± 1.035
pull
Entries 89
Mean 334.4
Std Dev 0
pull1D
Entries 89
Mean −0.0239
Std Dev 0.8383

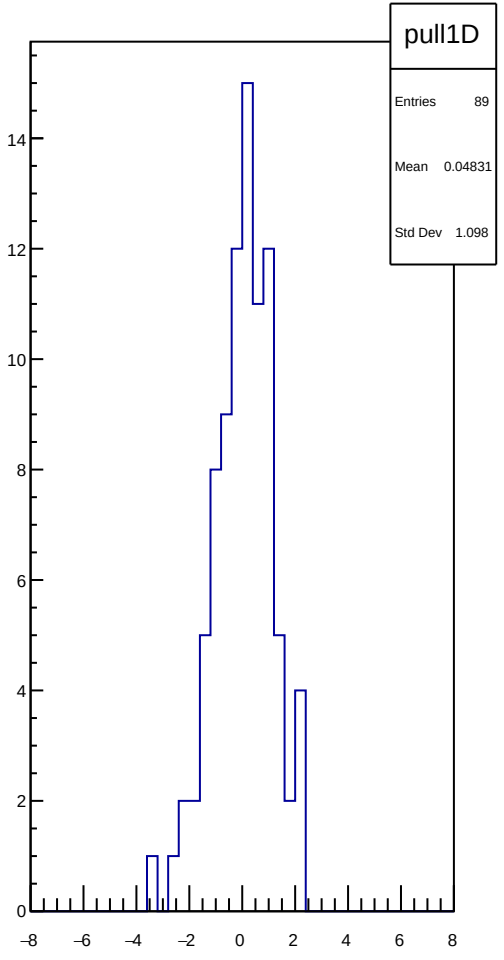

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 409.7 / 88
p0 −7.736 ± 0.04809
pull
Entries 89
Mean 3486
Std Dev 0
pull1D
Entries 89
Mean 0.01183
Std Dev 2.146

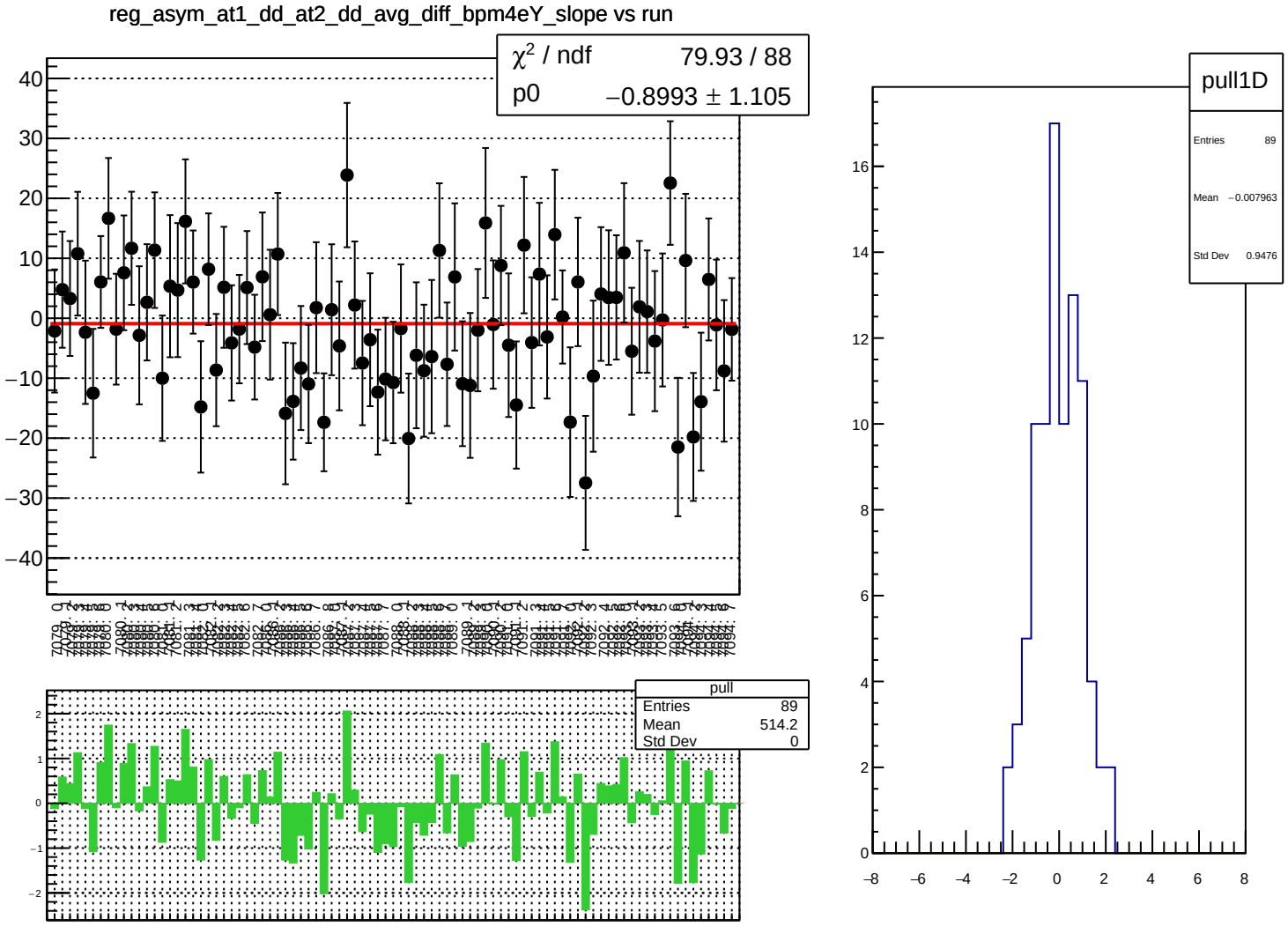

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 107 / 88
p0 31.45 ± 1.472
pull
Entries 89
Mean 175.7
Std Dev 0

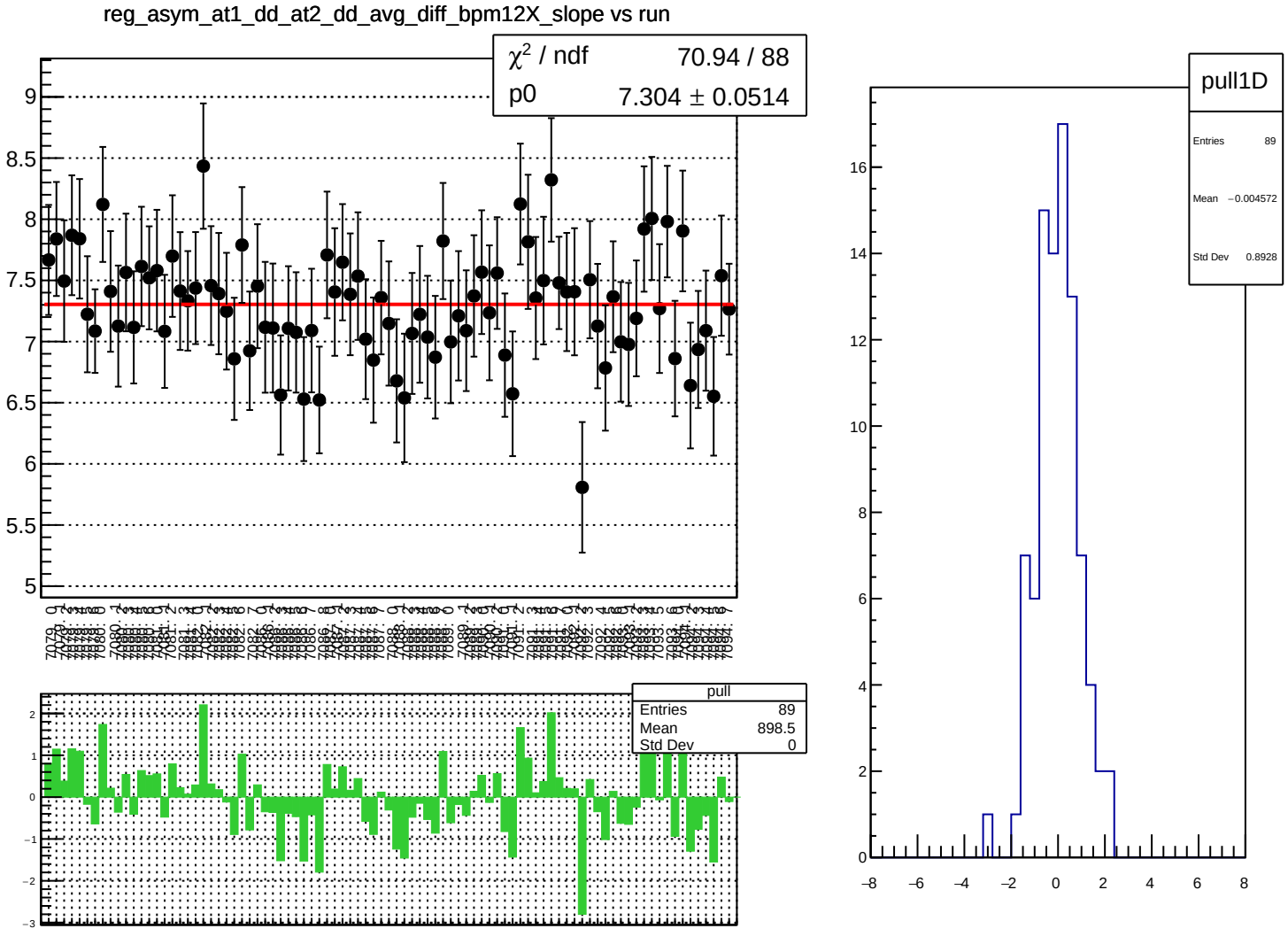

pull1D
Entries 89
Mean −0.04516
Std Dev 1.095

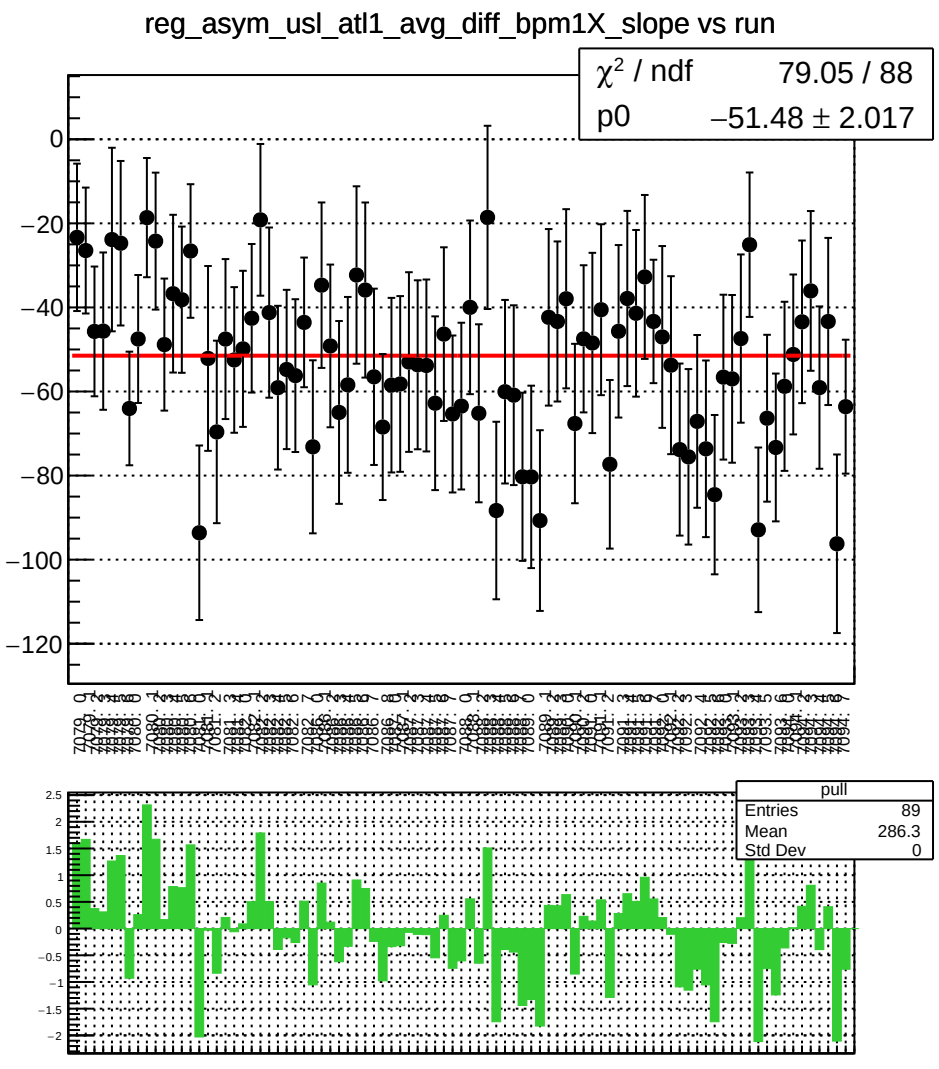

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 74 / 88
p0 −2.58 ± 1.053
pull
Entries 89
Mean 609.6
Std Dev 0
pull1D
Entries 89
Mean 0.003799
Std Dev 0.9118

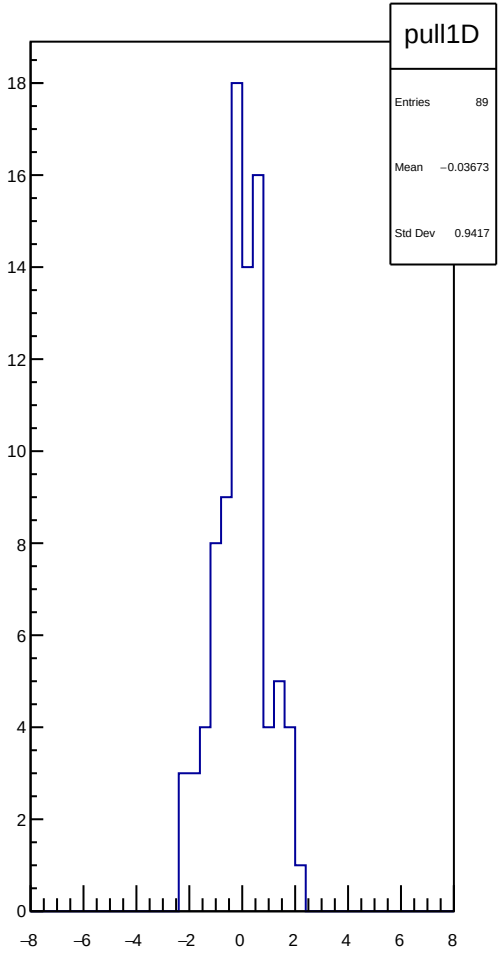

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 107.6 / 88
p0 35.92 ± 1.418
pull
Entries 89
Mean 172.5
Std Dev 0

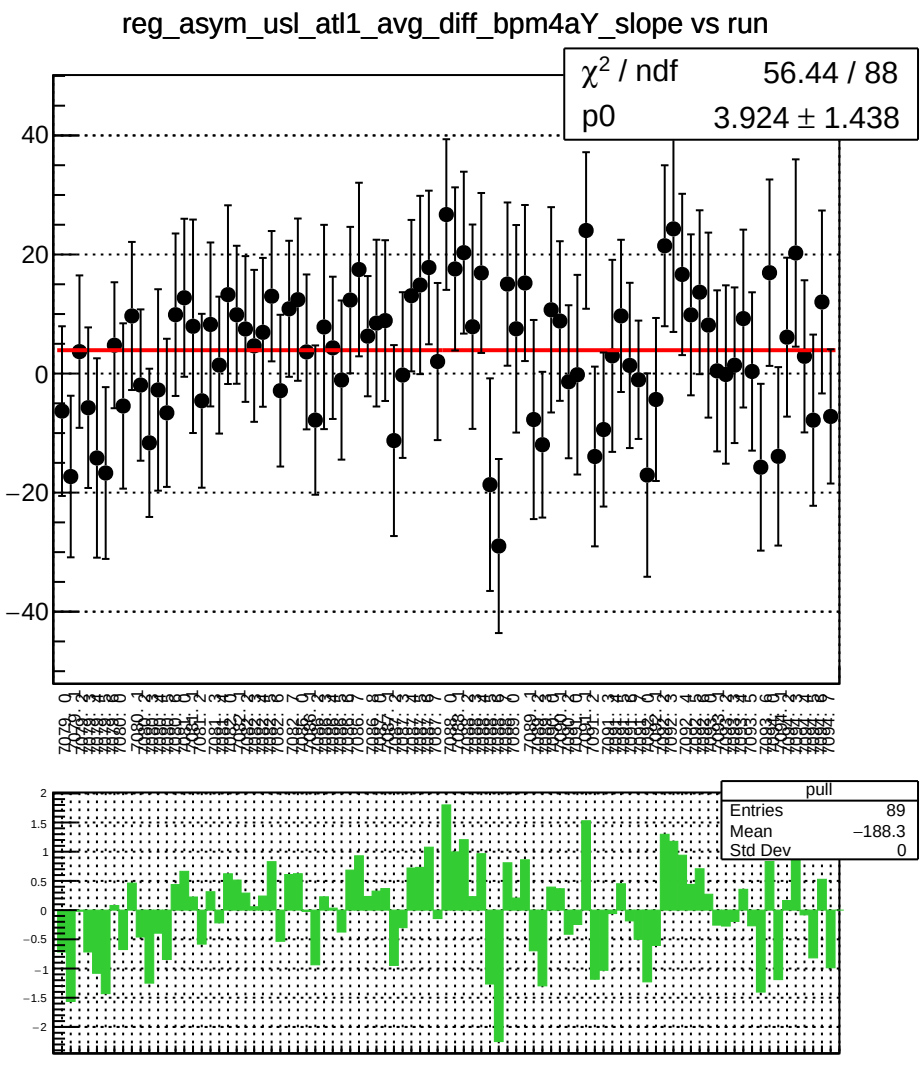

pull1D
Entries 89
Mean 0.04831
Std Dev 1.098

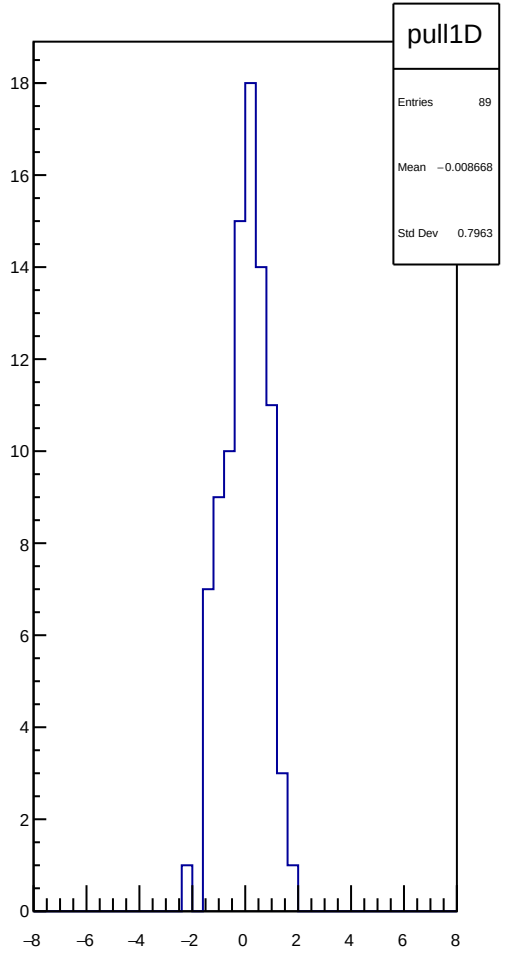

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.93 / 88
p0 −0.8993 ± 1.105
pull
Entries 89
Mean 514.2
Std Dev 0
pull1D
Entries 89
Mean −0.007963
Std Dev 0.9476

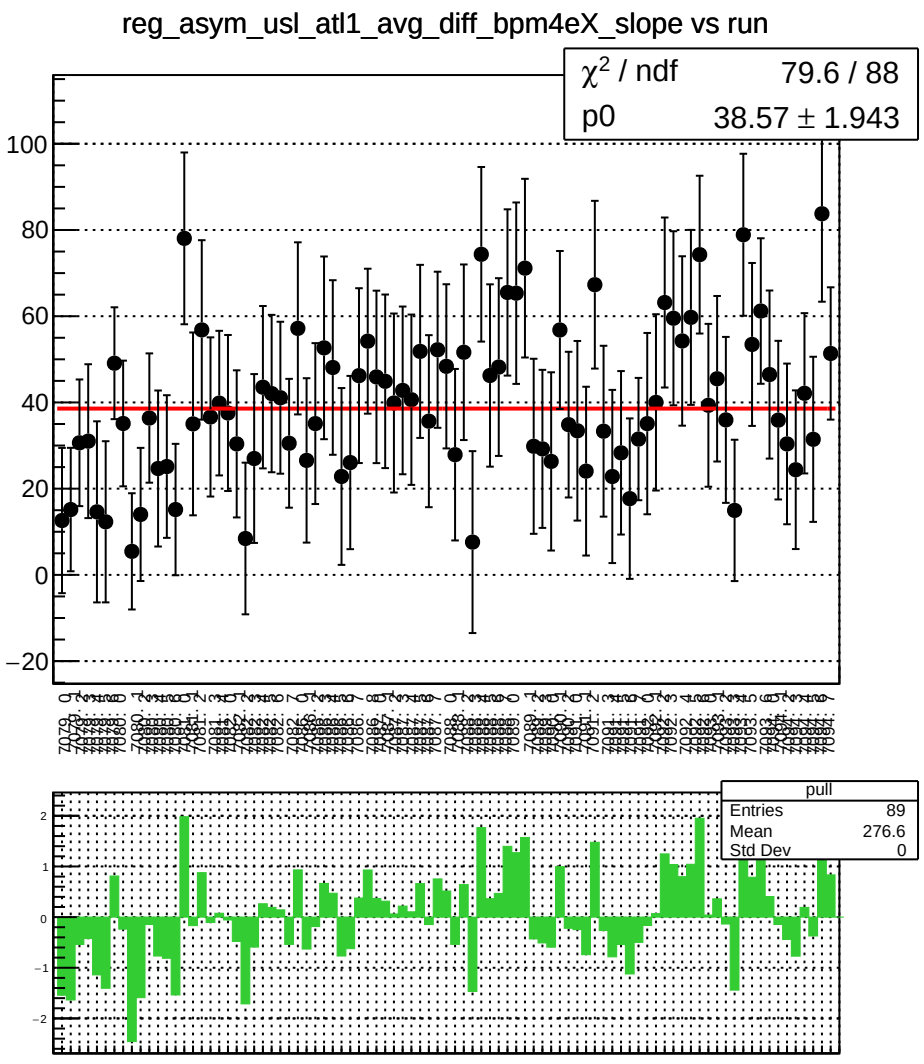

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 70.94 / 88
p0 7.304 ± 0.0514
pull
Entries 89
Mean 898.5
Std Dev 0
pull1D
Entries 89
Mean −0.004572
Std Dev 0.8928

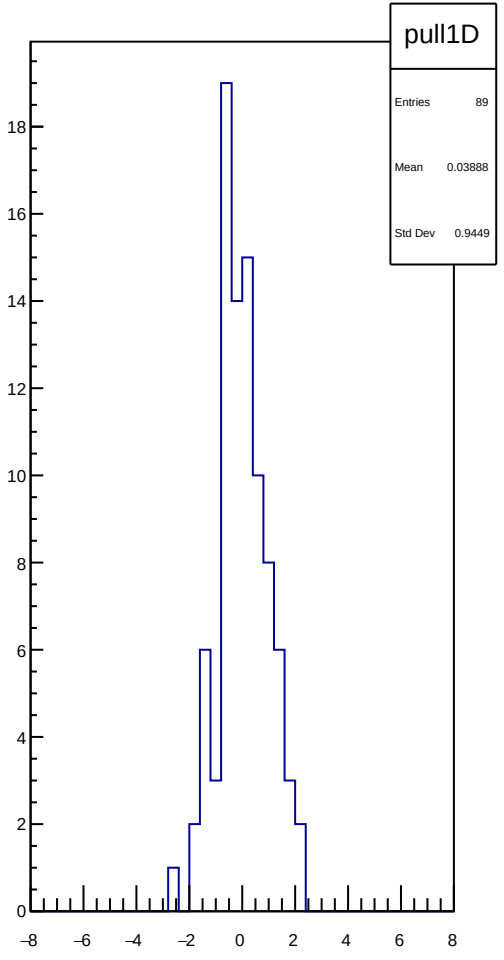

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 79.05 / 88
p0 −51.48 ± 2.017
pull
Entries 89
Mean 286.3
Std Dev 0

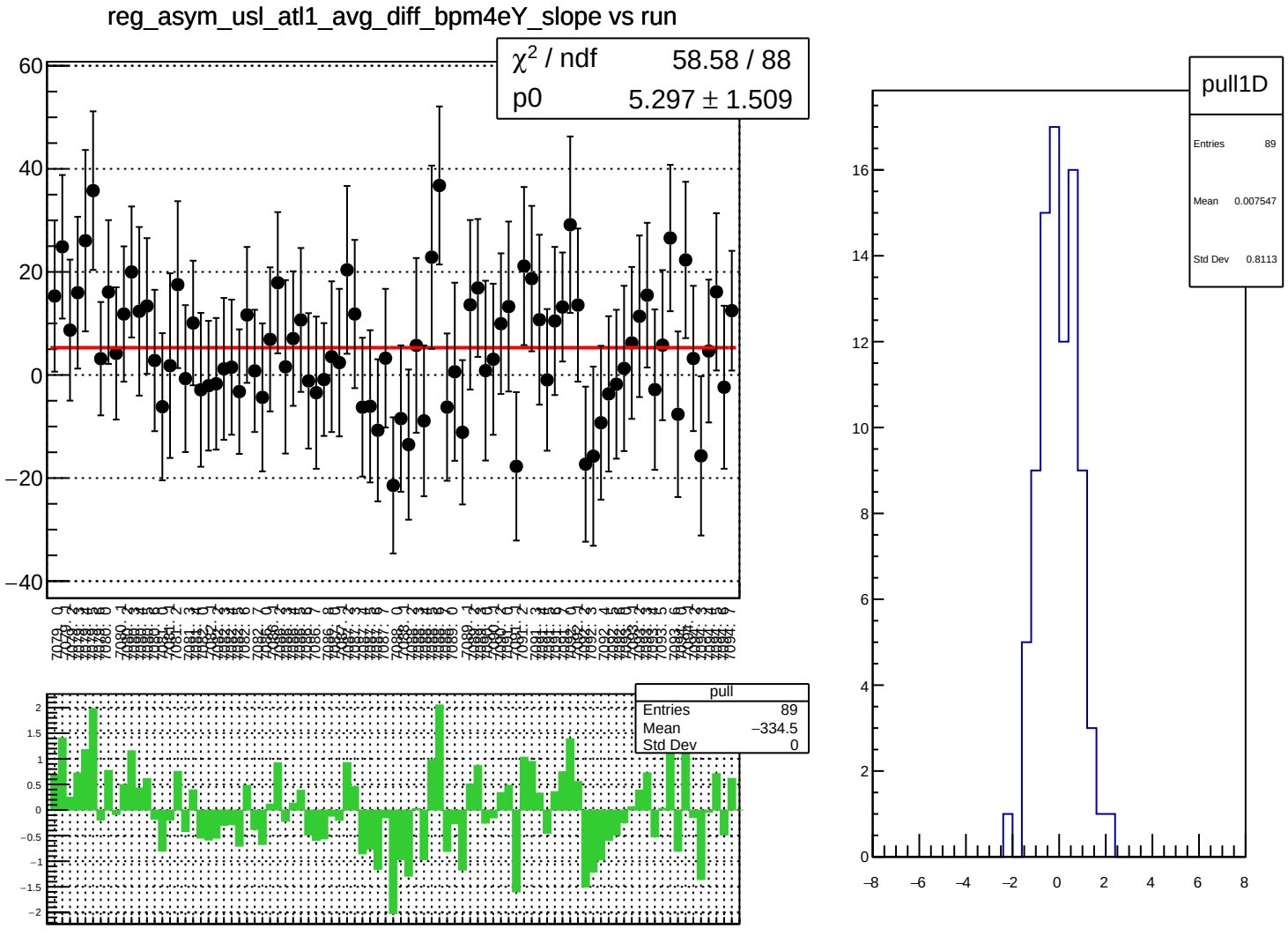

pull1D
Entries 89
Mean −0.03673
Std Dev 0.9417

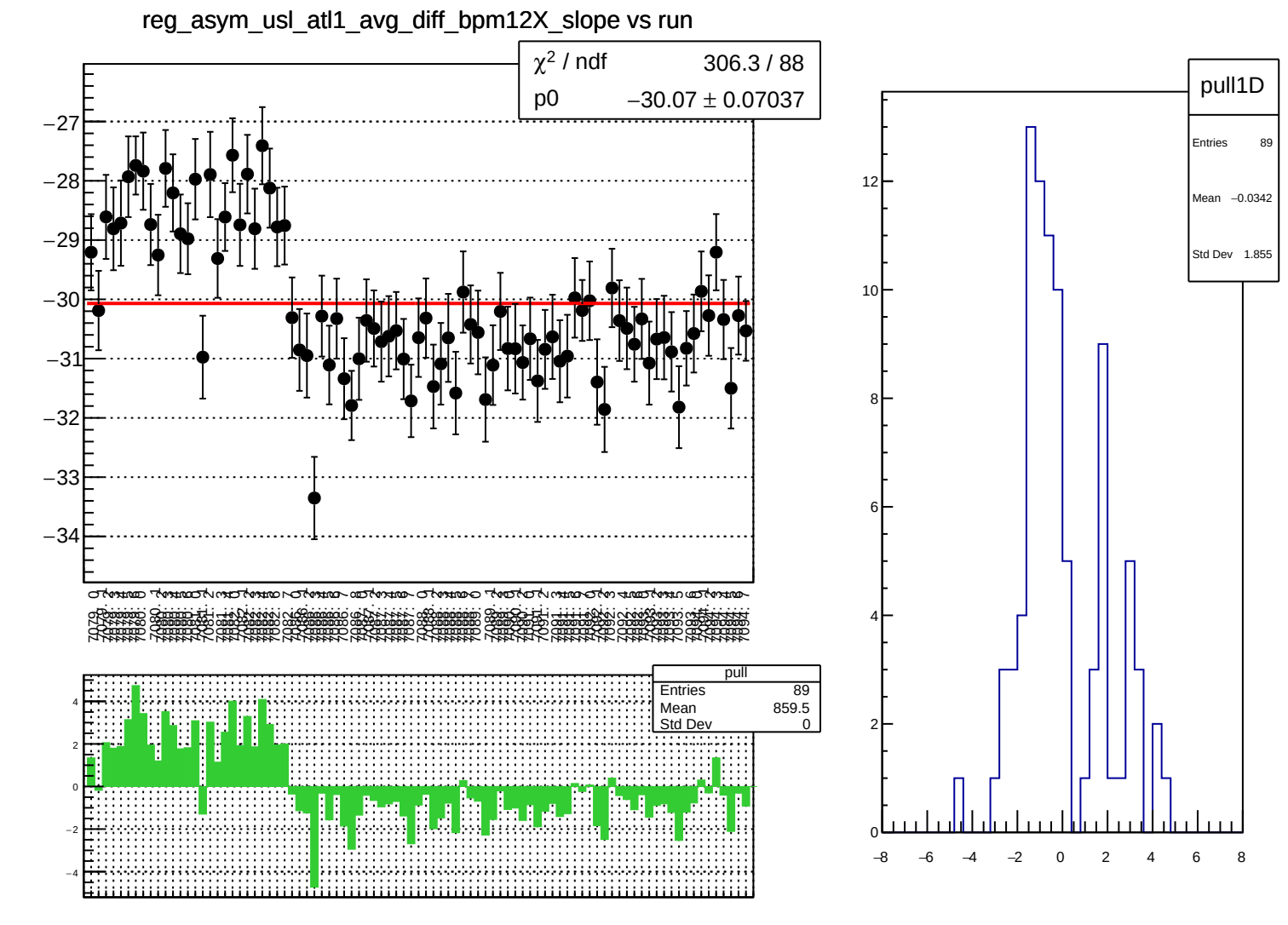

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.44 / 88
p0 3.924 ± 1.438
40
20
0
−20
−40
pull
Entries 89
Mean −188.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

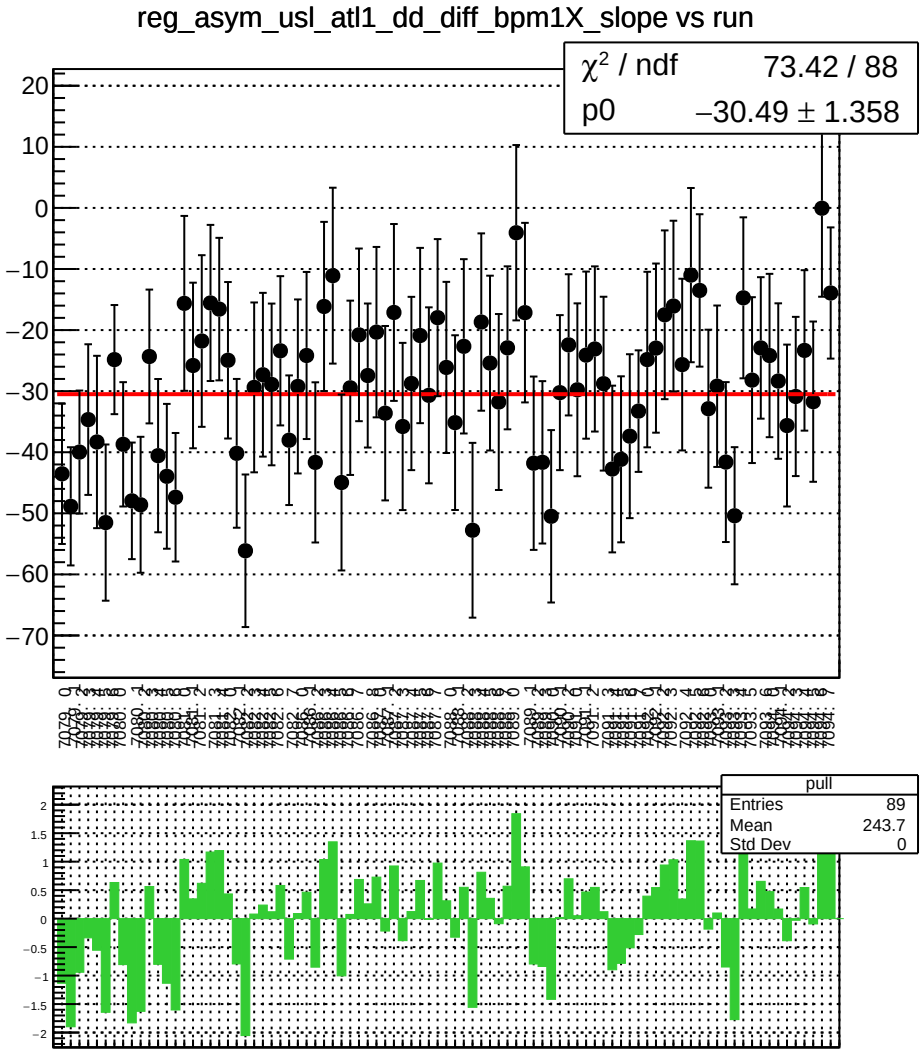

pull1D
Entries 89
Mean −0.008668
Std Dev 0.7963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

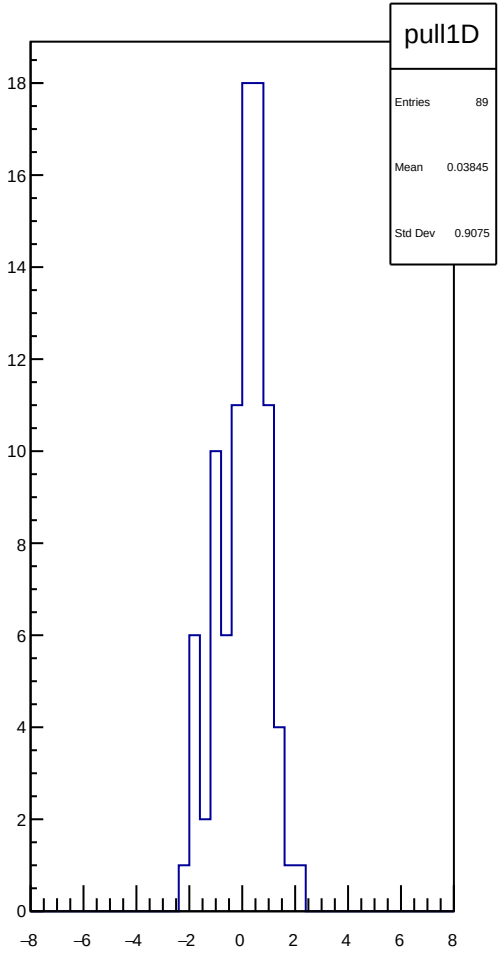

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.6 / 88
p0 38.57 ± 1.943
pull
Entries 89
Mean 276.6
Std Dev 0

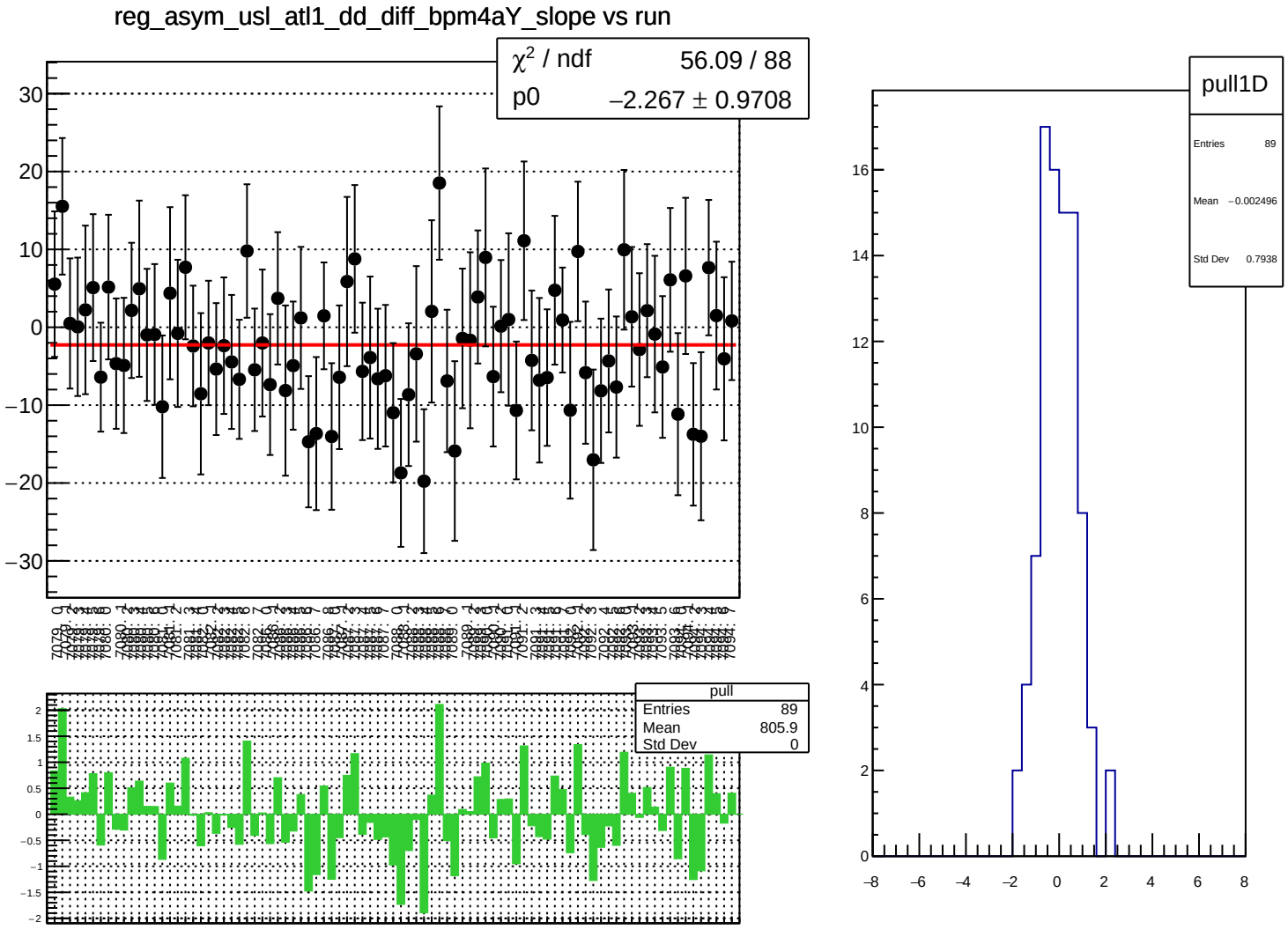

pull1D
Entries 89
Mean 0.03888
Std Dev 0.9449

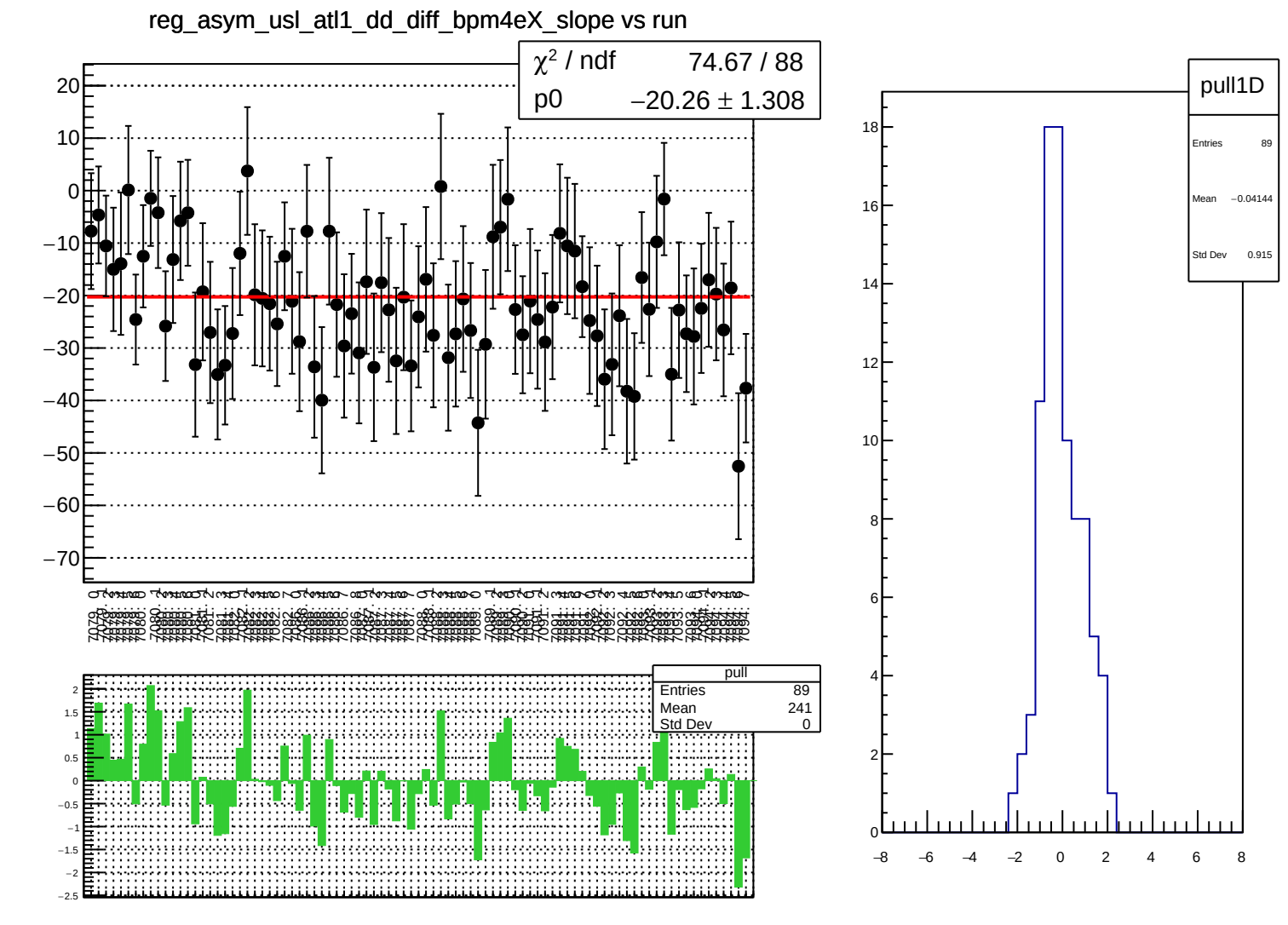

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.58 / 88
p0 5.297 ± 1.509
pull
Entries 89
Mean −334.5
Std Dev 0
pull1D
Entries 89
Mean 0.007547
Std Dev 0.8113

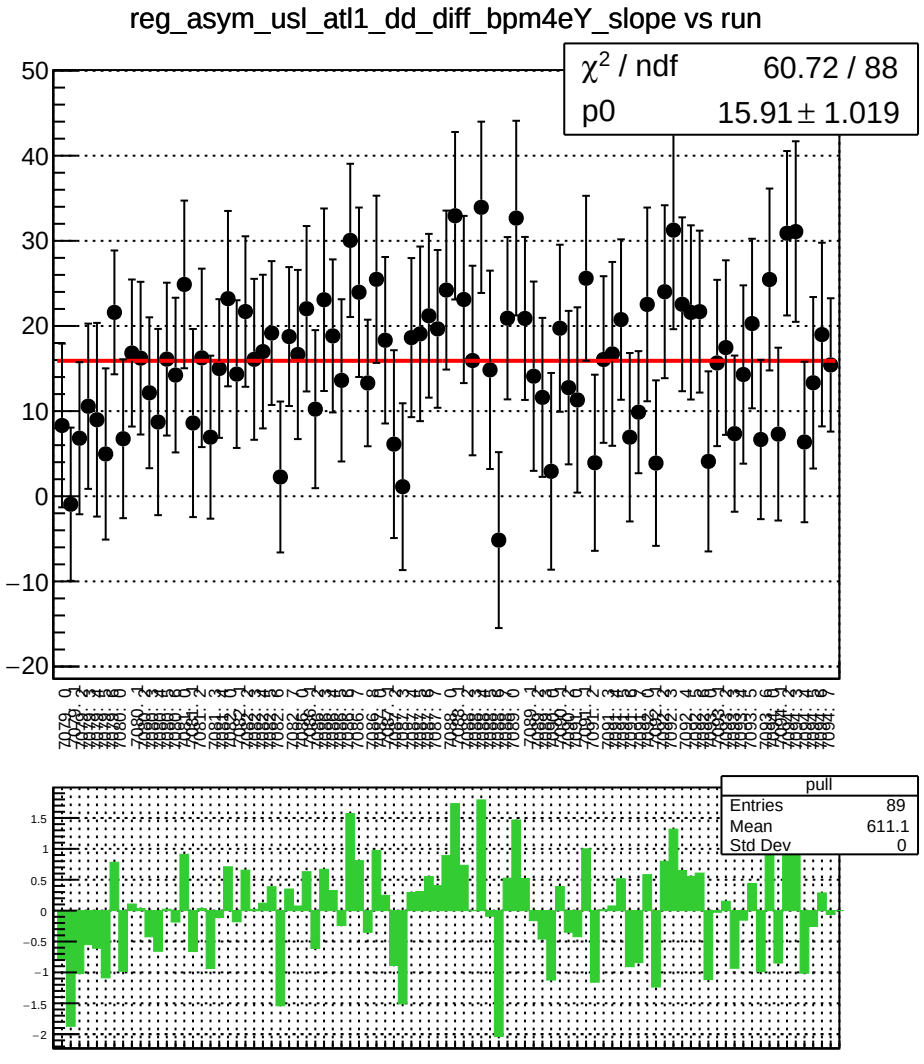

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 306.3 / 88
p0 −30.07 ± 0.07037
pull
Entries 89
Mean 859.5
Std Dev 0
pull1D
Entries 89
Mean −0.0342
Std Dev 1.855

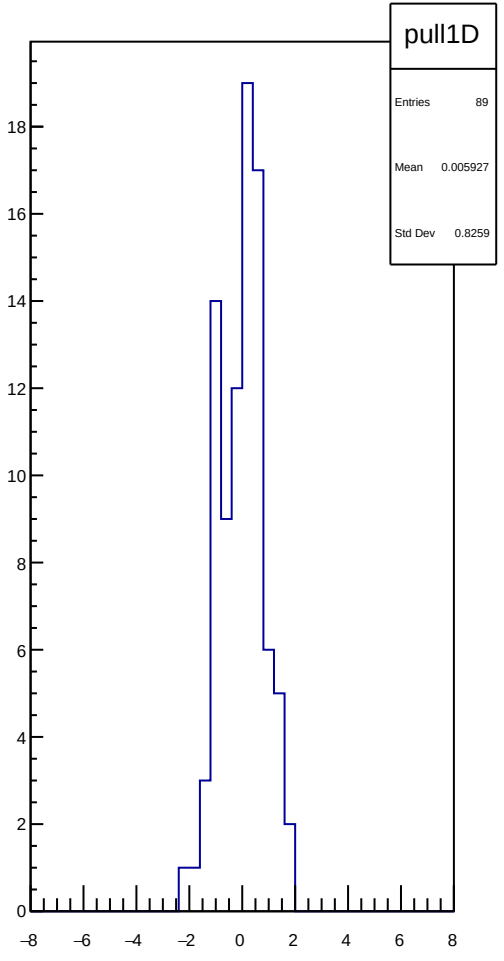

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 73.42 / 88
p0 −30.49 ± 1.358
pull
Entries 89
Mean 243.7
Std Dev 0

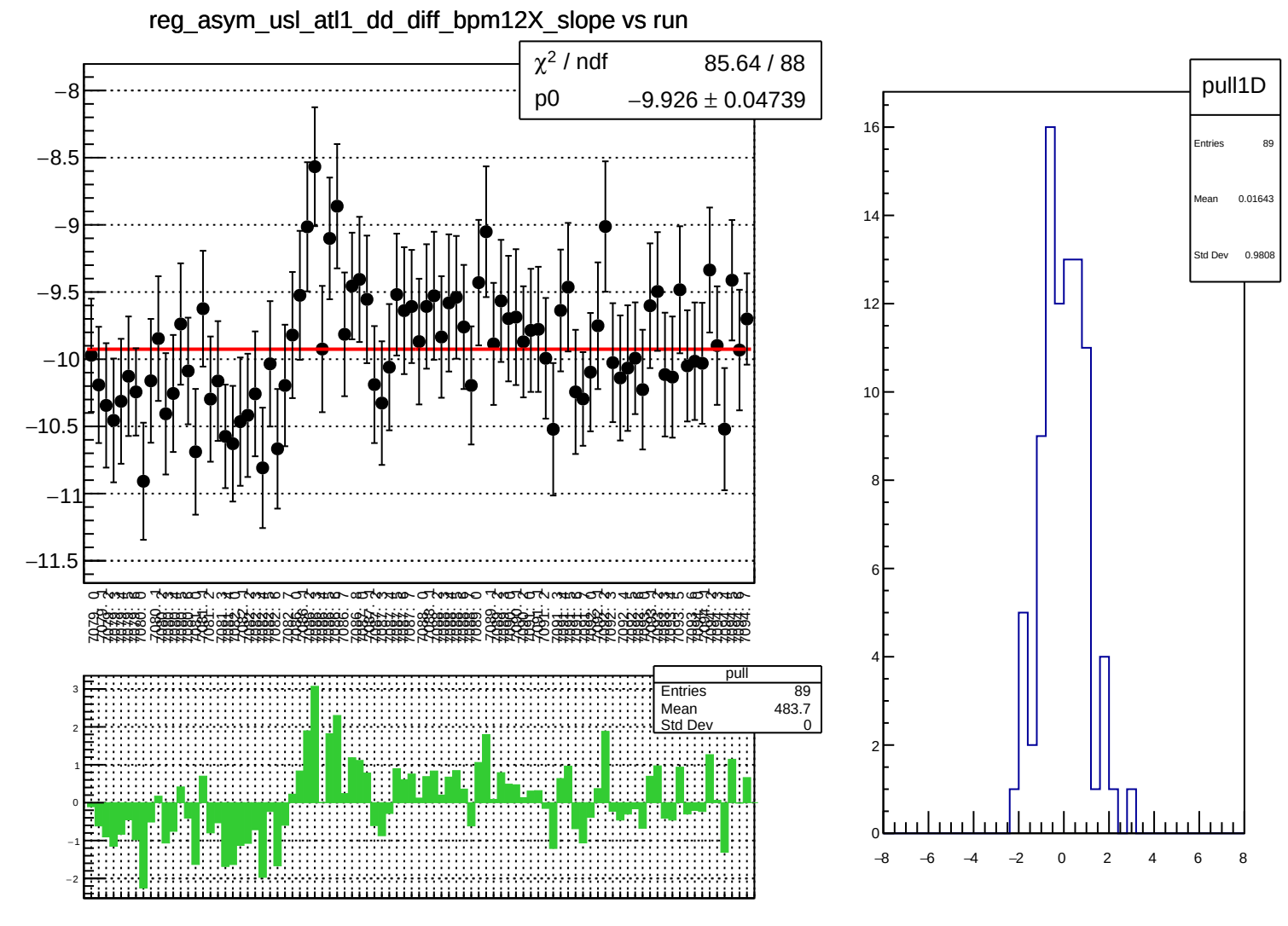

pull1D
Entries 89
Mean 0.03845
Std Dev 0.9075

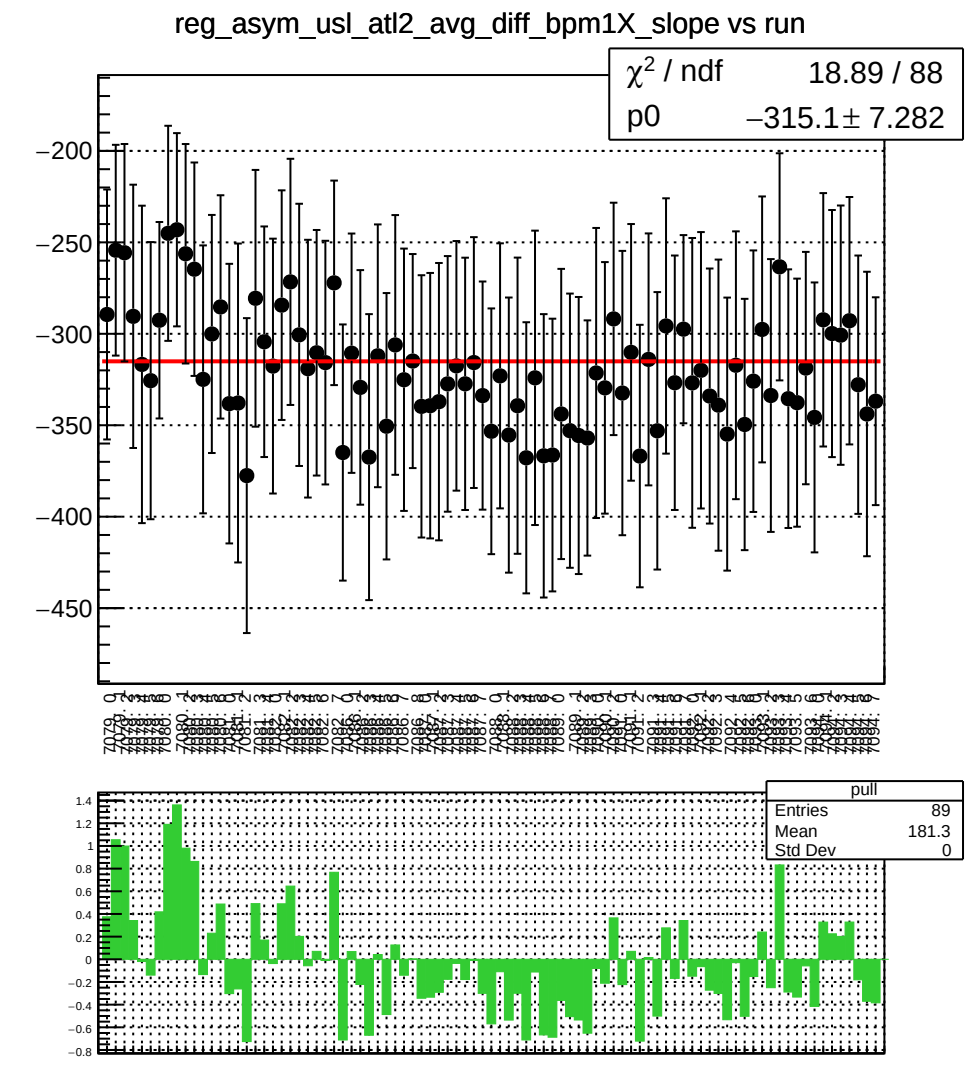

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.09 / 88
p0 −2.267 ± 0.9708
pull
Entries 89
Mean 805.9
Std Dev 0
pull1D
Entries 89
Mean −0.002496
Std Dev 0.7938

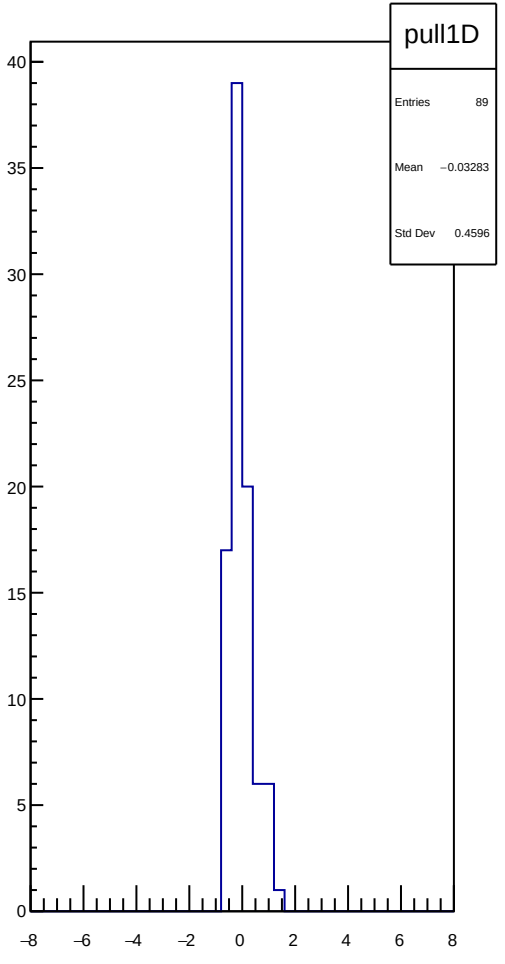

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.67 / 88
p0 −20.26 ± 1.308
pull
Entries 89
Mean 241
Std Dev 0
pull1D
Entries 89
Mean −0.04144
Std Dev 0.915

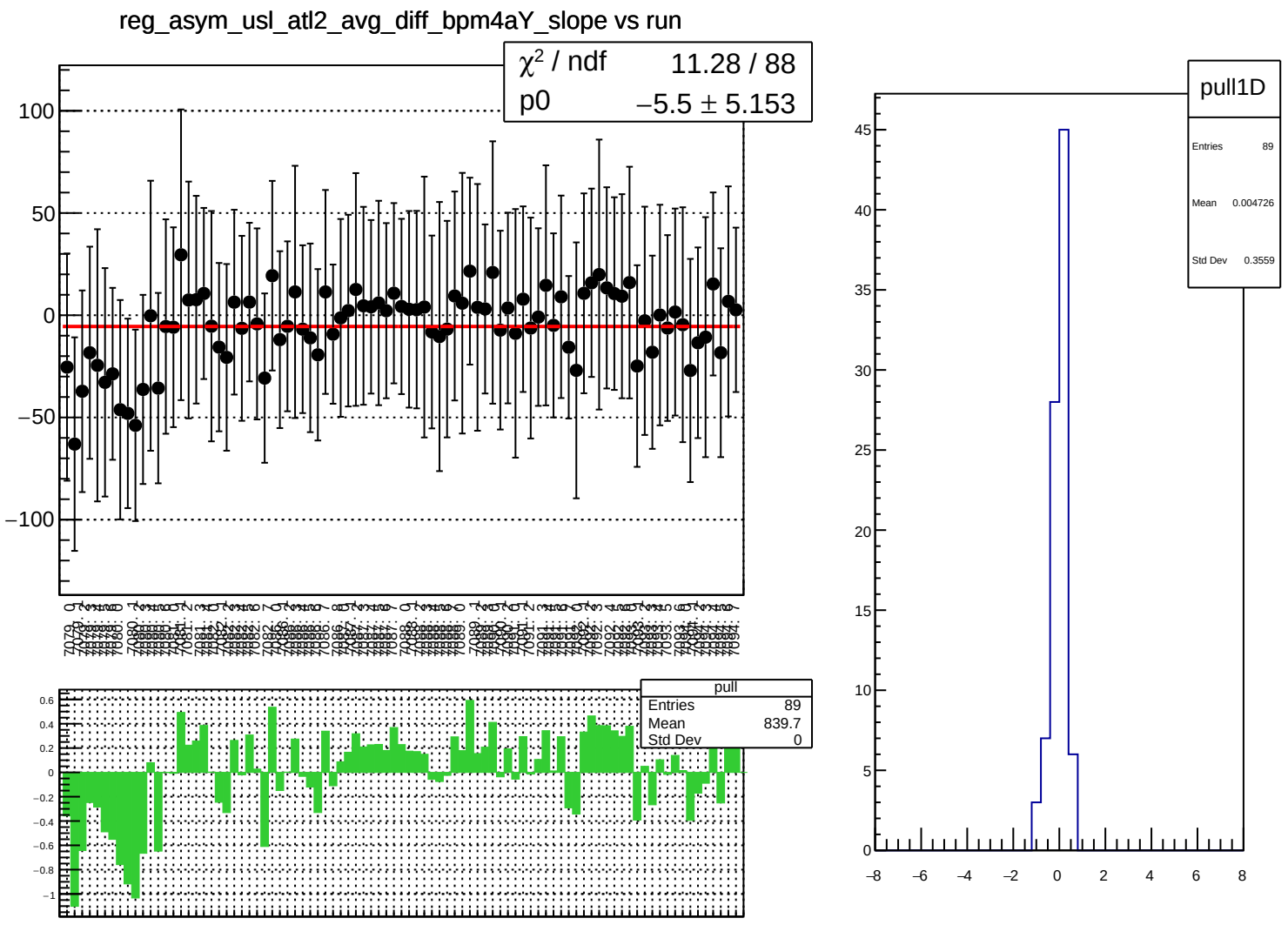

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.72 / 88
p0 15.91 ± 1.019
pull
Entries 89
Mean 611.1
Std Dev 0

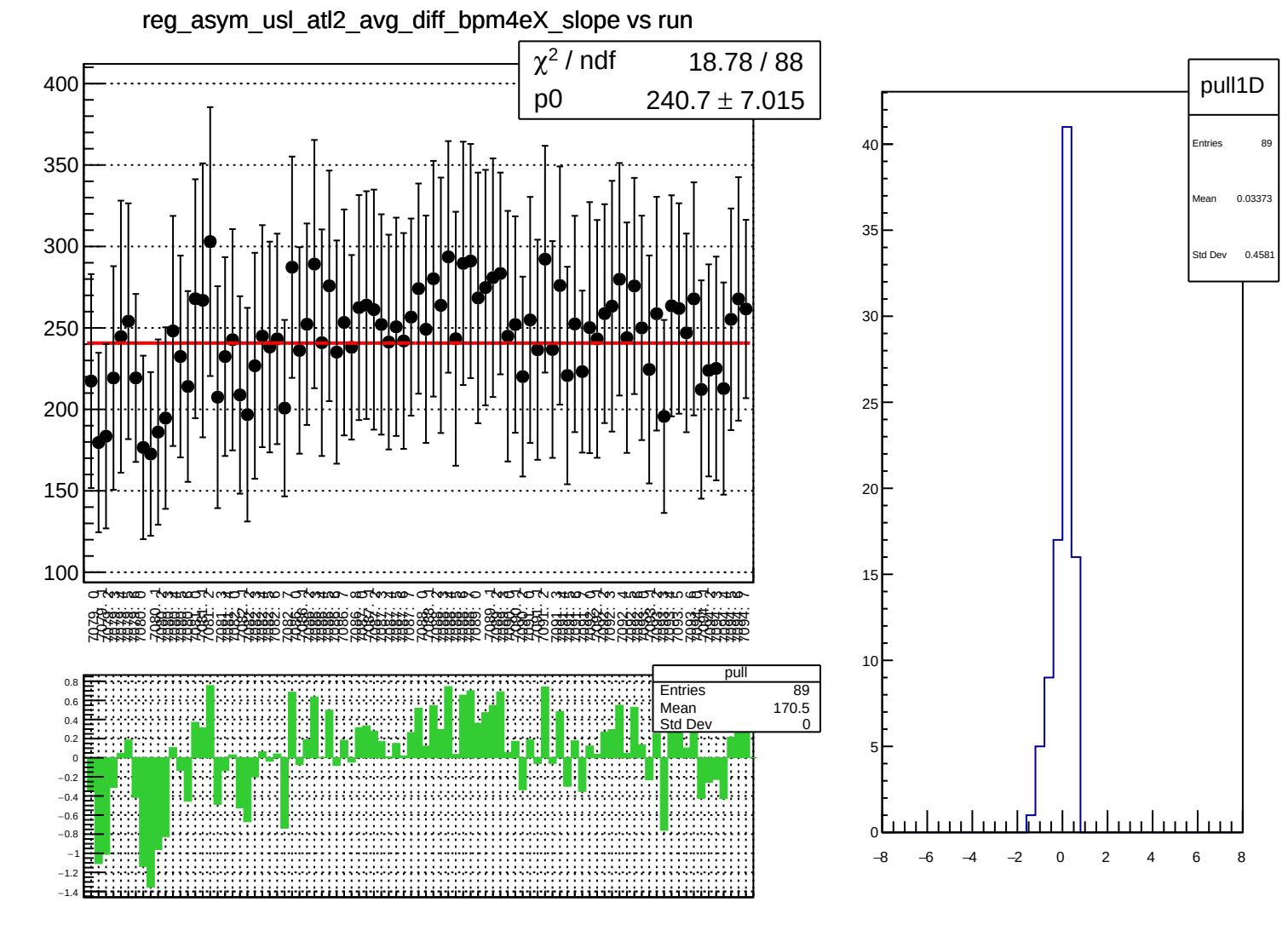

pull1D
Entries 89
Mean 0.005927
Std Dev 0.8259

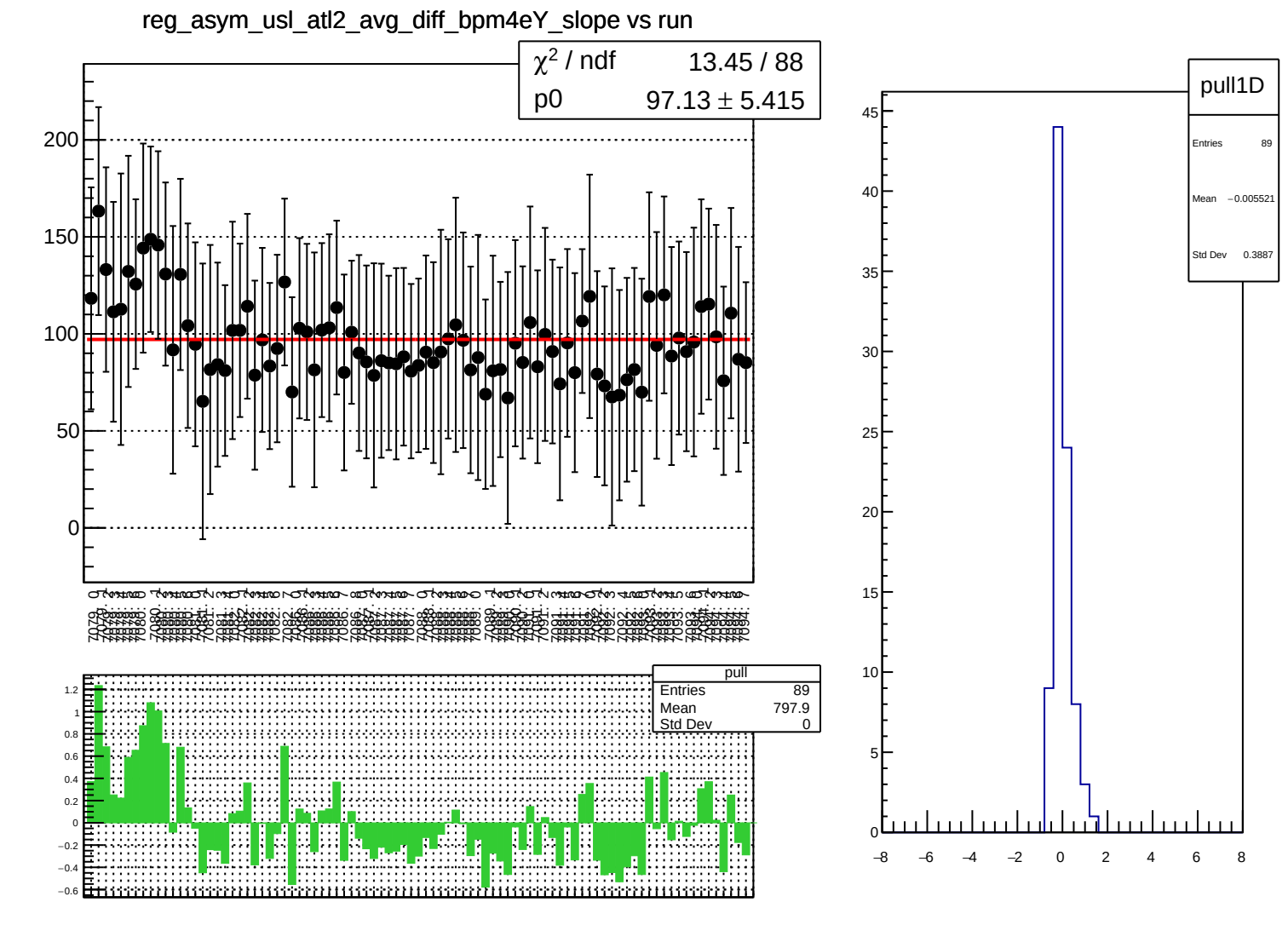

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 85.64 / 88
p0 −9.926 ± 0.04739
pull
Entries 89
Mean 483.7
Std Dev 0
pull1D
Entries 89
Mean 0.01643
Std Dev 0.9808

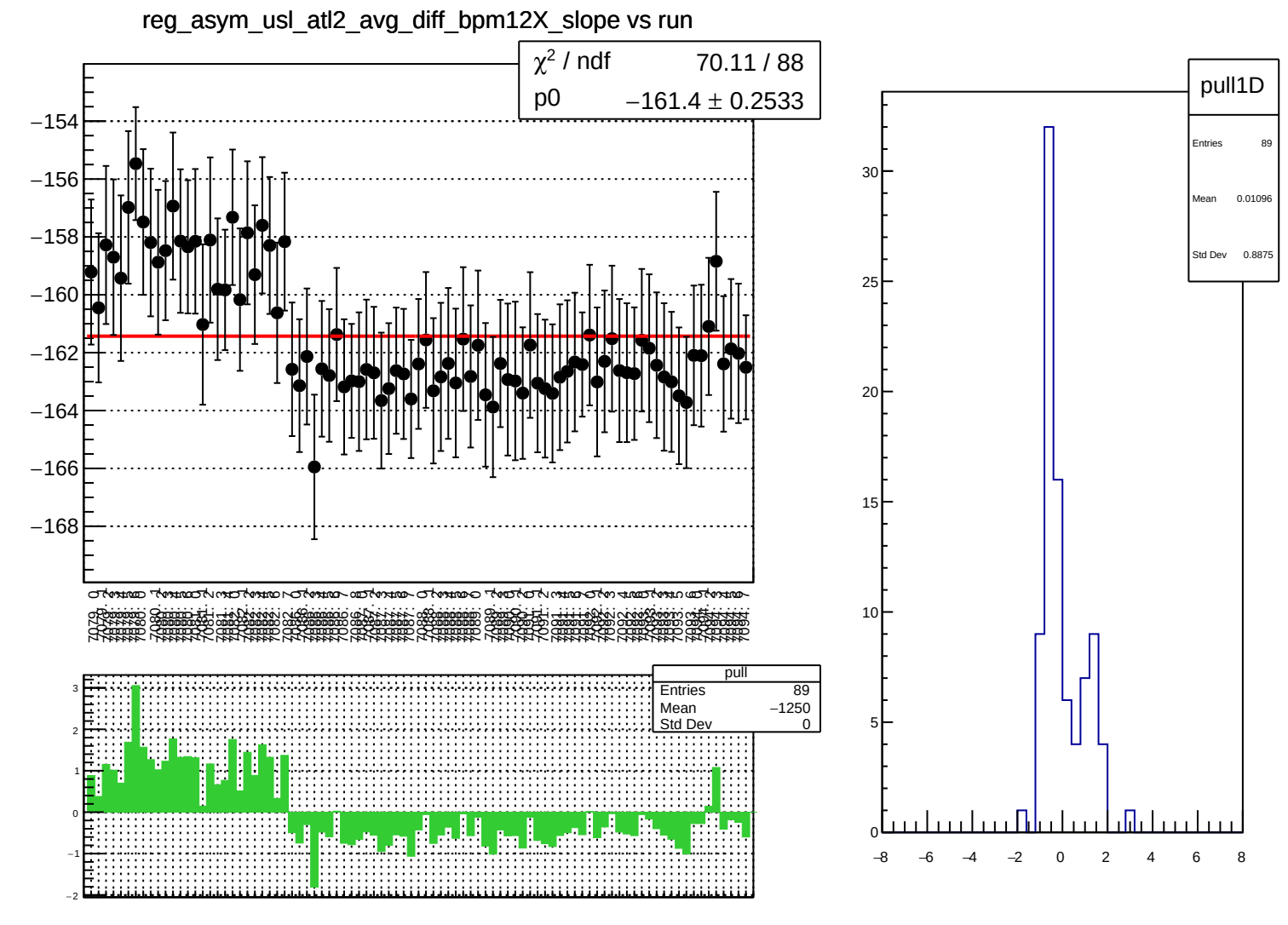

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 18.89 / 88
p0 −315.1± 7.282
pull
Entries 89
Mean 181.3
Std Dev 0

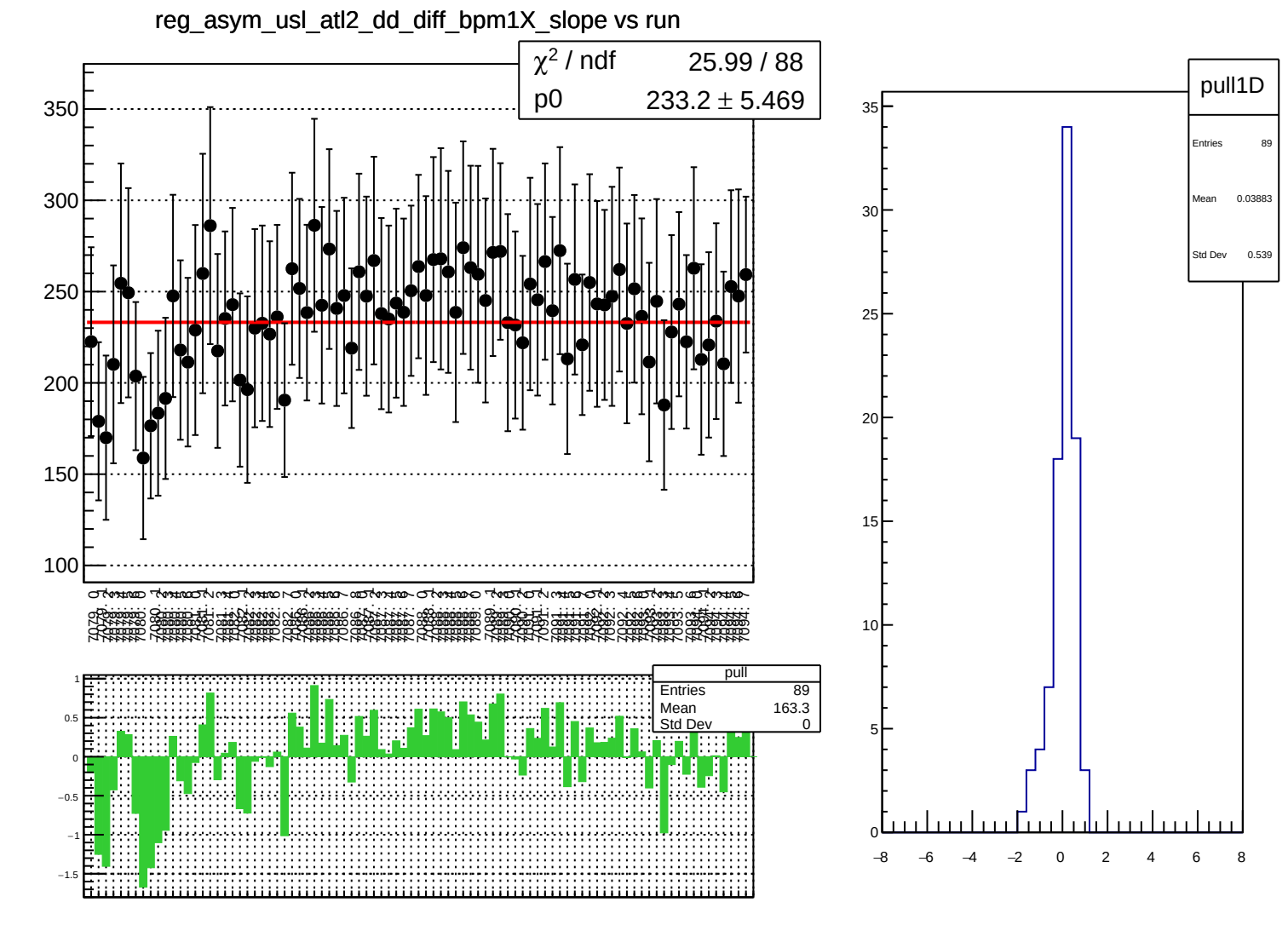

pull1D
Entries 89
Mean −0.03283
Std Dev 0.4596

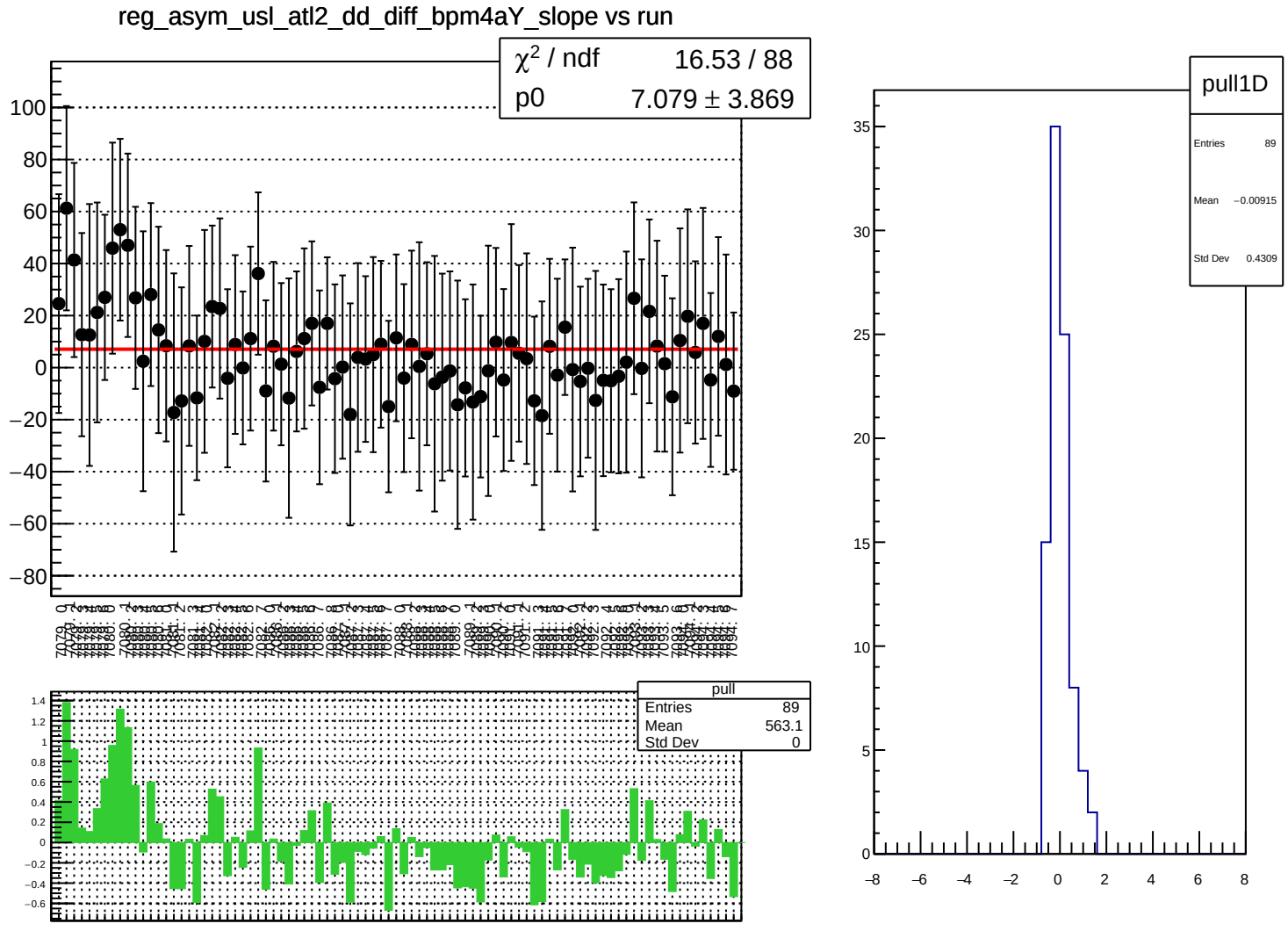

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.28 / 88
p0 −5.5 ± 5.153
100
50
0
−50
−100
pull
Entries 89
Mean 839.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 89
Mean 0.004726
Std Dev 0.3559
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

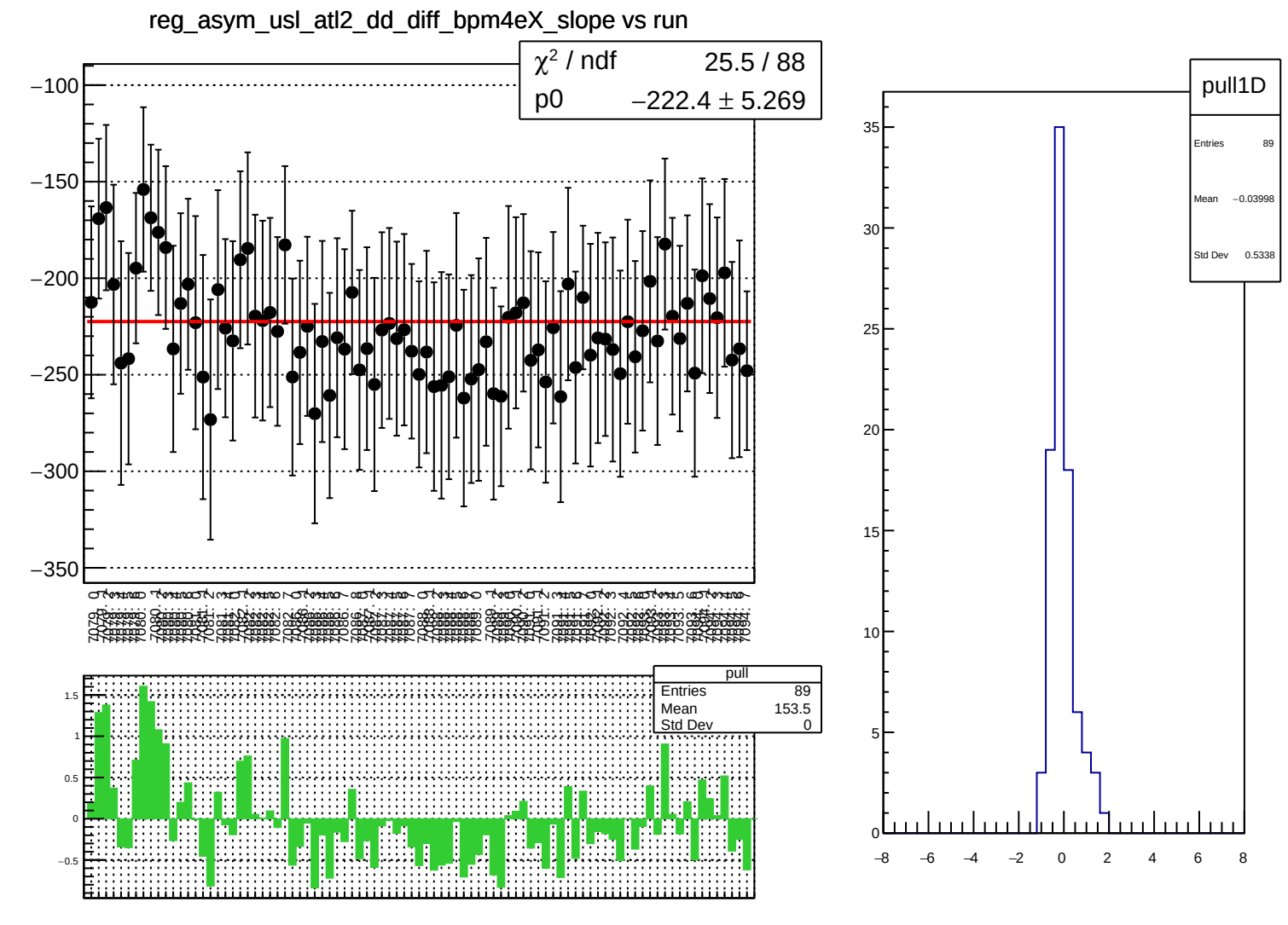

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.78 / 88
p0 240.7 ± 7.015
pull
Entries 89
Mean 170.5
Std Dev 0
pull1D
Entries 89
Mean 0.03373
Std Dev 0.4581

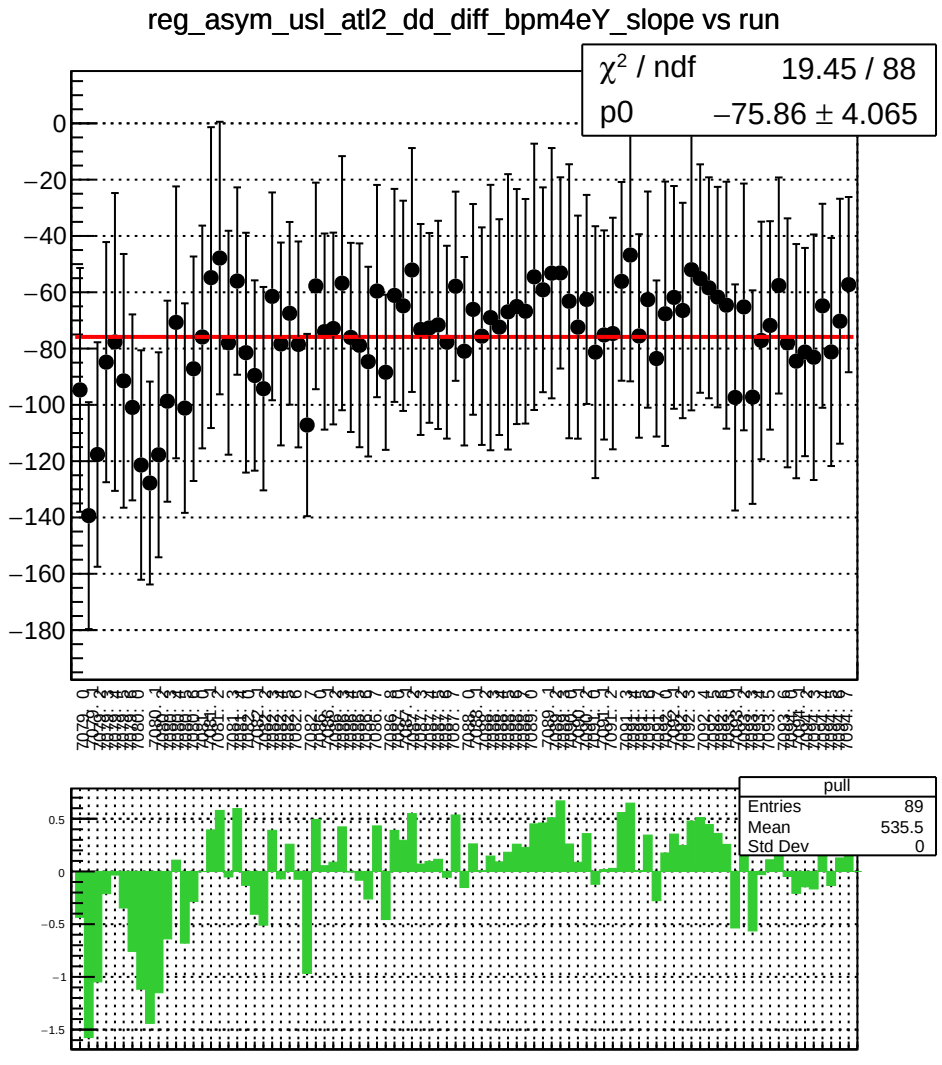

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.45 / 88
p0 97.13 ± 5.415
200
150
100
50
0
pull
Entries 89
Mean 797.9
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.005521
Std Dev 0.3887
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

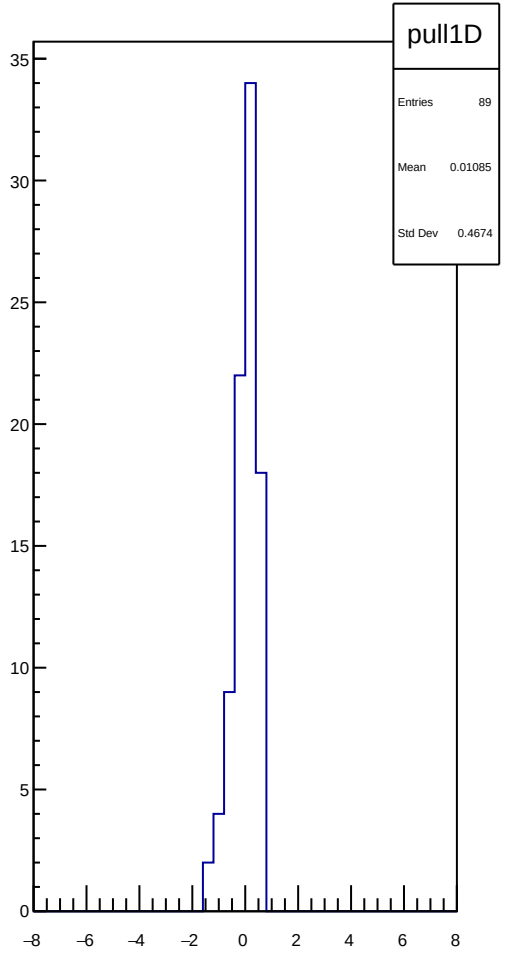

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 70.11 / 88
p0 −161.4 ± 0.2533
−154
−156
−158
−160
−162
−164
−166
−168
pull
Entries 89
Mean −1250
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01096
Std Dev 0.8875
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

