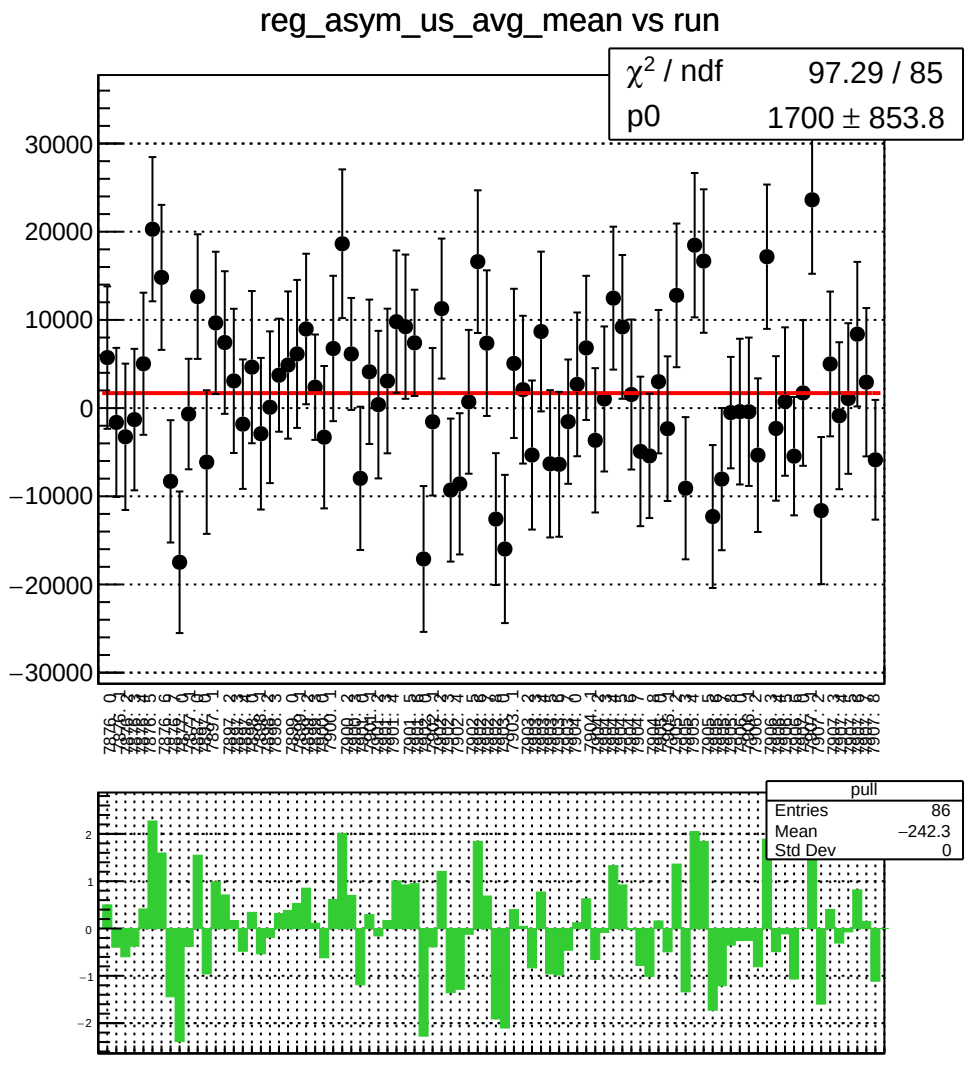
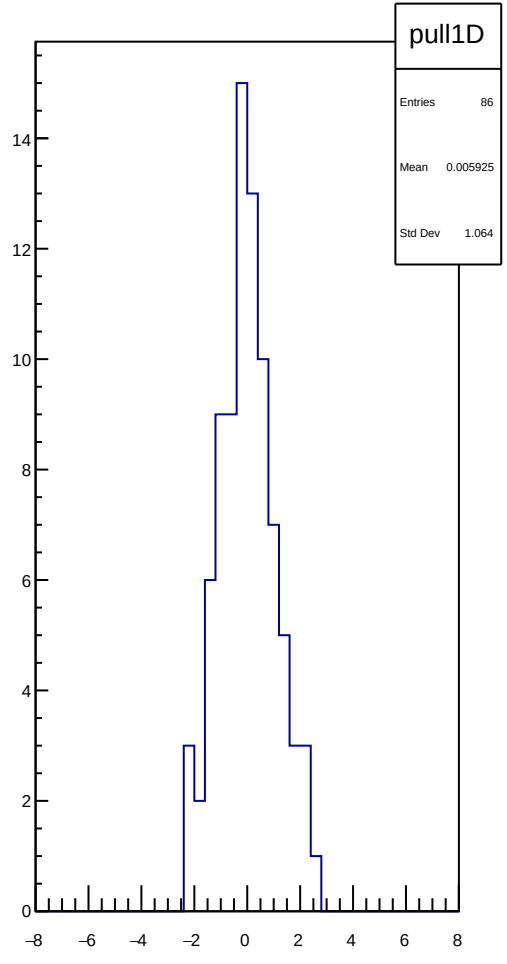
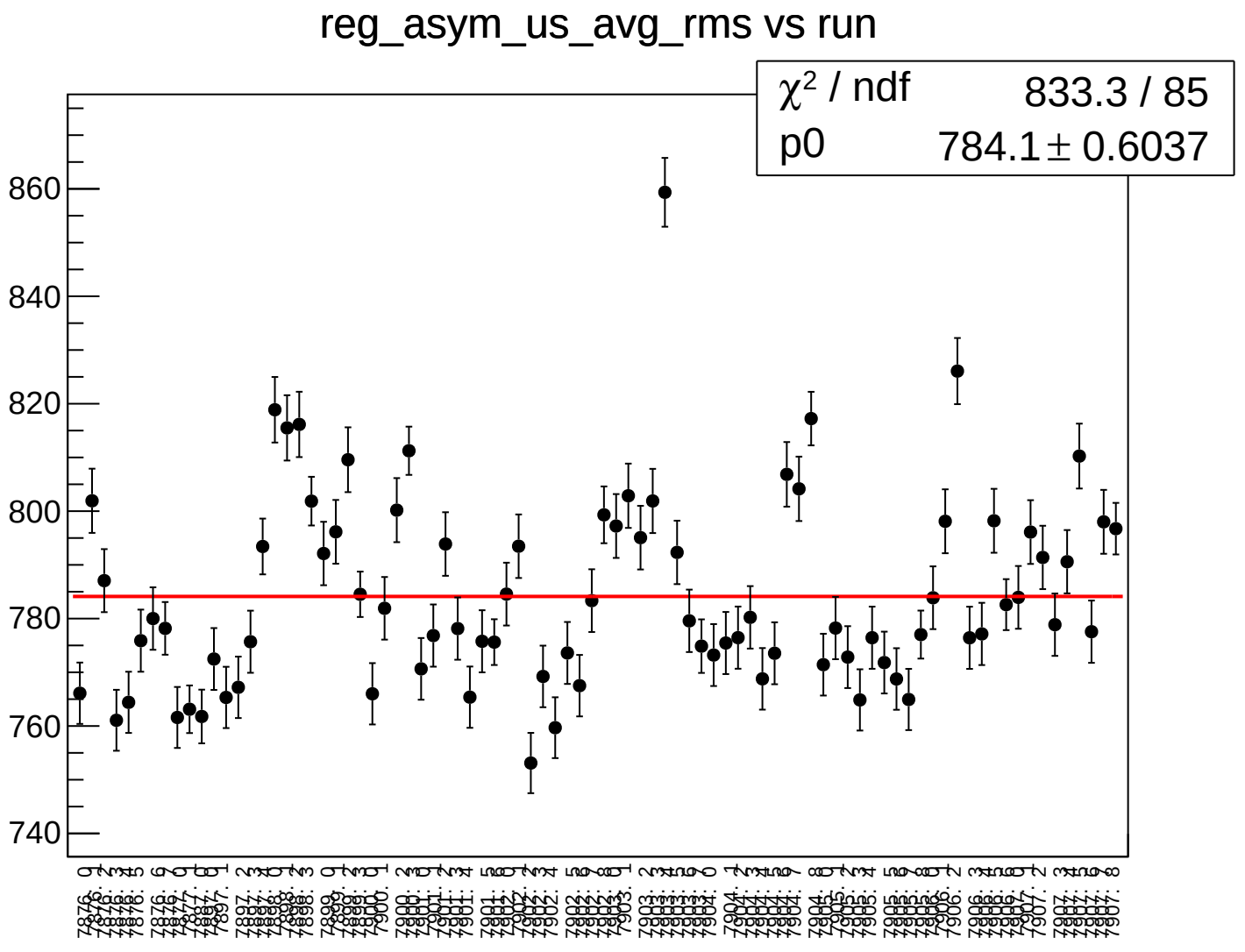
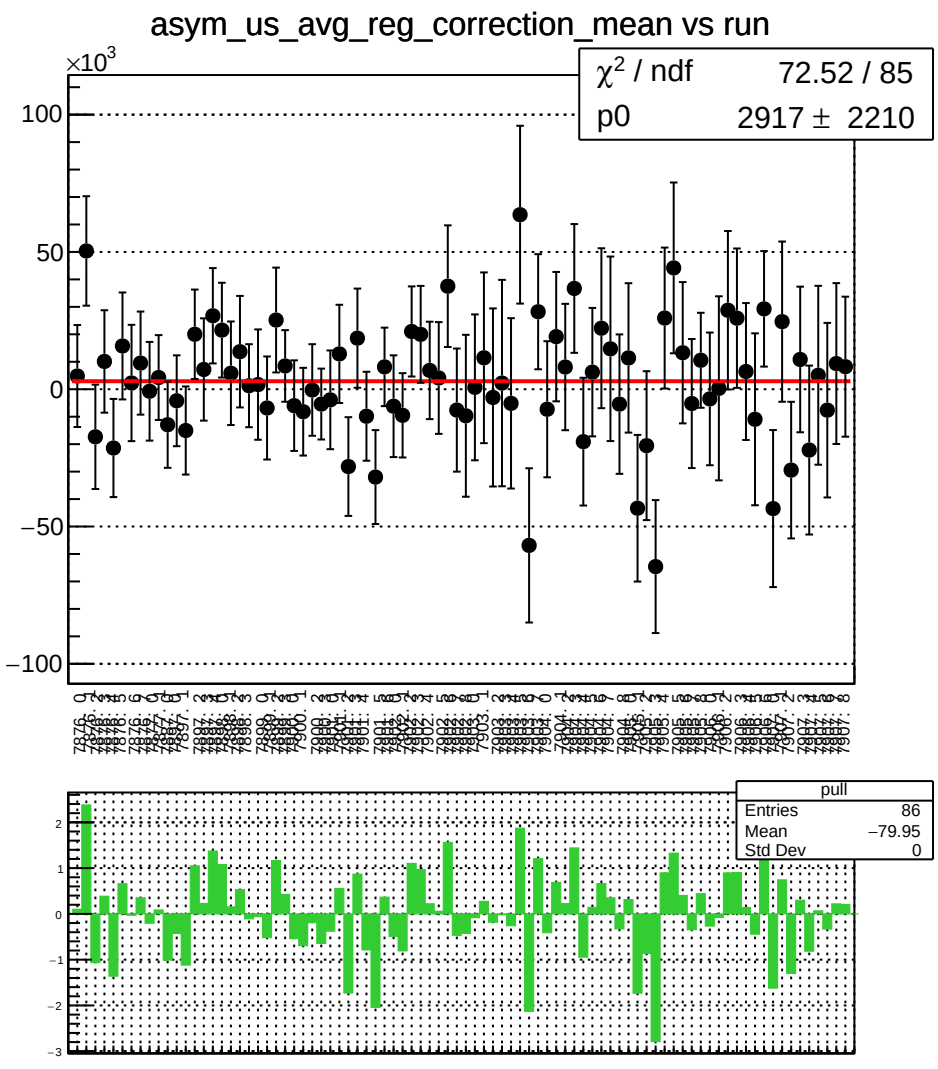
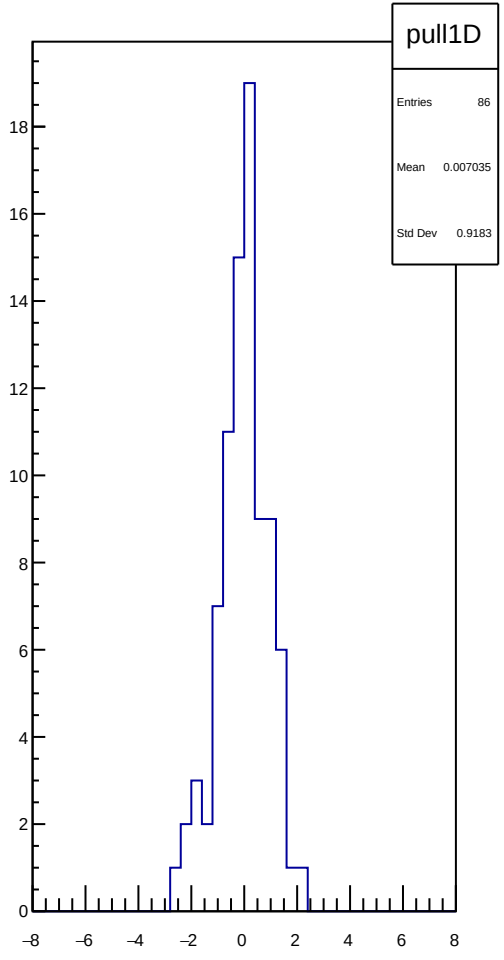

reg_asym_us_avg_mean vs run
χ² / ndf 97.29 / 85
p0 1700 ± 853.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −242.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.005925
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_rms vs run
χ² / ndf 833.3 / 85
p0 784.1 ± 0.6037
860
840
820
800
780
760
740


asym_us_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.52 / 85
p0 2917 ± 2210
100
50
0
−50
−100
pull
Entries 86
Mean −79.95
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.007035
Std Dev 0.9183
18
16
14
12
10
8
6
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2
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−8
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−4
−2
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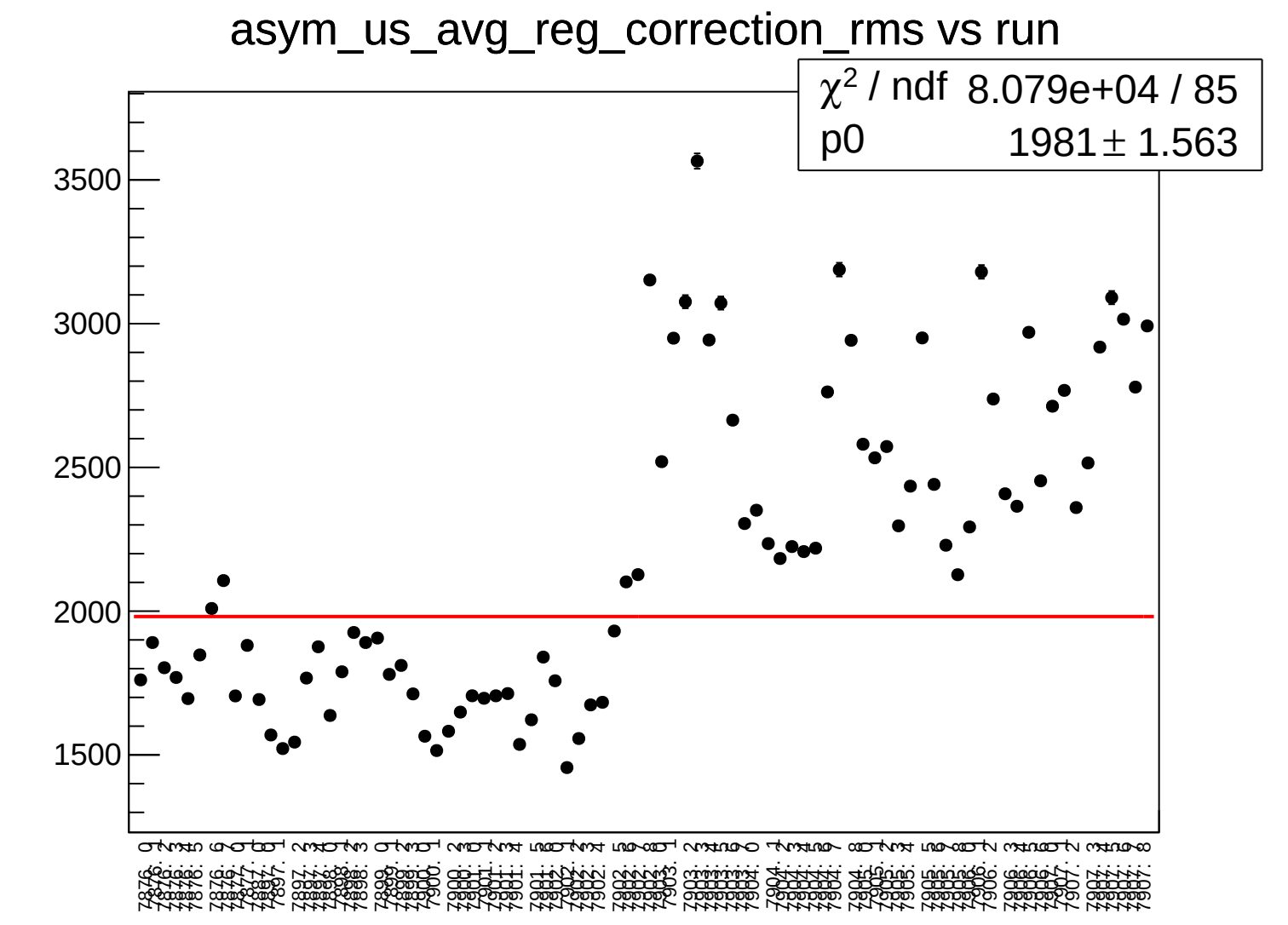
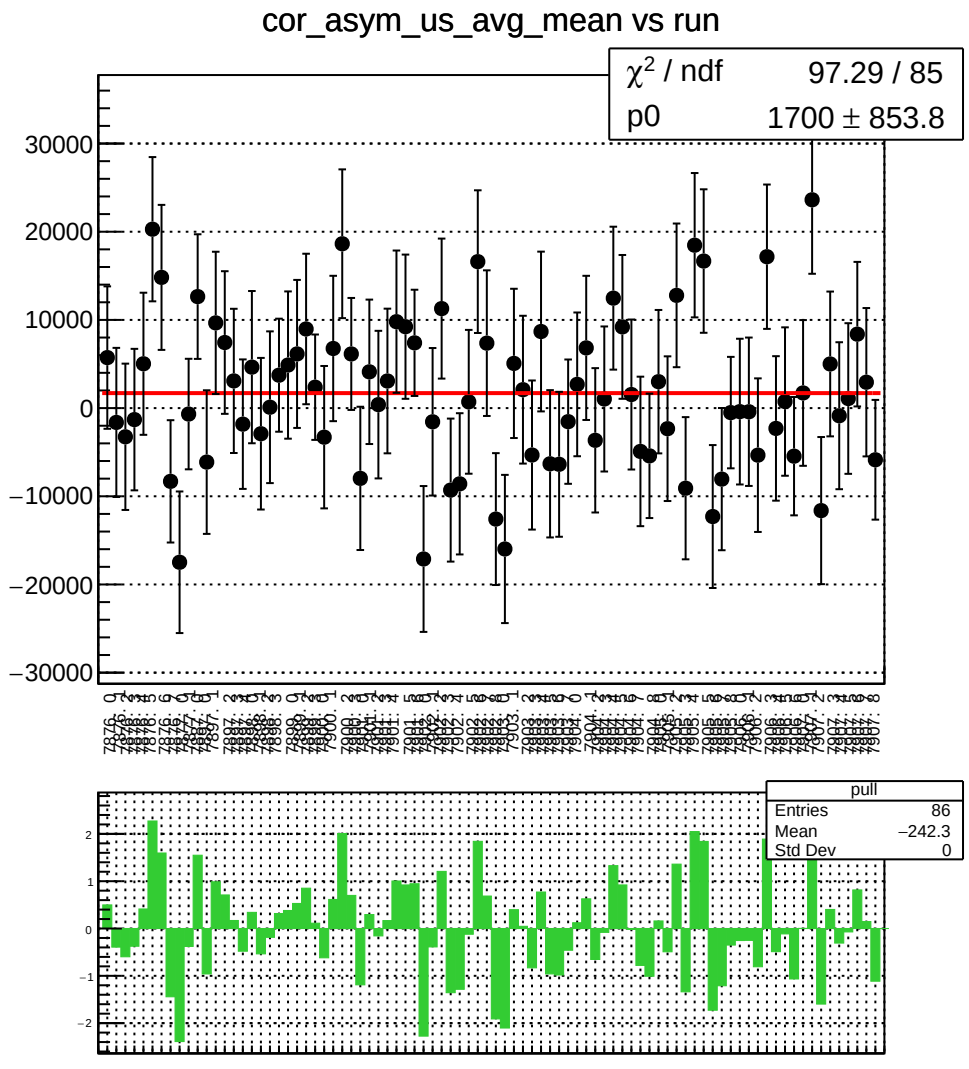
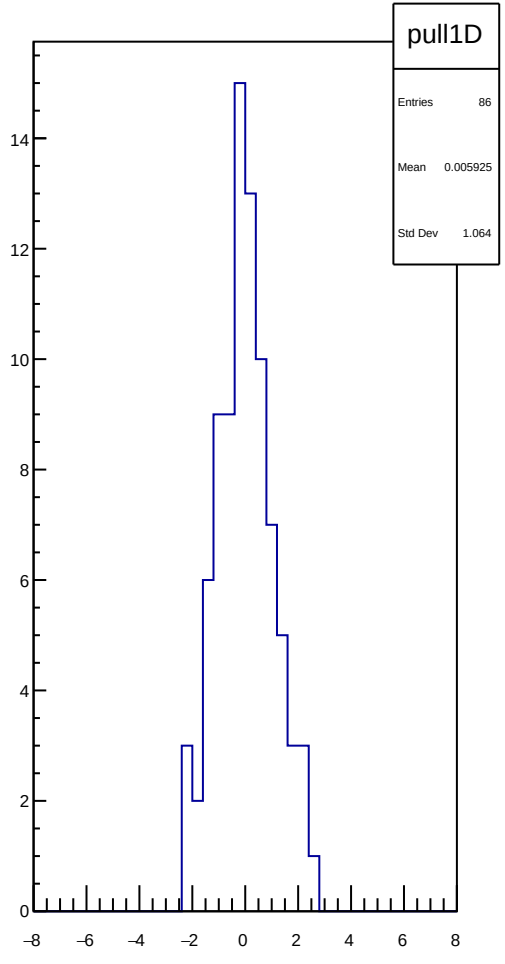
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ^2 / ndf 8.079e+04 / 85
p0 1981 ± 1.563
3500
3000
2500
2000
1500


cor_asym_us_avg_mean vs run
χ² / ndf 97.29 / 85
p0 1700 ± 853.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −242.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.005925
Std Dev 1.064
14
12
10
8
6
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−4
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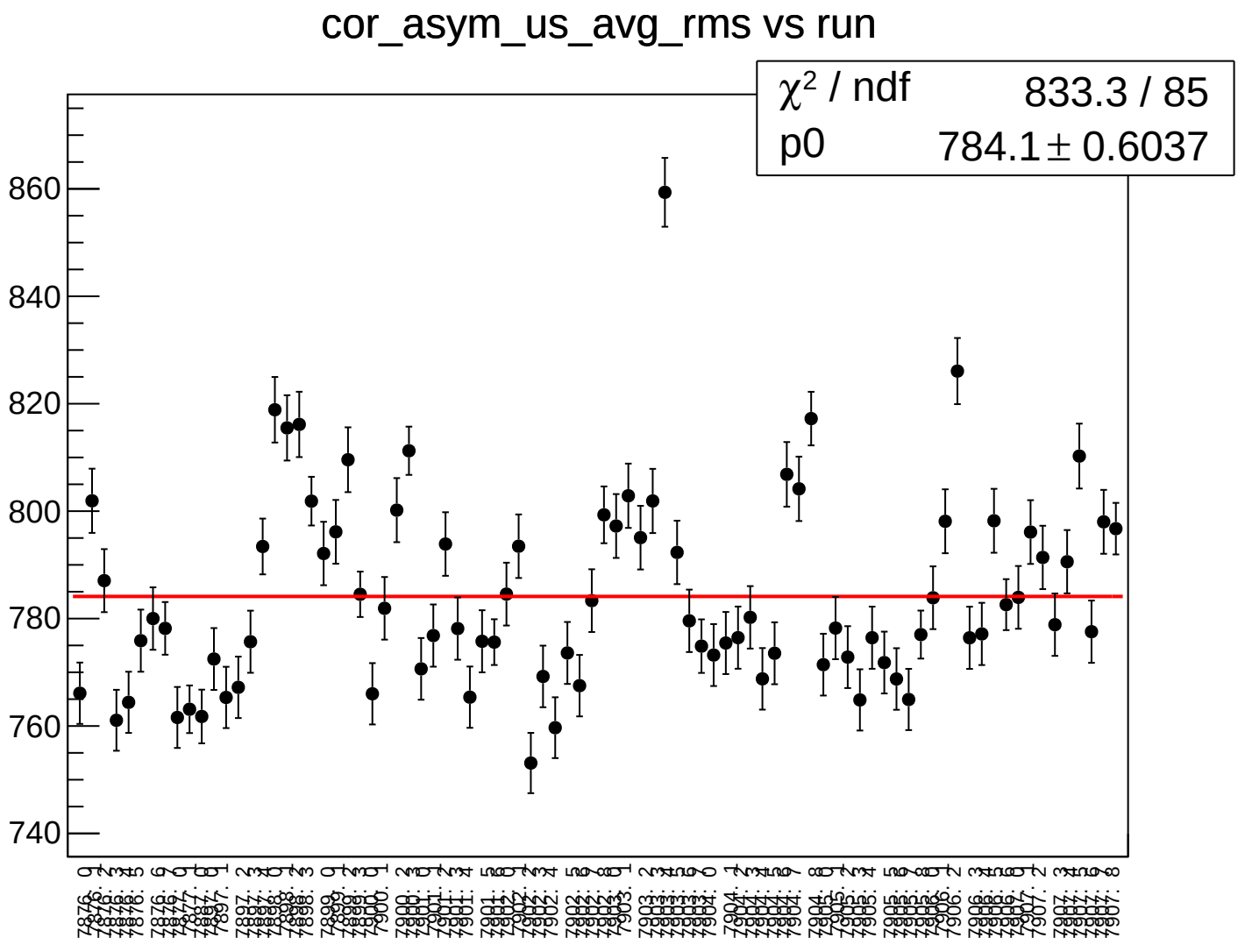
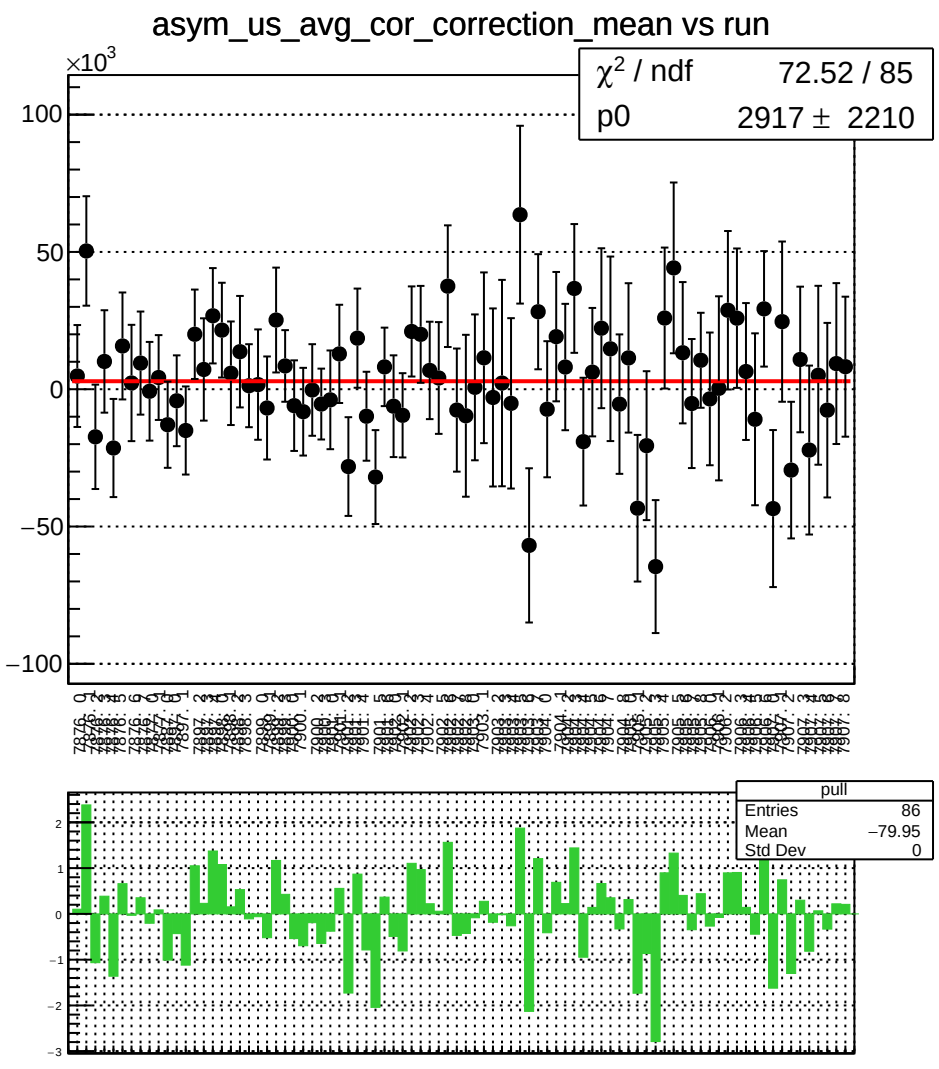
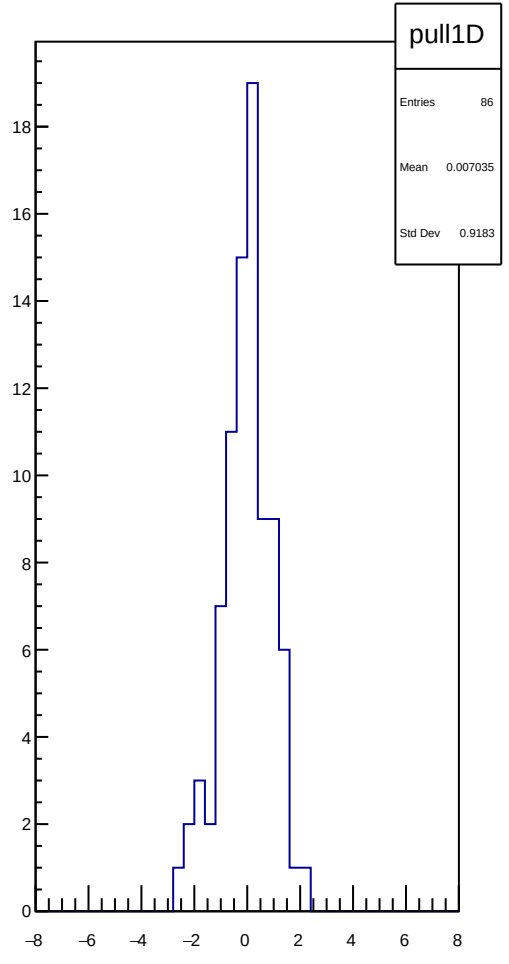
2
4
6
8


cor_asym_us_avg_rms vs run
χ² / ndf 833.3 / 85
p0 784.1 ± 0.6037
860
840
820
800
780
760
740


asym_us_avg_cor_correction_mean vs run
×10^3
χ² / ndf 72.52 / 85
p0 2917 ± 2210
100
50
0
−50
−100
pull
Entries 86
Mean −79.95
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.007035
Std Dev 0.9183
18
16
14
12
10
8
6
4
2
0
−8
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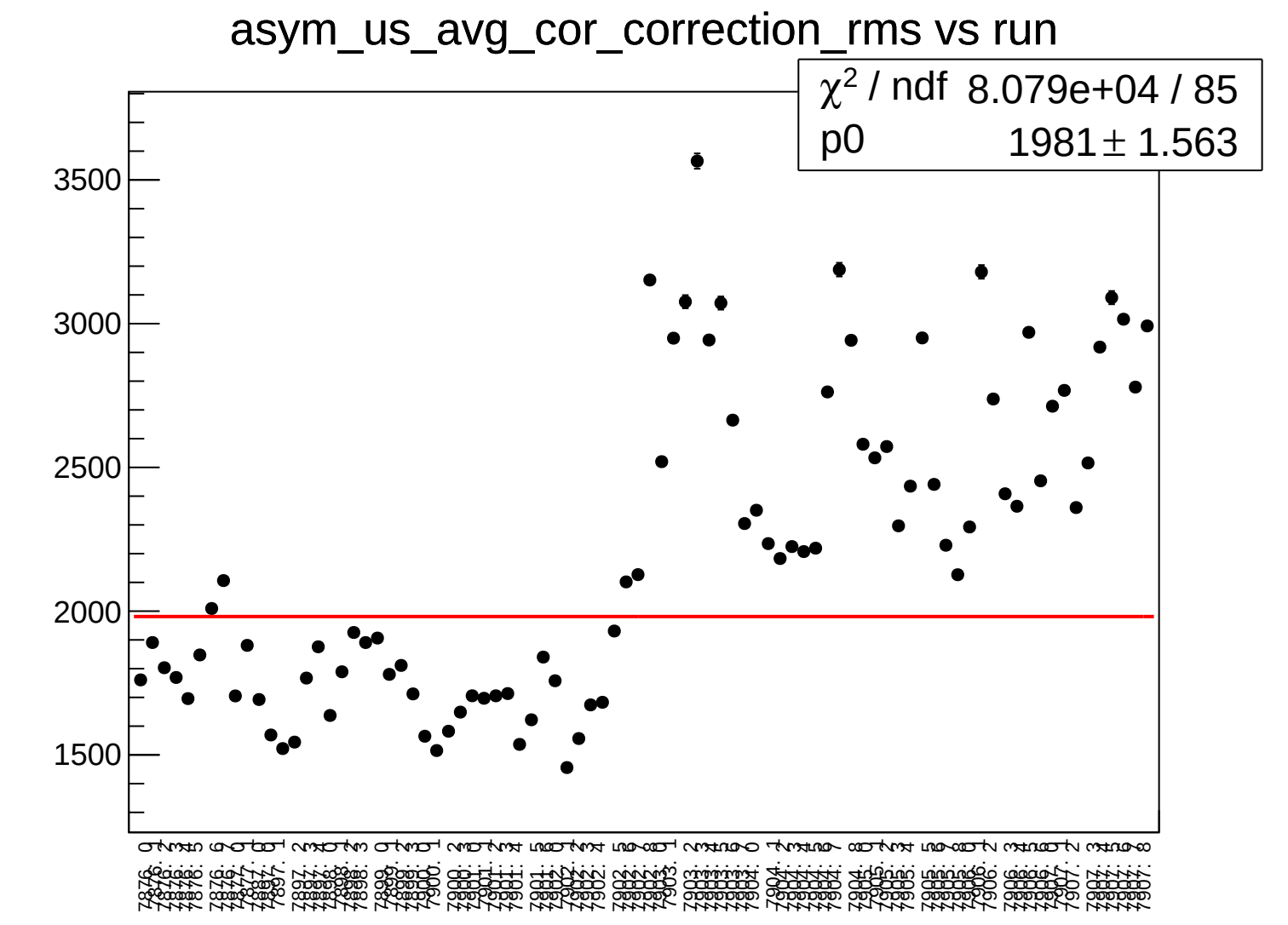
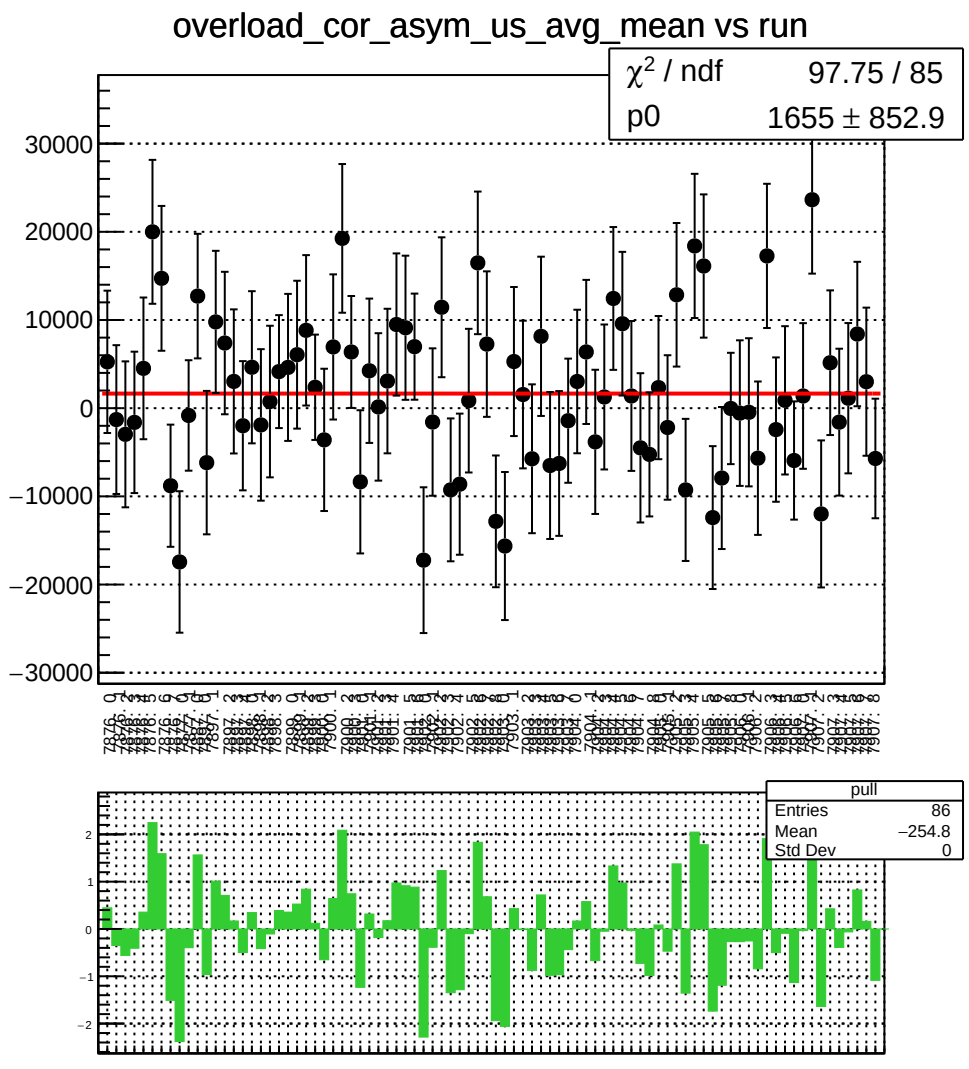
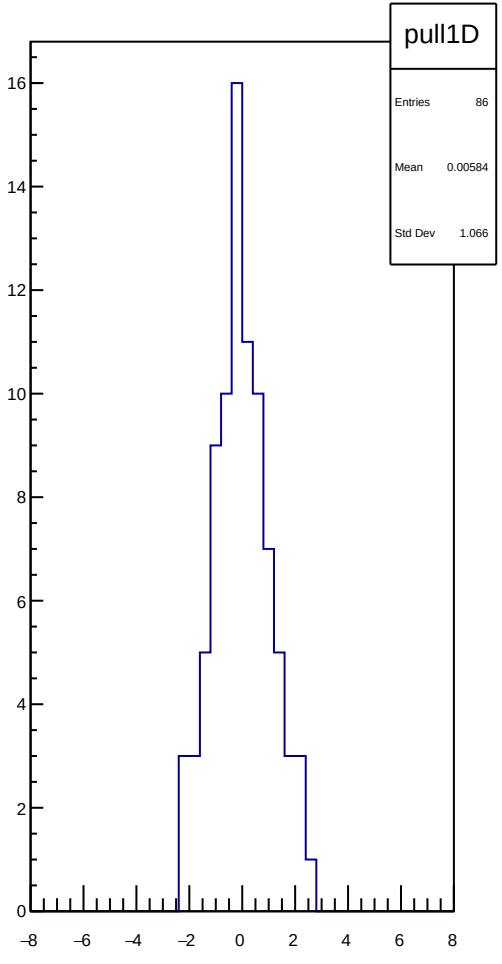
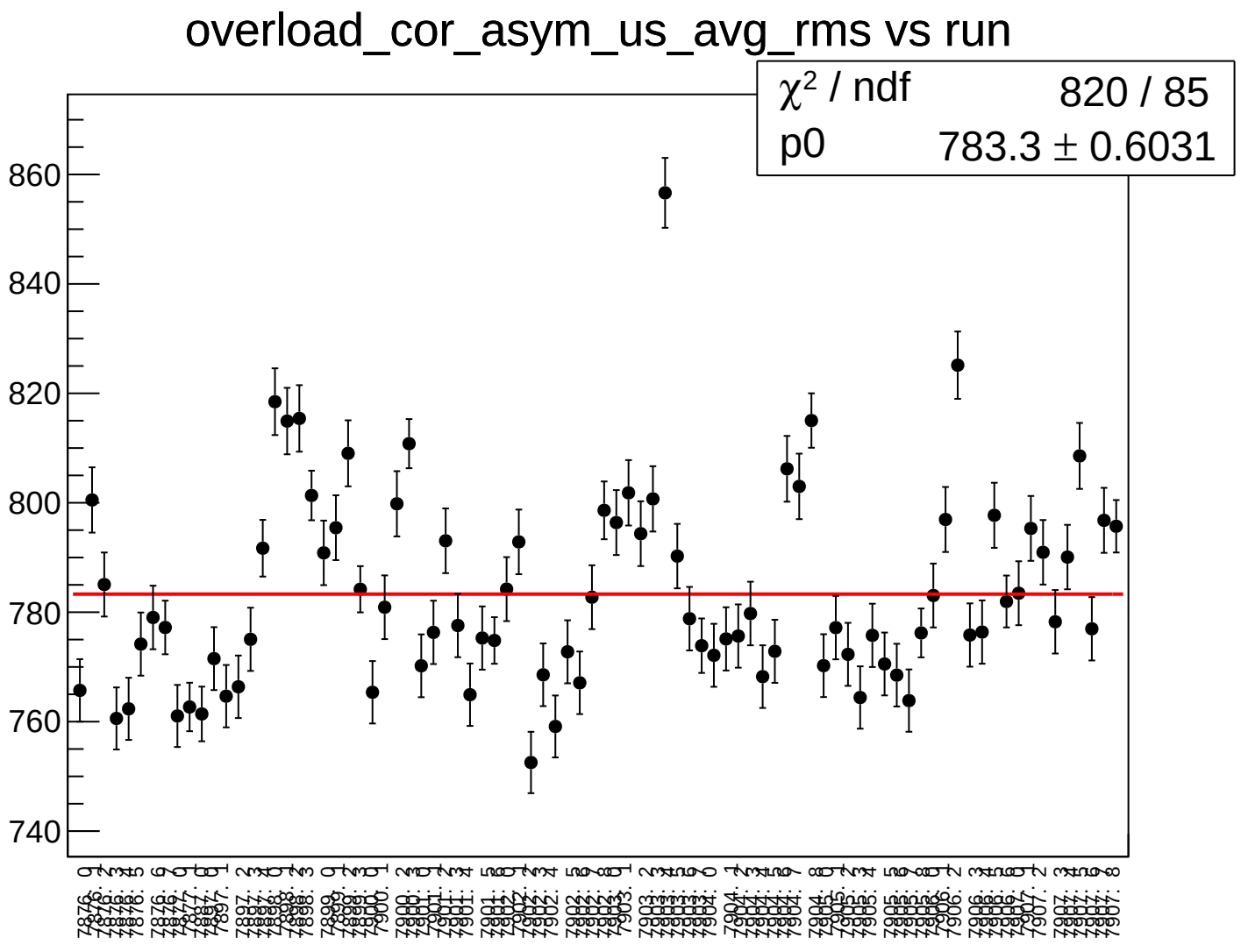
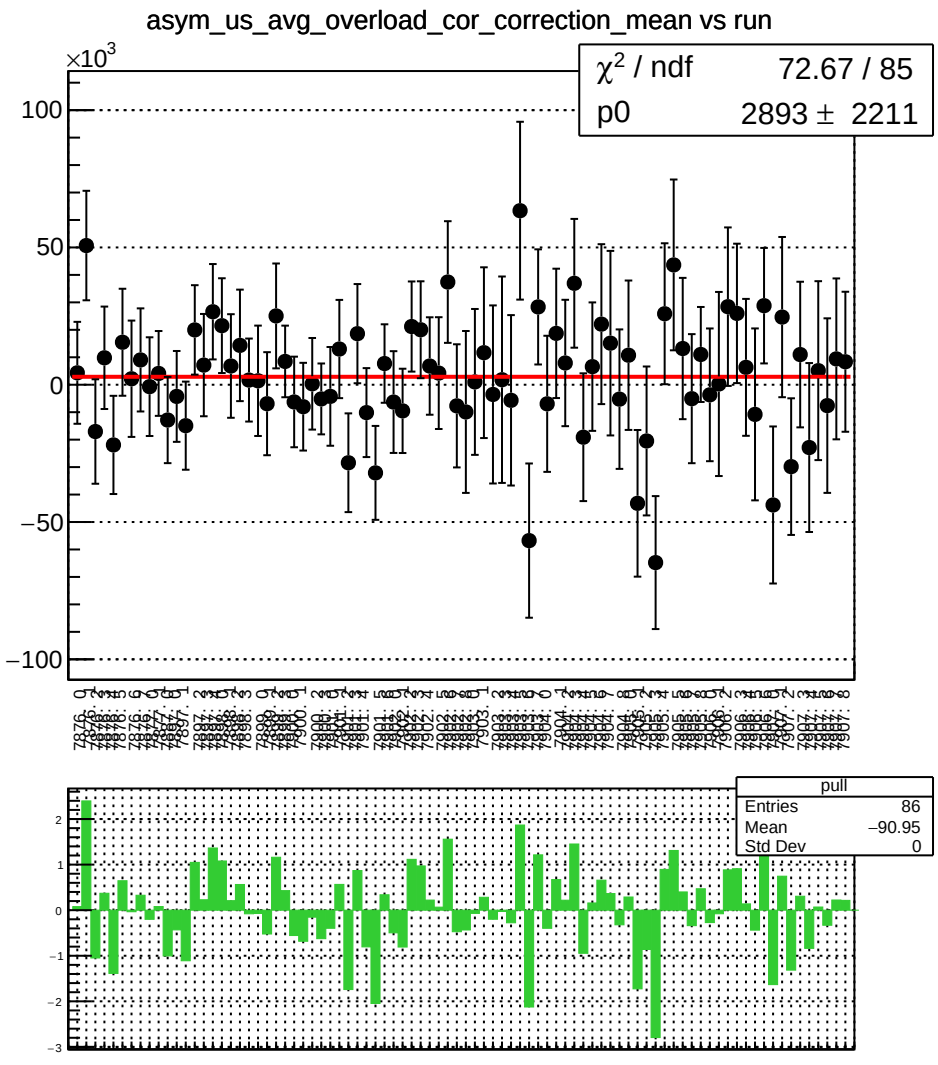
2
4
6
8

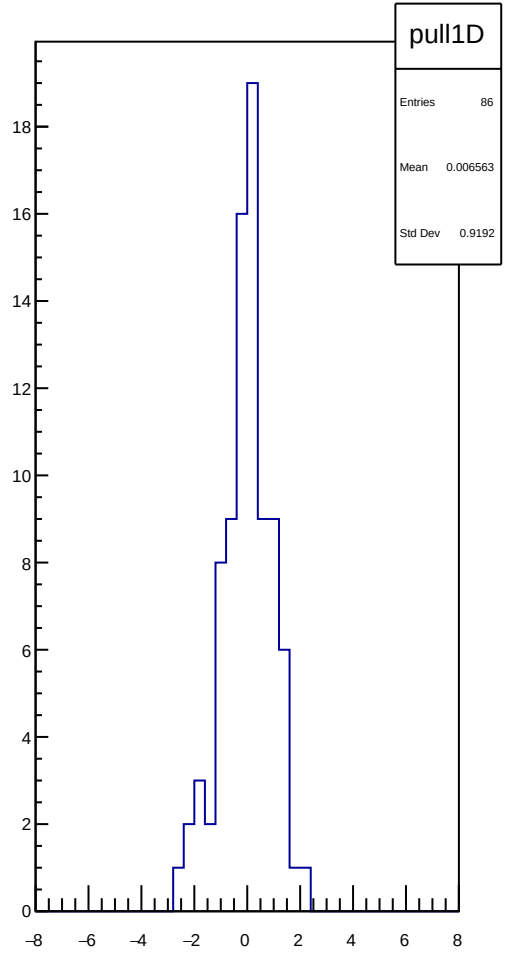

asym_us_avg_cor_correction_rms vs run
χ^2 / ndf 8.079e+04 / 85
p0 1981 ± 1.563
3500
3000
2500
2000
1500


overload_cor_asym_us_avg_mean vs run
χ² / ndf 97.75 / 85
p0 1655 ± 852.9
pull
Entries 86
Mean −254.8
Std Dev 0


pull1D
Entries 86
Mean 0.00584
Std Dev 1.066


overload_cor_asym_us_avg_rms vs run
χ² / ndf 820 / 85
p0 783.3 ± 0.6031
860
840
820
800
780
760
740


asym_us_avg_overload_cor_correction_mean vs run
×10^3
χ² / ndf 72.67 / 85
p0 2893 ± 2211
100
50
0
−50
−100
pull
Entries 86
Mean −90.95
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.006563
Std Dev 0.9192
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6
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−8
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−4
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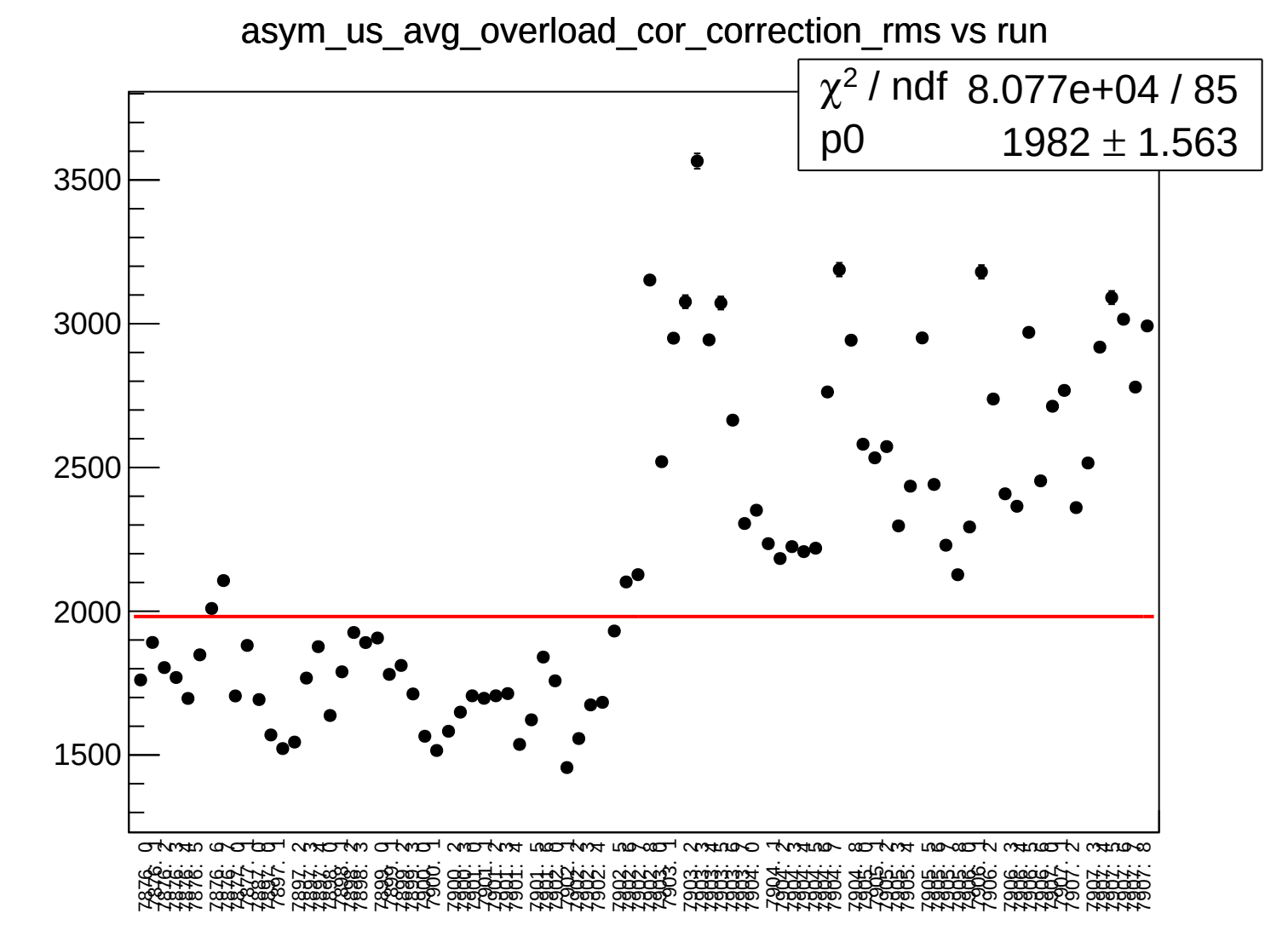
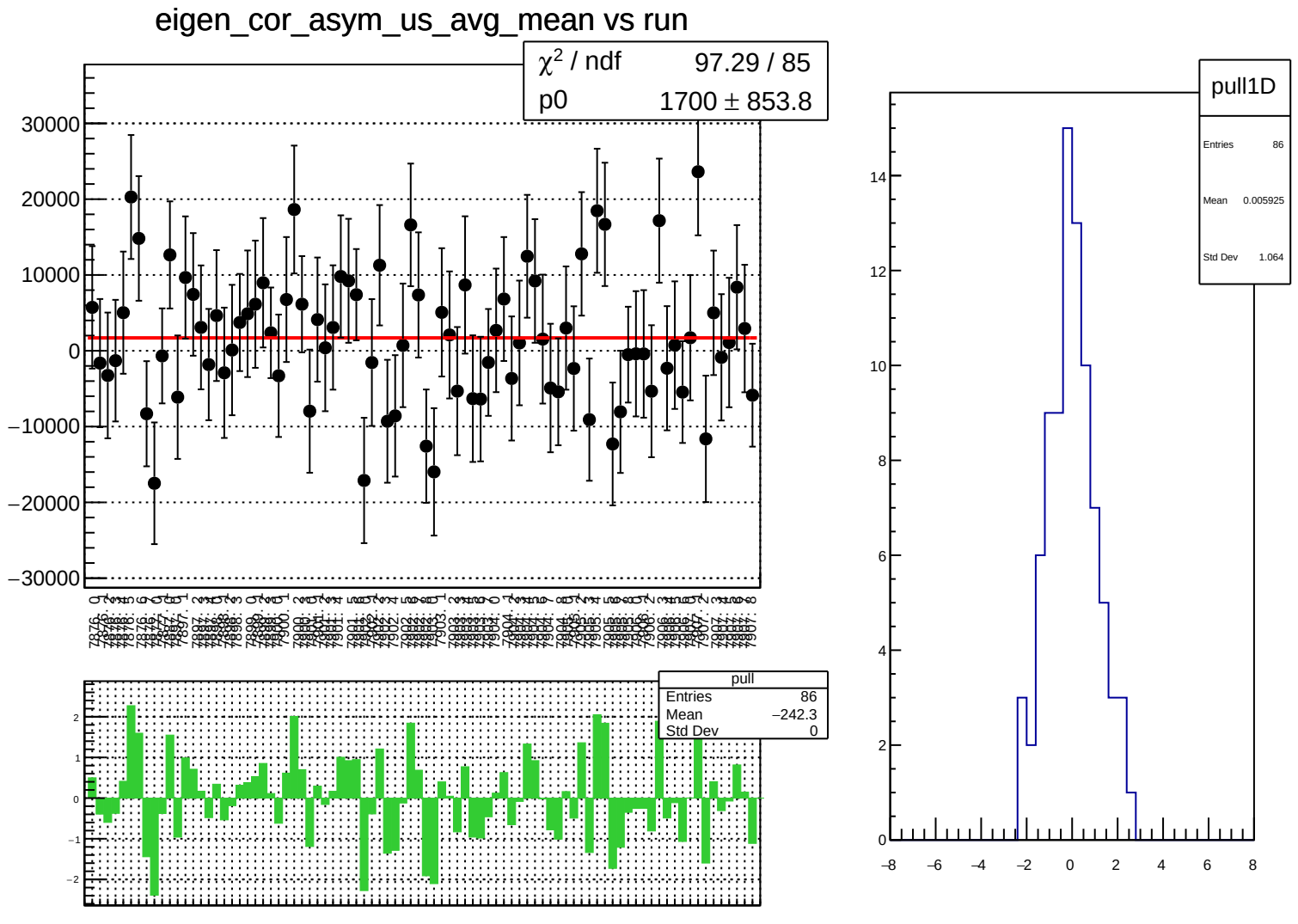
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ^2 / ndf 8.077e+04 / 85
p0 1982 ± 1.563
3500
3000
2500
2000
1500


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 97.29 / 85
p0 1700 ± 853.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −242.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.005925
Std Dev 1.064
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10
8
6
4
2
0
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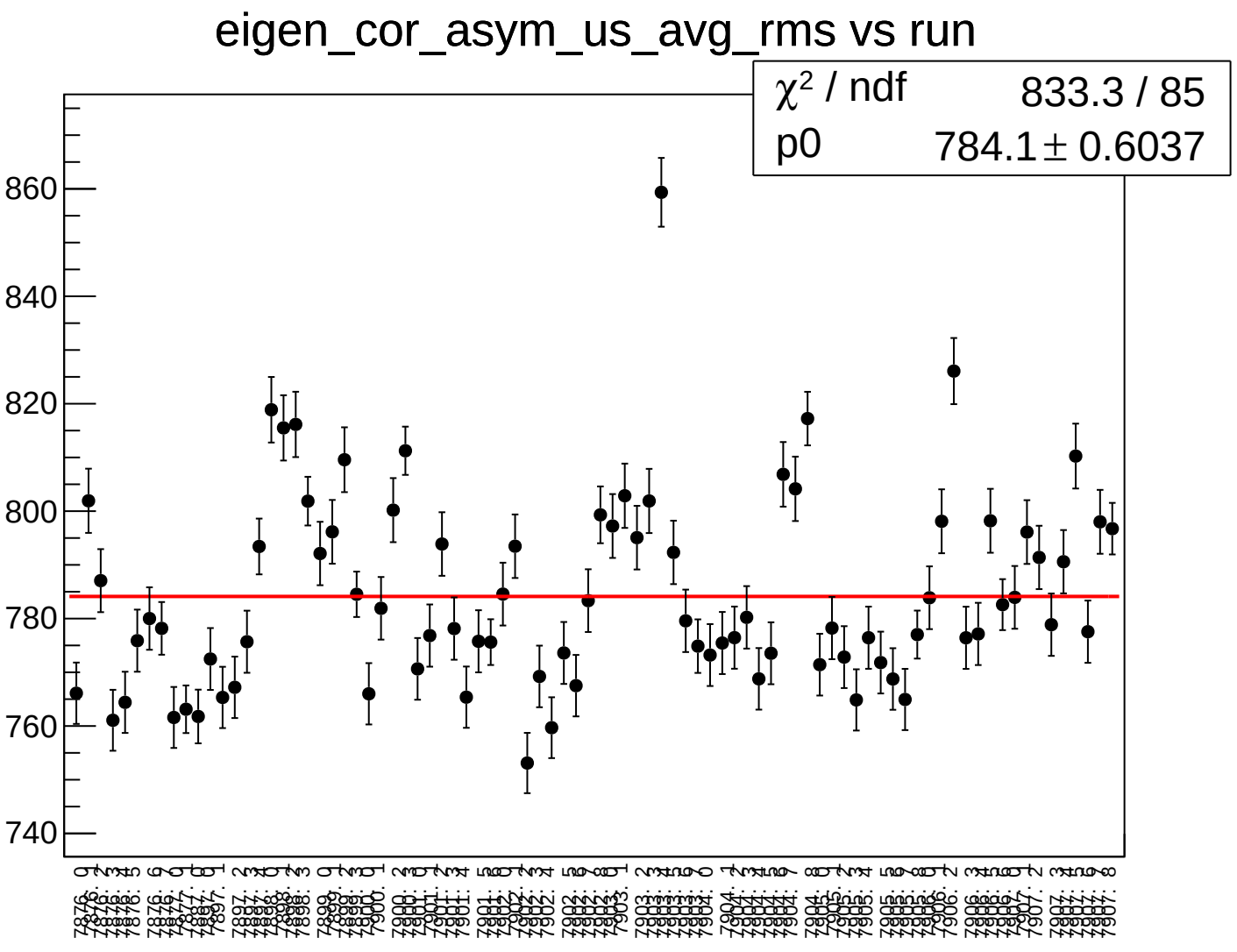
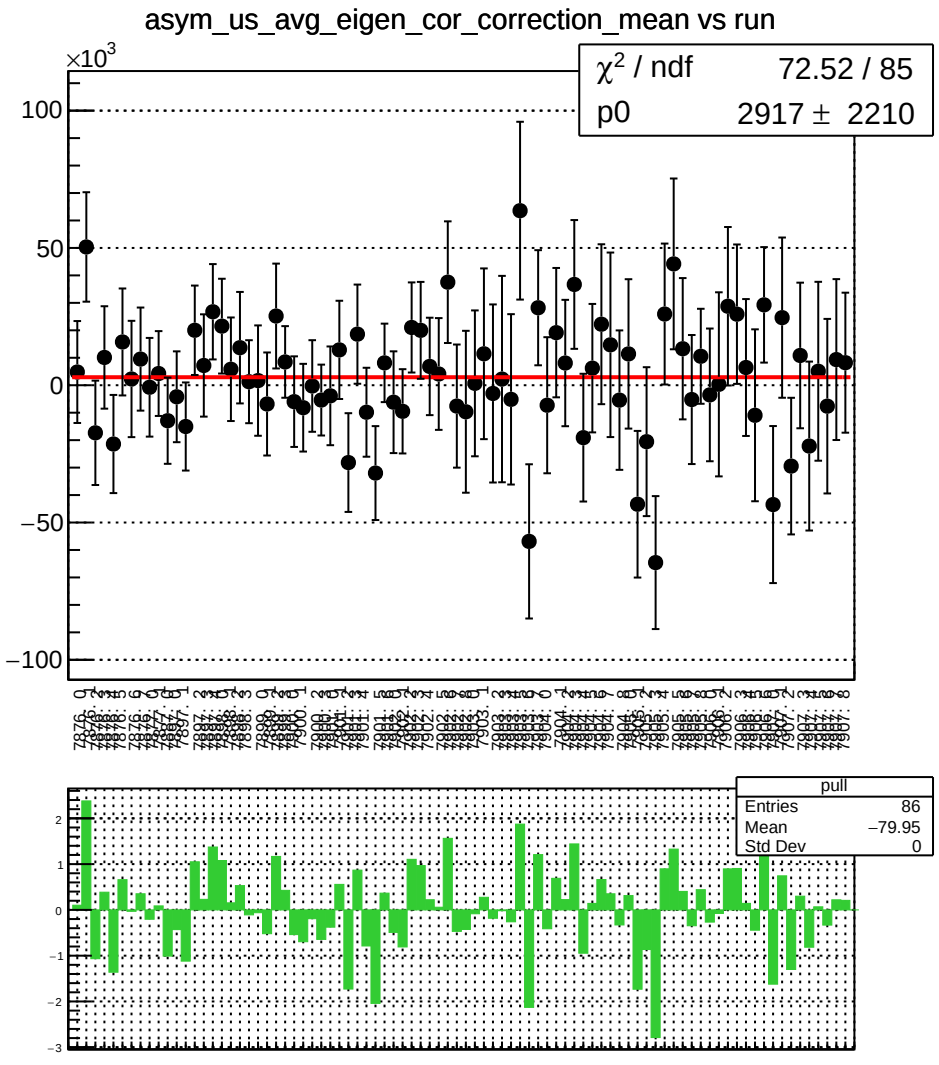
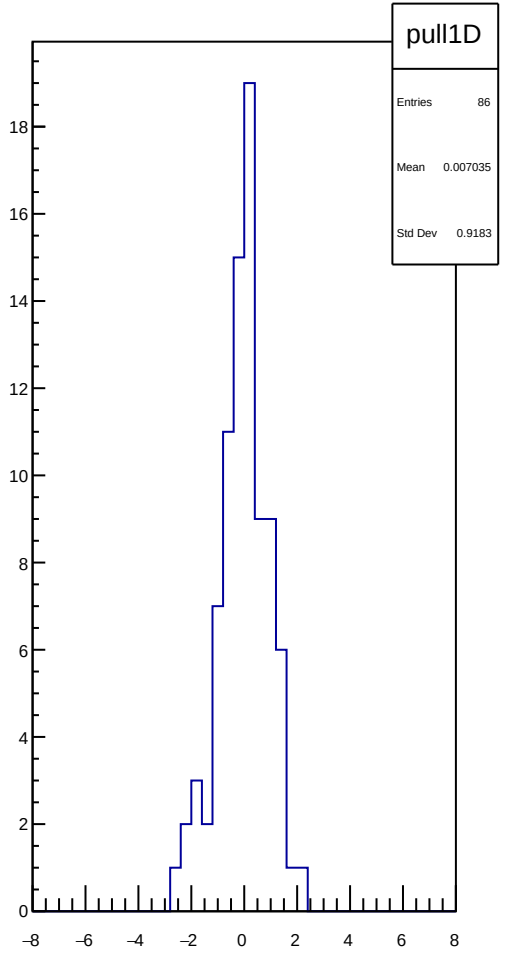
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_rms vs run
χ² / ndf 833.3 / 85
p0 784.1 ± 0.6037
860
840
820
800
780
760
740


asym_us_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.52 / 85
p0 2917 ± 2210
100
50
0
−50
−100
pull
Entries 86
Mean −79.95
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.007035
Std Dev 0.9183
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16
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6
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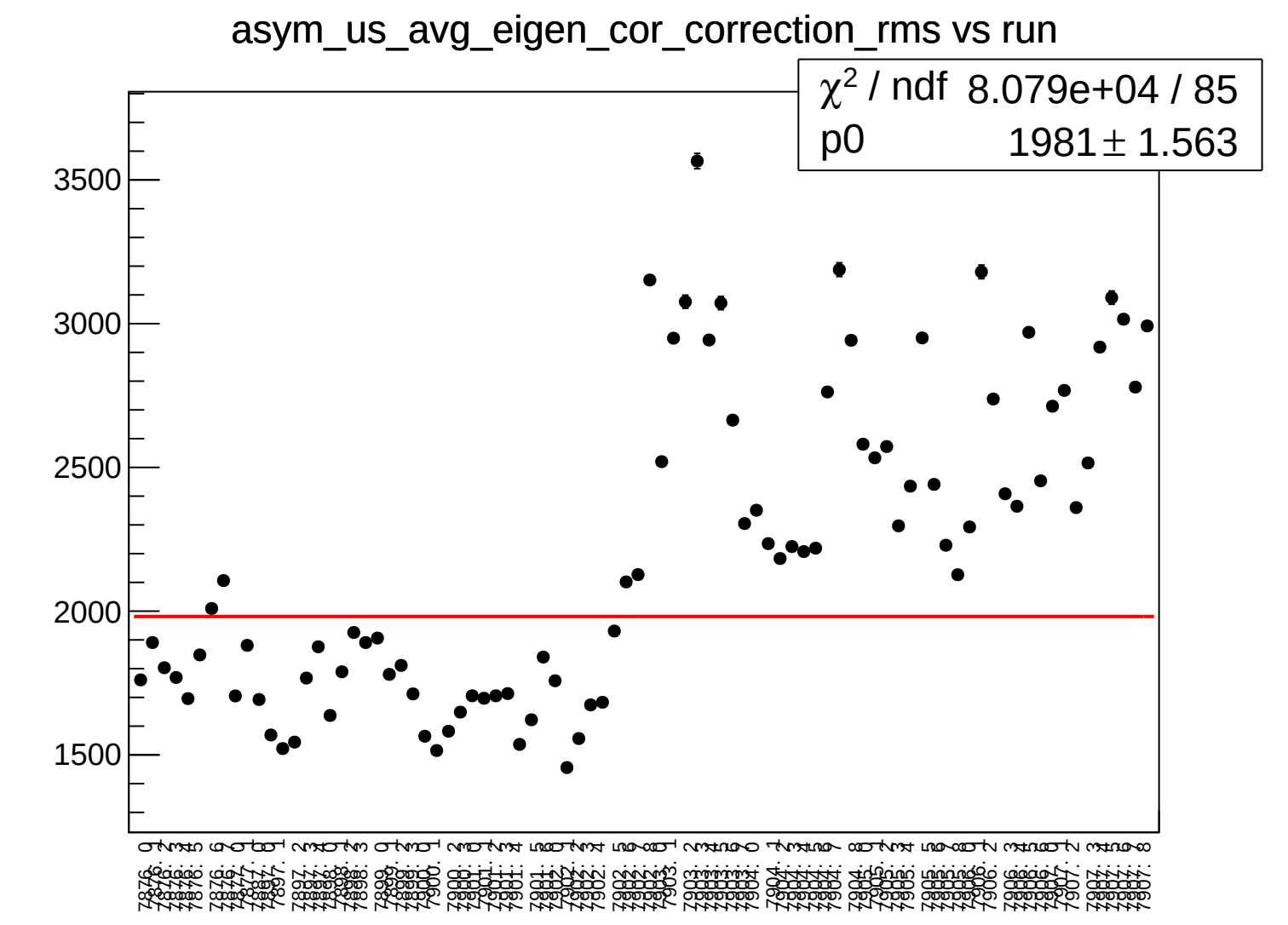
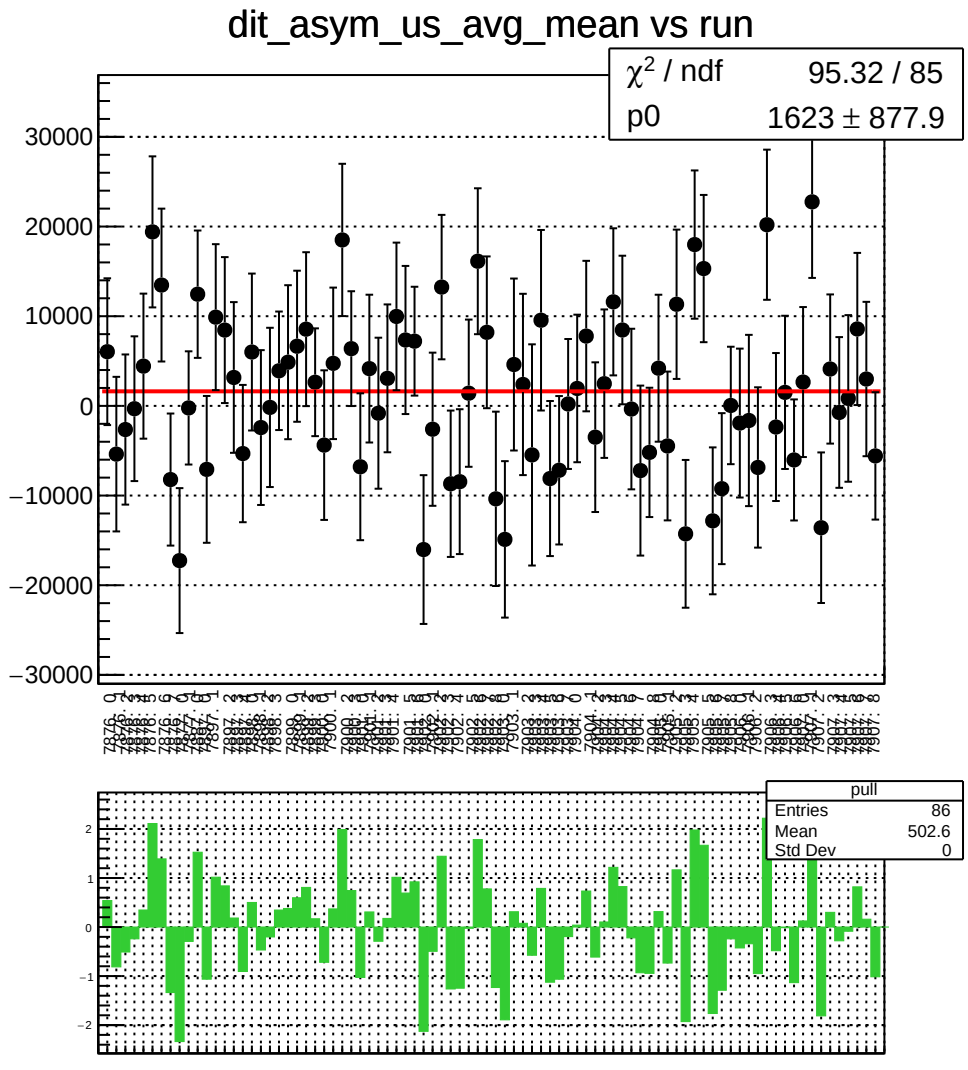
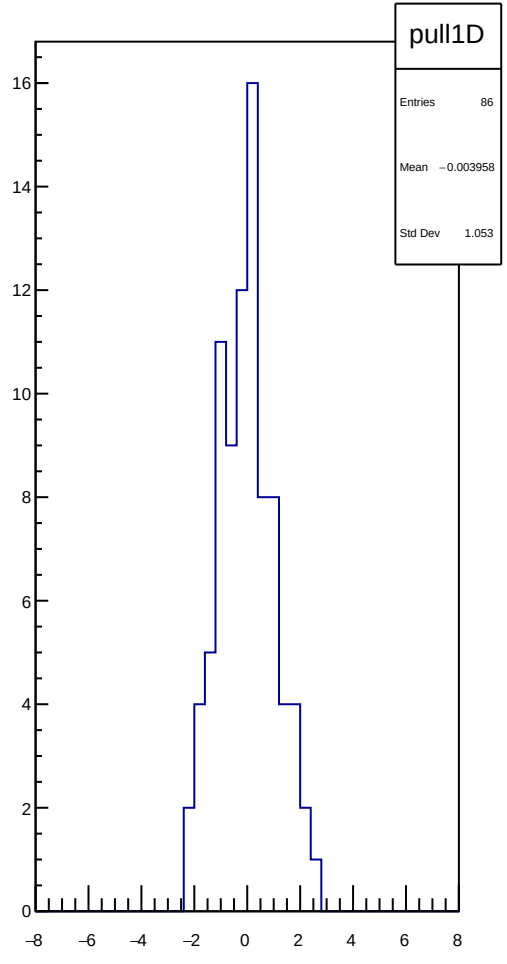

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 8.079e+04 / 85
p0 1981 ± 1.563
3500
3000
2500
2000
1500


dit_asym_us_avg_mean vs run
χ² / ndf 95.32 / 85
p0 1623 ± 877.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 502.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.003958
Std Dev 1.053
16
14
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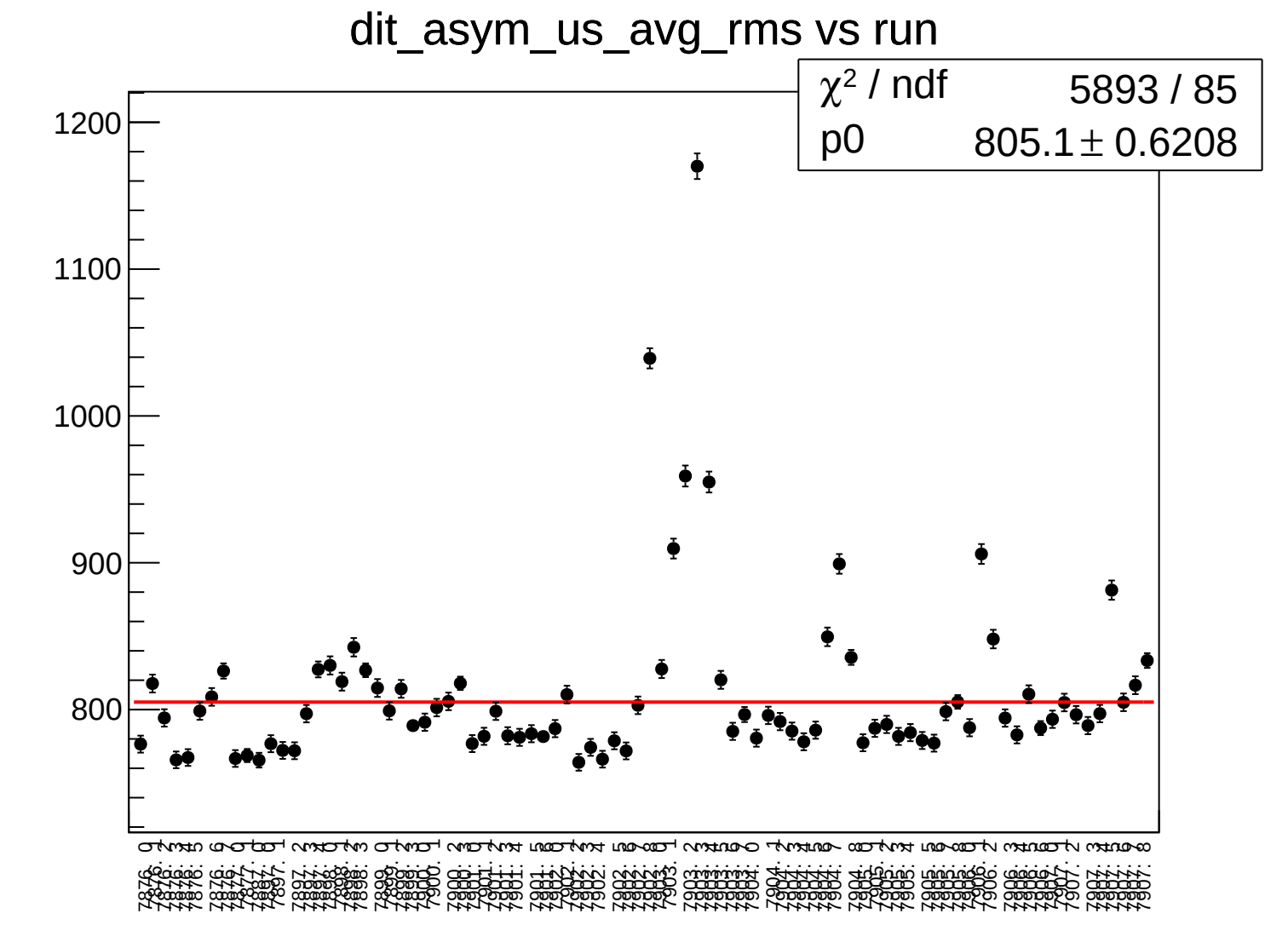
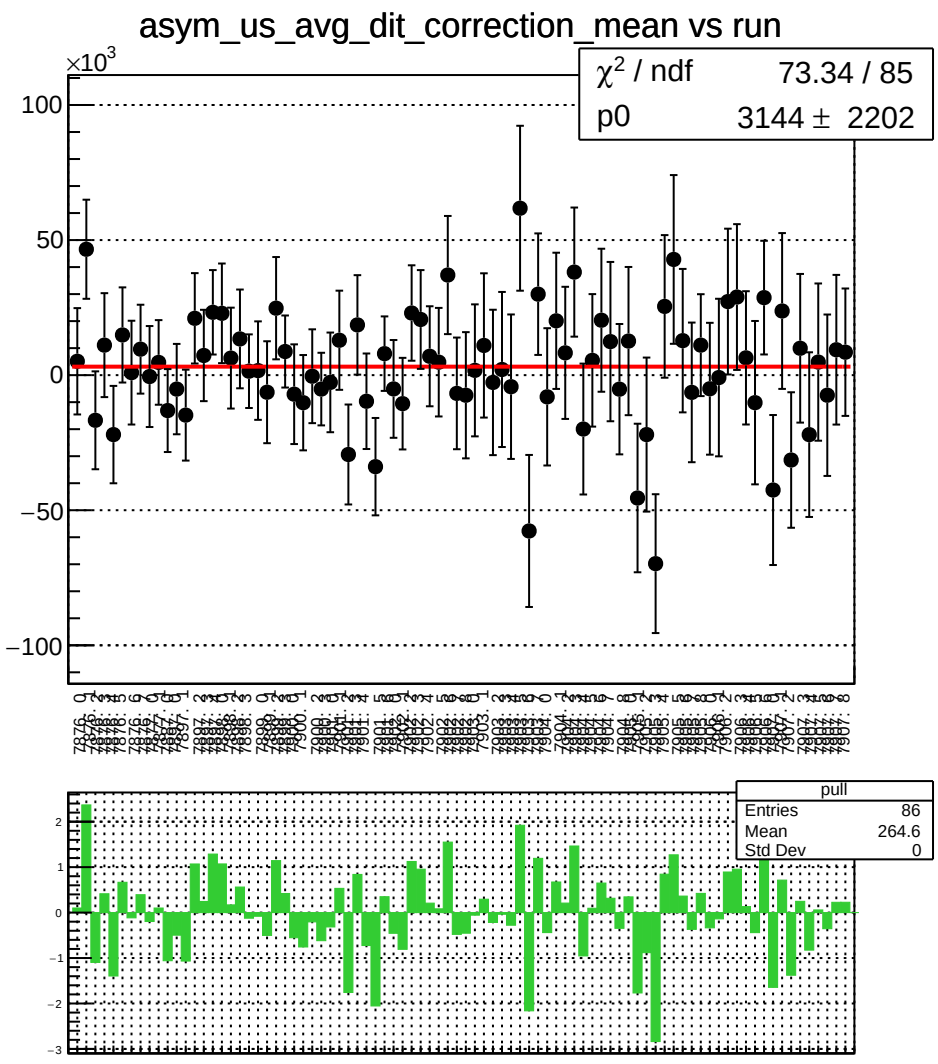
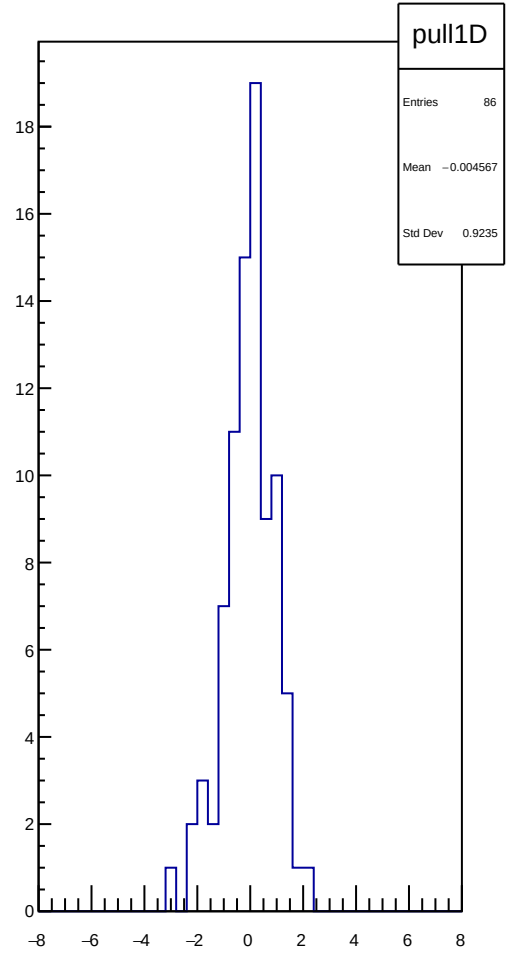
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_rms vs run
χ² / ndf 5893 / 85
p0 805.1 ± 0.6208
1200
1100
1000
900
800


asym_us_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.34 / 85
p0 3144 ± 2202
100
50
0
−50
−100
pull
Entries 86
Mean 264.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.004567
Std Dev 0.9235
18
16
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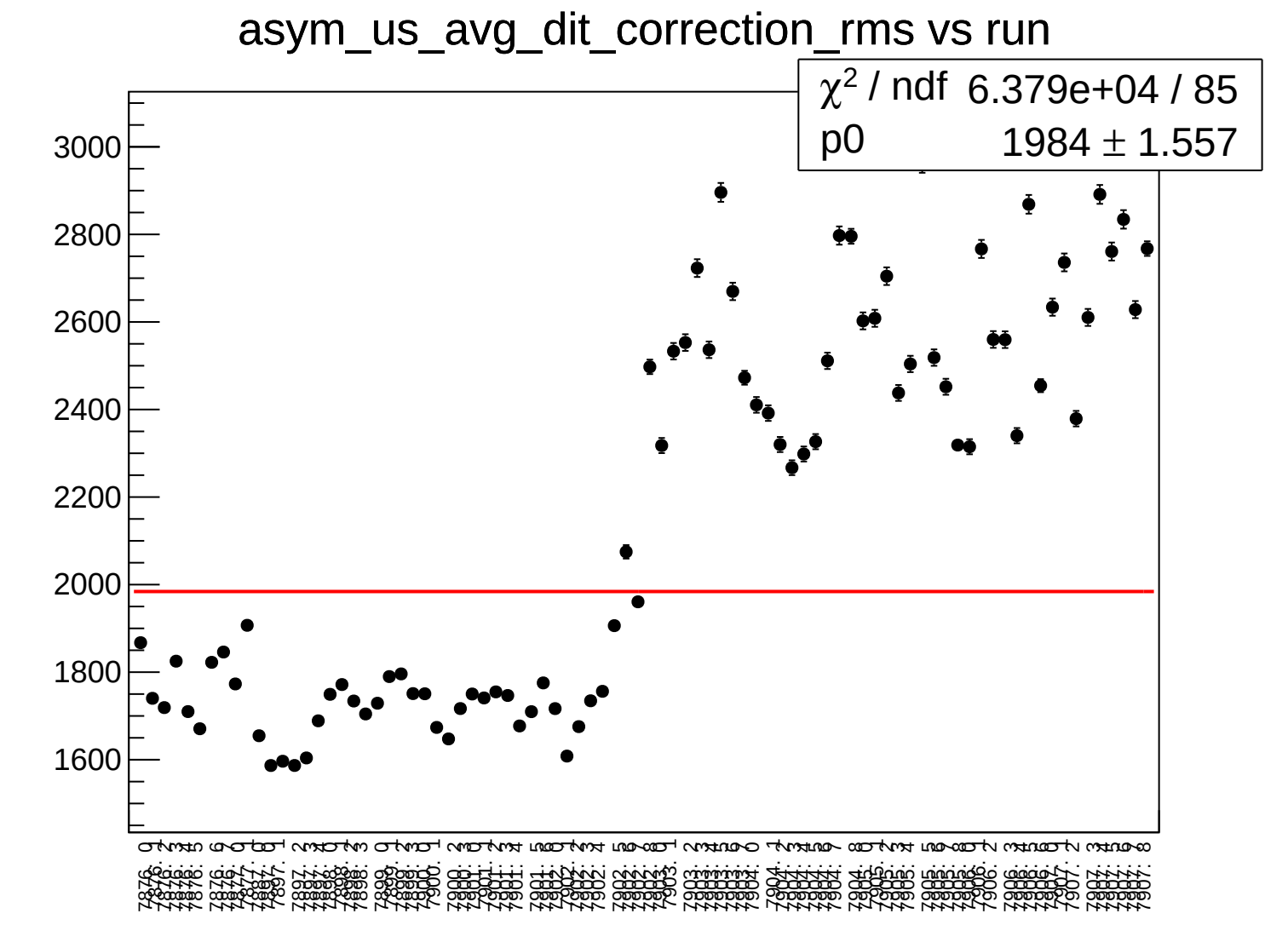
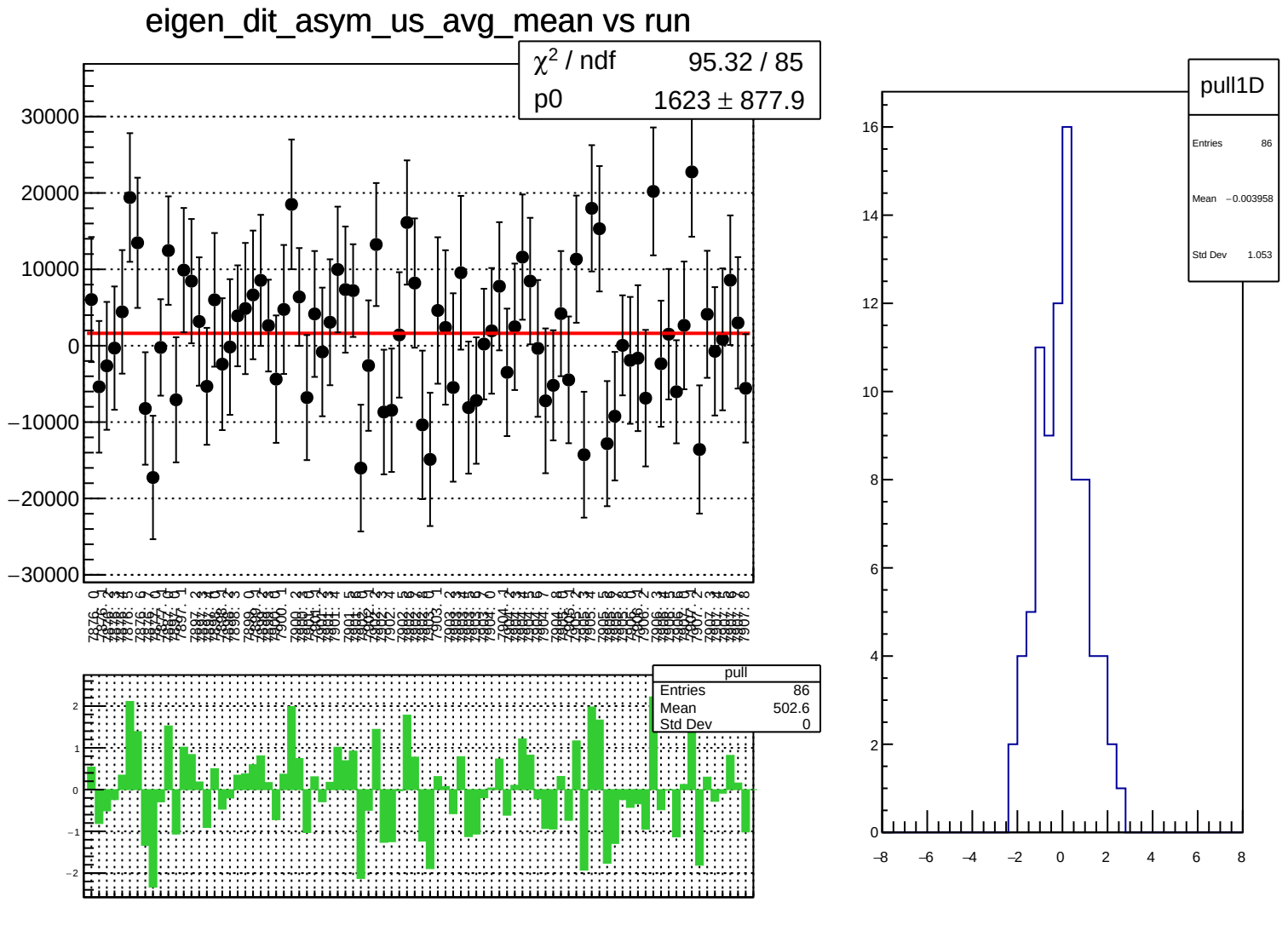
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_dit_correction_rms vs run
χ^2 / ndf 6.379e+04 / 85
p0 1984 ± 1.557
3000
2800
2600
2400
2200
2000
1800
1600


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 95.32 / 85
p0 1623 ± 877.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 502.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.003958
Std Dev 1.053
16
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12
10
8
6
4
2
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−4
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2
4
6
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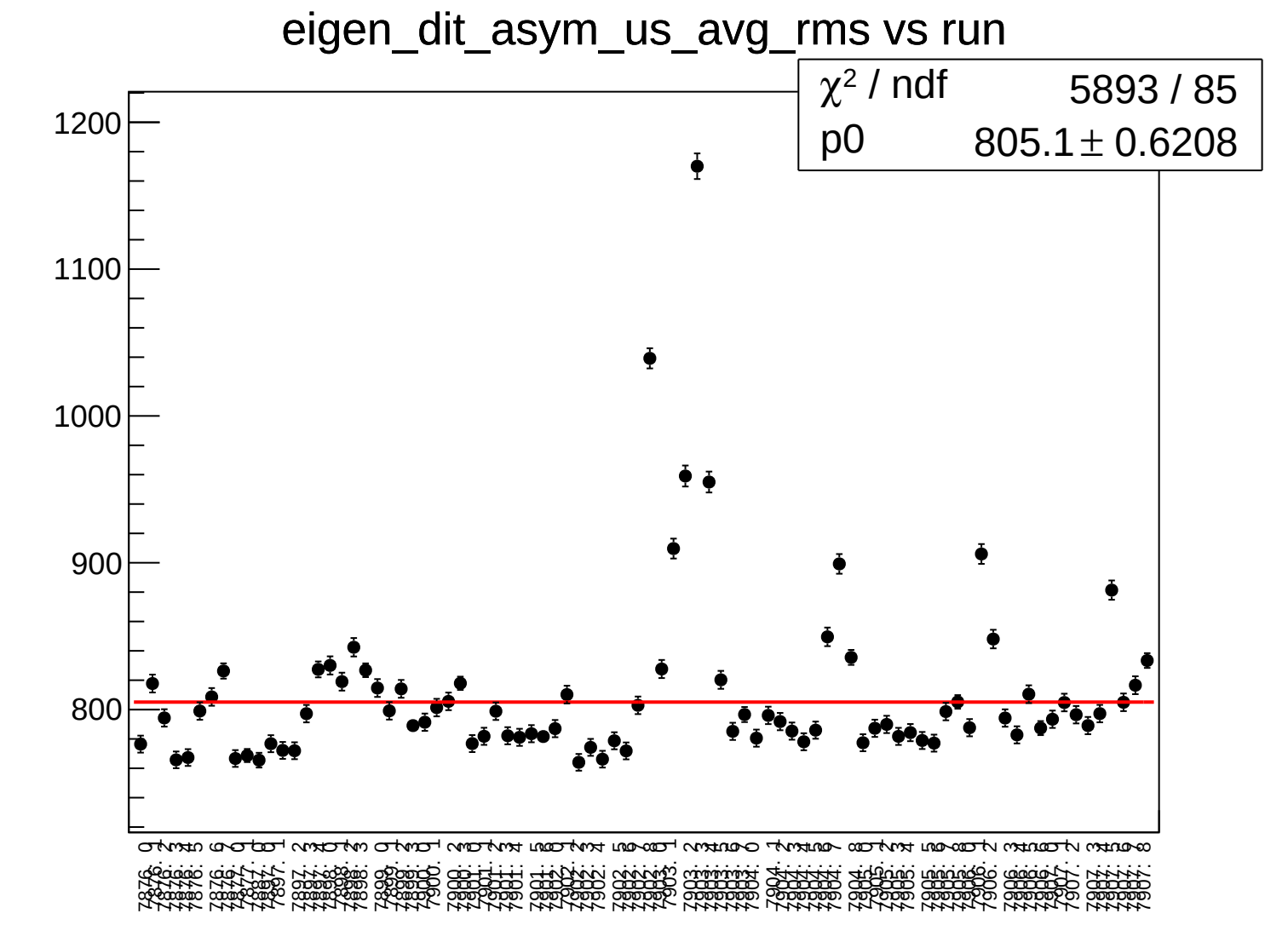
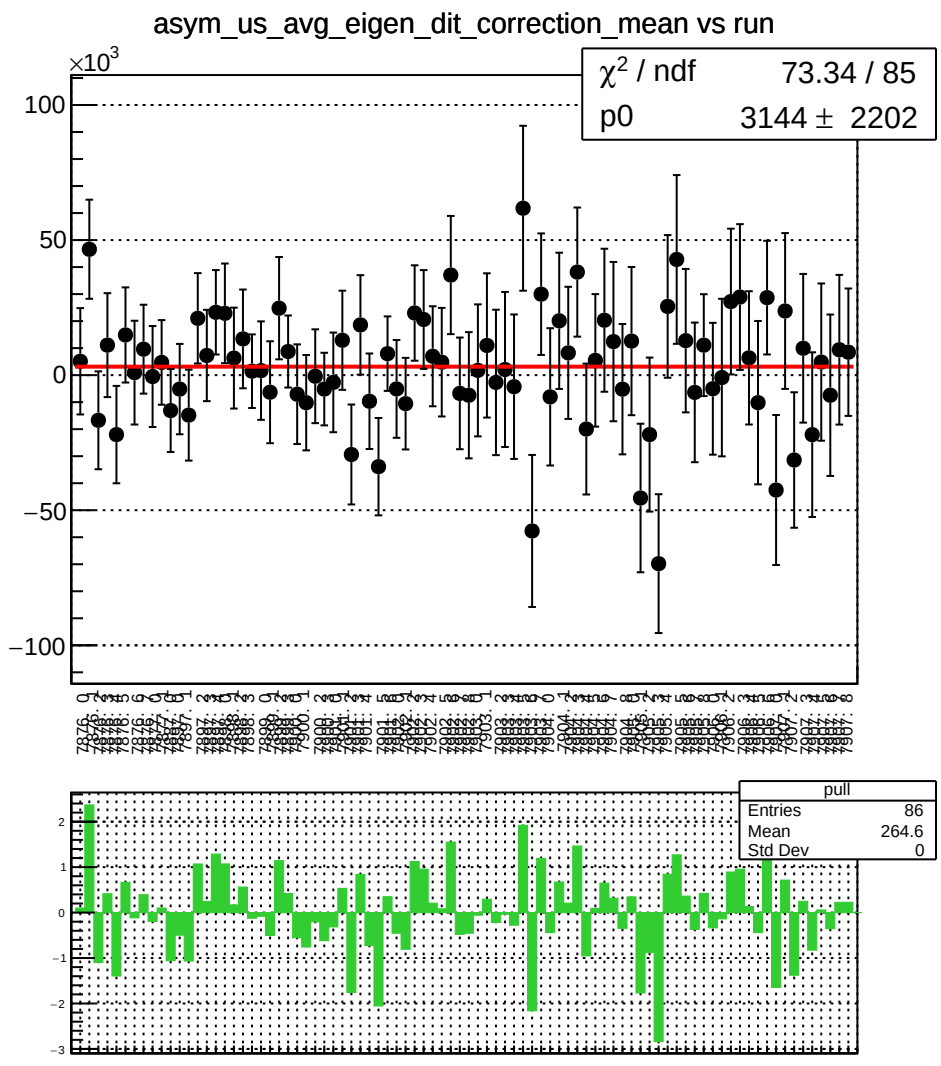
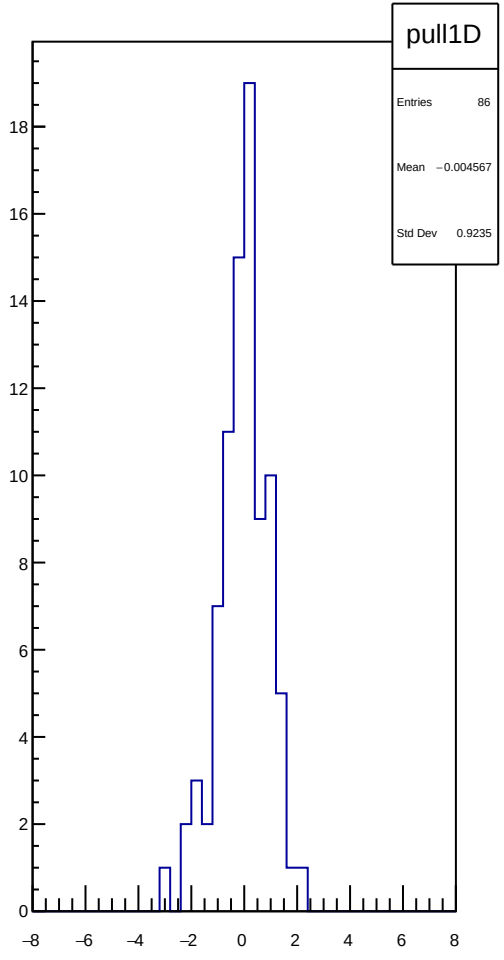

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 5893 / 85
p0 805.1 ± 0.6208
1200
1100
1000
900
800


asym_us_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.34 / 85
p0 3144 ± 2202
100
50
0
−50
−100
pull
Entries 86
Mean 264.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.004567
Std Dev 0.9235
18
16
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8
6
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2
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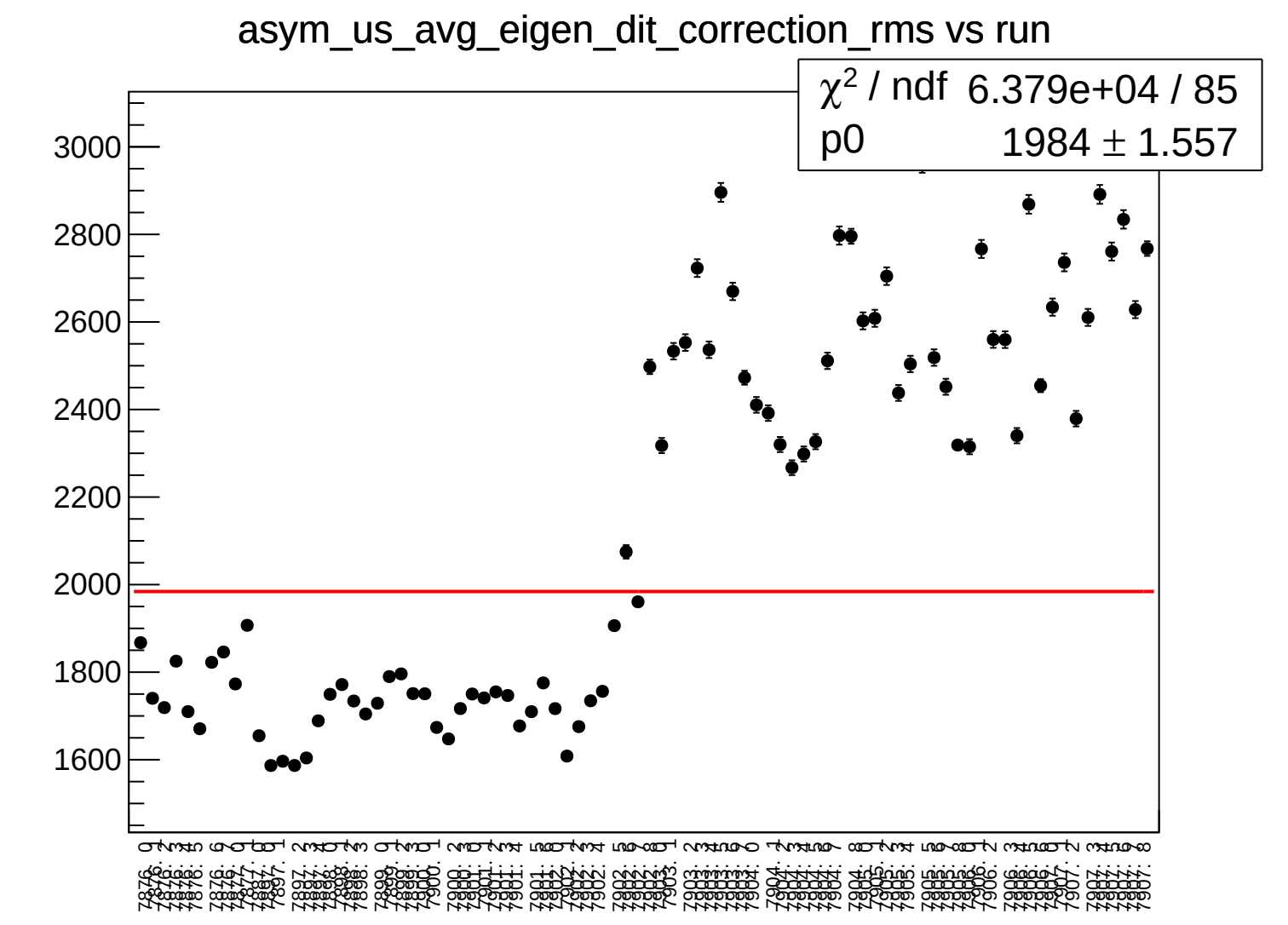
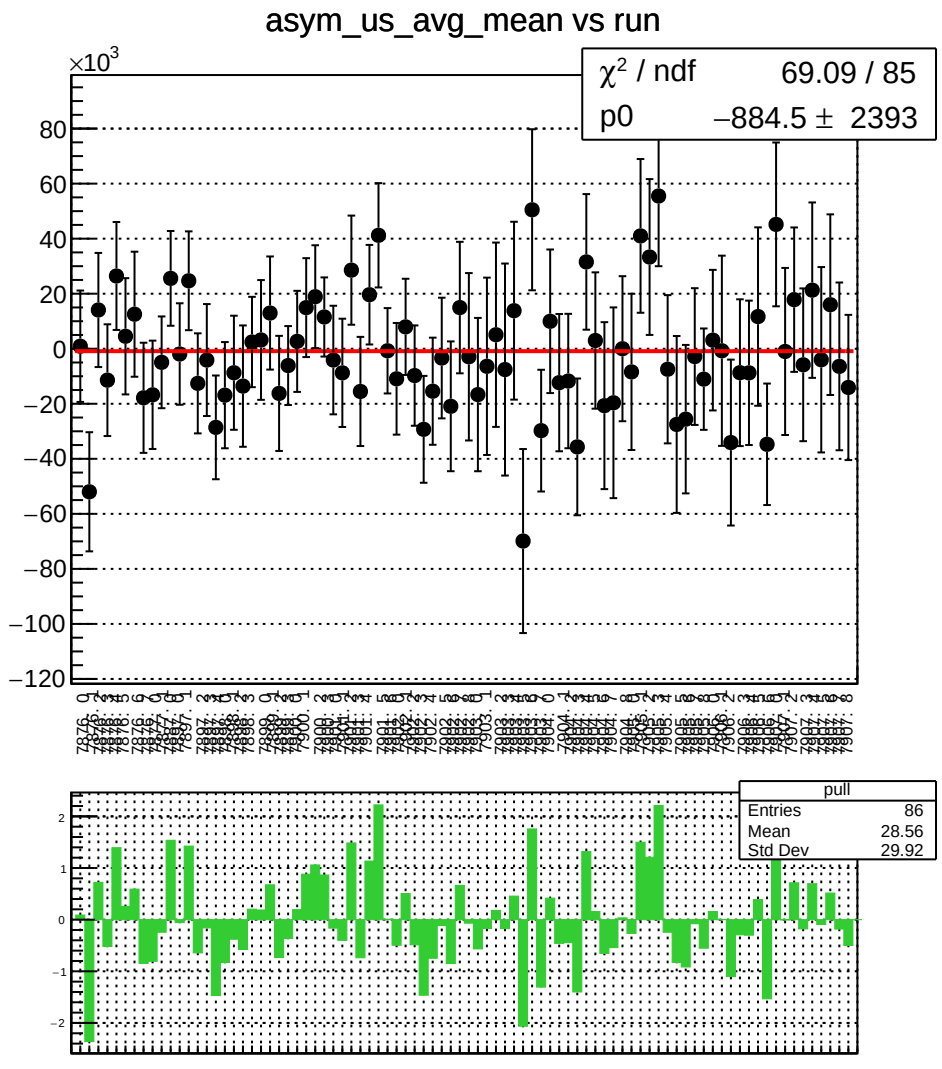
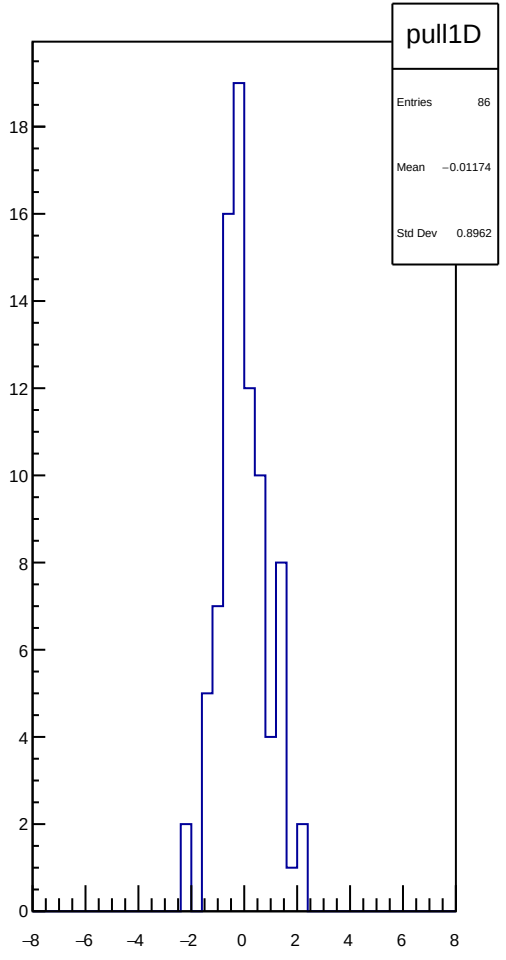
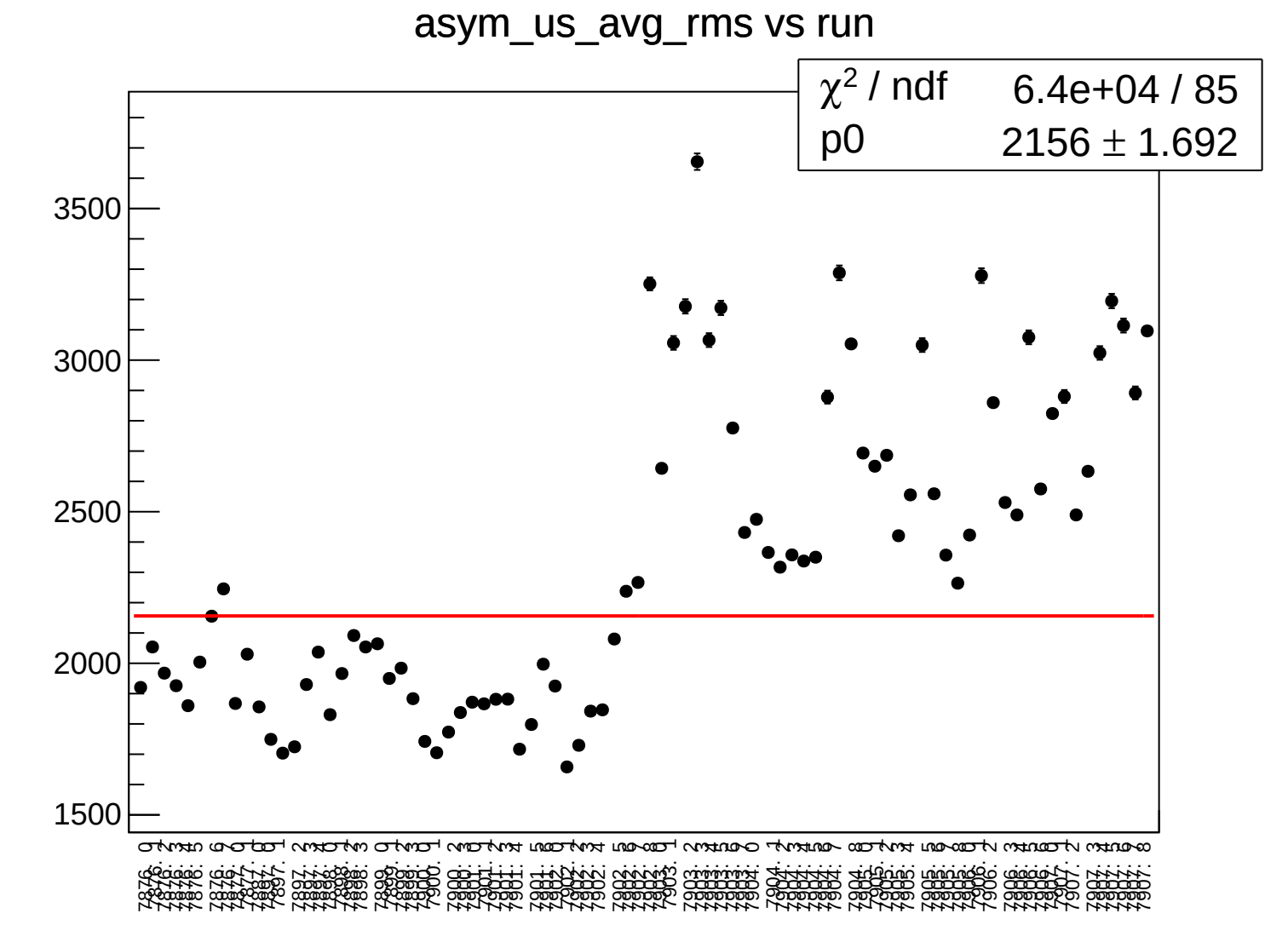
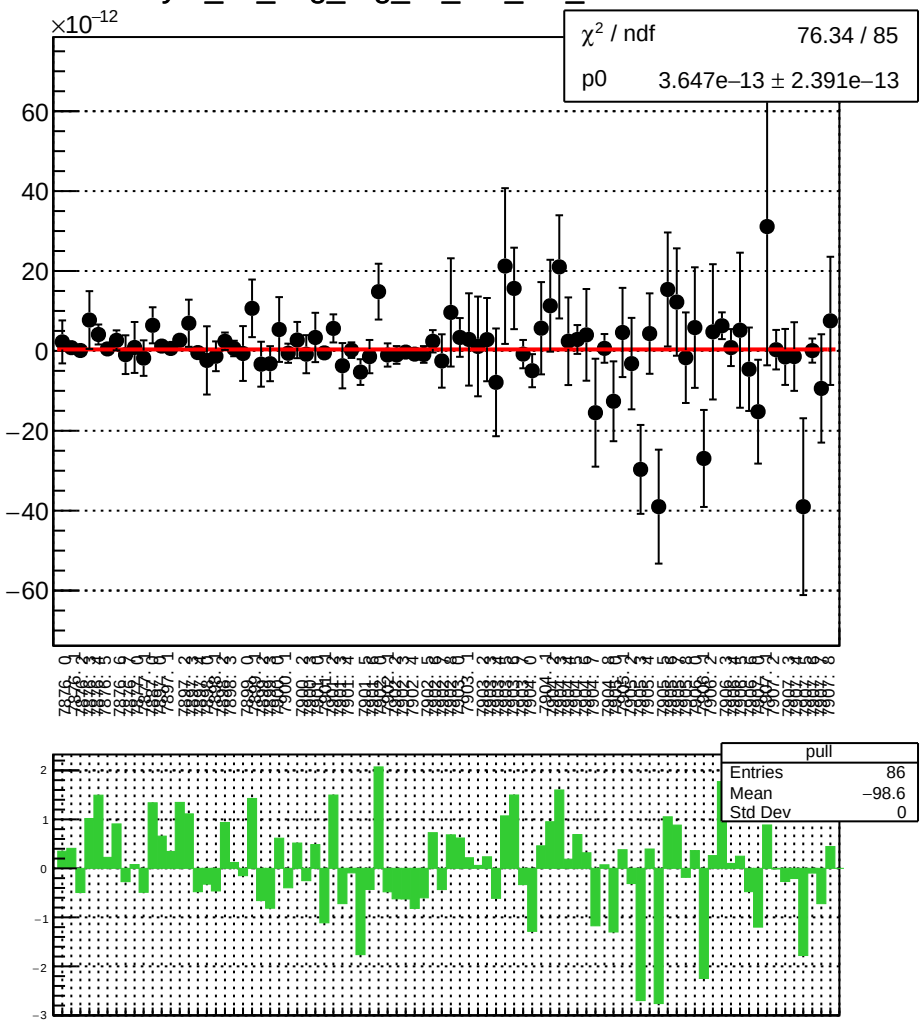
6
8

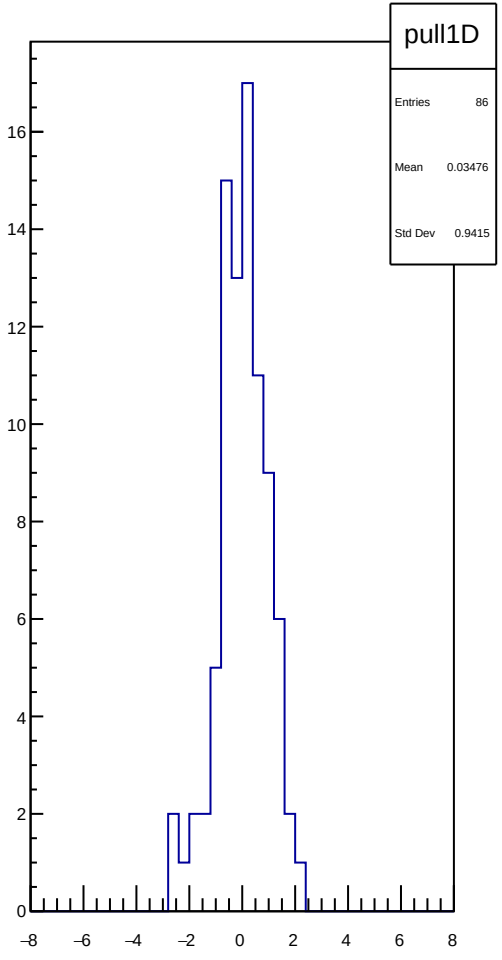

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.379e+04 / 85
p0 1984 ± 1.557
3000
2800
2600
2400
2200
2000
1800
1600


asym_us_avg_mean vs run
×10^3
χ² / ndf 69.09 / 85
p0 −884.5 ± 2393
pull
Entries 86
Mean 28.56
Std Dev 29.92

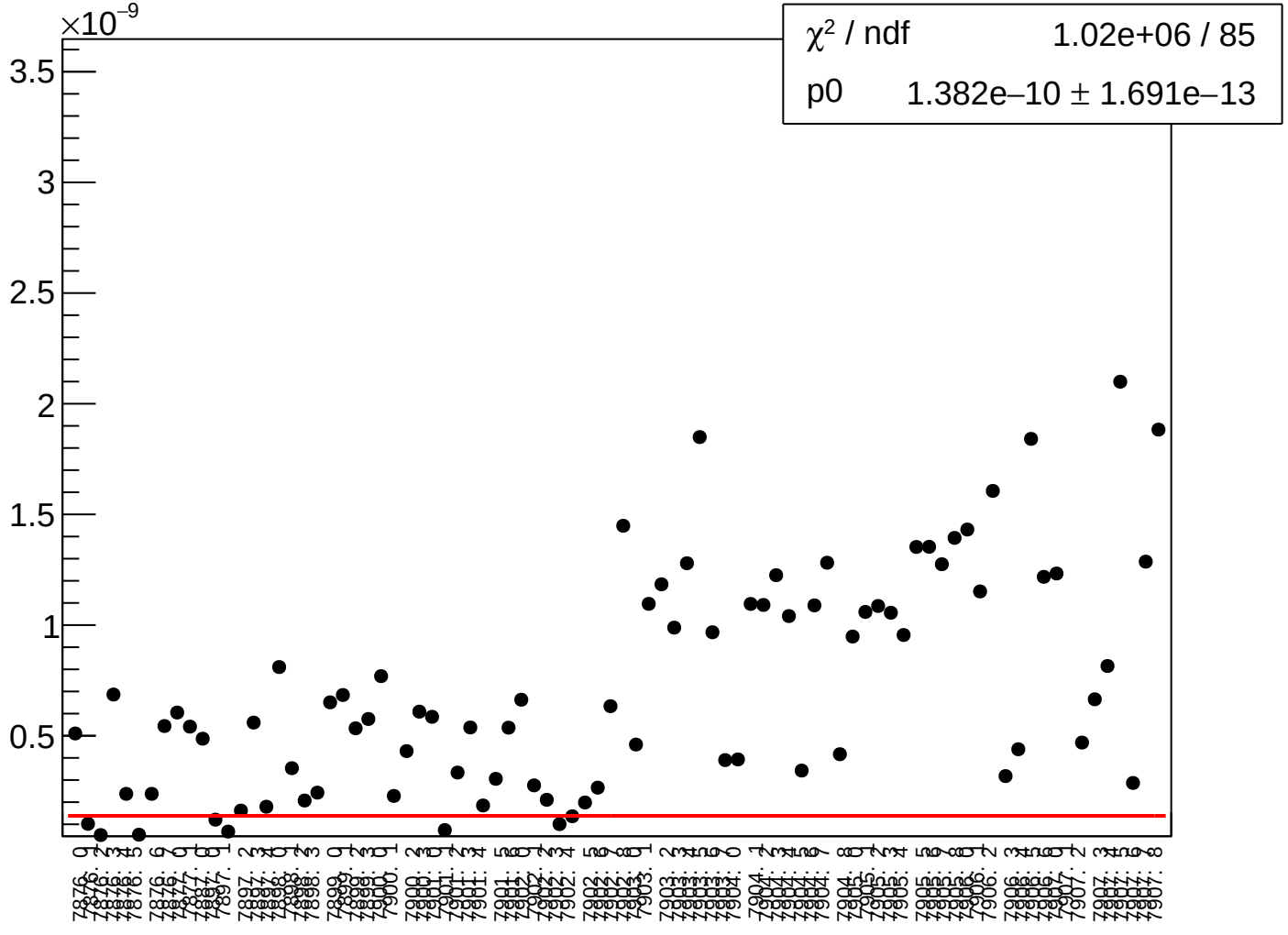

pull1D
Entries 86
Mean −0.01174
Std Dev 0.8962

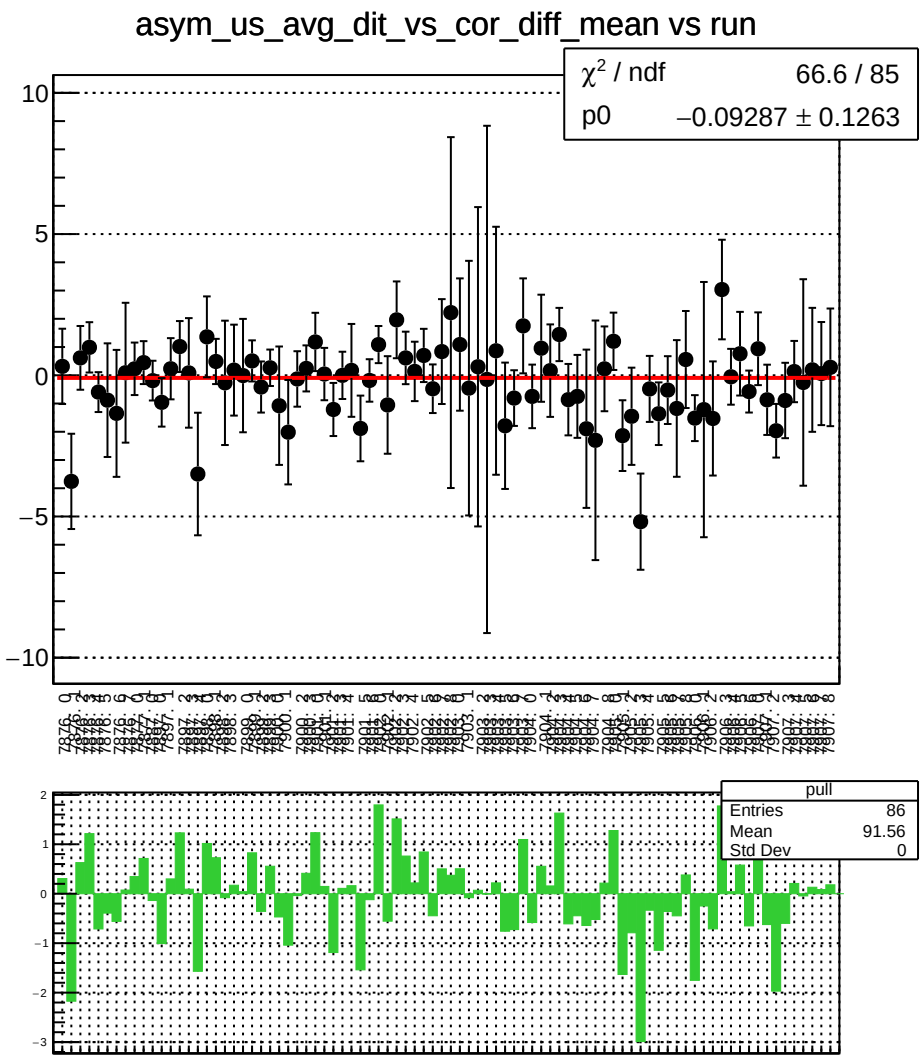

asym_us_avg_rms vs run
χ^2 / ndf 6.4e+04 / 85
p0 2156 ± 1.692
3500
3000
2500
2000
1500

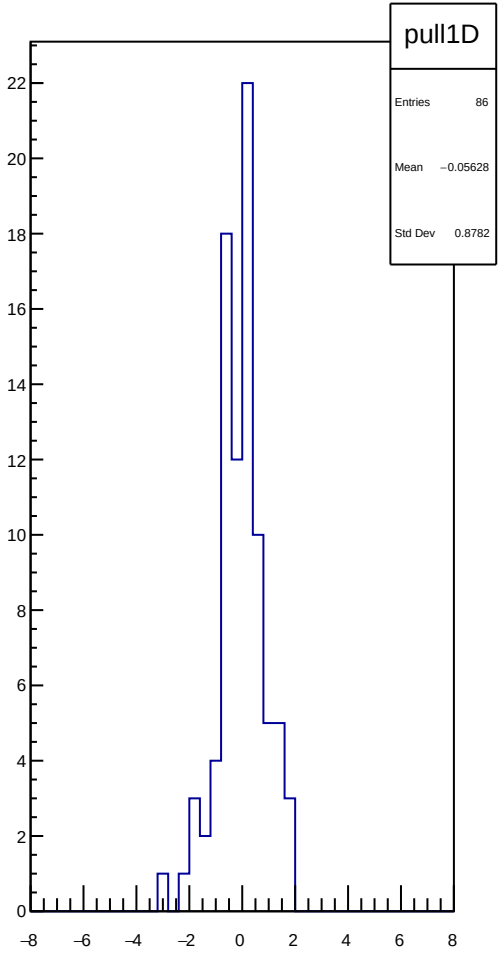

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.34 / 85
p0 3.647e−13 ± 2.391e−13
pull
Entries 86
Mean −98.6
Std Dev 0

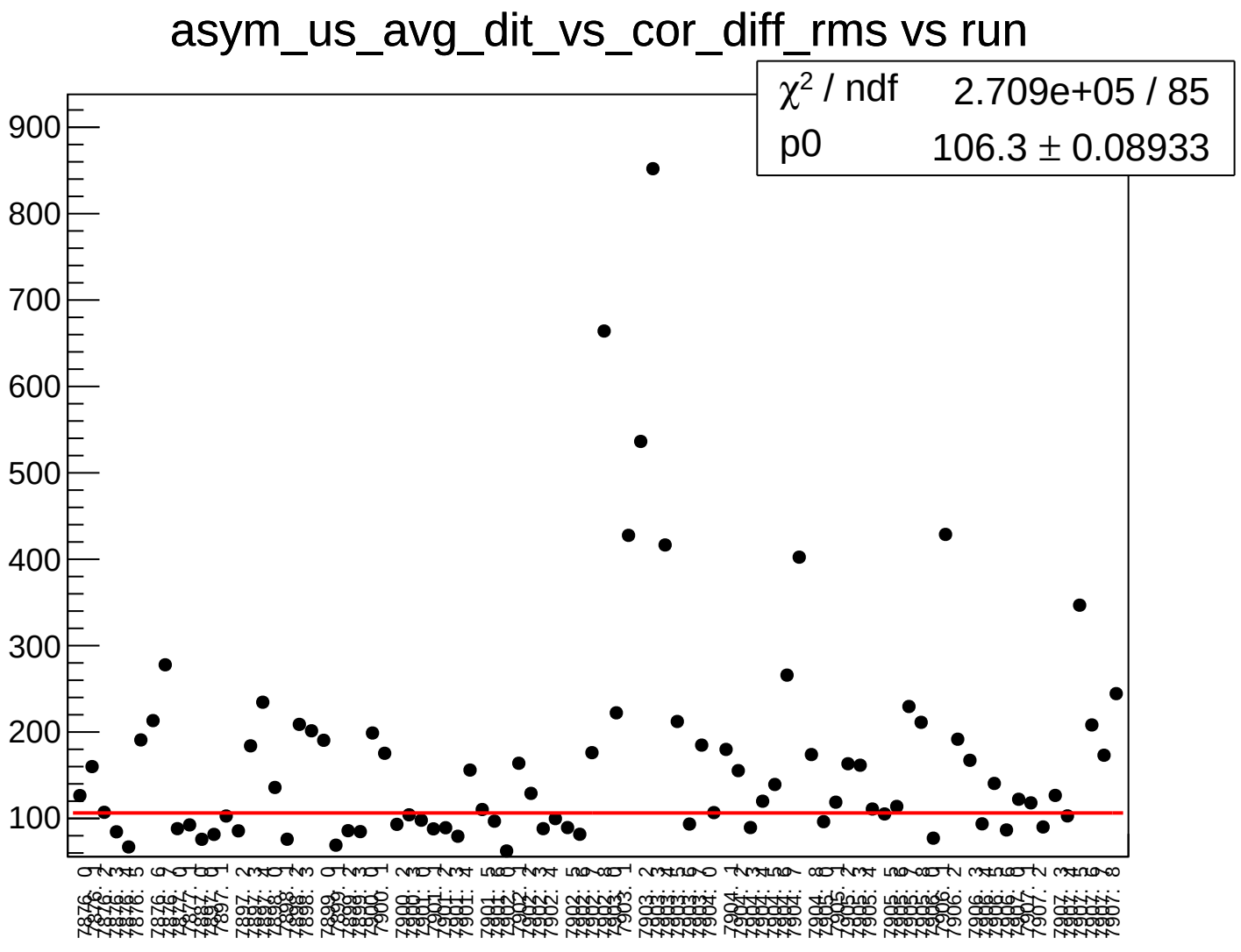

pull1D
Entries 86
Mean 0.03476
Std Dev 0.9415

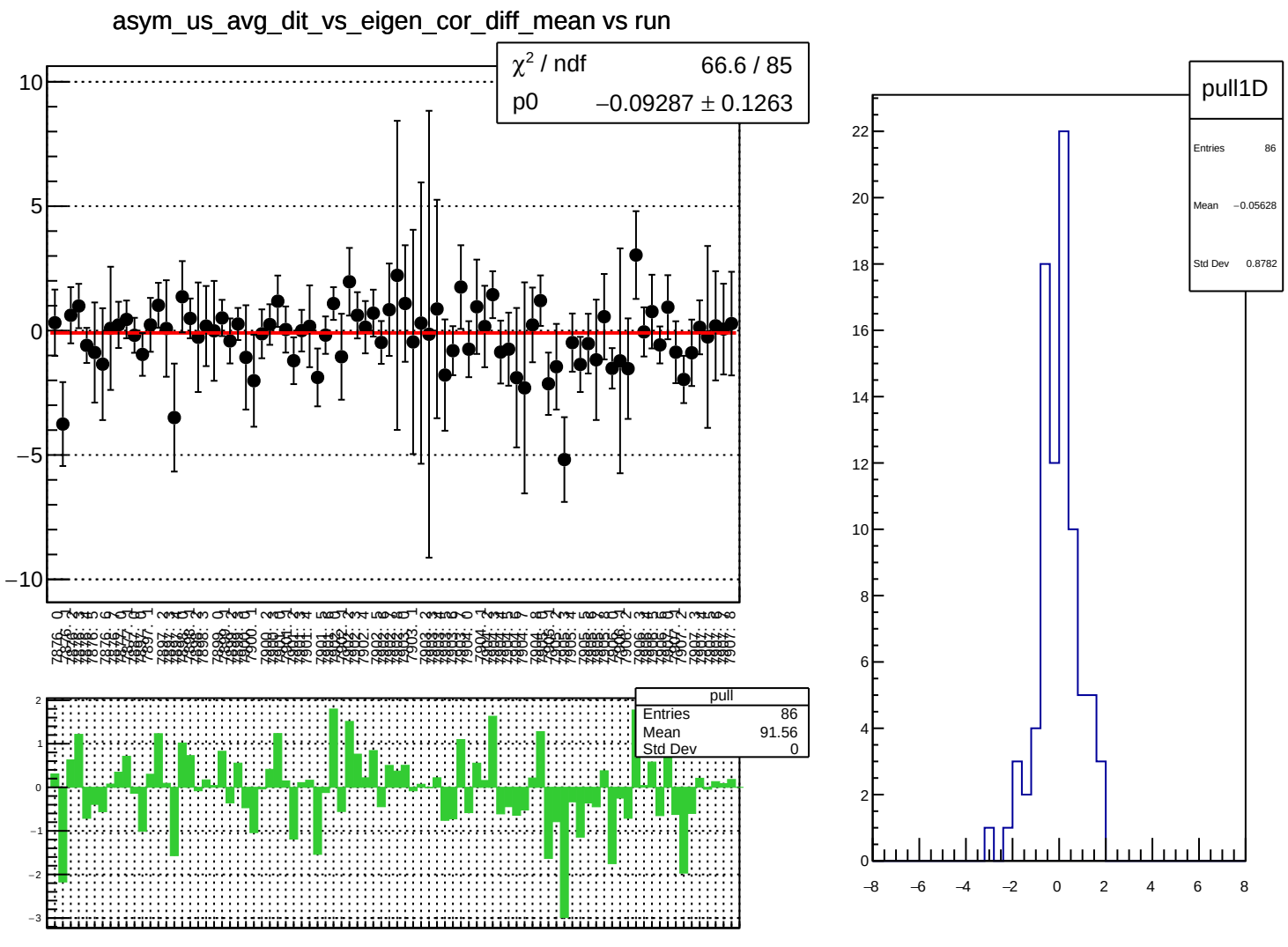
asym_us_avg_reg_vs_cor_diff_rms vs run

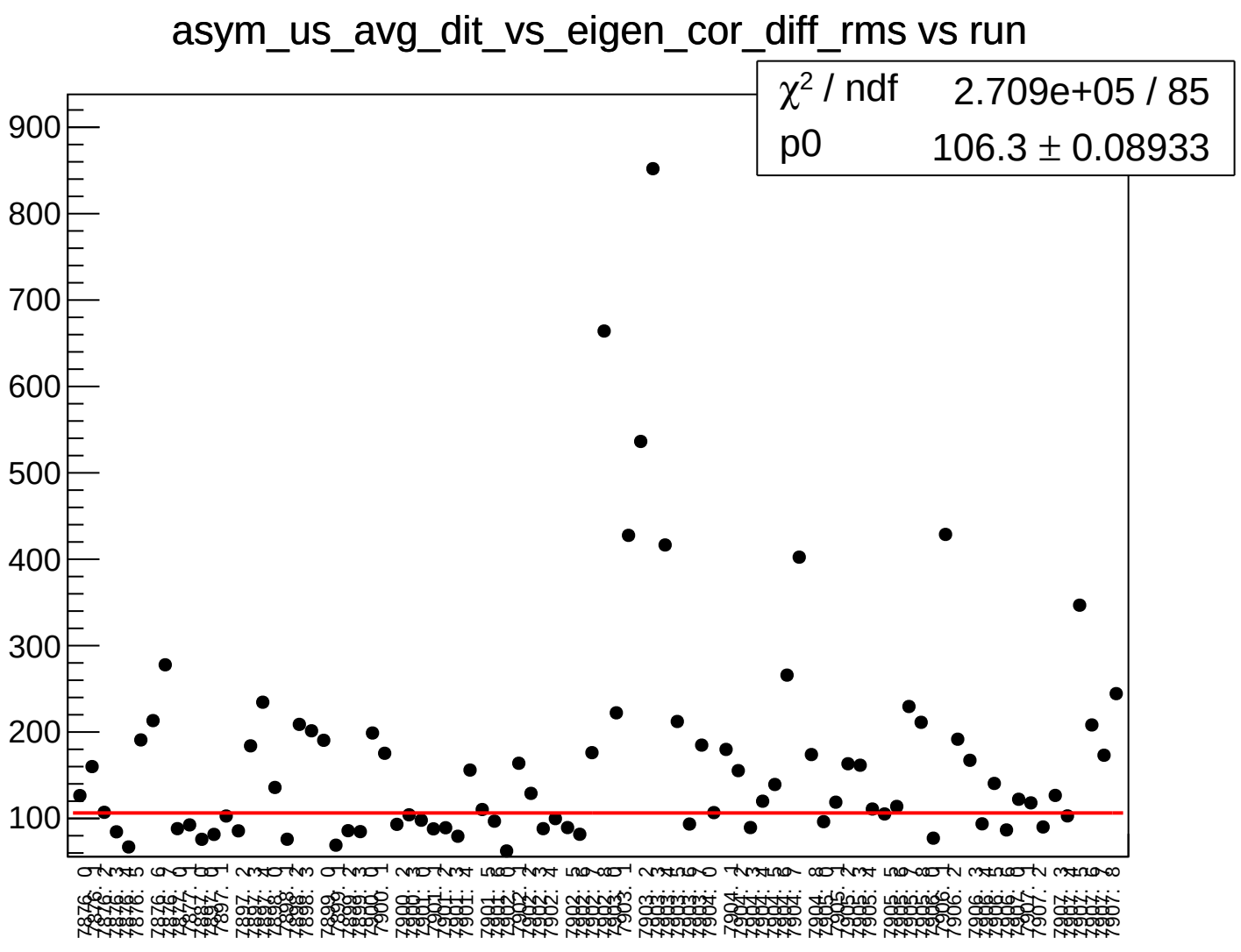


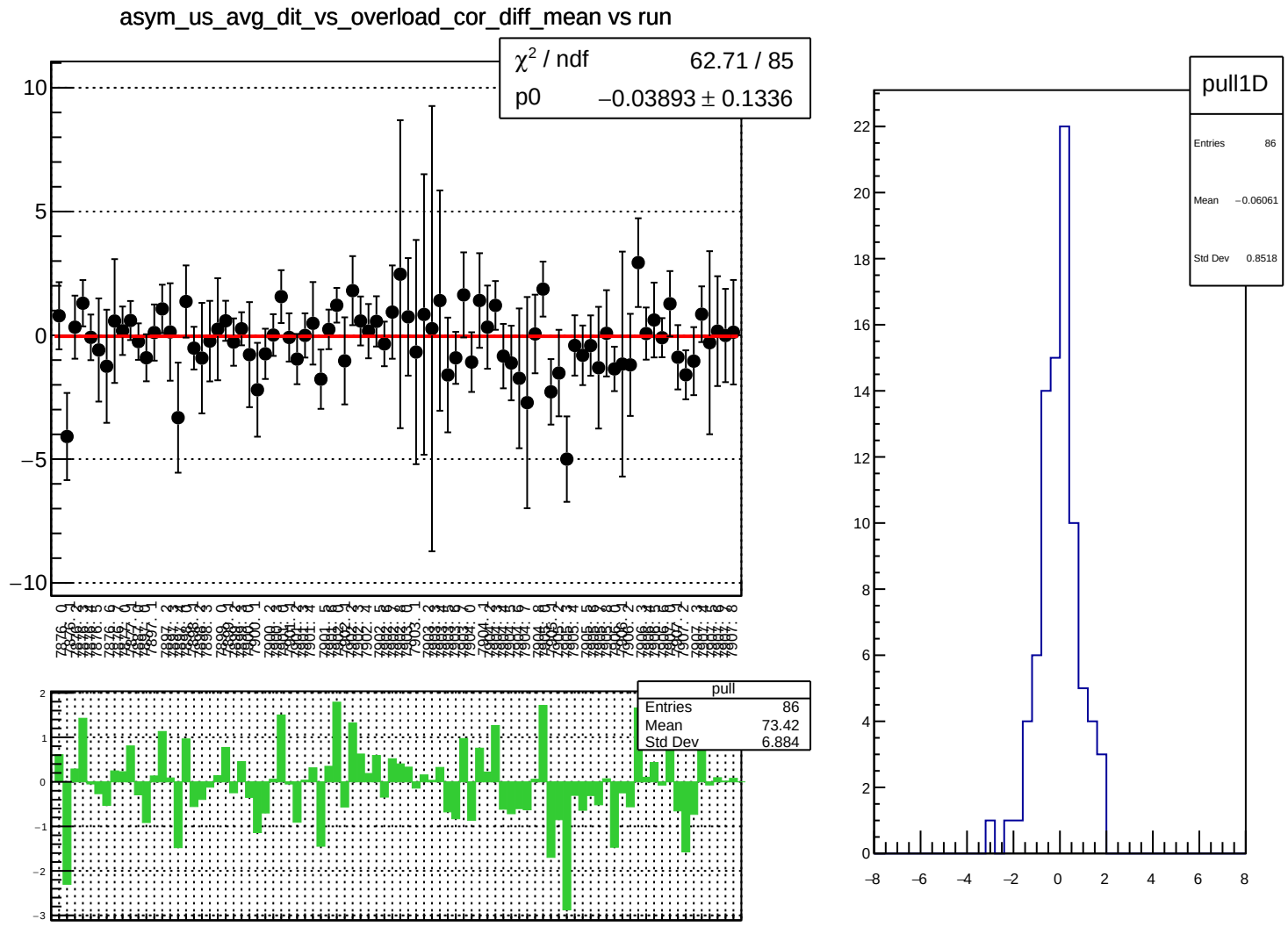

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.6 / 85
p0 −0.09287 ± 0.1263
pull
Entries 86
Mean 91.56
Std Dev 0

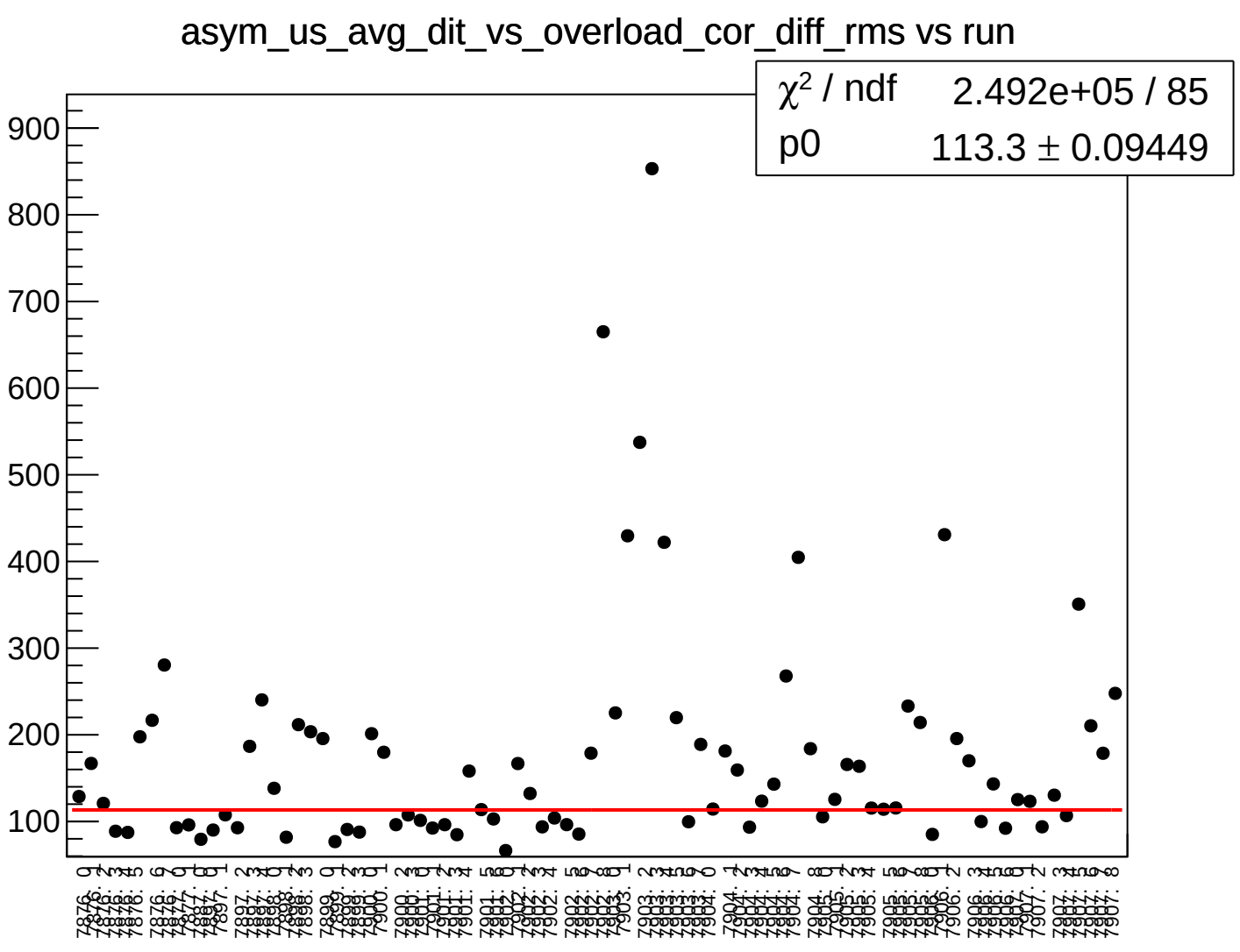

pull1D
Entries 86
Mean −0.05628
Std Dev 0.8782

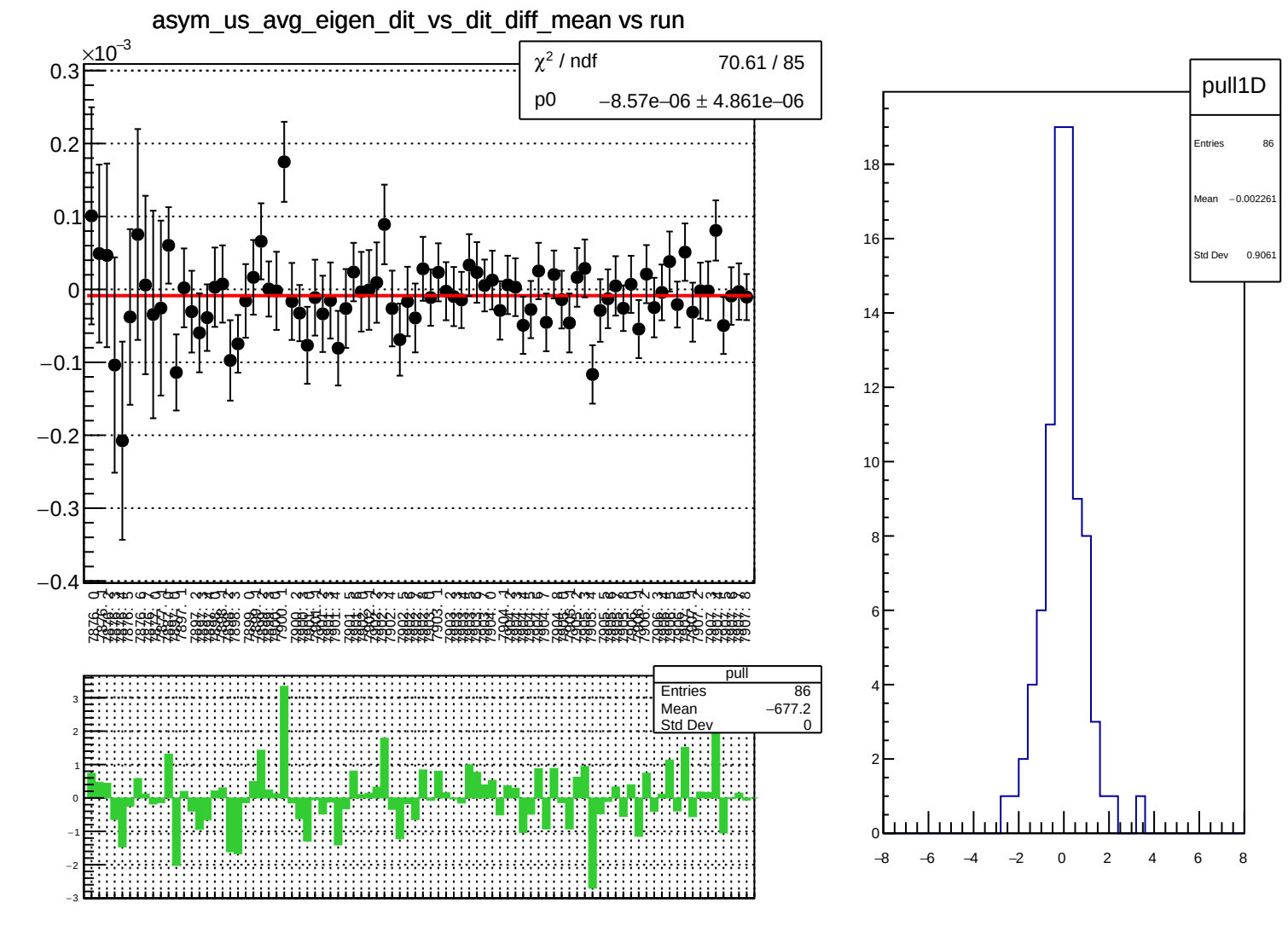

asym_us_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.709e+05 / 85
p0 106.3 ± 0.08933
900
800
700
600
500
400
300
200
100

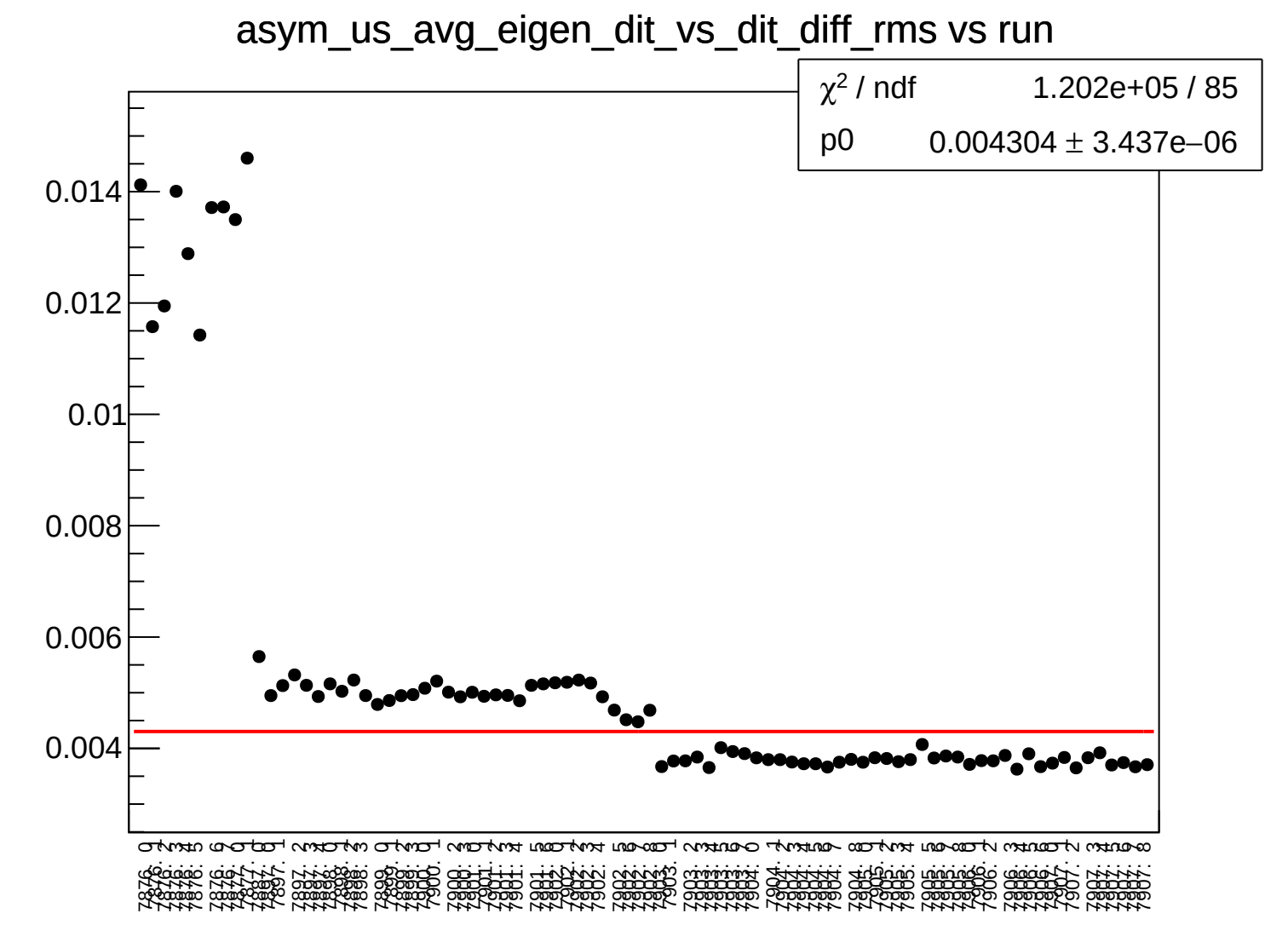

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.6 / 85
p0 −0.09287 ± 0.1263
pull
Entries 86
Mean 91.56
Std Dev 0
pull1D
Entries 86
Mean −0.05628
Std Dev 0.8782

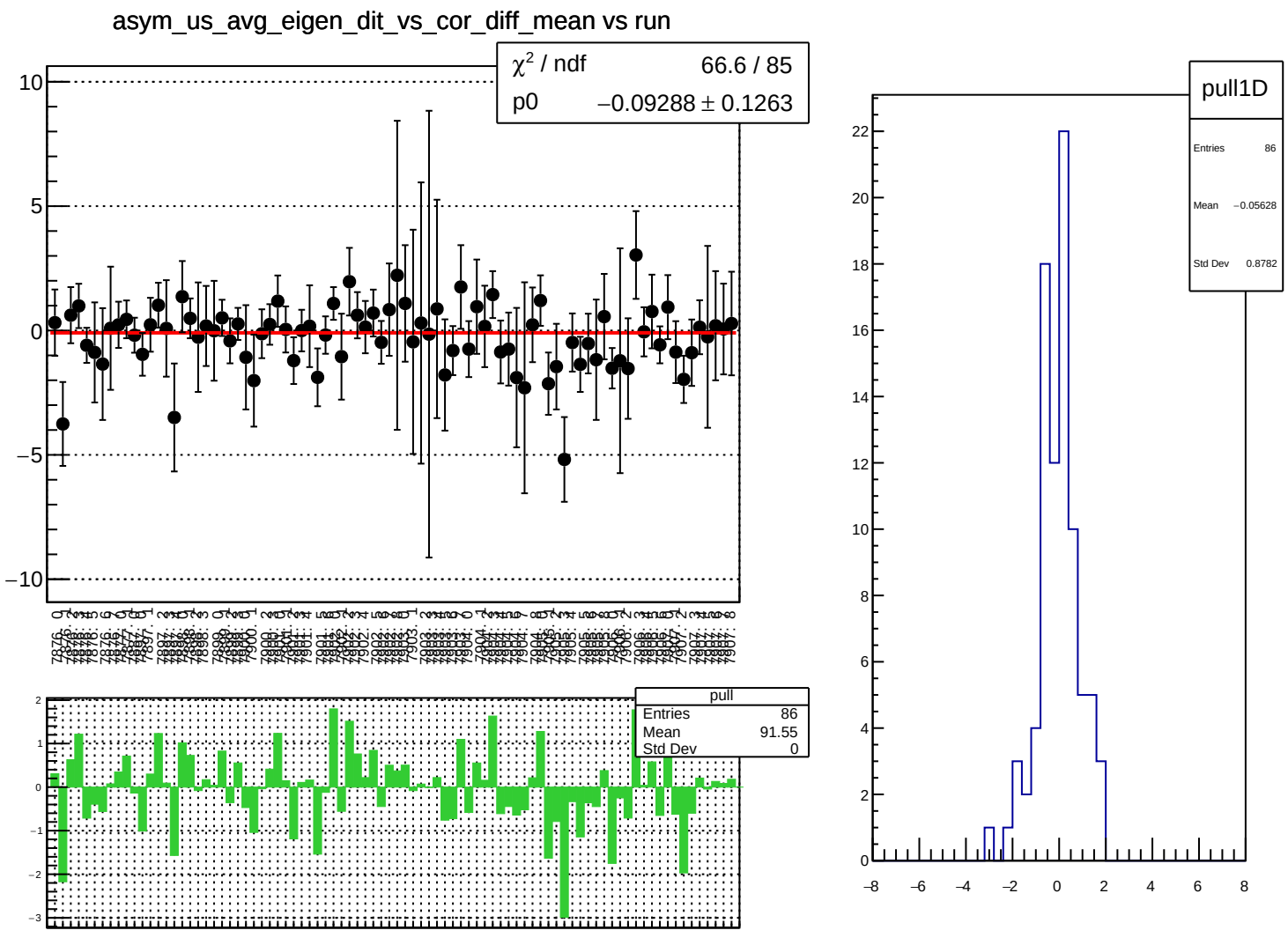

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.709e+05 / 85
p0 106.3 ± 0.08933
900
800
700
600
500
400
300
200
100

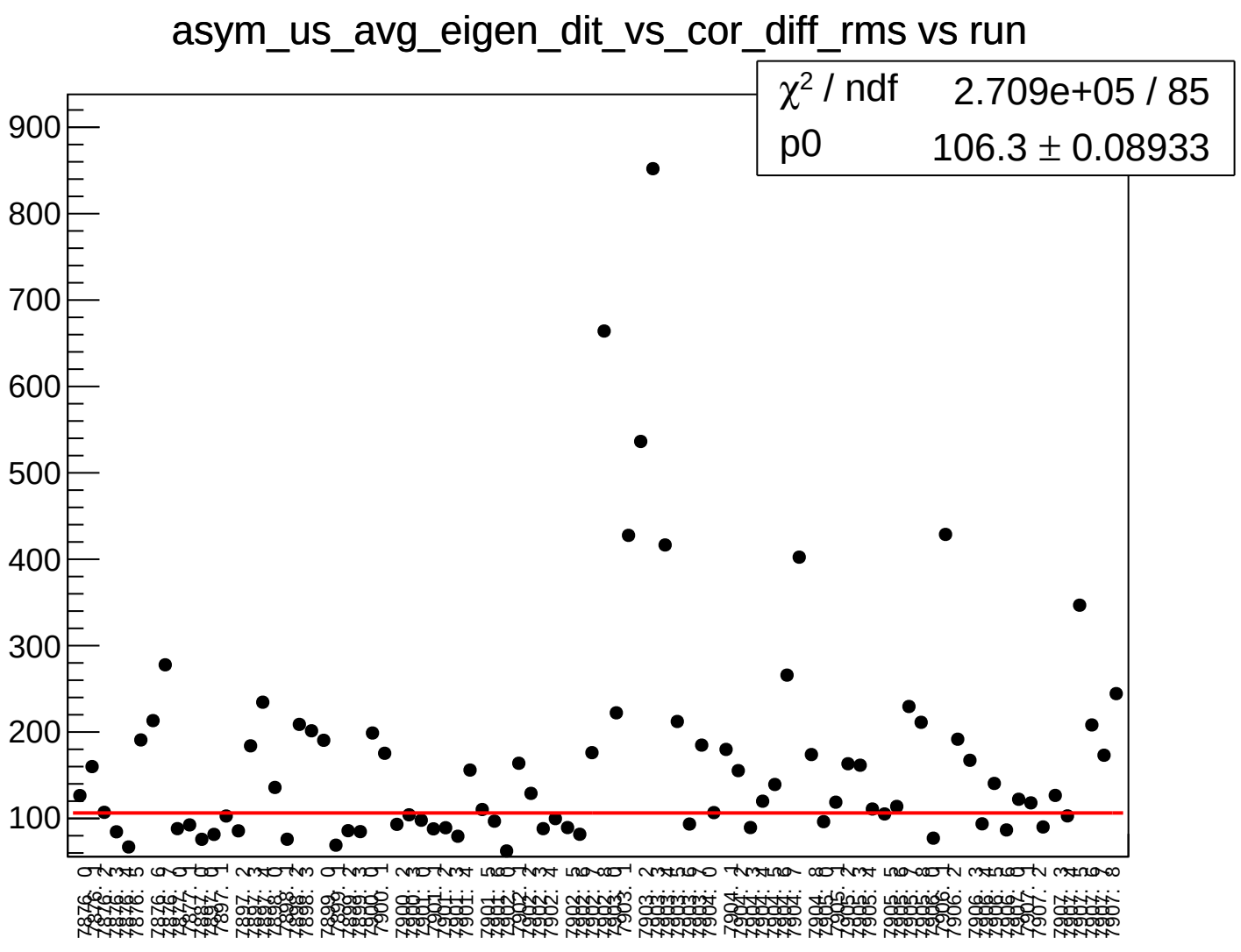

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 62.71 / 85
p0 −0.03893 ± 0.1336
pull
Entries 86
Mean 73.42
Std Dev 6.884
pull1D
Entries 86
Mean −0.06061
Std Dev 0.8518

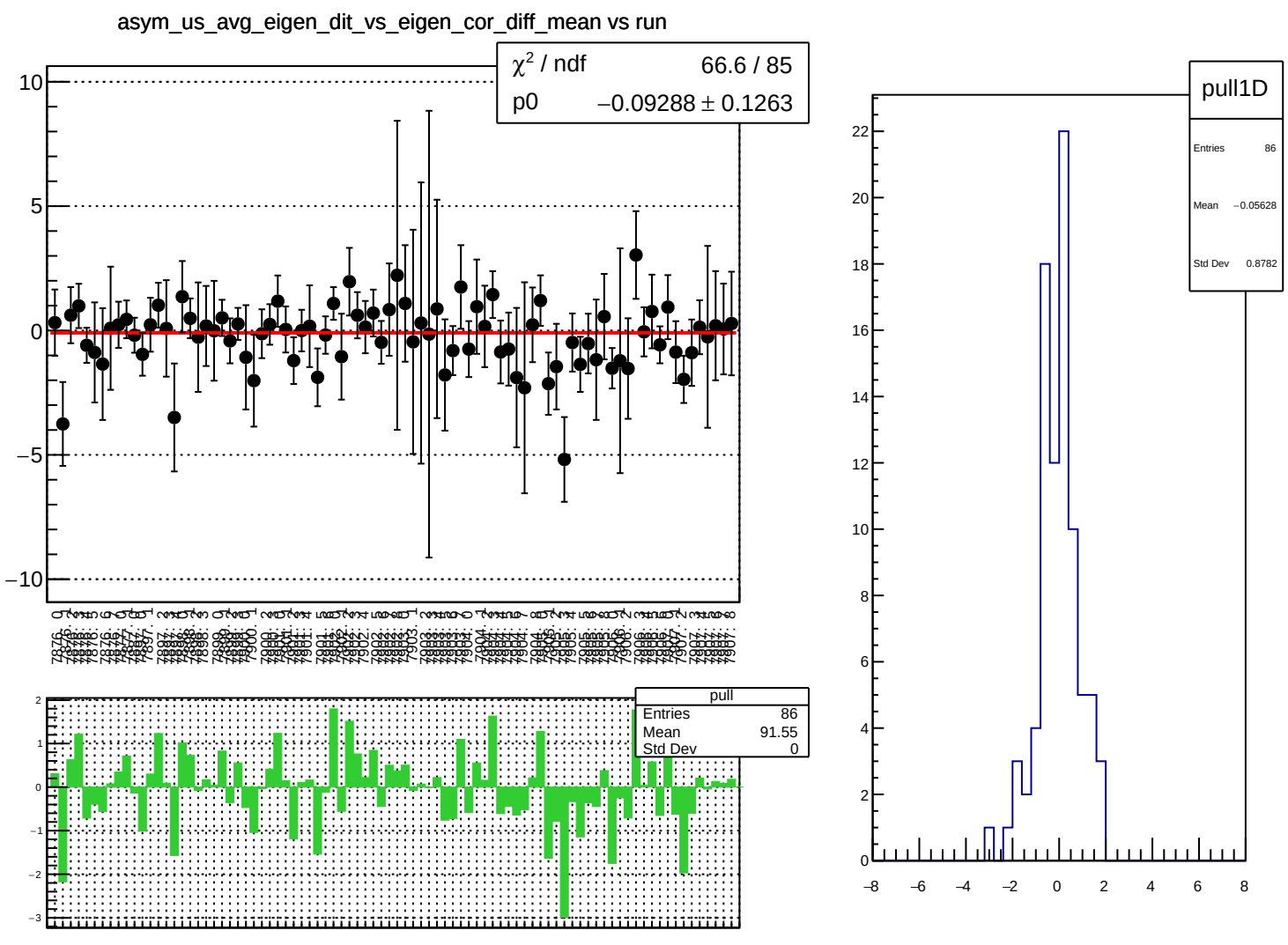

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.492e+05 / 85
p0 113.3 ± 0.09449
900
800
700
600
500
400
300
200
100

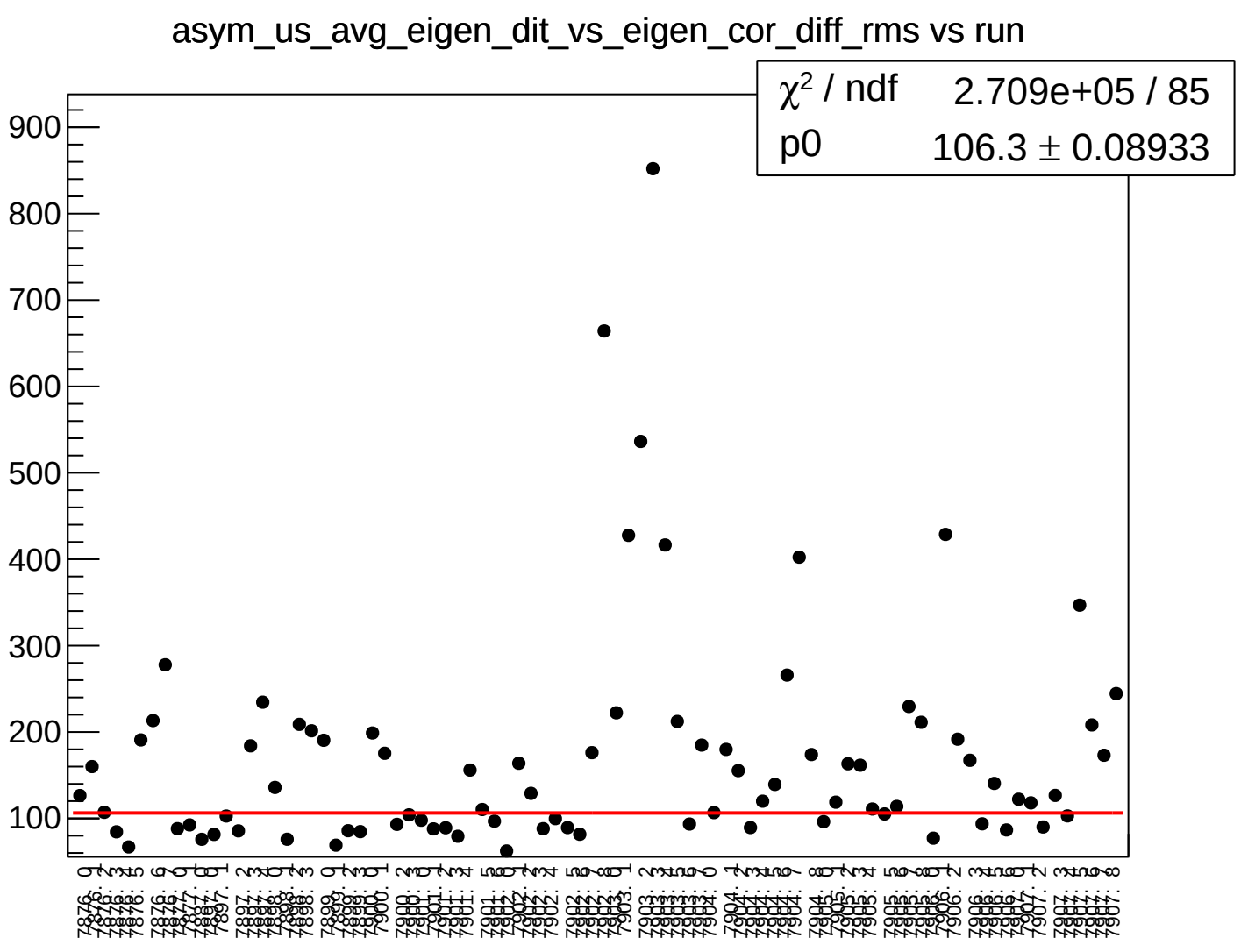

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.61 / 85
p0 −8.57e−06 ± 4.861e−06
pull
Entries 86
Mean −677.2
Std Dev 0
pull1D
Entries 86
Mean −0.002261
Std Dev 0.9061

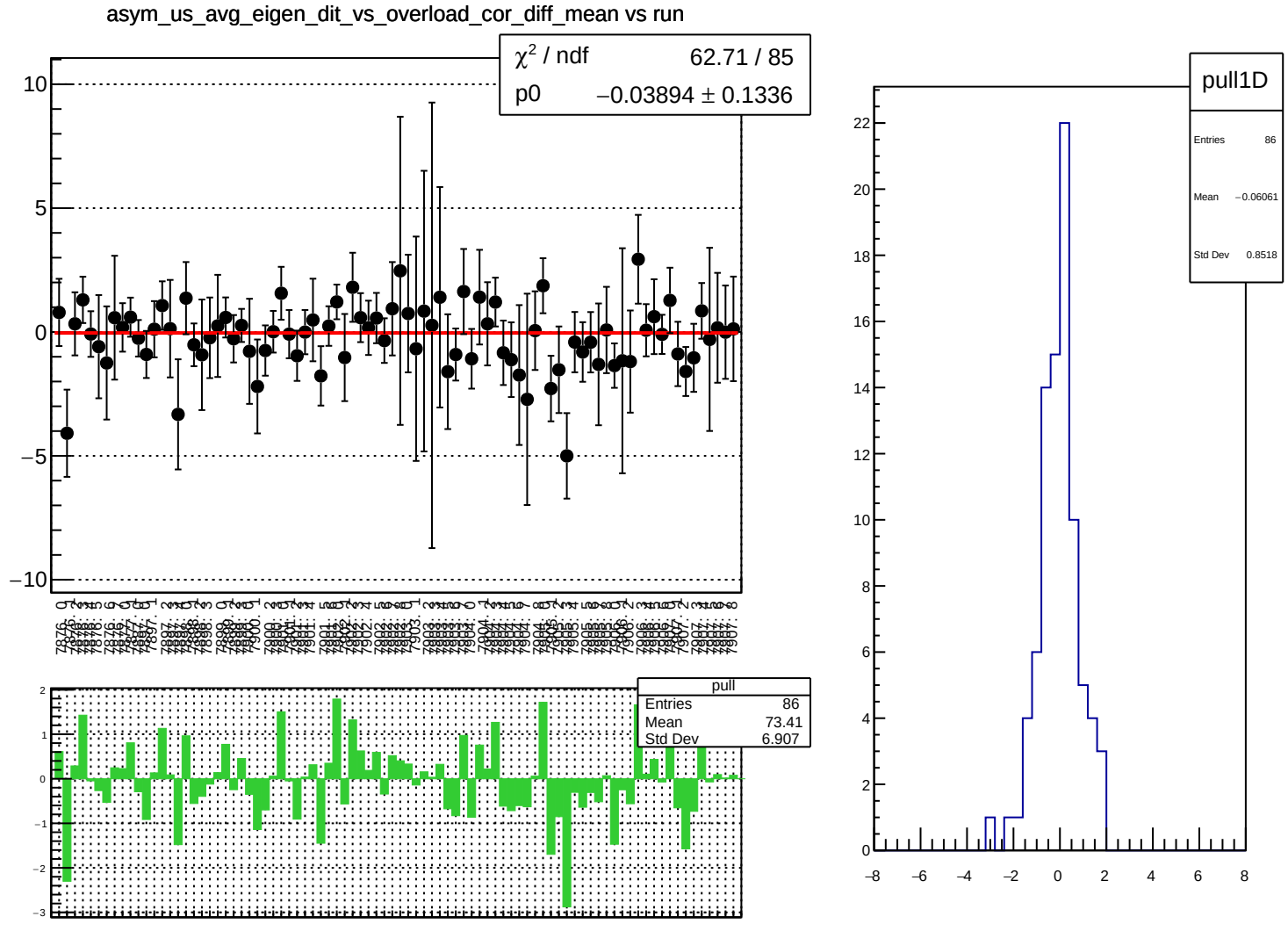

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.202e+05 / 85
p0 0.004304 ± 3.437e−06
0.014
0.012
0.01
0.008
0.006
0.004

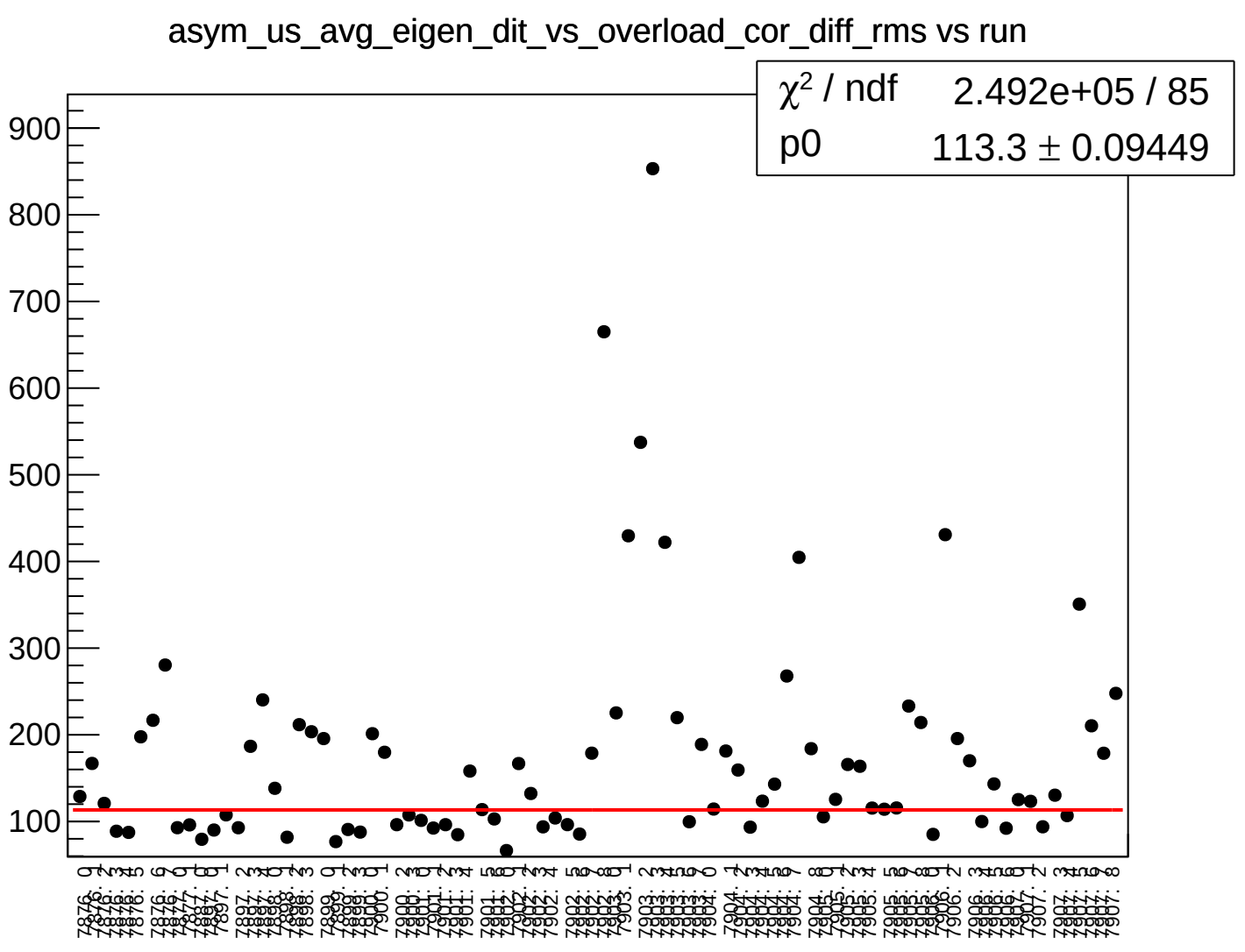

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.6 / 85
p0 −0.09288 ± 0.1263
pull
Entries 86
Mean 91.55
Std Dev 0
pull1D
Entries 86
Mean −0.05628
Std Dev 0.8782

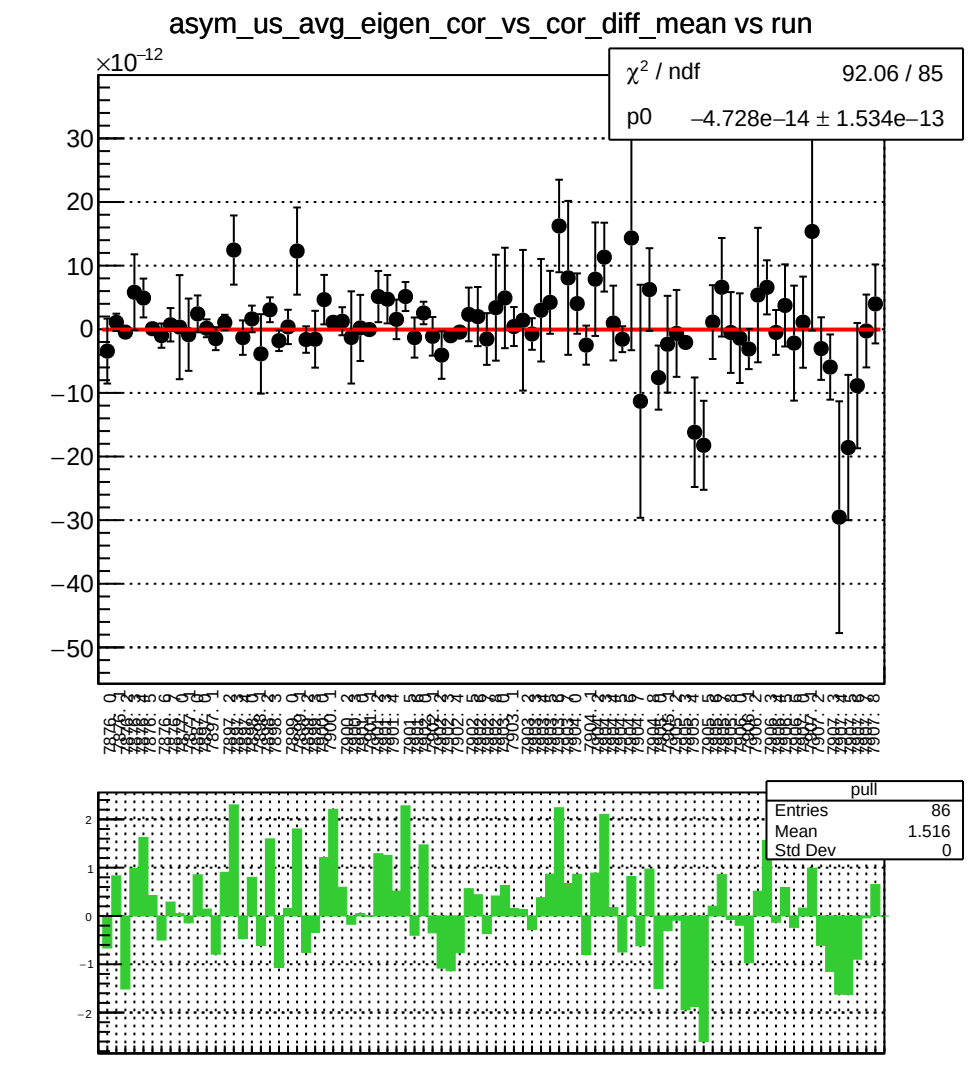

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.709e+05 / 85
p0 106.3 ± 0.08933
900
800
700
600
500
400
300
200
100

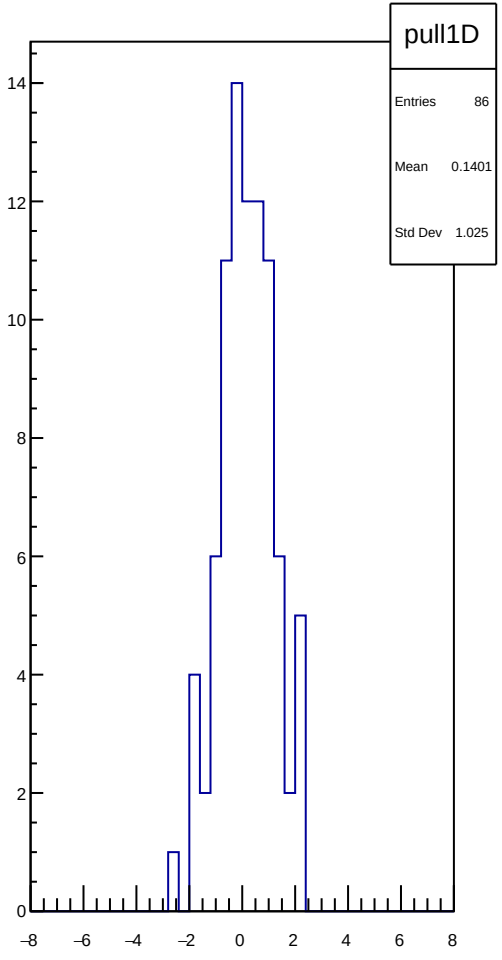

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.6 / 85
p0 −0.09288 ± 0.1263
pull
Entries 86
Mean 91.55
Std Dev 0
pull1D
Entries 86
Mean −0.05628
Std Dev 0.8782

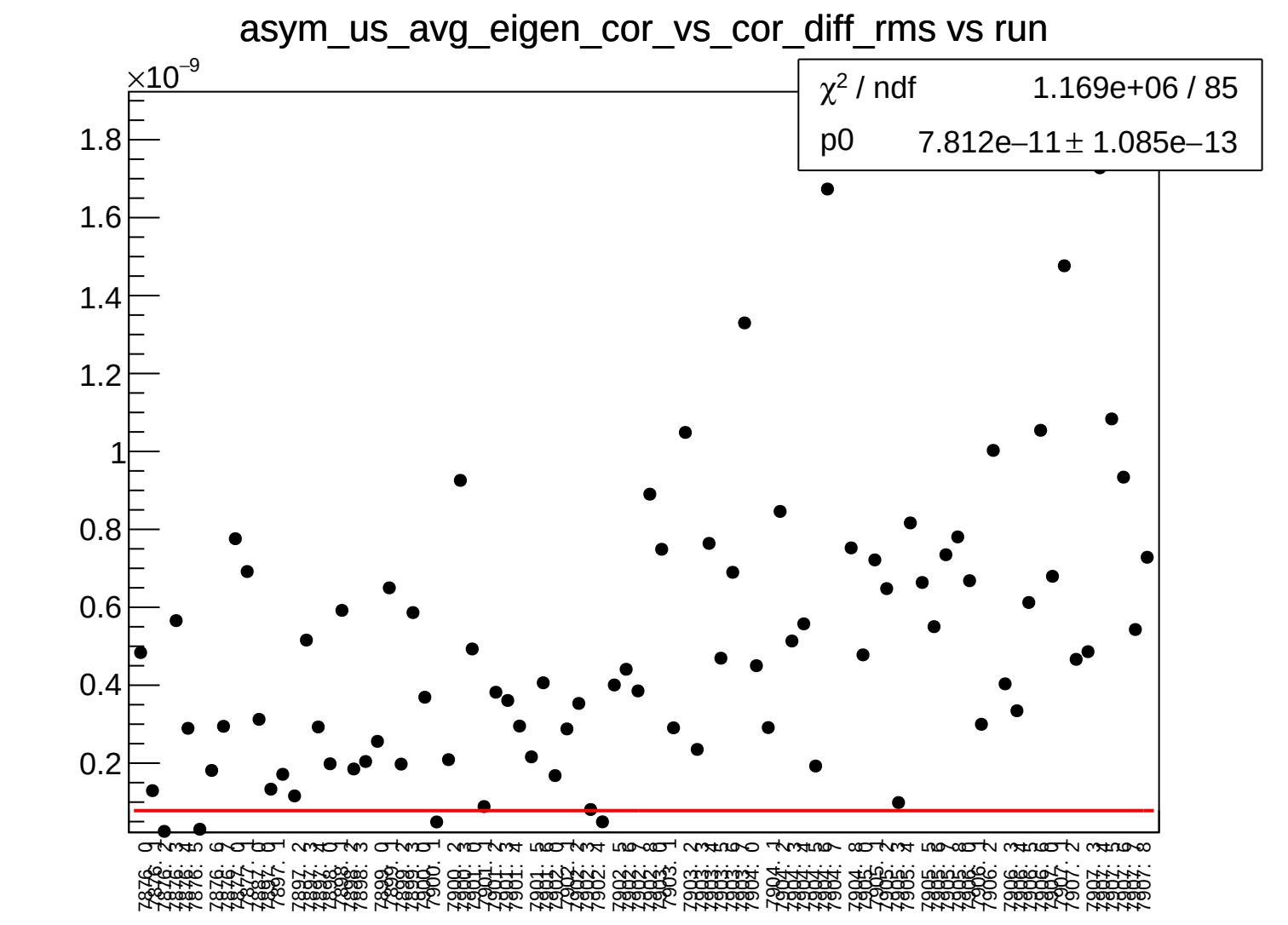

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.709e+05 / 85
p0 106.3 ± 0.08933
900
800
700
600
500
400
300
200
100

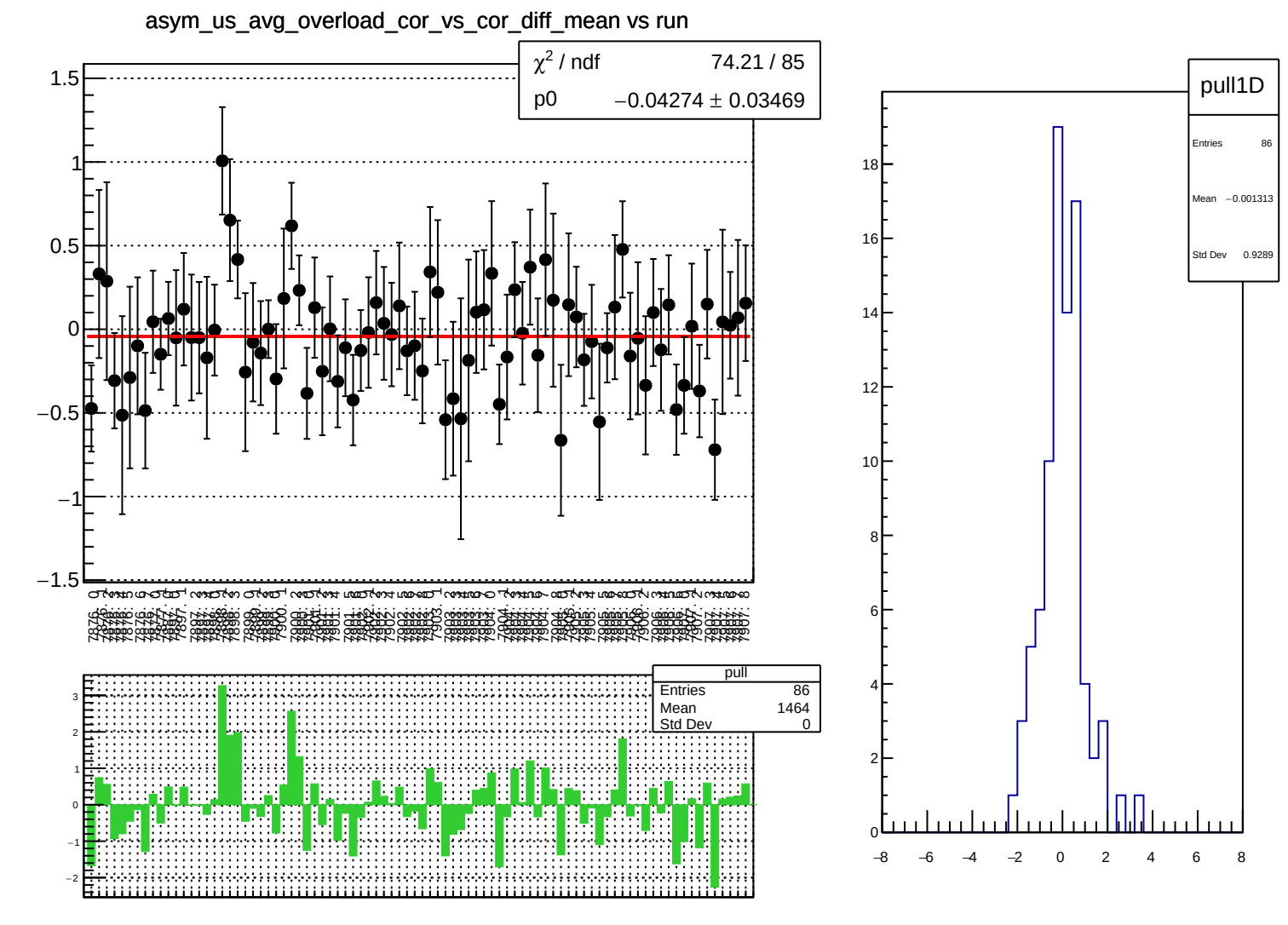

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 62.71 / 85
p0 −0.03894 ± 0.1336
pull
Entries 86
Mean 73.41
Std Dev 6.907
pull1D
Entries 86
Mean −0.06061
Std Dev 0.8518

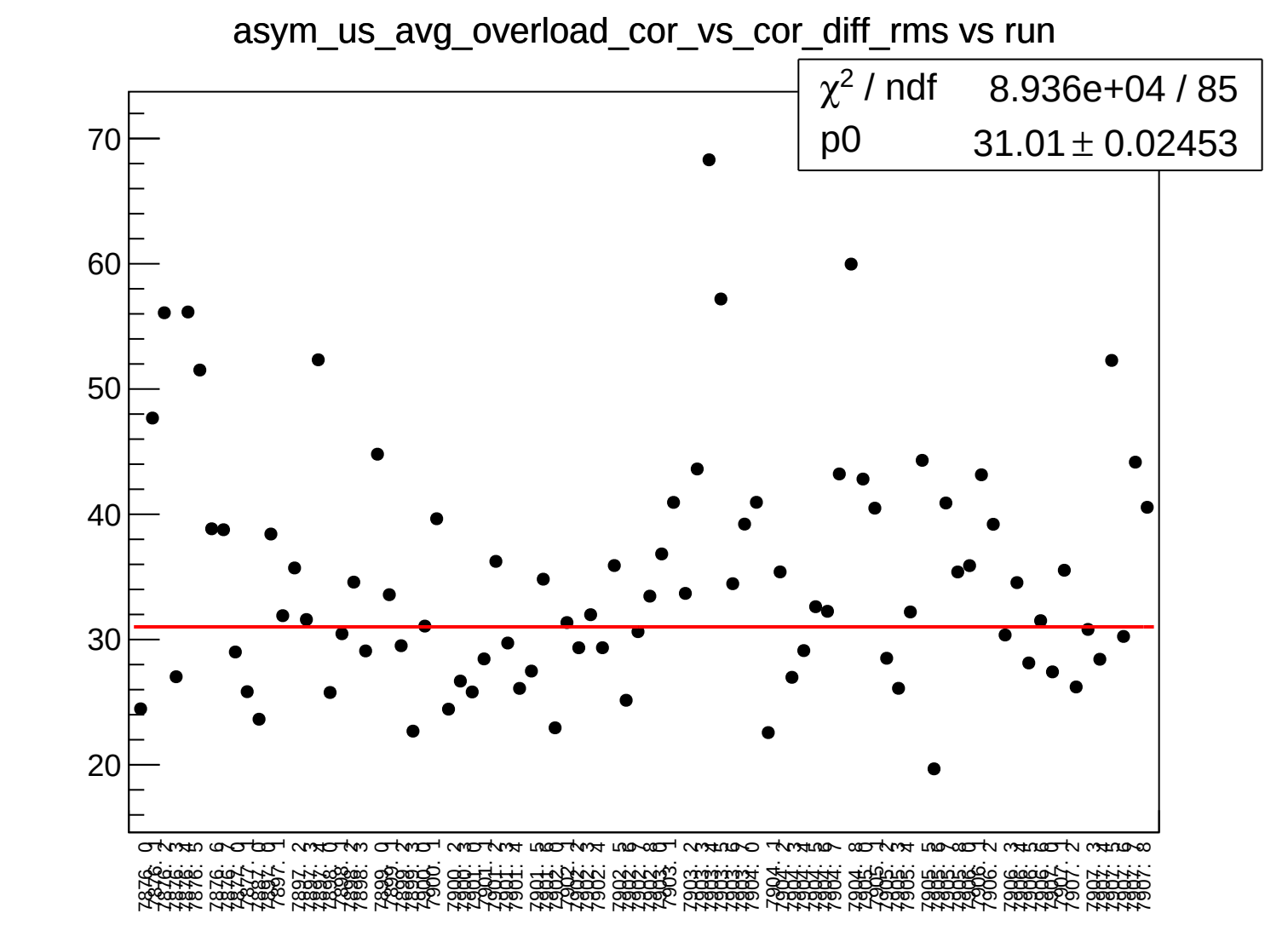

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.492e+05 / 85
p0 113.3 ± 0.09449
900
800
700
600
500
400
300
200
100

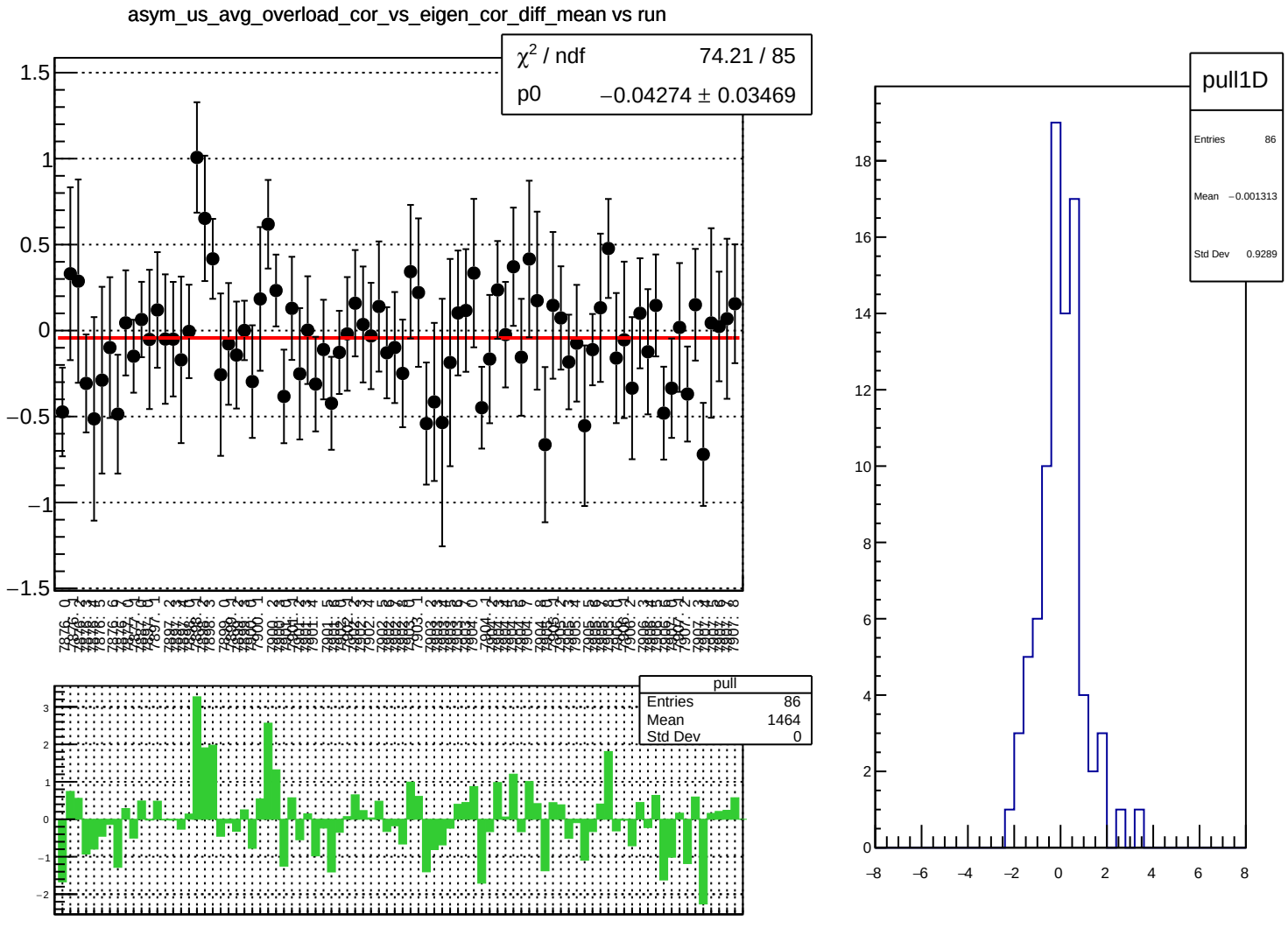

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.06 / 85
p0 −4.728e−14 ± 1.534e−13
pull
Entries 86
Mean 1.516
Std Dev 0

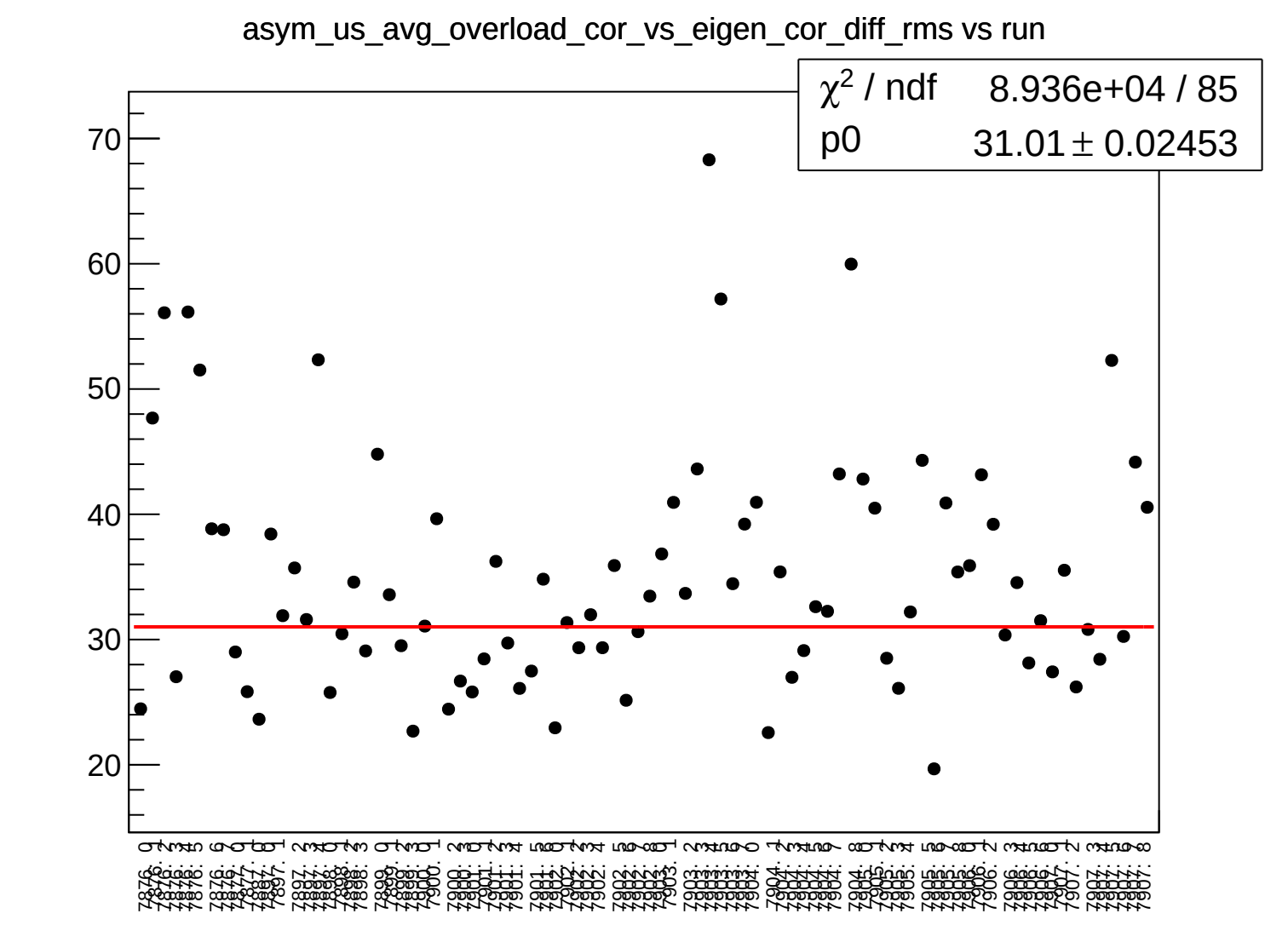

pull1D
Entries 86
Mean 0.1401
Std Dev 1.025

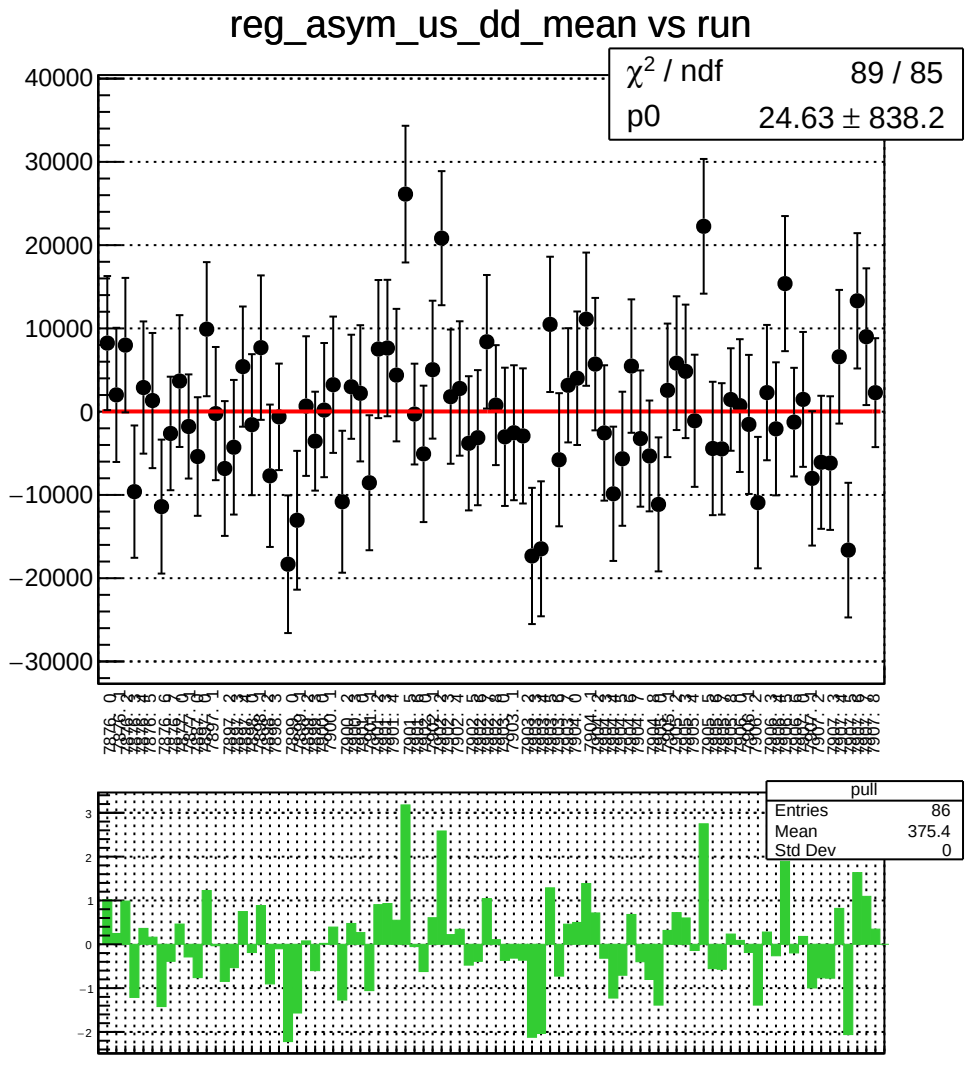

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.169e+06 / 85
p0 7.812e−11 ± 1.085e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

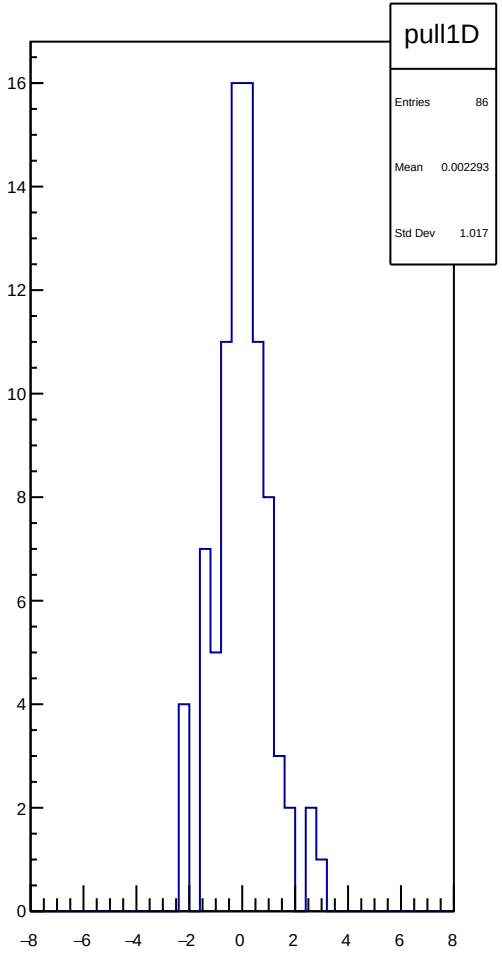

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 74.21 / 85
p0 −0.04274 ± 0.03469
pull
Entries 86
Mean 1464
Std Dev 0
pull1D
Entries 86
Mean −0.001313
Std Dev 0.9289

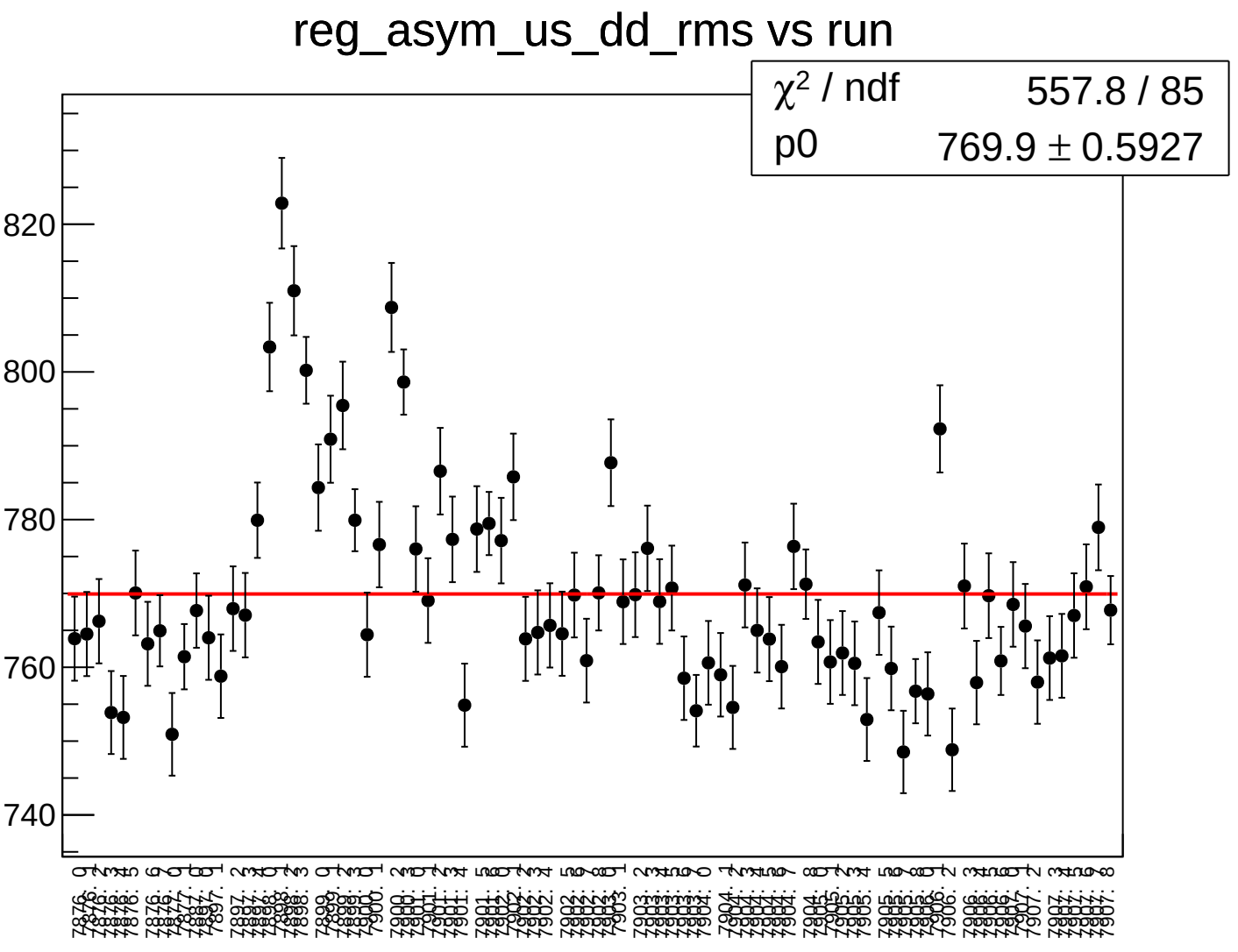

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 8.936e+04 / 85
p0 31.01 ± 0.02453
70
60
50
40
30
20

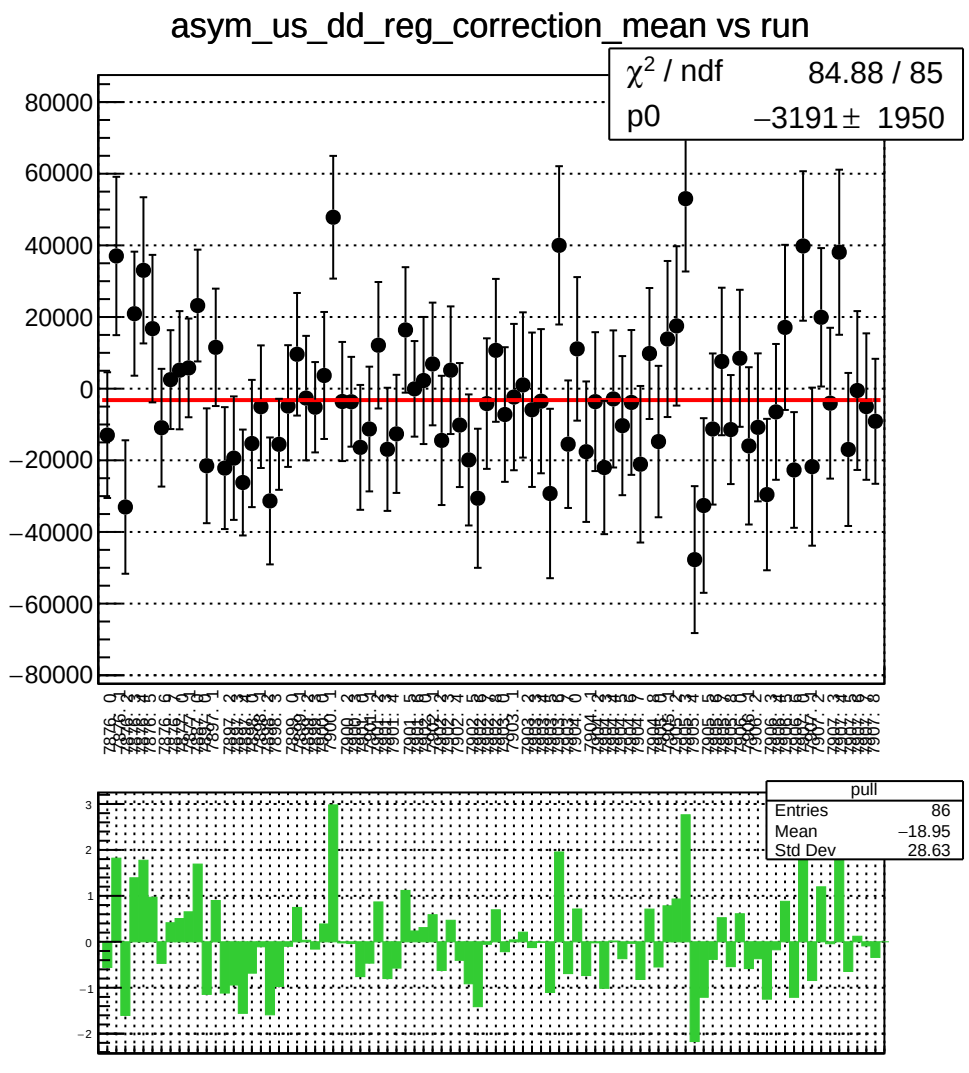

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.21 / 85
p0 −0.04274 ± 0.03469
pull
Entries 86
Mean 1464
Std Dev 0
pull1D
Entries 86
Mean −0.001313
Std Dev 0.9289

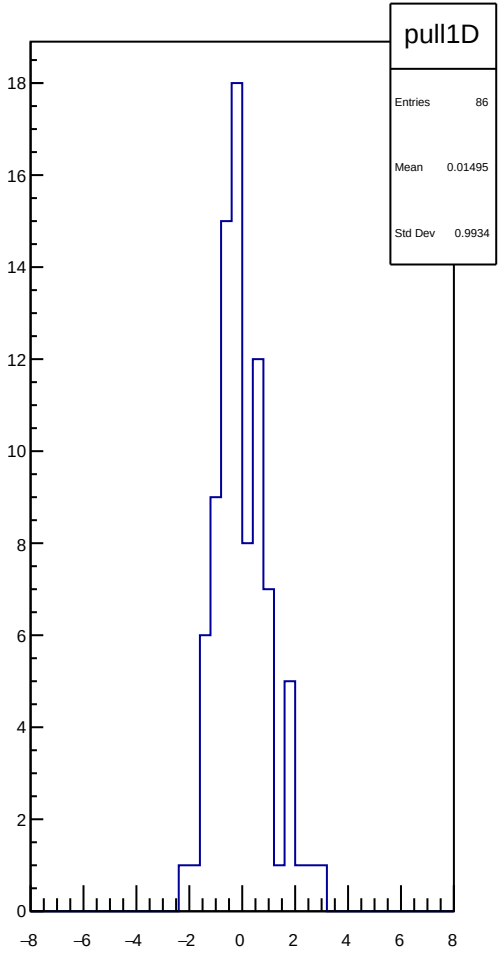

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.936e+04 / 85
p0 31.01 ± 0.02453
70
60
50
40
30
20

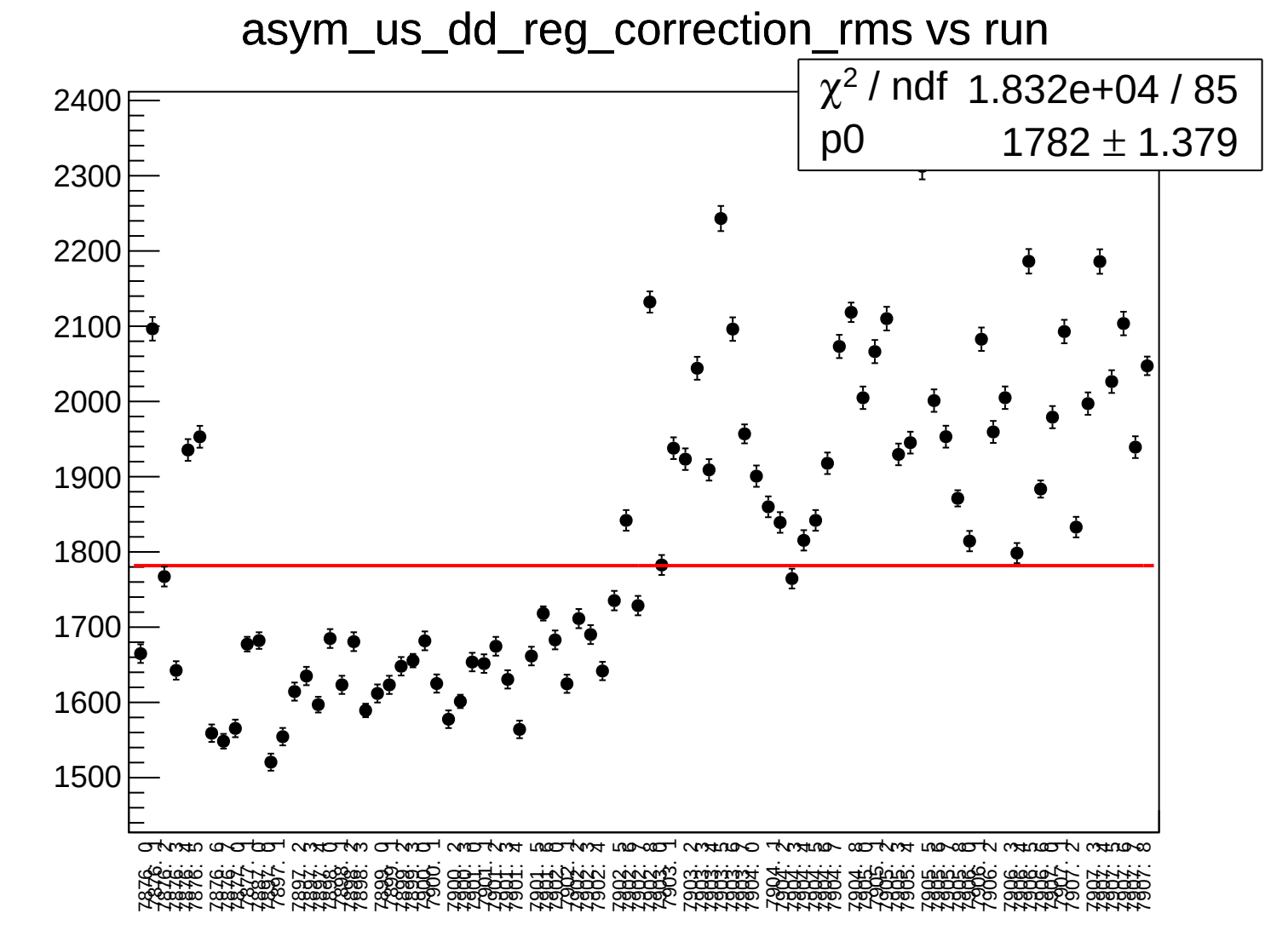

reg_asym_us_dd_mean vs run
χ^2 / ndf 89 / 85
p0 24.63 ± 838.2
pull
Entries 86
Mean 375.4
Std Dev 0

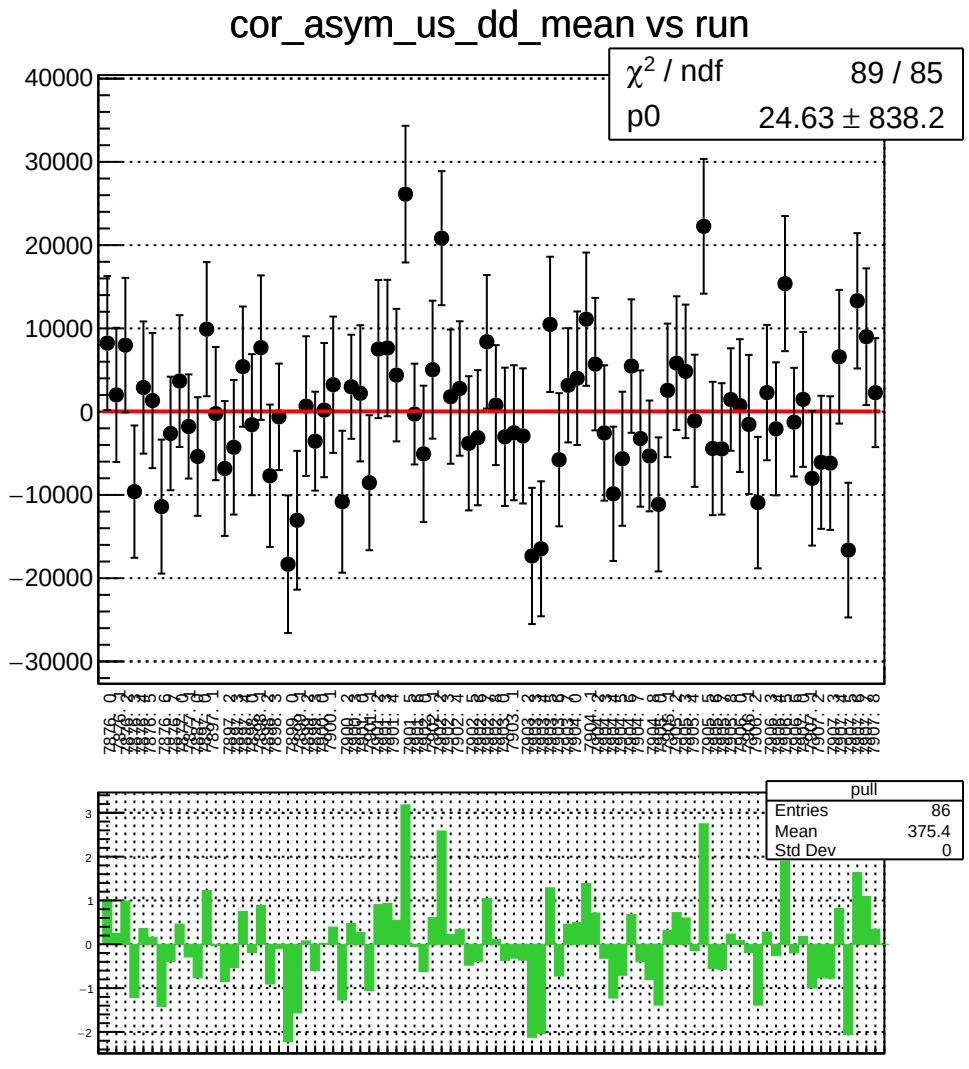

pull1D
Entries 86
Mean 0.002293
Std Dev 1.017

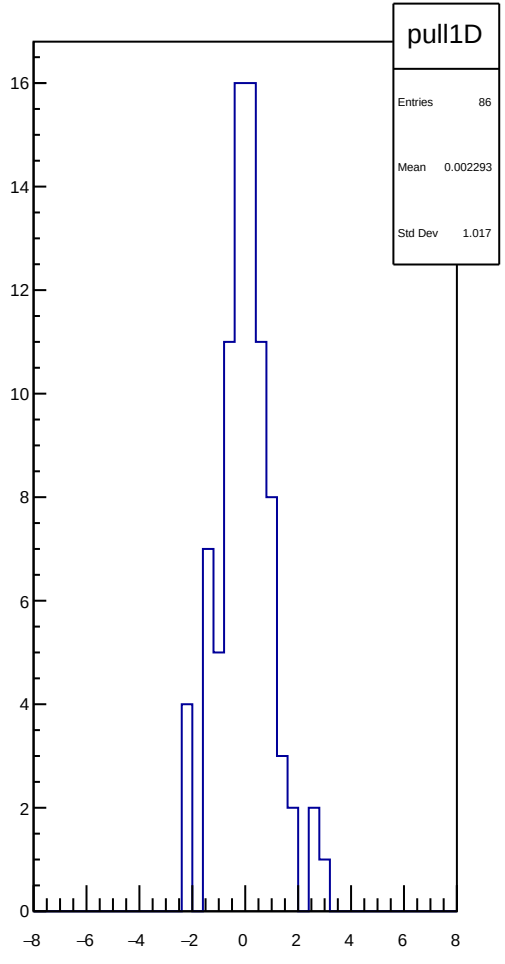

reg_asym_us_dd_rms vs run
χ² / ndf 557.8 / 85
p0 769.9 ± 0.5927
820
800
780
760
740

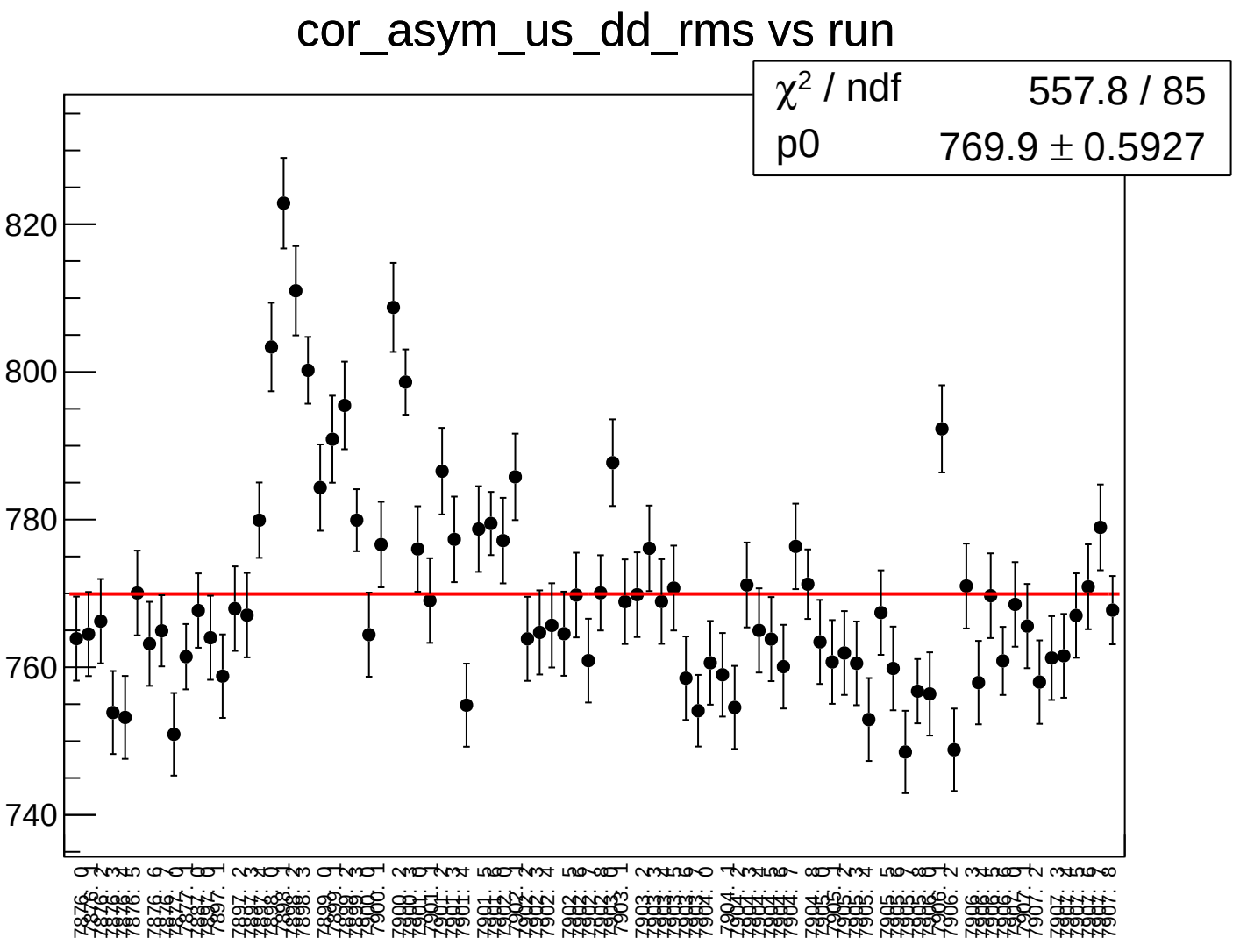

asym_us_dd_reg_correction_mean vs run
χ² / ndf 84.88 / 85
p0 −3191 ± 1950
pull
Entries 86
Mean −18.95
Std Dev 28.63

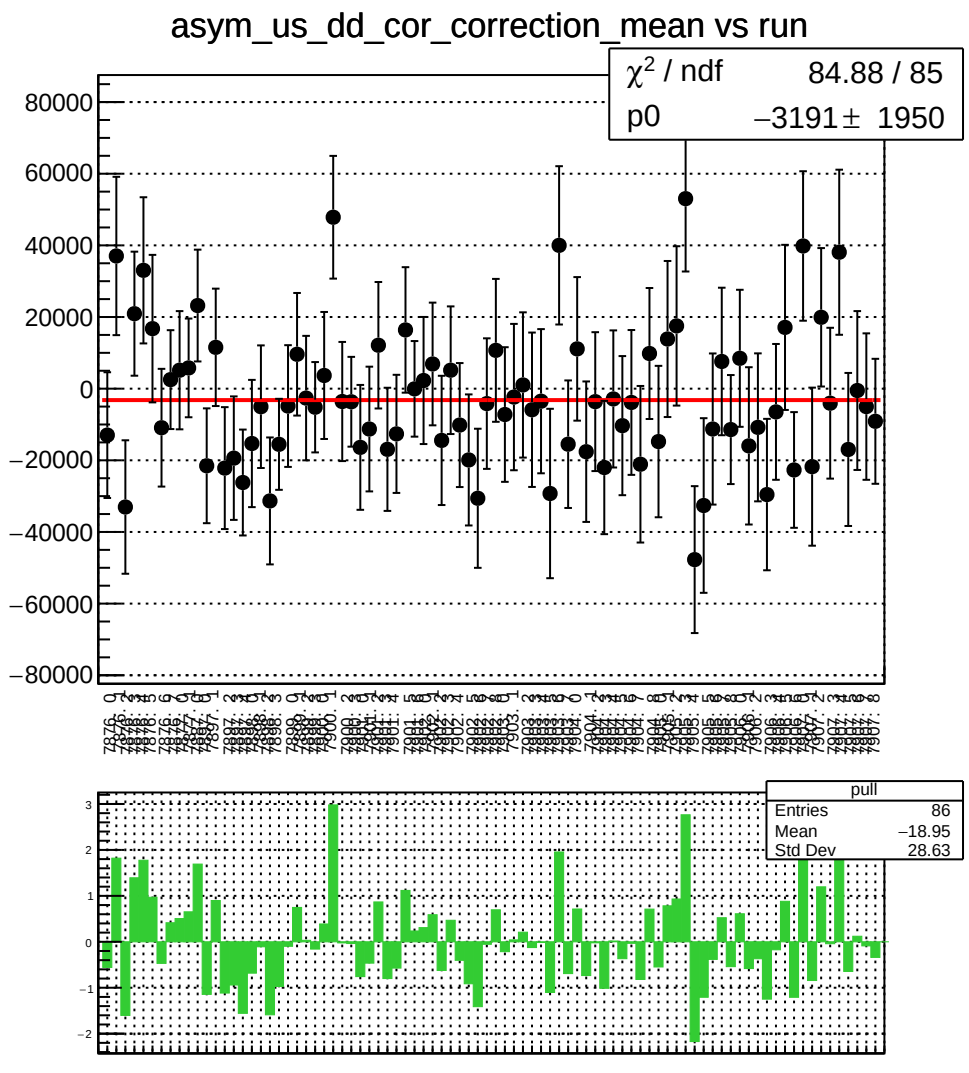

pull1D
Entries 86
Mean 0.01495
Std Dev 0.9934

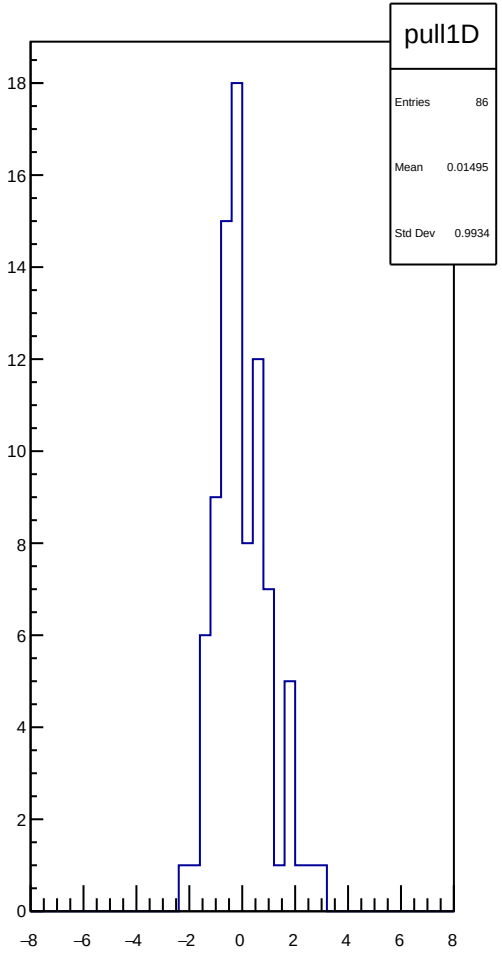

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.832e+04 / 85
p0 1782 ± 1.379
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

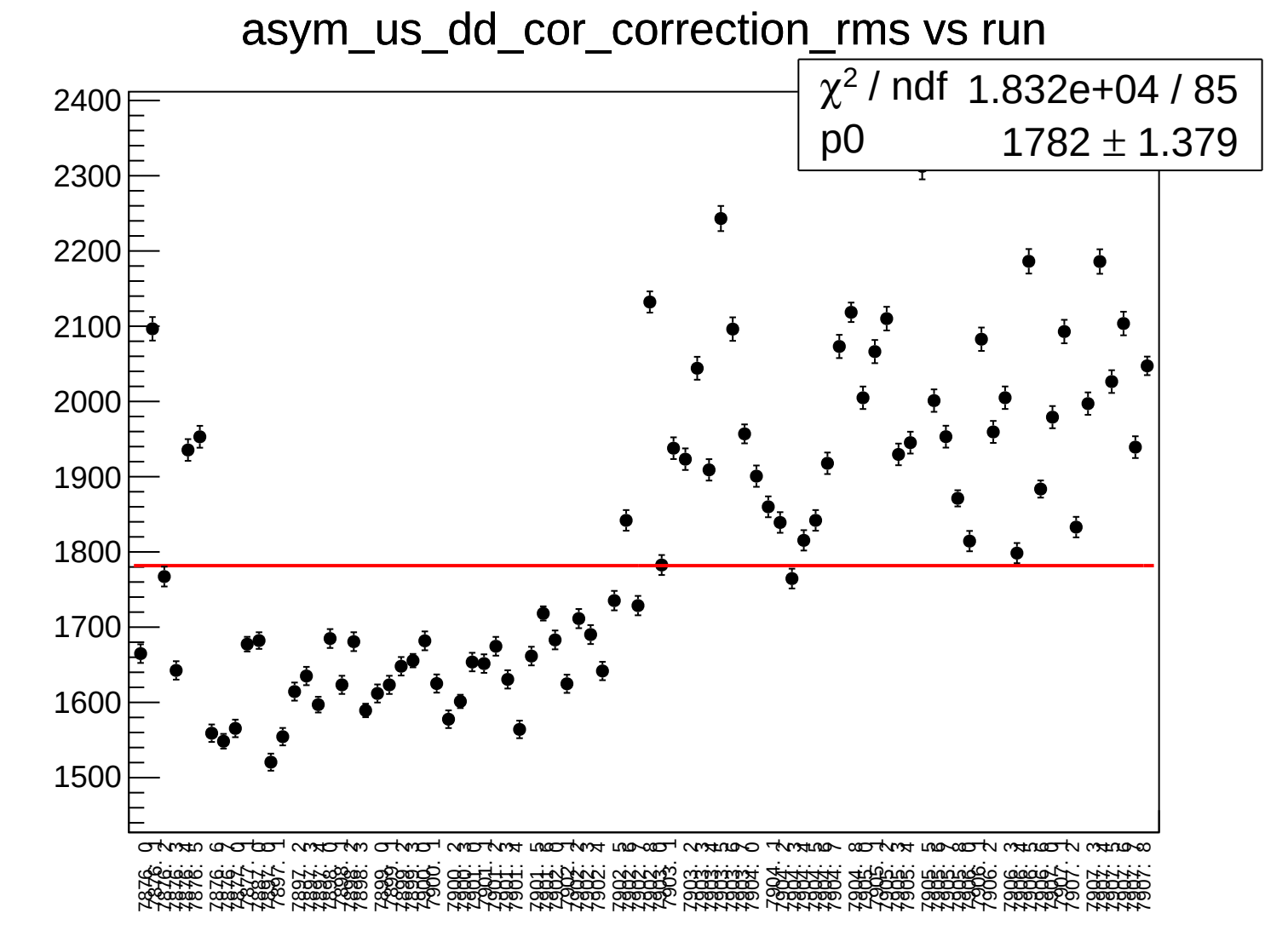

cor_asym_us_dd_mean vs run
χ² / ndf 89 / 85
p0 24.63 ± 838.2
pull
Entries 86
Mean 375.4
Std Dev 0

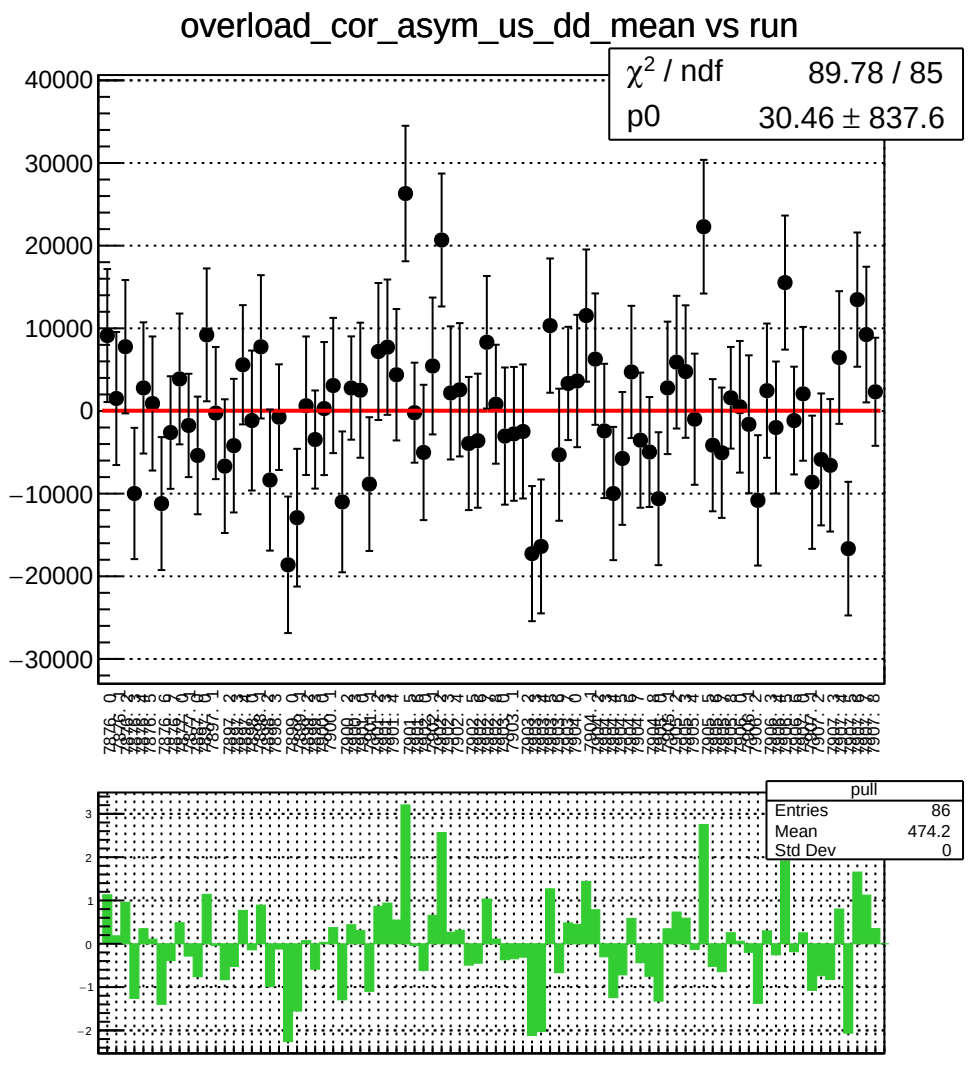

pull1D
Entries 86
Mean 0.002293
Std Dev 1.017

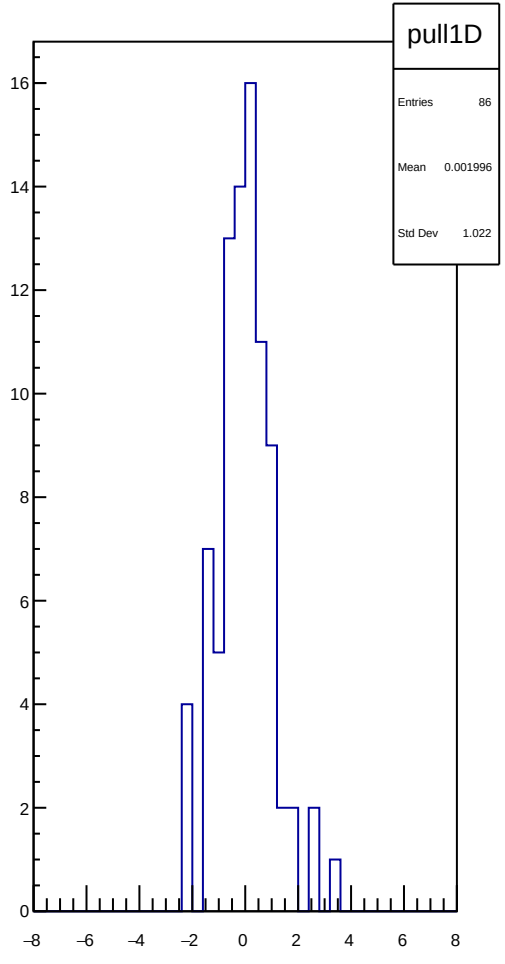

cor_asym_us_dd_rms vs run
χ² / ndf 557.8 / 85
p0 769.9 ± 0.5927
820
800
780
760
740

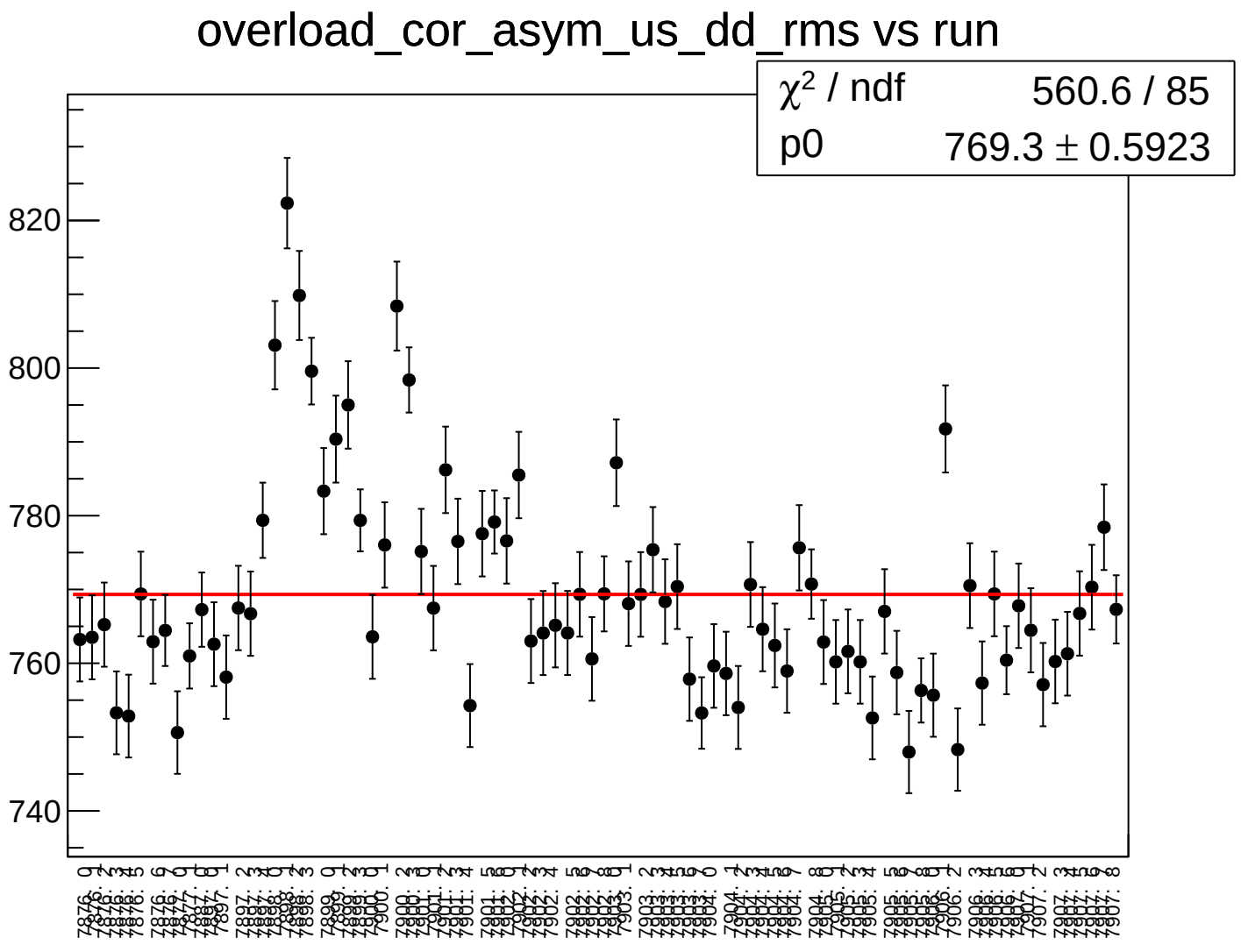

asym_us_dd_cor_correction_mean vs run
χ² / ndf 84.88 / 85
p0 −3191 ± 1950
pull
Entries 86
Mean −18.95
Std Dev 28.63

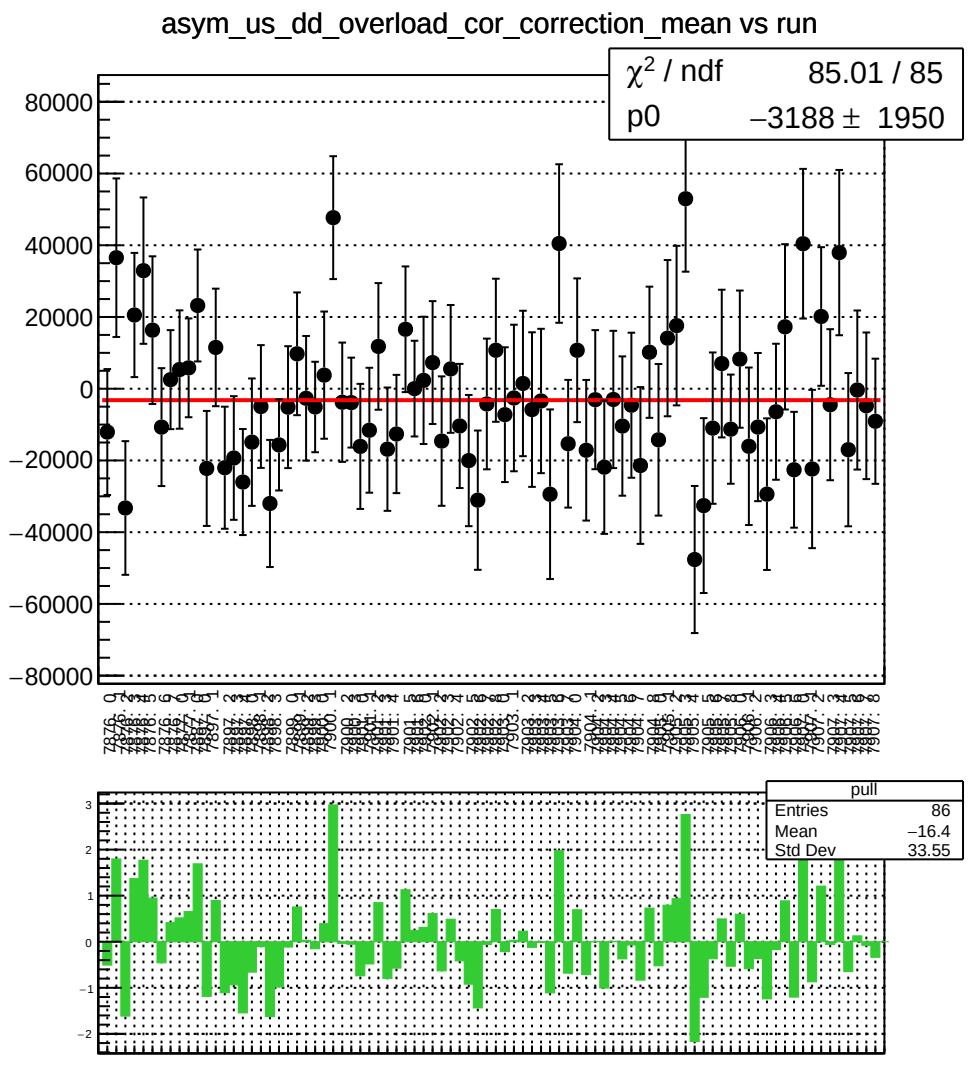

pull1D
Entries 86
Mean 0.01495
Std Dev 0.9934

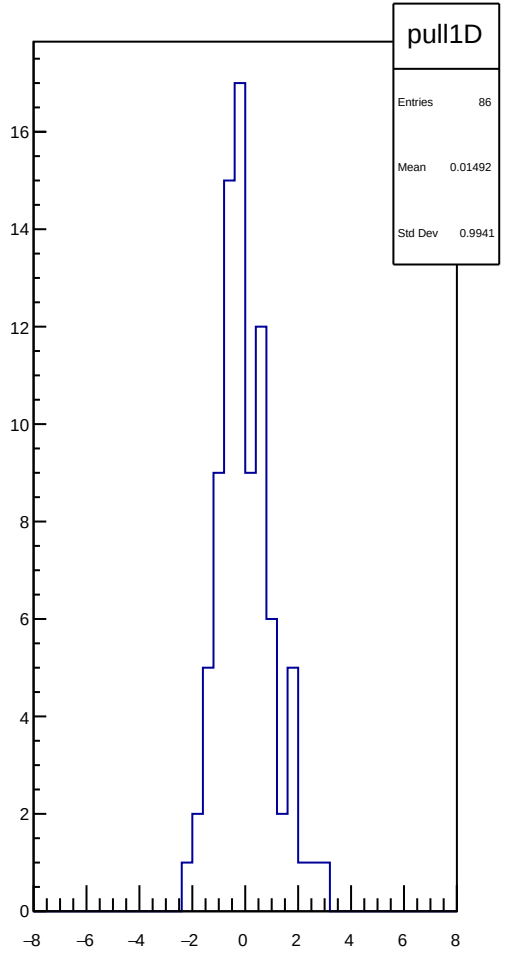

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.832e+04 / 85
p0 1782 ± 1.379
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

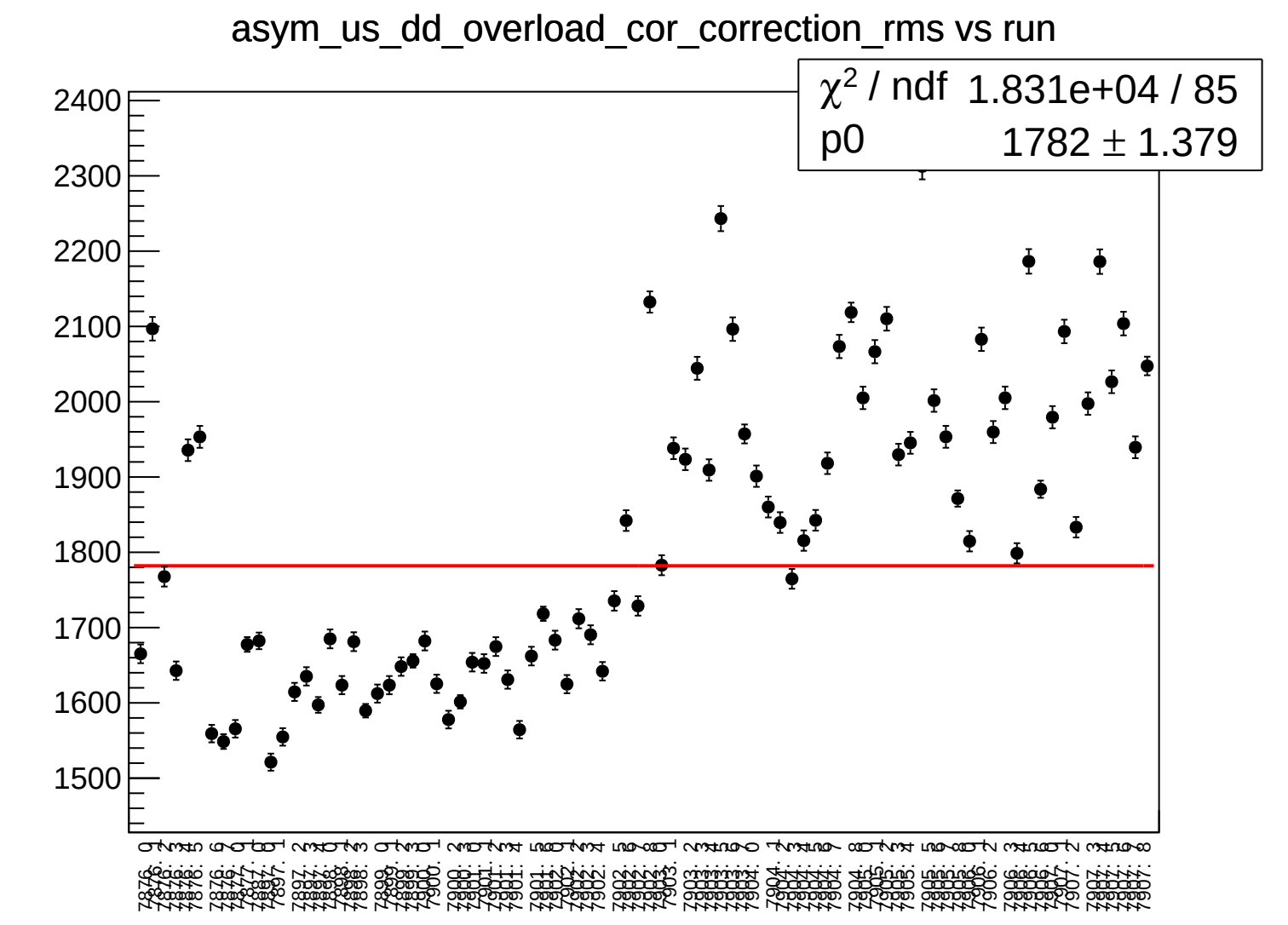

overload_cor_asym_us_dd_mean vs run
χ² / ndf 89.78 / 85
p0 30.46 ± 837.6
pull
Entries 86
Mean 474.2
Std Dev 0

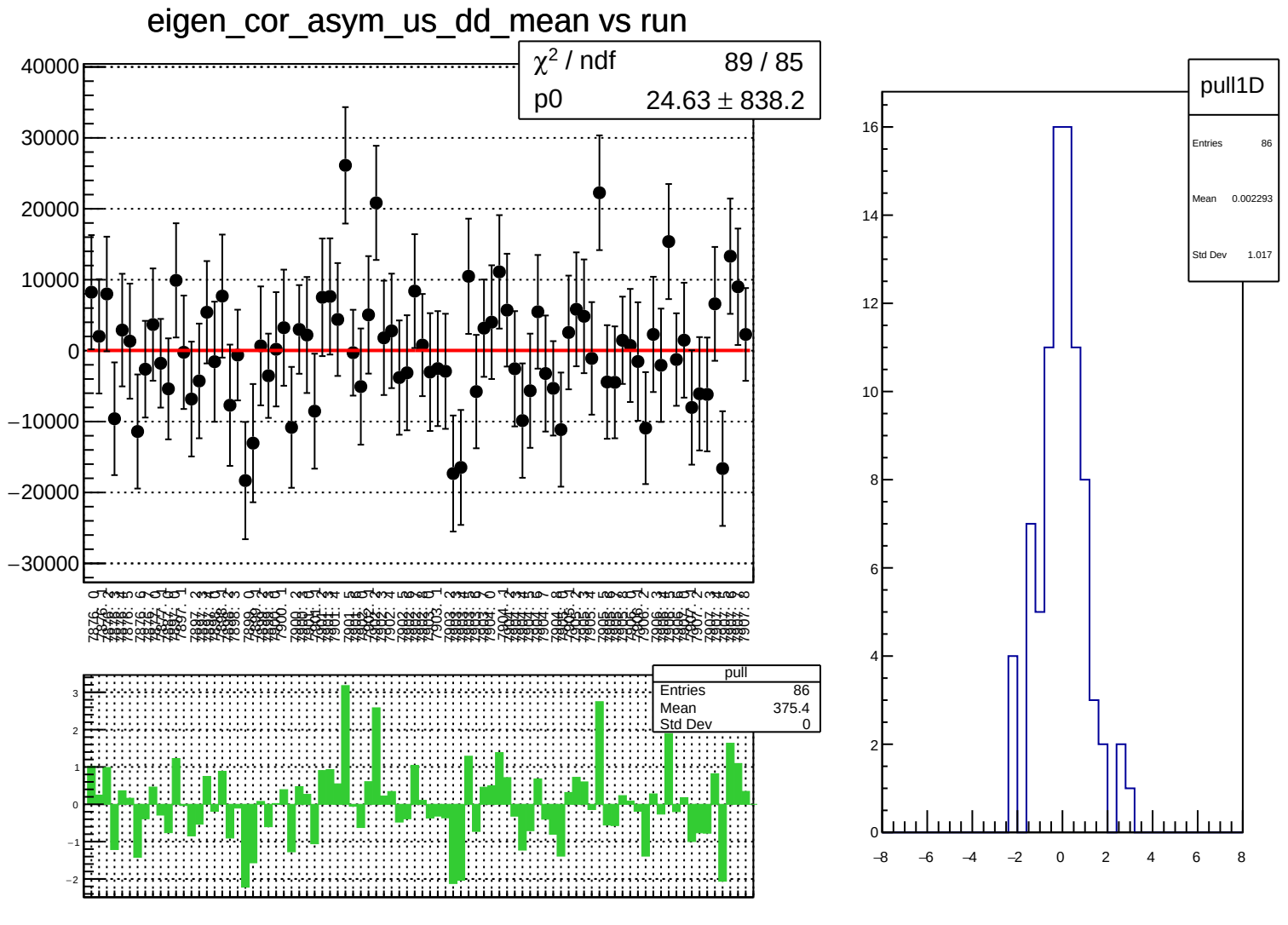

pull1D
Entries 86
Mean 0.001996
Std Dev 1.022

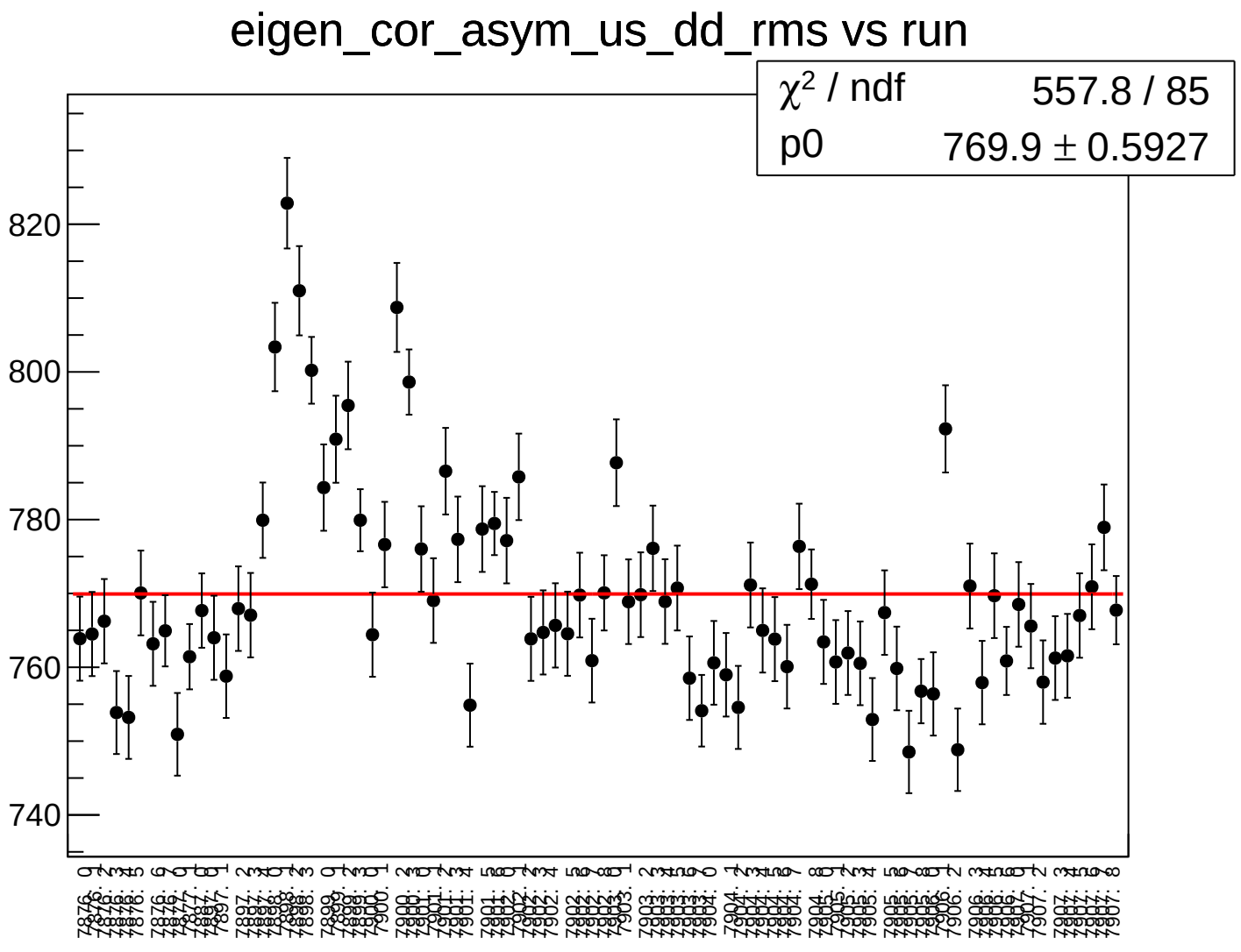

overload_cor_asym_us_dd_rms vs run
χ² / ndf 560.6 / 85
p0 769.3 ± 0.5923
820
800
780
760
740

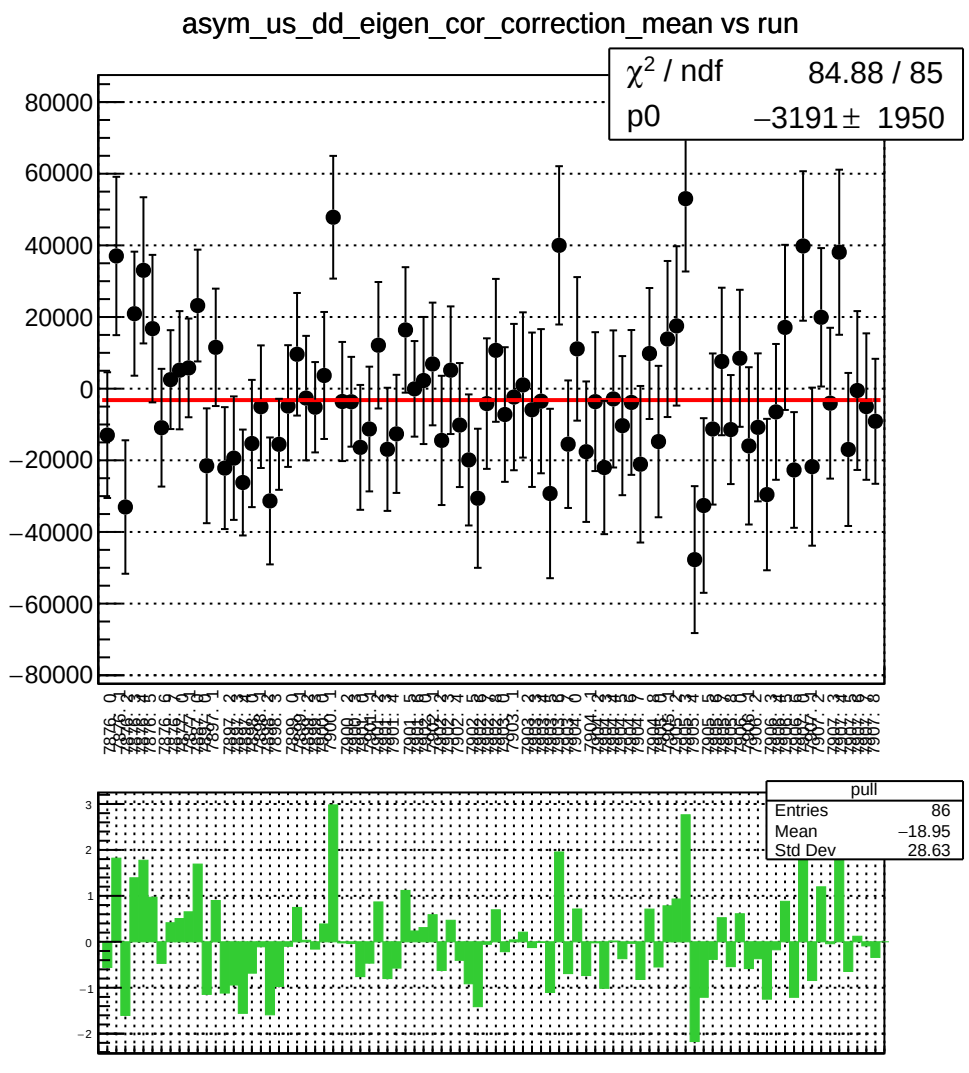

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 85.01 / 85
p0 −3188 ± 1950
pull
Entries 86
Mean −16.4
Std Dev 33.55

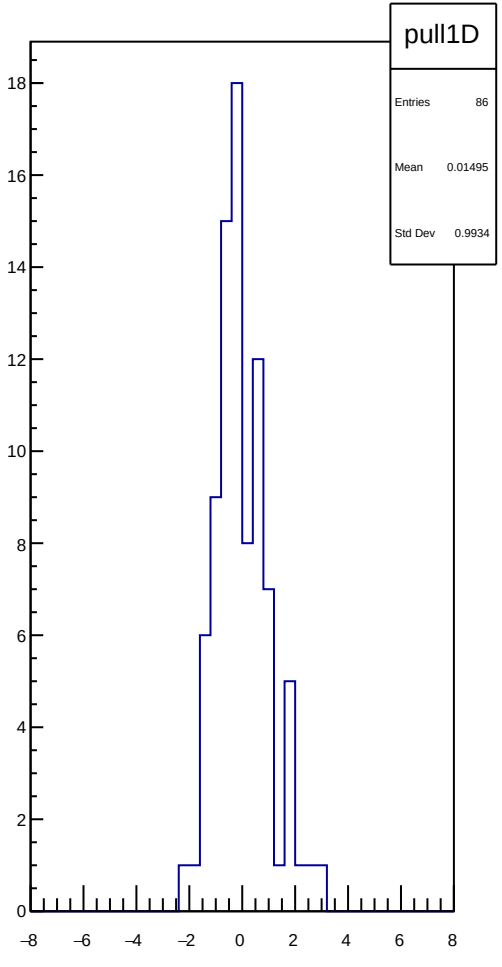

pull1D
Entries 86
Mean 0.01492
Std Dev 0.9941

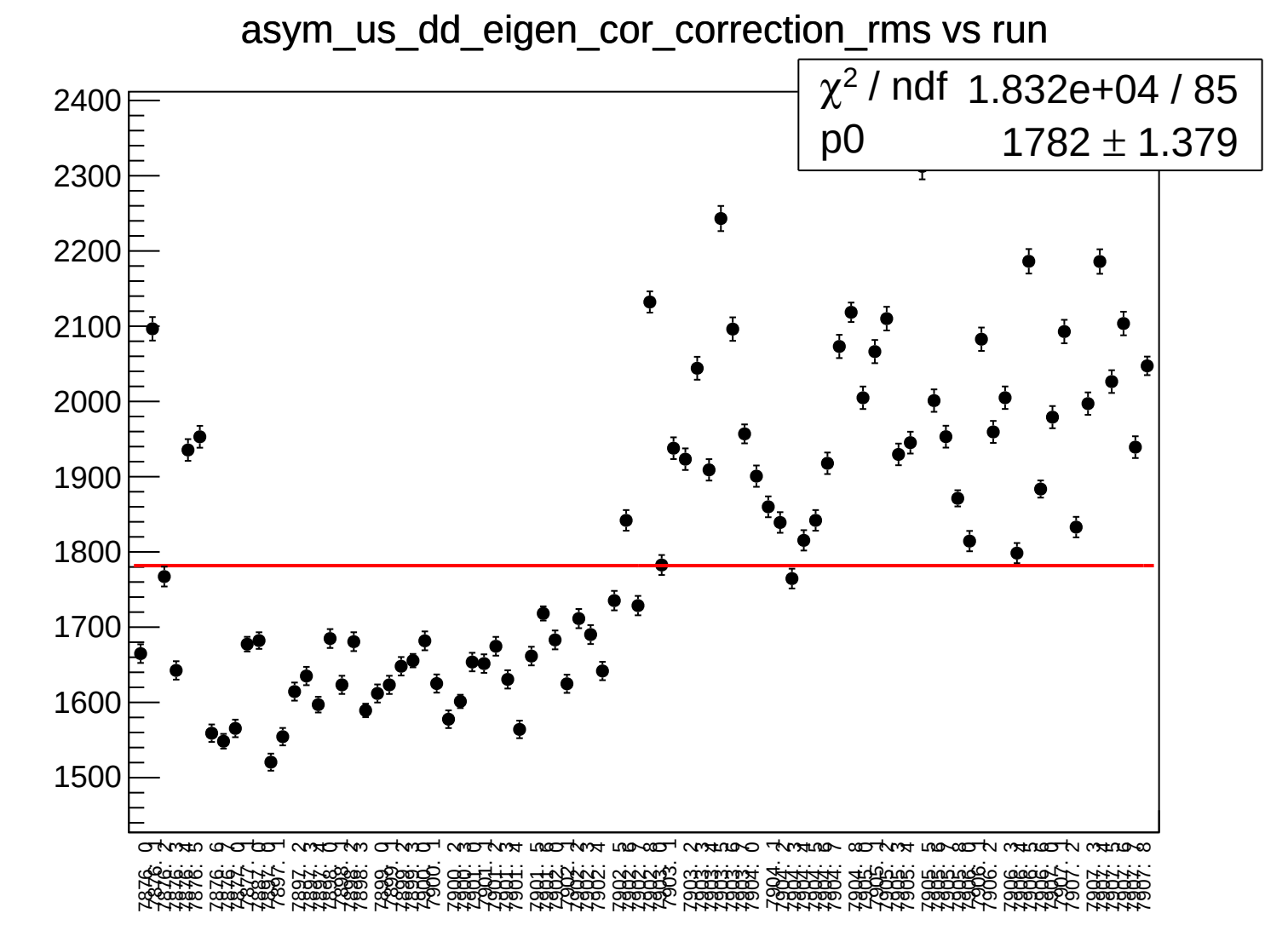

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.831e+04 / 85
p0 1782 ± 1.379
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

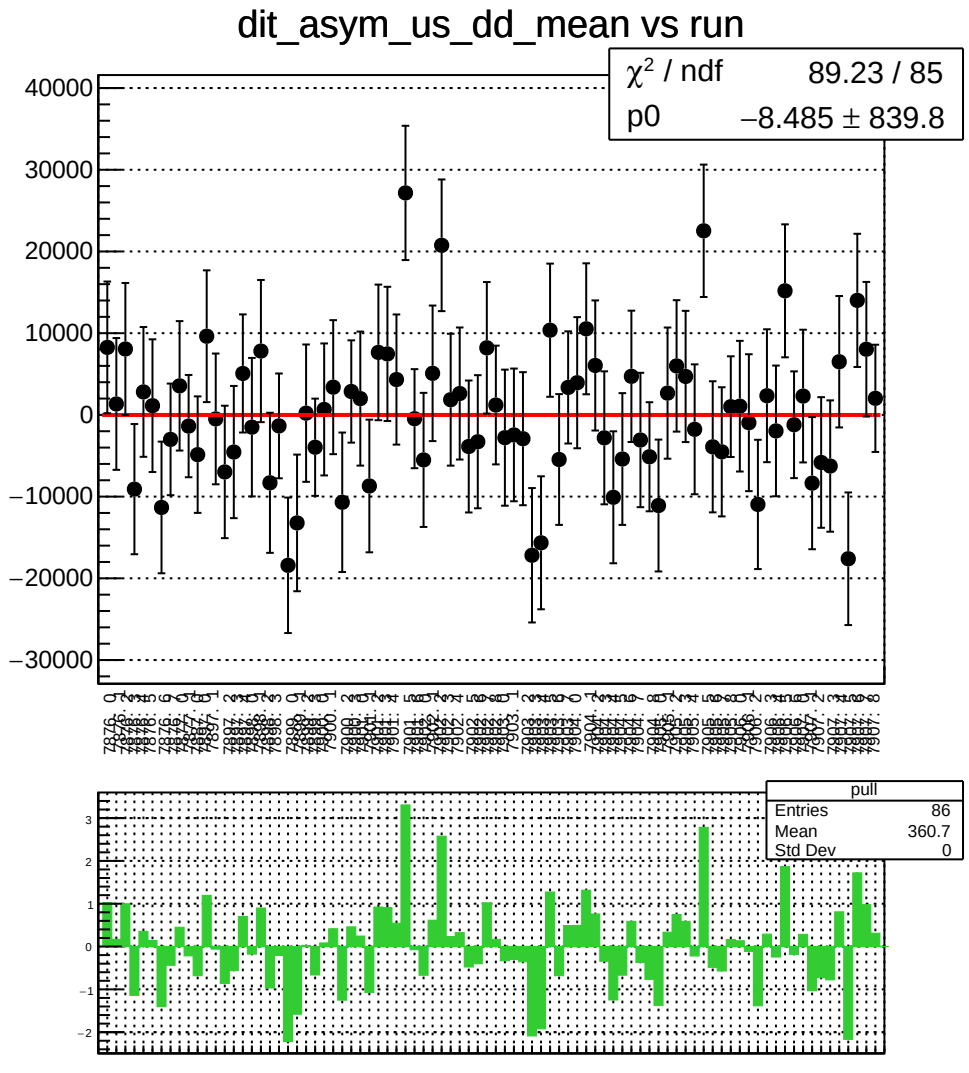

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 89 / 85
p0 24.63 ± 838.2
pull
Entries 86
Mean 375.4
Std Dev 0
pull1D
Entries 86
Mean 0.002293
Std Dev 1.017

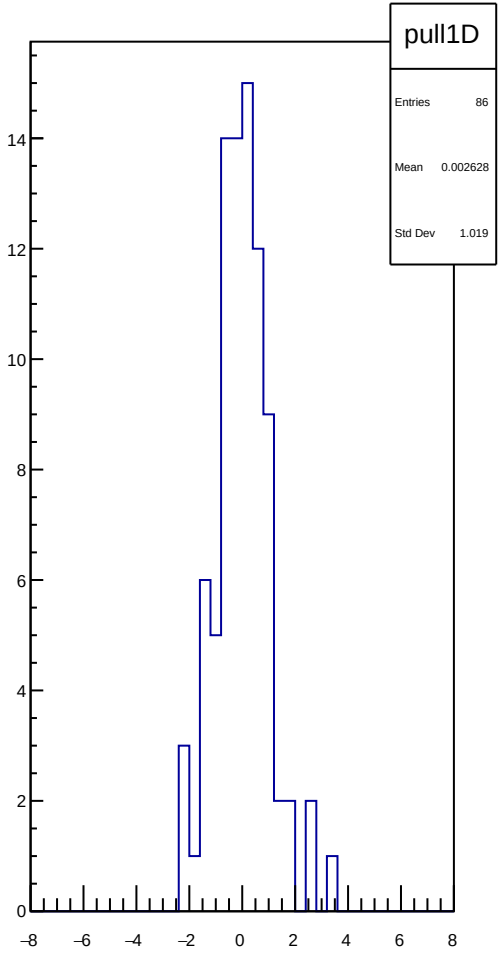

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 557.8 / 85
p0 769.9 ± 0.5927
820
800
780
760
740

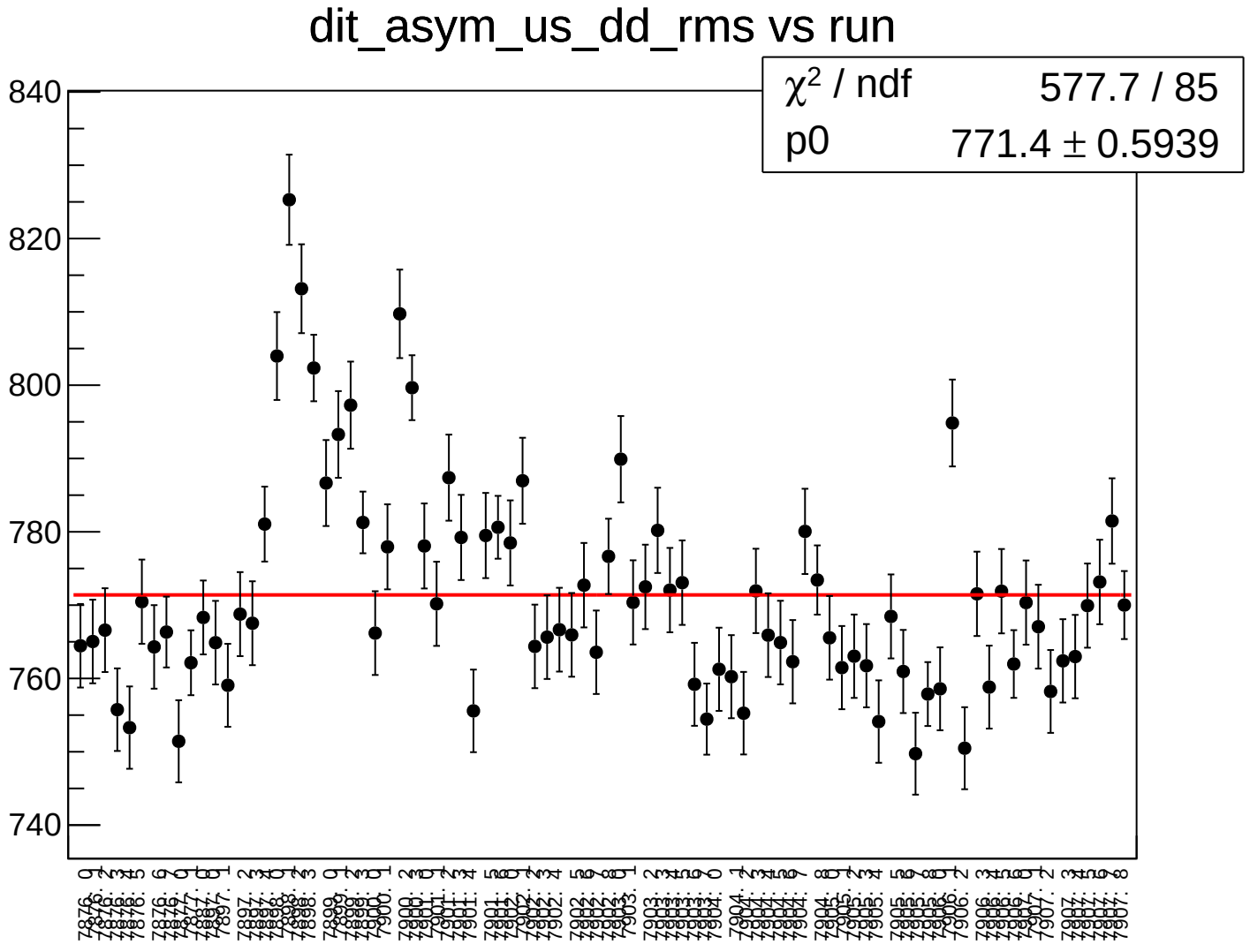

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.88 / 85
p0 −3191 ± 1950
pull
Entries 86
Mean −18.95
Std Dev 28.63

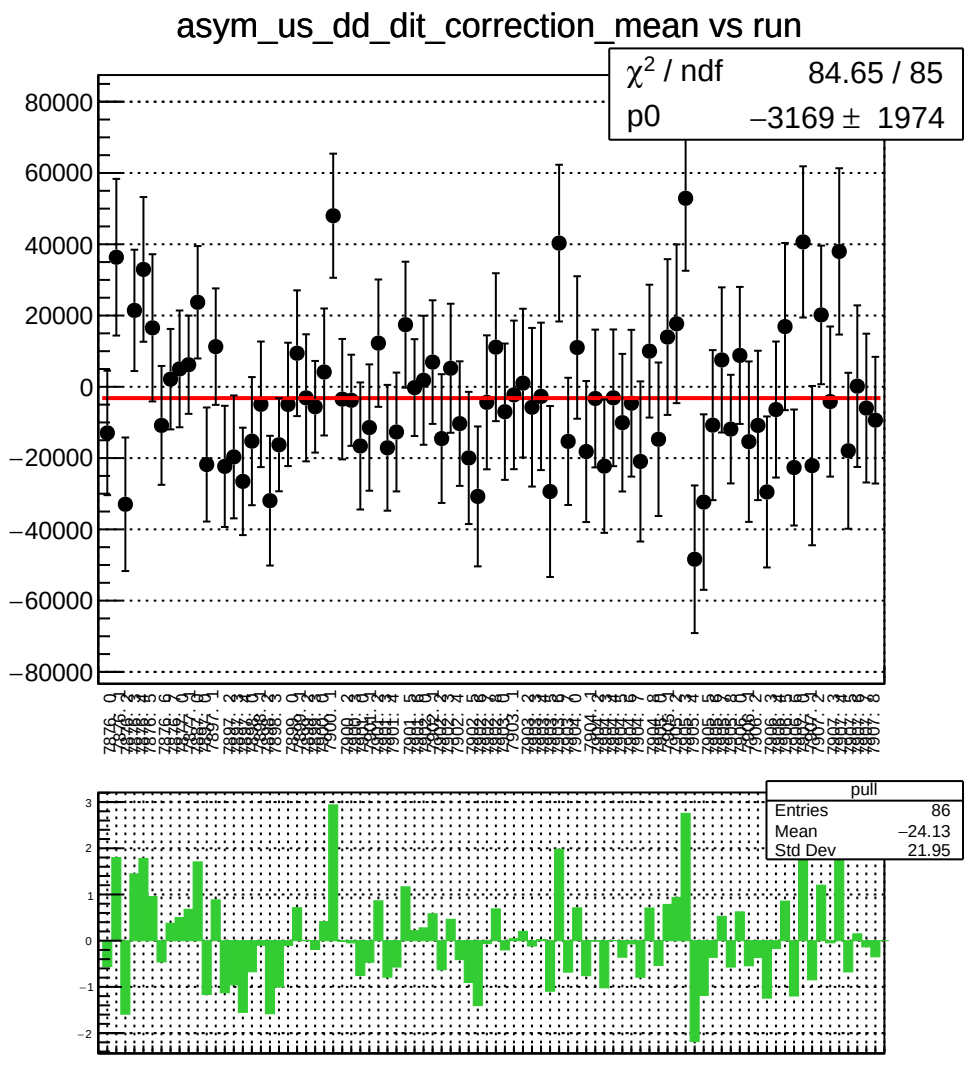

pull1D
Entries 86
Mean 0.01495
Std Dev 0.9934

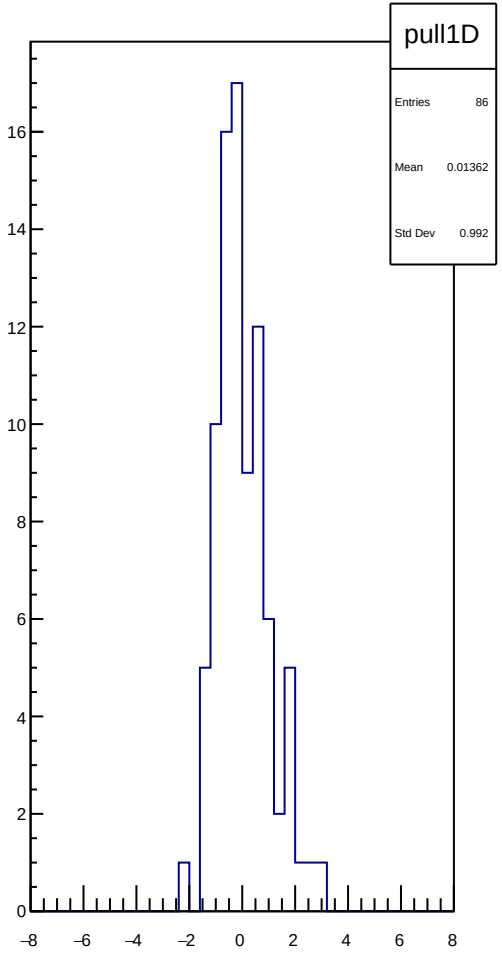

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.832e+04 / 85
p0 1782 ± 1.379
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

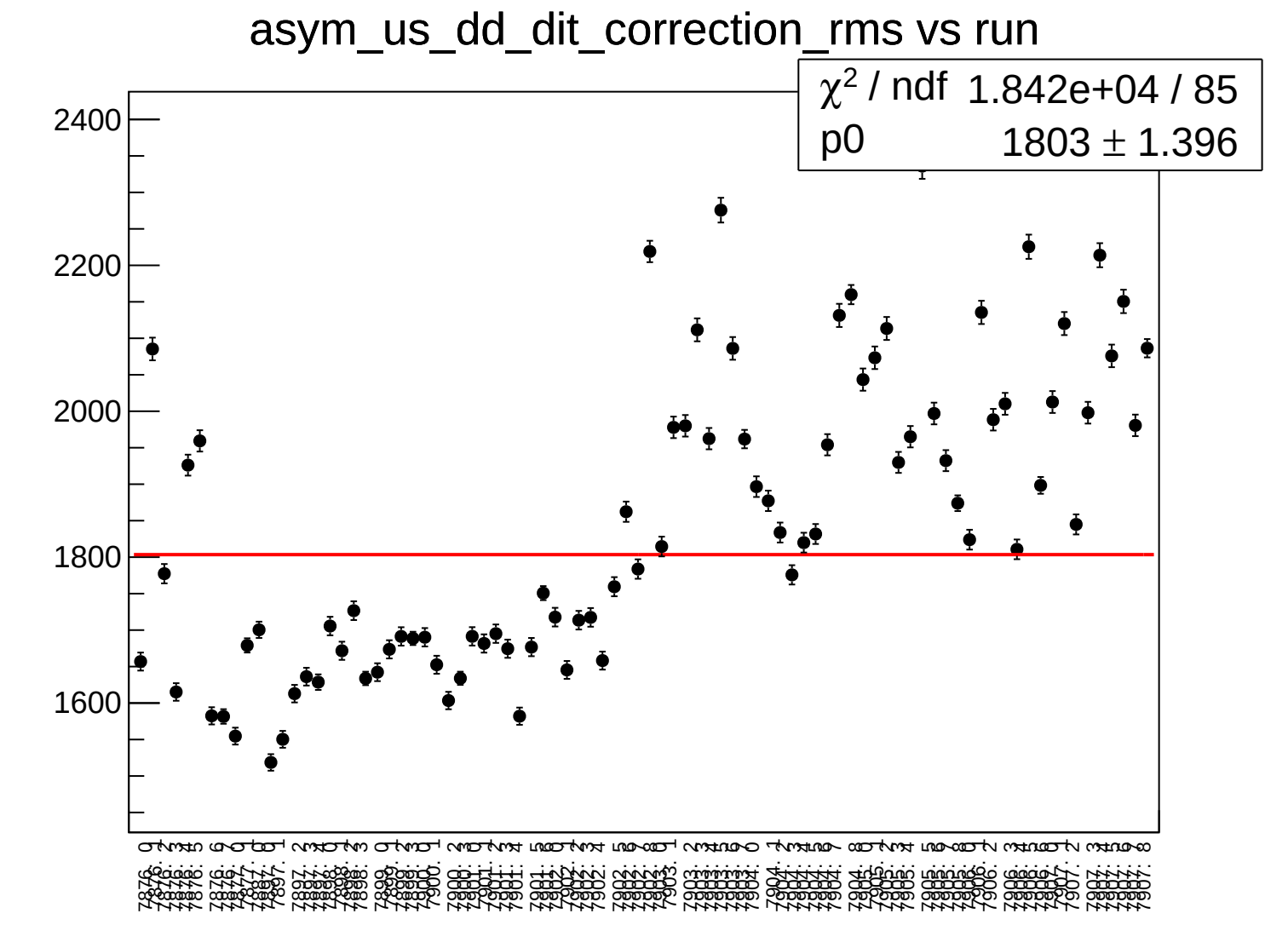

dit_asym_us_dd_mean vs run
χ² / ndf 89.23 / 85
p0 −8.485 ± 839.8
pull
Entries 86
Mean 360.7
Std Dev 0

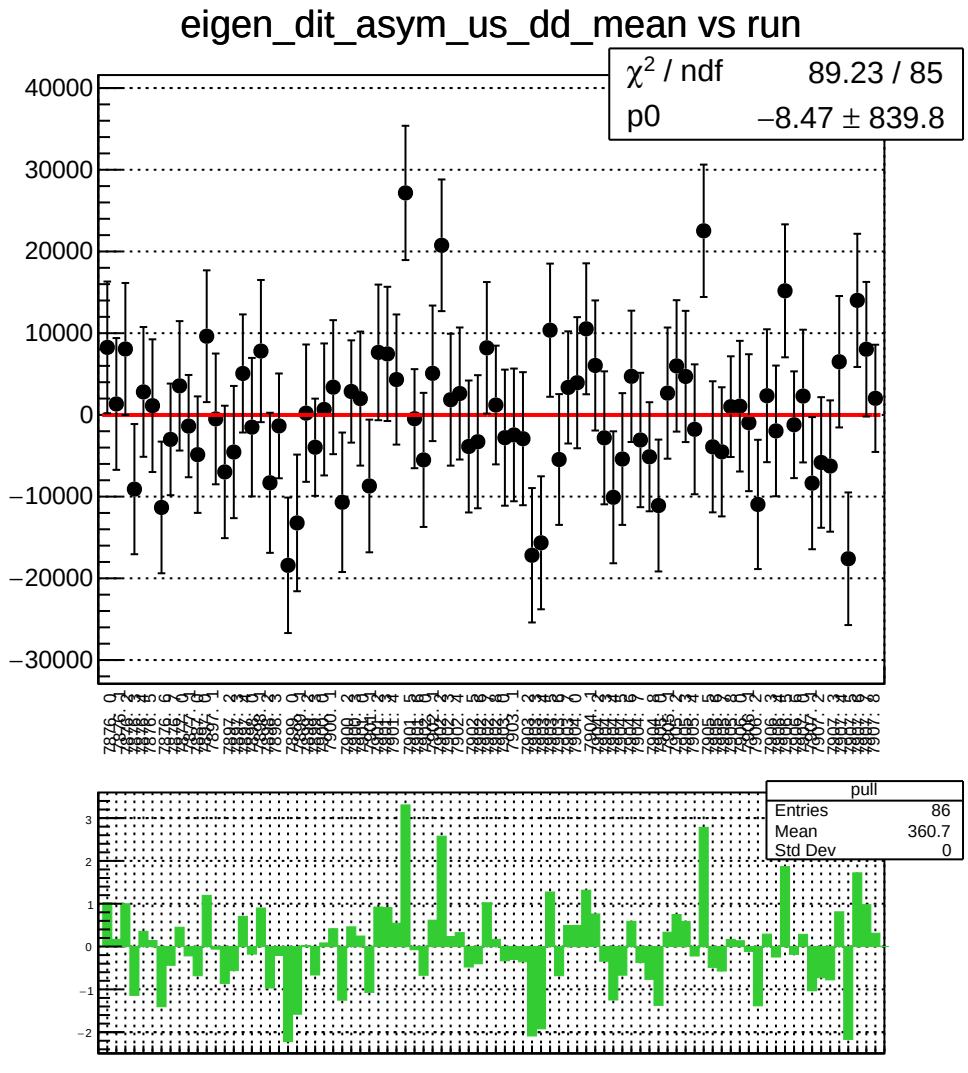

pull1D
Entries 86
Mean 0.002628
Std Dev 1.019

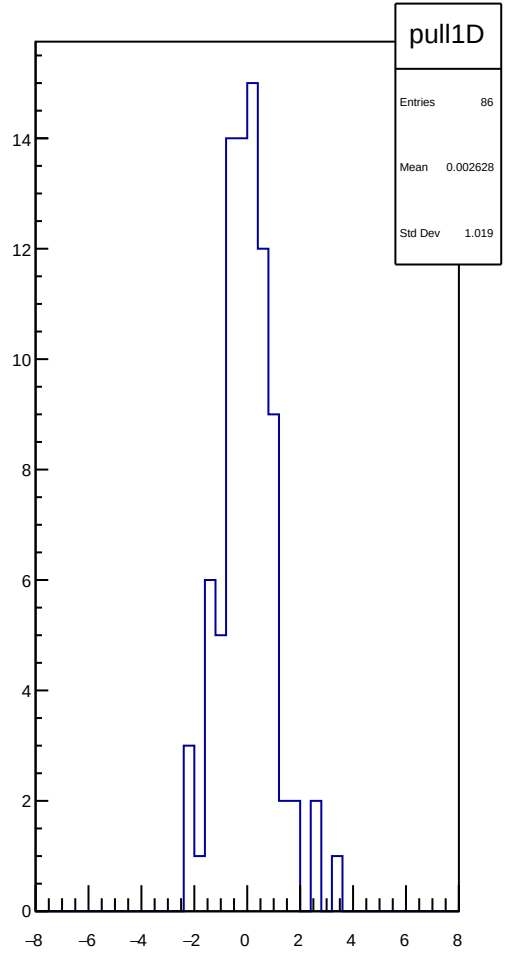

dit_asym_us_dd_rms vs run
χ^2 / ndf 577.7 / 85
p0 771.4 ± 0.5939
840
820
800
780
760
740

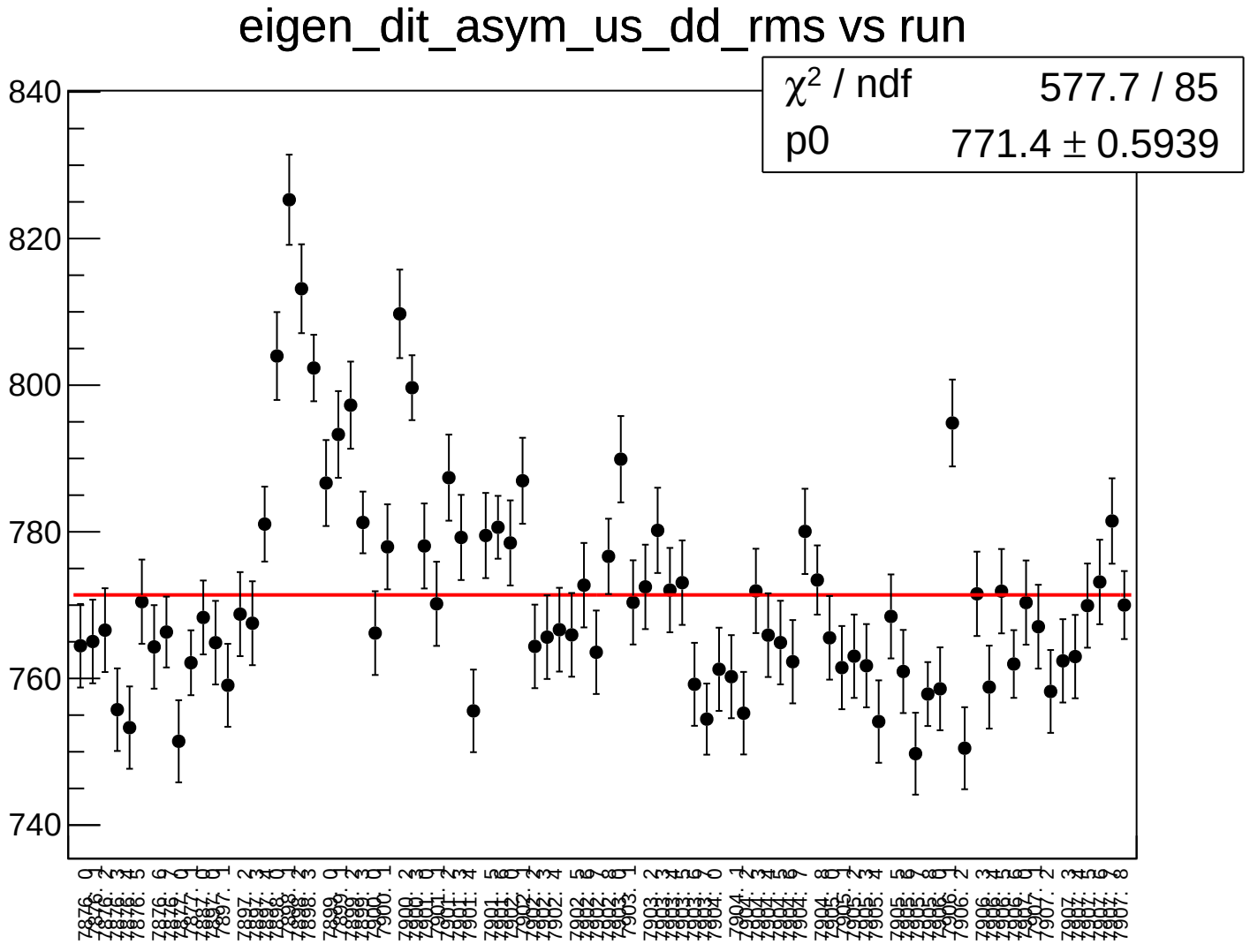

asym_us_dd_dit_correction_mean vs run
χ² / ndf 84.65 / 85
p0 −3169 ± 1974
pull
Entries 86
Mean −24.13
Std Dev 21.95

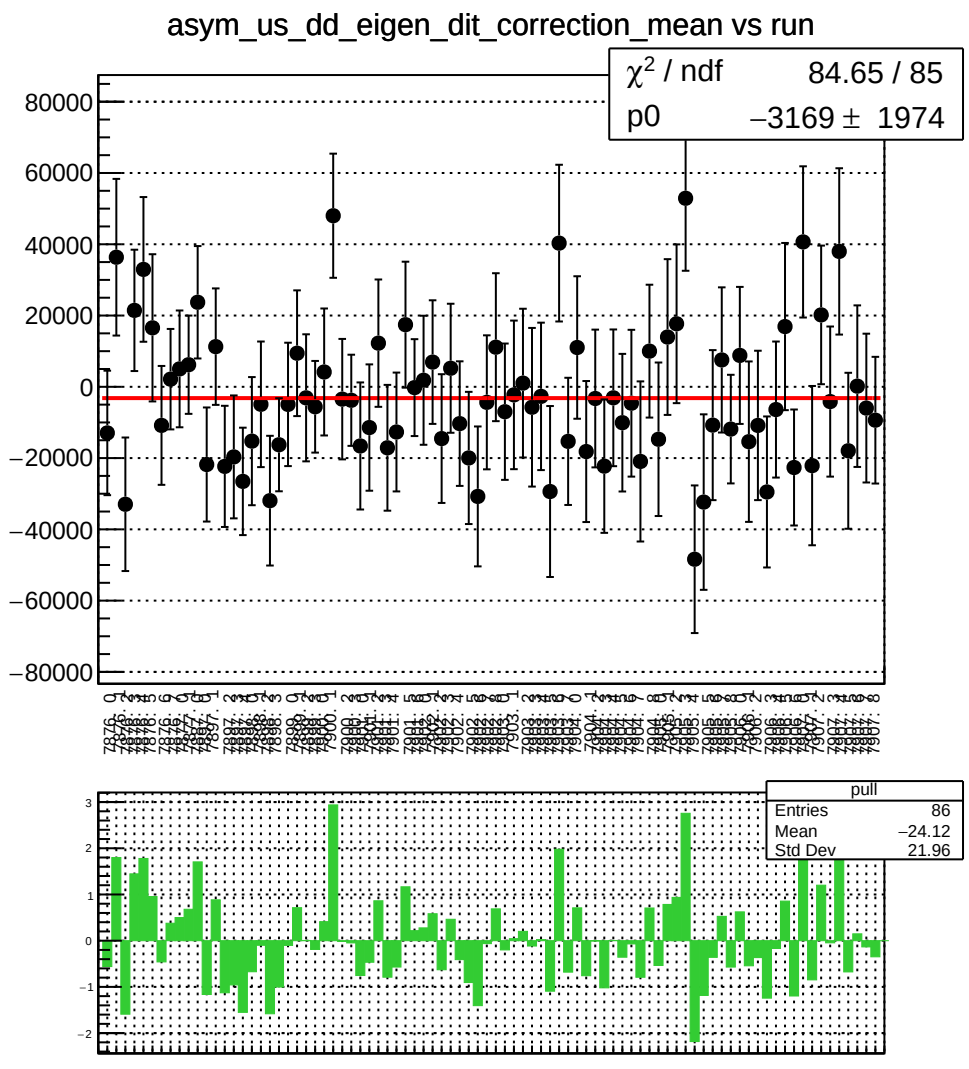

pull1D
Entries 86
Mean 0.01362
Std Dev 0.992

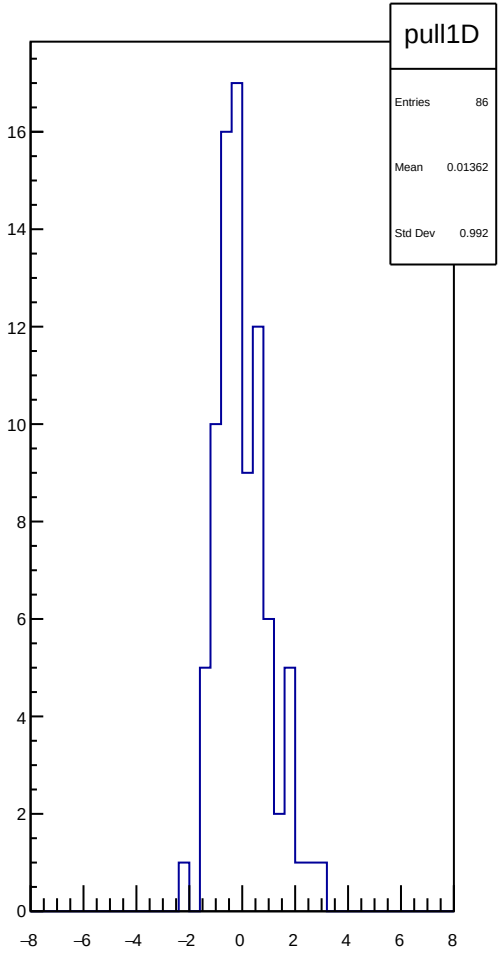

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.842e+04 / 85
p0 1803 ± 1.396
2400
2200
2000
1800
1600

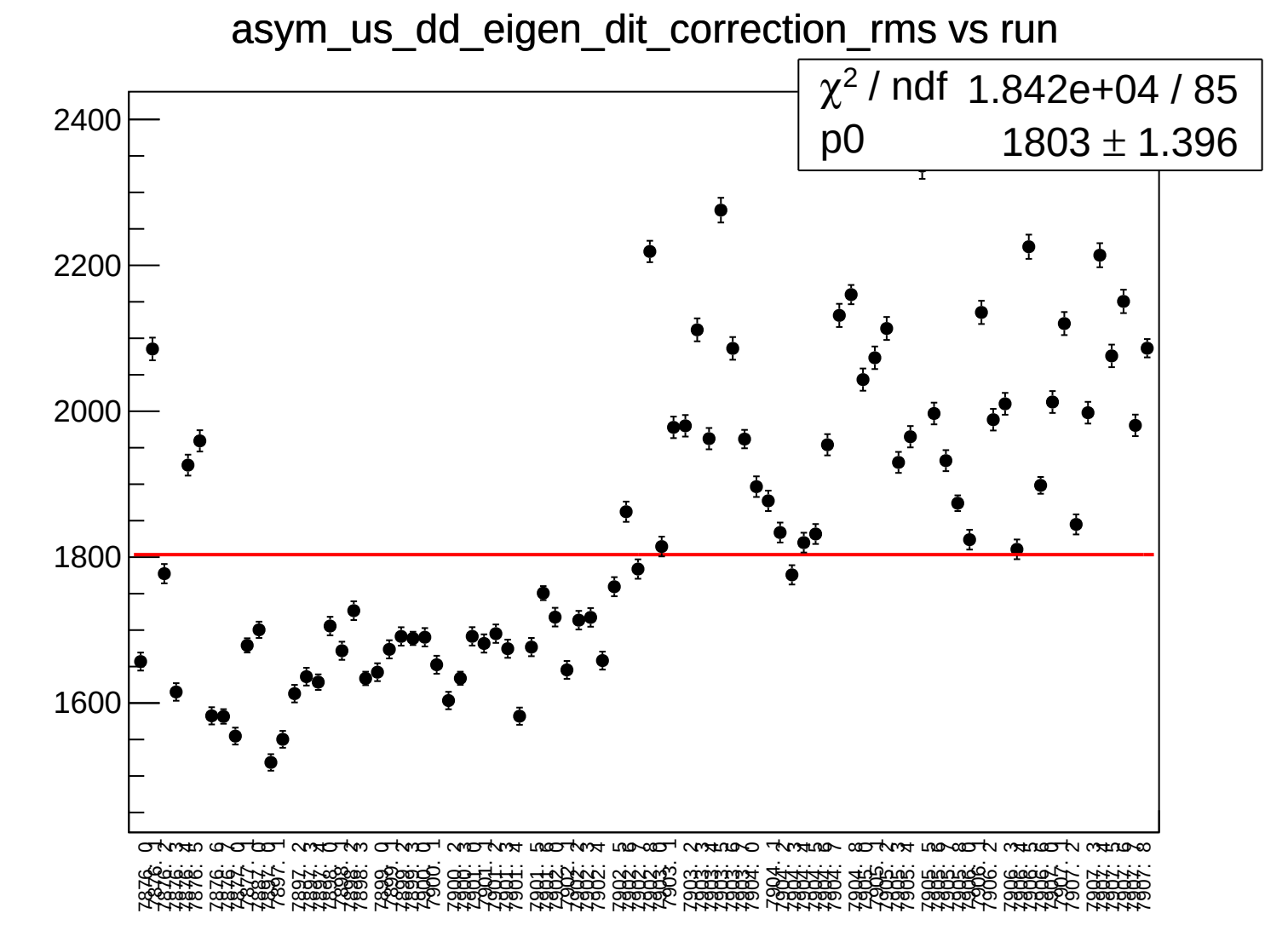

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 89.23 / 85
p0 −8.47 ± 839.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 360.7
Std Dev 0
3
2
1
0
−1
−2

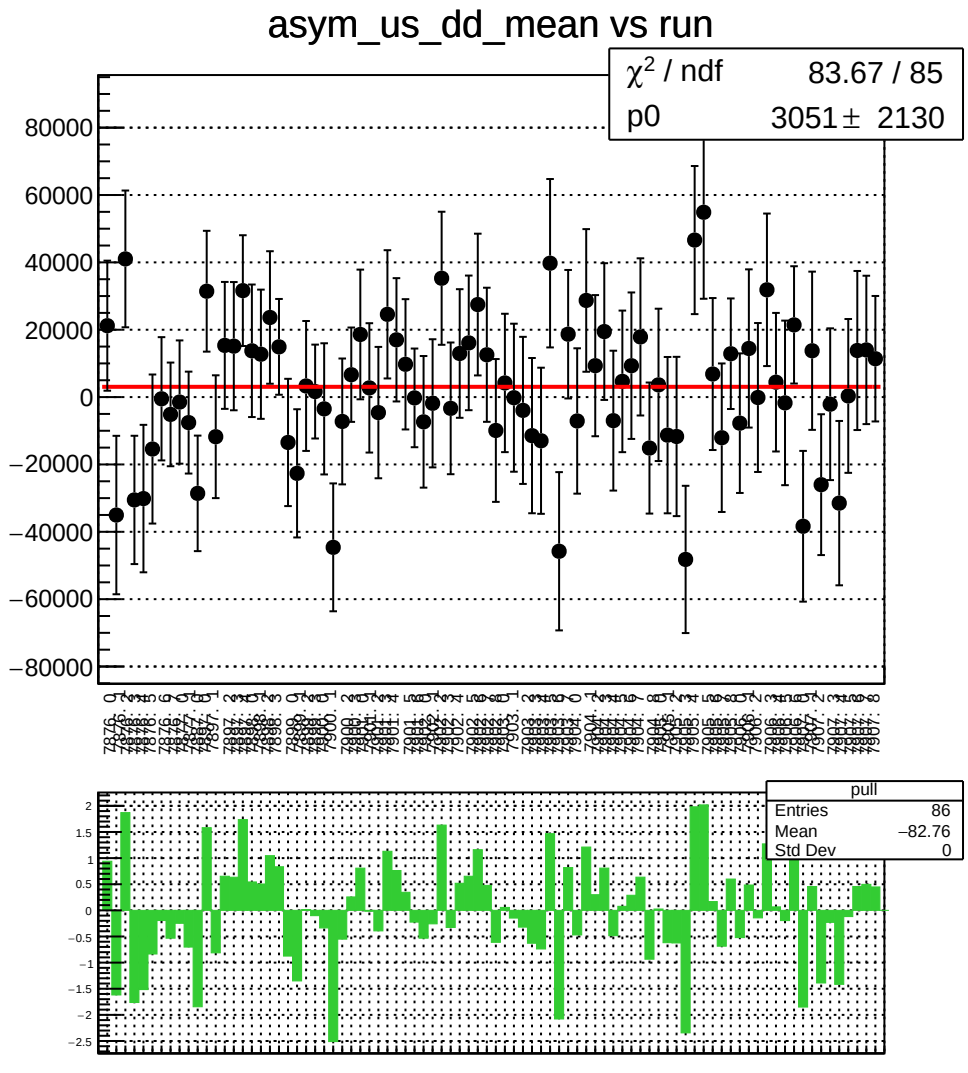

pull1D
Entries 86
Mean 0.002628
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

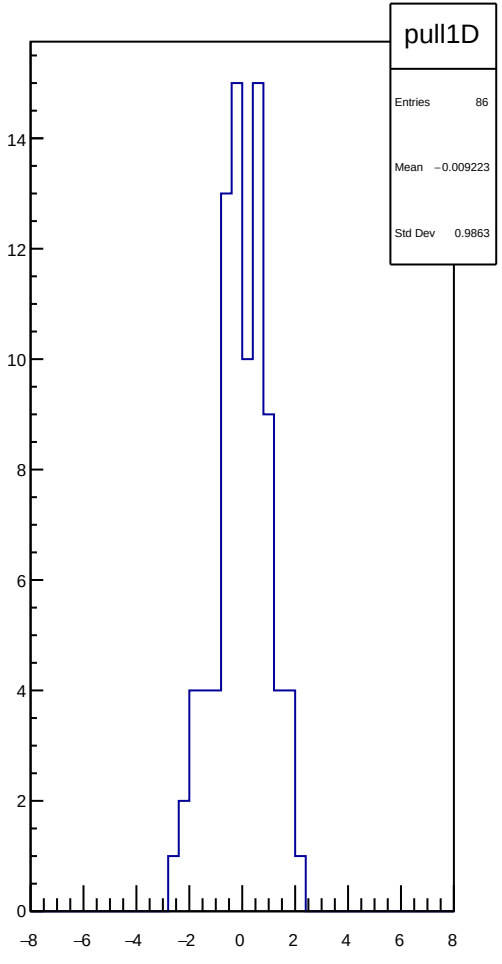

eigen_dit_asym_us_dd_rms vs run
χ^2 / ndf 577.7 / 85
p0 771.4 ± 0.5939
840
820
800
780
760
740

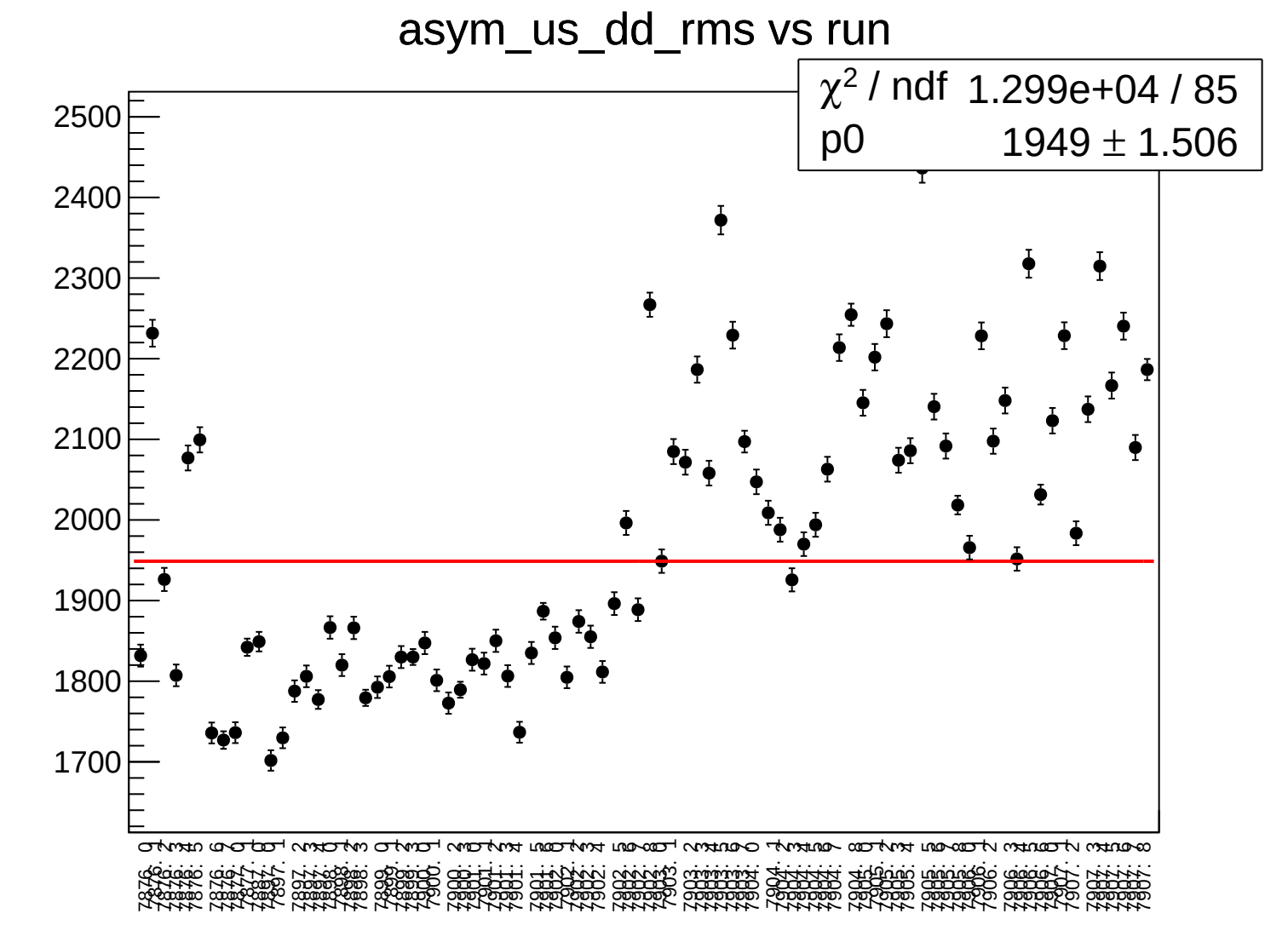

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.65 / 85
p0 −3169 ± 1974
pull
Entries 86
Mean −24.12
Std Dev 21.96

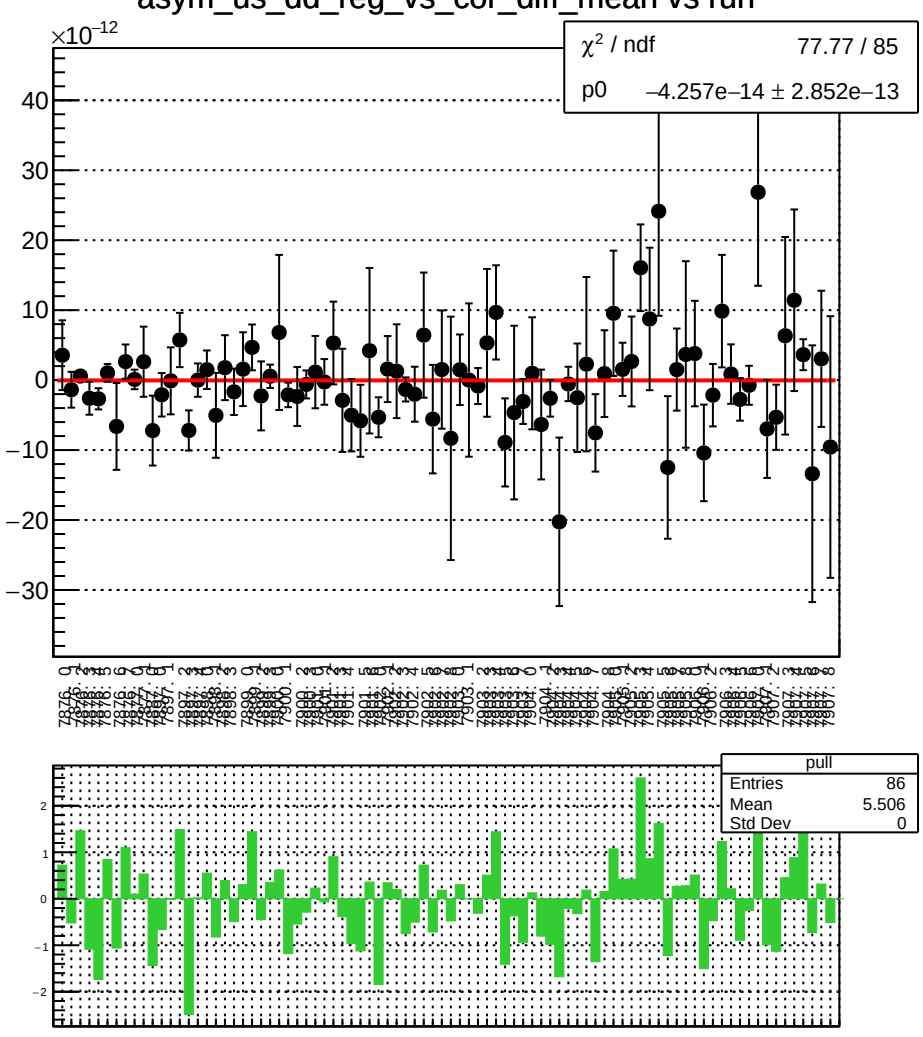

pull1D
Entries 86
Mean 0.01362
Std Dev 0.992

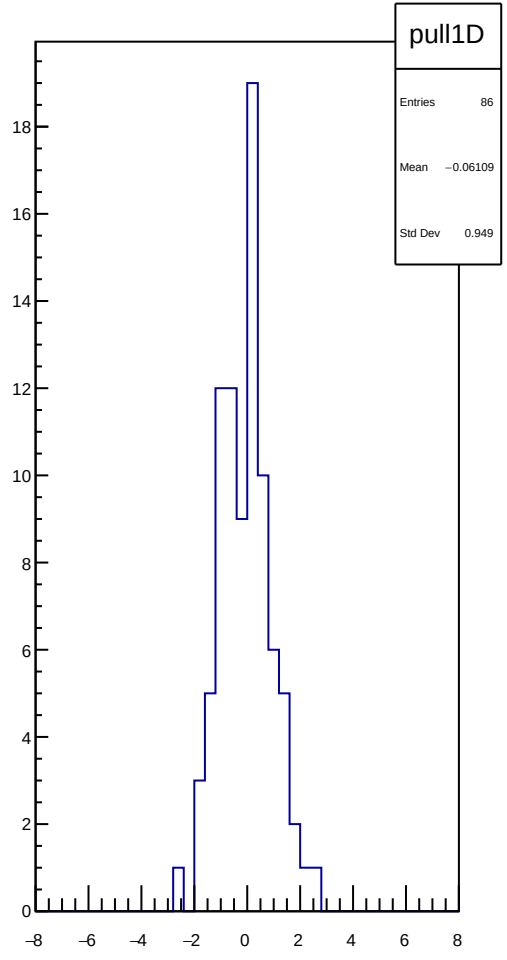

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.842e+04 / 85
p0 1803 ± 1.396
2400
2200
2000
1800
1600

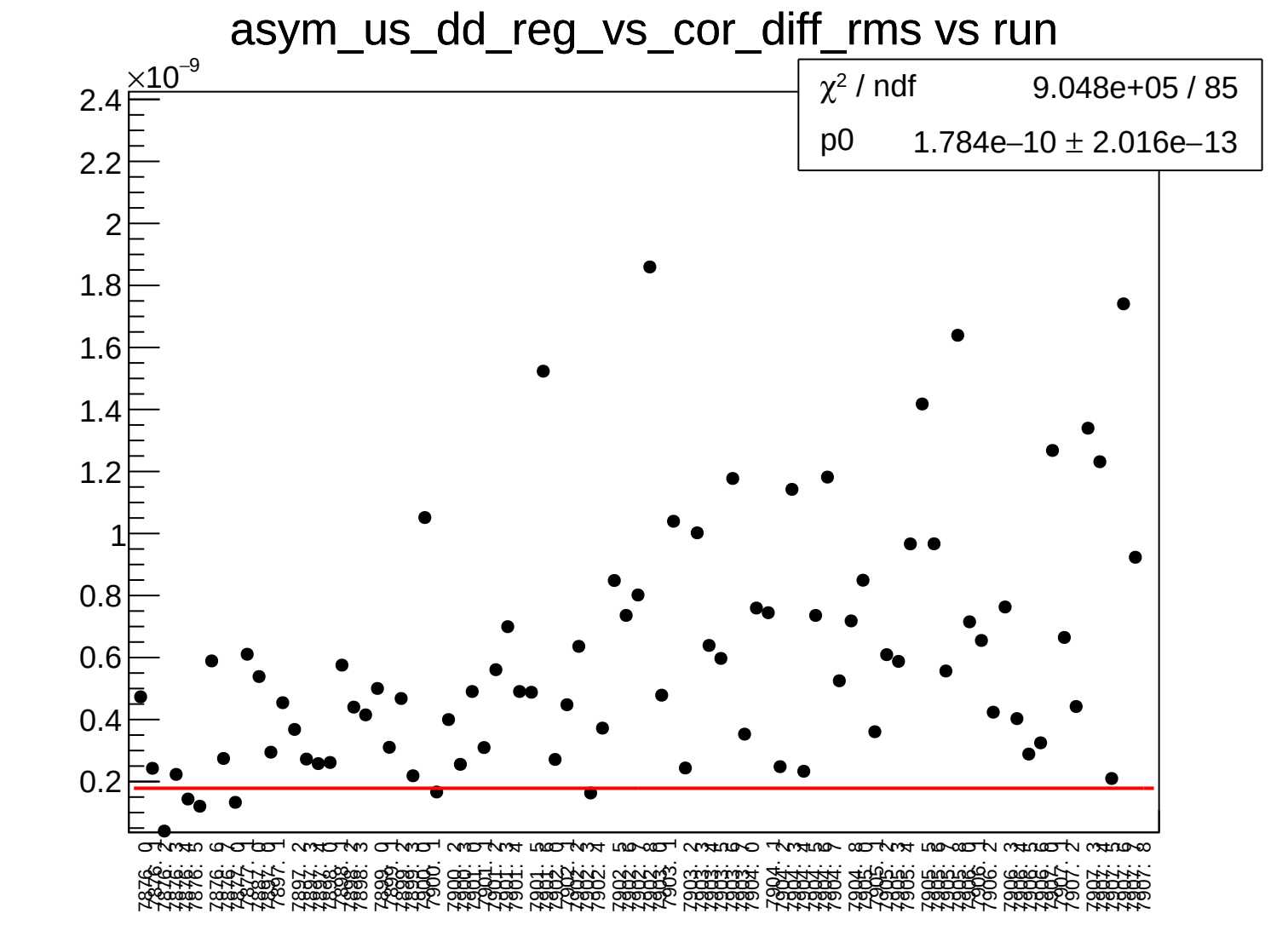

asym_us_dd_mean vs run
χ² / ndf 83.67 / 85
p0 3051 ± 2130
pull
Entries 86
Mean −82.76
Std Dev 0

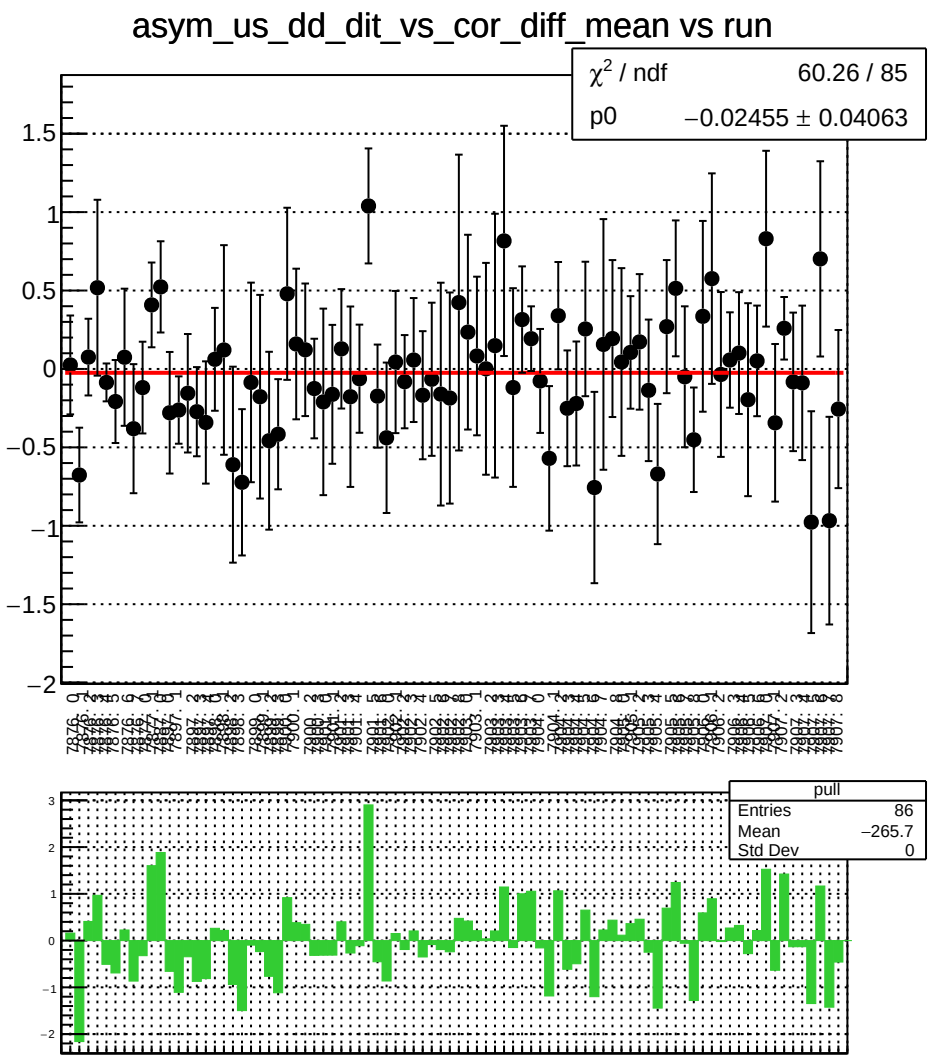

pull1D
Entries 86
Mean −0.009223
Std Dev 0.9863

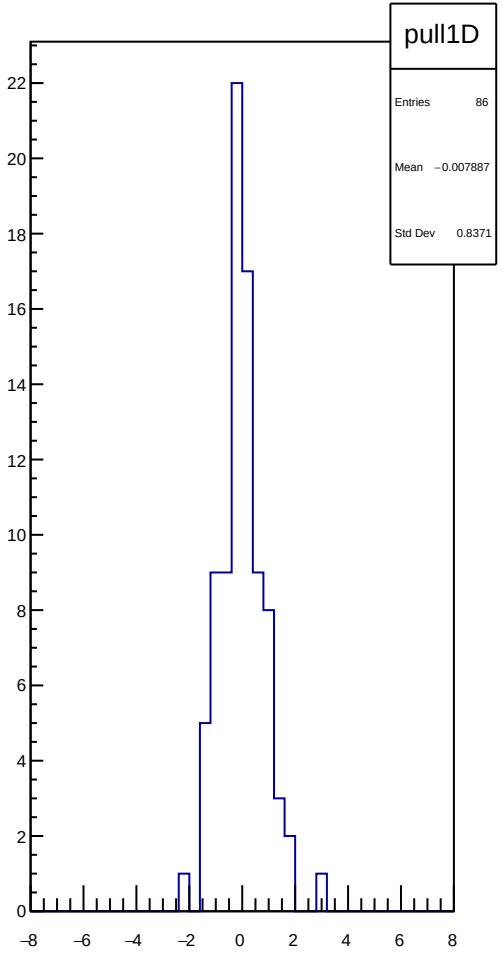

asym_us_dd_rms vs run
χ² / ndf 1.299e+04 / 85
p0 1949 ± 1.506
2500
2400
2300
2200
2100
2000
1900
1800
1700

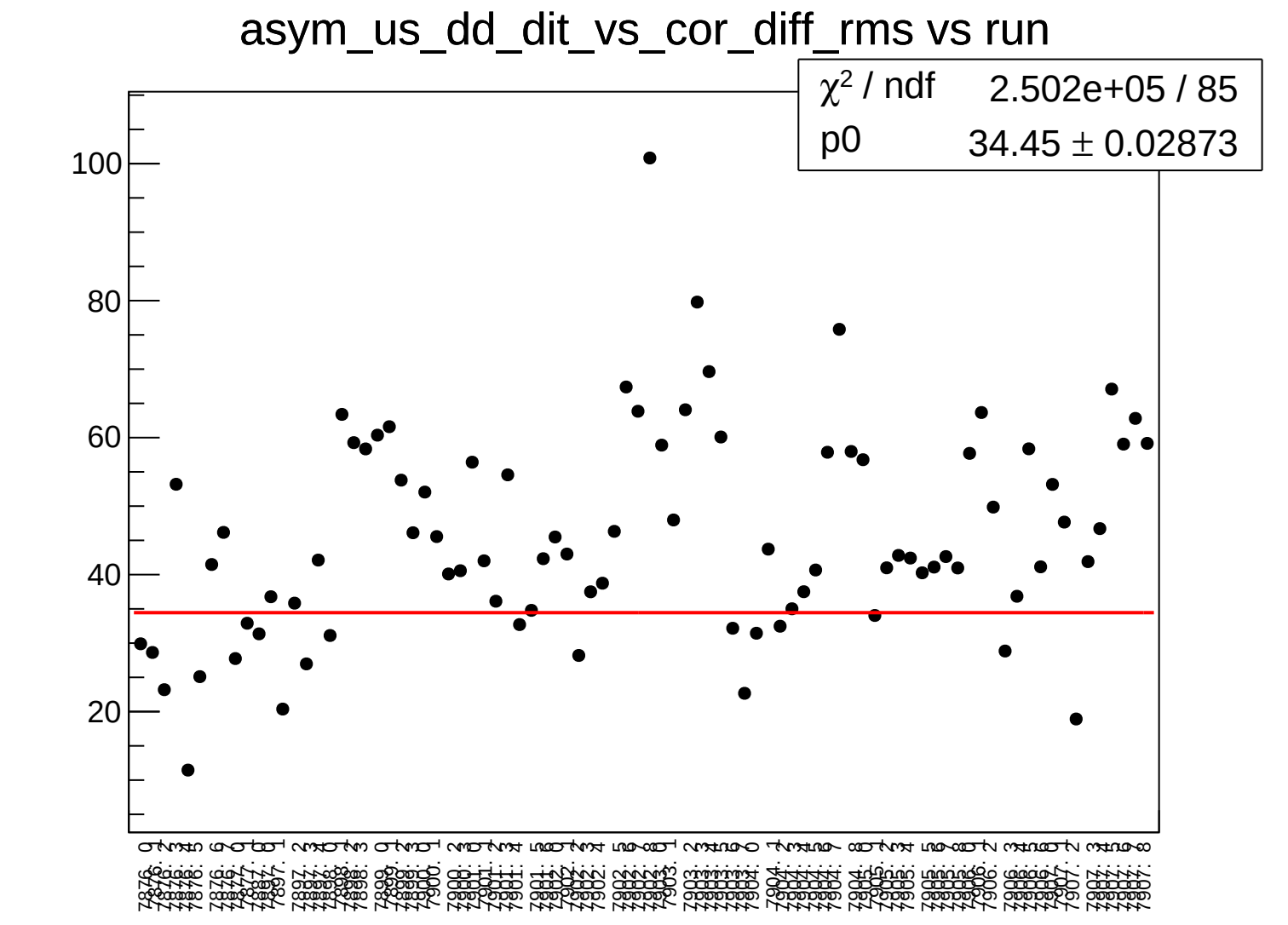

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.77 / 85
p0 −4.257e−14 ± 2.852e−13
40
30
20
10
0
−10
−20
−30
pull
Entries 86
Mean 5.506
Std Dev 0
2
1
0
−1
−2

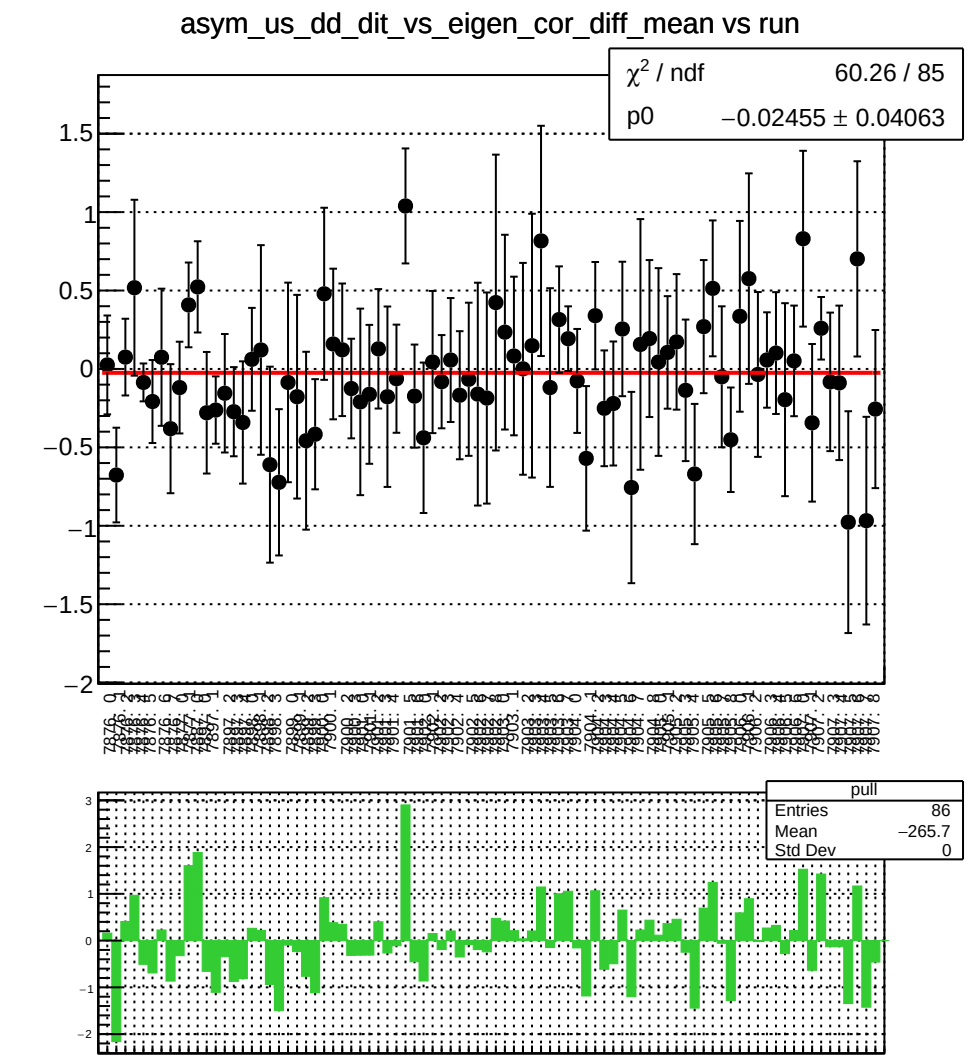

pull1D
Entries 86
Mean −0.06109
Std Dev 0.949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

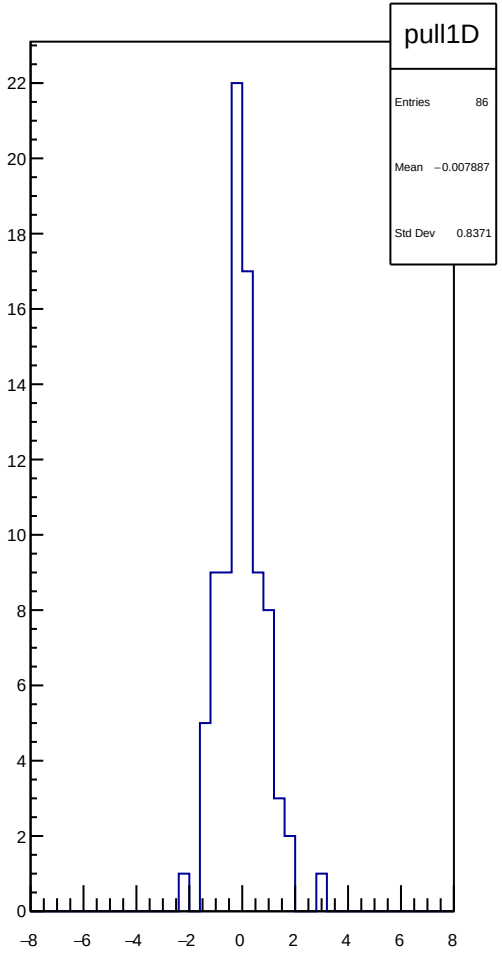

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.048e+05 / 85
p0 1.784e−10 ± 2.016e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

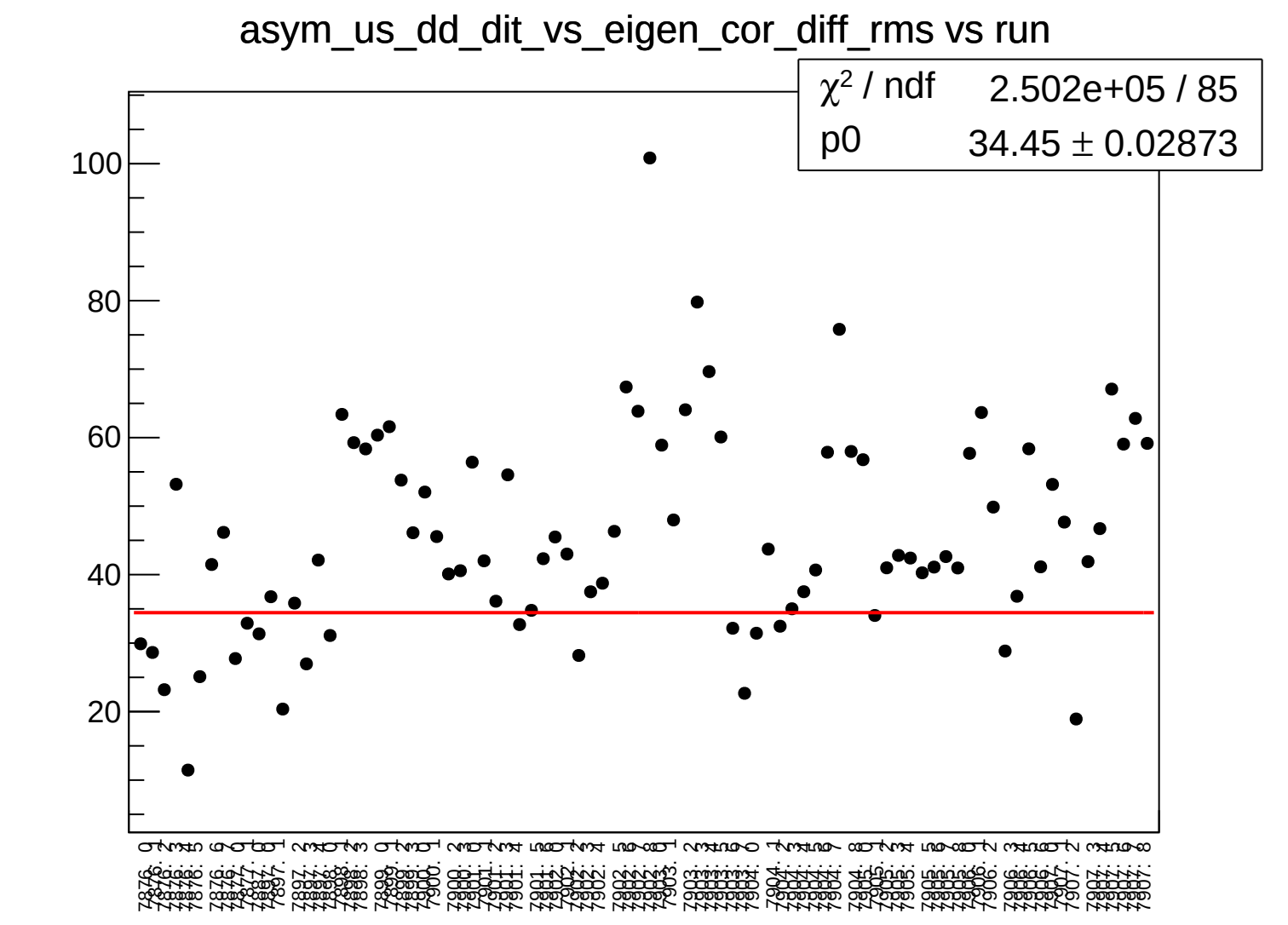

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 60.26 / 85
p0 −0.02455 ± 0.04063
pull
Entries 86
Mean −265.7
Std Dev 0

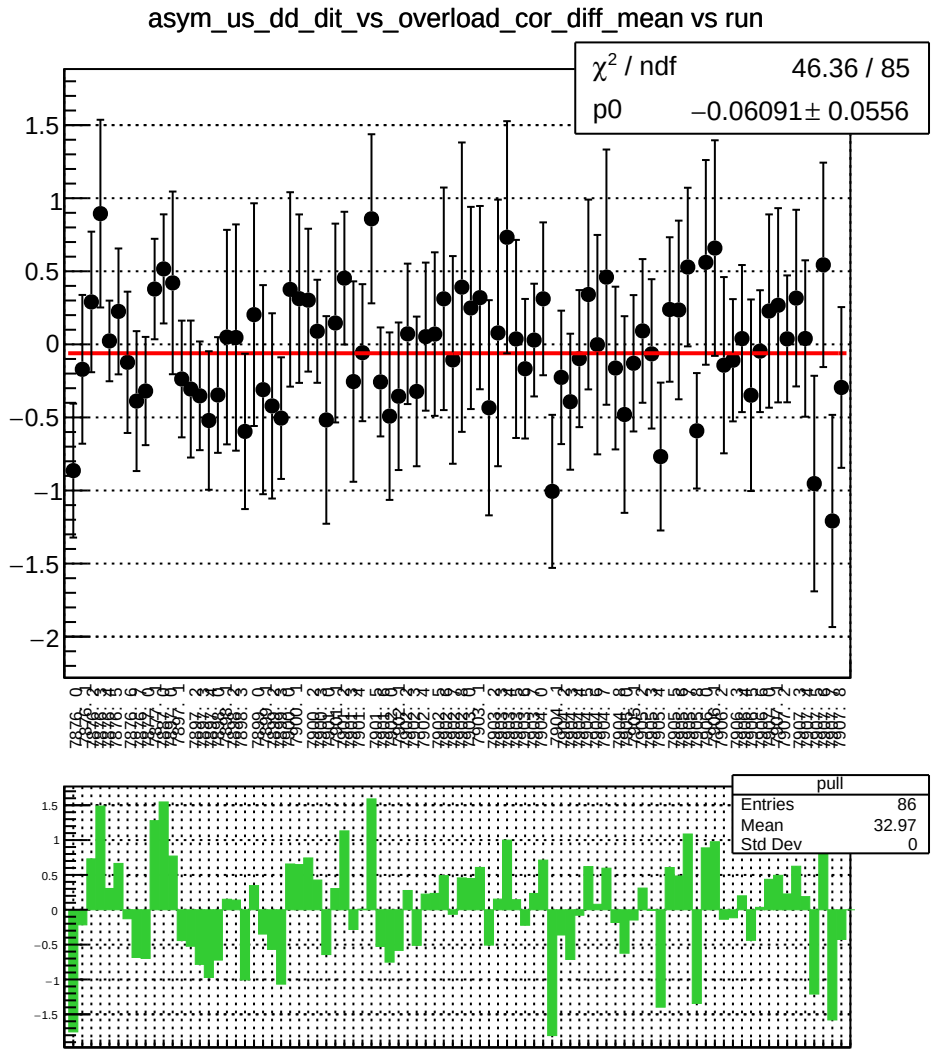

pull1D
Entries 86
Mean −0.007887
Std Dev 0.8371

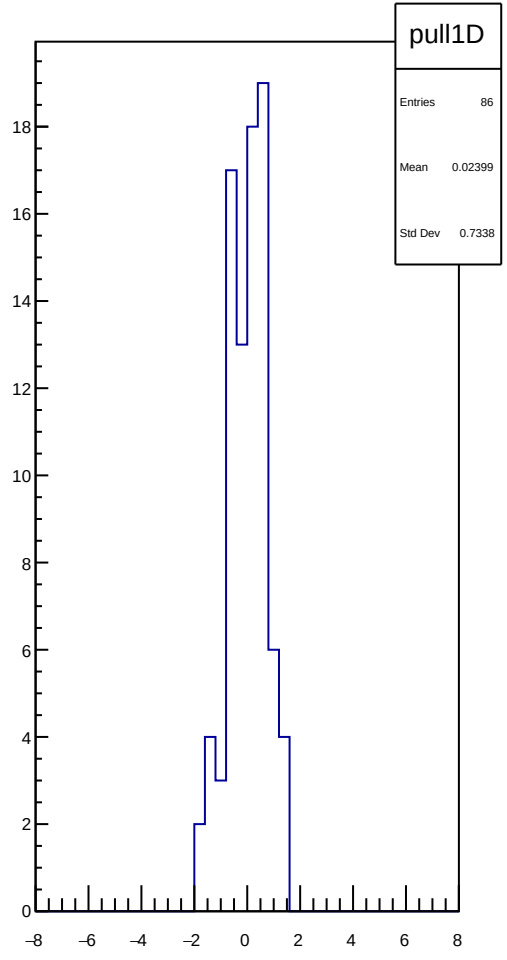

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.502e+05 / 85
p0 34.45 ± 0.02873
100
80
60
40
20

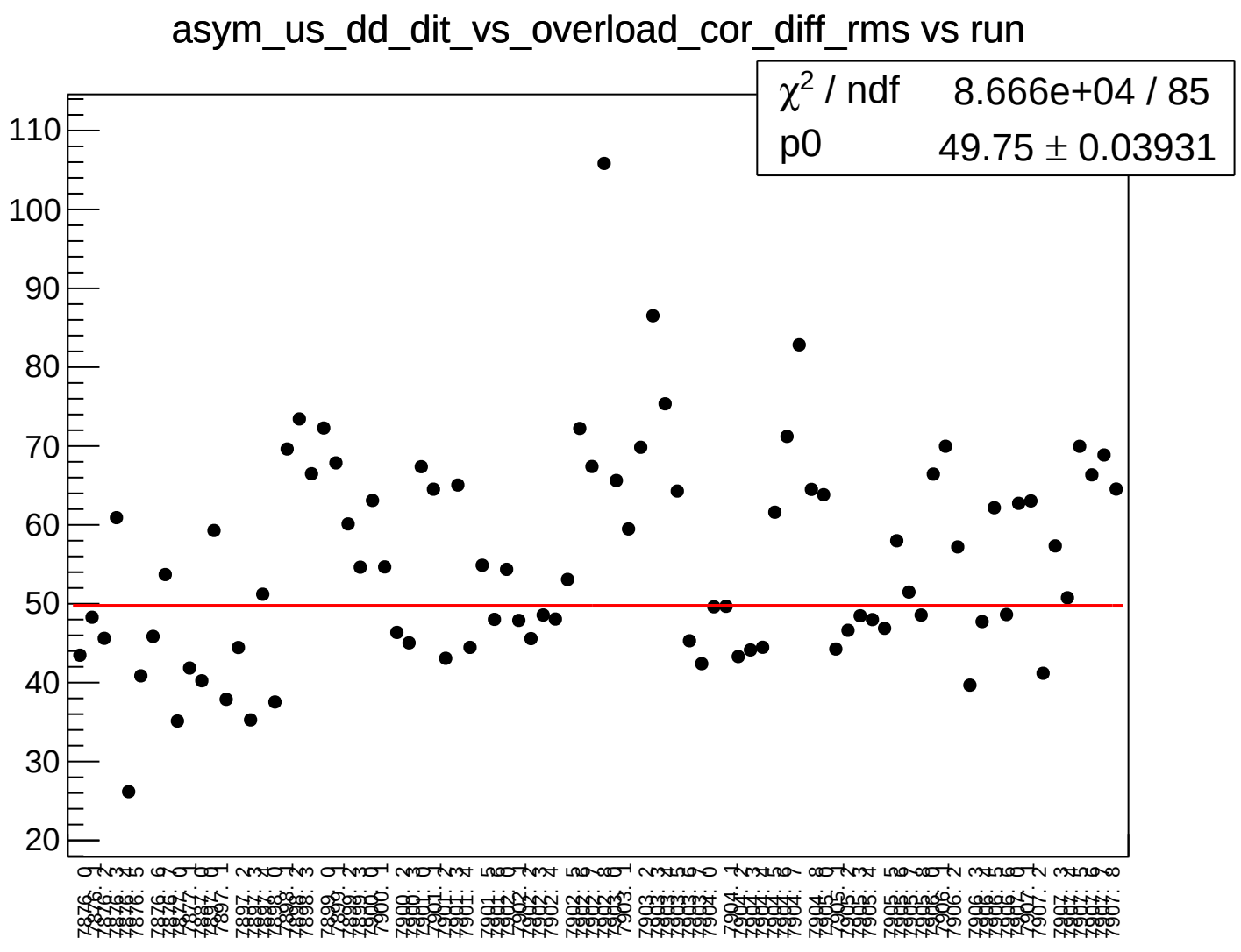

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.26 / 85
p0 −0.02455 ± 0.04063
pull
Entries 86
Mean −265.7
Std Dev 0

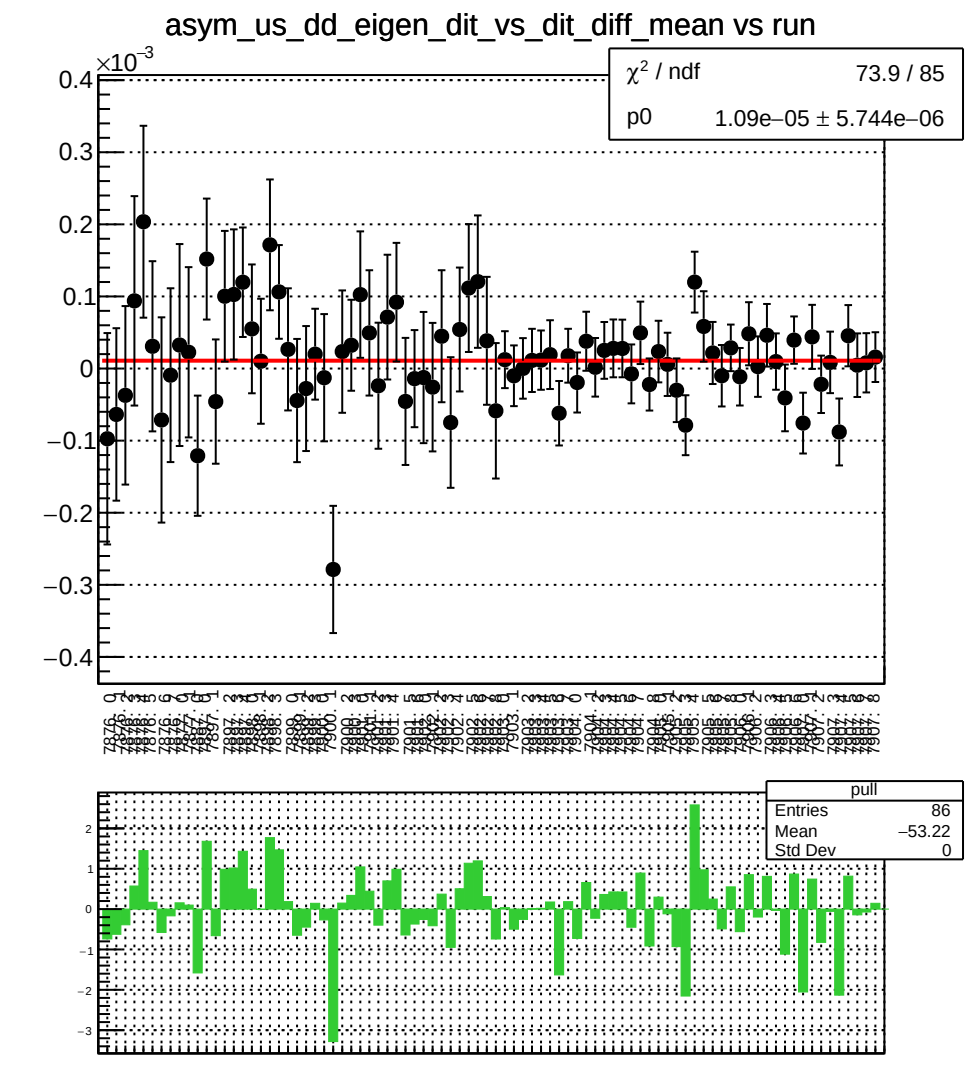

pull1D
Entries 86
Mean −0.007887
Std Dev 0.8371

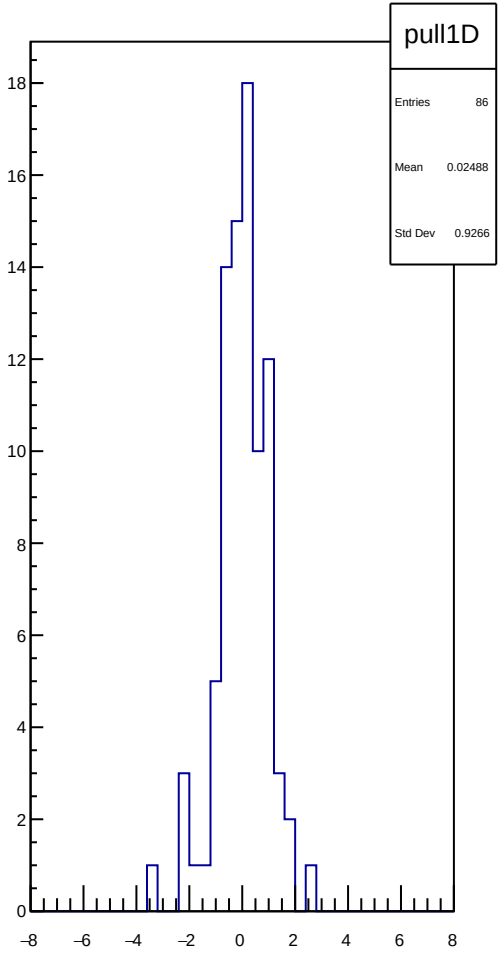

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.502e+05 / 85
p0 34.45 ± 0.02873
100
80
60
40
20