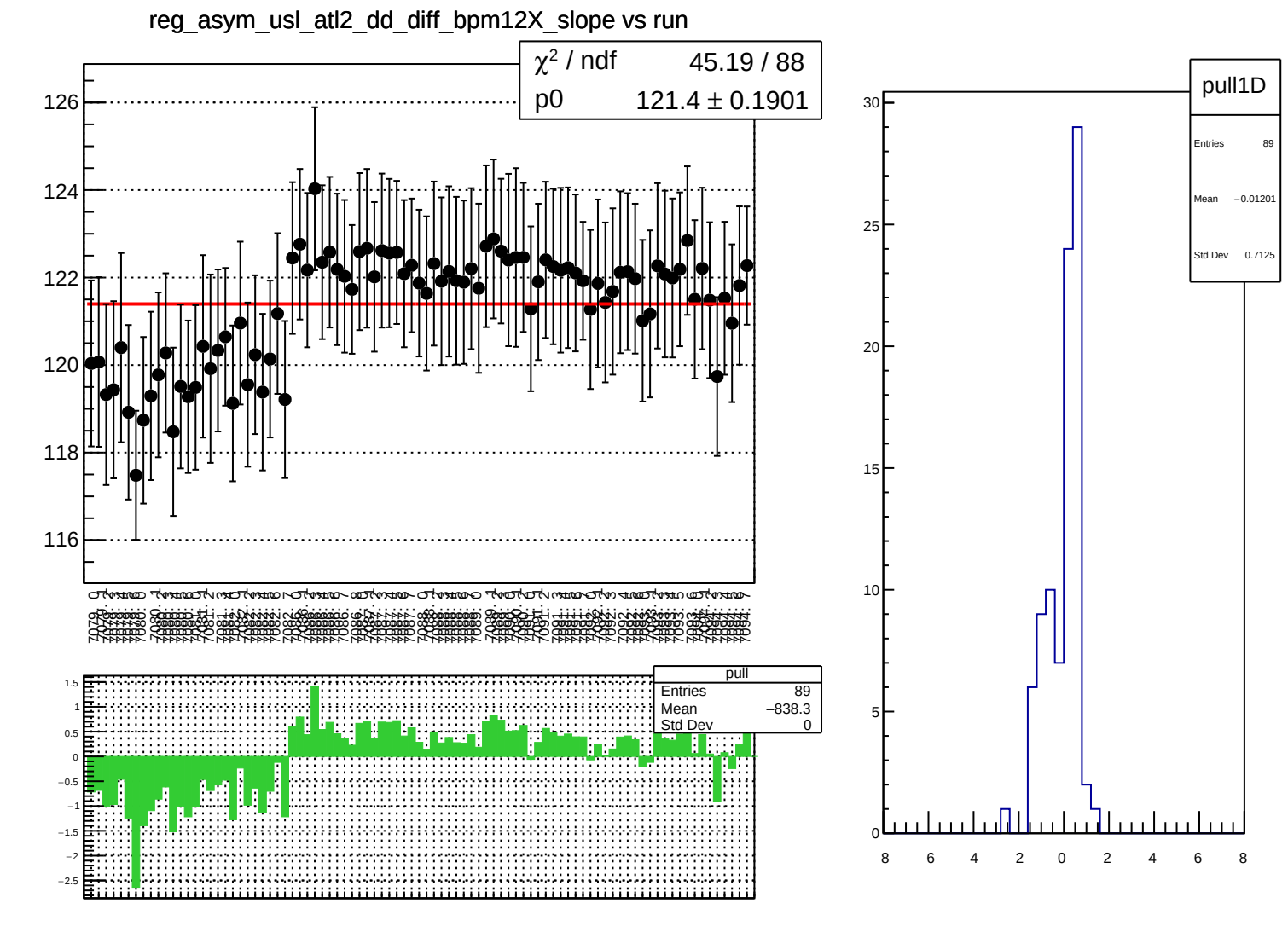

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 25.99 / 88
p0 233.2 ± 5.469
pull
Entries 89
Mean 163.3
Std Dev 0
pull1D
Entries 89
Mean 0.03883
Std Dev 0.539

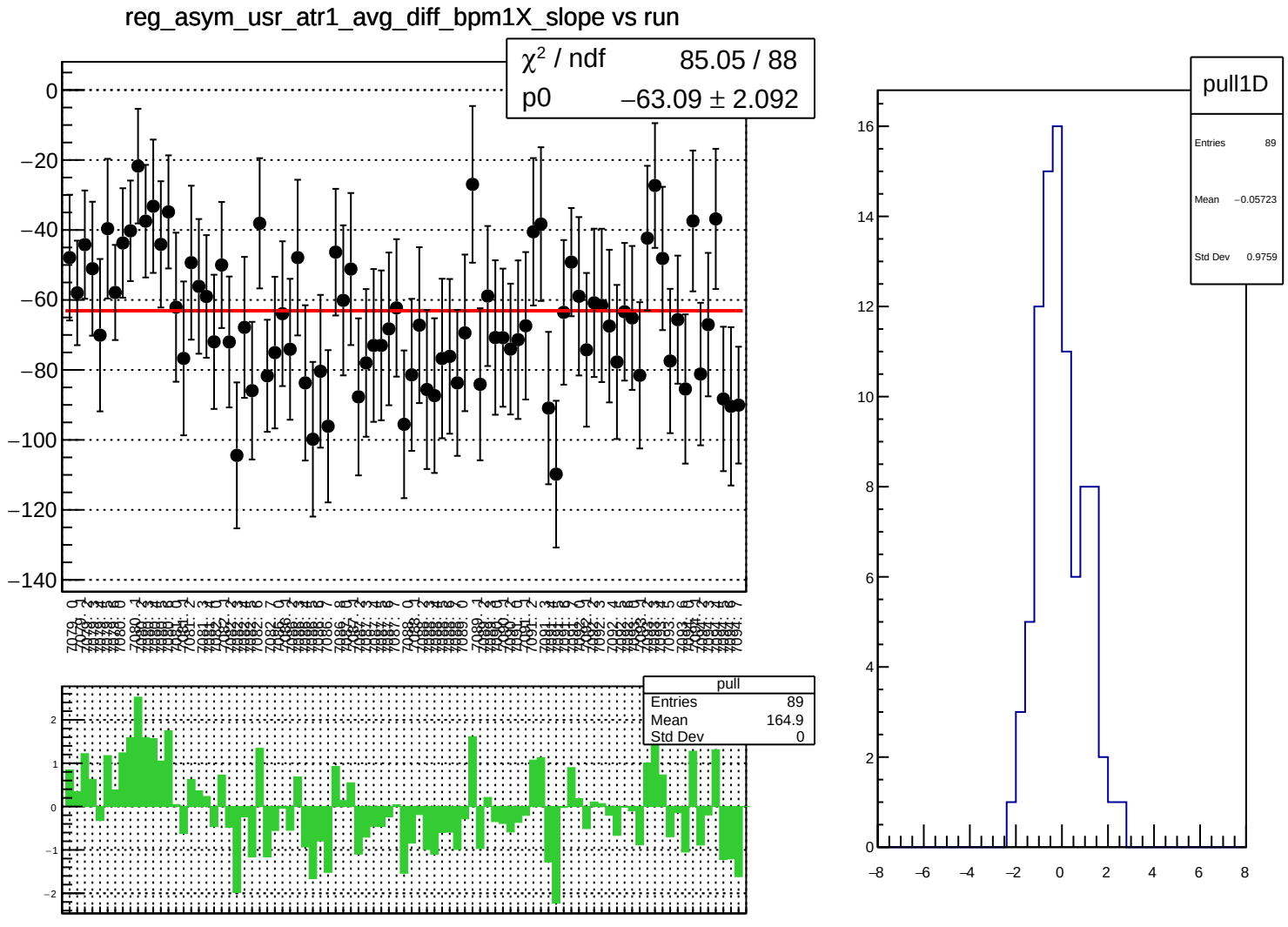

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.53 / 88
p0 7.079 ± 3.869
pull
Entries 89
Mean 563.1
Std Dev 0
pull1D
Entries 89
Mean −0.00915
Std Dev 0.4309

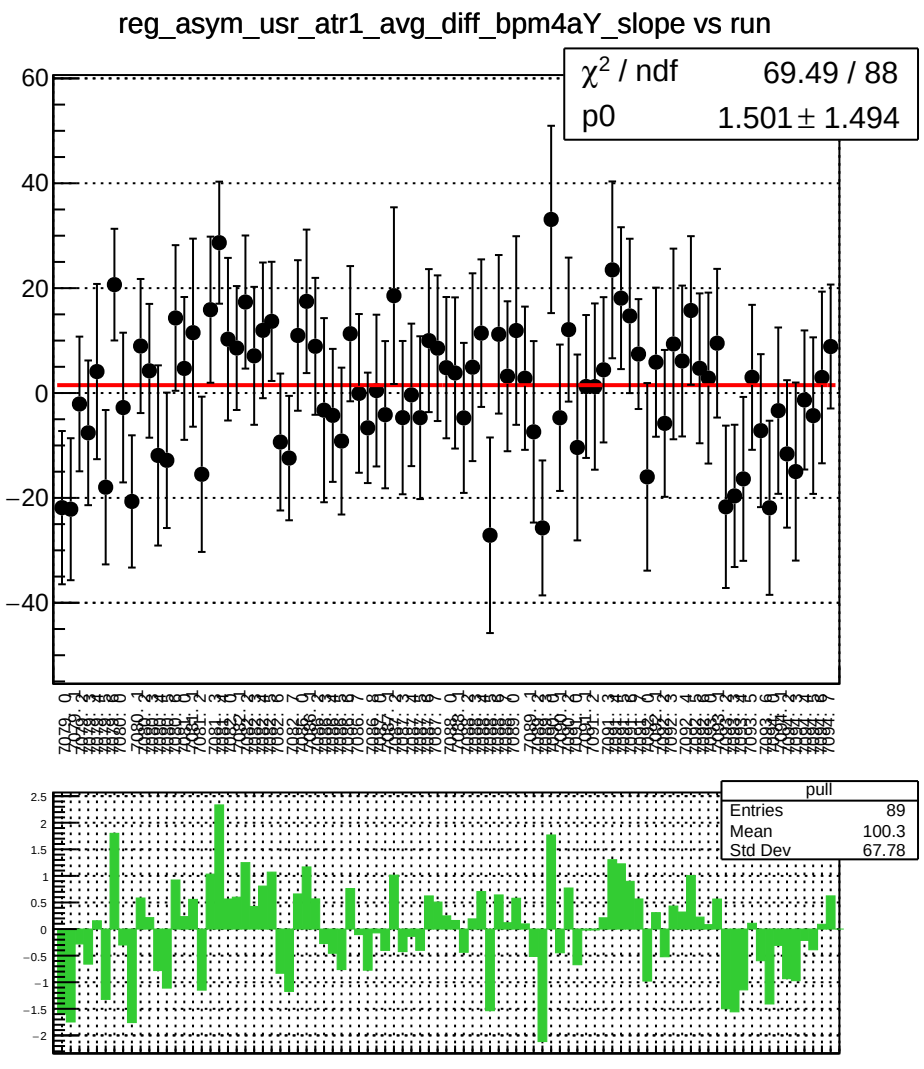

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.5 / 88
p0 −222.4 ± 5.269
−100
−150
−200
−250
−300
−350
pull
Entries 89
Mean 153.5
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean −0.03998
Std Dev 0.5338
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

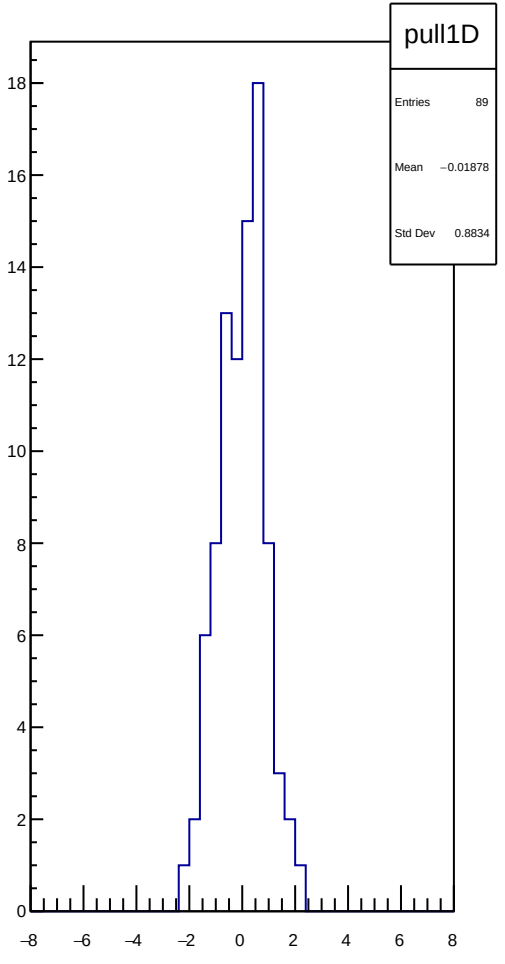

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.45 / 88
p0 −75.86 ± 4.065
pull
Entries 89
Mean 535.5
Std Dev 0

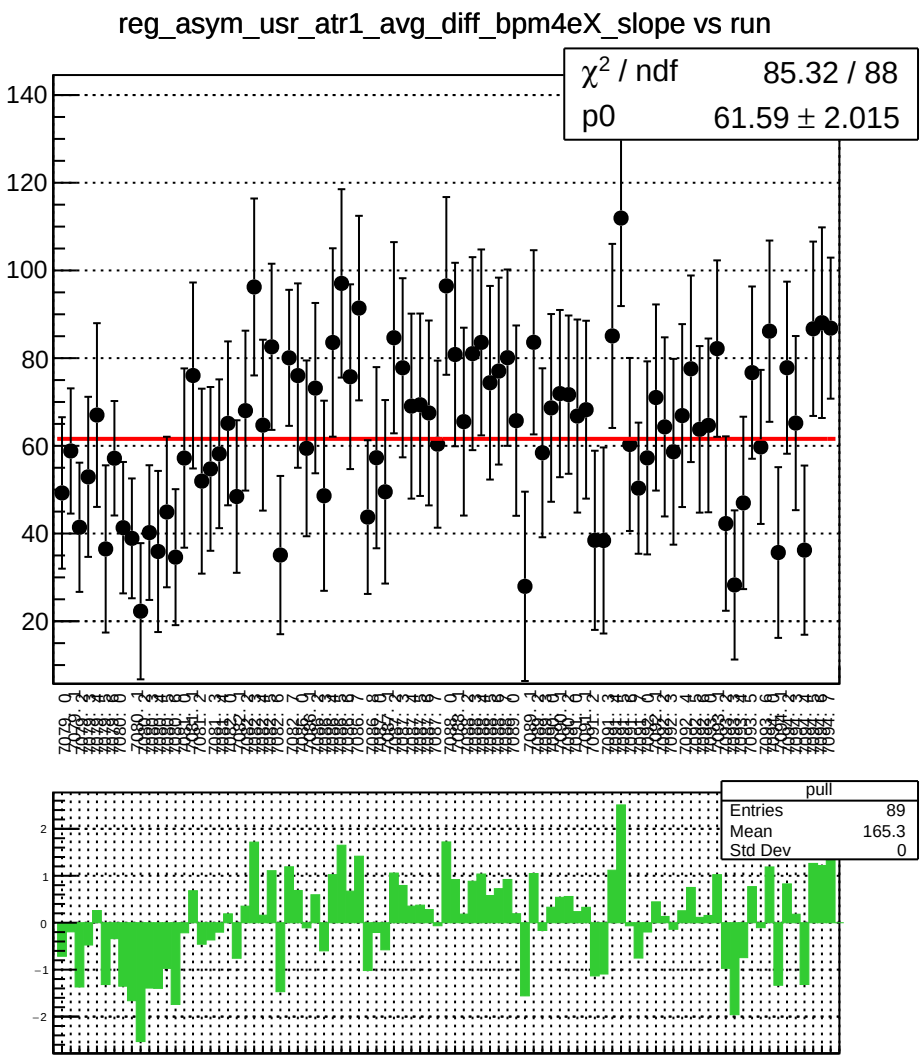

pull1D
Entries 89
Mean 0.01085
Std Dev 0.4674

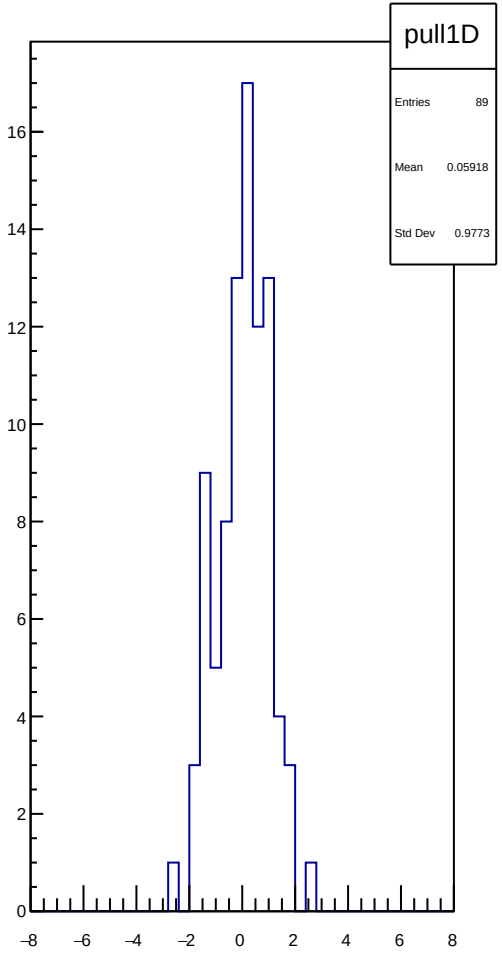

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 45.19 / 88
p0 121.4 ± 0.1901
126
124
122
120
118
116
pull
Entries 89
Mean −838.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.01201
Std Dev 0.7125
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

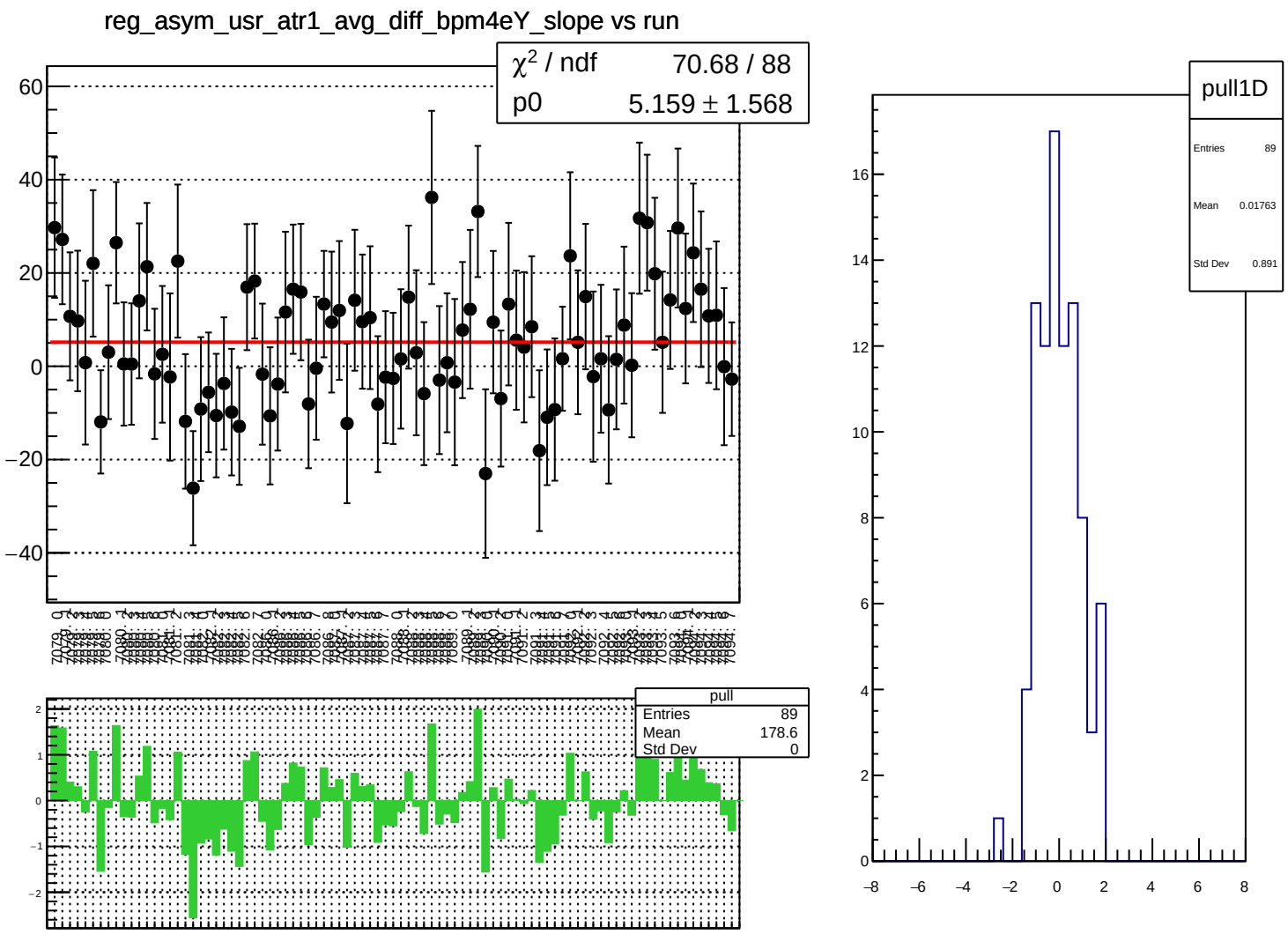

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 85.05 / 88
p0 −63.09 ± 2.092
pull
Entries 89
Mean 164.9
Std Dev 0
pull1D
Entries 89
Mean −0.05723
Std Dev 0.9759

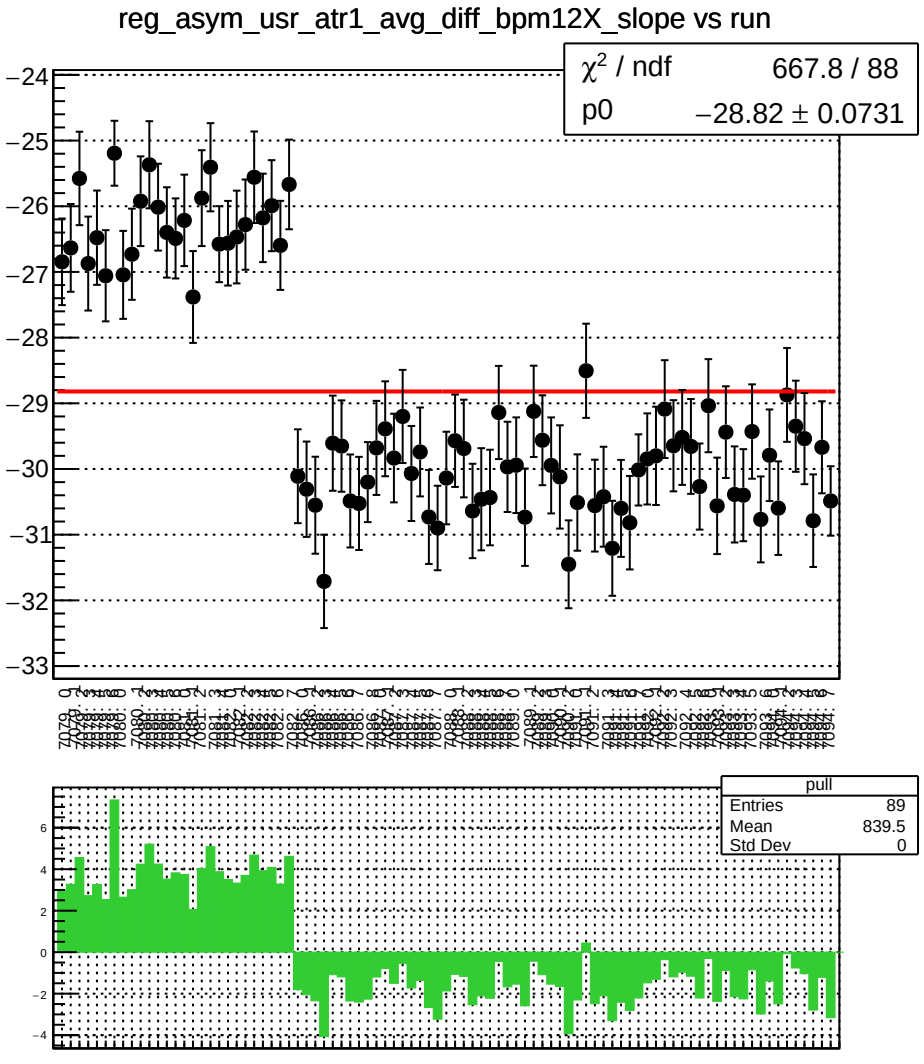

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 69.49 / 88
p0 1.501 ± 1.494
pull
Entries 89
Mean 100.3
Std Dev 67.78

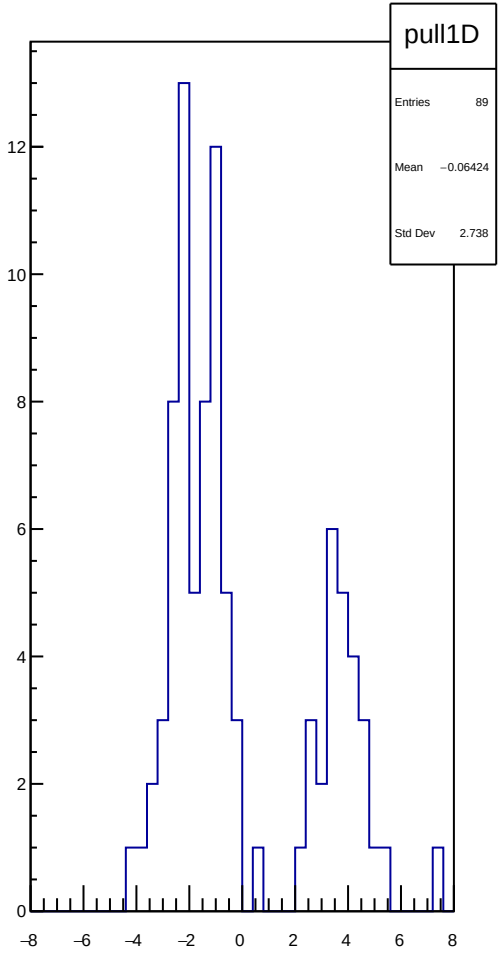

pull1D
Entries 89
Mean −0.01878
Std Dev 0.8834

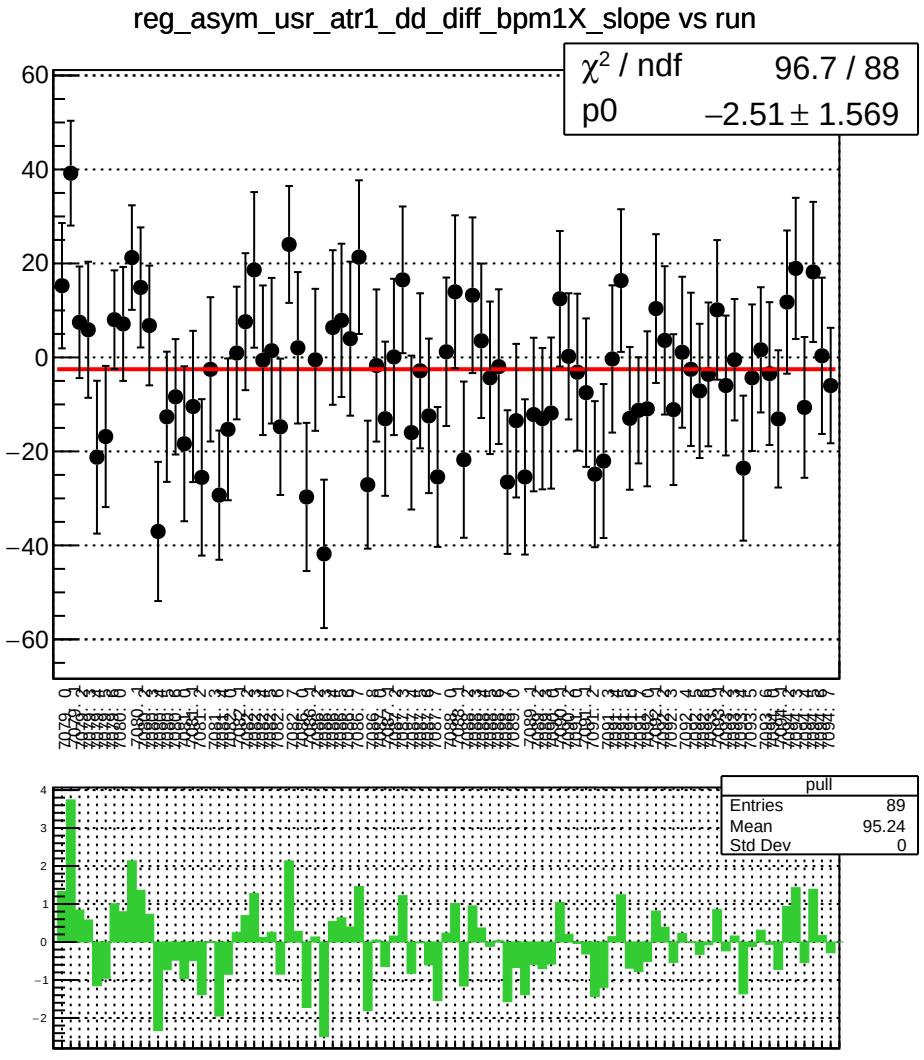

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.32 / 88
p0 61.59 ± 2.015
pull
Entries 89
Mean 165.3
Std Dev 0

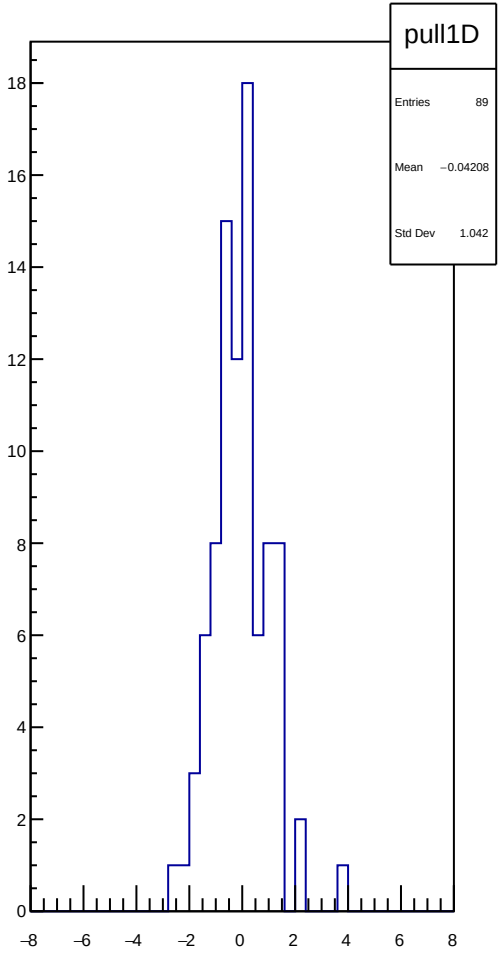

pull1D
Entries 89
Mean 0.05918
Std Dev 0.9773

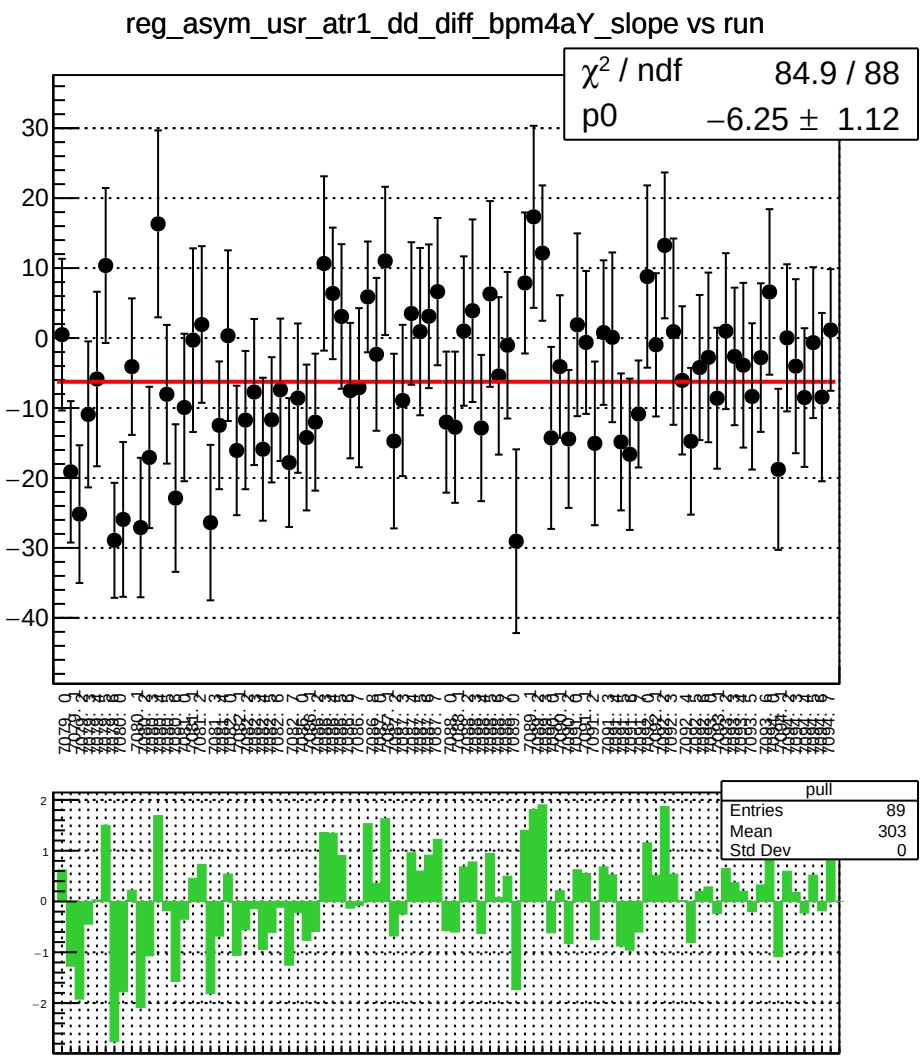

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 70.68 / 88
p0 5.159 ± 1.568
pull
Entries 89
Mean 178.6
Std Dev 0
pull1D
Entries 89
Mean 0.01763
Std Dev 0.891

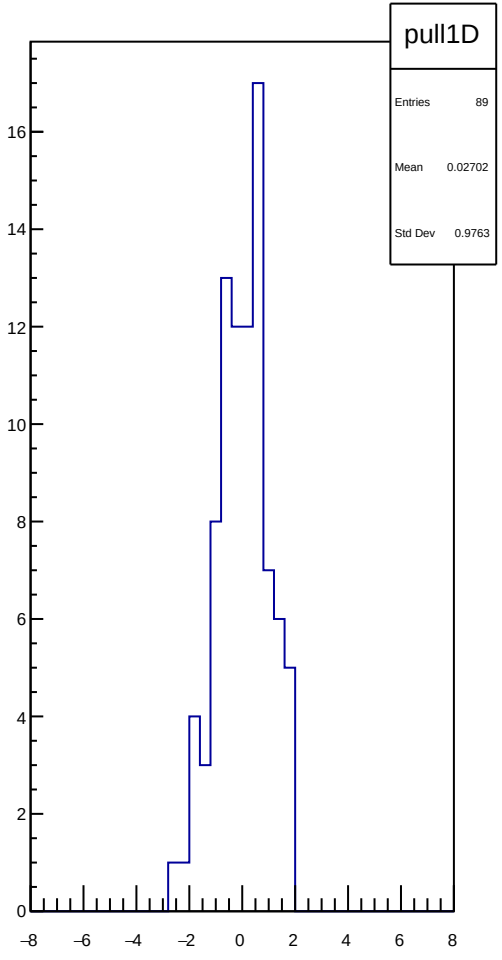

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 667.8 / 88
p0 −28.82 ± 0.0731
pull
Entries 89
Mean 839.5
Std Dev 0

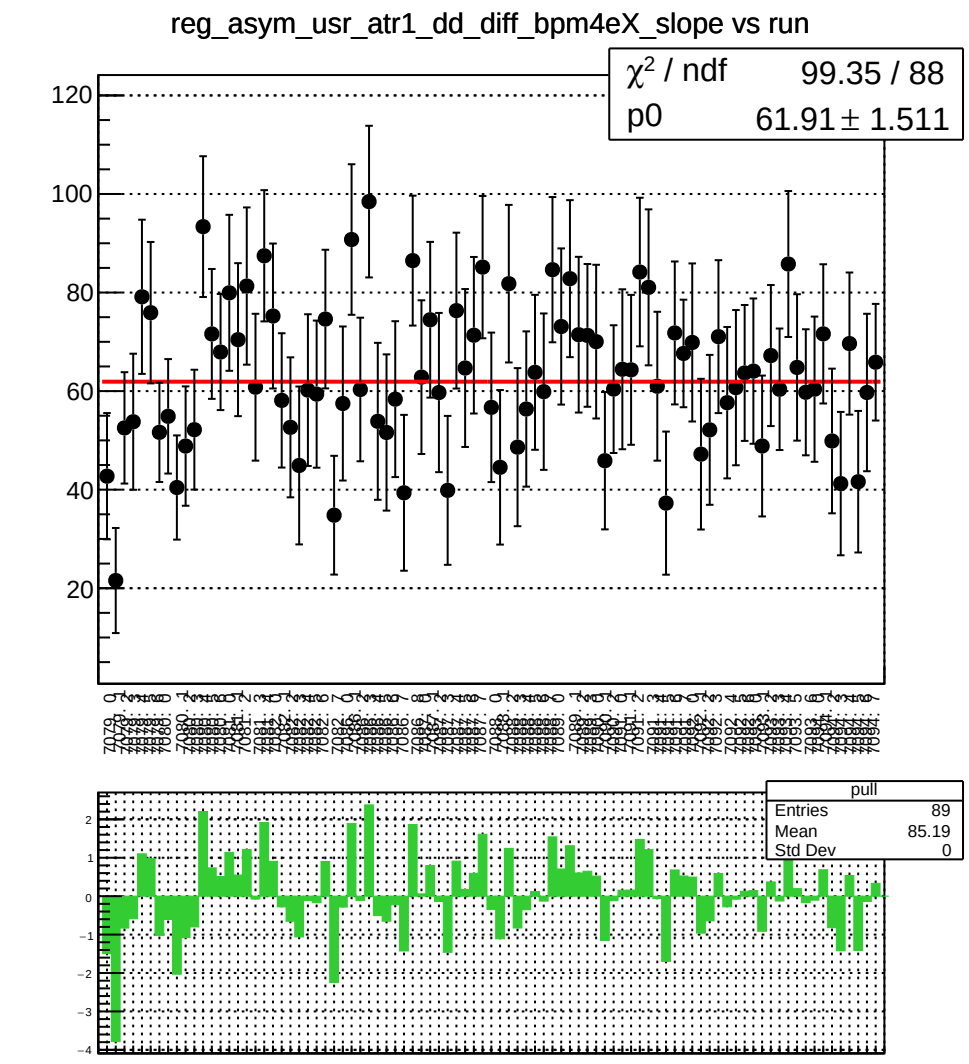

pull1D
Entries 89
Mean −0.06424
Std Dev 2.738

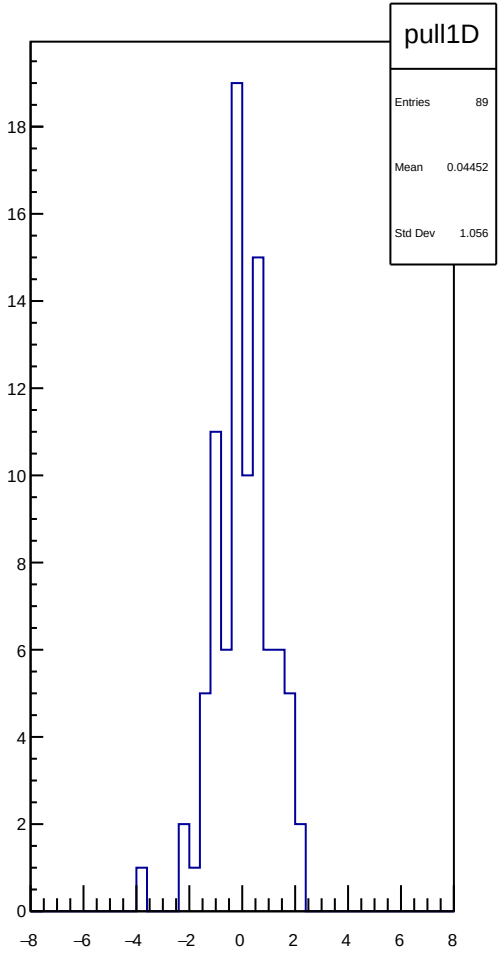

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 96.7 / 88
p0 −2.51 ± 1.569
pull
Entries 89
Mean 95.24
Std Dev 0

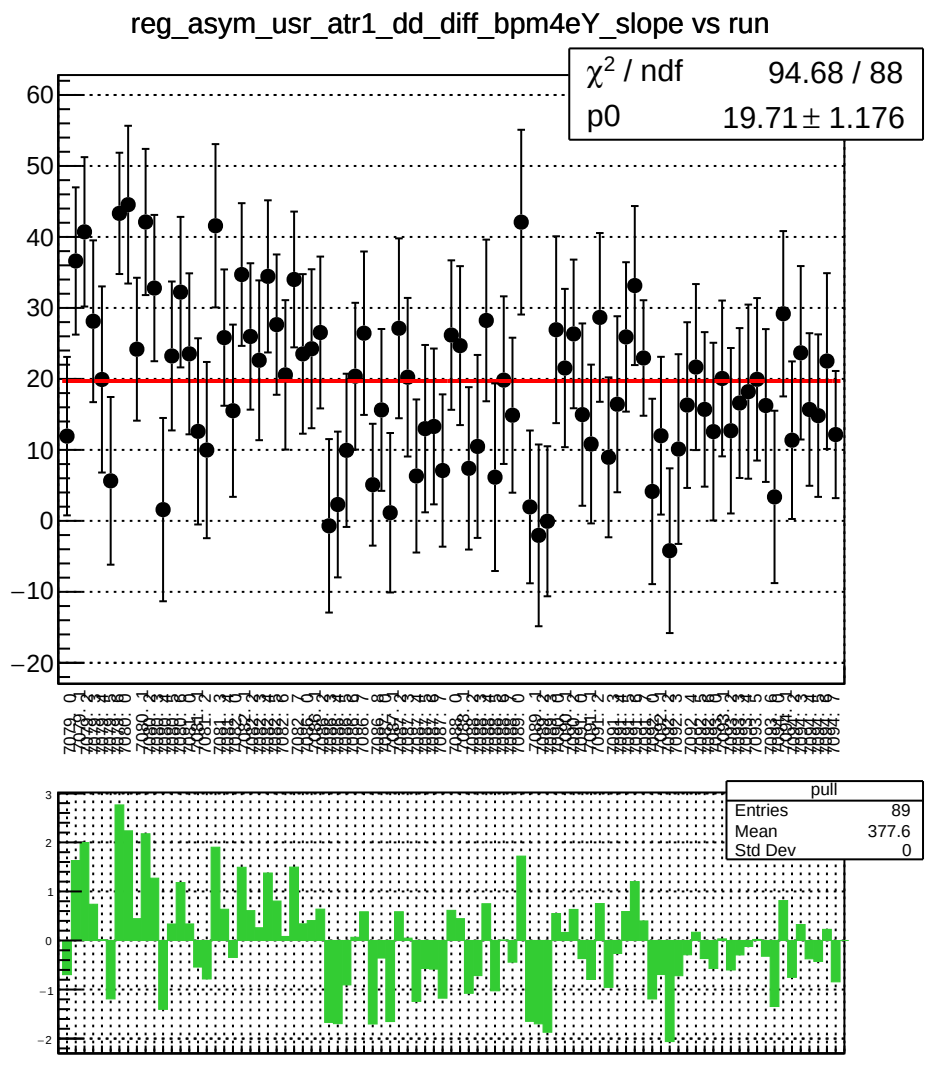

pull1D
Entries 89
Mean −0.04208
Std Dev 1.042

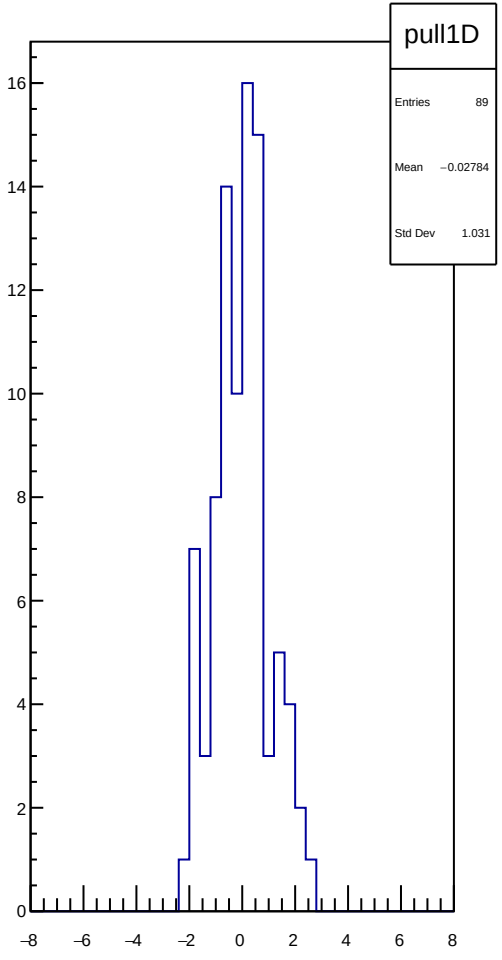

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.9 / 88
p0 −6.25 ± 1.12
pull
Entries 89
Mean 303
Std Dev 0

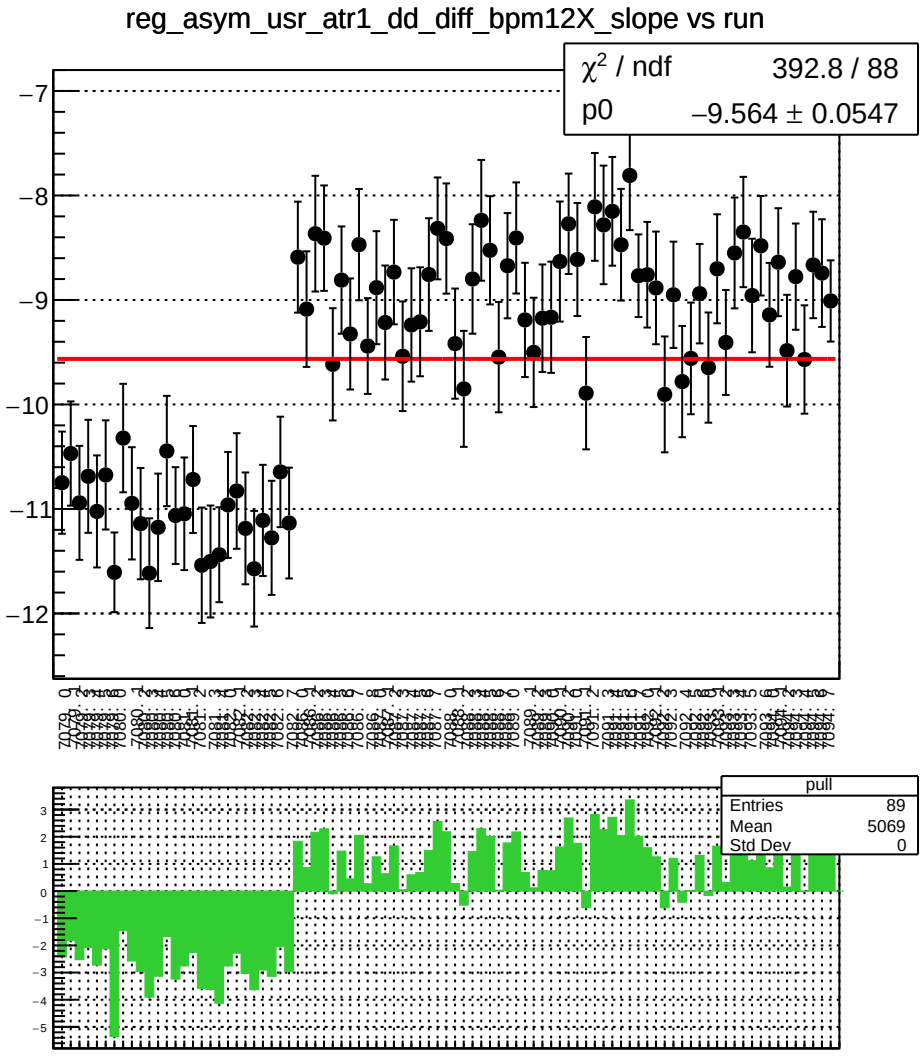

pull1D
Entries 89
Mean 0.02702
Std Dev 0.9763

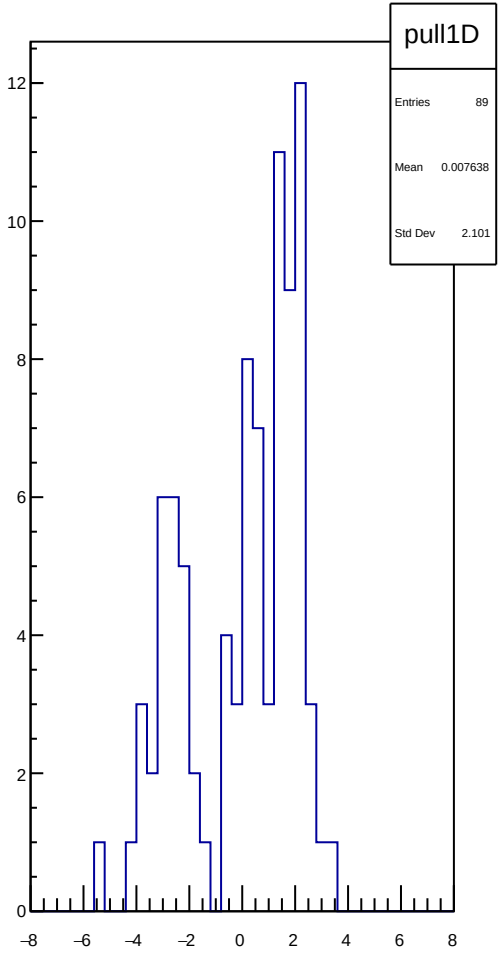

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 99.35 / 88
p0 61.91 ± 1.511
pull
Entries 89
Mean 85.19
Std Dev 0

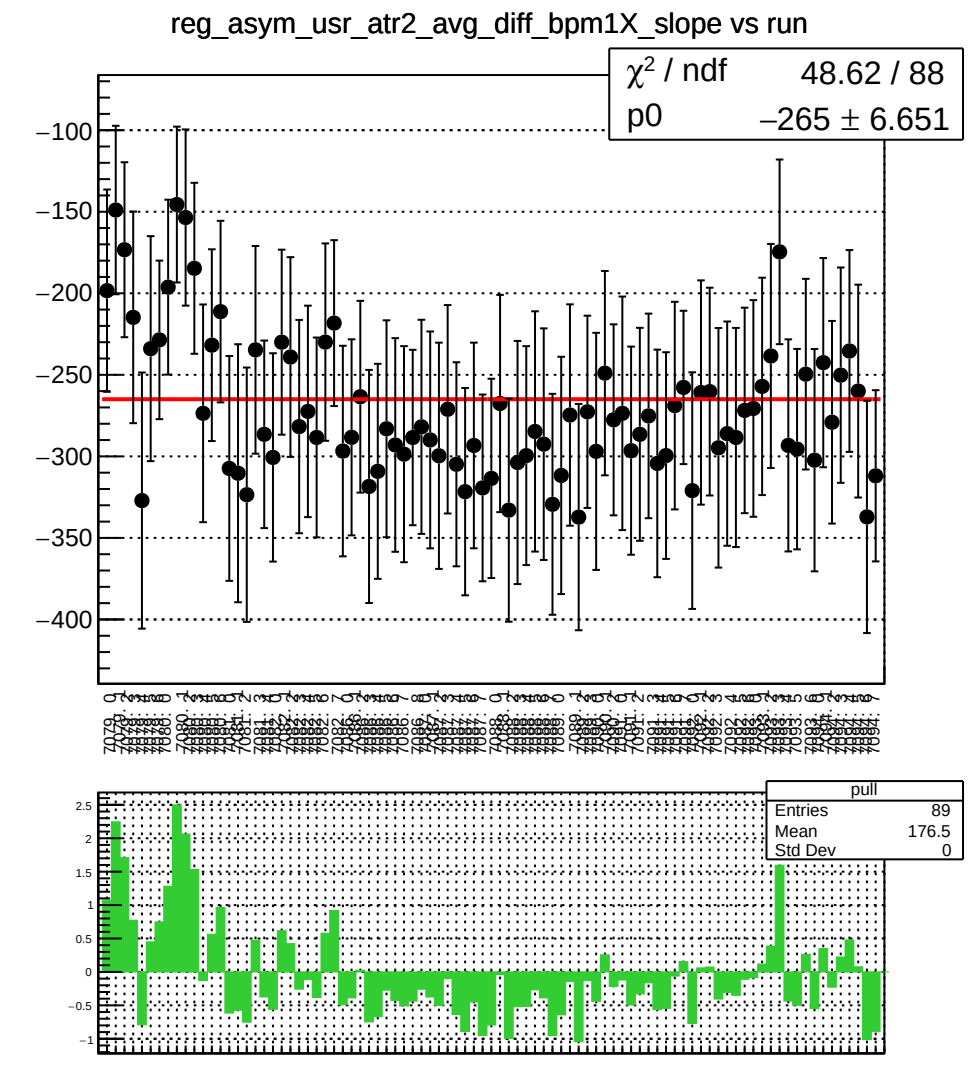

pull1D
Entries 89
Mean 0.04452
Std Dev 1.056

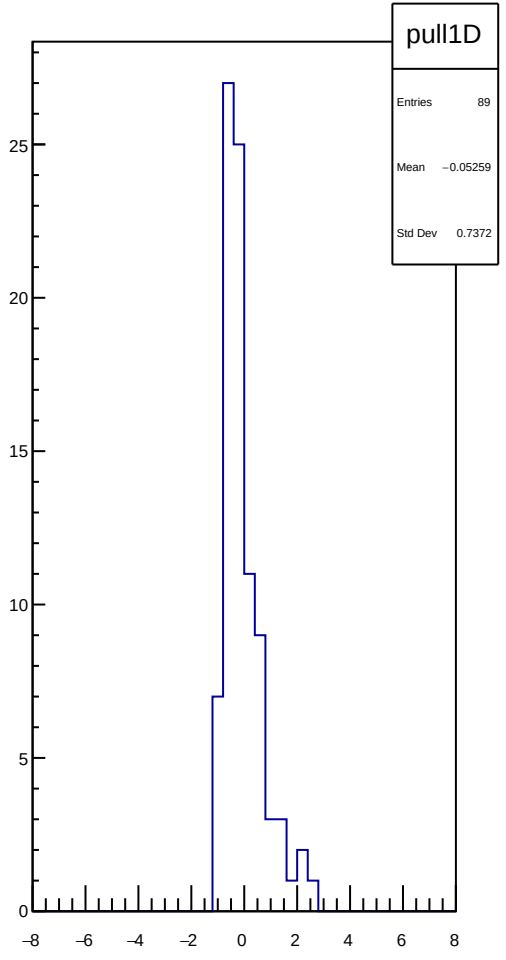

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.68 / 88
p0 19.71 ± 1.176
pull
Entries 89
Mean 377.6
Std Dev 0

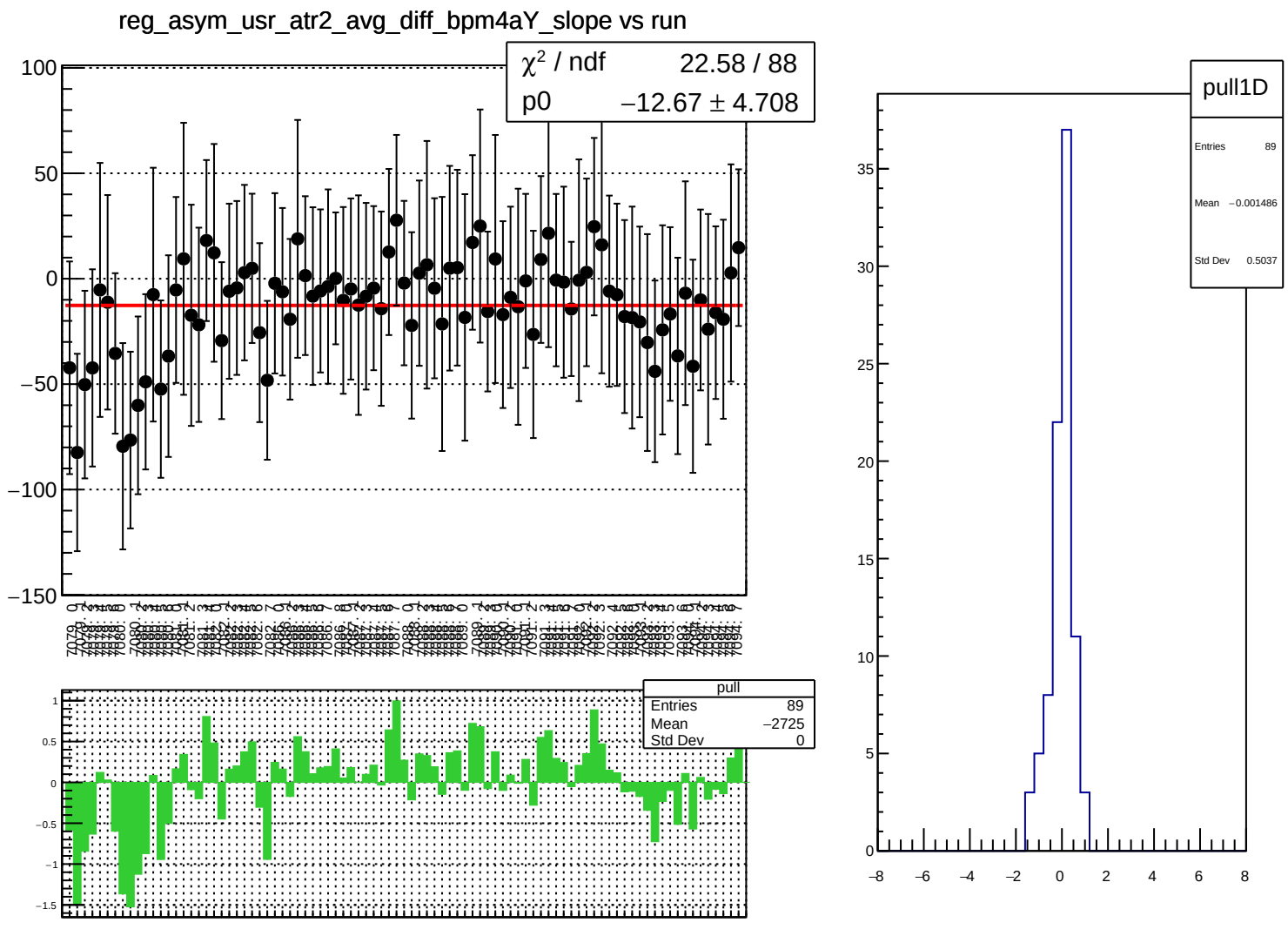

pull1D
Entries 89
Mean −0.02784
Std Dev 1.031

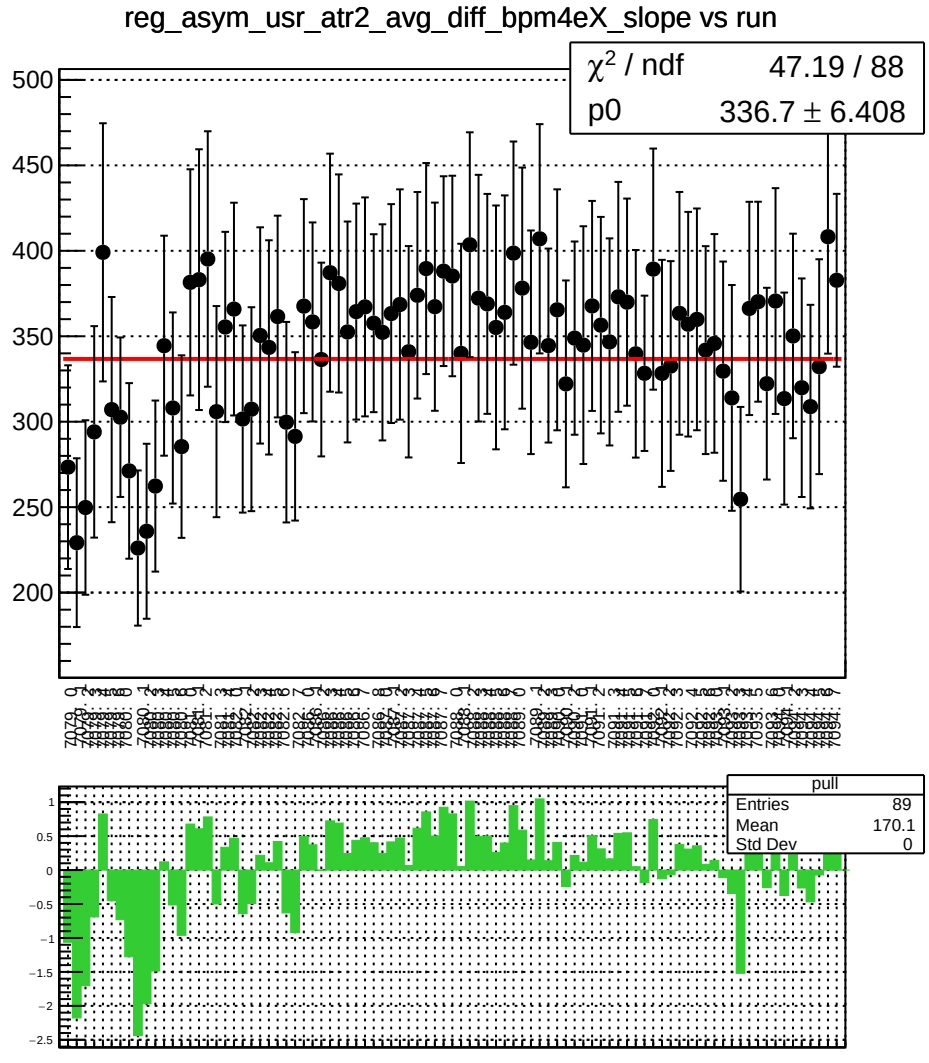

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 392.8 / 88
p0 −9.564 ± 0.0547
pull
Entries 89
Mean 5069
Std Dev 0

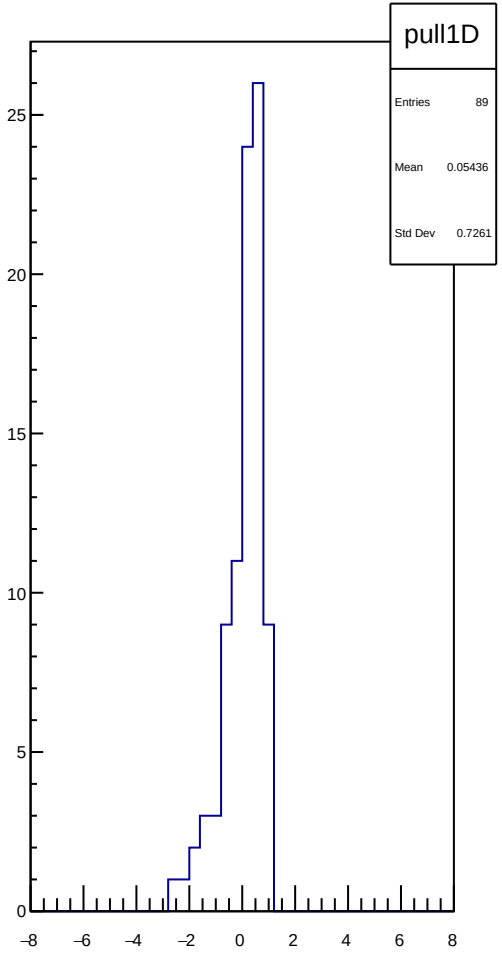

pull1D
Entries 89
Mean 0.007638
Std Dev 2.101

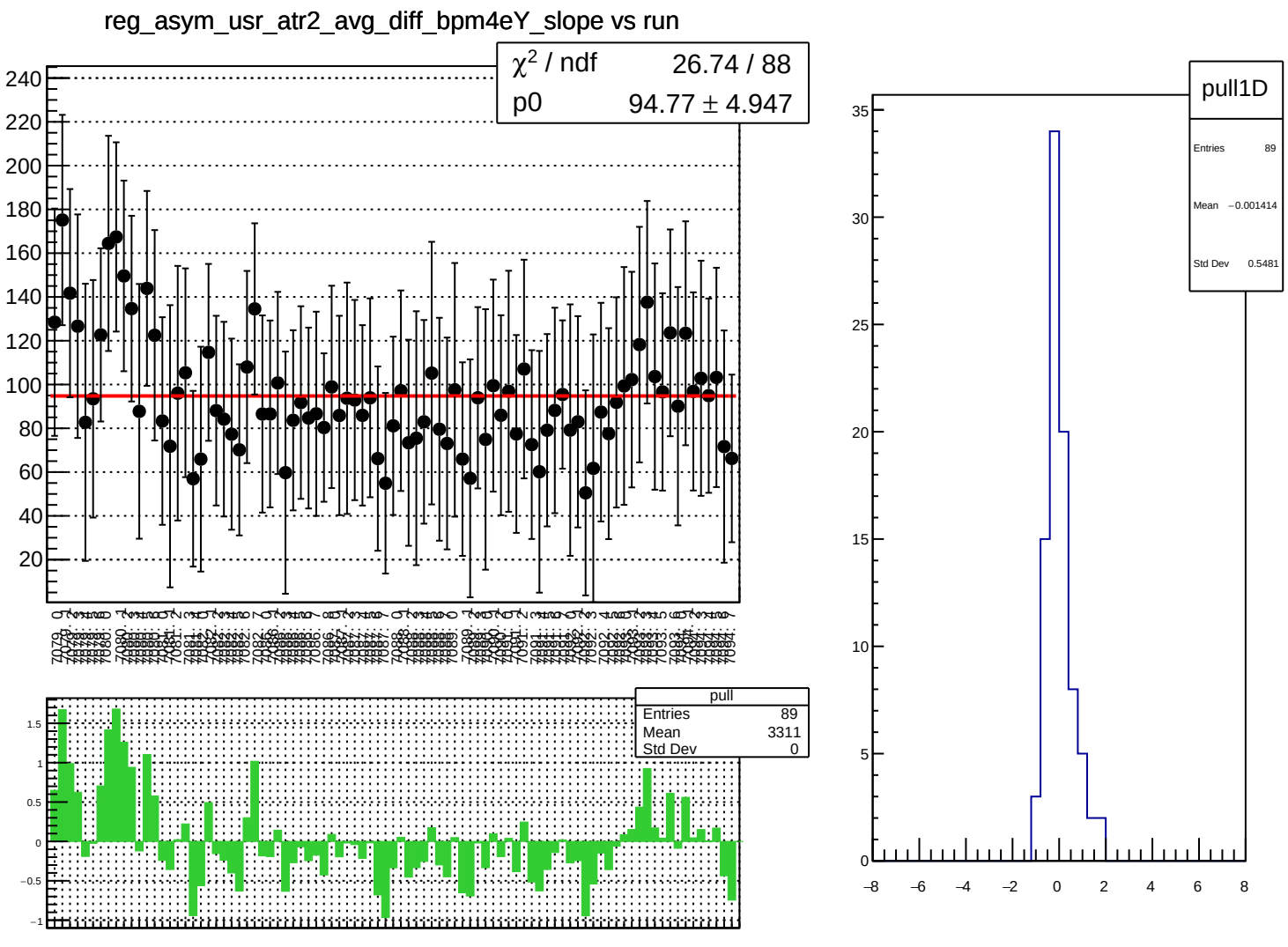

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 48.62 / 88
p0 −265 ± 6.651
−100
−150
−200
−250
−300
−350
−400
pull
Entries 89
Mean 176.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

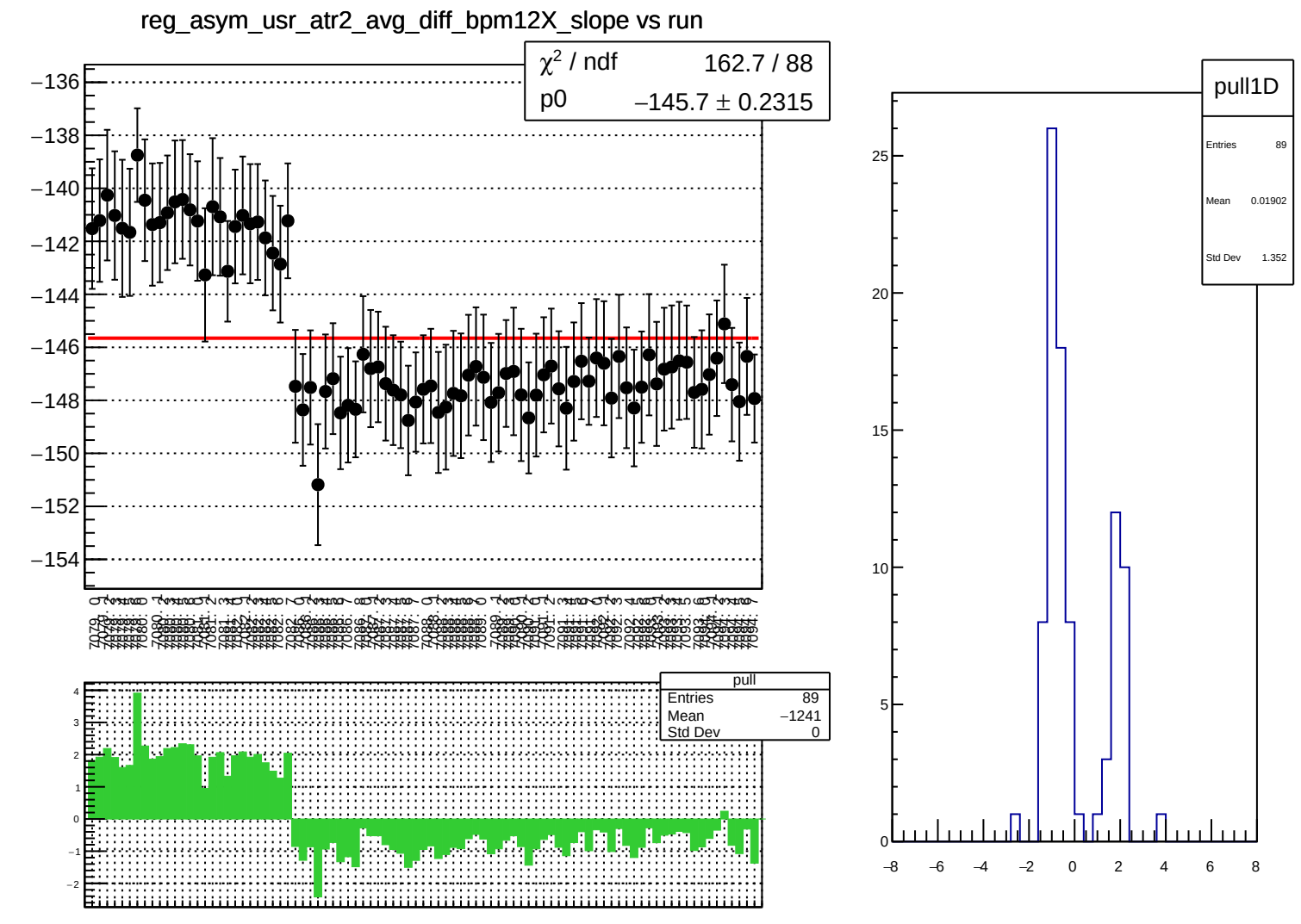

pull1D
Entries 89
Mean −0.05259
Std Dev 0.7372
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

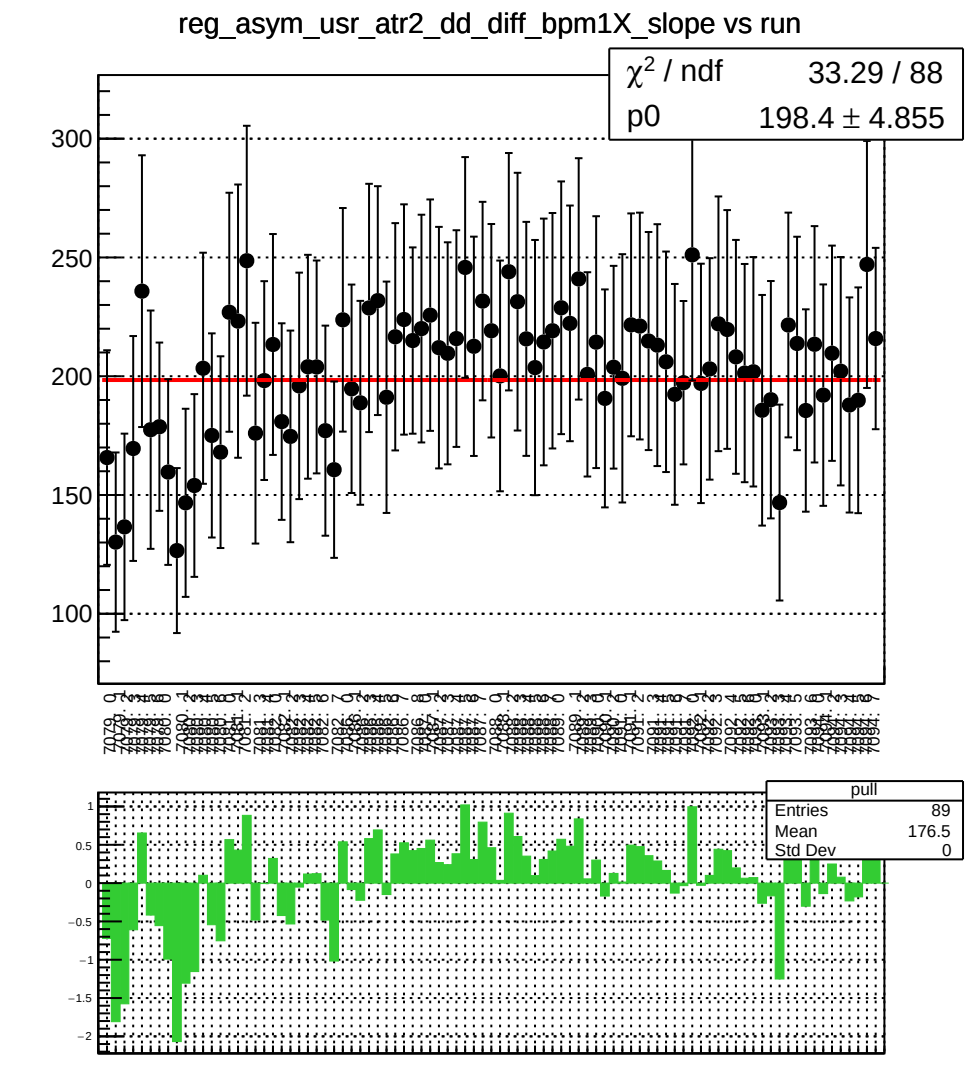

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.58 / 88
p0 −12.67 ± 4.708
pull
Entries 89
Mean −2725
Std Dev 0
pull1D
Entries 89
Mean −0.001486
Std Dev 0.5037

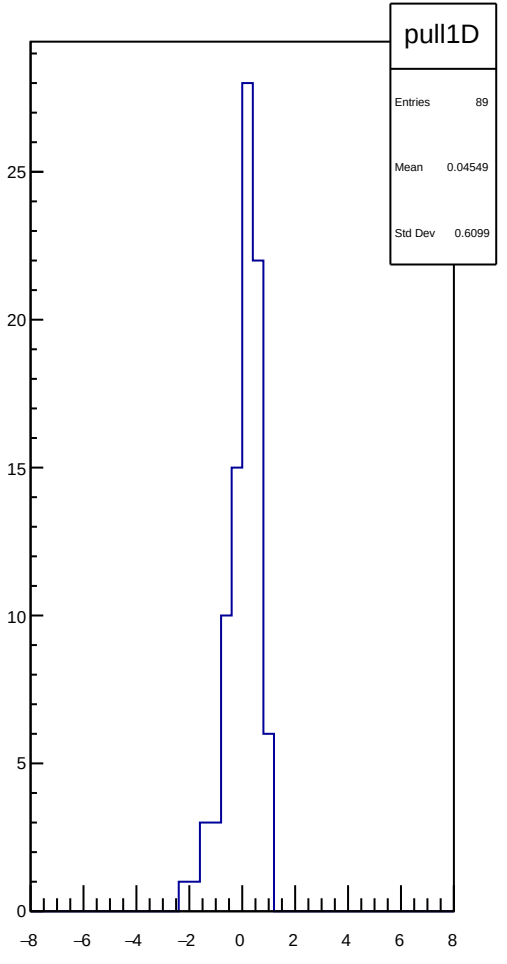

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.19 / 88
p0 336.7 ± 6.408
pull
Entries 89
Mean 170.1
Std Dev 0

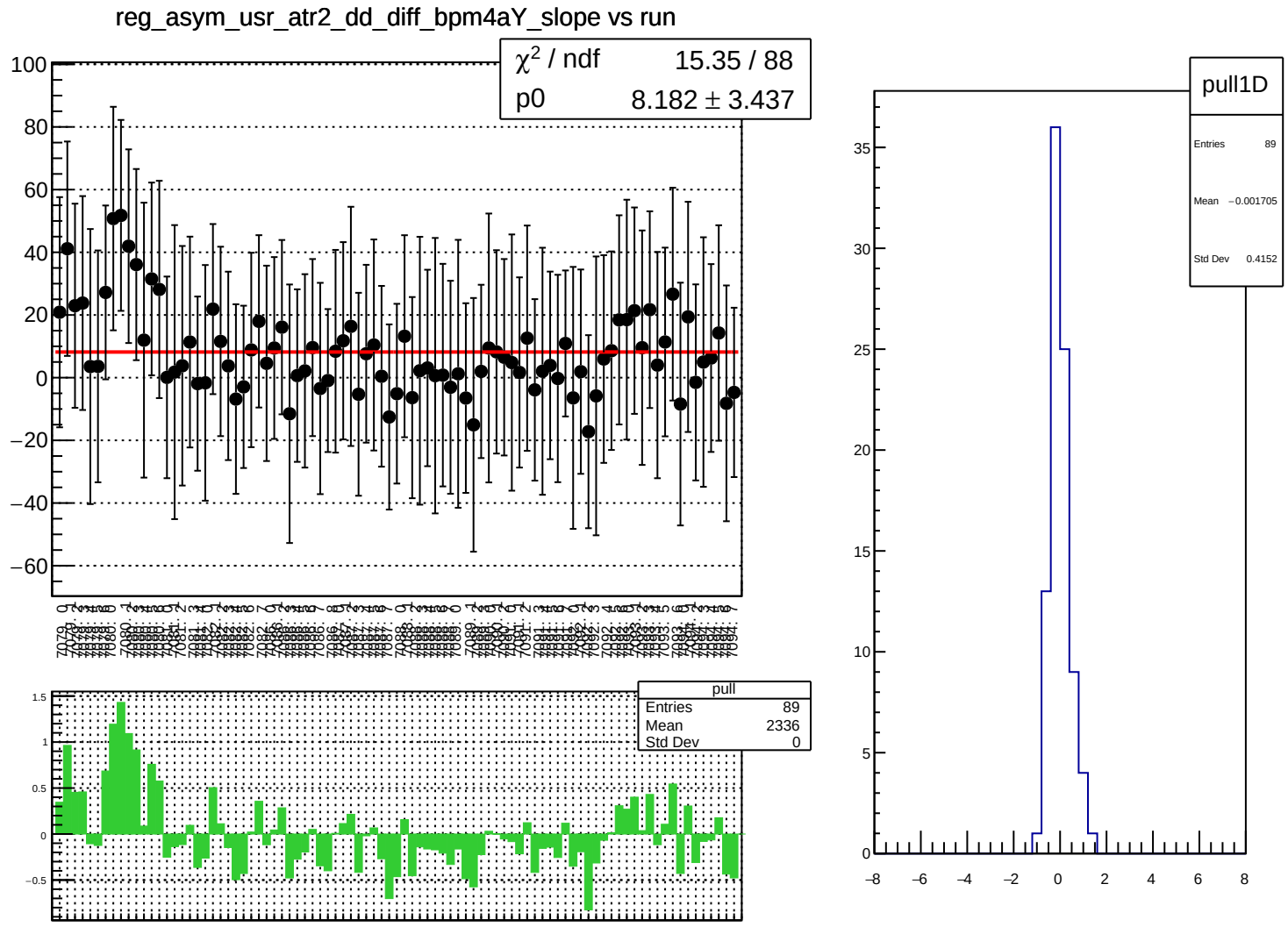

pull1D
Entries 89
Mean 0.05436
Std Dev 0.7261

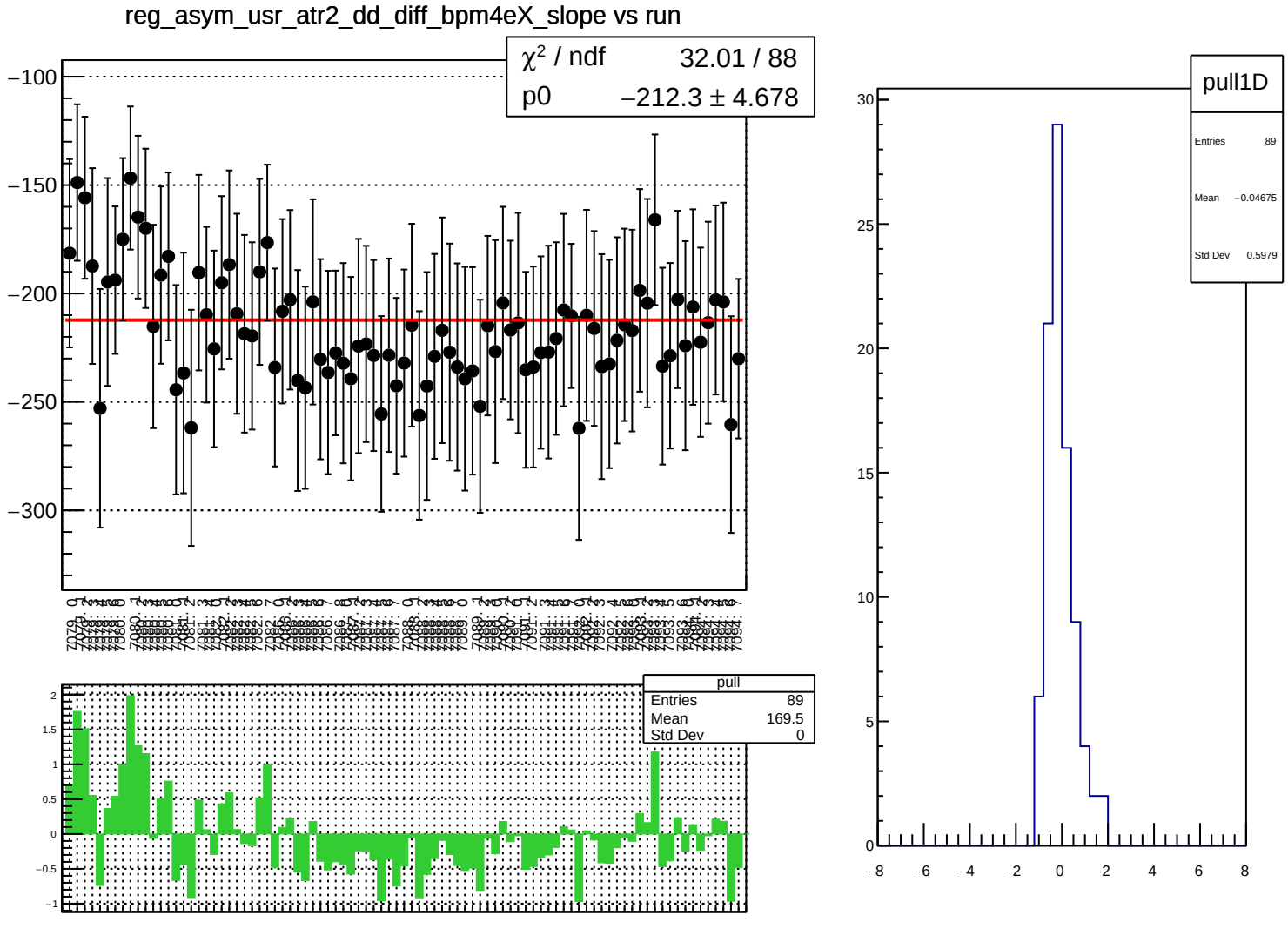

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.74 / 88
p0 94.77 ± 4.947
pull
Entries 89
Mean 3311
Std Dev 0
pull1D
Entries 89
Mean −0.001414
Std Dev 0.5481

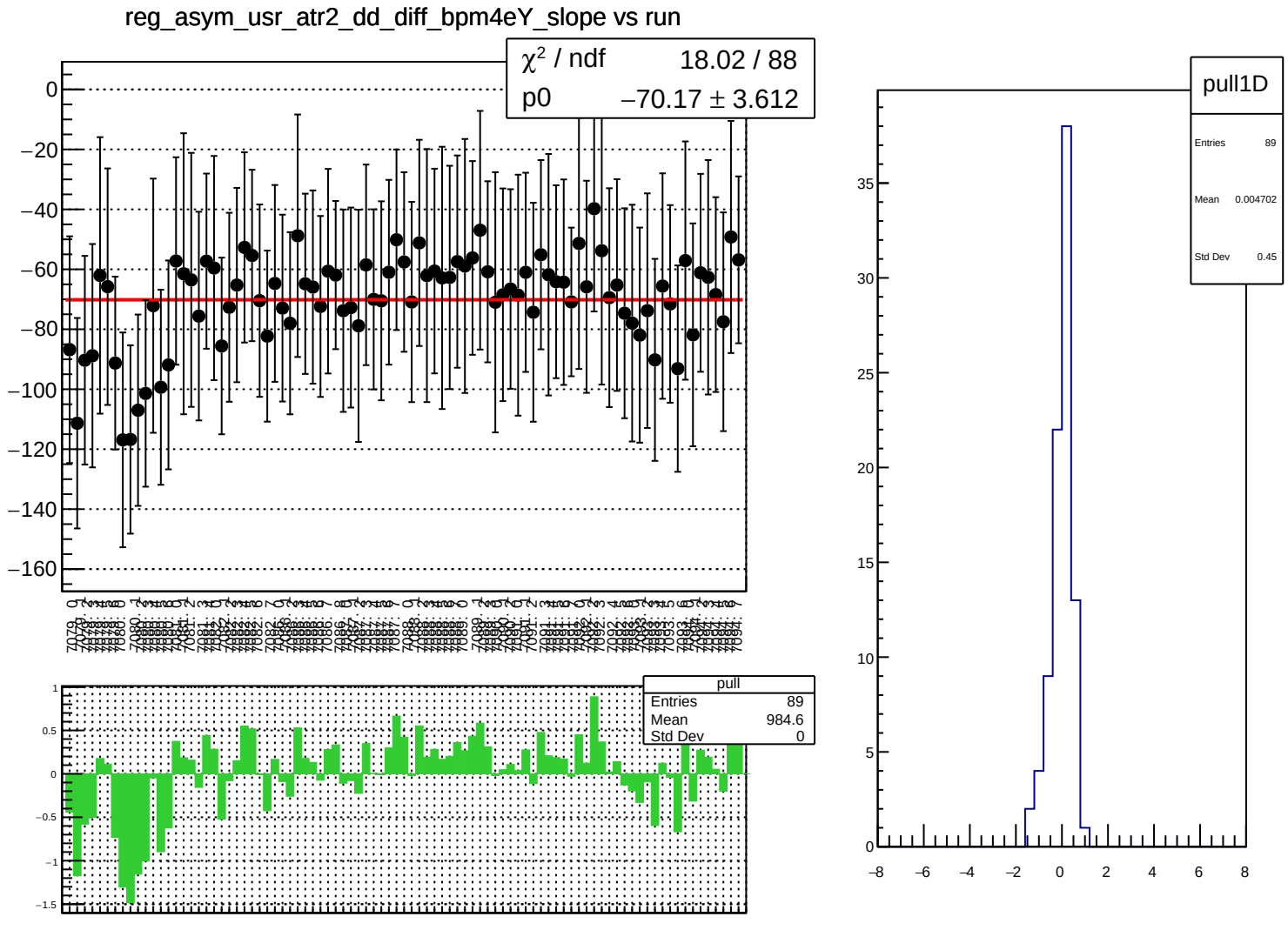

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 162.7 / 88
p0 −145.7 ± 0.2315
pull
Entries 89
Mean −1241
Std Dev 0
pull1D
Entries 89
Mean 0.01902
Std Dev 1.352

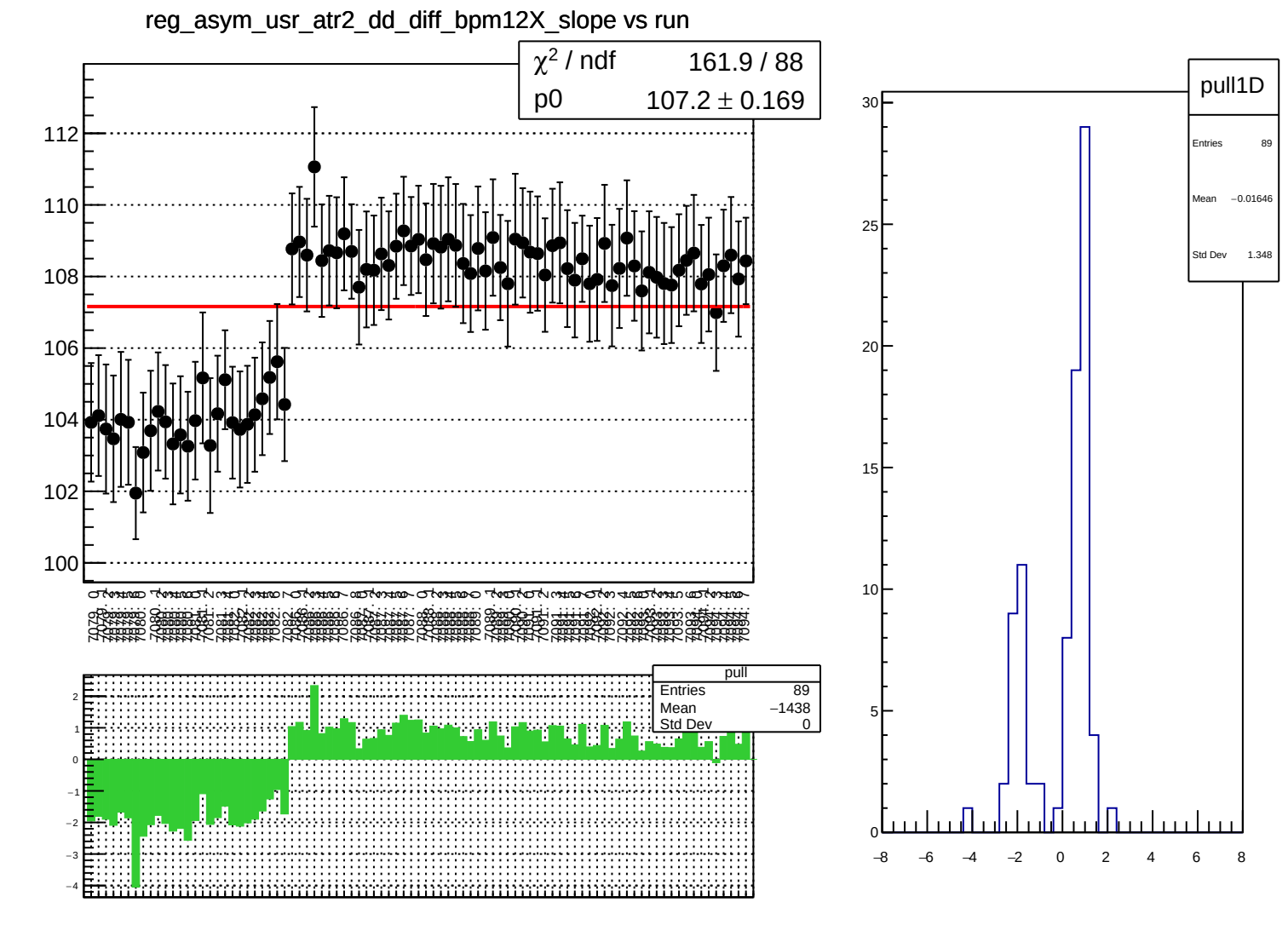

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 33.29 / 88
p0 198.4 ± 4.855
300
250
200
150
100
pull
Entries 89
Mean 176.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