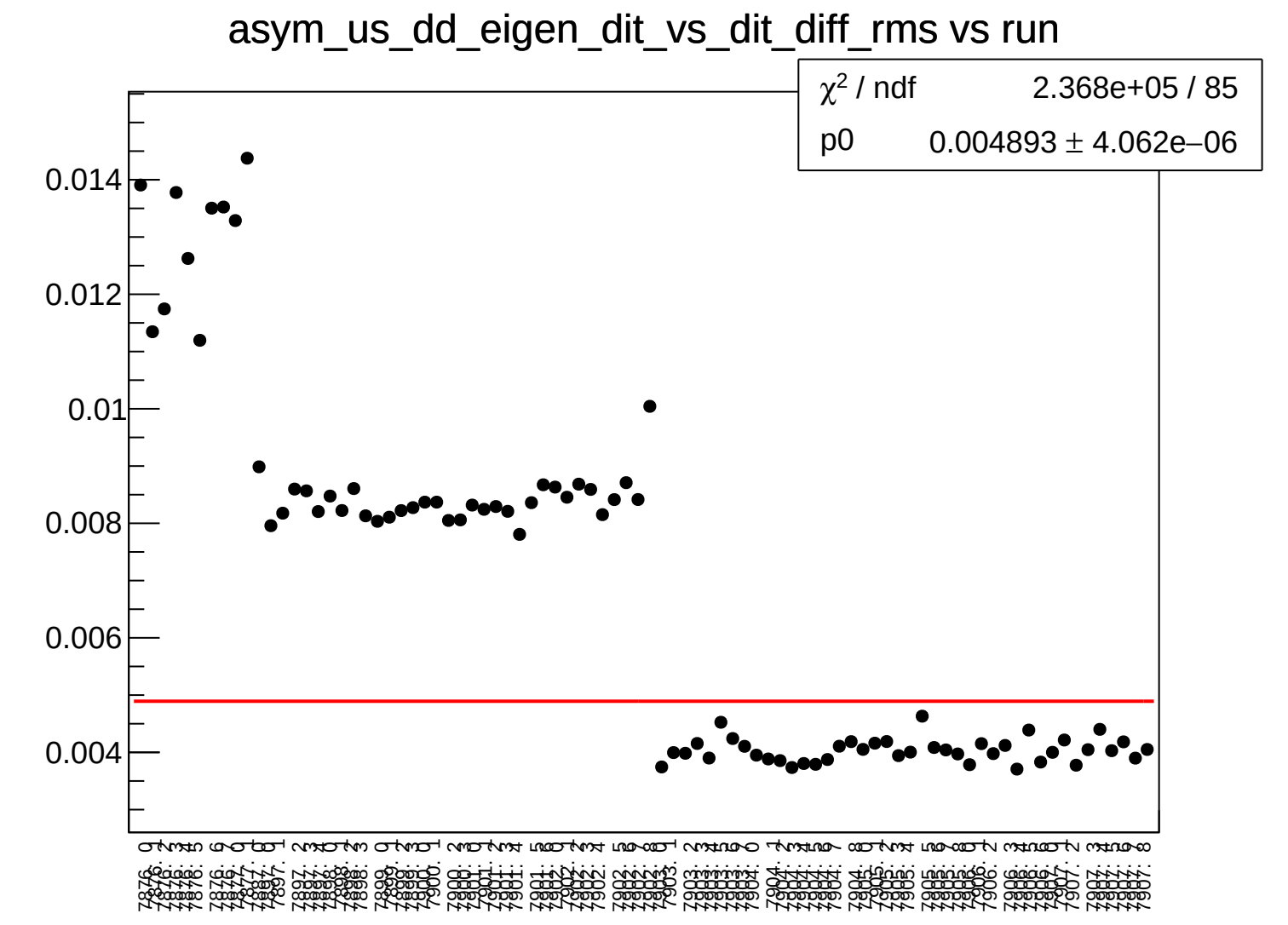

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 46.36 / 85
p0 −0.06091 ± 0.0556
pull
Entries 86
Mean 32.97
Std Dev 0

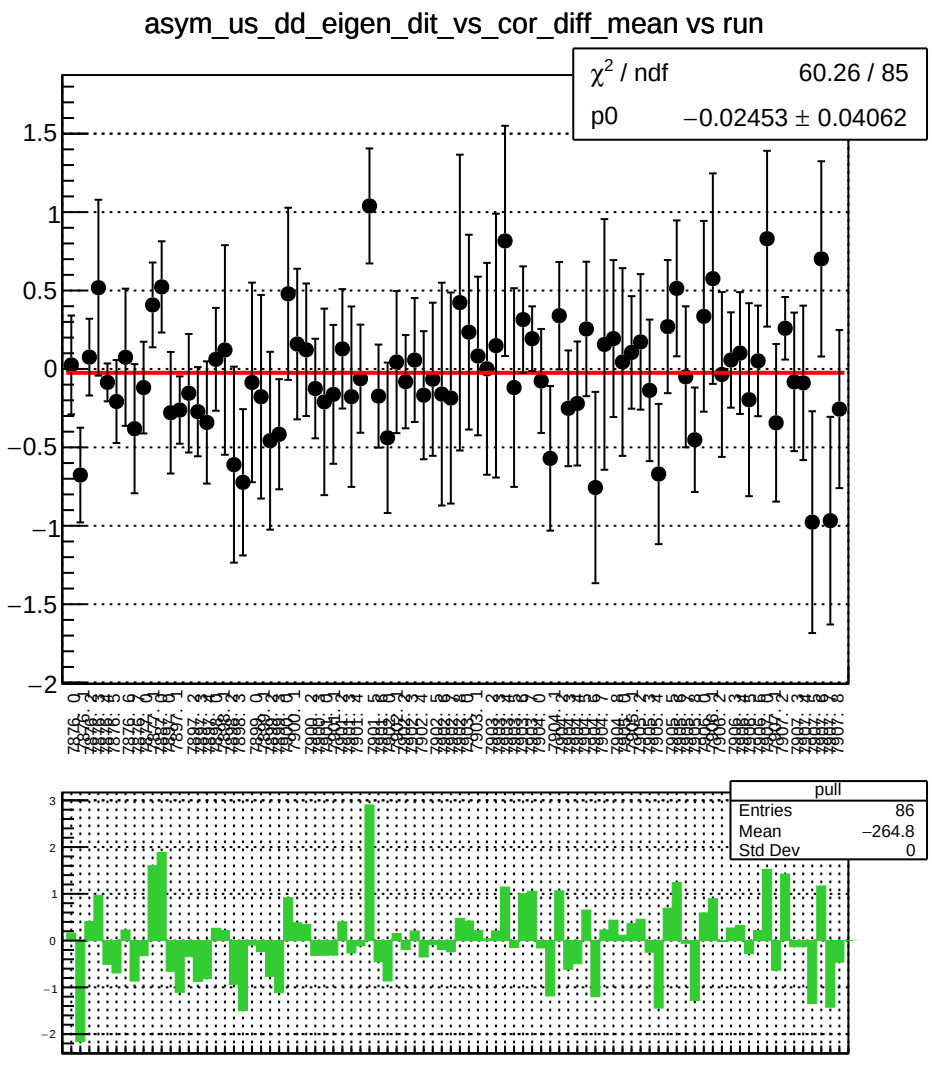

pull1D
Entries 86
Mean 0.02399
Std Dev 0.7338

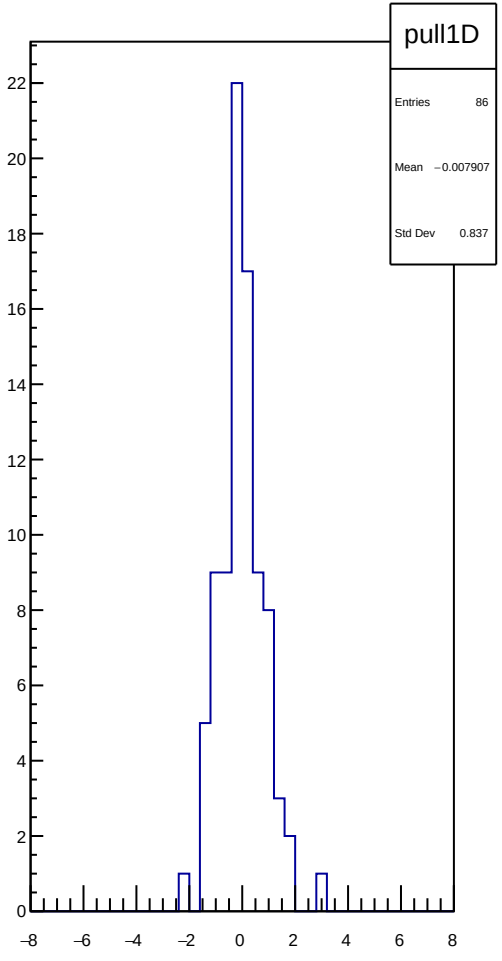

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.666e+04 / 85
p0 49.75 ± 0.03931
110
100
90
80
70
60
50
40
30
20

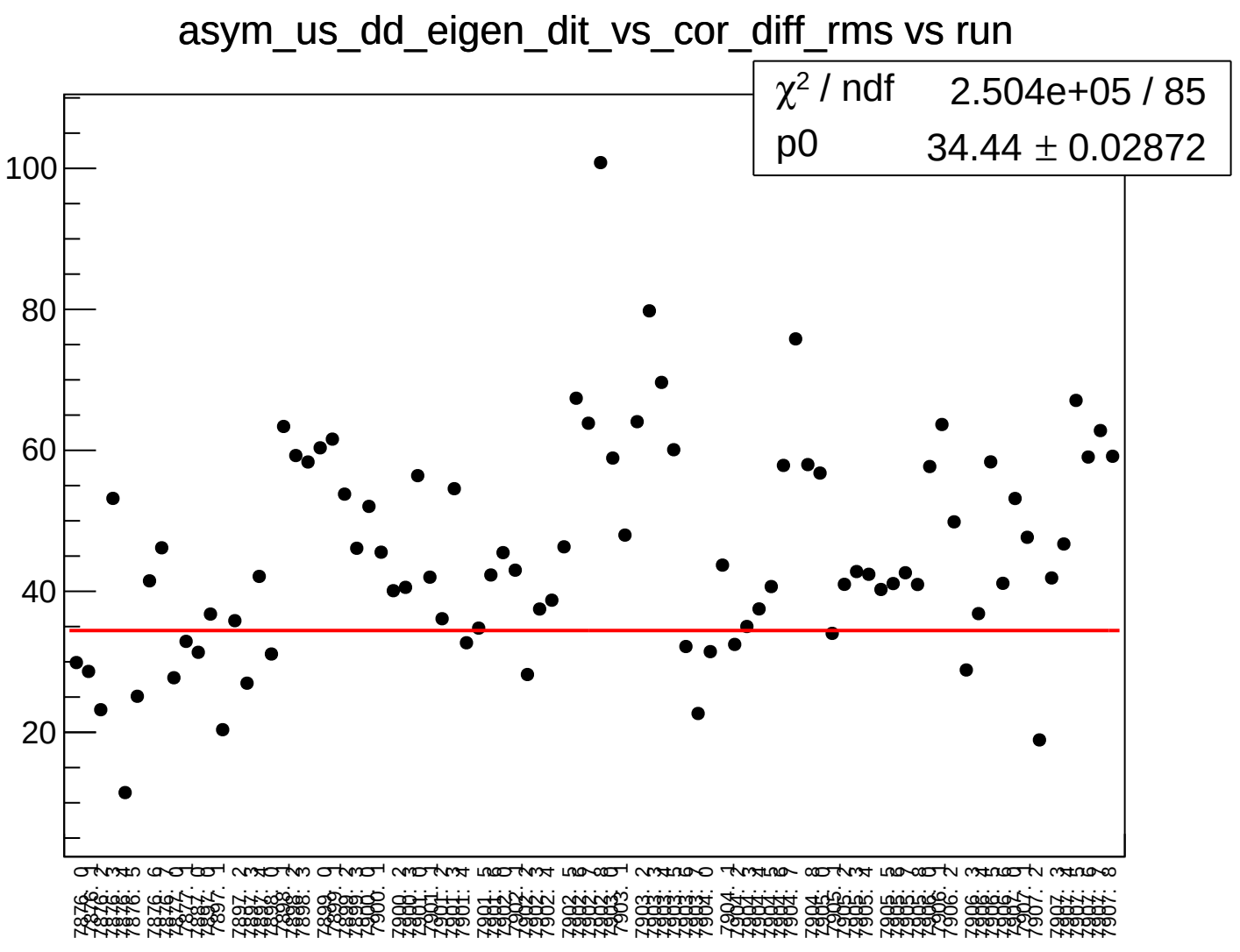

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.9 / 85
p0 1.09e−05 ± 5.744e−06
pull
Entries 86
Mean −53.22
Std Dev 0

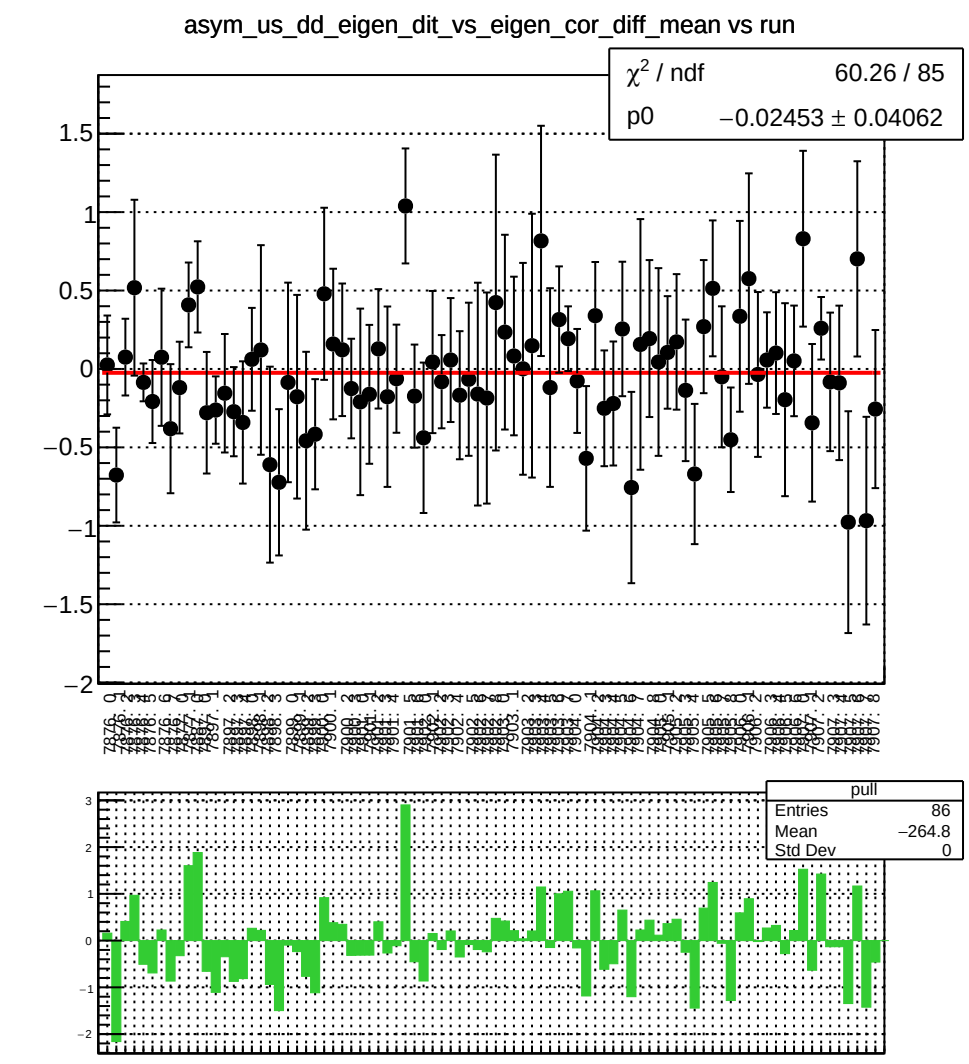

pull1D
Entries 86
Mean 0.02488
Std Dev 0.9266

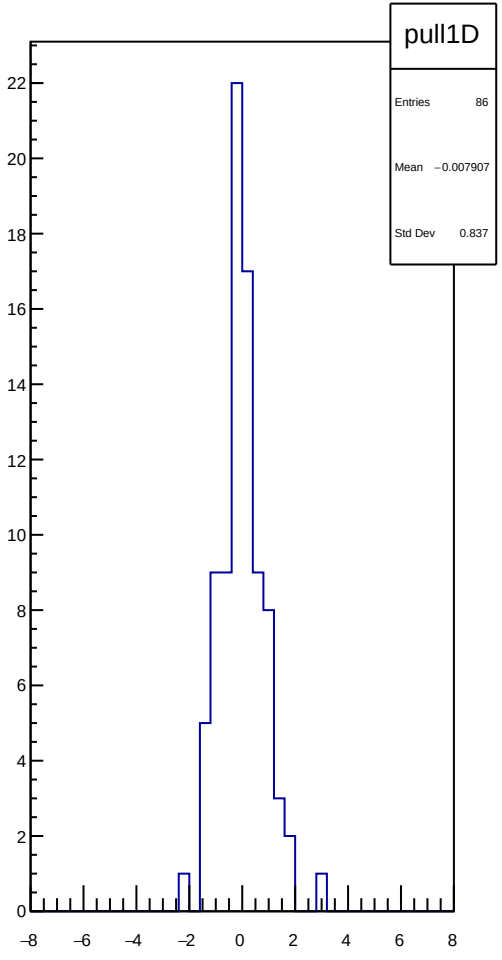

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.368e+05 / 85
p0 0.004893 ± 4.062e−06
0.014
0.012
0.01
0.008
0.006
0.004

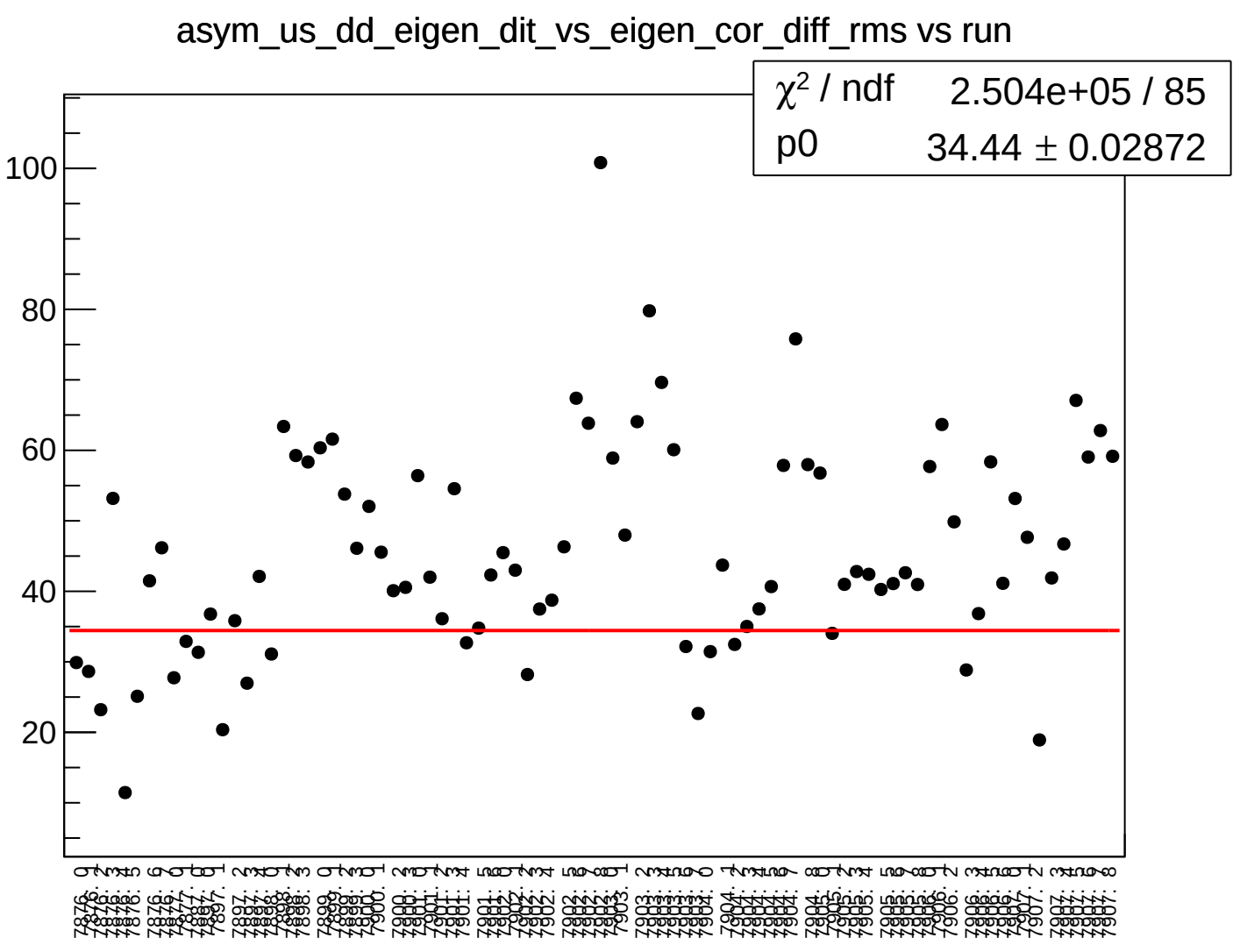

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.26 / 85
p0 −0.02453 ± 0.04062
pull
Entries 86
Mean −264.8
Std Dev 0

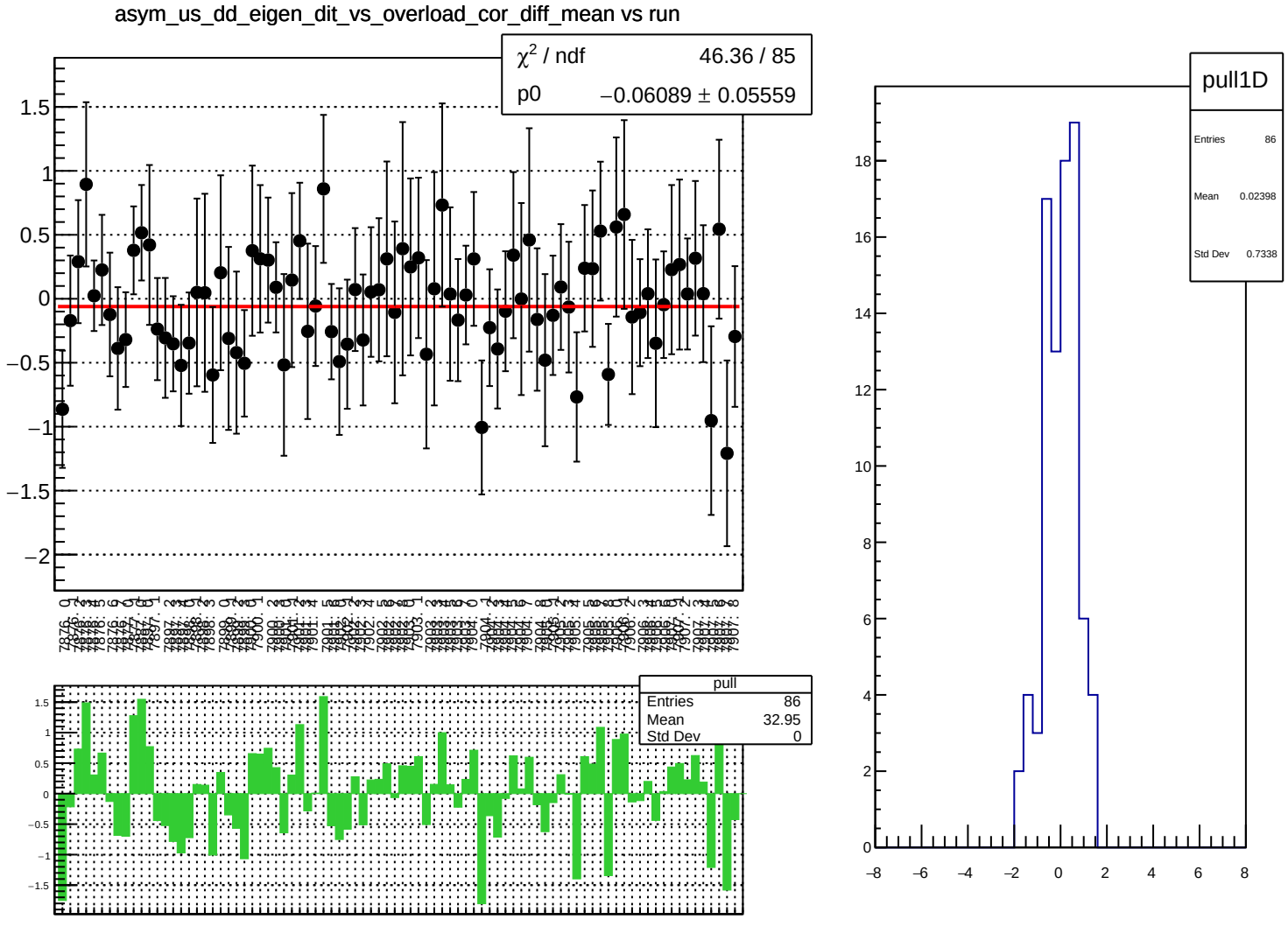

pull1D
Entries 86
Mean −0.007907
Std Dev 0.837

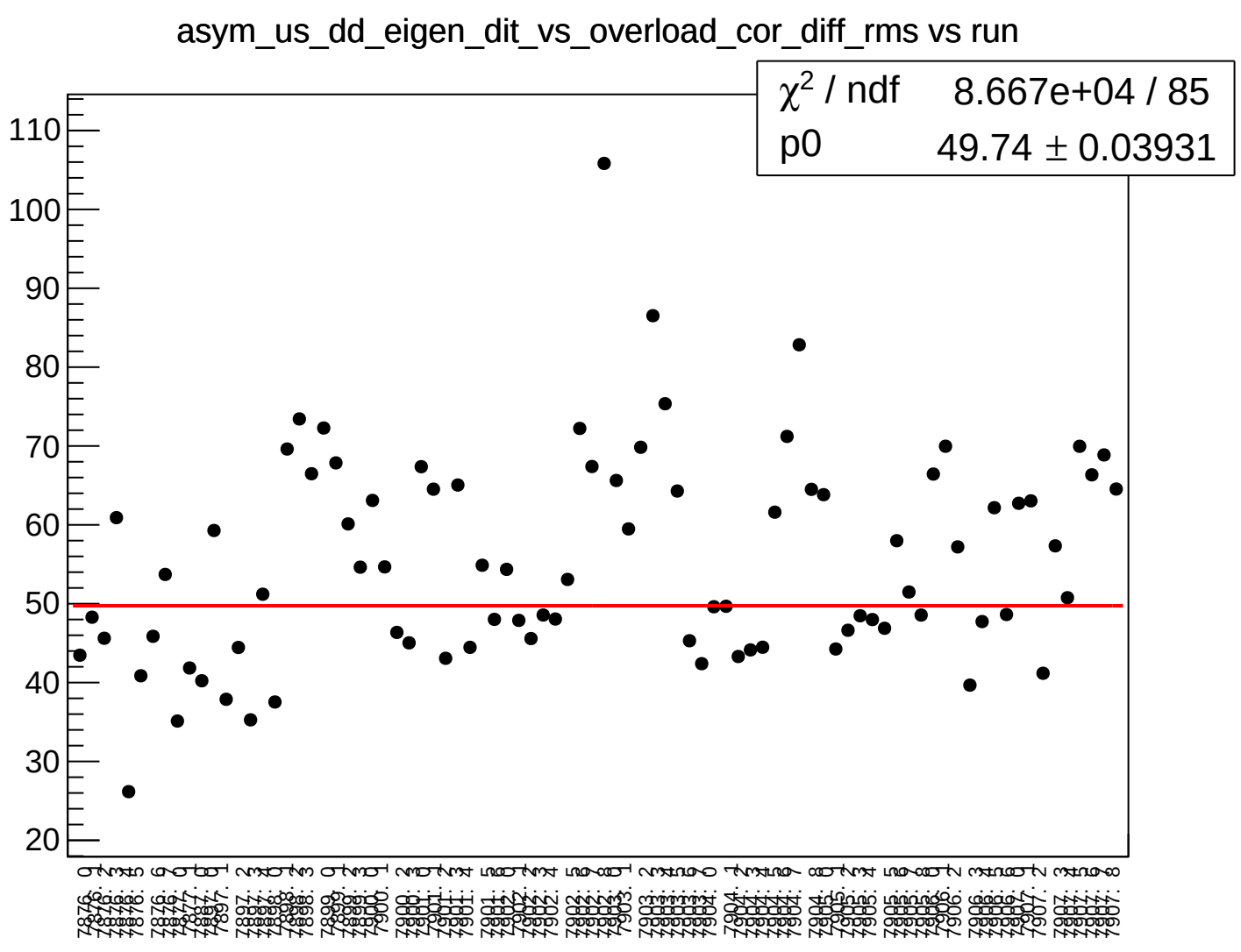

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.504e+05 / 85
p0 34.44 ± 0.02872
100
80
60
40
20

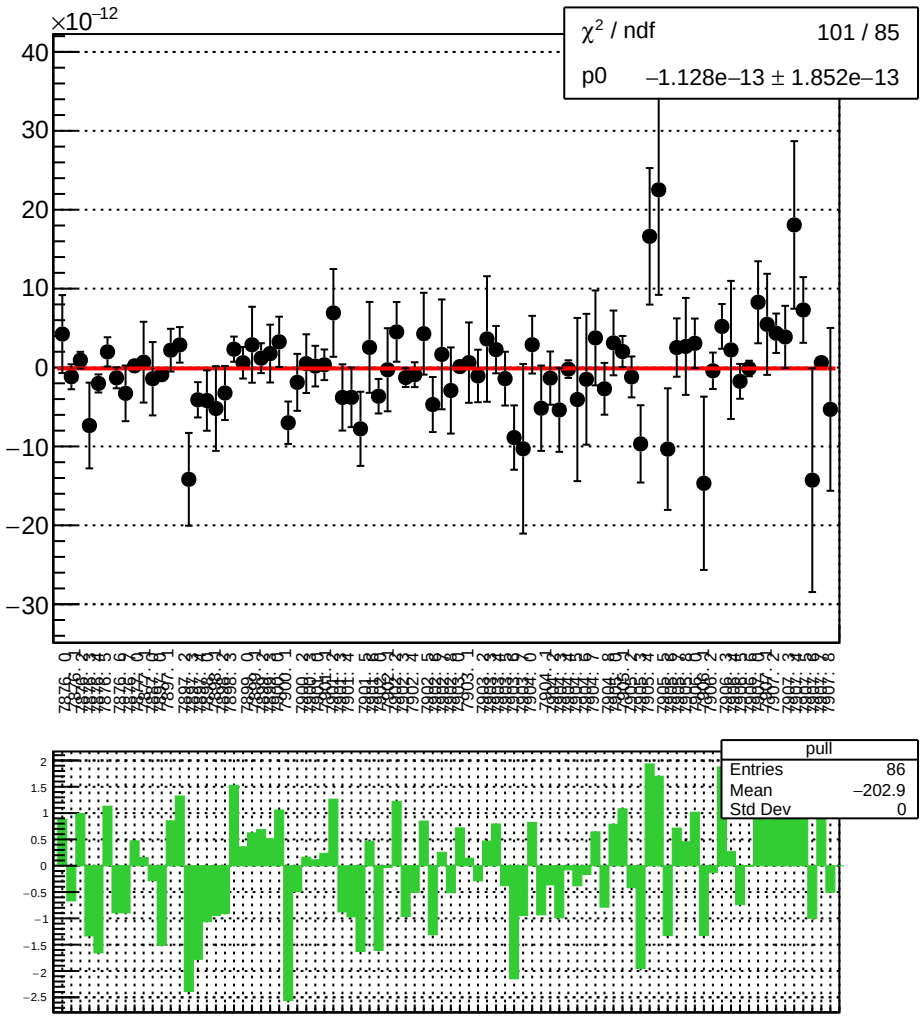

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.26 / 85
p0 −0.02453 ± 0.04062
pull
Entries 86
Mean −264.8
Std Dev 0

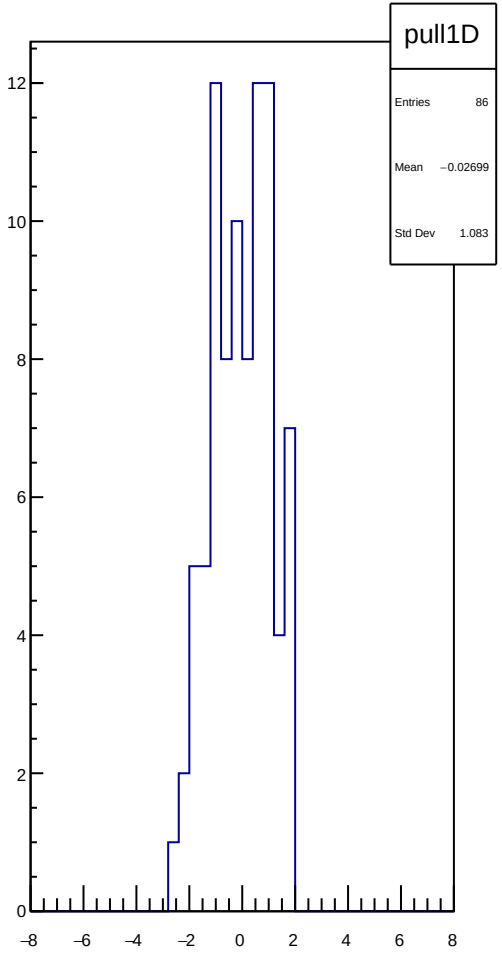

pull1D
Entries 86
Mean −0.007907
Std Dev 0.837

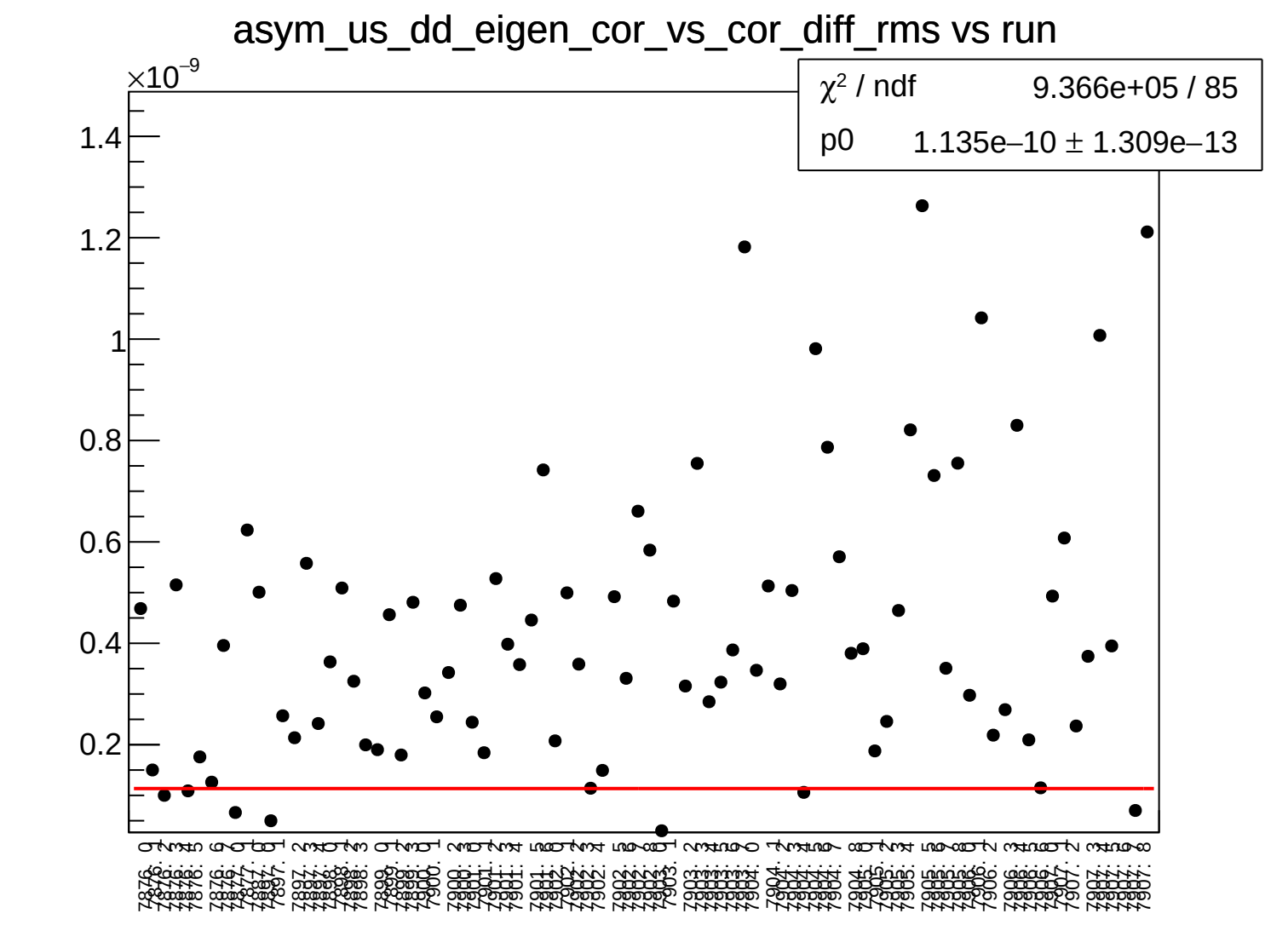

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.504e+05 / 85
p0 34.44 ± 0.02872
100
80
60
40
20

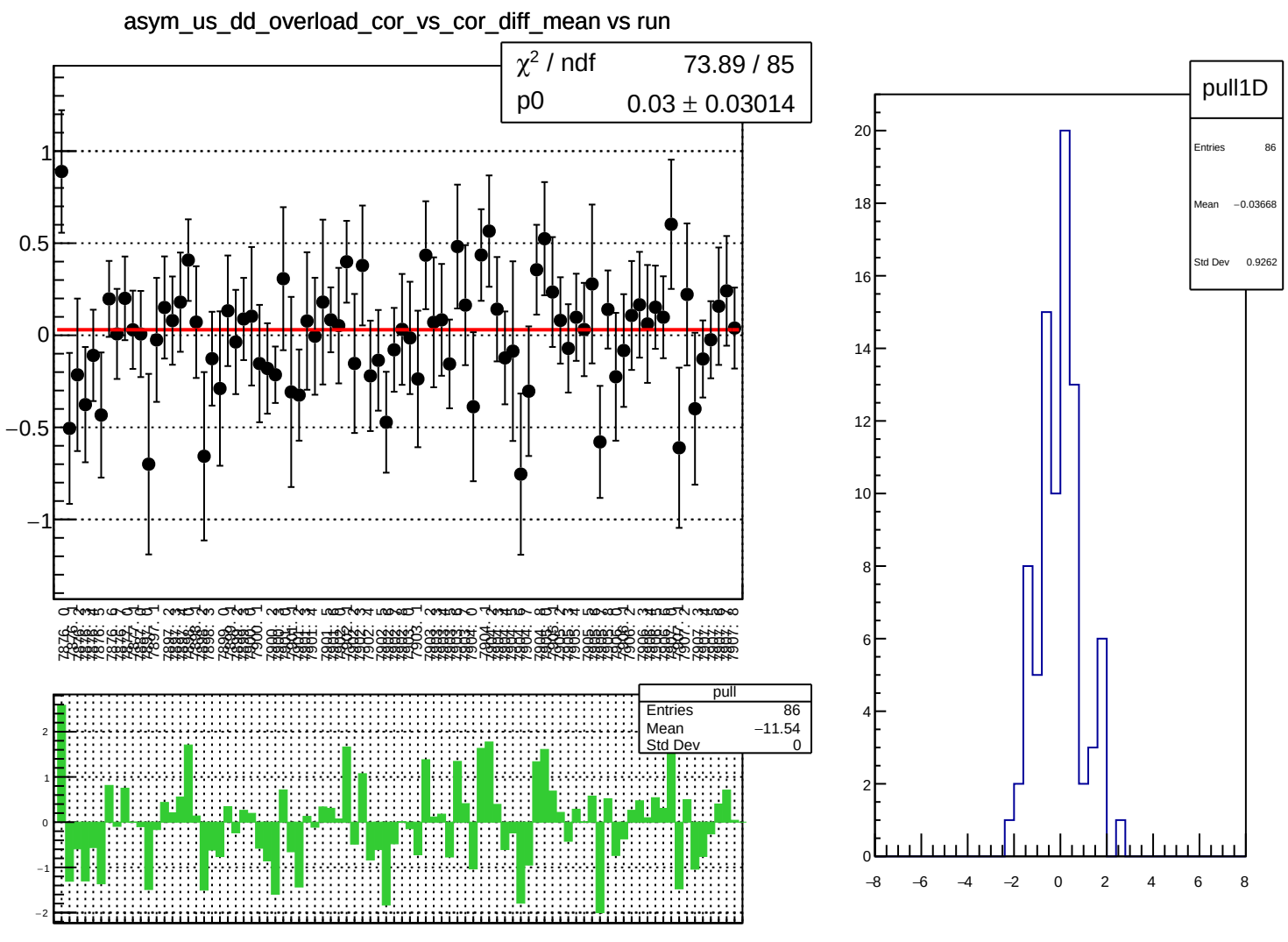

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 46.36 / 85
p0 −0.06089 ± 0.05559
pull
Entries 86
Mean 32.95
Std Dev 0
pull1D
Entries 86
Mean 0.02398
Std Dev 0.7338

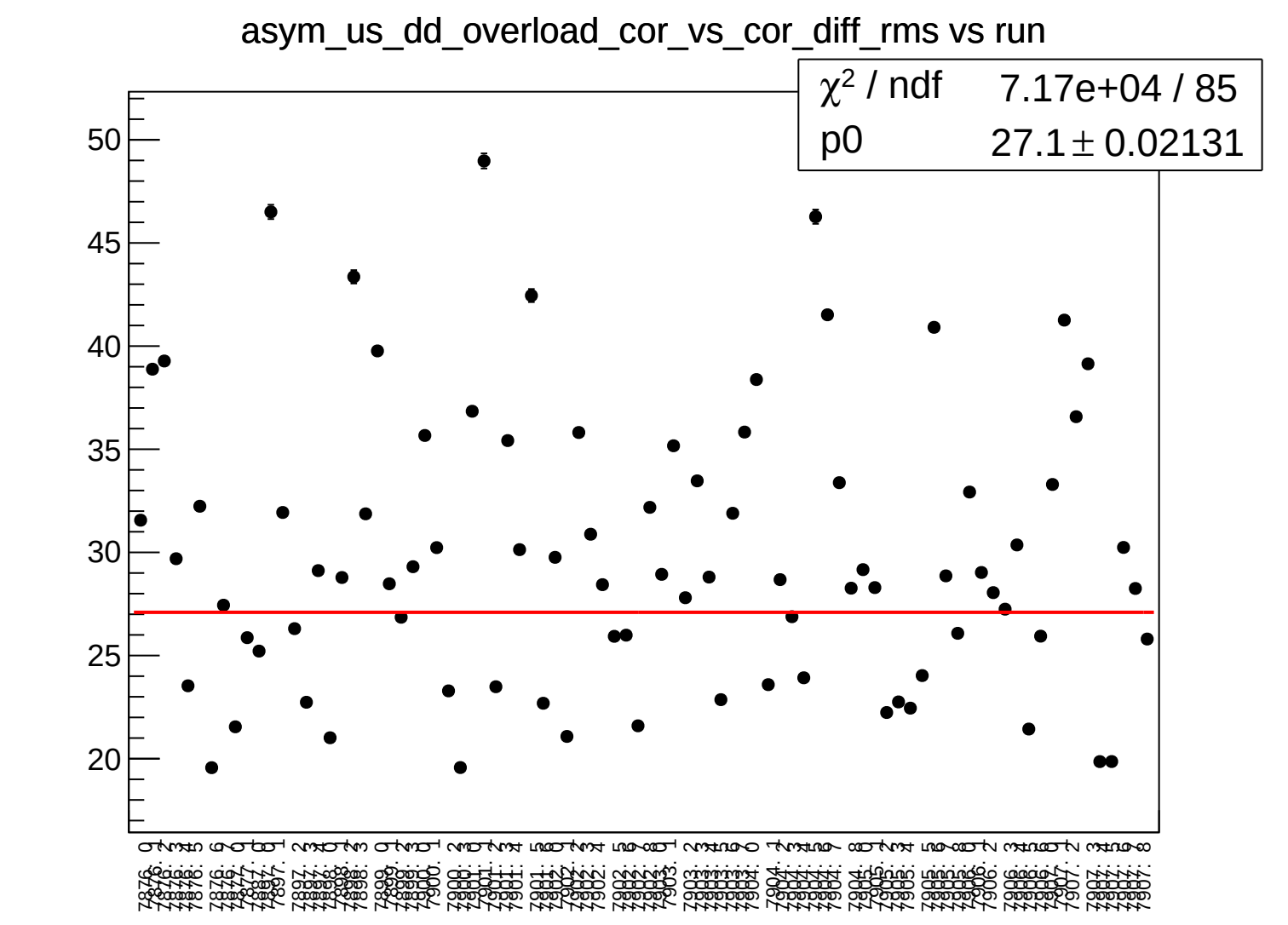

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.667e+04 / 85
p0 49.74 ± 0.03931
110
100
90
80
70
60
50
40
30
20

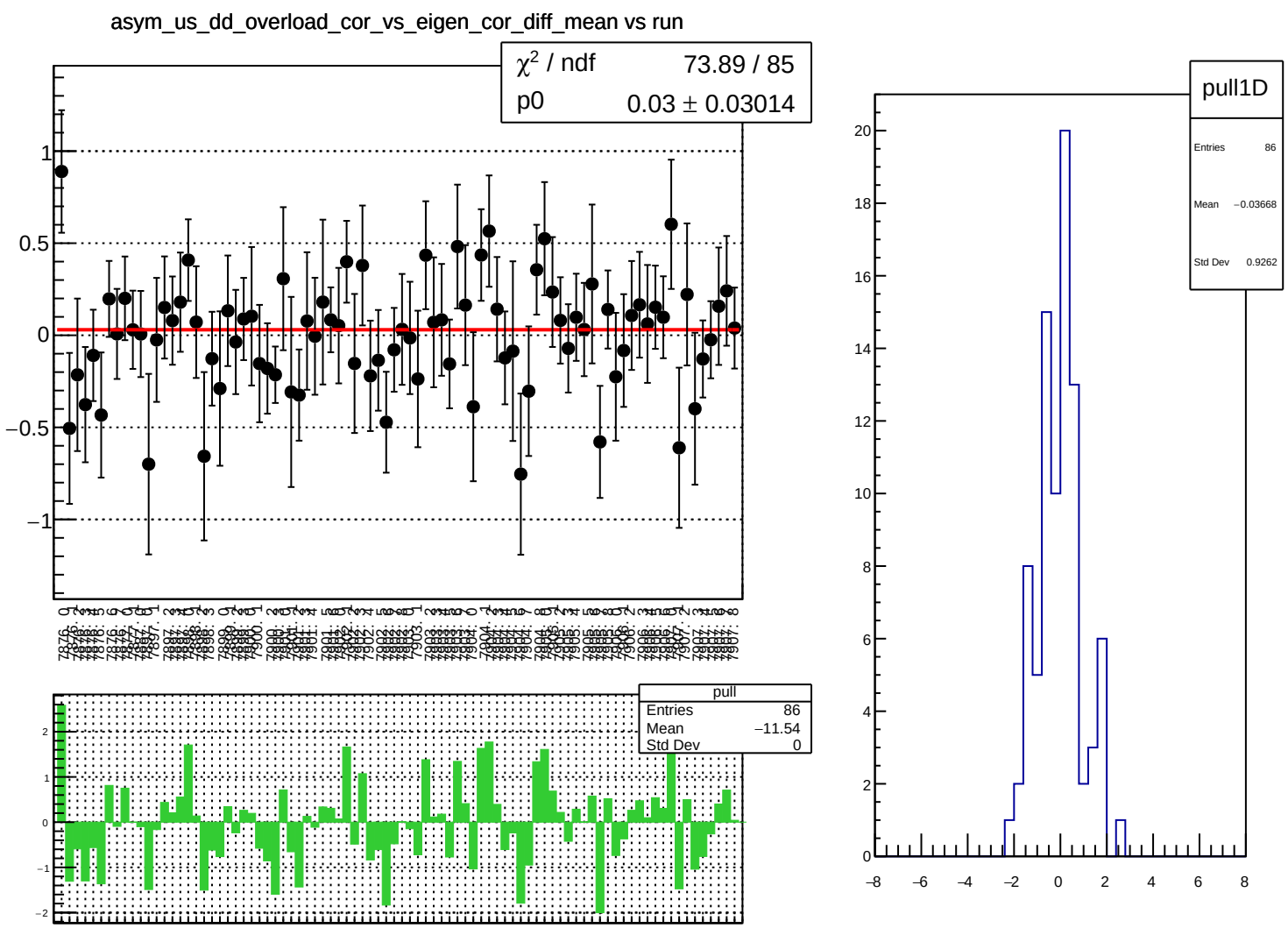

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101 / 85
p0 −1.128e−13 ± 1.852e−13
pull
Entries 86
Mean −202.9
Std Dev 0

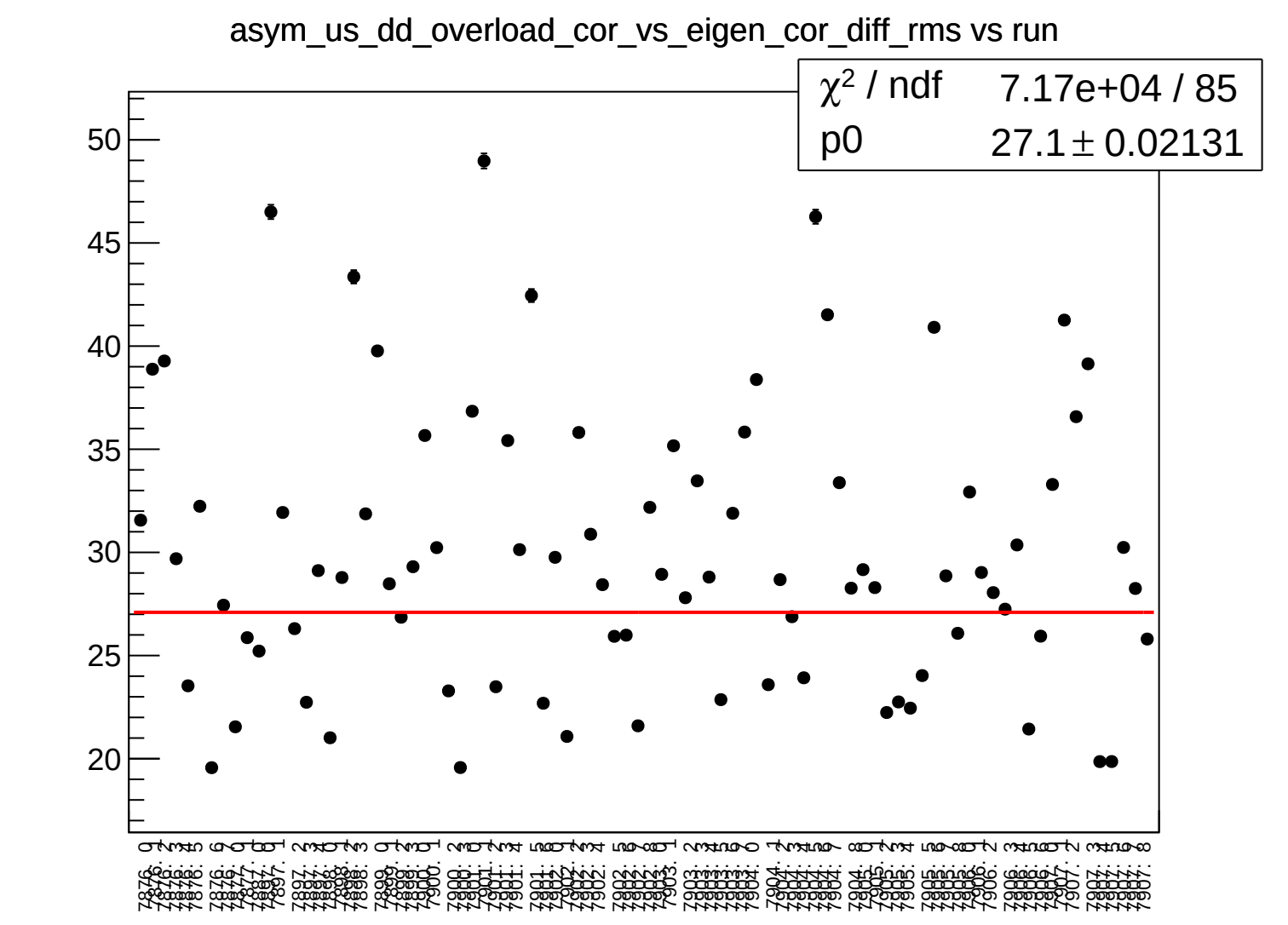

pull1D
Entries 86
Mean −0.02699
Std Dev 1.083

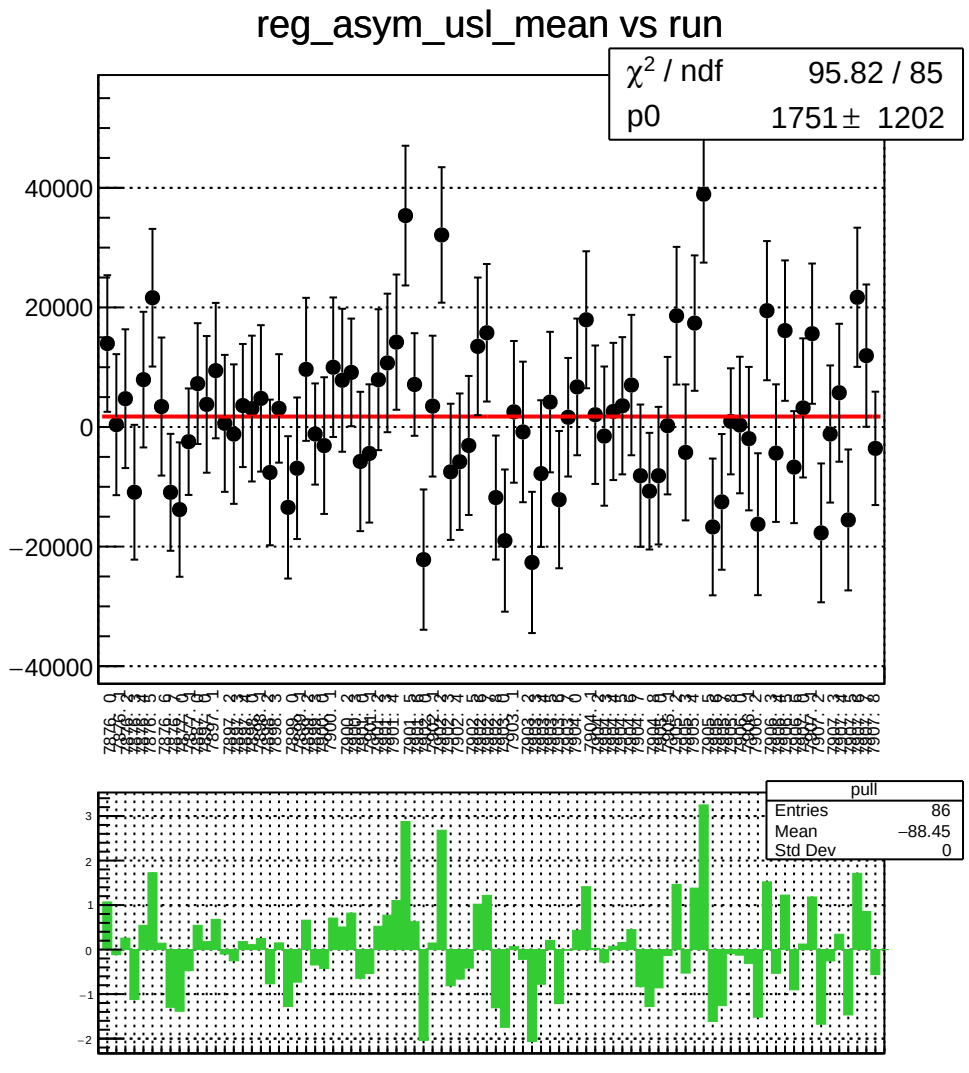

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.366e+05 / 85
p0 1.135e−10 ± 1.309e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

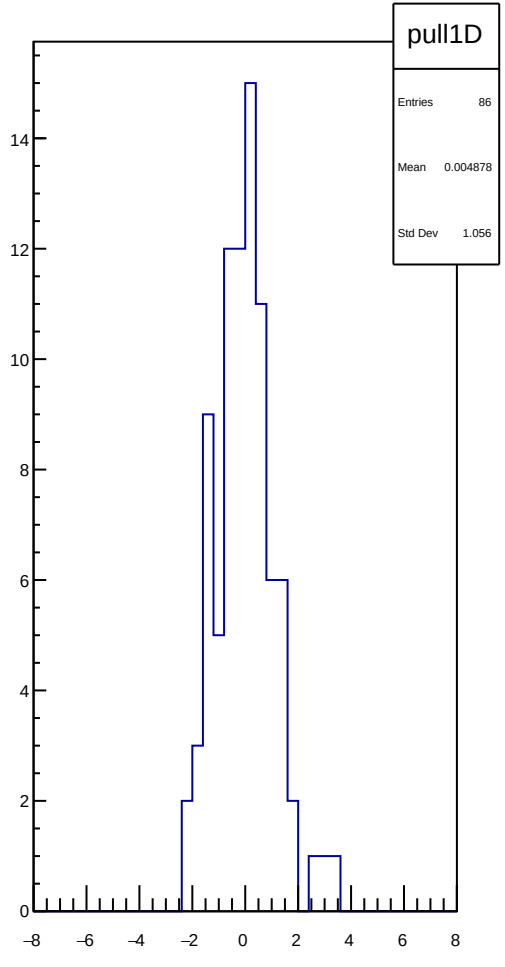

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 73.89 / 85
p0 0.03 ± 0.03014
pull
Entries 86
Mean −11.54
Std Dev 0
pull1D
Entries 86
Mean −0.03668
Std Dev 0.9262

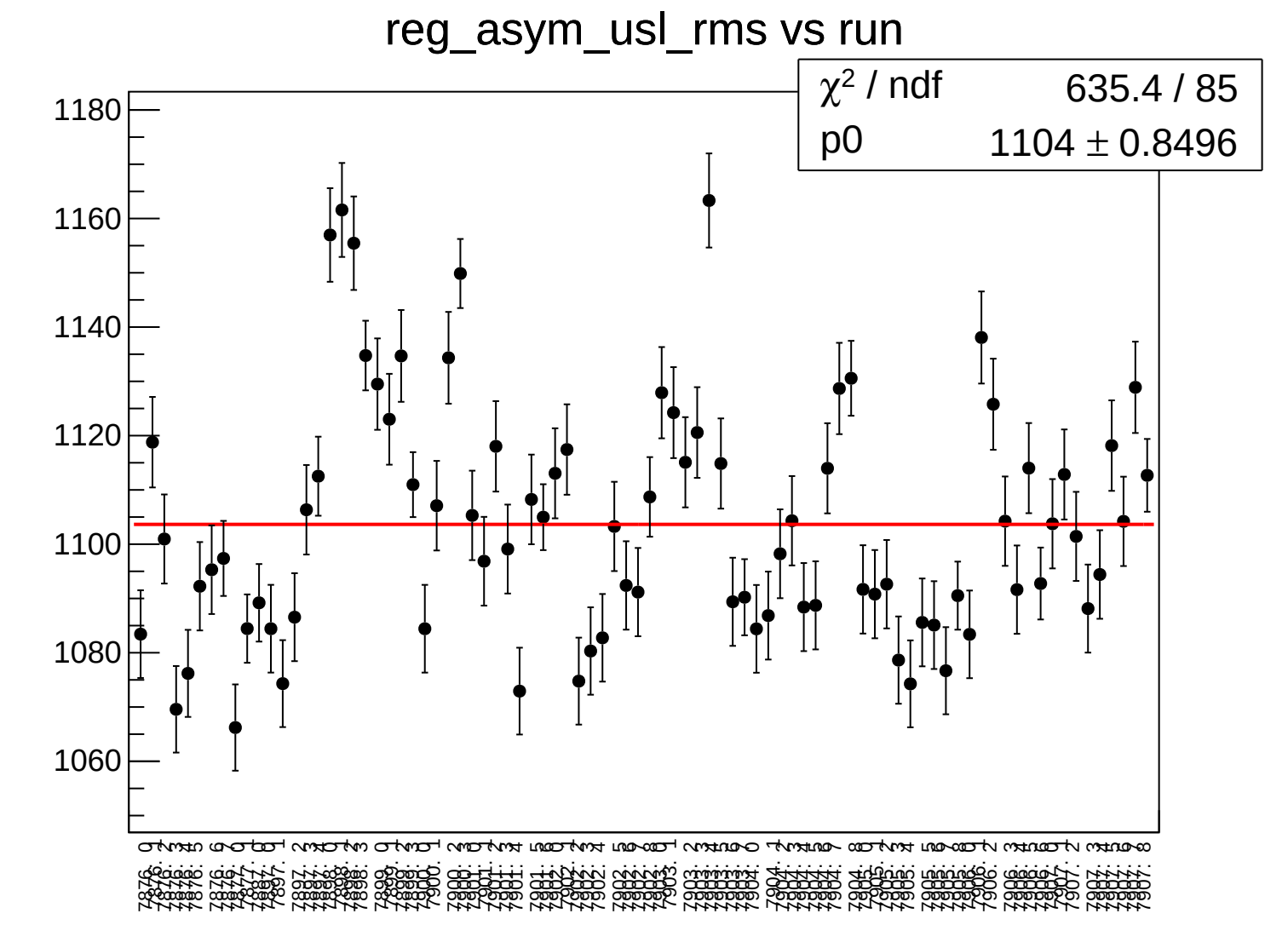

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 7.17e+04 / 85
p0 27.1 ± 0.02131
50
45
40
35
30
25
20

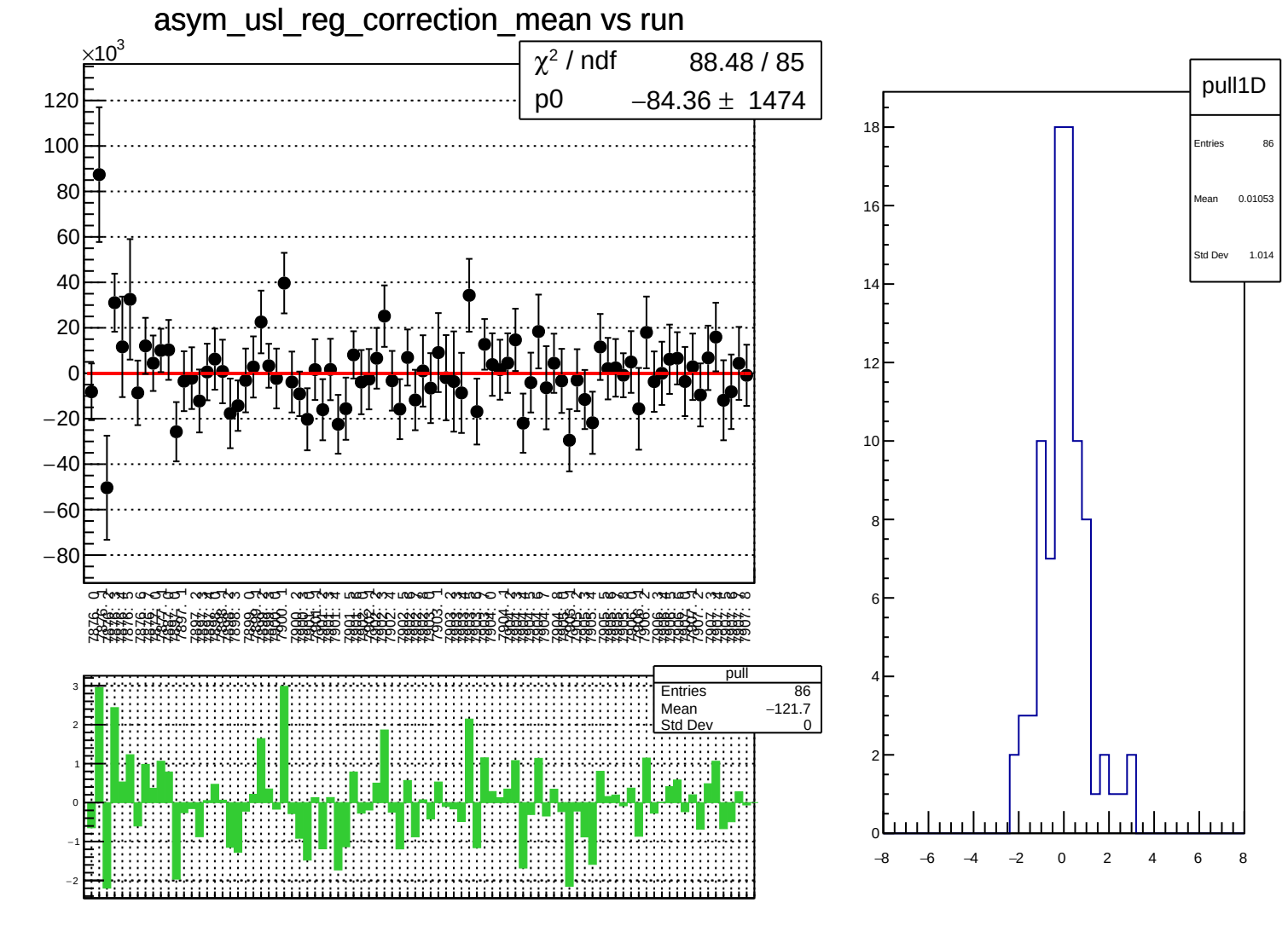

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.89 / 85
p0 0.03 ± 0.03014
pull
Entries 86
Mean −11.54
Std Dev 0
pull1D
Entries 86
Mean −0.03668
Std Dev 0.9262

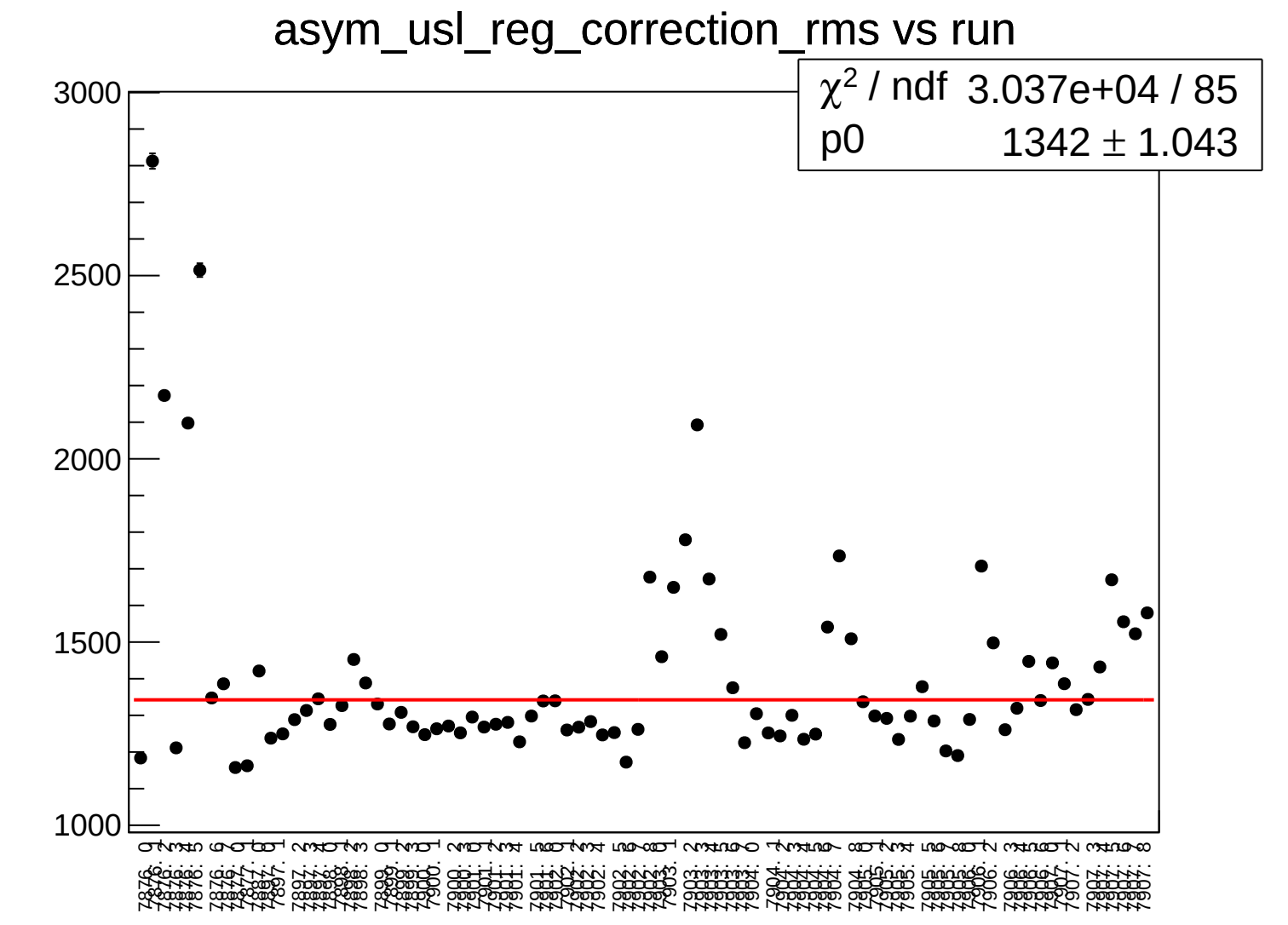

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.17e+04 / 85
p0 27.1 ± 0.02131
50
45
40
35
30
25
20

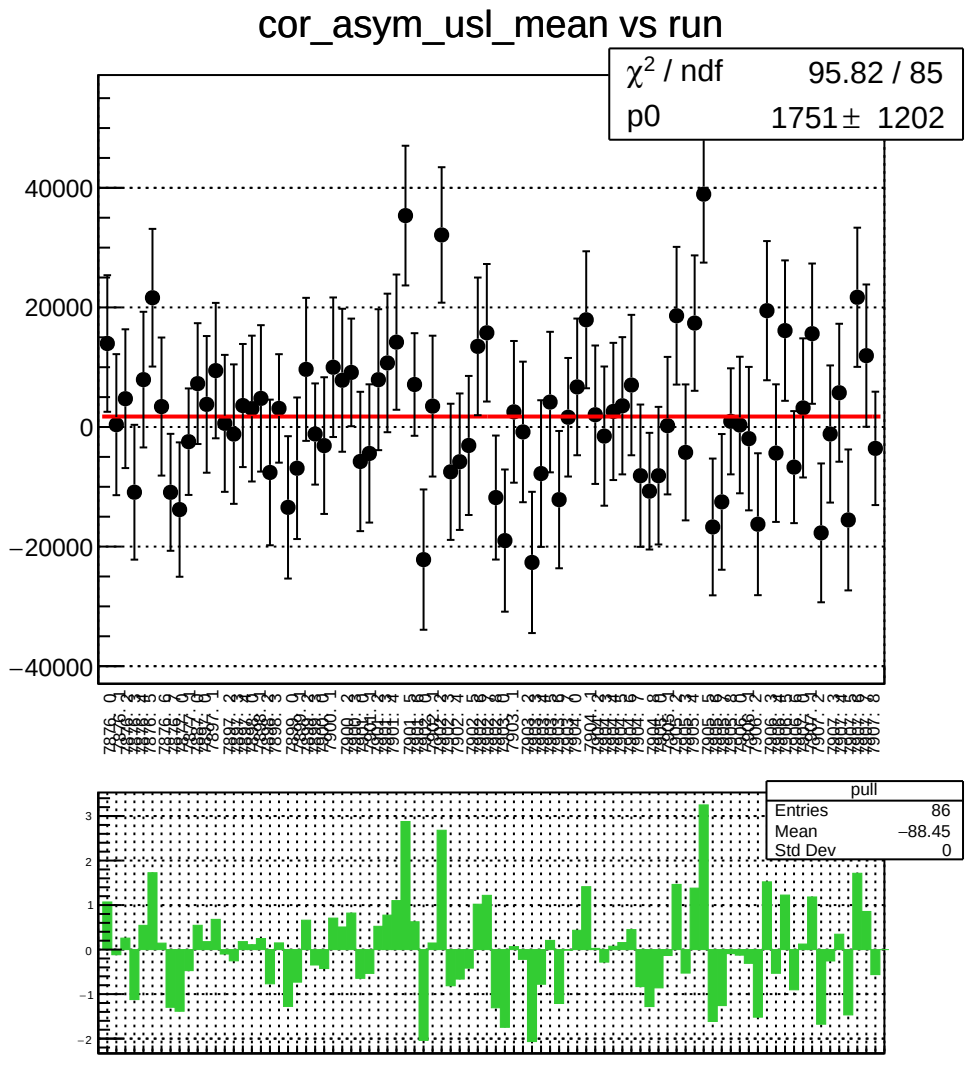

reg_asym_usl_mean vs run
χ² / ndf 95.82 / 85
p0 1751 ± 1202
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −88.45
Std Dev 0
3
2
1
0
−1
−2

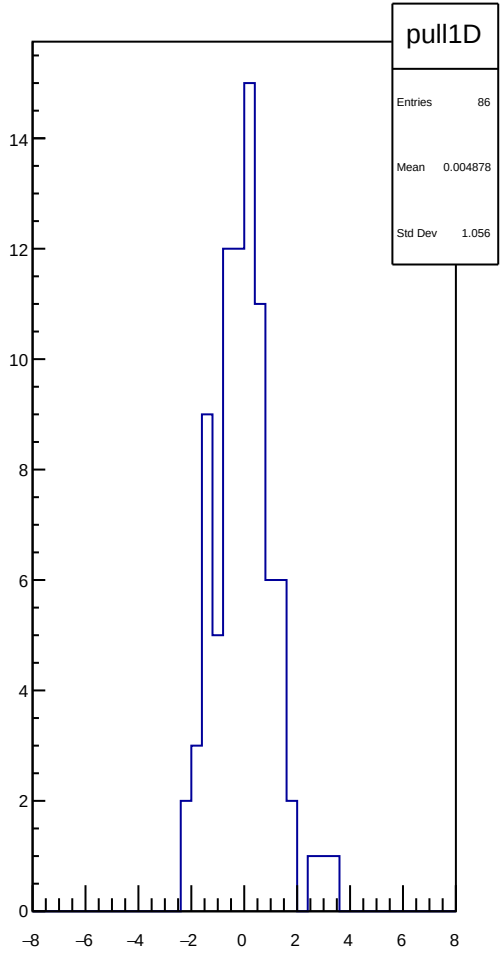

pull1D
Entries 86
Mean 0.004878
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

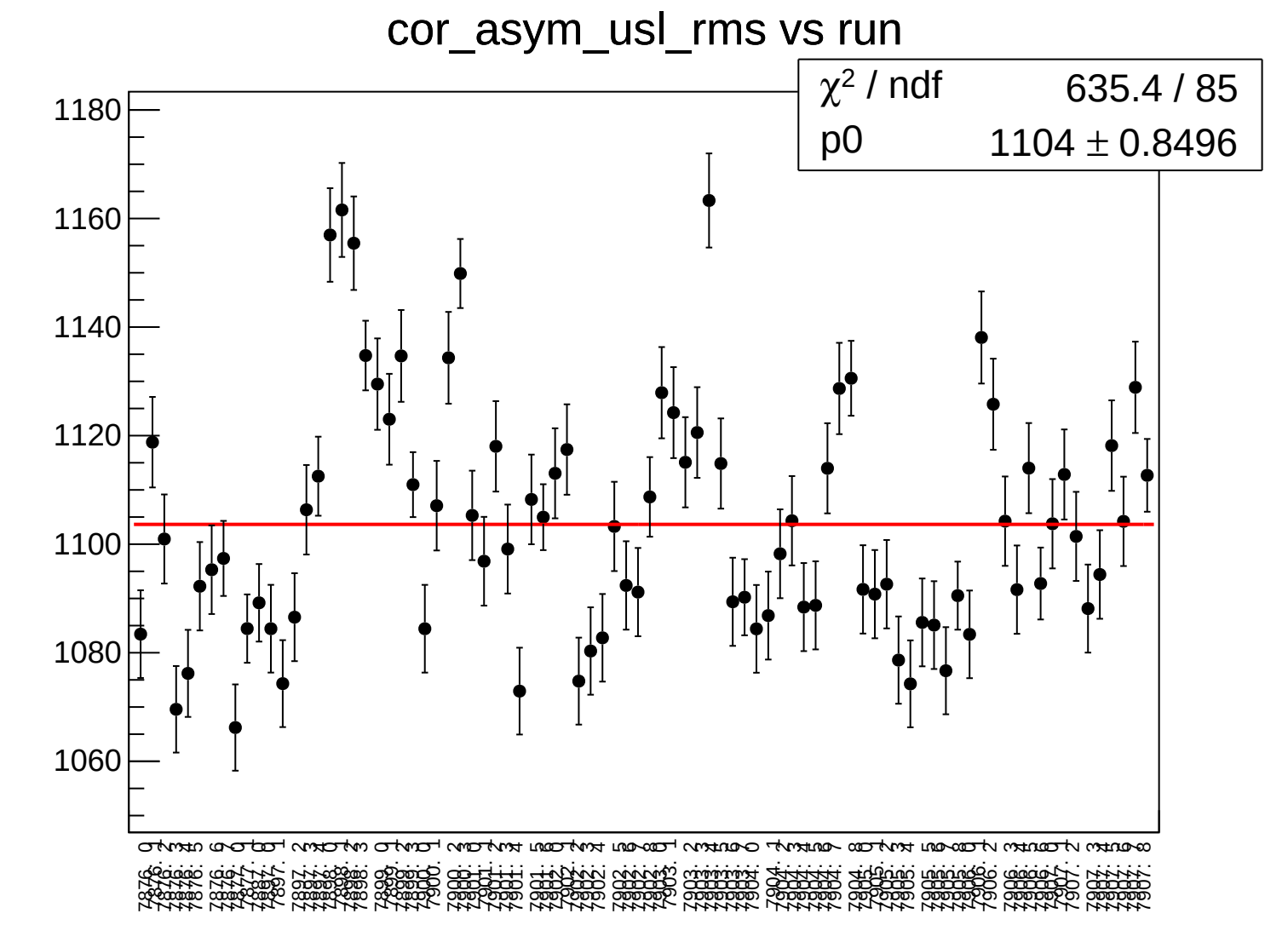

reg_asym_usl_rms vs run
χ² / ndf 635.4 / 85
p0 1104 ± 0.8496
1180
1160
1140
1120
1100
1080
1060

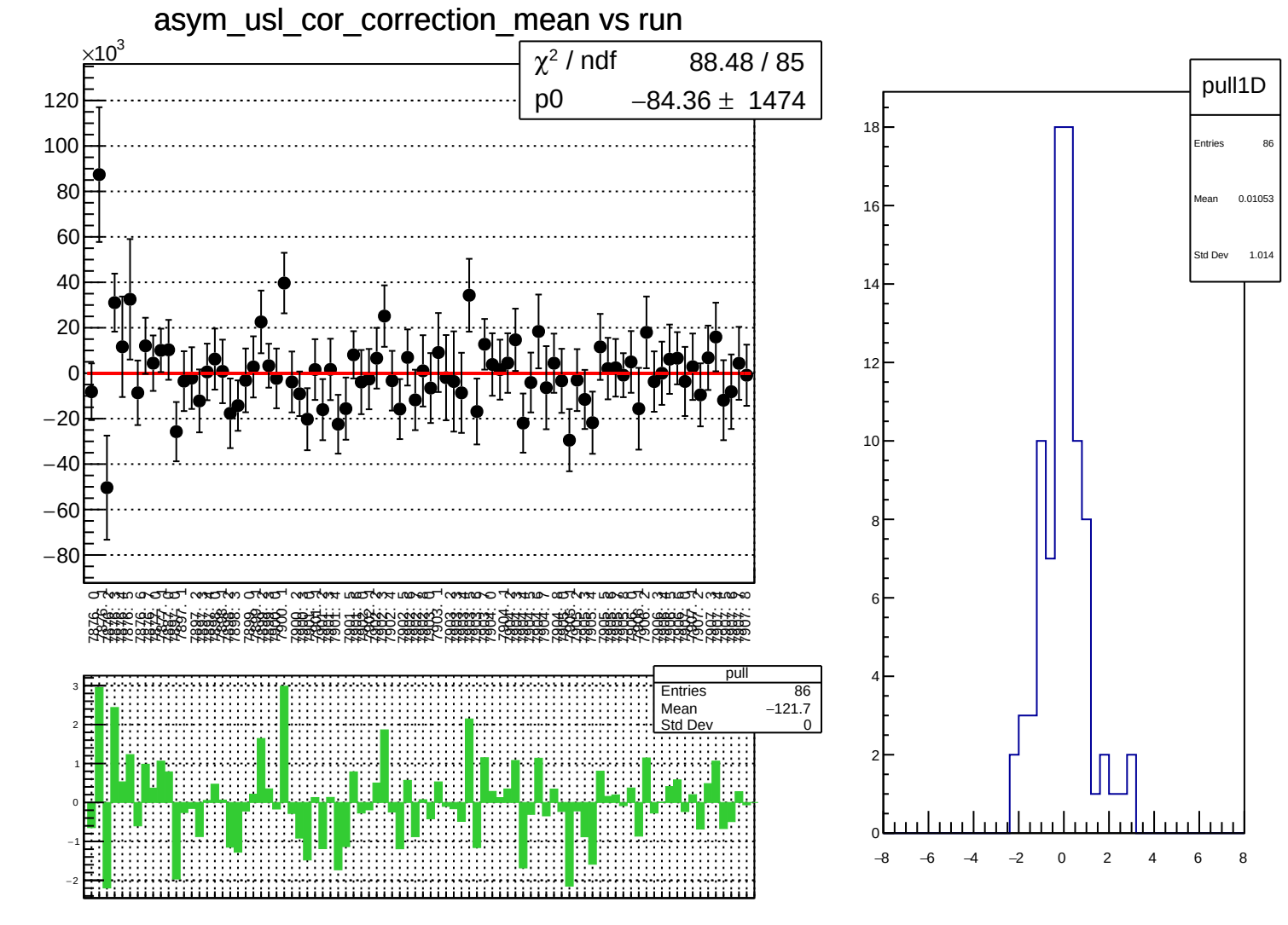

asym_usl_reg_correction_mean vs run
χ² / ndf 88.48 / 85
p0 −84.36 ± 1474
×10³
pull
Entries 86
Mean −121.7
Std Dev 0
pull1D
Entries 86
Mean 0.01053
Std Dev 1.014

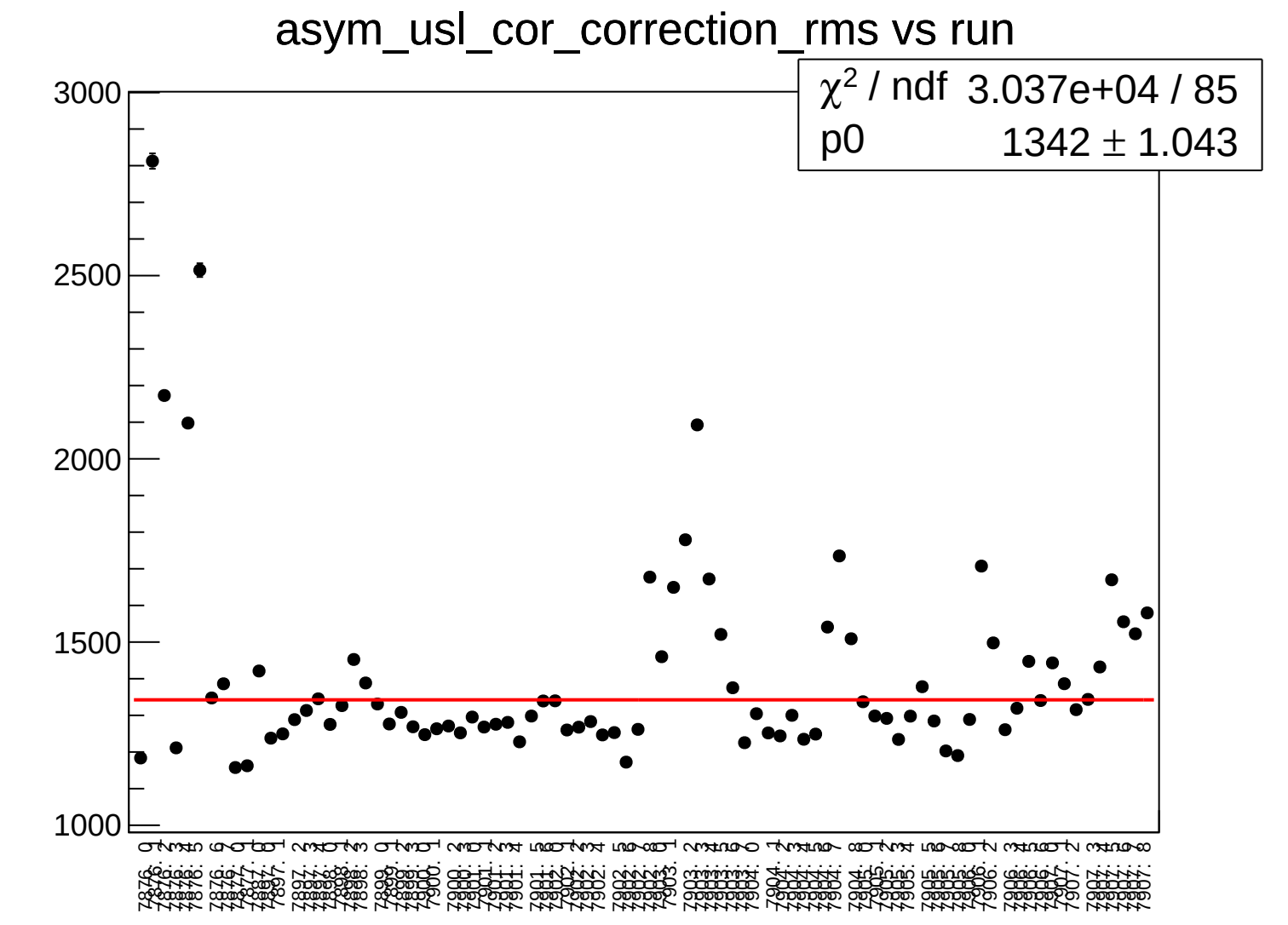

asym_usl_reg_correction_rms vs run
χ² / ndf 3.037e+04 / 85
p0 1342 ± 1.043
3000
2500
2000
1500
1000

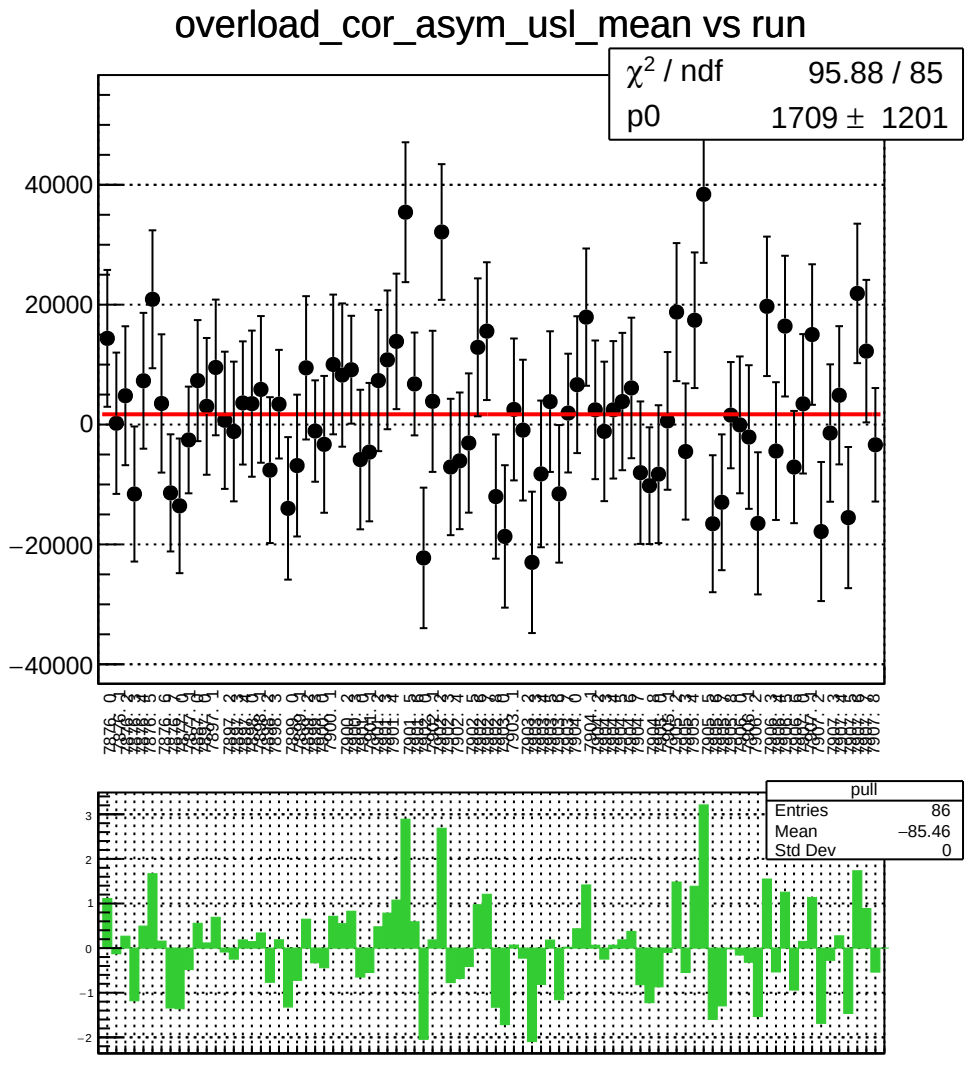

cor_asym_usl_mean vs run
χ² / ndf 95.82 / 85
p0 1751 ± 1202
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −88.45
Std Dev 0
3
2
1
0
−1
−2

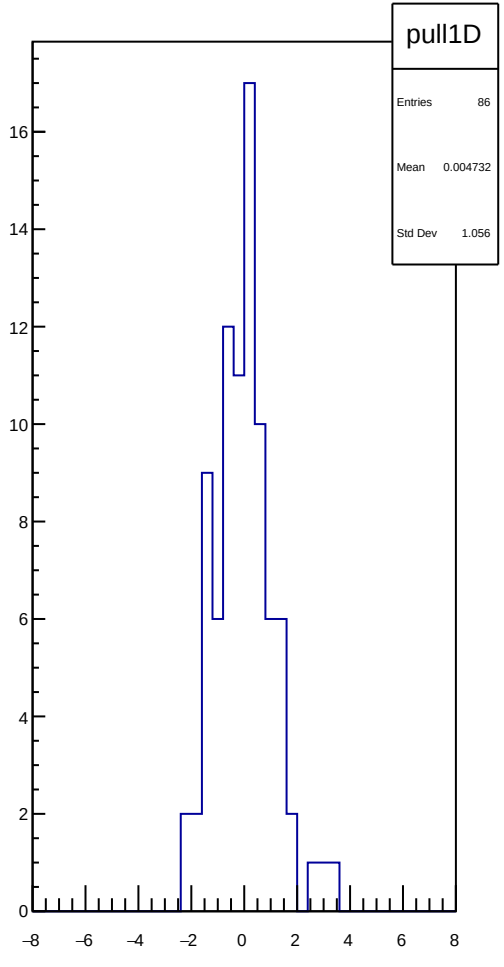

pull1D
Entries 86
Mean 0.004878
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

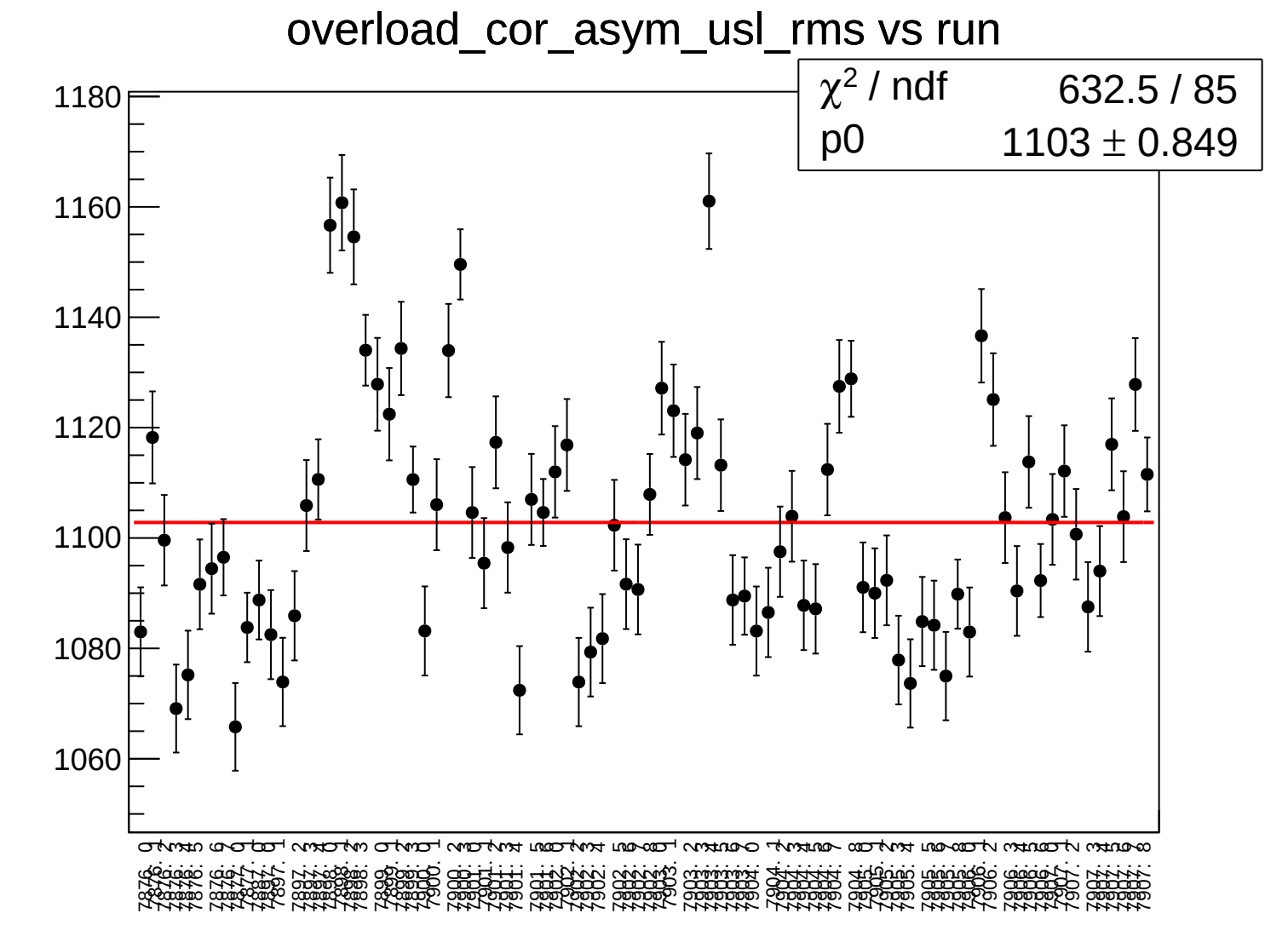

cor_asym_usl_rms vs run
χ^2 / ndf 635.4 / 85
p0 1104 ± 0.8496
1180
1160
1140
1120
1100
1080
1060

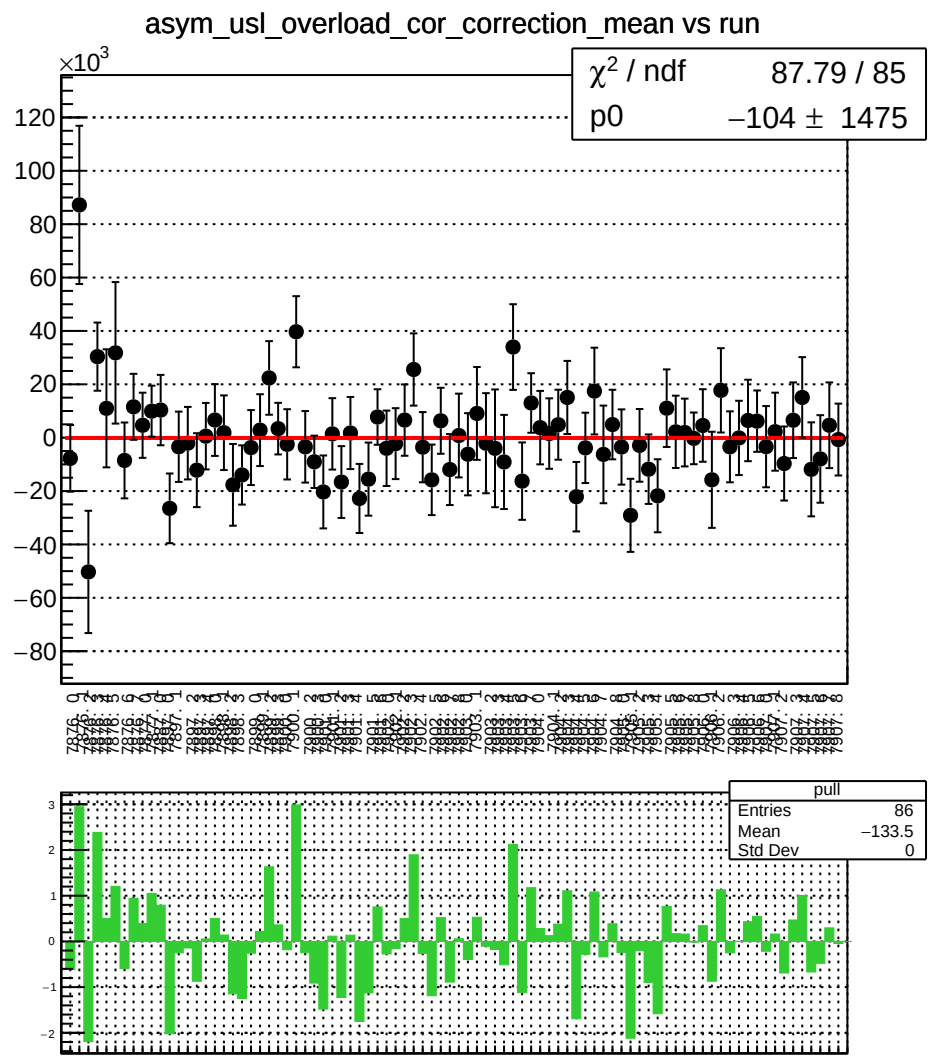

asym_usl_cor_correction_mean vs run
χ² / ndf 88.48 / 85
p0 −84.36 ± 1474
×10³
pull
Entries 86
Mean −121.7
Std Dev 0
pull1D
Entries 86
Mean 0.01053
Std Dev 1.014

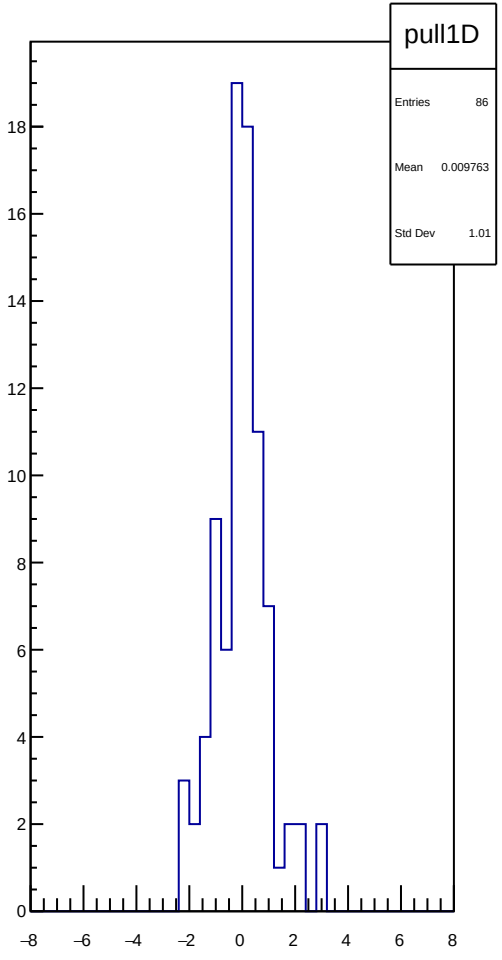

asym_usl_cor_correction_rms vs run
χ² / ndf 3.037e+04 / 85
p0 1342 ± 1.043
3000
2500
2000
1500
1000

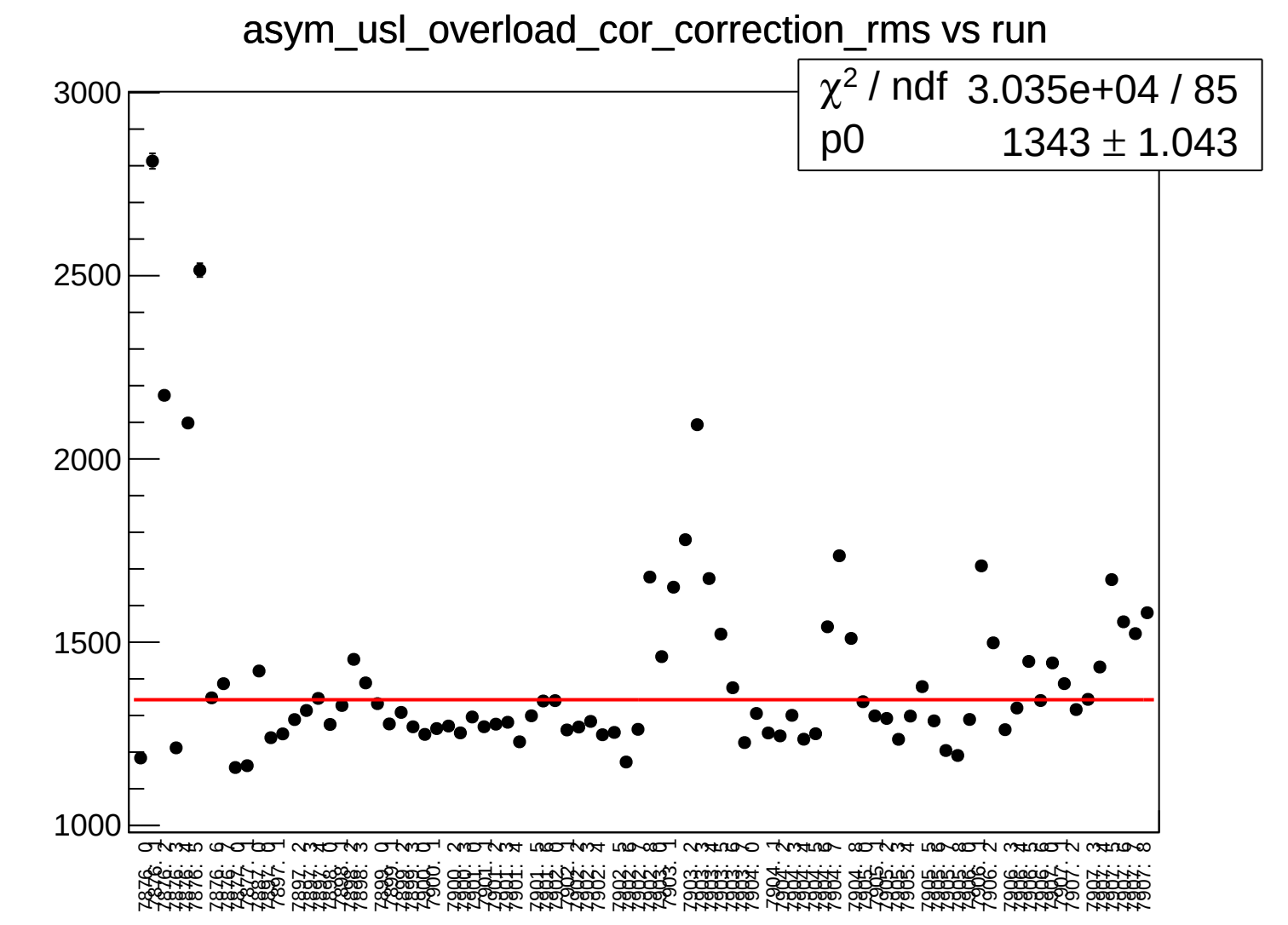

overload_cor_asym_usl_mean vs run
χ² / ndf 95.88 / 85
p0 1709 ± 1201
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −85.46
Std Dev 0
3
2
1
0
−1
−2

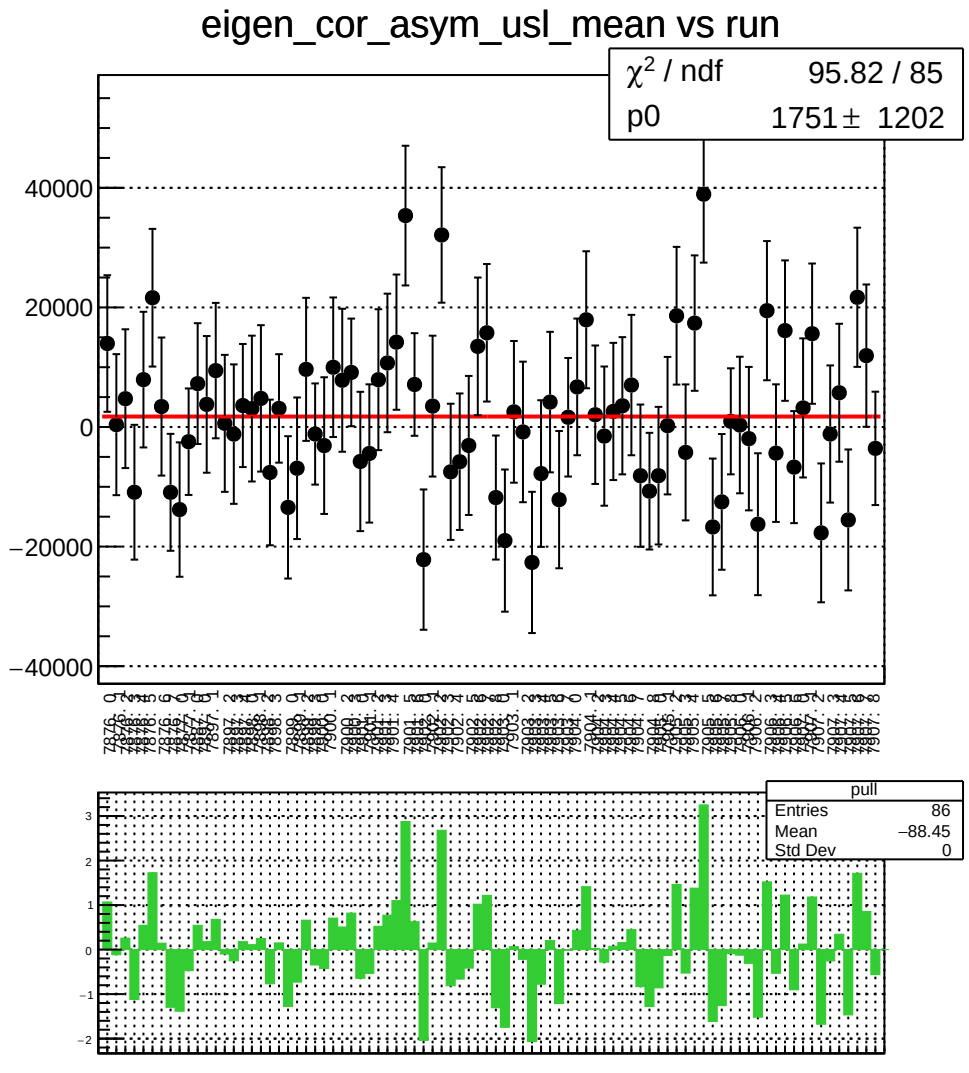

pull1D
Entries 86
Mean 0.004732
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

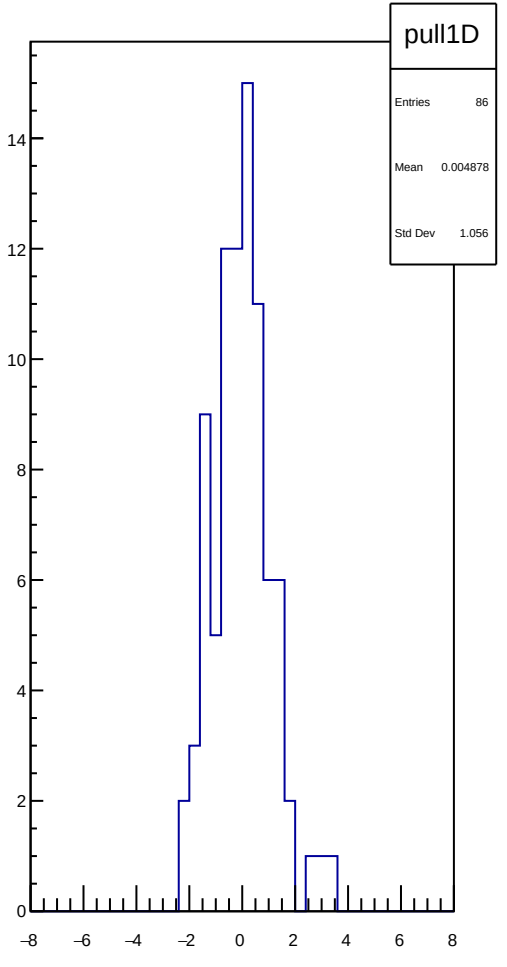

overload_cor_asym_usl_rms vs run
χ² / ndf 632.5 / 85
p0 1103 ± 0.849
1180
1160
1140
1120
1100
1080
1060

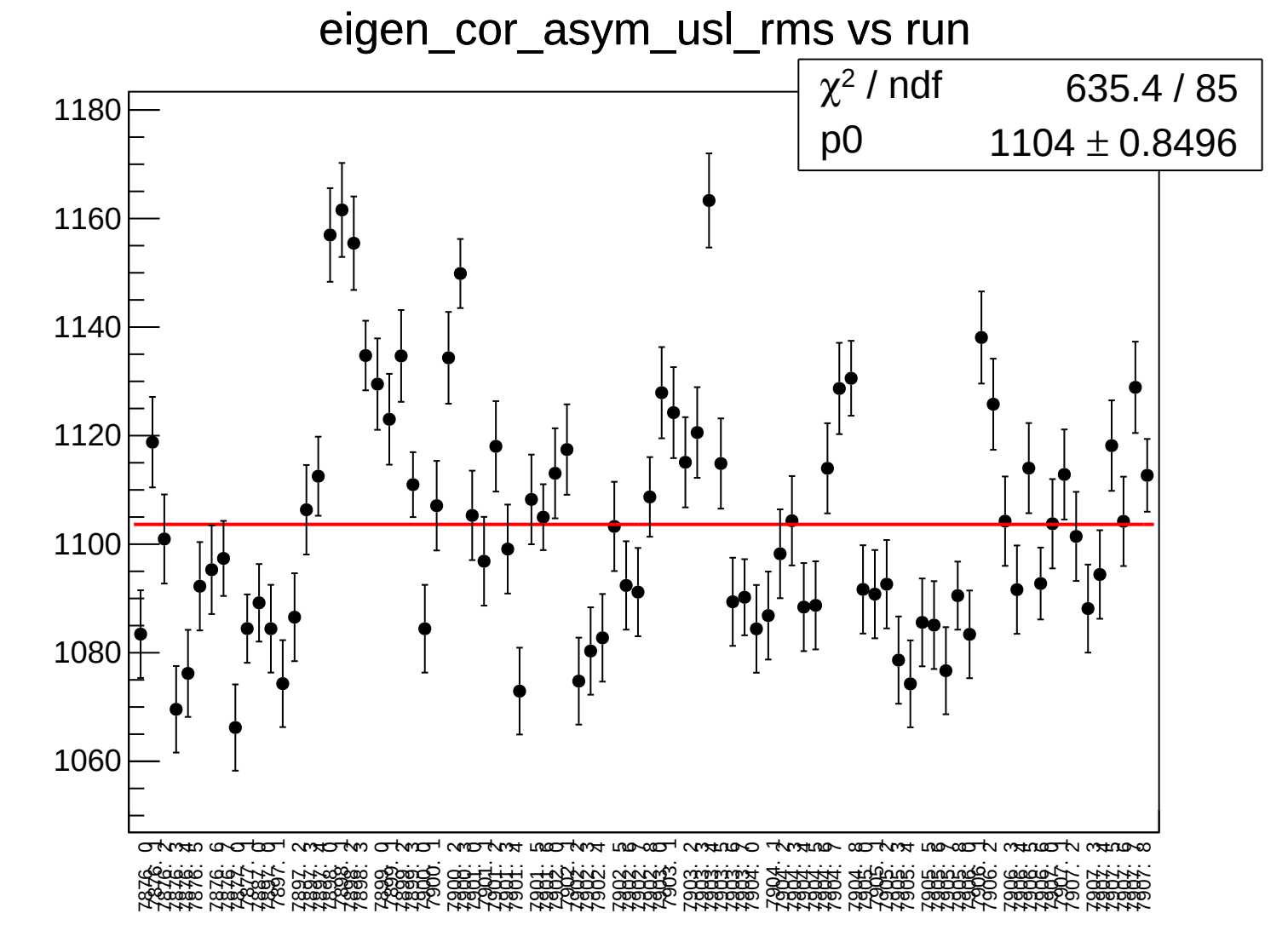

asym_usl_overload_cor_correction_mean vs run
×10^3
χ² / ndf 87.79 / 85
p0 −104 ± 1475
pull
Entries 86
Mean −133.5
Std Dev 0

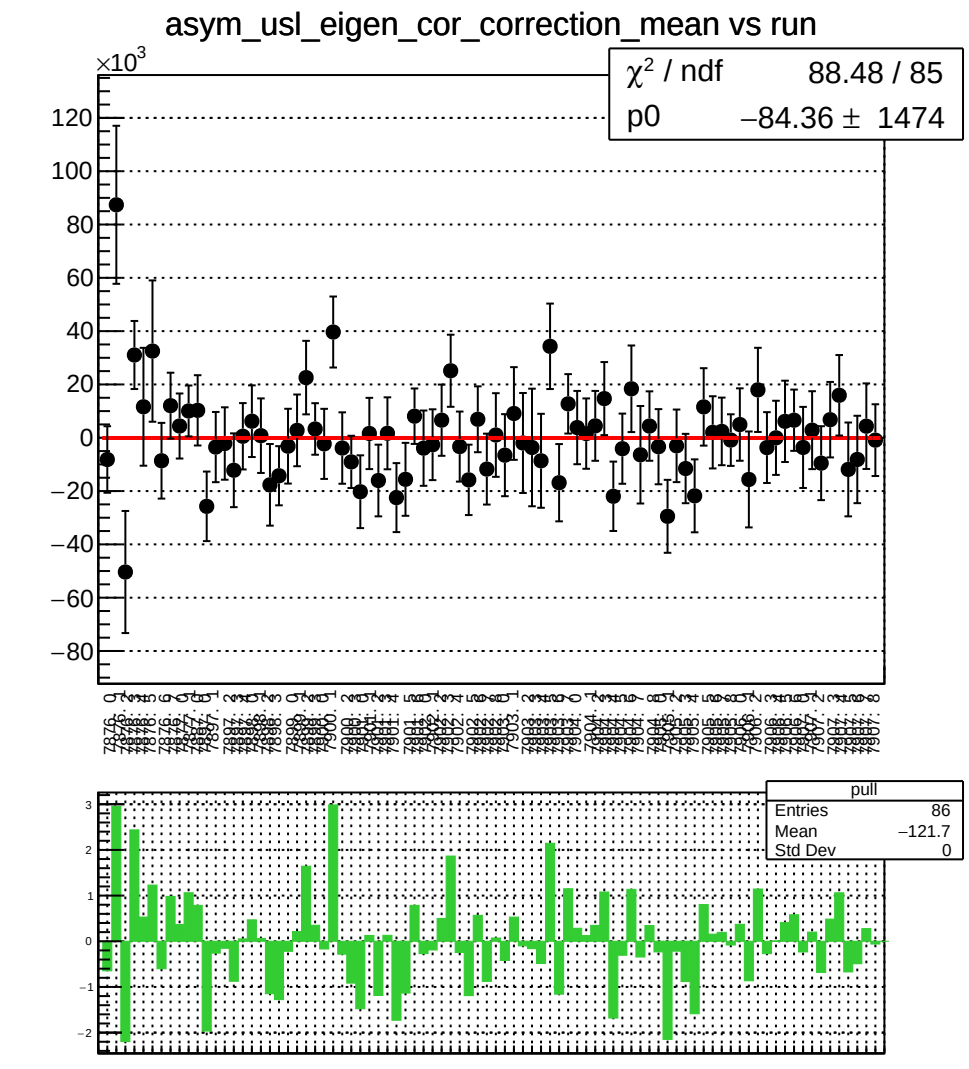

pull1D
Entries 86
Mean 0.009763
Std Dev 1.01

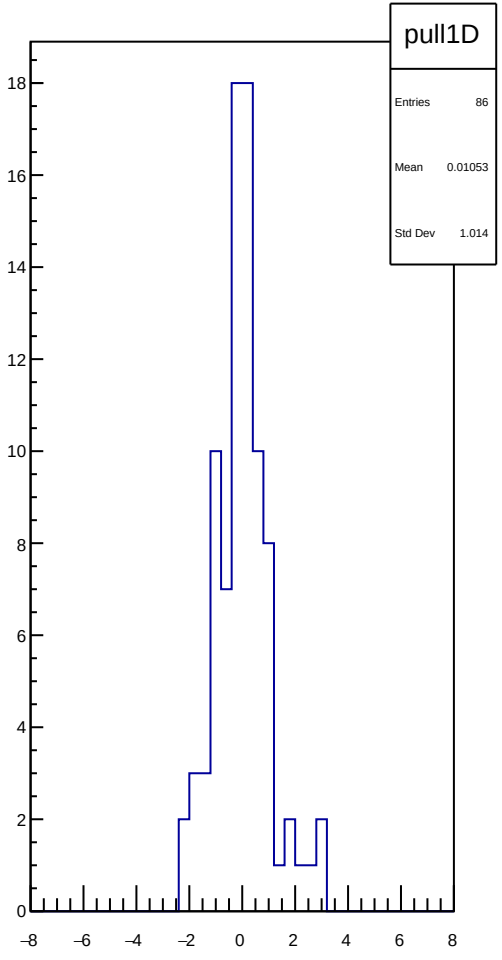

asym_usl_overload_cor_correction_rms vs run
χ^2 / ndf 3.035e+04 / 85
p0 1343 ± 1.043
3000
2500
2000
1500
1000

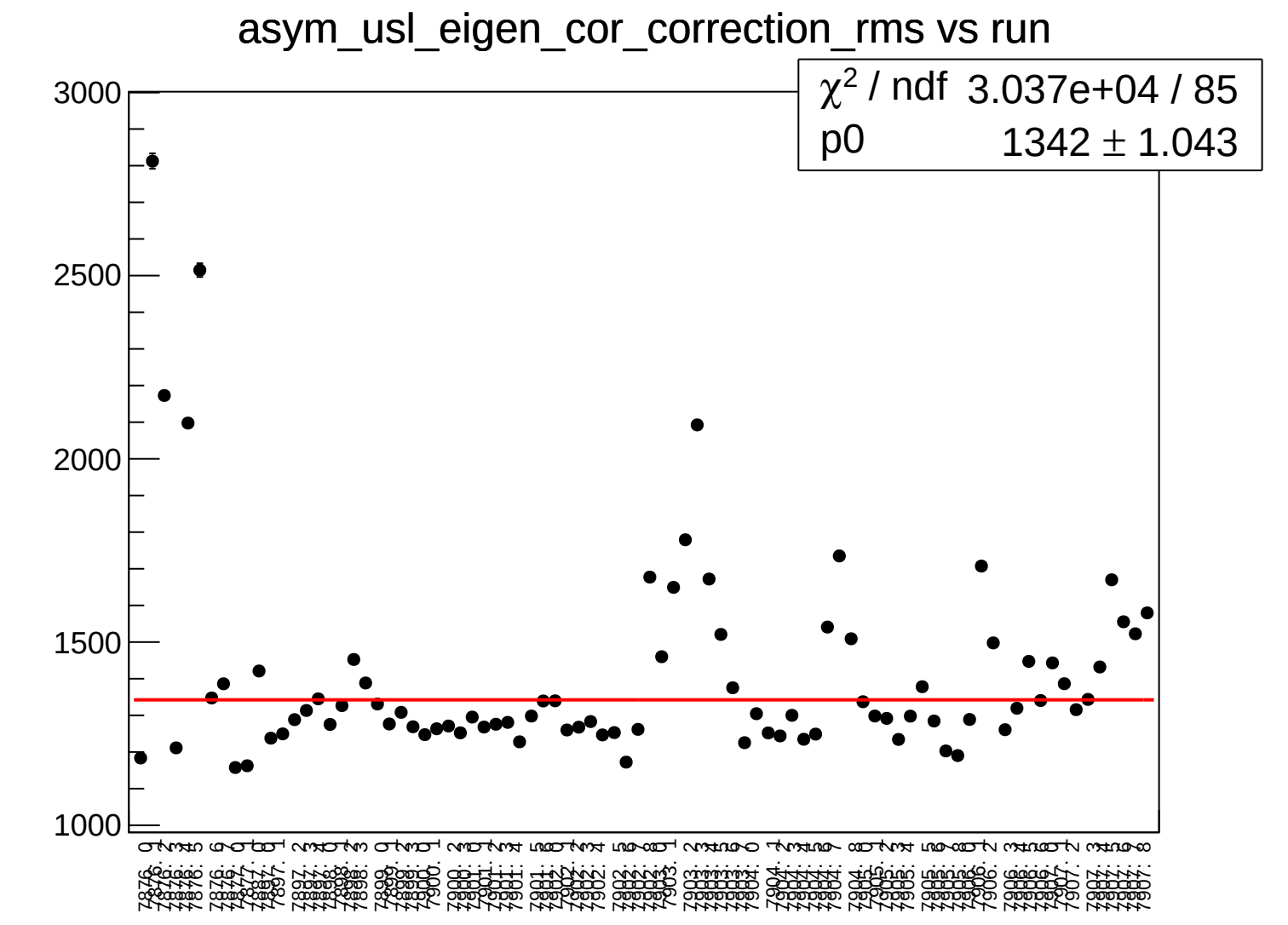

eigen_cor_asym_usl_mean vs run
χ² / ndf 95.82 / 85
p0 1751 ± 1202
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −88.45
Std Dev 0
3
2
1
0
−1
−2

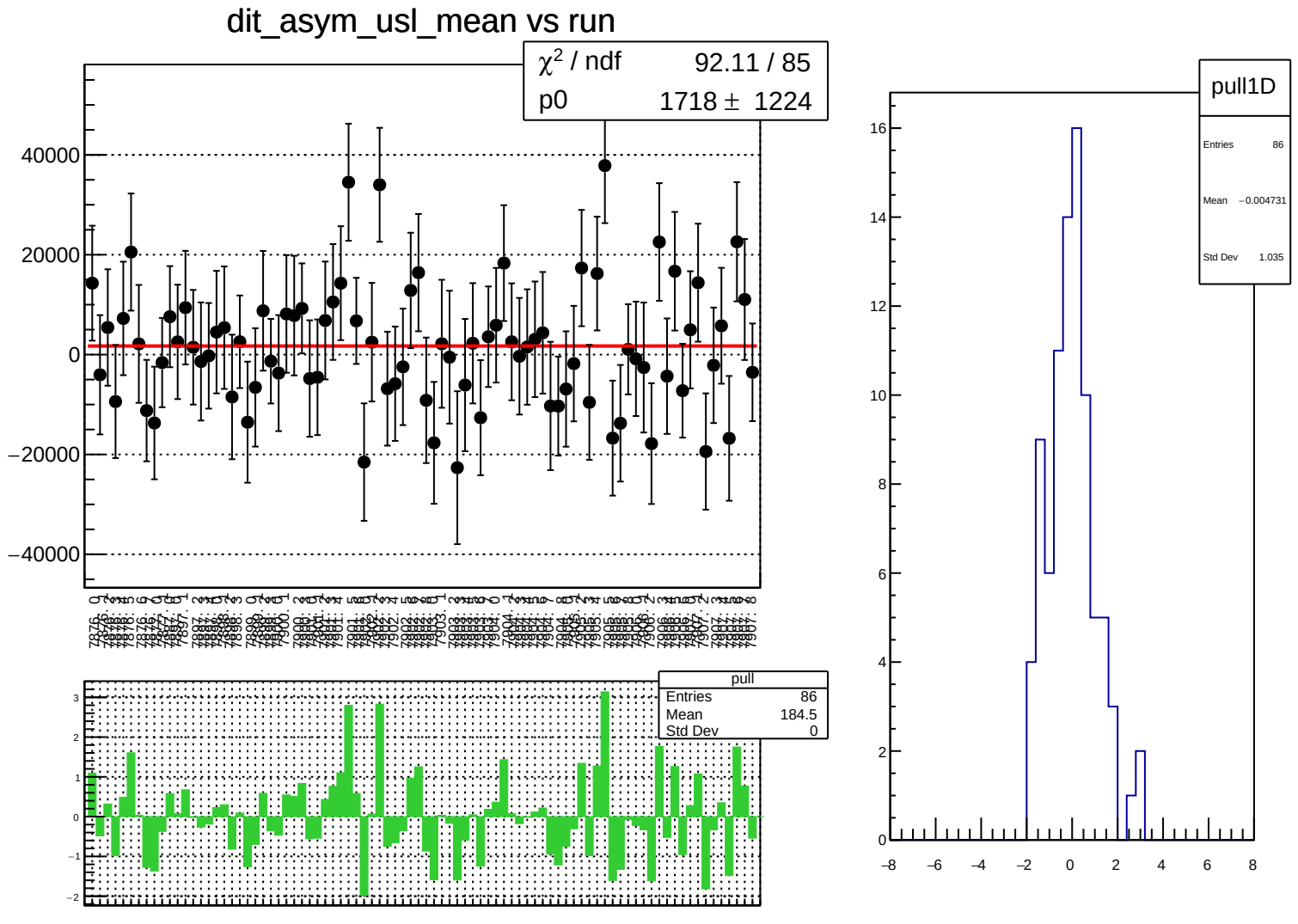

pull1D
Entries 86
Mean 0.004878
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

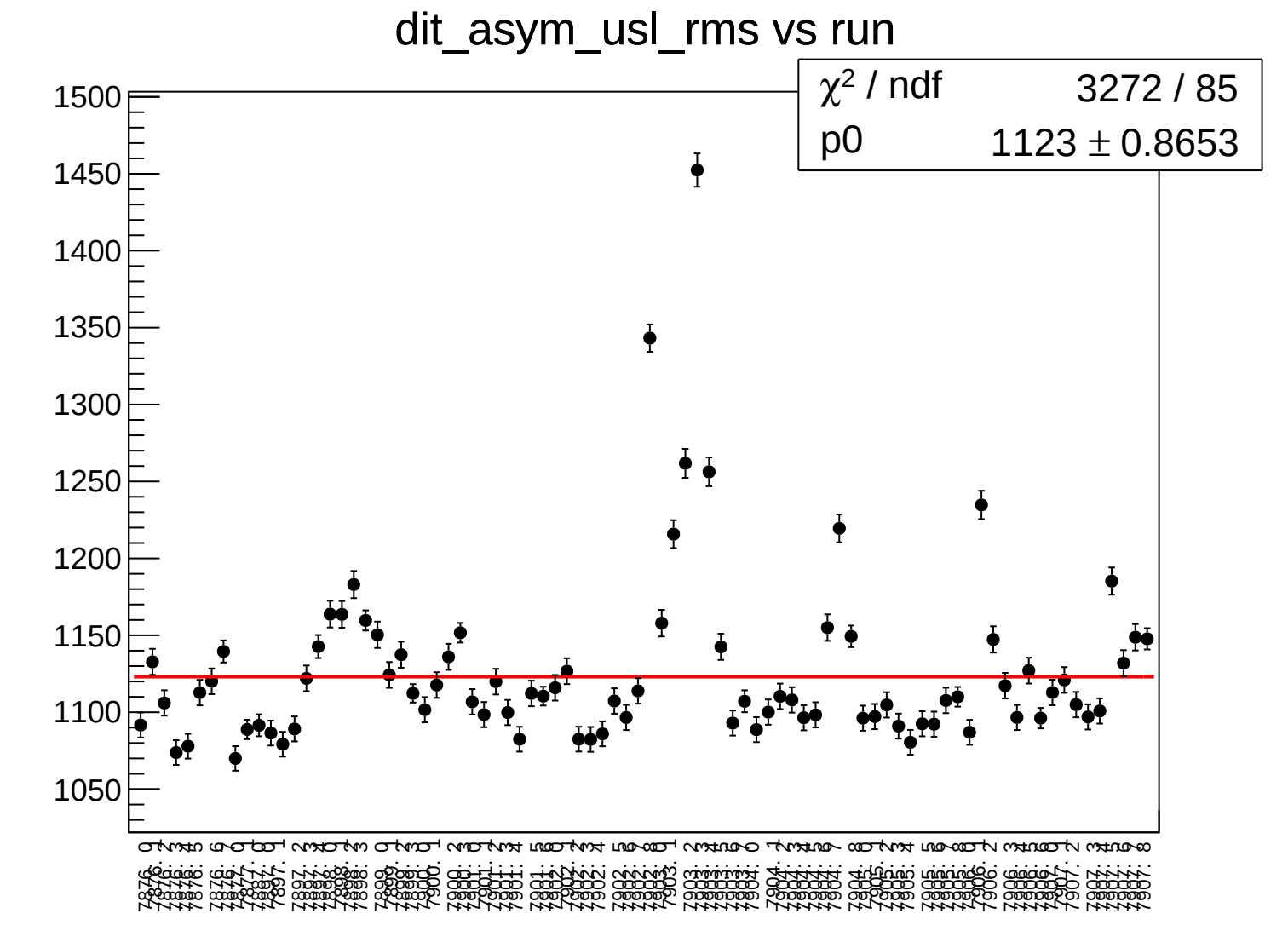

eigen_cor_asym_usl_rms vs run
χ² / ndf 635.4 / 85
p0 1104 ± 0.8496
1180
1160
1140
1120
1100
1080
1060

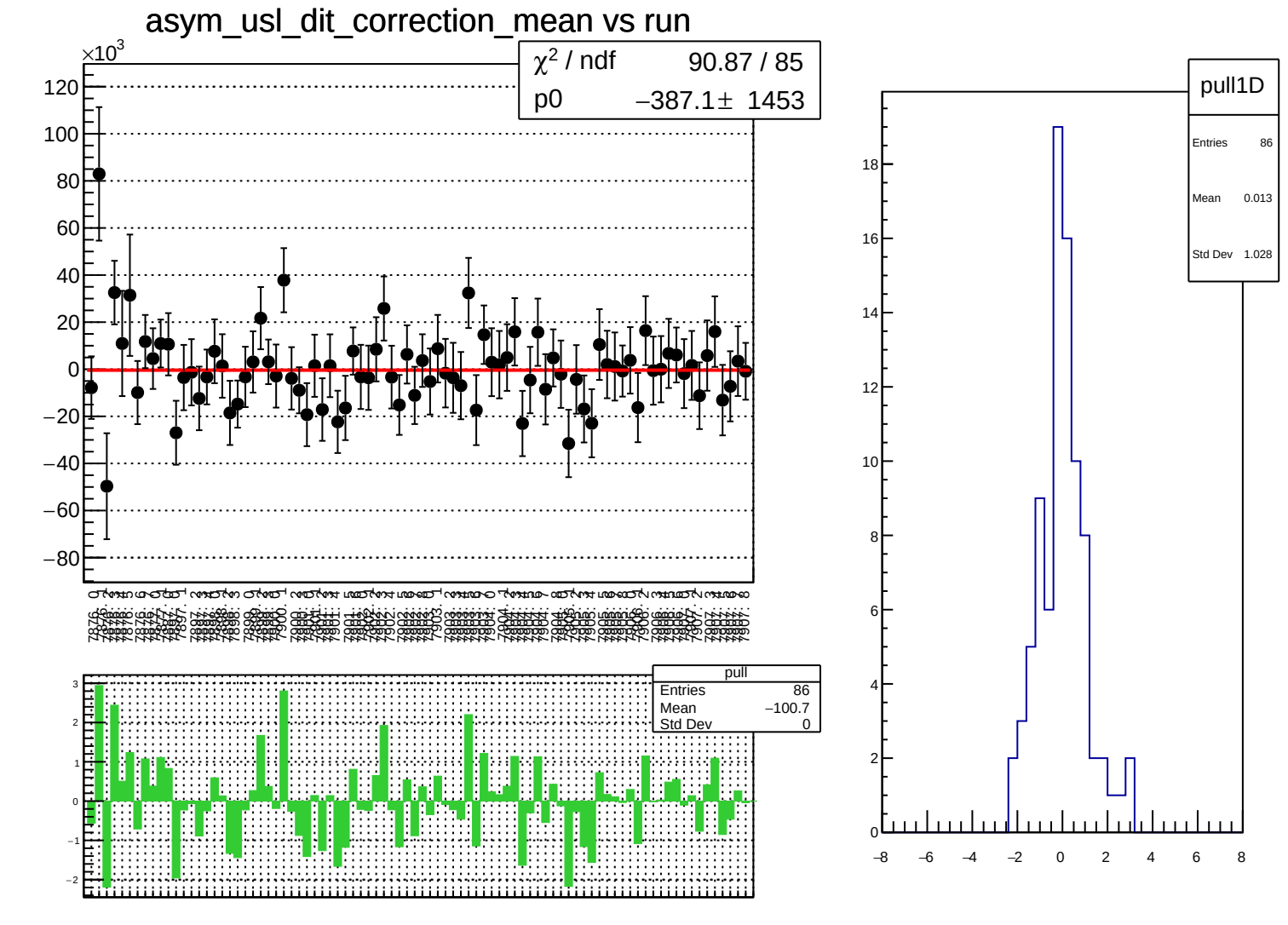

asym_usl_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.48 / 85
p0 −84.36 ± 1474
pull
Entries 86
Mean −121.7
Std Dev 0

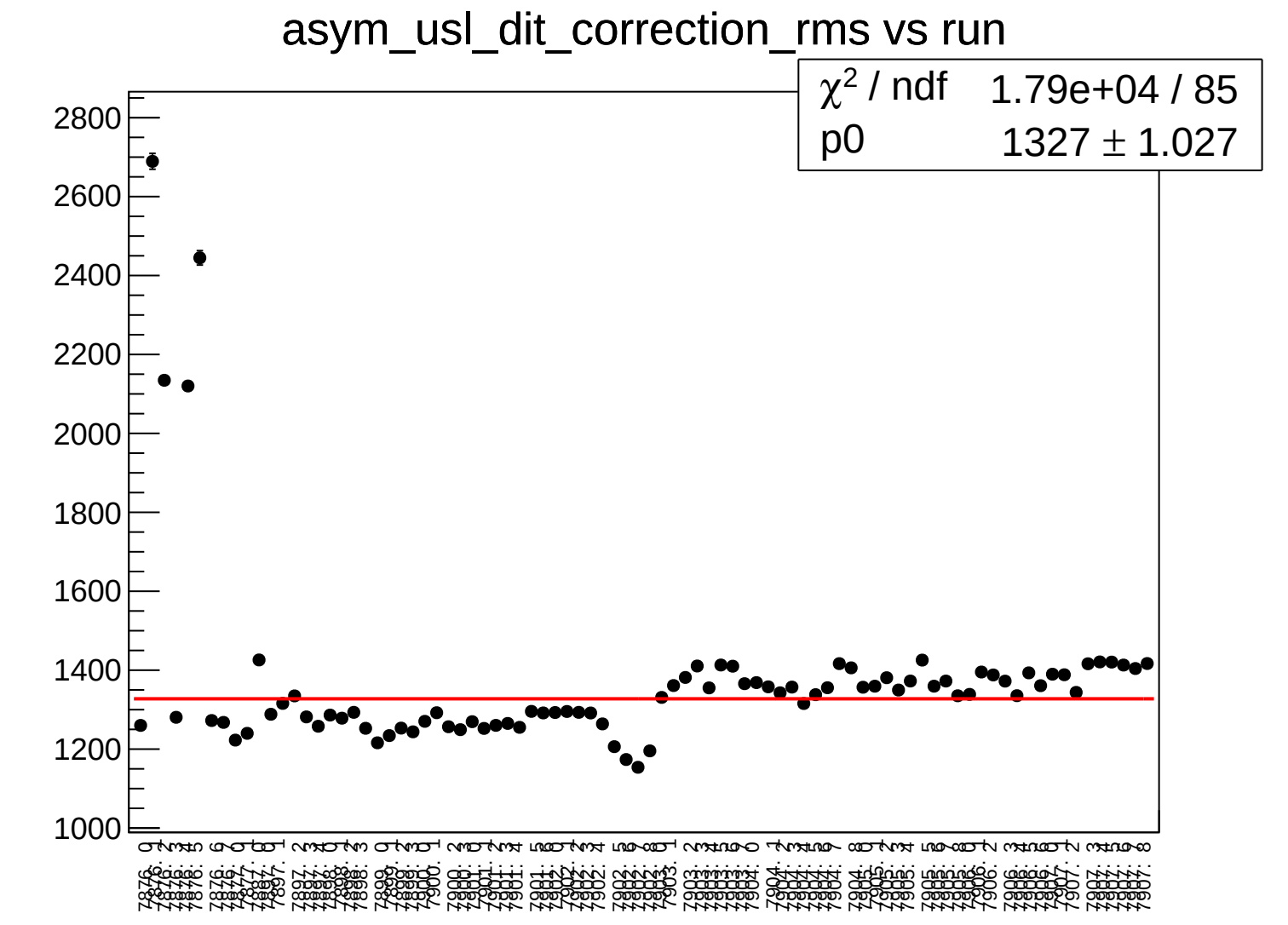

pull1D
Entries 86
Mean 0.01053
Std Dev 1.014

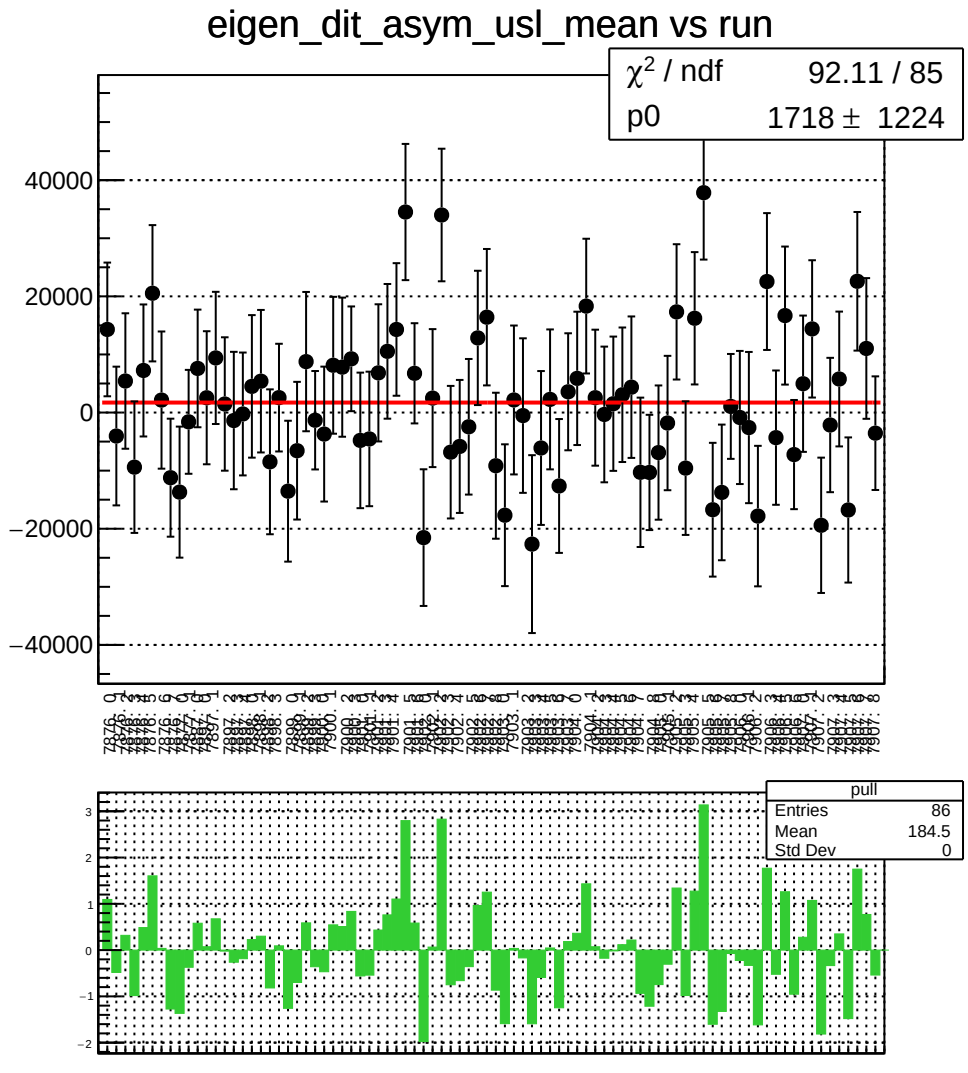

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 3.037e+04 / 85
p0 1342 ± 1.043
3000
2500
2000
1500
1000

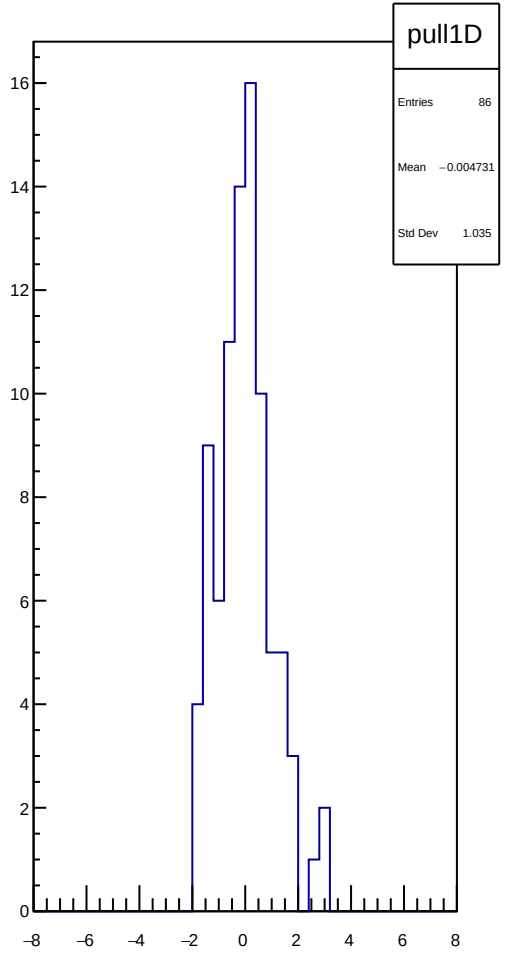

dit_asym_usl_mean vs run
χ² / ndf 92.11 / 85
p0 1718 ± 1224
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 184.5
Std Dev 0
pull1D
Entries 86
Mean −0.004731
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

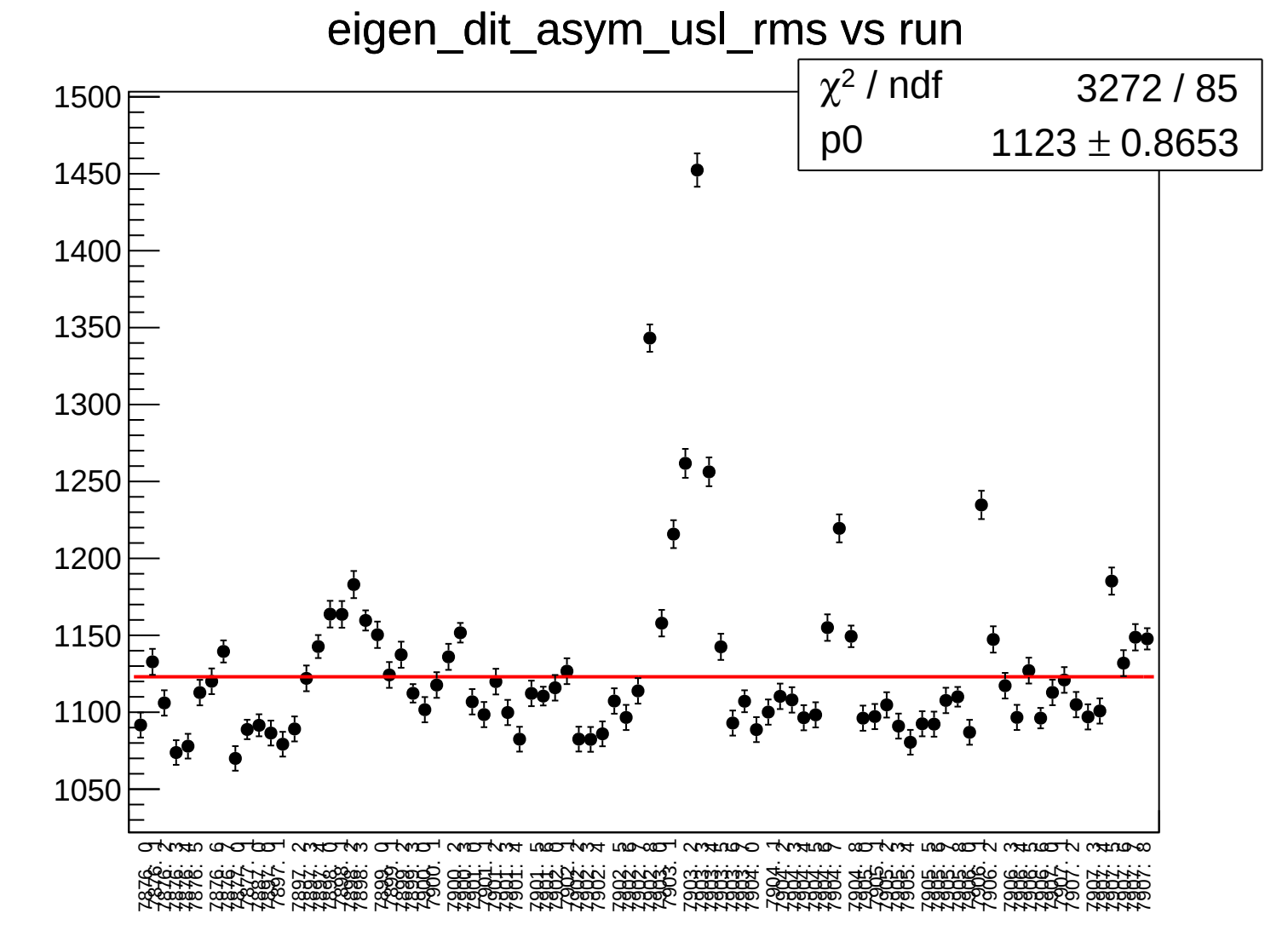

dit_asym_usl_rms vs run
χ^2 / ndf 3272 / 85
p0 1123 ± 0.8653
1500
1450
1400
1350
1300
1250
1200
1150
1100
1050

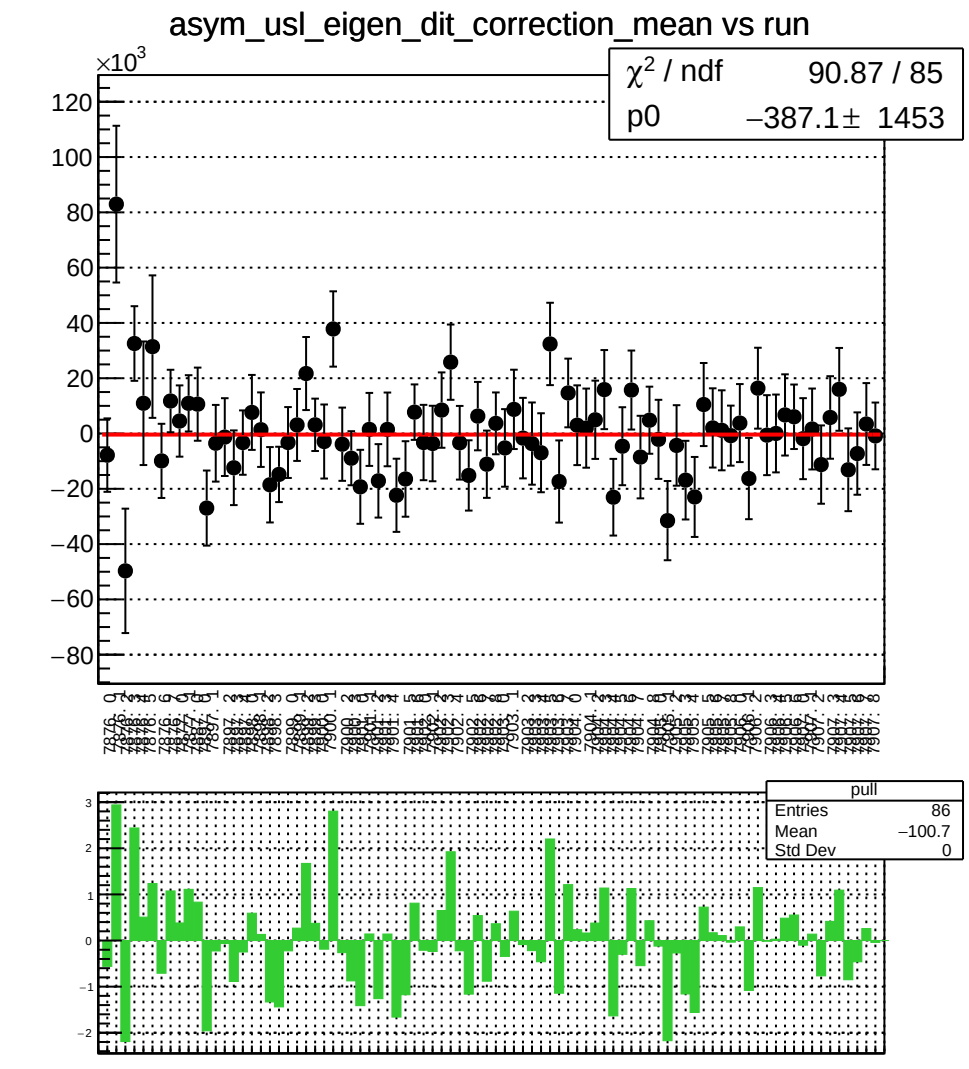

asym_usl_dit_correction_mean vs run
χ² / ndf 90.87 / 85
p0 −387.1± 1453
×10³
pull
Entries 86
Mean −100.7
Std Dev 0
pull1D
Entries 86
Mean 0.013
Std Dev 1.028

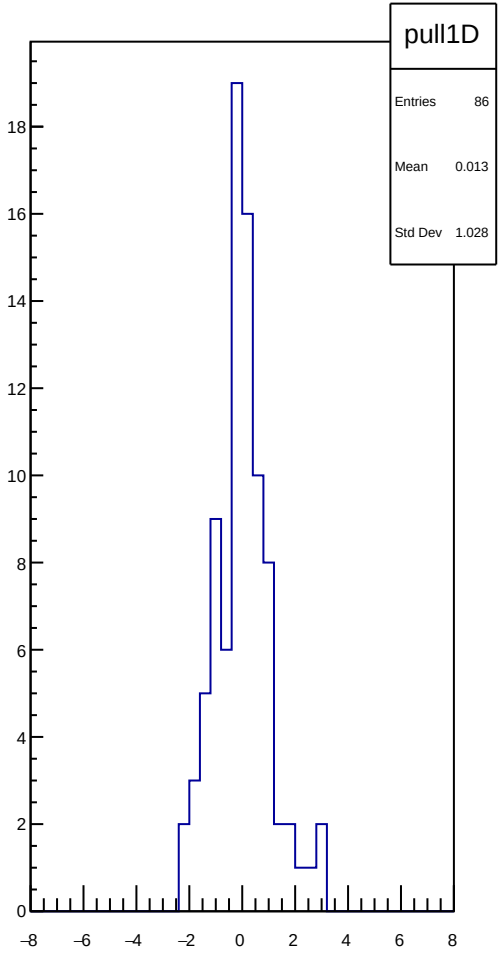

asym_usl_dit_correction_rms vs run
χ² / ndf 1.79e+04 / 85
p0 1327 ± 1.027
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000

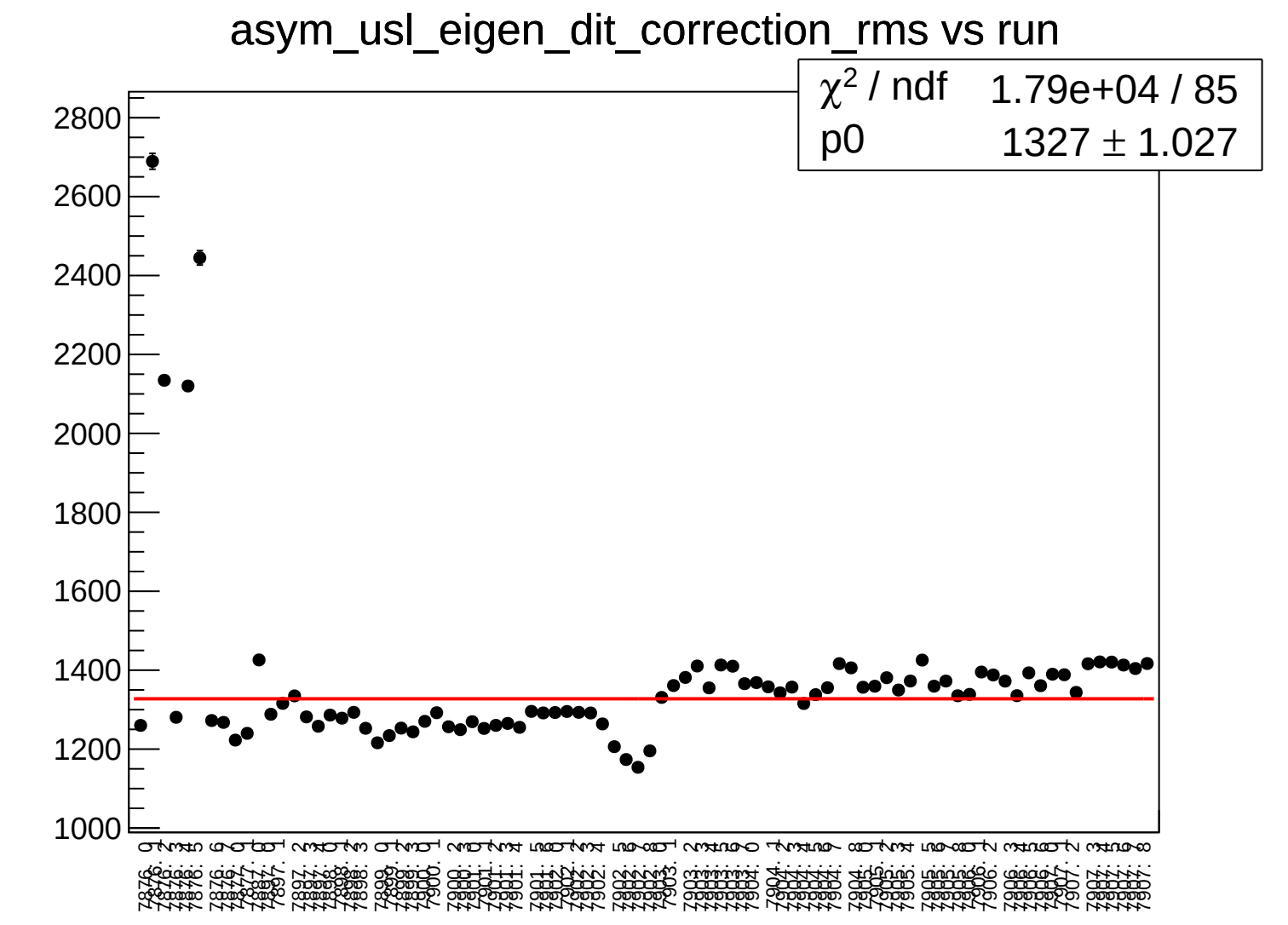

eigen_dit_asym_usl_mean vs run
χ² / ndf 92.11 / 85
p0 1718 ± 1224
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 184.5
Std Dev 0
3
2
1
0
−1
−2

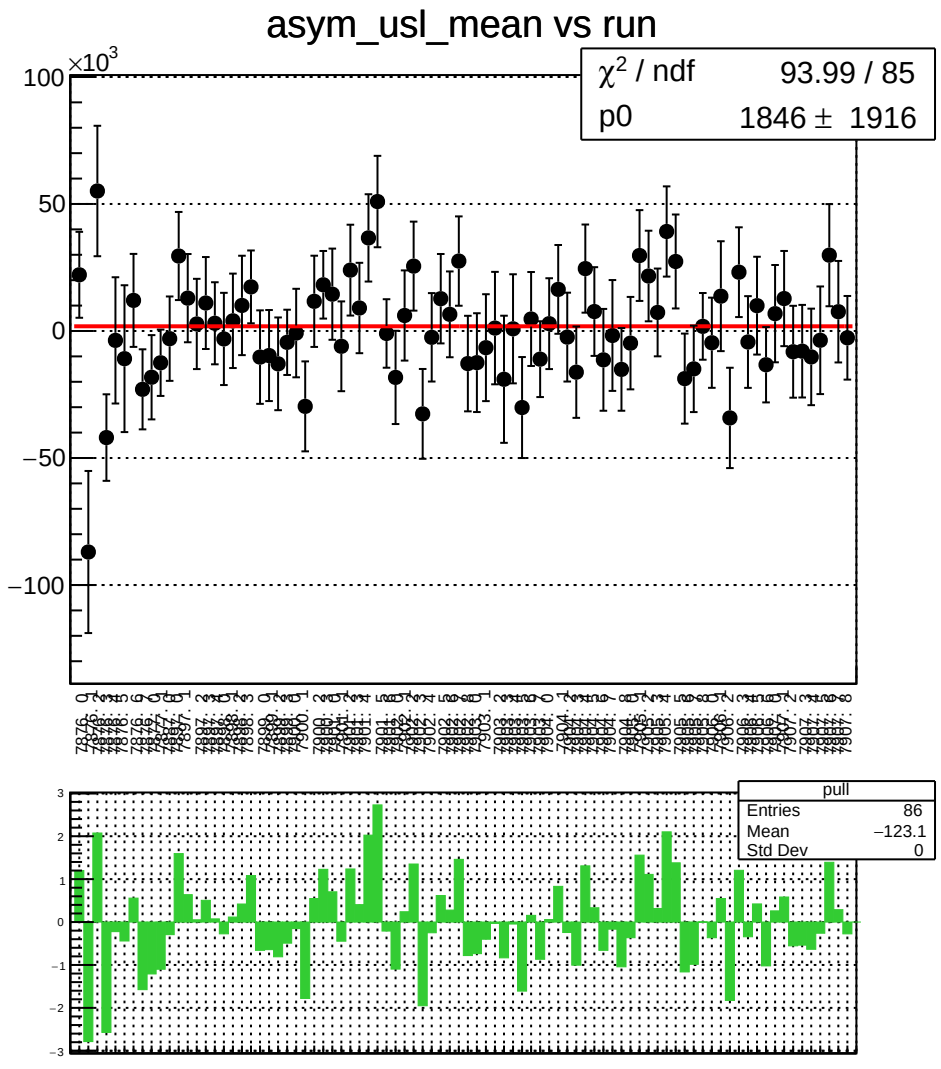

pull1D
Entries 86
Mean −0.004731
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

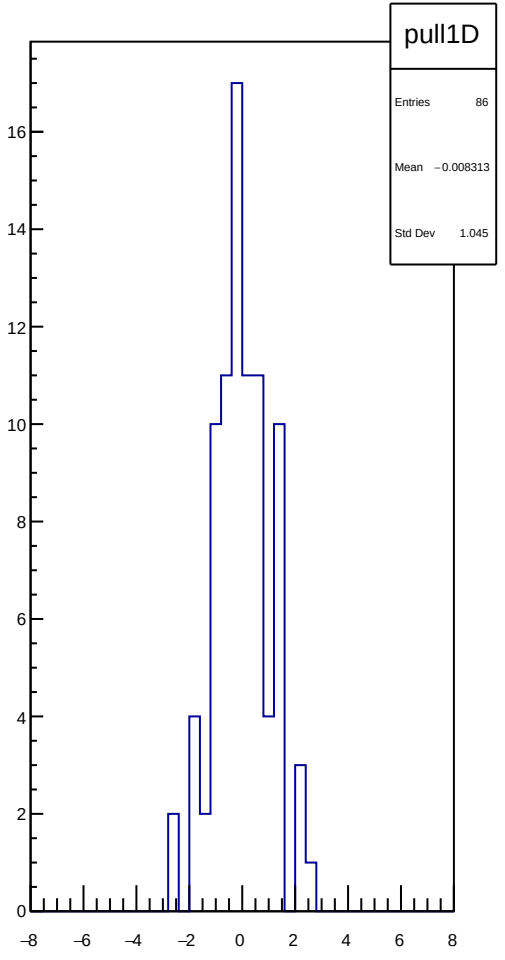

eigen_dit_asym_usl_rms vs run
χ² / ndf 3272 / 85
p0 1123 ± 0.8653
1500
1450
1400
1350
1300
1250
1200
1150
1100
1050

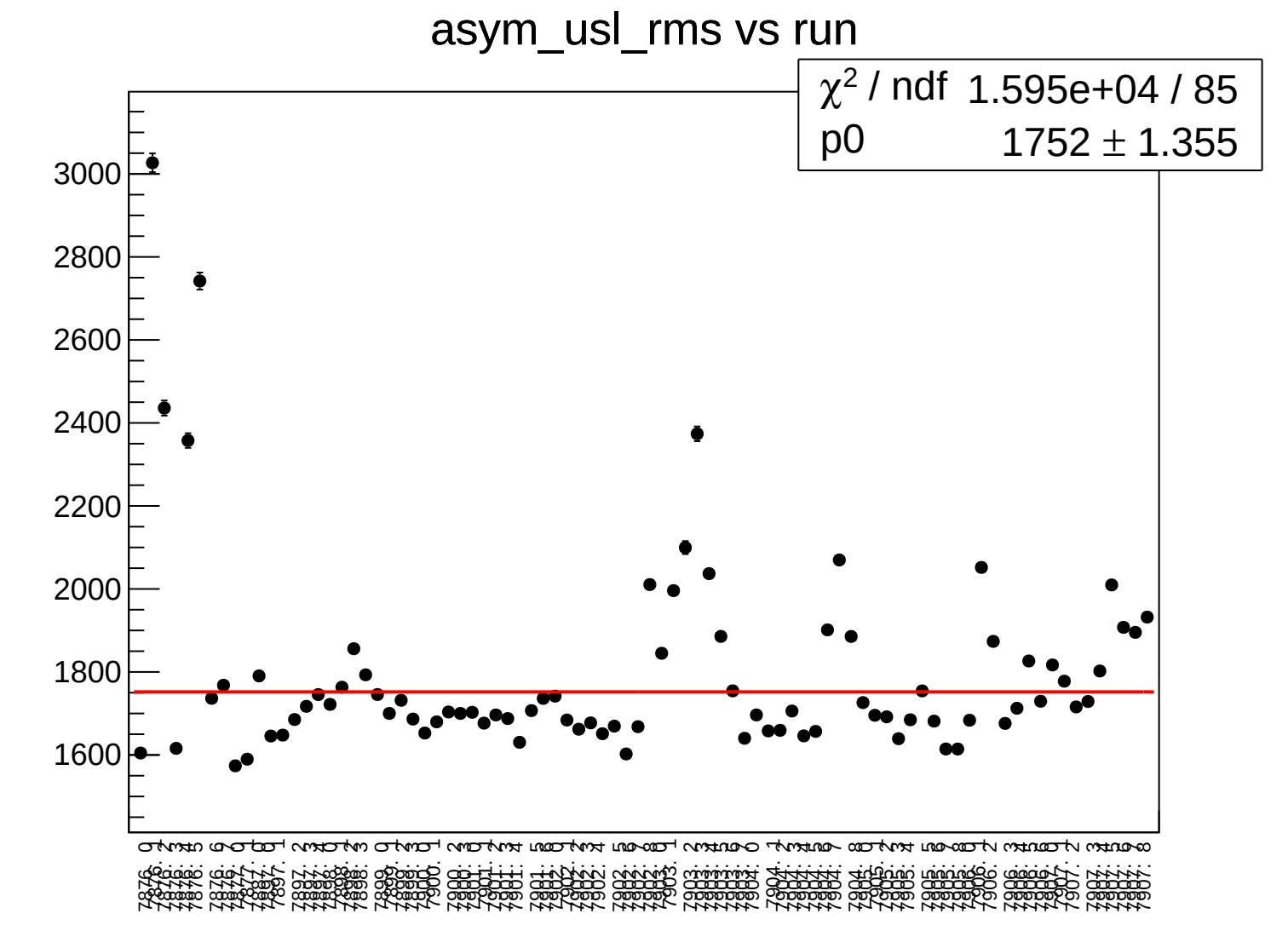

asym_usl_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.87 / 85
p0 −387.1± 1453
pull
Entries 86
Mean −100.7
Std Dev 0

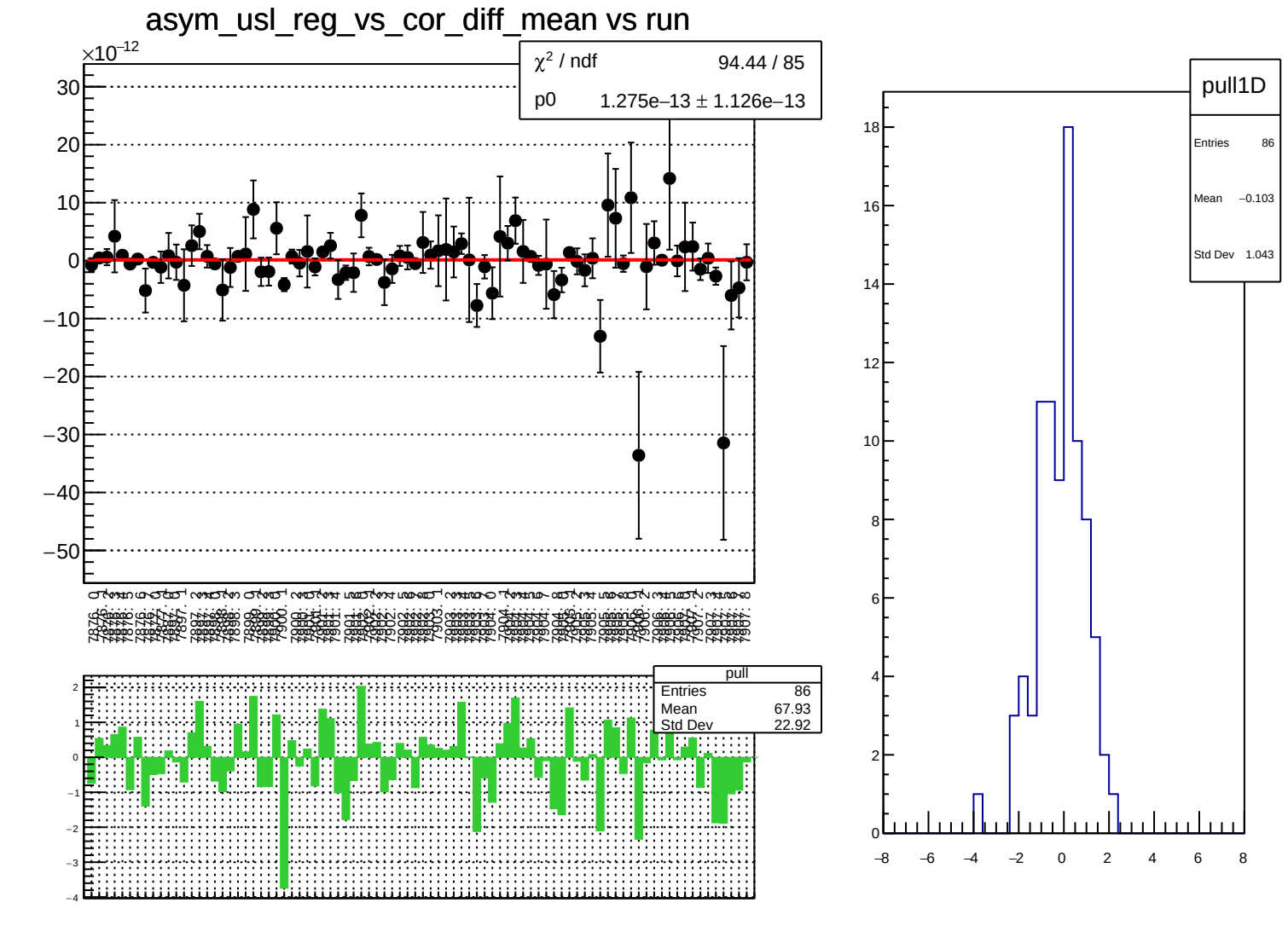

pull1D
Entries 86
Mean 0.013
Std Dev 1.028

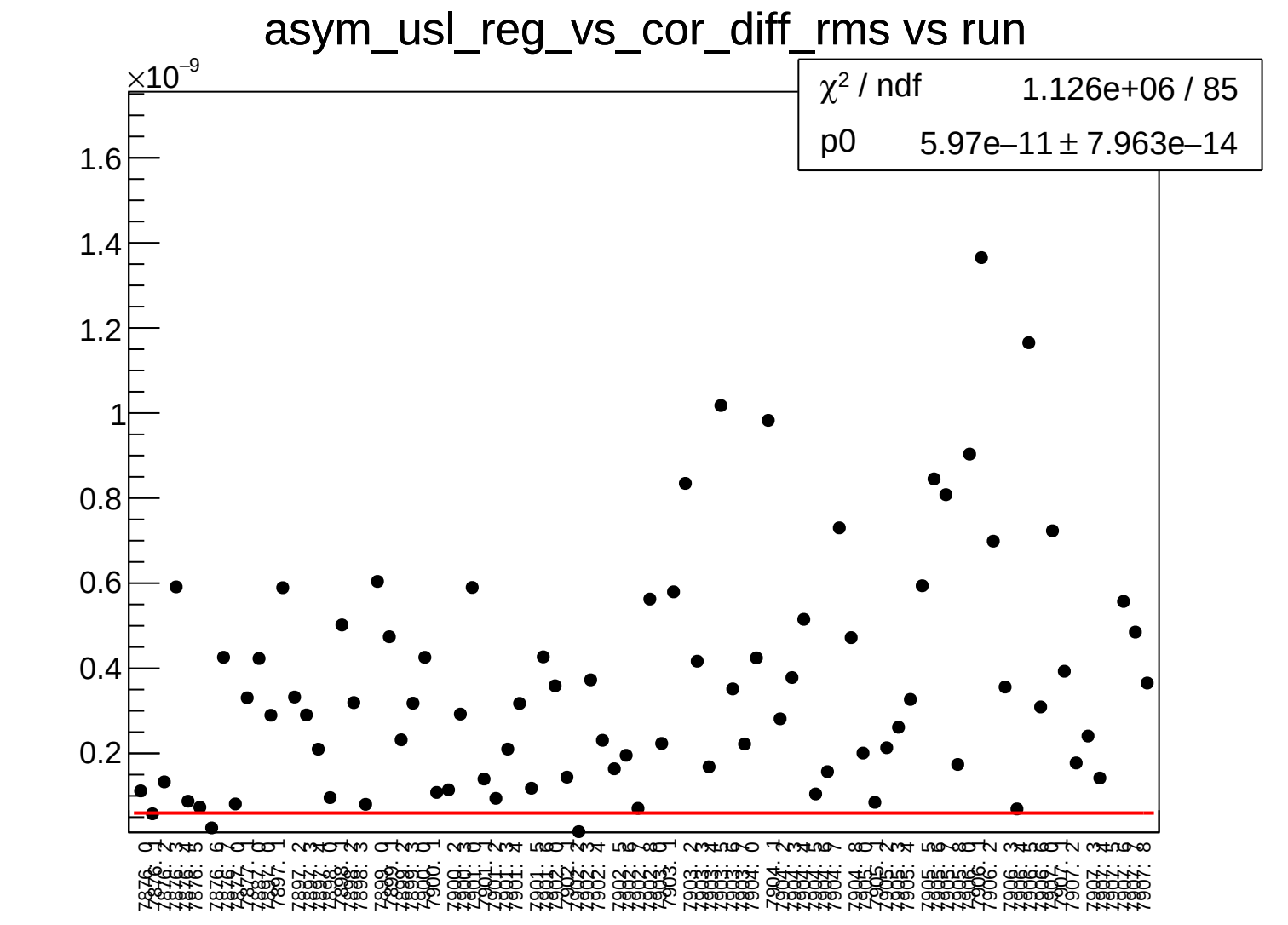

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1.79e+04 / 85
p0 1327 ± 1.027
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000

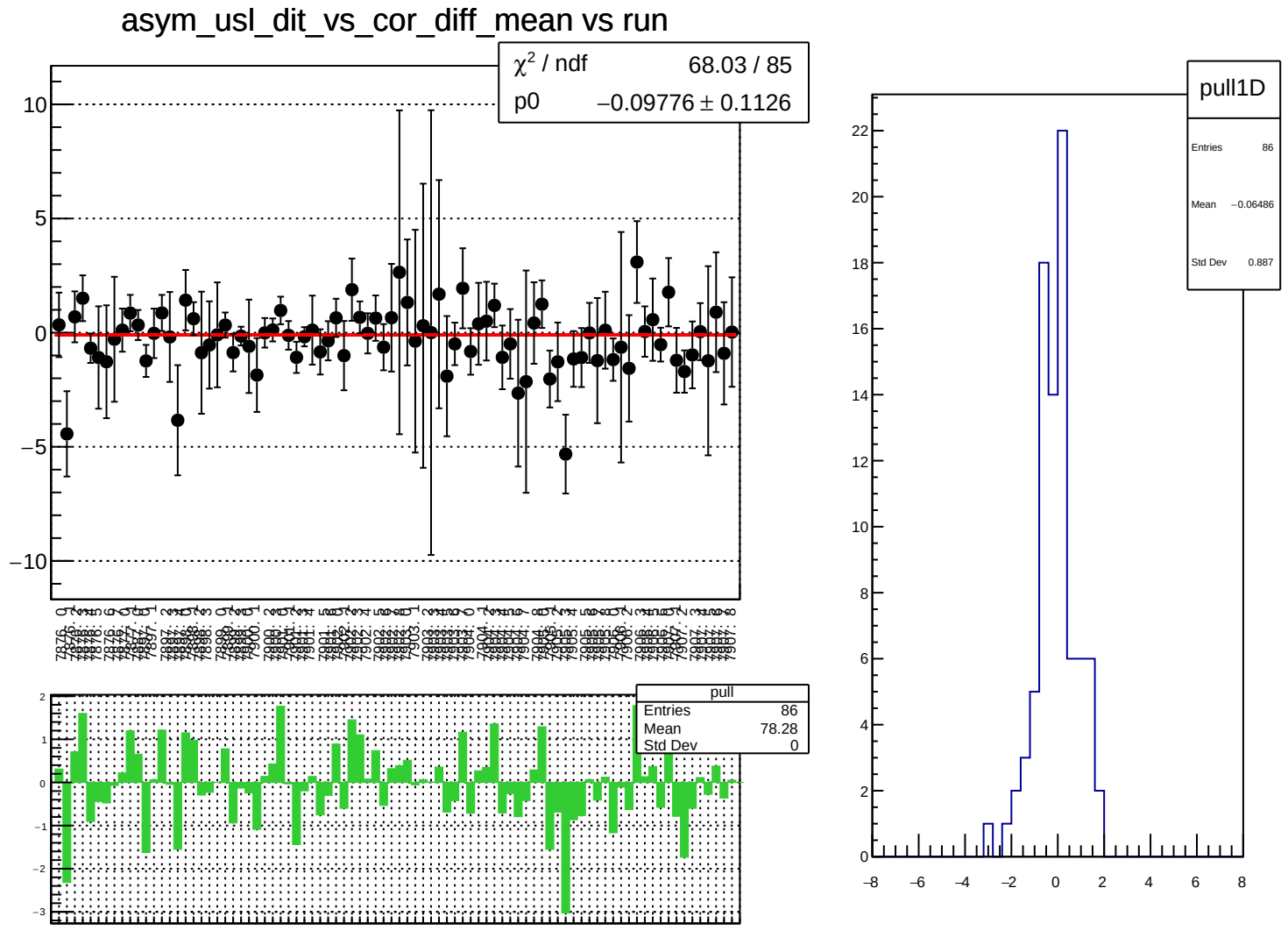

asym_usl_mean vs run
×10^3
χ² / ndf 93.99 / 85
p0 1846 ± 1916
pull
Entries 86
Mean −123.1
Std Dev 0

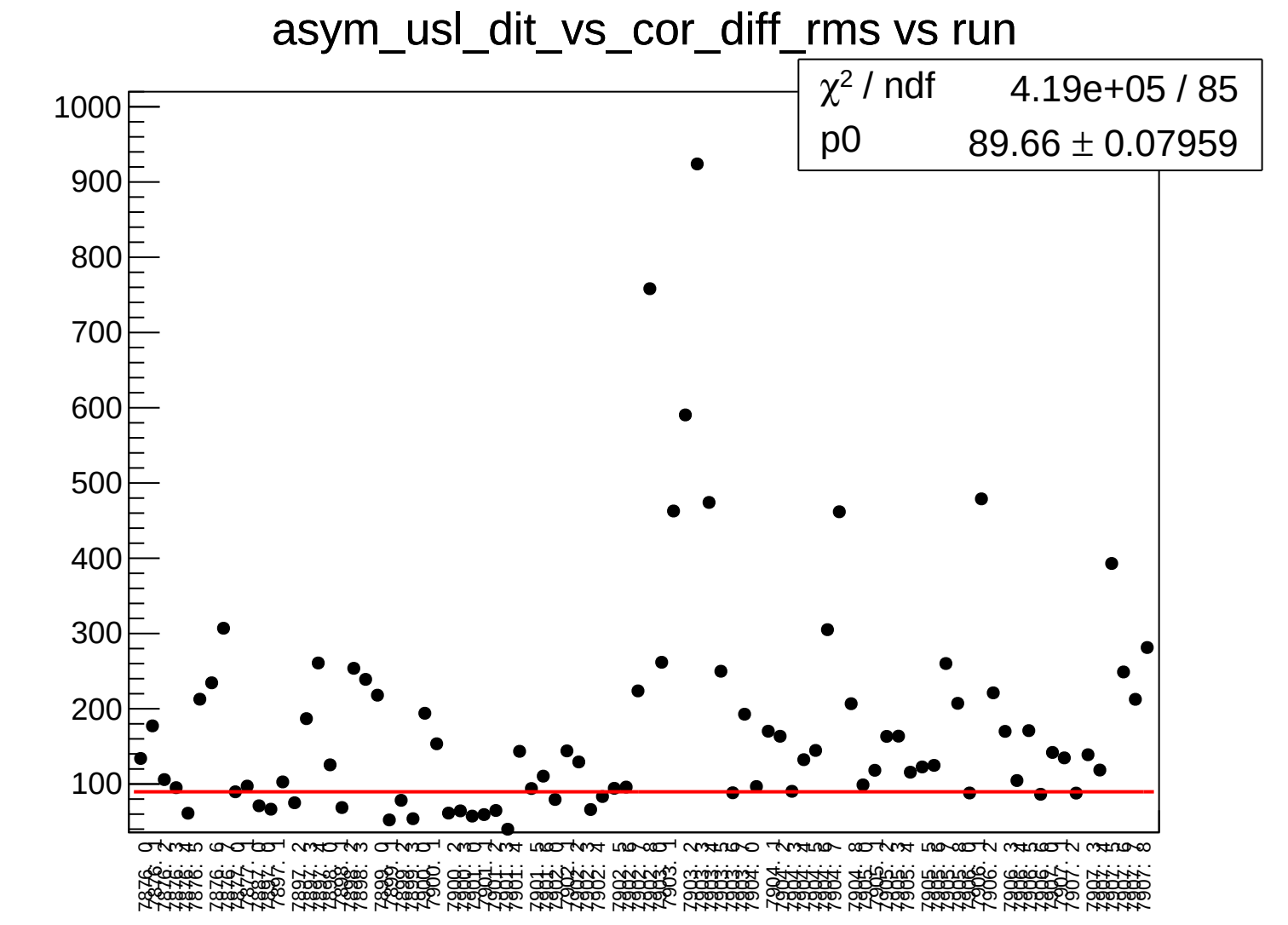

pull1D
Entries 86
Mean −0.008313
Std Dev 1.045

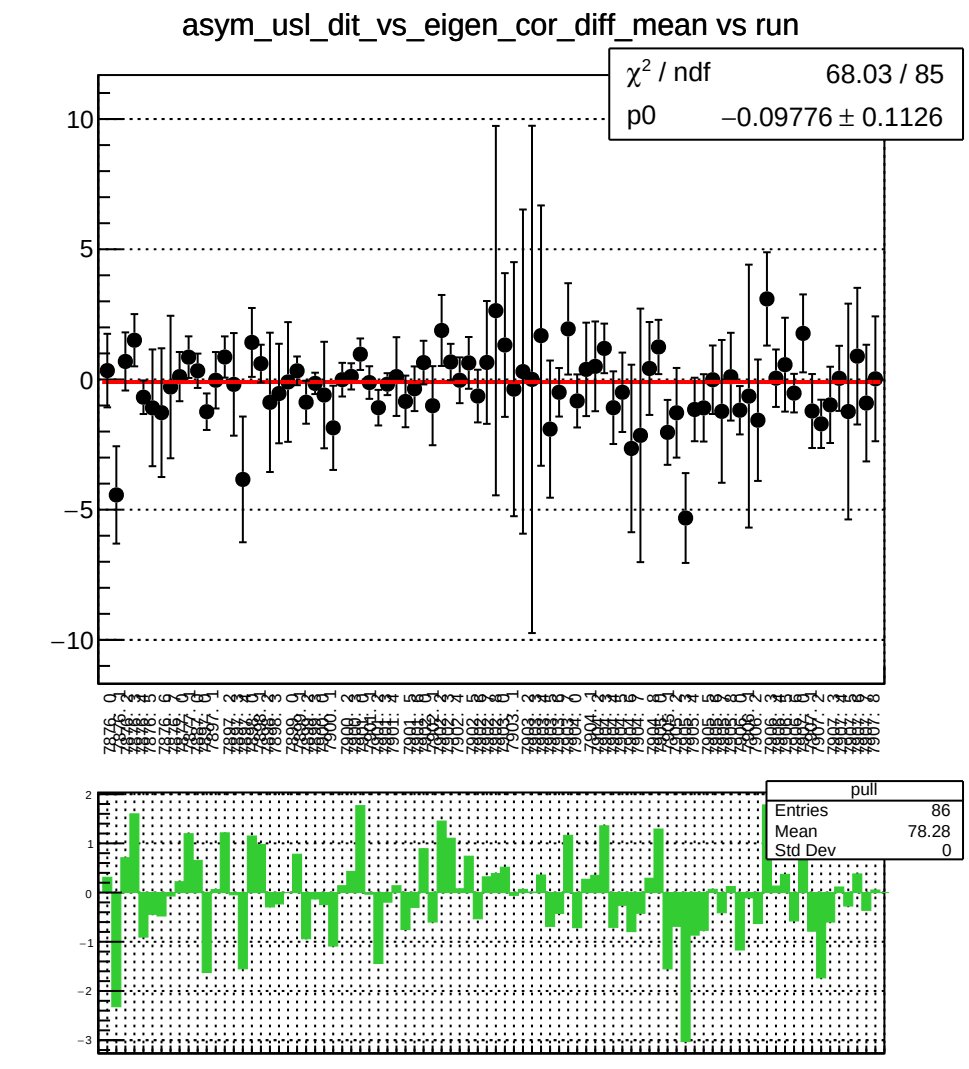

asym_usl_rms vs run
χ² / ndf 1.595e+04 / 85
p0 1752 ± 1.355
3000
2800
2600
2400
2200
2000
1800
1600

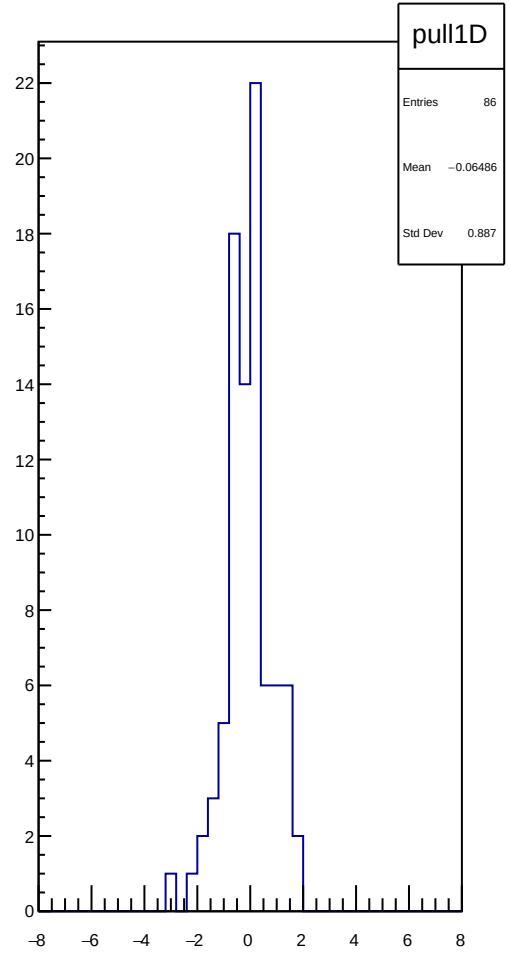

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.44 / 85
p0 1.275e−13 ± 1.126e−13
pull
Entries 86
Mean 67.93
Std Dev 22.92
pull1D
Entries 86
Mean −0.103
Std Dev 1.043

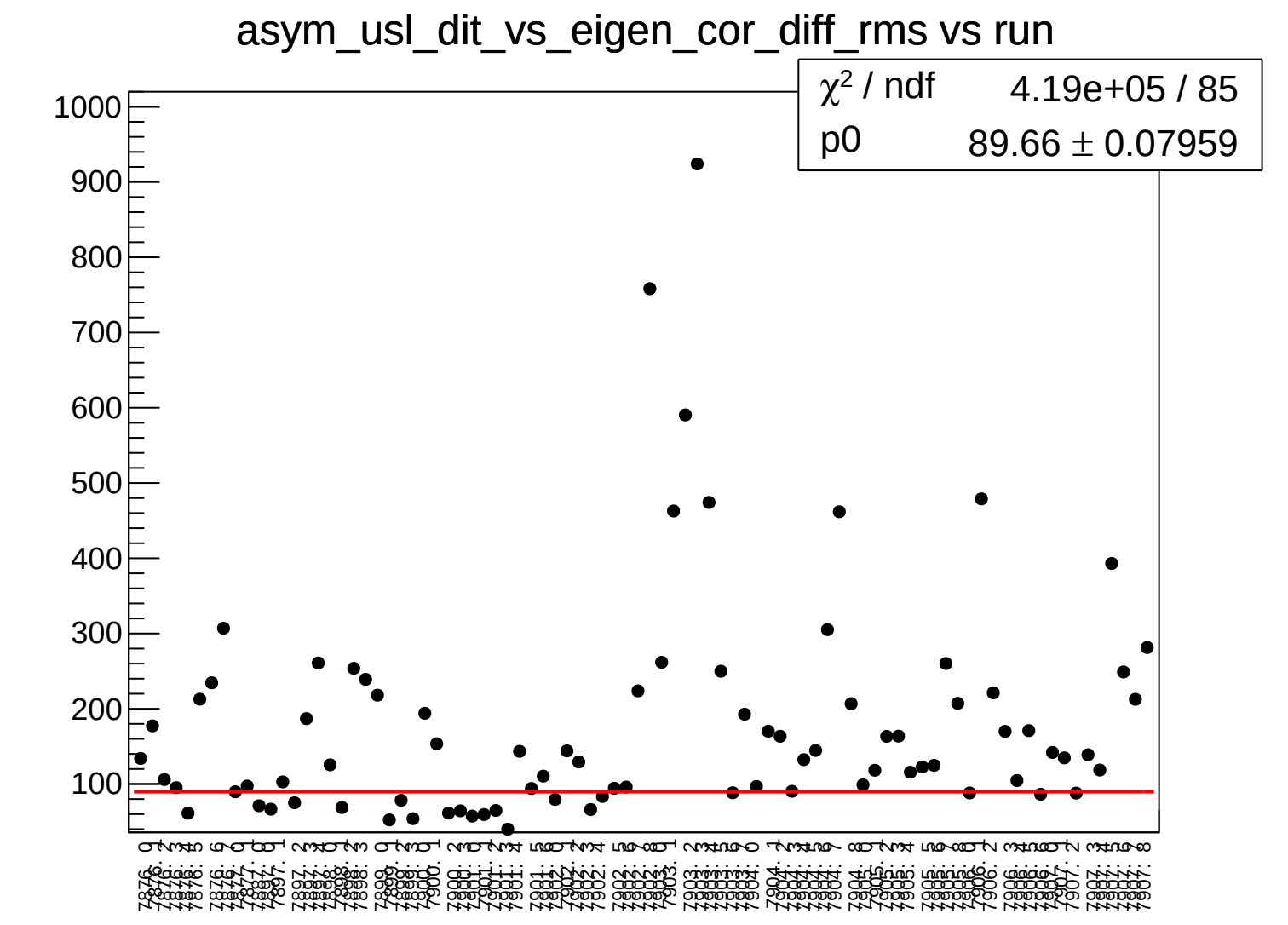

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.126e+06 / 85
p0 5.97e−11 ± 7.963e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

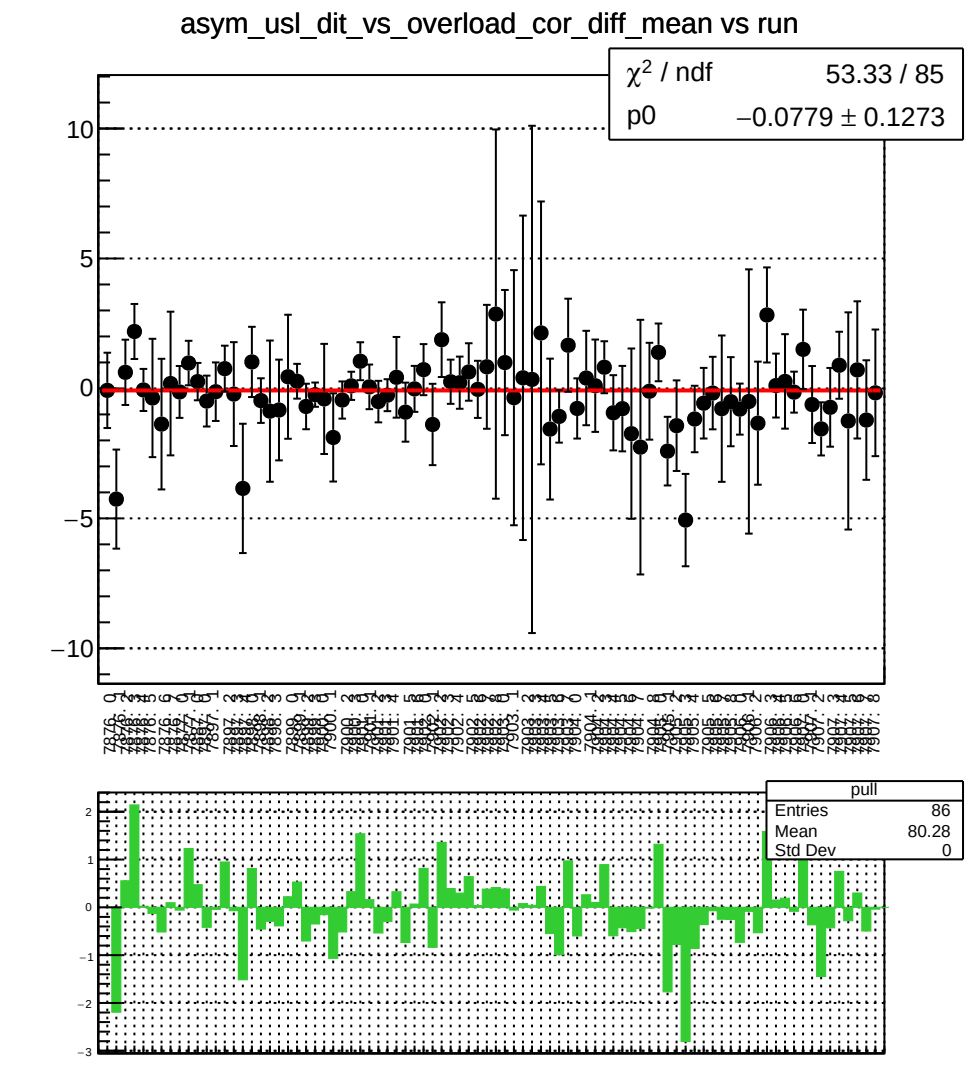

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 68.03 / 85
p0 −0.09776 ± 0.1126
pull
Entries 86
Mean 78.28
Std Dev 0
pull1D
Entries 86
Mean −0.06486
Std Dev 0.887

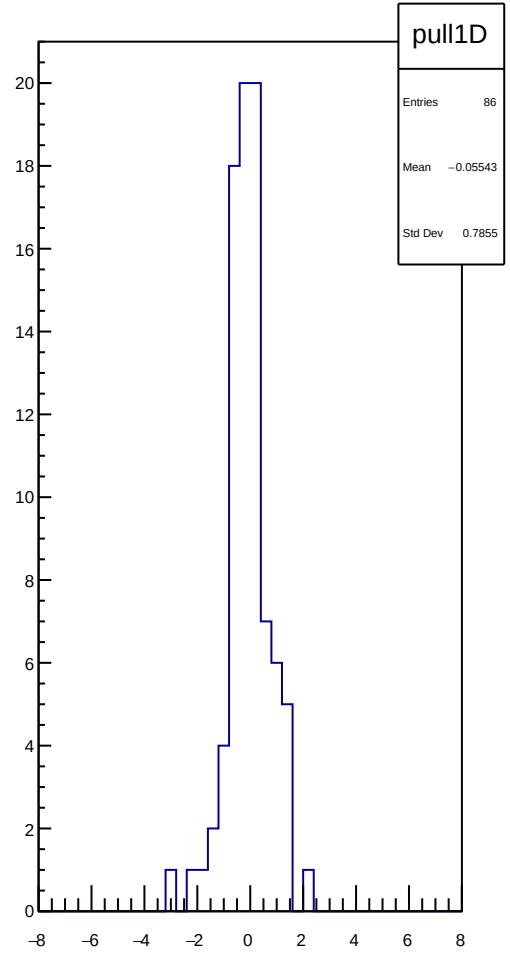

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.19e+05 / 85
p0 89.66 ± 0.07959
1000
900
800
700
600
500
400
300
200
100

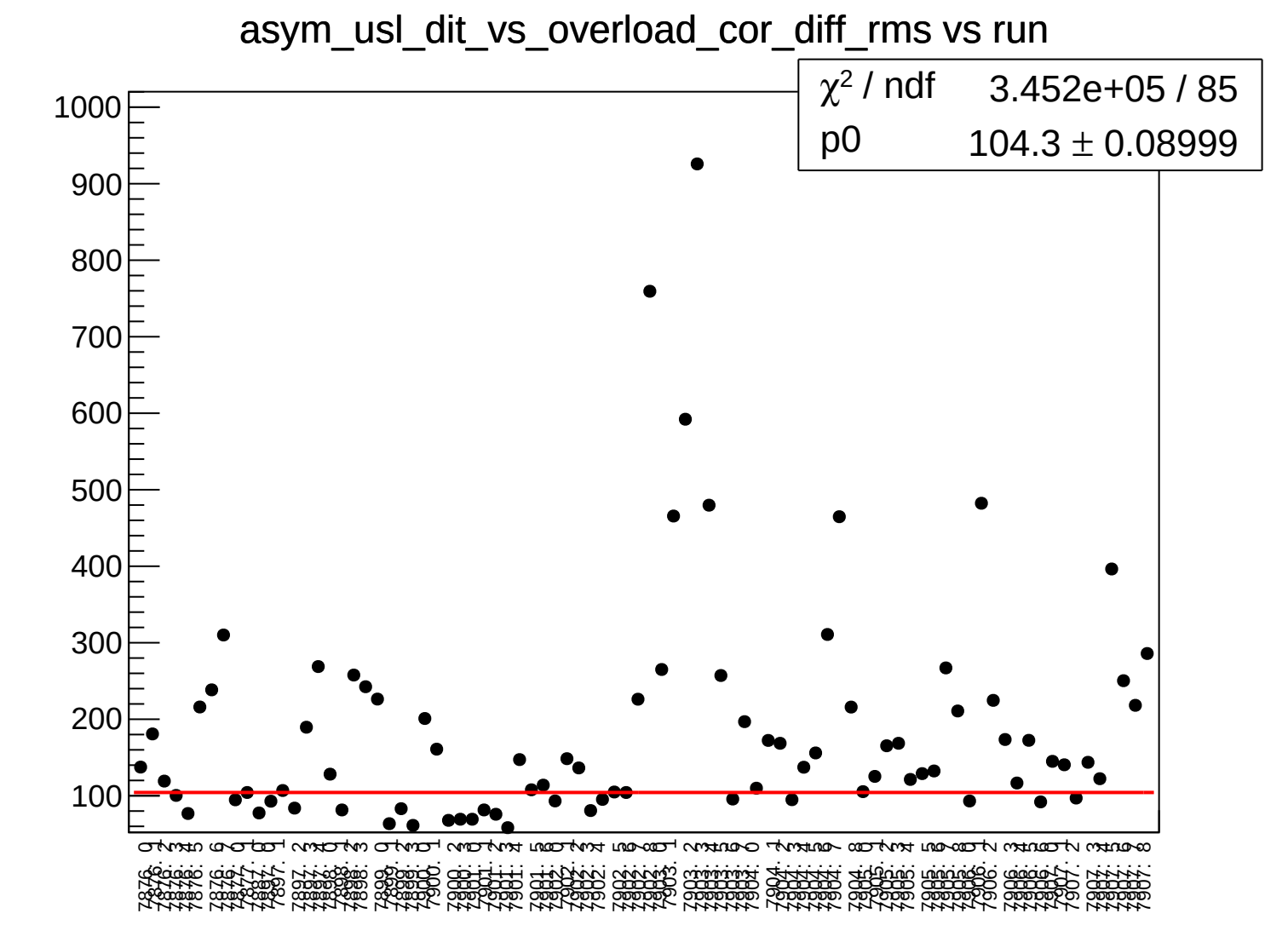

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.03 / 85
p0 −0.09776 ± 0.1126
pull
Entries 86
Mean 78.28
Std Dev 0

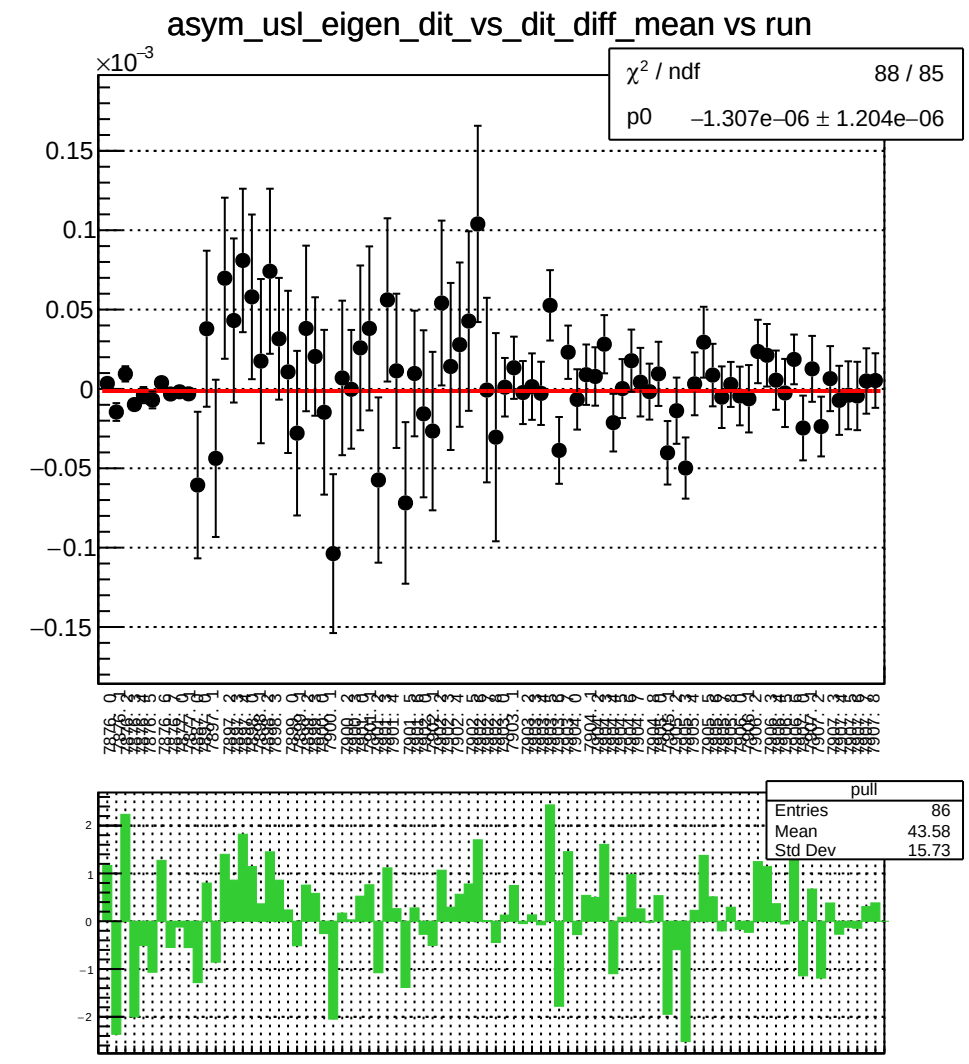

pull1D
Entries 86
Mean −0.06486
Std Dev 0.887

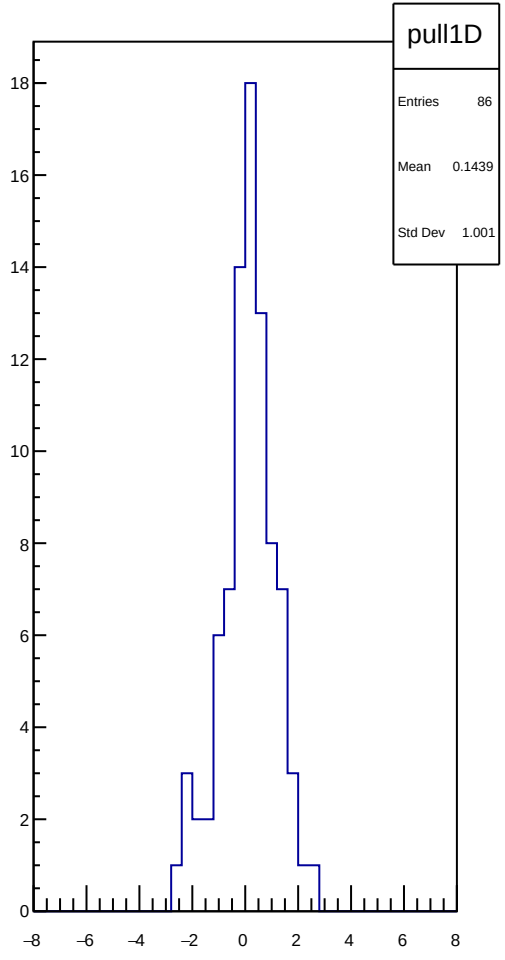

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.19e+05 / 85
p0 89.66 ± 0.07959
1000
900
800
700
600
500
400
300
200
100

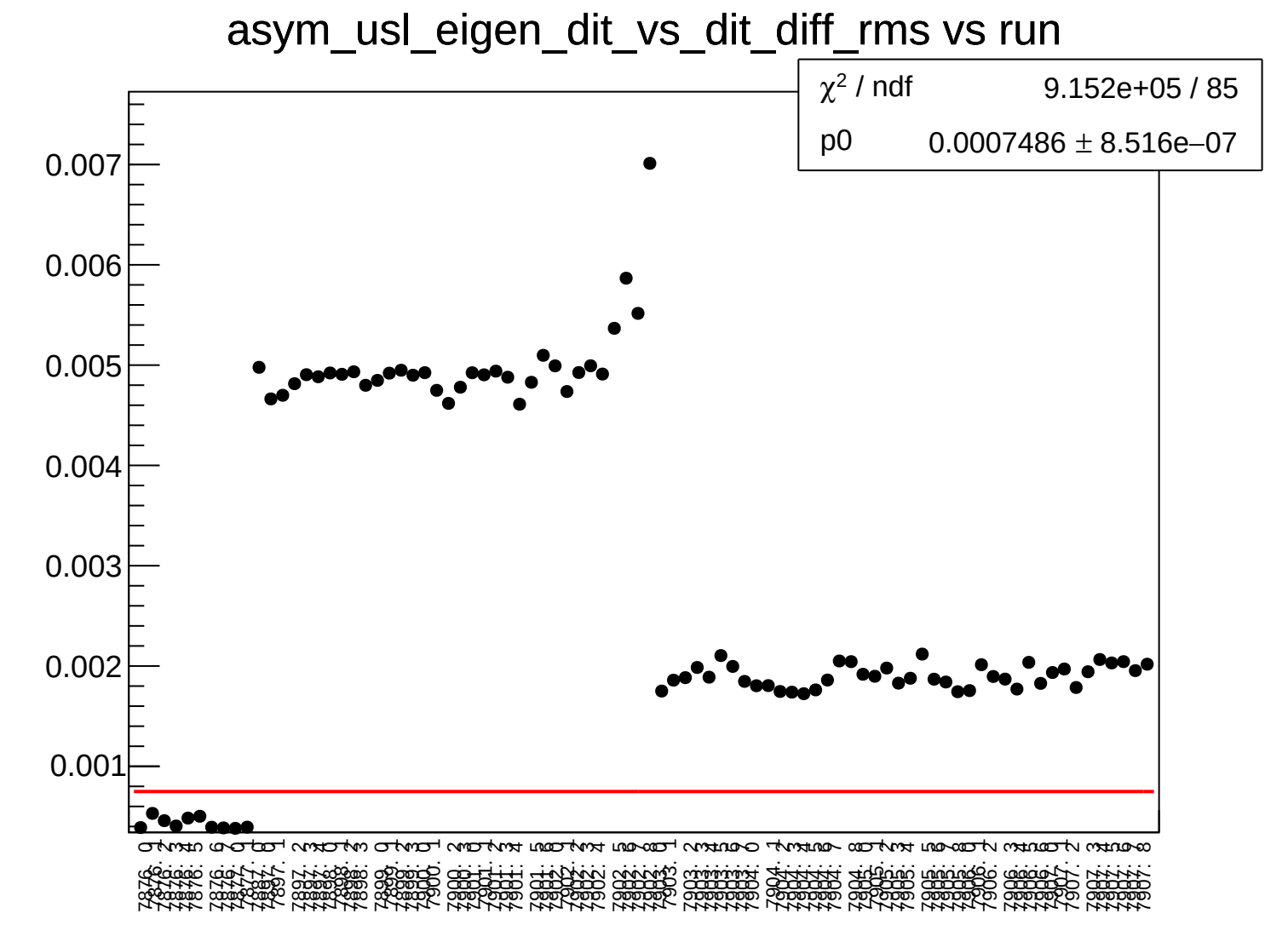

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 53.33 / 85
p0 −0.0779 ± 0.1273
pull
Entries 86
Mean 80.28
Std Dev 0

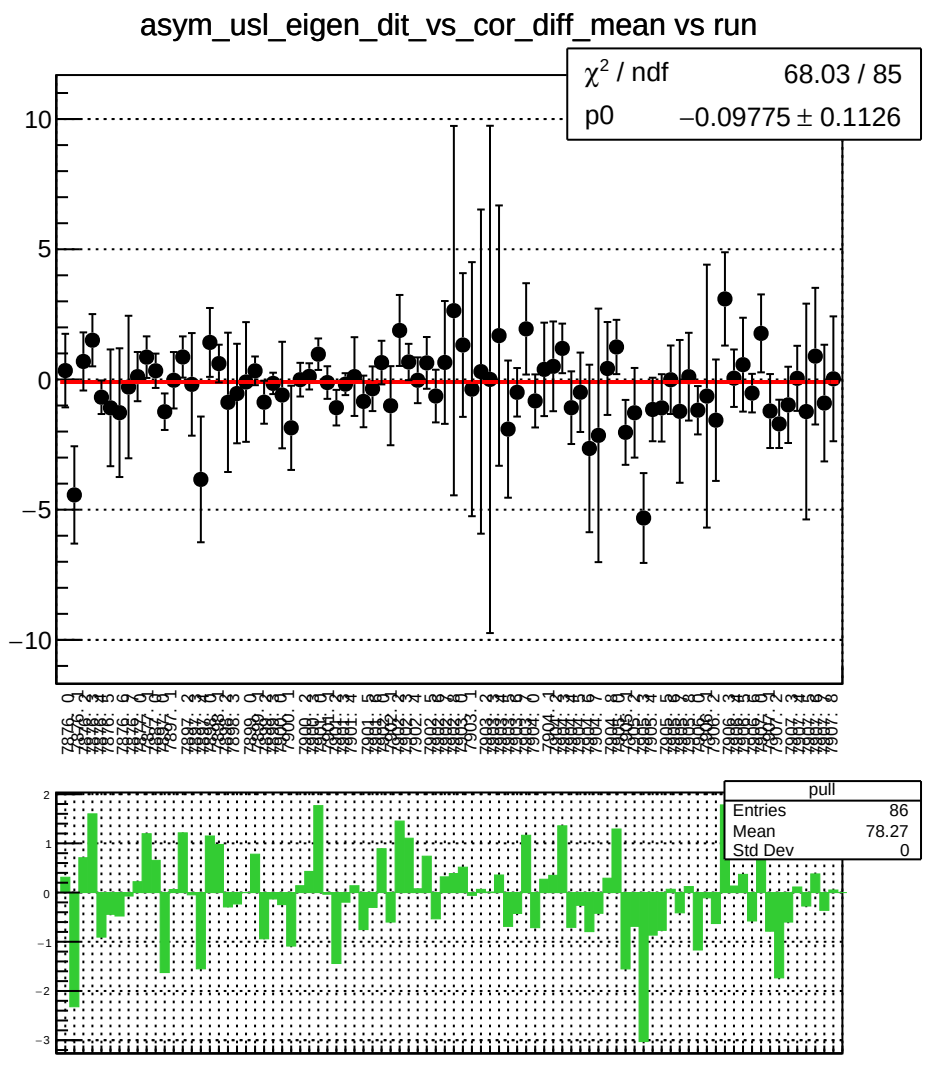

pull1D
Entries 86
Mean −0.05543
Std Dev 0.7855

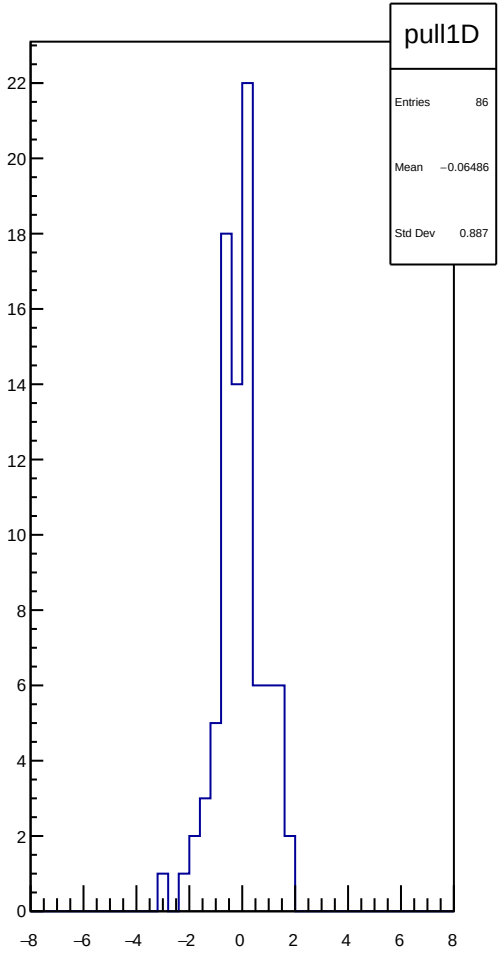

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.452e+05 / 85
p0 104.3 ± 0.08999
1000
900
800
700
600
500
400
300
200
100

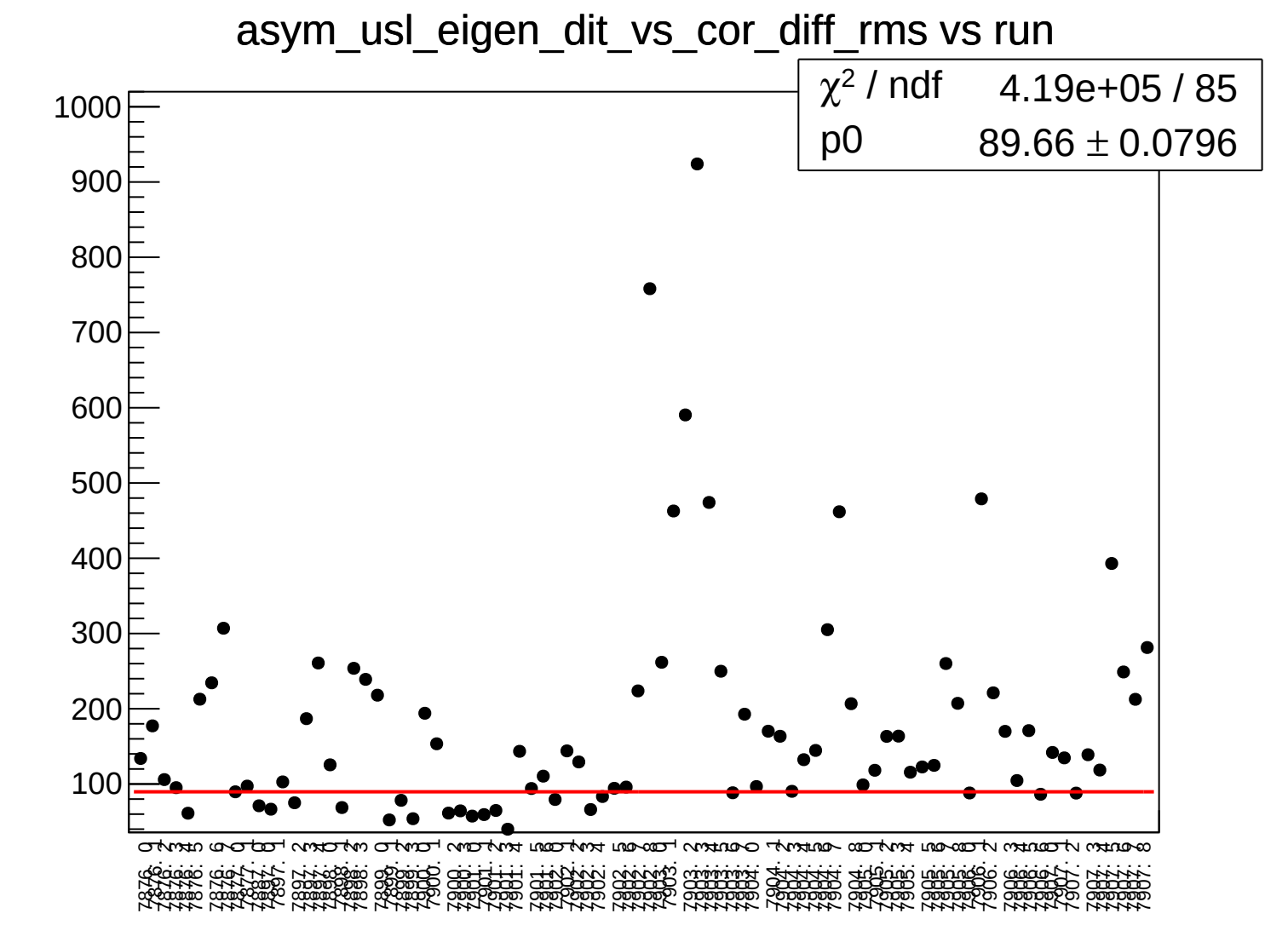

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88 / 85
p0 −1.307e−06 ± 1.204e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 43.58
Std Dev 15.73
2
1
0
−1
−2

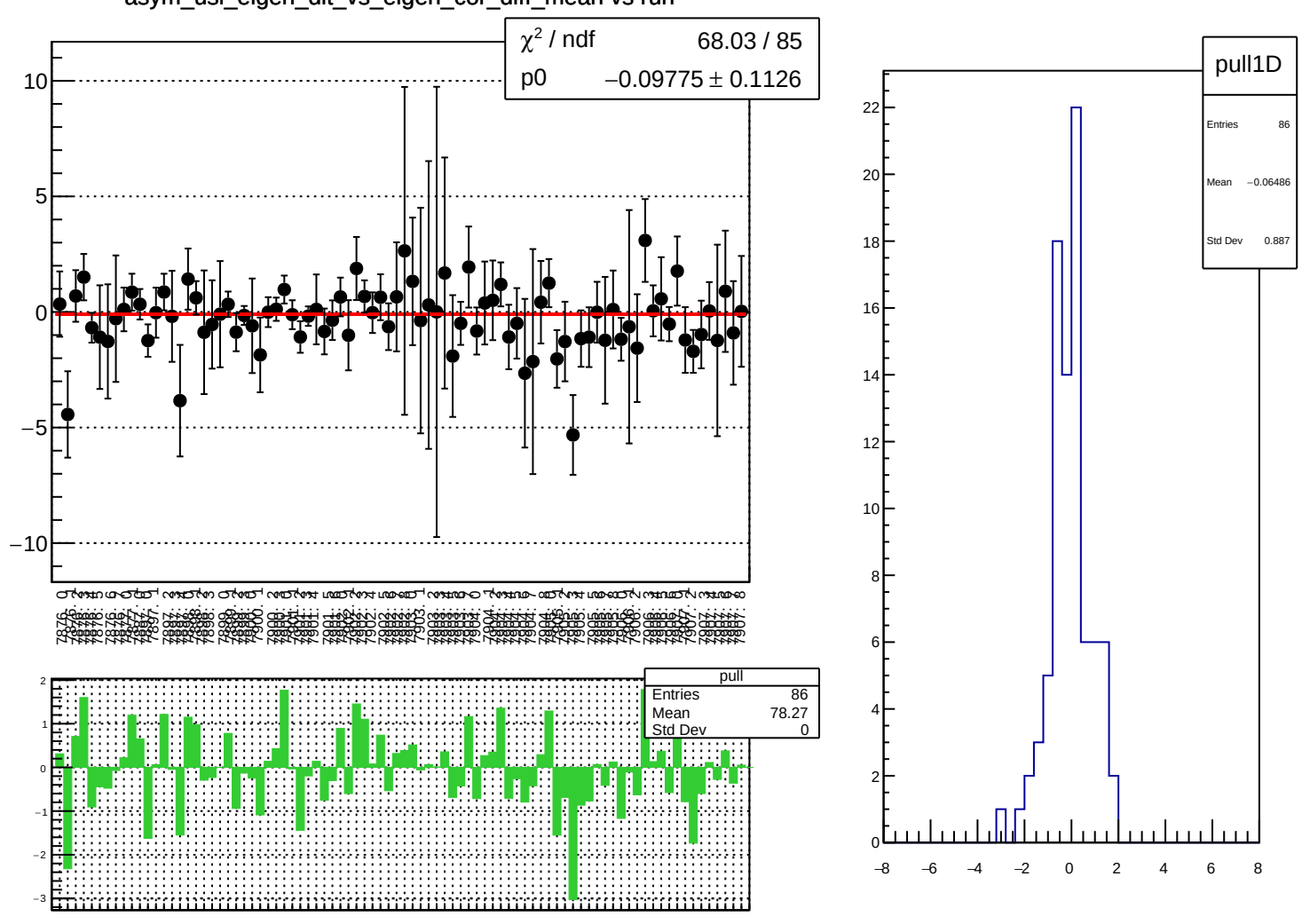

pull1D
Entries 86
Mean 0.1439
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

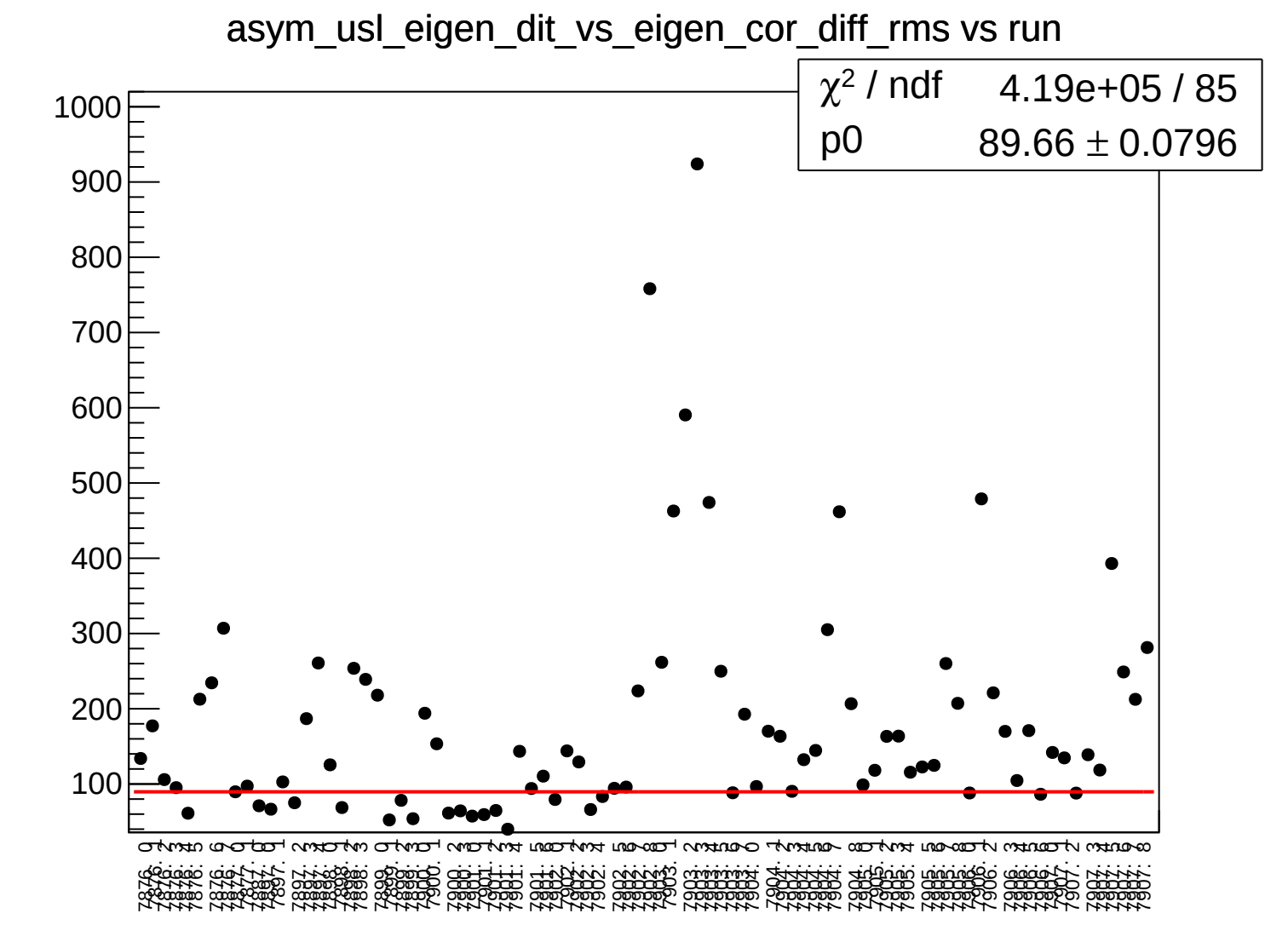

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.152e+05 / 85
p0 0.0007486 ± 8.516e−07
0.007
0.006
0.005
0.004
0.003
0.002
0.001

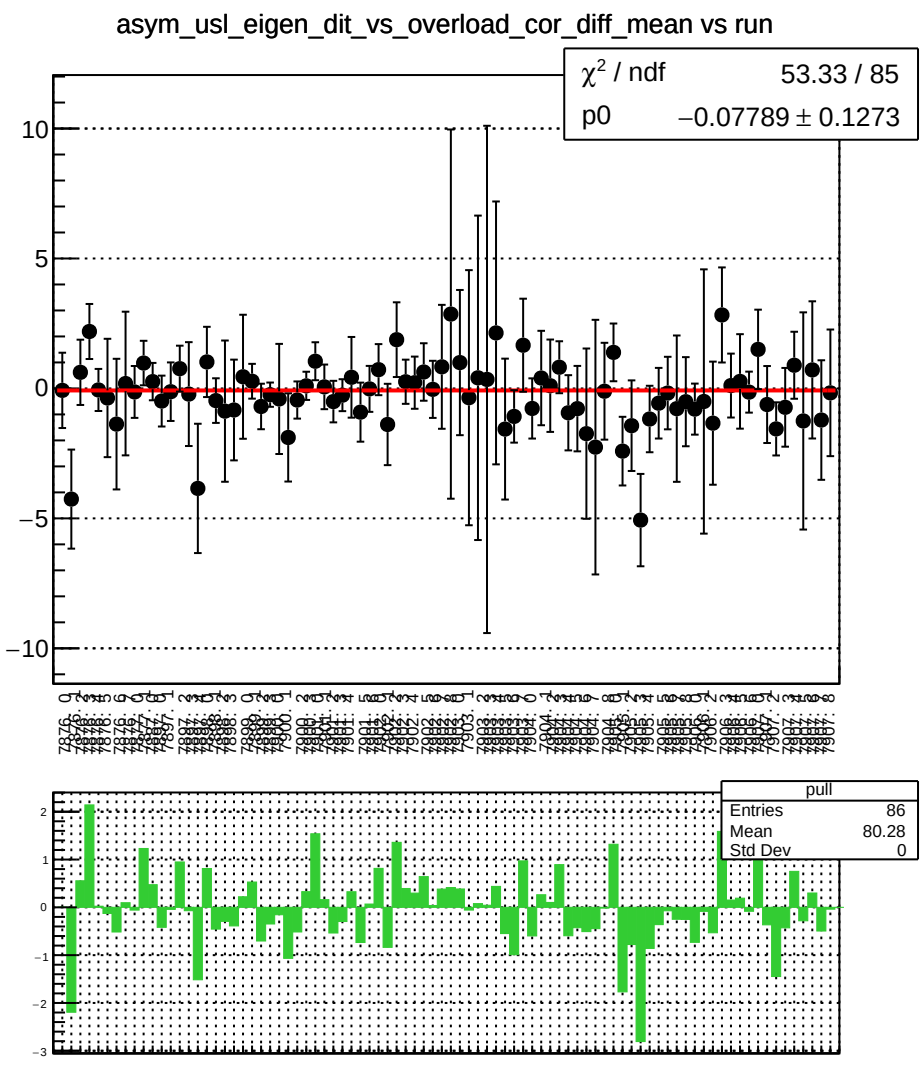

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.03 / 85
p0 −0.09775 ± 0.1126
pull
Entries 86
Mean 78.27
Std Dev 0

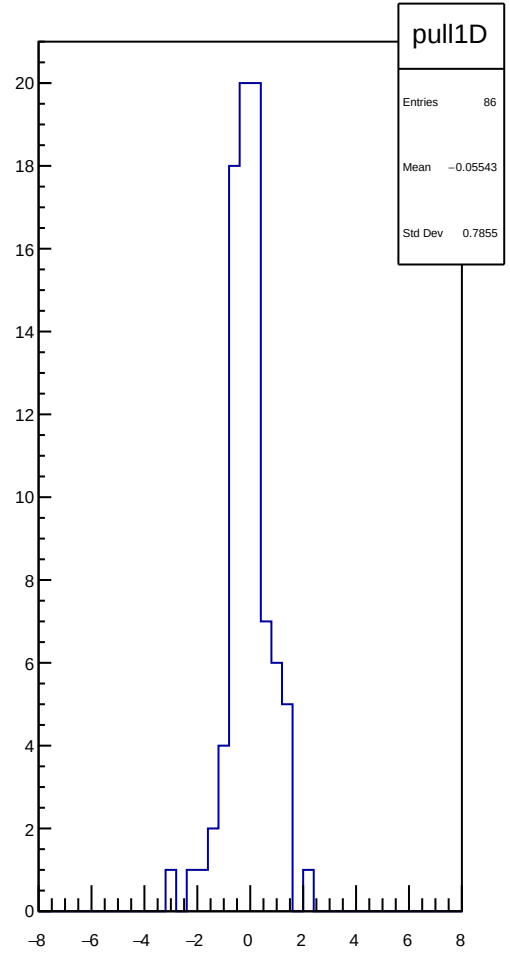

pull1D
Entries 86
Mean −0.06486
Std Dev 0.887

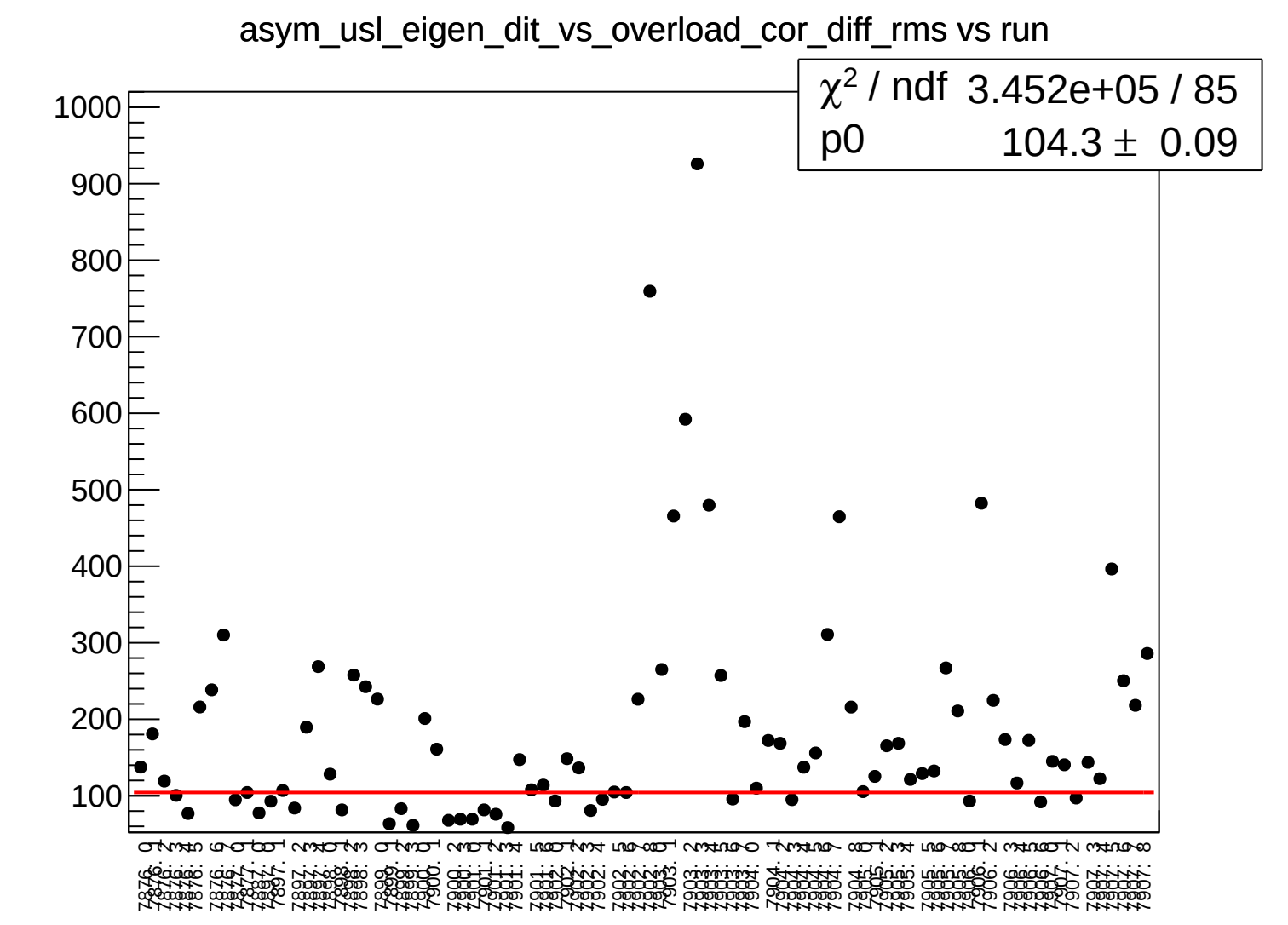

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.19e+05 / 85
p0 89.66 ± 0.0796
1000
900
800
700
600
500
400
300
200
100

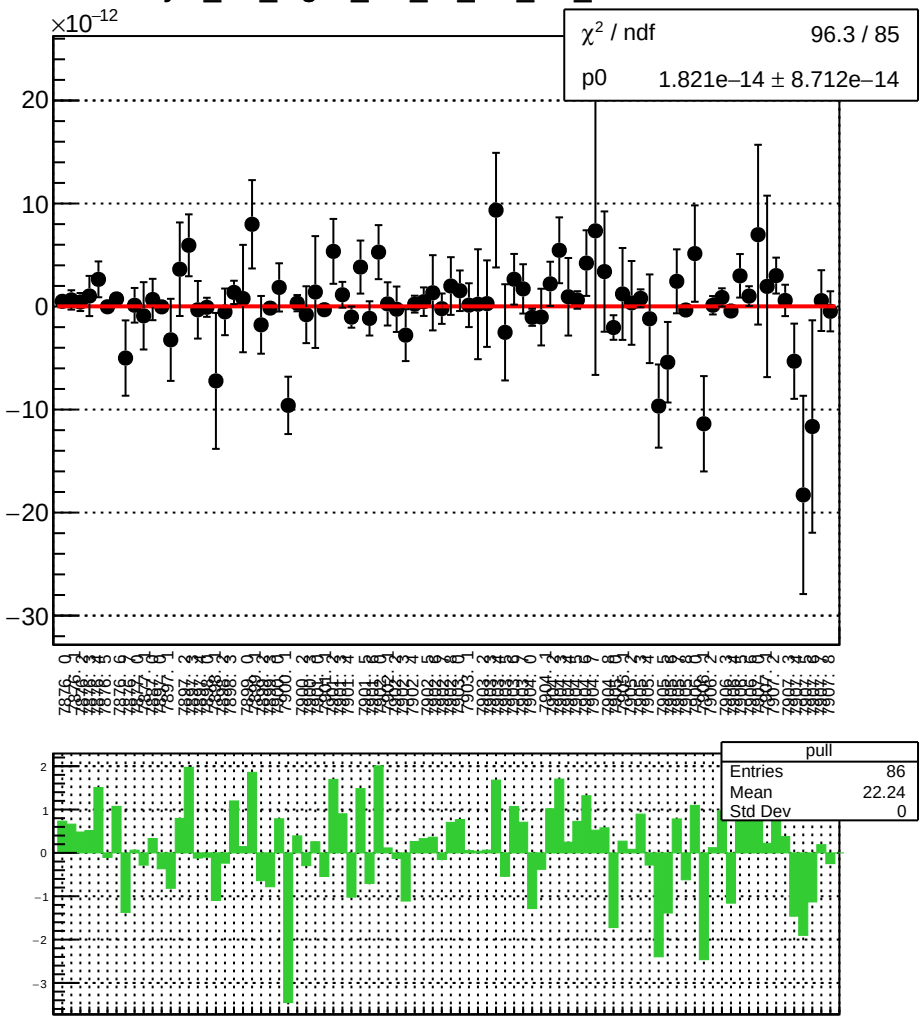

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.03 / 85
p0 −0.09775 ± 0.1126
pull
Entries 86
Mean 78.27
Std Dev 0
pull1D
Entries 86
Mean −0.06486
Std Dev 0.887

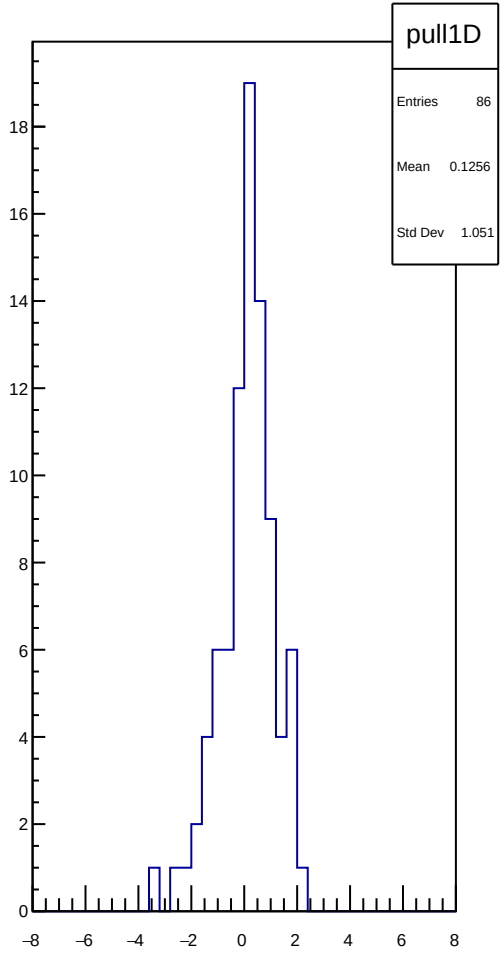

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.19e+05 / 85
p0 89.66 ± 0.0796
1000
900
800
700
600
500
400
300
200
100

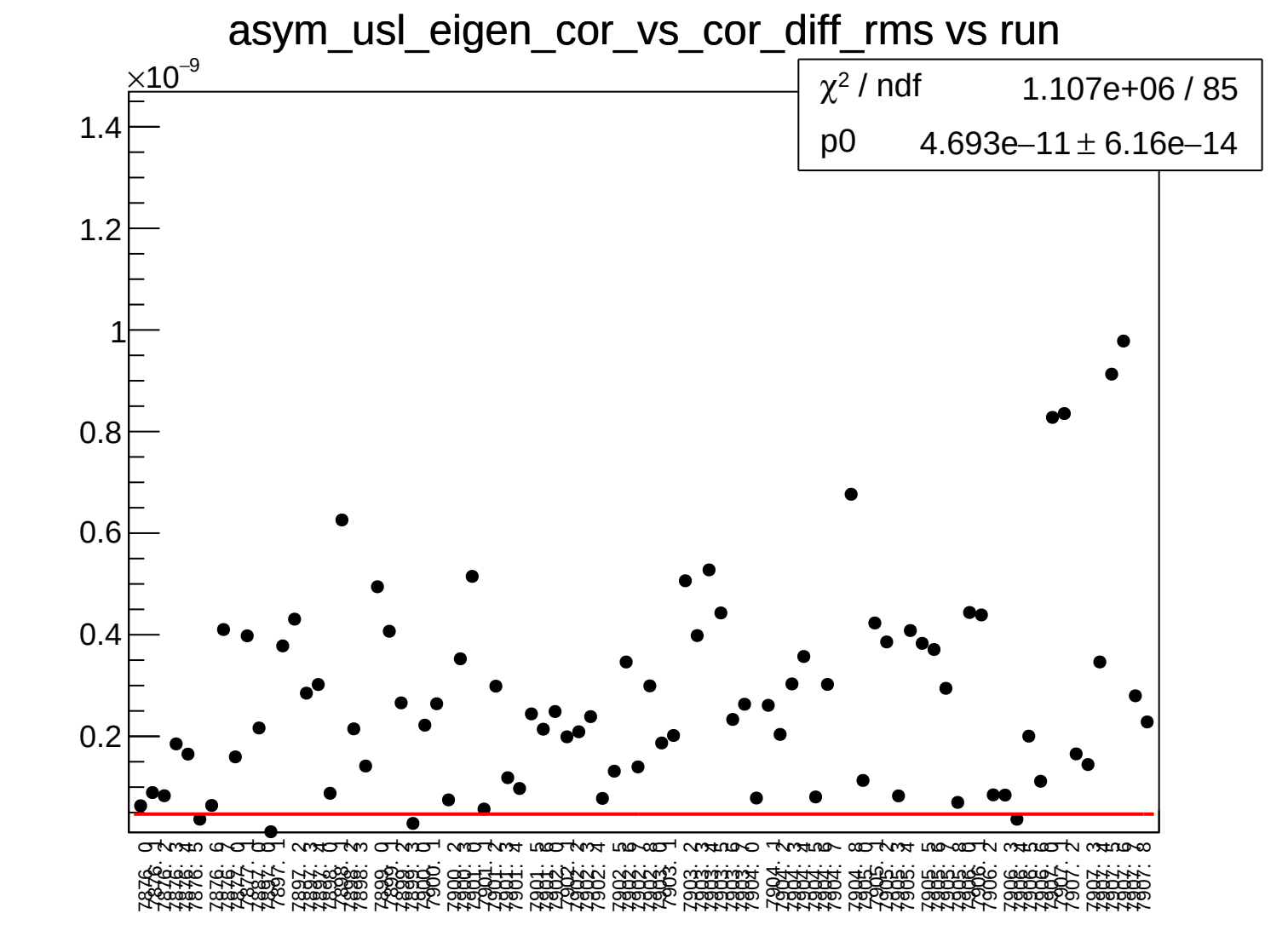

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 53.33 / 85
p0 −0.07789 ± 0.1273
pull
Entries 86
Mean 80.28
Std Dev 0

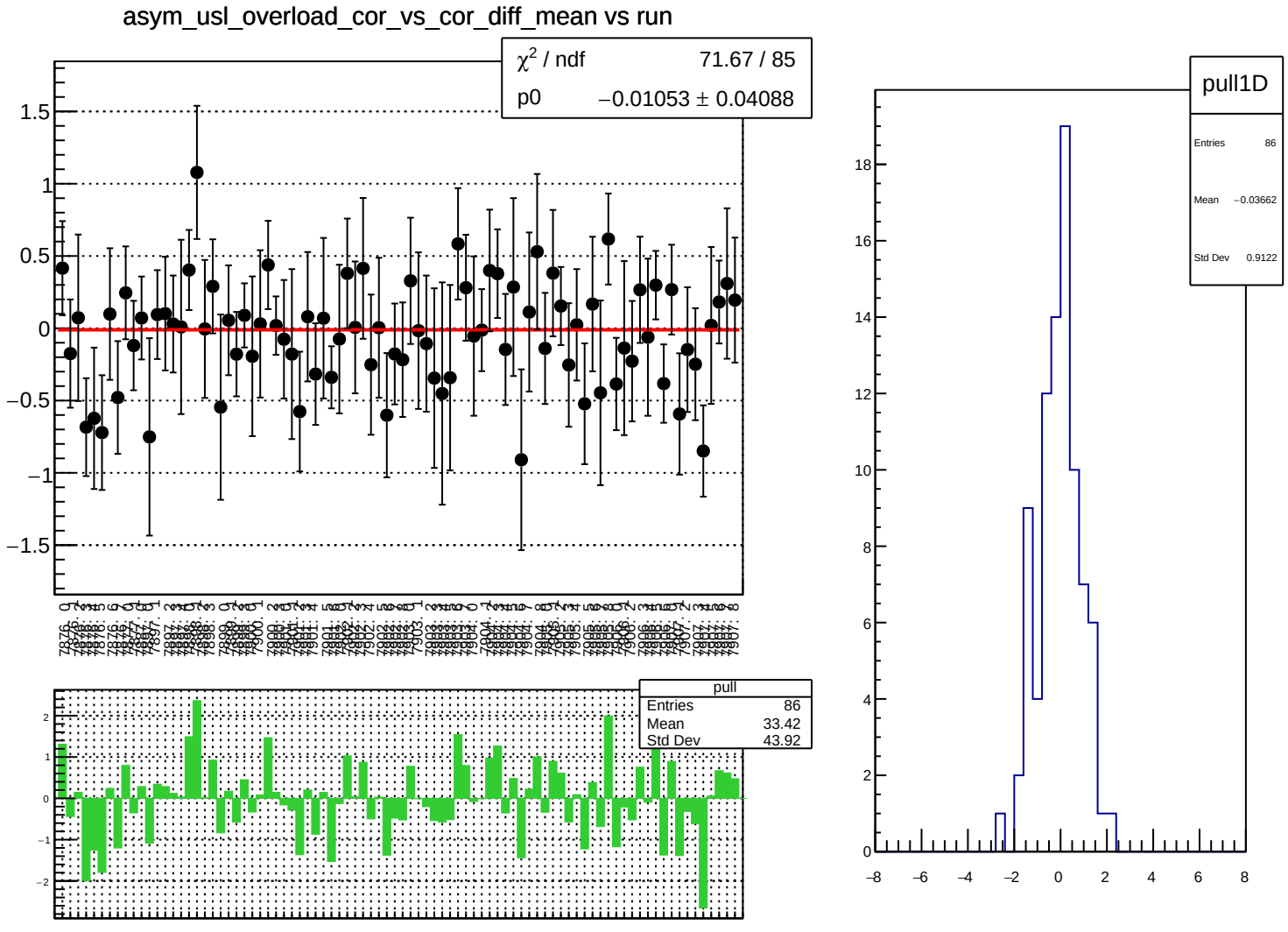

pull1D
Entries 86
Mean −0.05543
Std Dev 0.7855

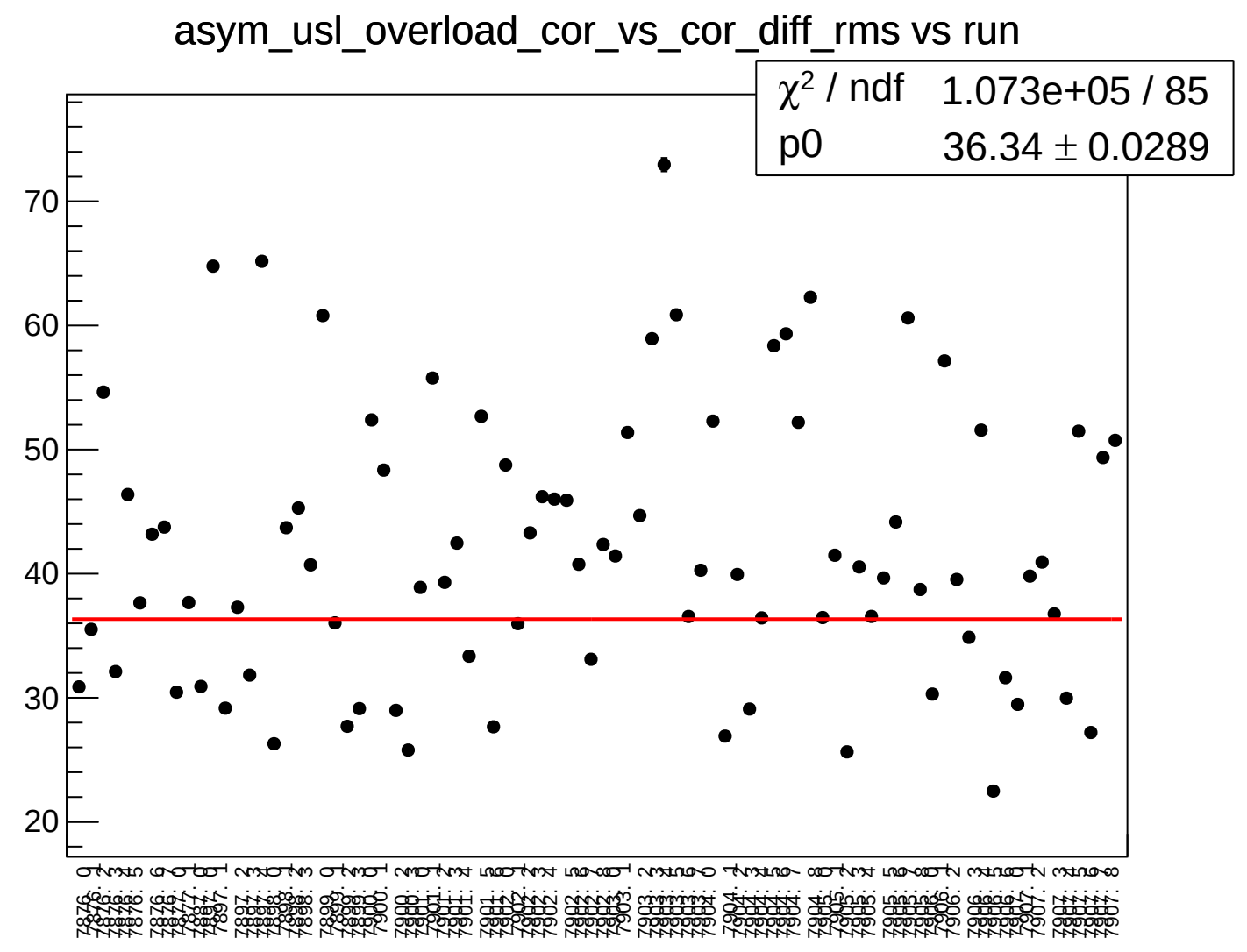

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.452e+05 / 85
p0 104.3 ± 0.09
1000
900
800
700
600
500
400
300
200
100

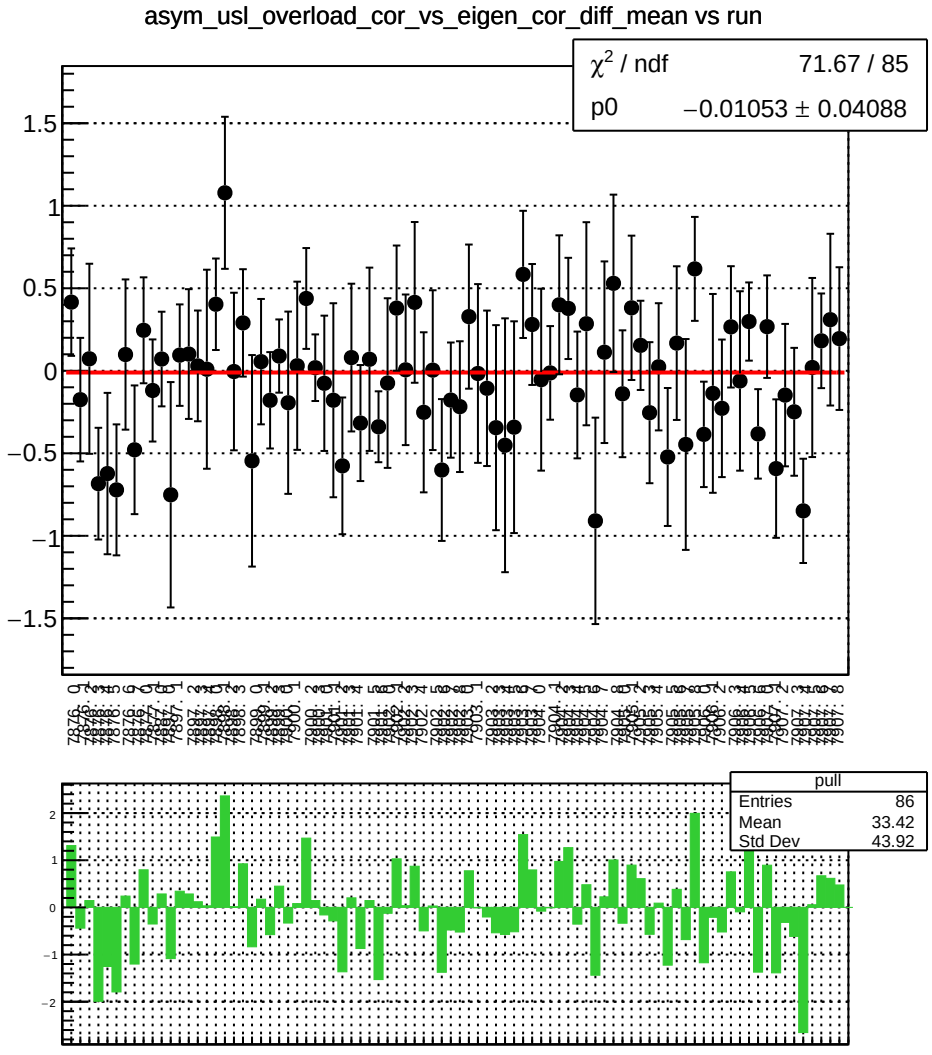

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.3 / 85
p0 1.821e−14 ± 8.712e−14
20
10
0
−10
−20
−30
pull
Entries 86
Mean 22.24
Std Dev 0
2
1
0
−1
−2
−3

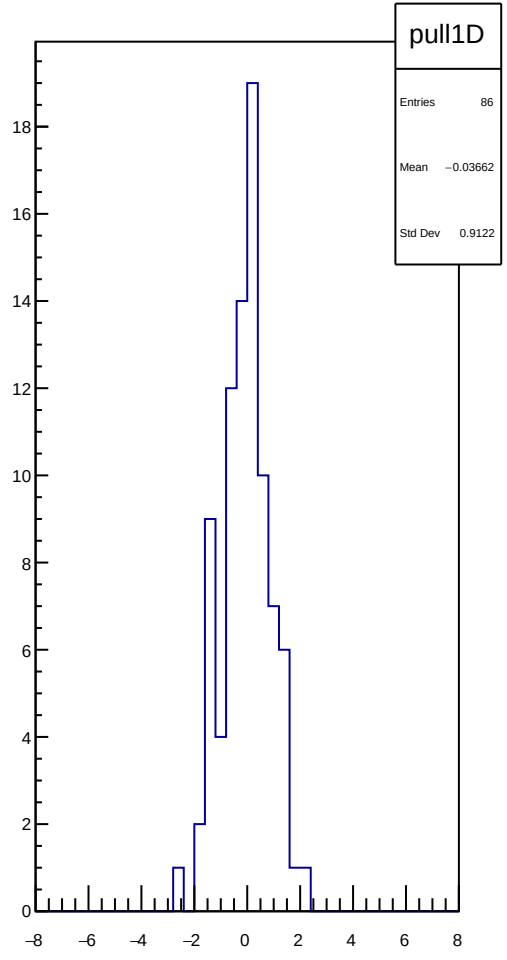

pull1D
Entries 86
Mean 0.1256
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

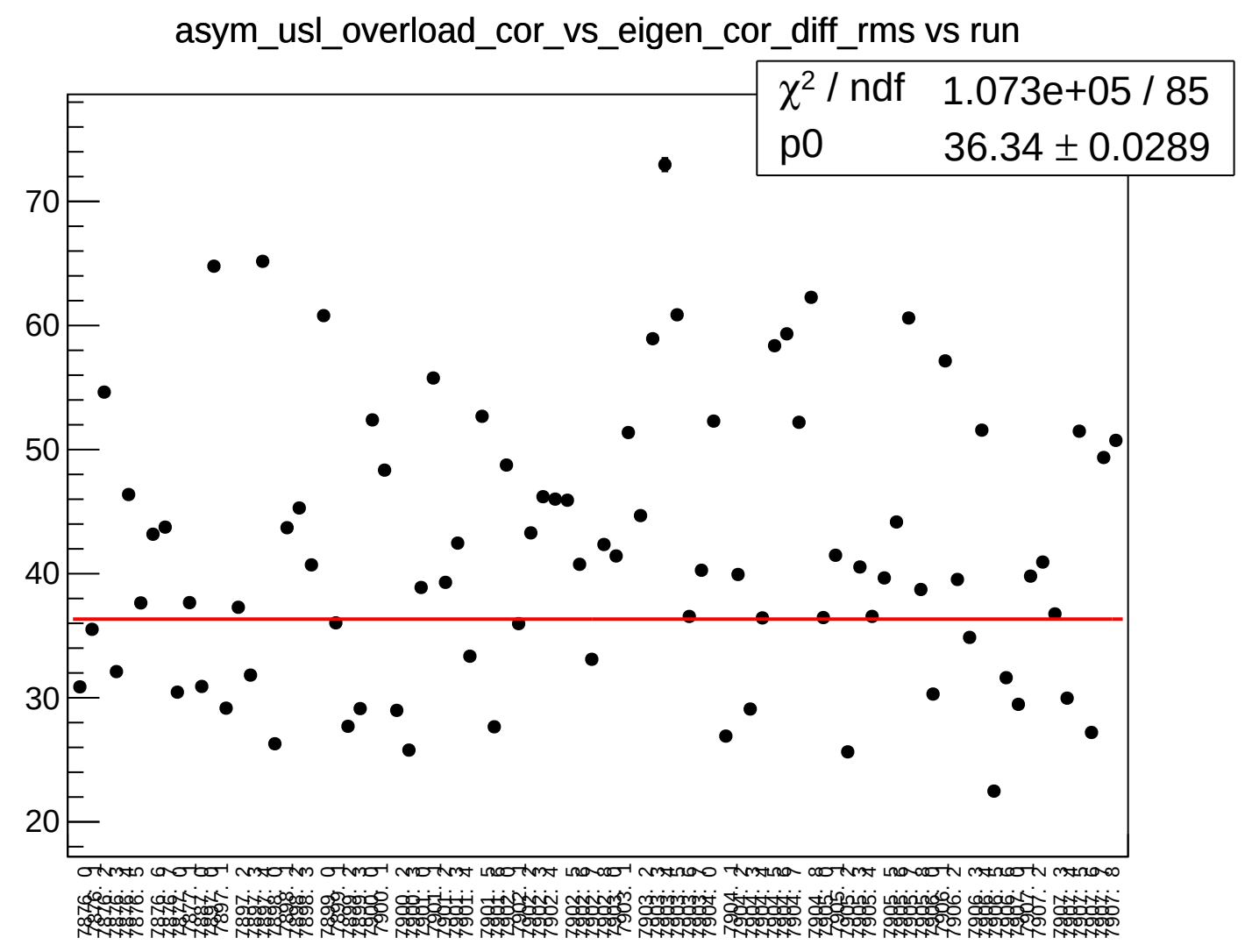

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.107e+06 / 85
p0 4.693e−11 ± 6.16e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

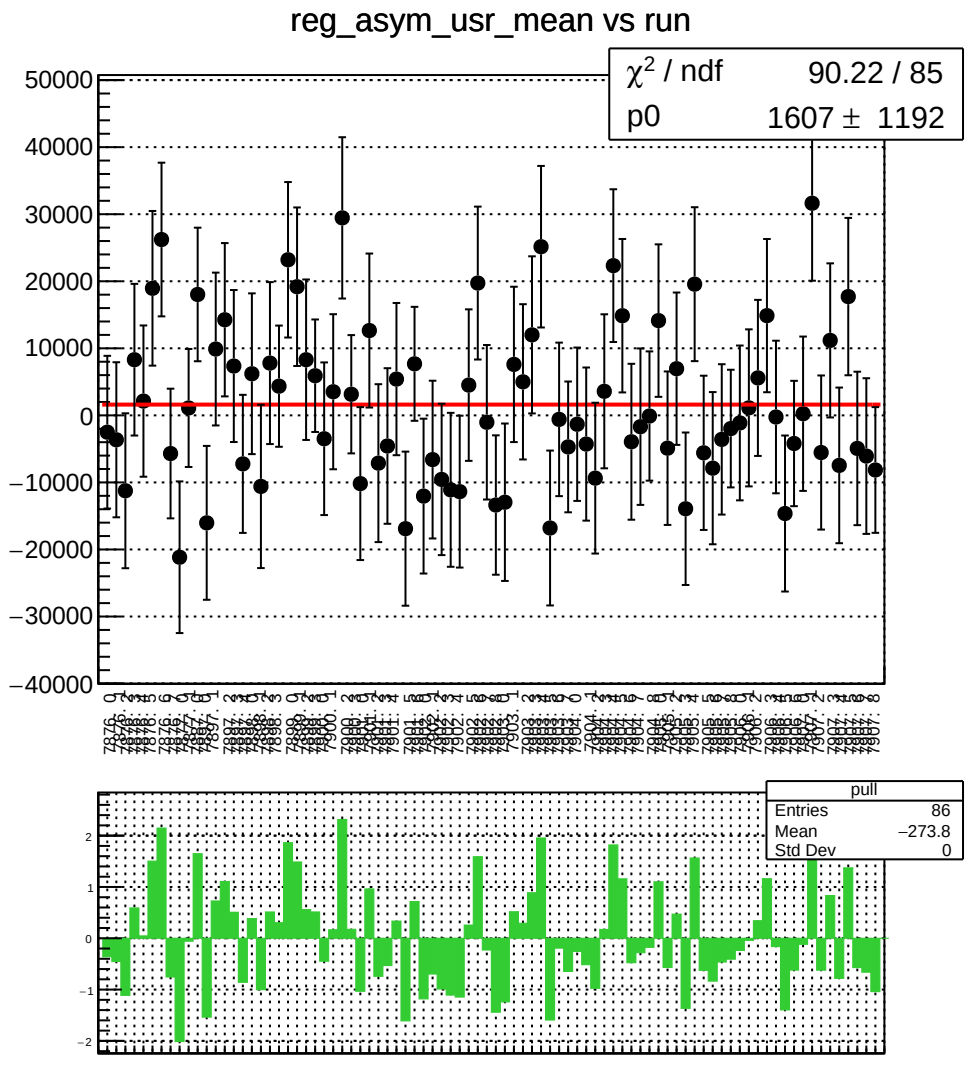

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 71.67 / 85
p0 −0.01053 ± 0.04088
pull
Entries 86
Mean 33.42
Std Dev 43.92
pull1D
Entries 86
Mean −0.03662
Std Dev 0.9122

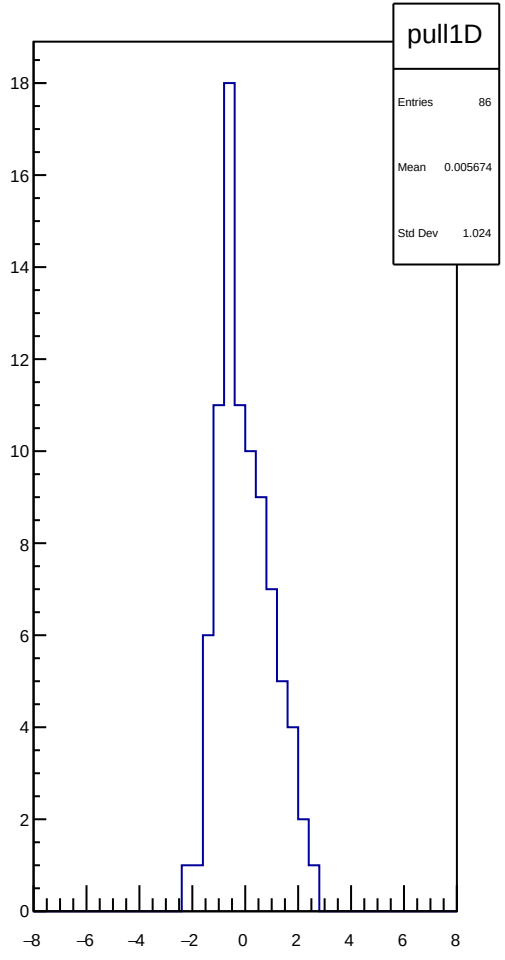

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.073e+05 / 85
p0 36.34 ± 0.0289
70
60
50
40
30
20

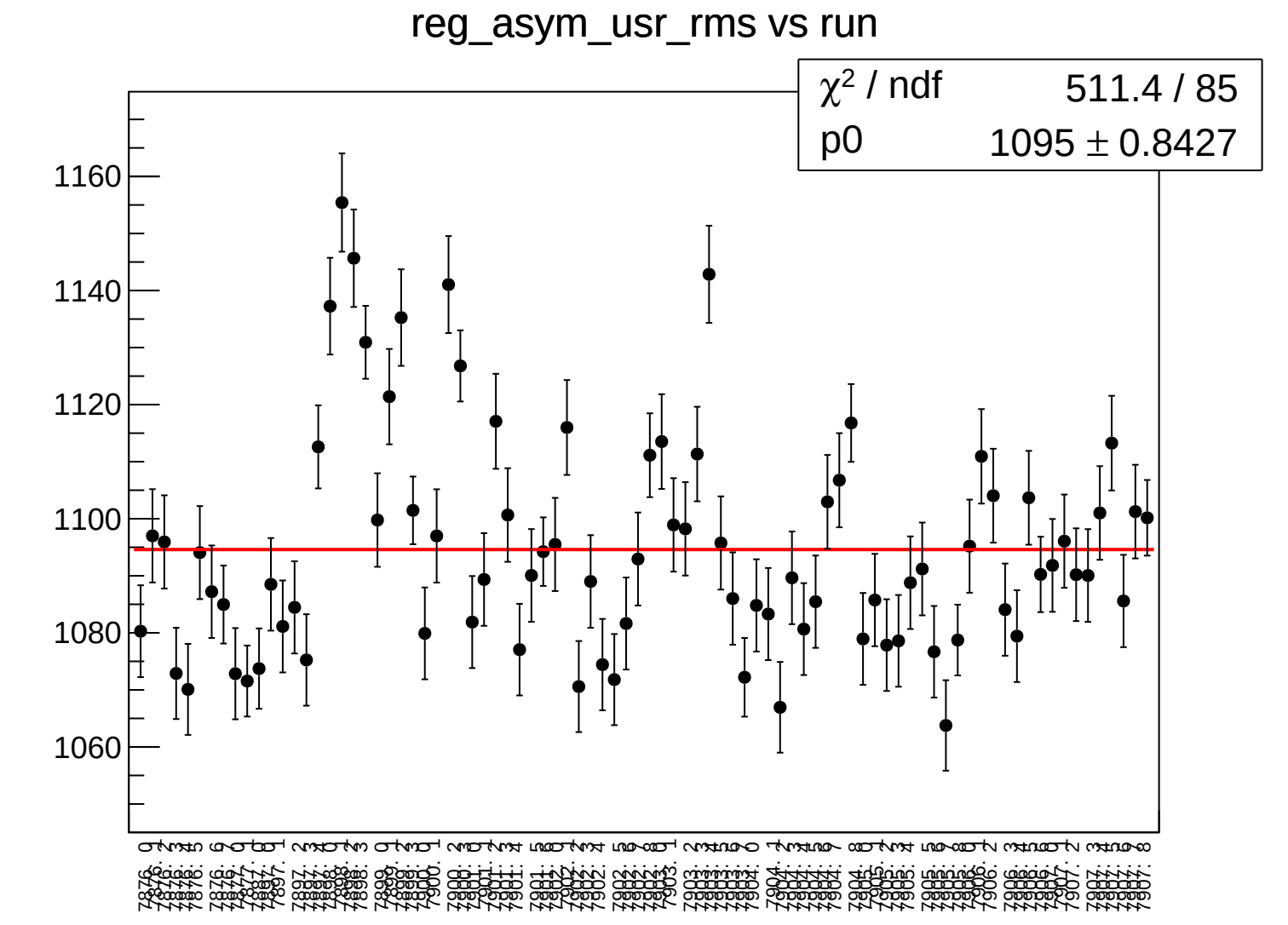

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.67 / 85
p0 −0.01053 ± 0.04088
pull
Entries 86
Mean 33.42
Std Dev 43.92

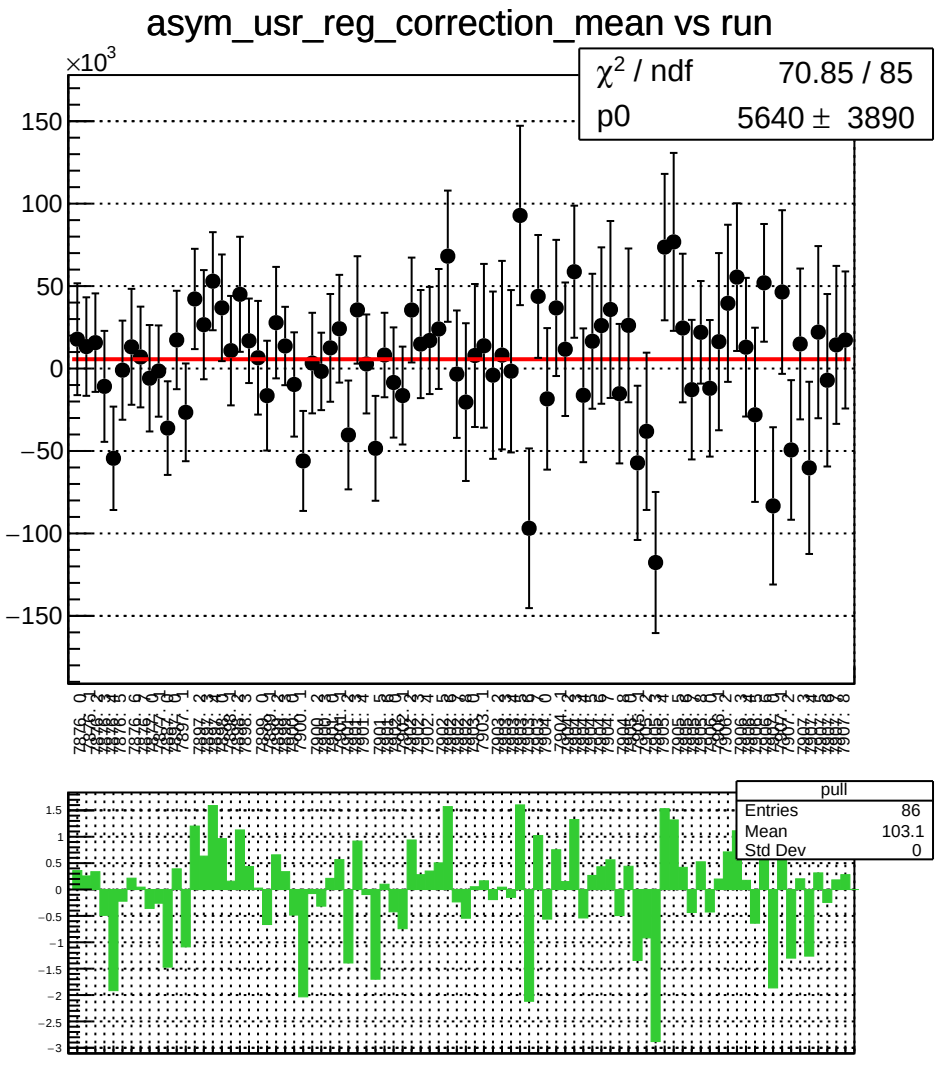

pull1D
Entries 86
Mean −0.03662
Std Dev 0.9122

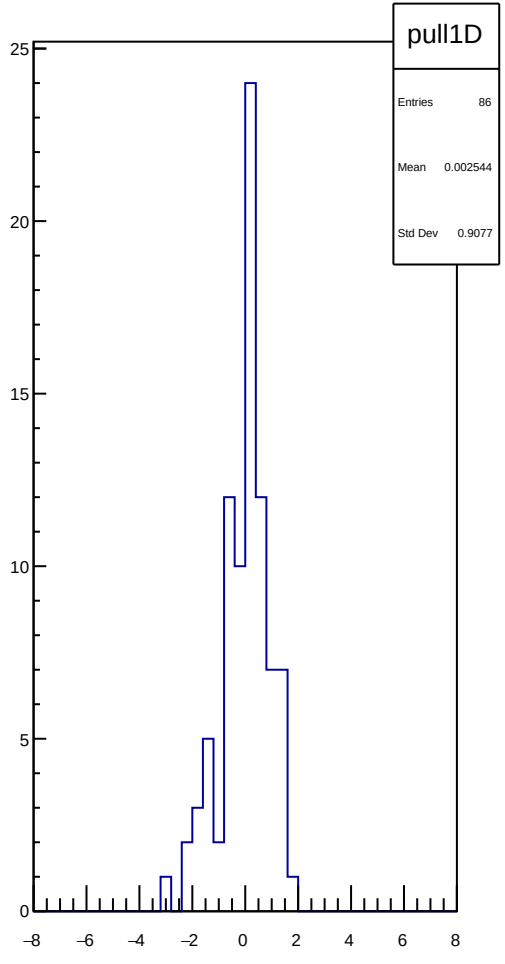

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 85
p0 36.34 ± 0.0289
70
60
50
40
30
20

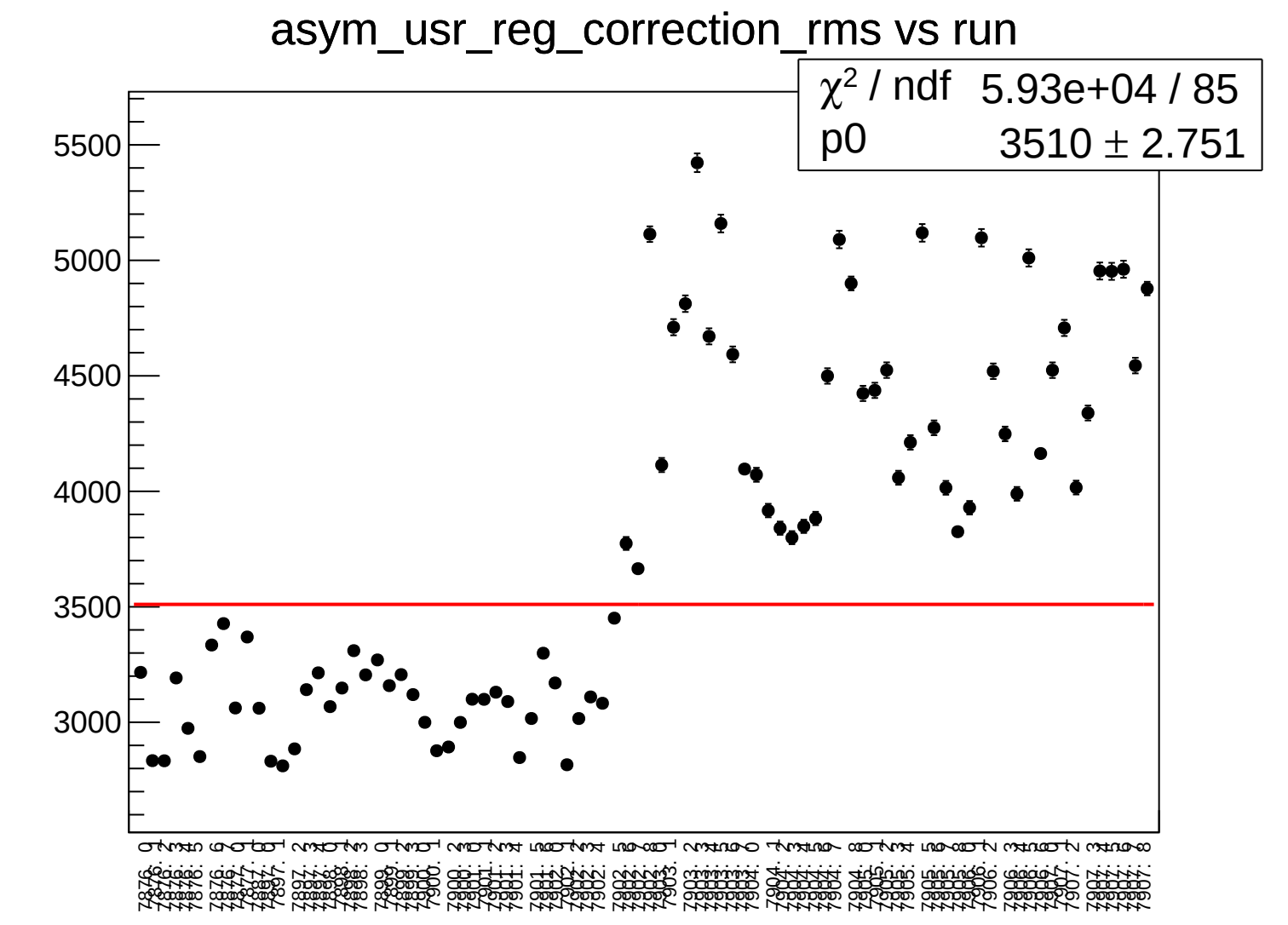

reg_asym_usr_mean vs run
χ^2 / ndf 90.22 / 85
p0 1607 ± 1192
pull
Entries 86
Mean −273.8
Std Dev 0

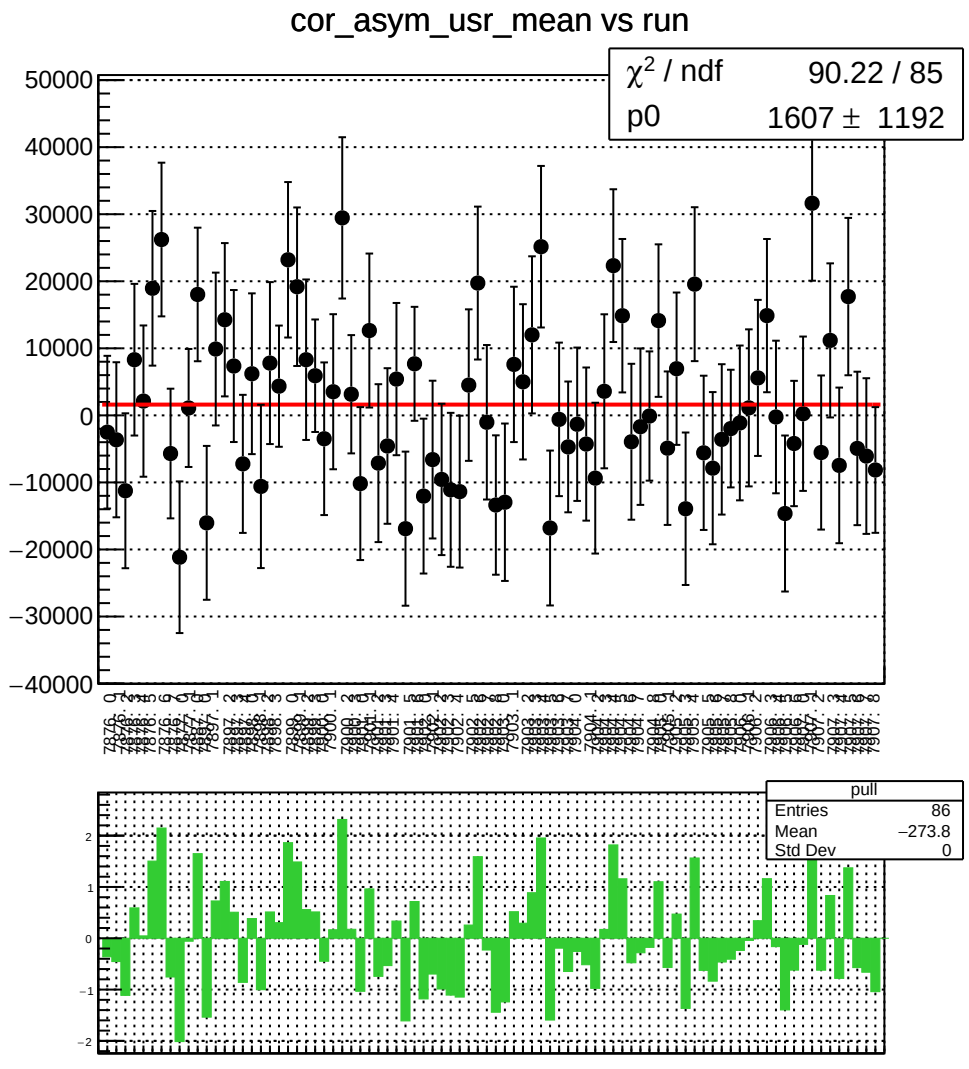

pull1D
Entries 86
Mean 0.005674
Std Dev 1.024

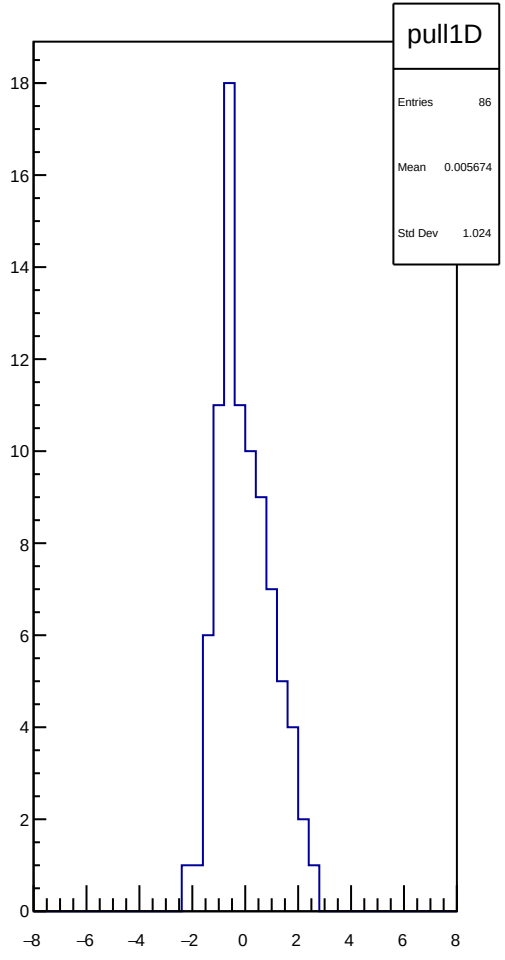

reg_asym_usr_rms vs run
χ^2 / ndf 511.4 / 85
p0 1095 ± 0.8427
1160
1140
1120
1100
1080
1060

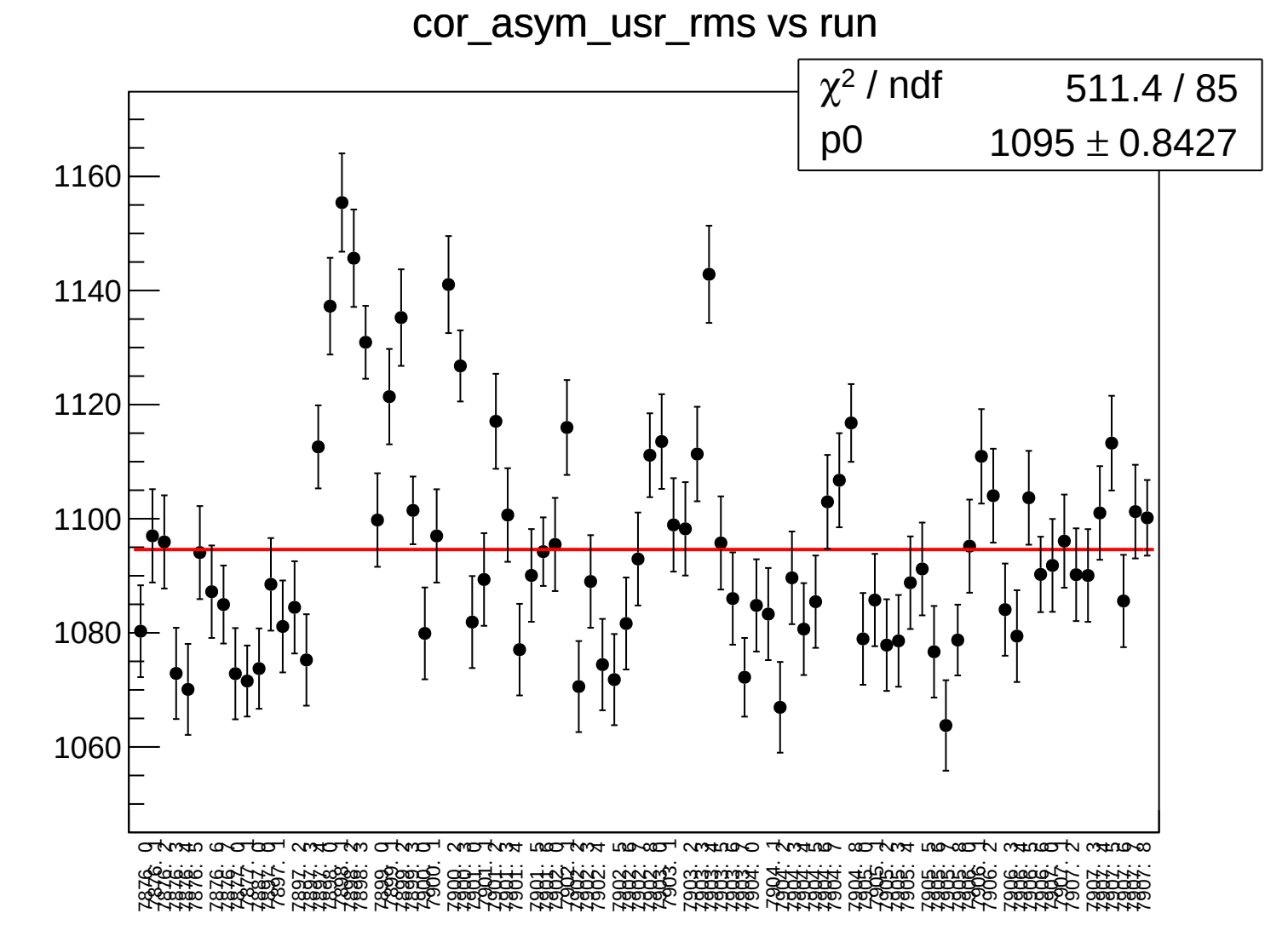

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 70.85 / 85
p0 5640 ± 3890
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 103.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

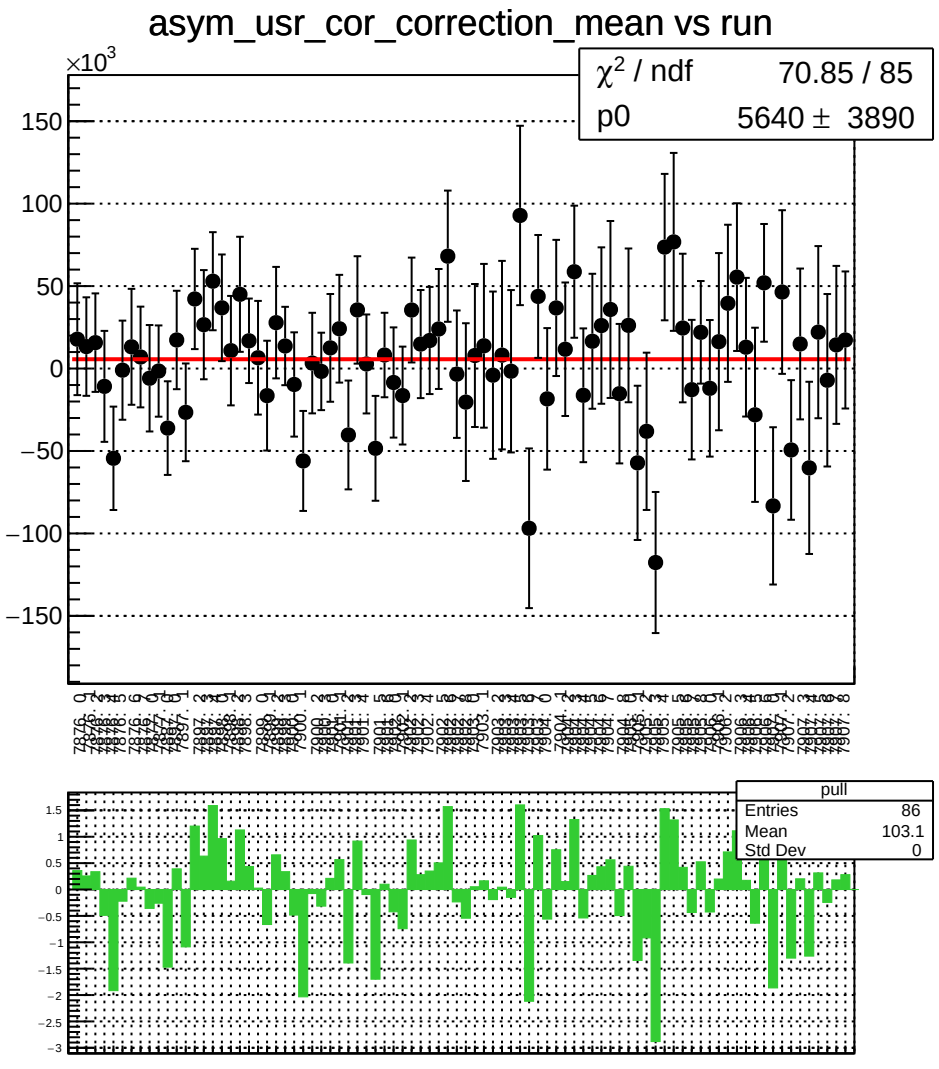

pull1D
Entries 86
Mean 0.002544
Std Dev 0.9077
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

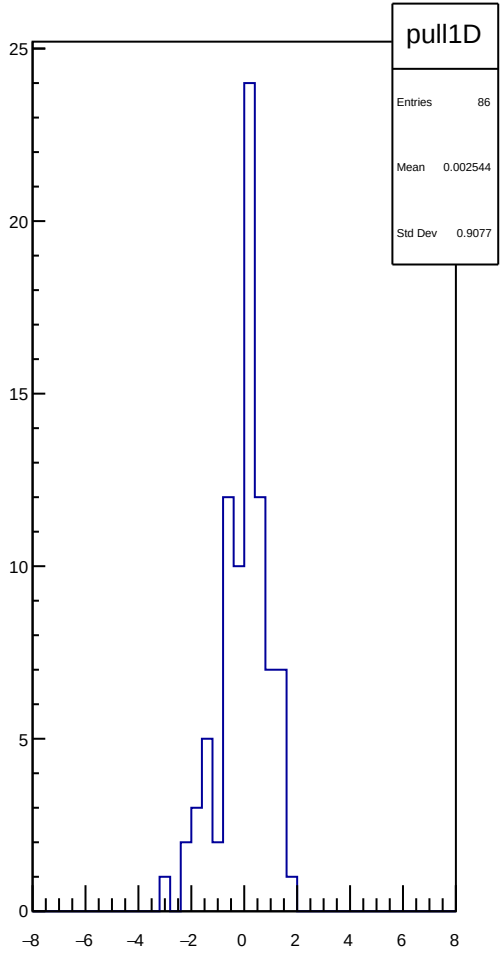

asym_usr_reg_correction_rms vs run
χ² / ndf 5.93e+04 / 85
p0 3510 ± 2.751
5500
5000
4500
4000
3500
3000

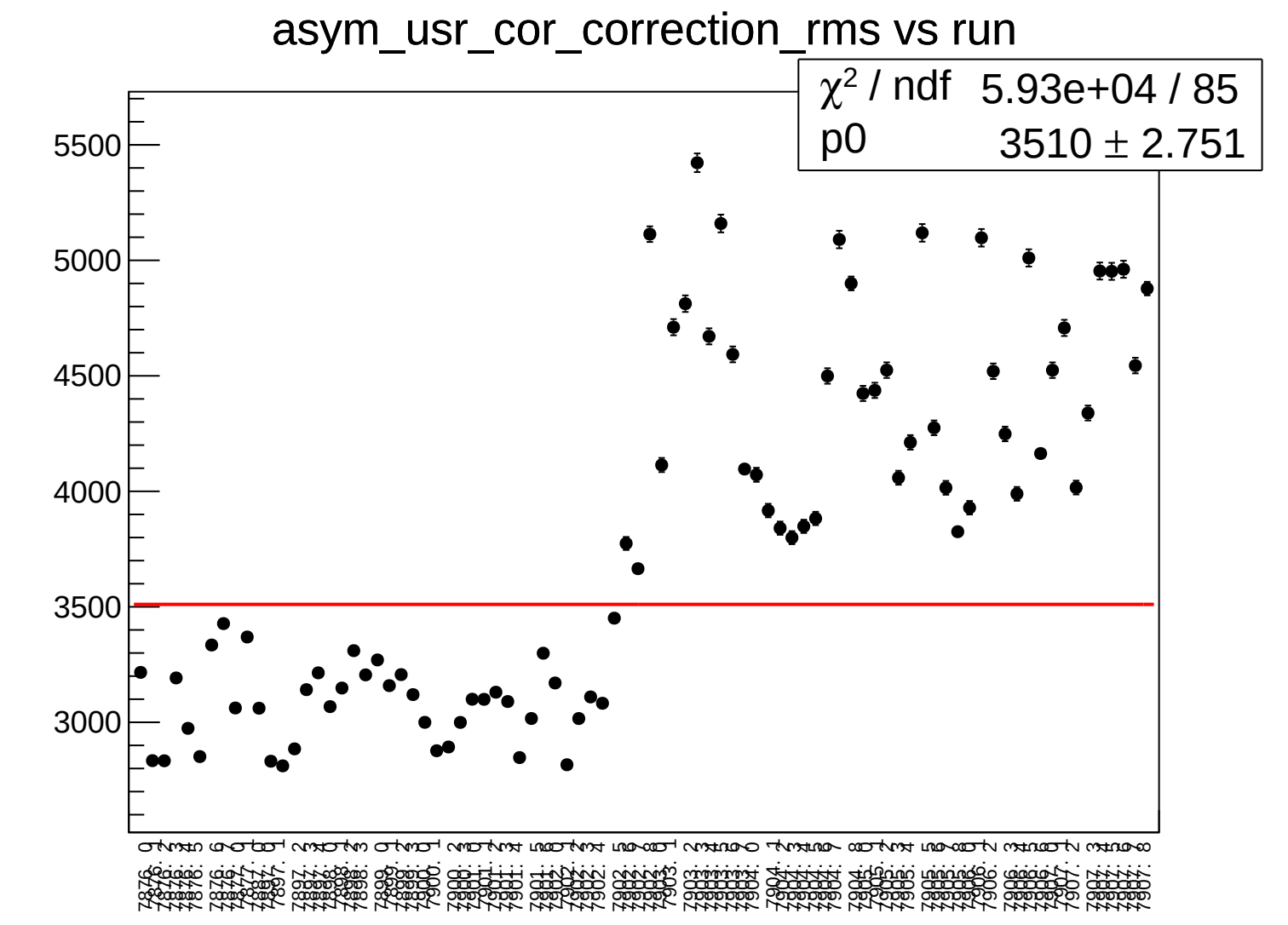

cor_asym_usr_mean vs run
χ² / ndf 90.22 / 85
p0 1607 ± 1192
pull
Entries 86
Mean −273.8
Std Dev 0

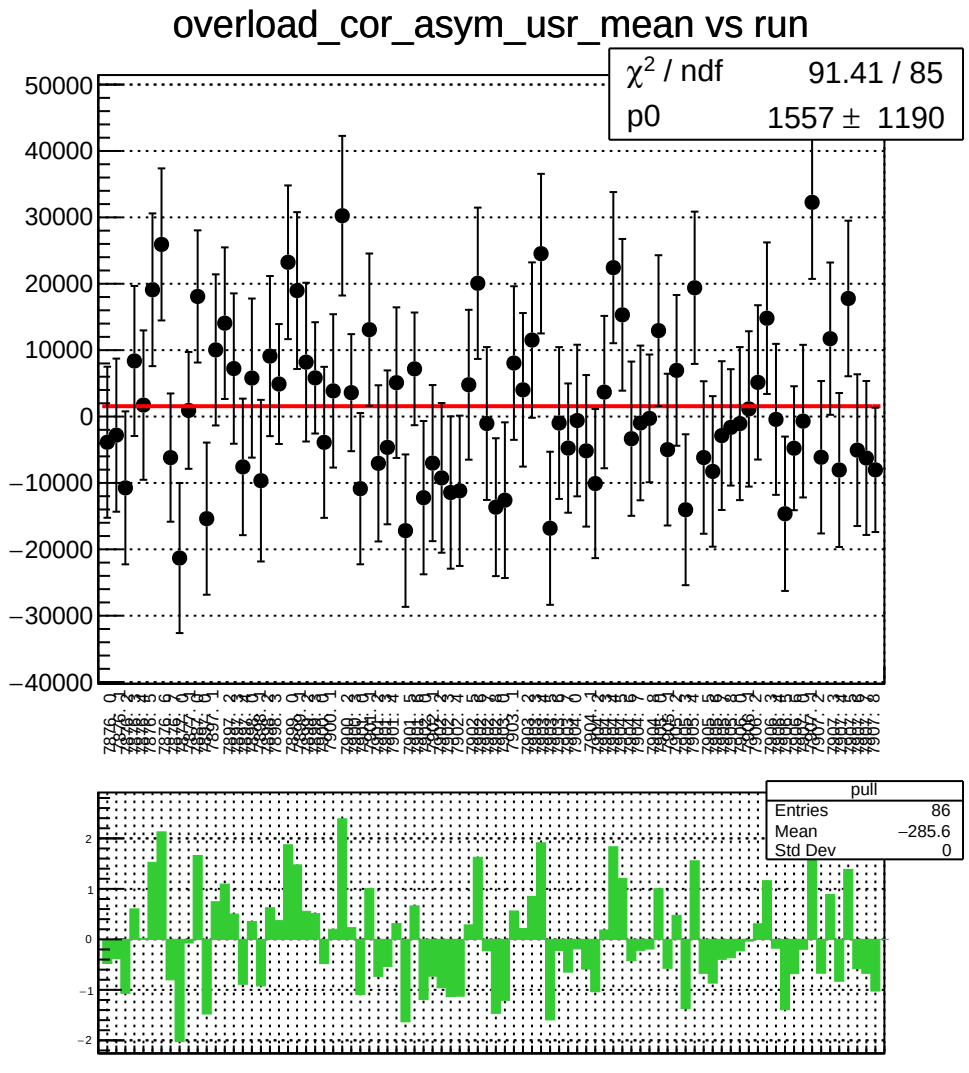

pull1D
Entries 86
Mean 0.005674
Std Dev 1.024

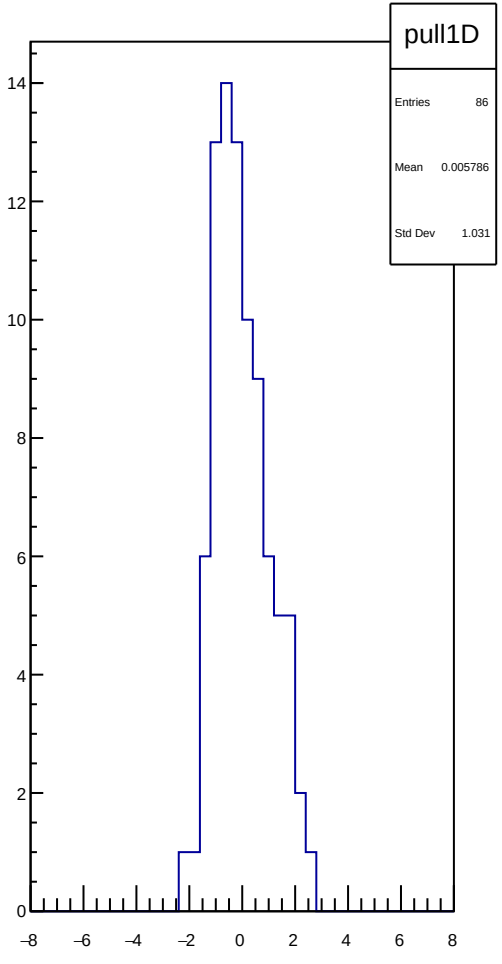

cor_asym_usr_rms vs run
χ^2 / ndf 511.4 / 85
p0 1095 ± 0.8427
1160
1140
1120
1100
1080
1060

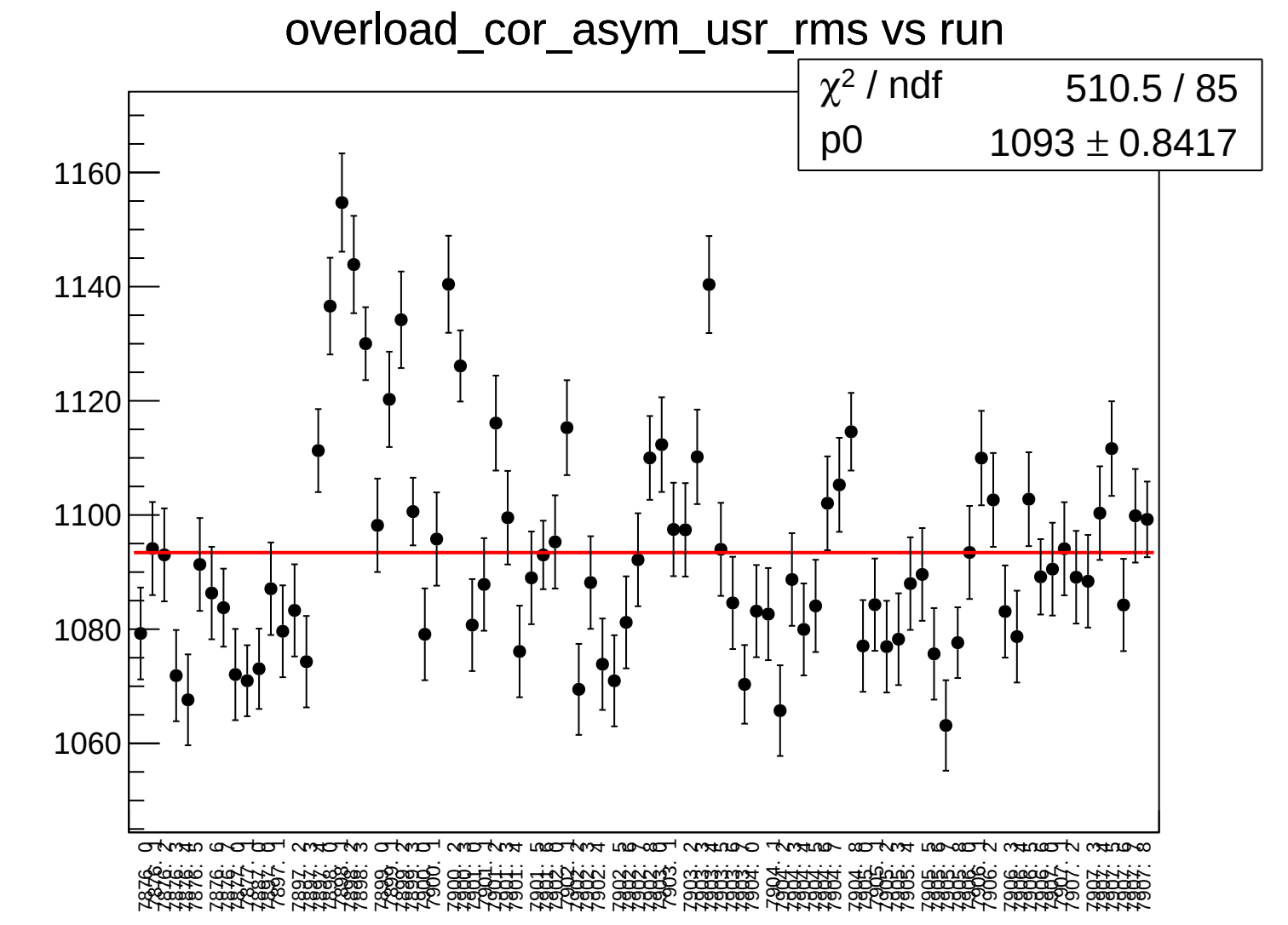

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 70.85 / 85
p0 5640 ± 3890
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 103.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

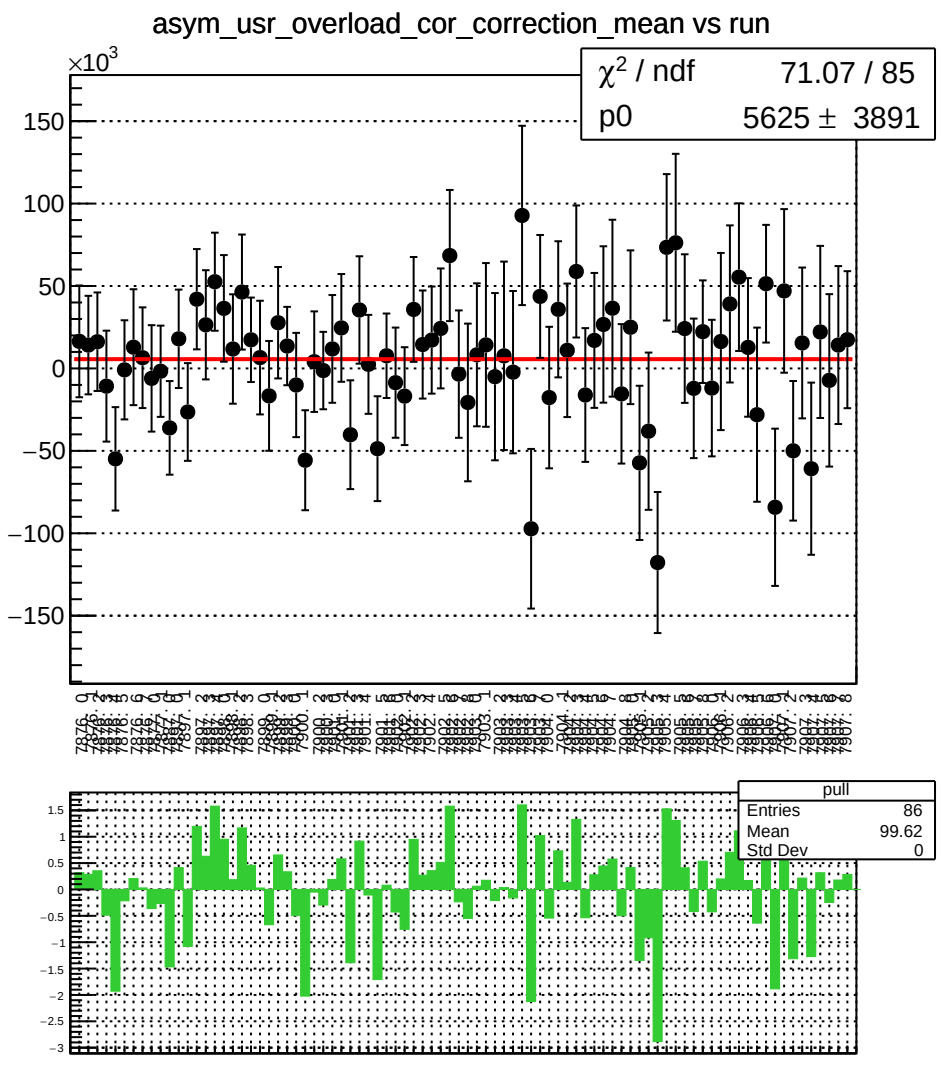

pull1D
Entries 86
Mean 0.002544
Std Dev 0.9077
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

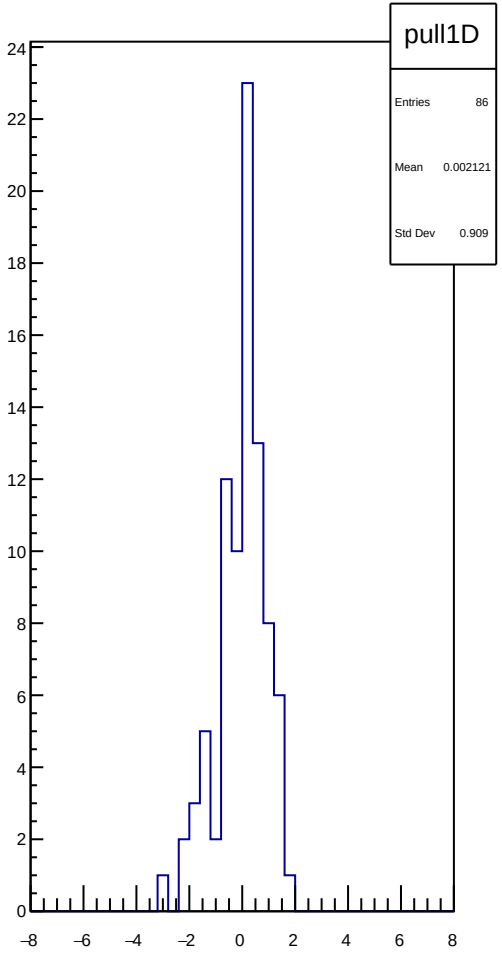

asym_usr_cor_correction_rms vs run
χ^2 / ndf 5.93e+04 / 85
p0 3510 ± 2.751
5500
5000
4500
4000
3500
3000

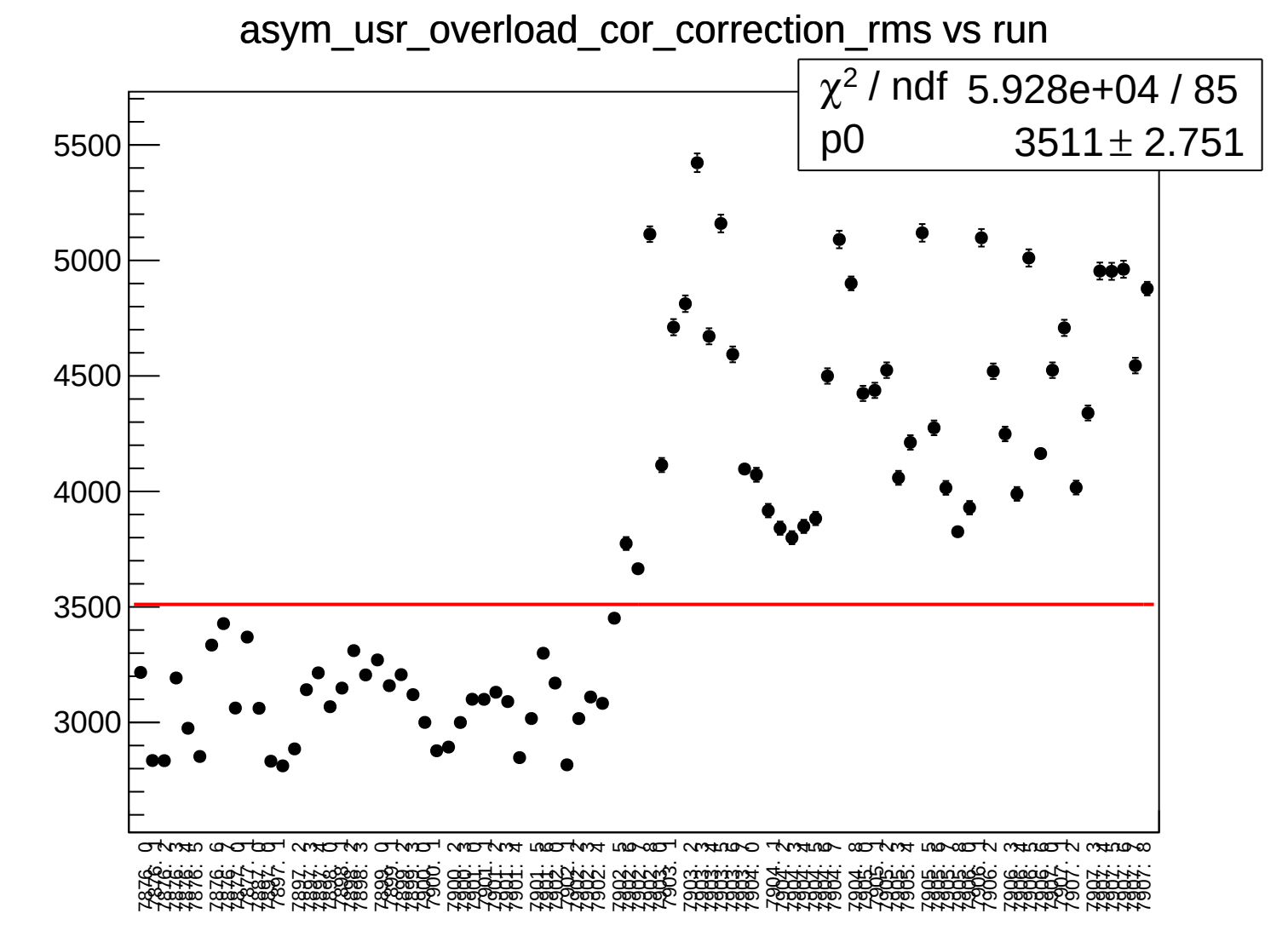

overload_cor_asym_usr_mean vs run
χ² / ndf 91.41 / 85
p0 1557 ± 1190
pull
Entries 86
Mean −285.6
Std Dev 0

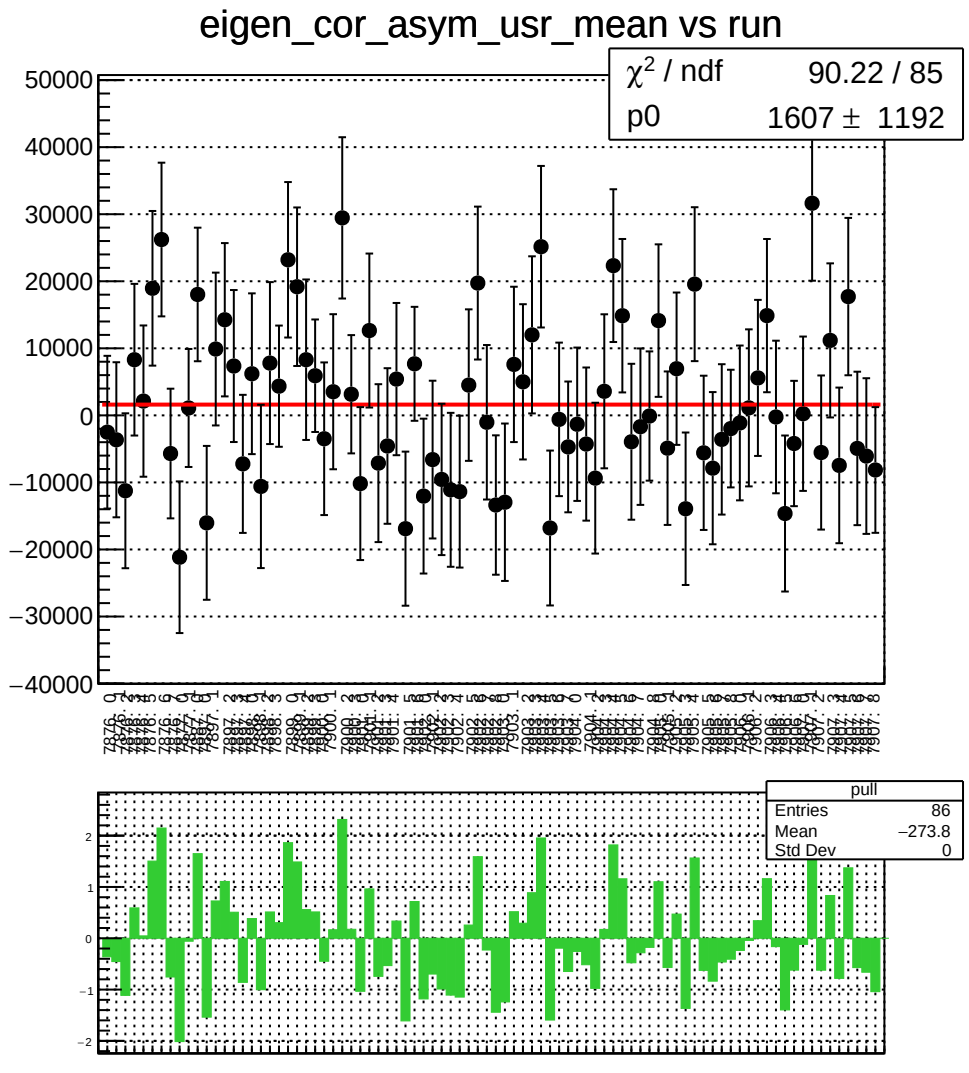

pull1D
Entries 86
Mean 0.005786
Std Dev 1.031

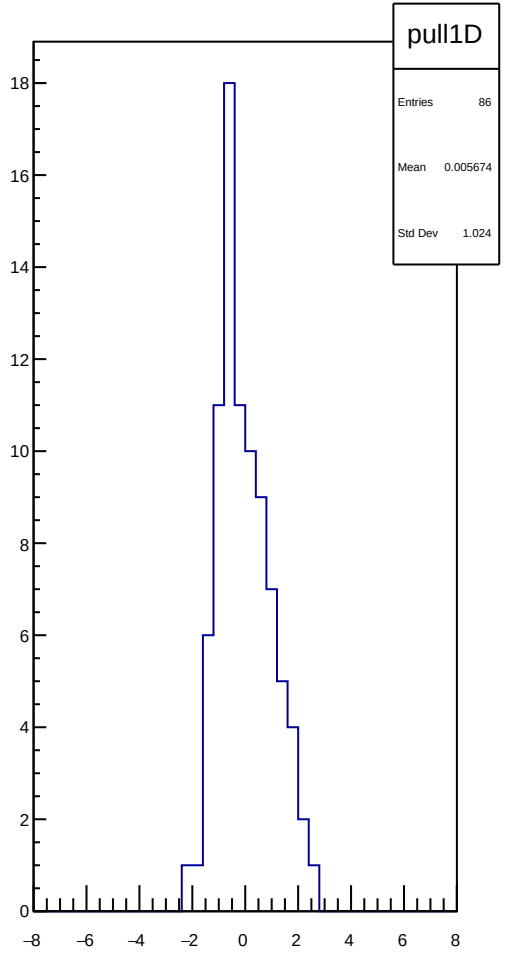

overload_cor_asym_usr_rms vs run
χ² / ndf 510.5 / 85
p0 1093 ± 0.8417
1160
1140
1120
1100
1080
1060

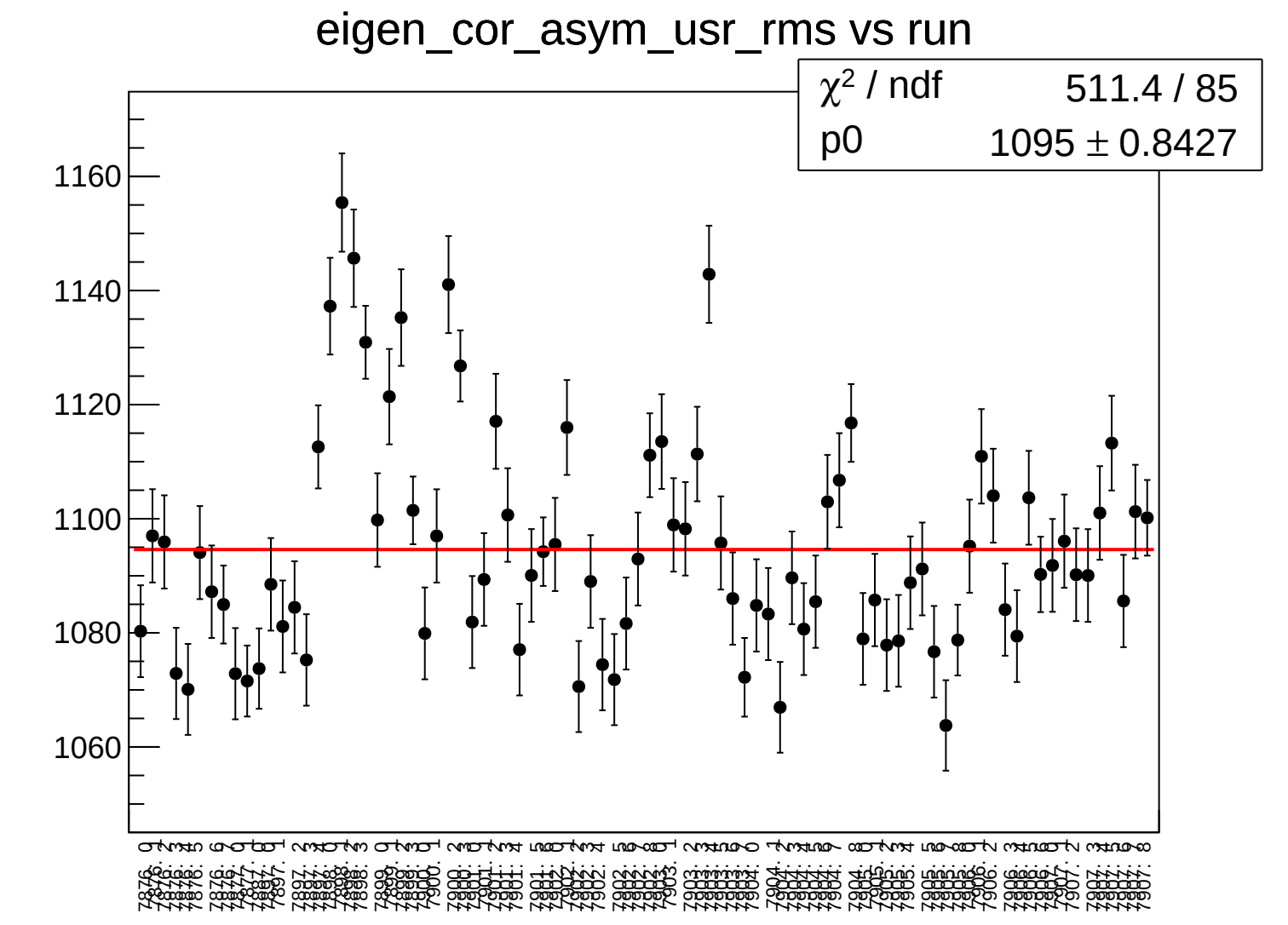

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 71.07 / 85
p0 5625 ± 3891
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 99.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

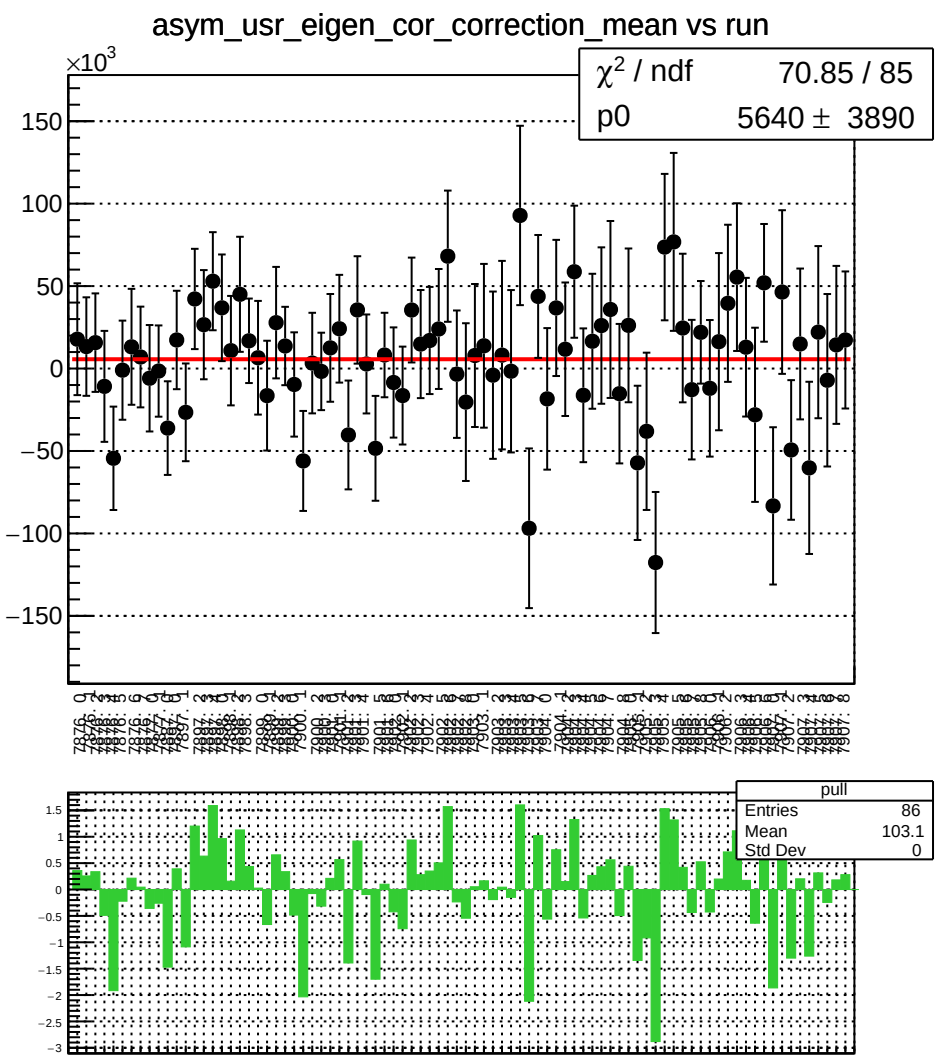

pull1D
Entries 86
Mean 0.002121
Std Dev 0.909
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

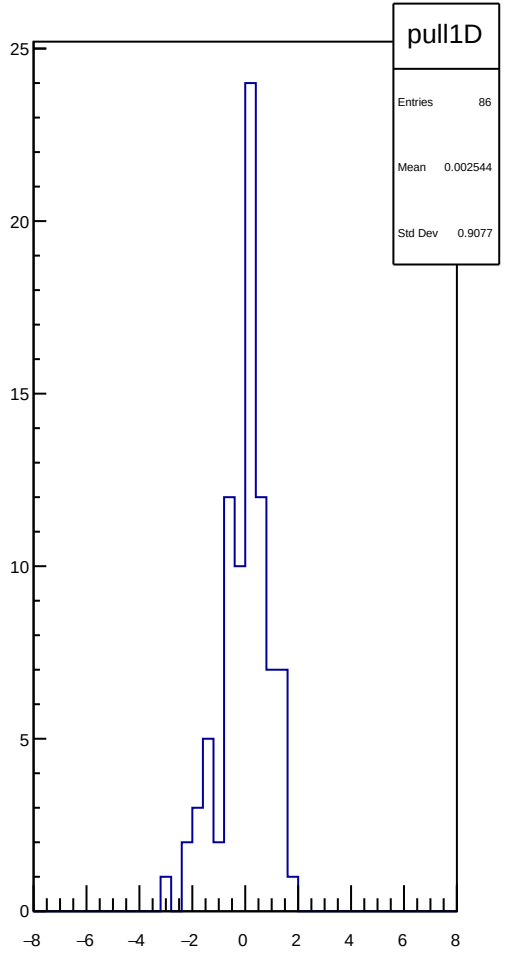

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 5.928e+04 / 85
p0 3511 ± 2.751
5500
5000
4500
4000
3500
3000

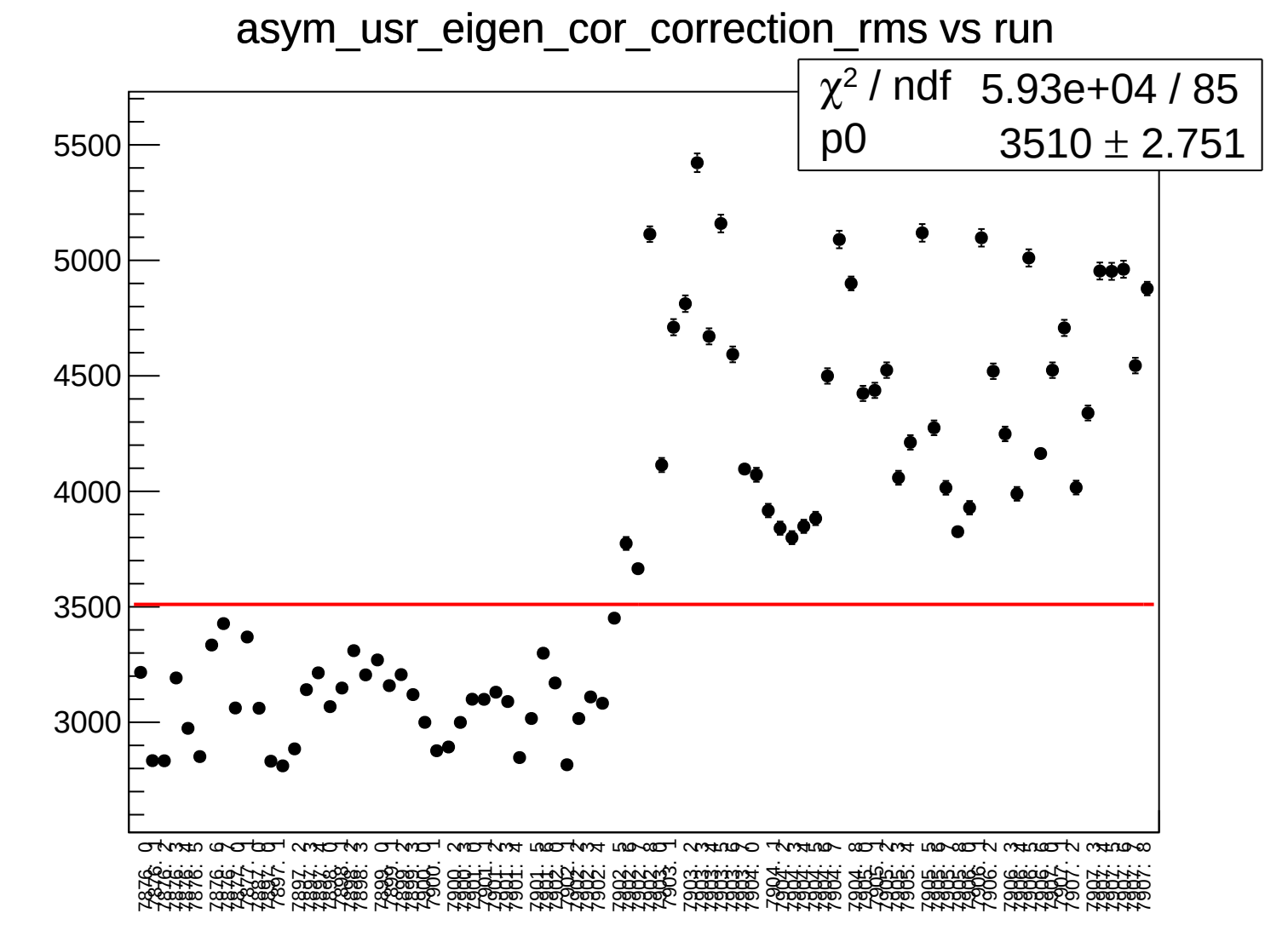

eigen_cor_asym_usr_mean vs run
χ² / ndf 90.22 / 85
p0 1607 ± 1192
pull
Entries 86
Mean −273.8
Std Dev 0

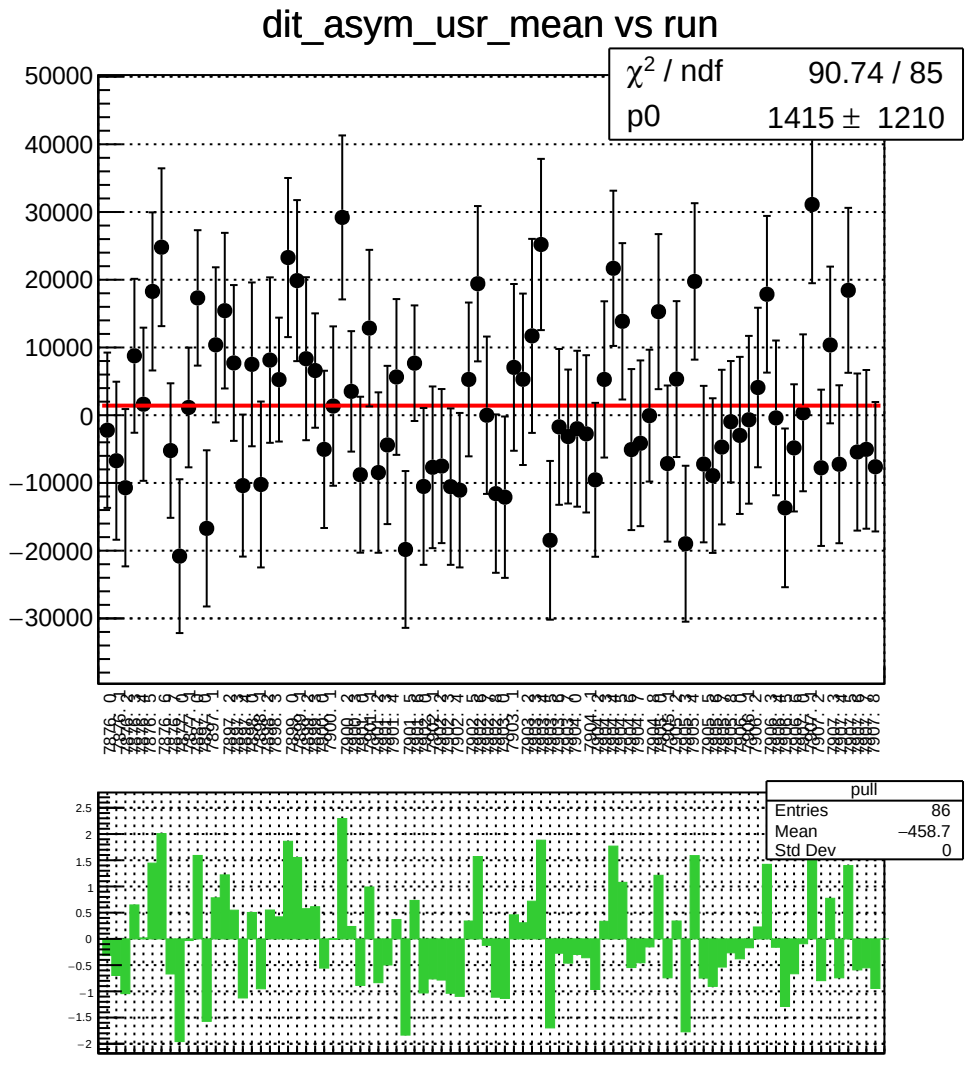

pull1D
Entries 86
Mean 0.005674
Std Dev 1.024

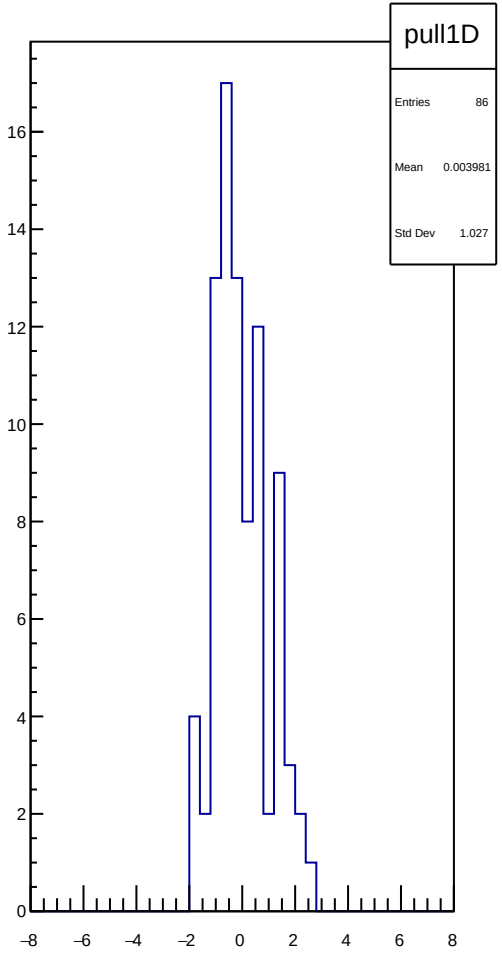

eigen_cor_asym_usr_rms vs run
χ² / ndf 511.4 / 85
p0 1095 ± 0.8427
1160
1140
1120
1100
1080
1060

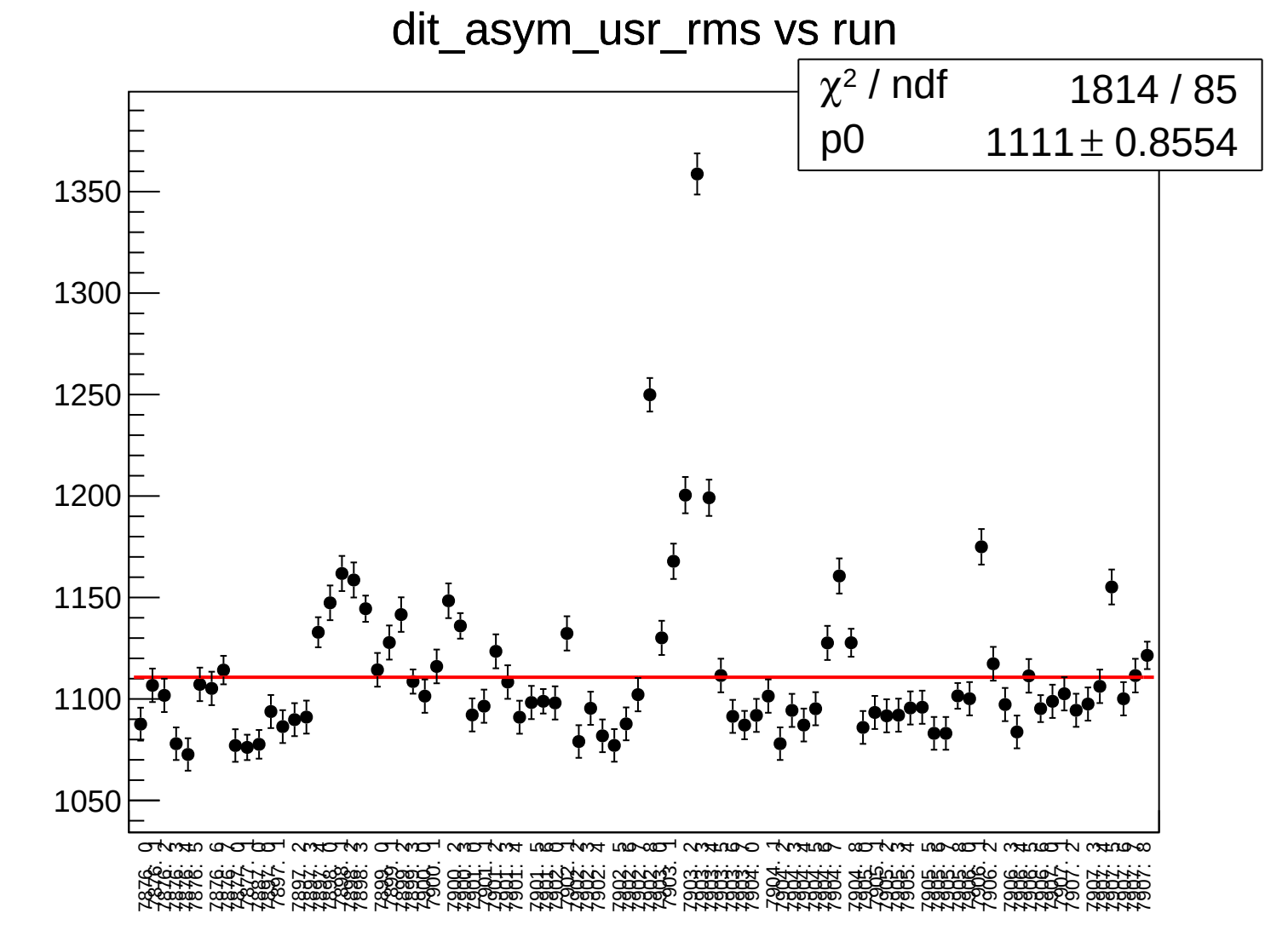

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.85 / 85
p0 5640 ± 3890
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 103.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

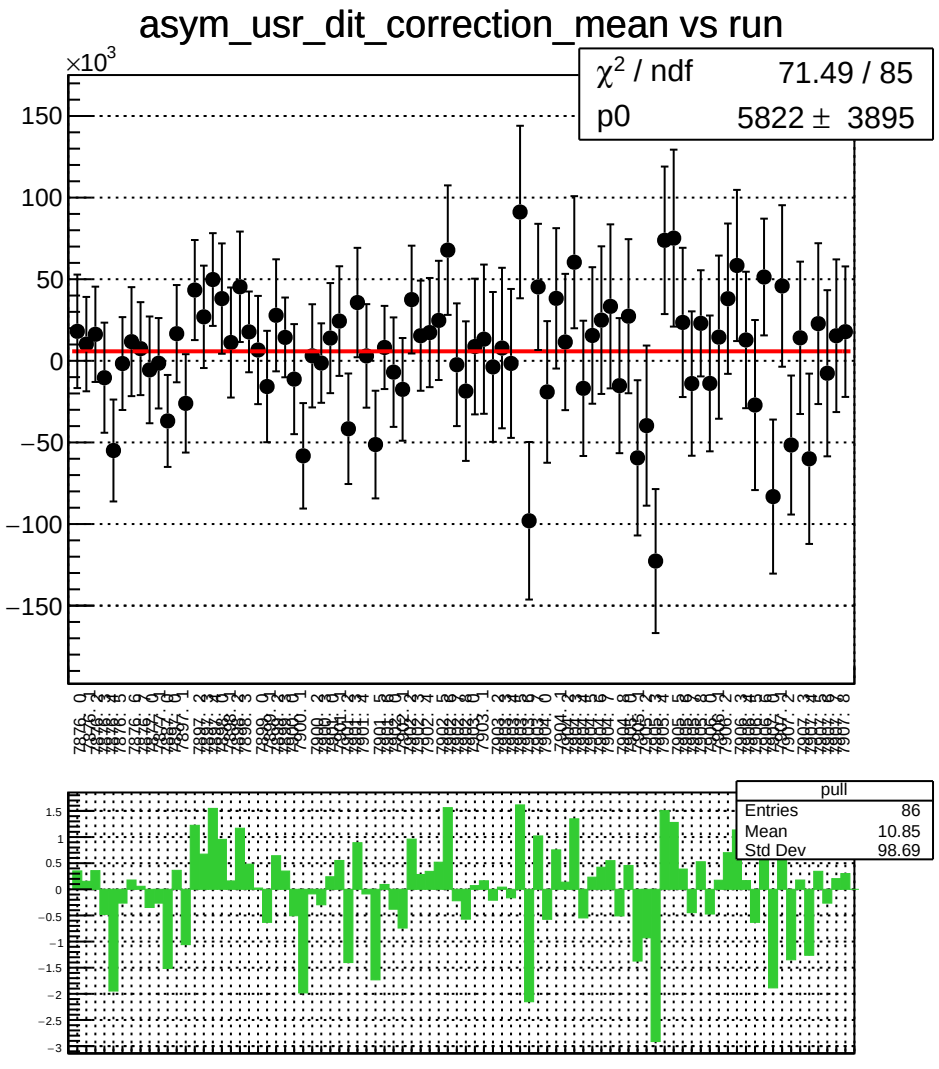

pull1D
Entries 86
Mean 0.002544
Std Dev 0.9077
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

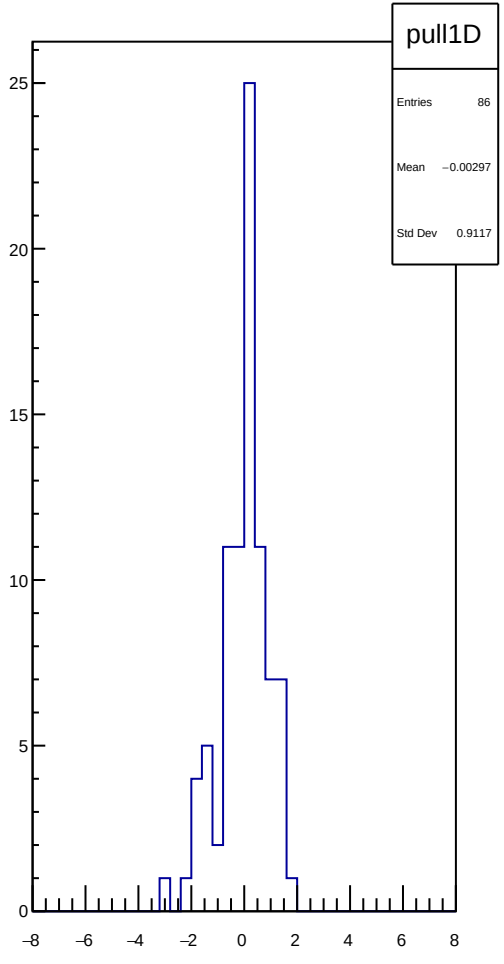

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 5.93e+04 / 85
p0 3510 ± 2.751
5500
5000
4500
4000
3500
3000

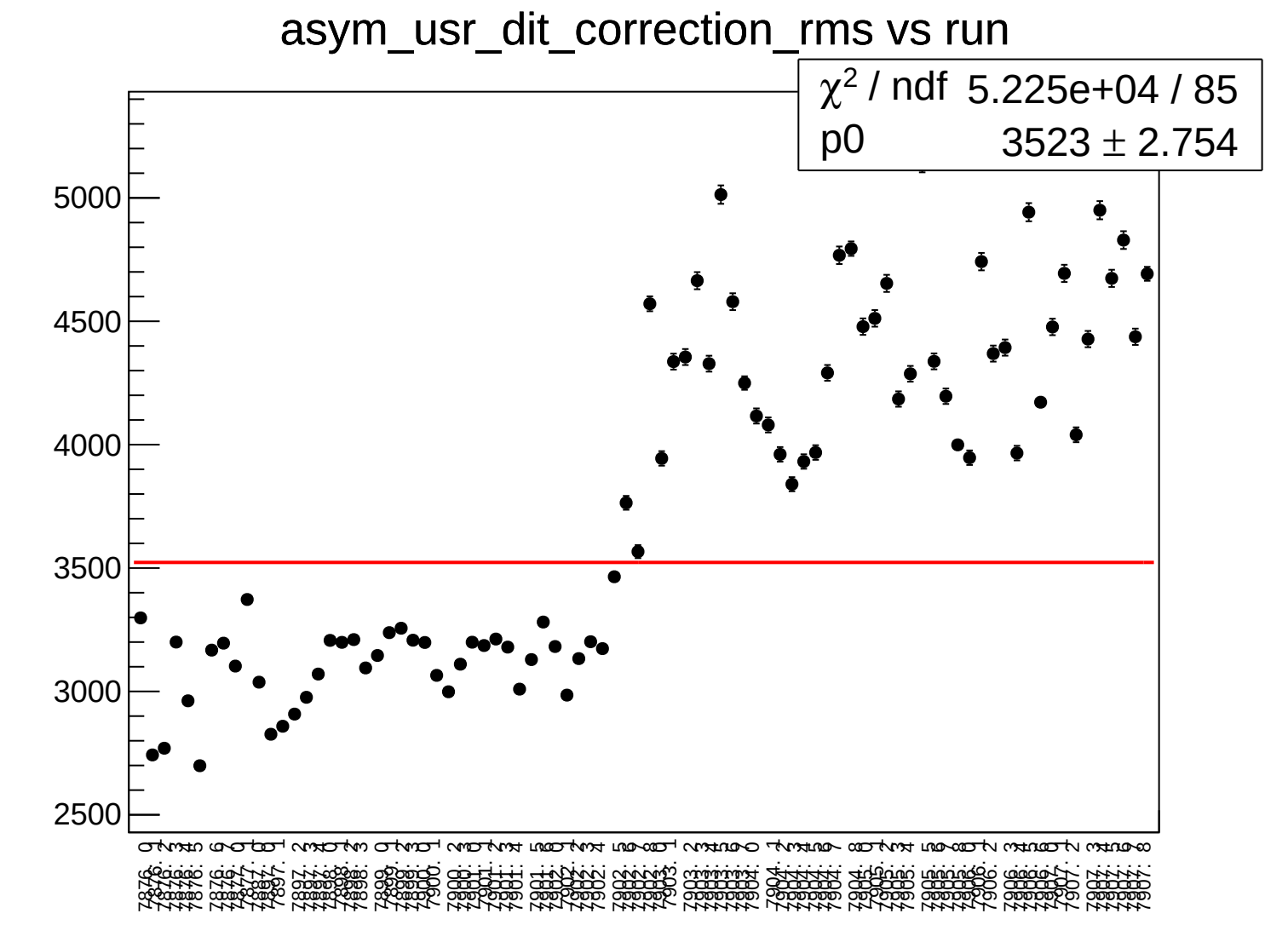

dit_asym_usr_mean vs run
χ^2 / ndf 90.74 / 85
p0 1415 ± 1210
pull
Entries 86
Mean −458.7
Std Dev 0

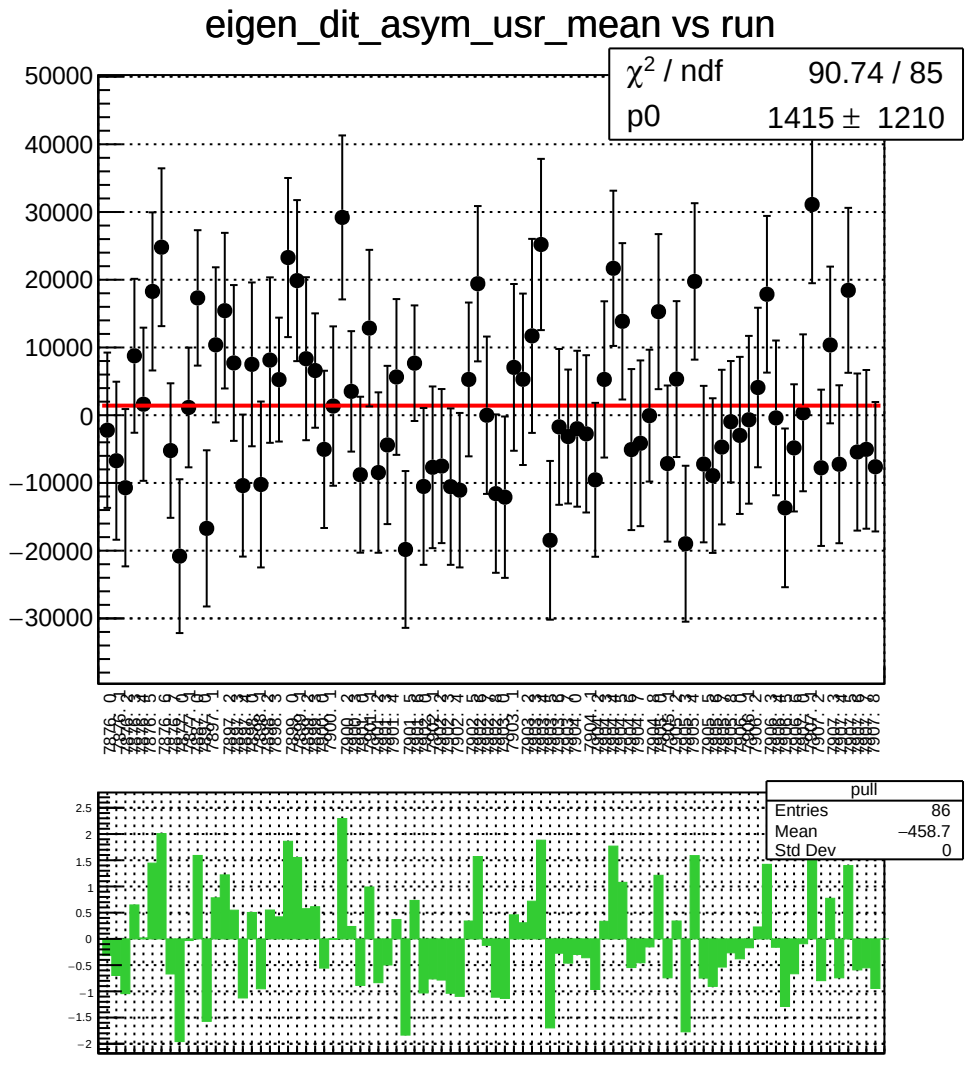

pull1D
Entries 86
Mean 0.003981
Std Dev 1.027

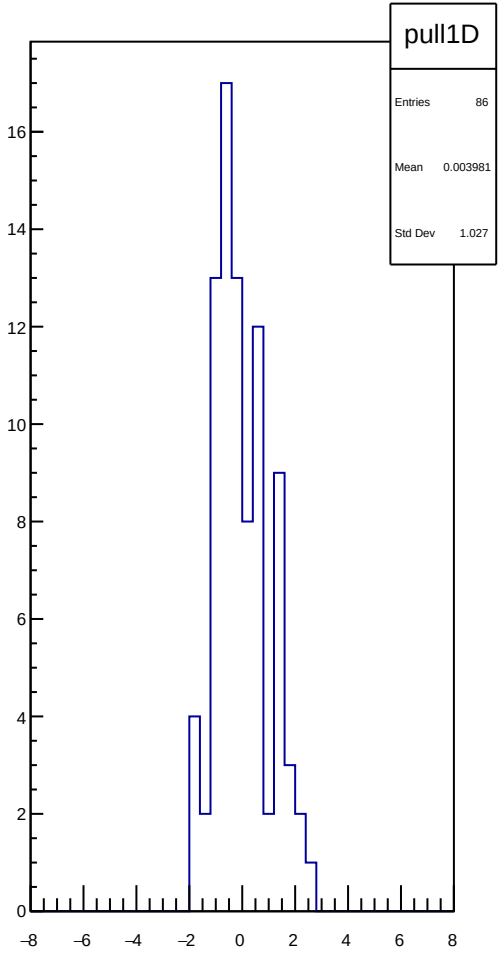

dit_asym_usr_rms vs run
χ² / ndf 1814 / 85
p0 1111 ± 0.8554
1350
1300
1250
1200
1150
1100
1050

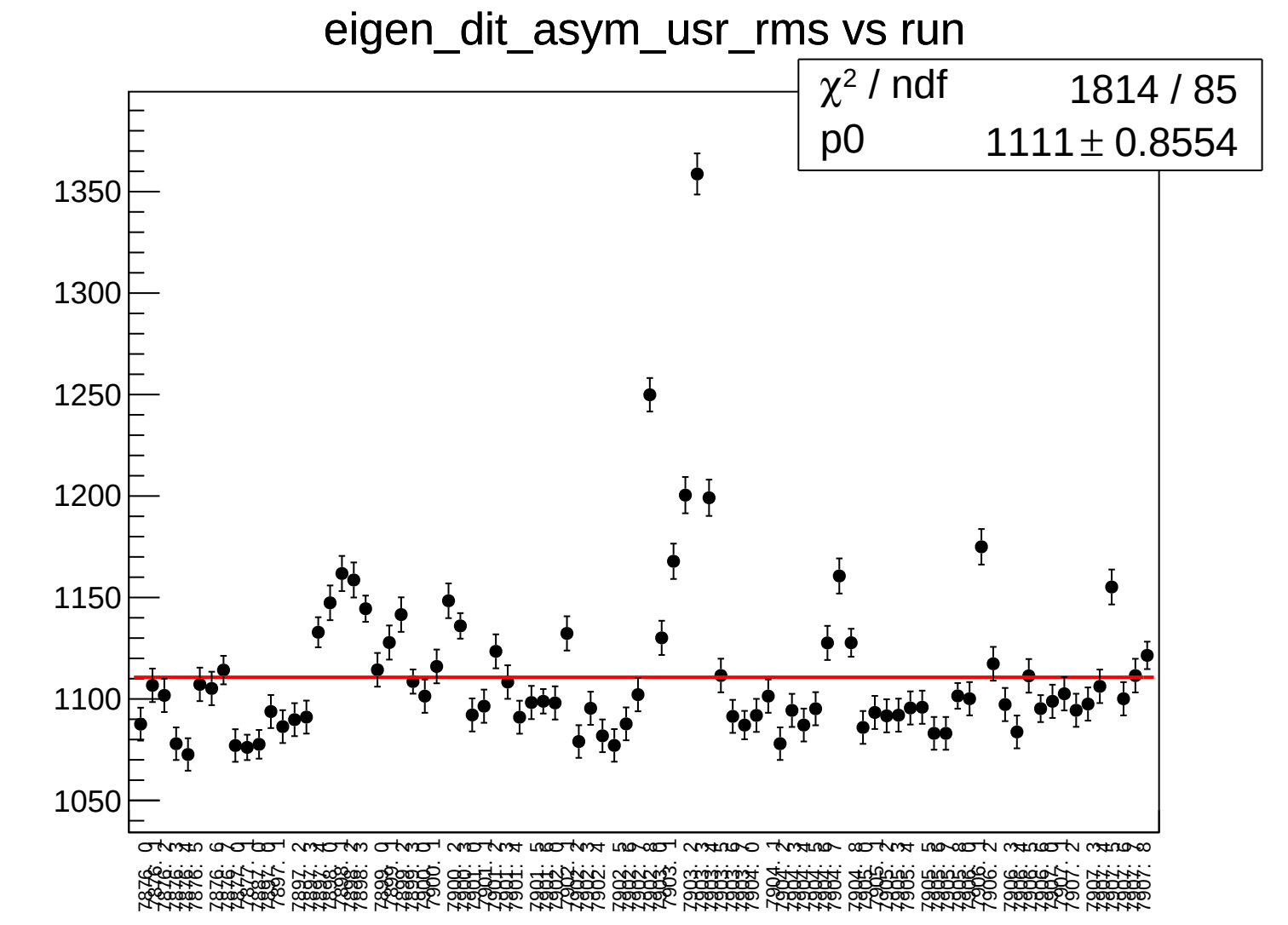

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 71.49 / 85
p0 5822 ± 3895
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 10.85
Std Dev 98.69
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