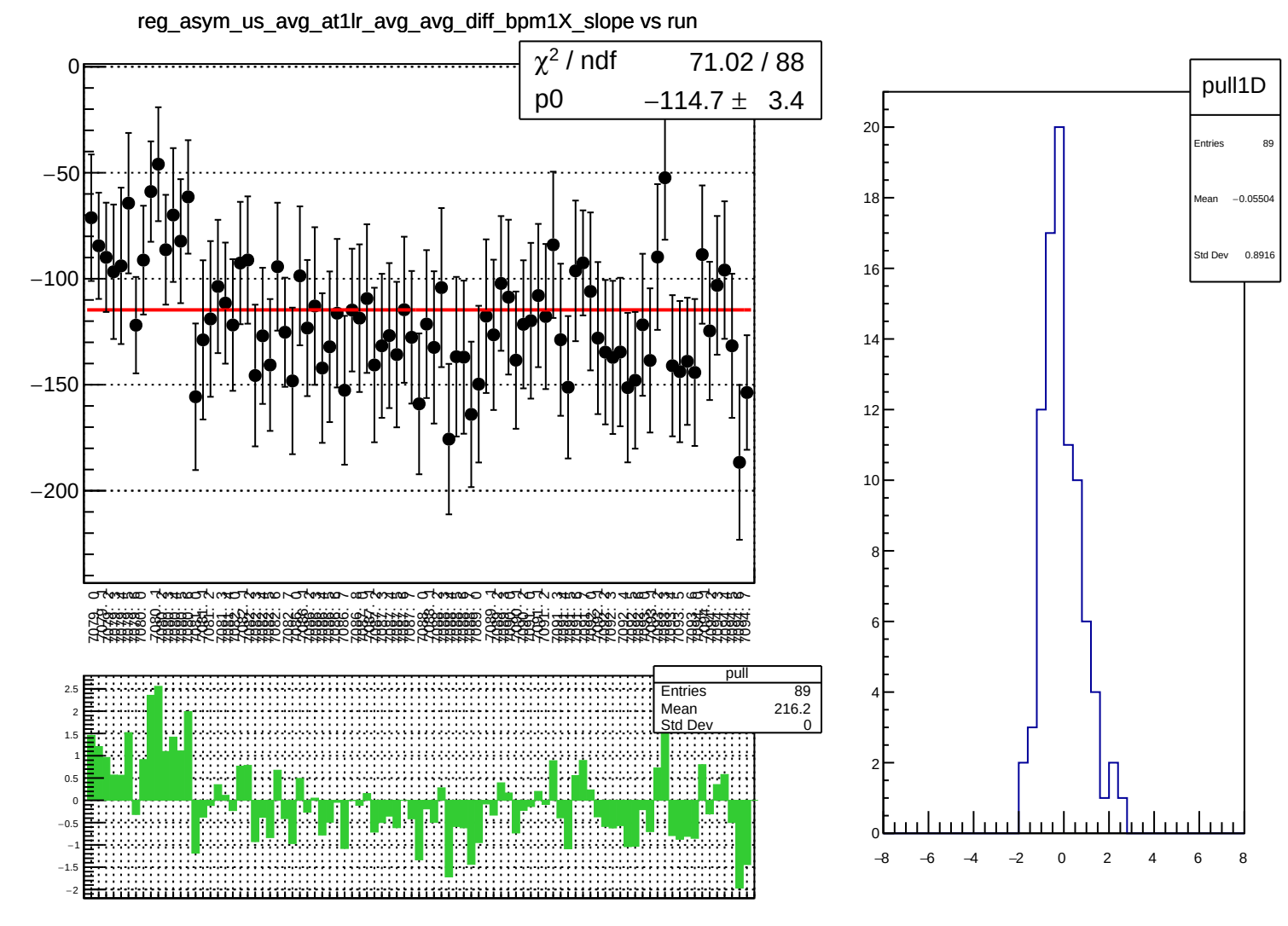

pull1D
Entries 89
Mean 0.04549
Std Dev 0.6099
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

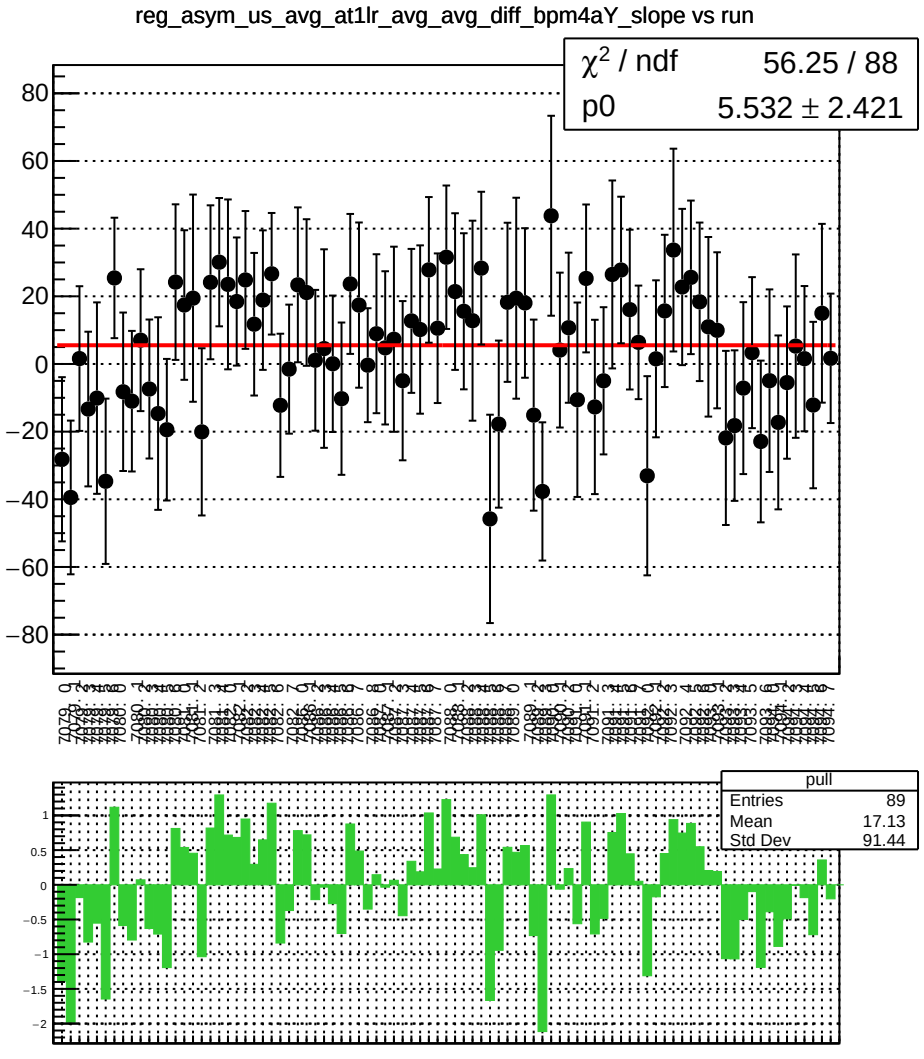

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.35 / 88
p0 8.182 ± 3.437
pull
Entries 89
Mean 2336
Std Dev 0
pull1D
Entries 89
Mean −0.001705
Std Dev 0.4152

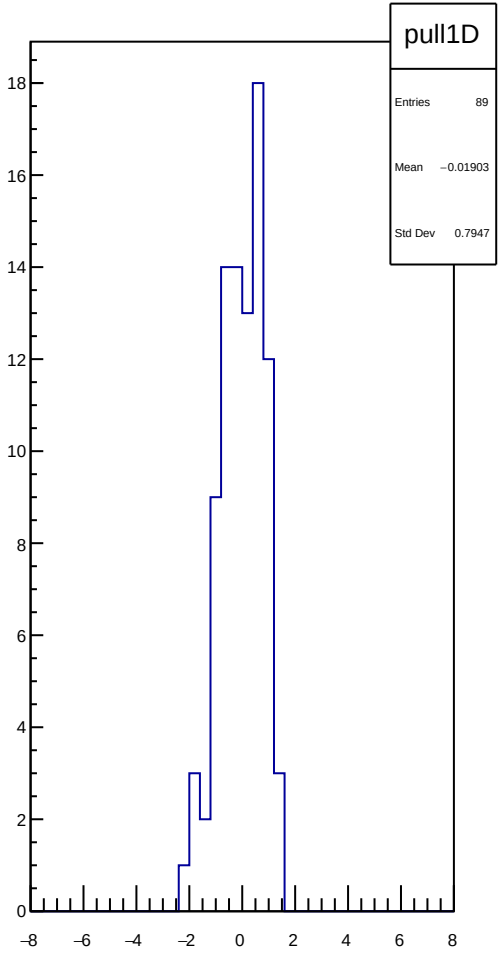

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.01 / 88
p0 −212.3 ± 4.678
pull
Entries 89
Mean 169.5
Std Dev 0
pull1D
Entries 89
Mean −0.04675
Std Dev 0.5979

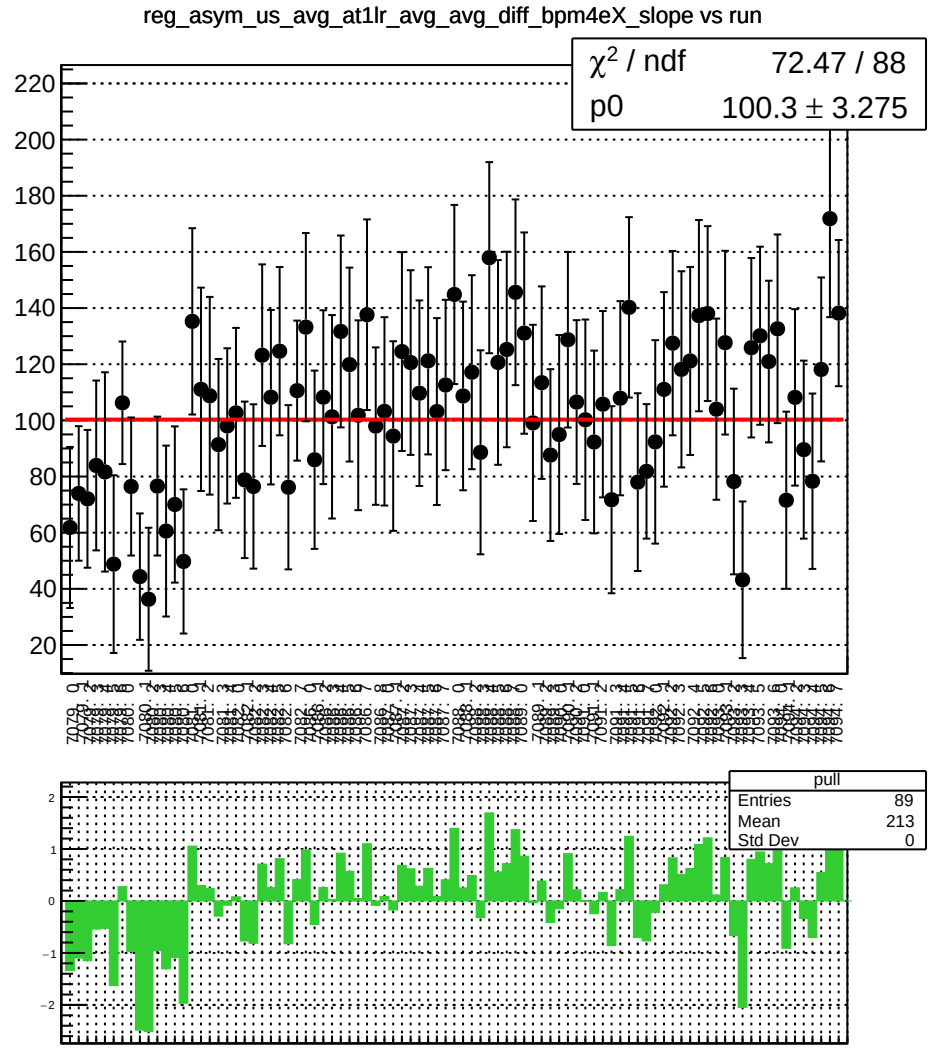

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.02 / 88
p0 −70.17 ± 3.612
pull
Entries 89
Mean 984.6
Std Dev 0
pull1D
Entries 89
Mean 0.004702
Std Dev 0.45

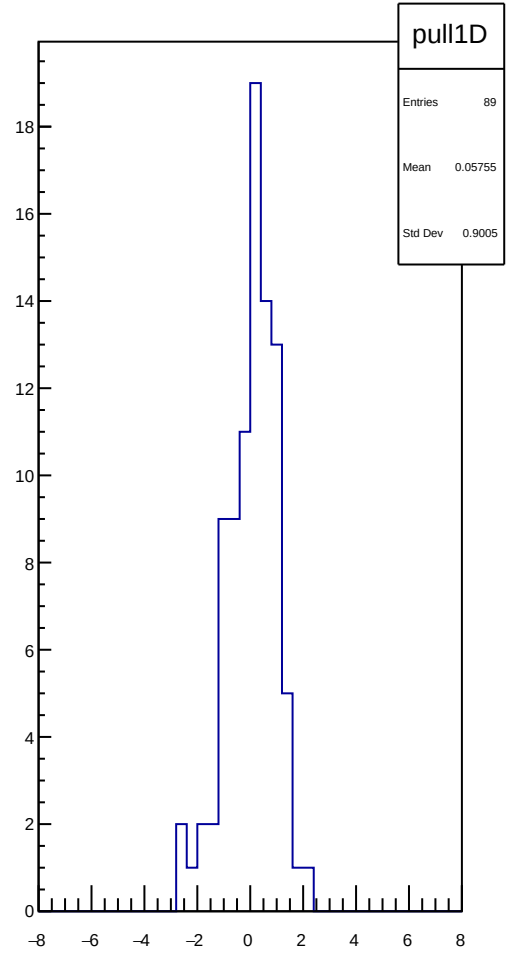

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 161.9 / 88
p0 107.2 ± 0.169
112
110
108
106
104
102
100
pull
Entries 89
Mean −1438
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.01646
Std Dev 1.348
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

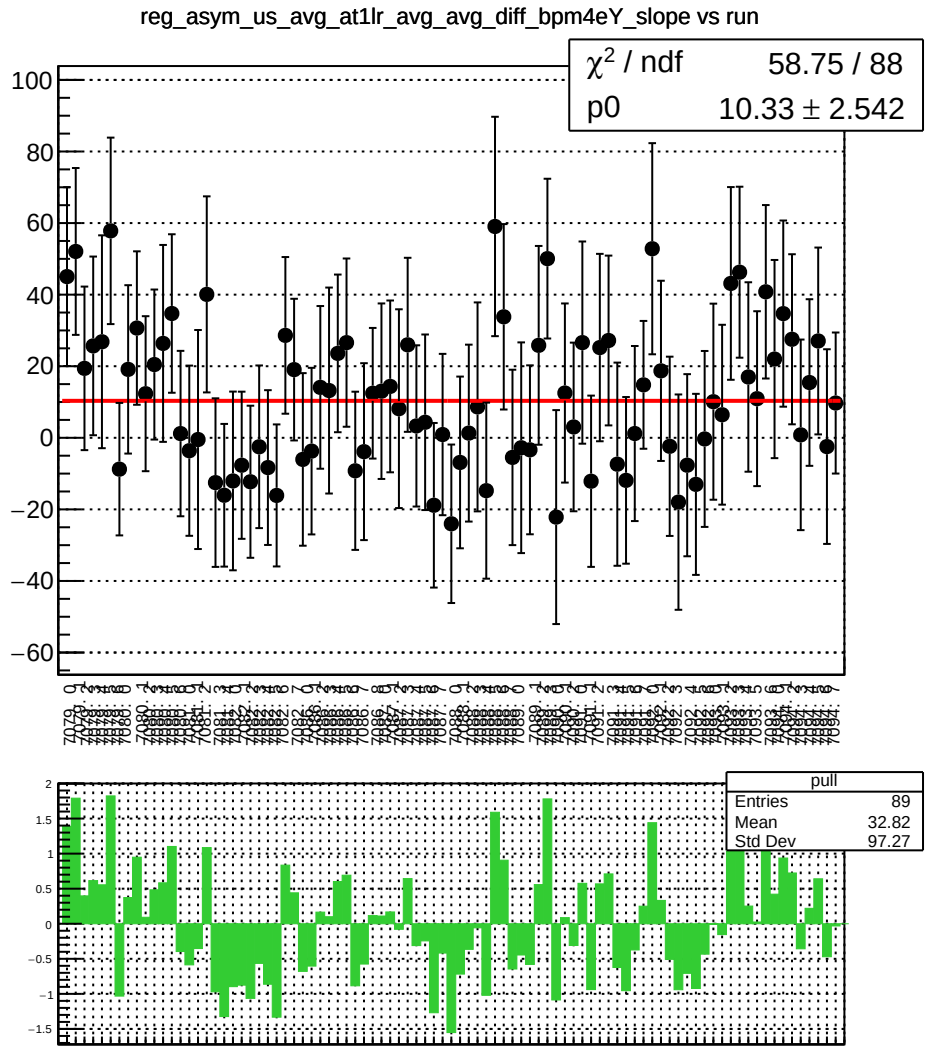

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 71.02 / 88
p0 −114.7 ± 3.4
pull
Entries 89
Mean 216.2
Std Dev 0
pull1D
Entries 89
Mean −0.05504
Std Dev 0.8916

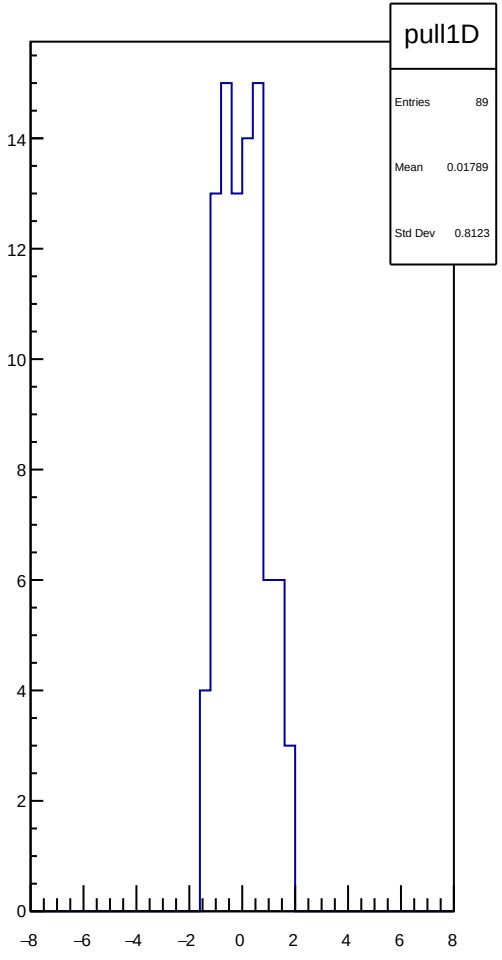

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.25 / 88
p0 5.532 ± 2.421
pull
Entries 89
Mean 17.13
Std Dev 91.44

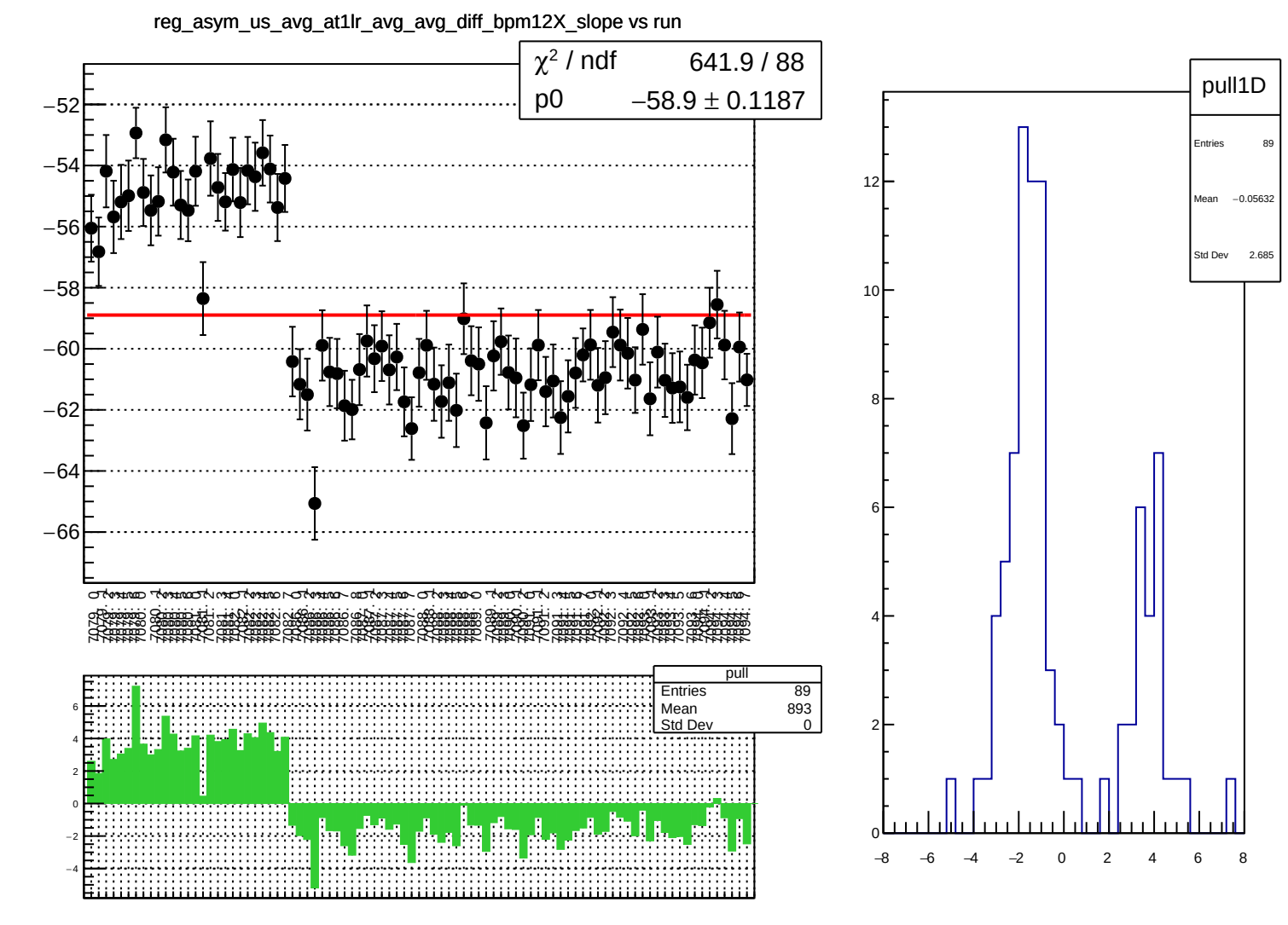

pull1D
Entries 89
Mean −0.01903
Std Dev 0.7947

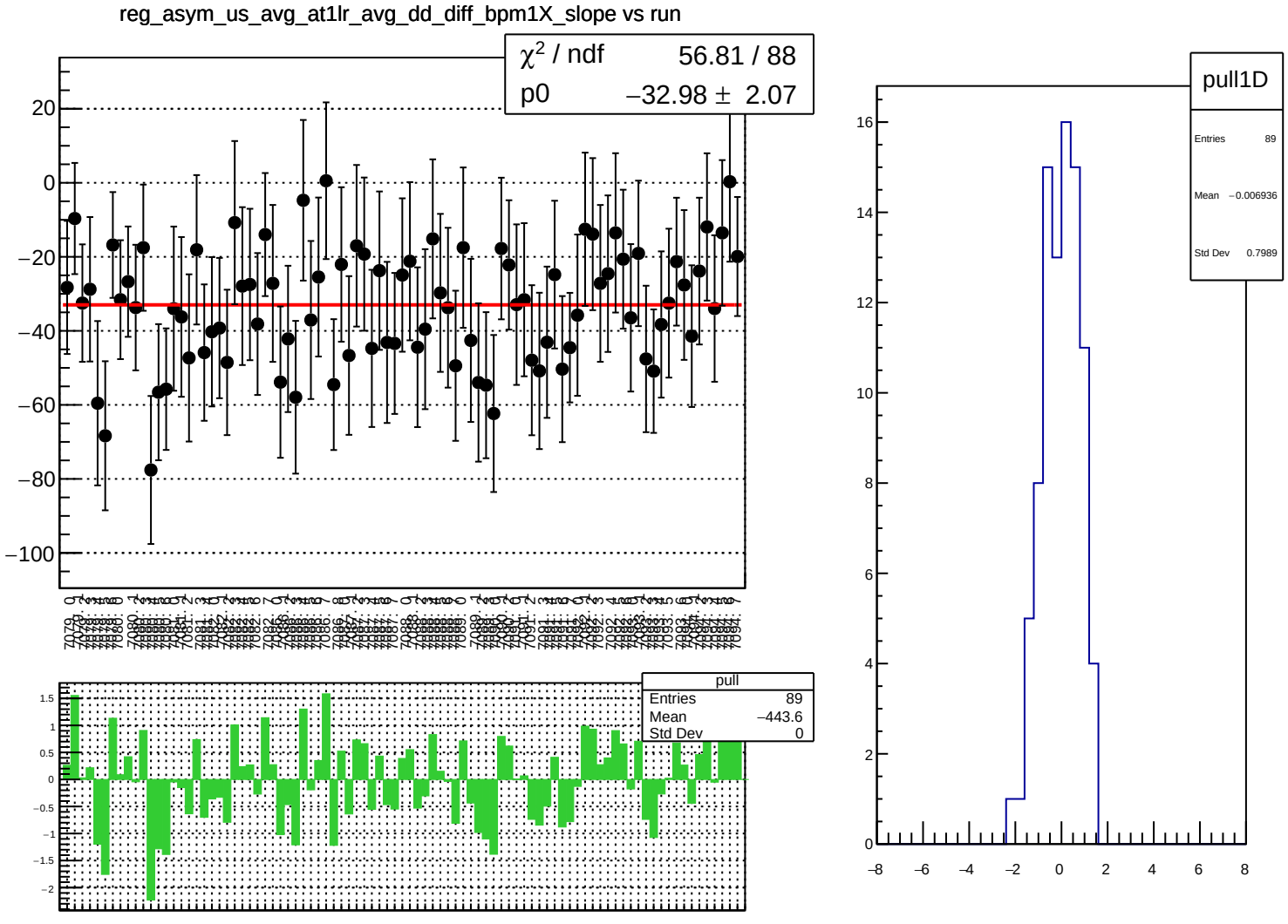

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.47 / 88
p0 100.3 ± 3.275
pull
Entries 89
Mean 213
Std Dev 0

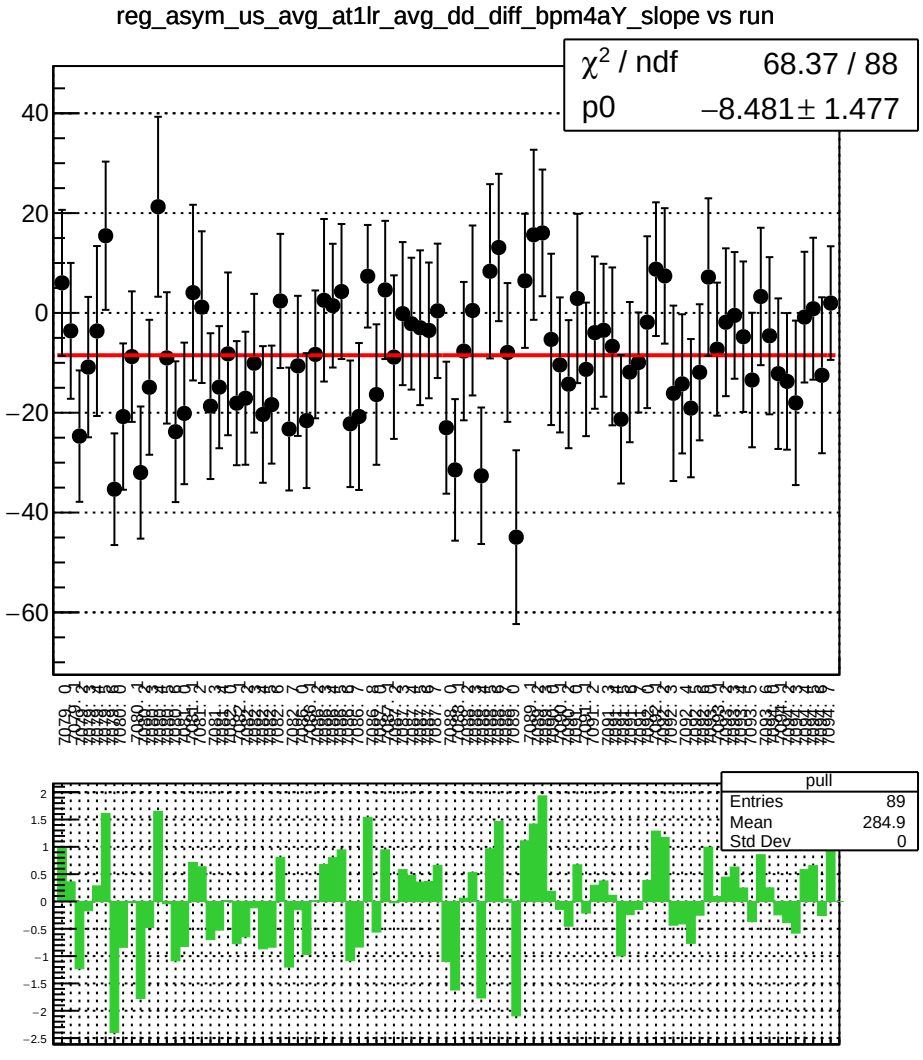

pull1D
Entries 89
Mean 0.05755
Std Dev 0.9005

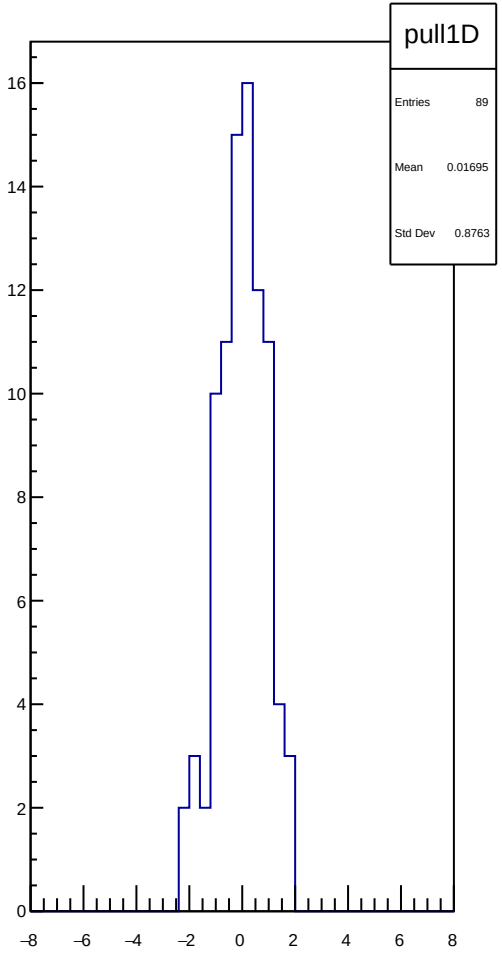

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.75 / 88
p0 10.33 ± 2.542
pull
Entries 89
Mean 32.82
Std Dev 97.27

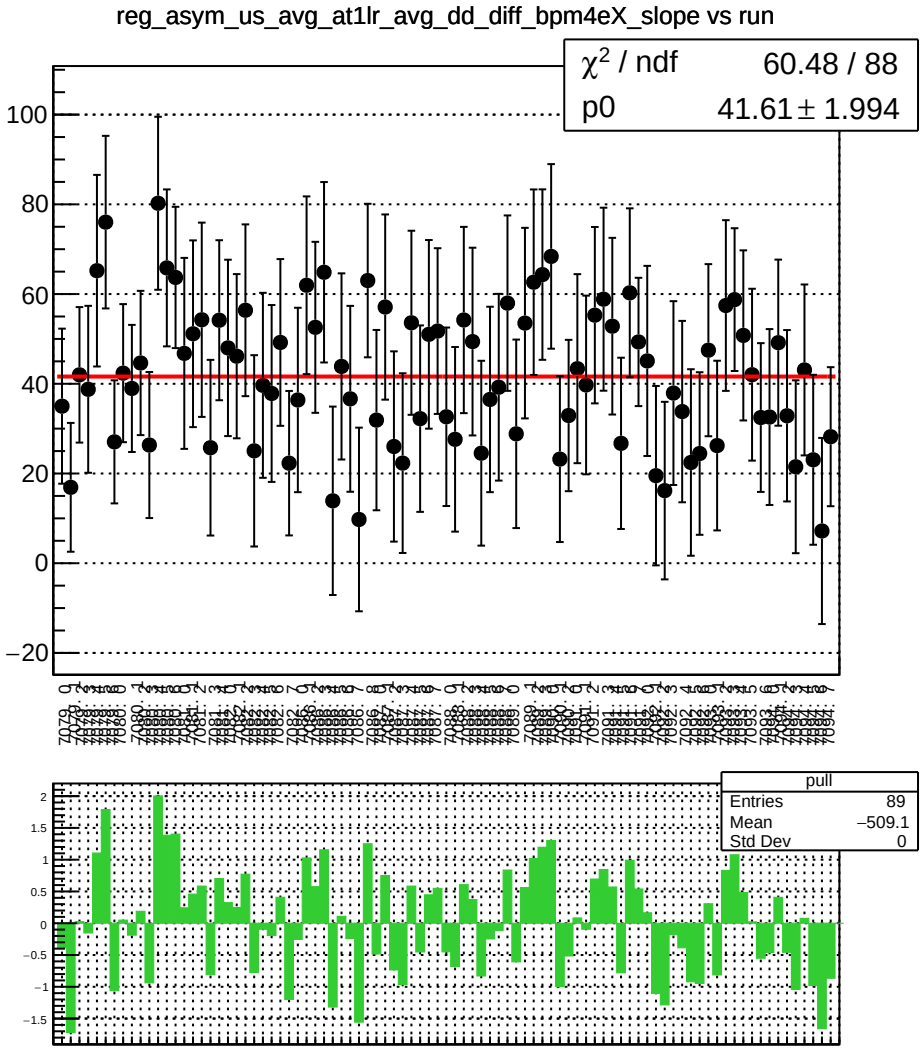

pull1D
Entries 89
Mean 0.01789
Std Dev 0.8123

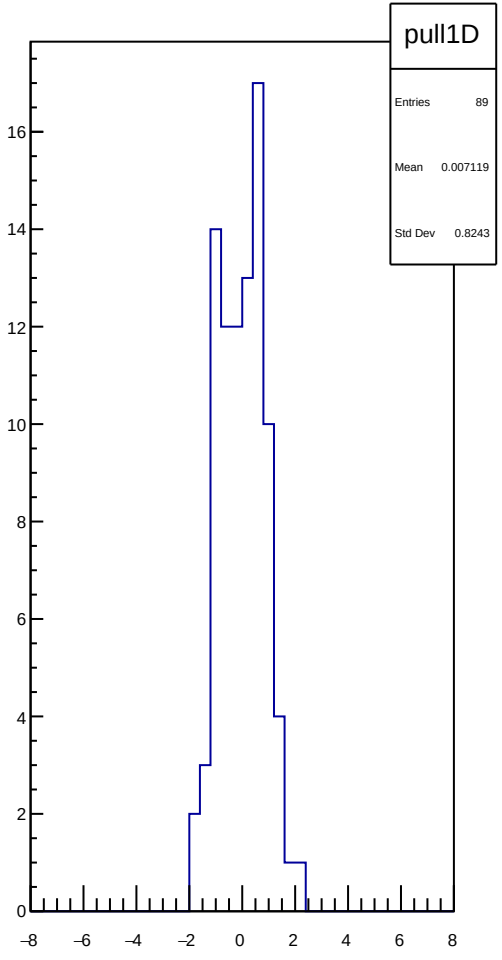

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 641.9 / 88
p0 −58.9 ± 0.1187
−52
−54
−56
−58
−60
−62
−64
−66
pull
Entries 89
Mean 893
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 89
Mean −0.05632
Std Dev 2.685
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

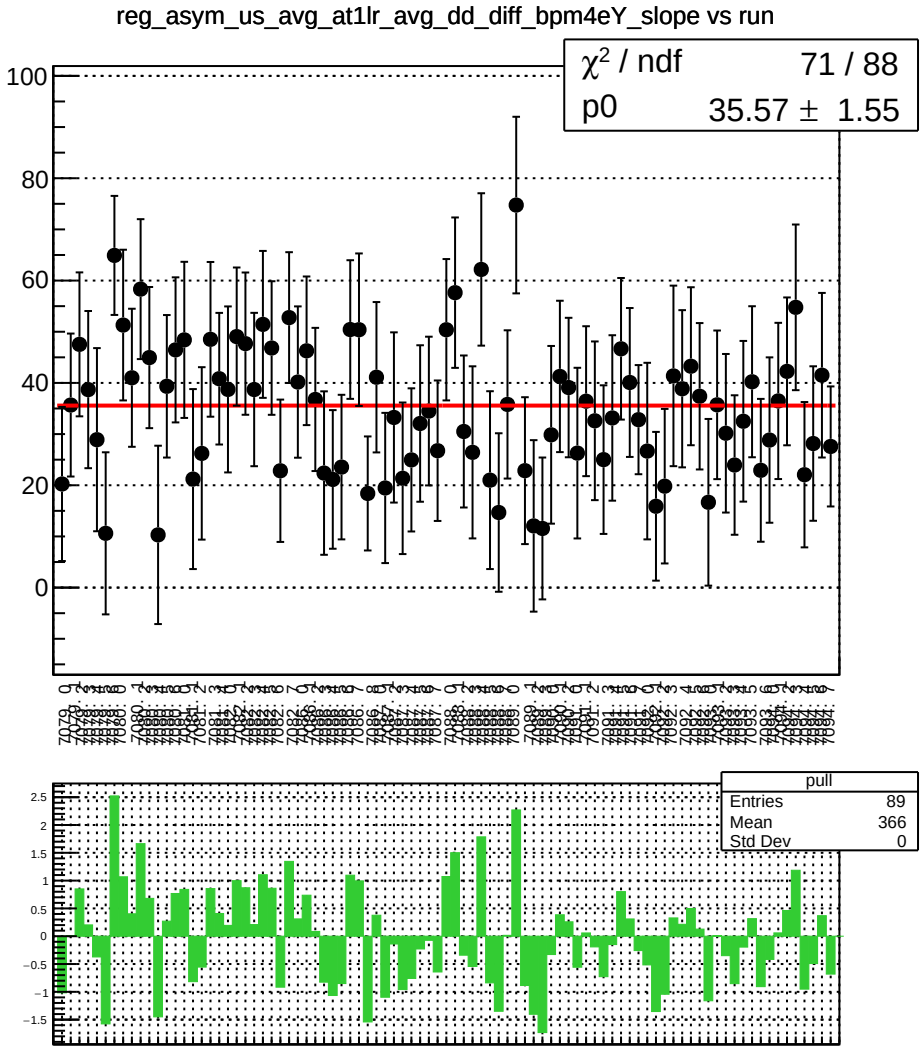

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 56.81 / 88
p0 −32.98 ± 2.07
pull
Entries 89
Mean −443.6
Std Dev 0
pull1D
Entries 89
Mean −0.006936
Std Dev 0.7989

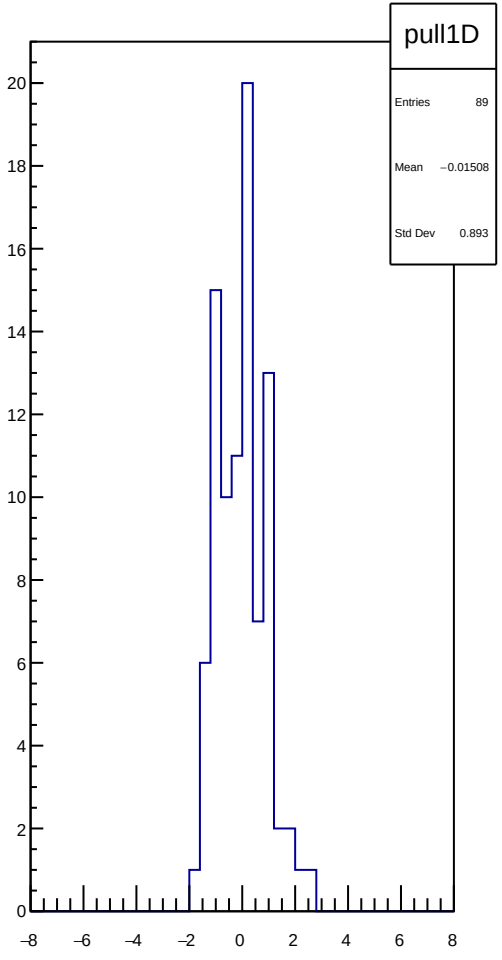

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.37 / 88
p0 −8.481 ± 1.477
pull
Entries 89
Mean 284.9
Std Dev 0

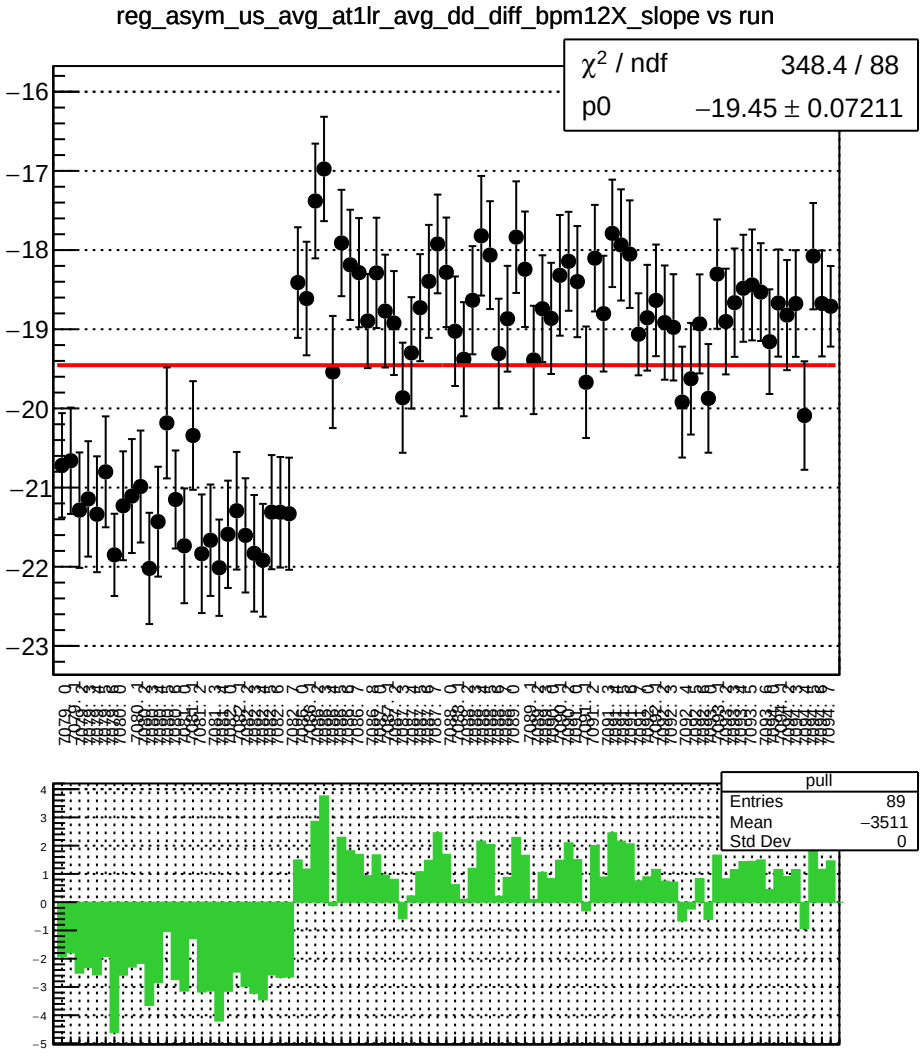

pull1D
Entries 89
Mean 0.01695
Std Dev 0.8763

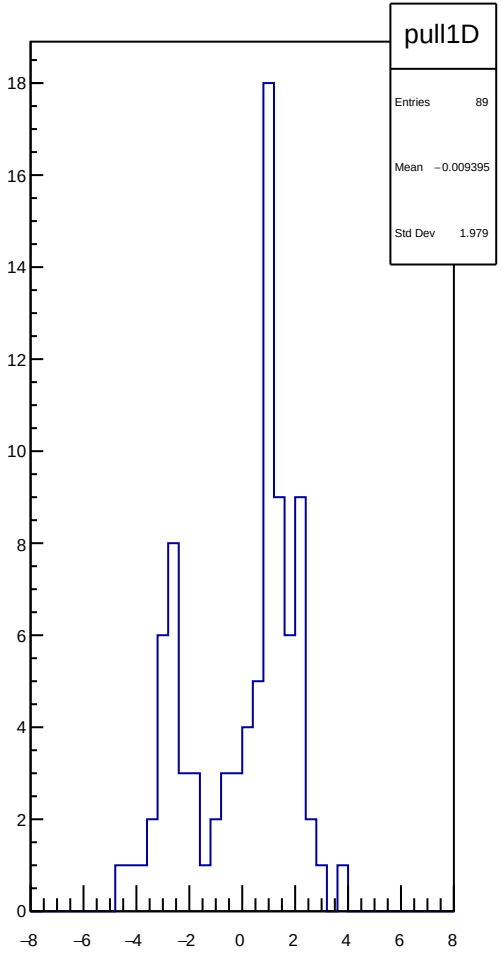

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.48 / 88
p0 41.61 ± 1.994
pull
Entries 89
Mean −509.1
Std Dev 0

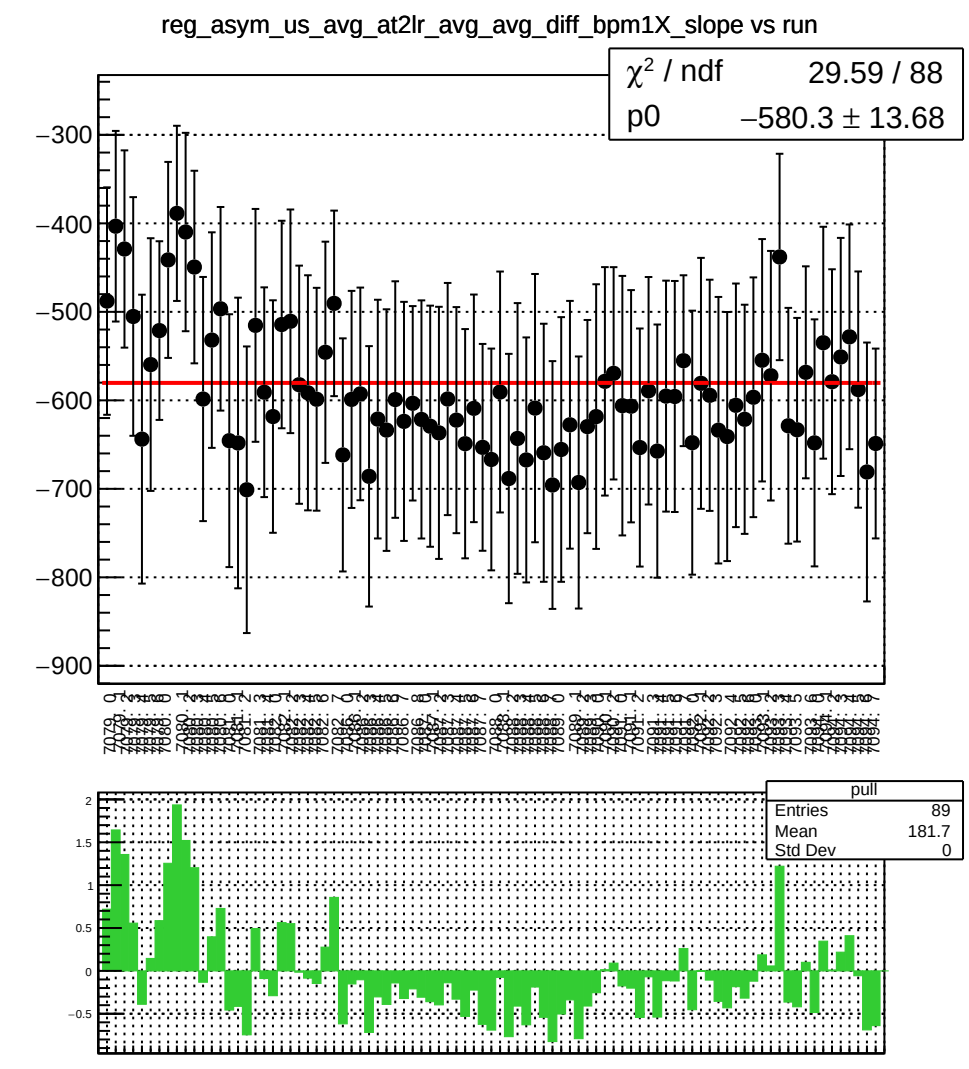

pull1D
Entries 89
Mean 0.007119
Std Dev 0.8243

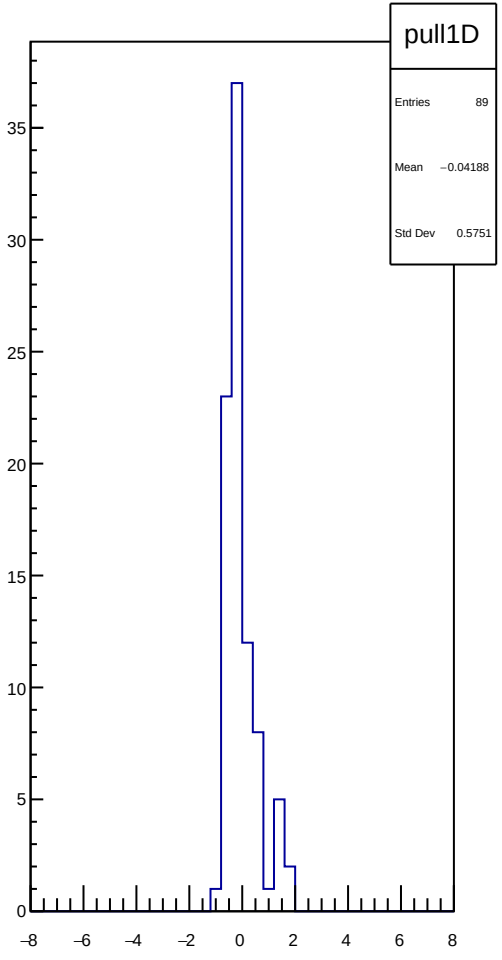

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 71 / 88
p0 35.57 ± 1.55
pull
Entries 89
Mean 366
Std Dev 0

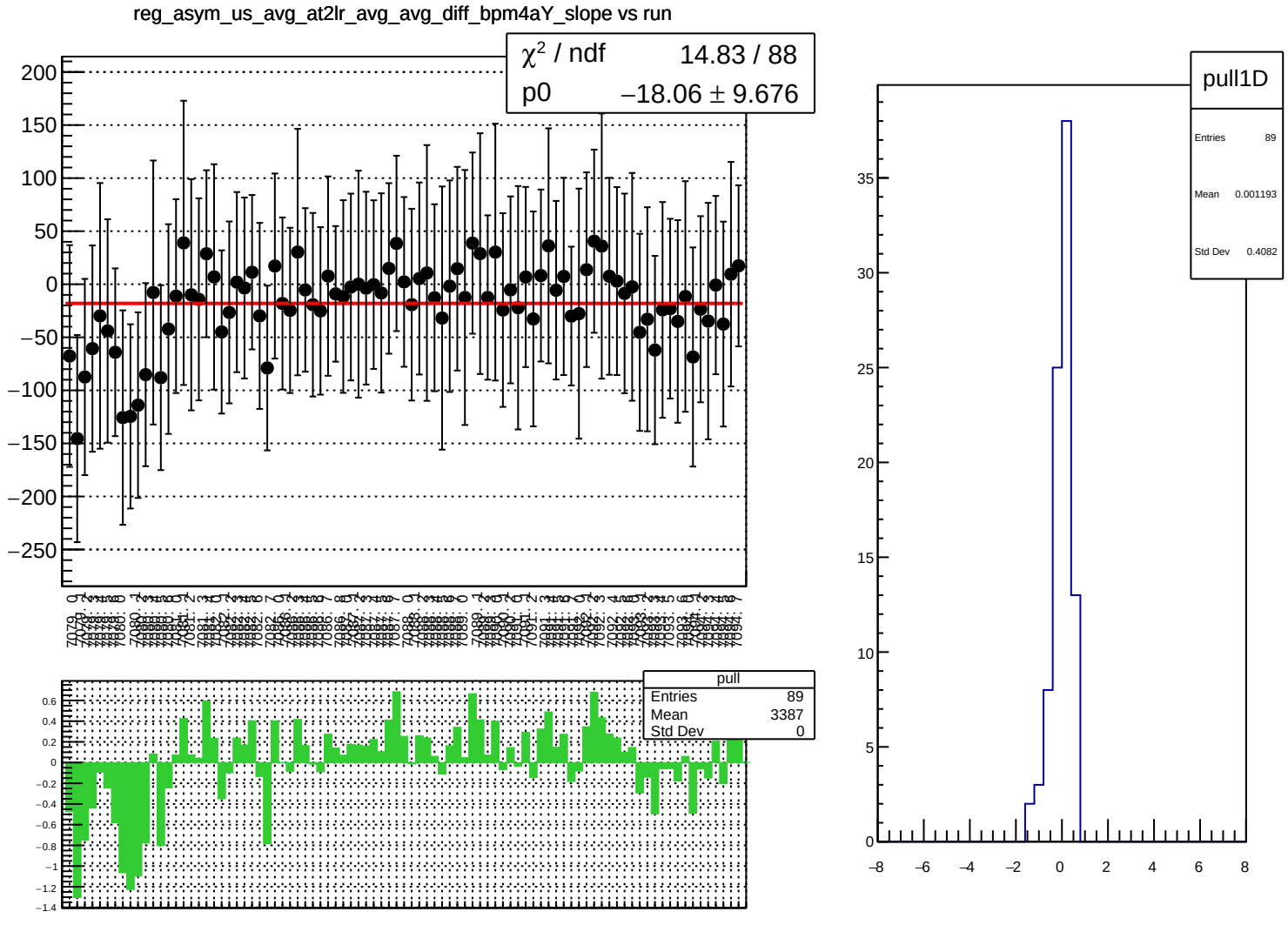

pull1D
Entries 89
Mean −0.01508
Std Dev 0.893

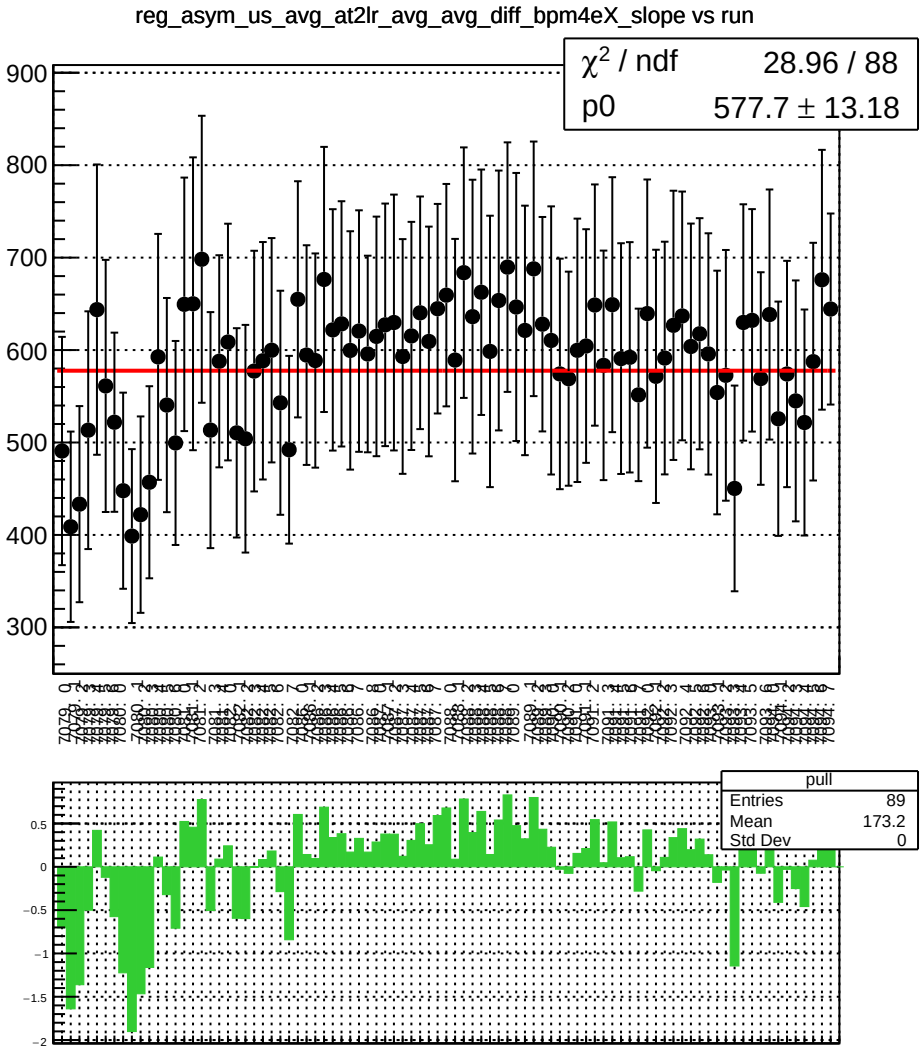

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 348.4 / 88
p0 −19.45 ± 0.07211
pull
Entries 89
Mean −3511
Std Dev 0

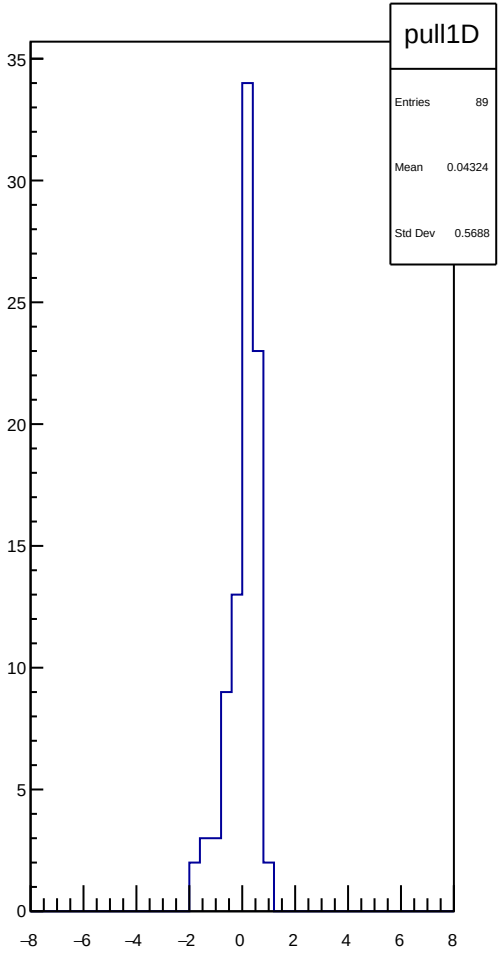

pull1D
Entries 89
Mean −0.009395
Std Dev 1.979

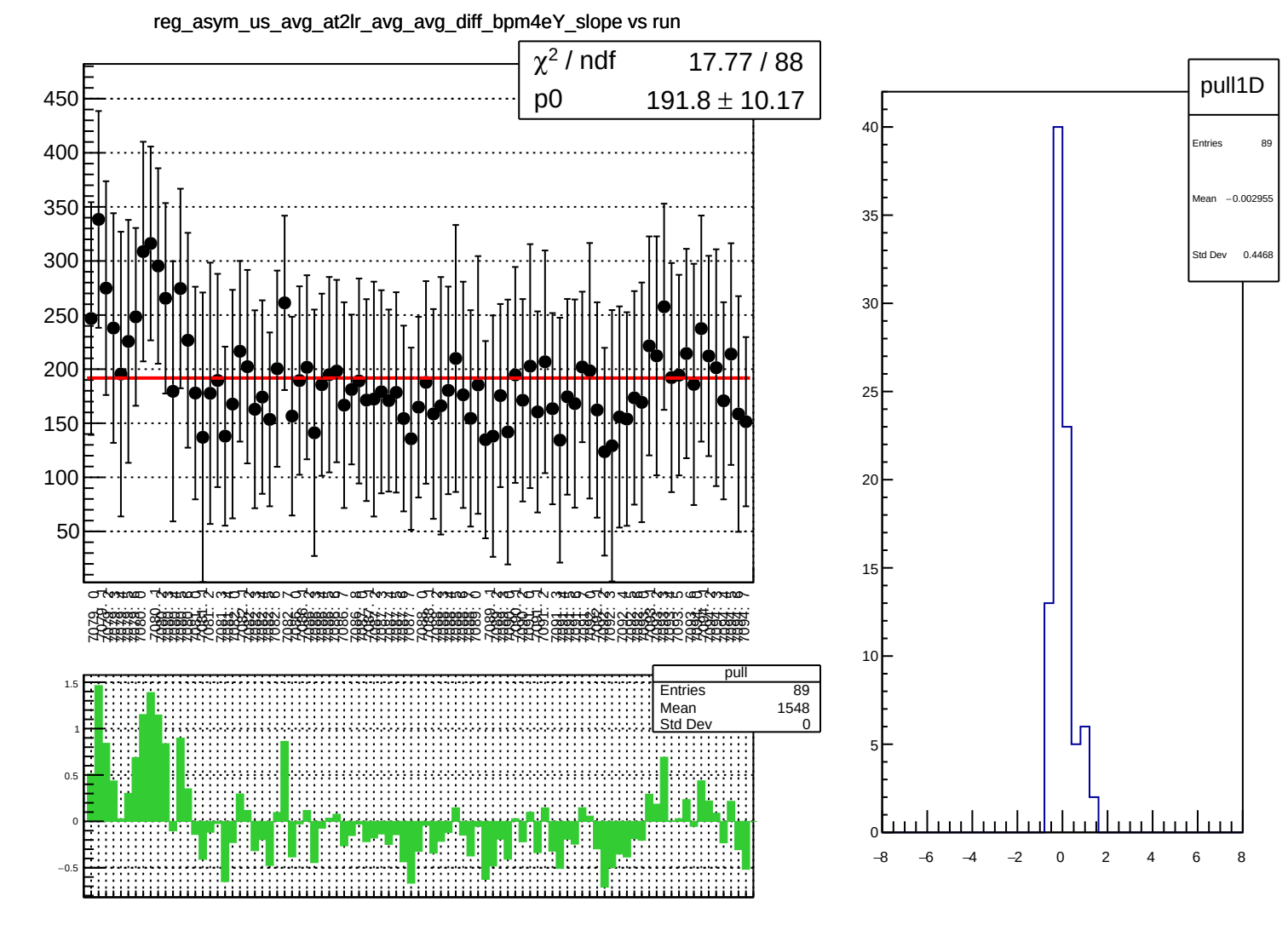

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 29.59 / 88
p0 −580.3 ± 13.68
pull
Entries 89
Mean 181.7
Std Dev 0

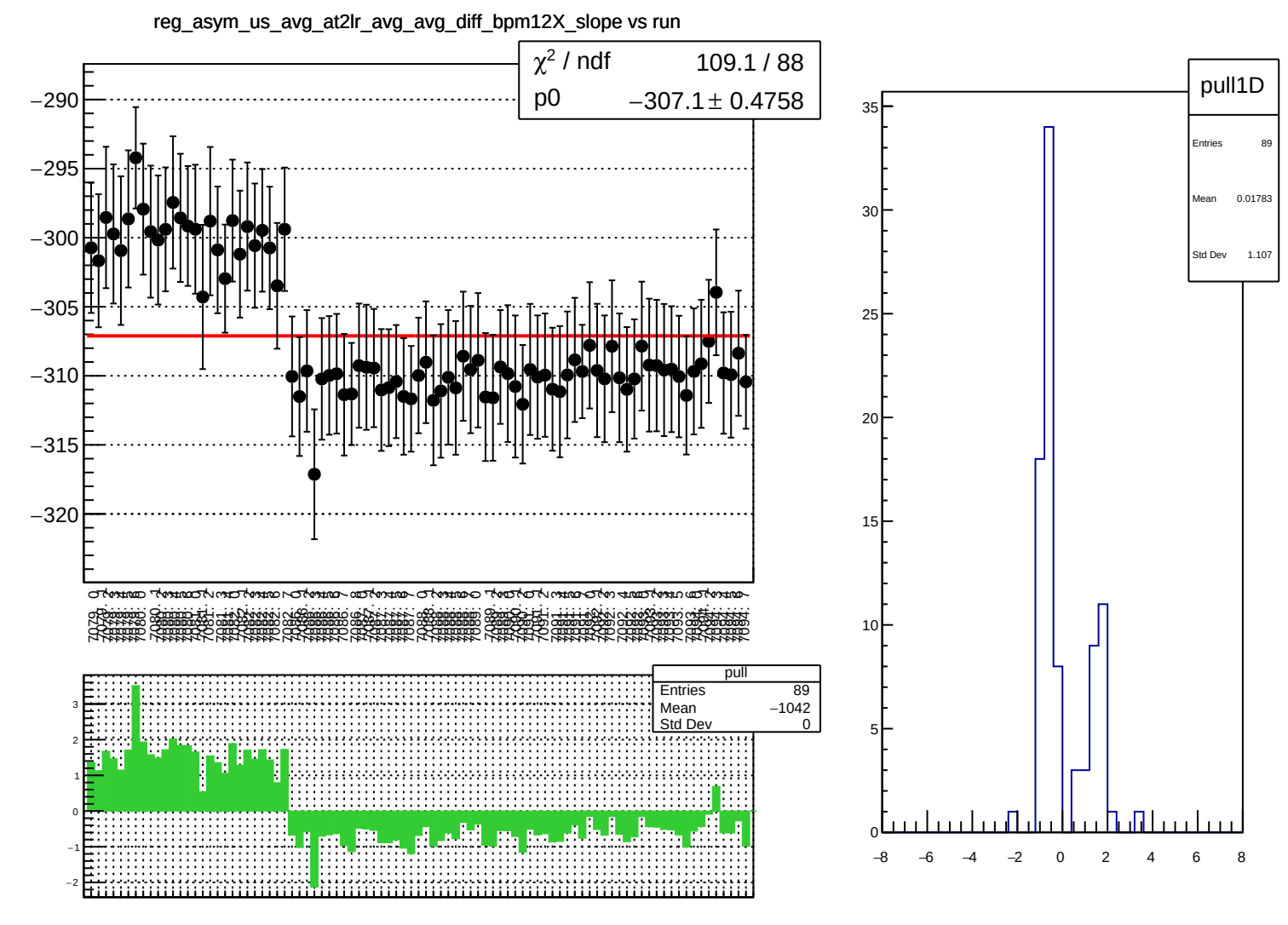

pull1D
Entries 89
Mean −0.04188
Std Dev 0.5751

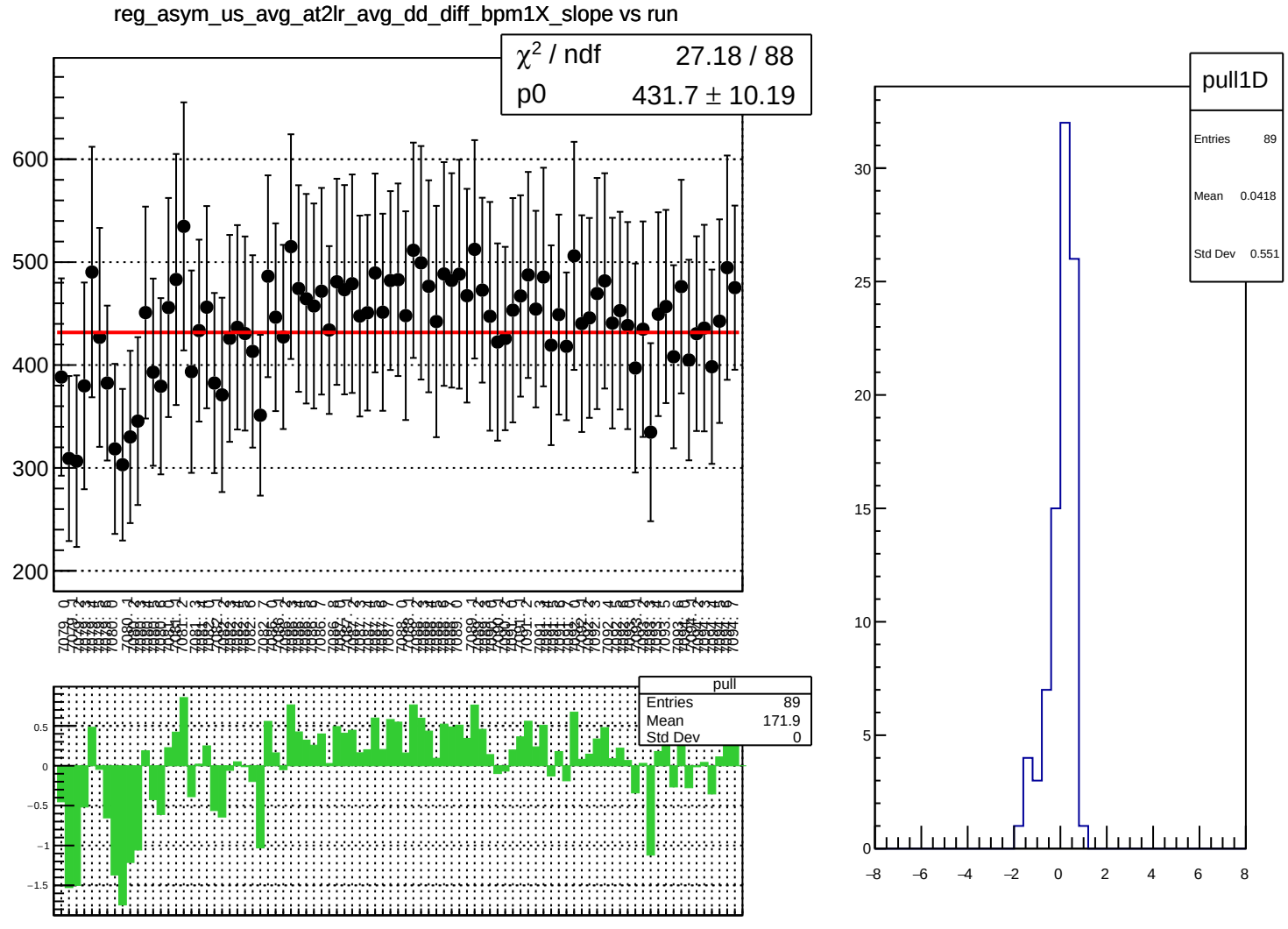

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.83 / 88
p0 −18.06 ± 9.676
pull
Entries 89
Mean 3387
Std Dev 0
pull1D
Entries 89
Mean 0.001193
Std Dev 0.4082

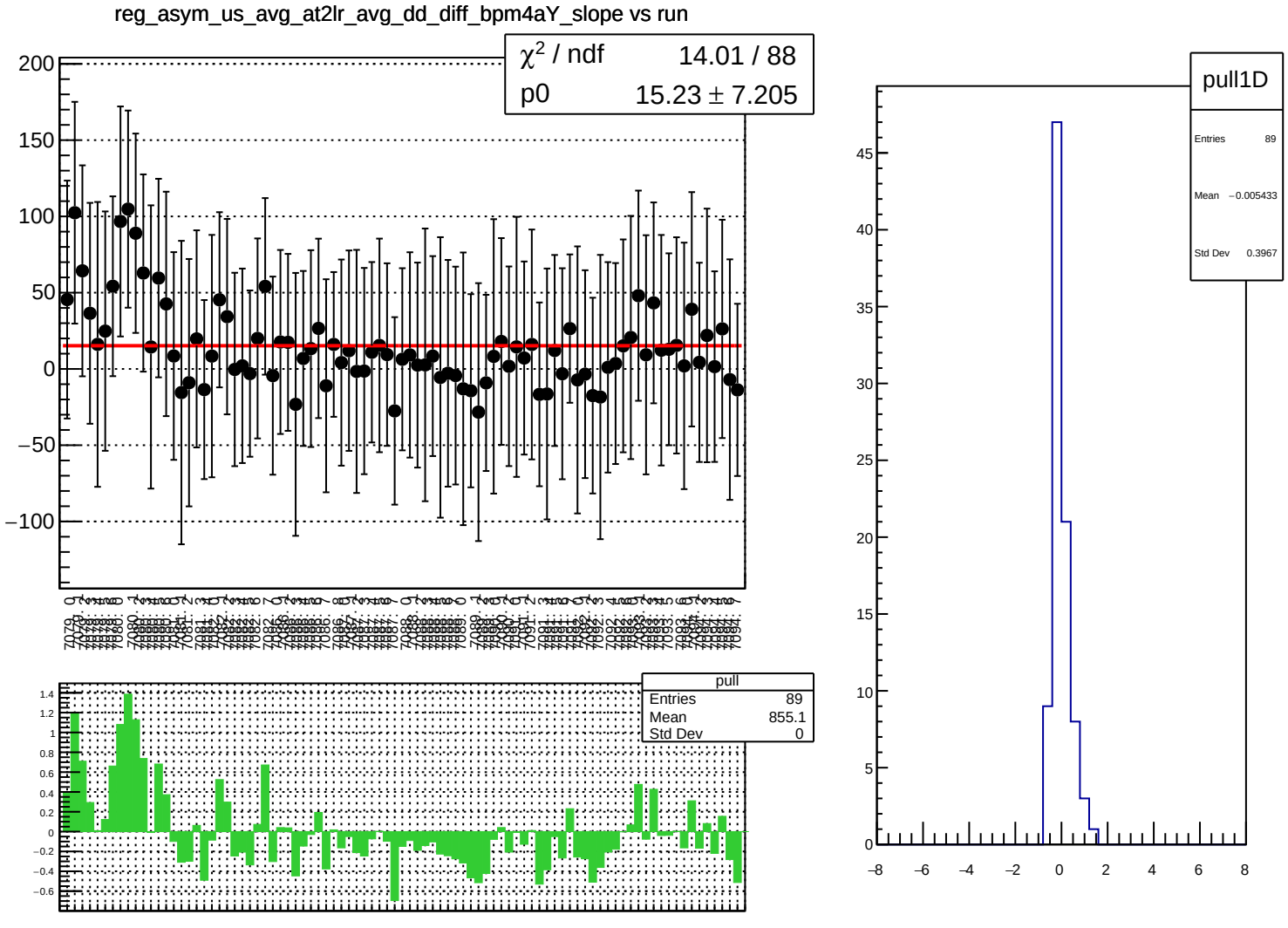

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.96 / 88
p0 577.7 ± 13.18
900
800
700
600
500
400
300
pull
Entries 89
Mean 173.2
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2

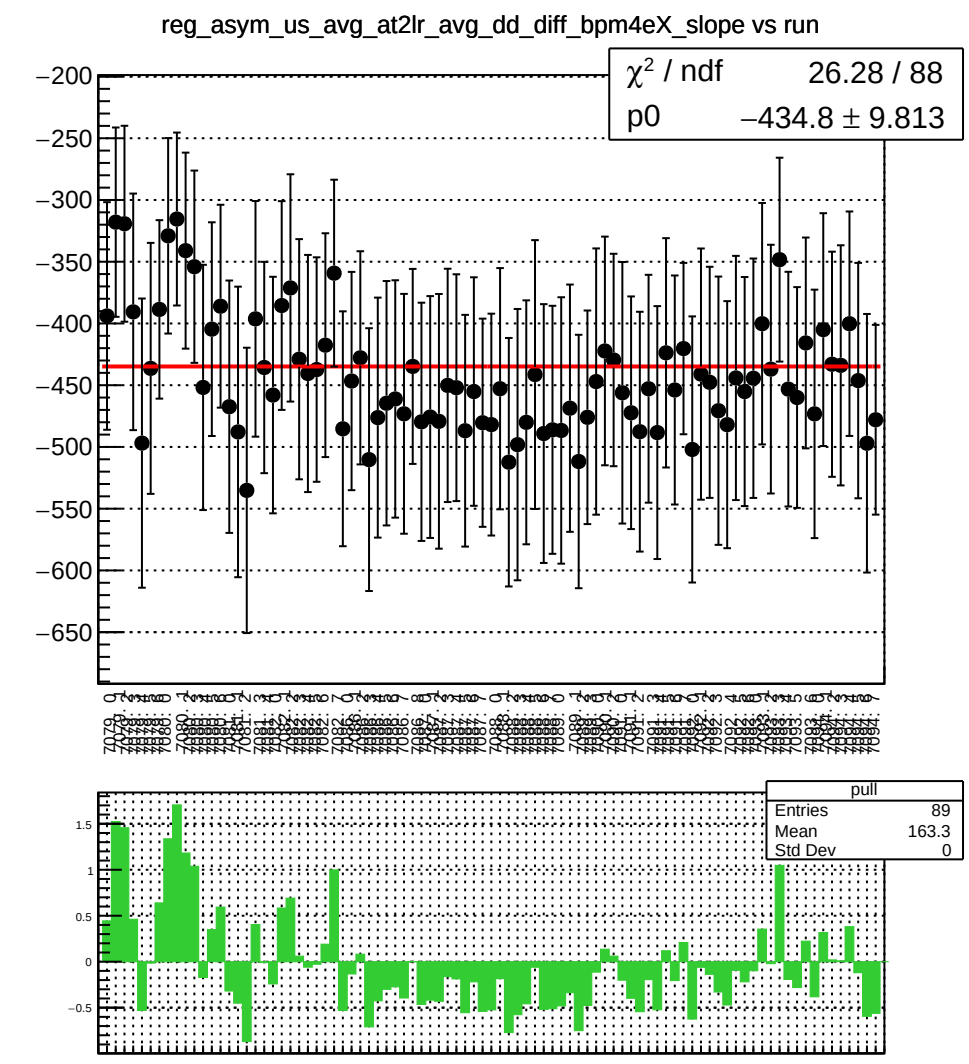

pull1D
Entries 89
Mean 0.04324
Std Dev 0.5688
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

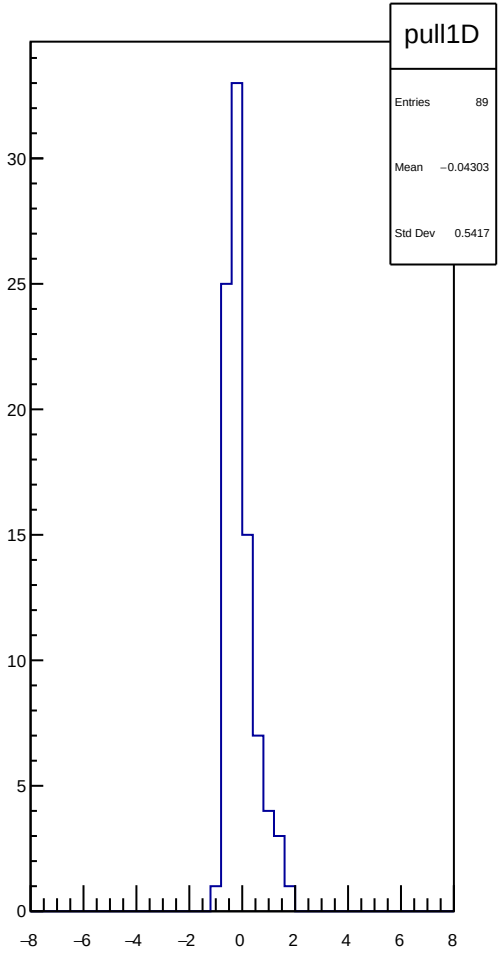

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.77 / 88
p0 191.8 ± 10.17
pull
Entries 89
Mean 1548
Std Dev 0
pull1D
Entries 89
Mean −0.002955
Std Dev 0.4468

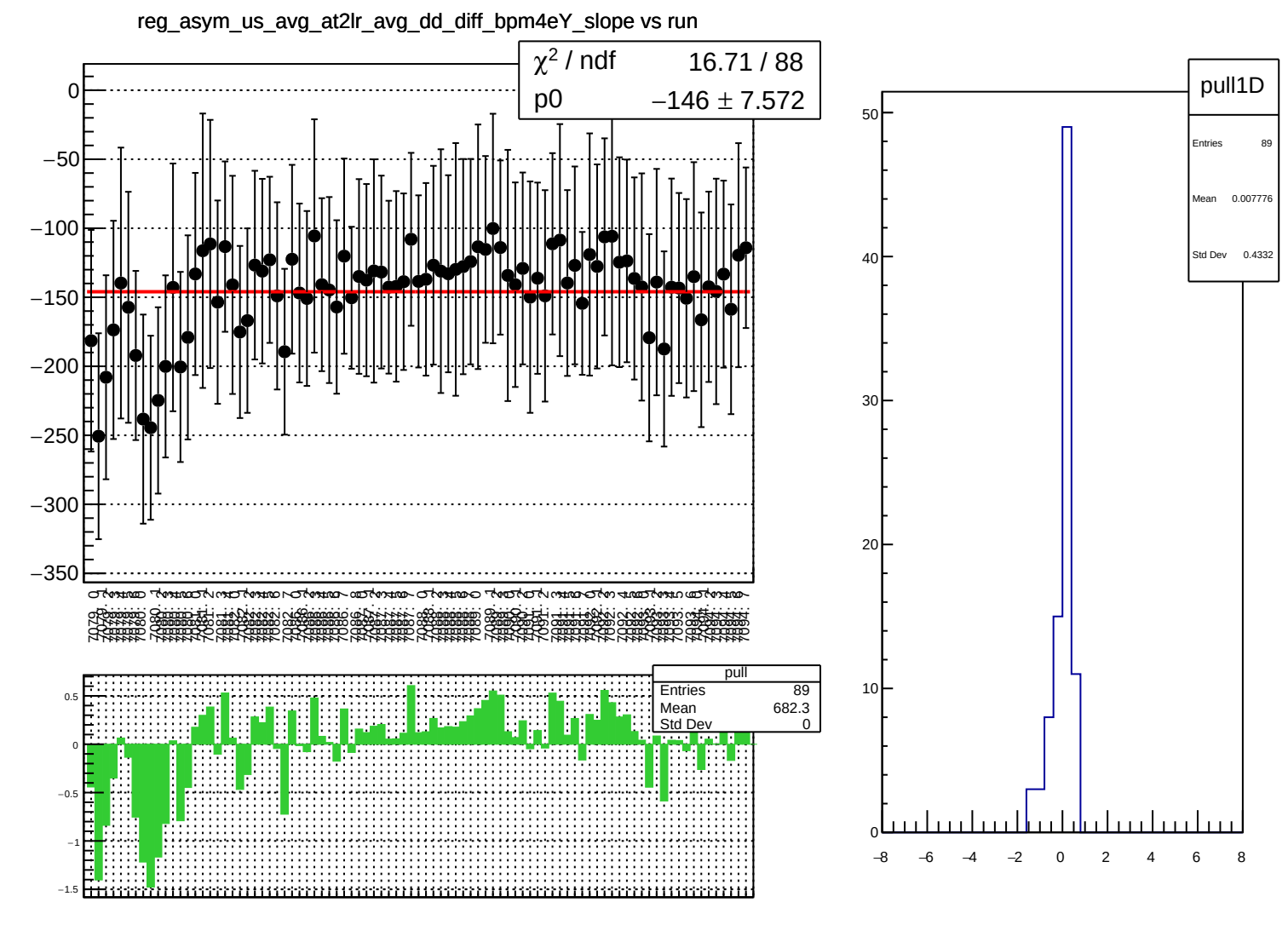

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 109.1 / 88
p0 −307.1 ± 0.4758
pull
Entries 89
Mean −1042
Std Dev 0
pull1D
Entries 89
Mean 0.01783
Std Dev 1.107

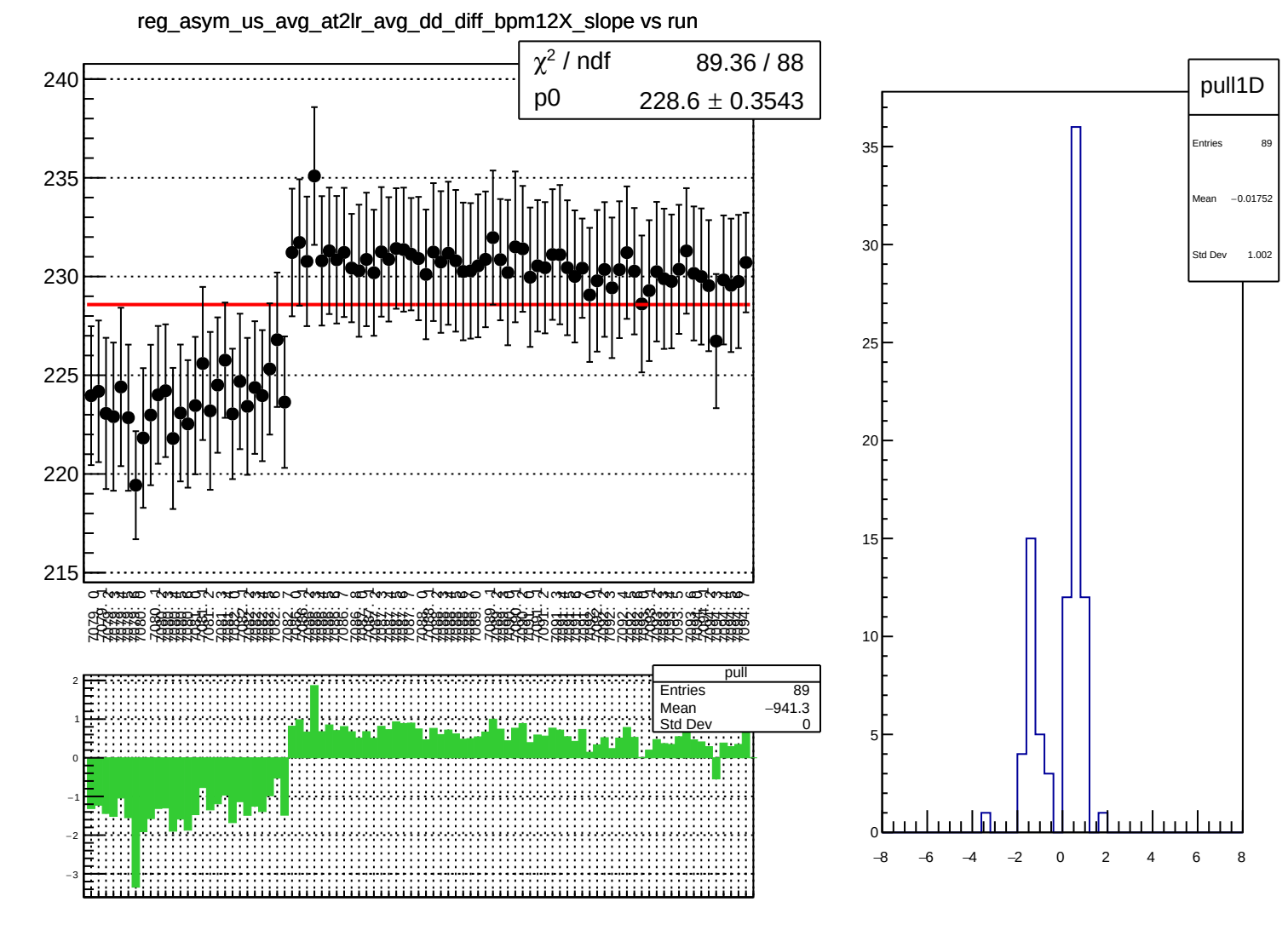

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 27.18 / 88
p0 431.7 ± 10.19
600
500
400
300
200
pull
Entries 89
Mean 171.9
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.0418
Std Dev 0.551
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

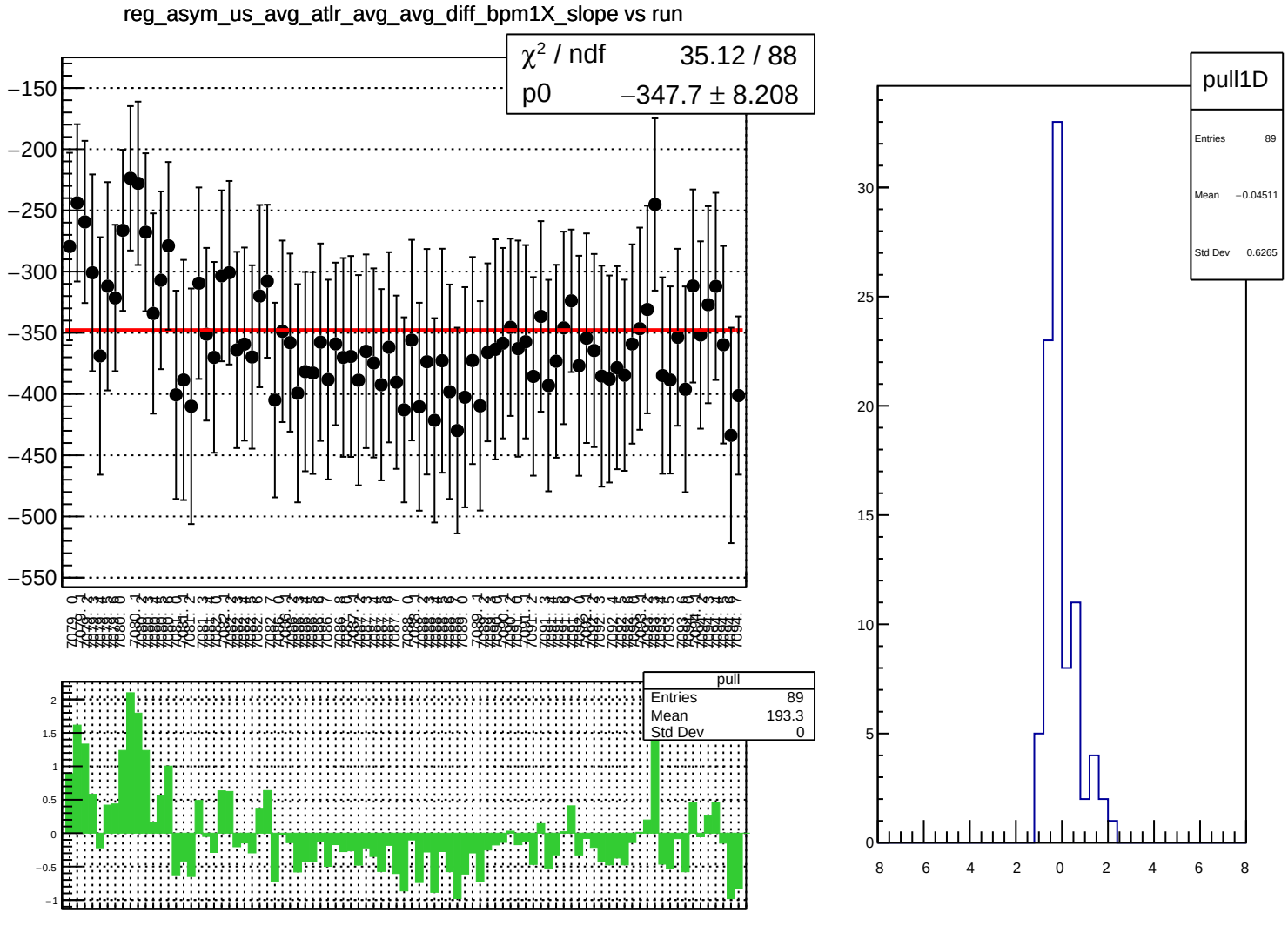

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.01 / 88
p0 15.23 ± 7.205
pull
Entries 89
Mean 855.1
Std Dev 0
pull1D
Entries 89
Mean −0.005433
Std Dev 0.3967