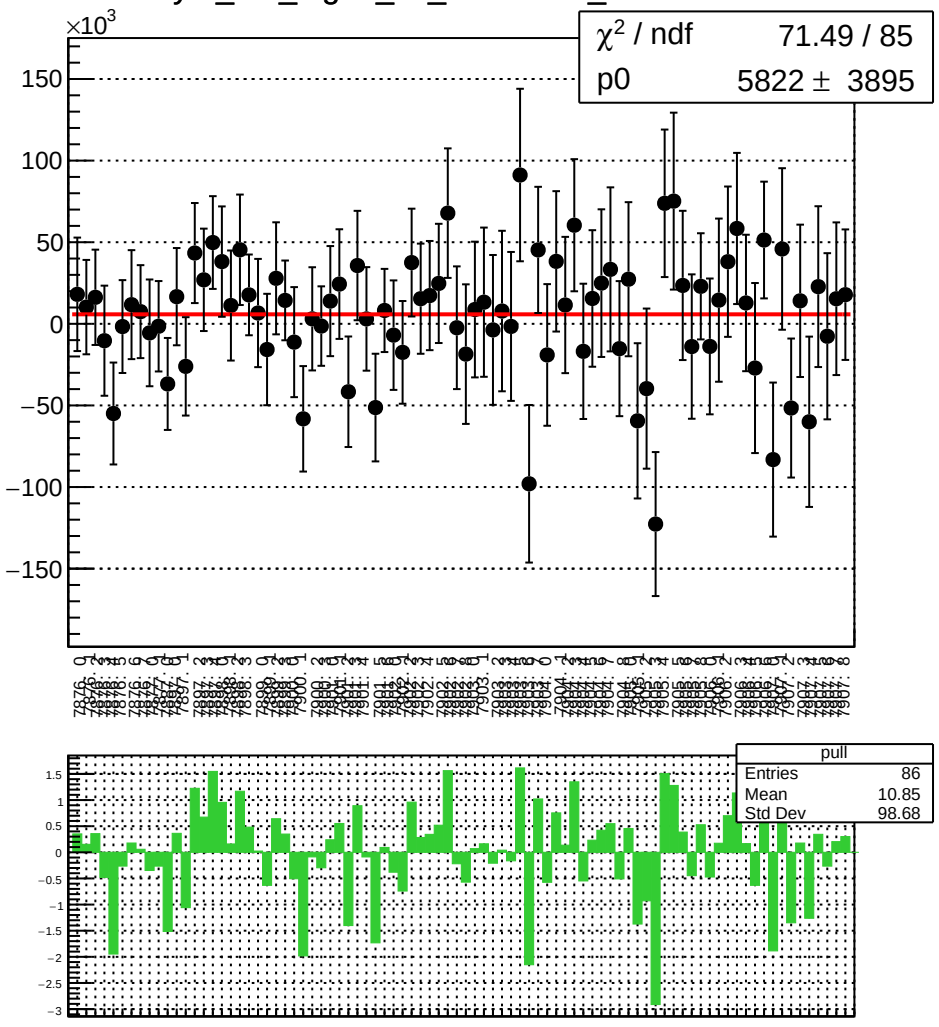

pull1D
Entries 86
Mean −0.00297
Std Dev 0.9117
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

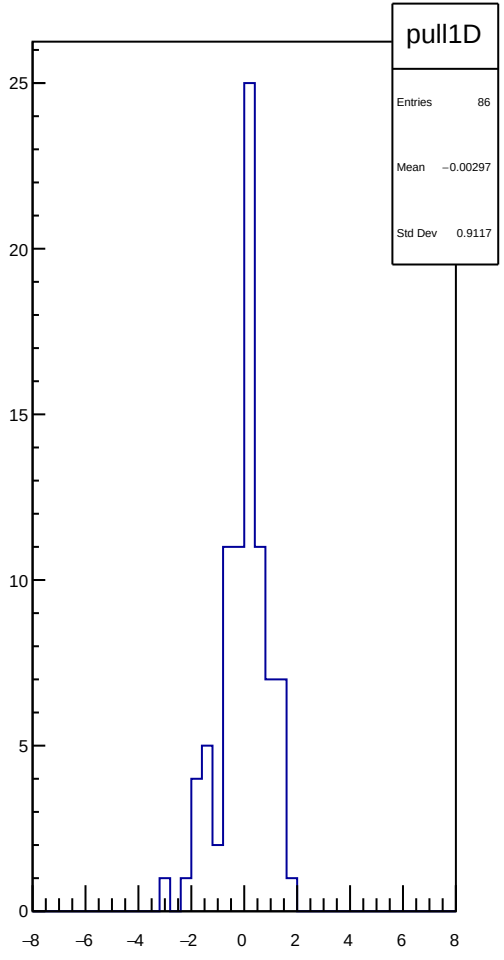

asym_usr_dit_correction_rms vs run
χ^2 / ndf 5.225e+04 / 85
p0 3523 ± 2.754
5000
4500
4000
3500
3000
2500

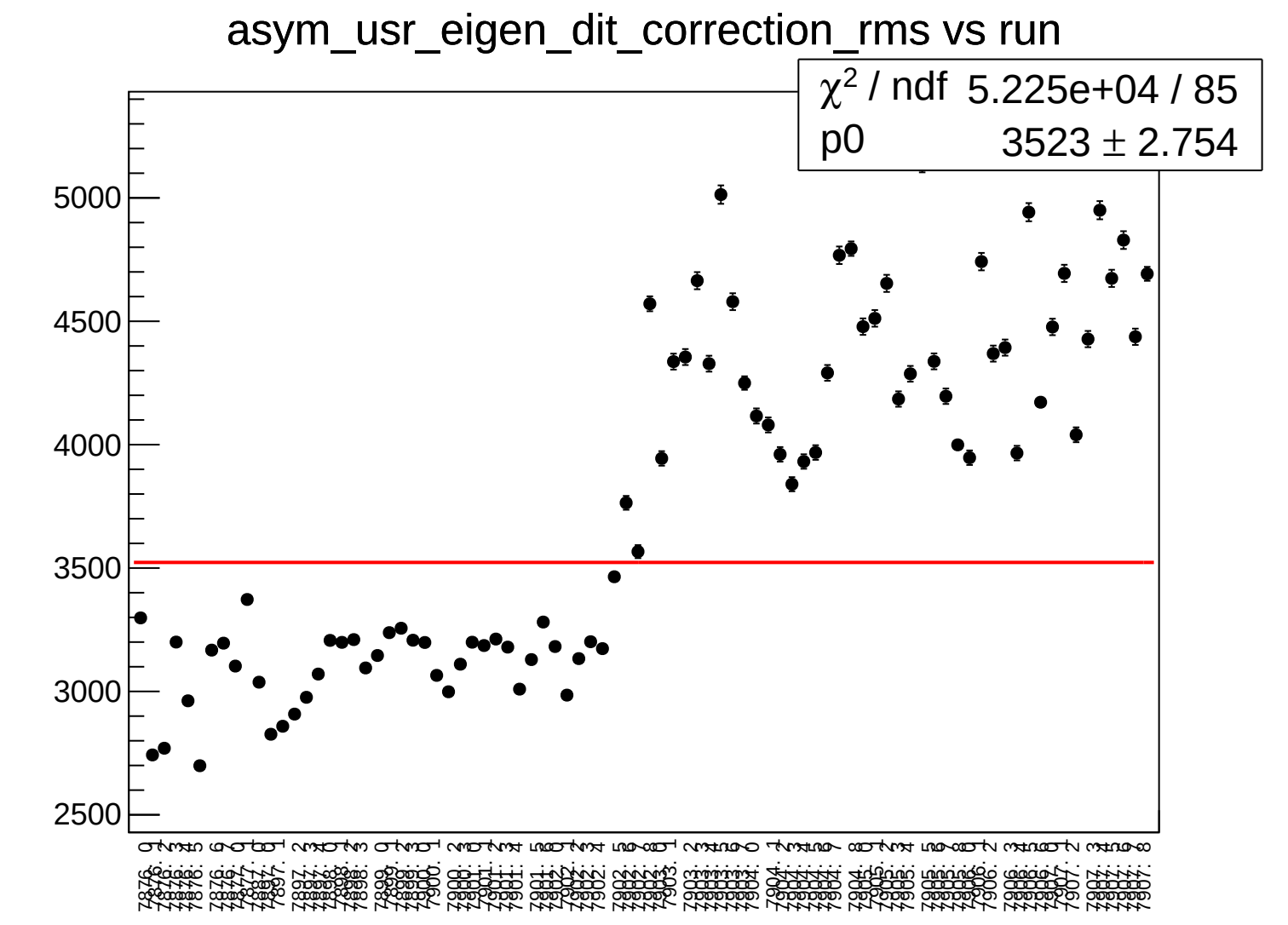

eigen_dit_asym_usr_mean vs run
χ² / ndf 90.74 / 85
p0 1415 ± 1210
pull
Entries 86
Mean −458.7
Std Dev 0

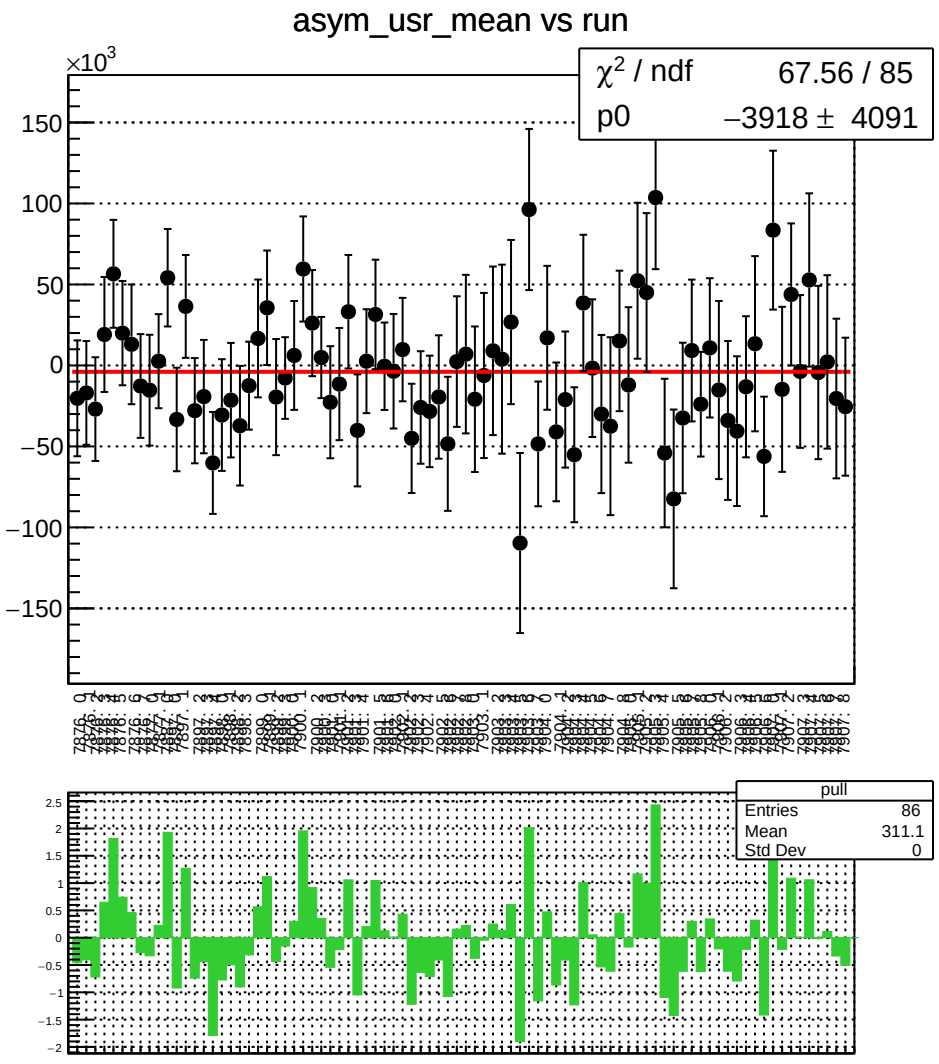

pull1D
Entries 86
Mean 0.003981
Std Dev 1.027

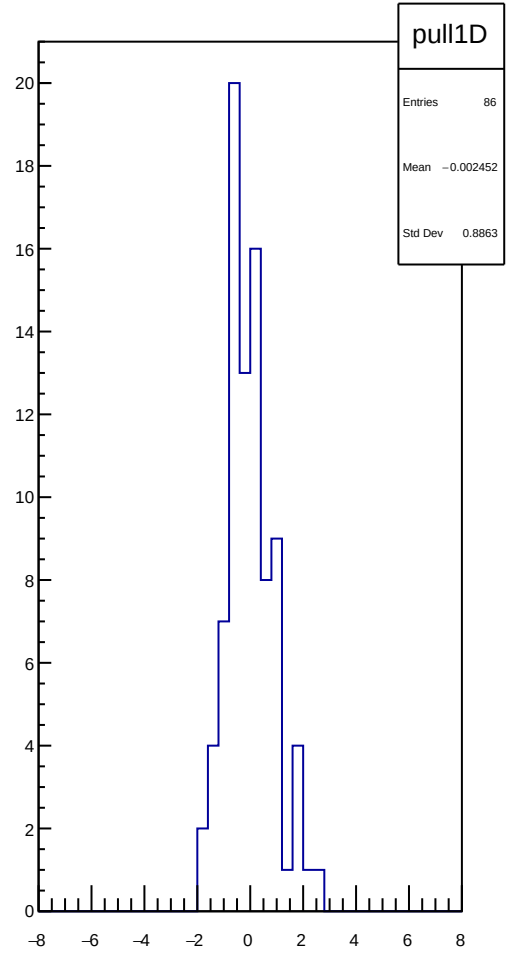

eigen_dit_asym_usr_rms vs run
χ² / ndf 1814 / 85
p0 1111 ± 0.8554
1350
1300
1250
1200
1150
1100
1050

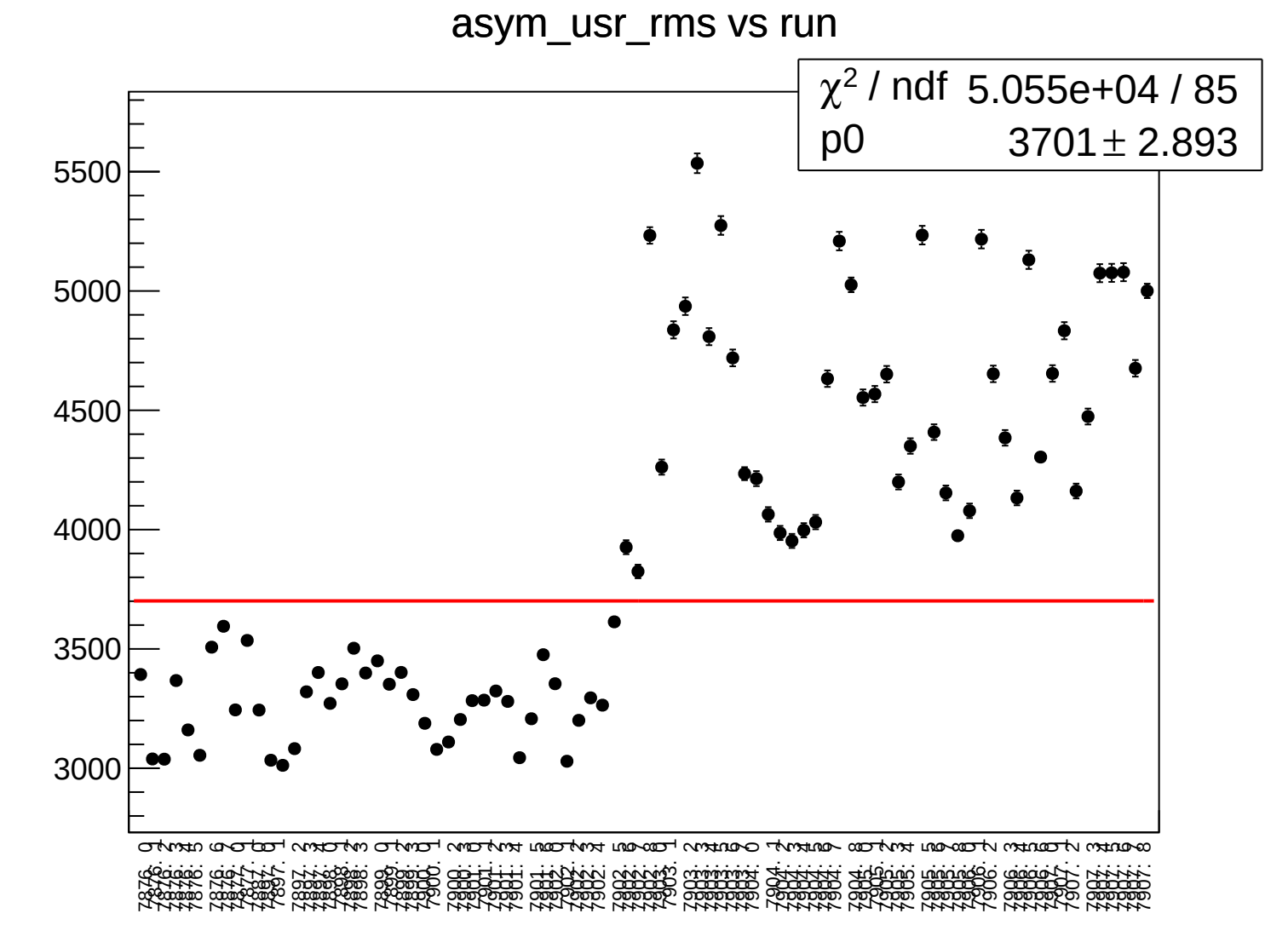

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 71.49 / 85
p0 5822 ± 3895
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 10.85
Std Dev 98.68
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

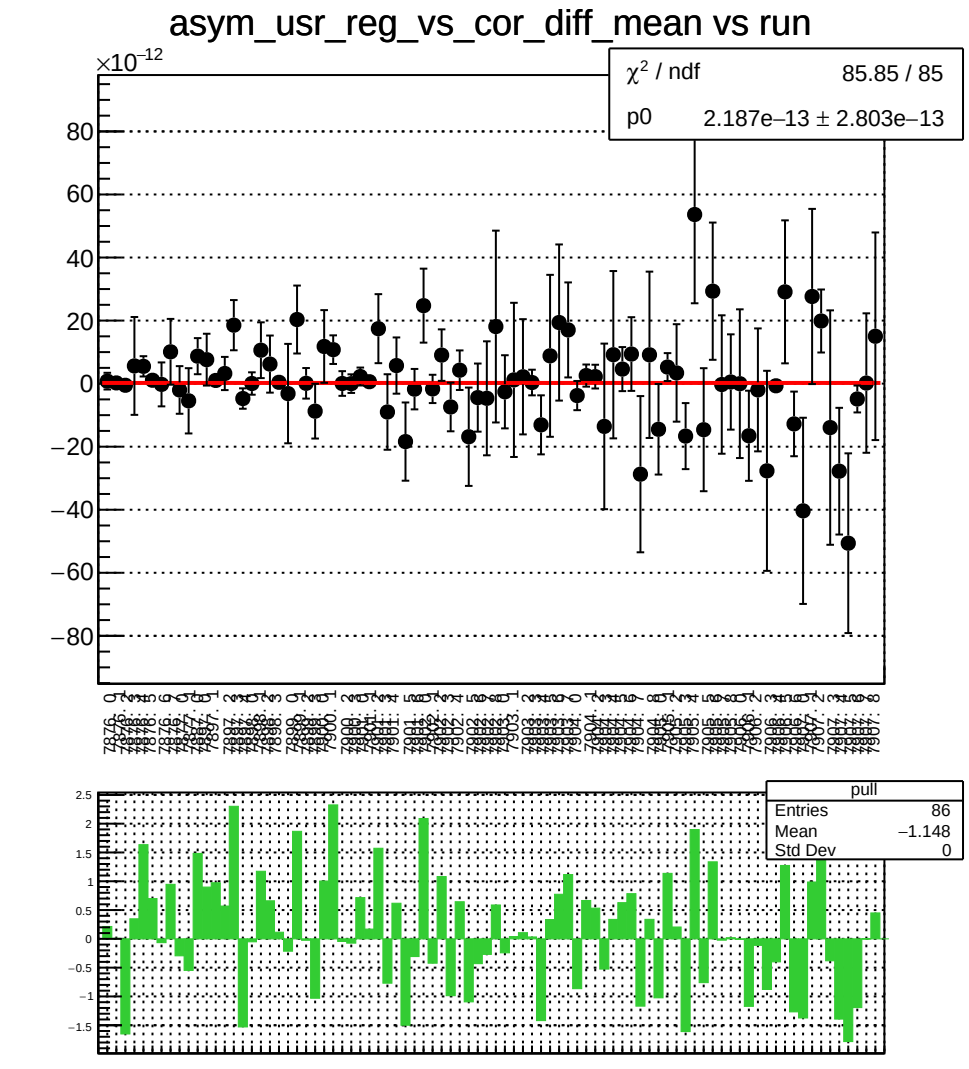

pull1D
Entries 86
Mean −0.00297
Std Dev 0.9117
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

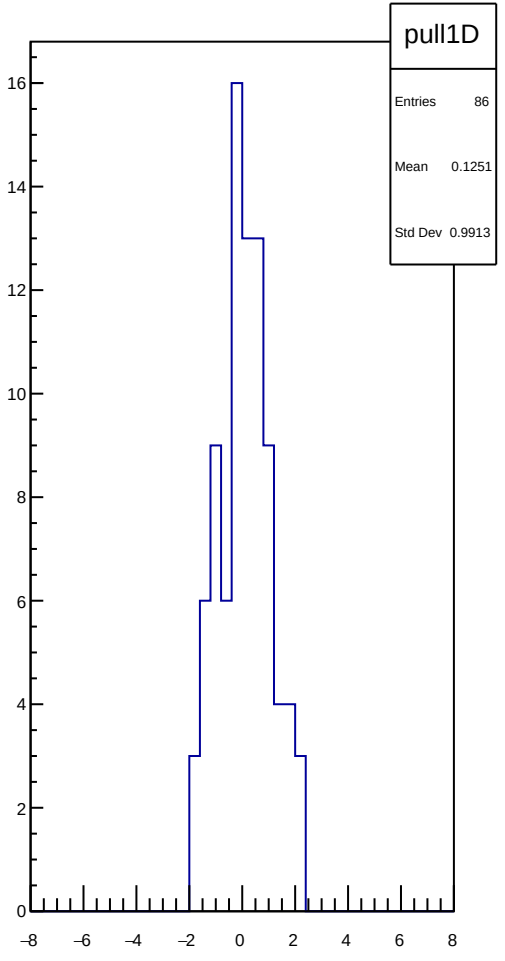

asym_usr_eigen_dit_correction_rms vs run
χ^2 / ndf 5.225e+04 / 85
p0 3523 ± 2.754
5000
4500
4000
3500
3000
2500

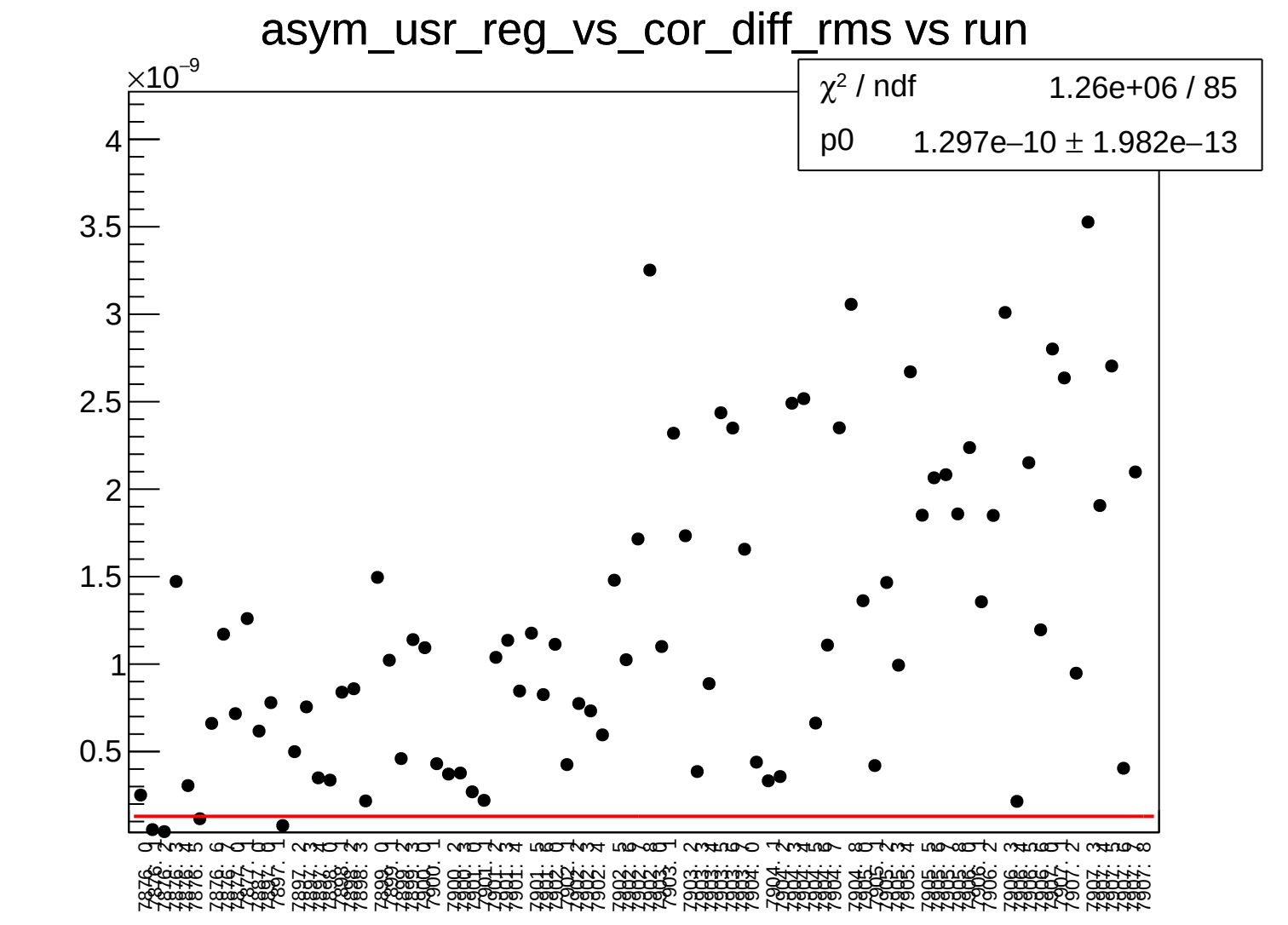

asym_usr_mean vs run
×10^3
χ² / ndf 67.56 / 85
p0 −3918 ± 4091
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 311.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

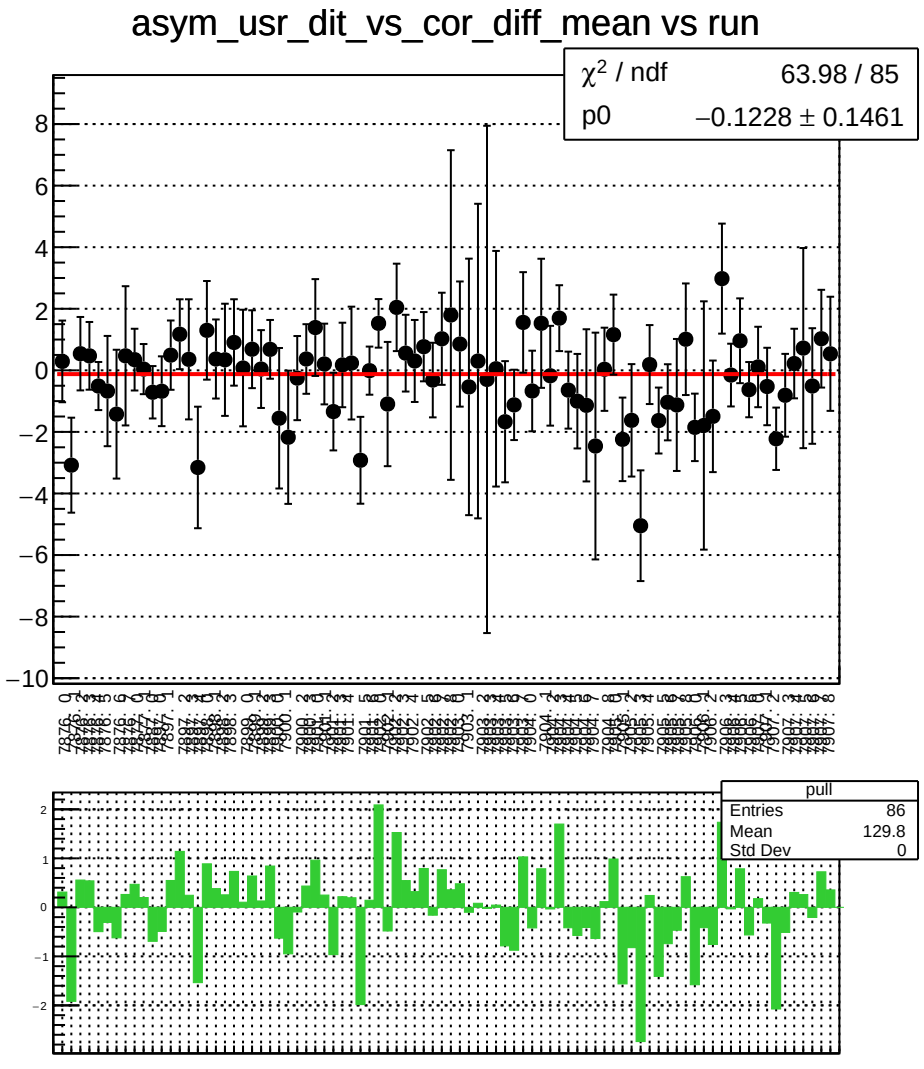

pull1D
Entries 86
Mean −0.002452
Std Dev 0.8863
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

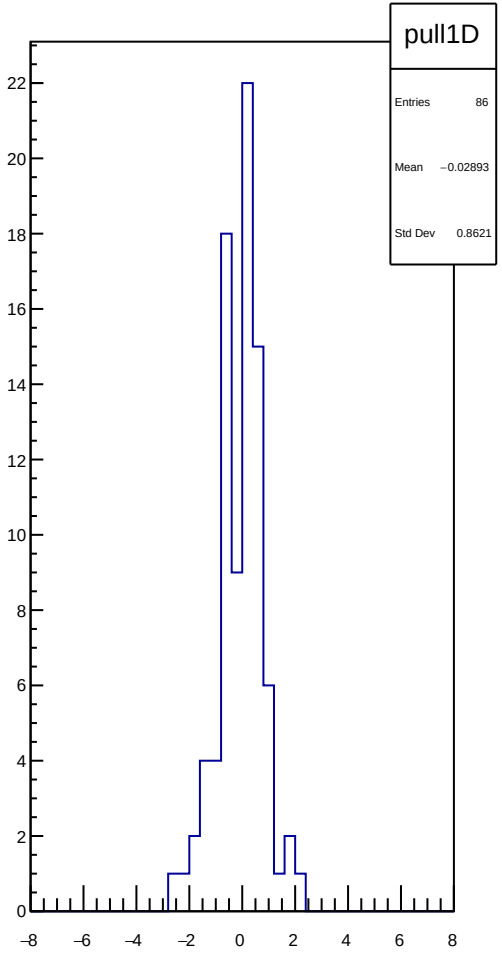

asym_usr_rms vs run
χ² / ndf 5.055e+04 / 85
p0 3701 ± 2.893
5500
5000
4500
4000
3500
3000

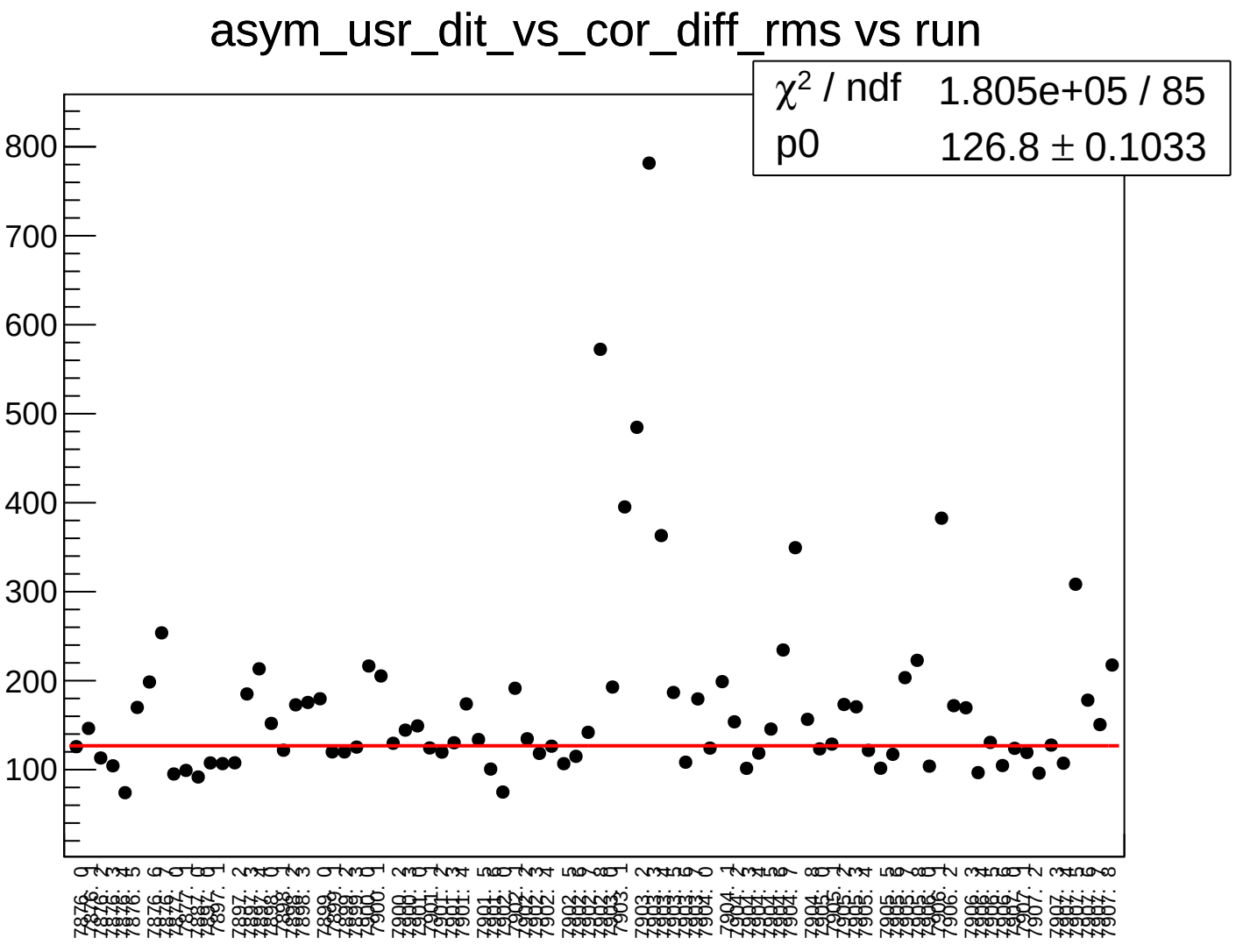

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.85 / 85
p0 2.187e−13 ± 2.803e−13
pull
Entries 86
Mean −1.148
Std Dev 0

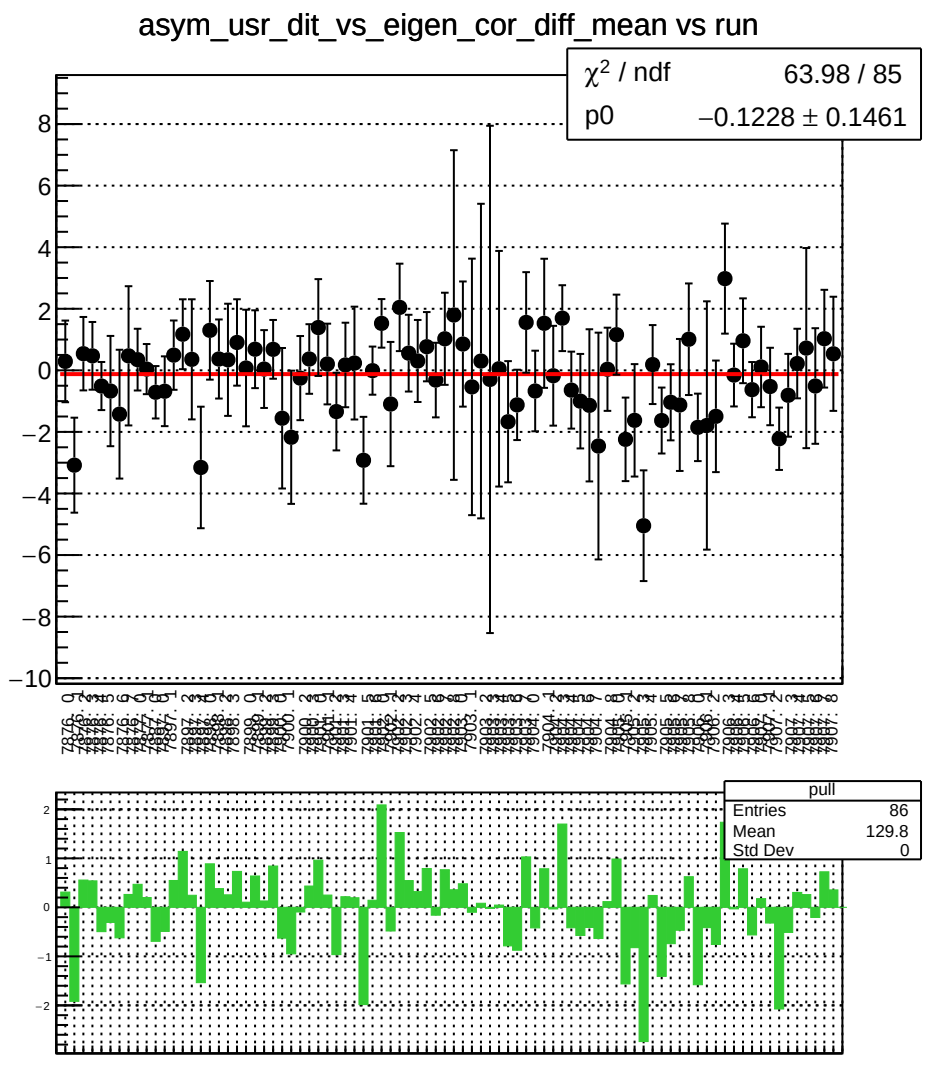

pull1D
Entries 86
Mean 0.1251
Std Dev 0.9913

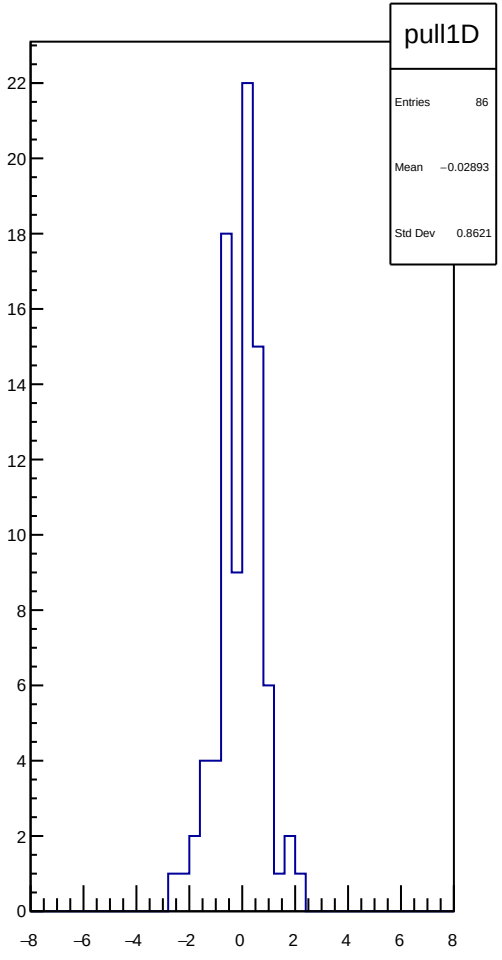

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.26e+06 / 85
p0 1.297e−10 ± 1.982e−13
4
3.5
3
2.5
2
1.5
1
0.5

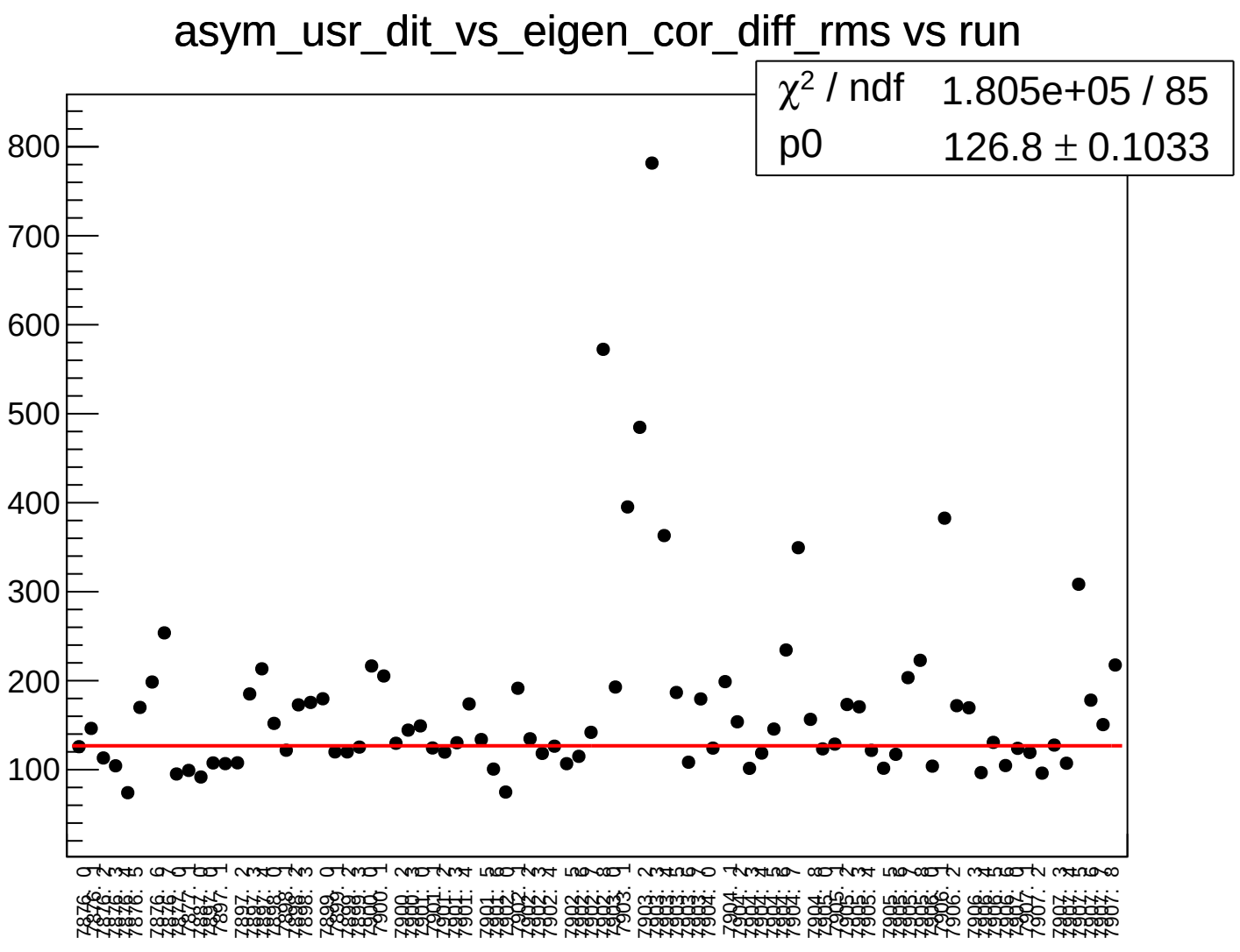

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 63.98 / 85
p0 −0.1228 ± 0.1461
pull
Entries 86
Mean 129.8
Std Dev 0

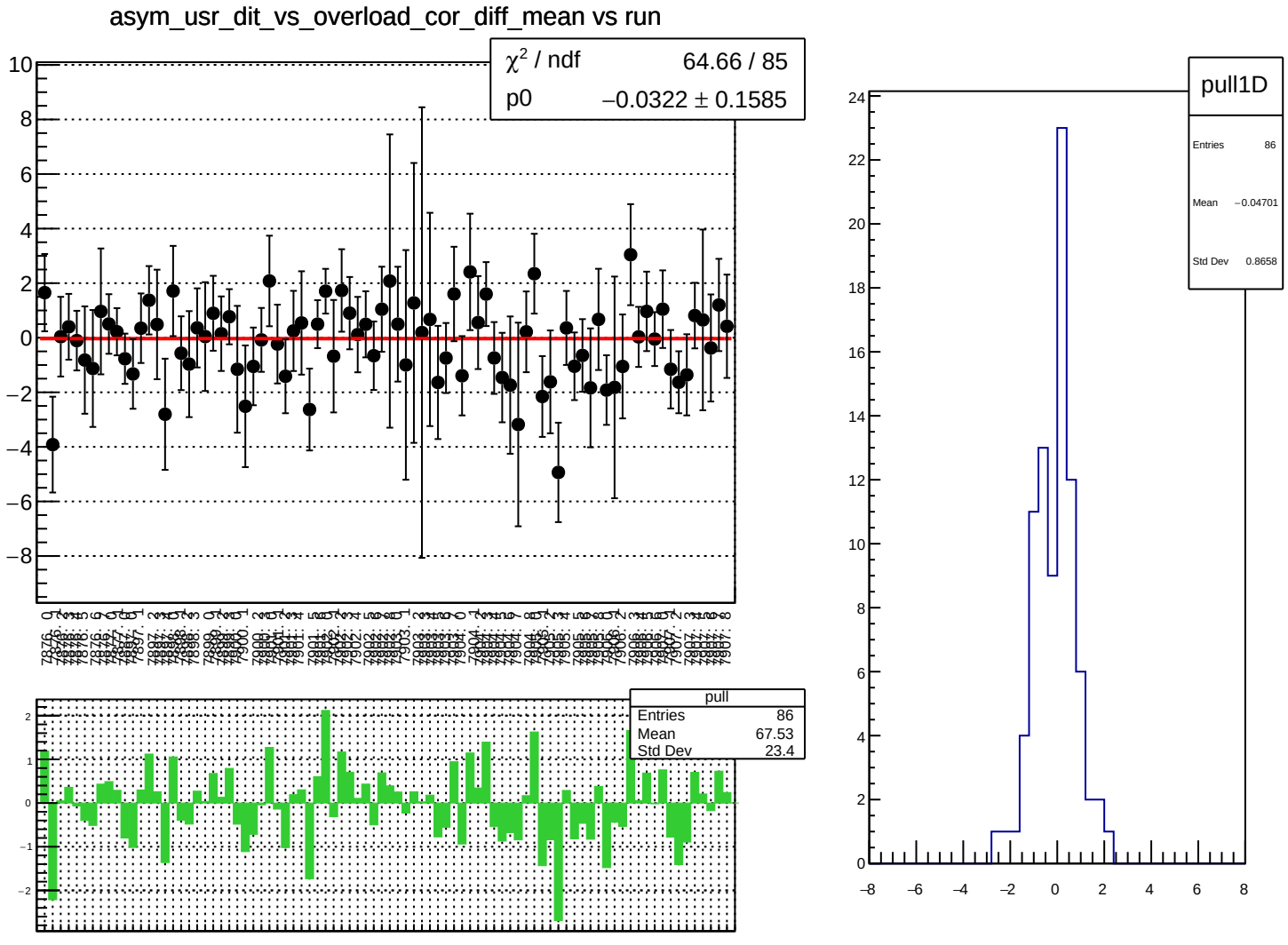

pull1D
Entries 86
Mean −0.02893
Std Dev 0.8621

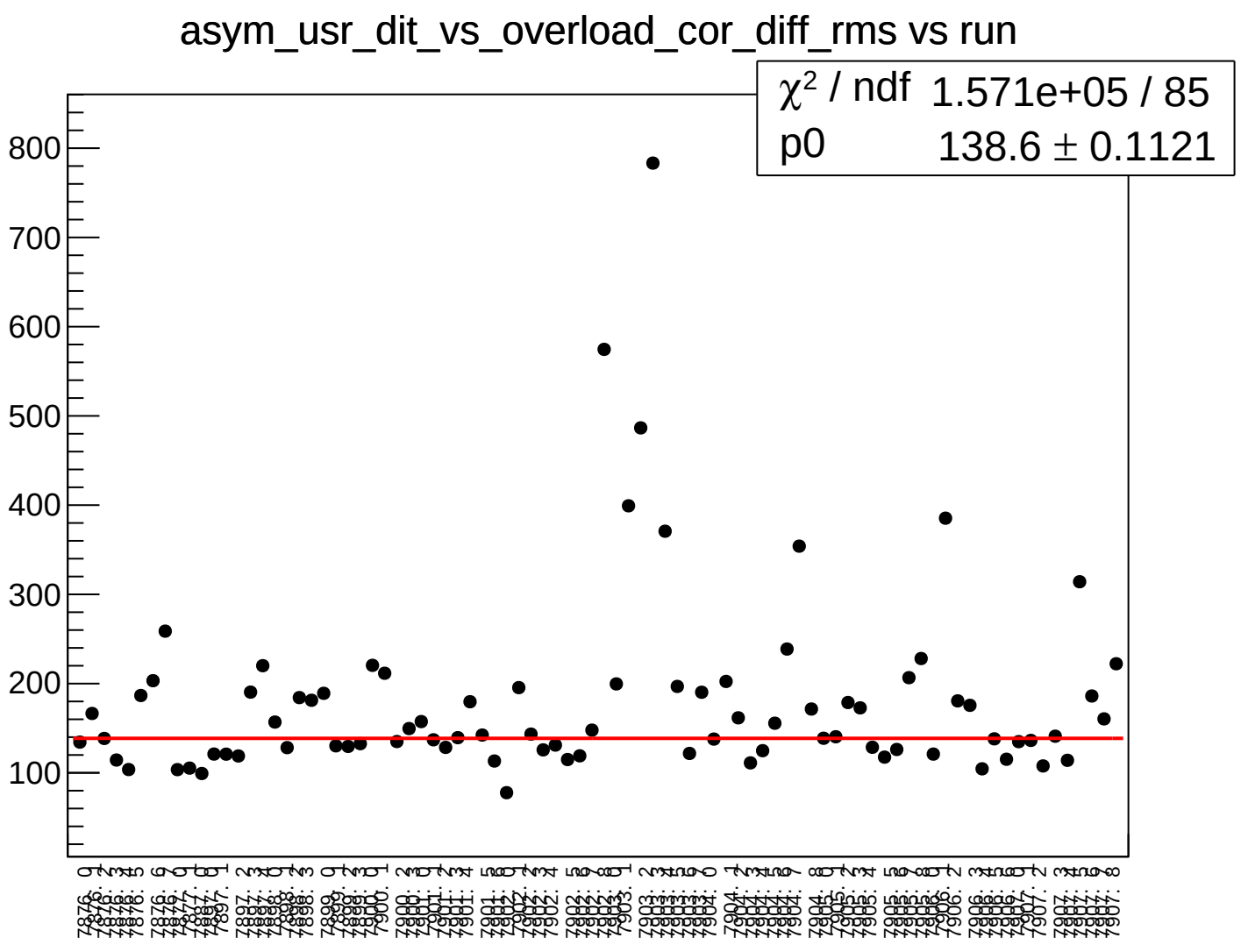

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.805e+05 / 85
p0 126.8 ± 0.1033
800
700
600
500
400
300
200
100

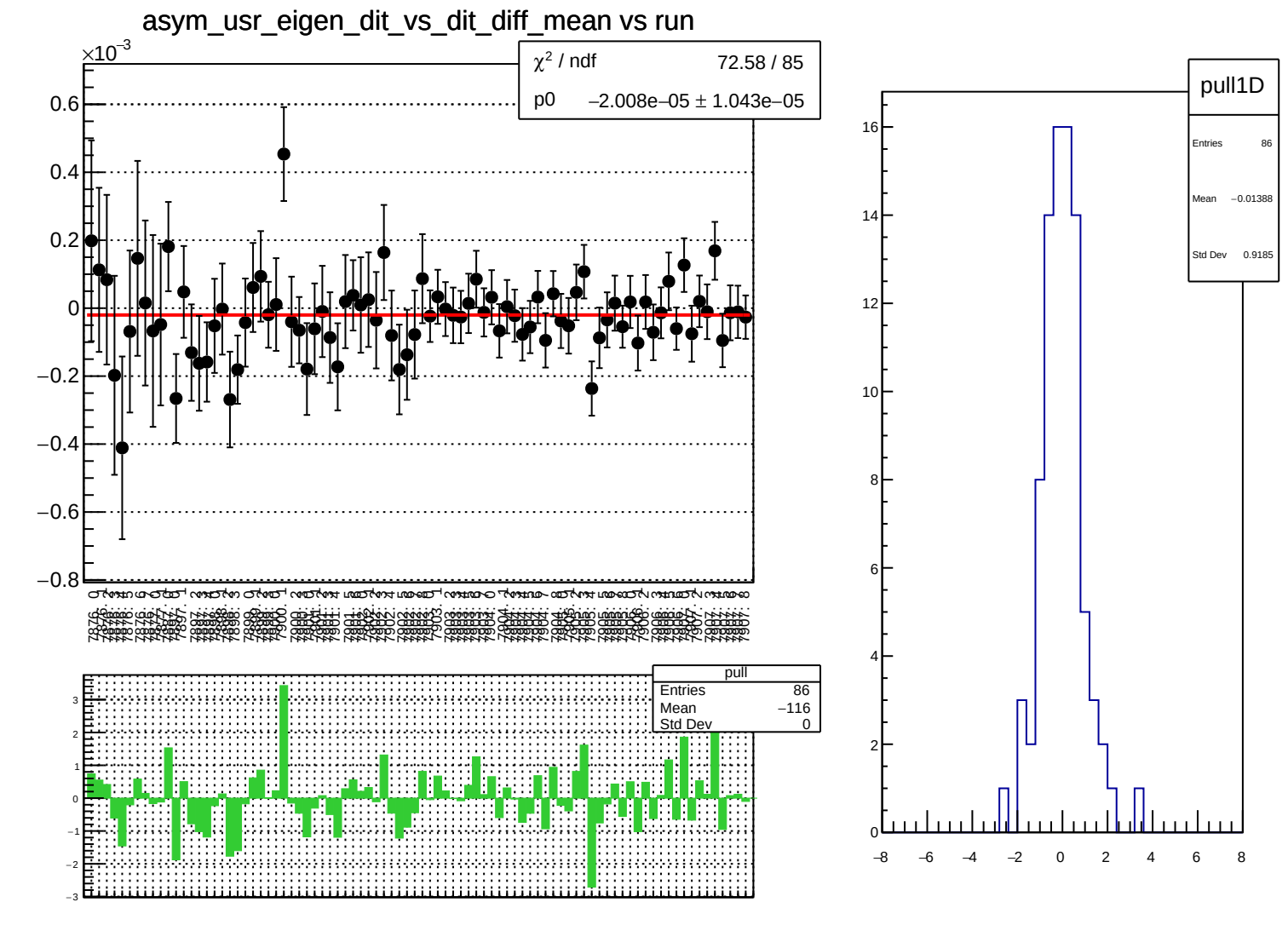

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.98 / 85
p0 −0.1228 ± 0.1461
pull
Entries 86
Mean 129.8
Std Dev 0

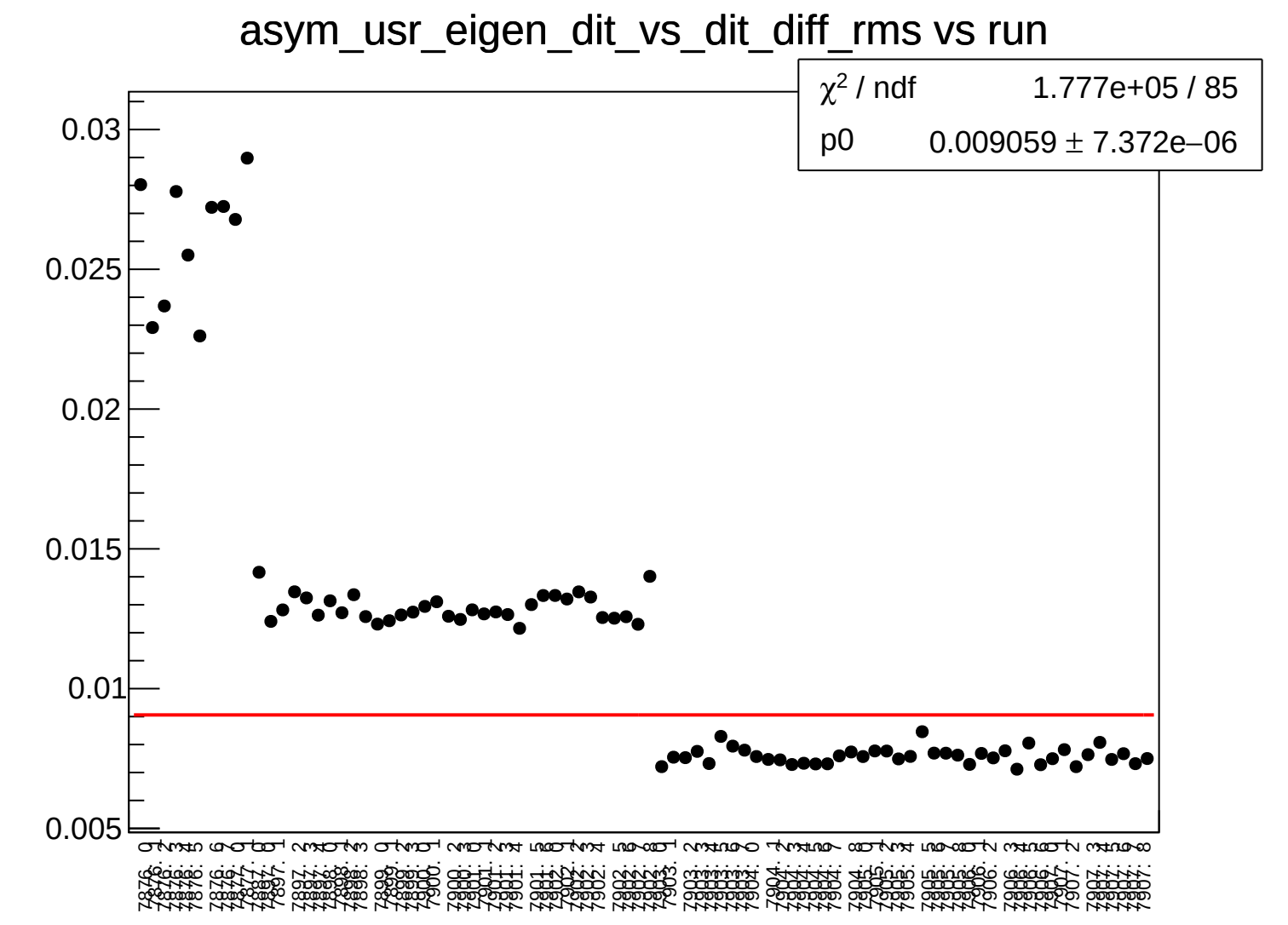

pull1D
Entries 86
Mean −0.02893
Std Dev 0.8621

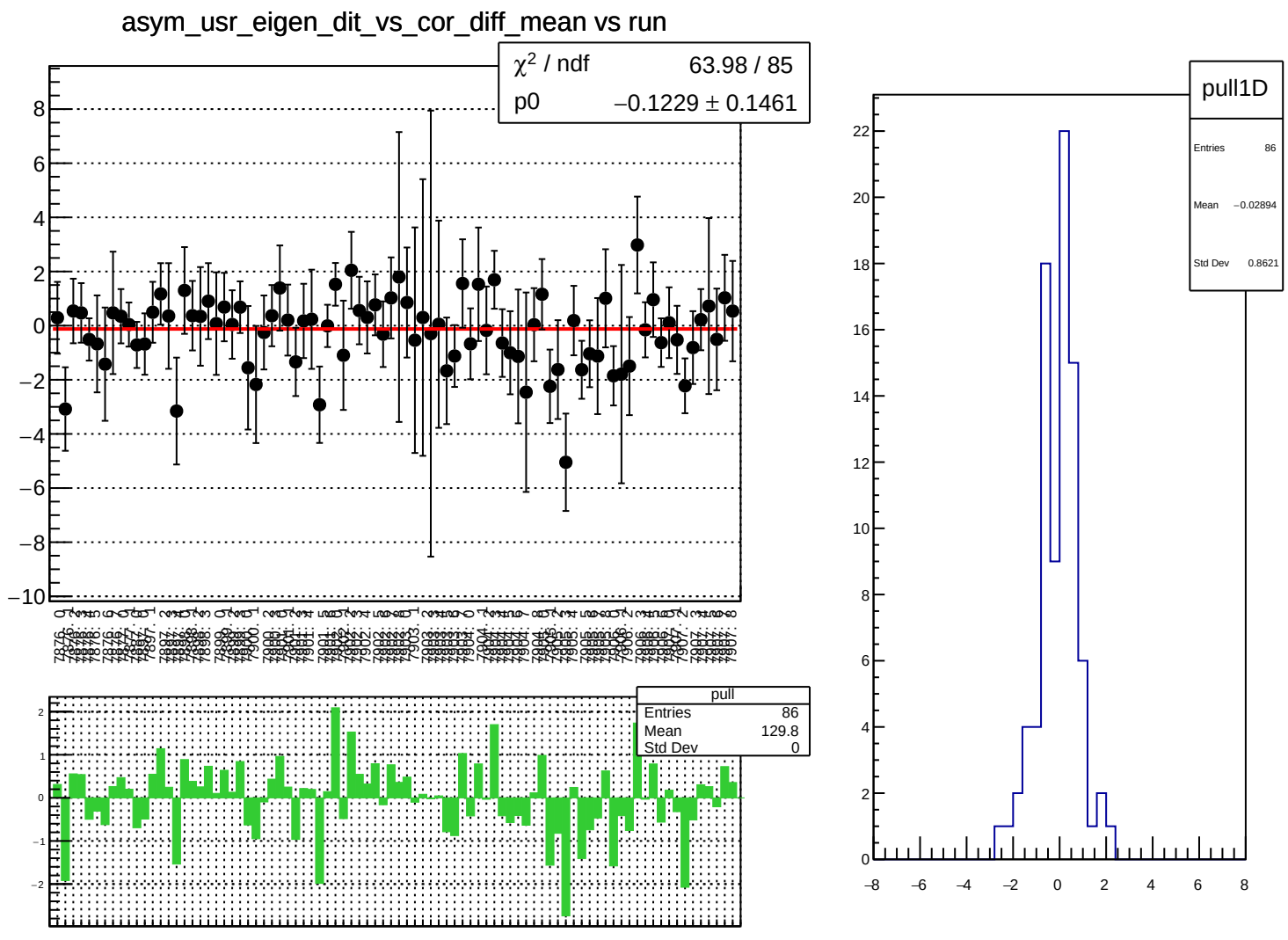

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.805e+05 / 85
p0 126.8 ± 0.1033
800
700
600
500
400
300
200
100

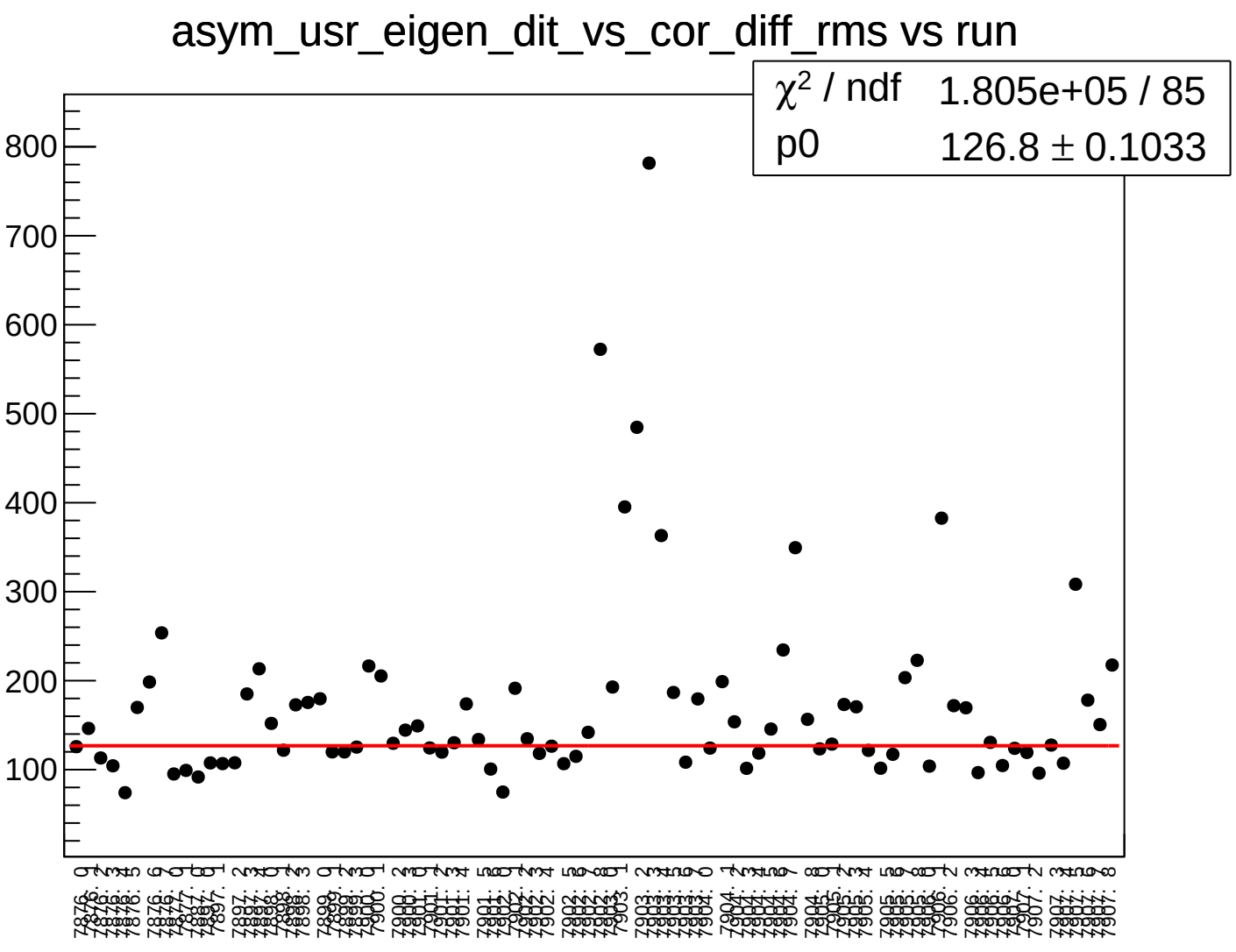

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 64.66 / 85
p0 −0.0322 ± 0.1585
pull
Entries 86
Mean 67.53
Std Dev 23.4
pull1D
Entries 86
Mean −0.04701
Std Dev 0.8658

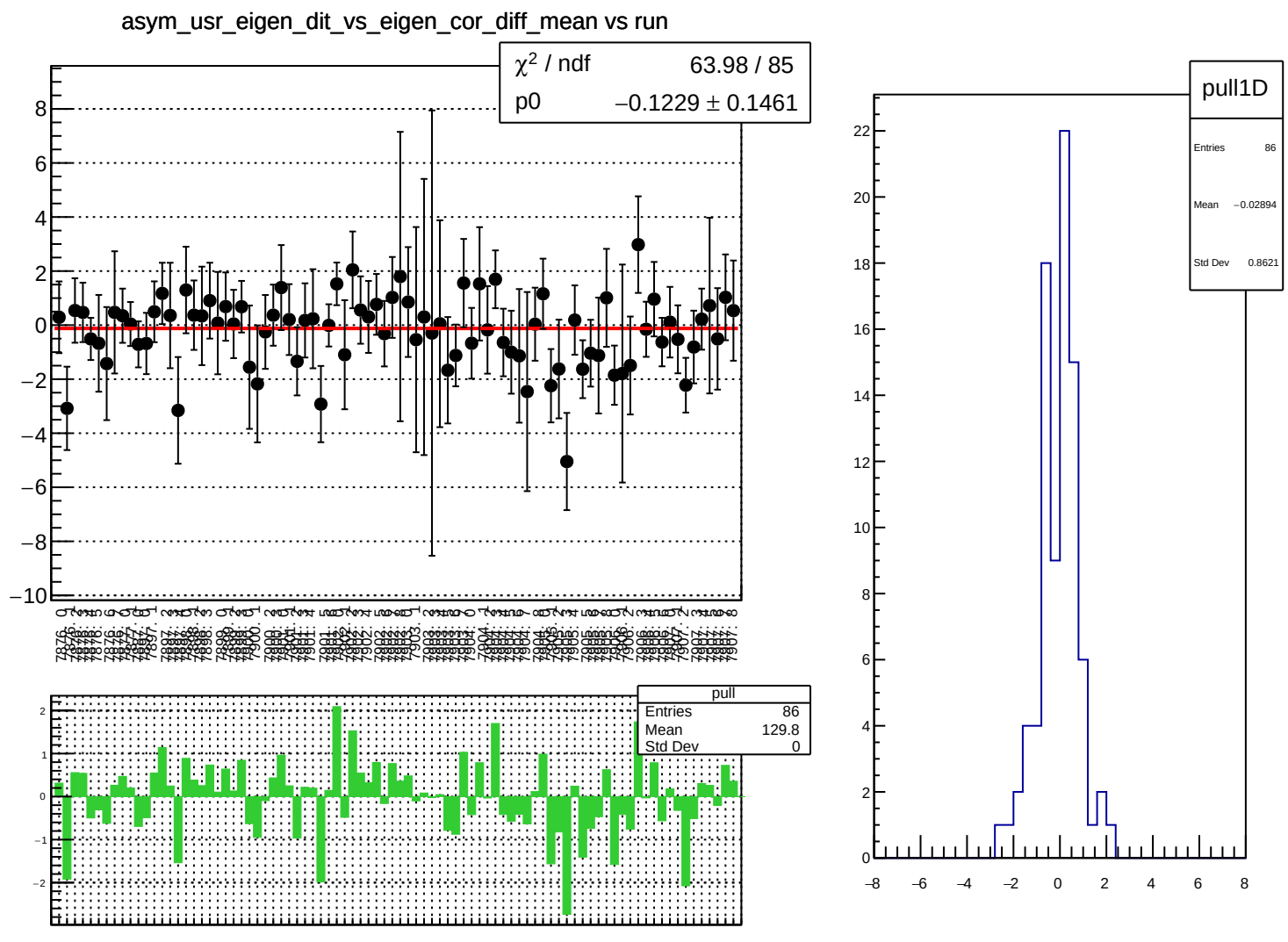

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.571e+05 / 85
p0 138.6 ± 0.1121
800
700
600
500
400
300
200
100

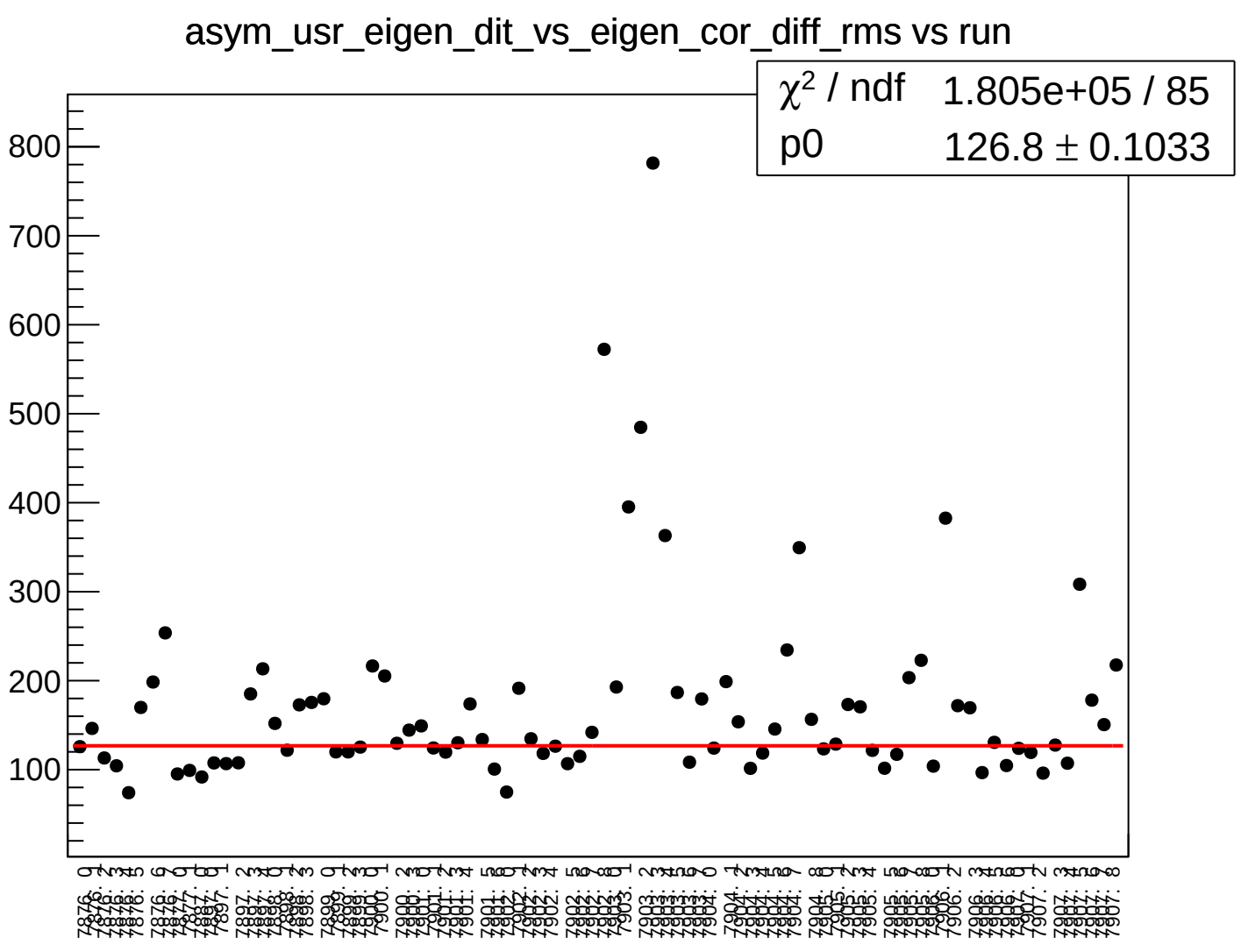

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.58 / 85
p0 −2.008e−05 ± 1.043e−05
pull
Entries 86
Mean −116
Std Dev 0
pull1D
Entries 86
Mean −0.01388
Std Dev 0.9185

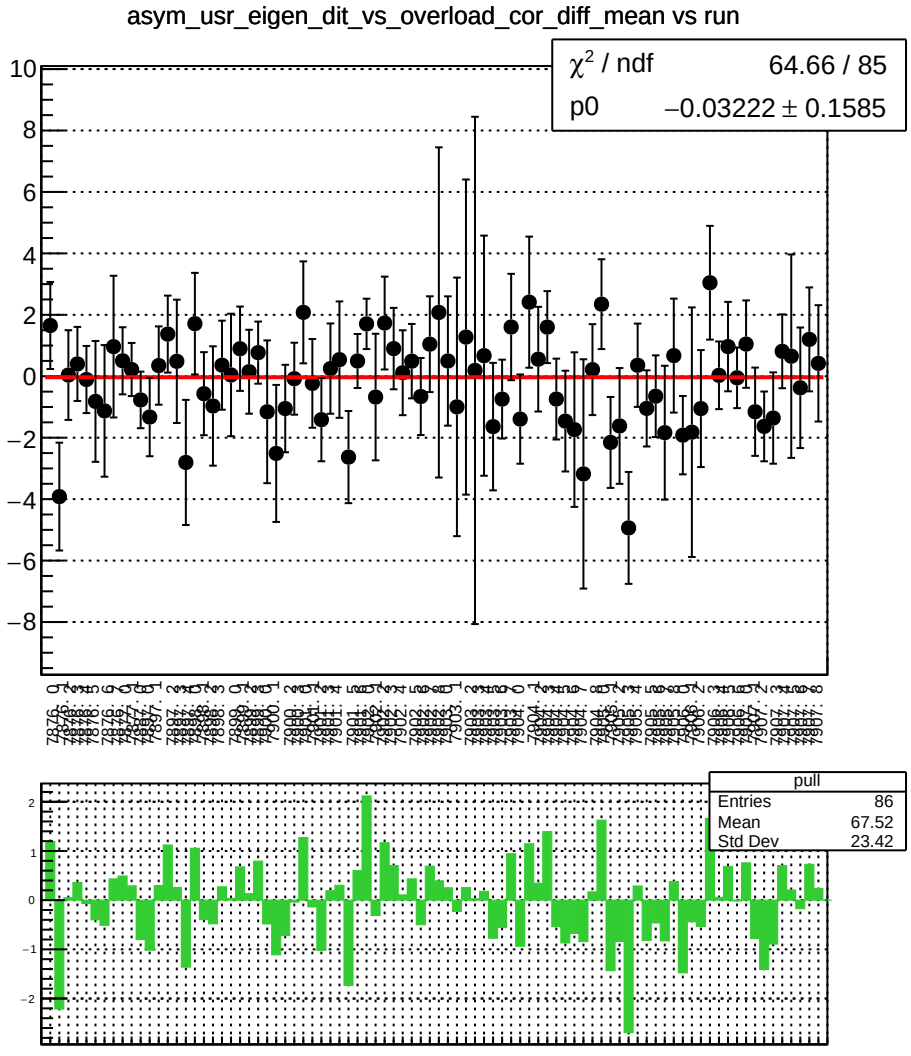

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.777e+05 / 85
p0 0.009059 ± 7.372e−06
0.03
0.025
0.02
0.015
0.01
0.005

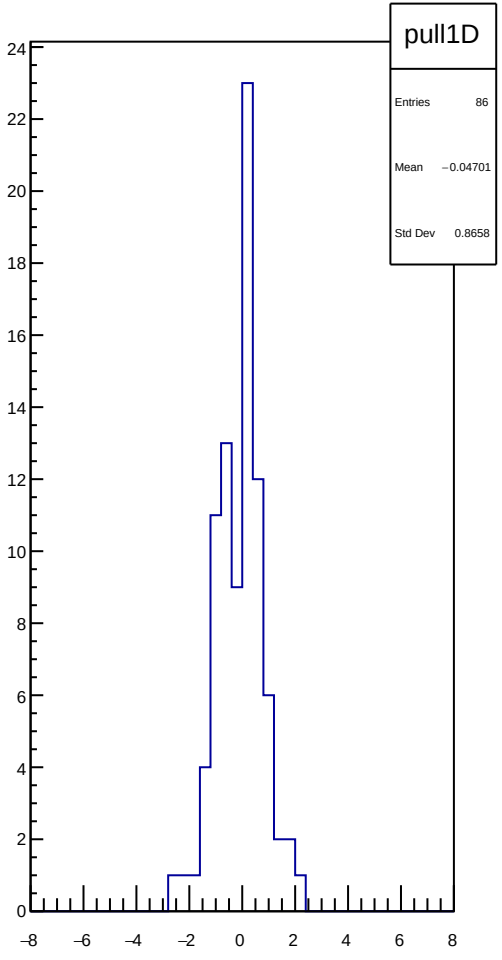

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.98 / 85
p0 −0.1229 ± 0.1461
pull
Entries 86
Mean 129.8
Std Dev 0
pull1D
Entries 86
Mean −0.02894
Std Dev 0.8621

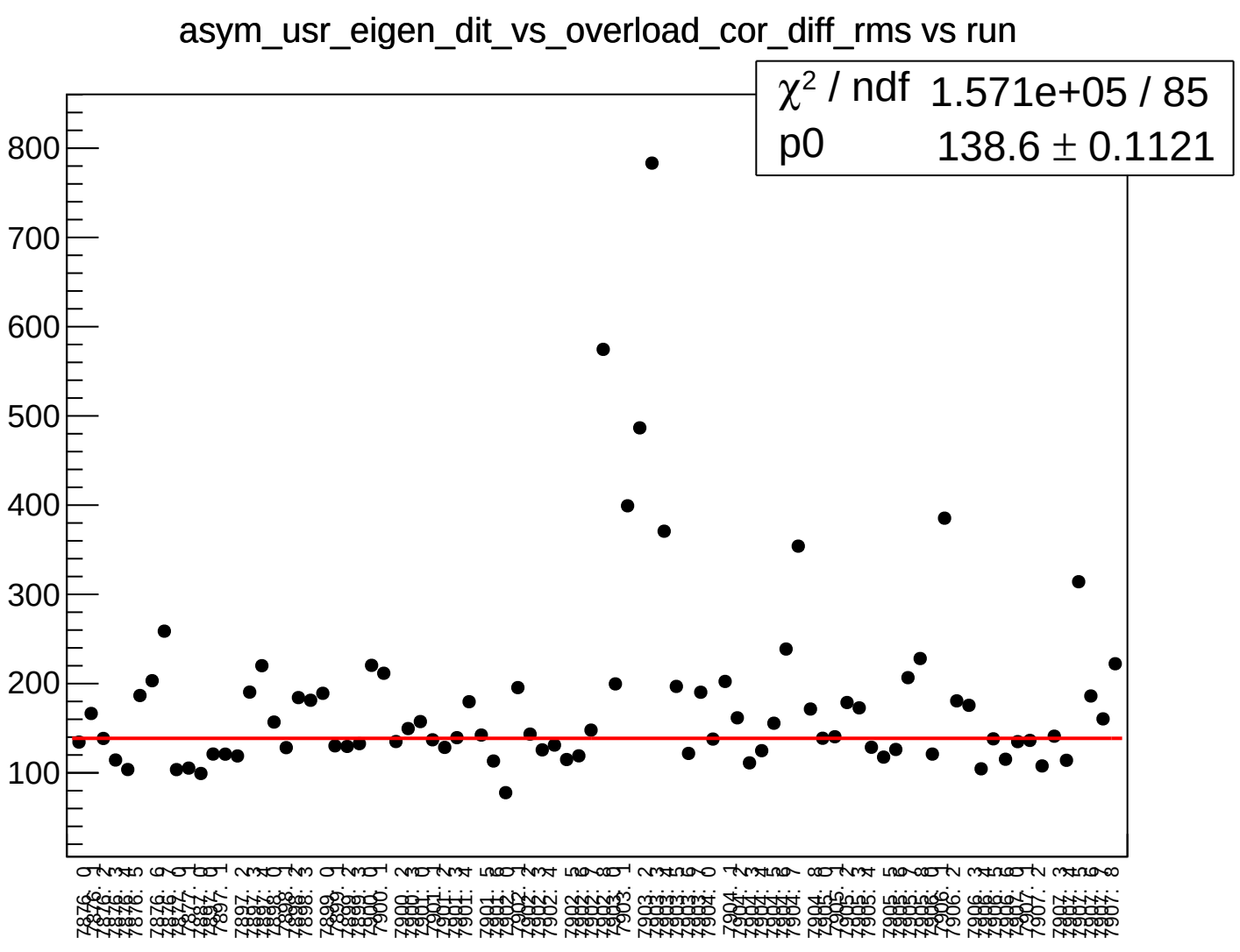

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.805e+05 / 85
p0 126.8 ± 0.1033
800
700
600
500
400
300
200
100

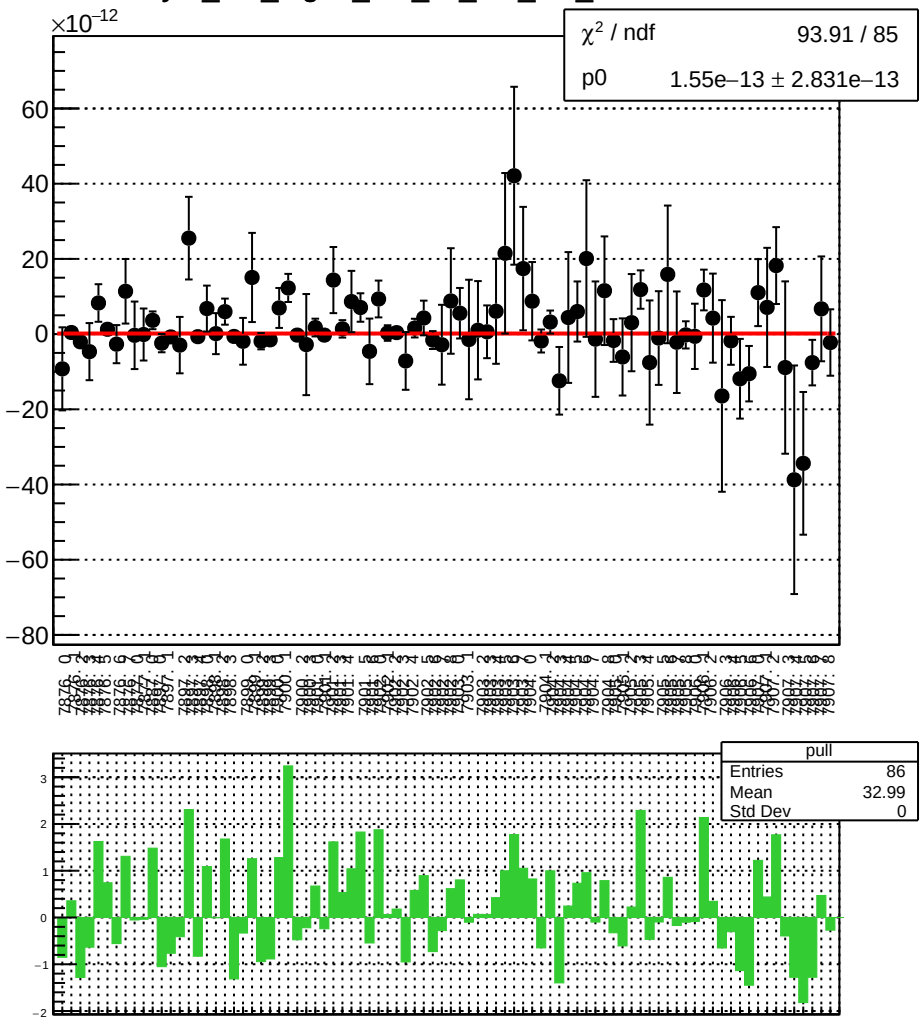

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.98 / 85
p0 −0.1229 ± 0.1461
pull
Entries 86
Mean 129.8
Std Dev 0
pull1D
Entries 86
Mean −0.02894
Std Dev 0.8621

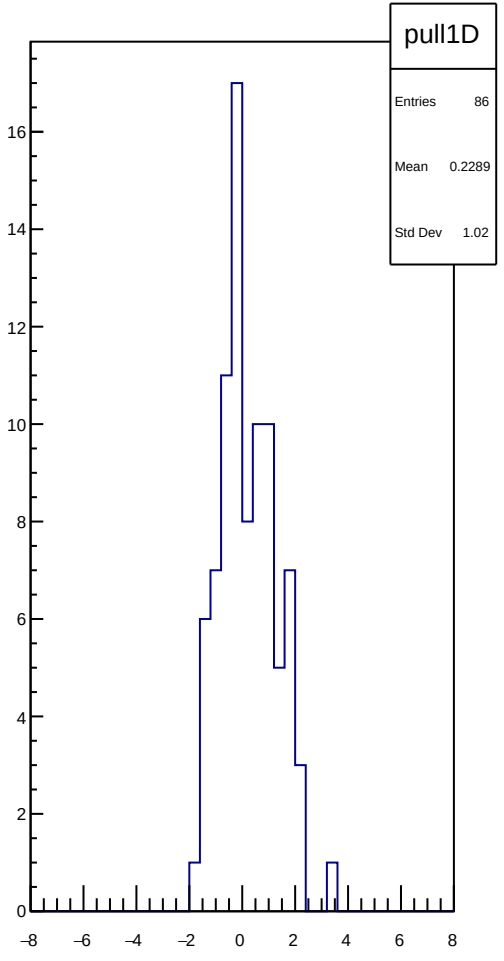

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.805e+05 / 85
p0 126.8 ± 0.1033
800
700
600
500
400
300
200
100

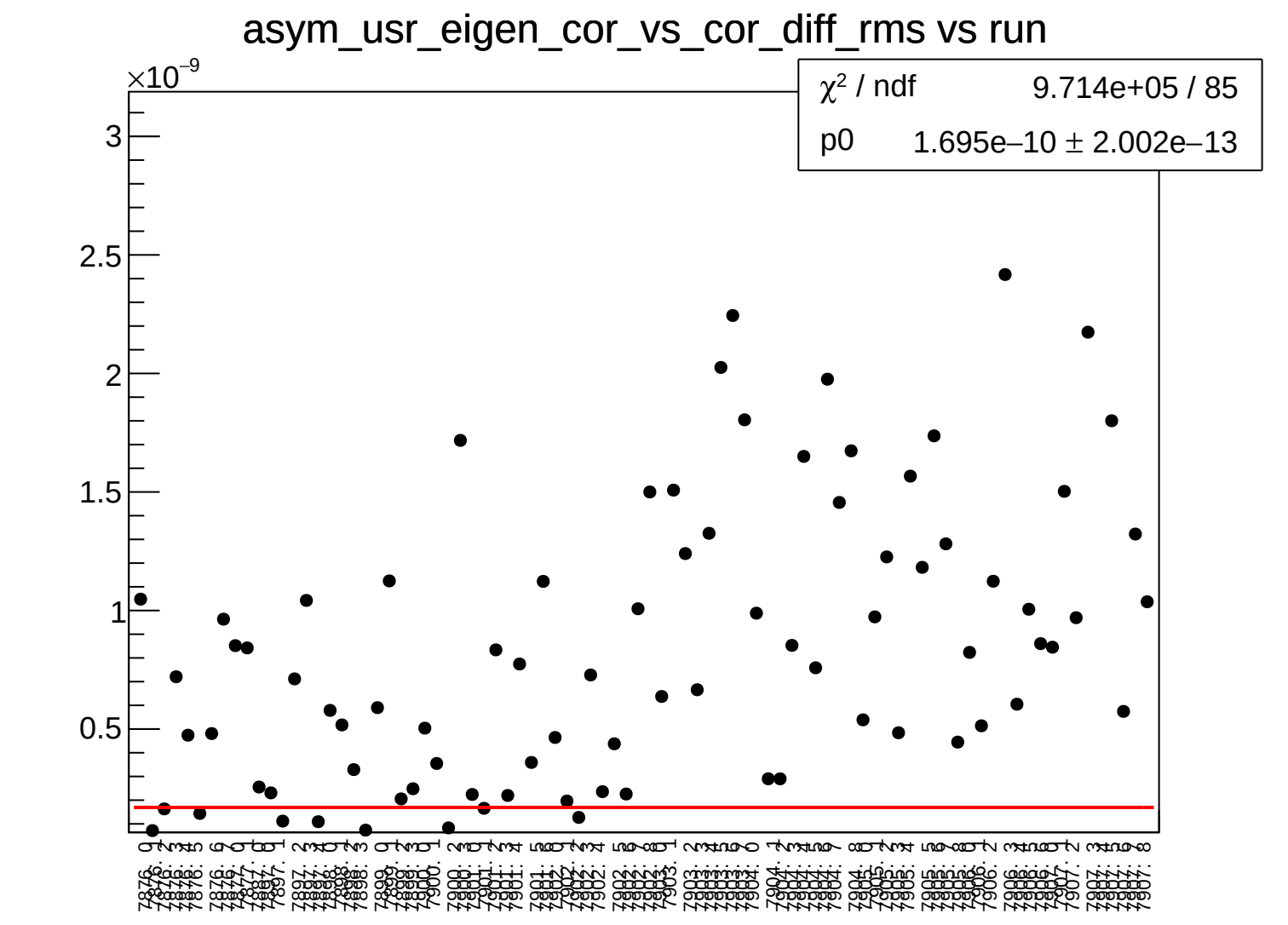

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 64.66 / 85
p0 −0.03222 ± 0.1585
pull
Entries 86
Mean 67.52
Std Dev 23.42

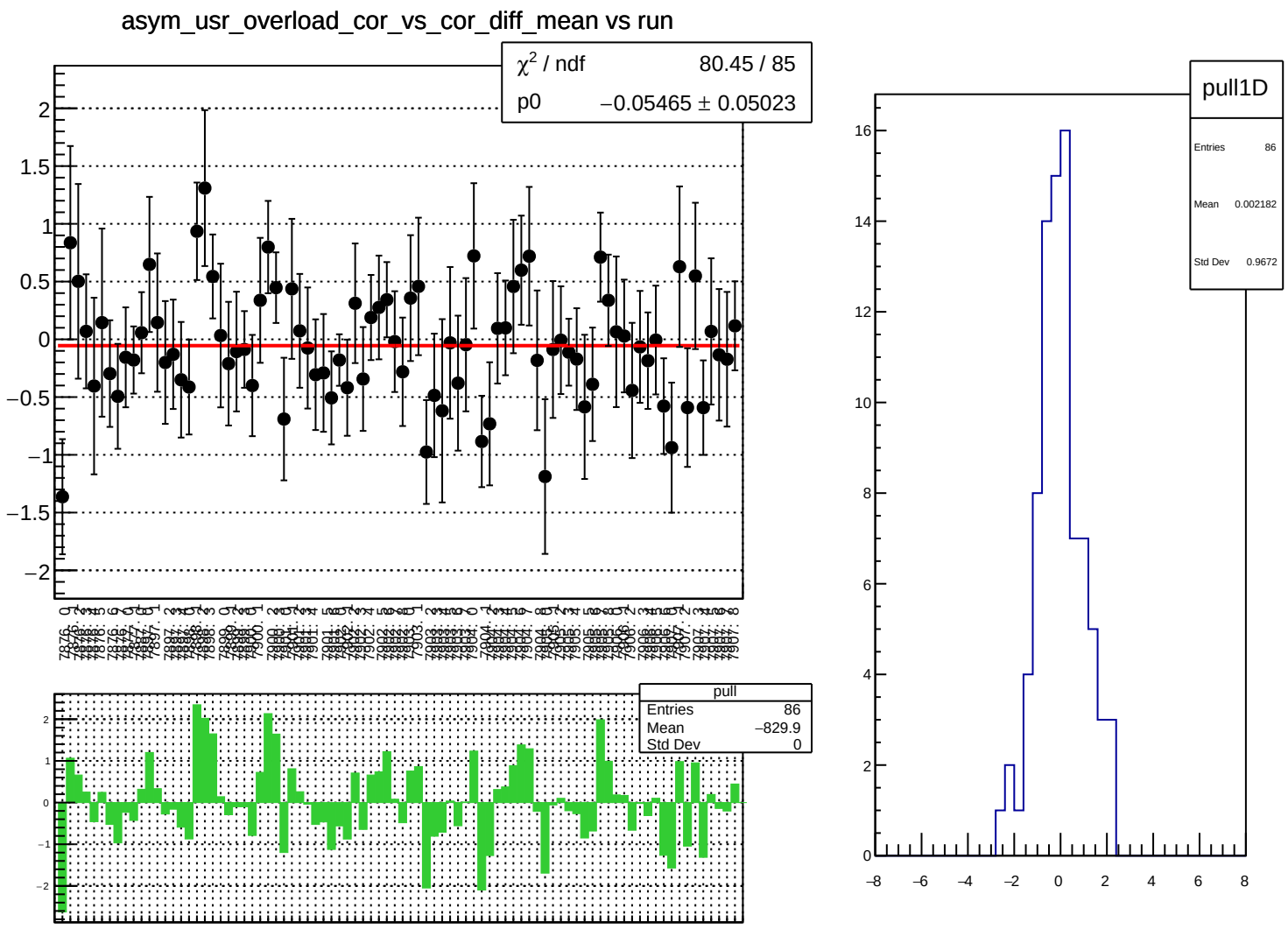

pull1D
Entries 86
Mean −0.04701
Std Dev 0.8658

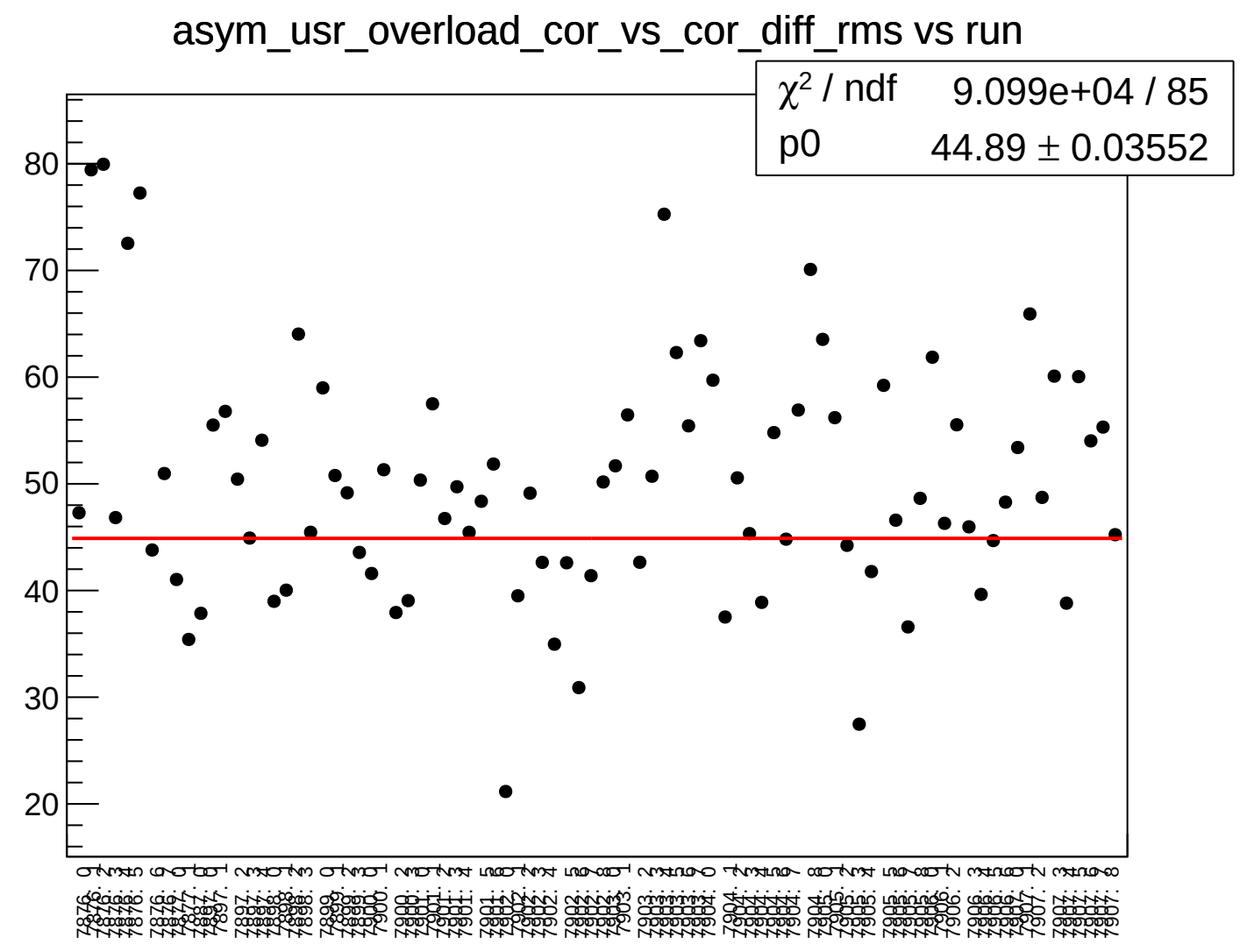

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.571e+05 / 85
p0 138.6 ± 0.1121
800
700
600
500
400
300
200
100

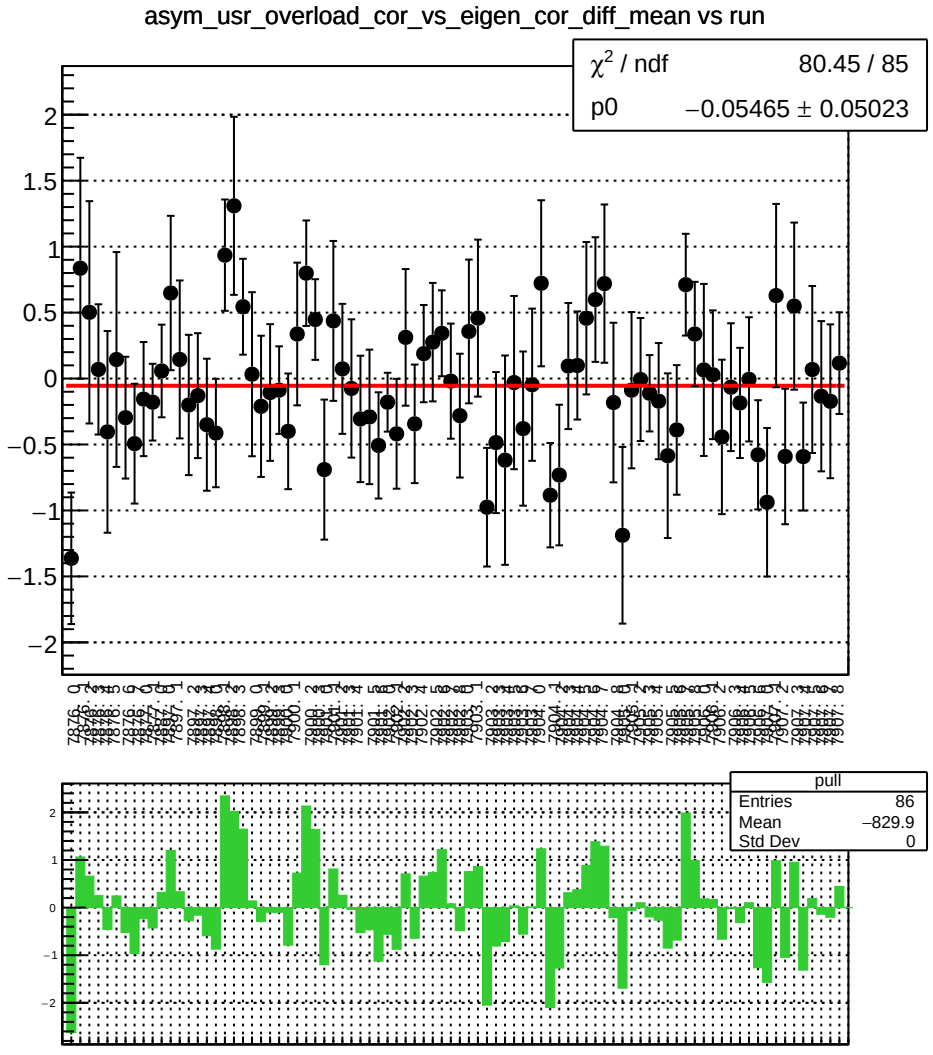

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.91 / 85
p0 1.55e−13 ± 2.831e−13
pull
Entries 86
Mean 32.99
Std Dev 0

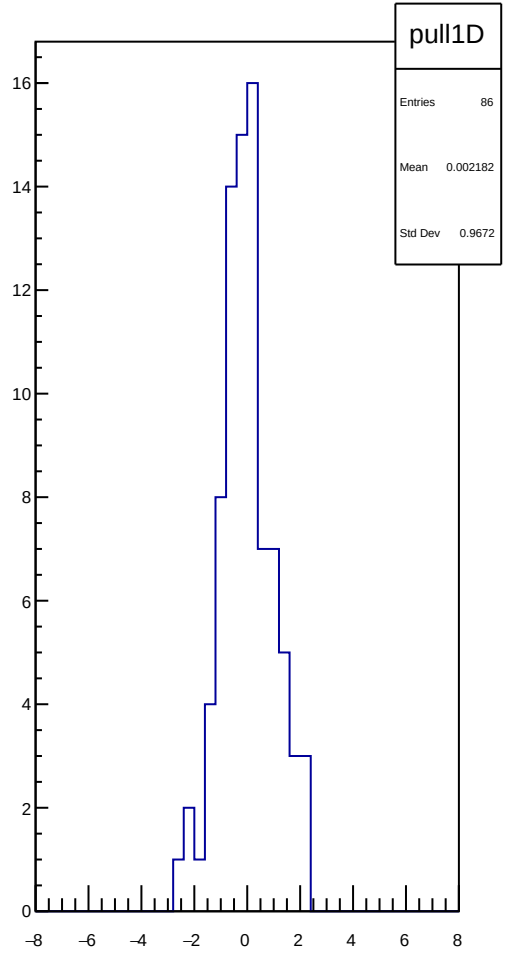

pull1D
Entries 86
Mean 0.2289
Std Dev 1.02

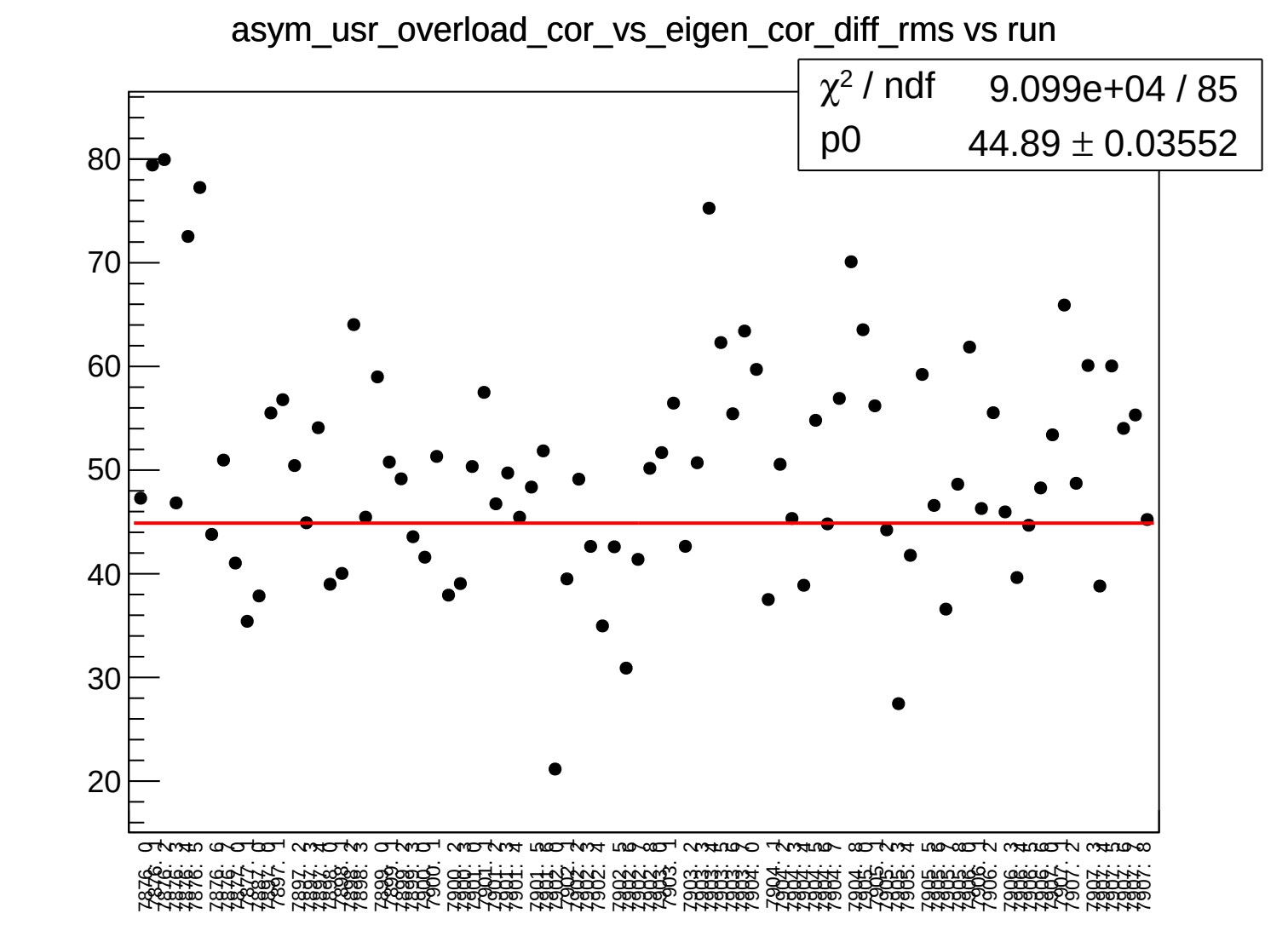

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.714e+05 / 85
p0 1.695e−10 ± 2.002e−13
3
2.5
2
1.5
1
0.5

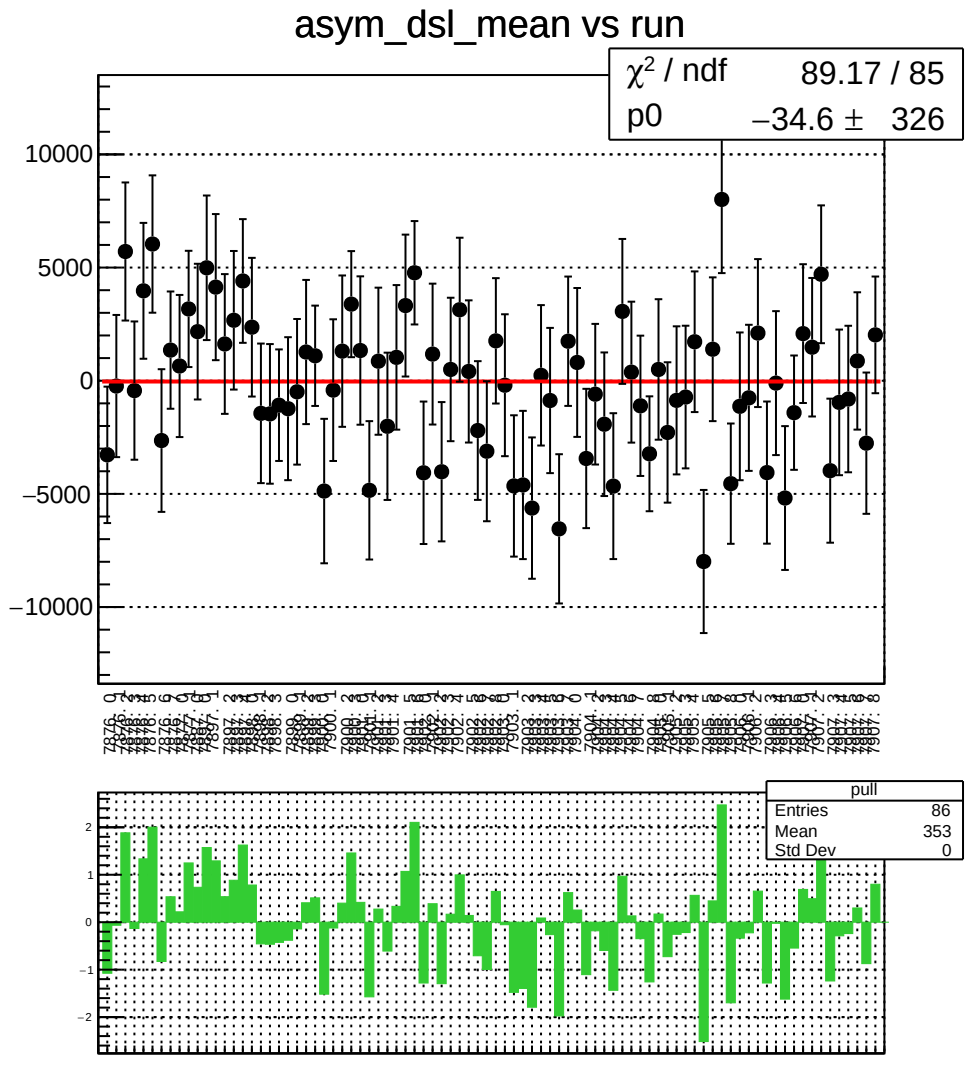

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 80.45 / 85
p0 −0.05465 ± 0.05023
pull
Entries 86
Mean −829.9
Std Dev 0
pull1D
Entries 86
Mean 0.002182
Std Dev 0.9672

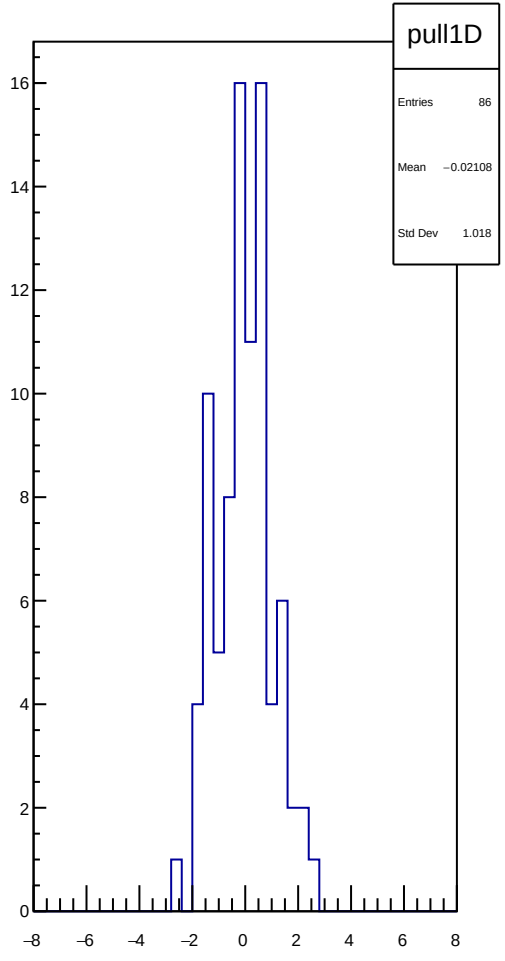

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.099e+04 / 85
p0 44.89 ± 0.03552
80
70
60
50
40
30
20

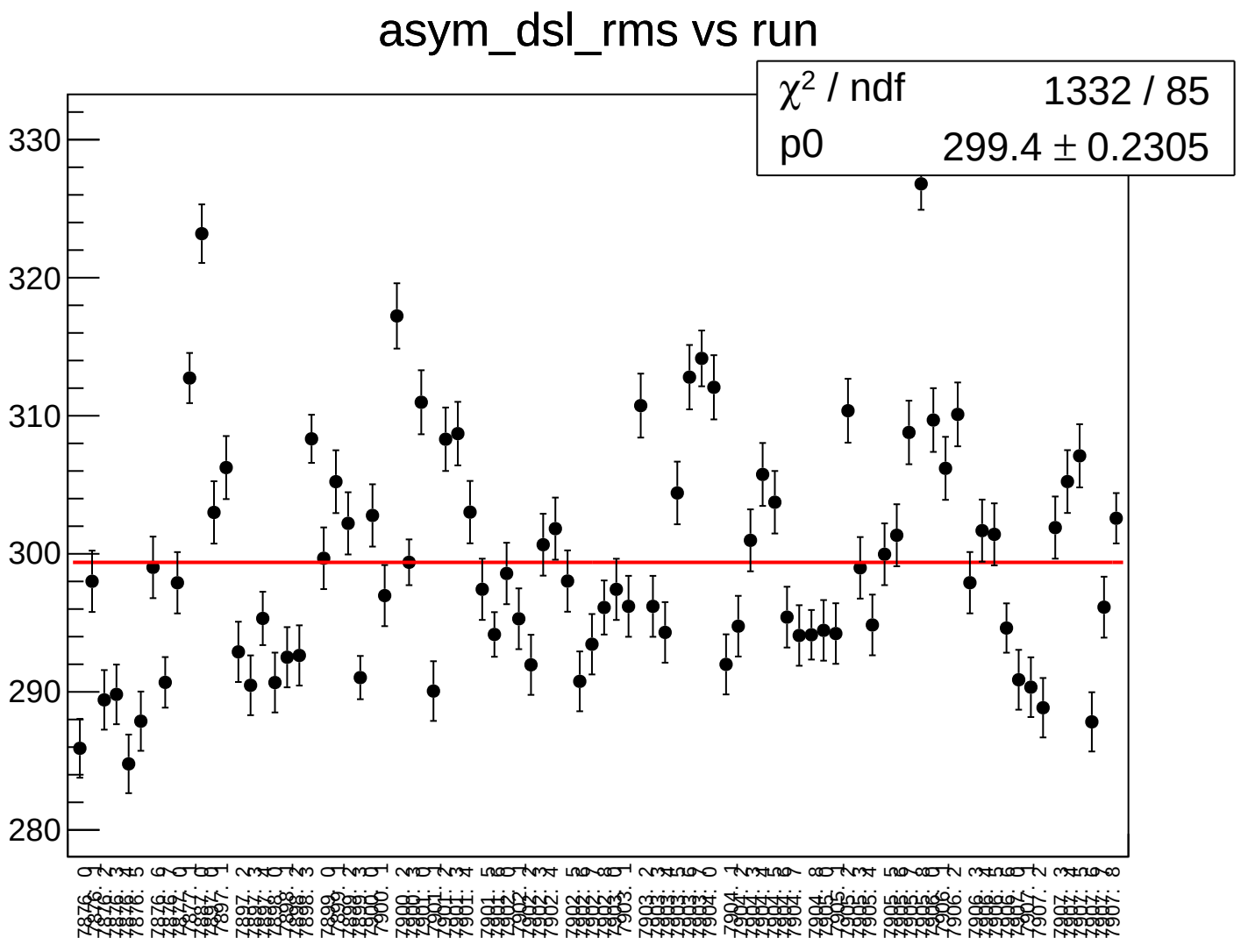

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.45 / 85
p0 −0.05465 ± 0.05023
pull
Entries 86
Mean −829.9
Std Dev 0

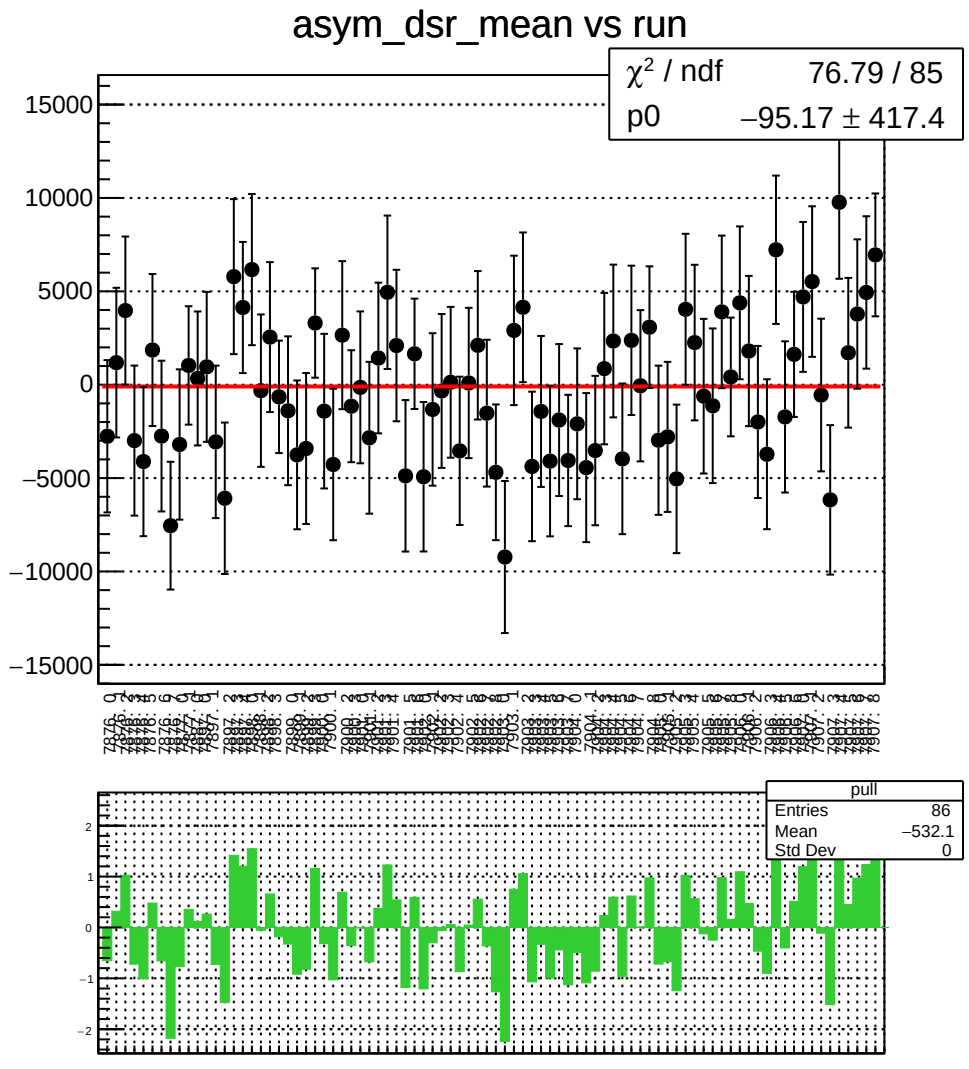

pull1D
Entries 86
Mean 0.002182
Std Dev 0.9672

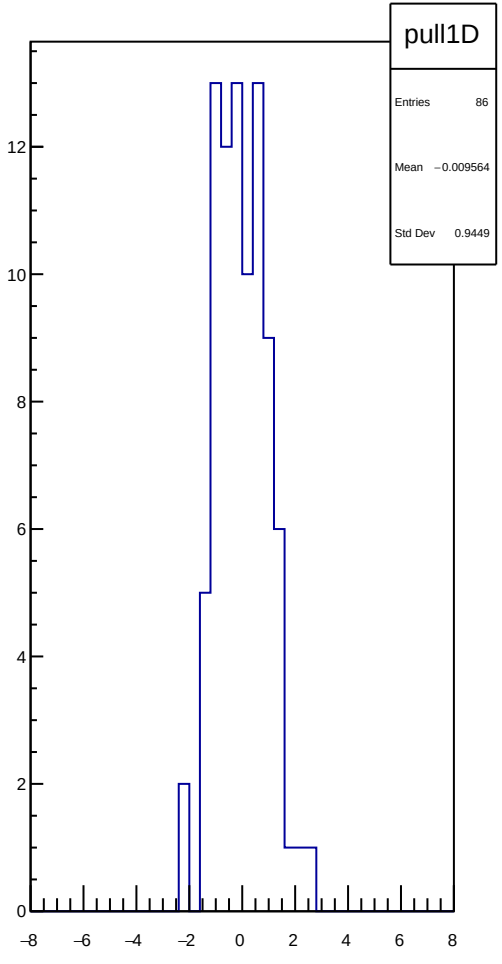

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.099e+04 / 85
p0 44.89 ± 0.03552
80
70
60
50
40
30
20

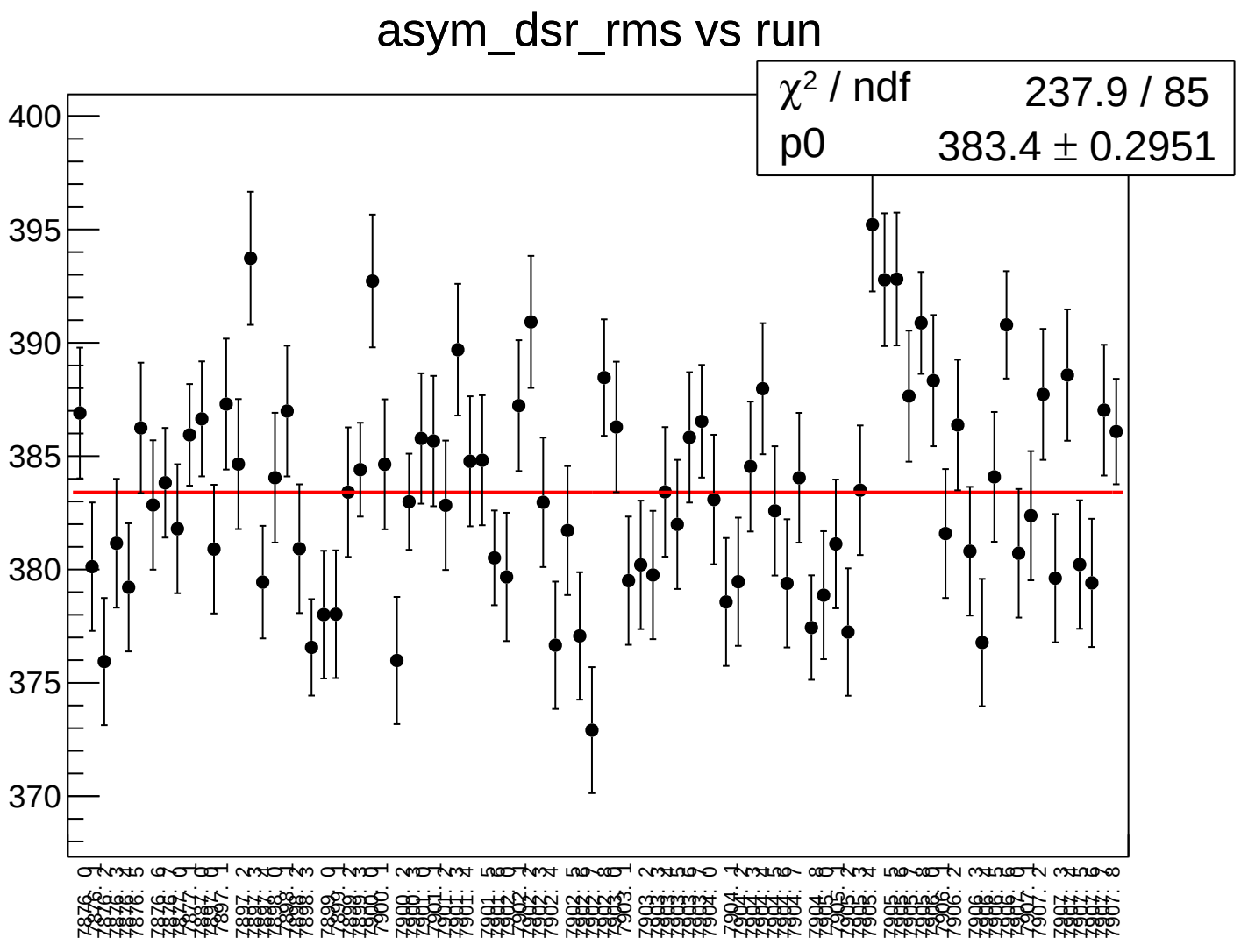

asym_dsl_mean vs run
χ² / ndf 89.17 / 85
p0 −34.6 ± 326
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 353
Std Dev 0
2
1
0
−1
−2

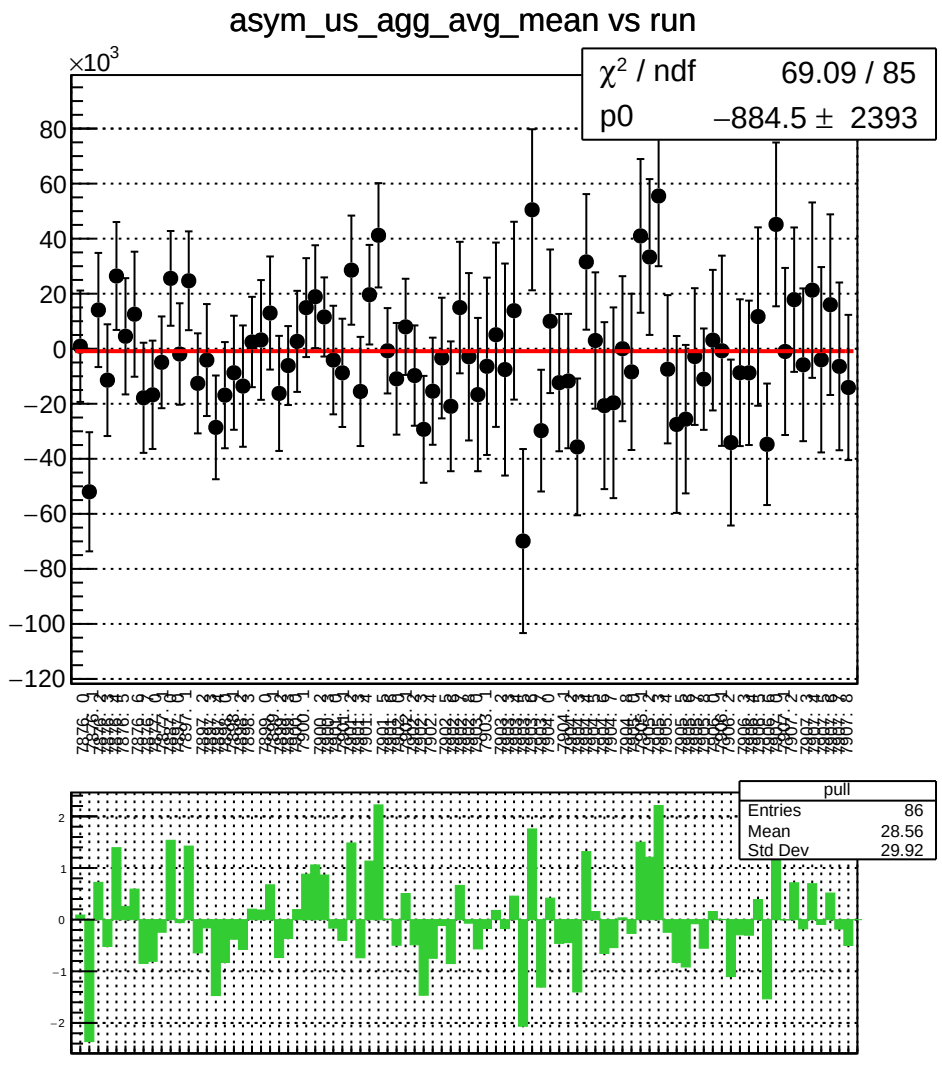

pull1D
Entries 86
Mean −0.02108
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

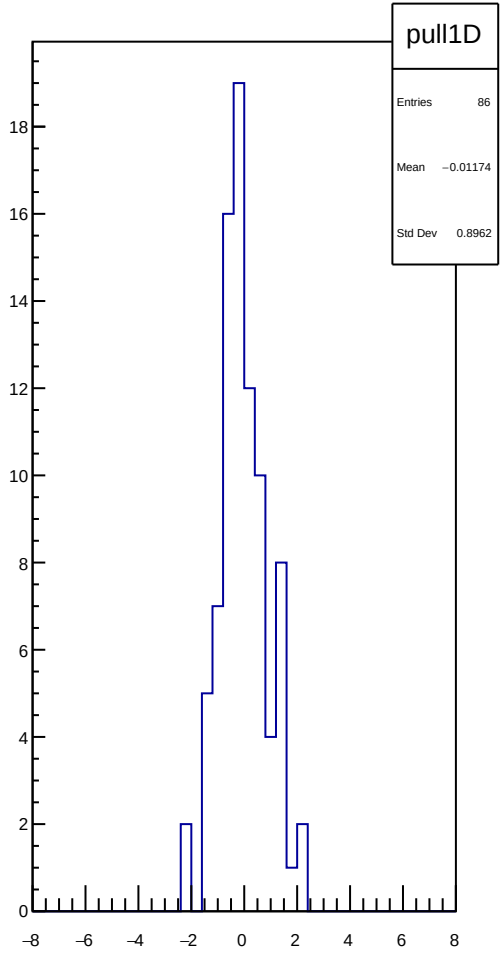

asym_dsl_rms vs run
χ^2 / ndf 1332 / 85
p0 299.4 ± 0.2305
330
320
310
300
290
280

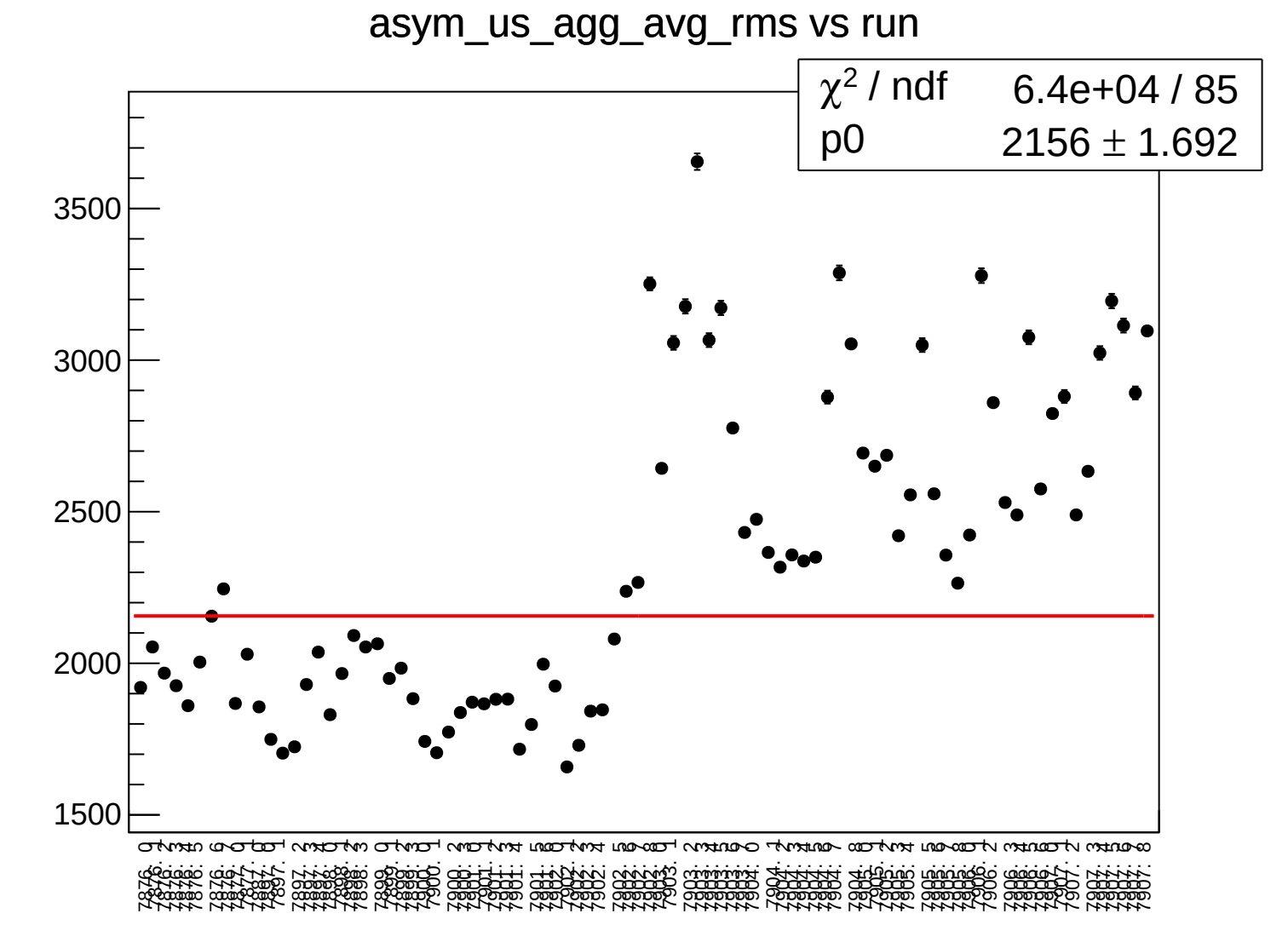

asym_dsr_mean vs run
χ² / ndf 76.79 / 85
p0 −95.17 ± 417.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −532.1
Std Dev 0
2
1
0
−1
−2

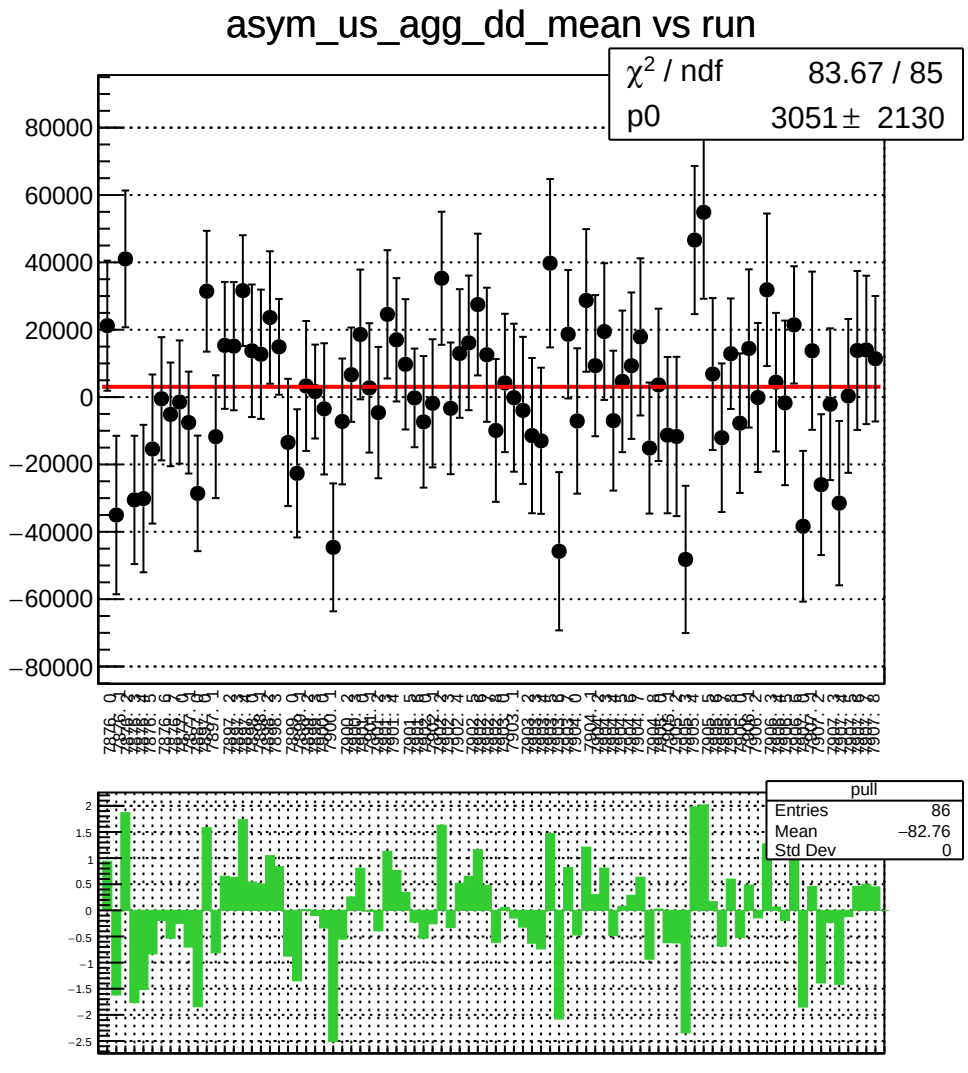

pull1D
Entries 86
Mean −0.009564
Std Dev 0.9449
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

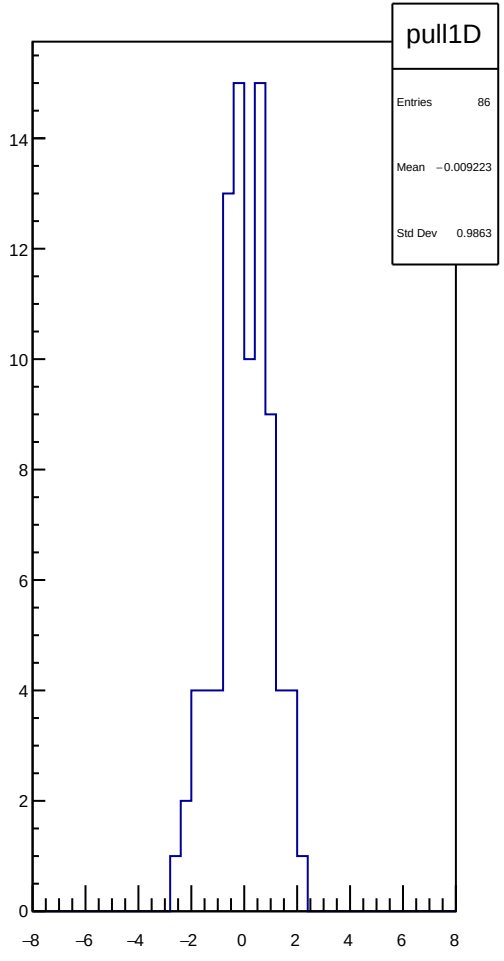

asym_dsr_rms vs run
χ² / ndf 237.9 / 85
p0 383.4 ± 0.2951
400
395
390
385
380
375
370

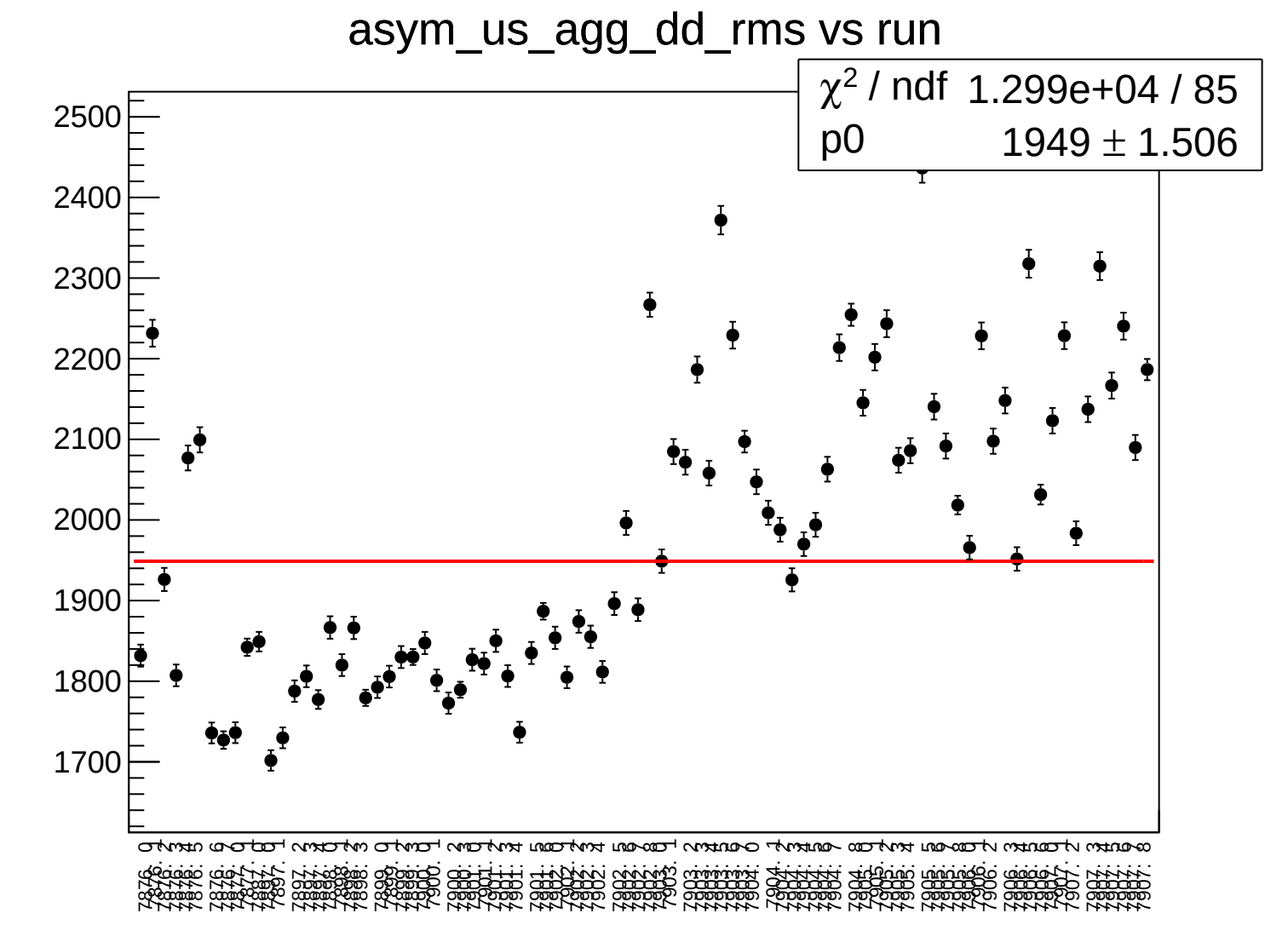

asym_us_agg_avg_mean vs run
×10^3
χ² / ndf 69.09 / 85
p0 −884.5 ± 2393
pull
Entries 86
Mean 28.56
Std Dev 29.92

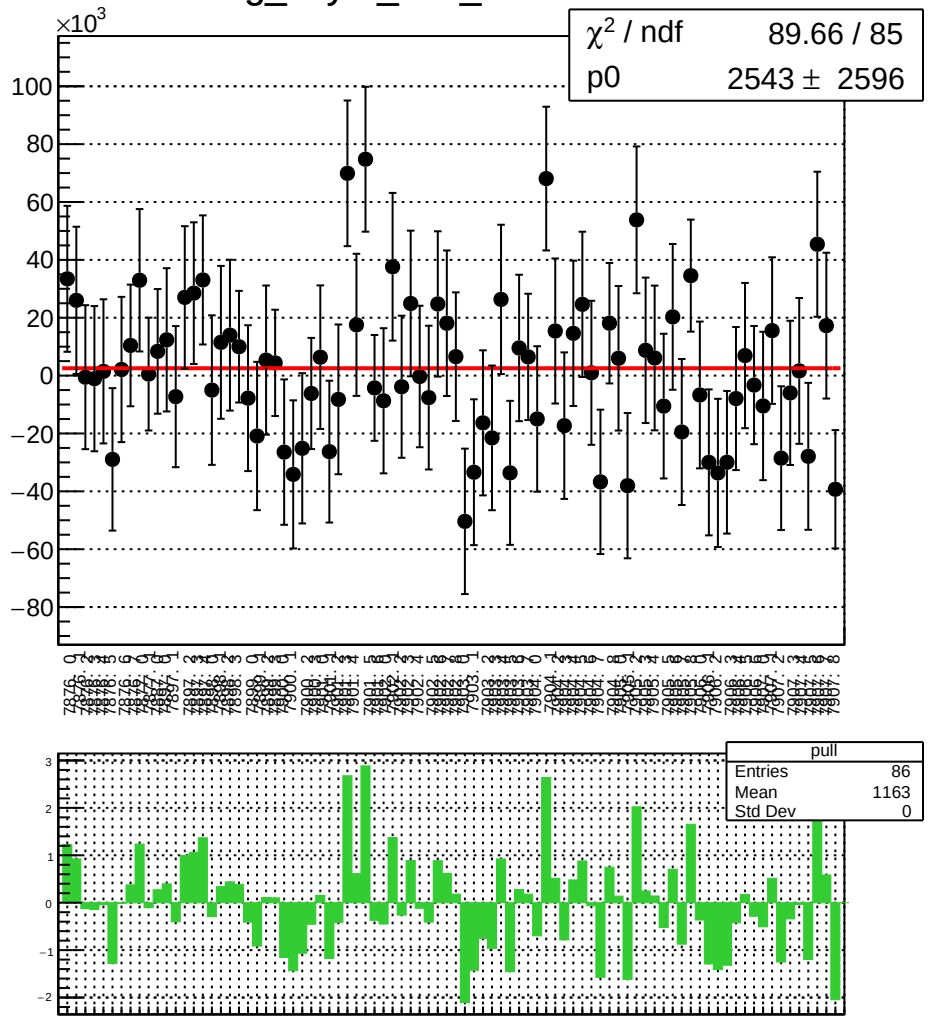

pull1D
Entries 86
Mean −0.01174
Std Dev 0.8962

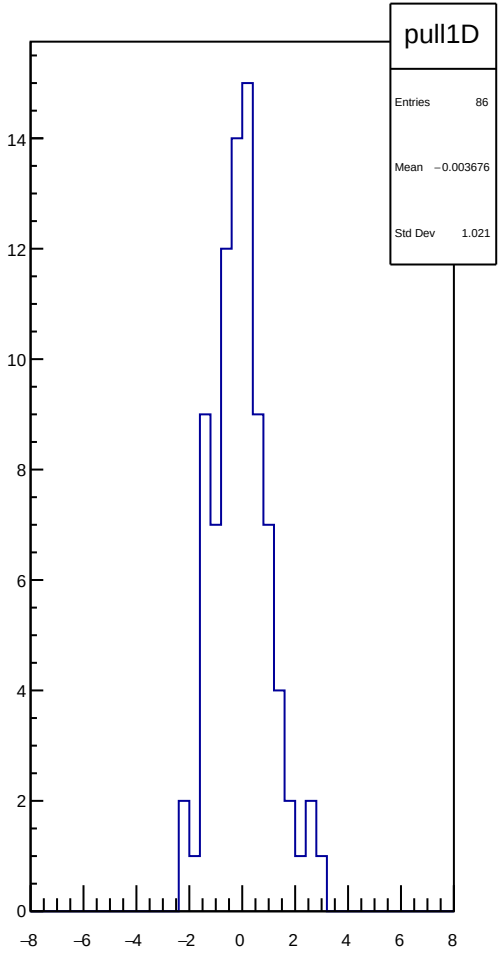

asym_us_agg_avg_rms vs run
χ^2 / ndf 6.4e+04 / 85
p0 2156 ± 1.692
3500
3000
2500
2000
1500

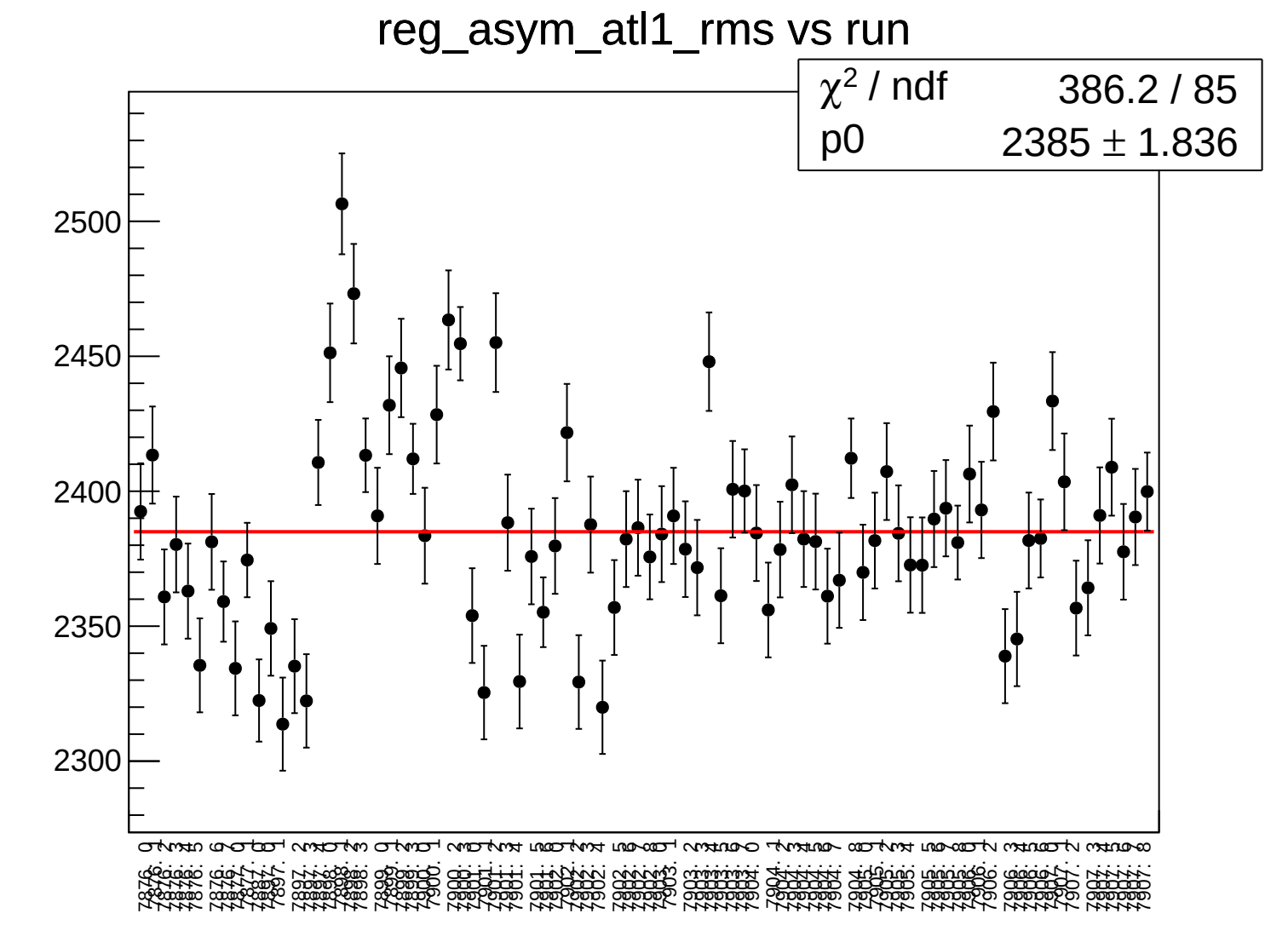

asym_us_agg_dd_mean vs run
χ² / ndf 83.67 / 85
p0 3051 ± 2130
pull
Entries 86
Mean −82.76
Std Dev 0

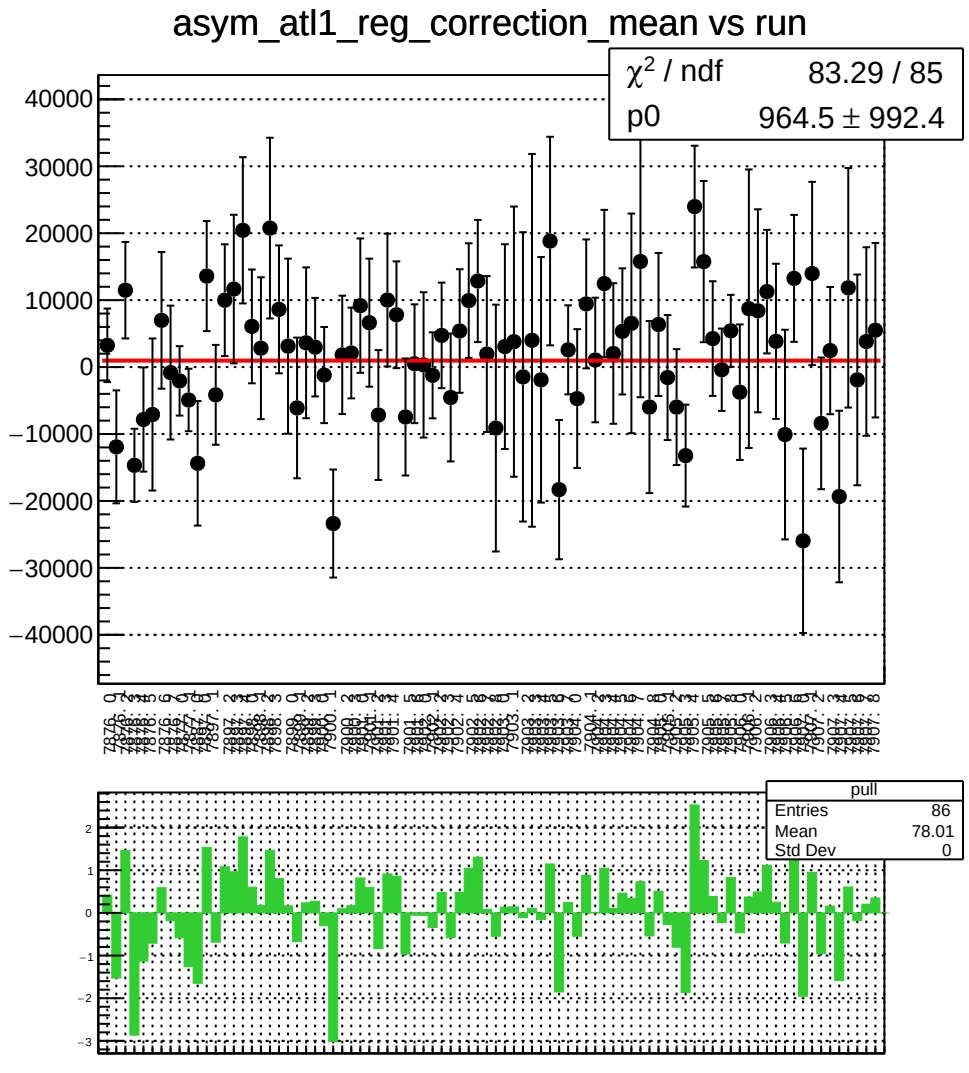

pull1D
Entries 86
Mean −0.009223
Std Dev 0.9863

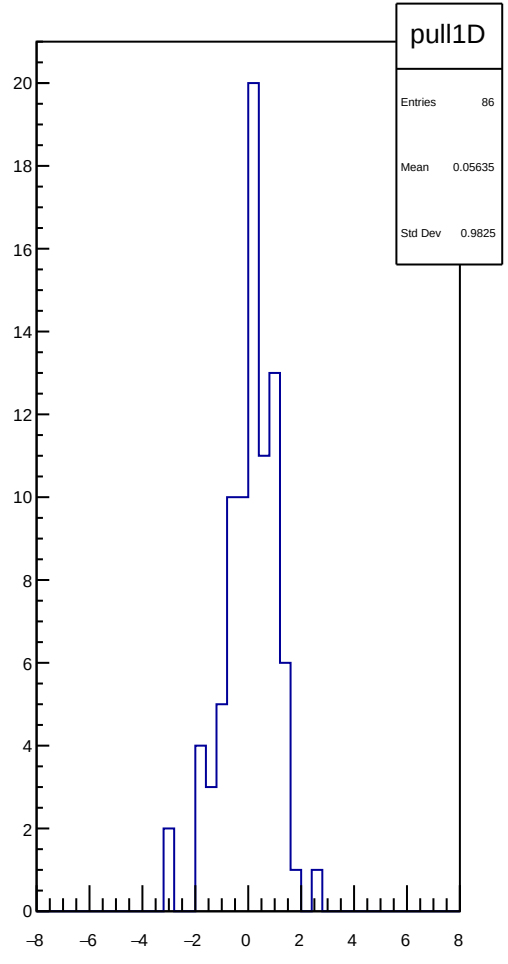

asym_us_agg_dd_rms vs run
χ² / ndf 1.299e+04 / 85
p0 1949 ± 1.506
2500
2400
2300
2200
2100
2000
1900
1800
1700

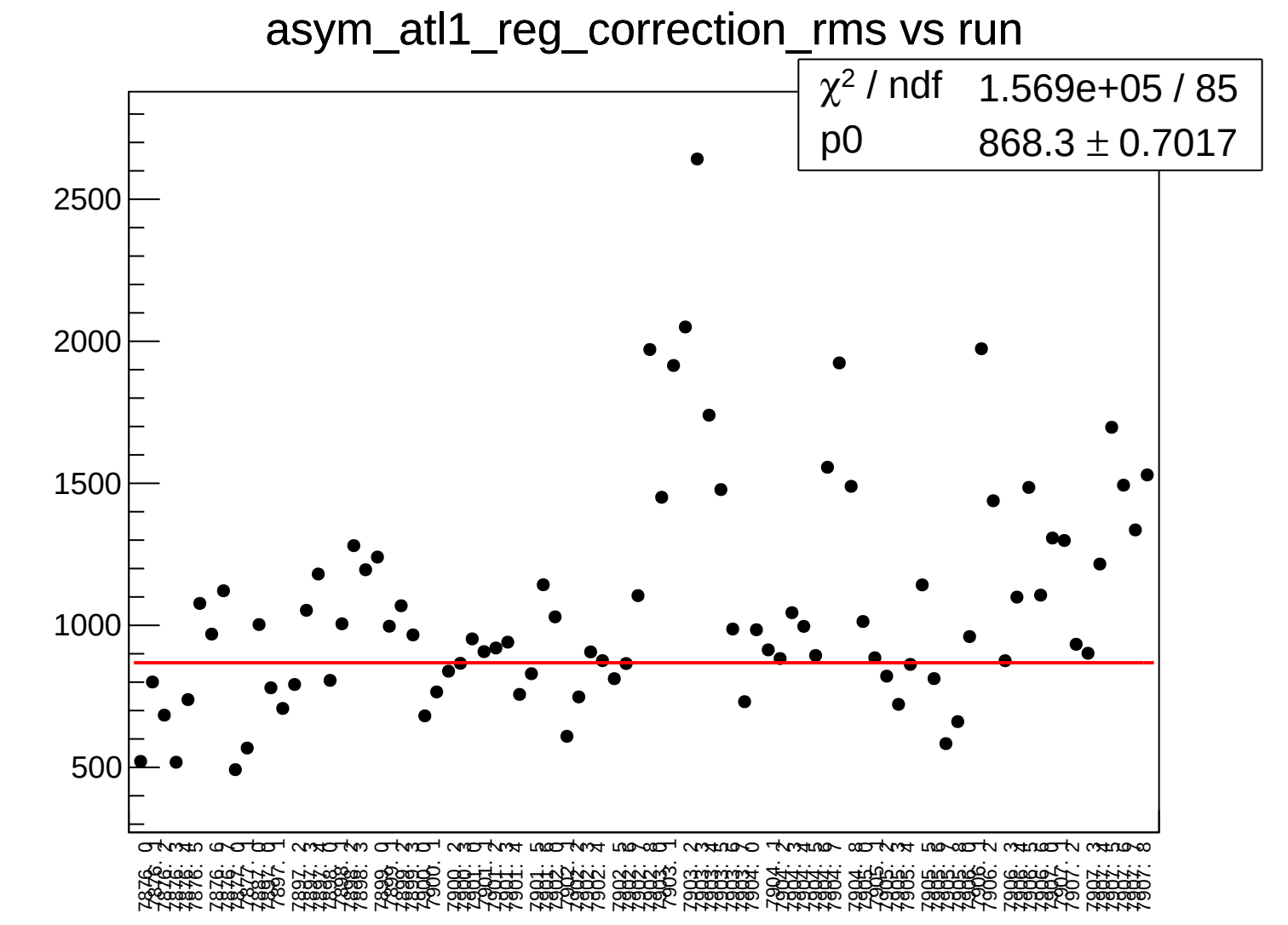

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 89.66 / 85
p0 2543 ± 2596
pull
Entries 86
Mean 1163
Std Dev 0

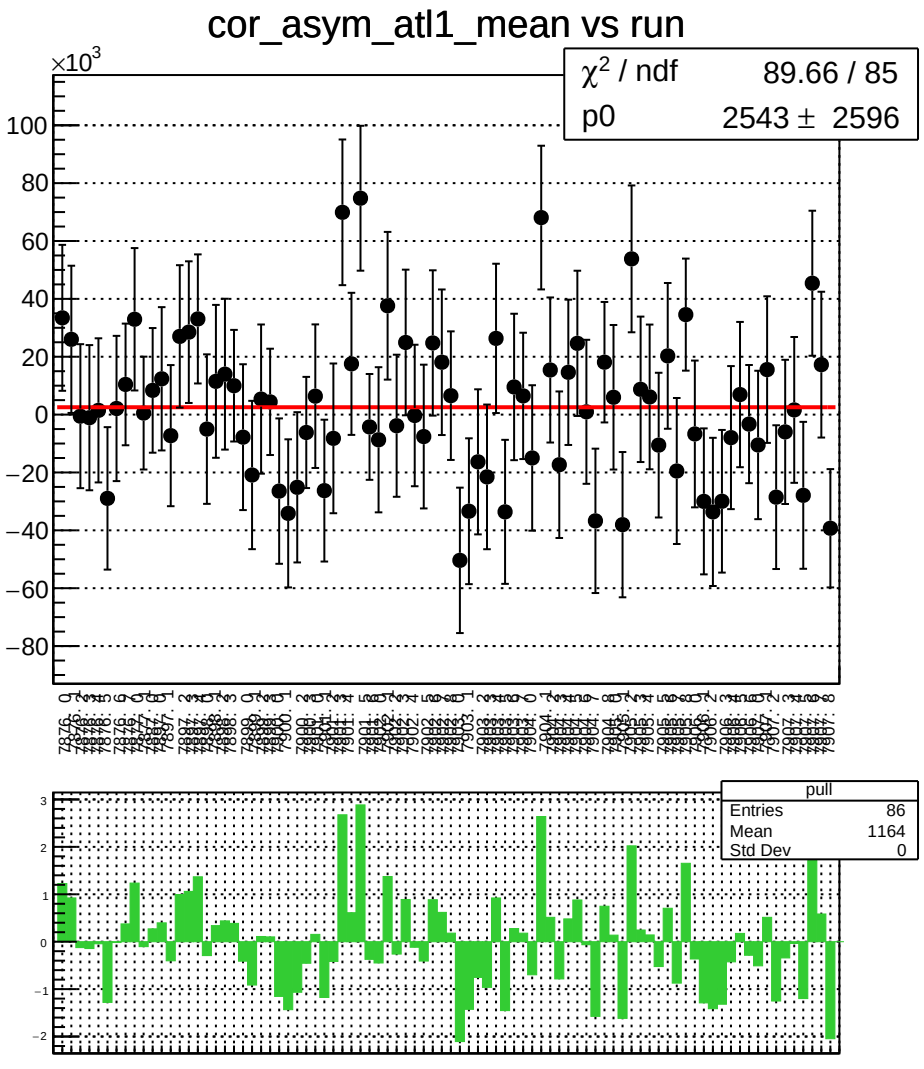

pull1D
Entries 86
Mean −0.003676
Std Dev 1.021

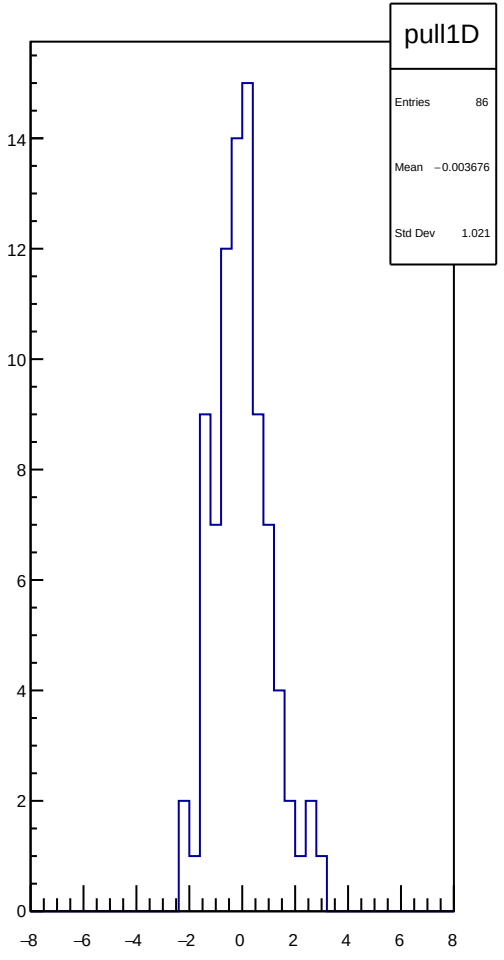

reg_asym_atl1_rms vs run
χ^2 / ndf 386.2 / 85
p0 2385 ± 1.836
2500
2450
2400
2350
2300

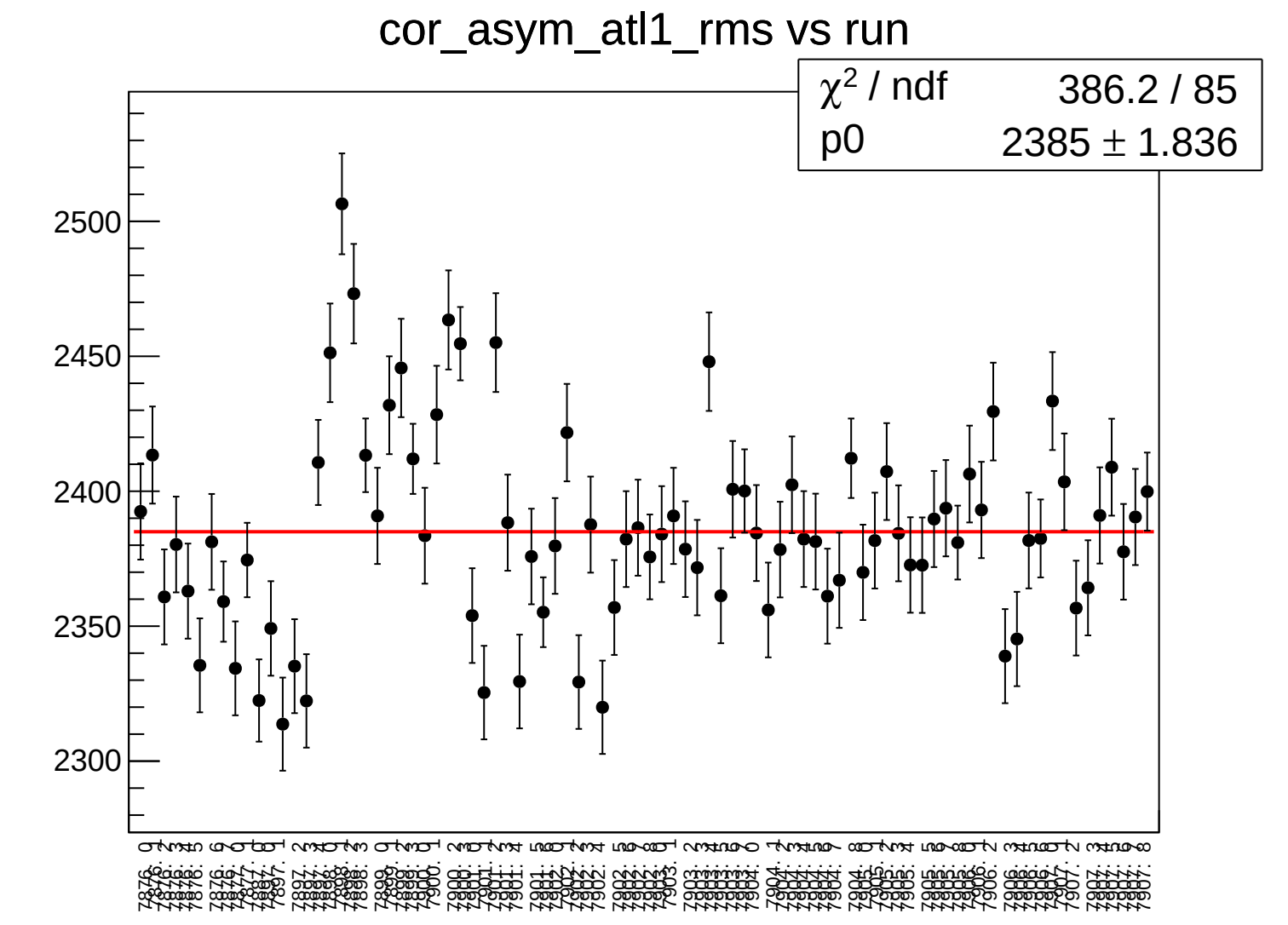

asym_atl1_reg_correction_mean vs run
χ² / ndf 83.29 / 85
p0 964.5 ± 992.4
pull
Entries 86
Mean 78.01
Std Dev 0

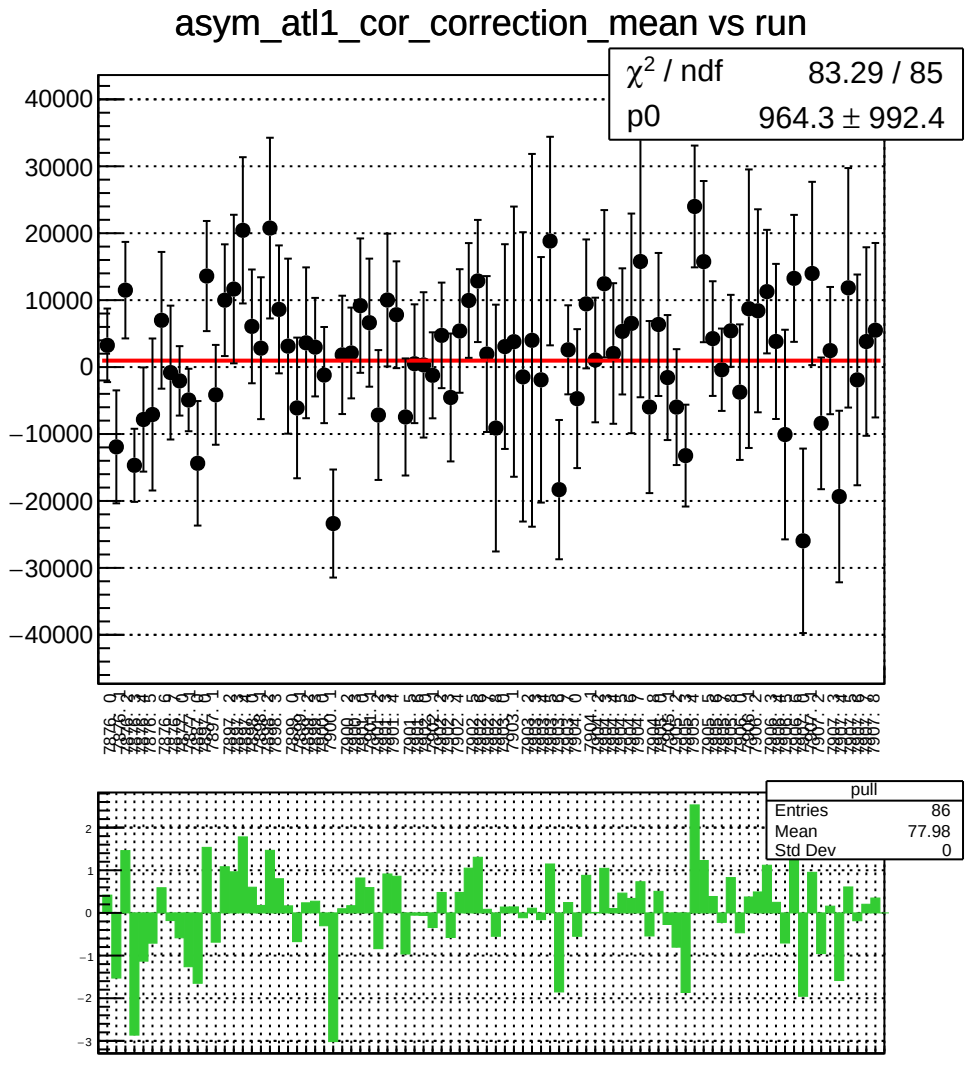

pull1D
Entries 86
Mean 0.05635
Std Dev 0.9825

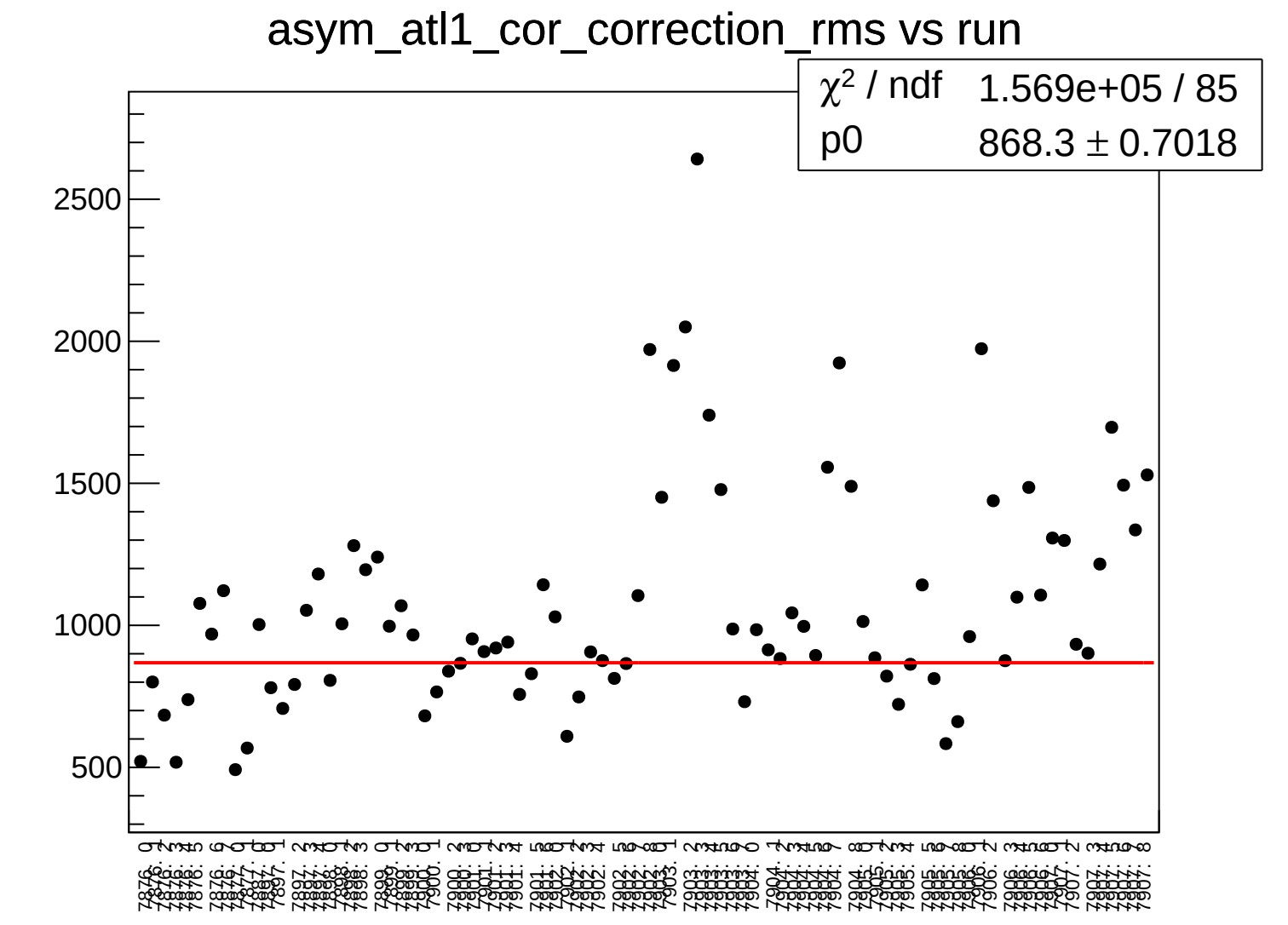

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.569e+05 / 85
p0 868.3 ± 0.7017
2500
2000
1500
1000
500

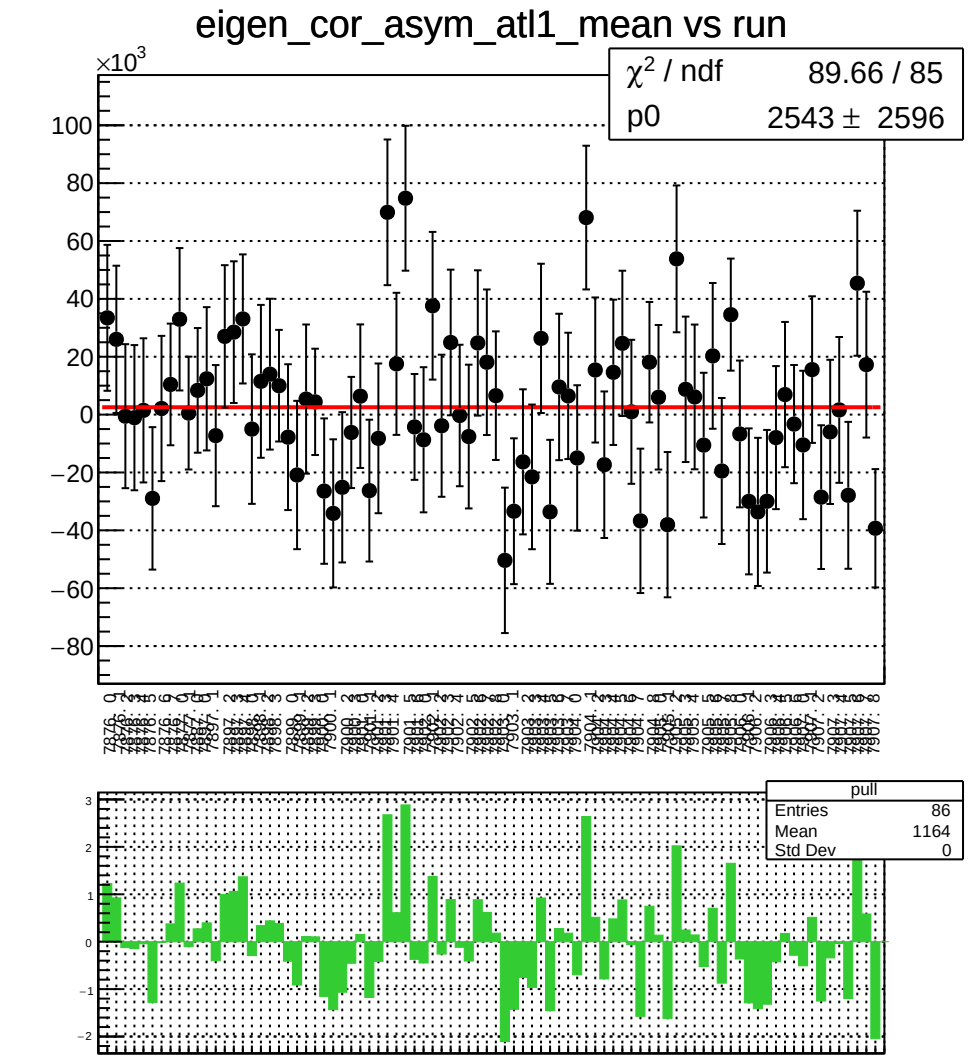

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 89.66 / 85
p0 2543 ± 2596
pull
Entries 86
Mean 1164
Std Dev 0

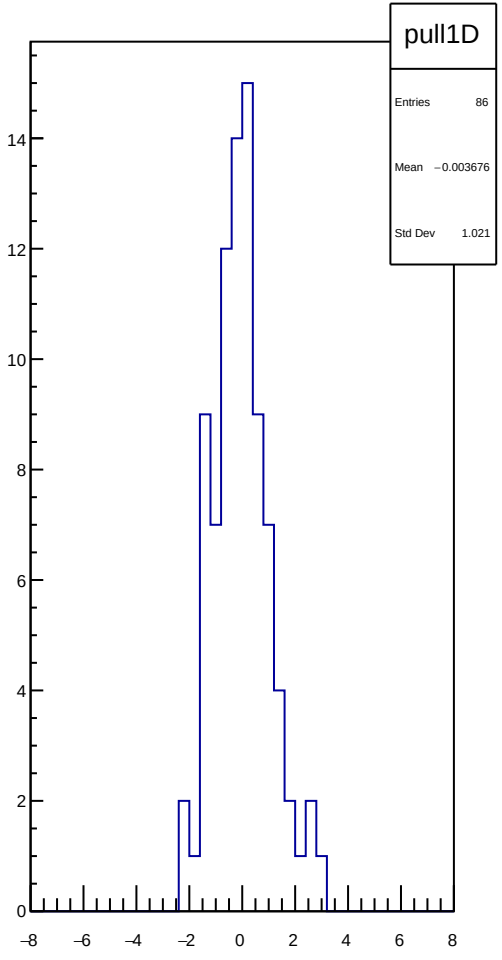

pull1D
Entries 86
Mean −0.003676
Std Dev 1.021

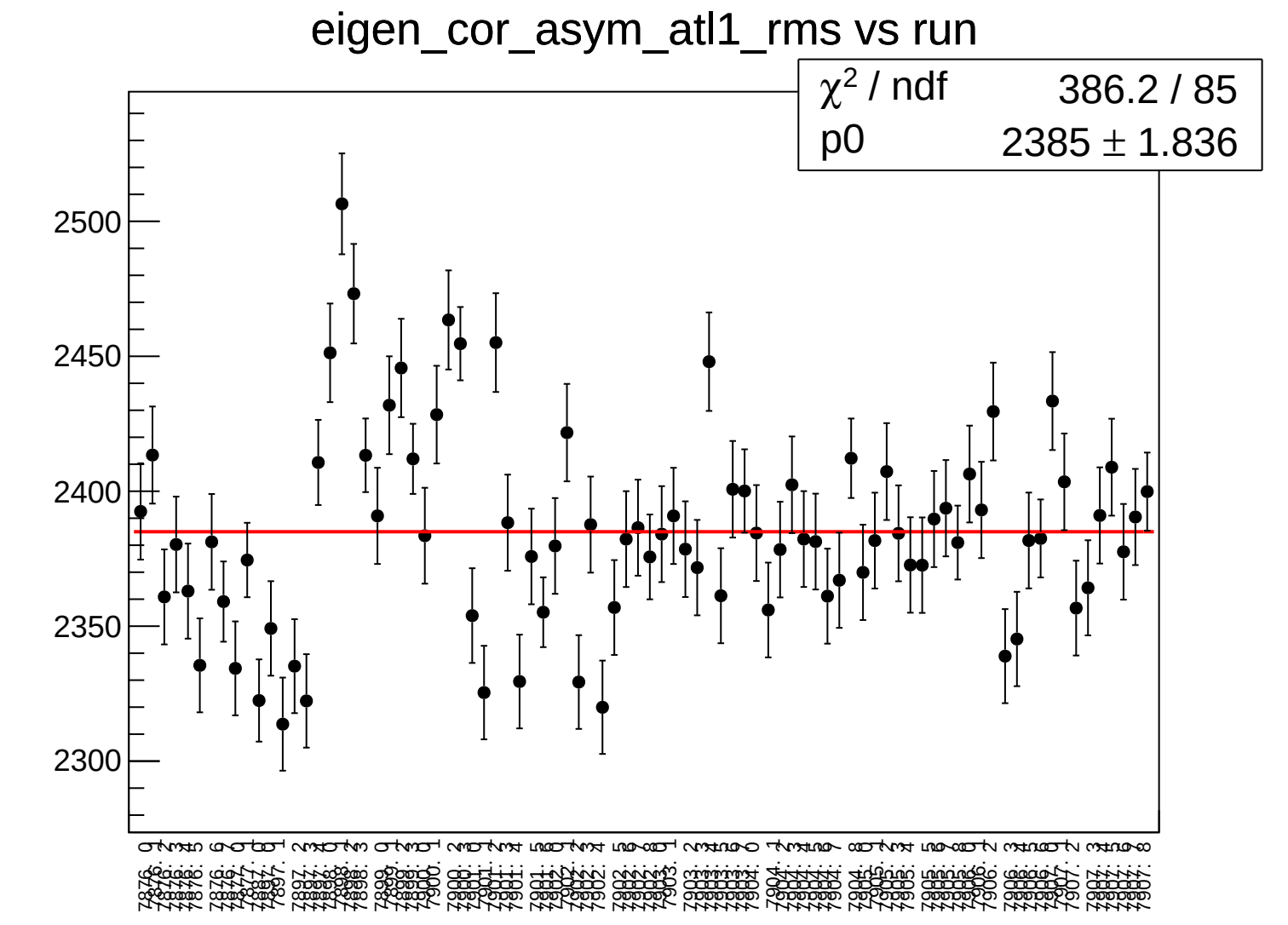

cor_asym_atl1_rms vs run
χ^2 / ndf 386.2 / 85
p0 2385 ± 1.836
2500
2450
2400
2350
2300

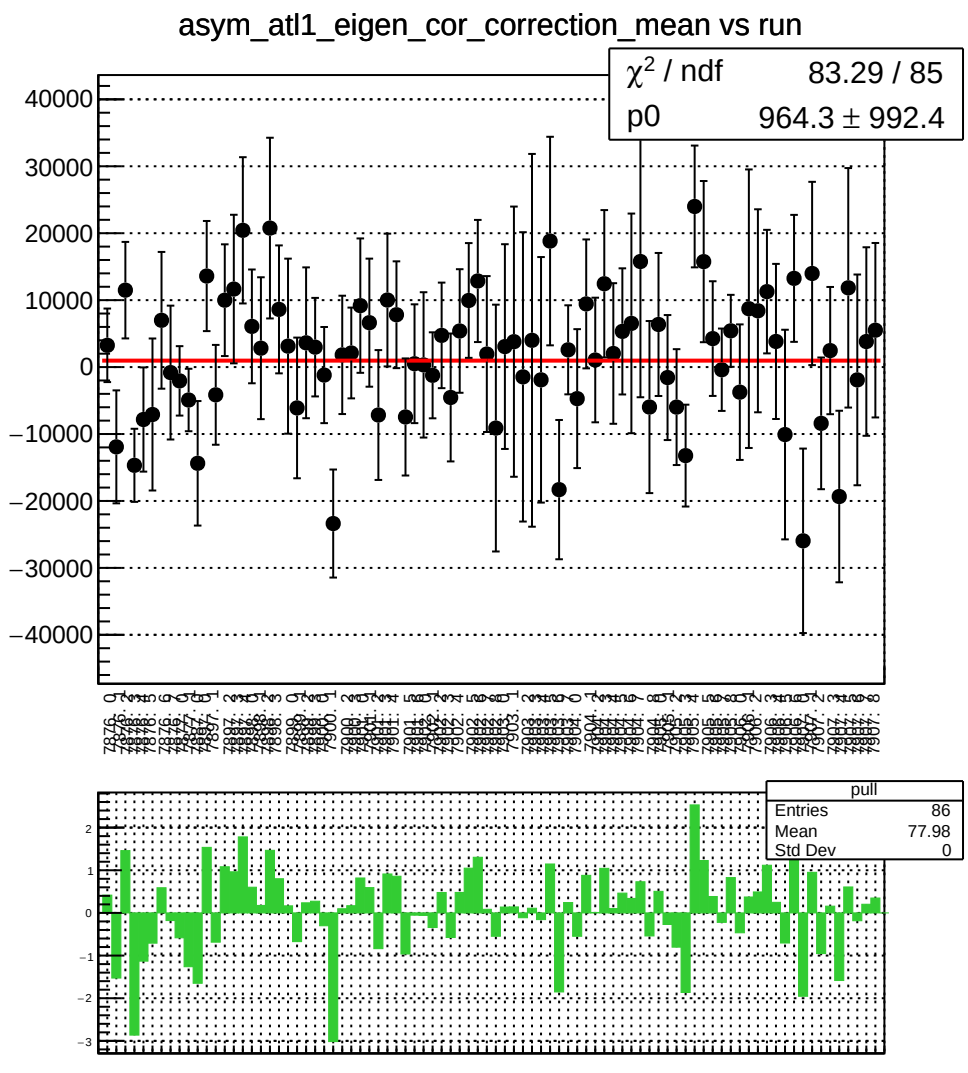

asym_atl1_cor_correction_mean vs run
χ² / ndf 83.29 / 85
p0 964.3 ± 992.4
pull
Entries 86
Mean 77.98
Std Dev 0
pull1D
Entries 86
Mean 0.05637
Std Dev 0.9825

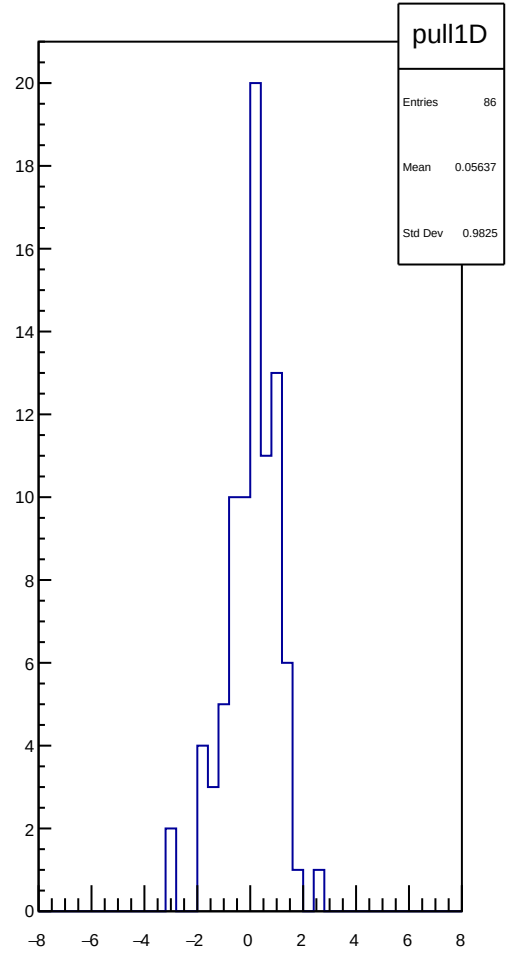

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.569e+05 / 85
p0 868.3 ± 0.7018
2500
2000
1500
1000
500

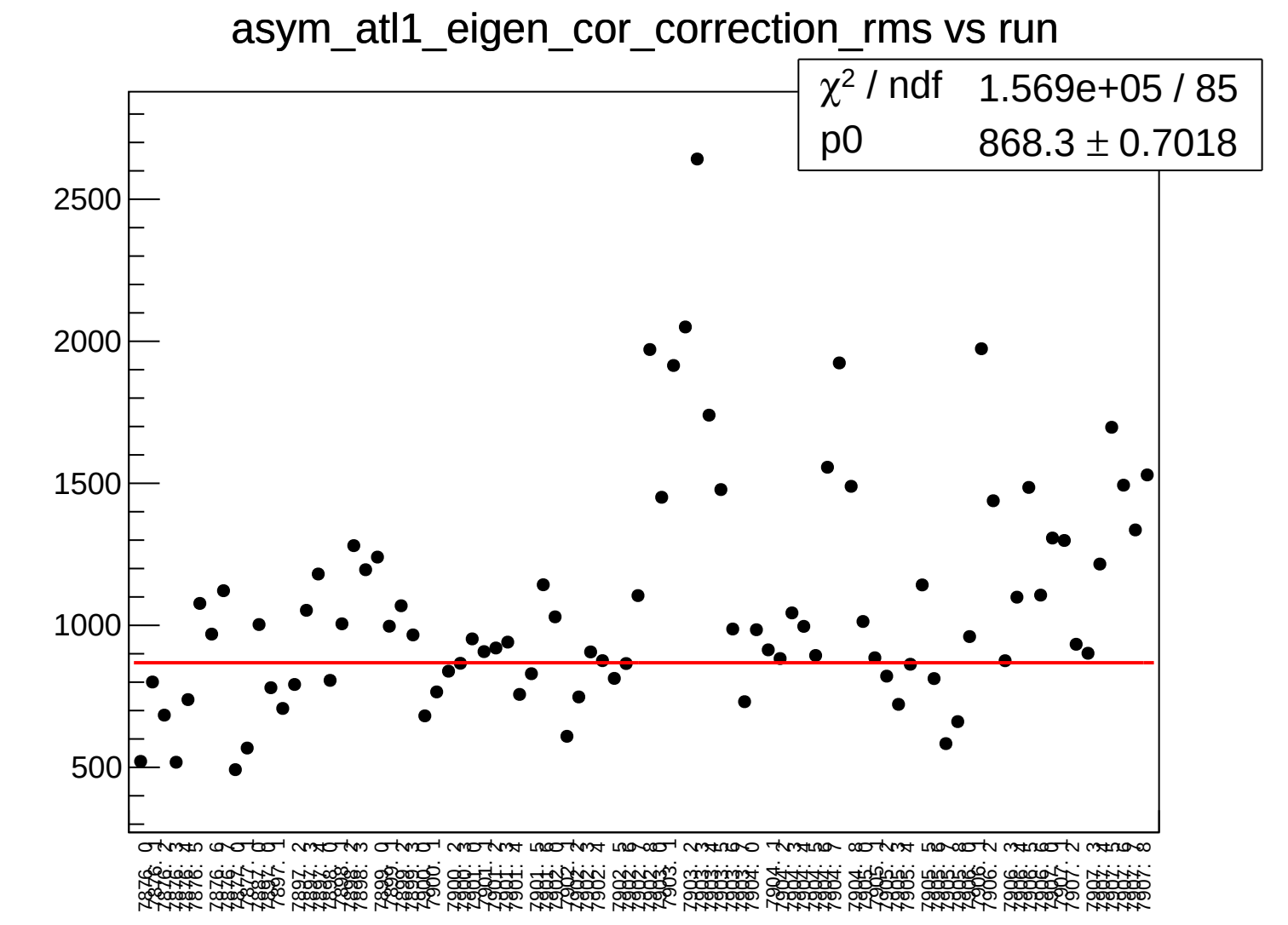

eigen_cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 89.66 / 85
p0 2543 ± 2596
pull
Entries 86
Mean 1164
Std Dev 0

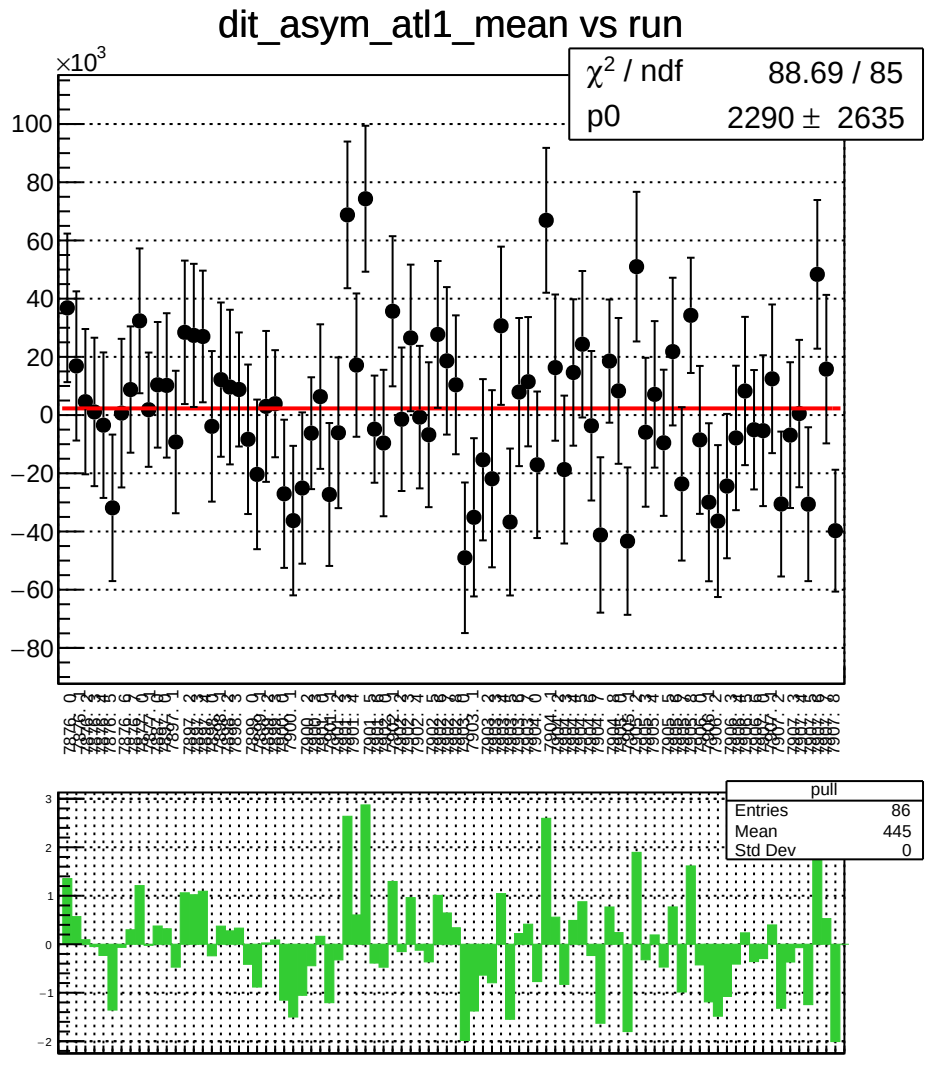

pull1D
Entries 86
Mean −0.003676
Std Dev 1.021

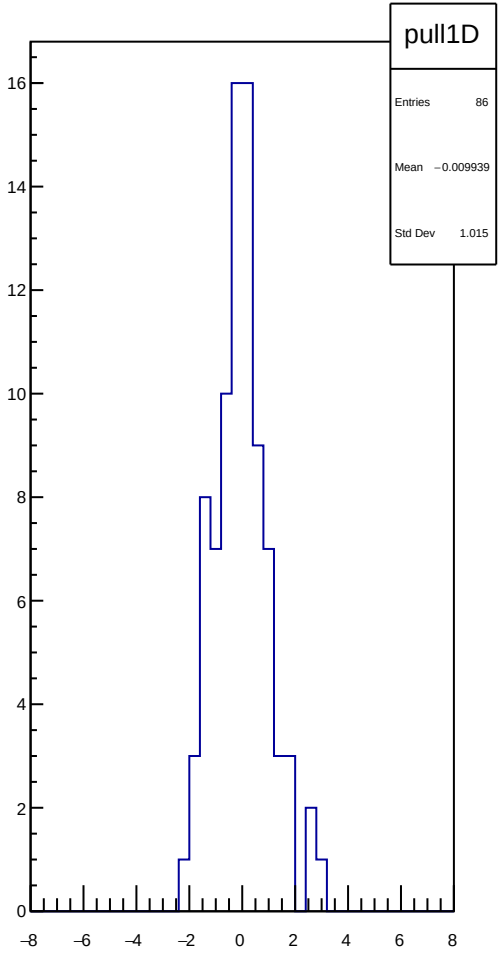

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 386.2 / 85
p0 2385 ± 1.836
2500
2450
2400
2350
2300

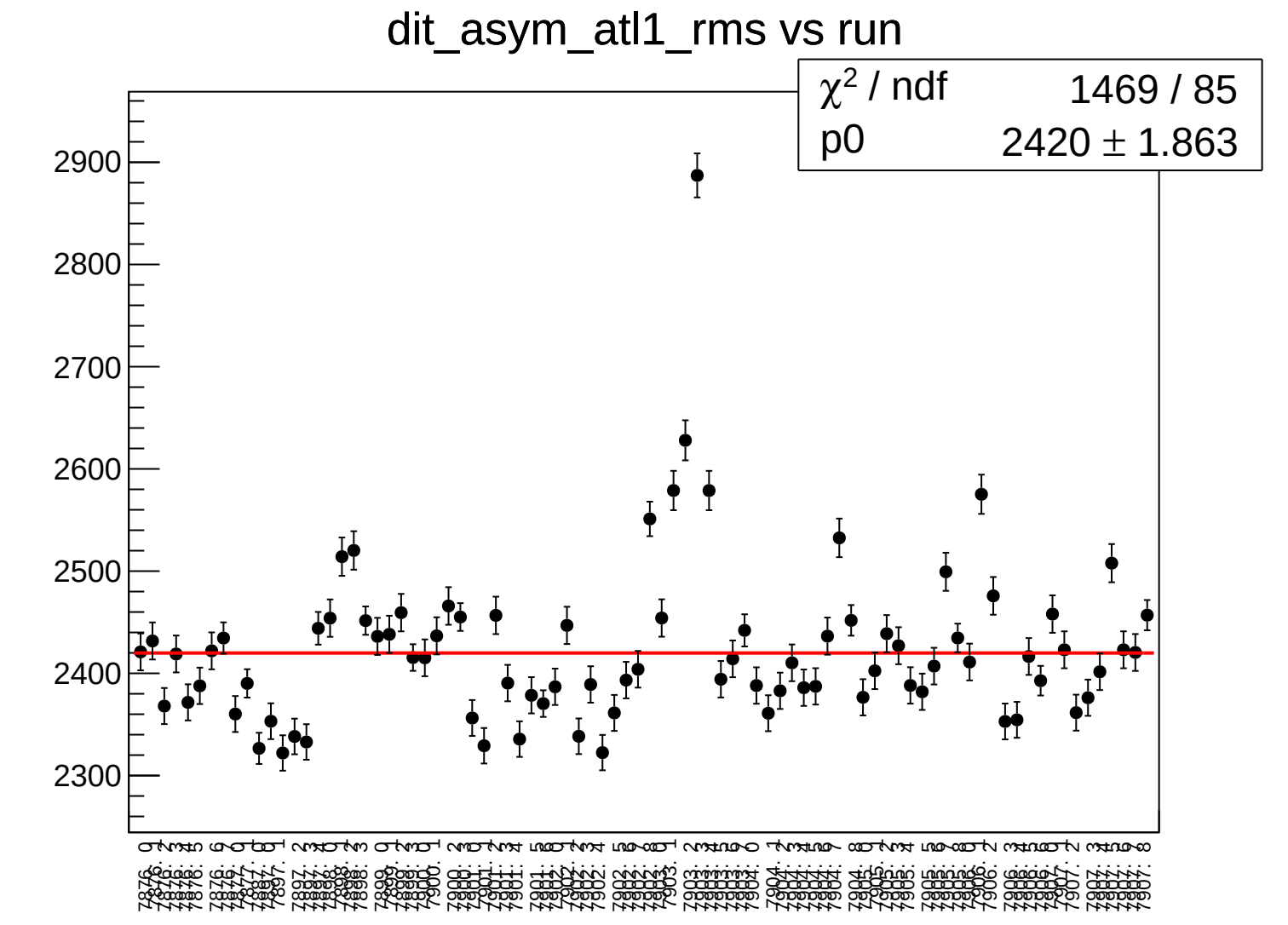

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 83.29 / 85
p0 964.3 ± 992.4
pull
Entries 86
Mean 77.98
Std Dev 0

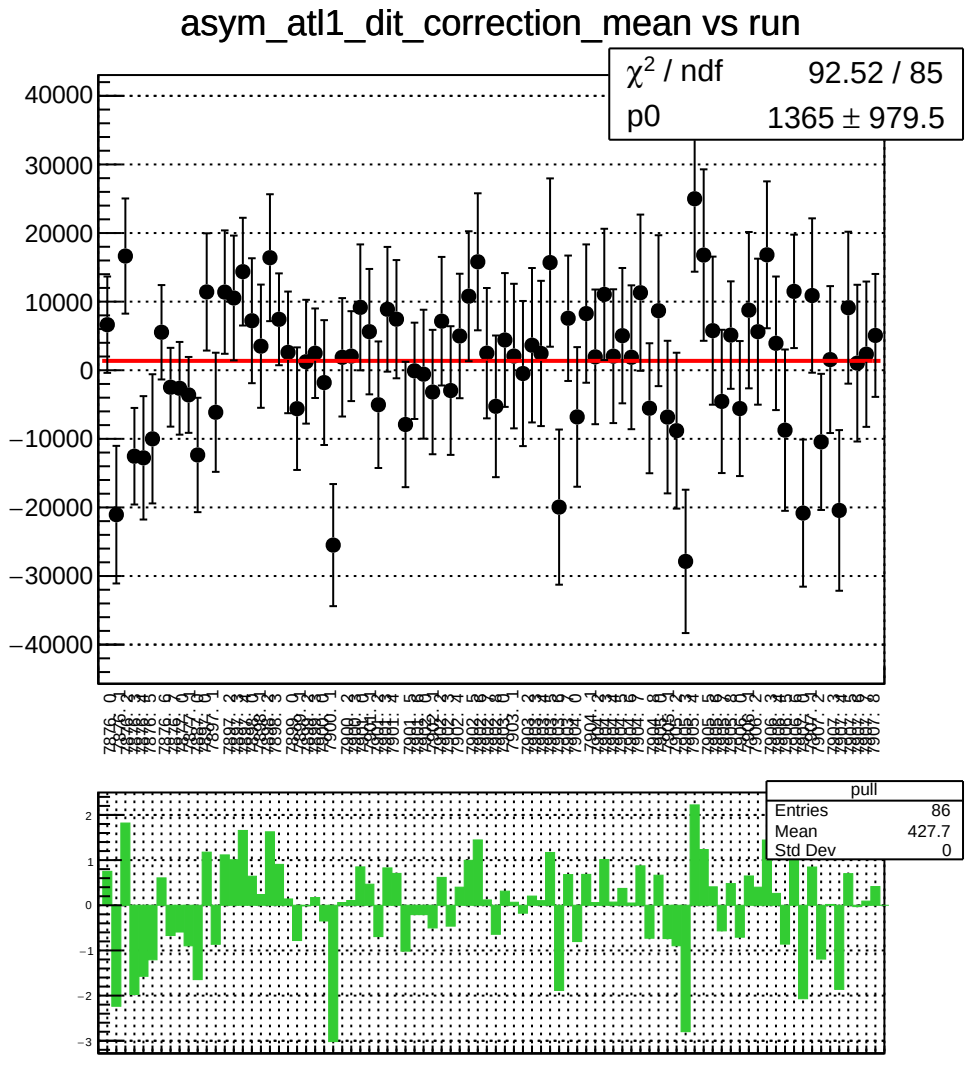

pull1D
Entries 86
Mean 0.05637
Std Dev 0.9825

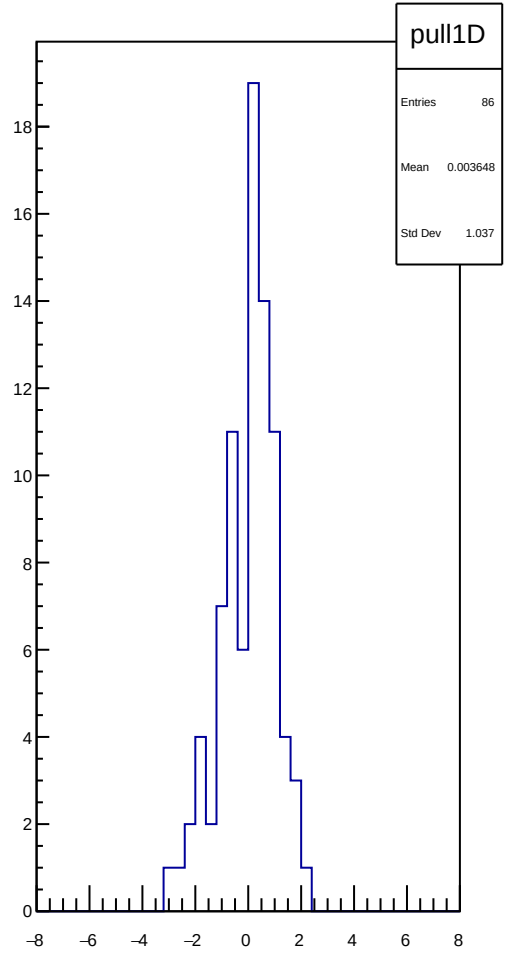

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.569e+05 / 85
p0 868.3 ± 0.7018
2500
2000
1500
1000
500

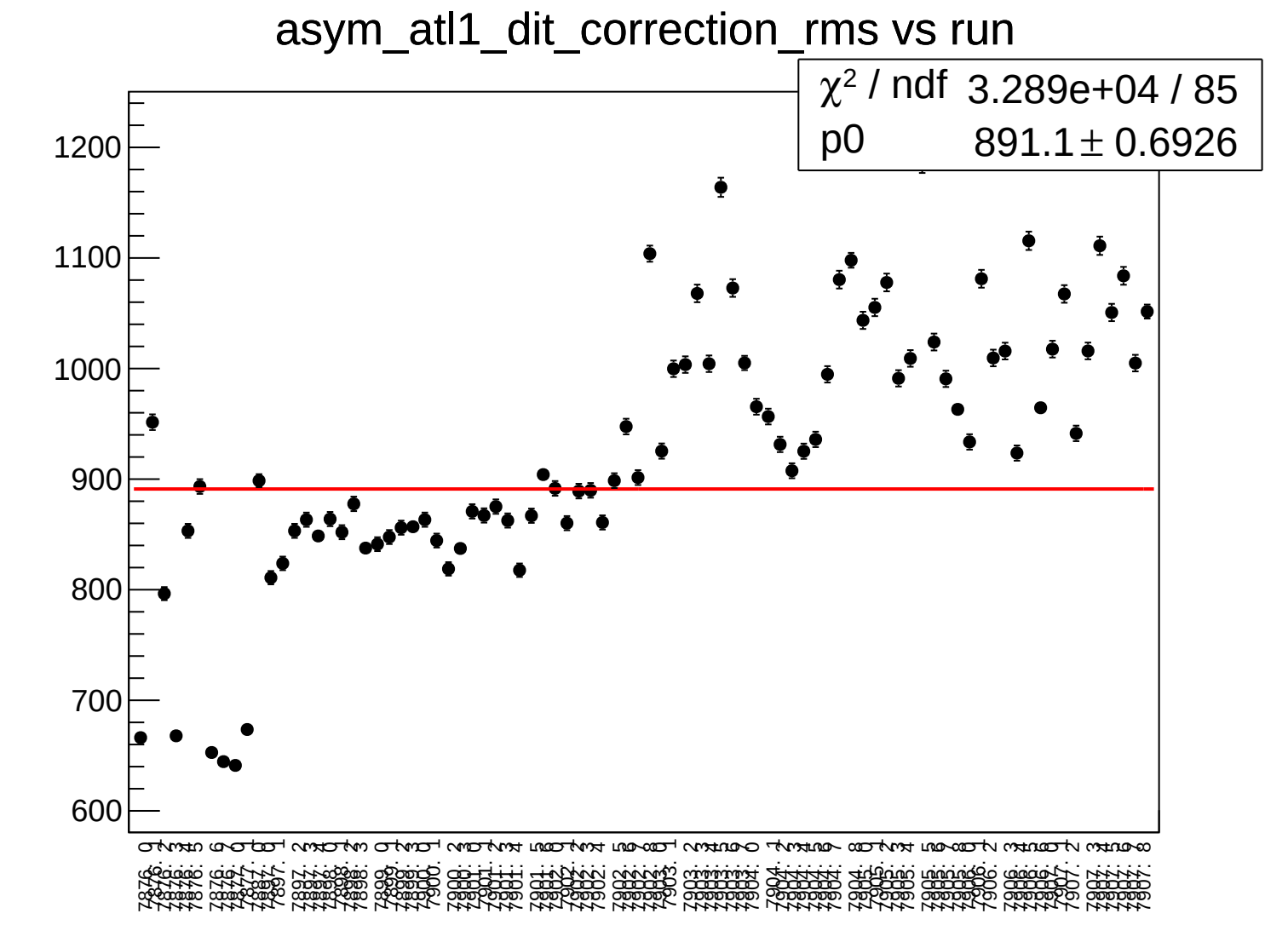

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 88.69 / 85
p0 2290 ± 2635
pull
Entries 86
Mean 445
Std Dev 0

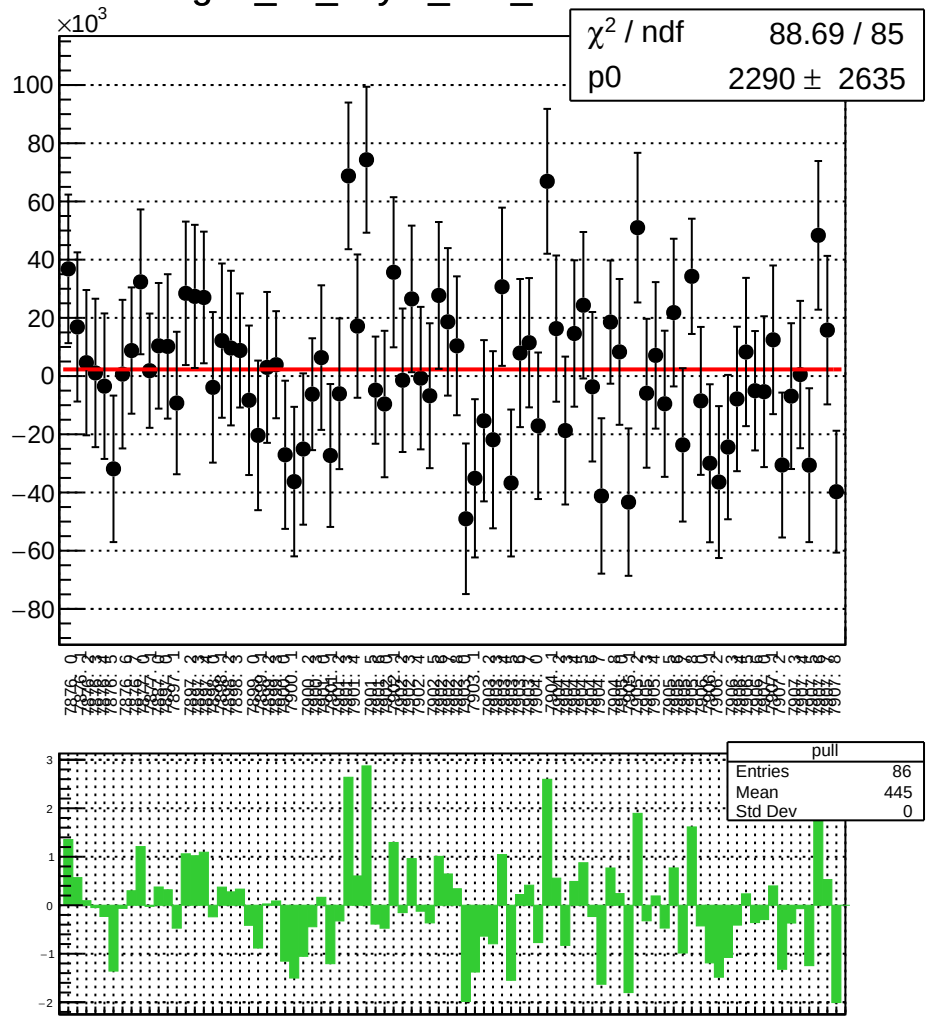

pull1D
Entries 86
Mean −0.009939
Std Dev 1.015

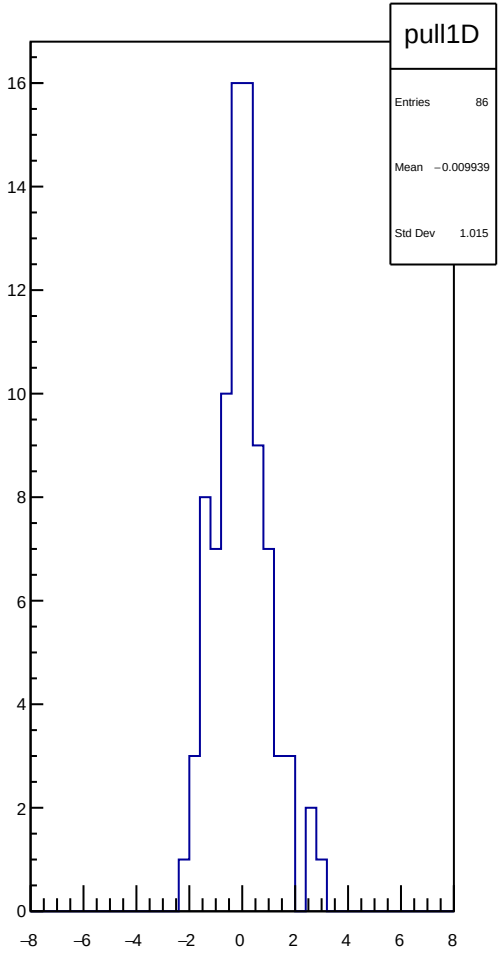

dit_asym_atl1_rms vs run
χ^2 / ndf 1469 / 85
p0 2420 ± 1.863
2900
2800
2700
2600
2500
2400
2300

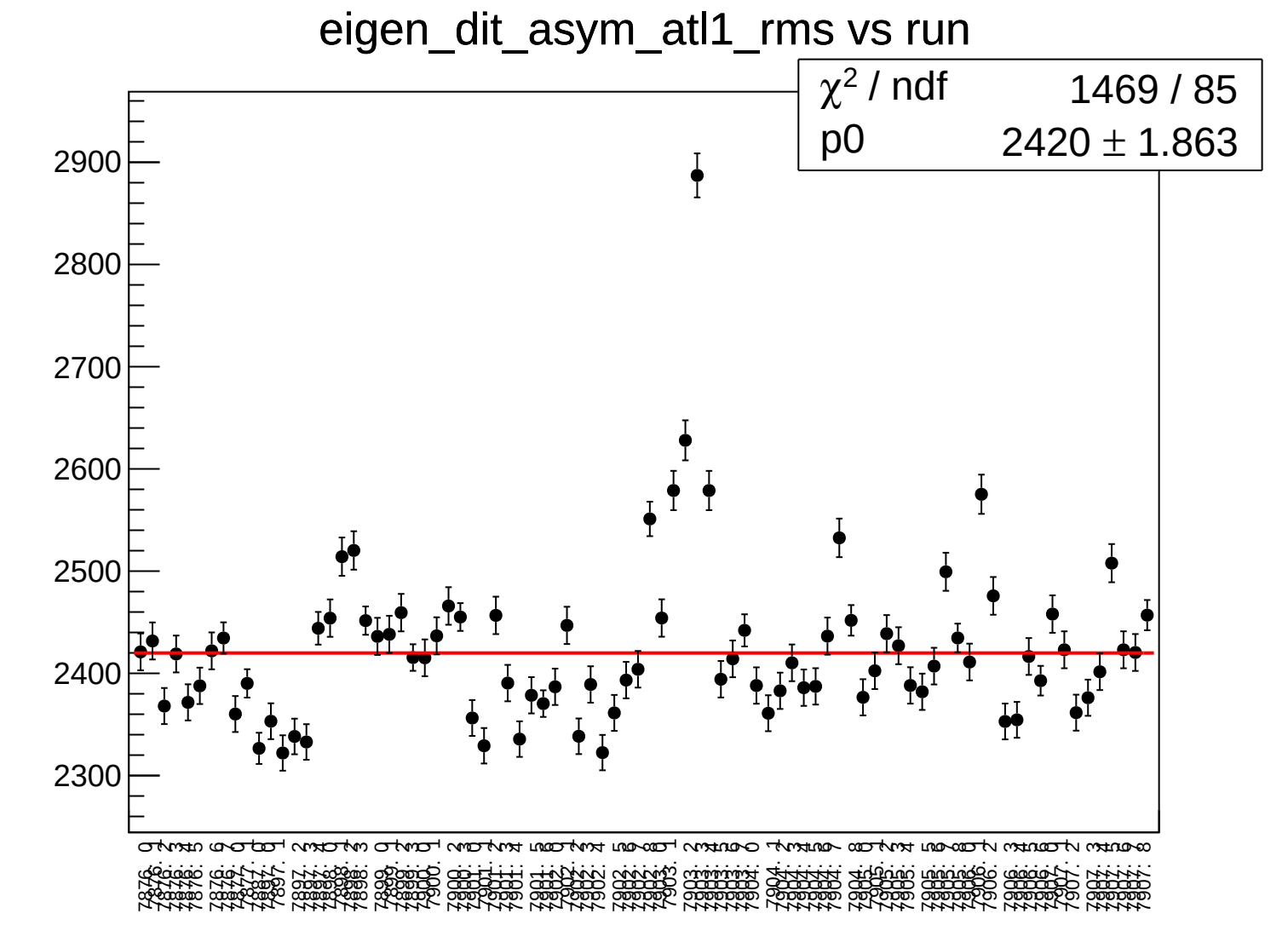

asym_atl1_dit_correction_mean vs run
χ² / ndf 92.52 / 85
p0 1365 ± 979.5
pull
Entries 86
Mean 427.7
Std Dev 0

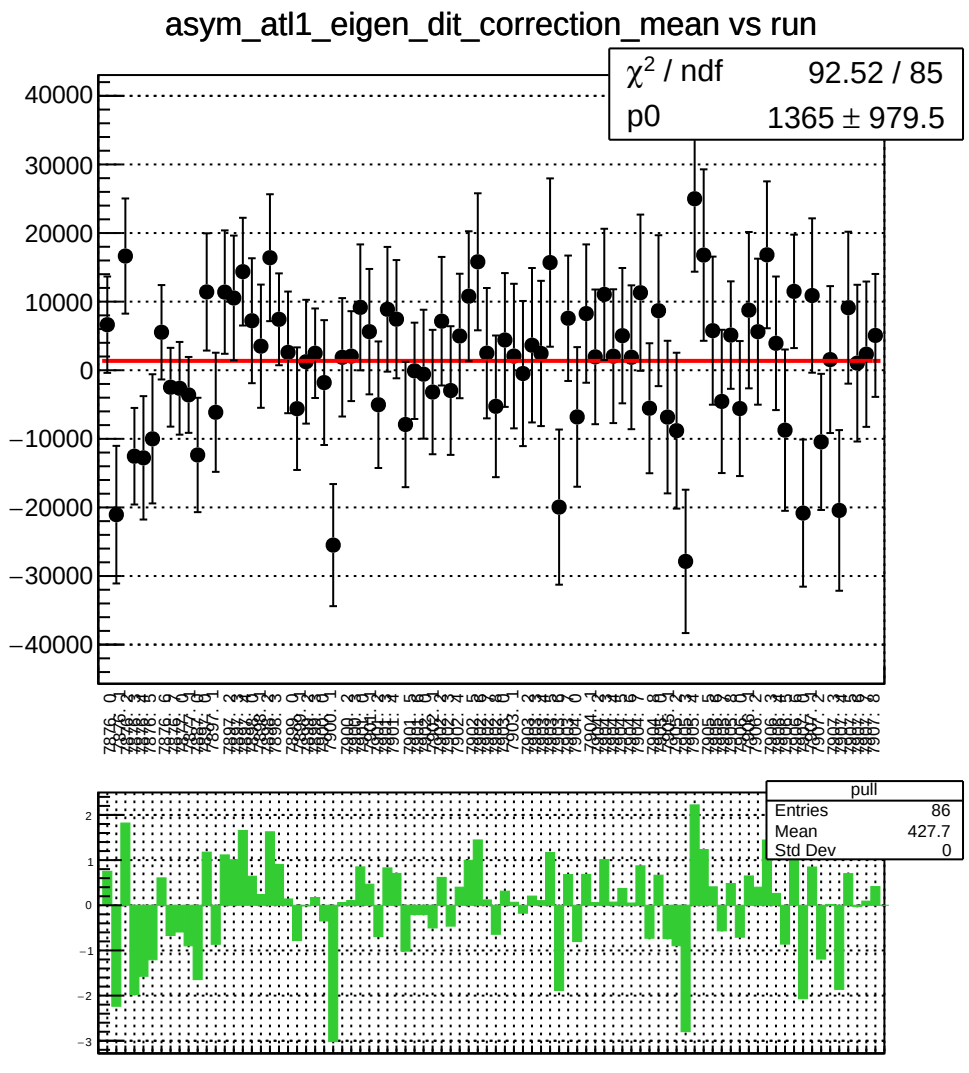

pull1D
Entries 86
Mean 0.003648
Std Dev 1.037

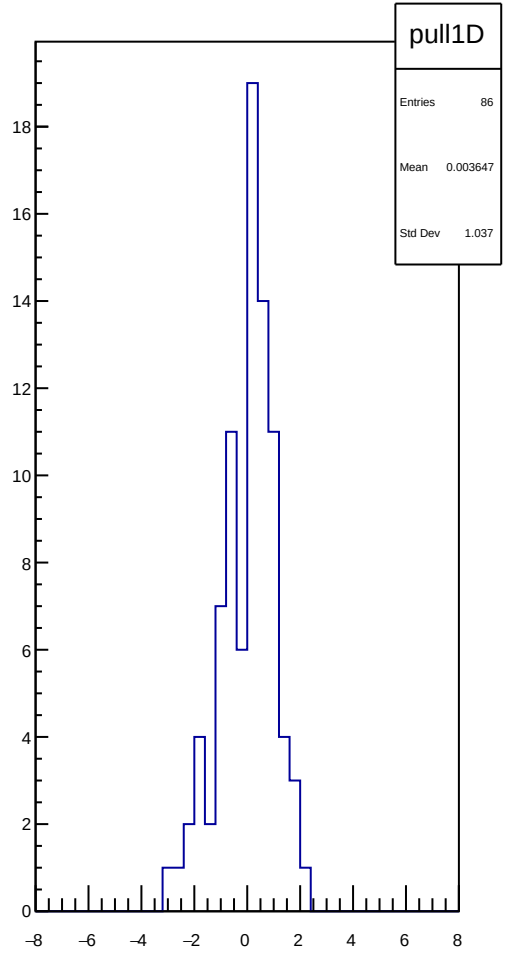

asym_atl1_dit_correction_rms vs run
χ² / ndf 3.289e+04 / 85
p0 891.1 ± 0.6926
1200
1100
1000
900
800
700
600

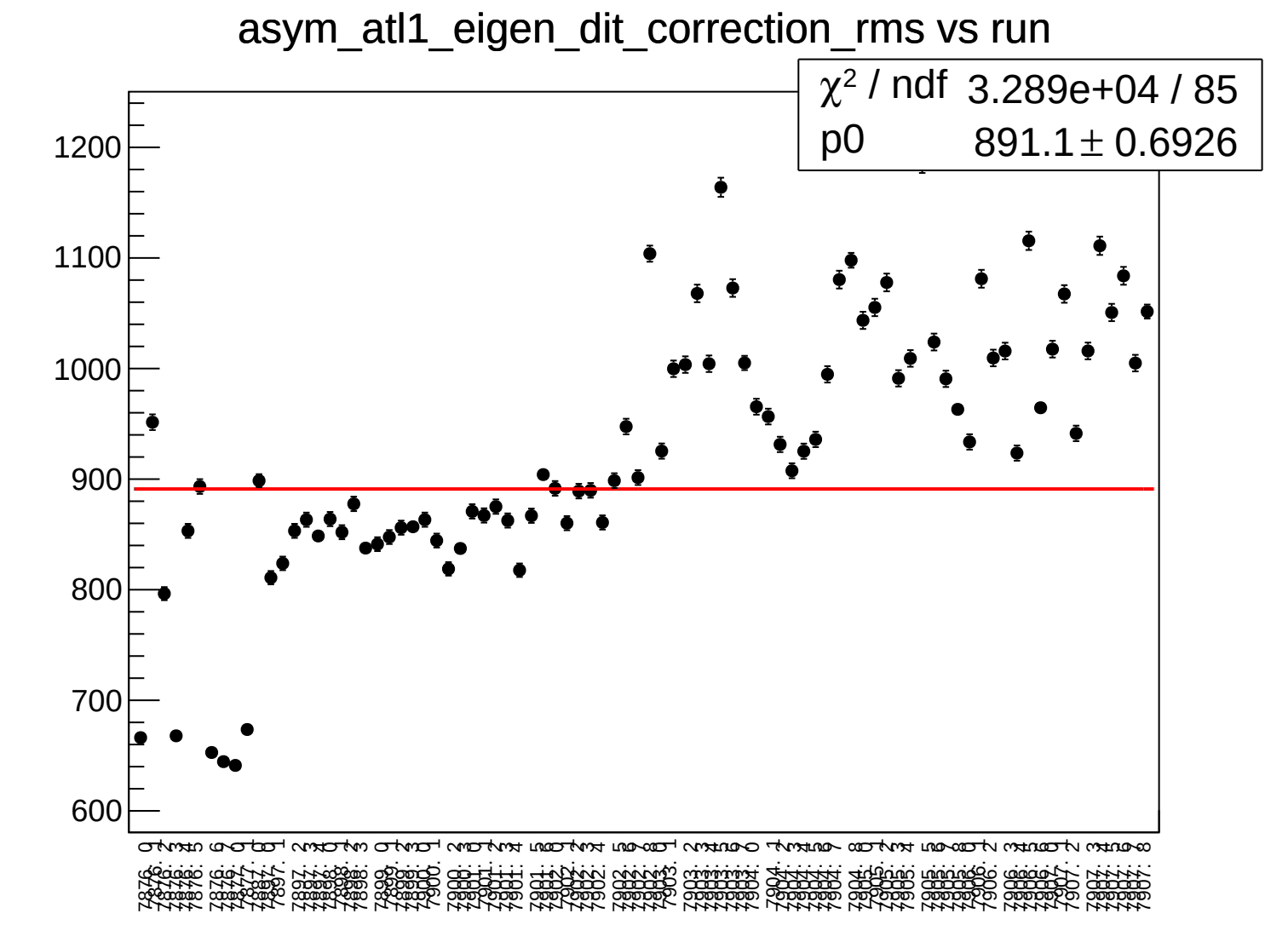

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 88.69 / 85
p0 2290 ± 2635
pull
Entries 86
Mean 445
Std Dev 0

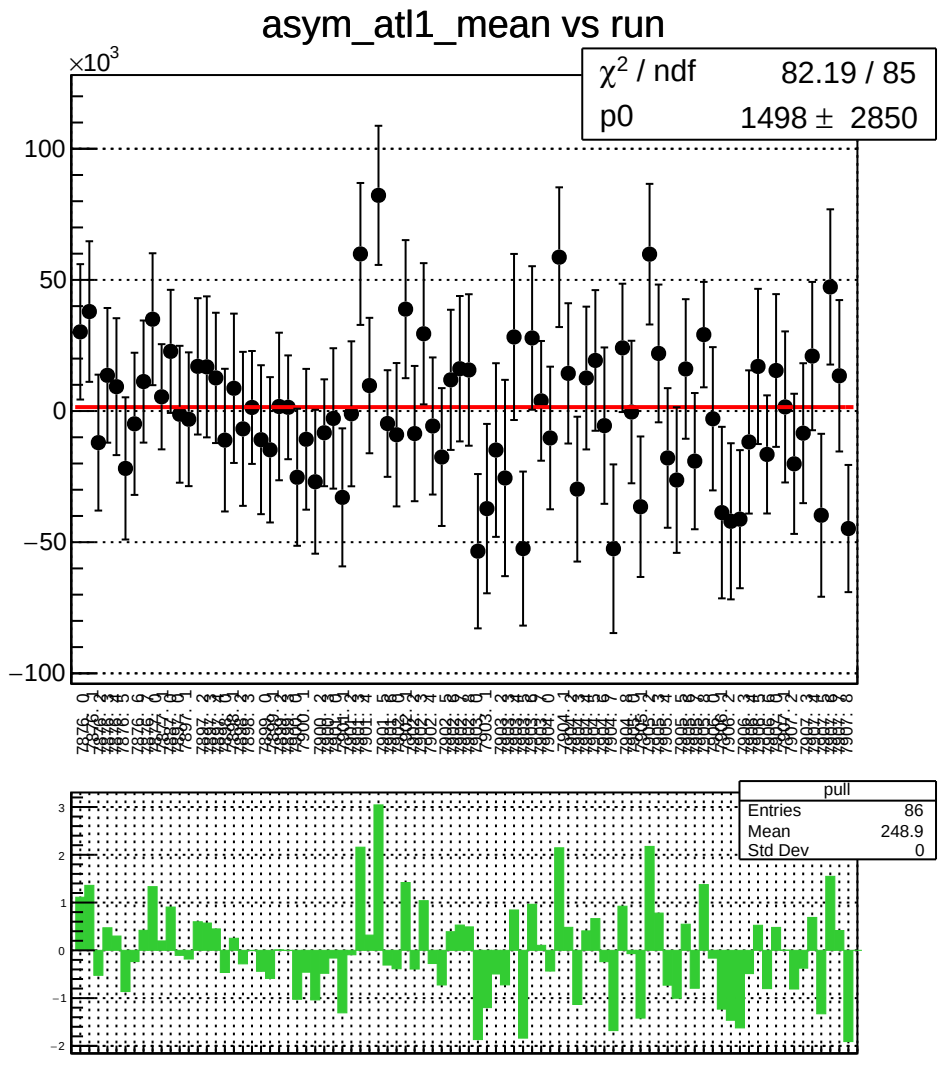

pull1D
Entries 86
Mean −0.009939
Std Dev 1.015

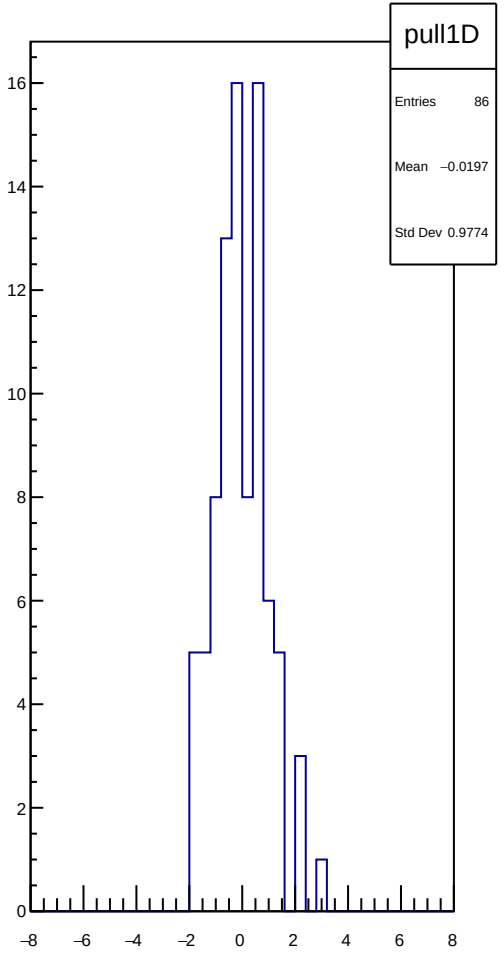

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 1469 / 85
p0 2420 ± 1.863
2900
2800
2700
2600
2500
2400
2300

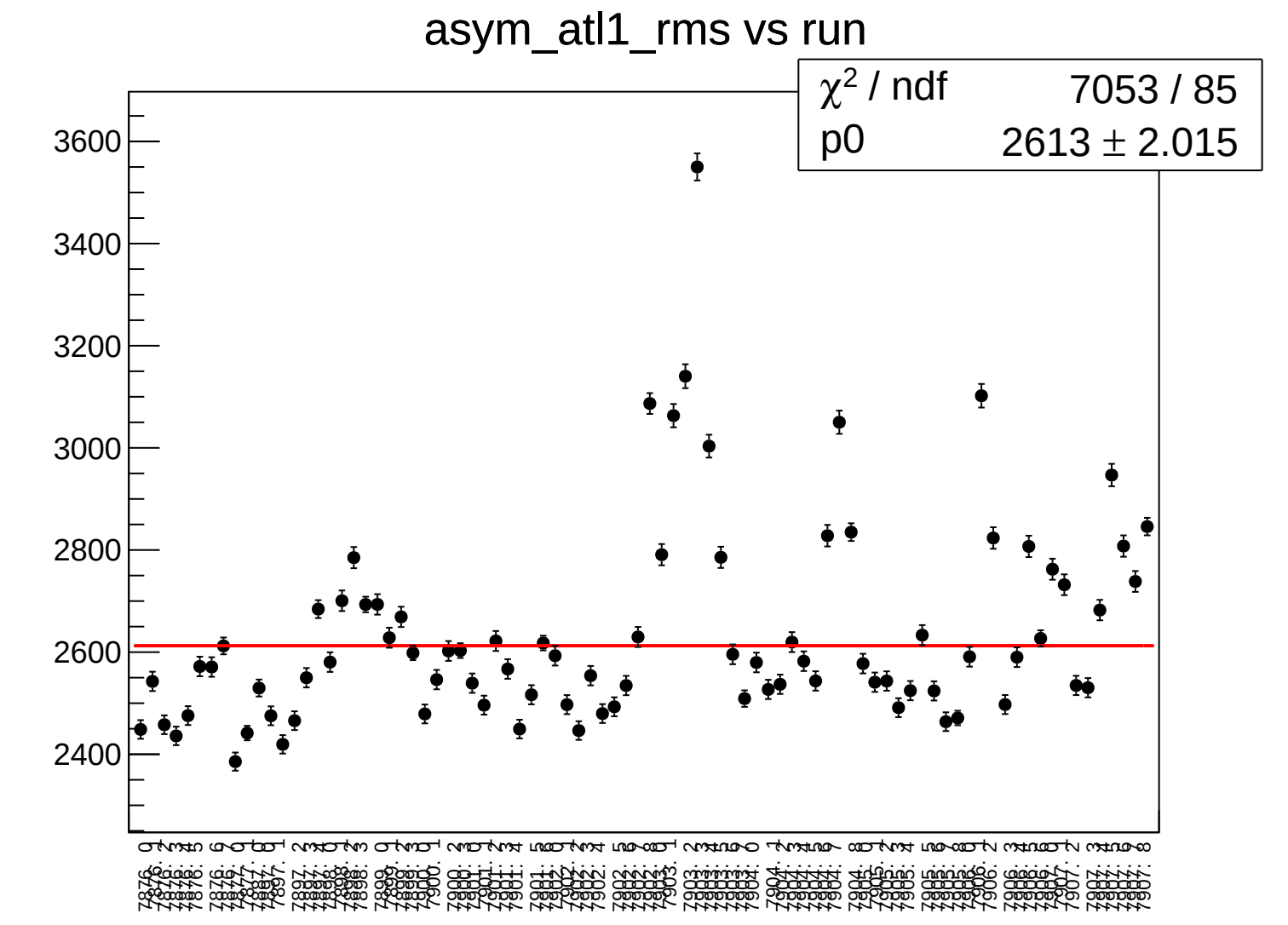

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 92.52 / 85
p0 1365 ± 979.5
pull
Entries 86
Mean 427.7
Std Dev 0

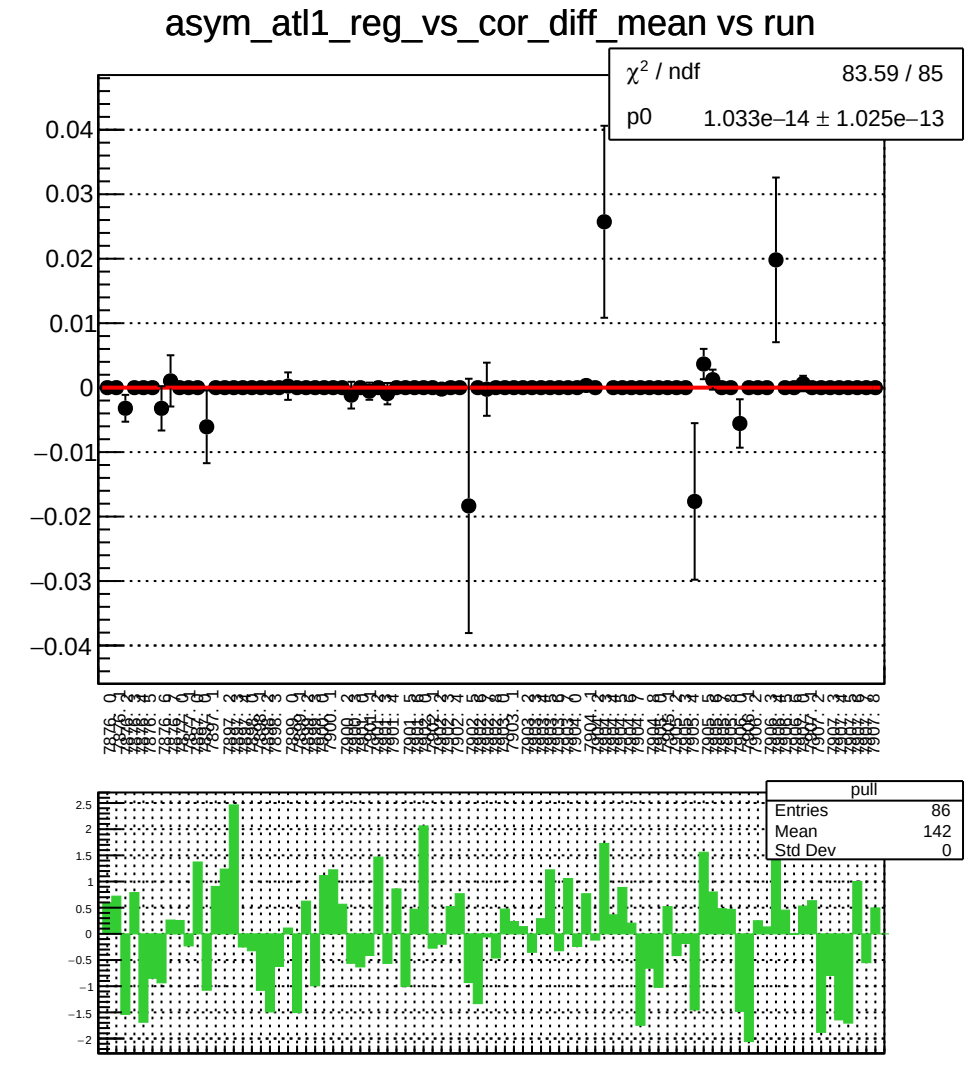

pull1D
Entries 86
Mean 0.003647
Std Dev 1.037

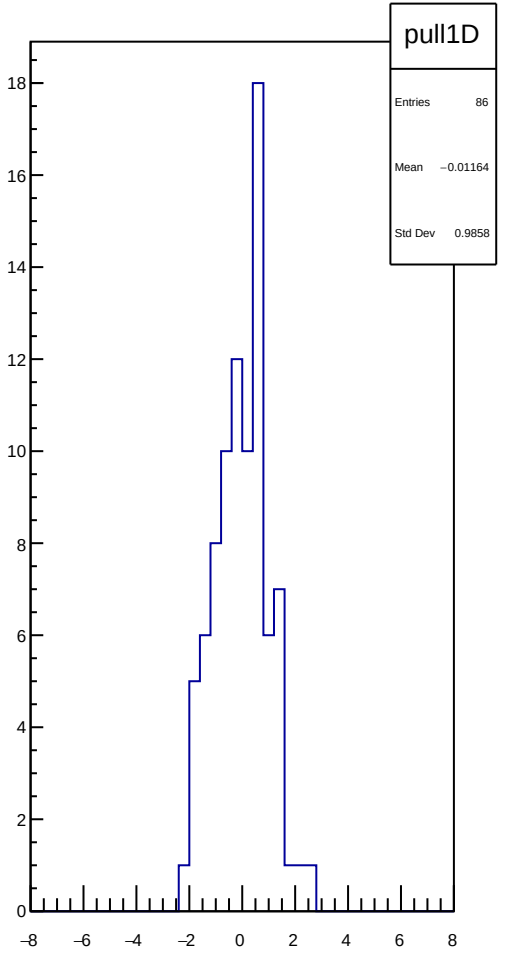

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 3.289e+04 / 85
p0 891.1 ± 0.6926
1200
1100
1000
900
800
700
600

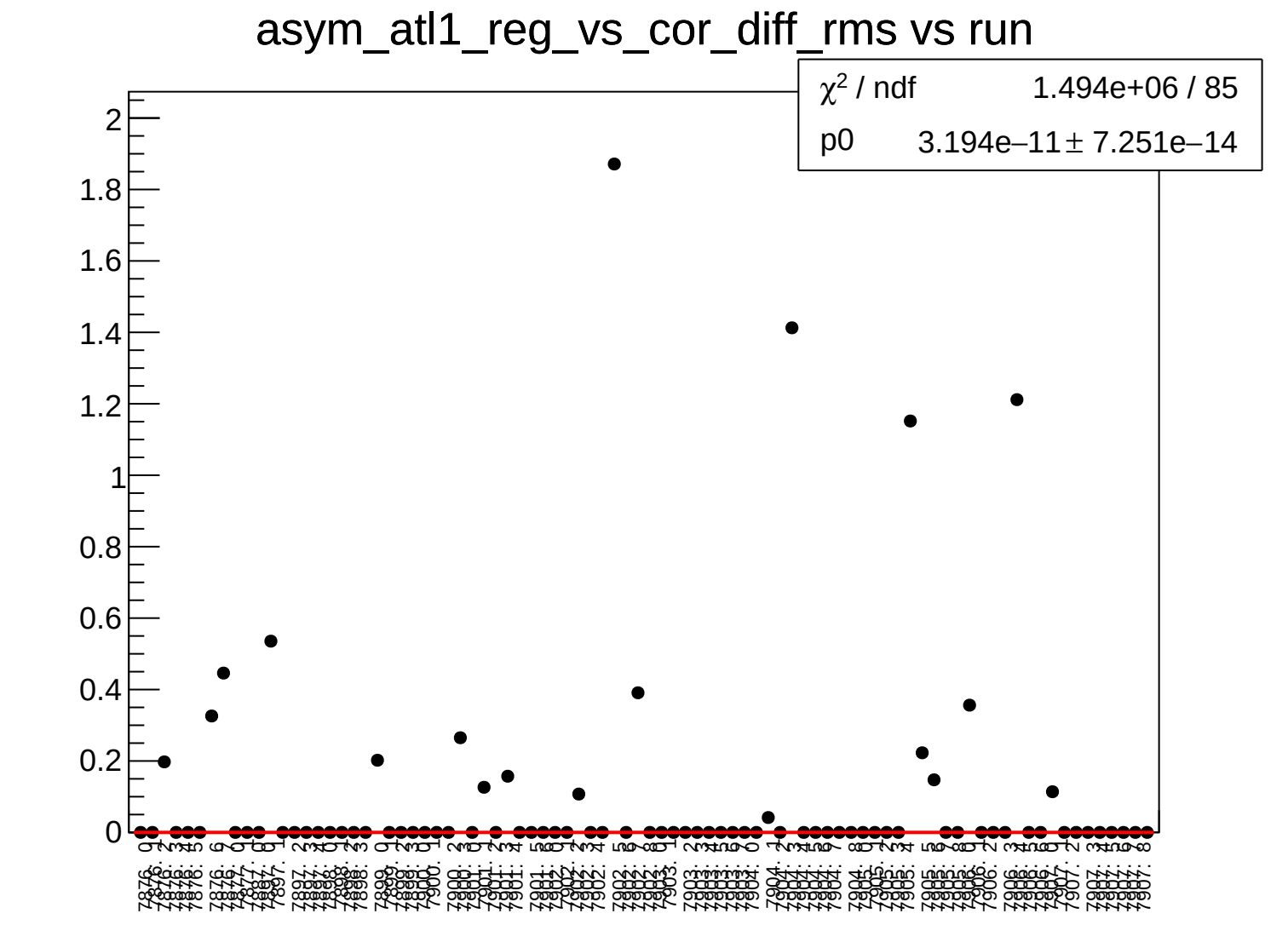

asym_atl1_mean vs run
×10^3
χ^2 / ndf 82.19 / 85
p0 1498 ± 2850
100
50
0
−50
−100
pull
Entries 86
Mean 248.9
Std Dev 0
3
2
1
0
−1
−2

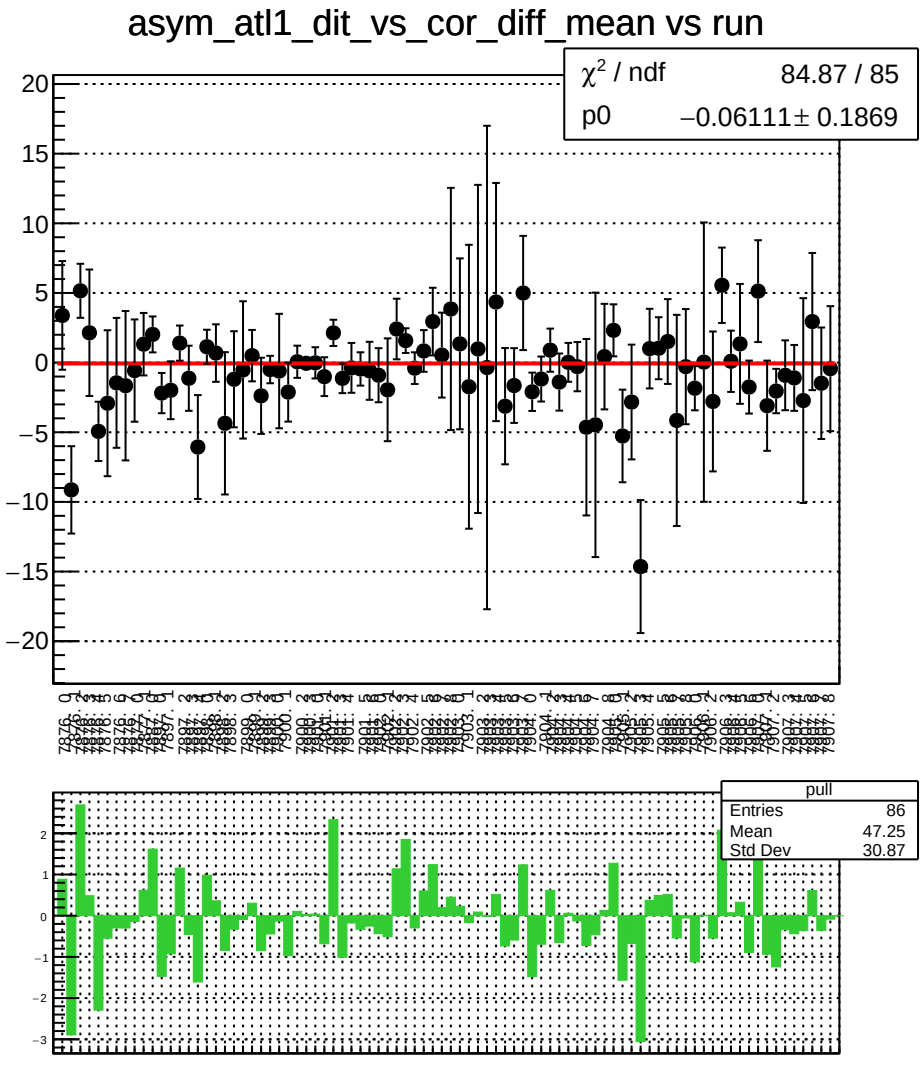

pull1D
Entries 86
Mean −0.0197
Std Dev 0.9774
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

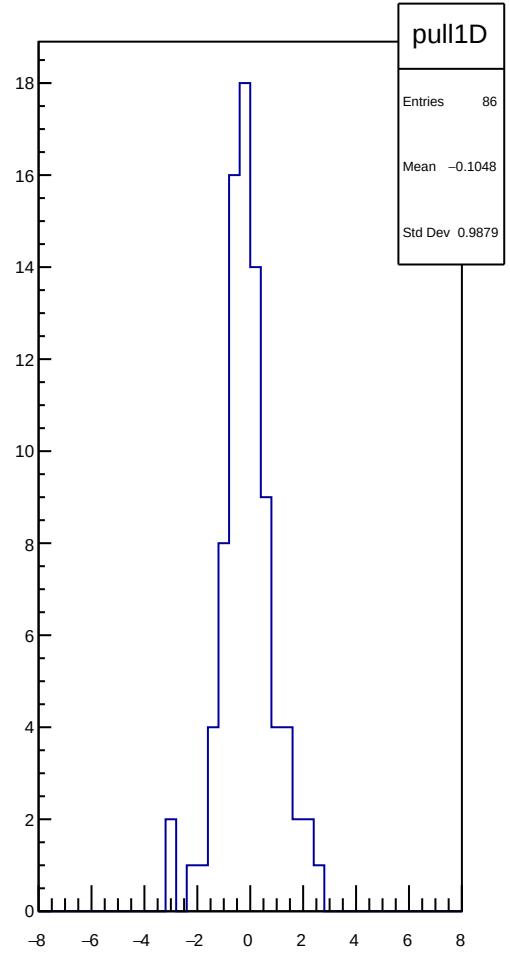

asym_atl1_rms vs run
χ^2 / ndf 7053 / 85
p0 2613 ± 2.015
3600
3400
3200
3000
2800
2600
2400

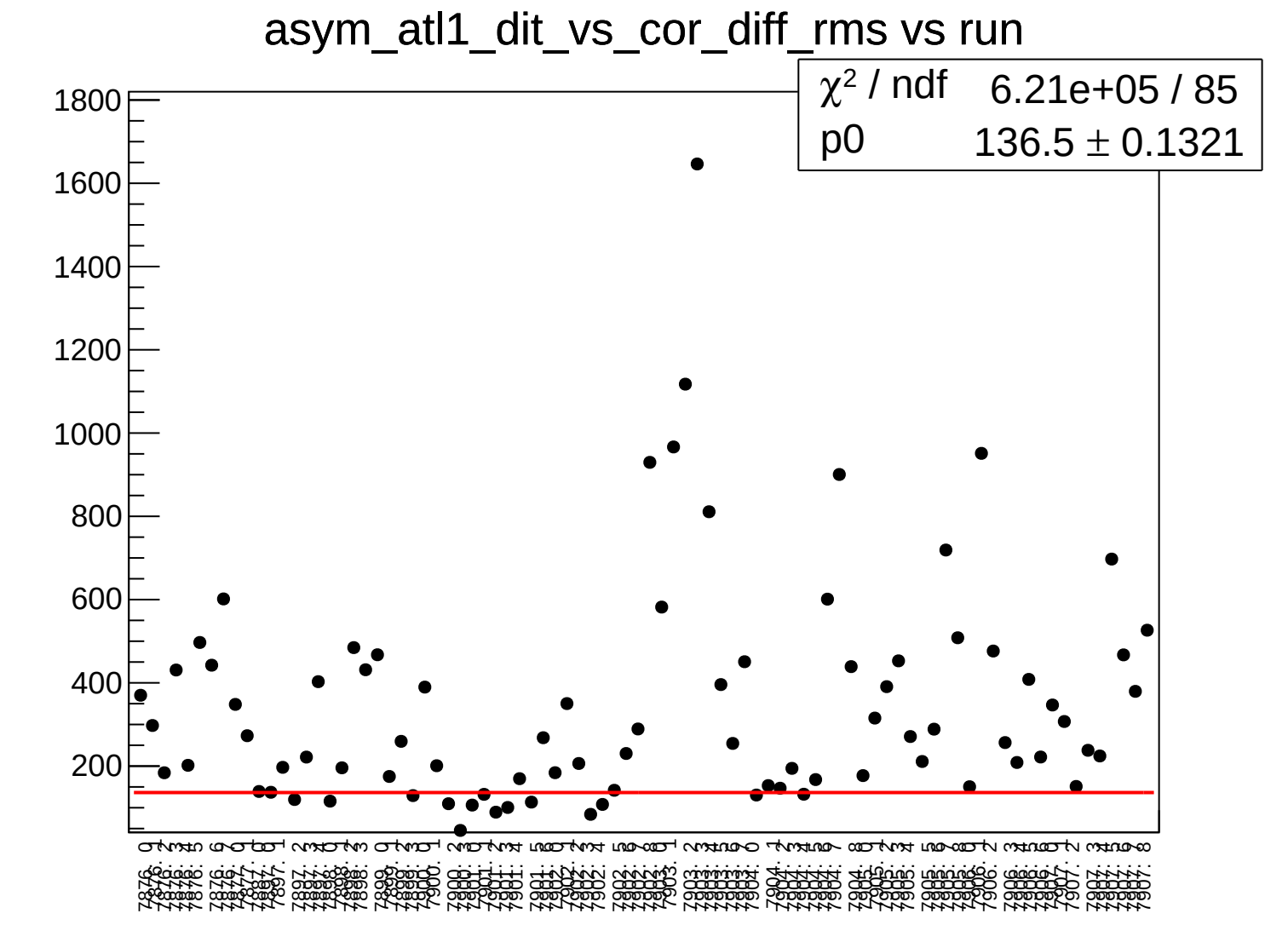

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 83.59 / 85
p0 1.033e−14 ± 1.025e−13
pull
Entries 86
Mean 142
Std Dev 0

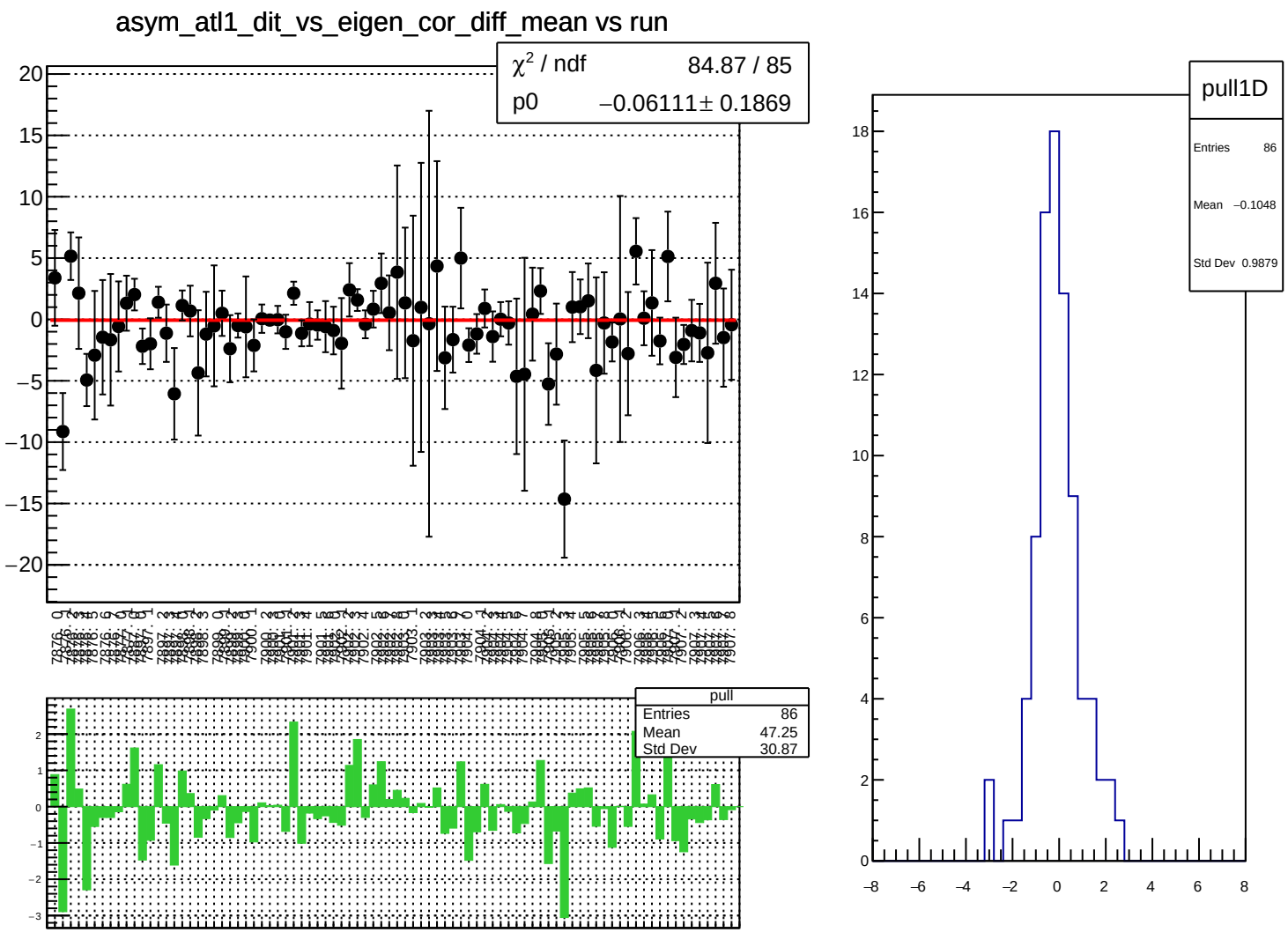

pull1D
Entries 86
Mean −0.01164
Std Dev 0.9858

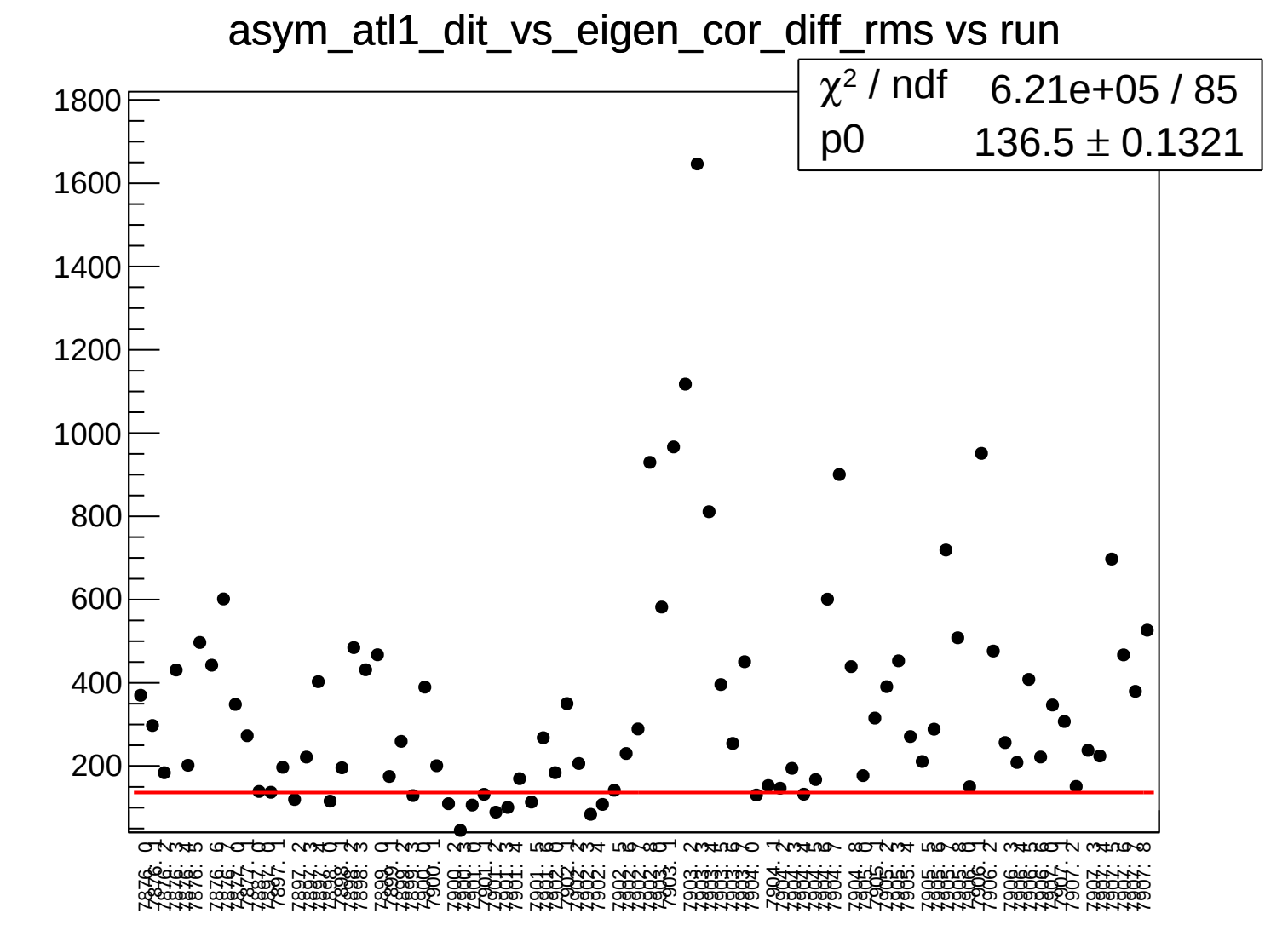

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.494e+06 / 85
p0 3.194e−11 ± 7.251e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

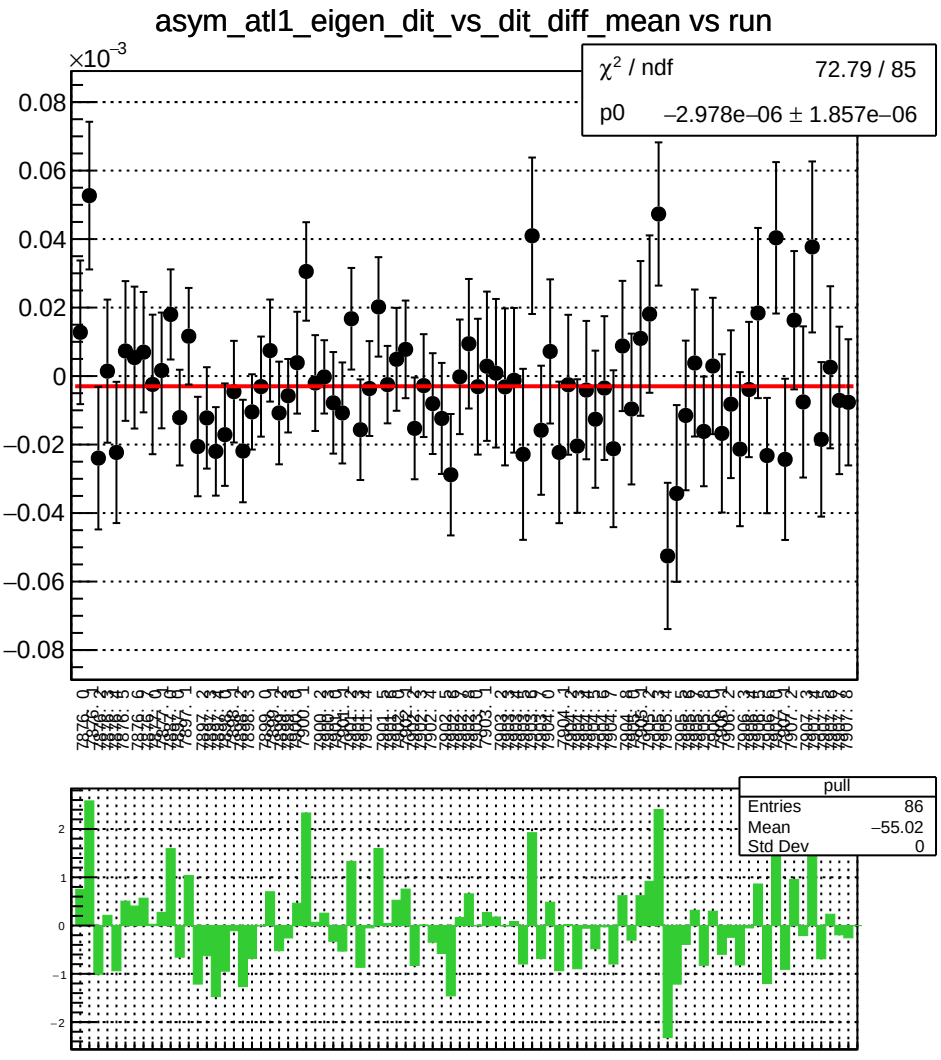

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 84.87 / 85
p0 −0.06111 ± 0.1869
pull
Entries 86
Mean 47.25
Std Dev 30.87

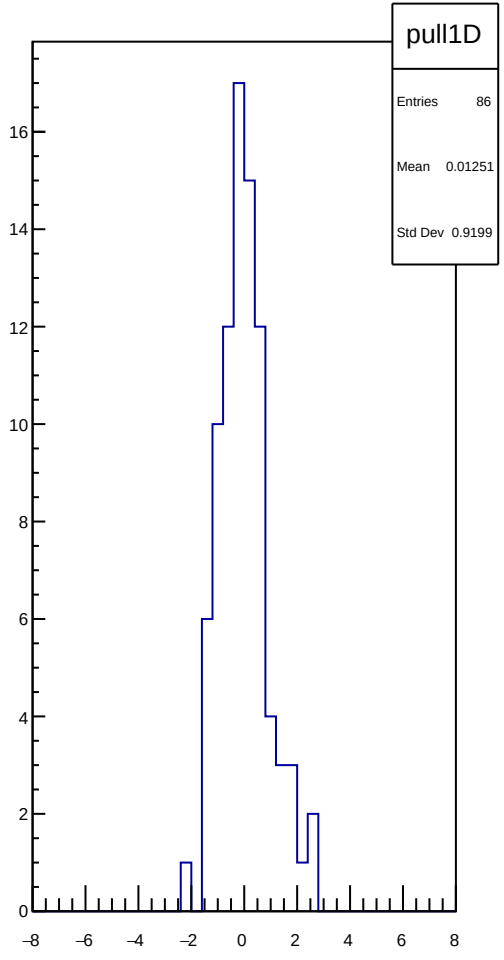

pull1D
Entries 86
Mean −0.1048
Std Dev 0.9879

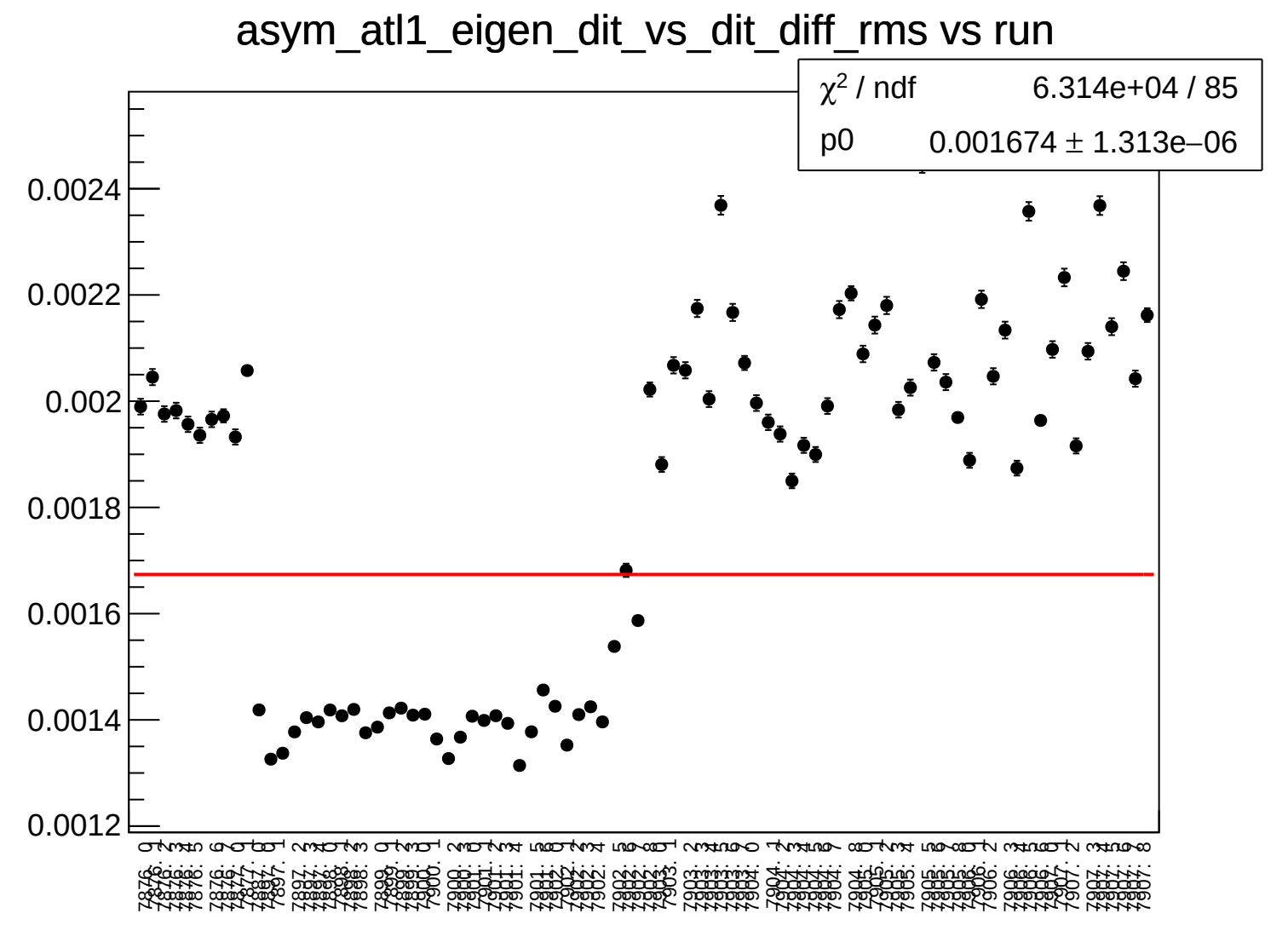

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 6.21e+05 / 85
p0 136.5 ± 0.1321
1800
1600
1400
1200
1000
800
600
400
200

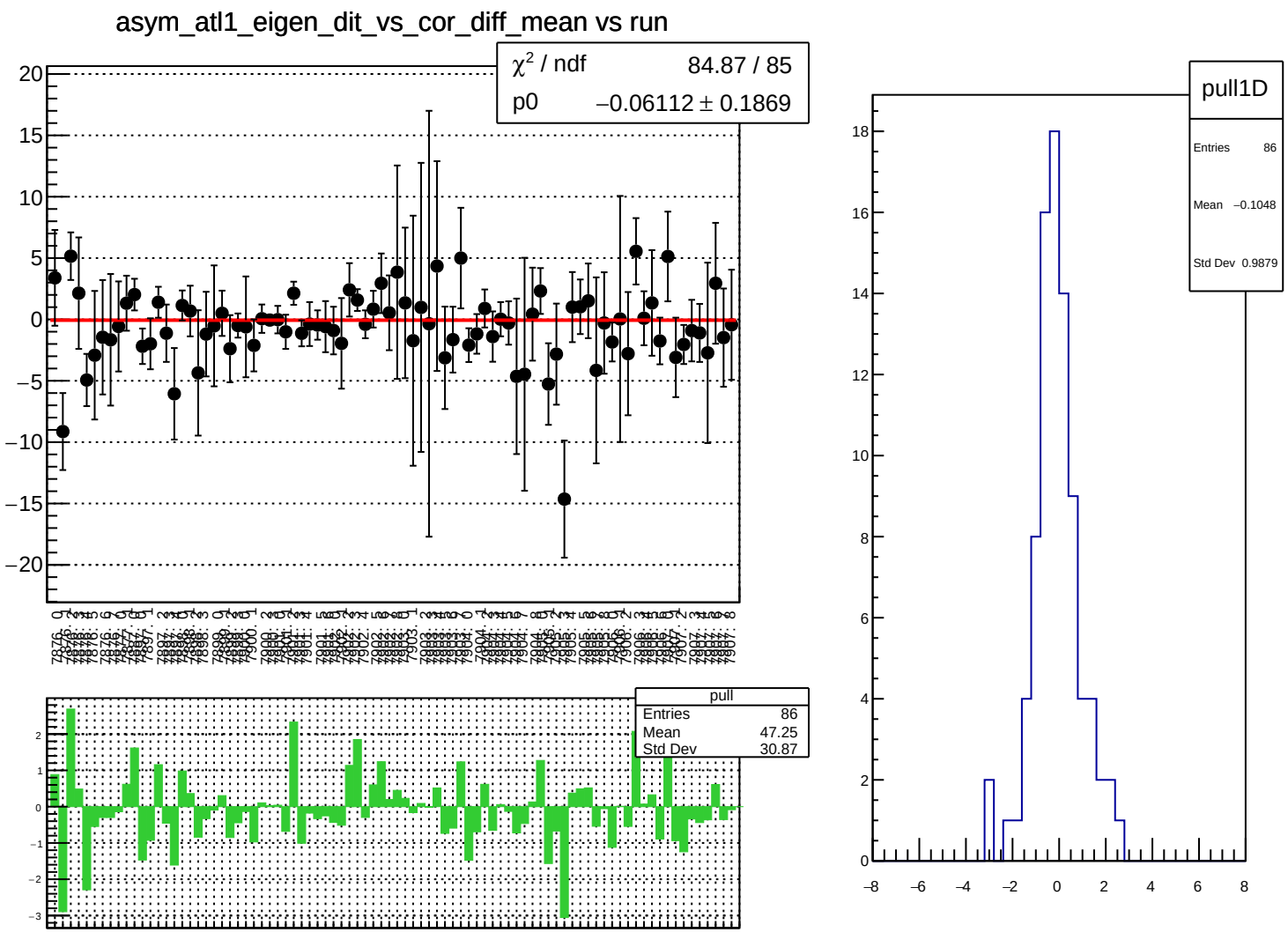

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.87 / 85
p0 −0.06111 ± 0.1869
pull
Entries 86
Mean 47.25
Std Dev 30.87
pull1D
Entries 86
Mean −0.1048
Std Dev 0.9879

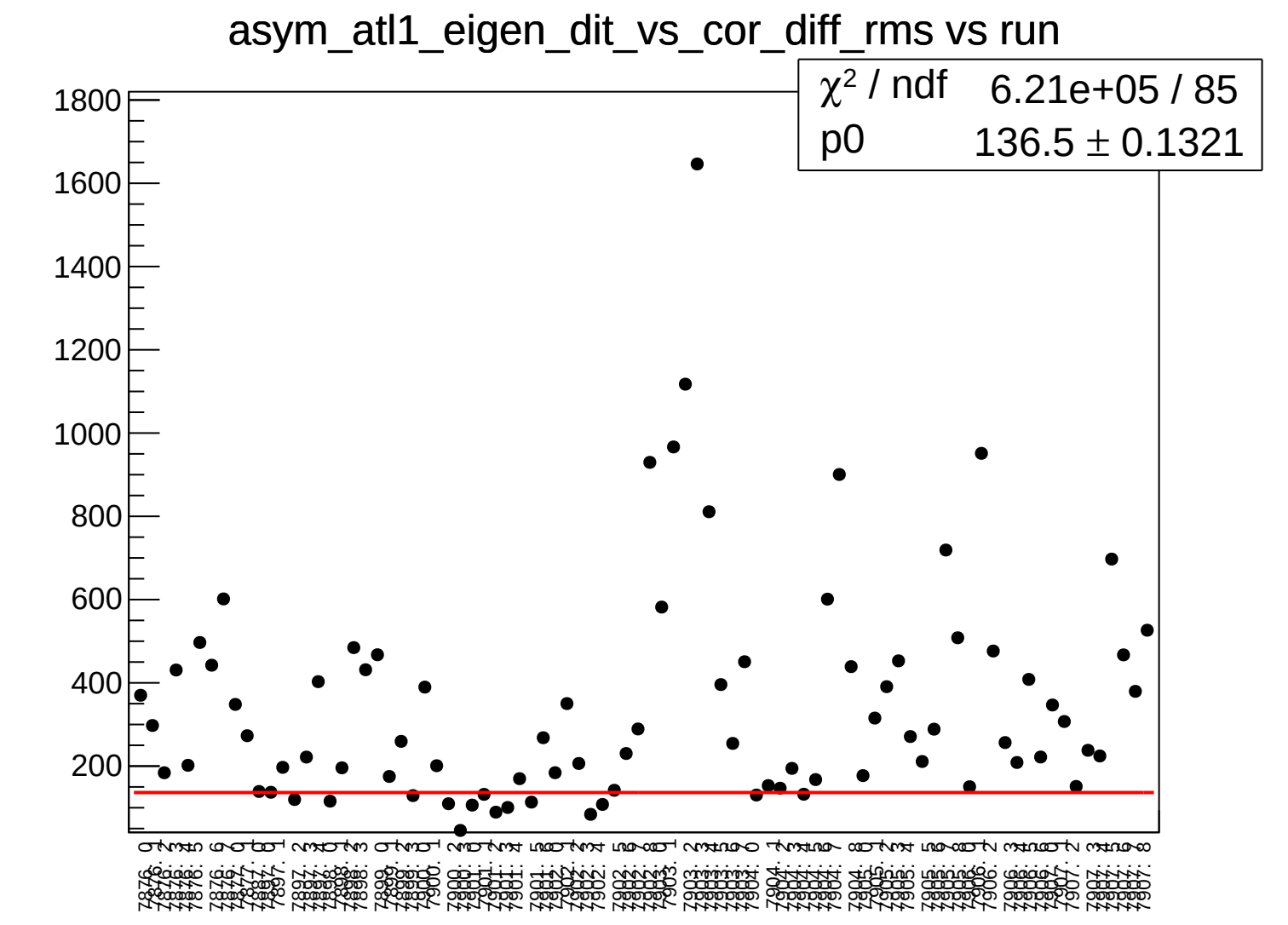

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.21e+05 / 85
p0 136.5 ± 0.1321
1800
1600
1400
1200
1000
800
600
400
200

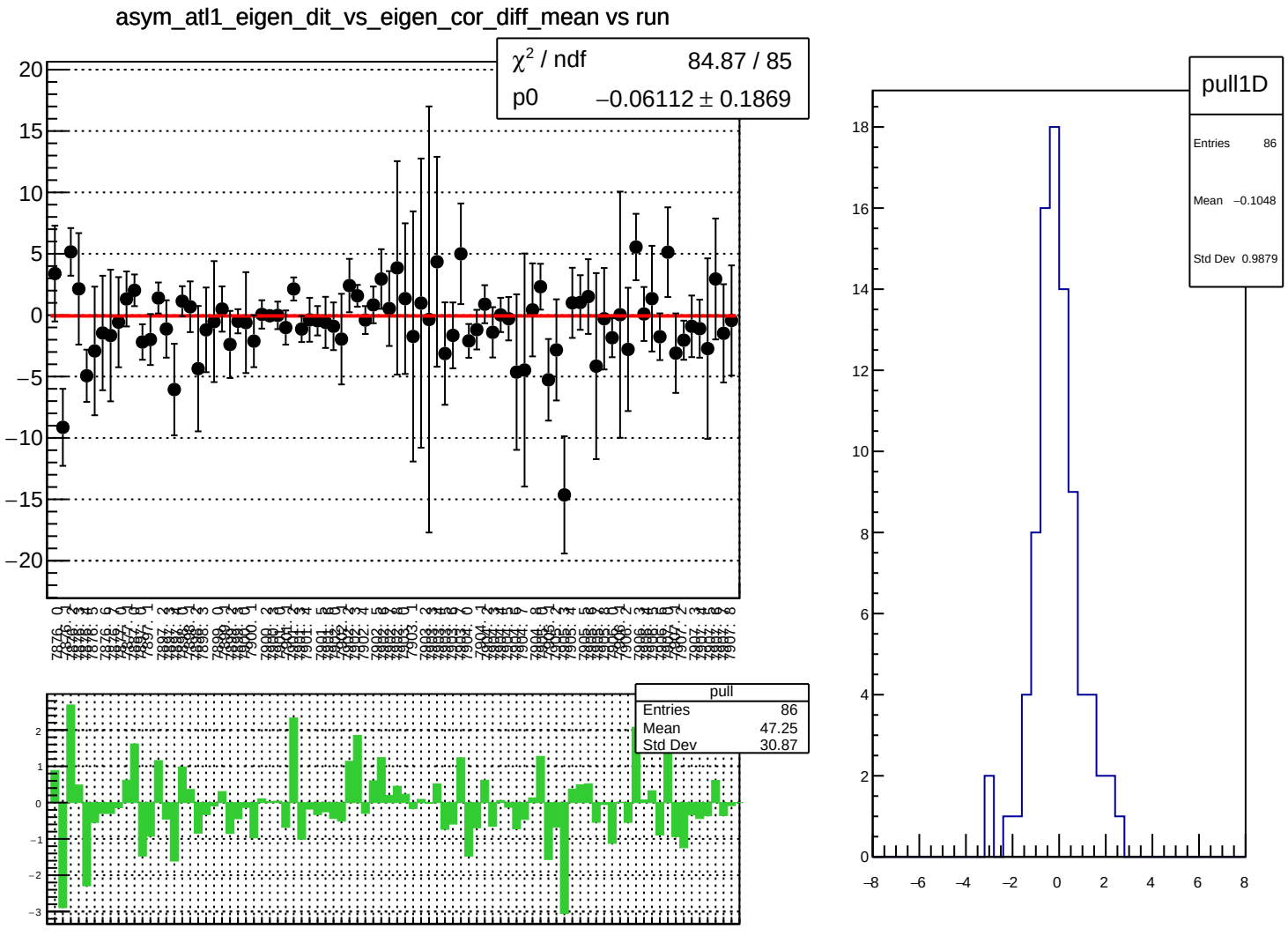

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.79 / 85
p0 −2.978e−06 ± 1.857e−06
pull
Entries 86
Mean −55.02
Std Dev 0

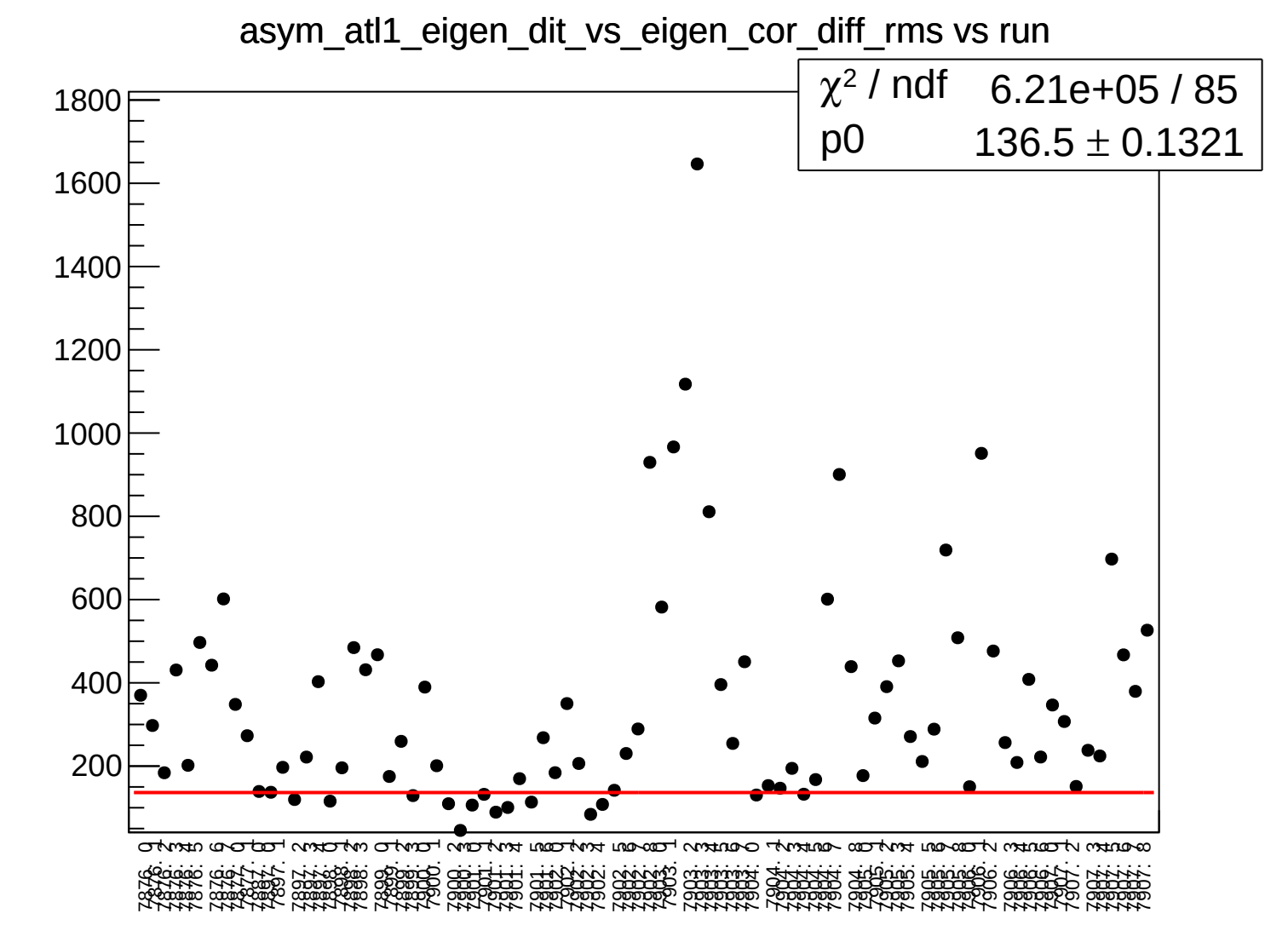

pull1D
Entries 86
Mean 0.01251
Std Dev 0.9199

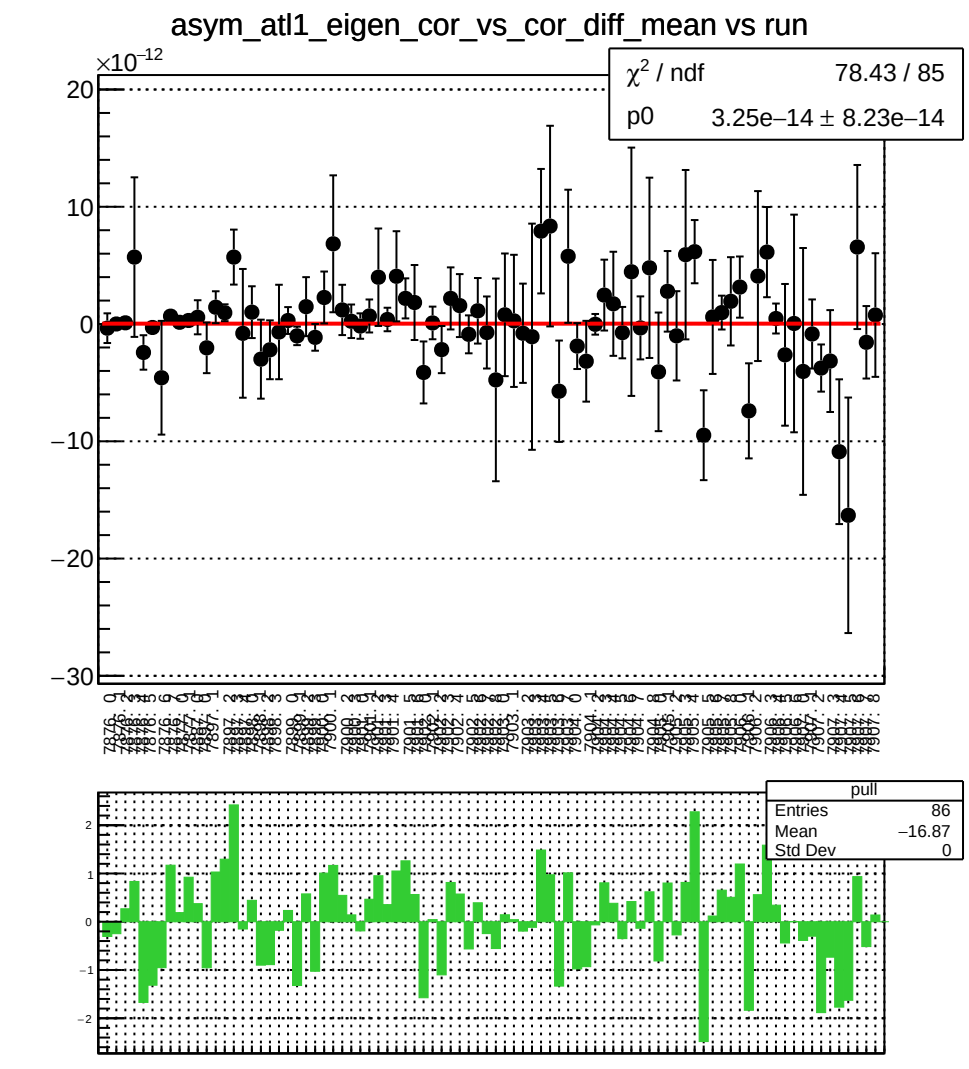

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.314e+04 / 85
p0 0.001674 ± 1.313e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

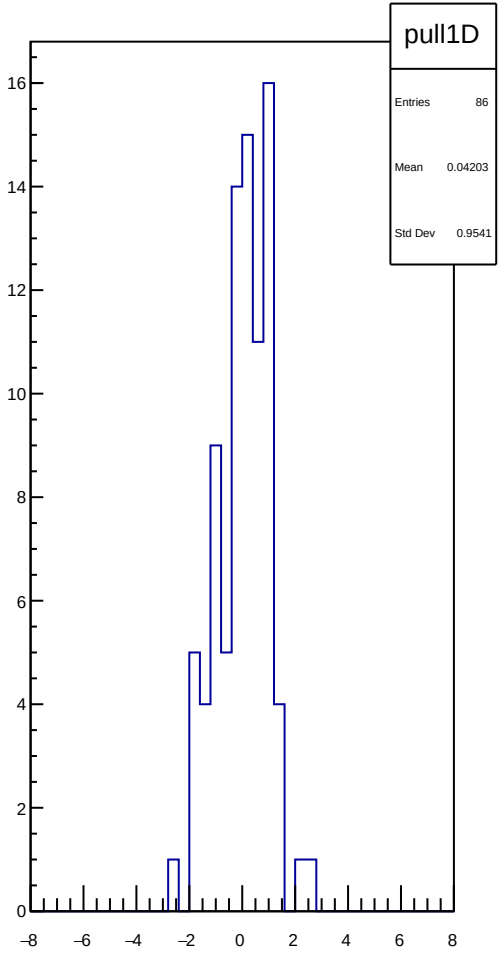

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.87 / 85
p0 −0.06112 ± 0.1869
pull
Entries 86
Mean 47.25
Std Dev 30.87
pull1D
Entries 86
Mean −0.1048
Std Dev 0.9879

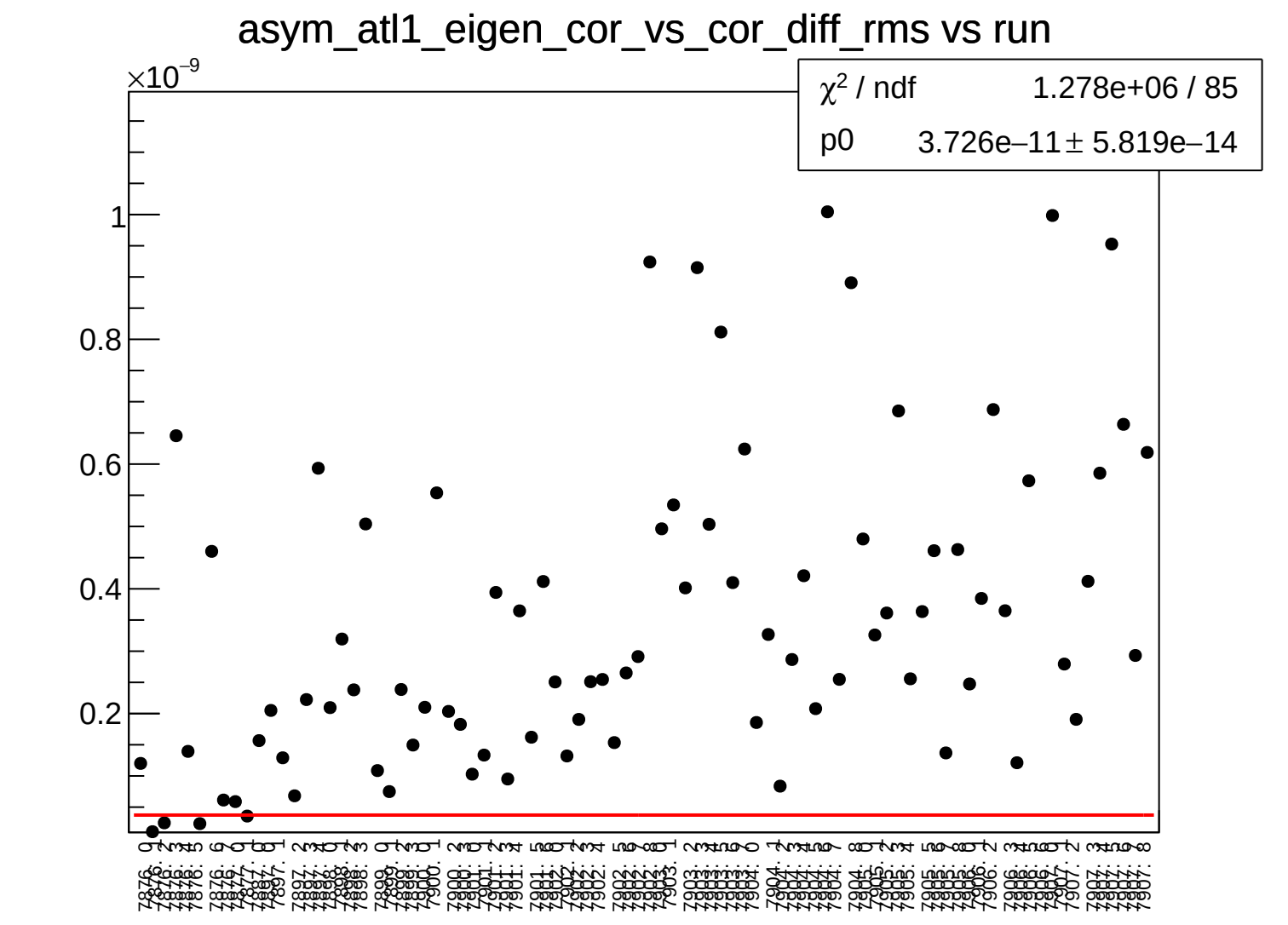

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.21e+05 / 85
p0 136.5 ± 0.1321
1800
1600
1400
1200
1000
800
600
400
200

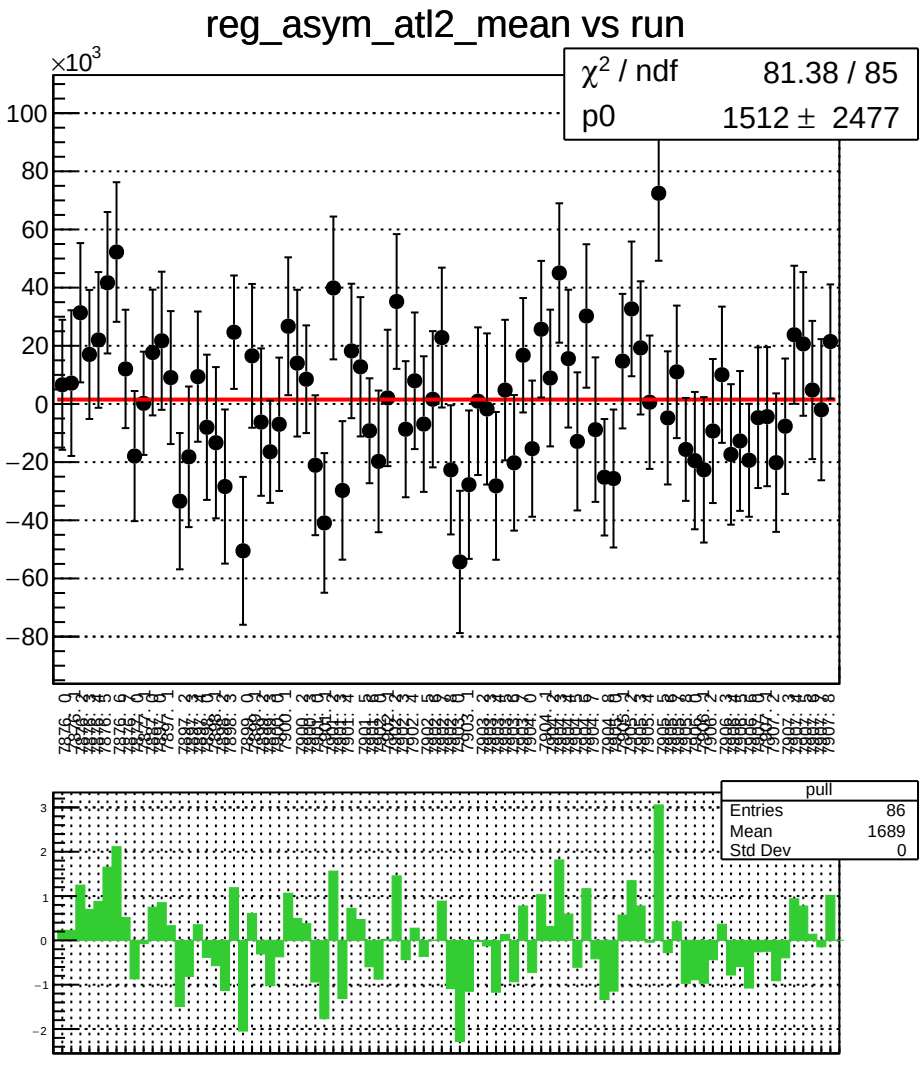

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.87 / 85
p0 −0.06112 ± 0.1869
pull
Entries 86
Mean 47.25
Std Dev 30.87
pull1D
Entries 86
Mean −0.1048
Std Dev 0.9879

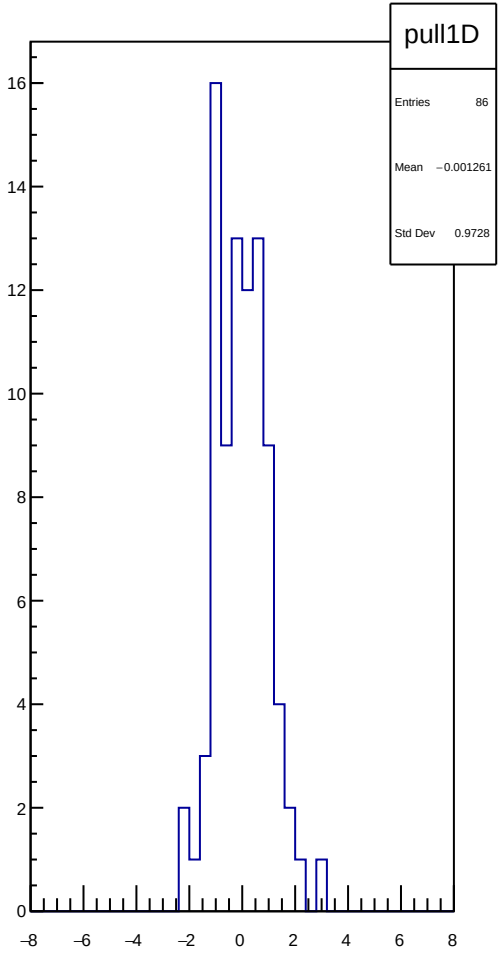

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.21e+05 / 85
p0 136.5 ± 0.1321
1800
1600
1400
1200
1000
800
600
400
200

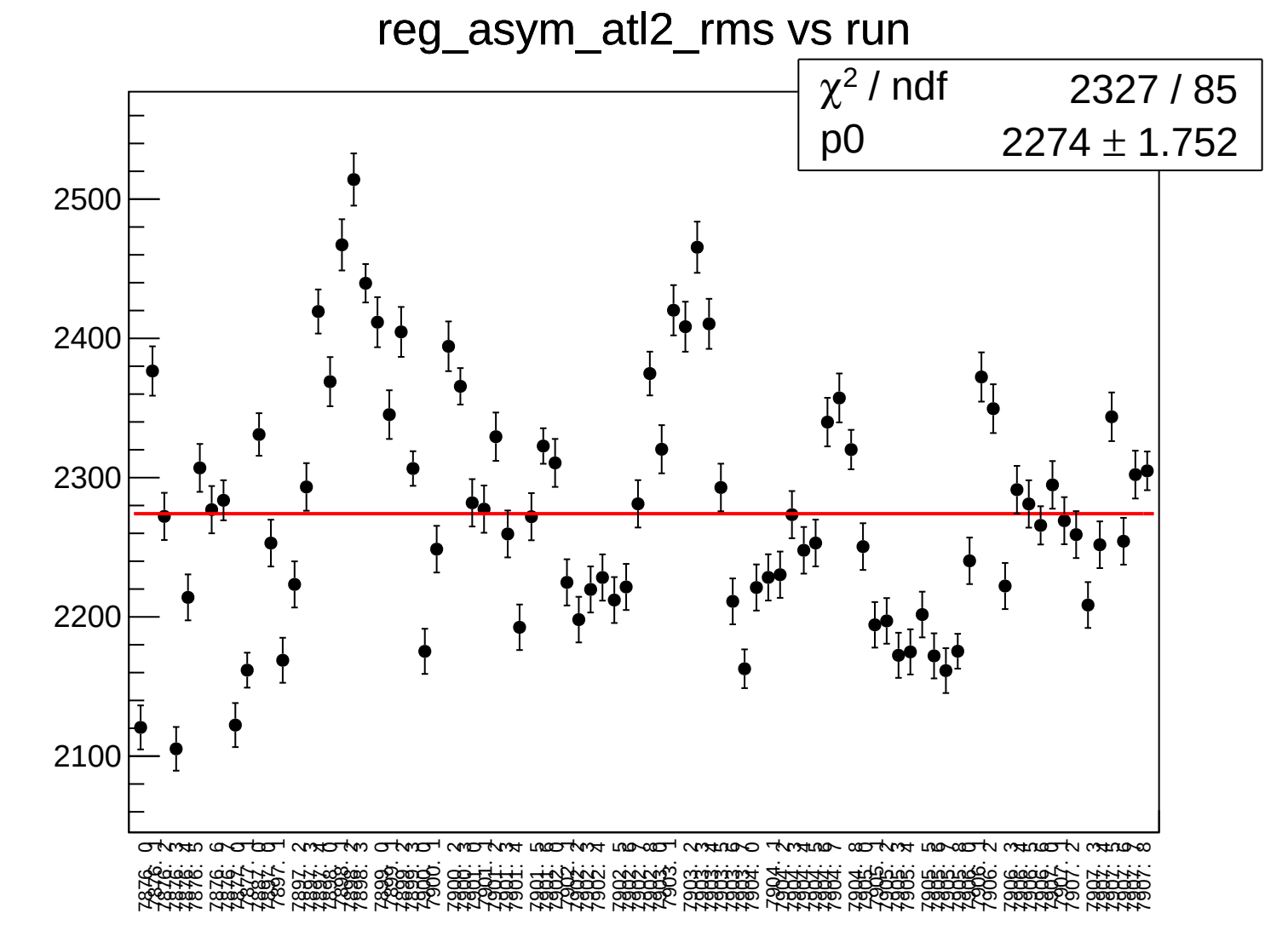

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.43 / 85
p0 3.25e−14 ± 8.23e−14
pull
Entries 86
Mean −16.87
Std Dev 0

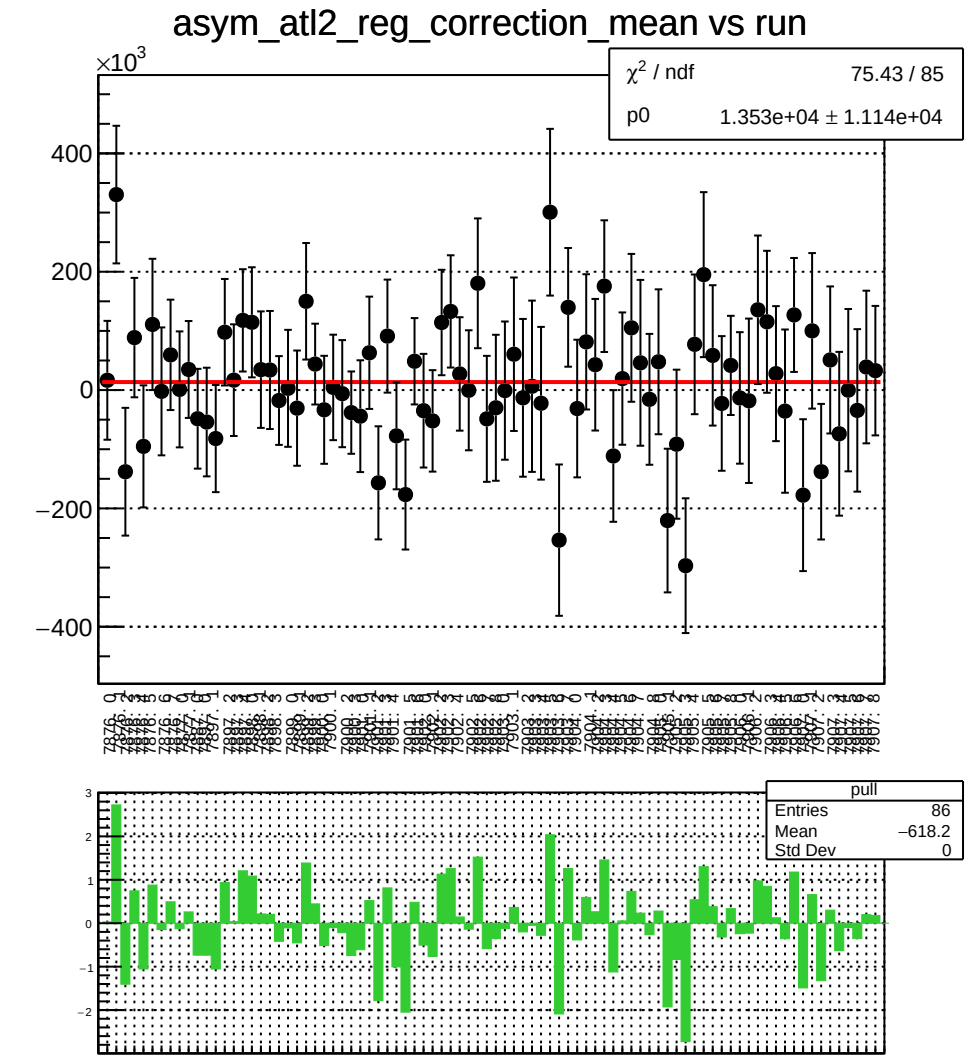

pull1D
Entries 86
Mean 0.04203
Std Dev 0.9541

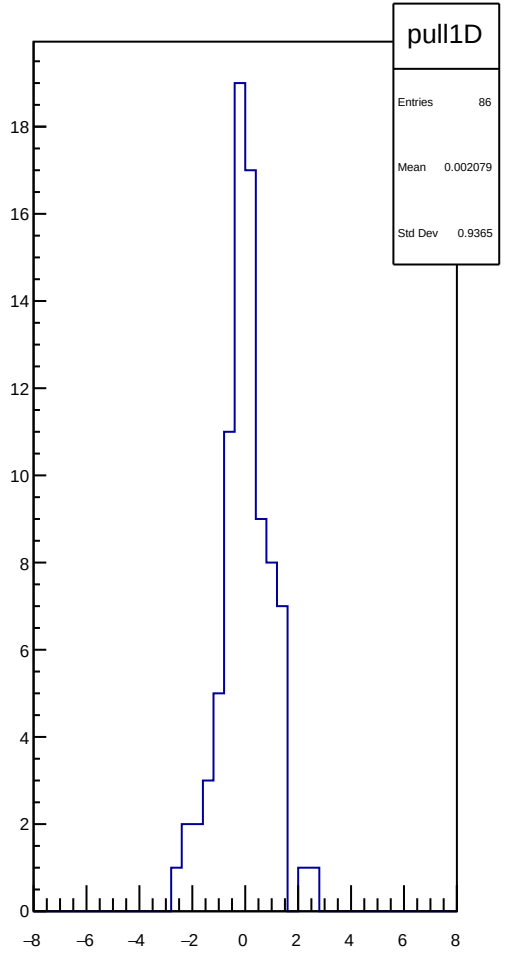

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.278e+06 / 85
p0 3.726e−11 ± 5.819e−14
1
0.8
0.6
0.4
0.2

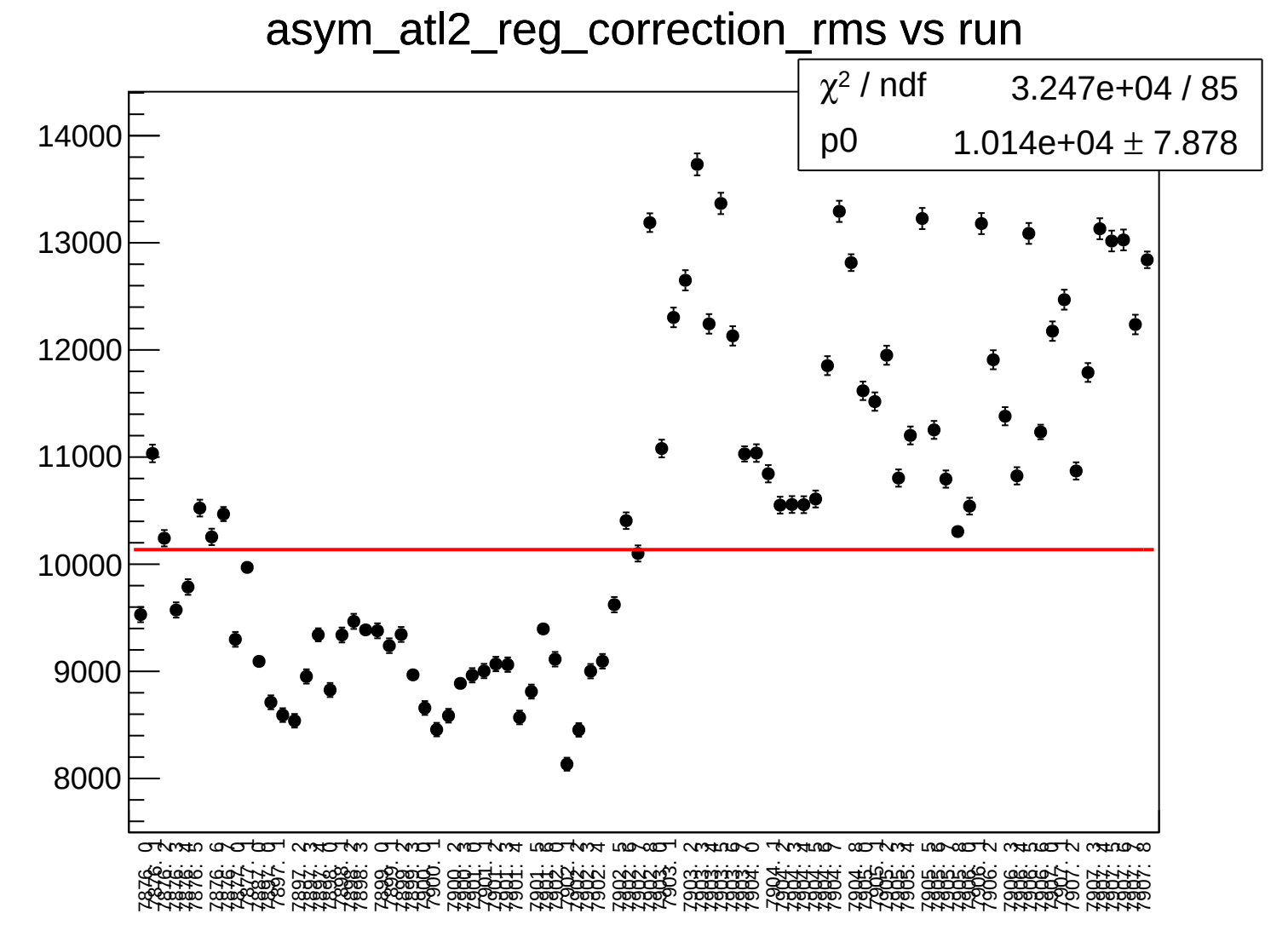

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 81.38 / 85
p0 1512 ± 2477
pull
Entries 86
Mean 1689
Std Dev 0

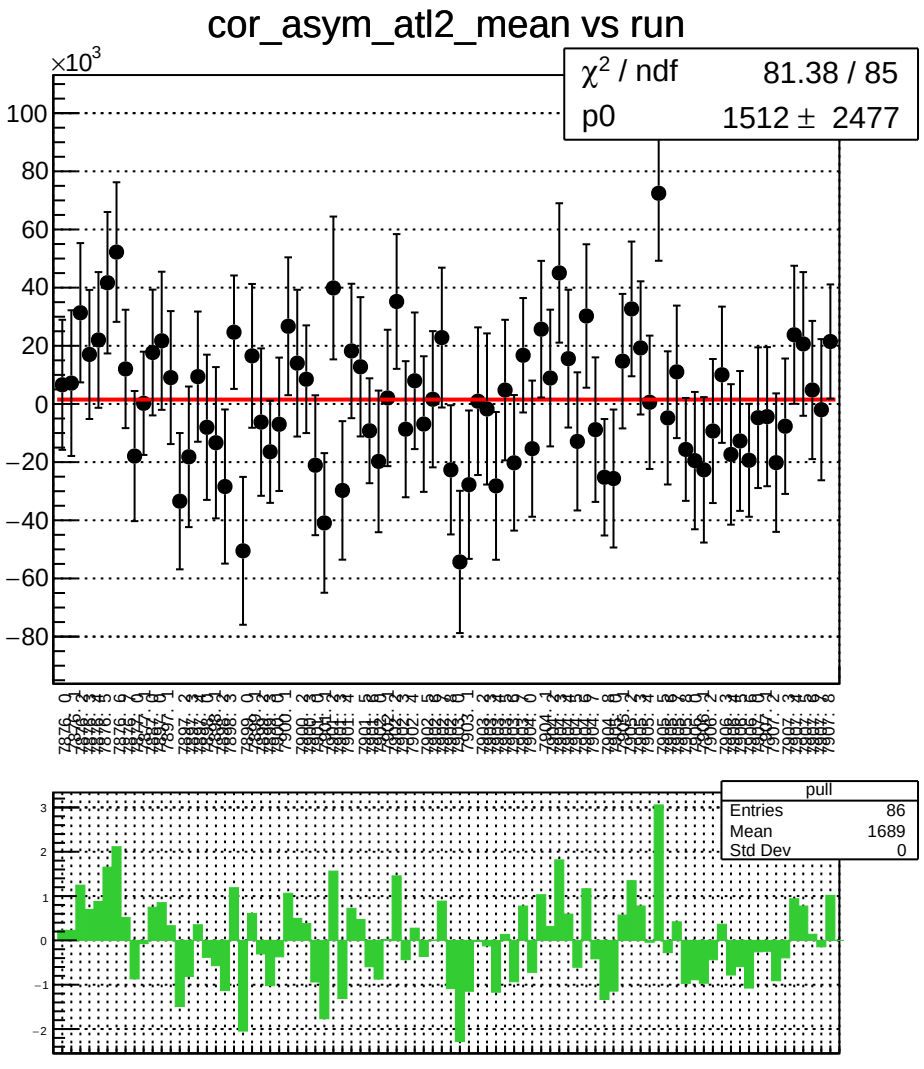

pull1D
Entries 86
Mean −0.001261
Std Dev 0.9728

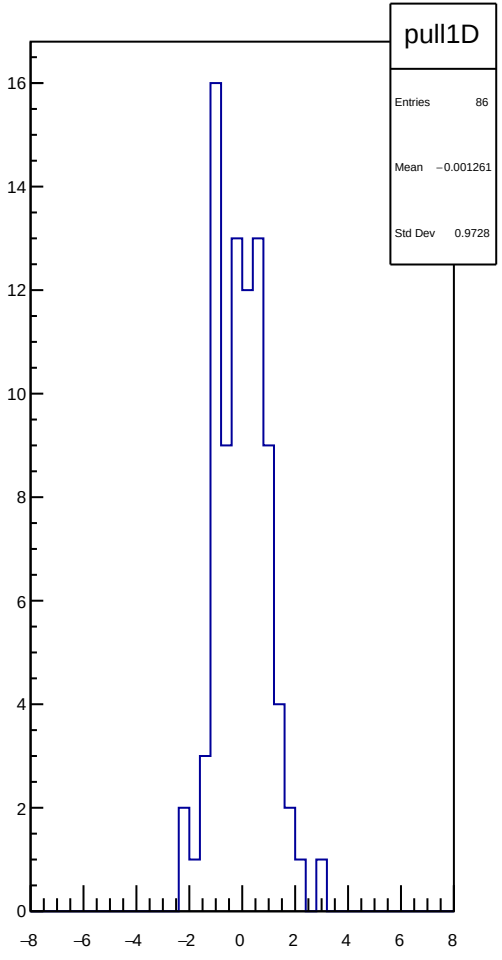

reg_asym_atl2_rms vs run
χ² / ndf 2327 / 85
p0 2274 ± 1.752
2500
2400
2300
2200
2100

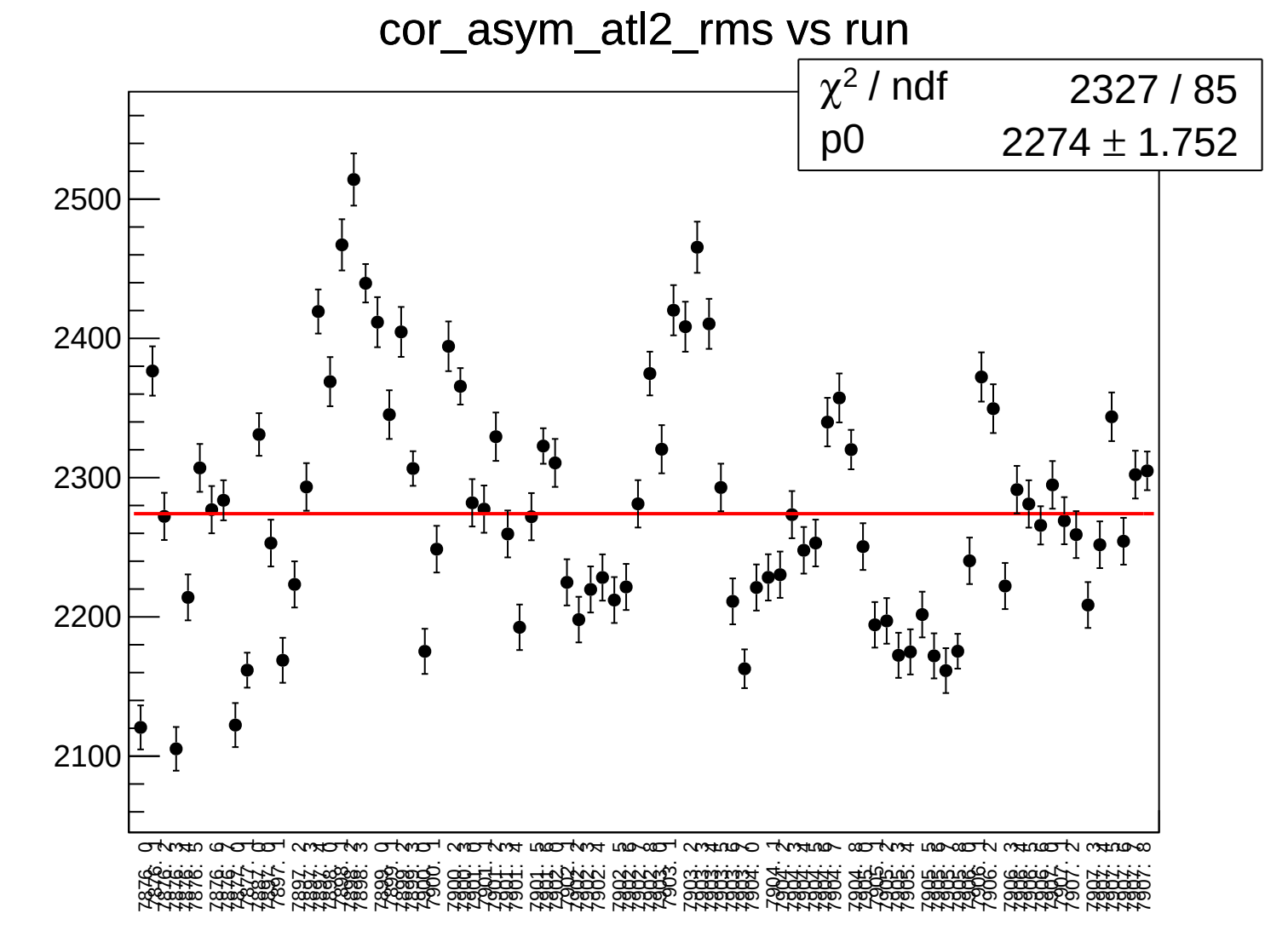

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 75.43 / 85
p0 1.353e+04 ± 1.114e+04
400
200
0
−200
−400
pull
Entries 86
Mean −618.2
Std Dev 0
3
2
1
0
−1
−2

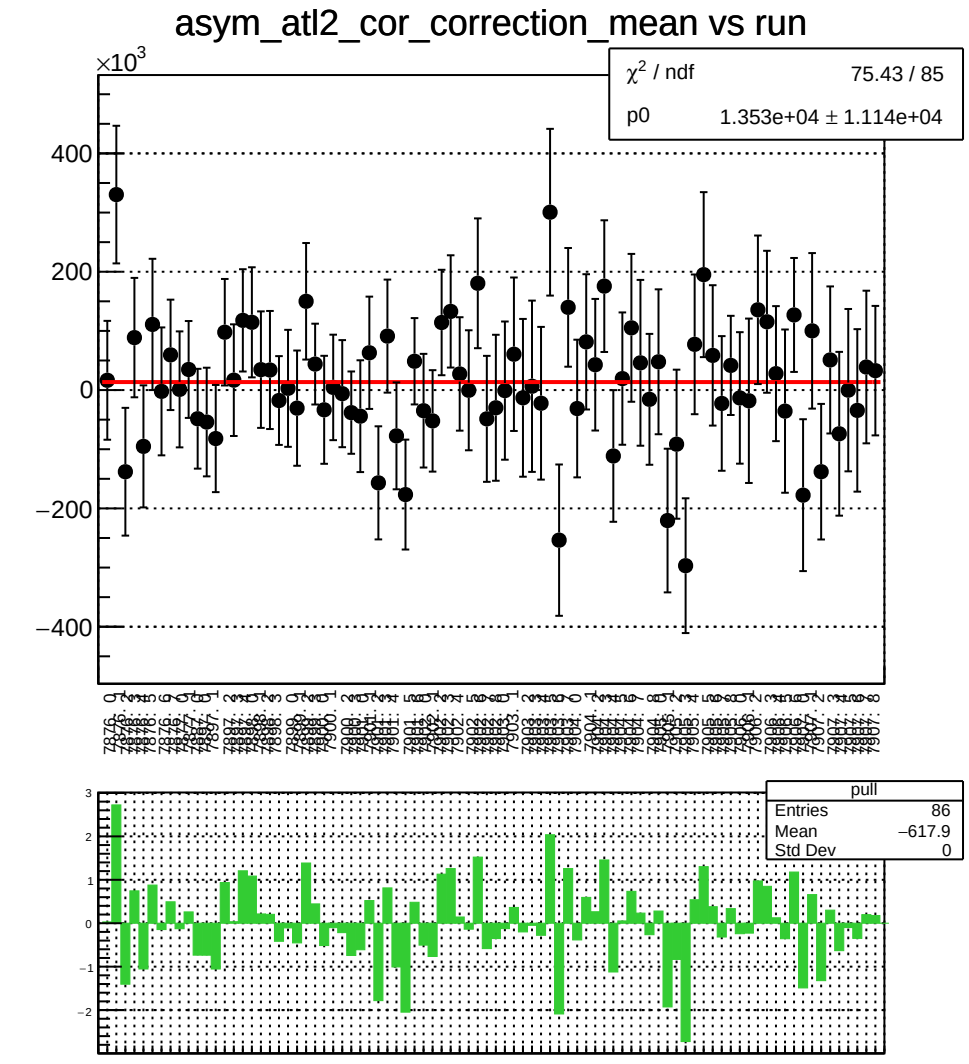

pull1D
Entries 86
Mean 0.002079
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

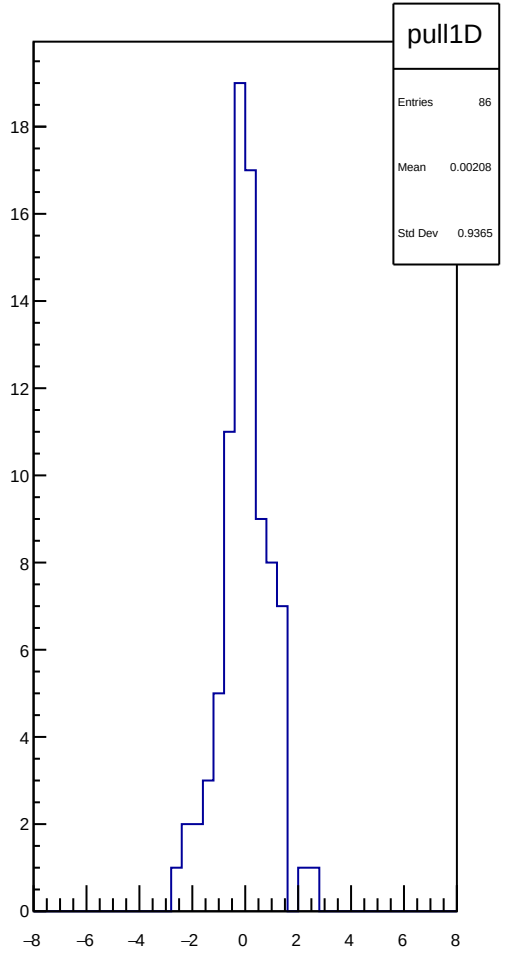

asym_atl2_reg_correction_rms vs run
χ² / ndf 3.247e+04 / 85
p0 1.014e+04 ± 7.878
14000
13000
12000
11000
10000
9000
8000


cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 81.38 / 85
p0 1512 ± 2477
pull
Entries 86
Mean 1689
Std Dev 0


pull1D
Entries 86
Mean −0.001261
Std Dev 0.9728


cor_asym_atl2_rms vs run
χ^2 / ndf 2327 / 85
p0 2274 ± 1.752
2500
2400
2300
2200
2100


asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 75.43 / 85
p0 1.353e+04 ± 1.114e+04
400
200
0
−200
−400
pull
Entries 86
Mean −617.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.00208
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
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−4
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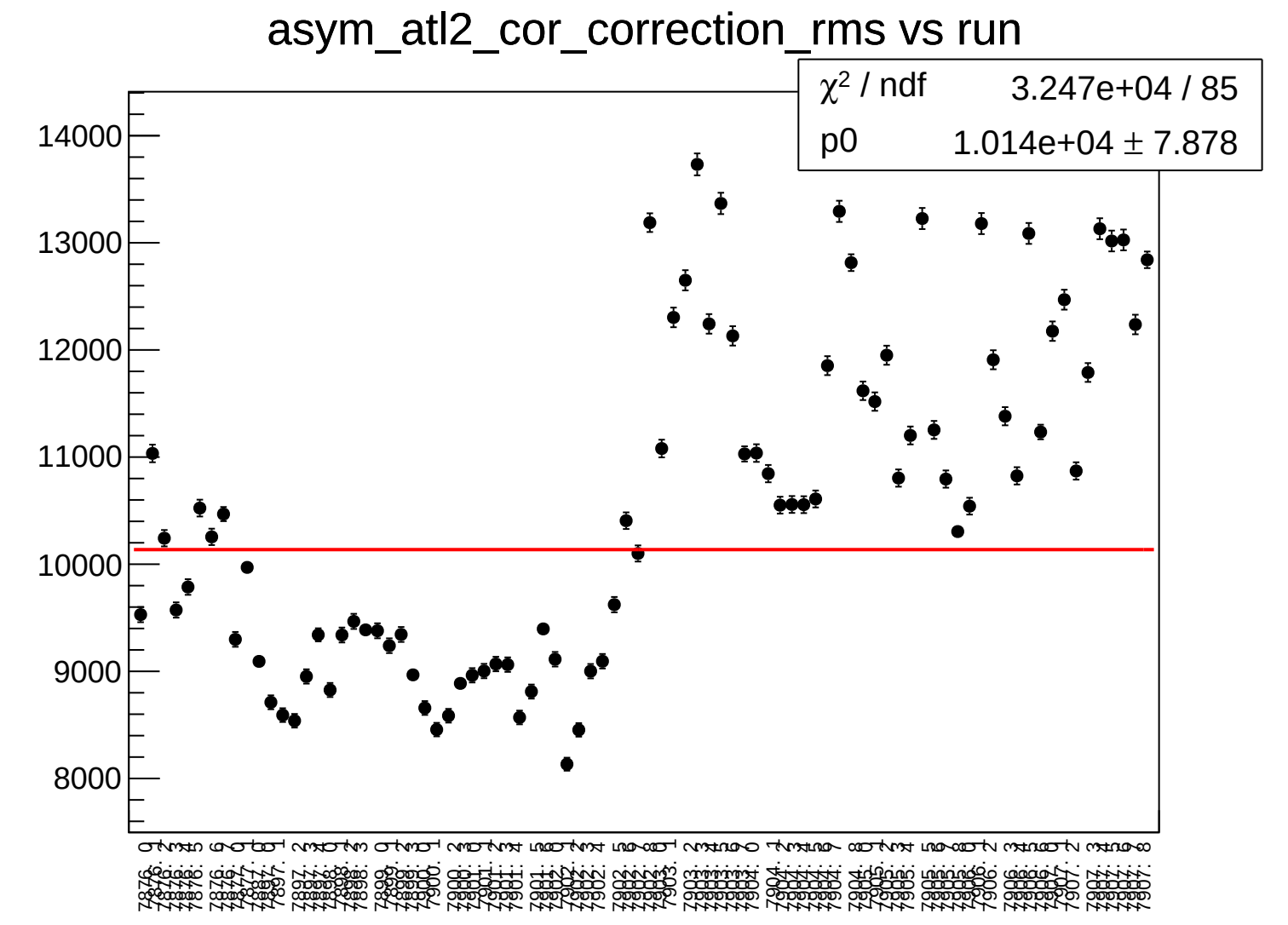
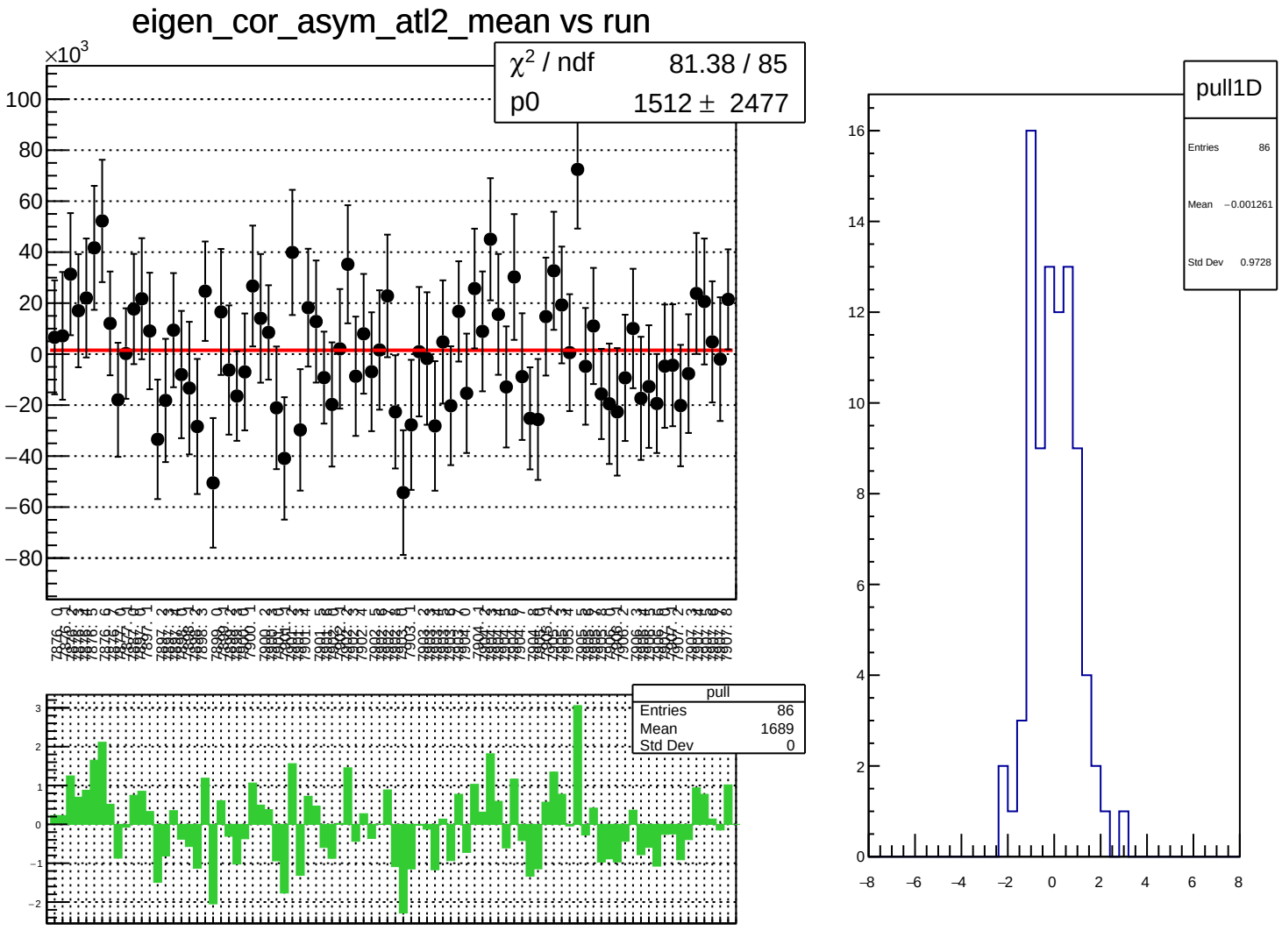
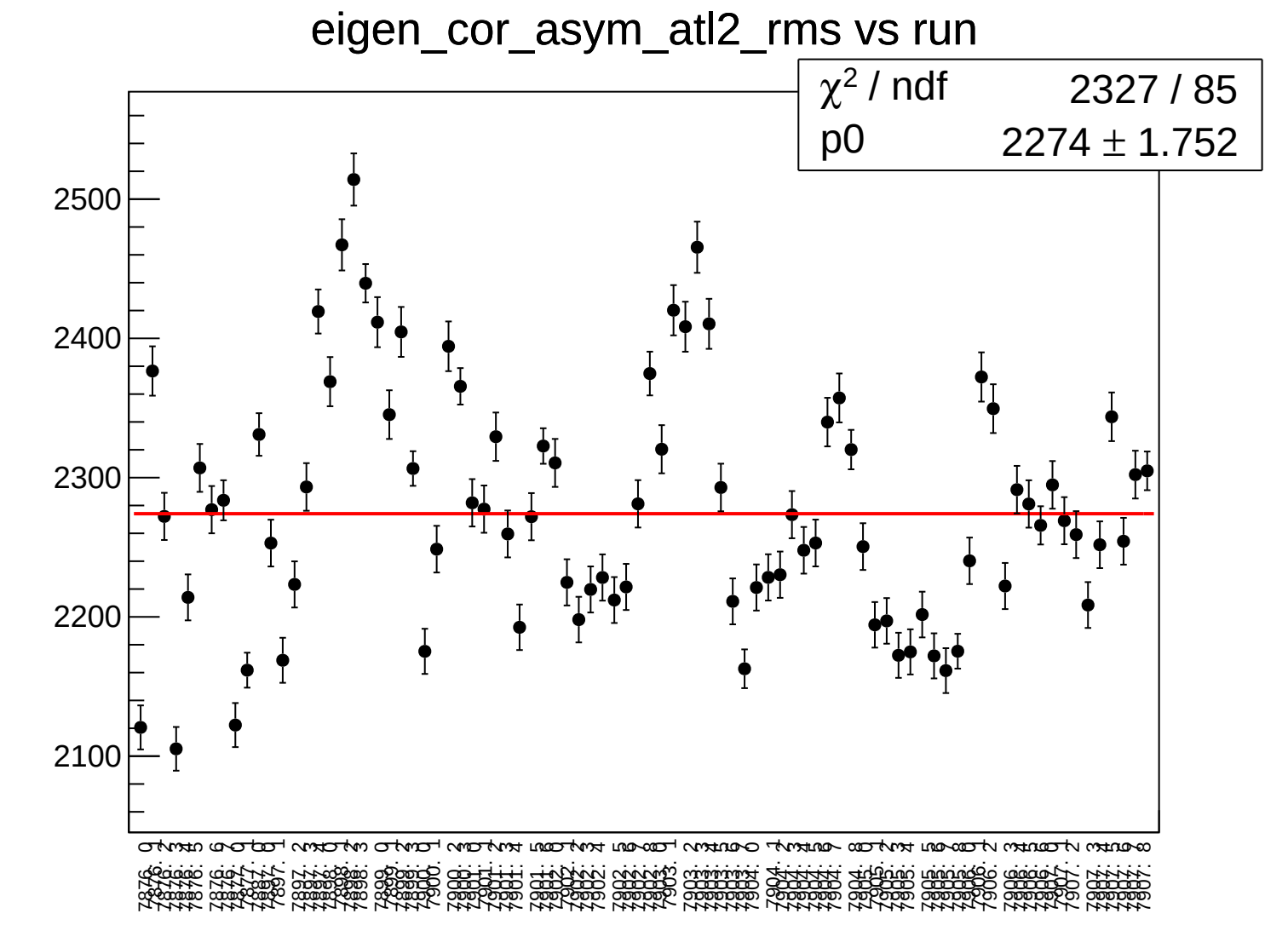
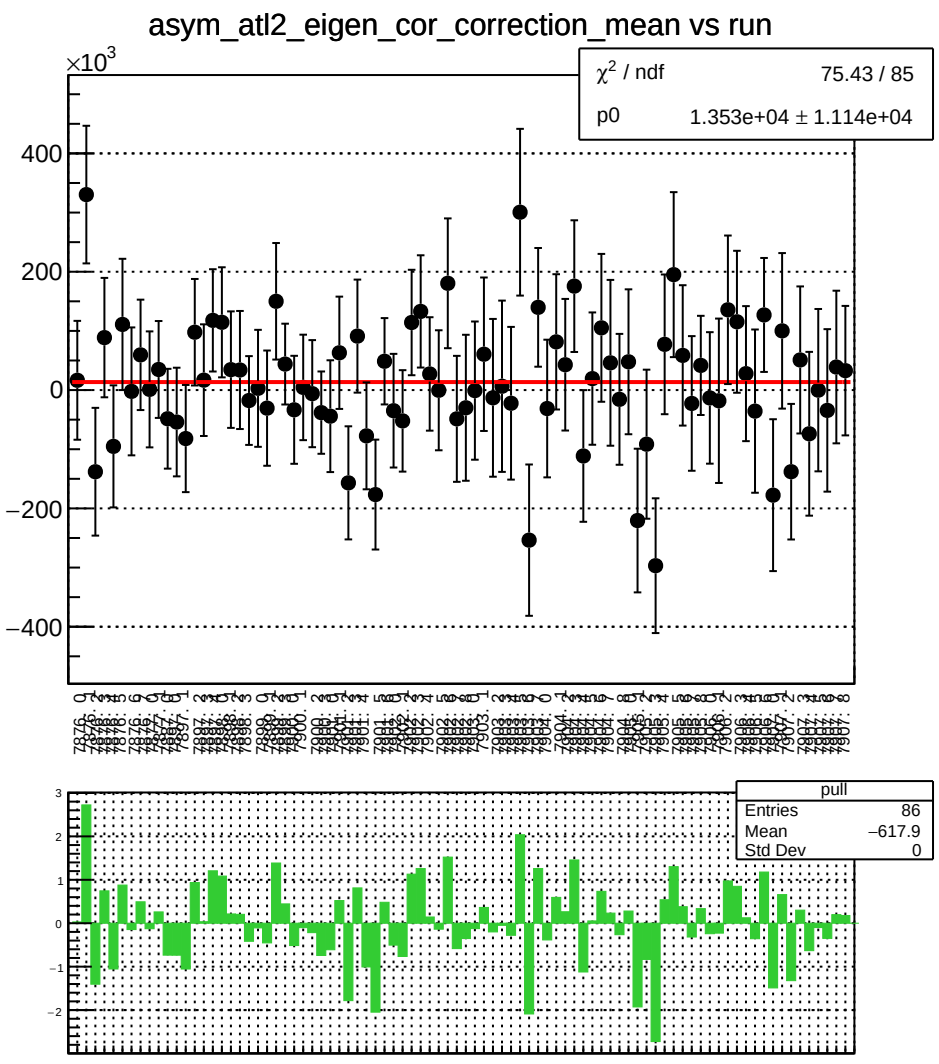
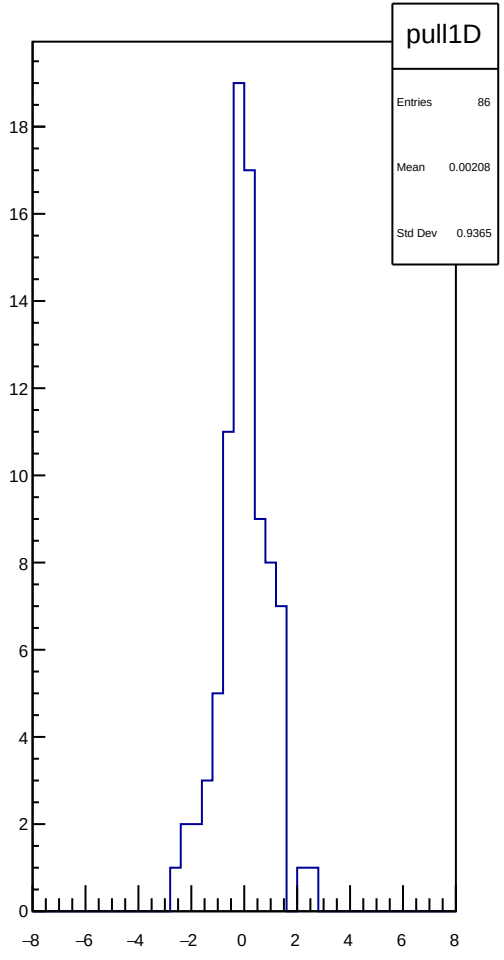
0
2
4
6
8

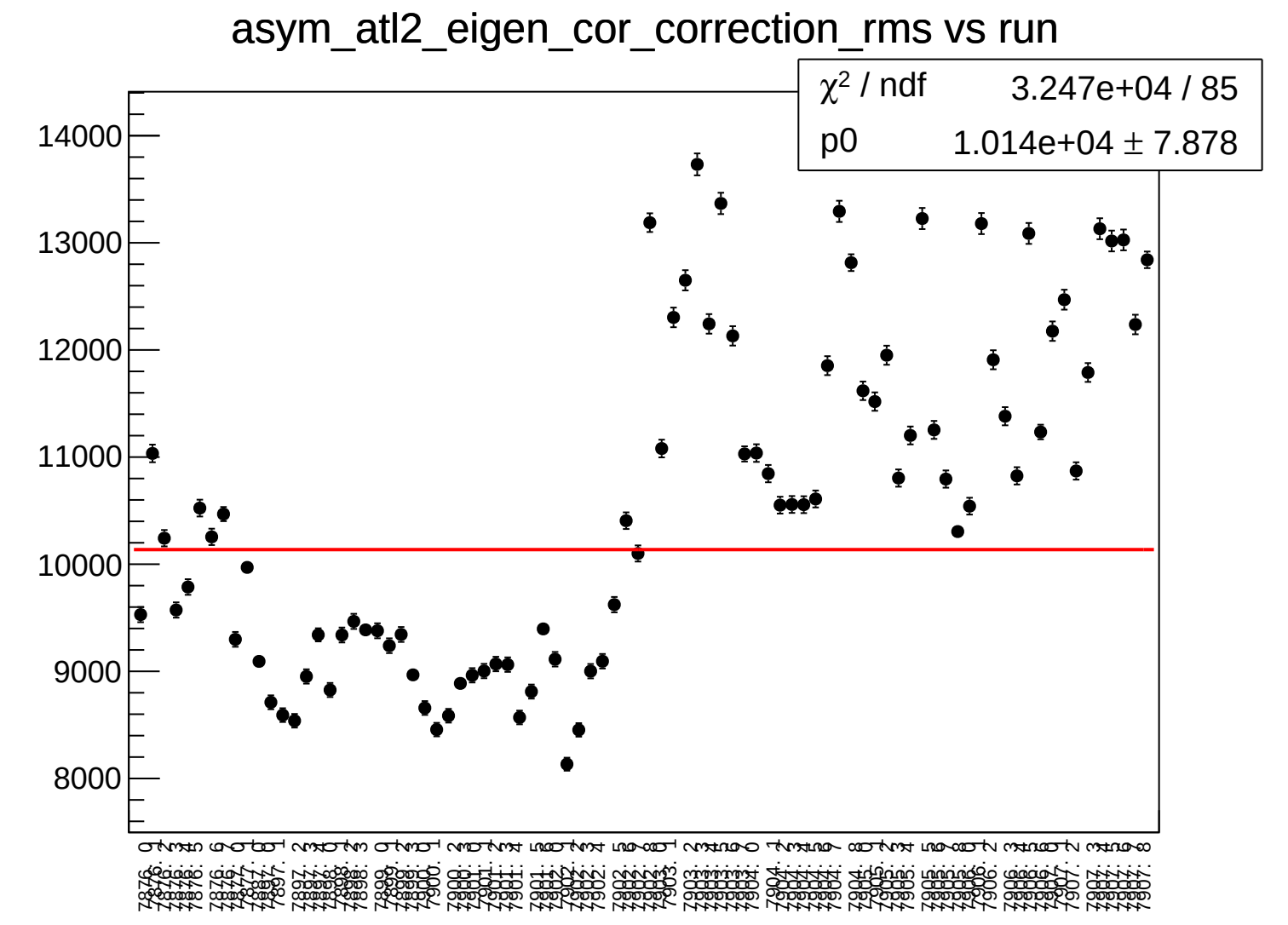

asym_atl2_cor_correction_rms vs run
χ² / ndf 3.247e+04 / 85
p0 1.014e+04 ± 7.878
14000
13000
12000
11000
10000
9000
8000

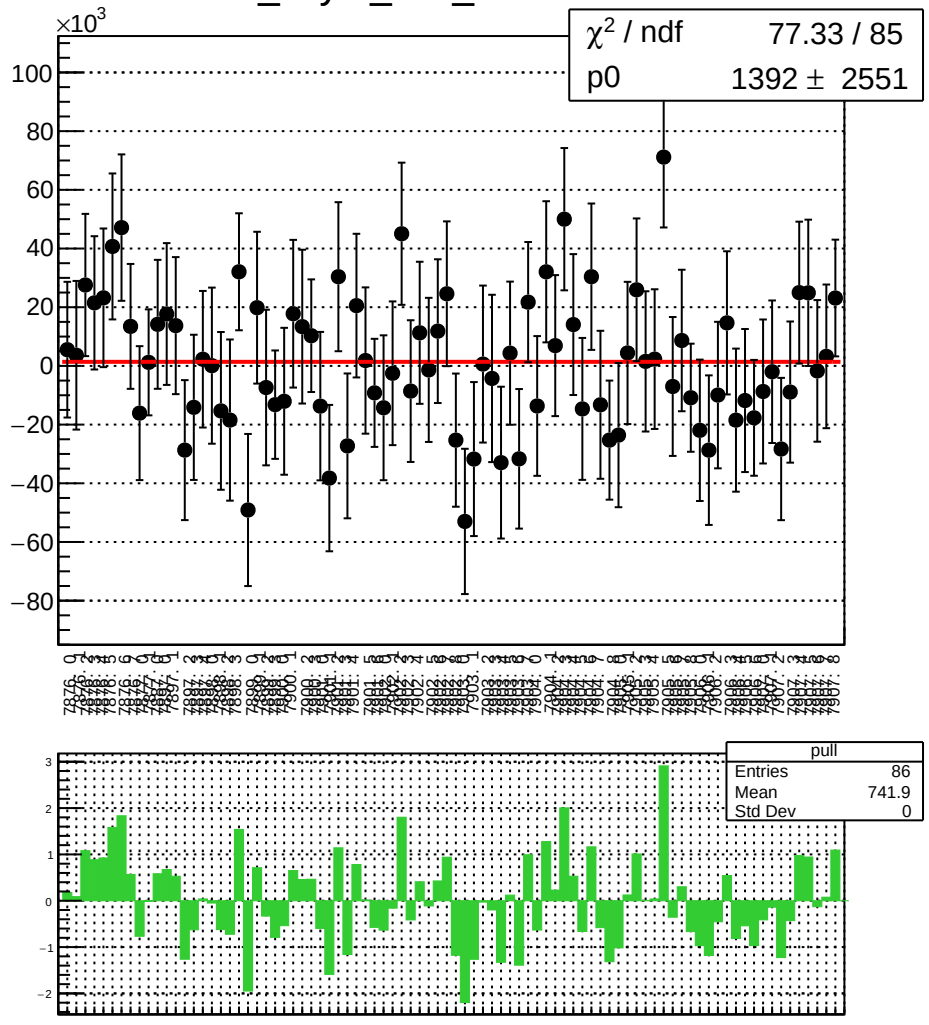

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 81.38 / 85
p0 1512 ± 2477
pull
Entries 86
Mean 1689
Std Dev 0
pull1D
Entries 86
Mean −0.001261
Std Dev 0.9728

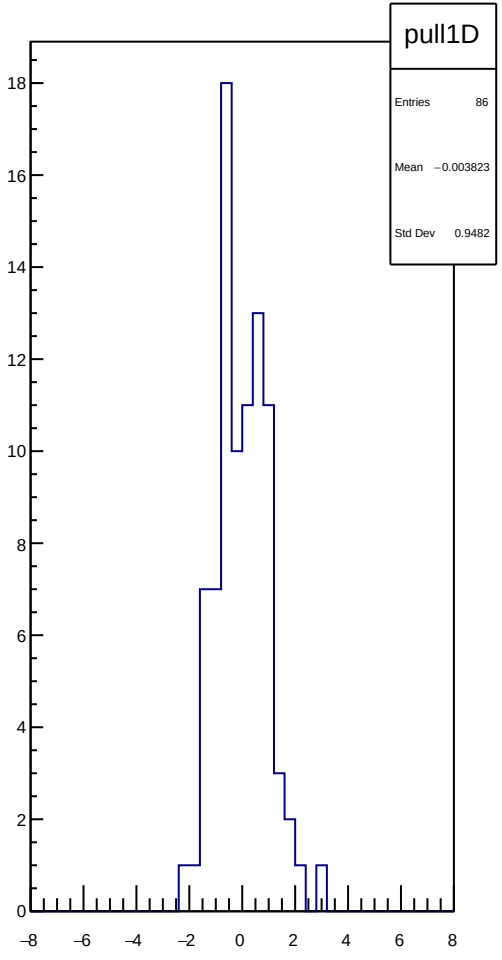

eigen_cor_asym_atl2_rms vs run
χ² / ndf 2327 / 85
p0 2274 ± 1.752
2500
2400
2300
2200
2100

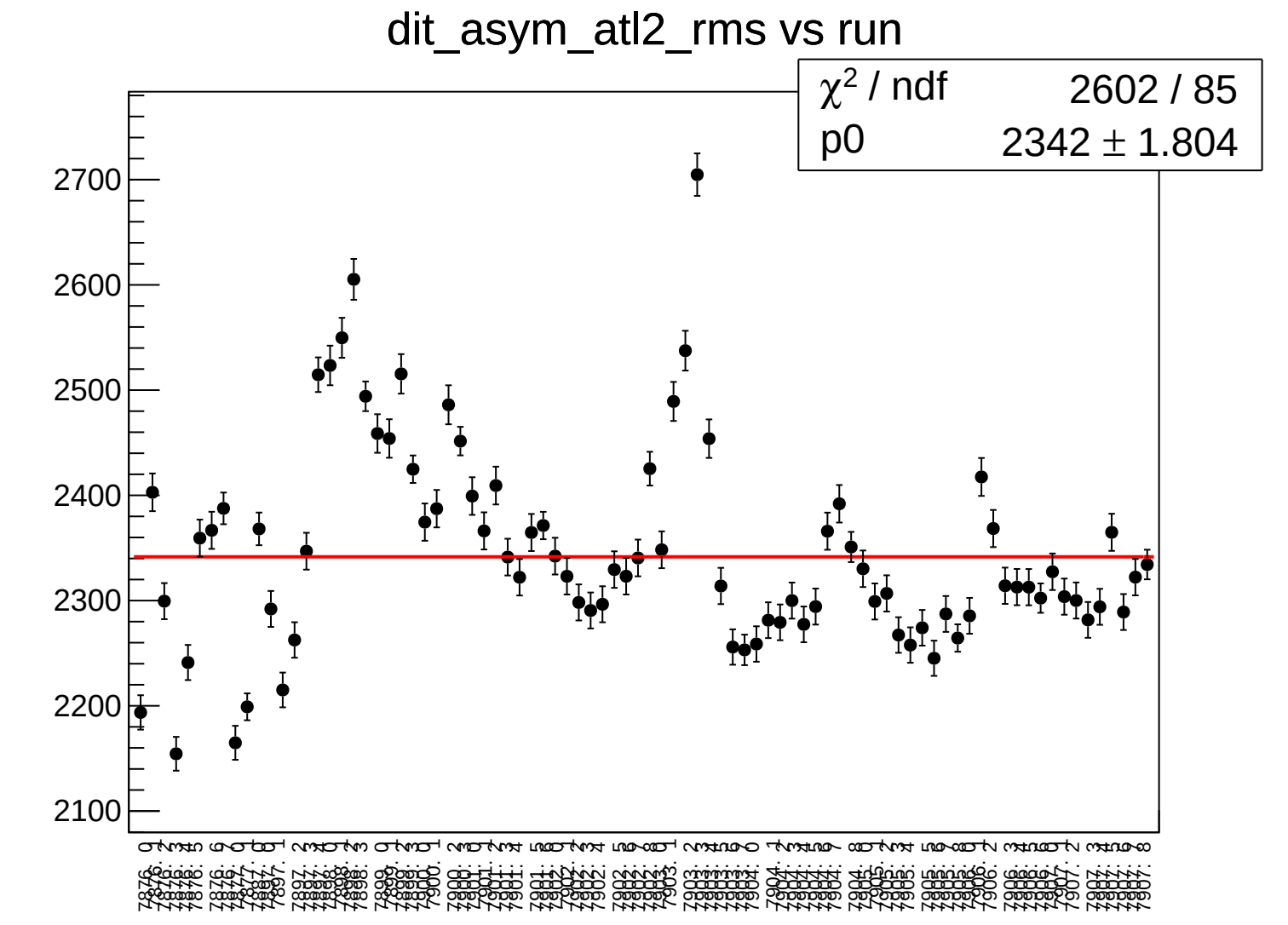

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.43 / 85
p0 1.353e+04 ± 1.114e+04
400
200
0
−200
−400
pull
Entries 86
Mean −617.9
Std Dev 0
3
2
1
0
−1
−2

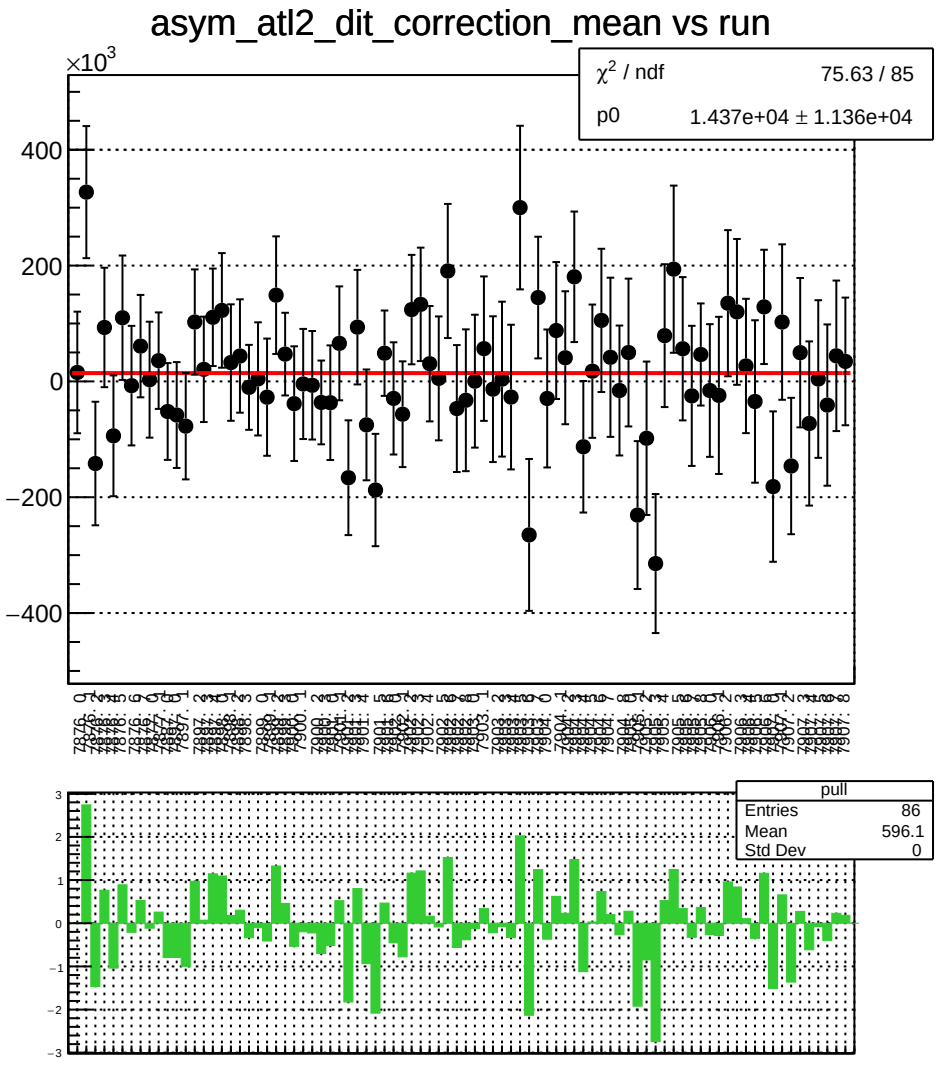

pull1D
Entries 86
Mean 0.00208
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

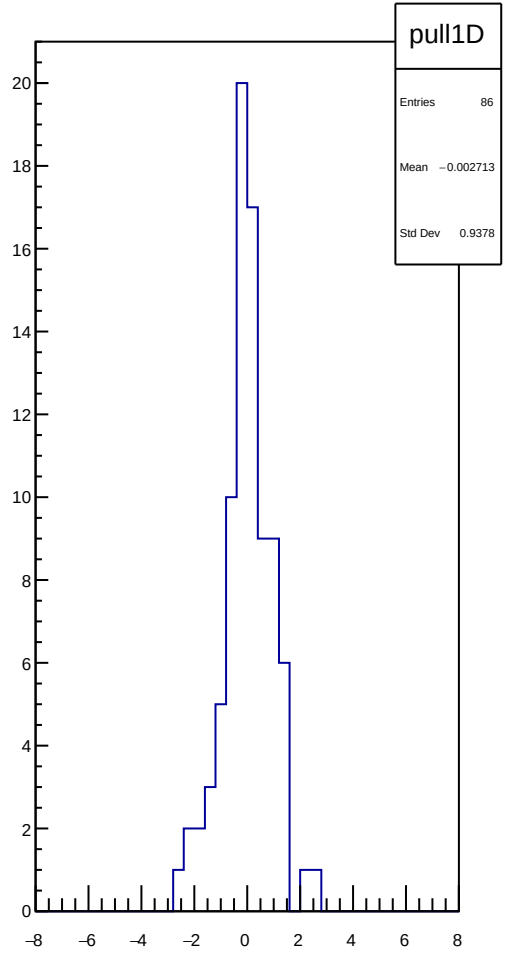

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 3.247e+04 / 85
p0 1.014e+04 ± 7.878
14000
13000
12000
11000
10000
9000
8000

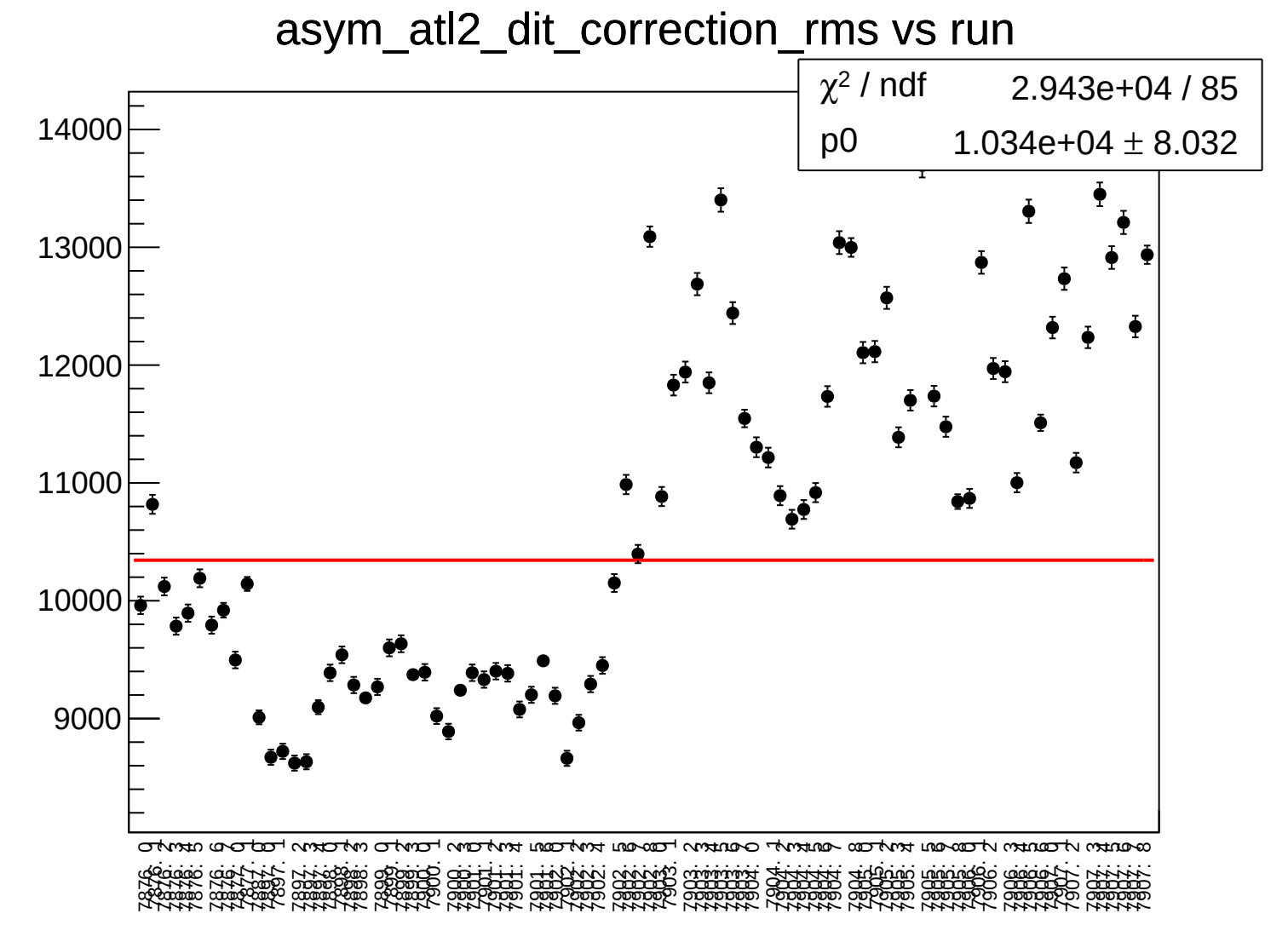

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 77.33 / 85
p0 1392 ± 2551
pull
Entries 86
Mean 741.9
Std Dev 0

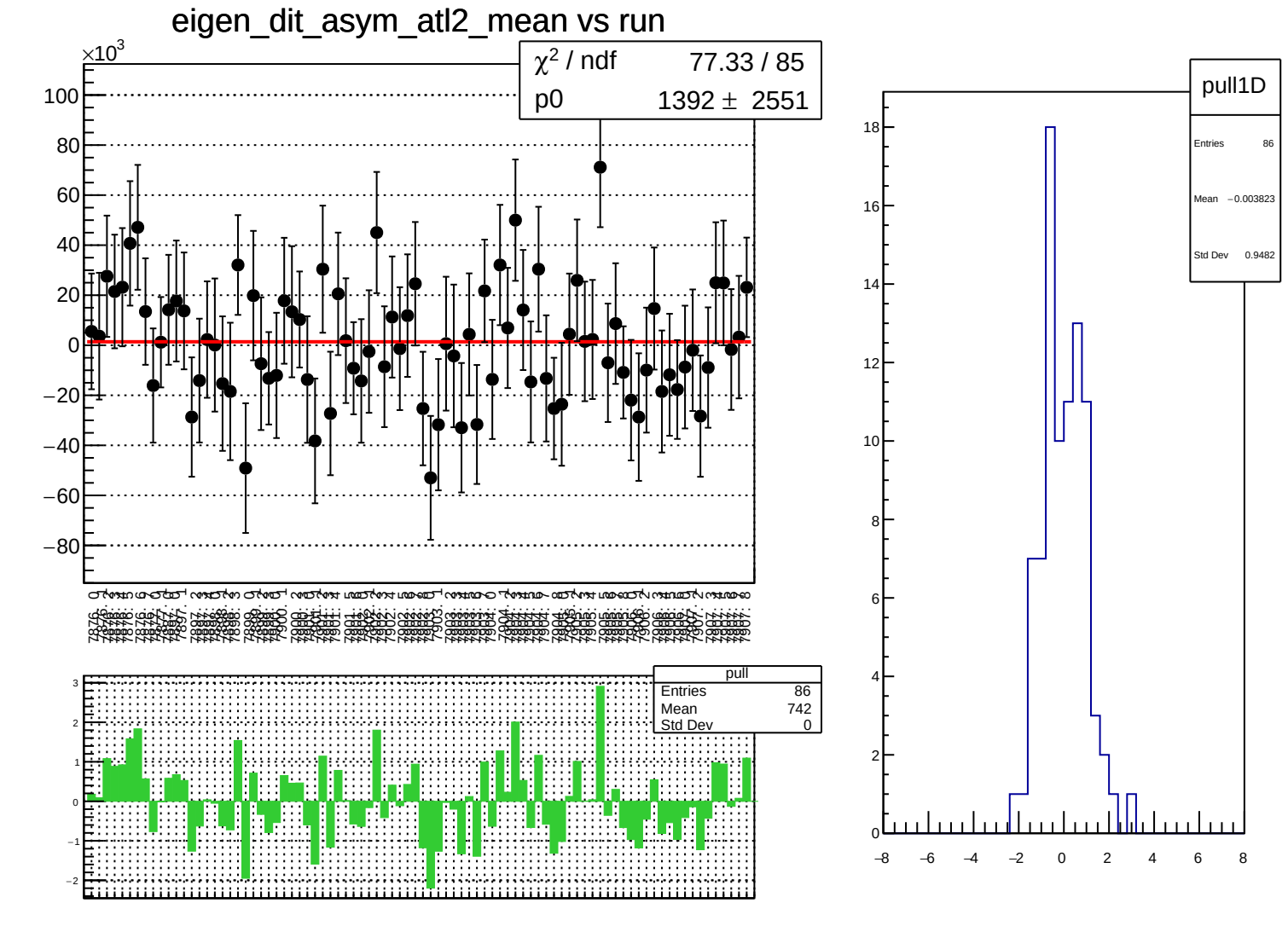

pull1D
Entries 86
Mean −0.003823
Std Dev 0.9482

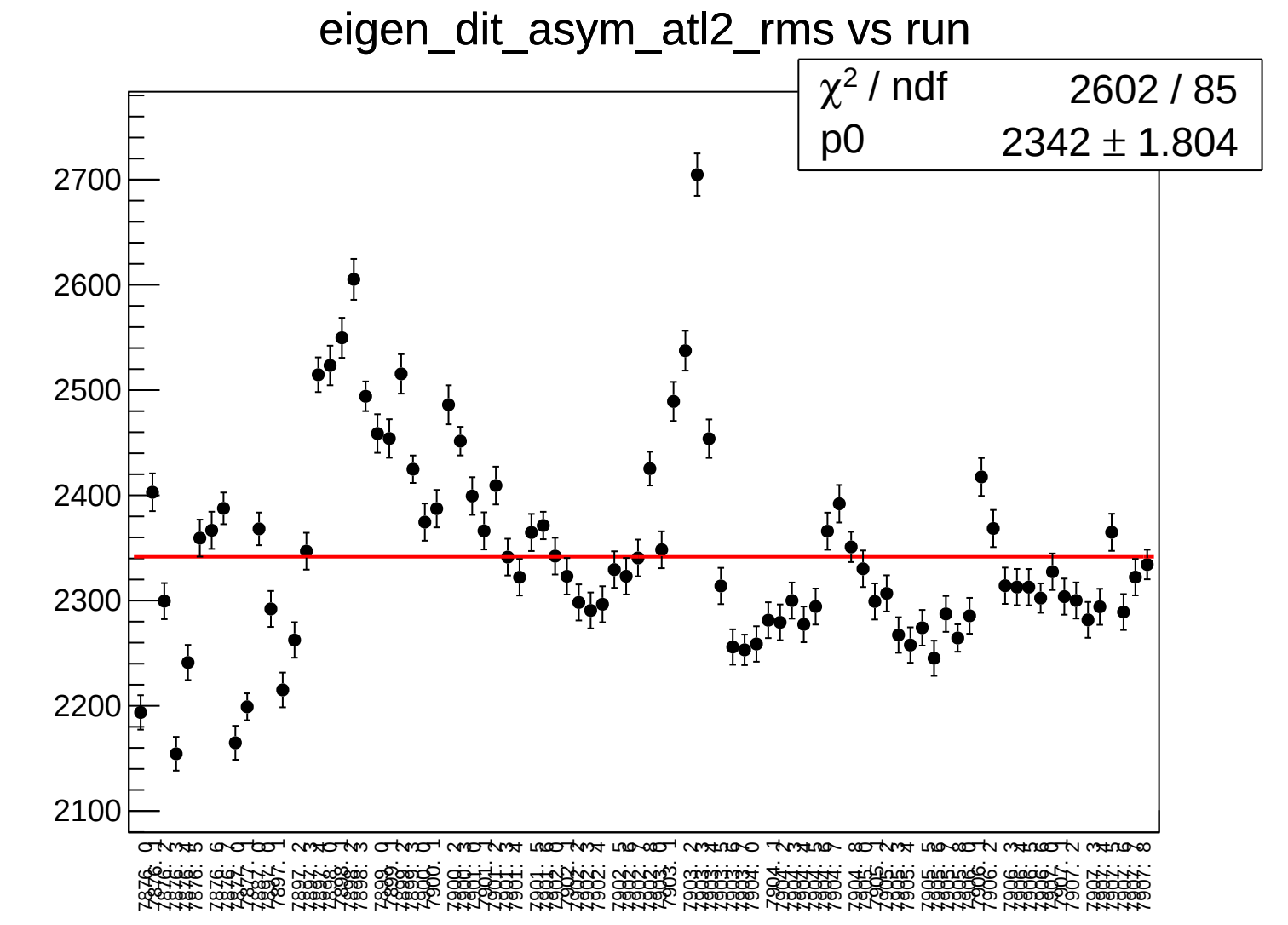

dit_asym_atl2_rms vs run
χ^2 / ndf 2602 / 85
p0 2342 ± 1.804
2700
2600
2500
2400
2300
2200
2100

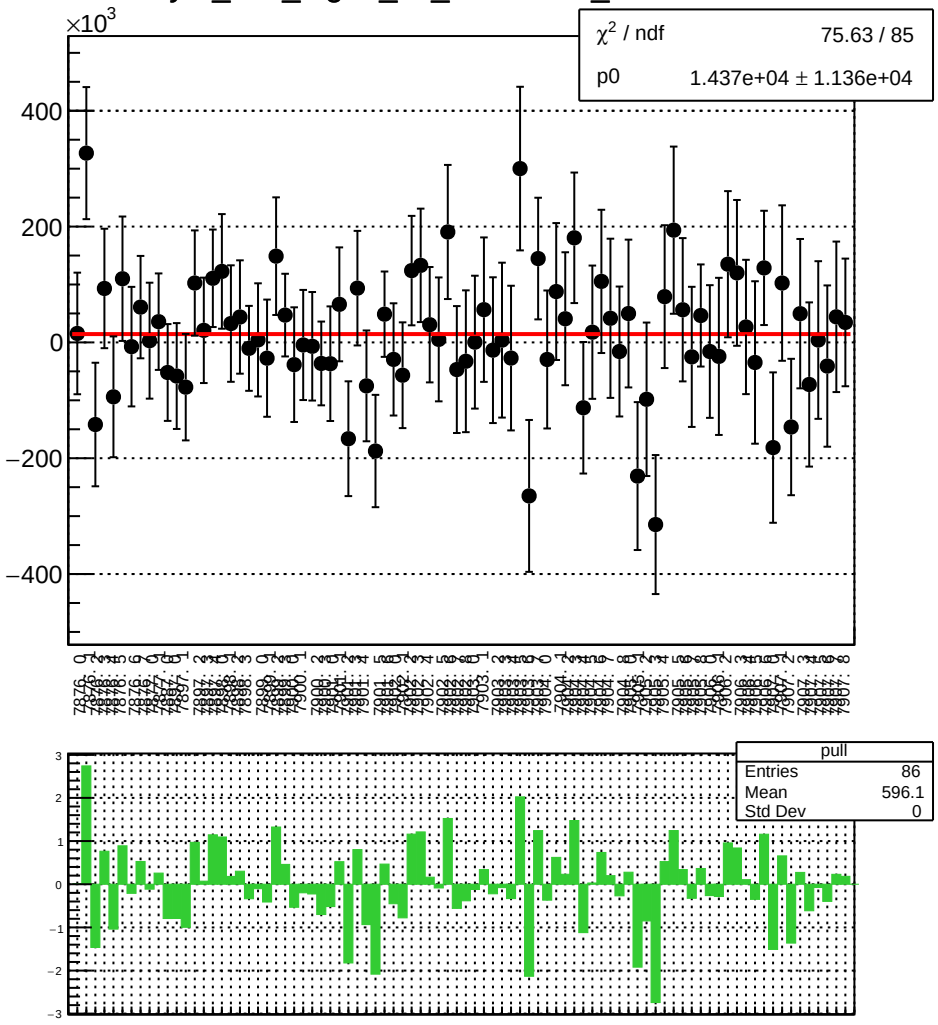

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 75.63 / 85
p0 1.437e+04 ± 1.136e+04
400
200
0
−200
−400
pull
Entries 86
Mean 596.1
Std Dev 0
3
2
1
0
−1
−2
−3

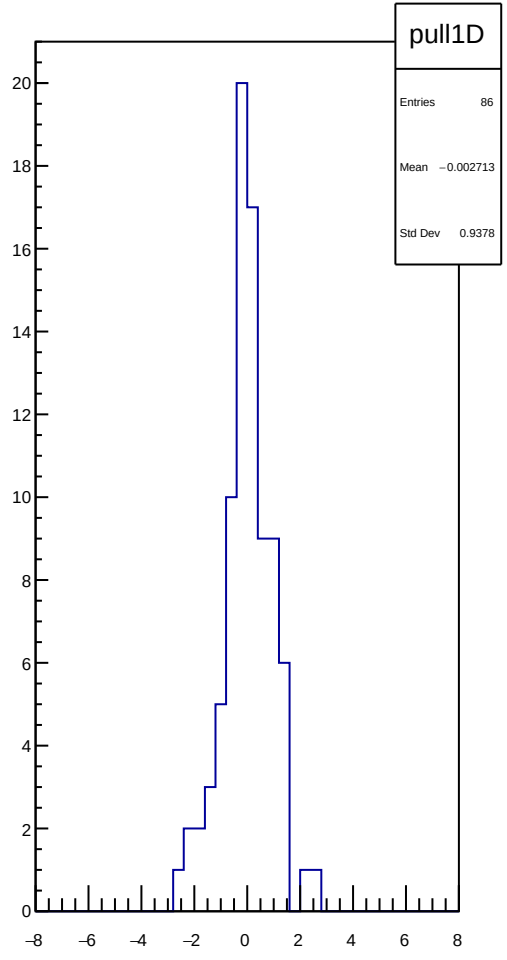

pull1D
Entries 86
Mean −0.002713
Std Dev 0.9378
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

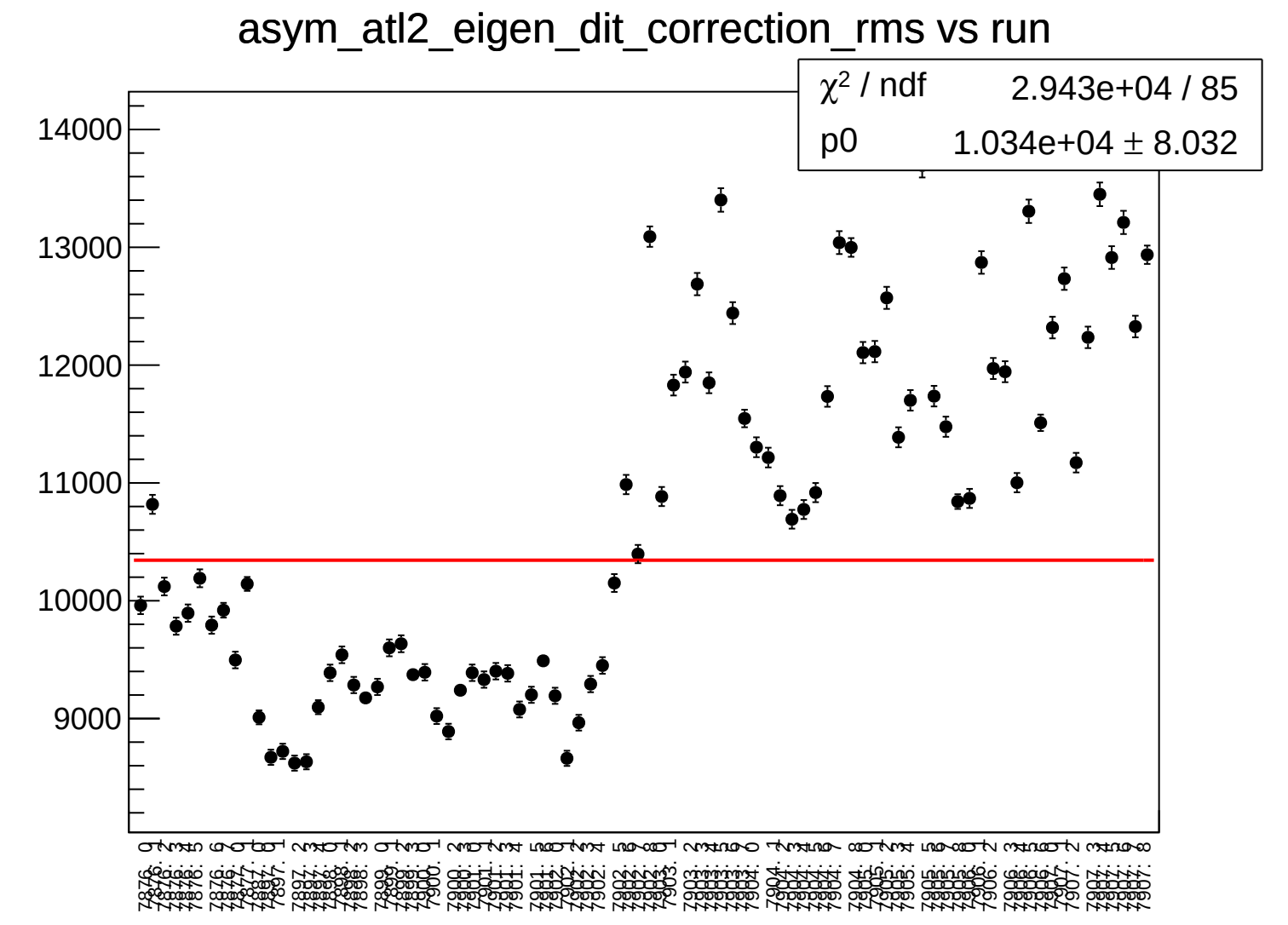

asym_atl2_dit_correction_rms vs run
χ² / ndf 2.943e+04 / 85
p0 1.034e+04 ± 8.032
14000
13000
12000
11000
10000
9000

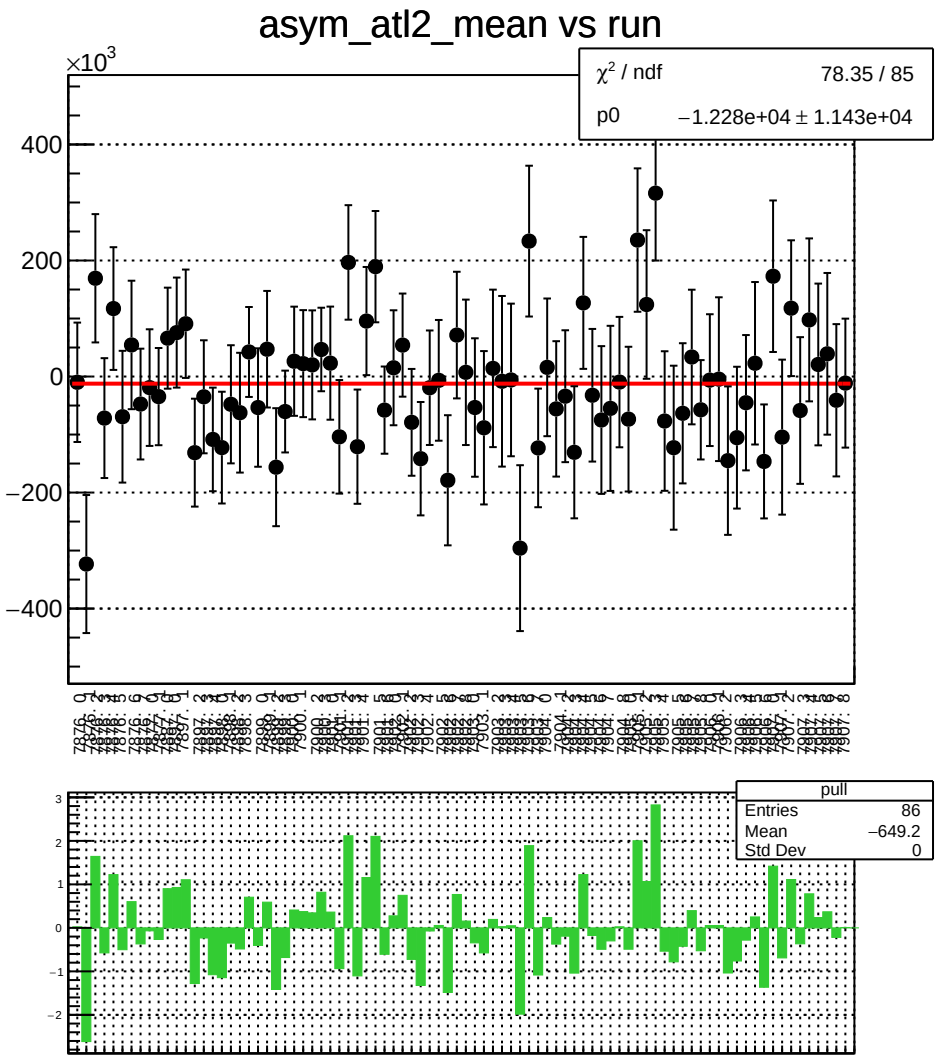

eigen_dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 77.33 / 85
p0 1392 ± 2551
pull
Entries 86
Mean 742
Std Dev 0
pull1D
Entries 86
Mean −0.003823
Std Dev 0.9482

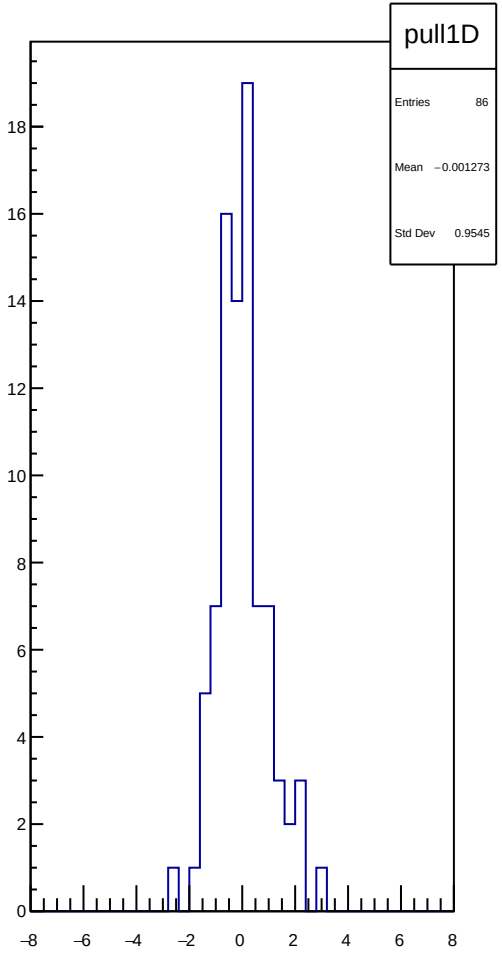

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 2602 / 85
p0 2342 ± 1.804
2700
2600
2500
2400
2300
2200
2100


asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 75.63 / 85
p0 1.437e+04 ± 1.136e+04
400
200
0
−200
−400
pull
Entries 86
Mean 596.1
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.002713
Std Dev 0.9378
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 2.943e+04 / 85
p0 1.034e+04 ± 8.032
14000
13000
12000
11000
10000
9000


asym_atl2_mean vs run
×10^3
χ² / ndf 78.35 / 85
p0 −1.228e+04 ± 1.143e+04
400
200
0
−200
−400
pull
Entries 86
Mean −649.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.001273
Std Dev 0.9545
18
16
14
12
10
8
6
4
2
0
−8
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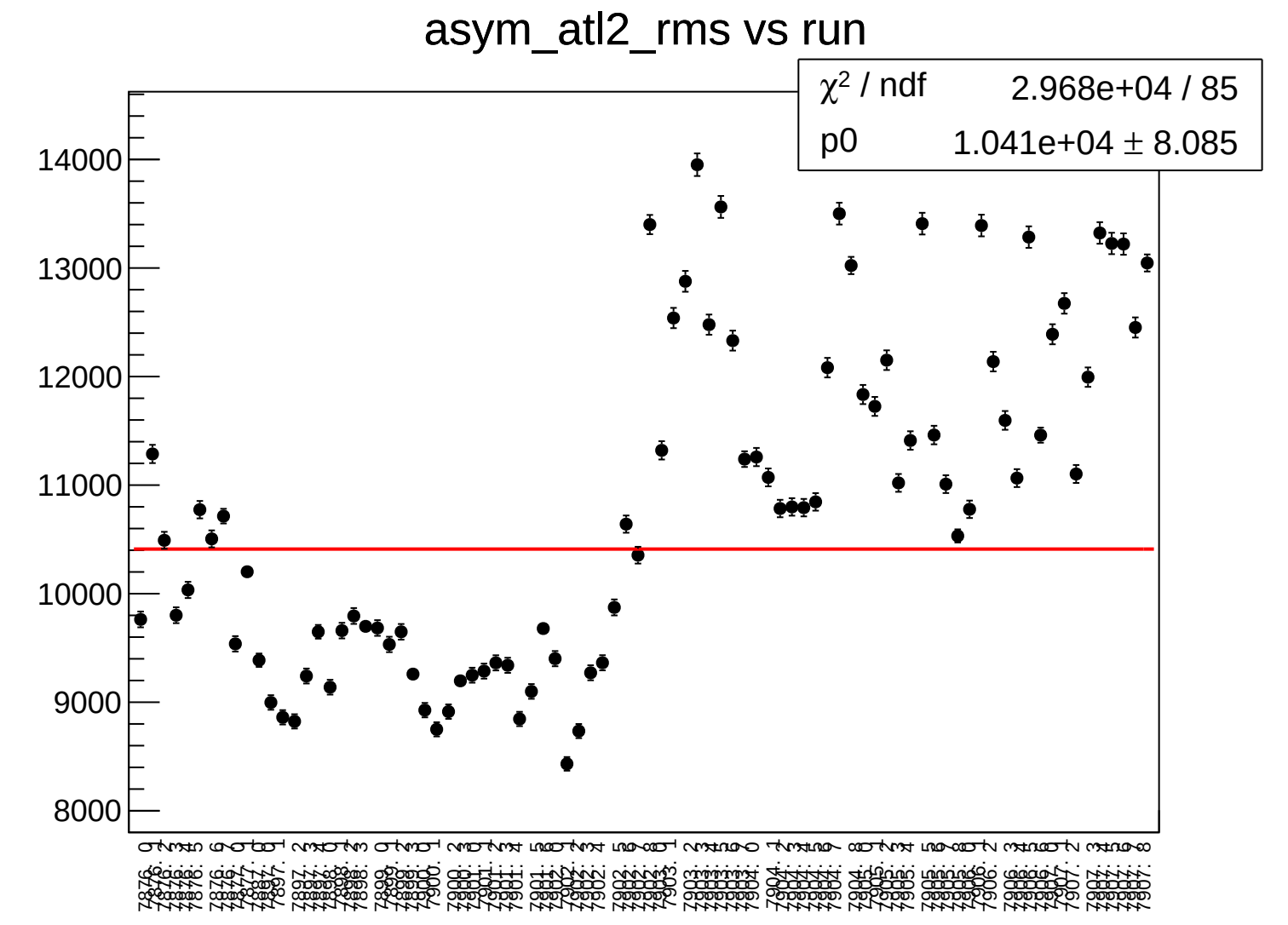
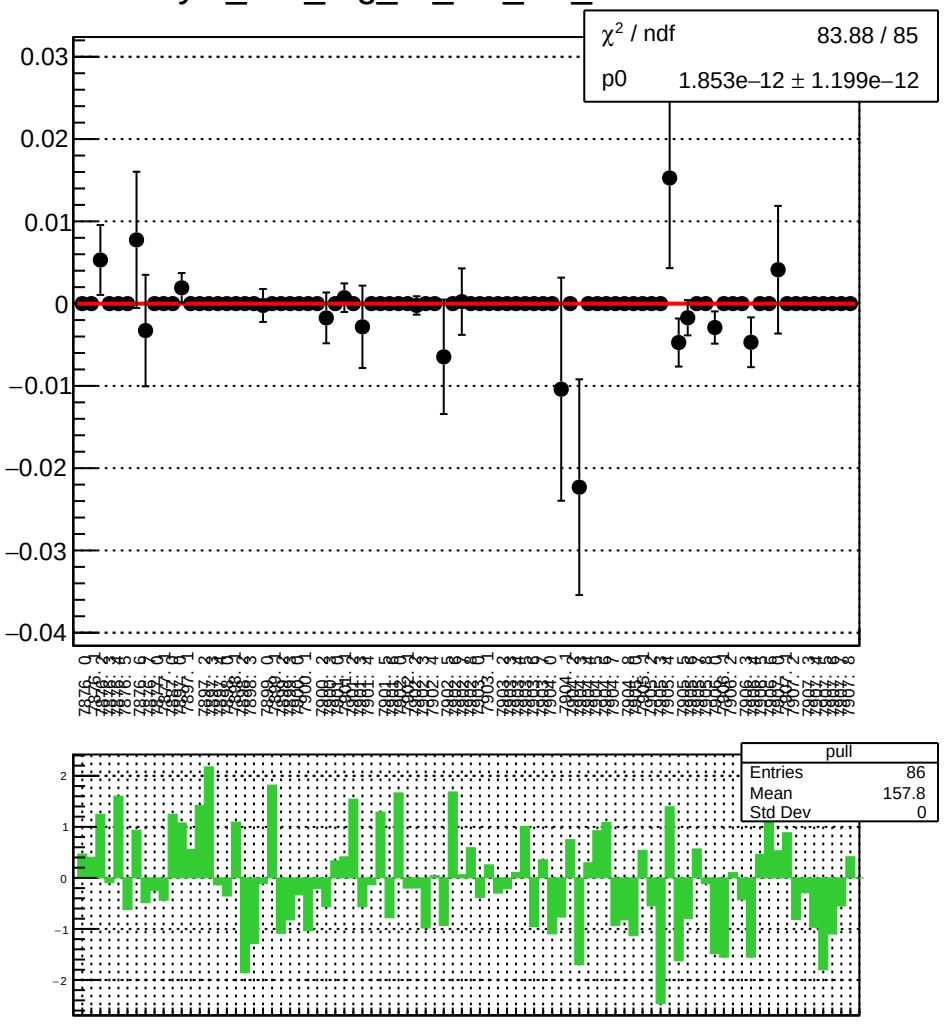
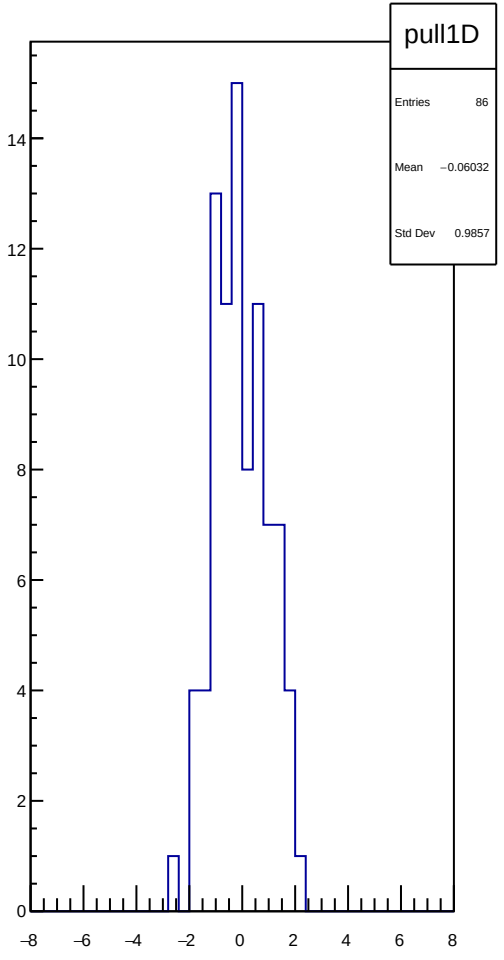
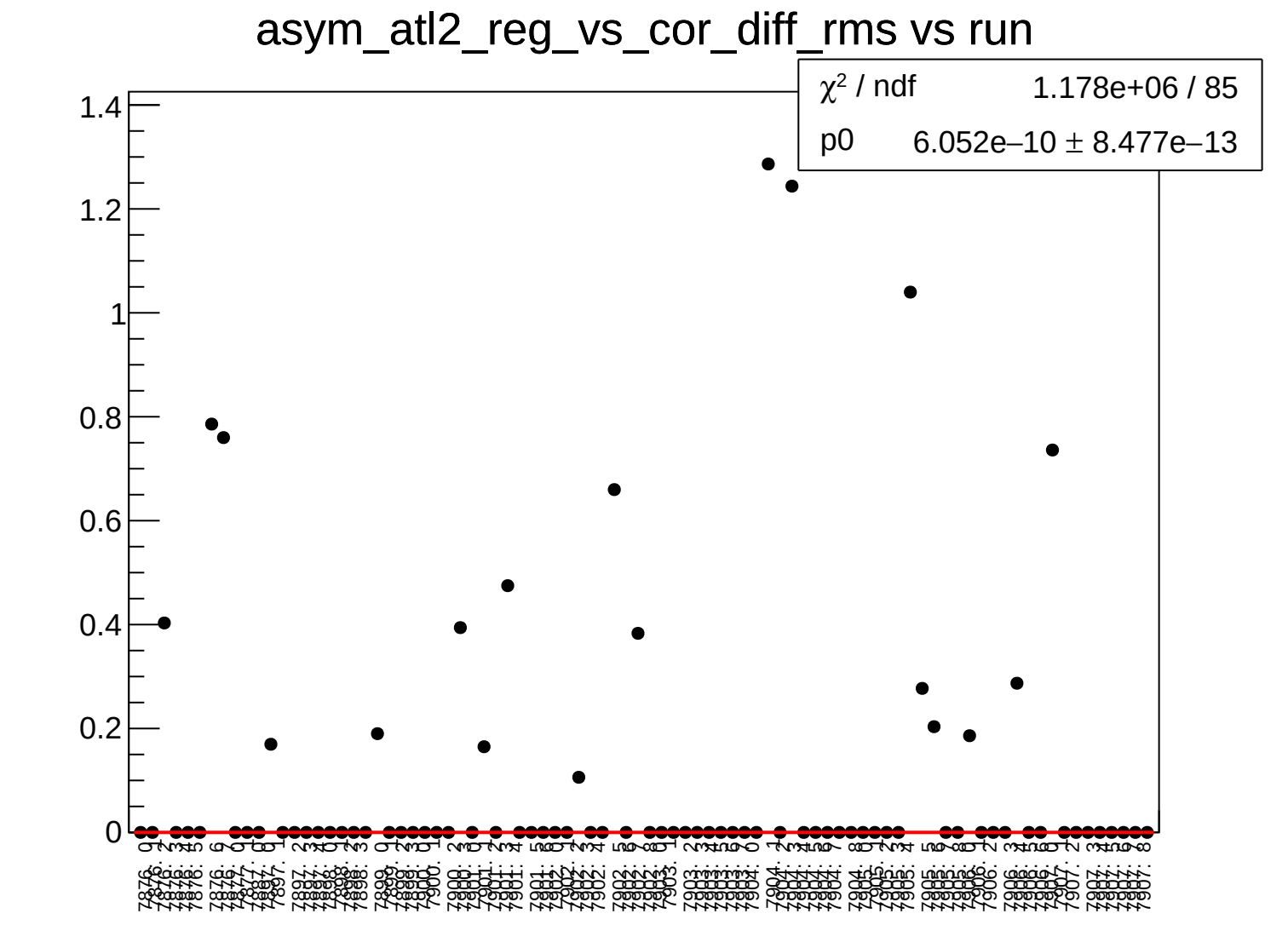
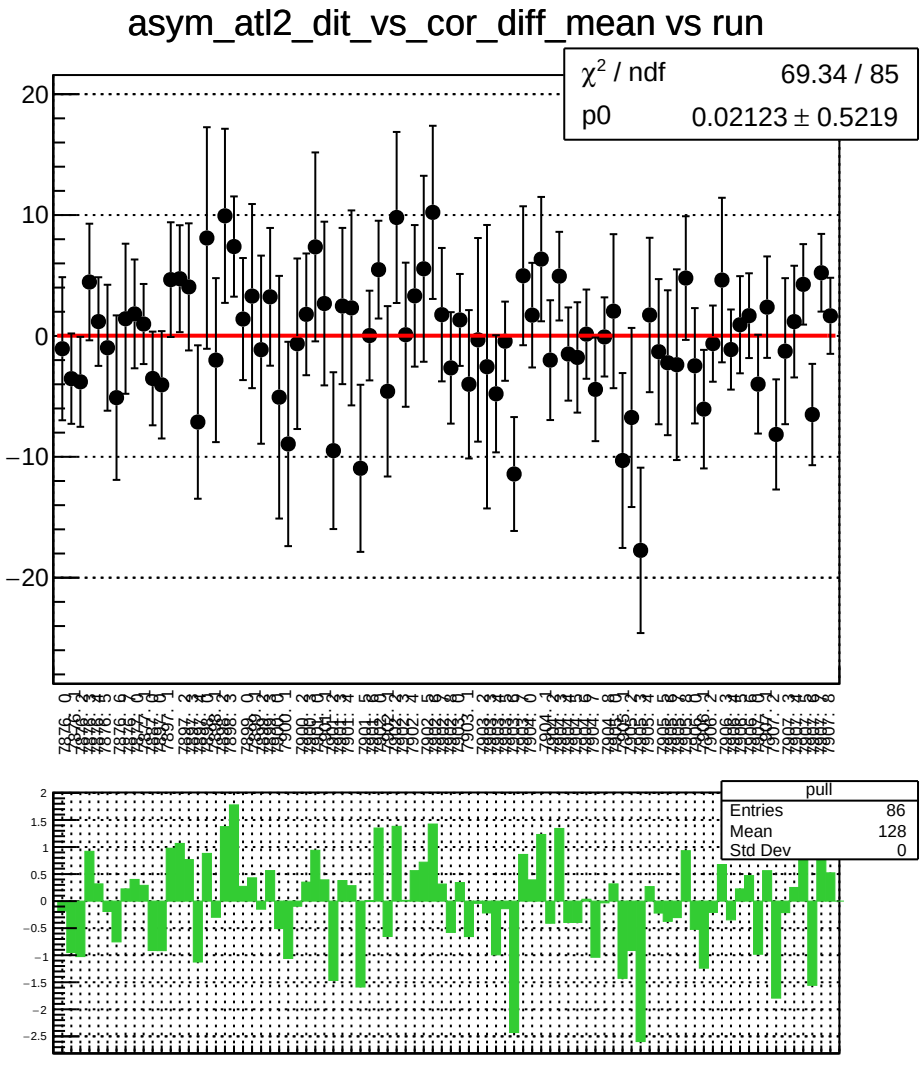
−4
−2
0
2
4
6
8

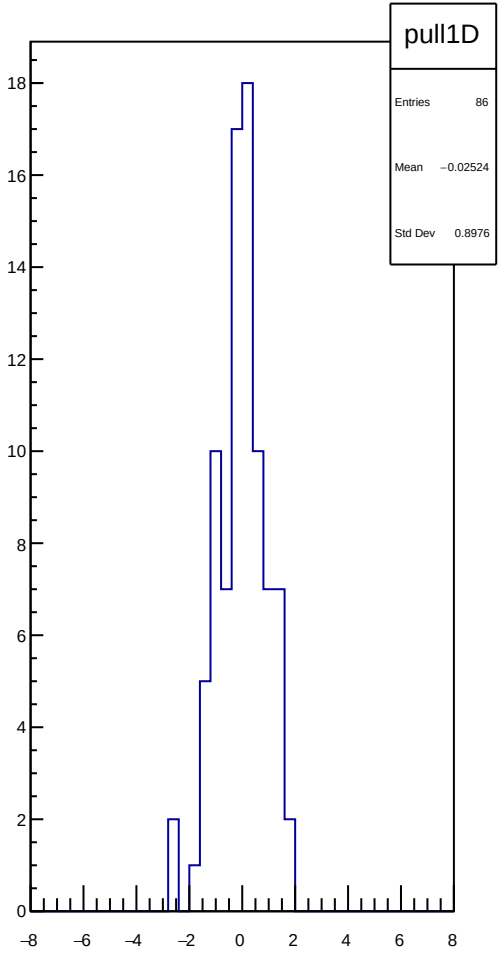

asym_atl2_rms vs run
χ² / ndf 2.968e+04 / 85
p0 1.041e+04 ± 8.085
14000
13000
12000
11000
10000
9000
8000

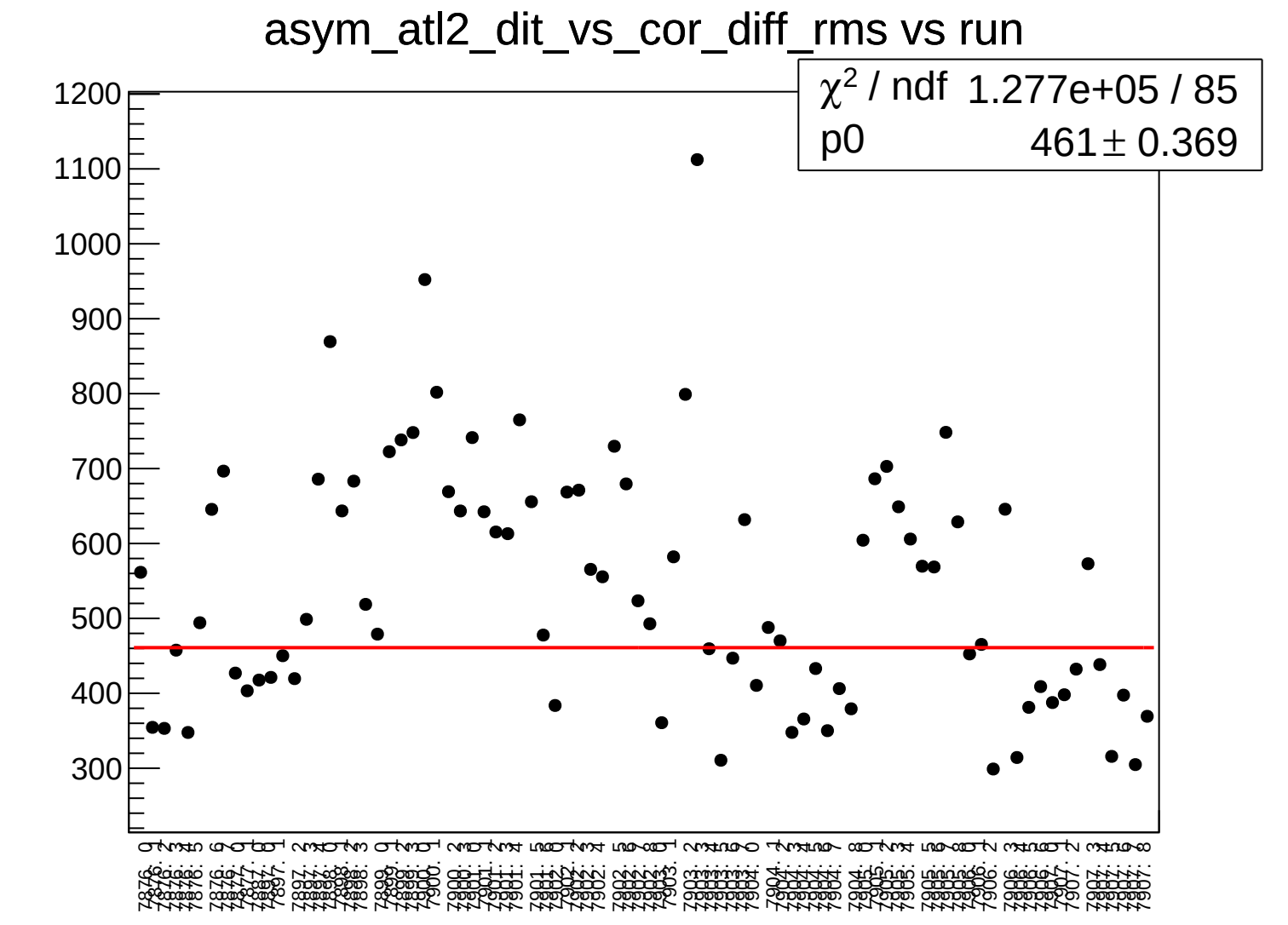

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 83.88 / 85
p0 1.853e−12 ± 1.199e−12
pull
Entries 86
Mean 157.8
Std Dev 0

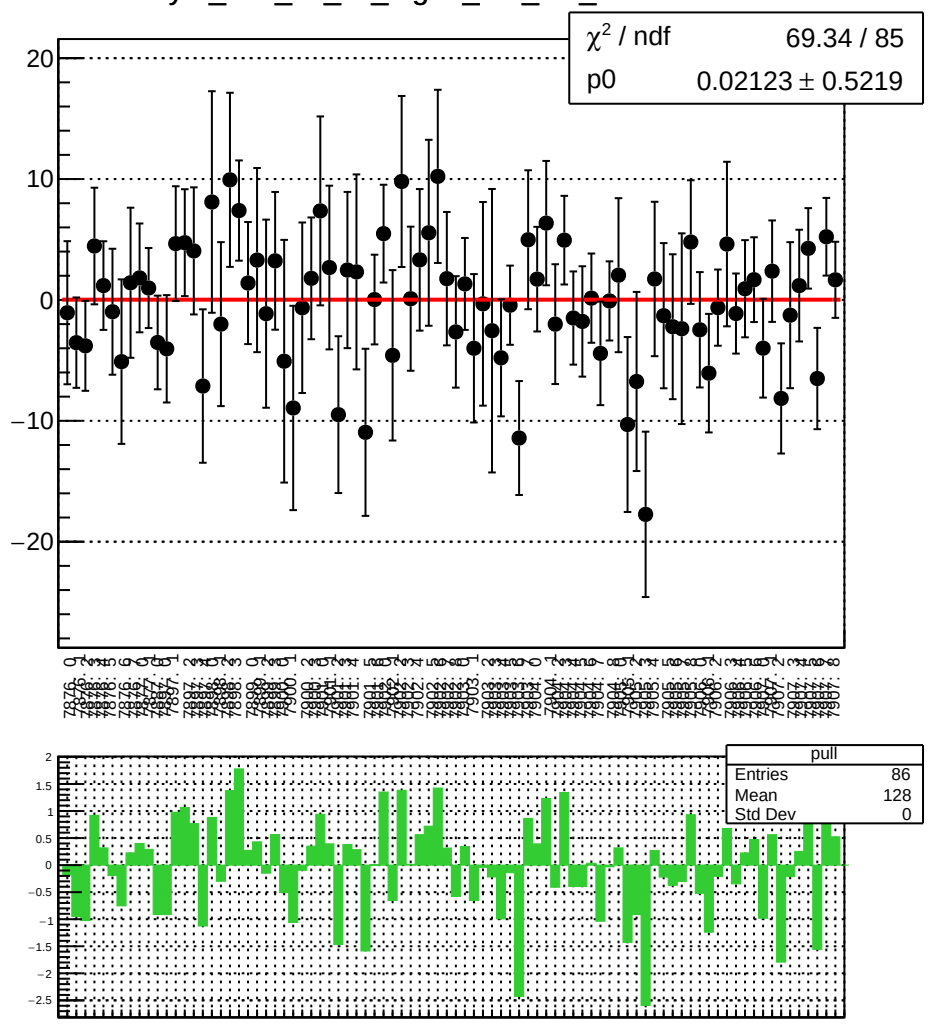

pull1D
Entries 86
Mean −0.06032
Std Dev 0.9857

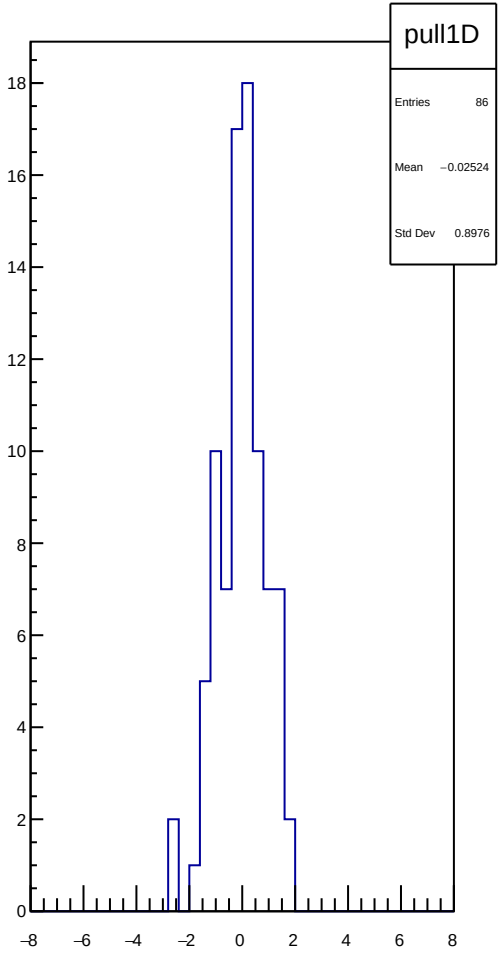

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.178e+06 / 85
p0 6.052e−10 ± 8.477e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

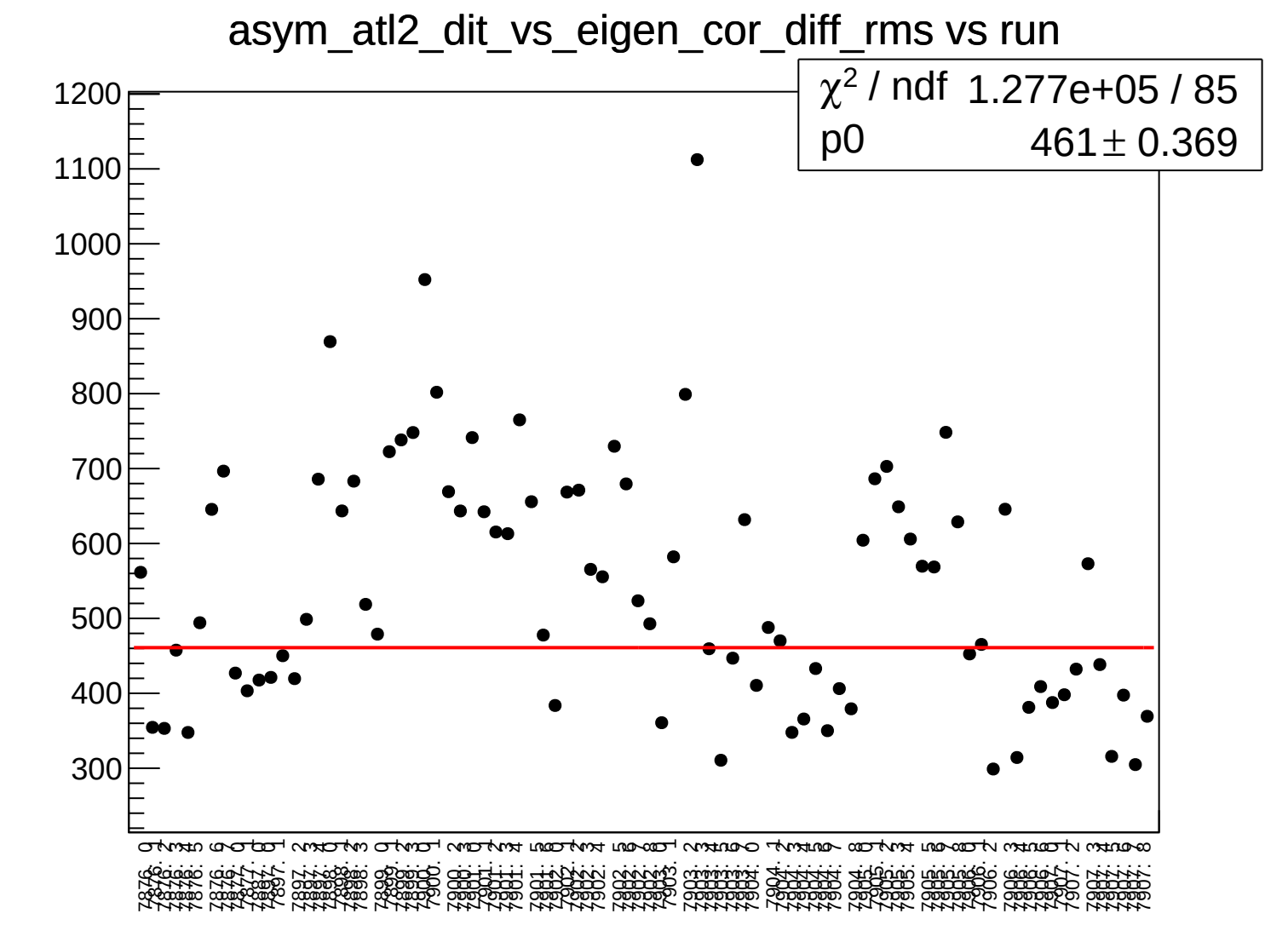

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 69.34 / 85
p0 0.02123 ± 0.5219
pull
Entries 86
Mean 128
Std Dev 0

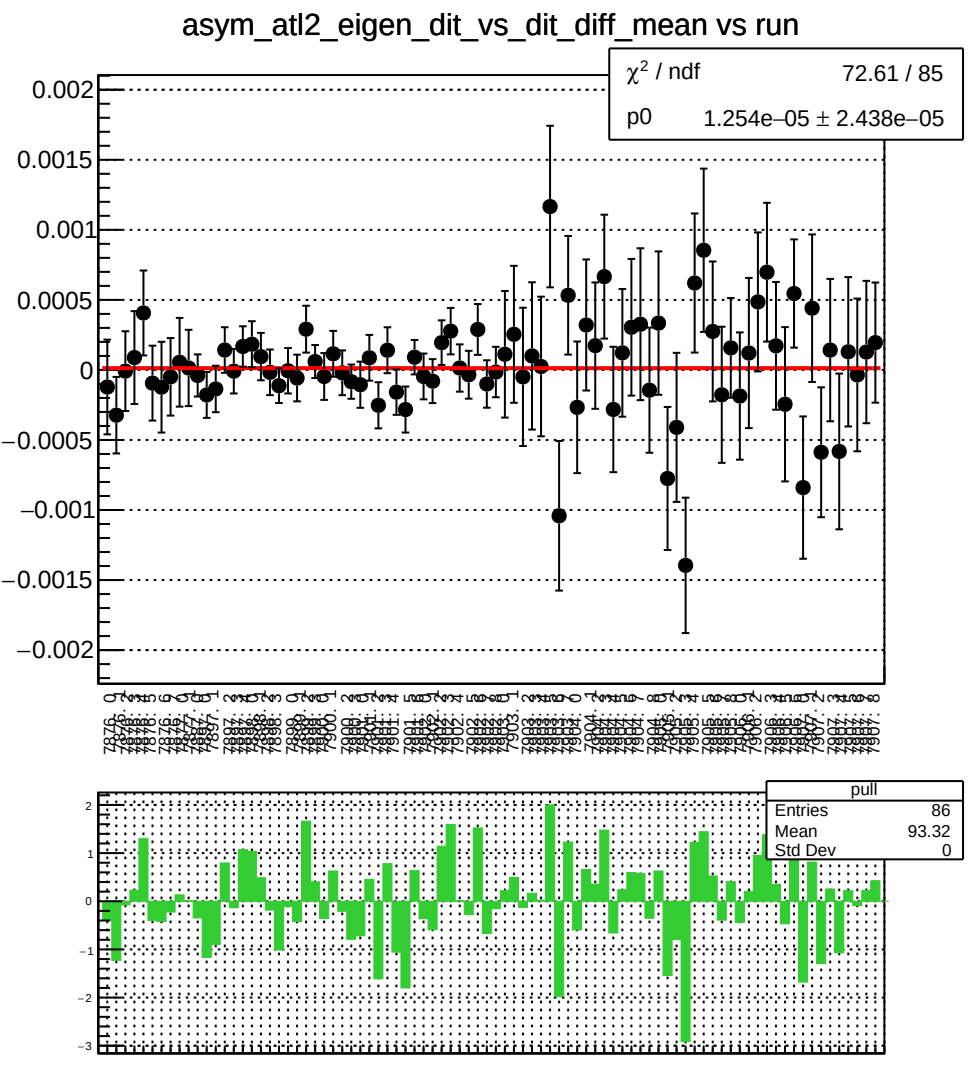

pull1D
Entries 86
Mean −0.02524
Std Dev 0.8976

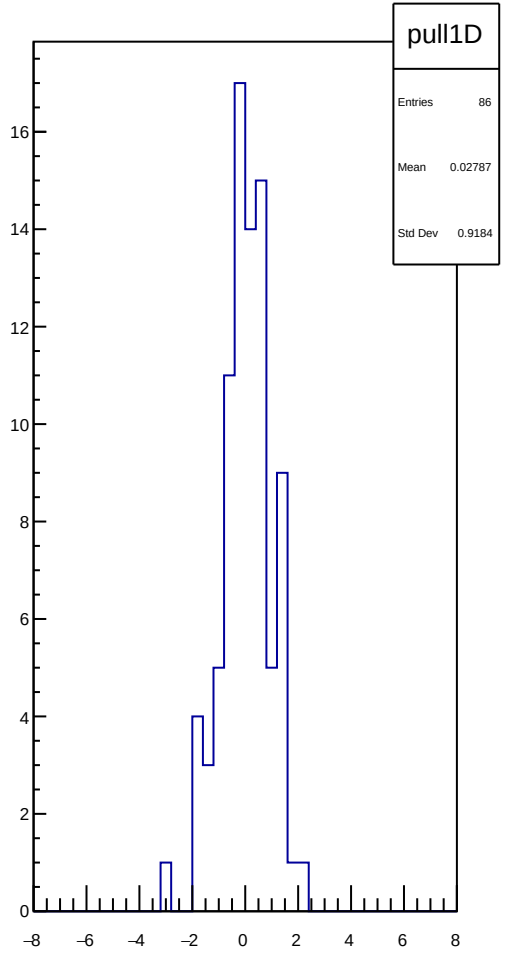

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 85
p0 461 ± 0.369
1200
1100
1000
900
800
700
600
500
400
300

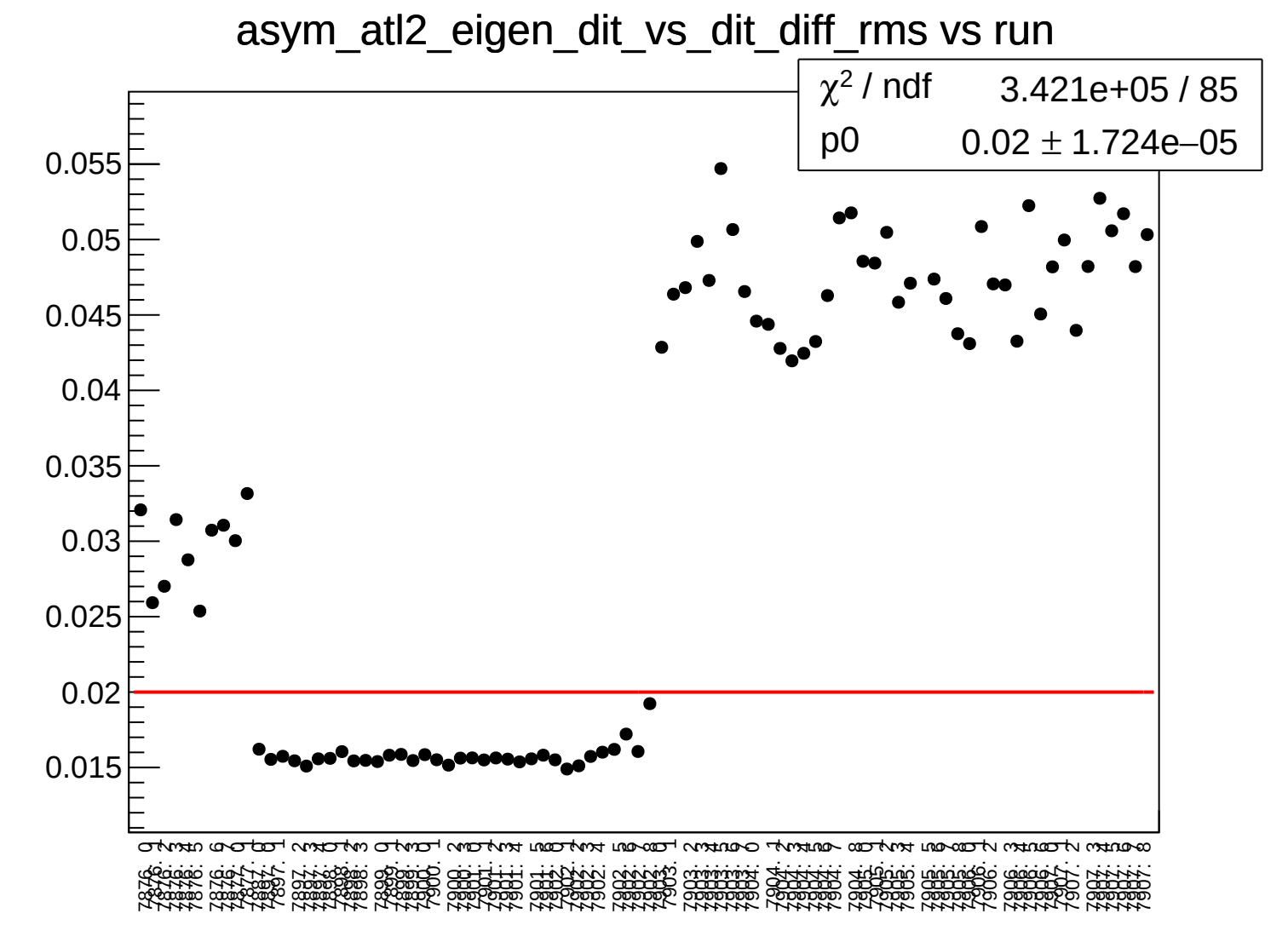

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.34 / 85
p0 0.02123 ± 0.5219
pull
Entries 86
Mean 128
Std Dev 0

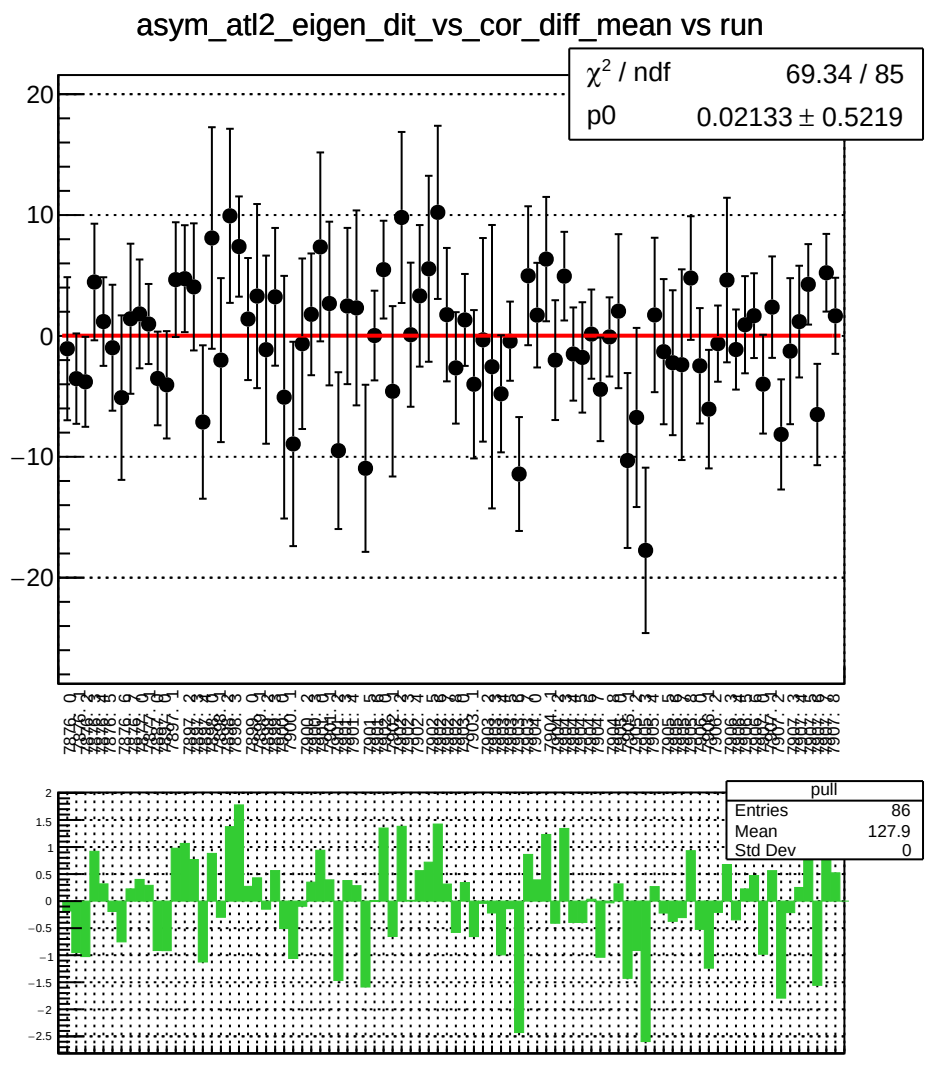

pull1D
Entries 86
Mean −0.02524
Std Dev 0.8976

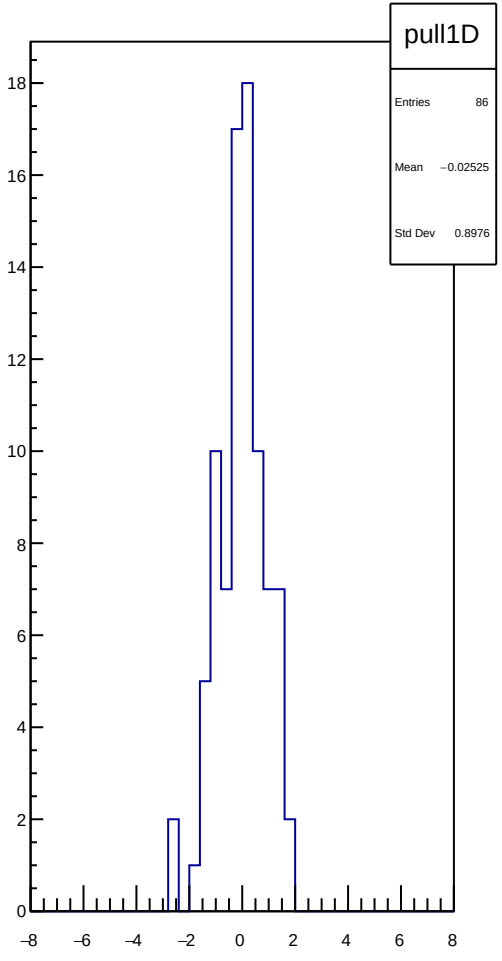

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.277e+05 / 85
p0 461 ± 0.369
1200
1100
1000
900
800
700
600
500
400
300

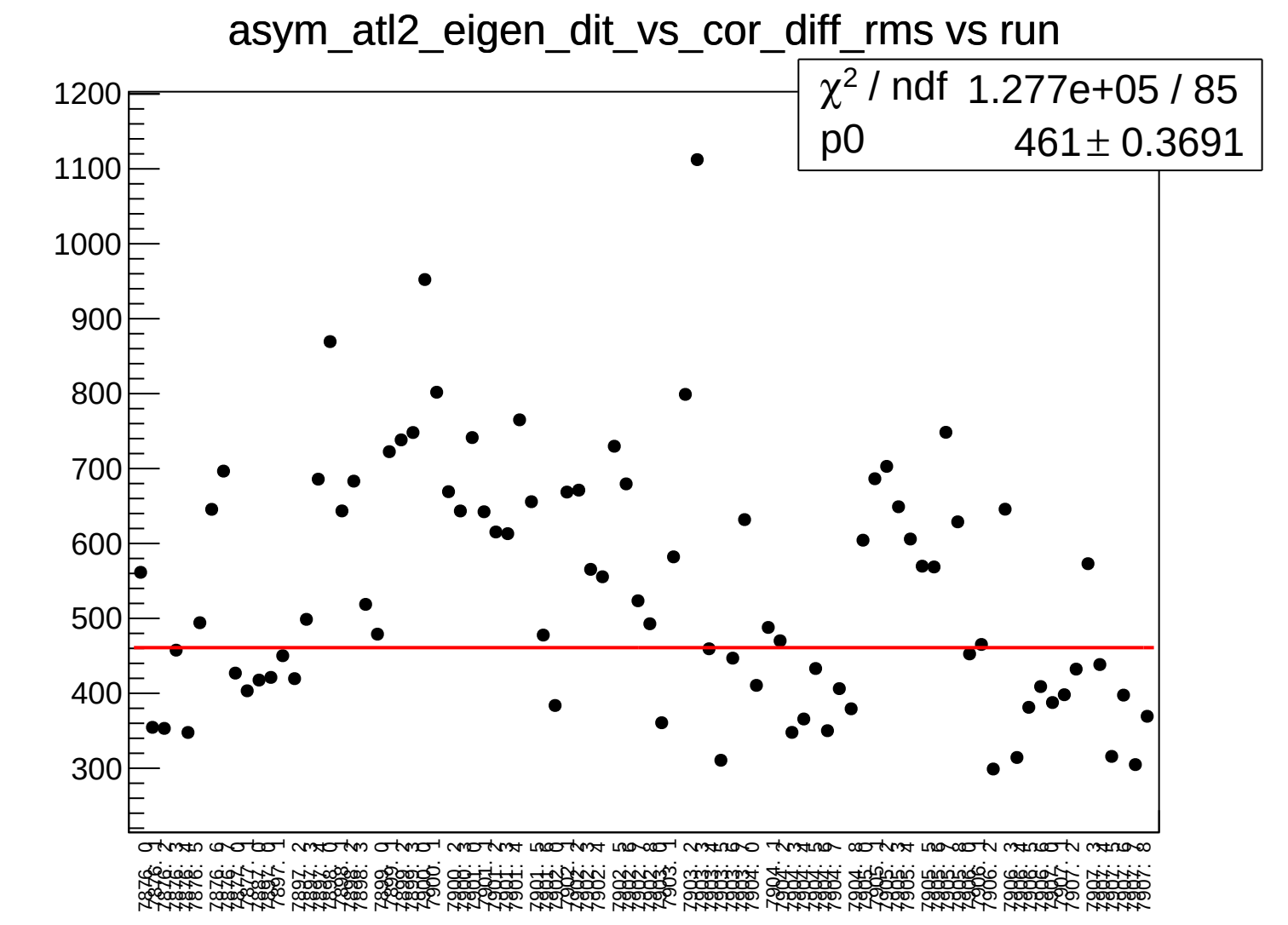

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.61 / 85
p0 1.254e−05 ± 2.438e−05
pull
Entries 86
Mean 93.32
Std Dev 0

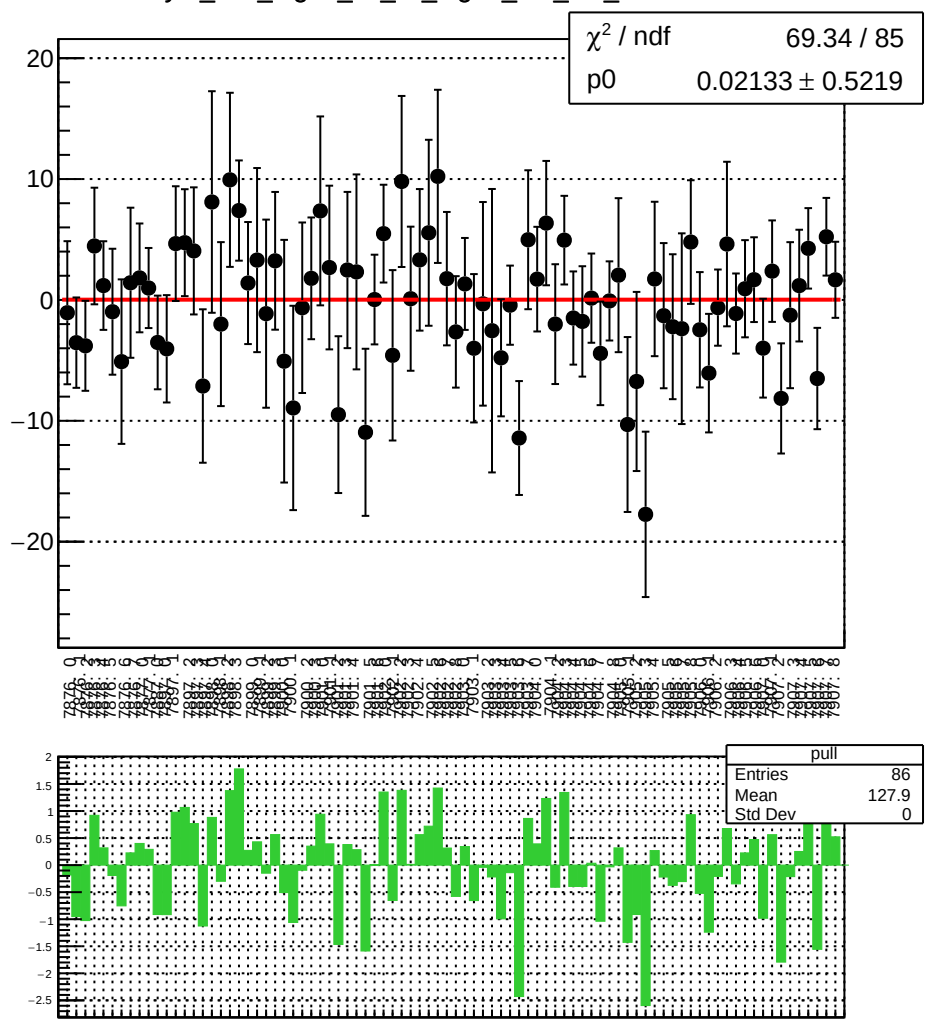

pull1D
Entries 86
Mean 0.02787
Std Dev 0.9184

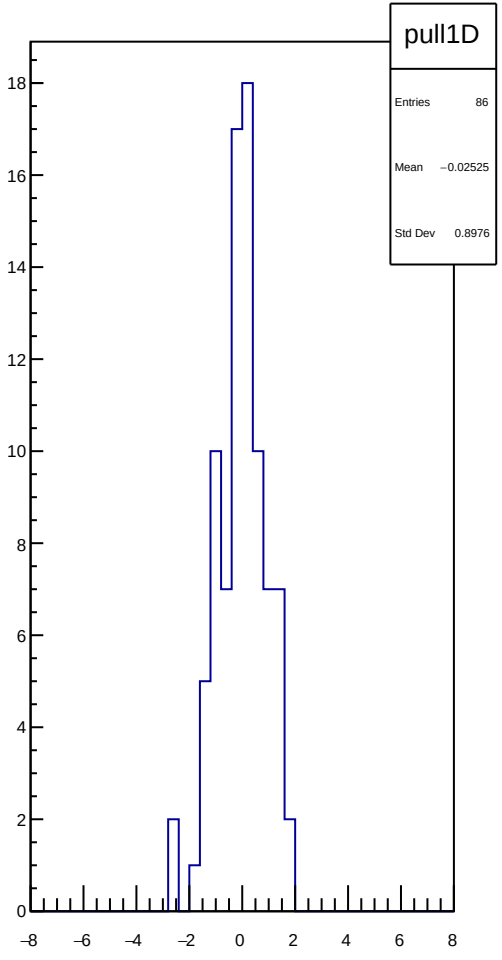

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.421e+05 / 85
p0 0.02 ± 1.724e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

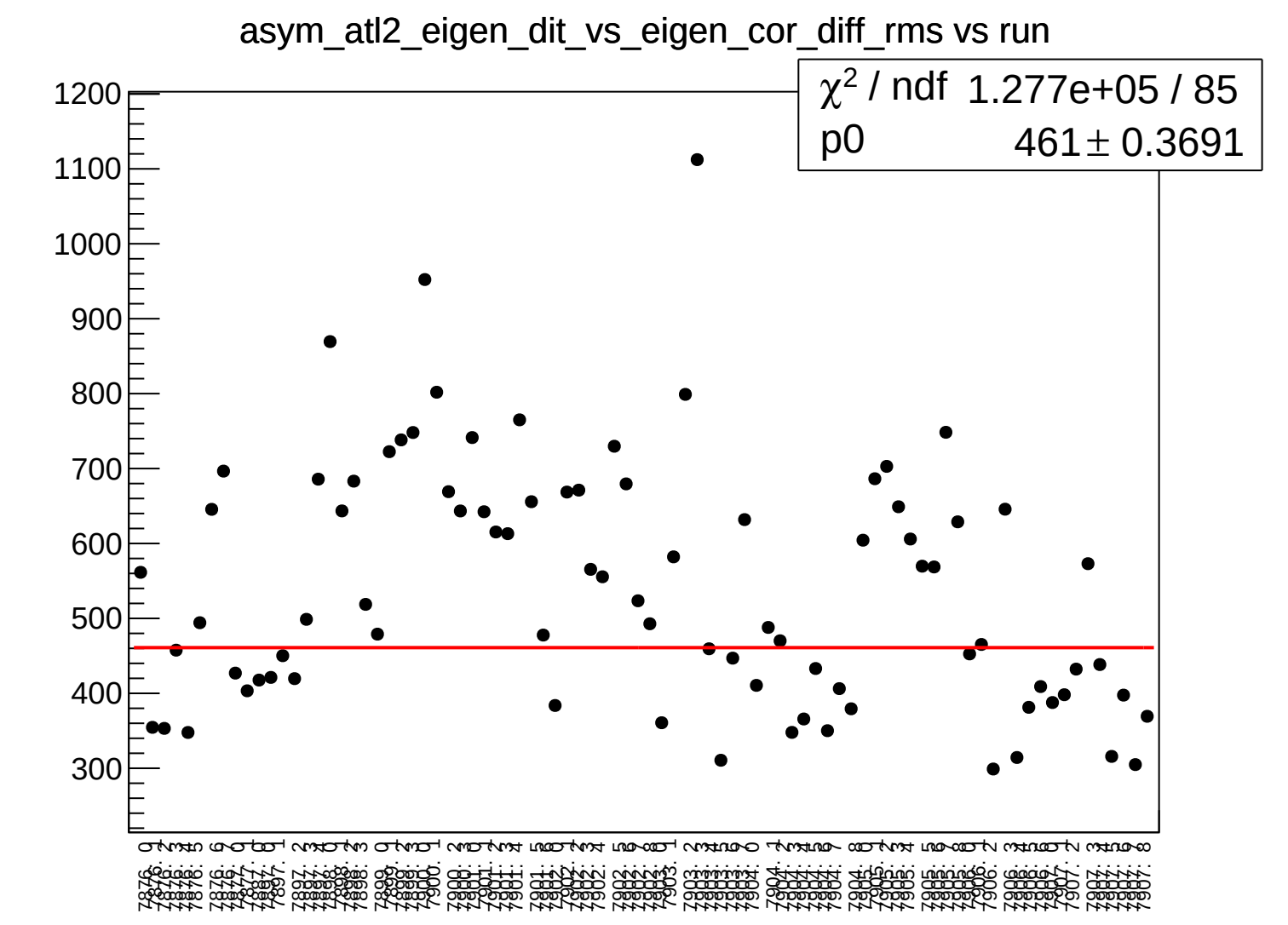

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.34 / 85
p0 0.02133 ± 0.5219
pull
Entries 86
Mean 127.9
Std Dev 0

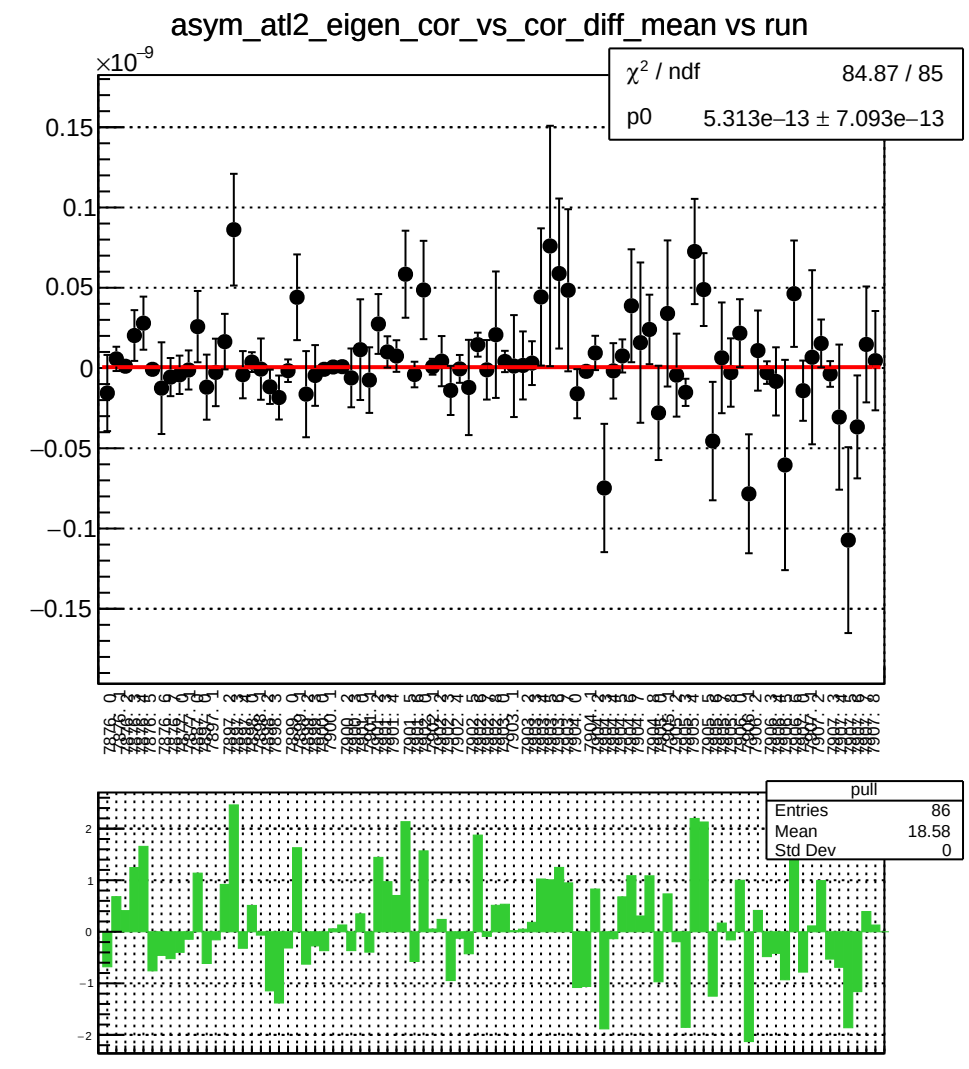

pull1D
Entries 86
Mean −0.02525
Std Dev 0.8976

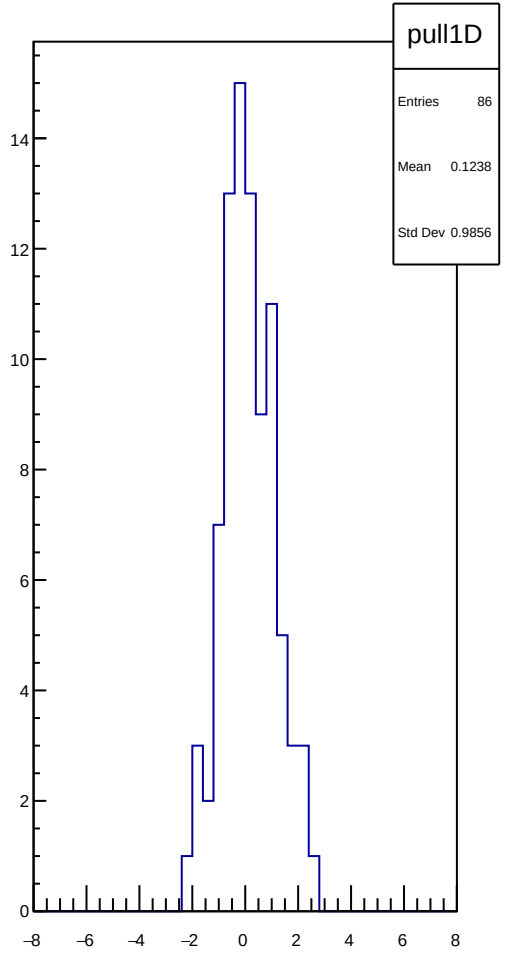

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 85
p0 461 ± 0.3691
1200
1100
1000
900
800
700
600
500
400
300

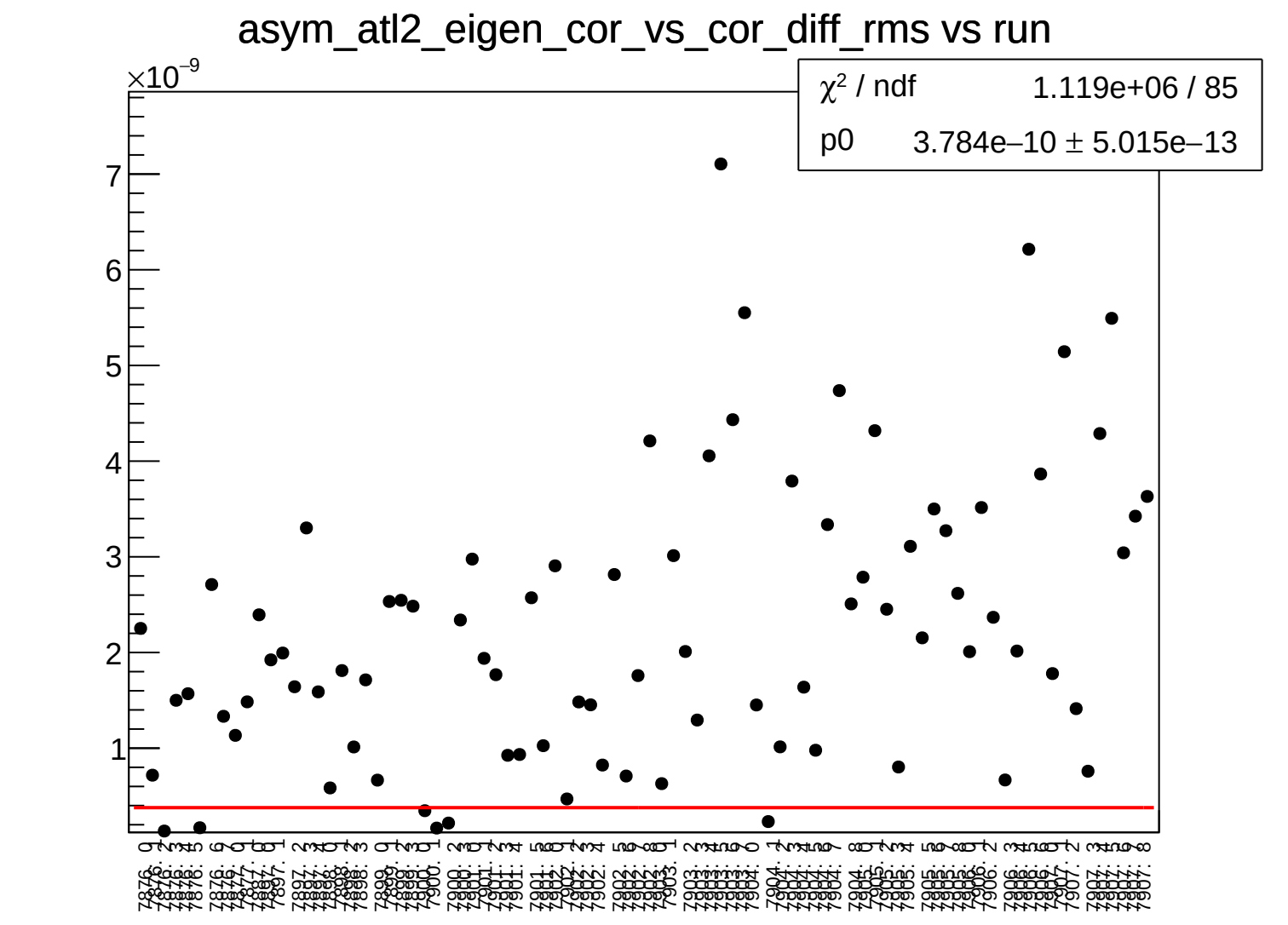

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.34 / 85
p0 0.02133 ± 0.5219
pull
Entries 86
Mean 127.9
Std Dev 0

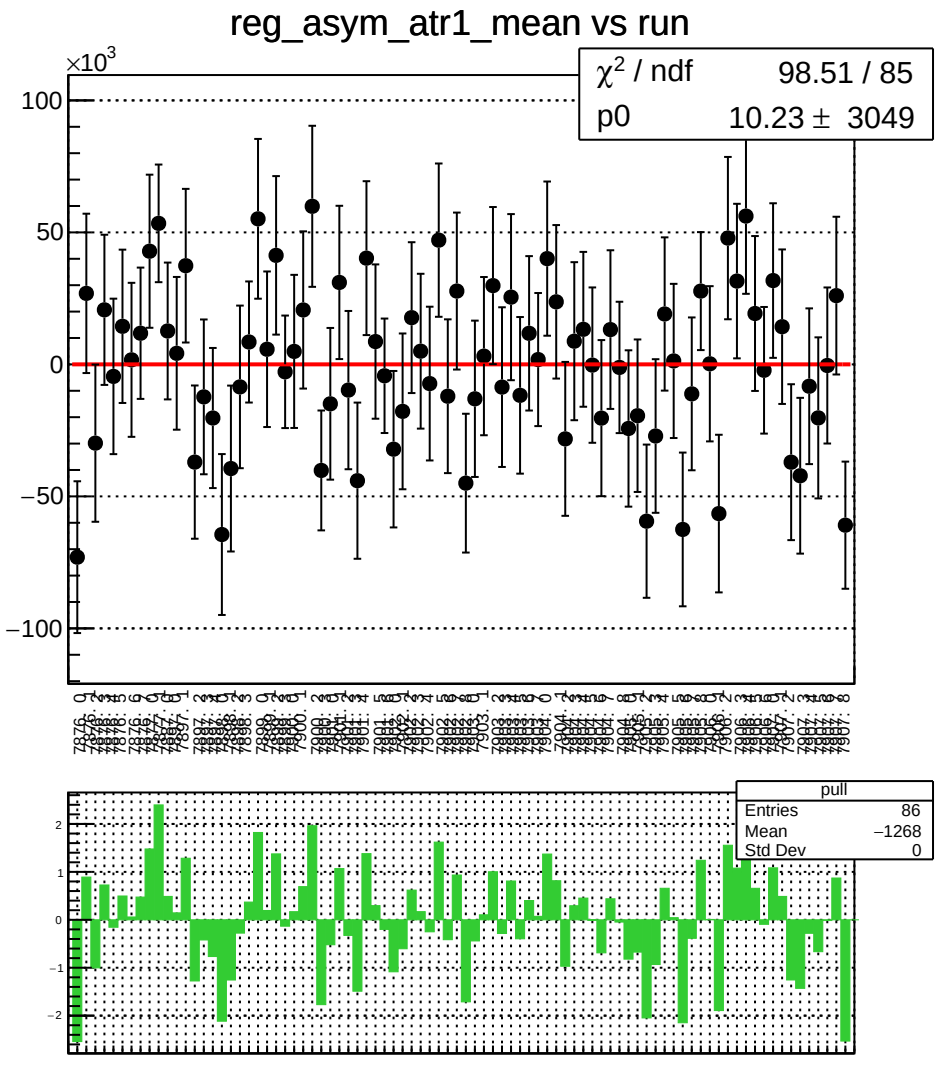

pull1D
Entries 86
Mean −0.02525
Std Dev 0.8976

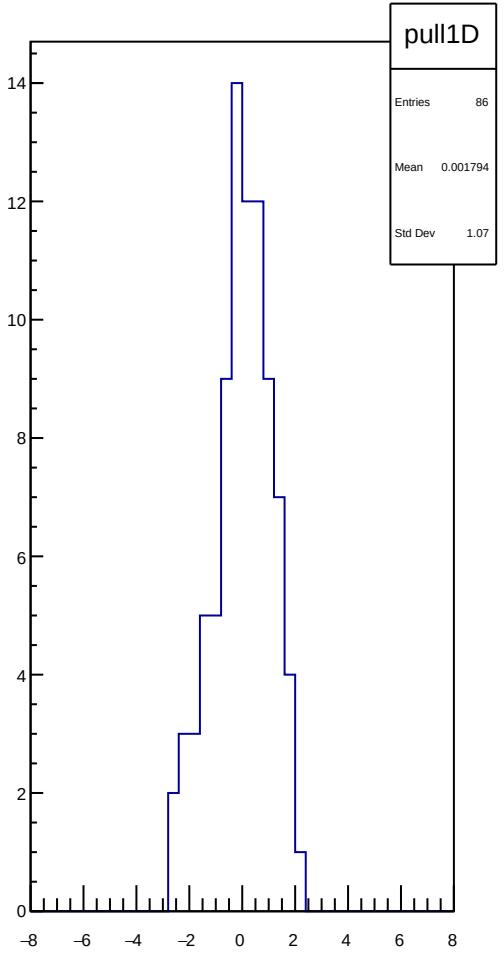

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 85
p0 461 ± 0.3691
1200
1100
1000
900
800
700
600
500
400
300

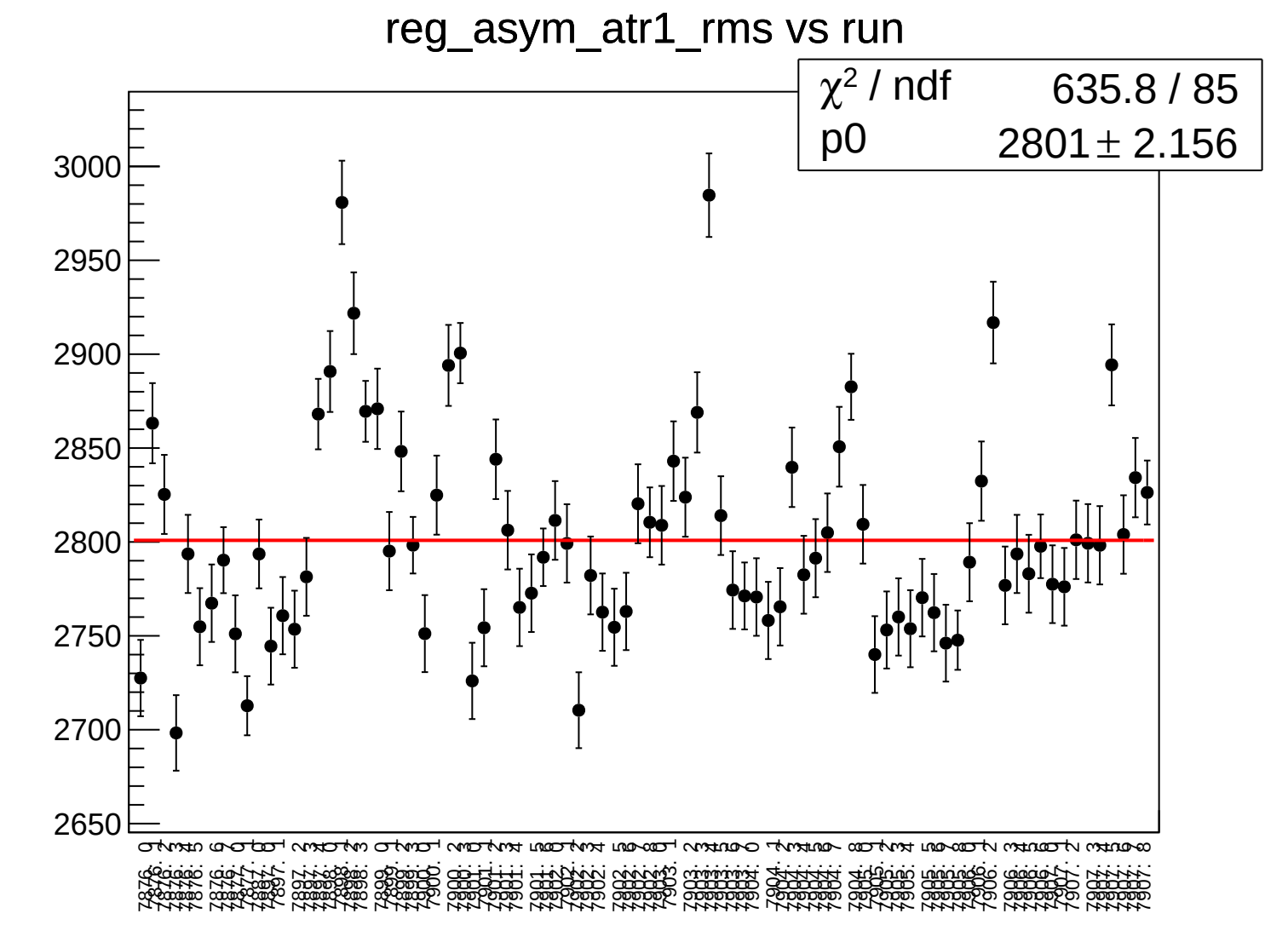

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 84.87 / 85
p0 5.313e−13 ± 7.093e−13
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 18.58
Std Dev 0
2
1
0
−1
−2

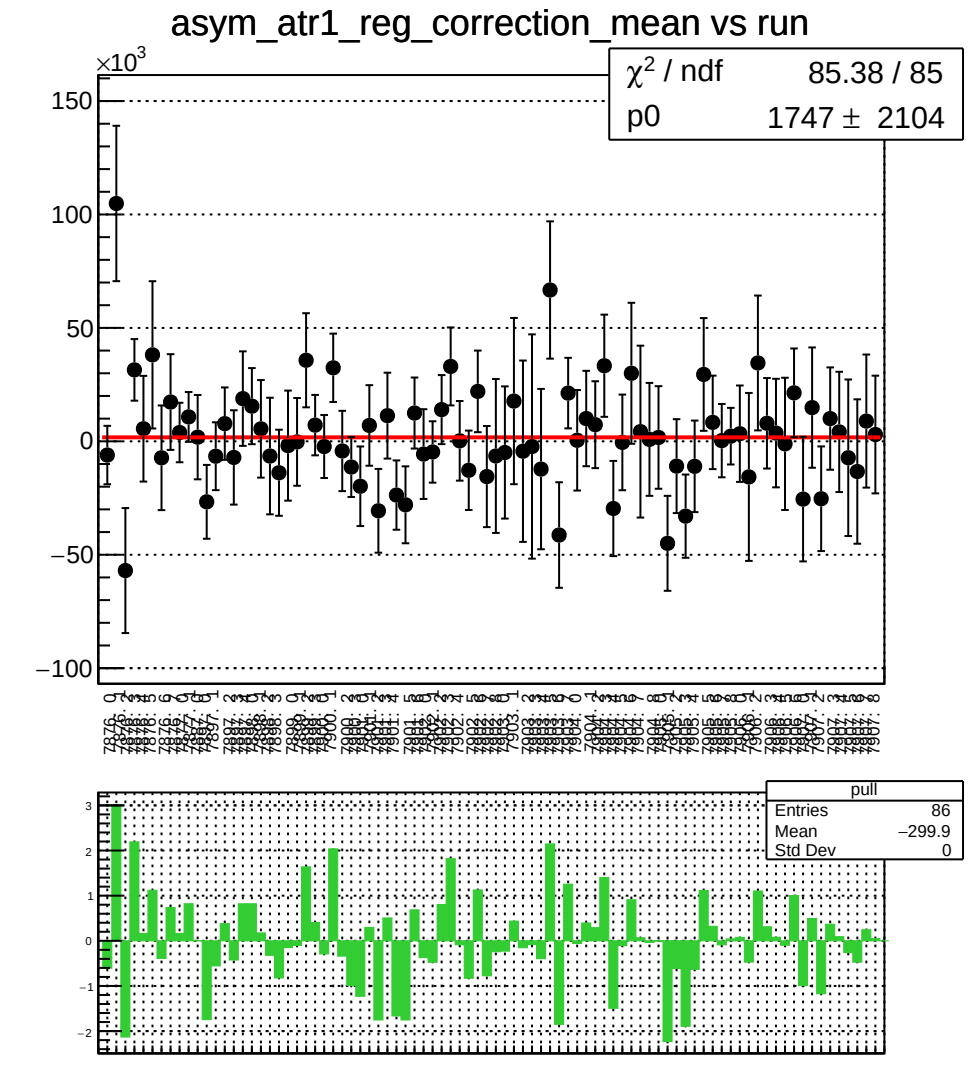

pull1D
Entries 86
Mean 0.1238
Std Dev 0.9856
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

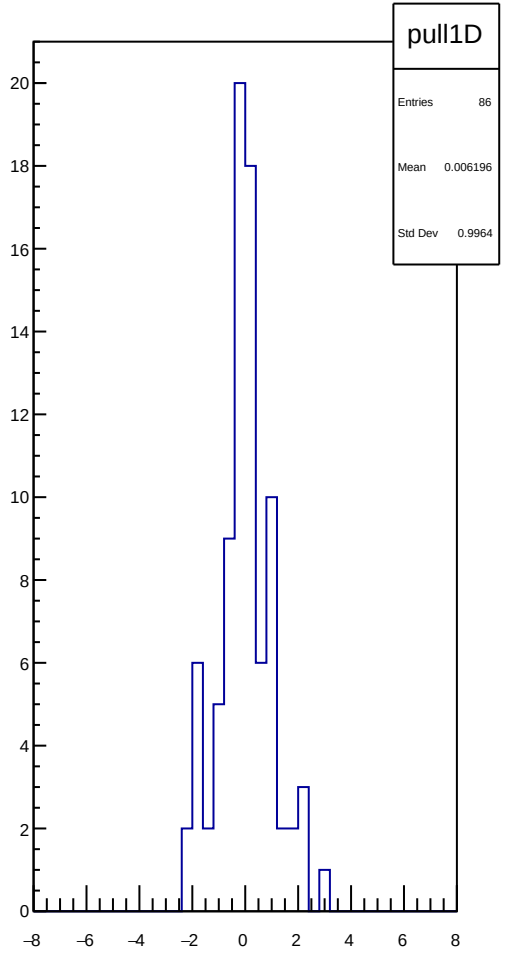

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.119e+06 / 85
p0 3.784e−10 ± 5.015e−13
7
6
5
4
3
2
1

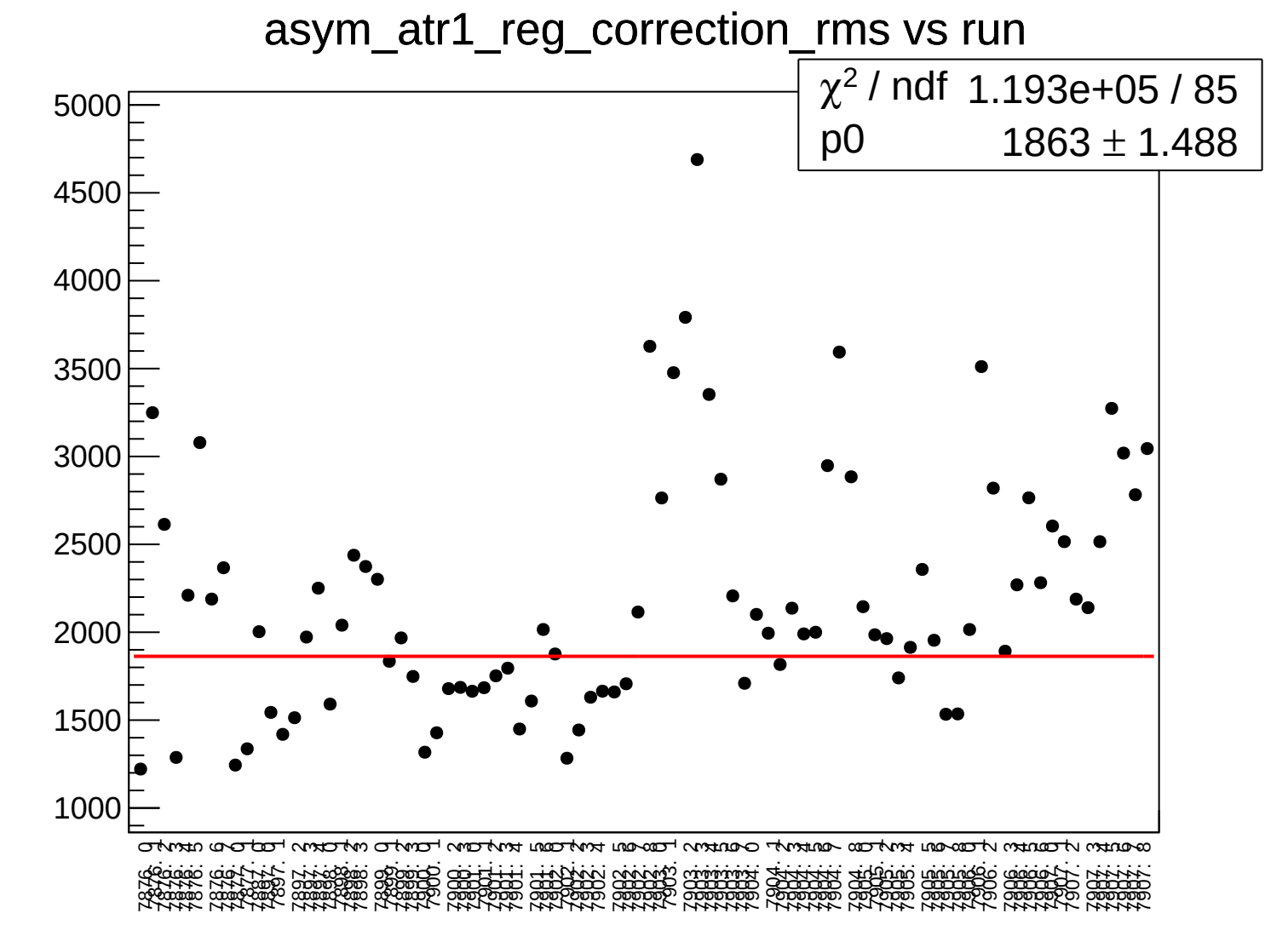

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 98.51 / 85
p0 10.23 ± 3049
100
50
0
−50
−100
pull
Entries 86
Mean −1268
Std Dev 0
2
1
0
−1
−2

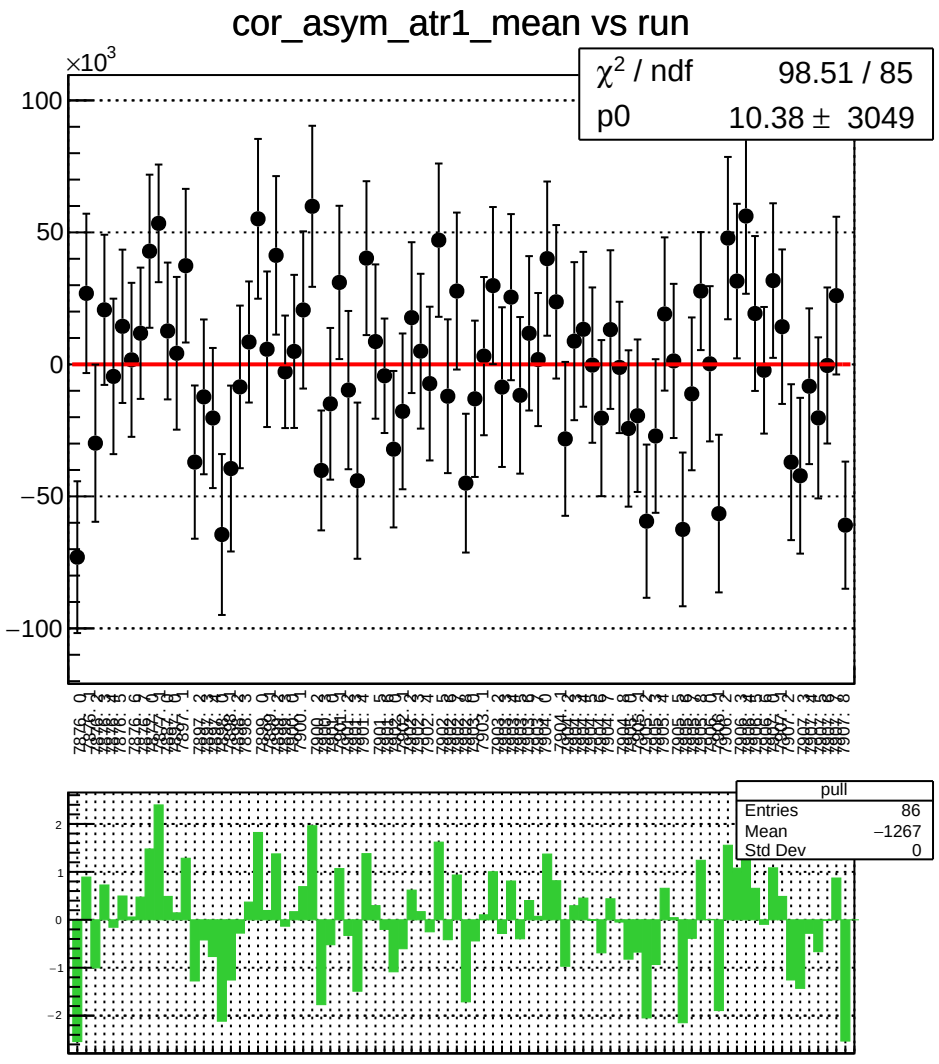

pull1D
Entries 86
Mean 0.001794
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

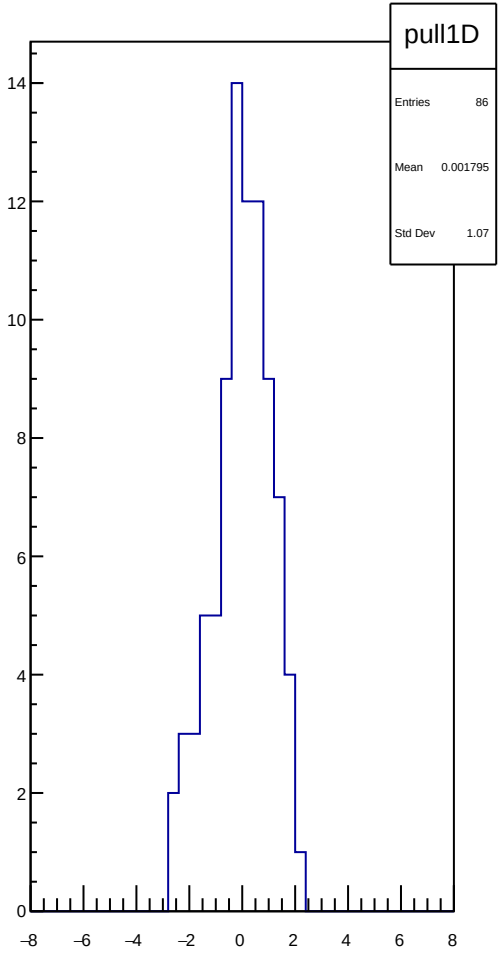

reg_asym_atr1_rms vs run
χ² / ndf 635.8 / 85
p0 2801 ± 2.156
3000
2950
2900
2850
2800
2750
2700
2650

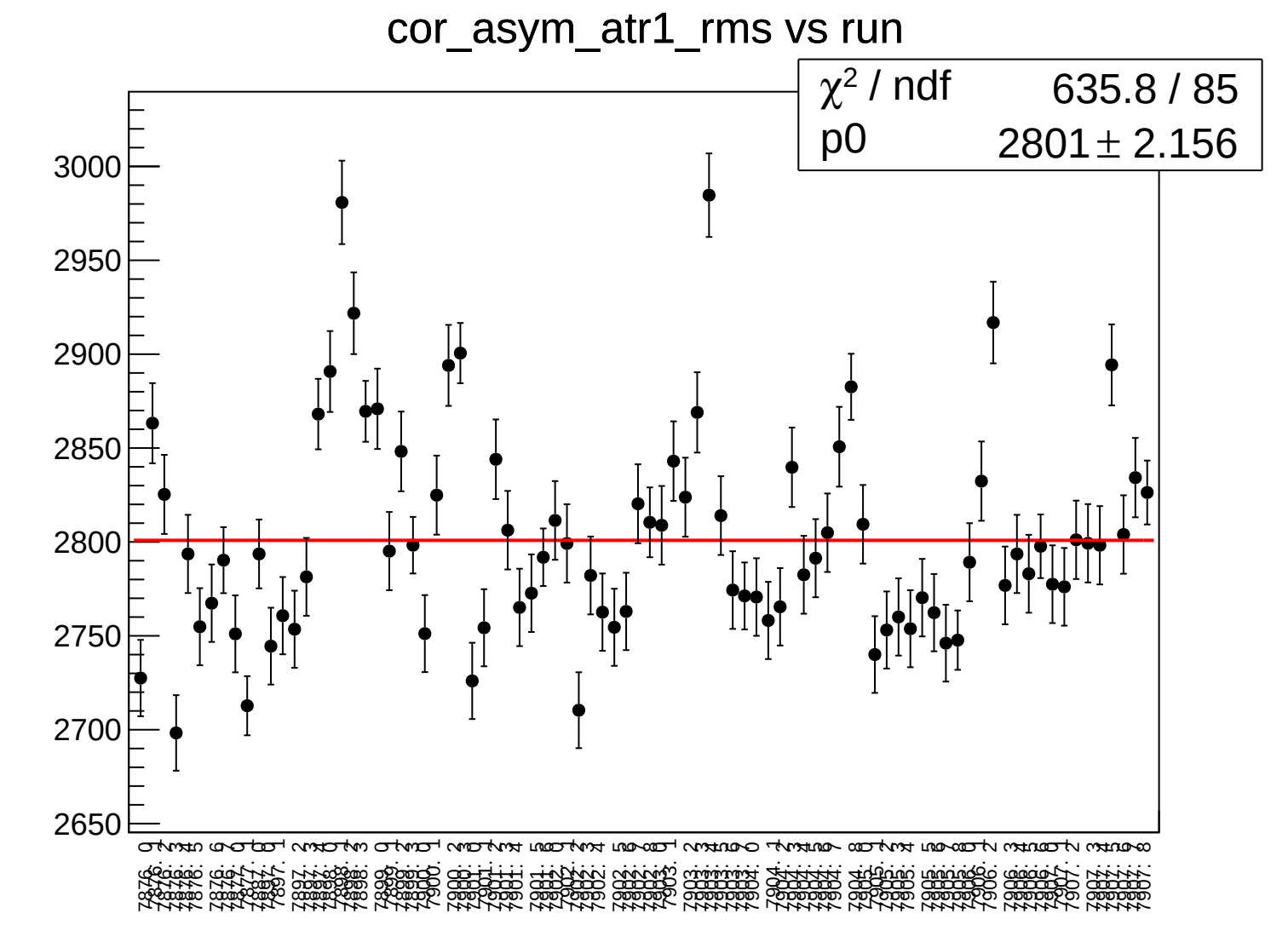

asym_atr1_reg_correction_mean vs run
×10^3
χ² / ndf 85.38 / 85
p0 1747 ± 2104
150
100
50
0
−50
−100
pull
Entries 86
Mean −299.9
Std Dev 0
3
2
1
0
−1
−2

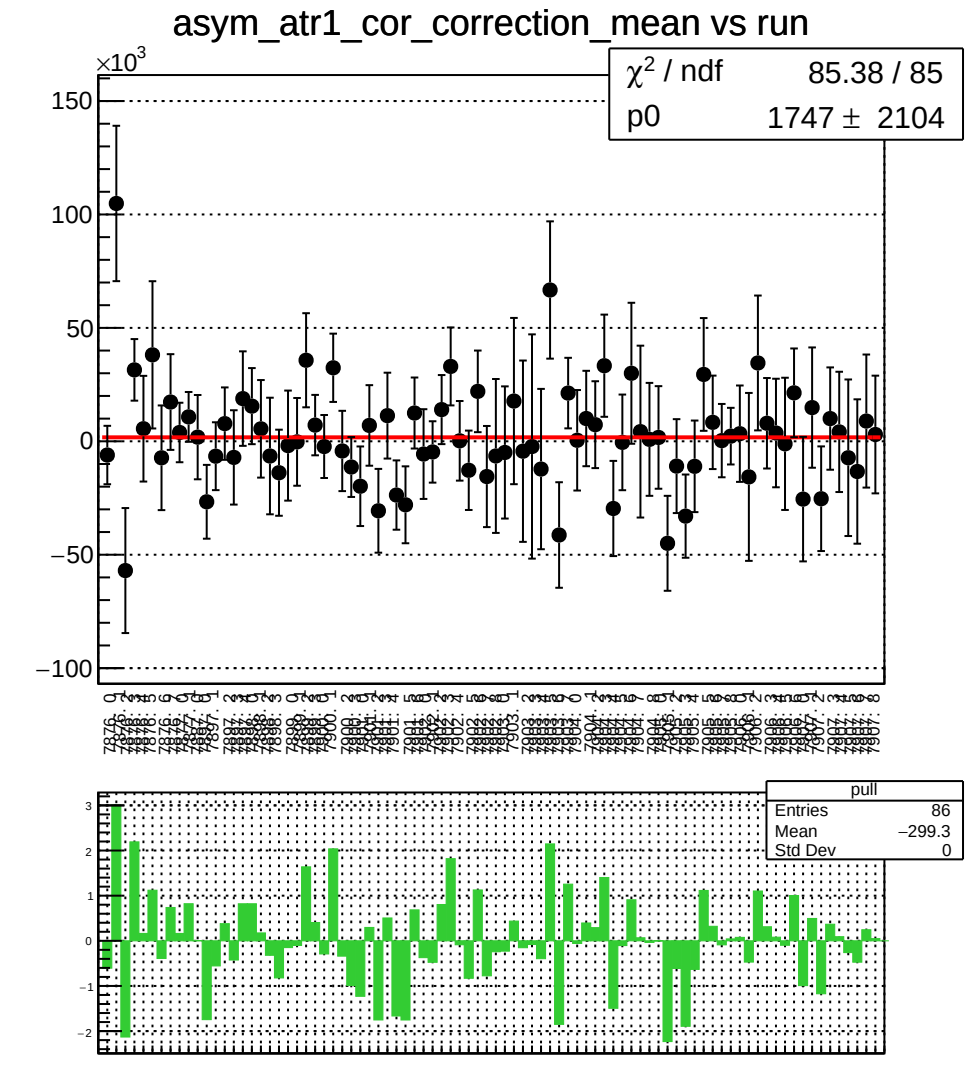

pull1D
Entries 86
Mean 0.006196
Std Dev 0.9964
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

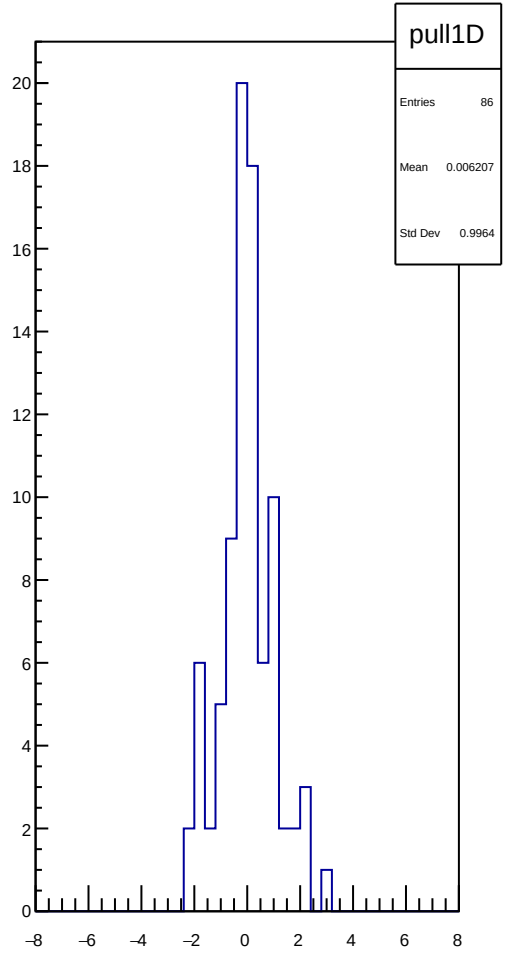

asym_atr1_reg_correction_rms vs run
χ^2 / ndf 1.193e+05 / 85
p0 1863 ± 1.488
5000
4500
4000
3500
3000
2500
2000
1500
1000

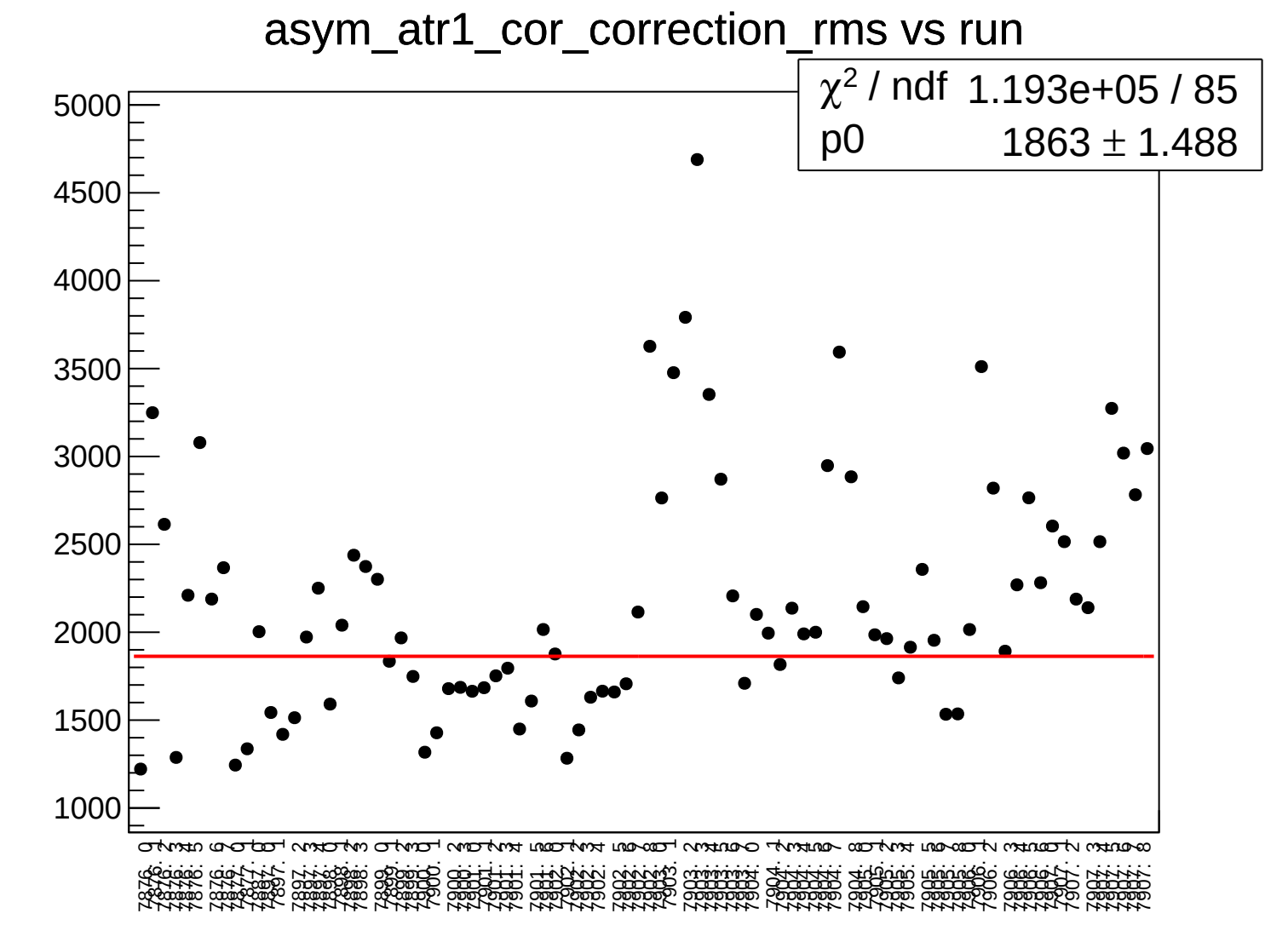

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 98.51 / 85
p0 10.38 ± 3049
pull
Entries 86
Mean −1267
Std Dev 0

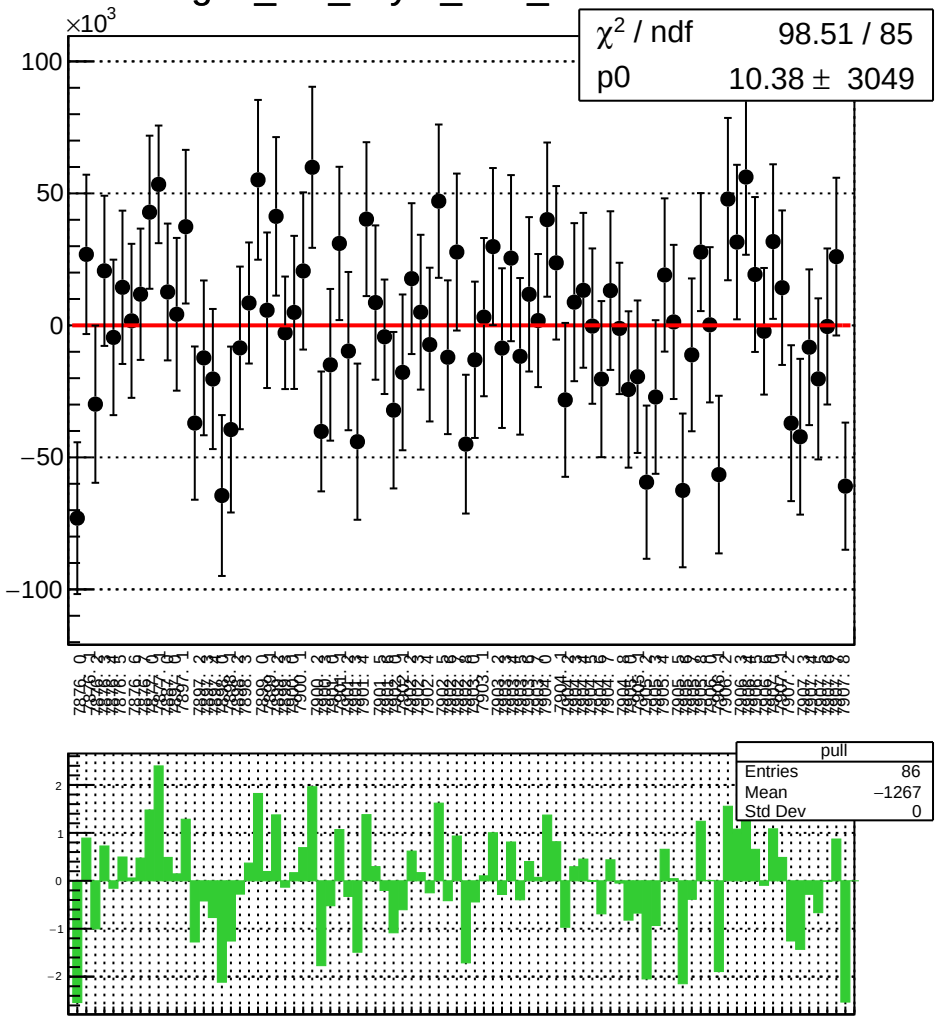

pull1D
Entries 86
Mean 0.001795
Std Dev 1.07

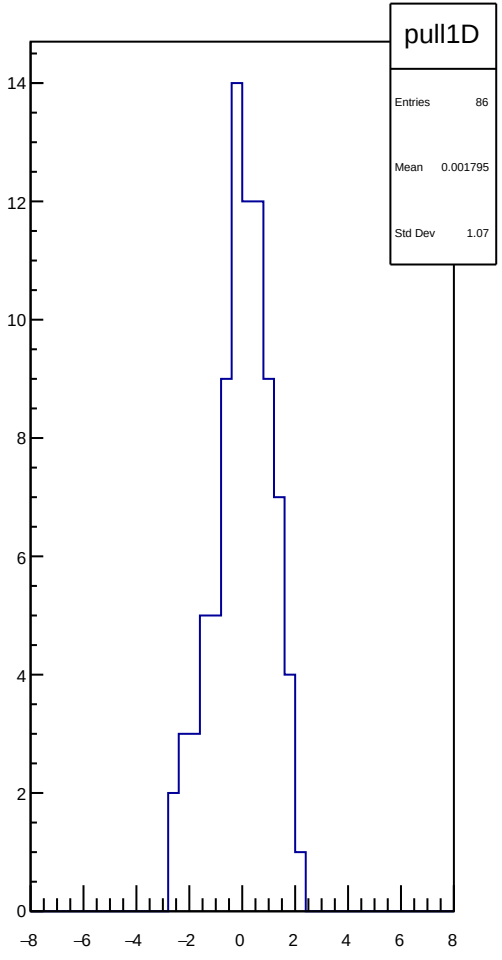

cor_asym_atr1_rms vs run
χ² / ndf 635.8 / 85
p0 2801 ± 2.156
3000
2950
2900
2850
2800
2750
2700
2650

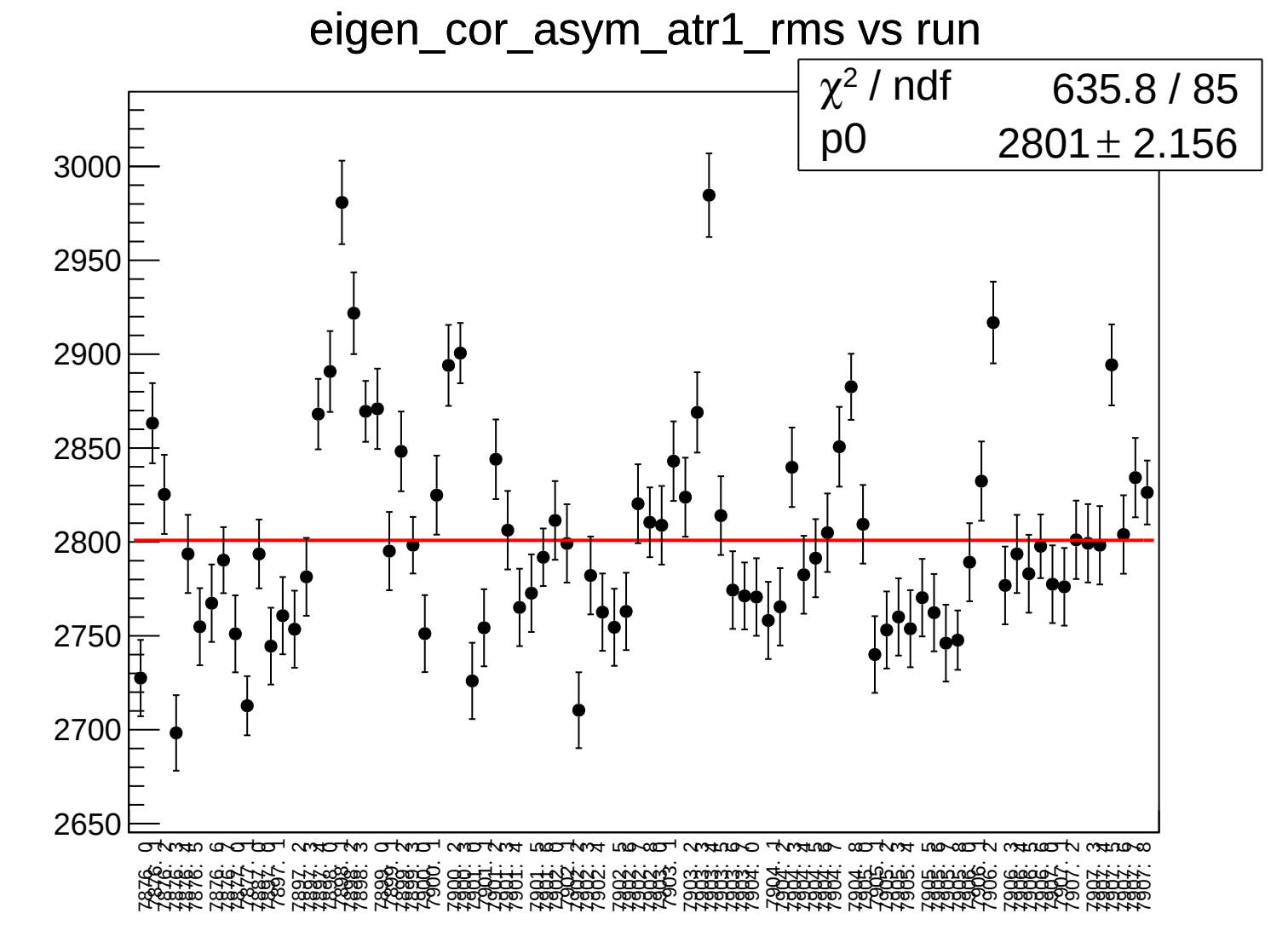

asym_atr1_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.38 / 85
p0 1747 ± 2104
150
100
50
0
−50
−100
pull
Entries 86
Mean −299.3
Std Dev 0
3
2
1
0
−1
−2

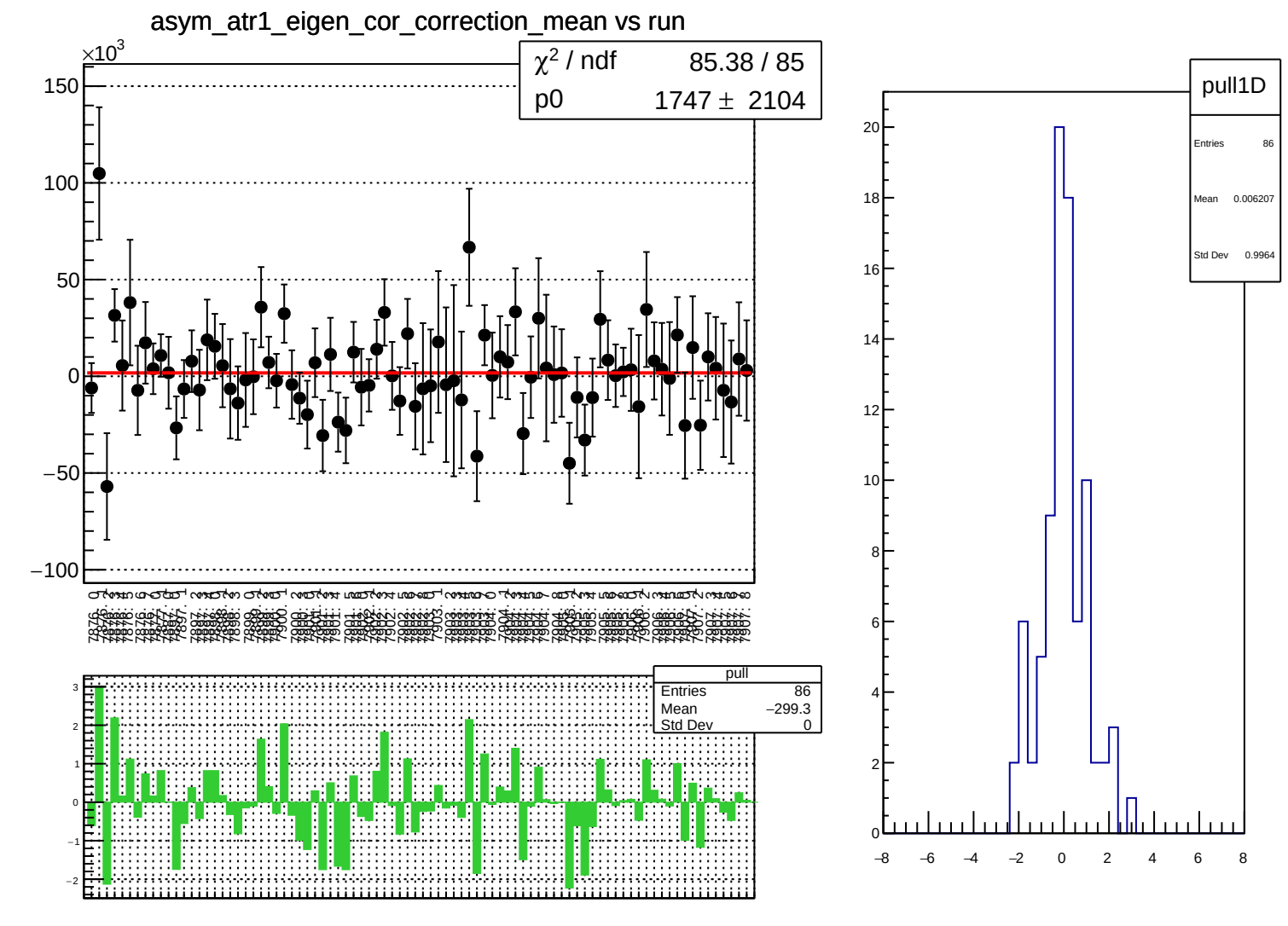

pull1D
Entries 86
Mean 0.006207
Std Dev 0.9964
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

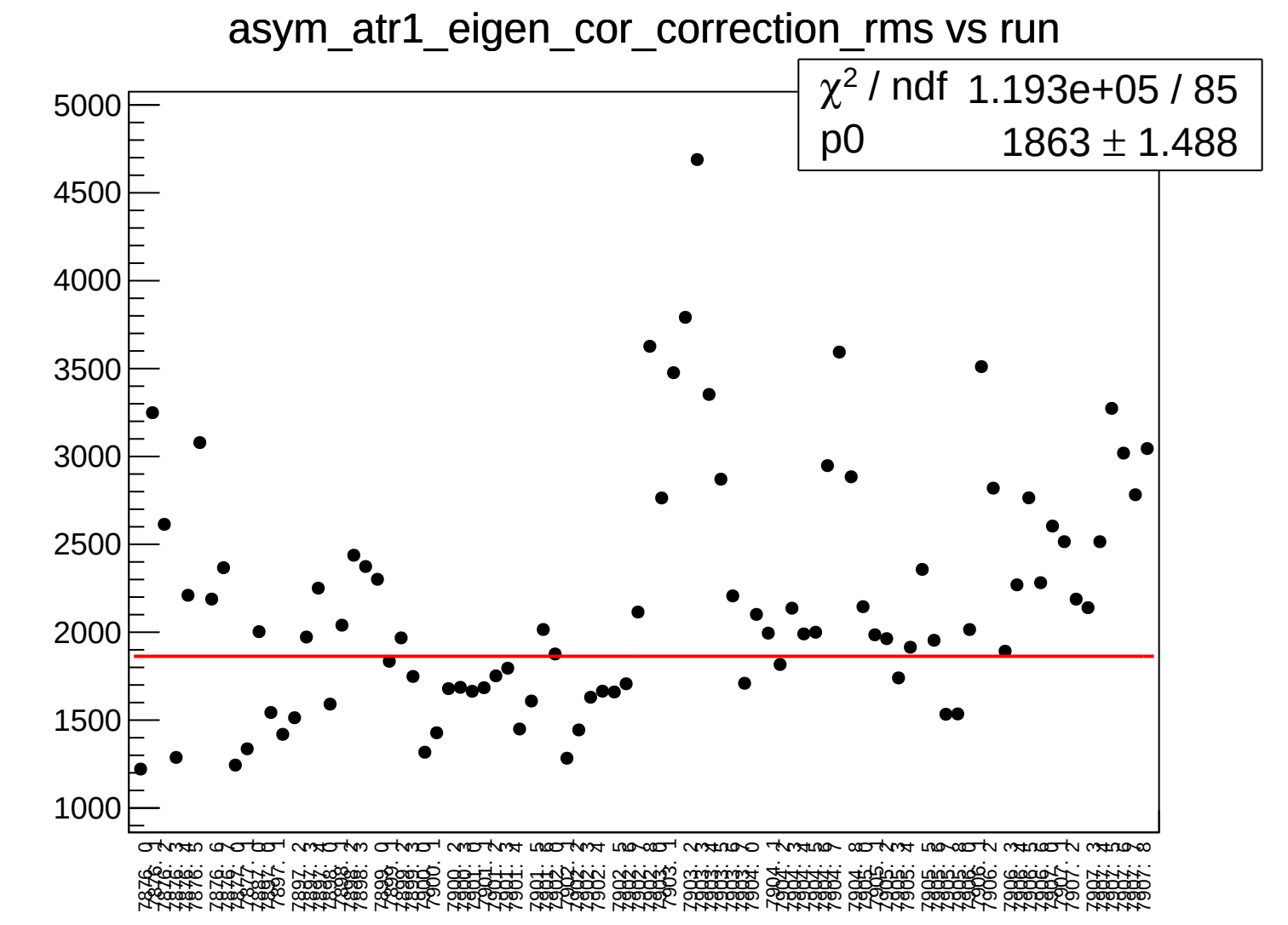

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.193e+05 / 85
p0 1863 ± 1.488
5000
4500
4000
3500
3000
2500
2000
1500
1000

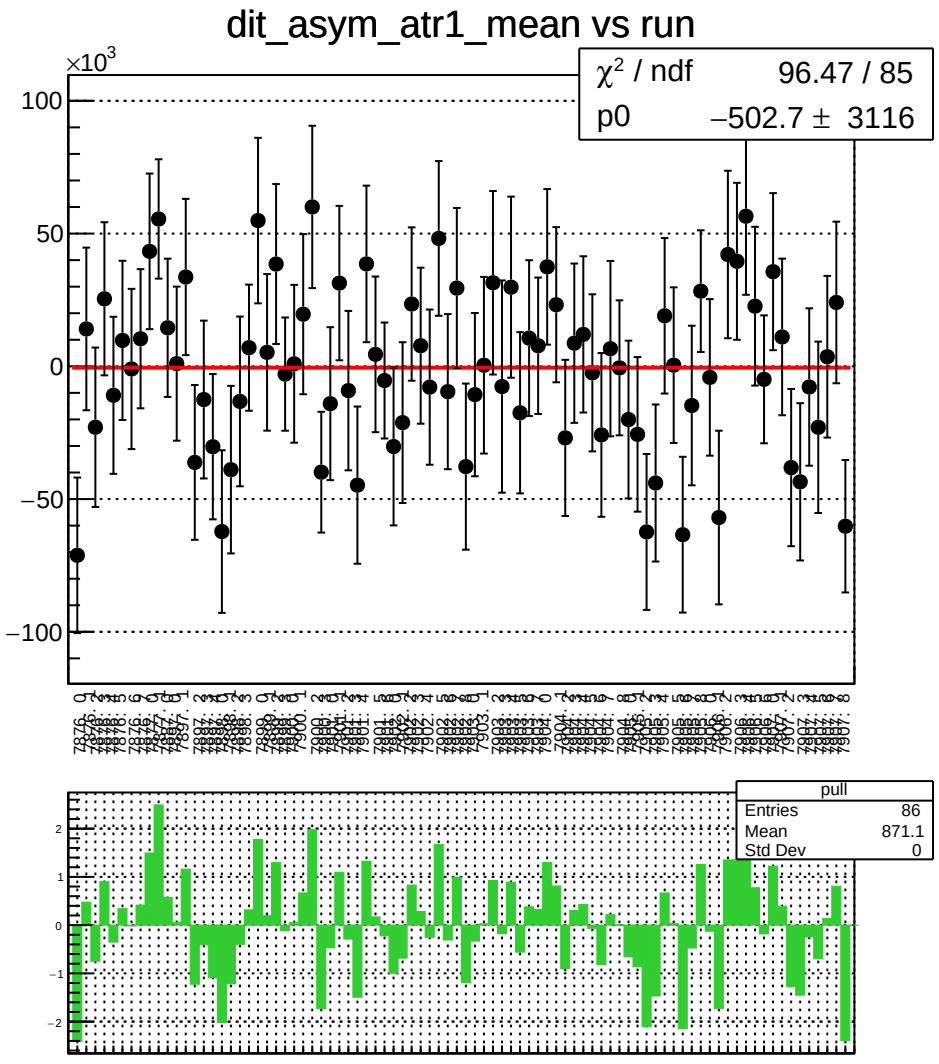

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 98.51 / 85
p0 10.38 ± 3049
100
50
0
−50
−100
pull
Entries 86
Mean −1267
Std Dev 0
2
1
0
−1
−2

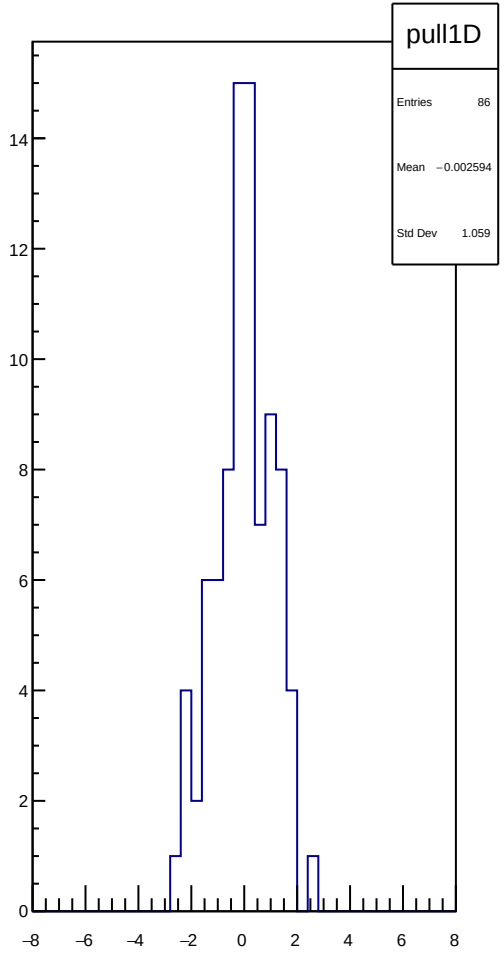

pull1D
Entries 86
Mean 0.001795
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

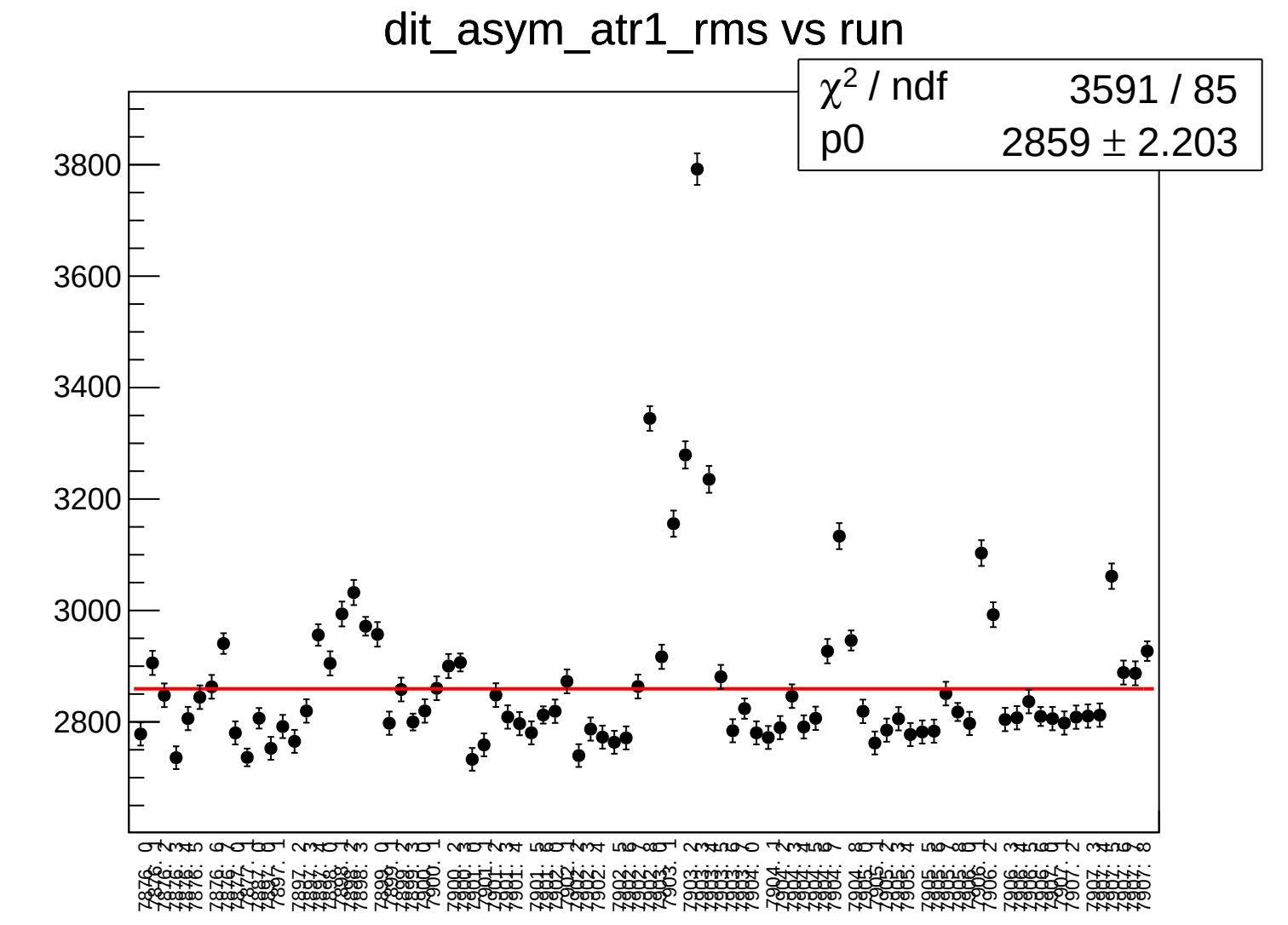

eigen_cor_asym_atr1_rms vs run
χ² / ndf 635.8 / 85
p0 2801 ± 2.156
3000
2950
2900
2850
2800
2750
2700
2650

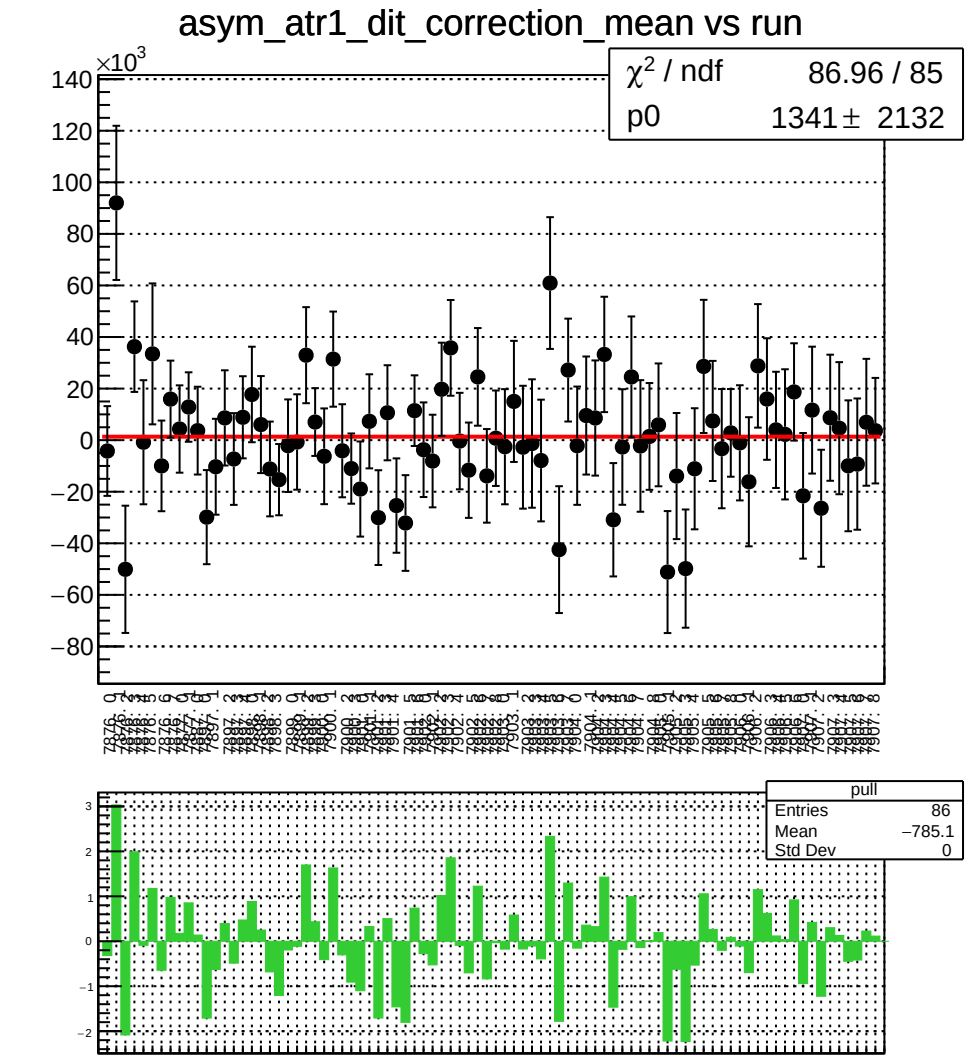

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 85.38 / 85
p0 1747 ± 2104
×10³
150
100
50
0
−50
−100
pull
Entries 86
Mean −299.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.006207
Std Dev 0.9964
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

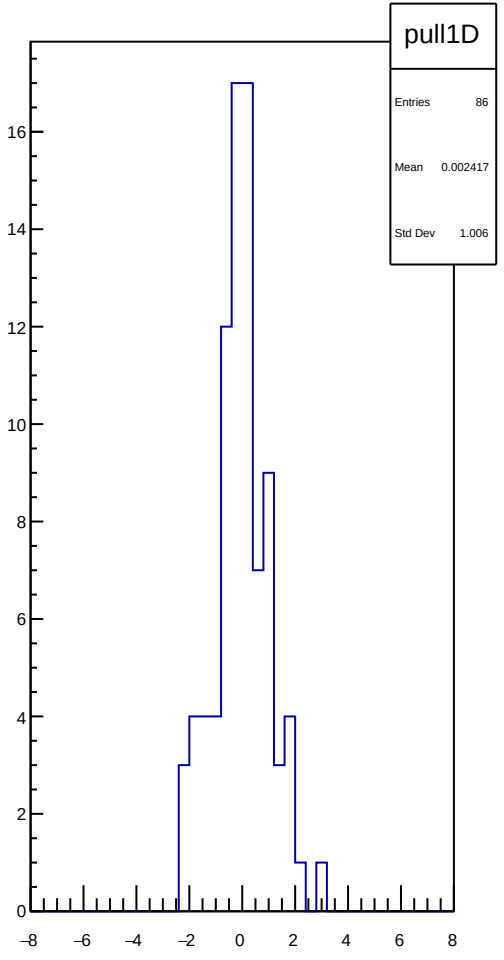

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.193e+05 / 85
p0 1863 ± 1.488
5000
4500
4000
3500
3000
2500
2000
1500
1000

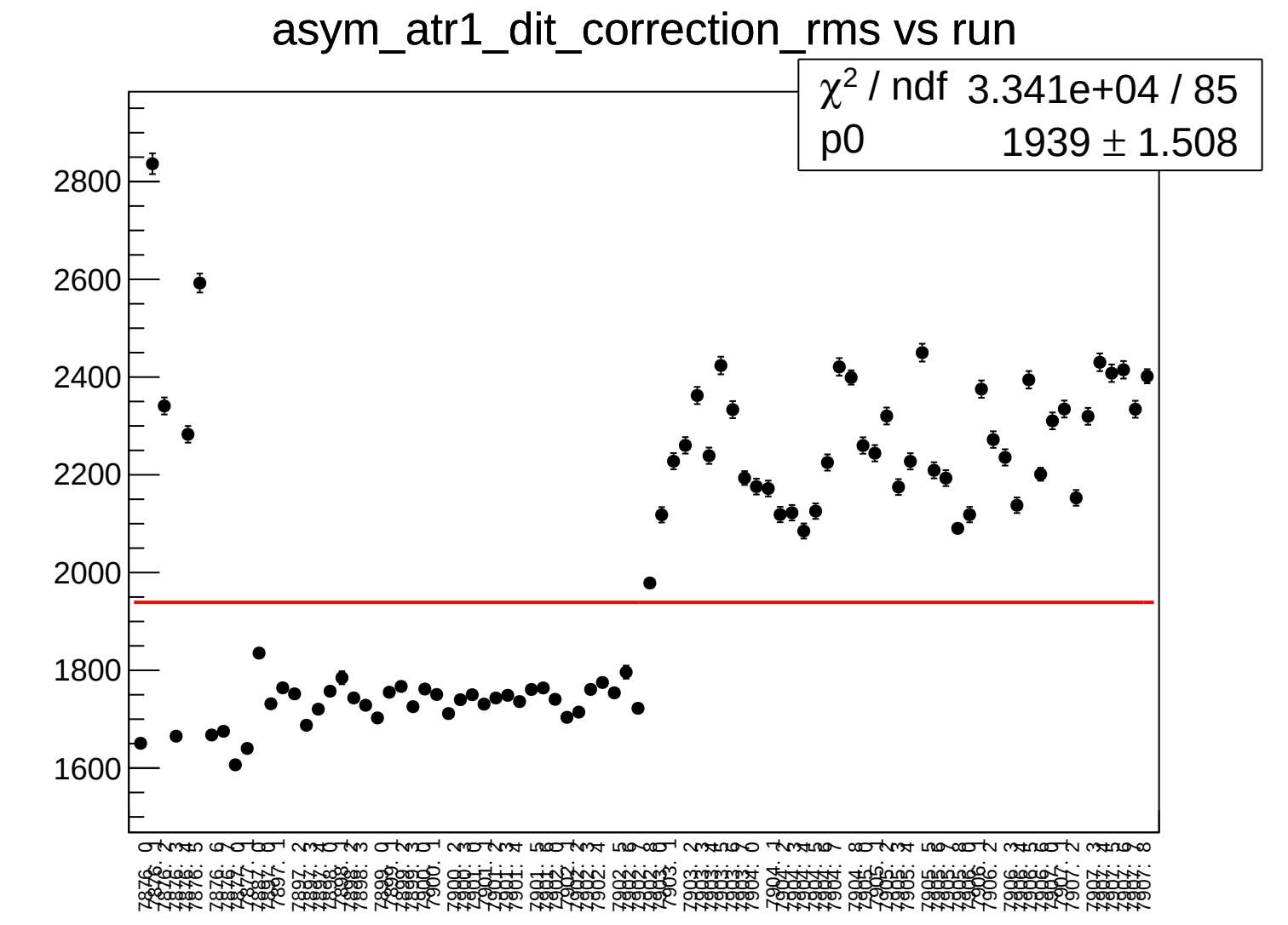

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 96.47 / 85
p0 −502.7 ± 3116
100
50
0
−50
−100
pull
Entries 86
Mean 871.1
Std Dev 0
2
1
0
−1
−2

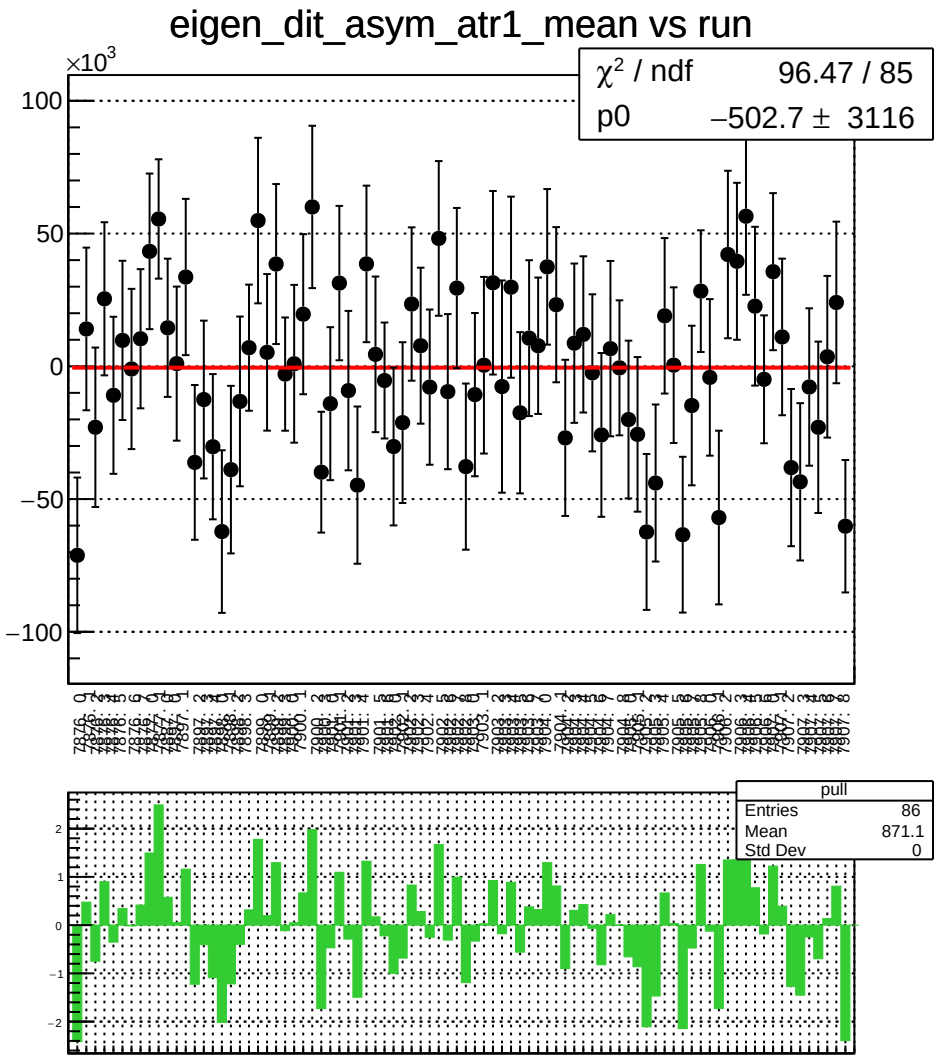

pull1D
Entries 86
Mean −0.002594
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

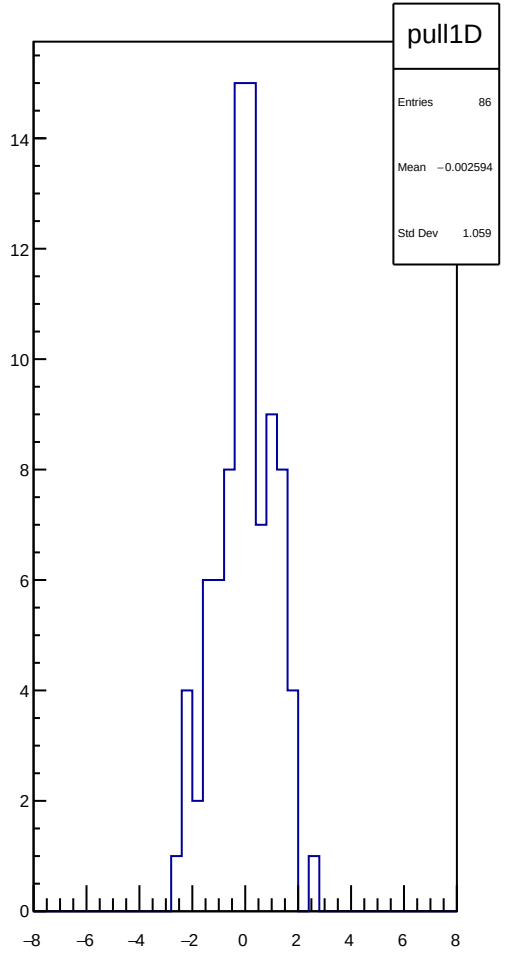

dit_asym_atr1_rms vs run
χ^2 / ndf 3591 / 85
p0 2859 ± 2.203
3800
3600
3400
3200
3000
2800

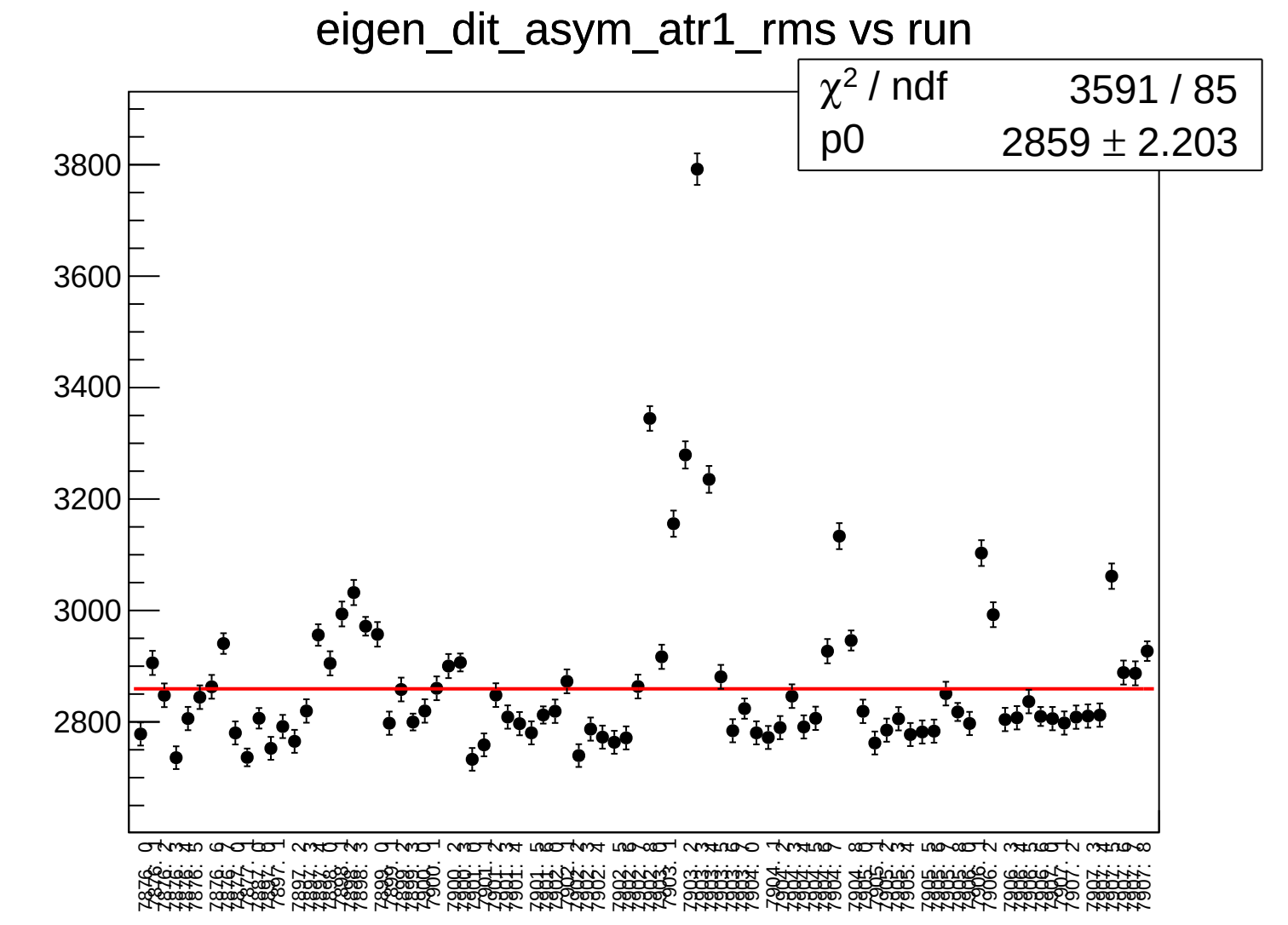

asym_atr1_dit_correction_mean vs run
χ² / ndf 86.96 / 85
p0 1341 ± 2132
×10³
pull
Entries 86
Mean −785.1
Std Dev 0

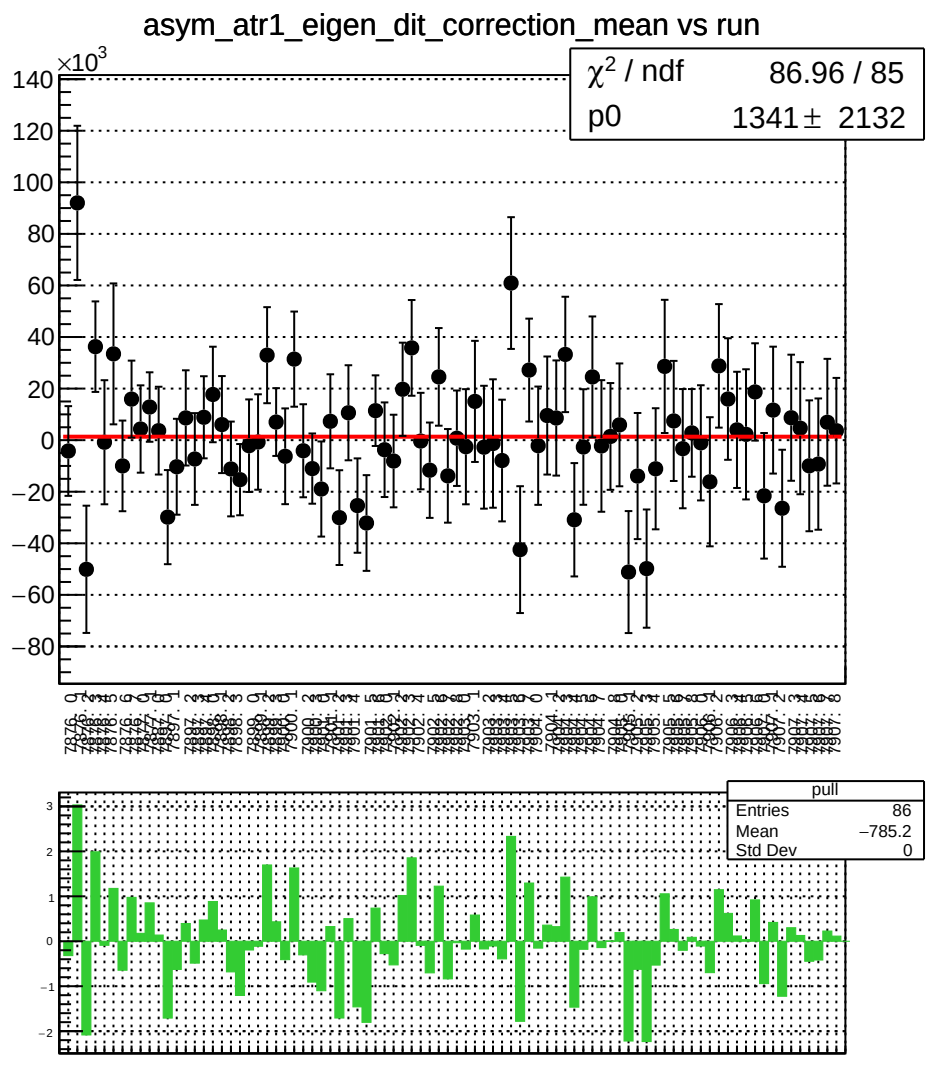

pull1D
Entries 86
Mean 0.002417
Std Dev 1.006

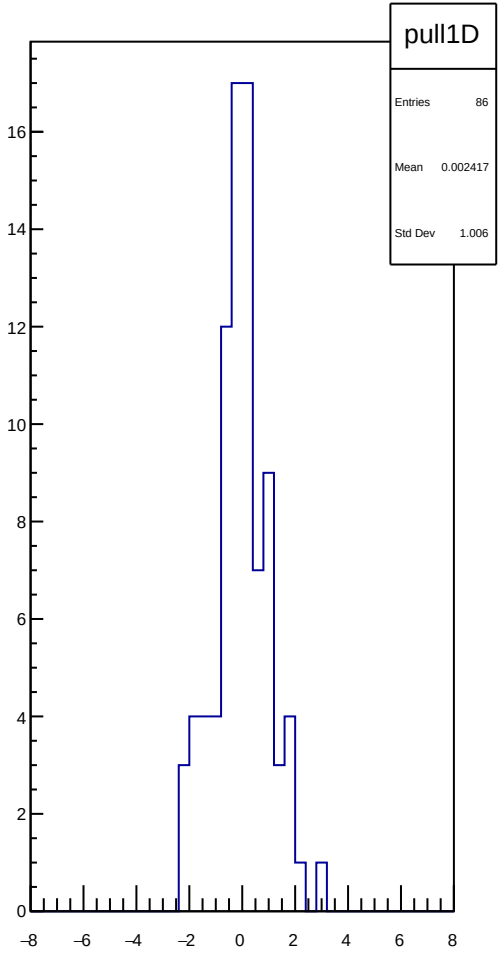

asym_atr1_dit_correction_rms vs run
χ² / ndf 3.341e+04 / 85
p0 1939 ± 1.508
2800
2600
2400
2200
2000
1800
1600

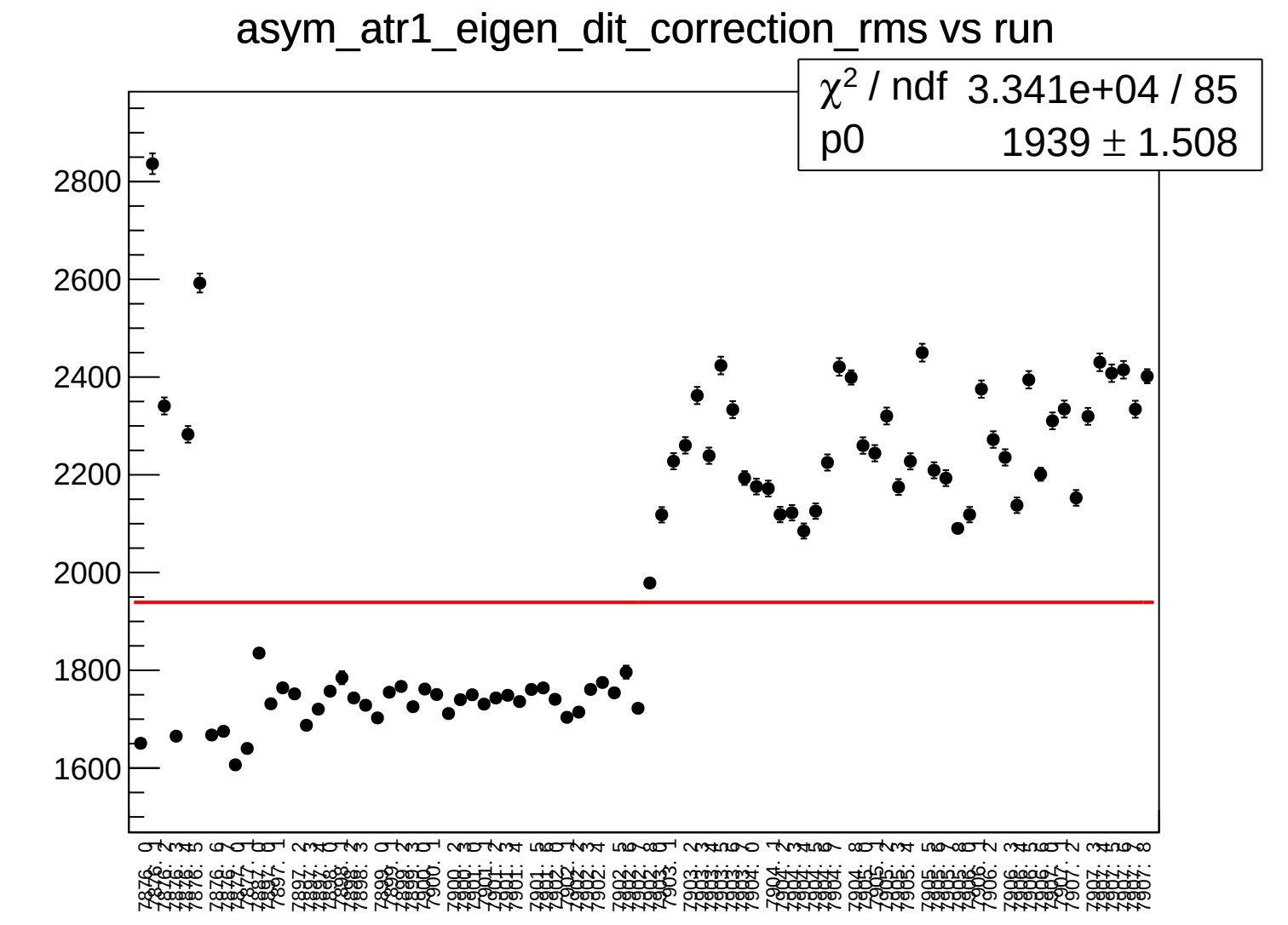

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 96.47 / 85
p0 −502.7 ± 3116
100
50
0
−50
−100
pull
Entries 86
Mean 871.1
Std Dev 0
2
1
0
−1
−2

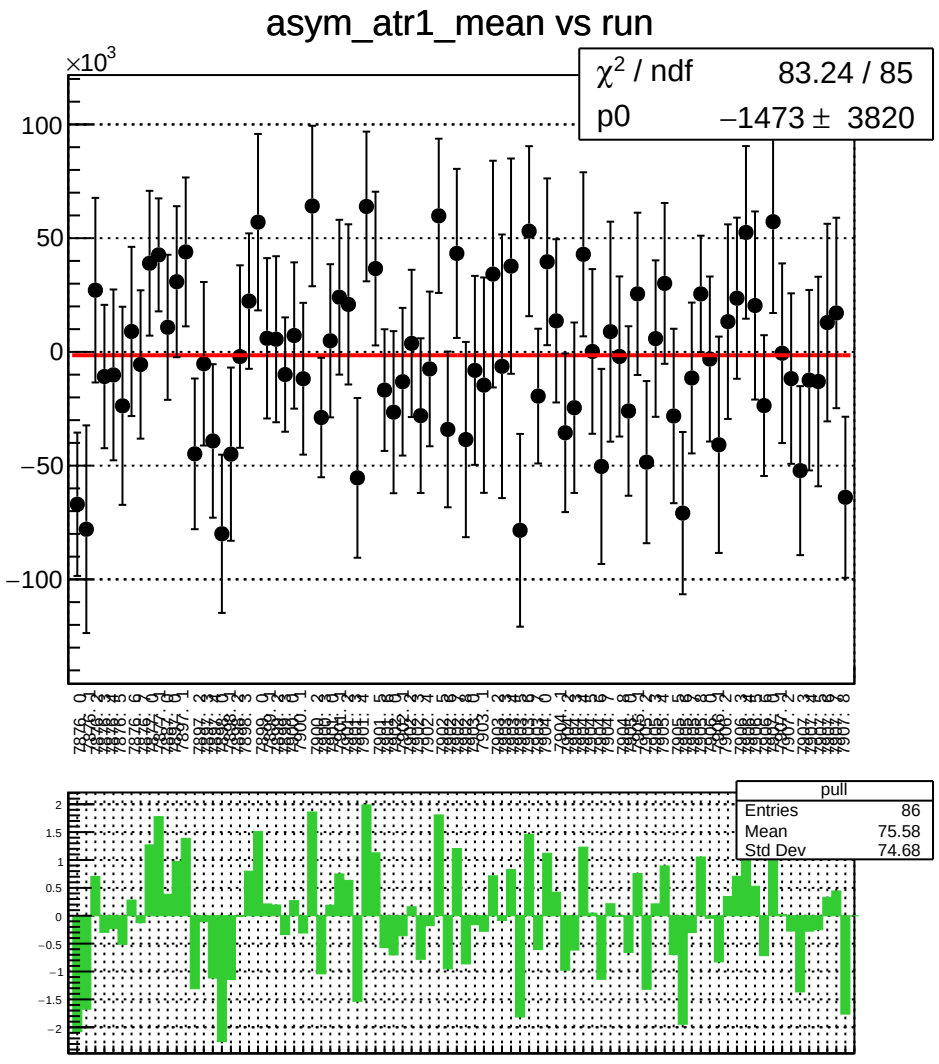

pull1D
Entries 86
Mean −0.002594
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

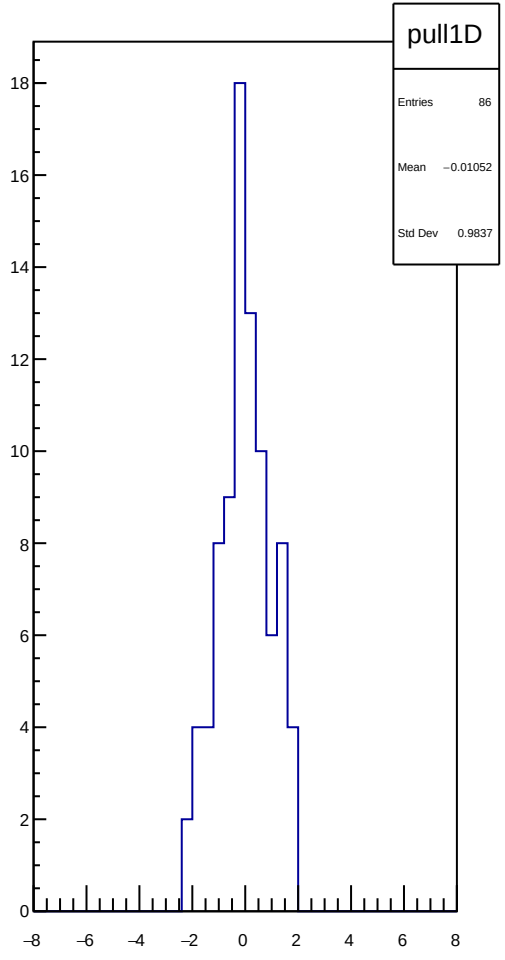

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 3591 / 85
p0 2859 ± 2.203
3800
3600
3400
3200
3000
2800

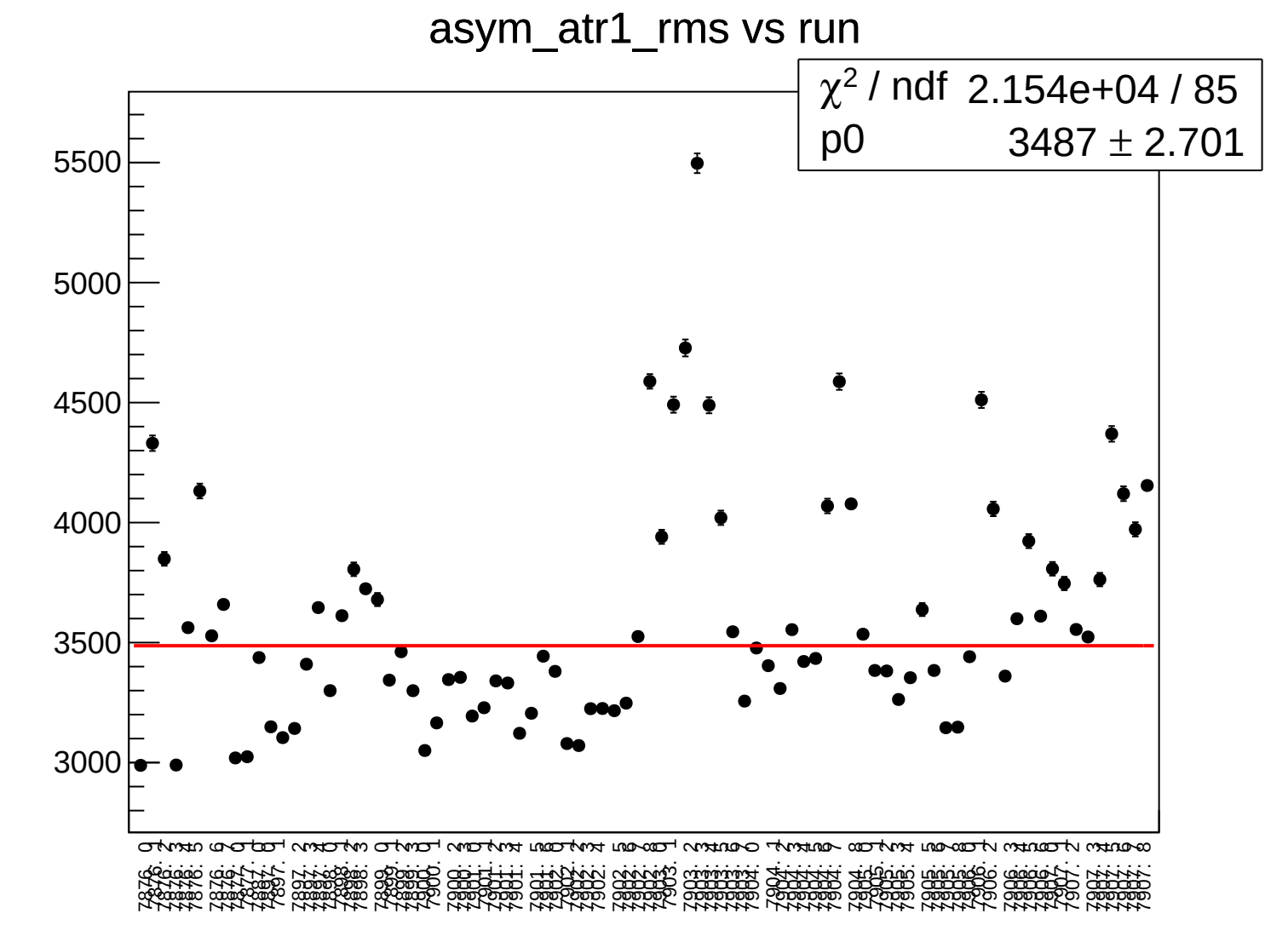

asym_atr1_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.96 / 85
p0 1341 ± 2132
pull
Entries 86
Mean −785.2
Std Dev 0

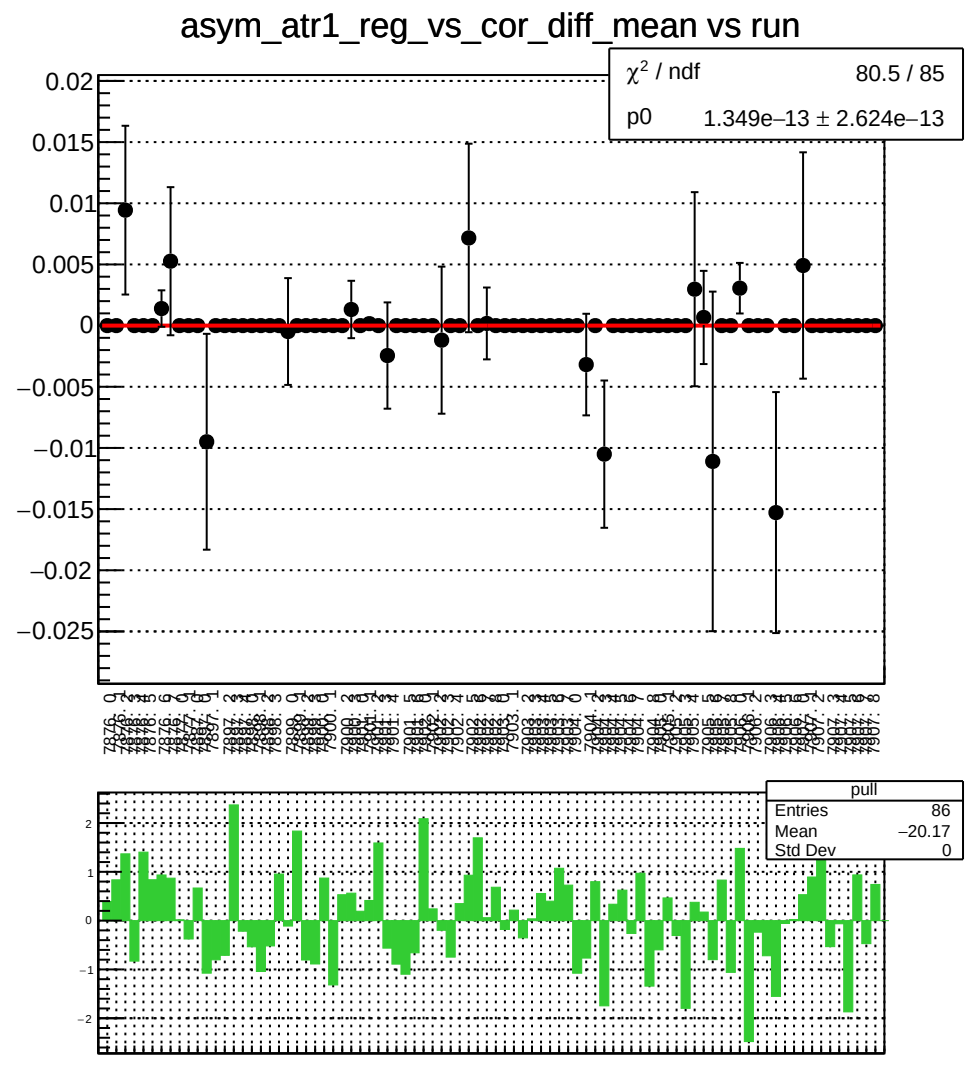

pull1D
Entries 86
Mean 0.002417
Std Dev 1.006

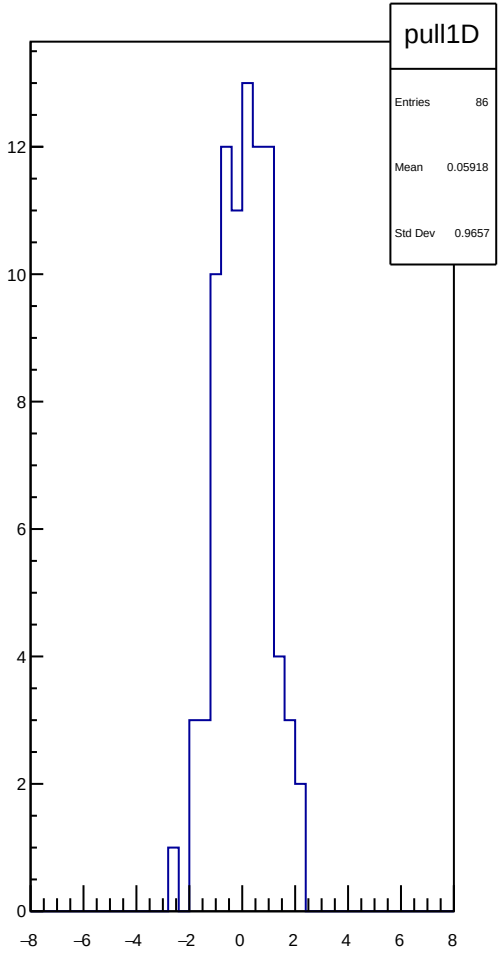

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 3.341e+04 / 85
p0 1939 ± 1.508
2800
2600
2400
2200
2000
1800
1600

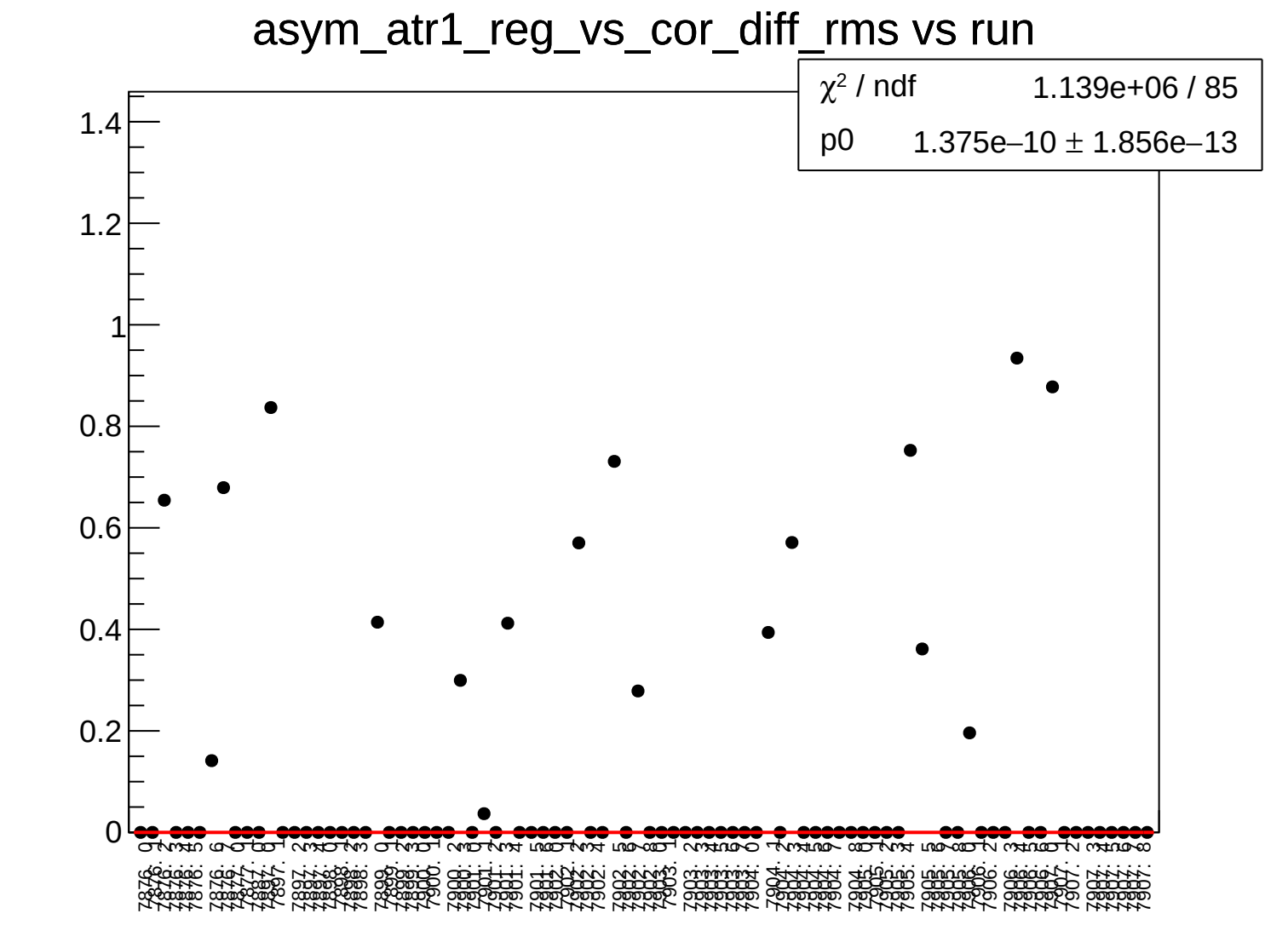

asym_atr1_mean vs run
χ^2 / ndf 83.24 / 85
p0 −1473 ± 3820
×10^3
100
50
0
−50
−100
pull
Entries 86
Mean 75.58
Std Dev 74.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

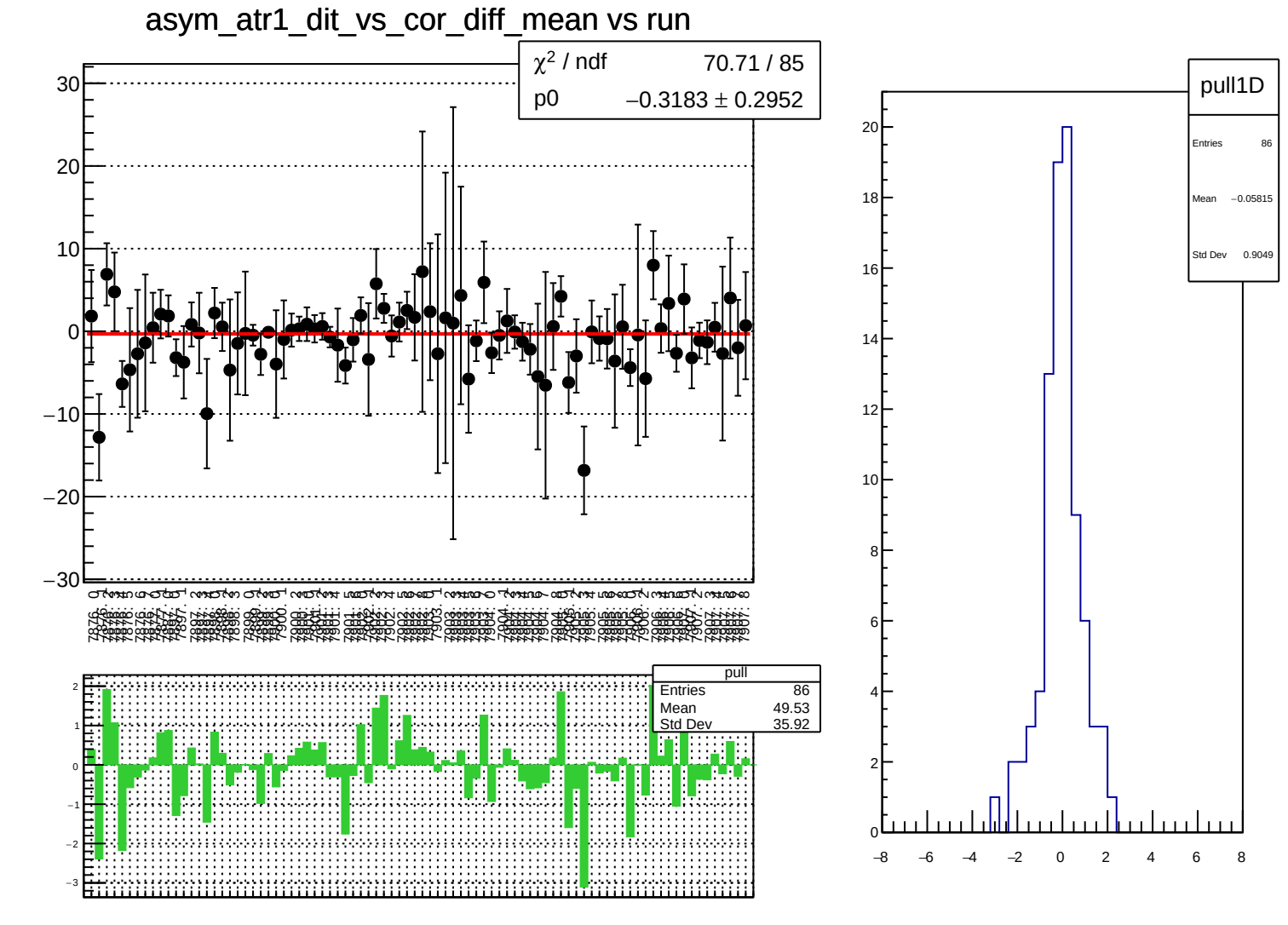

pull1D
Entries 86
Mean −0.01052
Std Dev 0.9837
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

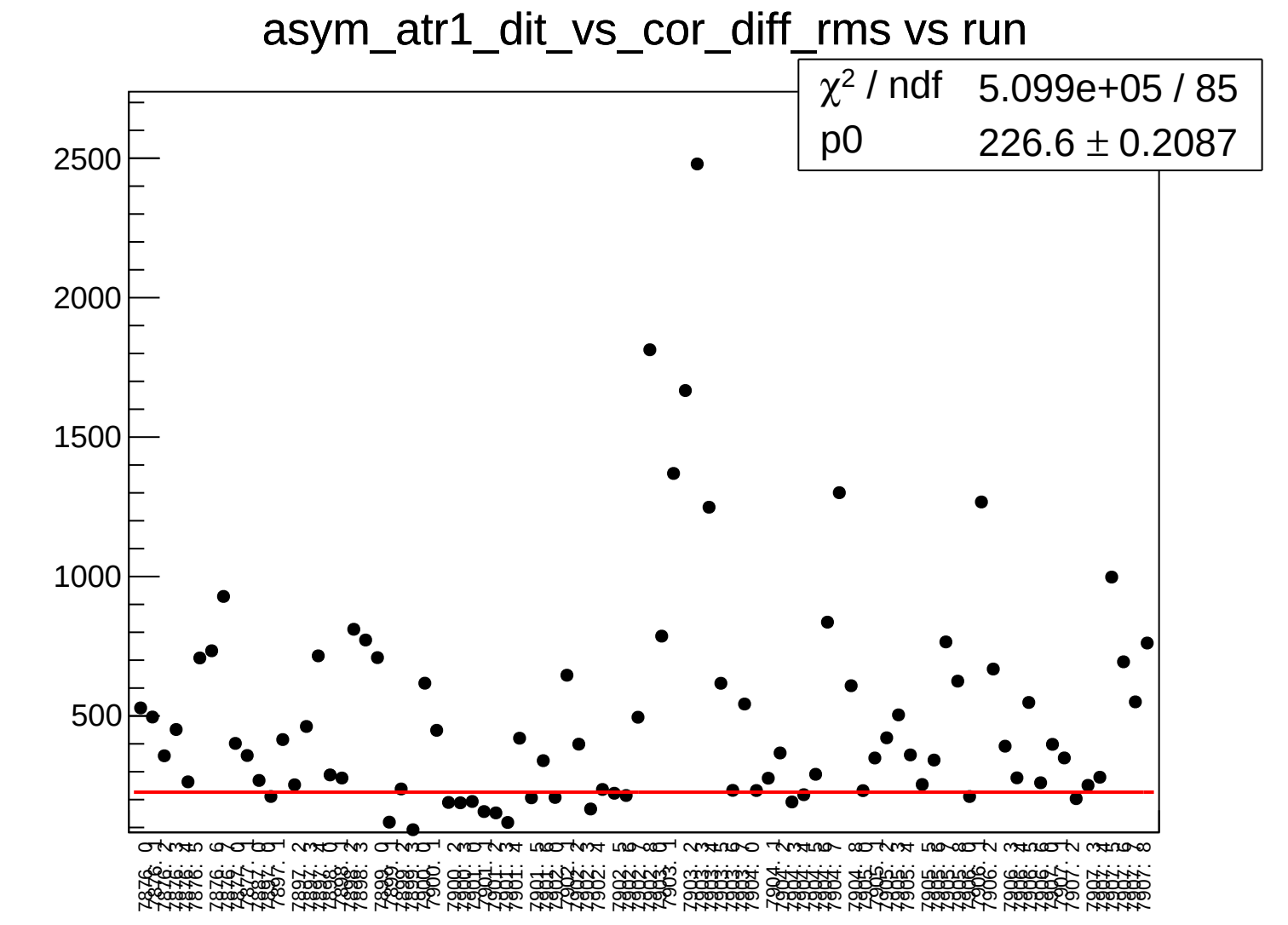

asym_atr1_rms vs run
χ^2 / ndf 2.154e+04 / 85
p0 3487 ± 2.701
5500
5000
4500
4000
3500
3000

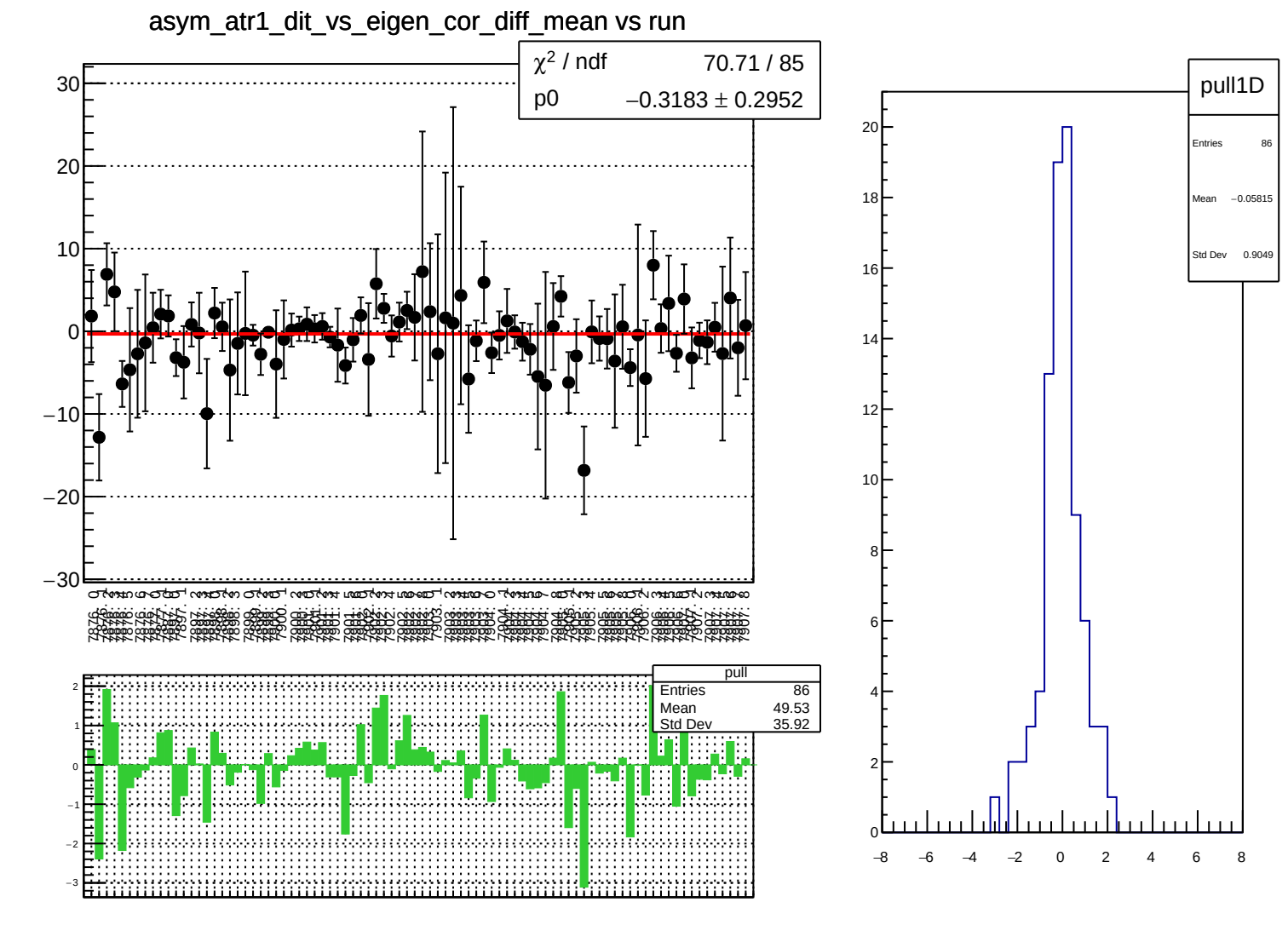

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 80.5 / 85
p0 1.349e−13 ± 2.624e−13
pull
Entries 86
Mean −20.17
Std Dev 0

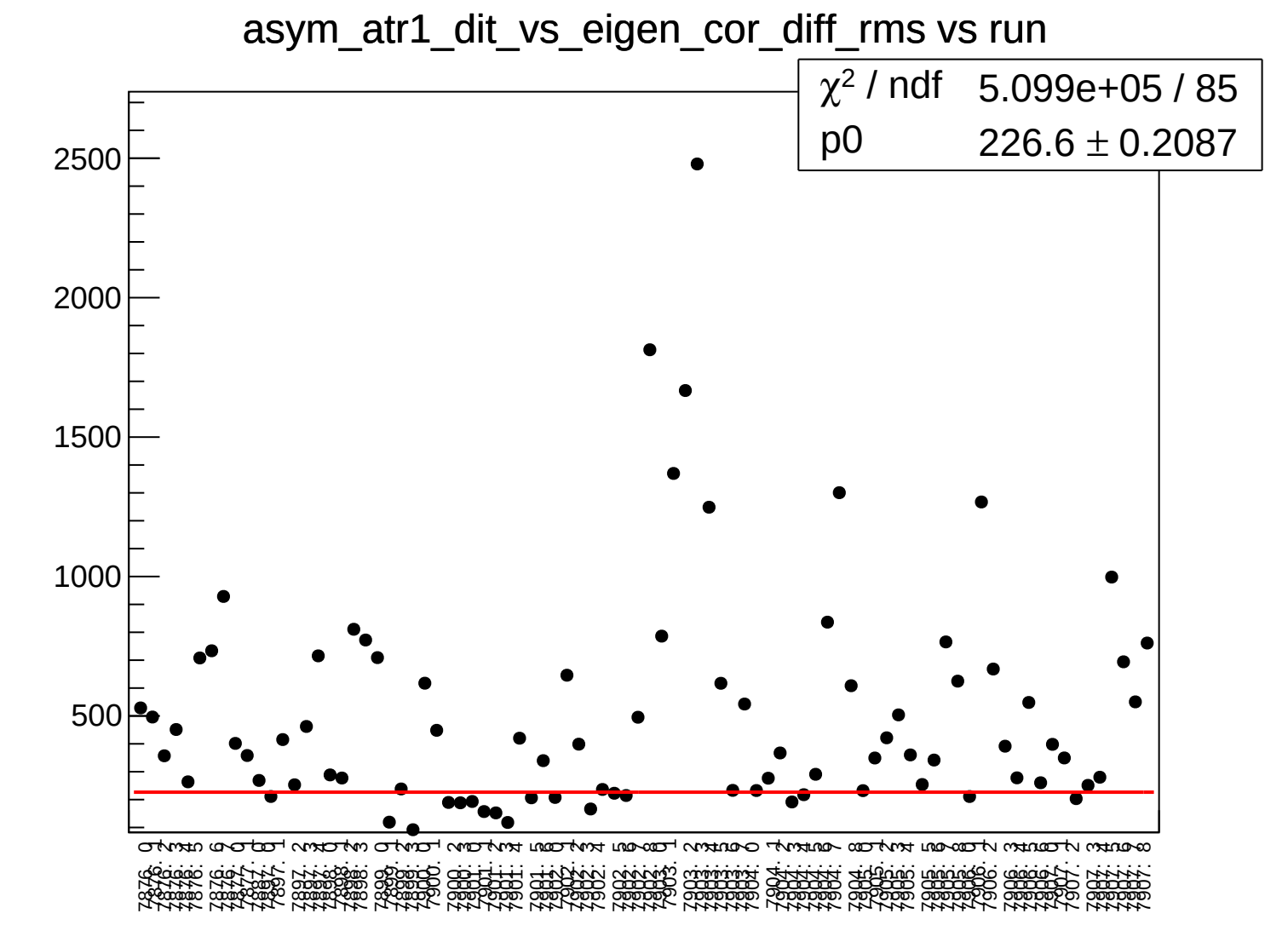

pull1D
Entries 86
Mean 0.05918
Std Dev 0.9657

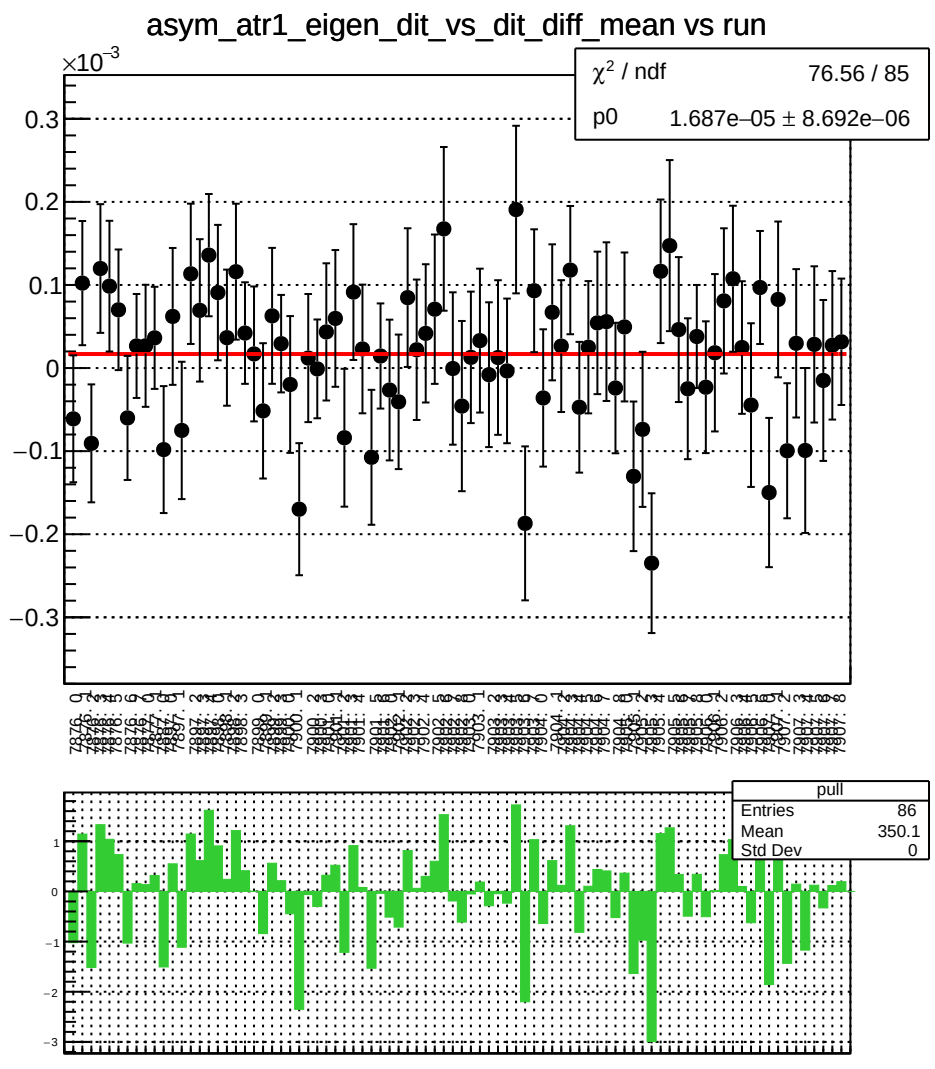

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 85
p0 1.375e−10 ± 1.856e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

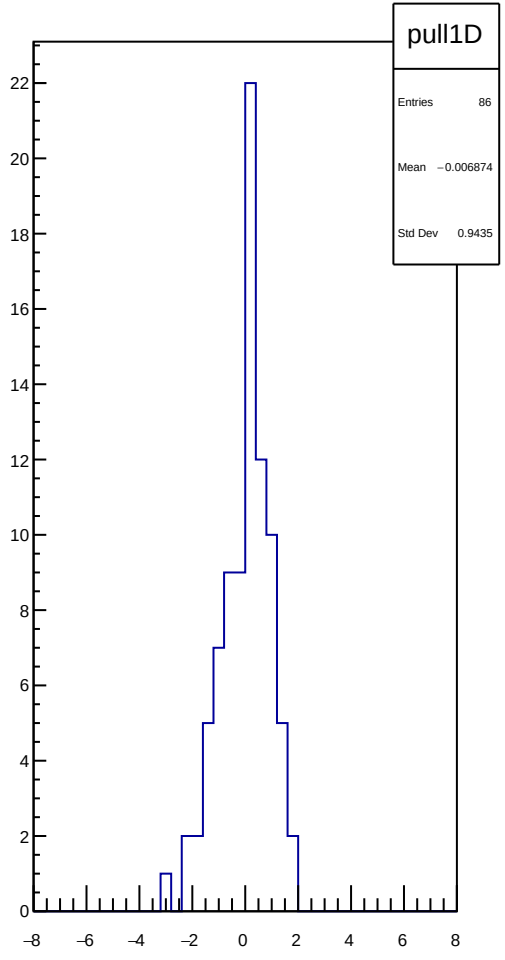

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 70.71 / 85
p0 −0.3183 ± 0.2952
pull
Entries 86
Mean 49.53
Std Dev 35.92
pull1D
Entries 86
Mean −0.05815
Std Dev 0.9049

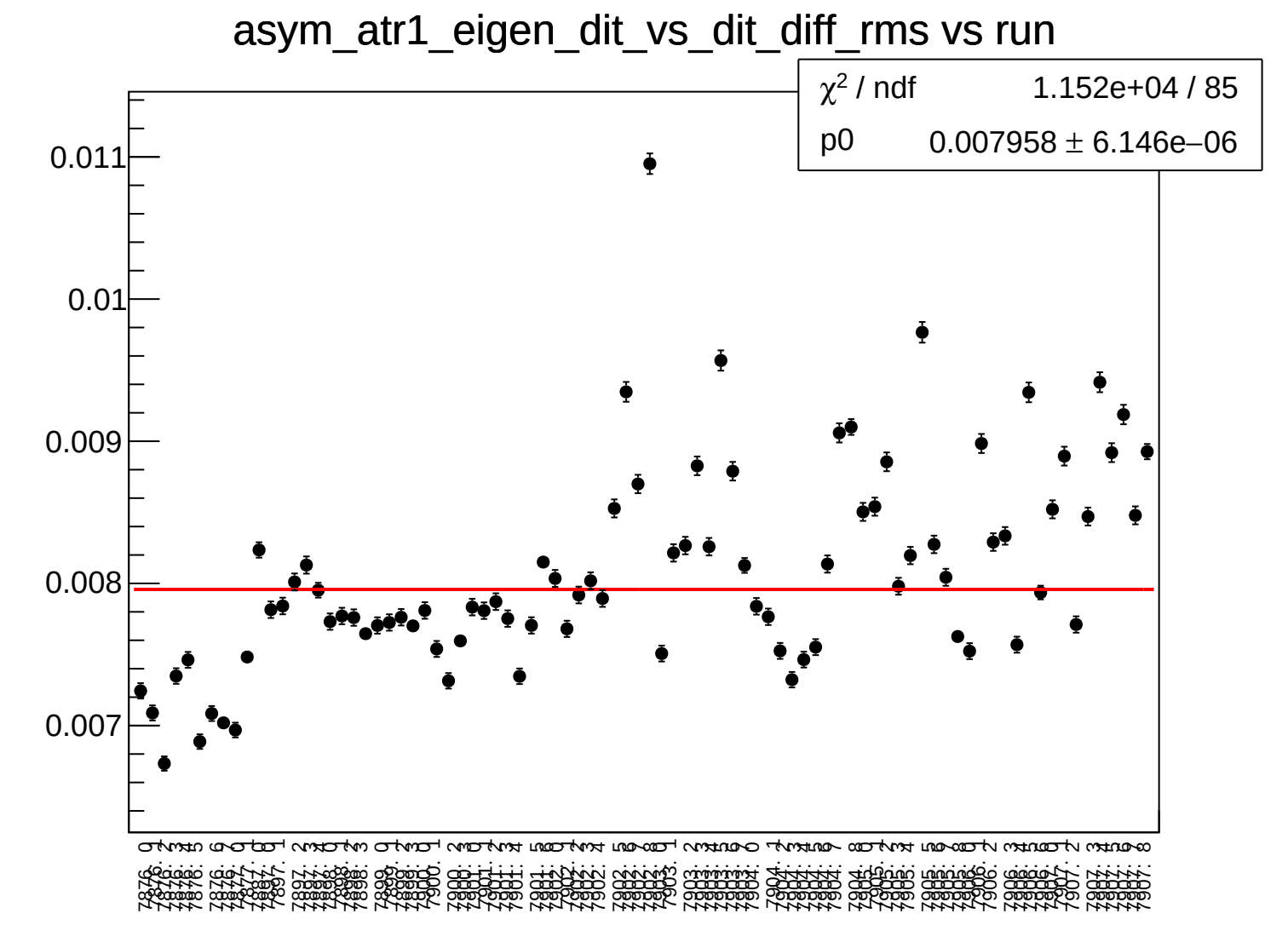

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 5.099e+05 / 85
p0 226.6 ± 0.2087
2500
2000
1500
1000
500

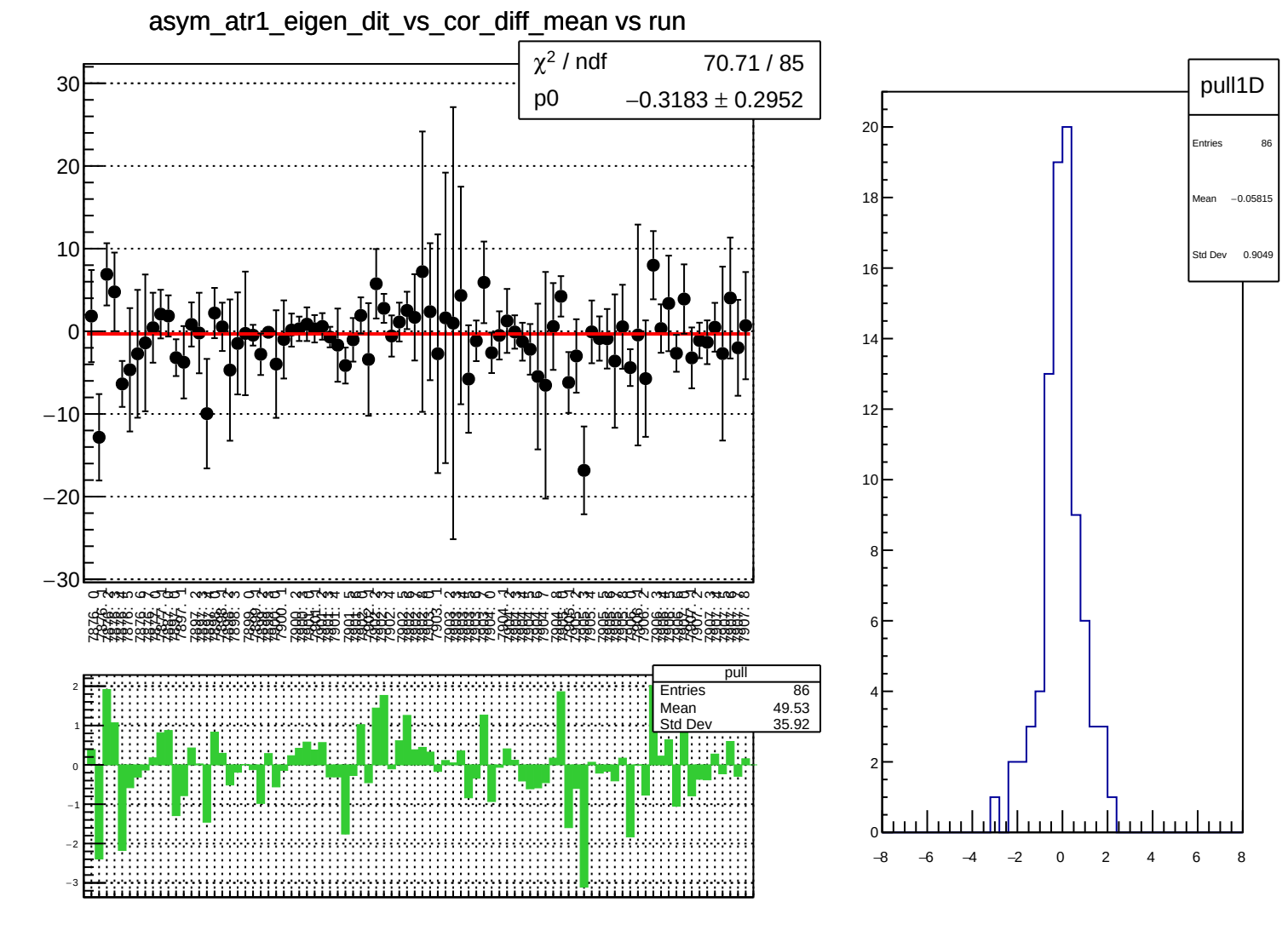

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.71 / 85
p0 −0.3183 ± 0.2952
pull
Entries 86
Mean 49.53
Std Dev 35.92
pull1D
Entries 86
Mean −0.05815
Std Dev 0.9049

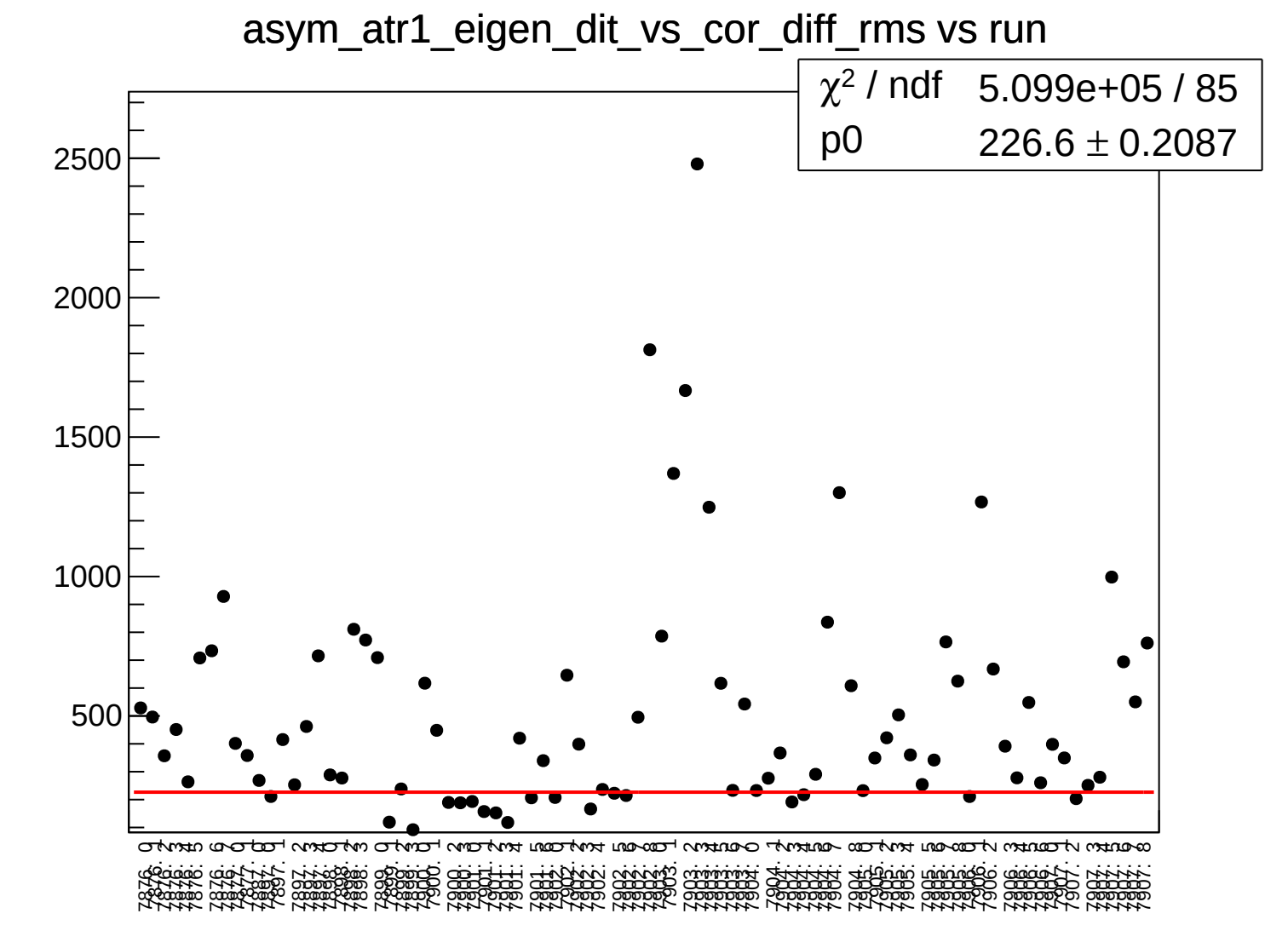

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.099e+05 / 85
p0 226.6 ± 0.2087
2500
2000
1500
1000
500

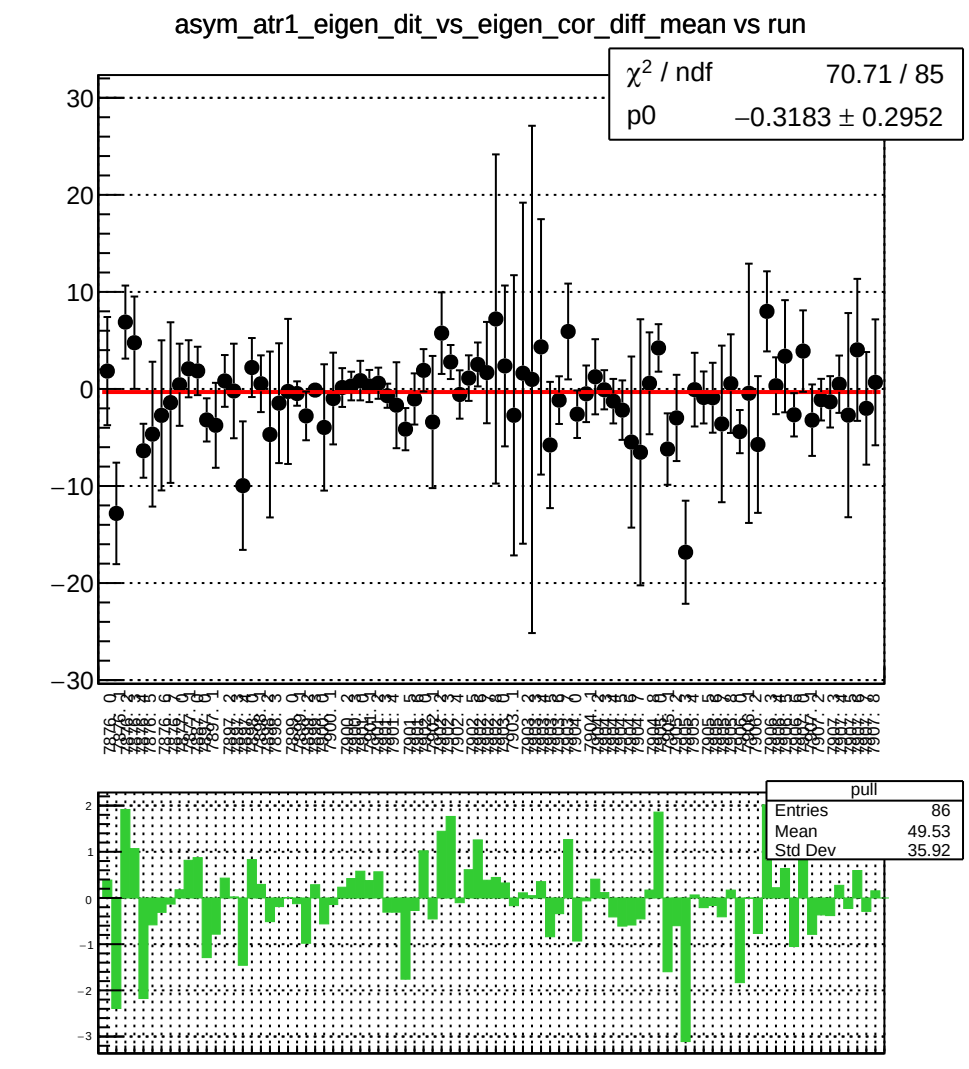

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.56 / 85
p0 1.687e−05 ± 8.692e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 86
Mean 350.1
Std Dev 0

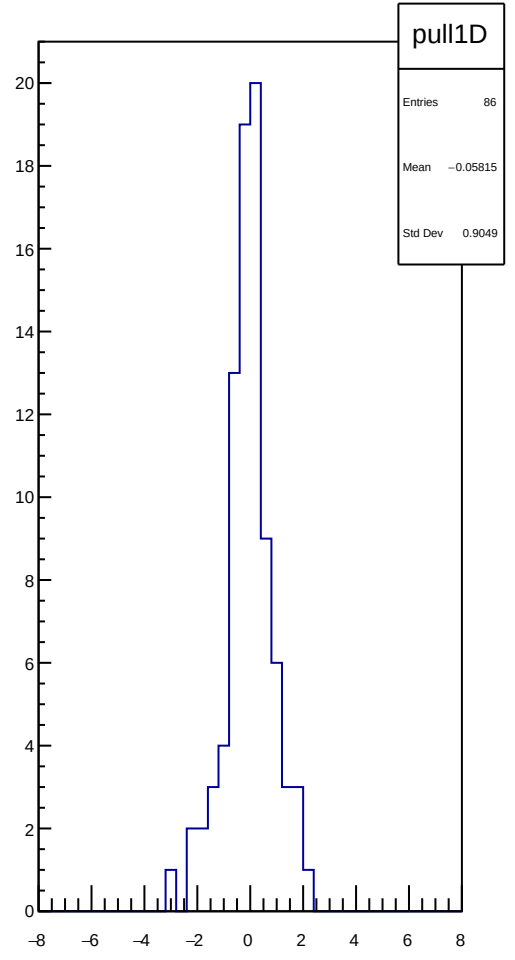

pull1D
Entries 86
Mean −0.006874
Std Dev 0.9435
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

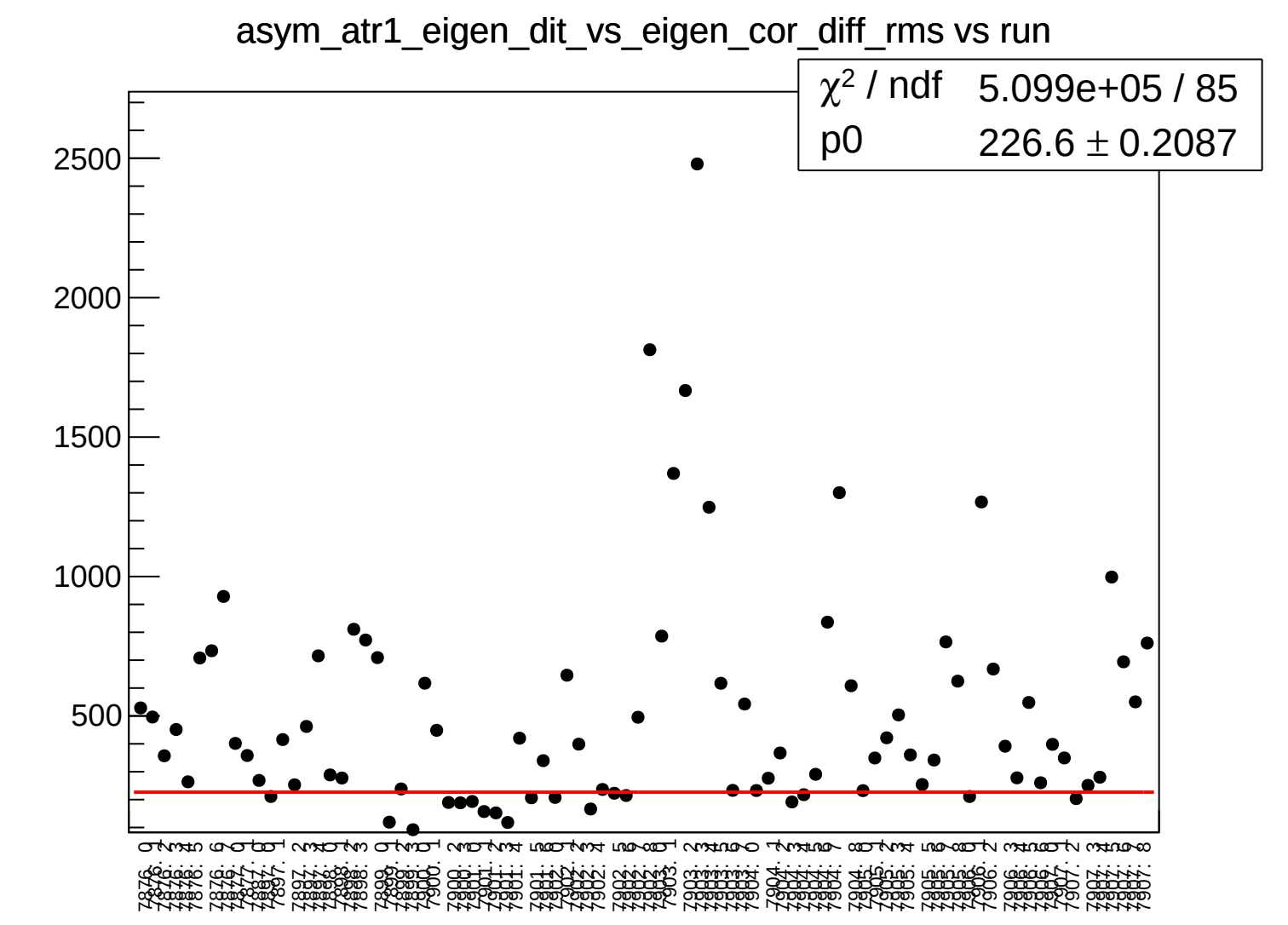

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.152e+04 / 85
p0 0.007958 ± 6.146e−06
0.011
0.01
0.009
0.008
0.007

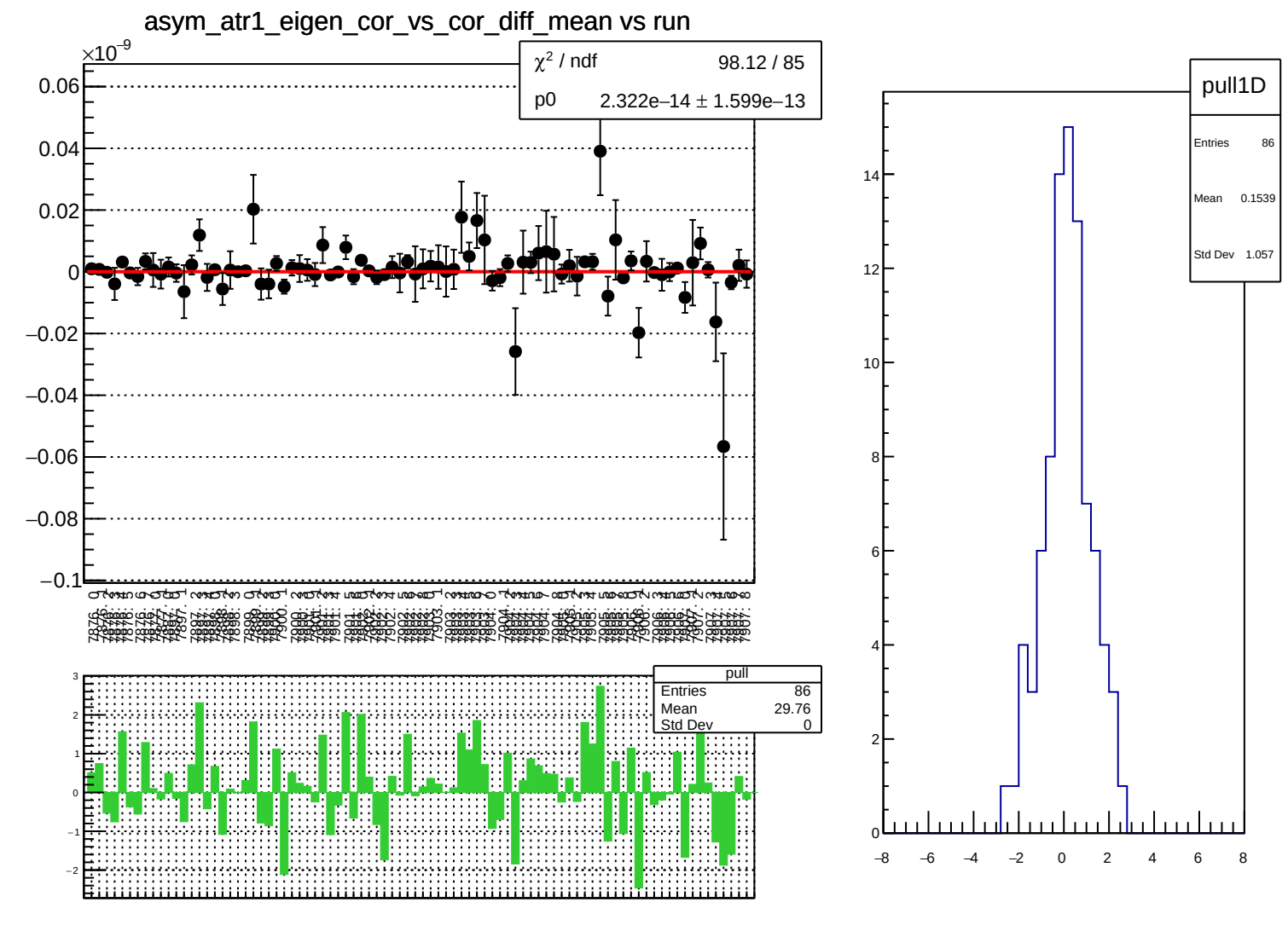

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.71 / 85
p0 −0.3183 ± 0.2952
pull
Entries 86
Mean 49.53
Std Dev 35.92
pull1D
Entries 86
Mean −0.05815
Std Dev 0.9049

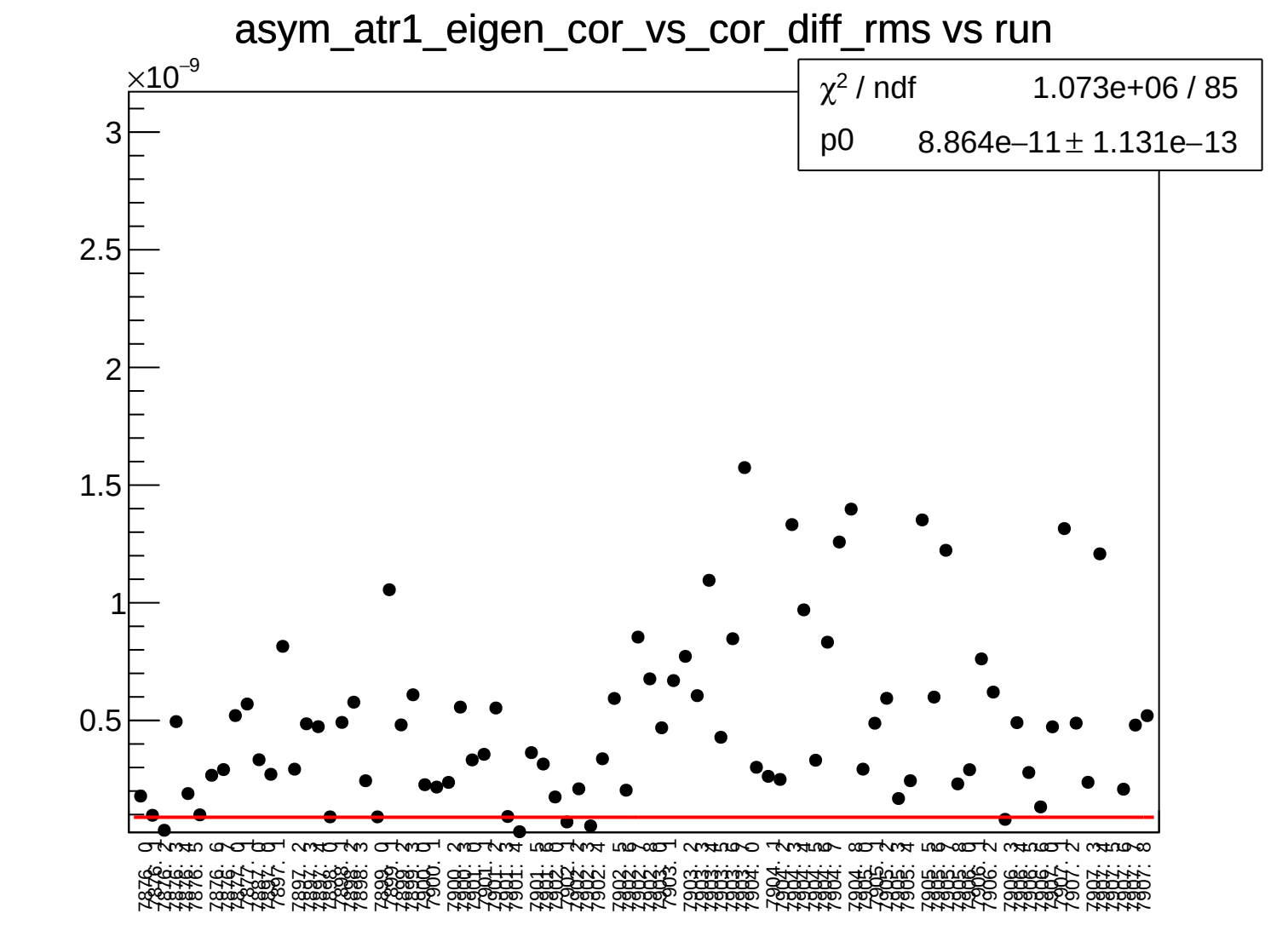

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.099e+05 / 85
p0 226.6 ± 0.2087
2500
2000
1500
1000
500

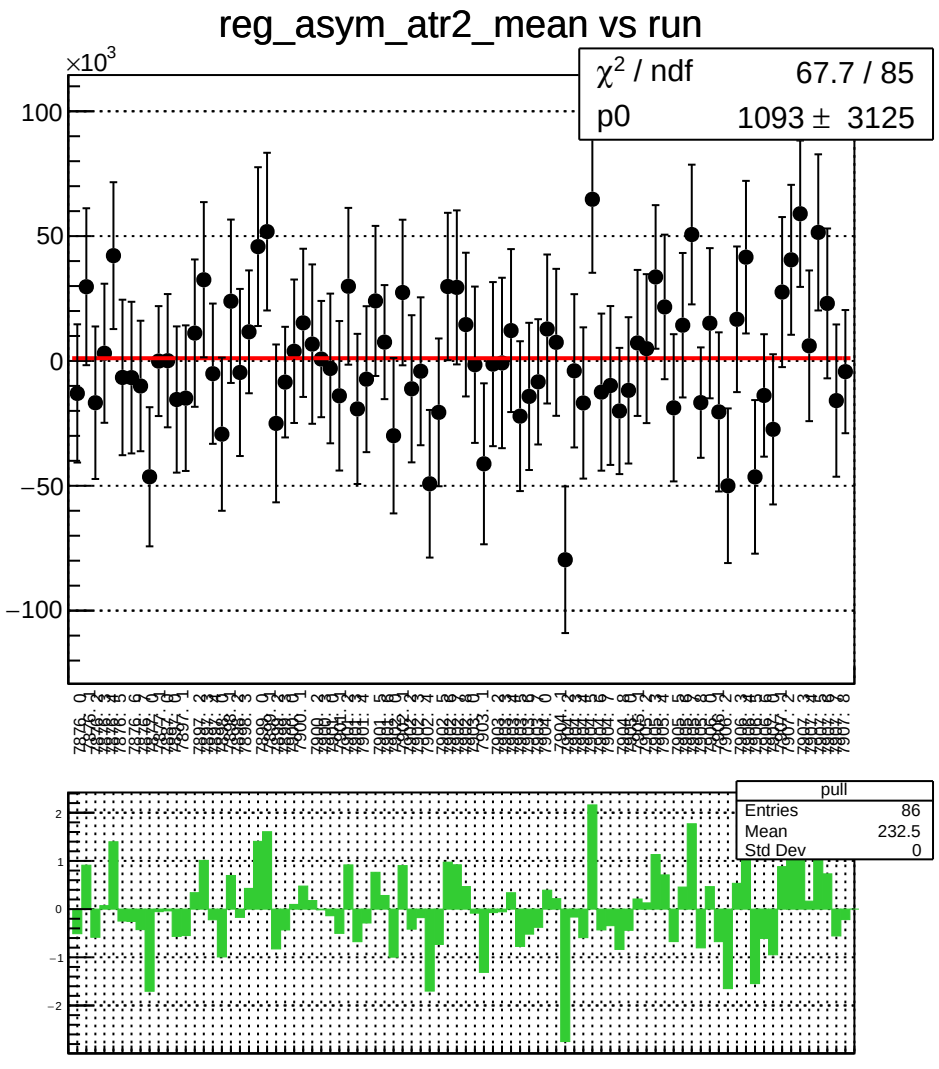

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.71 / 85
p0 −0.3183 ± 0.2952
pull
Entries 86
Mean 49.53
Std Dev 35.92

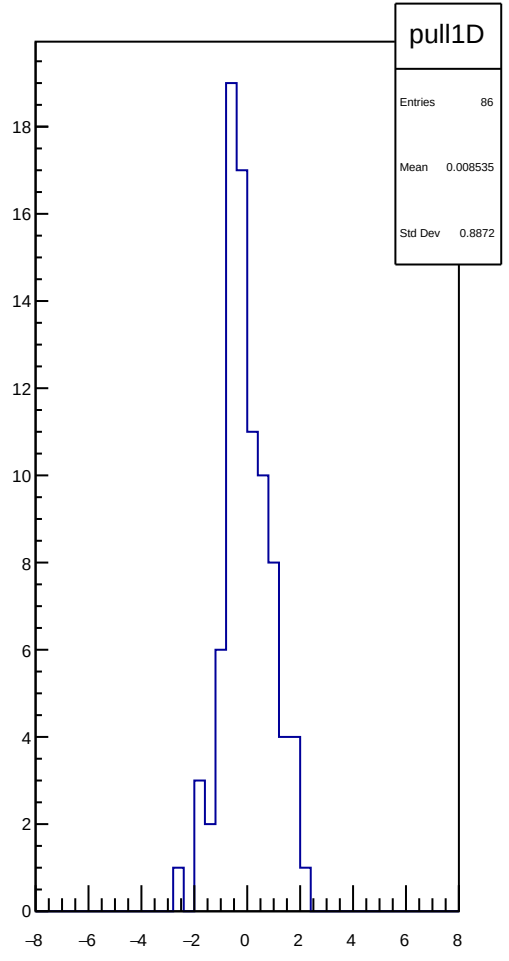

pull1D
Entries 86
Mean −0.05815
Std Dev 0.9049

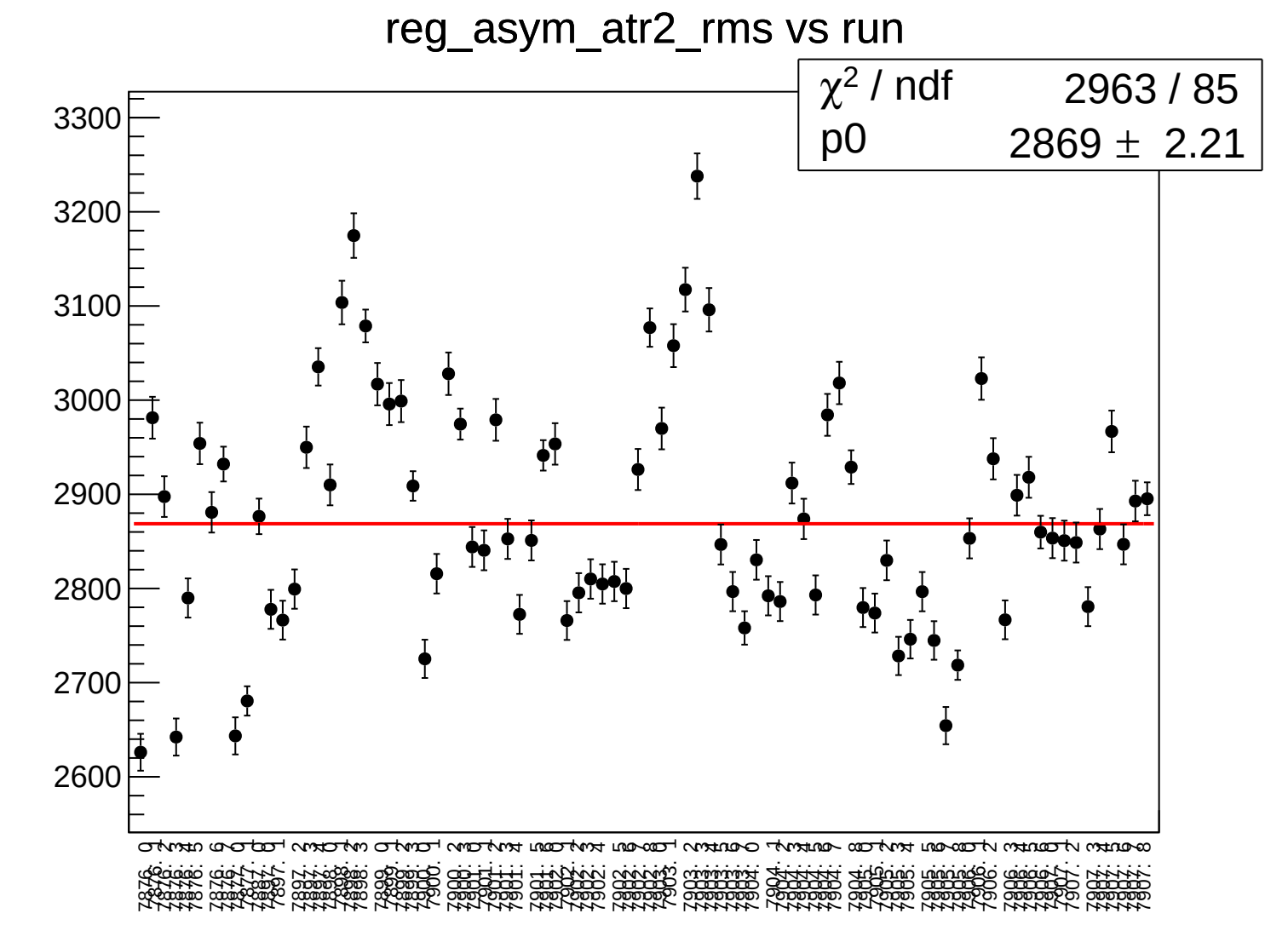

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.099e+05 / 85
p0 226.6 ± 0.2087
2500
2000
1500
1000
500

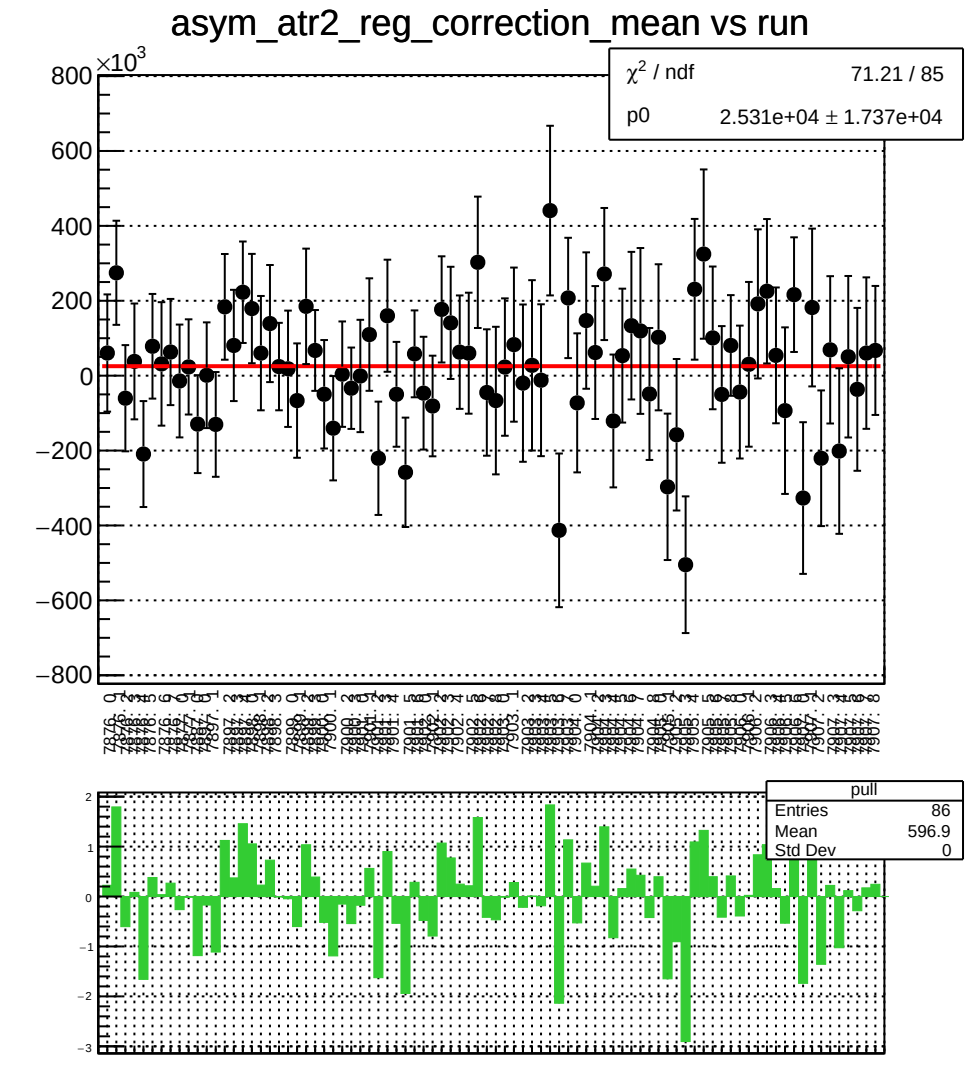

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 98.12 / 85
p0 2.322e−14 ± 1.599e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 86
Mean 29.76
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.1539
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

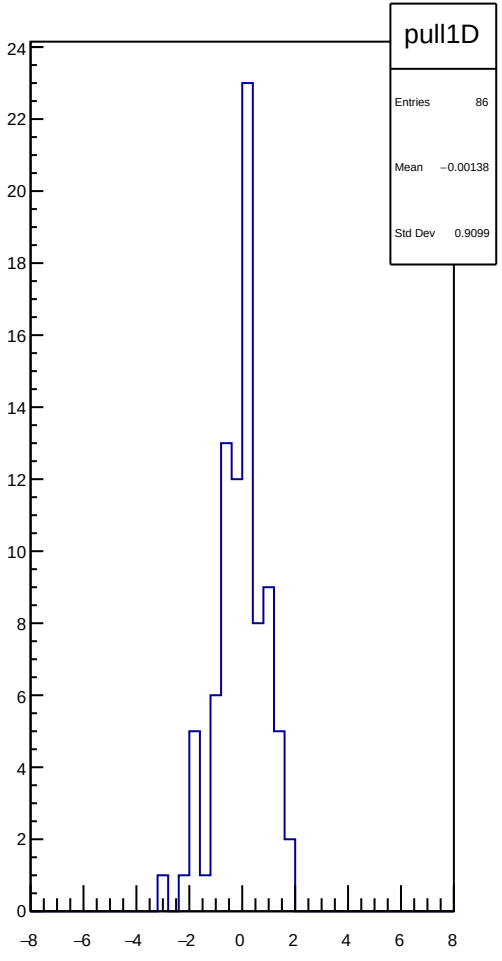

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.073e+06 / 85
p0 8.864e−11 ± 1.131e−13
3
2.5
2
1.5
1
0.5

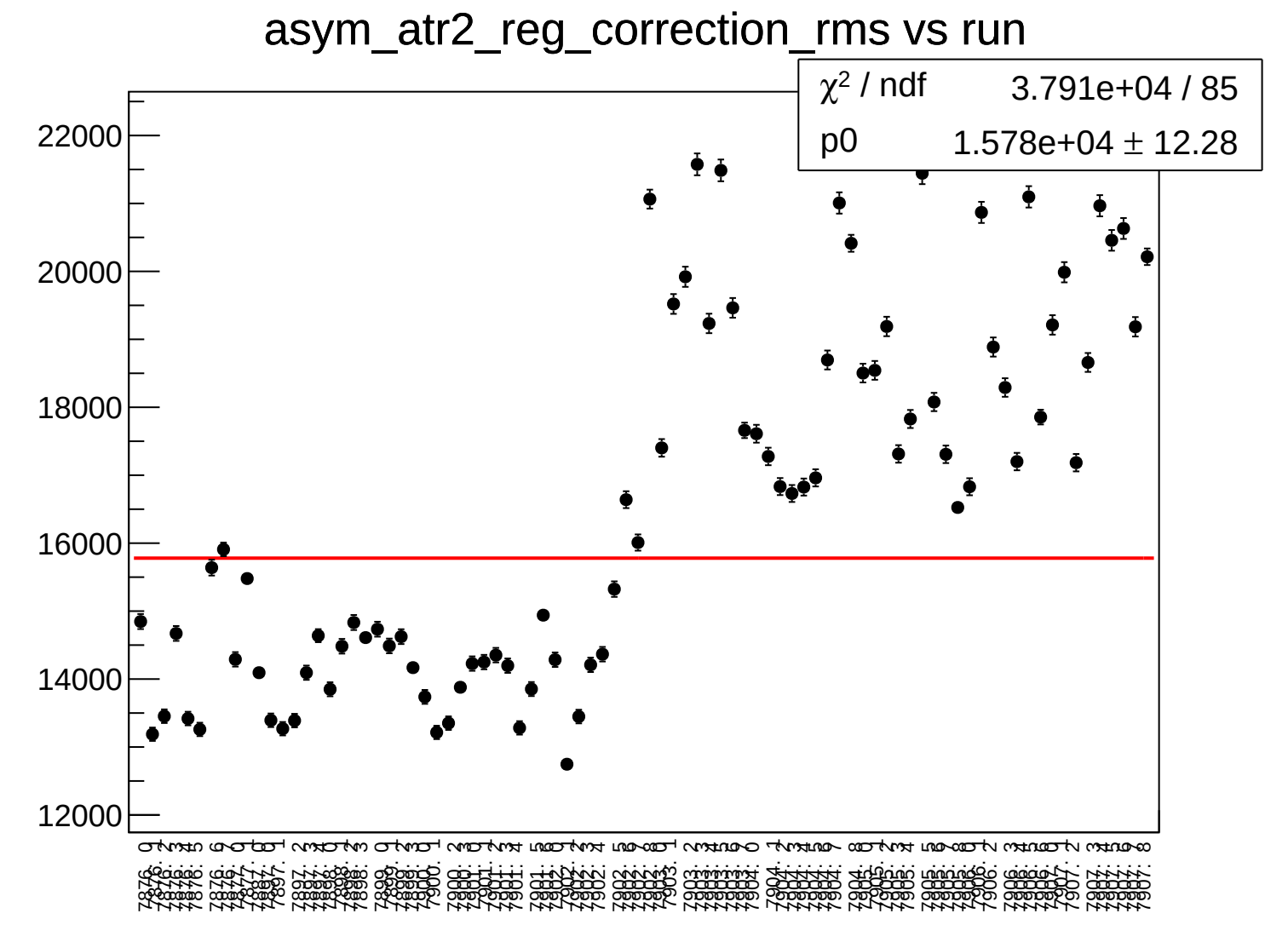

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 67.7 / 85
p0 1093 ± 3125
100
50
0
−50
−100
pull
Entries 86
Mean 232.5
Std Dev 0
2
1
0
−1
−2

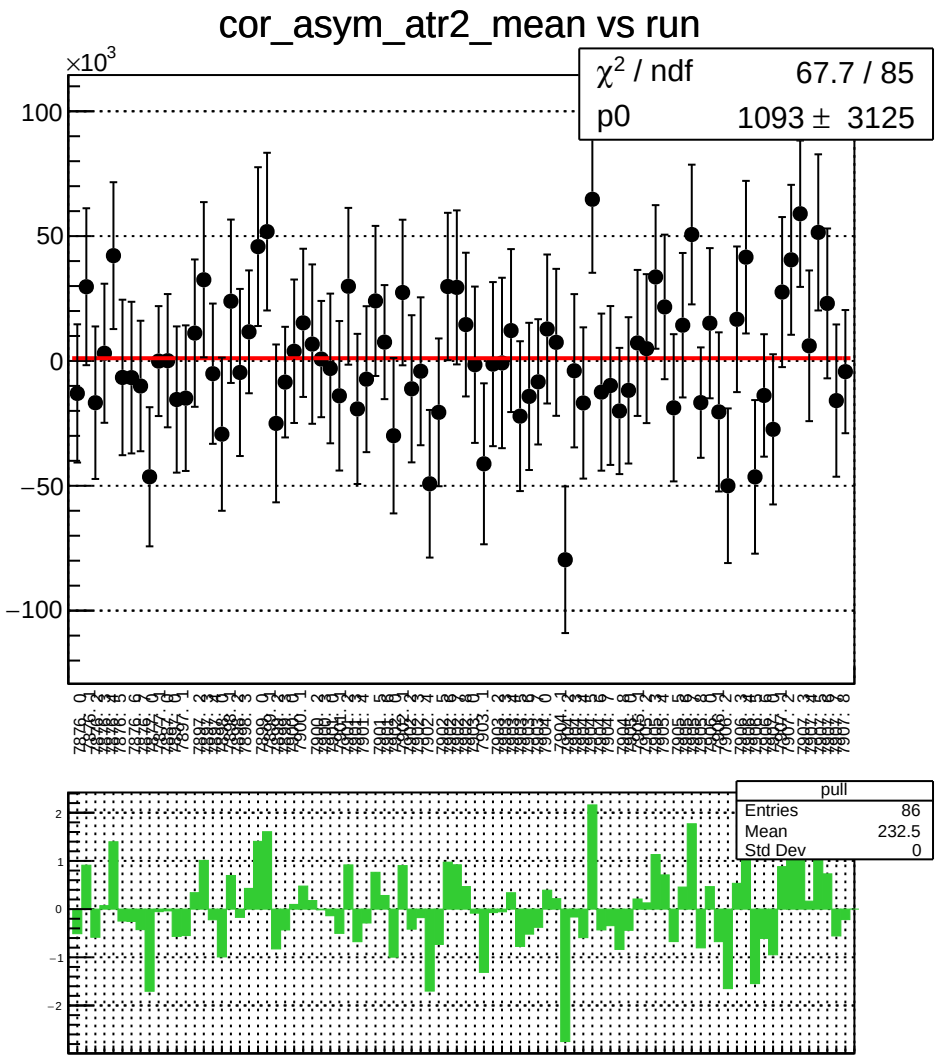

pull1D
Entries 86
Mean 0.008535
Std Dev 0.8872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

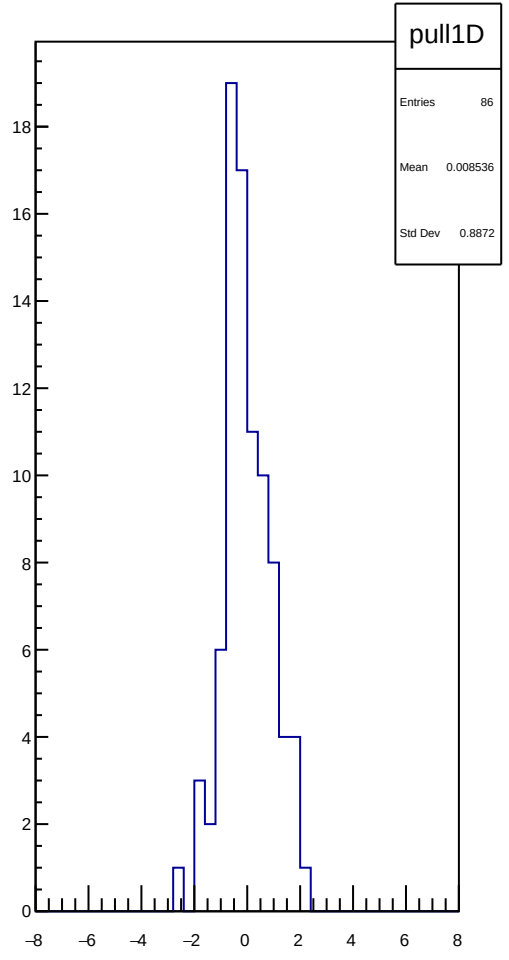

reg_asym_atr2_rms vs run
χ^2 / ndf 2963 / 85
p0 2869 ± 2.21
3300
3200
3100
3000
2900
2800
2700
2600

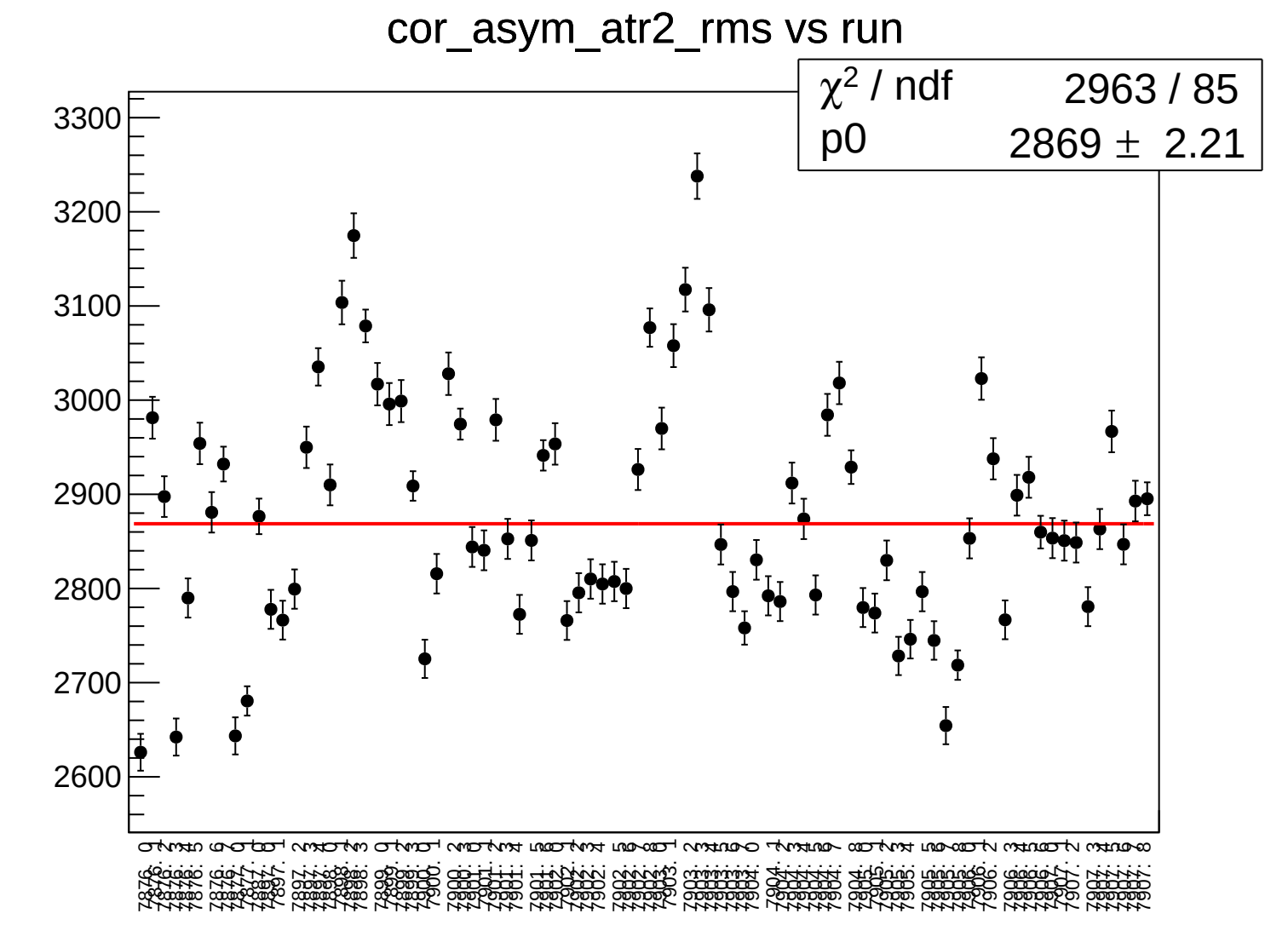

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 71.21 / 85
p0 2.531e+04 ± 1.737e+04
pull
Entries 86
Mean 596.9
Std Dev 0

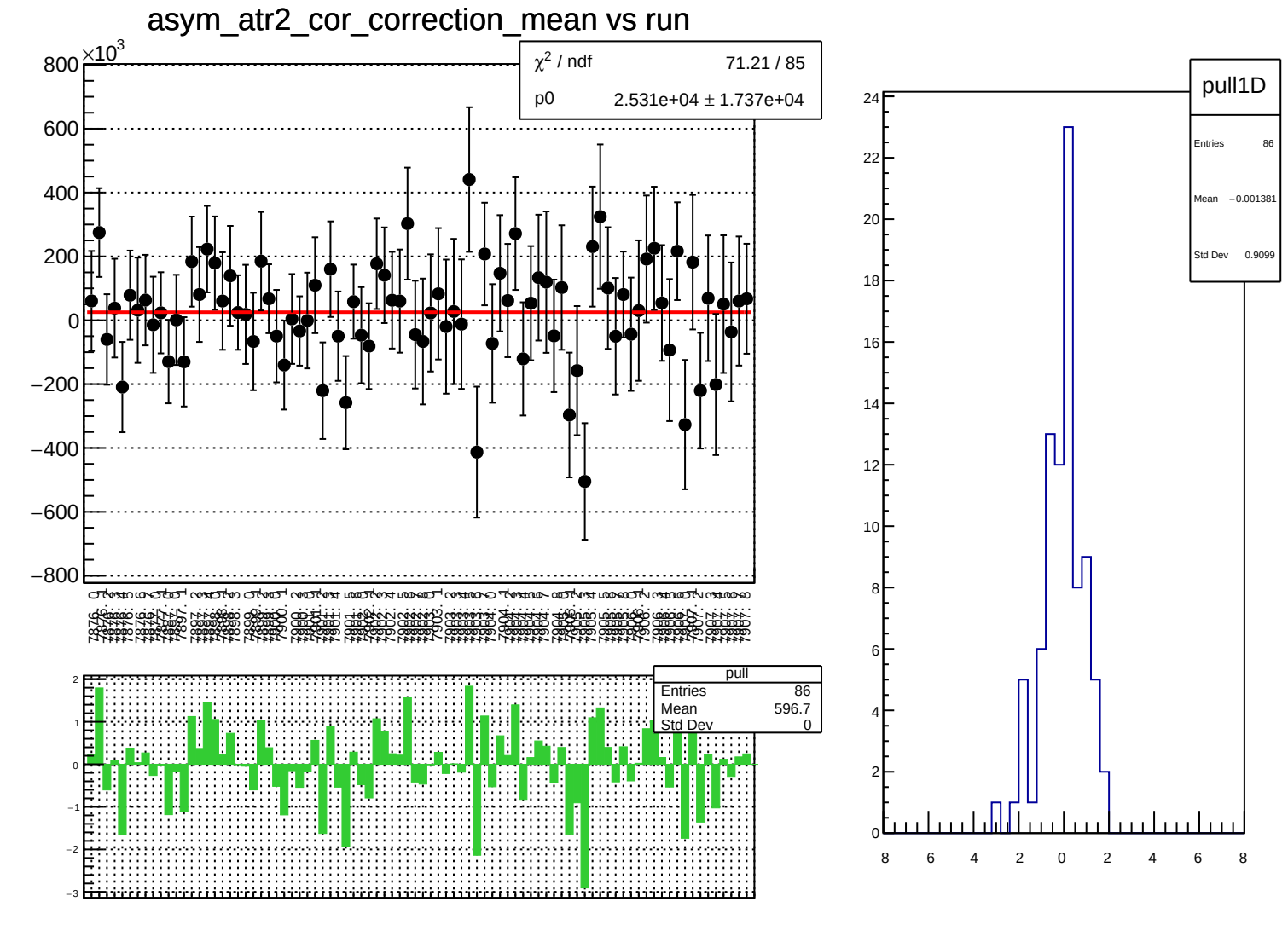

pull1D
Entries 86
Mean −0.00138
Std Dev 0.9099

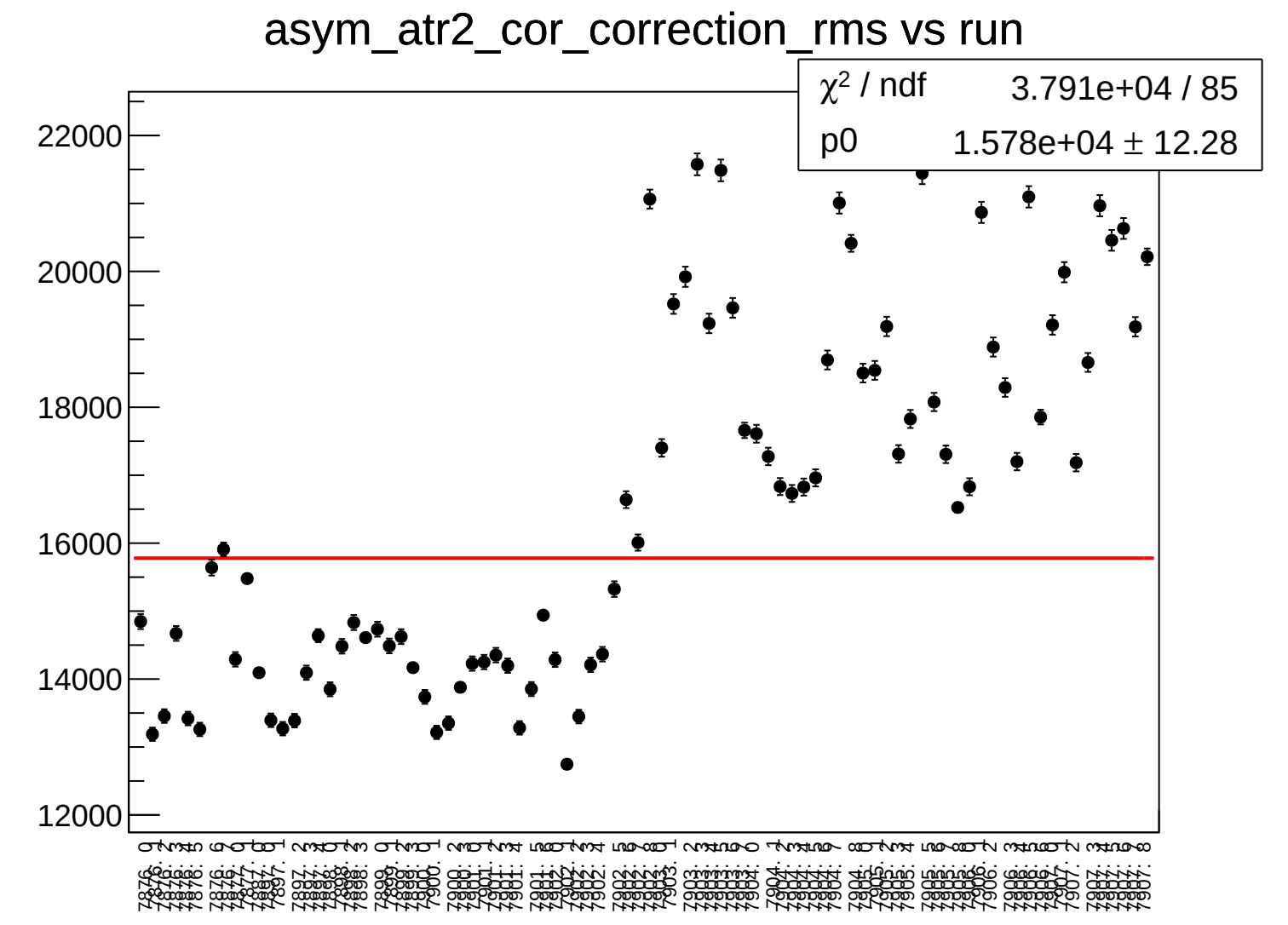

asym_atr2_reg_correction_rms vs run
χ² / ndf 3.791e+04 / 85
p0 1.578e+04 ± 12.28
22000
20000
18000
16000
14000
12000

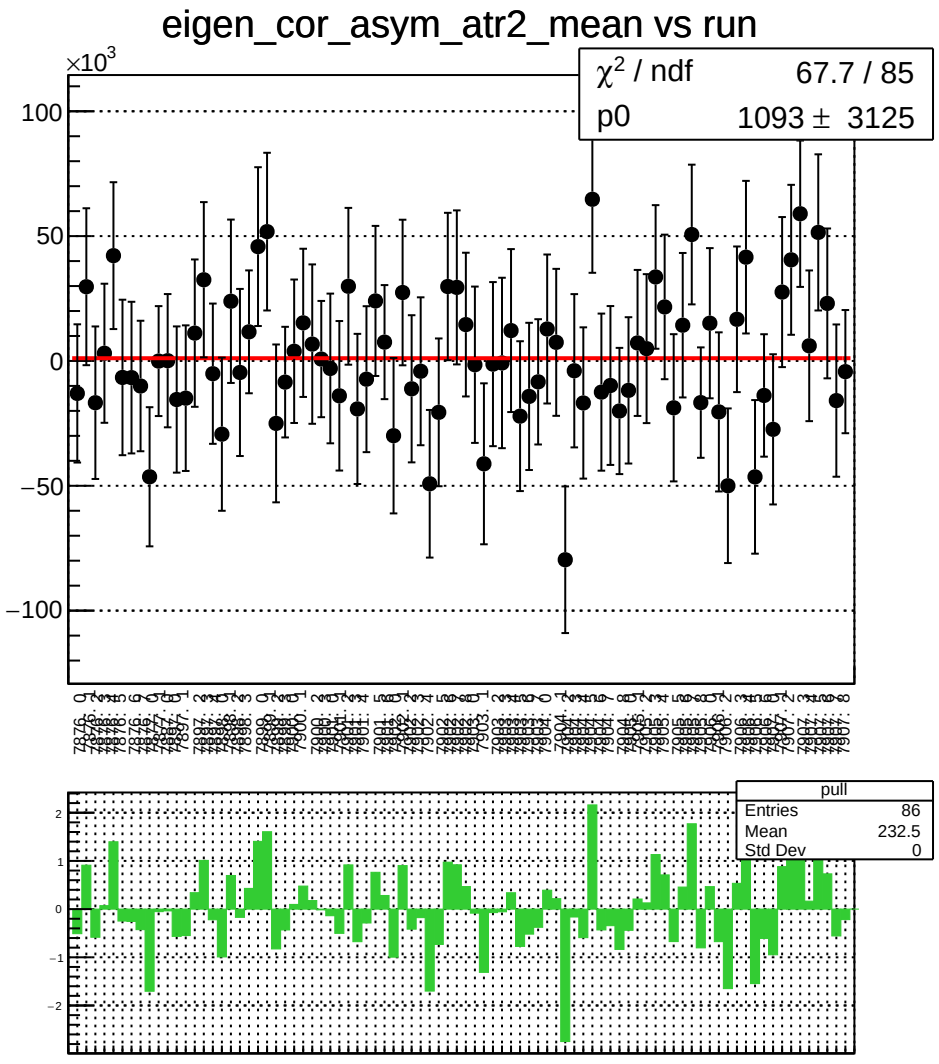

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 67.7 / 85
p0 1093 ± 3125
100
50
0
−50
−100
pull
Entries 86
Mean 232.5
Std Dev 0
2
1
0
−1
−2

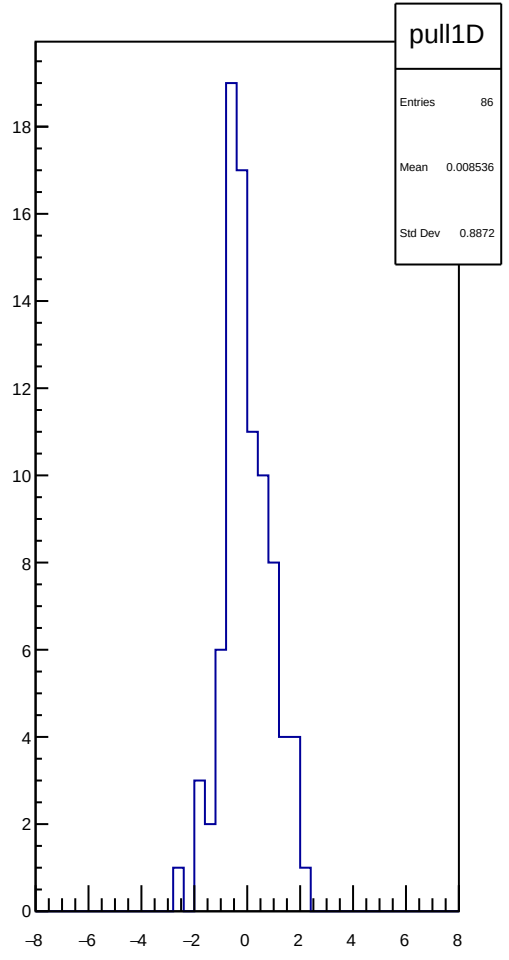

pull1D
Entries 86
Mean 0.008536
Std Dev 0.8872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

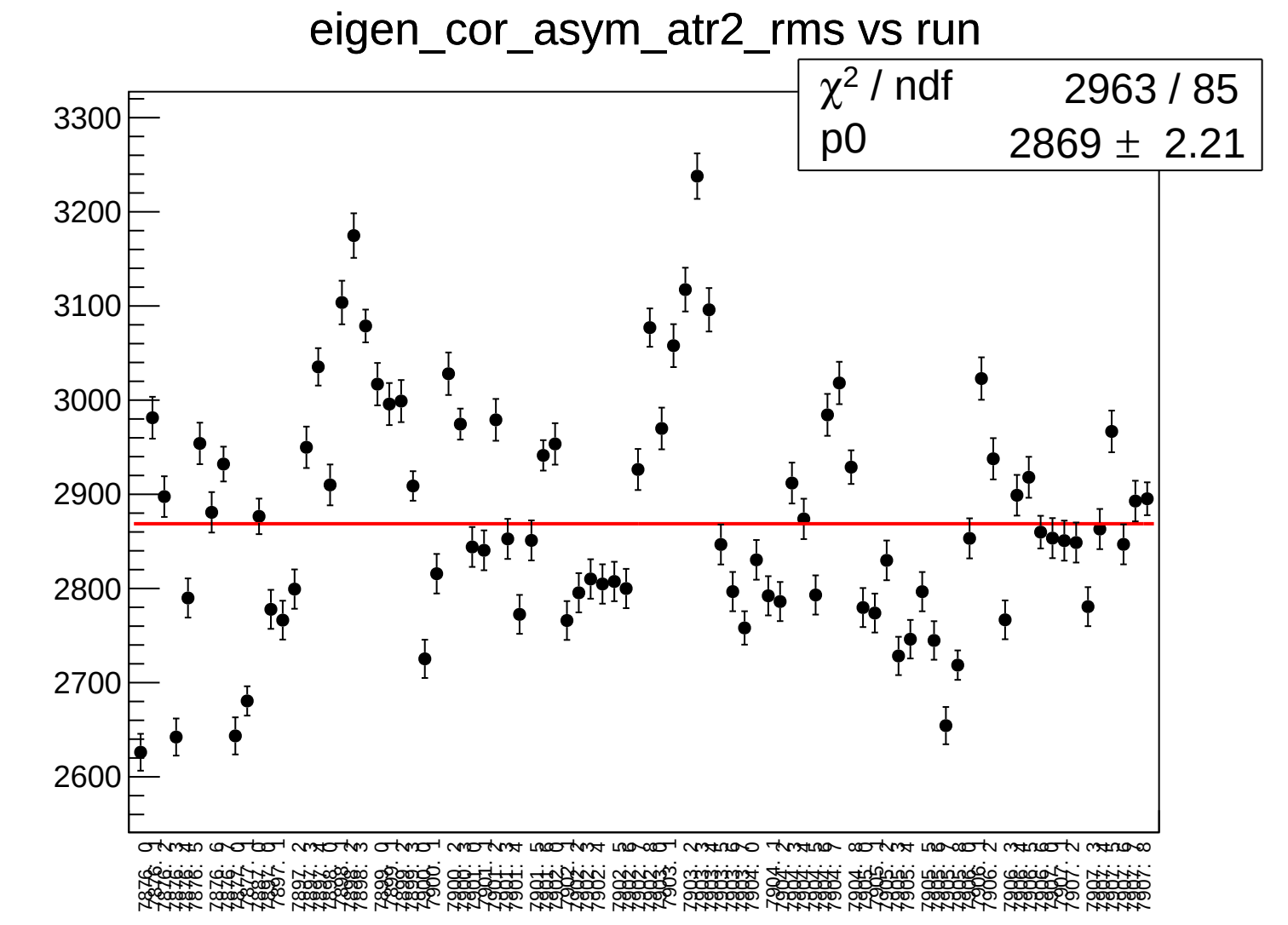

cor_asym_atr2_rms vs run
χ² / ndf 2963 / 85
p0 2869 ± 2.21
3300
3200
3100
3000
2900
2800
2700
2600

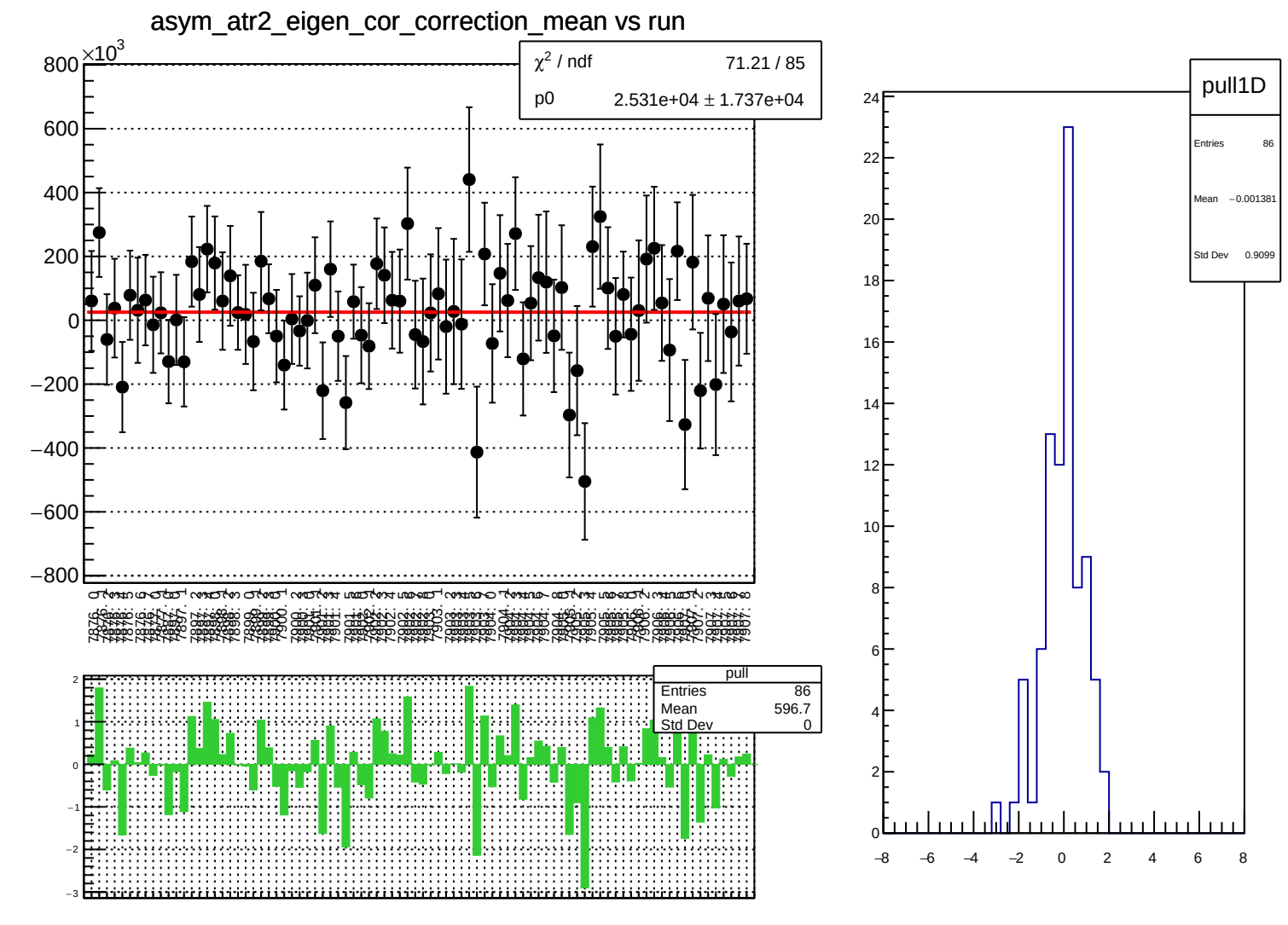

asym_atr2_cor_correction_mean vs run
χ² / ndf 71.21 / 85
p0 2.531e+04 ± 1.737e+04
×10³
pull
Entries 86
Mean 596.7
Std Dev 0
pull1D
Entries 86
Mean −0.001381
Std Dev 0.9099

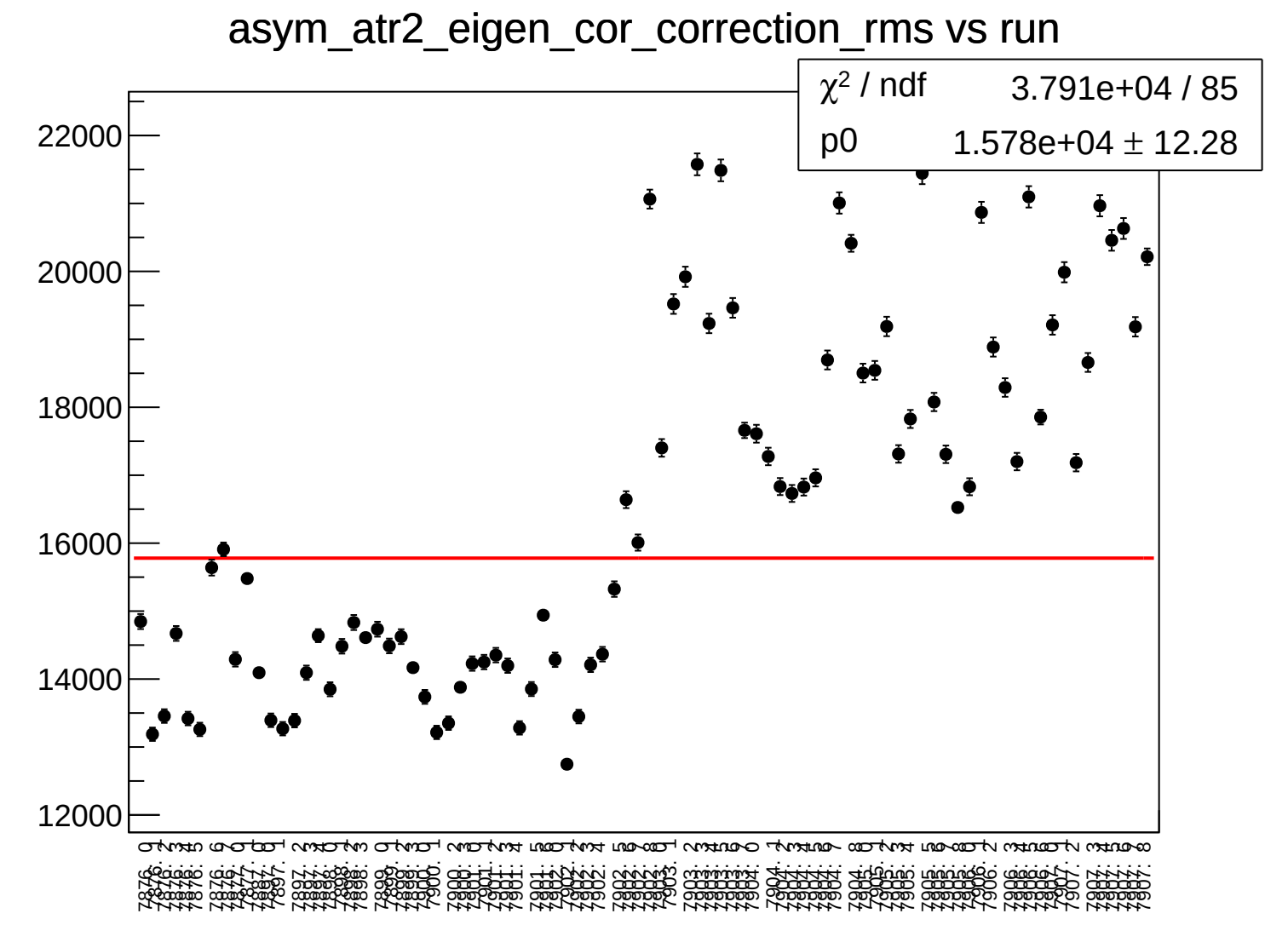

asym_atr2_cor_correction_rms vs run
χ² / ndf 3.791e+04 / 85
p0 1.578e+04 ± 12.28
22000
20000
18000
16000
14000
12000

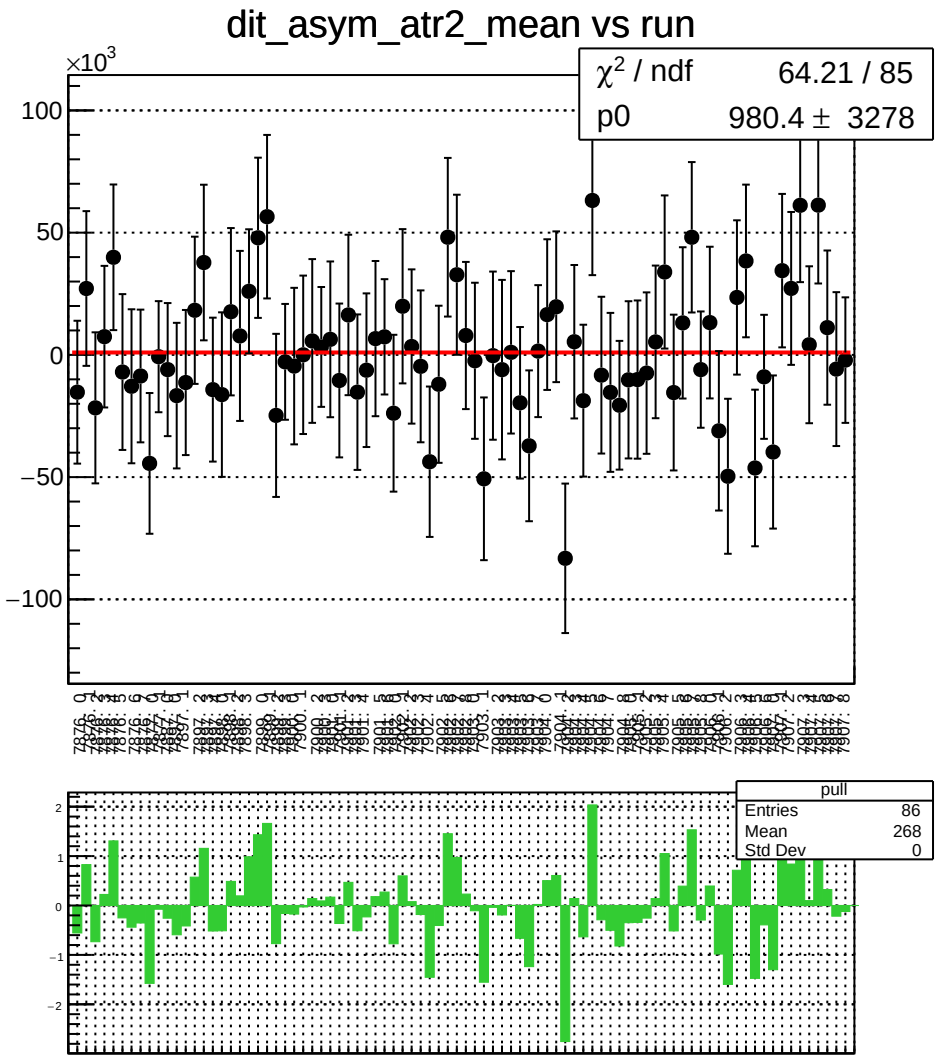

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 67.7 / 85
p0 1093 ± 3125
100
50
0
−50
−100
pull
Entries 86
Mean 232.5
Std Dev 0
2
1
0
−1
−2

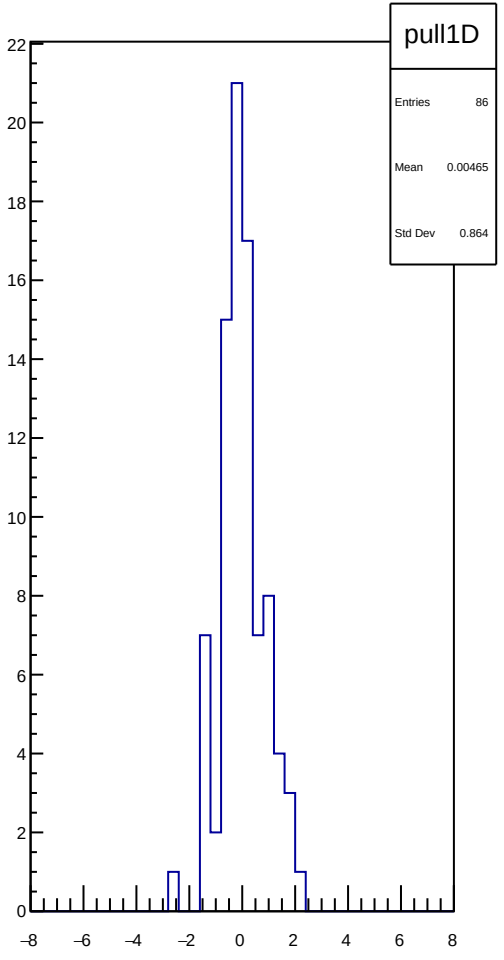

pull1D
Entries 86
Mean 0.008536
Std Dev 0.8872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

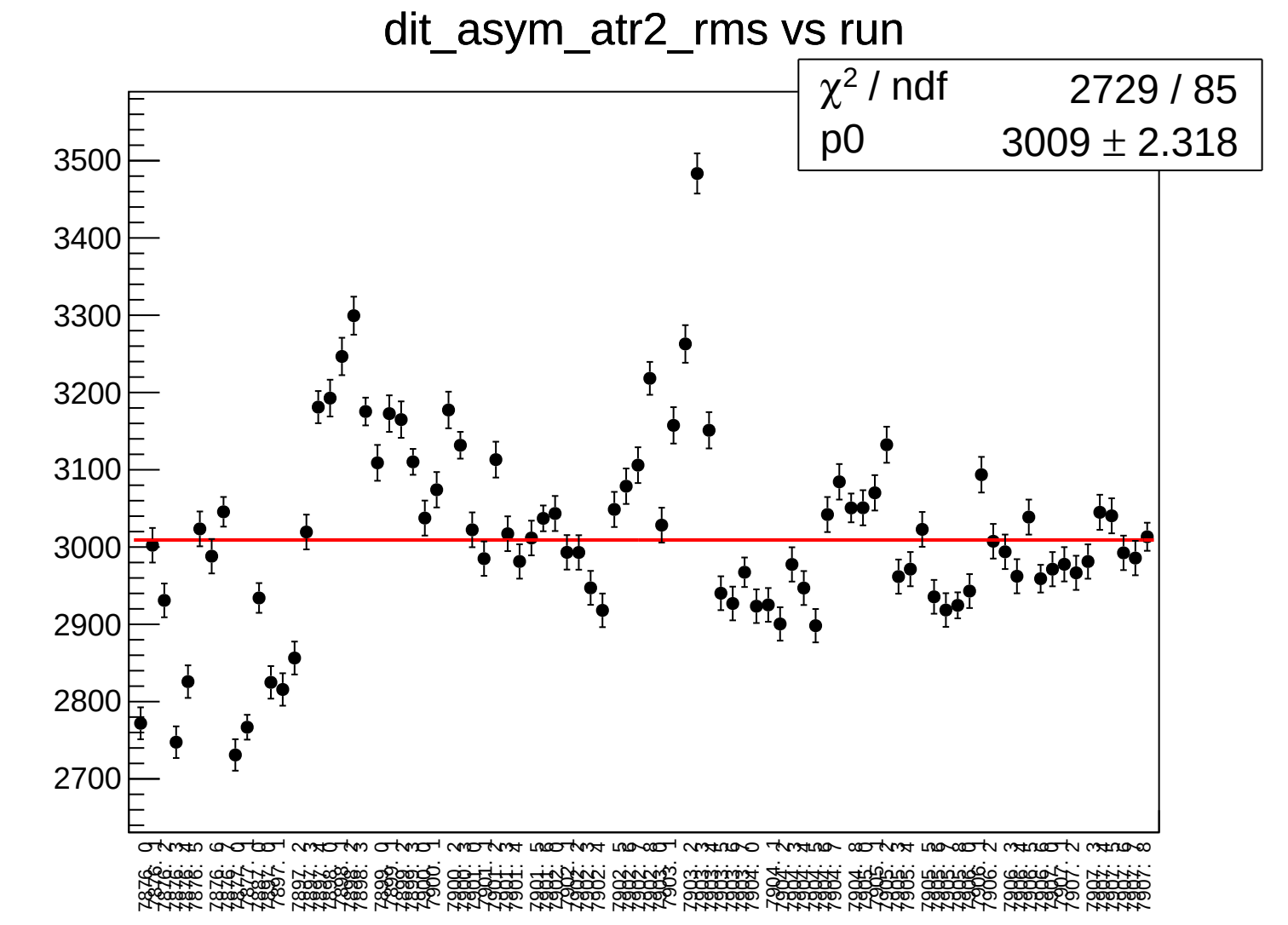

eigen_cor_asym_atr2_rms vs run
χ² / ndf 2963 / 85
p0 2869 ± 2.21
3300
3200
3100
3000
2900
2800
2700
2600

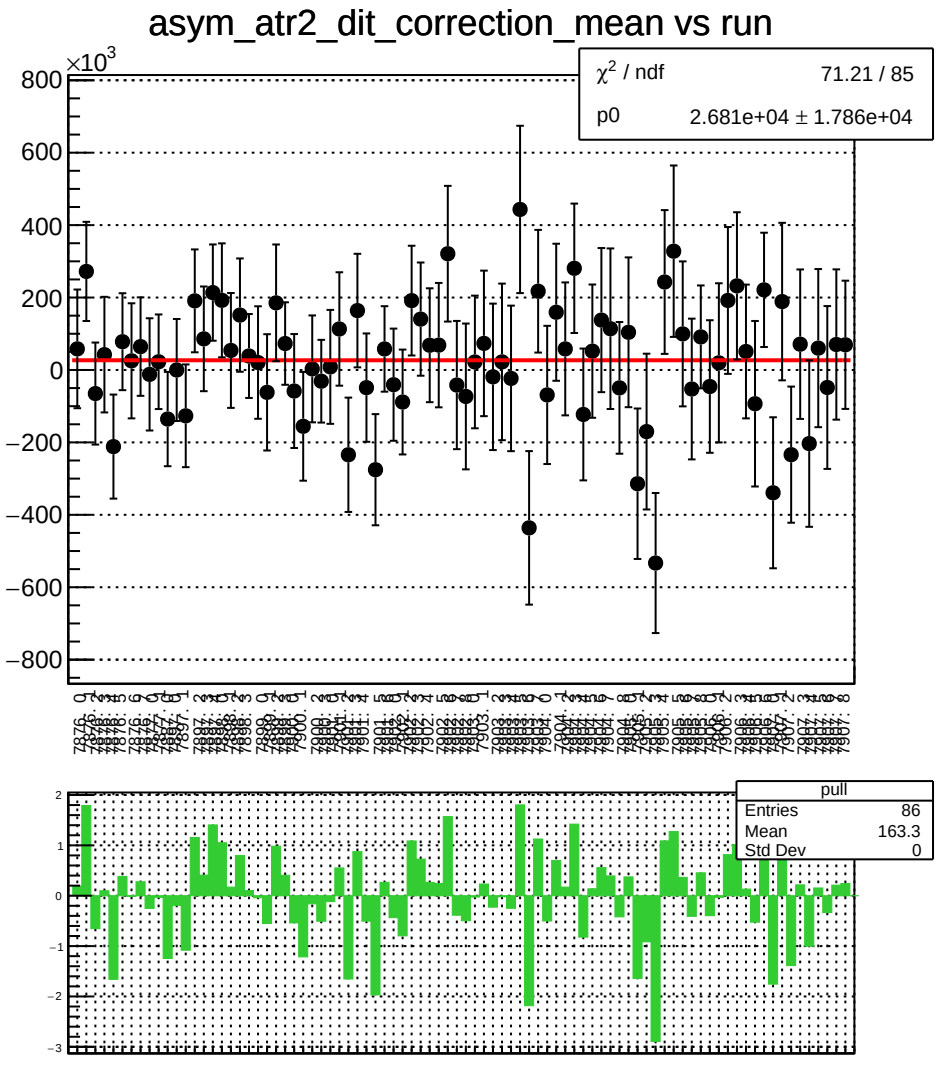

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 71.21 / 85
p0 2.531e+04 ± 1.737e+04
pull
Entries 86
Mean 596.7
Std Dev 0
pull1D
Entries 86
Mean −0.001381
Std Dev 0.9099

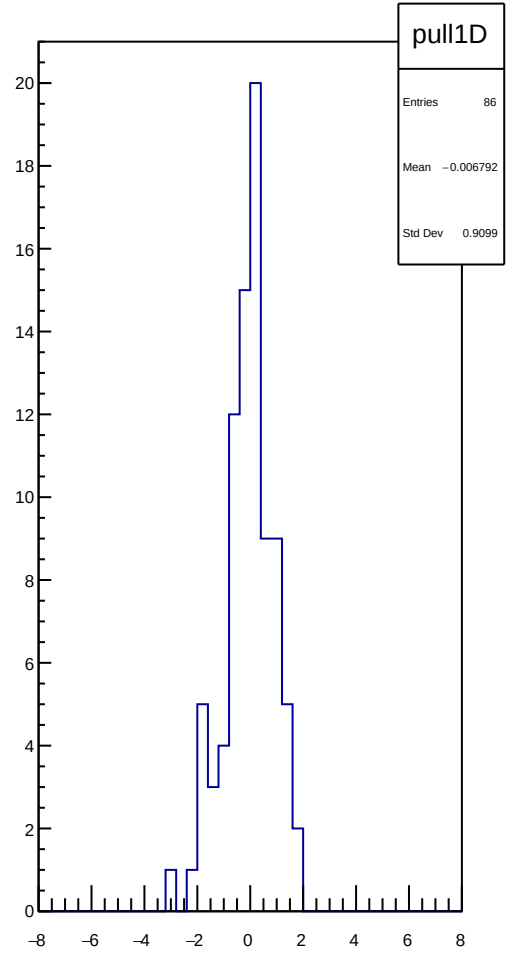

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3.791e+04 / 85
p0 1.578e+04 ± 12.28
22000
20000
18000
16000
14000
12000

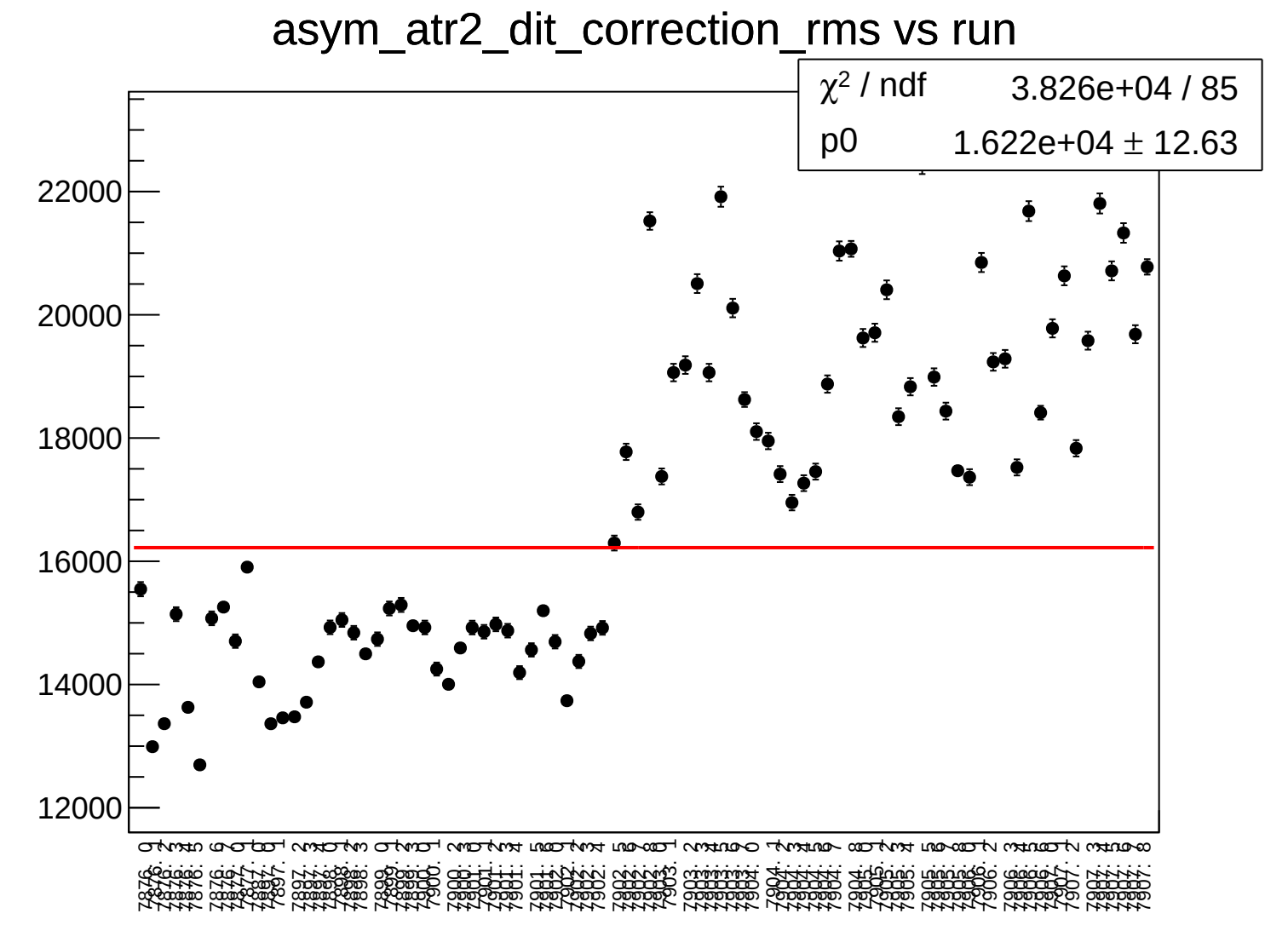

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 64.21 / 85
p0 980.4 ± 3278
100
50
0
−50
−100
pull
Entries 86
Mean 268
Std Dev 0
2
1
0
−1
−2

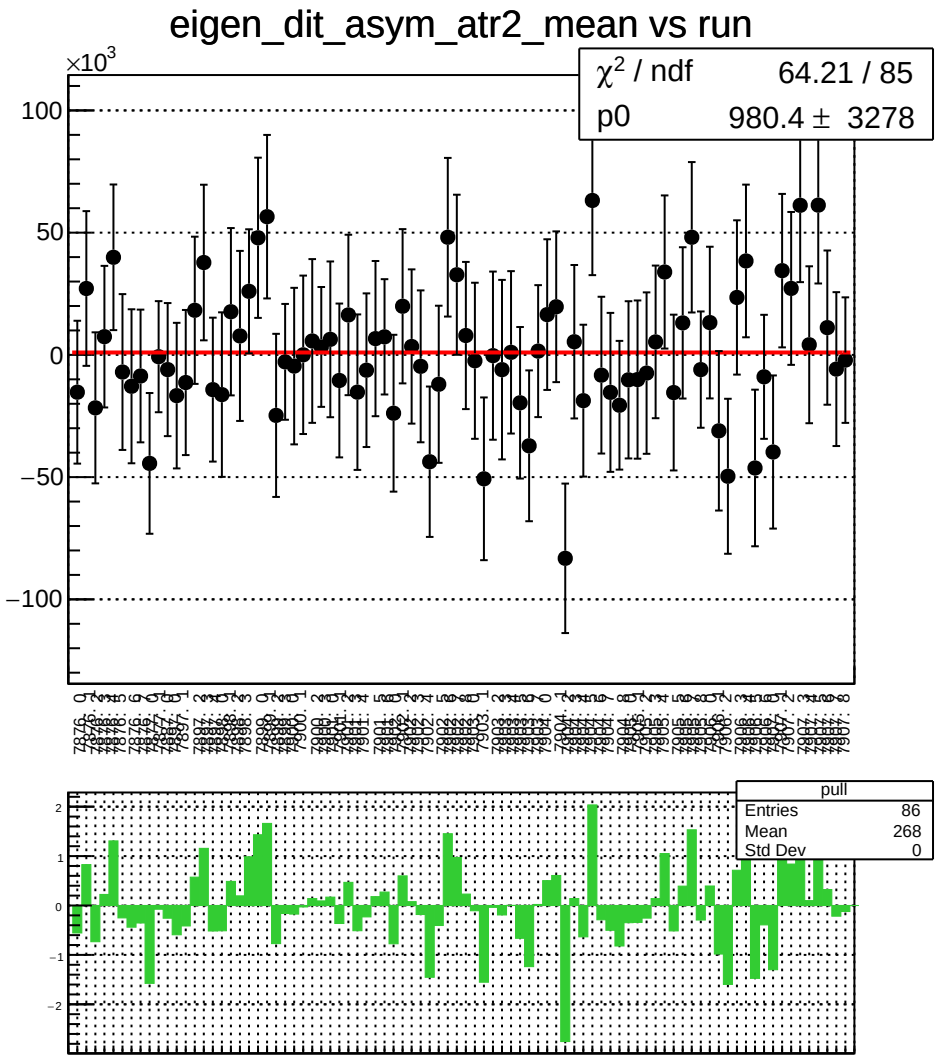

pull1D
Entries 86
Mean 0.00465
Std Dev 0.864
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

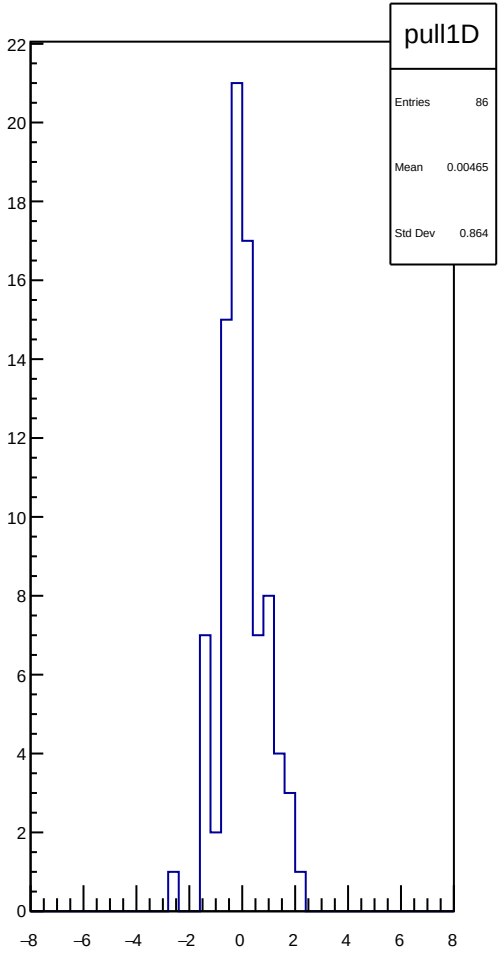

dit_asym_atr2_rms vs run
χ² / ndf 2729 / 85
p0 3009 ± 2.318
3500
3400
3300
3200
3100
3000
2900
2800
2700

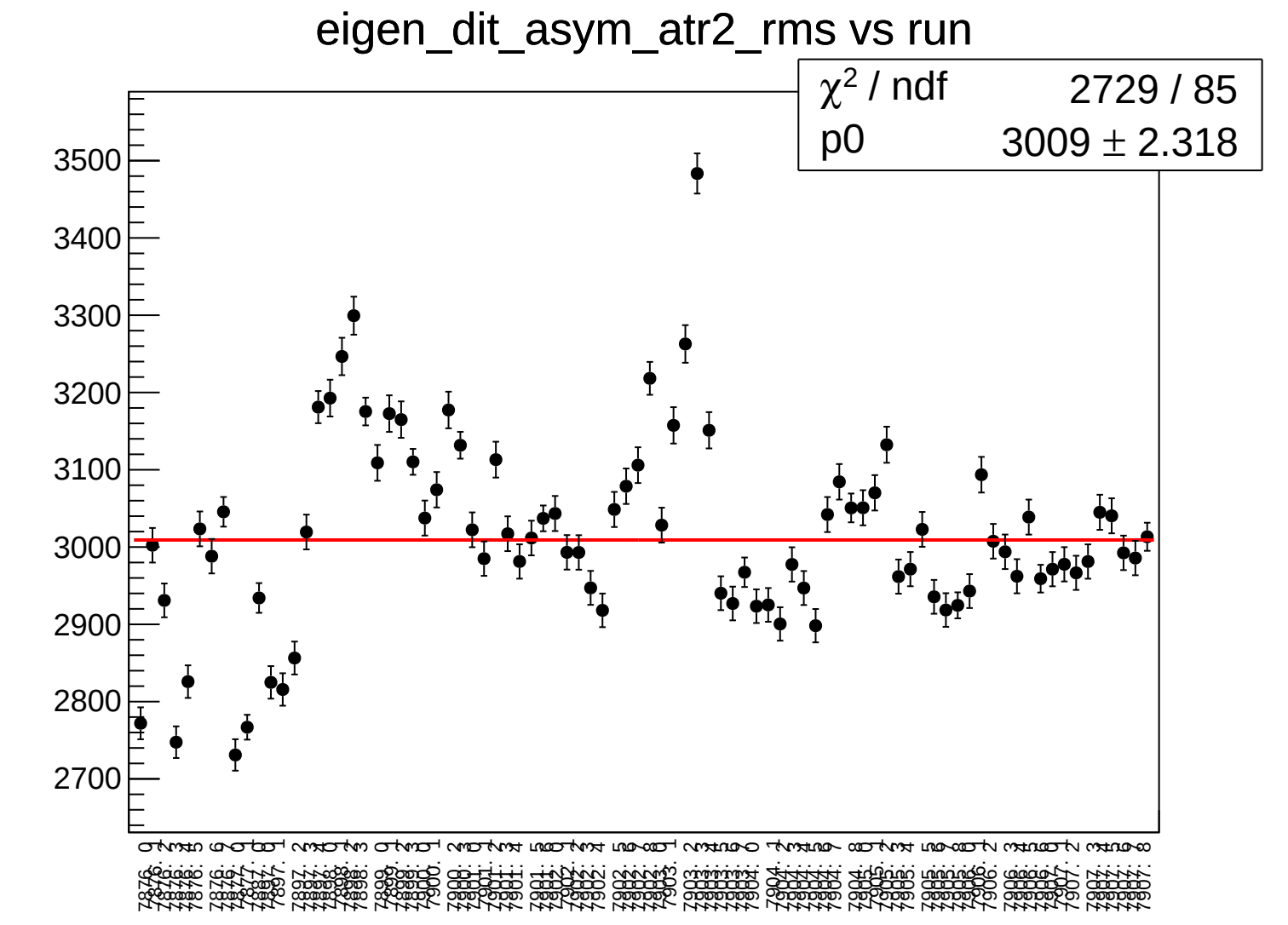

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 71.21 / 85
p0 2.681e+04 ± 1.786e+04
pull
Entries 86
Mean 163.3
Std Dev 0

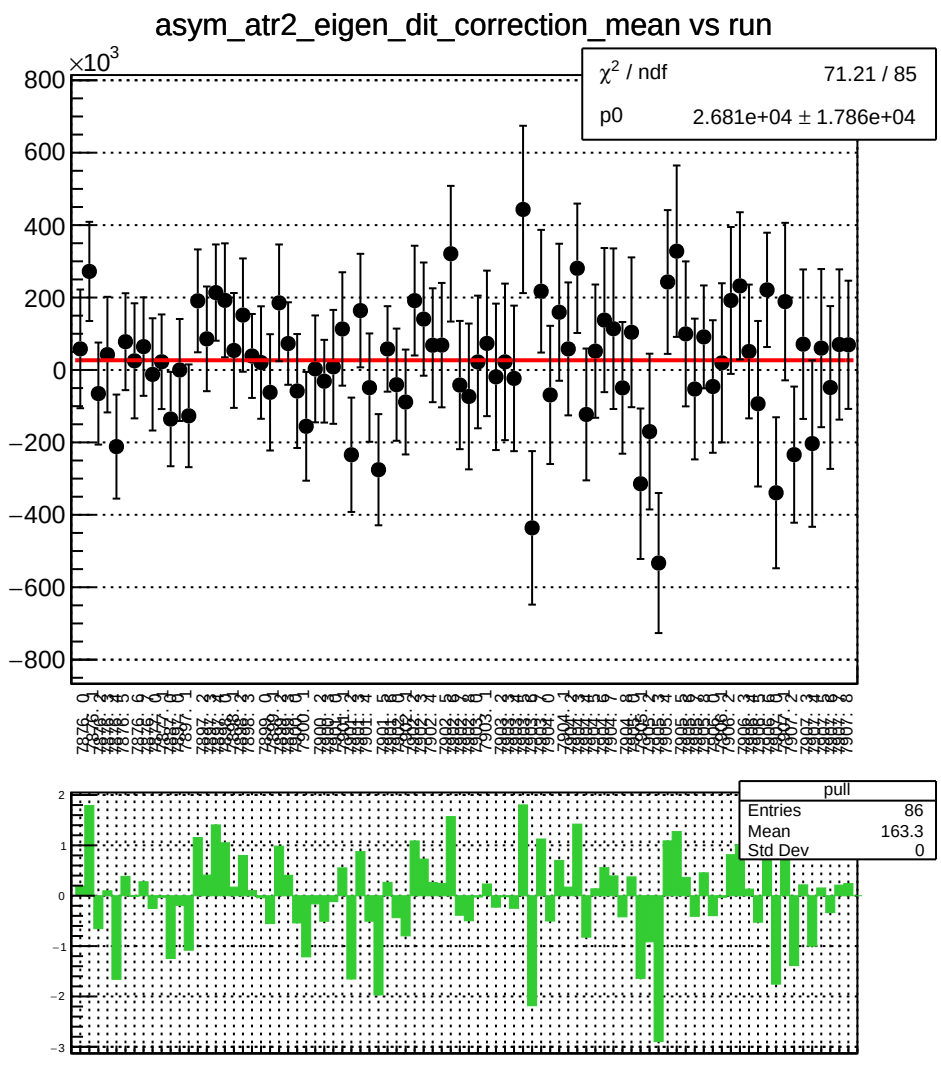

pull1D
Entries 86
Mean −0.006792
Std Dev 0.9099

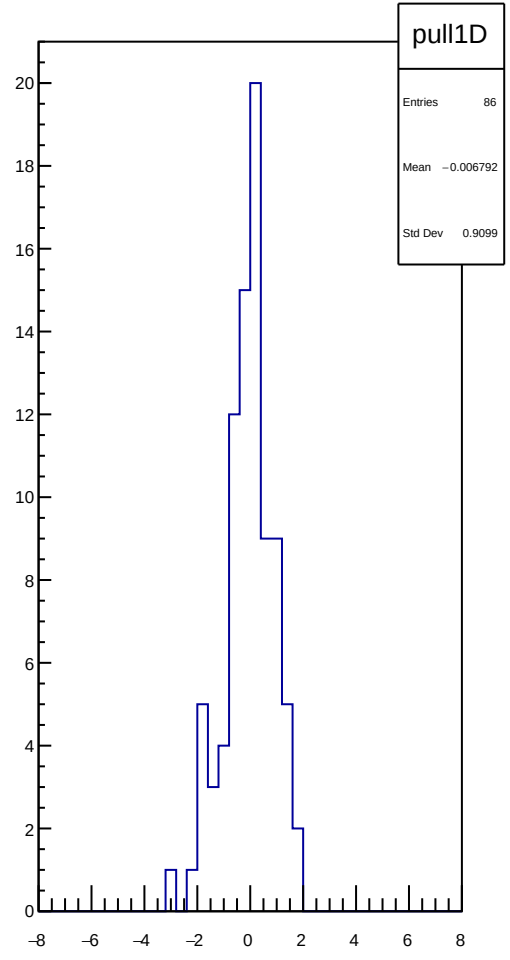

asym_atr2_dit_correction_rms vs run
χ² / ndf 3.826e+04 / 85
p0 1.622e+04 ± 12.63
22000
20000
18000
16000
14000
12000

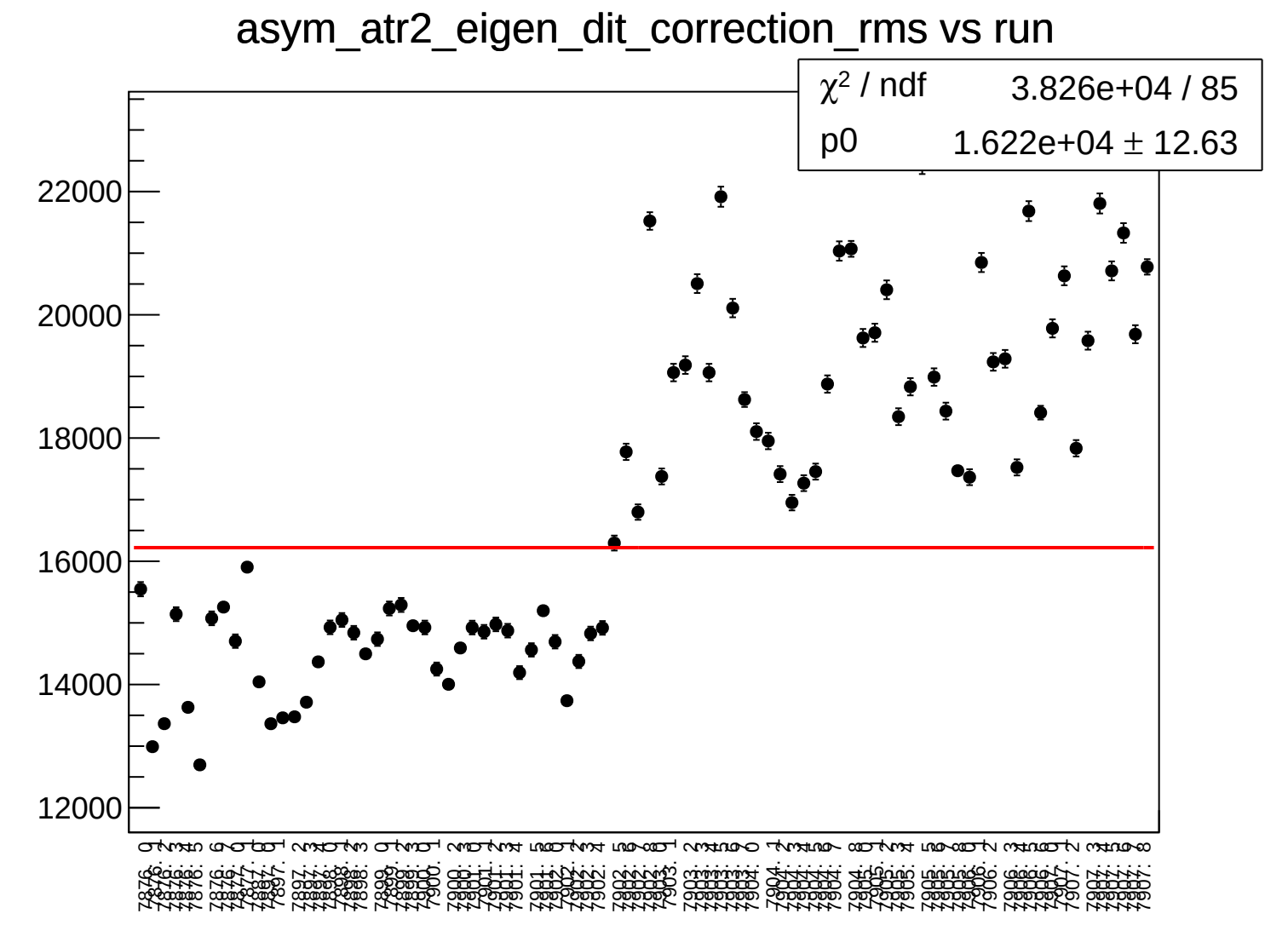

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 64.21 / 85
p0 980.4 ± 3278
100
50
0
−50
−100
pull
Entries 86
Mean 268
Std Dev 0
2
1
0
−1
−2

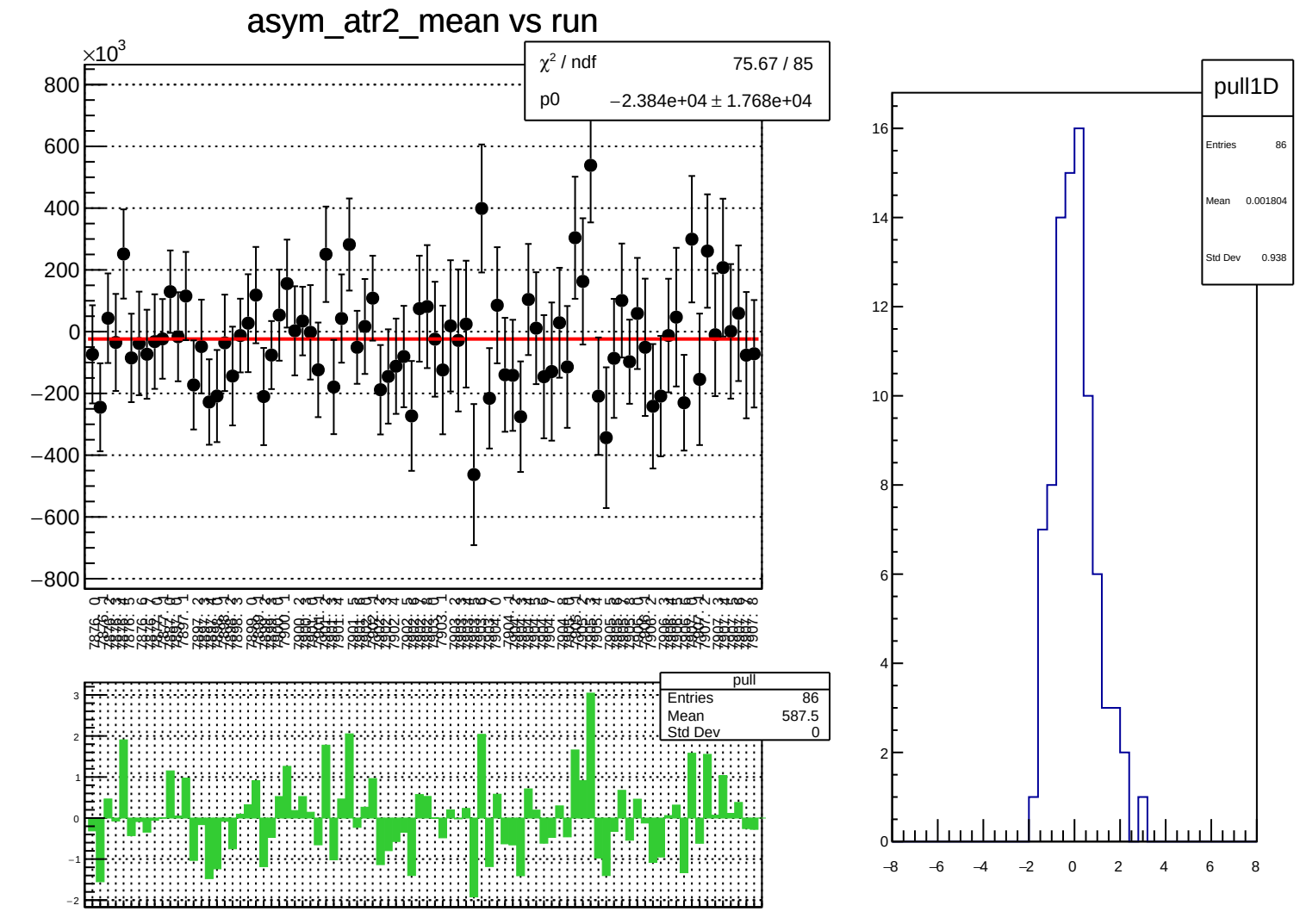

pull1D
Entries 86
Mean 0.00465
Std Dev 0.864
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

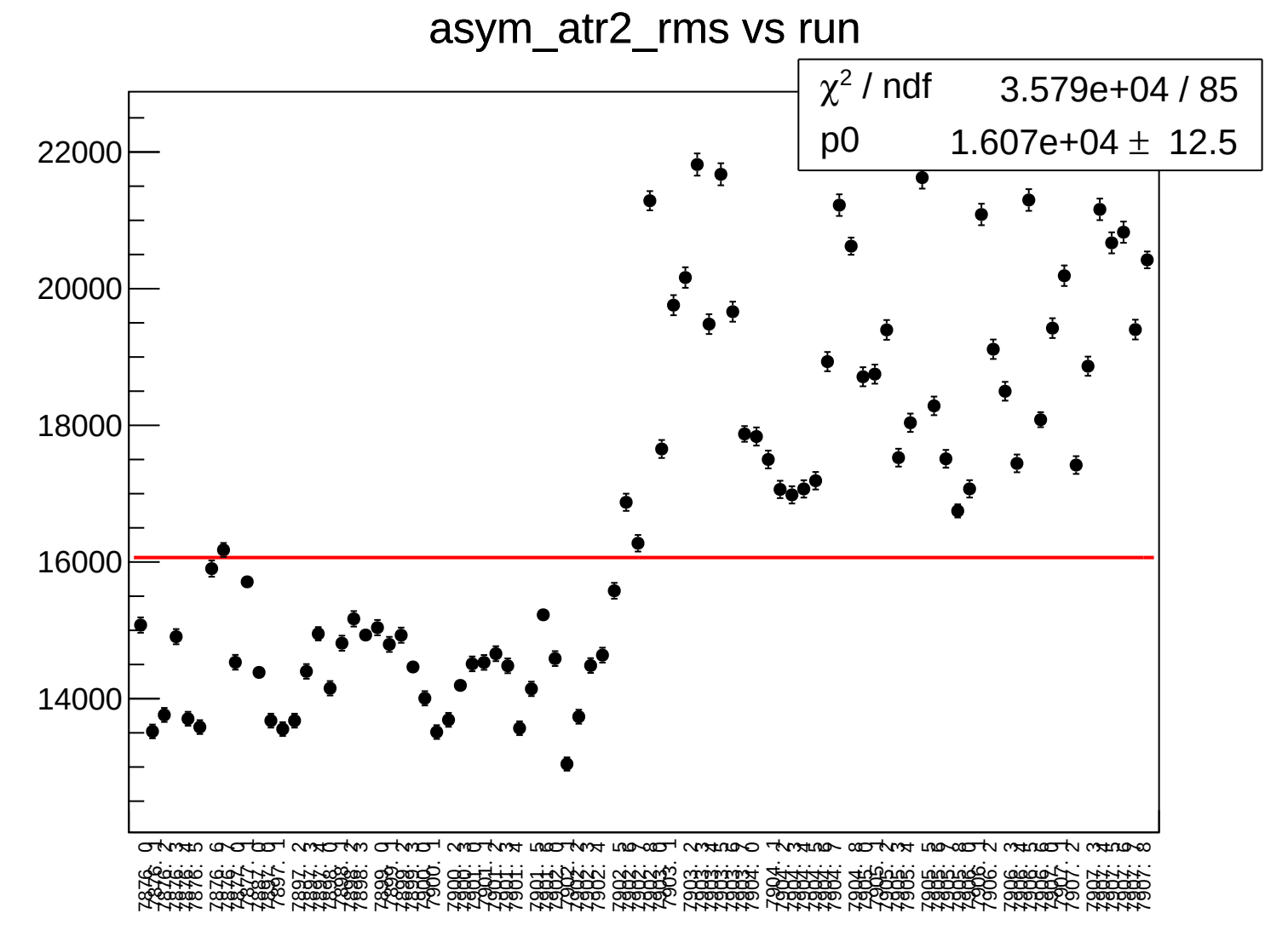

eigen_dit_asym_atr2_rms vs run
χ² / ndf 2729 / 85
p0 3009 ± 2.318
3500
3400
3300
3200
3100
3000
2900
2800
2700

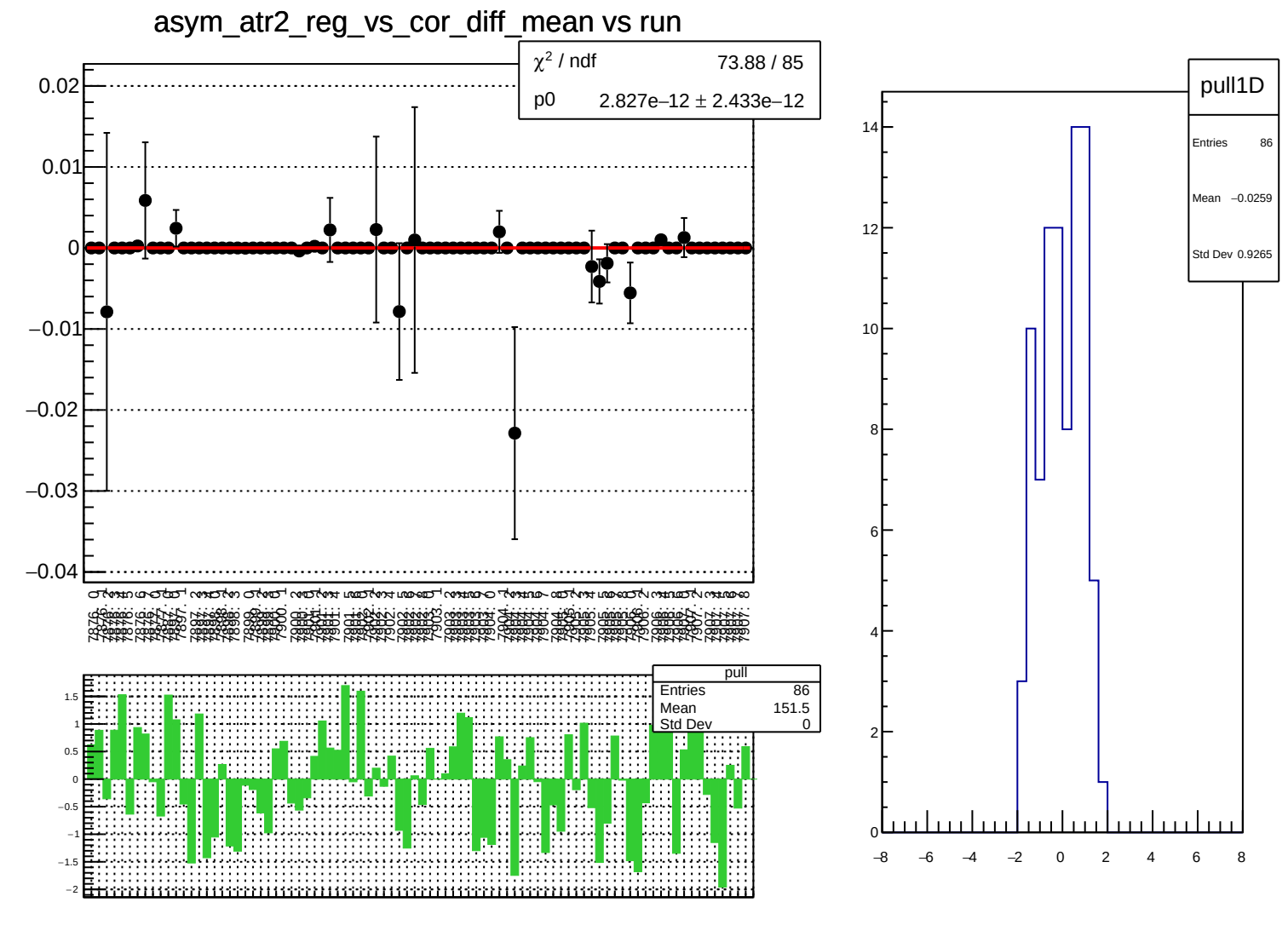

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 71.21 / 85
p0 2.681e+04 ± 1.786e+04
pull
Entries 86
Mean 163.3
Std Dev 0