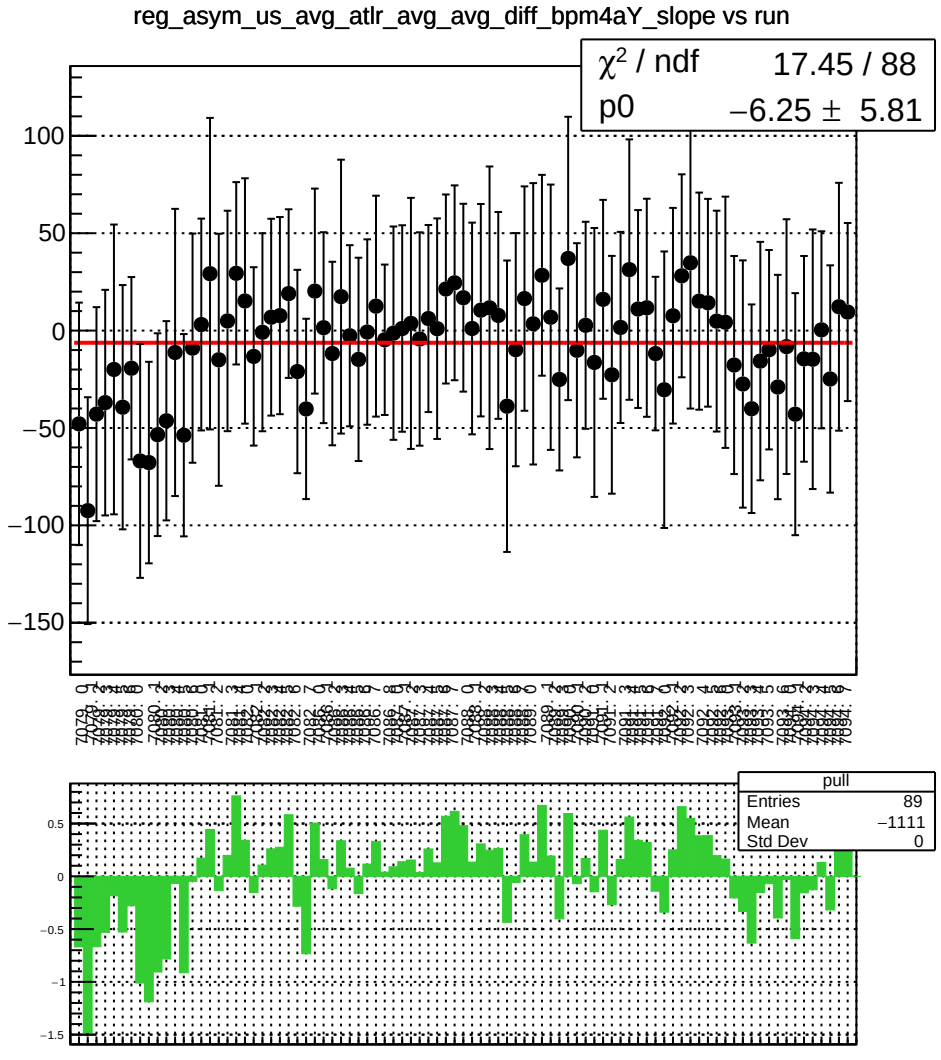

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.28 / 88
p0 −434.8 ± 9.813
pull
Entries 89
Mean 163.3
Std Dev 0

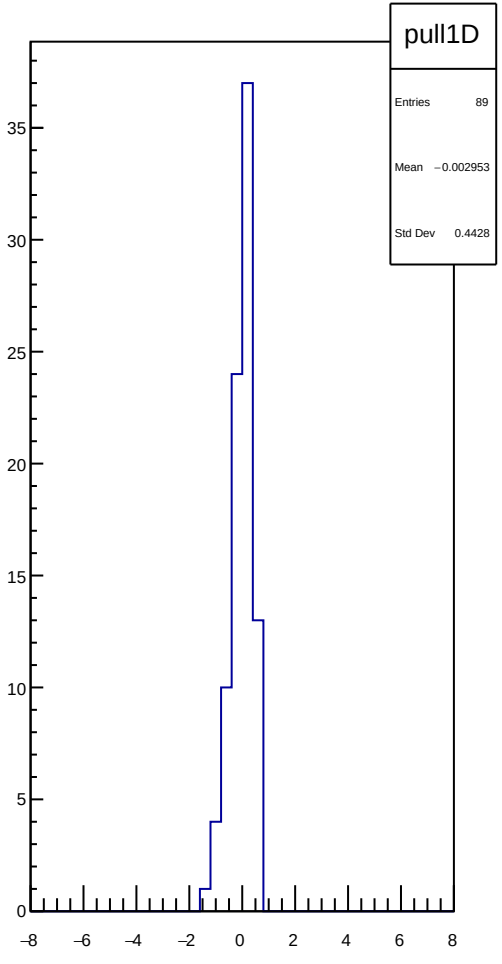

pull1D
Entries 89
Mean −0.04303
Std Dev 0.5417

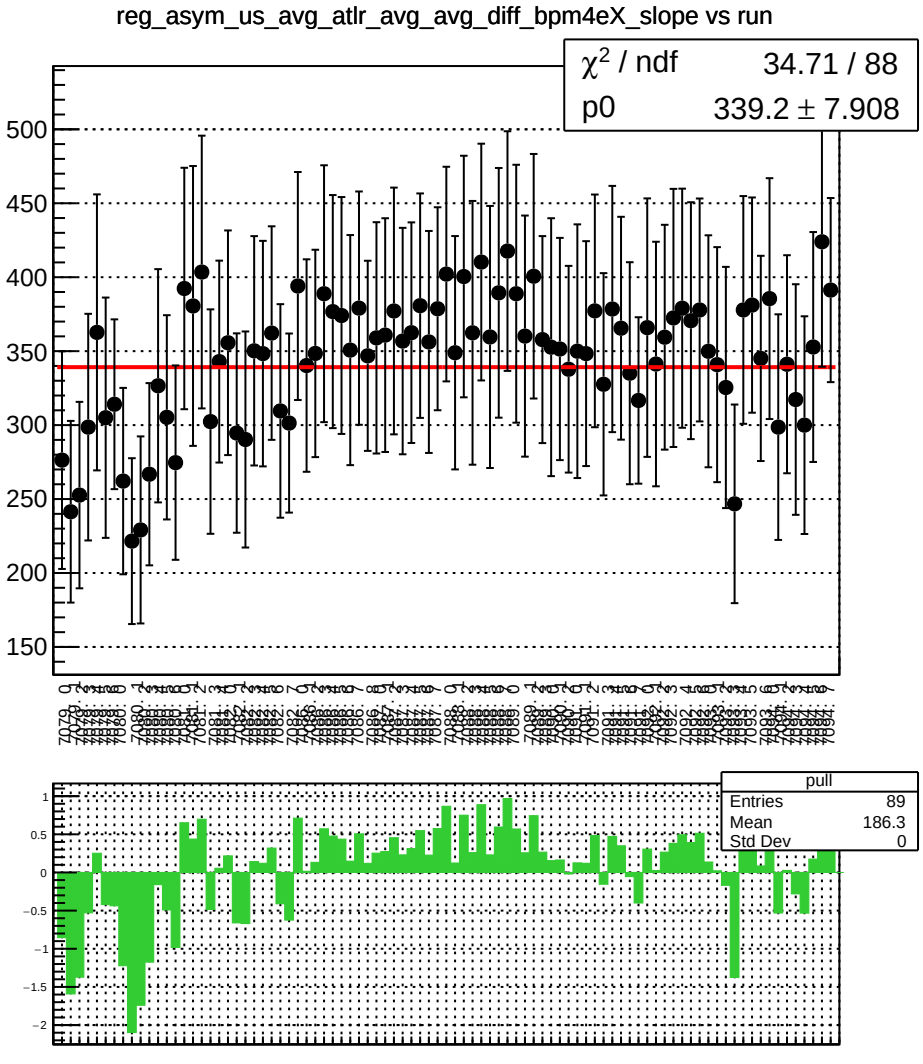

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.71 / 88
p0 −146 ± 7.572
pull
Entries 89
Mean 682.3
Std Dev 0
pull1D
Entries 89
Mean 0.007776
Std Dev 0.4332

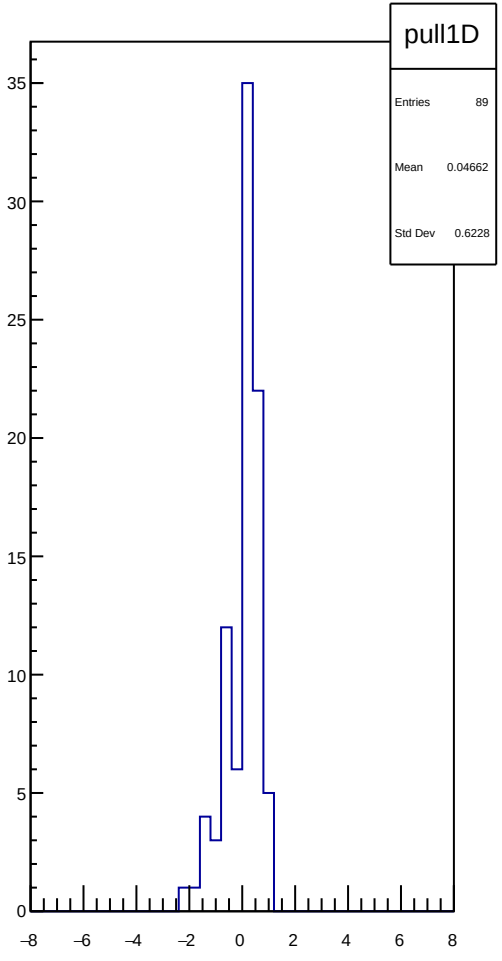

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 89.36 / 88
p0 228.6 ± 0.3543
240
235
230
225
220
215
pull
Entries 89
Mean −941.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01752
Std Dev 1.002
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

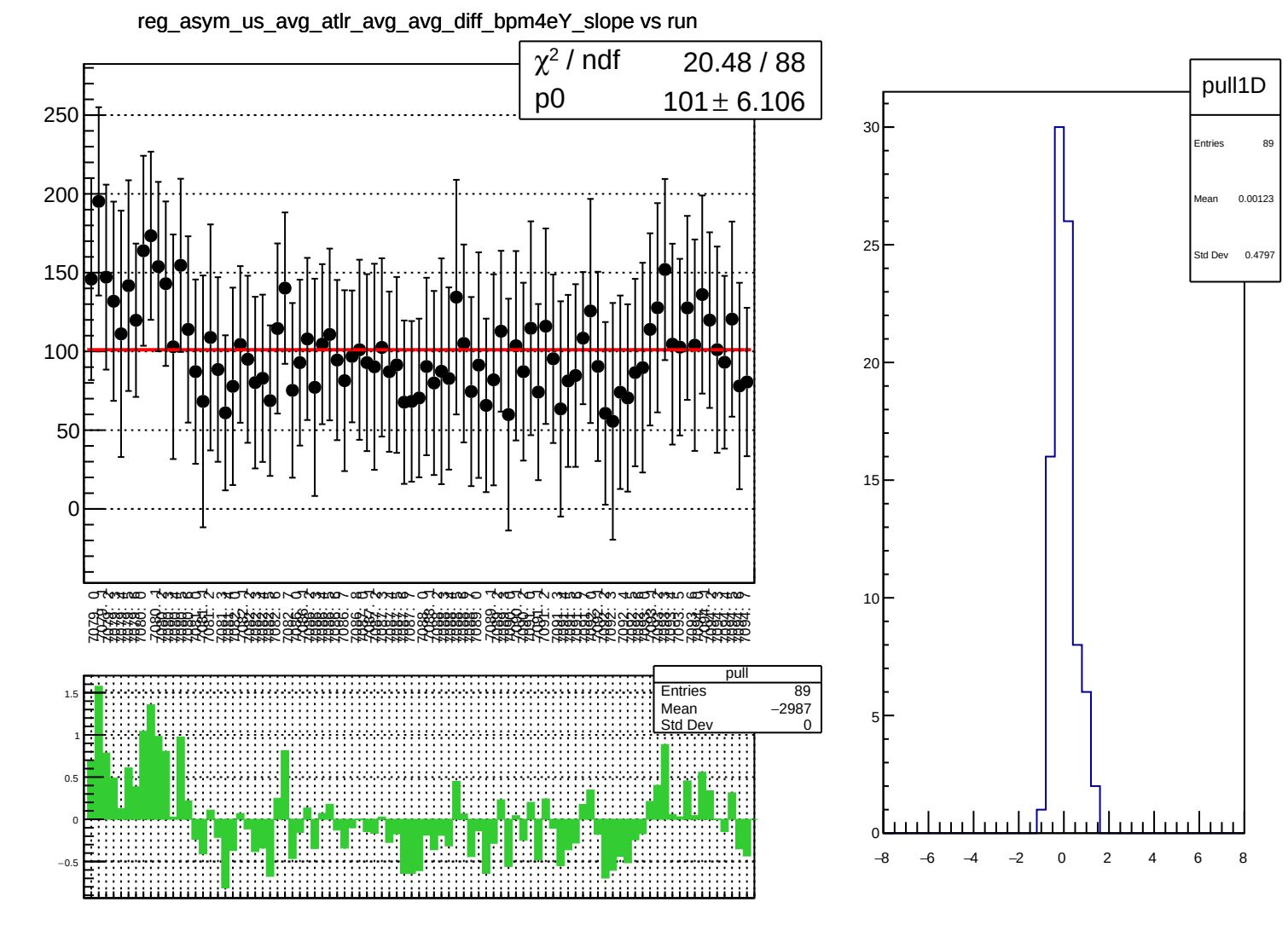

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 35.12 / 88
p0 −347.7 ± 8.208
pull
Entries 89
Mean 193.3
Std Dev 0
pull1D
Entries 89
Mean −0.04511
Std Dev 0.6265

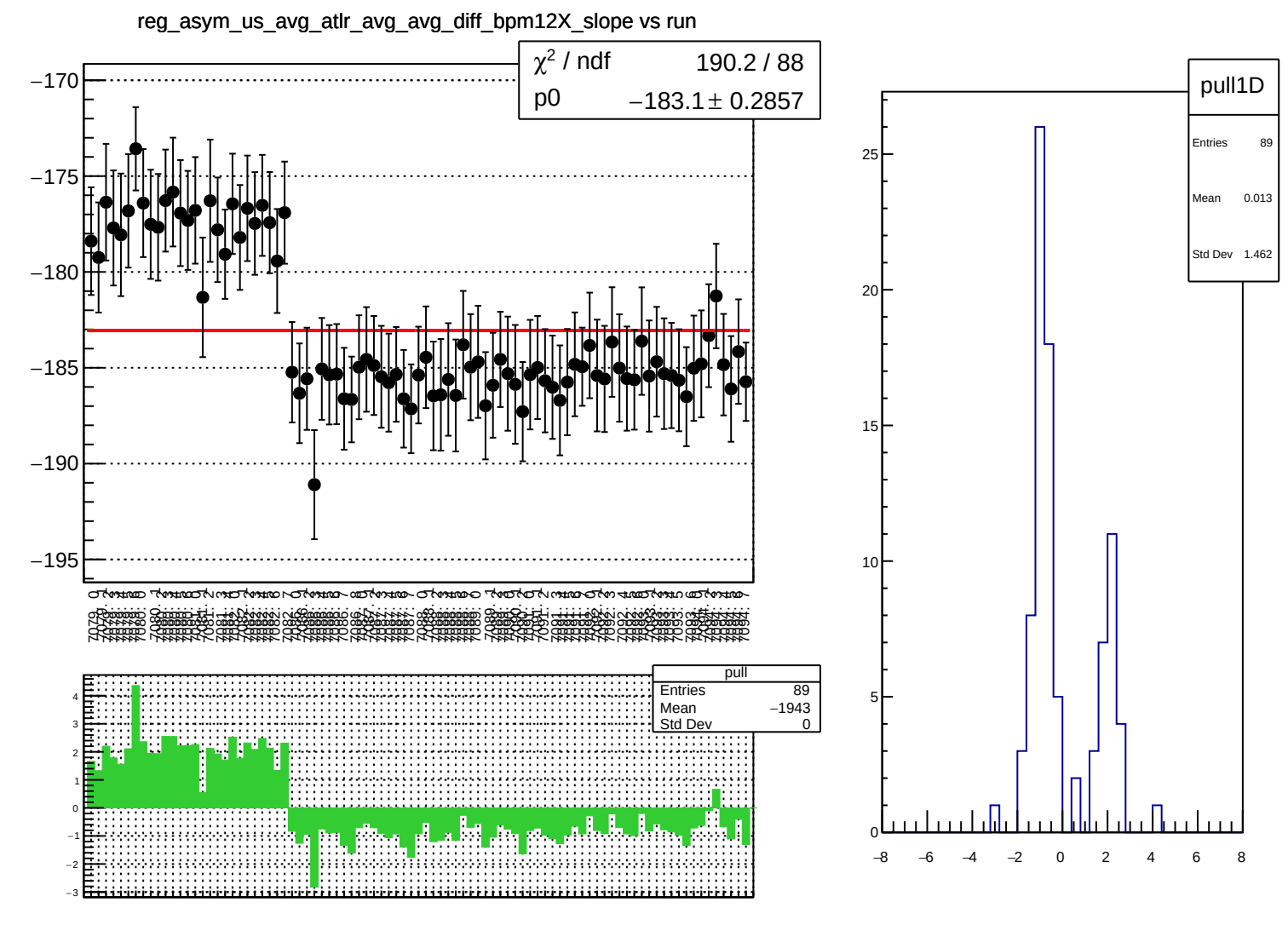

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.45 / 88
p0 −6.25 ± 5.81
pull
Entries 89
Mean −1111
Std Dev 0

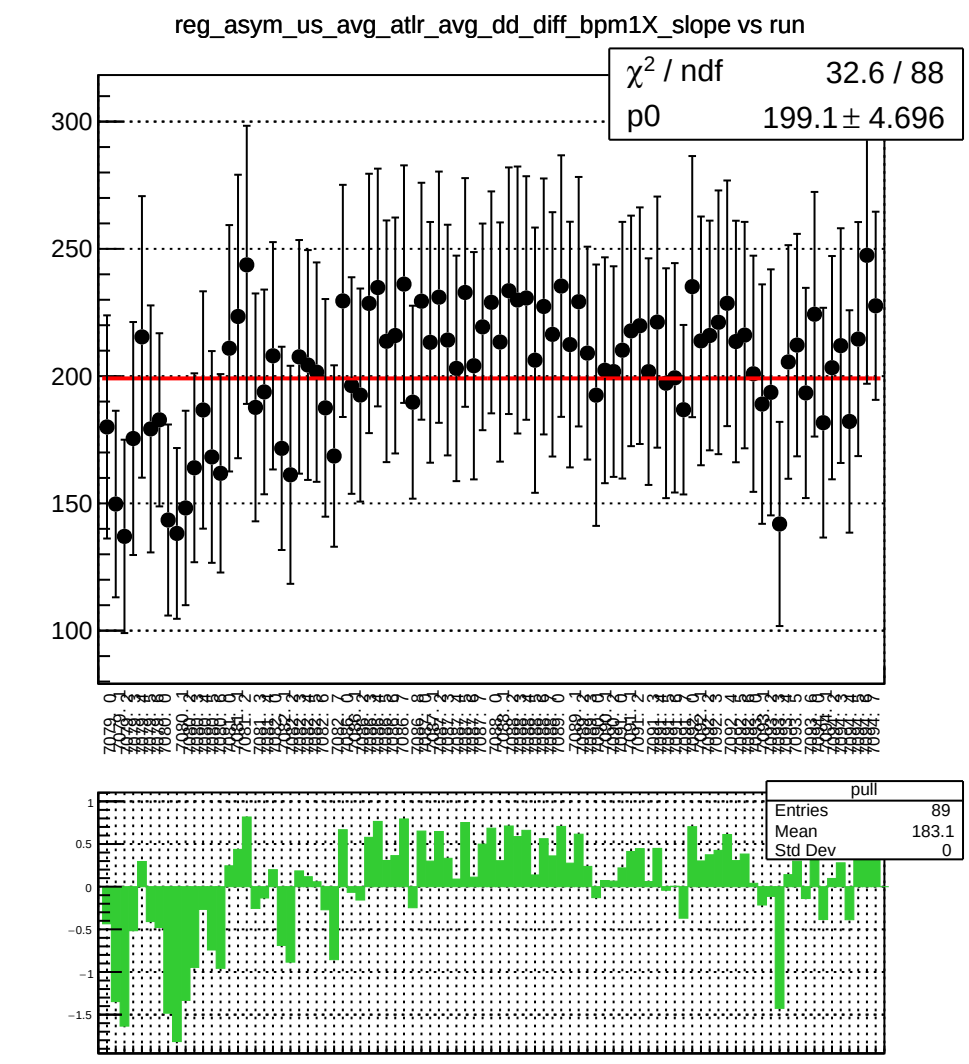

pull1D
Entries 89
Mean −0.002953
Std Dev 0.4428

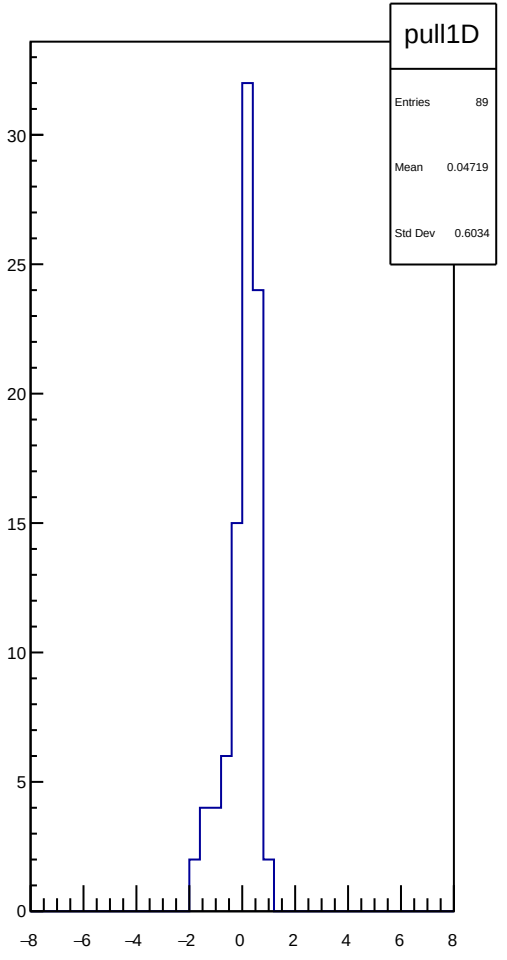

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.71 / 88
p0 339.2 ± 7.908
pull
Entries 89
Mean 186.3
Std Dev 0

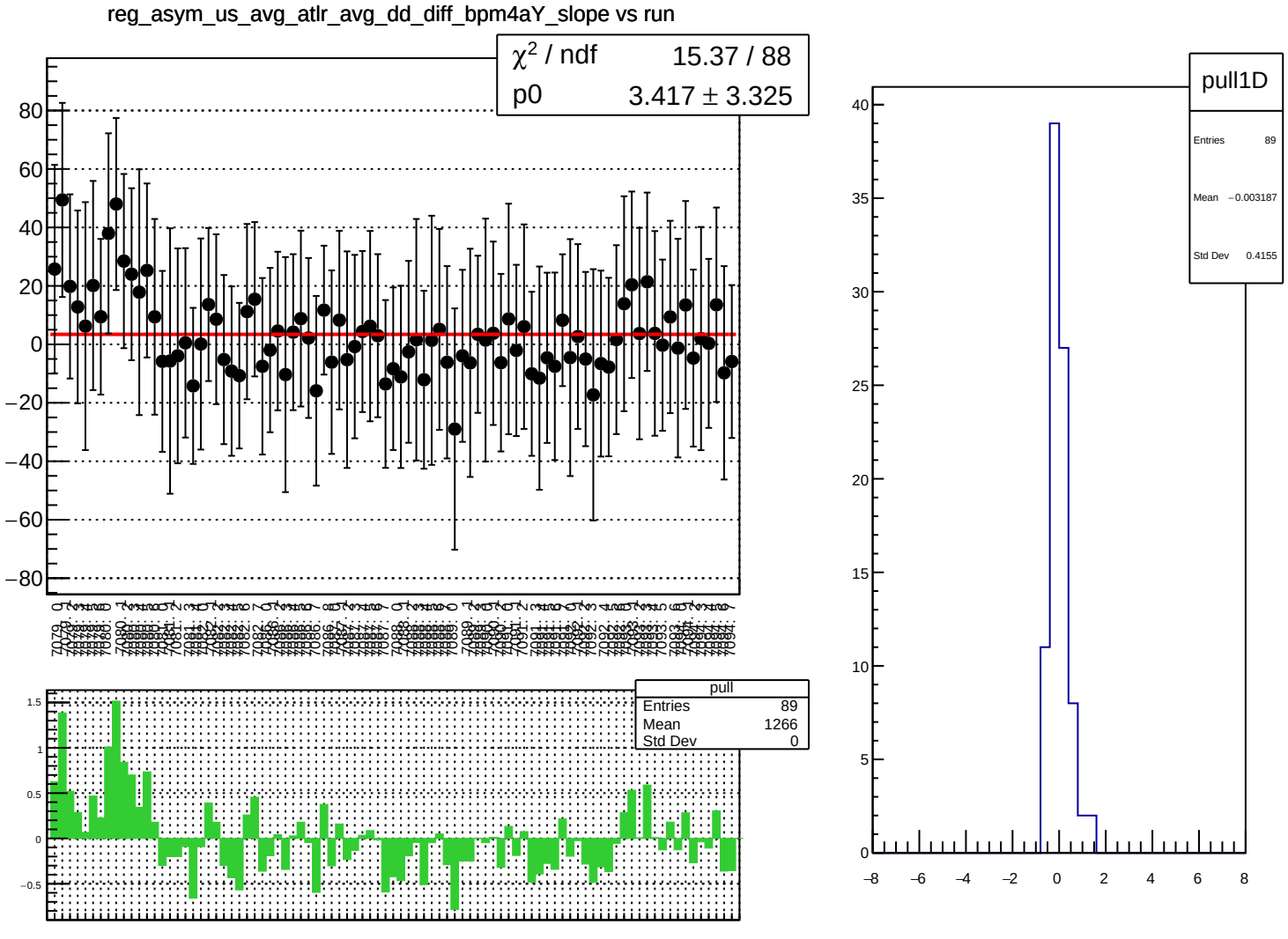

pull1D
Entries 89
Mean 0.04662
Std Dev 0.6228

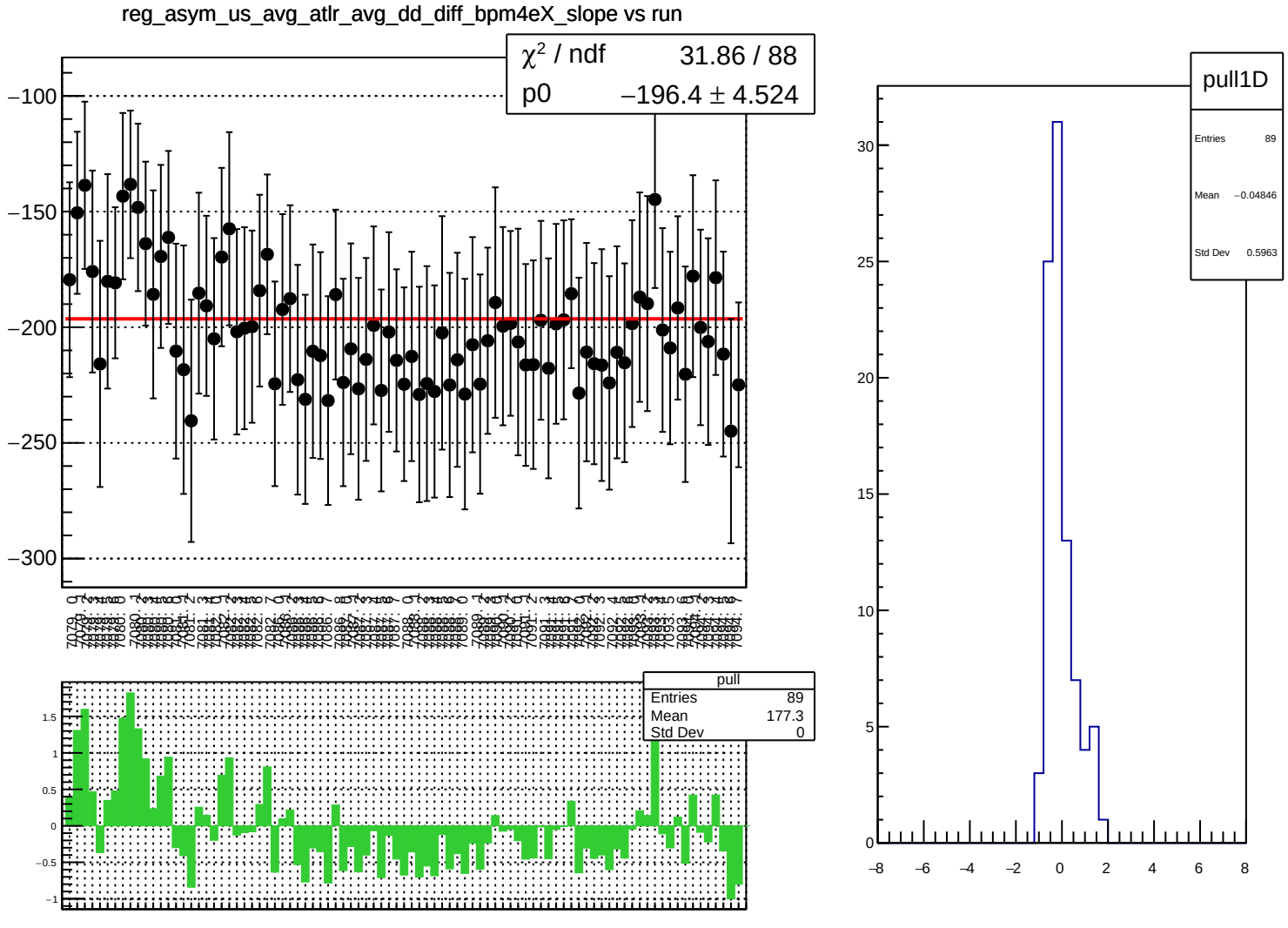

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.48 / 88
p0 101 ± 6.106
250
200
150
100
50
0
pull
Entries 89
Mean −2987
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean 0.00123
Std Dev 0.4797
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

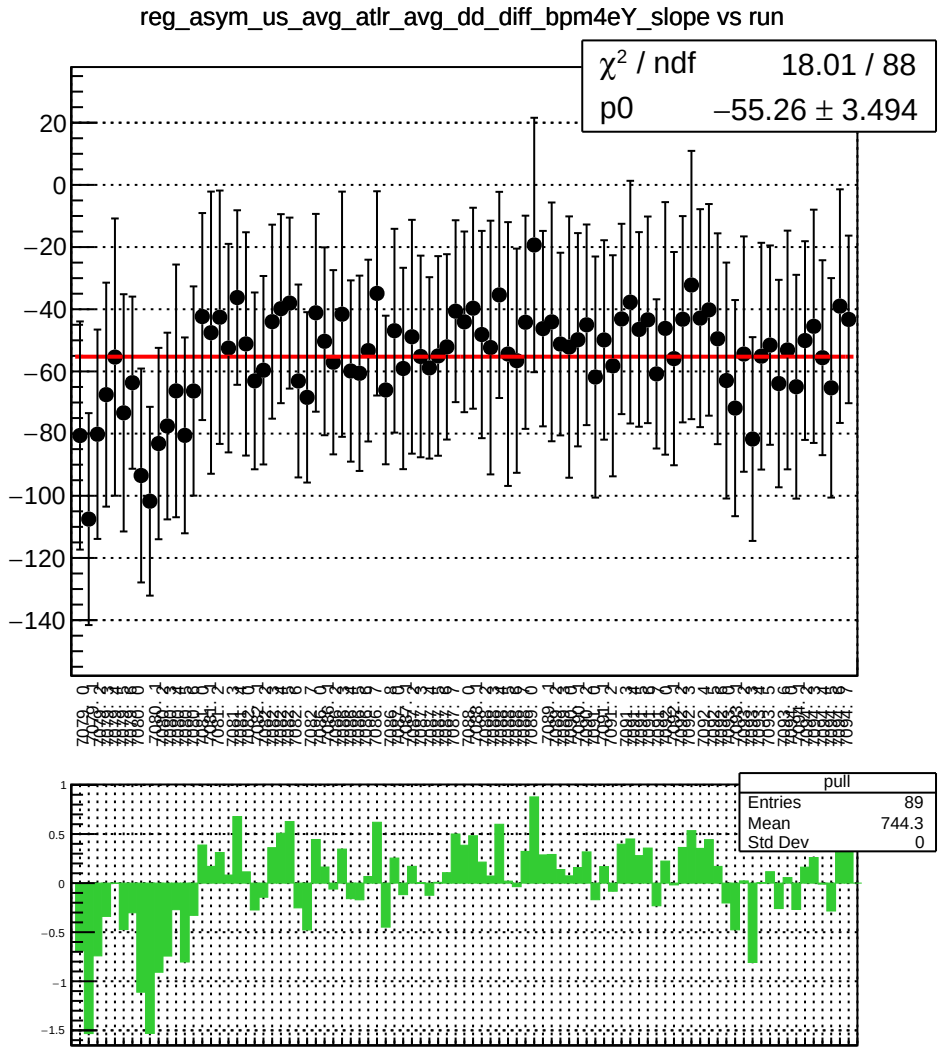

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 190.2 / 88
p0 −183.1 ± 0.2857
−170
−175
−180
−185
−190
−195
pull
Entries 89
Mean −1943
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.013
Std Dev 1.462
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

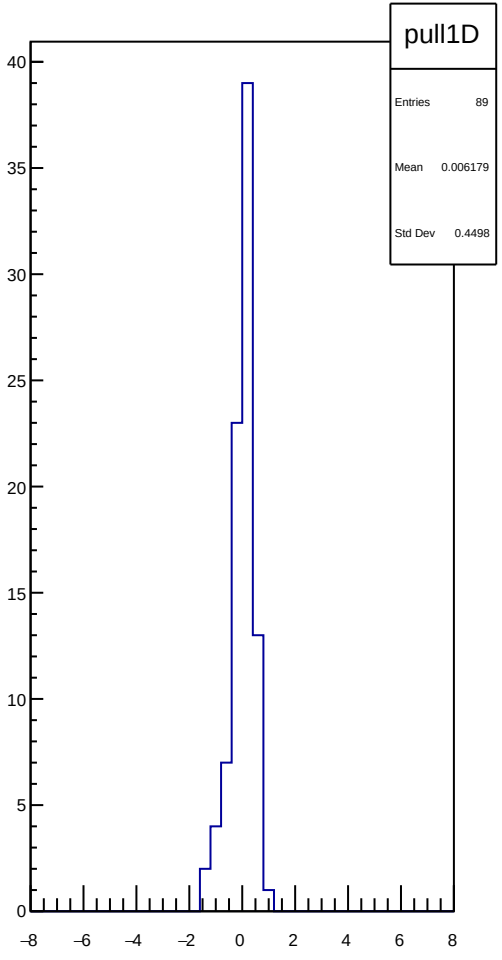

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 32.6 / 88
p0 199.1 ± 4.696
300
250
200
150
100
pull
Entries 89
Mean 183.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

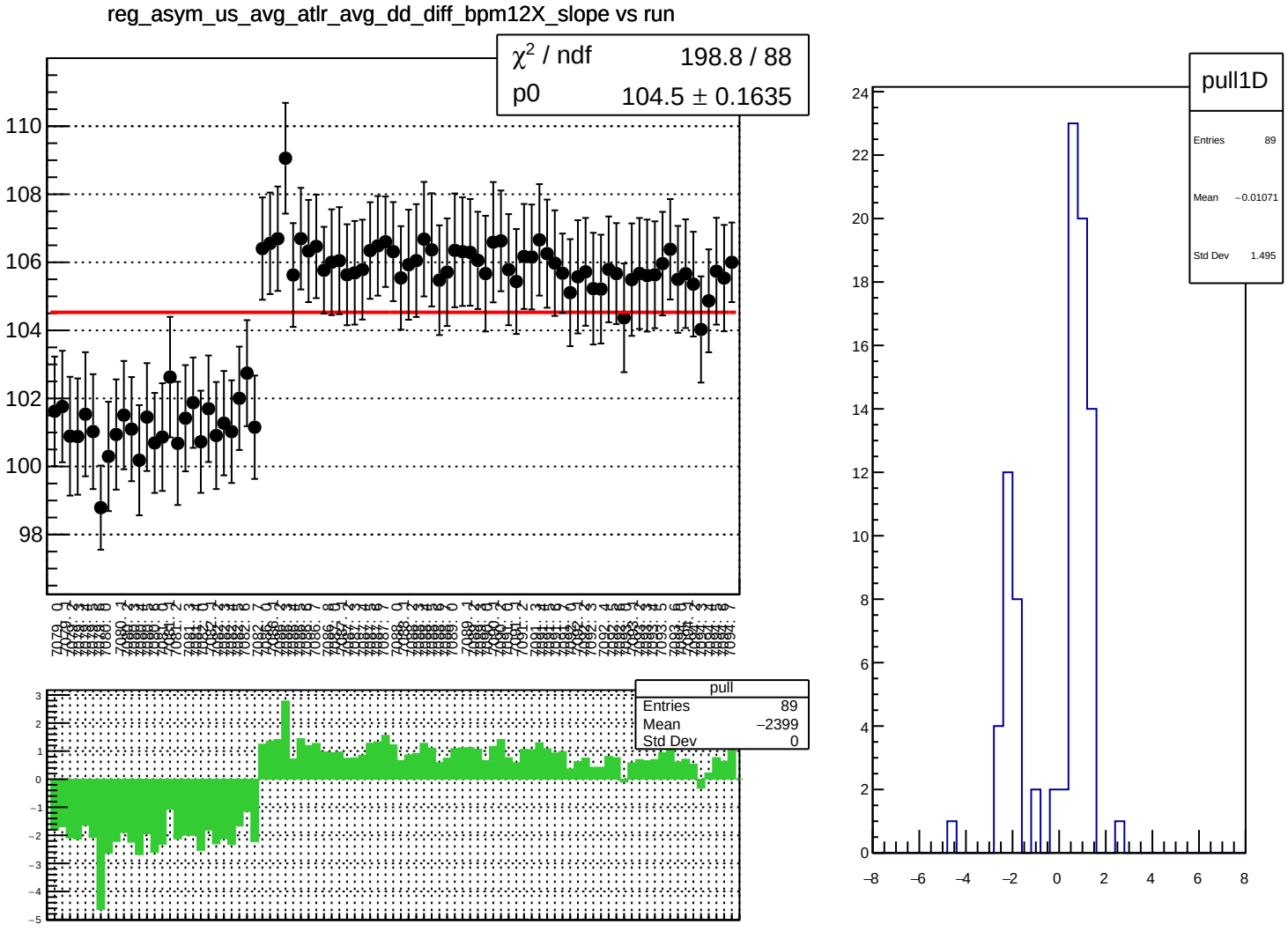

pull1D
Entries 89
Mean 0.04719
Std Dev 0.6034
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

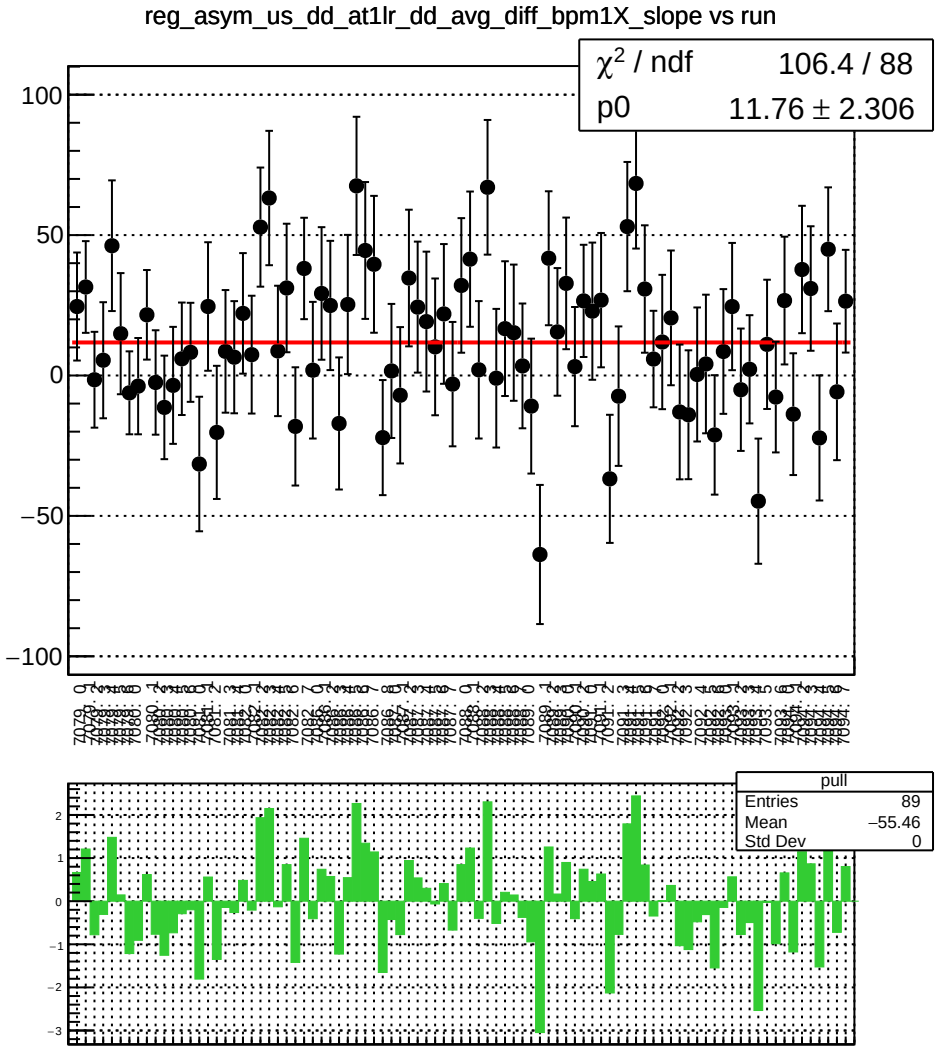

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.37 / 88
p0 3.417 ± 3.325
pull
Entries 89
Mean 1266
Std Dev 0
pull1D
Entries 89
Mean −0.003187
Std Dev 0.4155

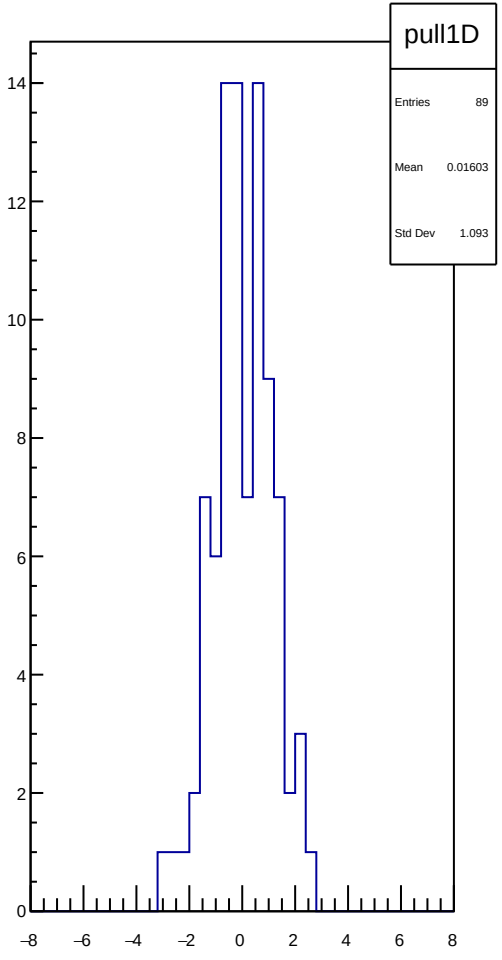

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.86 / 88
p0 −196.4 ± 4.524
−100
−150
−200
−250
−300
pull
Entries 89
Mean 177.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.04846
Std Dev 0.5963
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

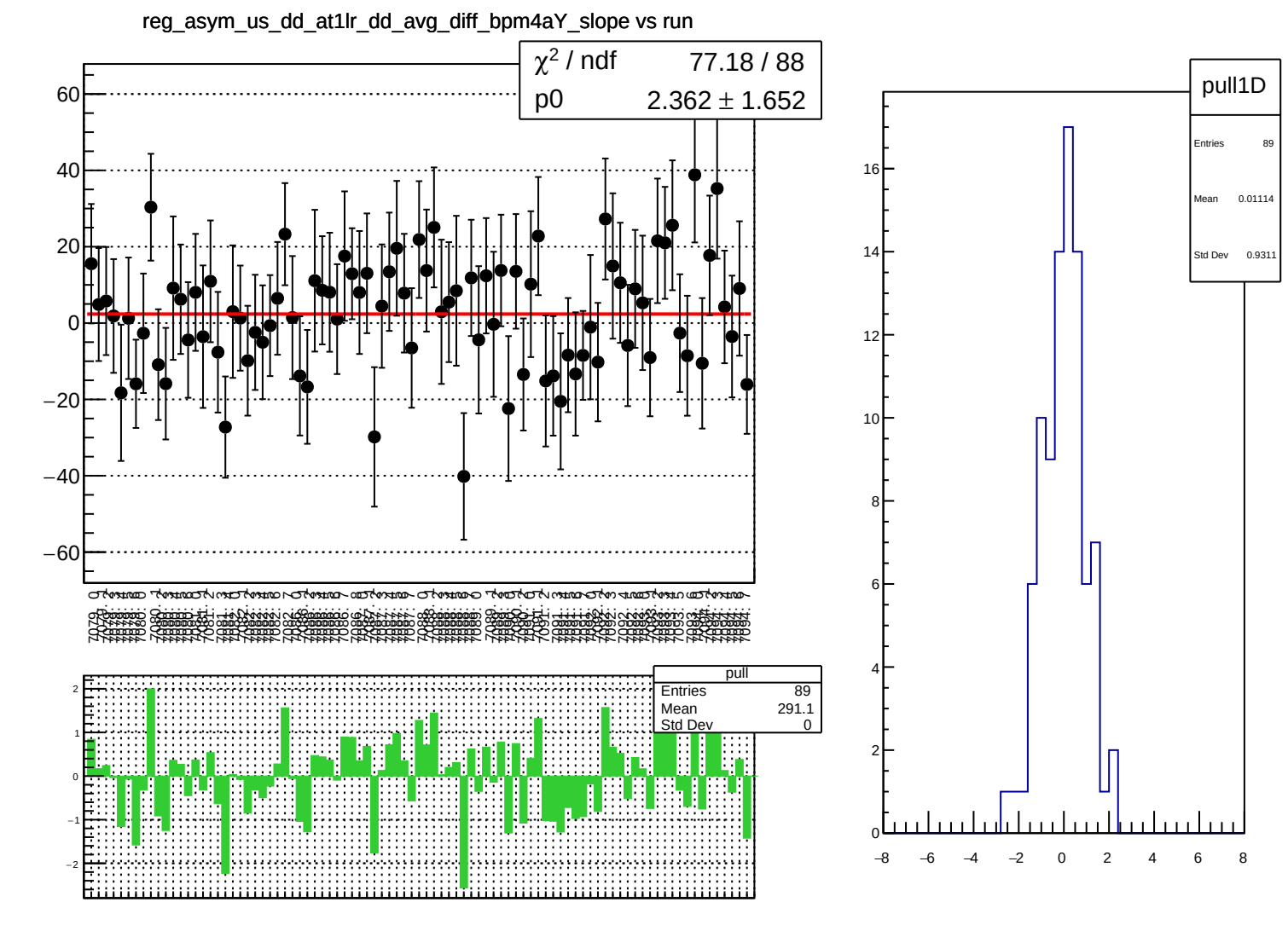

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.01 / 88
p0 −55.26 ± 3.494
pull
Entries 89
Mean 744.3
Std Dev 0

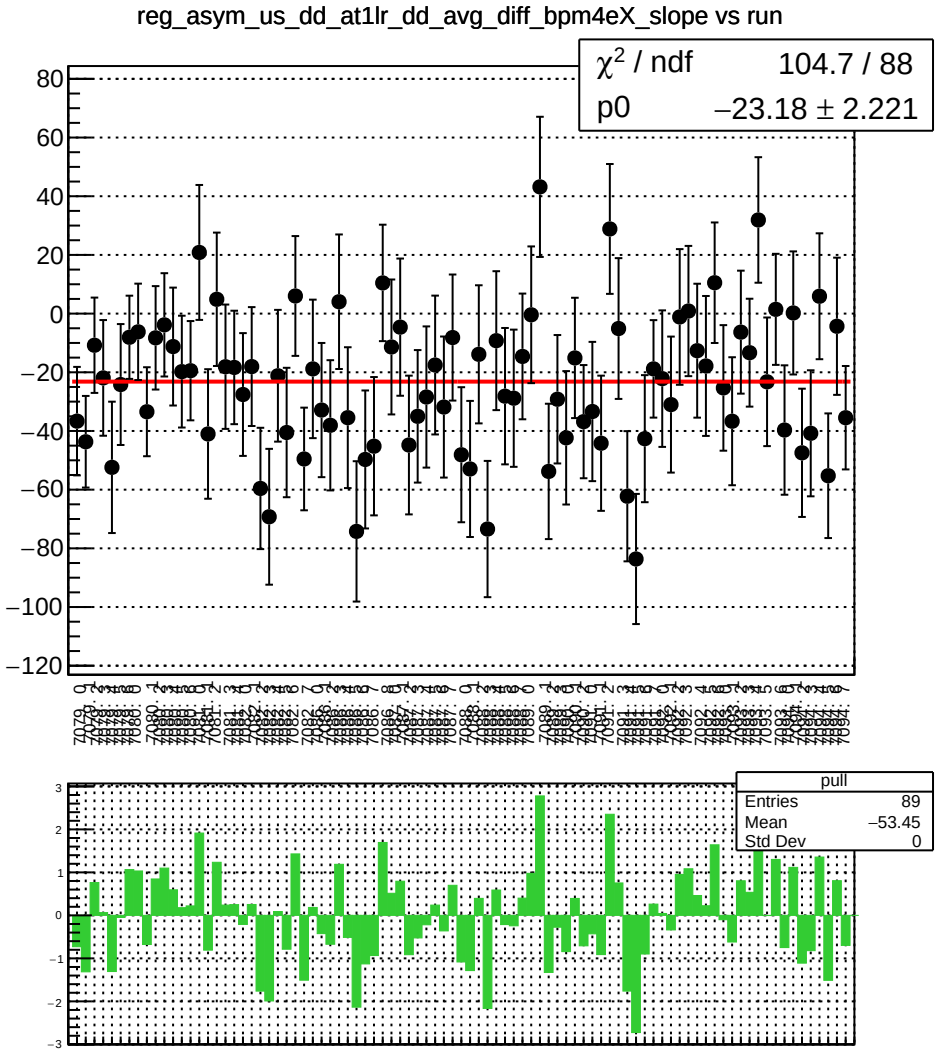

pull1D
Entries 89
Mean 0.006179
Std Dev 0.4498

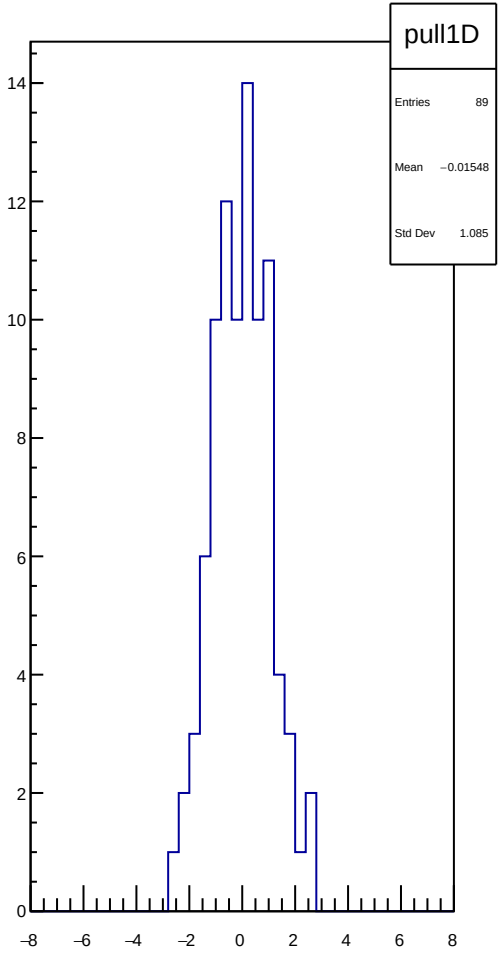

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 198.8 / 88
p0 104.5 ± 0.1635
110
108
106
104
102
100
98
pull
Entries 89
Mean −2399
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 89
Mean −0.01071
Std Dev 1.495
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

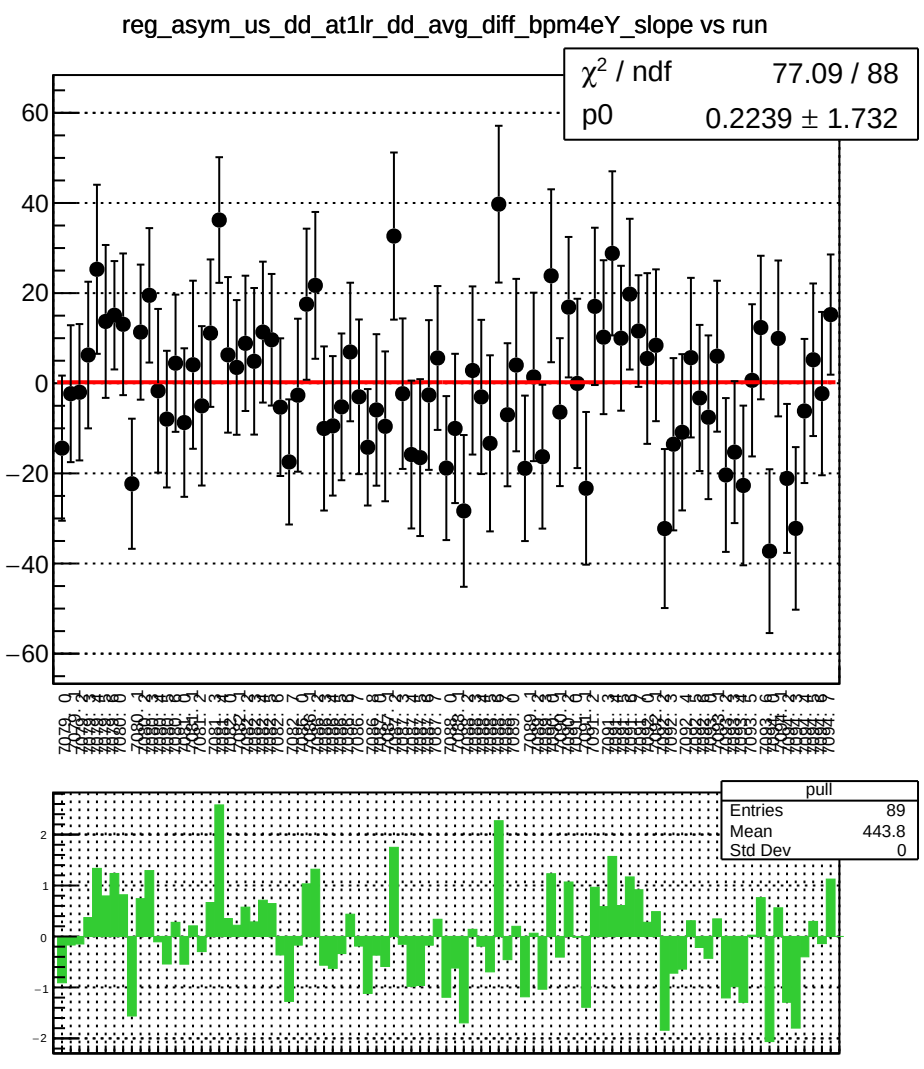

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 106.4 / 88
p0 11.76 ± 2.306
100
50
0
−50
−100
pull
Entries 89
Mean −55.46
Std Dev 0
2
1
0
−1
−2
−3

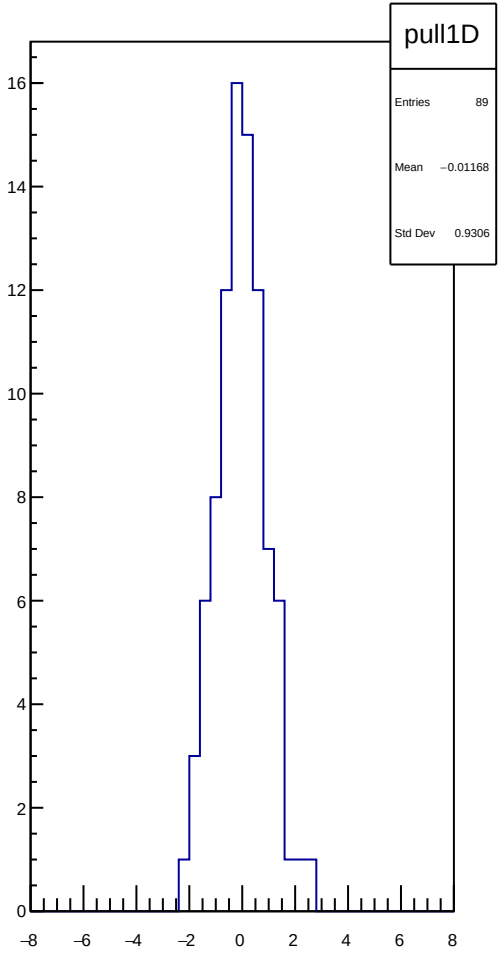

pull1D
Entries 89
Mean 0.01603
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

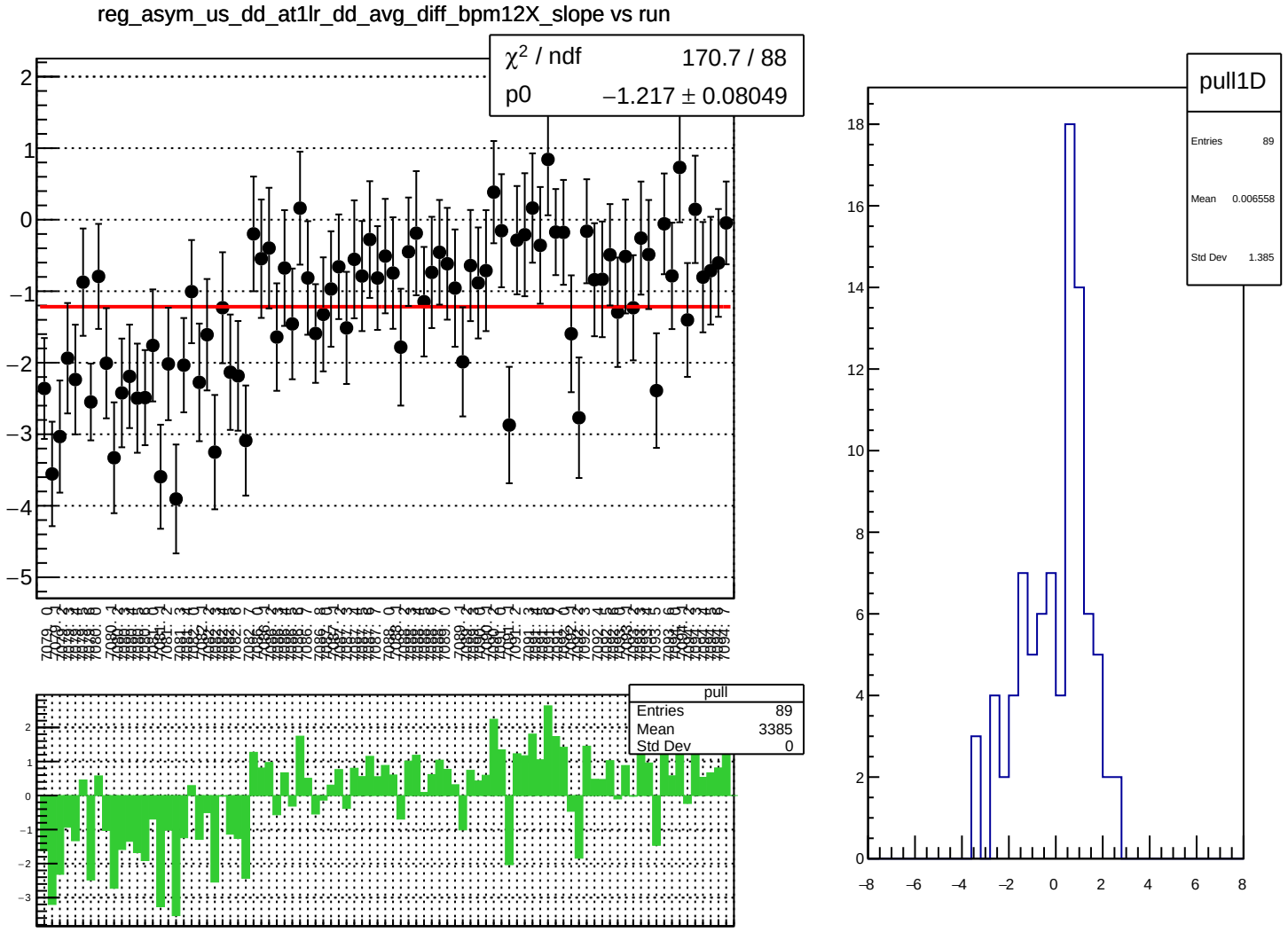

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.18 / 88
p0 2.362 ± 1.652
pull
Entries 89
Mean 291.1
Std Dev 0
pull1D
Entries 89
Mean 0.01114
Std Dev 0.9311

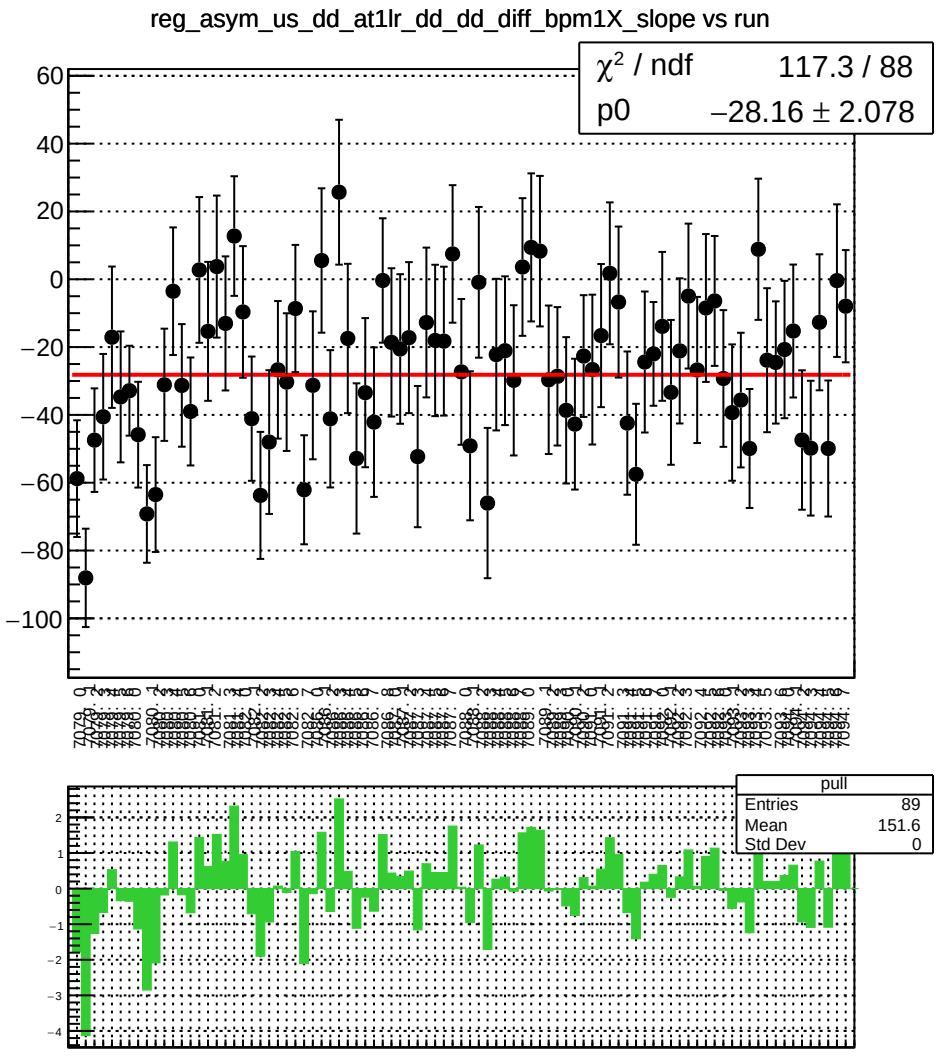

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.7 / 88
p0 −23.18 ± 2.221
pull
Entries 89
Mean −53.45
Std Dev 0

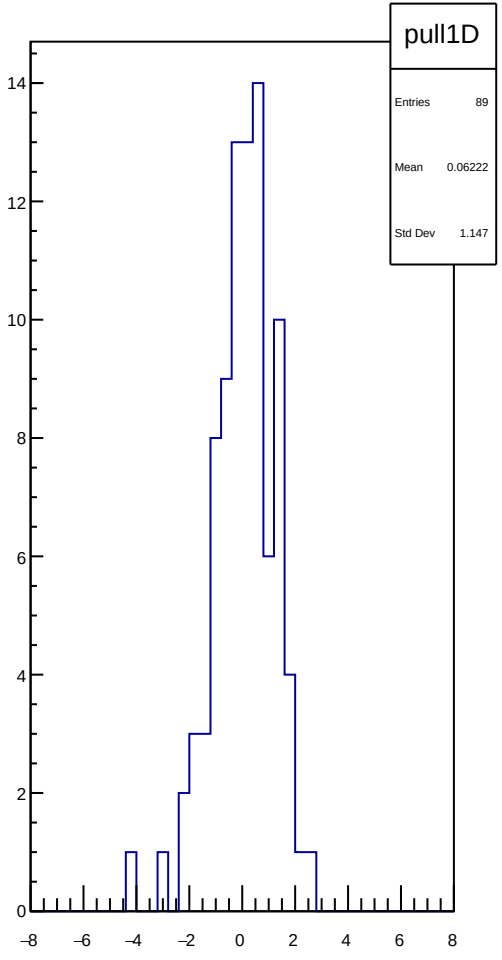

pull1D
Entries 89
Mean −0.01548
Std Dev 1.085

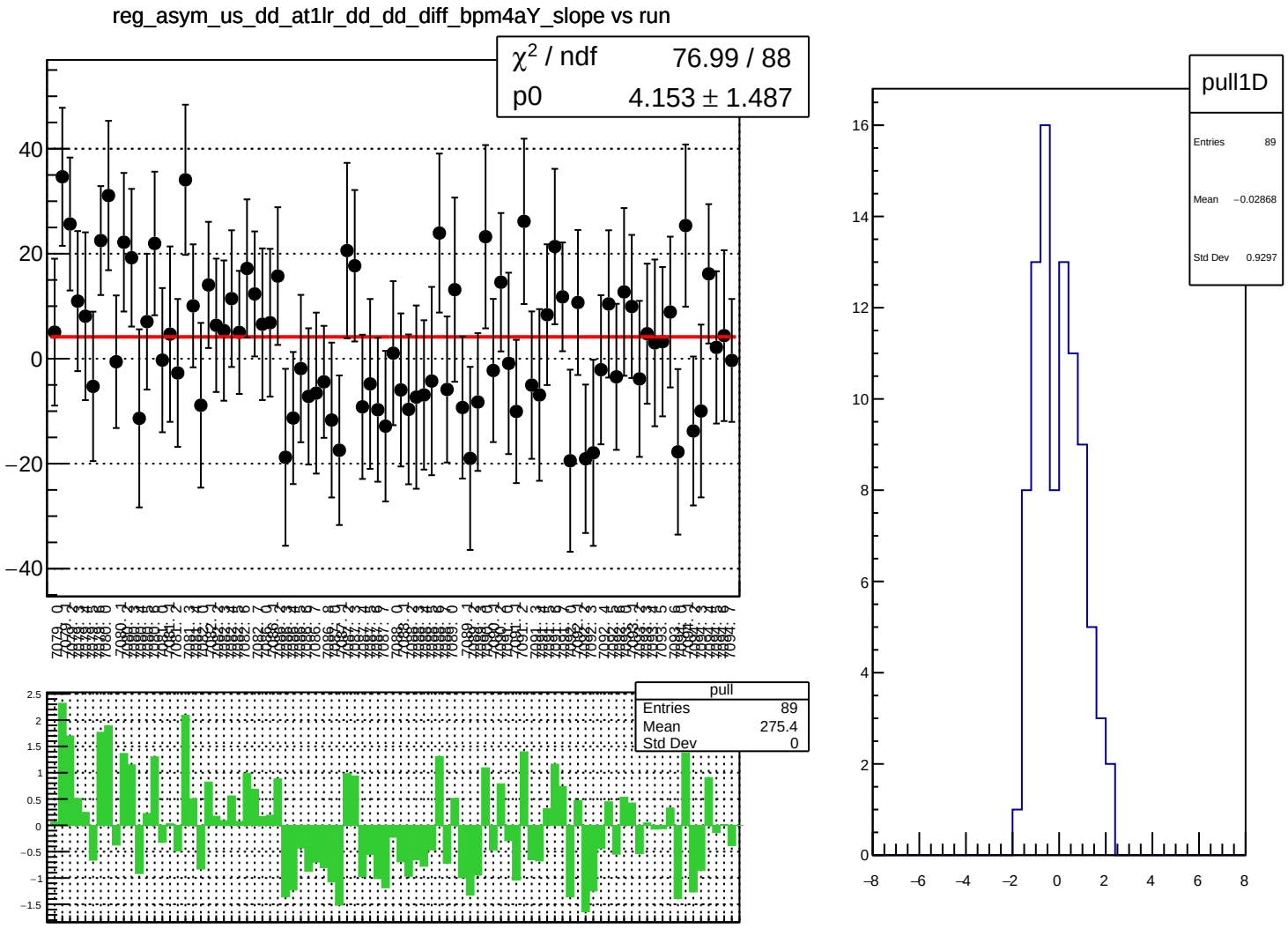

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.09 / 88
p0 0.2239 ± 1.732
pull
Entries 89
Mean 443.8
Std Dev 0

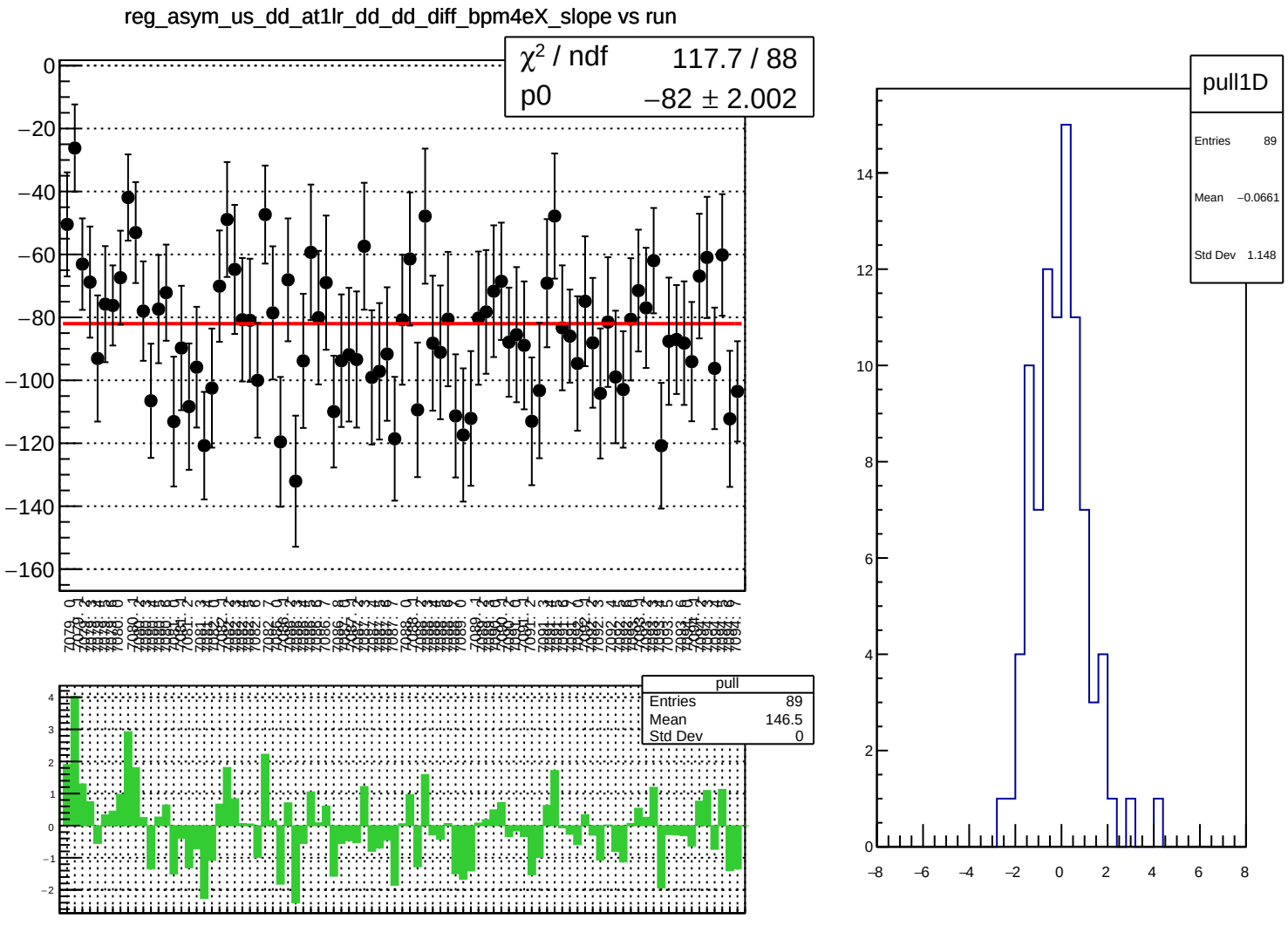

pull1D
Entries 89
Mean −0.01168
Std Dev 0.9306

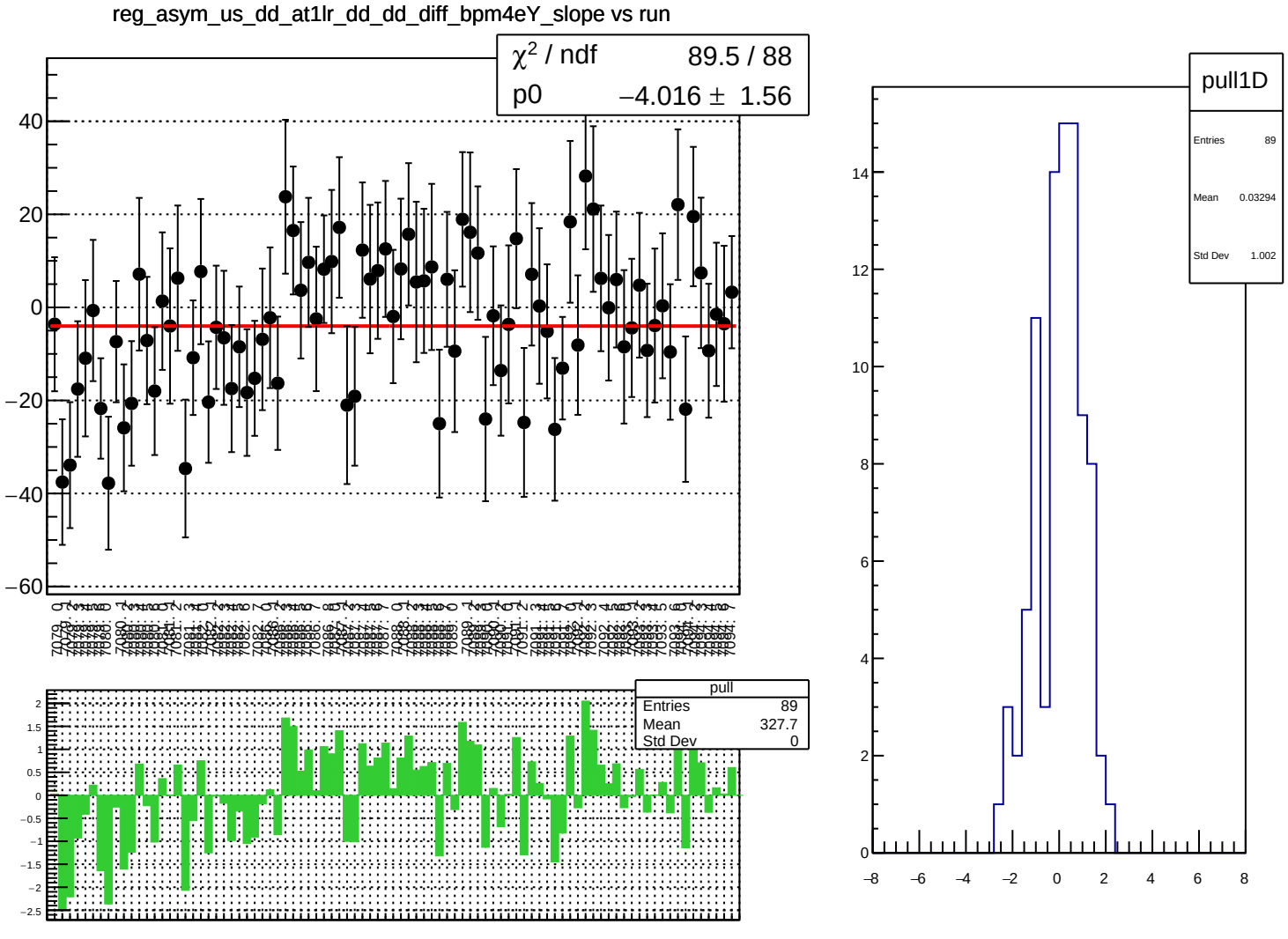

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 170.7 / 88
p0 −1.217 ± 0.08049
pull
Entries 89
Mean 3385
Std Dev 0
pull1D
Entries 89
Mean 0.006558
Std Dev 1.385

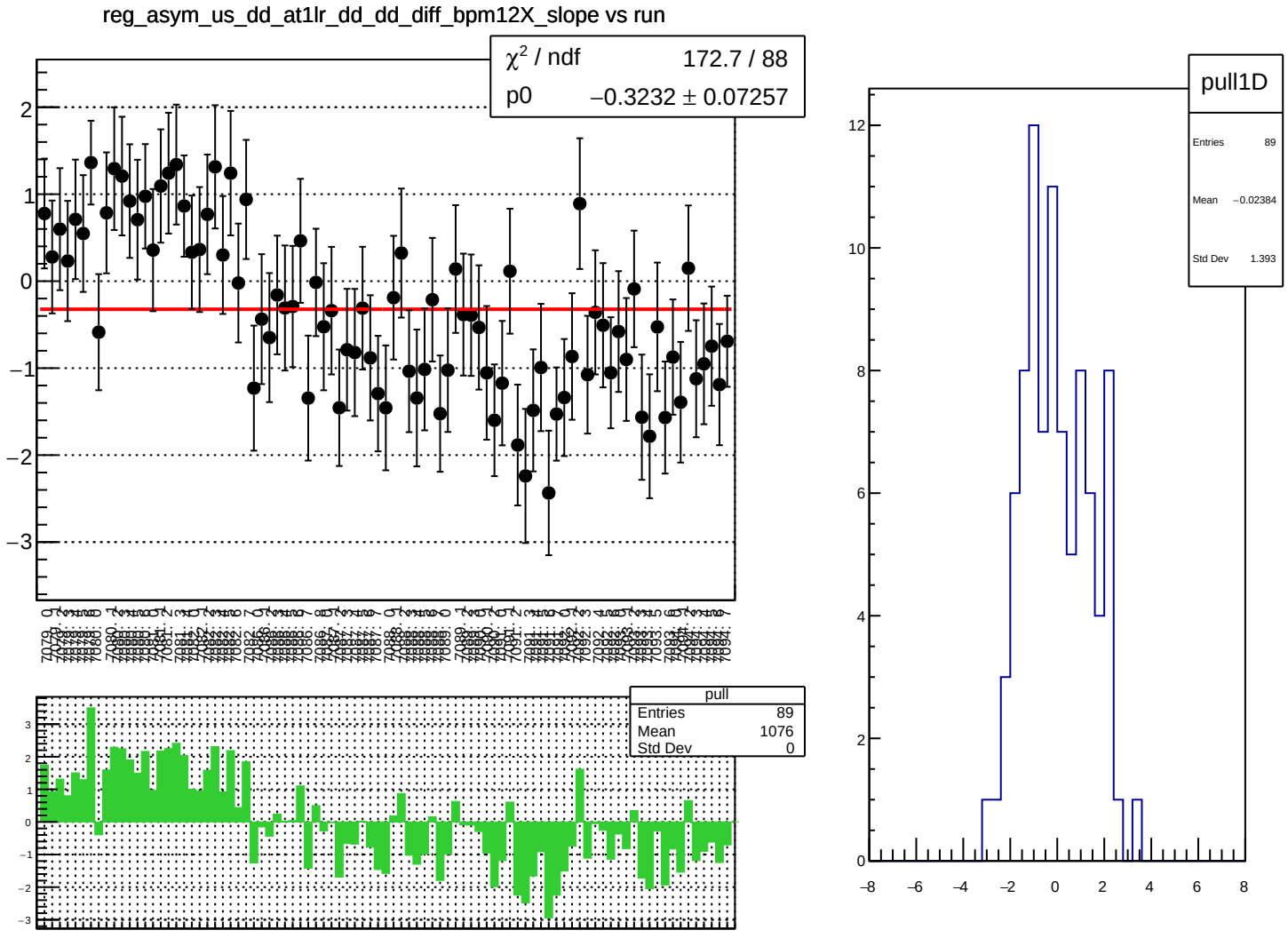

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 117.3 / 88
p0 −28.16 ± 2.078
pull
Entries 89
Mean 151.6
Std Dev 0

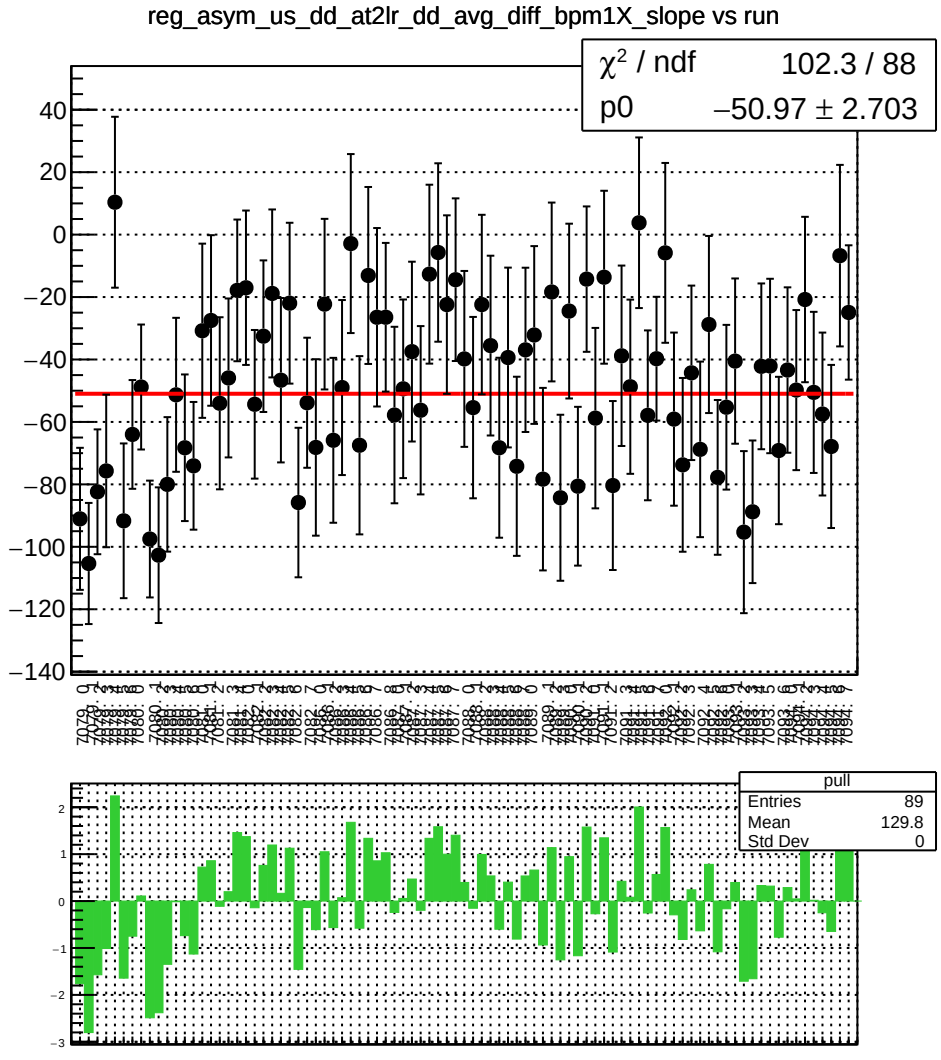

pull1D
Entries 89
Mean 0.06222
Std Dev 1.147

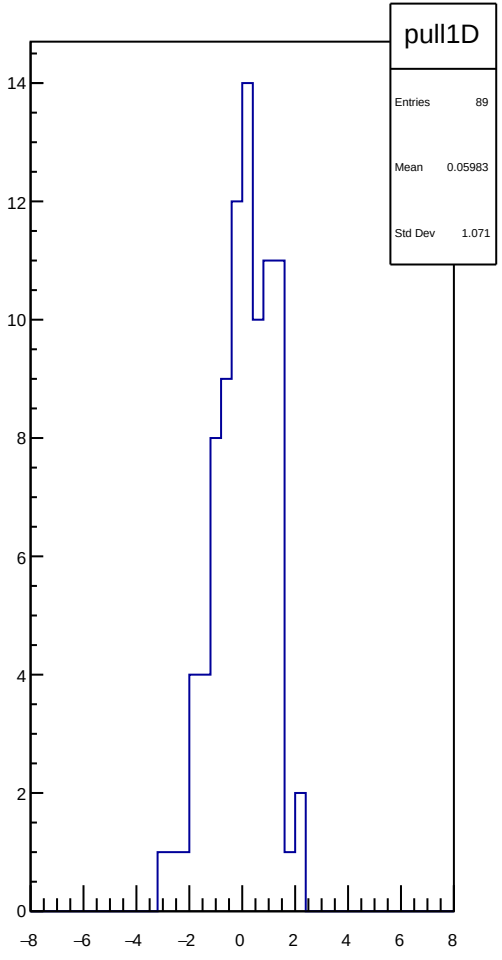

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.99 / 88
p0 4.153 ± 1.487
pull
Entries 89
Mean 275.4
Std Dev 0
pull1D
Entries 89
Mean −0.02868
Std Dev 0.9297

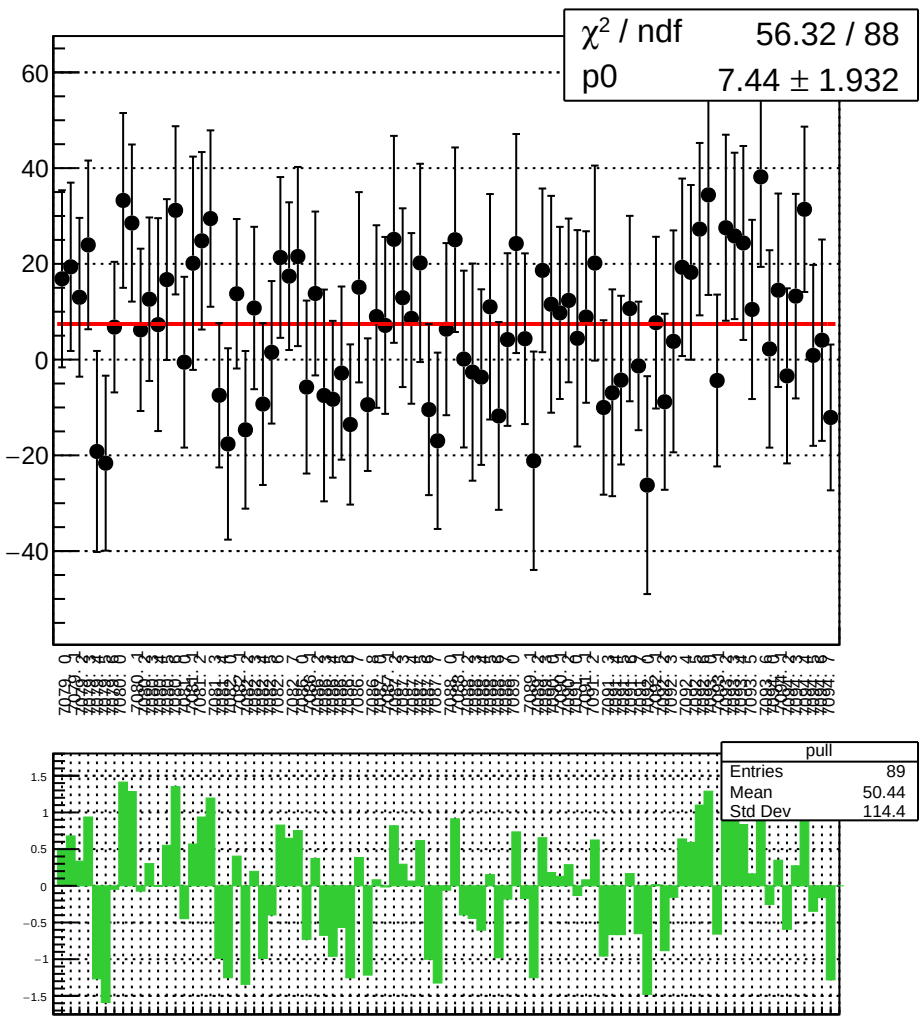

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.7 / 88
p0 −82 ± 2.002
pull
Entries 89
Mean 146.5
Std Dev 0
pull1D
Entries 89
Mean −0.0661
Std Dev 1.148

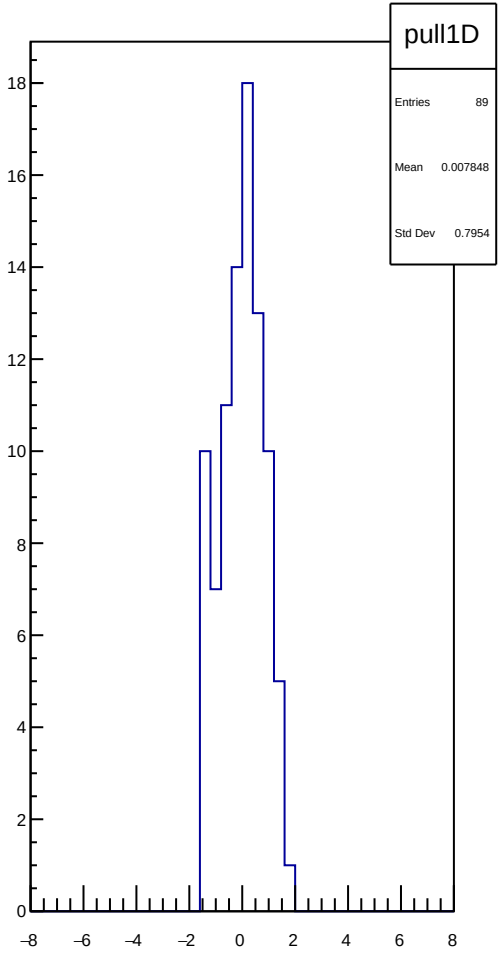

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.5 / 88
p0 −4.016 ± 1.56
pull
Entries 89
Mean 327.7
Std Dev 0
pull1D
Entries 89
Mean 0.03294
Std Dev 1.002