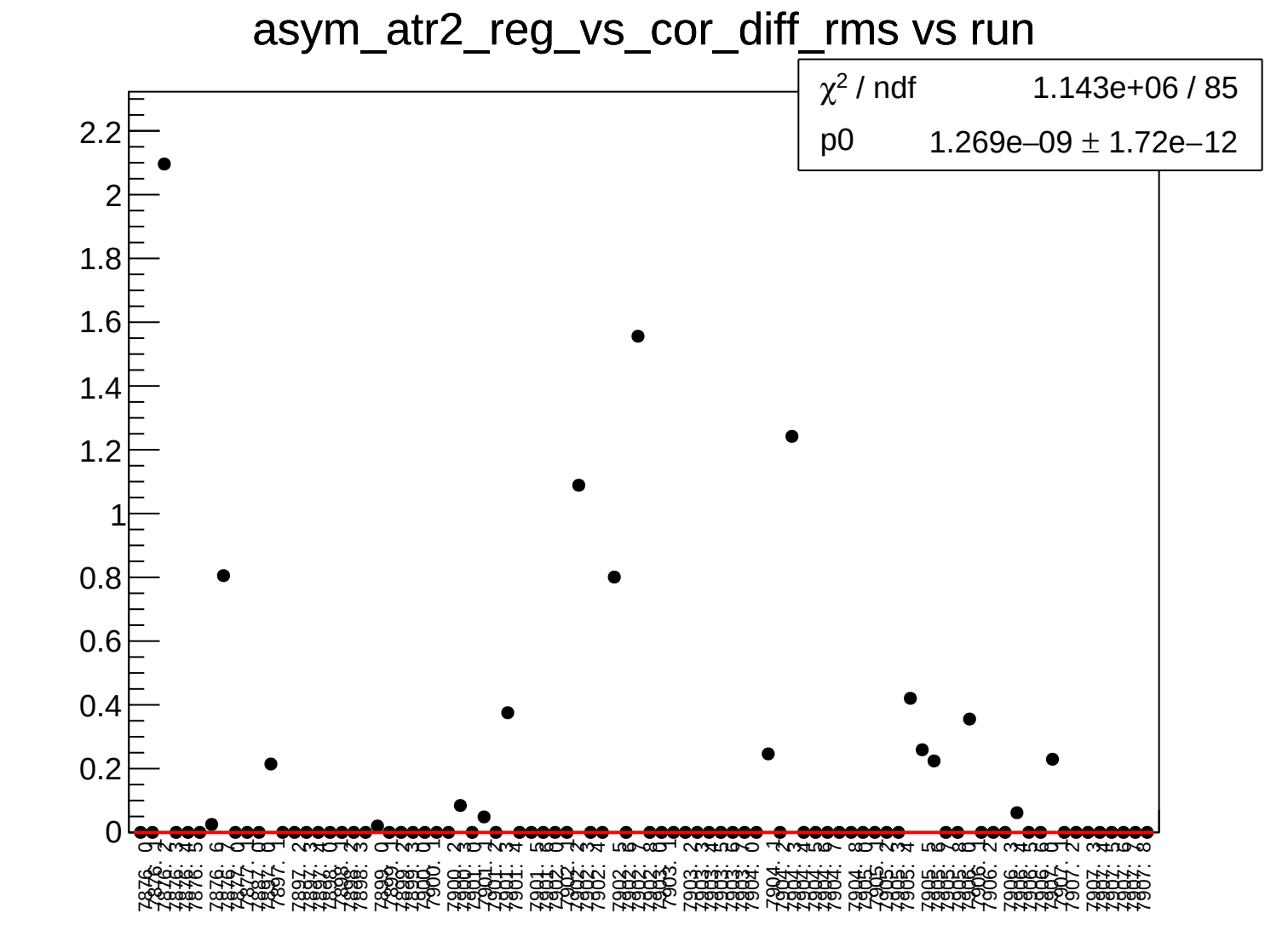

pull1D
Entries 86
Mean −0.006792
Std Dev 0.9099

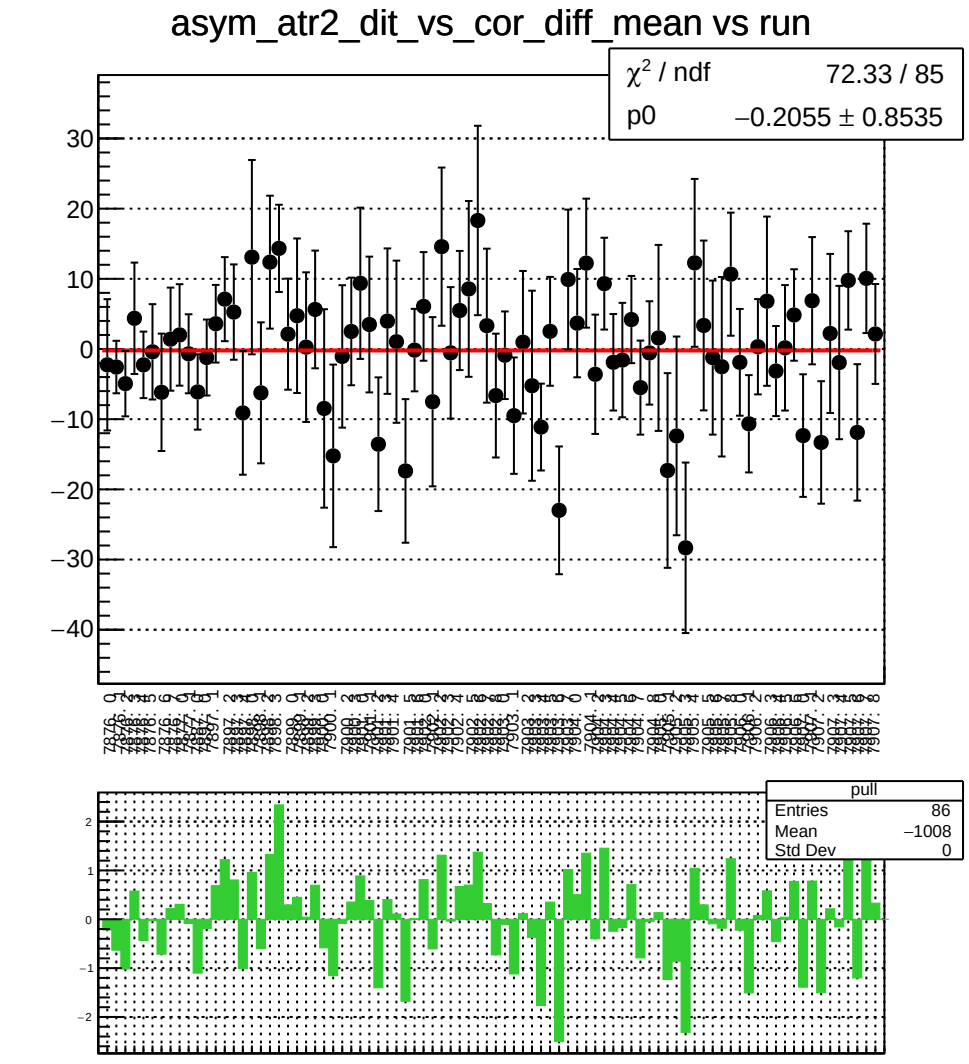

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 3.826e+04 / 85
p0 1.622e+04 ± 12.63
22000
20000
18000
16000
14000
12000

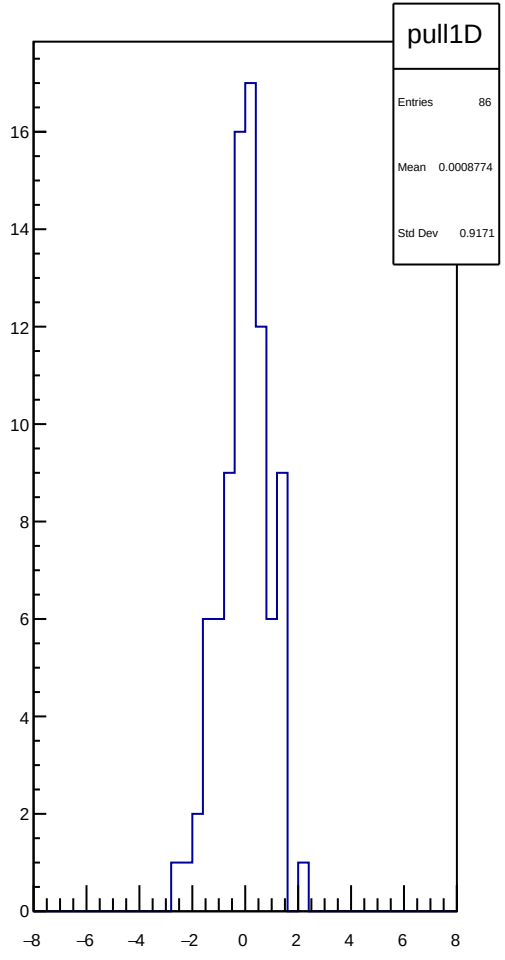

asym_atr2_mean vs run
×10^3
χ² / ndf 75.67 / 85
p0 −2.384e+04 ± 1.768e+04
pull
Entries 86
Mean 587.5
Std Dev 0
pull1D
Entries 86
Mean 0.001804
Std Dev 0.938

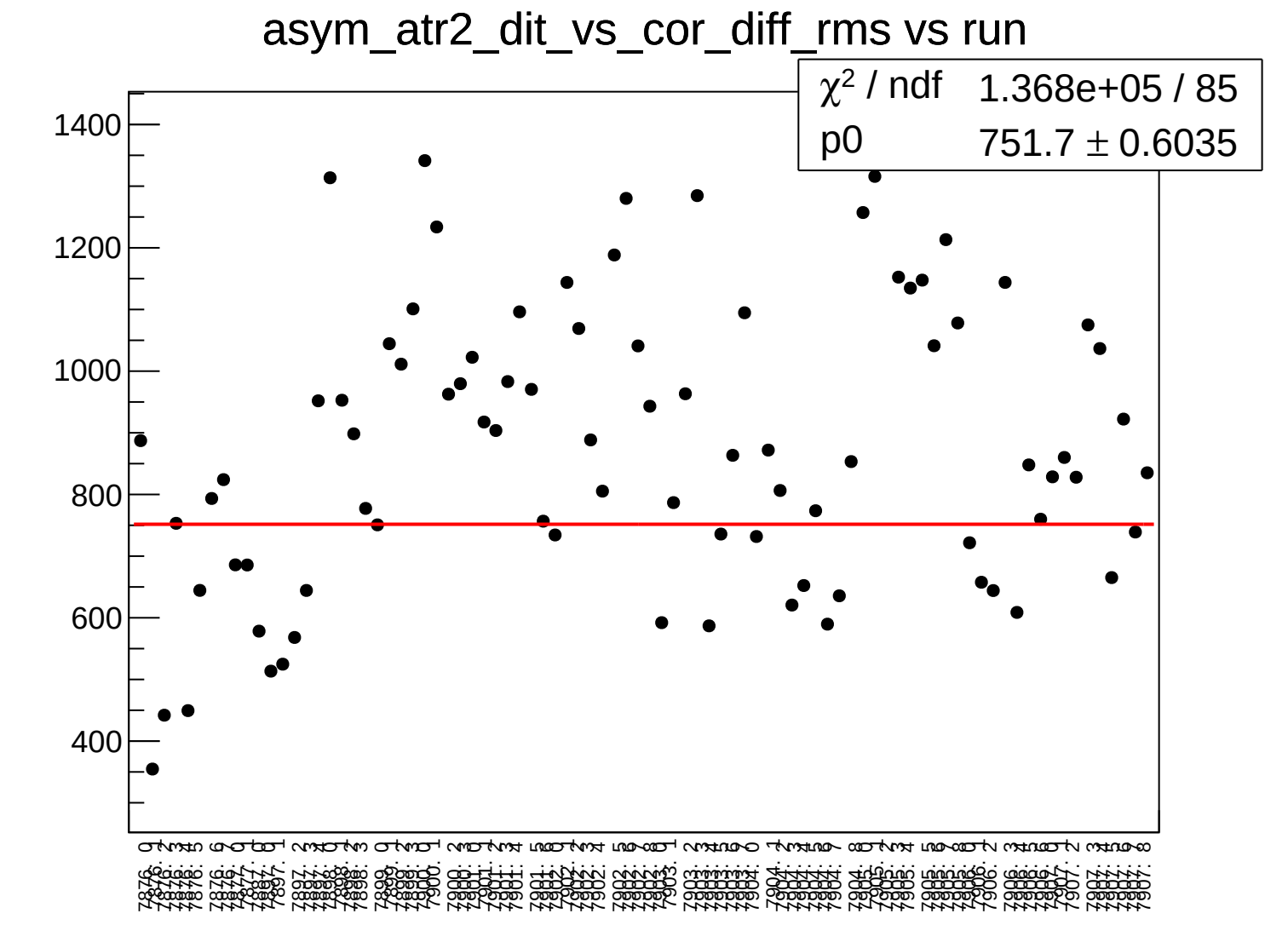

asym_atr2_rms vs run
χ^2 / ndf 3.579e+04 / 85
p0 1.607e+04 ± 12.5
22000
20000
18000
16000
14000

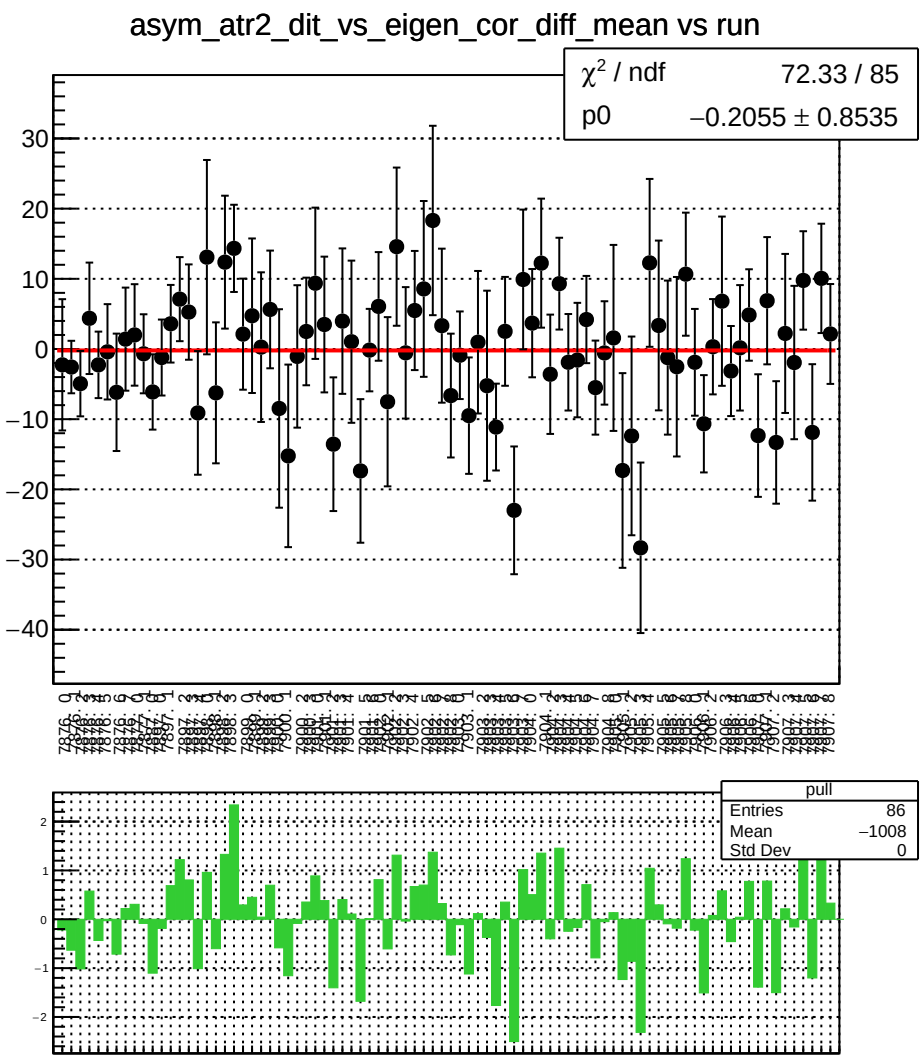

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 73.88 / 85
p0 2.827e−12 ± 2.433e−12
pull
Entries 86
Mean 151.5
Std Dev 0
pull1D
Entries 86
Mean −0.0259
Std Dev 0.9265

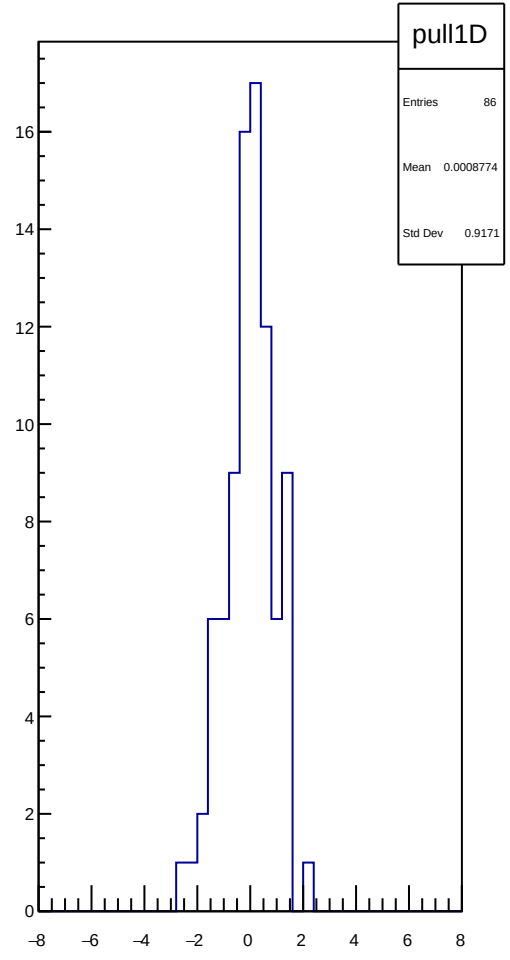

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.143e+06 / 85
p0 1.269e−09 ± 1.72e−12
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

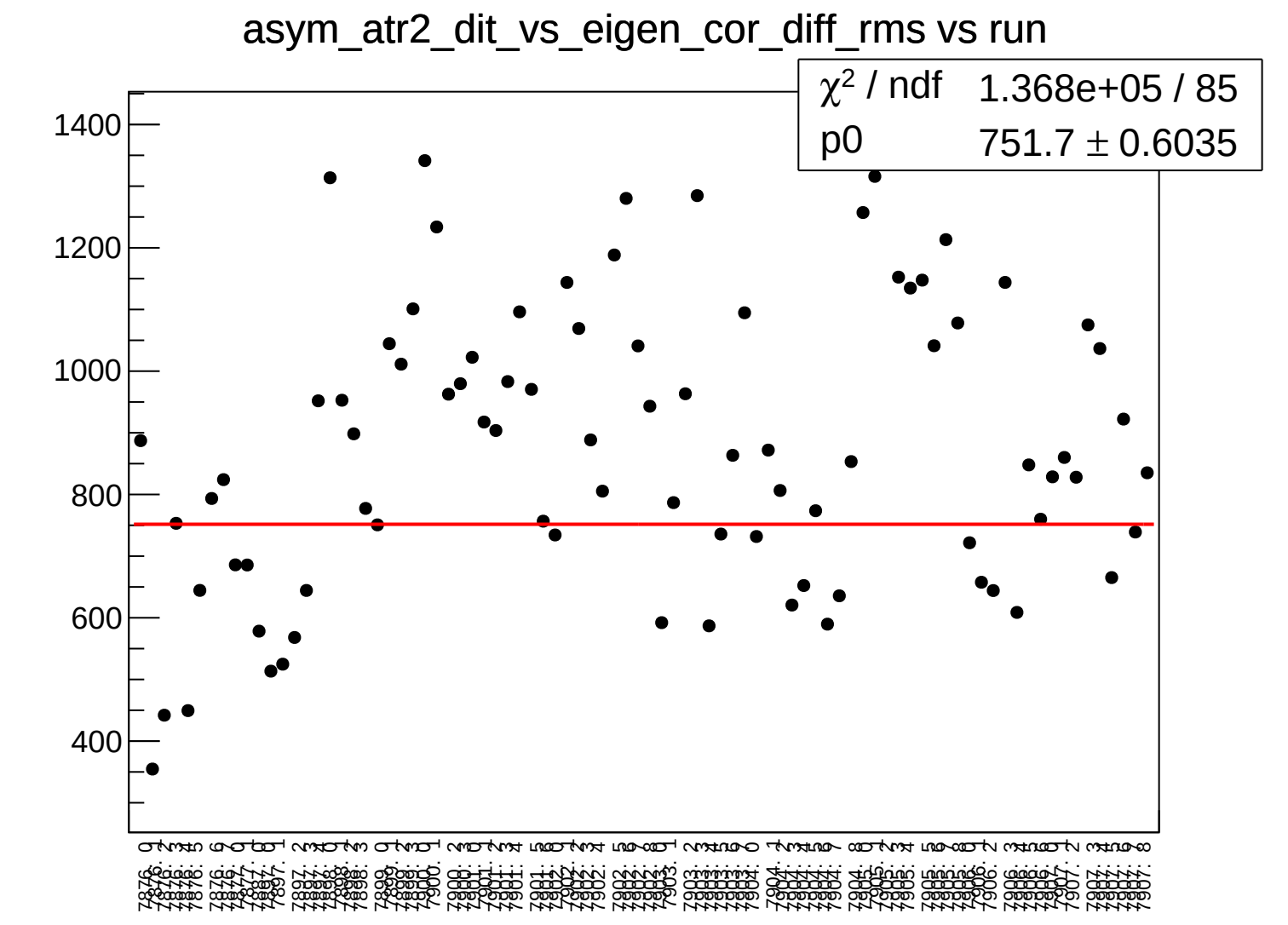

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 72.33 / 85
p0 −0.2055 ± 0.8535
pull
Entries 86
Mean −1008
Std Dev 0

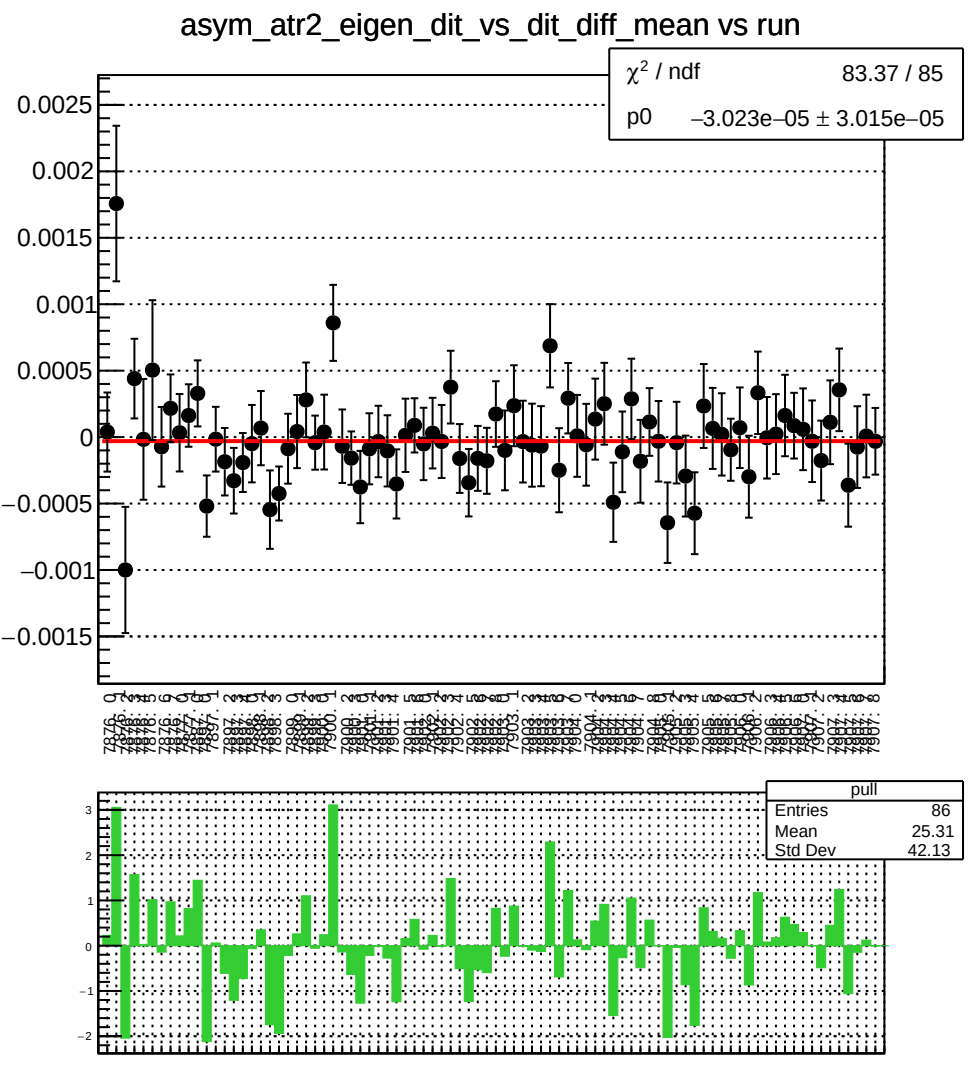

pull1D
Entries 86
Mean 0.0008774
Std Dev 0.9171

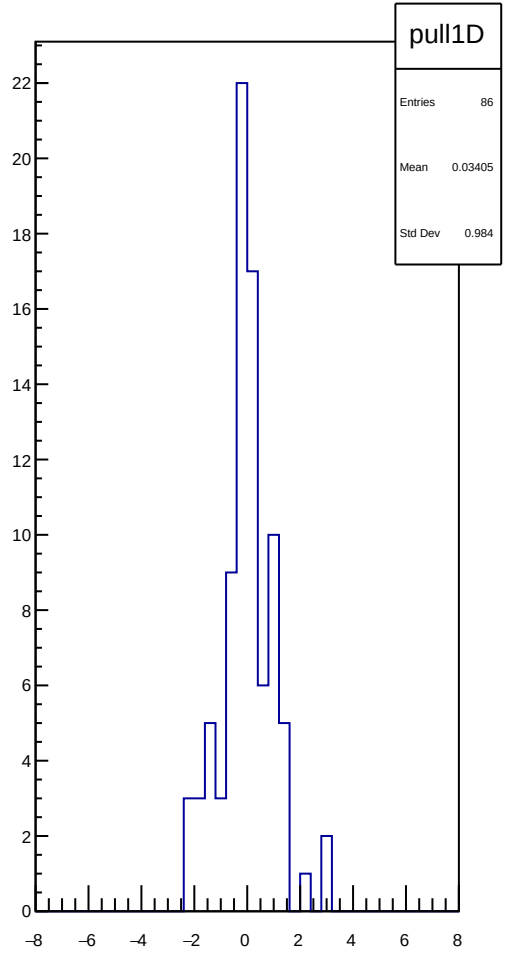

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.368e+05 / 85
p0 751.7 ± 0.6035
1400
1200
1000
800
600
400

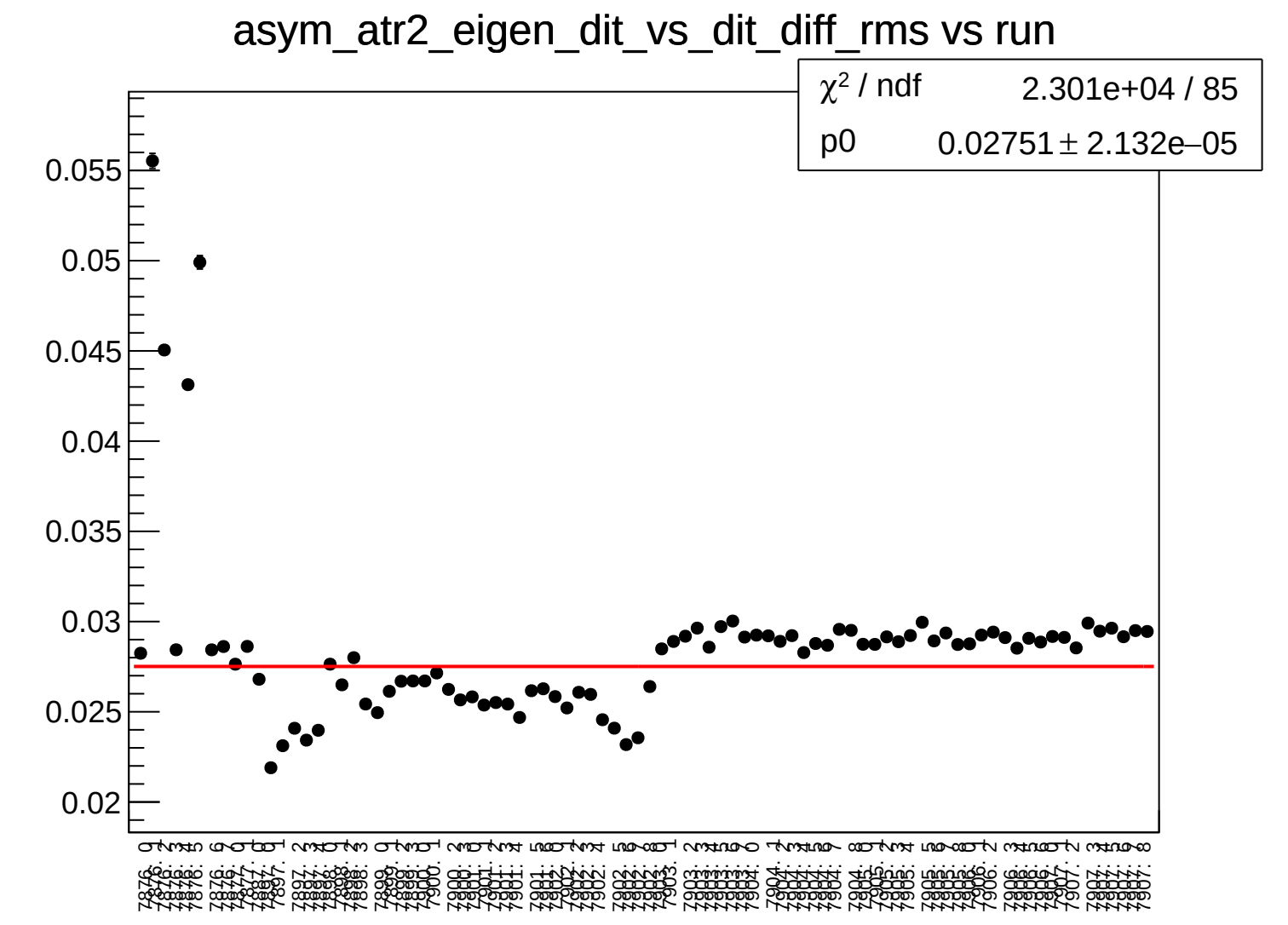

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.33 / 85
p0 −0.2055 ± 0.8535
pull
Entries 86
Mean −1008
Std Dev 0

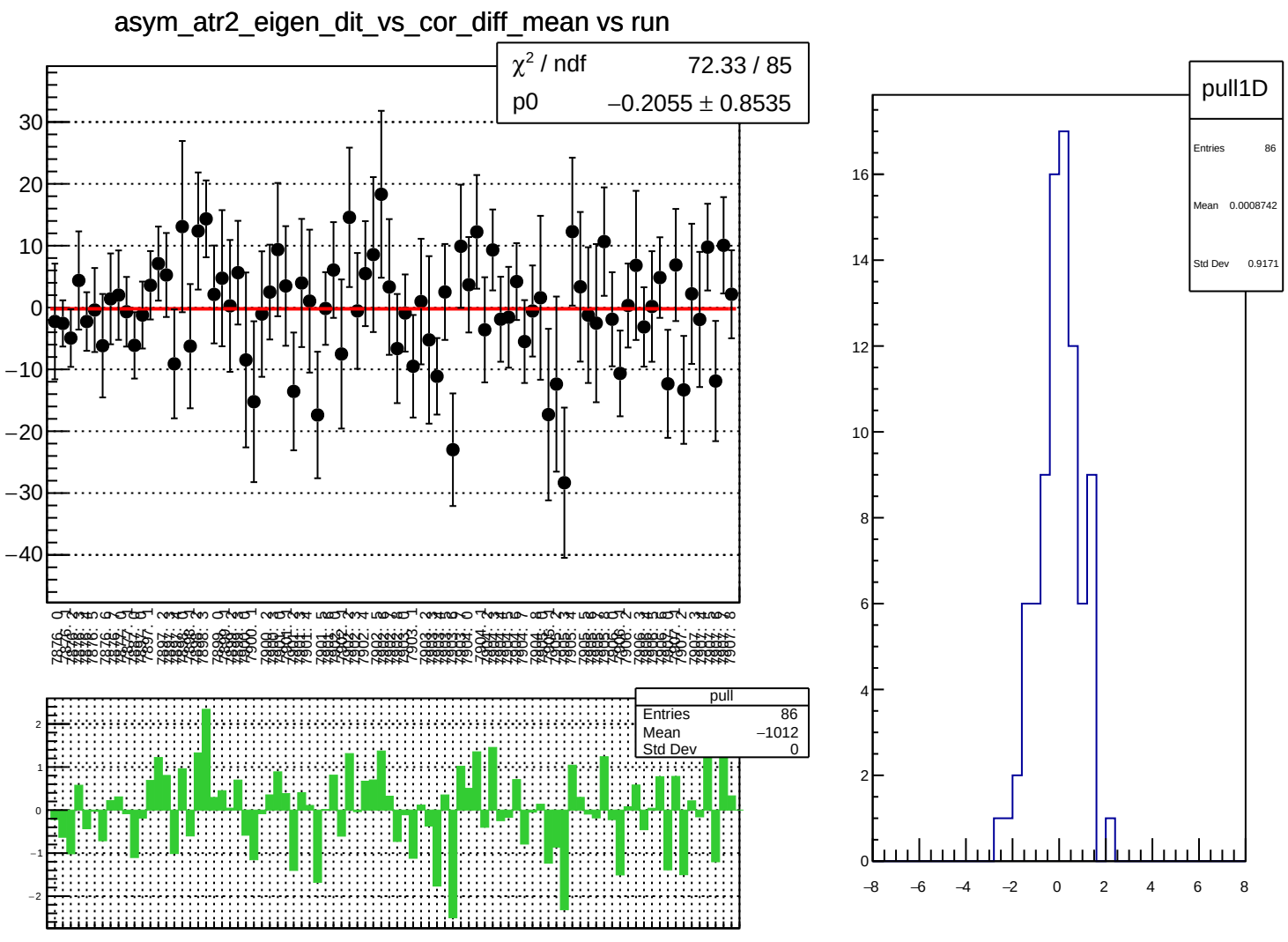

pull1D
Entries 86
Mean 0.0008774
Std Dev 0.9171

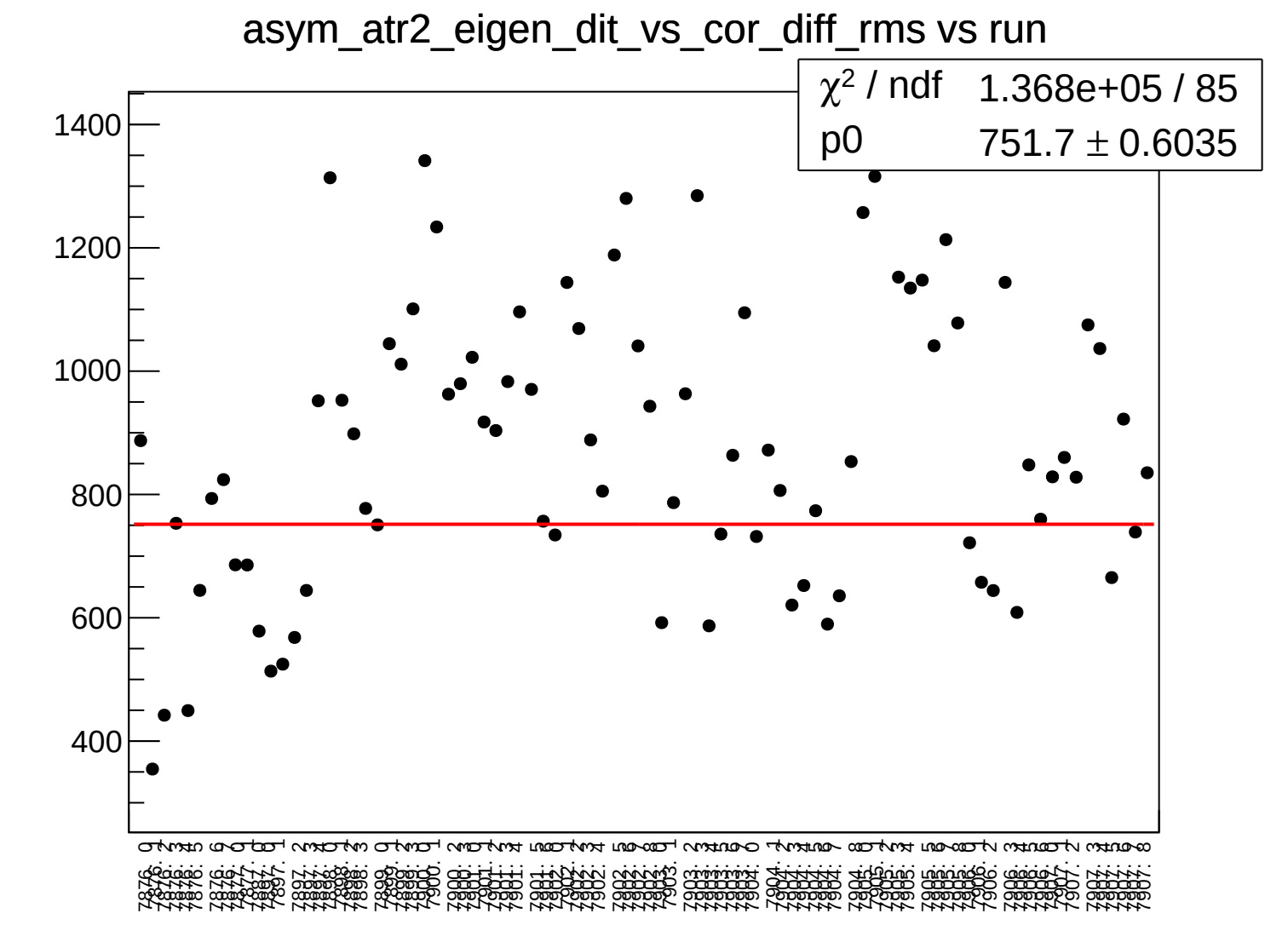

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.368e+05 / 85
p0 751.7 ± 0.6035
1400
1200
1000
800
600
400

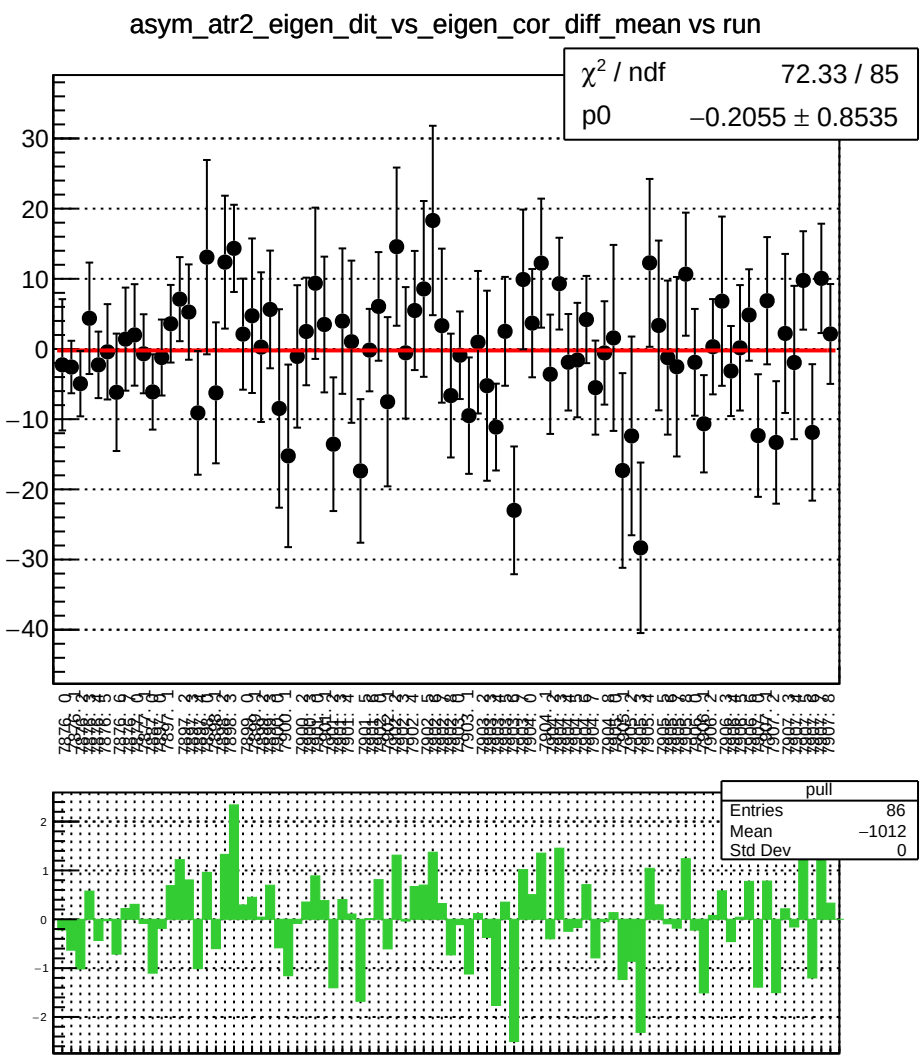

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 83.37 / 85
p0 −3.023e−05 ± 3.015e−05
pull
Entries 86
Mean 25.31
Std Dev 42.13

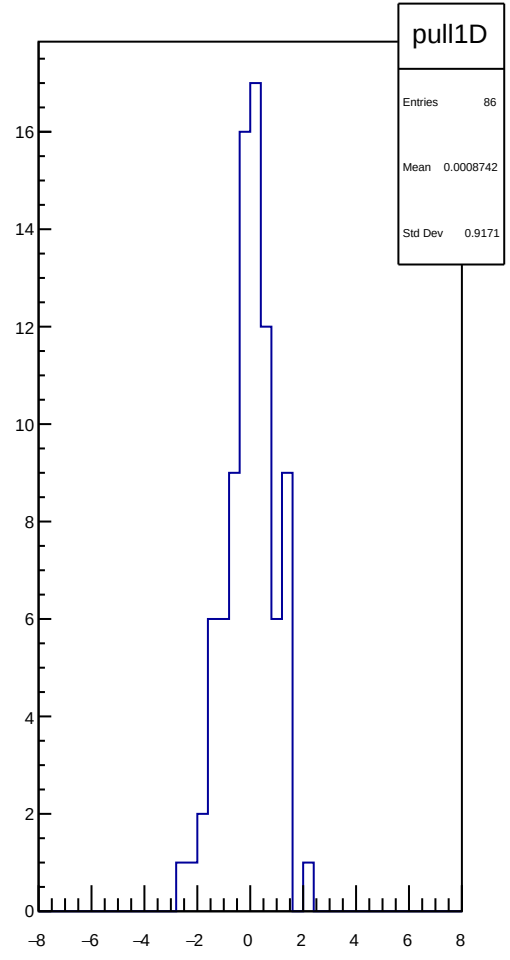

pull1D
Entries 86
Mean 0.03405
Std Dev 0.984

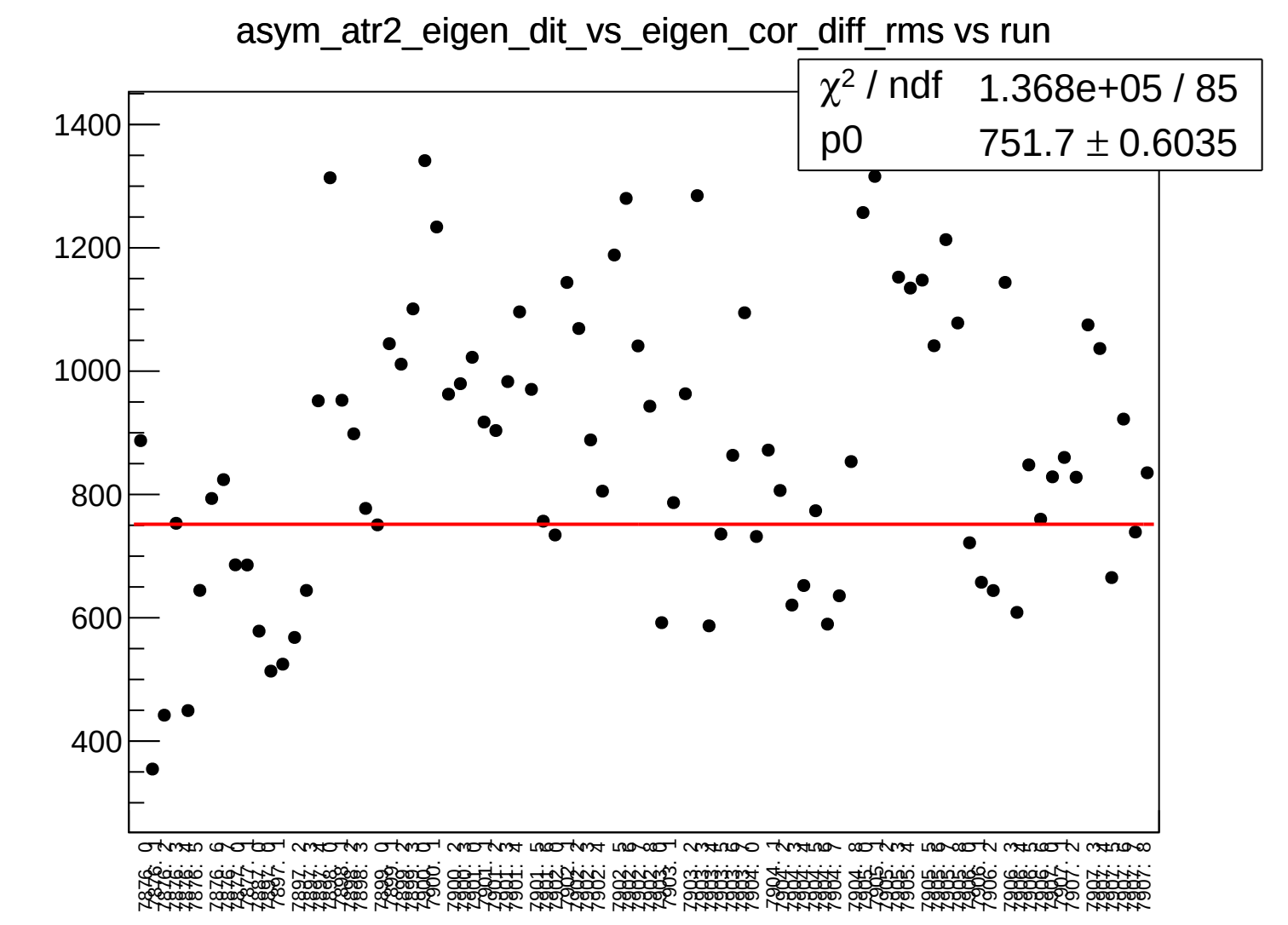

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.301e+04 / 85
p0 0.02751 ± 2.132e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

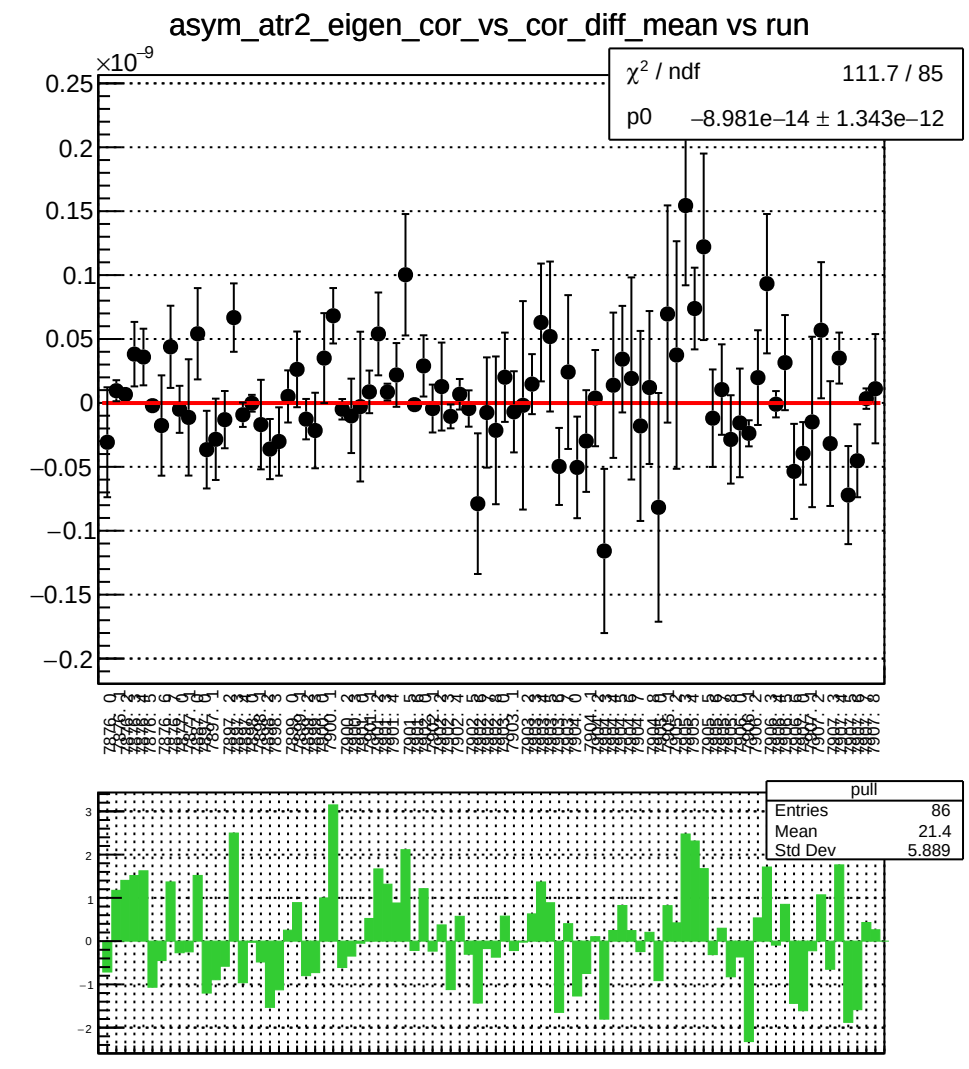

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.33 / 85
p0 −0.2055 ± 0.8535
pull
Entries 86
Mean −1012
Std Dev 0
pull1D
Entries 86
Mean 0.0008742
Std Dev 0.9171

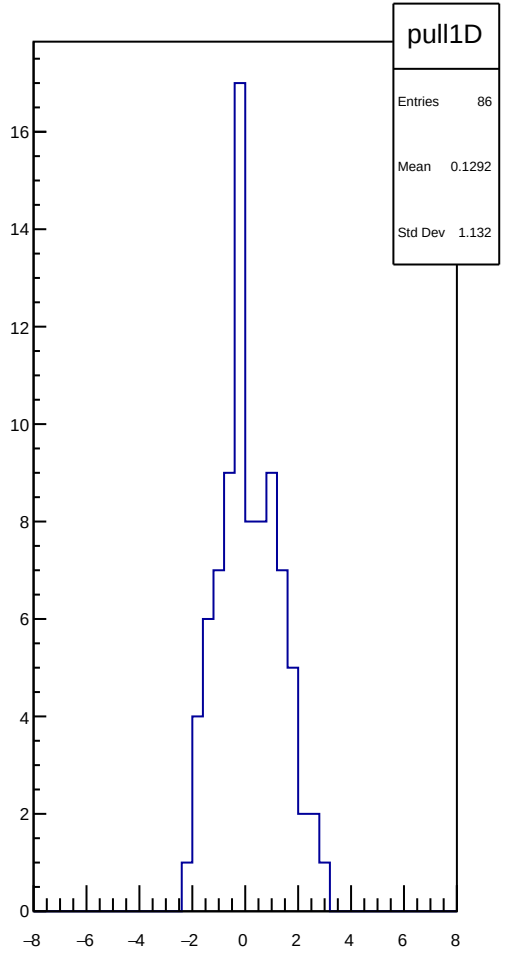

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.368e+05 / 85
p0 751.7 ± 0.6035
1400
1200
1000
800
600
400

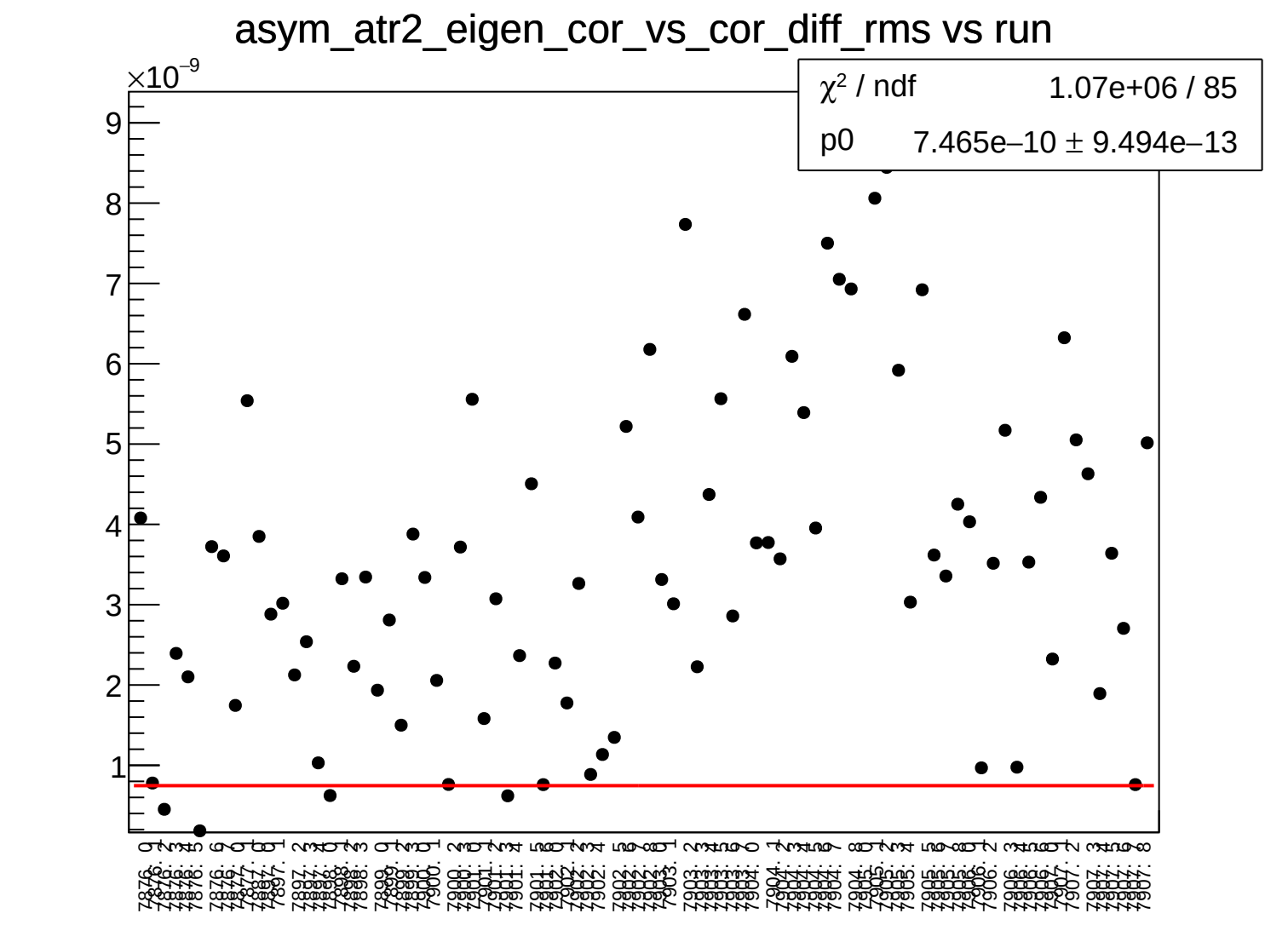

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.33 / 85
p0 −0.2055 ± 0.8535
pull
Entries 86
Mean −1012
Std Dev 0

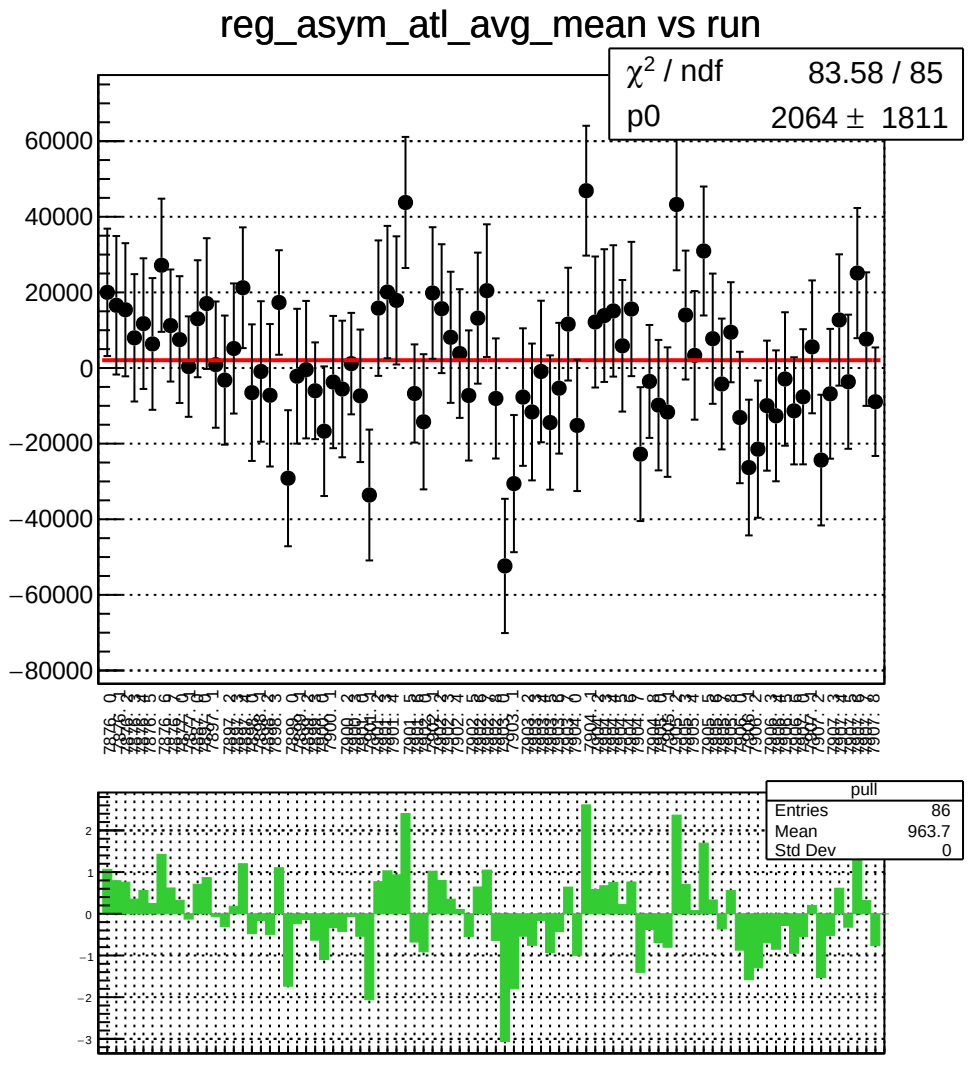

pull1D
Entries 86
Mean 0.0008742
Std Dev 0.9171

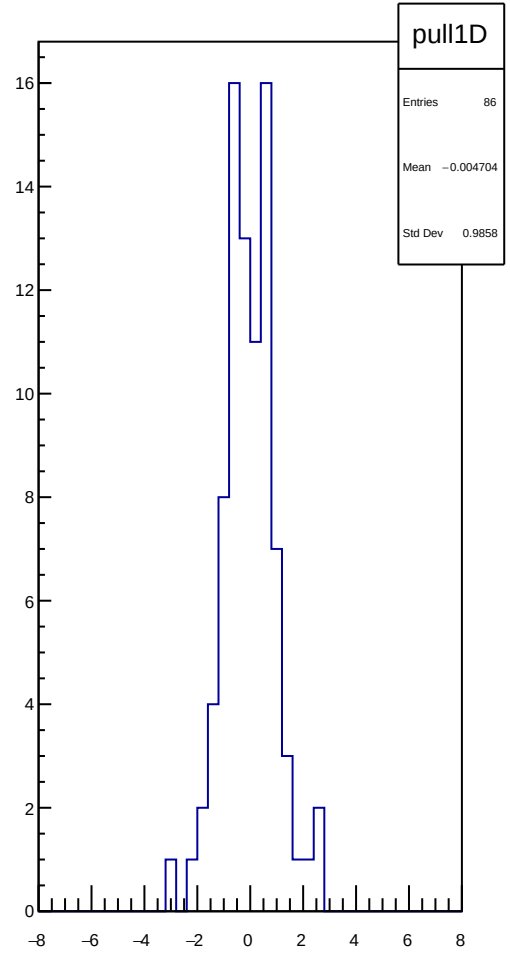

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.368e+05 / 85
p0 751.7 ± 0.6035
1400
1200
1000
800
600
400

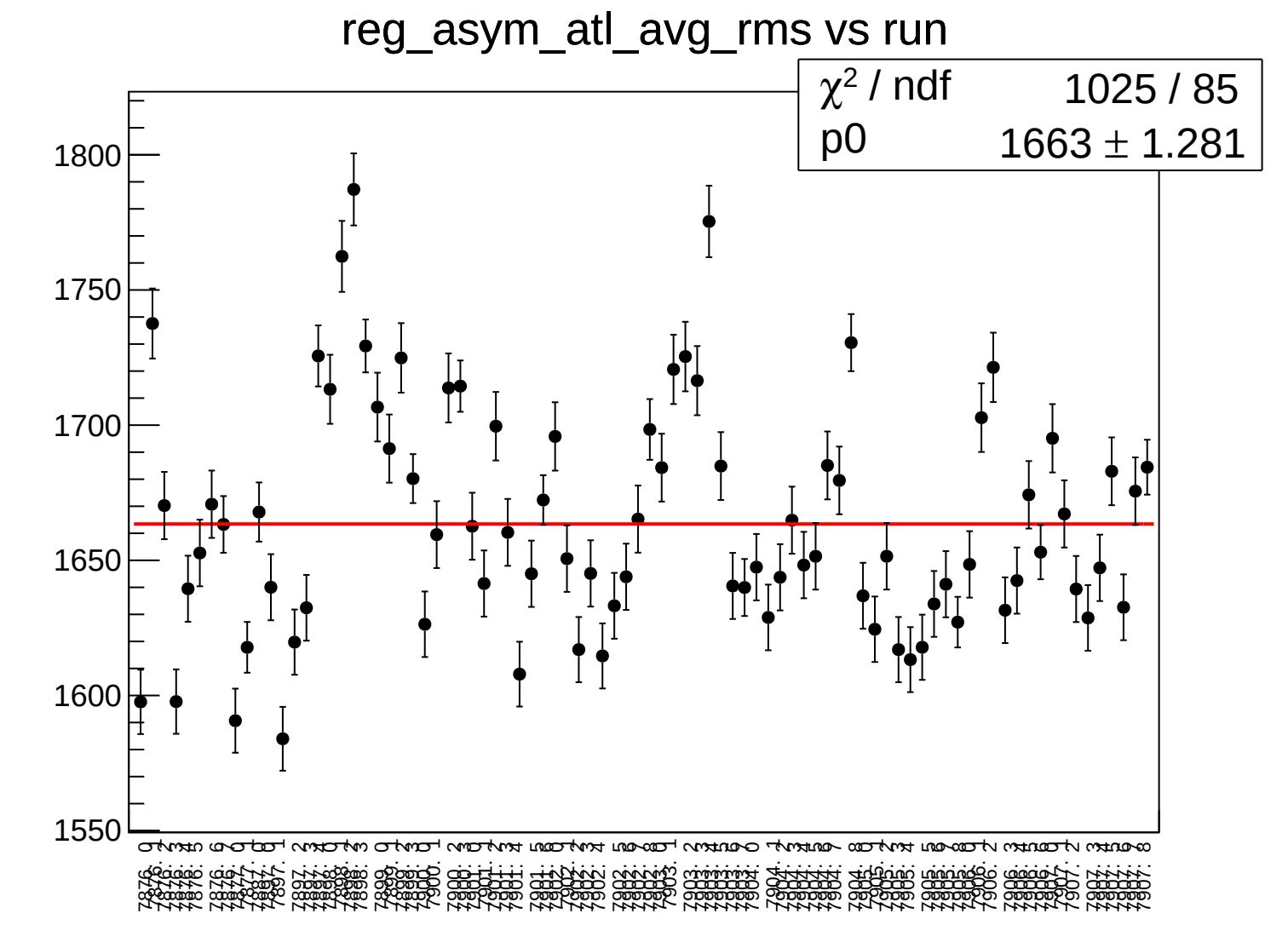

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 111.7 / 85
p0 −8.981e−14 ± 1.343e−12
pull
Entries 86
Mean 21.4
Std Dev 5.889

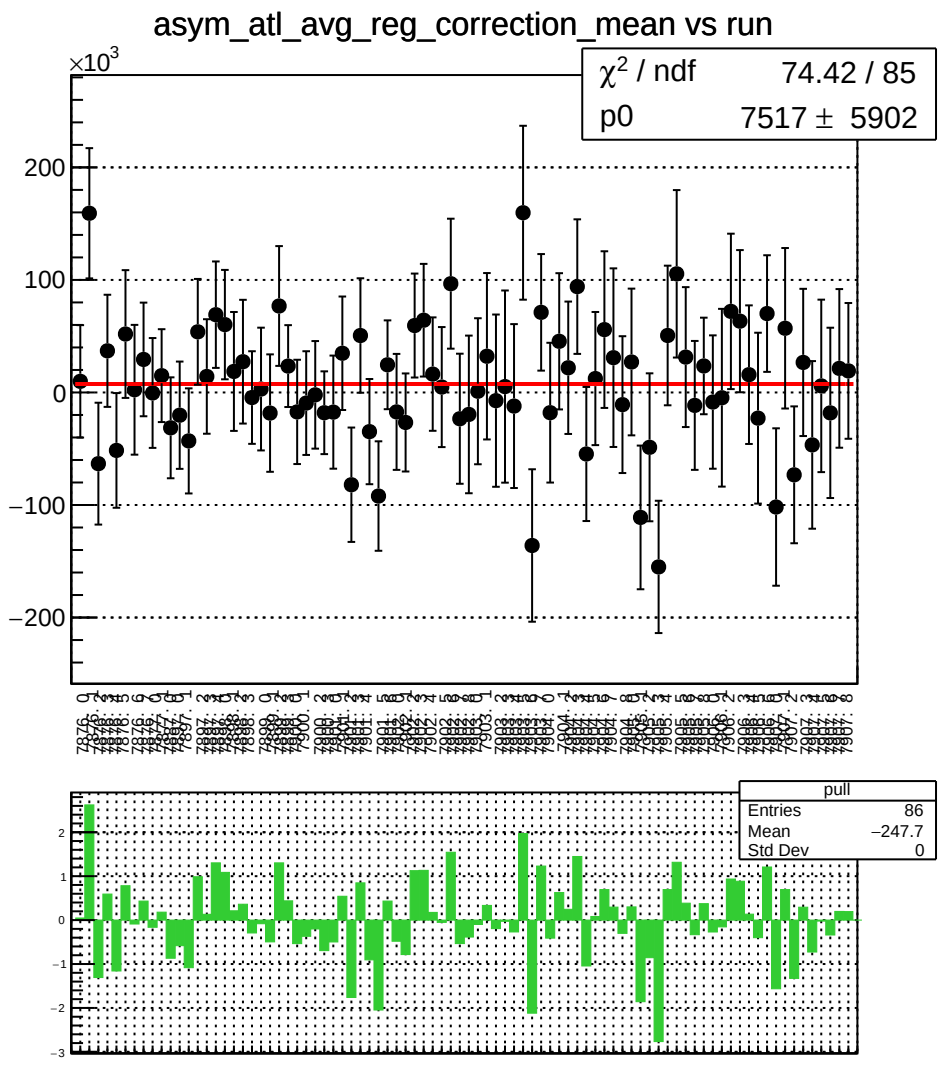

pull1D
Entries 86
Mean 0.1292
Std Dev 1.132

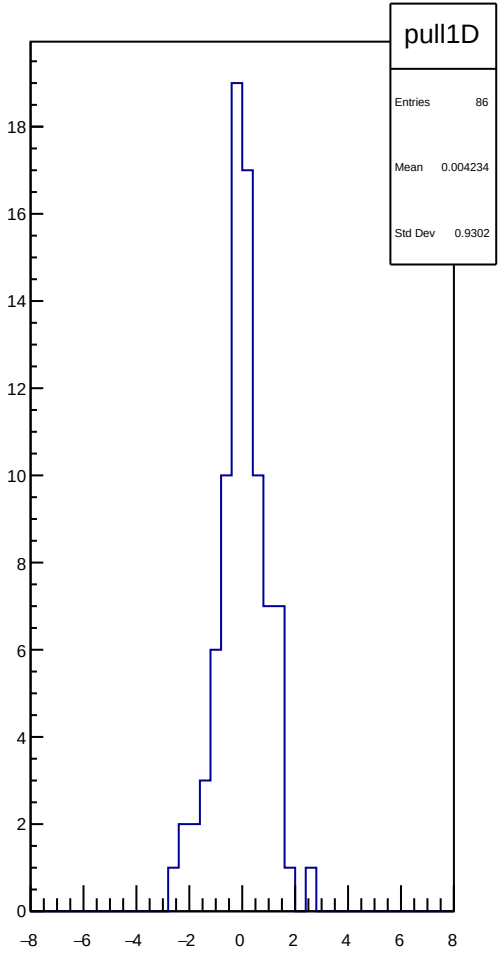

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.07e+06 / 85
p0 7.465e−10 ± 9.494e−13
9
8
7
6
5
4
3
2
1

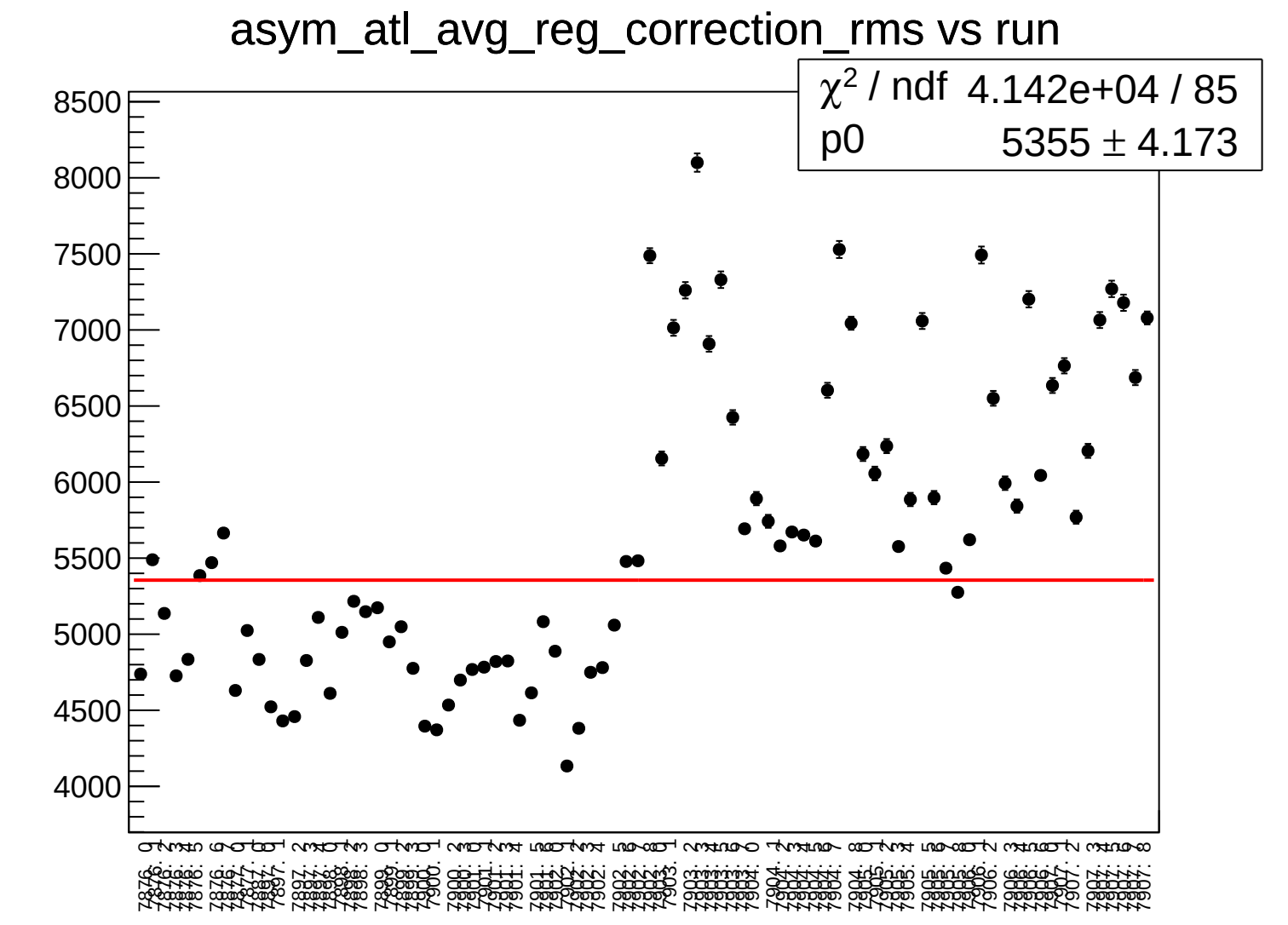

reg_asym_atl_avg_mean vs run
χ² / ndf 83.58 / 85
p0 2064 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 963.7
Std Dev 0
2
1
0
−1
−2
−3

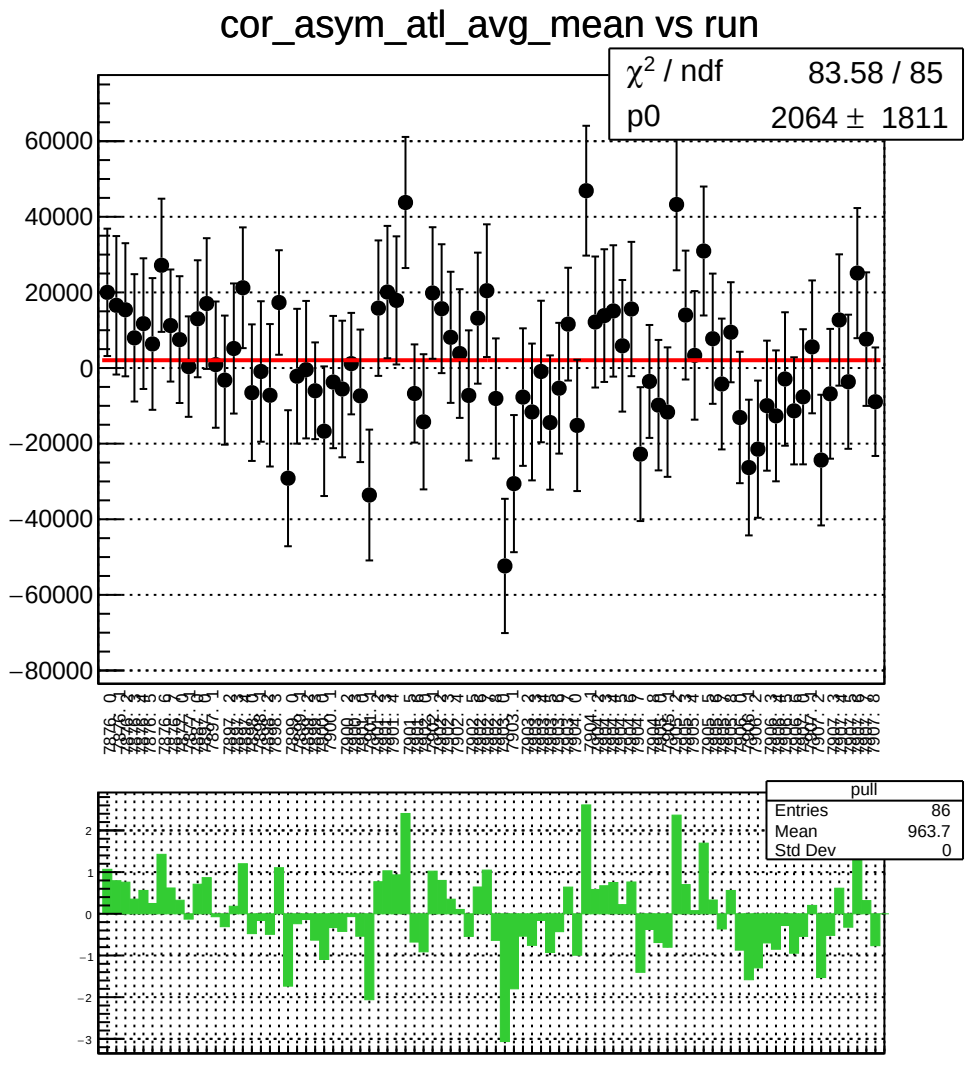

pull1D
Entries 86
Mean −0.004704
Std Dev 0.9858
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

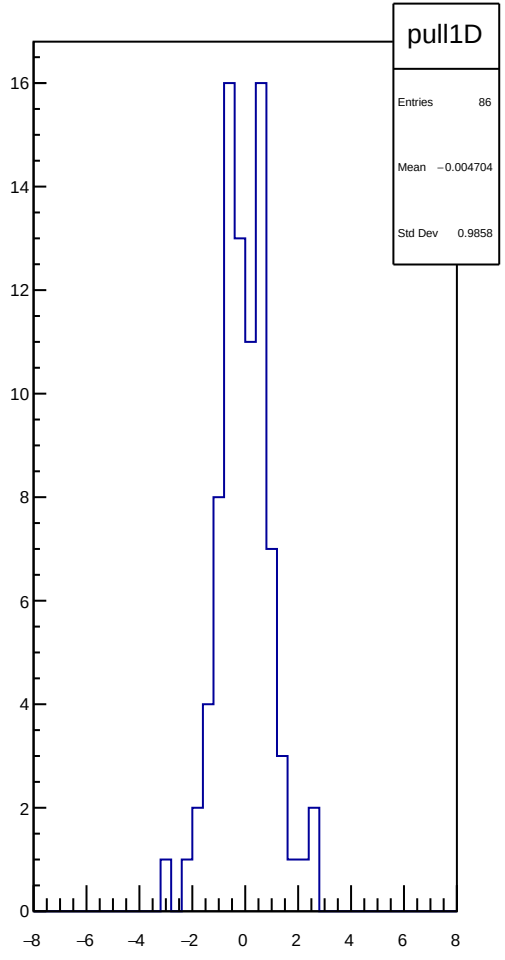

reg_asym_atl_avg_rms vs run
χ^2 / ndf 1025 / 85
p0 1663 ± 1.281
1800
1750
1700
1650
1600
1550

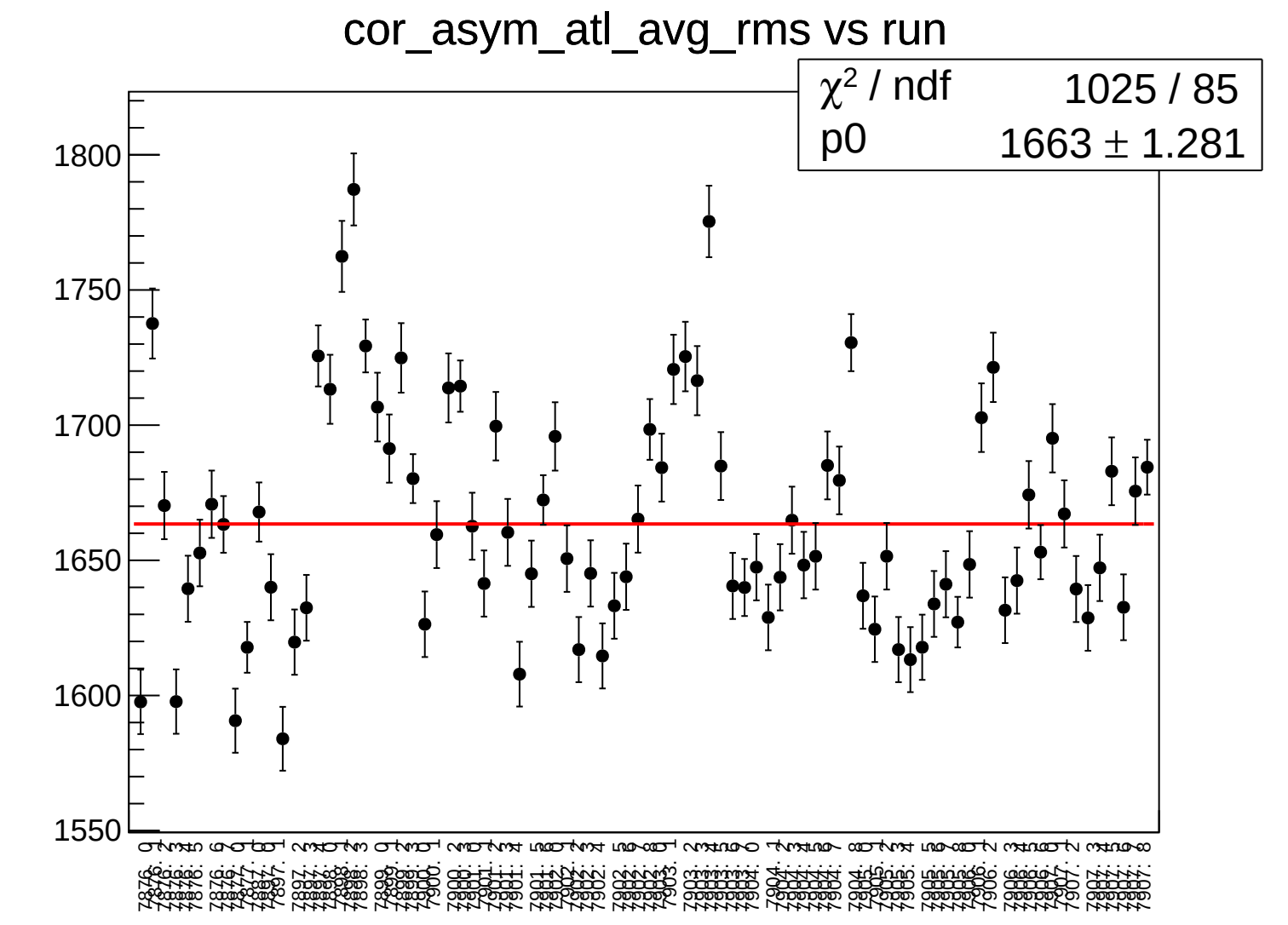

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 74.42 / 85
p0 7517 ± 5902
200
100
0
−100
−200
pull
Entries 86
Mean −247.7
Std Dev 0
2
1
0
−1
−2
−3

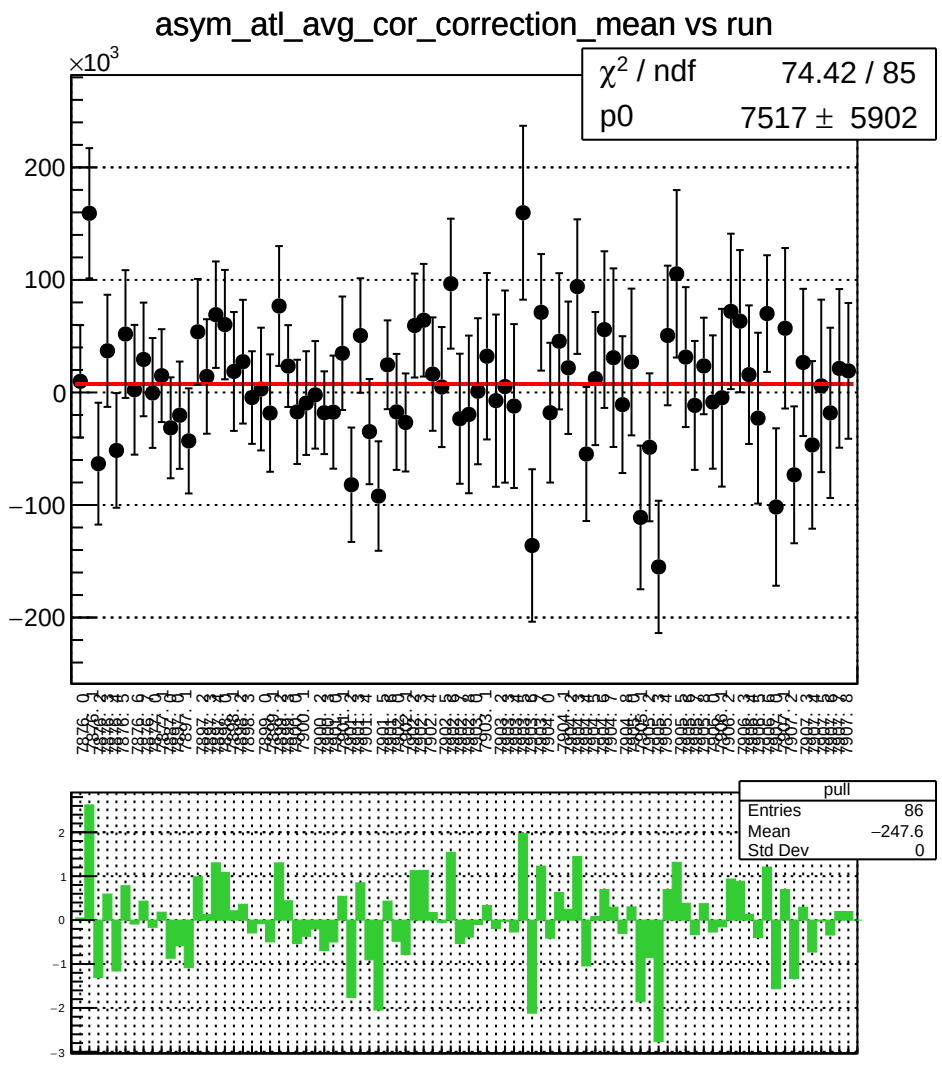

pull1D
Entries 86
Mean 0.004234
Std Dev 0.9302
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

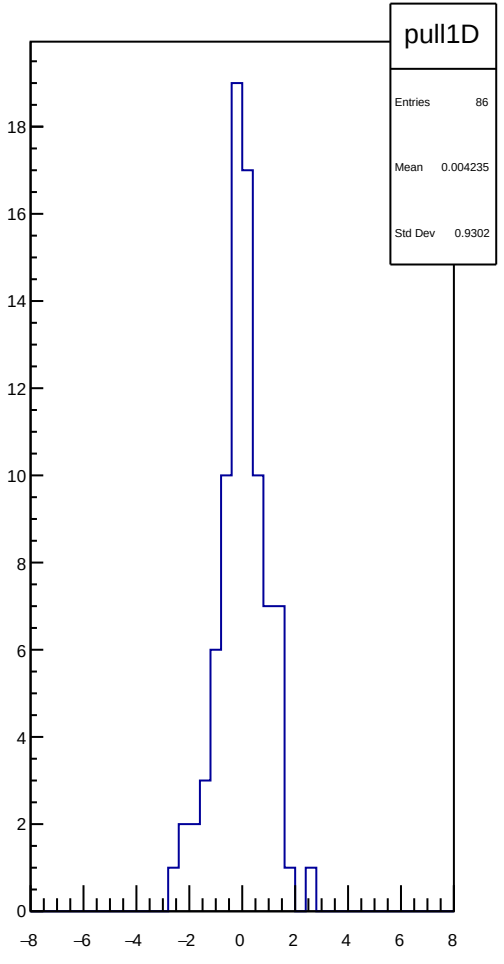

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 4.142e+04 / 85
p0 5355 ± 4.173
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000


cor_asym_atl_avg_mean vs run
χ² / ndf 83.58 / 85
p0 2064 ± 1811
pull
Entries 86
Mean 963.7
Std Dev 0


pull1D
Entries 86
Mean −0.004704
Std Dev 0.9858


cor_asym_atl_avg_rms vs run
χ^2 / ndf 1025 / 85
p0 1663 ± 1.281
1800
1750
1700
1650
1600
1550


asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 74.42 / 85
p0 7517 ± 5902
200
100
0
−100
−200
pull
Entries 86
Mean −247.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.004235
Std Dev 0.9302
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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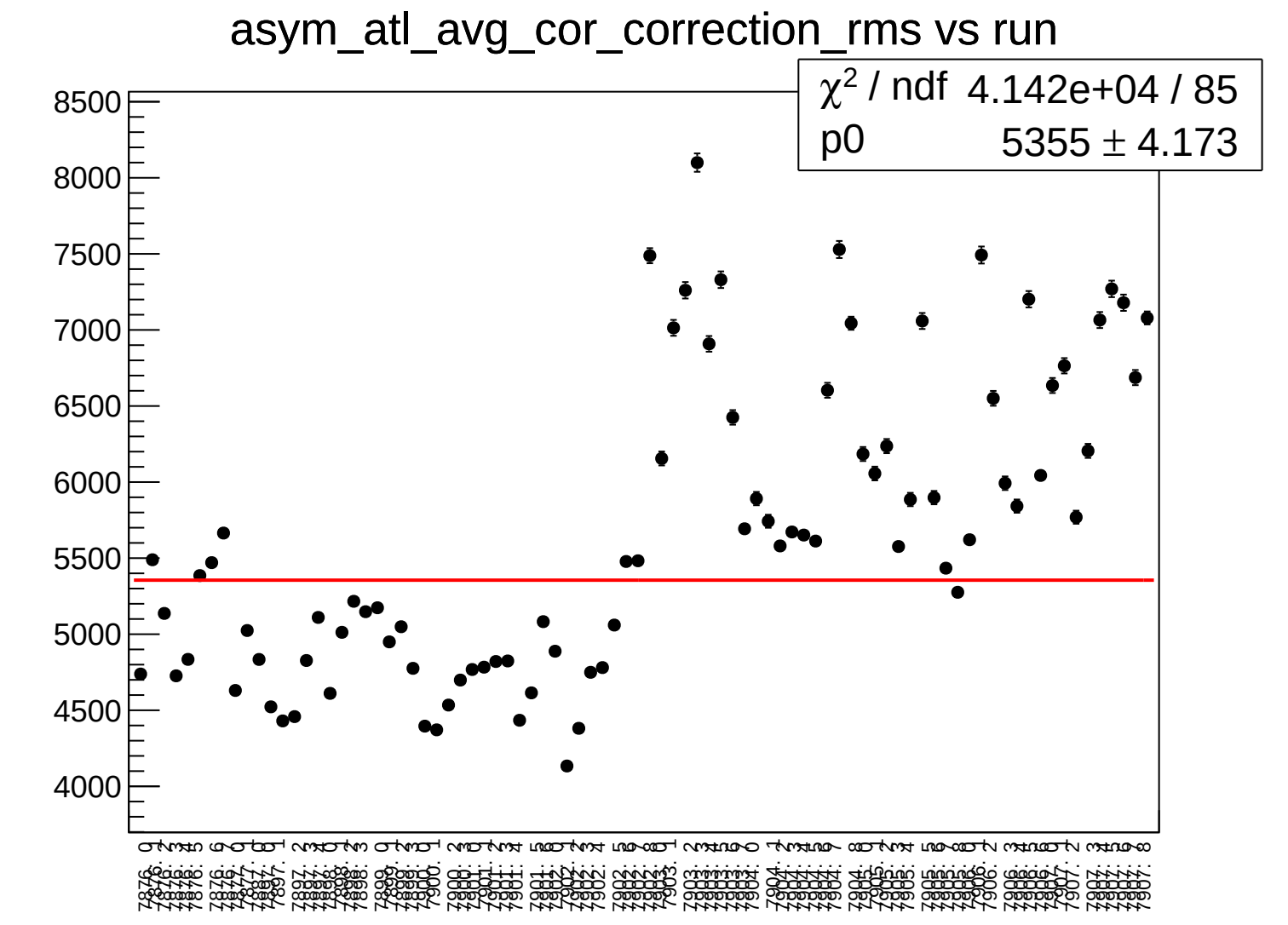
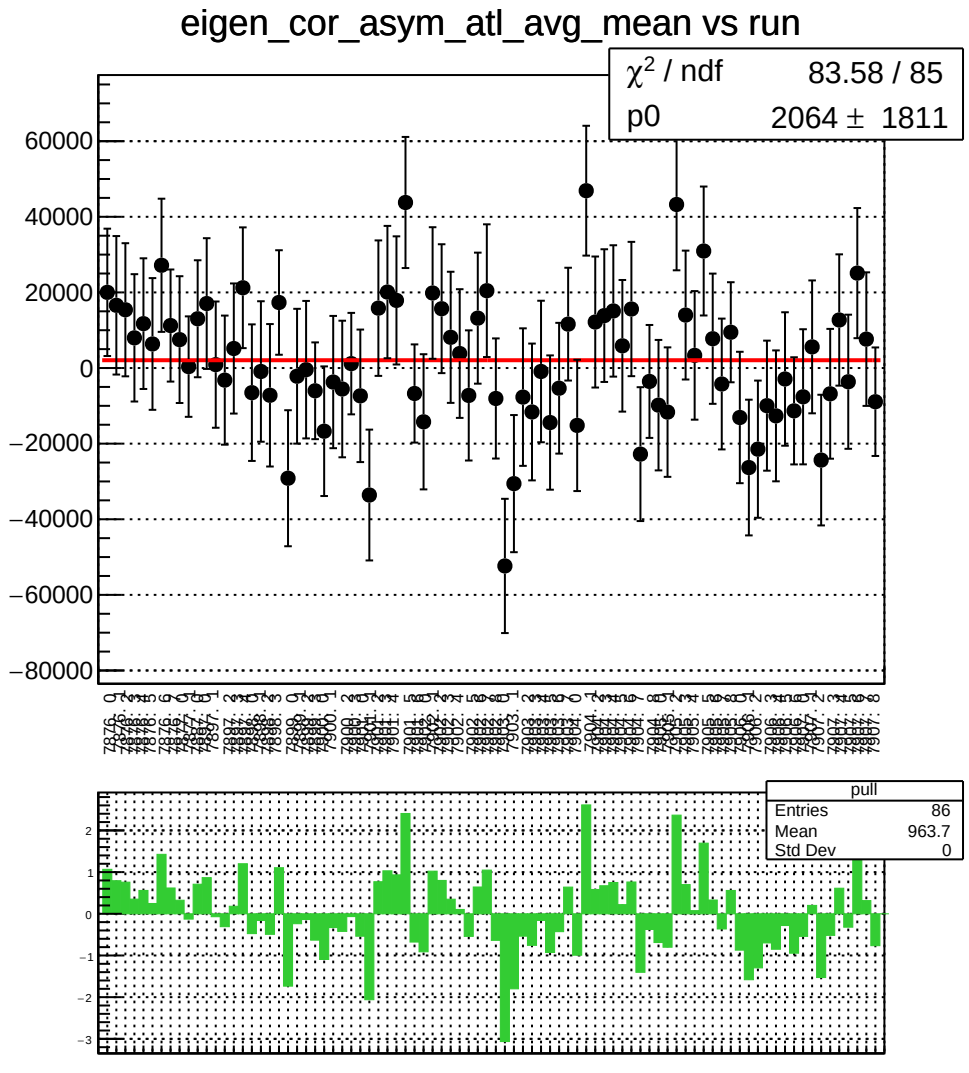
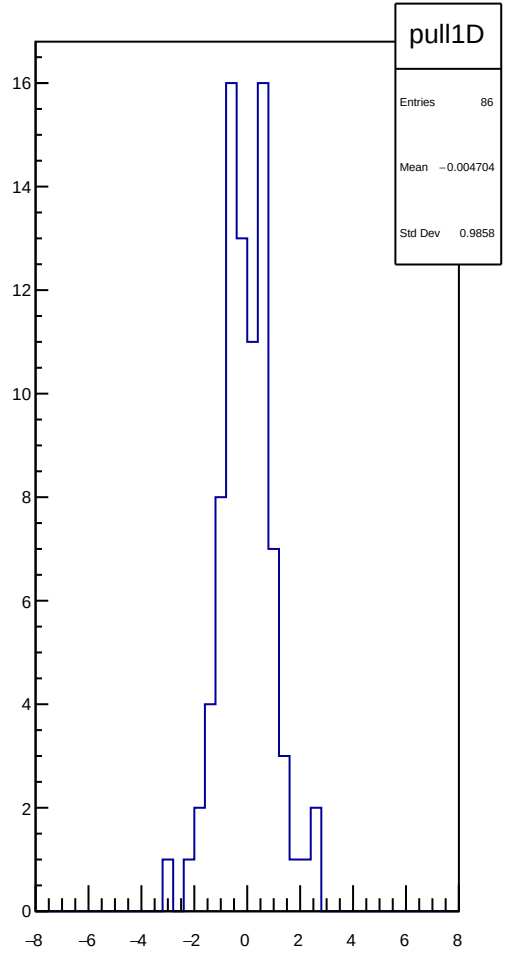
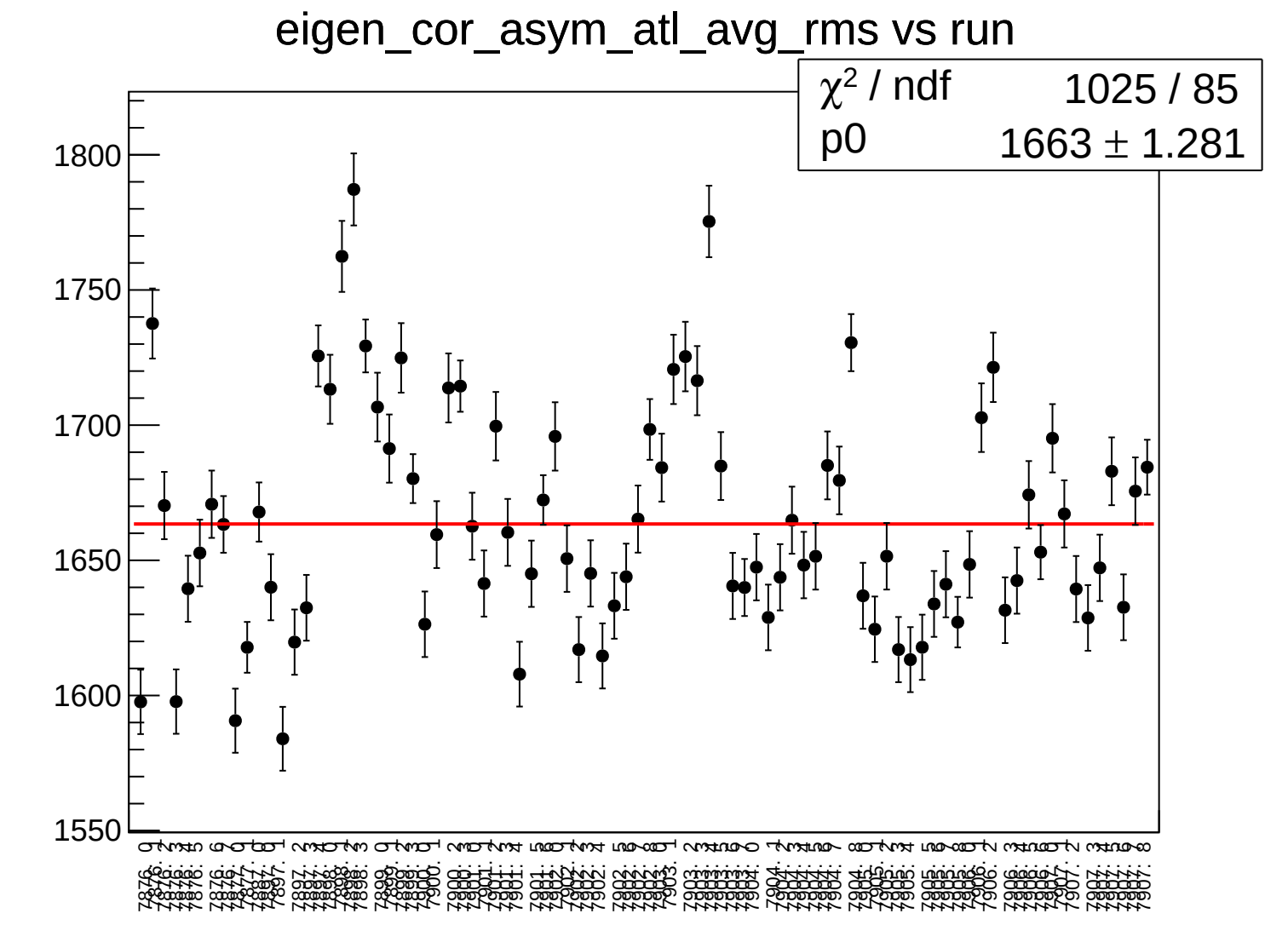
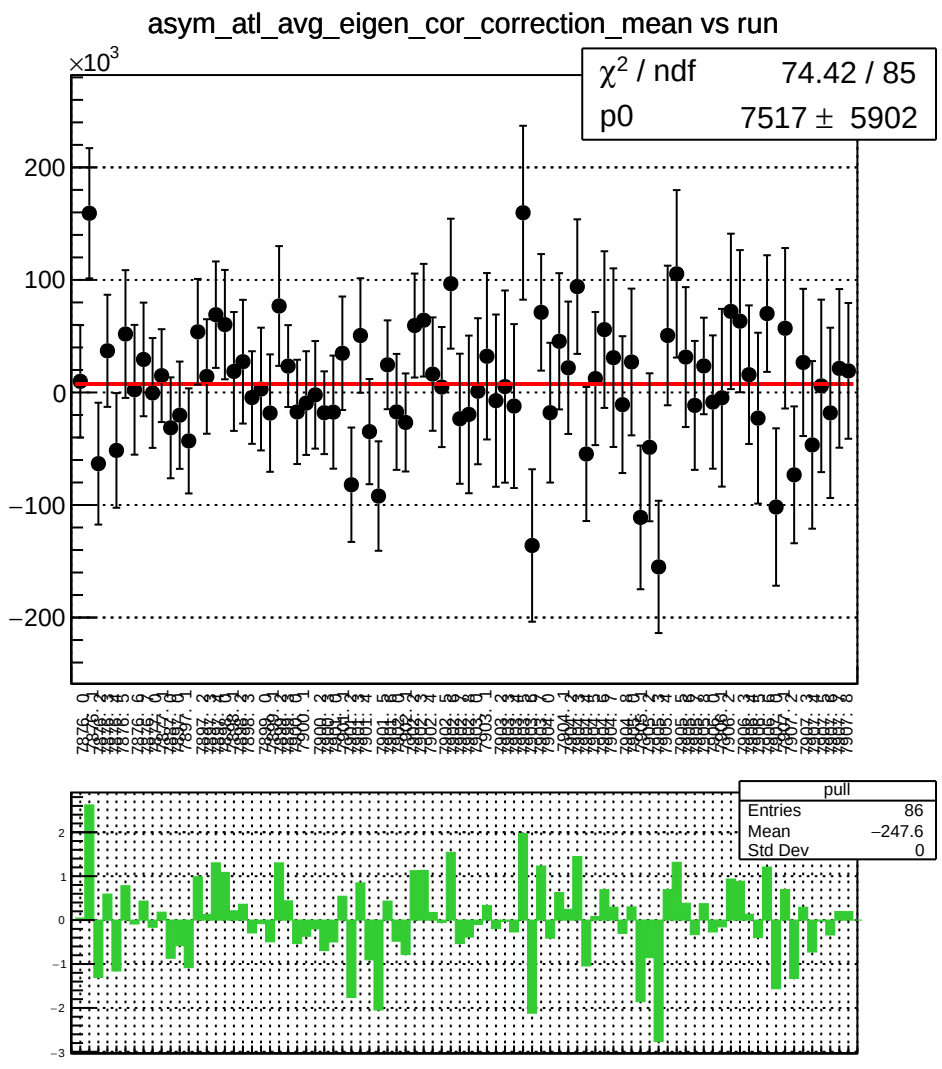
0
2
4
6
8

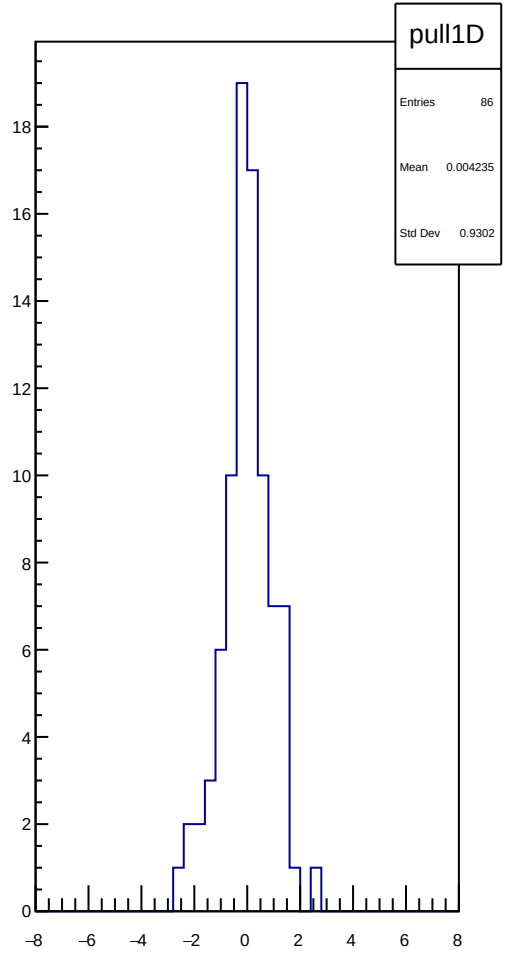

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 4.142e+04 / 85
p0 5355 ± 4.173
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000

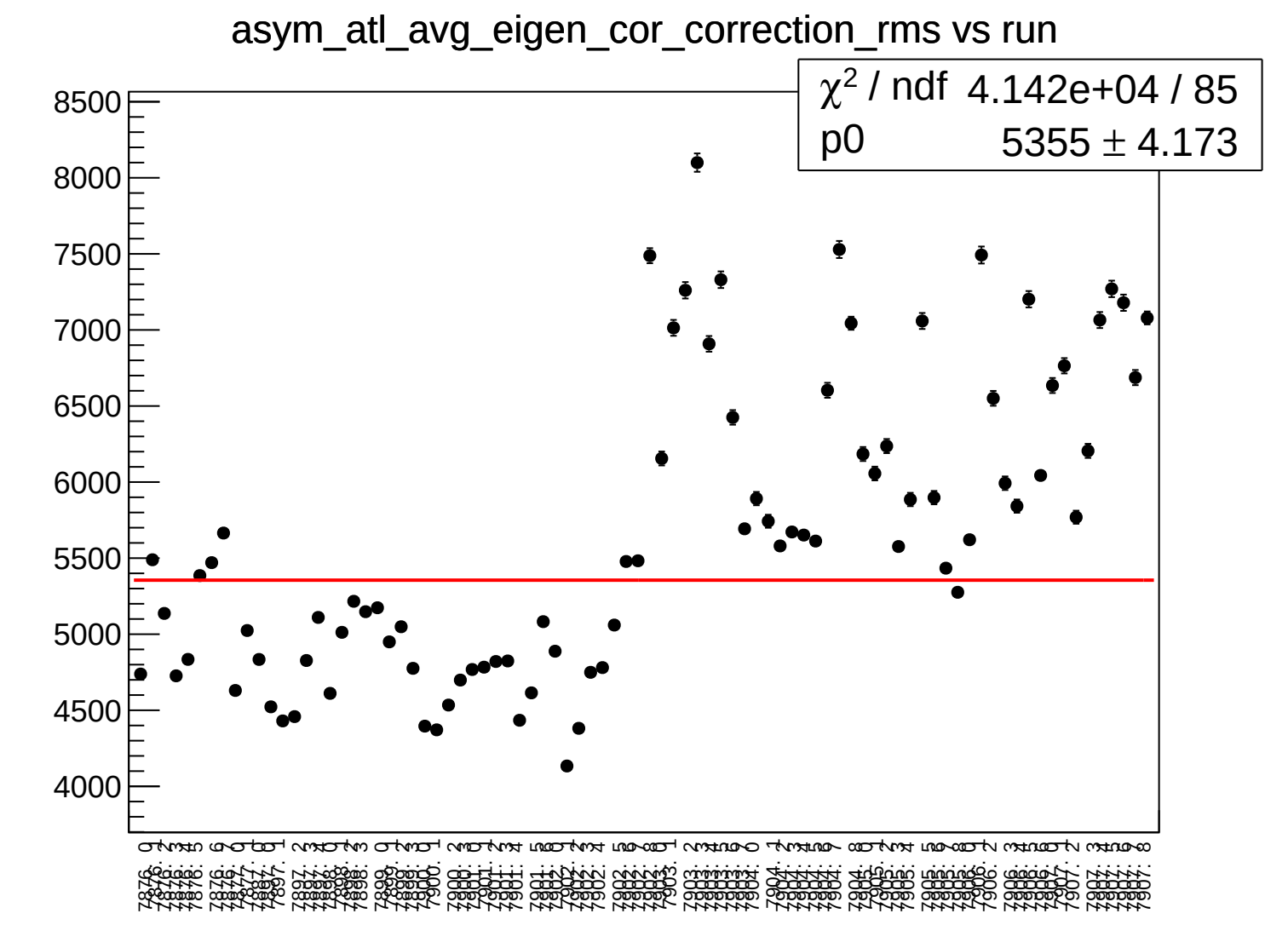

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 83.58 / 85
p0 2064 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 963.7
Std Dev 0
2
1
0
−1
−2
−3

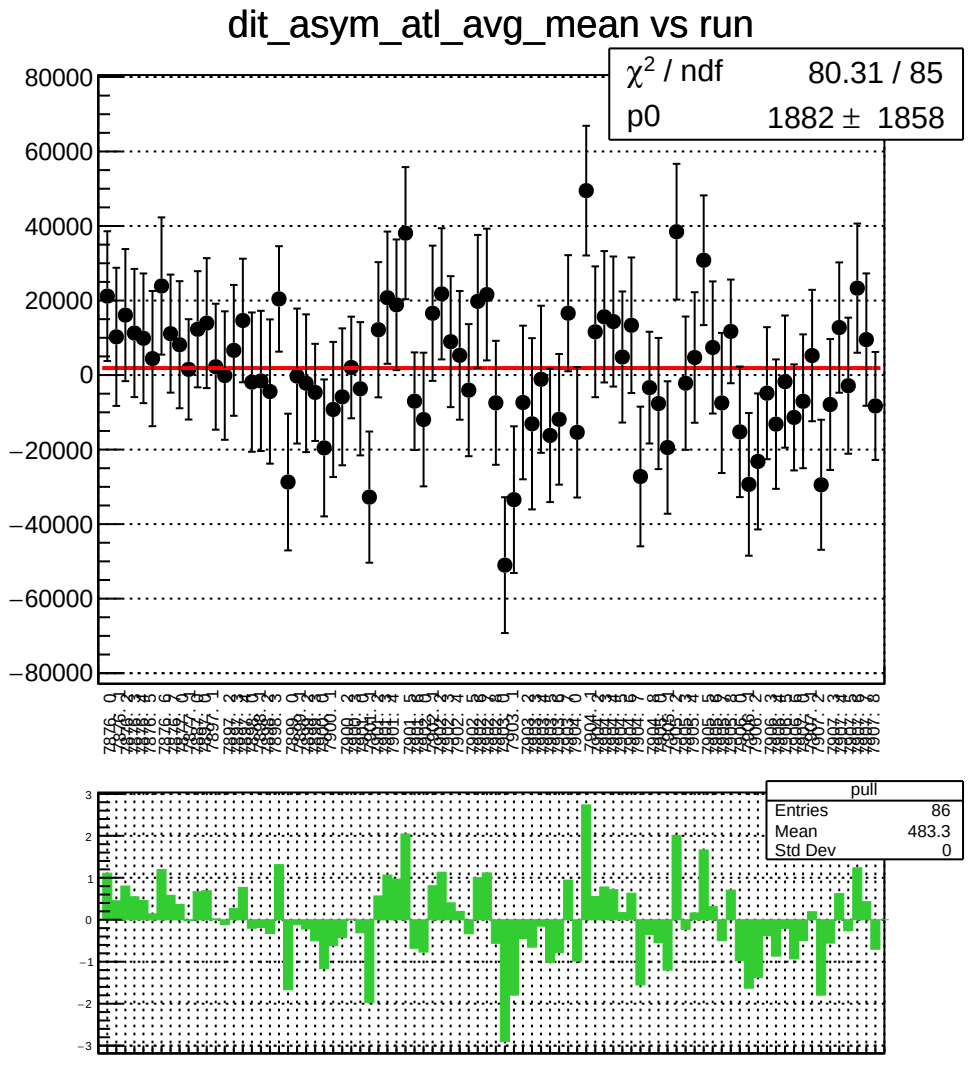

pull1D
Entries 86
Mean −0.004704
Std Dev 0.9858
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

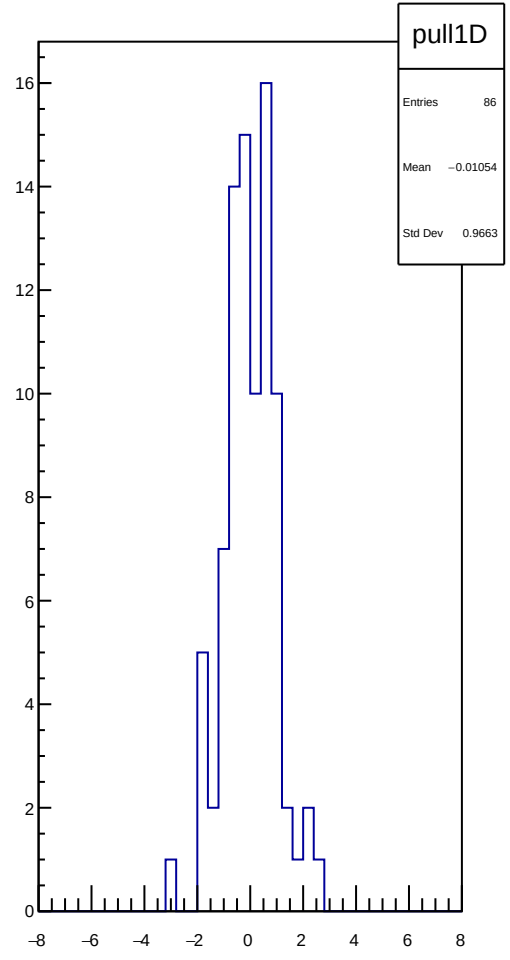

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 1025 / 85
p0 1663 ± 1.281
1800
1750
1700
1650
1600
1550

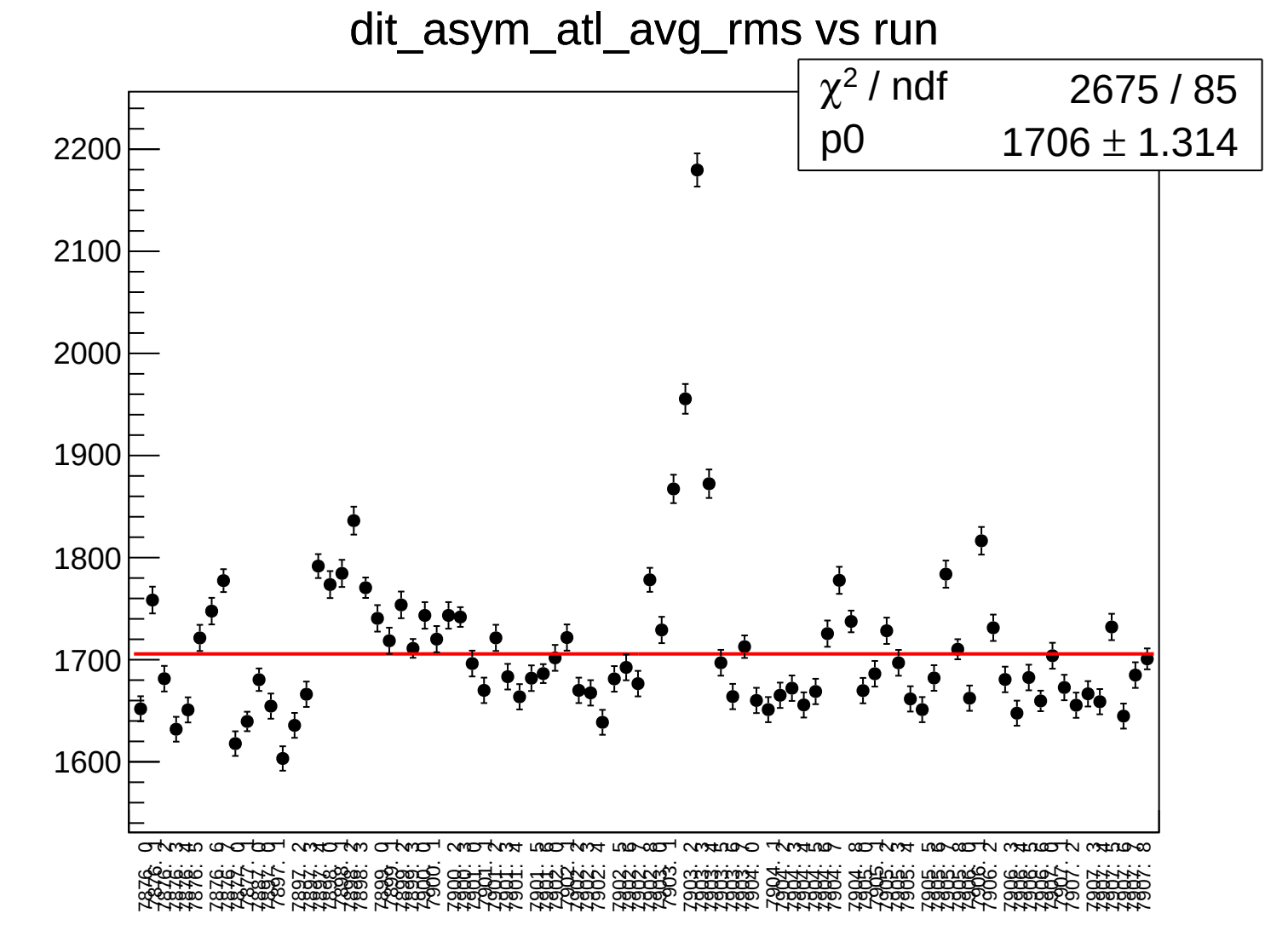

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.42 / 85
p0 7517 ± 5902
200
100
0
−100
−200
pull
Entries 86
Mean −247.6
Std Dev 0
2
1
0
−1
−2
−3

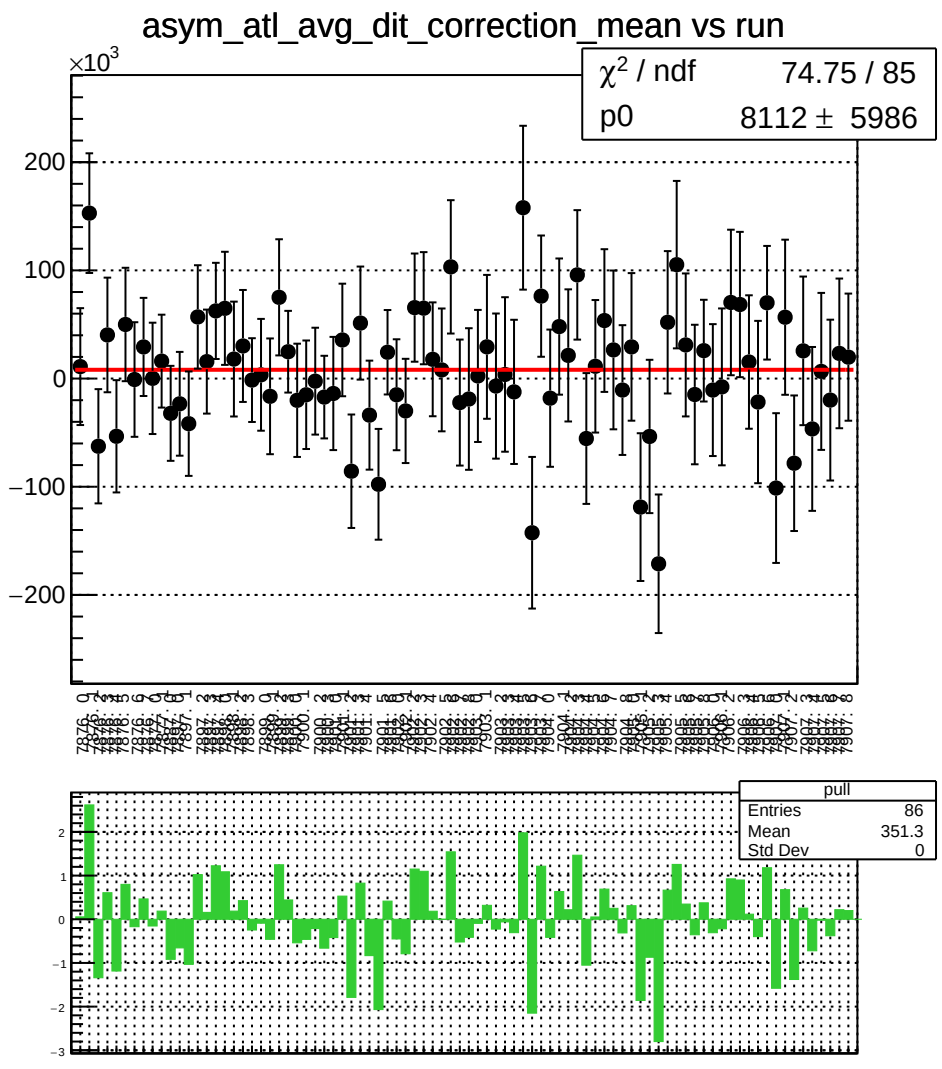

pull1D
Entries 86
Mean 0.004235
Std Dev 0.9302
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

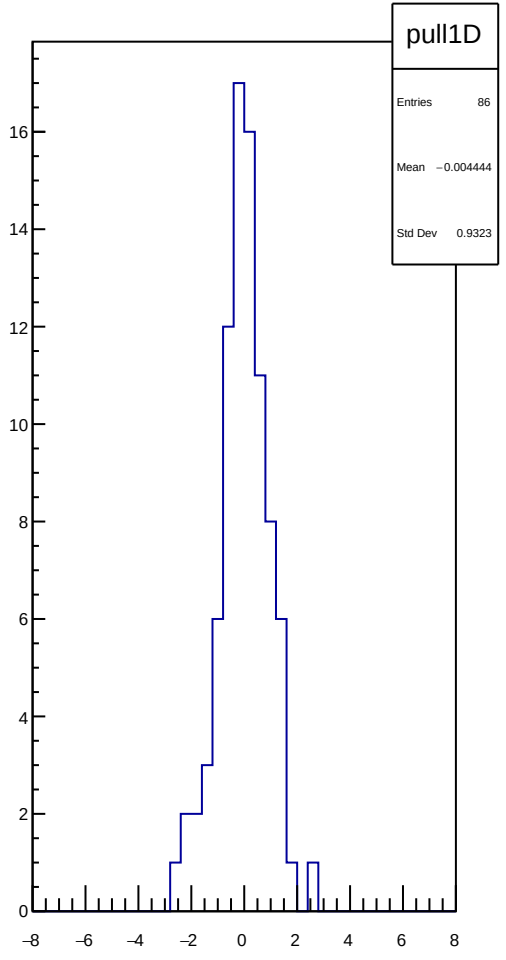

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4.142e+04 / 85
p0 5355 ± 4.173
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000

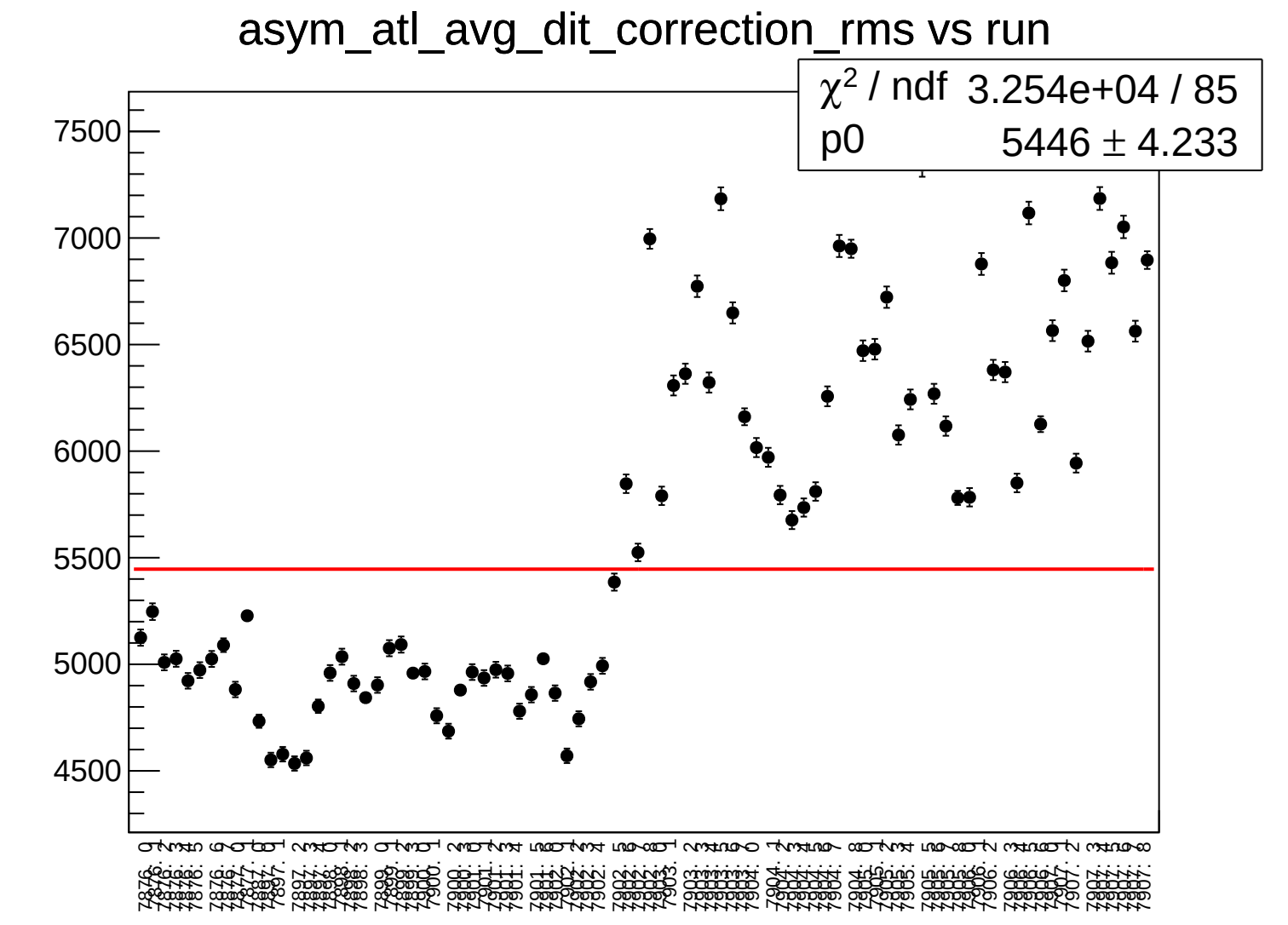

dit_asym_atl_avg_mean vs run
χ² / ndf 80.31 / 85
p0 1882 ± 1858
pull
Entries 86
Mean 483.3
Std Dev 0

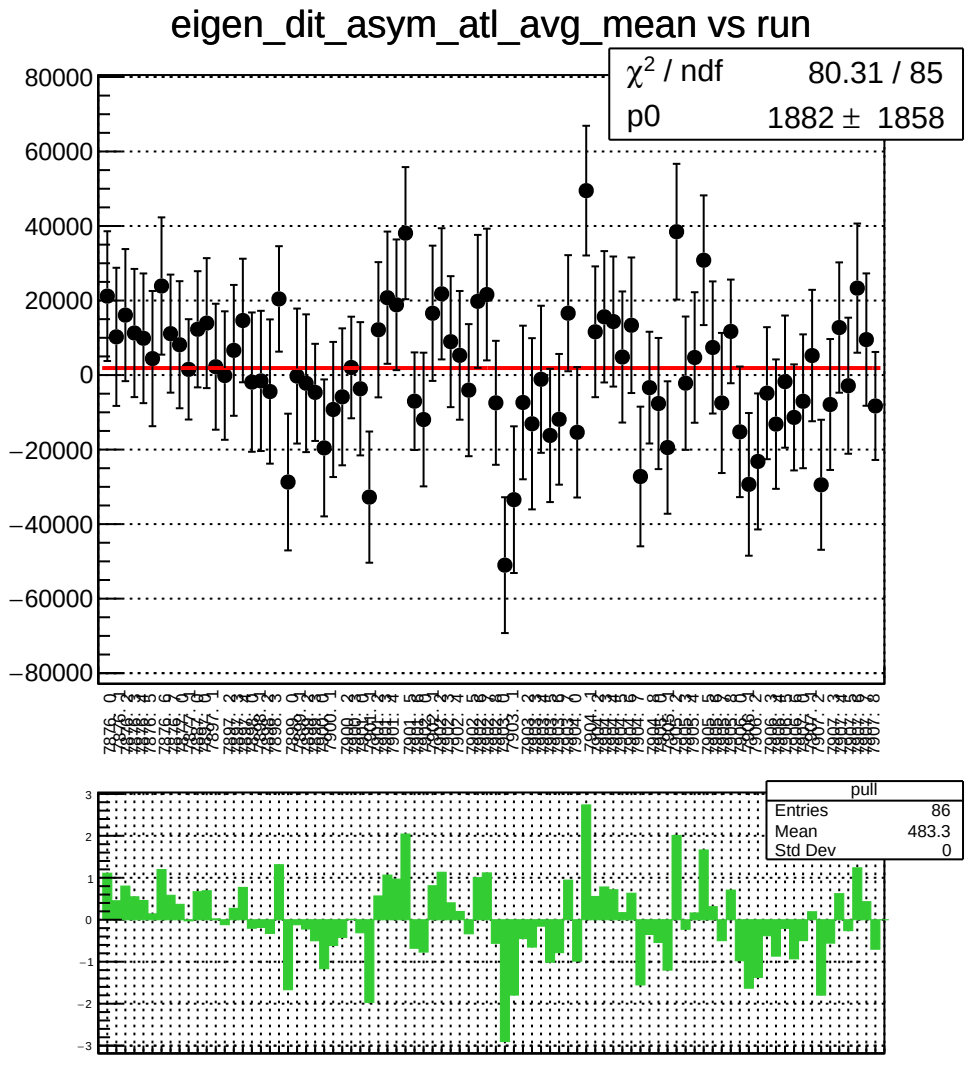

pull1D
Entries 86
Mean −0.01054
Std Dev 0.9663

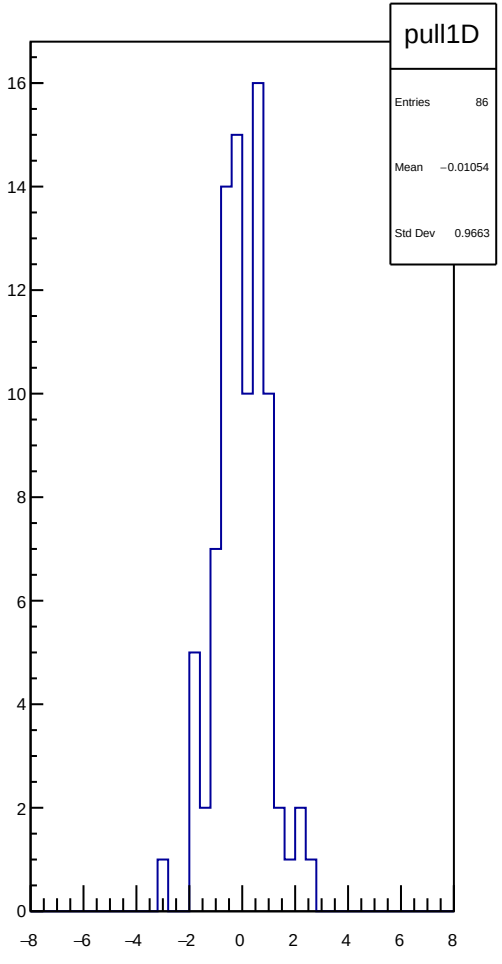

dit_asym_atl_avg_rms vs run
χ² / ndf 2675 / 85
p0 1706 ± 1.314
2200
2100
2000
1900
1800
1700
1600

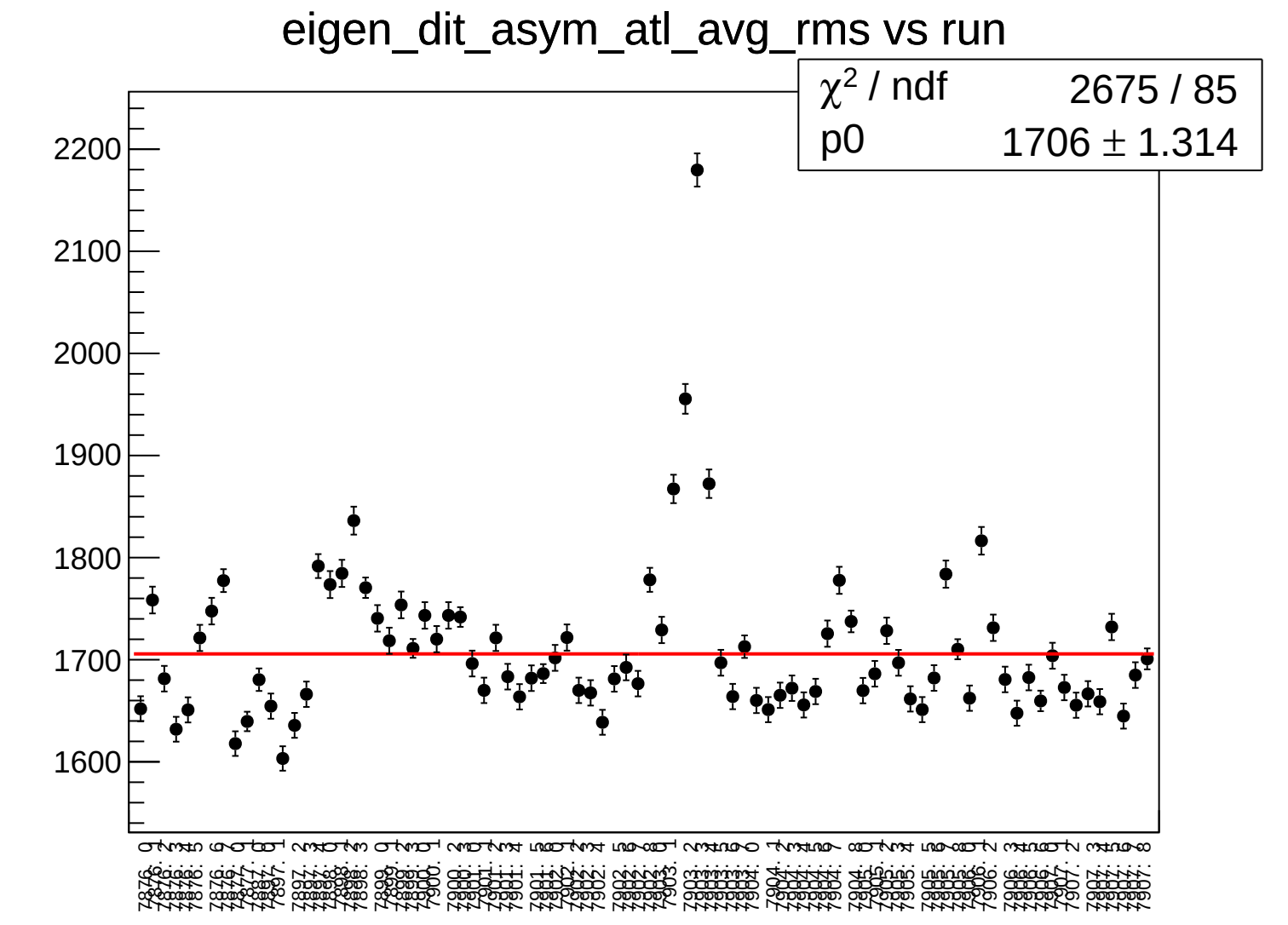

asym_atl_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 74.75 / 85
p0 8112 ± 5986
200
100
0
−100
−200
pull
Entries 86
Mean 351.3
Std Dev 0
2
1
0
−1
−2
−3

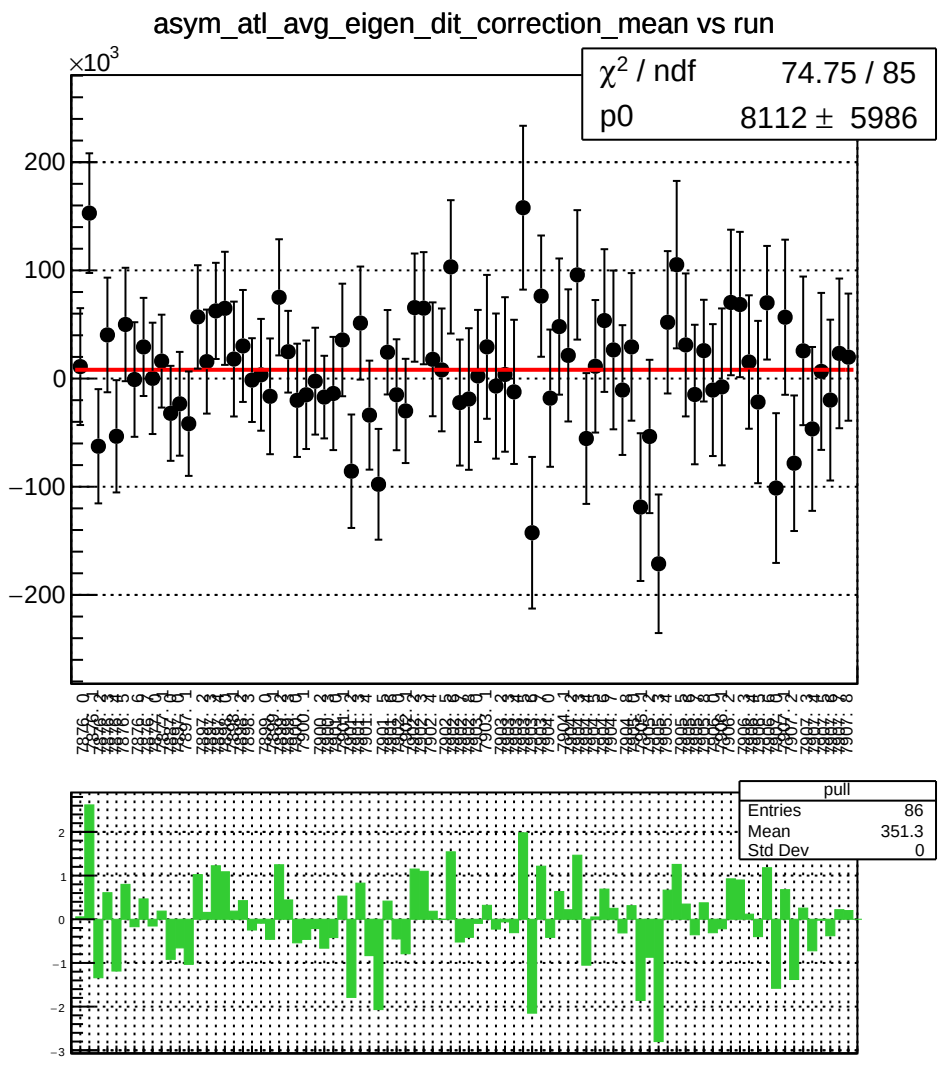

pull1D
Entries 86
Mean −0.004444
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

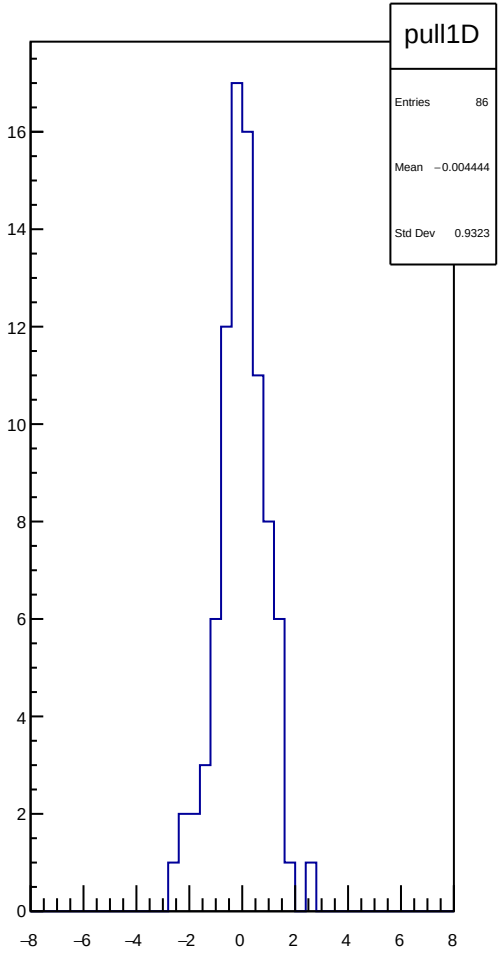

asym_atl_avg_dit_correction_rms vs run
χ^2 / ndf 3.254e+04 / 85
p0 5446 ± 4.233
7500
7000
6500
6000
5500
5000
4500

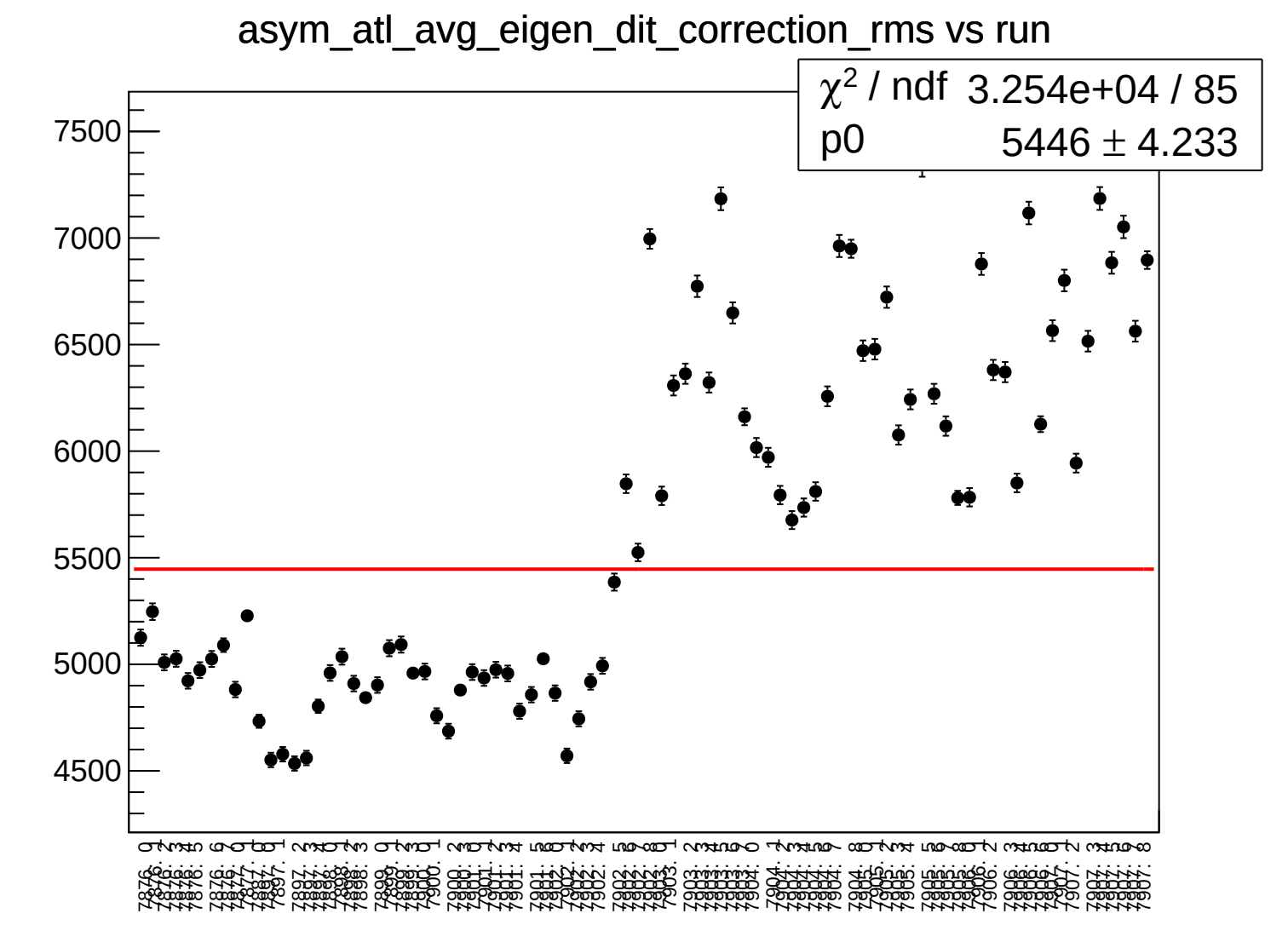

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 80.31 / 85
p0 1882 ± 1858
pull
Entries 86
Mean 483.3
Std Dev 0

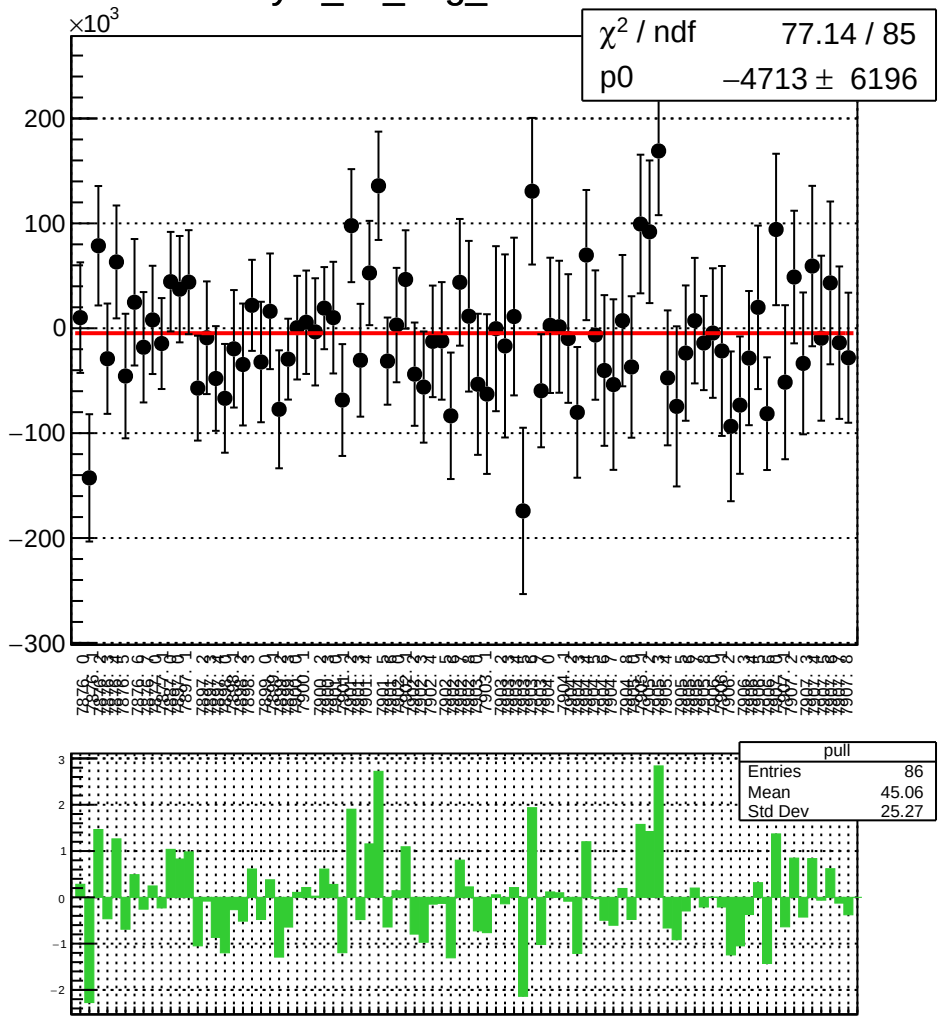

pull1D
Entries 86
Mean −0.01054
Std Dev 0.9663

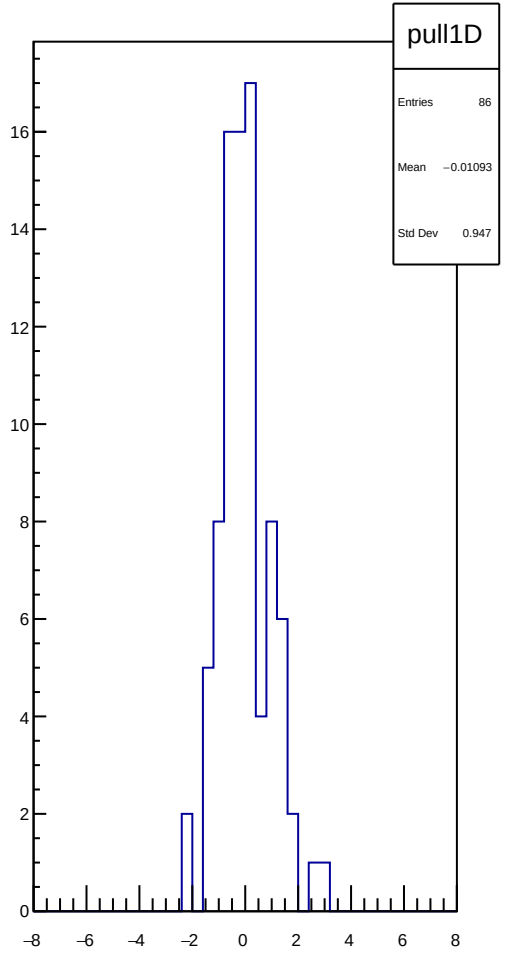

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 2675 / 85
p0 1706 ± 1.314
2200
2100
2000
1900
1800
1700
1600

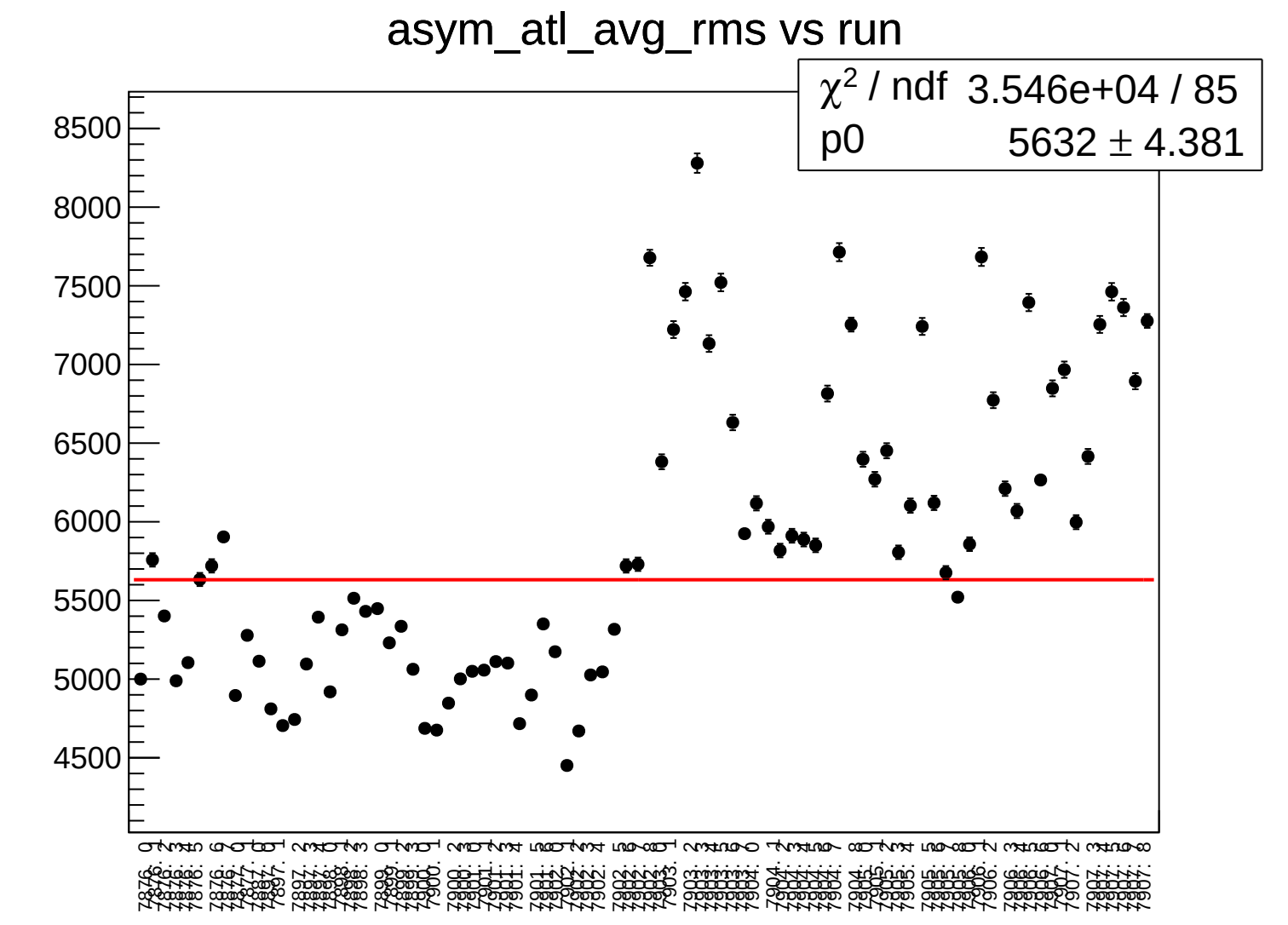

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.75 / 85
p0 8112 ± 5986
200
100
0
−100
−200
pull
Entries 86
Mean 351.3
Std Dev 0
2
1
0
−1
−2
−3

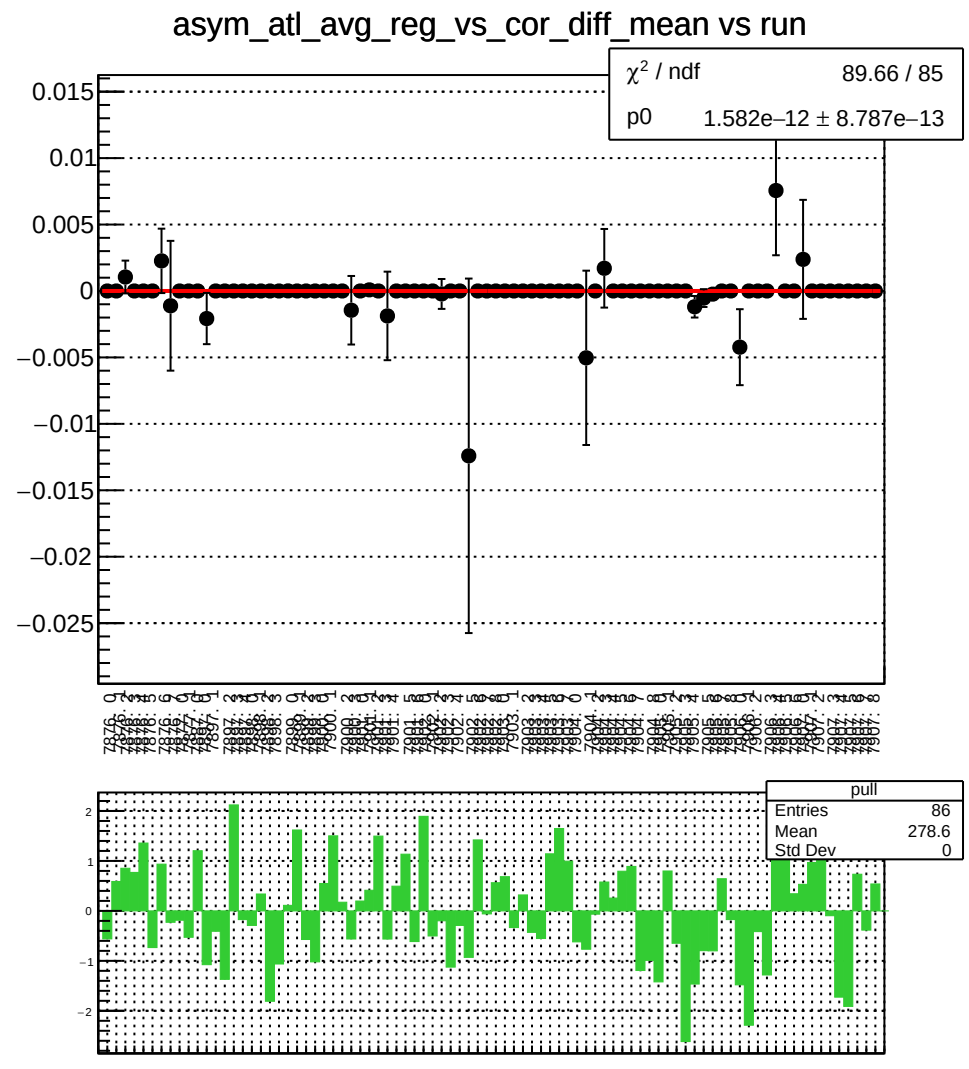

pull1D
Entries 86
Mean −0.004444
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

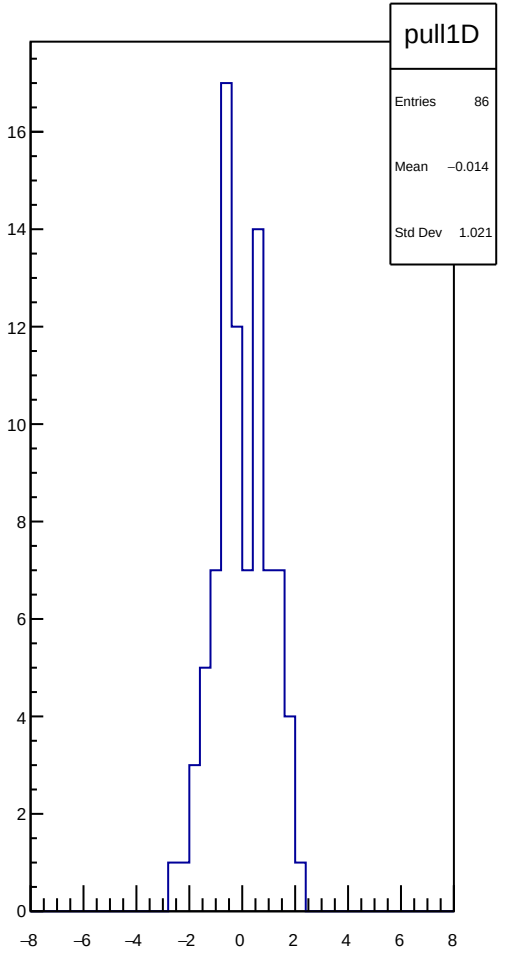

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.254e+04 / 85
p0 5446 ± 4.233
7500
7000
6500
6000
5500
5000
4500

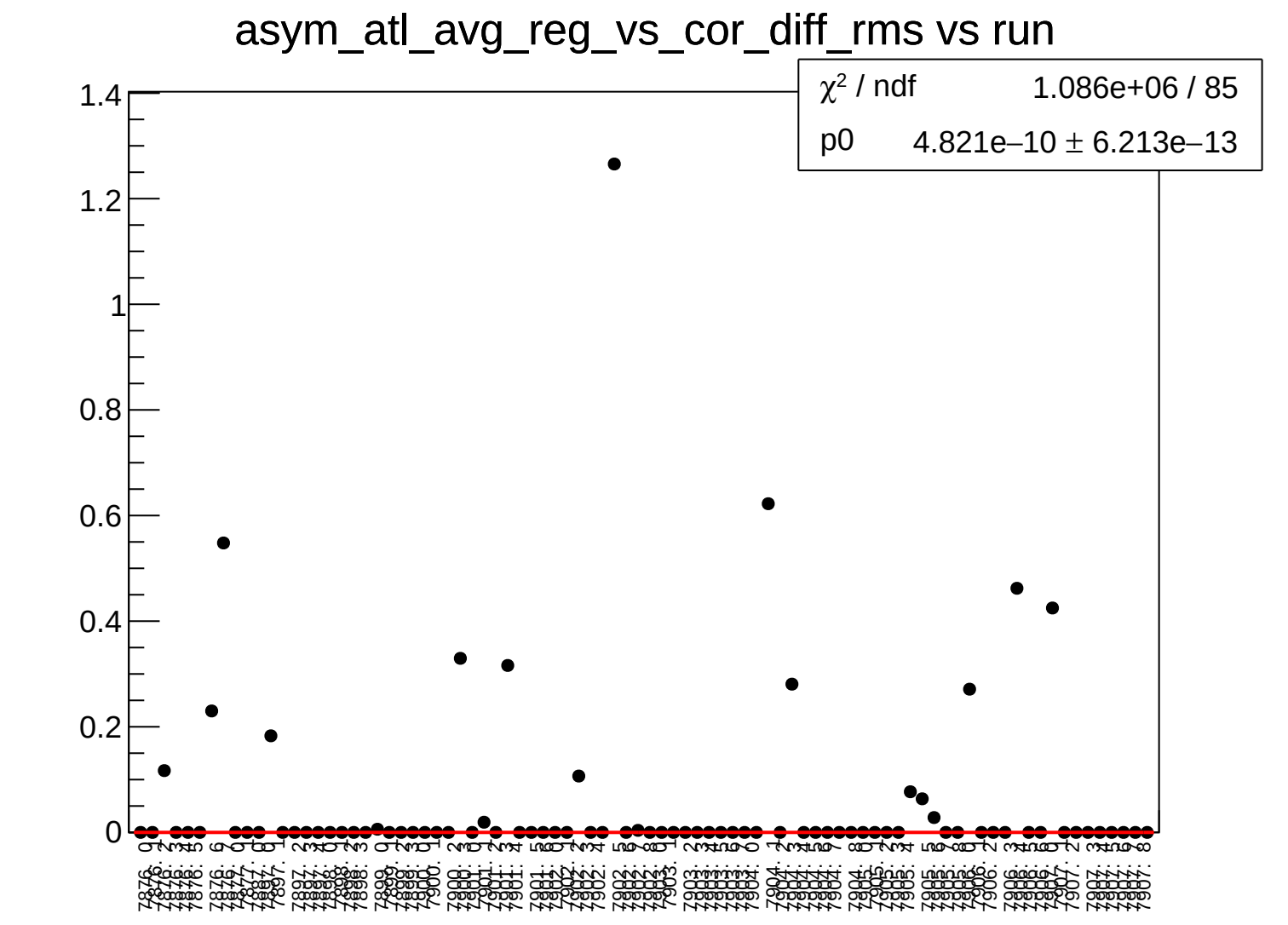

asym_atl_avg_mean vs run
×10^3
χ² / ndf 77.14 / 85
p0 −4713 ± 6196
200
100
0
−100
−200
−300
pull
Entries 86
Mean 45.06
Std Dev 25.27
3
2
1
0
−1
−2

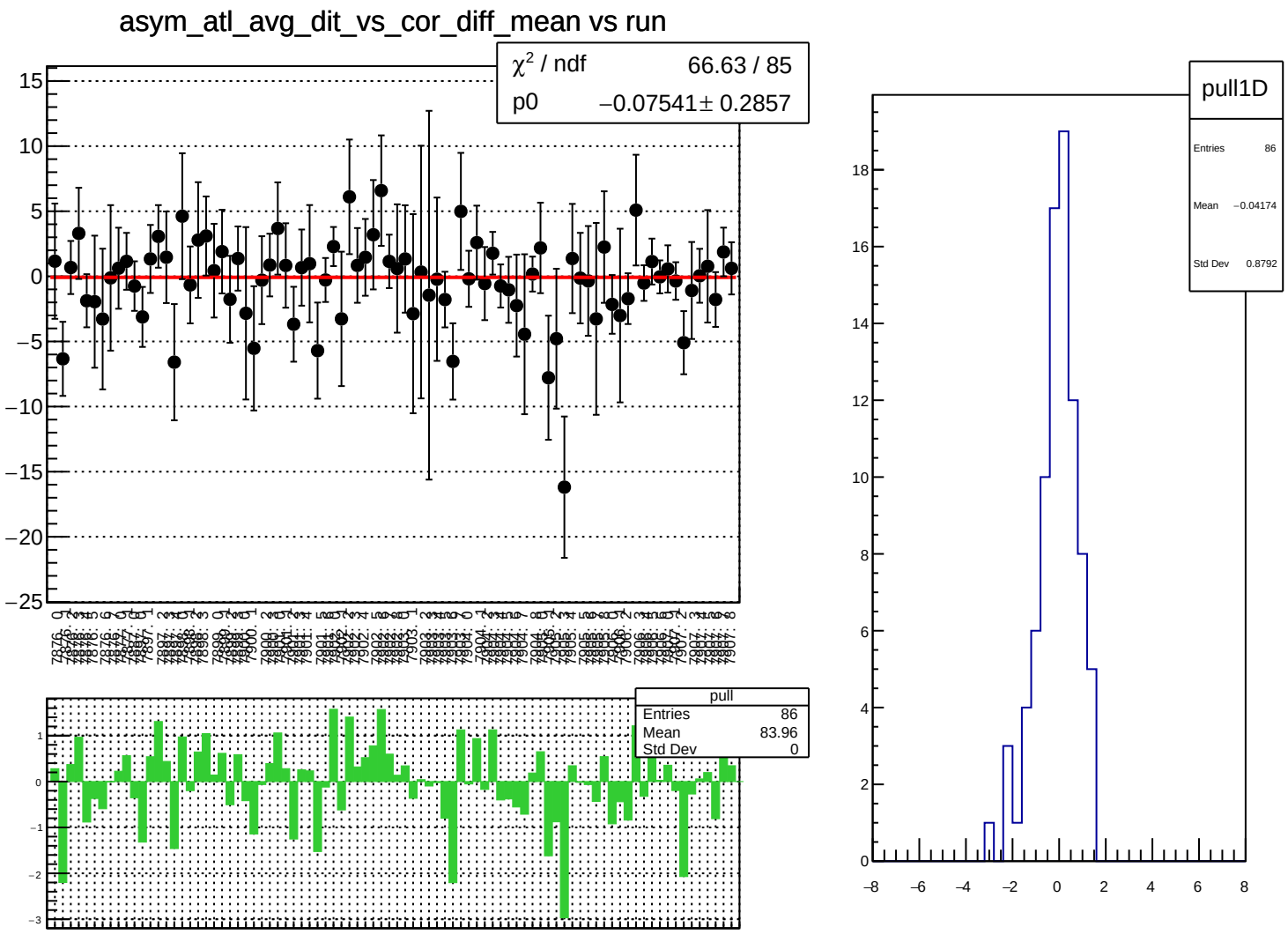

pull1D
Entries 86
Mean −0.01093
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

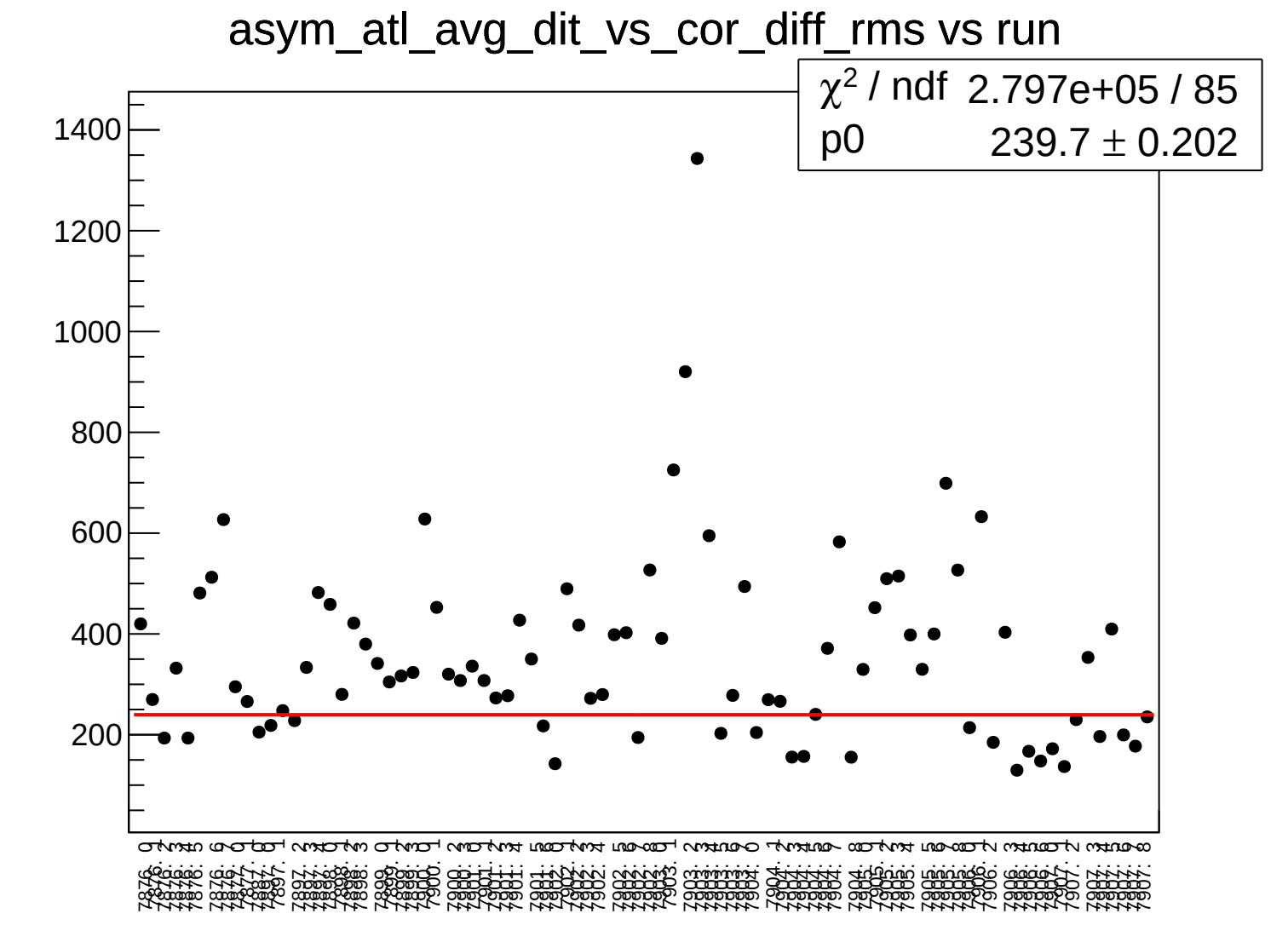

asym_atl_avg_rms vs run
χ^2 / ndf 3.546e+04 / 85
p0 5632 ± 4.381
8500
8000
7500
7000
6500
6000
5500
5000
4500

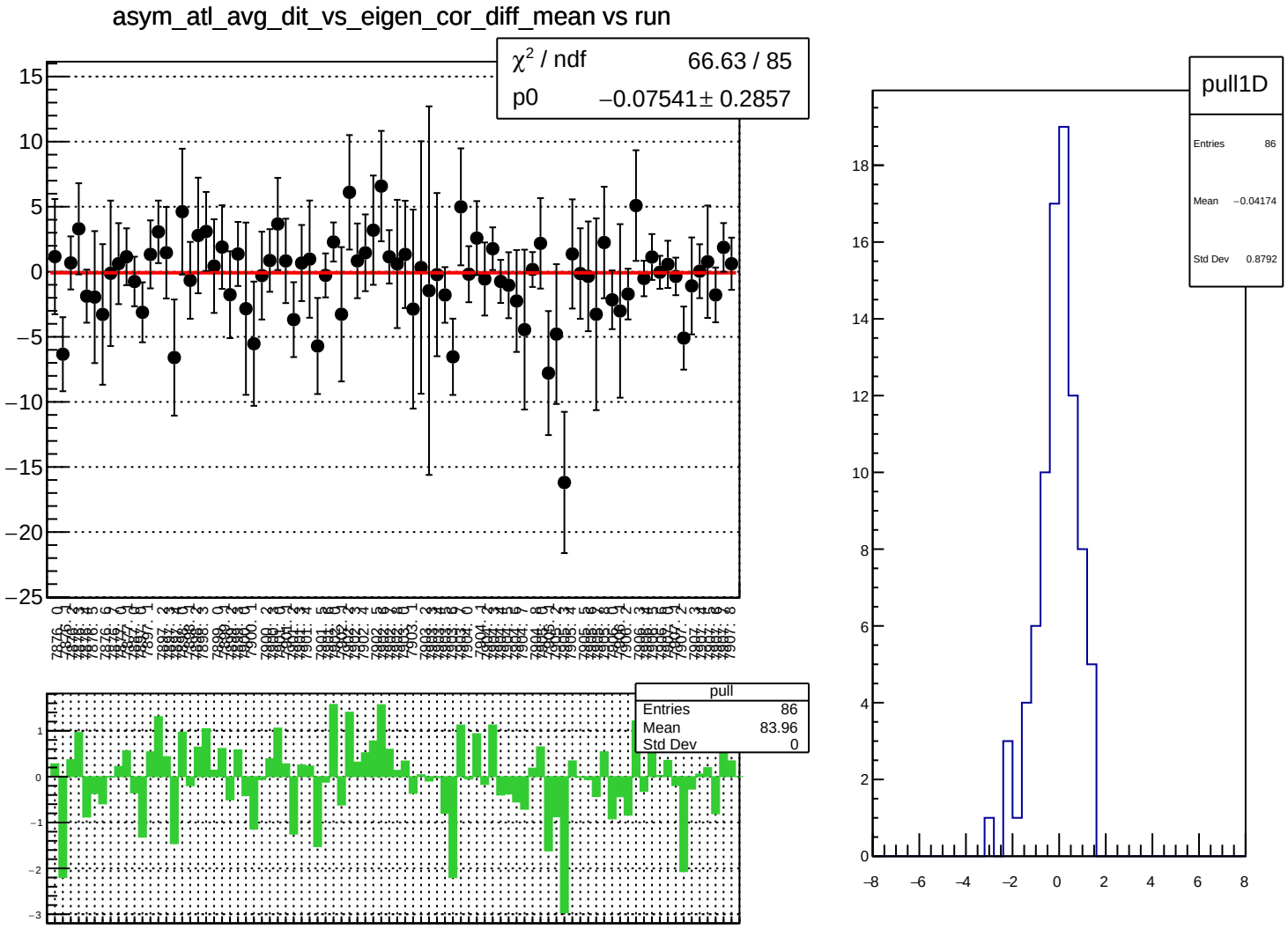

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.66 / 85
p0 1.582e−12 ± 8.787e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 86
Mean 278.6
Std Dev 0
2
1
0
−1
−2

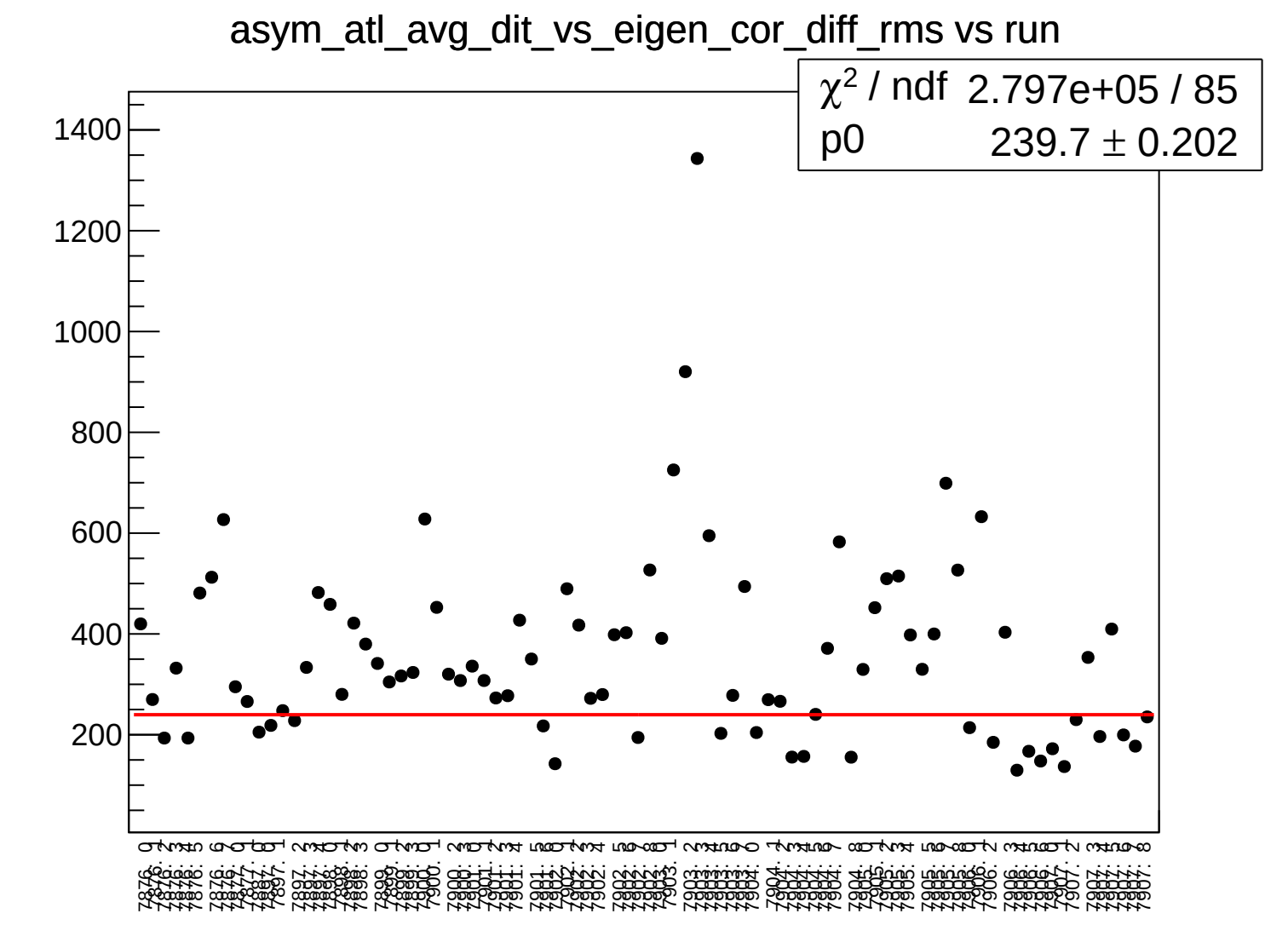

pull1D
Entries 86
Mean −0.014
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

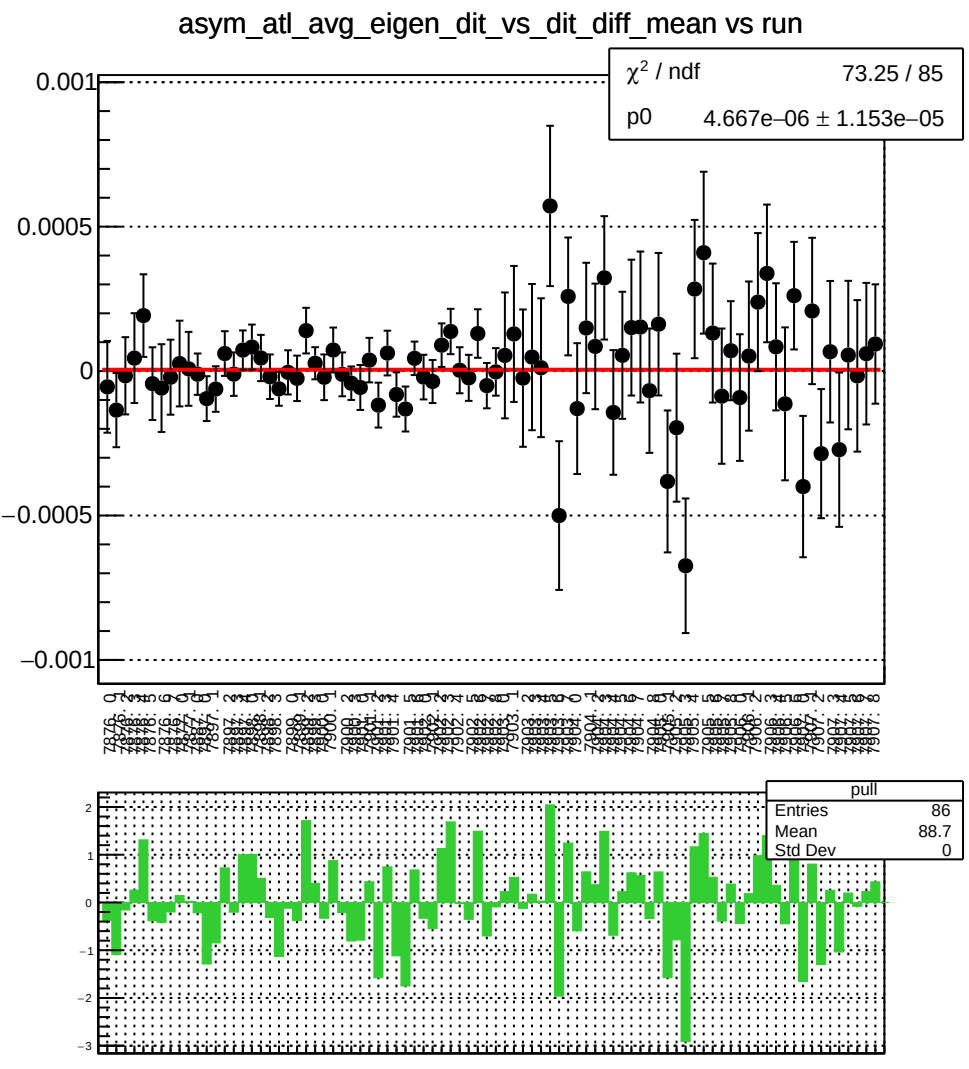

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 85
p0 4.821e−10 ± 6.213e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

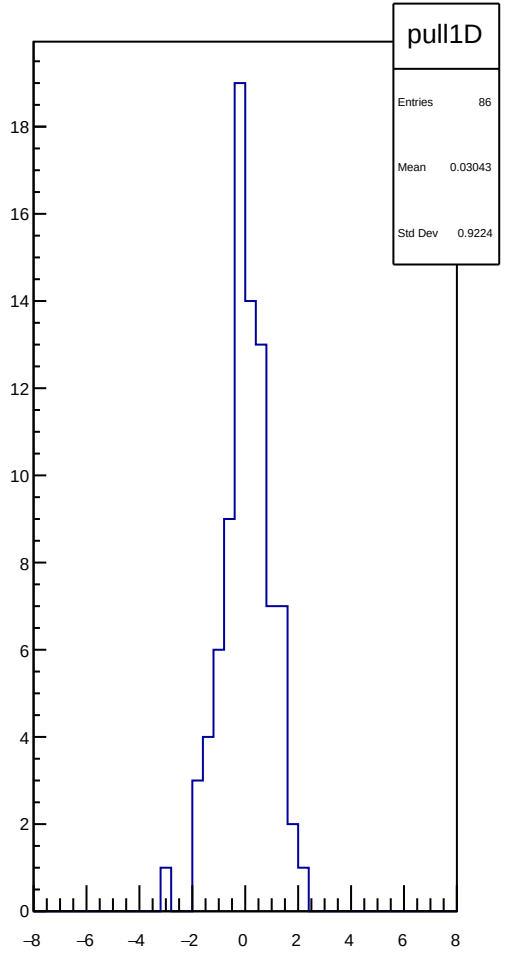

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.63 / 85
p0 −0.07541 ± 0.2857
pull
Entries 86
Mean 83.96
Std Dev 0
pull1D
Entries 86
Mean −0.04174
Std Dev 0.8792

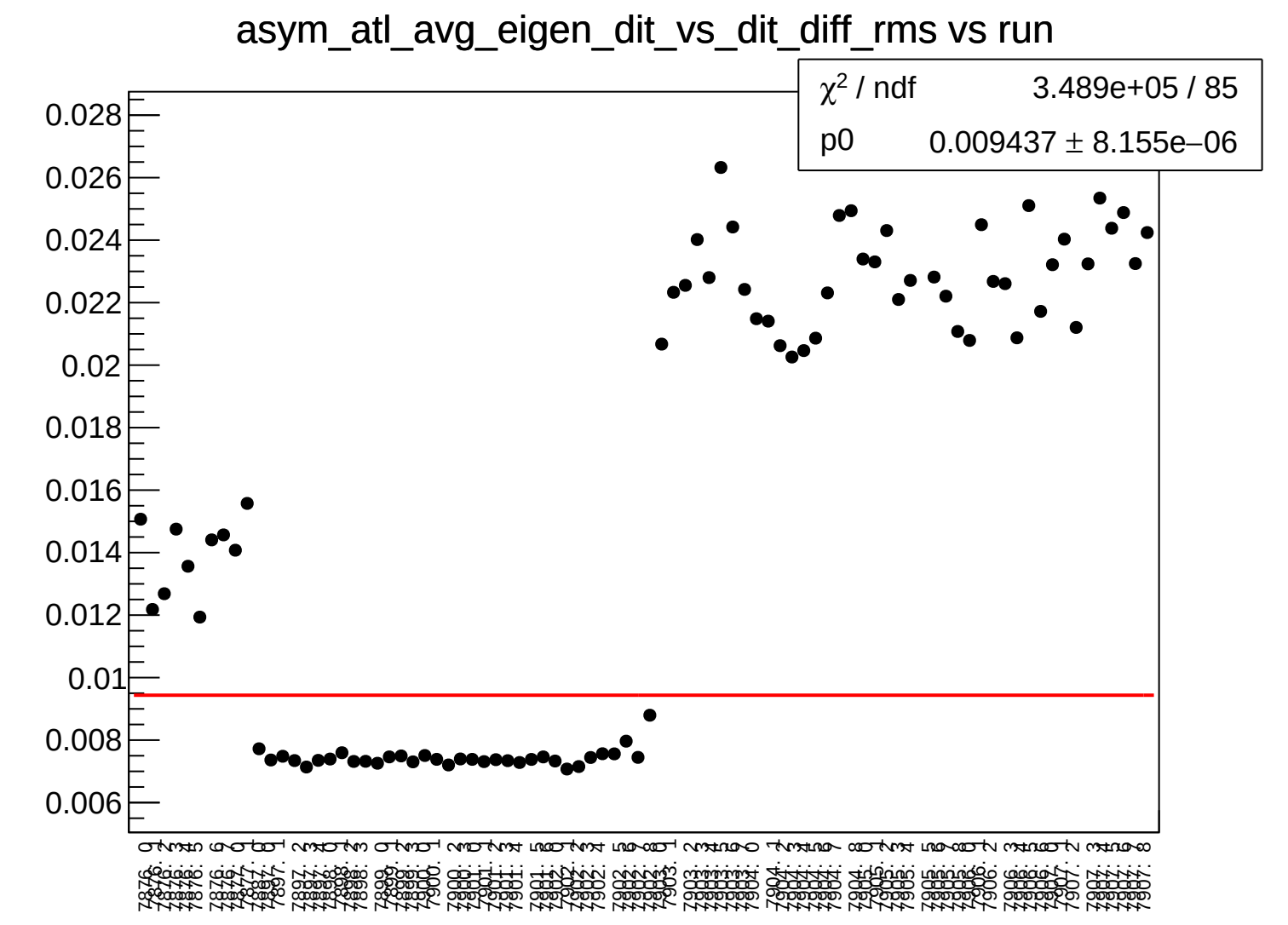

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.797e+05 / 85
p0 239.7 ± 0.202
1400
1200
1000
800
600
400
200

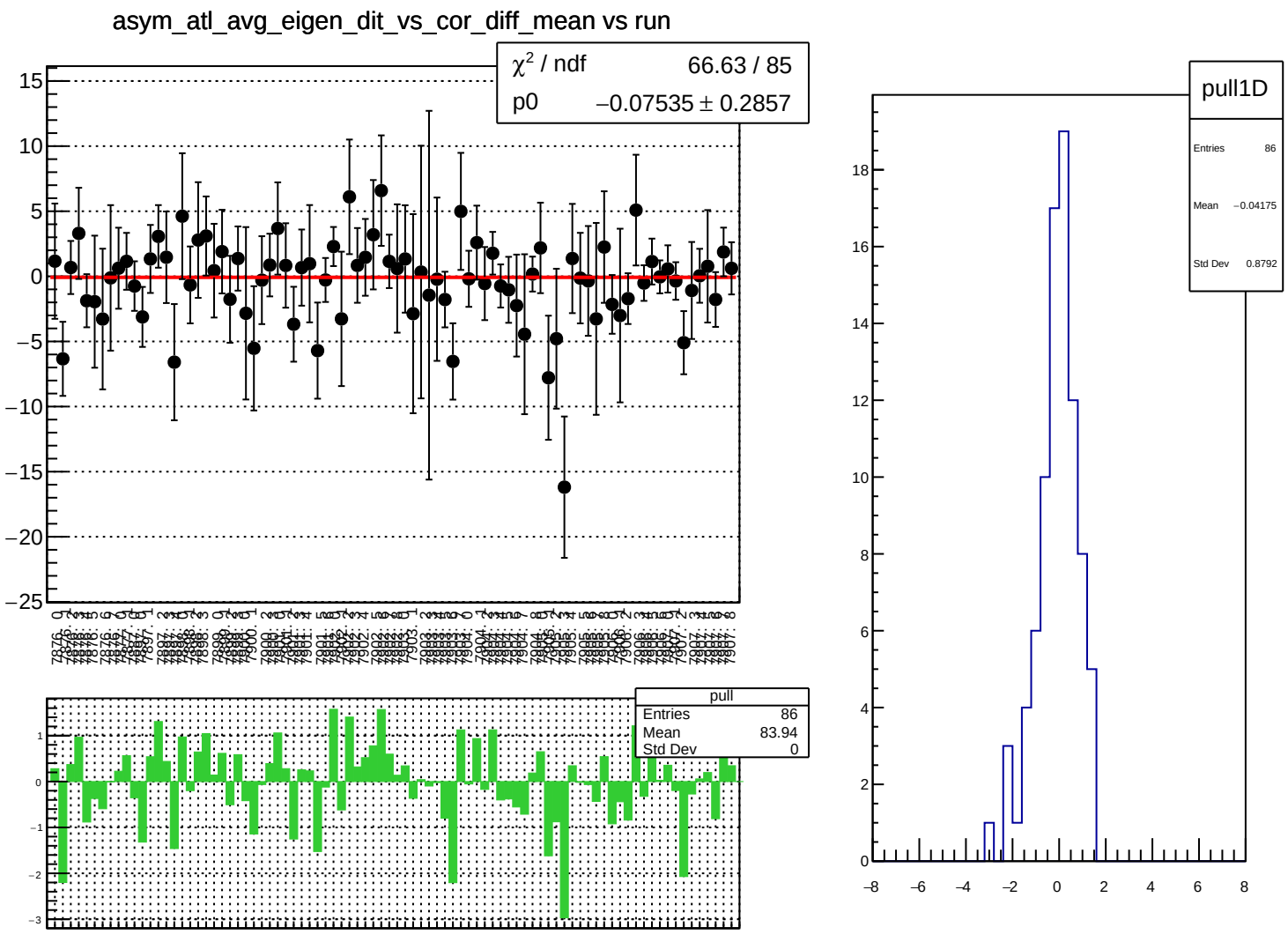

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.63 / 85
p0 −0.07541 ± 0.2857
pull
Entries 86
Mean 83.96
Std Dev 0
pull1D
Entries 86
Mean −0.04174
Std Dev 0.8792

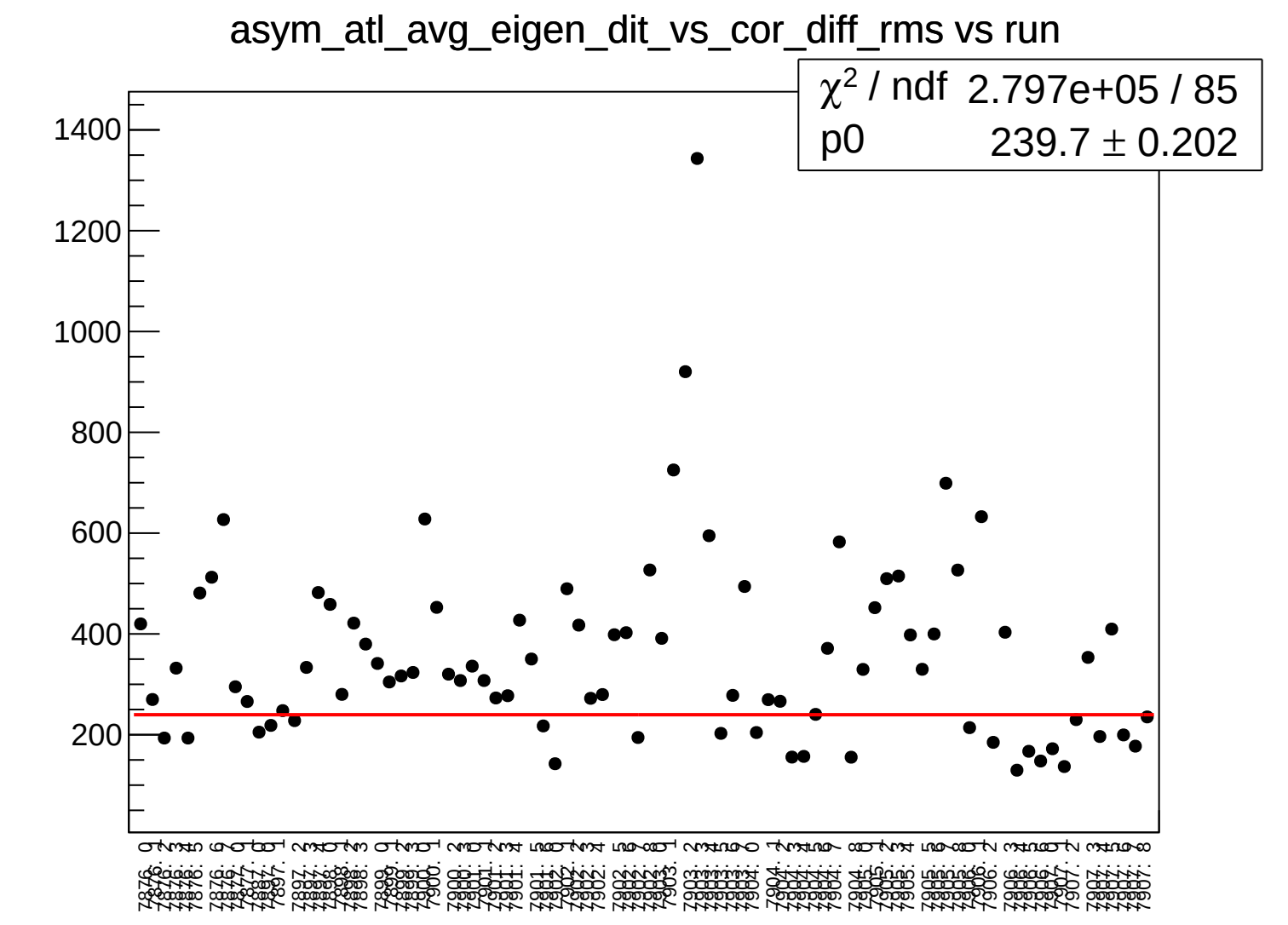

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.797e+05 / 85
p0 239.7 ± 0.202
1400
1200
1000
800
600
400
200

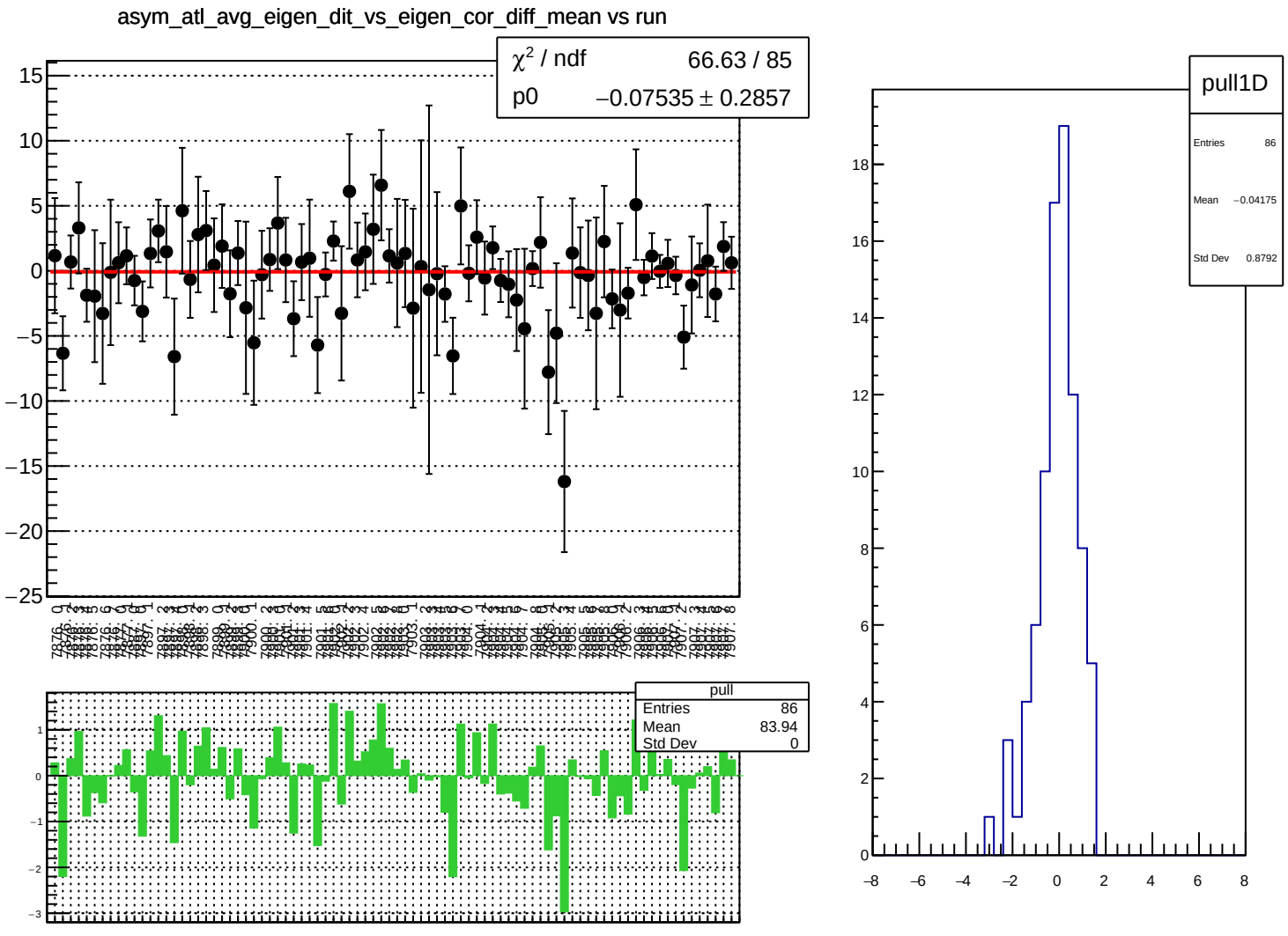

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.25 / 85
p0 4.667e−06 ± 1.153e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 88.7
Std Dev 0
2
1
0
−1
−2
−3

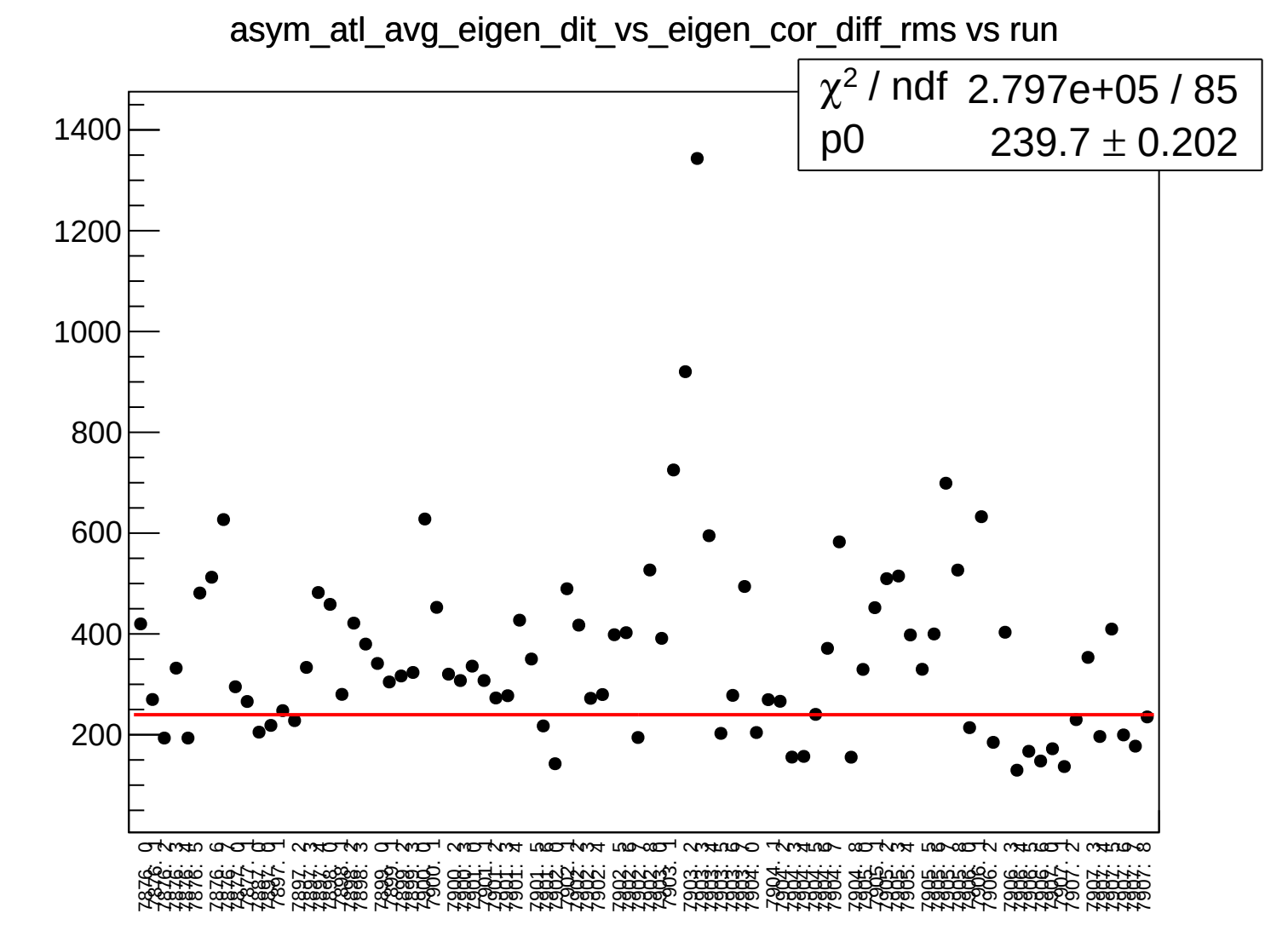

pull1D
Entries 86
Mean 0.03043
Std Dev 0.9224
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

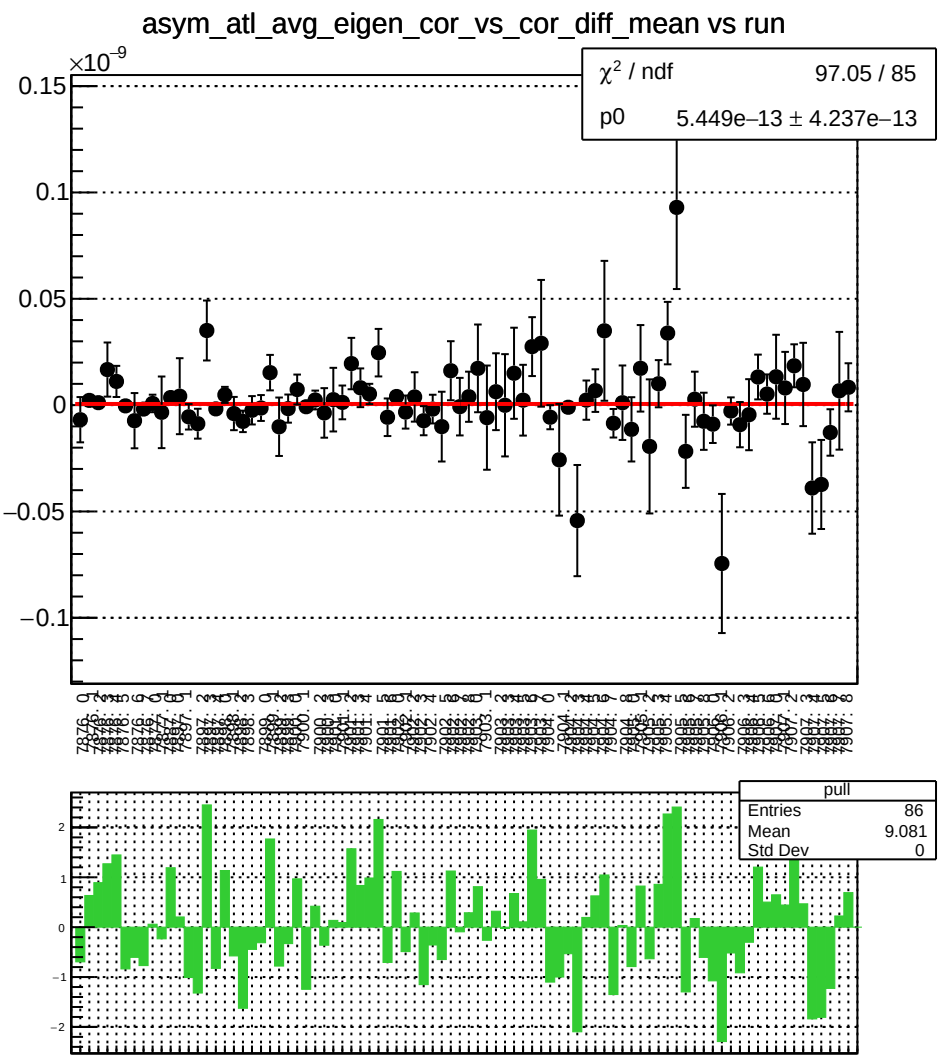

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.489e+05 / 85
p0 0.009437 ± 8.155e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

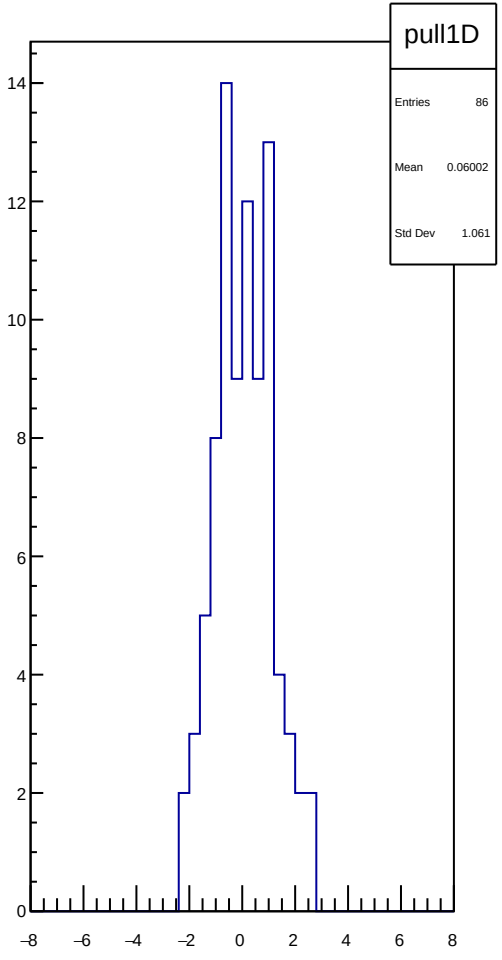

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.63 / 85
p0 −0.07535 ± 0.2857
pull
Entries 86
Mean 83.94
Std Dev 0
pull1D
Entries 86
Mean −0.04175
Std Dev 0.8792

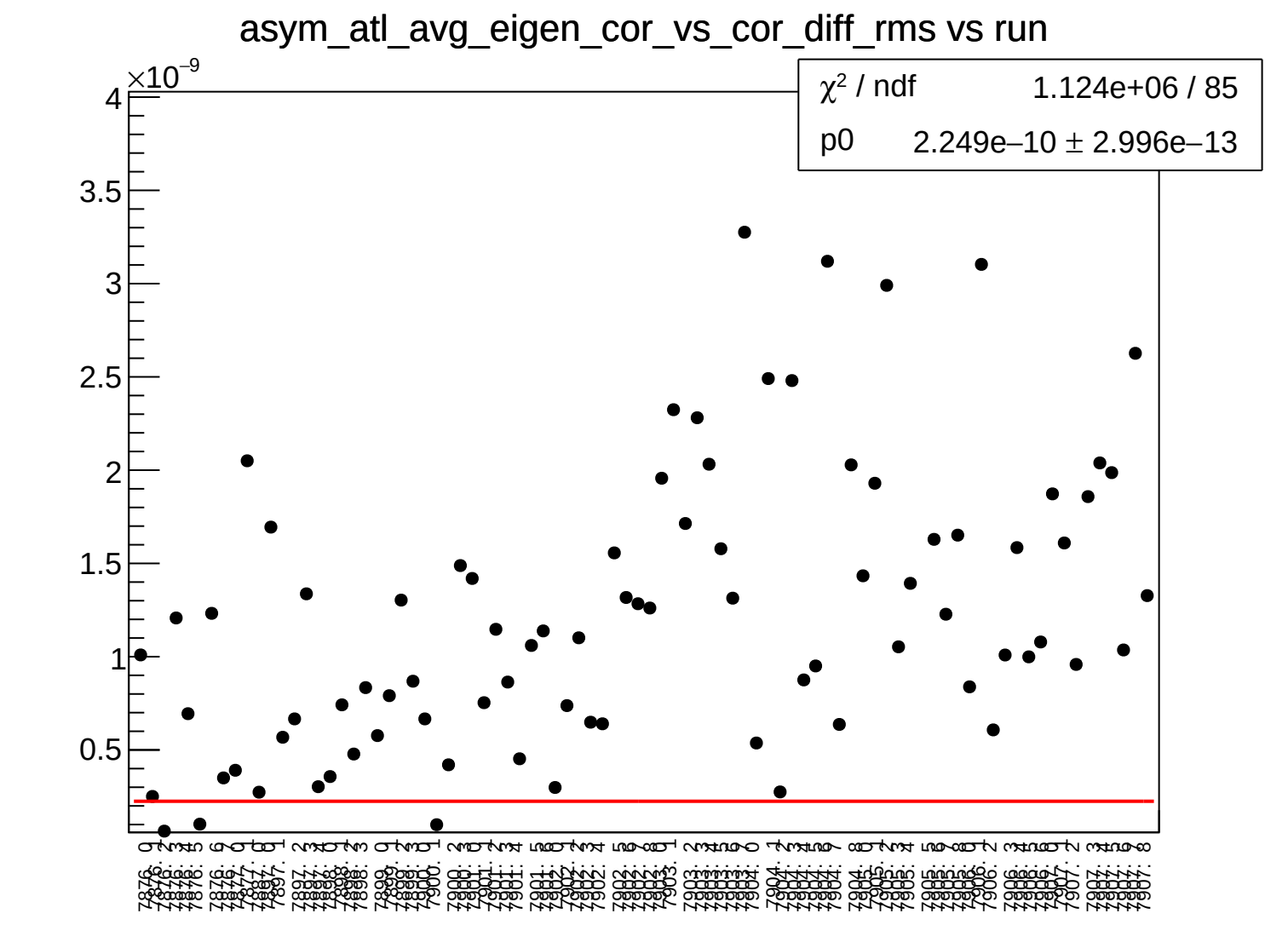

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.797e+05 / 85
p0 239.7 ± 0.202
1400
1200
1000
800
600
400
200

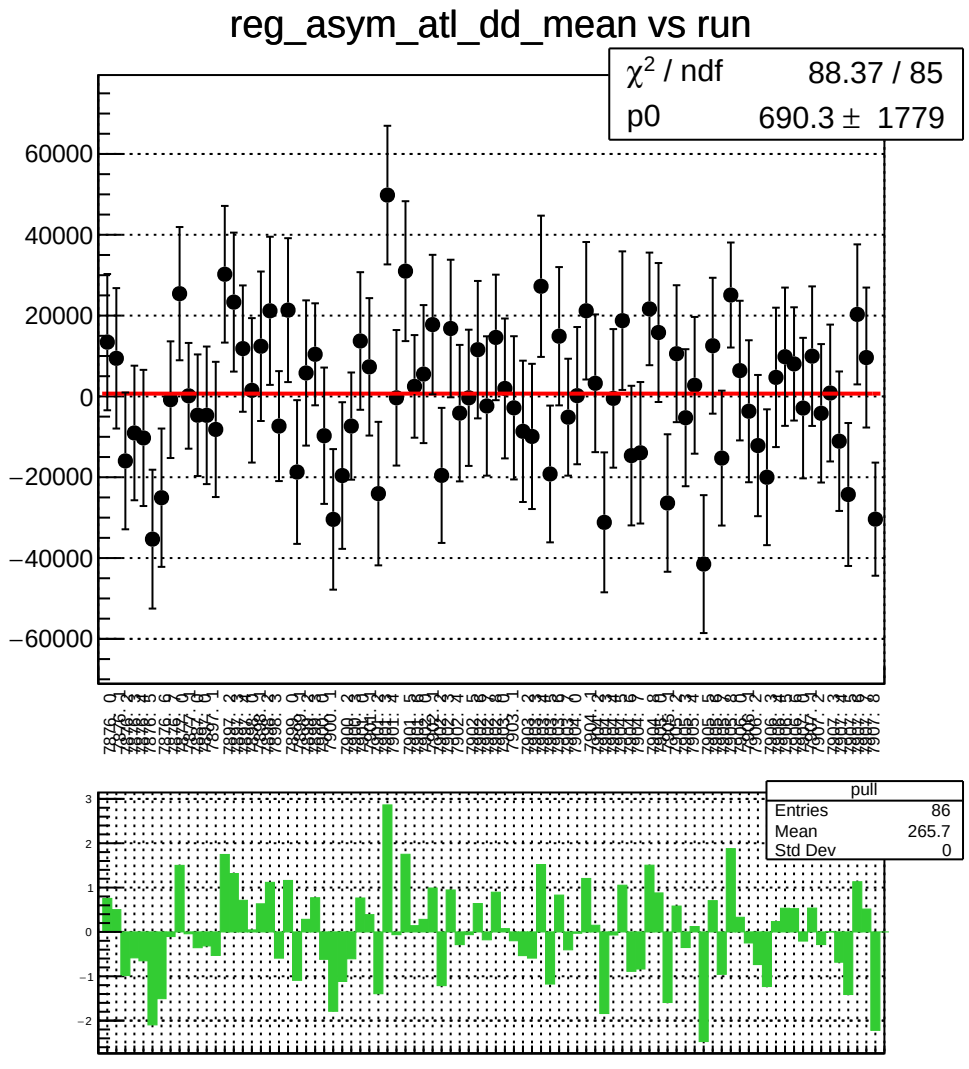

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.63 / 85
p0 −0.07535 ± 0.2857
pull
Entries 86
Mean 83.94
Std Dev 0
pull1D
Entries 86
Mean −0.04175
Std Dev 0.8792

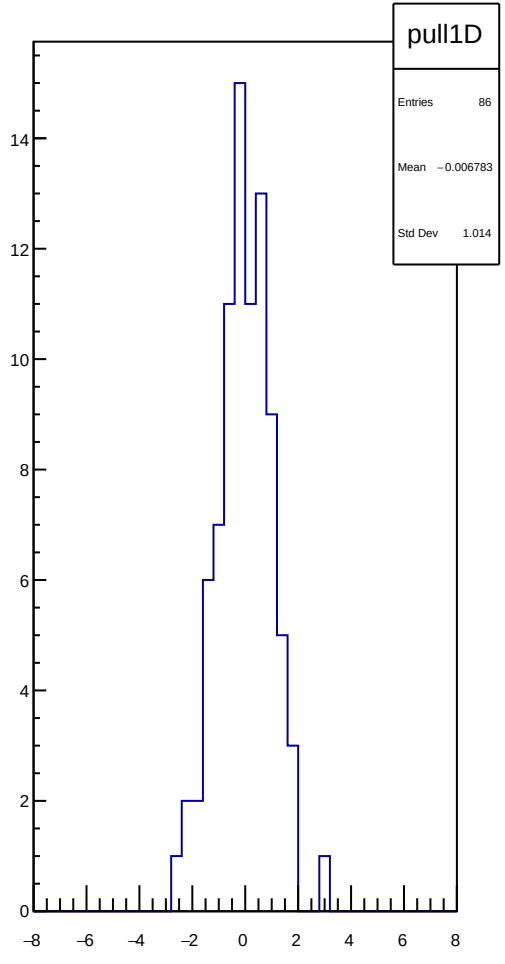

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.797e+05 / 85
p0 239.7 ± 0.202
1400
1200
1000
800
600
400
200

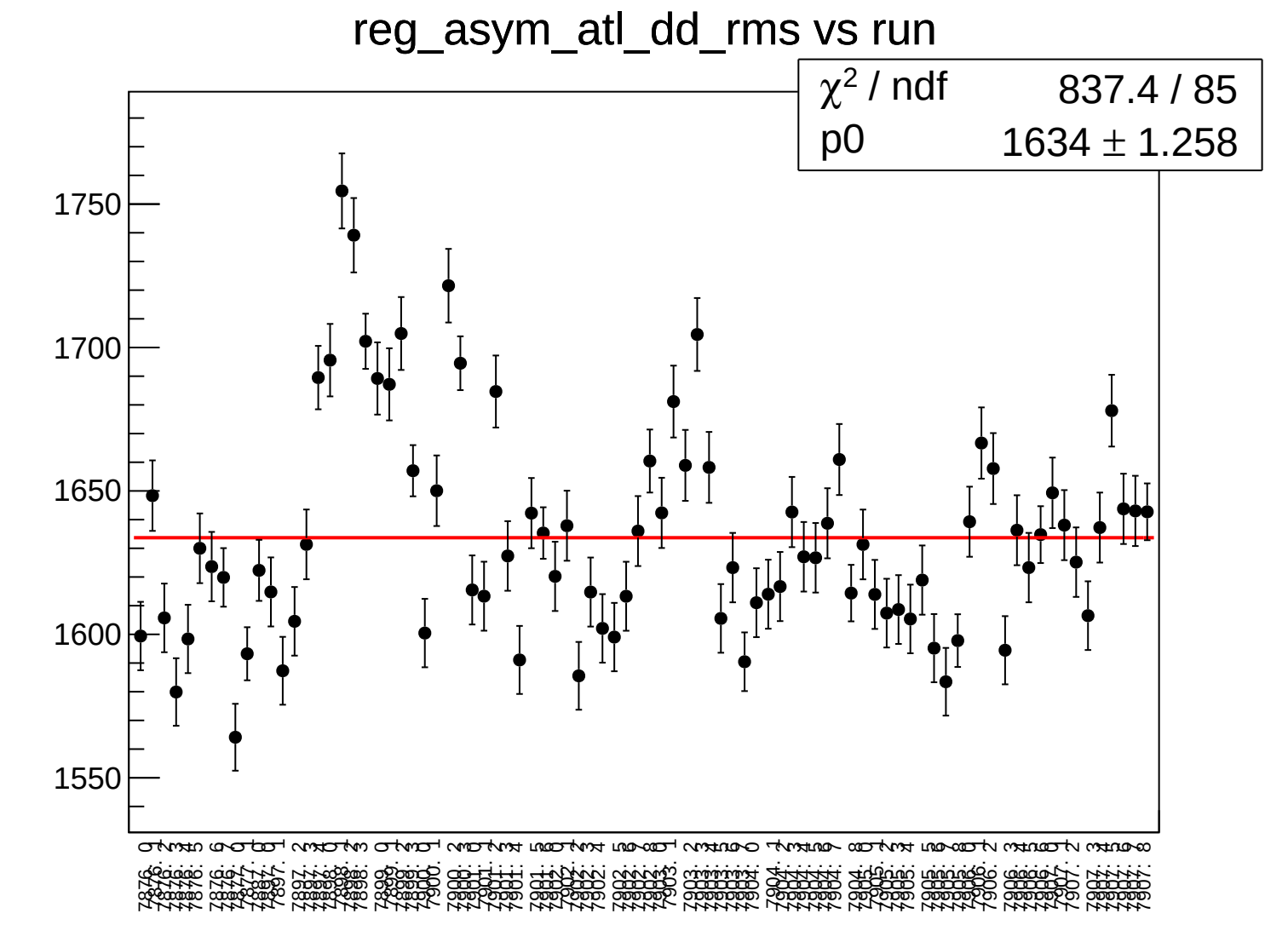

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 97.05 / 85
p0 5.449e−13 ± 4.237e−13
pull
Entries 86
Mean 9.081
Std Dev 0

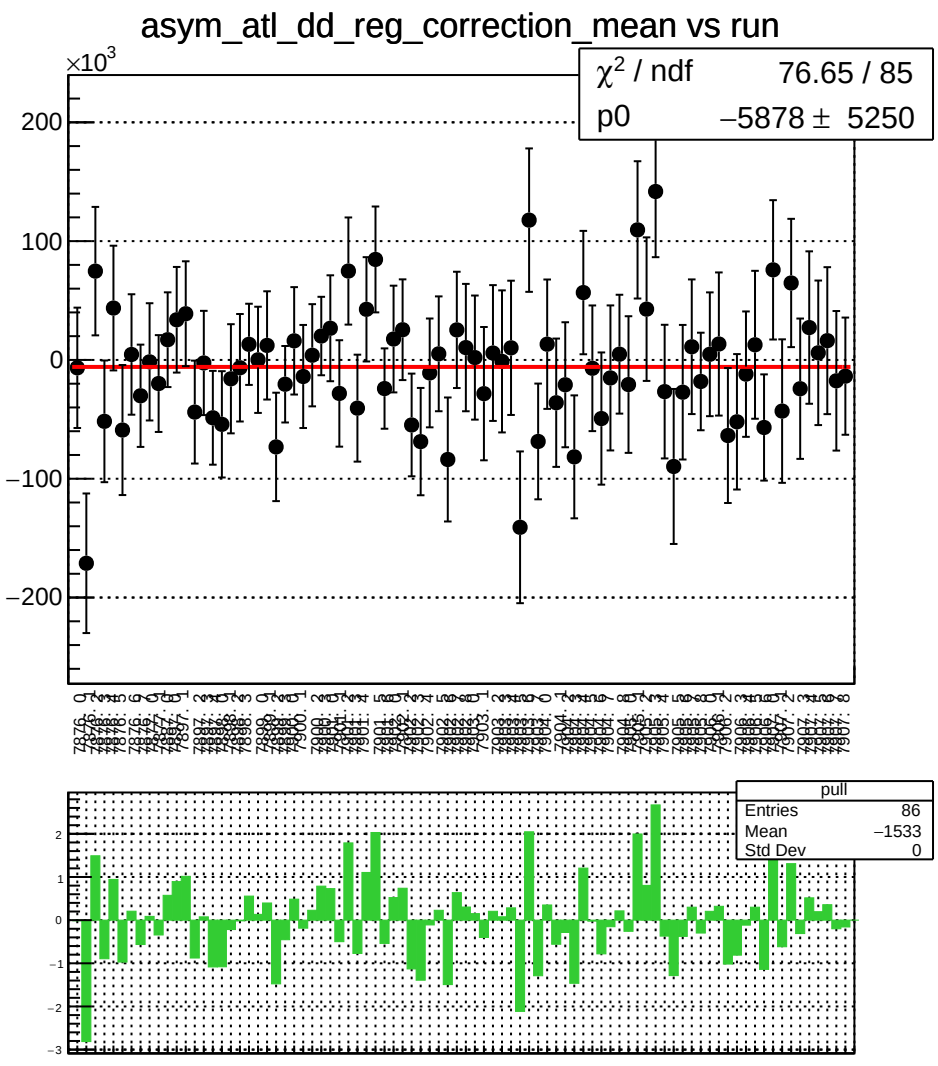

pull1D
Entries 86
Mean 0.06002
Std Dev 1.061

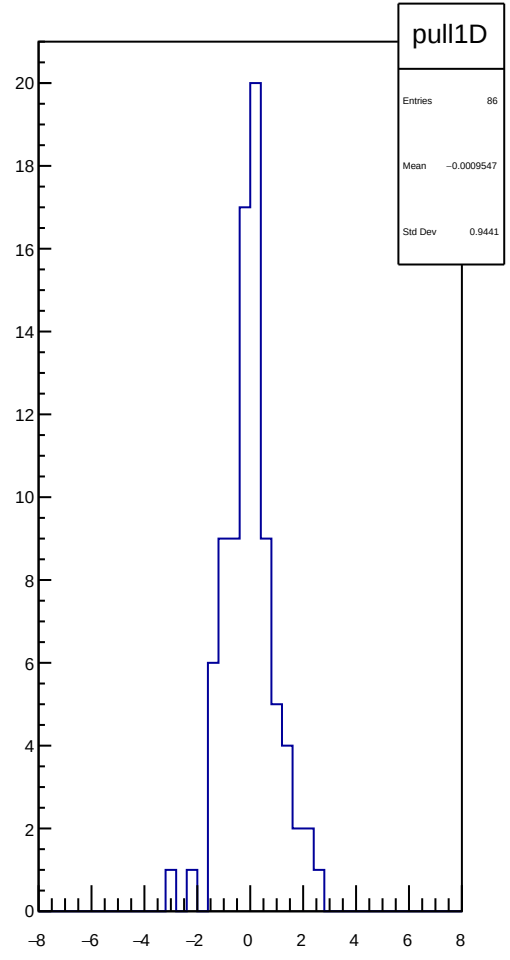

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.124e+06 / 85
p0 2.249e−10 ± 2.996e−13
4
3.5
3
2.5
2
1.5
1
0.5

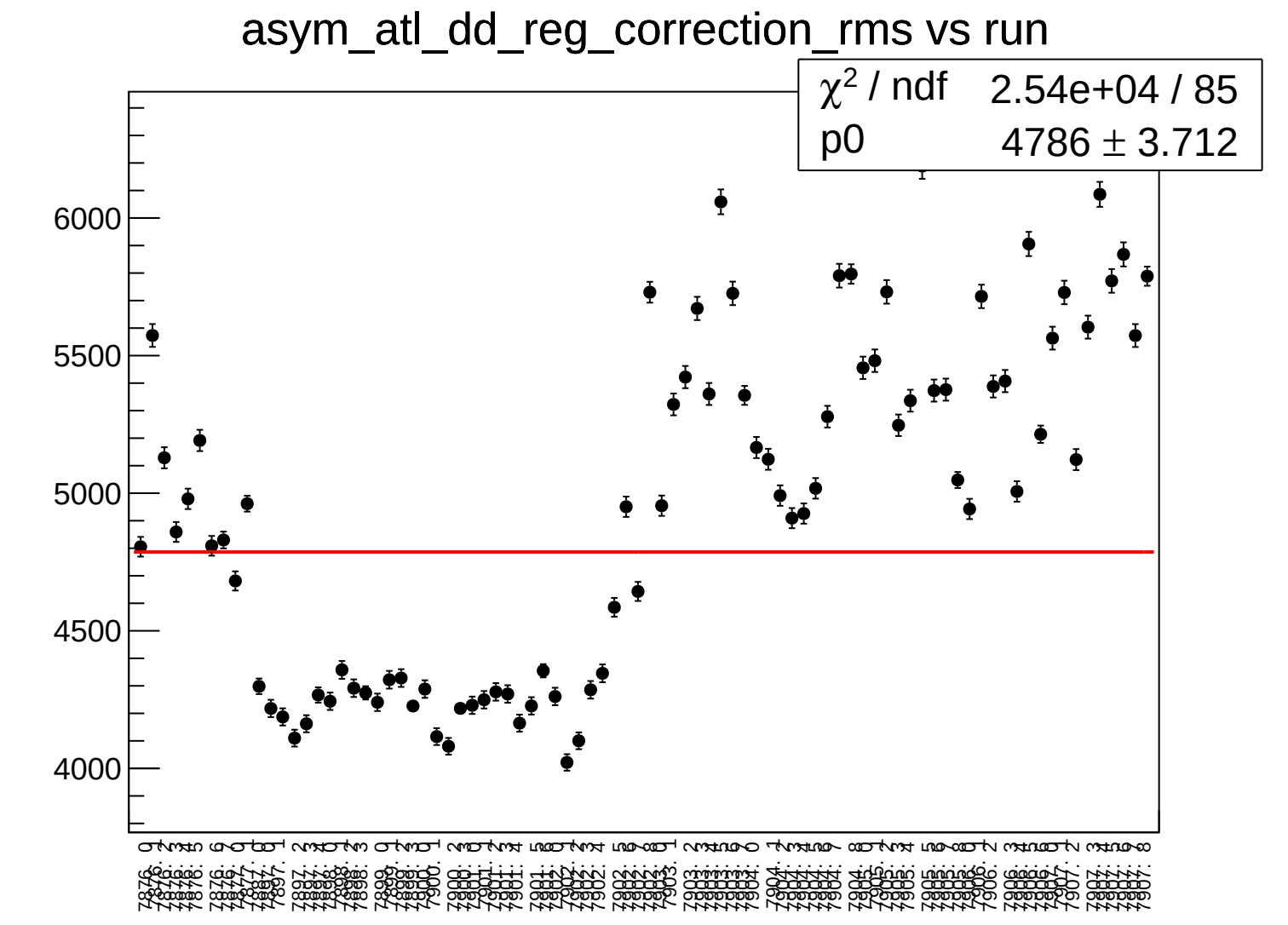

reg_asym_atl_dd_mean vs run
χ² / ndf 88.37 / 85
p0 690.3 ± 1779
pull
Entries 86
Mean 265.7
Std Dev 0

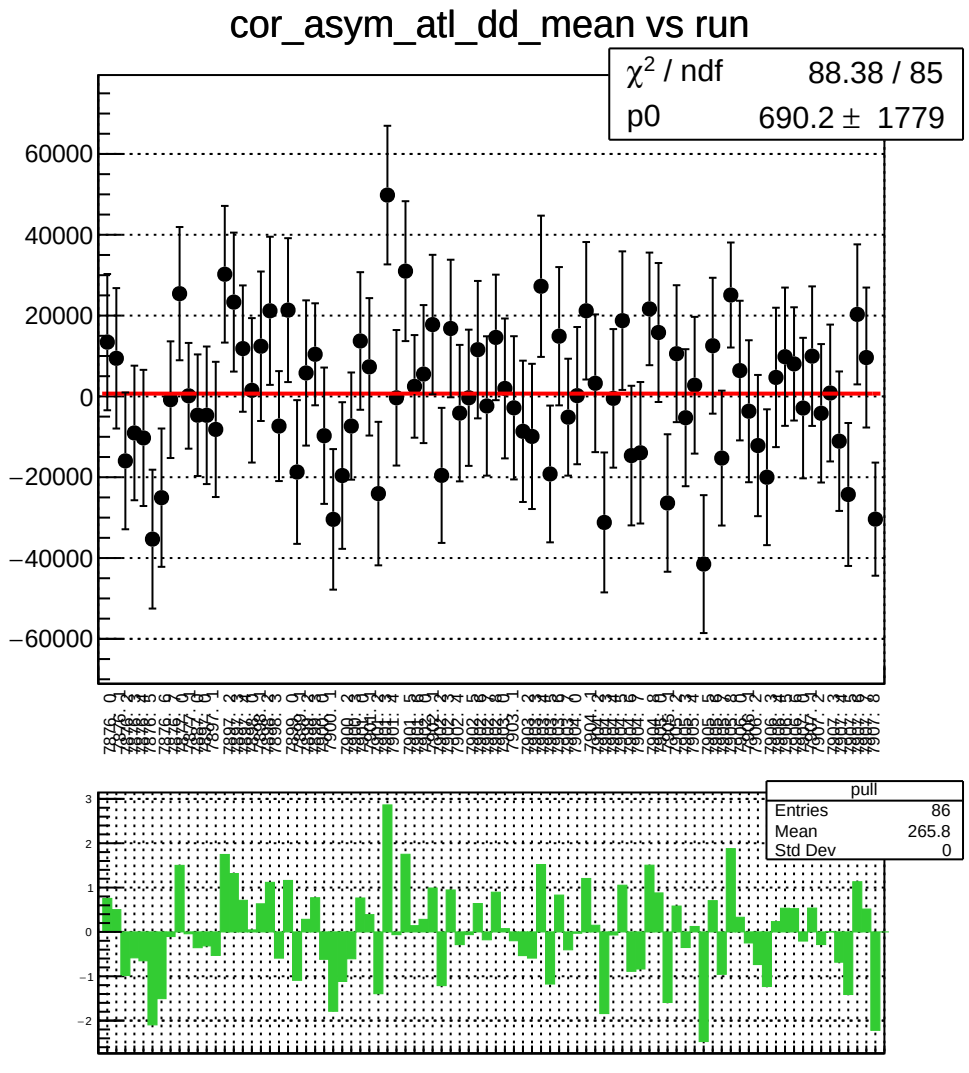

pull1D
Entries 86
Mean −0.006783
Std Dev 1.014

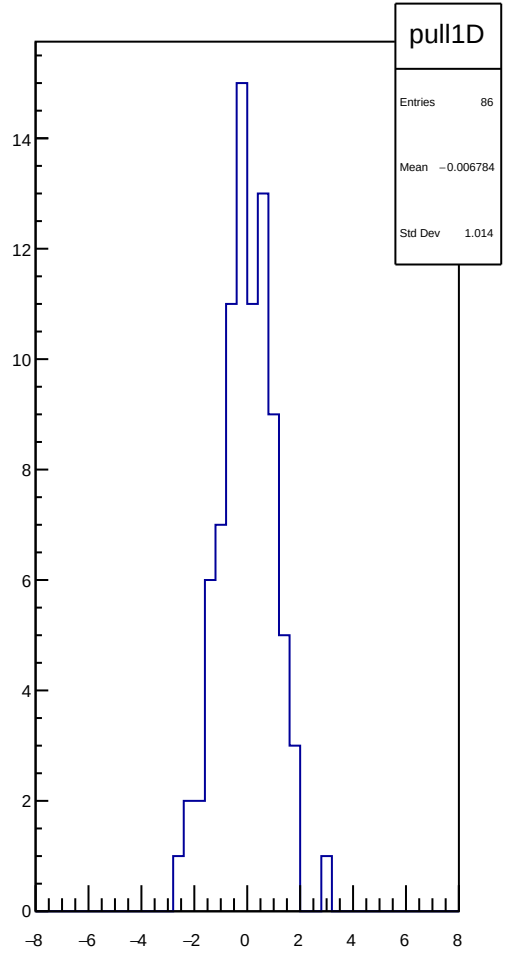

reg_asym_atl_dd_rms vs run
χ^2 / ndf 837.4 / 85
p0 1634 ± 1.258
1750
1700
1650
1600
1550

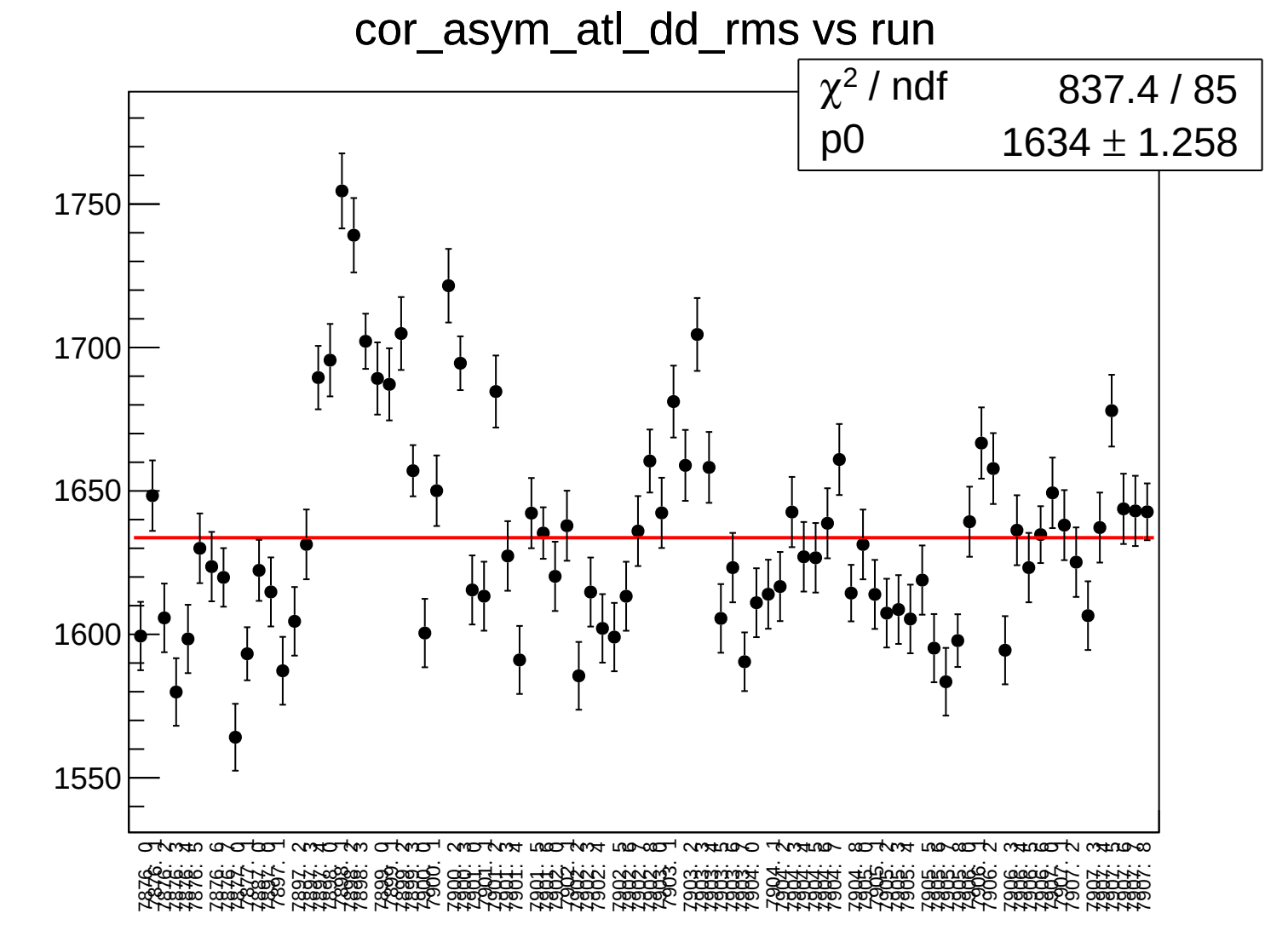

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 76.65 / 85
p0 −5878 ± 5250
200
100
0
−100
−200
pull
Entries 86
Mean −1533
Std Dev 0
2
1
0
−1
−2
−3

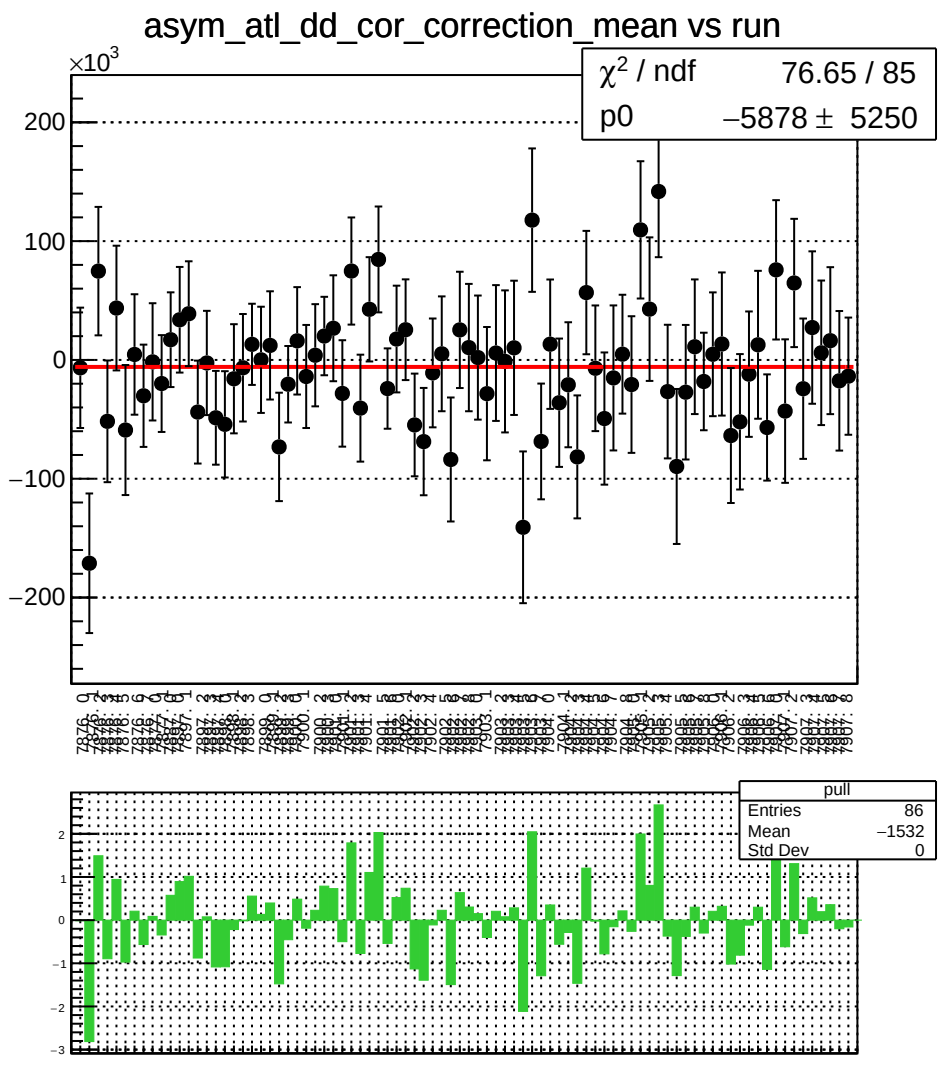

pull1D
Entries 86
Mean −0.0009547
Std Dev 0.9441
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

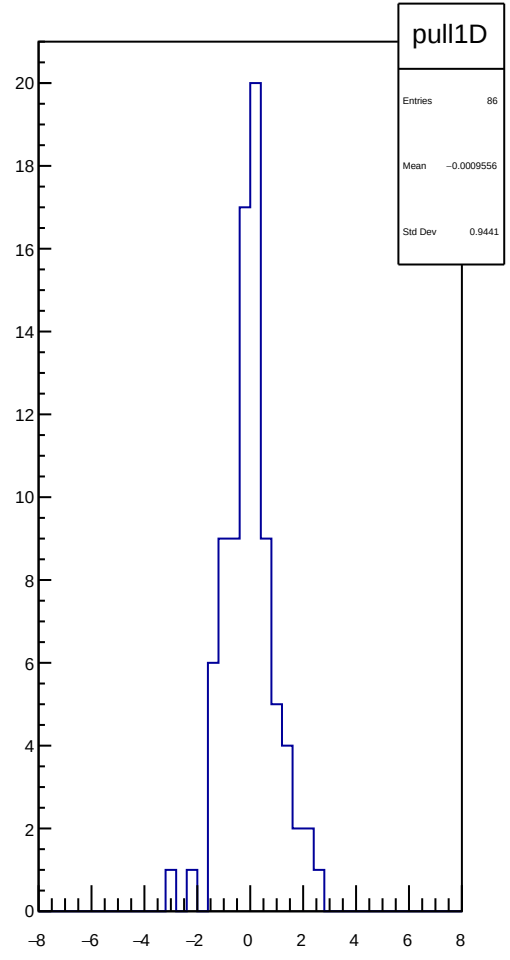

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 2.54e+04 / 85
p0 4786 ± 3.712
6000
5500
5000
4500
4000

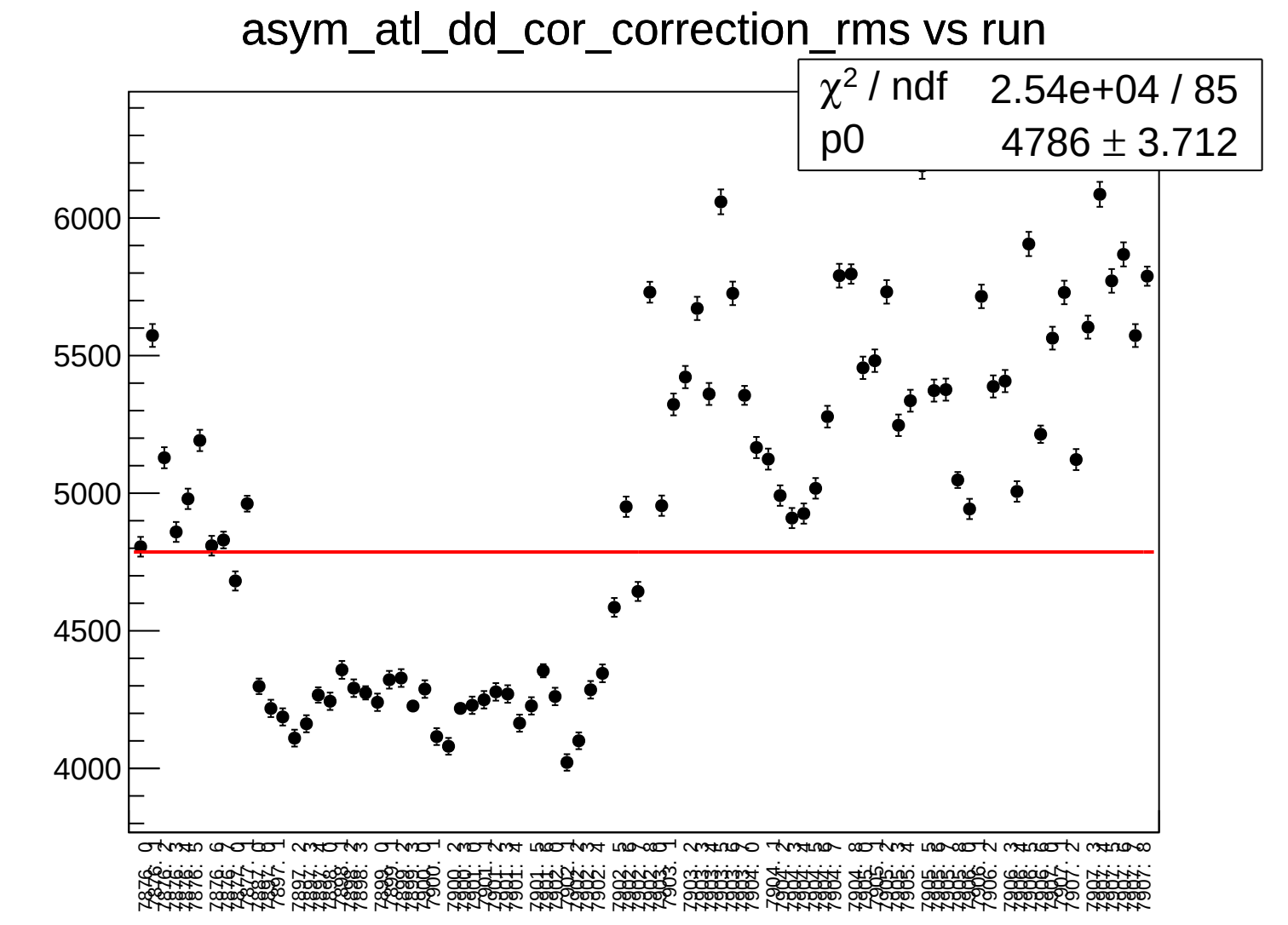

cor_asym_atl_dd_mean vs run
χ² / ndf 88.38 / 85
p0 690.2 ± 1779
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 265.8
Std Dev 0
3
2
1
0
−1
−2

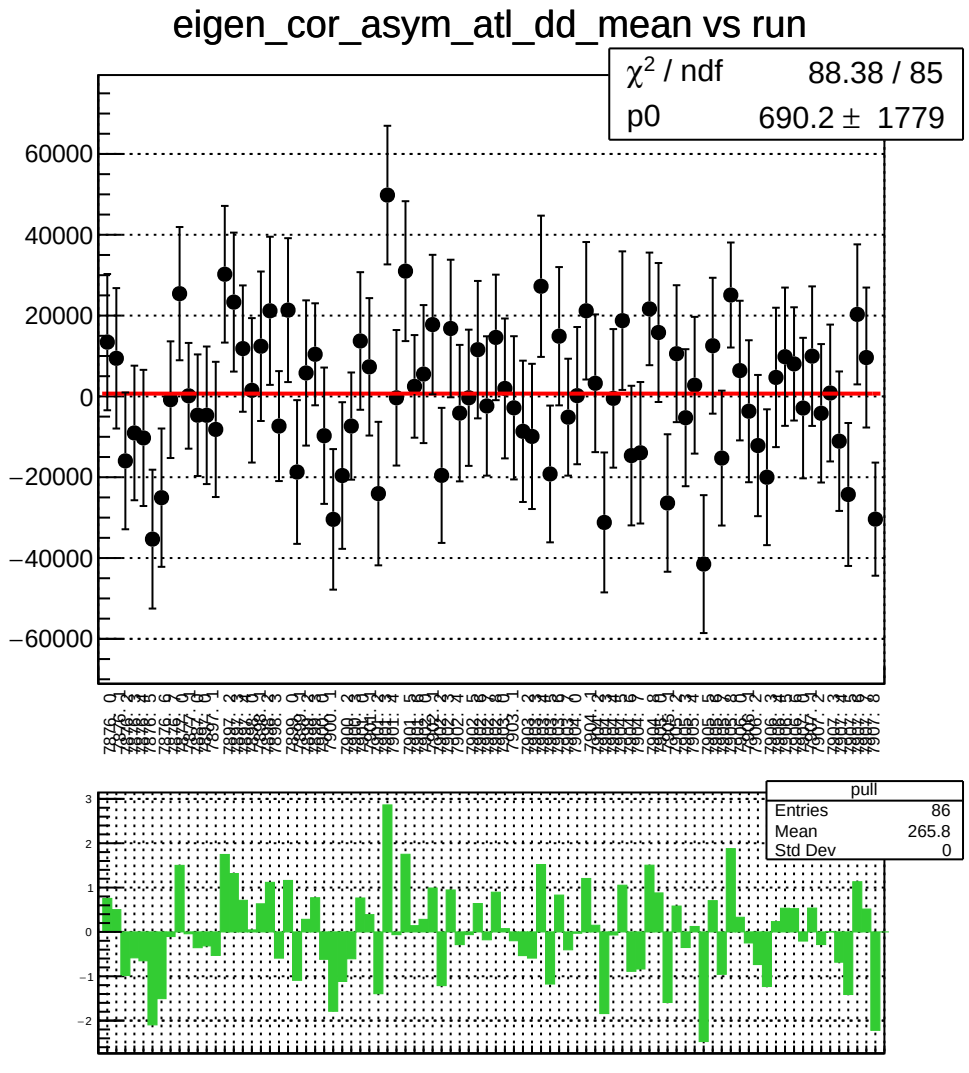

pull1D
Entries 86
Mean −0.006784
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

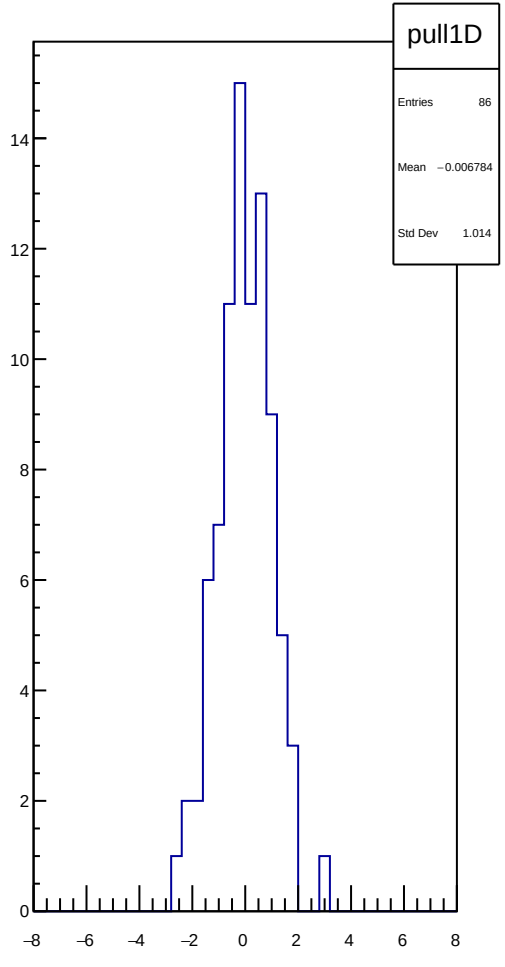

cor_asym_atl_dd_rms vs run
χ^2 / ndf 837.4 / 85
p0 1634 ± 1.258
1750
1700
1650
1600
1550

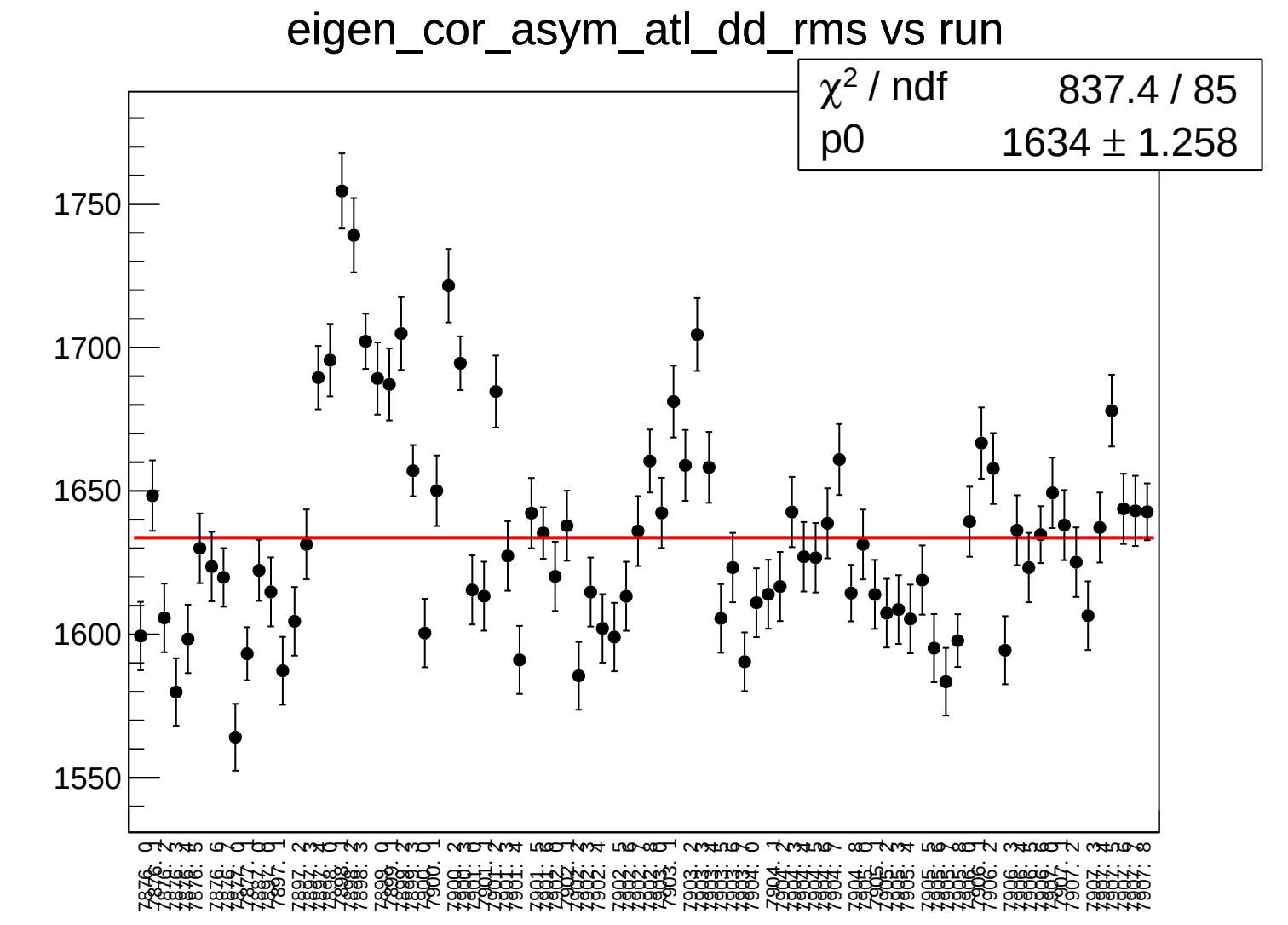

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 76.65 / 85
p0 −5878 ± 5250
200
100
0
−100
−200
pull
Entries 86
Mean −1532
Std Dev 0
2
1
0
−1
−2
−3

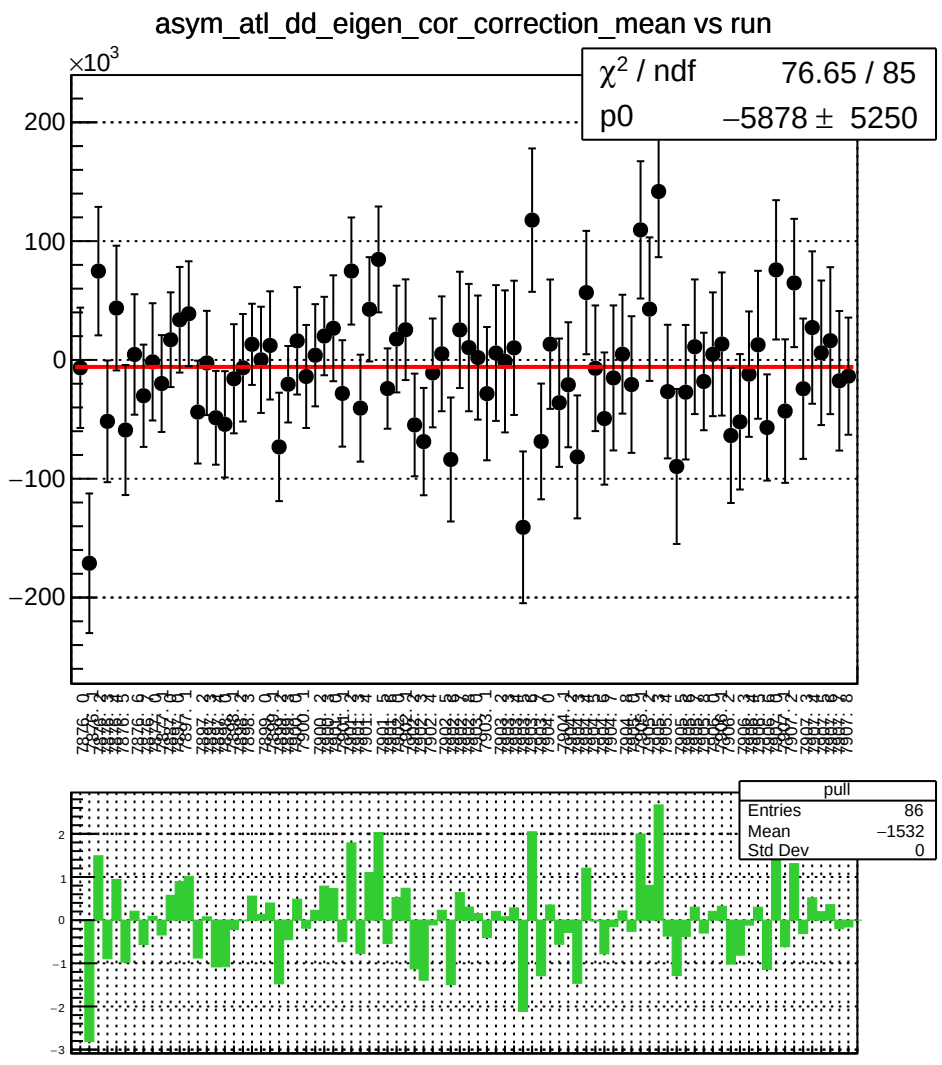

pull1D
Entries 86
Mean −0.0009556
Std Dev 0.9441
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

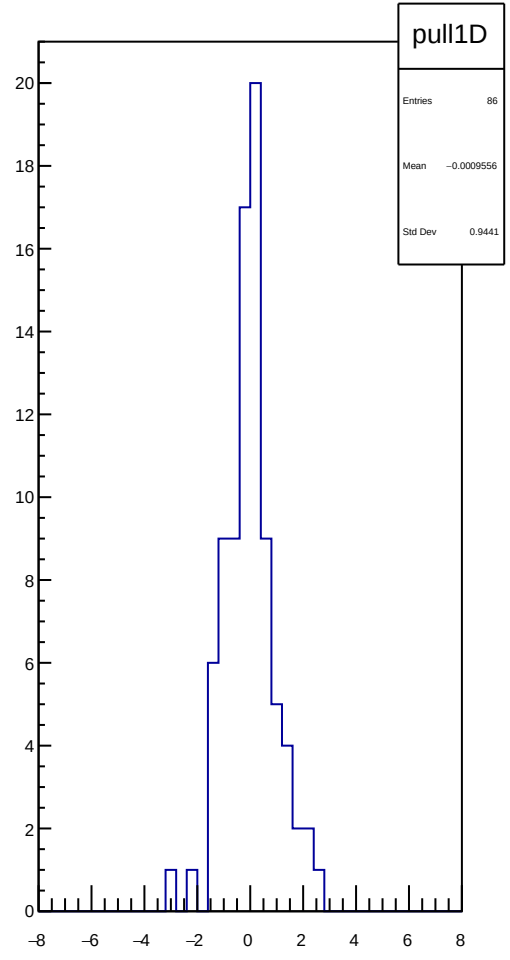

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 2.54e+04 / 85
p0 4786 ± 3.712
6000
5500
5000
4500
4000

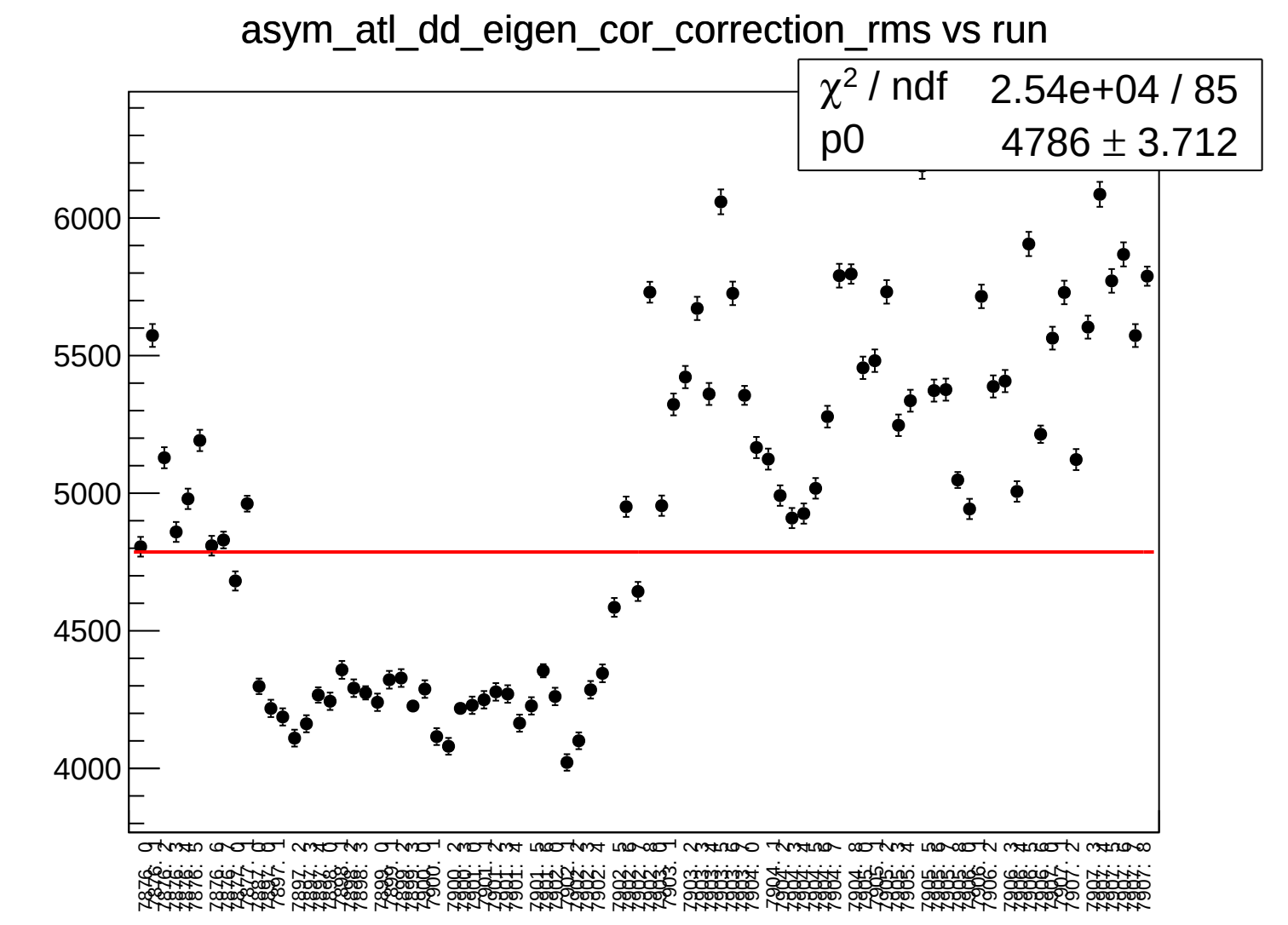

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 88.38 / 85
p0 690.2 ± 1779
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 265.8
Std Dev 0
3
2
1
0
−1
−2

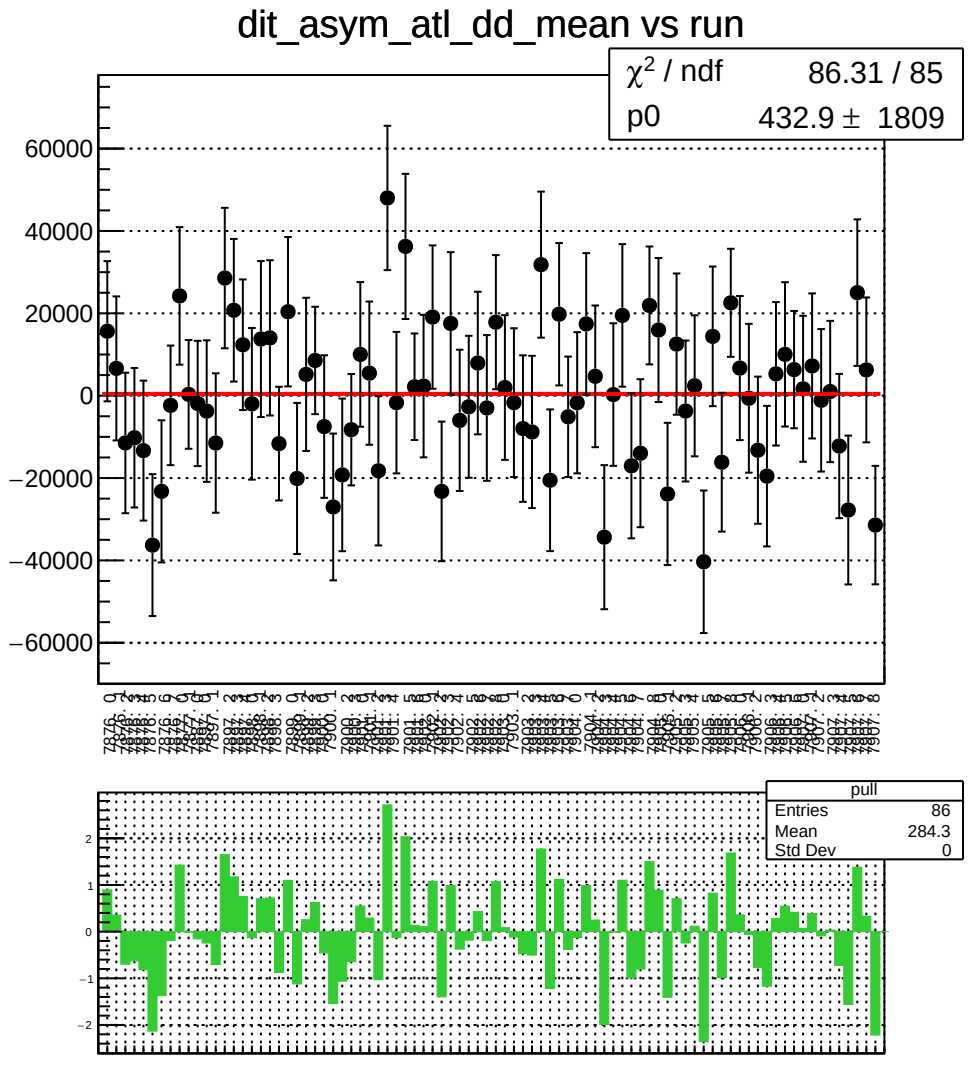

pull1D
Entries 86
Mean −0.006784
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

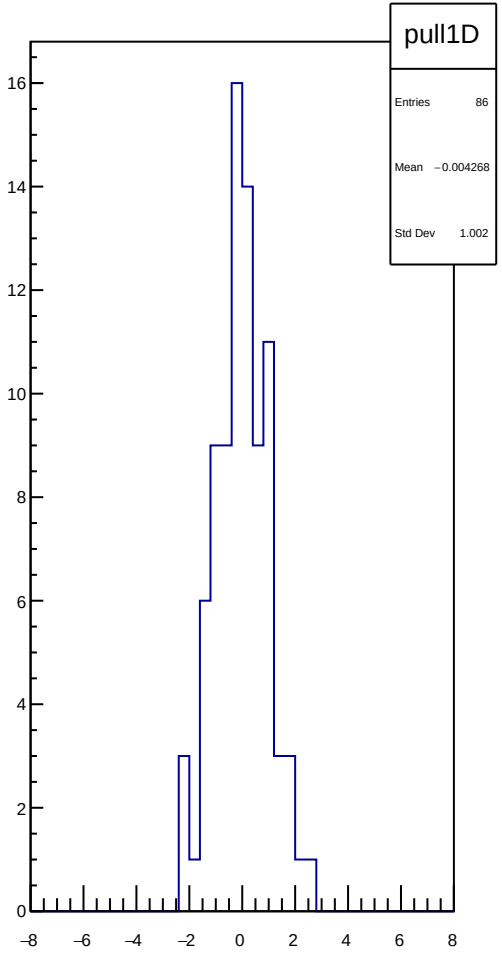

eigen_cor_asym_atl_dd_rms vs run
χ^2 / ndf 837.4 / 85
p0 1634 ± 1.258
1750
1700
1650
1600
1550

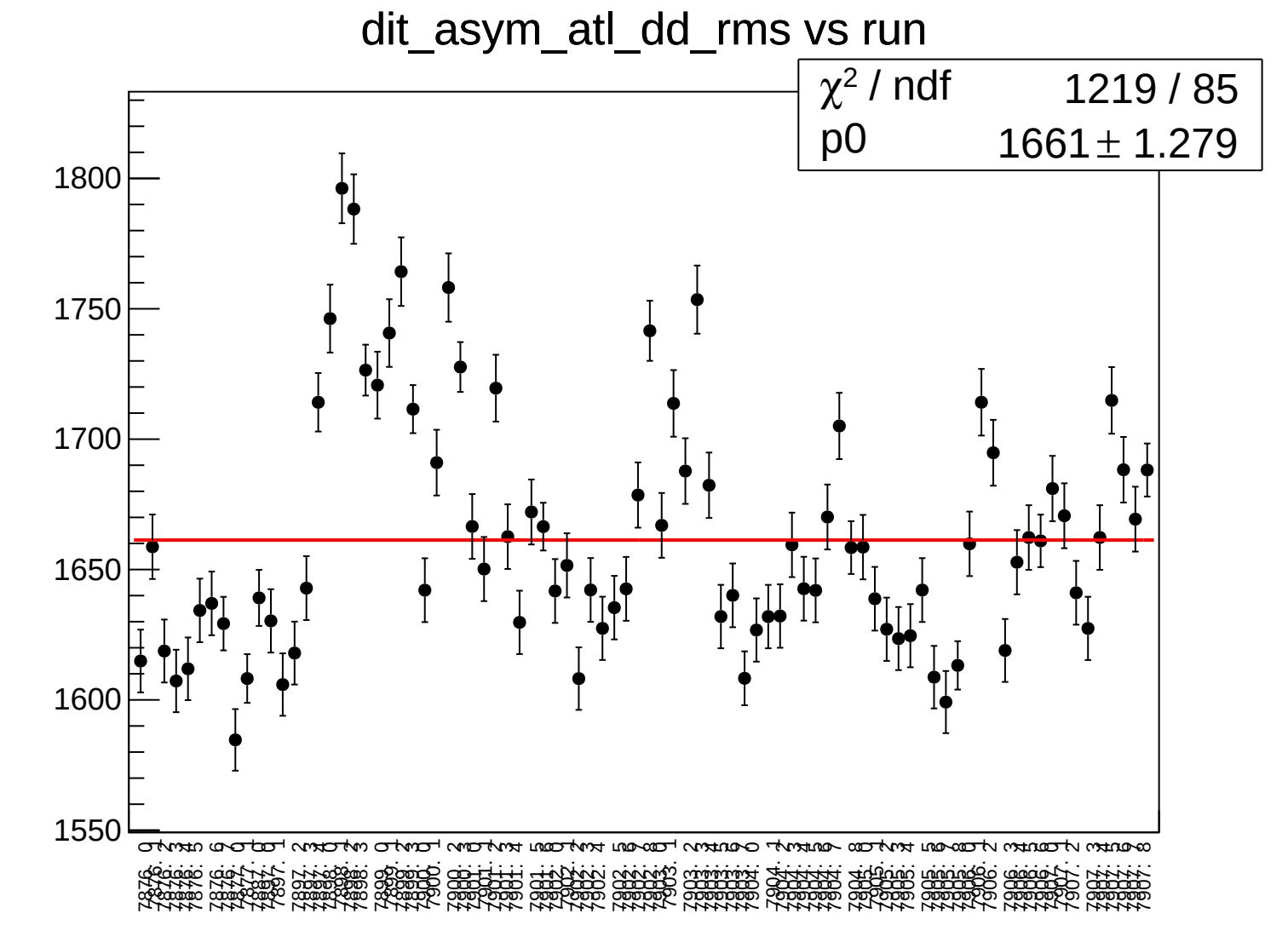

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.65 / 85
p0 −5878 ± 5250
200
100
0
−100
−200
pull
Entries 86
Mean −1532
Std Dev 0
2
1
0
−1
−2
−3

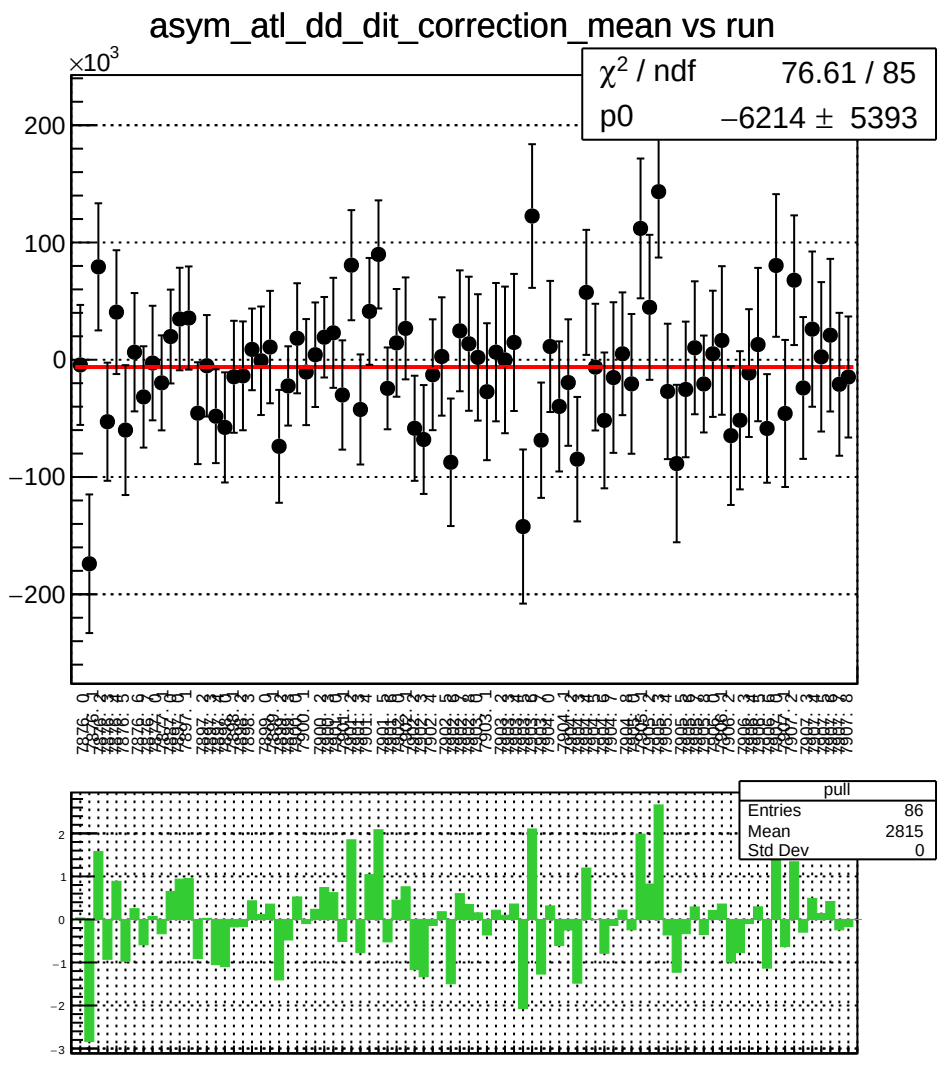

pull1D
Entries 86
Mean −0.0009556
Std Dev 0.9441
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

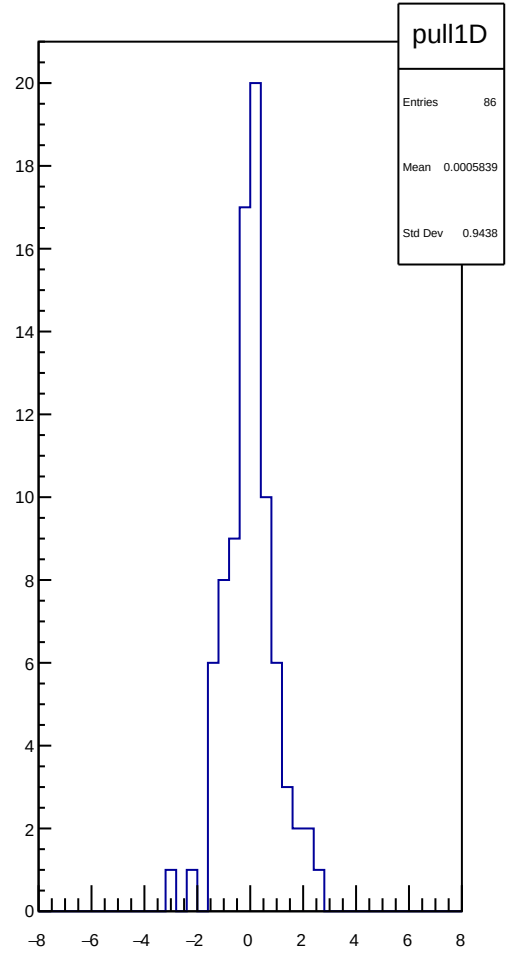

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.54e+04 / 85
p0 4786 ± 3.712
6000
5500
5000
4500
4000

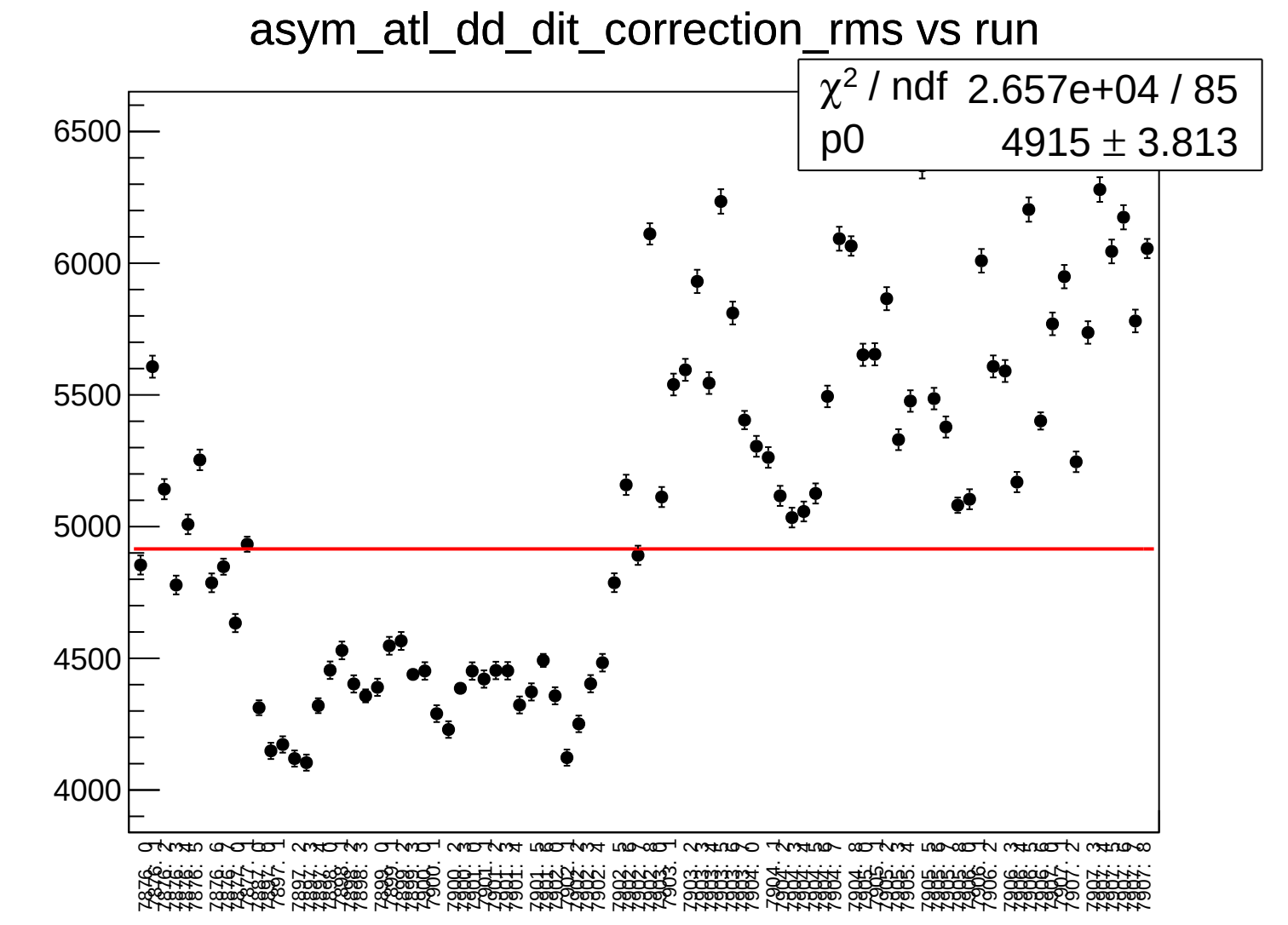

dit_asym_atl_dd_mean vs run
χ² / ndf 86.31 / 85
p0 432.9 ± 1809
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 284.3
Std Dev 0
2
1
0
−1
−2

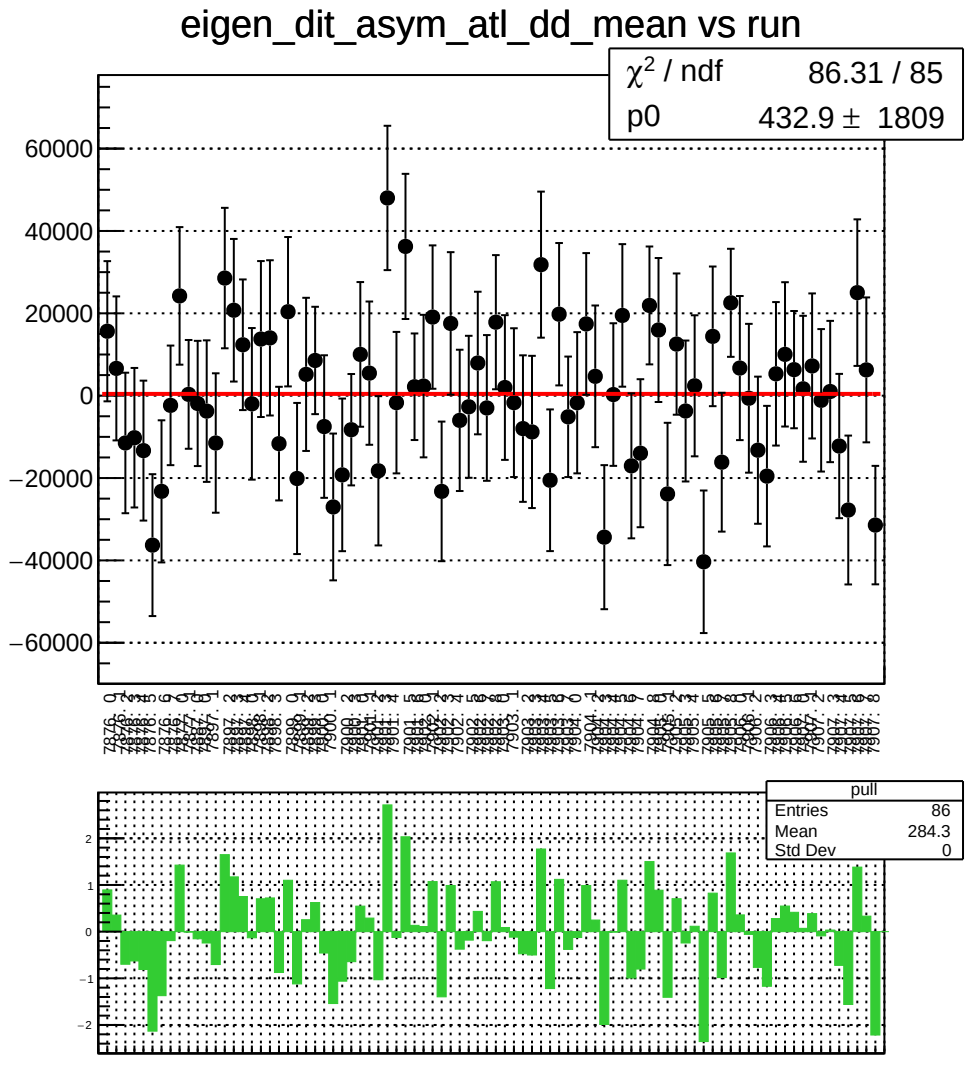

pull1D
Entries 86
Mean −0.004268
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

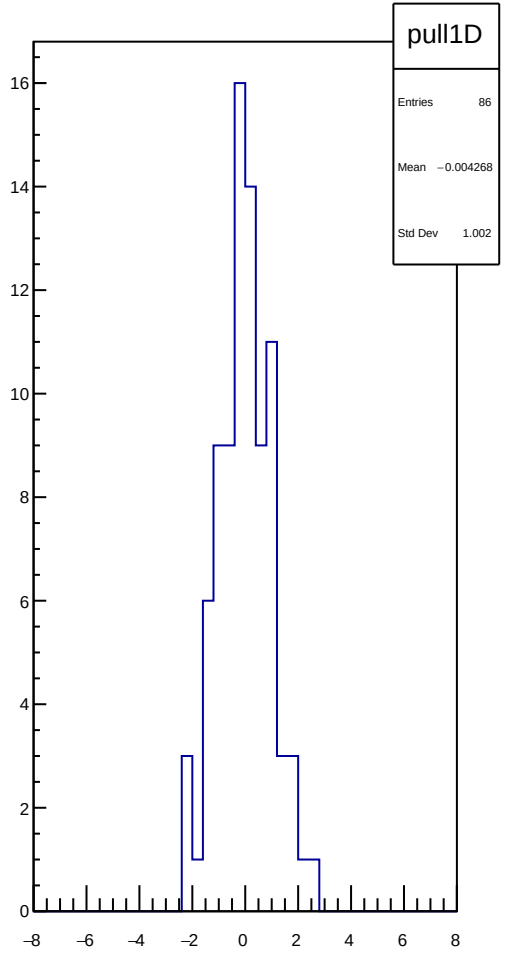

dit_asym_atl_dd_rms vs run
χ² / ndf 1219 / 85
p0 1661 ± 1.279
1800
1750
1700
1650
1600
1550

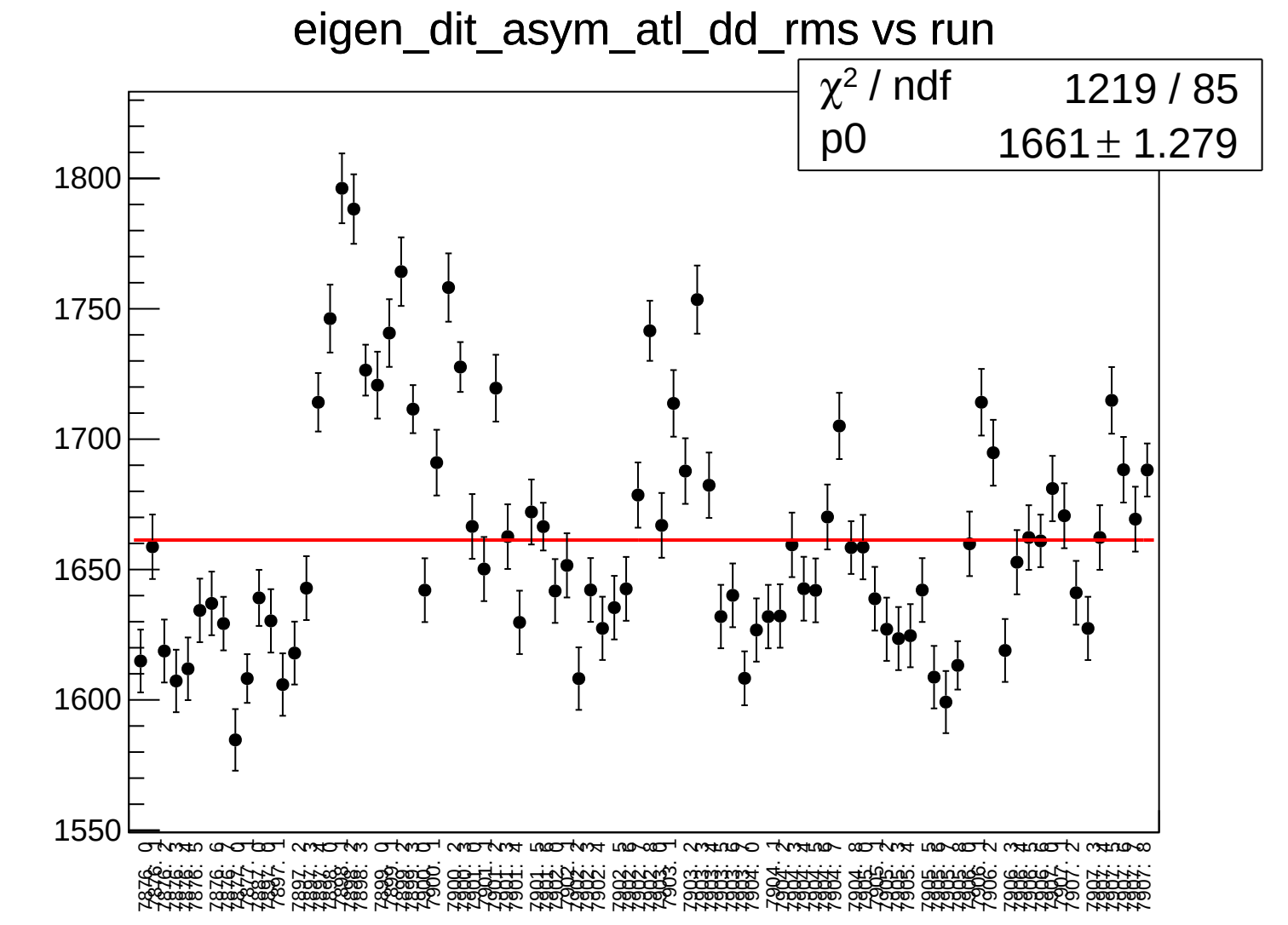

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 76.61 / 85
p0 −6214 ± 5393
200
100
0
−100
−200
pull
Entries 86
Mean 2815
Std Dev 0
2
1
0
−1
−2
−3

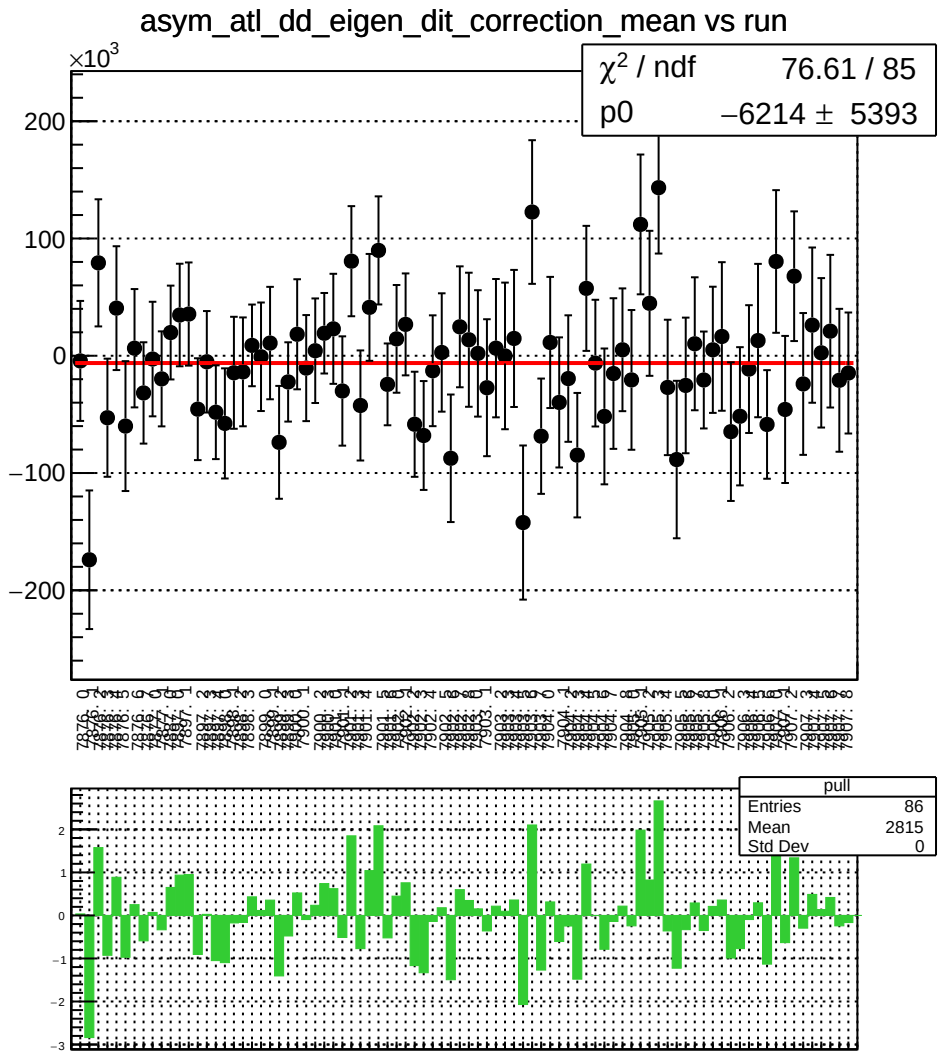

pull1D
Entries 86
Mean 0.0005839
Std Dev 0.9438
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

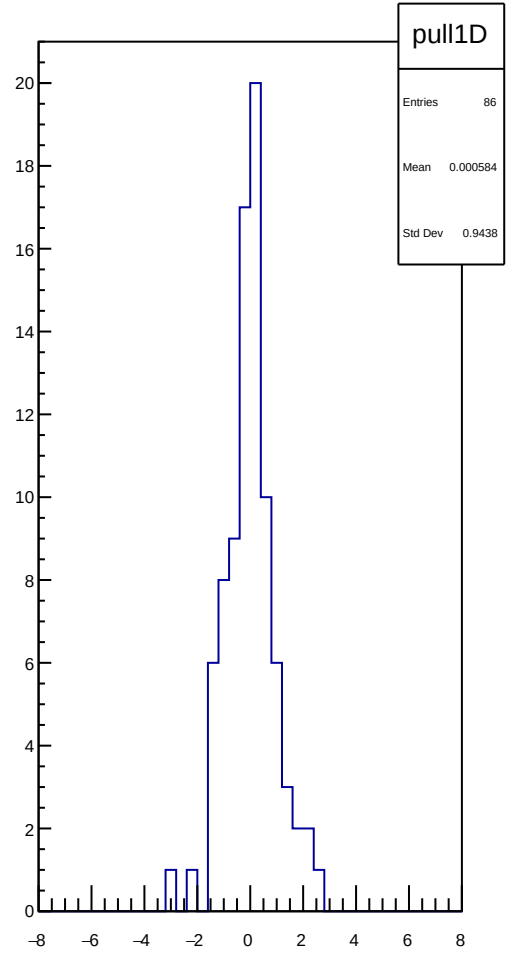

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 2.657e+04 / 85
p0 4915 ± 3.813
6500
6000
5500
5000
4500
4000

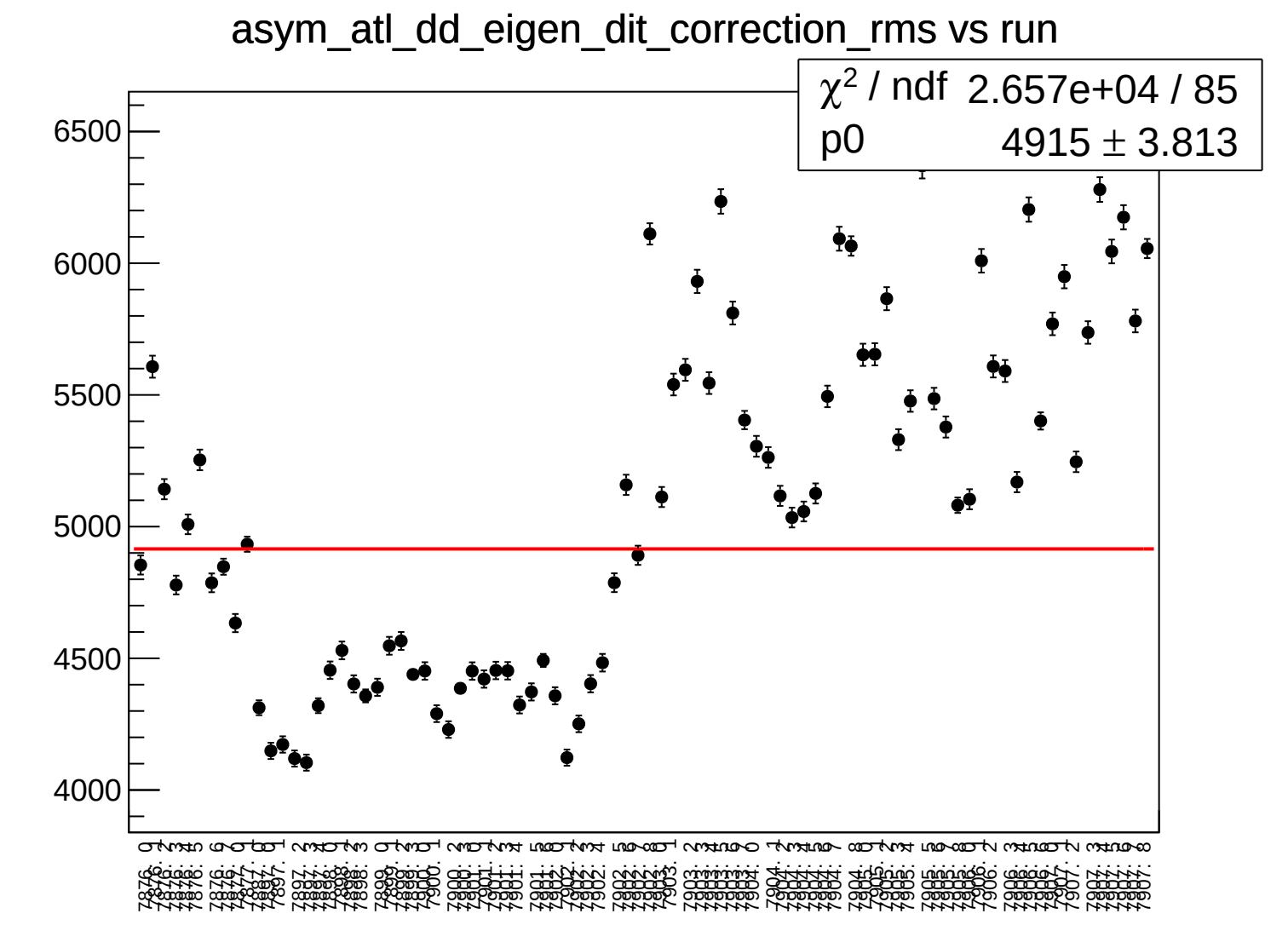

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 86.31 / 85
p0 432.9 ± 1809
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 284.3
Std Dev 0
2
1
0
−1
−2

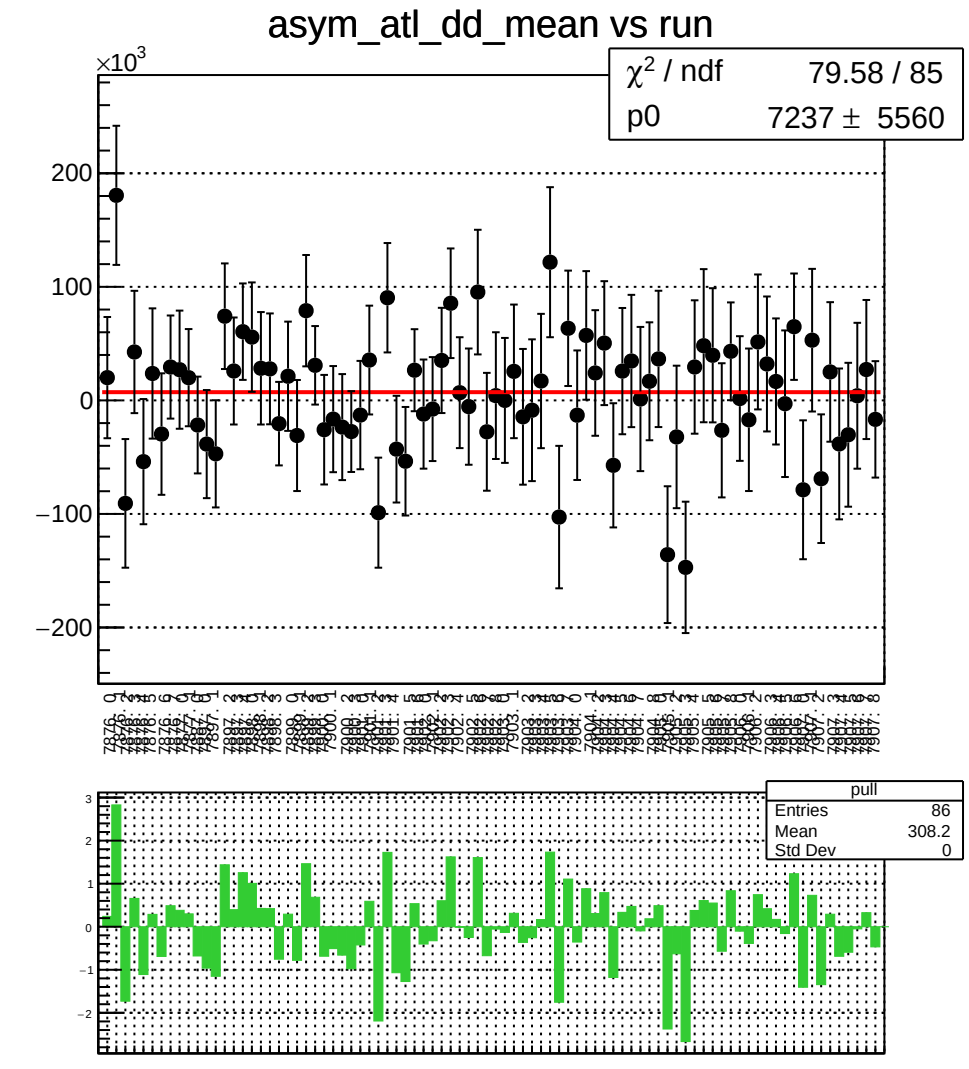

pull1D
Entries 86
Mean −0.004268
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

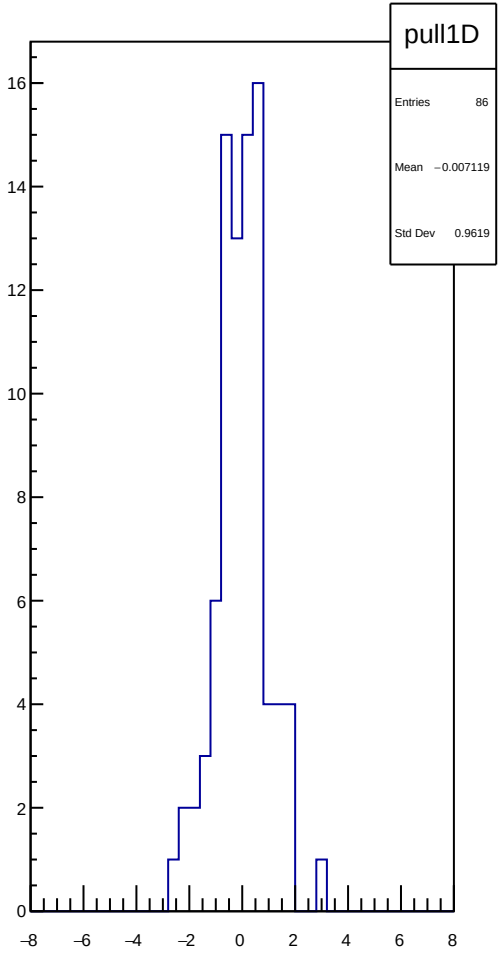

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 1219 / 85
p0 1661 ± 1.279
1800
1750
1700
1650
1600
1550

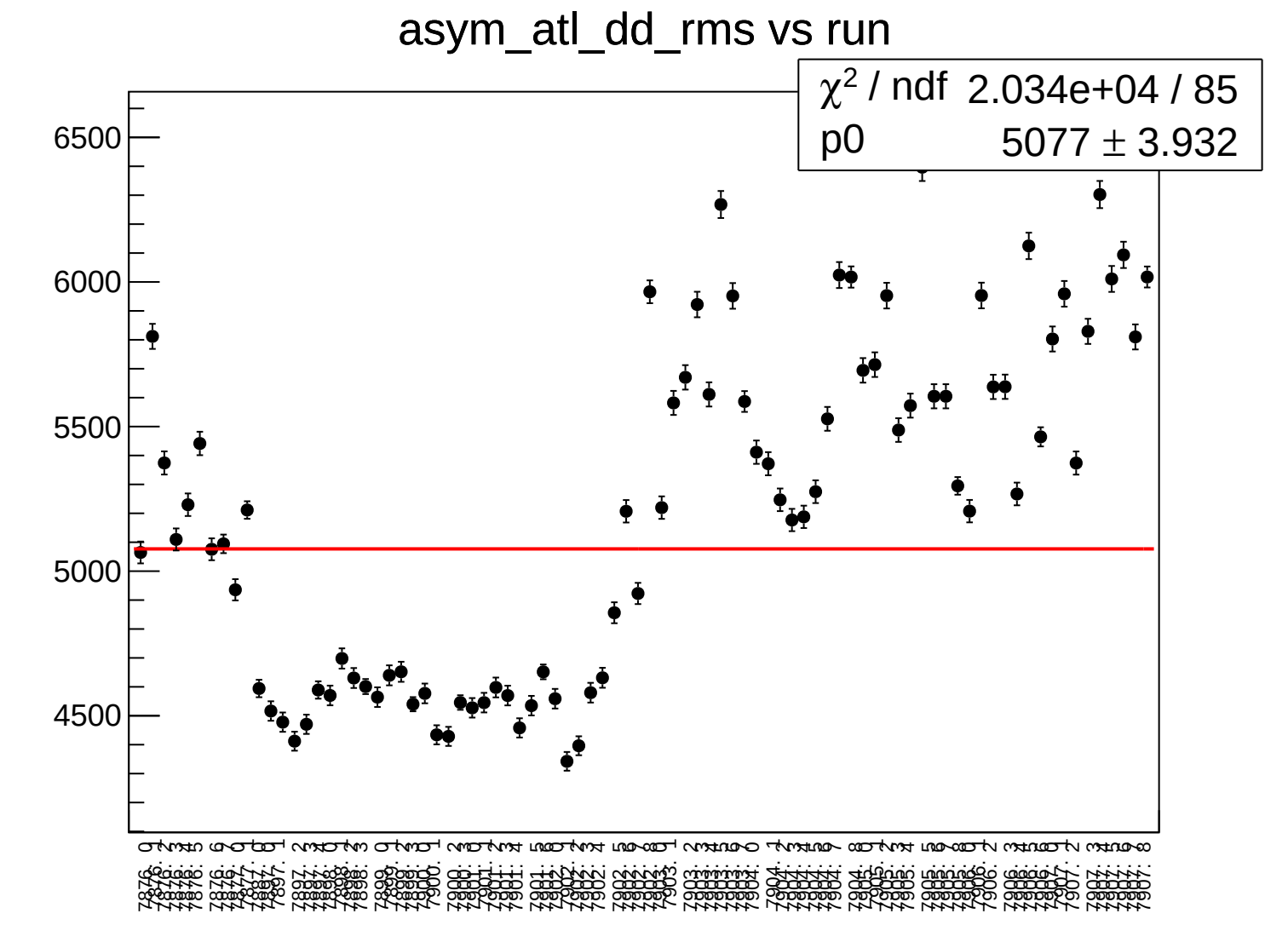

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 76.61 / 85
p0 −6214 ± 5393
200
100
0
−100
−200
pull
Entries 86
Mean 2815
Std Dev 0
2
1
0
−1
−2
−3

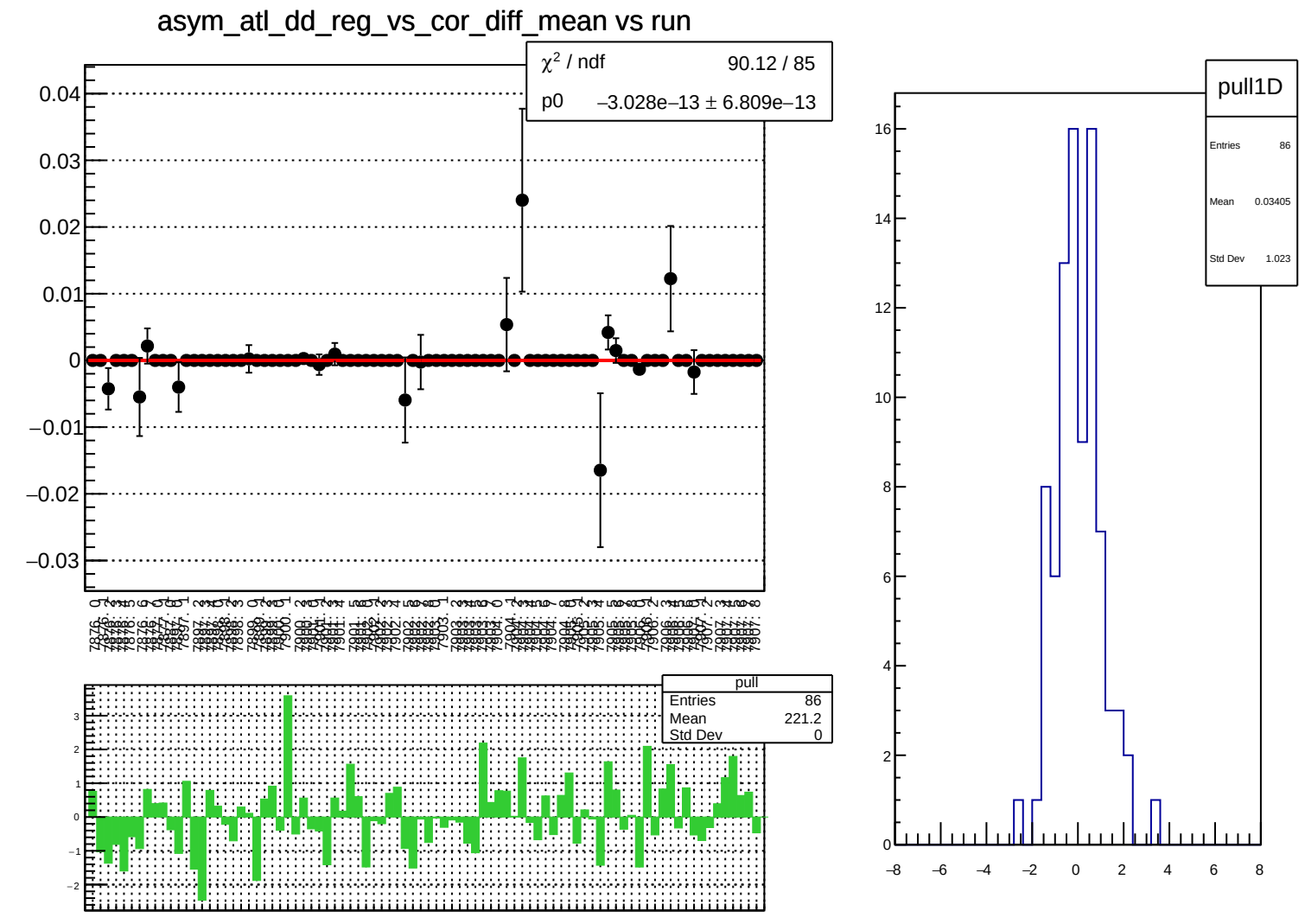

pull1D
Entries 86
Mean 0.000584
Std Dev 0.9438
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

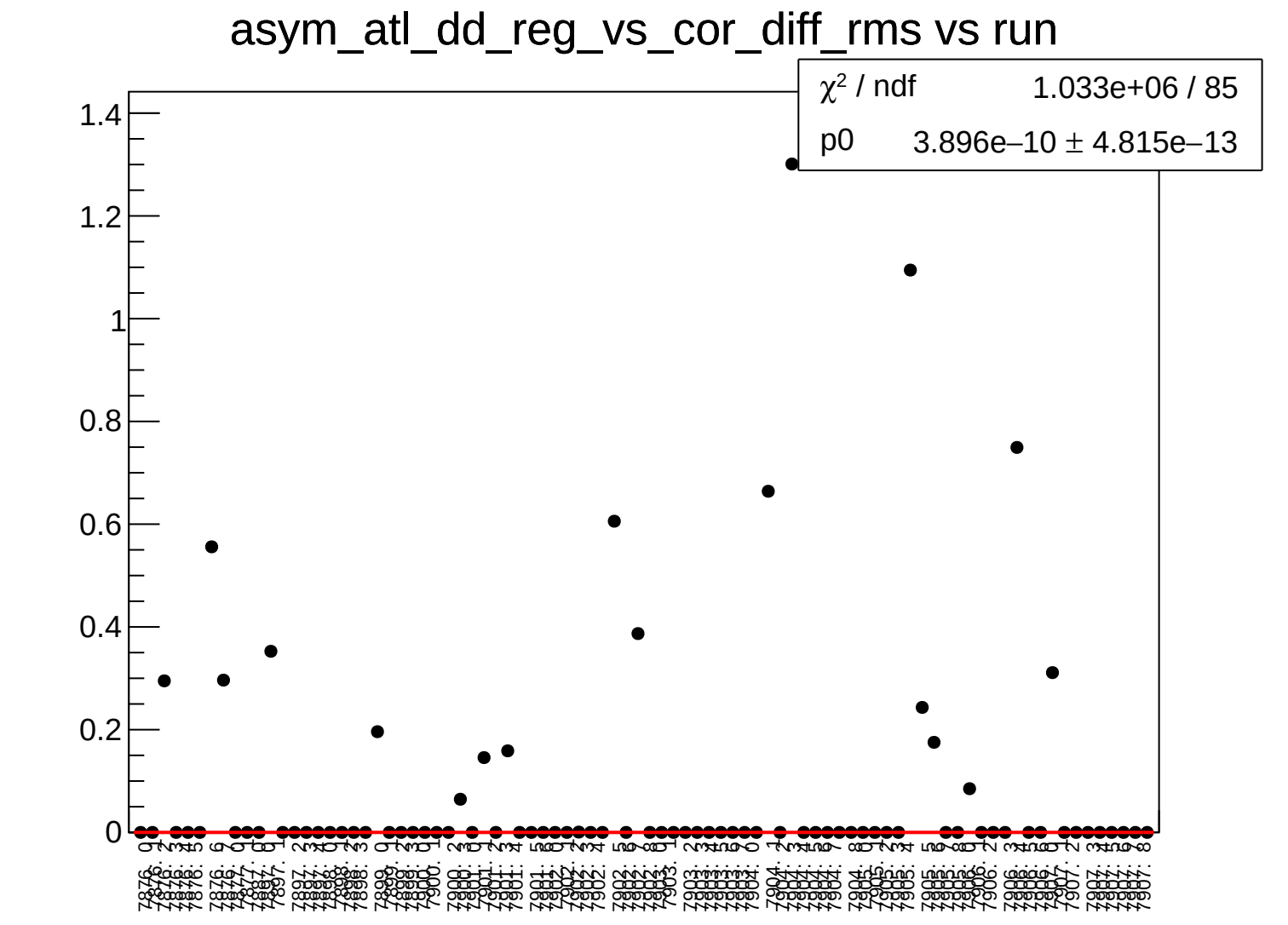

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.657e+04 / 85
p0 4915 ± 3.813
6500
6000
5500
5000
4500
4000

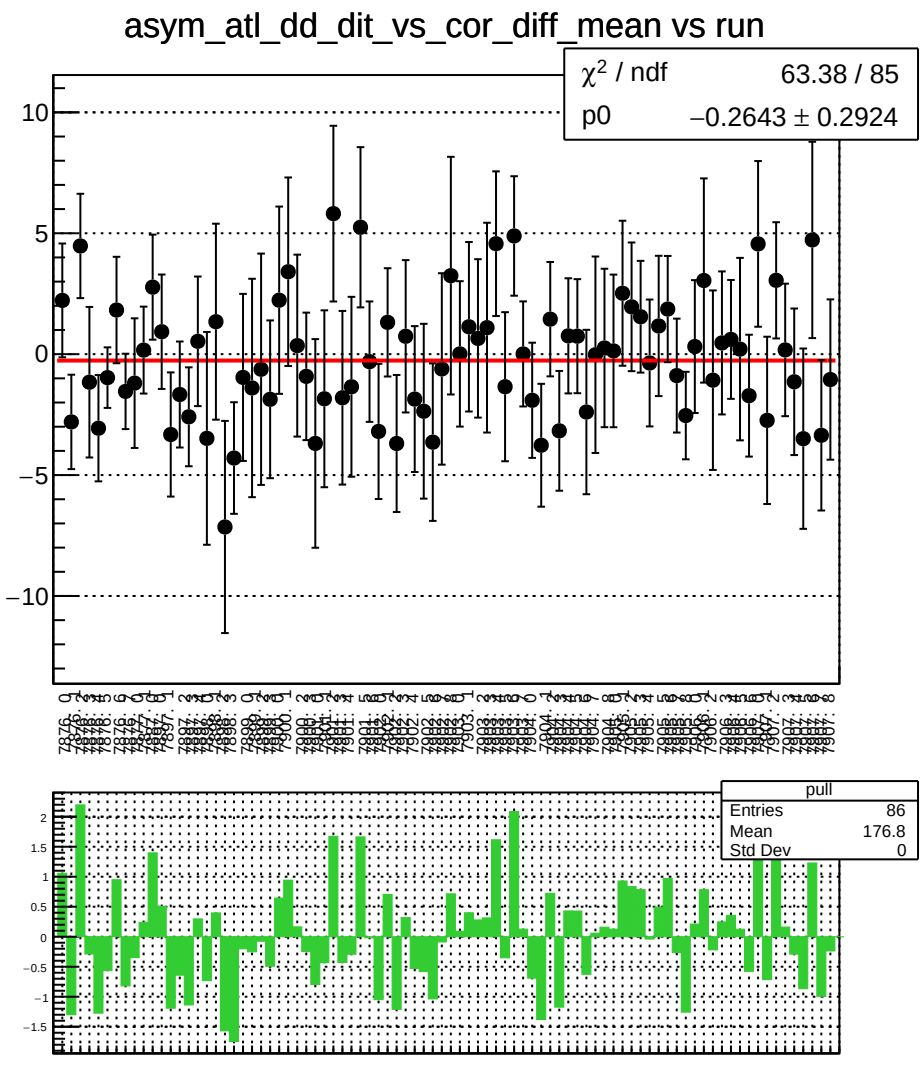

asym_atl_dd_mean vs run
×10^3
χ² / ndf 79.58 / 85
p0 7237 ± 5560
200
100
0
−100
−200
pull
Entries 86
Mean 308.2
Std Dev 0
3
2
1
0
−1
−2

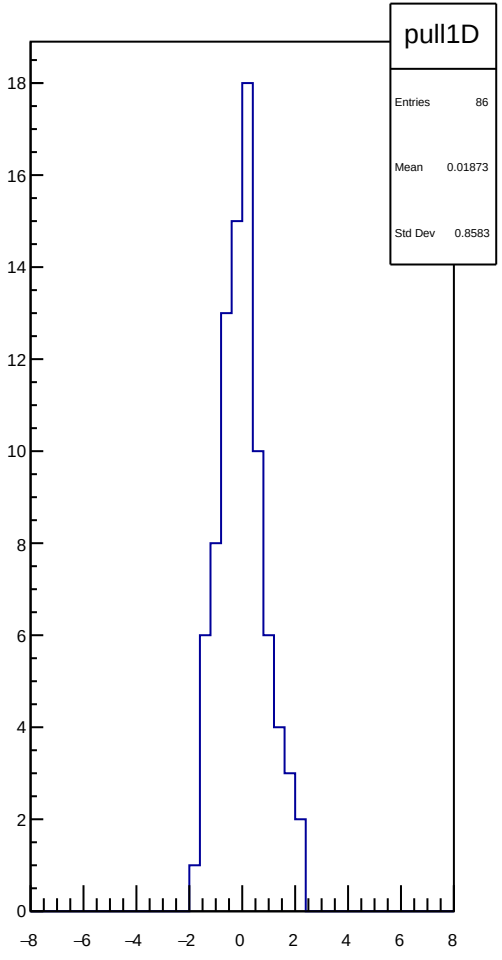

pull1D
Entries 86
Mean −0.007119
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

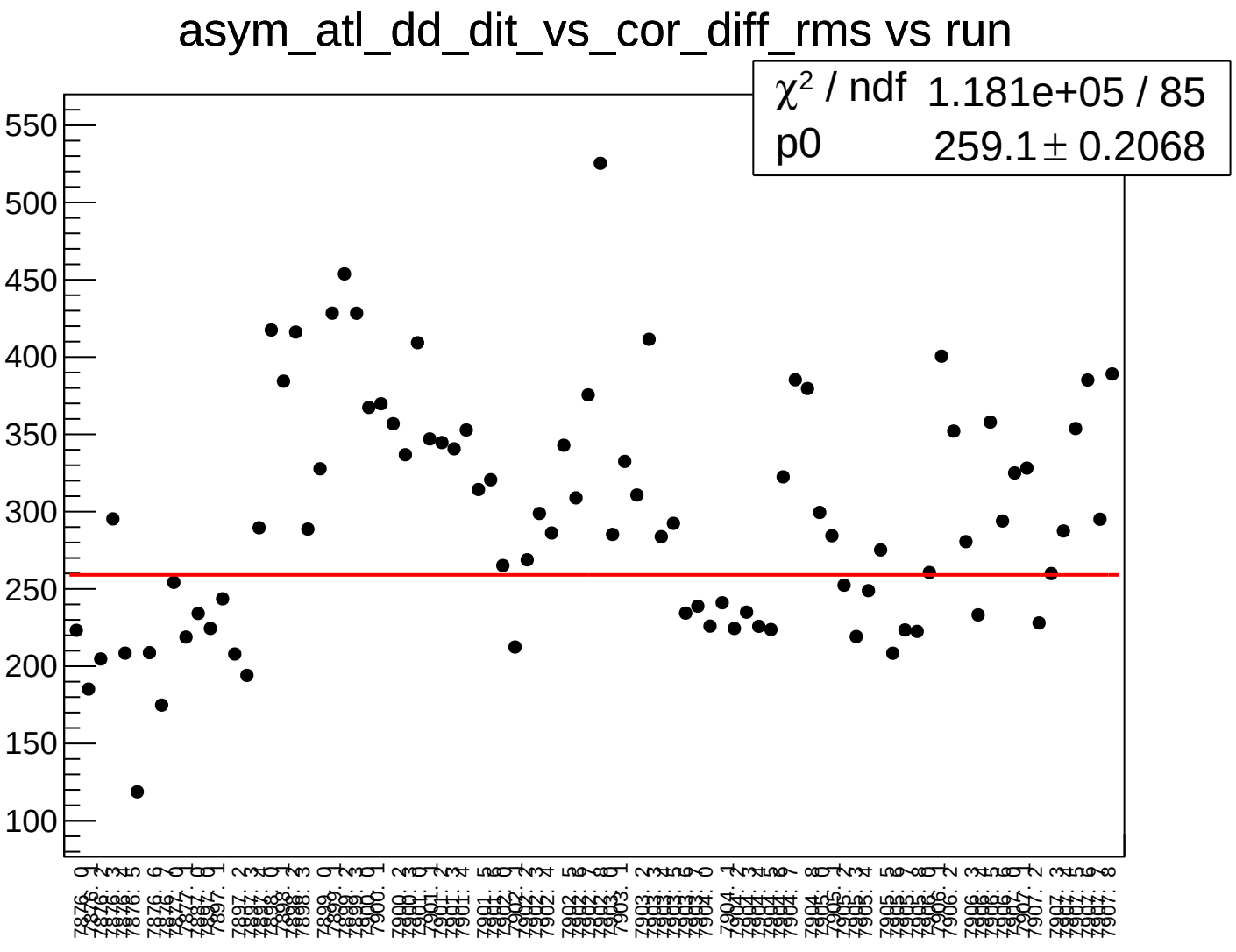

asym_atl_dd_rms vs run
χ² / ndf 2.034e+04 / 85
p0 5077 ± 3.932
6500
6000
5500
5000
4500

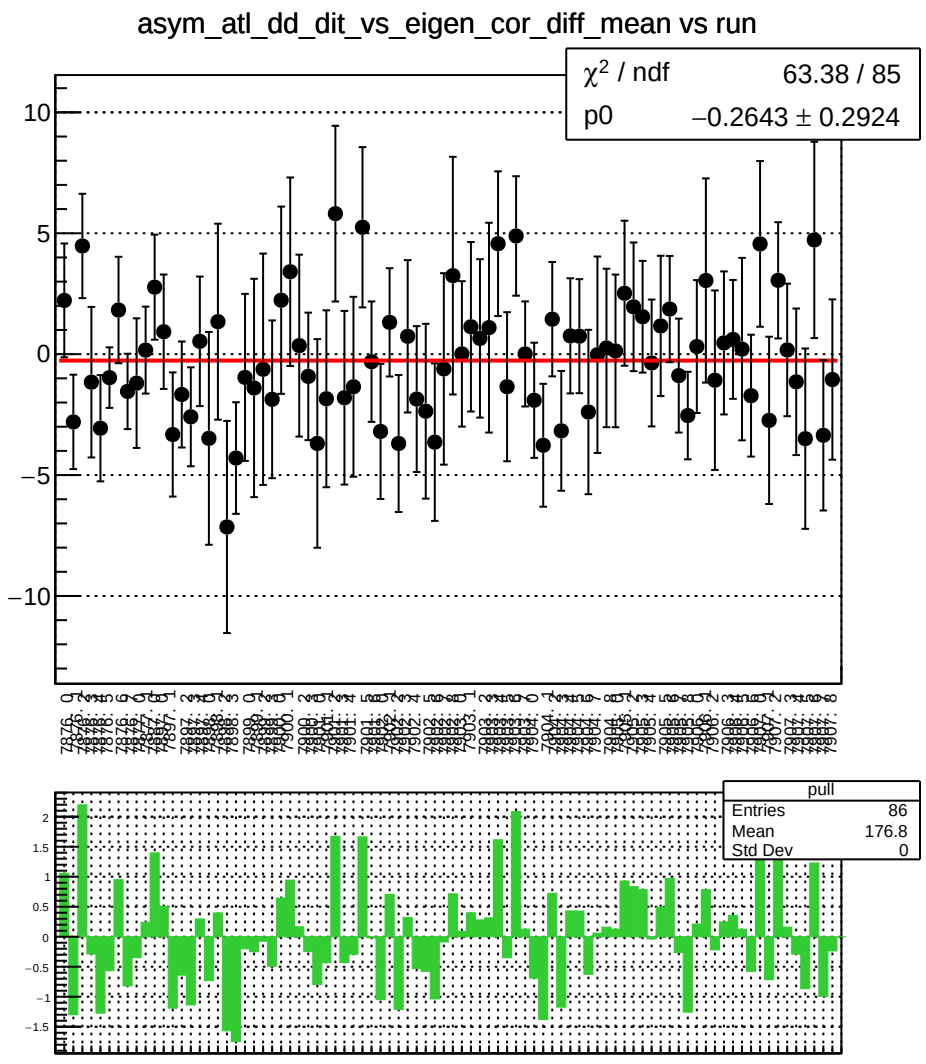

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.12 / 85
p0 −3.028e−13 ± 6.809e−13
pull
Entries 86
Mean 221.2
Std Dev 0
pull1D
Entries 86
Mean 0.03405
Std Dev 1.023

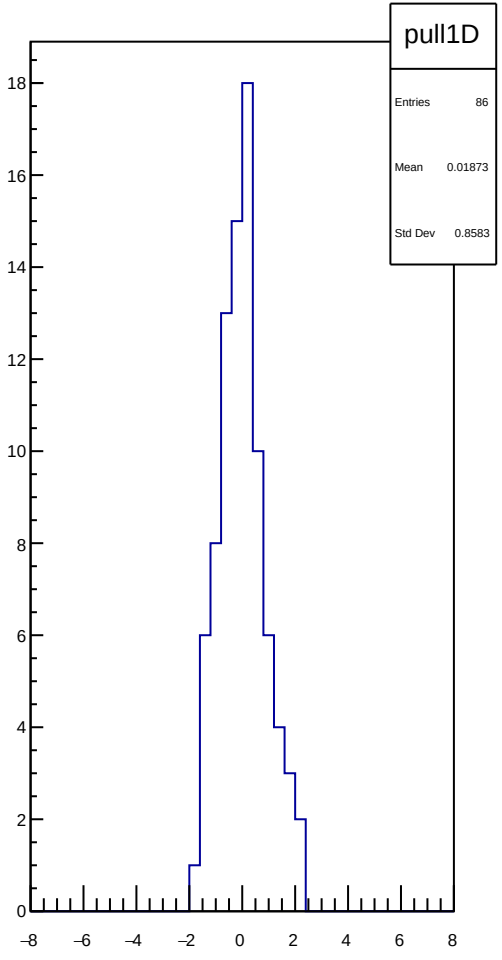

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 85
p0 3.896e−10 ± 4.815e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

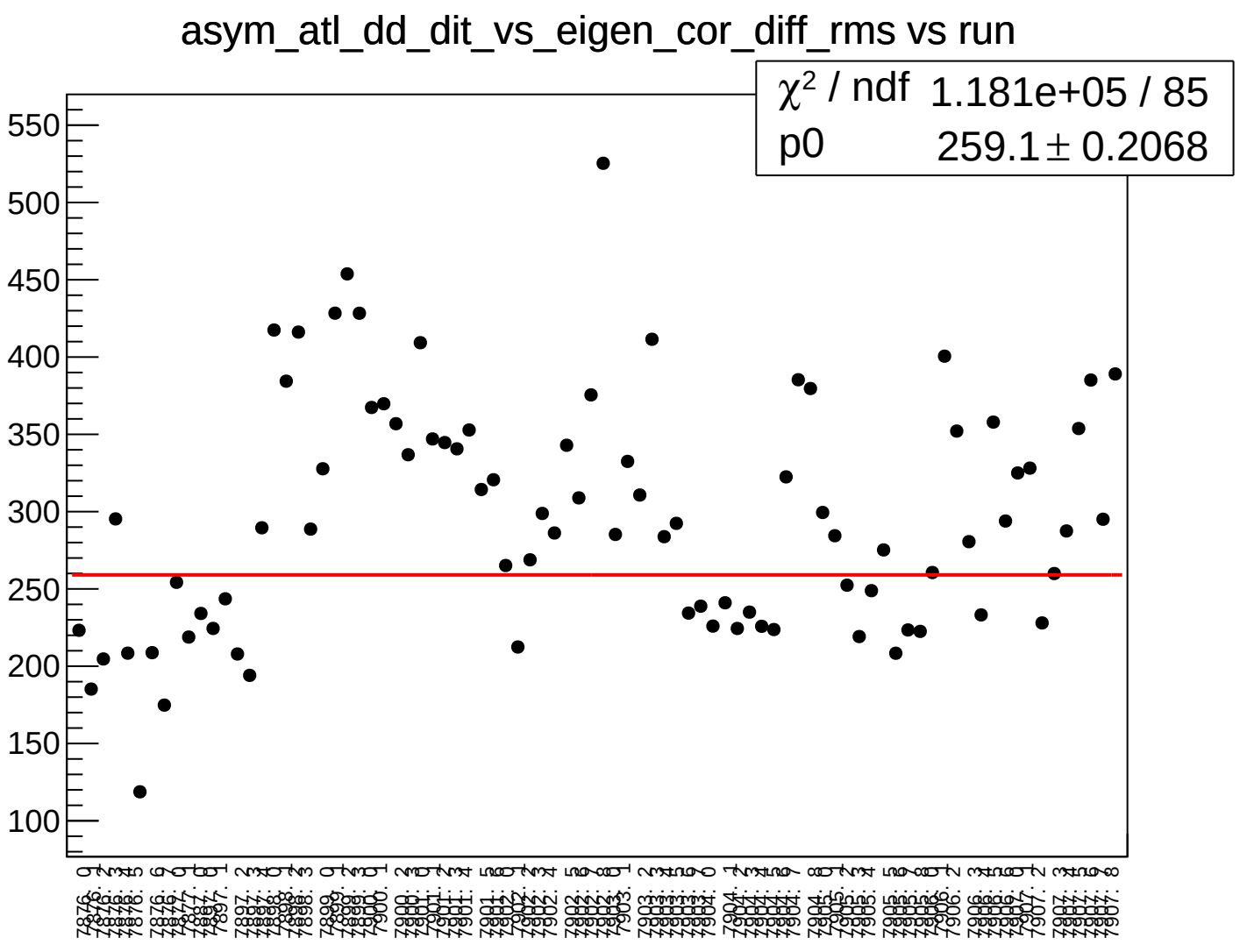

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 63.38 / 85
p0 −0.2643 ± 0.2924
pull
Entries 86
Mean 176.8
Std Dev 0

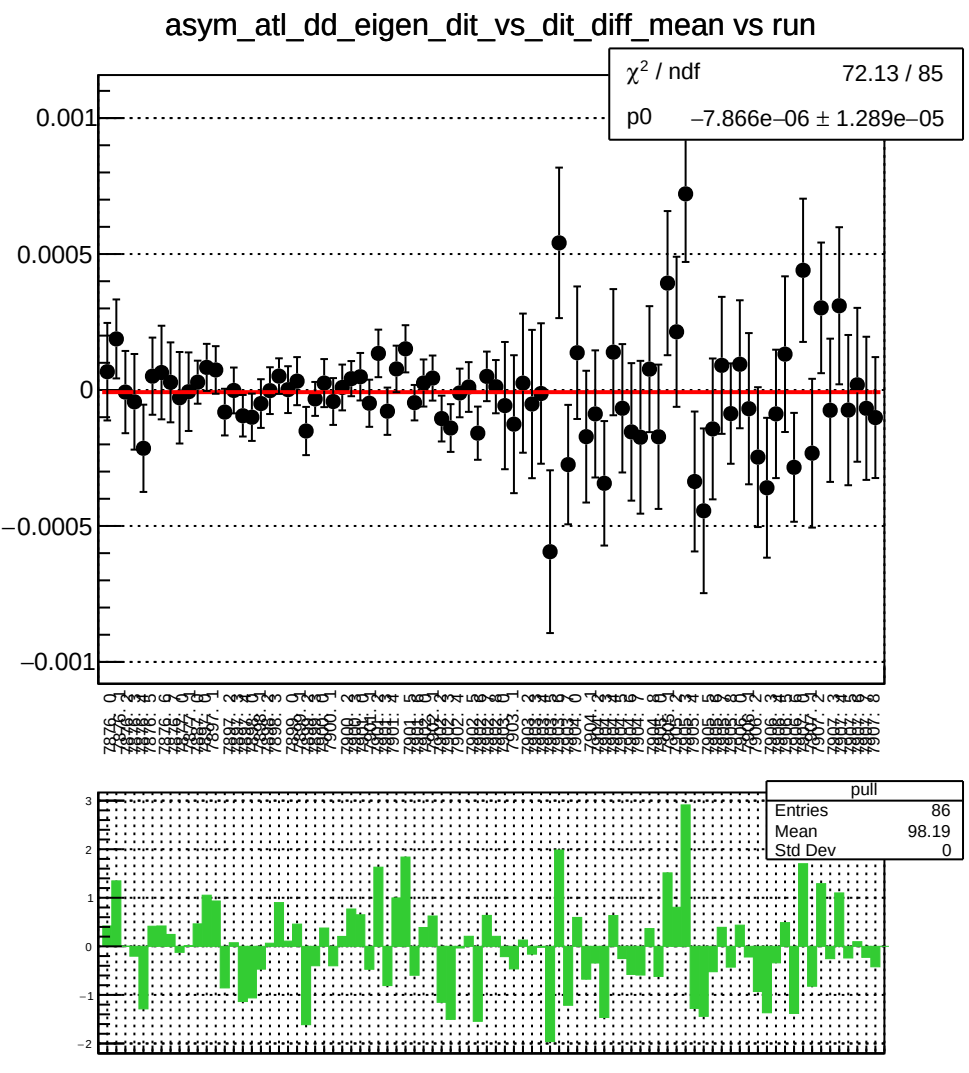

pull1D
Entries 86
Mean 0.01873
Std Dev 0.8583

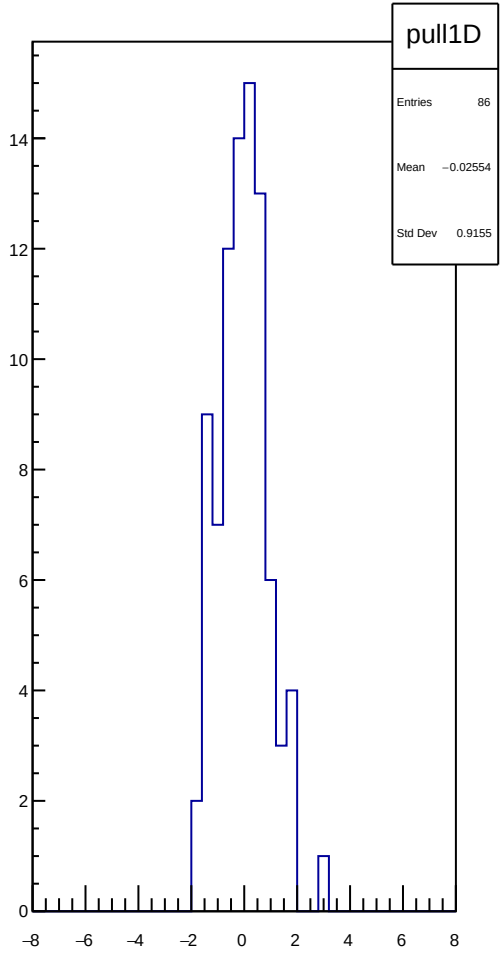

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.181e+05 / 85
p0 259.1 ± 0.2068
550
500
450
400
350
300
250
200
150
100

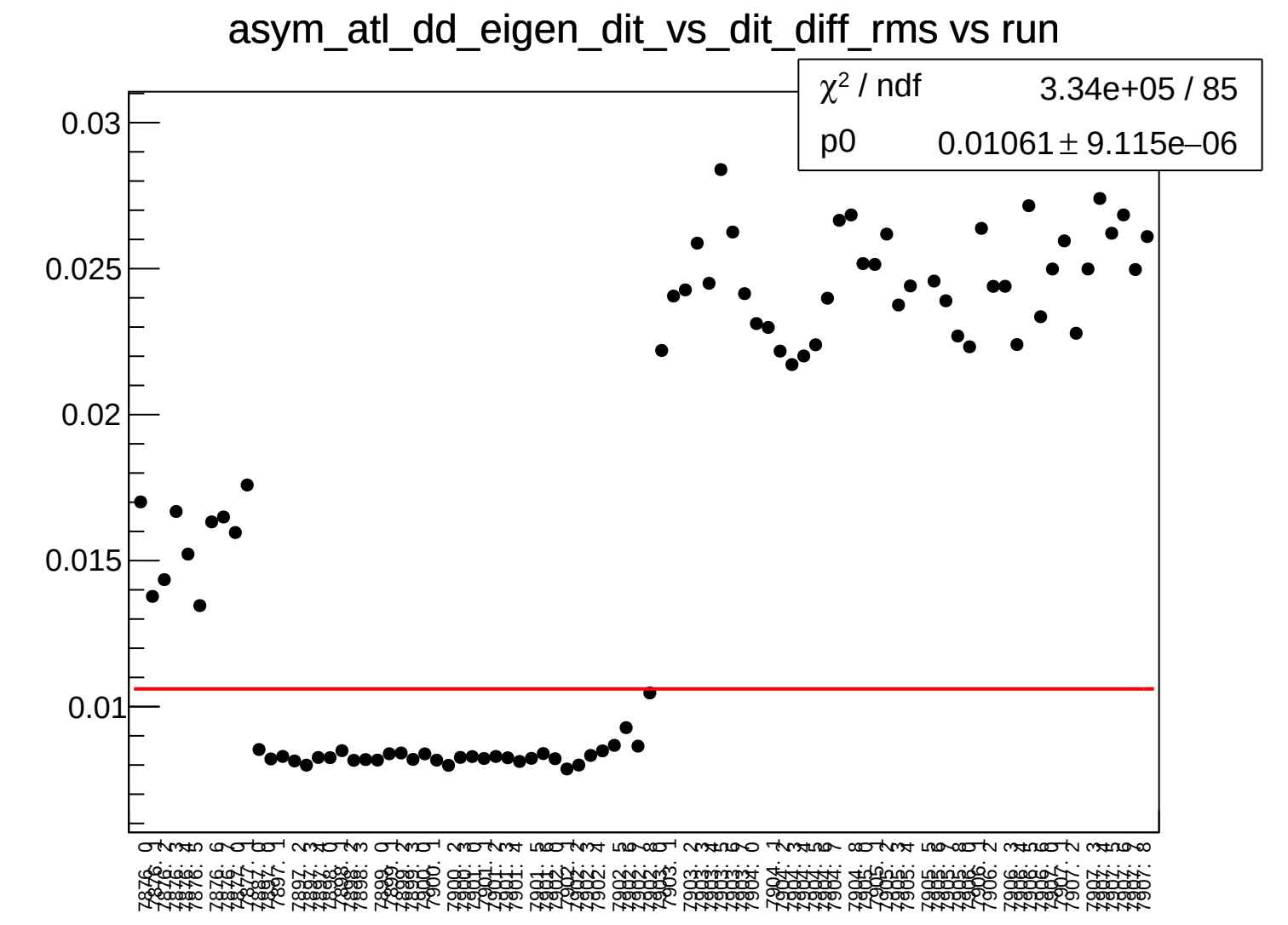

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.38 / 85
p0 −0.2643 ± 0.2924
pull
Entries 86
Mean 176.8
Std Dev 0

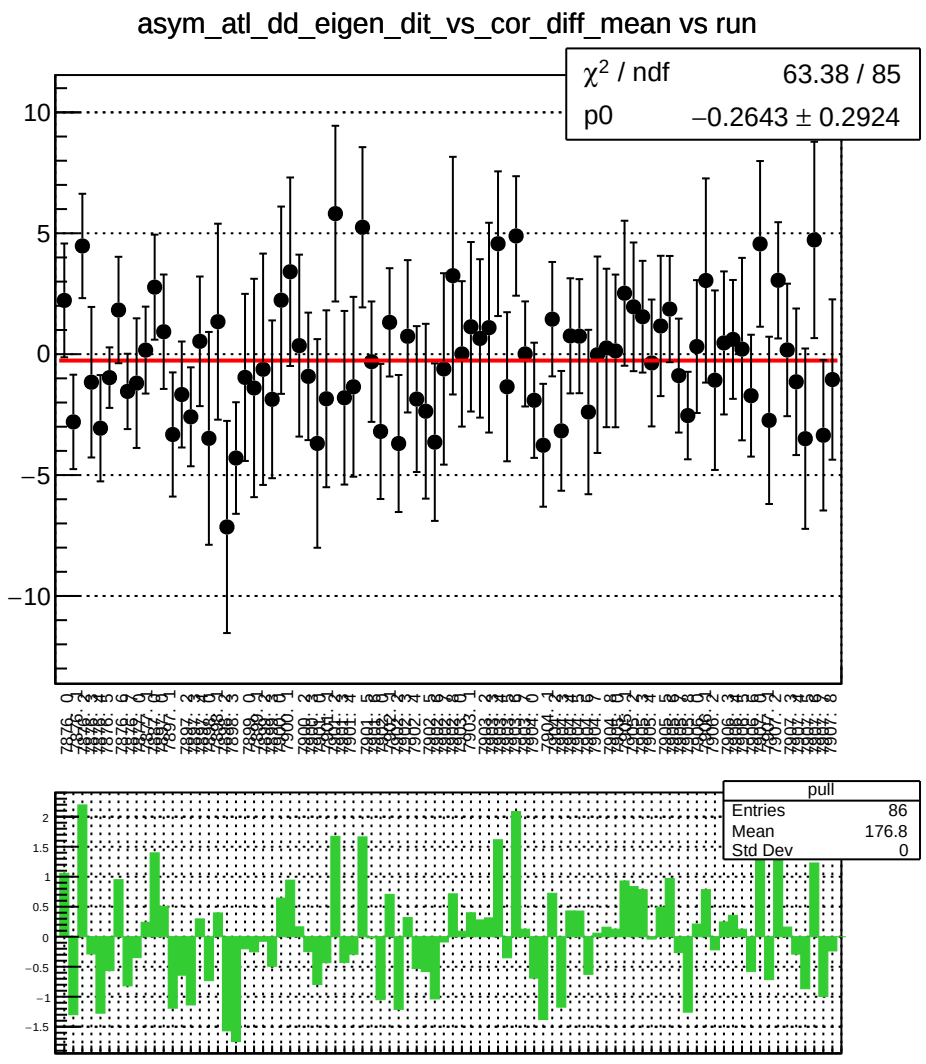

pull1D
Entries 86
Mean 0.01873
Std Dev 0.8583

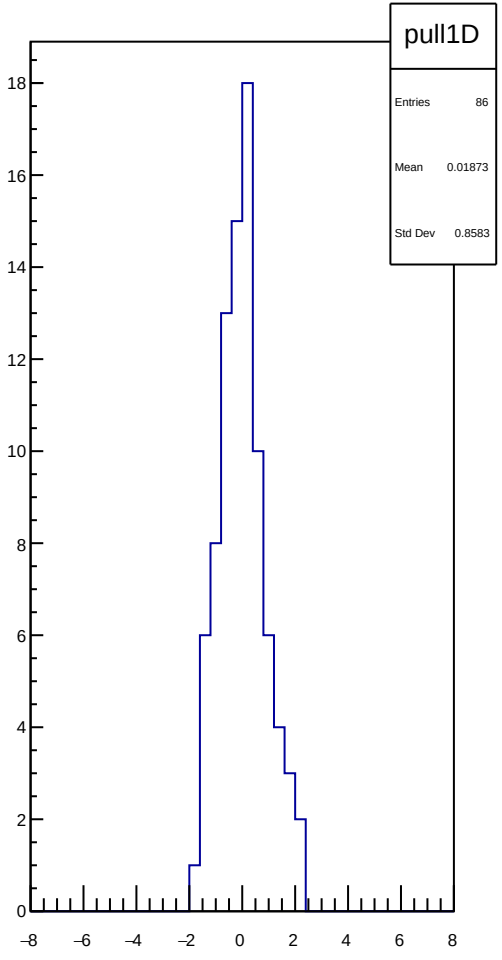

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.181e+05 / 85
p0 259.1 ± 0.2068
550
500
450
400
350
300
250
200
150
100

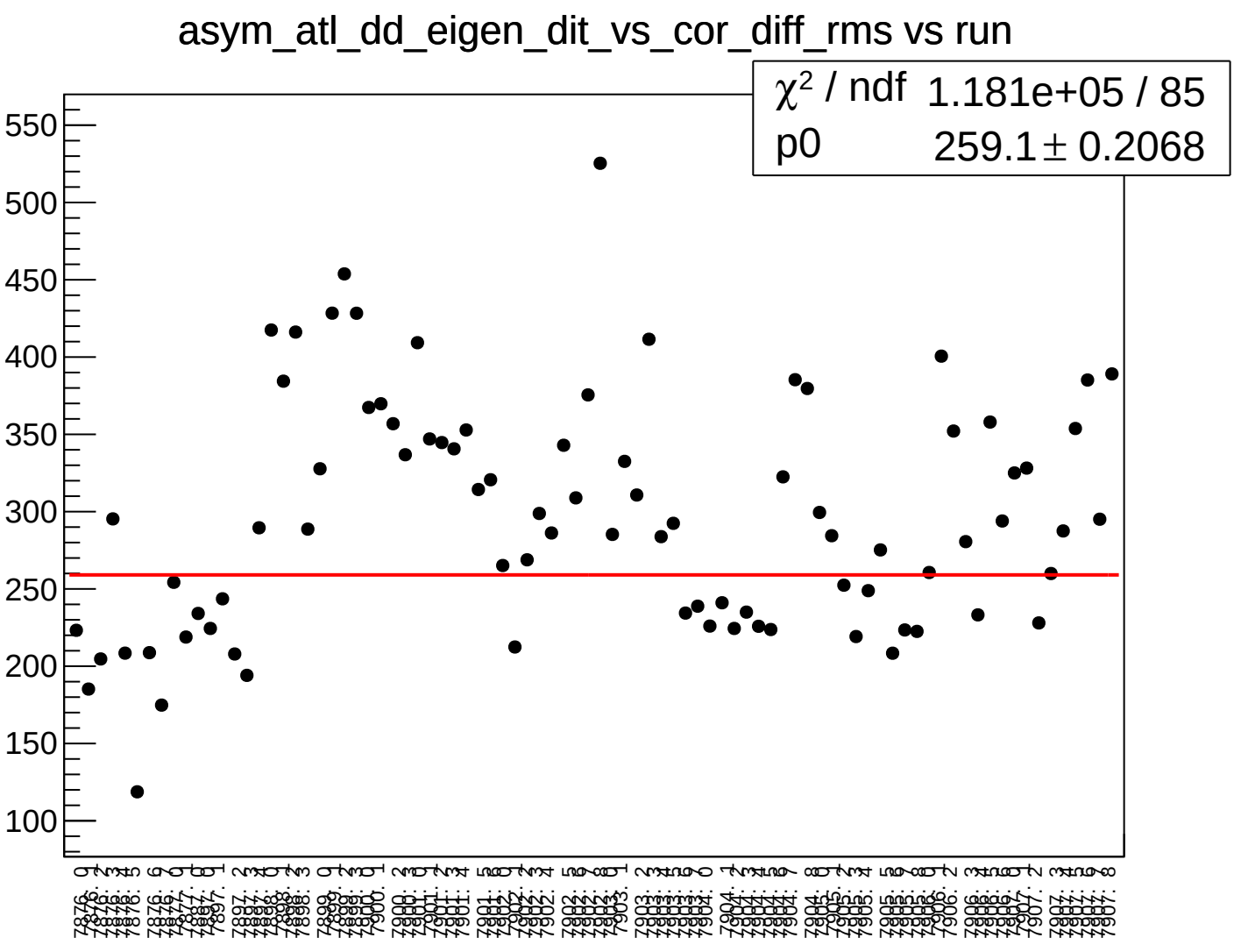

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.13 / 85
p0 −7.866e−06 ± 1.289e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 98.19
Std Dev 0

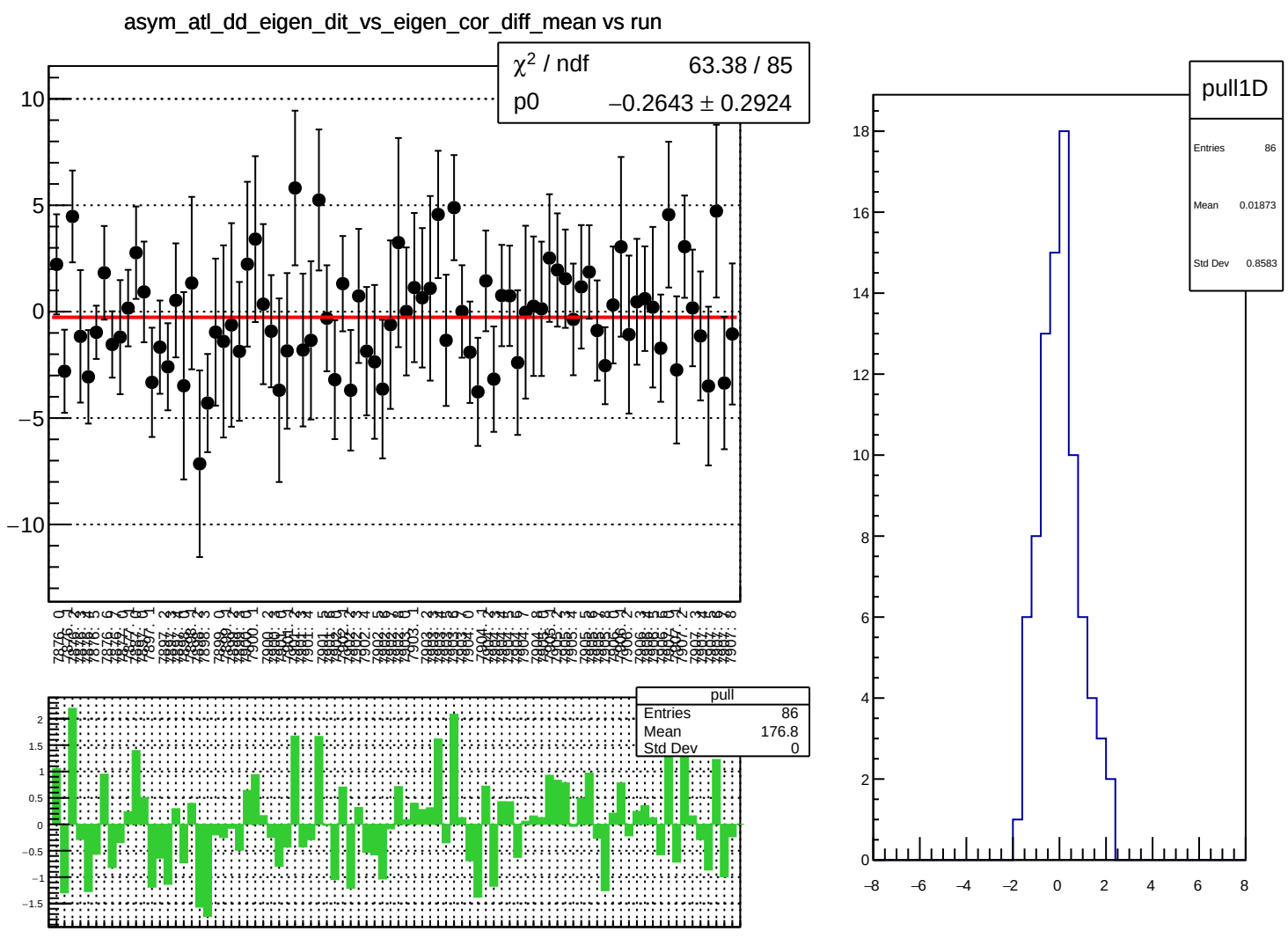

pull1D
Entries 86
Mean −0.02554
Std Dev 0.9155

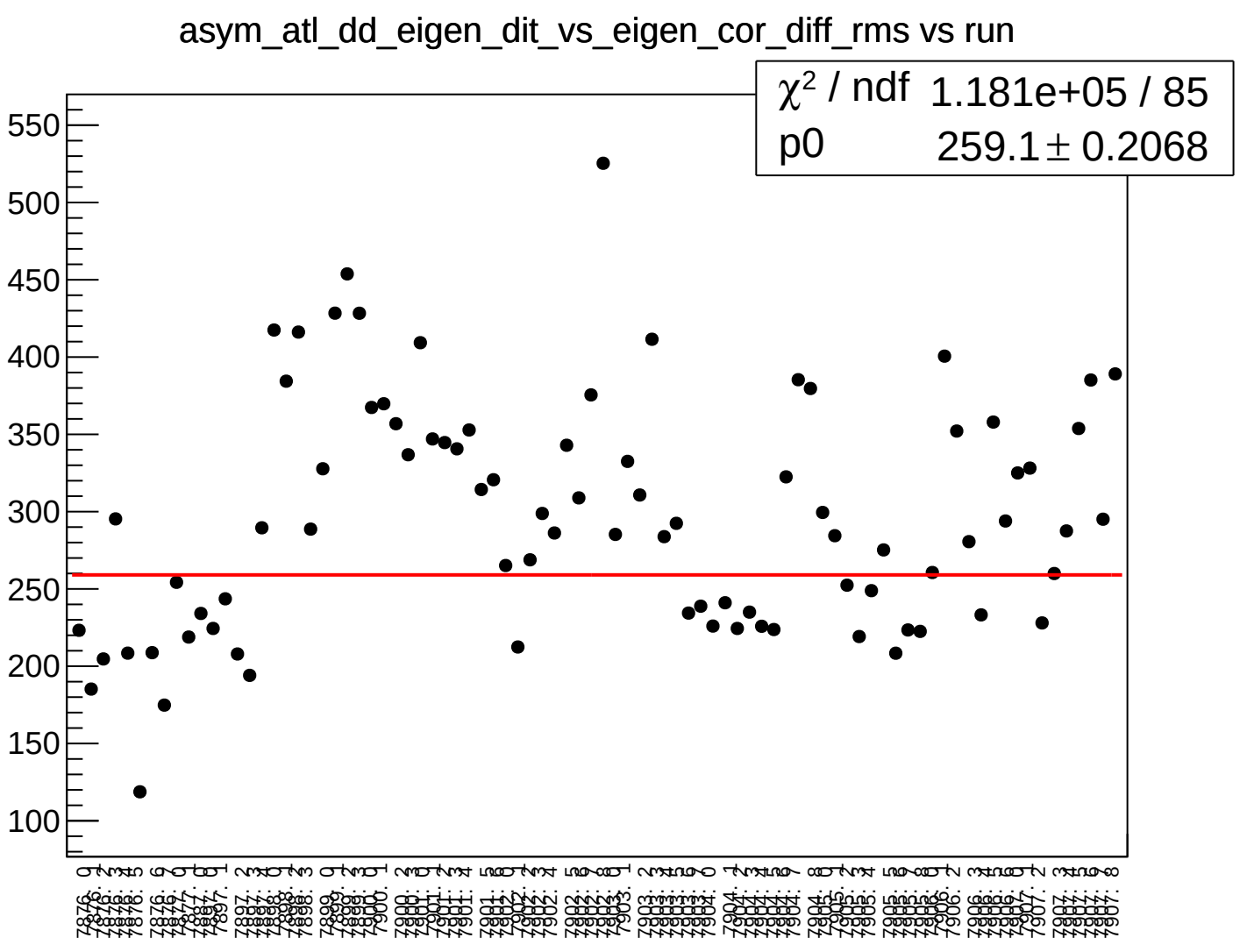

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.34e+05 / 85
p0 0.01061 ± 9.115e−06
0.03
0.025
0.02
0.015
0.01

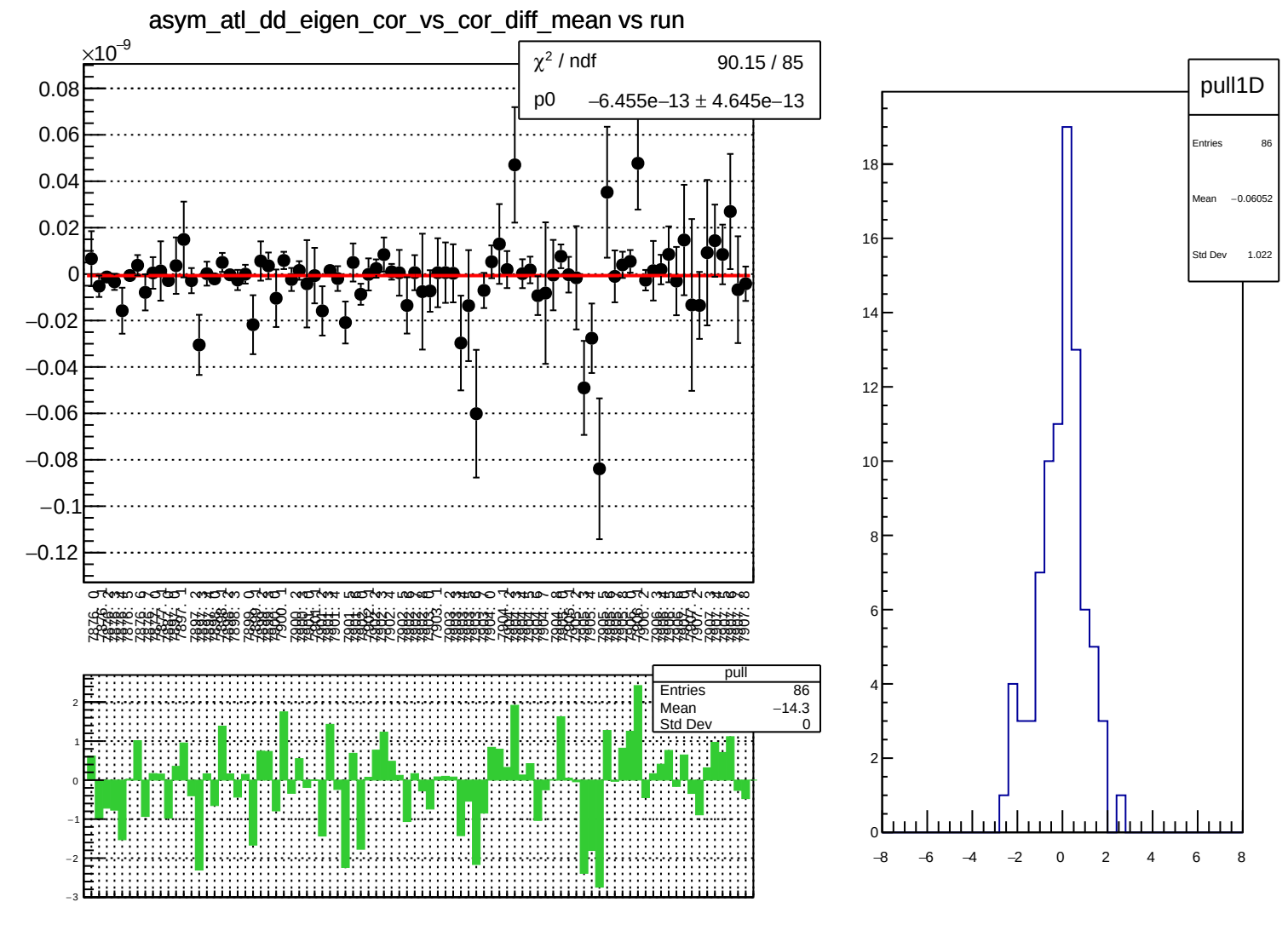

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.38 / 85
p0 −0.2643 ± 0.2924
pull
Entries 86
Mean 176.8
Std Dev 0

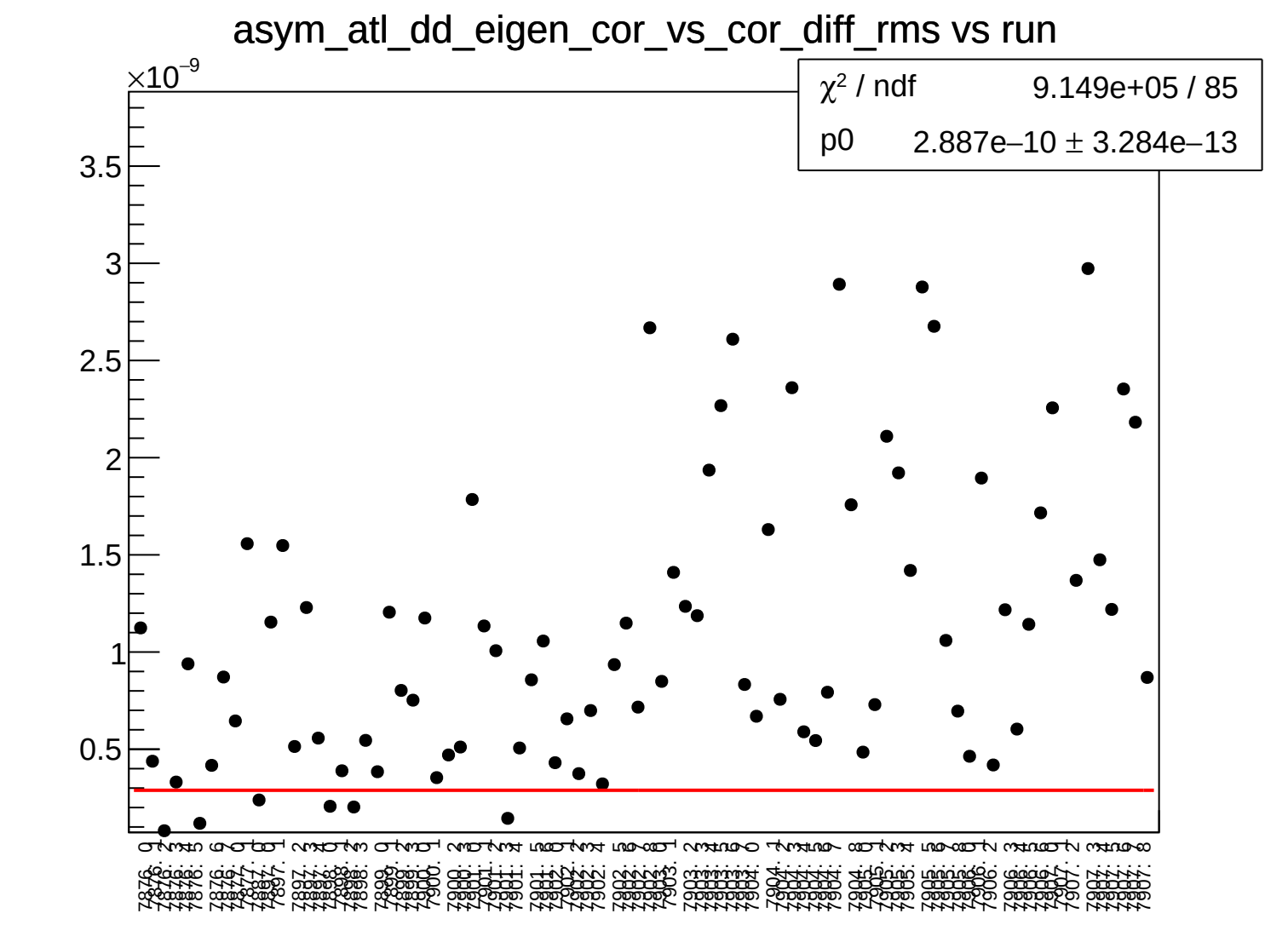

pull1D
Entries 86
Mean 0.01873
Std Dev 0.8583

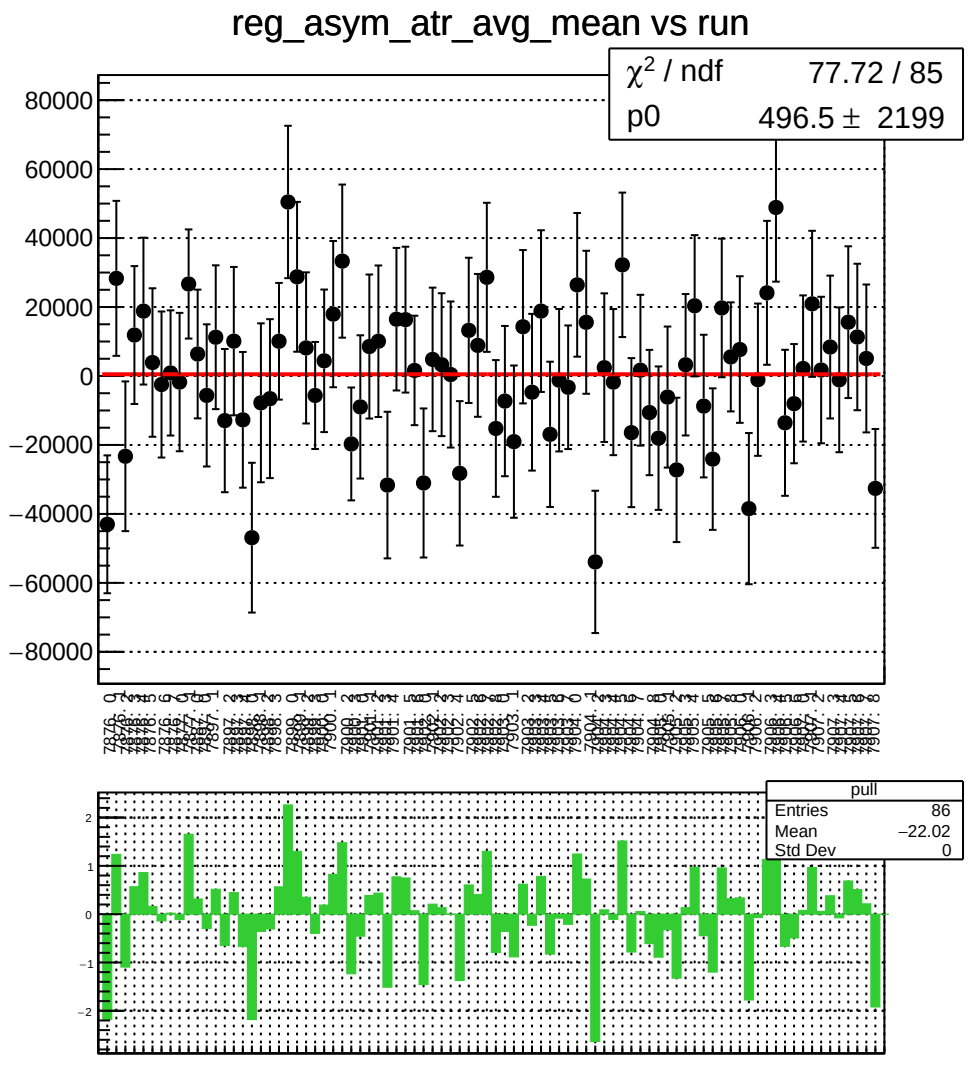

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.181e+05 / 85
p0 259.1 ± 0.2068
550
500
450
400
350
300
250
200
150
100

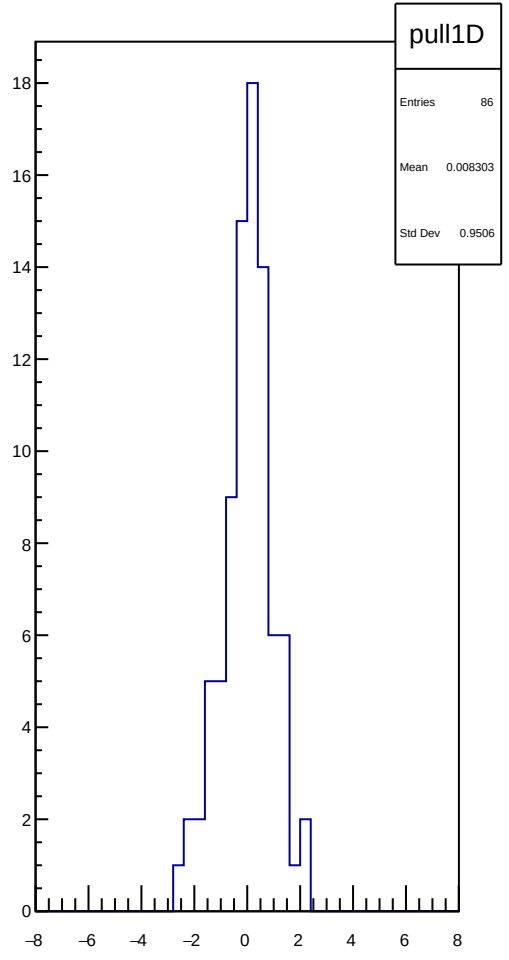

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.38 / 85
p0 −0.2643 ± 0.2924
pull
Entries 86
Mean 176.8
Std Dev 0
pull1D
Entries 86
Mean 0.01873
Std Dev 0.8583

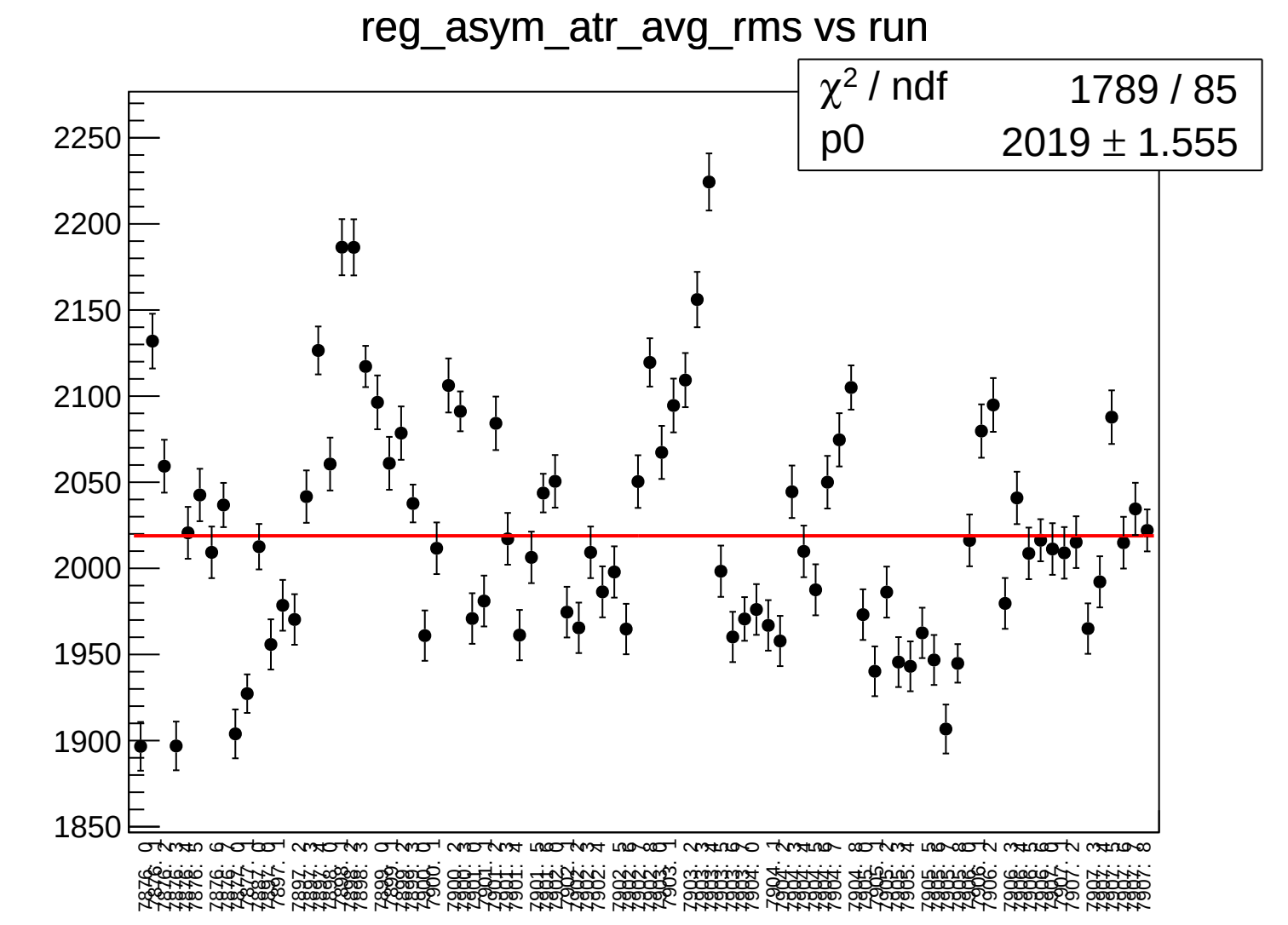

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.181e+05 / 85
p0 259.1 ± 0.2068
550
500
450
400
350
300
250
200
150
100

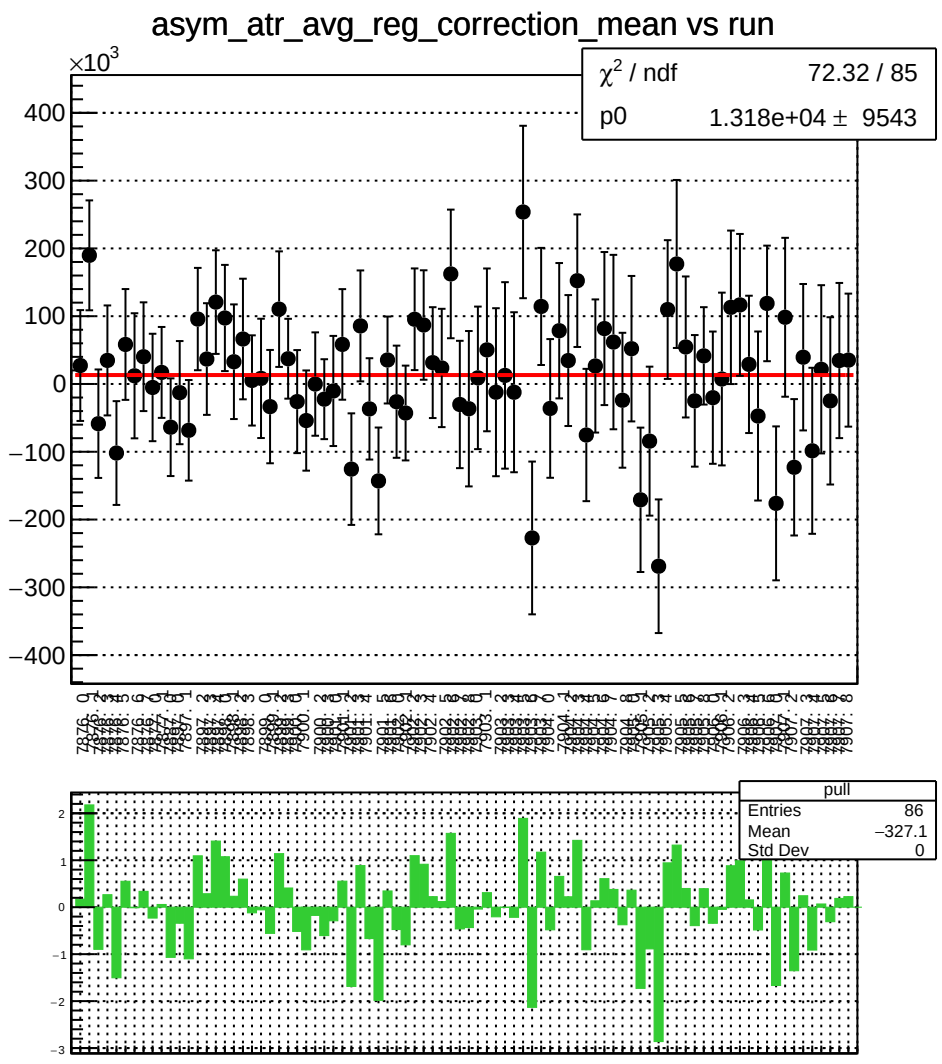

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 90.15 / 85
p0 −6.455e−13 ± 4.645e−13
pull
Entries 86
Mean −14.3
Std Dev 0
pull1D
Entries 86
Mean −0.06052
Std Dev 1.022

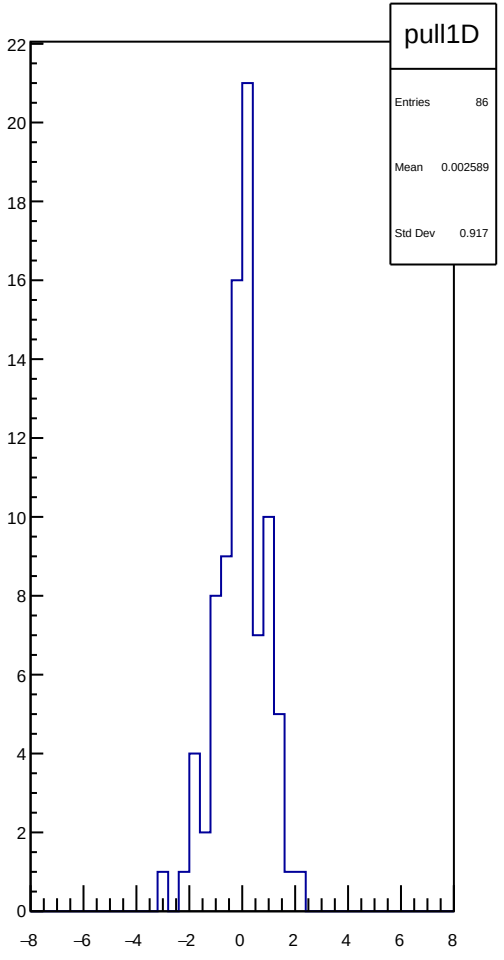

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.149e+05 / 85
p0 2.887e−10 ± 3.284e−13
3.5
3
2.5
2
1.5
1
0.5

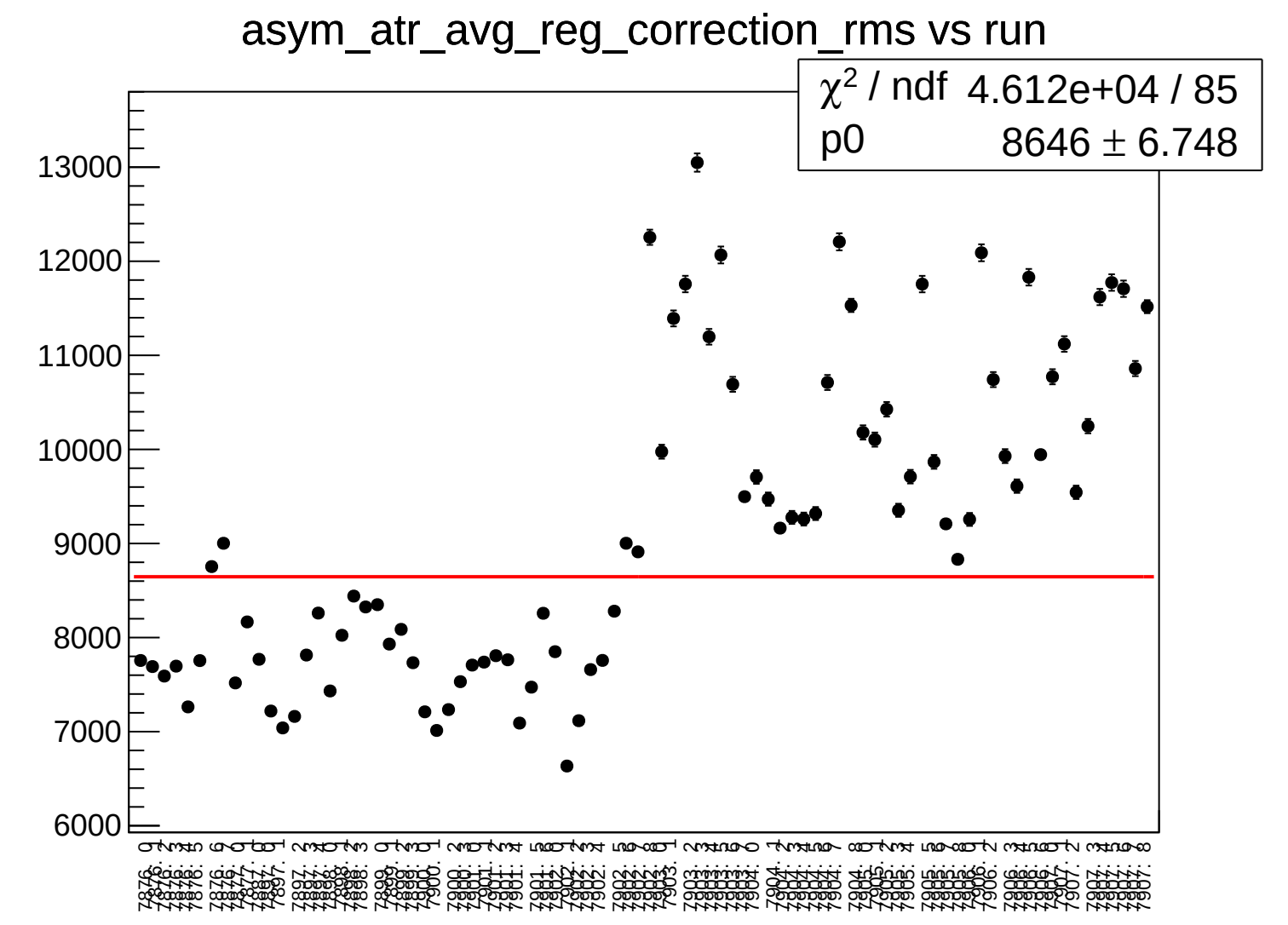

reg_asym_atr_avg_mean vs run
χ² / ndf 77.72 / 85
p0 496.5 ± 2199
pull
Entries 86
Mean −22.02
Std Dev 0

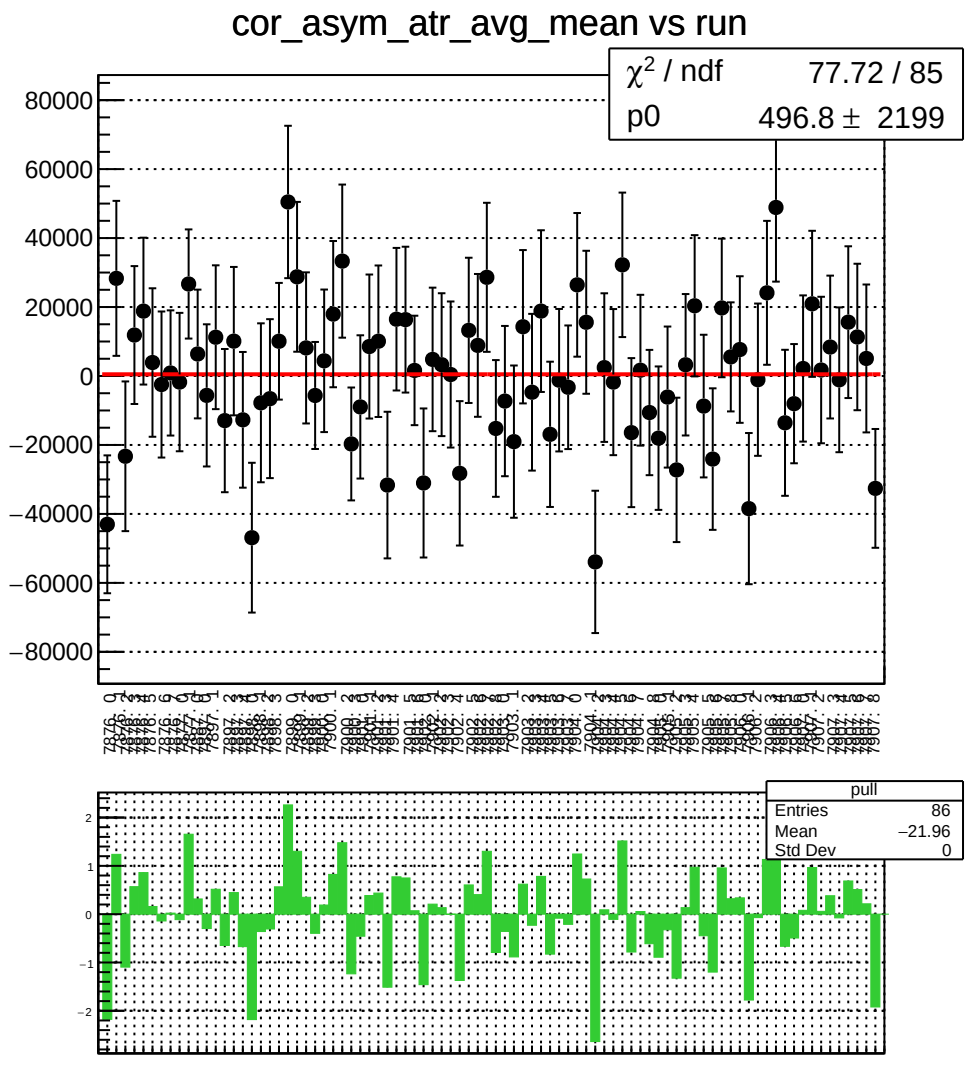

pull1D
Entries 86
Mean 0.008303
Std Dev 0.9506

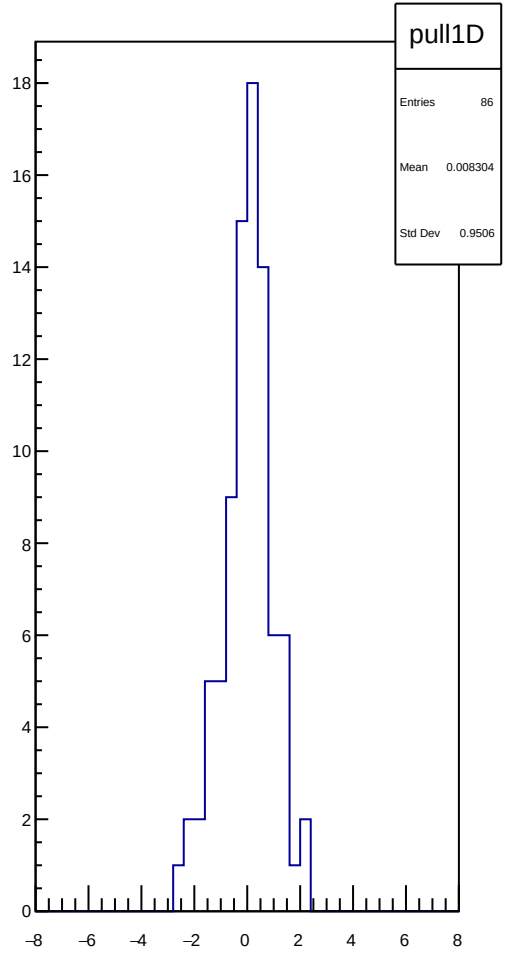

reg_asym_atr_avg_rms vs run
χ² / ndf 1789 / 85
p0 2019 ± 1.555
2250
2200
2150
2100
2050
2000
1950
1900
1850

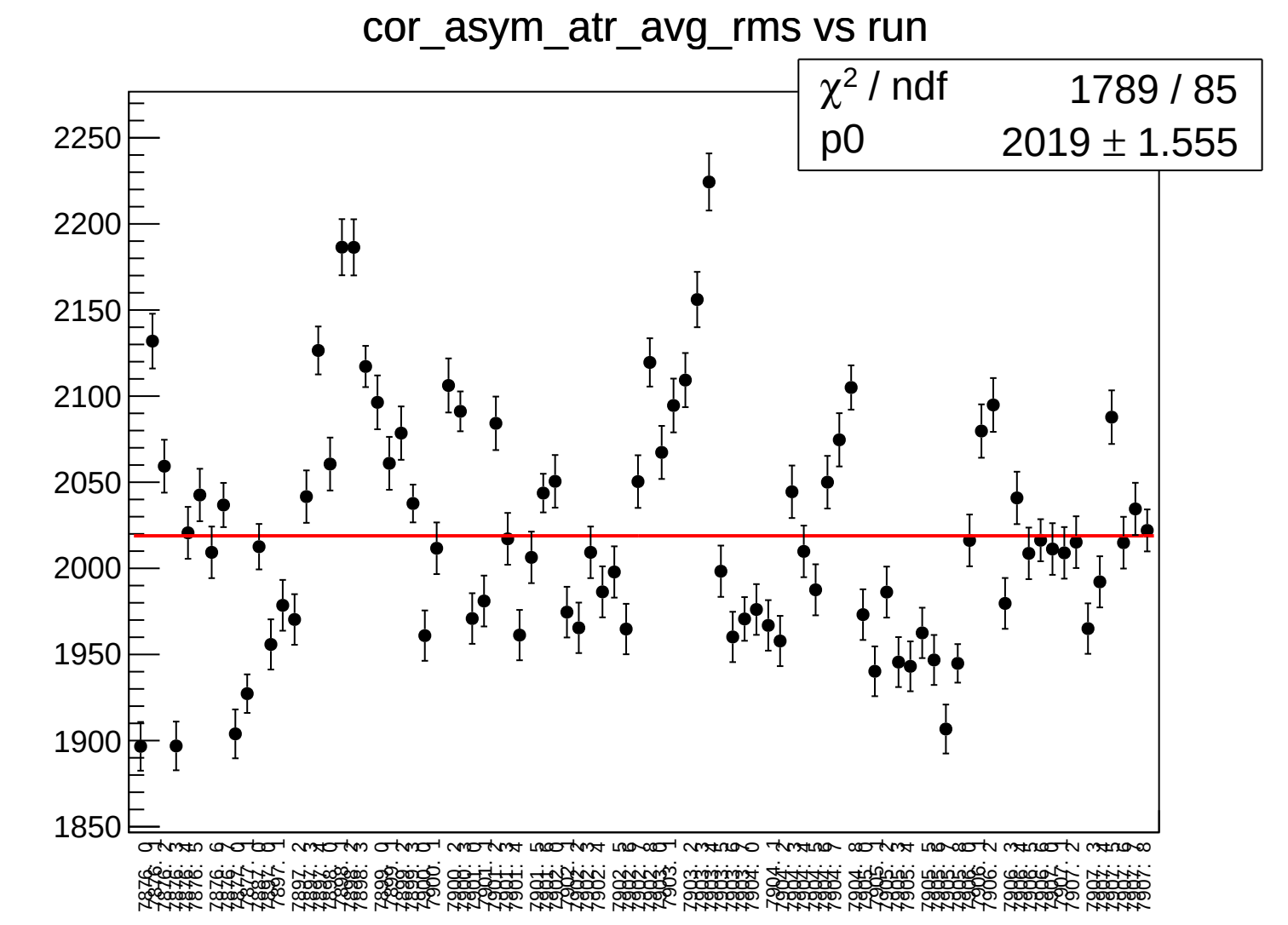

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.32 / 85
p0 1.318e+04 ± 9543
pull
Entries 86
Mean −327.1
Std Dev 0

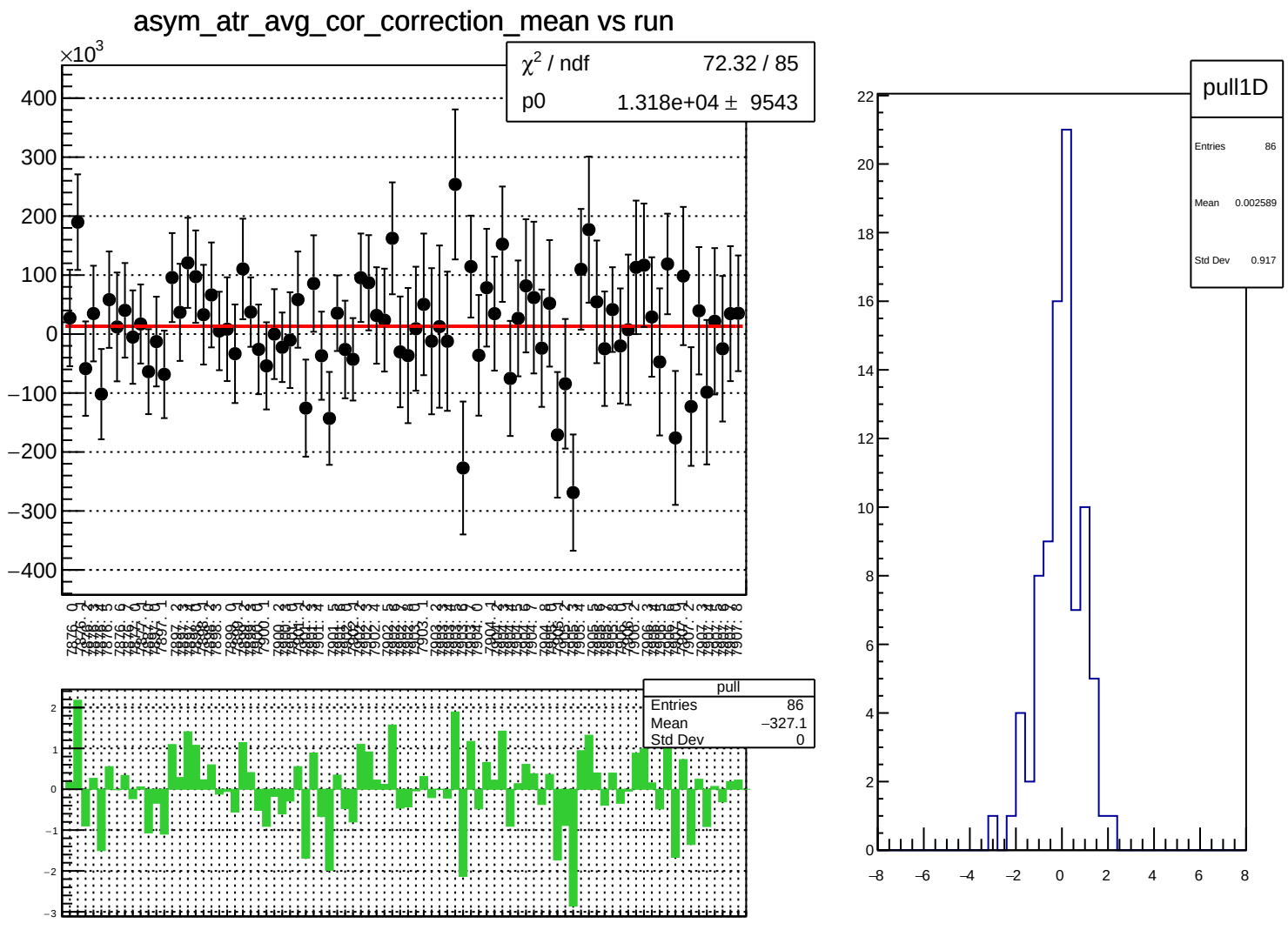

pull1D
Entries 86
Mean 0.002589
Std Dev 0.917

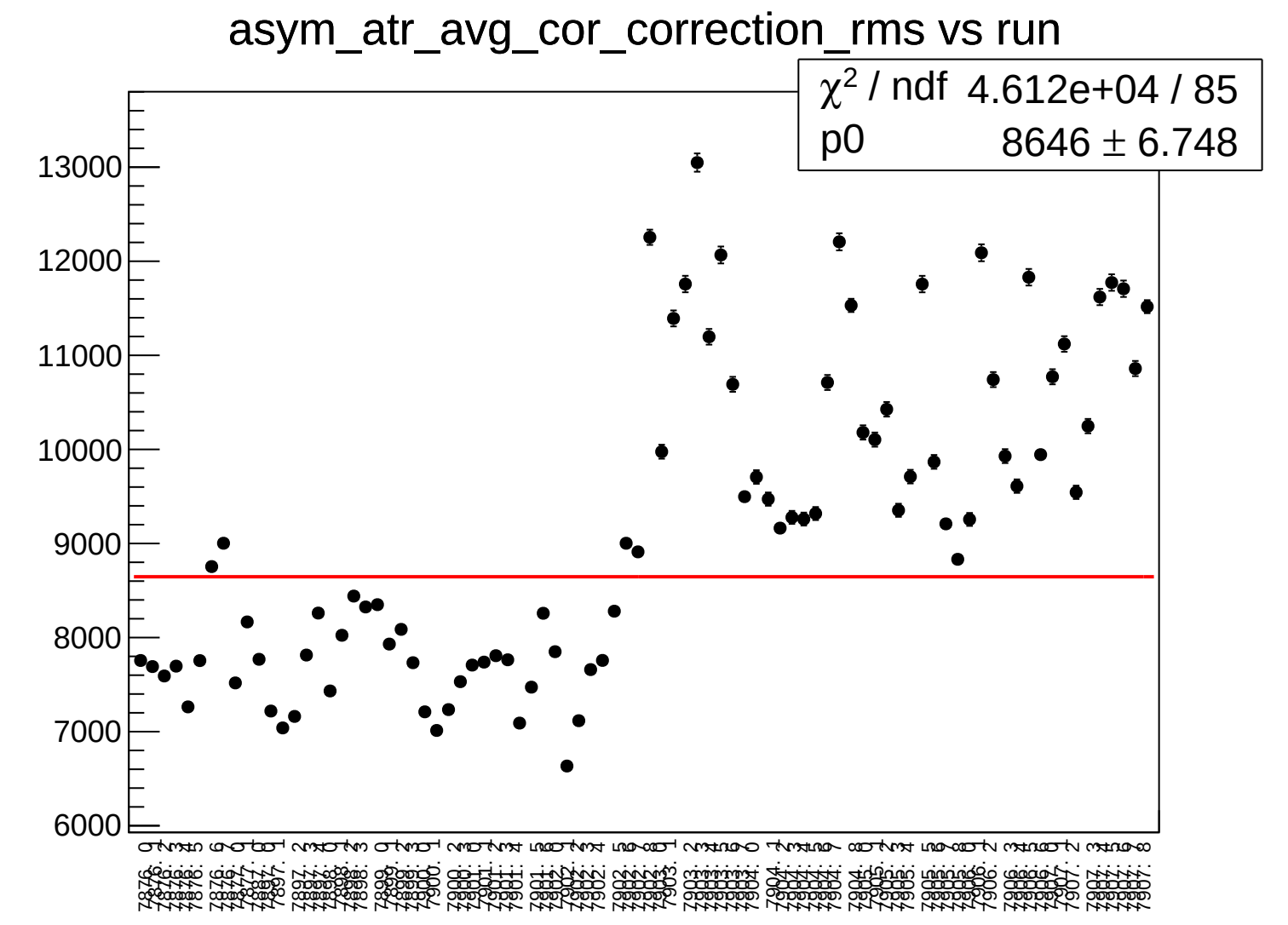

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4.612e+04 / 85
p0 8646 ± 6.748
13000
12000
11000
10000
9000
8000
7000
6000

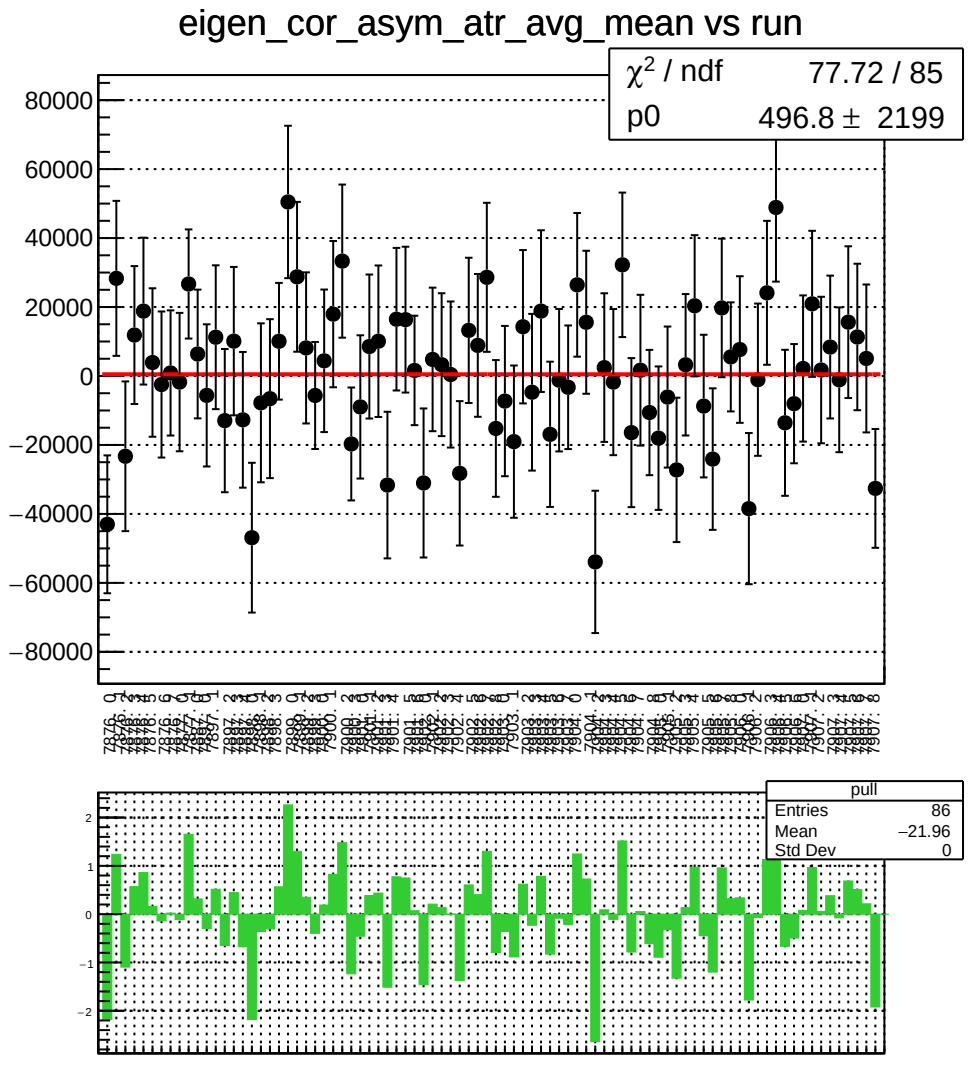

cor_asym_atr_avg_mean vs run
χ² / ndf 77.72 / 85
p0 496.8 ± 2199
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −21.96
Std Dev 0
2
1
0
−1
−2

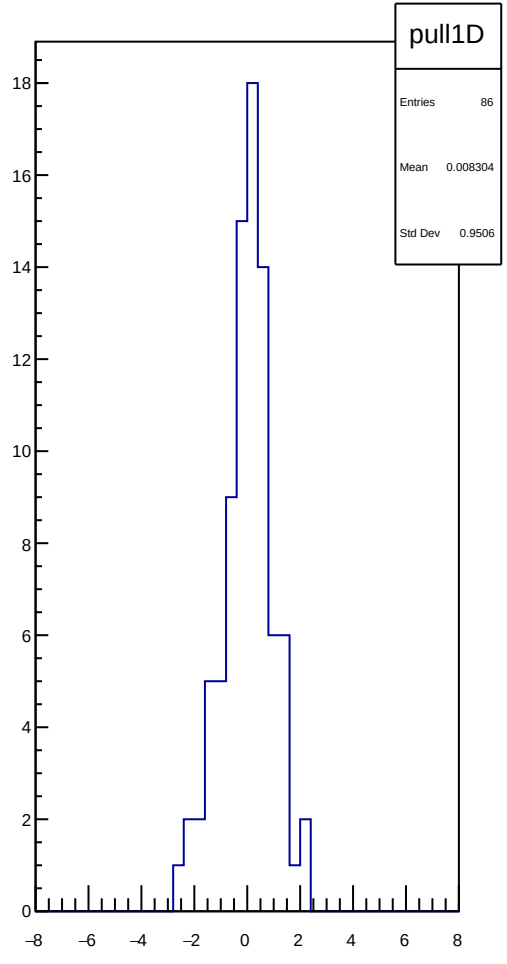

pull1D
Entries 86
Mean 0.008304
Std Dev 0.9506
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

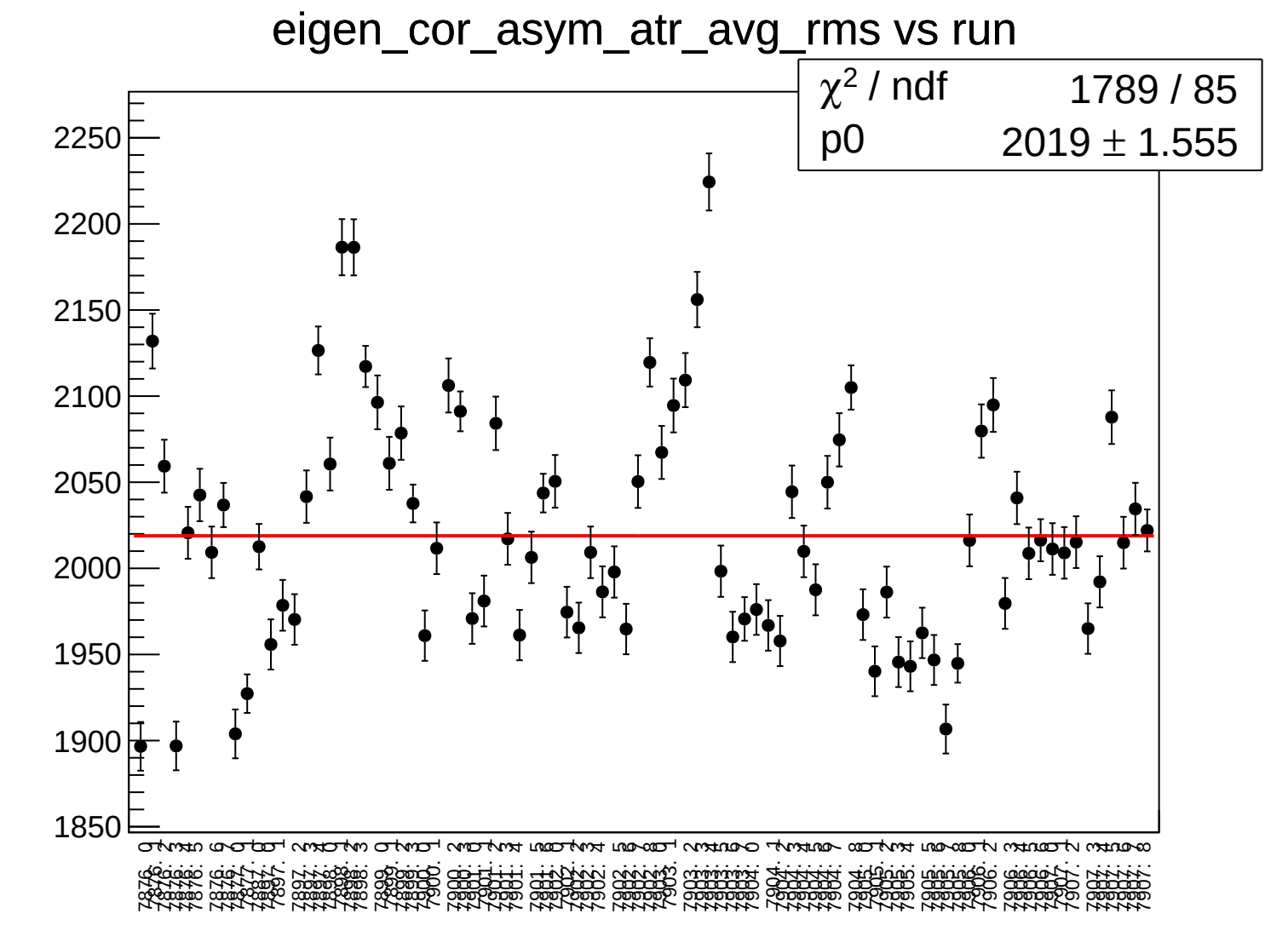

cor_asym_atr_avg_rms vs run
χ² / ndf 1789 / 85
p0 2019 ± 1.555
2250
2200
2150
2100
2050
2000
1950
1900
1850

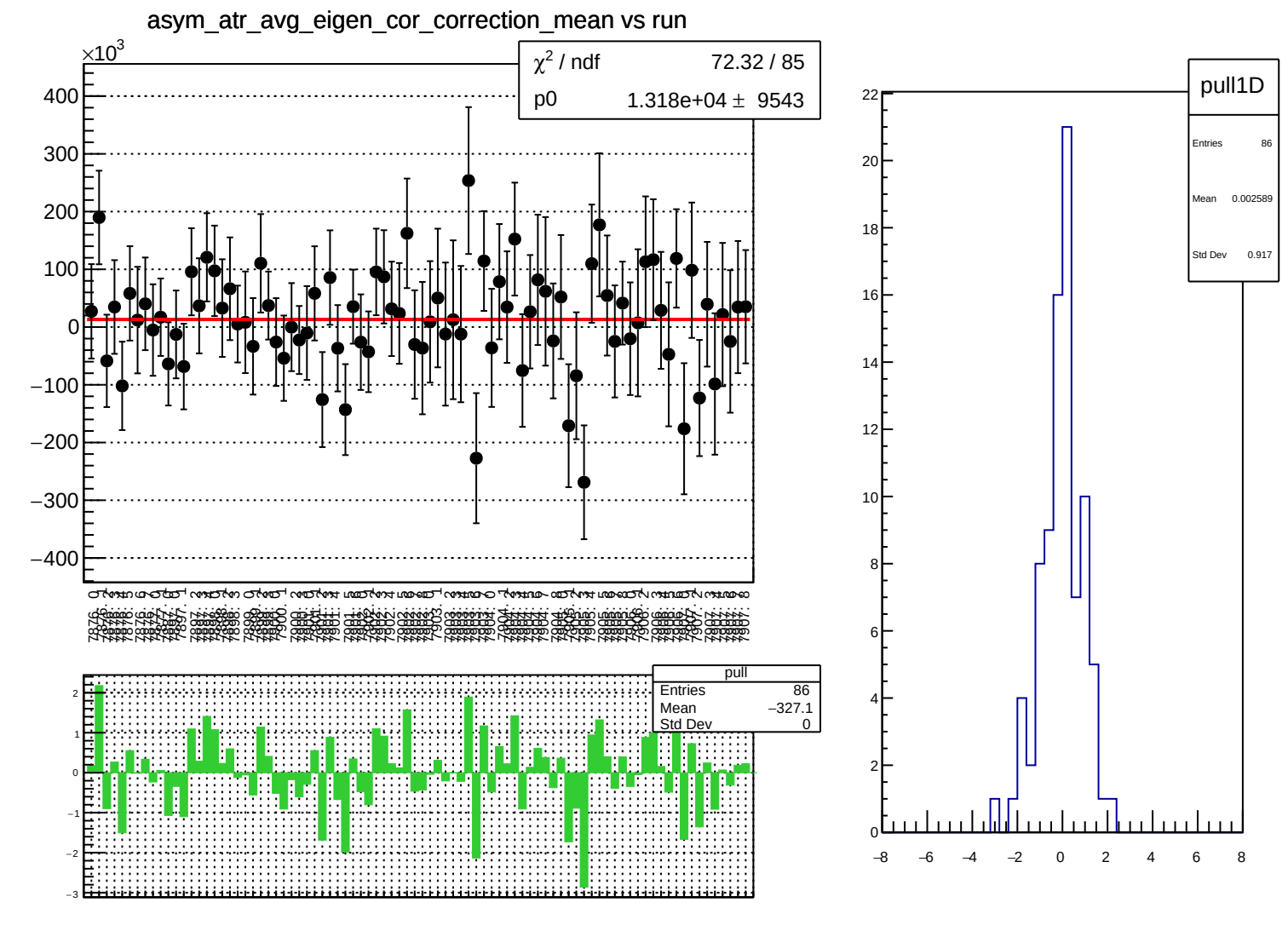

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 72.32 / 85
p0 1.318e+04 ± 9543
×10³
pull
Entries 86
Mean −327.1
Std Dev 0
pull1D
Entries 86
Mean 0.002589
Std Dev 0.917

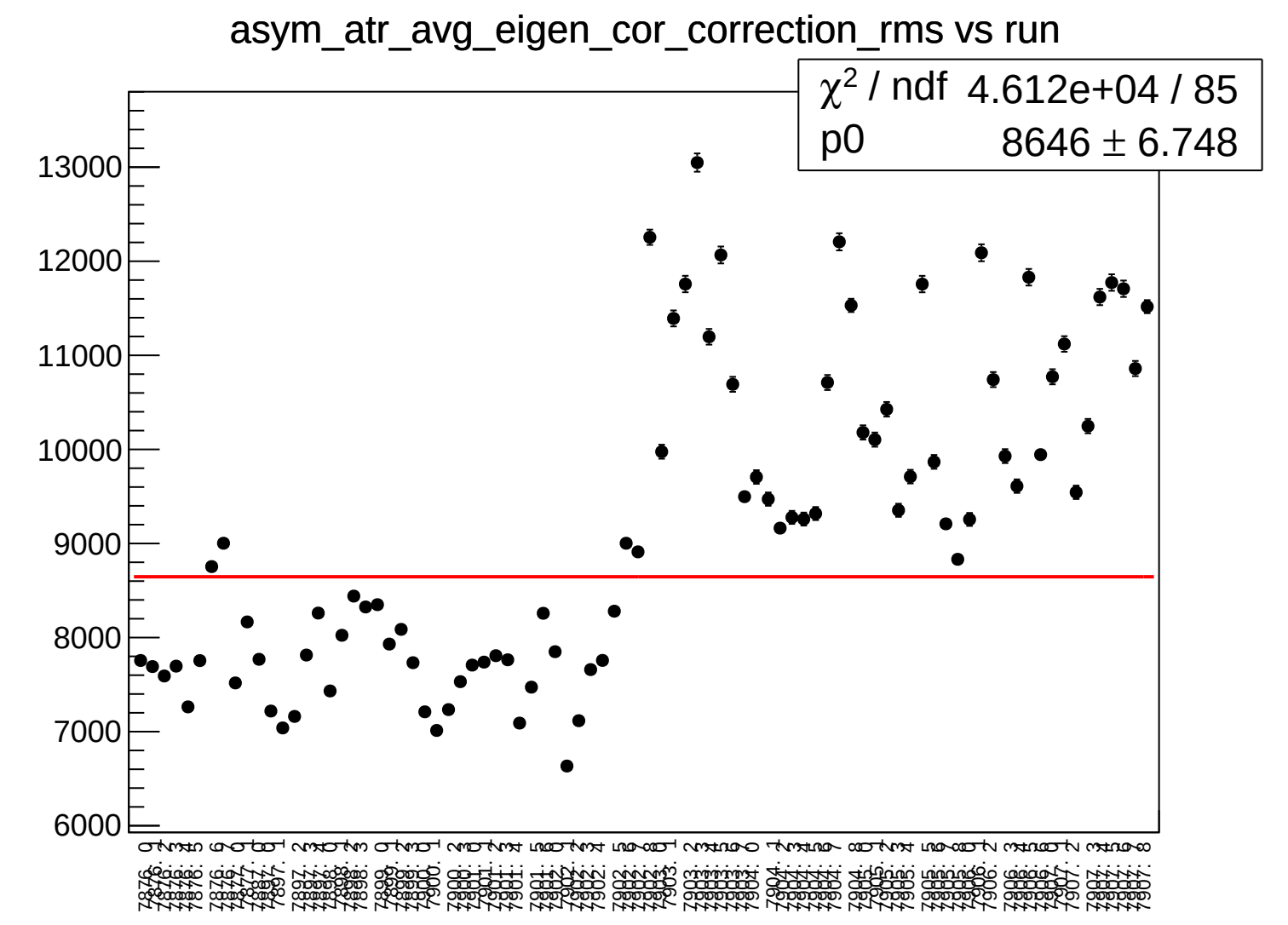

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 4.612e+04 / 85
p0 8646 ± 6.748
13000
12000
11000
10000
9000
8000
7000
6000

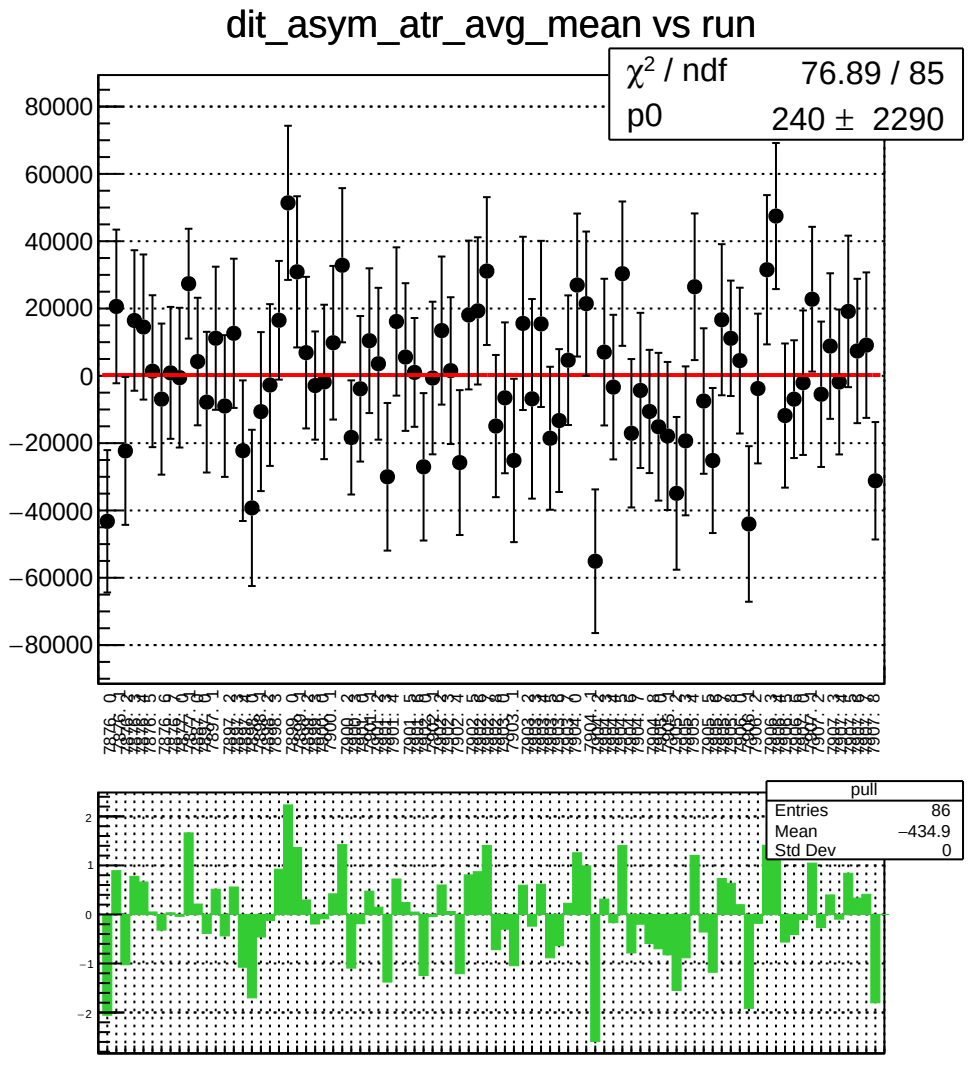

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 77.72 / 85
p0 496.8 ± 2199
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −21.96
Std Dev 0
2
1
0
−1
−2

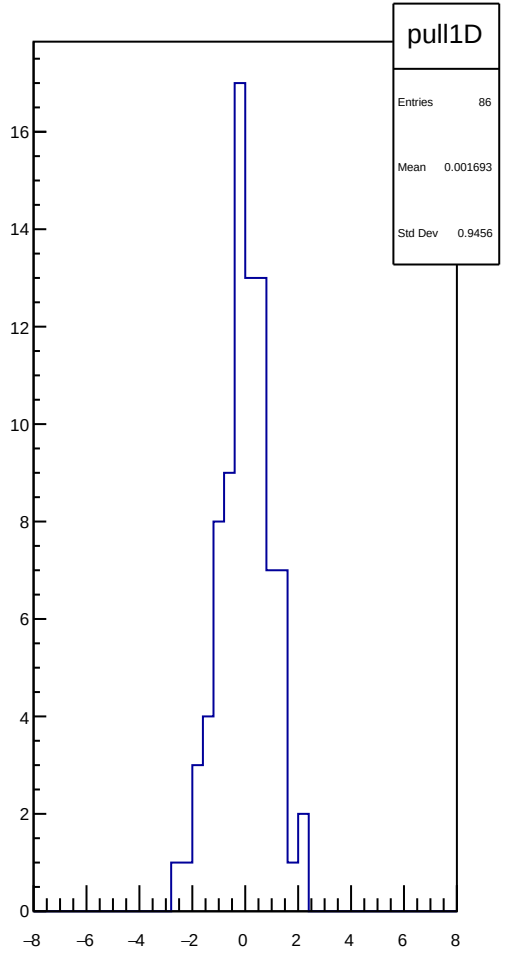

pull1D
Entries 86
Mean 0.008304
Std Dev 0.9506
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

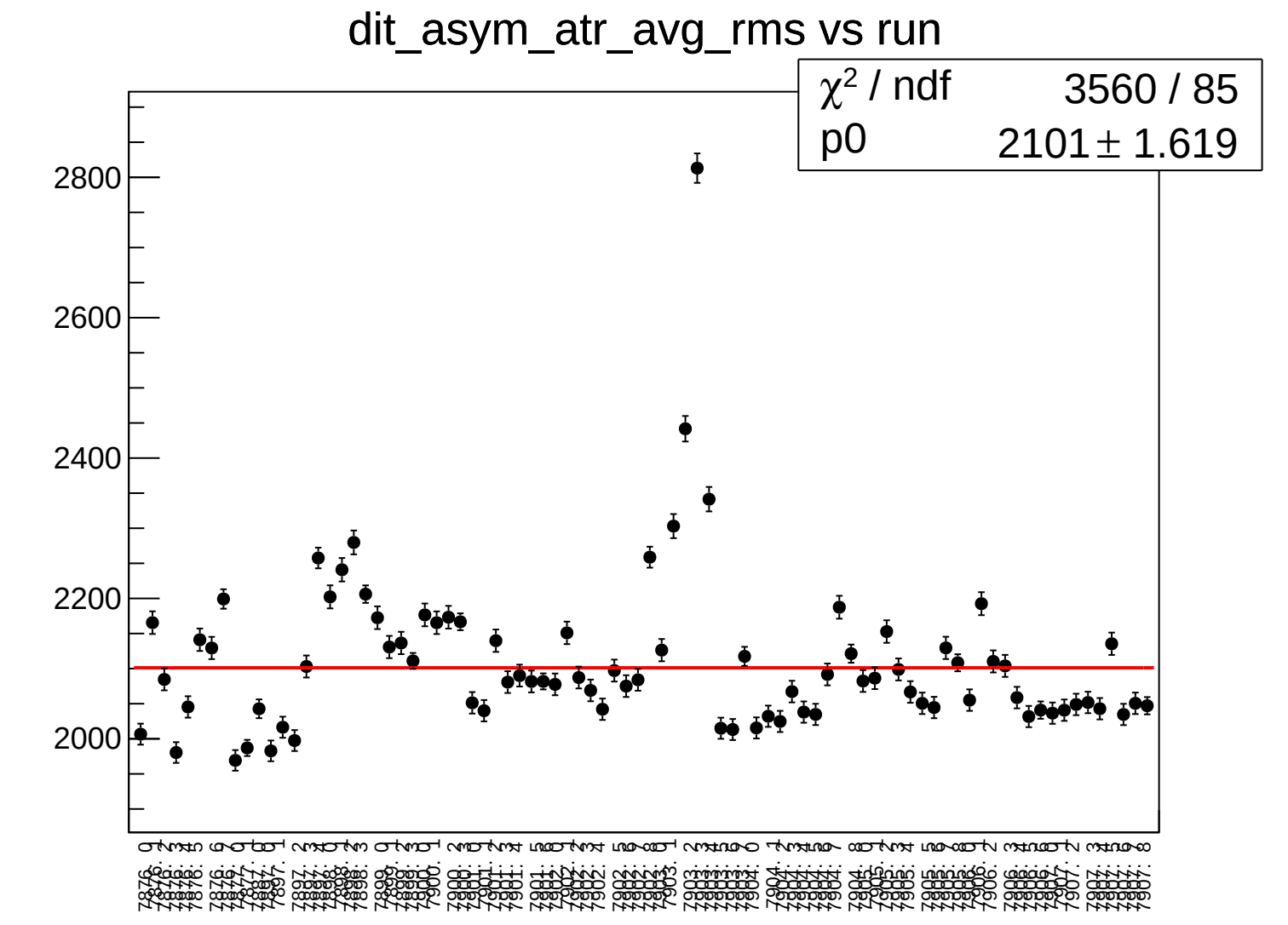

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 1789 / 85
p0 2019 ± 1.555
2250
2200
2150
2100
2050
2000
1950
1900
1850

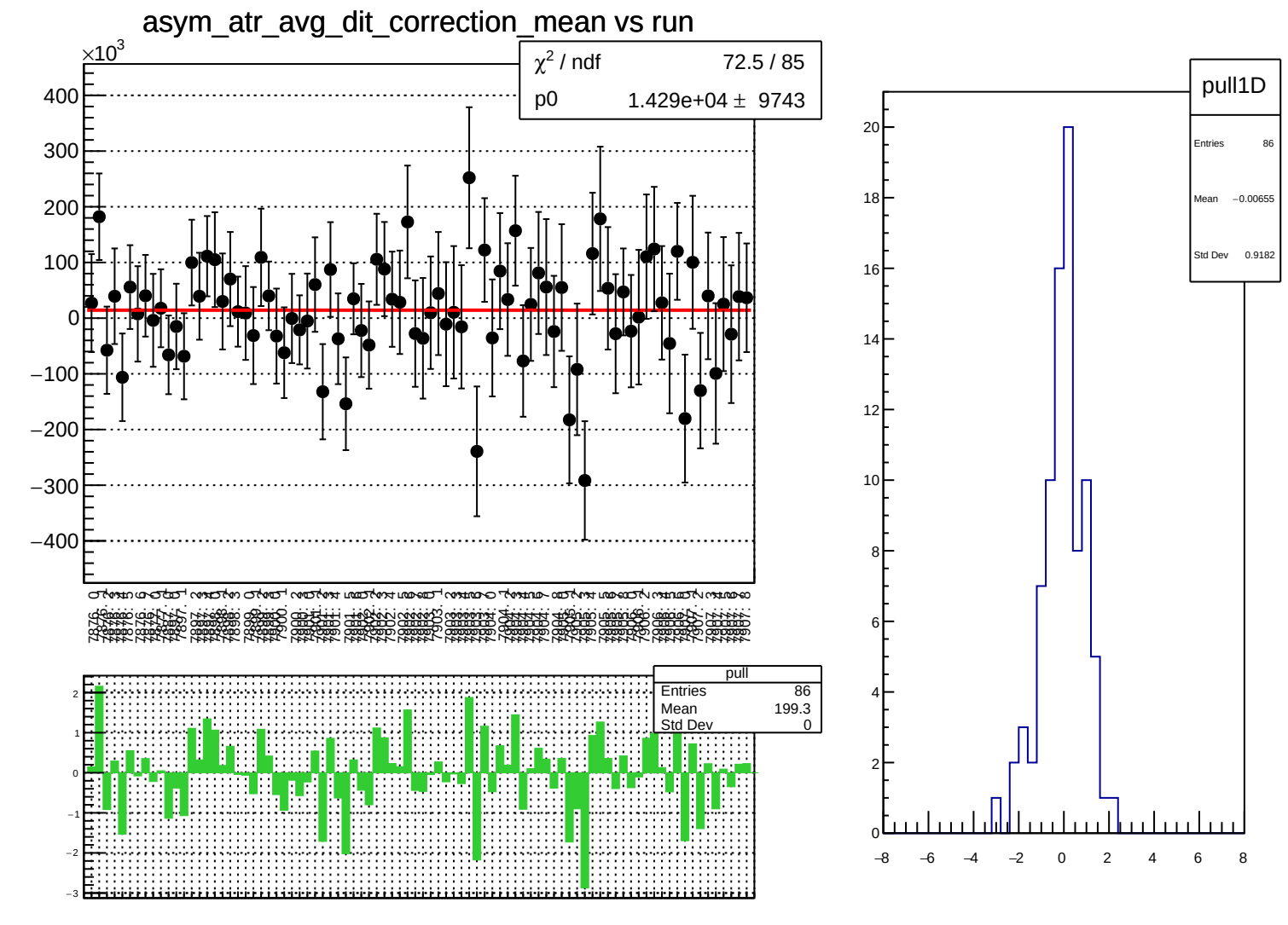

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.32 / 85
p0 1.318e+04 ± 9543
pull
Entries 86
Mean −327.1
Std Dev 0
pull1D
Entries 86
Mean 0.002589
Std Dev 0.917

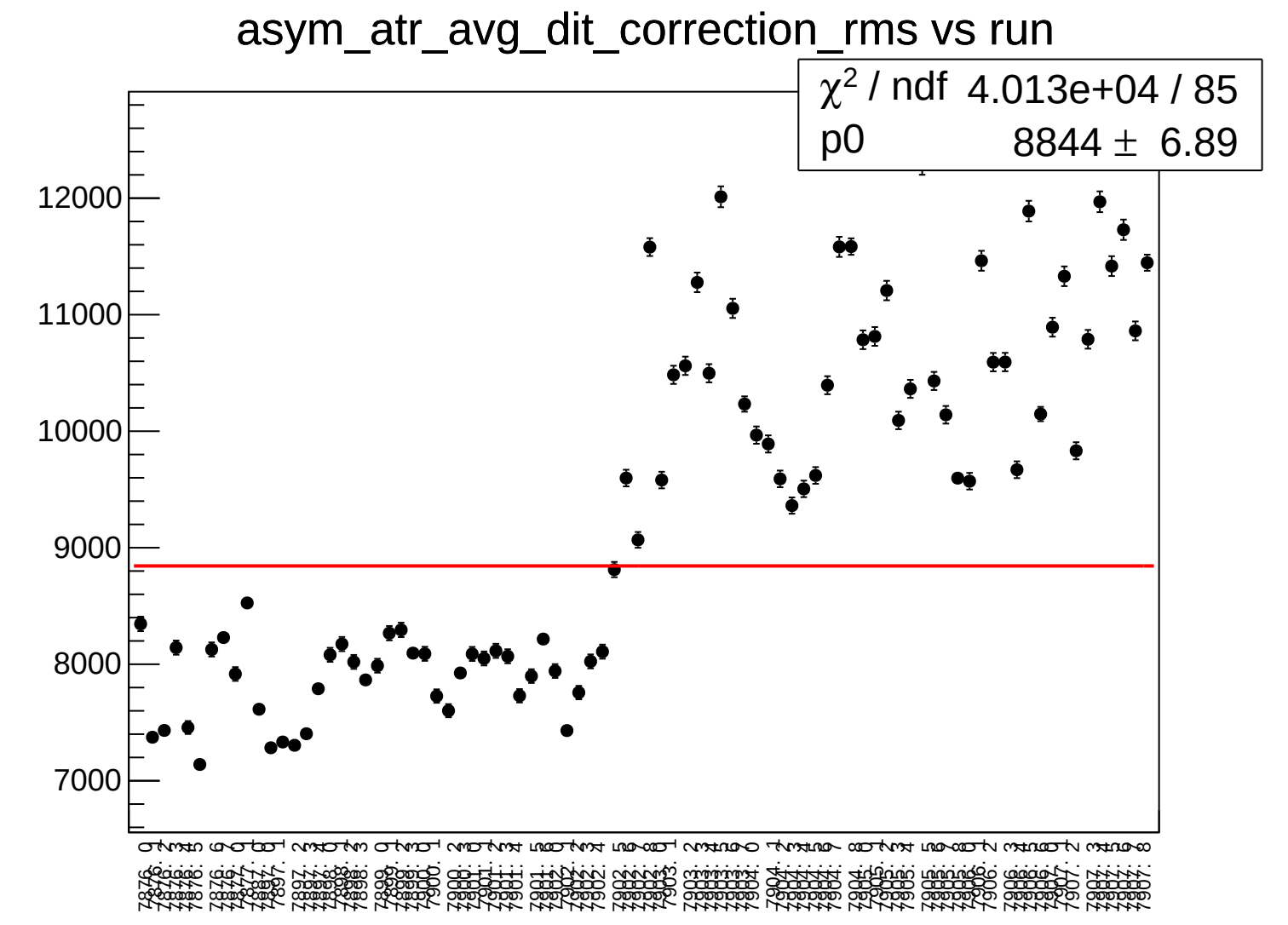

asym_atr_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4.612e+04 / 85
p0 8646 ± 6.748
13000
12000
11000
10000
9000
8000
7000
6000

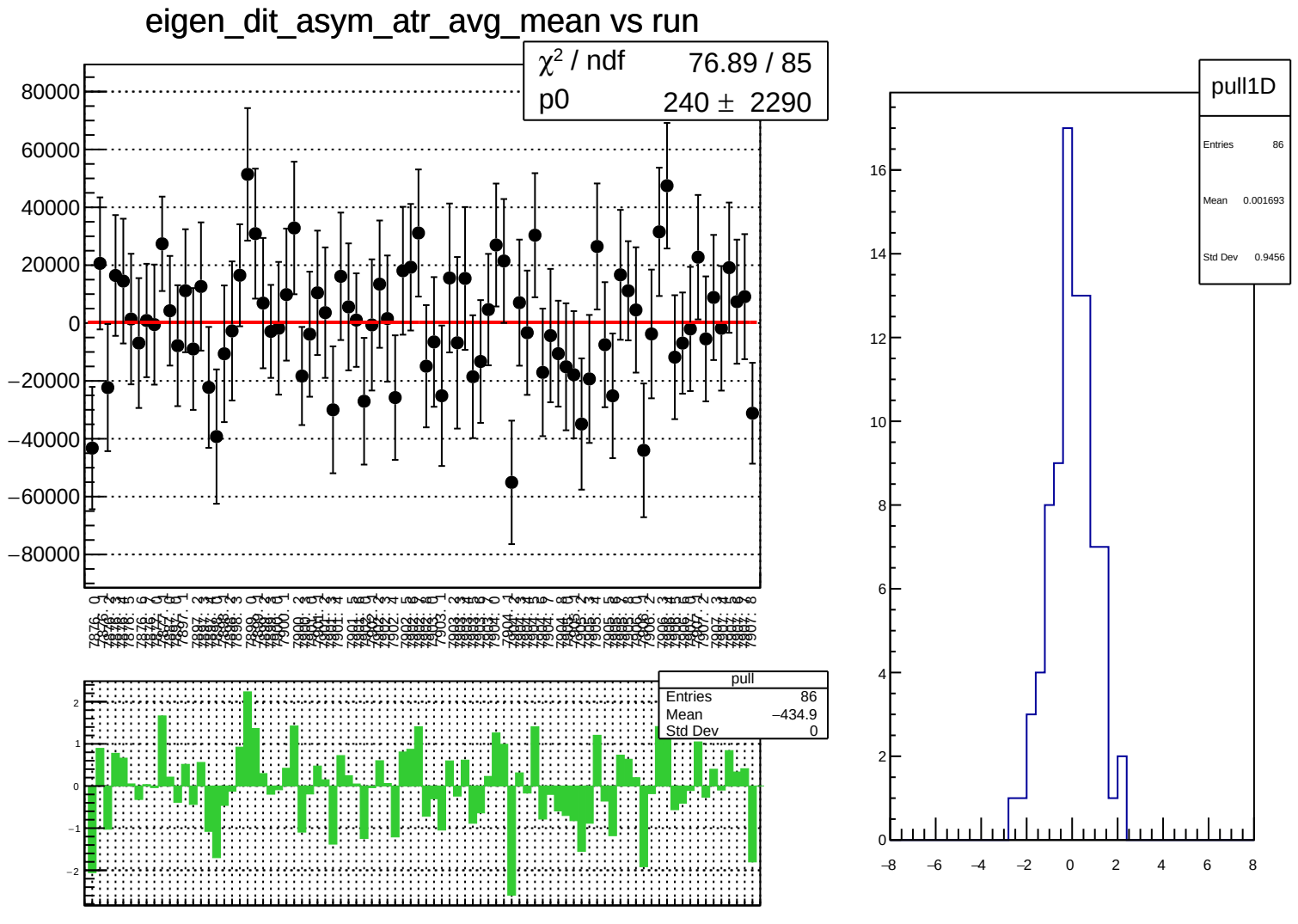

dit_asym_atr_avg_mean vs run
χ² / ndf 76.89 / 85
p0 240 ± 2290
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −434.9
Std Dev 0
2
1
0
−1
−2

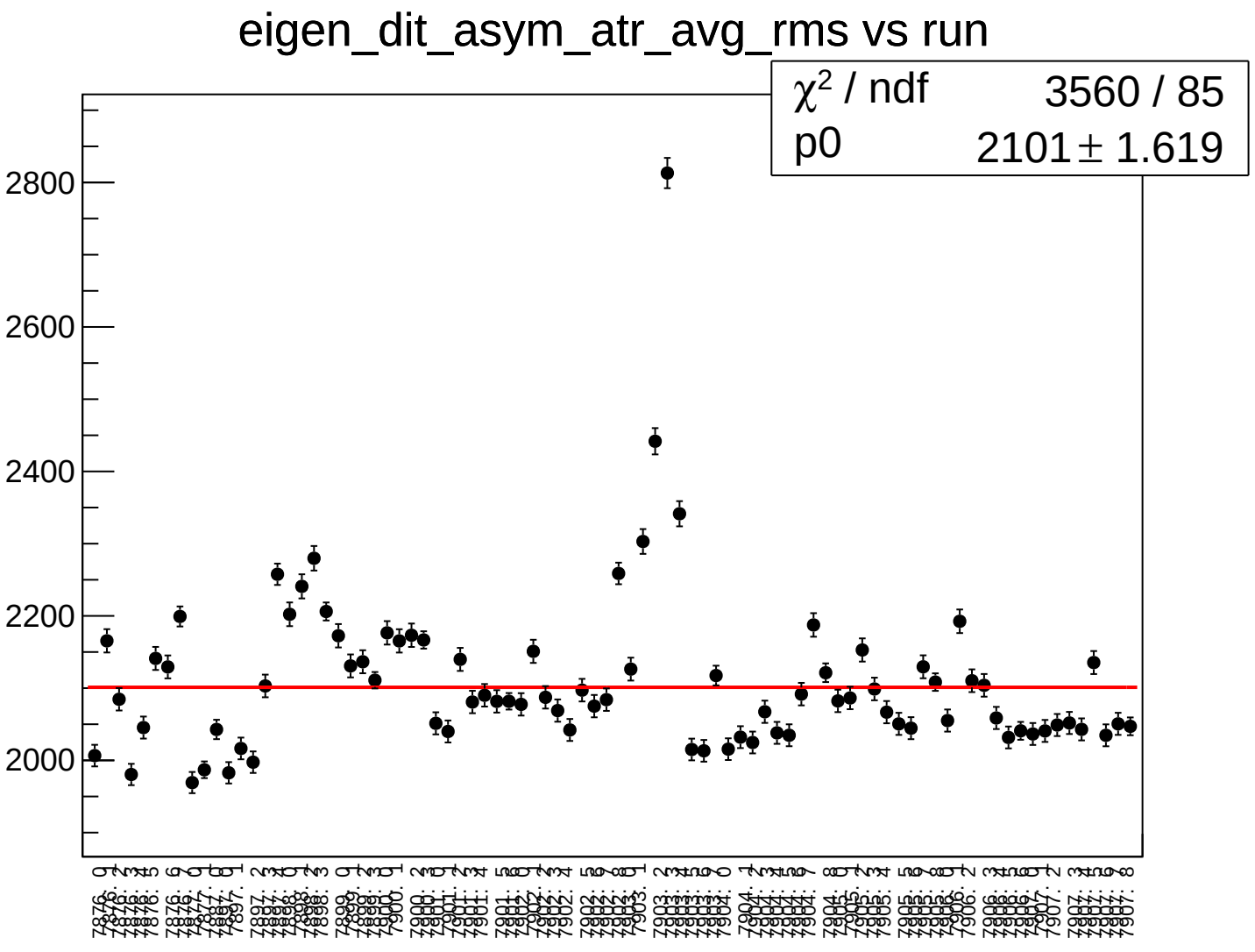

pull1D
Entries 86
Mean 0.001693
Std Dev 0.9456
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

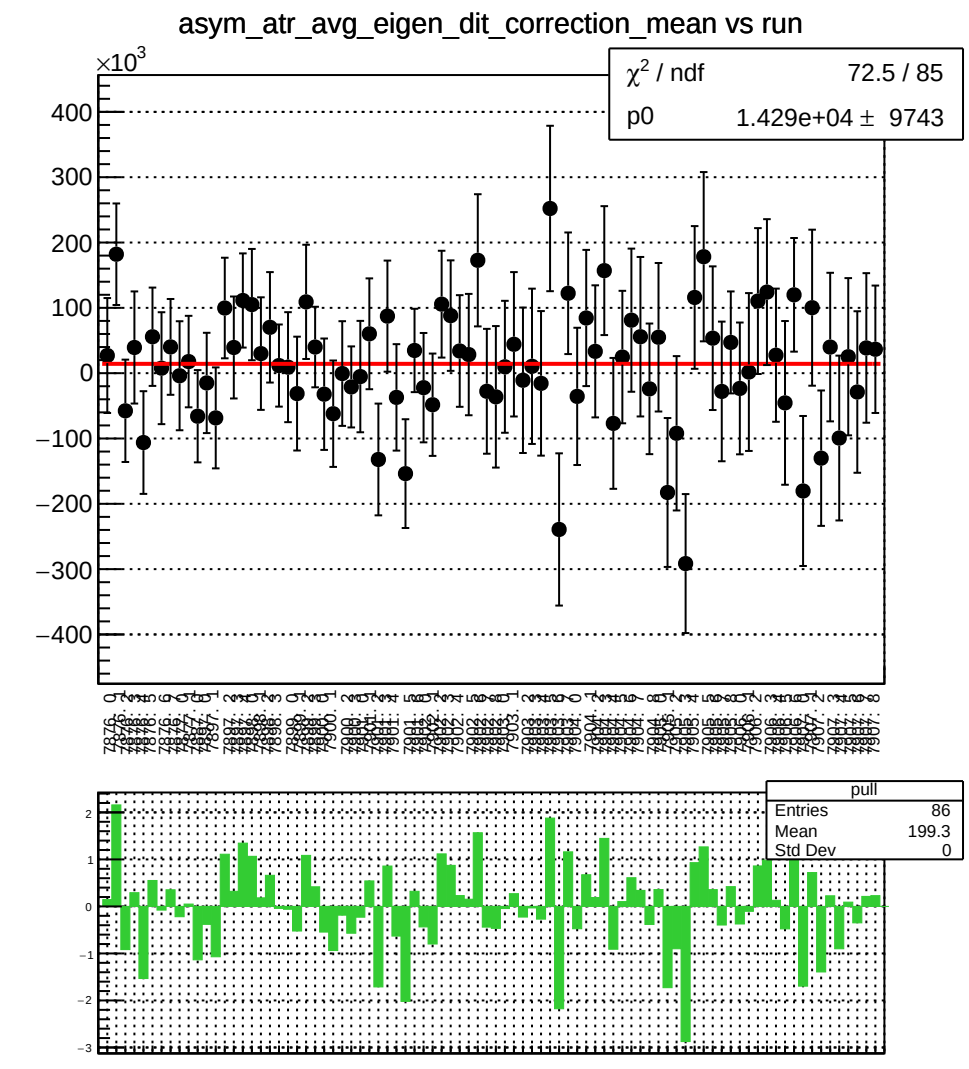

dit_asym_atr_avg_rms vs run
χ² / ndf 3560 / 85
p0 2101 ± 1.619
2800
2600
2400
2200
2000

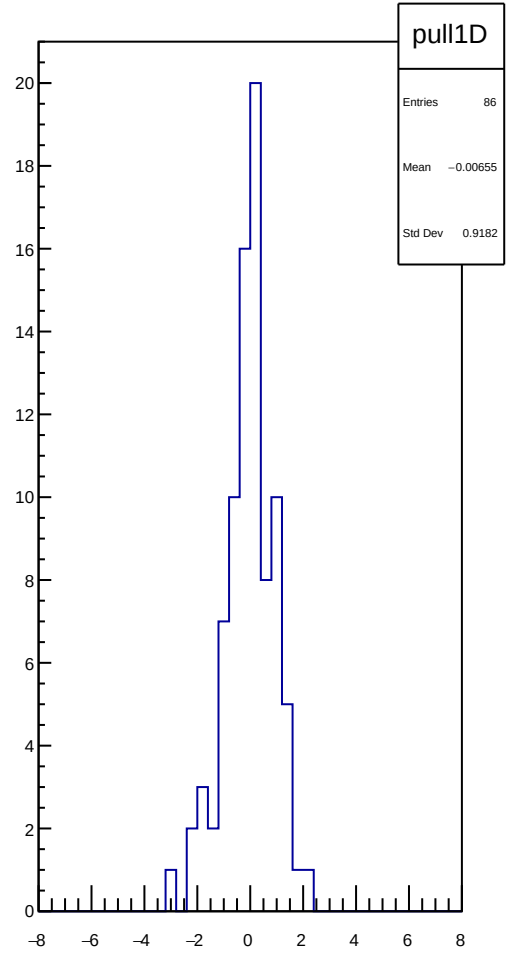

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.5 / 85
p0 1.429e+04 ± 9743
pull
Entries 86
Mean 199.3
Std Dev 0
pull1D
Entries 86
Mean −0.00655
Std Dev 0.9182

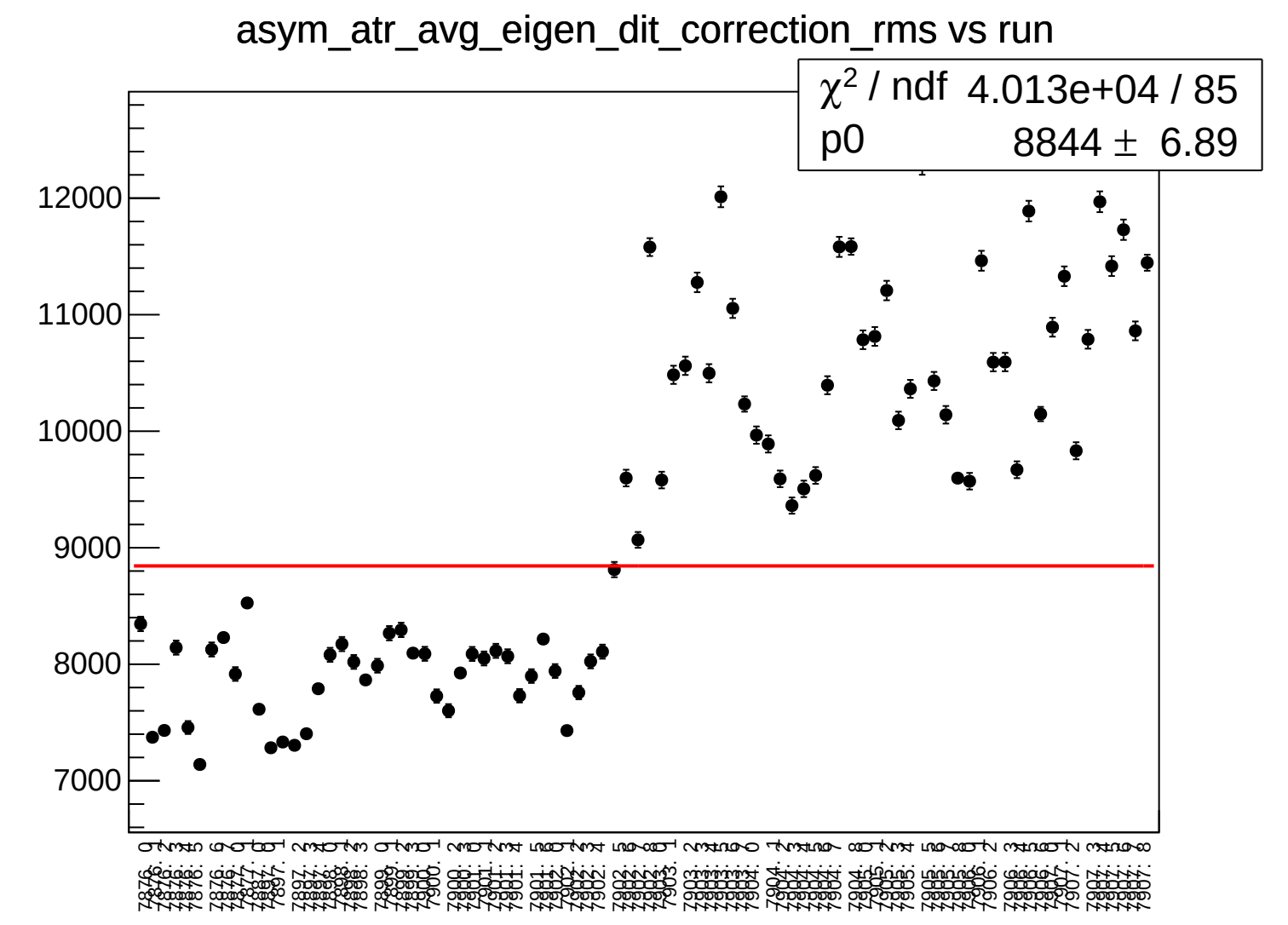

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 4.013e+04 / 85
p0 8844 ± 6.89
12000
11000
10000
9000
8000
7000

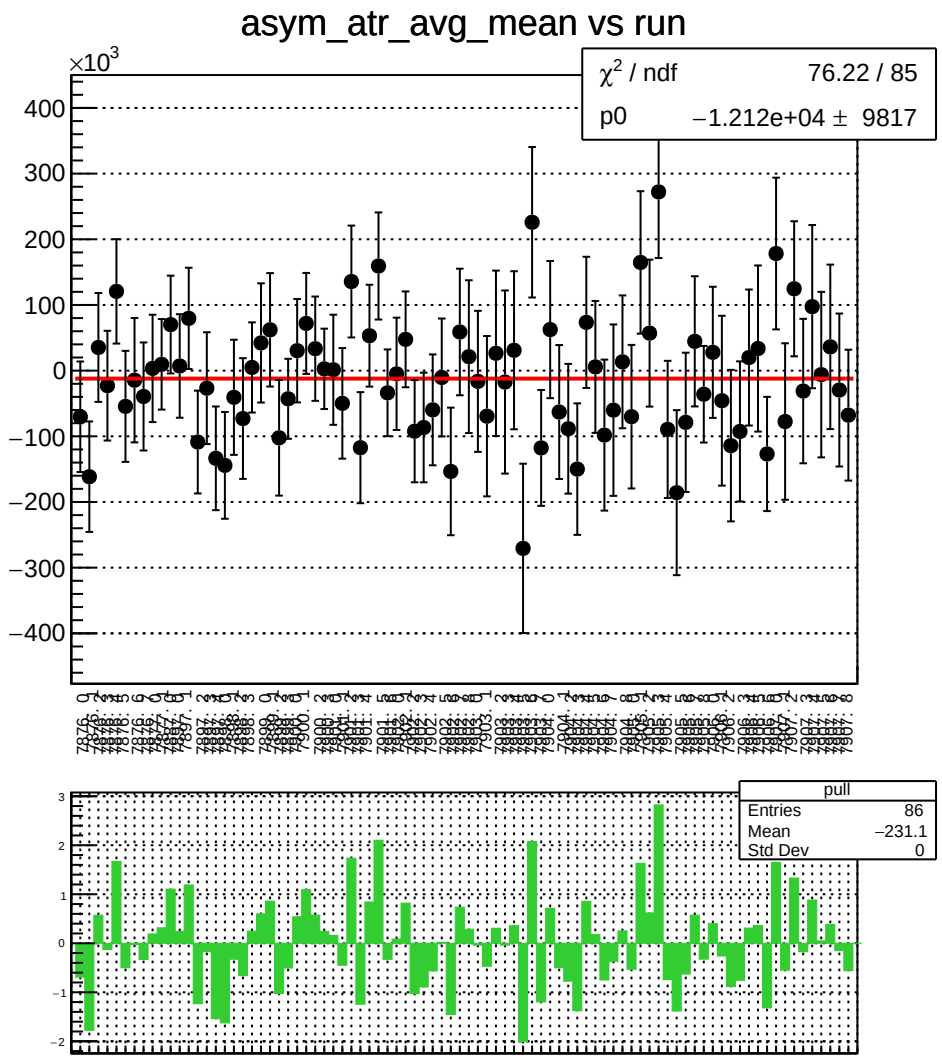

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 76.89 / 85
p0 240 ± 2290
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −434.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.001693
Std Dev 0.9456
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

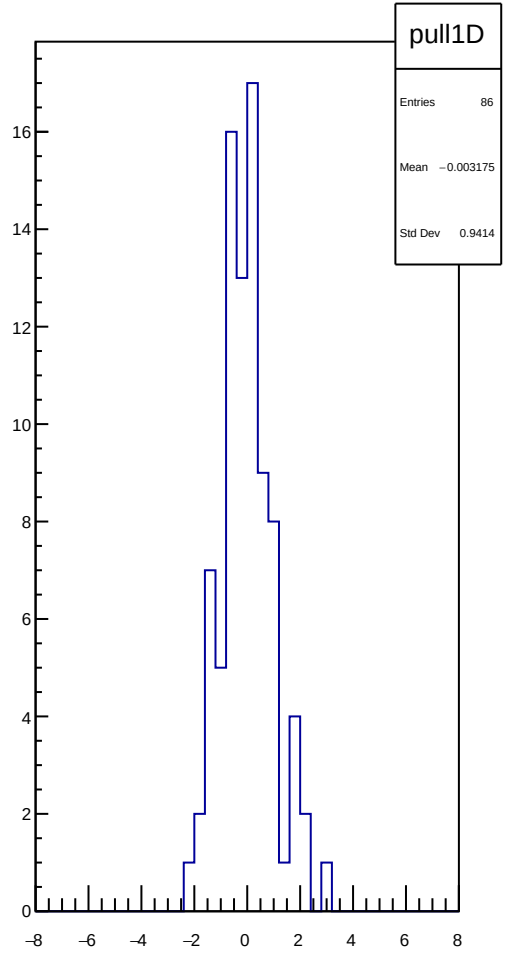

eigen_dit_asym_atr_avg_rms vs run
χ^2 / ndf 3560 / 85
p0 2101 ± 1.619
2800
2600
2400
2200
2000

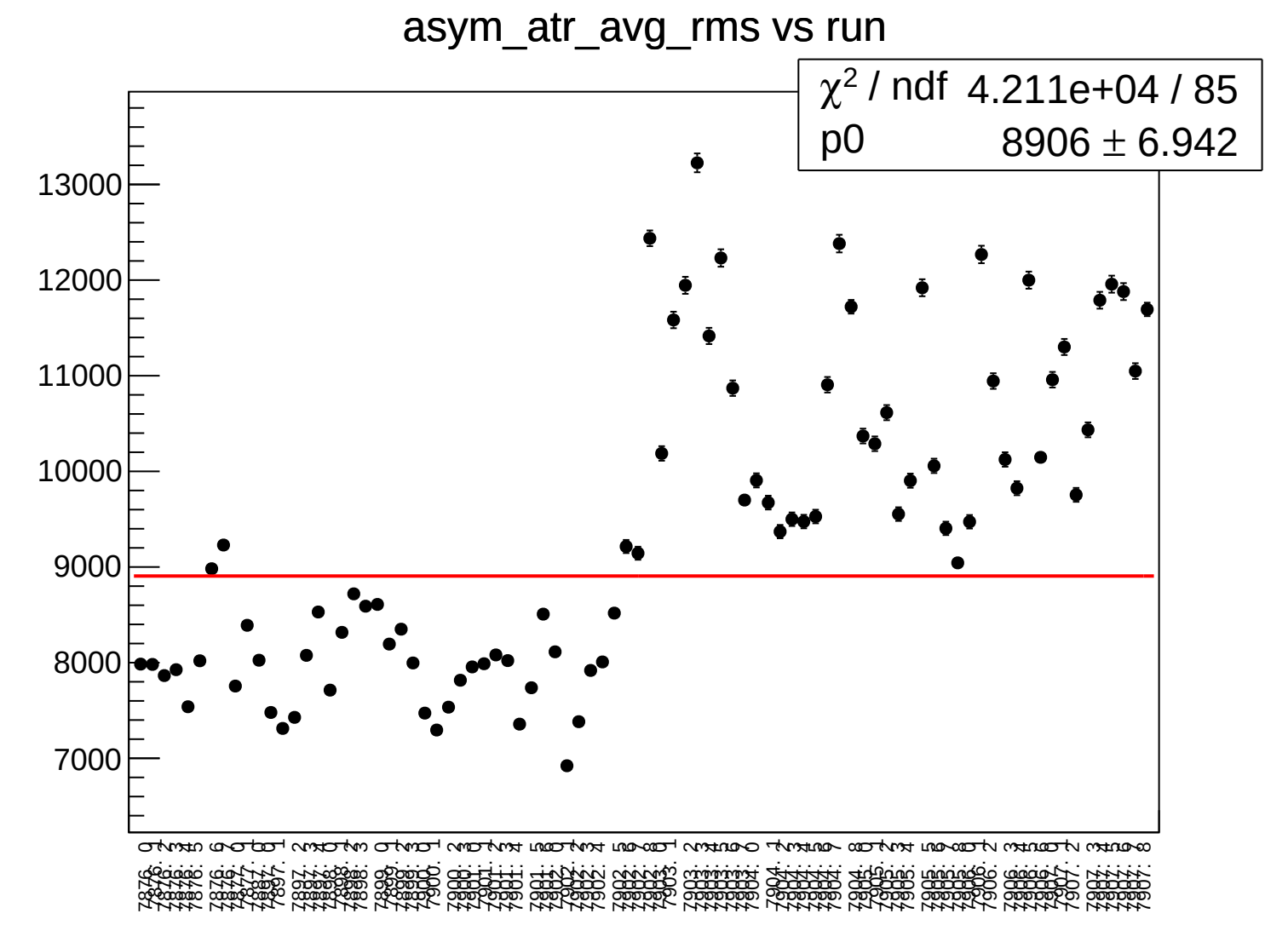

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.5 / 85
p0 1.429e+04 ± 9743
pull
Entries 86
Mean 199.3
Std Dev 0

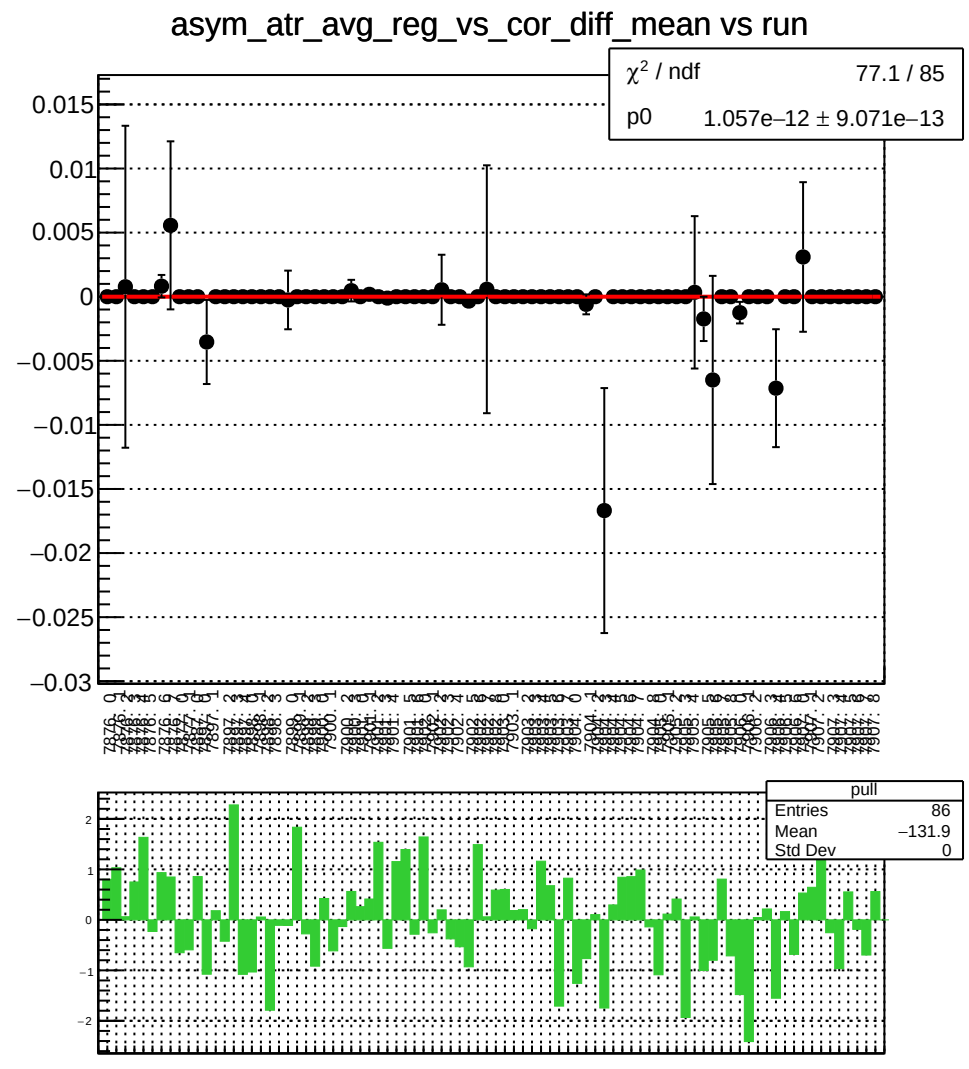

pull1D
Entries 86
Mean −0.00655
Std Dev 0.9182

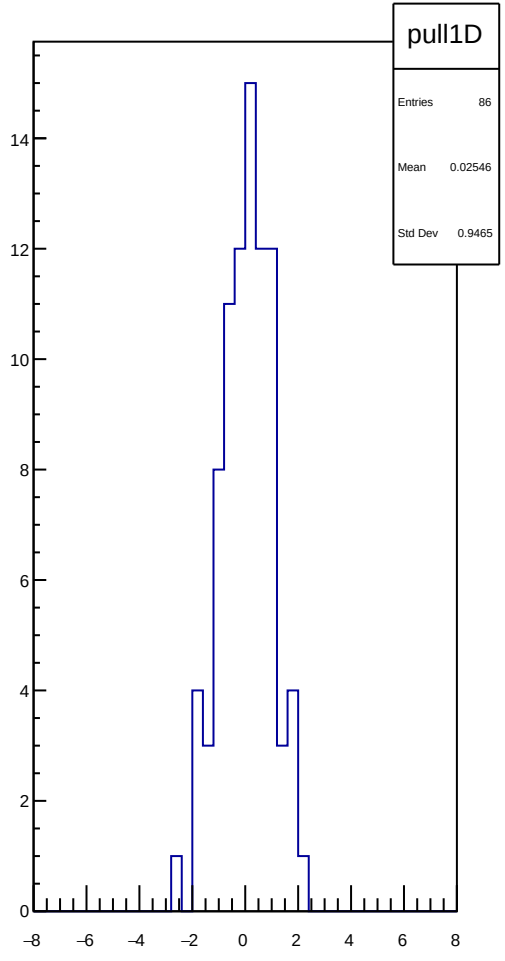

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.013e+04 / 85
p0 8844 ± 6.89
12000
11000
10000
9000
8000
7000

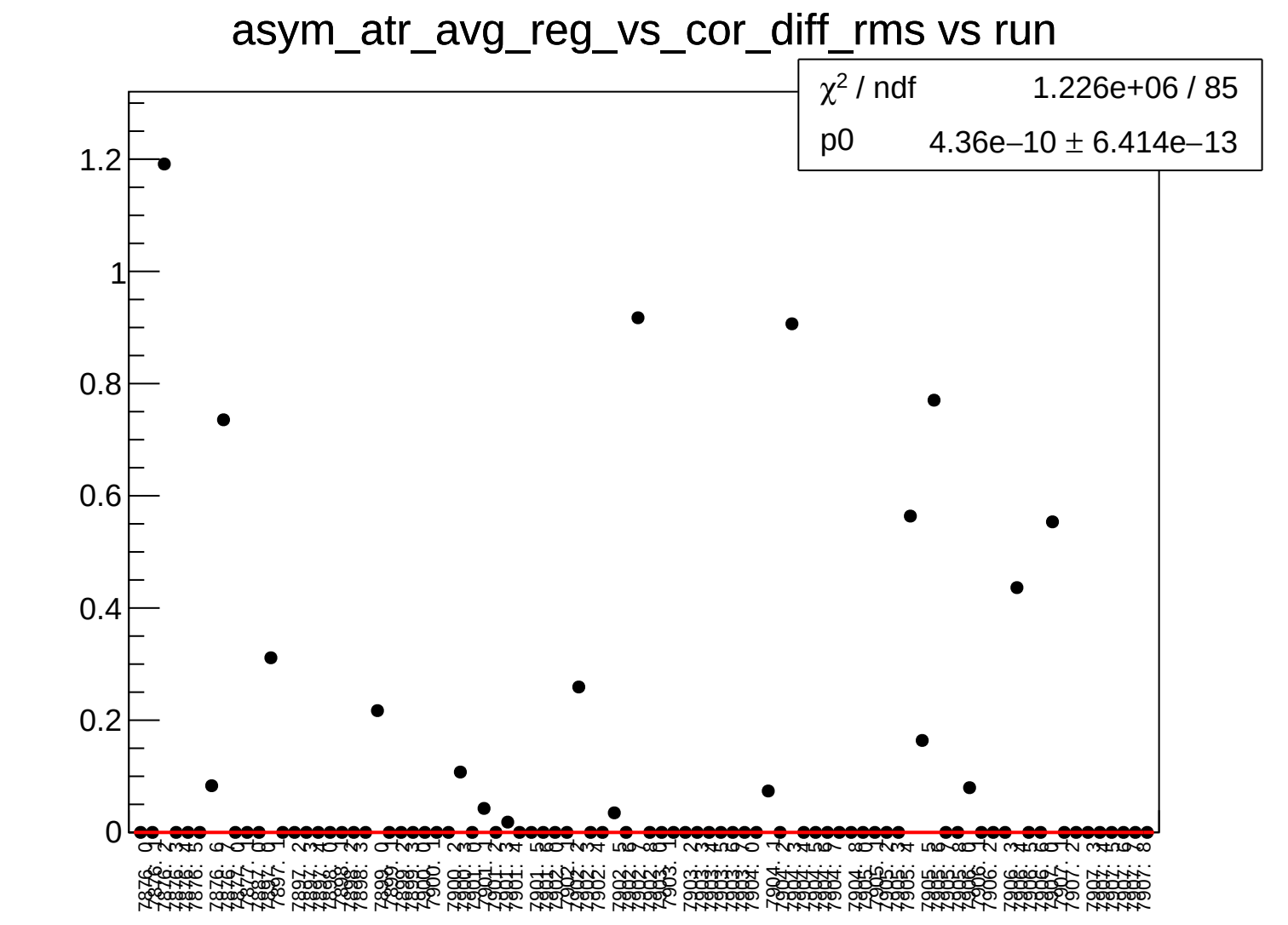

asym_atr_avg_mean vs run
×10^3
χ² / ndf 76.22 / 85
p0 −1.212e+04 ± 9817
pull
Entries 86
Mean −231.1
Std Dev 0

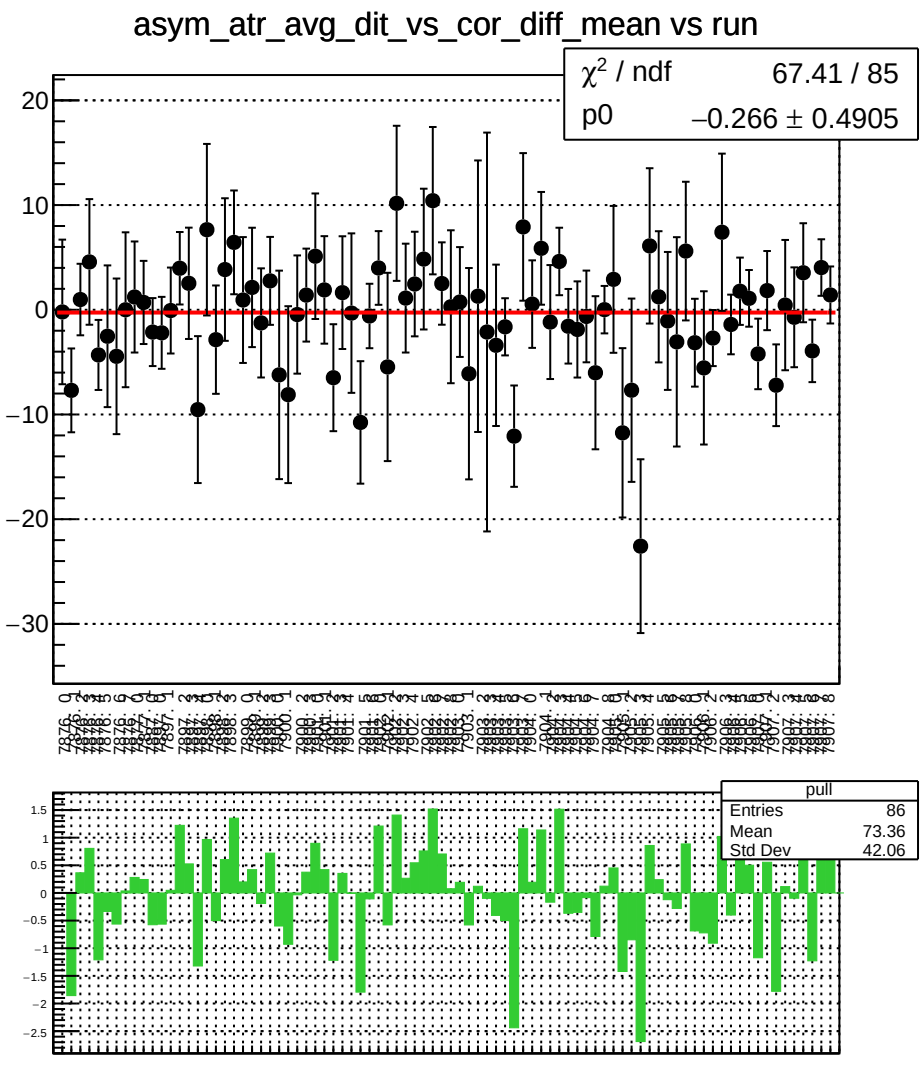

pull1D
Entries 86
Mean −0.003175
Std Dev 0.9414

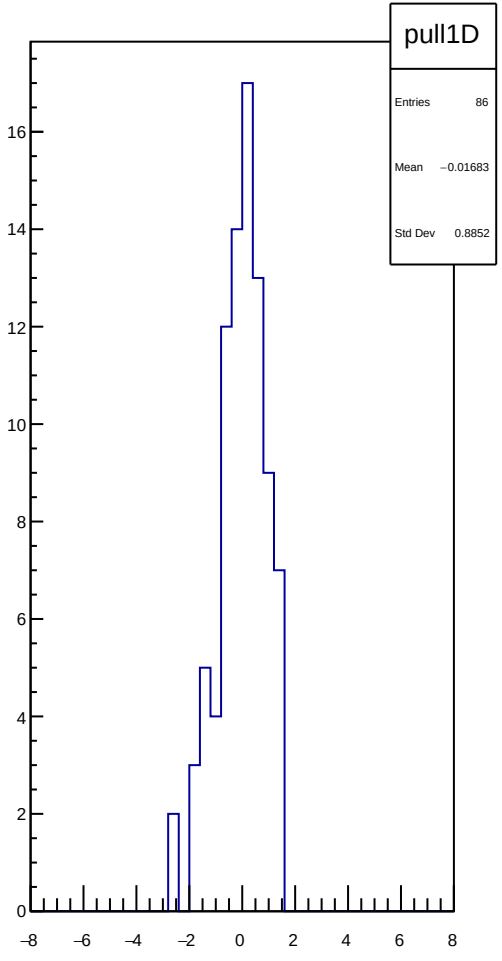

asym_atr_avg_rms vs run
χ² / ndf 4.211e+04 / 85
p0 8906 ± 6.942
13000
12000
11000
10000
9000
8000
7000

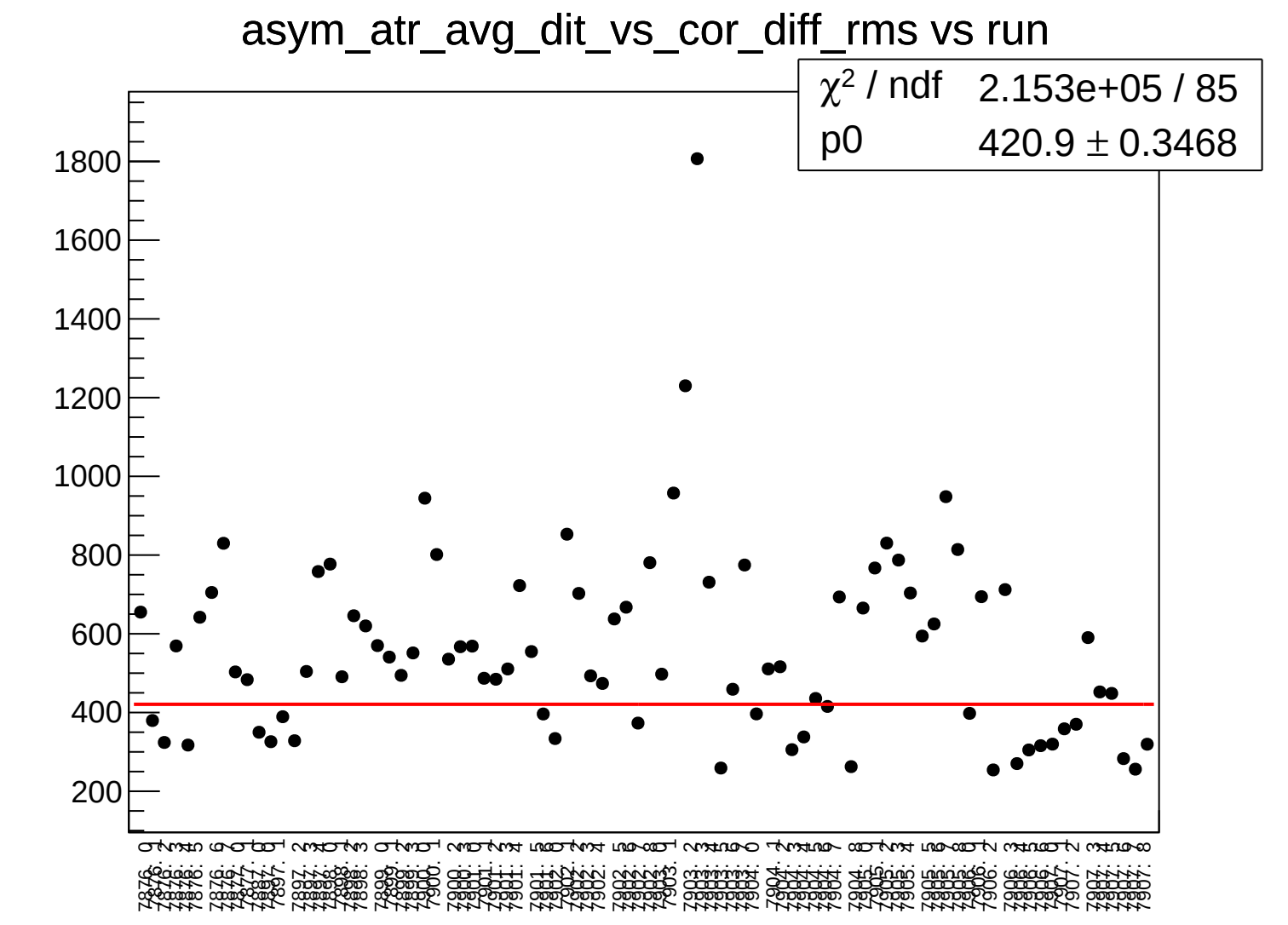

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.1 / 85
p0 1.057e−12 ± 9.071e−13
pull
Entries 86
Mean −131.9
Std Dev 0

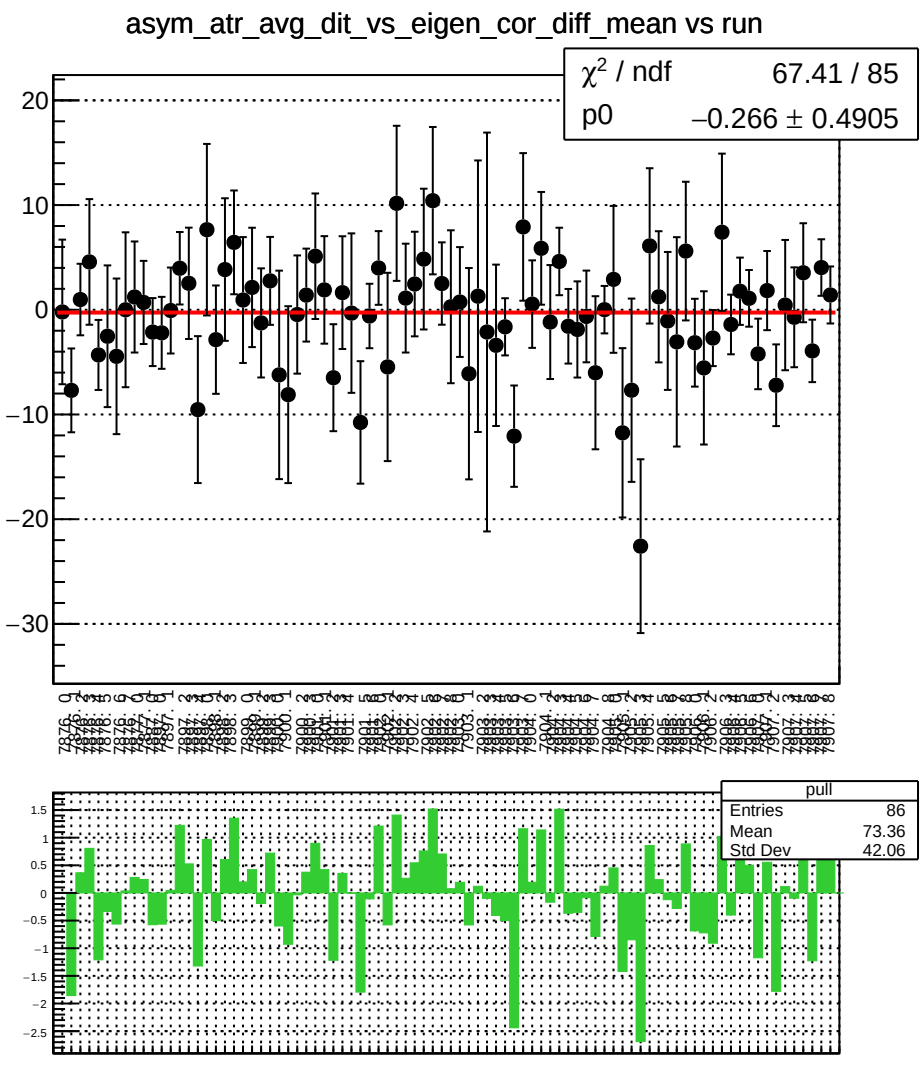

pull1D
Entries 86
Mean 0.02546
Std Dev 0.9465

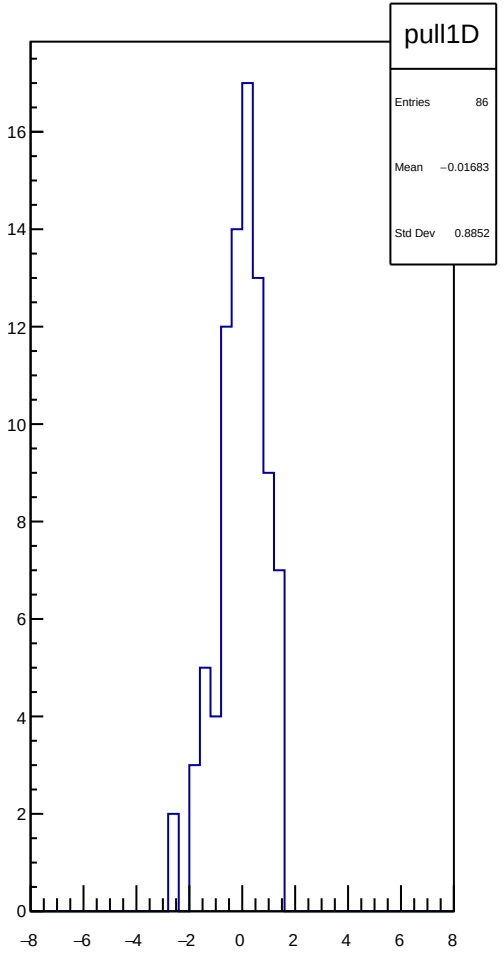

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.226e+06 / 85
p0 4.36e−10 ± 6.414e−13
1.2
1
0.8
0.6
0.4
0.2
0

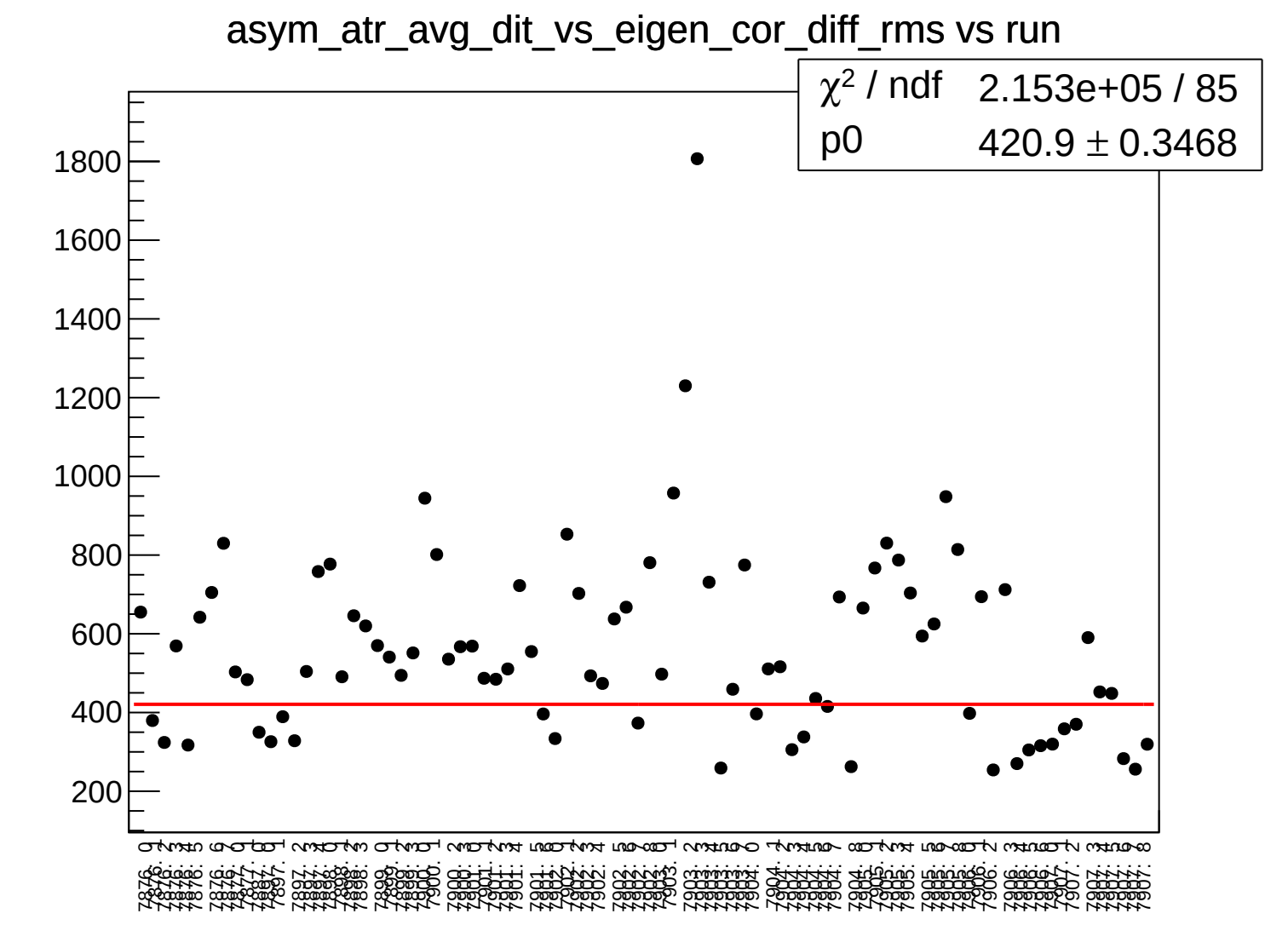

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.41 / 85
p0 −0.266 ± 0.4905
pull
Entries 86
Mean 73.36
Std Dev 42.06

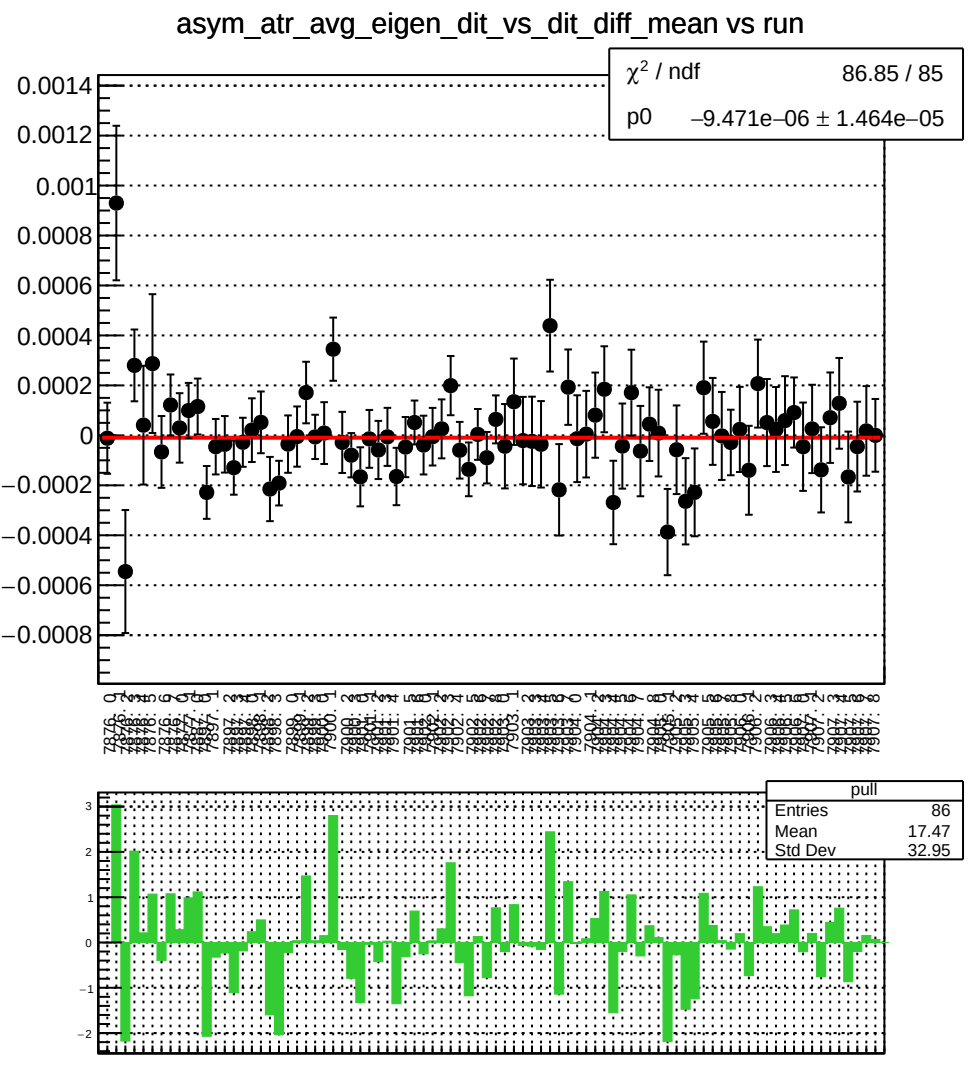

pull1D
Entries 86
Mean −0.01683
Std Dev 0.8852

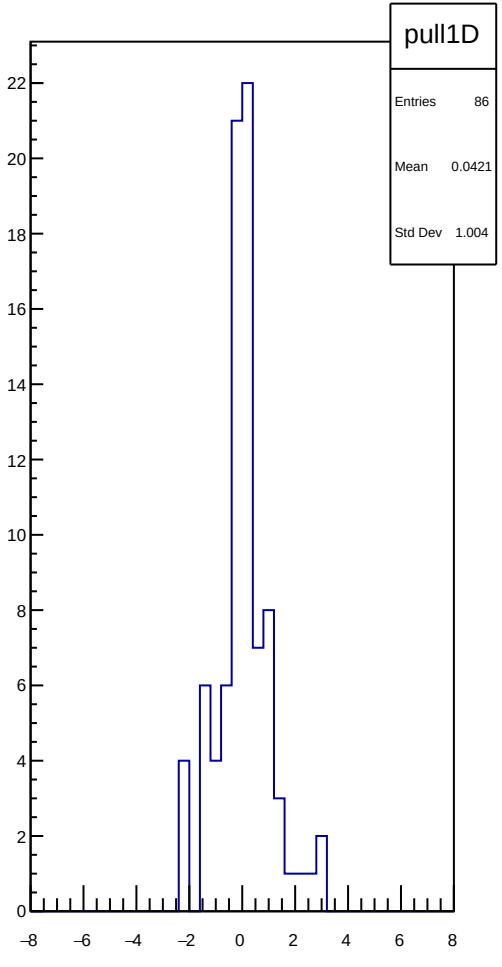

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.153e+05 / 85
p0 420.9 ± 0.3468
1800
1600
1400
1200
1000
800
600
400
200

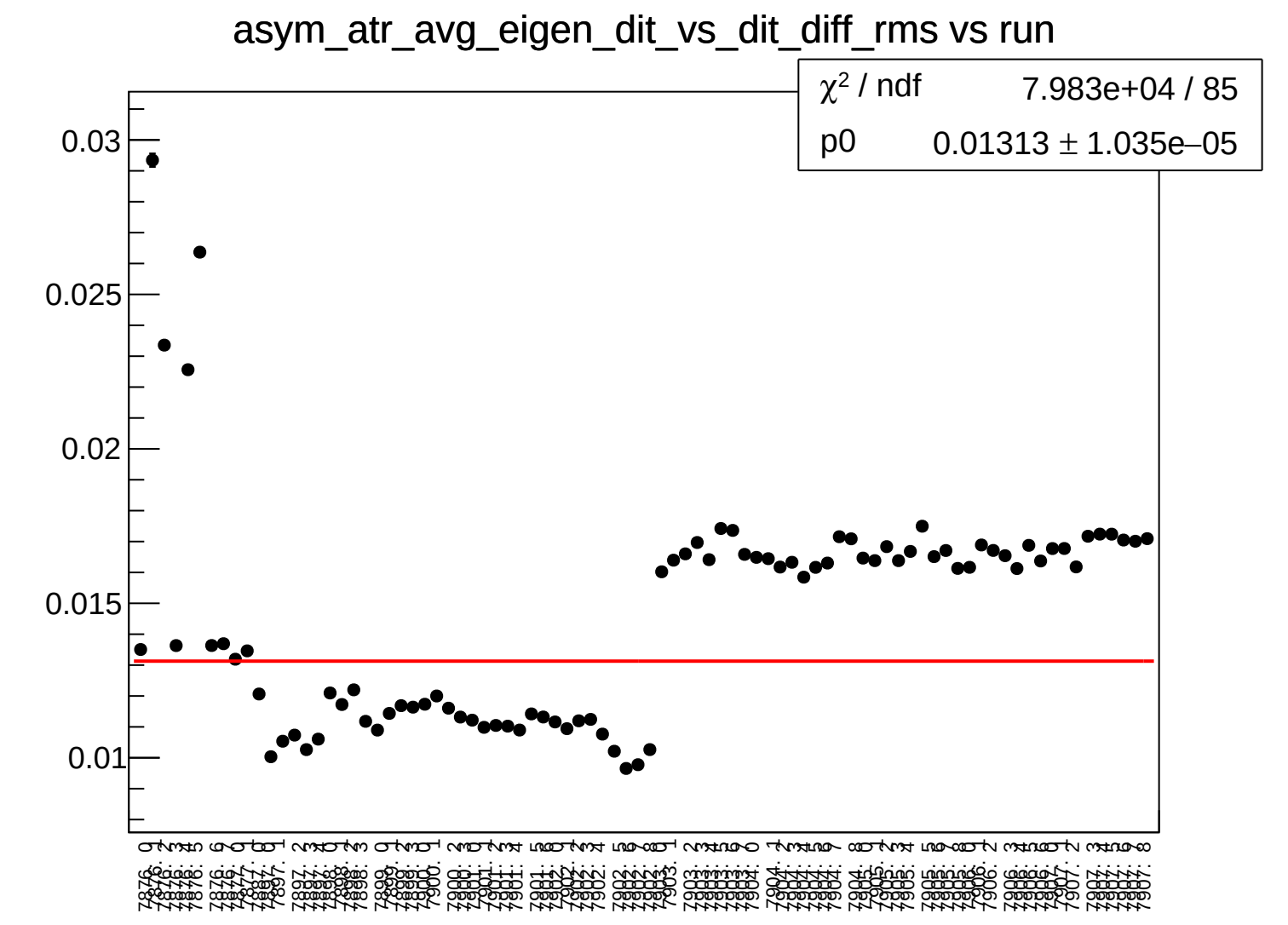

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.41 / 85
p0 −0.266 ± 0.4905
pull
Entries 86
Mean 73.36
Std Dev 42.06

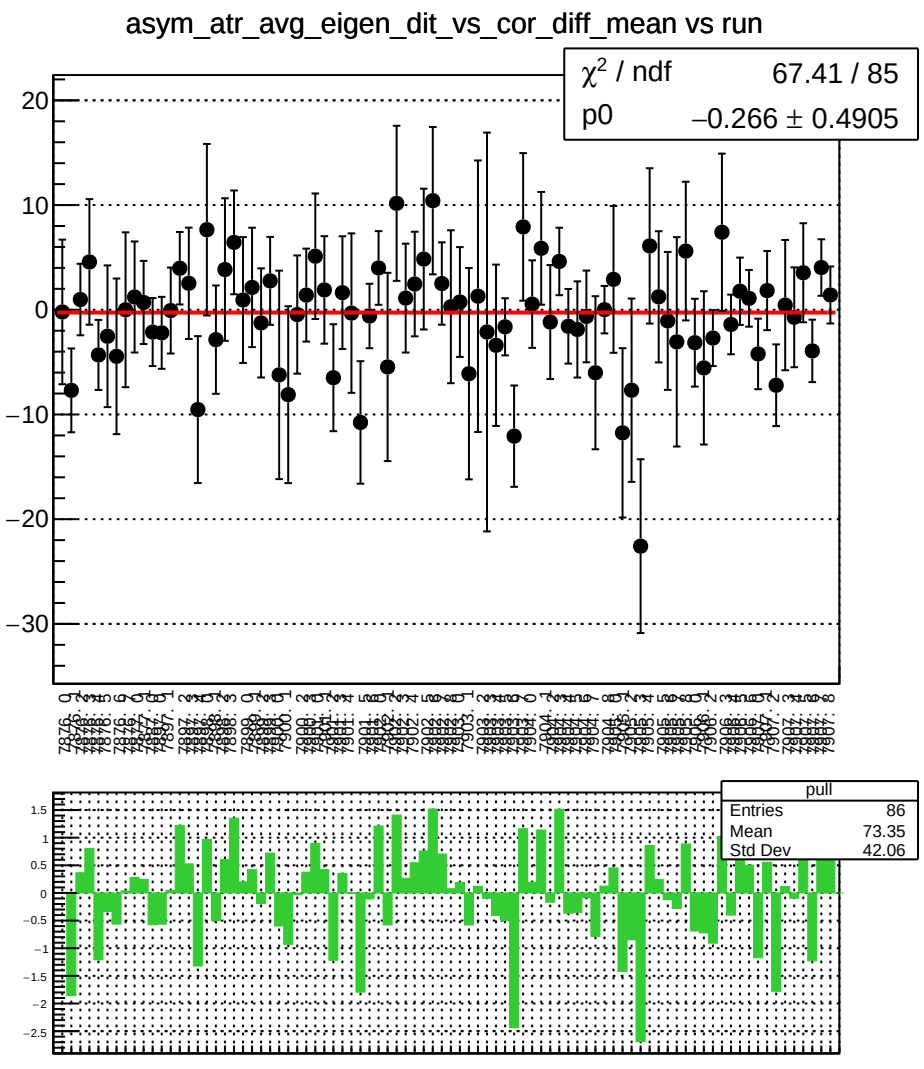

pull1D
Entries 86
Mean −0.01683
Std Dev 0.8852

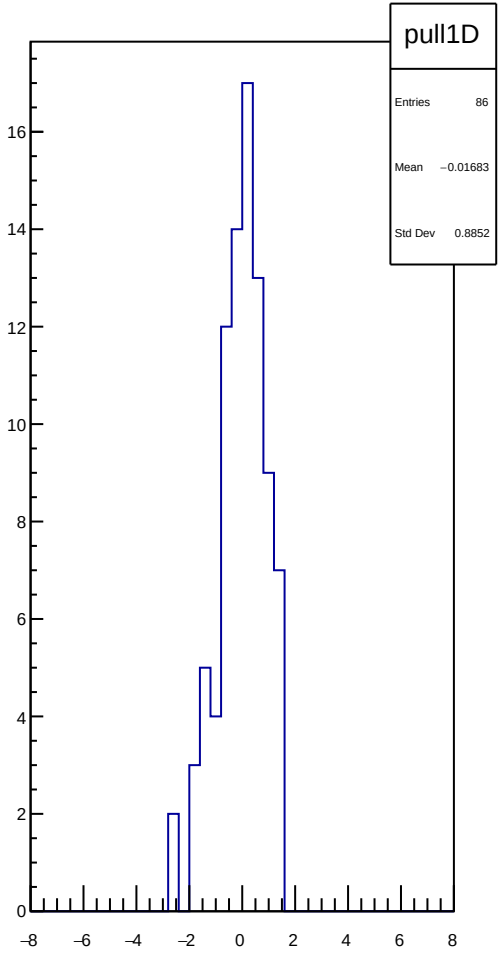

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.153e+05 / 85
p0 420.9 ± 0.3468
1800
1600
1400
1200
1000
800
600
400
200

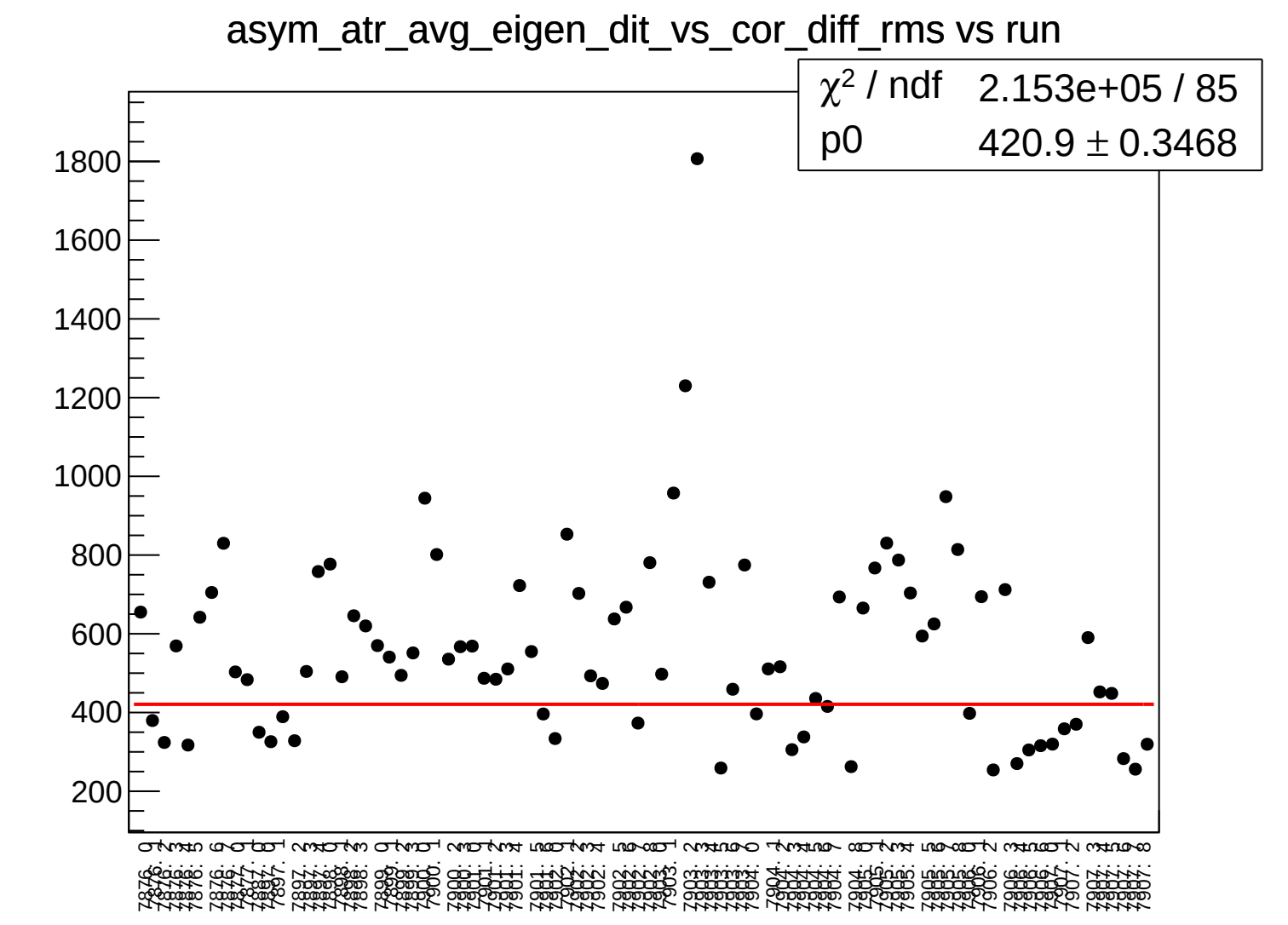

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 86.85 / 85
p0 −9.471e−06 ± 1.464e−05
pull
Entries 86
Mean 17.47
Std Dev 32.95

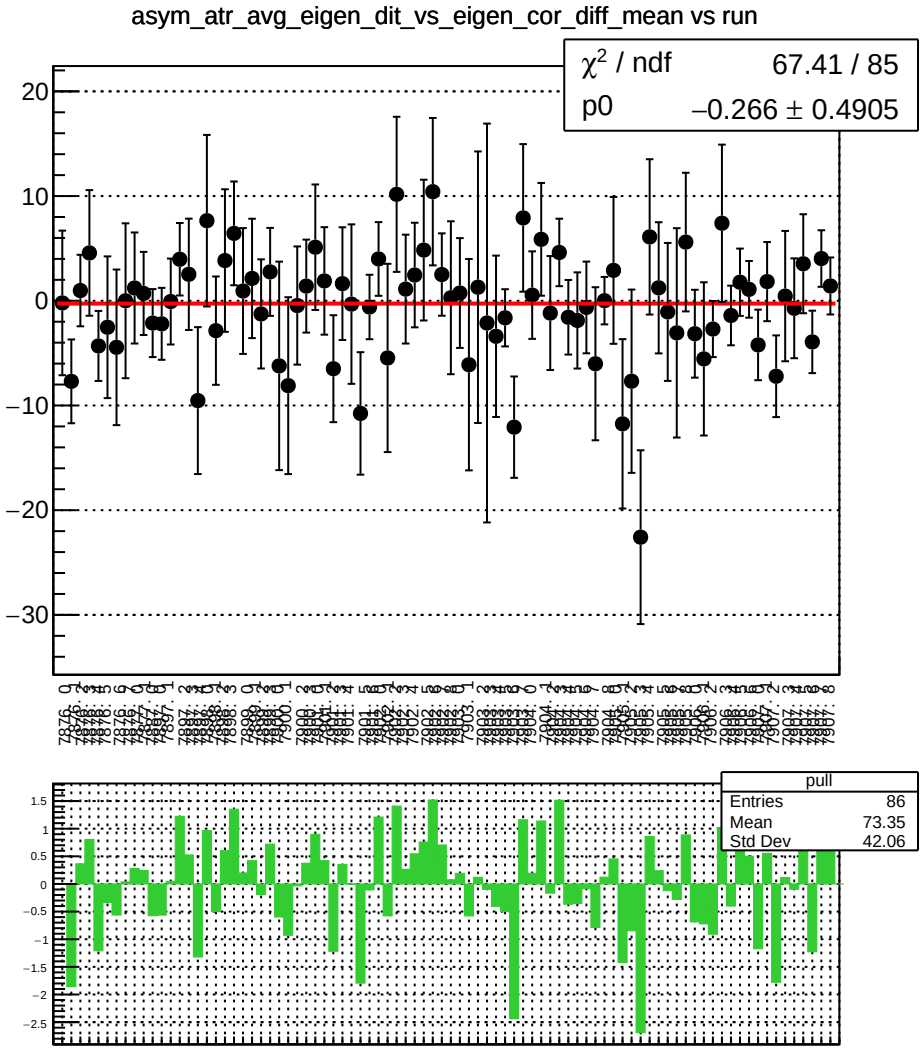

pull1D
Entries 86
Mean 0.0421
Std Dev 1.004

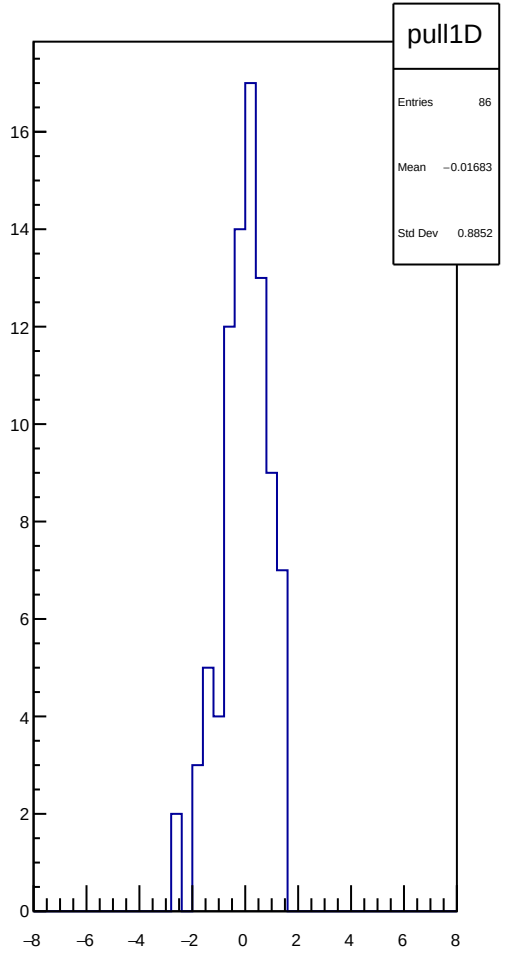

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.983e+04 / 85
p0 0.01313 ± 1.035e−05
0.03
0.025
0.02
0.015
0.01

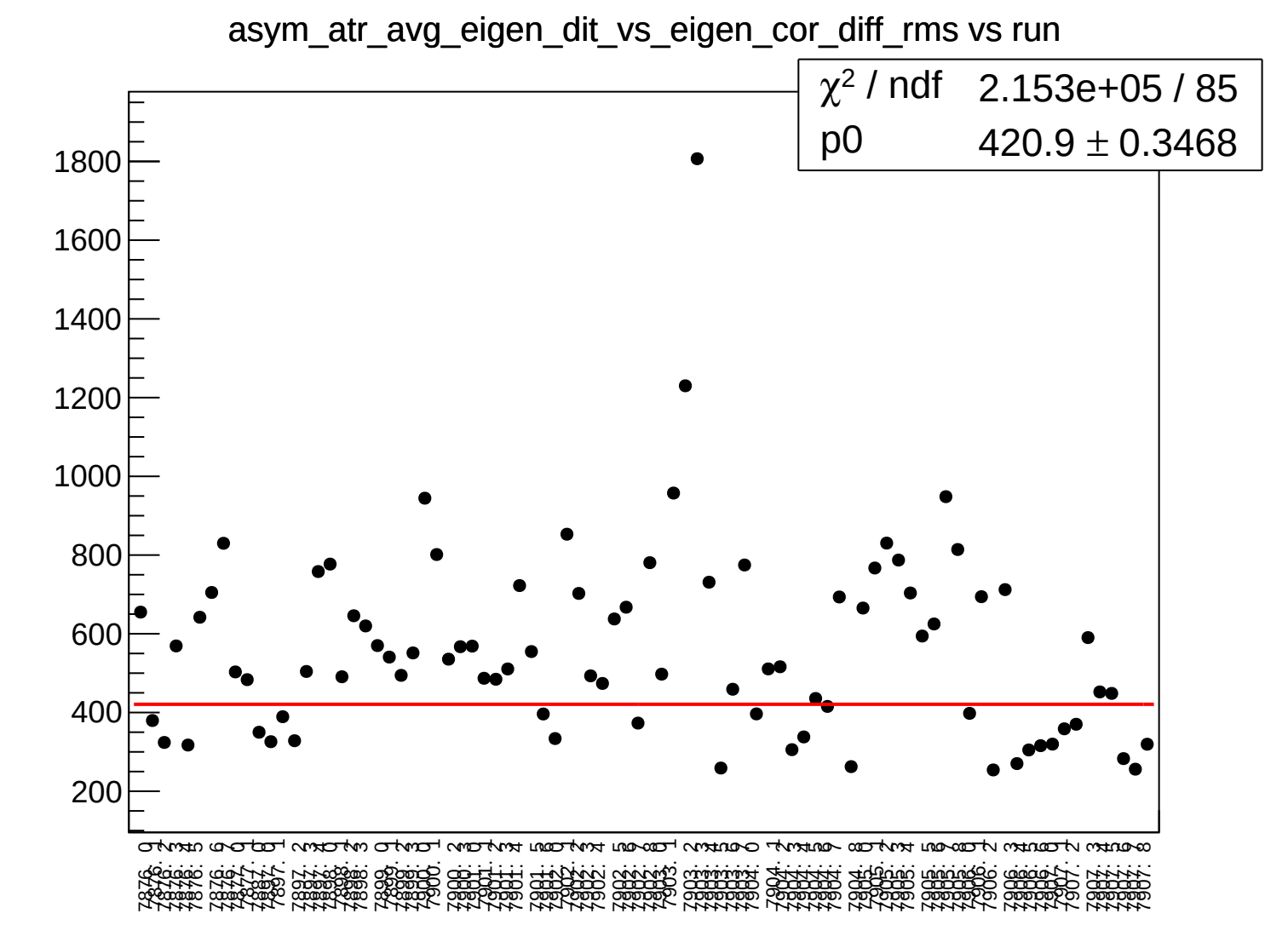

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.41 / 85
p0 −0.266 ± 0.4905
pull
Entries 86
Mean 73.35
Std Dev 42.06

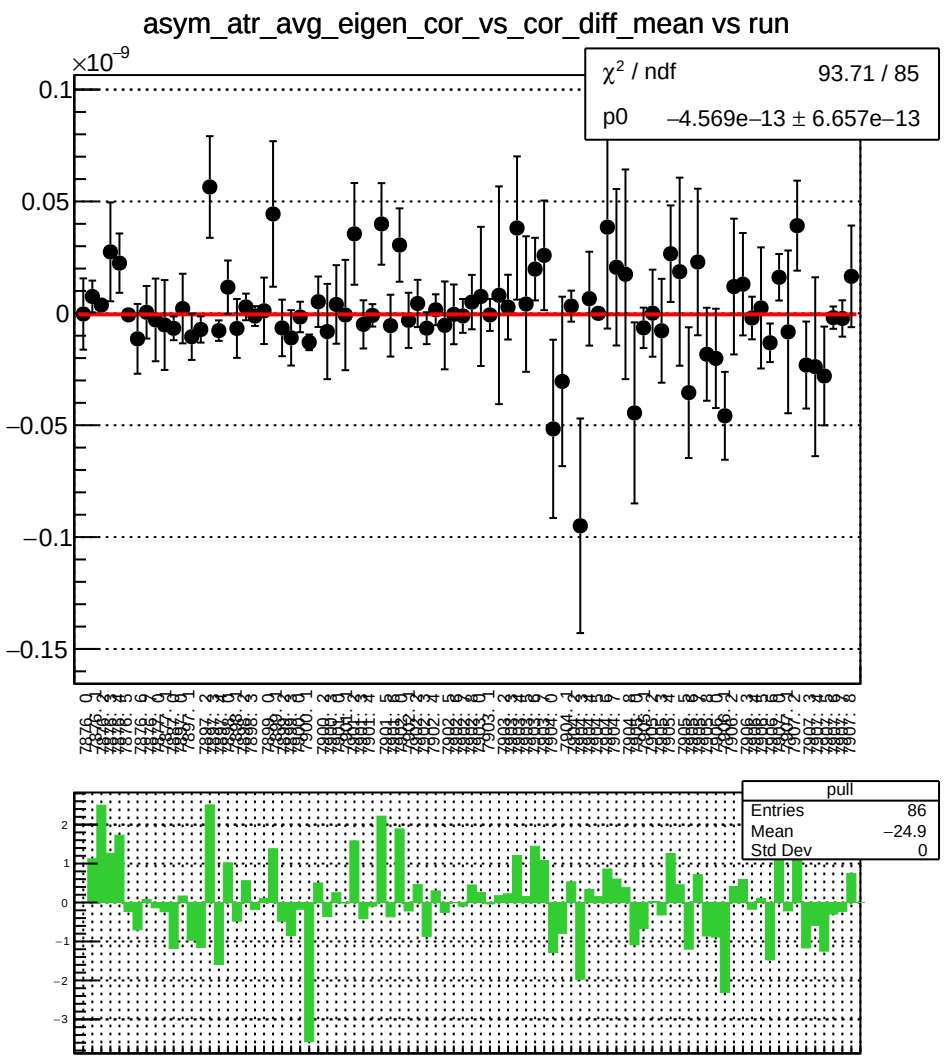

pull1D
Entries 86
Mean −0.01683
Std Dev 0.8852

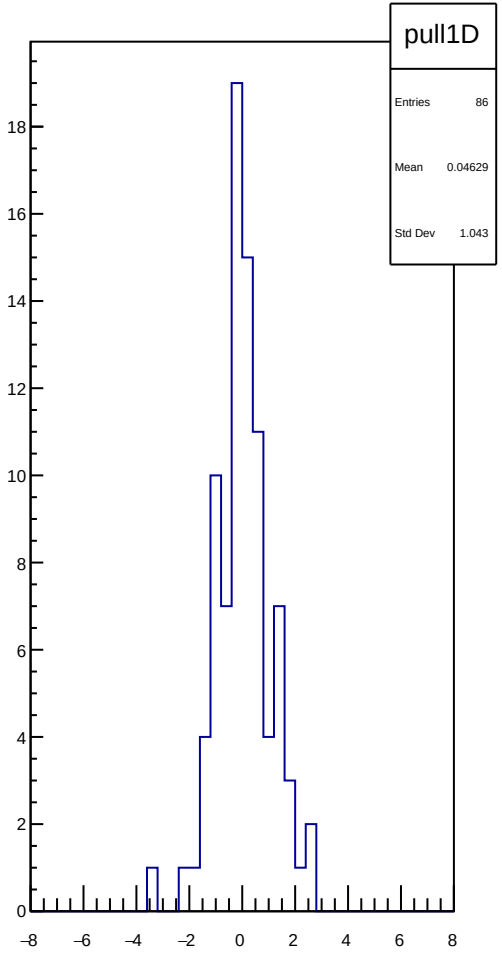

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.153e+05 / 85
p0 420.9 ± 0.3468
1800
1600
1400
1200
1000
800
600
400
200

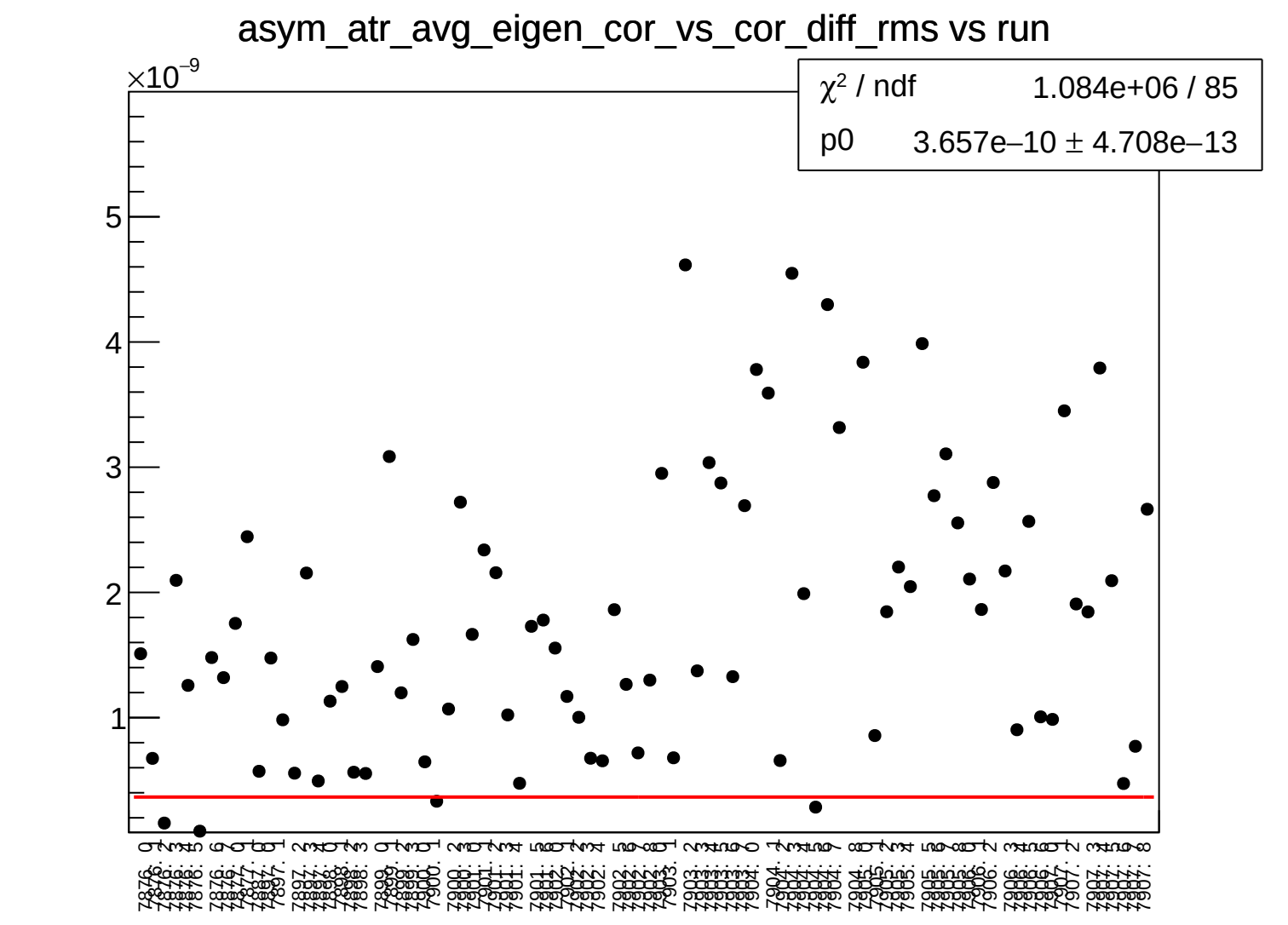

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.41 / 85
p0 −0.266 ± 0.4905
pull
Entries 86
Mean 73.35
Std Dev 42.06

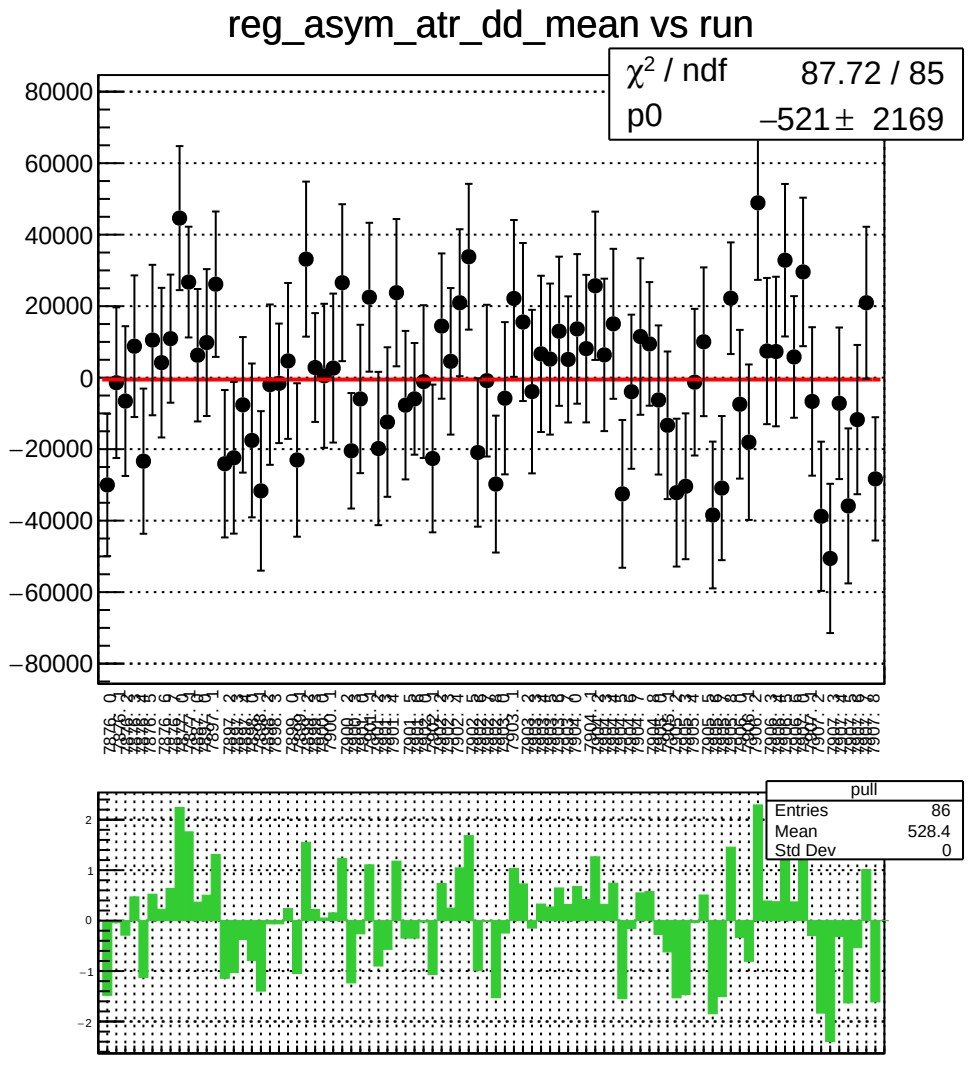

pull1D
Entries 86
Mean −0.01683
Std Dev 0.8852

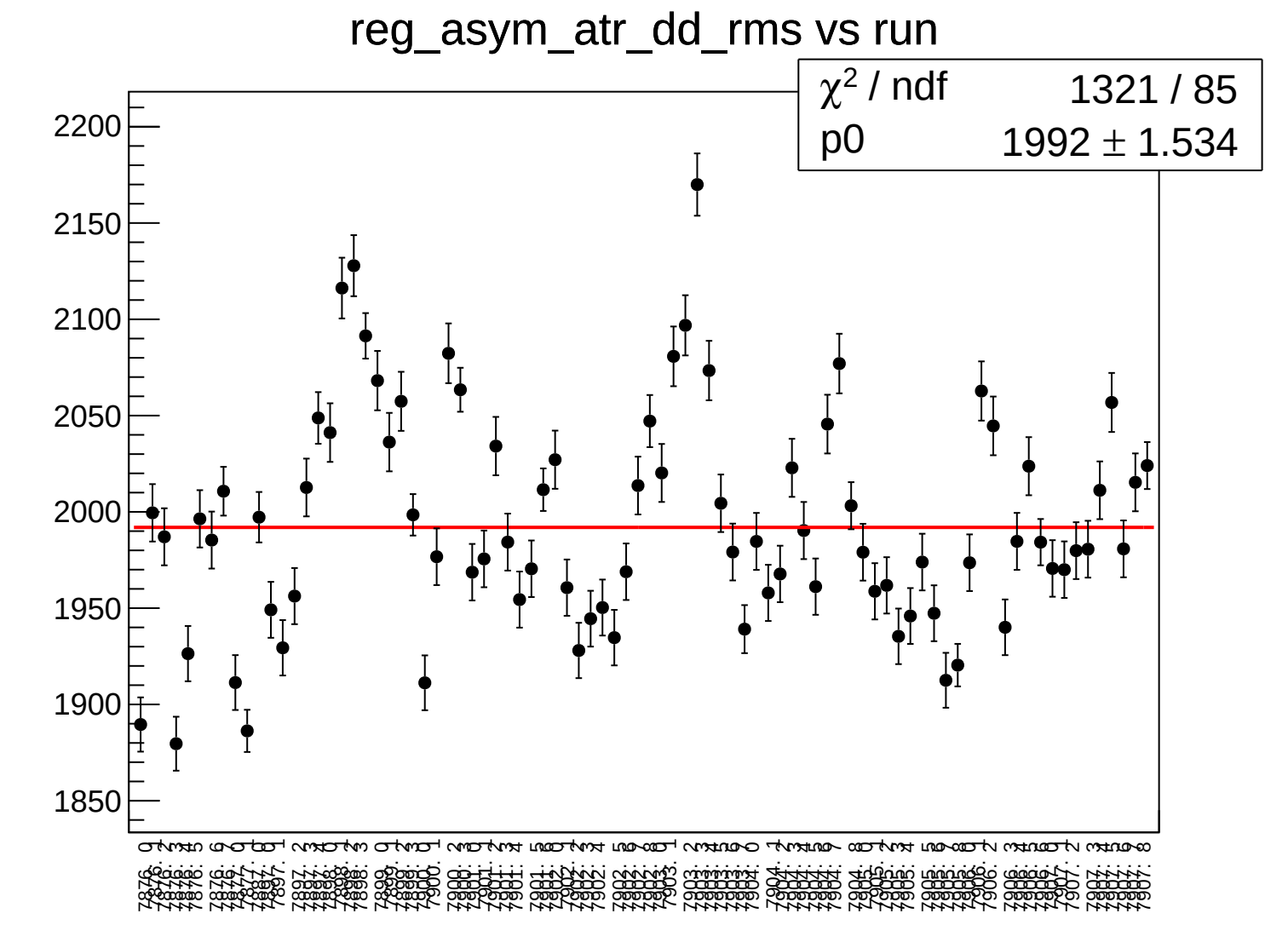

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.153e+05 / 85
p0 420.9 ± 0.3468
1800
1600
1400
1200
1000
800
600
400
200

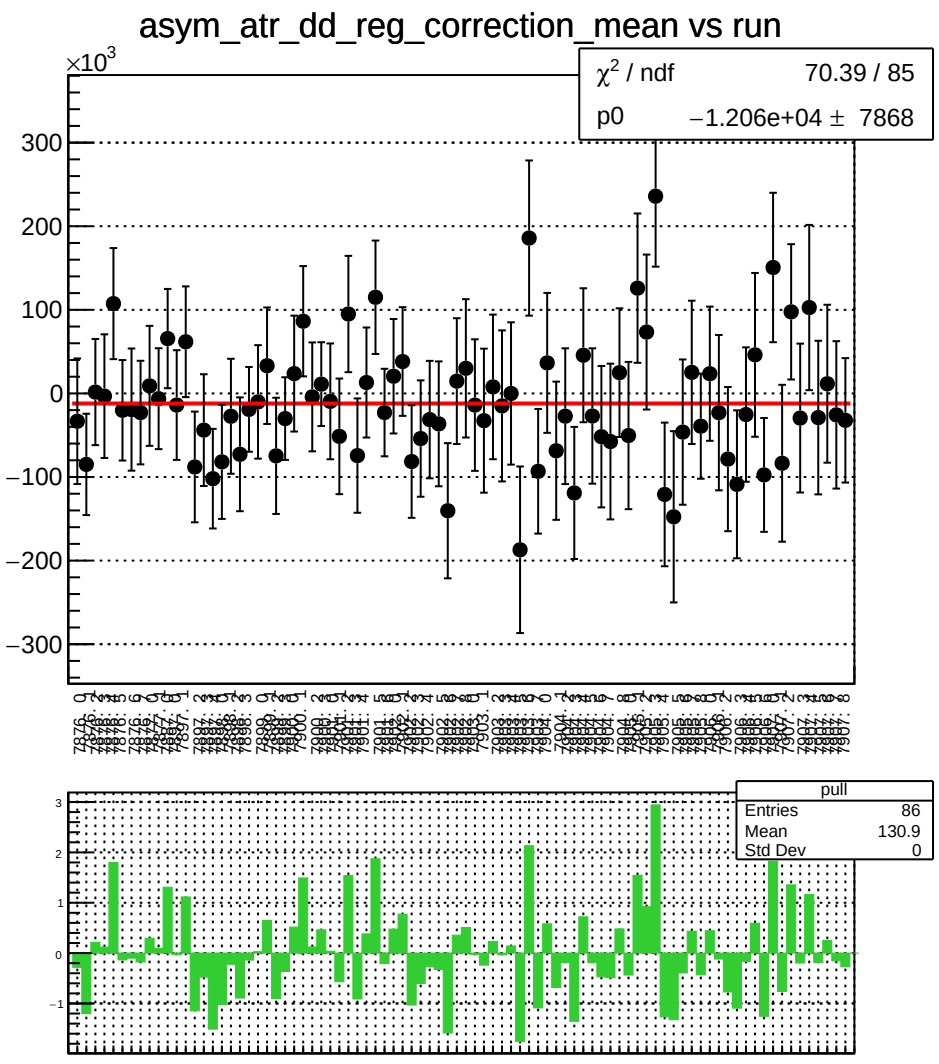

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 93.71 / 85
p0 −4.569e−13 ± 6.657e−13
pull
Entries 86
Mean −24.9
Std Dev 0

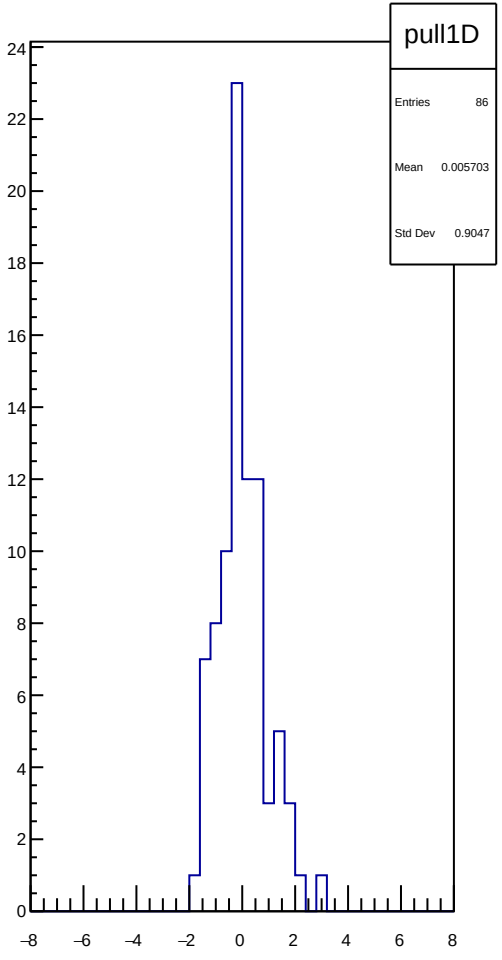

pull1D
Entries 86
Mean 0.04629
Std Dev 1.043

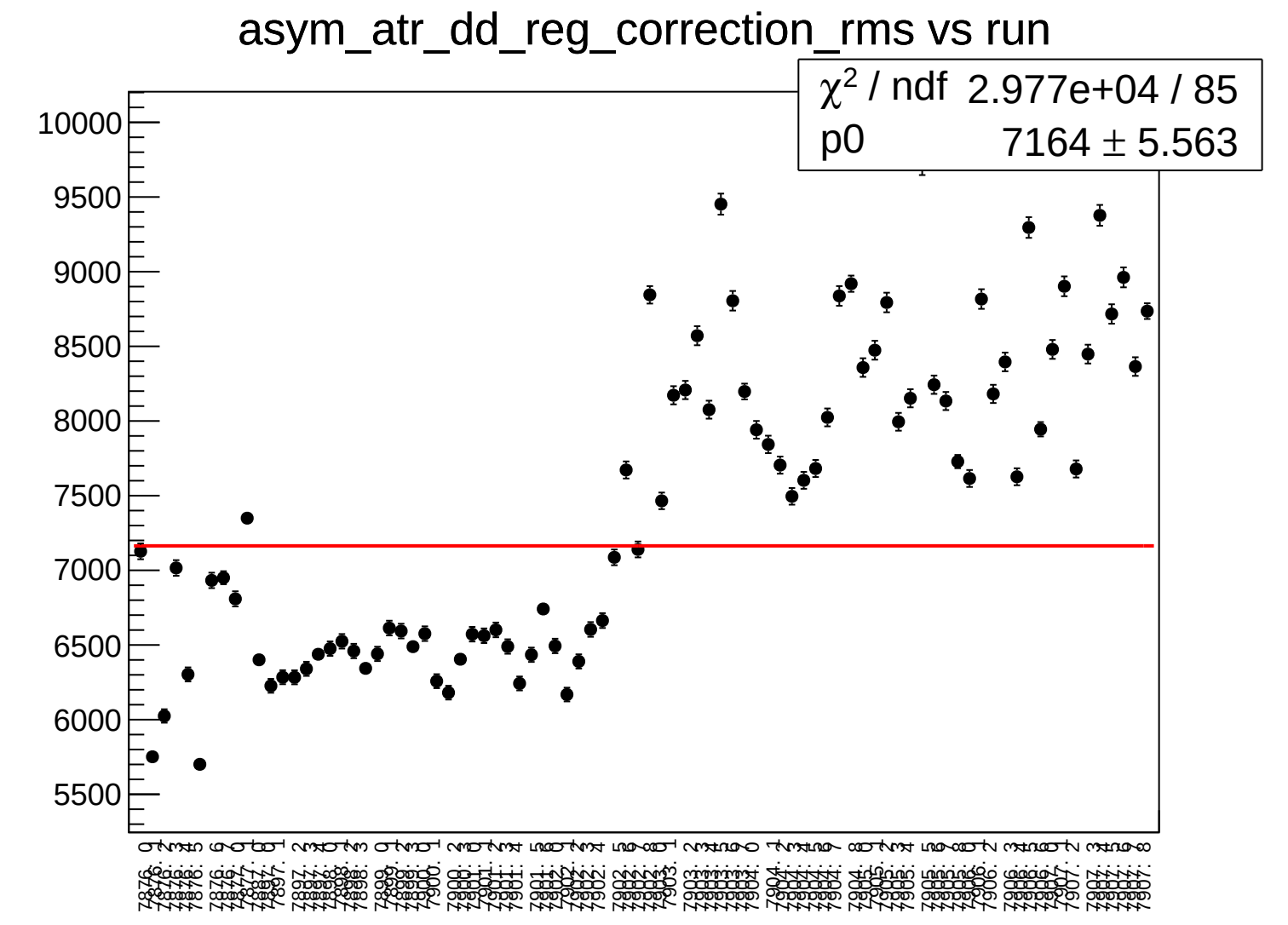

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.084e+06 / 85
p0 3.657e−10 ± 4.708e−13
5
4
3
2
1

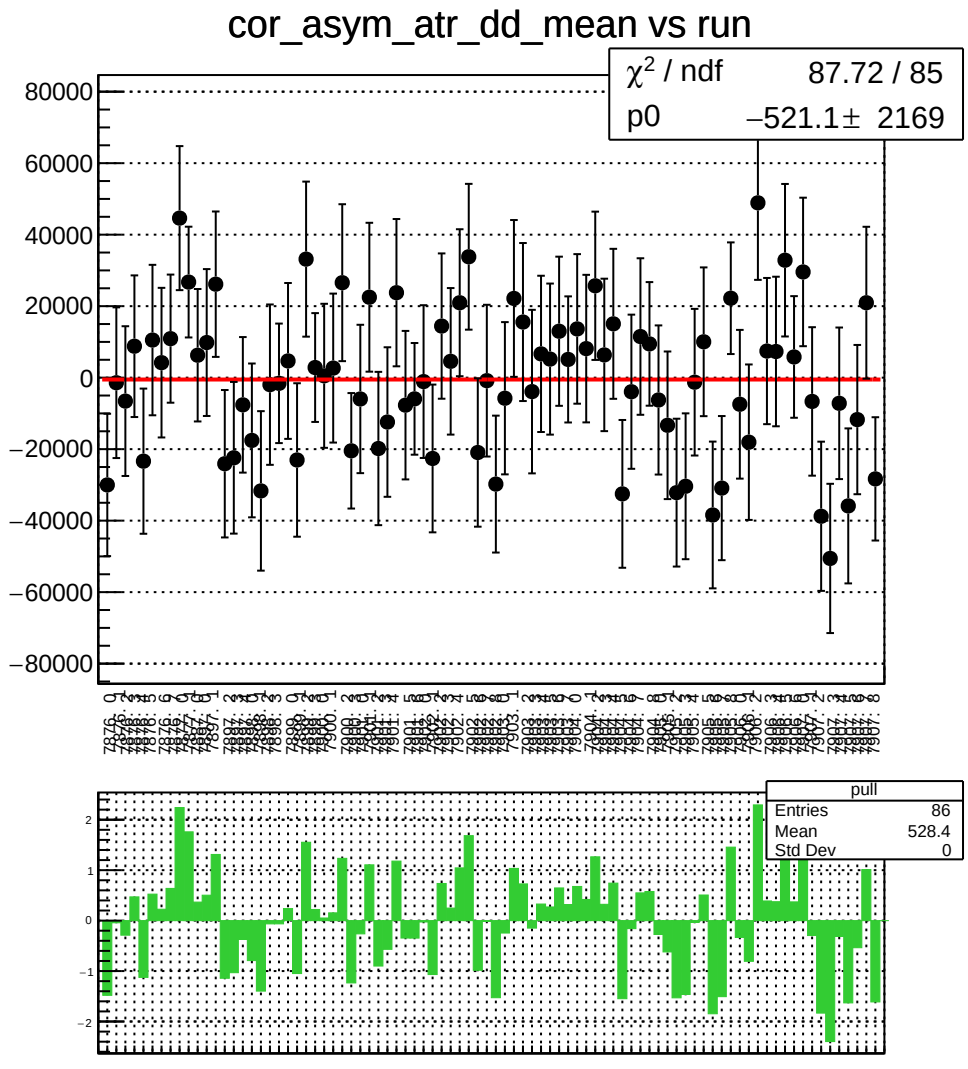

reg_asym_atr_dd_mean vs run
χ² / ndf 87.72 / 85
p0 −521 ± 2169
pull
Entries 86
Mean 528.4
Std Dev 0
pull1D
Entries 86
Mean −0.005595
Std Dev 1.01

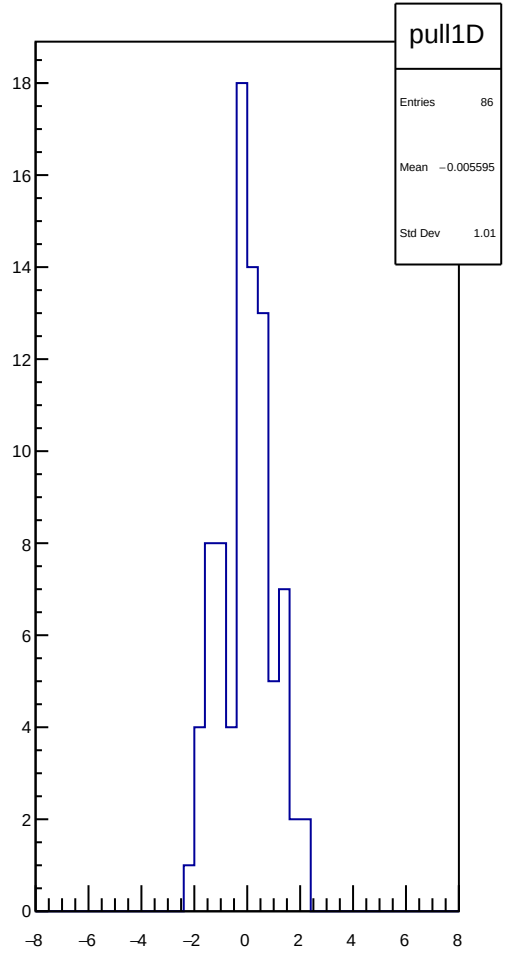

reg_asym_atr_dd_rms vs run
χ² / ndf 1321 / 85
p0 1992 ± 1.534
2200
2150
2100
2050
2000
1950
1900
1850

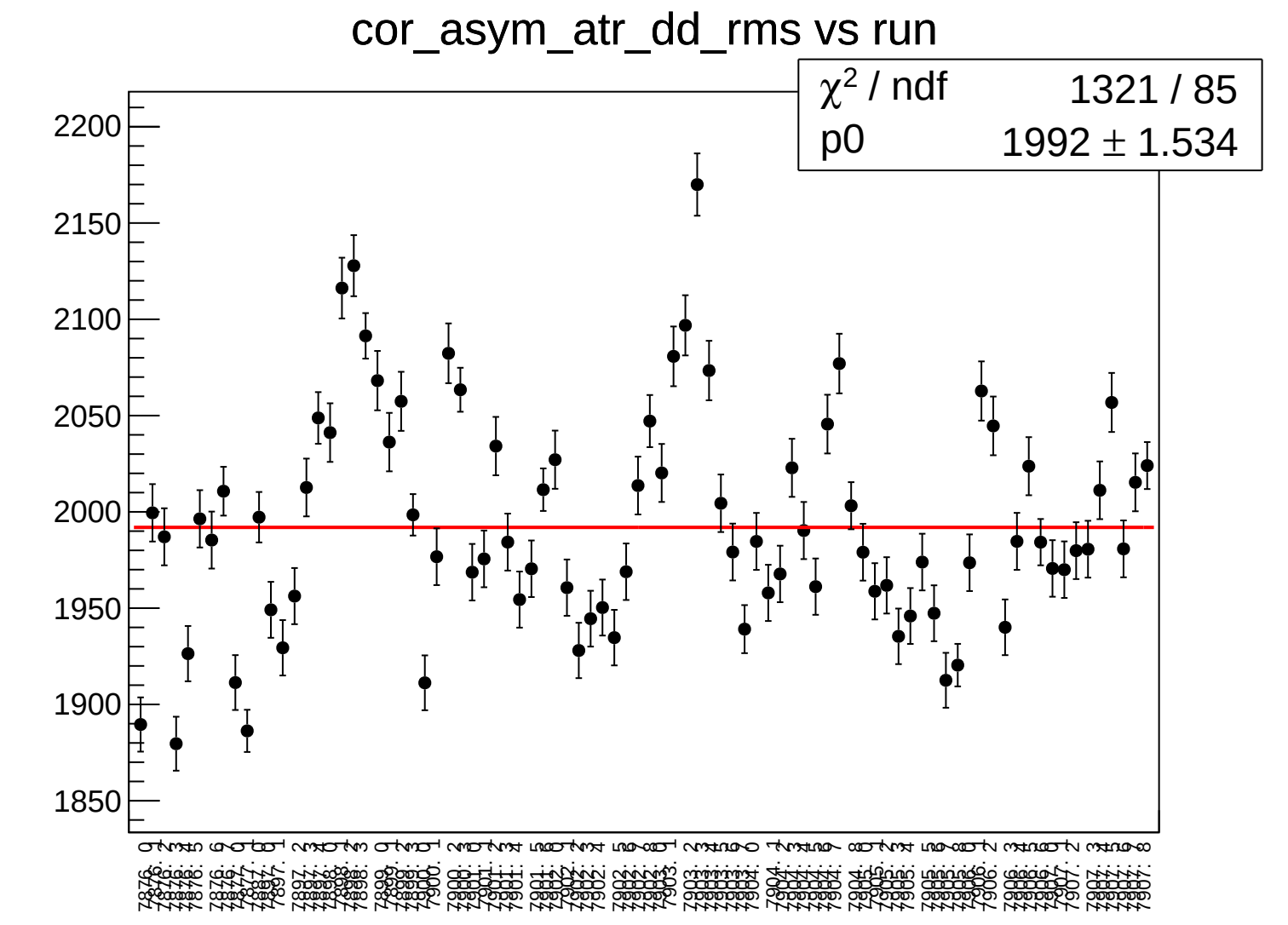

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 70.39 / 85
p0 −1.206e+04 ± 7868
pull
Entries 86
Mean 130.9
Std Dev 0

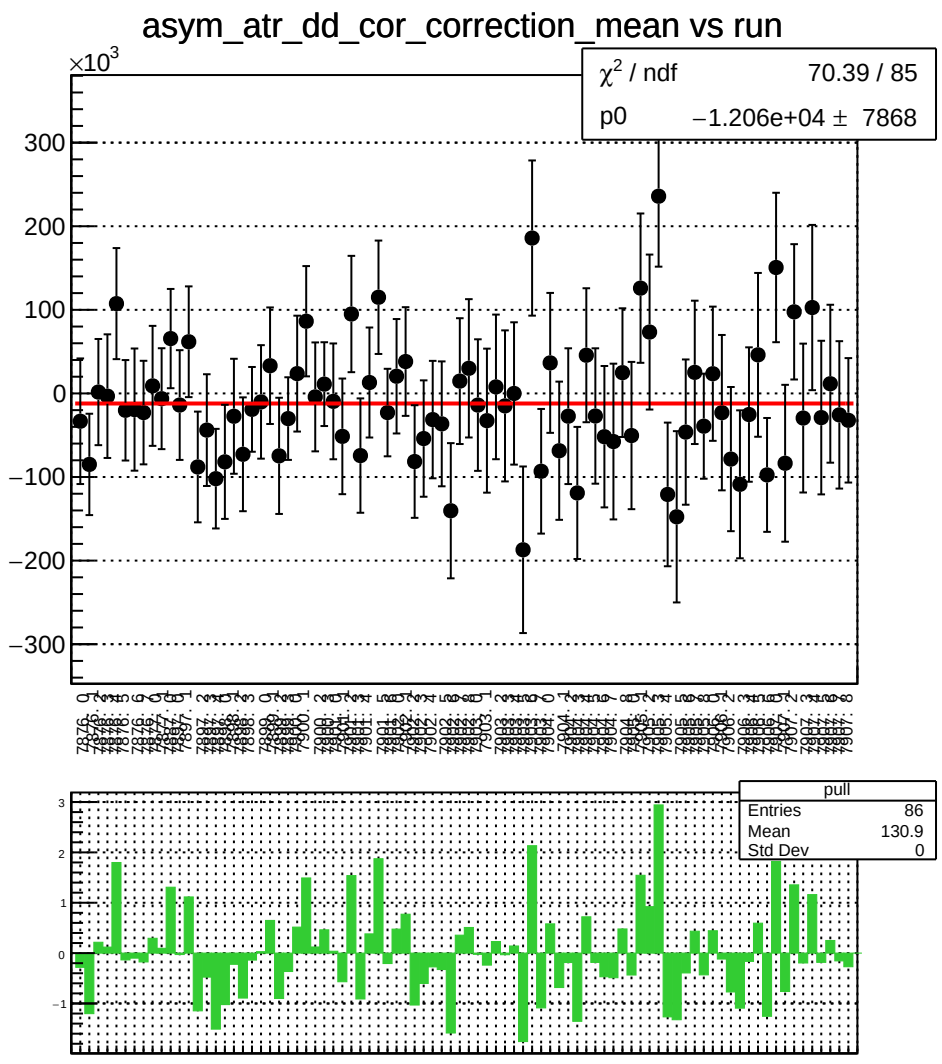

pull1D
Entries 86
Mean 0.005703
Std Dev 0.9047

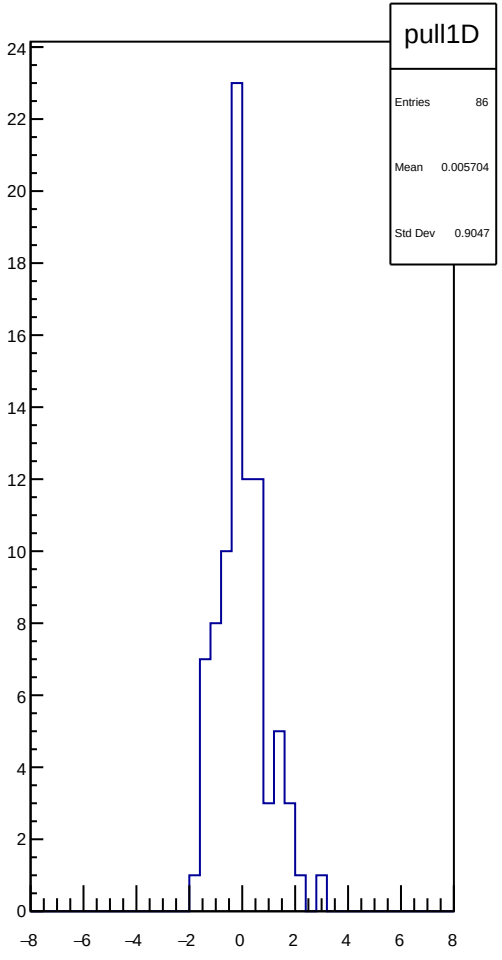

asym_atr_dd_reg_correction_rms vs run
χ^2 / ndf 2.977e+04 / 85
p0 7164 ± 5.563
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500

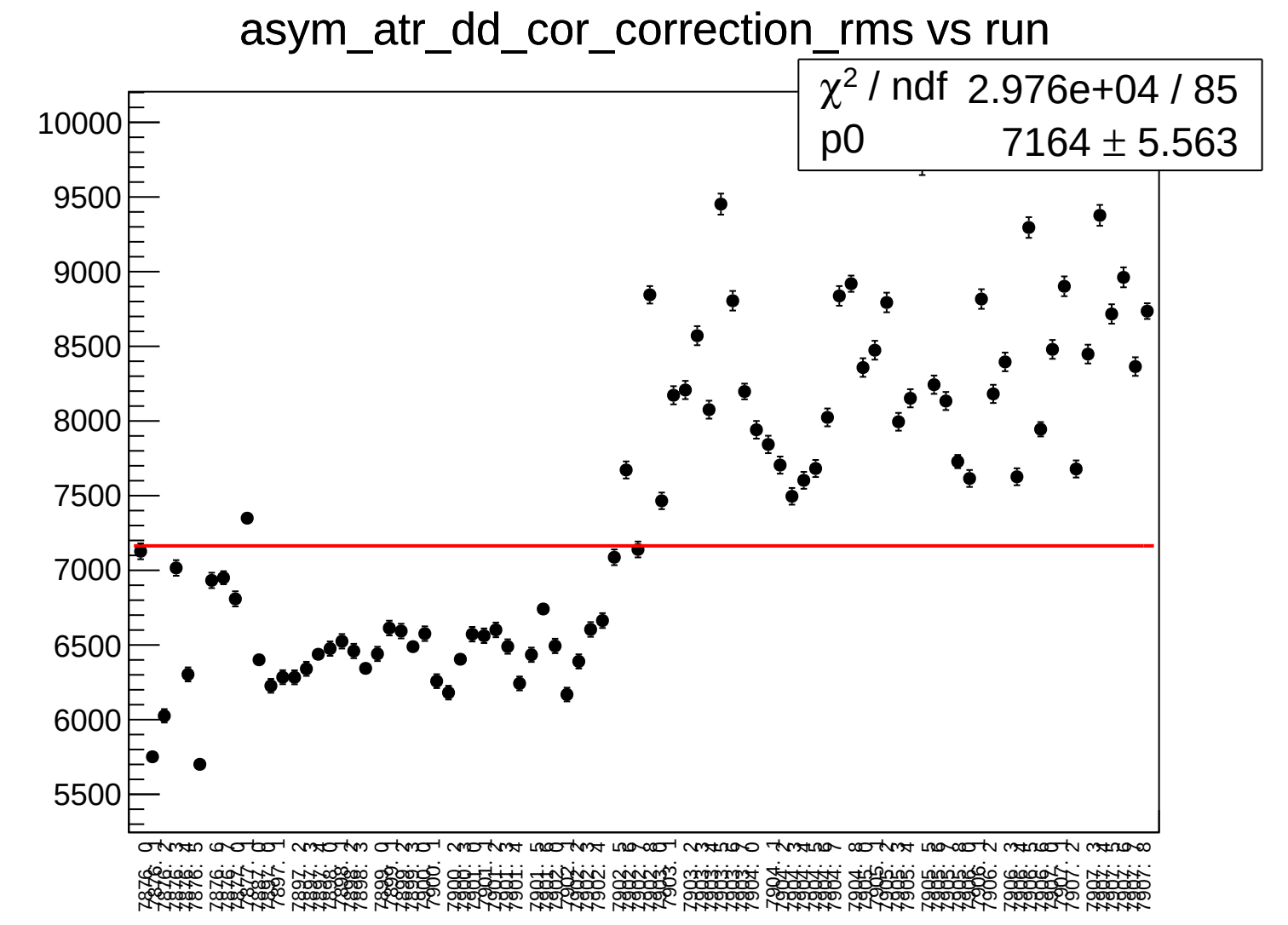

cor_asym_atr_dd_mean vs run
χ² / ndf 87.72 / 85
p0 −521.1± 2169
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 528.4
Std Dev 0
2
1
0
−1
−2

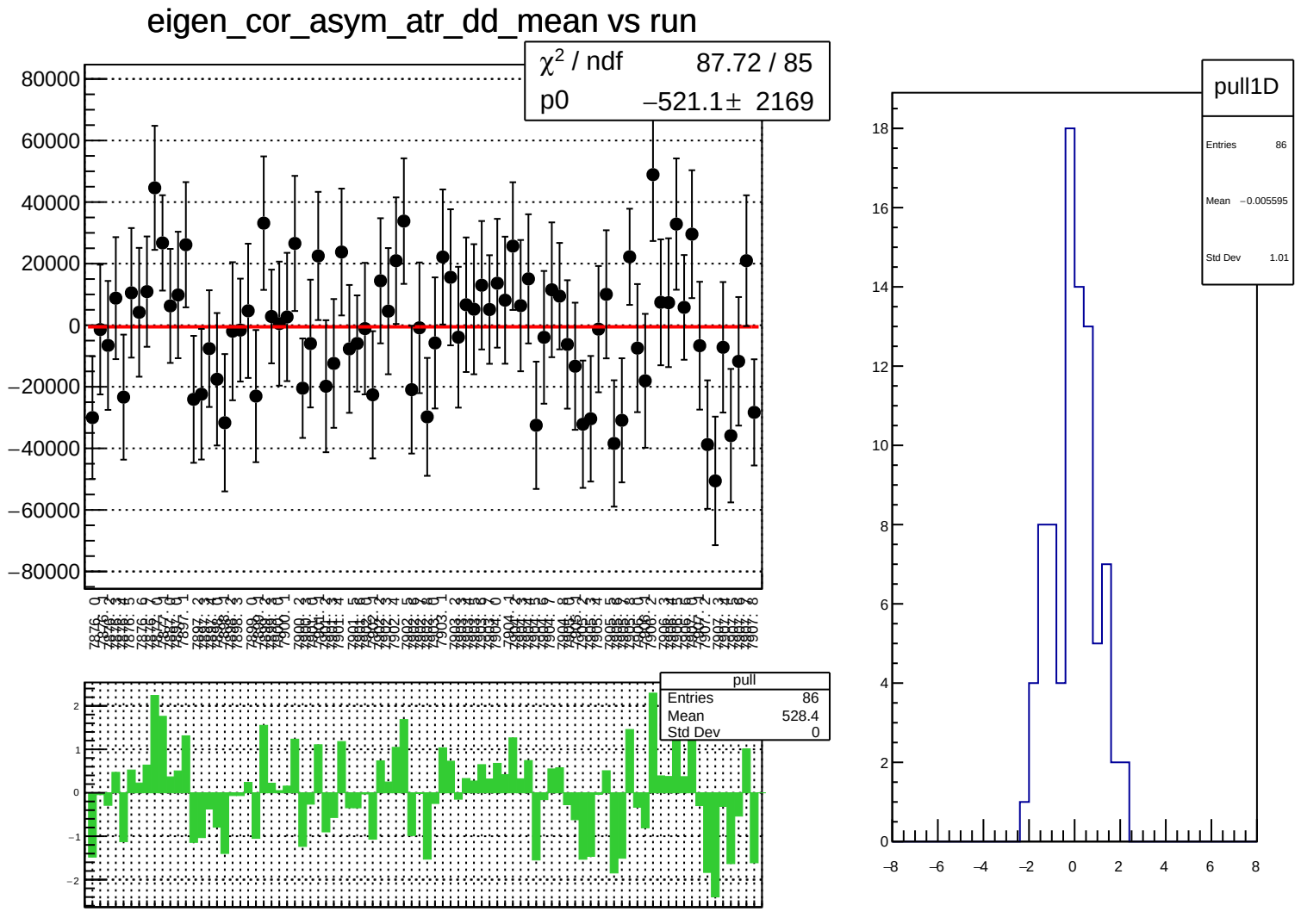

pull1D
Entries 86
Mean −0.005595
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

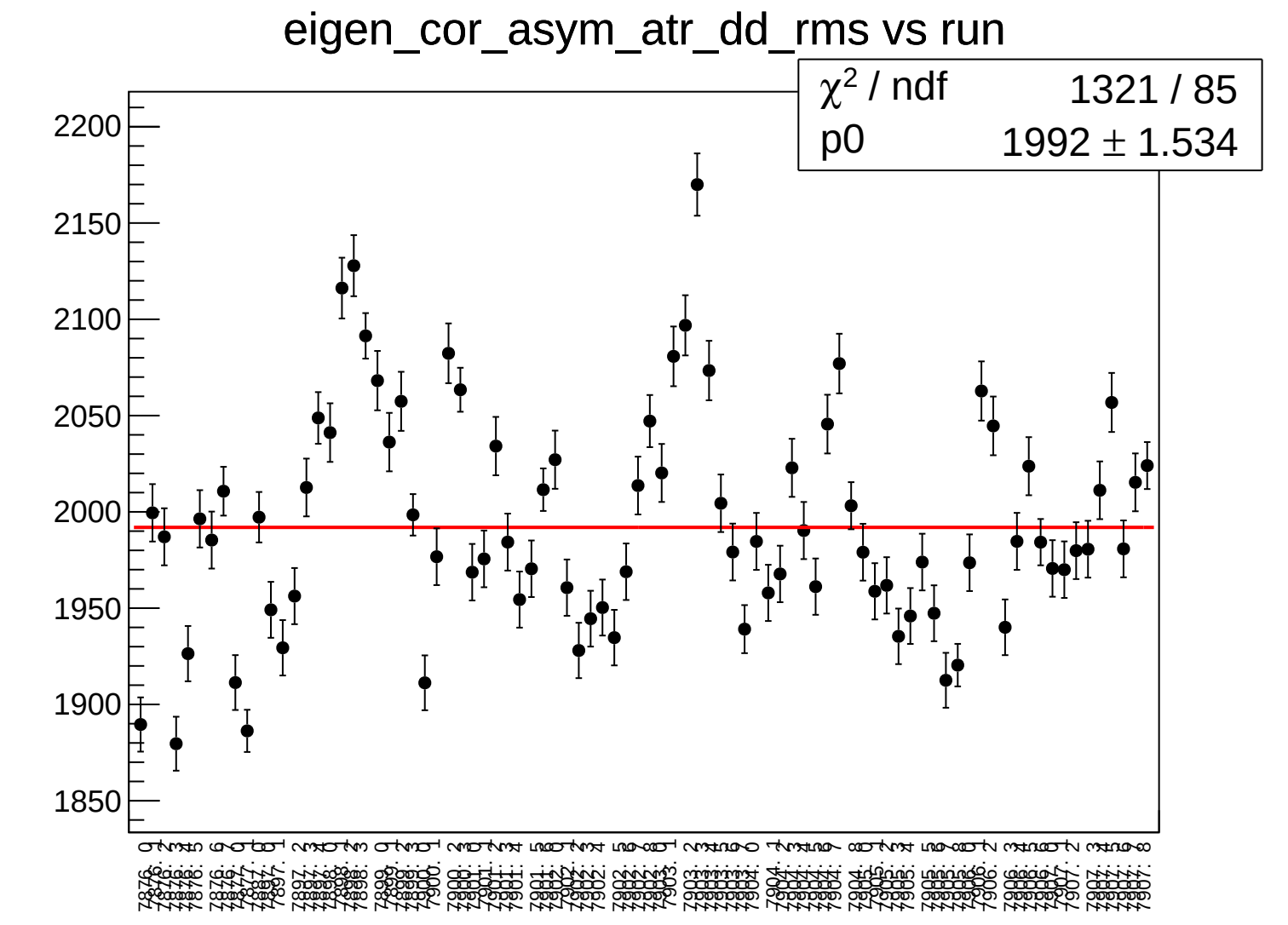

cor_asym_atr_dd_rms vs run
χ^2 / ndf 1321 / 85
p0 1992 ± 1.534
2200
2150
2100
2050
2000
1950
1900
1850

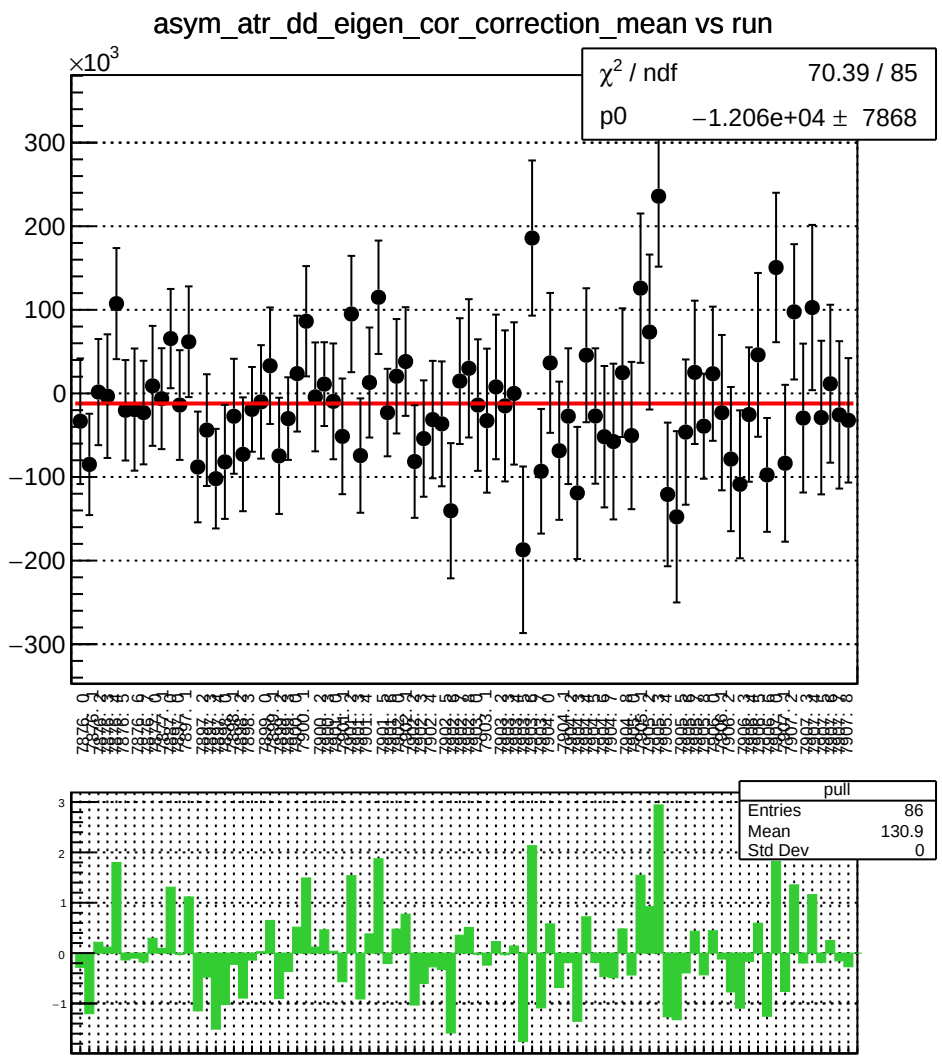

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 70.39 / 85
p0 −1.206e+04 ± 7868
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean 130.9
Std Dev 0
3
2
1
0
−1

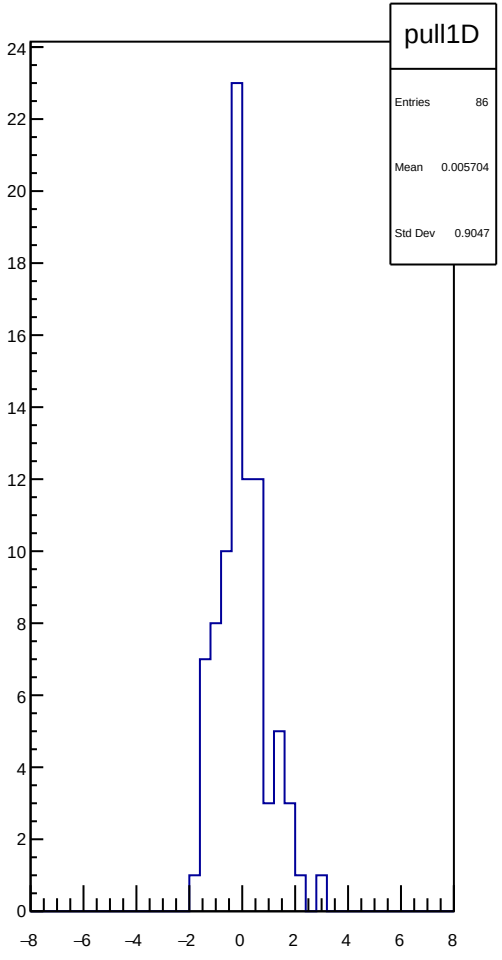

pull1D
Entries 86
Mean 0.005704
Std Dev 0.9047
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

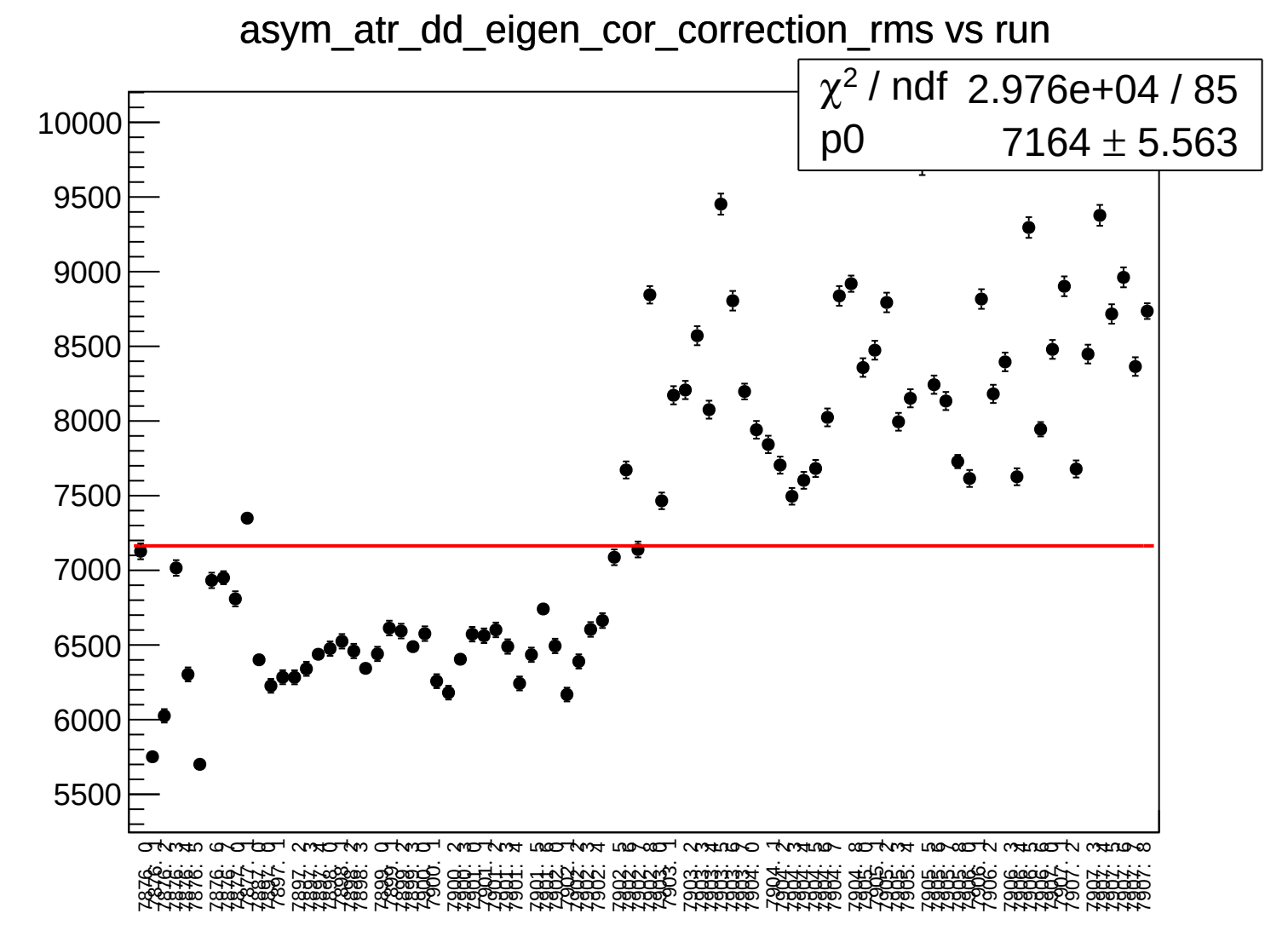

asym_atr_dd_cor_correction_rms vs run
χ^2 / ndf 2.976e+04 / 85
p0 7164 ± 5.563
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500

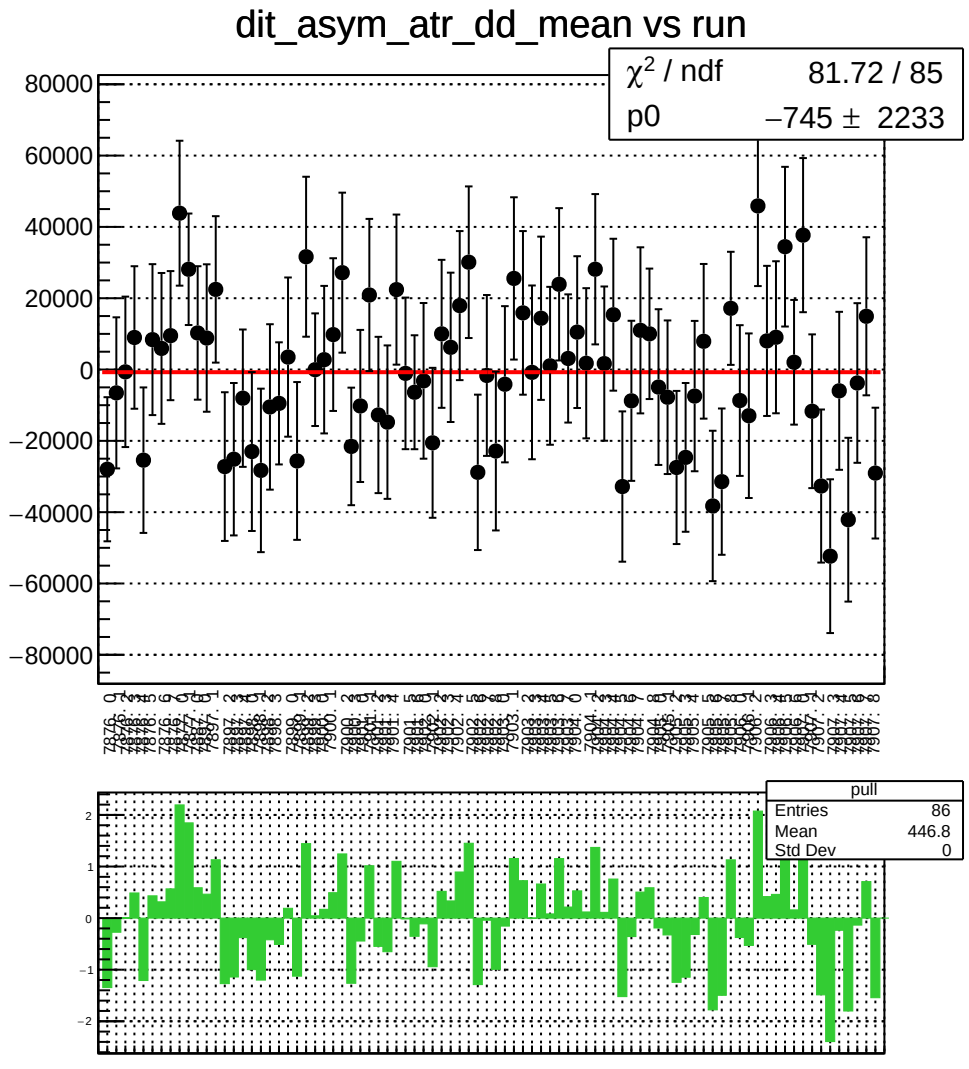

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 87.72 / 85
p0 −521.1± 2169
pull
Entries 86
Mean 528.4
Std Dev 0
pull1D
Entries 86
Mean −0.005595
Std Dev 1.01

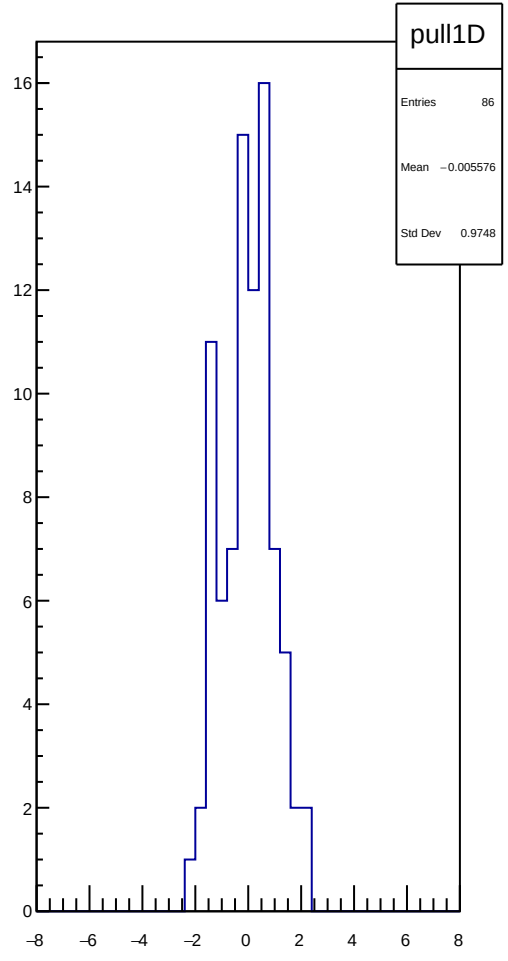

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 1321 / 85
p0 1992 ± 1.534
2200
2150
2100
2050
2000
1950
1900
1850

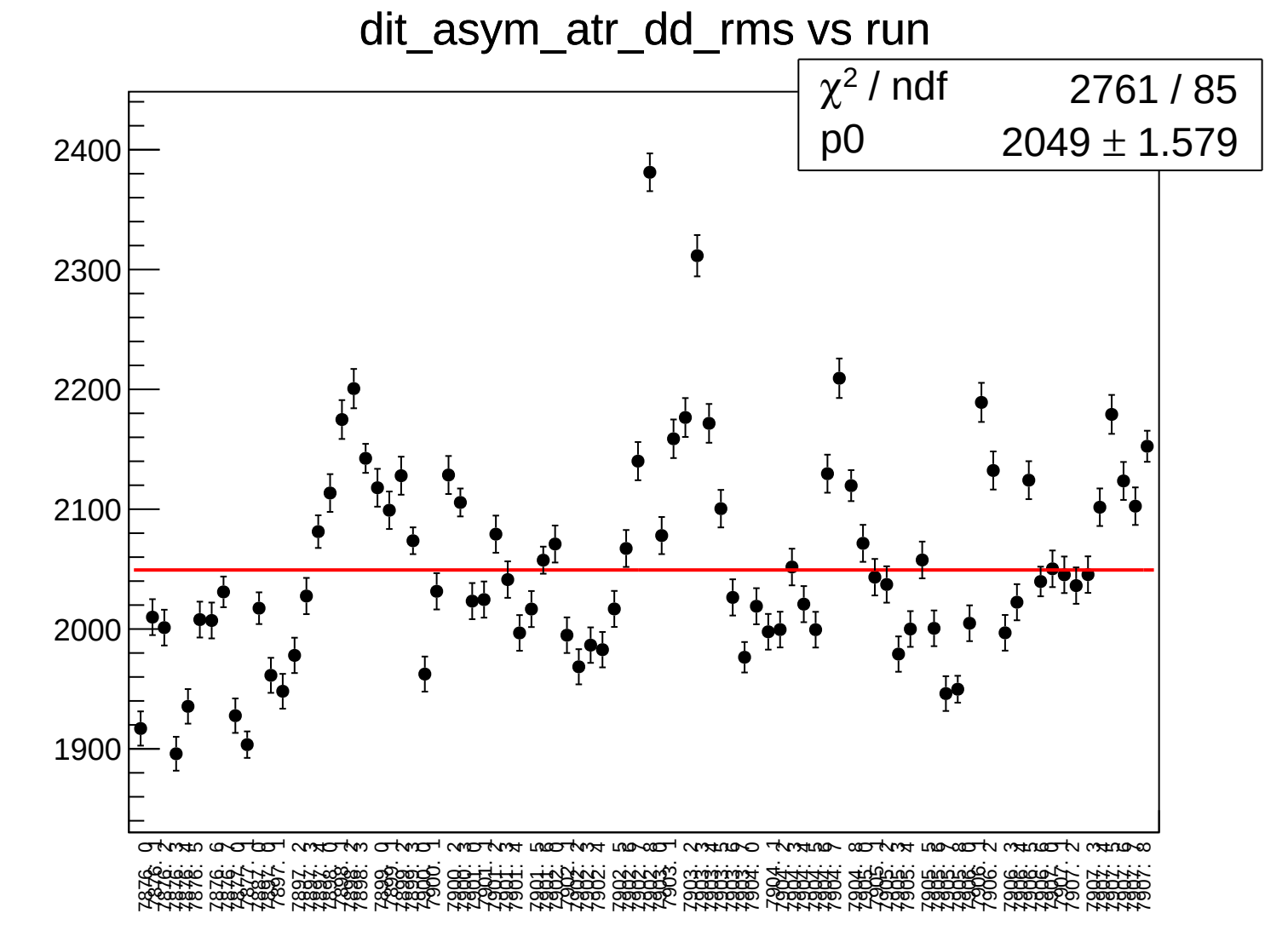

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.39 / 85
p0 −1.206e+04 ± 7868
pull
Entries 86
Mean 130.9
Std Dev 0

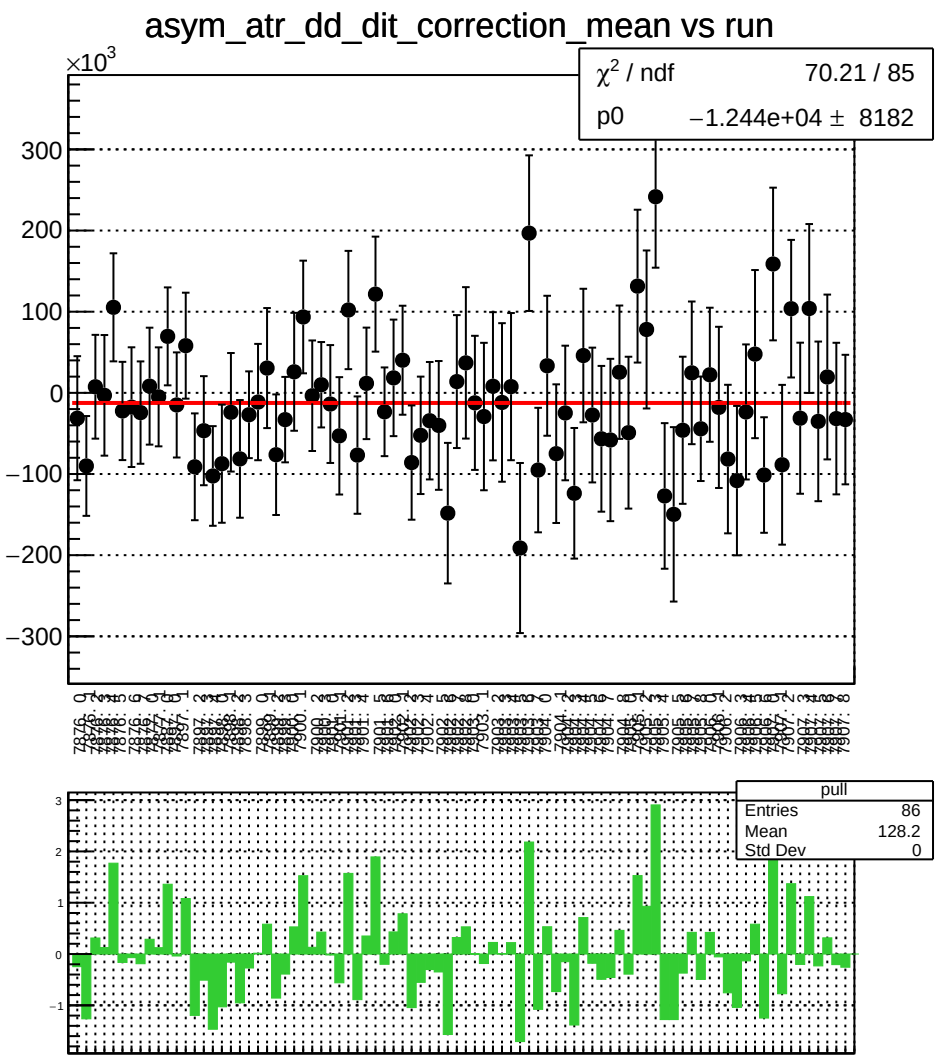

pull1D
Entries 86
Mean 0.005704
Std Dev 0.9047

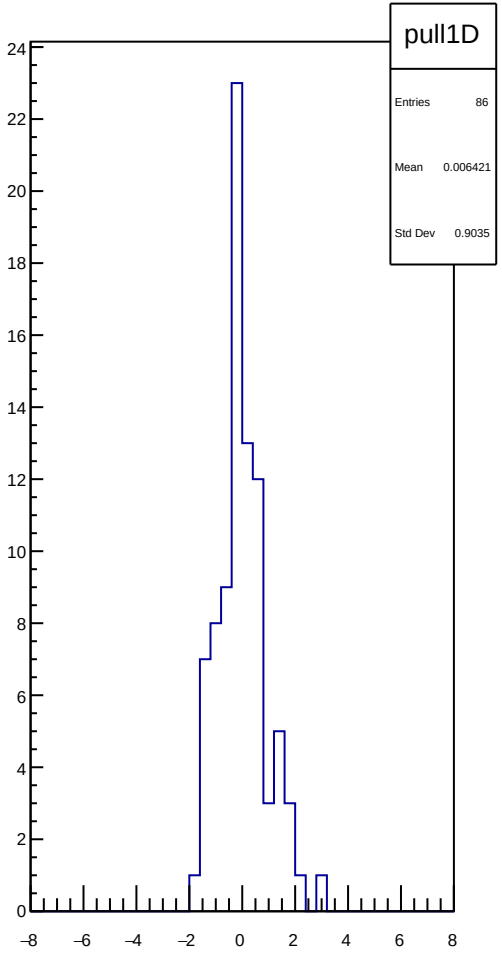

asym_atr_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 2.976e+04 / 85
p0 7164 ± 5.563
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500

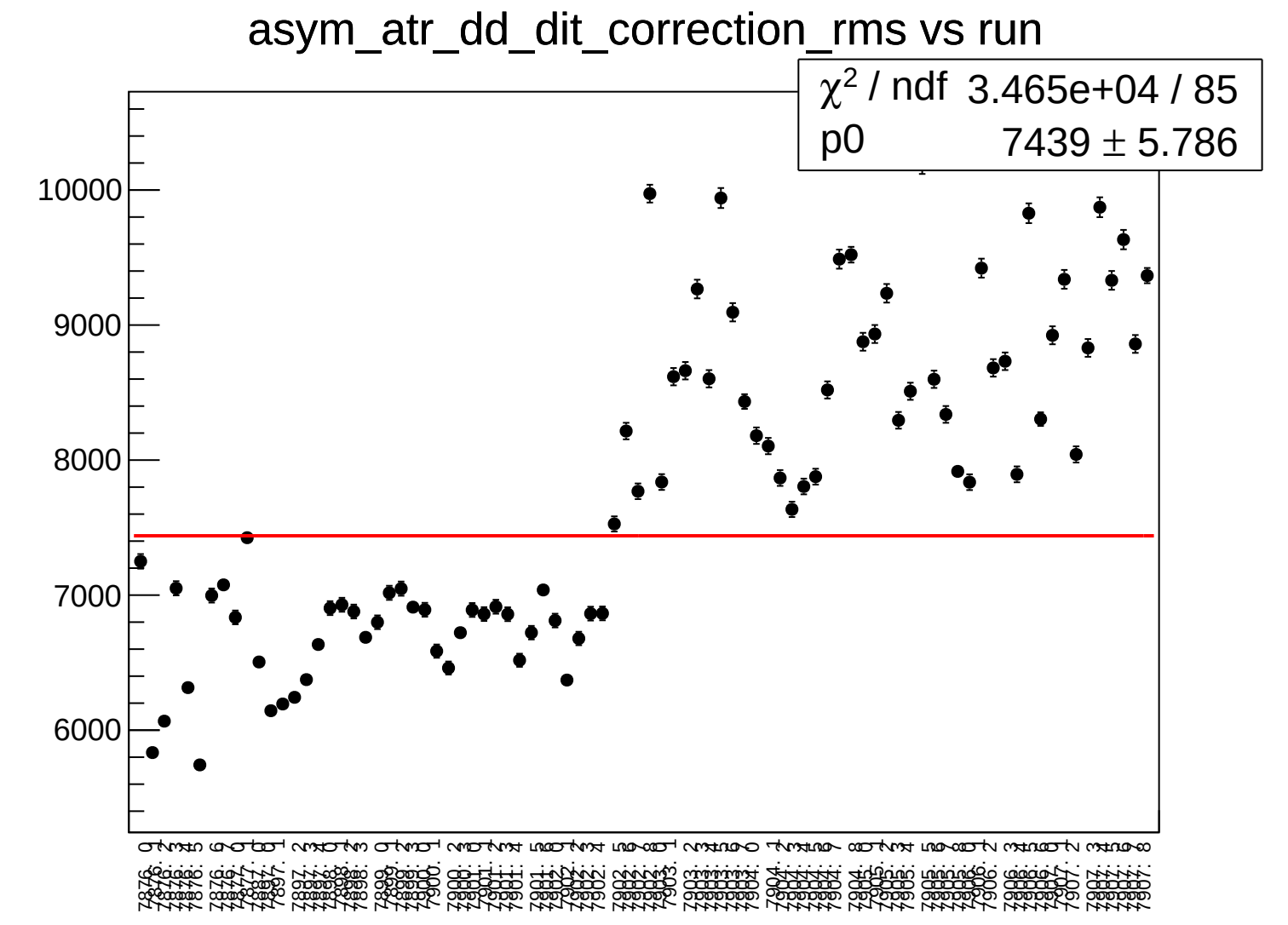

dit_asym_atr_dd_mean vs run
χ² / ndf 81.72 / 85
p0 −745 ± 2233
pull
Entries 86
Mean 446.8
Std Dev 0

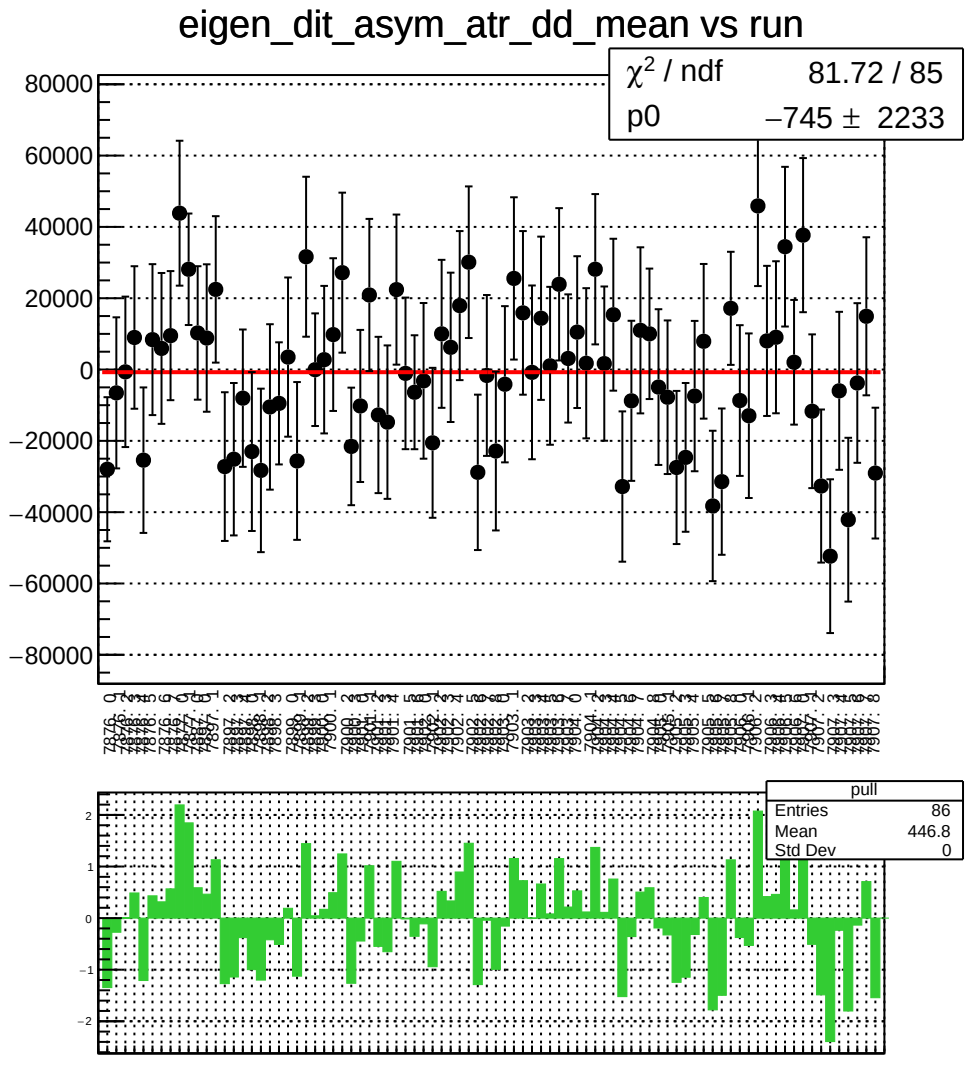

pull1D
Entries 86
Mean −0.005576
Std Dev 0.9748

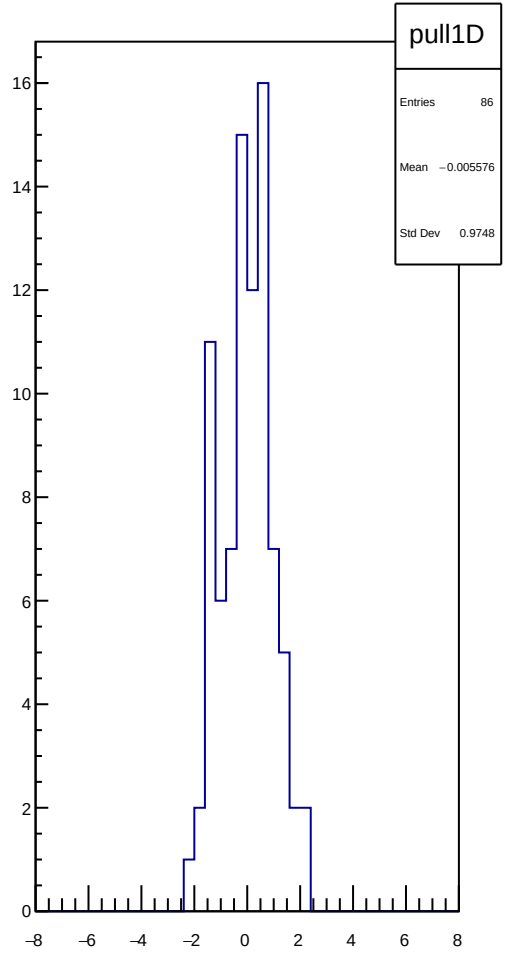

dit_asym_atr_dd_rms vs run
χ² / ndf 2761 / 85
p0 2049 ± 1.579
2400
2300
2200
2100
2000
1900

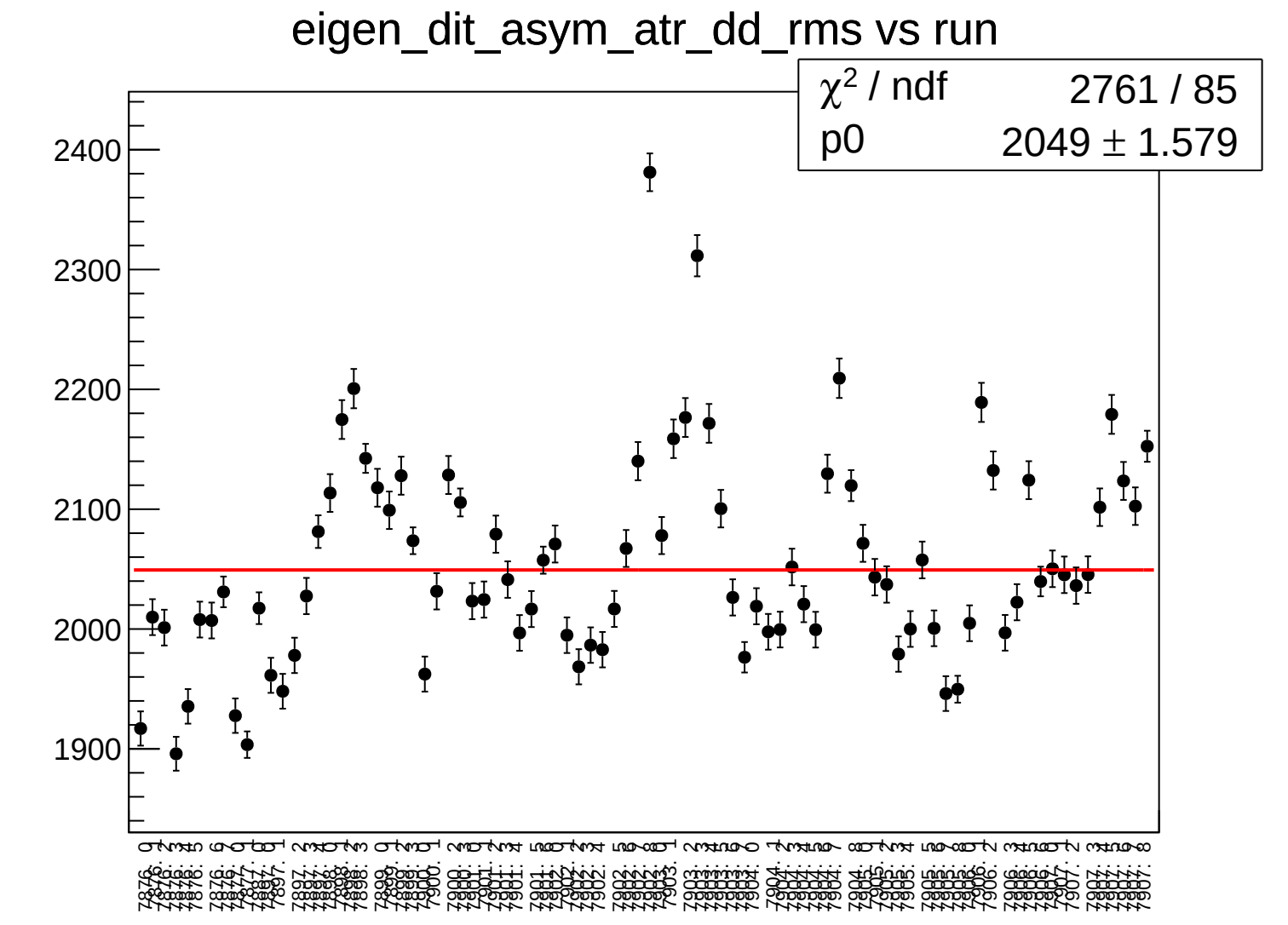

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 70.21 / 85
p0 −1.244e+04 ± 8182
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean 128.2
Std Dev 0
3
2
1
0
−1

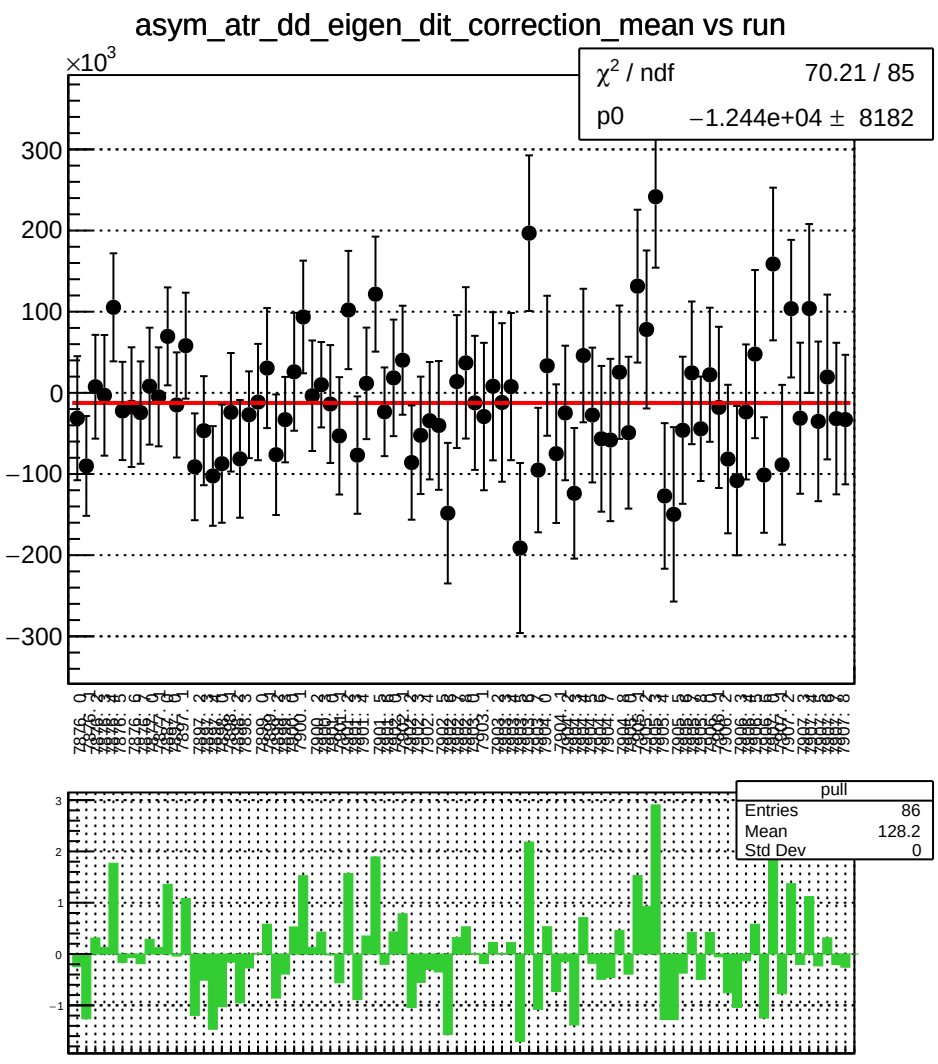

pull1D
Entries 86
Mean 0.006421
Std Dev 0.9035
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

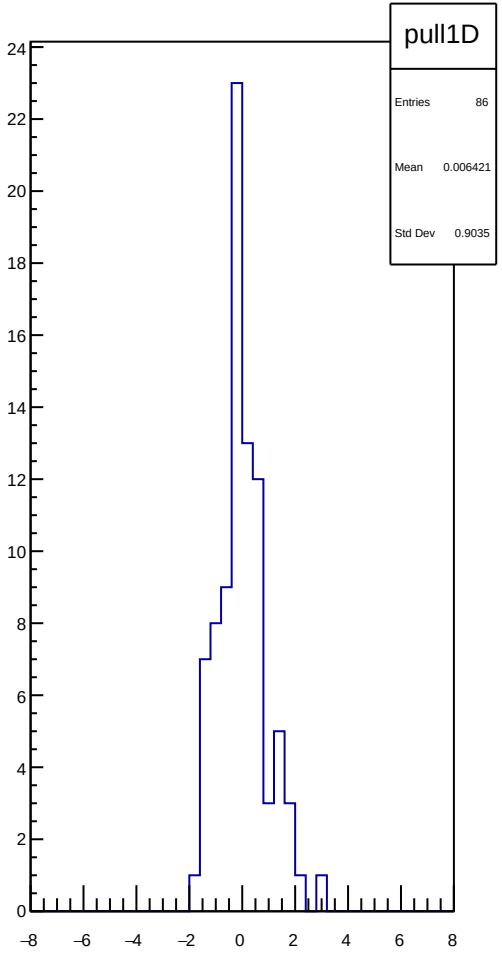

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 3.465e+04 / 85
p0 7439 ± 5.786
10000
9000
8000
7000
6000

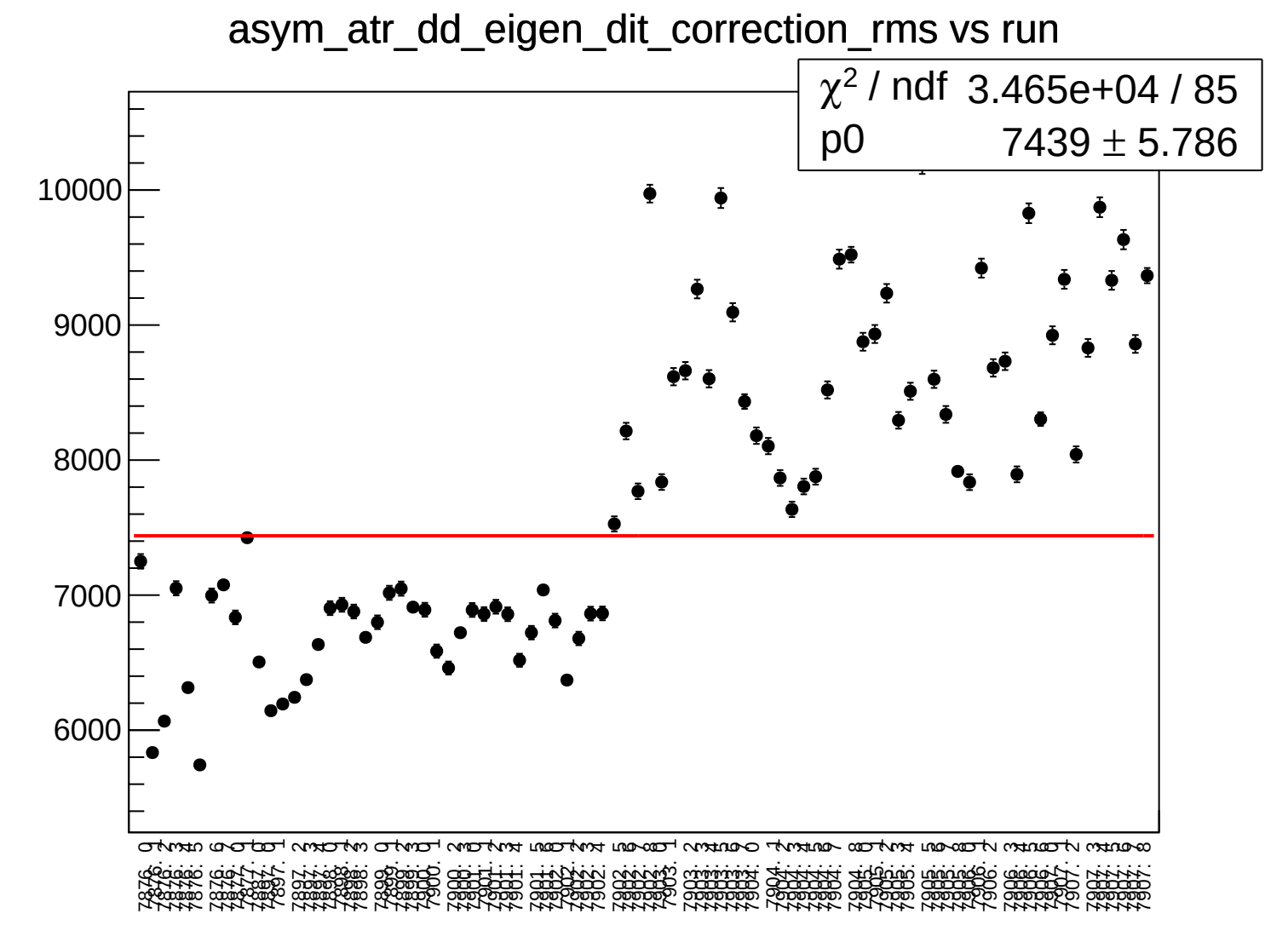

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 81.72 / 85
p0 −745 ± 2233
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 446.8
Std Dev 0
2
1
0
−1
−2

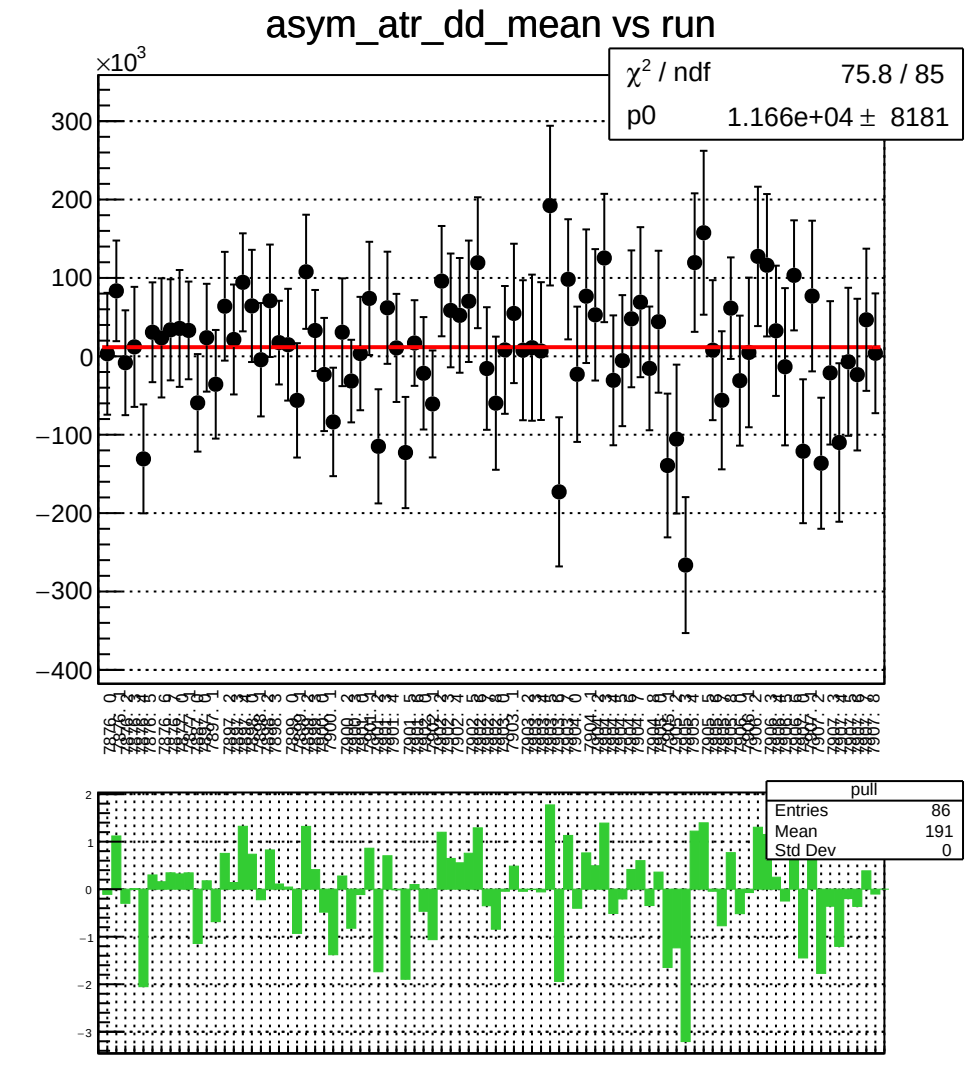

pull1D
Entries 86
Mean −0.005576
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

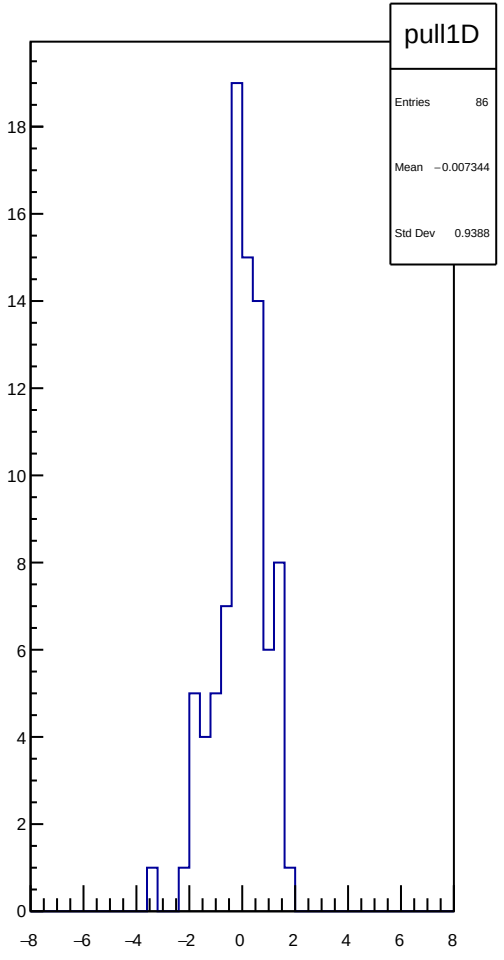

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 2761 / 85
p0 2049 ± 1.579
2400
2300
2200
2100
2000
1900

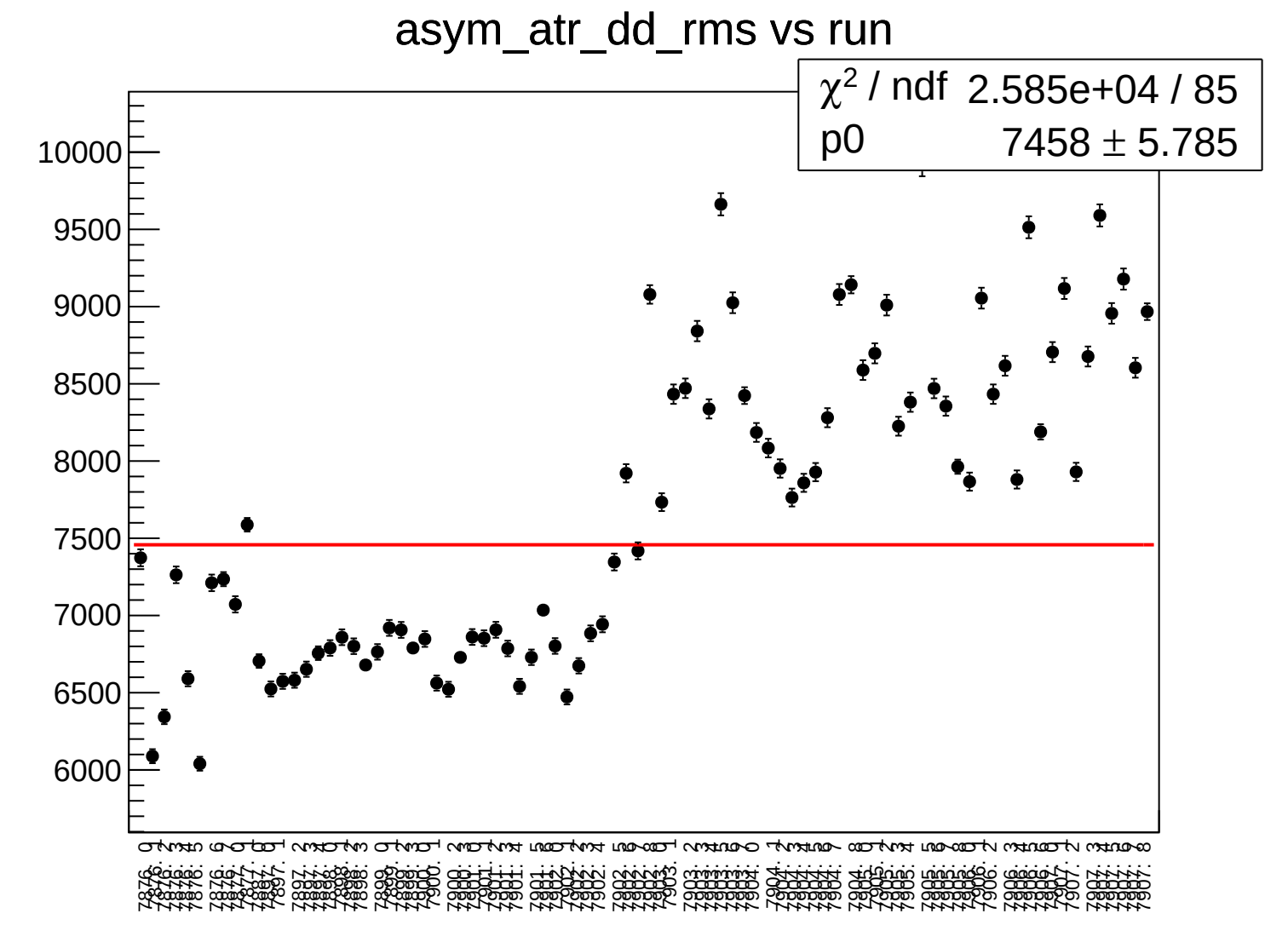

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 70.21 / 85
p0 −1.244e+04 ± 8182
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean 128.2
Std Dev 0
3
2
1
0
−1

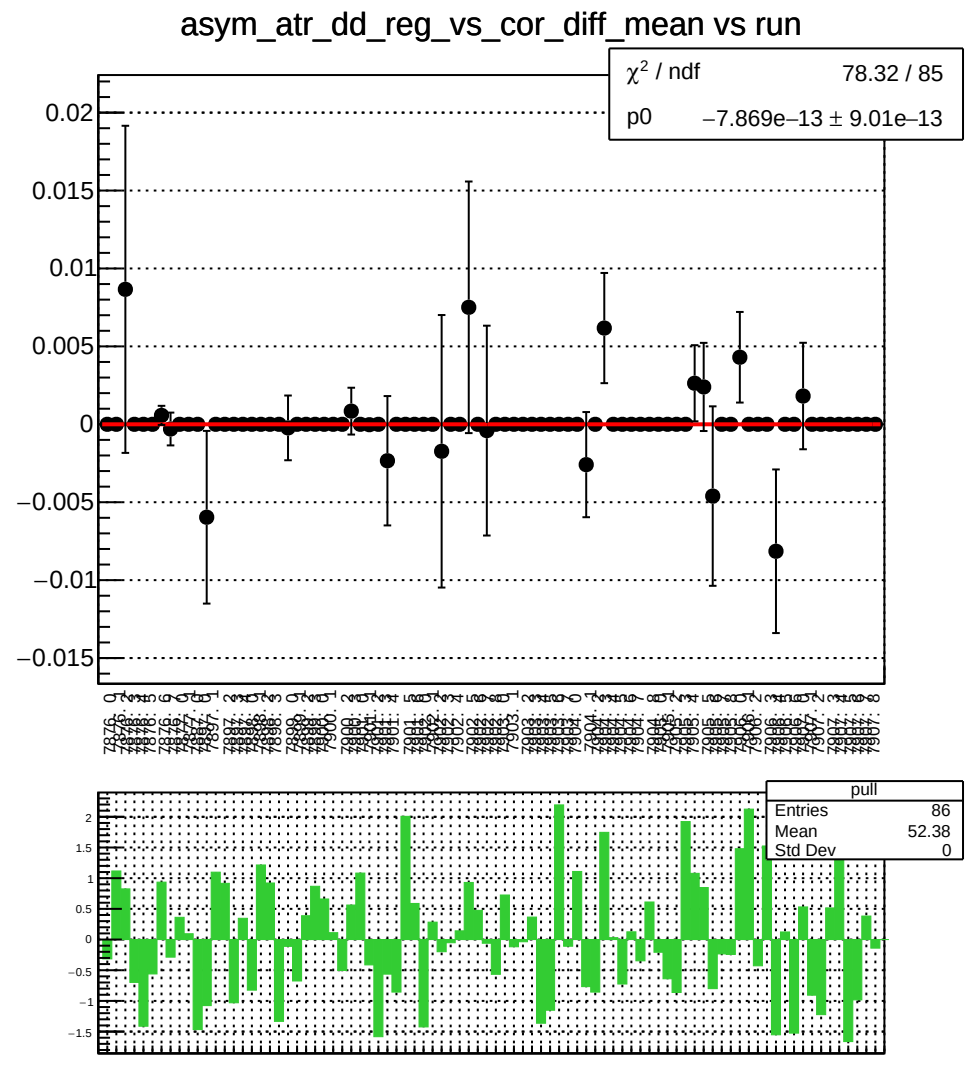

pull1D
Entries 86
Mean 0.006421
Std Dev 0.9035
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

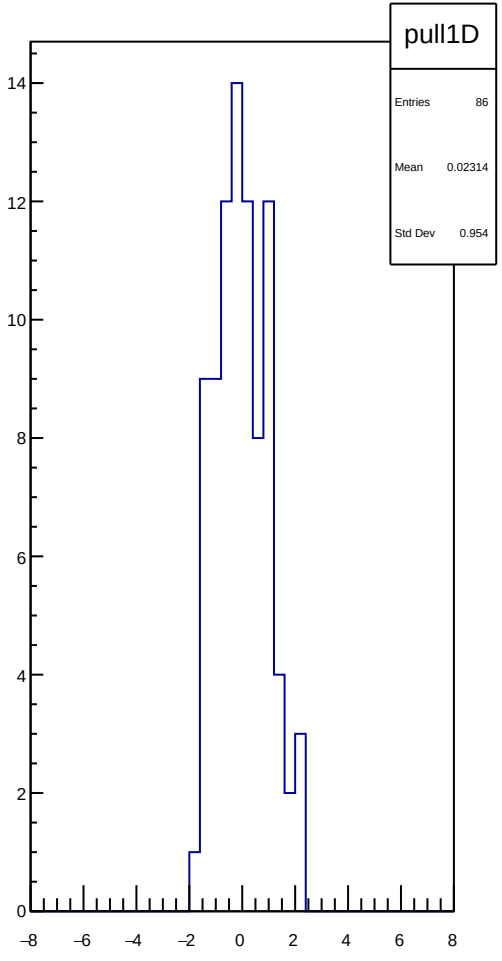

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.465e+04 / 85
p0 7439 ± 5.786
10000
9000
8000
7000
6000

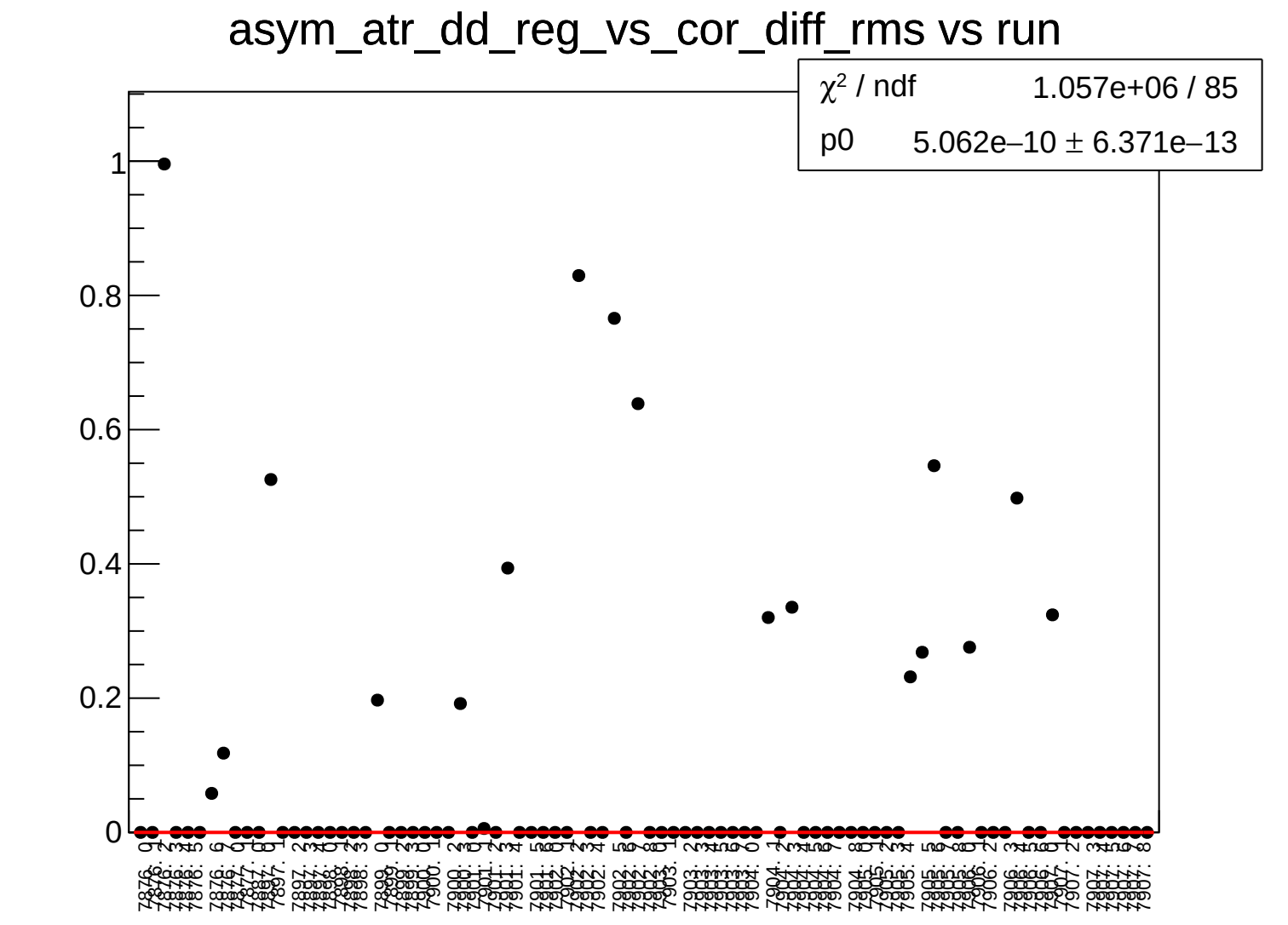

asym_atr_dd_mean vs run
×10^3
χ² / ndf 75.8 / 85
p0 1.166e+04 ± 8181
300
200
100
0
−100
−200
−300
−400
pull
Entries 86
Mean 191
Std Dev 0
2
1
0
−1
−2
−3

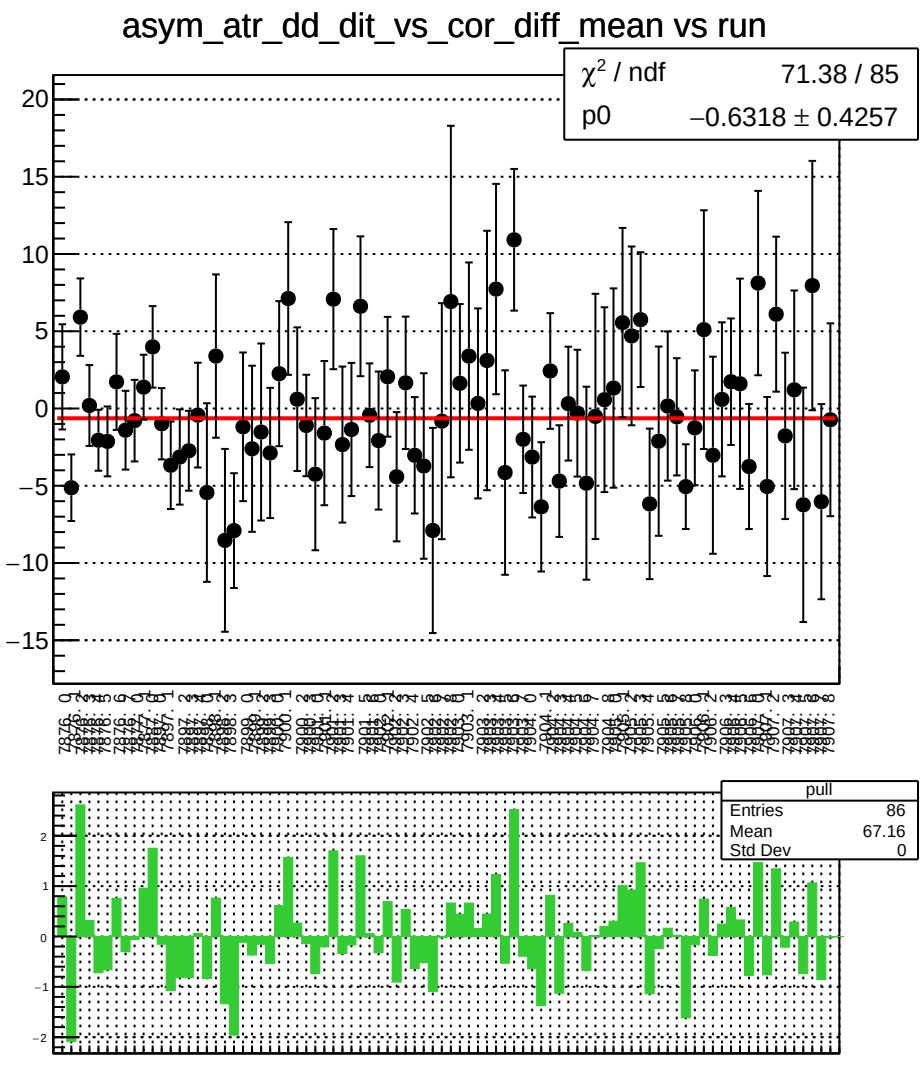

pull1D
Entries 86
Mean −0.007344
Std Dev 0.9388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

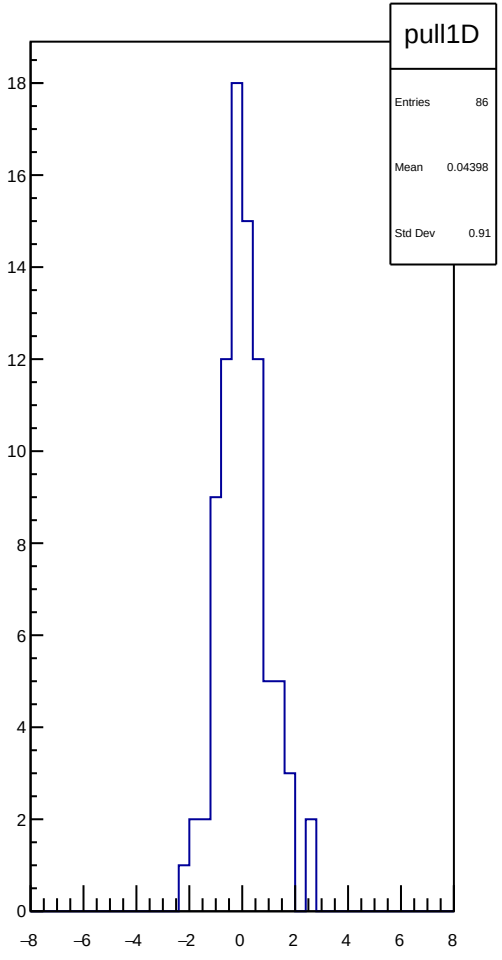

asym_atr_dd_rms vs run
χ^2 / ndf 2.585e+04 / 85
p0 7458 ± 5.785
10000
9500
9000
8500
8000
7500
7000
6500
6000

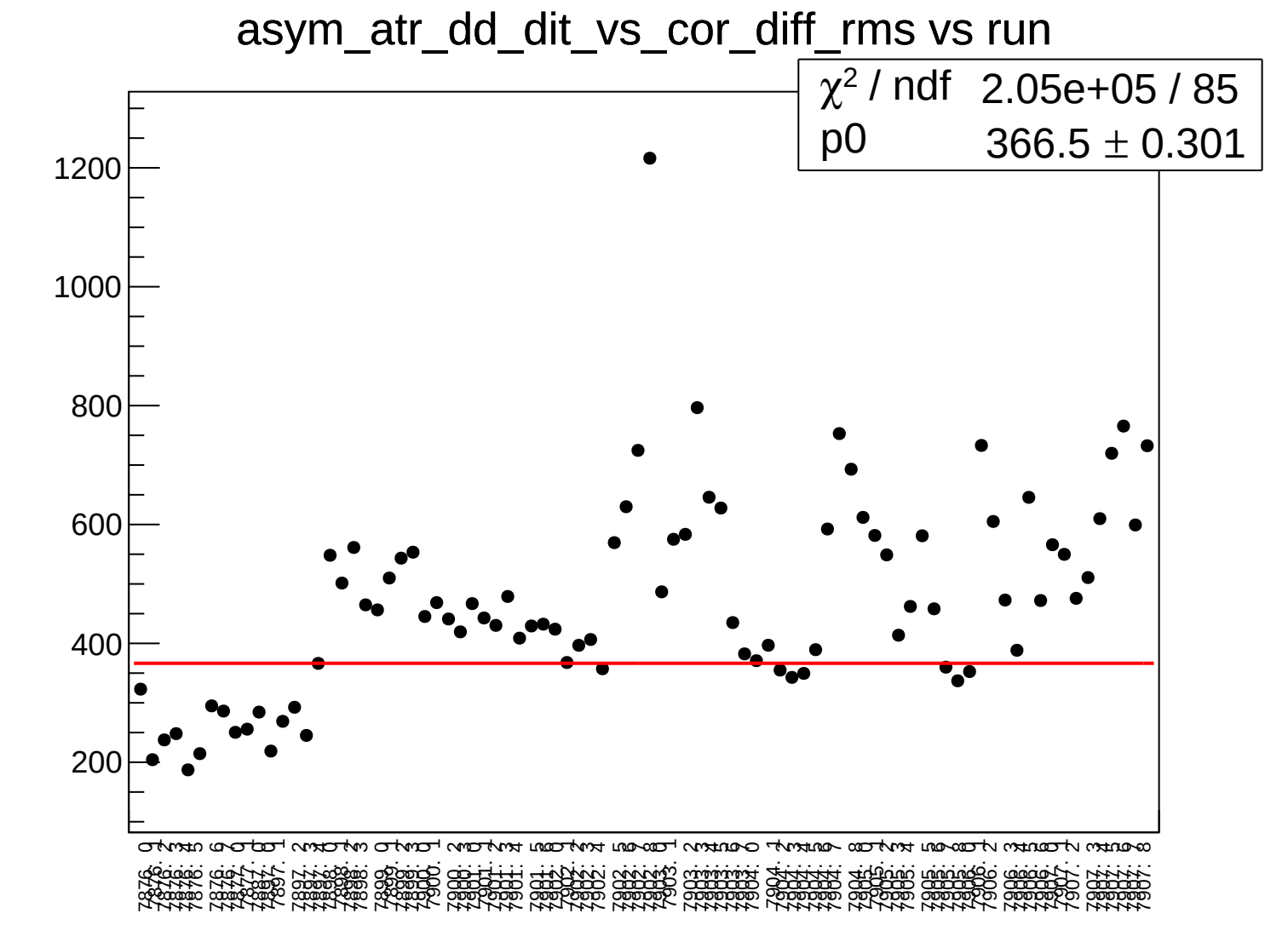

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.32 / 85
p0 −7.869e−13 ± 9.01e−13
pull
Entries 86
Mean 52.38
Std Dev 0

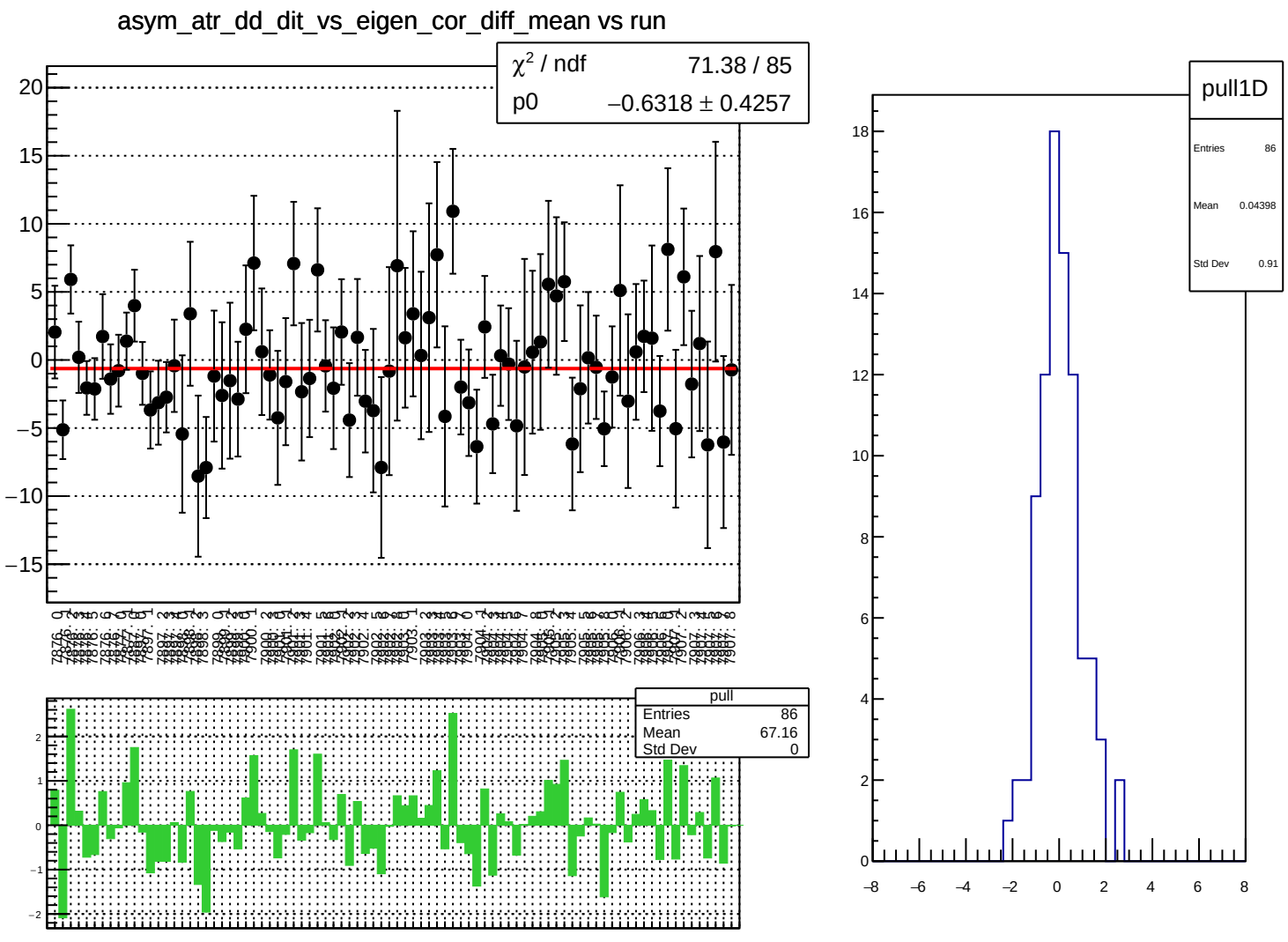

pull1D
Entries 86
Mean 0.02314
Std Dev 0.954

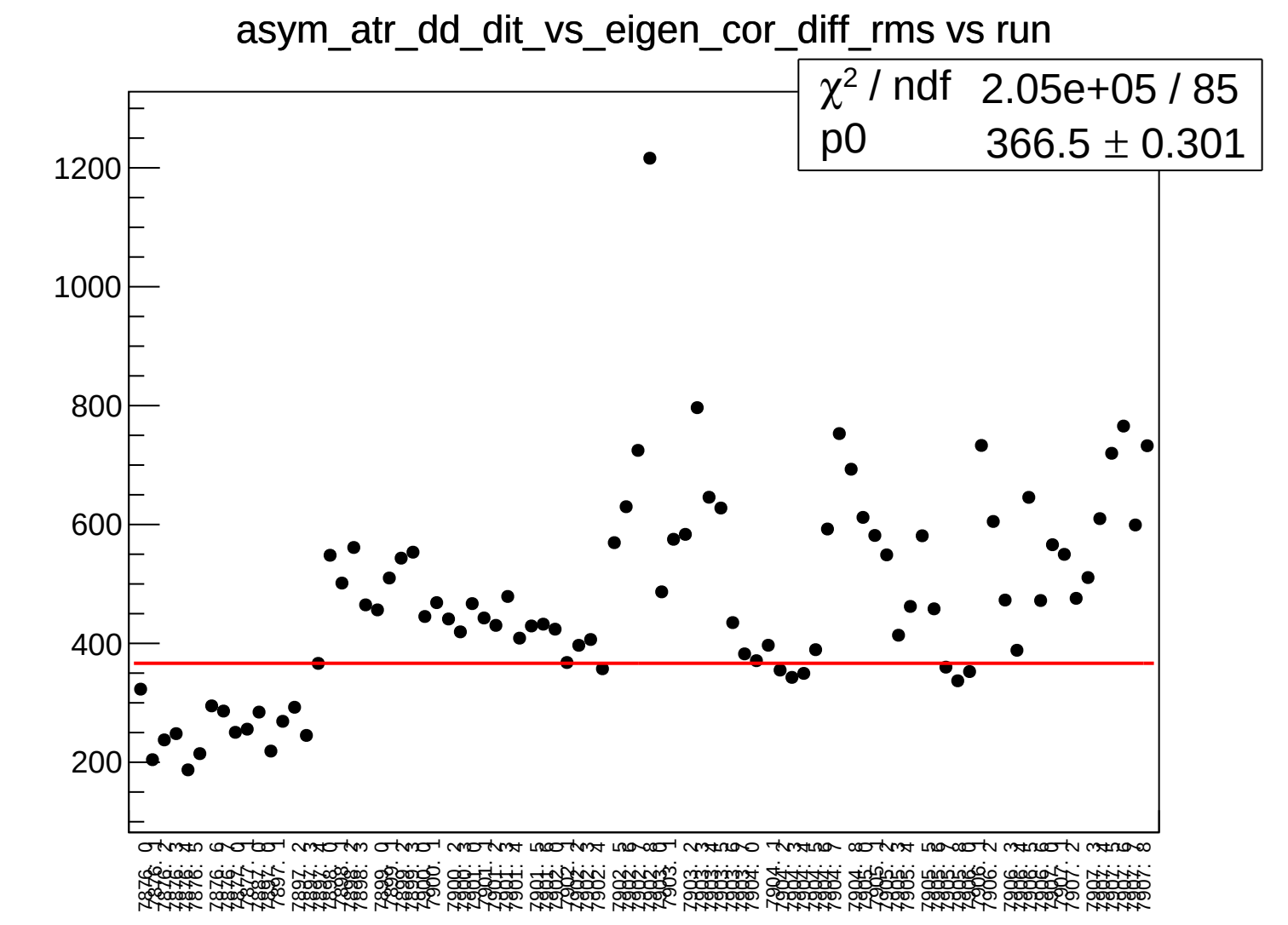

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 85
p0 5.062e−10 ± 6.371e−13
1
0.8
0.6
0.4
0.2
0

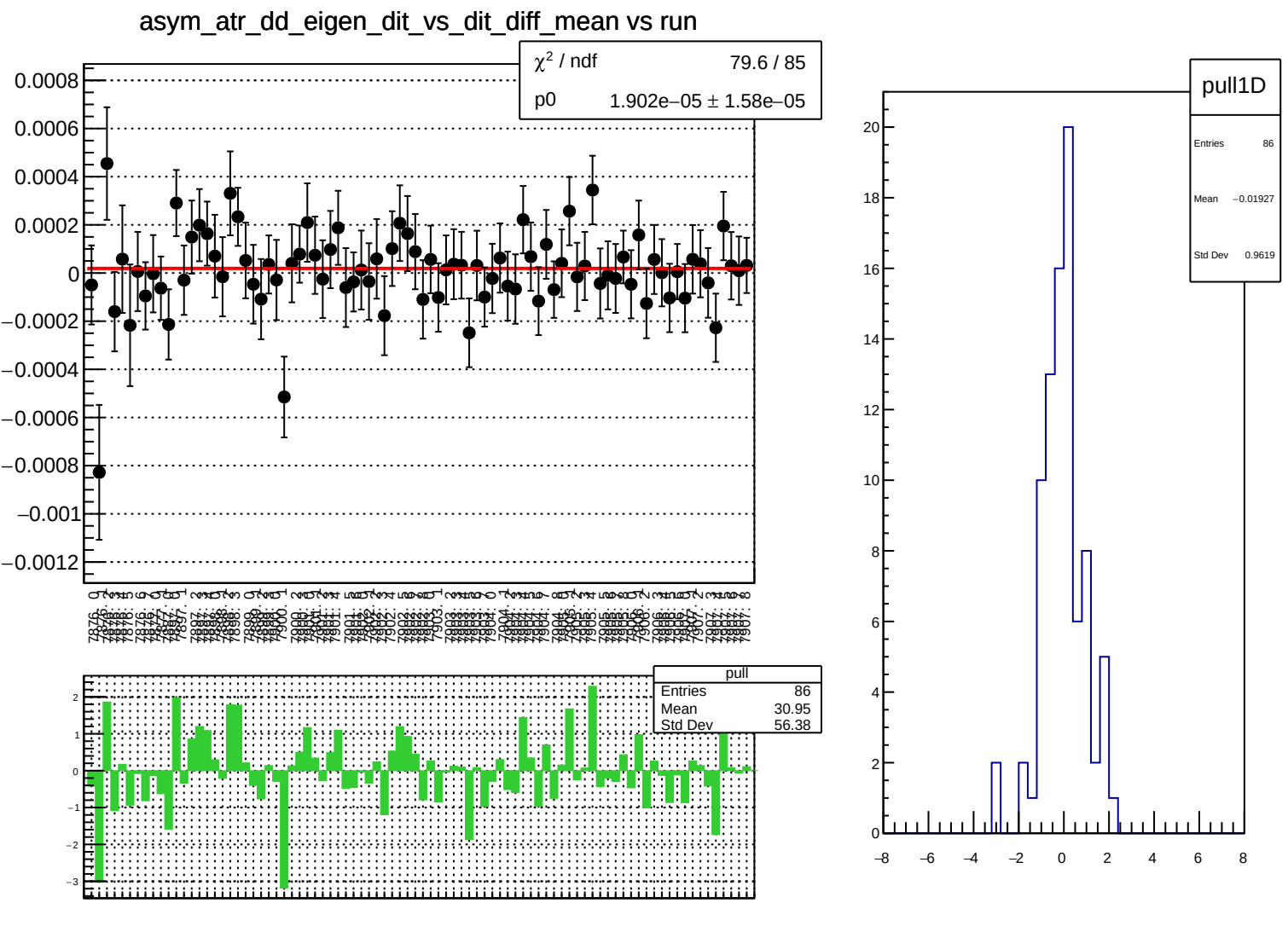

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.38 / 85
p0 −0.6318 ± 0.4257
pull
Entries 86
Mean 67.16
Std Dev 0

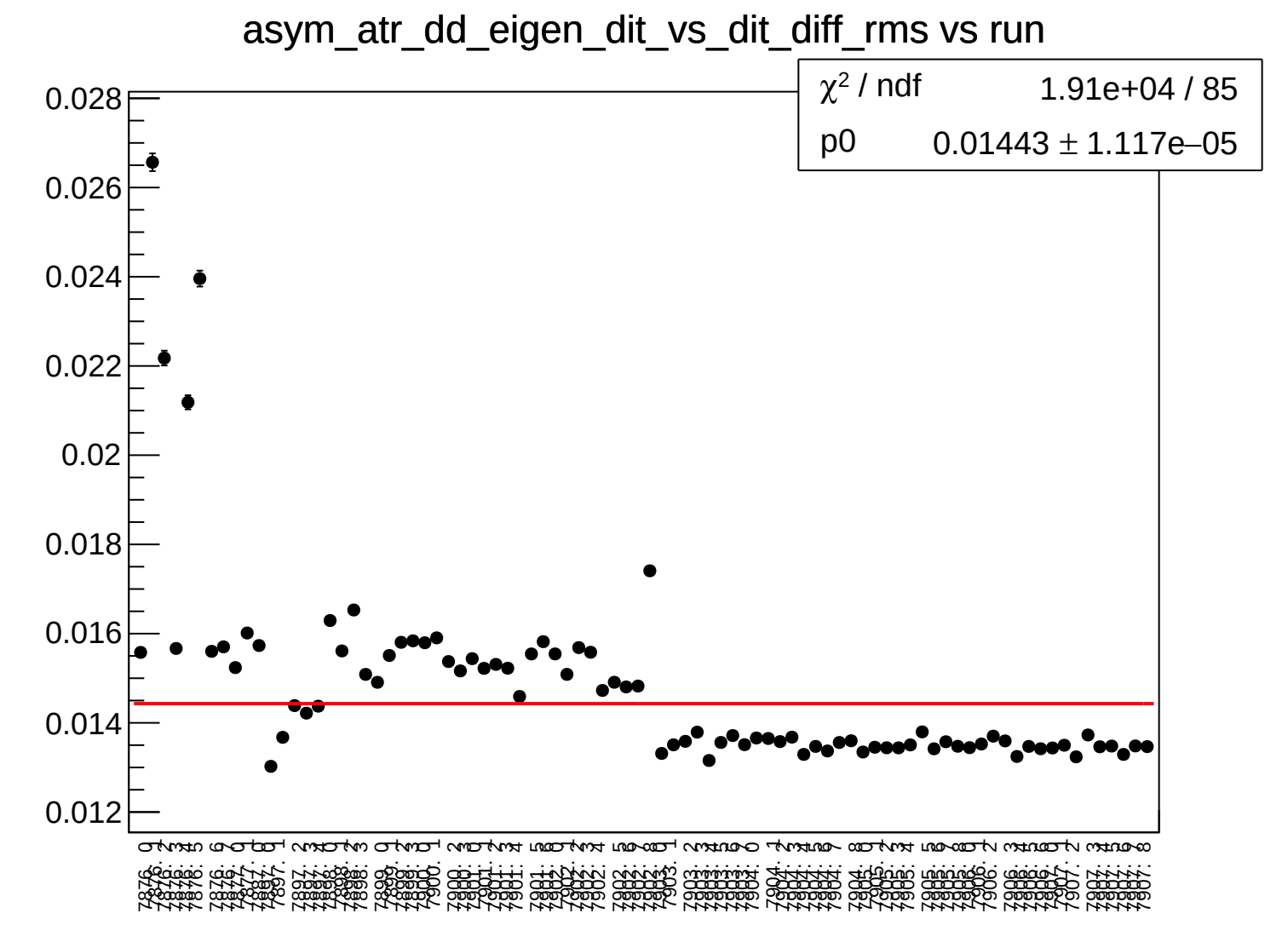

pull1D
Entries 86
Mean 0.04398
Std Dev 0.91

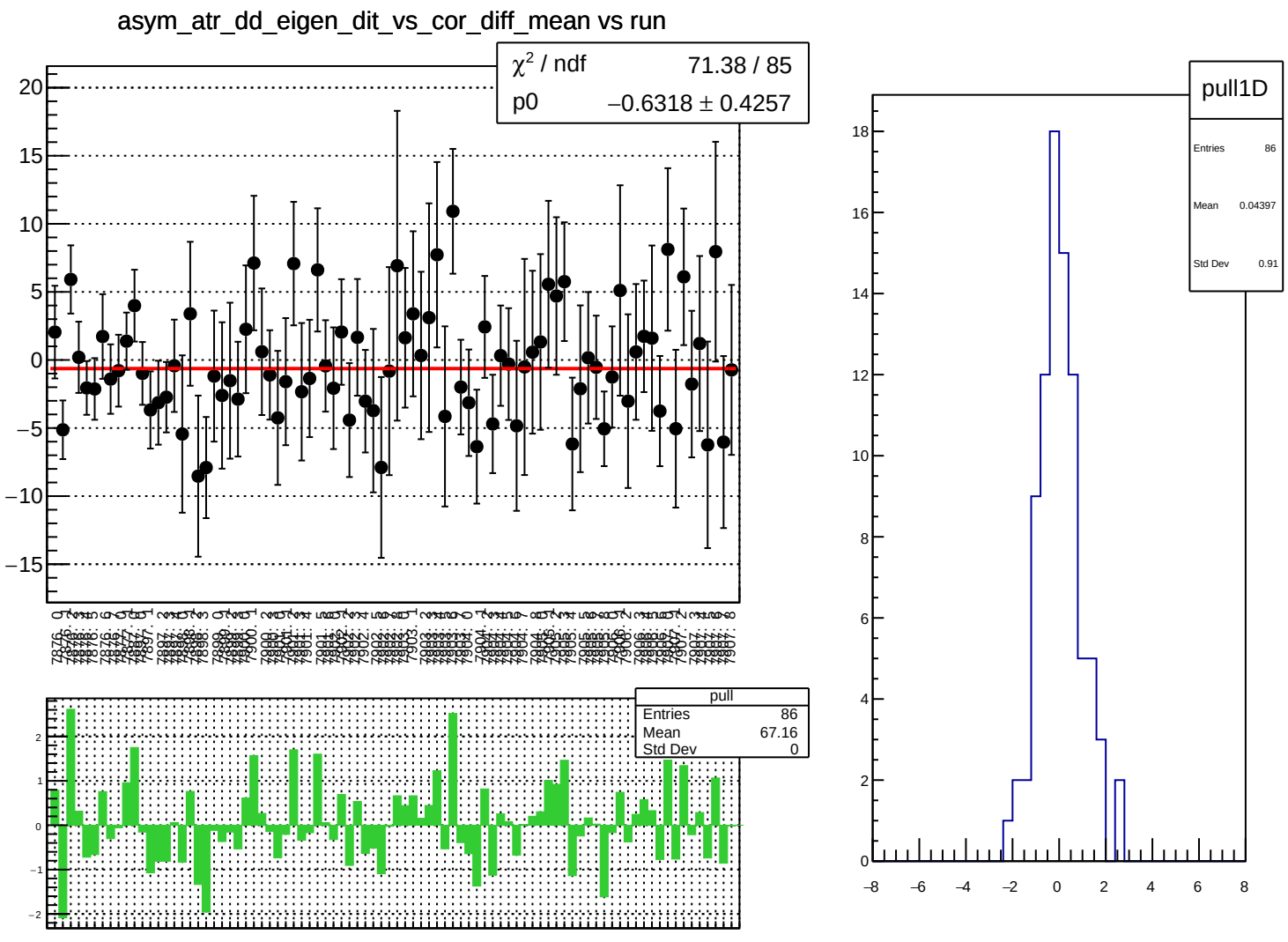

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.05e+05 / 85
p0 366.5 ± 0.301
1200
1000
800
600
400
200

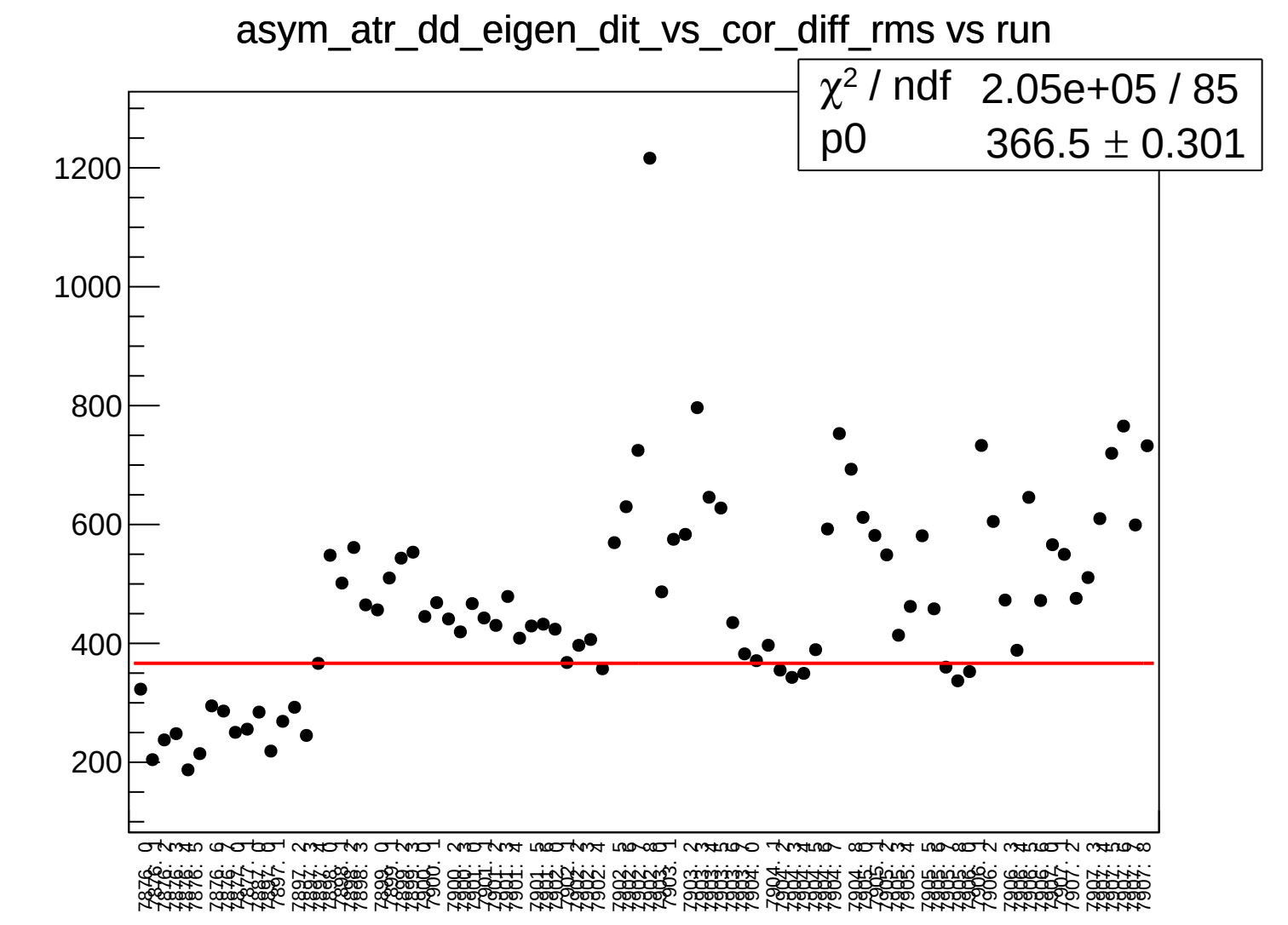

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.38 / 85
p0 −0.6318 ± 0.4257
pull
Entries 86
Mean 67.16
Std Dev 0
pull1D
Entries 86
Mean 0.04398
Std Dev 0.91

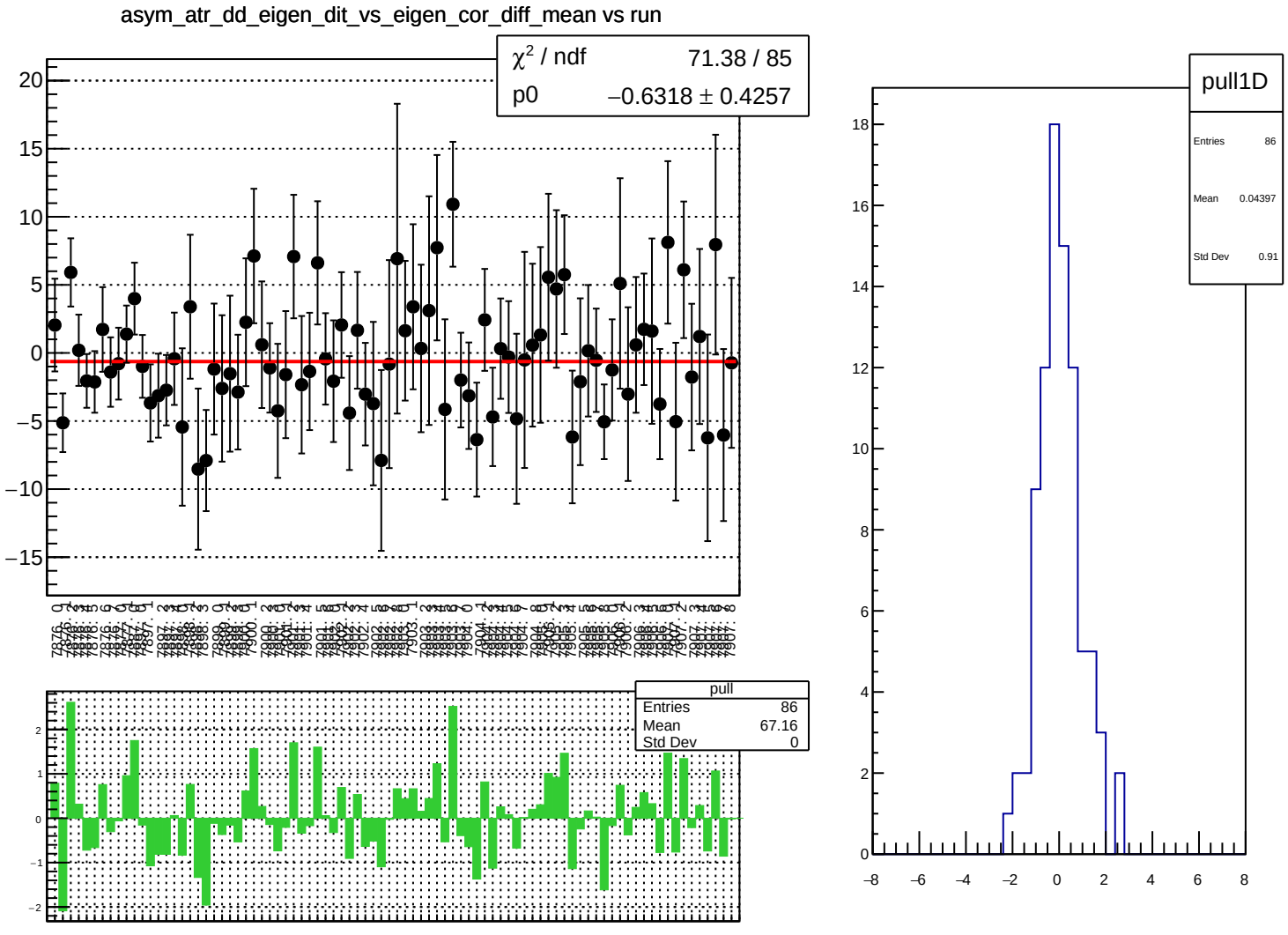

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.05e+05 / 85
p0 366.5 ± 0.301
1200
1000
800
600
400
200

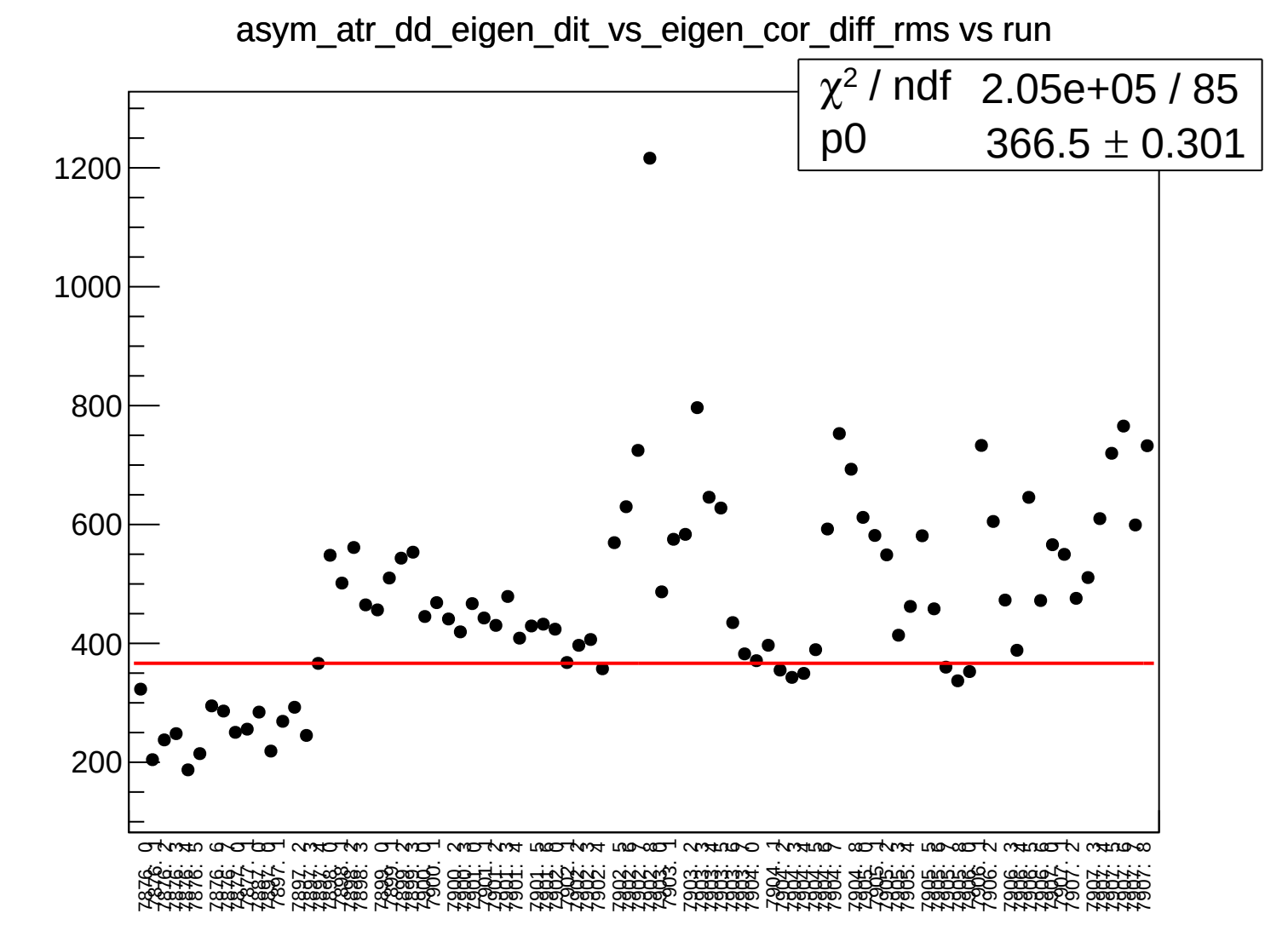

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 79.6 / 85
p0 1.902e−05 ± 1.58e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 86
Mean 30.95
Std Dev 56.38
pull1D
Entries 86
Mean −0.01927
Std Dev 0.9619

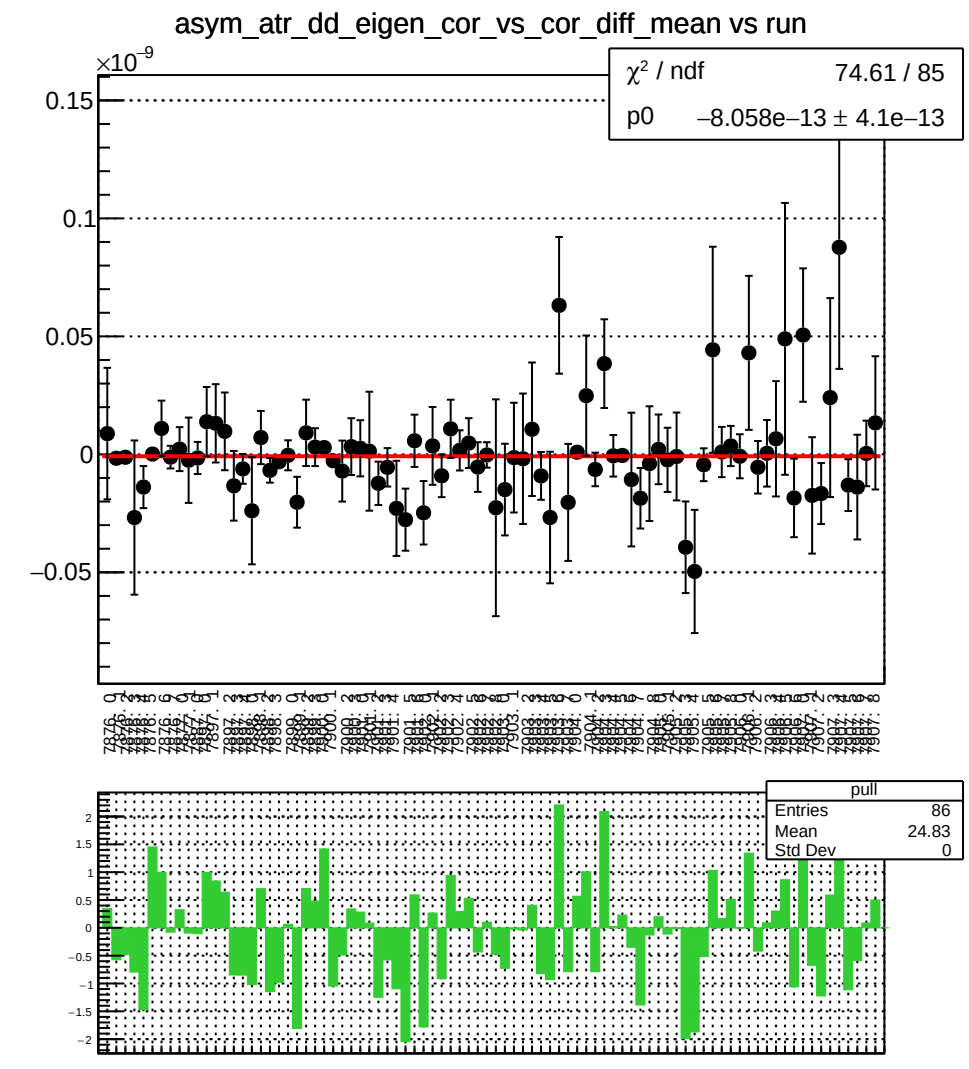

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.91e+04 / 85
p0 0.01443 ± 1.117e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

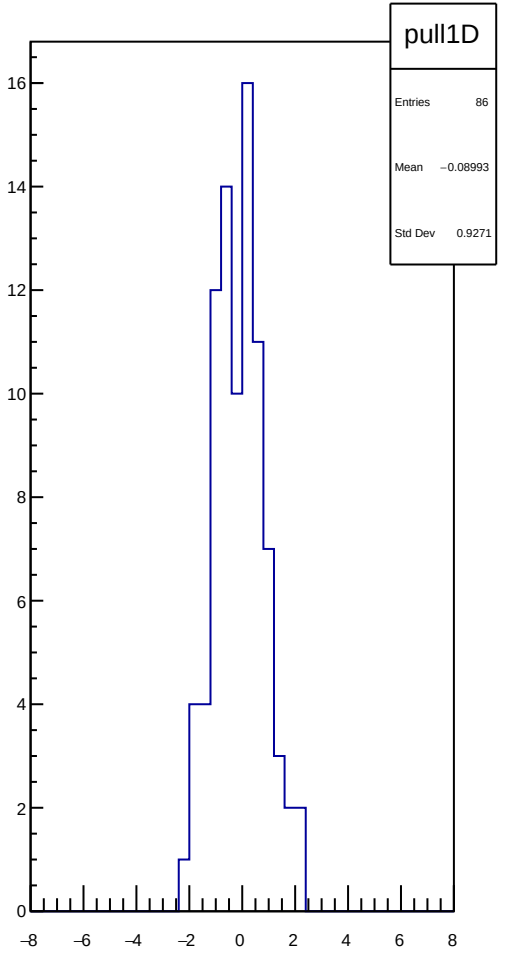

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.38 / 85
p0 −0.6318 ± 0.4257
pull
Entries 86
Mean 67.16
Std Dev 0
pull1D
Entries 86
Mean 0.04397
Std Dev 0.91

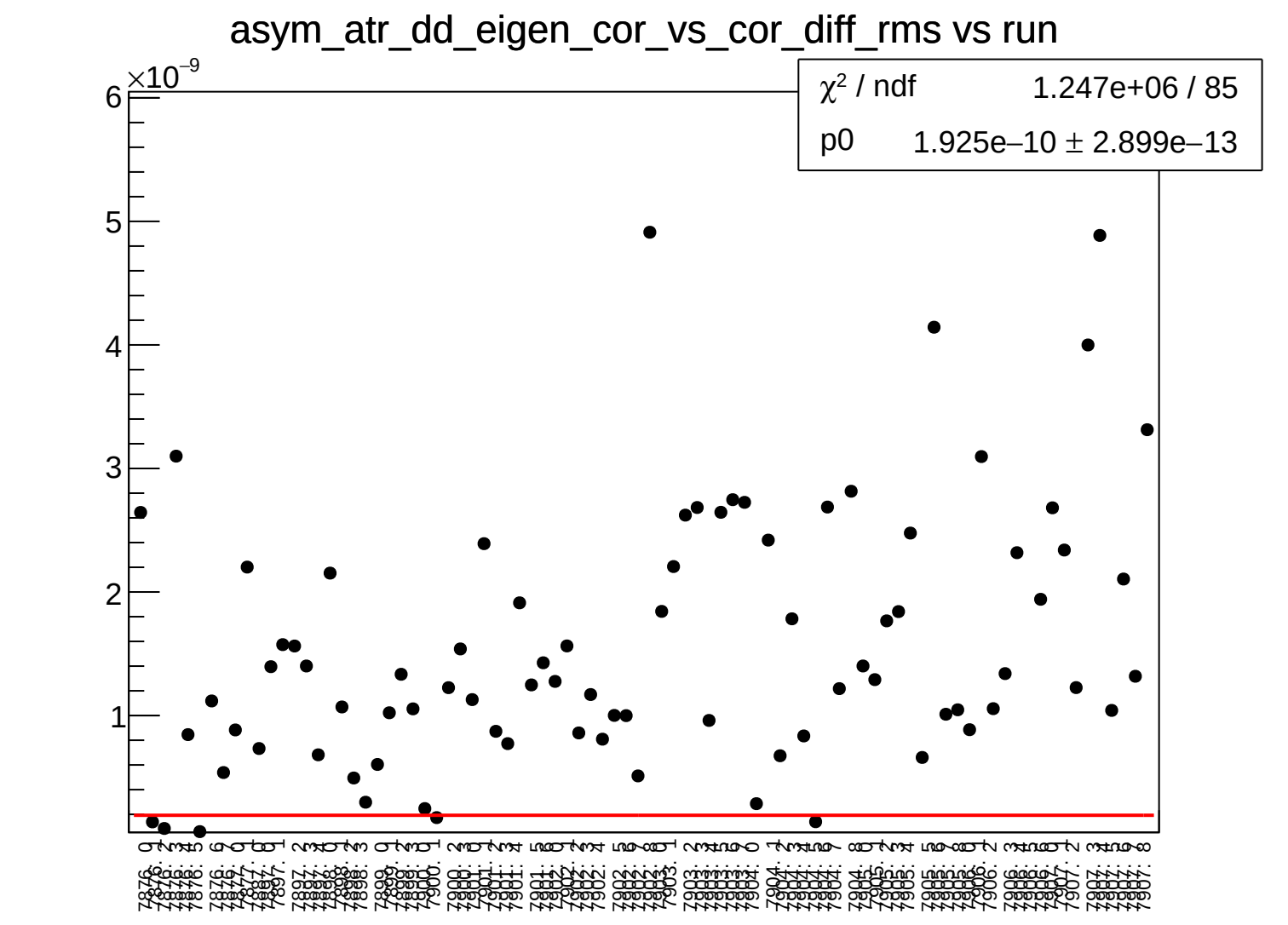

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.05e+05 / 85
p0 366.5 ± 0.301
1200
1000
800
600
400
200

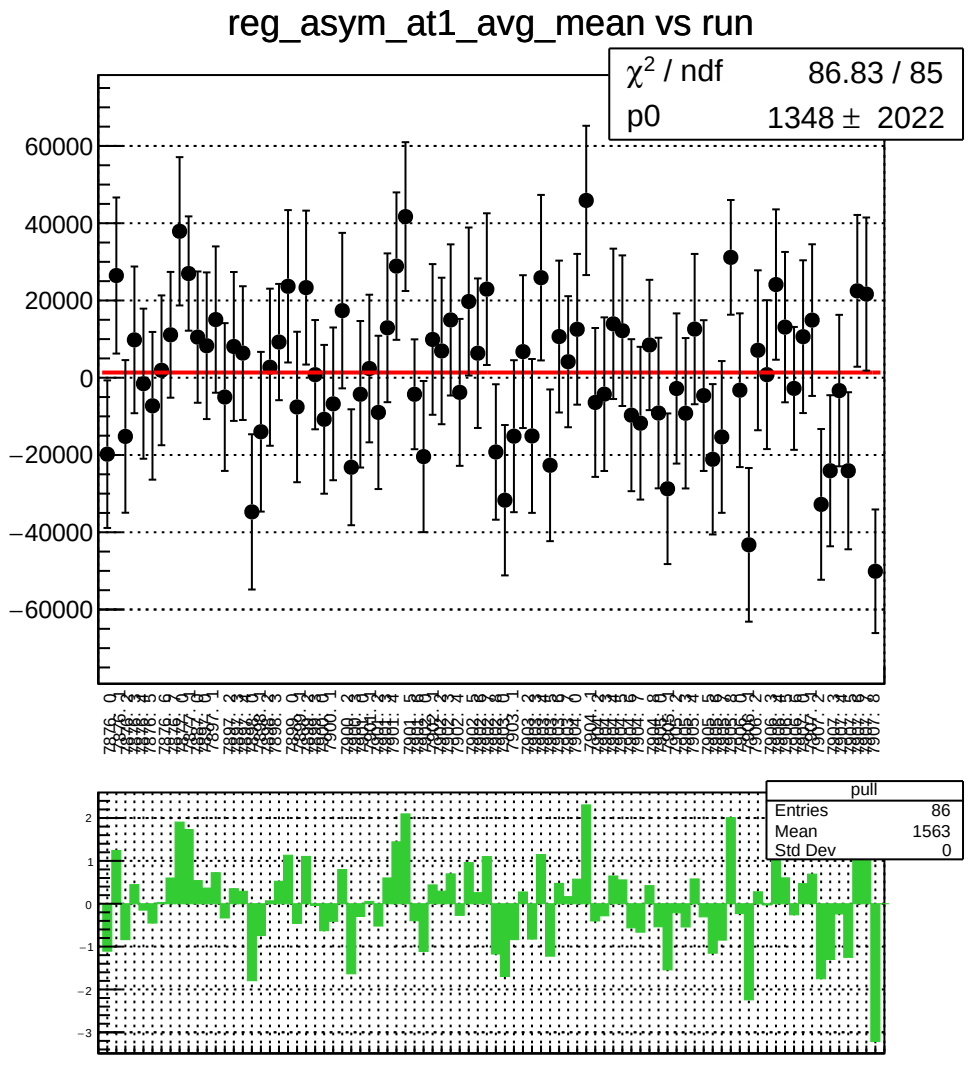

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.38 / 85
p0 −0.6318 ± 0.4257
pull
Entries 86
Mean 67.16
Std Dev 0
pull1D
Entries 86
Mean 0.04397
Std Dev 0.91

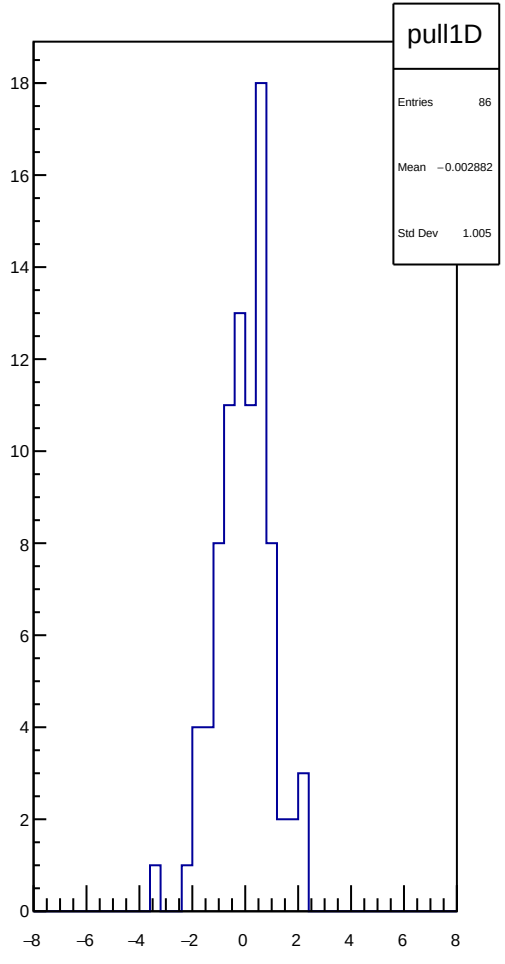

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.05e+05 / 85
p0 366.5 ± 0.301
1200
1000
800
600
400
200

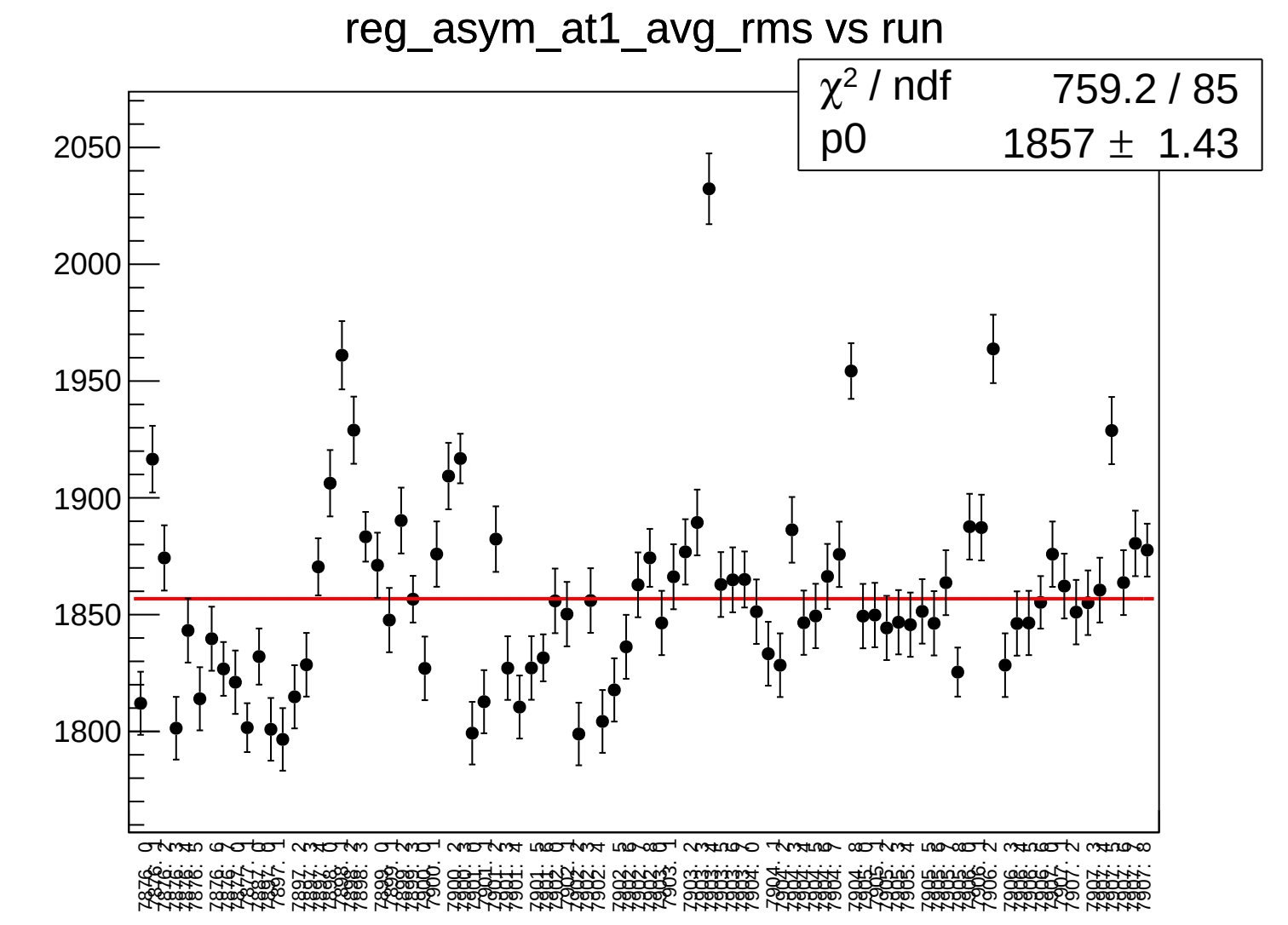

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 74.61 / 85
p0 −8.058e−13 ± 4.1e−13
0.15
0.1
0.05
0
−0.05
pull
Entries 86
Mean 24.83
Std Dev 0

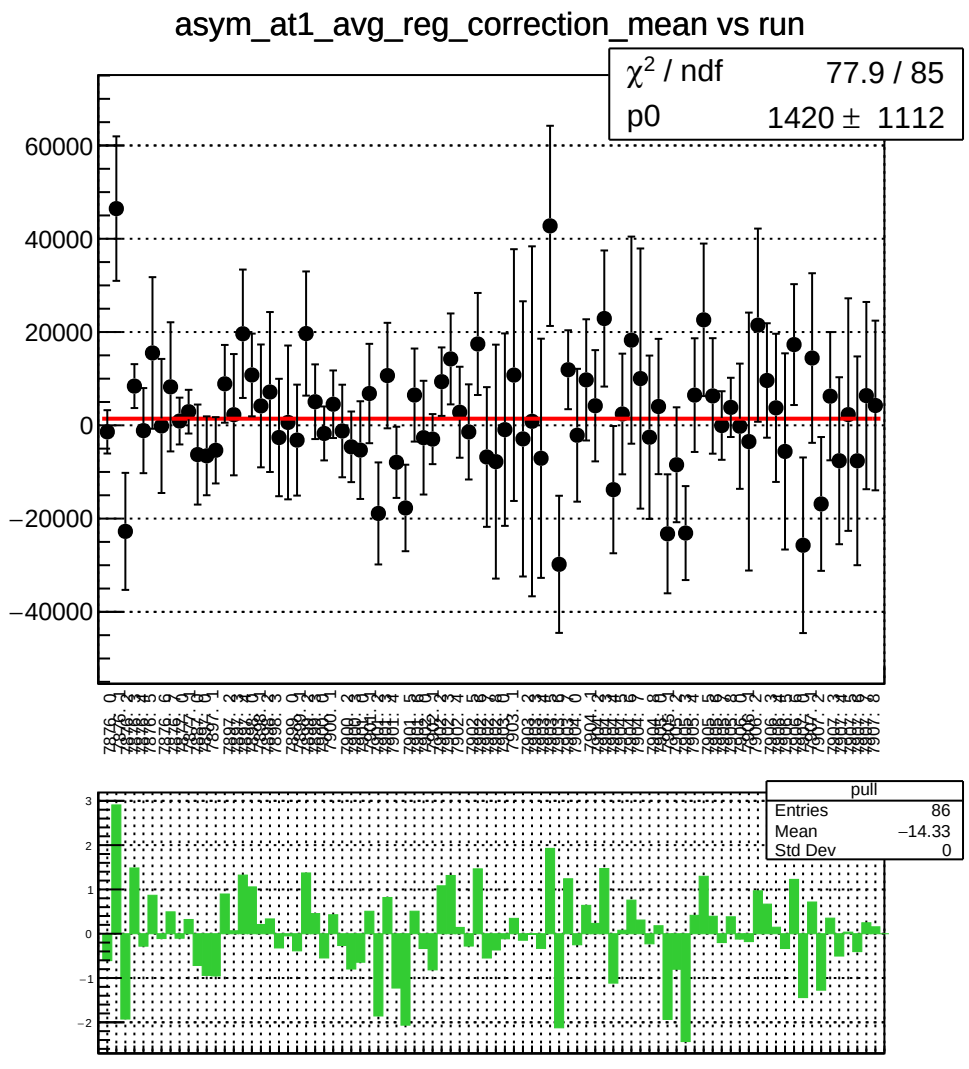

pull1D
Entries 86
Mean −0.08993
Std Dev 0.9271
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

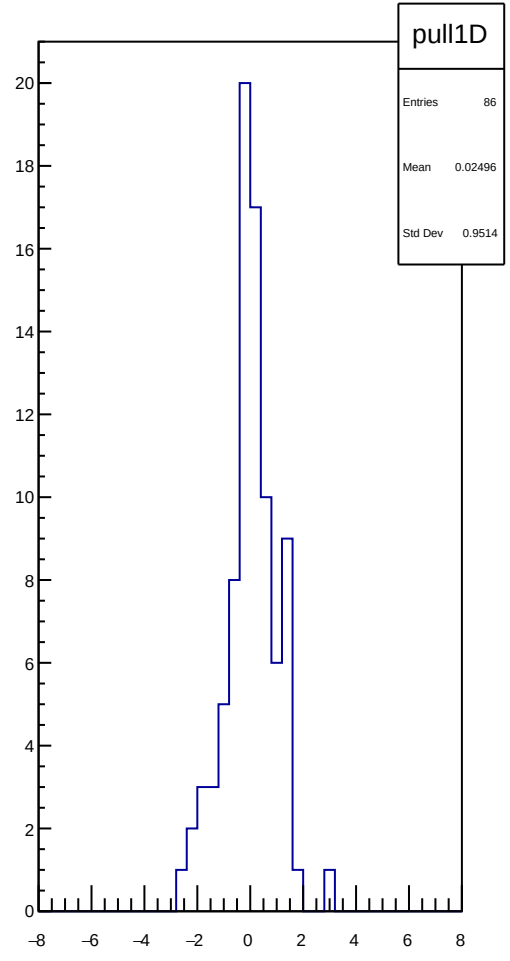

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.247e+06 / 85
p0 1.925e−10 ± 2.899e−13
6
5
4
3
2
1

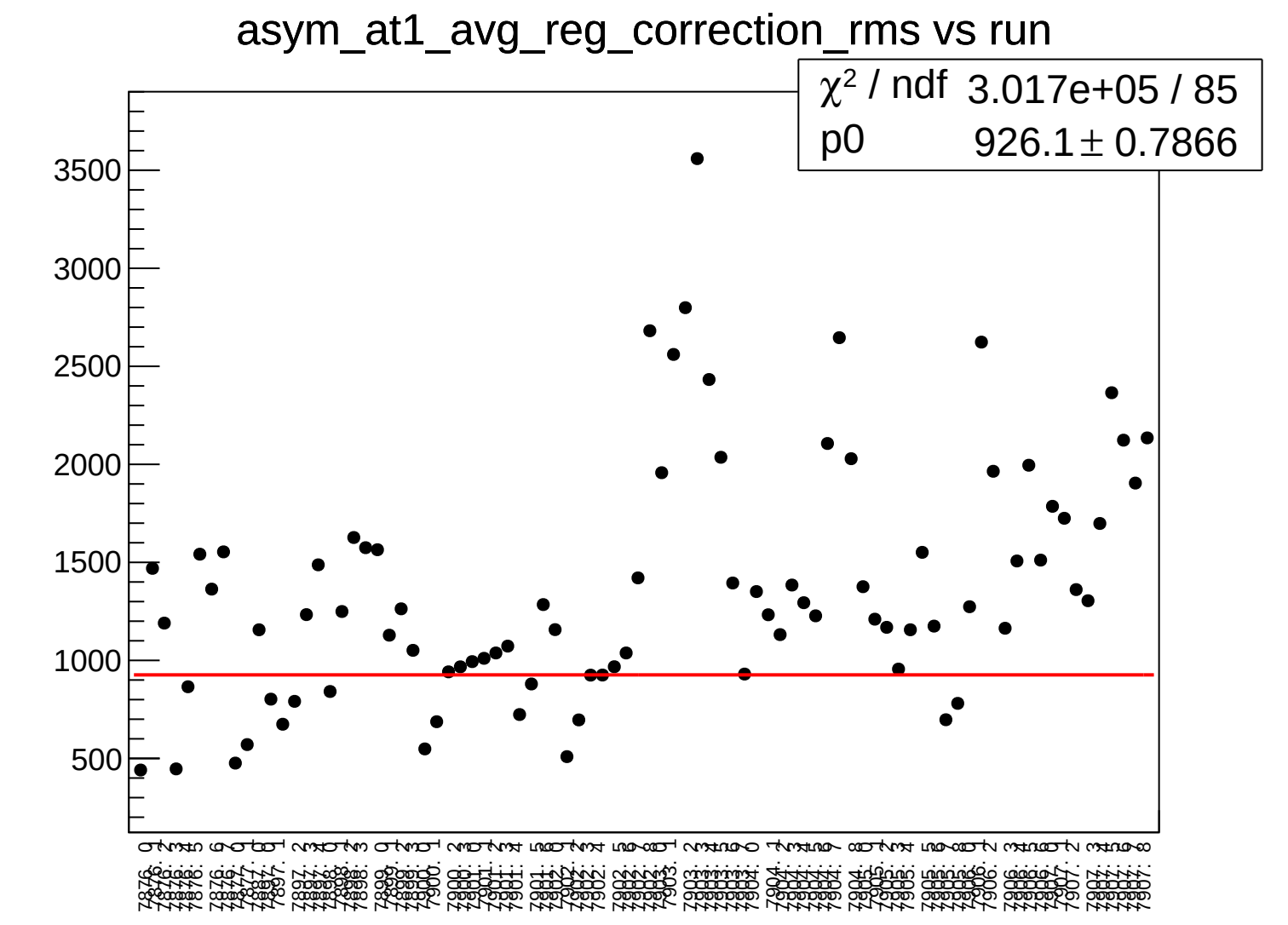

reg_asym_at1_avg_mean vs run
χ² / ndf 86.83 / 85
p0 1348 ± 2022
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1563
Std Dev 0
2
1
0
−1
−2
−3

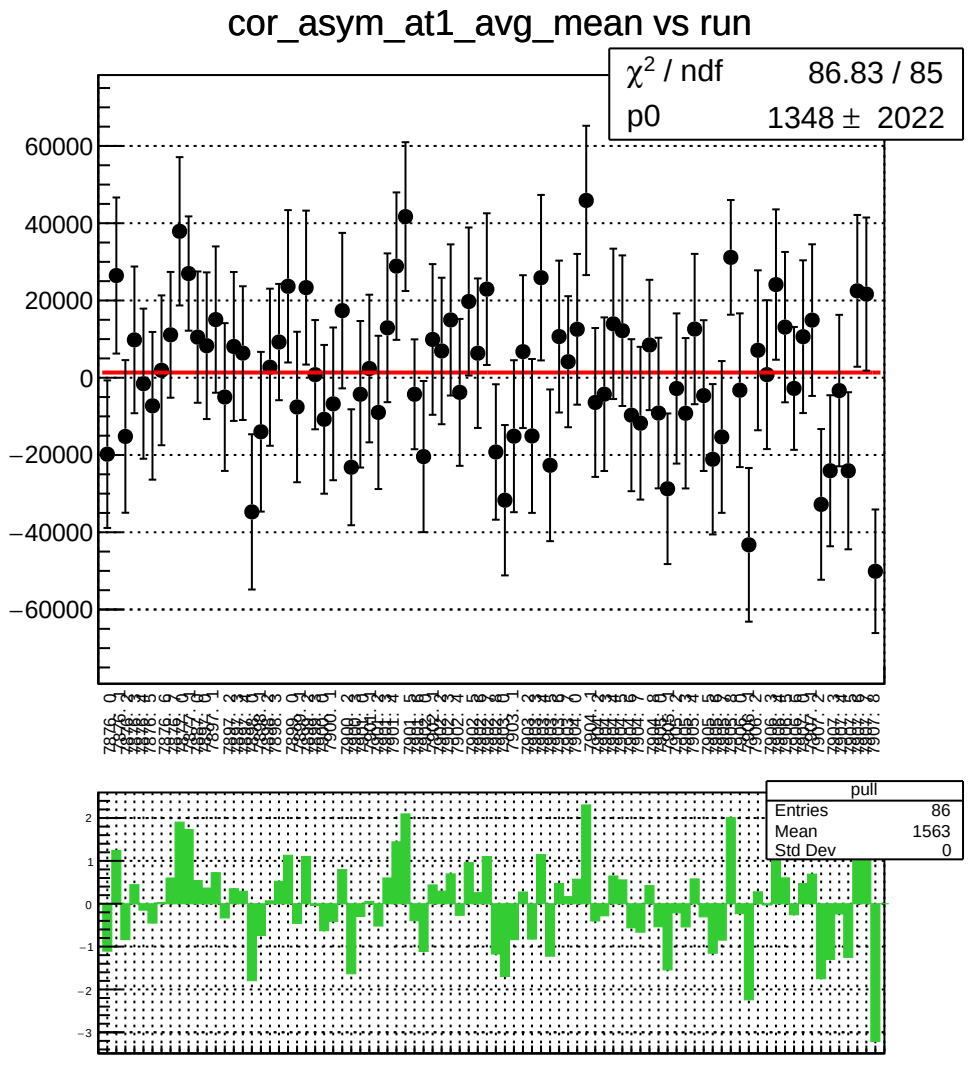

pull1D
Entries 86
Mean −0.002882
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

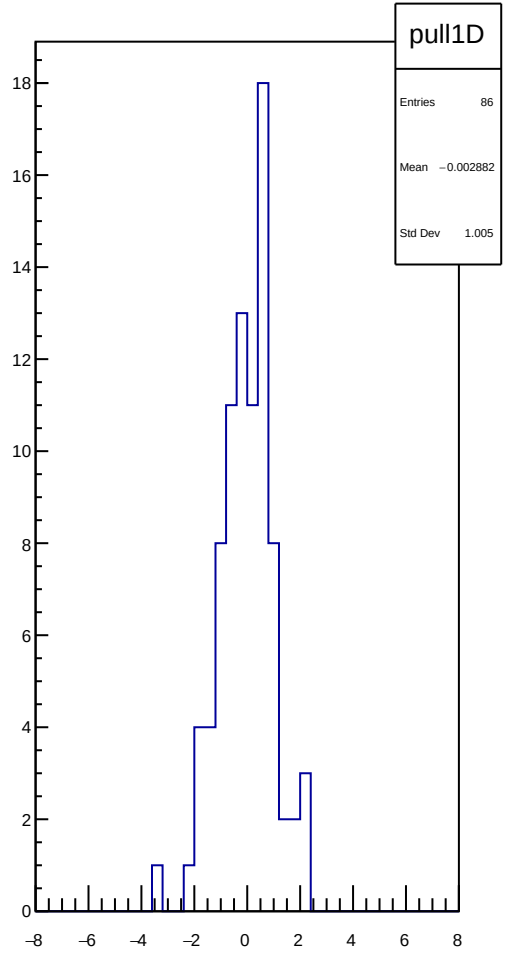

reg_asym_at1_avg_rms vs run
χ^2 / ndf 759.2 / 85
p0 1857 ± 1.43
2050
2000
1950
1900
1850
1800

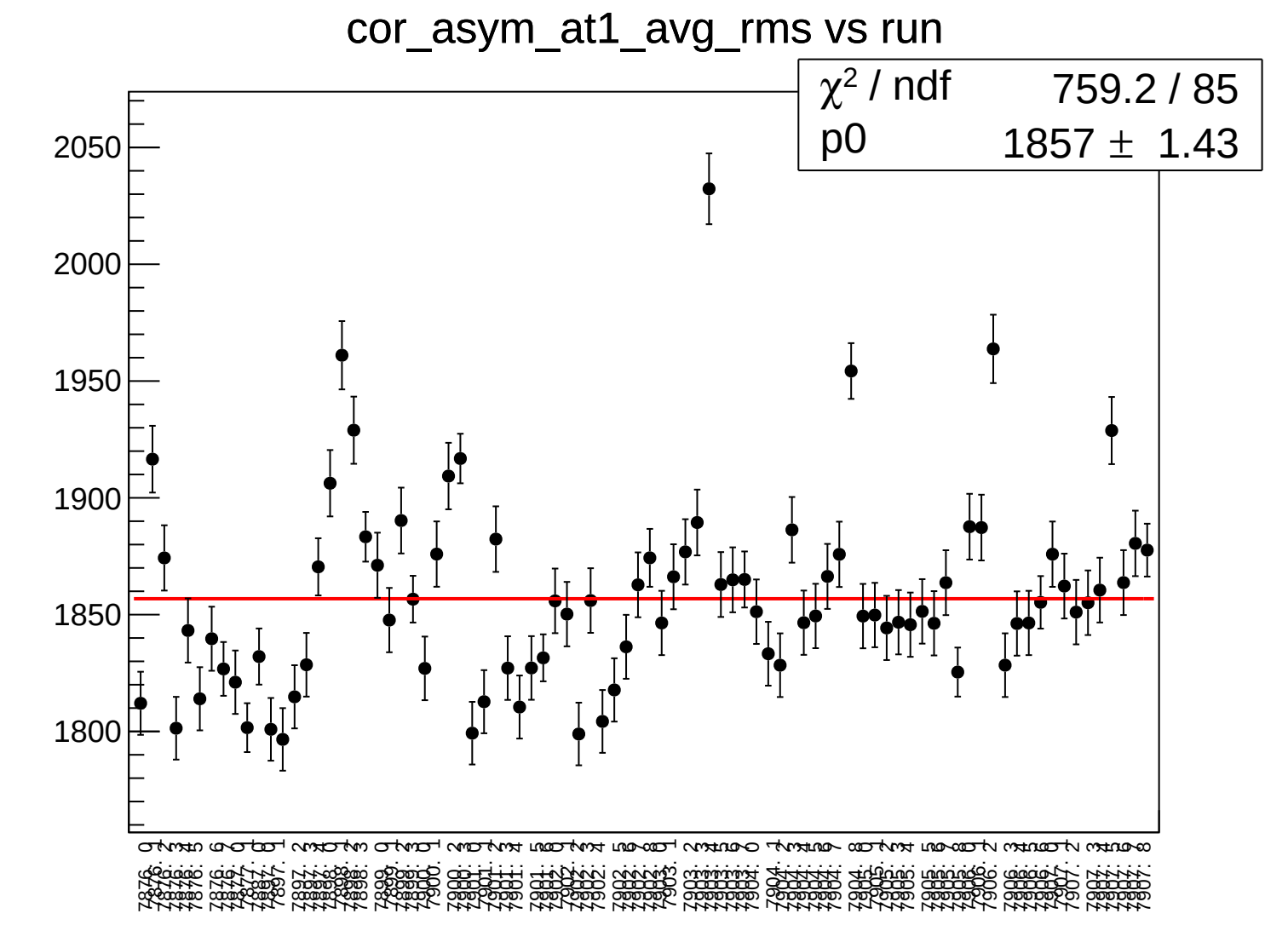

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 77.9 / 85
p0 1420 ± 1112
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −14.33
Std Dev 0
3
2
1
0
−1
−2

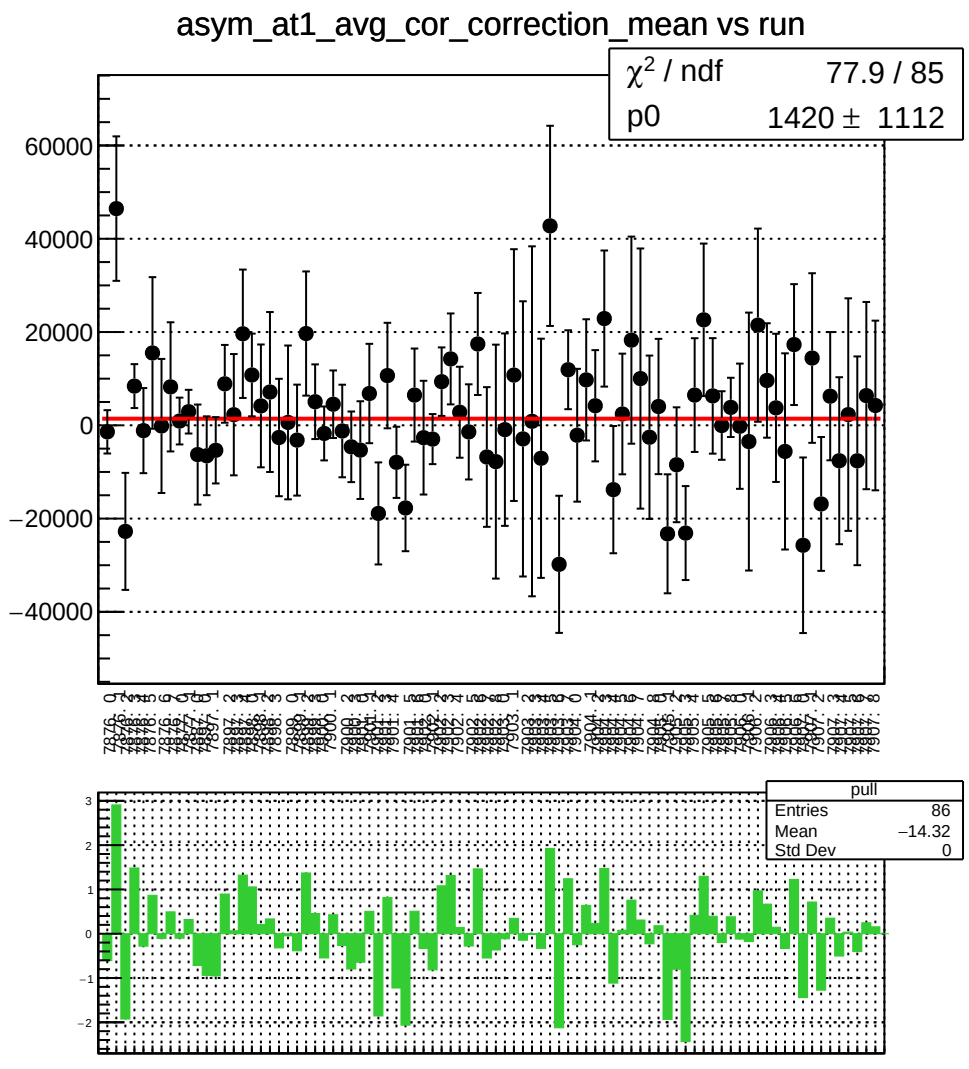

pull1D
Entries 86
Mean 0.02496
Std Dev 0.9514
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

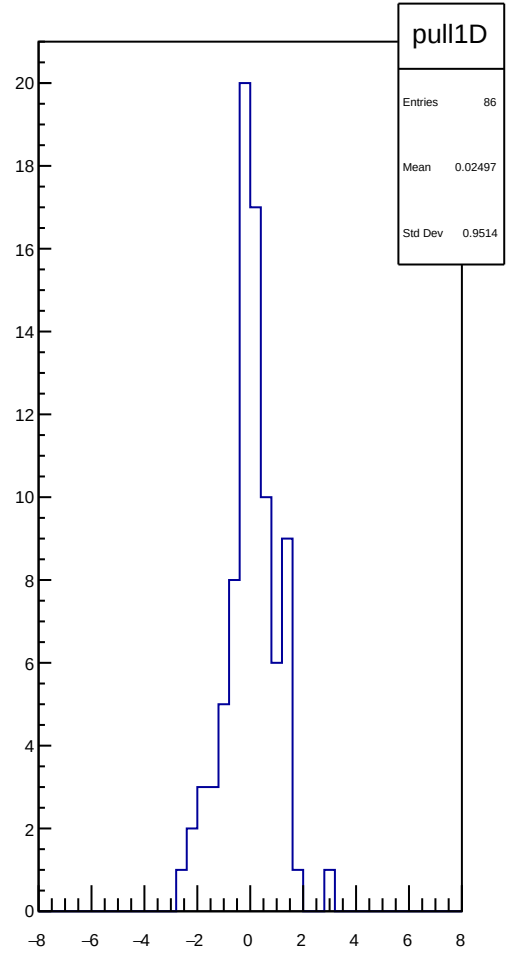

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 3.017e+05 / 85
p0 926.1 ± 0.7866
3500
3000
2500
2000
1500
1000
500