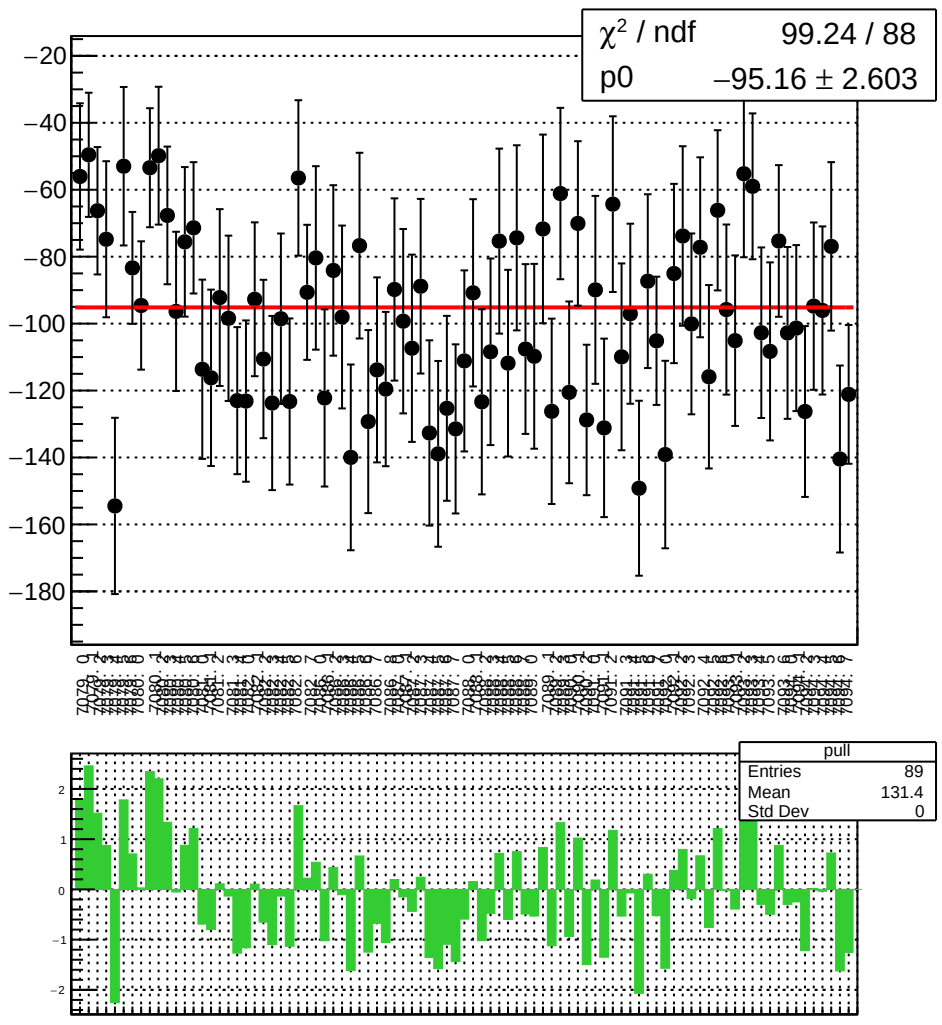

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 172.7 / 88
p0 −0.3232 ± 0.07257
pull
Entries 89
Mean 1076
Std Dev 0
pull1D
Entries 89
Mean −0.02384
Std Dev 1.393

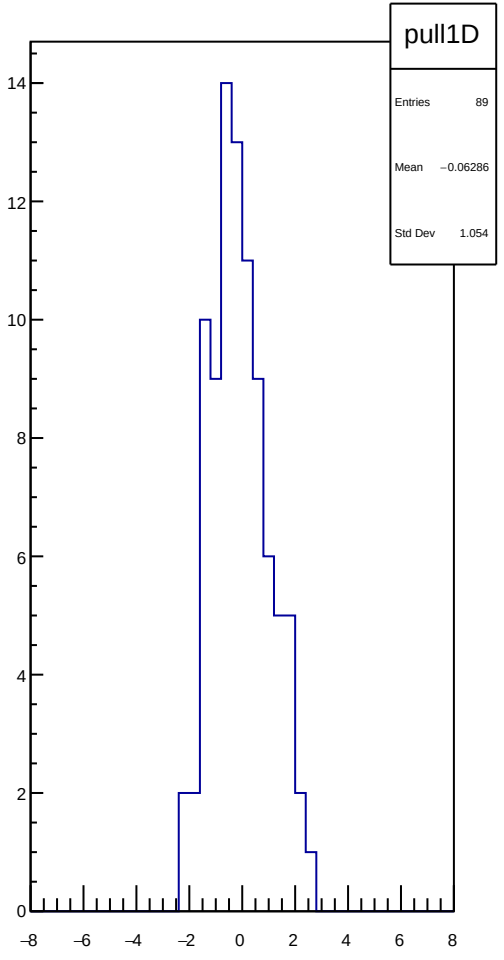

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 102.3 / 88
p0 −50.97 ± 2.703
pull
Entries 89
Mean 129.8
Std Dev 0

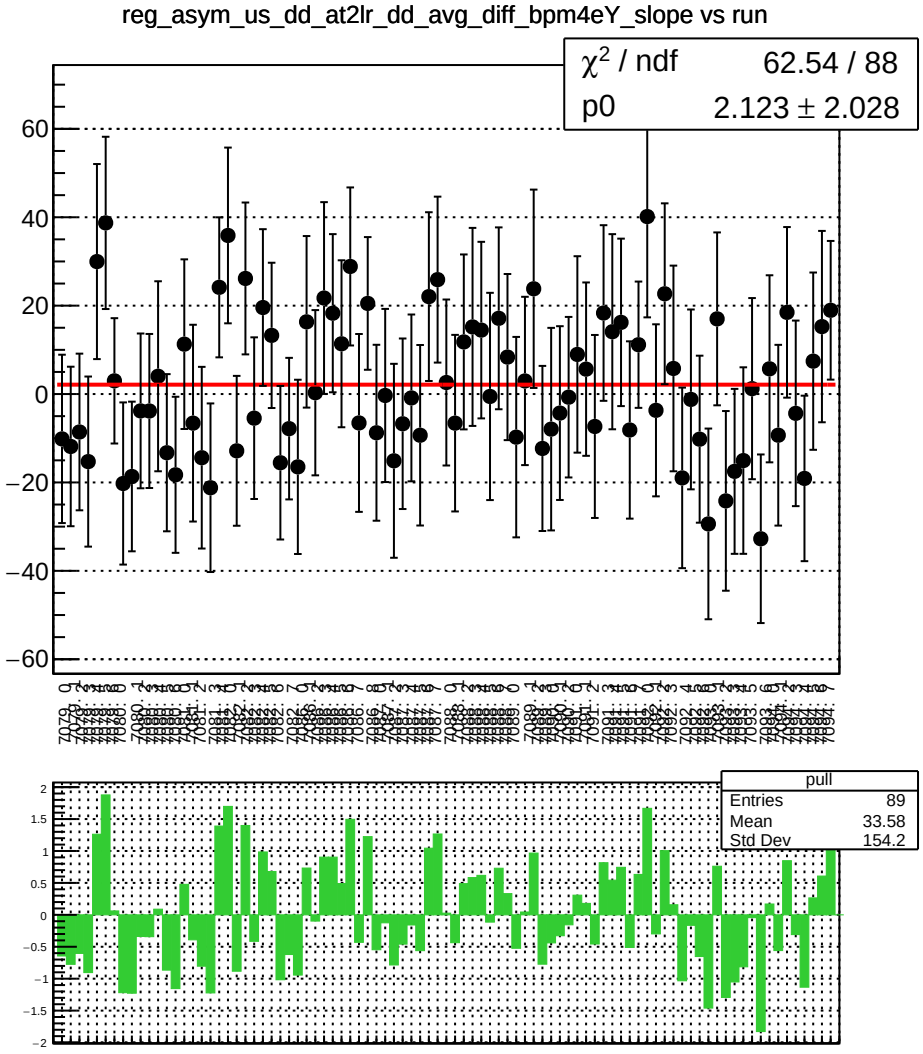

pull1D
Entries 89
Mean 0.05983
Std Dev 1.071

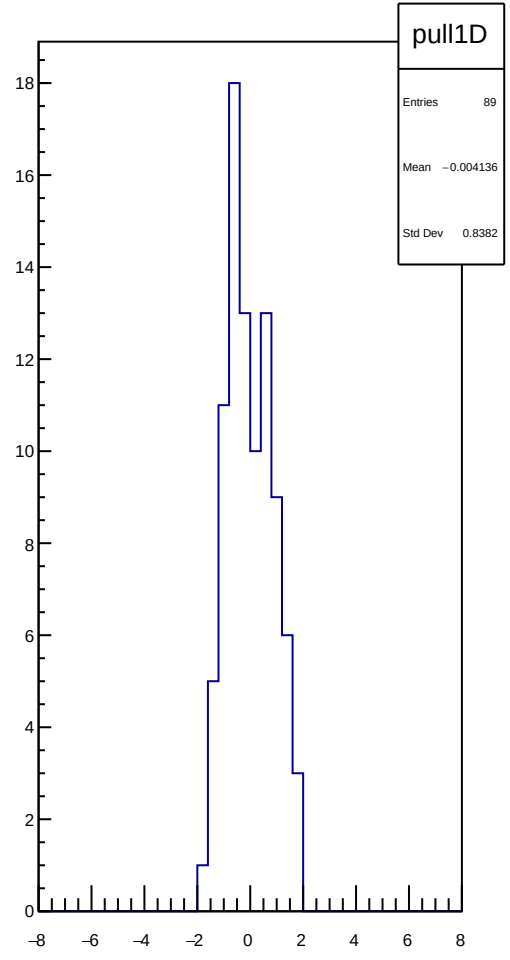

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.32 / 88
p0 7.44 ± 1.932
pull
Entries 89
Mean 50.44
Std Dev 114.4

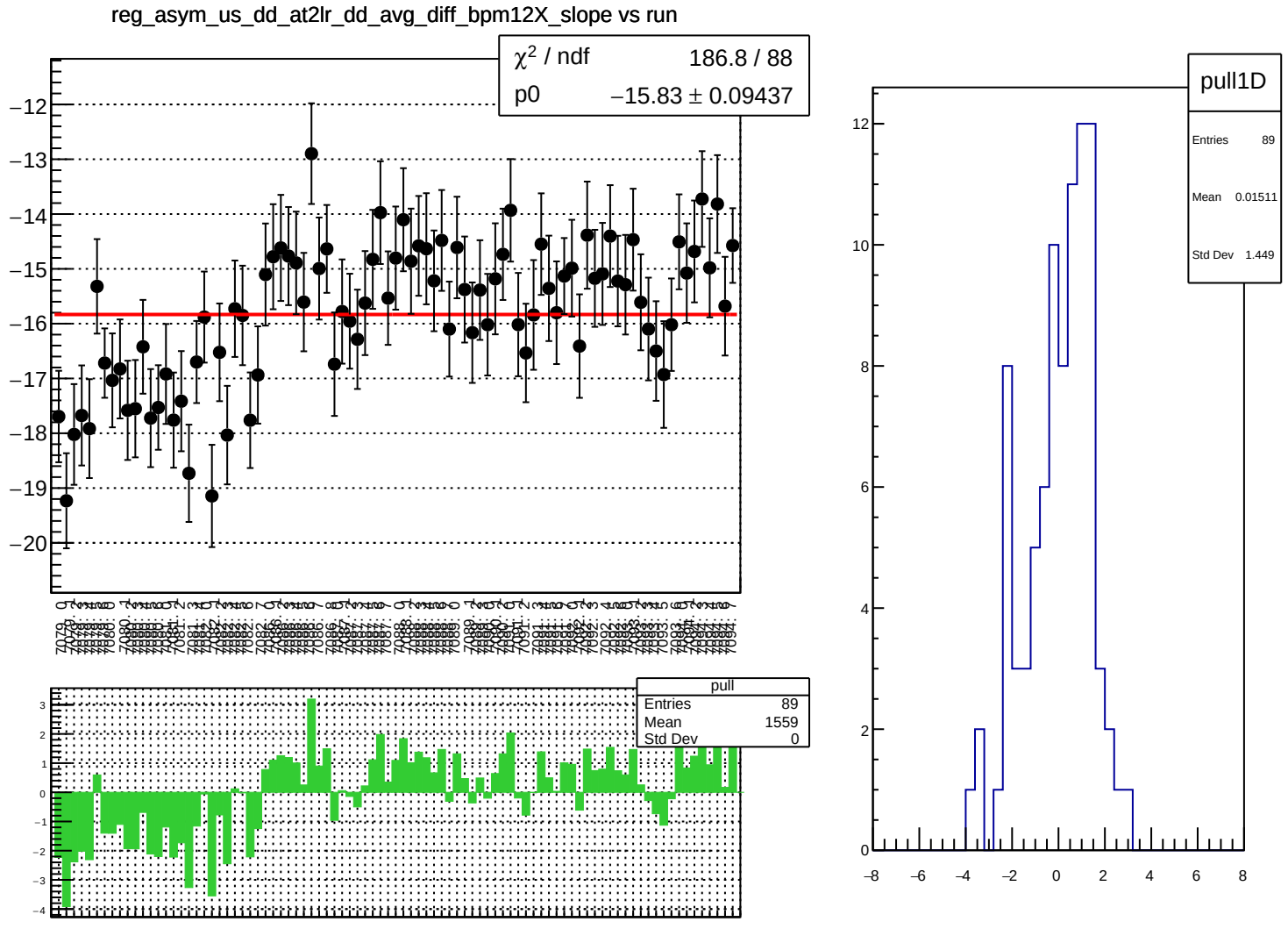

pull1D
Entries 89
Mean 0.007848
Std Dev 0.7954

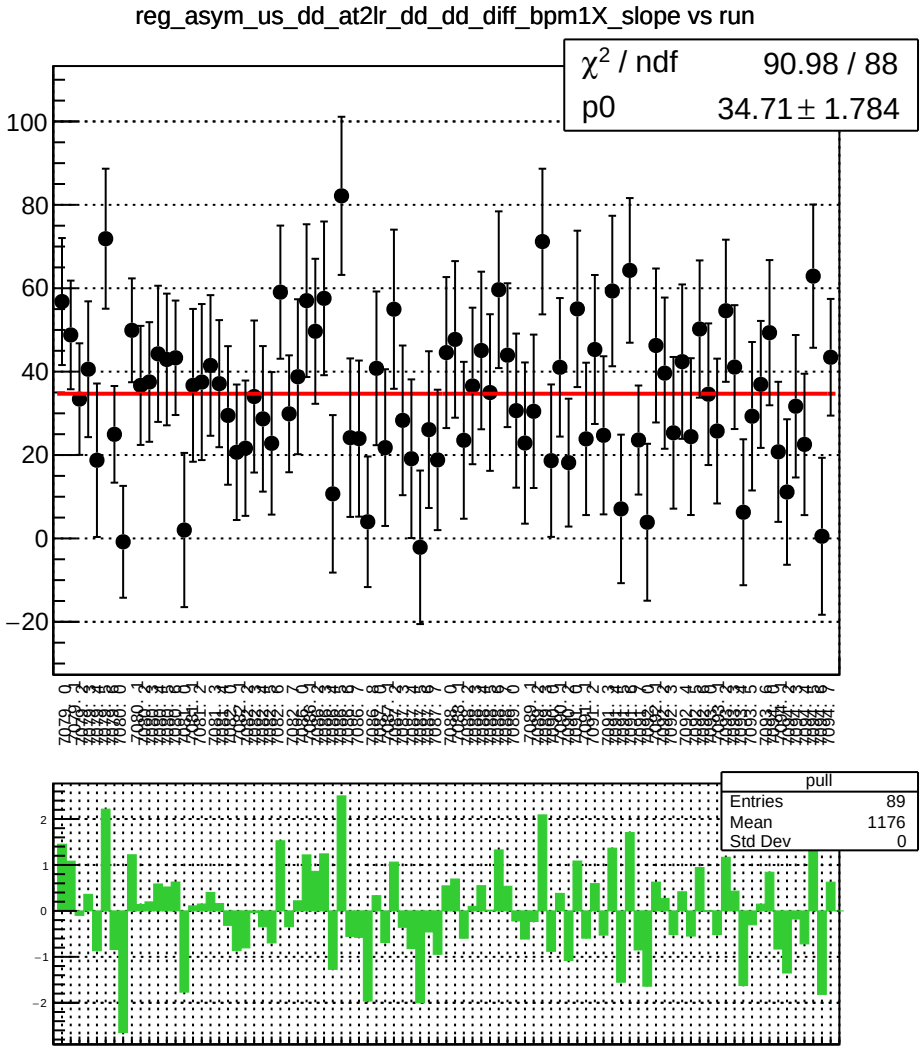

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 99.24 / 88
p0 −95.16 ± 2.603
pull
Entries 89
Mean 131.4
Std Dev 0

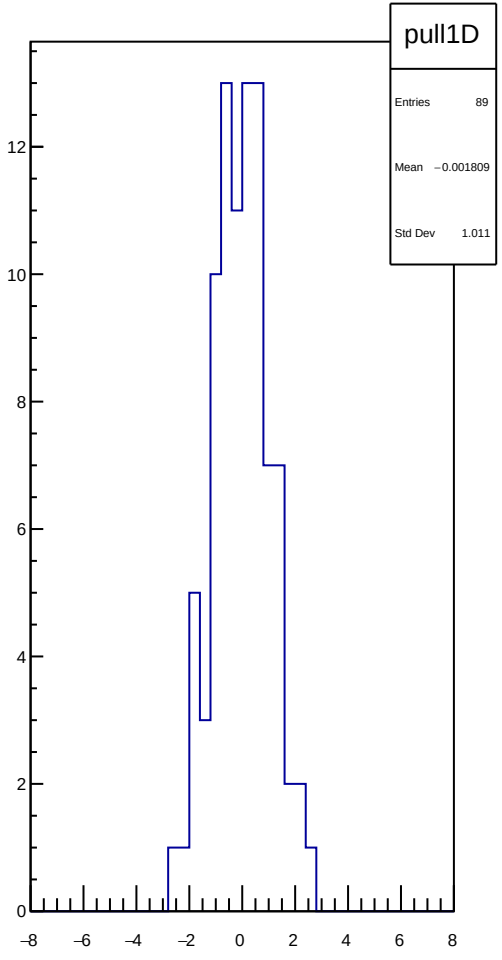

pull1D
Entries 89
Mean −0.06286
Std Dev 1.054

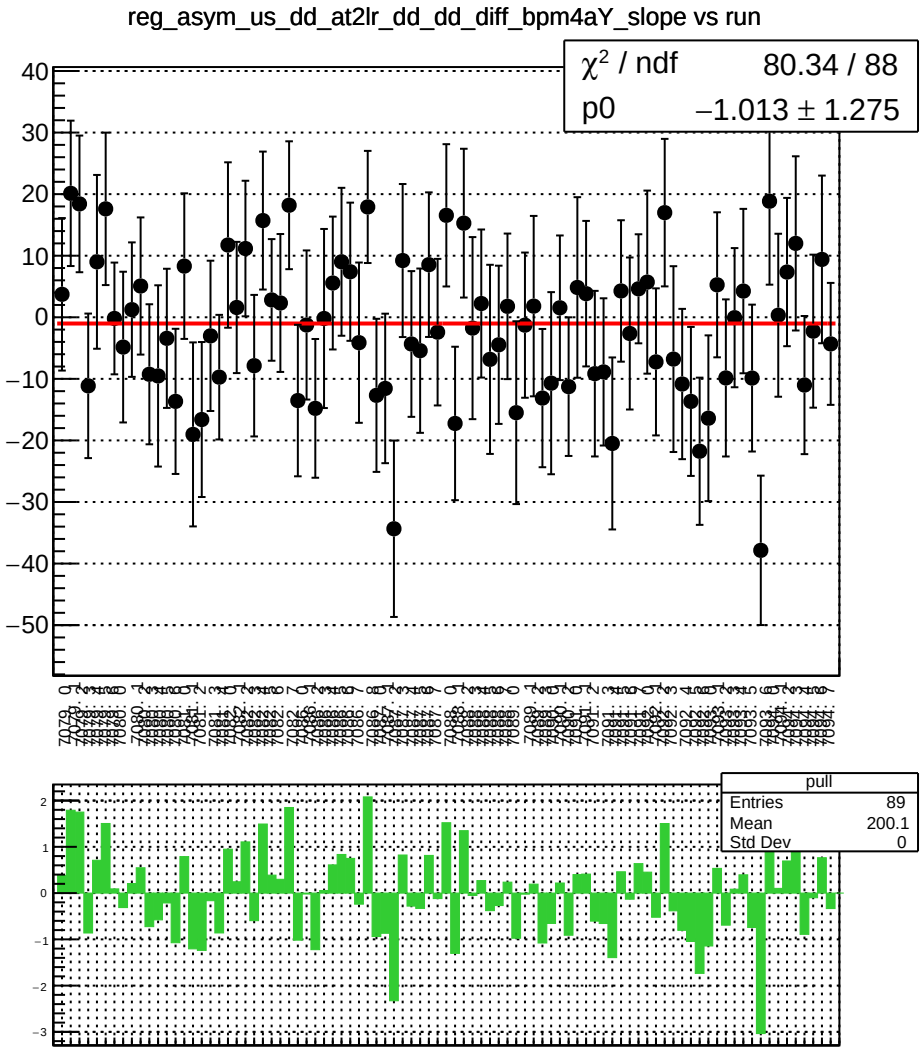

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 62.54 / 88
p0 2.123 ± 2.028
pull
Entries 89
Mean 33.58
Std Dev 154.2

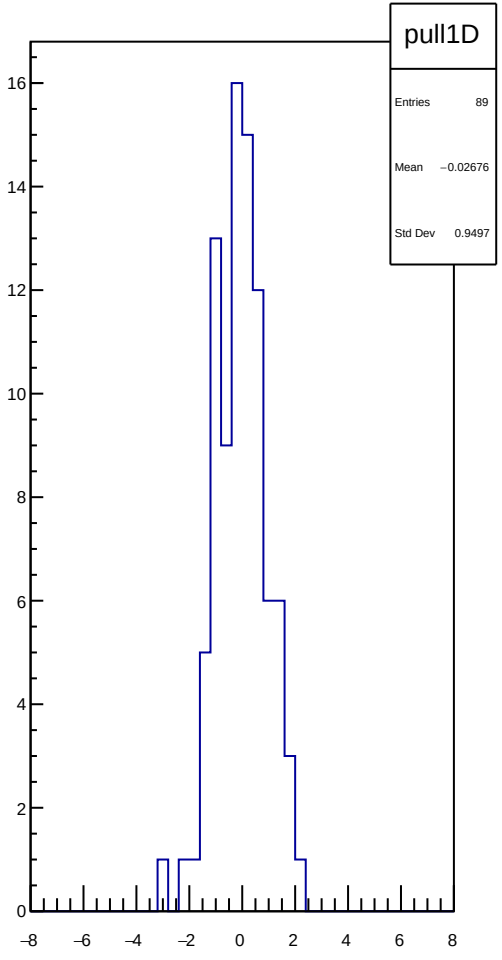

pull1D
Entries 89
Mean −0.004136
Std Dev 0.8382

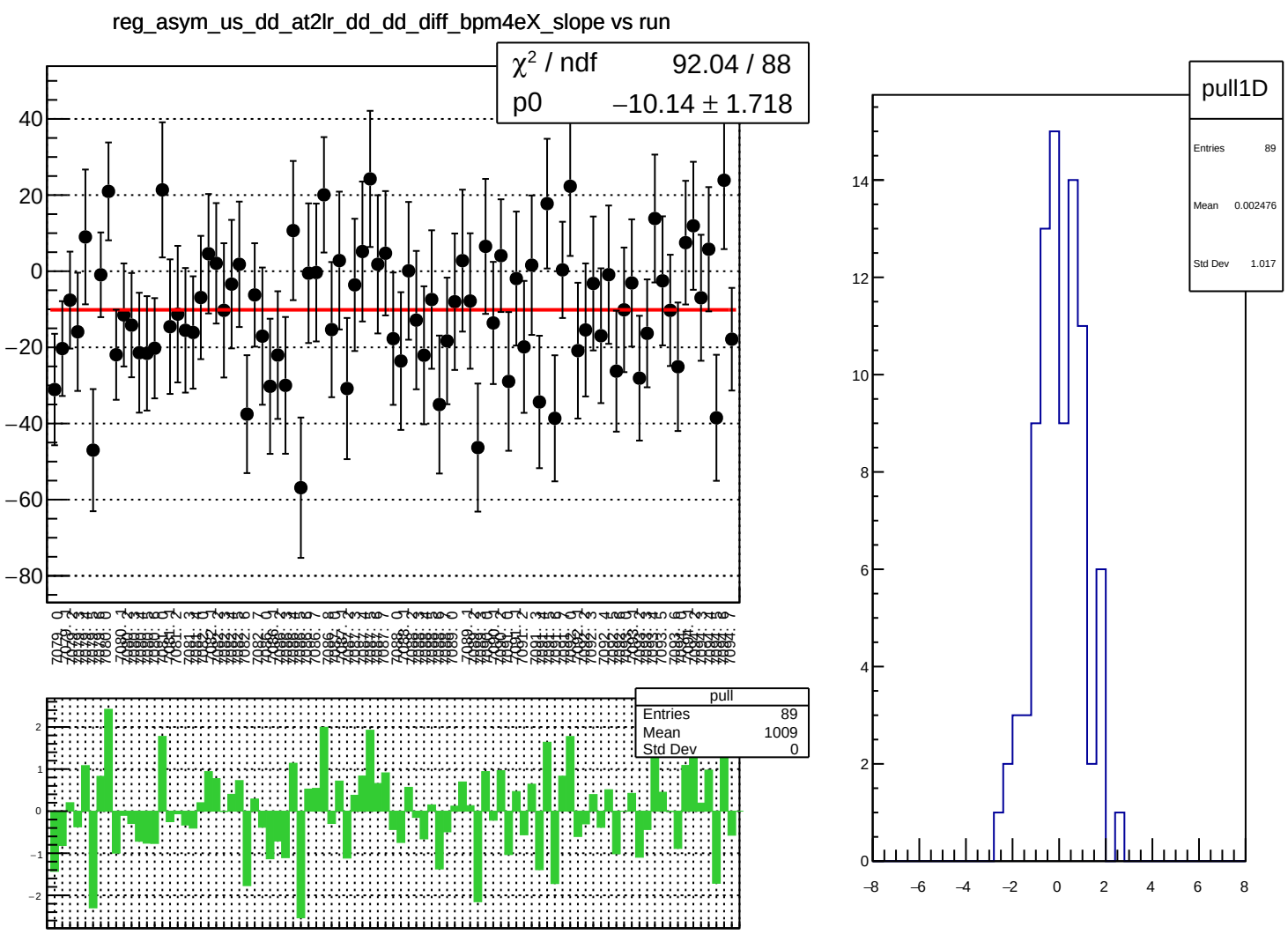

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 186.8 / 88
p0 −15.83 ± 0.09437
pull
Entries 89
Mean 1559
Std Dev 0
pull1D
Entries 89
Mean 0.01511
Std Dev 1.449

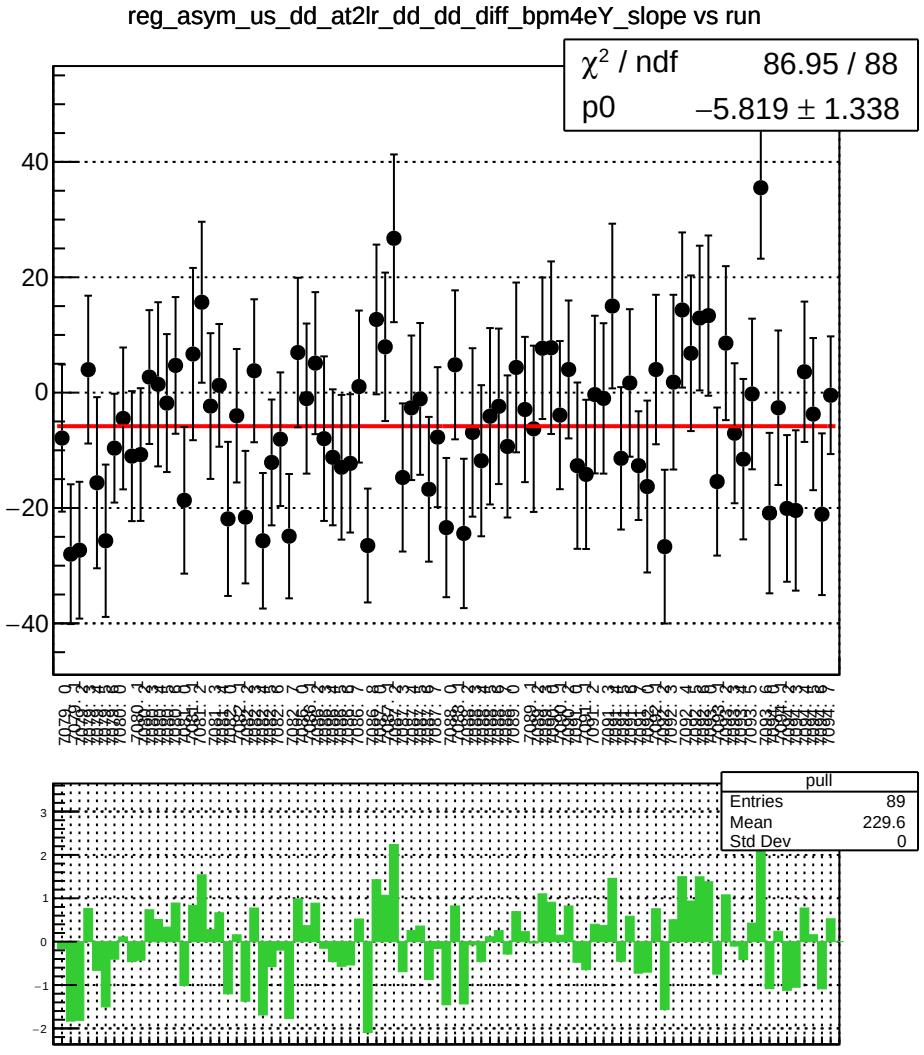

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 90.98 / 88
p0 34.71 ± 1.784
pull
Entries 89
Mean 1176
Std Dev 0

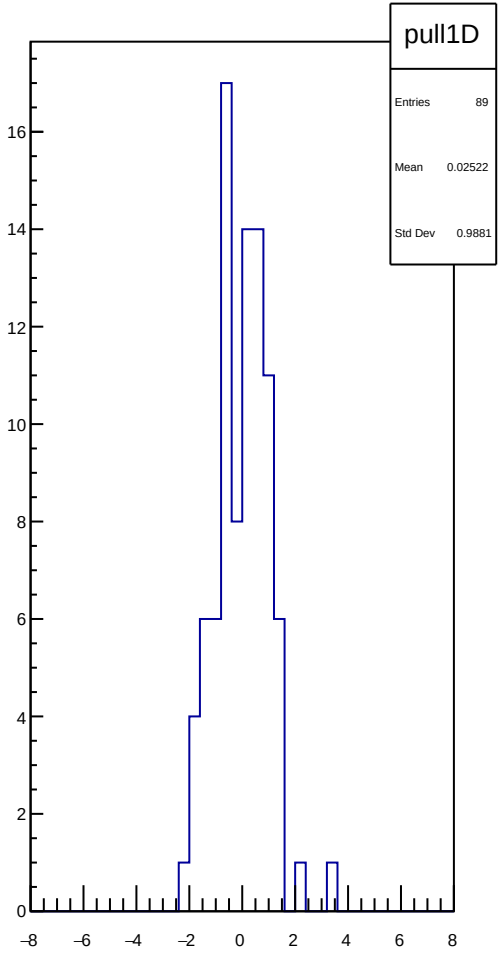

pull1D
Entries 89
Mean −0.001809
Std Dev 1.011

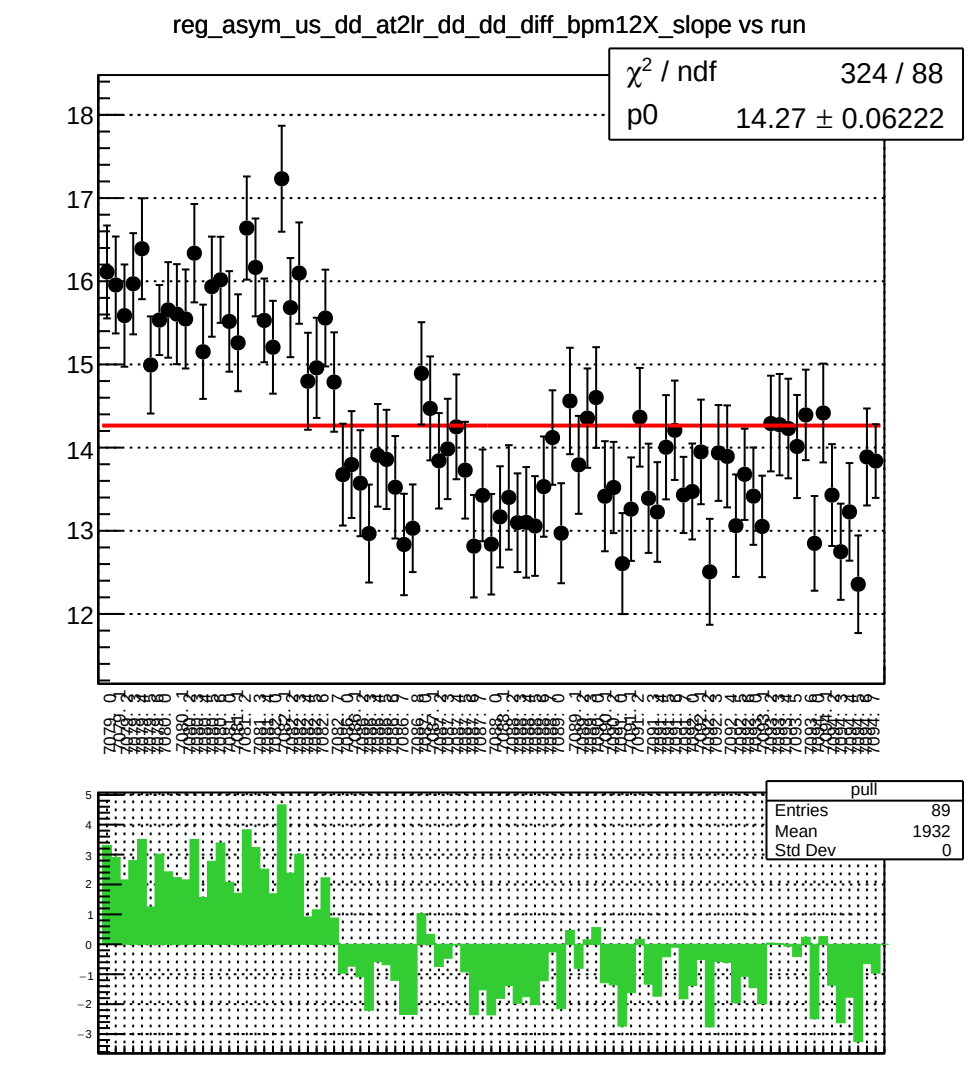

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.34 / 88
p0 −1.013 ± 1.275
pull
Entries 89
Mean 200.1
Std Dev 0

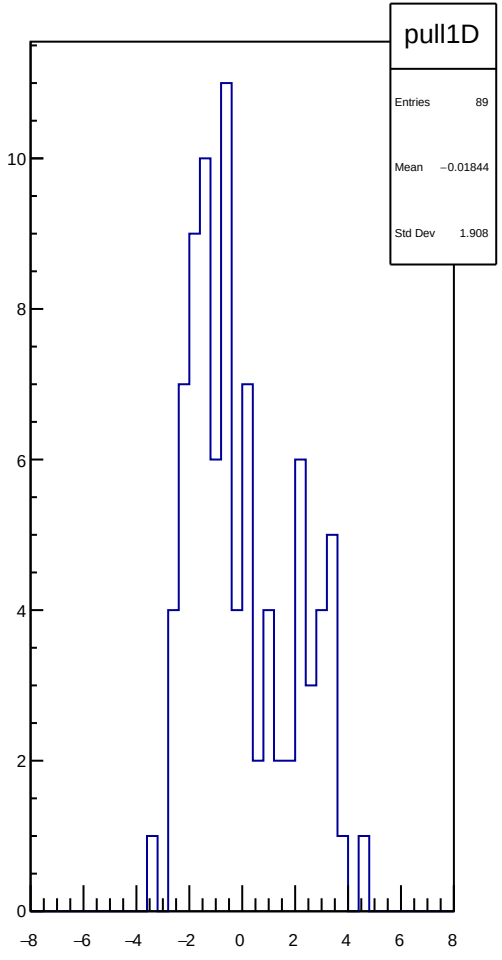

pull1D
Entries 89
Mean −0.02676
Std Dev 0.9497

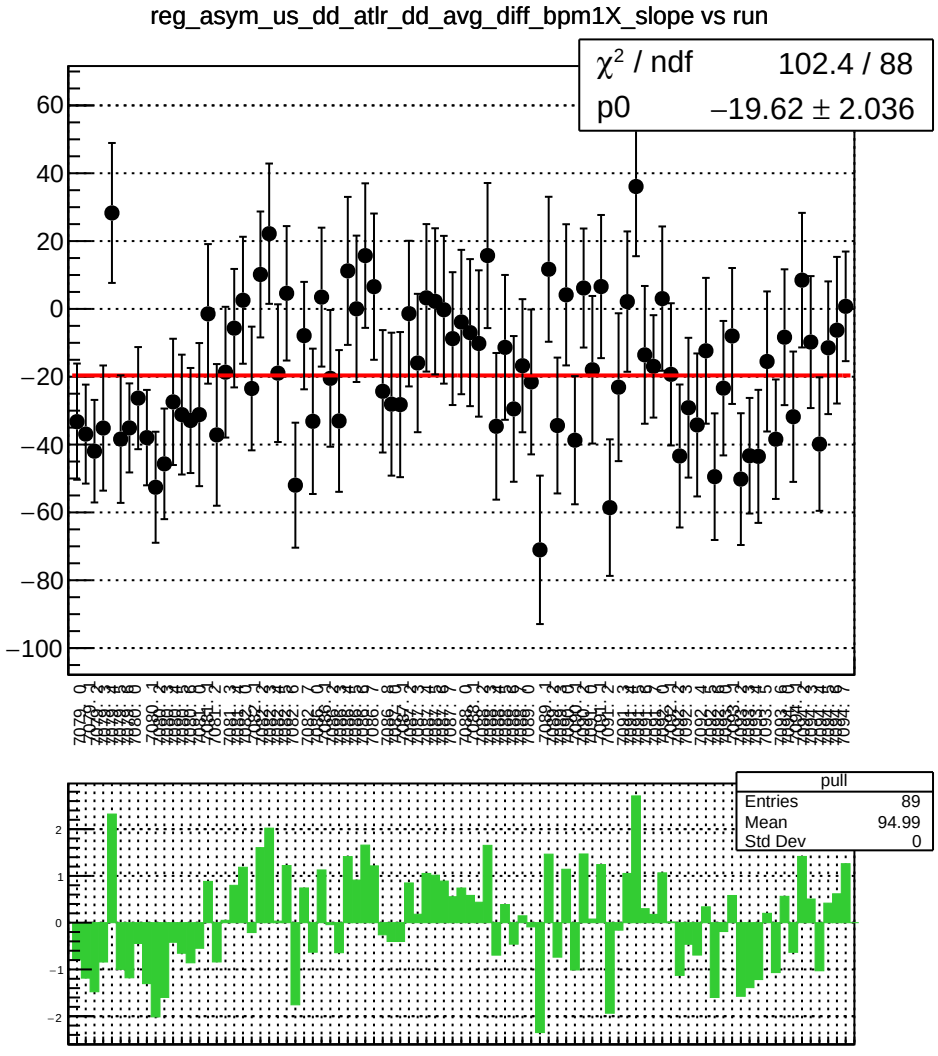

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.04 / 88
p0 −10.14 ± 1.718
pull
Entries 89
Mean 1009
Std Dev 0
pull1D
Entries 89
Mean 0.002476
Std Dev 1.017

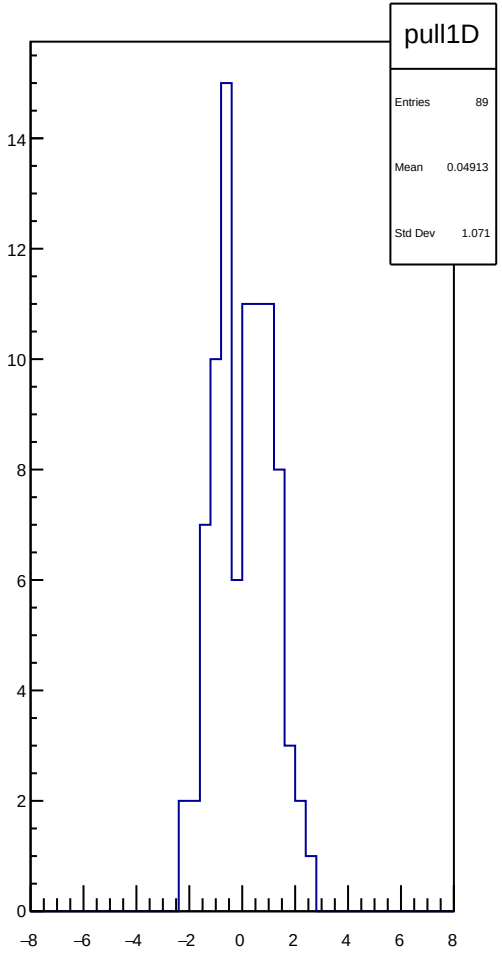

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 86.95 / 88
p0 −5.819 ± 1.338
40
20
0
−20
−40
pull
Entries 89
Mean 229.6
Std Dev 0
3
2
1
0
−1
−2

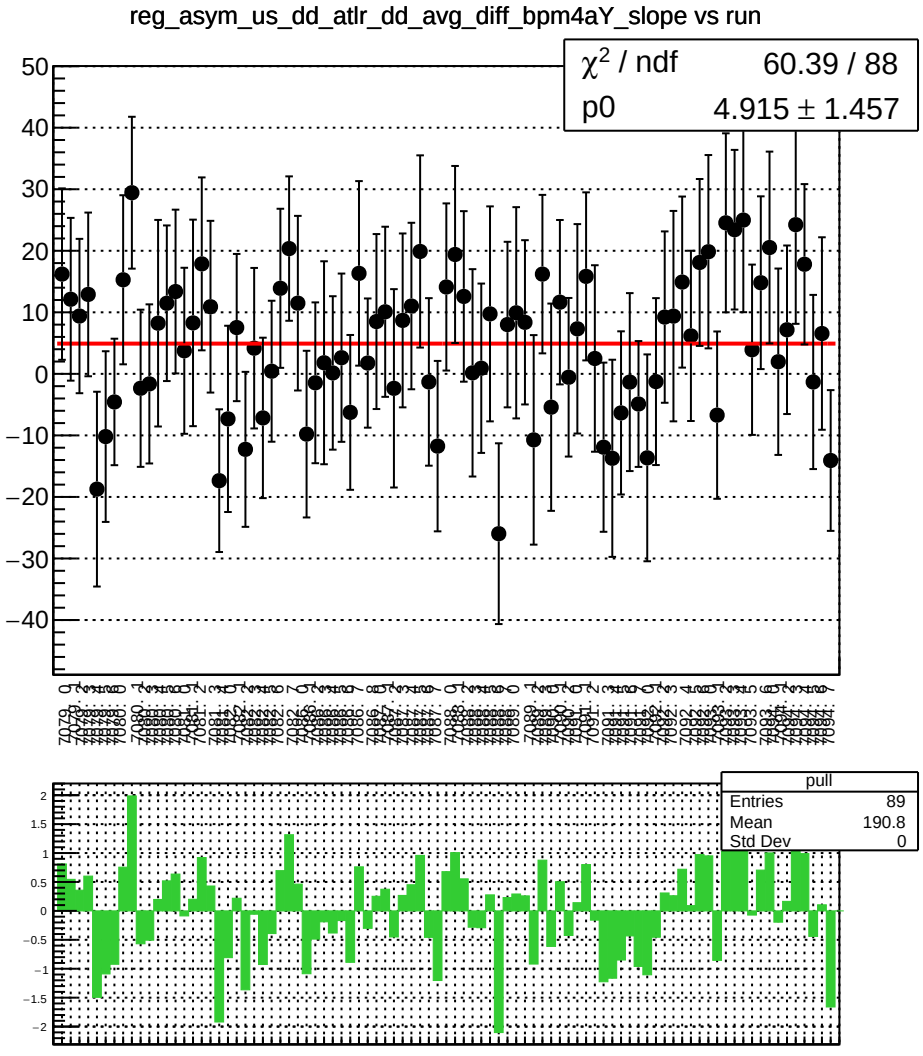

pull1D
Entries 89
Mean 0.02522
Std Dev 0.9881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

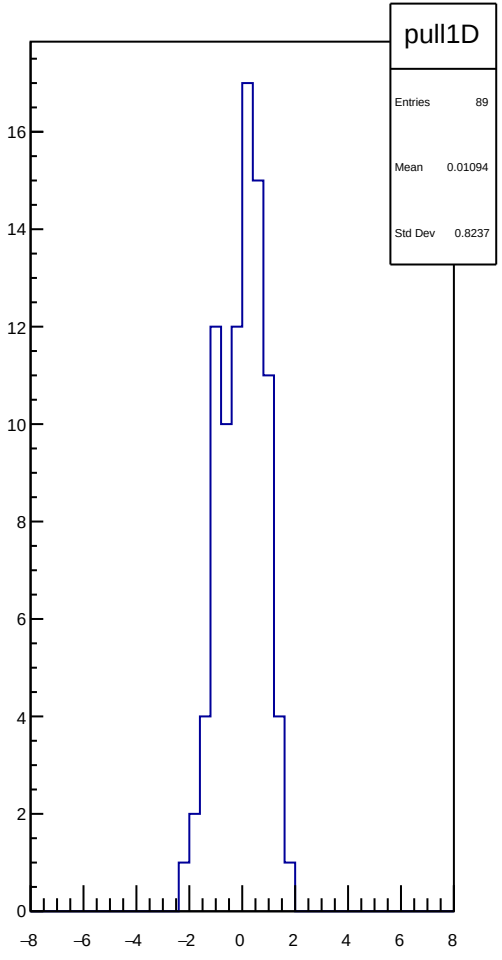

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 324 / 88
p0 14.27 ± 0.06222
pull
Entries 89
Mean 1932
Std Dev 0

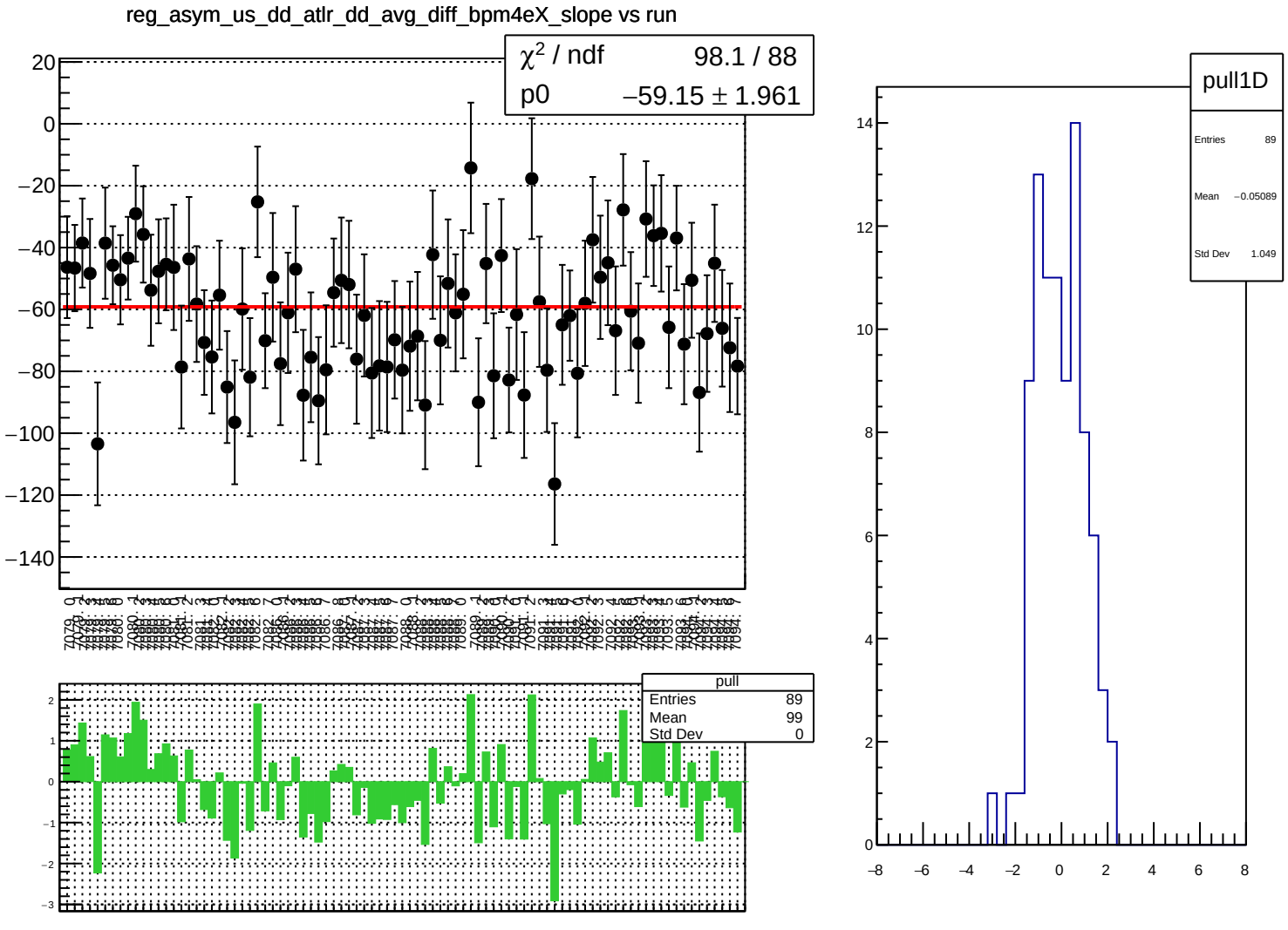

pull1D
Entries 89
Mean −0.01844
Std Dev 1.908

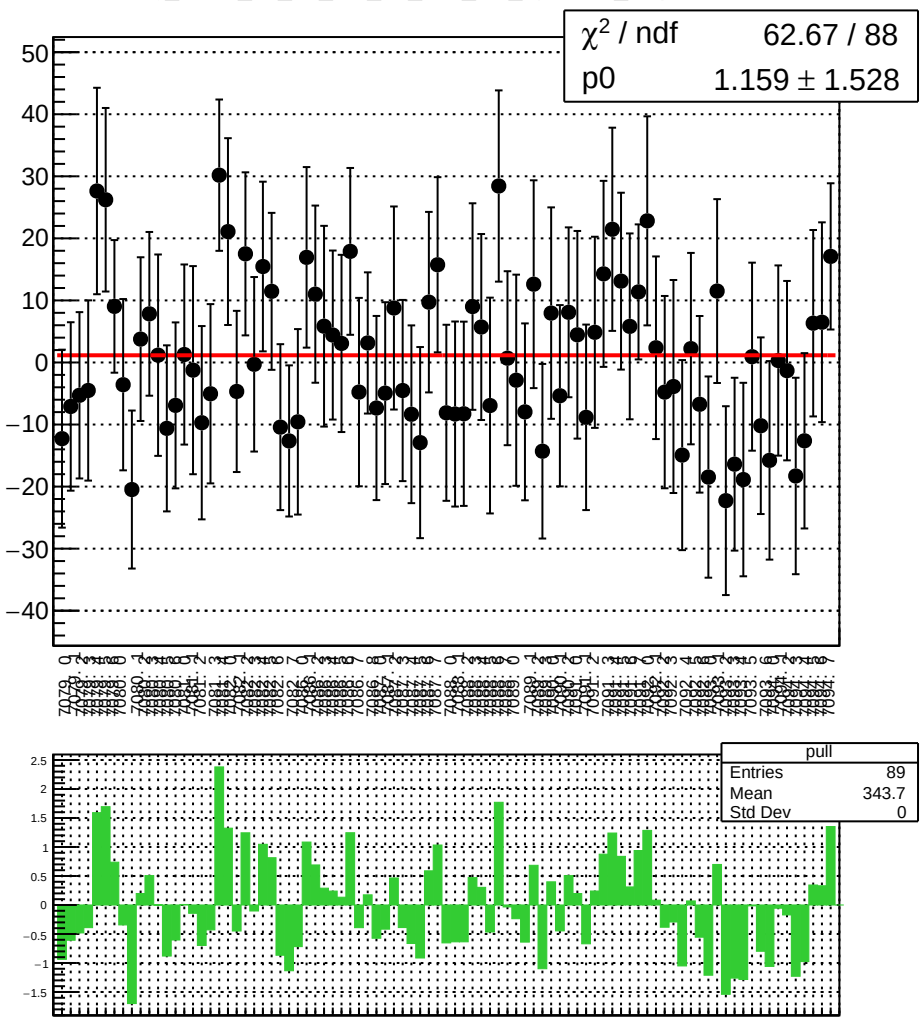

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 102.4 / 88
p0 −19.62 ± 2.036
pull
Entries 89
Mean 94.99
Std Dev 0

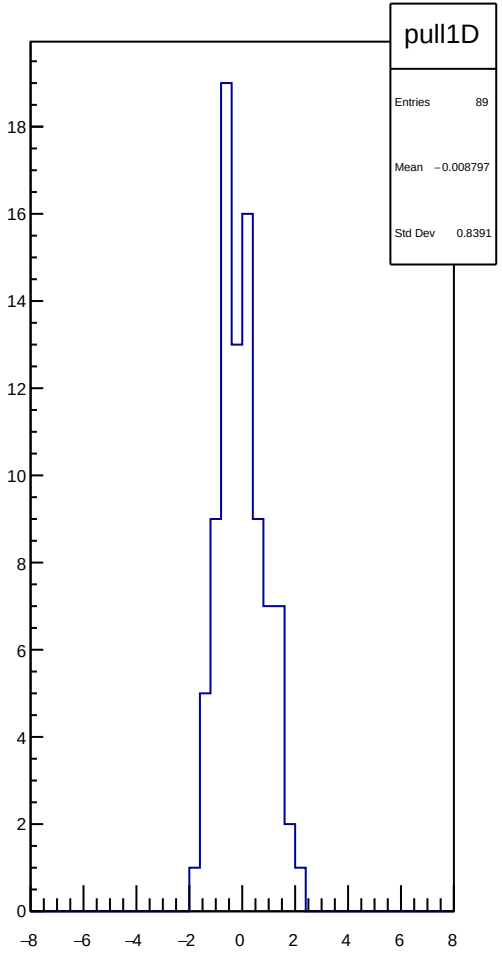

pull1D
Entries 89
Mean 0.04913
Std Dev 1.071

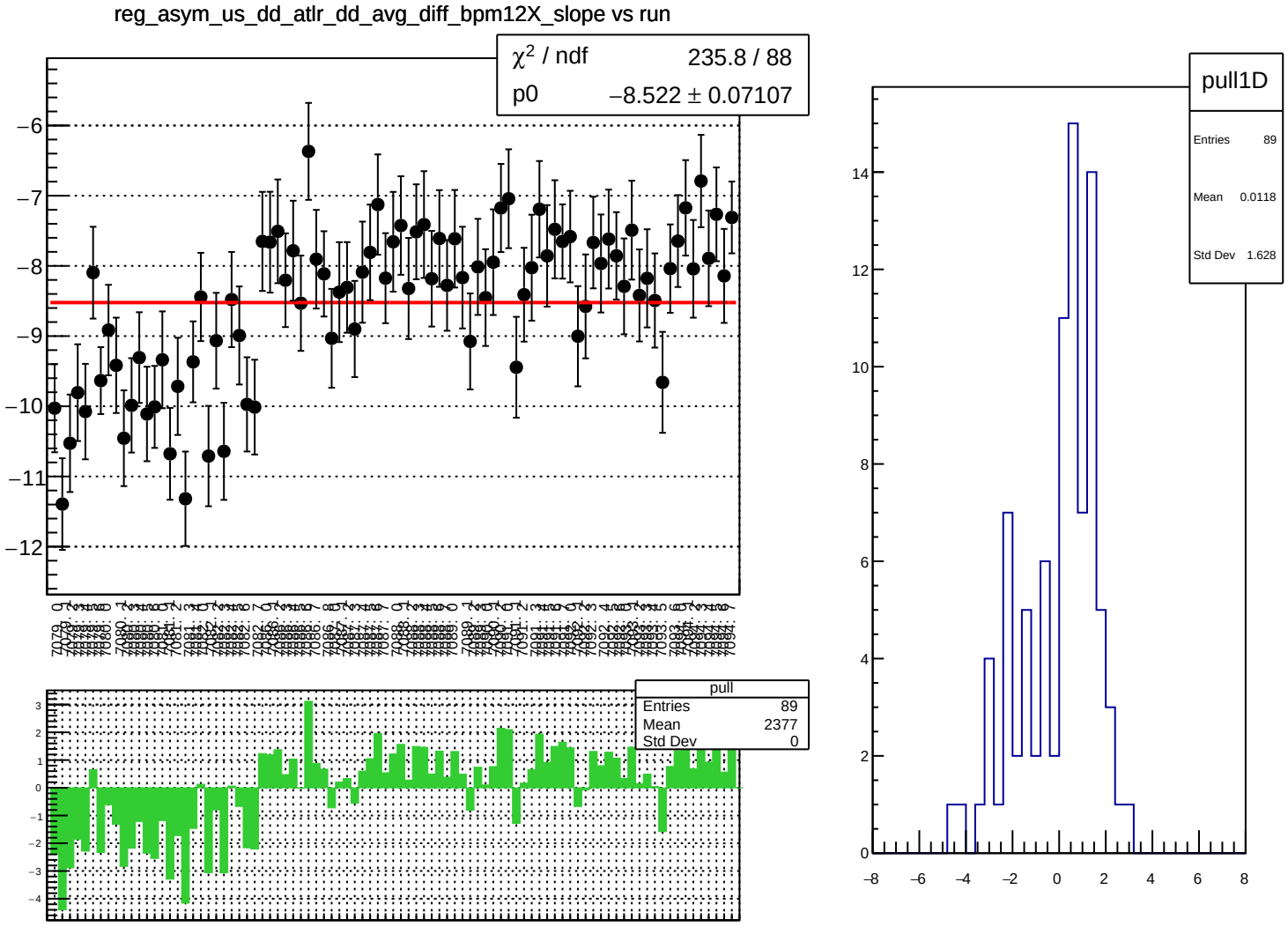

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.39 / 88
p0 4.915 ± 1.457
pull
Entries 89
Mean 190.8
Std Dev 0

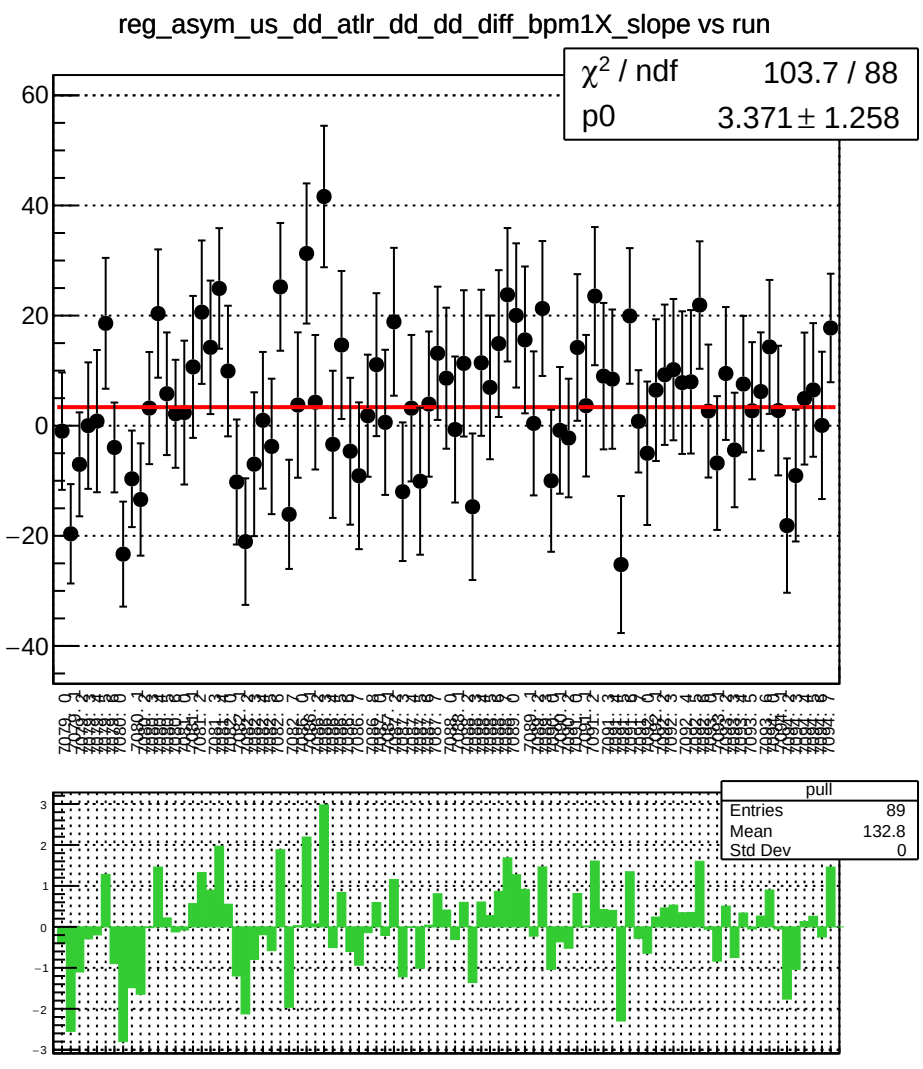

pull1D
Entries 89
Mean 0.01094
Std Dev 0.8237

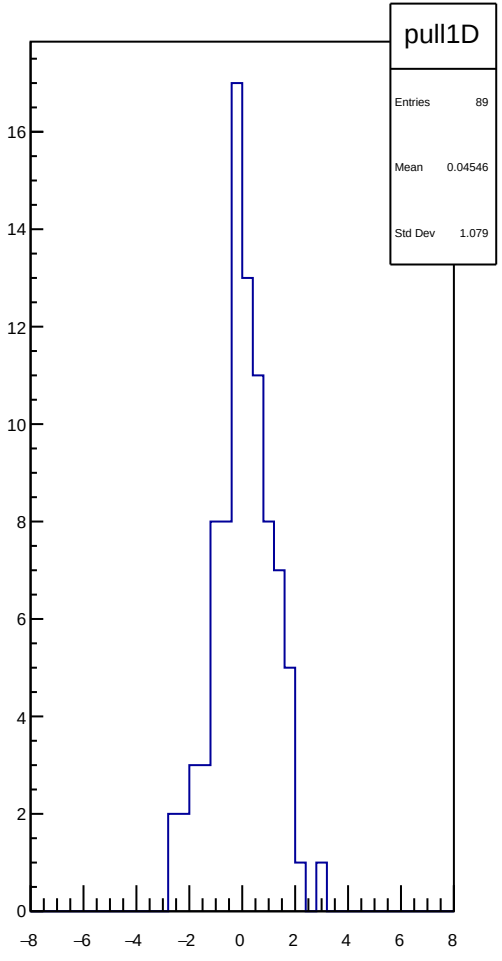

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.1 / 88
p0 −59.15 ± 1.961
pull
Entries 89
Mean 99
Std Dev 0
pull1D
Entries 89
Mean −0.05089
Std Dev 1.049

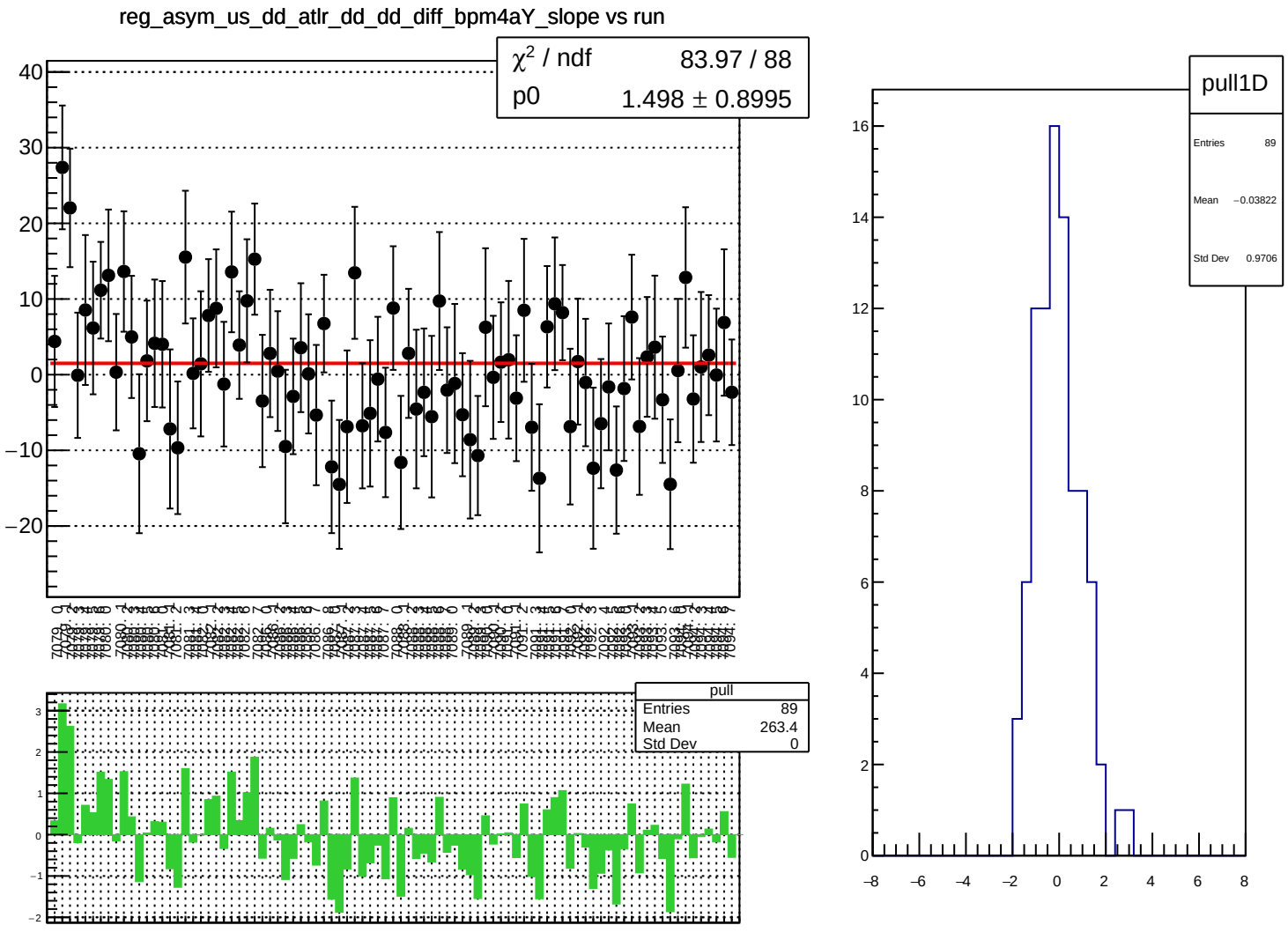

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 62.67 / 88
p0 1.159 ± 1.528
pull
Entries 89
Mean 343.7
Std Dev 0

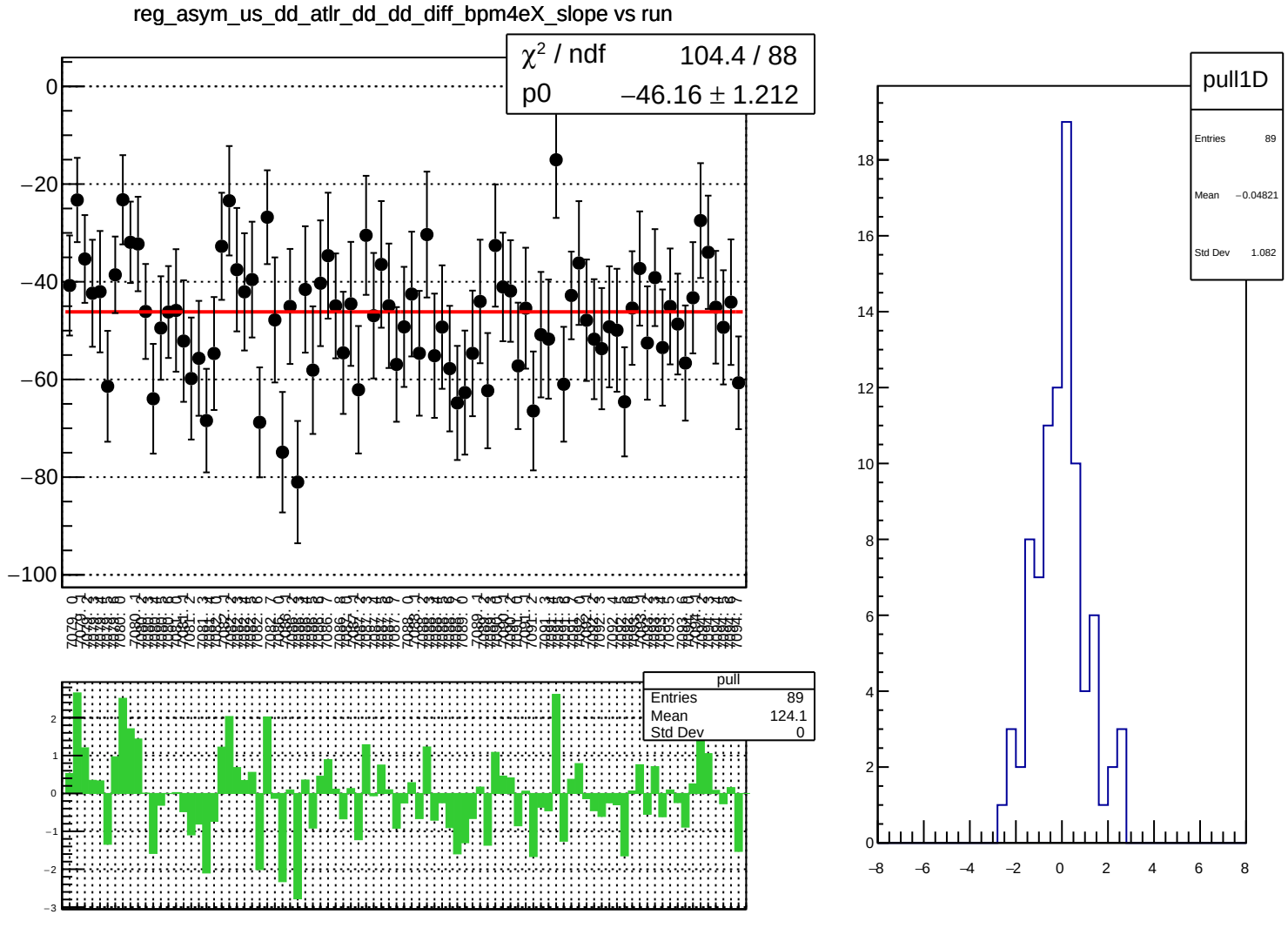

pull1D
Entries 89
Mean −0.008797
Std Dev 0.8391

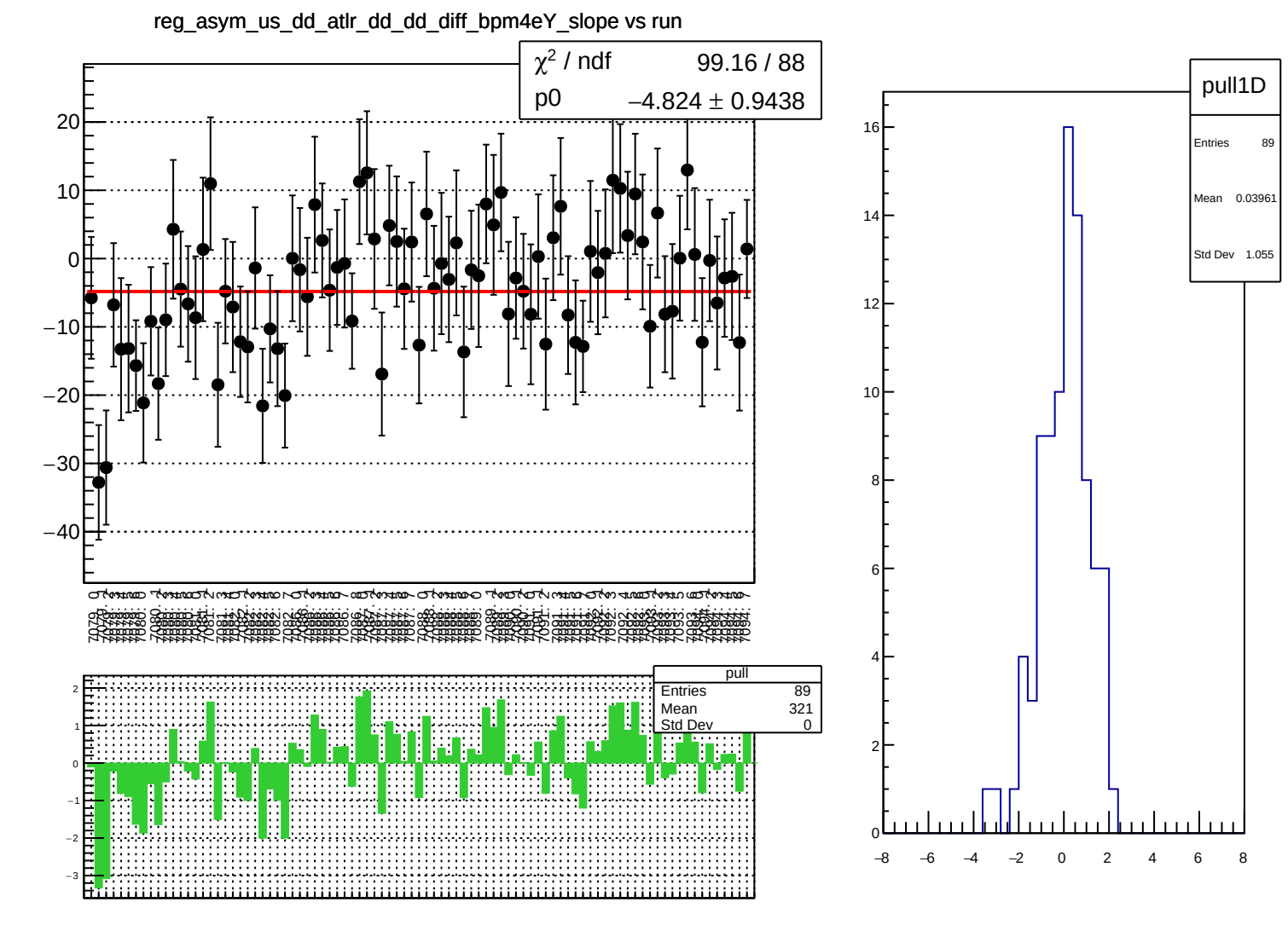

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 235.8 / 88
p0 −8.522 ± 0.07107
pull
Entries 89
Mean 2377
Std Dev 0
pull1D
Entries 89
Mean 0.0118
Std Dev 1.628

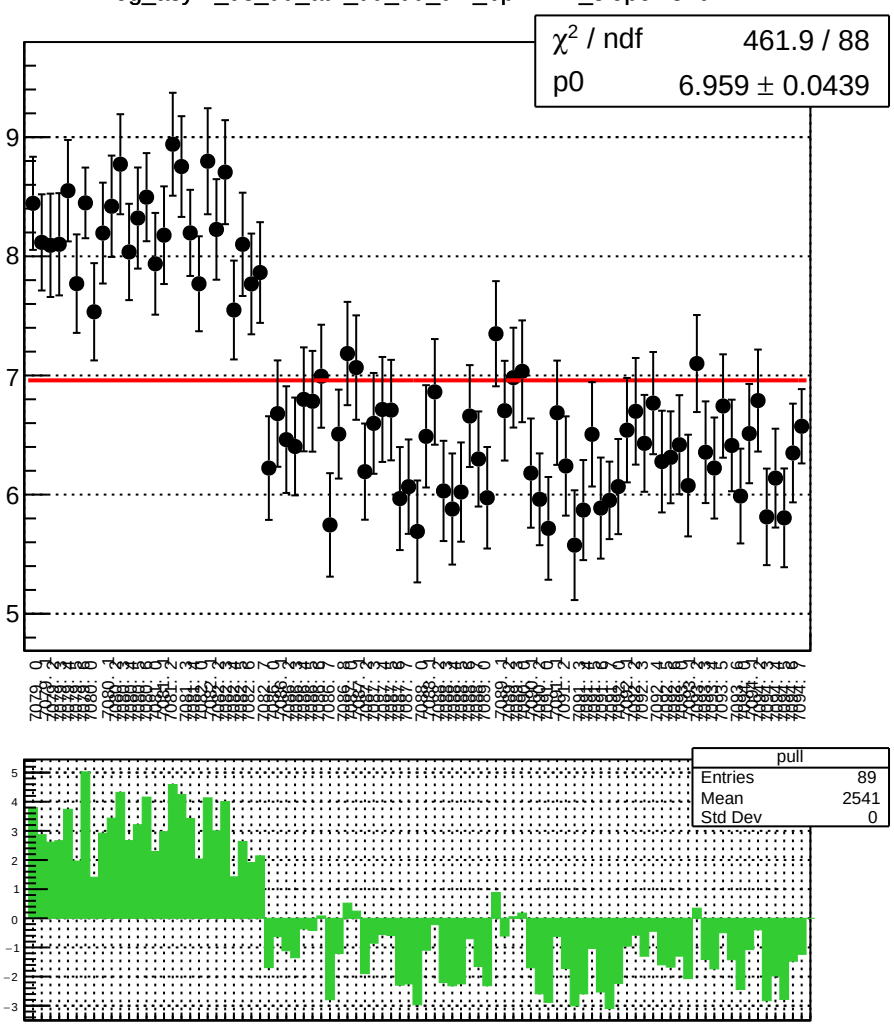

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 103.7 / 88
p0 3.371 ± 1.258
pull
Entries 89
Mean 132.8
Std Dev 0

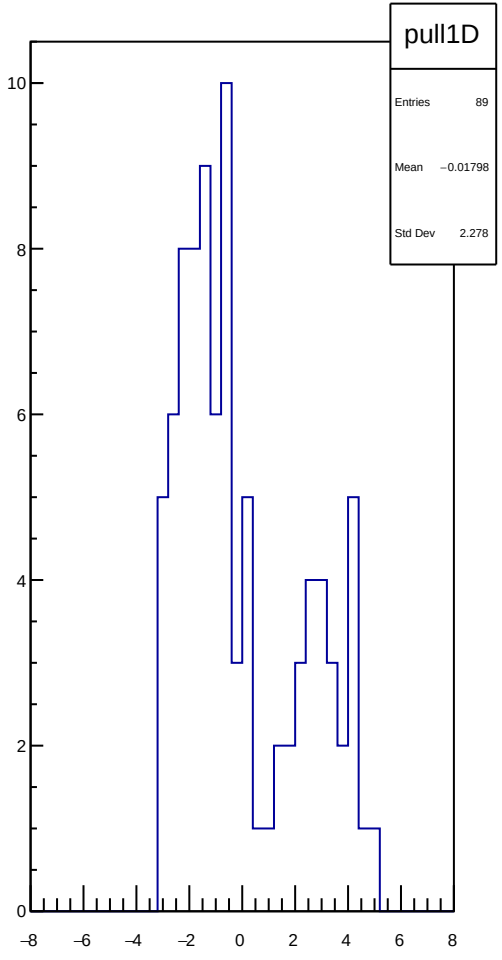

pull1D
Entries 89
Mean 0.04546
Std Dev 1.079

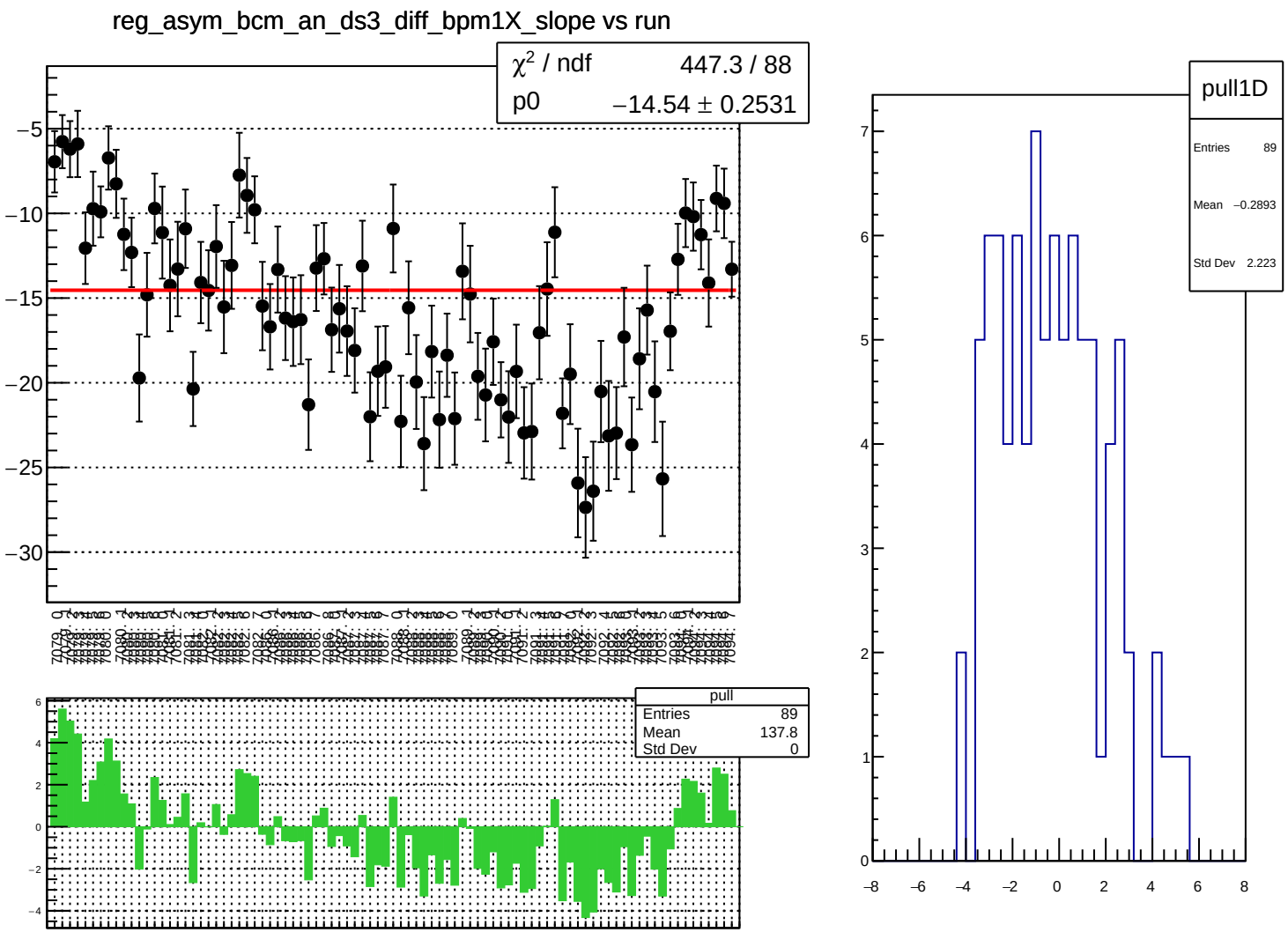

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.97 / 88
p0 1.498 ± 0.8995
pull
Entries 89
Mean 263.4
Std Dev 0
pull1D
Entries 89
Mean −0.03822
Std Dev 0.9706

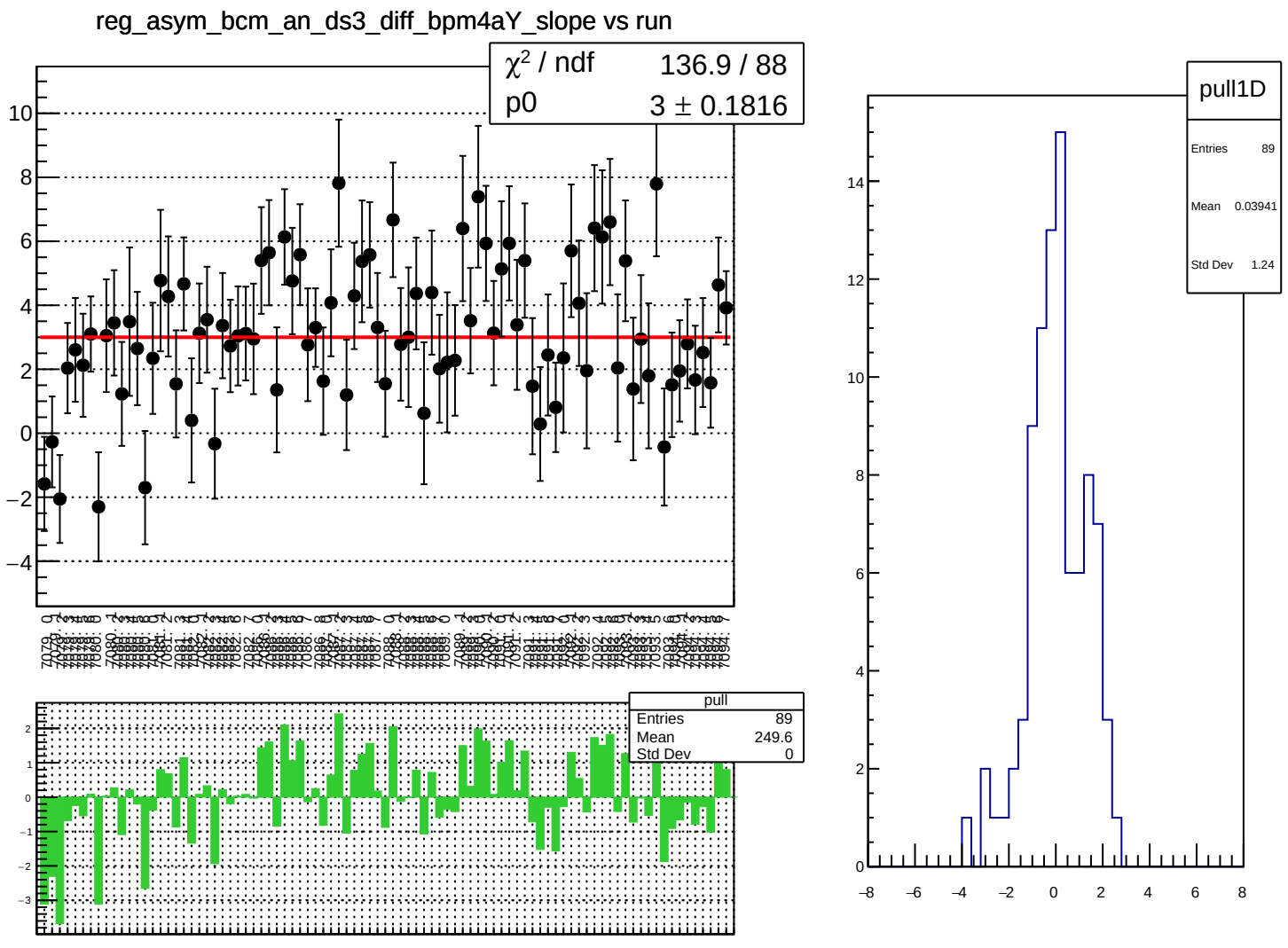

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 104.4 / 88
p0 −46.16 ± 1.212
pull
Entries 89
Mean 124.1
Std Dev 0
pull1D
Entries 89
Mean −0.04821
Std Dev 1.082

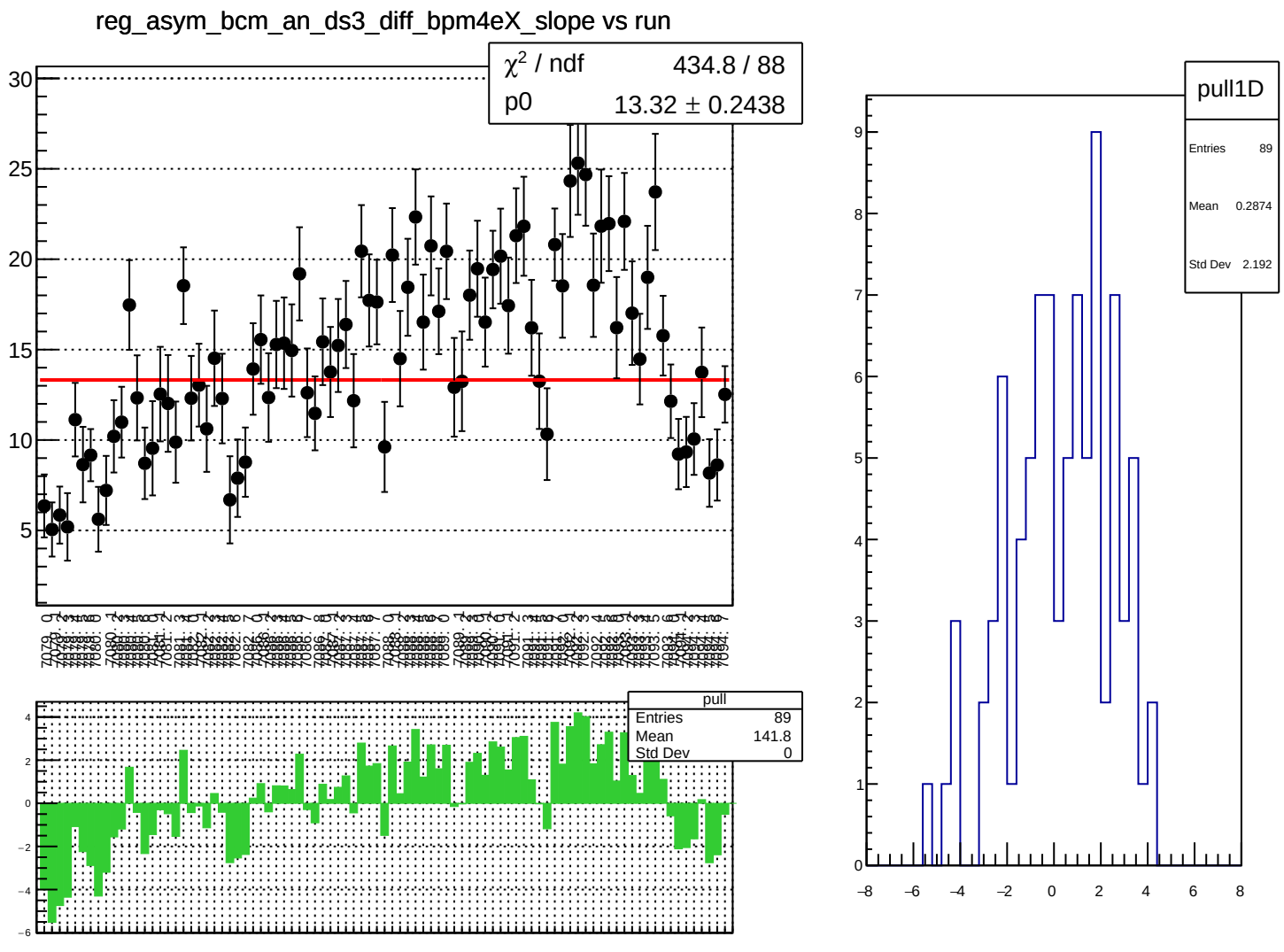

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.16 / 88
p0 −4.824 ± 0.9438
pull
Entries 89
Mean 321
Std Dev 0
pull1D
Entries 89
Mean 0.03961
Std Dev 1.055