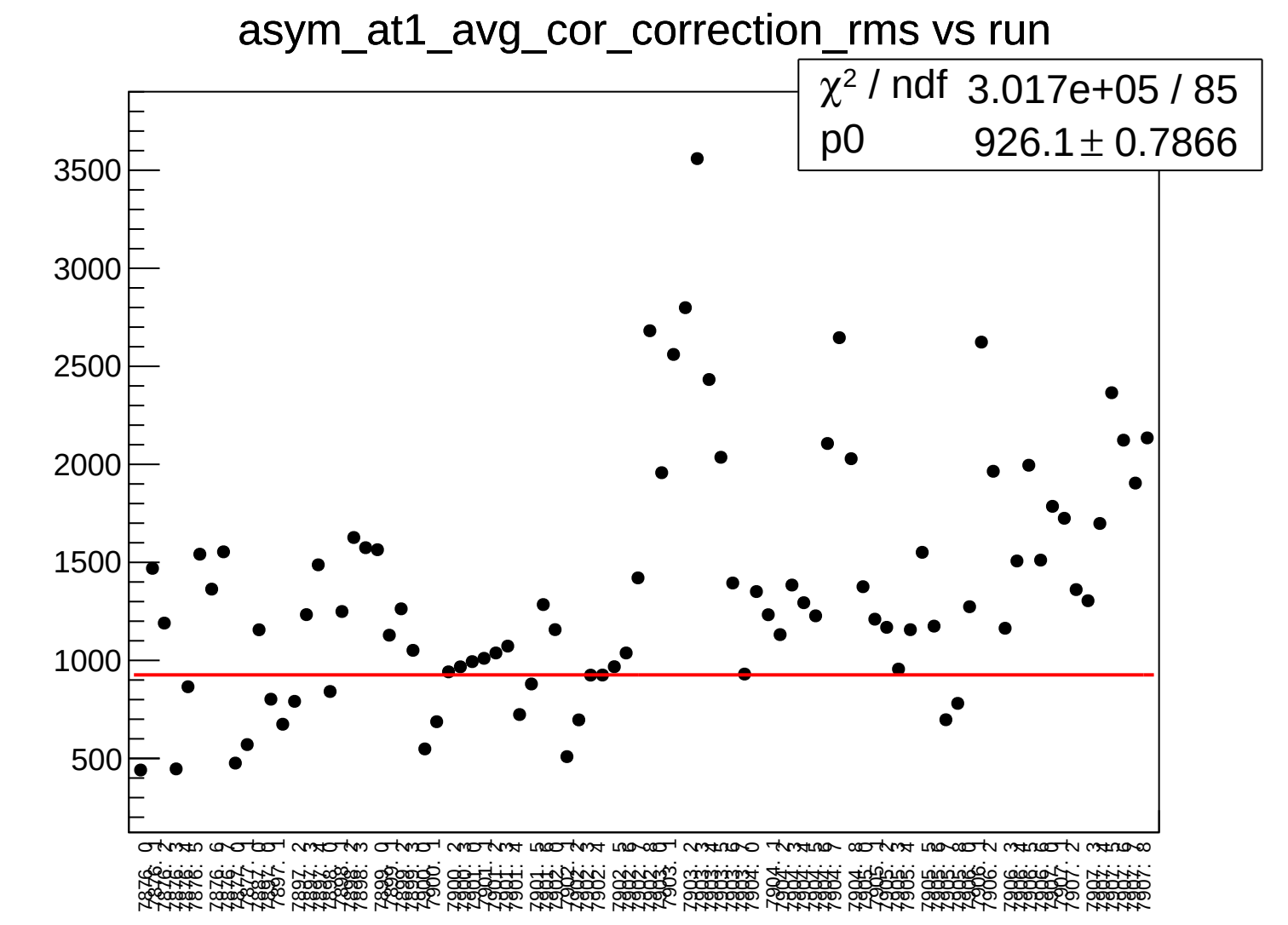

cor_asym_at1_avg_mean vs run
χ² / ndf 86.83 / 85
p0 1348 ± 2022
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1563
Std Dev 0
2
1
0
−1
−2
−3

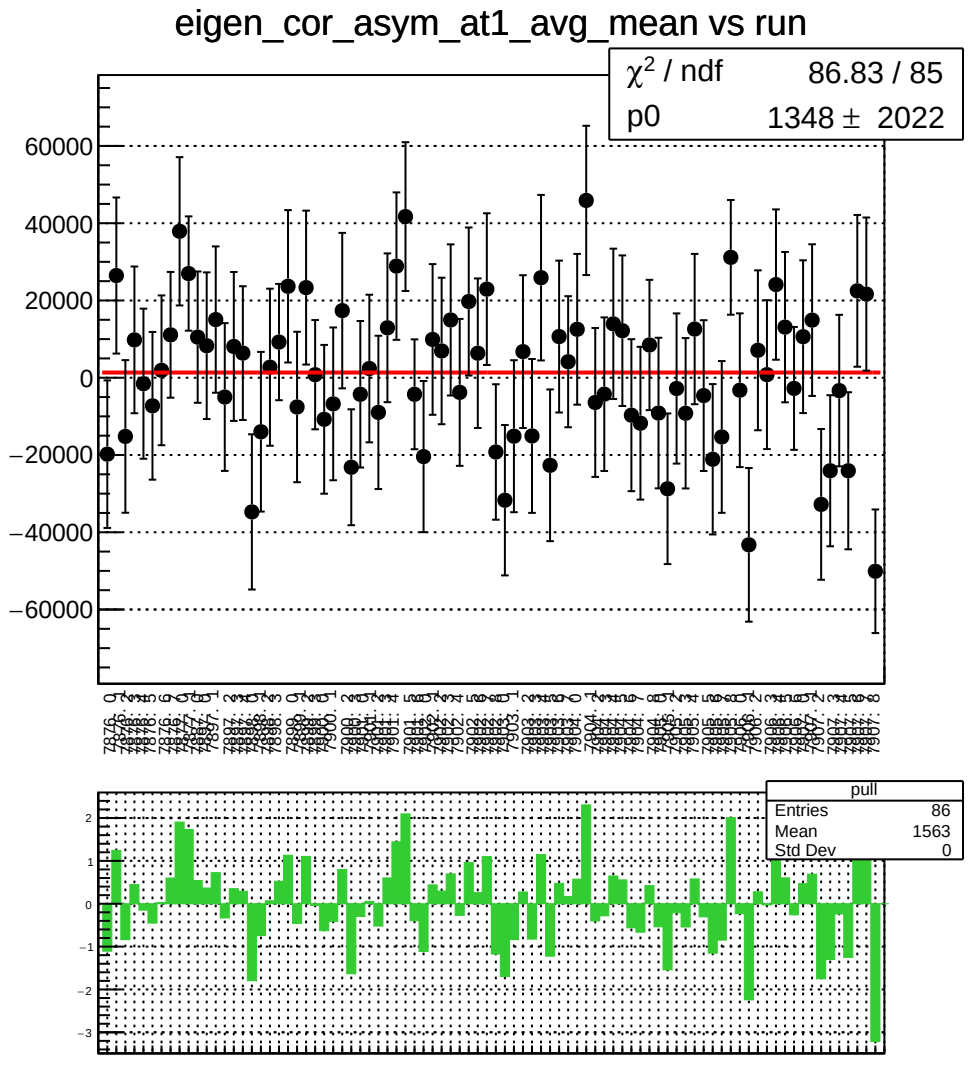

pull1D
Entries 86
Mean −0.002882
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

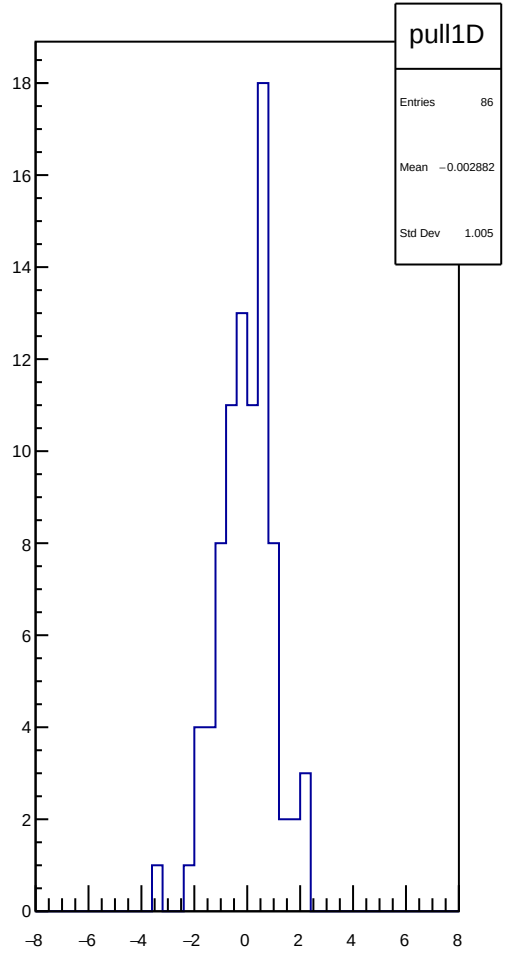

cor_asym_at1_avg_rms vs run
χ^2 / ndf 759.2 / 85
p0 1857 ± 1.43
2050
2000
1950
1900
1850
1800

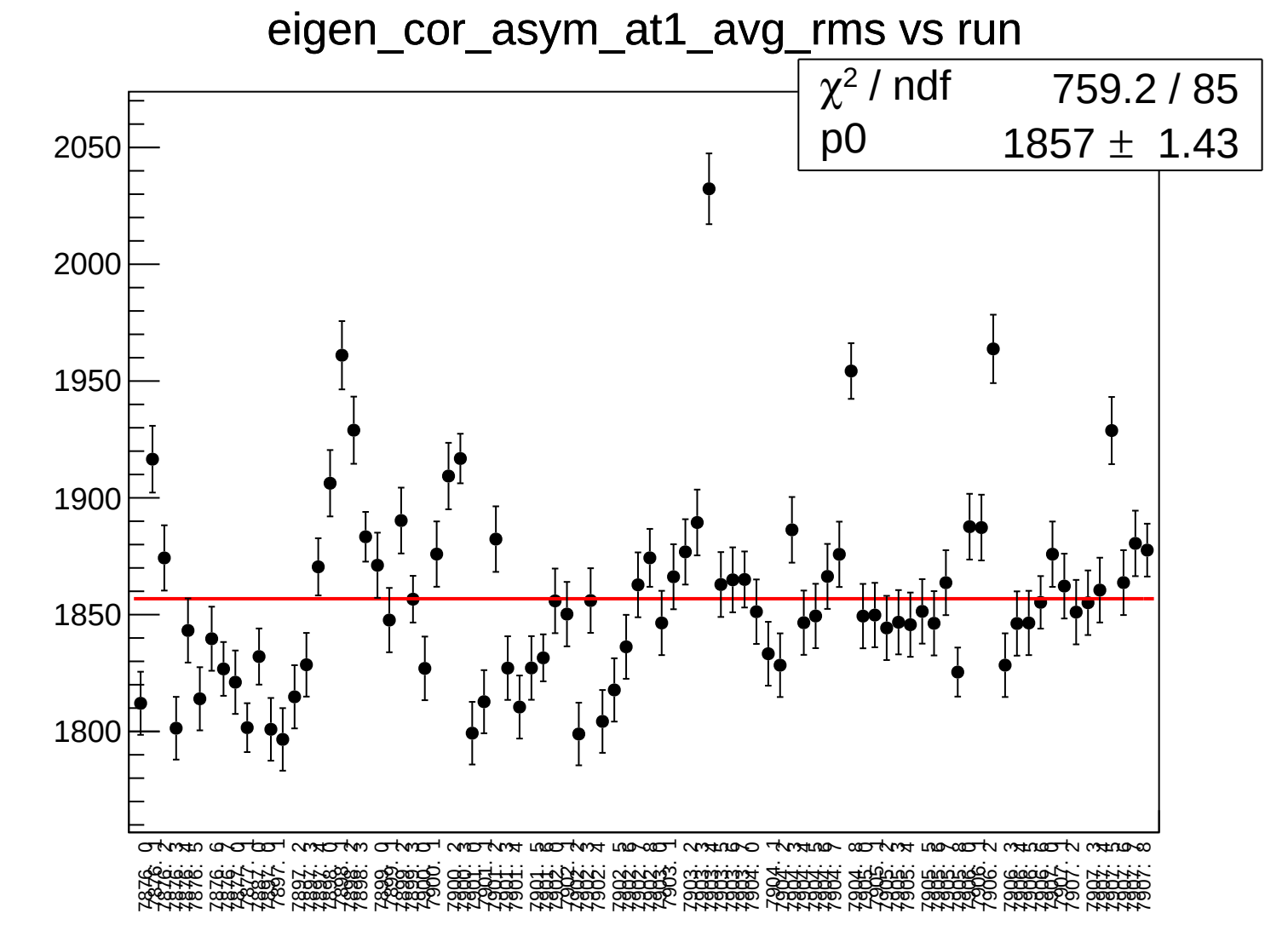

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 77.9 / 85
p0 1420 ± 1112
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −14.32
Std Dev 0
3
2
1
0
−1
−2

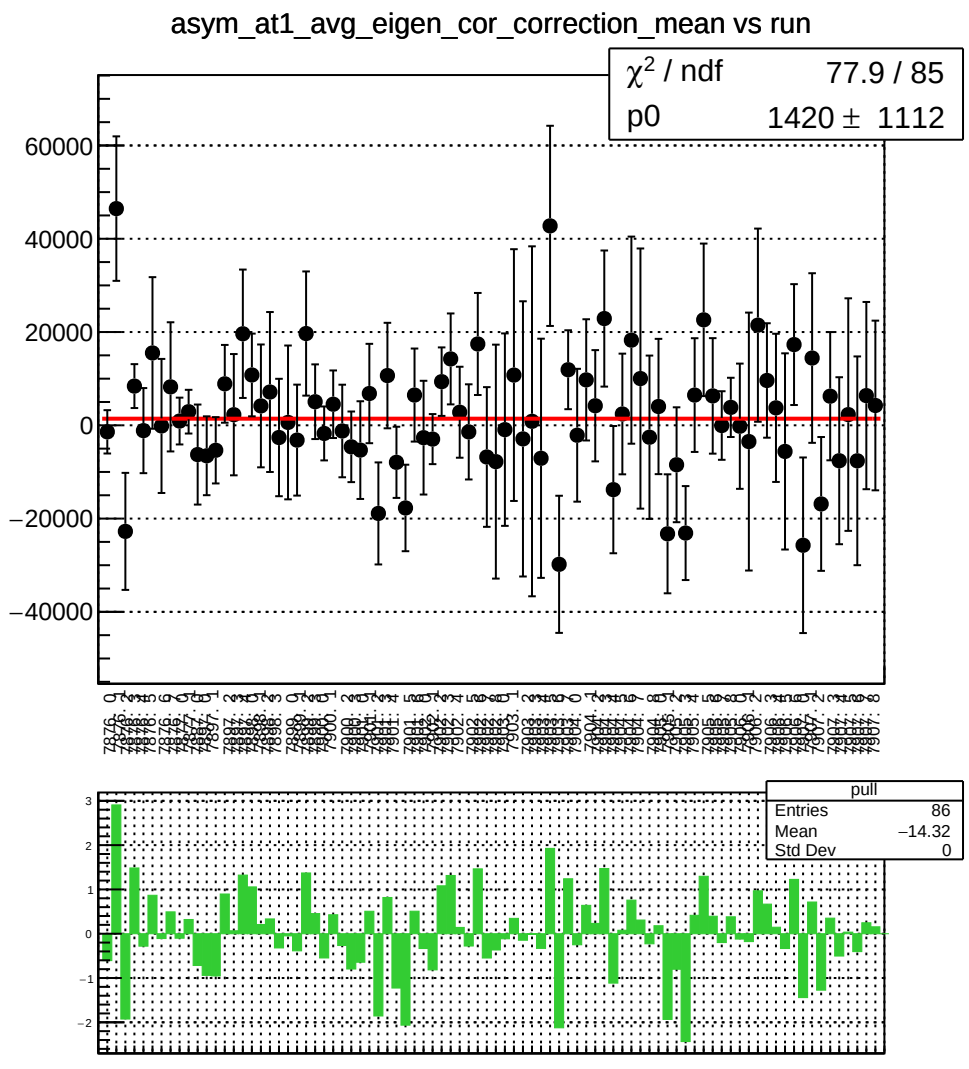

pull1D
Entries 86
Mean 0.02497
Std Dev 0.9514
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

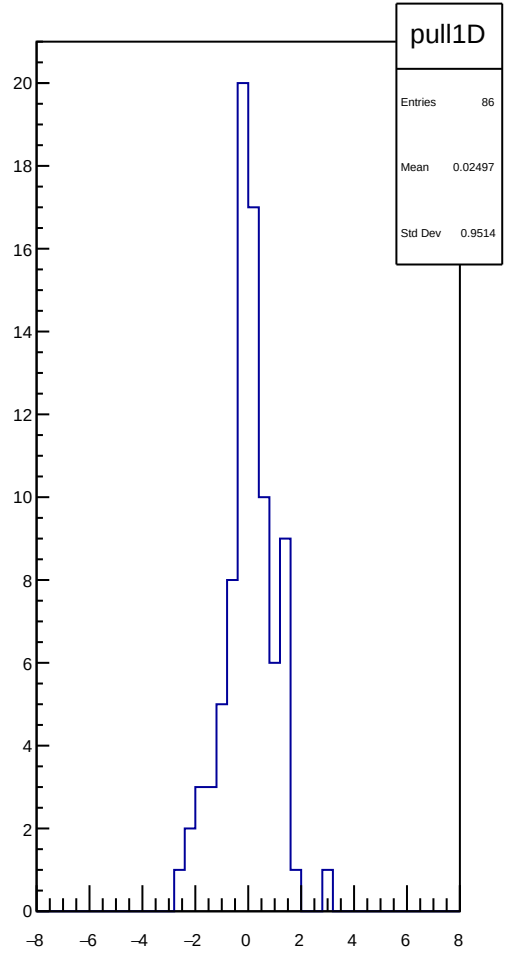

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 3.017e+05 / 85
p0 926.1 ± 0.7866
3500
3000
2500
2000
1500
1000
500

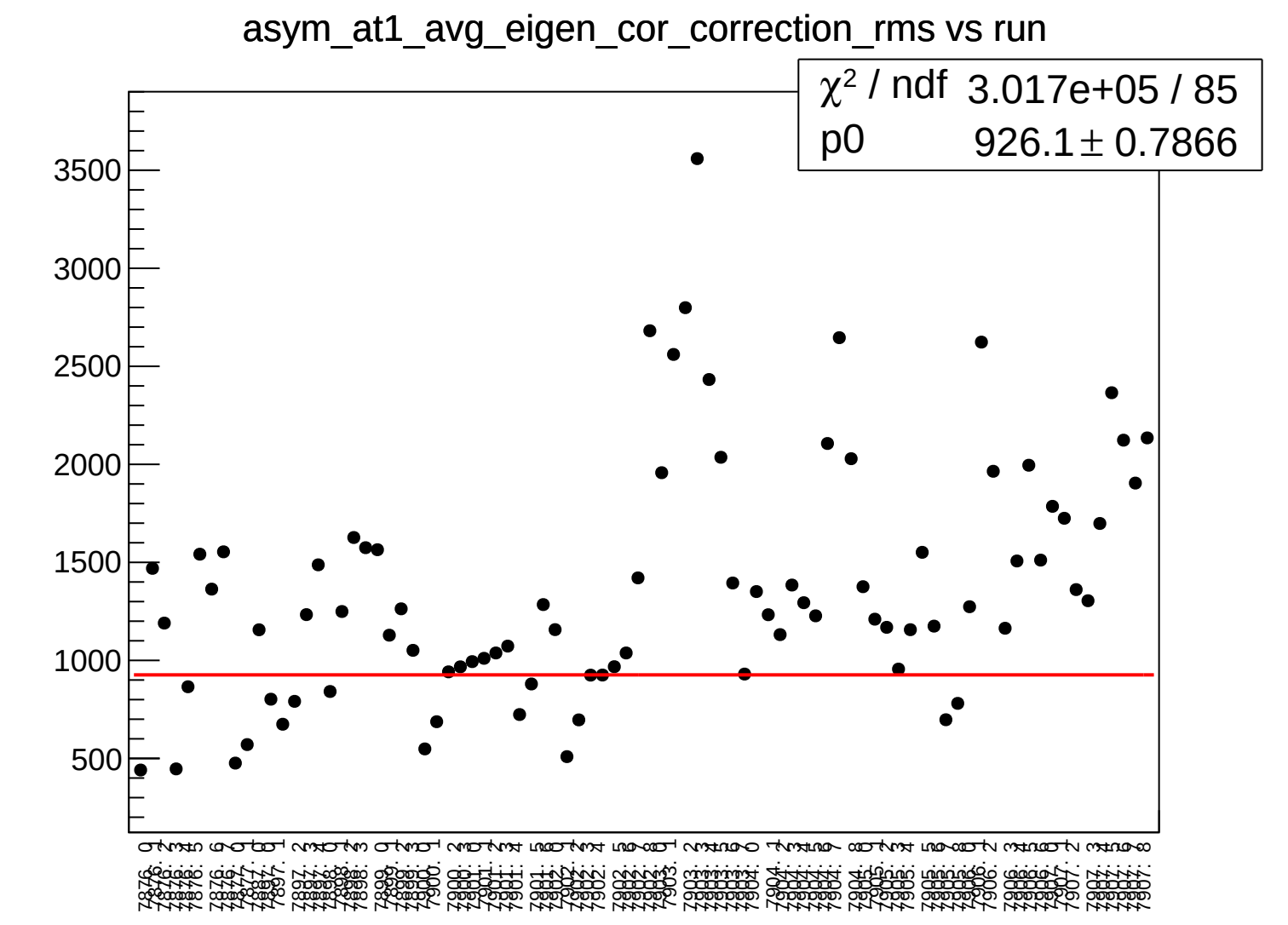

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 86.83 / 85
p0 1348 ± 2022
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1563
Std Dev 0
2
1
0
−1
−2
−3

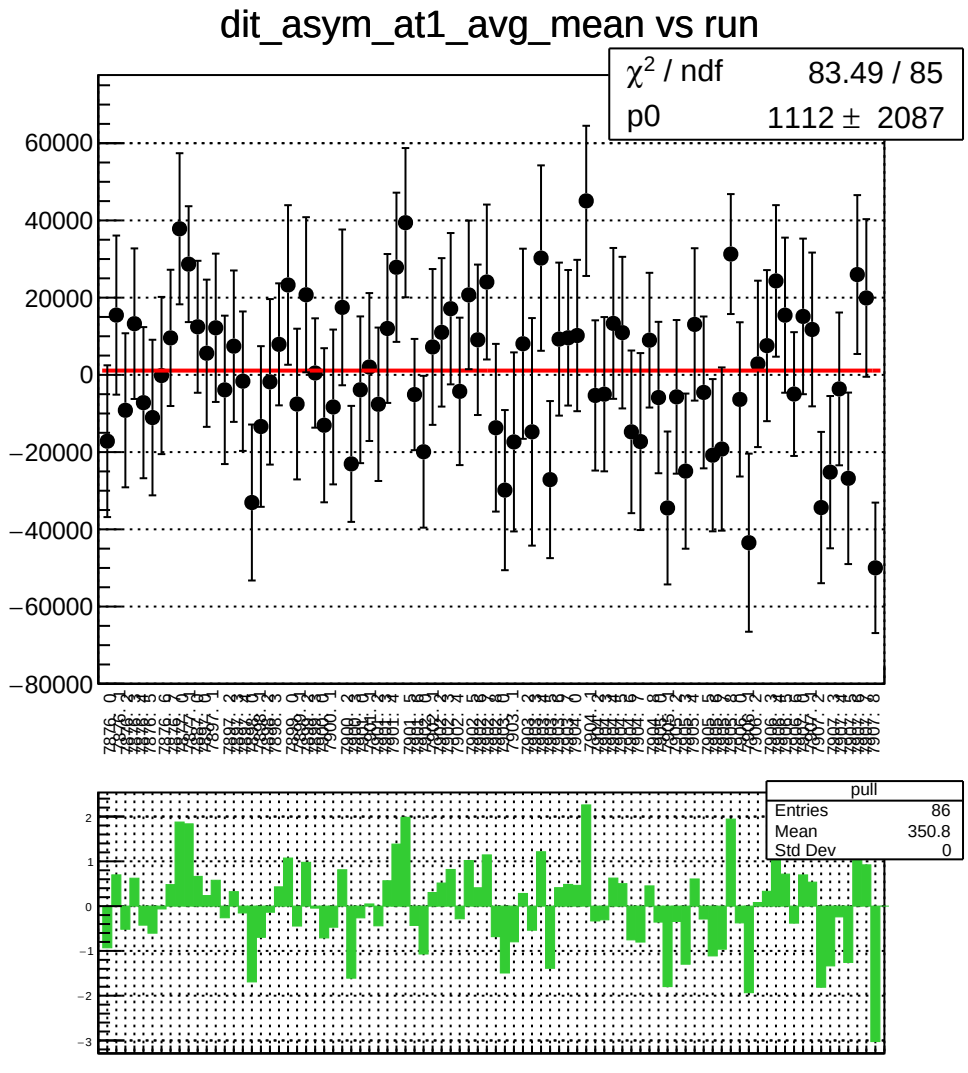

pull1D
Entries 86
Mean −0.002882
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

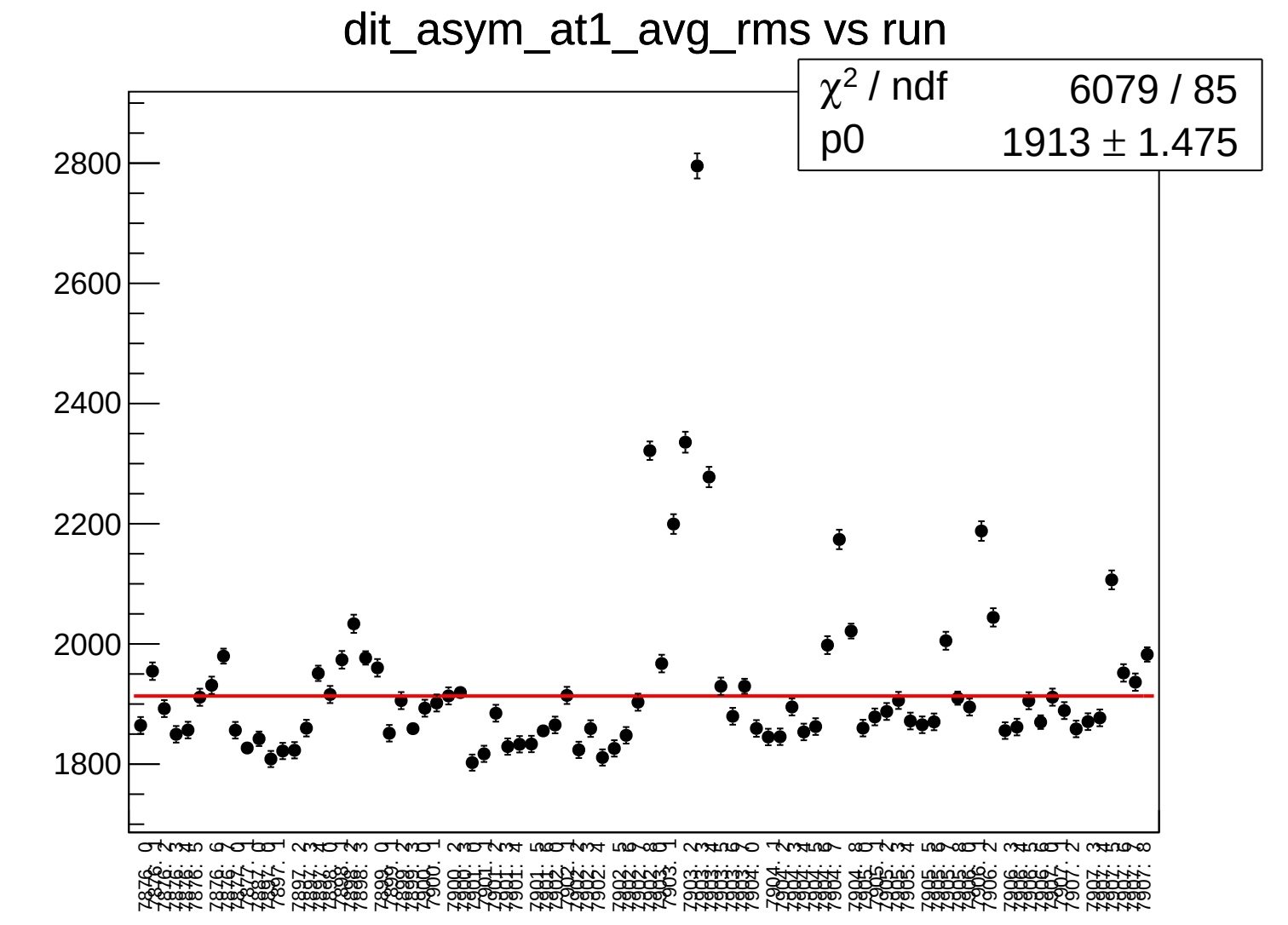

eigen_cor_asym_at1_avg_rms vs run
χ^2 / ndf 759.2 / 85
p0 1857 ± 1.43
2050
2000
1950
1900
1850
1800

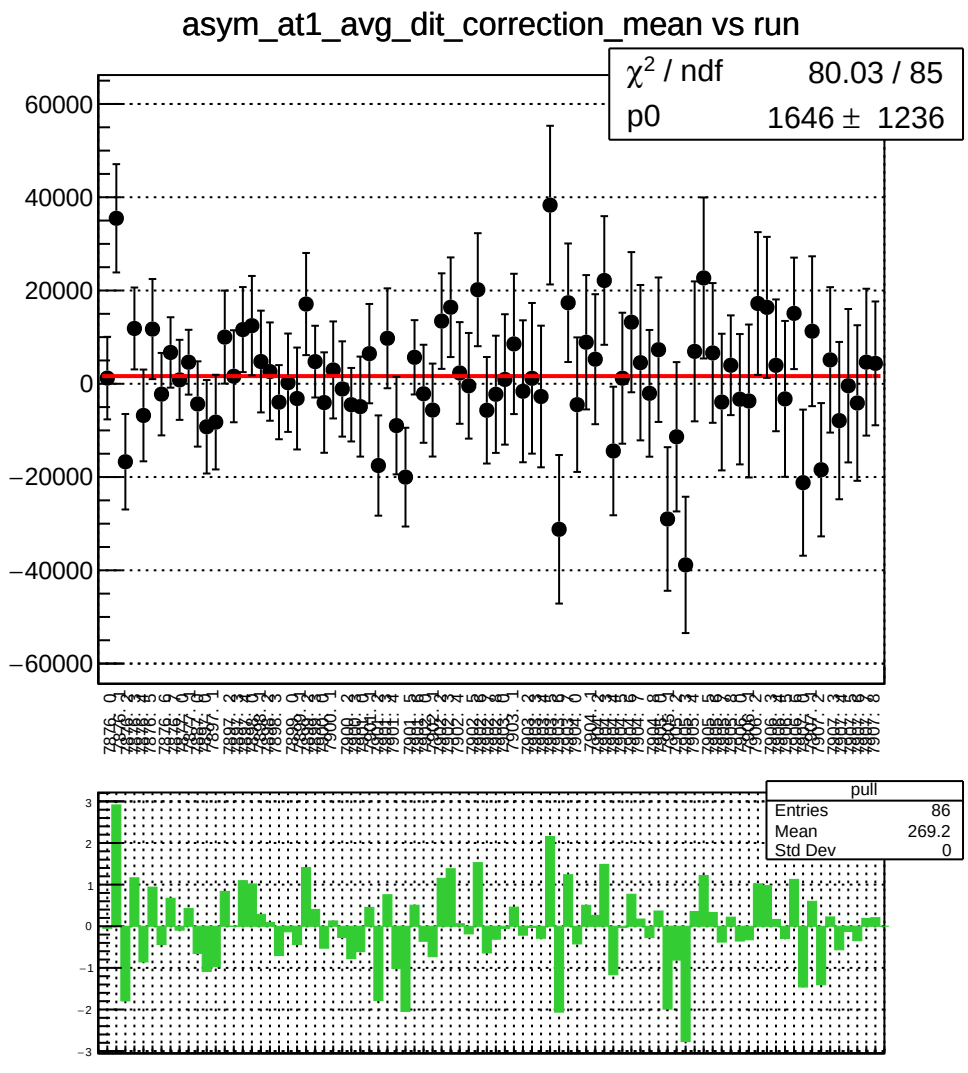

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.9 / 85
p0 1420 ± 1112
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −14.32
Std Dev 0
3
2
1
0
−1
−2

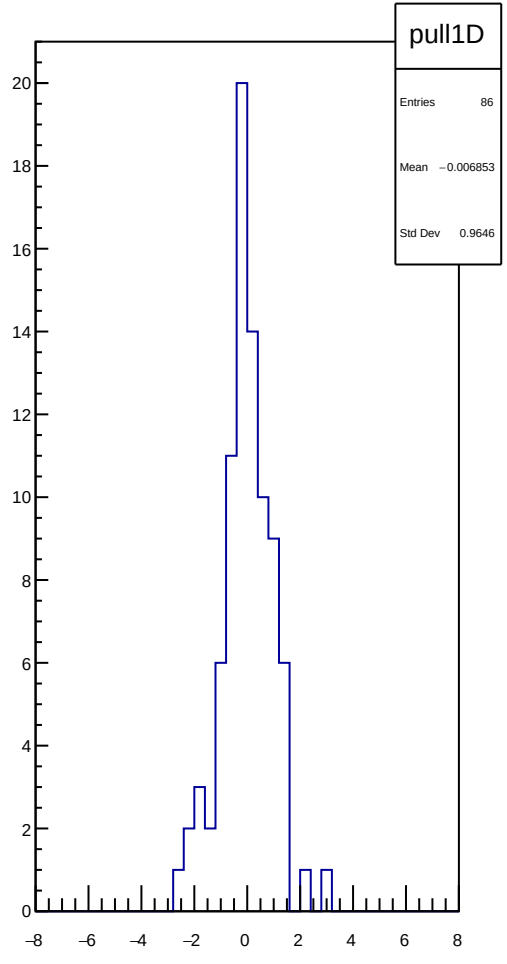

pull1D
Entries 86
Mean 0.02497
Std Dev 0.9514
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

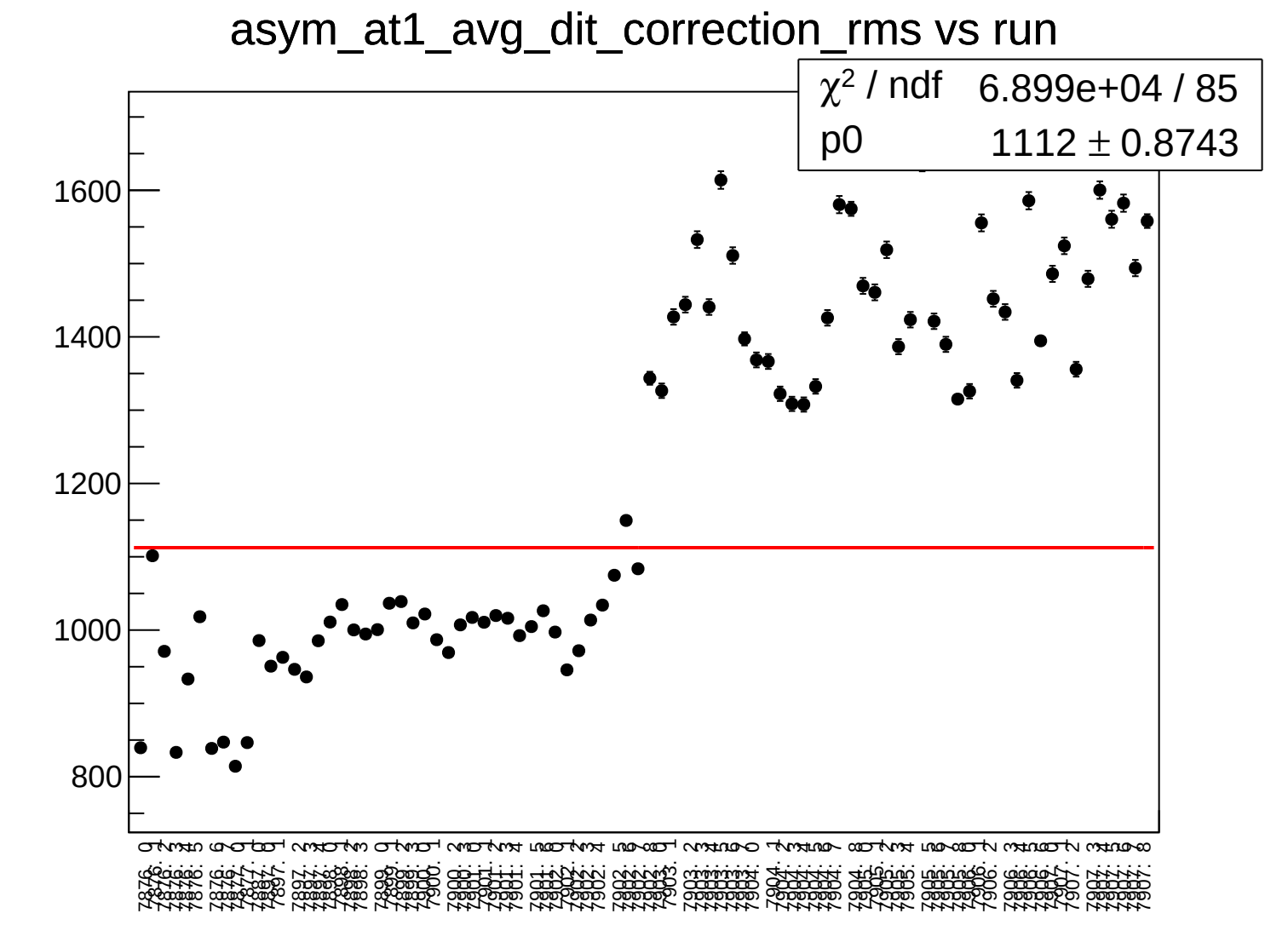

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.017e+05 / 85
p0 926.1 ± 0.7866
3500
3000
2500
2000
1500
1000
500

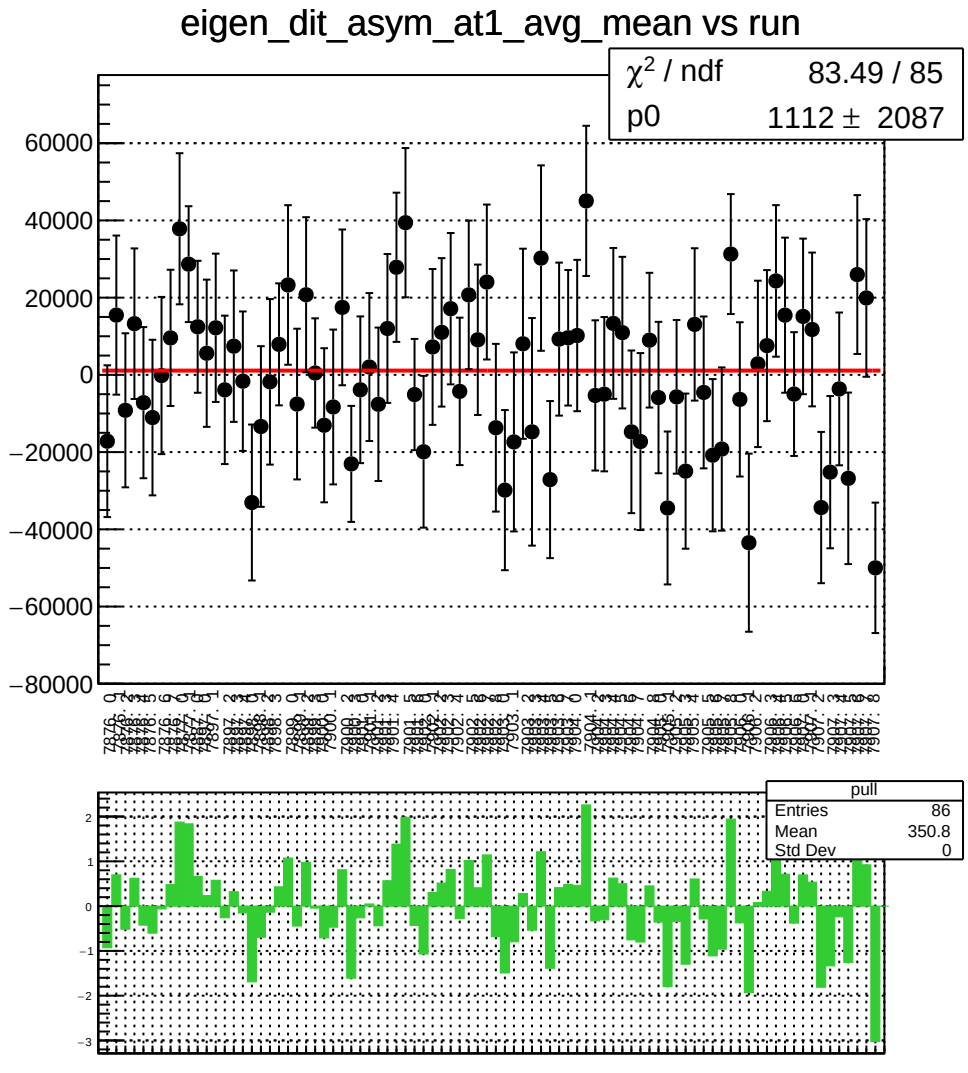

dit_asym_at1_avg_mean vs run
χ² / ndf 83.49 / 85
p0 1112 ± 2087
pull
Entries 86
Mean 350.8
Std Dev 0
pull1D
Entries 86
Mean −0.01304
Std Dev 0.9852

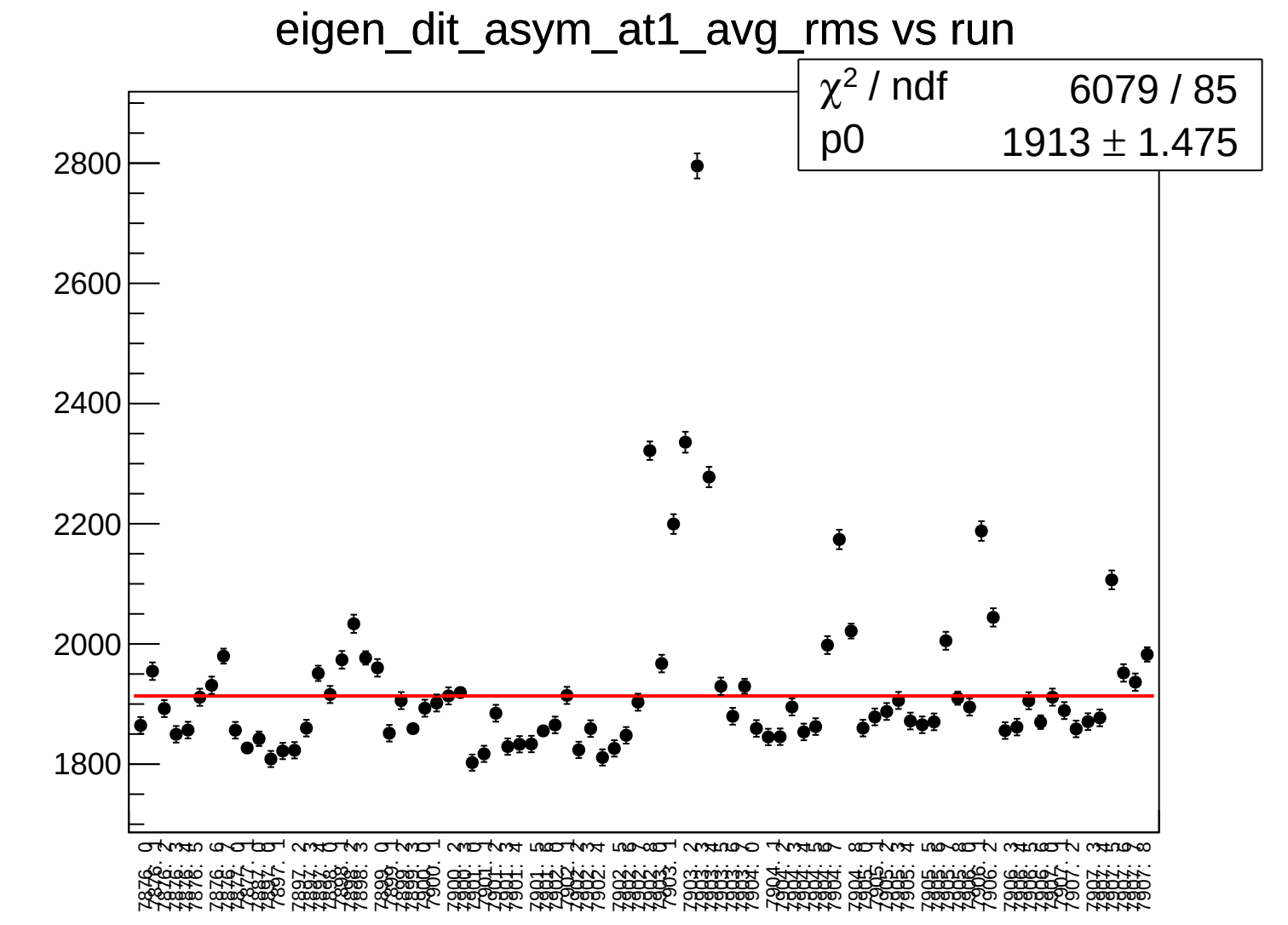

dit_asym_at1_avg_rms vs run
χ^2 / ndf 6079 / 85
p0 1913 ± 1.475
2800
2600
2400
2200
2000
1800

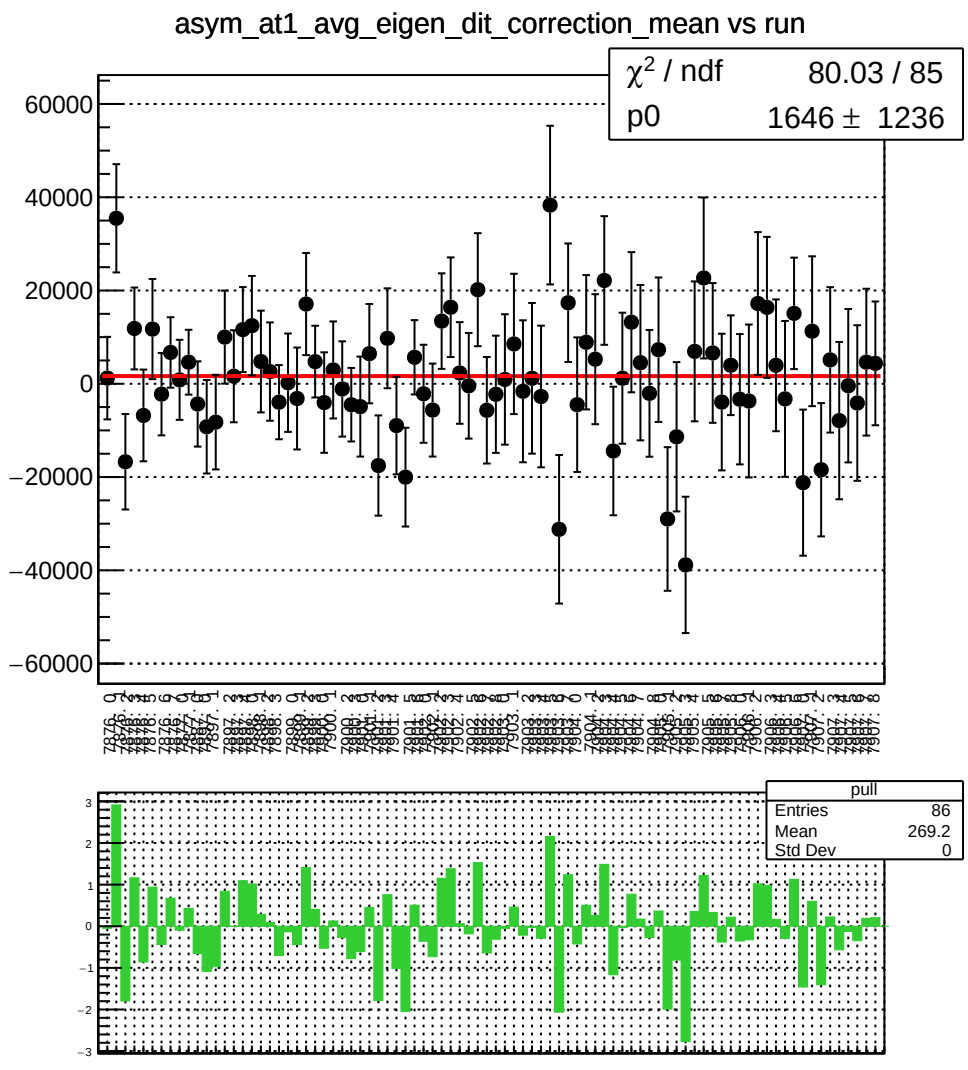

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 80.03 / 85
p0 1646 ± 1236
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 269.2
Std Dev 0
3
2
1
0
−1
−2
−3

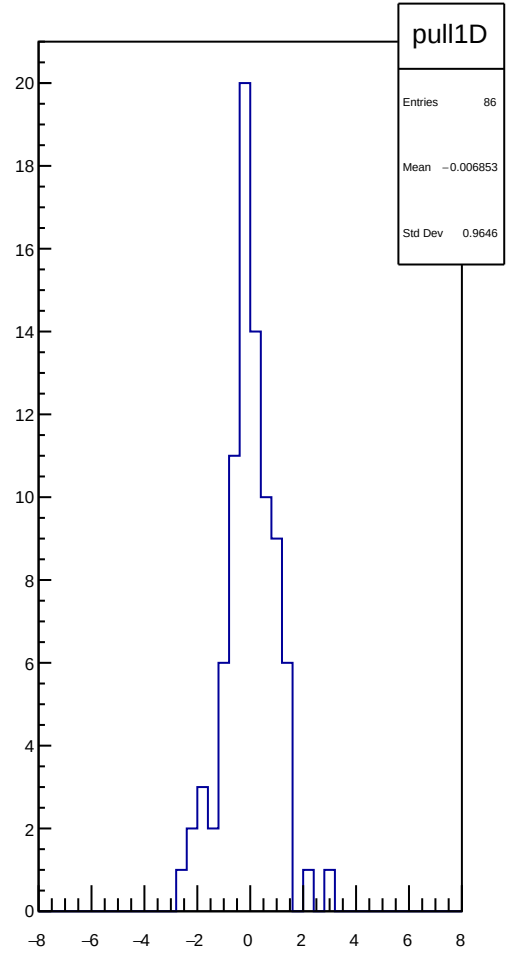

pull1D
Entries 86
Mean −0.006853
Std Dev 0.9646
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

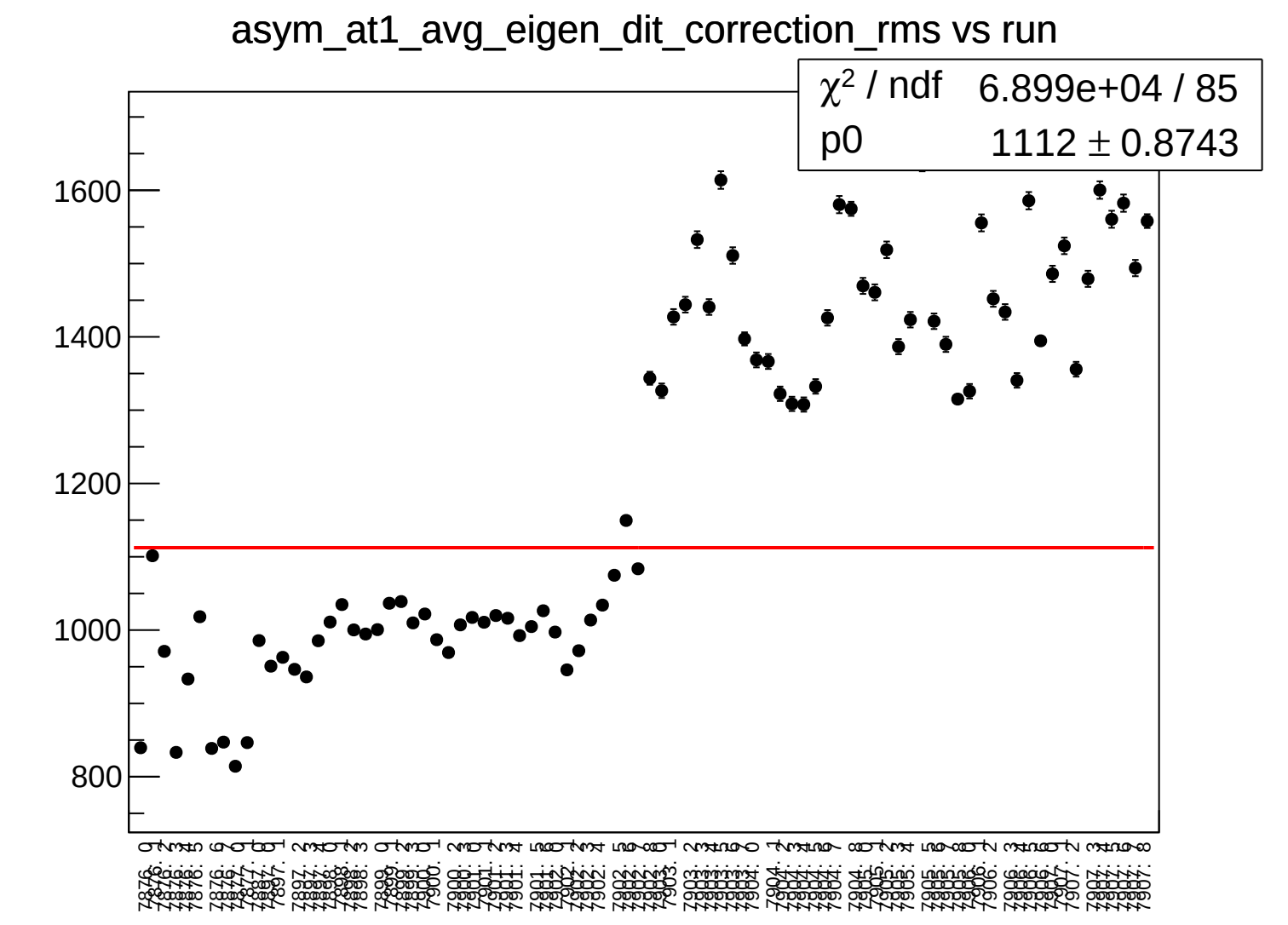

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 6.899e+04 / 85
p0 1112 ± 0.8743
1600
1400
1200
1000
800

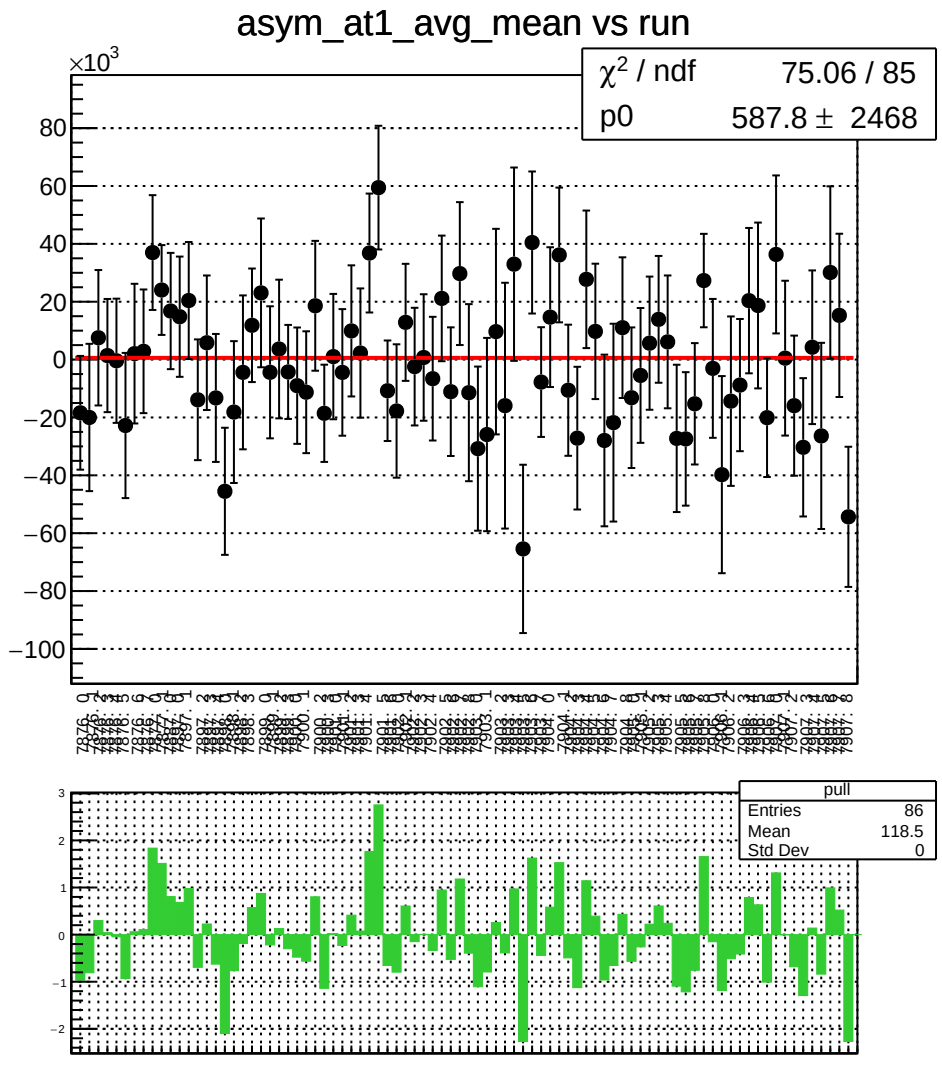

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 83.49 / 85
p0 1112 ± 2087
pull
Entries 86
Mean 350.8
Std Dev 0
pull1D
Entries 86
Mean −0.01304
Std Dev 0.9852

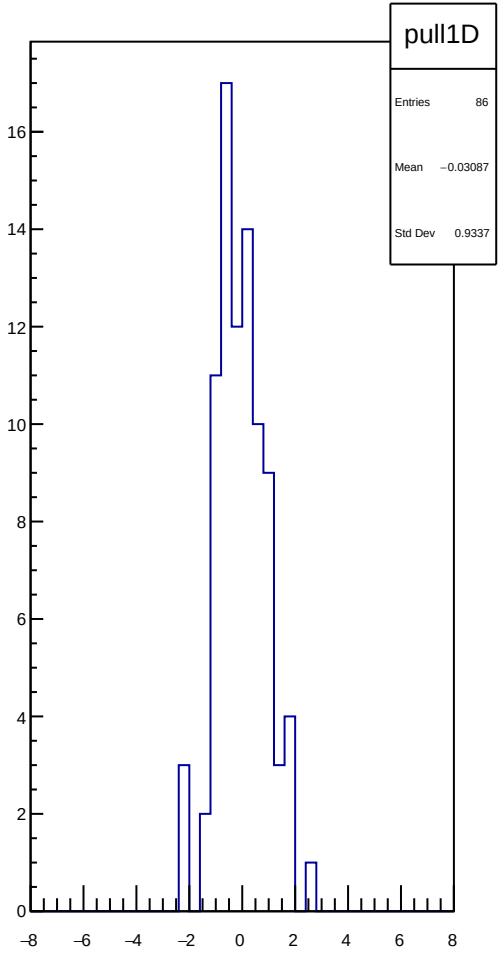

eigen_dit_asym_at1_avg_rms vs run
χ^2 / ndf 6079 / 85
p0 1913 ± 1.475
2800
2600
2400
2200
2000
1800

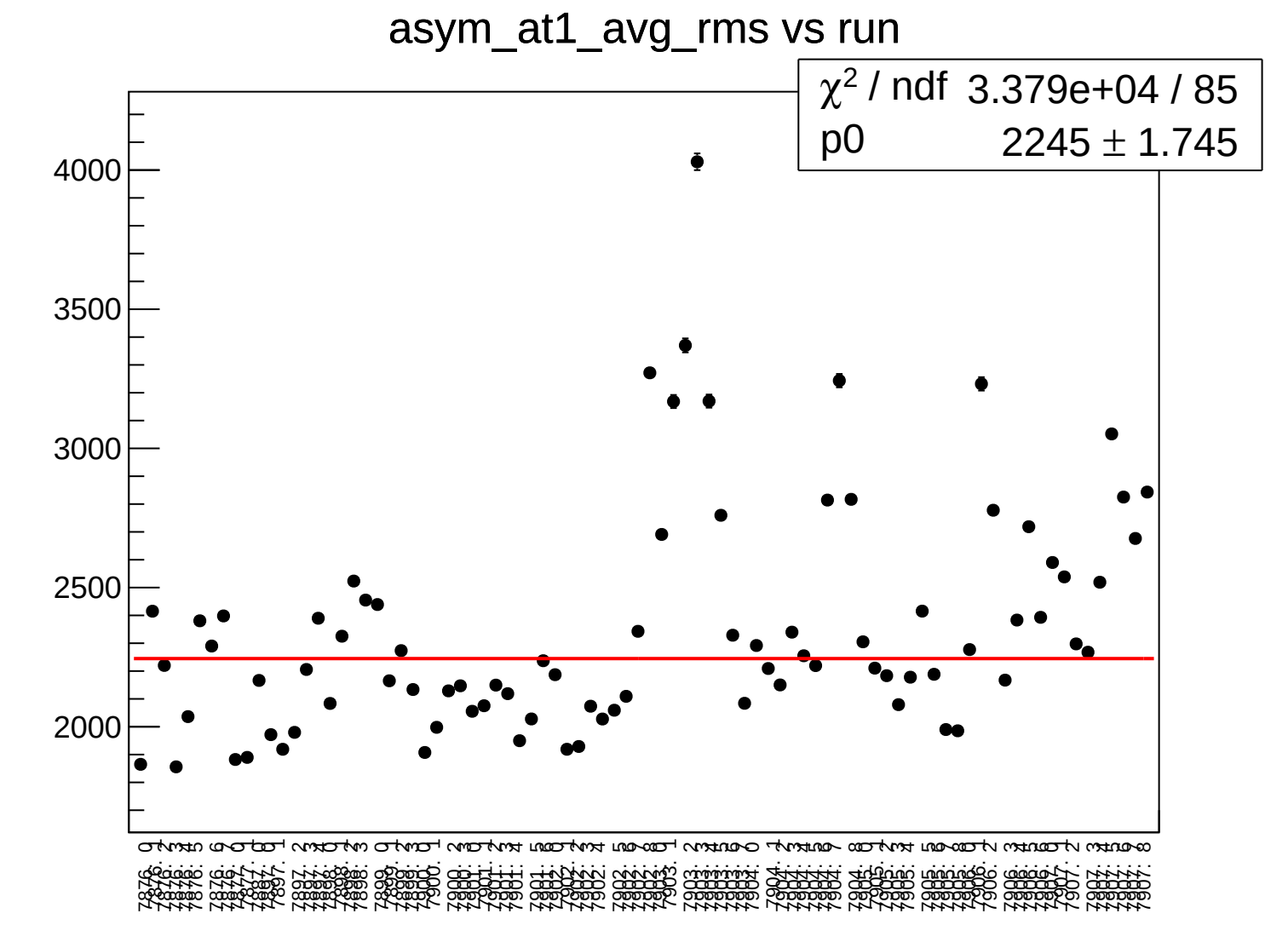

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.03 / 85
p0 1646 ± 1236
pull
Entries 86
Mean 269.2
Std Dev 0

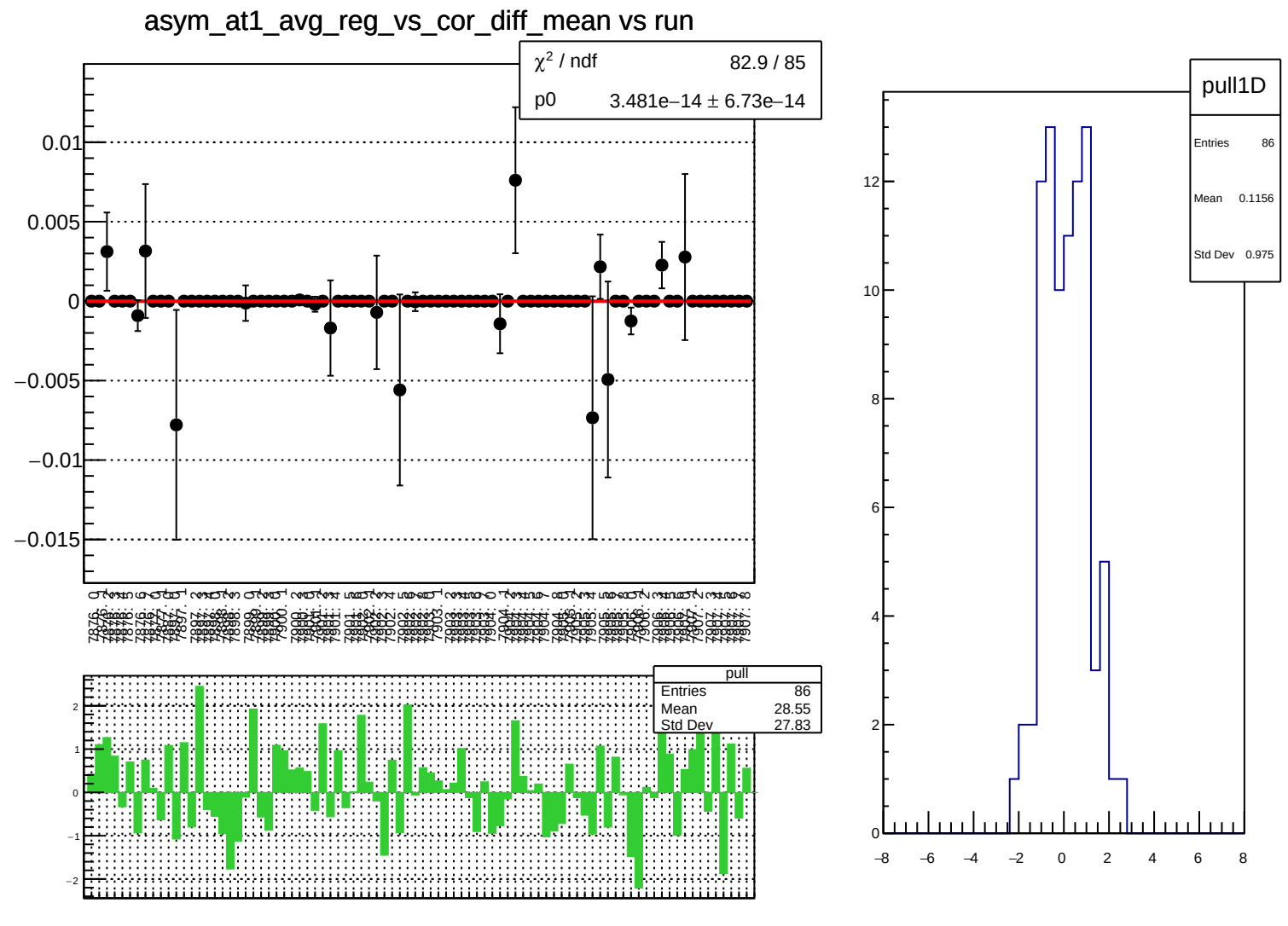

pull1D
Entries 86
Mean −0.006853
Std Dev 0.9646

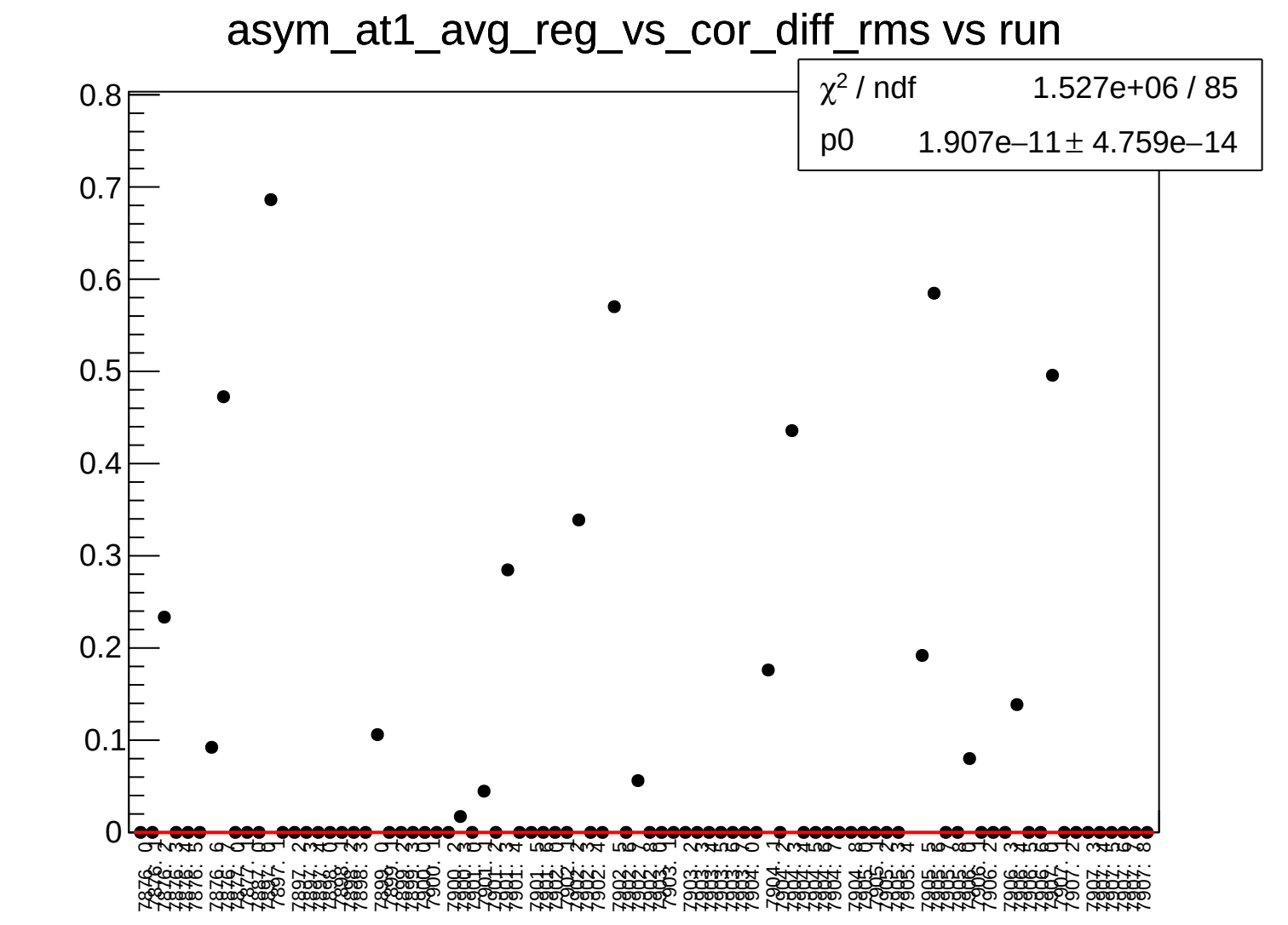

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.899e+04 / 85
p0 1112 ± 0.8743
1600
1400
1200
1000
800

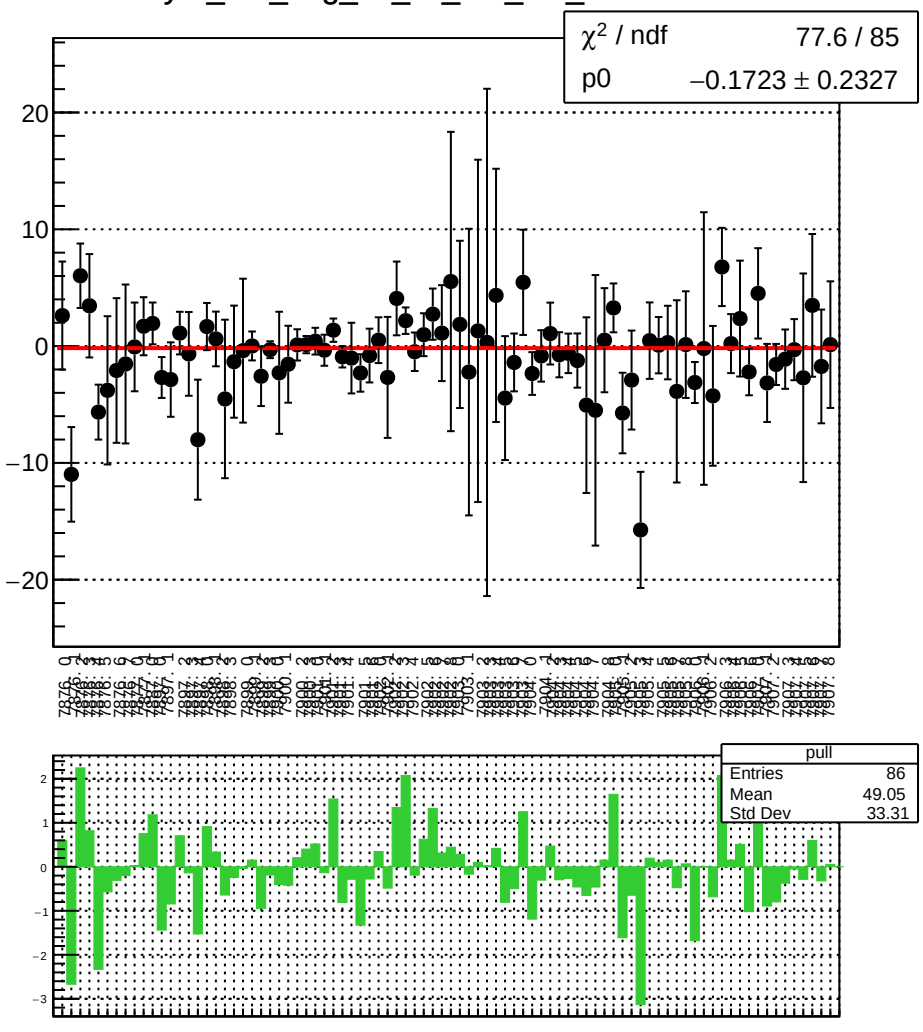

asym_at1_avg_mean vs run
×10^3
χ² / ndf 75.06 / 85
p0 587.8 ± 2468
pull
Entries 86
Mean 118.5
Std Dev 0

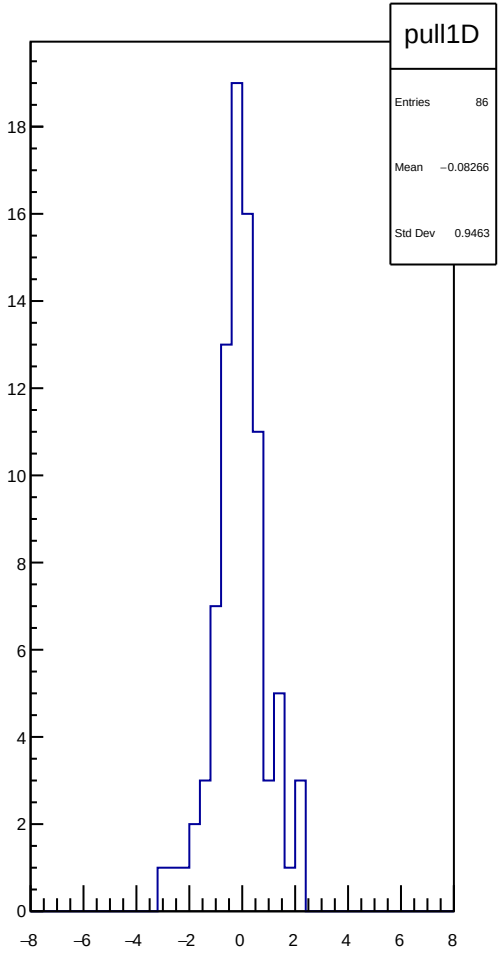

pull1D
Entries 86
Mean −0.03087
Std Dev 0.9337

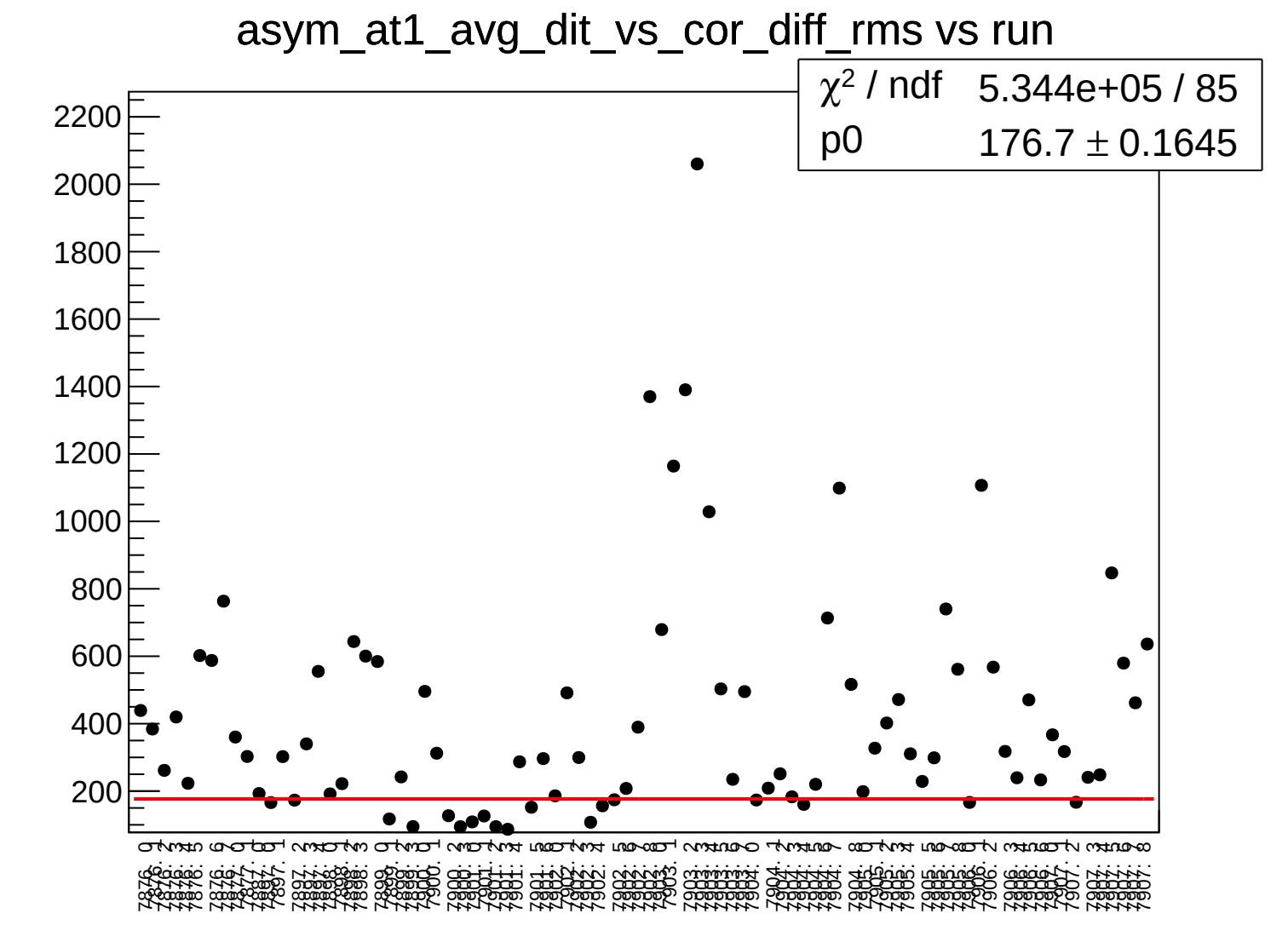

asym_at1_avg_rms vs run
χ^2 / ndf 3.379e+04 / 85
p0 2245 ± 1.745
4000
3500
3000
2500
2000

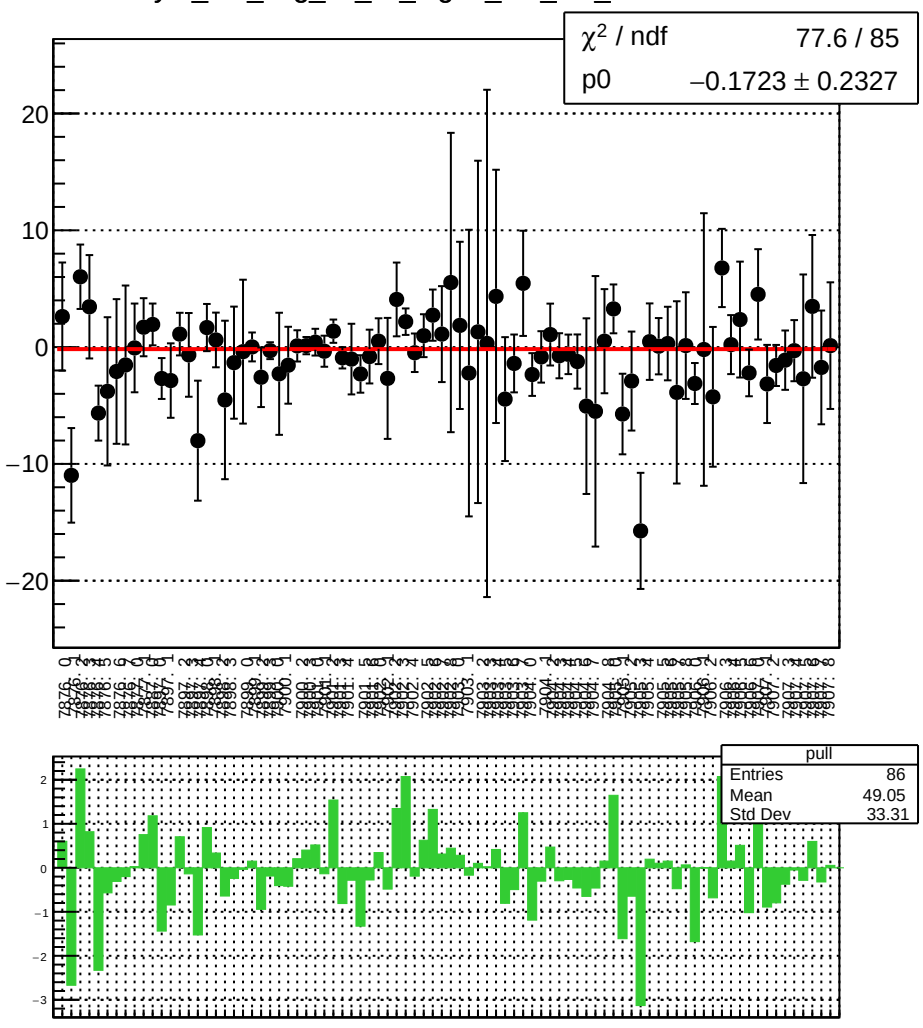

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.9 / 85
p0 3.481e−14 ± 6.73e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean 28.55
Std Dev 27.83
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.1156
Std Dev 0.975
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

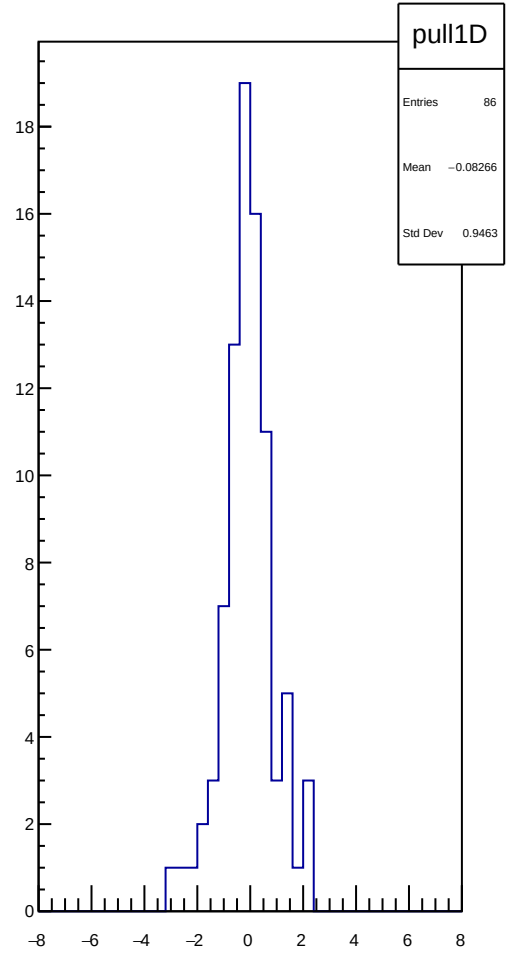

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.527e+06 / 85
p0 1.907e−11 ± 4.759e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

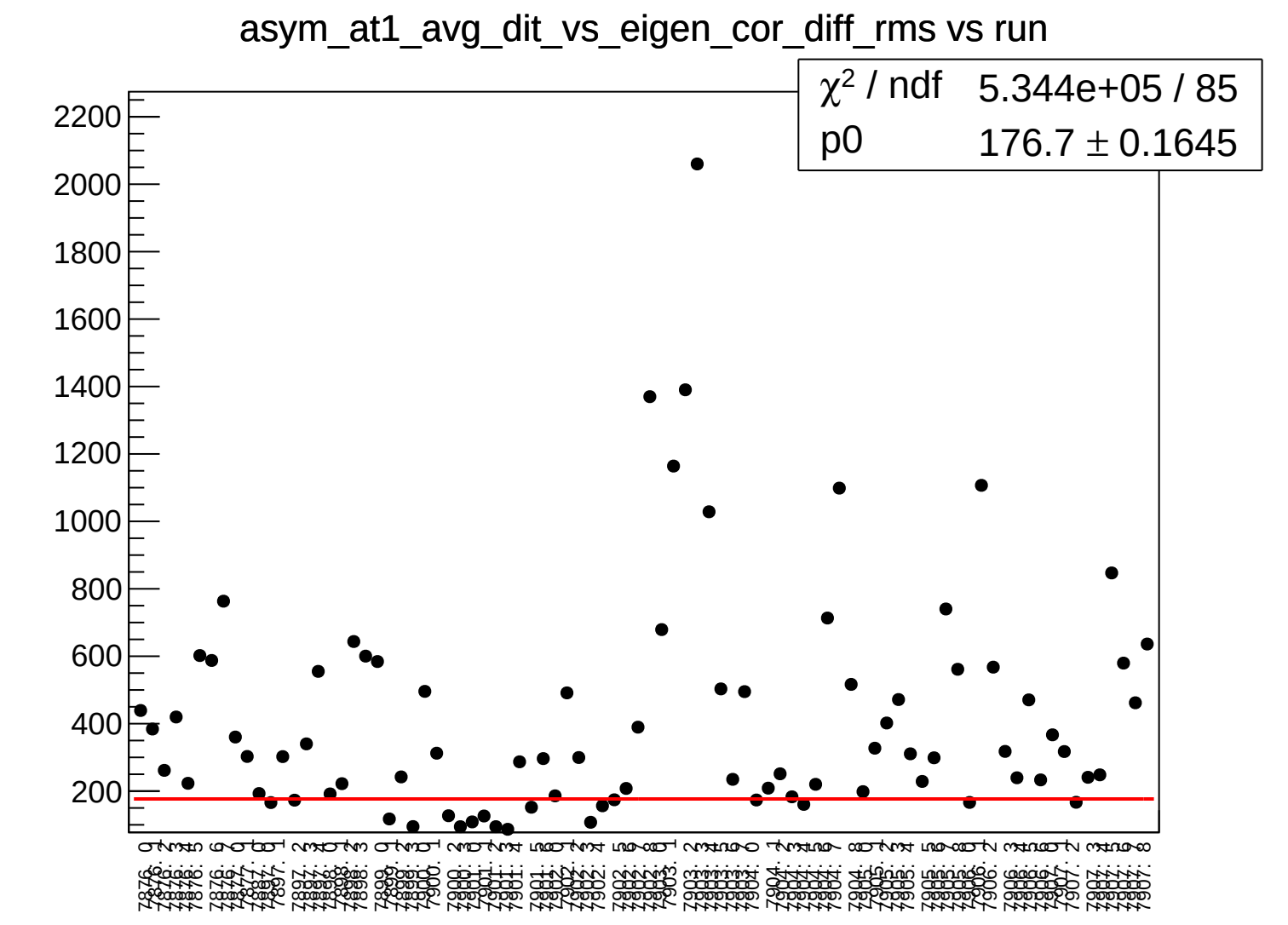

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.6 / 85
p0 −0.1723 ± 0.2327
pull
Entries 86
Mean 49.05
Std Dev 33.31

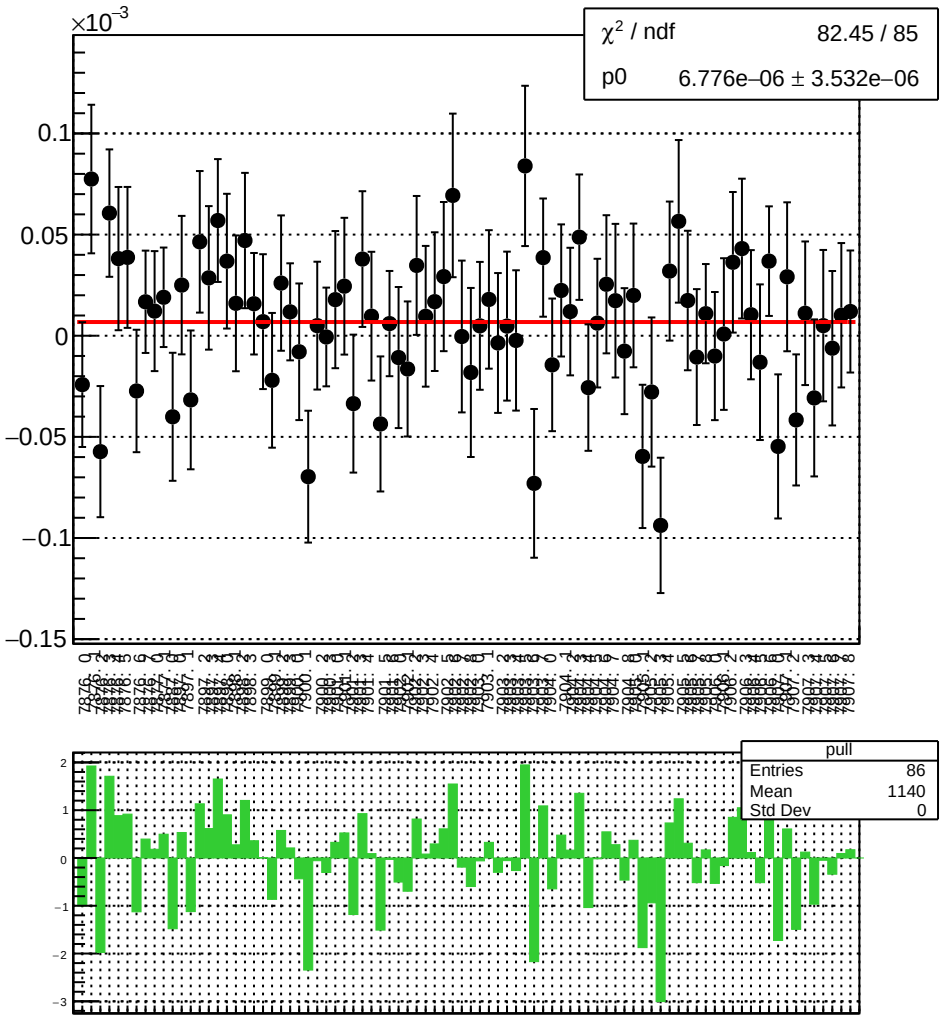

pull1D
Entries 86
Mean −0.08266
Std Dev 0.9463

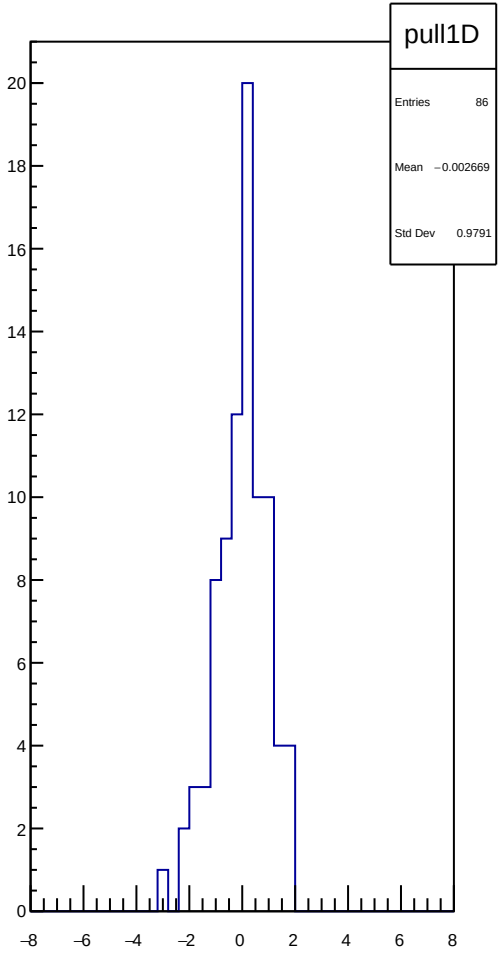

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.344e+05 / 85
p0 176.7 ± 0.1645
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

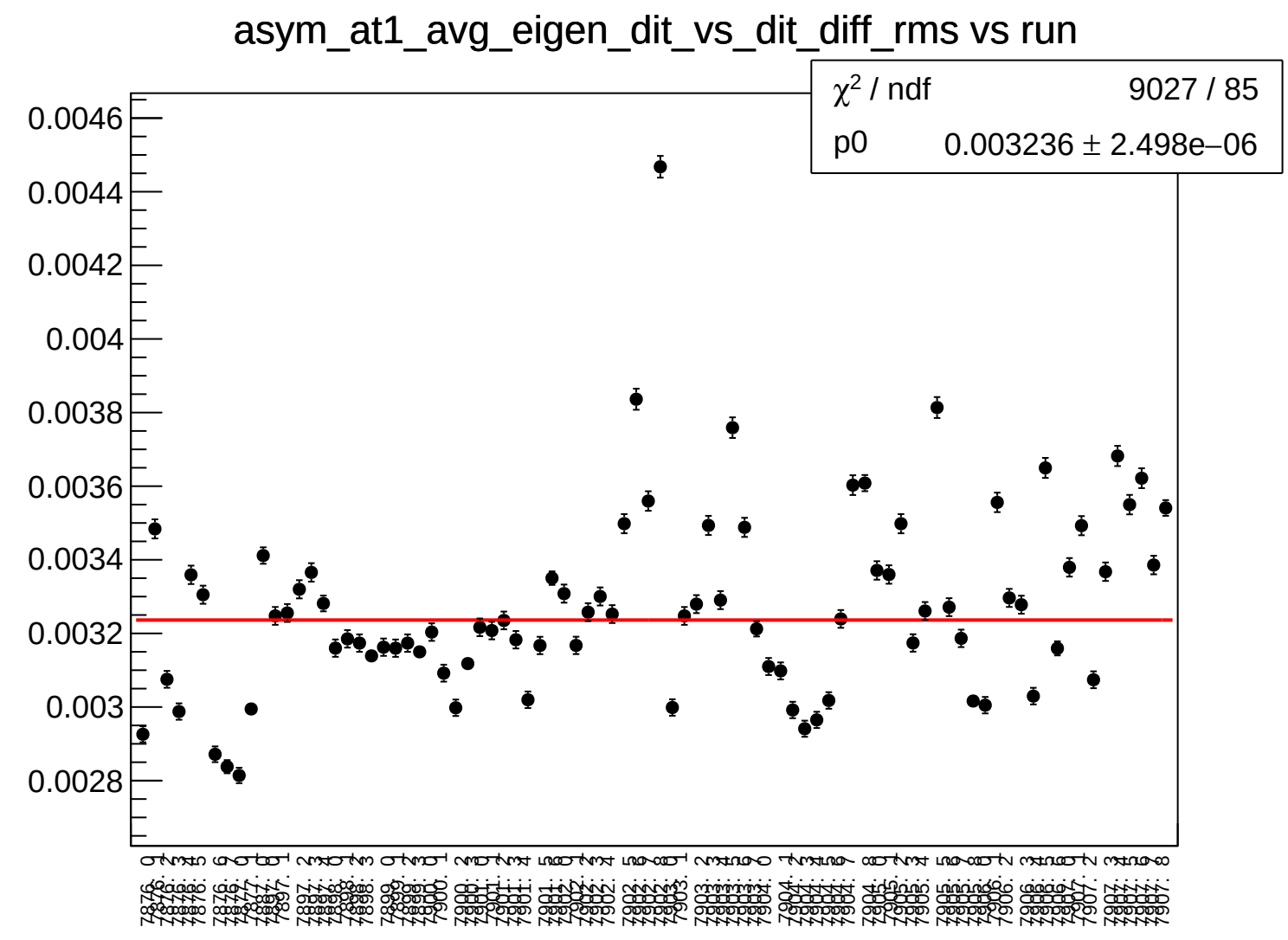

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.6 / 85
p0 −0.1723 ± 0.2327
pull
Entries 86
Mean 49.05
Std Dev 33.31

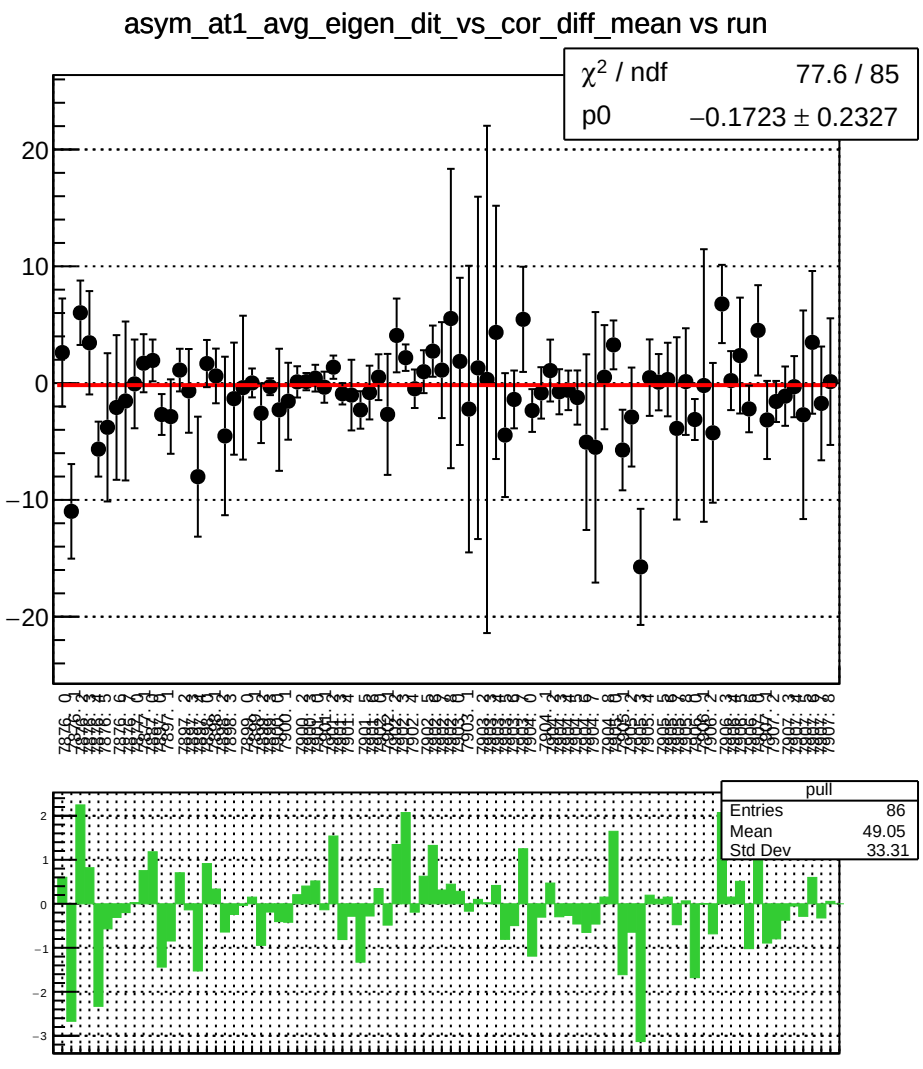

pull1D
Entries 86
Mean −0.08266
Std Dev 0.9463

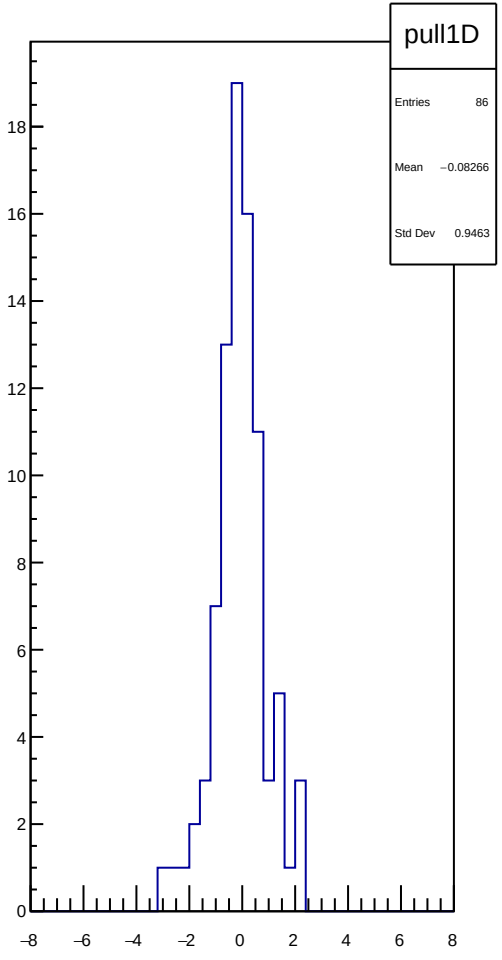

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.344e+05 / 85
p0 176.7 ± 0.1645
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

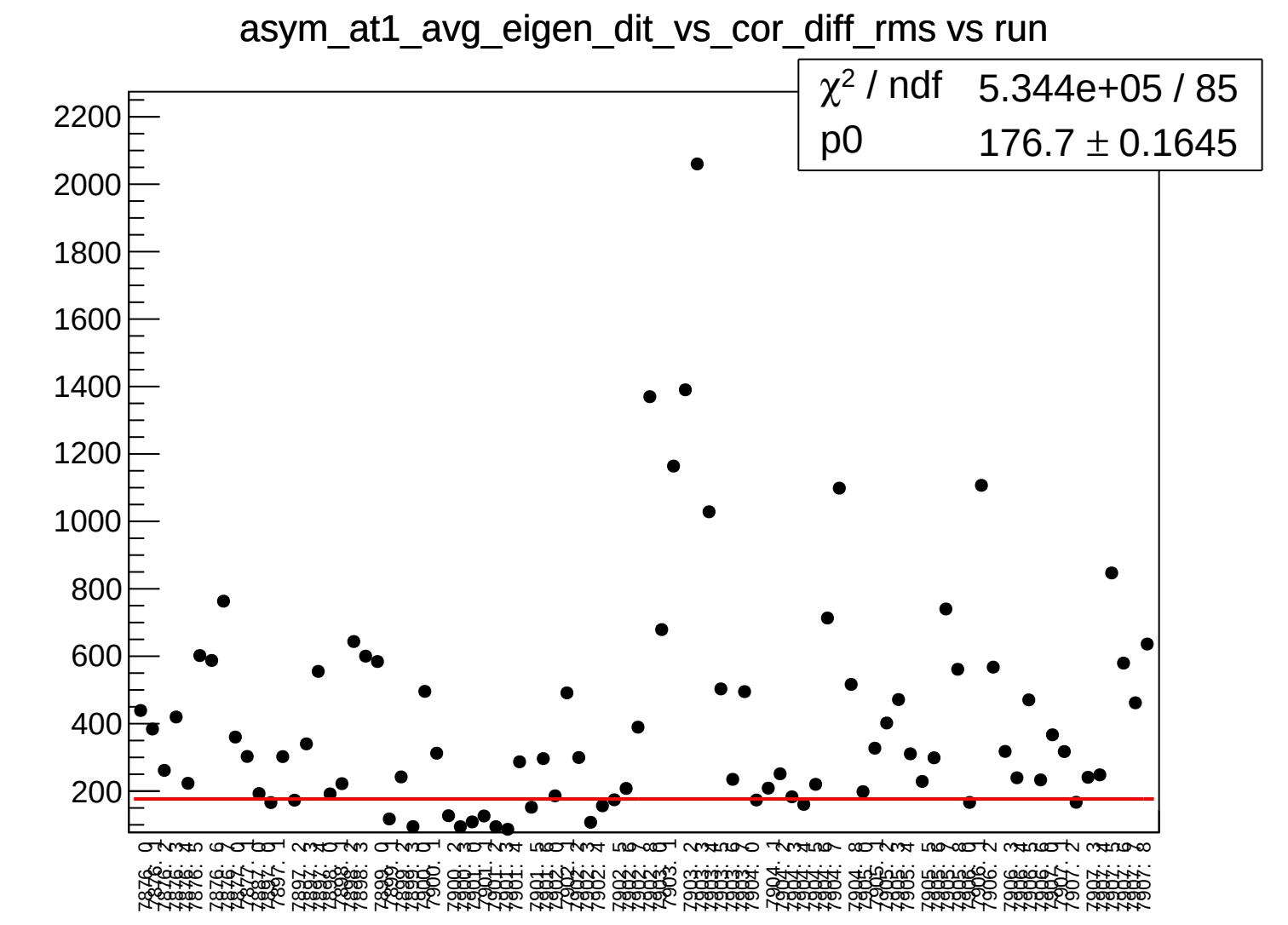

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 82.45 / 85
p0 6.776e−06 ± 3.532e−06
pull
Entries 86
Mean 1140
Std Dev 0

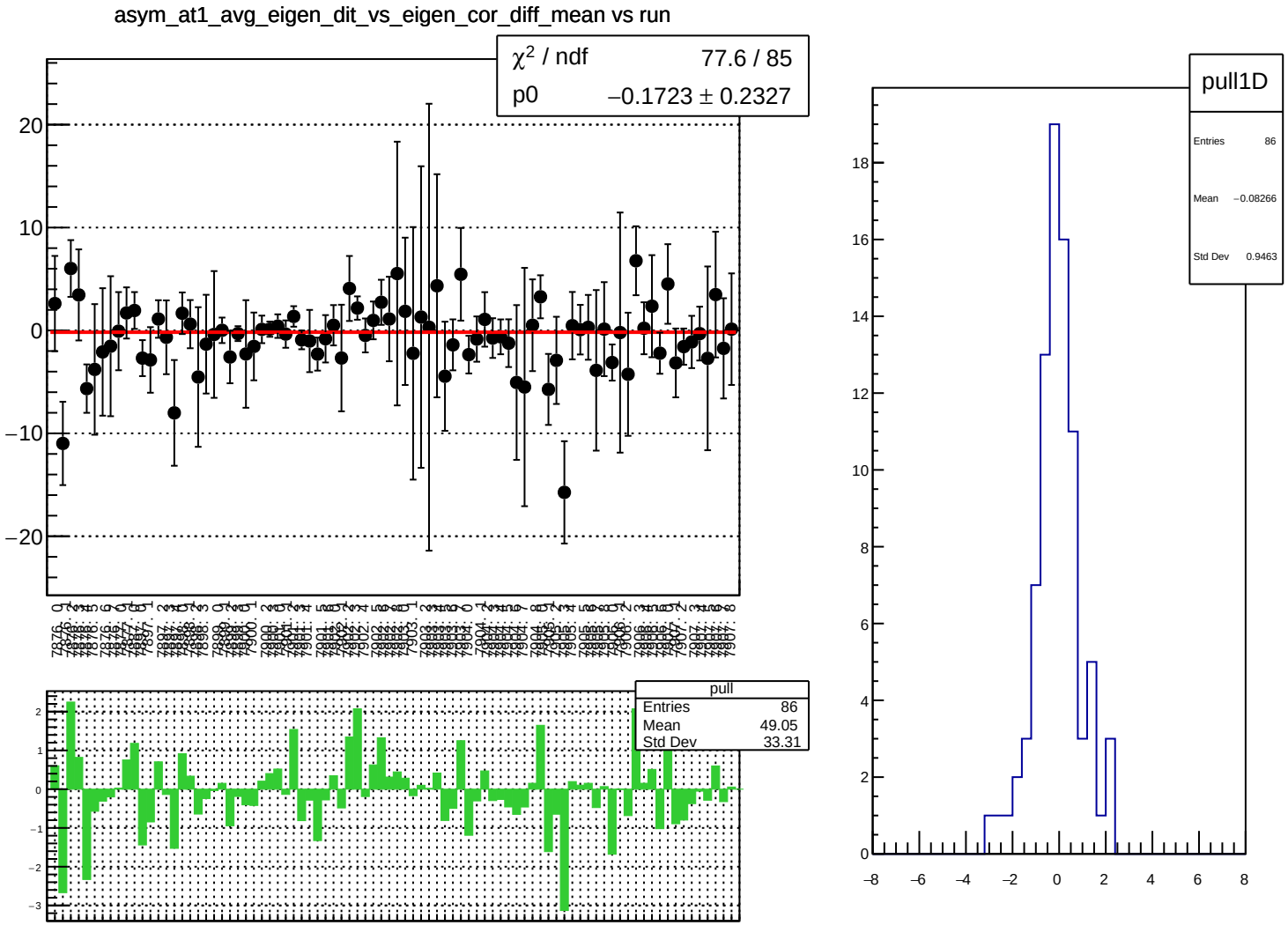

pull1D
Entries 86
Mean −0.002669
Std Dev 0.9791

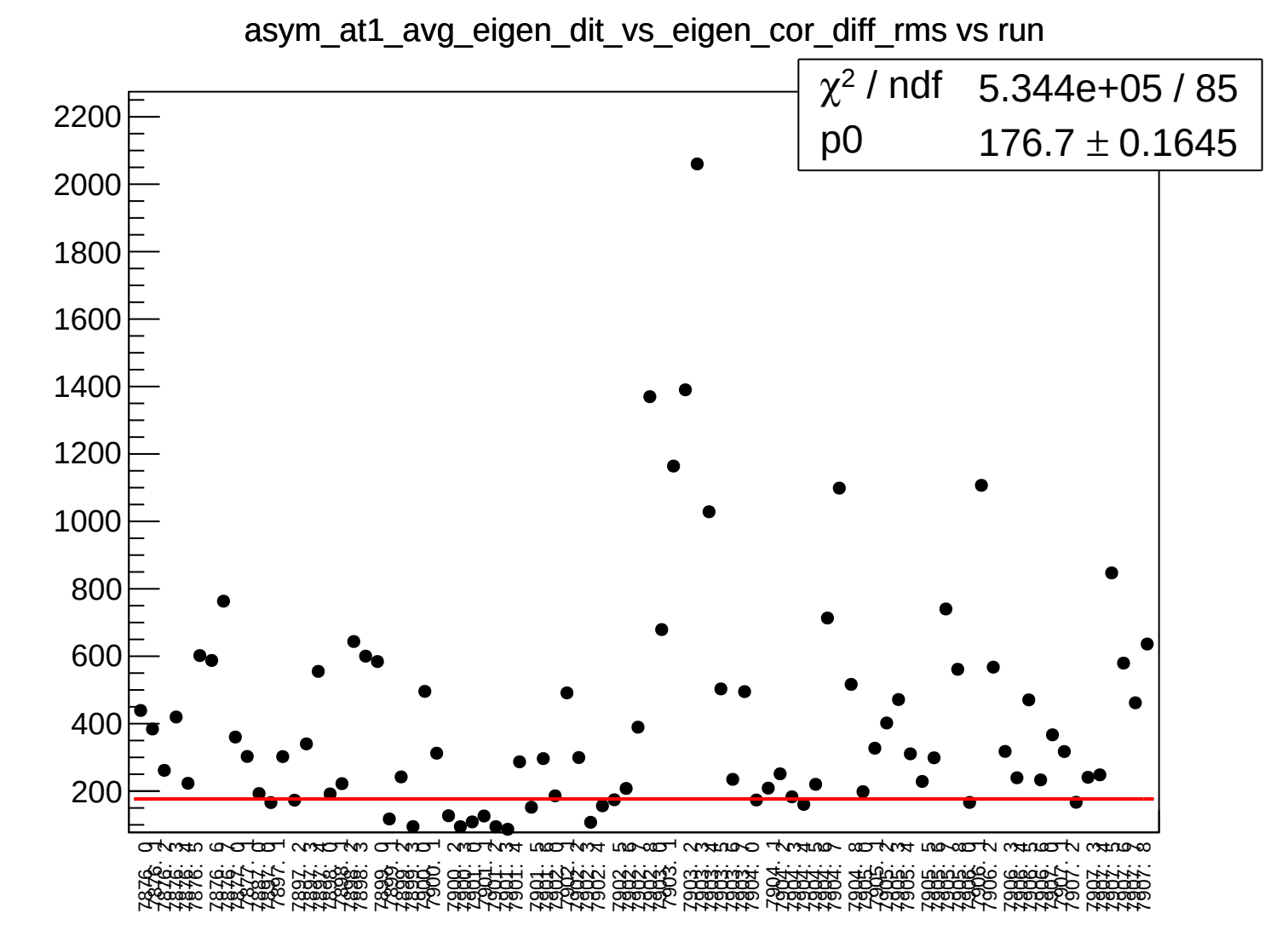

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9027 / 85
p0 0.003236 ± 2.498e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

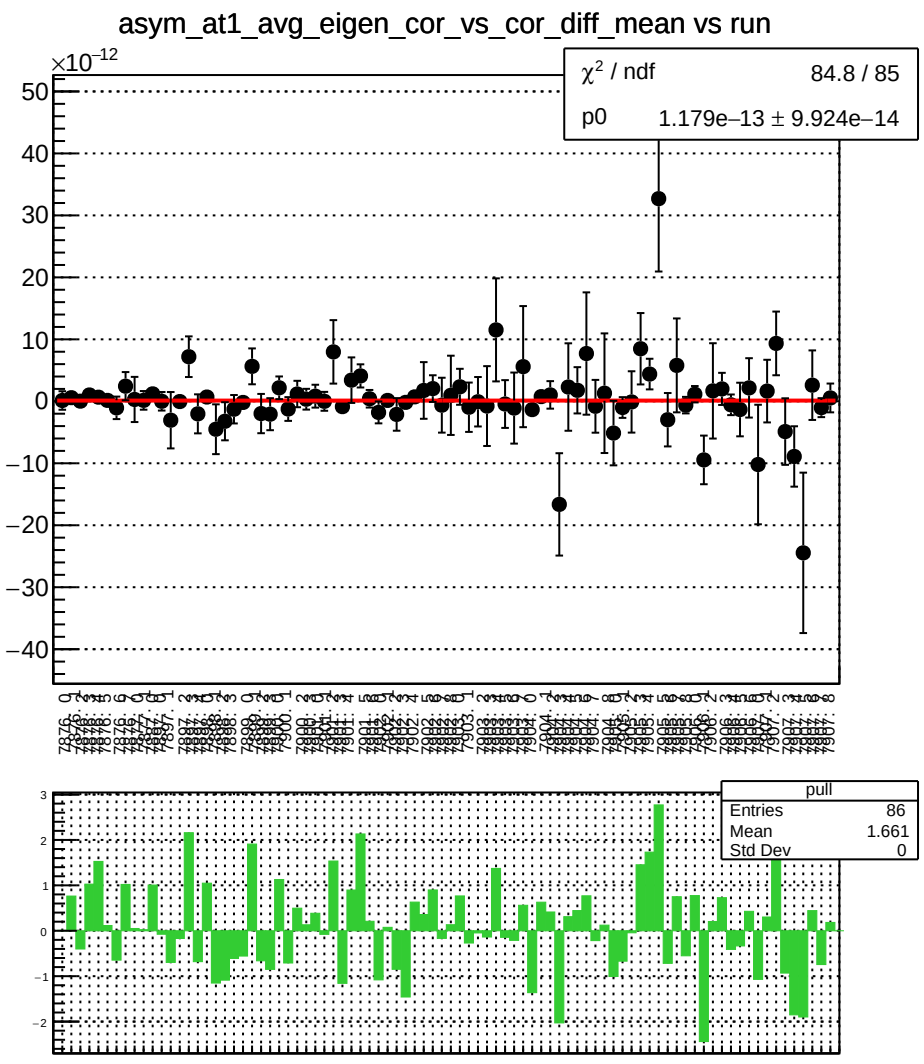

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.6 / 85
p0 −0.1723 ± 0.2327
pull
Entries 86
Mean 49.05
Std Dev 33.31

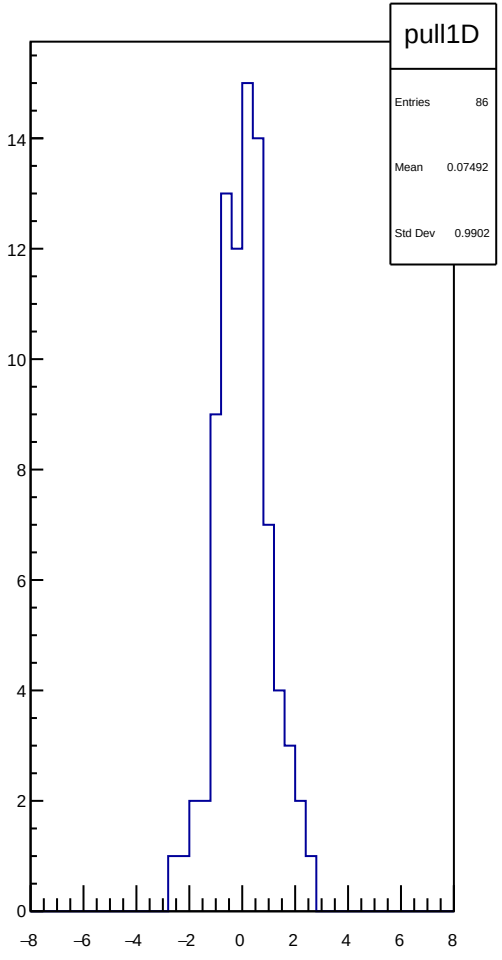

pull1D
Entries 86
Mean −0.08266
Std Dev 0.9463

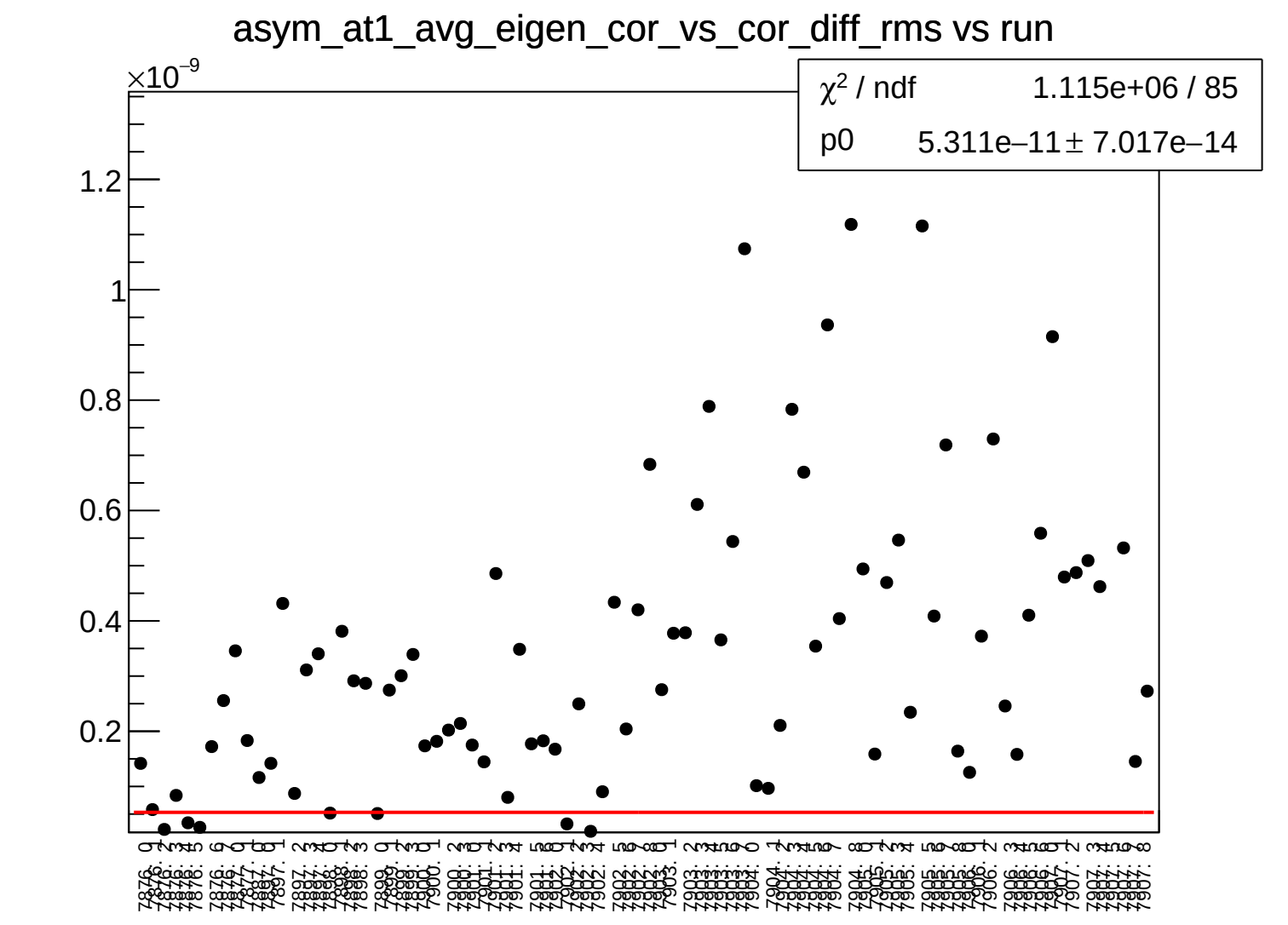

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.344e+05 / 85
p0 176.7 ± 0.1645
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

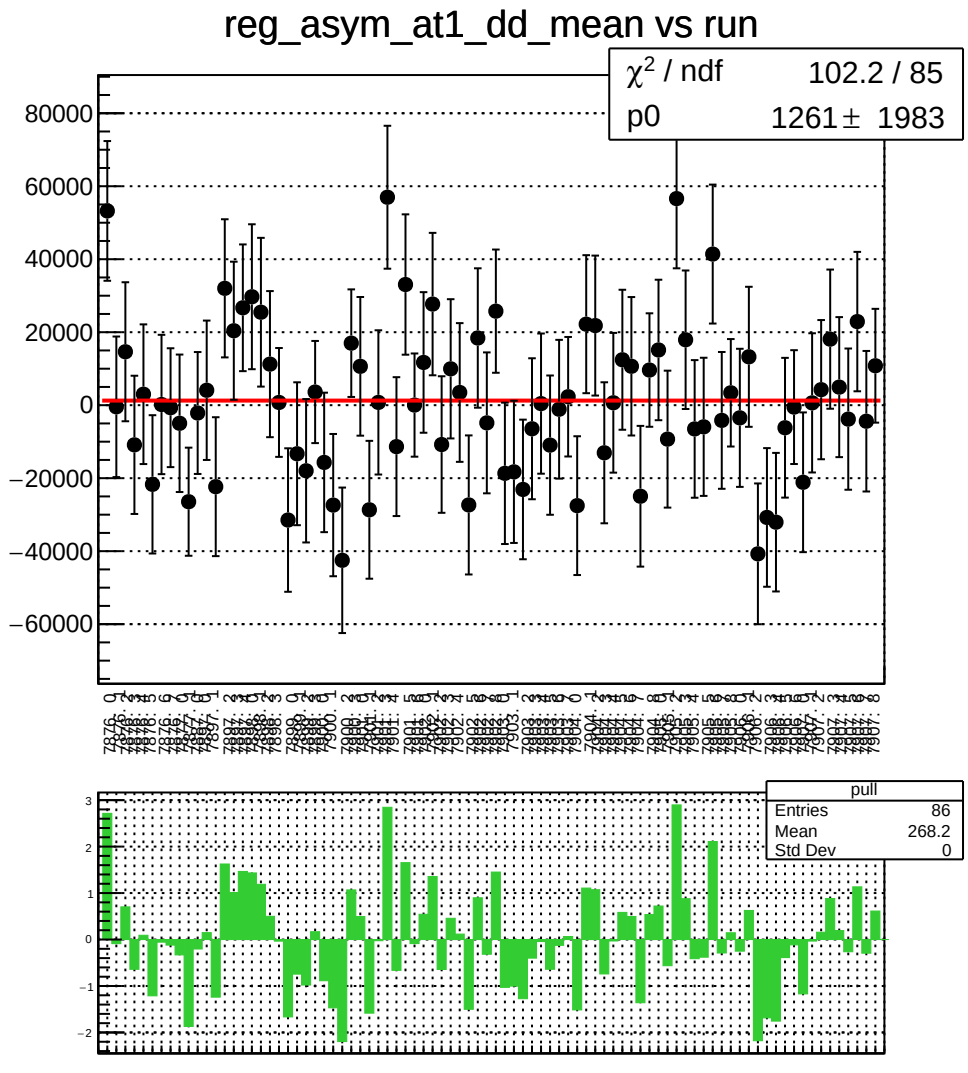

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.6 / 85
p0 −0.1723 ± 0.2327
pull
Entries 86
Mean 49.05
Std Dev 33.31
pull1D
Entries 86
Mean −0.08266
Std Dev 0.9463

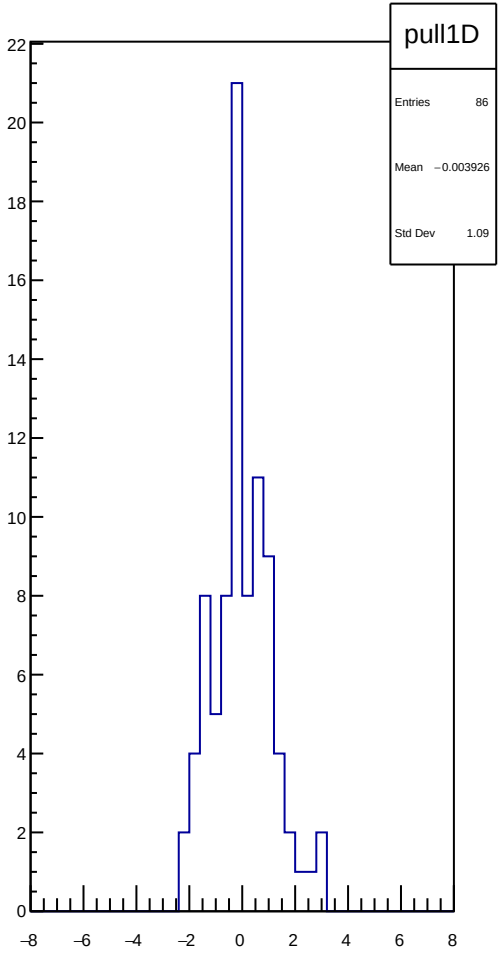

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.344e+05 / 85
p0 176.7 ± 0.1645
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

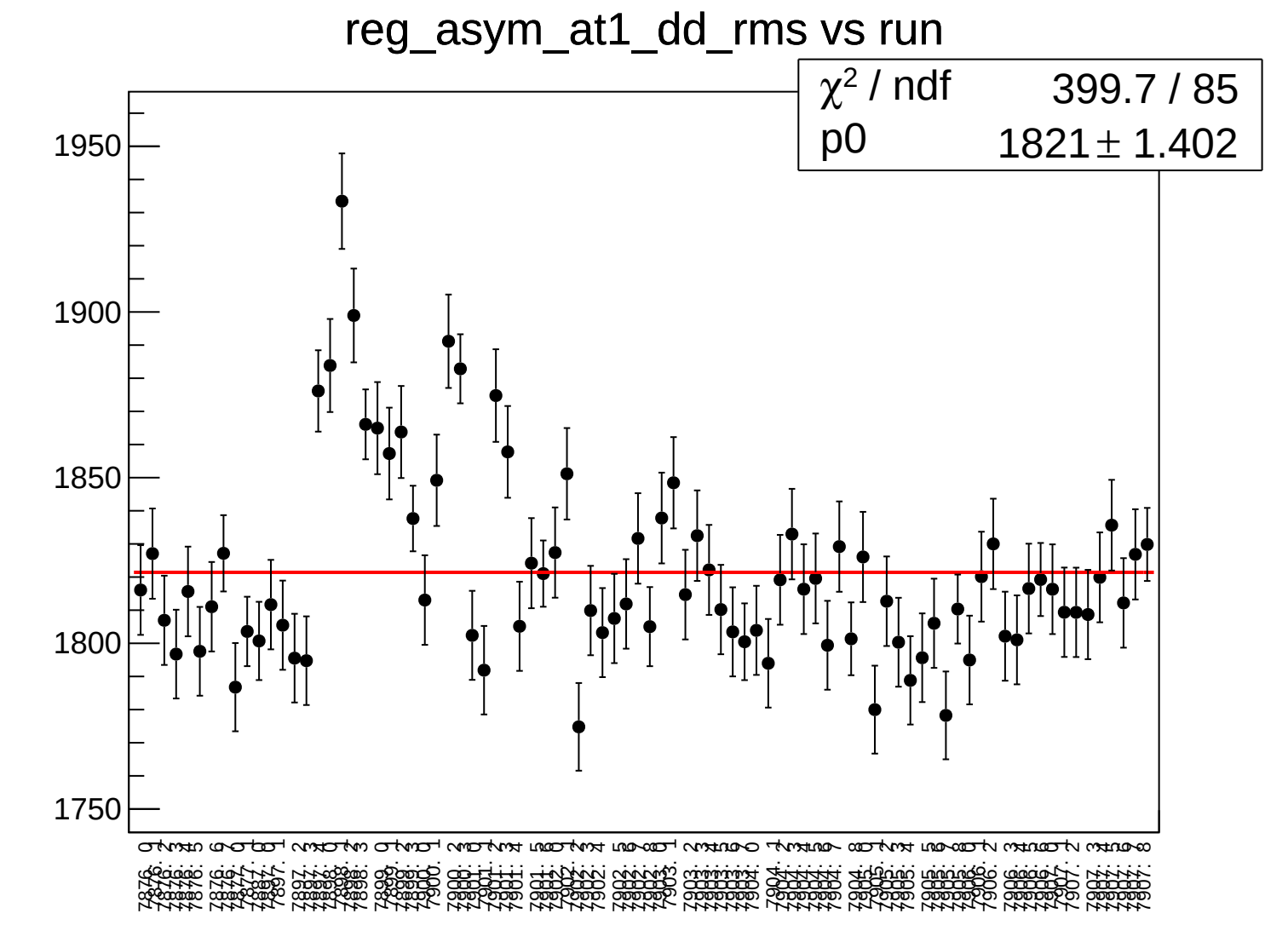

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.8 / 85
p0 1.179e−13 ± 9.924e−14
pull
Entries 86
Mean 1.661
Std Dev 0

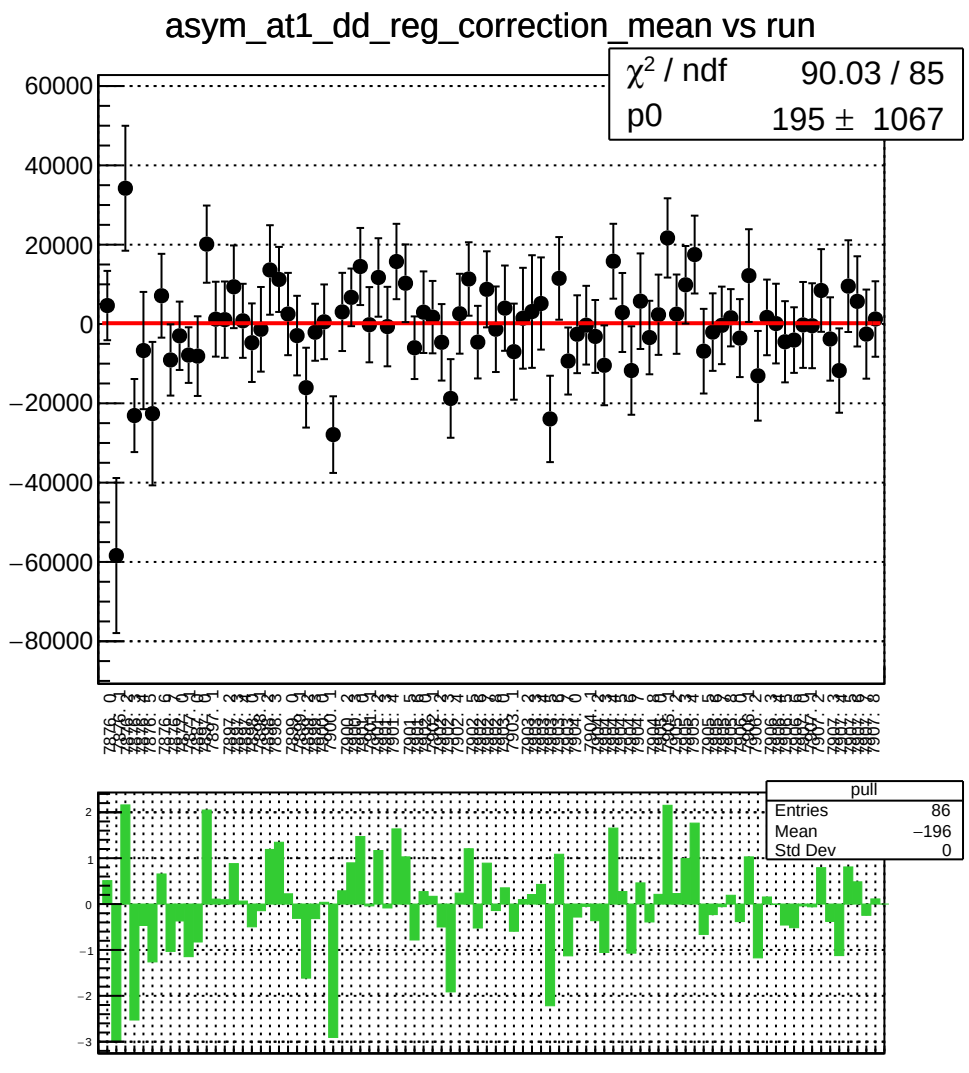

pull1D
Entries 86
Mean 0.07492
Std Dev 0.9902

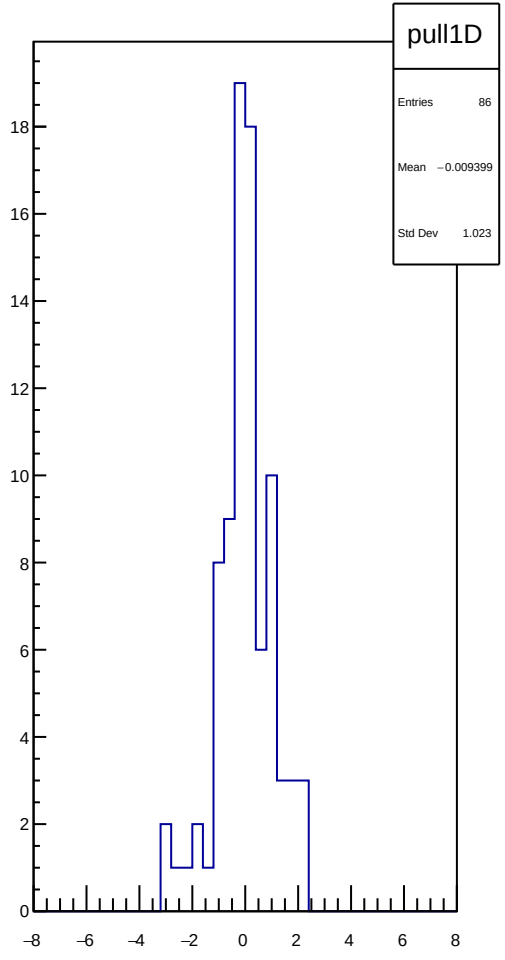

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.115e+06 / 85
p0 5.311e−11 ± 7.017e−14
1.2
1
0.8
0.6
0.4
0.2

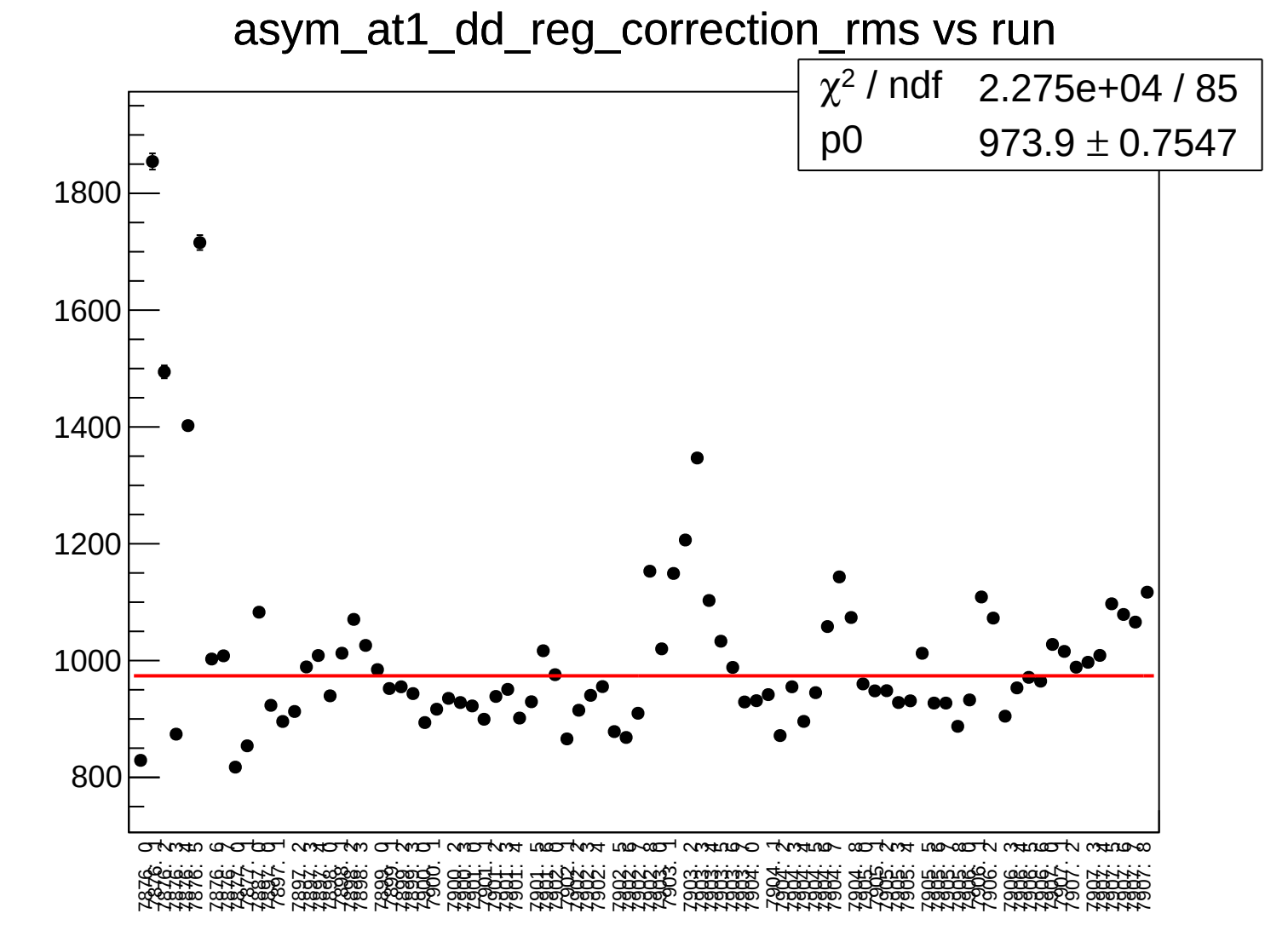

reg_asym_at1_dd_mean vs run
χ² / ndf 102.2 / 85
p0 1261 ± 1983
pull
Entries 86
Mean 268.2
Std Dev 0

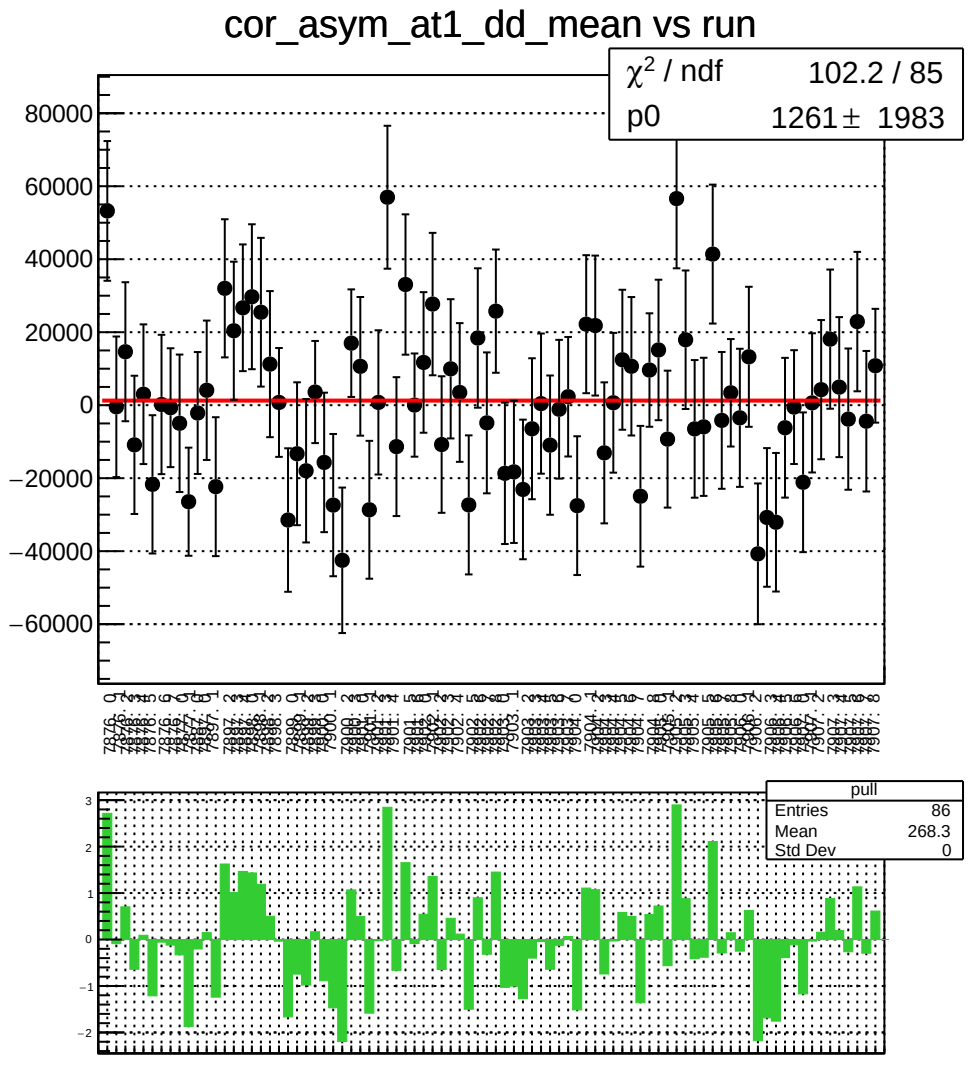

pull1D
Entries 86
Mean −0.003926
Std Dev 1.09

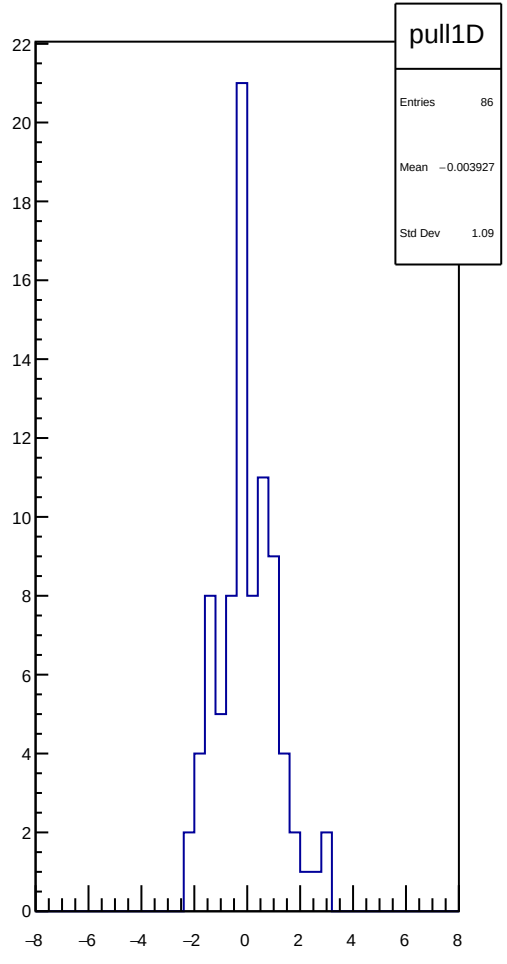

reg_asym_at1_dd_rms vs run
χ^2 / ndf 399.7 / 85
p0 1821 ± 1.402
1950
1900
1850
1800
1750

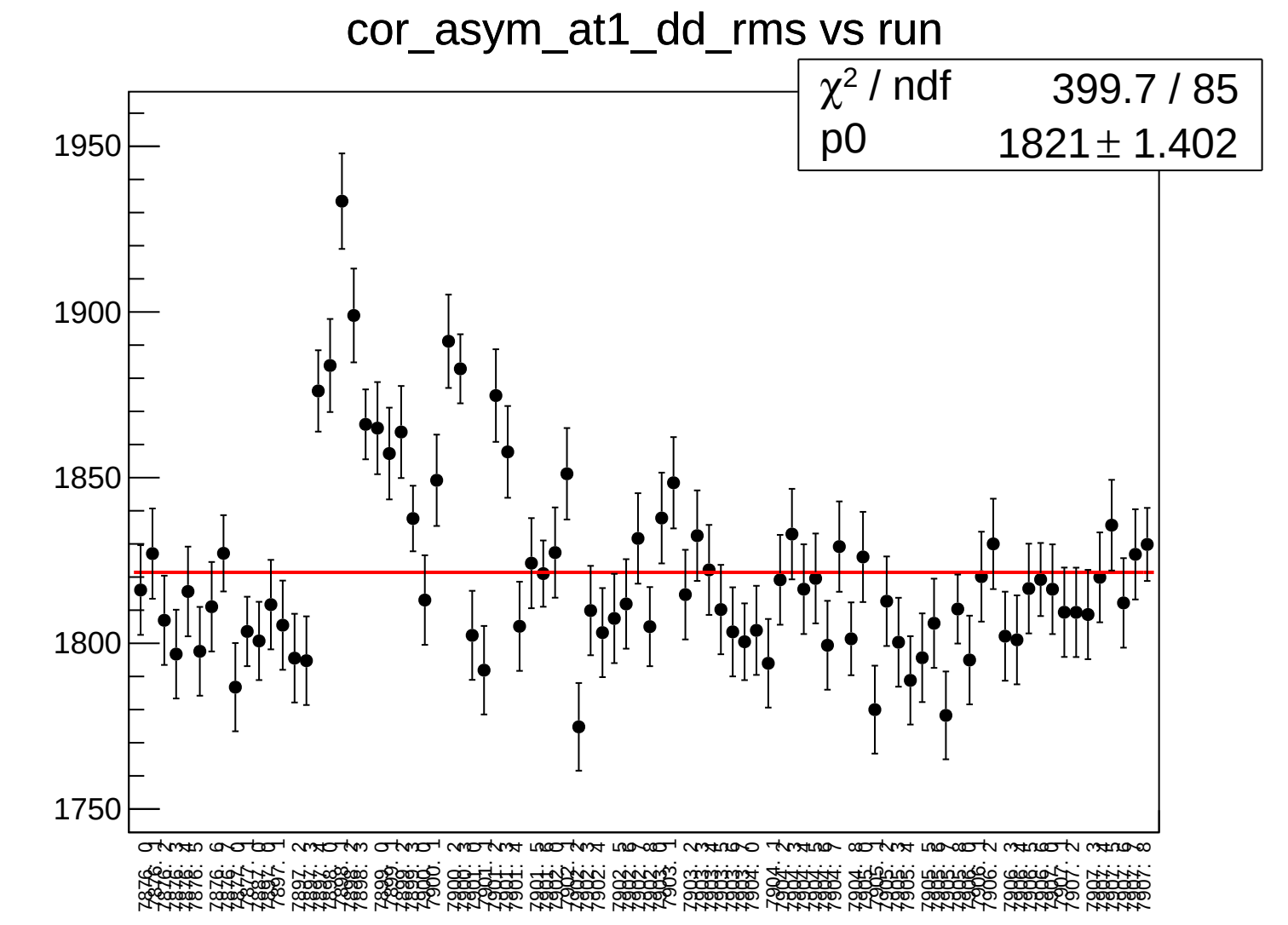

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 90.03 / 85
p0 195 ± 1067
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −196
Std Dev 0
2
1
0
−1
−2
−3

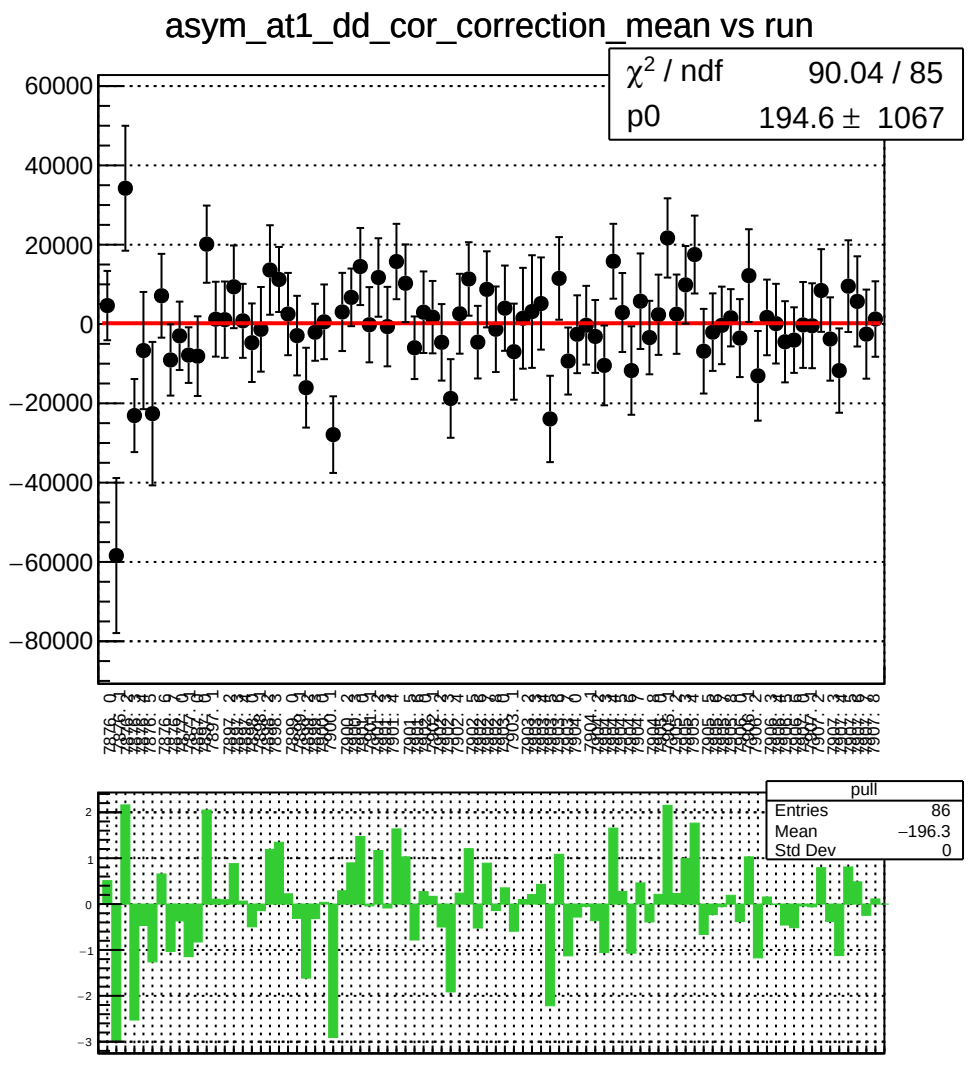

pull1D
Entries 86
Mean −0.009399
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

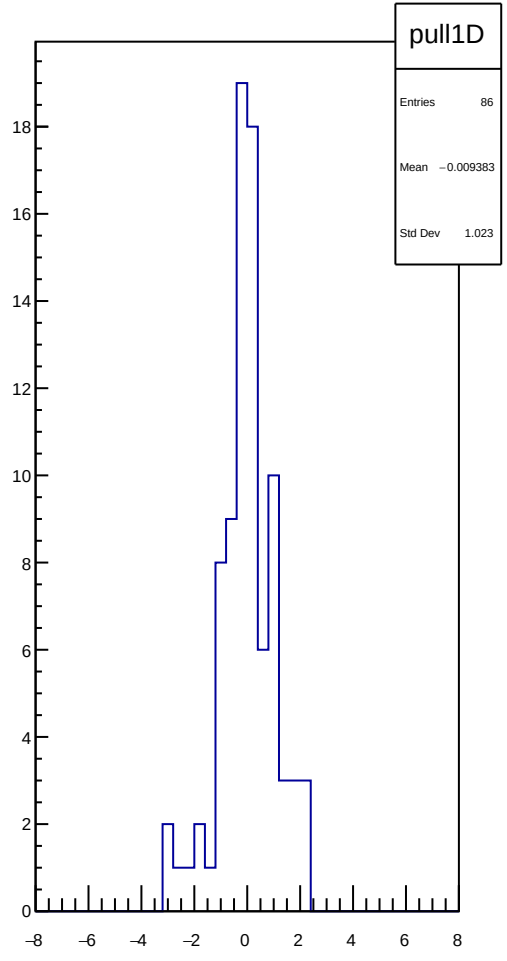

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 2.275e+04 / 85
p0 973.9 ± 0.7547
1800
1600
1400
1200
1000
800

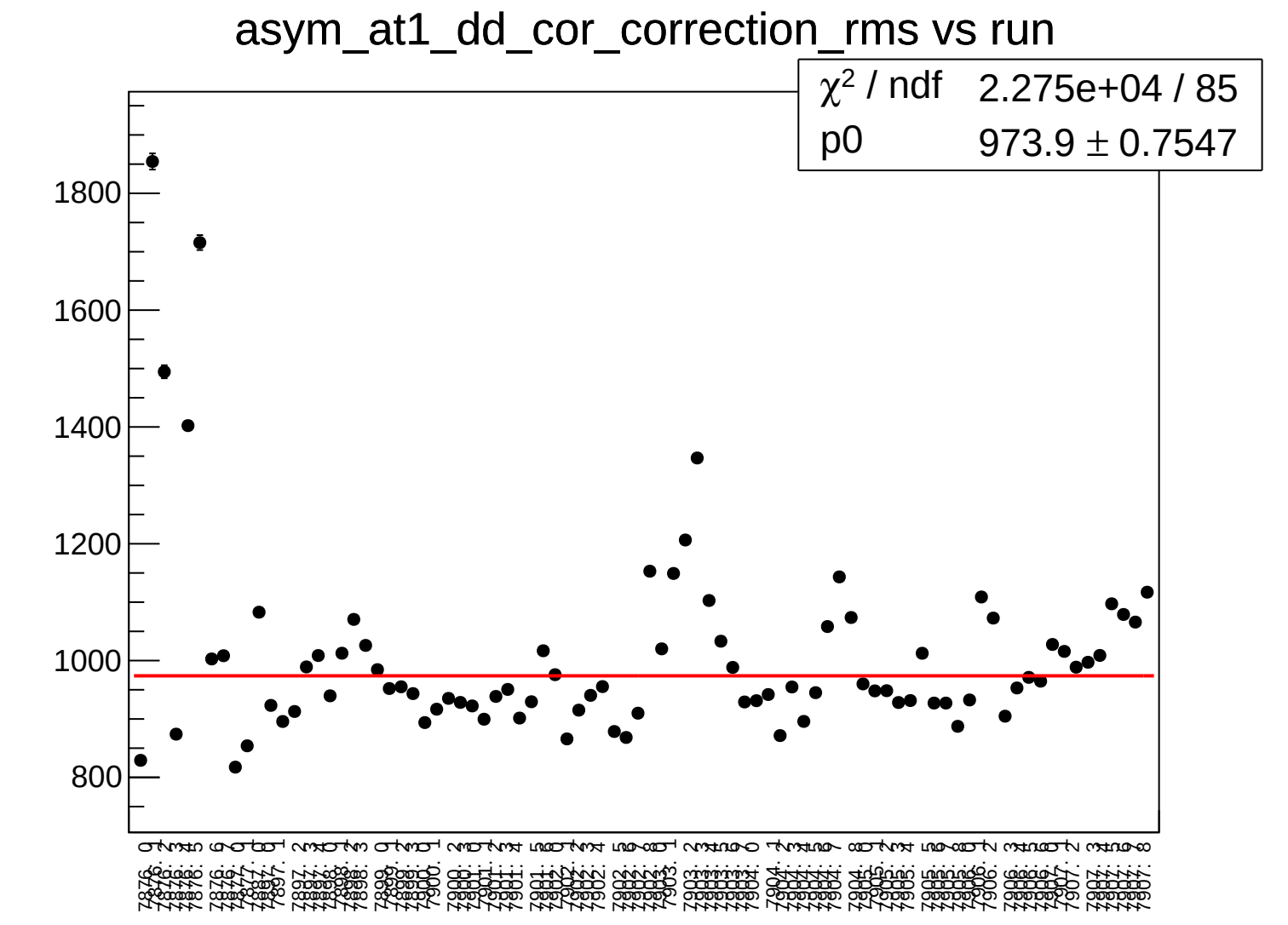

cor_asym_at1_dd_mean vs run
χ² / ndf 102.2 / 85
p0 1261 ± 1983
pull
Entries 86
Mean 268.3
Std Dev 0

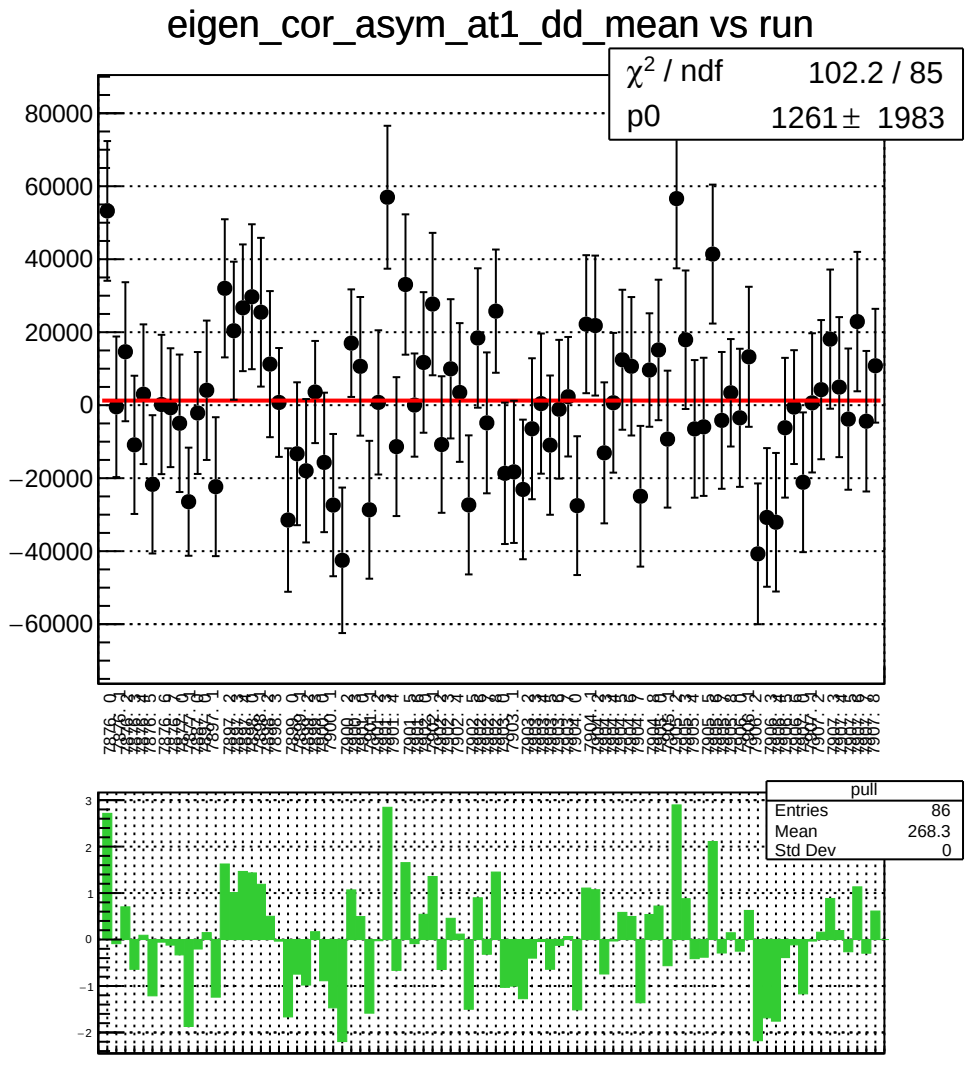

pull1D
Entries 86
Mean −0.003927
Std Dev 1.09

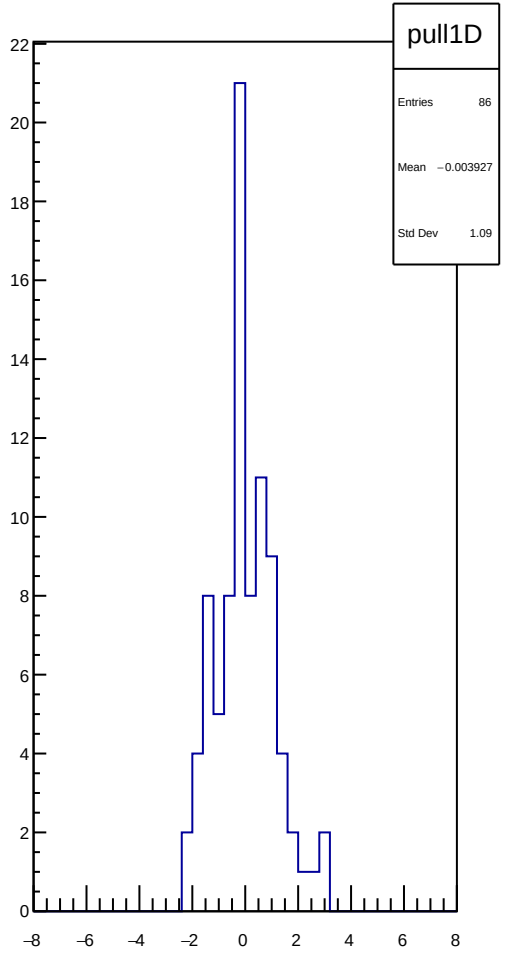

cor_asym_at1_dd_rms vs run
χ² / ndf 399.7 / 85
p0 1821 ± 1.402
1950
1900
1850
1800
1750

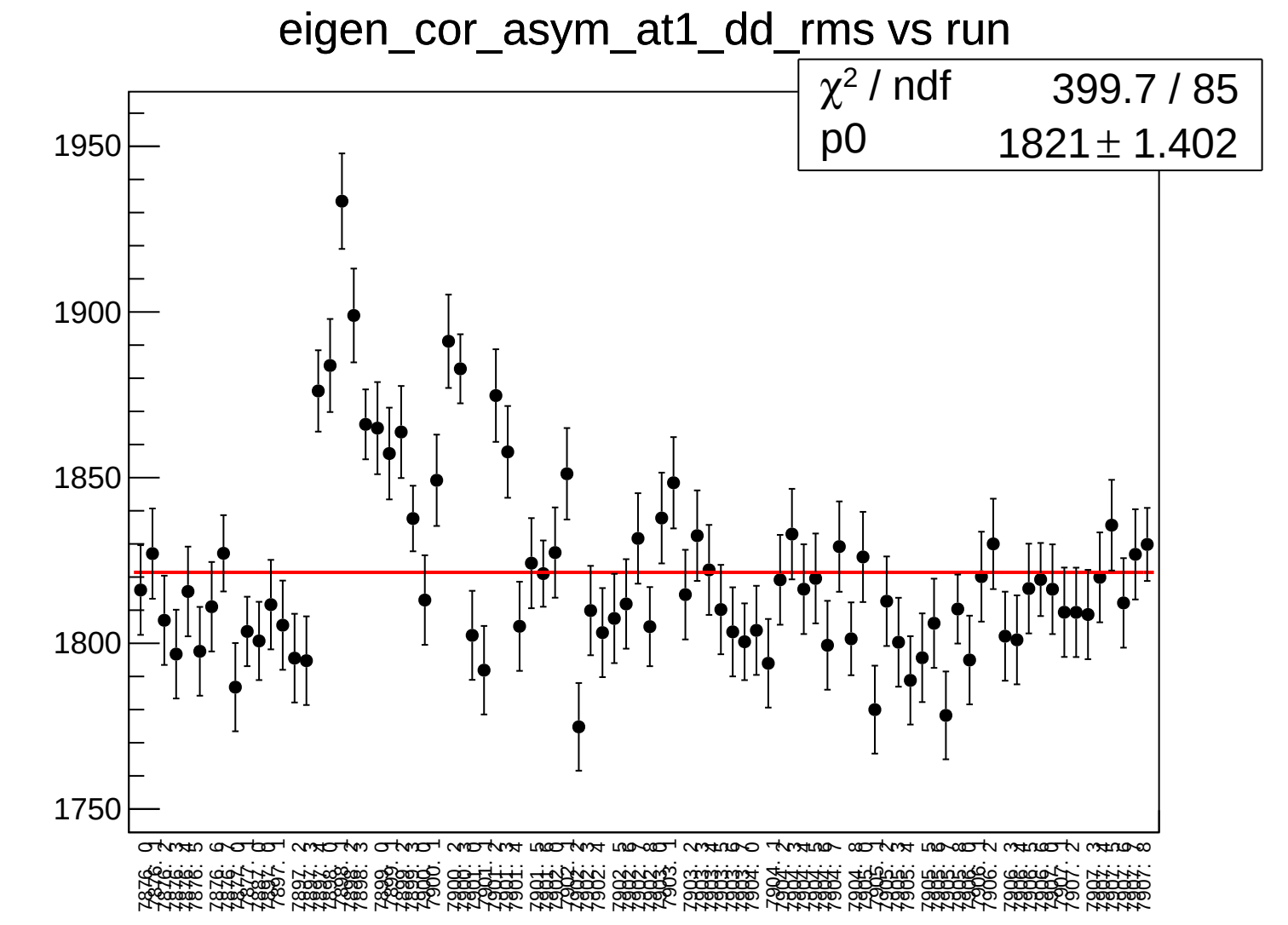

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 90.04 / 85
p0 194.6 ± 1067
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −196.3
Std Dev 0
2
1
0
−1
−2
−3

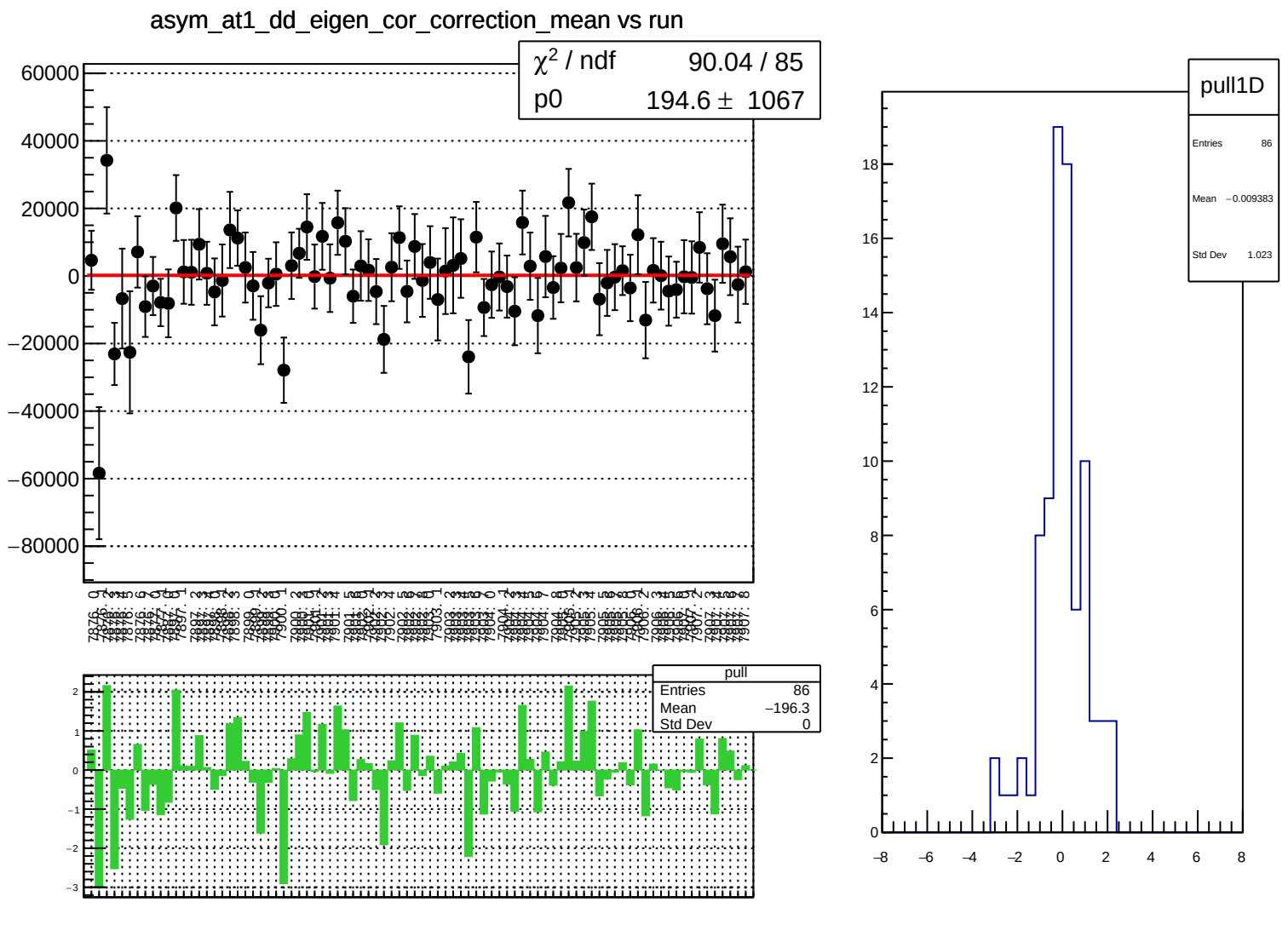

pull1D
Entries 86
Mean −0.009383
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

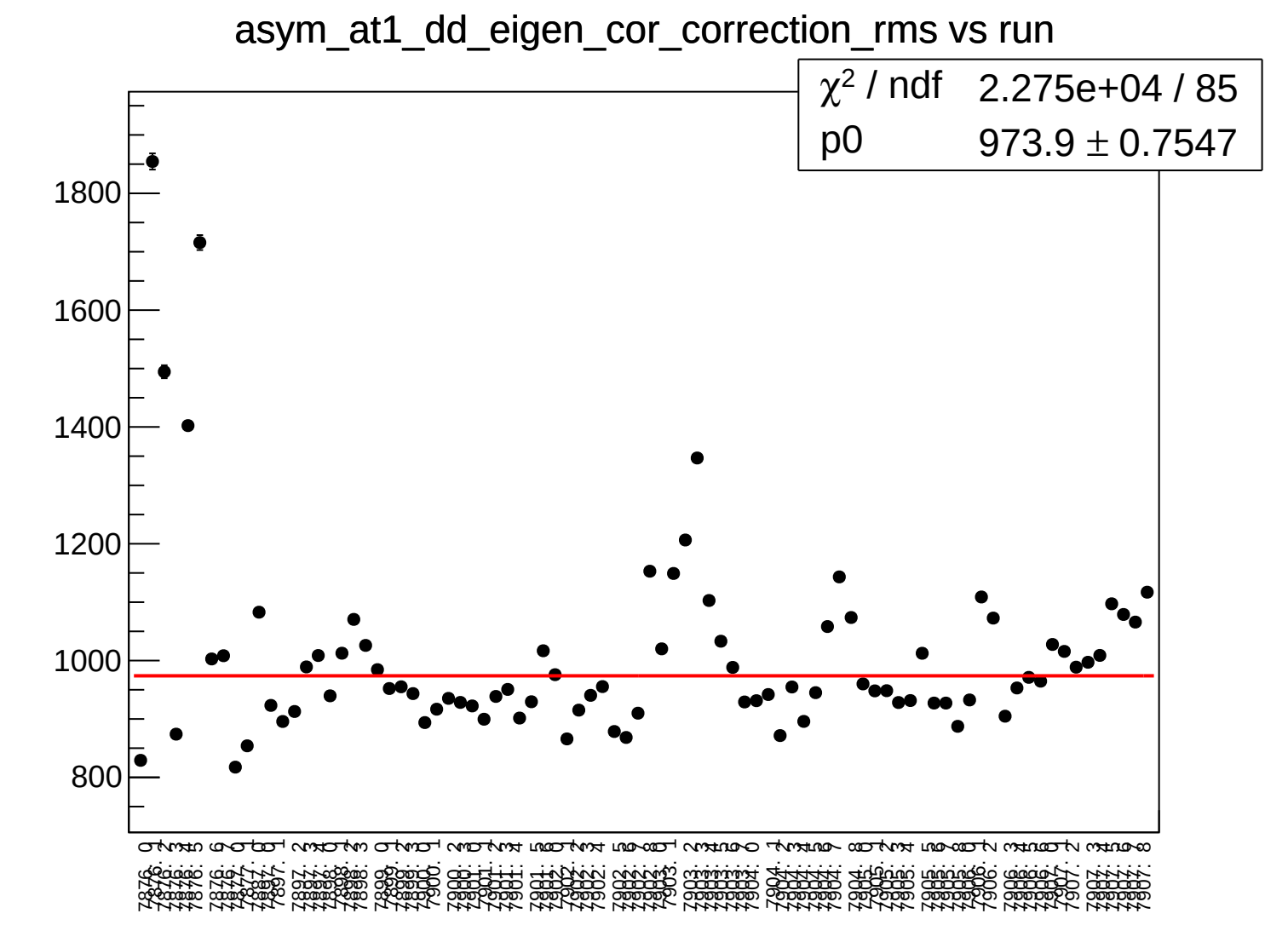

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 2.275e+04 / 85
p0 973.9 ± 0.7547
1800
1600
1400
1200
1000
800

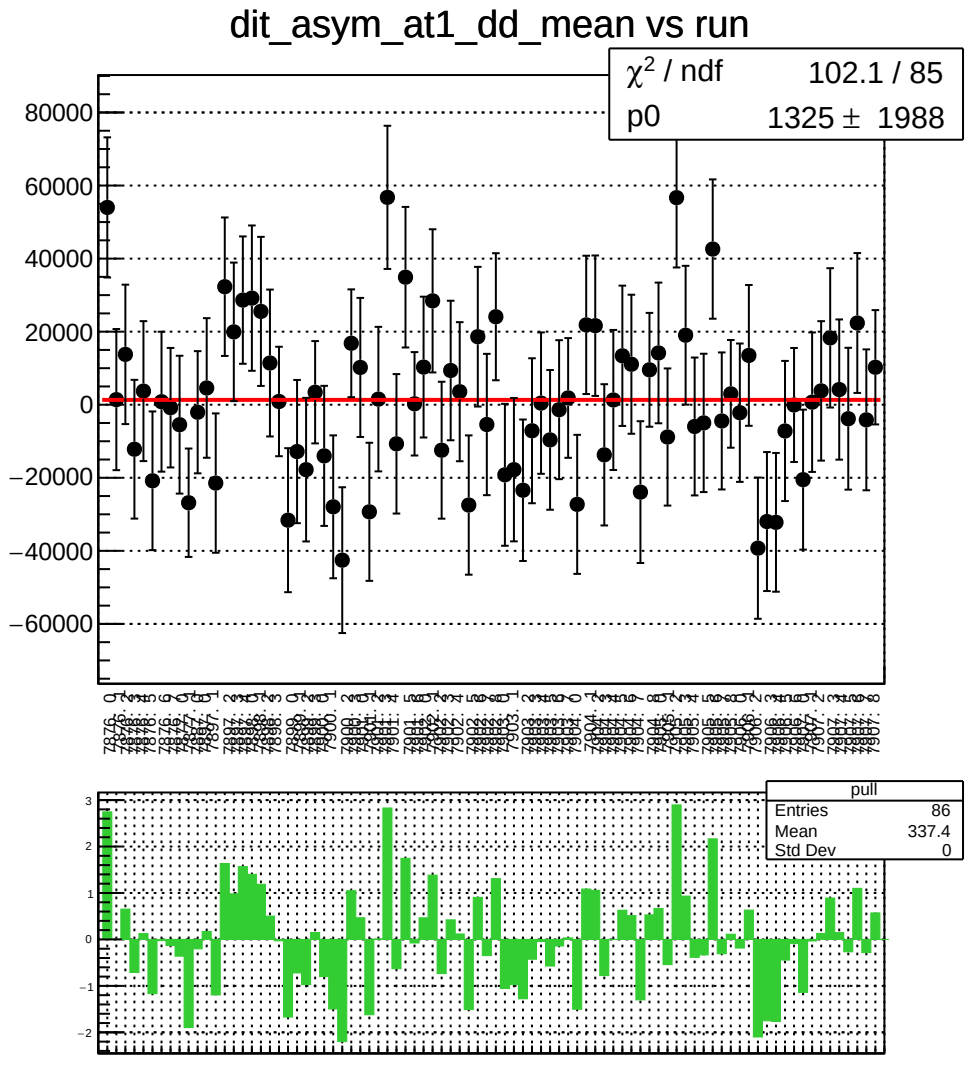

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 102.2 / 85
p0 1261 ± 1983
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 268.3
Std Dev 0
3
2
1
0
−1
−2

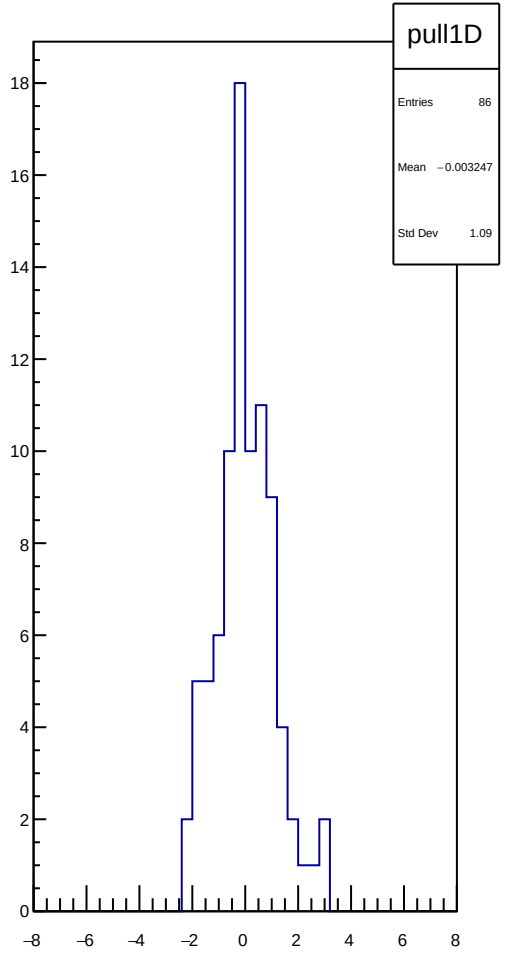

pull1D
Entries 86
Mean −0.003927
Std Dev 1.09
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

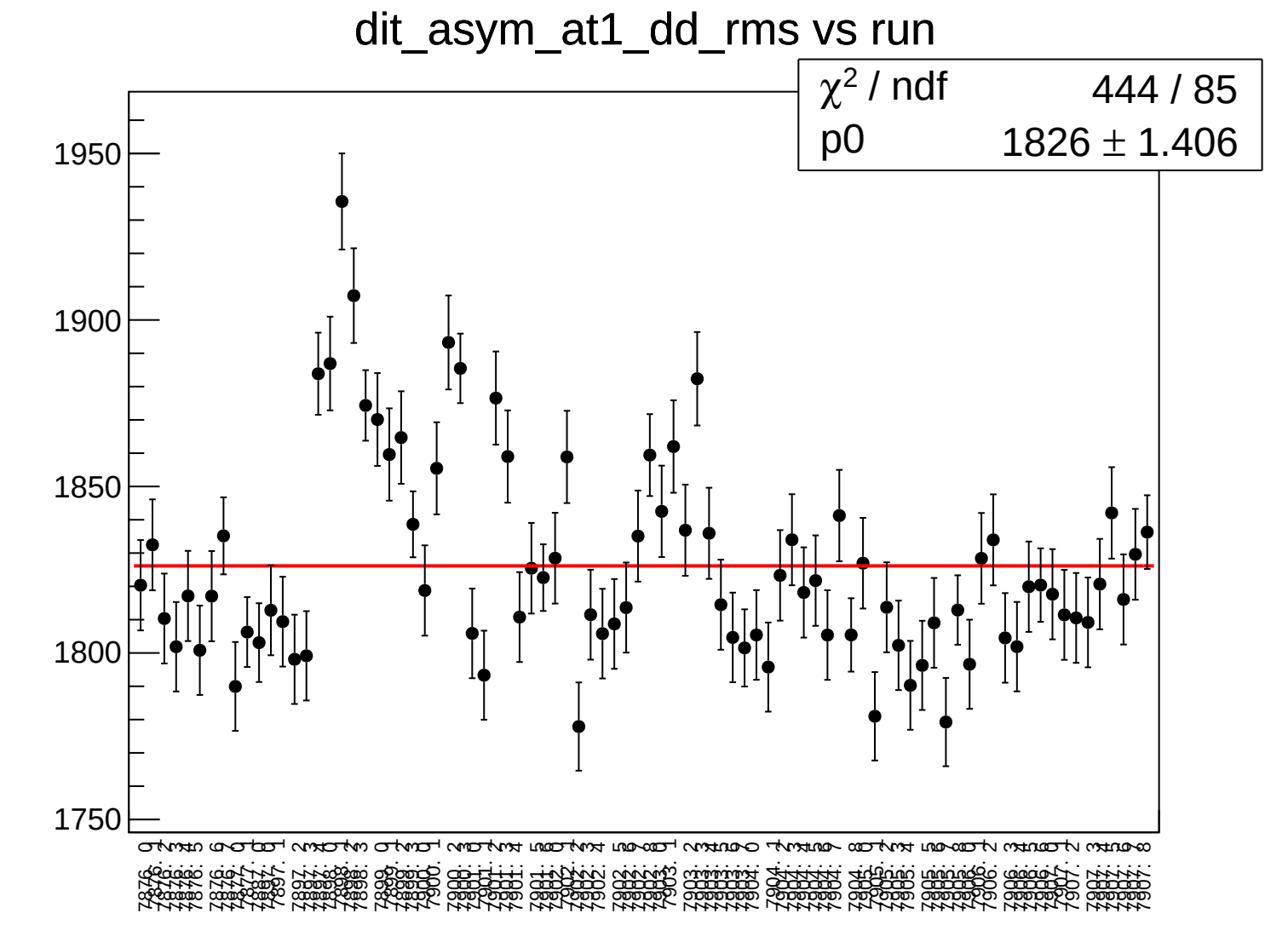

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 399.7 / 85
p0 1821 ± 1.402
1950
1900
1850
1800
1750

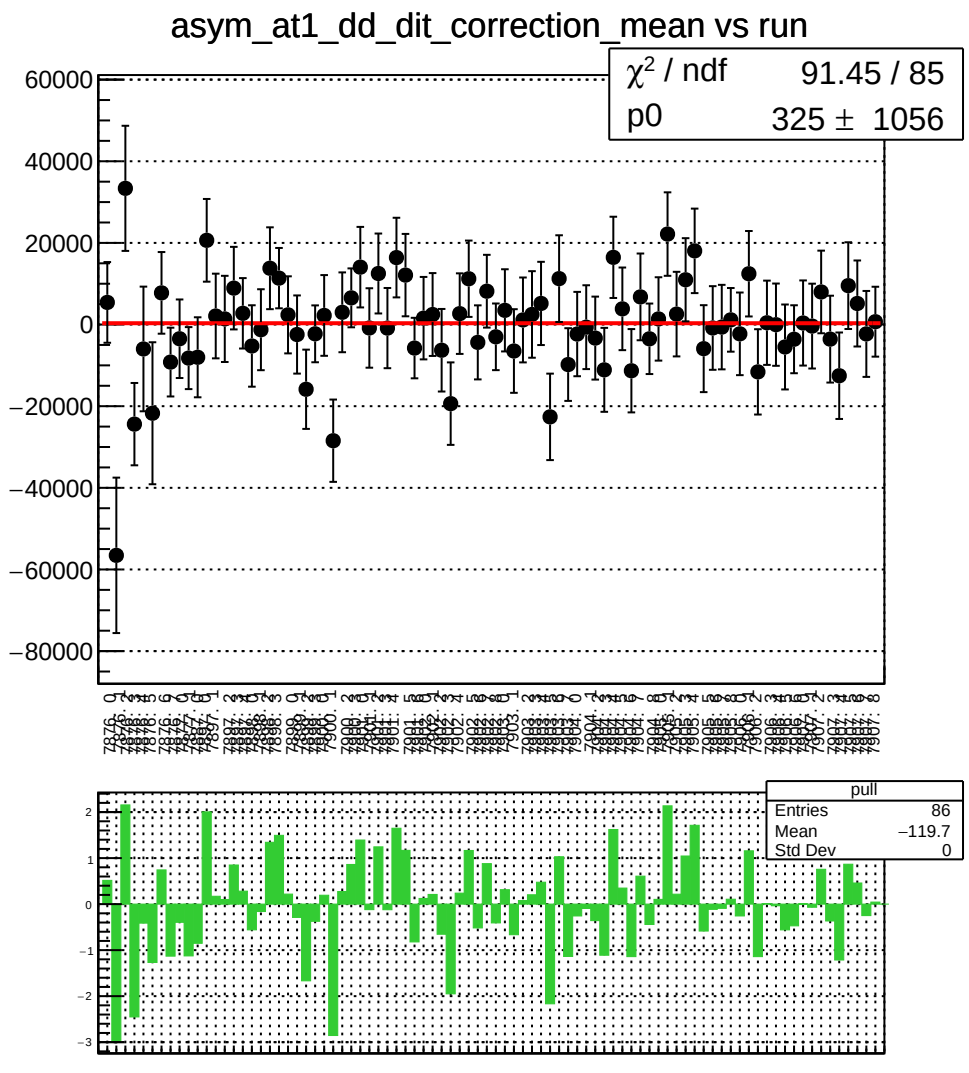

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.04 / 85
p0 194.6 ± 1067
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −196.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.009383
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

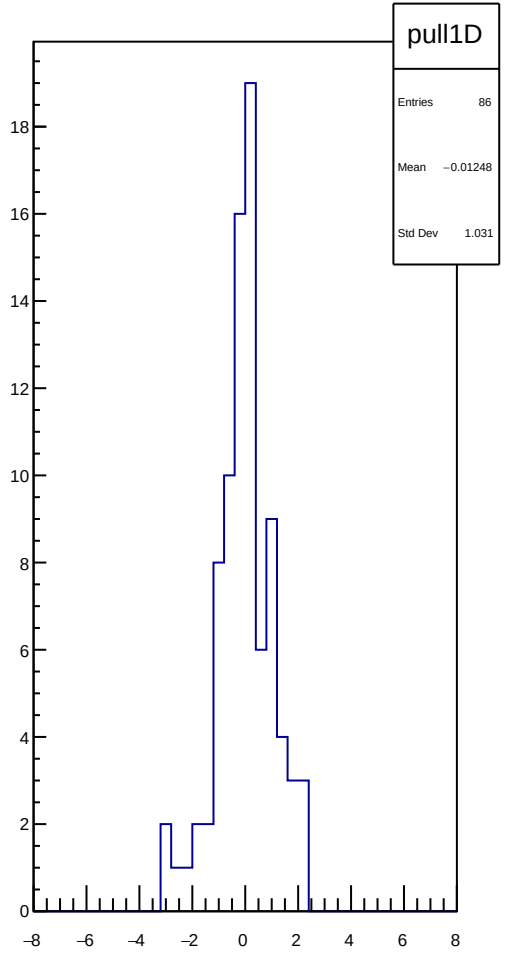

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.275e+04 / 85
p0 973.9 ± 0.7547
1800
1600
1400
1200
1000
800

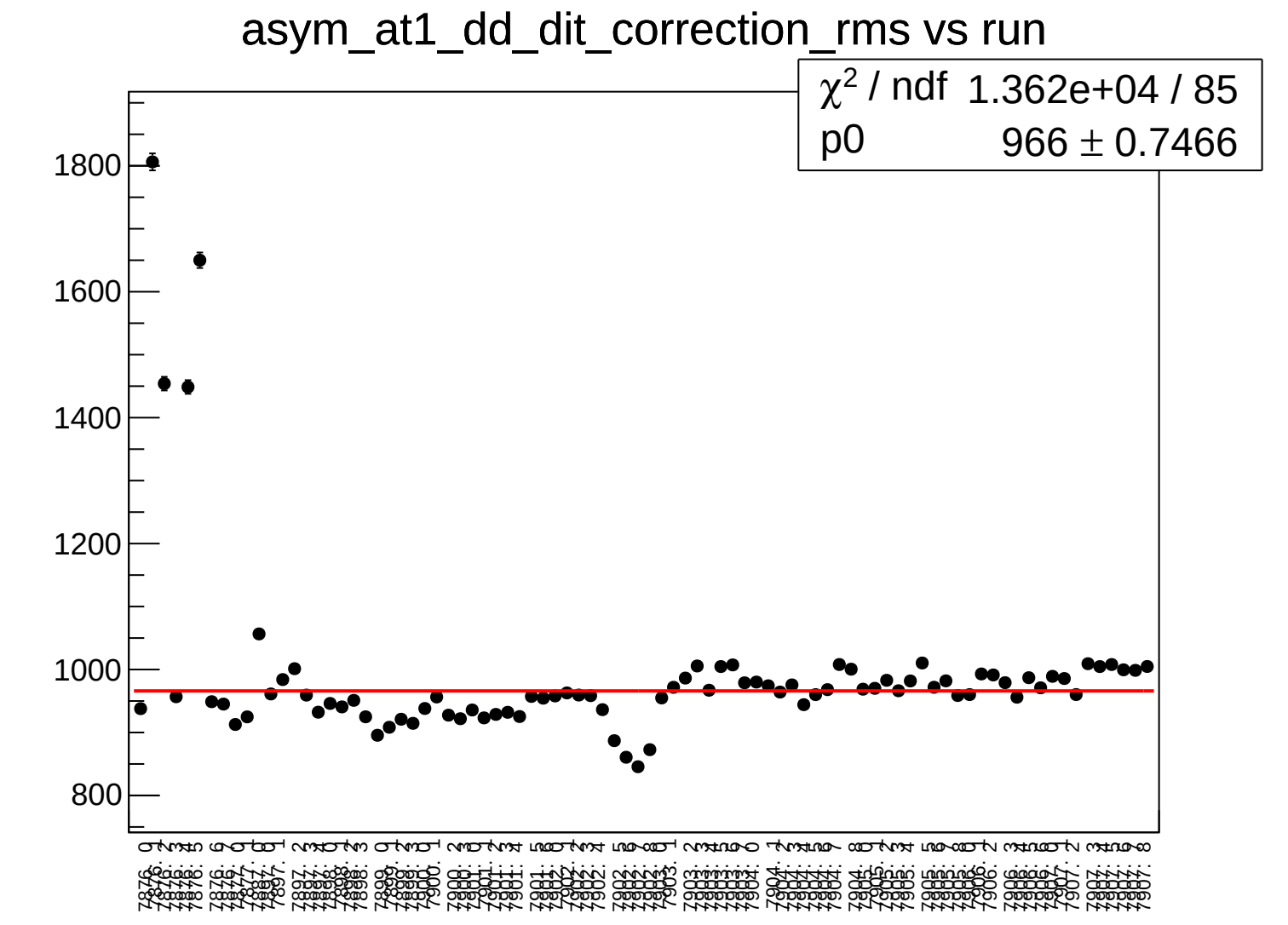

dit_asym_at1_dd_mean vs run
χ² / ndf 102.1 / 85
p0 1325 ± 1988
pull
Entries 86
Mean 337.4
Std Dev 0

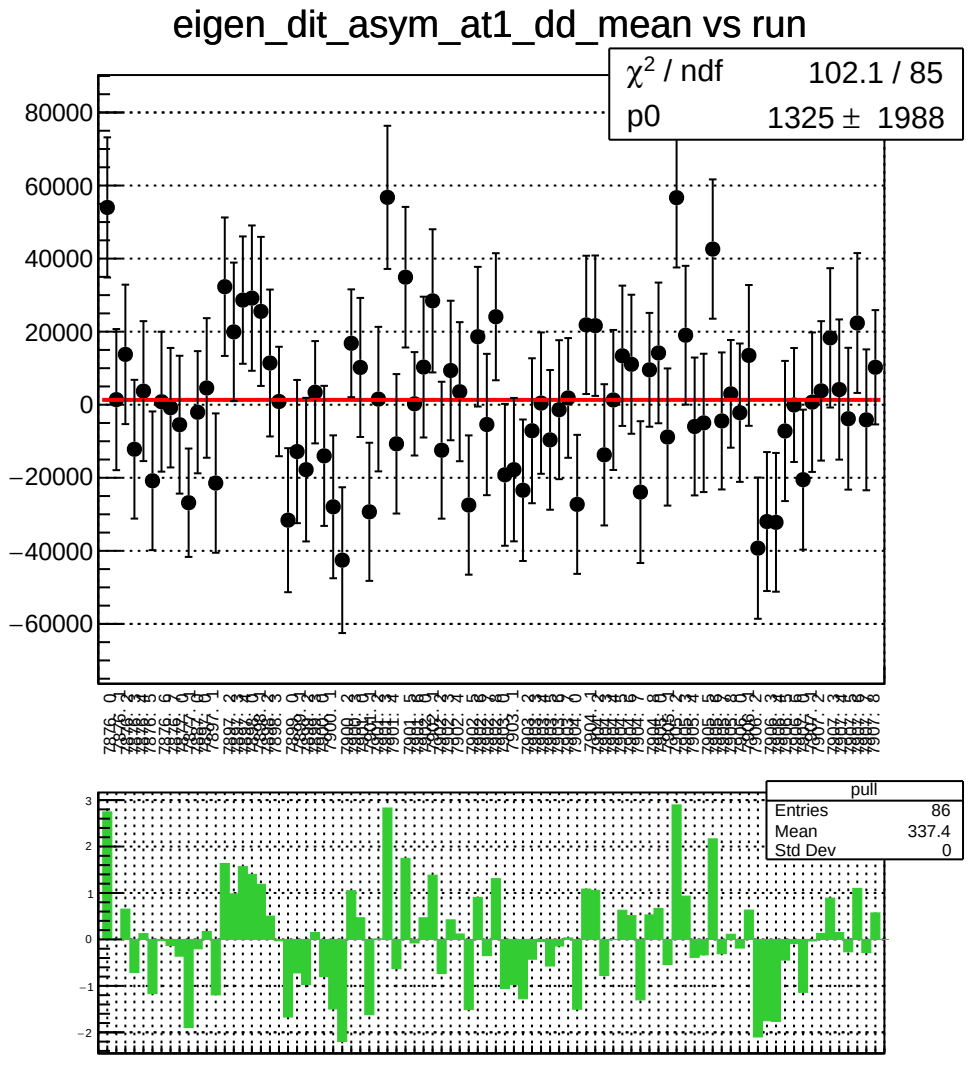

pull1D
Entries 86
Mean −0.003247
Std Dev 1.09

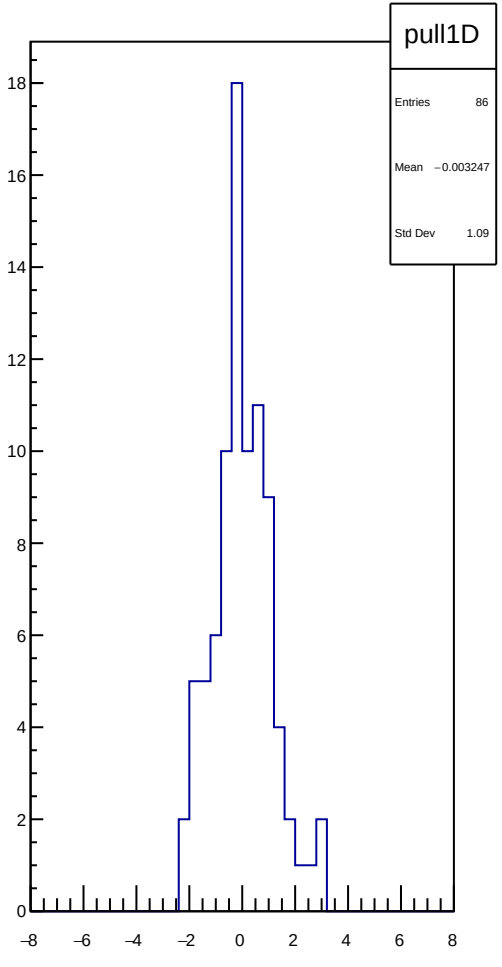

dit_asym_at1_dd_rms vs run
χ² / ndf 444 / 85
p0 1826 ± 1.406
1950
1900
1850
1800
1750

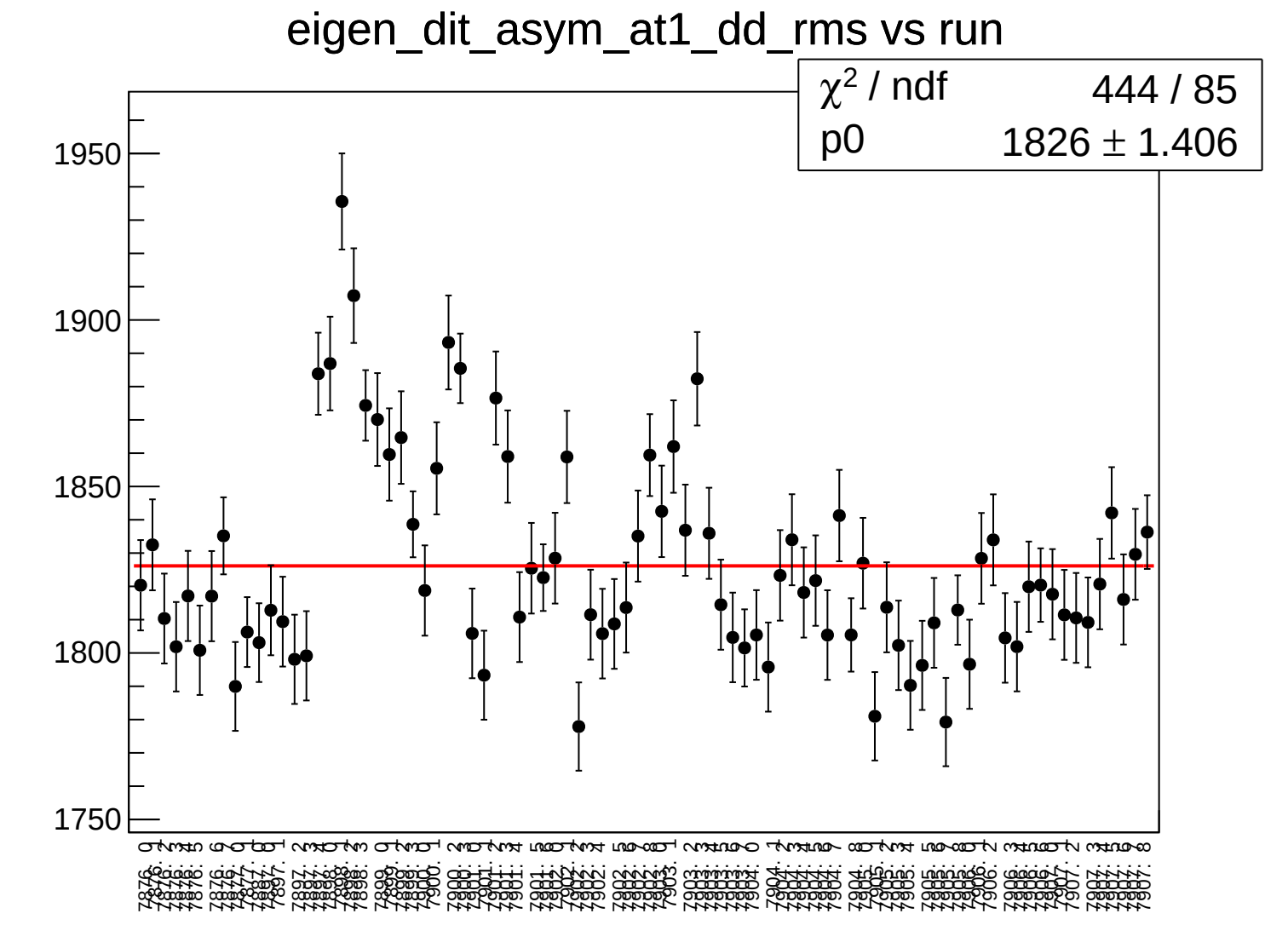

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 91.45 / 85
p0 325 ± 1056
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −119.7
Std Dev 0
2
1
0
−1
−2
−3

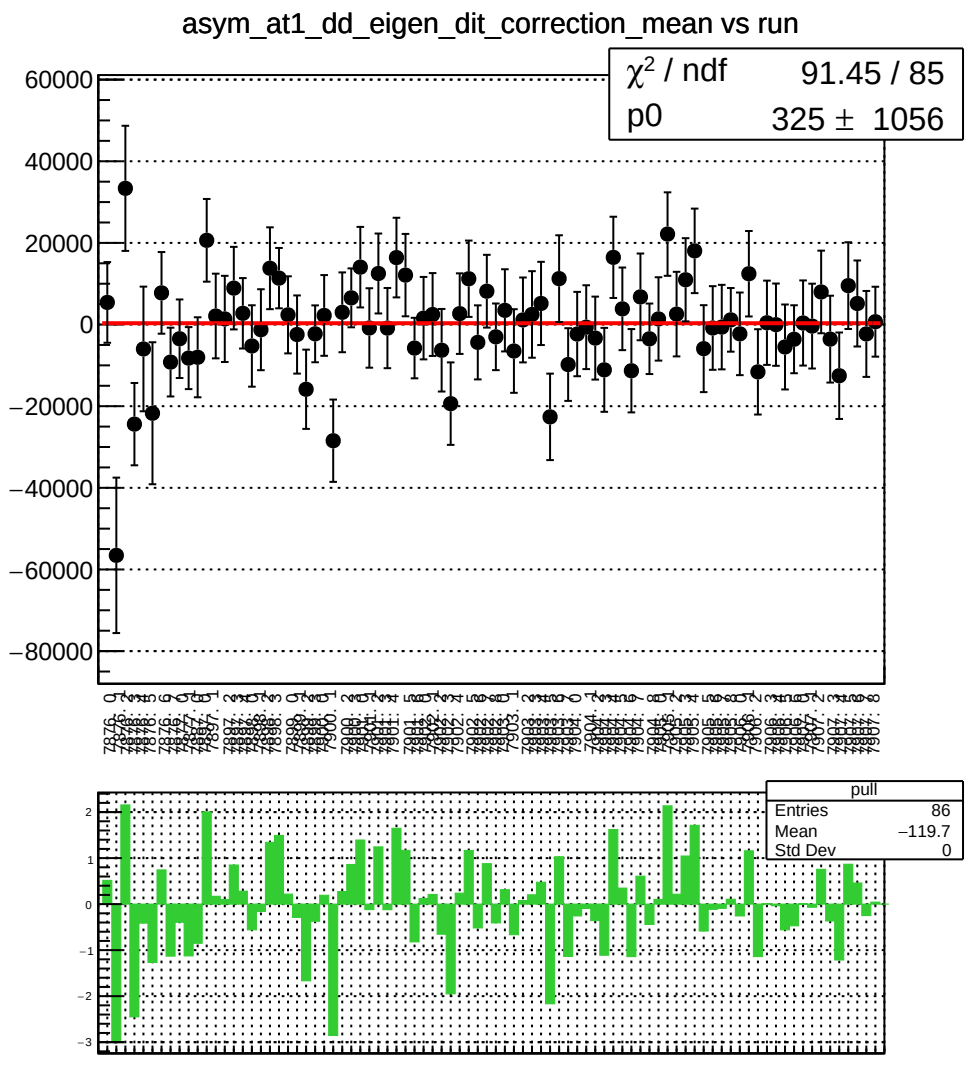

pull1D
Entries 86
Mean −0.01248
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

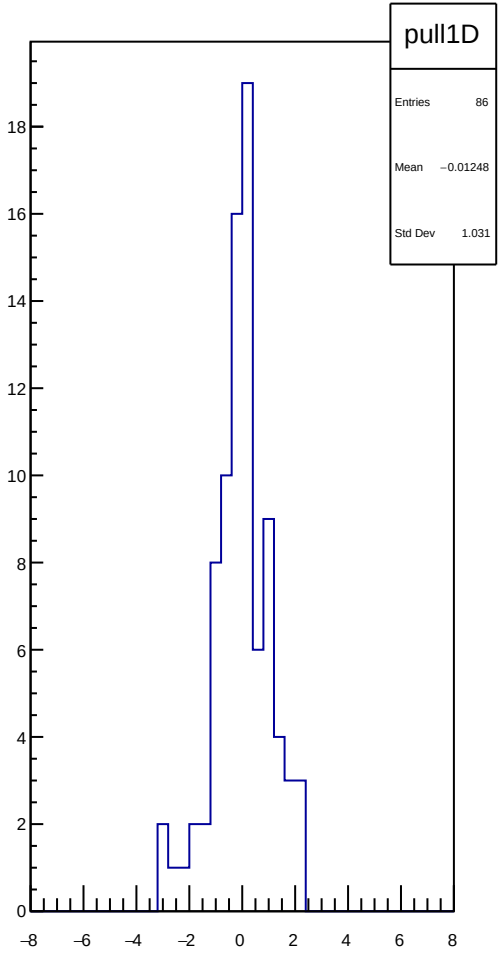

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.362e+04 / 85
p0 966 ± 0.7466
1800
1600
1400
1200
1000
800

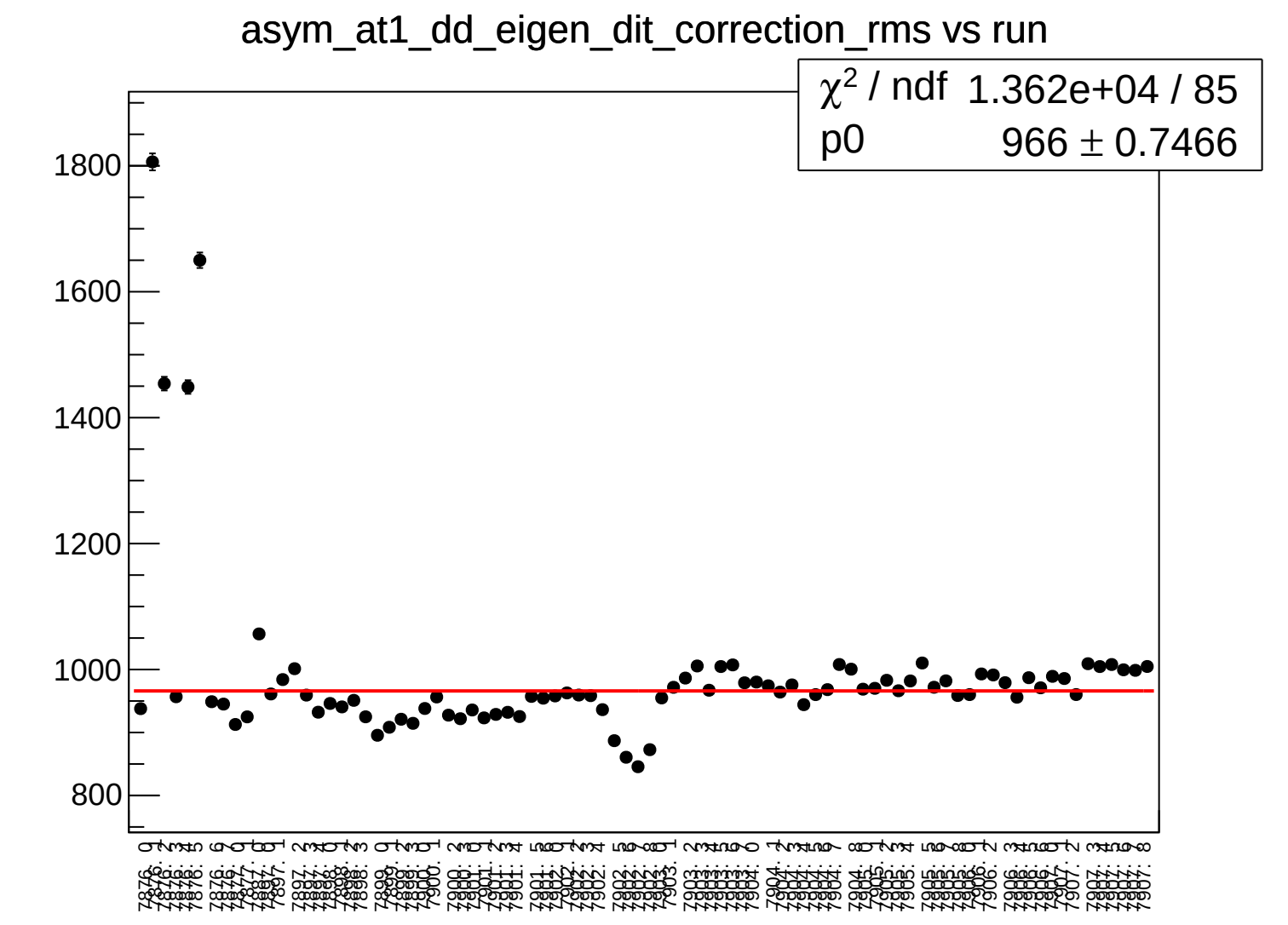

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 102.1 / 85
p0 1325 ± 1988
pull
Entries 86
Mean 337.4
Std Dev 0

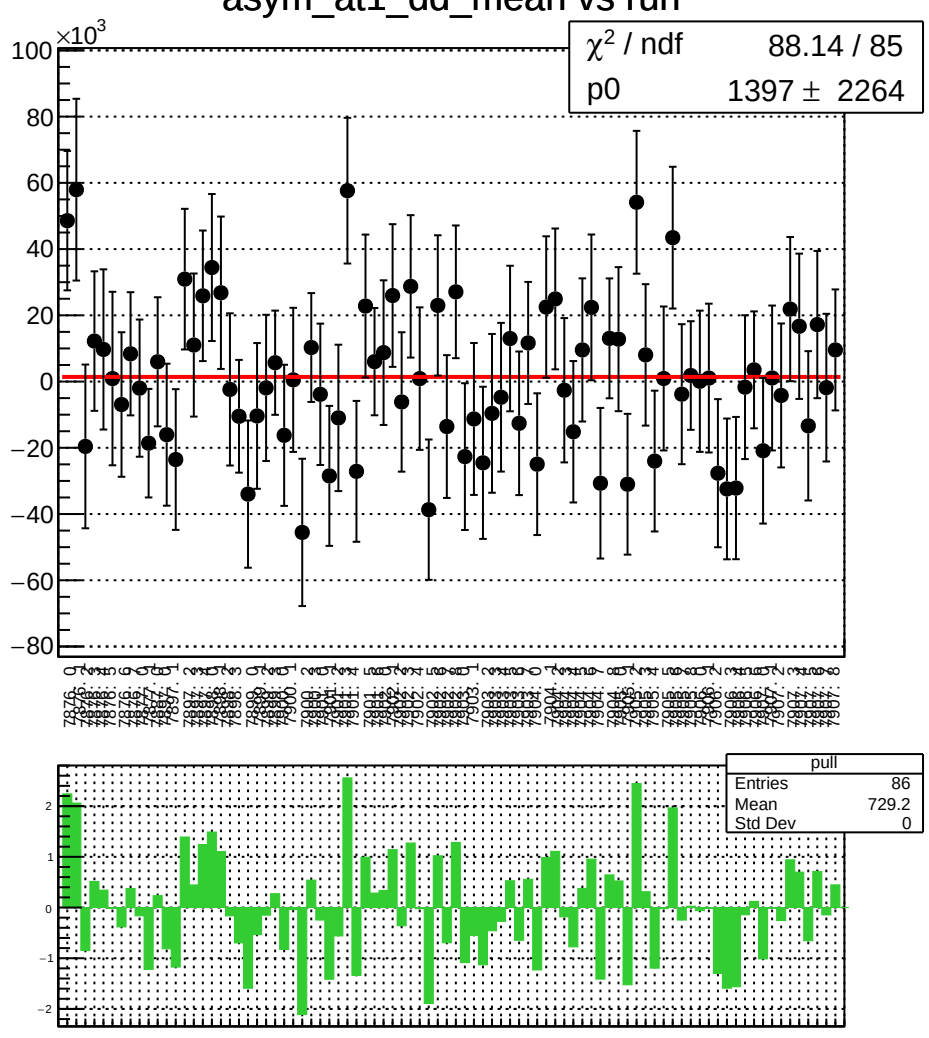

pull1D
Entries 86
Mean −0.003247
Std Dev 1.09

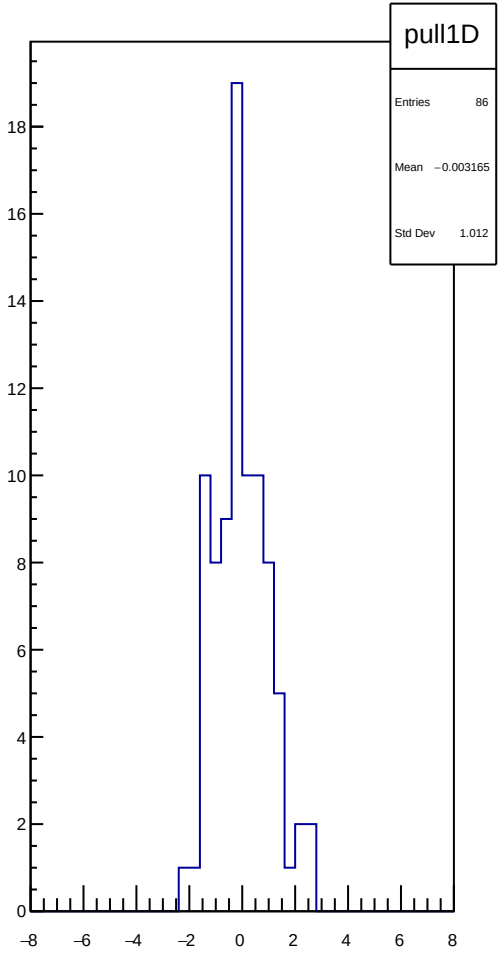

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 444 / 85
p0 1826 ± 1.406
1950
1900
1850
1800
1750

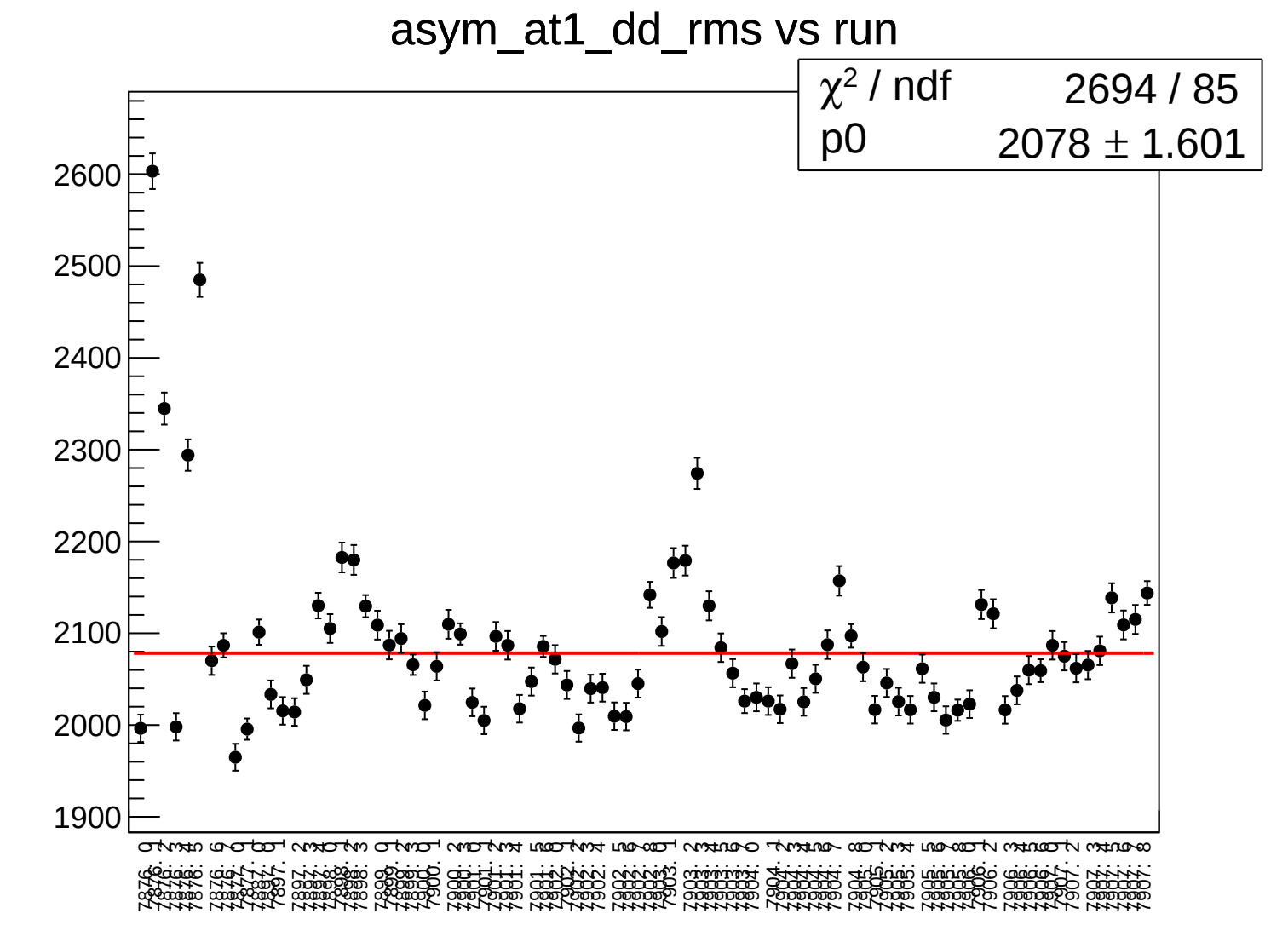

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.45 / 85
p0 325 ± 1056
pull
Entries 86
Mean −119.7
Std Dev 0

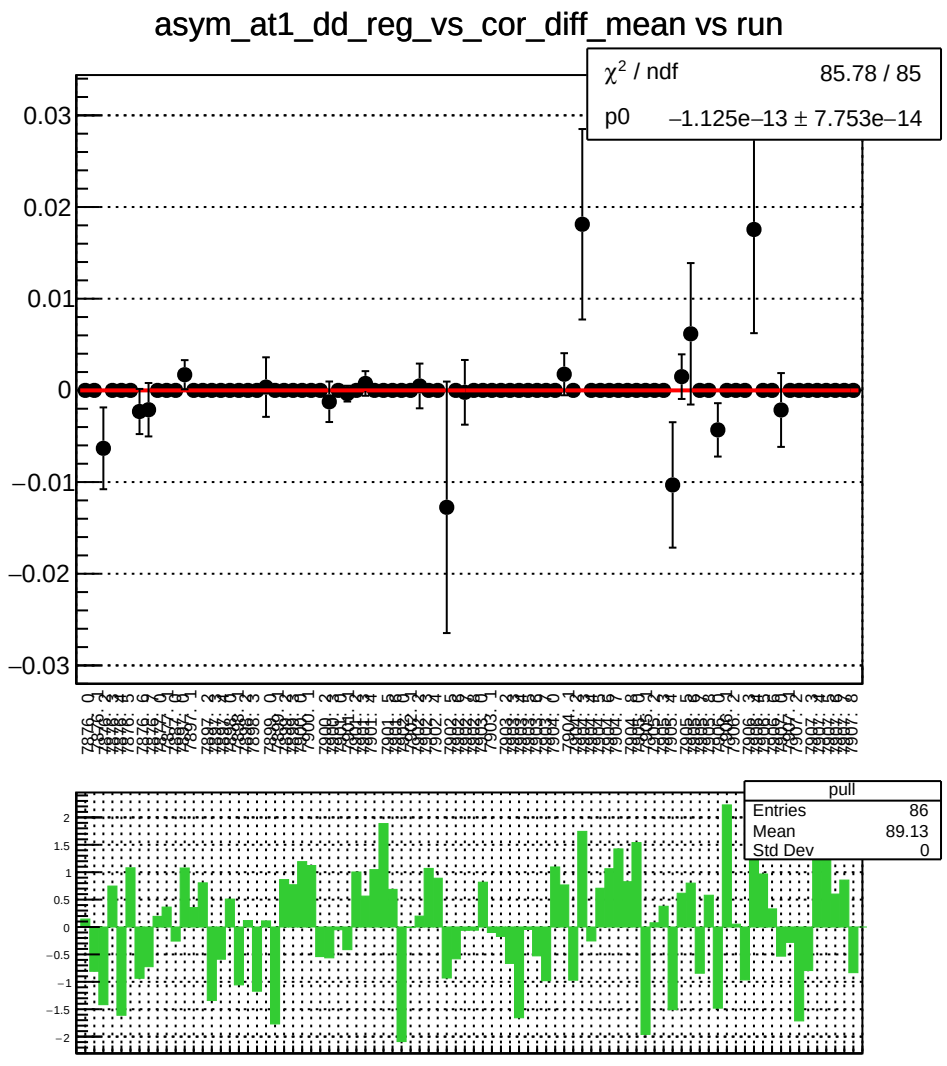

pull1D
Entries 86
Mean −0.01248
Std Dev 1.031

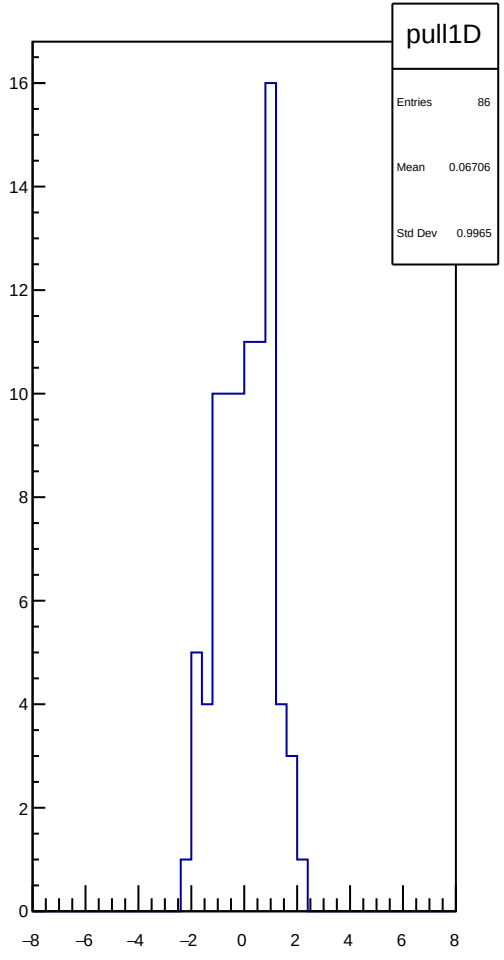

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.362e+04 / 85
p0 966 ± 0.7466
1800
1600
1400
1200
1000
800

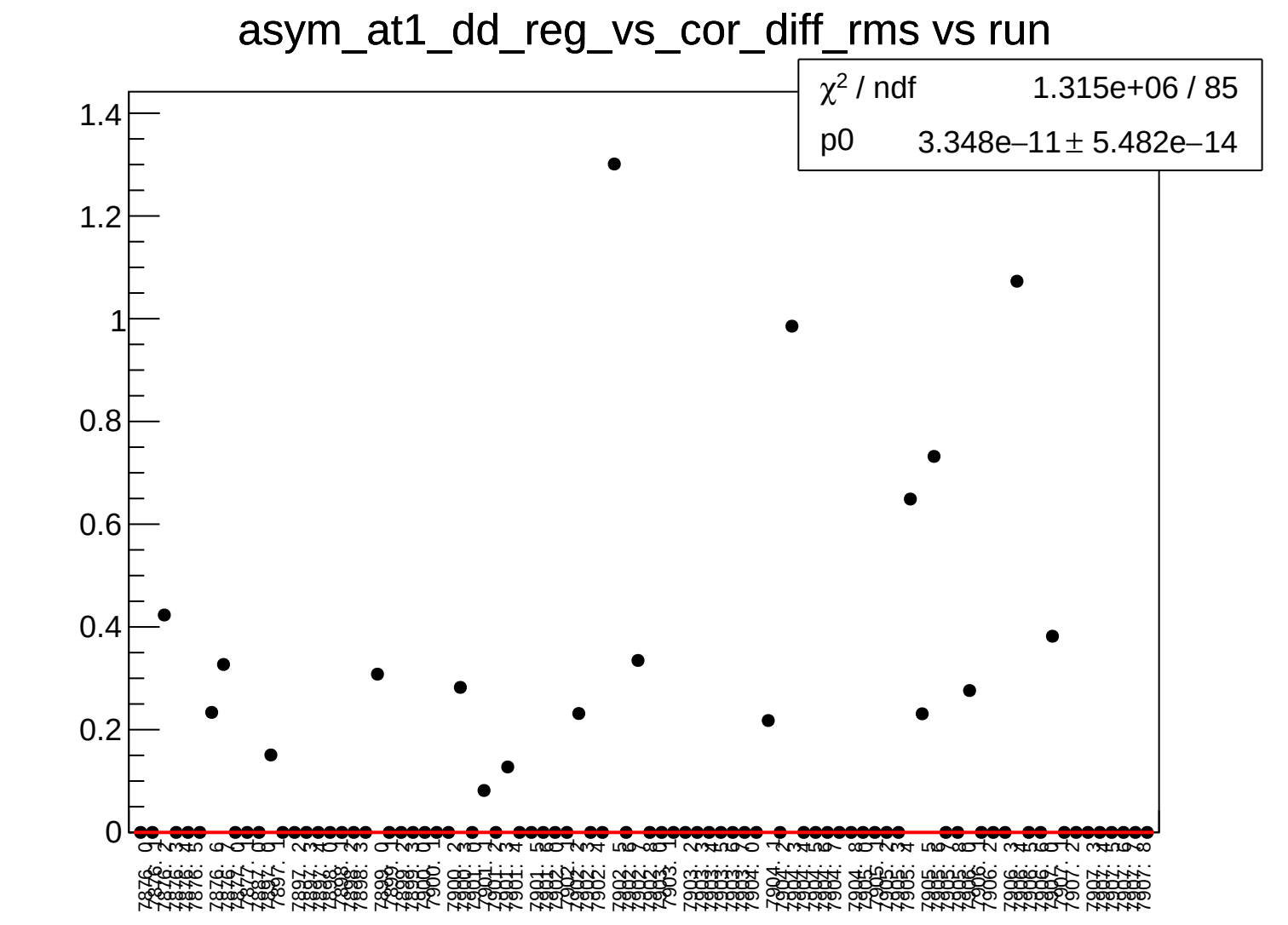

asym_at1_dd_mean vs run
χ² / ndf 88.14 / 85
p0 1397 ± 2264
×10³
pull
Entries 86
Mean 729.2
Std Dev 0

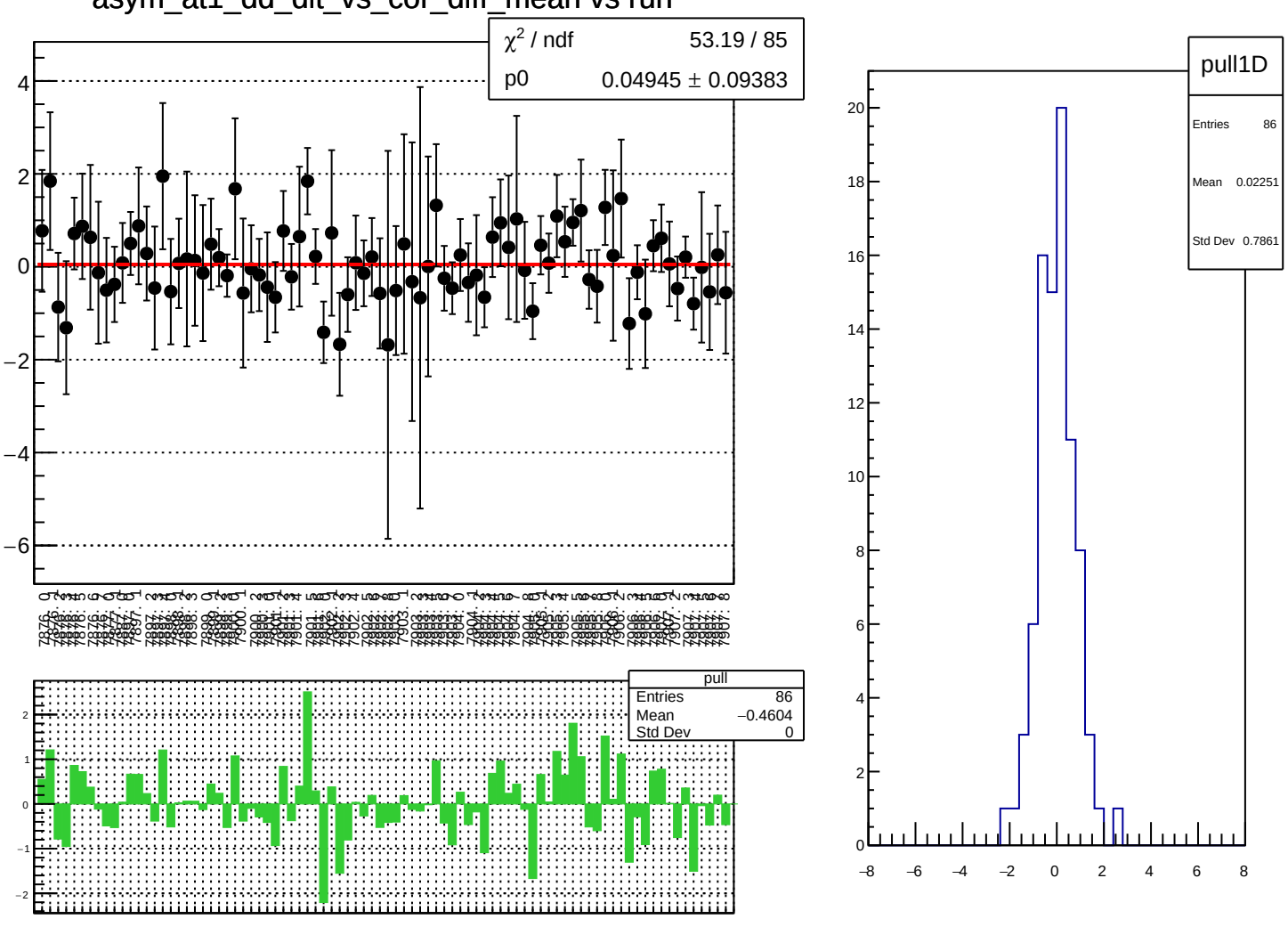

pull1D
Entries 86
Mean −0.003165
Std Dev 1.012

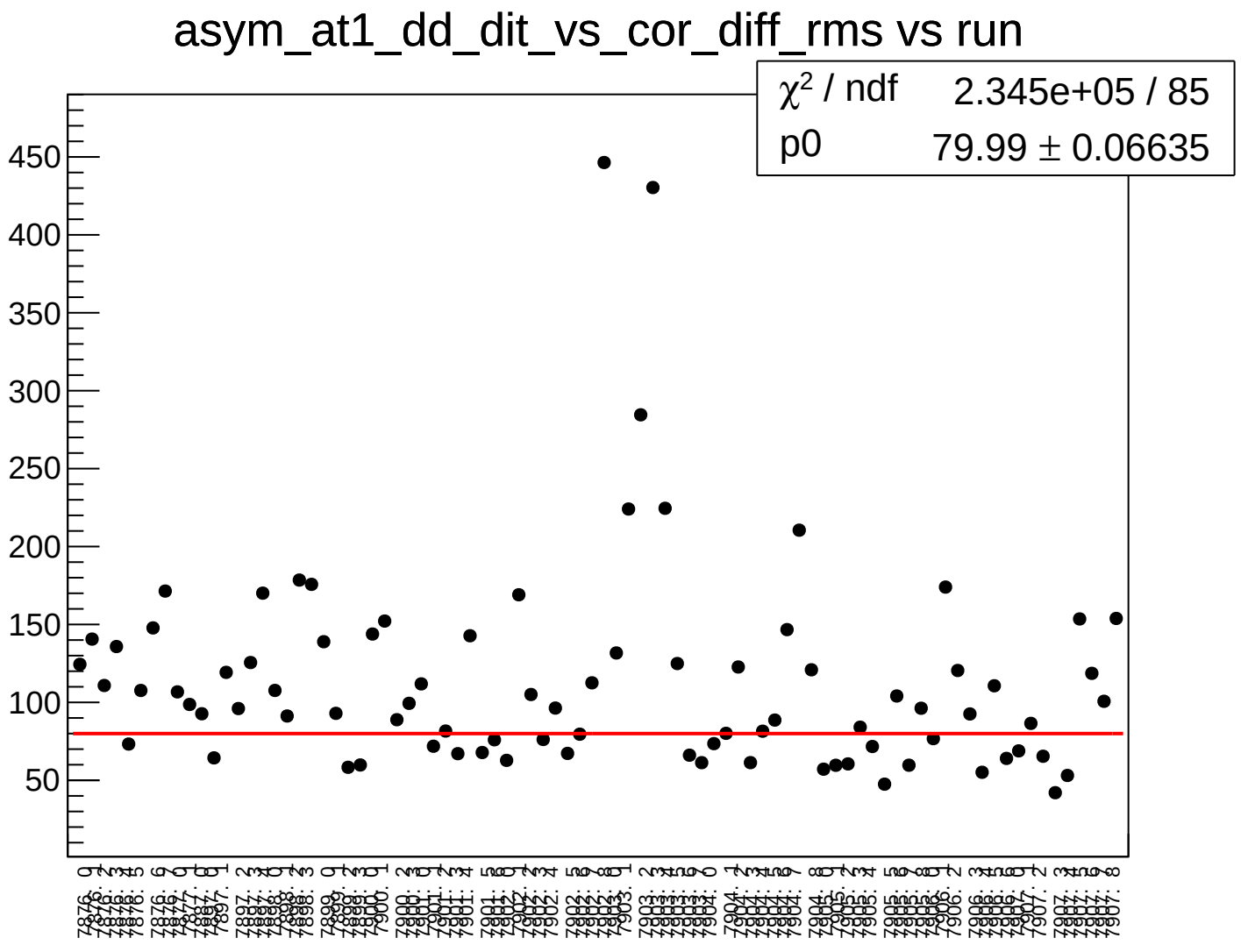

asym_at1_dd_rms vs run
χ^2 / ndf 2694 / 85
p0 2078 ± 1.601
2600
2500
2400
2300
2200
2100
2000
1900

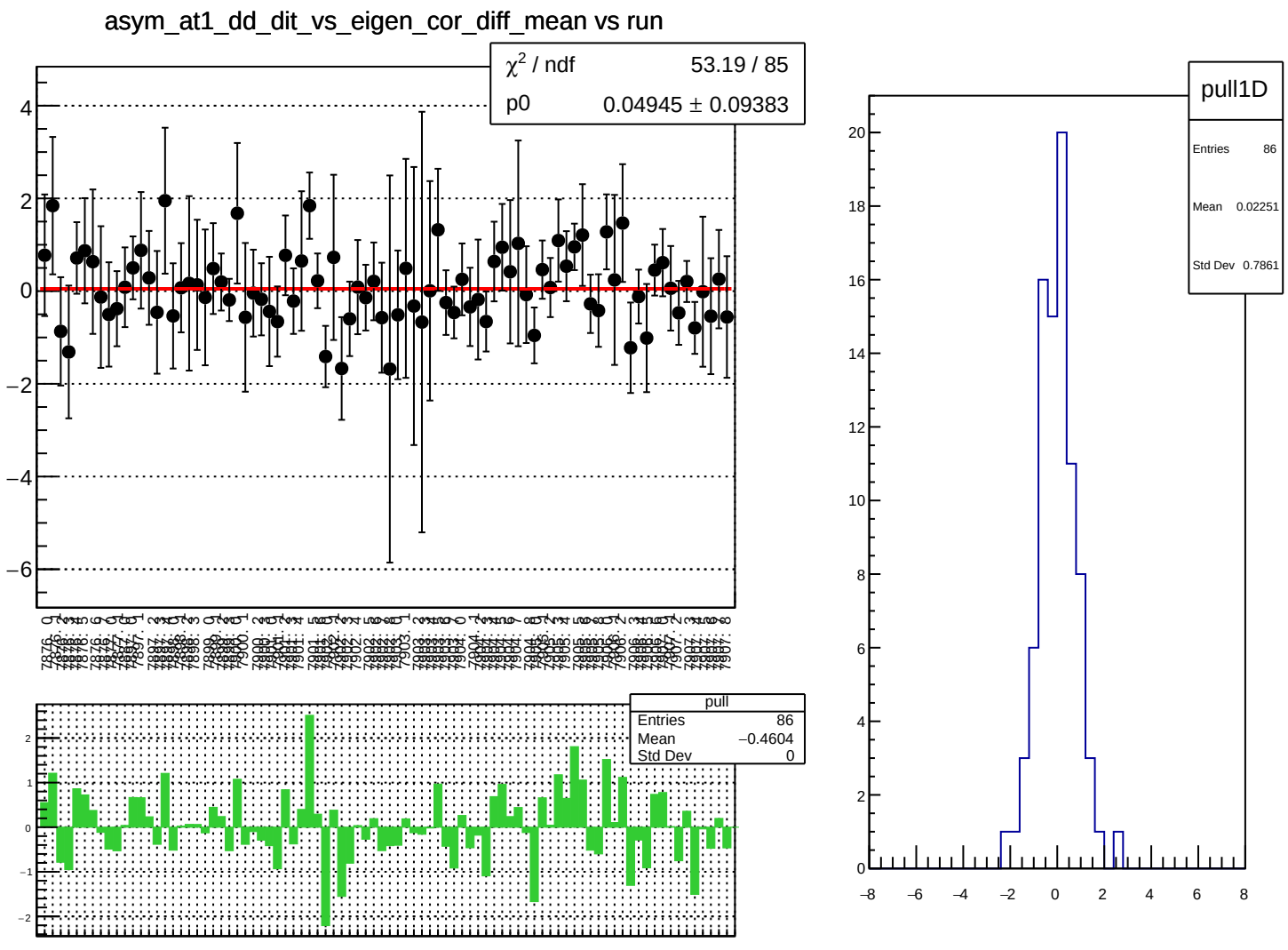

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.78 / 85
p0 −1.125e−13 ± 7.753e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 89.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

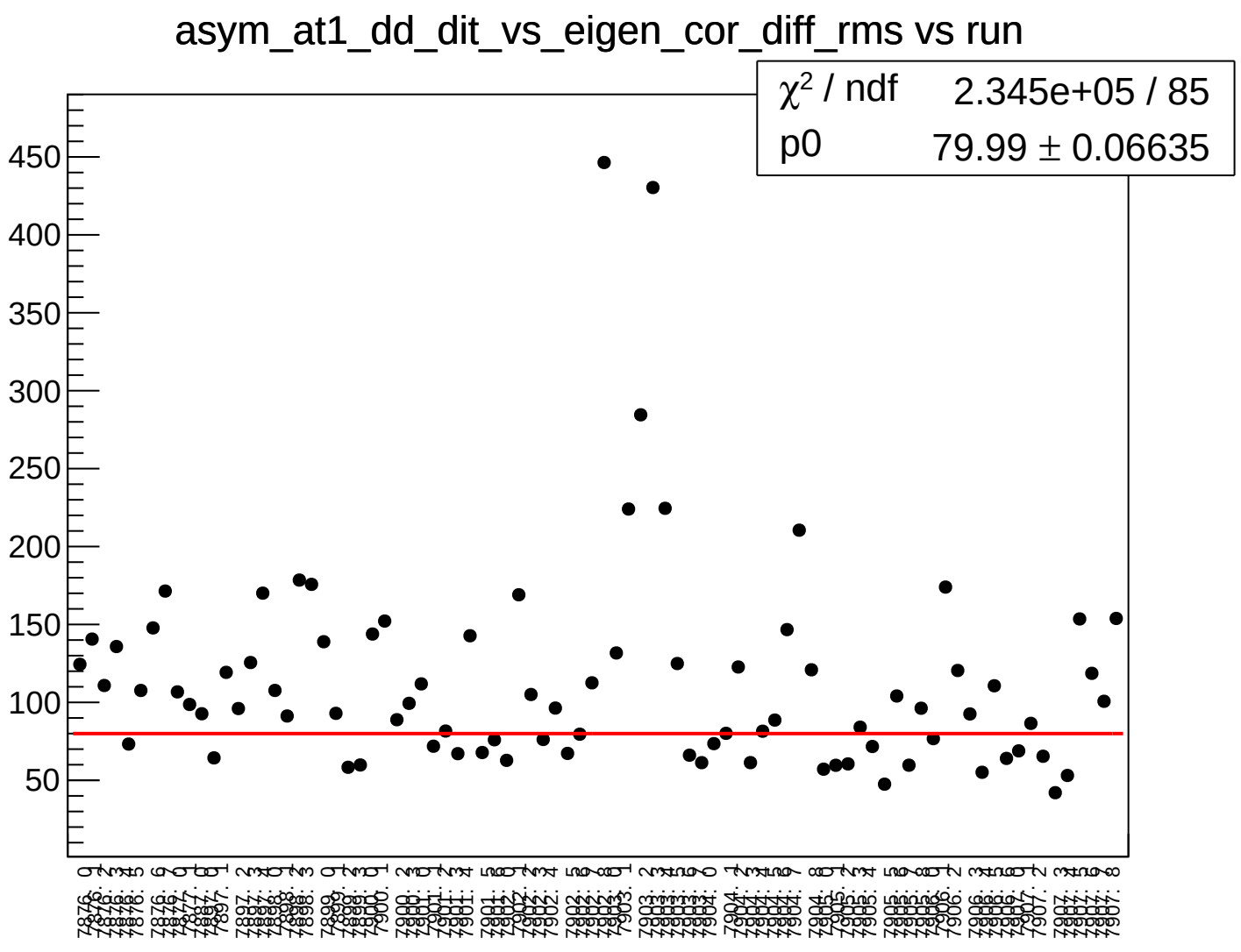

pull1D
Entries 86
Mean 0.06706
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

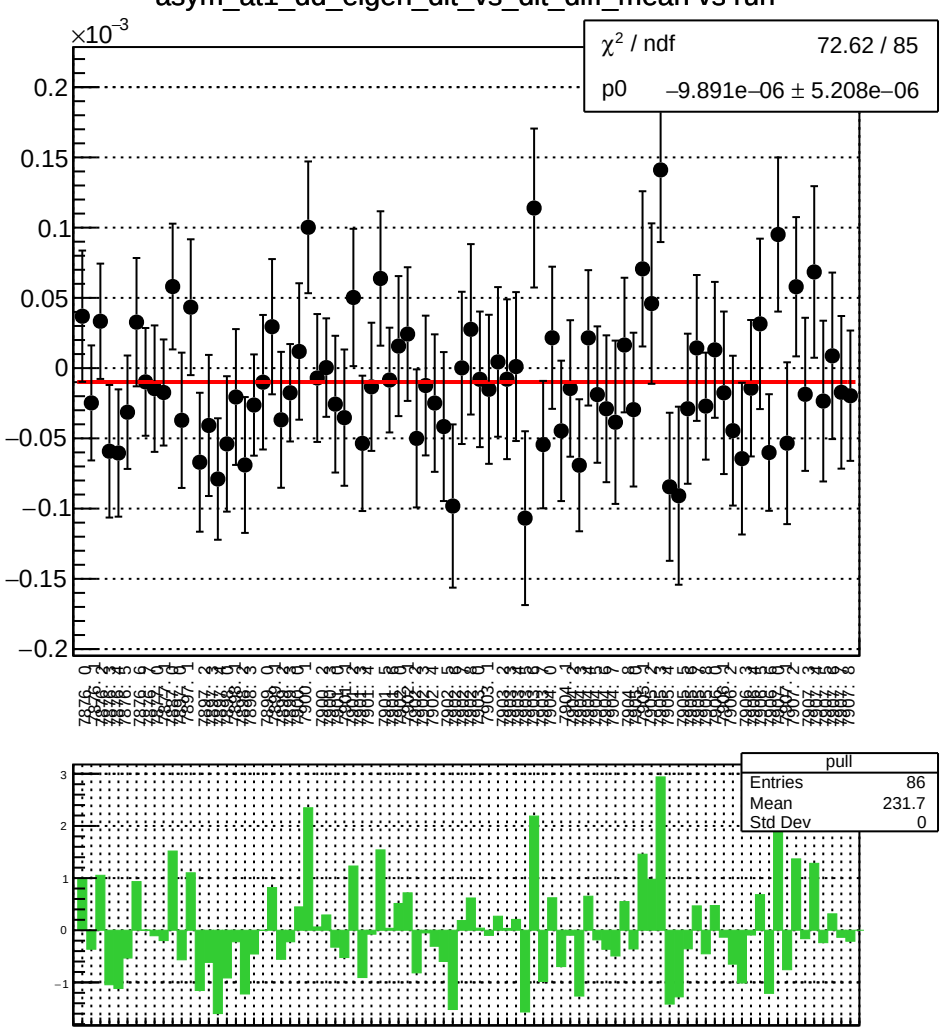

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.315e+06 / 85
p0 3.348e−11 ± 5.482e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

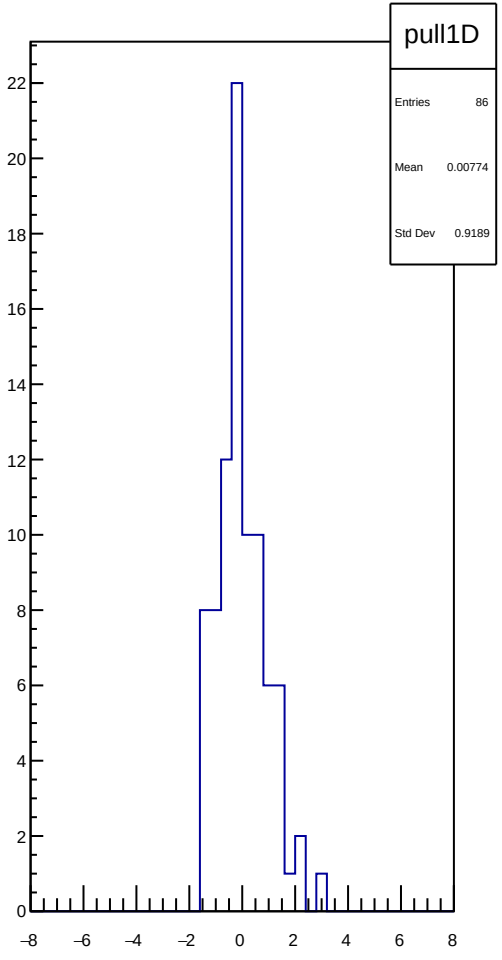

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 53.19 / 85
p0 0.04945 ± 0.09383
pull
Entries 86
Mean −0.4604
Std Dev 0
pull1D
Entries 86
Mean 0.02251
Std Dev 0.7861

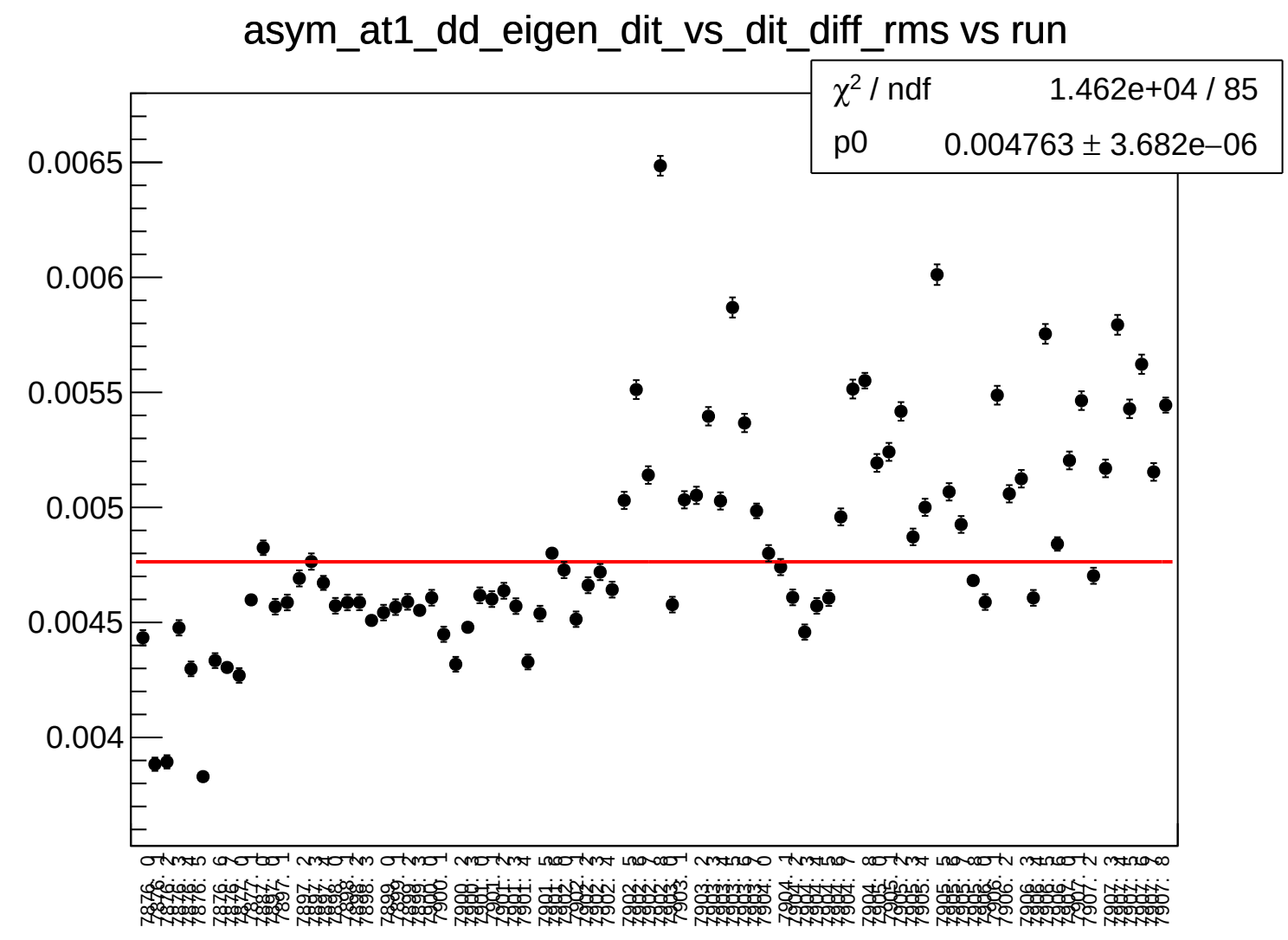

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.345e+05 / 85
p0 79.99 ± 0.06635
450
400
350
300
250
200
150
100
50


asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.19 / 85
p0 0.04945 ± 0.09383
pull
Entries 86
Mean −0.4604
Std Dev 0
pull1D
Entries 86
Mean 0.02251
Std Dev 0.7861

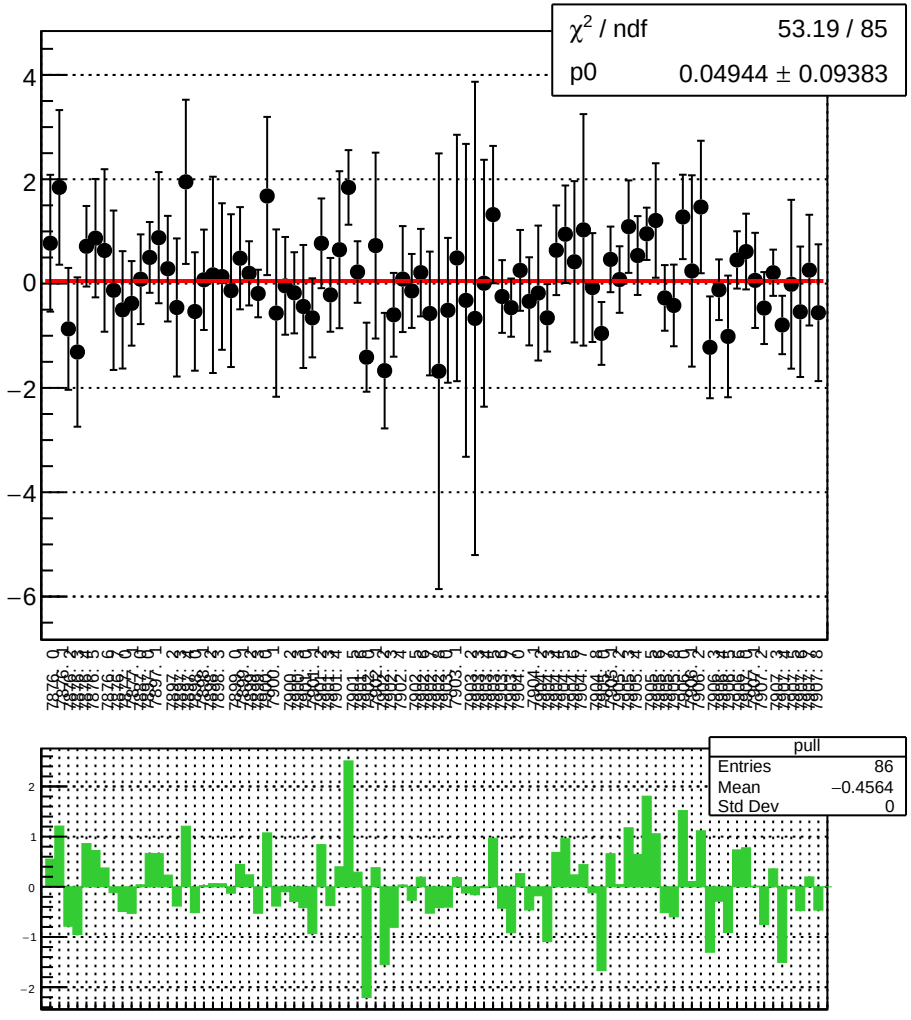

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.345e+05 / 85
p0 79.99 ± 0.06635
450
400
350
300
250
200
150
100
50

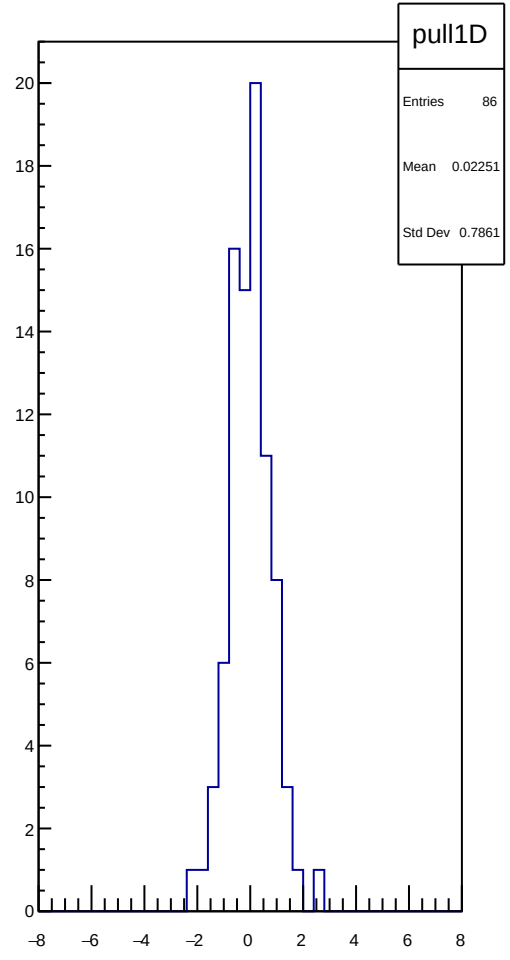

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.62 / 85
p0 −9.891e−06 ± 5.208e−06
pull
Entries 86
Mean 231.7
Std Dev 0

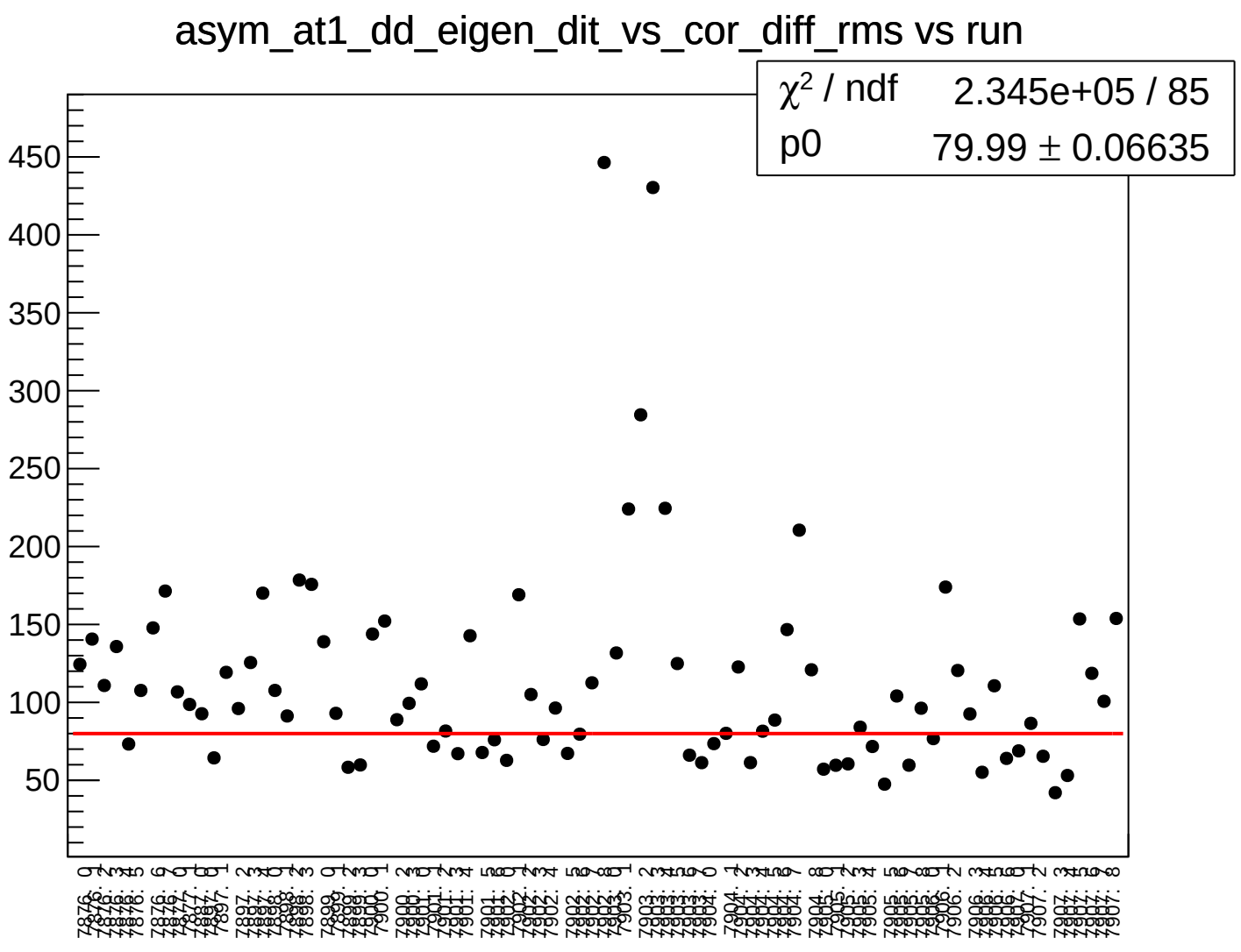

pull1D
Entries 86
Mean 0.00774
Std Dev 0.9189

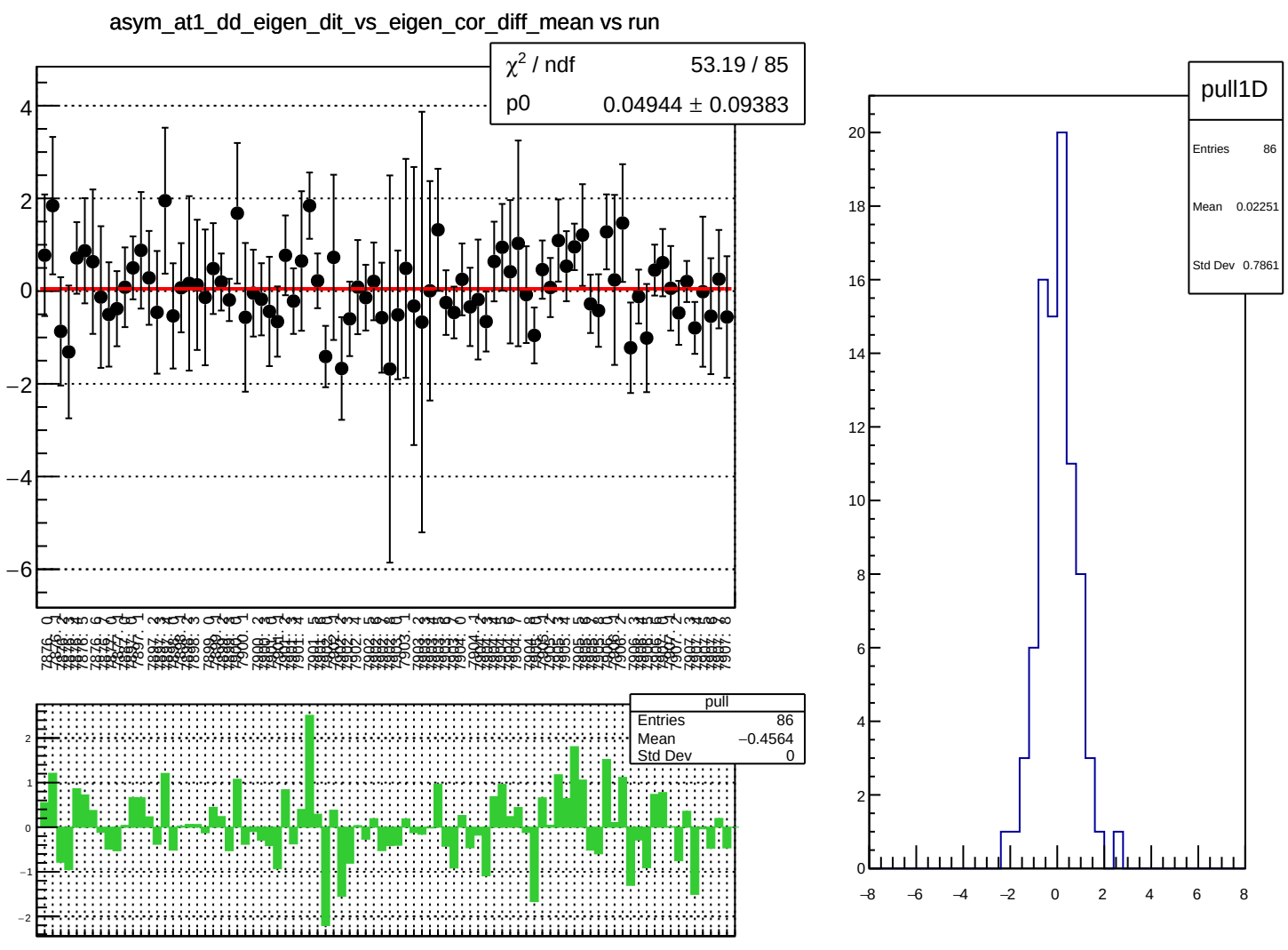

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.462e+04 / 85
p0 0.004763 ± 3.682e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004

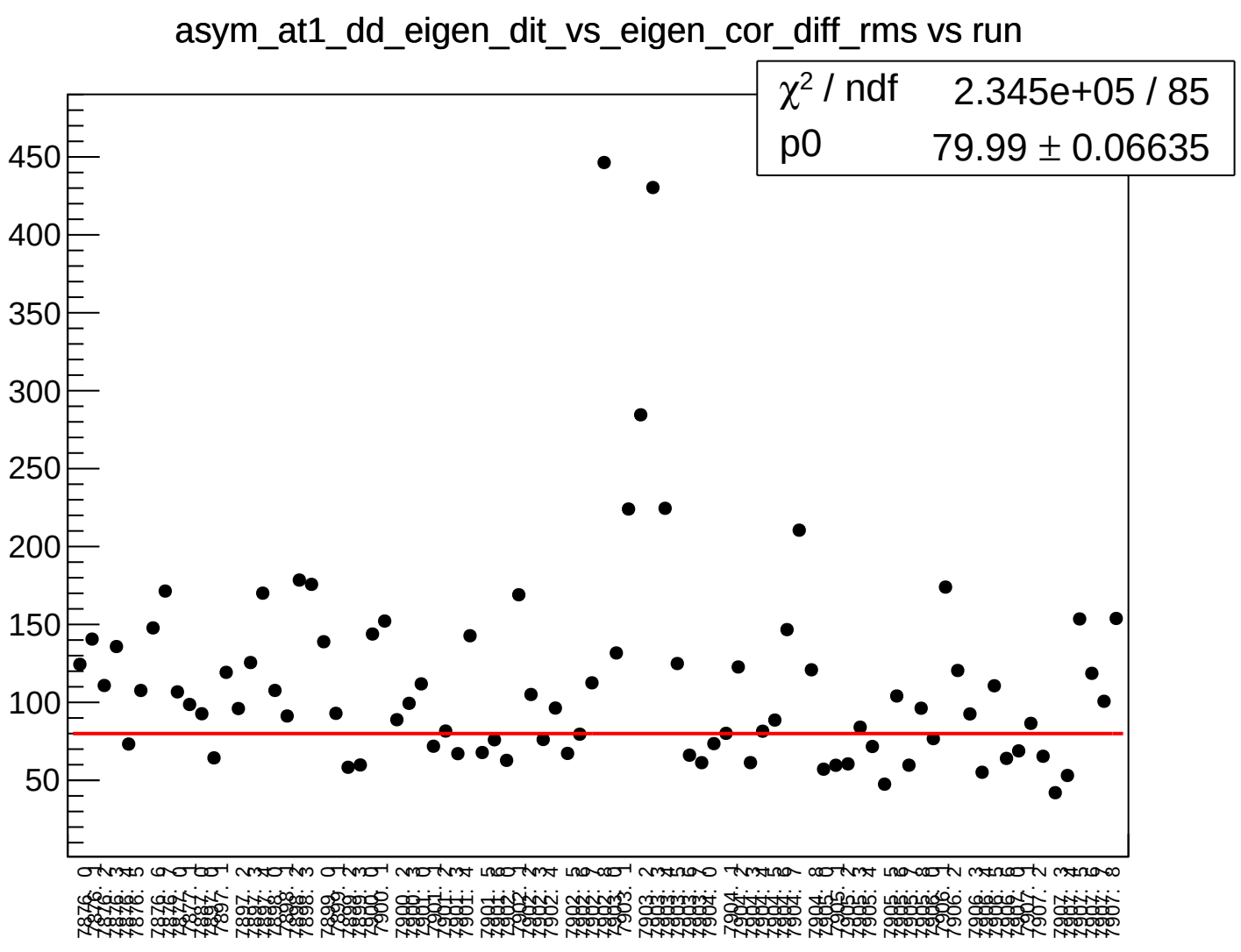
asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run

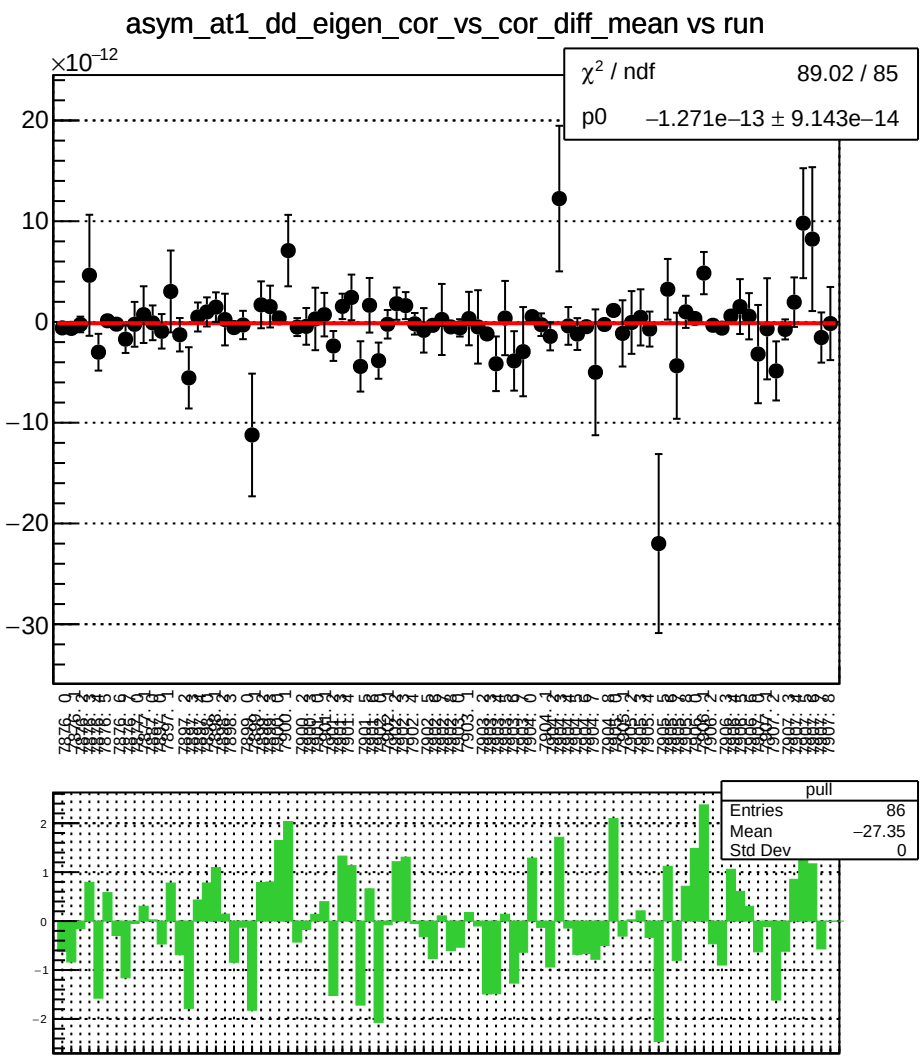


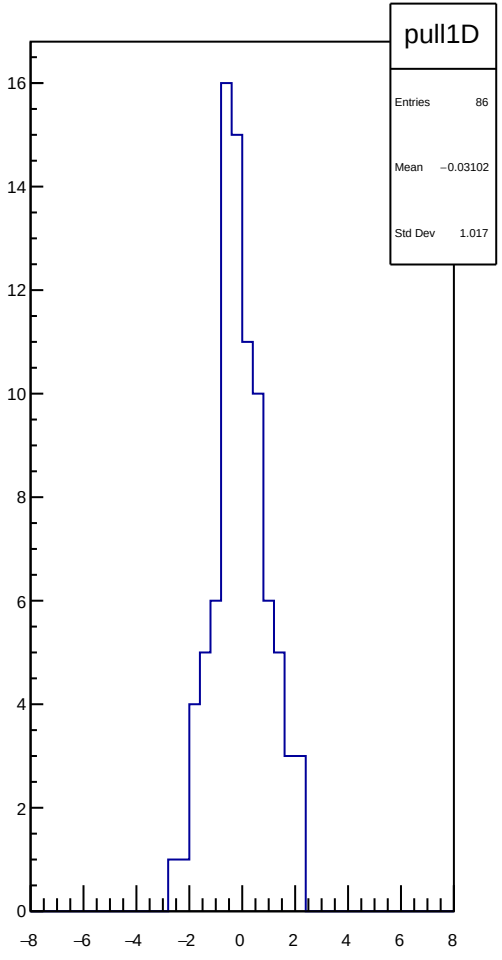


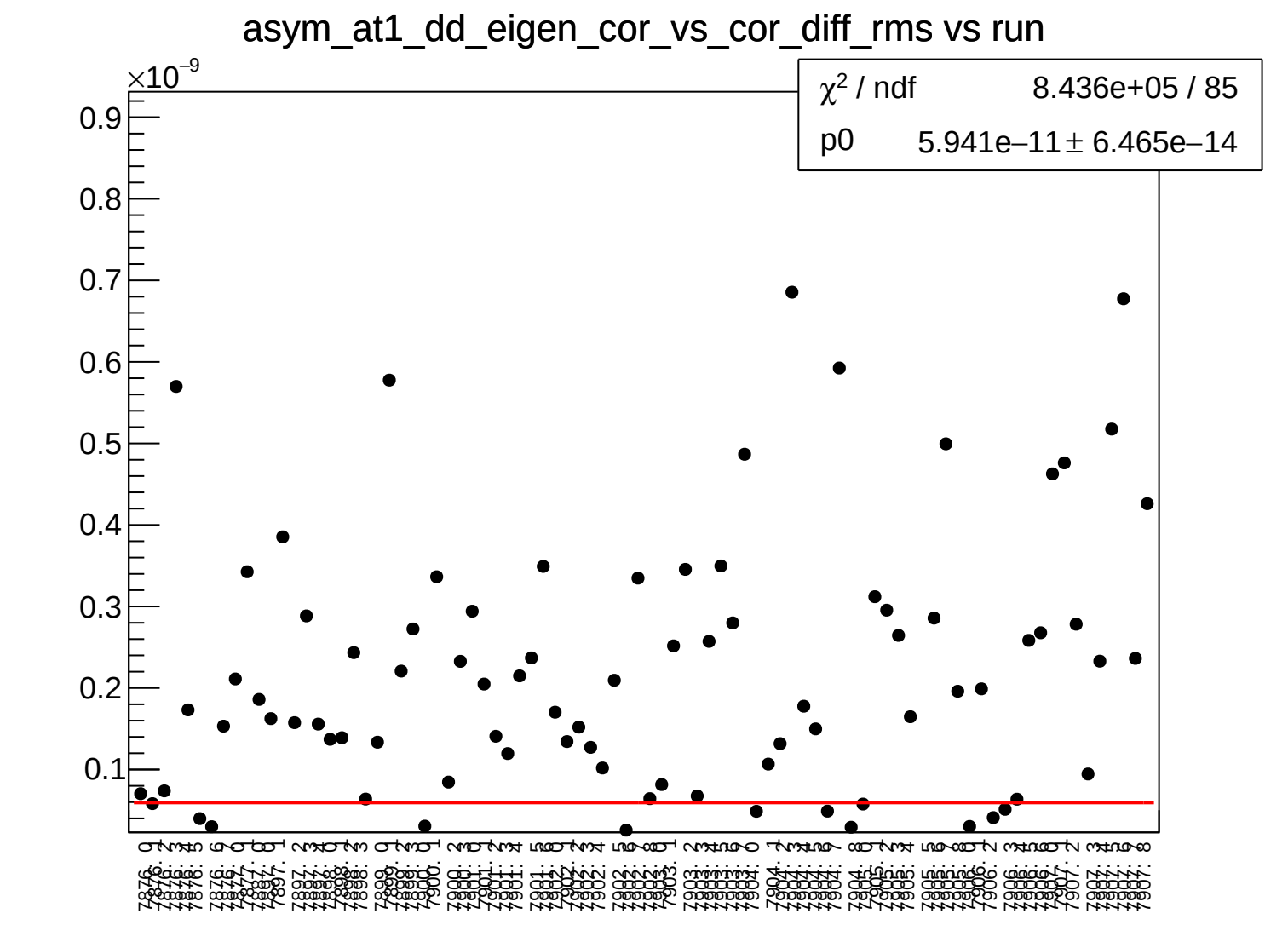

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.345e+05 / 85
p0 79.99 ± 0.06635
450
400
350
300
250
200
150
100
50

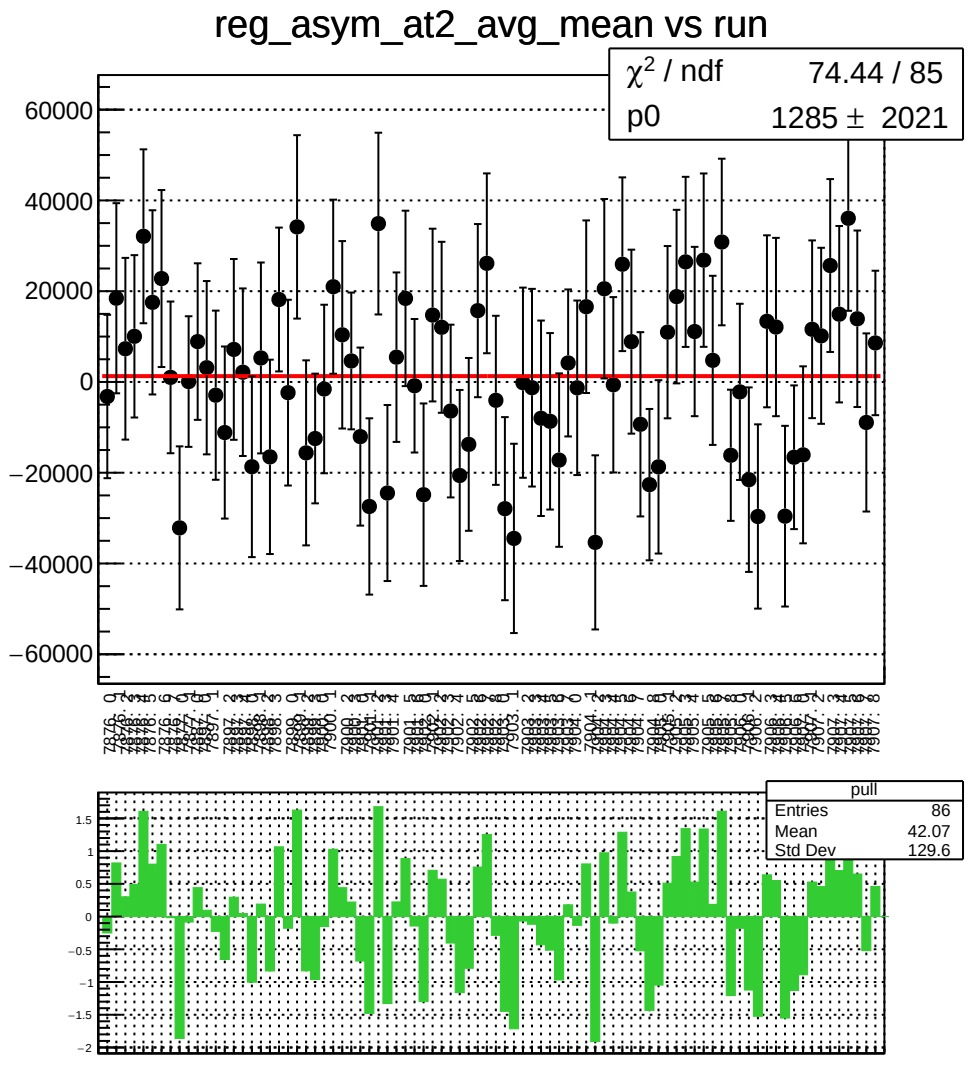

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.19 / 85
p0 0.04944 ± 0.09383
pull
Entries 86
Mean −0.4564
Std Dev 0
pull1D
Entries 86
Mean 0.02251
Std Dev 0.7861

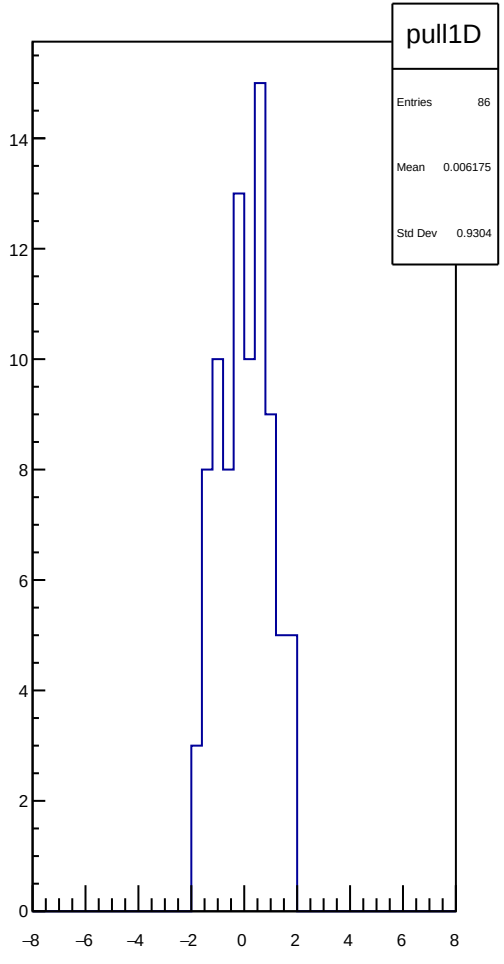

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.345e+05 / 85
p0 79.99 ± 0.06635
450
400
350
300
250
200
150
100
50

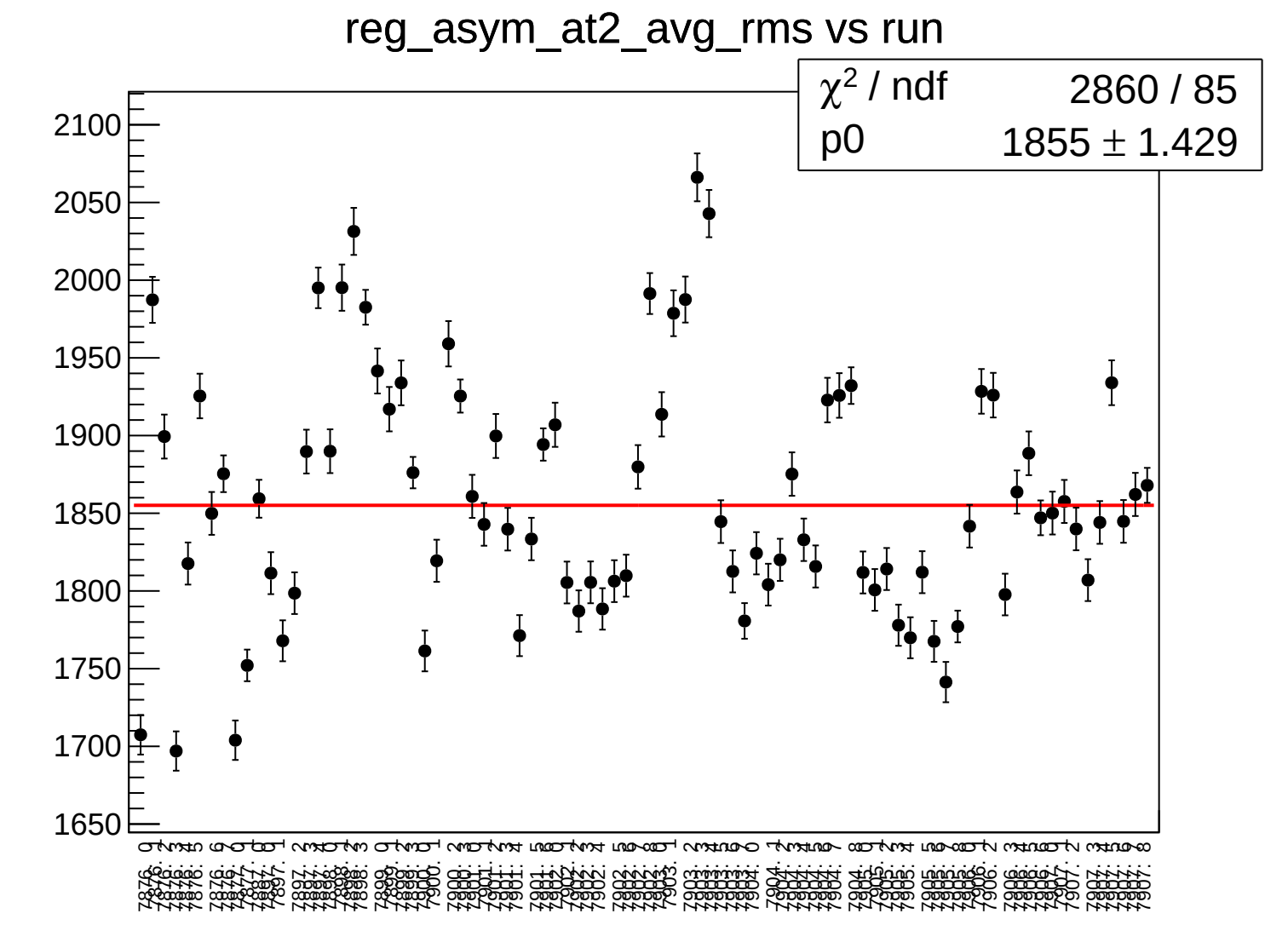

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.02 / 85
p0 −1.271e−13 ± 9.143e−14
pull
Entries 86
Mean −27.35
Std Dev 0

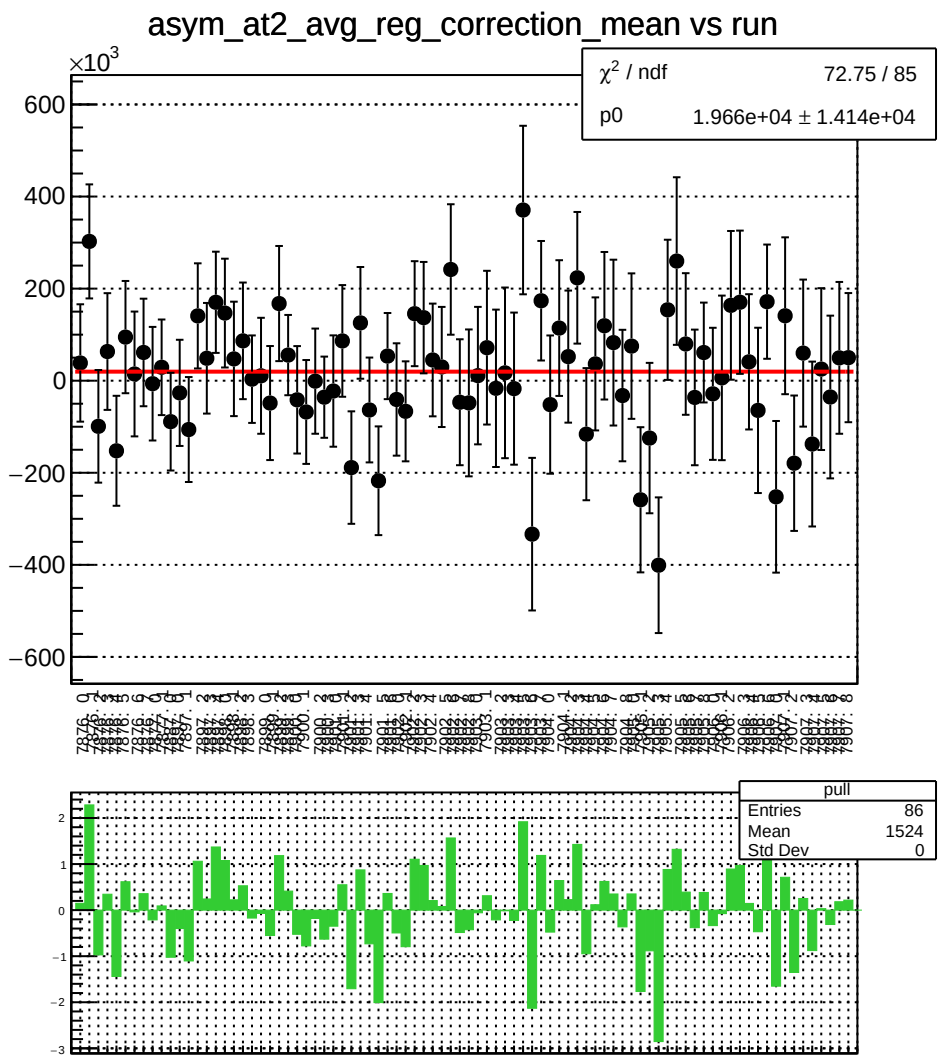

pull1D
Entries 86
Mean −0.03102
Std Dev 1.017

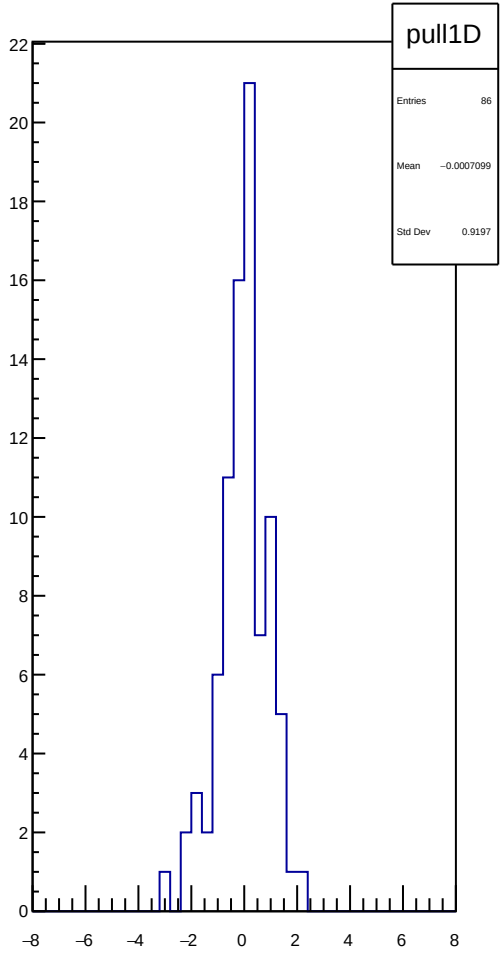

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.436e+05 / 85
p0 5.941e−11 ± 6.465e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

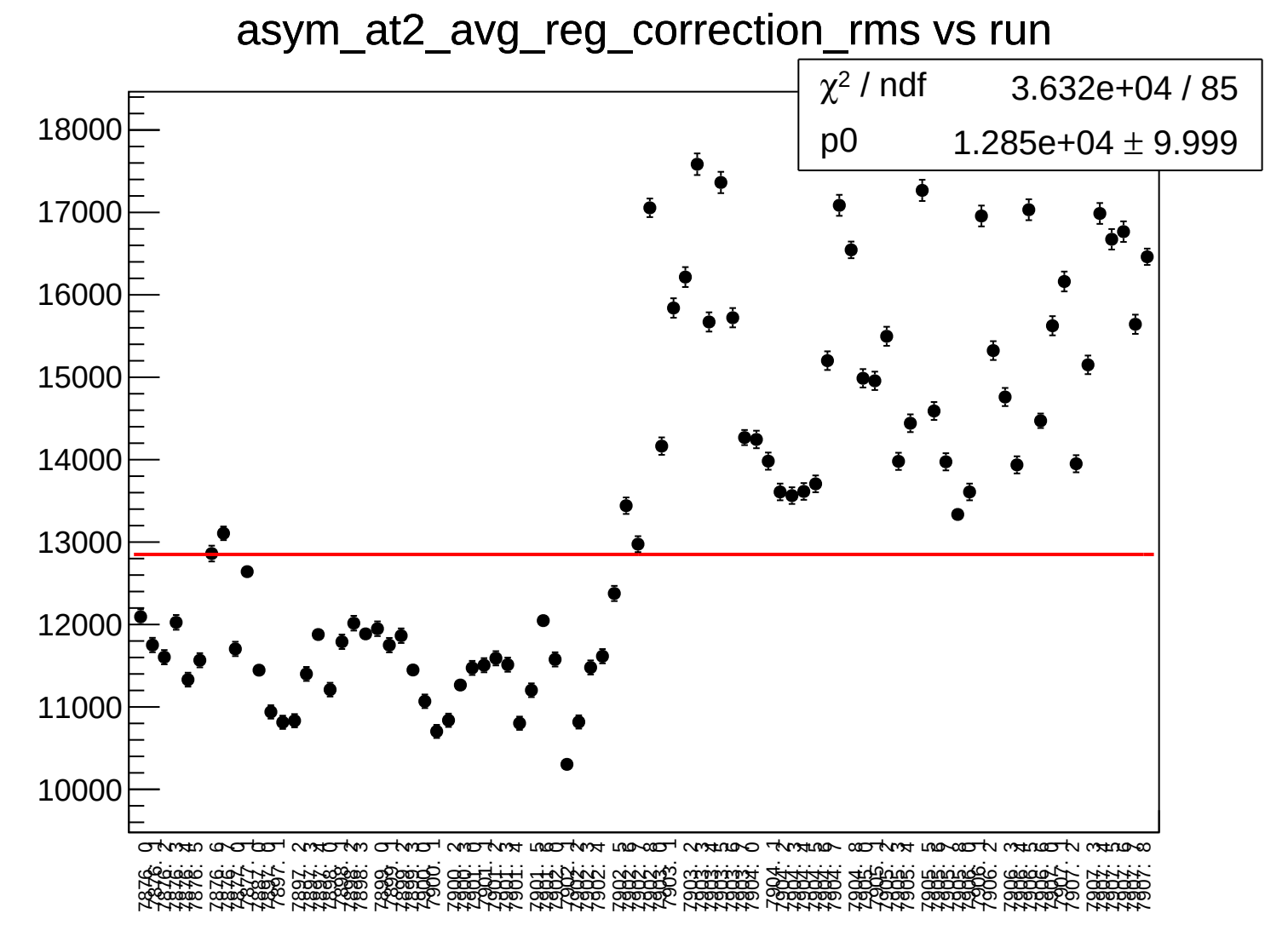

reg_asym_at2_avg_mean vs run
χ² / ndf 74.44 / 85
p0 1285 ± 2021
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 42.07
Std Dev 129.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

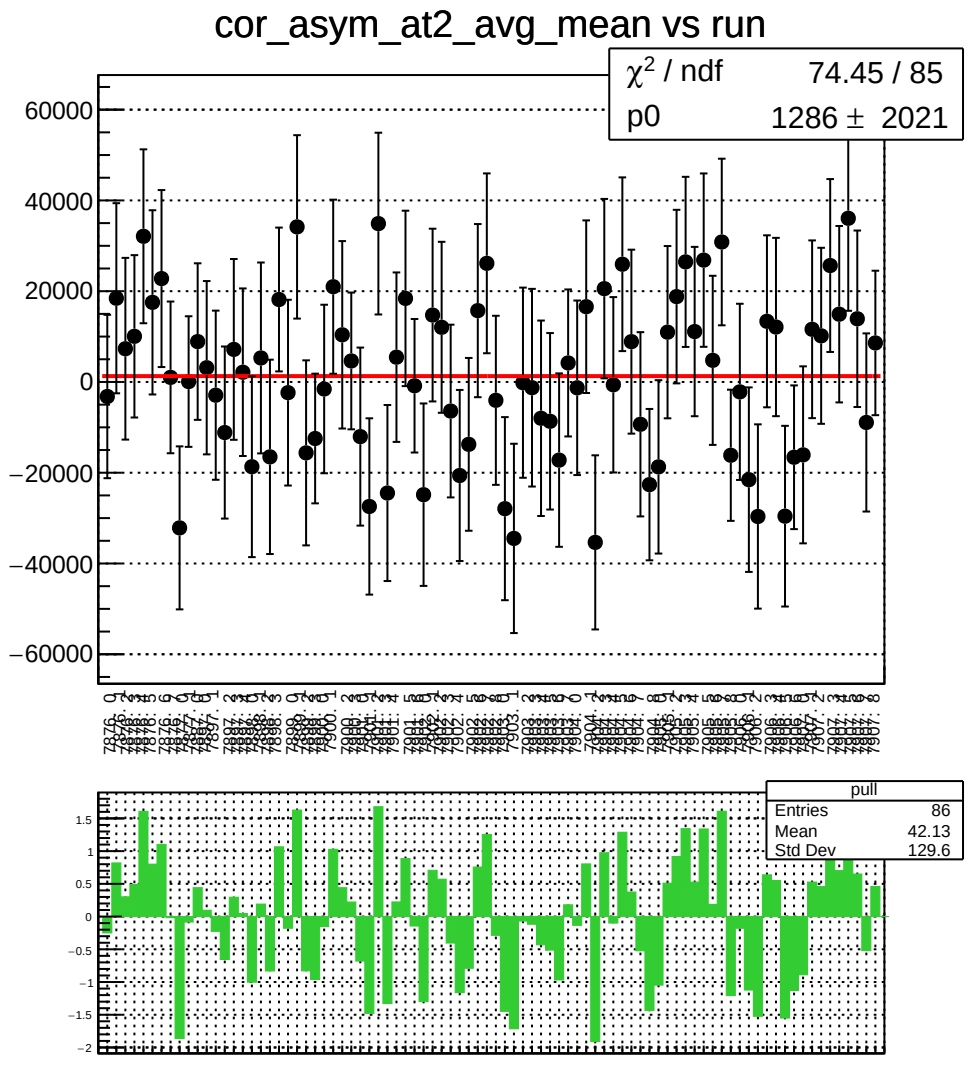

pull1D
Entries 86
Mean 0.006175
Std Dev 0.9304
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

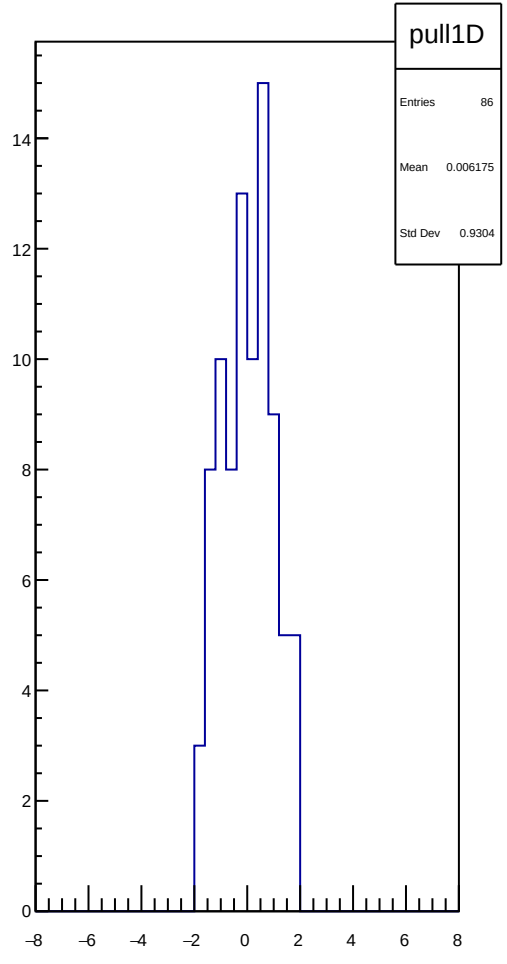

reg_asym_at2_avg_rms vs run
χ^2 / ndf 2860 / 85
p0 1855 ± 1.429
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

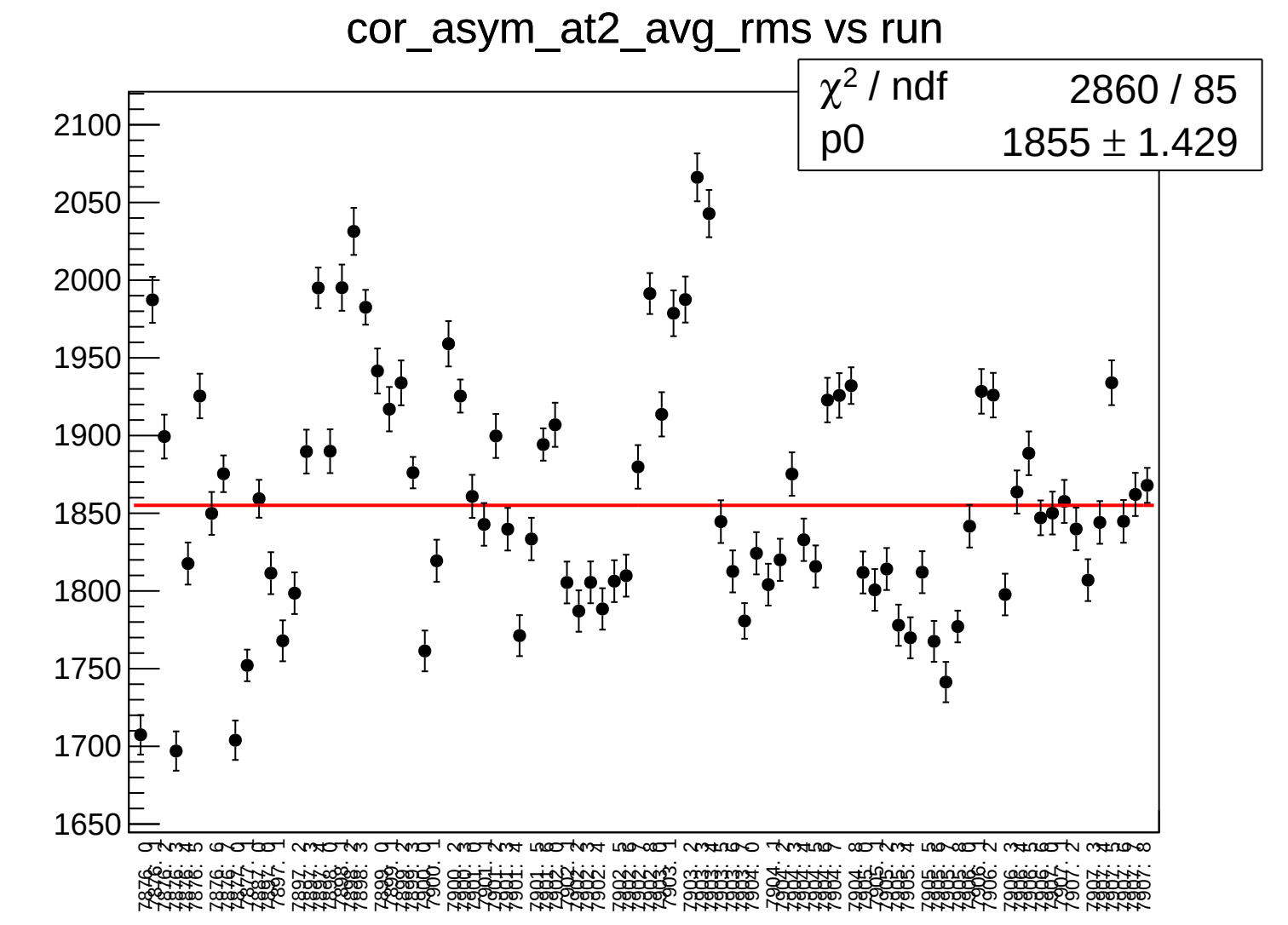

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.75 / 85
p0 1.966e+04 ± 1.414e+04
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean 1524
Std Dev 0
2
1
0
−1
−2
−3

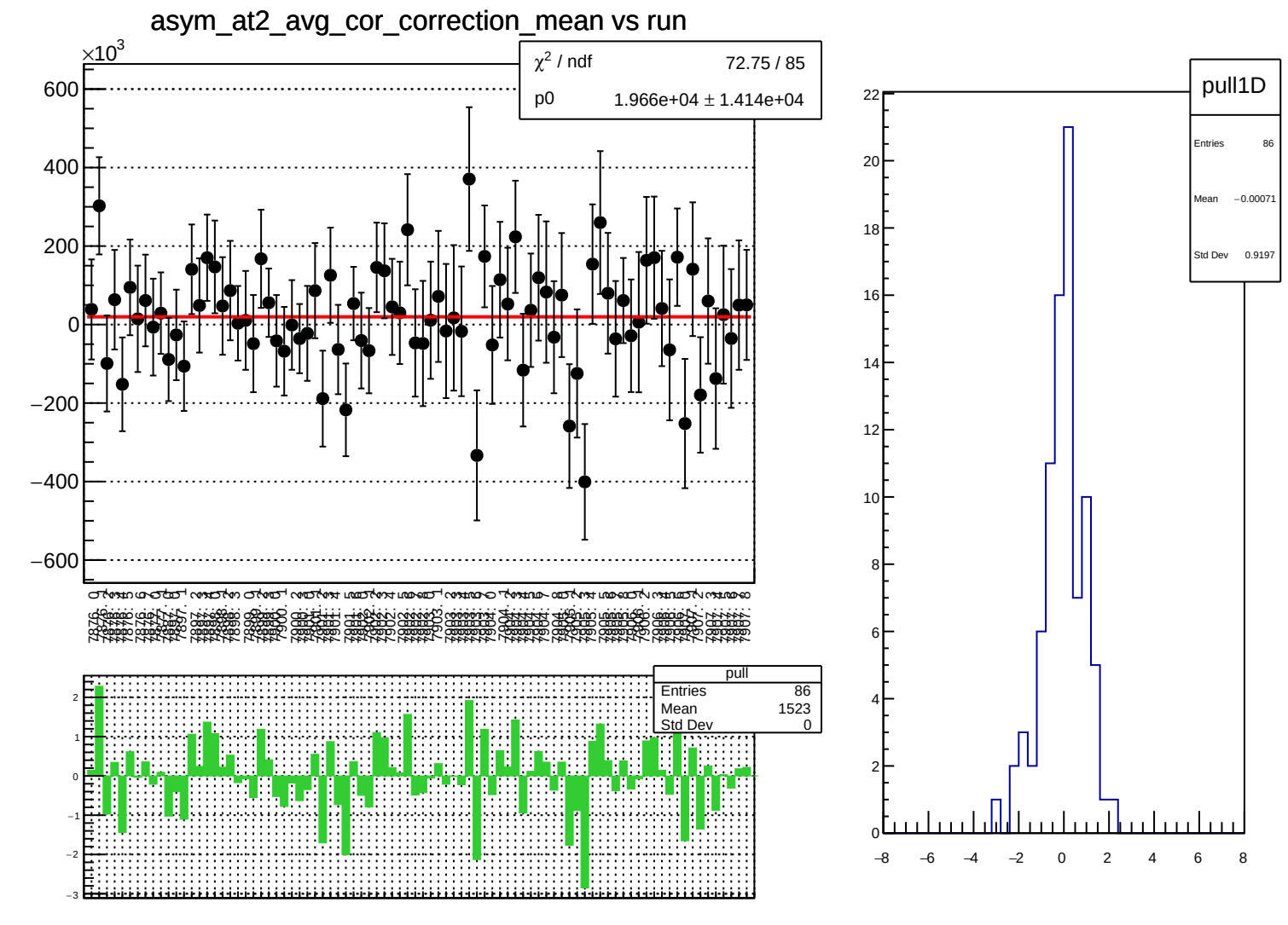

pull1D
Entries 86
Mean −0.0007099
Std Dev 0.9197
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

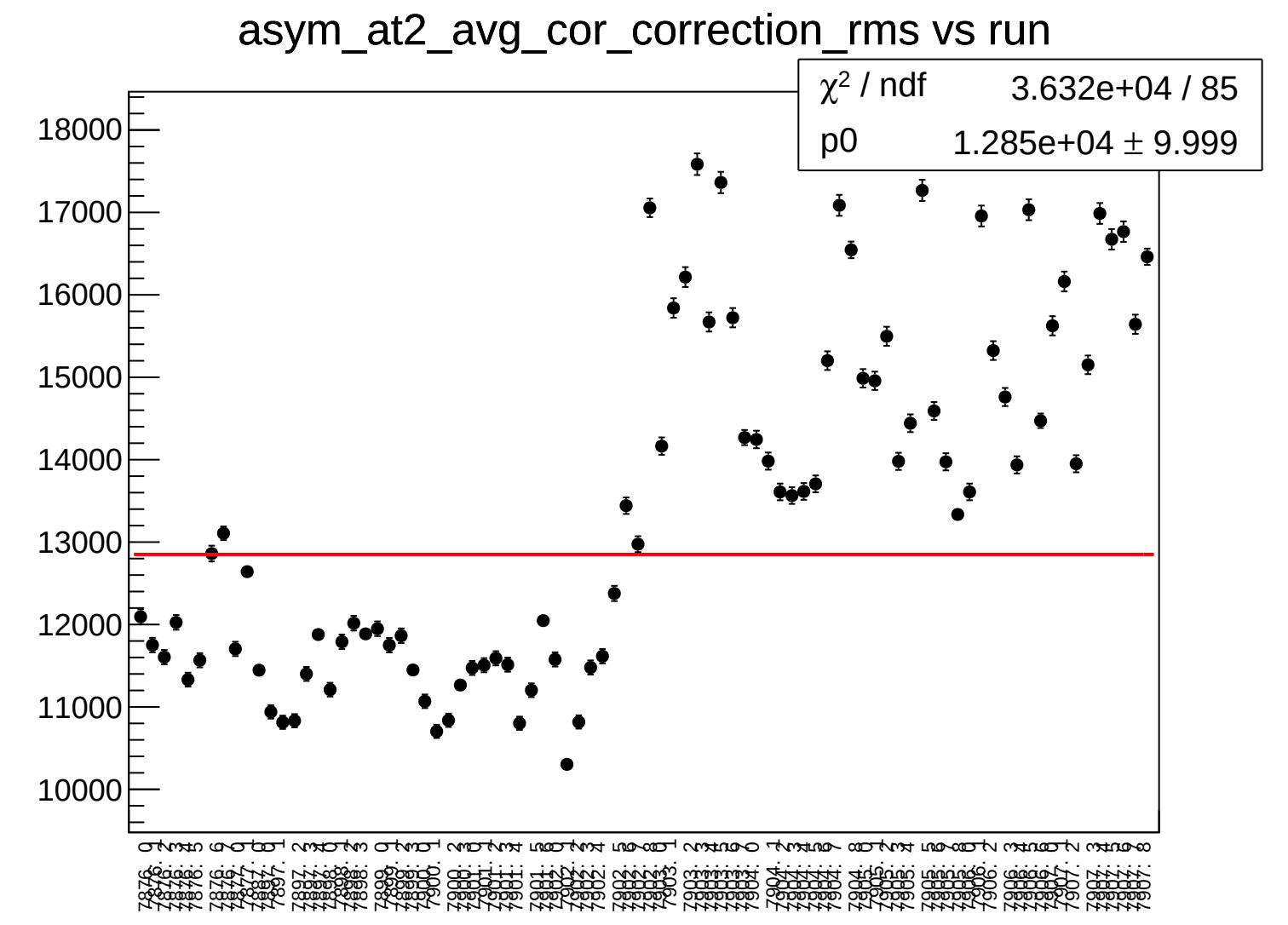

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 3.632e+04 / 85
p0 1.285e+04 ± 9.999
18000
17000
16000
15000
14000
13000
12000
11000
10000

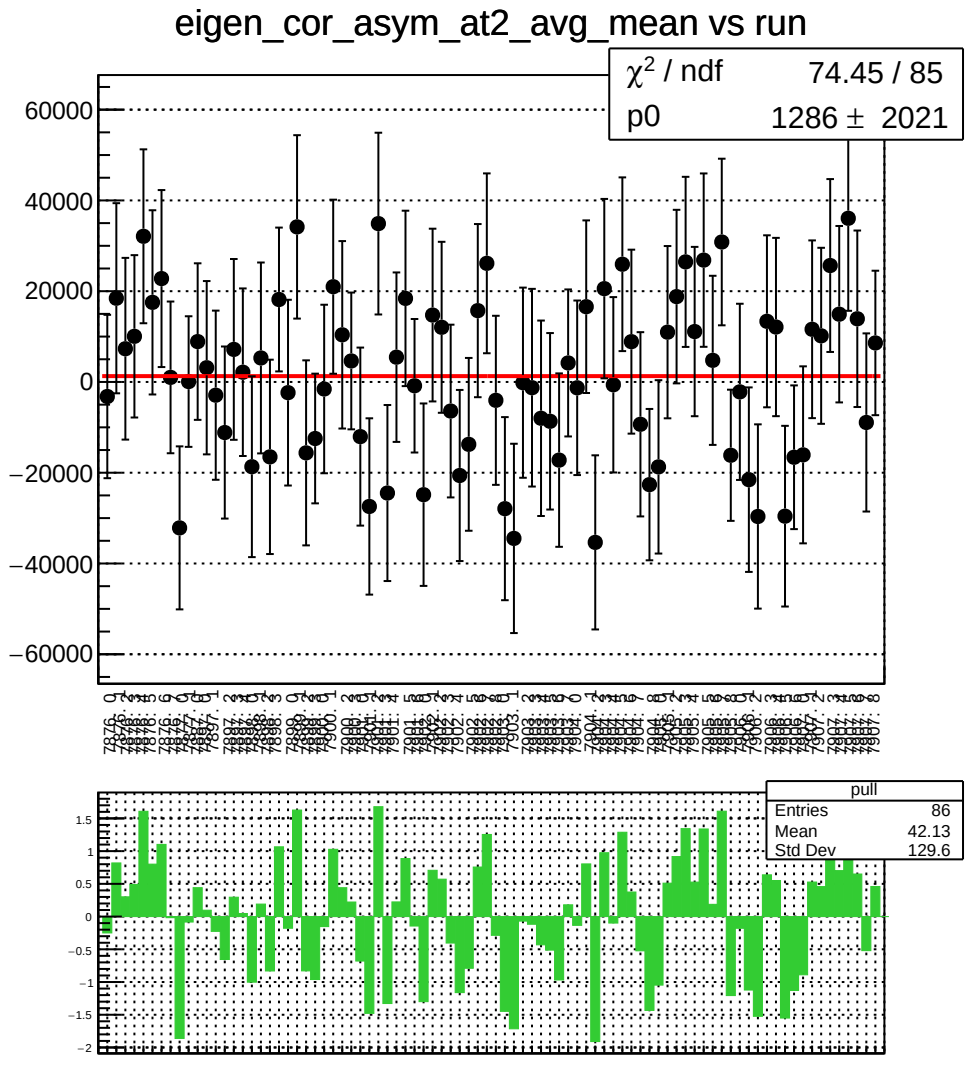

cor_asym_at2_avg_mean vs run
χ² / ndf 74.45 / 85
p0 1286 ± 2021
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 42.13
Std Dev 129.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

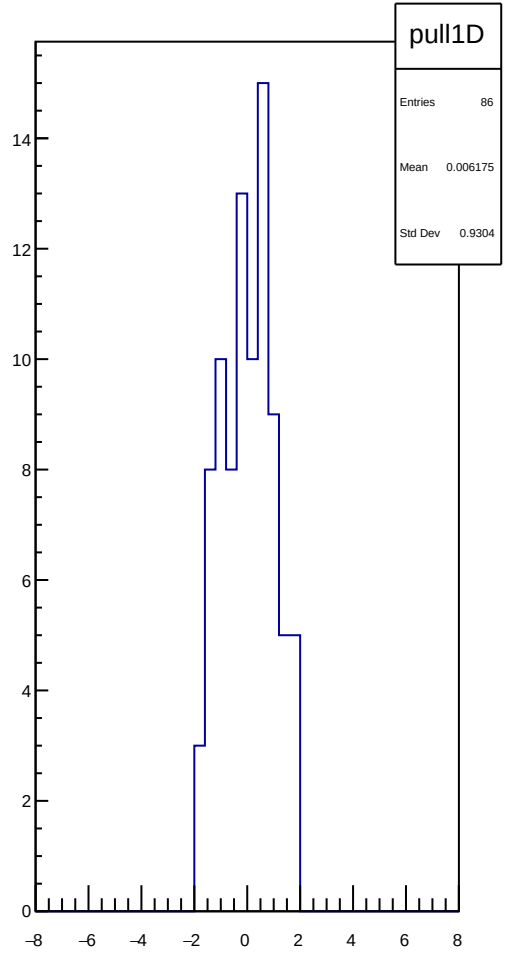

pull1D
Entries 86
Mean 0.006175
Std Dev 0.9304
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

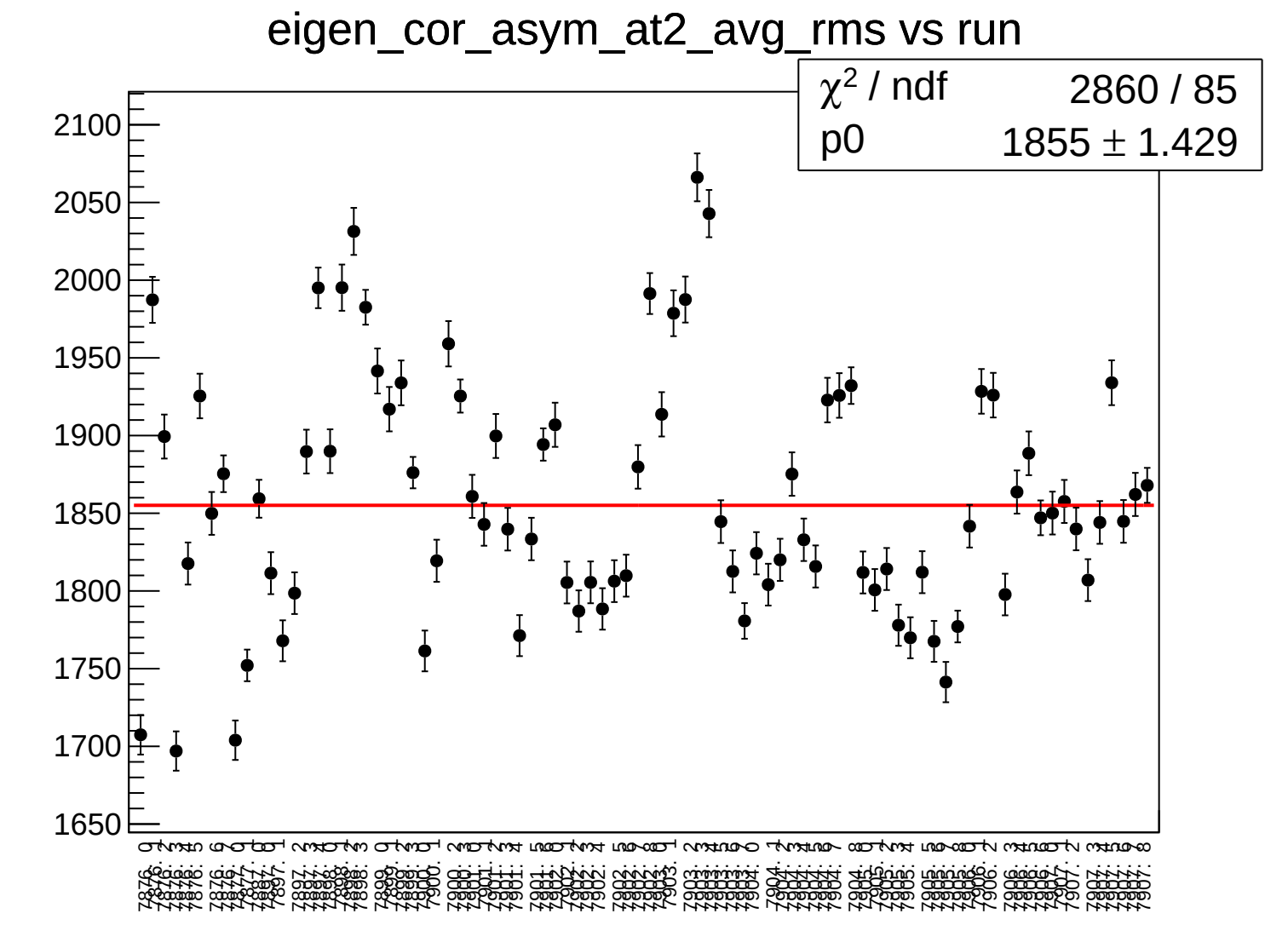

cor_asym_at2_avg_rms vs run
χ^2 / ndf 2860 / 85
p0 1855 ± 1.429
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

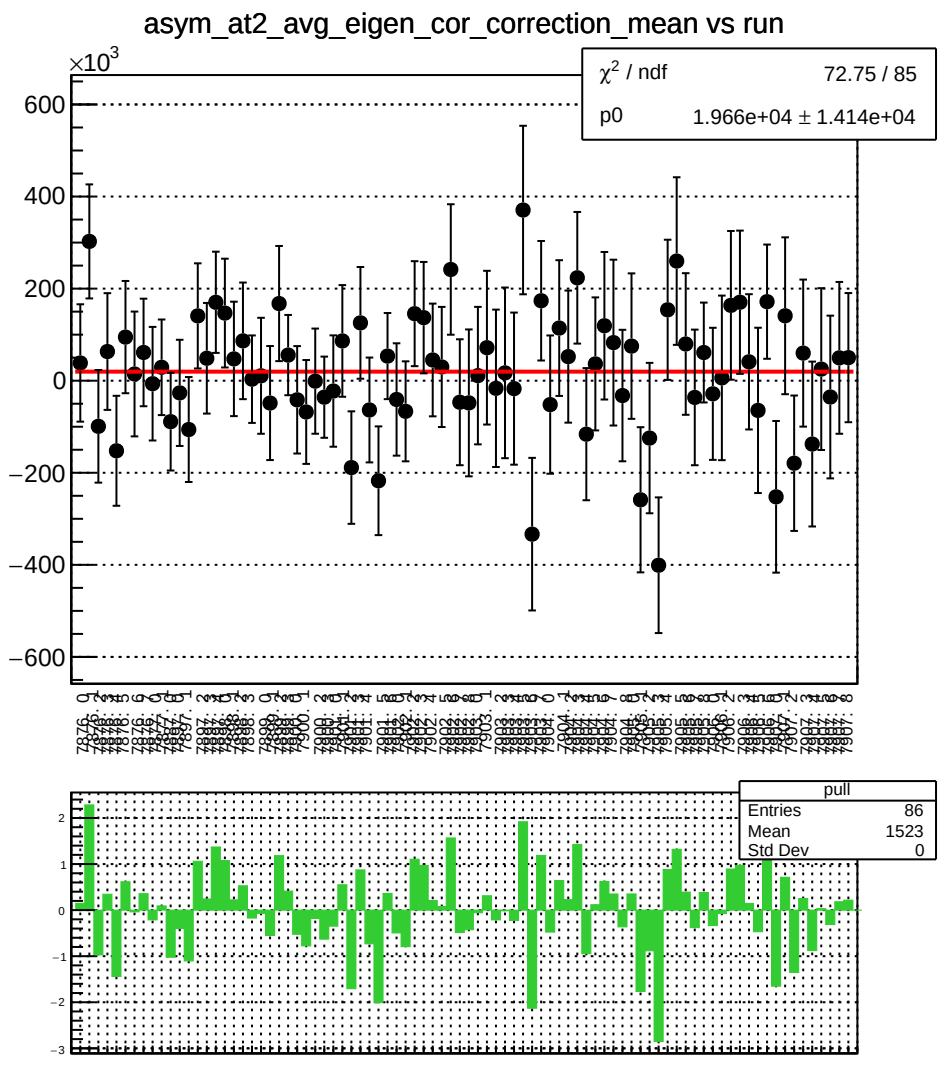

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 72.75 / 85
p0 1.966e+04 ± 1.414e+04
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean 1523
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.00071
Std Dev 0.9197
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

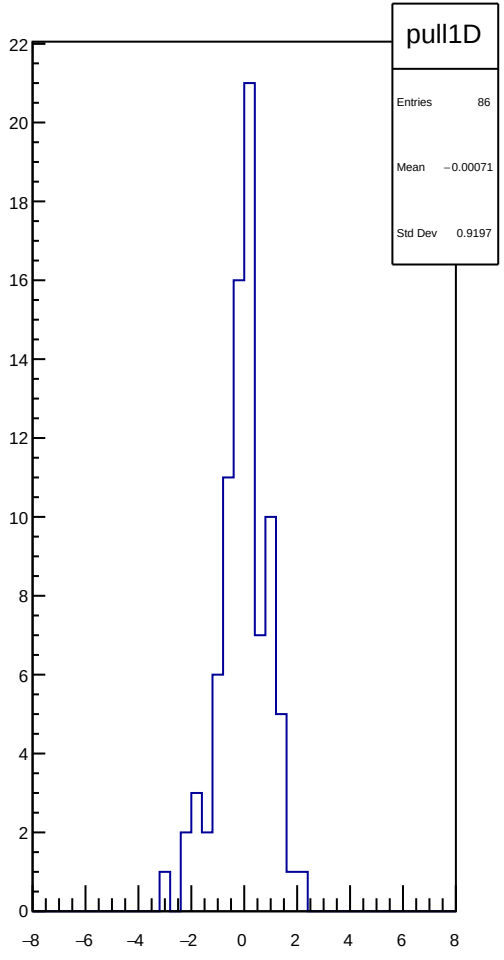

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 3.632e+04 / 85
p0 1.285e+04 ± 9.999
18000
17000
16000
15000
14000
13000
12000
11000
10000

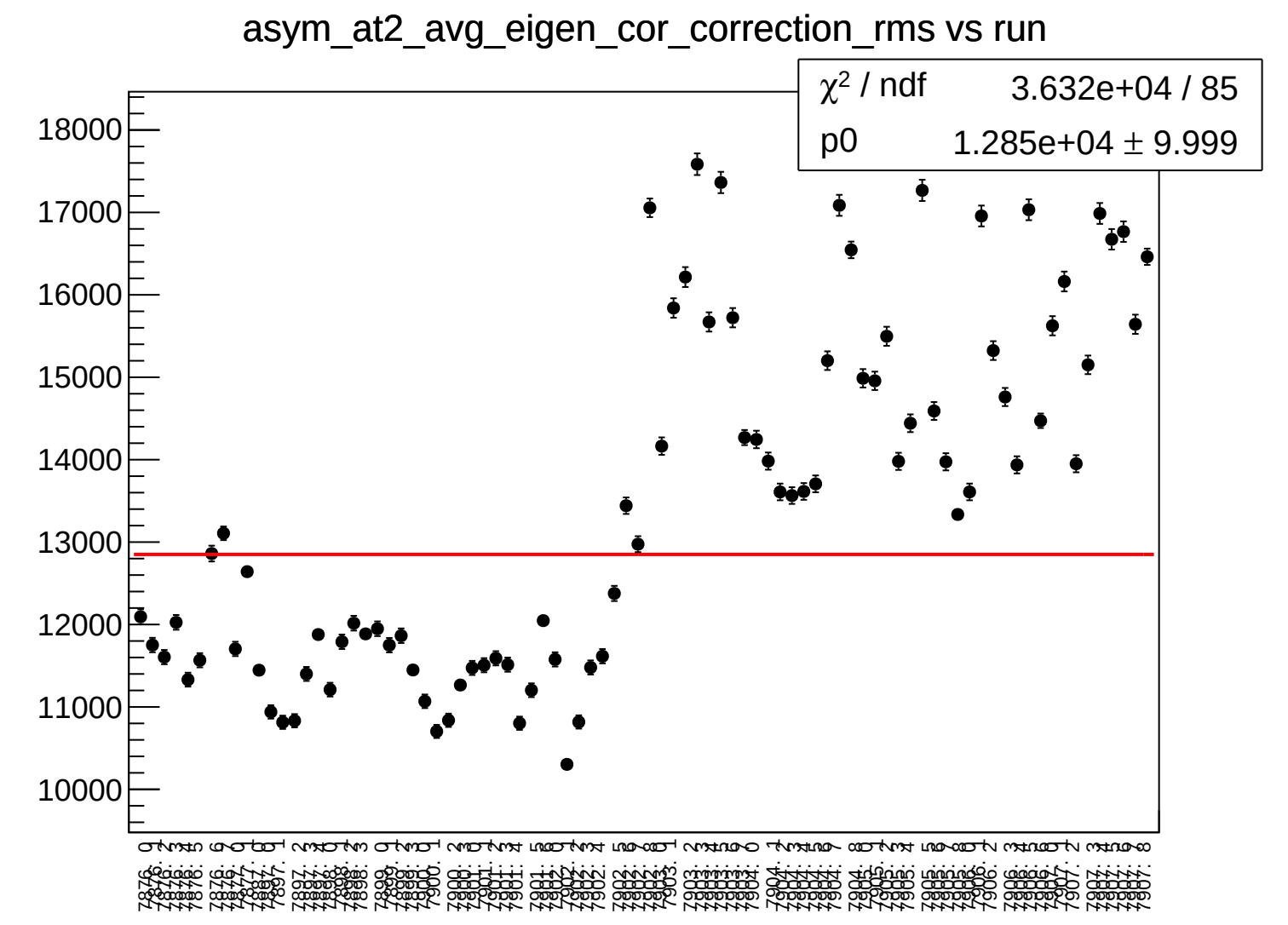

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 74.45 / 85
p0 1286 ± 2021
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 42.13
Std Dev 129.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

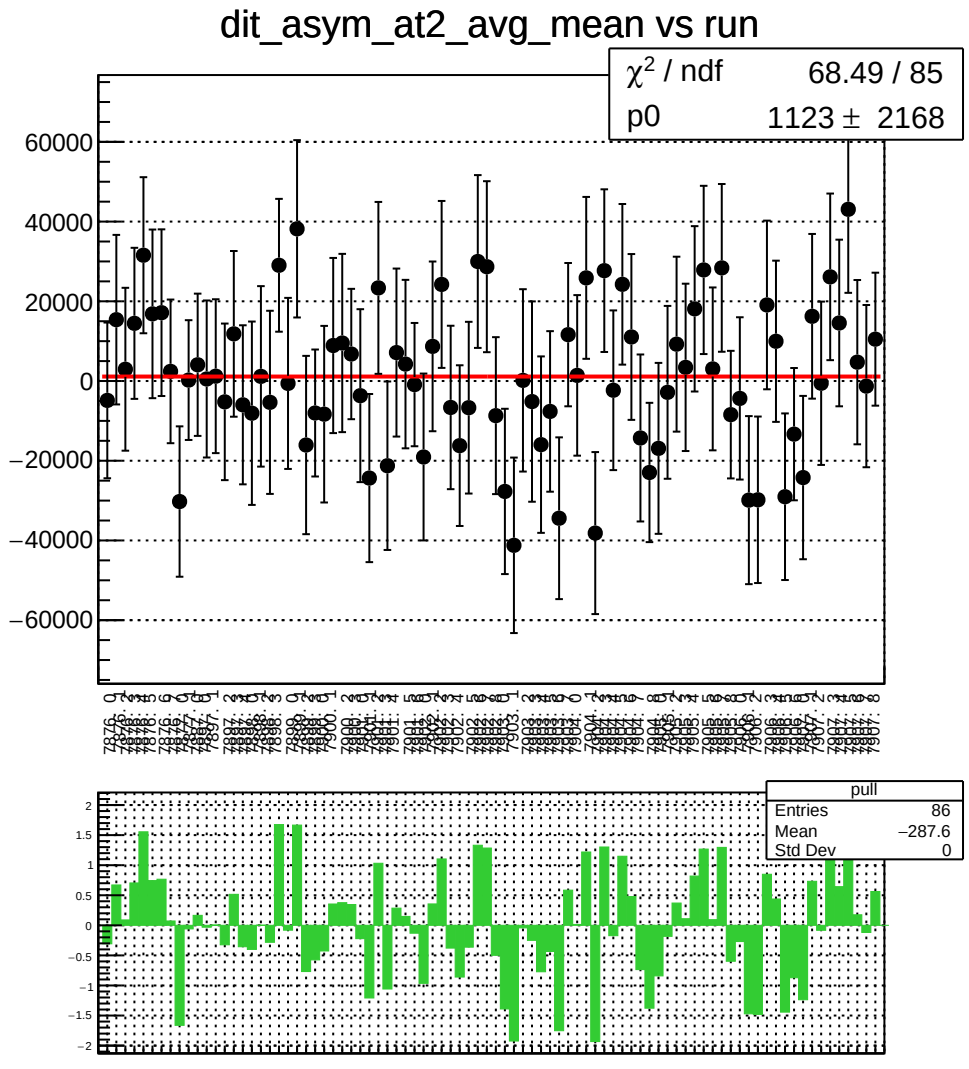

pull1D
Entries 86
Mean 0.006175
Std Dev 0.9304
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

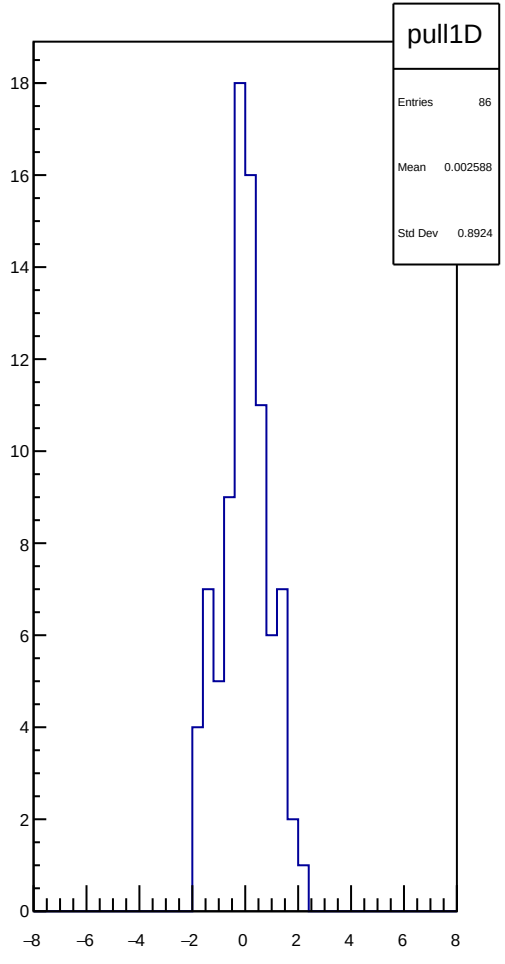

eigen_cor_asym_at2_avg_rms vs run
χ^2 / ndf 2860 / 85
p0 1855 ± 1.429
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

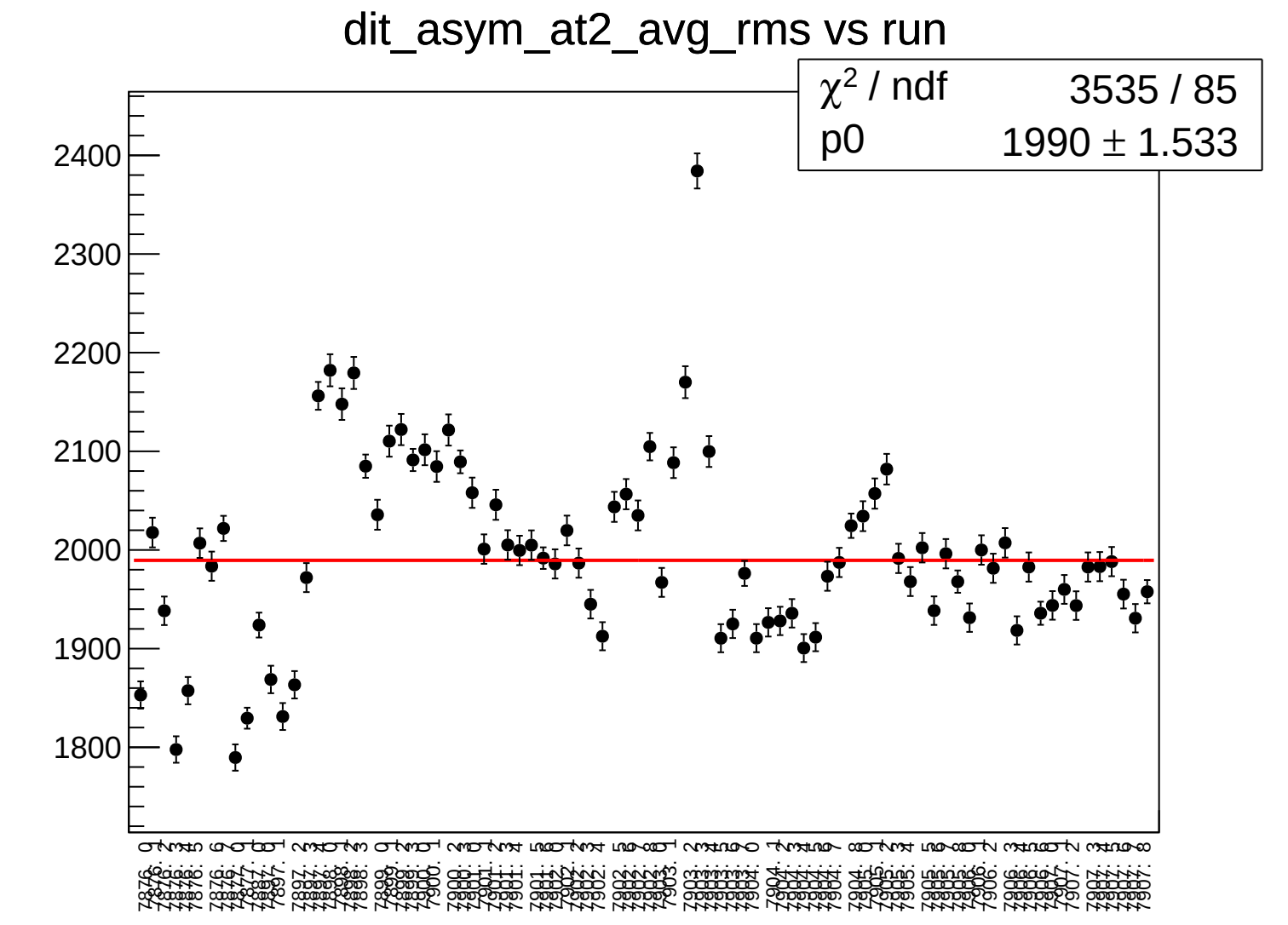

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 72.75 / 85
p0 1.966e+04 ± 1.414e+04
pull
Entries 86
Mean 1523
Std Dev 0
2
1
0
−1
−2
−3

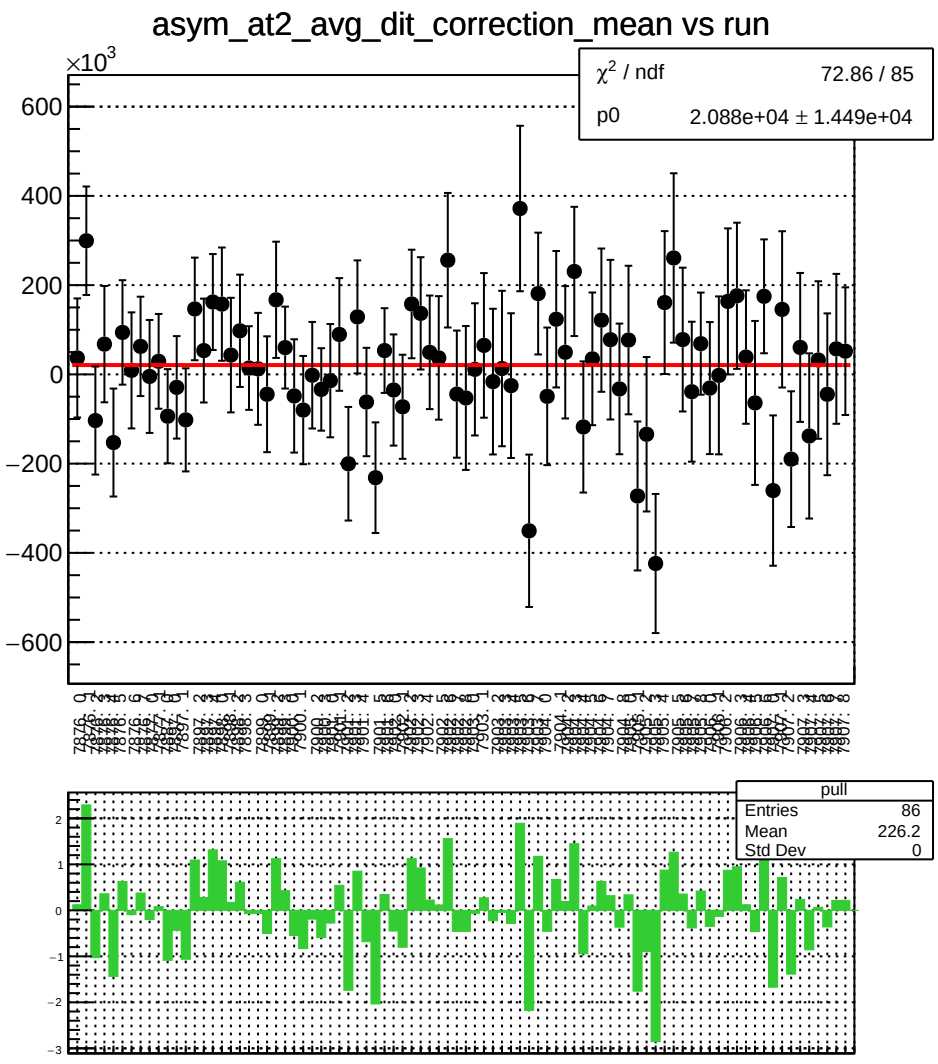

pull1D
Entries 86
Mean −0.00071
Std Dev 0.9197
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

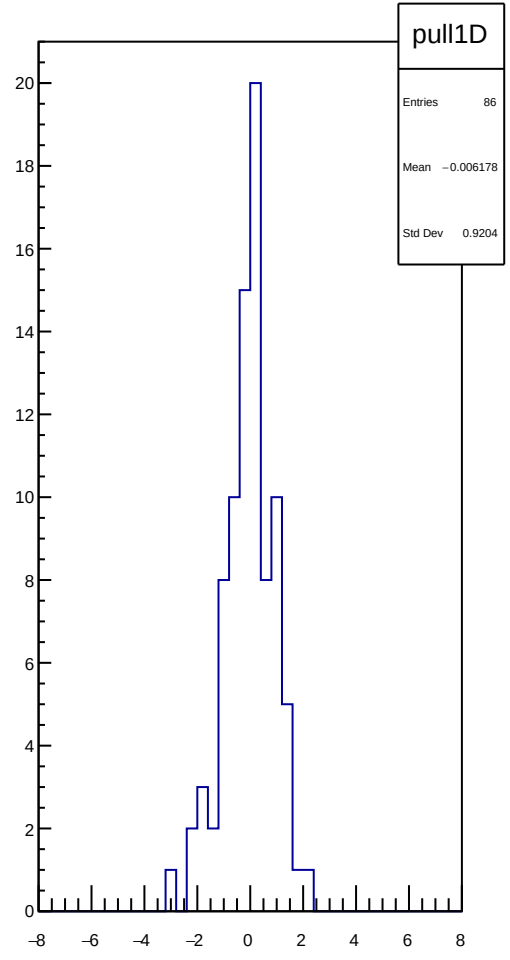

asym_at2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3.632e+04 / 85
p0 1.285e+04 ± 9.999
18000
17000
16000
15000
14000
13000
12000
11000
10000

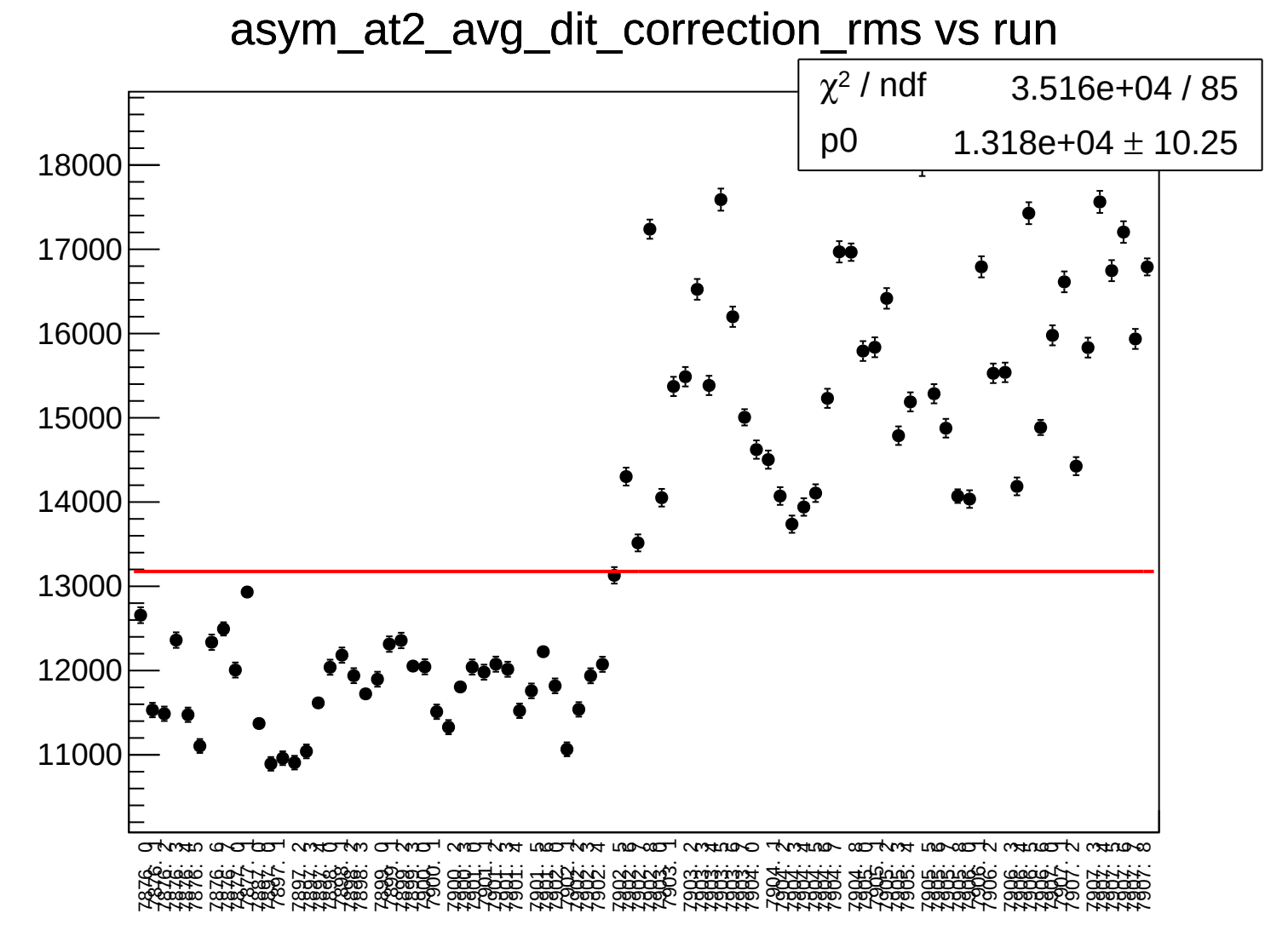

dit_asym_at2_avg_mean vs run
χ² / ndf 68.49 / 85
p0 1123 ± 2168
pull
Entries 86
Mean −287.6
Std Dev 0

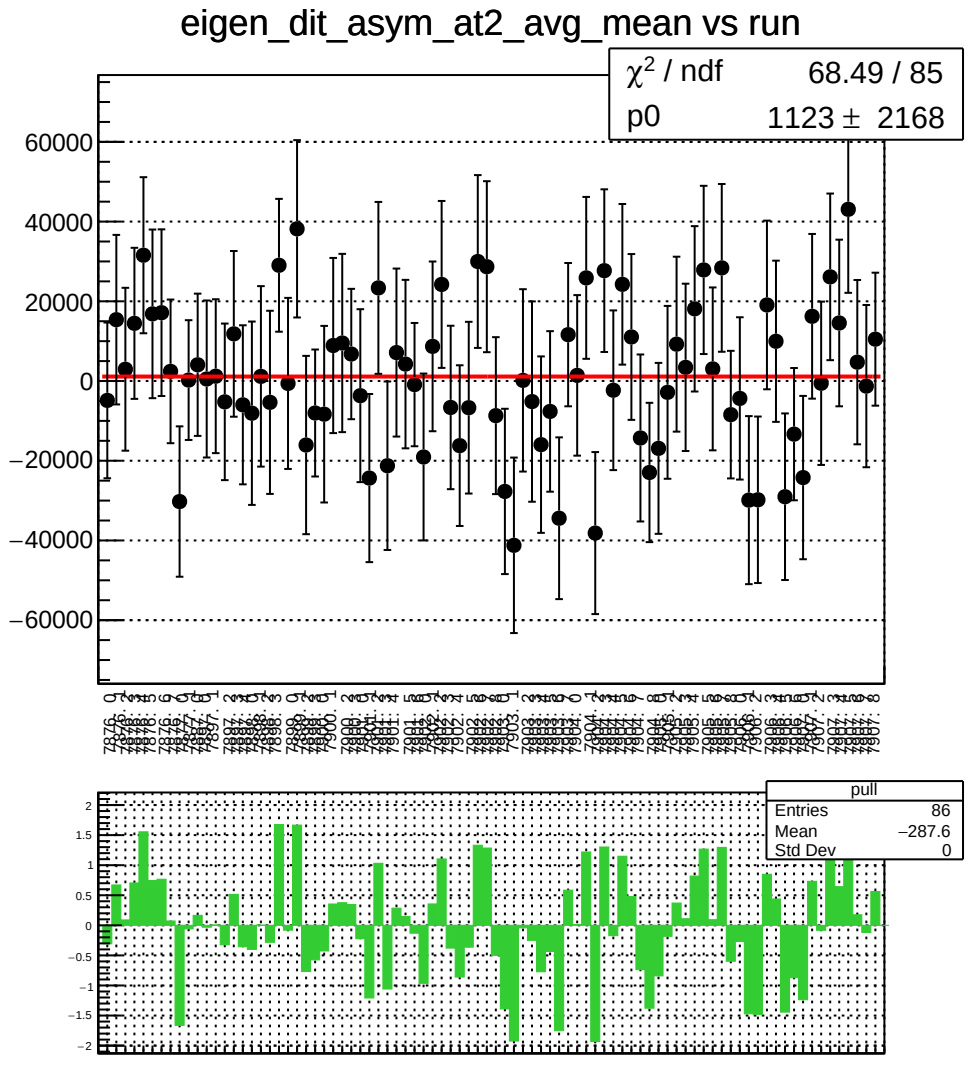

pull1D
Entries 86
Mean 0.002588
Std Dev 0.8924

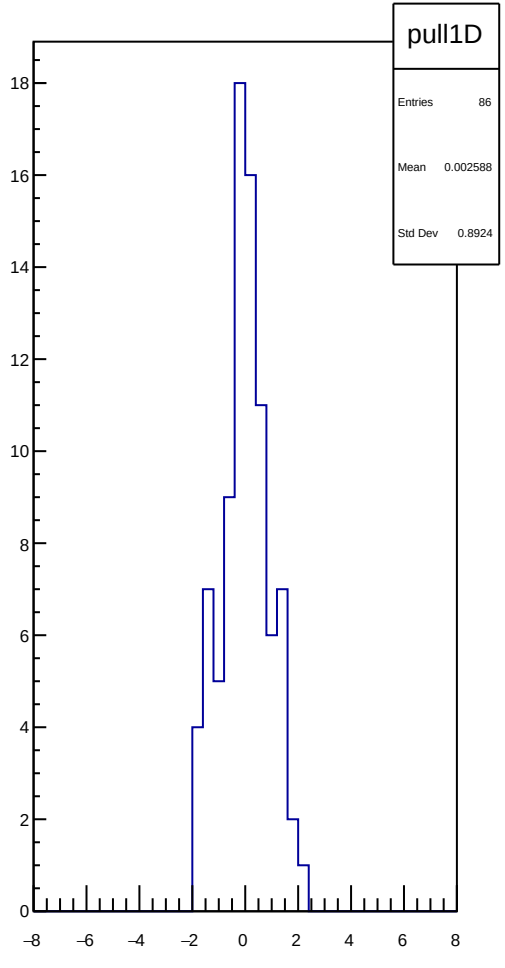

dit_asym_at2_avg_rms vs run
χ^2 / ndf 3535 / 85
p0 1990 ± 1.533
2400
2300
2200
2100
2000
1900
1800

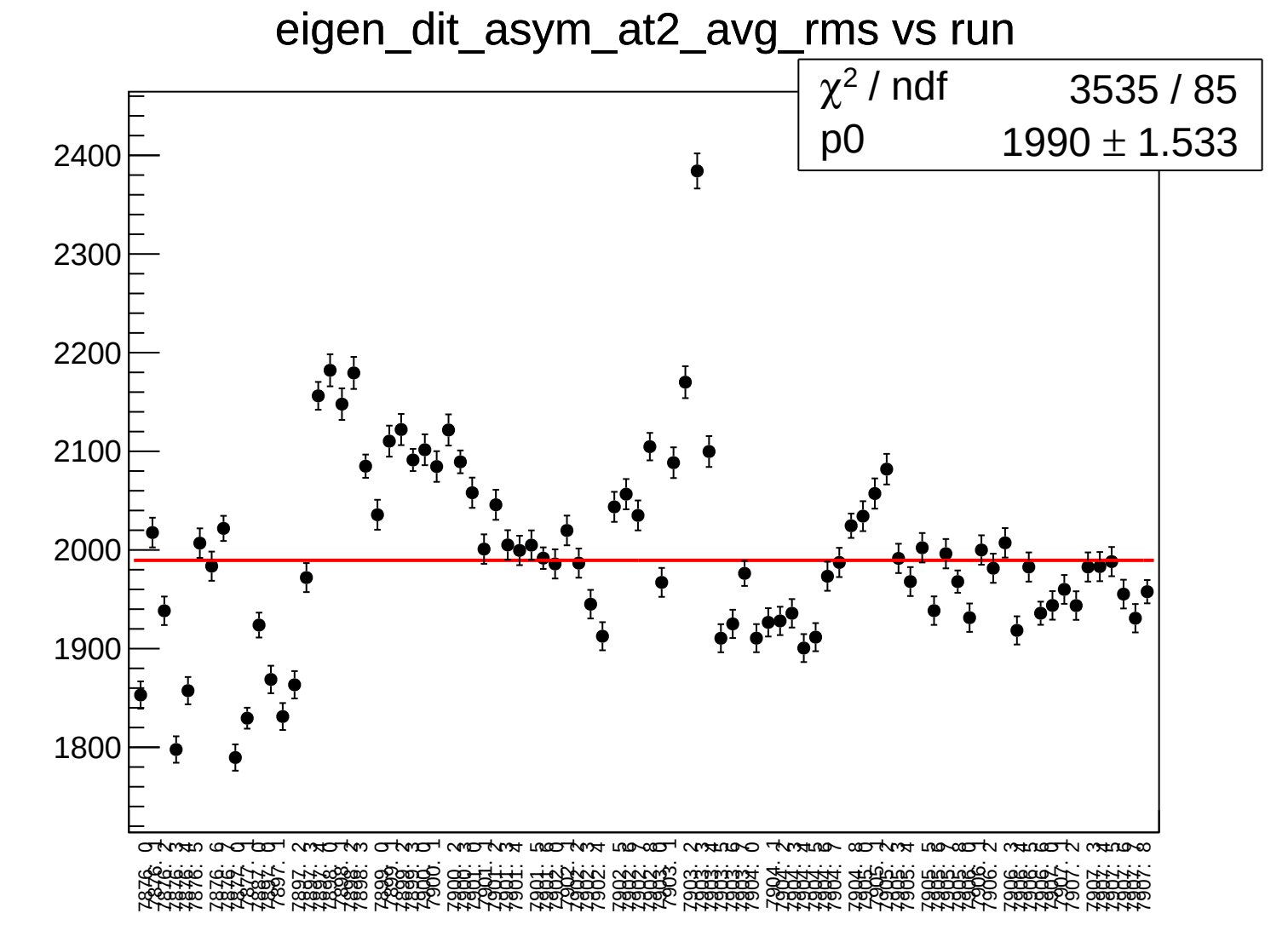

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.86 / 85
p0 2.088e+04 ± 1.449e+04
pull
Entries 86
Mean 226.2
Std Dev 0