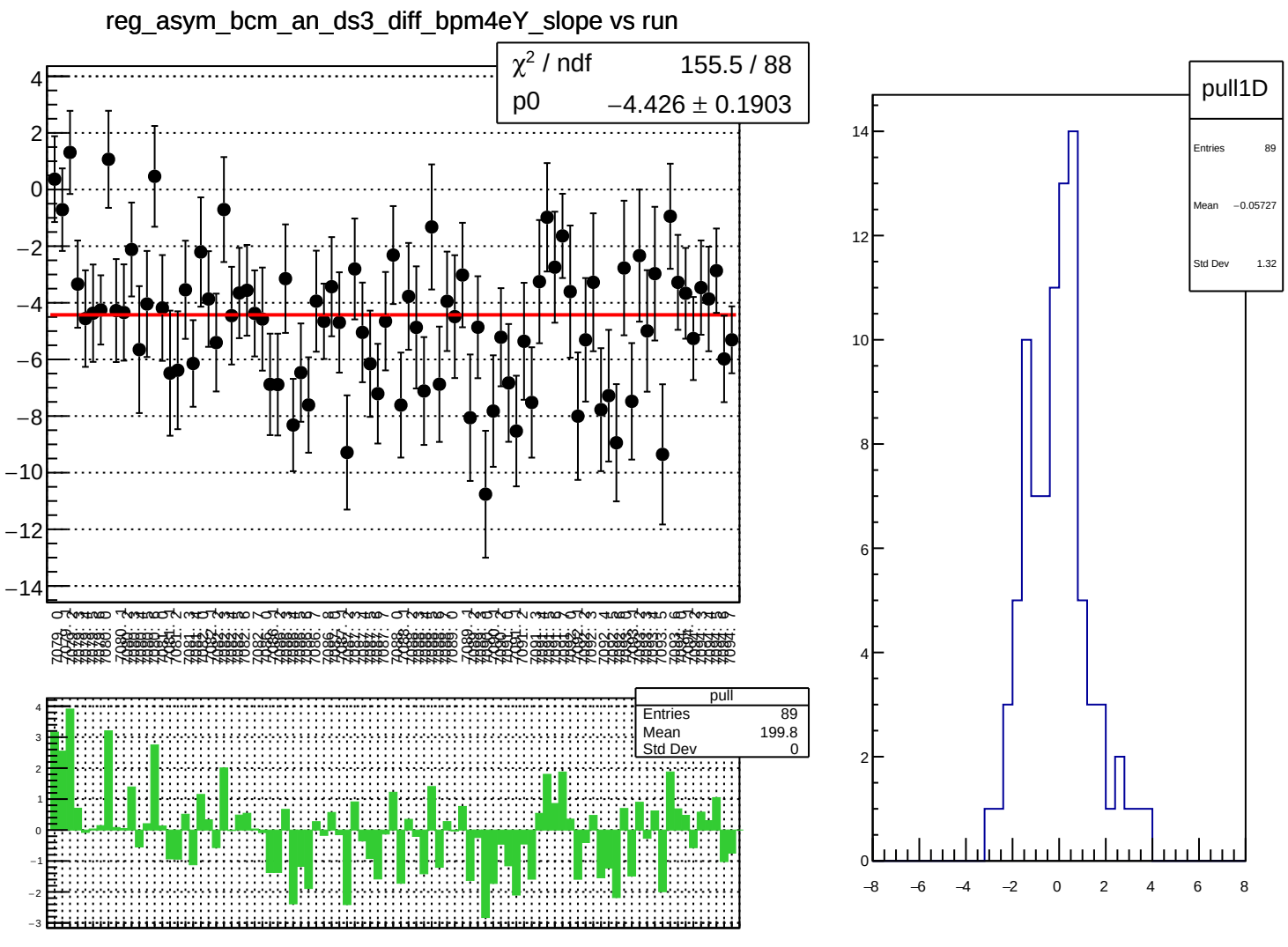

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 461.9 / 88
p0 6.959 ± 0.0439
pull
Entries 89
Mean 2541
Std Dev 0

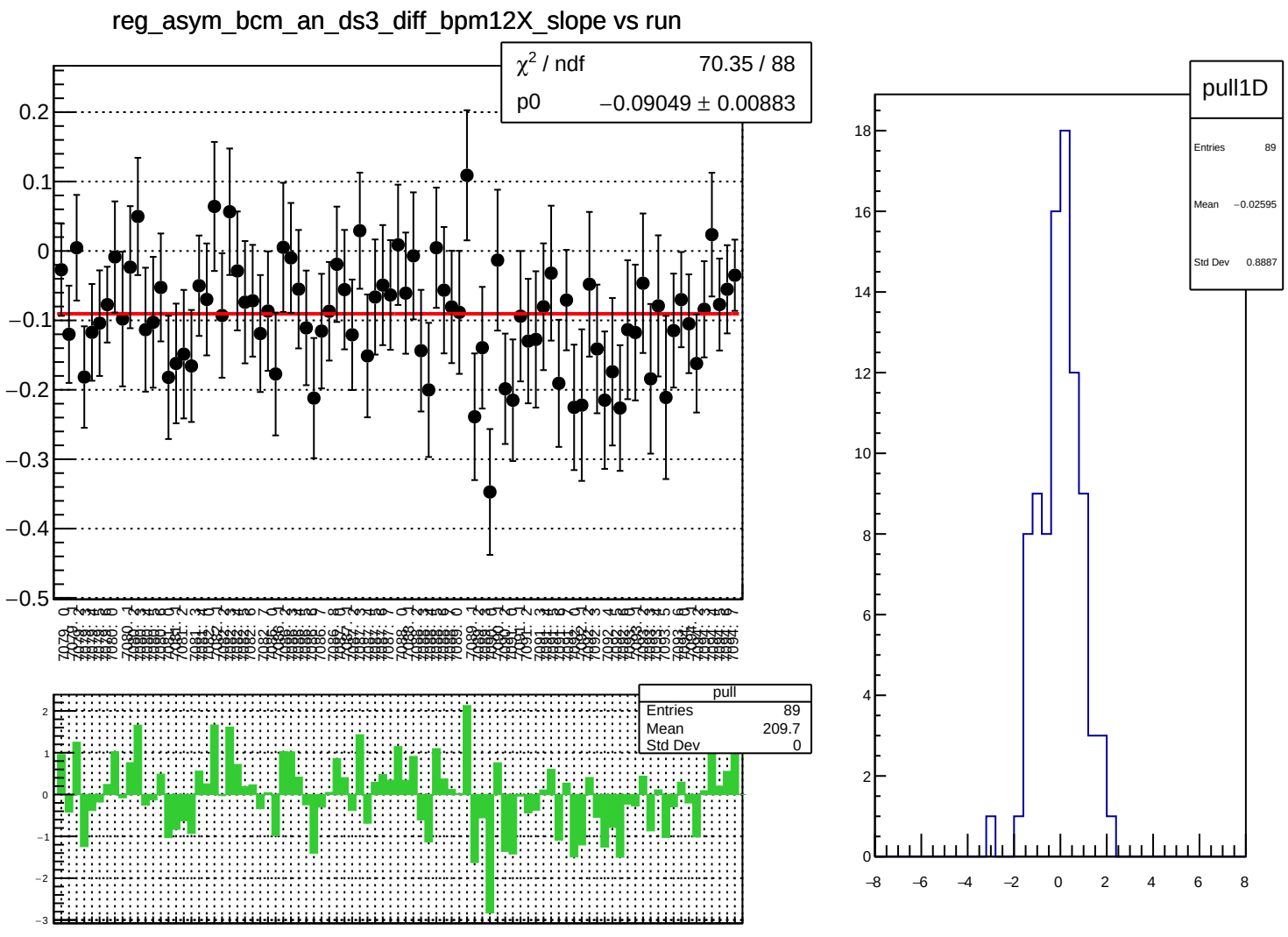

pull1D
Entries 89
Mean −0.01798
Std Dev 2.278

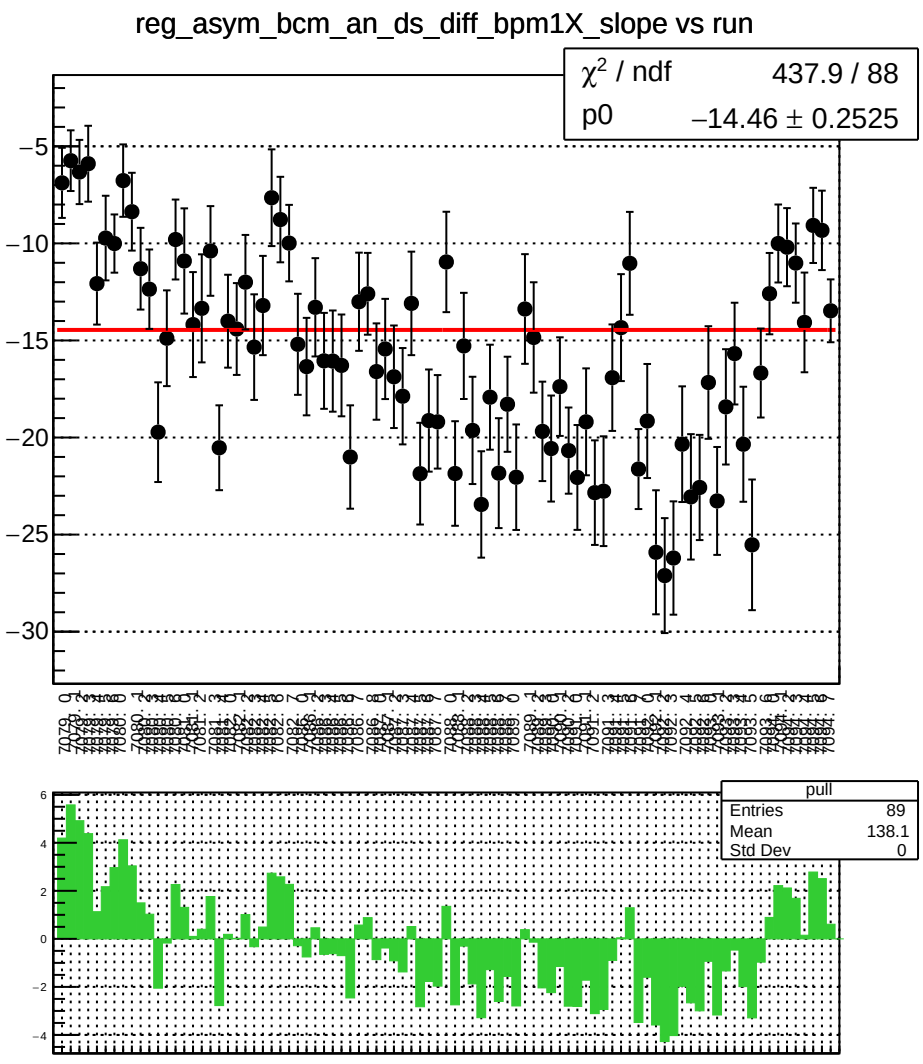

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 447.3 / 88
p0 −14.54 ± 0.2531
pull
Entries 89
Mean 137.8
Std Dev 0
pull1D
Entries 89
Mean −0.2893
Std Dev 2.223

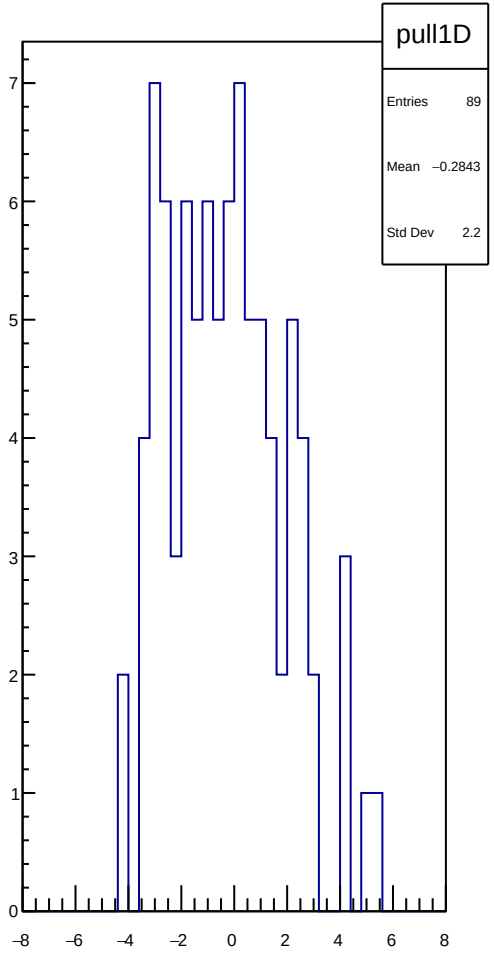

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 136.9 / 88
p0 3 ± 0.1816
pull
Entries 89
Mean 249.6
Std Dev 0
pull1D
Entries 89
Mean 0.03941
Std Dev 1.24

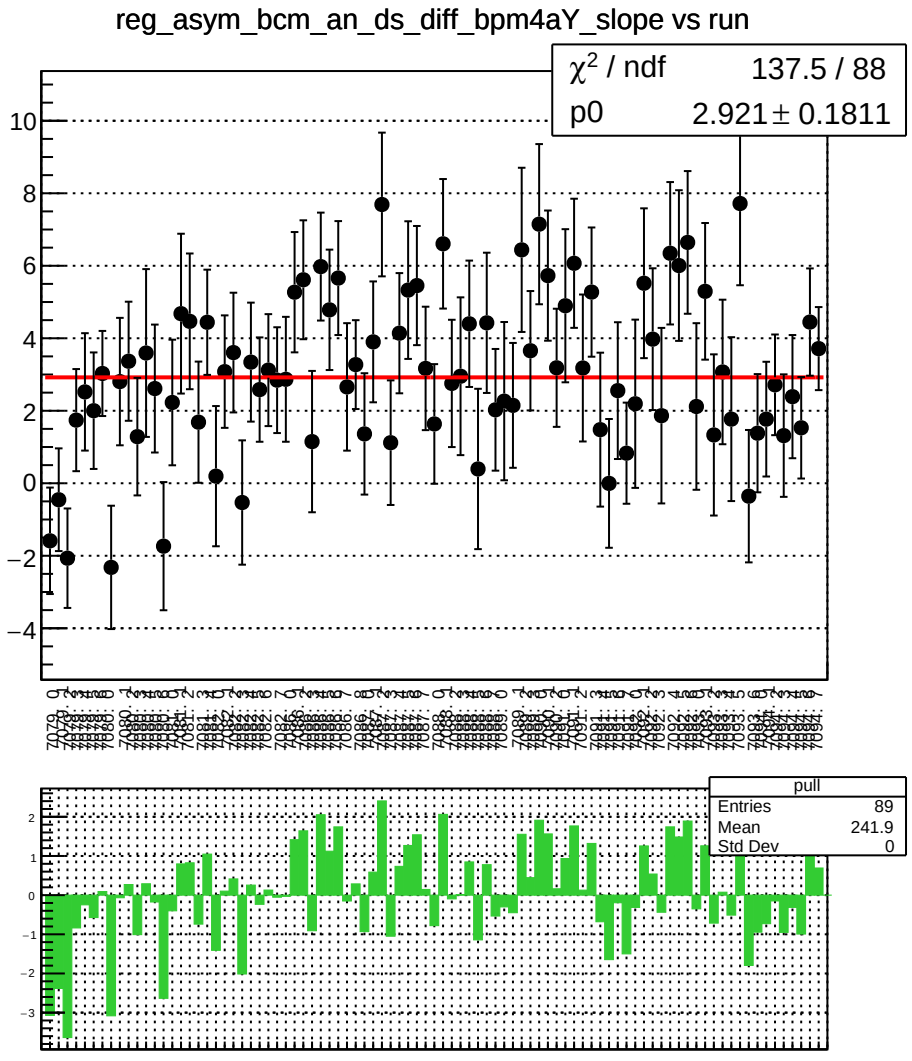

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 434.8 / 88
p0 13.32 ± 0.2438
pull
Entries 89
Mean 141.8
Std Dev 0
pull1D
Entries 89
Mean 0.2874
Std Dev 2.192

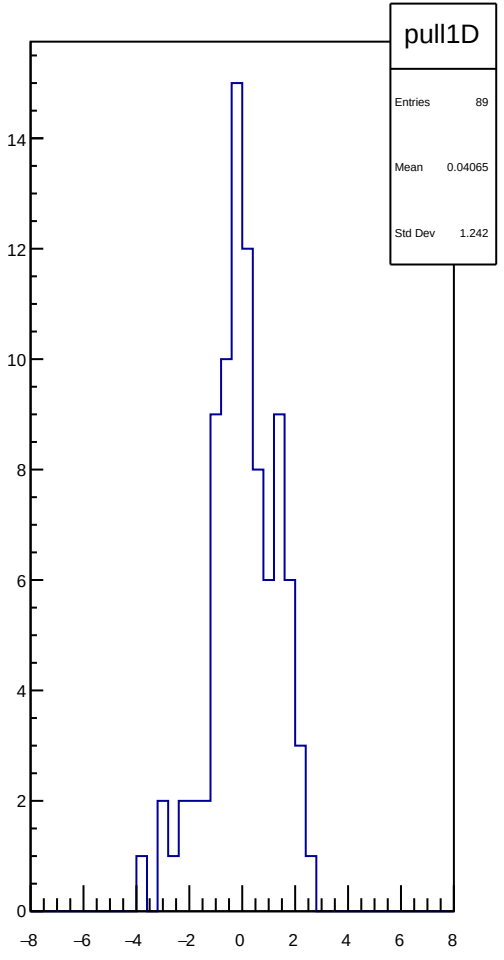

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 155.5 / 88
p0 −4.426 ± 0.1903
pull
Entries 89
Mean 199.8
Std Dev 0
pull1D
Entries 89
Mean −0.05727
Std Dev 1.32

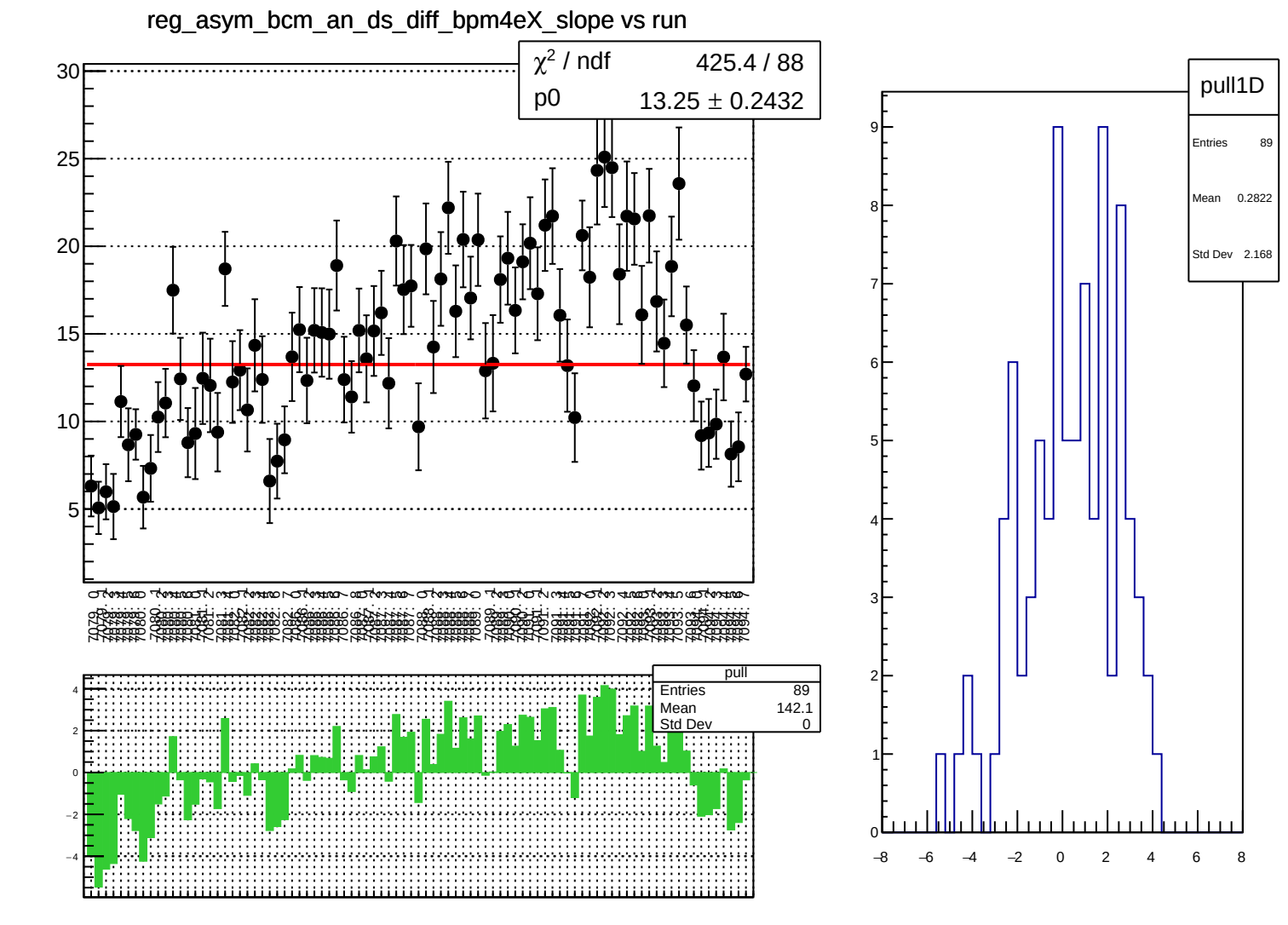

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 70.35 / 88
p0 −0.09049 ± 0.00883
pull
Entries 89
Mean 209.7
Std Dev 0
pull1D
Entries 89
Mean −0.02595
Std Dev 0.8887

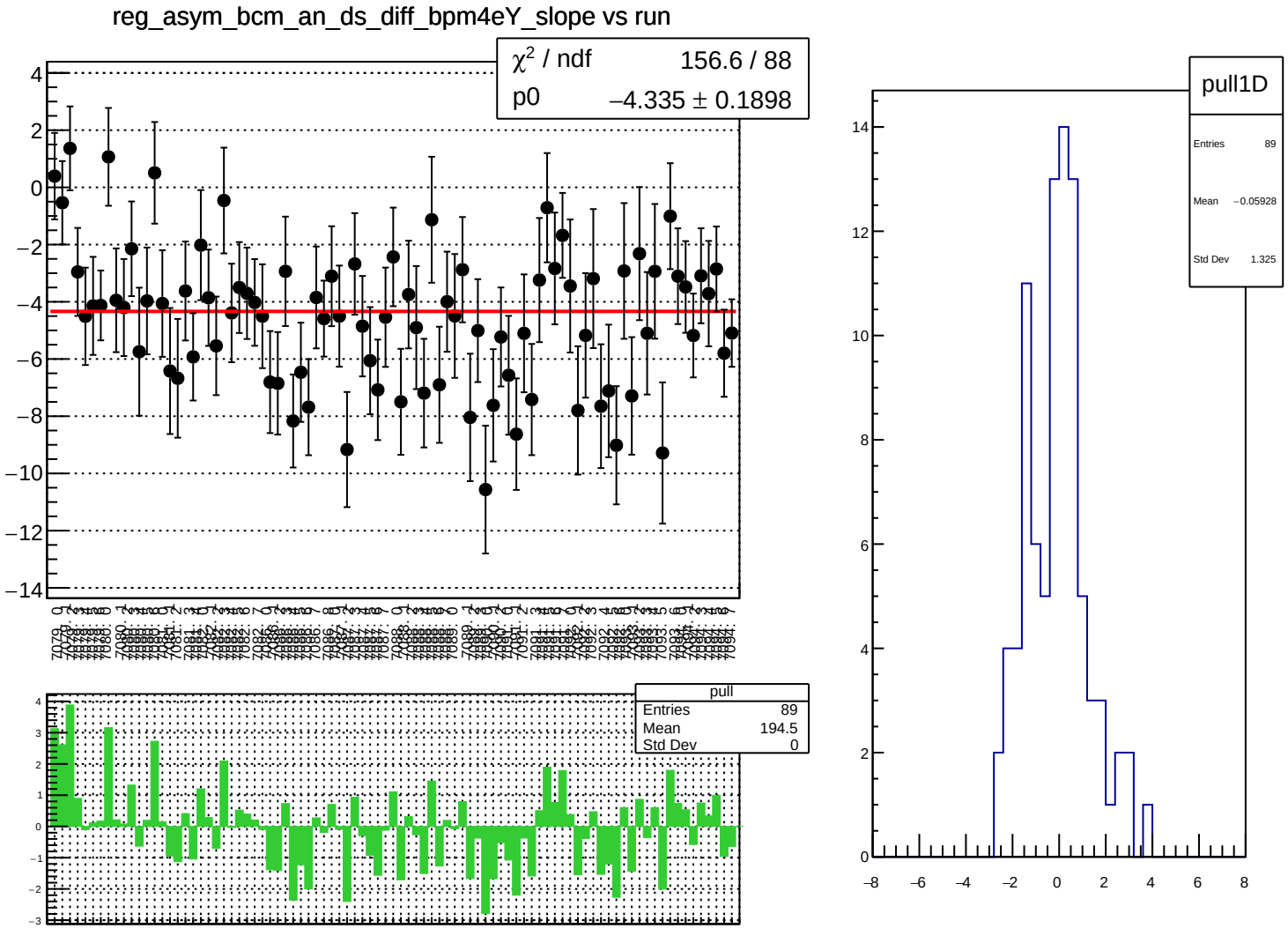

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 437.9 / 88
p0 −14.46 ± 0.2525
pull
Entries 89
Mean 138.1
Std Dev 0

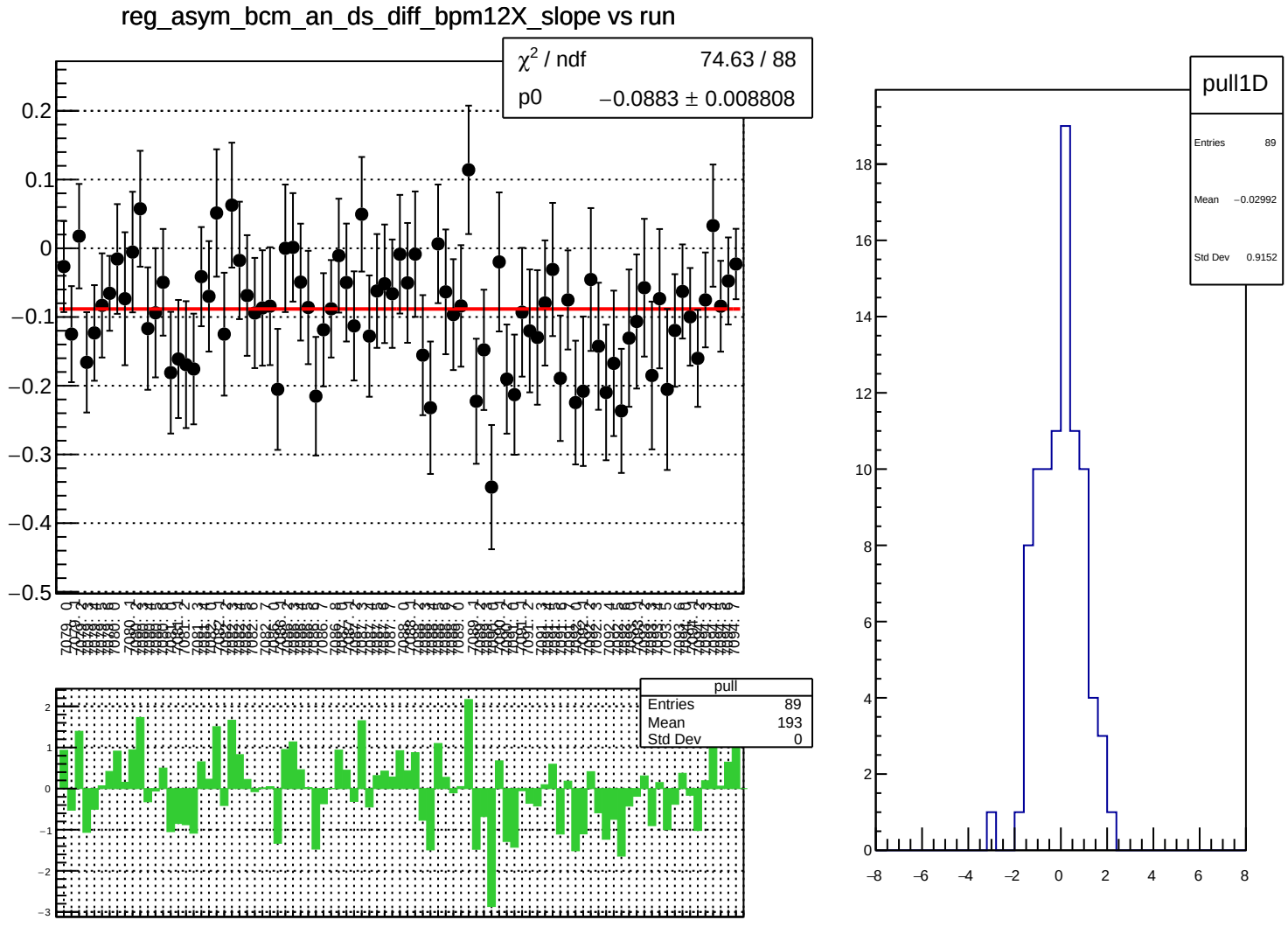

pull1D
Entries 89
Mean −0.2843
Std Dev 2.2

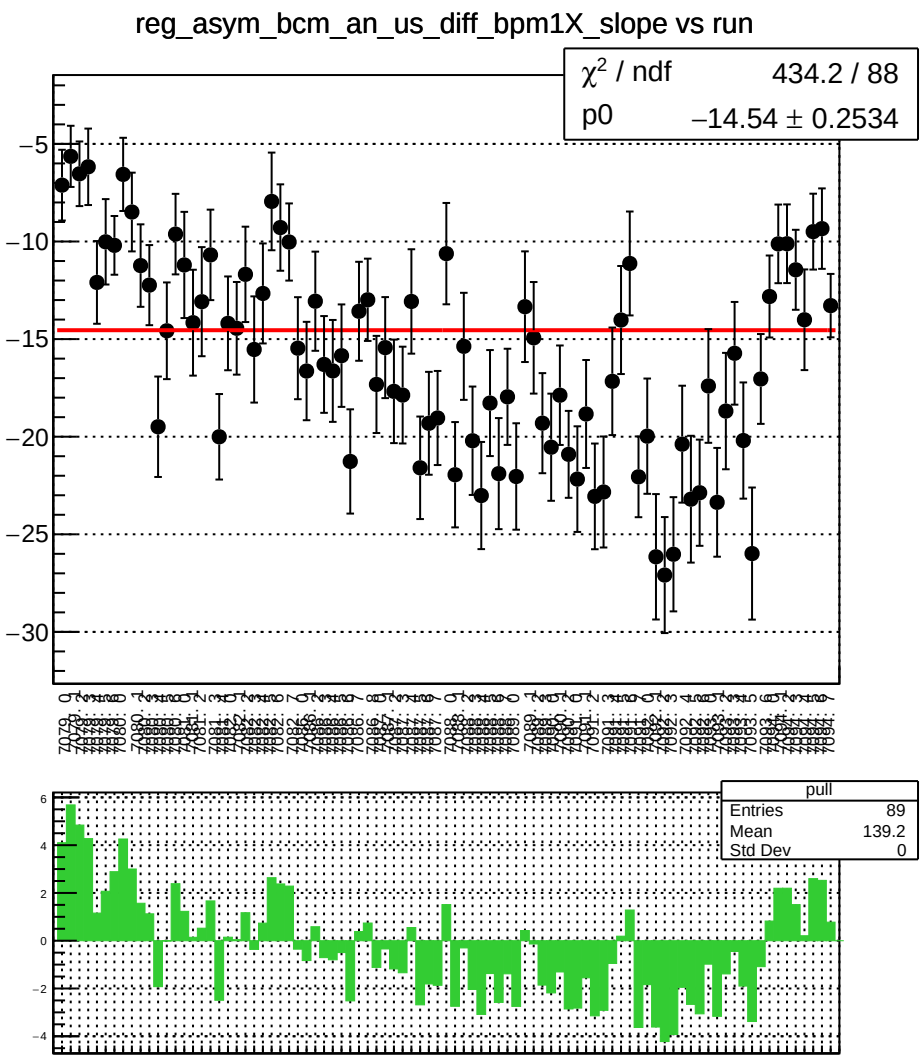

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 137.5 / 88
p0 2.921 ± 0.1811
pull
Entries 89
Mean 241.9
Std Dev 0

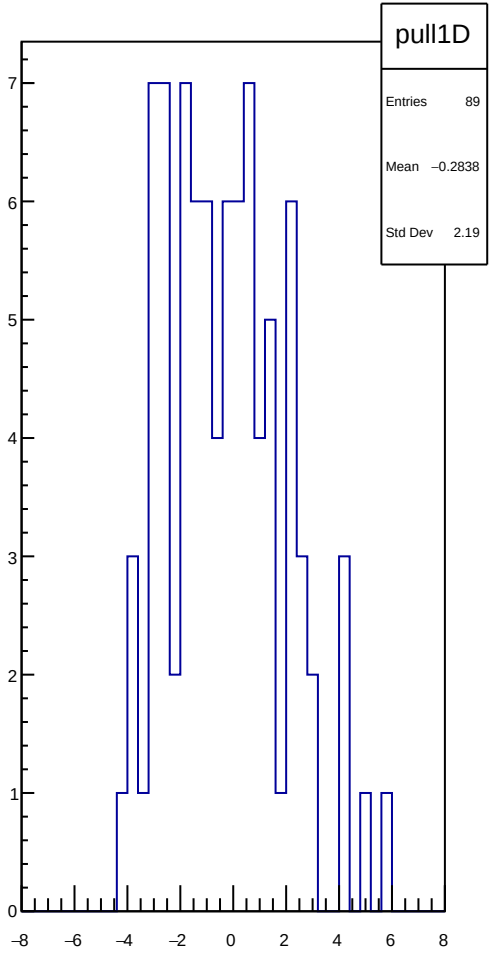

pull1D
Entries 89
Mean 0.04065
Std Dev 1.242

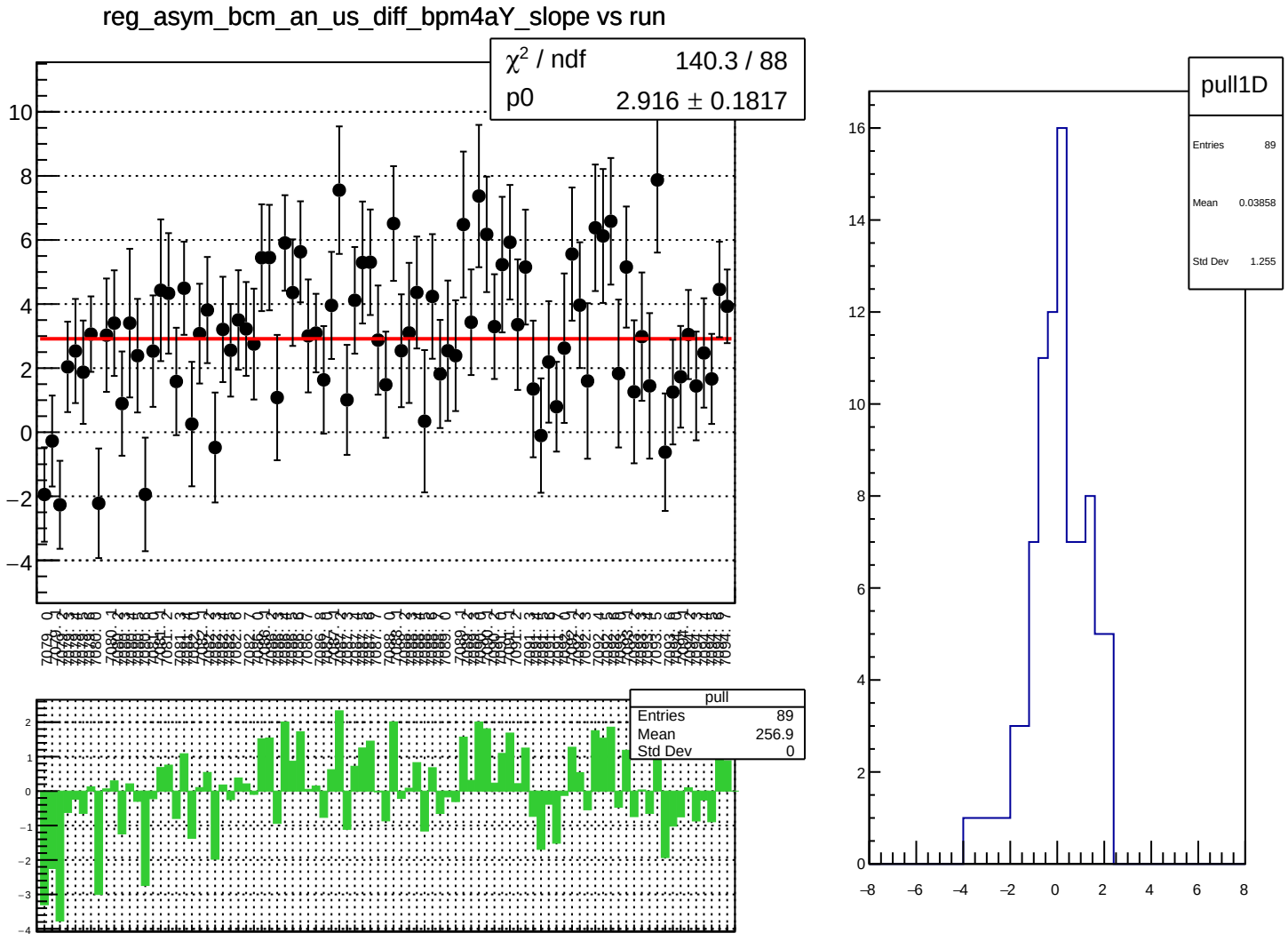

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 425.4 / 88
p0 13.25 ± 0.2432
pull
Entries 89
Mean 142.1
Std Dev 0
pull1D
Entries 89
Mean 0.2822
Std Dev 2.168

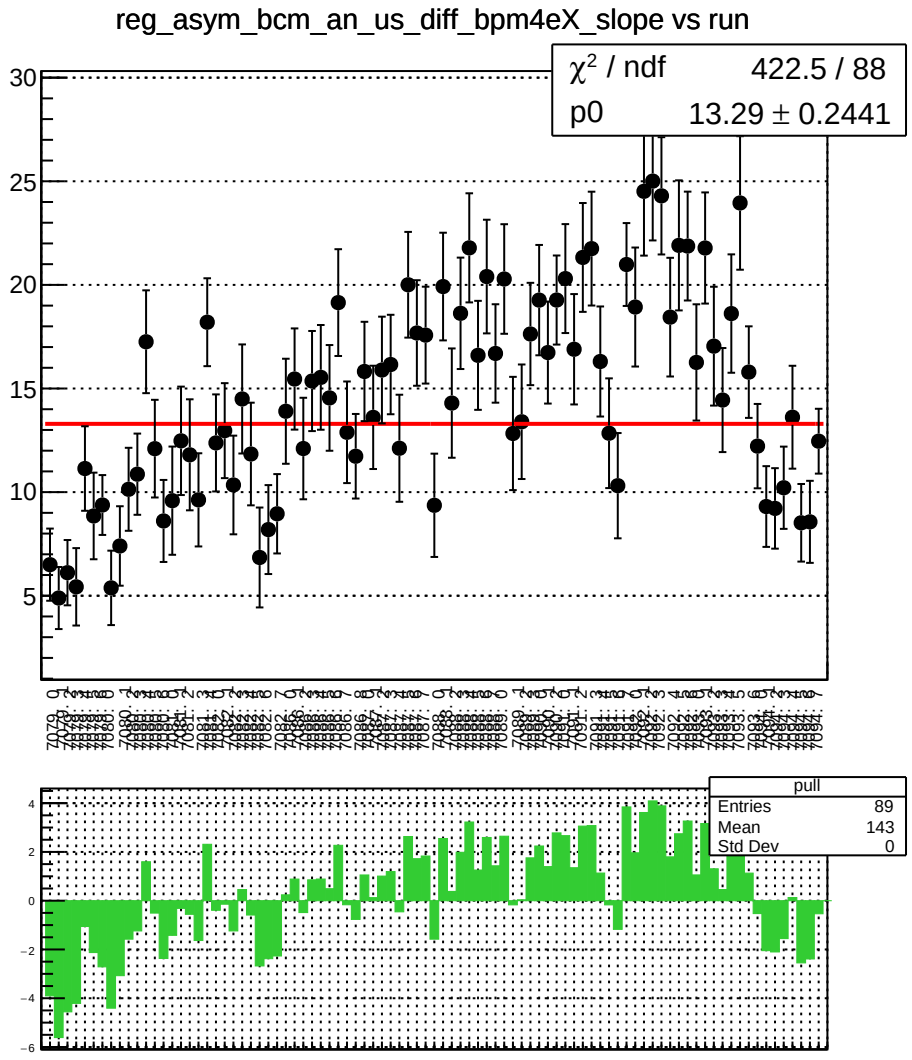

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 156.6 / 88
p0 −4.335 ± 0.1898
pull
Entries 89
Mean 194.5
Std Dev 0
pull1D
Entries 89
Mean −0.05928
Std Dev 1.325

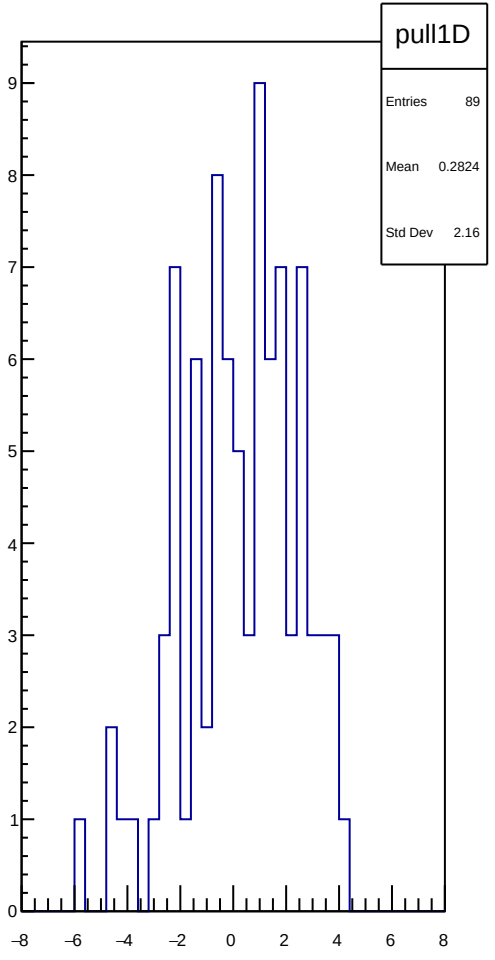

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 74.63 / 88
p0 −0.0883 ± 0.008808
pull
Entries 89
Mean 193
Std Dev 0
pull1D
Entries 89
Mean −0.02992
Std Dev 0.9152

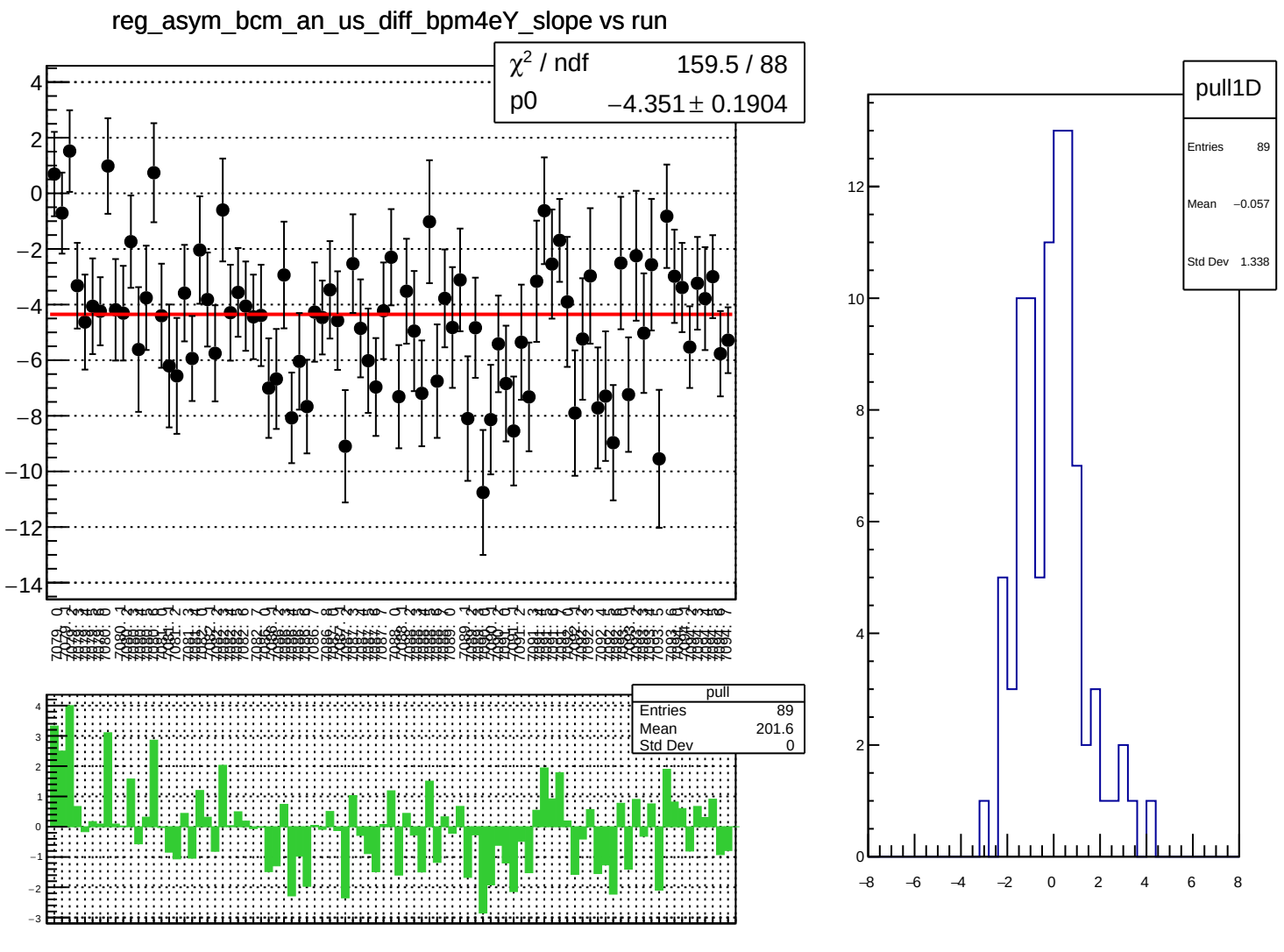

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 434.2 / 88
p0 −14.54 ± 0.2534
pull
Entries 89
Mean 139.2
Std Dev 0

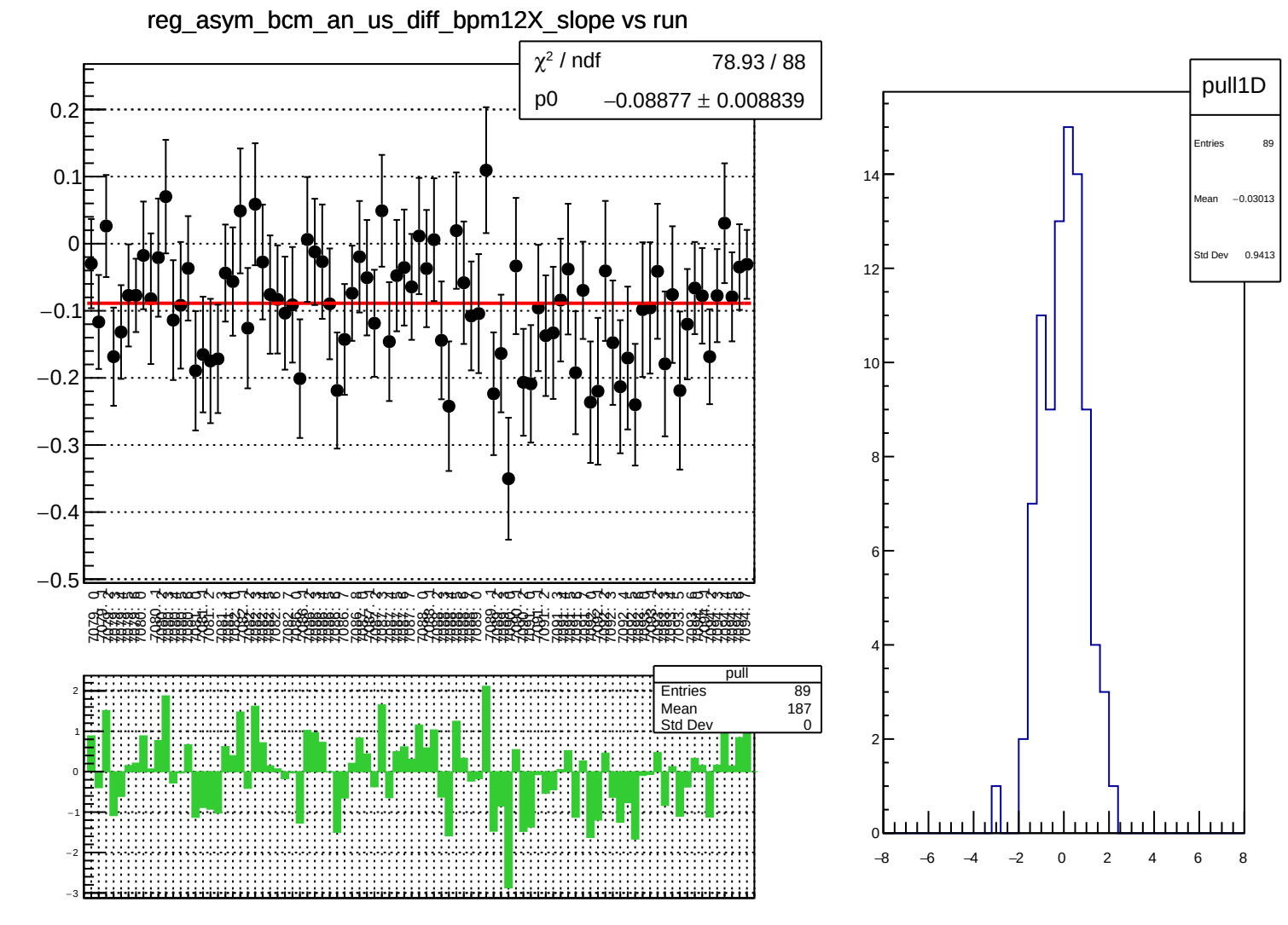

pull1D
Entries 89
Mean −0.2838
Std Dev 2.19

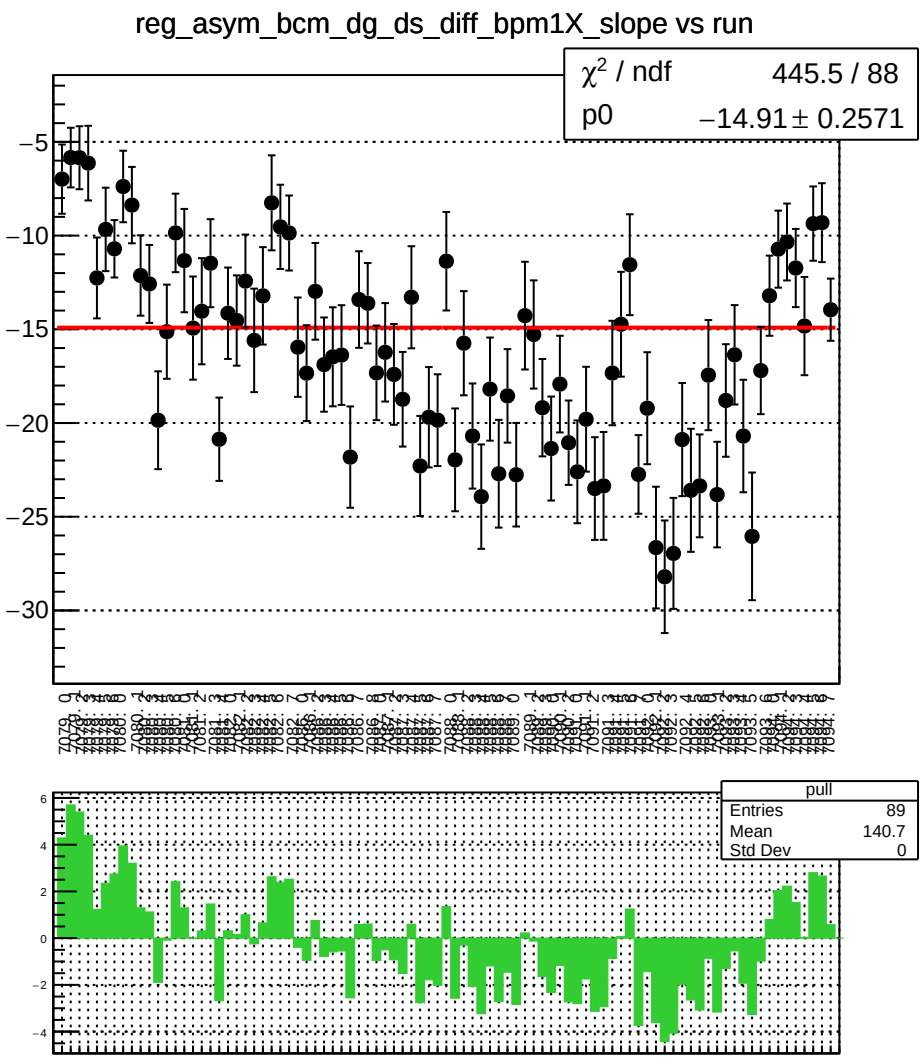

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 140.3 / 88
p0 2.916 ± 0.1817
pull
Entries 89
Mean 256.9
Std Dev 0
pull1D
Entries 89
Mean 0.03858
Std Dev 1.255

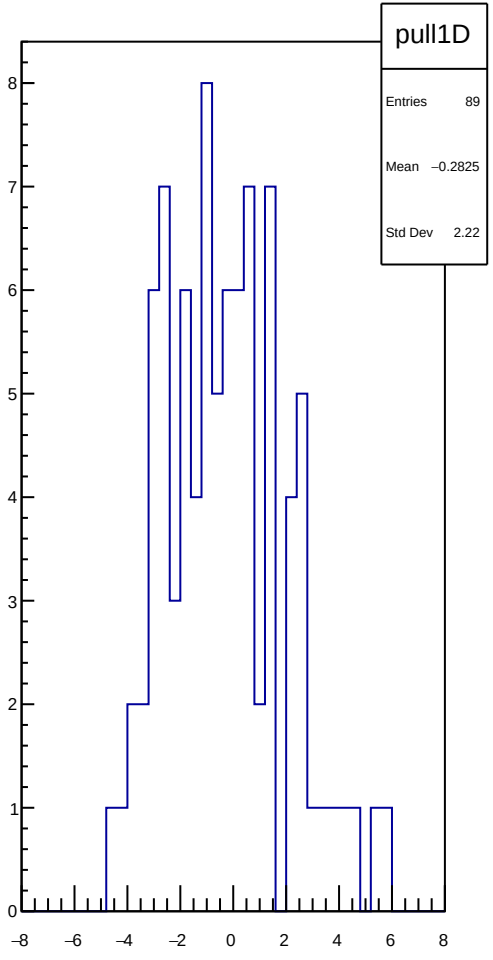

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 422.5 / 88
p0 13.29 ± 0.2441
pull
Entries 89
Mean 143
Std Dev 0

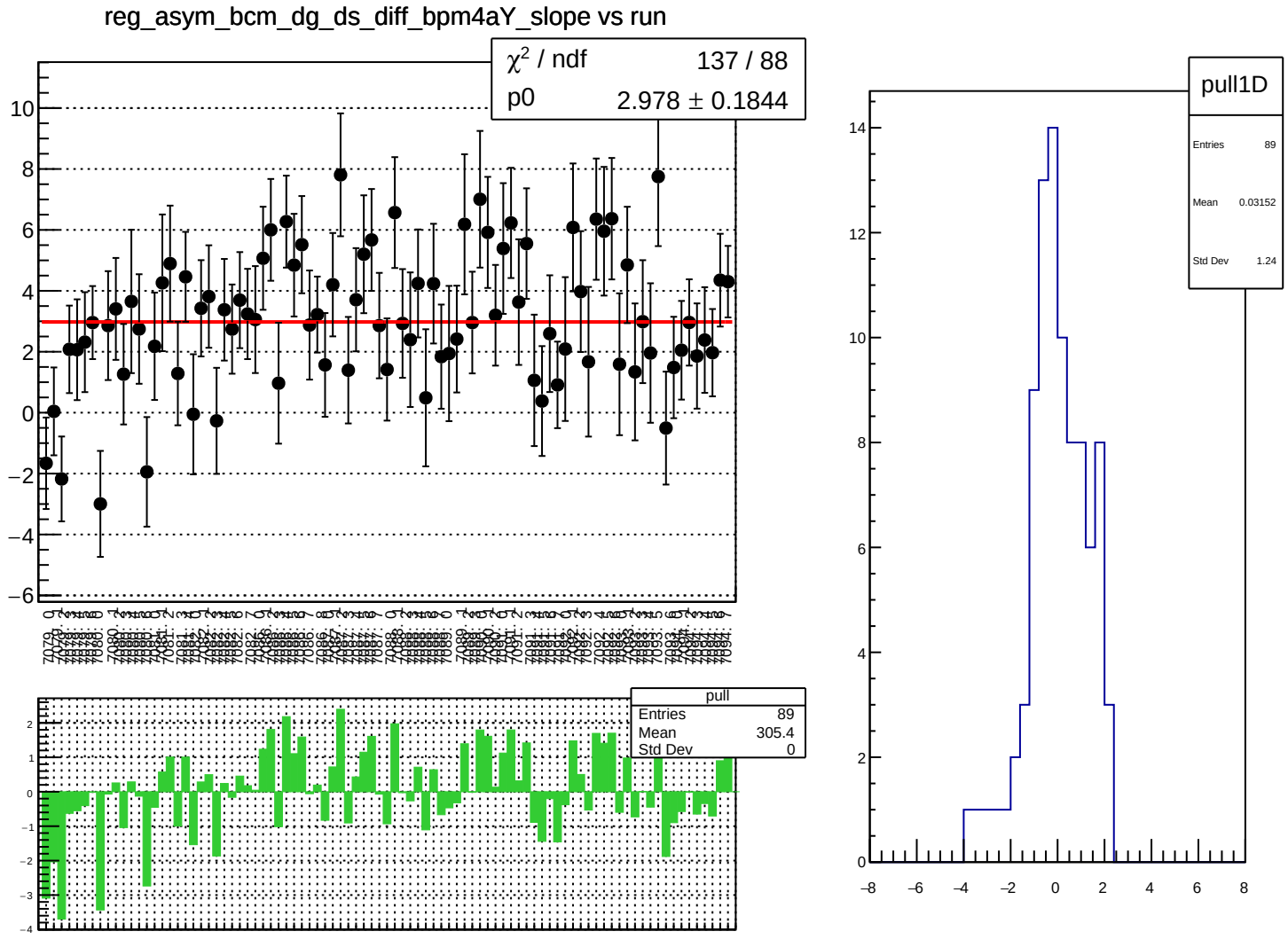

pull1D
Entries 89
Mean 0.2824
Std Dev 2.16

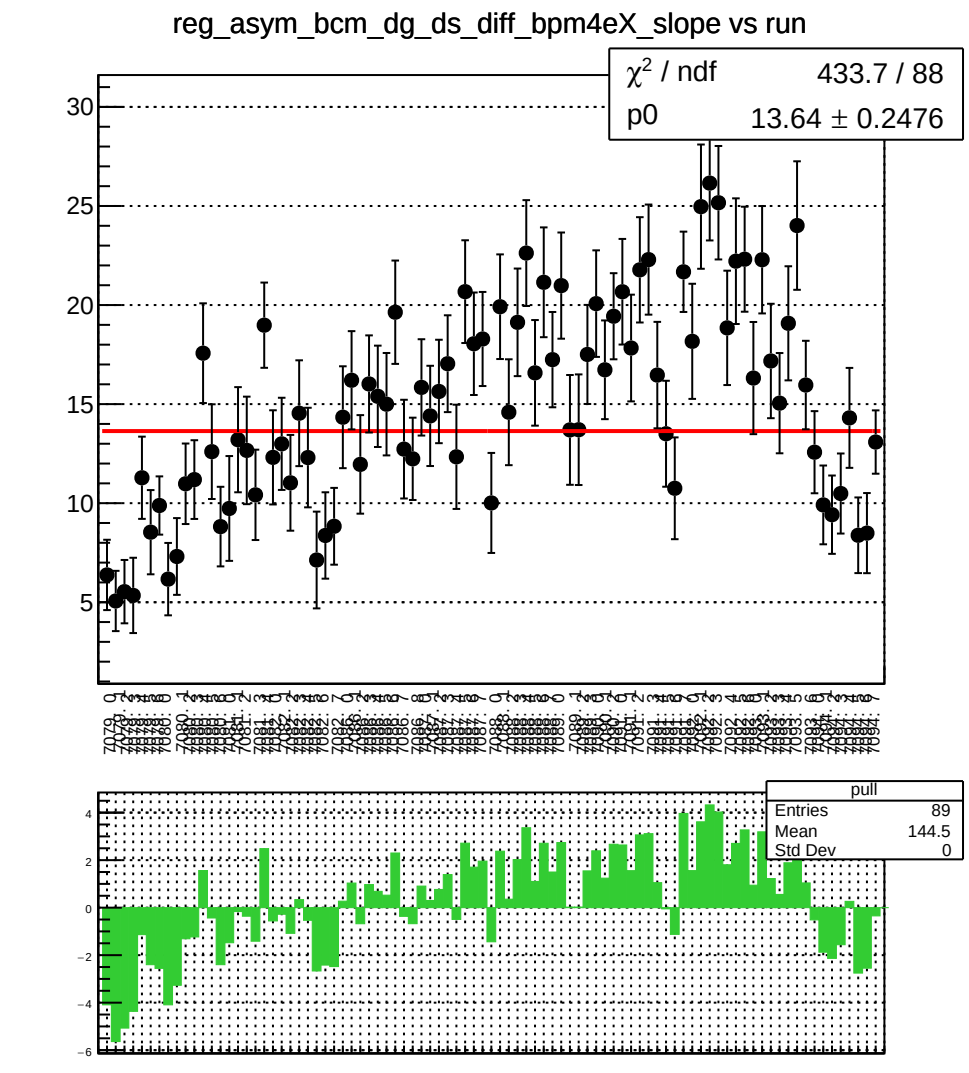

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 159.5 / 88
p0 −4.351 ± 0.1904
pull
Entries 89
Mean 201.6
Std Dev 0
pull1D
Entries 89
Mean −0.057
Std Dev 1.338

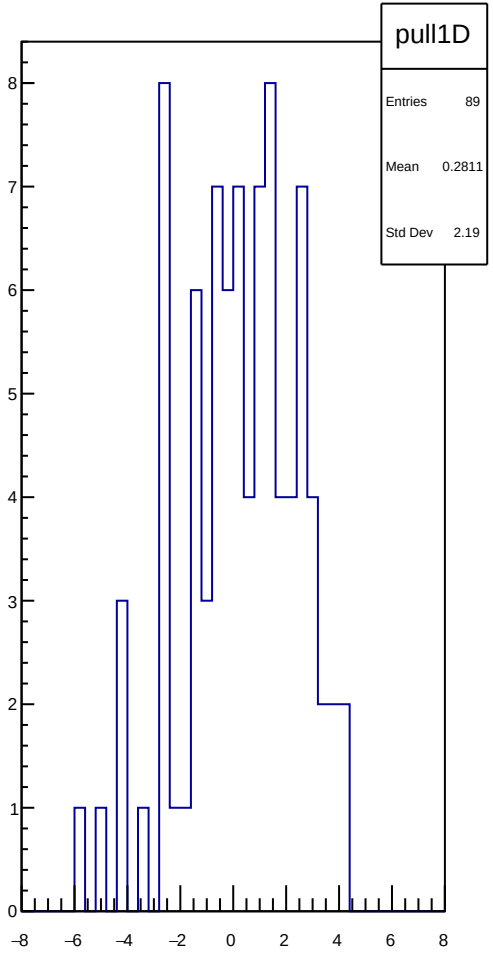

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 78.93 / 88
p0 −0.08877 ± 0.008839
pull
Entries 89
Mean 187
Std Dev 0
pull1D
Entries 89
Mean −0.03013
Std Dev 0.9413

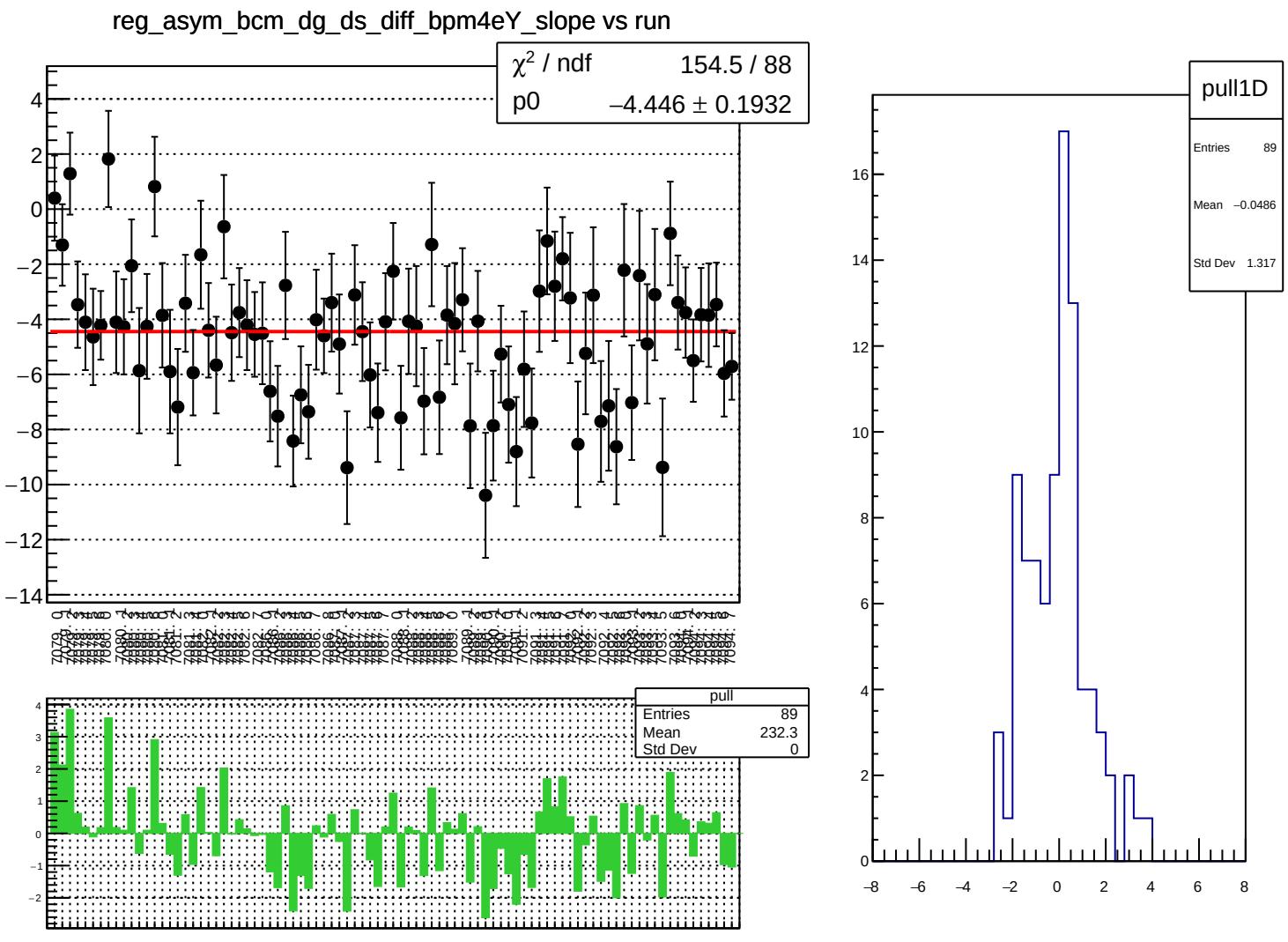

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 445.5 / 88
p0 −14.91 ± 0.2571
pull
Entries 89
Mean 140.7
Std Dev 0

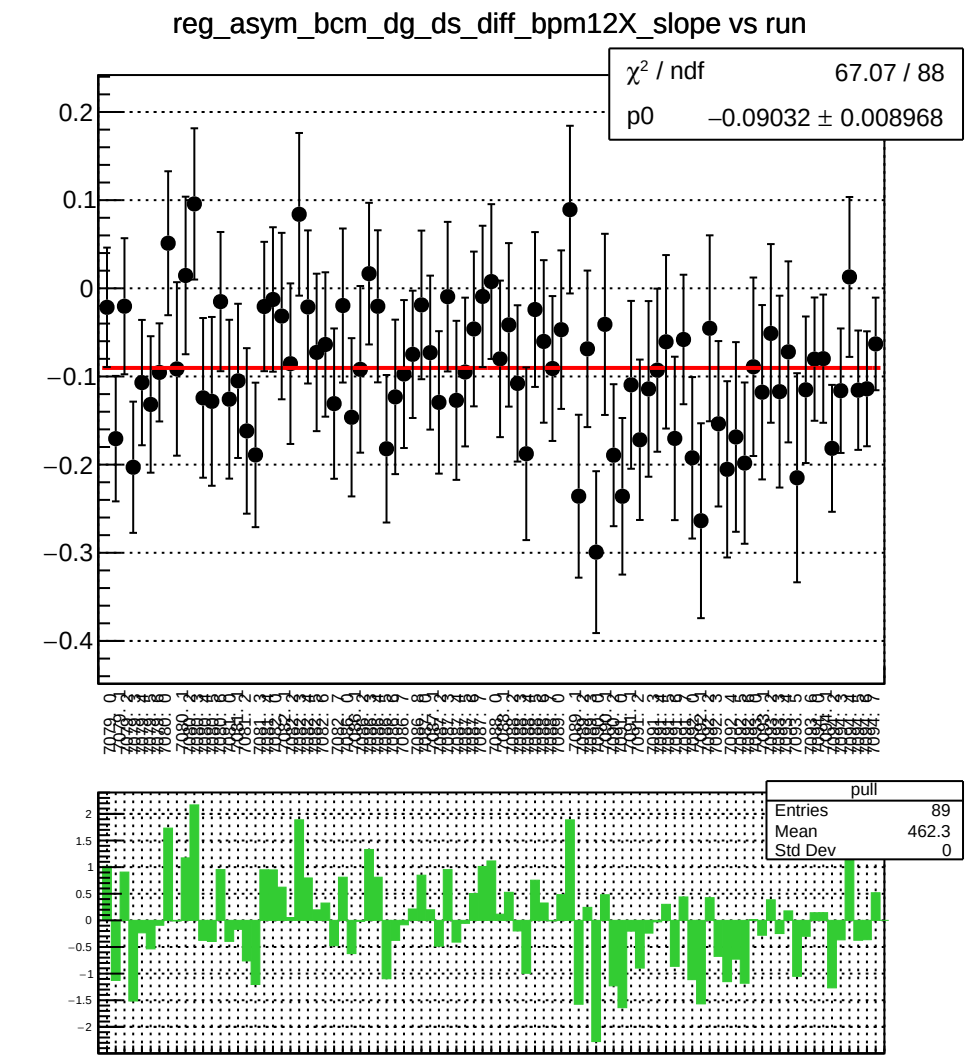

pull1D
Entries 89
Mean −0.2825
Std Dev 2.22

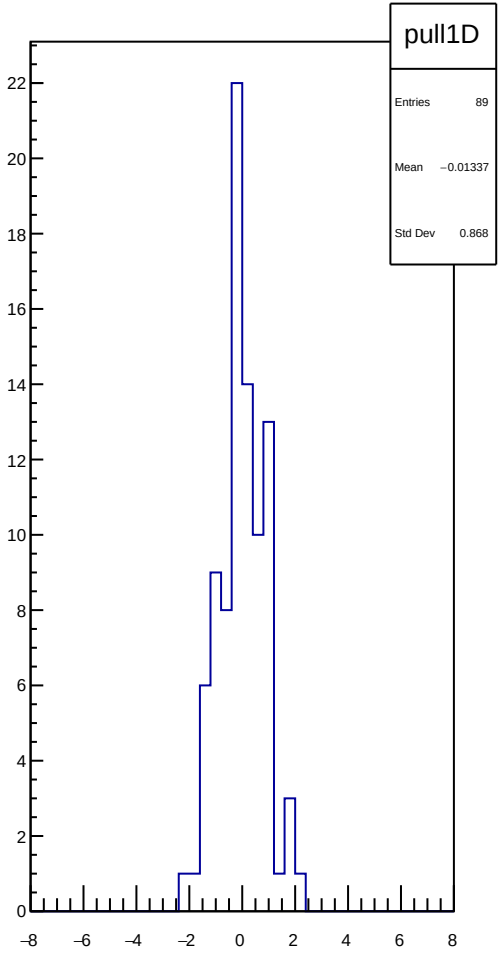

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 137 / 88
p0 2.978 ± 0.1844
pull
Entries 89
Mean 305.4
Std Dev 0
pull1D
Entries 89
Mean 0.03152
Std Dev 1.24

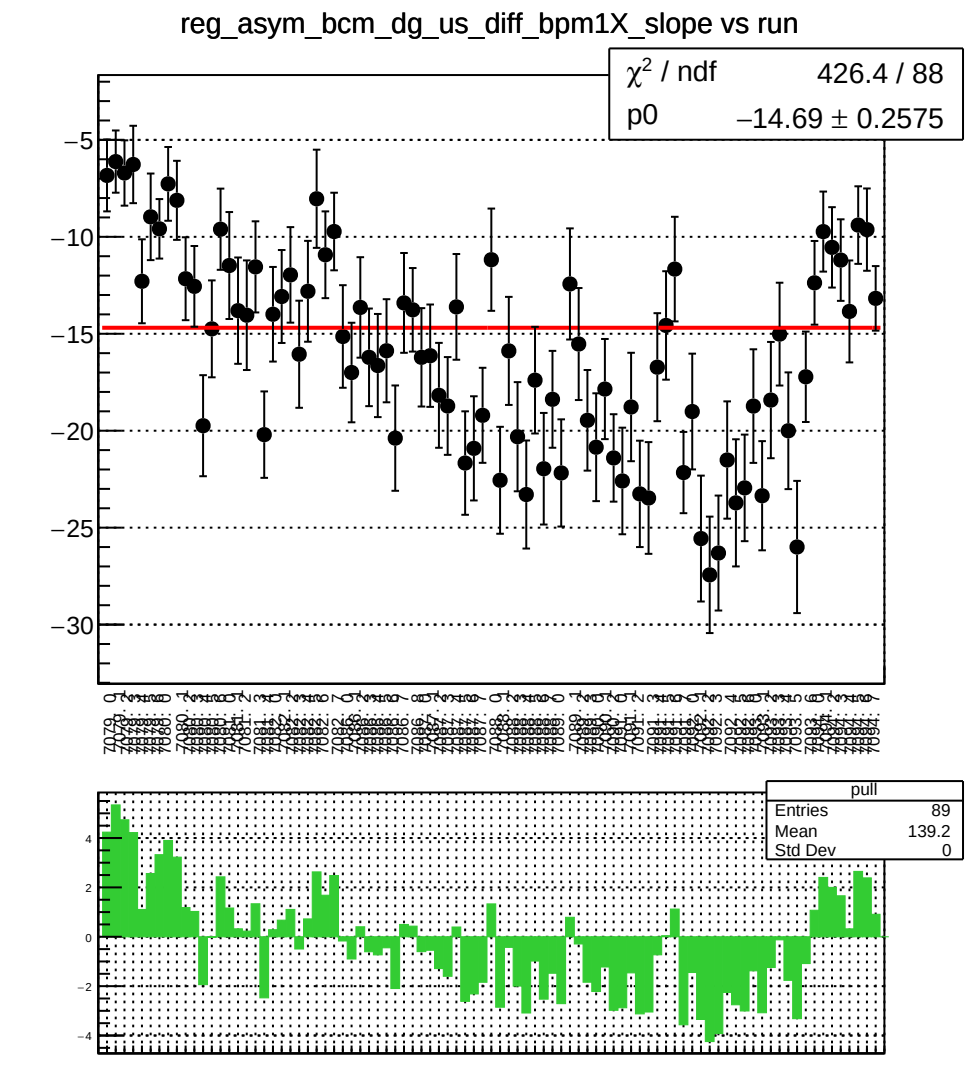

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 433.7 / 88
p0 13.64 ± 0.2476
pull
Entries 89
Mean 144.5
Std Dev 0

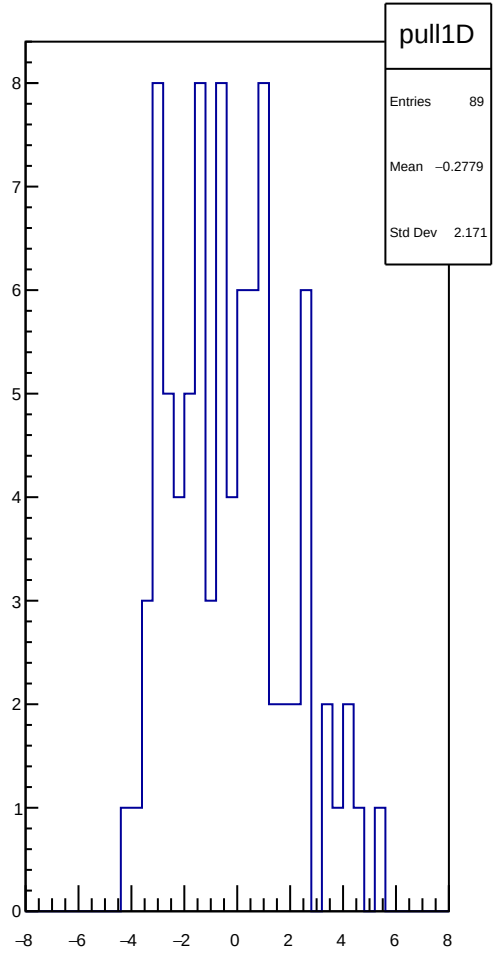

pull1D
Entries 89
Mean 0.2811
Std Dev 2.19

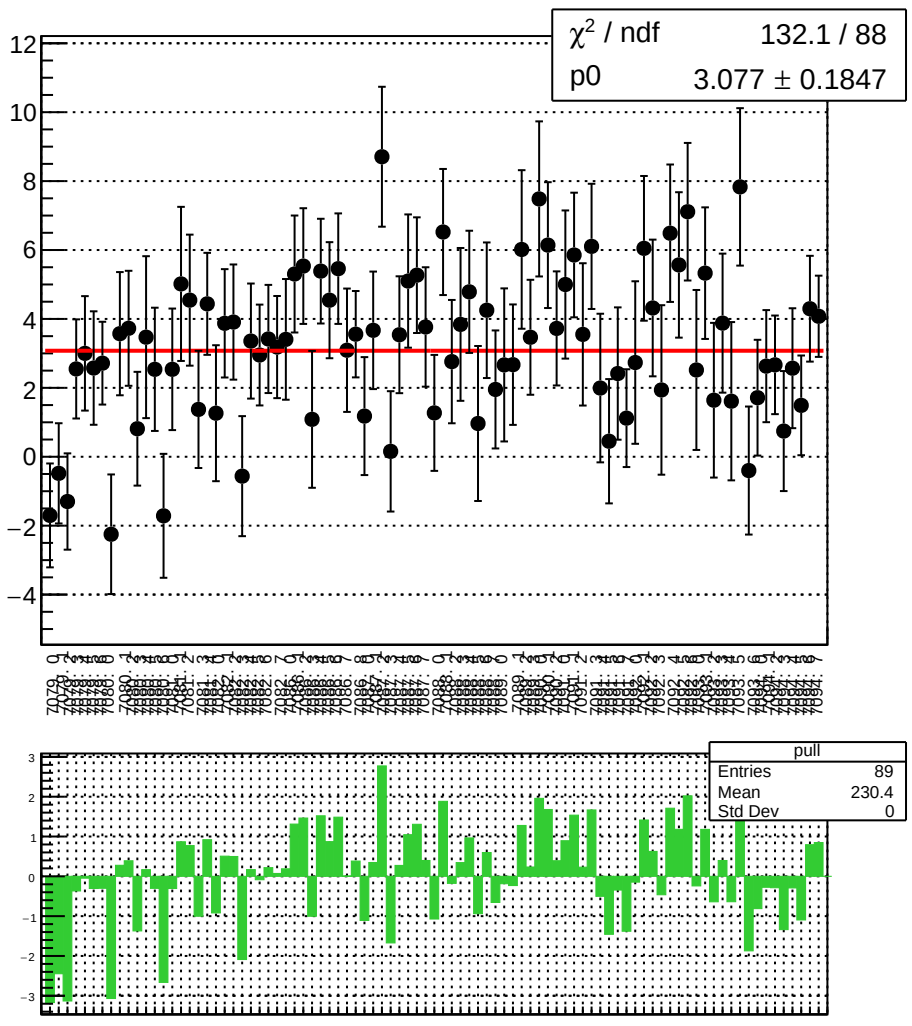

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 154.5 / 88
p0 −4.446 ± 0.1932
pull
Entries 89
Mean 232.3
Std Dev 0
pull1D
Entries 89
Mean −0.0486
Std Dev 1.317

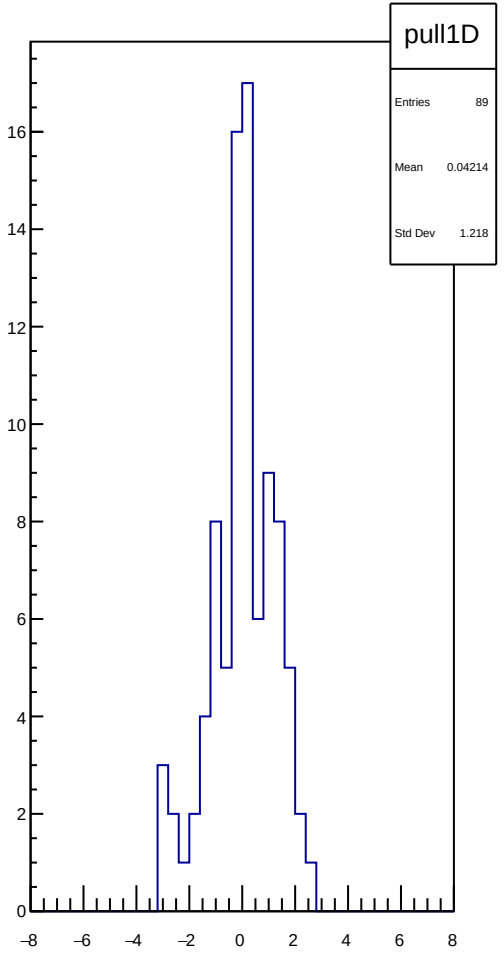

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 67.07 / 88
p0 −0.09032 ± 0.008968
pull
Entries 89
Mean 462.3
Std Dev 0

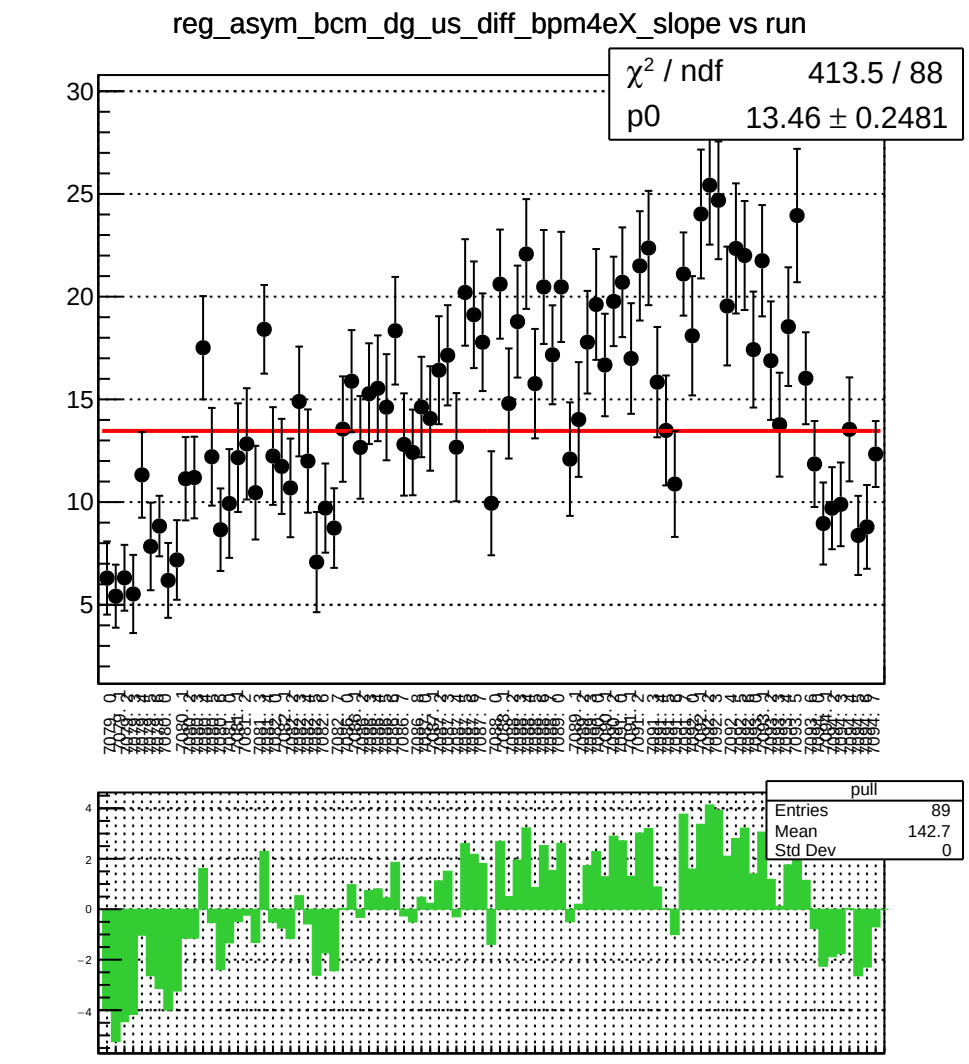

pull1D
Entries 89
Mean −0.01337
Std Dev 0.868

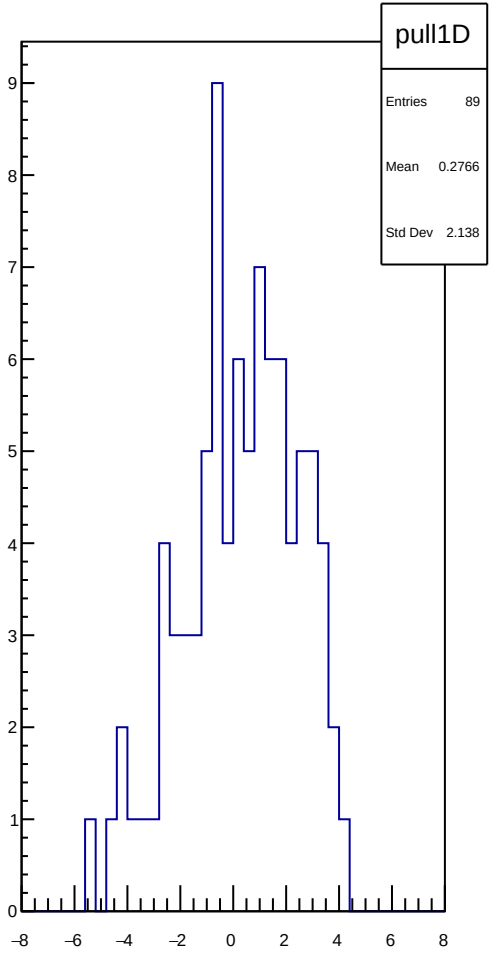

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 426.4 / 88
p0 −14.69 ± 0.2575
pull
Entries 89
Mean 139.2
Std Dev 0

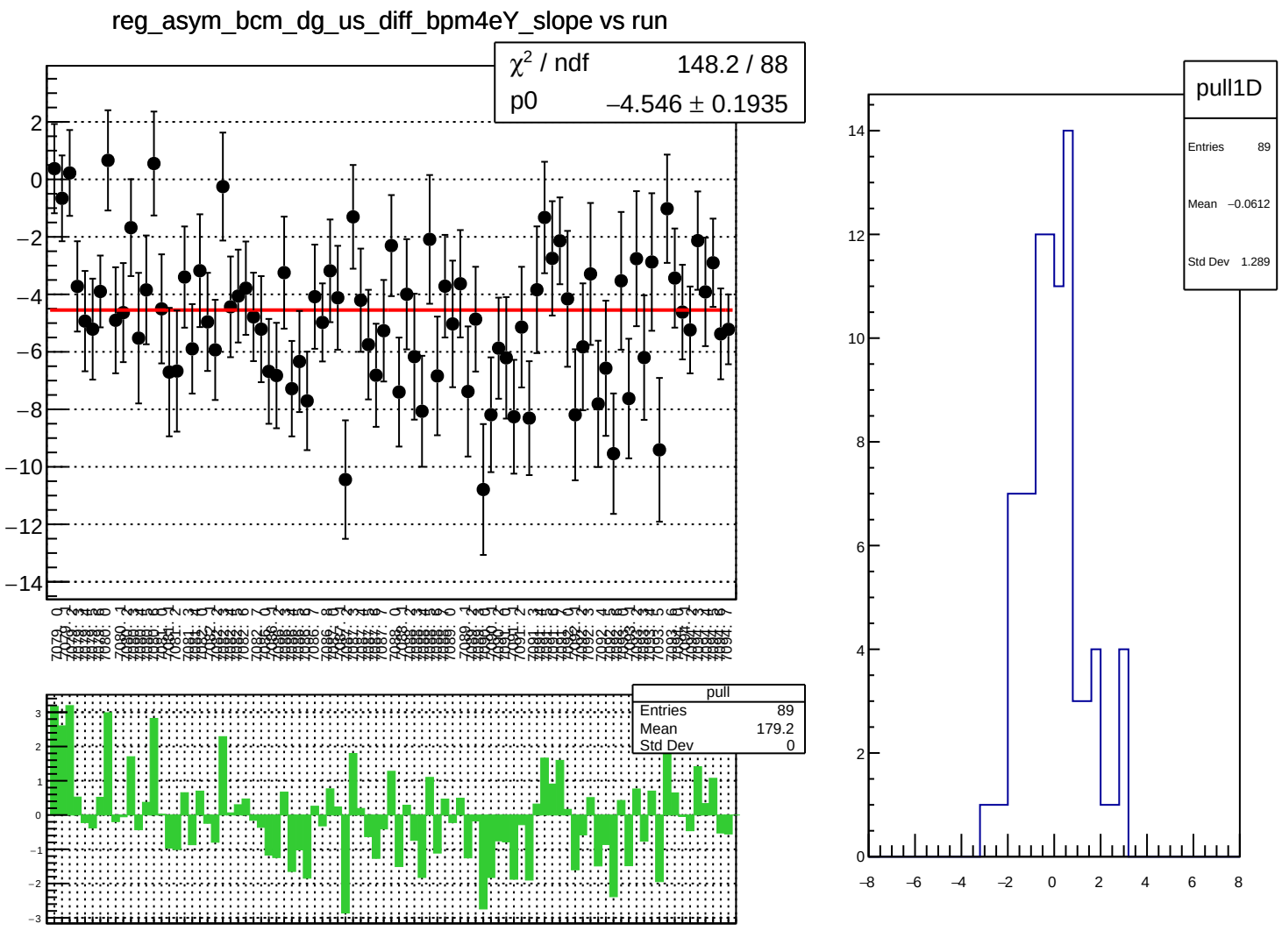

pull1D
Entries 89
Mean −0.2779
Std Dev 2.171

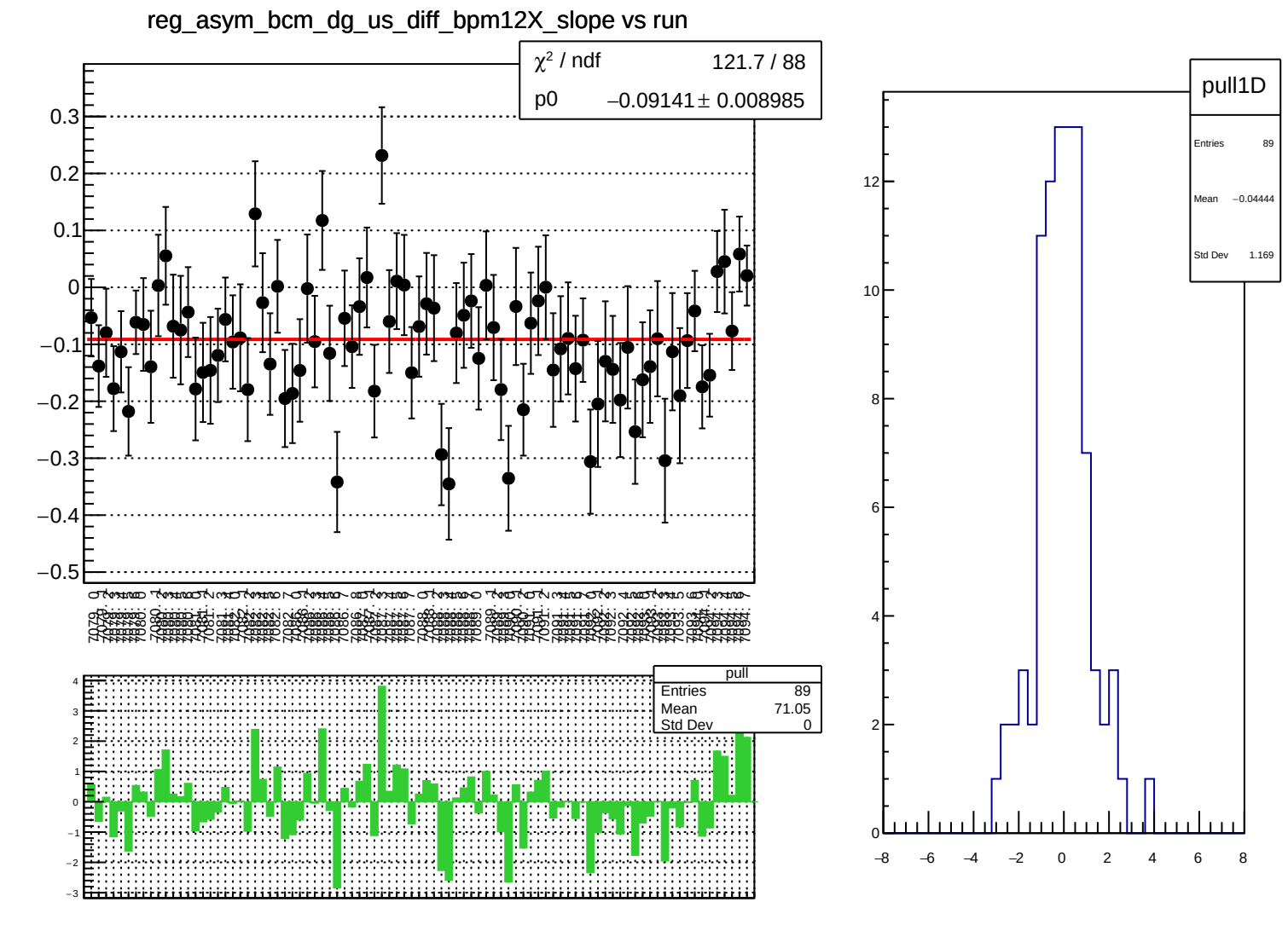

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 132.1 / 88
p0 3.077 ± 0.1847
pull
Entries 89
Mean 230.4
Std Dev 0

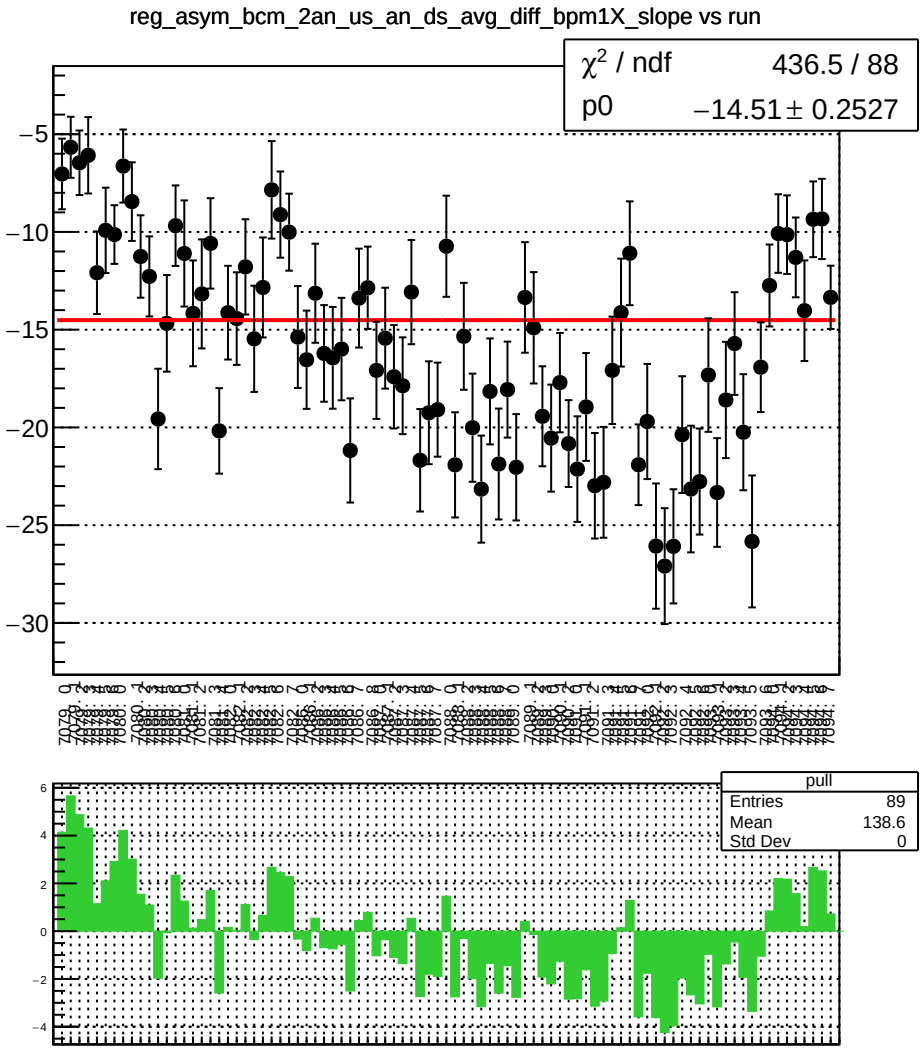

pull1D
Entries 89
Mean 0.04214
Std Dev 1.218

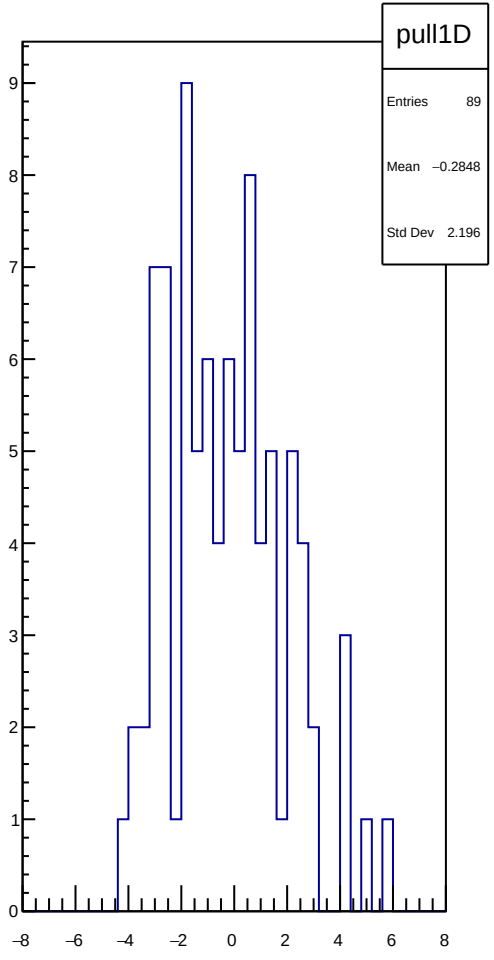

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 413.5 / 88
p0 13.46 ± 0.2481
pull
Entries 89
Mean 142.7
Std Dev 0

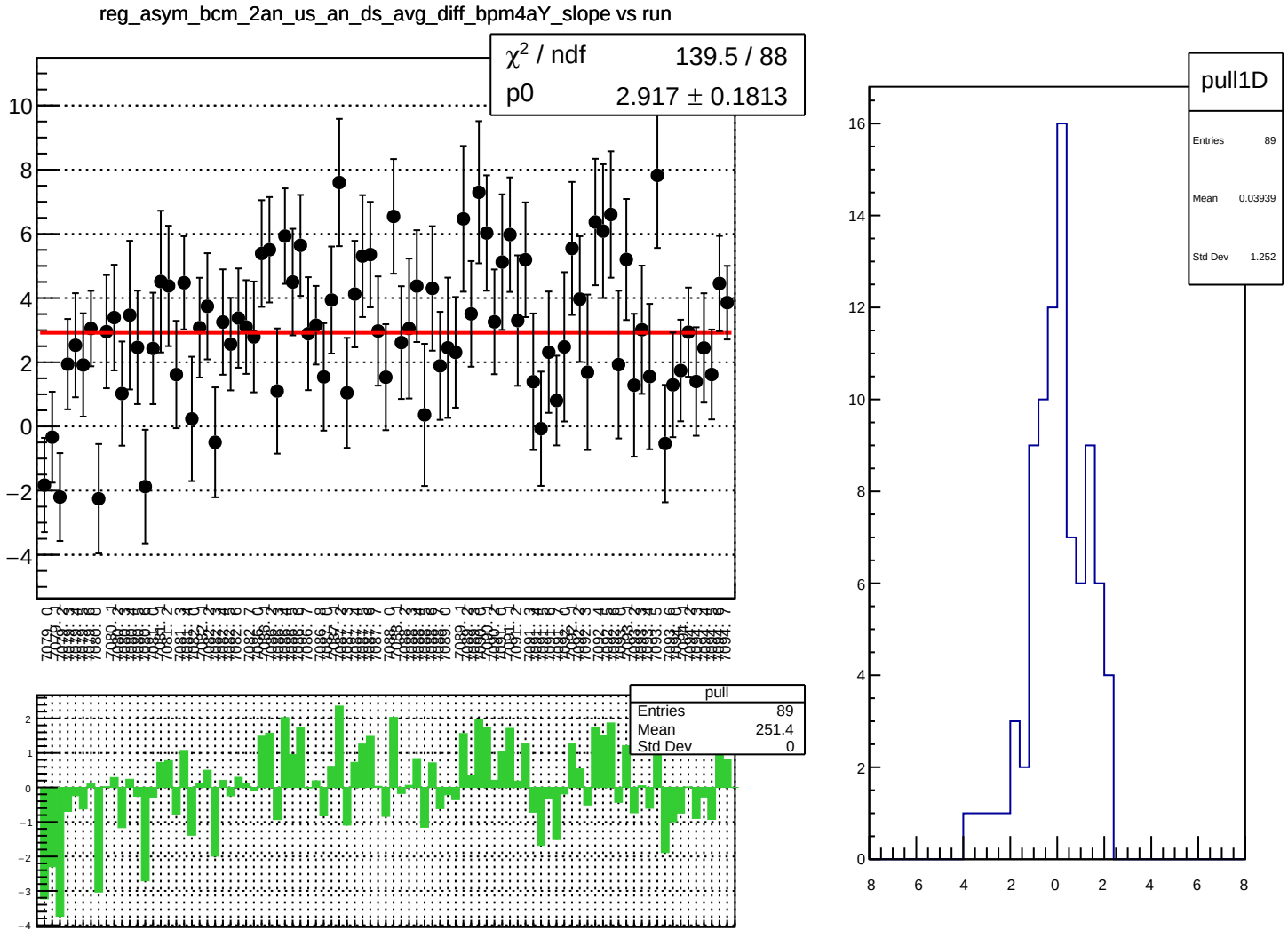

pull1D
Entries 89
Mean 0.2766
Std Dev 2.138

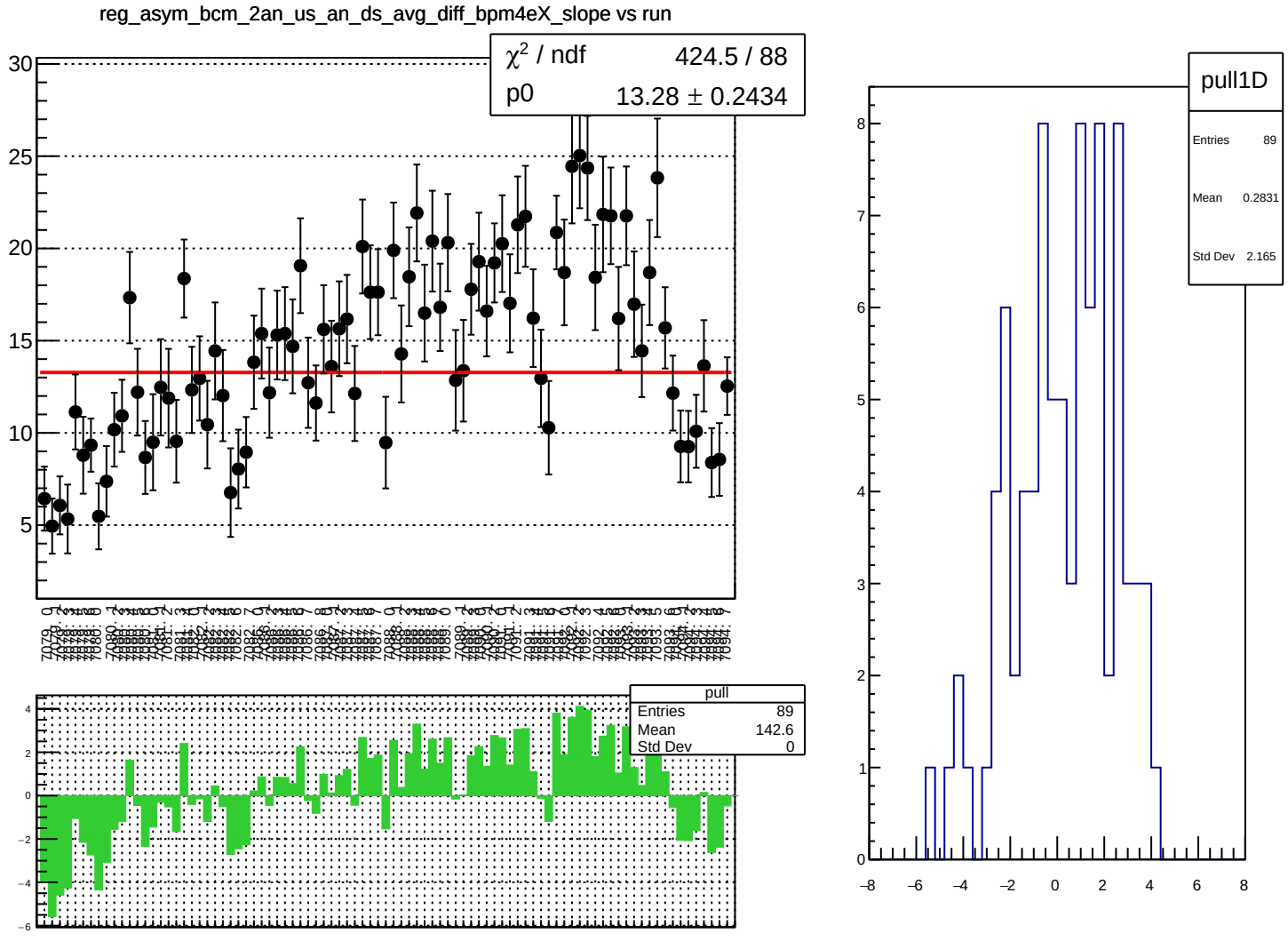

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 148.2 / 88
p0 −4.546 ± 0.1935
pull
Entries 89
Mean 179.2
Std Dev 0
pull1D
Entries 89
Mean −0.0612
Std Dev 1.289

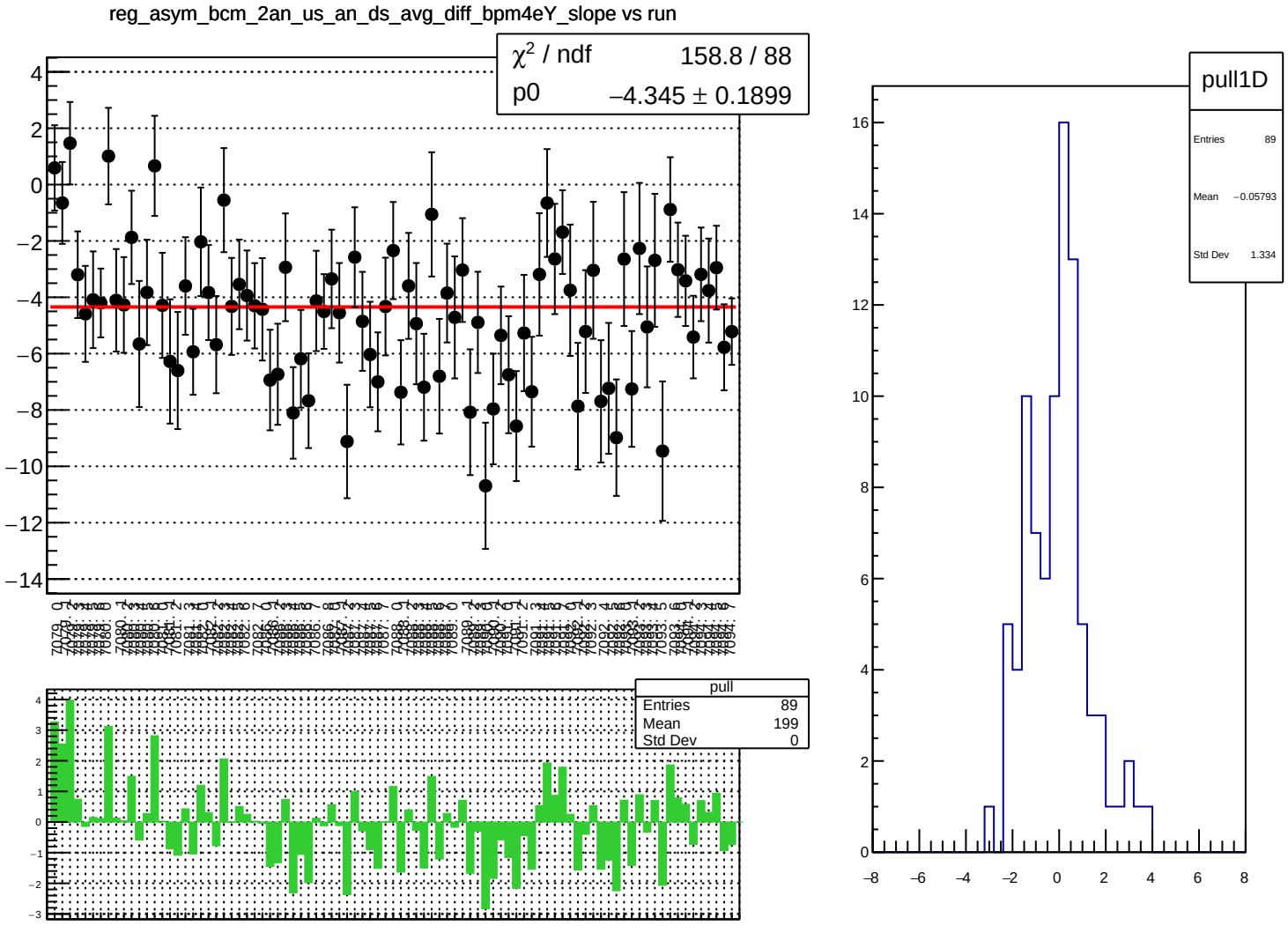

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 121.7 / 88
p0 −0.09141 ± 0.008985
pull
Entries 89
Mean 71.05
Std Dev 0
pull1D
Entries 89
Mean −0.04444
Std Dev 1.169

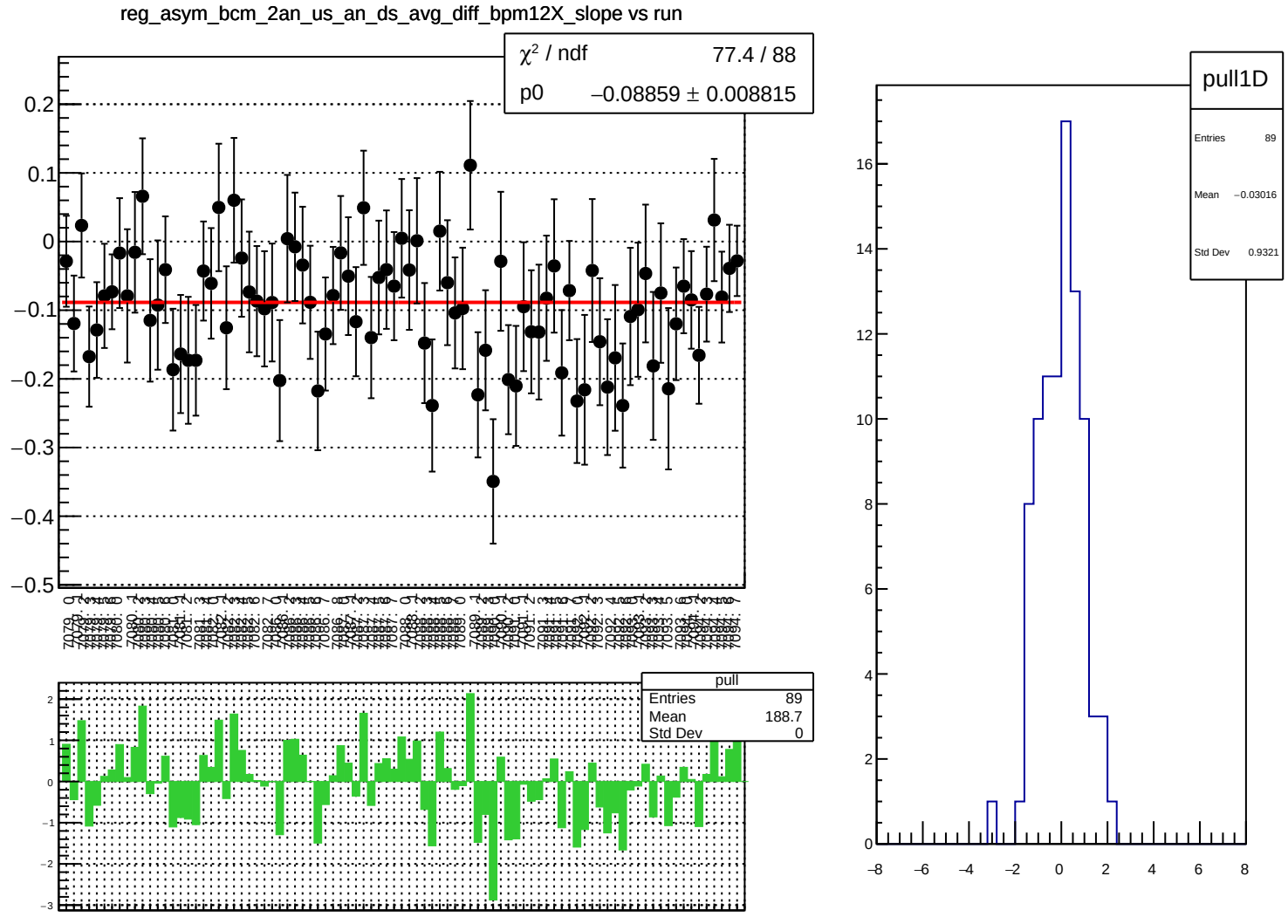

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 436.5 / 88
p0 −14.51 ± 0.2527
pull
Entries 89
Mean 138.6
Std Dev 0

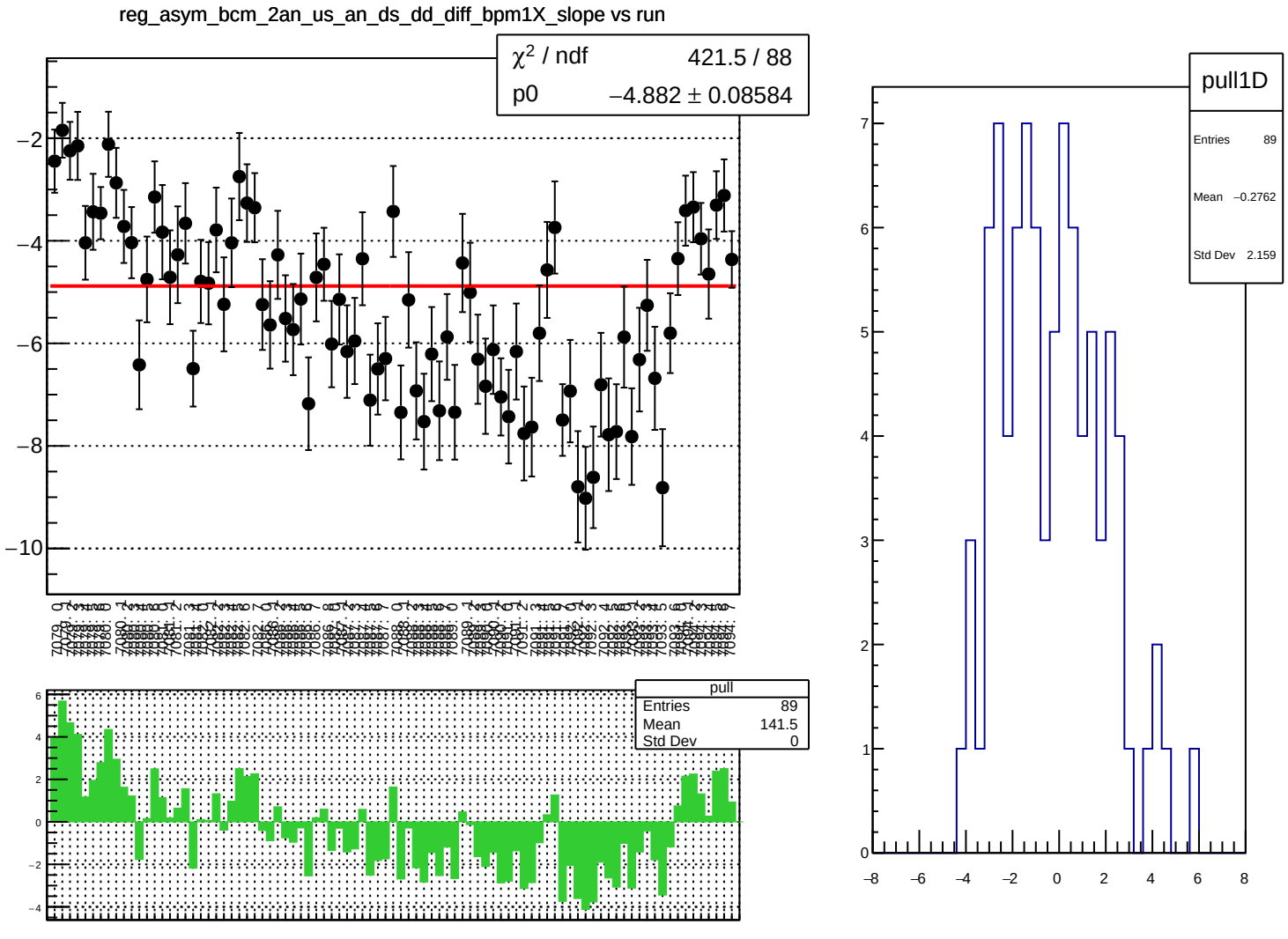

pull1D
Entries 89
Mean −0.2848
Std Dev 2.196

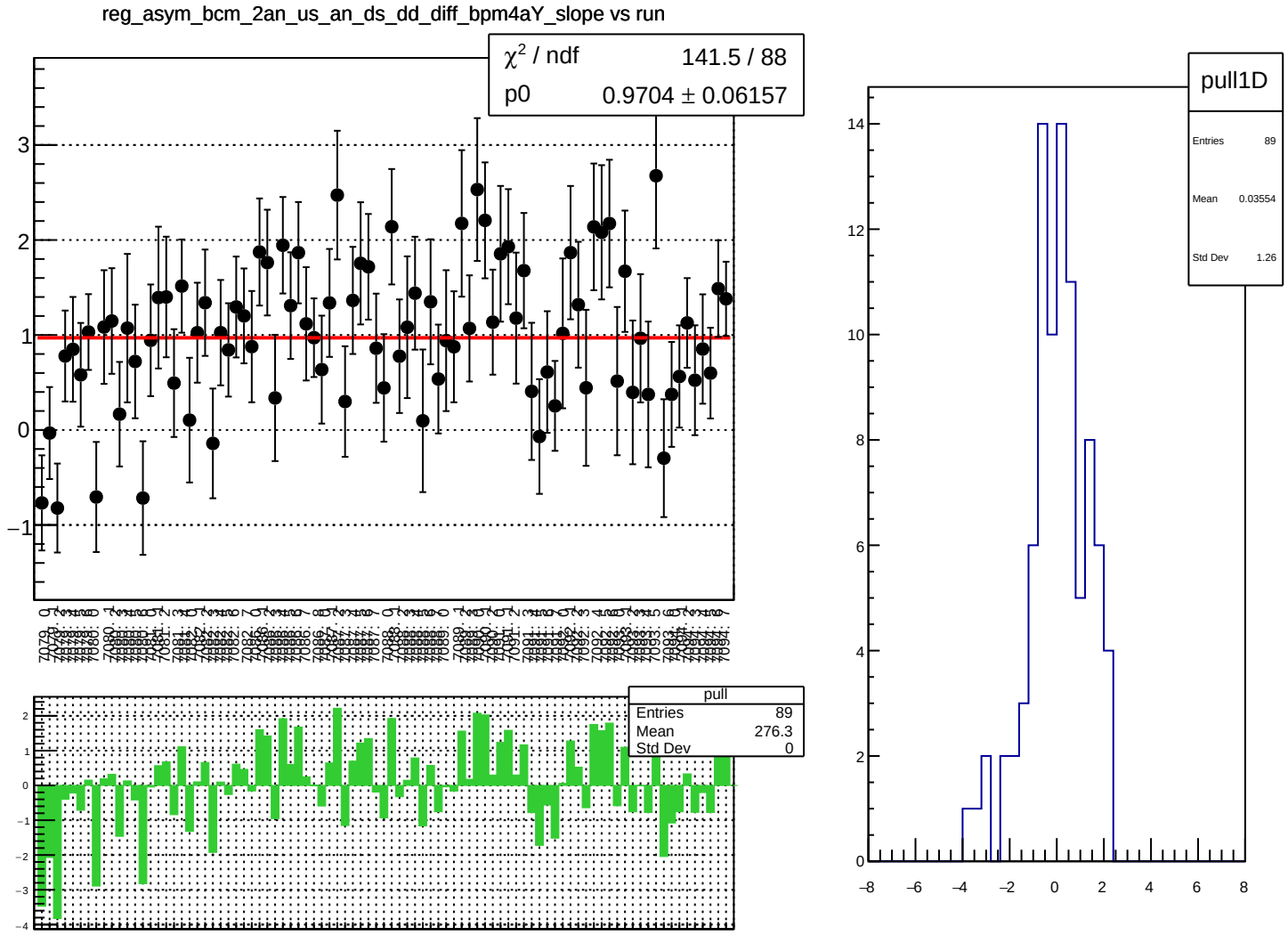

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 139.5 / 88
p0 2.917 ± 0.1813
pull
Entries 89
Mean 251.4
Std Dev 0
pull1D
Entries 89
Mean 0.03939
Std Dev 1.252

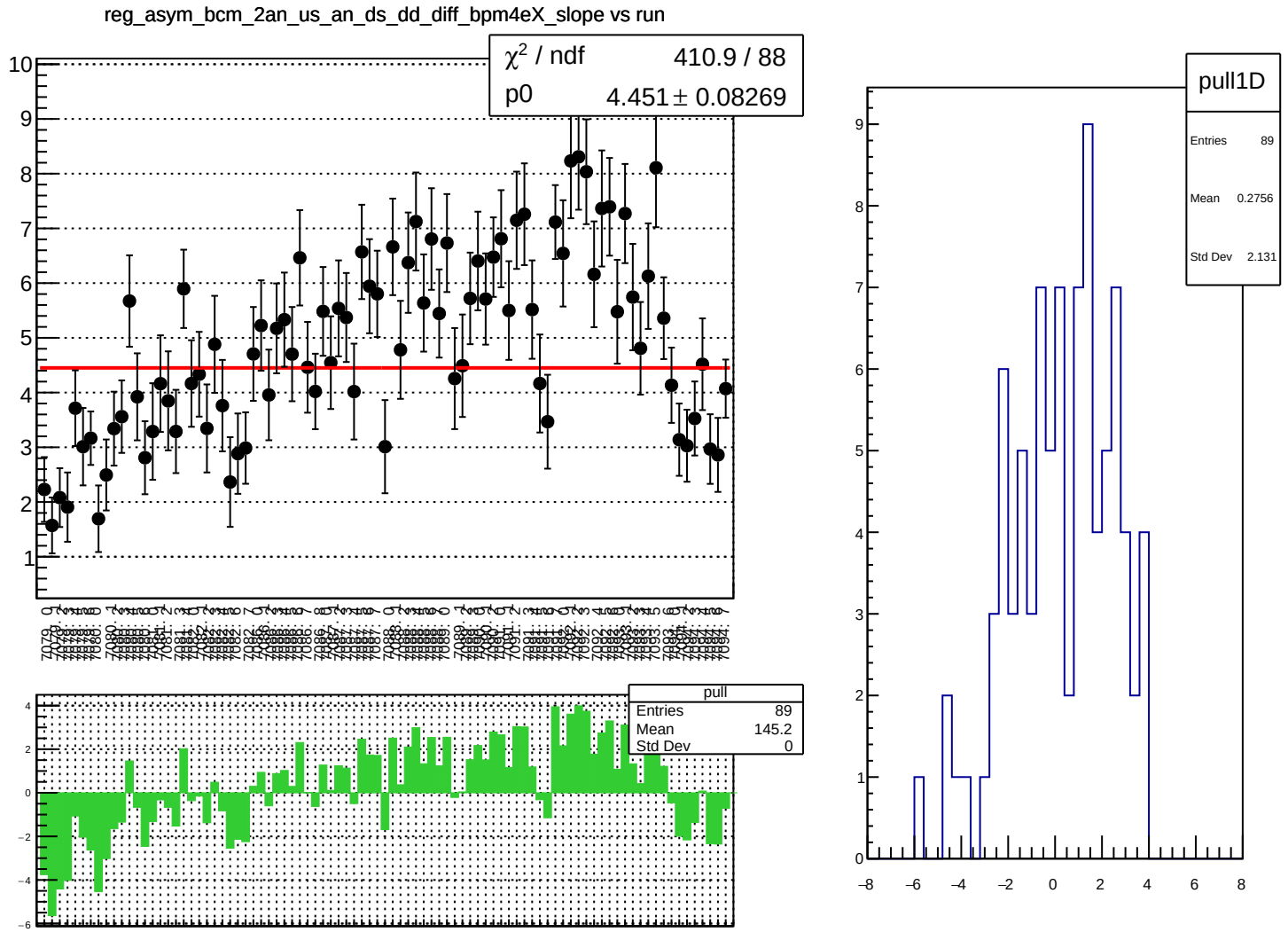

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 424.5 / 88
p0 13.28 ± 0.2434
pull
Entries 89
Mean 142.6
Std Dev 0
pull1D
Entries 89
Mean 0.2831
Std Dev 2.165

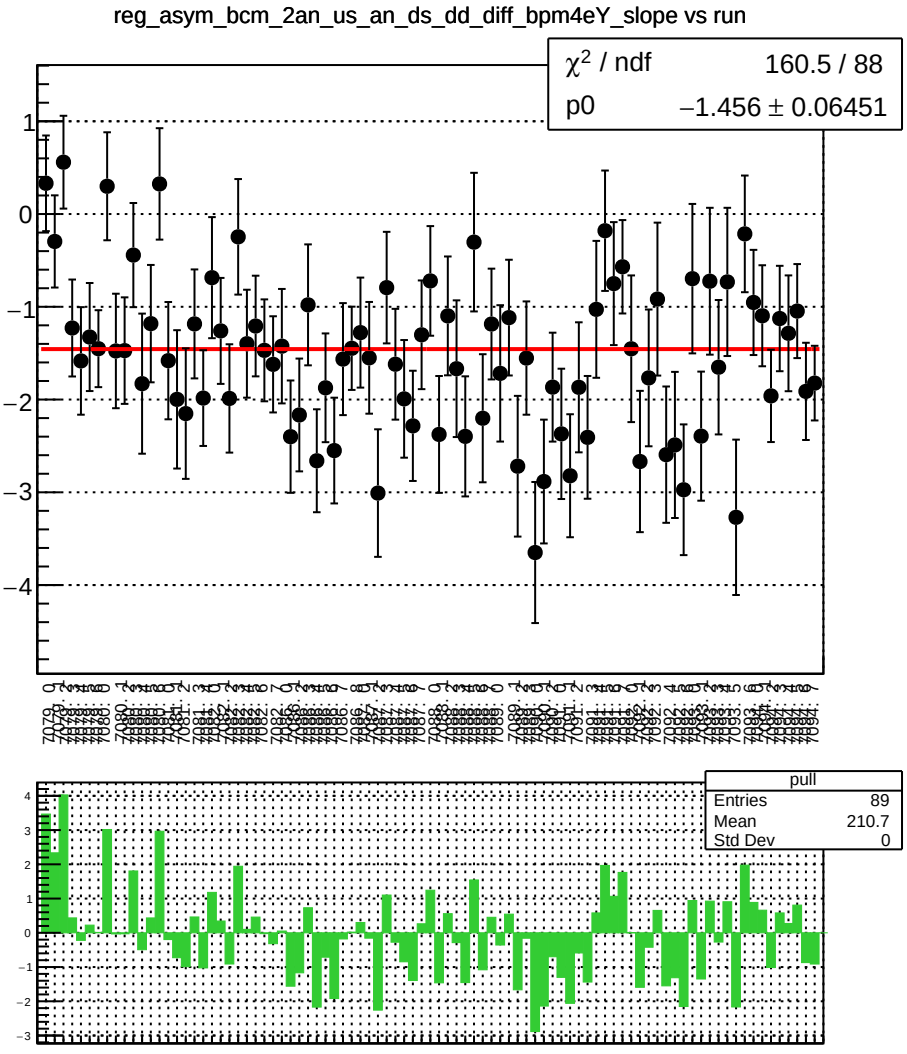

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 158.8 / 88
p0 −4.345 ± 0.1899
pull
Entries 89
Mean 199
Std Dev 0
pull1D
Entries 89
Mean −0.05793
Std Dev 1.334

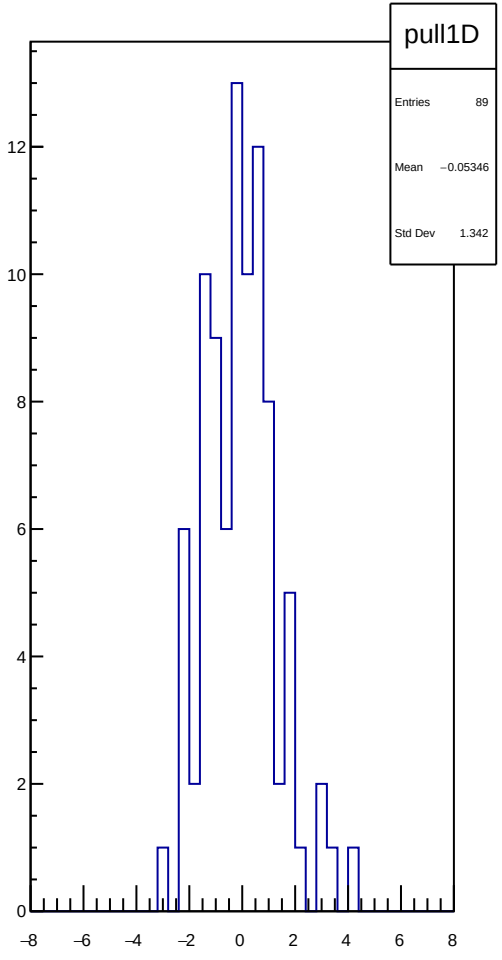

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 77.4 / 88
p0 −0.08859 ± 0.008815
pull
Entries 89
Mean 188.7
Std Dev 0
pull1D
Entries 89
Mean −0.03016
Std Dev 0.9321

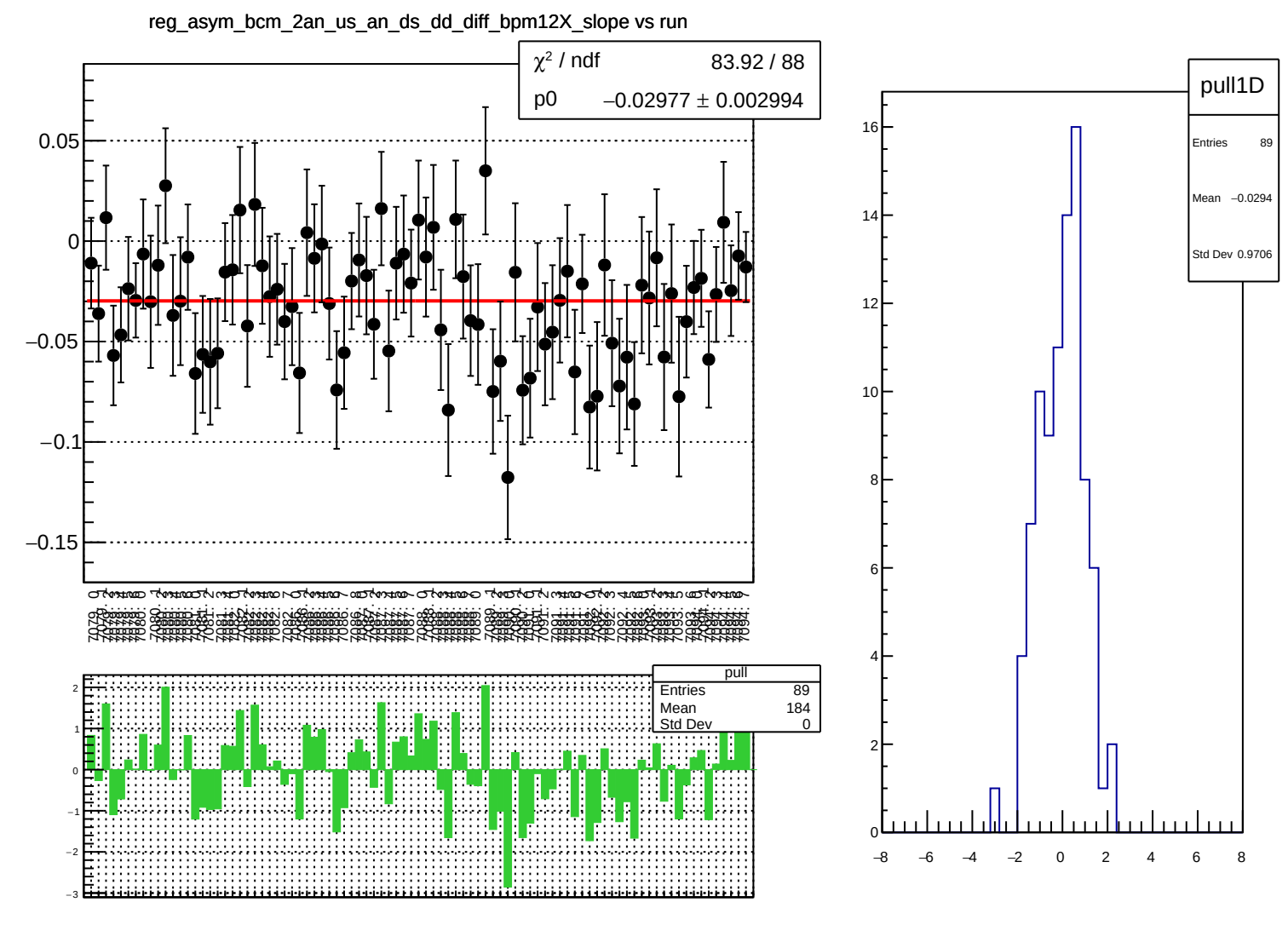

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 421.5 / 88
p0 −4.882 ± 0.08584
pull
Entries 89
Mean 141.5
Std Dev 0
pull1D
Entries 89
Mean −0.2762
Std Dev 2.159

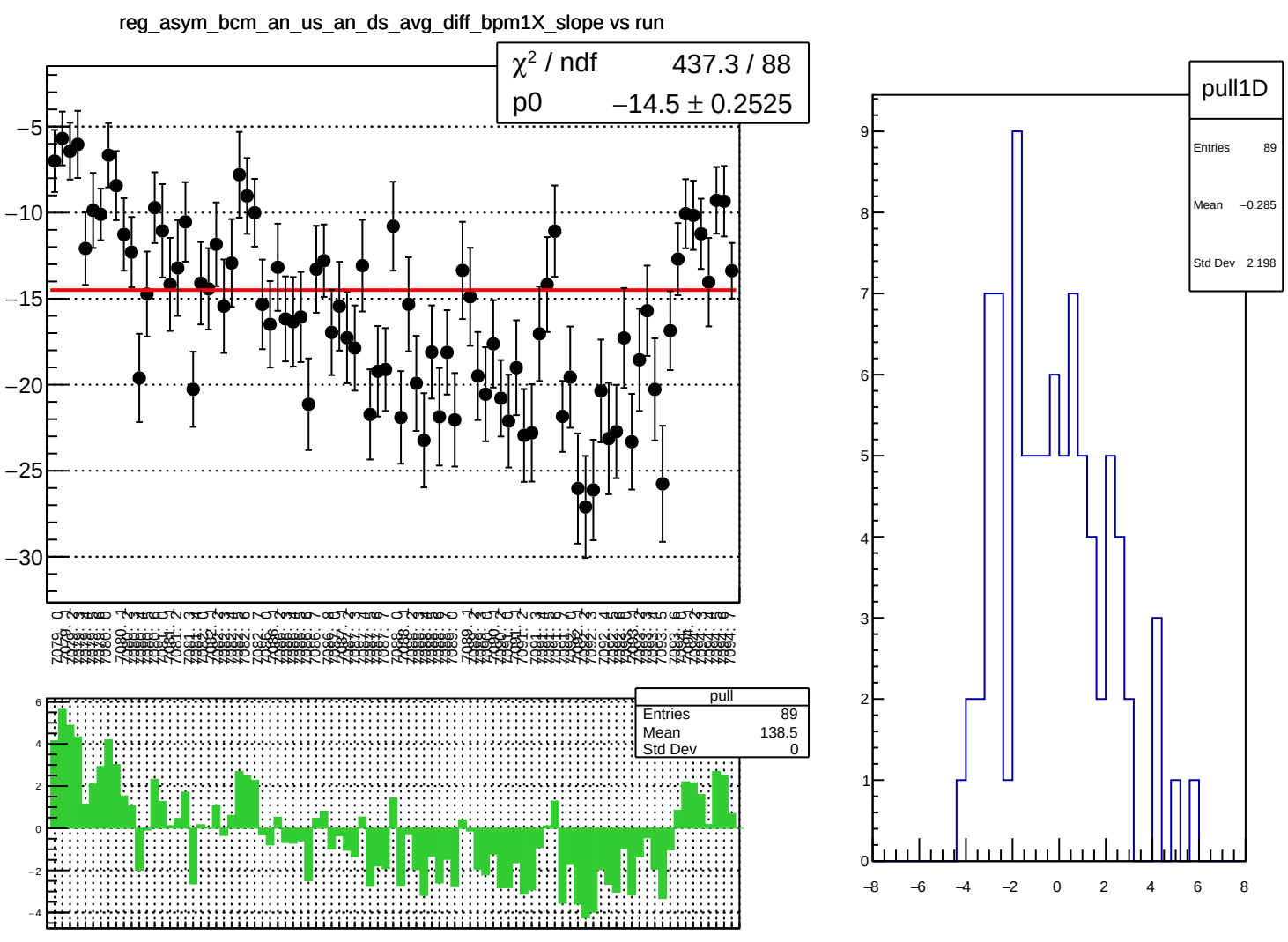

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 141.5 / 88
p0 0.9704 ± 0.06157
pull
Entries 89
Mean 276.3
Std Dev 0
pull1D
Entries 89
Mean 0.03554
Std Dev 1.26

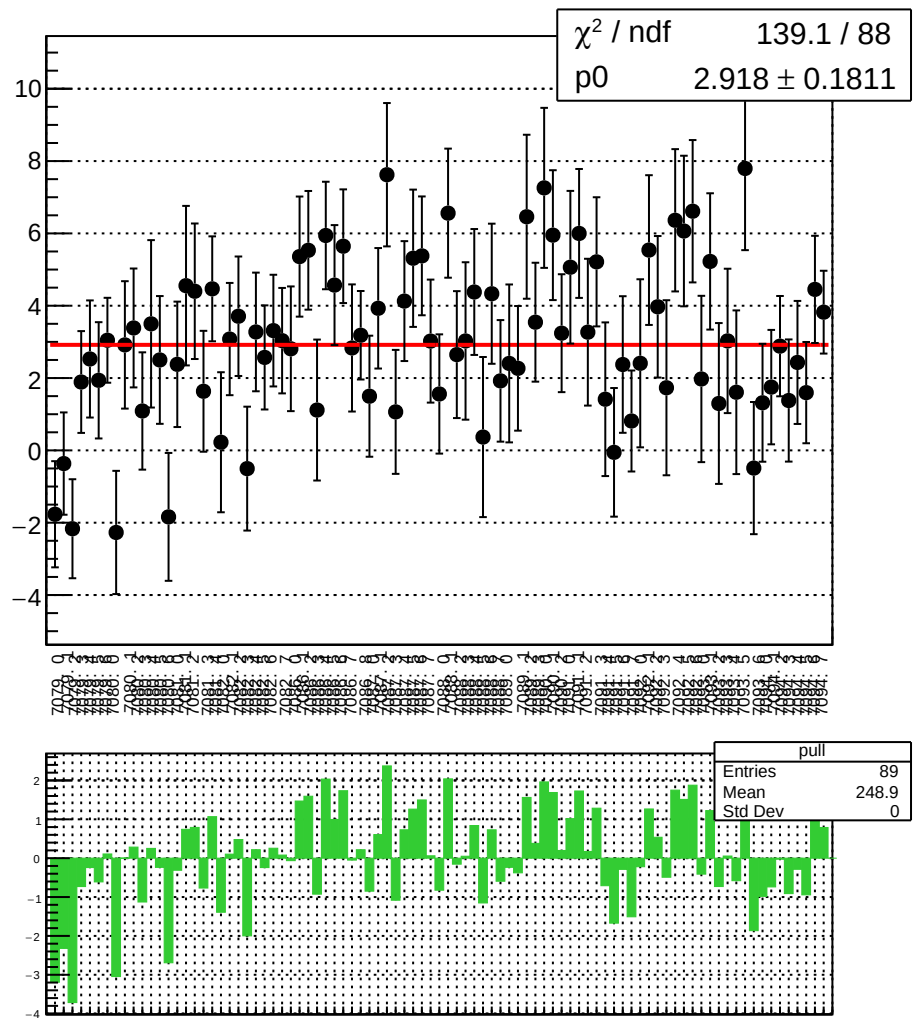

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 410.9 / 88
p0 4.451 ± 0.08269
pull
Entries 89
Mean 145.2
Std Dev 0
pull1D
Entries 89
Mean 0.2756
Std Dev 2.131

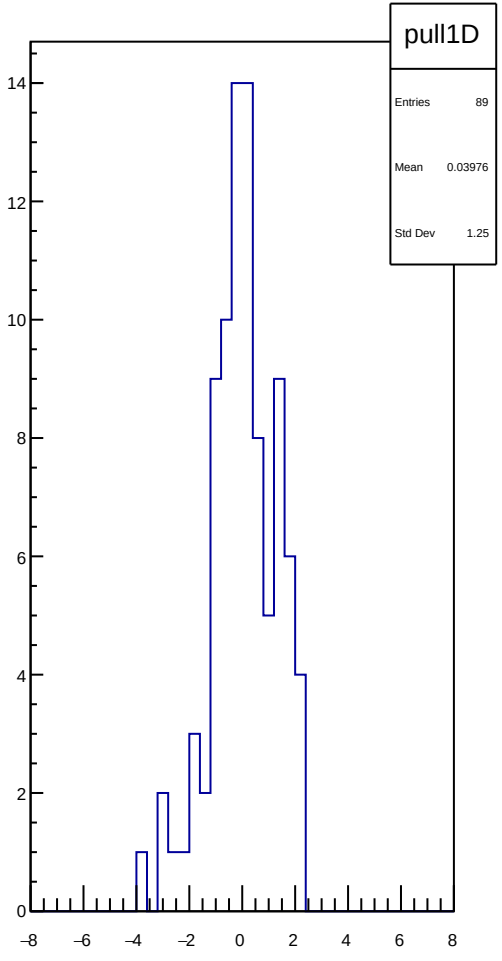

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 160.5 / 88
p0 −1.456 ± 0.06451
pull
Entries 89
Mean 210.7
Std Dev 0

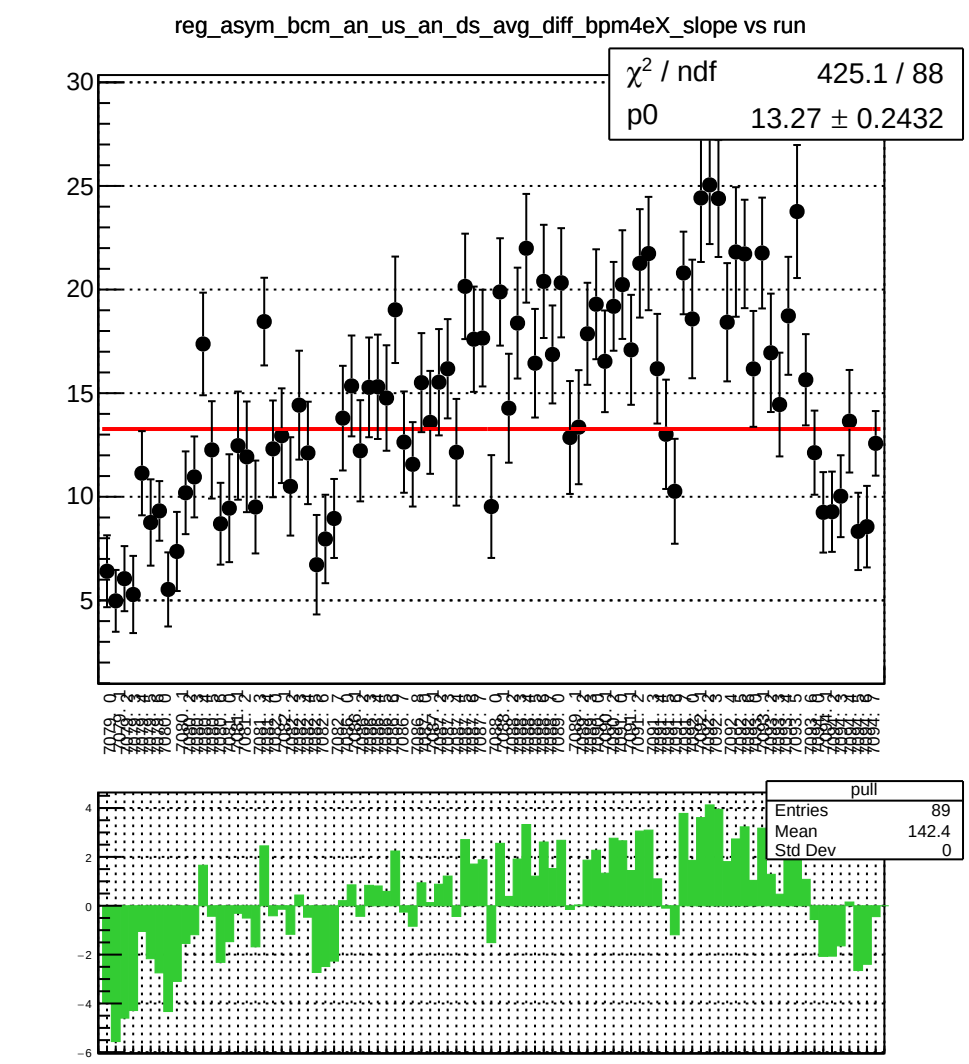

pull1D
Entries 89
Mean −0.05346
Std Dev 1.342

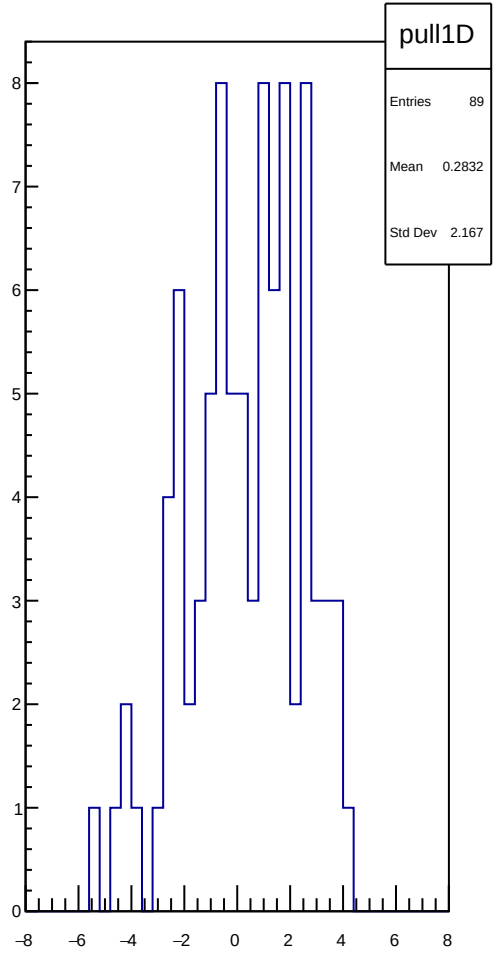

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 83.92 / 88
p0 −0.02977 ± 0.002994
pull
Entries 89
Mean 184
Std Dev 0
pull1D
Entries 89
Mean −0.0294
Std Dev 0.9706

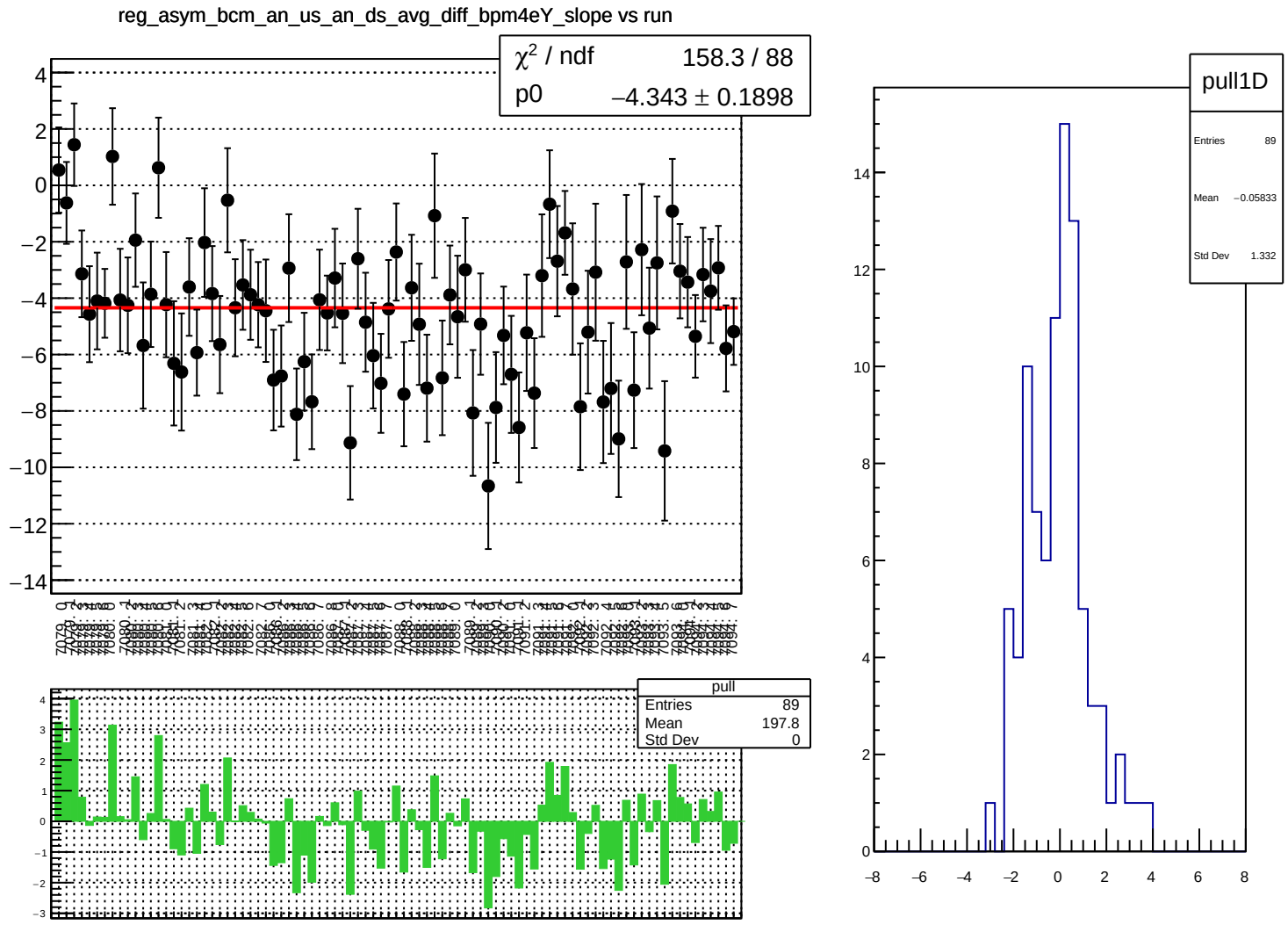

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 437.3 / 88
p0 −14.5 ± 0.2525
pull
Entries 89
Mean 138.5
Std Dev 0
pull1D
Entries 89
Mean −0.285
Std Dev 2.198

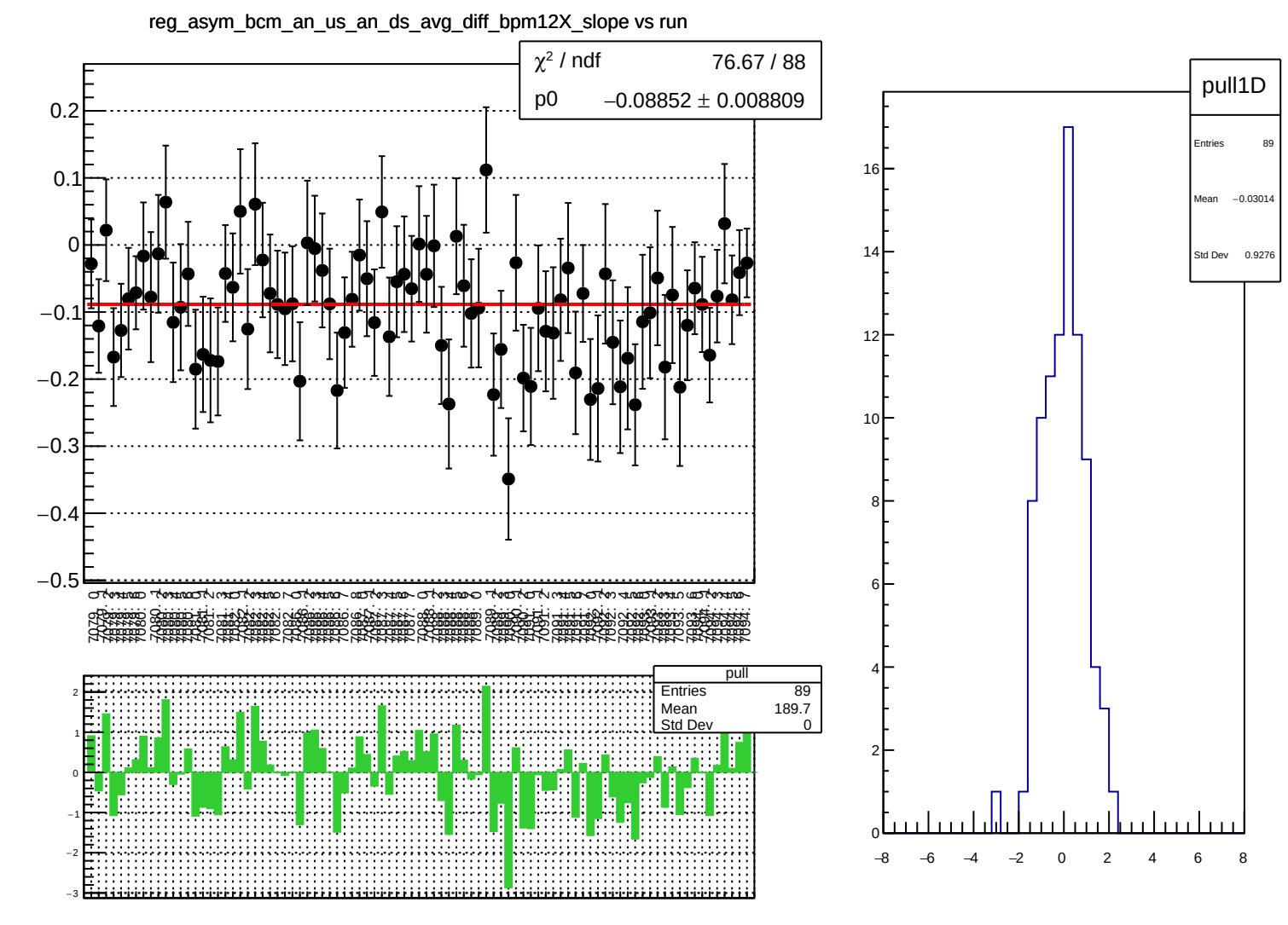

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 139.1 / 88
p0 2.918 ± 0.1811
pull
Entries 89
Mean 248.9
Std Dev 0

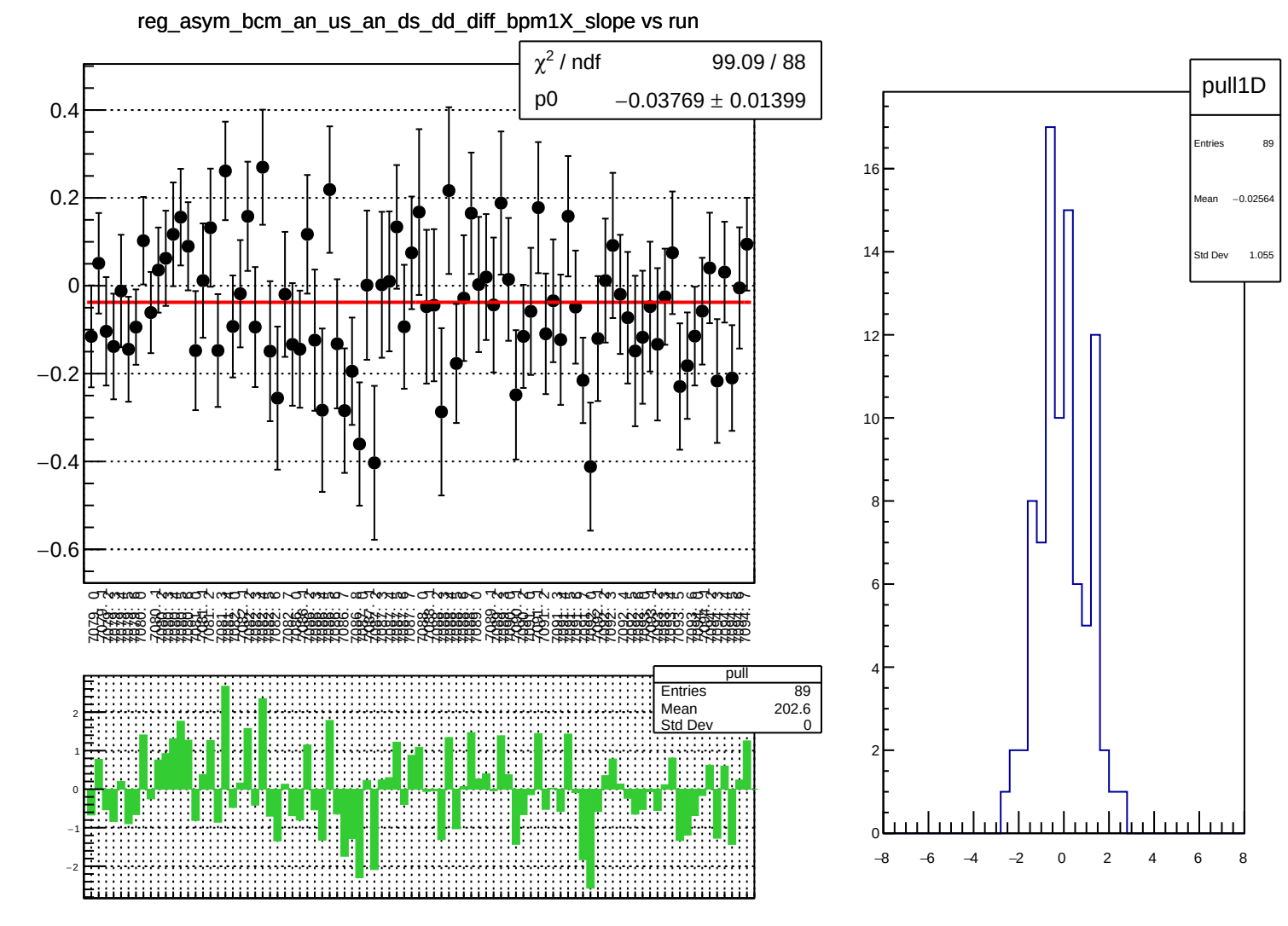

pull1D
Entries 89
Mean 0.03976
Std Dev 1.25

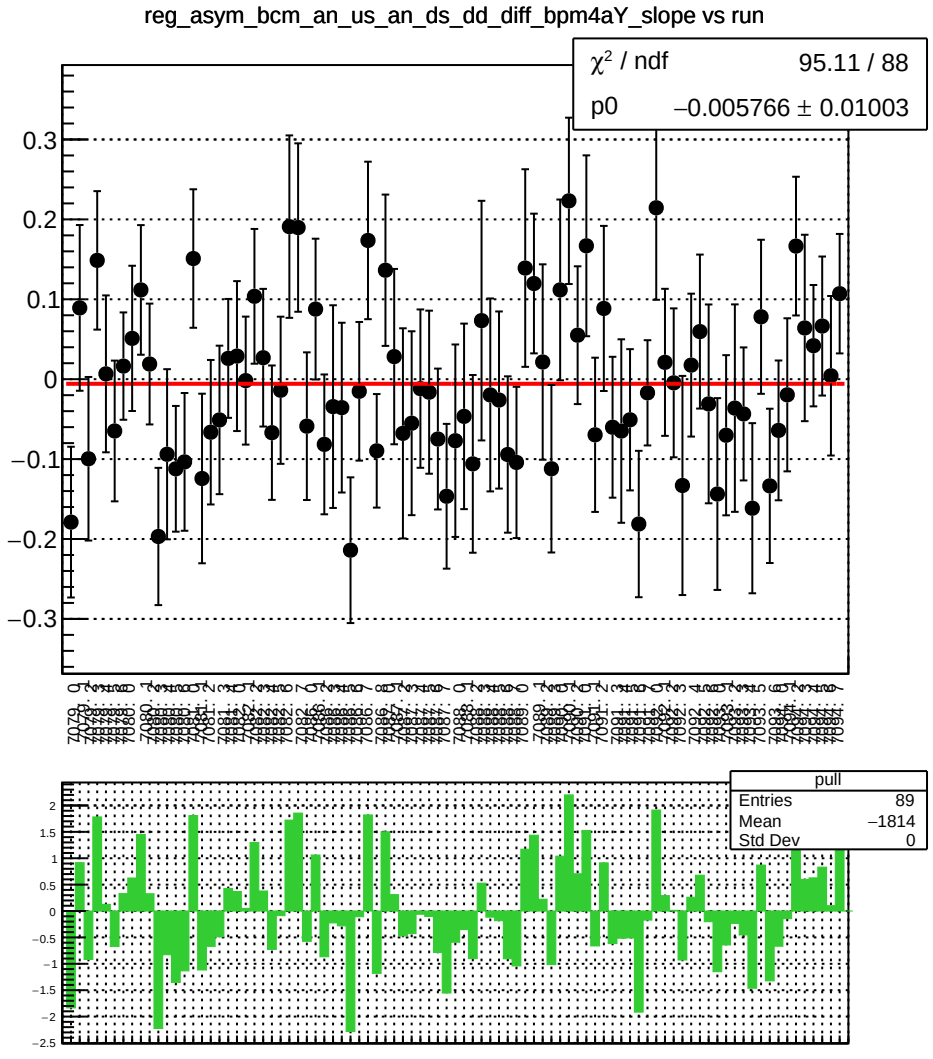

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 425.1 / 88
p0 13.27 ± 0.2432
pull
Entries 89
Mean 142.4
Std Dev 0

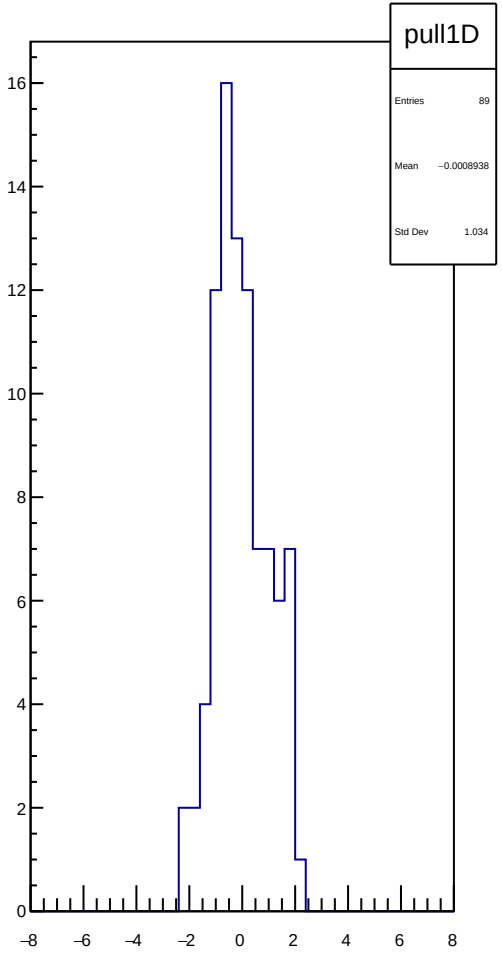

pull1D
Entries 89
Mean 0.2832
Std Dev 2.167

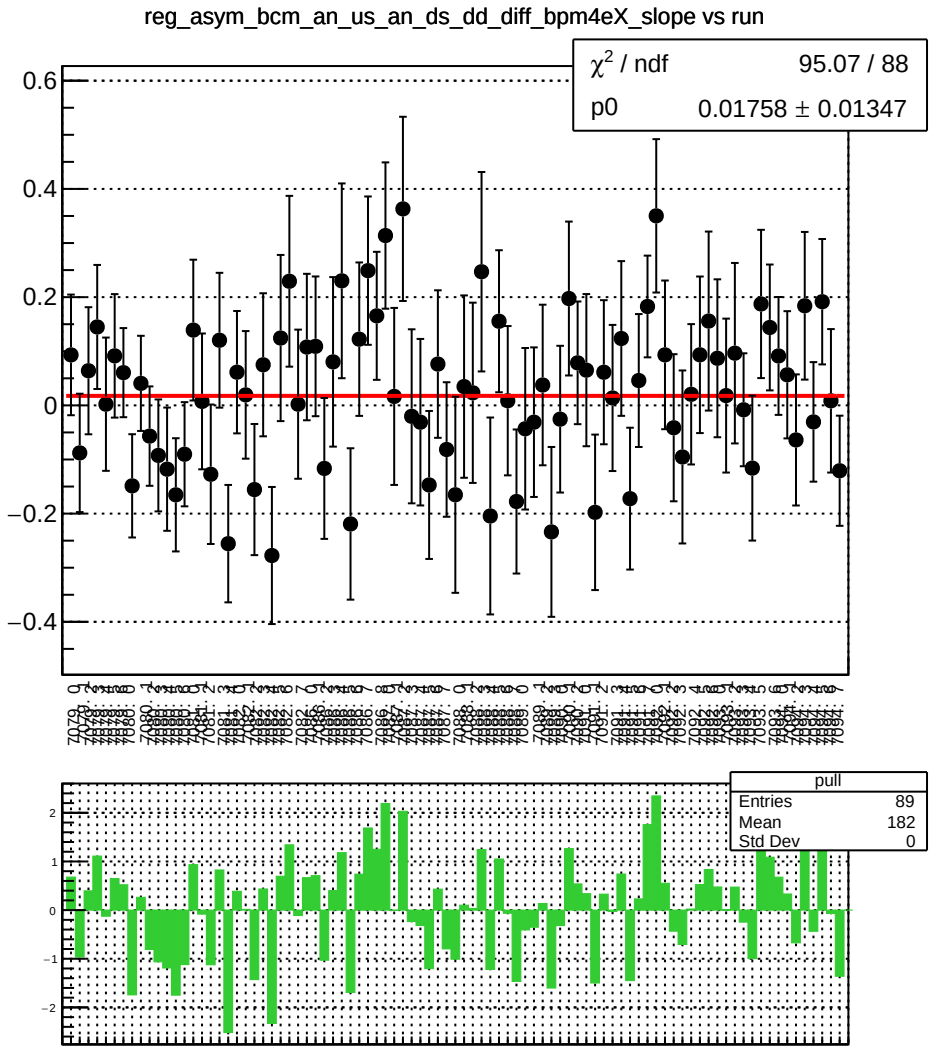

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 158.3 / 88
p0 −4.343 ± 0.1898
pull
Entries 89
Mean 197.8
Std Dev 0
pull1D
Entries 89
Mean −0.05833
Std Dev 1.332

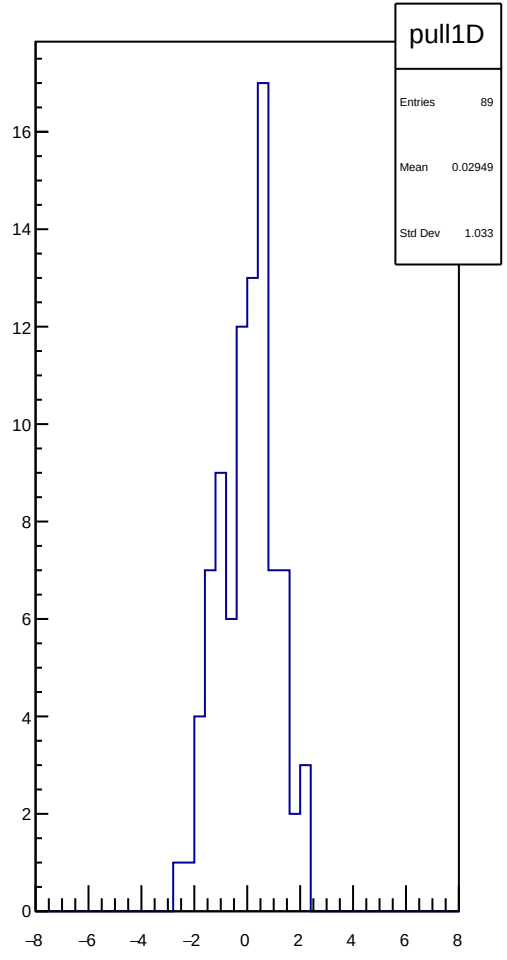

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 76.67 / 88
p0 −0.08852 ± 0.008809
pull
Entries 89
Mean 189.7
Std Dev 0
pull1D
Entries 89
Mean −0.03014
Std Dev 0.9276

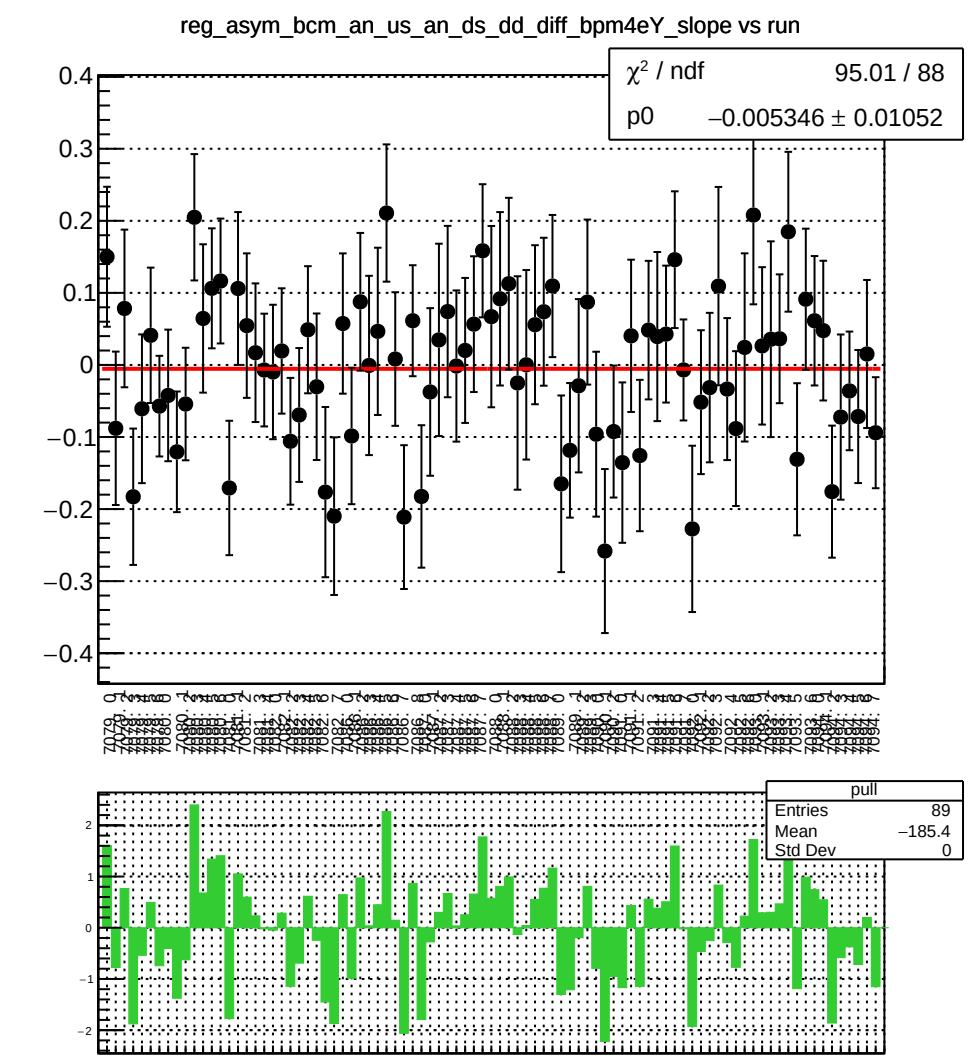

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 99.09 / 88
p0 −0.03769 ± 0.01399
pull
Entries 89
Mean 202.6
Std Dev 0
pull1D
Entries 89
Mean −0.02564
Std Dev 1.055

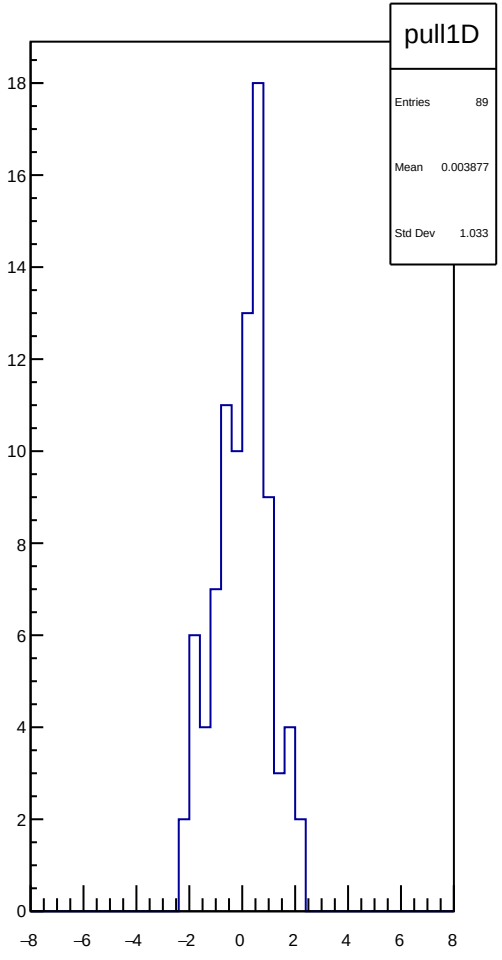

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 95.11 / 88
p0 −0.005766 ± 0.01003
pull
Entries 89
Mean −1814
Std Dev 0

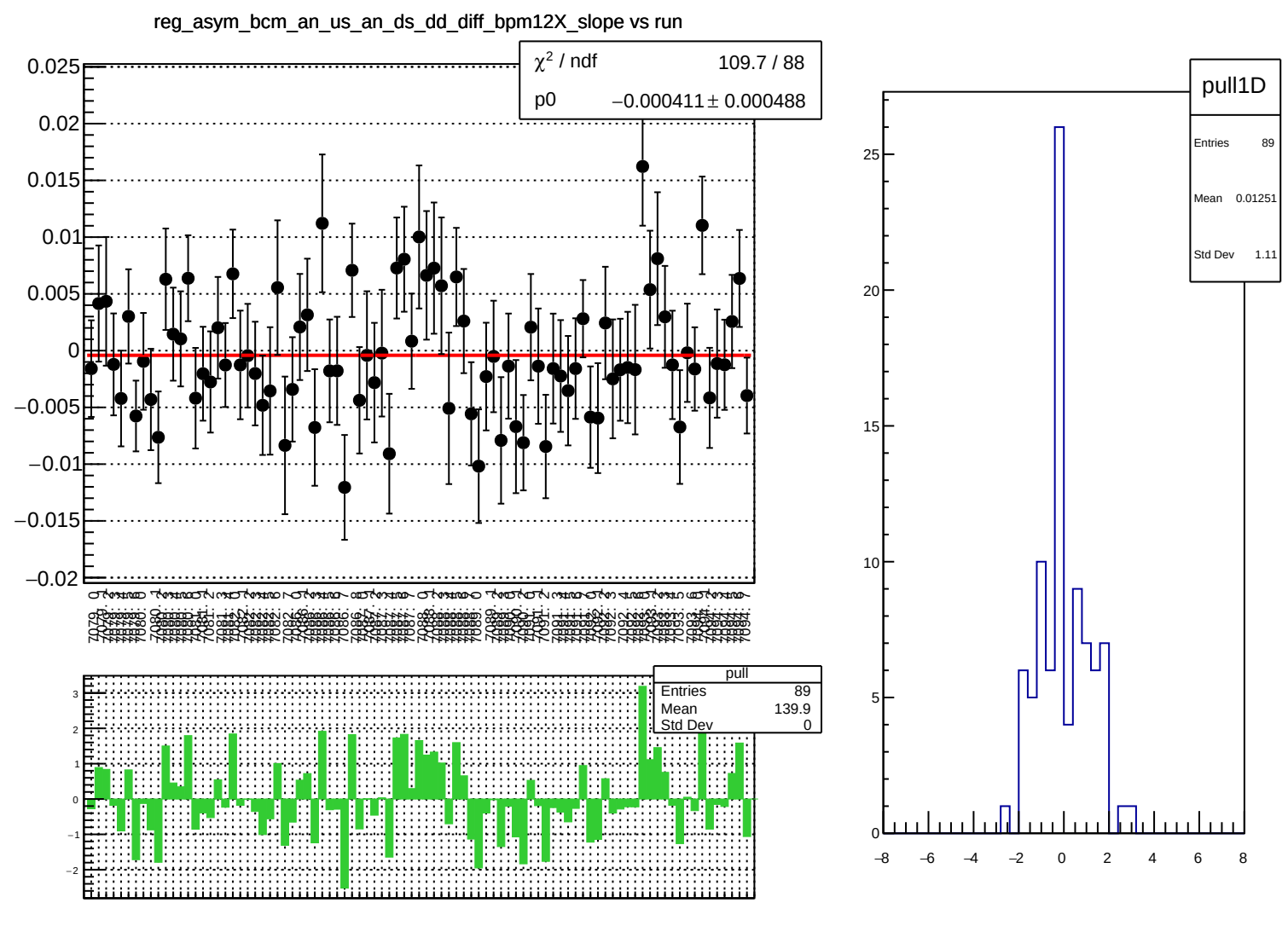

pull1D
Entries 89
Mean −0.0008938
Std Dev 1.034

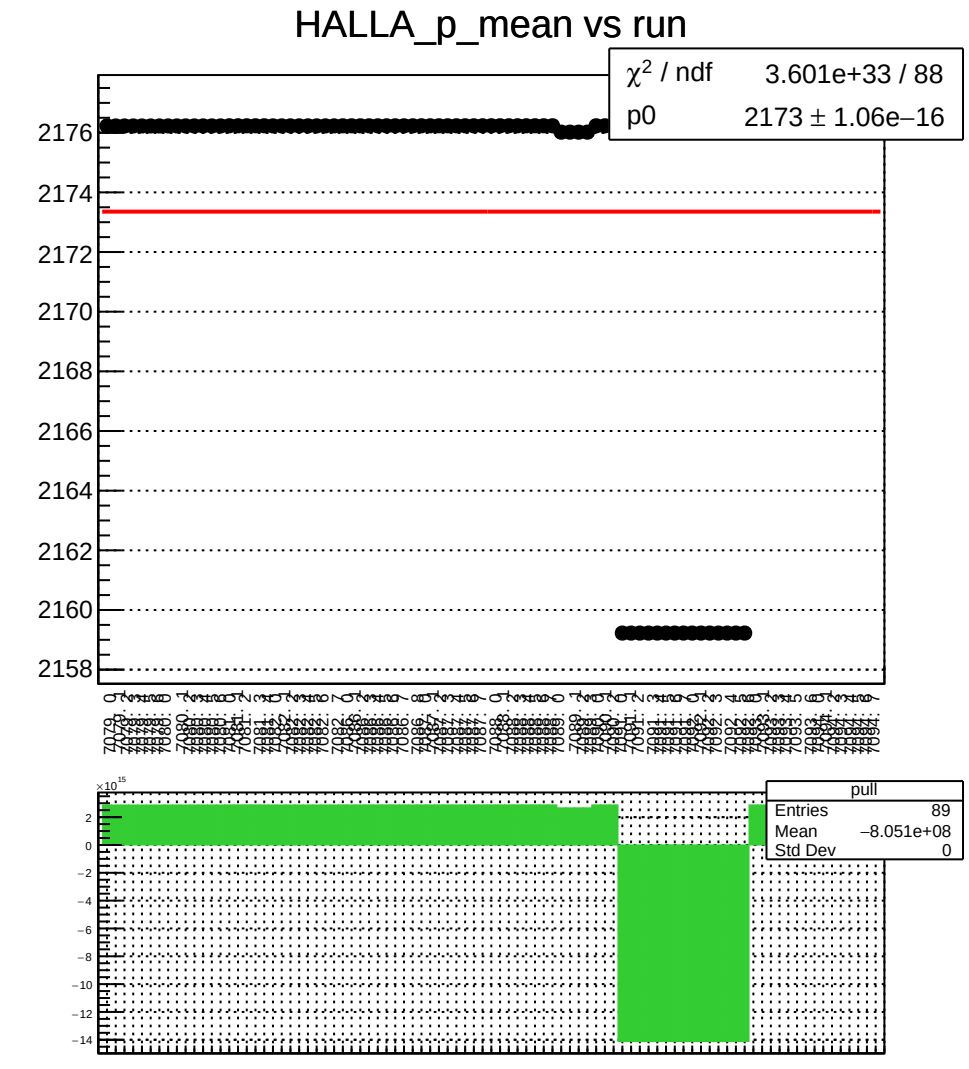

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.07 / 88
p0 0.01758 ± 0.01347
pull
Entries 89
Mean 182
Std Dev 0

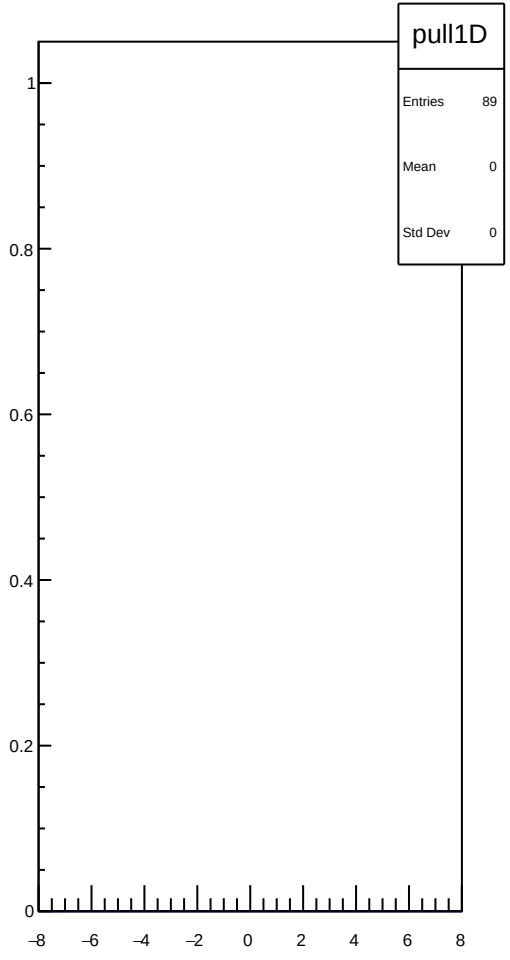

pull1D
Entries 89
Mean 0.02949
Std Dev 1.033

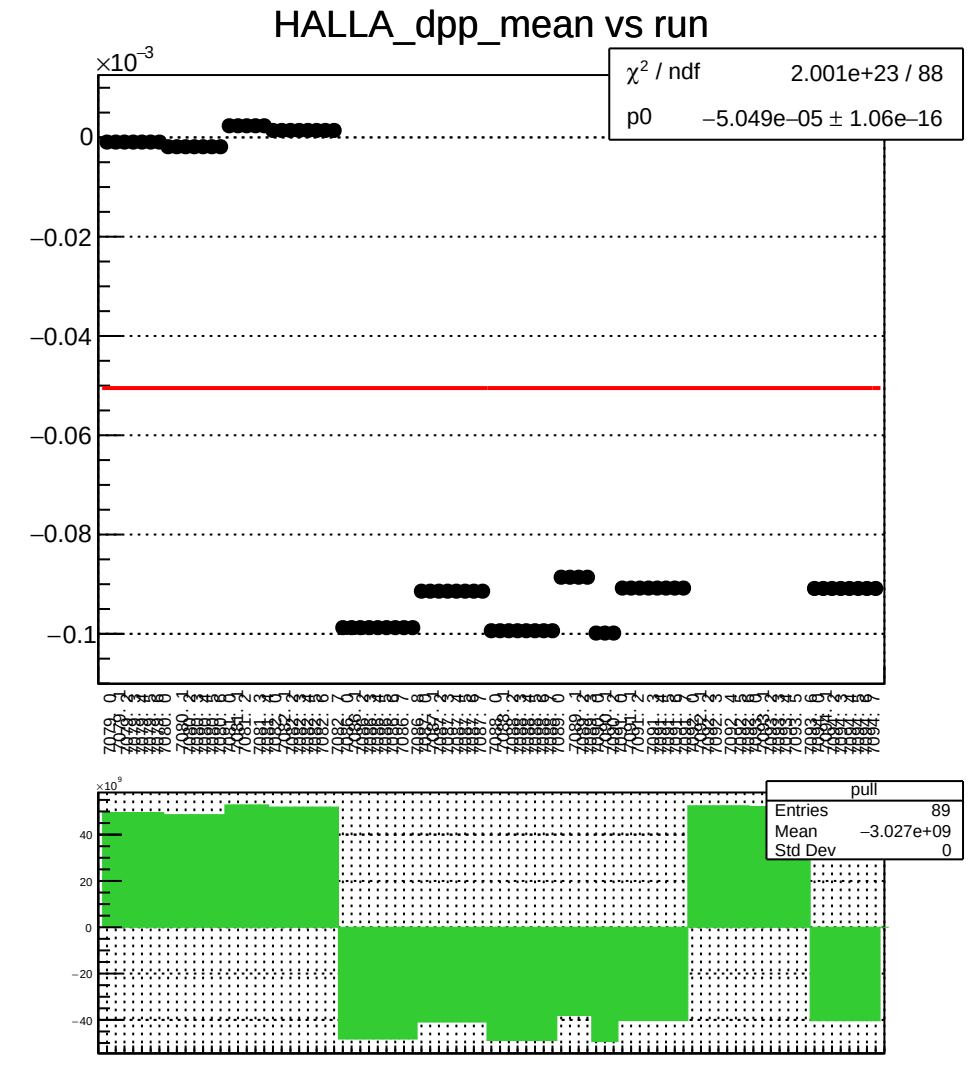

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 95.01 / 88
p0 −0.005346 ± 0.01052
pull
Entries 89
Mean −185.4
Std Dev 0

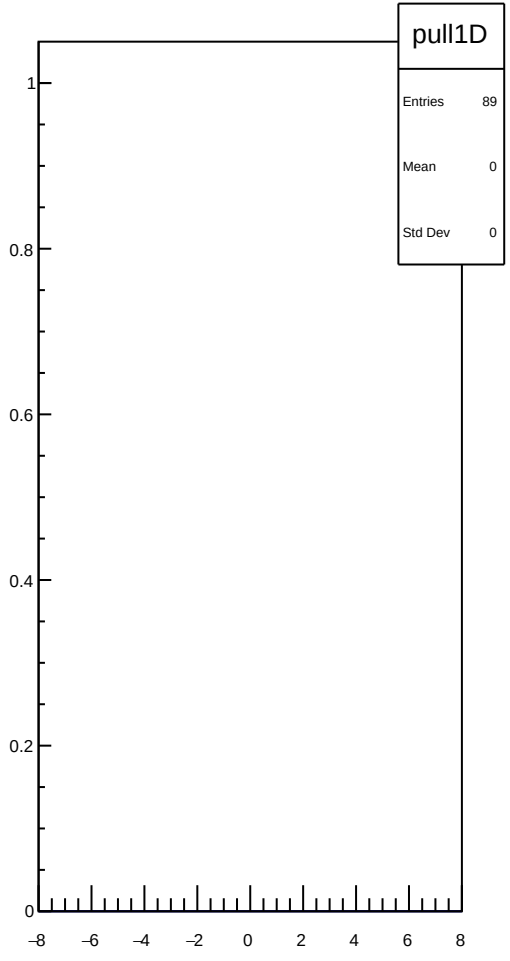

pull1D
Entries 89
Mean 0.003877
Std Dev 1.033

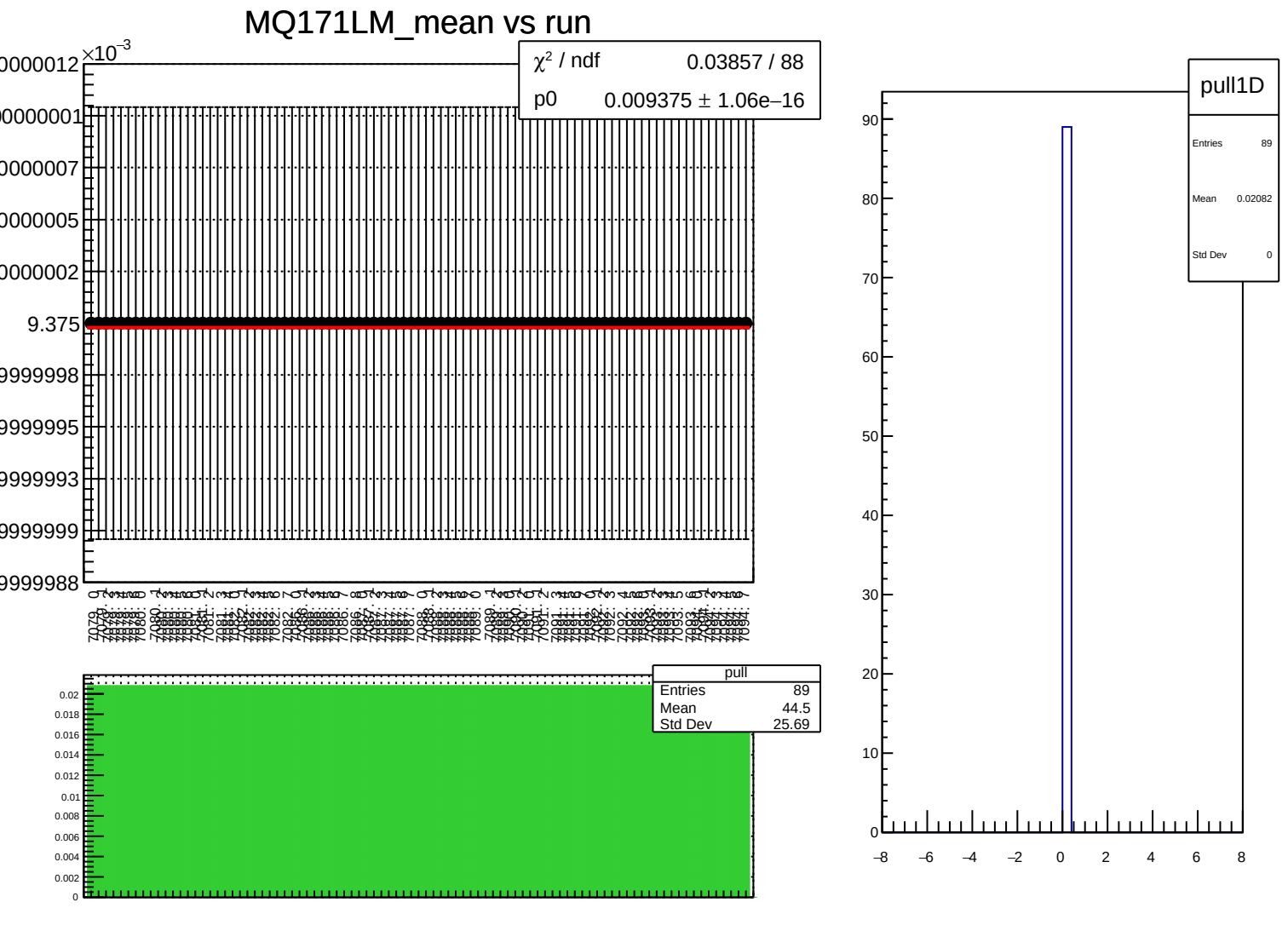

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 109.7 / 88
p0 −0.000411 ± 0.000488
pull
Entries 89
Mean 139.9
Std Dev 0
pull1D
Entries 89
Mean 0.01251
Std Dev 1.11

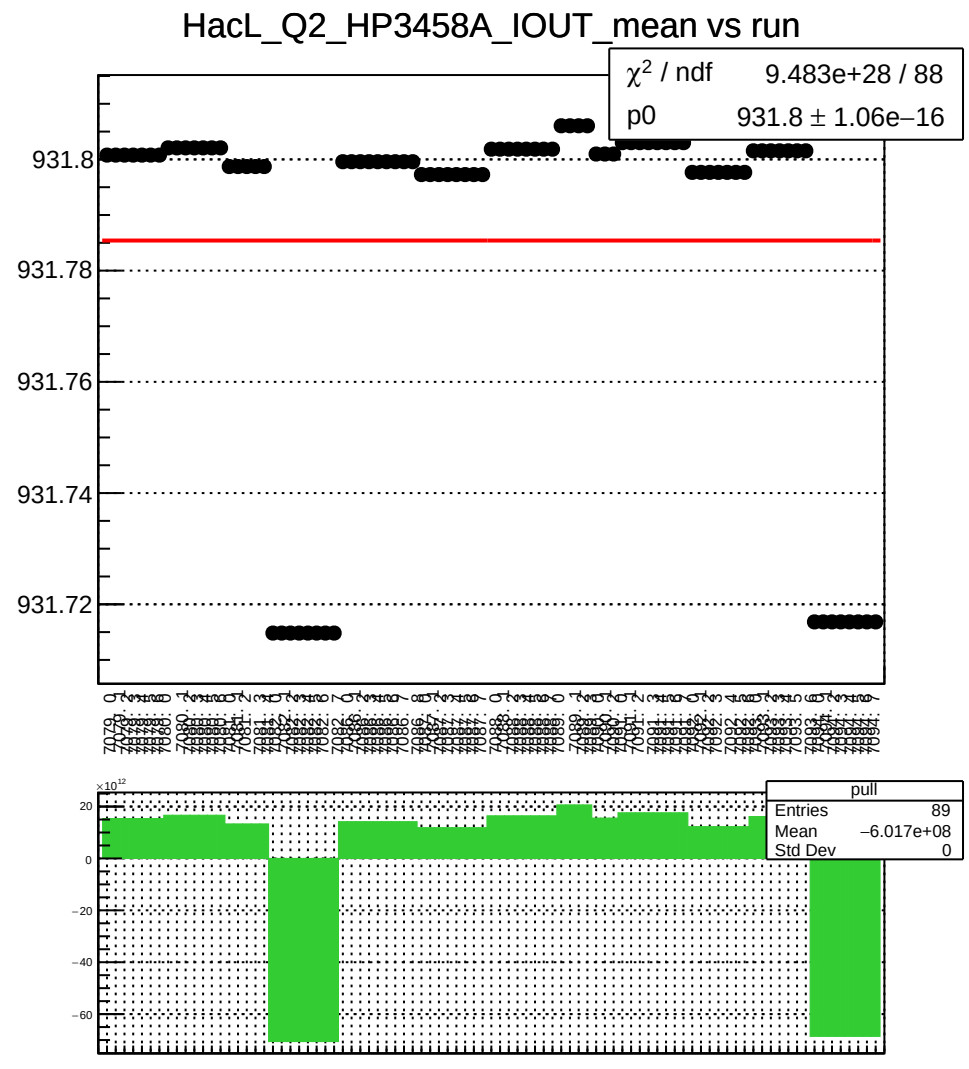

HALLA_p_mean vs run
χ² / ndf 3.601e+33 / 88
p0 2173 ± 1.06e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 89
Mean −8.051e+08
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

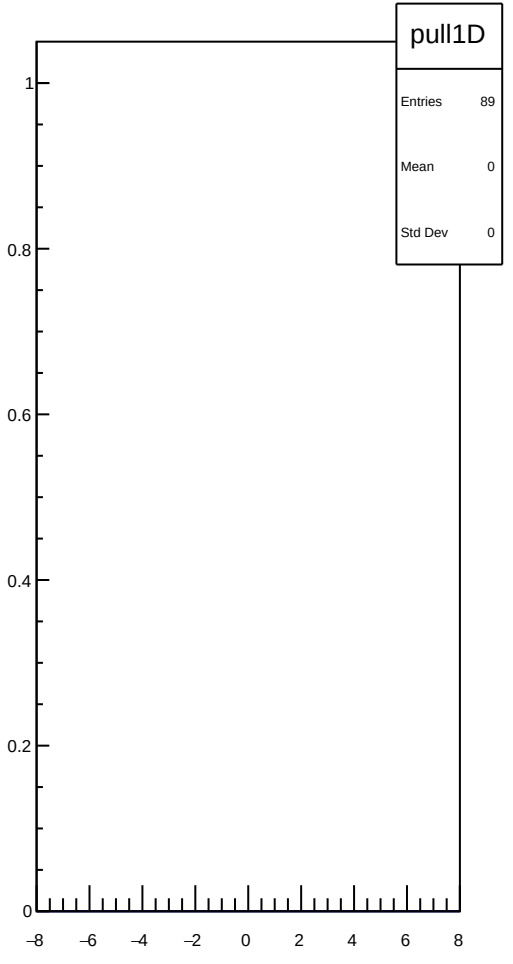

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

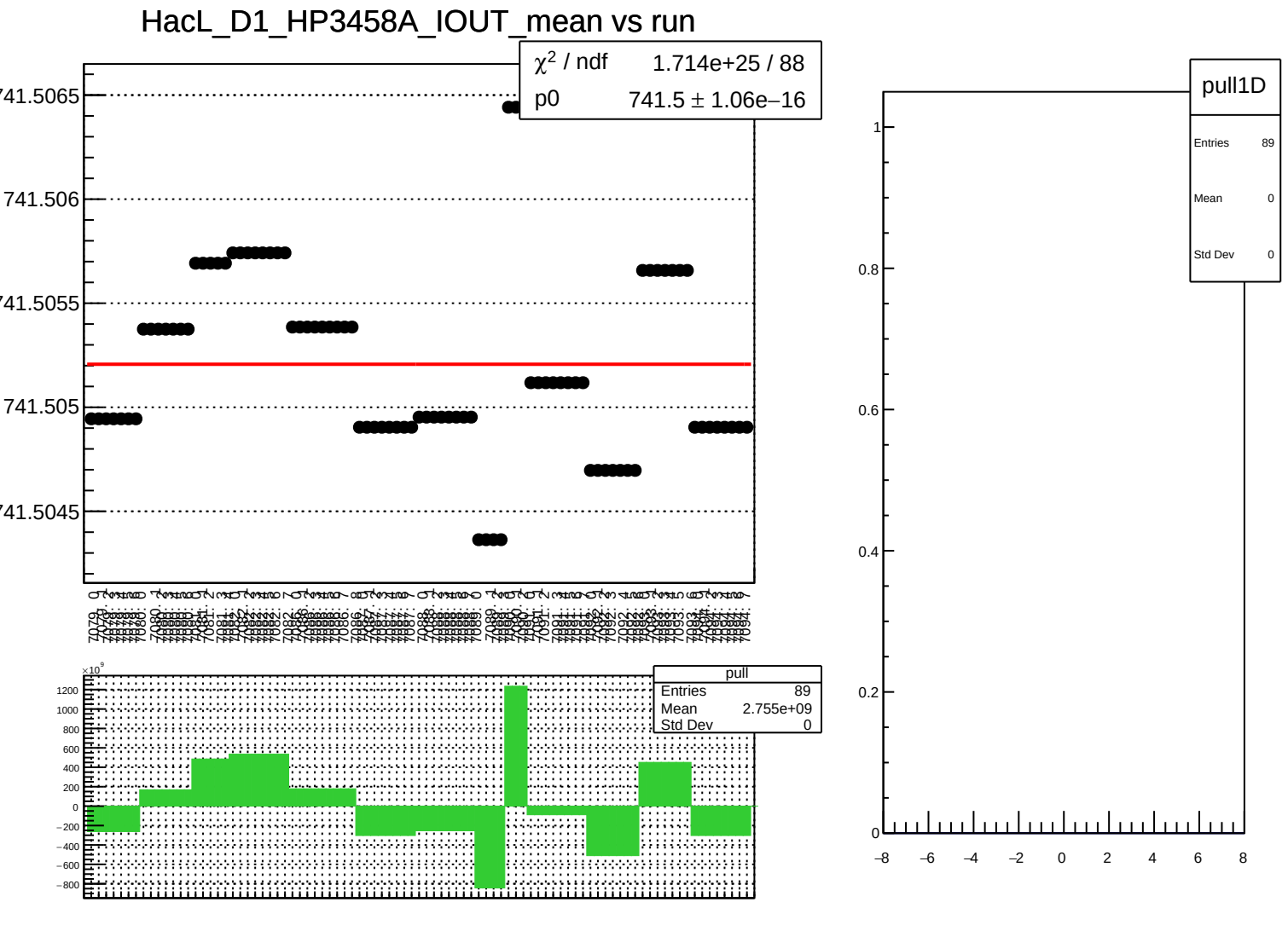

HALLA_dpp_mean vs run
χ² / ndf 2.001e+23 / 88
p0 −5.049e−05 ± 1.06e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
40
20
0
−20
−40
pull
Entries 89
Mean −3.027e+09
Std Dev 0

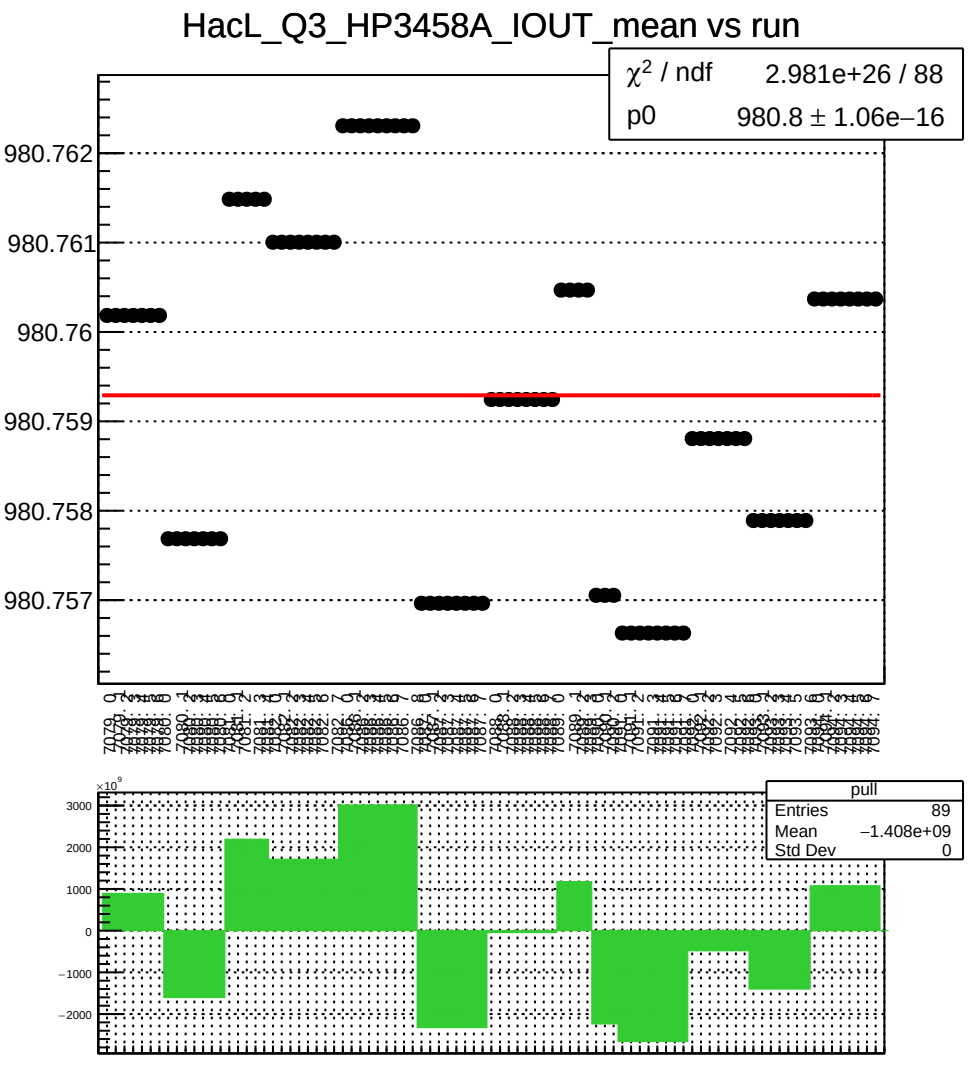

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

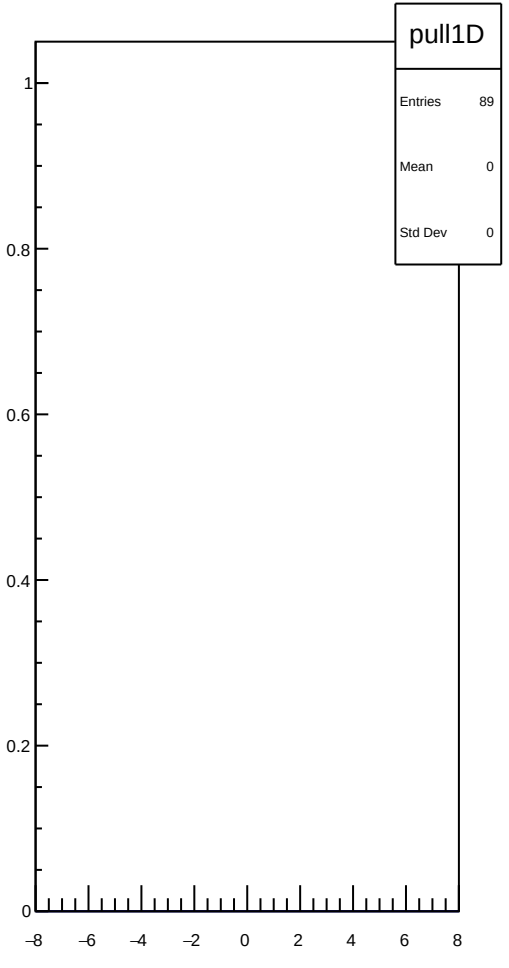

MQ171LM_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

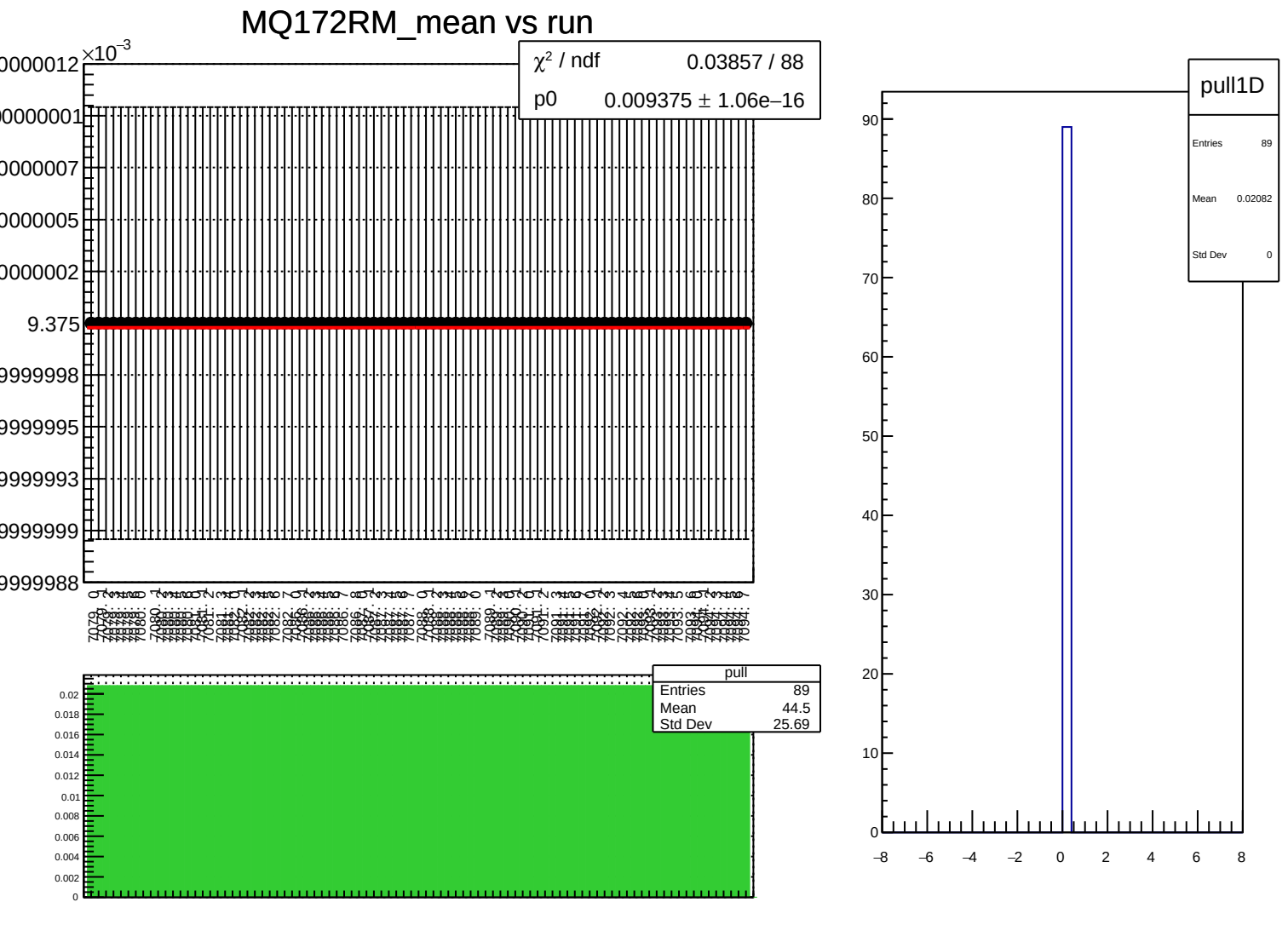

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 9.483e+28 / 88
p0 931.8 ± 1.06e−16
931.8
931.78
931.76
931.74
931.72
pull
Entries 89
Mean −6.017e+08
Std Dev 0
20
0
−20
−40
−60

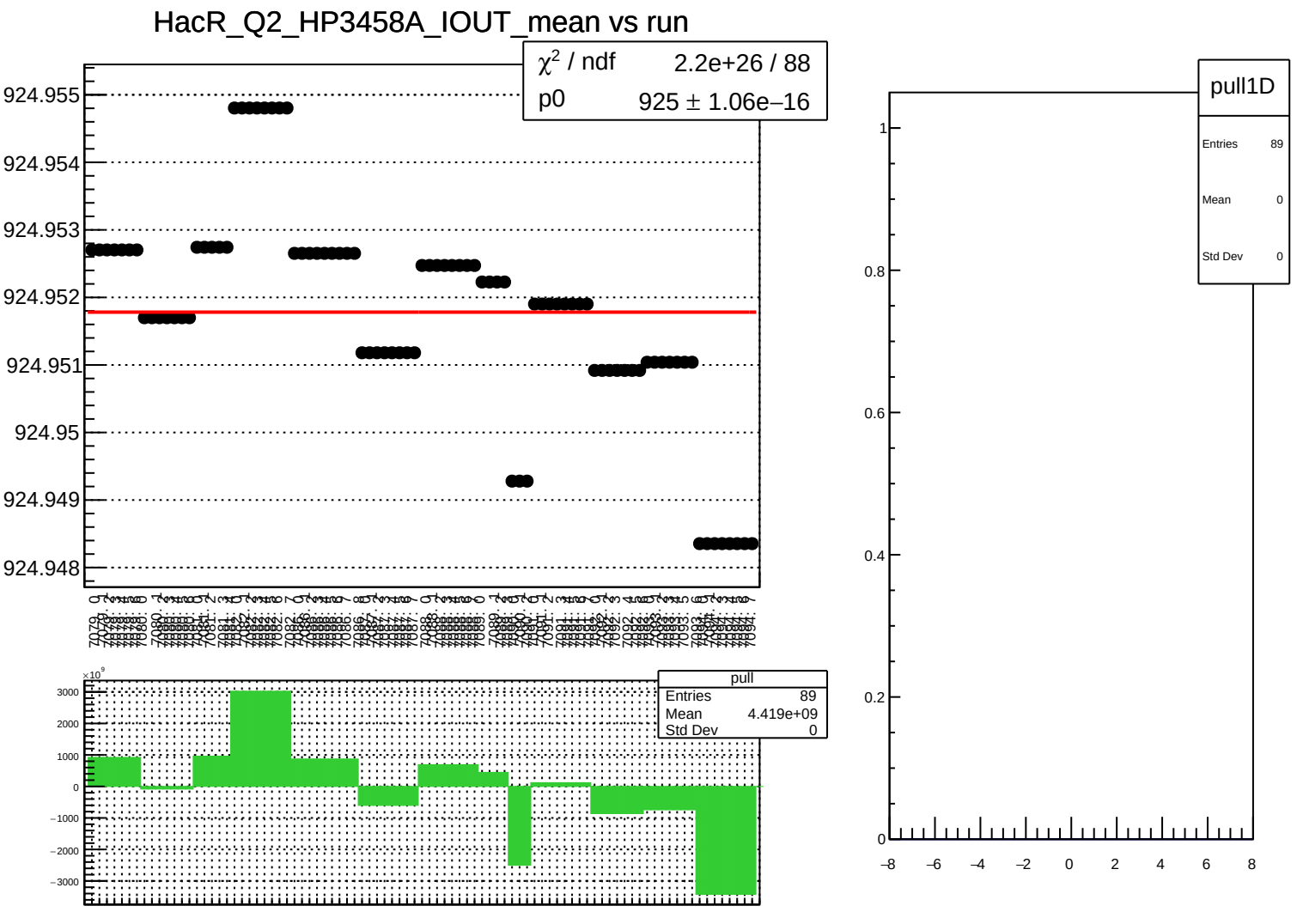

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

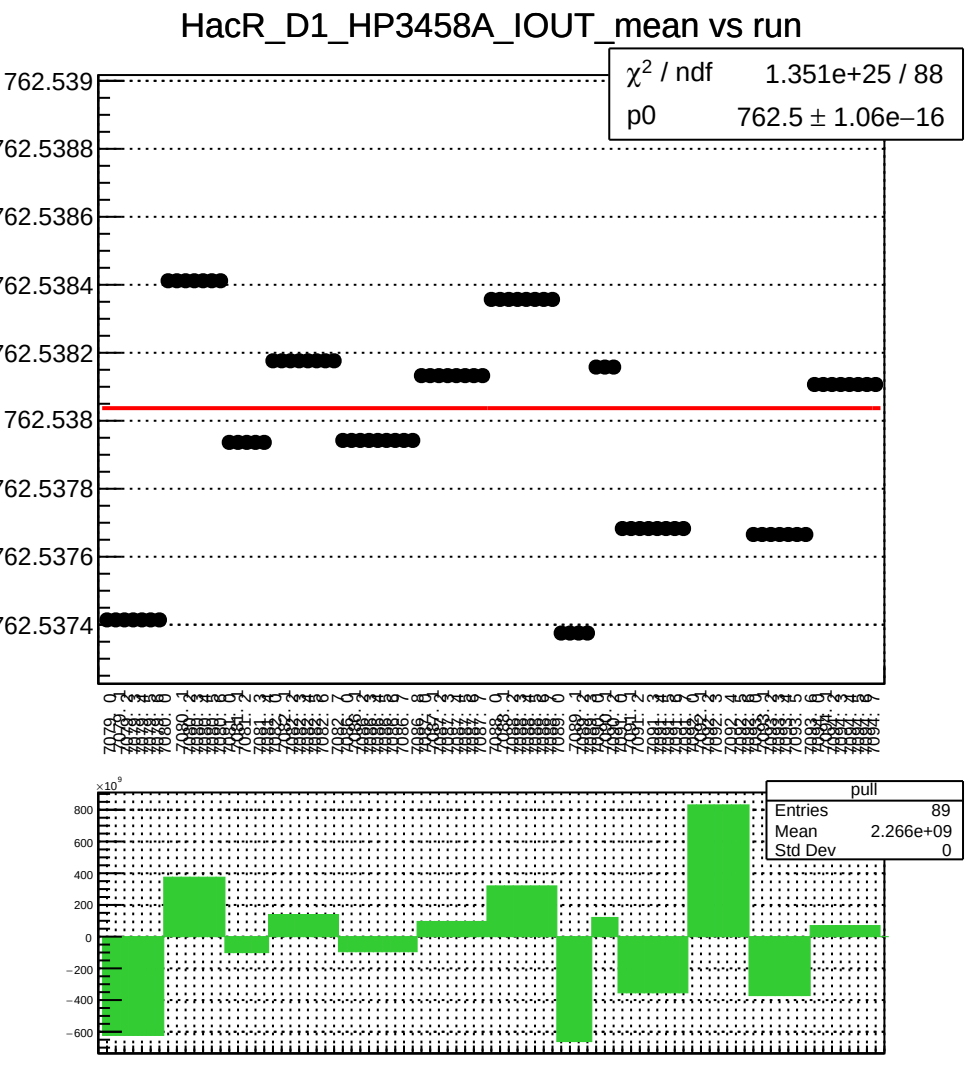

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.714e+25 / 88
p0 741.5 ± 1.06e−16
741.5065
741.506
741.5055
741.505
741.5045
×10⁹
1200
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 89
Mean 2.755e+09
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

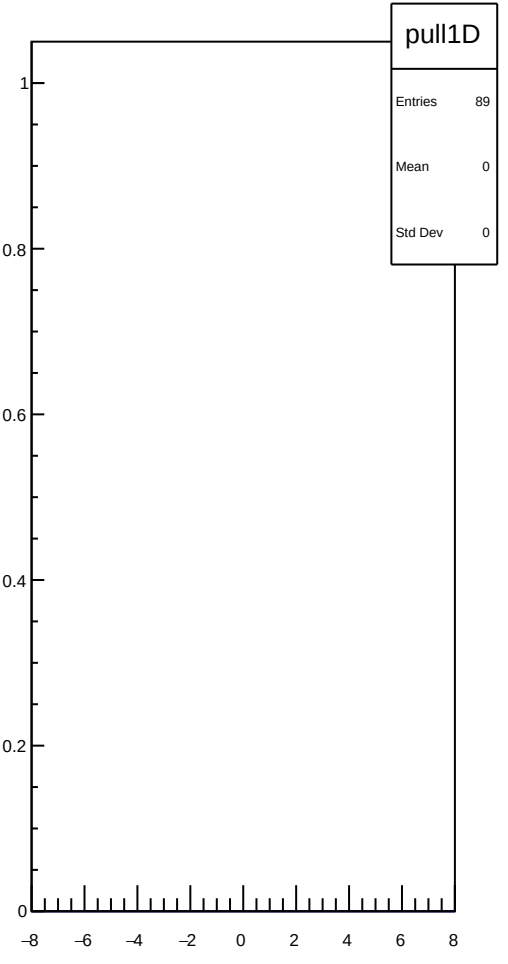

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.981e+26 / 88
p0 980.8 ± 1.06e−16
980.762
980.761
980.76
980.759
980.758
980.757
×10⁹
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −1.408e+09
Std Dev 0

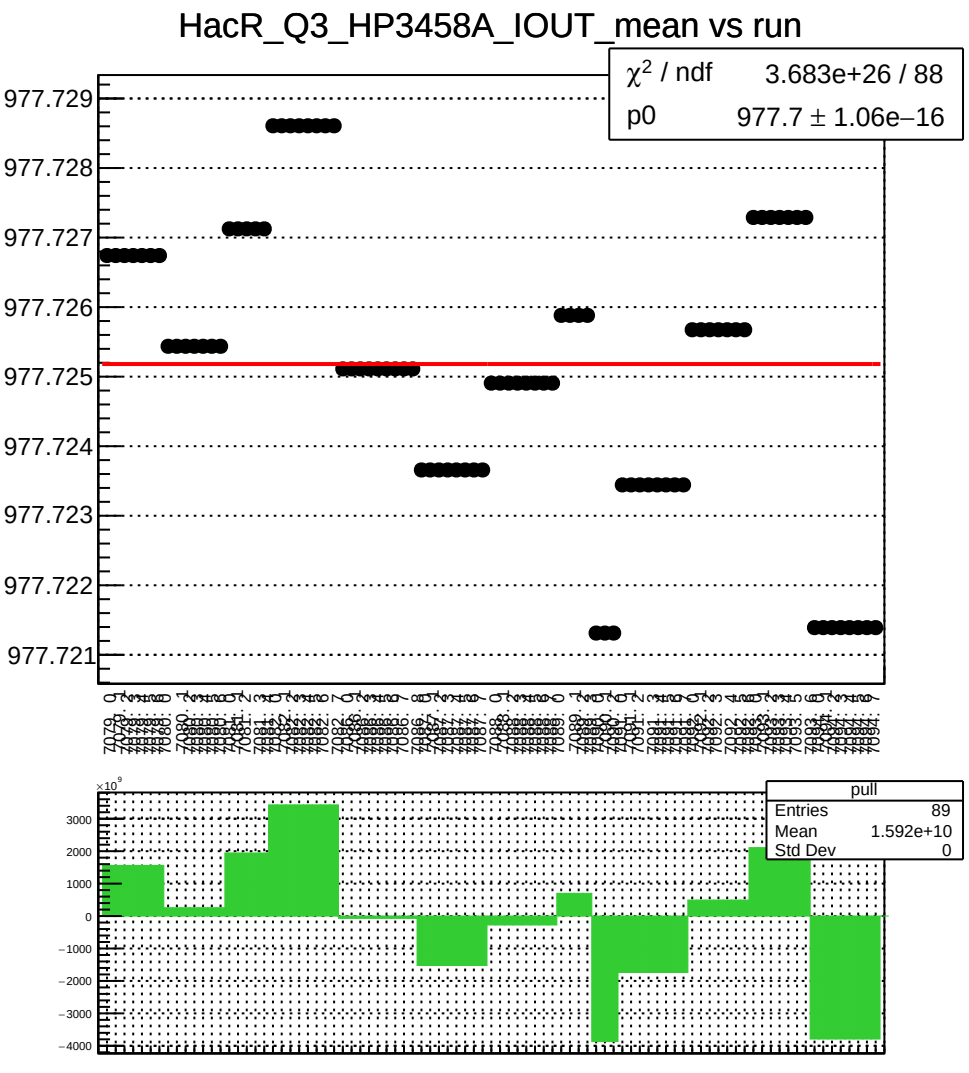

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

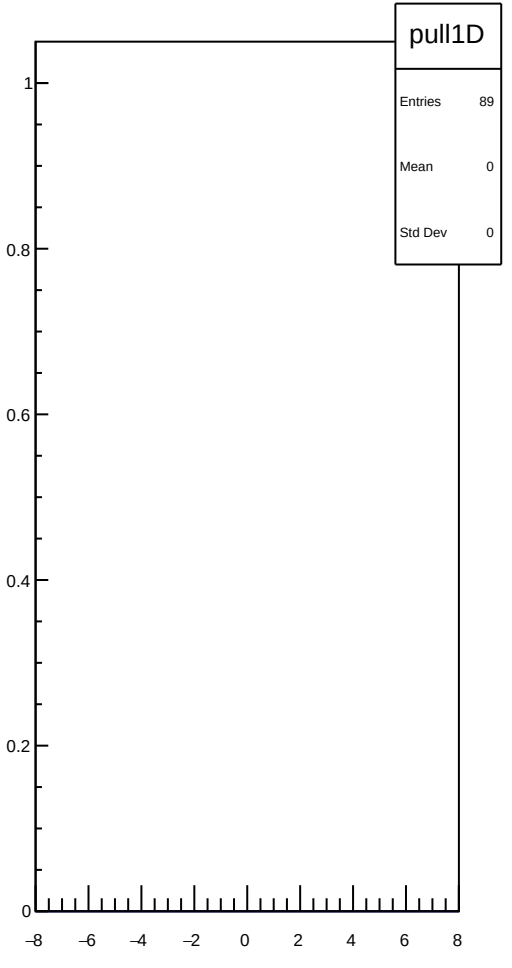

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
9.375
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

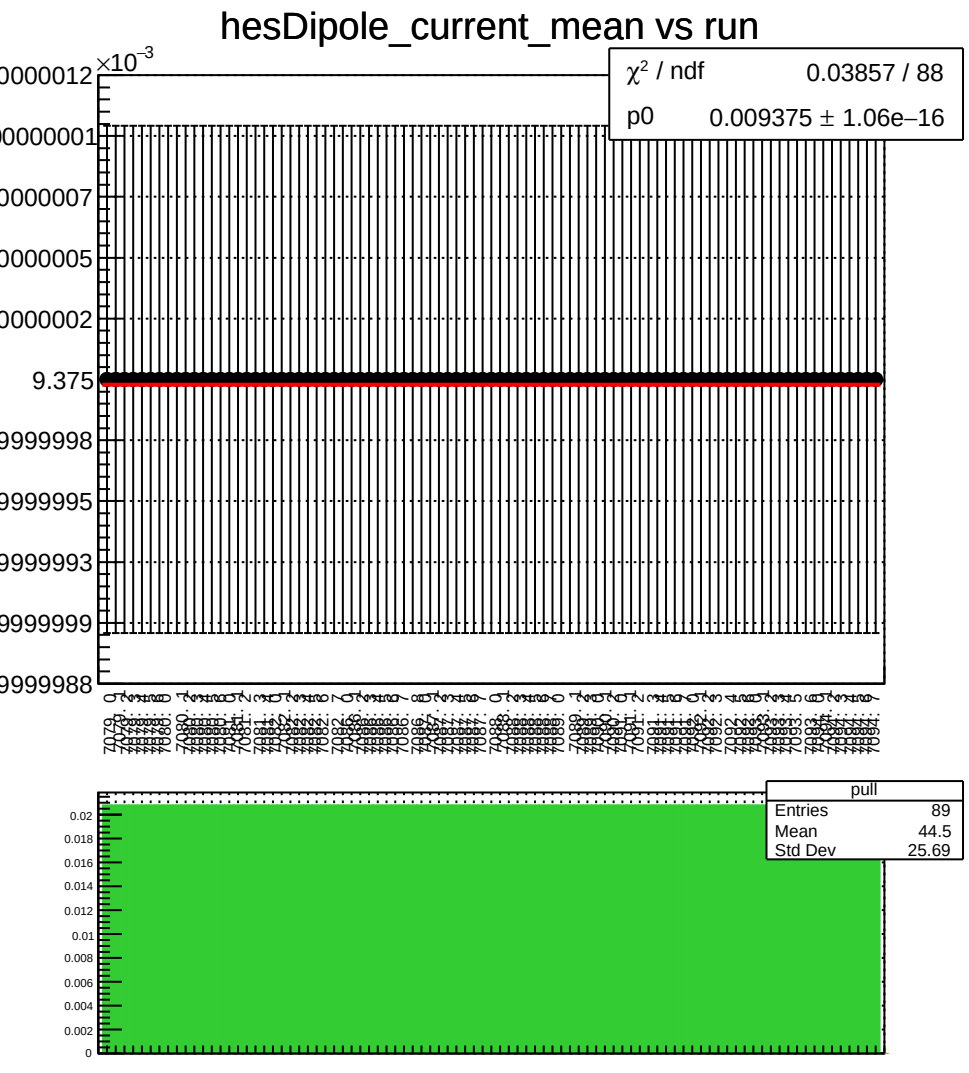

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.2e+26 / 88
p0 925 ± 1.06e−16
924.955
924.954
924.953
924.952
924.951
924.95
924.949
924.948
pull
Entries 89
Mean 4.419e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

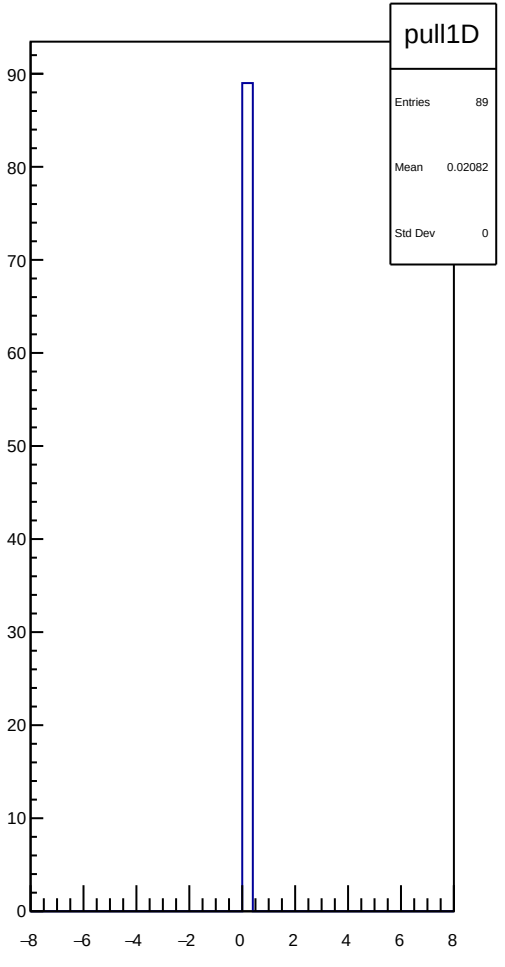

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.351e+25 / 88
p0 762.5 ± 1.06e−16
762.539
762.5388
762.5386
762.5384
762.5382
762.538
762.5378
762.5376
762.5374
×10⁹
800
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean 2.266e+09
Std Dev 0

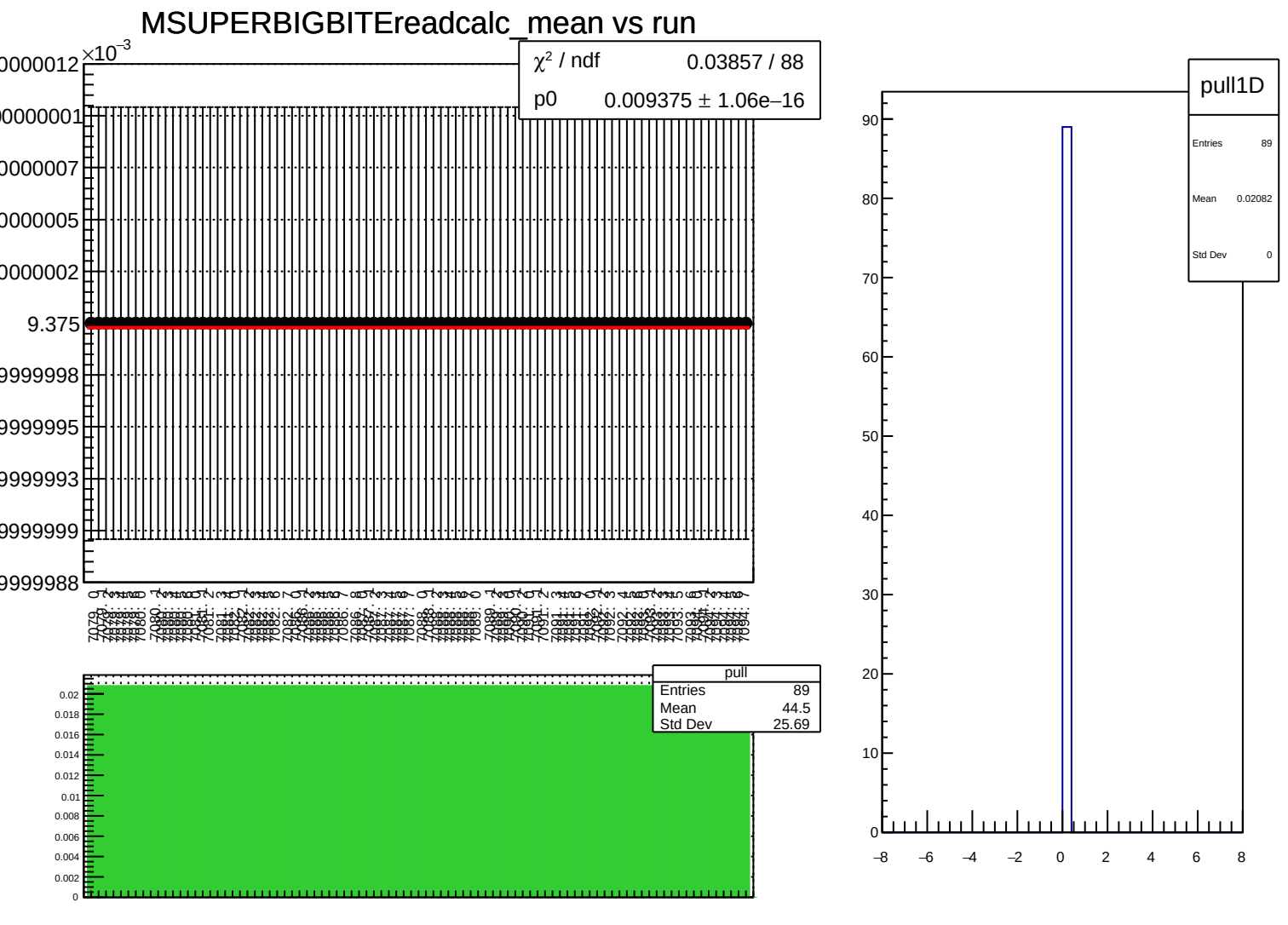

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

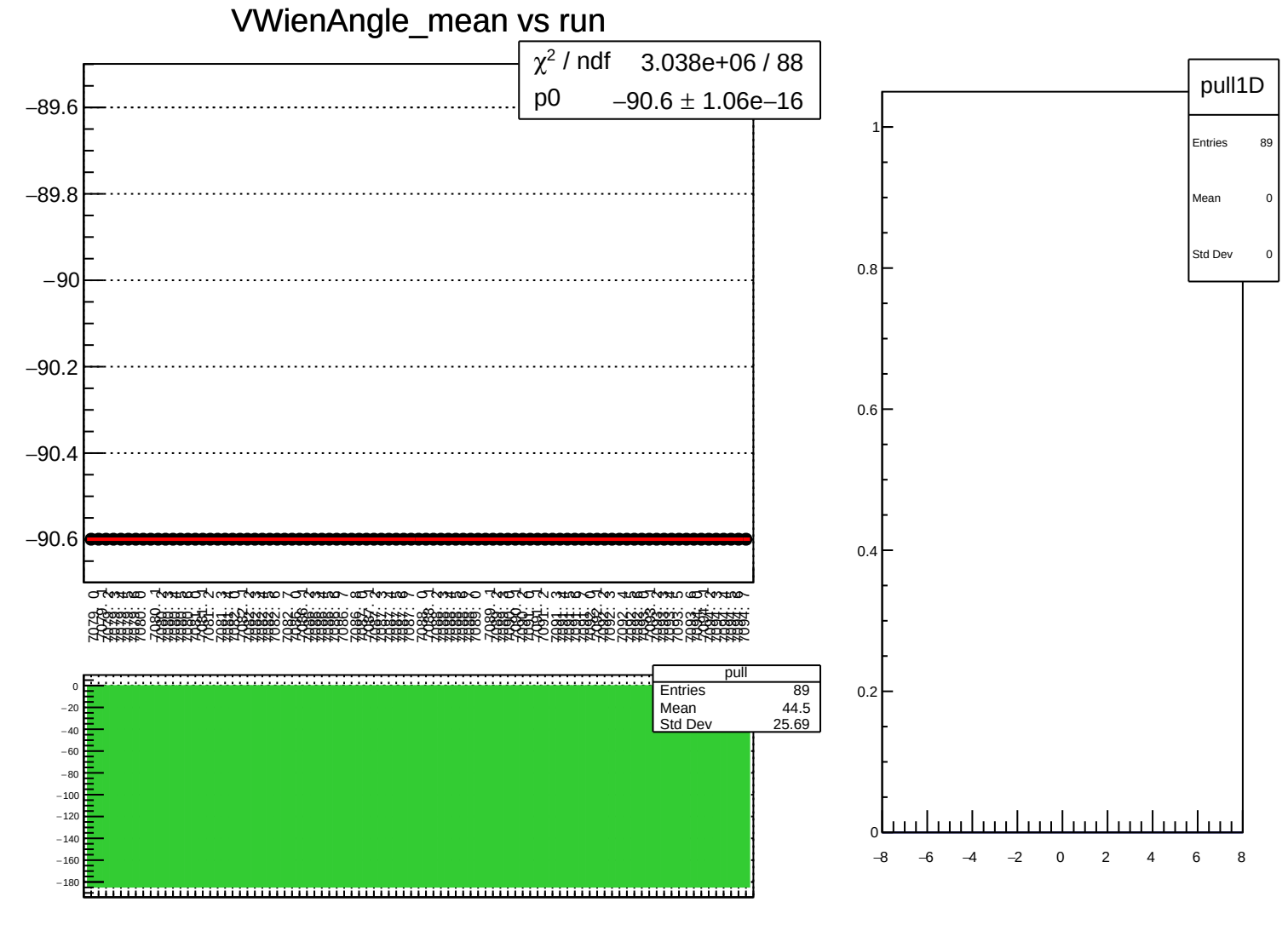

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.683e+26 / 88
p0 977.7 ± 1.06e−16
977.729
977.728
977.727
977.726
977.725
977.724
977.723
977.722
977.721
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean 1.592e+10
Std Dev 0

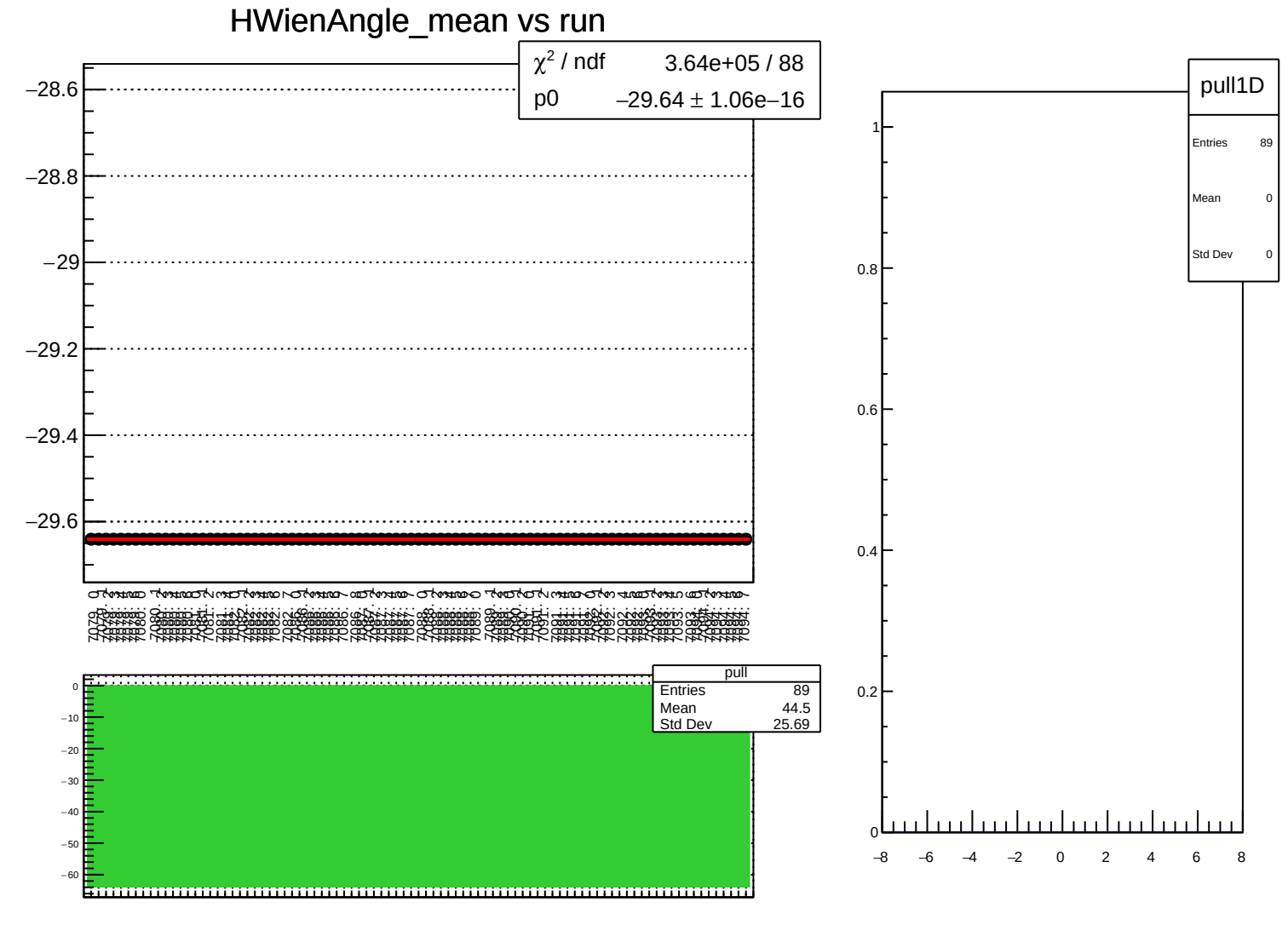

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

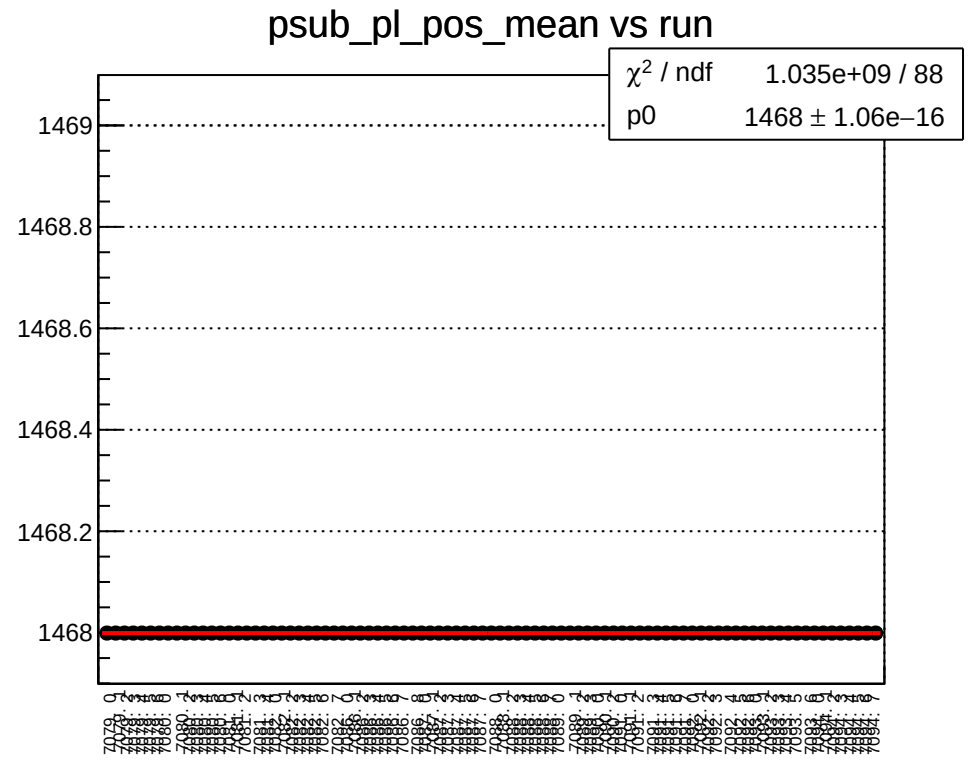

hesDipole_current_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69

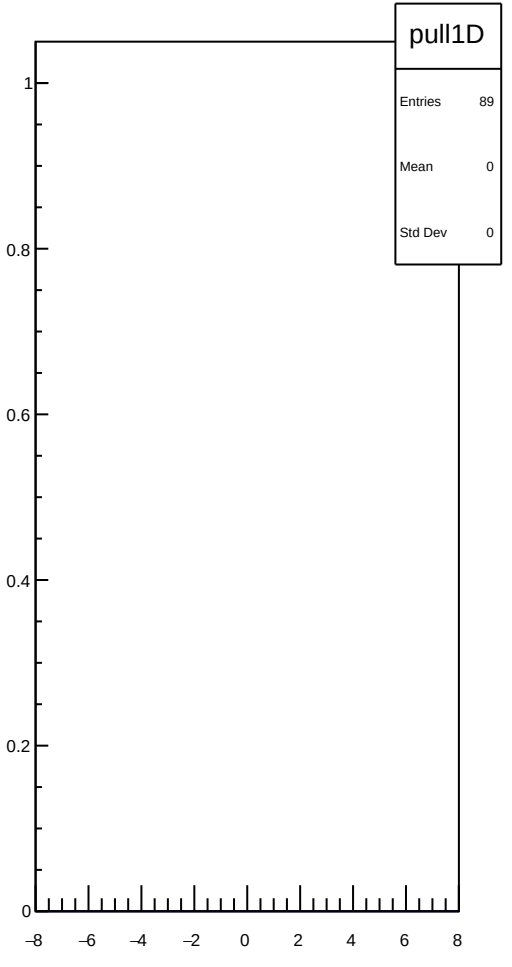

pull1D
Entries 89
Mean 0.02082
Std Dev 0

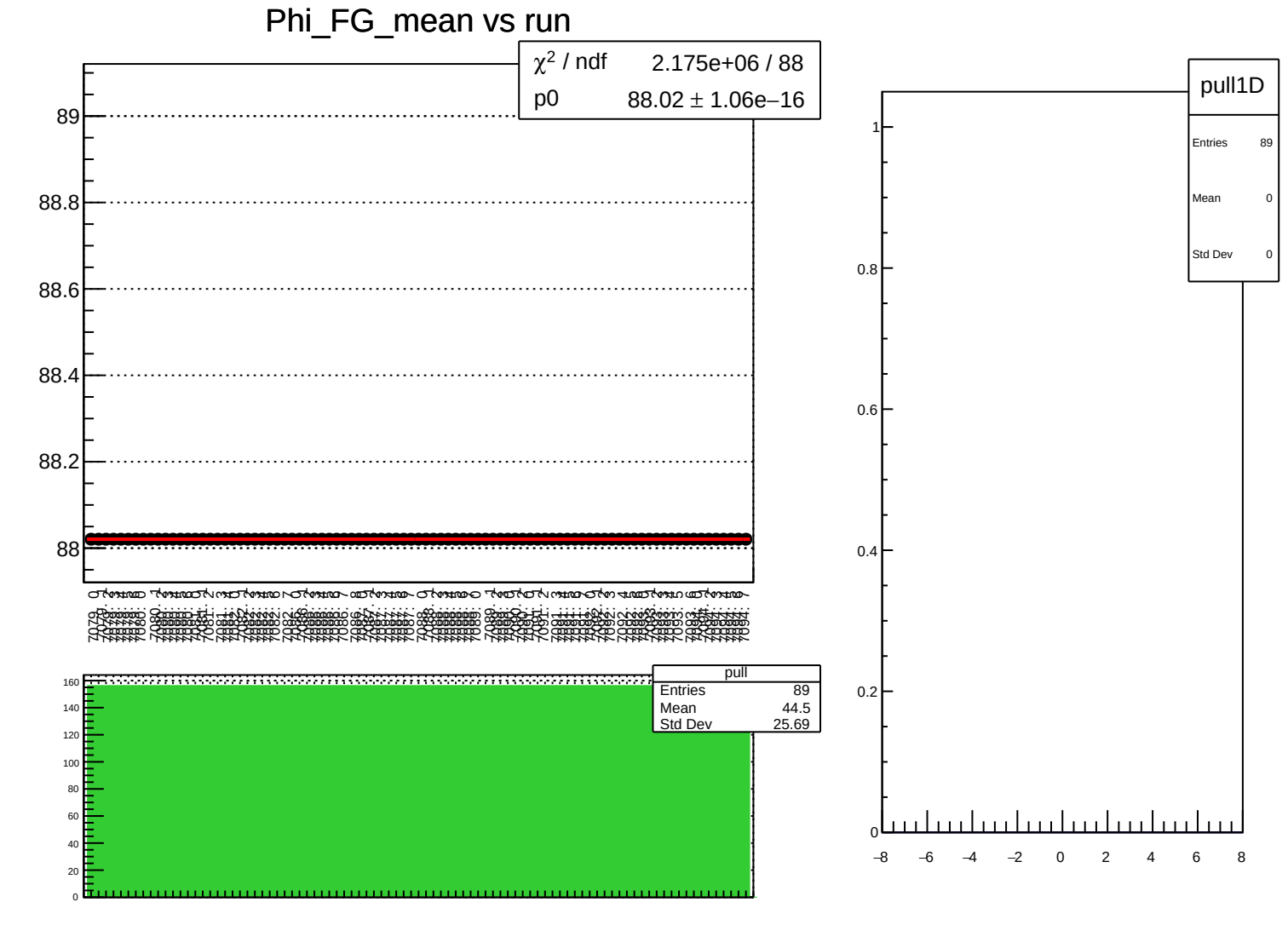

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

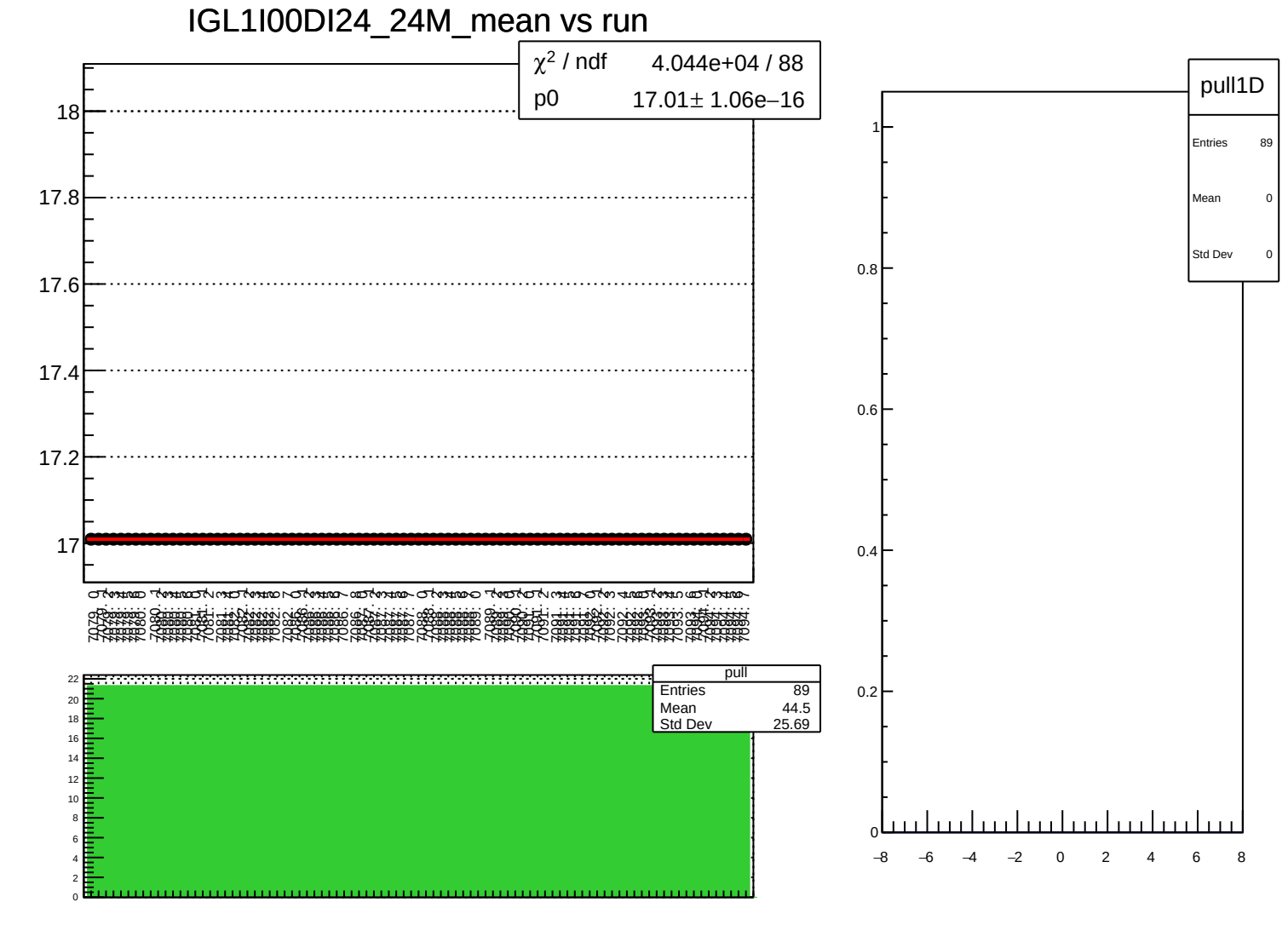

VWienAngle_mean vs run
χ² / ndf 3.038e+06 / 88
p0 −90.6 ± 1.06e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

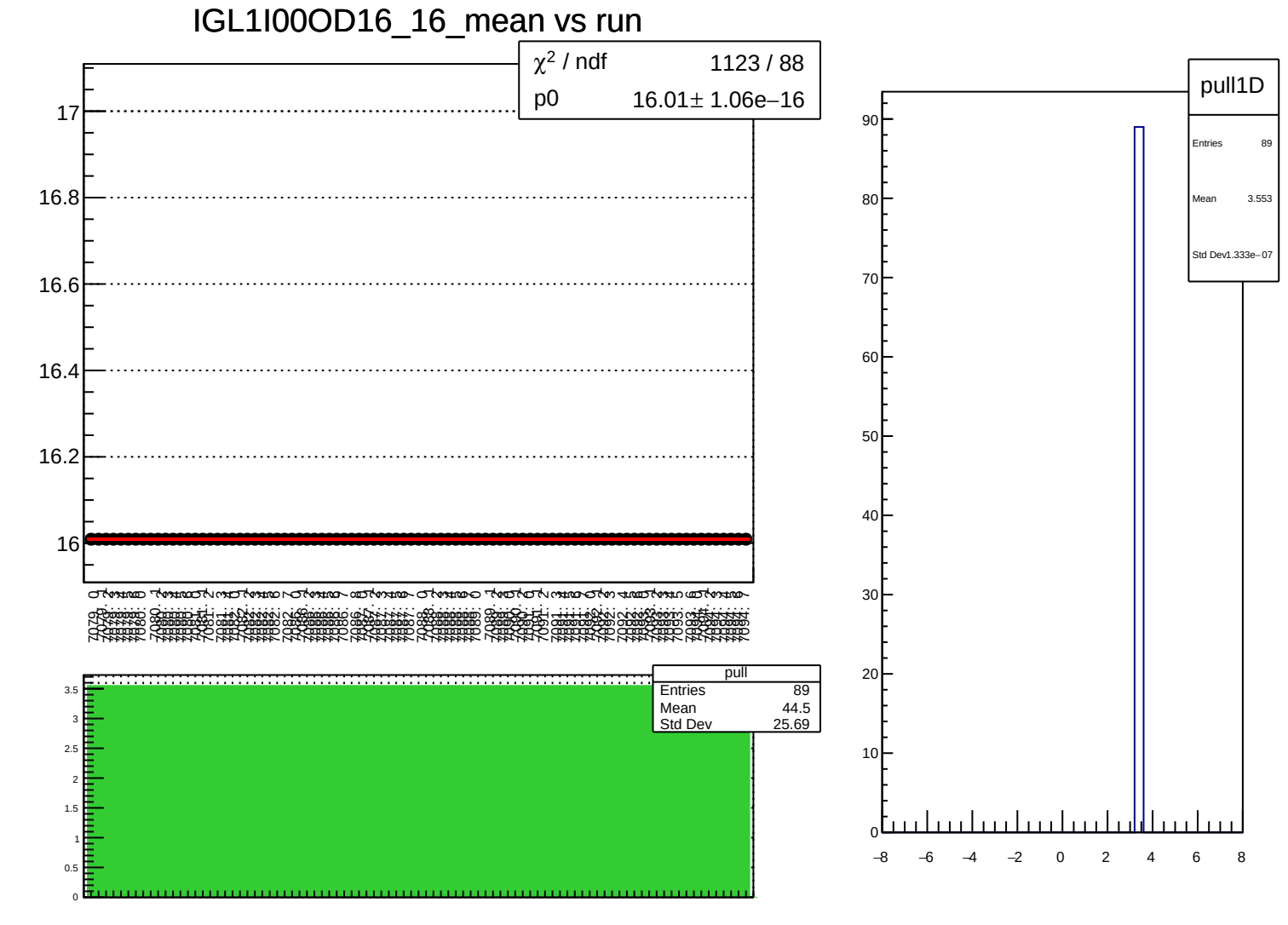

HWienAngle_mean vs run
χ² / ndf 3.64e+05 / 88
p0 −29.64 ± 1.06e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

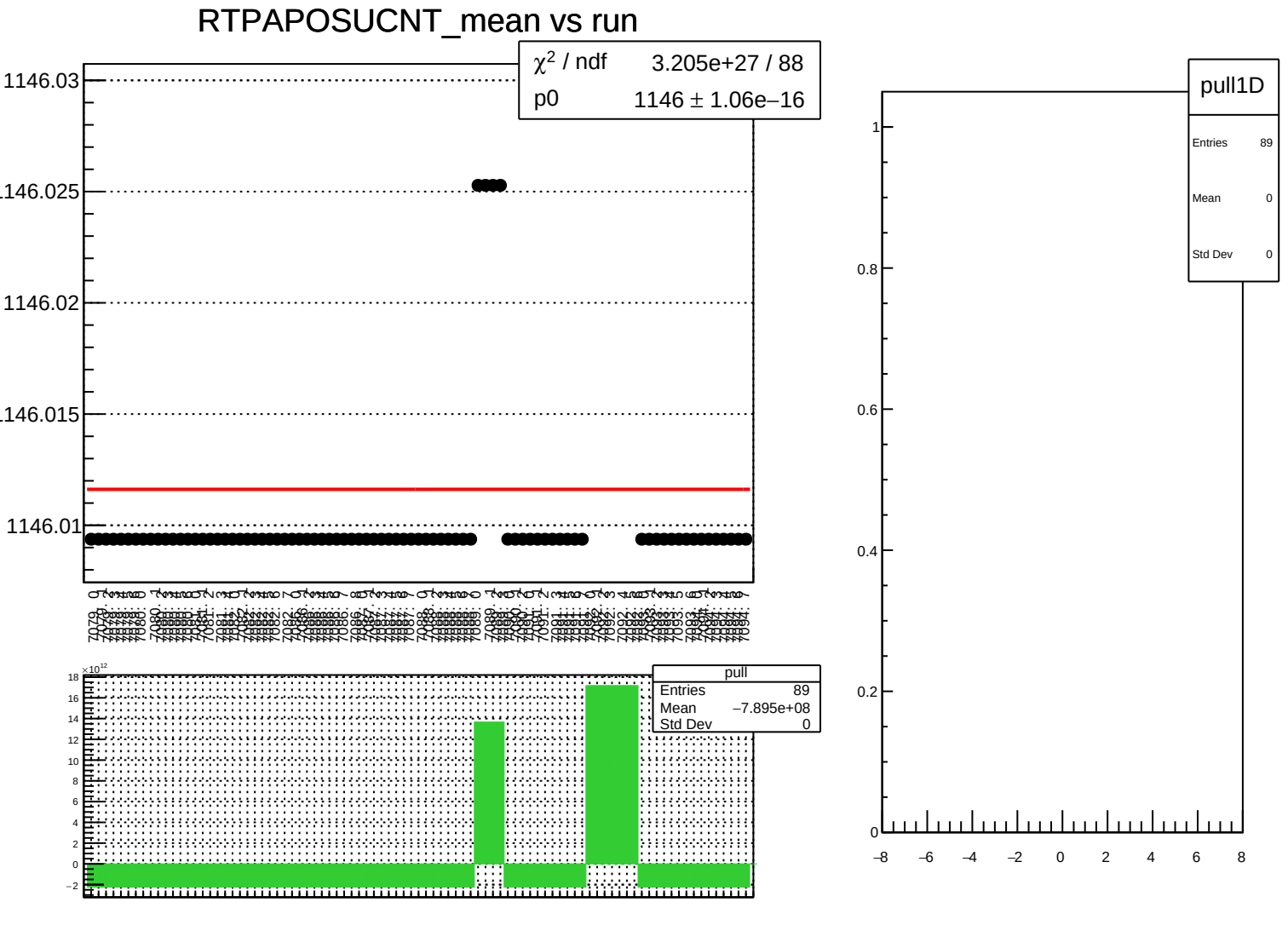

psub_pl_pos_mean vs run
χ² / ndf 1.035e+09 / 88
p0 1468 ± 1.06e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 89
Mean 44.5
Std Dev 25.69
3500
3000
2500
2000
1500
1000
500
0

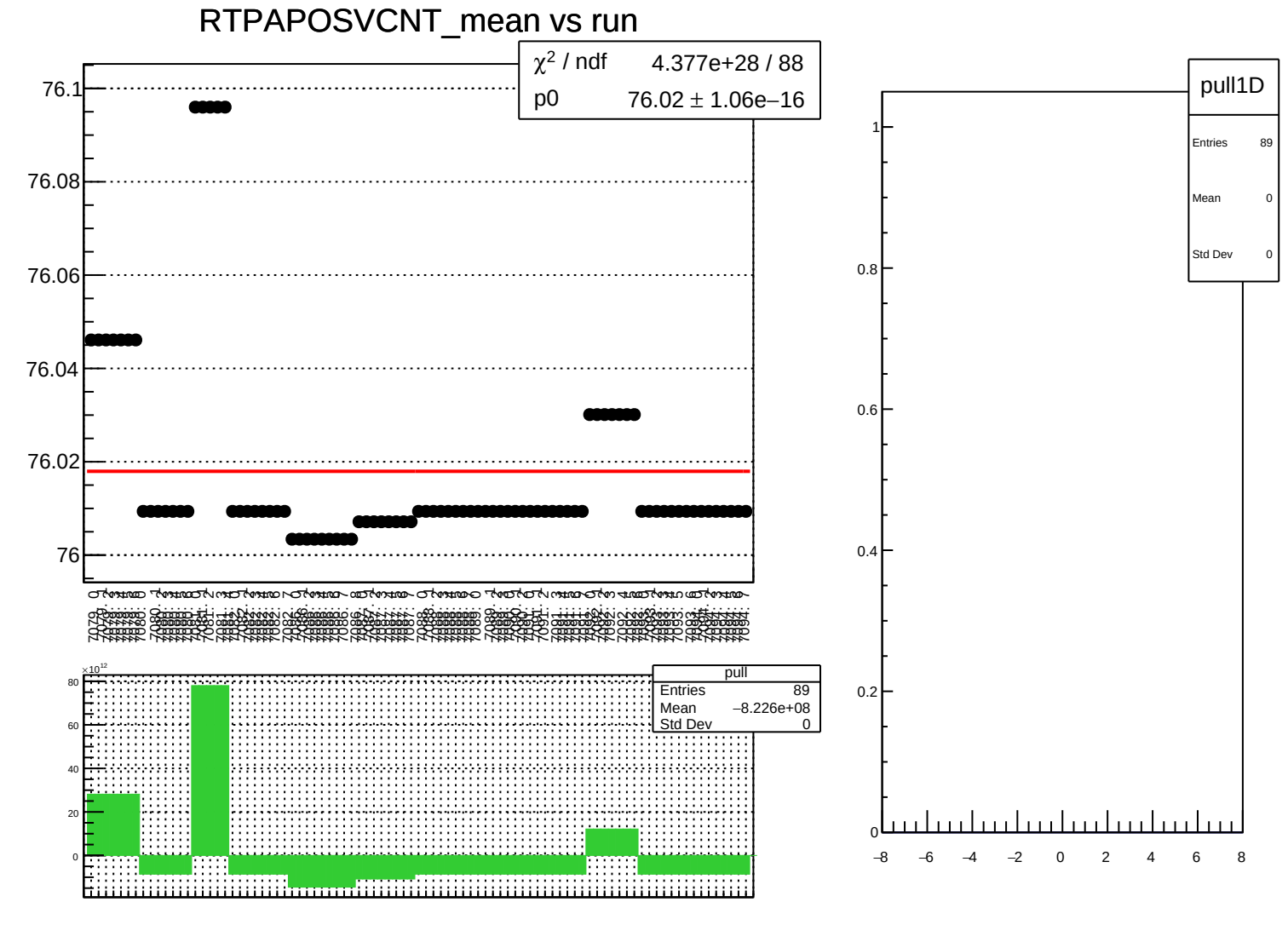

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

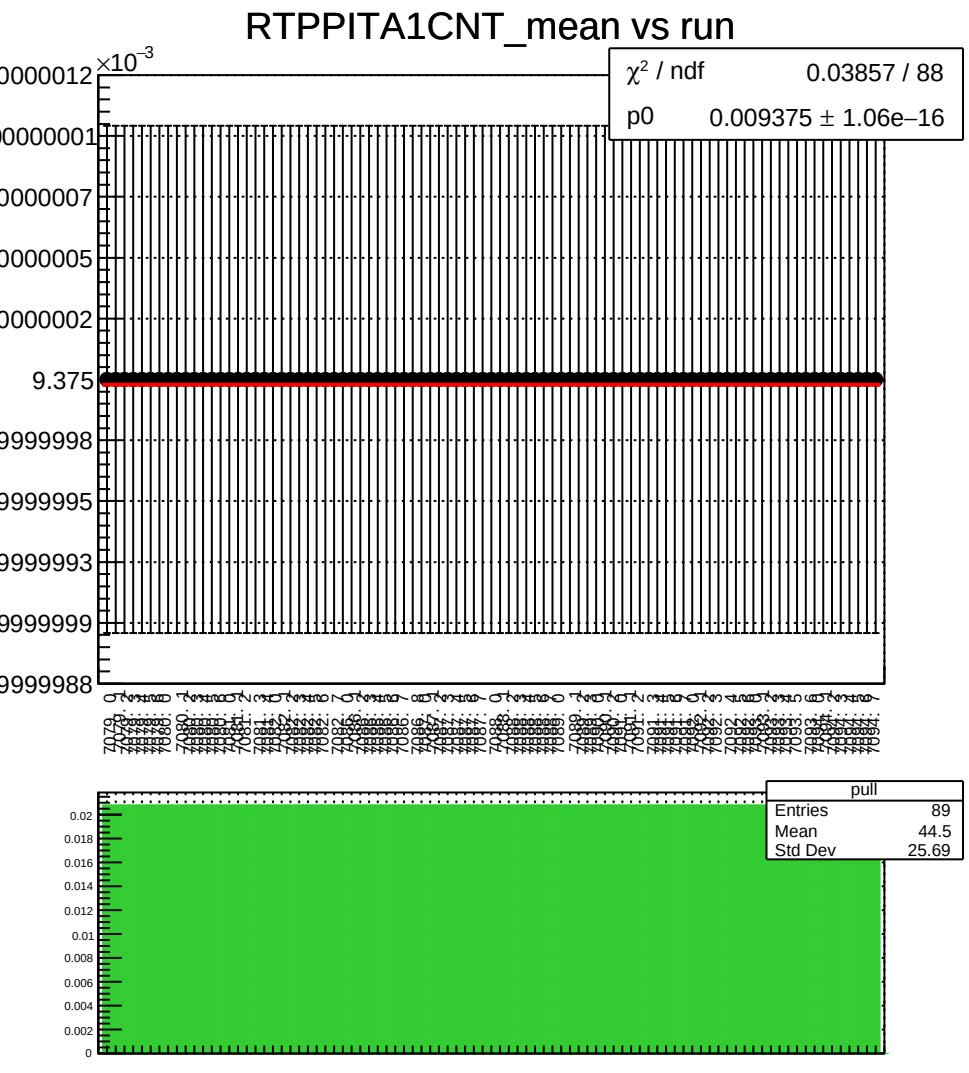

Phi_FG_mean vs run
χ² / ndf 2.175e+06 / 88
p0 88.02 ± 1.06e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 89
Mean 44.5
Std Dev 25.69
160
140
120
100
80
60
40
20
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

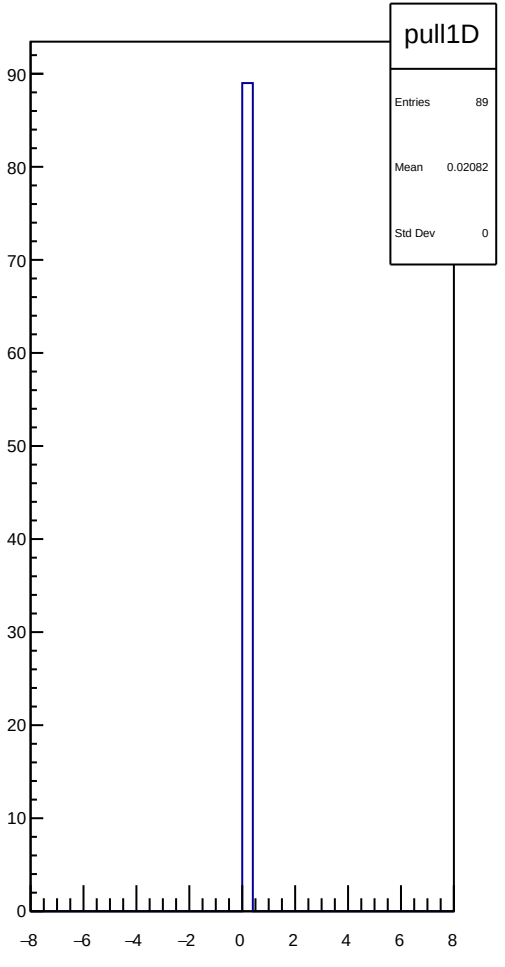

IGL1I00DI24_24M_mean vs run
χ² / ndf 4.044e+04 / 88
p0 17.01± 1.06e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 89
Mean 44.5
Std Dev 25.69
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

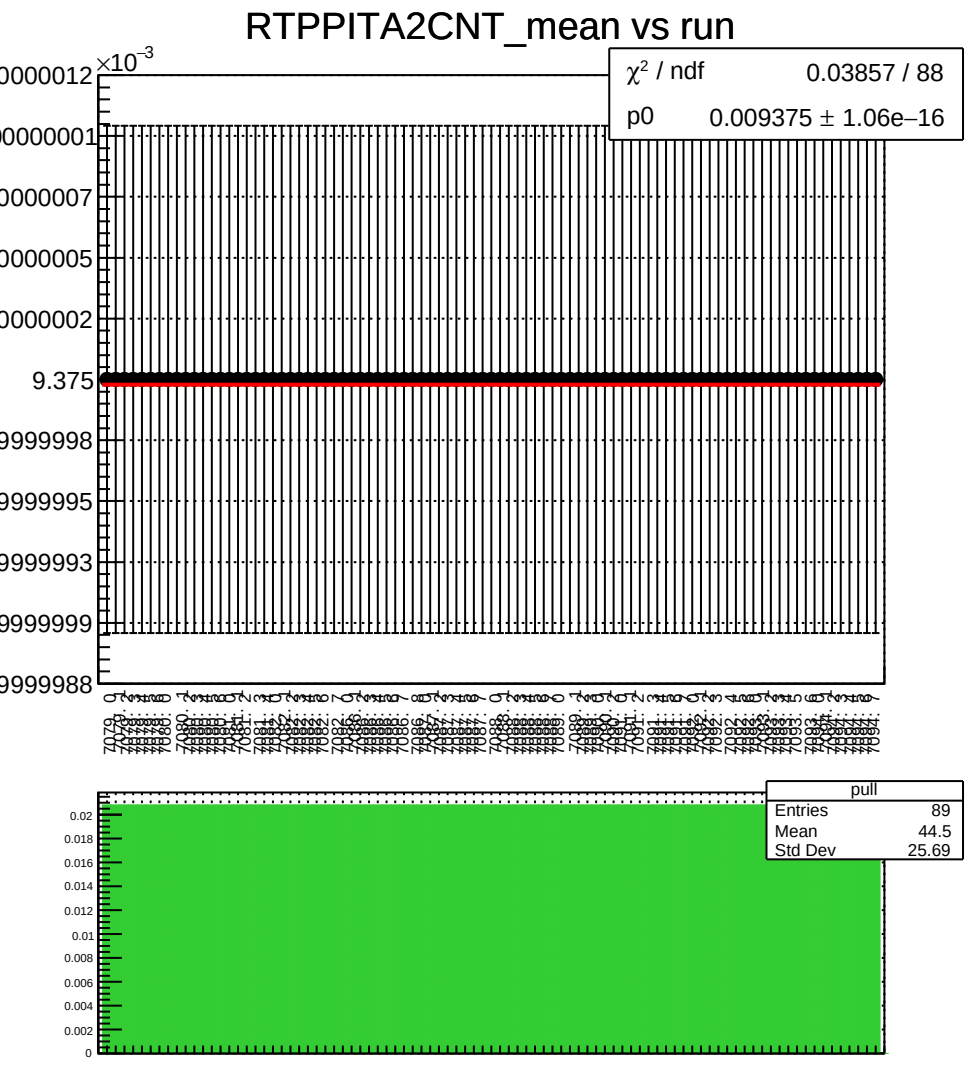

IGL1I00OD16_16_mean vs run
χ² / ndf 1123 / 88
p0 16.01± 1.06e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 89
Mean 44.5
Std Dev 25.69
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 89
Mean 3.553
Std Dev1.333e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

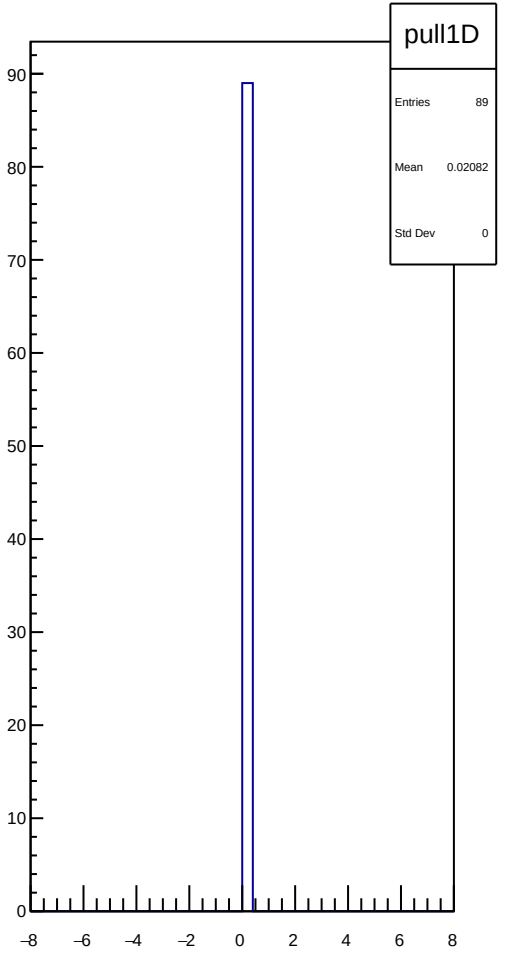

RTPAPOSUCNT_mean vs run
χ² / ndf 3.205e+27 / 88
p0 1146 ± 1.06e−16
1146.03
1146.025
1146.02
1146.015
1146.01
pull
Entries 89
Mean −7.895e+08
Std Dev 0
×10¹²
pull1D
Entries 89
Mean 0
Std Dev 0


RTPAPOSVCNT_mean vs run
χ² / ndf 4.377e+28 / 88
p0 76.02 ± 1.06e−16
76.1
76.08
76.06
76.04
76.02
76
pull
Entries 89
Mean −8.226e+08
Std Dev 0
×10¹²
80
60
40
20
0
pull1D
Entries 89
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 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69


pull1D
Entries 89
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
9.375
pull
Entries 89
Mean 44.5
Std Dev 25.69


pull1D
Entries 89
Mean 0.02082
Std Dev 0