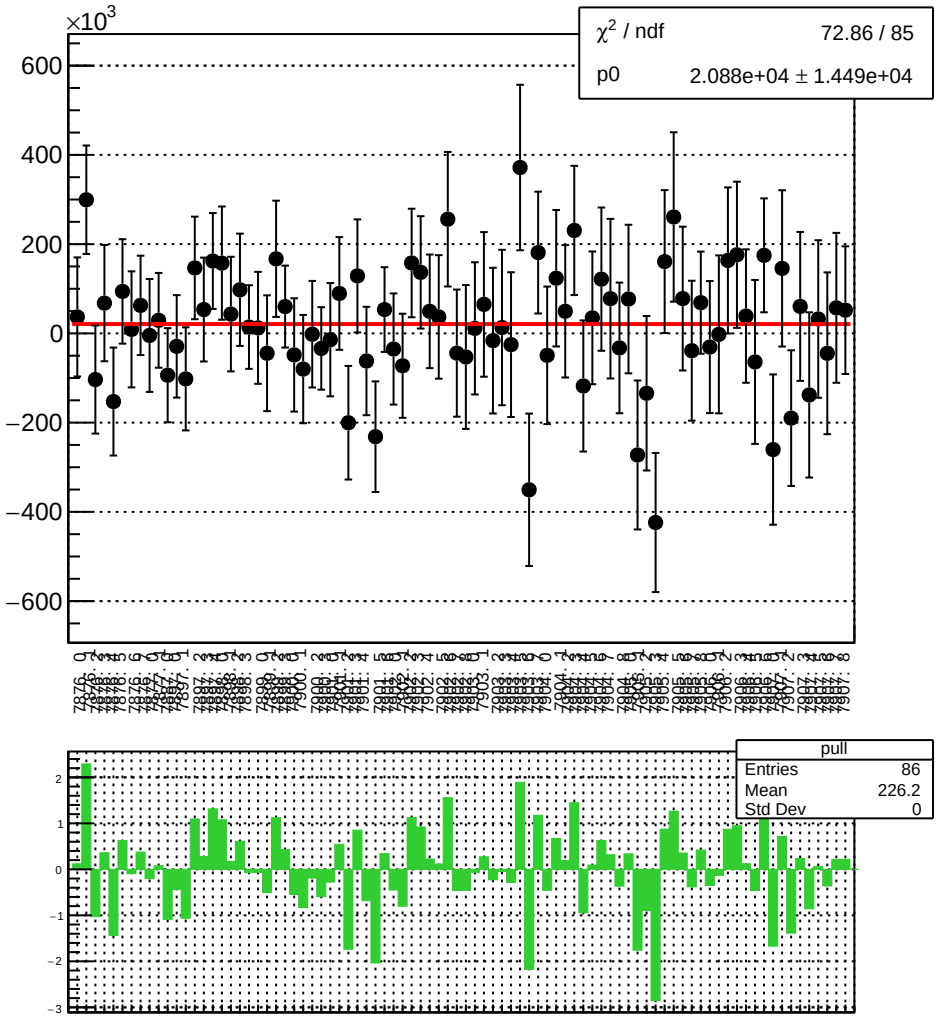

pull1D
Entries 86
Mean −0.006178
Std Dev 0.9204

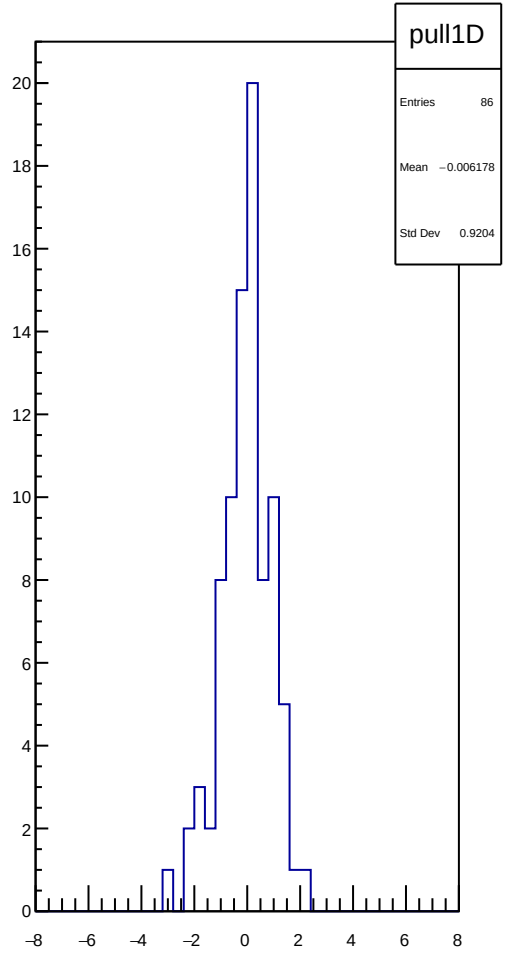

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 3.516e+04 / 85
p0 1.318e+04 ± 10.25
18000
17000
16000
15000
14000
13000
12000
11000

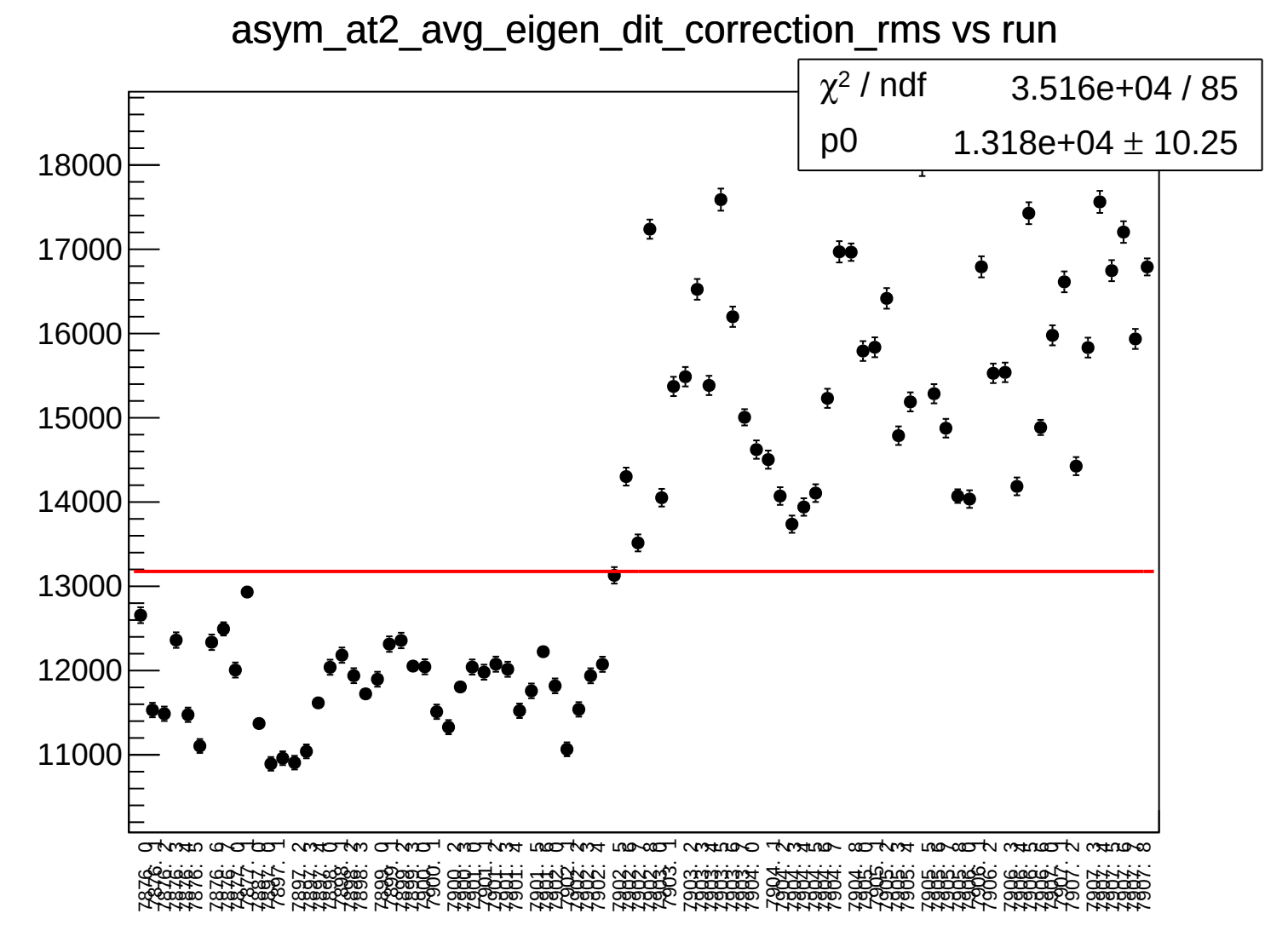

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 68.49 / 85
p0 1123 ± 2168
pull
Entries 86
Mean −287.6
Std Dev 0

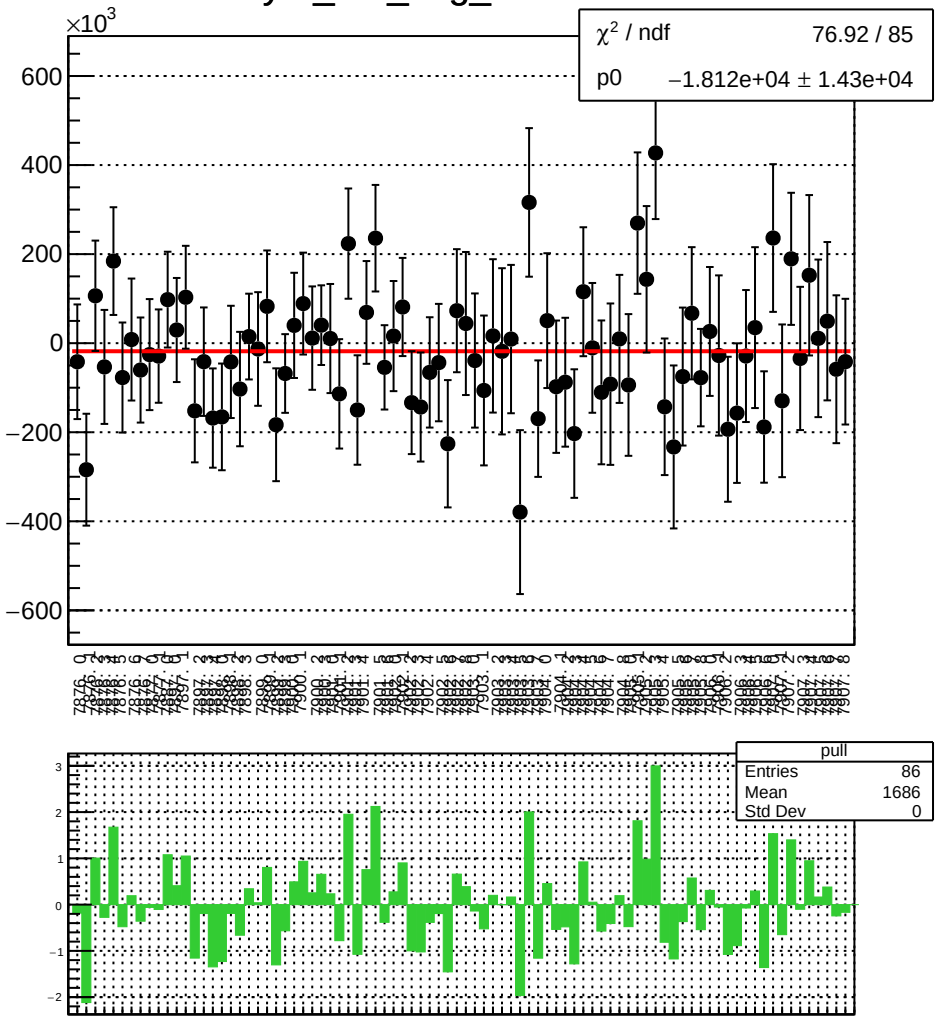

pull1D
Entries 86
Mean 0.002588
Std Dev 0.8924

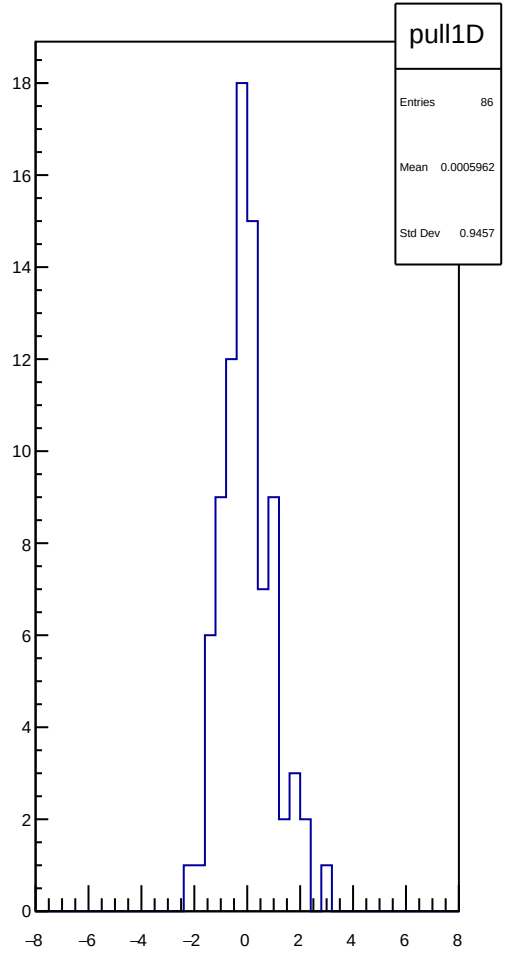

eigen_dit_asym_at2_avg_rms vs run
χ^2 / ndf 3535 / 85
p0 1990 ± 1.533
2400
2300
2200
2100
2000
1900
1800

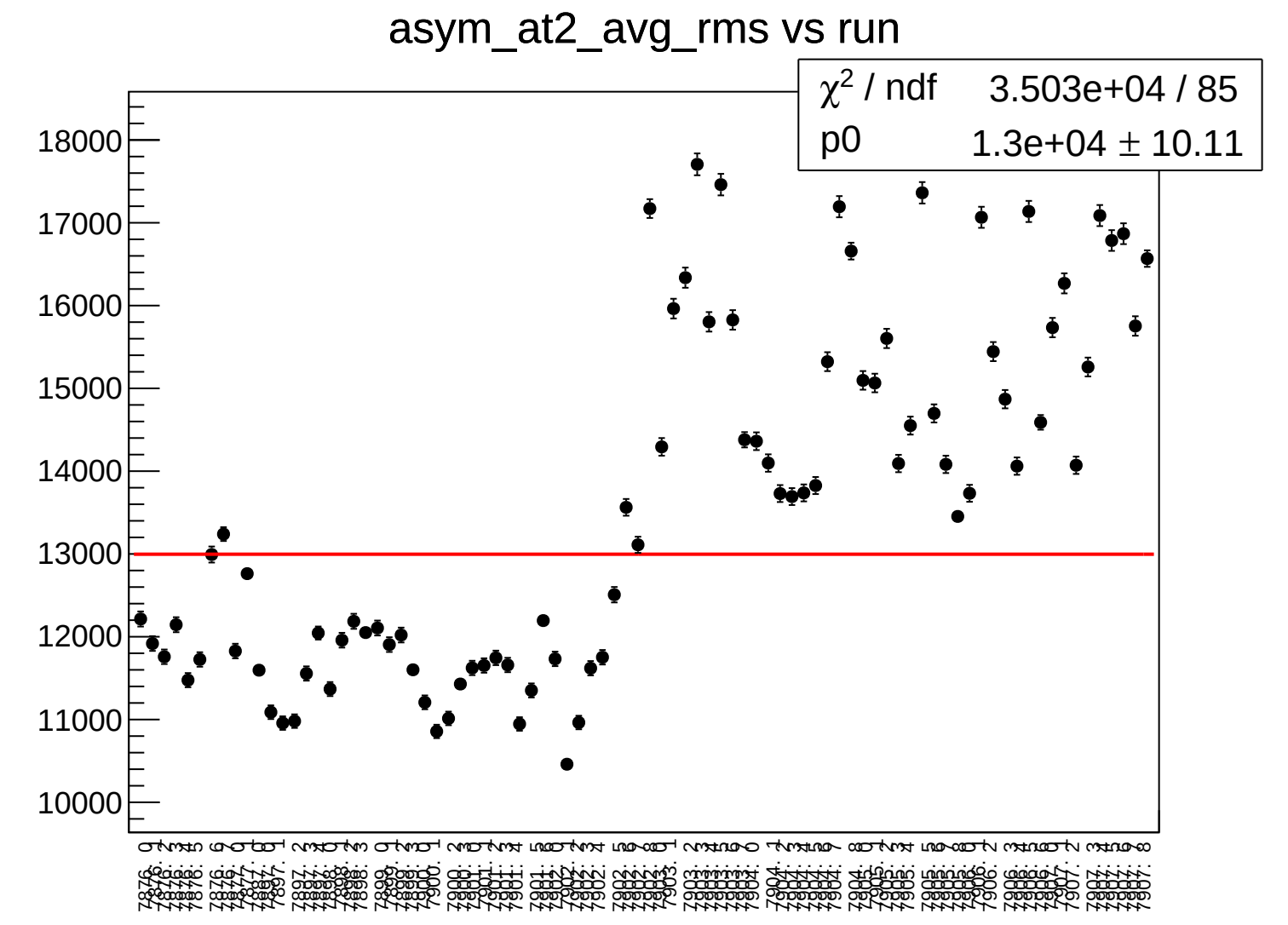

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.86 / 85
p0 2.088e+04 ± 1.449e+04
pull
Entries 86
Mean 226.2
Std Dev 0

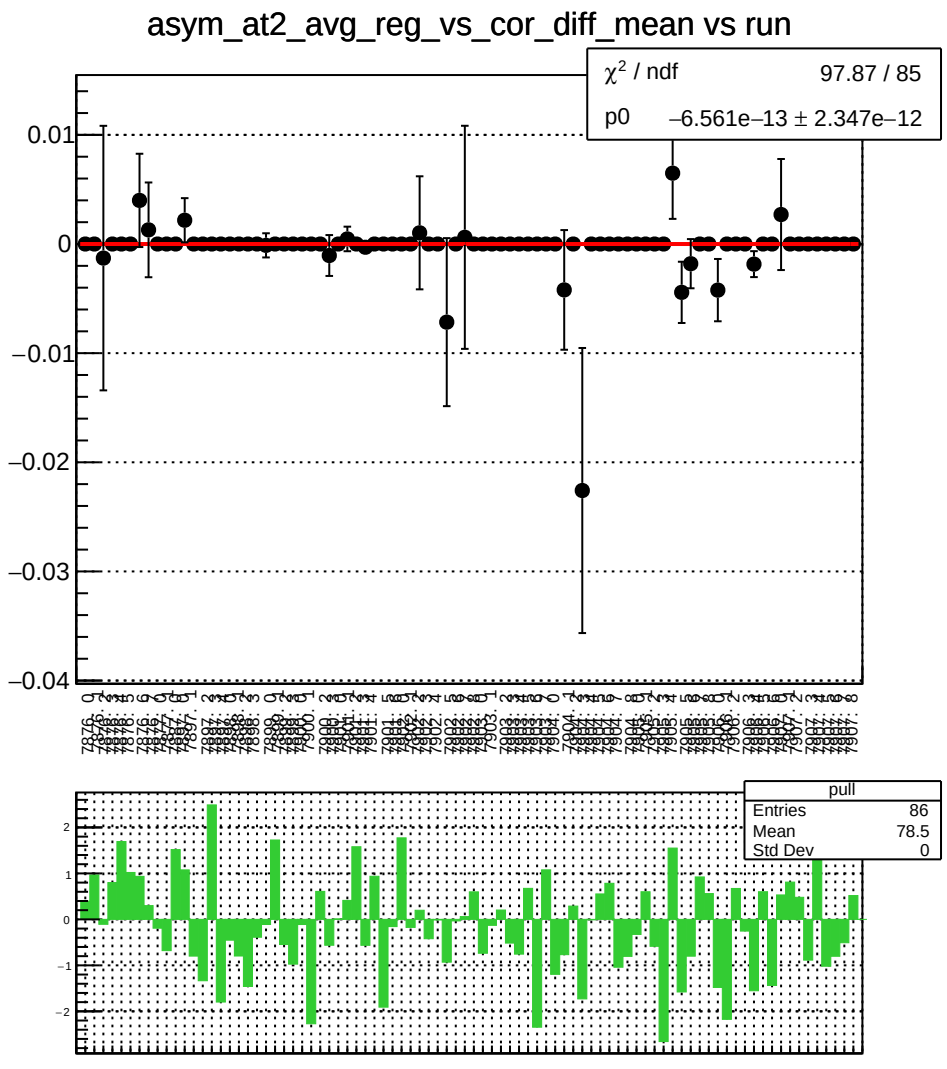

pull1D
Entries 86
Mean −0.006178
Std Dev 0.9204

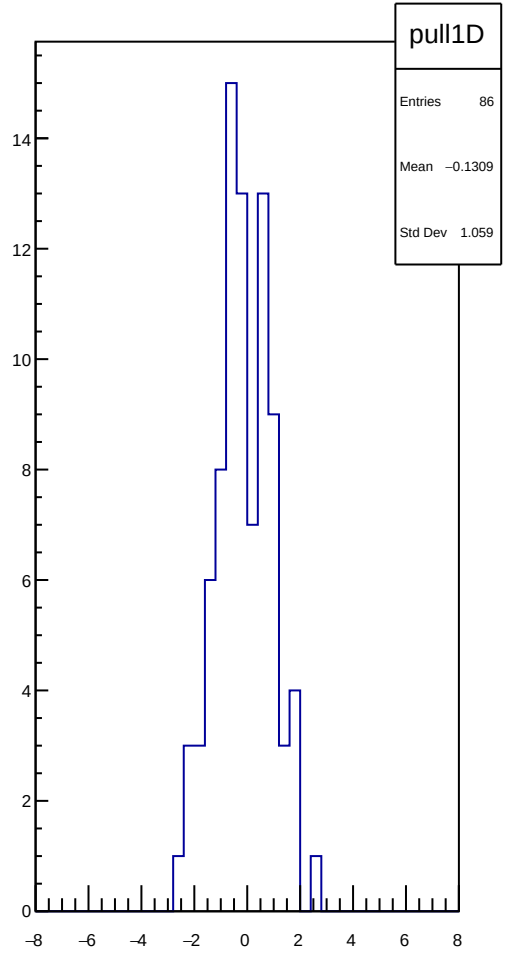

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.516e+04 / 85
p0 1.318e+04 ± 10.25
18000
17000
16000
15000
14000
13000
12000
11000

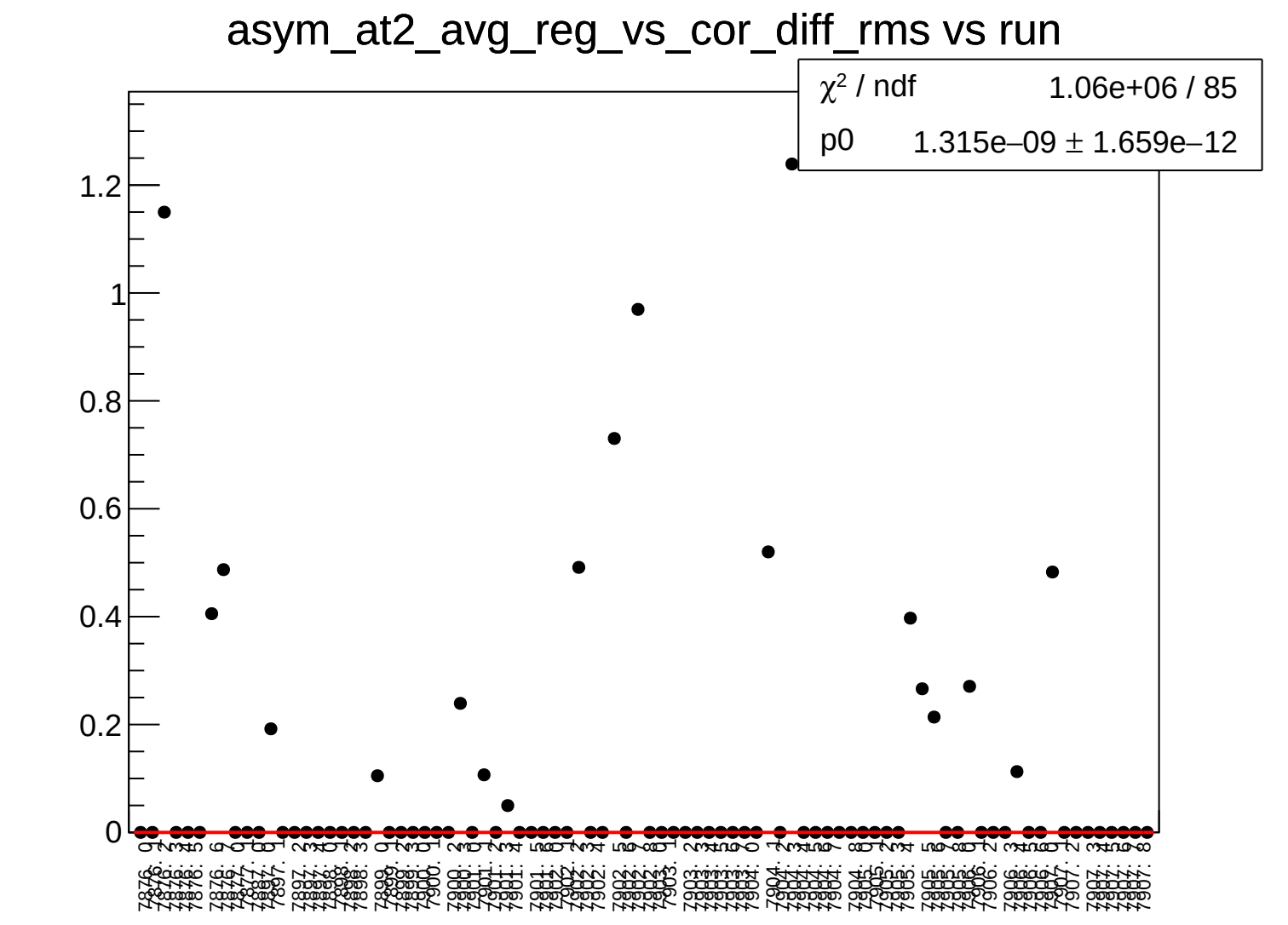

asym_at2_avg_mean vs run
×10^3
χ² / ndf 76.92 / 85
p0 −1.812e+04 ± 1.43e+04
pull
Entries 86
Mean 1686
Std Dev 0

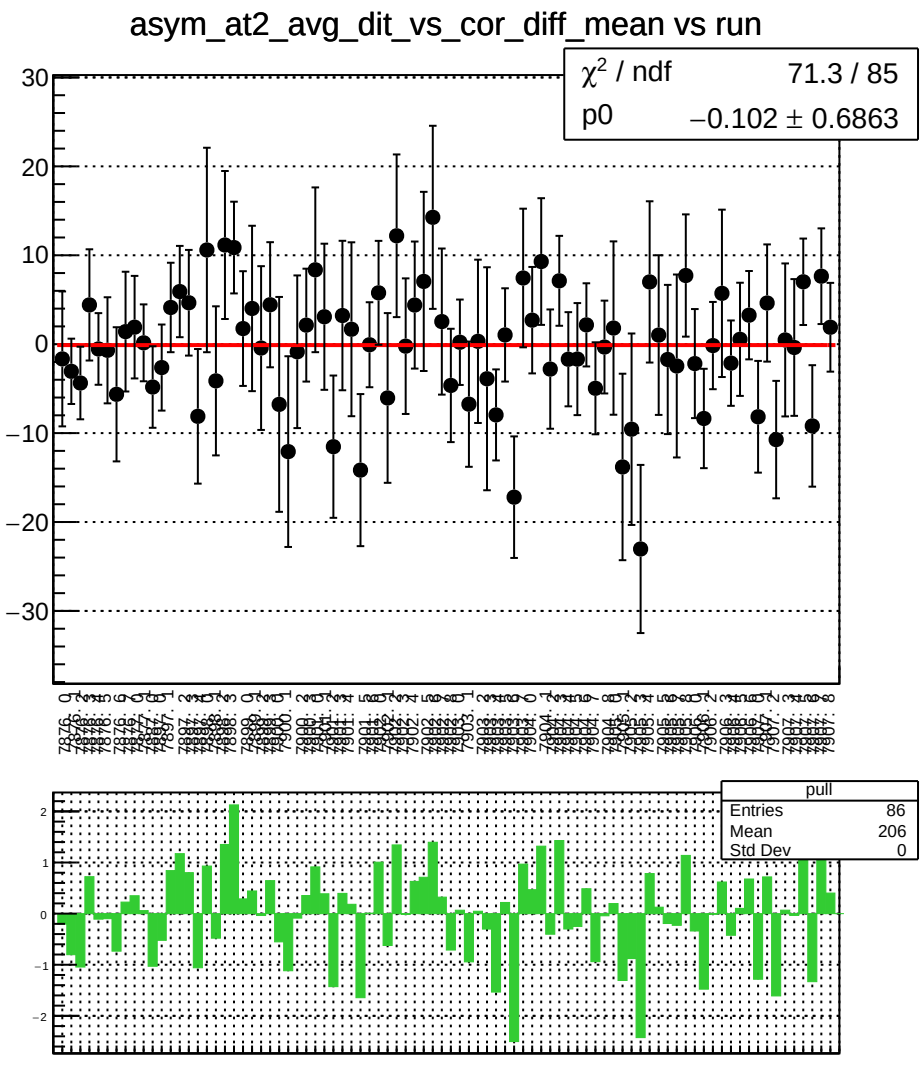

pull1D
Entries 86
Mean 0.0005962
Std Dev 0.9457

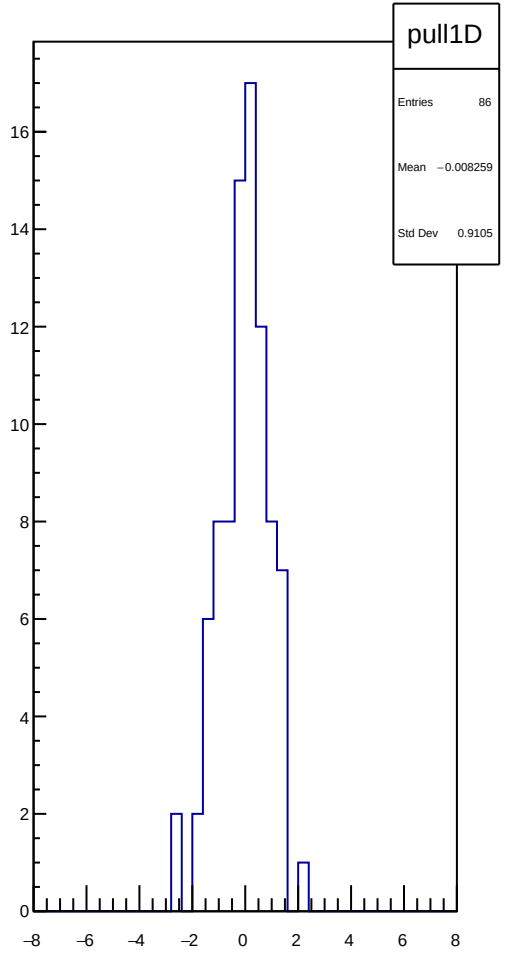

asym_at2_avg_rms vs run
χ^2 / ndf 3.503e+04 / 85
p0 1.3e+04 ± 10.11
18000
17000
16000
15000
14000
13000
12000
11000
10000

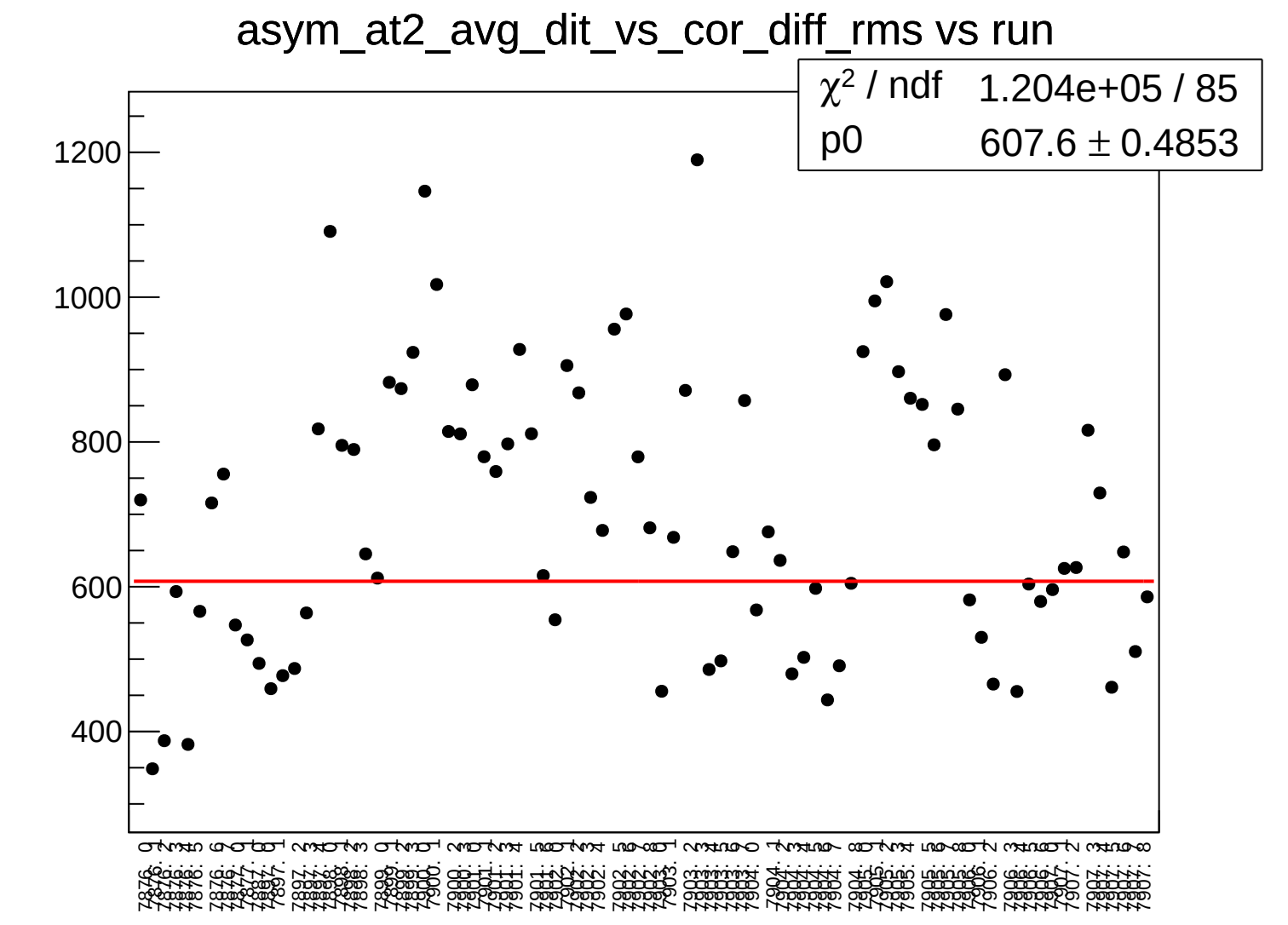

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.87 / 85
p0 −6.561e−13 ± 2.347e−12
pull
Entries 86
Mean 78.5
Std Dev 0

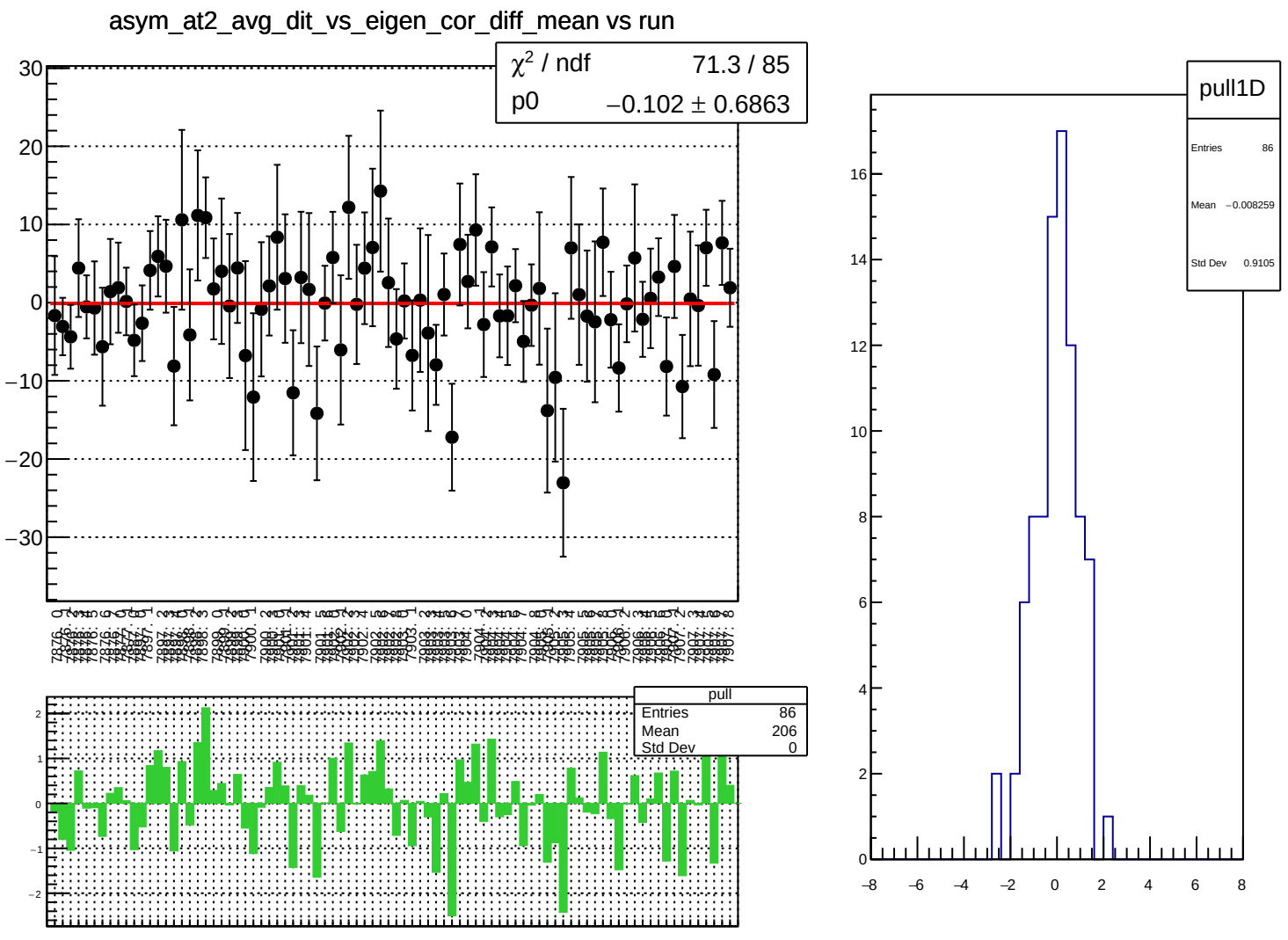

pull1D
Entries 86
Mean −0.1309
Std Dev 1.059

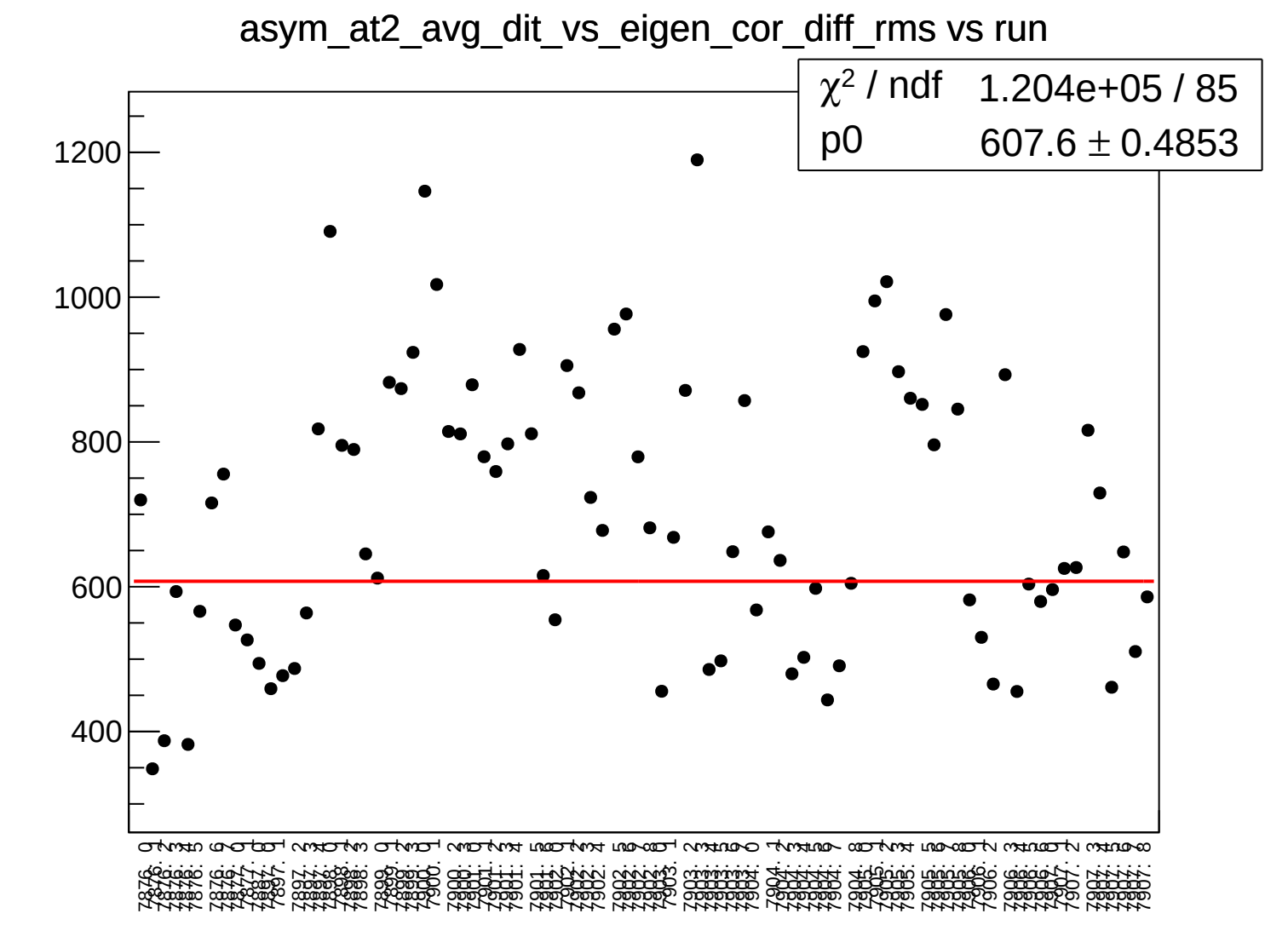

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 85
p0 1.315e−09 ± 1.659e−12
1.2
1
0.8
0.6
0.4
0.2
0

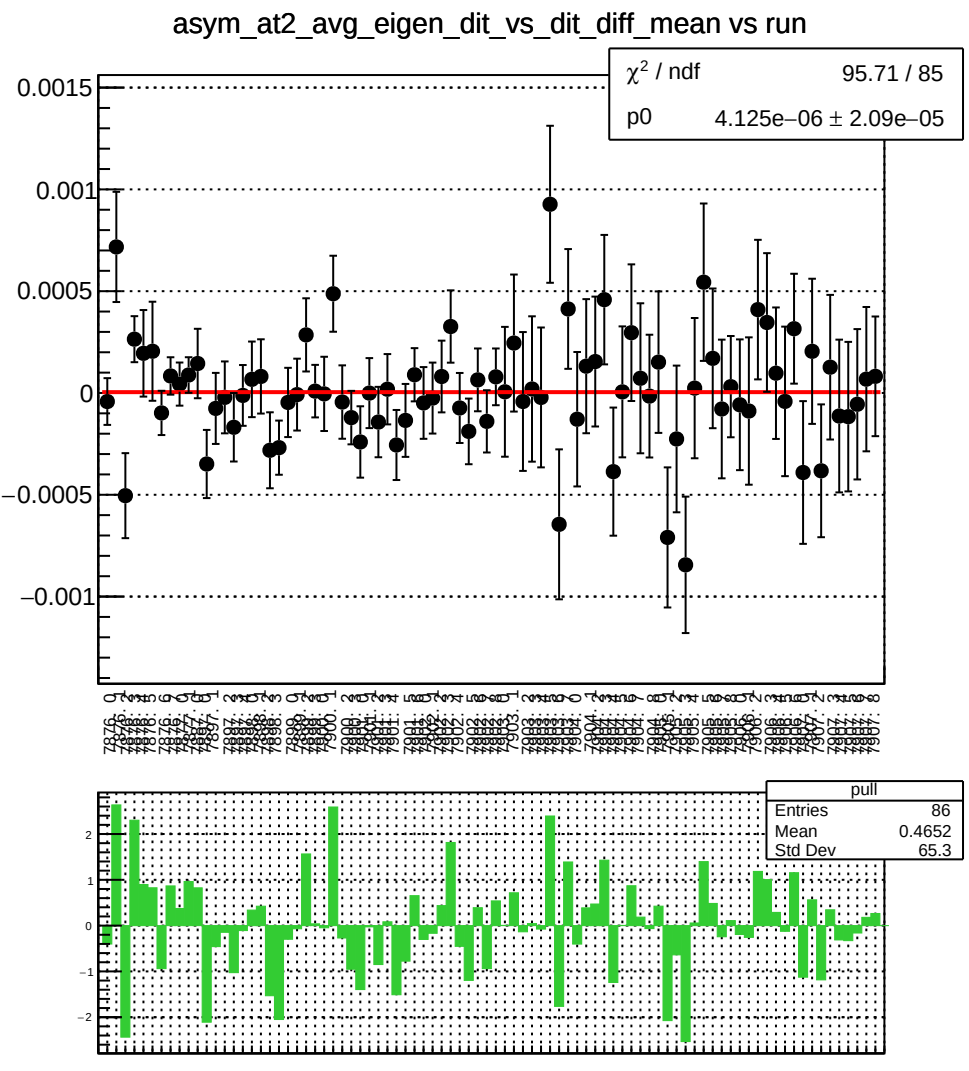

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.3 / 85
p0 −0.102 ± 0.6863
pull
Entries 86
Mean 206
Std Dev 0

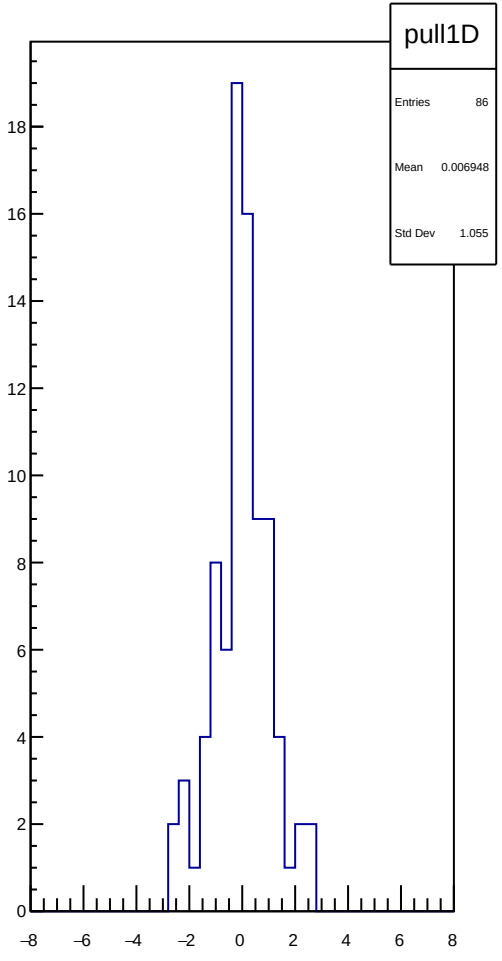

pull1D
Entries 86
Mean −0.008259
Std Dev 0.9105

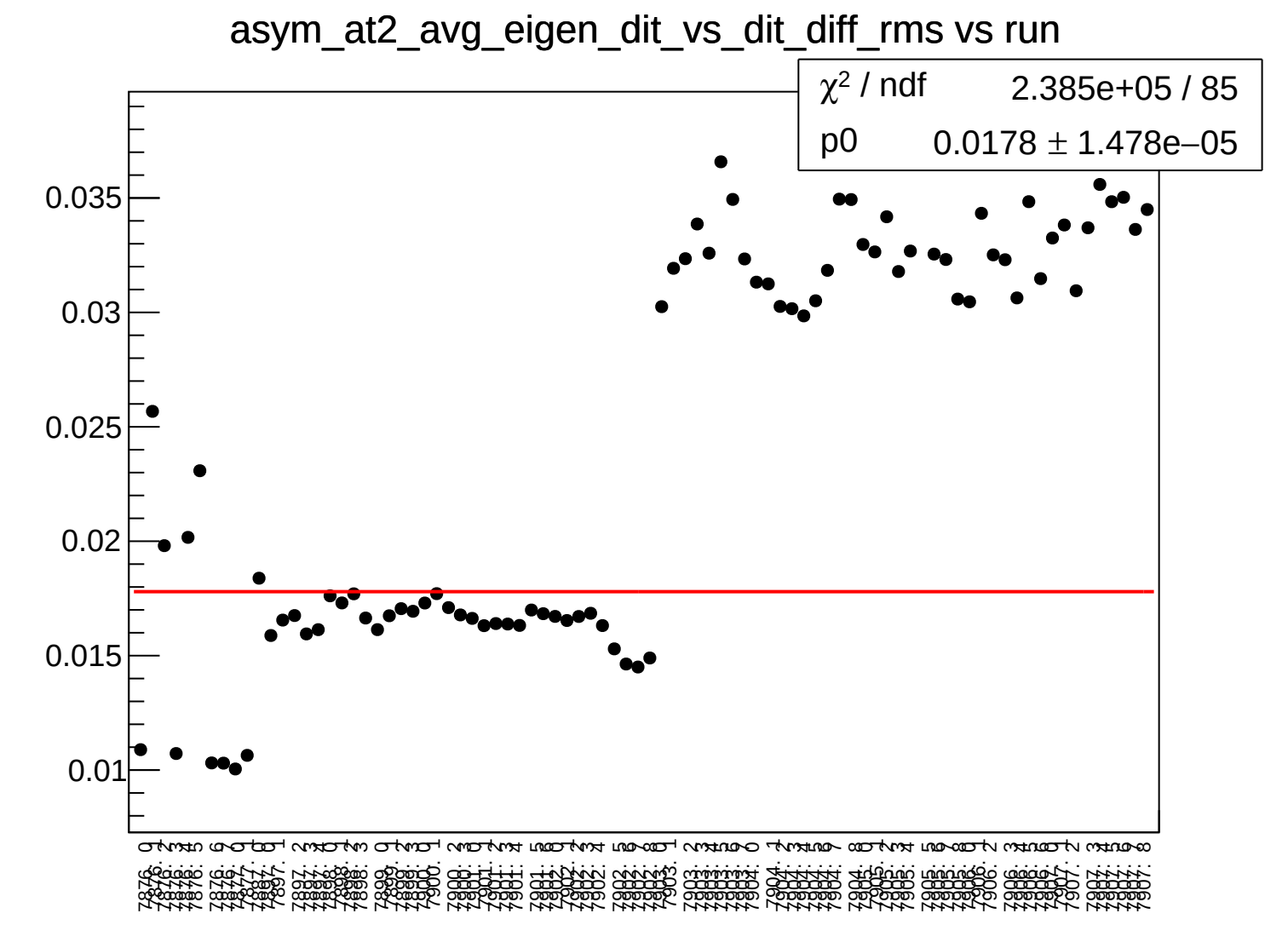

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 85
p0 607.6 ± 0.4853
1200
1000
800
600
400

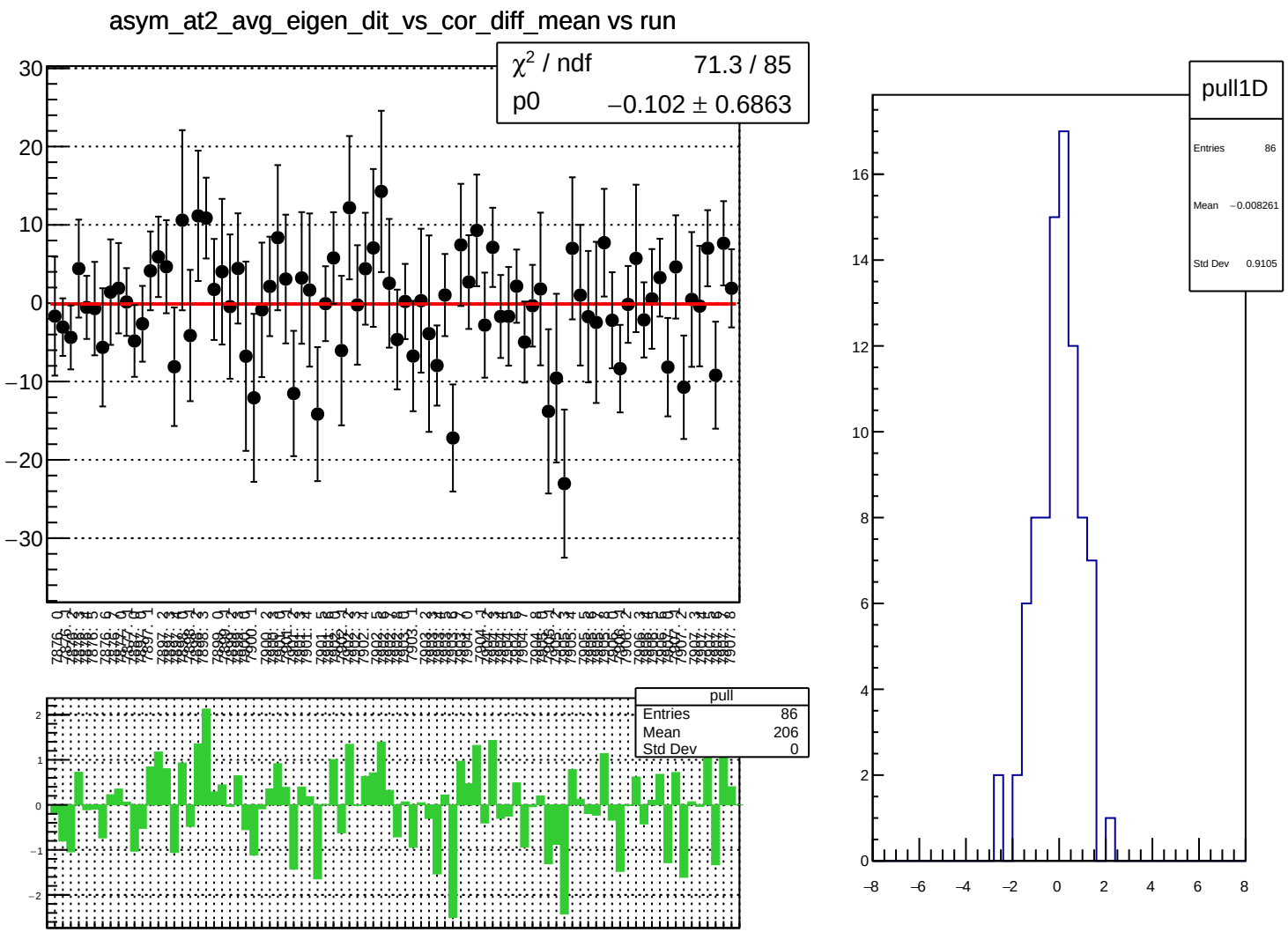

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.3 / 85
p0 −0.102 ± 0.6863
pull
Entries 86
Mean 206
Std Dev 0
pull1D
Entries 86
Mean −0.008259
Std Dev 0.9105

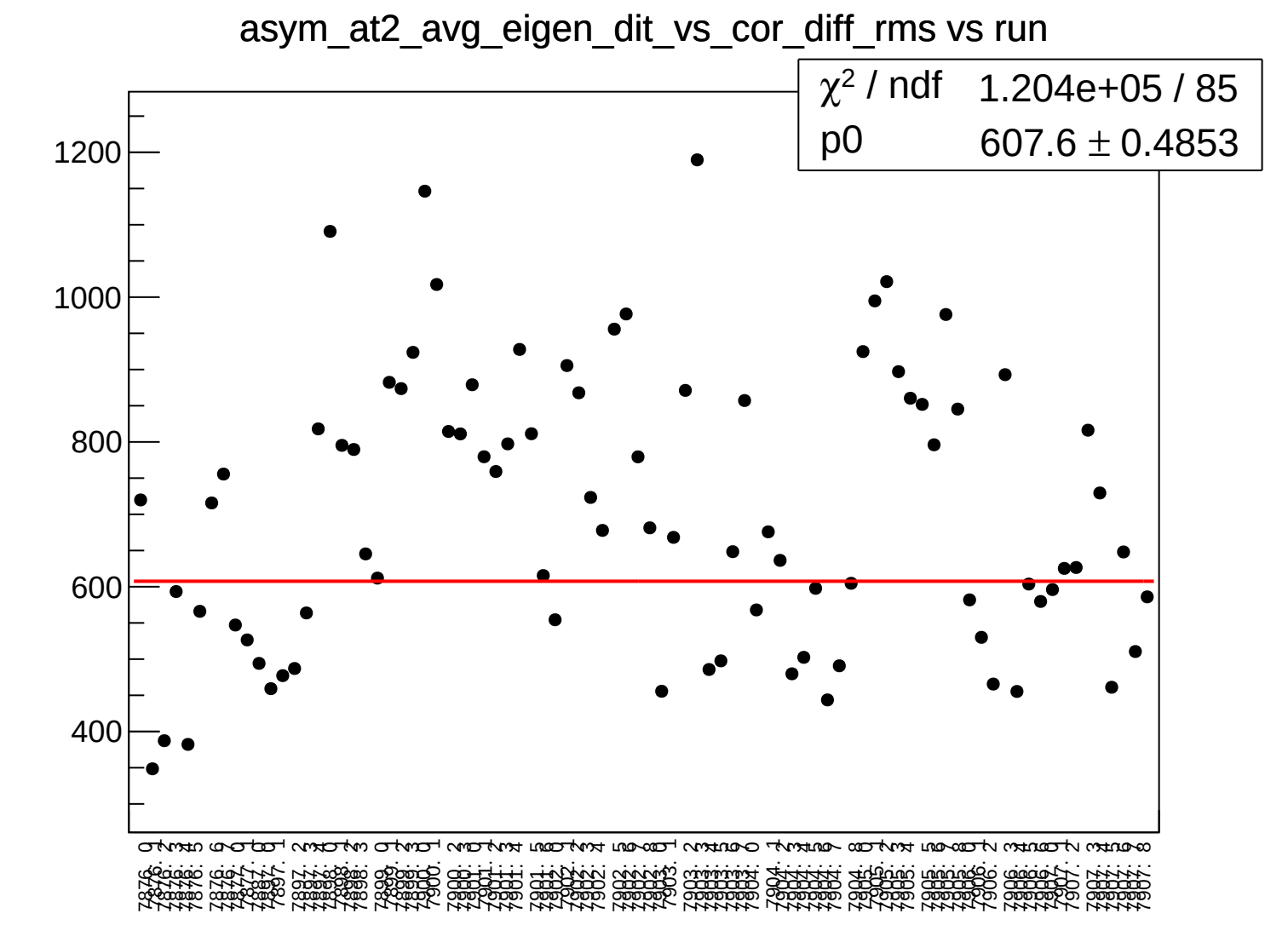

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 85
p0 607.6 ± 0.4853
1200
1000
800
600
400

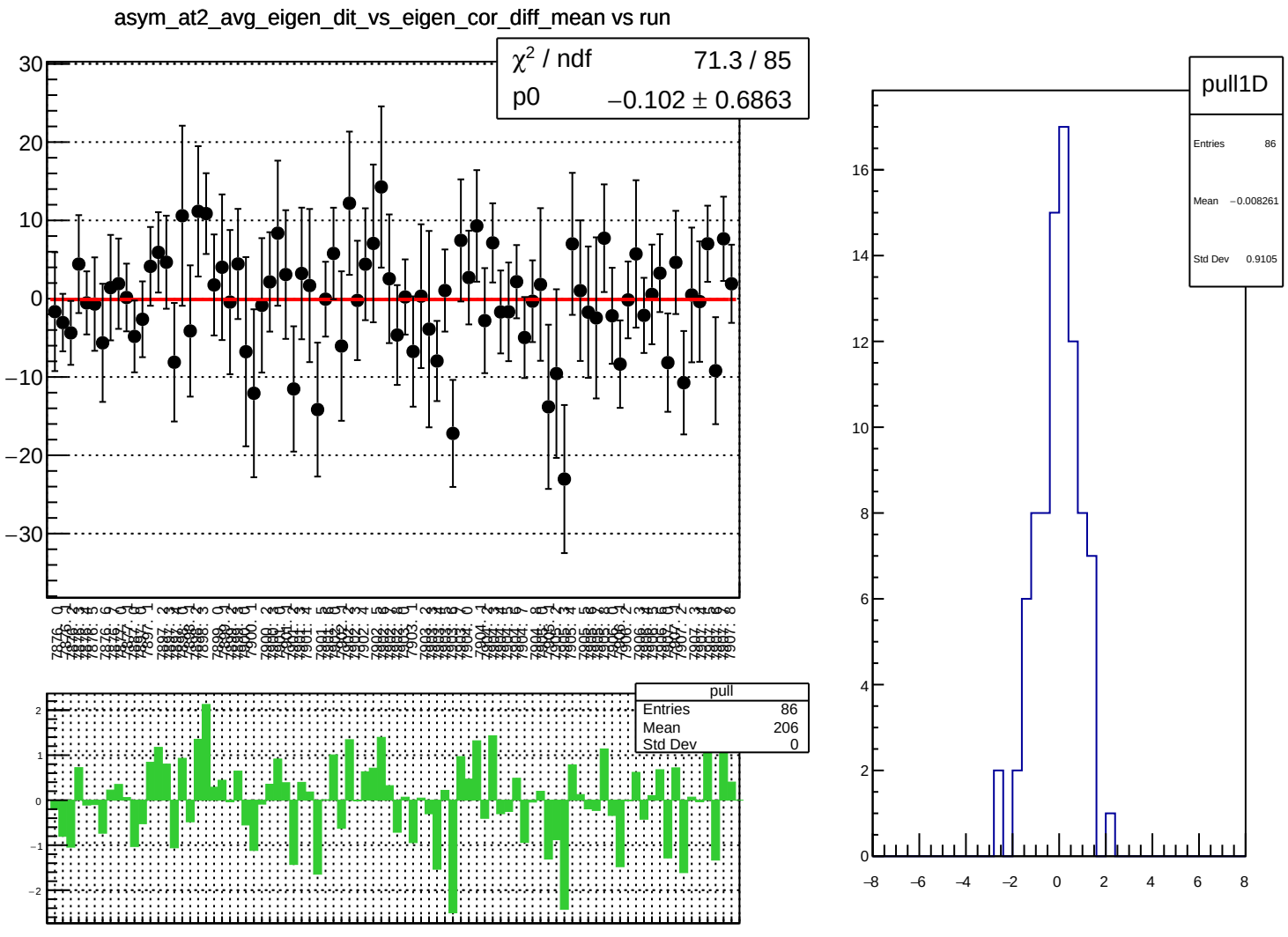

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 95.71 / 85
p0 4.125e−06 ± 2.09e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 0.4652
Std Dev 65.3
2
1
0
−1
−2

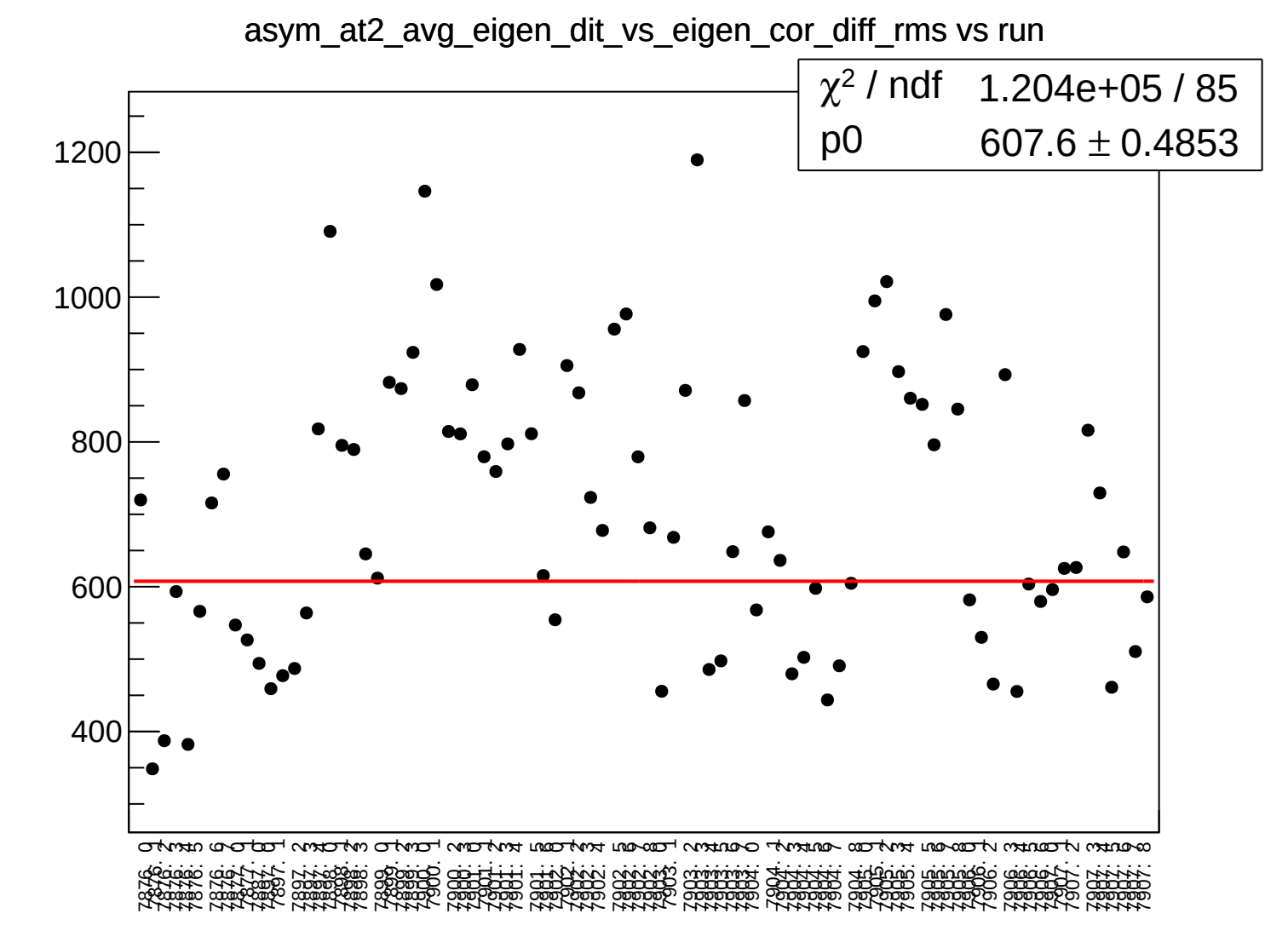

pull1D
Entries 86
Mean 0.006948
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

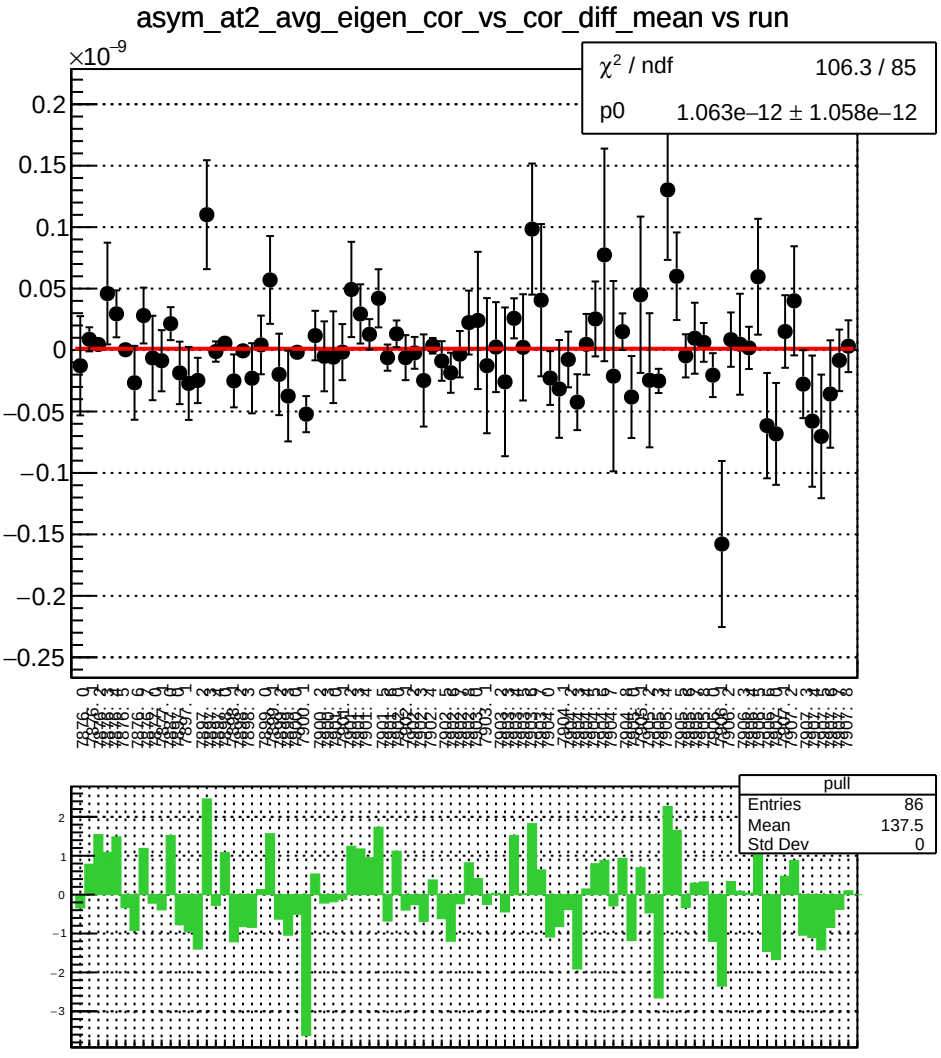

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.385e+05 / 85
p0 0.0178 ± 1.478e−05
0.035
0.03
0.025
0.02
0.015
0.01

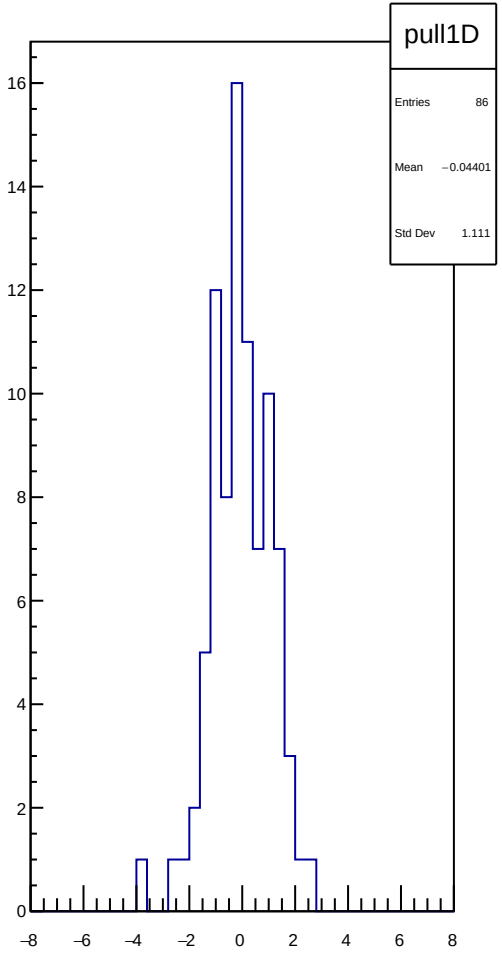

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.3 / 85
p0 −0.102 ± 0.6863
pull
Entries 86
Mean 206
Std Dev 0
pull1D
Entries 86
Mean −0.008261
Std Dev 0.9105

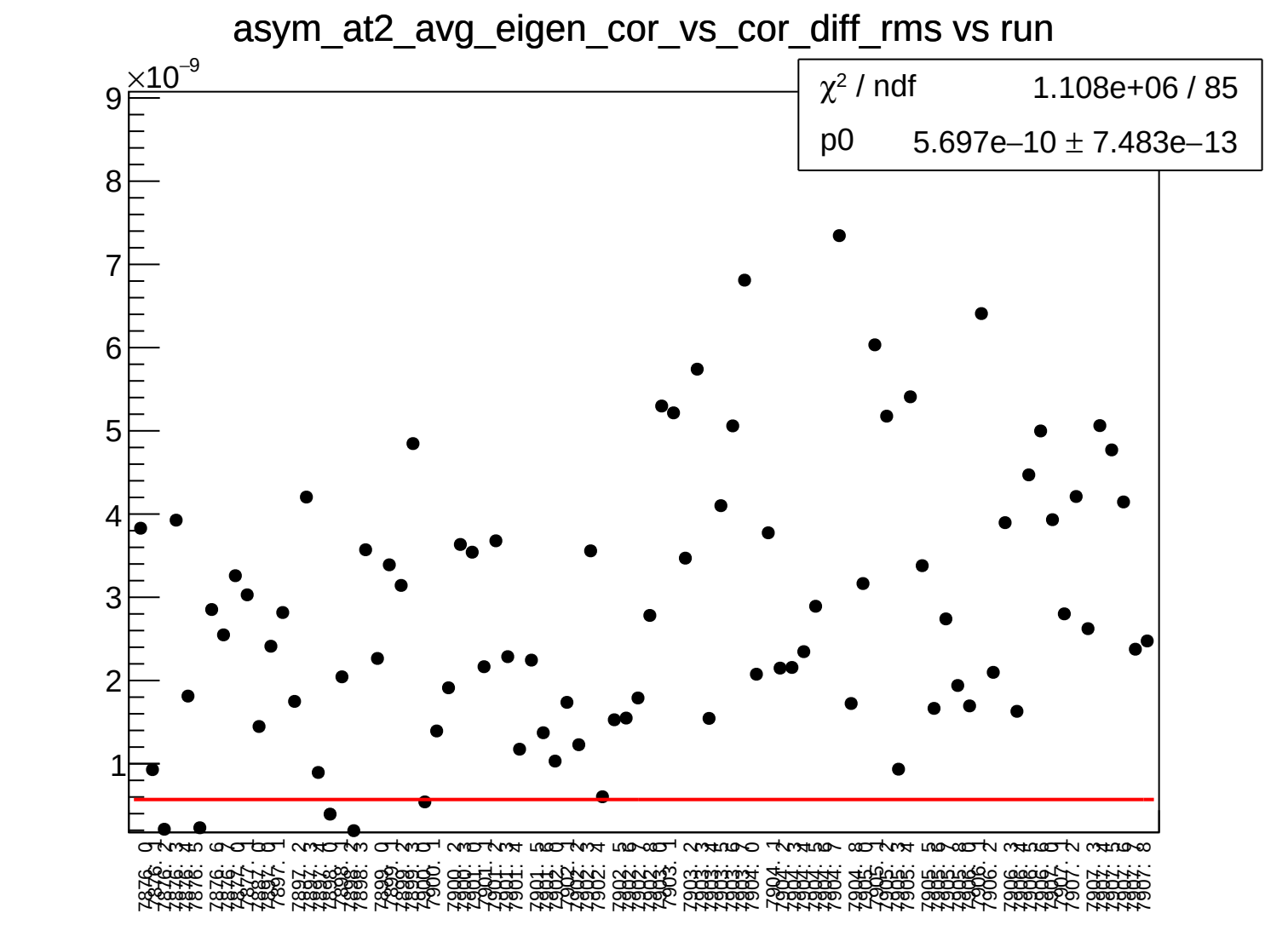

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 85
p0 607.6 ± 0.4853
1200
1000
800
600
400

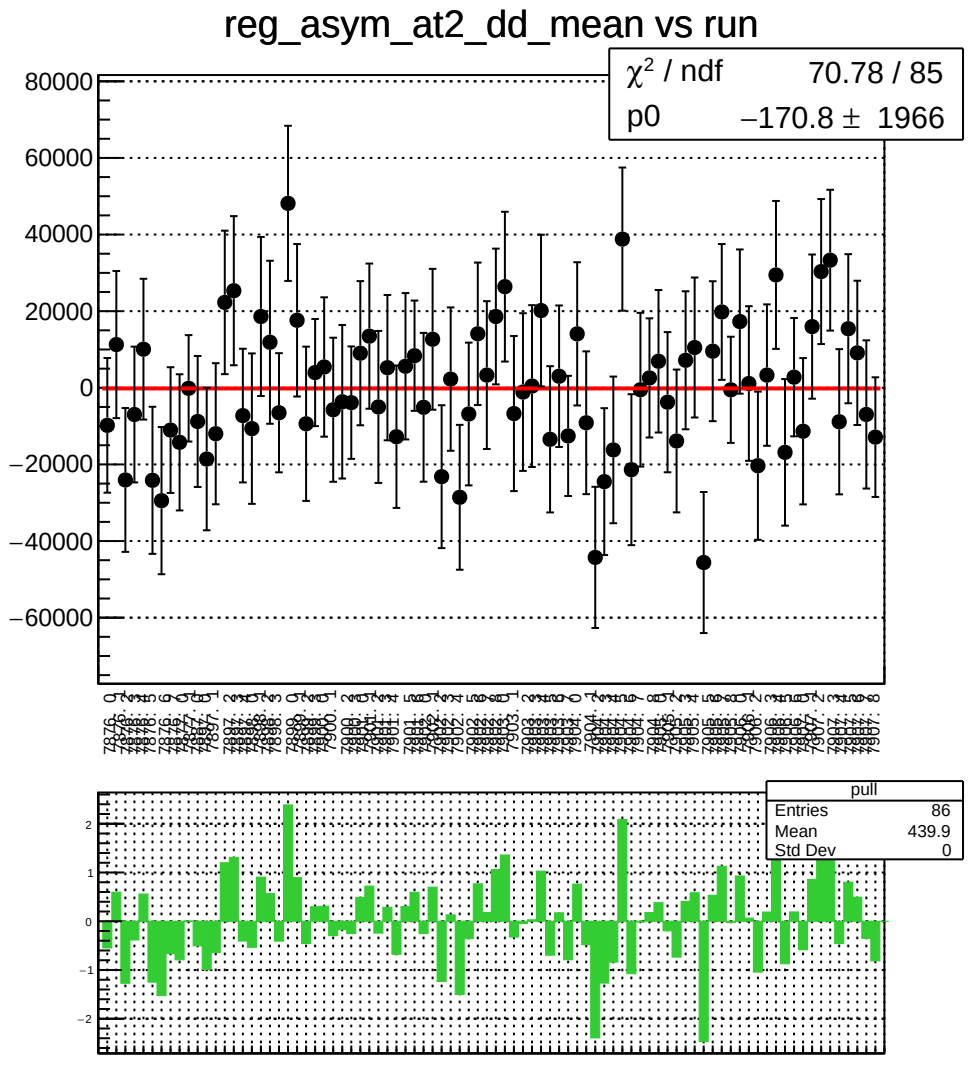

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.3 / 85
p0 −0.102 ± 0.6863
pull
Entries 86
Mean 206
Std Dev 0
pull1D
Entries 86
Mean −0.008261
Std Dev 0.9105

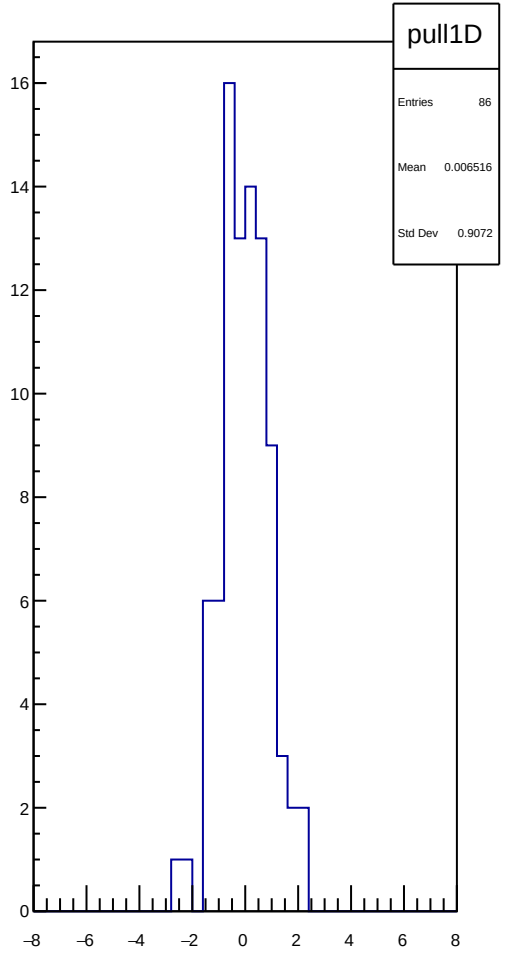

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 85
p0 607.6 ± 0.4853
1200
1000
800
600
400

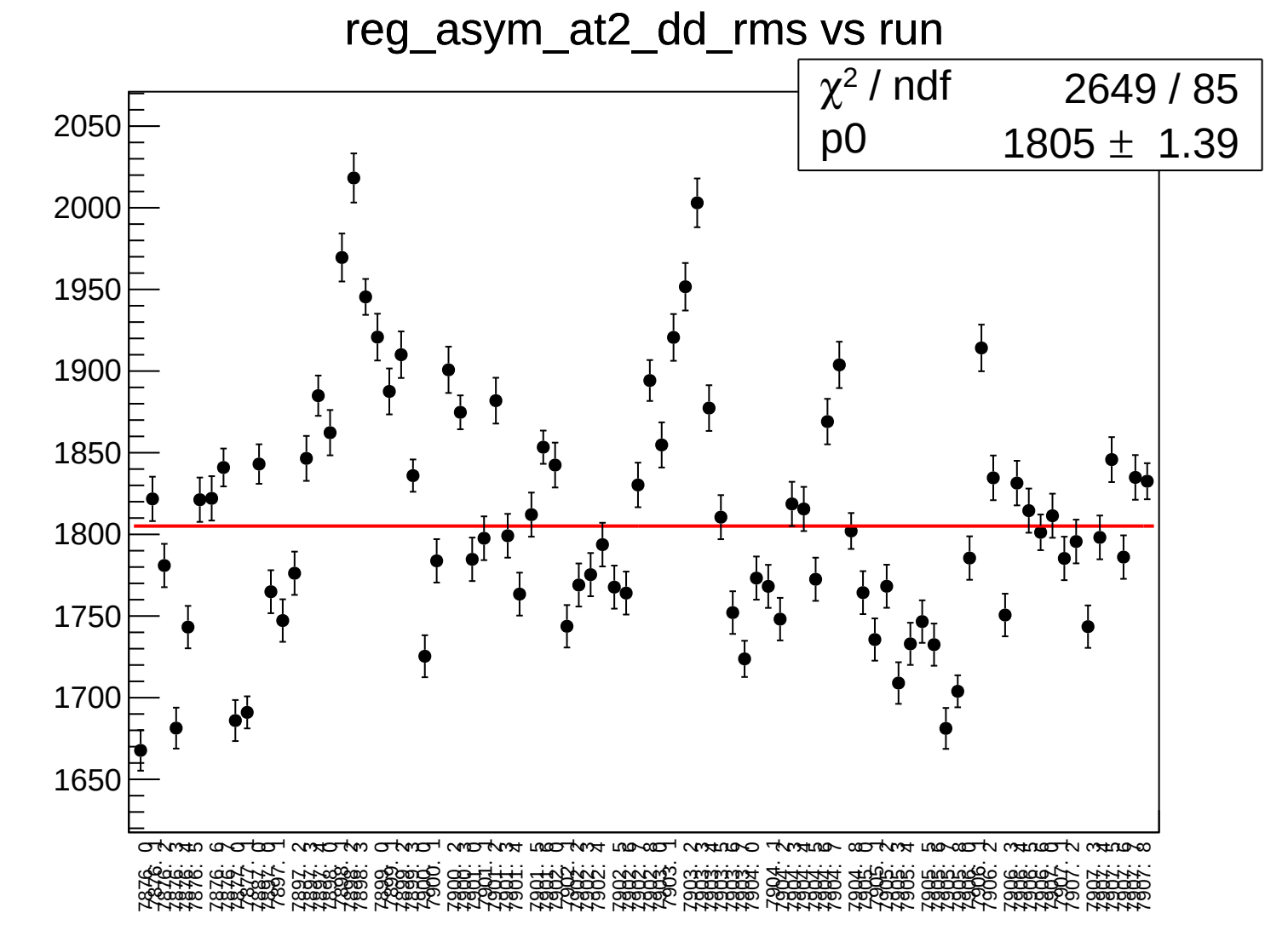

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 106.3 / 85
p0 1.063e−12 ± 1.058e−12
pull
Entries 86
Mean 137.5
Std Dev 0

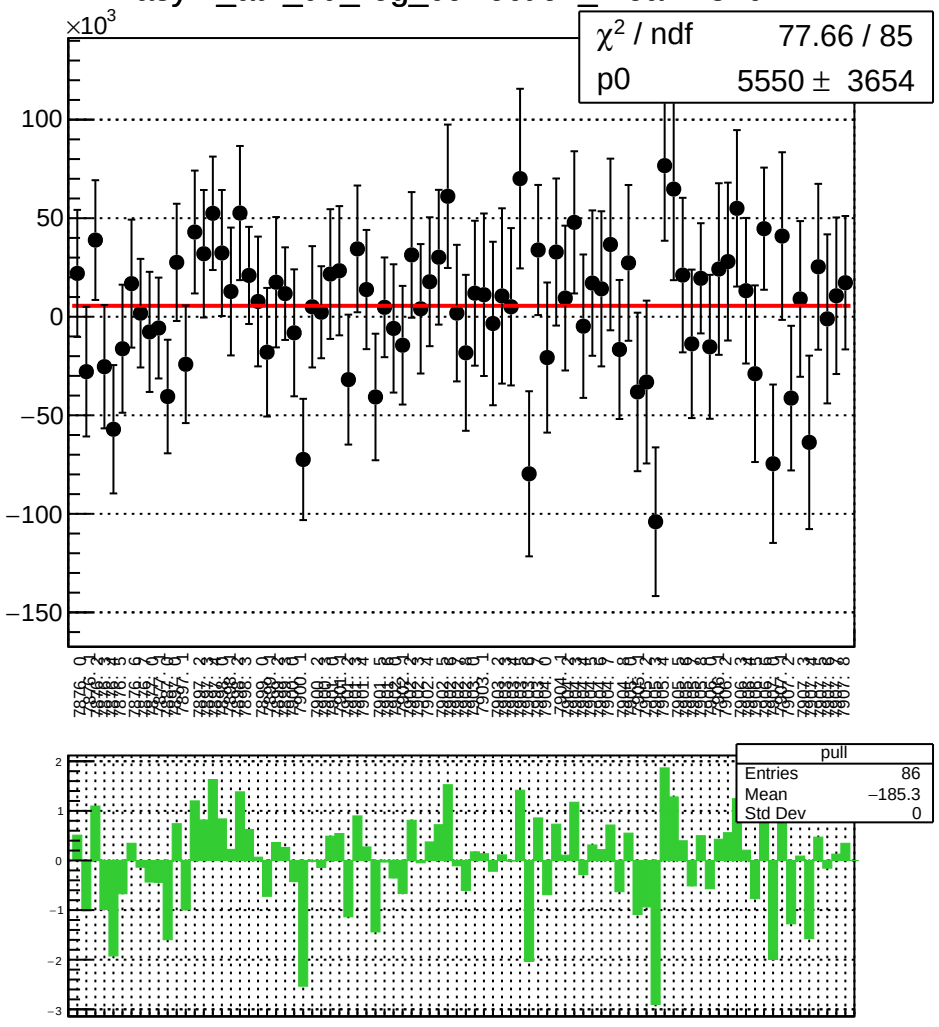

pull1D
Entries 86
Mean −0.04401
Std Dev 1.111

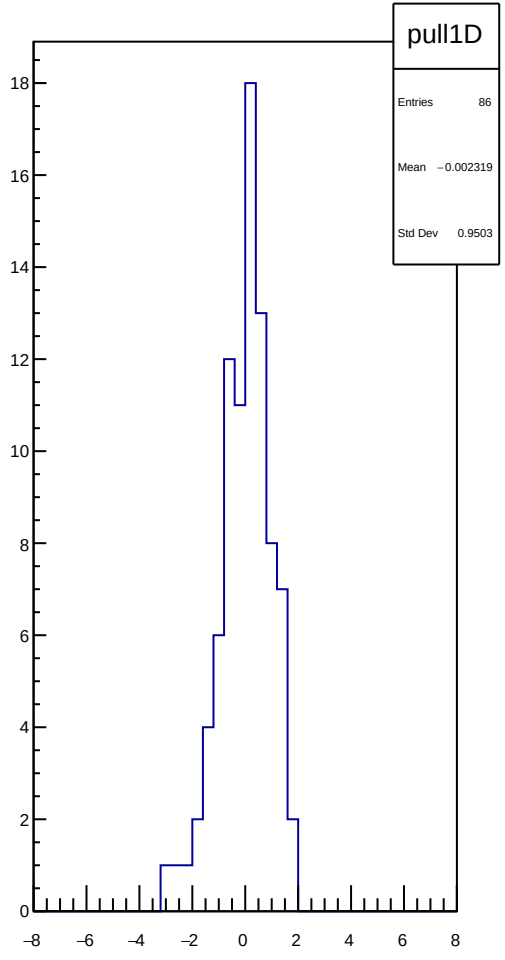

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.108e+06 / 85
p0 5.697e−10 ± 7.483e−13

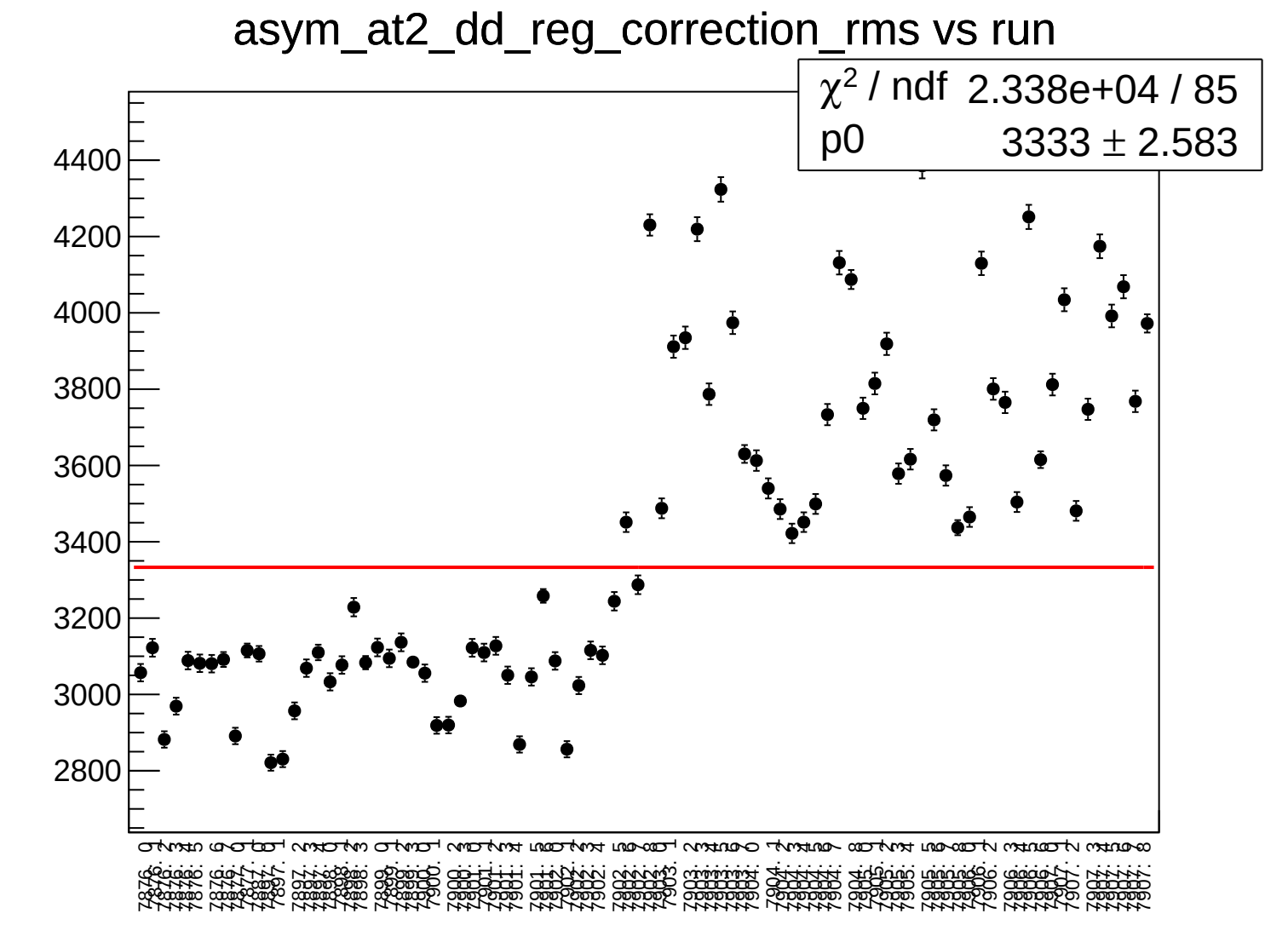

reg_asym_at2_dd_mean vs run
χ² / ndf 70.78 / 85
p0 −170.8 ± 1966
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 439.9
Std Dev 0
2
1
0
−1
−2

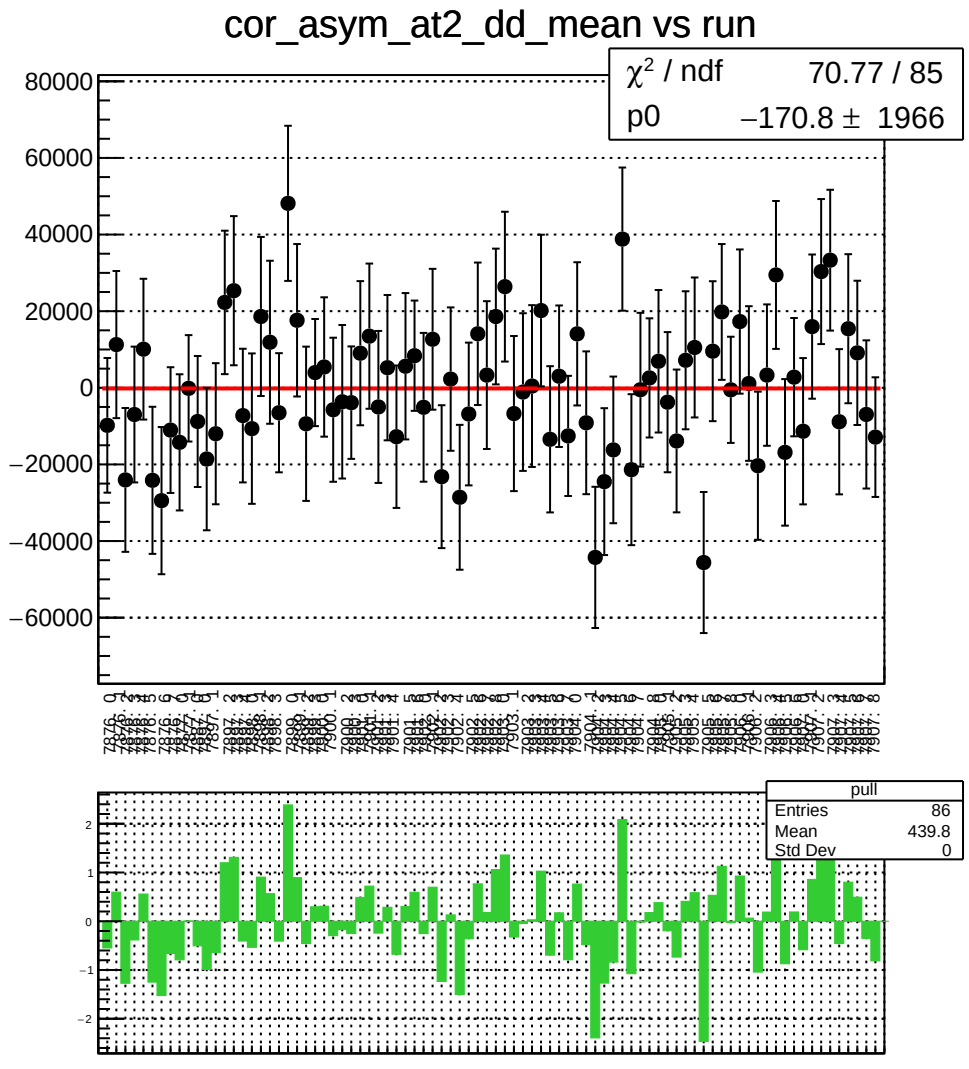

pull1D
Entries 86
Mean 0.006516
Std Dev 0.9072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

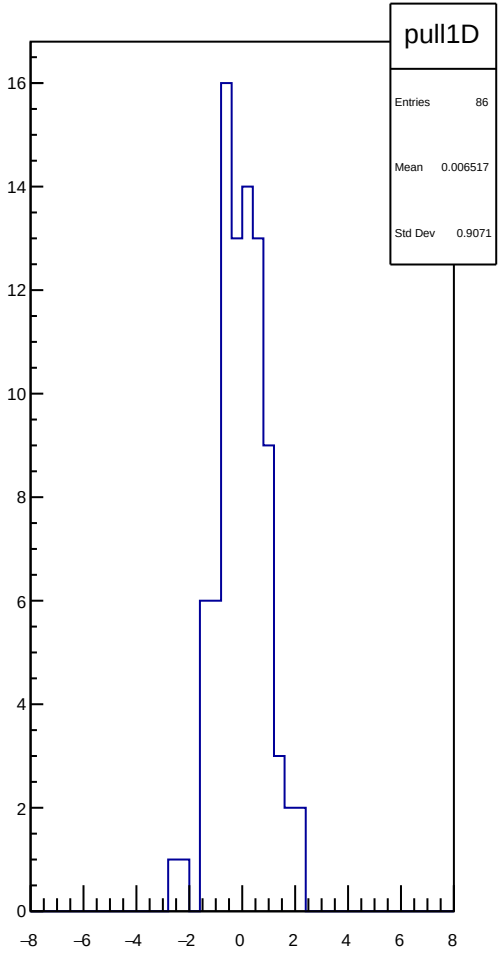

reg_asym_at2_dd_rms vs run
χ^2 / ndf 2649 / 85
p0 1805 ± 1.39
2050
2000
1950
1900
1850
1800
1750
1700
1650

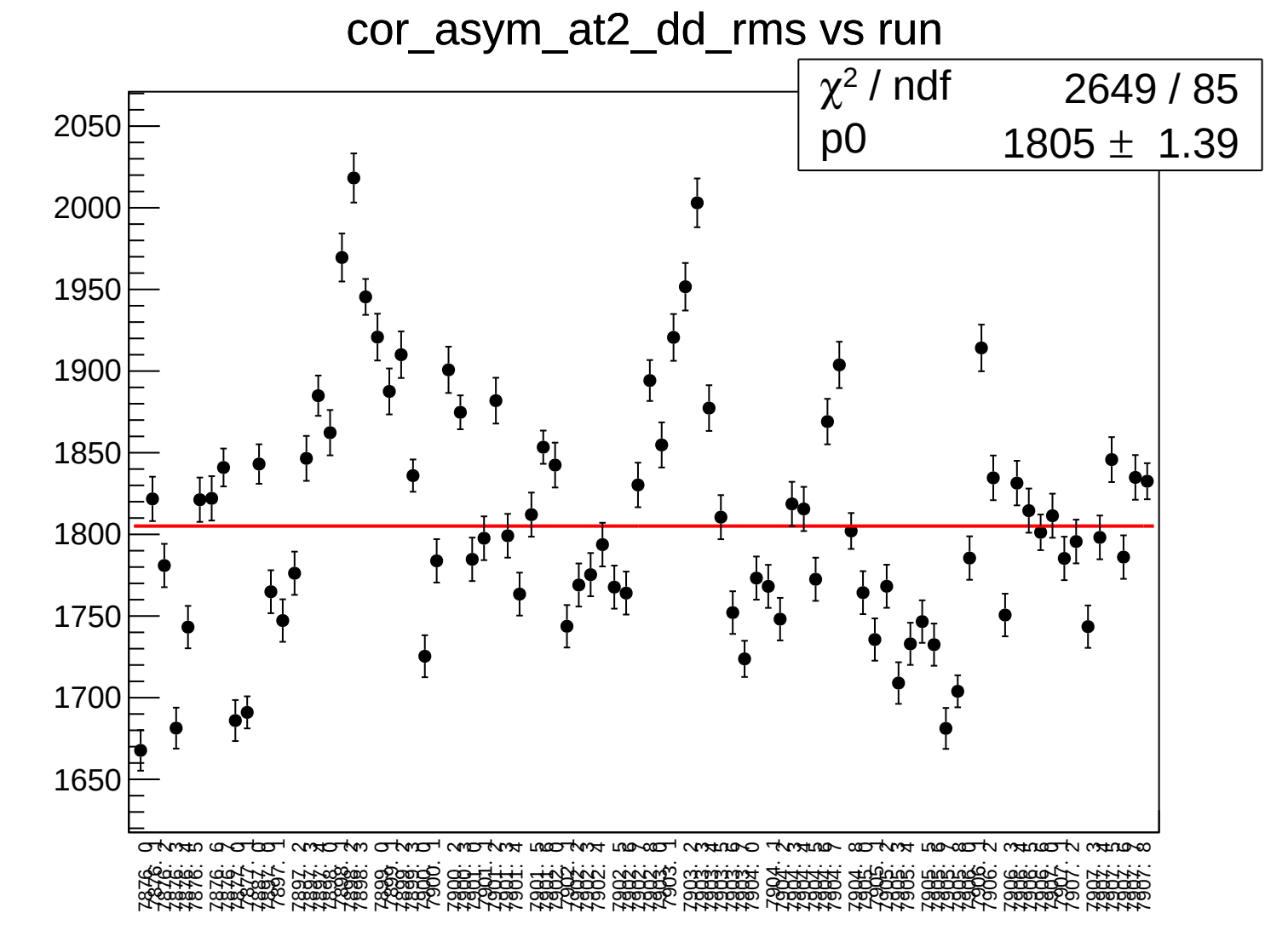

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 77.66 / 85
p0 5550 ± 3654
100
50
0
−50
−100
−150
pull
Entries 86
Mean −185.3
Std Dev 0
2
1
0
−1
−2
−3

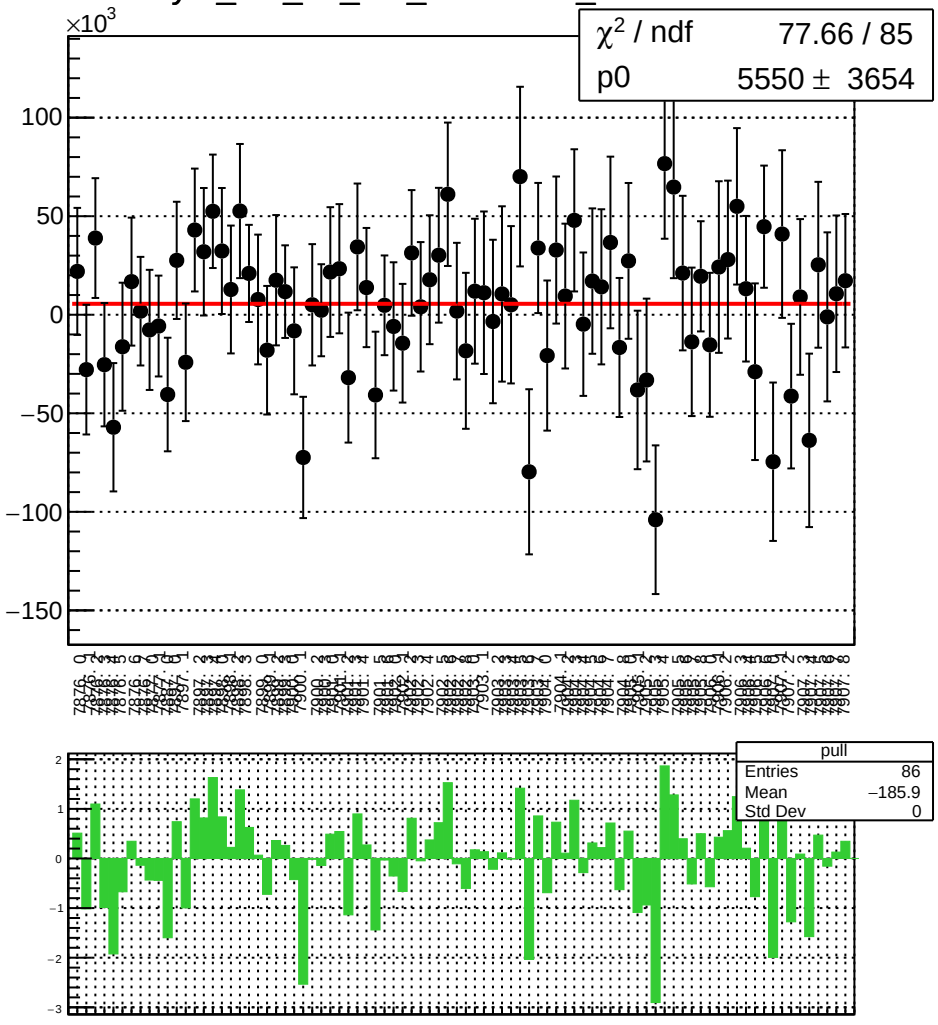

pull1D
Entries 86
Mean −0.002319
Std Dev 0.9503
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

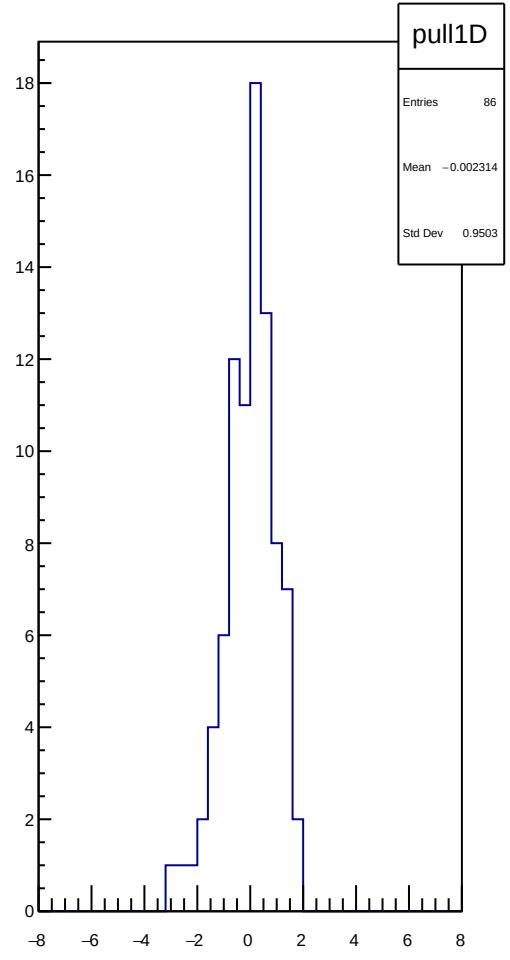

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2.338e+04 / 85
p0 3333 ± 2.583
4400
4200
4000
3800
3600
3400
3200
3000
2800

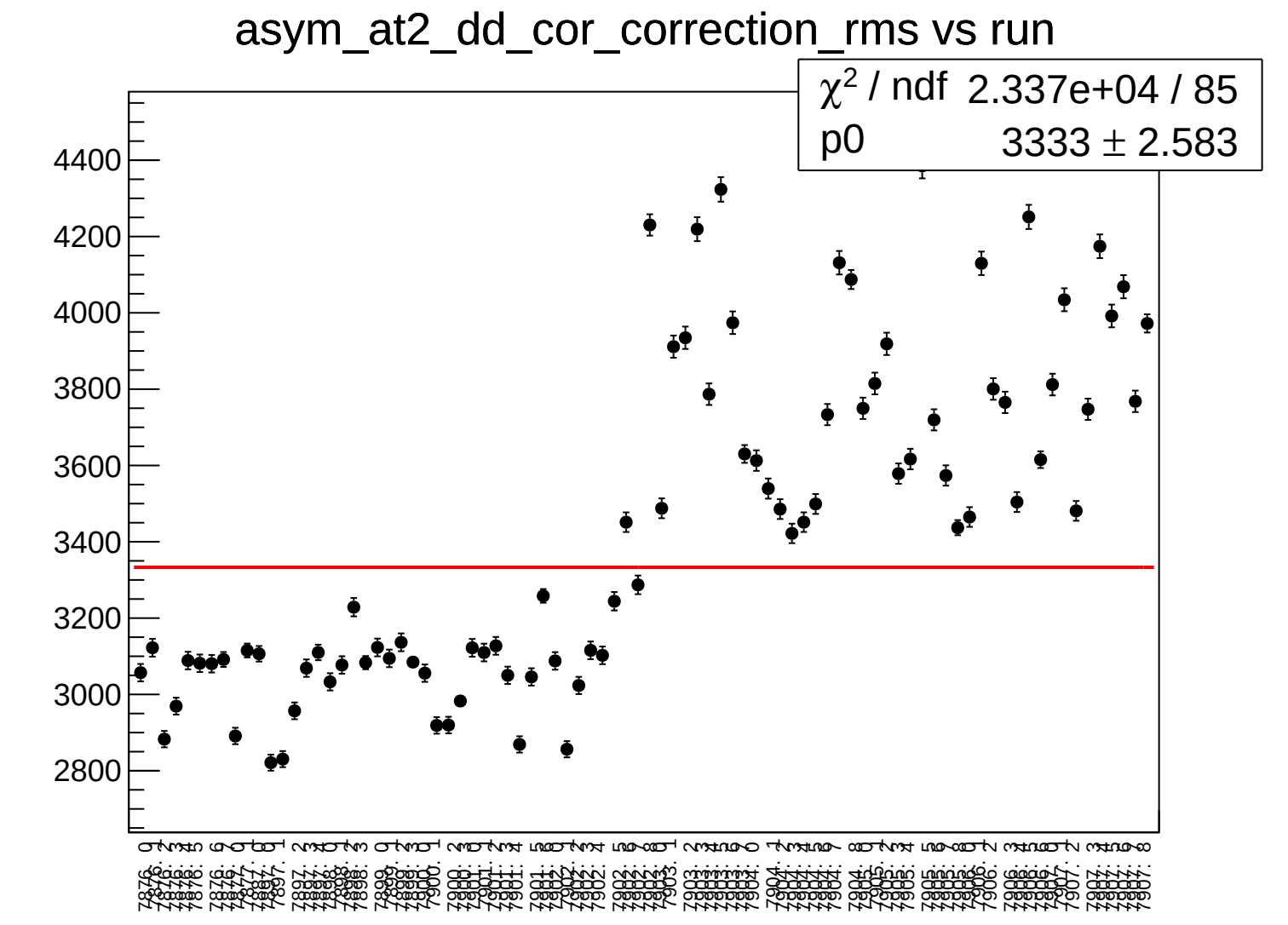

cor_asym_at2_dd_mean vs run
χ² / ndf 70.77 / 85
p0 −170.8 ± 1966
pull
Entries 86
Mean 439.8
Std Dev 0

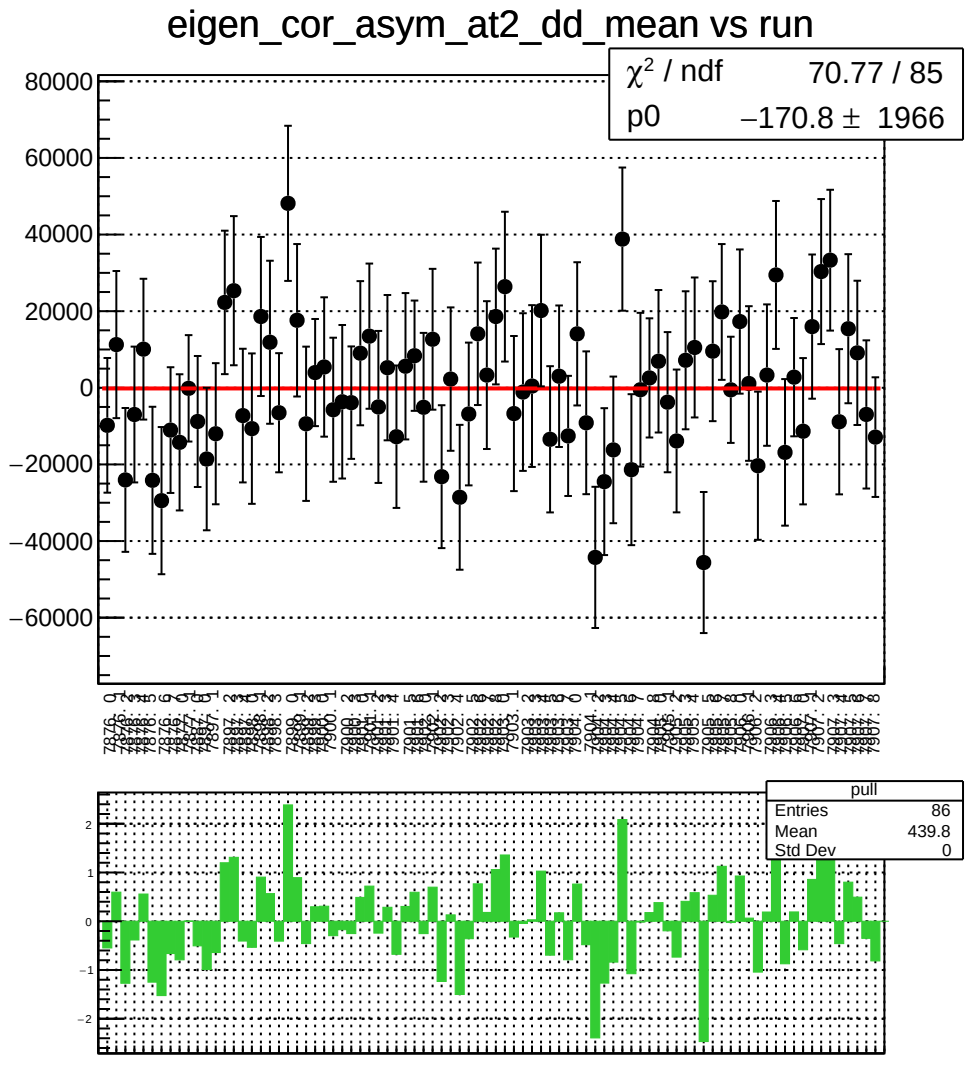

pull1D
Entries 86
Mean 0.006517
Std Dev 0.9071

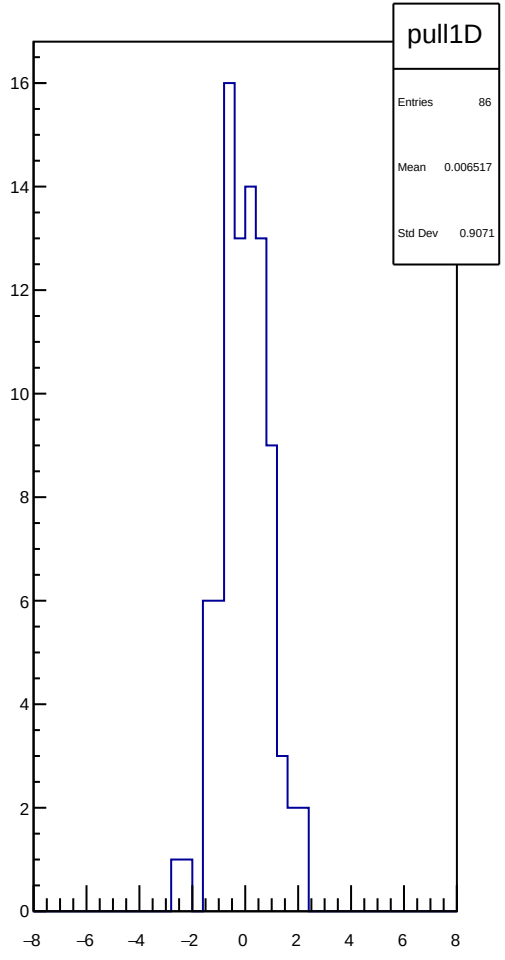

cor_asym_at2_dd_rms vs run
χ² / ndf 2649 / 85
p0 1805 ± 1.39
2050
2000
1950
1900
1850
1800
1750
1700
1650

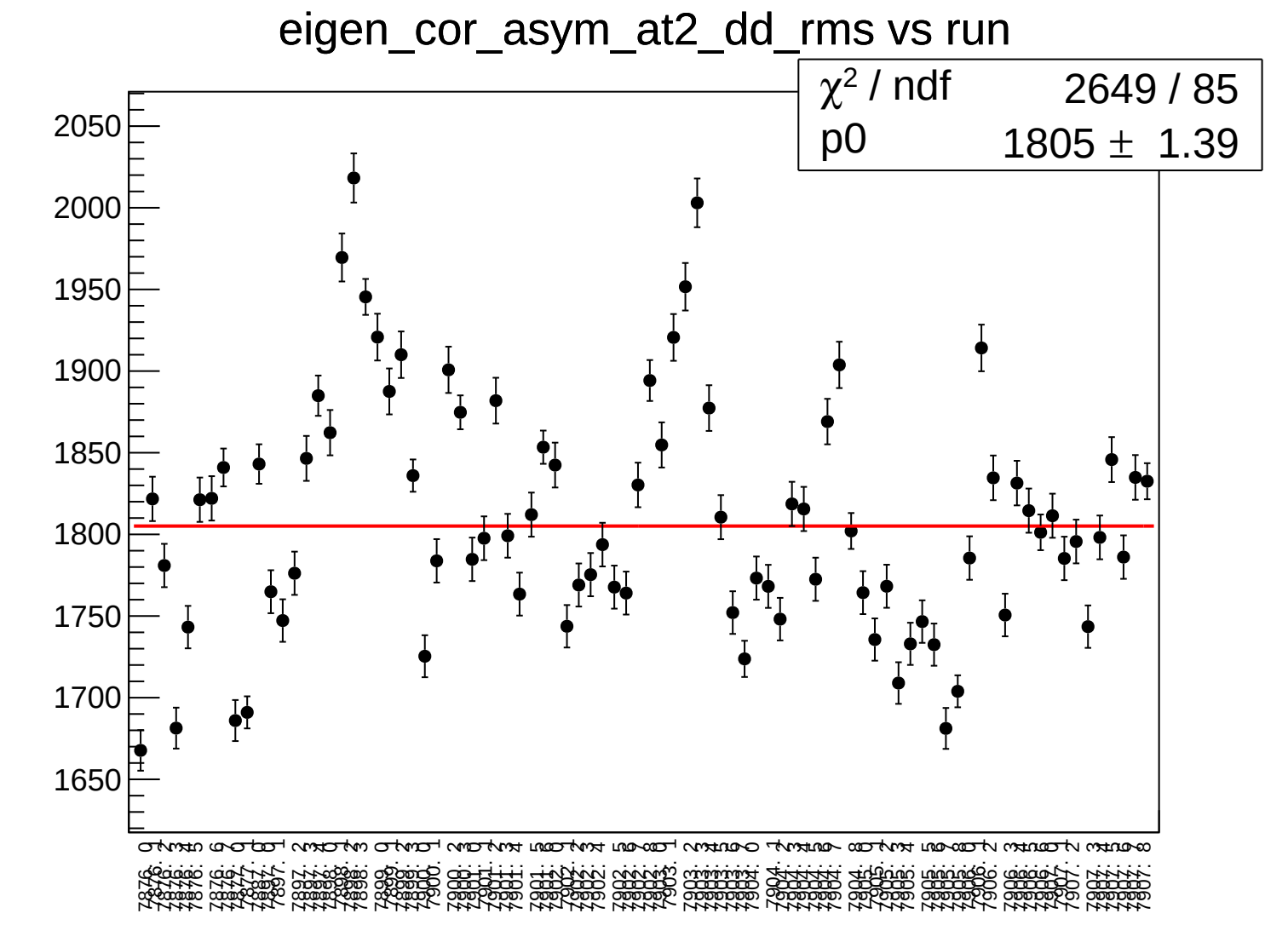

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 77.66 / 85
p0 5550 ± 3654
100
50
0
−50
−100
−150
pull
Entries 86
Mean −185.9
Std Dev 0
2
1
0
−1
−2
−3

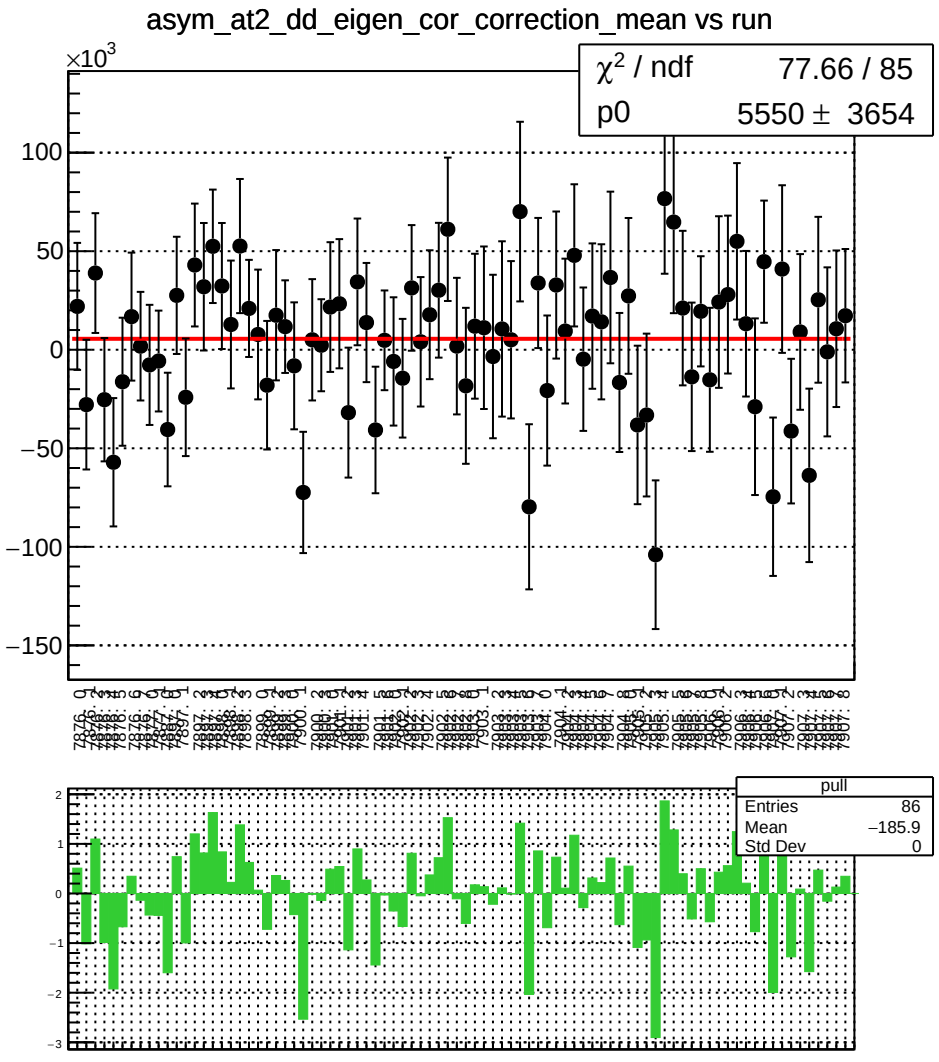

pull1D
Entries 86
Mean −0.002314
Std Dev 0.9503
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

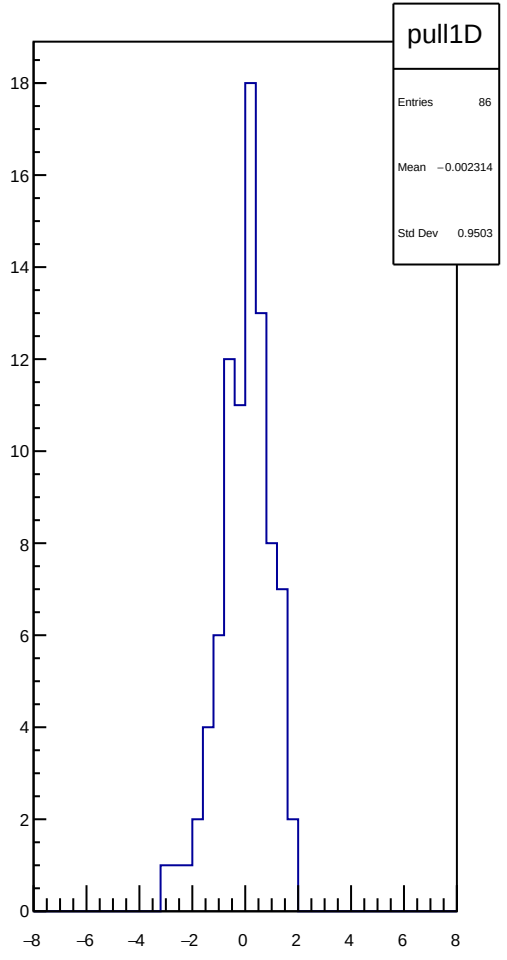

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2.337e+04 / 85
p0 3333 ± 2.583
4400
4200
4000
3800
3600
3400
3200
3000
2800

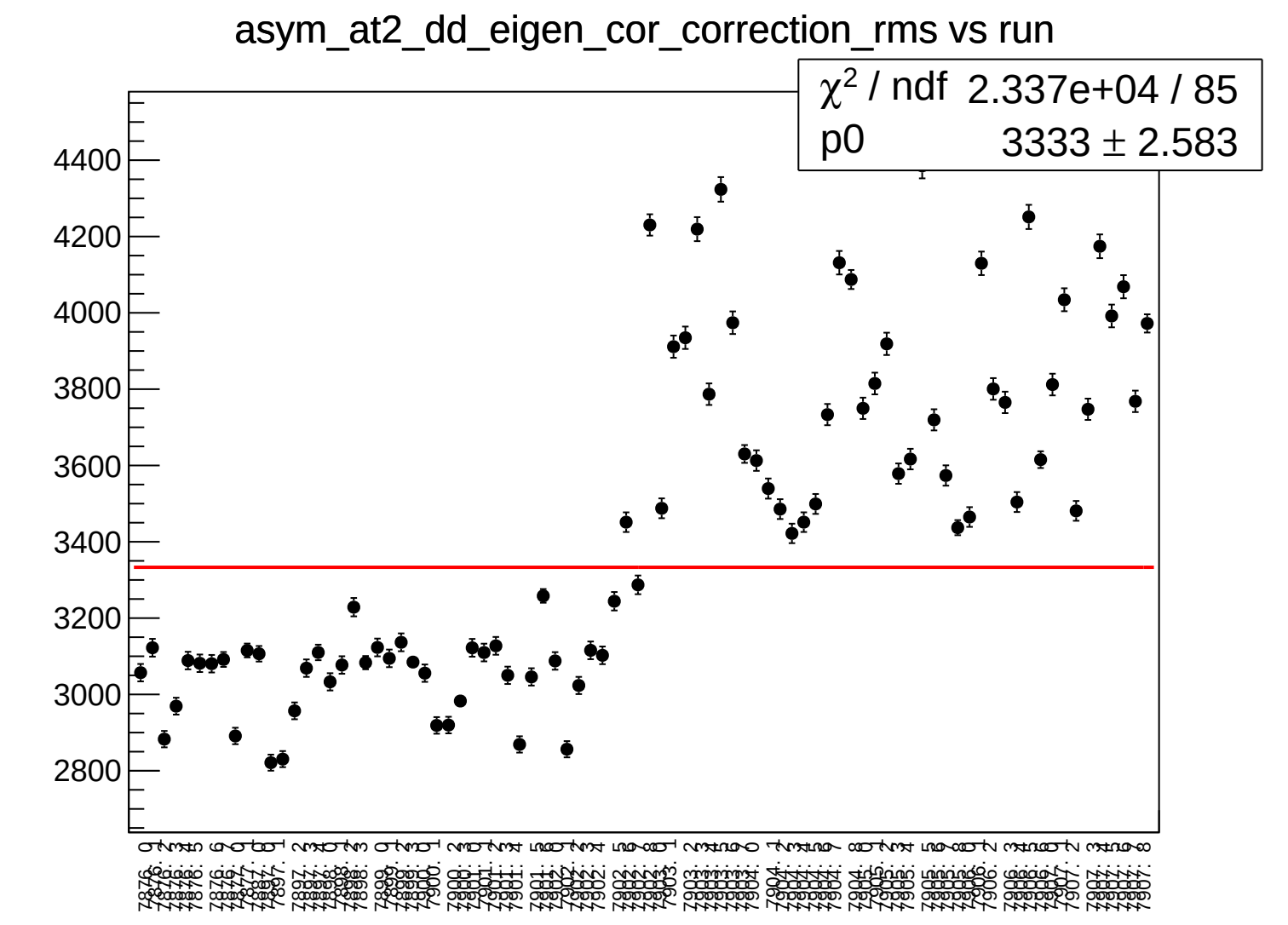

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 70.77 / 85
p0 −170.8 ± 1966
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 439.8
Std Dev 0
2
1
0
−1
−2

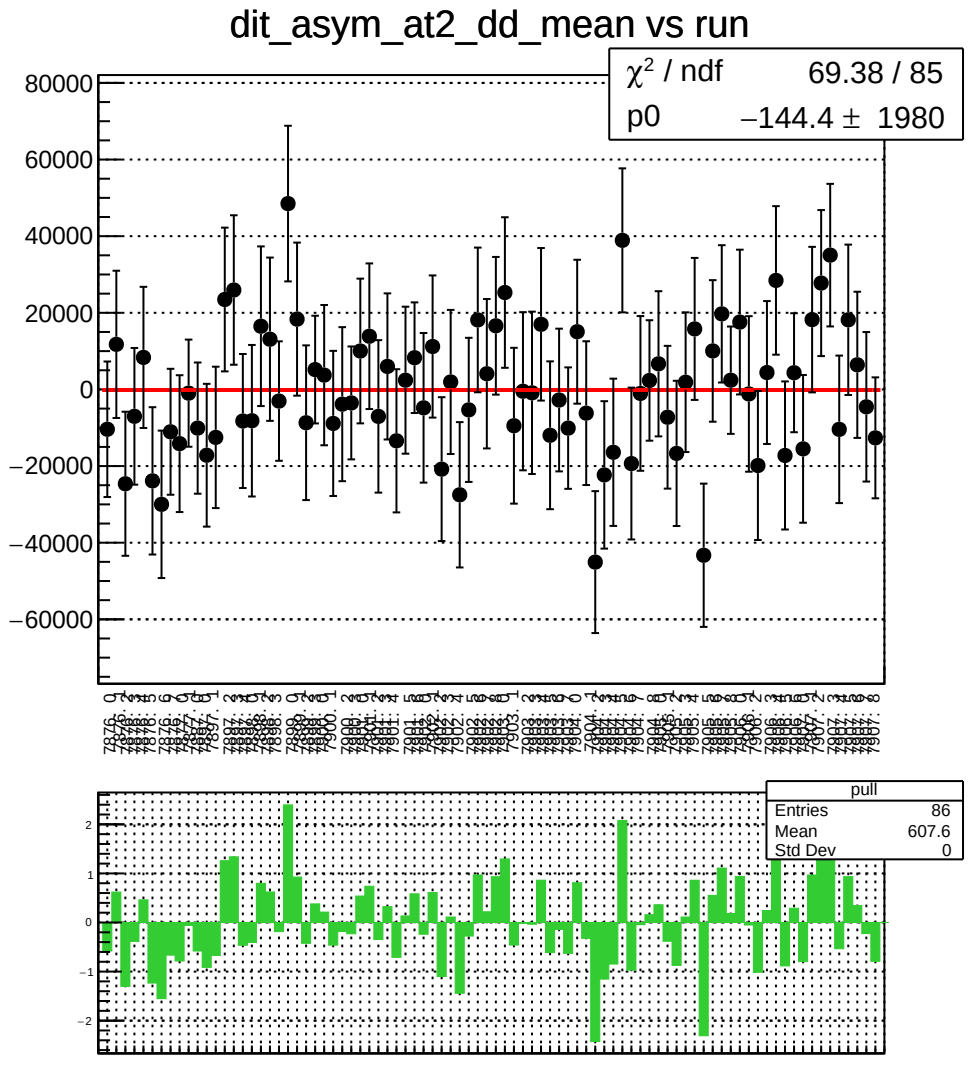

pull1D
Entries 86
Mean 0.006517
Std Dev 0.9071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

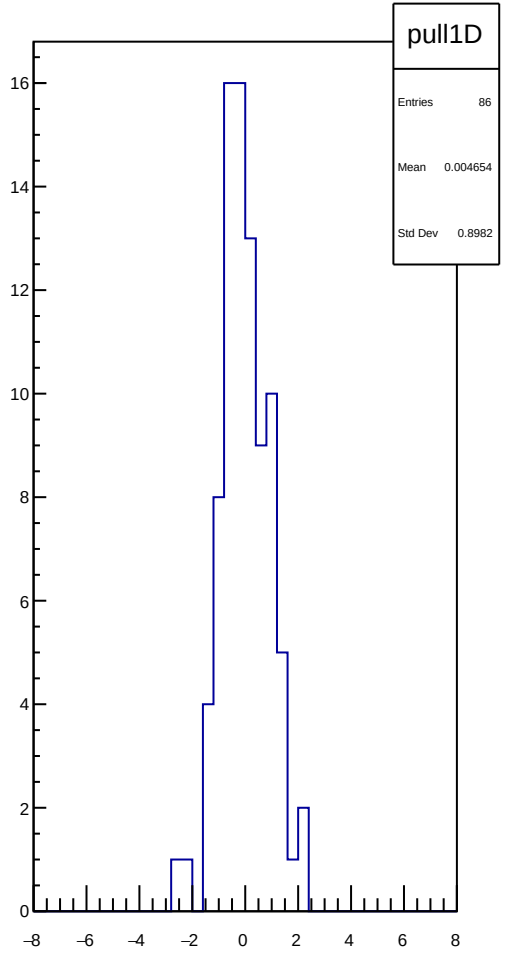

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 2649 / 85
p0 1805 ± 1.39
2050
2000
1950
1900
1850
1800
1750
1700
1650

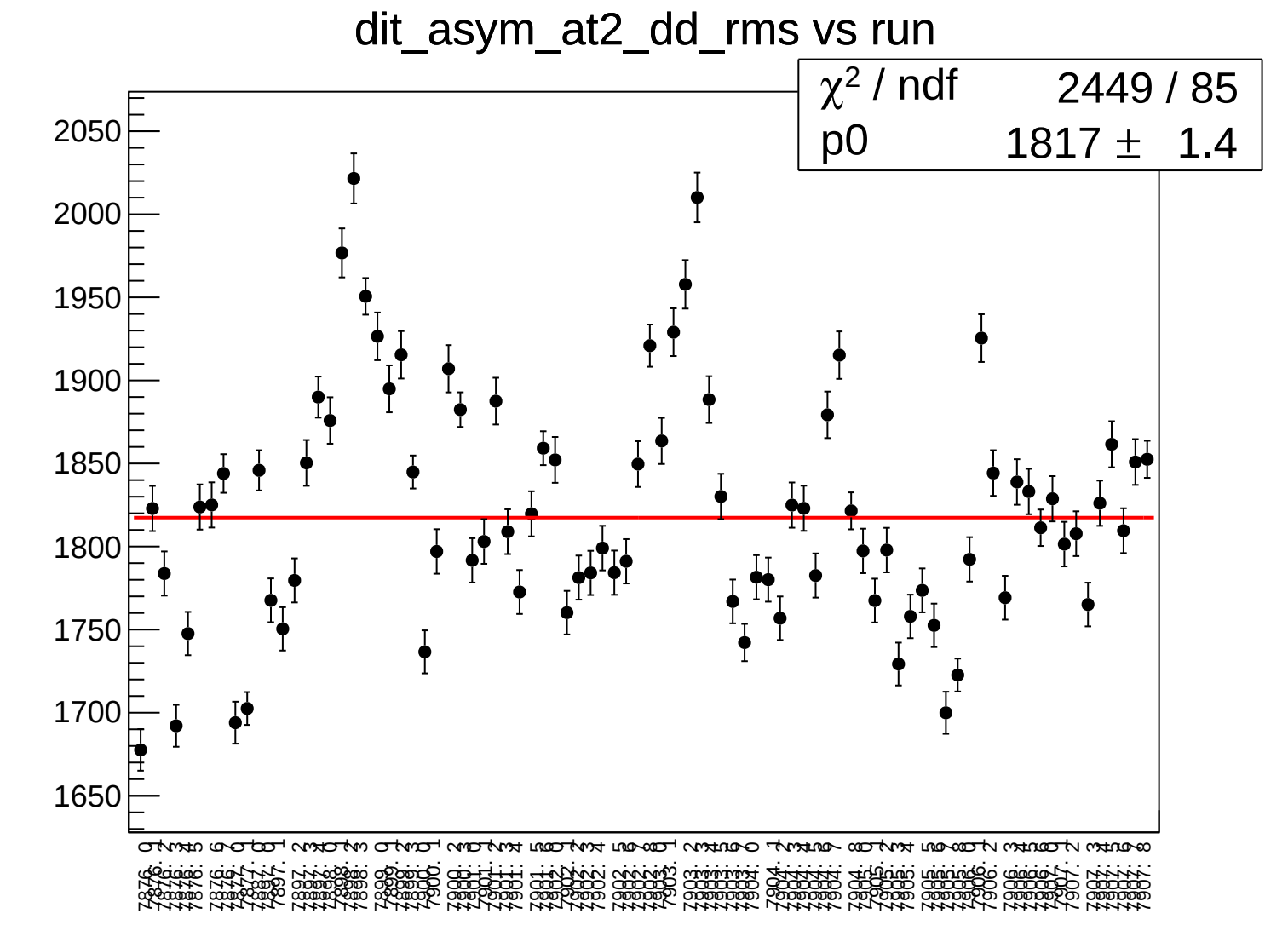

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 77.66 / 85
p0 5550 ± 3654
100
50
0
−50
−100
−150
pull
Entries 86
Mean −185.9
Std Dev 0
2
1
0
−1
−2
−3

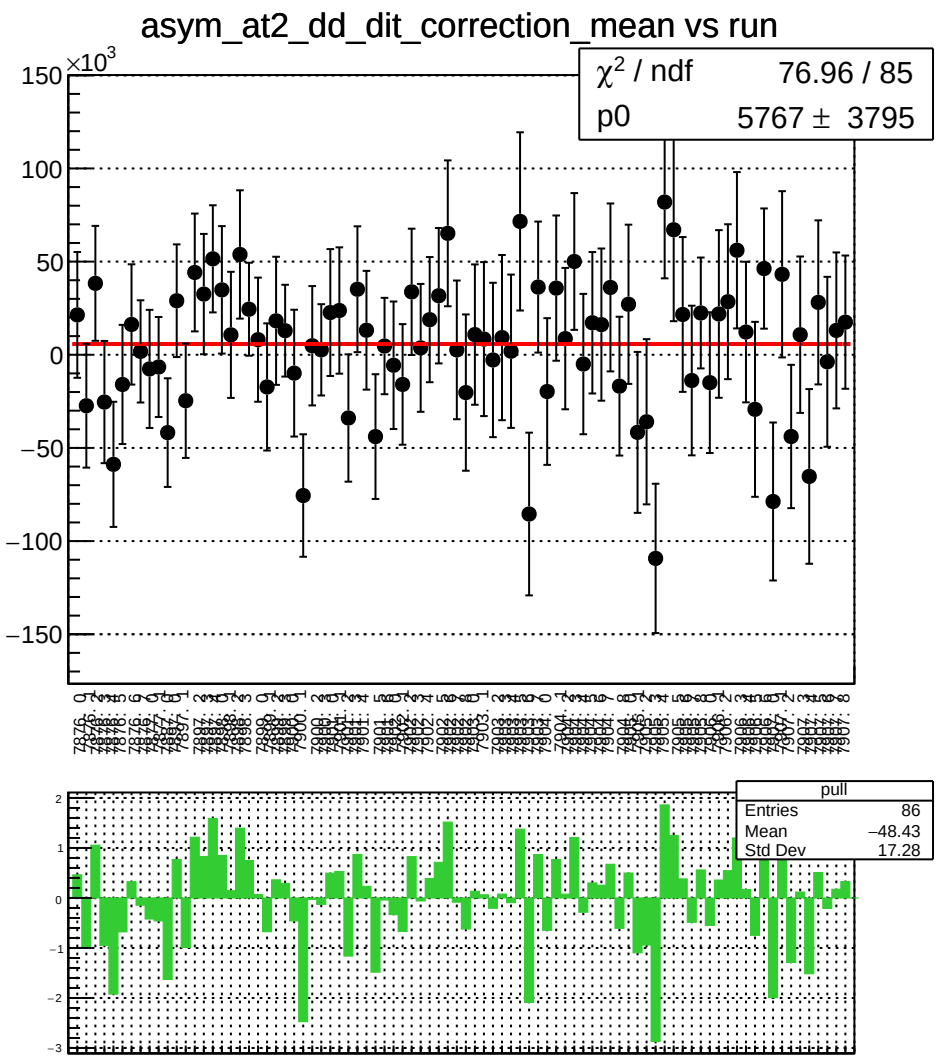

pull1D
Entries 86
Mean −0.002314
Std Dev 0.9503
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

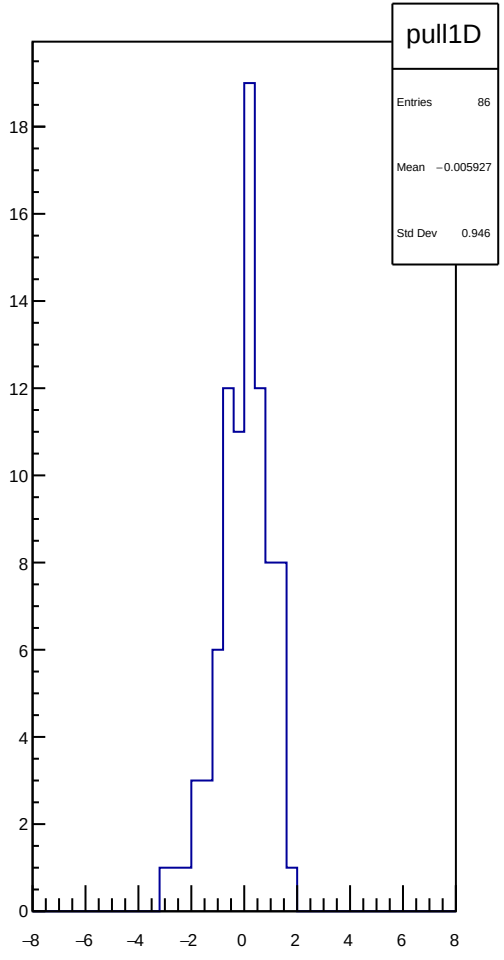

asym_at2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 2.337e+04 / 85
p0 3333 ± 2.583
4400
4200
4000
3800
3600
3400
3200
3000
2800

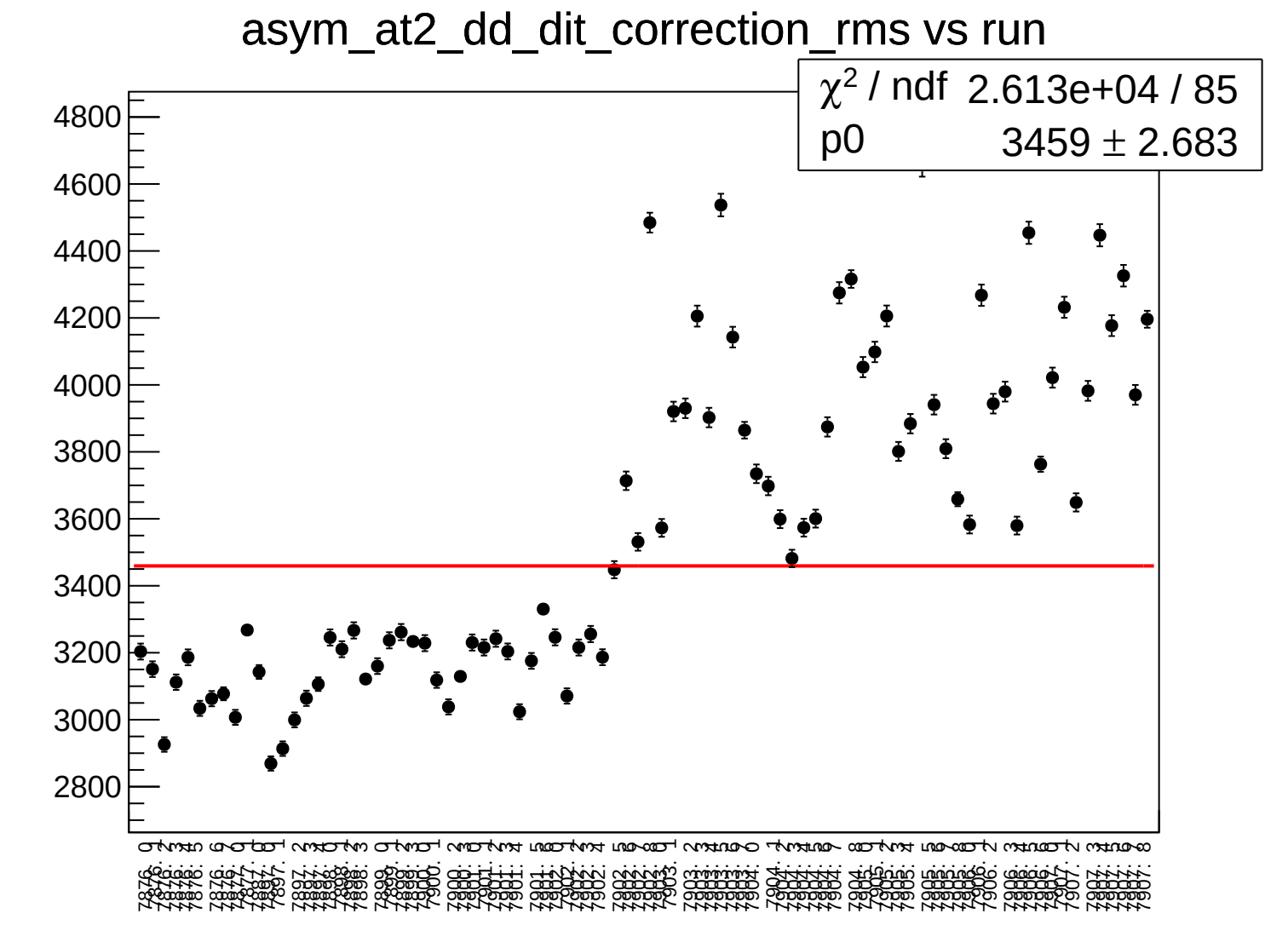

dit_asym_at2_dd_mean vs run
χ² / ndf 69.38 / 85
p0 −144.4 ± 1980
pull
Entries 86
Mean 607.6
Std Dev 0

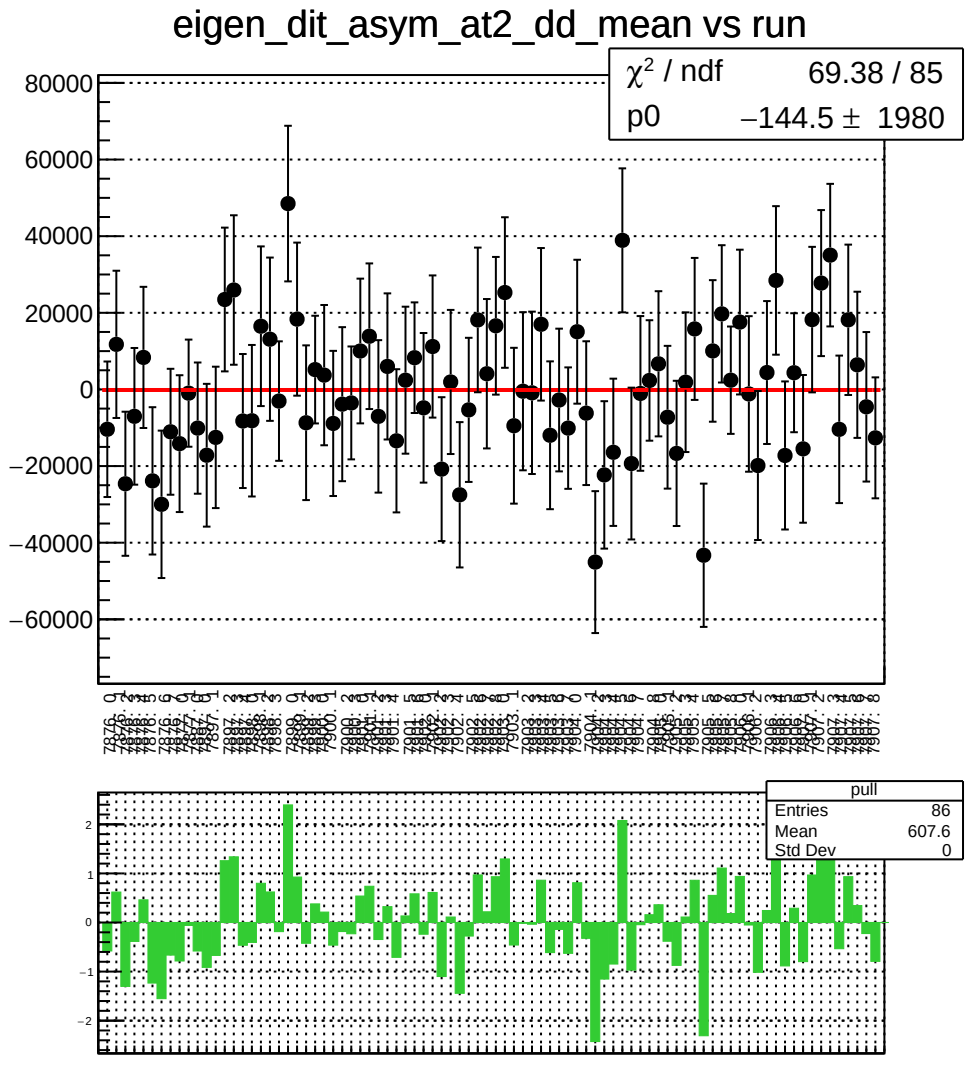

pull1D
Entries 86
Mean 0.004654
Std Dev 0.8982

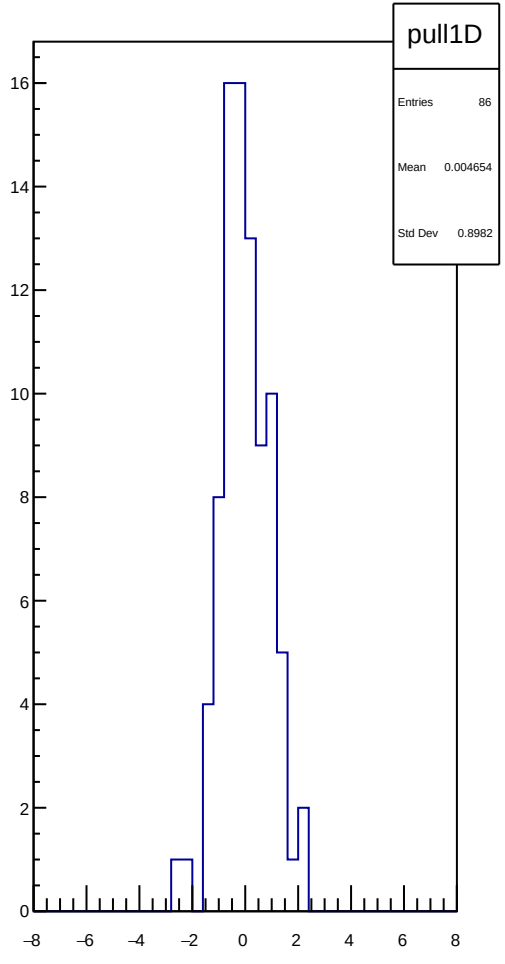

dit_asym_at2_dd_rms vs run
χ² / ndf 2449 / 85
p0 1817 ± 1.4
2050
2000
1950
1900
1850
1800
1750
1700
1650

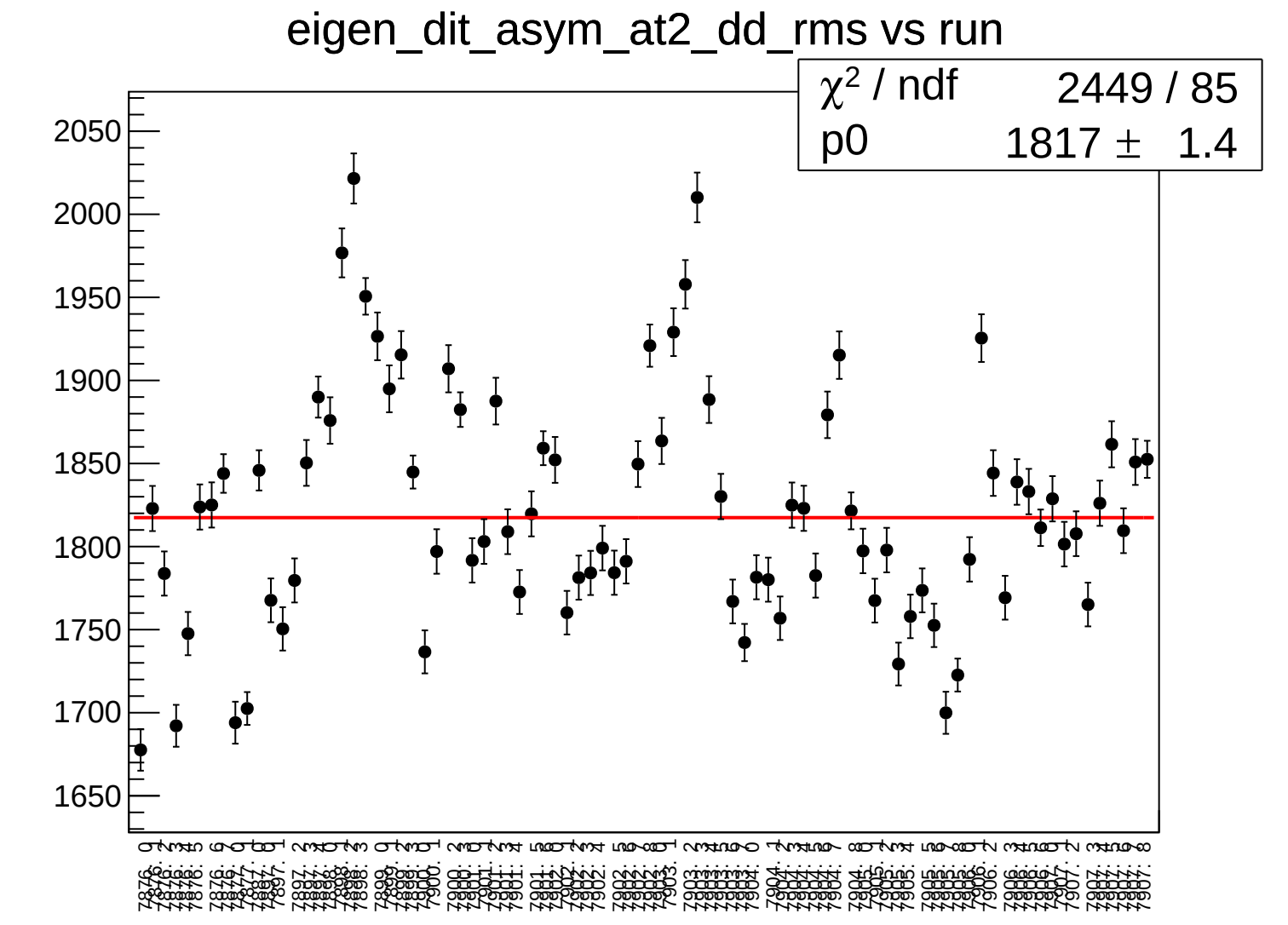

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 76.96 / 85
p0 5767 ± 3795
×10³
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −48.43
Std Dev 17.28
2
1
0
−1
−2
−3

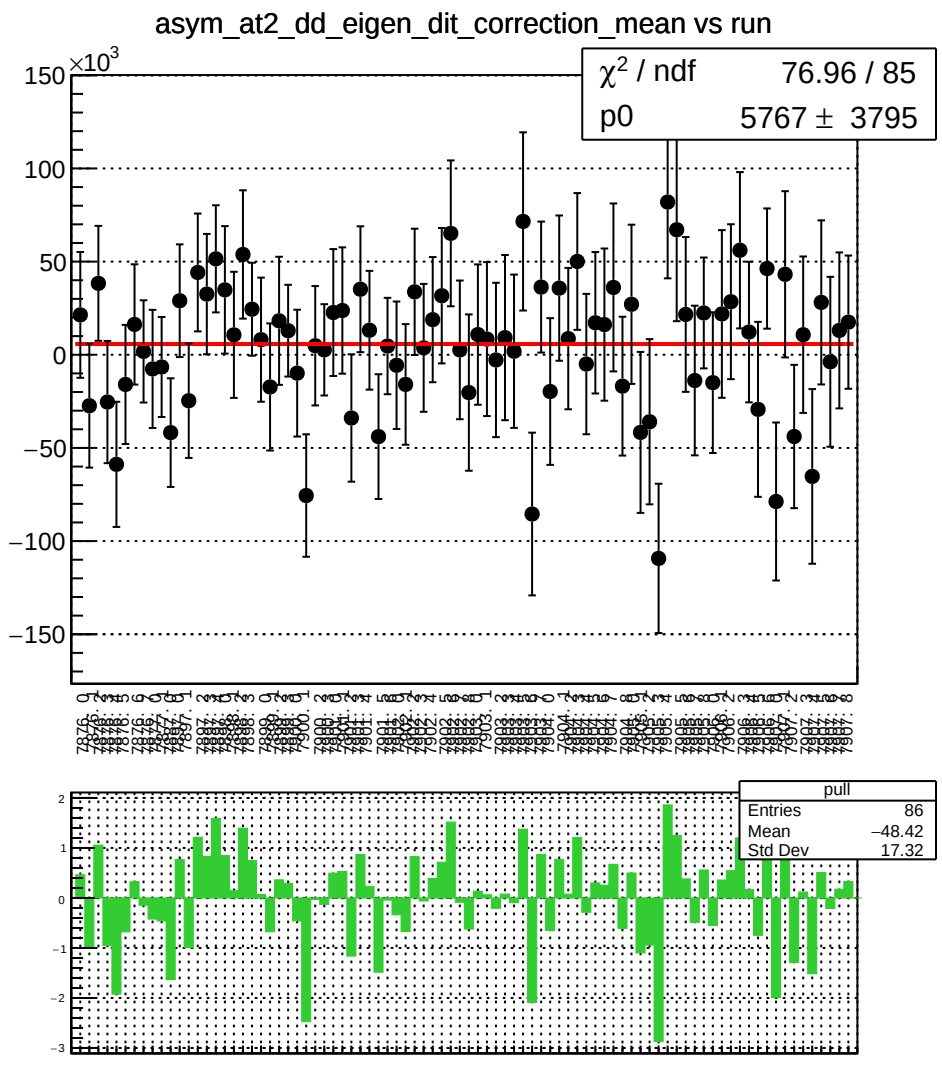

pull1D
Entries 86
Mean −0.005927
Std Dev 0.946
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

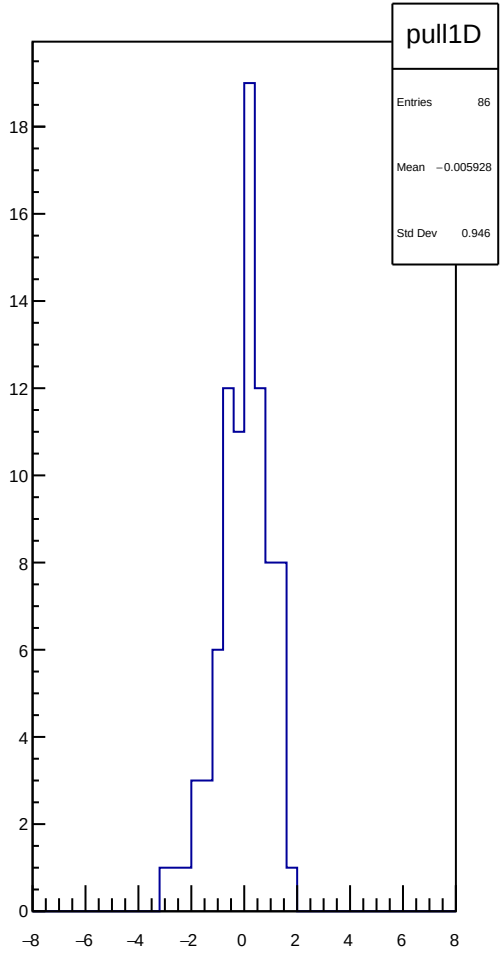

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2.613e+04 / 85
p0 3459 ± 2.683
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

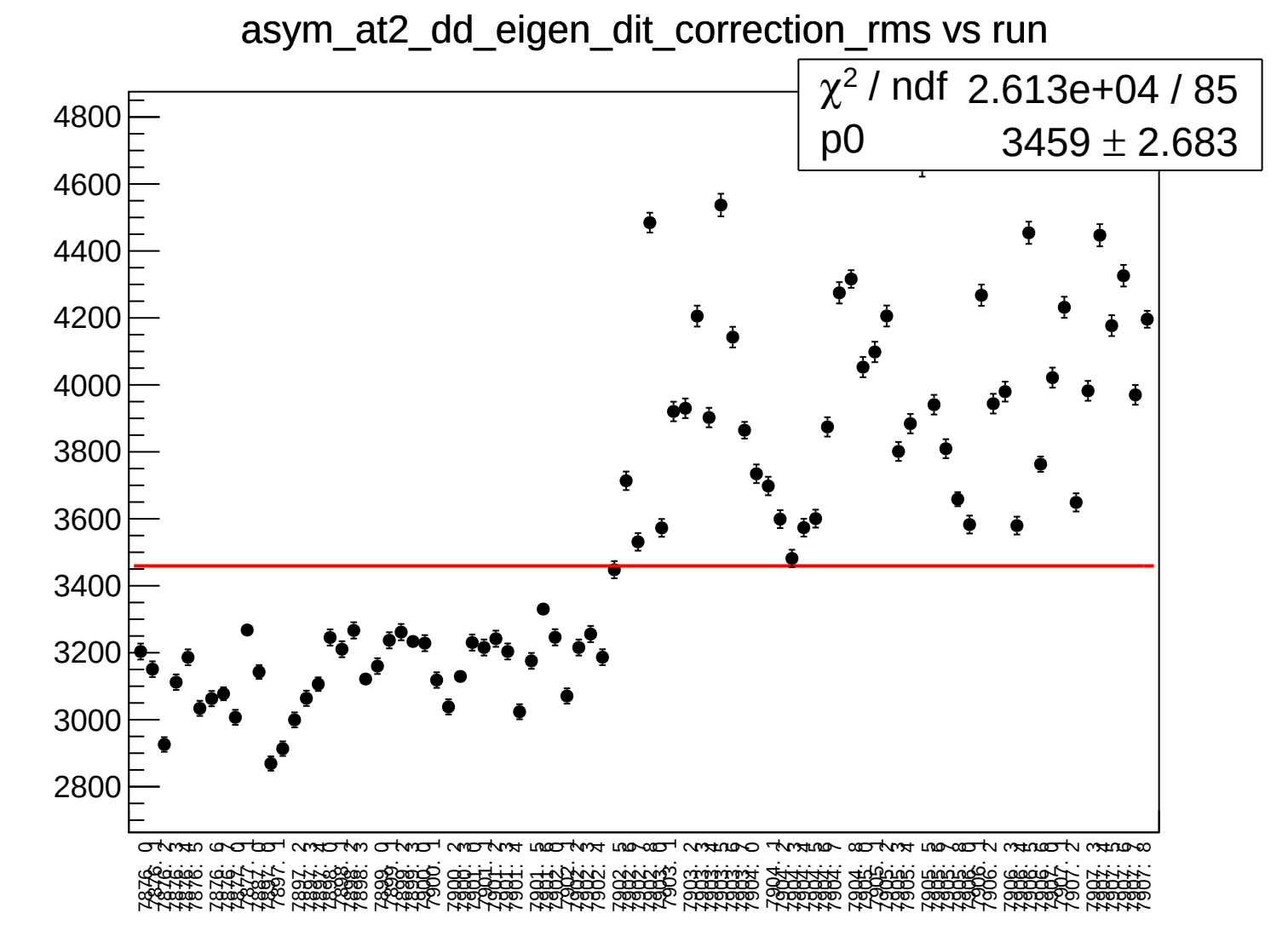

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 69.38 / 85
p0 −144.5 ± 1980
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 607.6
Std Dev 0
2
1
0
−1
−2

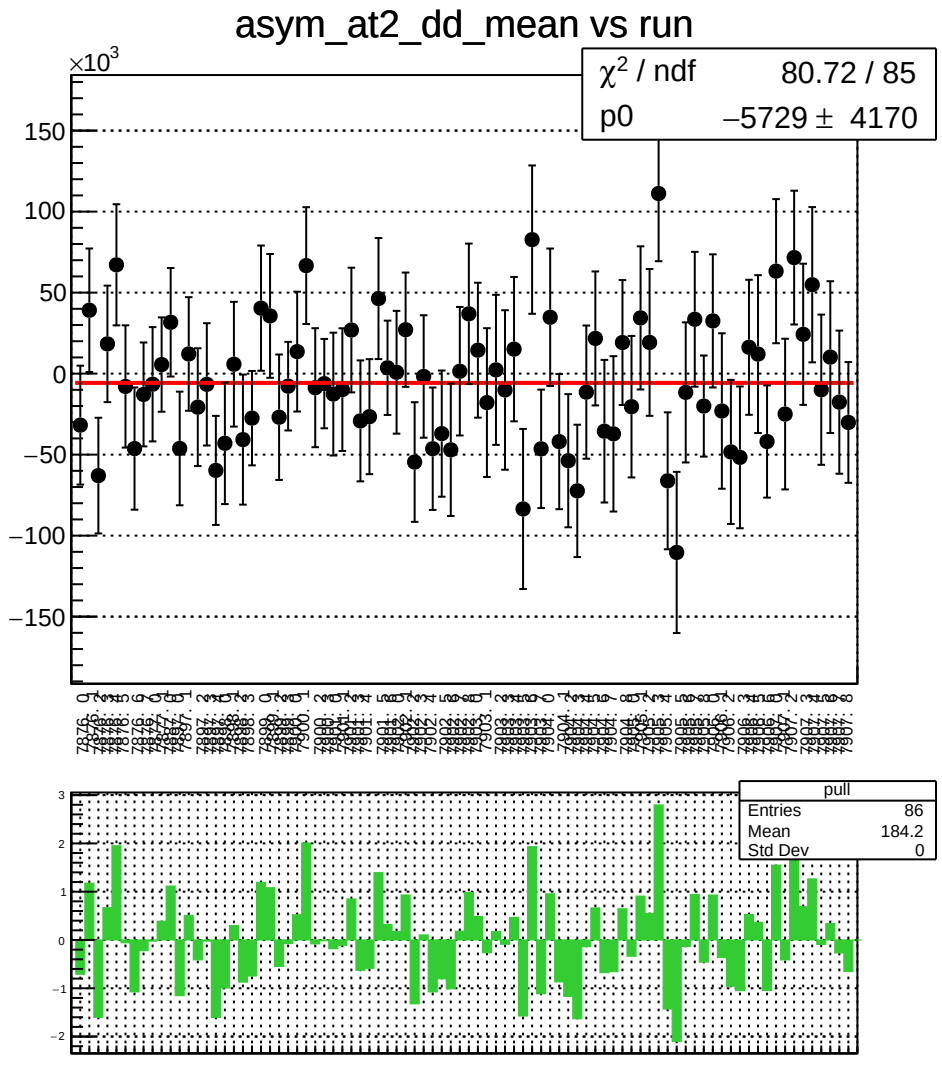

pull1D
Entries 86
Mean 0.004654
Std Dev 0.8982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

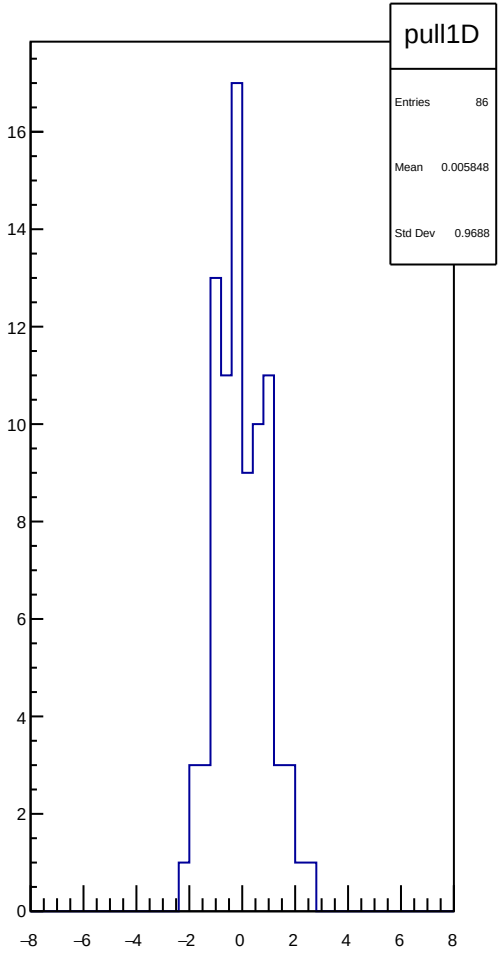

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 2449 / 85
p0 1817 ± 1.4
2050
2000
1950
1900
1850
1800
1750
1700
1650

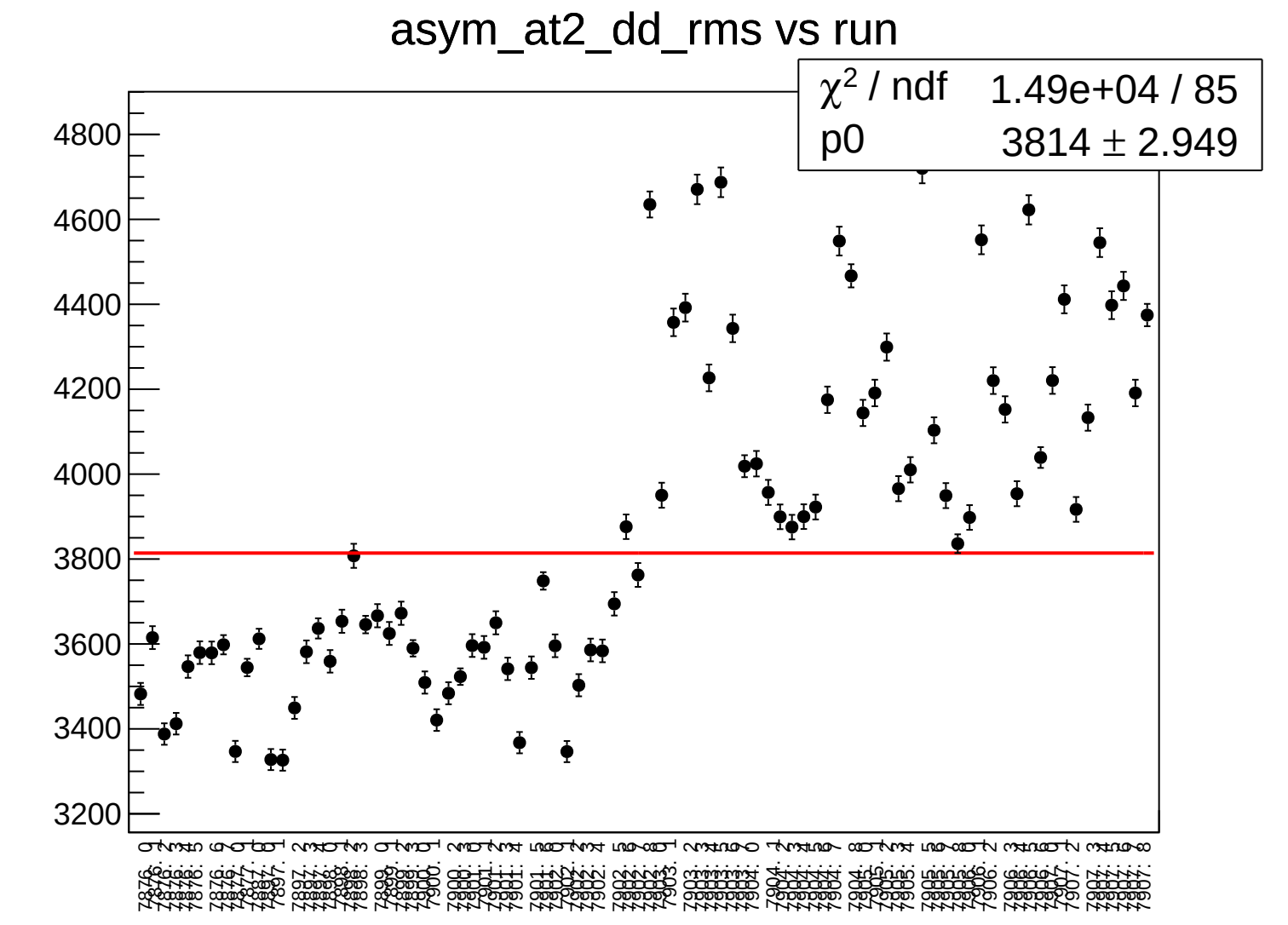

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.96 / 85
p0 5767 ± 3795
×10³
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −48.42
Std Dev 17.32
2
1
0
−1
−2
−3

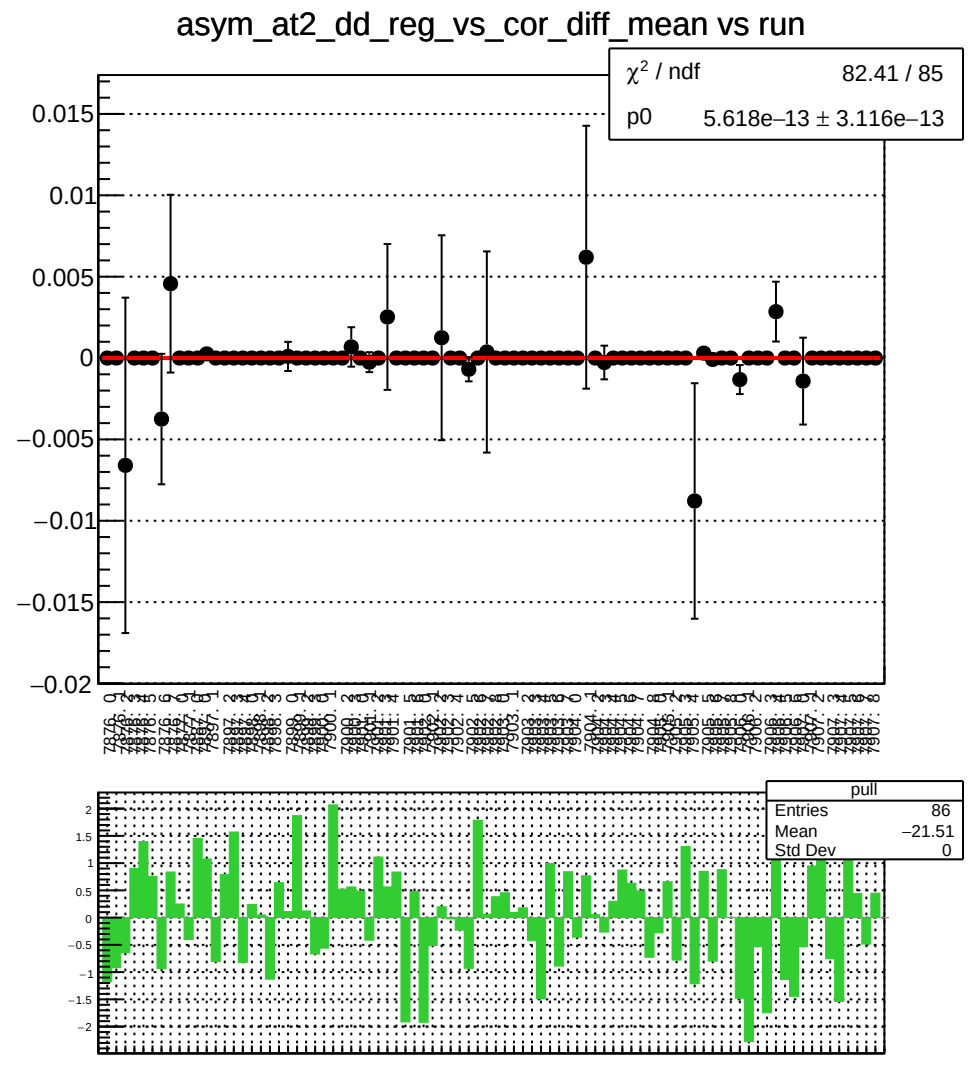

pull1D
Entries 86
Mean −0.005928
Std Dev 0.946
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

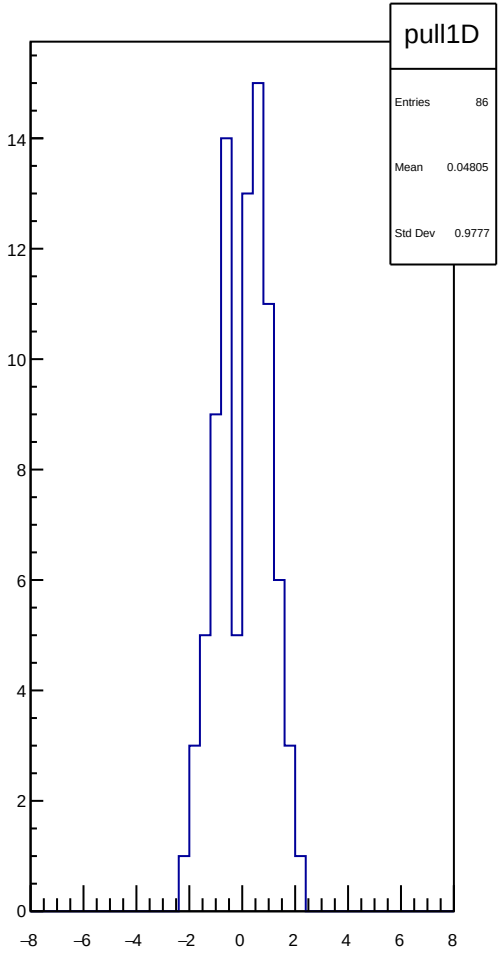

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.613e+04 / 85
p0 3459 ± 2.683
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

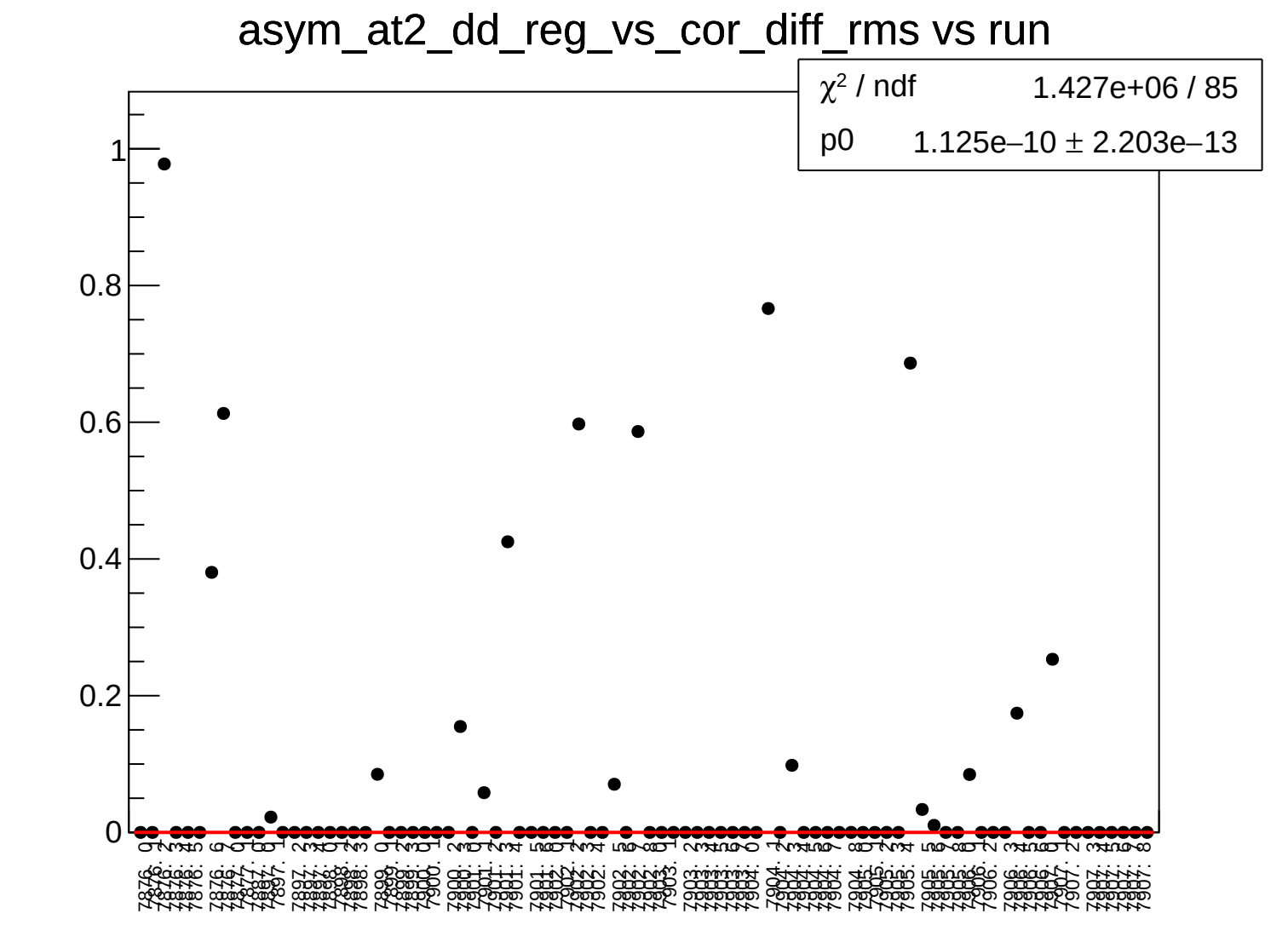

asym_at2_dd_mean vs run
×10^3
χ² / ndf 80.72 / 85
p0 −5729 ± 4170
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 184.2
Std Dev 0
3
2
1
0
−1
−2

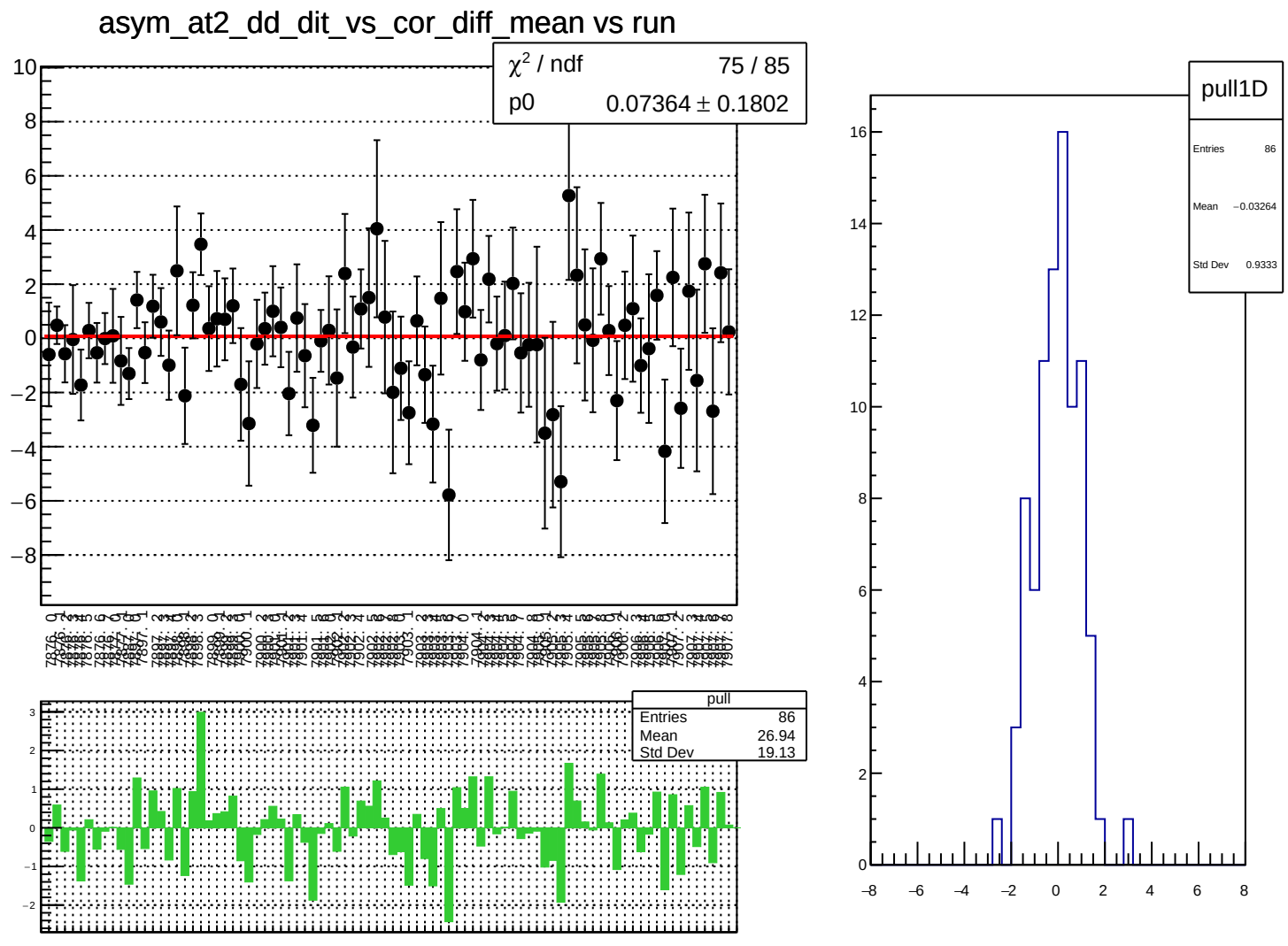

pull1D
Entries 86
Mean 0.005848
Std Dev 0.9688
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

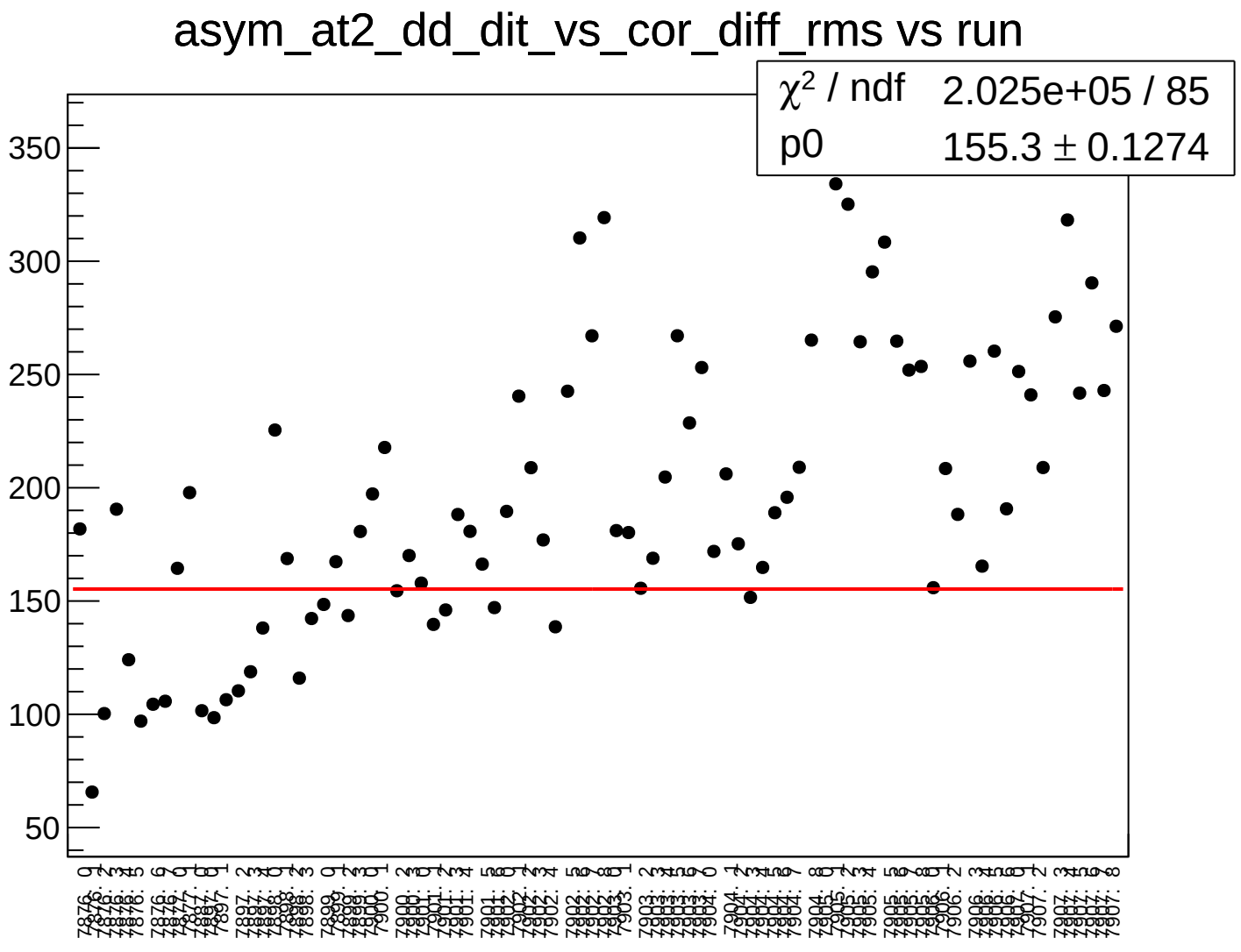

asym_at2_dd_rms vs run
χ² / ndf 1.49e+04 / 85
p0 3814 ± 2.949
4800
4600
4400
4200
4000
3800
3600
3400
3200

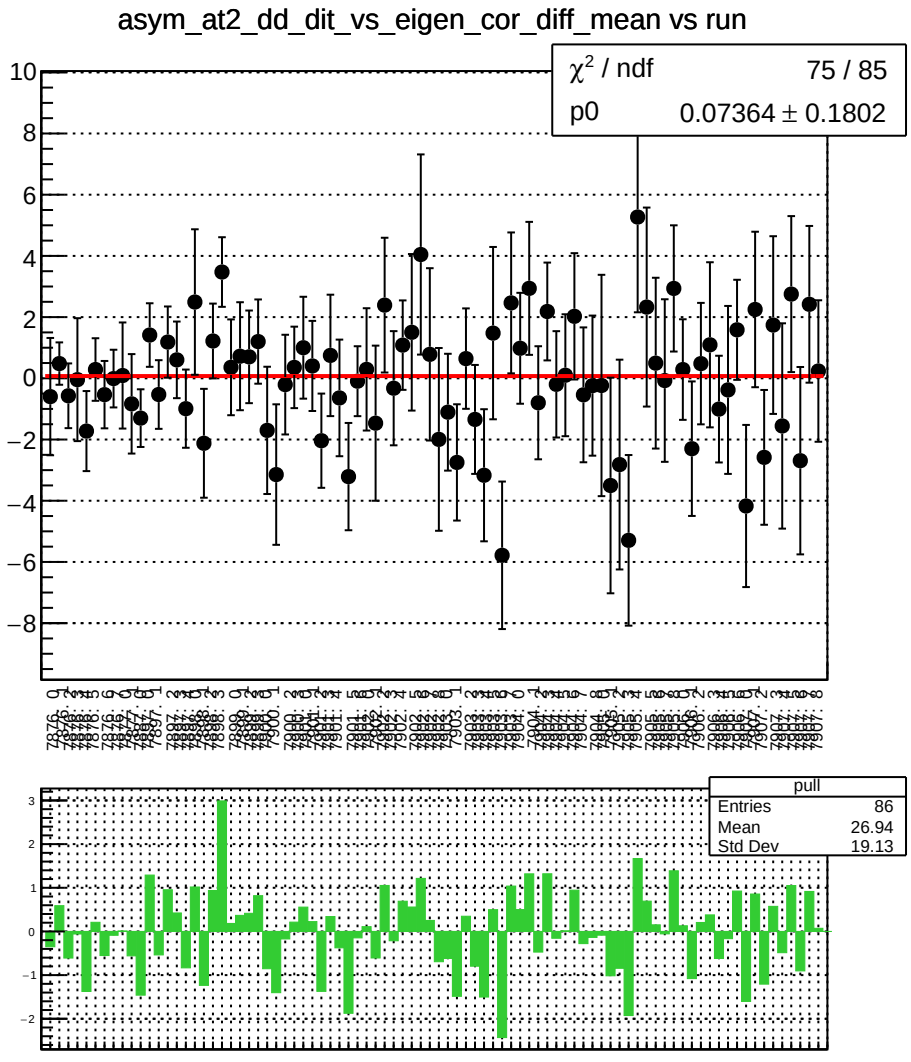

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.41 / 85
p0 5.618e−13 ± 3.116e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 86
Mean −21.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

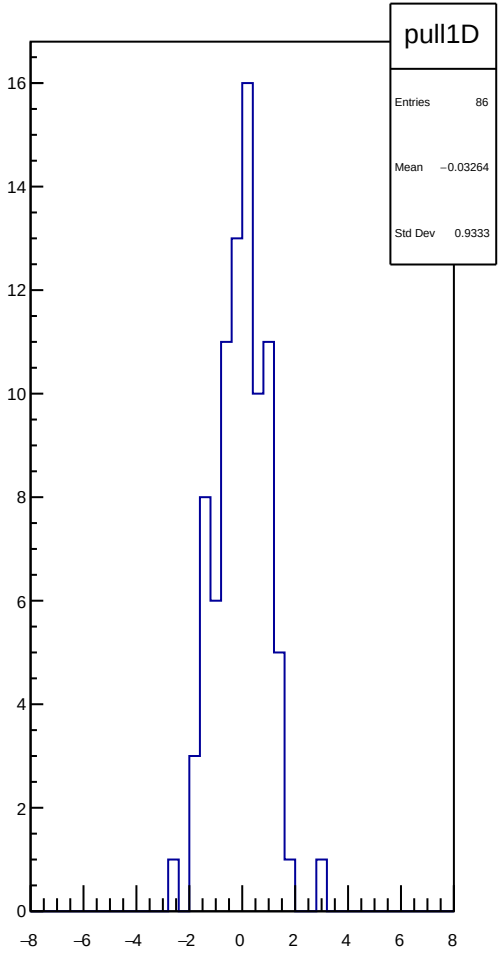

pull1D
Entries 86
Mean 0.04805
Std Dev 0.9777
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

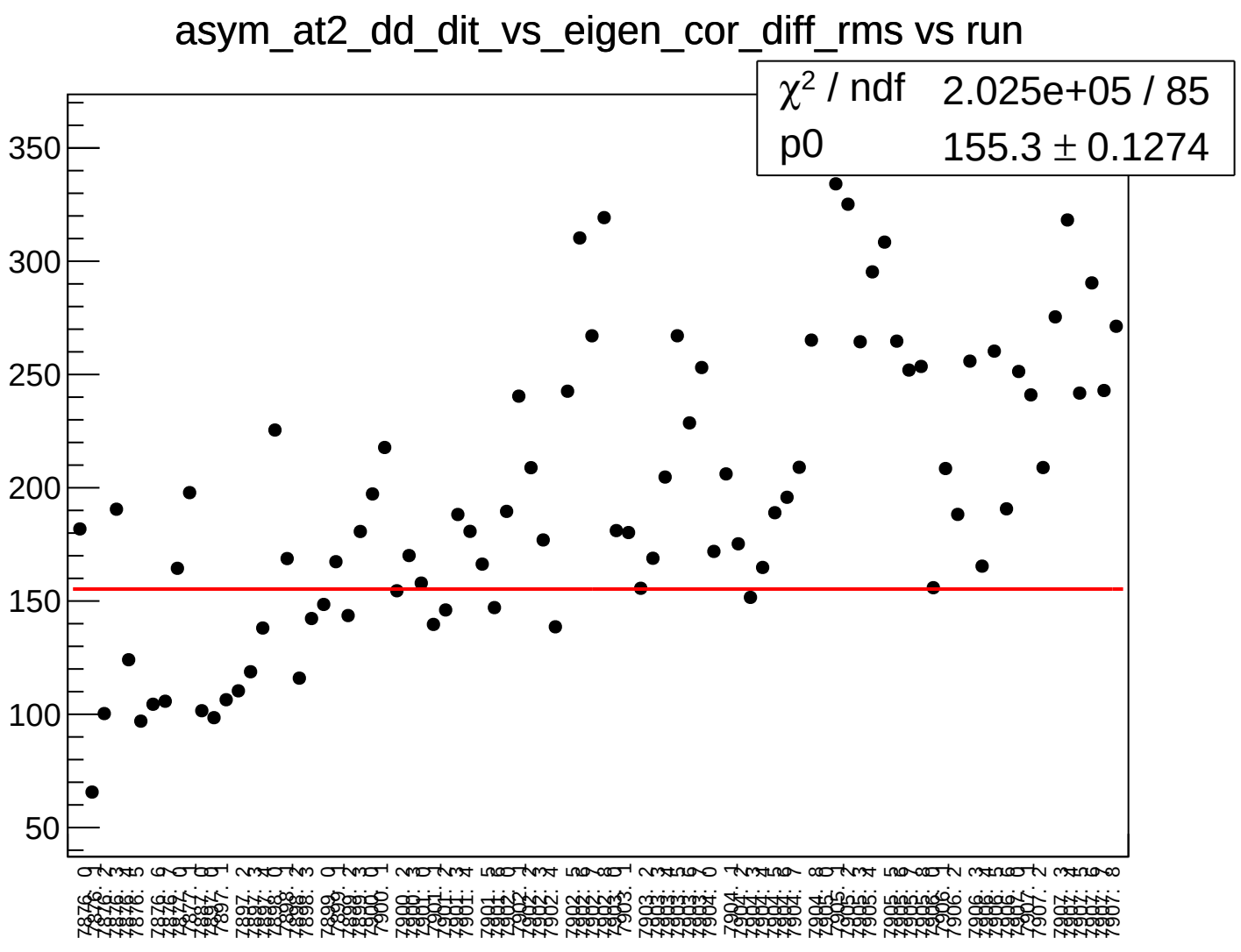

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.427e+06 / 85
p0 1.125e−10 ± 2.203e−13
1
0.8
0.6
0.4
0.2
0

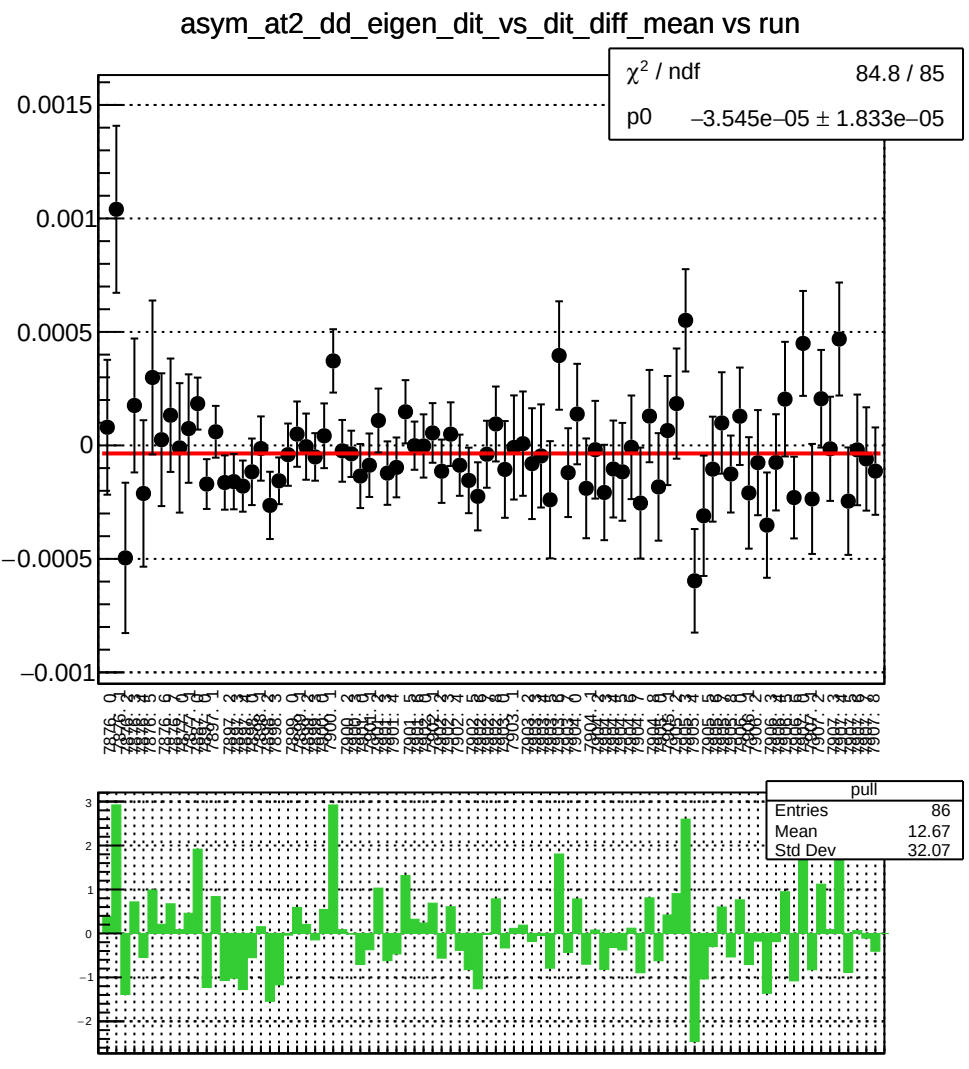

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75 / 85
p0 0.07364 ± 0.1802
pull
Entries 86
Mean 26.94
Std Dev 19.13
pull1D
Entries 86
Mean −0.03264
Std Dev 0.9333

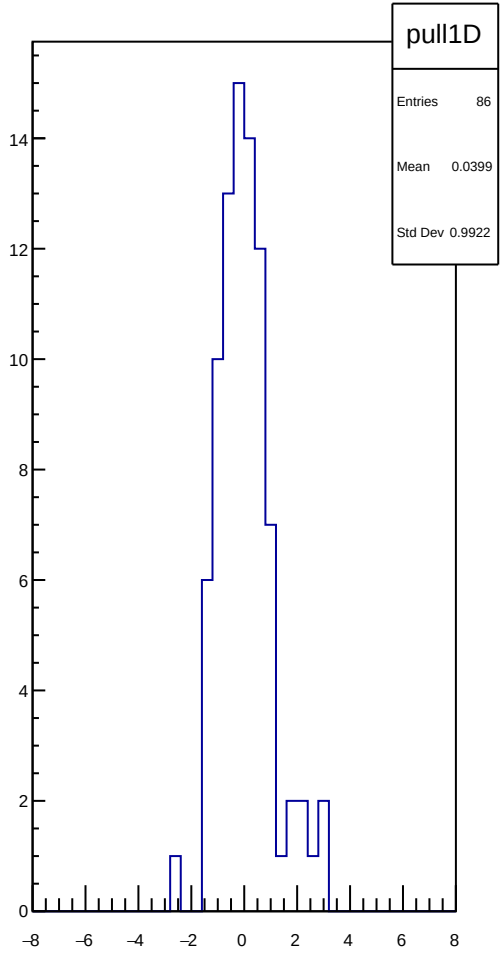

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 85
p0 155.3 ± 0.1274
350
300
250
200
150
100
50

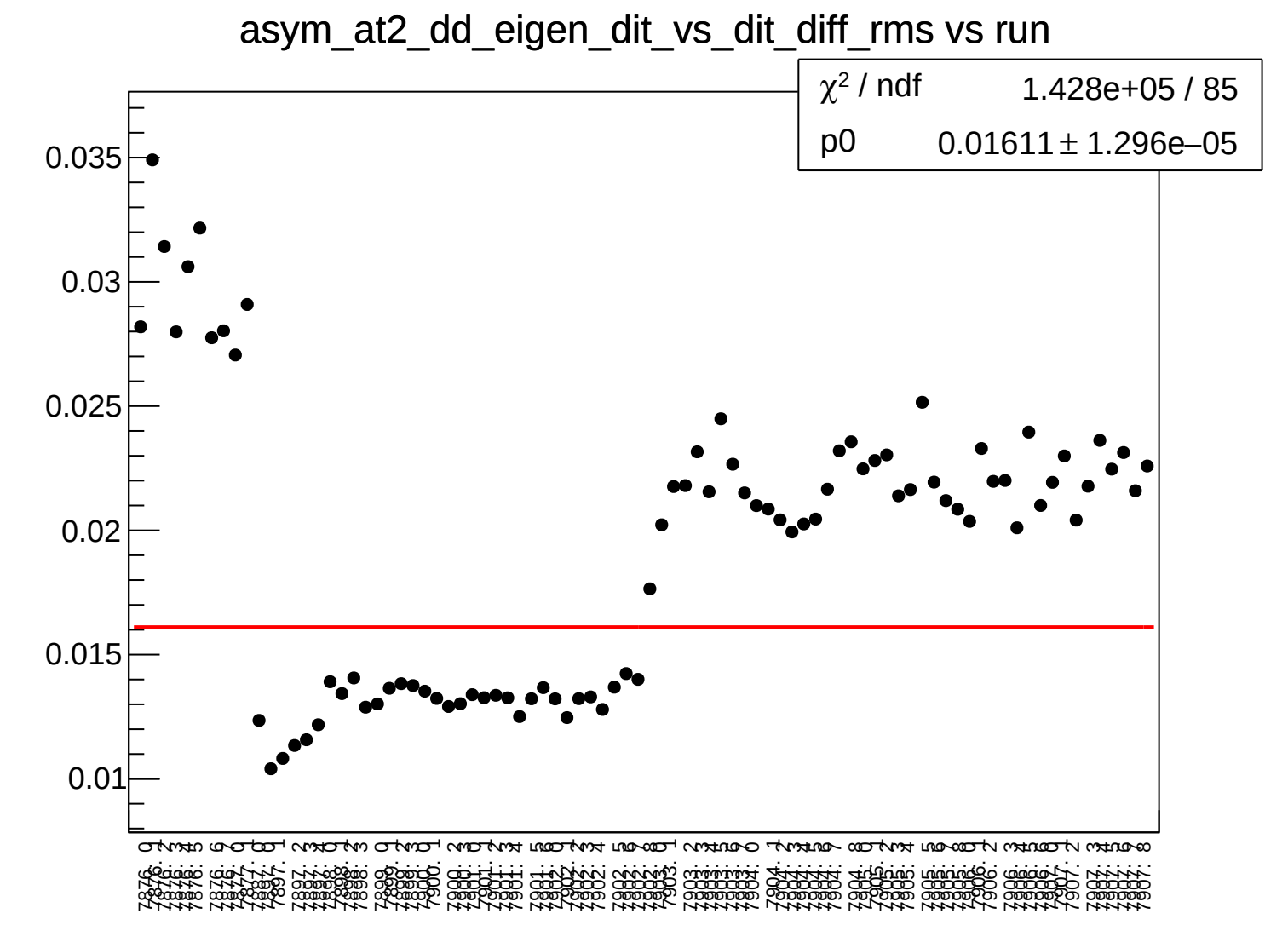

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75 / 85
p0 0.07364 ± 0.1802
pull
Entries 86
Mean 26.94
Std Dev 19.13

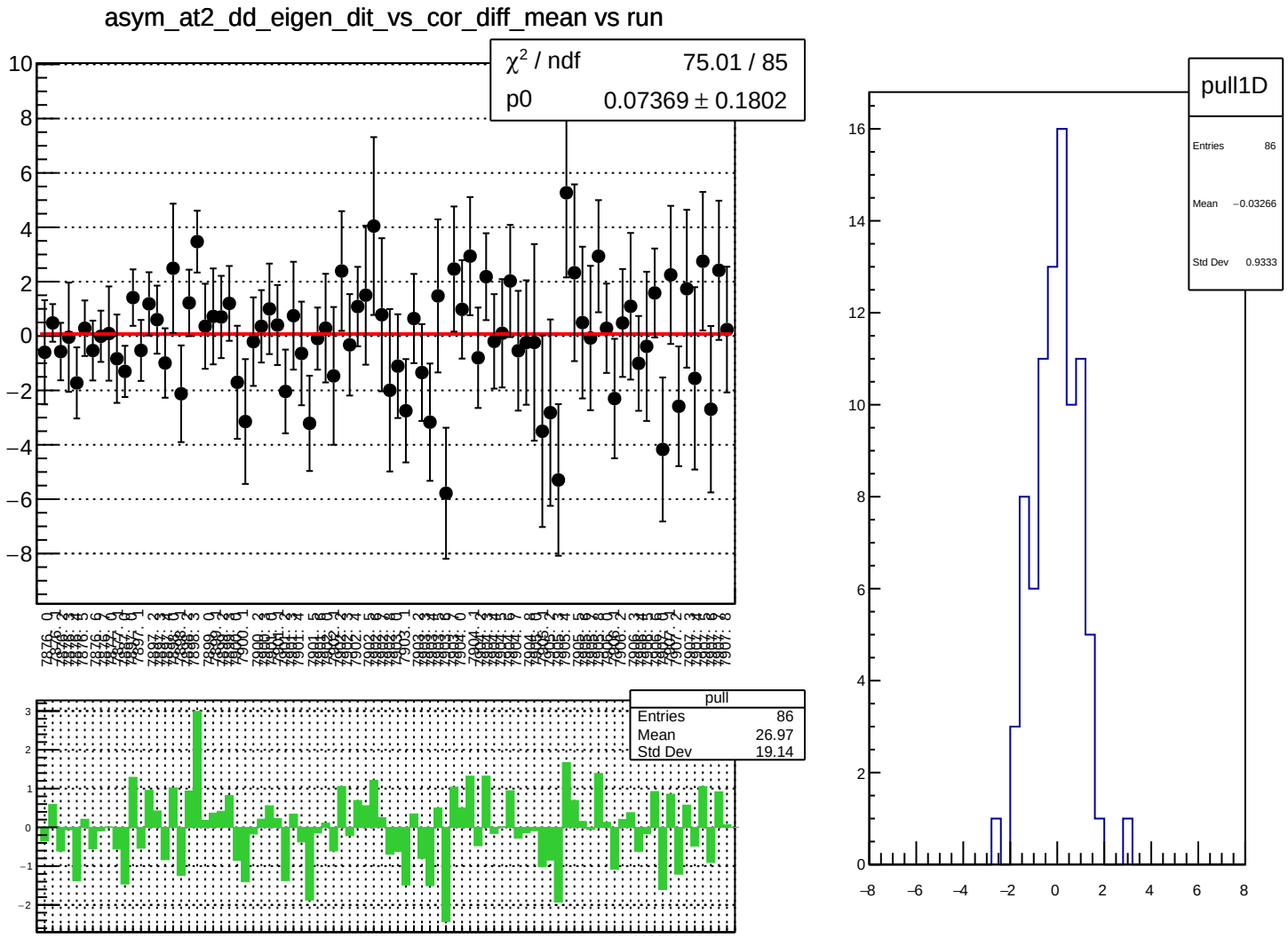

pull1D
Entries 86
Mean −0.03264
Std Dev 0.9333

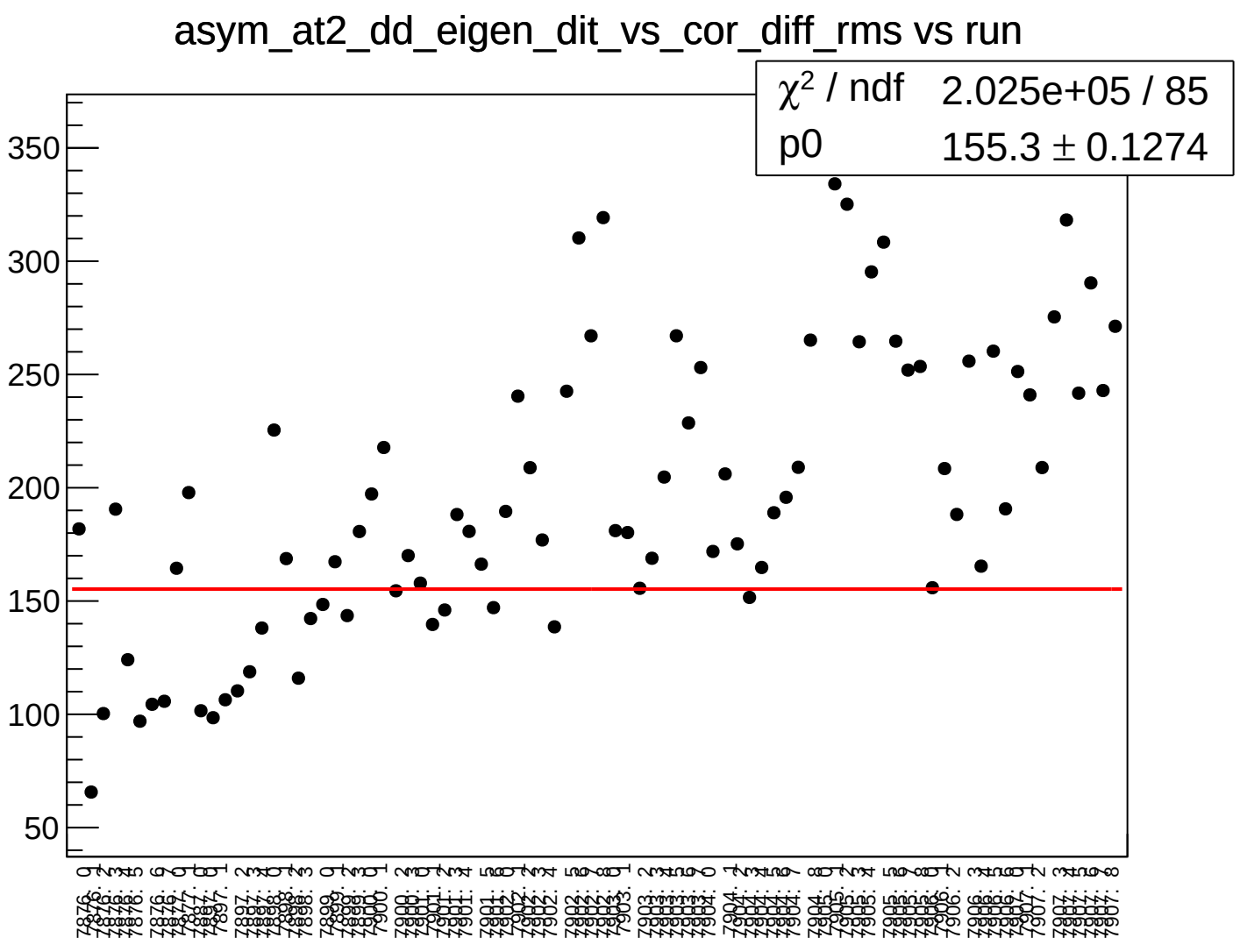

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 85
p0 155.3 ± 0.1274
350
300
250
200
150
100
50

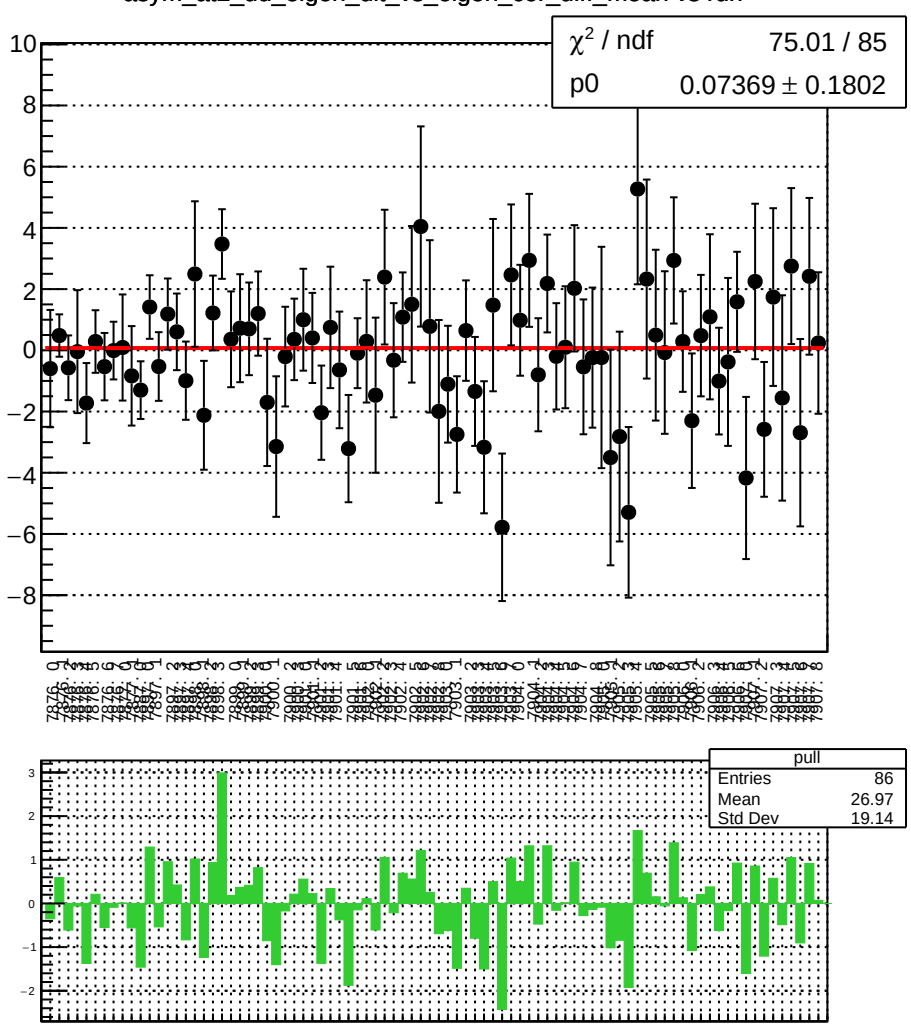

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.8 / 85
p0 −3.545e−05 ± 1.833e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 12.67
Std Dev 32.07
3
2
1
0
−1
−2

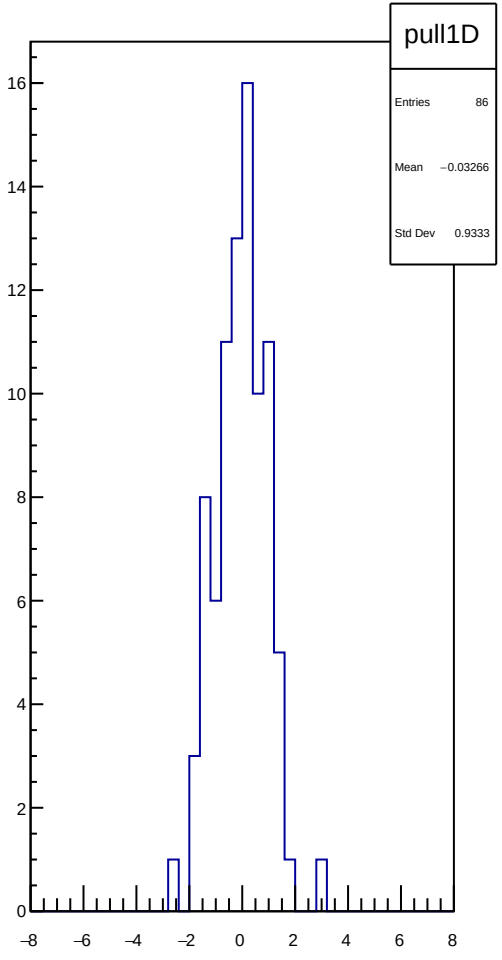

pull1D
Entries 86
Mean 0.0399
Std Dev 0.9922
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

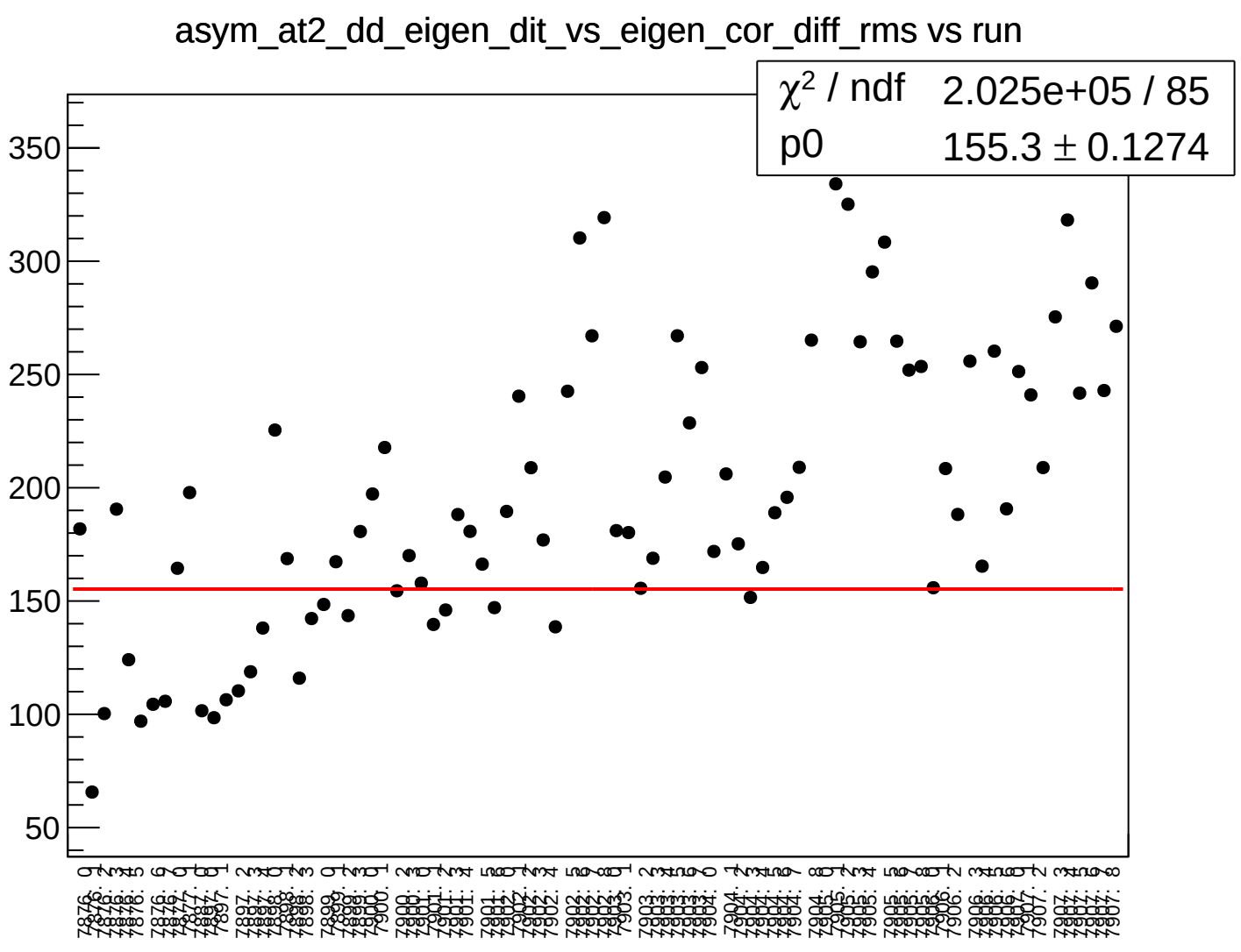

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.428e+05 / 85
p0 0.01611 ± 1.296e−05
0.035
0.03
0.025
0.02
0.015
0.01

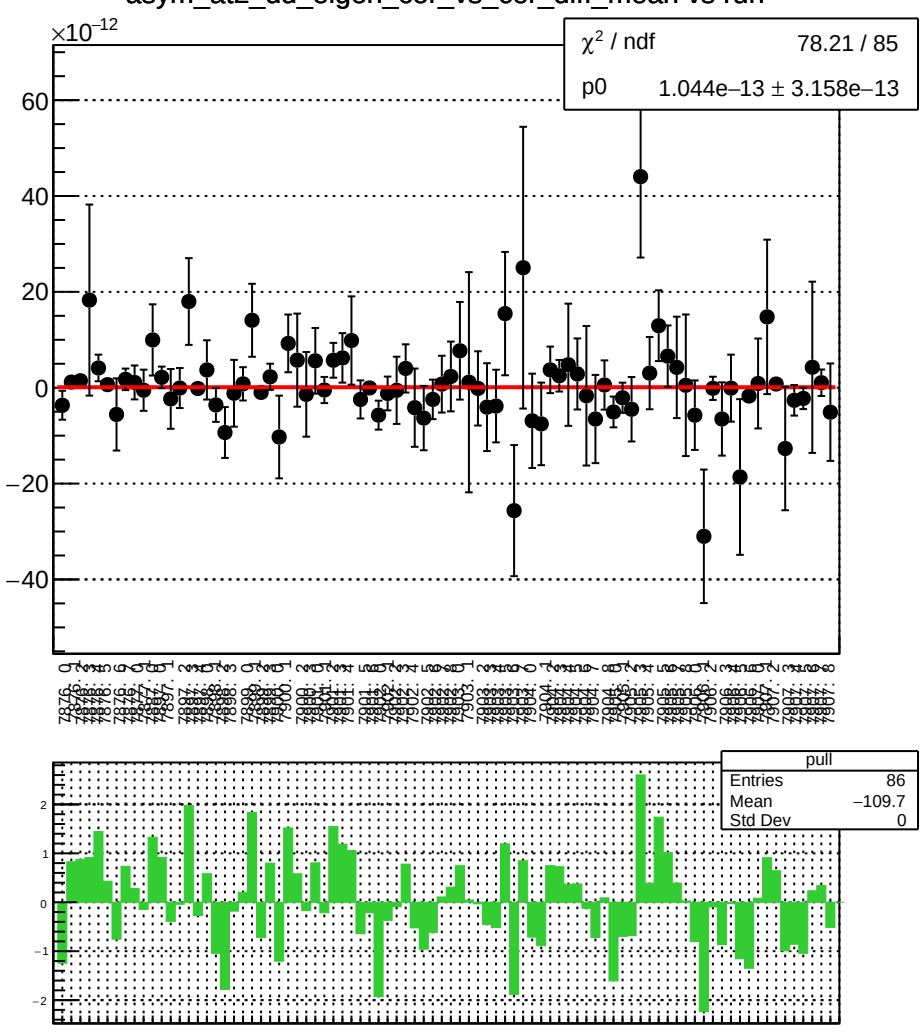

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.01 / 85
p0 0.07369 ± 0.1802
pull
Entries 86
Mean 26.97
Std Dev 19.14
pull1D
Entries 86
Mean −0.03266
Std Dev 0.9333

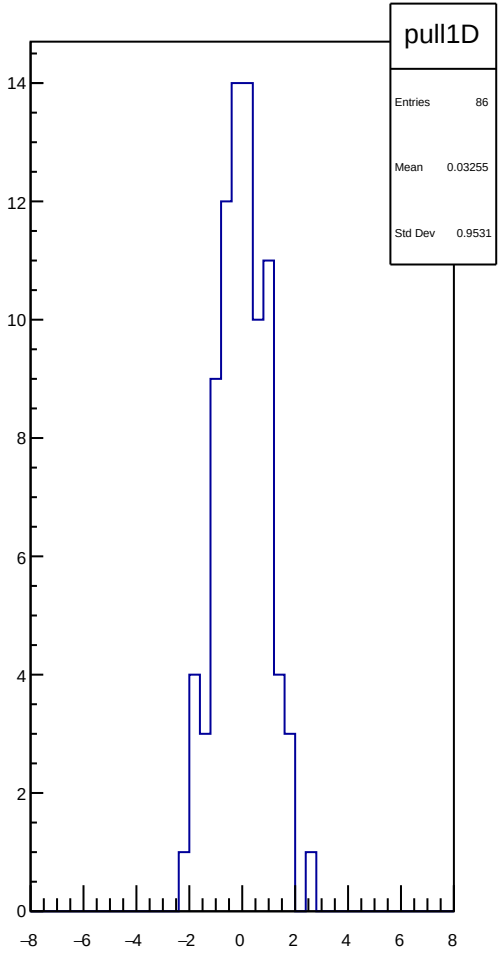

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 85
p0 155.3 ± 0.1274
350
300
250
200
150
100
50

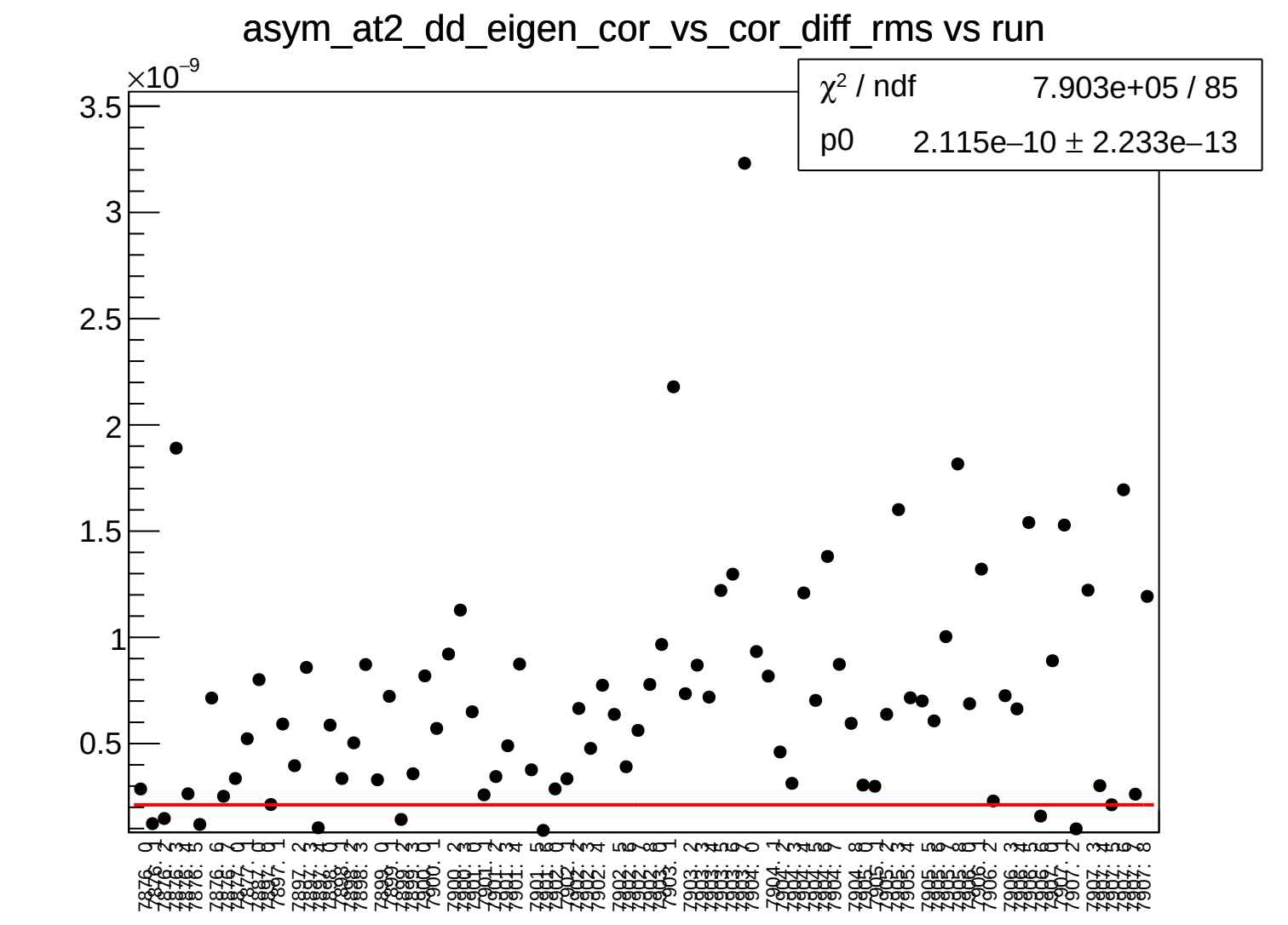

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.01 / 85
p0 0.07369 ± 0.1802
pull
Entries 86
Mean 26.97
Std Dev 19.14

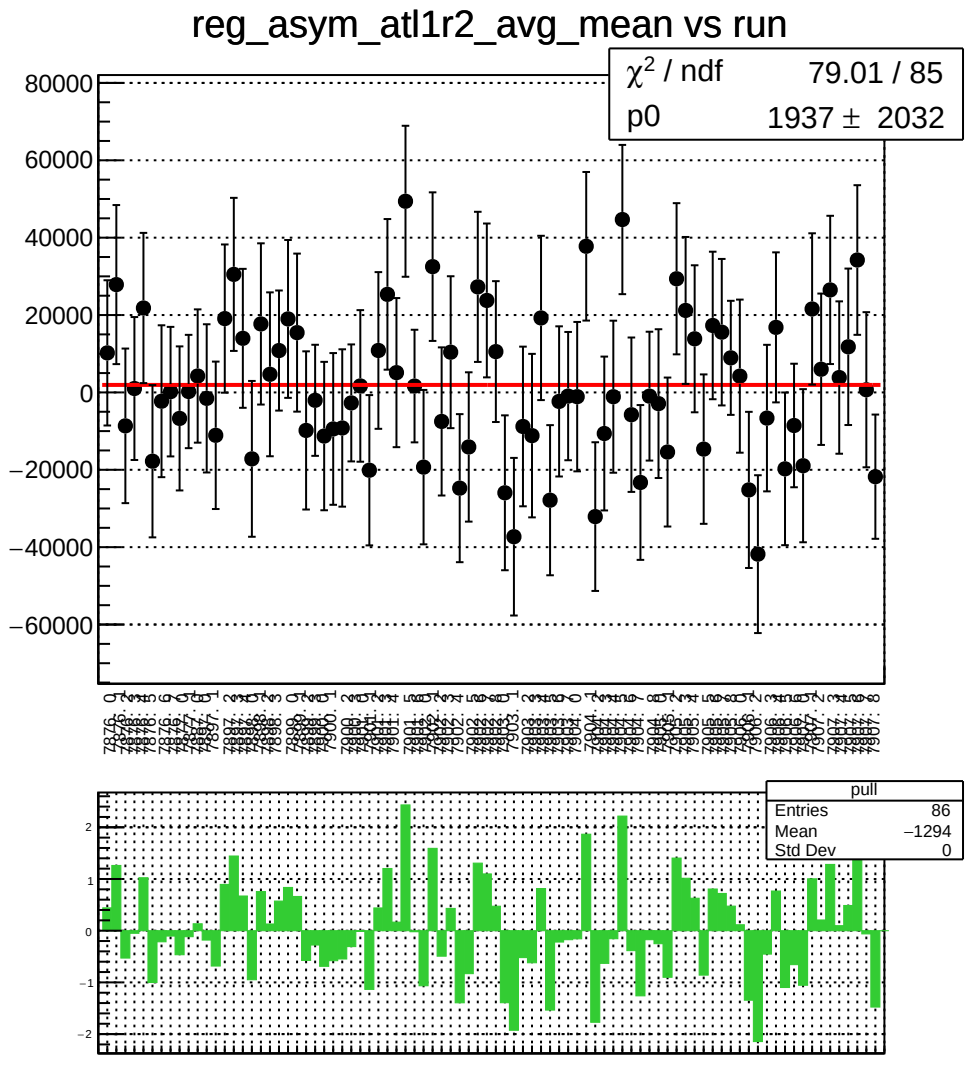

pull1D
Entries 86
Mean −0.03266
Std Dev 0.9333

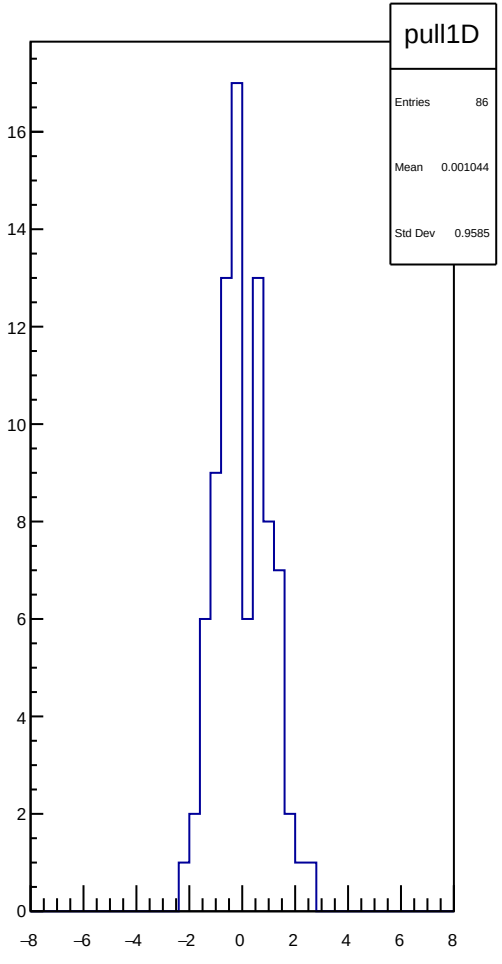

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 85
p0 155.3 ± 0.1274
350
300
250
200
150
100
50

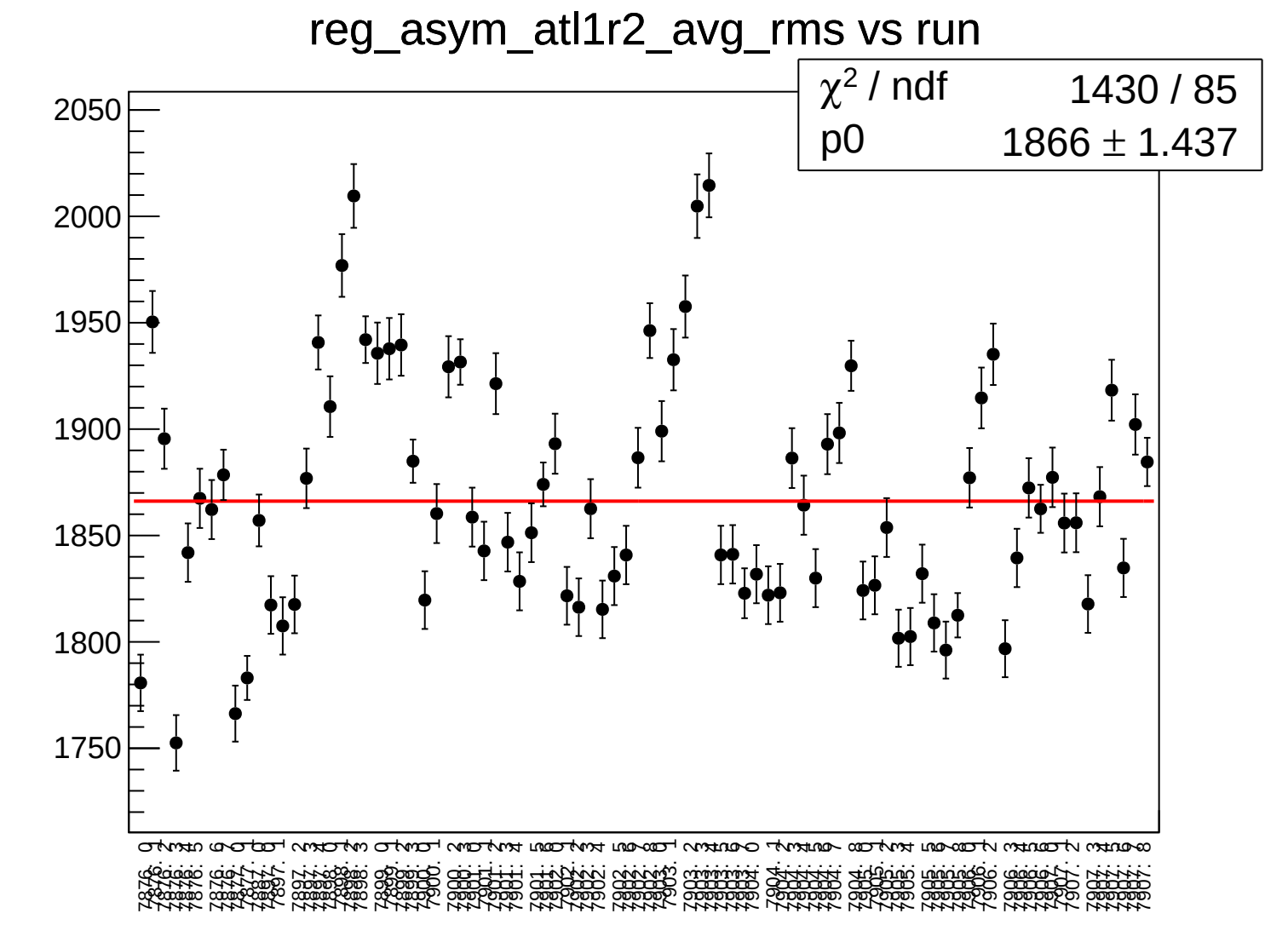

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.21 / 85
p0 1.044e−13 ± 3.158e−13
60
40
20
0
−20
−40
pull
Entries 86
Mean −109.7
Std Dev 0
2
1
0
−1
−2

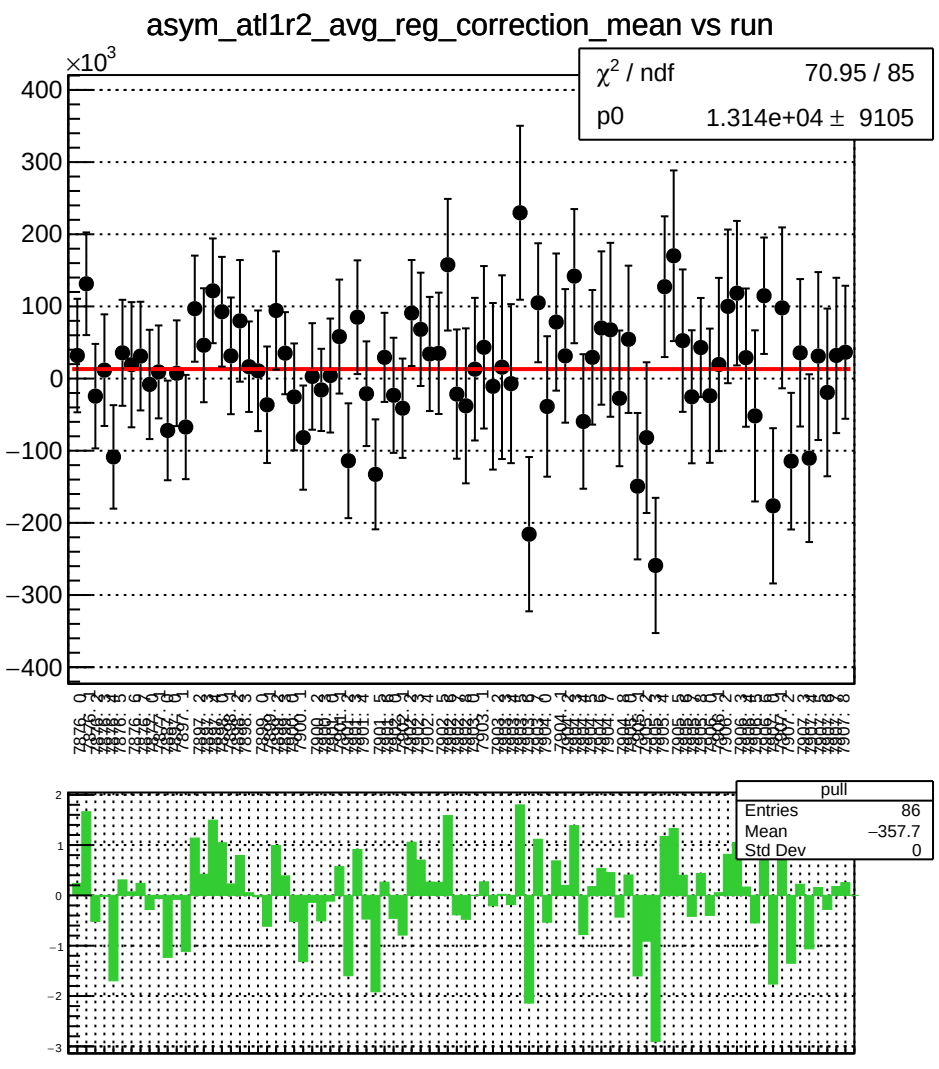

pull1D
Entries 86
Mean 0.03255
Std Dev 0.9531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

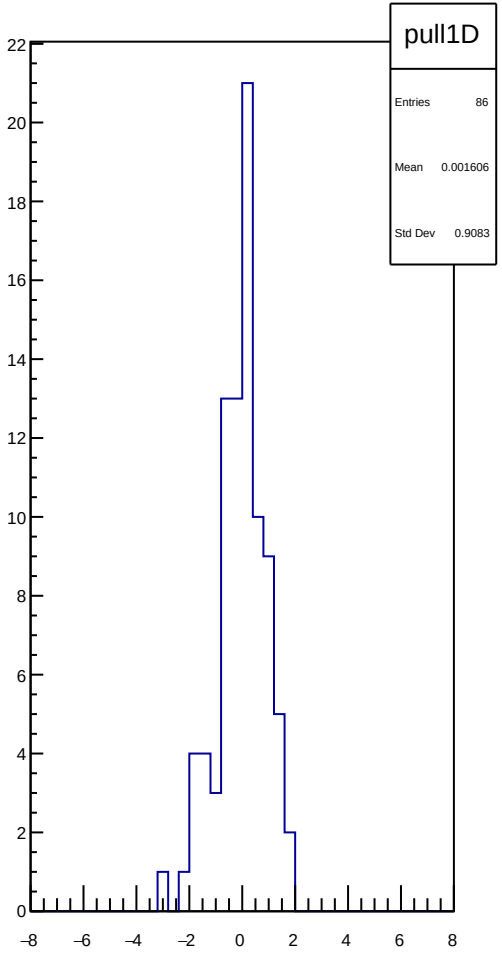

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.903e+05 / 85
p0 2.115e−10 ± 2.233e−13
3.5
3
2.5
2
1.5
1
0.5

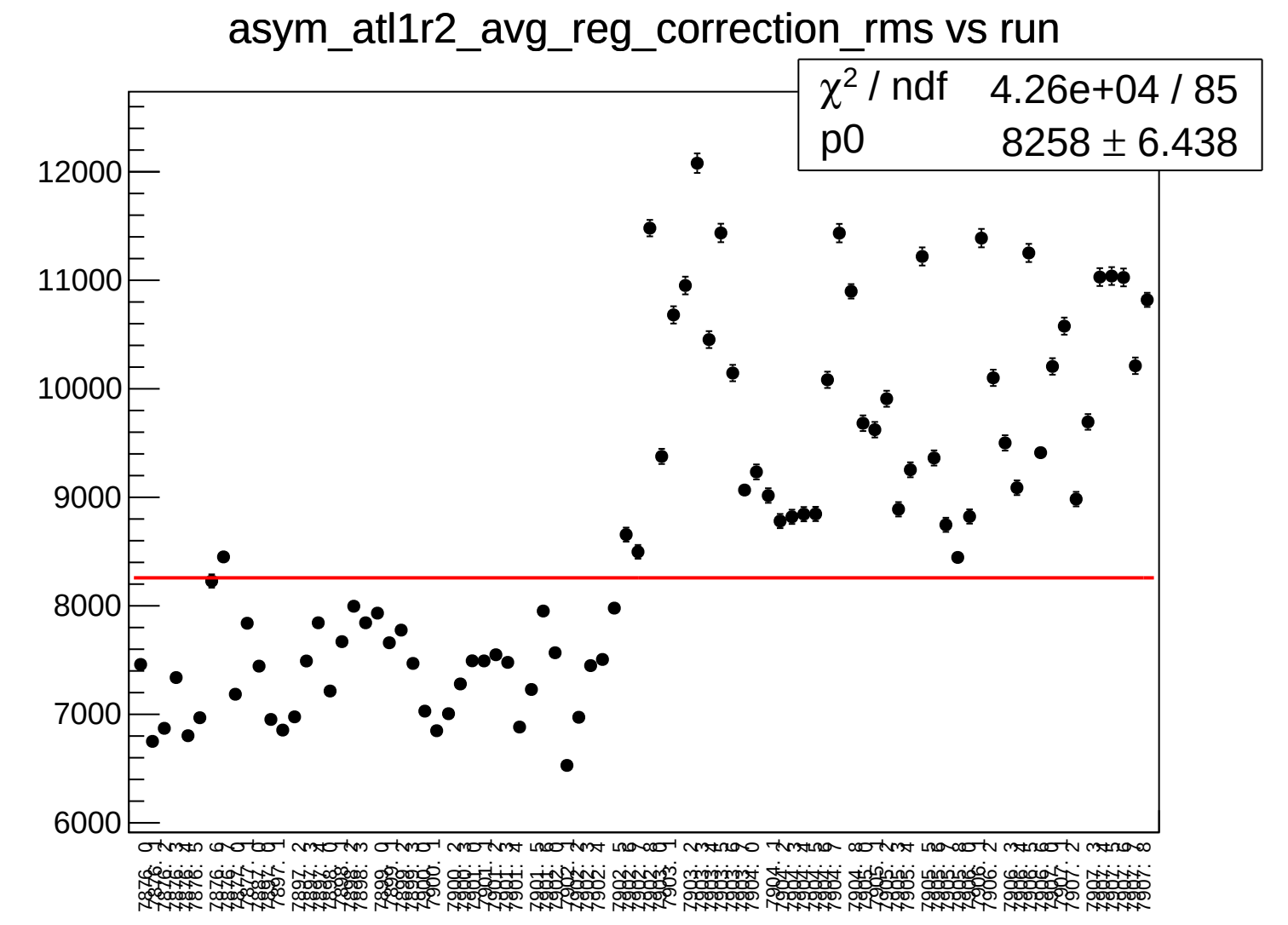

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 79.01 / 85
p0 1937 ± 2032
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1294
Std Dev 0
2
1
0
−1
−2

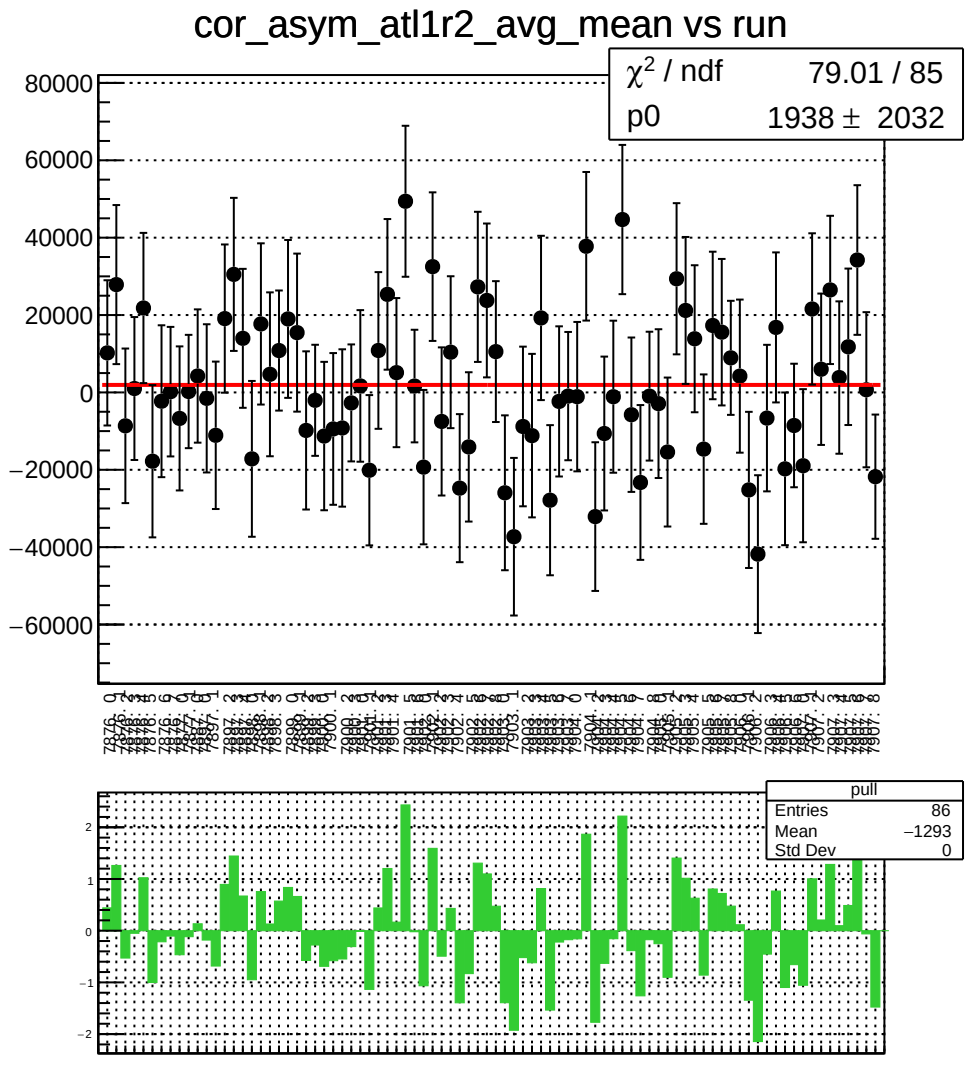

pull1D
Entries 86
Mean 0.001044
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

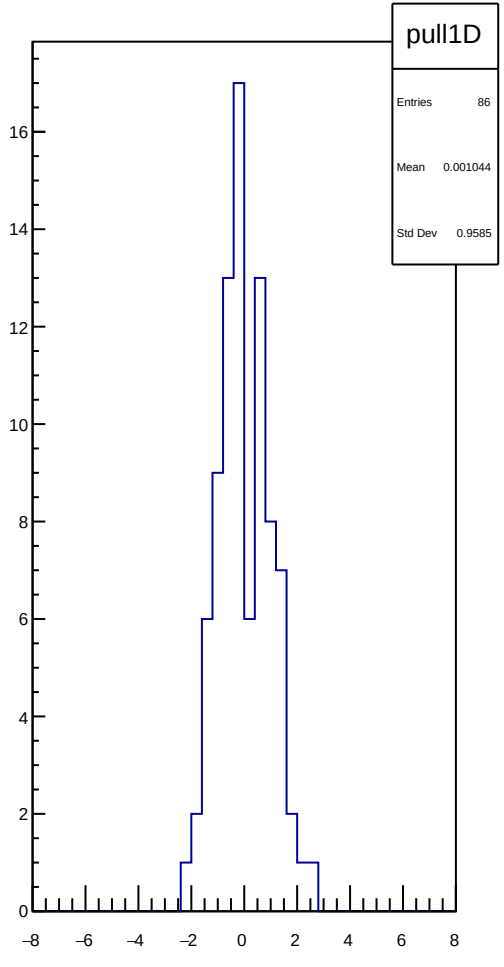

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1430 / 85
p0 1866 ± 1.437
2050
2000
1950
1900
1850
1800
1750

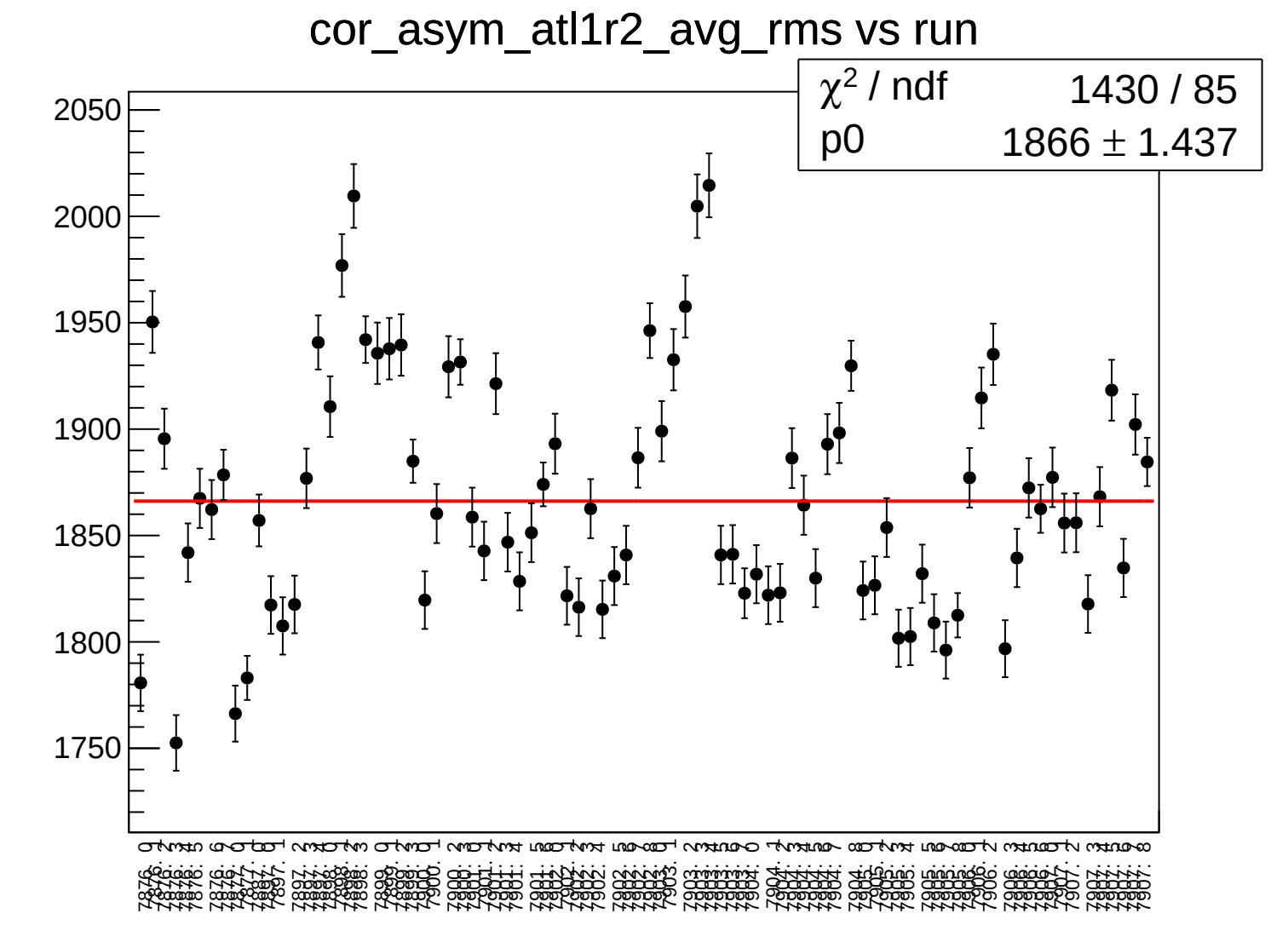

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 70.95 / 85
p0 1.314e+04 ± 9105
pull
Entries 86
Mean −357.7
Std Dev 0

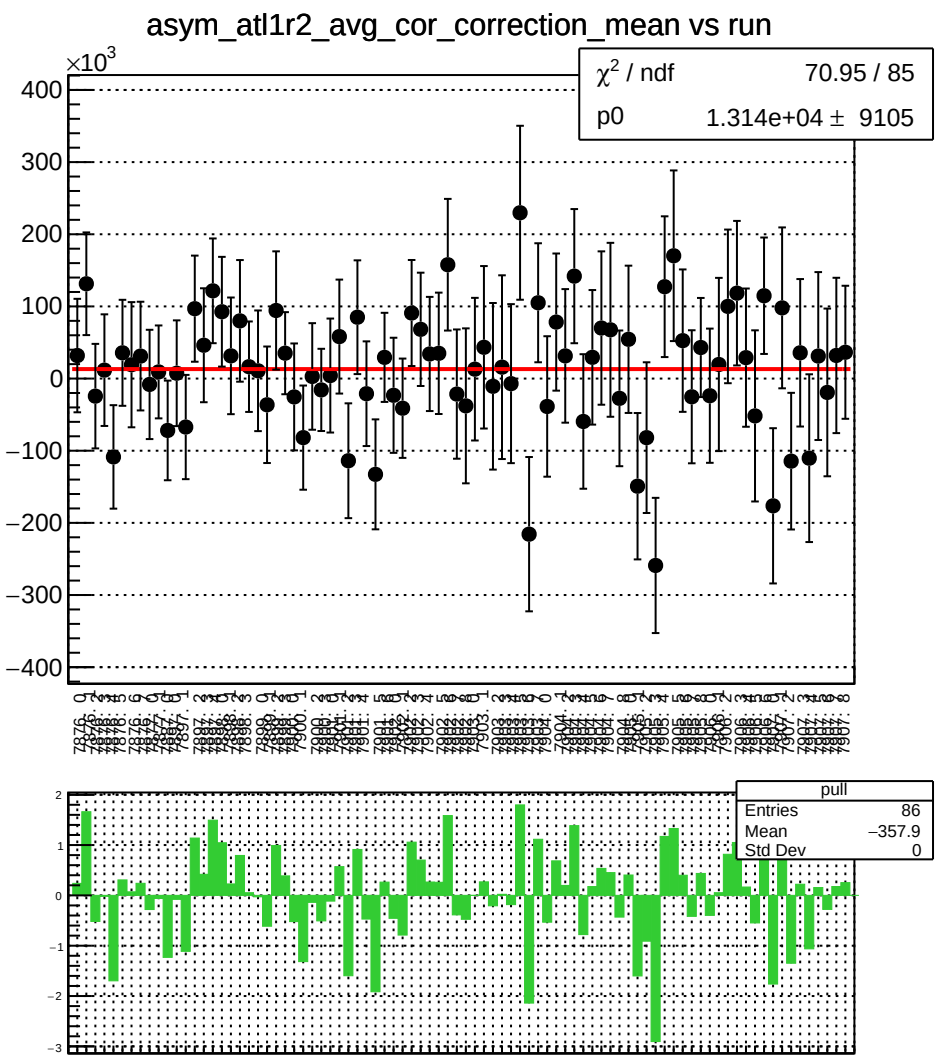

pull1D
Entries 86
Mean 0.001606
Std Dev 0.9083

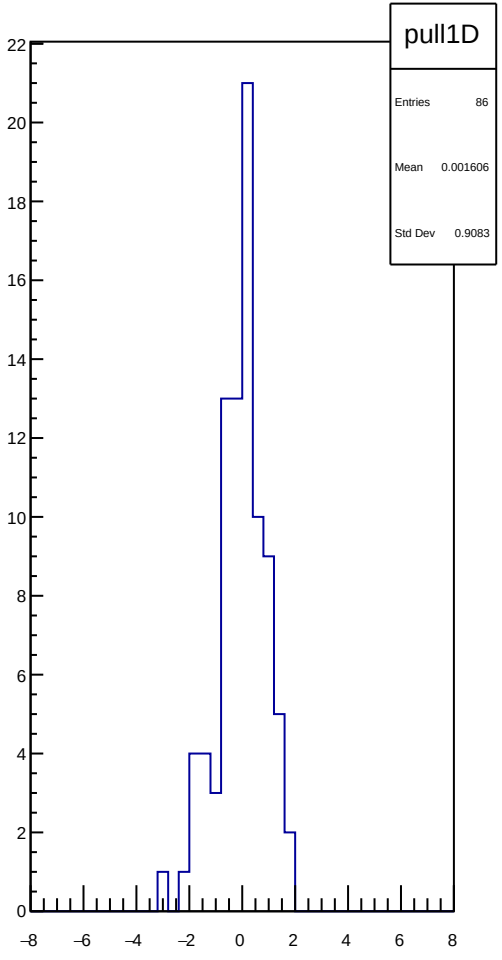

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 4.26e+04 / 85
p0 8258 ± 6.438
12000
11000
10000
9000
8000
7000
6000

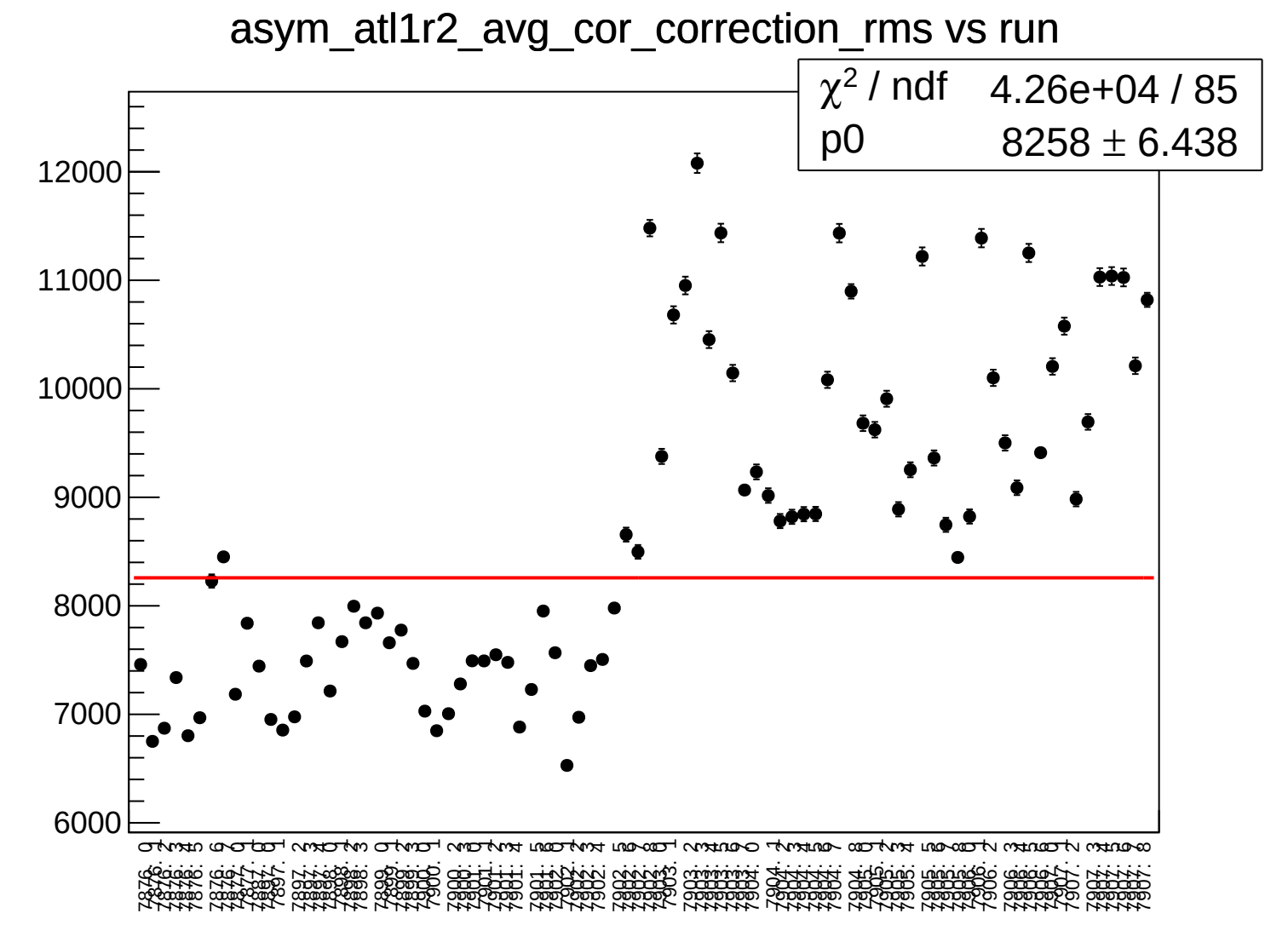

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 79.01 / 85
p0 1938 ± 2032
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1293
Std Dev 0
2
1
0
−1
−2

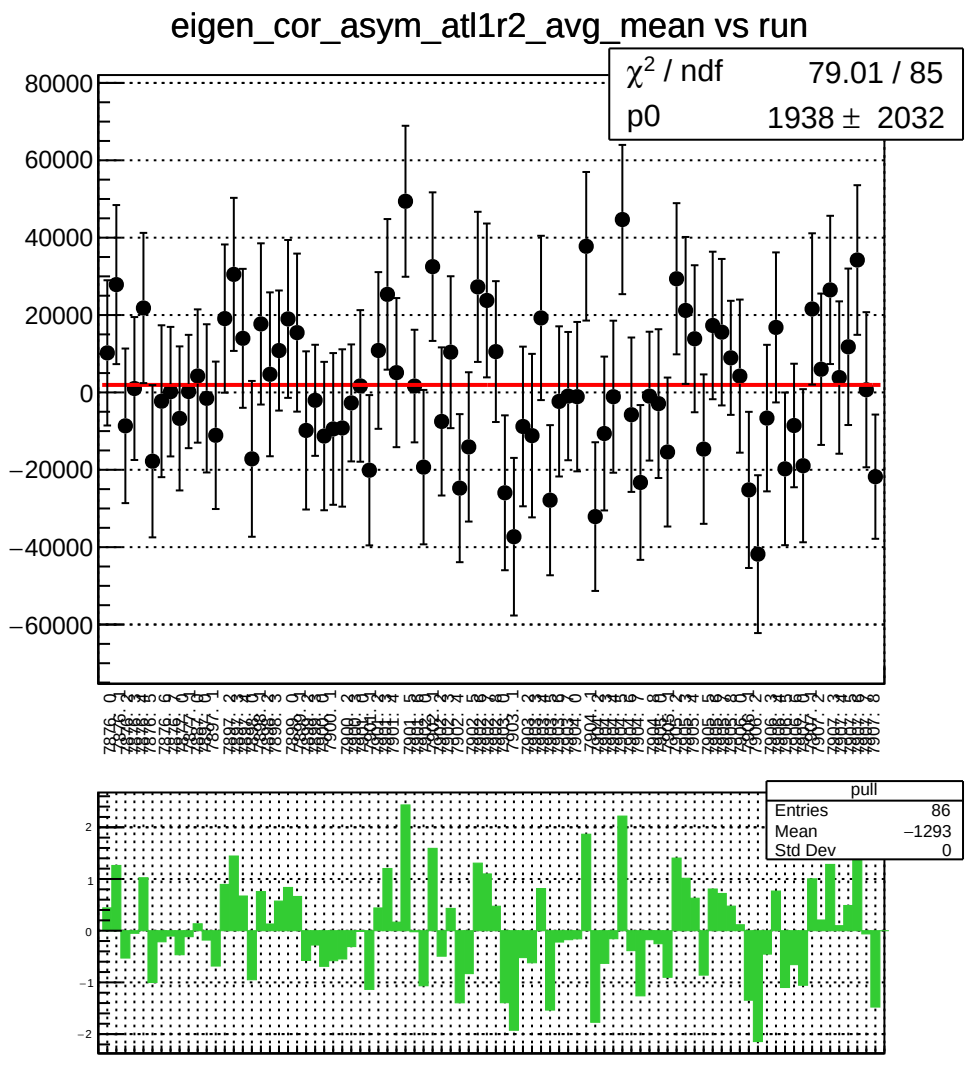

pull1D
Entries 86
Mean 0.001044
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

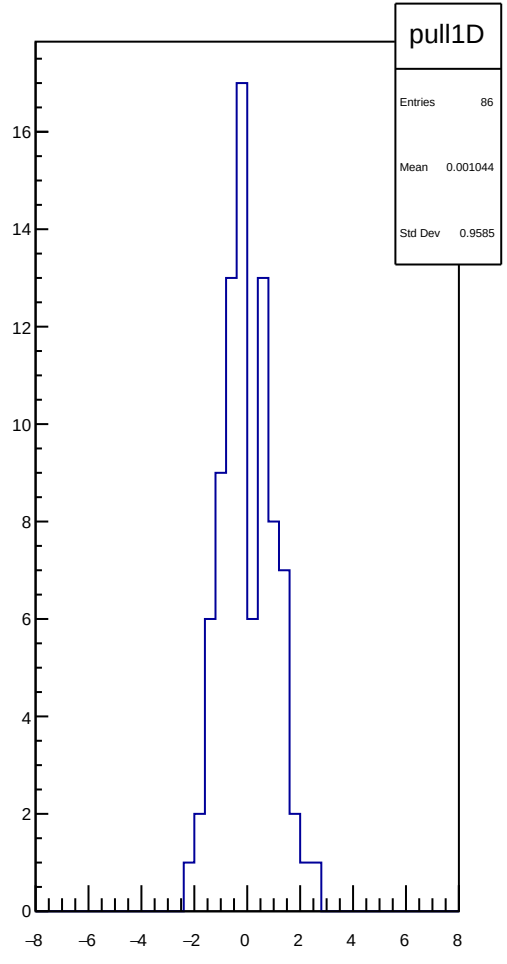

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1430 / 85
p0 1866 ± 1.437
2050
2000
1950
1900
1850
1800
1750

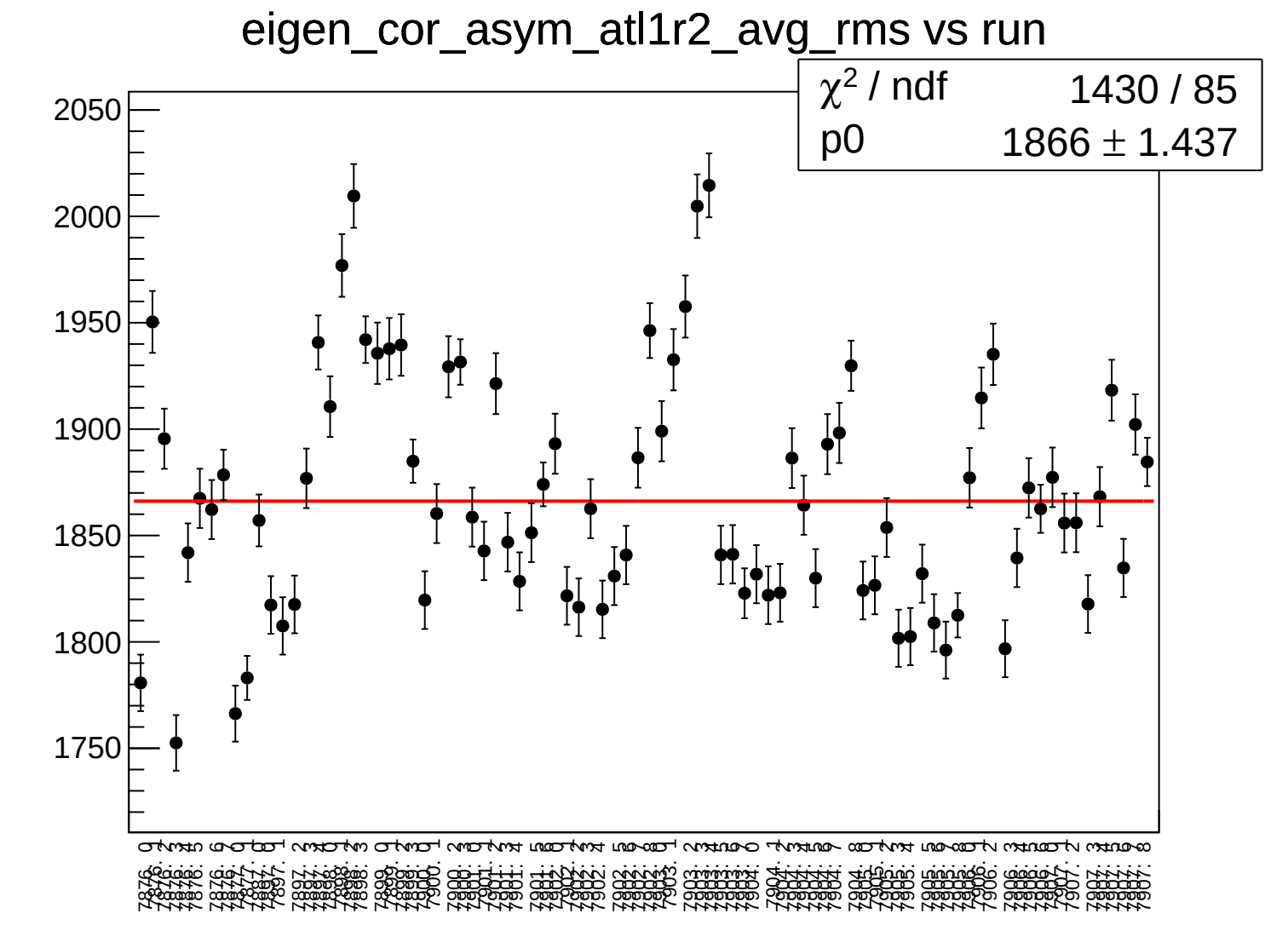

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 70.95 / 85
p0 1.314e+04 ± 9105
pull
Entries 86
Mean −357.9
Std Dev 0

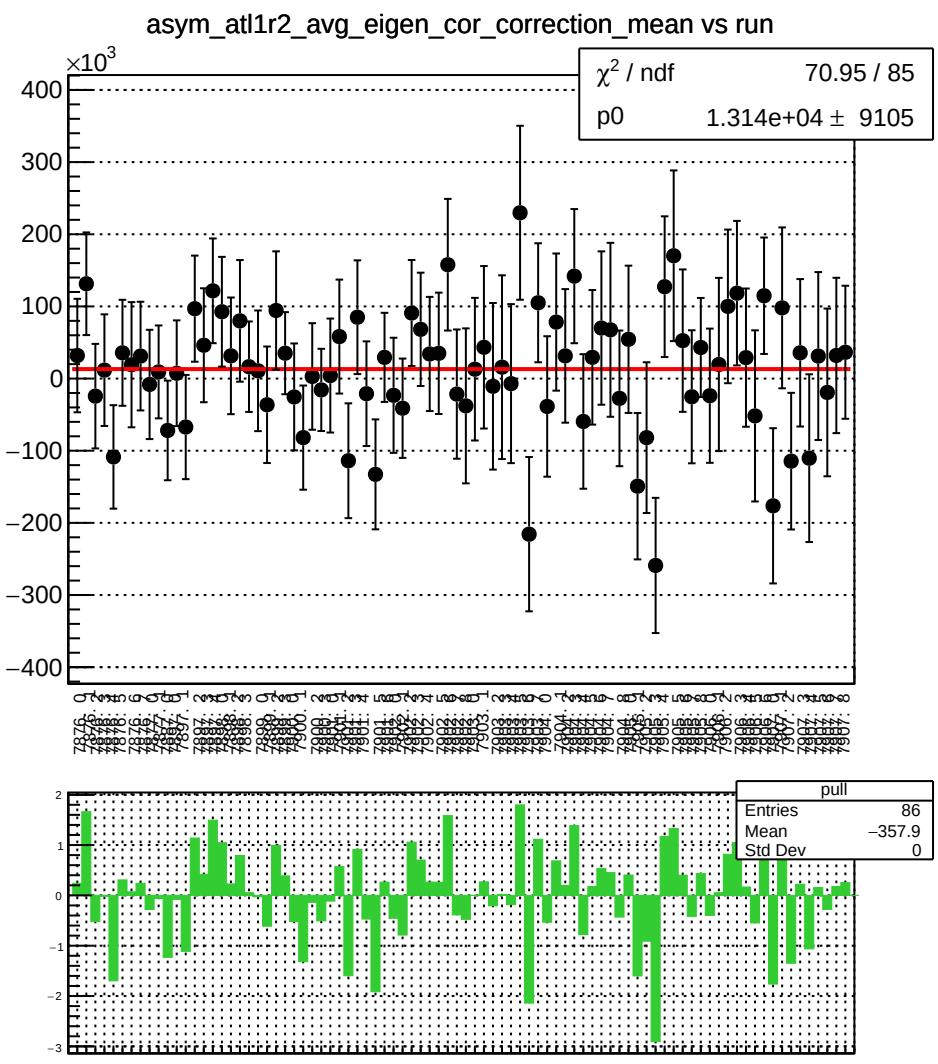

pull1D
Entries 86
Mean 0.001606
Std Dev 0.9083

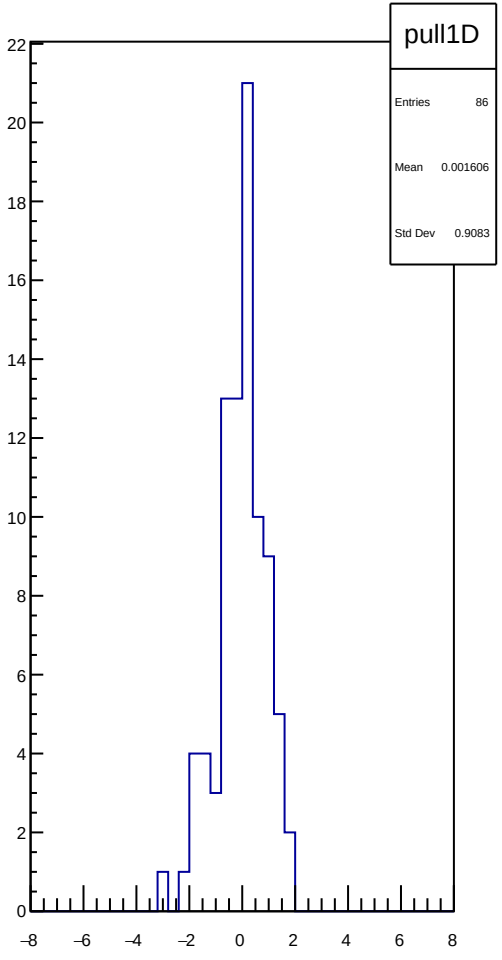

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 4.26e+04 / 85
p0 8258 ± 6.438
12000
11000
10000
9000
8000
7000
6000

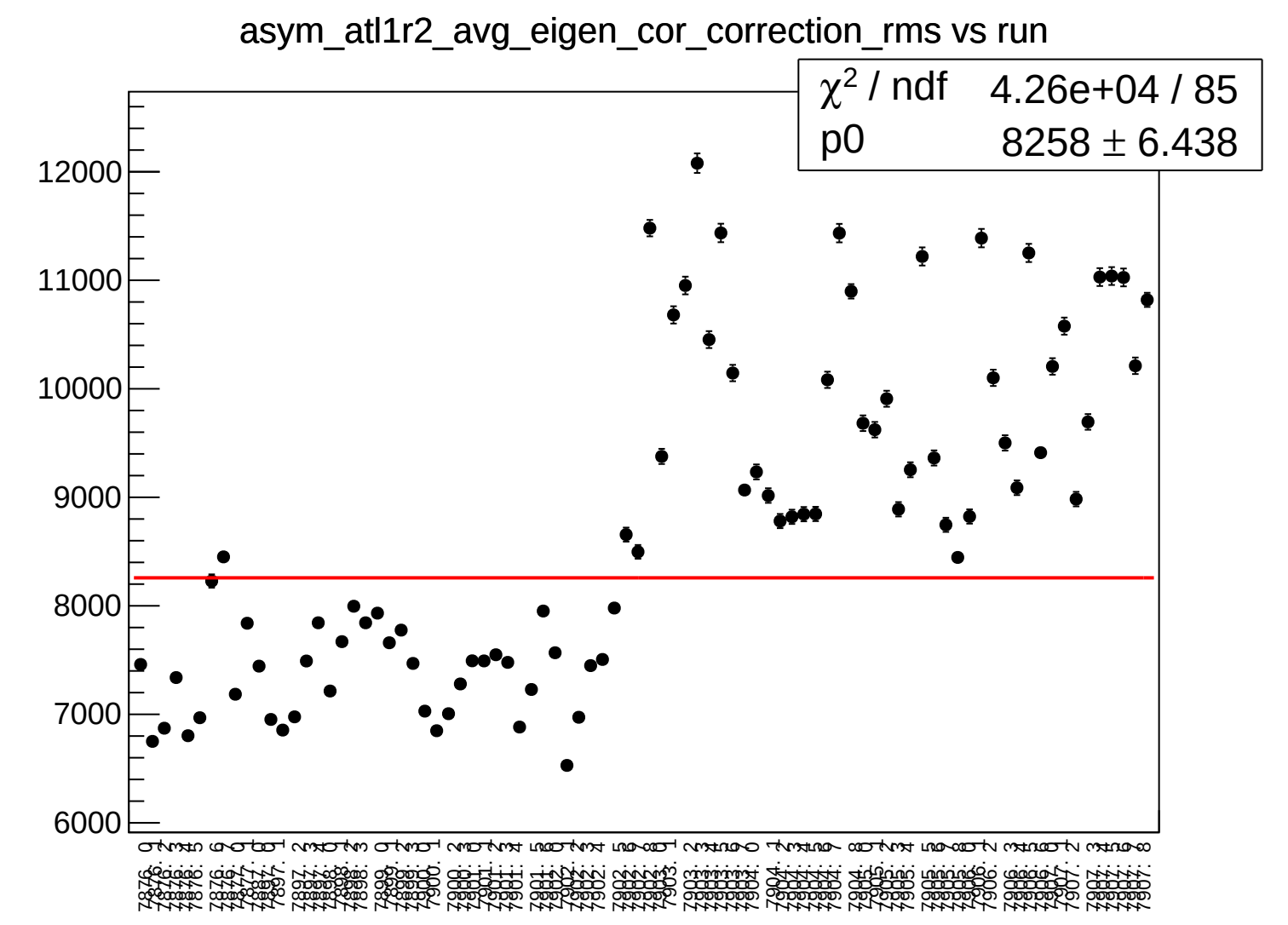

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 79.01 / 85
p0 1938 ± 2032
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1293
Std Dev 0
2
1
0
−1
−2

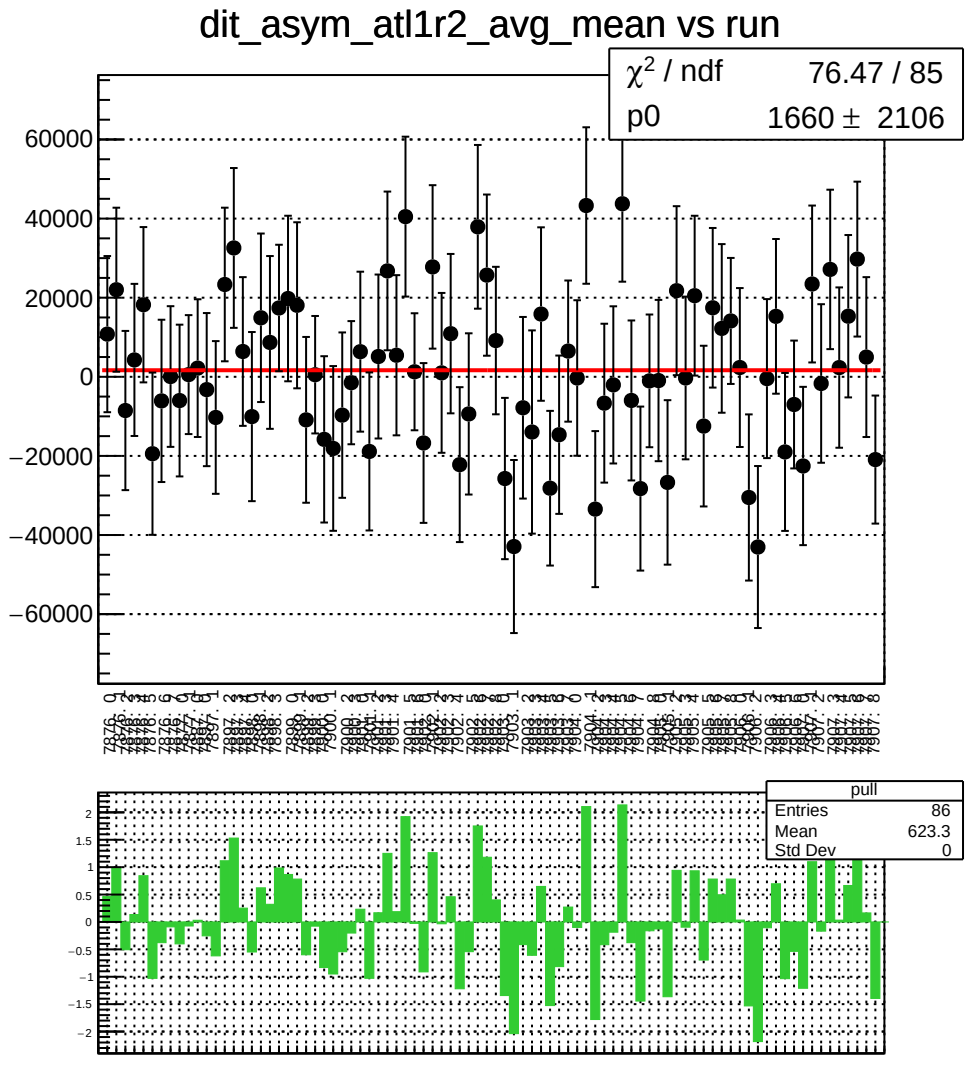

pull1D
Entries 86
Mean 0.001044
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

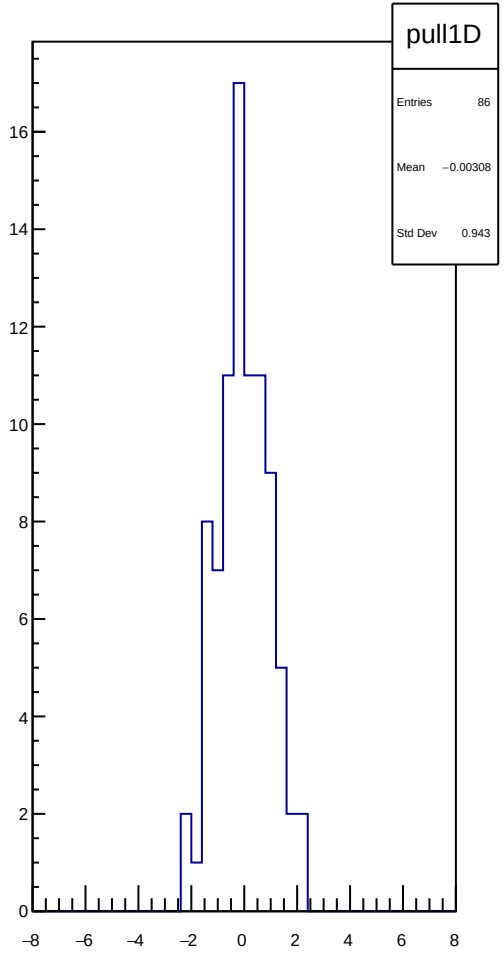

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 1430 / 85
p0 1866 ± 1.437
2050
2000
1950
1900
1850
1800
1750

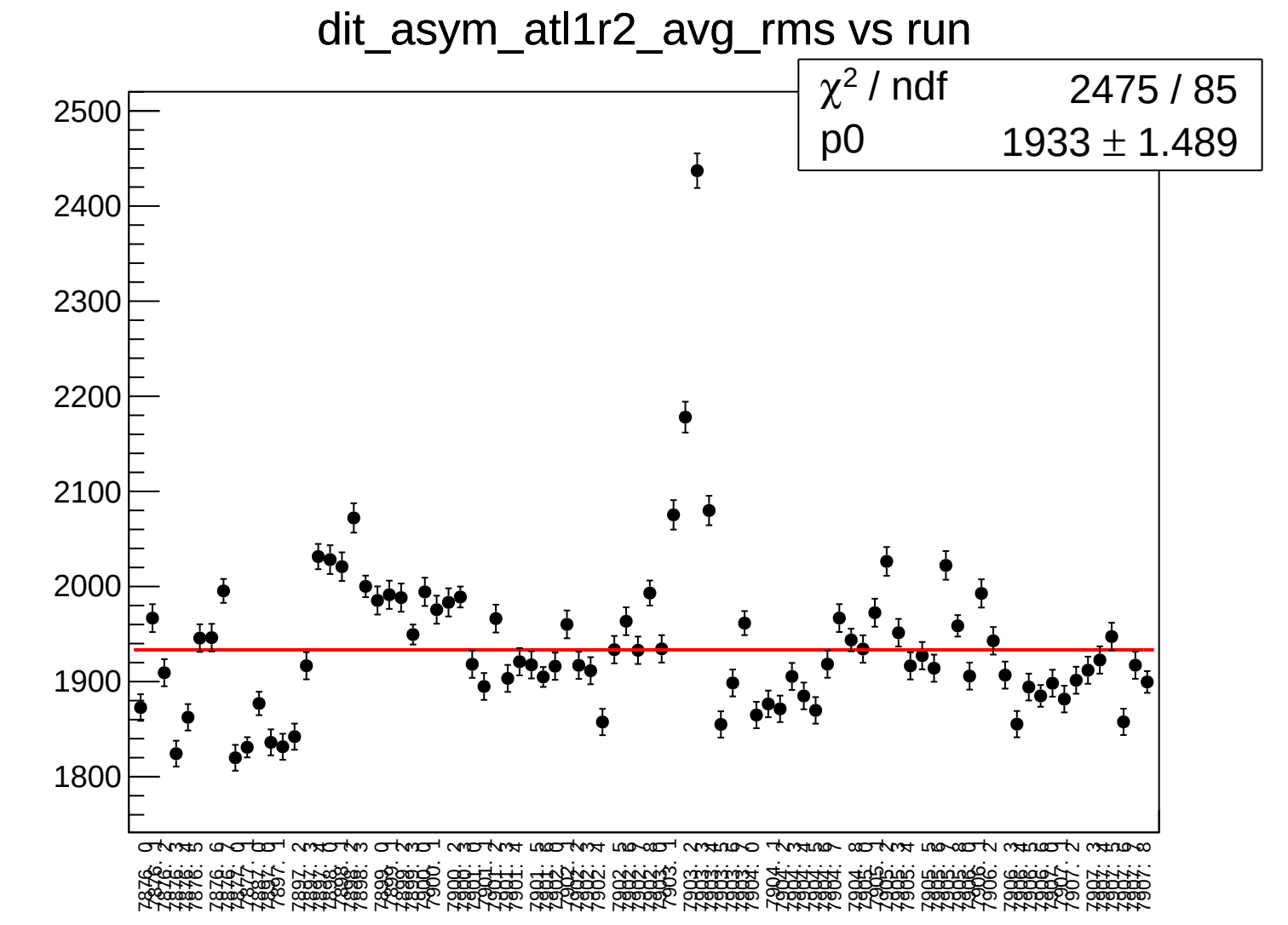

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.95 / 85
p0 1.314e+04 ± 9105
pull
Entries 86
Mean −357.9
Std Dev 0

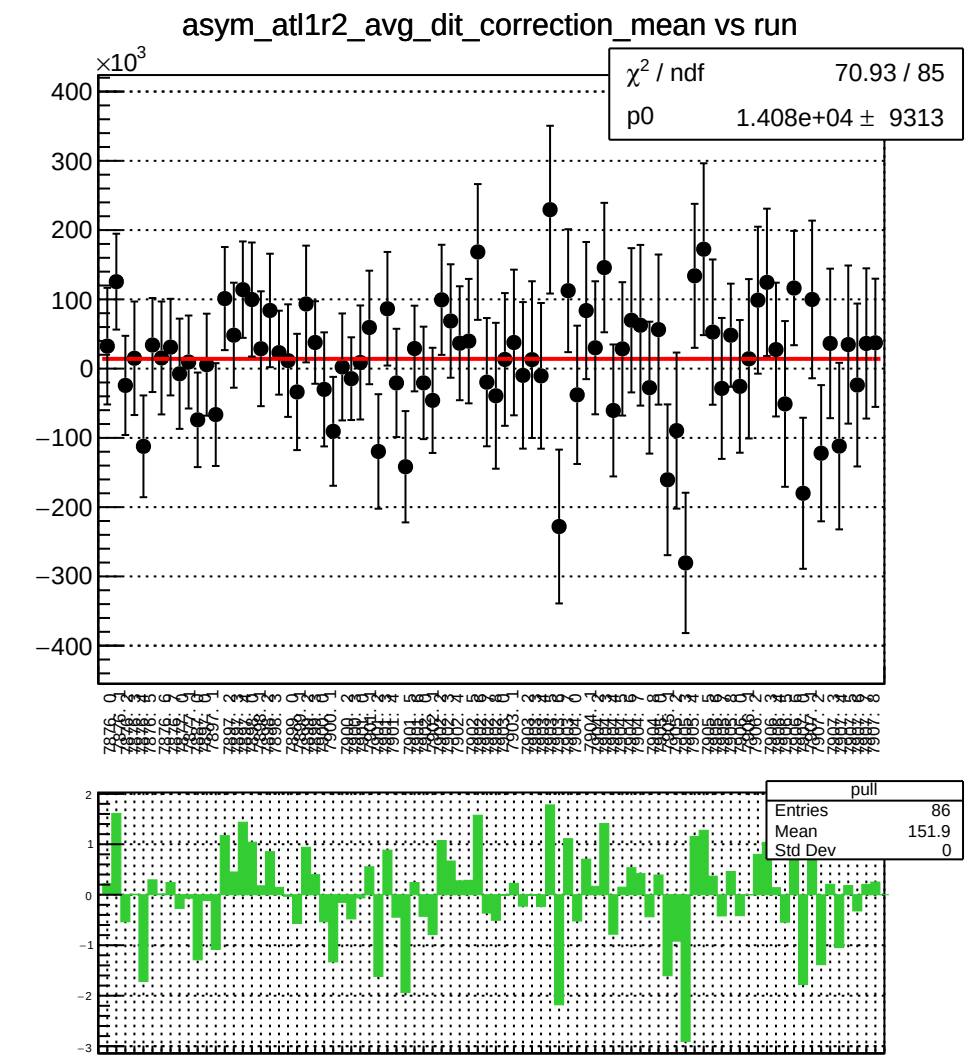

pull1D
Entries 86
Mean 0.001606
Std Dev 0.9083

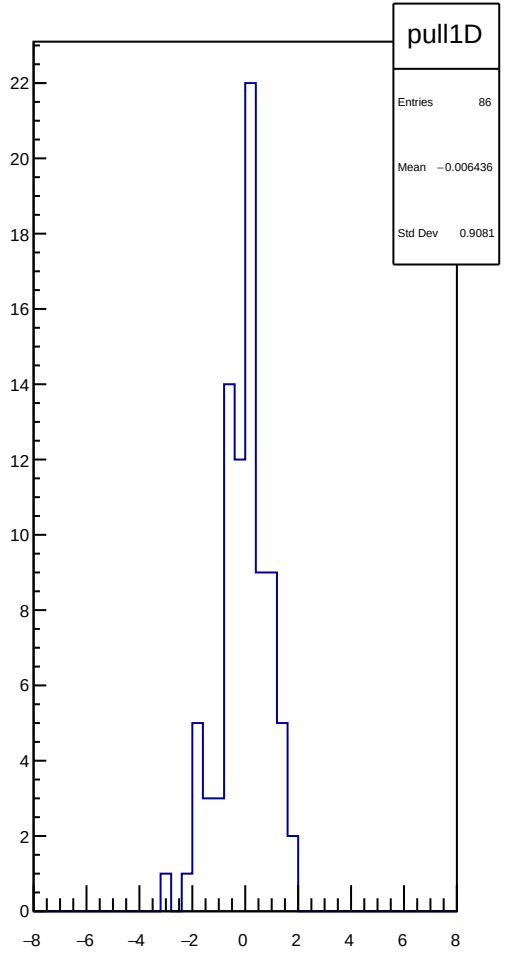

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.26e+04 / 85
p0 8258 ± 6.438
12000
11000
10000
9000
8000
7000
6000

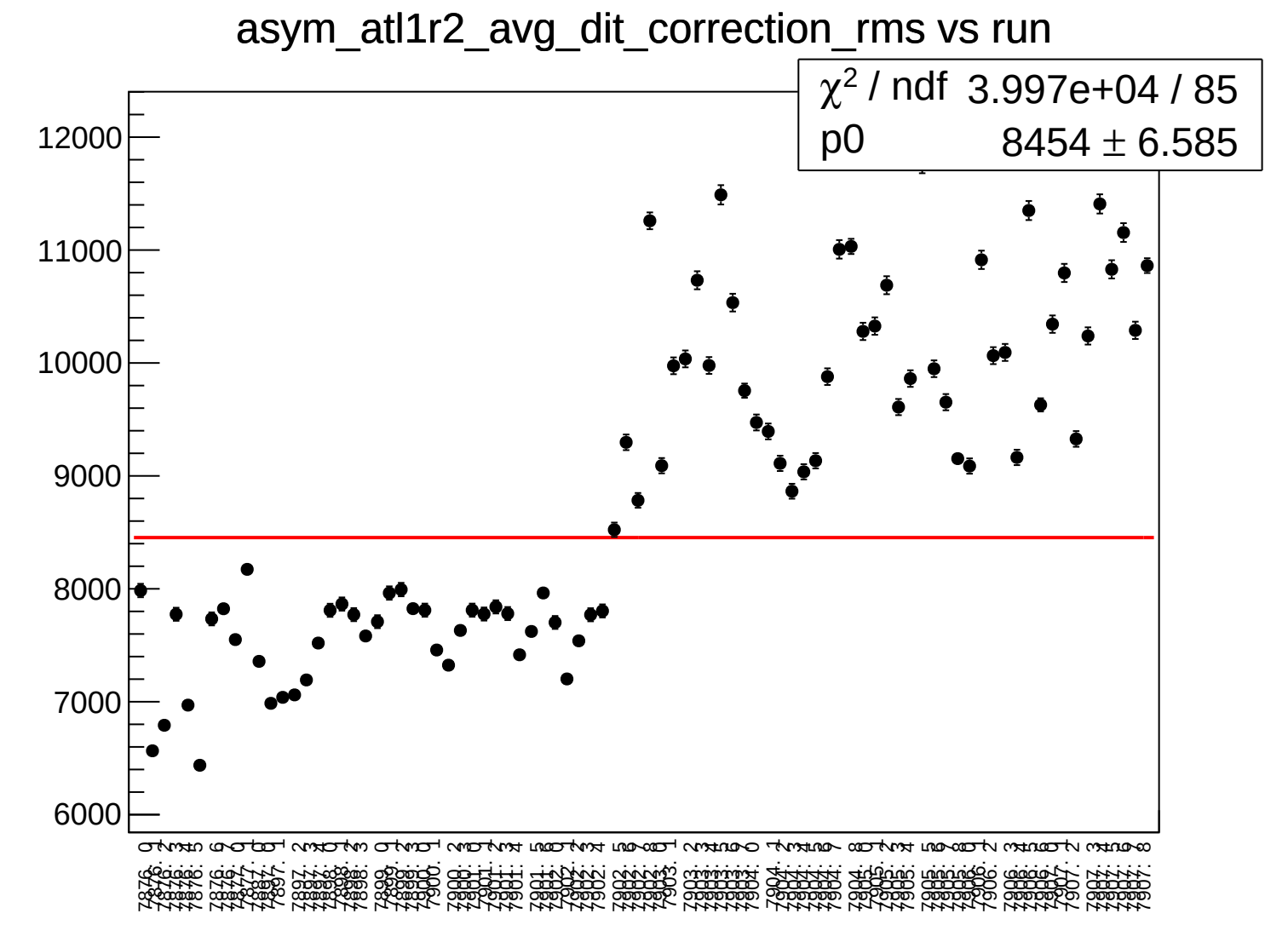

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 76.47 / 85
p0 1660 ± 2106
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 623.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

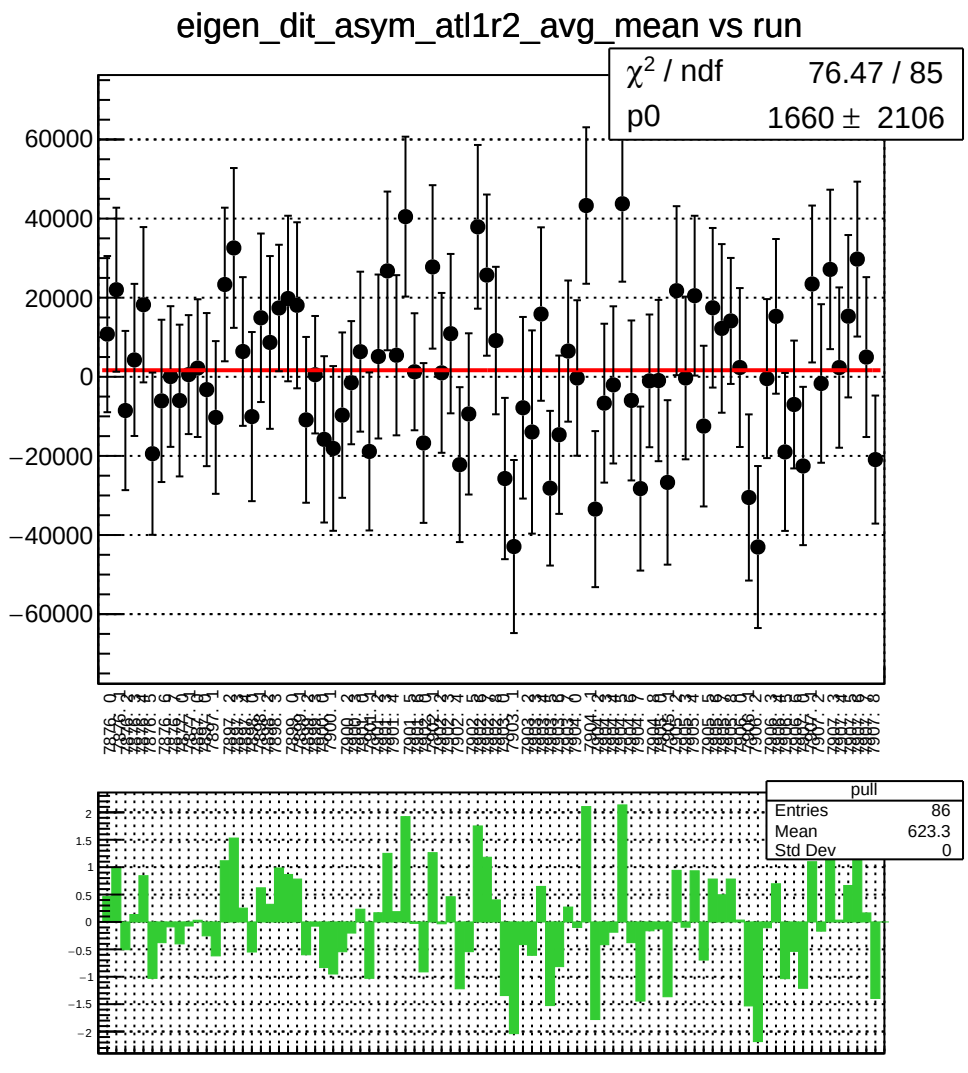

pull1D
Entries 86
Mean −0.00308
Std Dev 0.943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

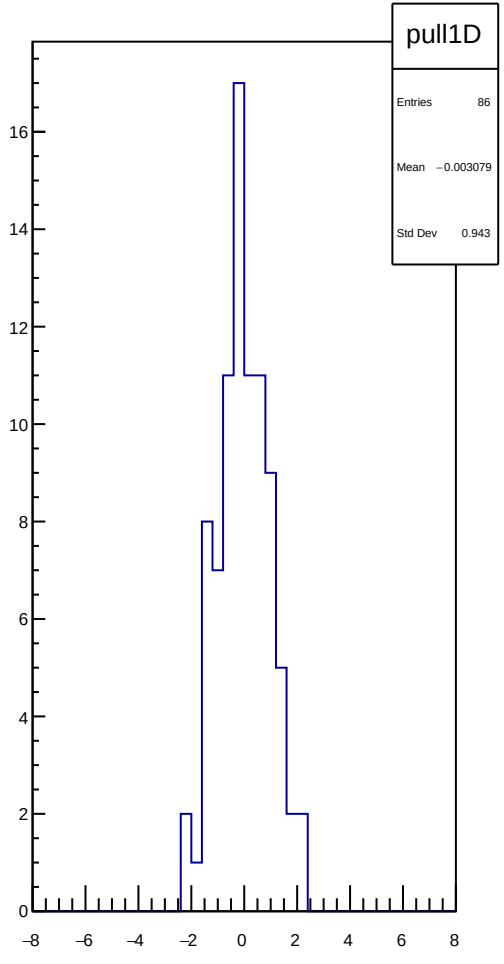

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 2475 / 85
p0 1933 ± 1.489
2500
2400
2300
2200
2100
2000
1900
1800

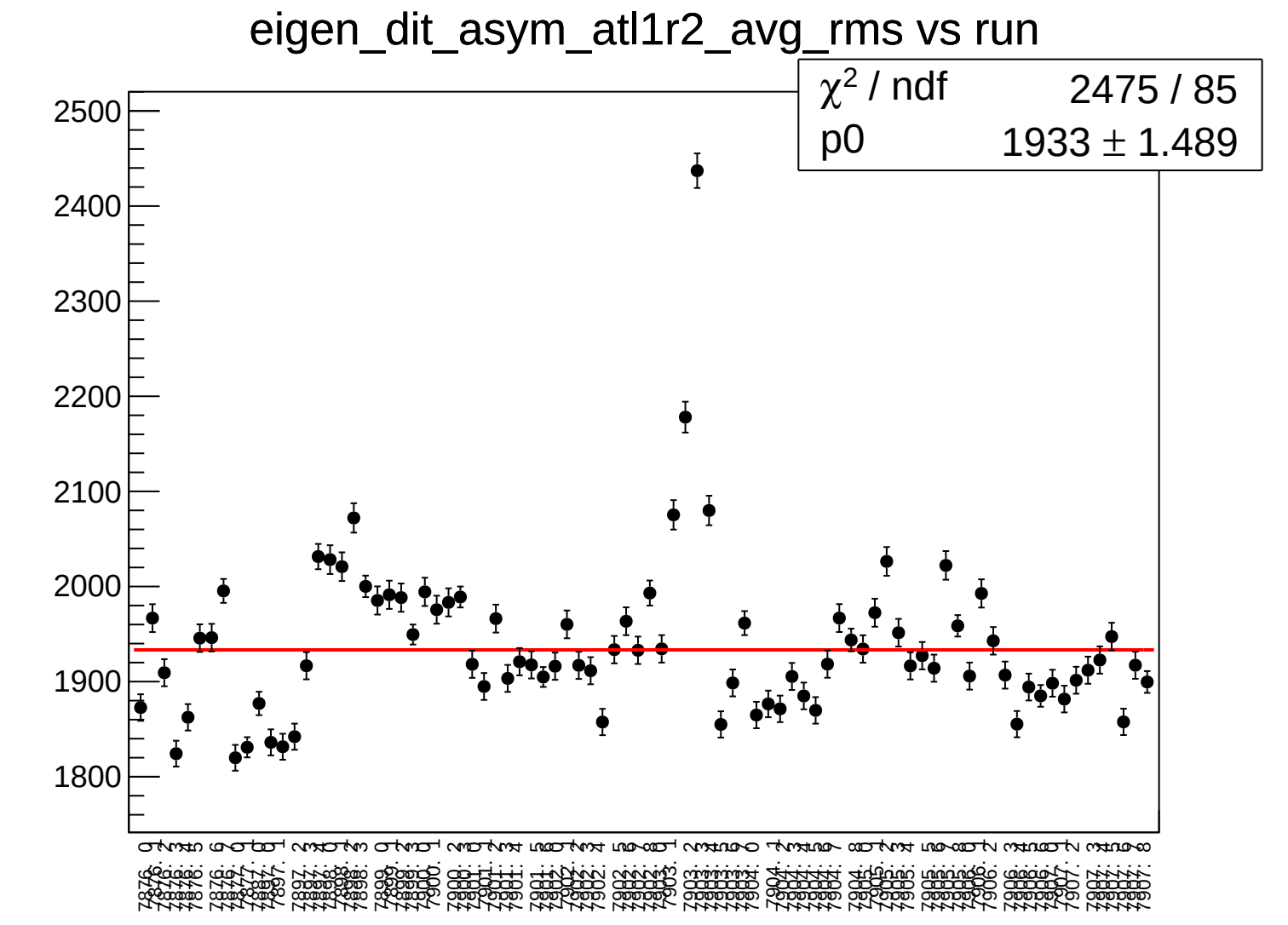

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 70.93 / 85
p0 1.408e+04 ± 9313
pull
Entries 86
Mean 151.9
Std Dev 0

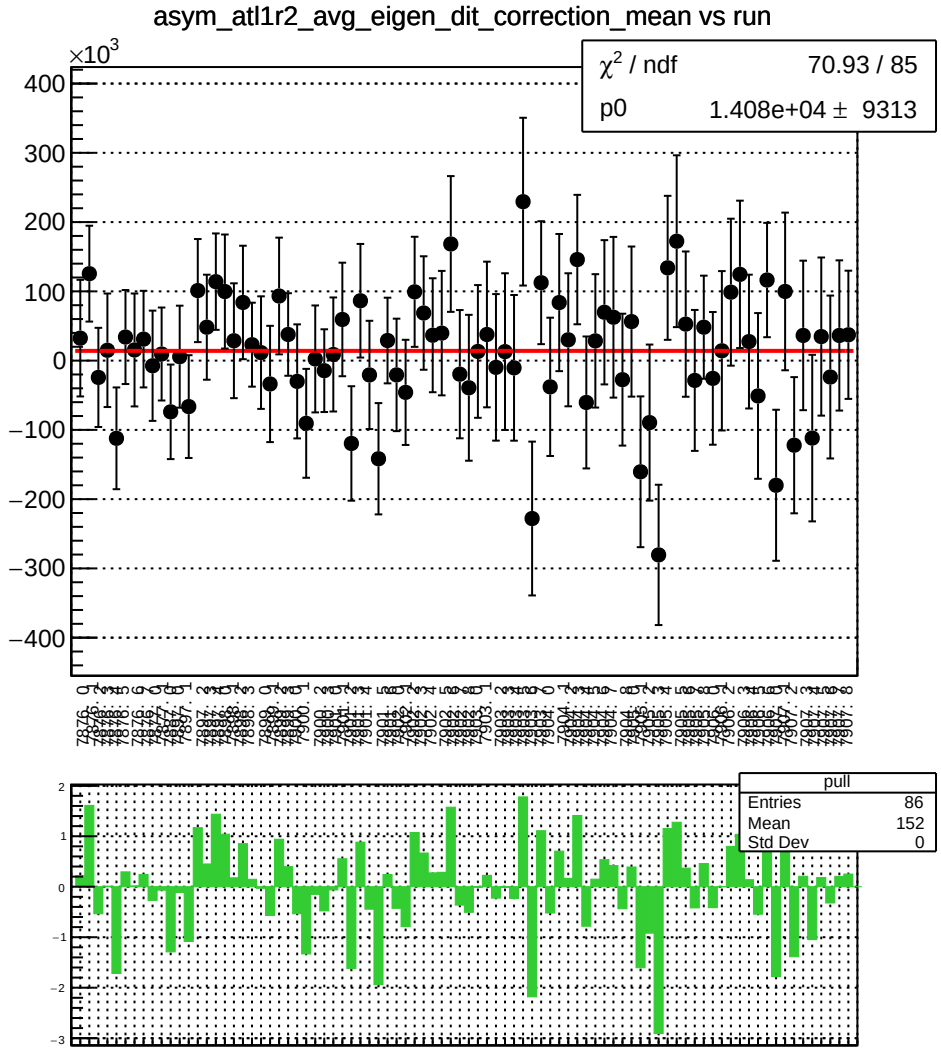

pull1D
Entries 86
Mean −0.006436
Std Dev 0.9081

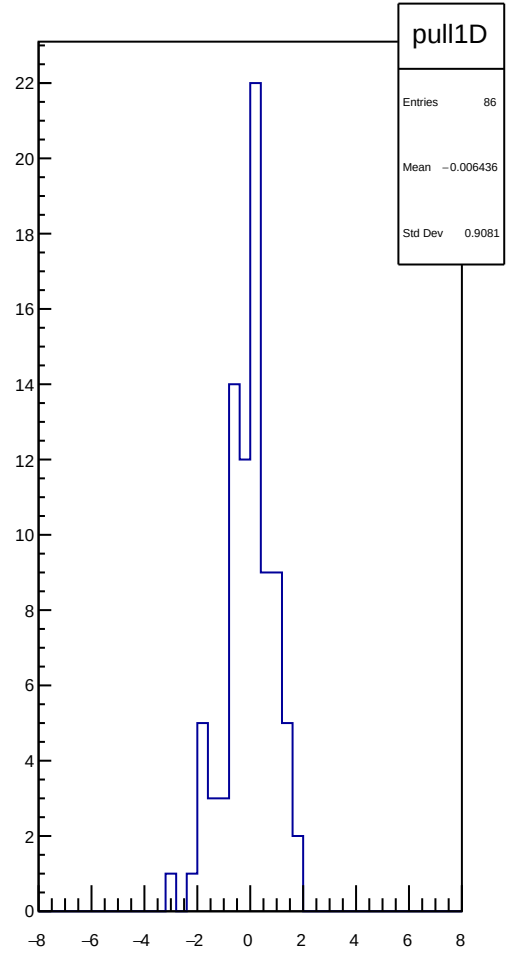

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 3.997e+04 / 85
p0 8454 ± 6.585
12000
11000
10000
9000
8000
7000
6000

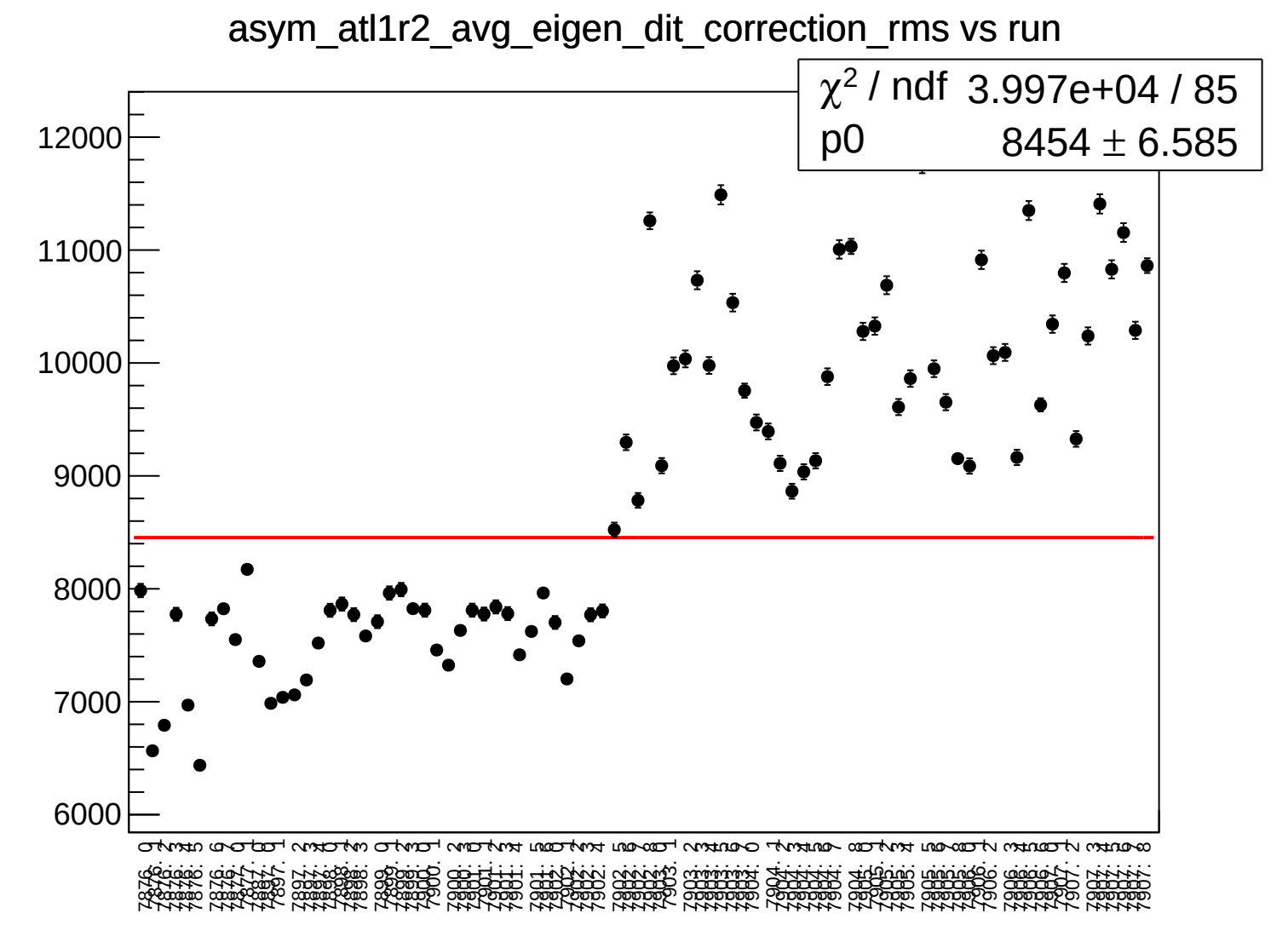

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 76.47 / 85
p0 1660 ± 2106
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 623.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

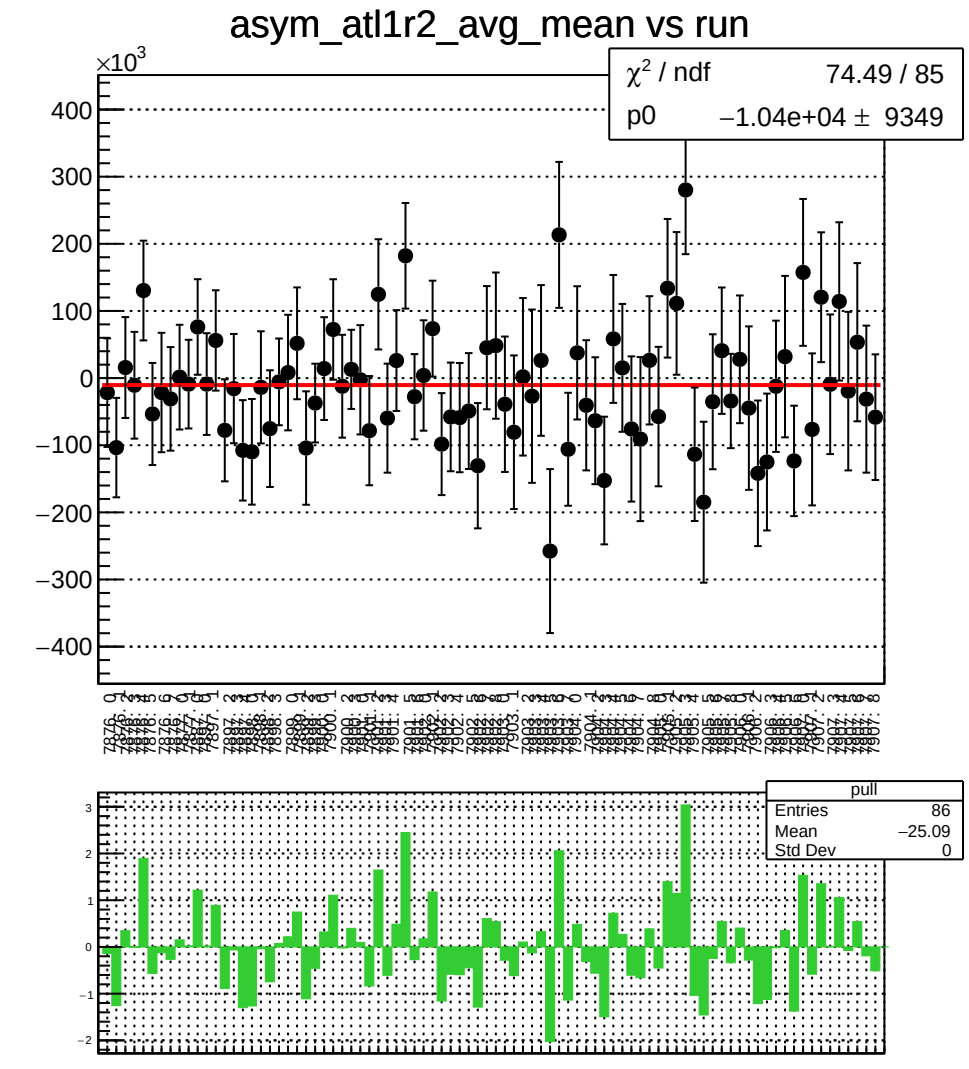

pull1D
Entries 86
Mean −0.003079
Std Dev 0.943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

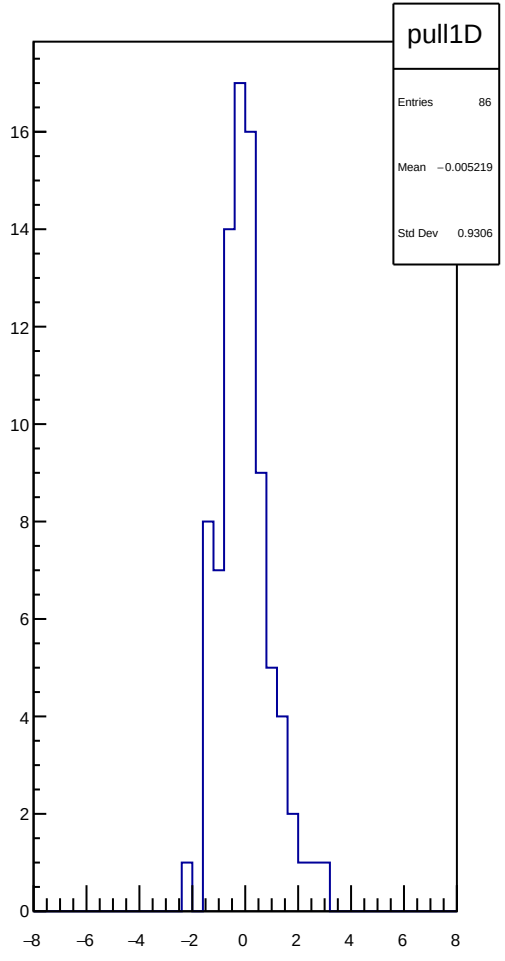

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 2475 / 85
p0 1933 ± 1.489
2500
2400
2300
2200
2100
2000
1900
1800

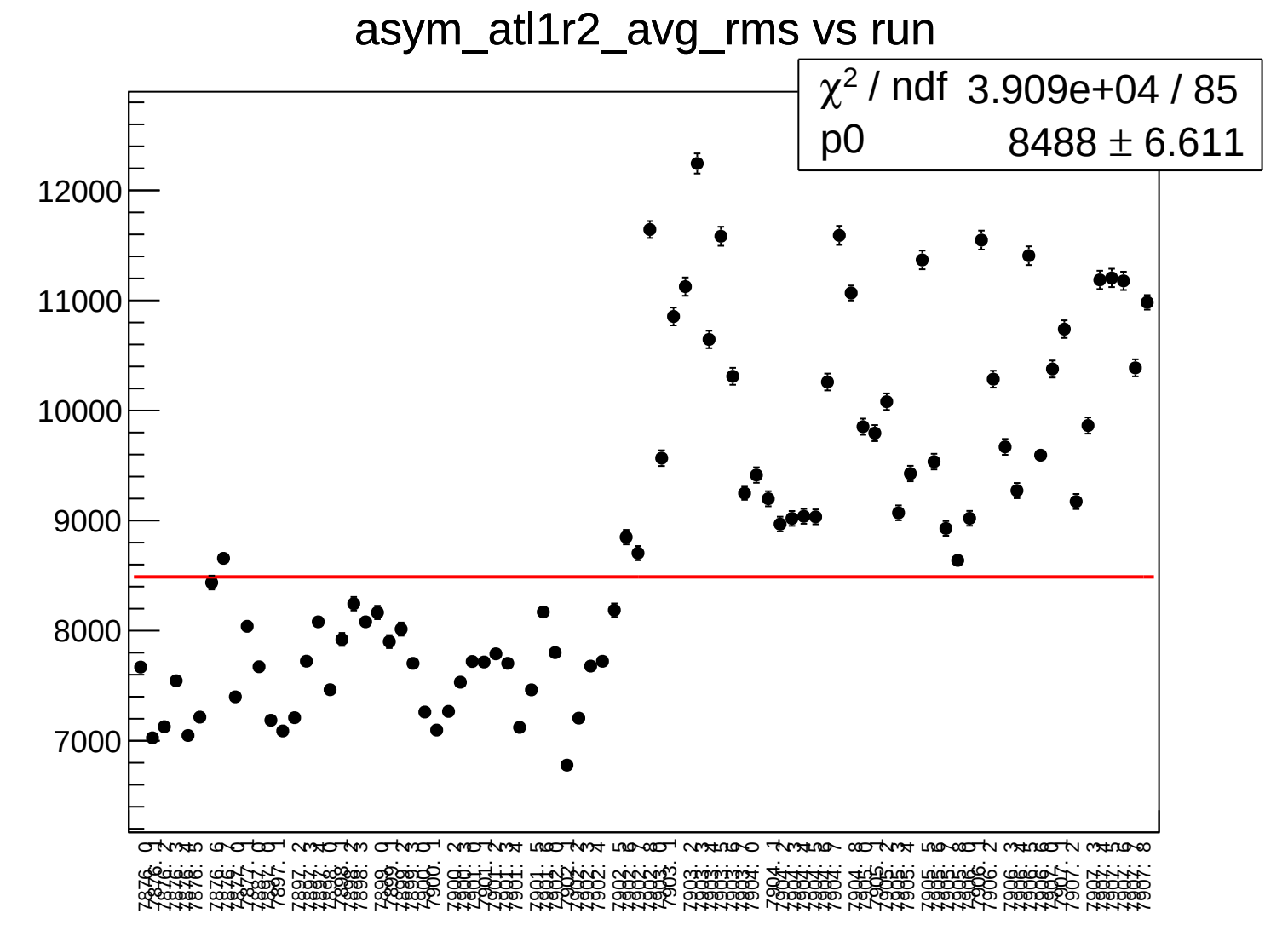

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 70.93 / 85
p0 1.408e+04 ± 9313
pull
Entries 86
Mean 152
Std Dev 0

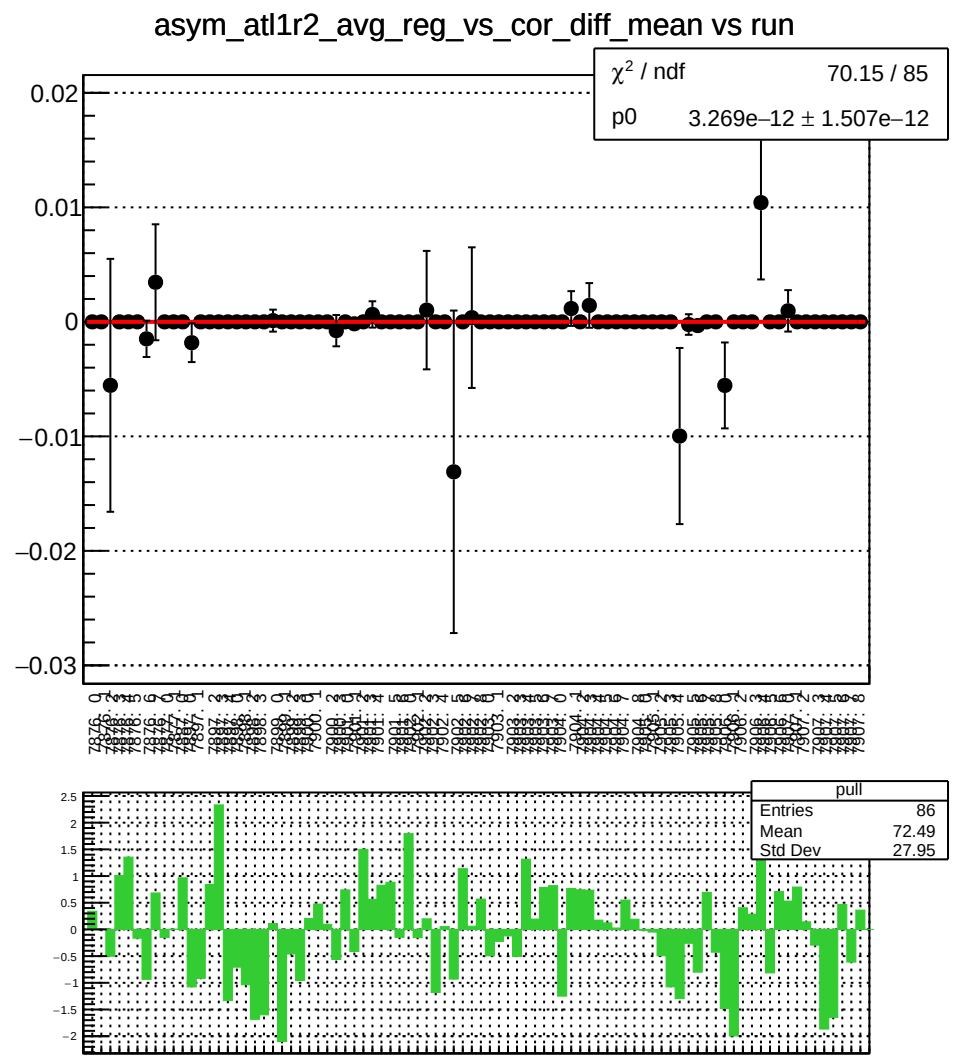

pull1D
Entries 86
Mean −0.006436
Std Dev 0.9081

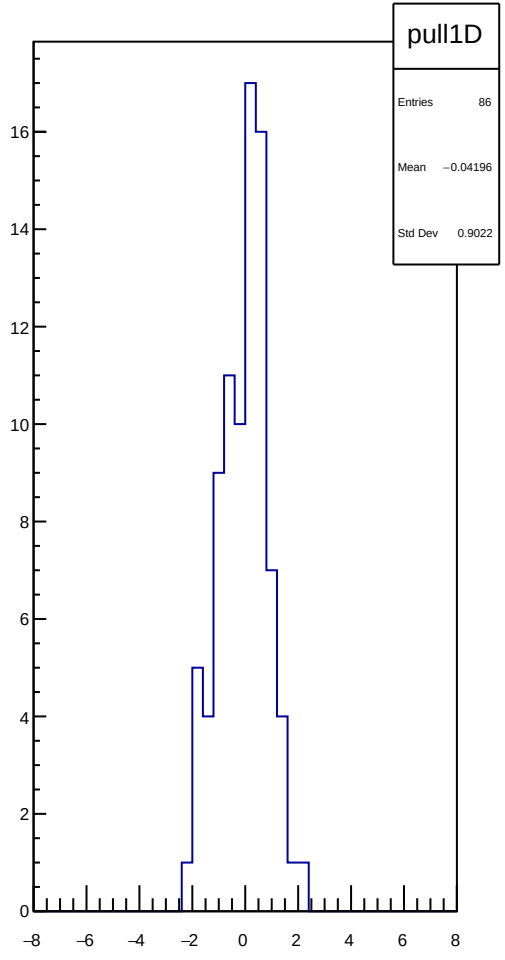

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.997e+04 / 85
p0 8454 ± 6.585
12000
11000
10000
9000
8000
7000
6000

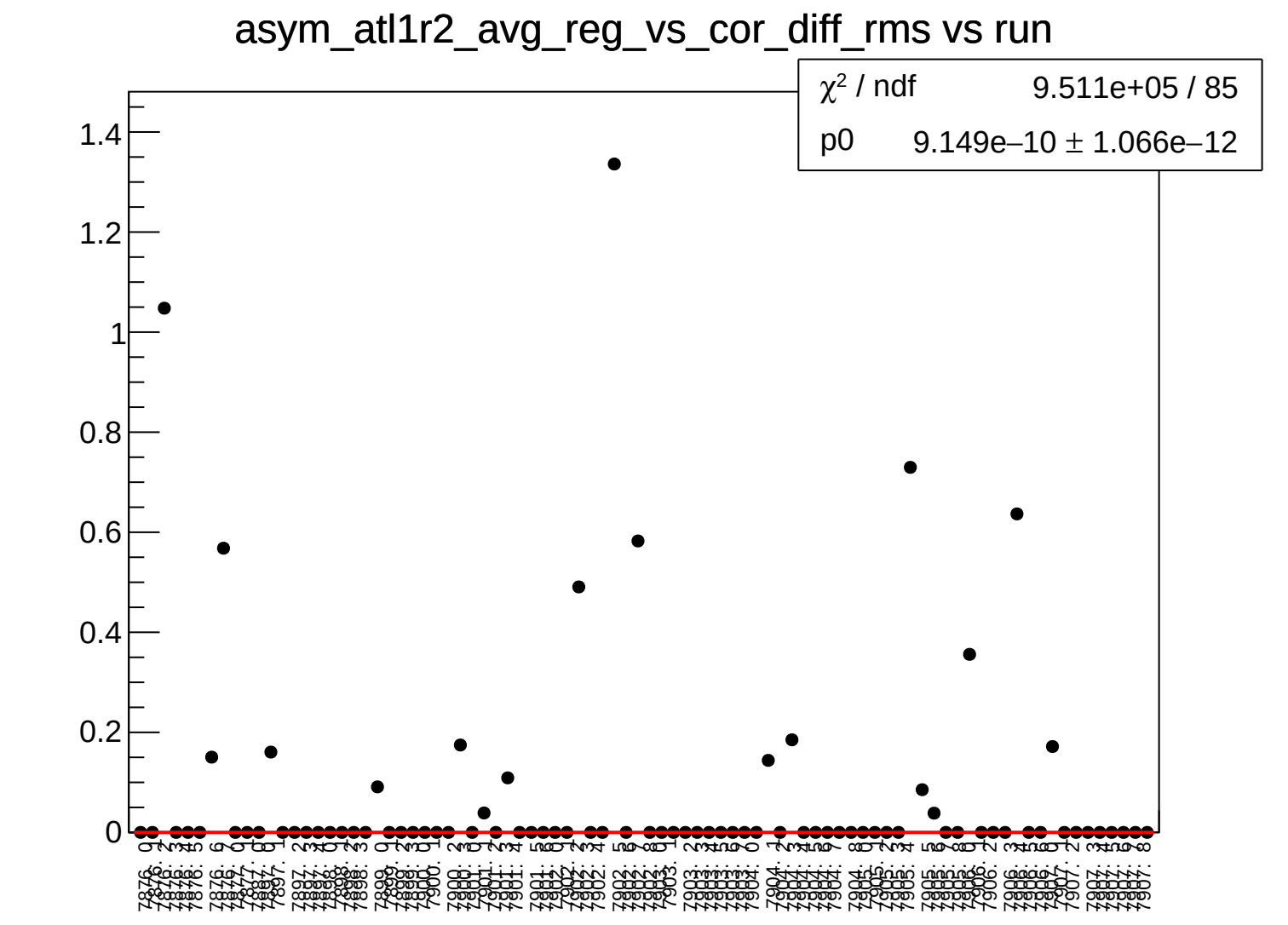

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 74.49 / 85
p0 −1.04e+04 ± 9349
pull
Entries 86
Mean −25.09
Std Dev 0

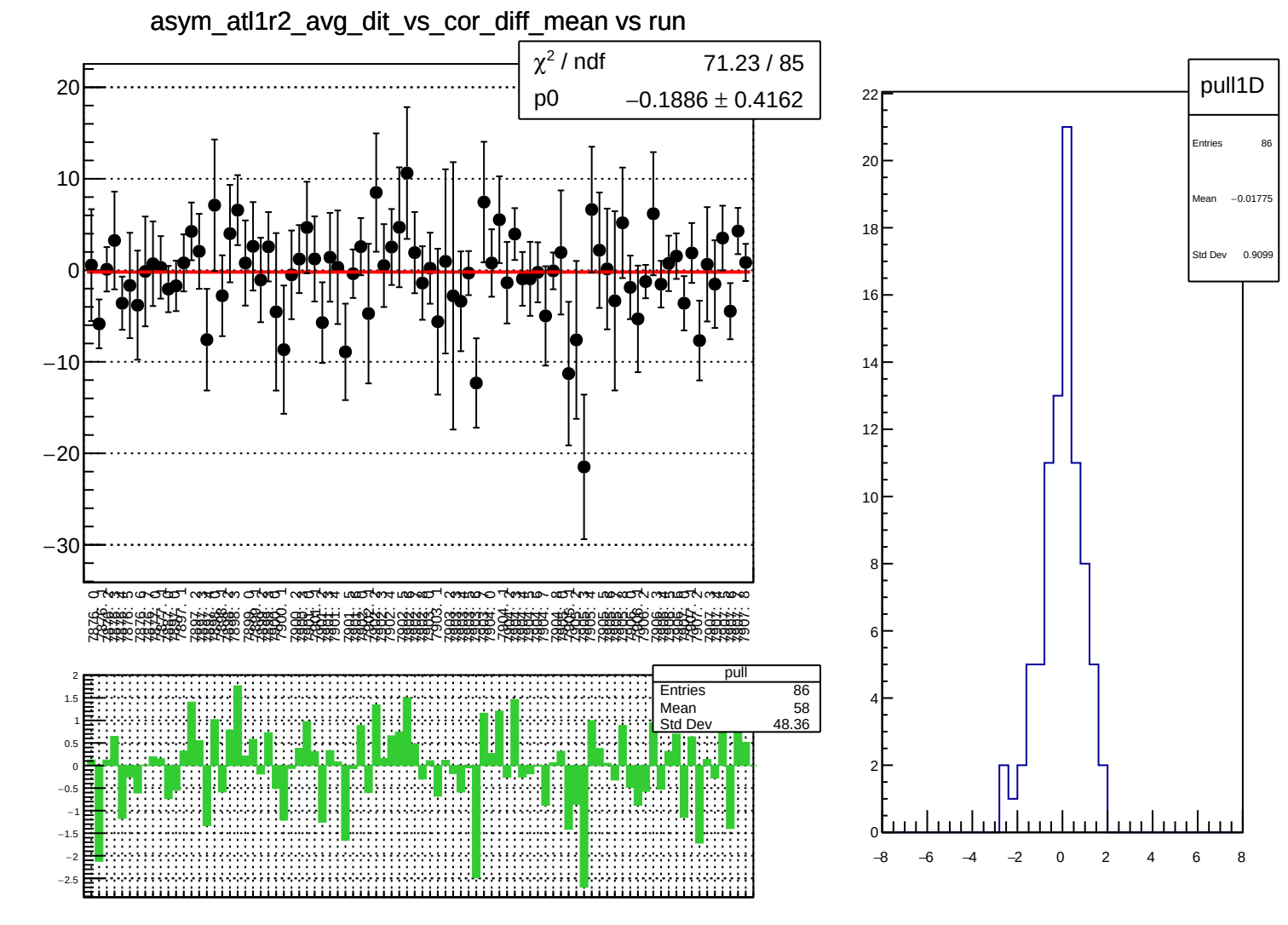

pull1D
Entries 86
Mean −0.005219
Std Dev 0.9306

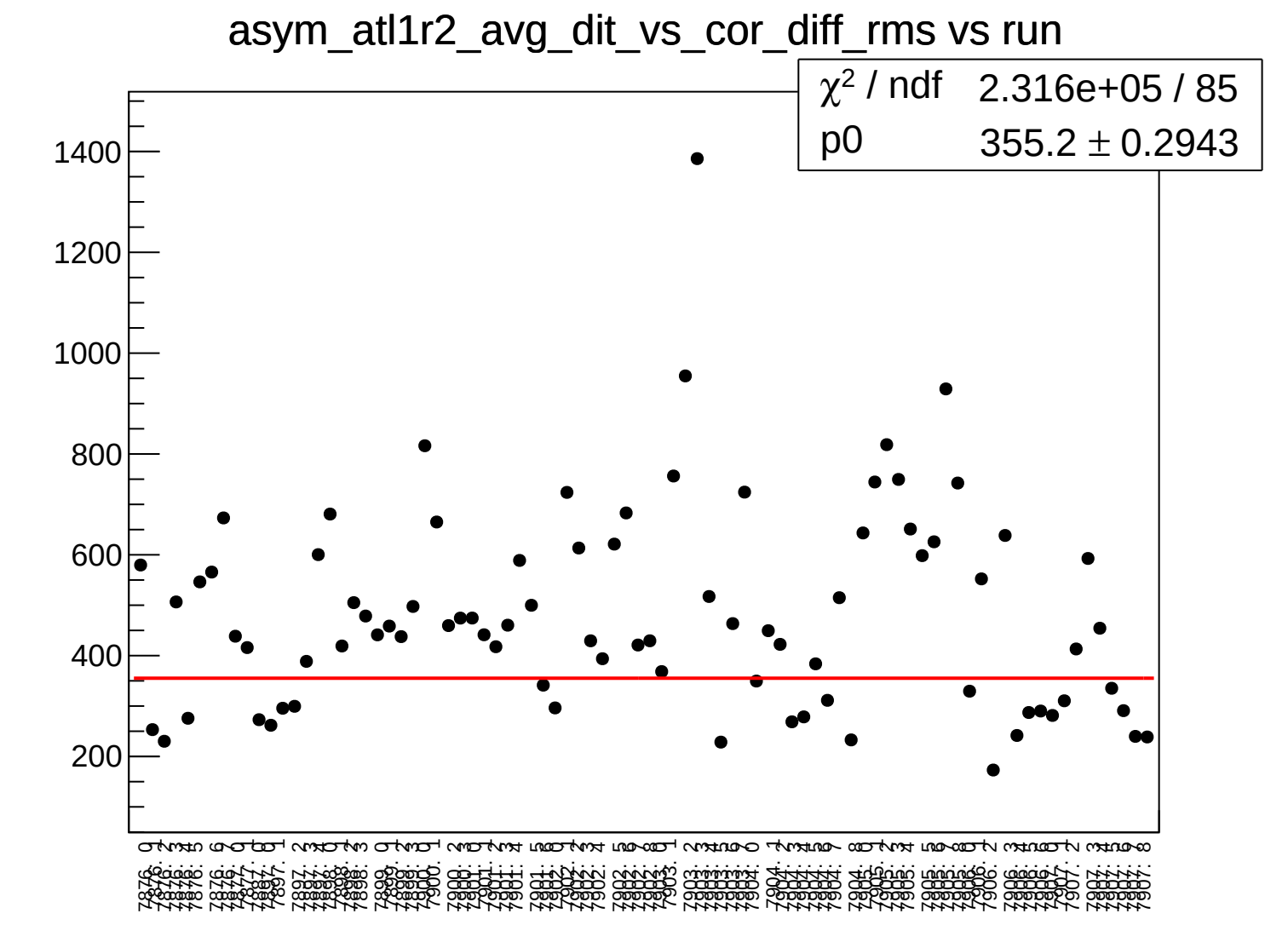

asym_atl1r2_avg_rms vs run
χ^2 / ndf 3.909e+04 / 85
p0 8488 ± 6.611
12000
11000
10000
9000
8000
7000

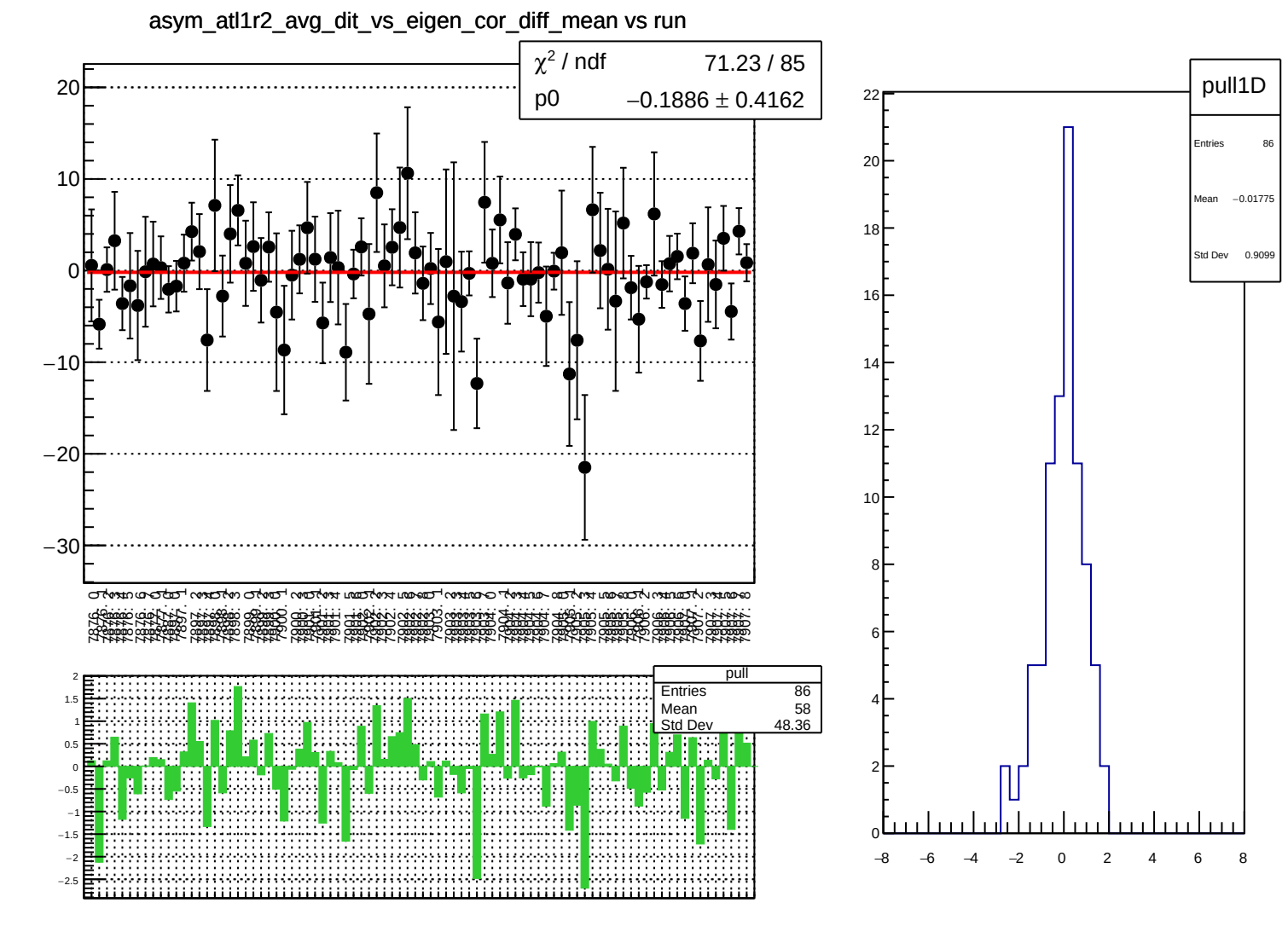

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.15 / 85
p0 3.269e−12 ± 1.507e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 72.49
Std Dev 27.95
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

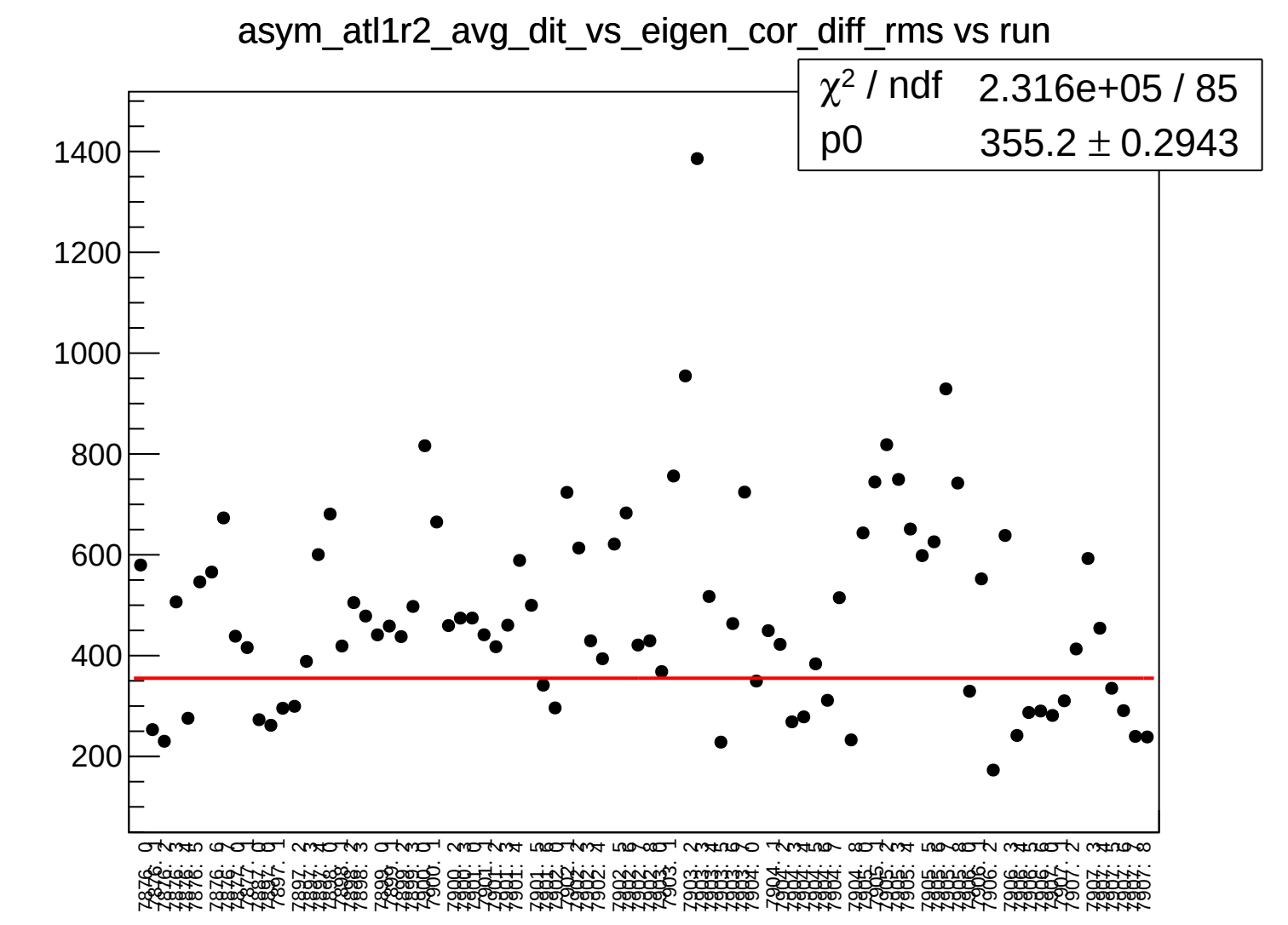

pull1D
Entries 86
Mean −0.04196
Std Dev 0.9022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

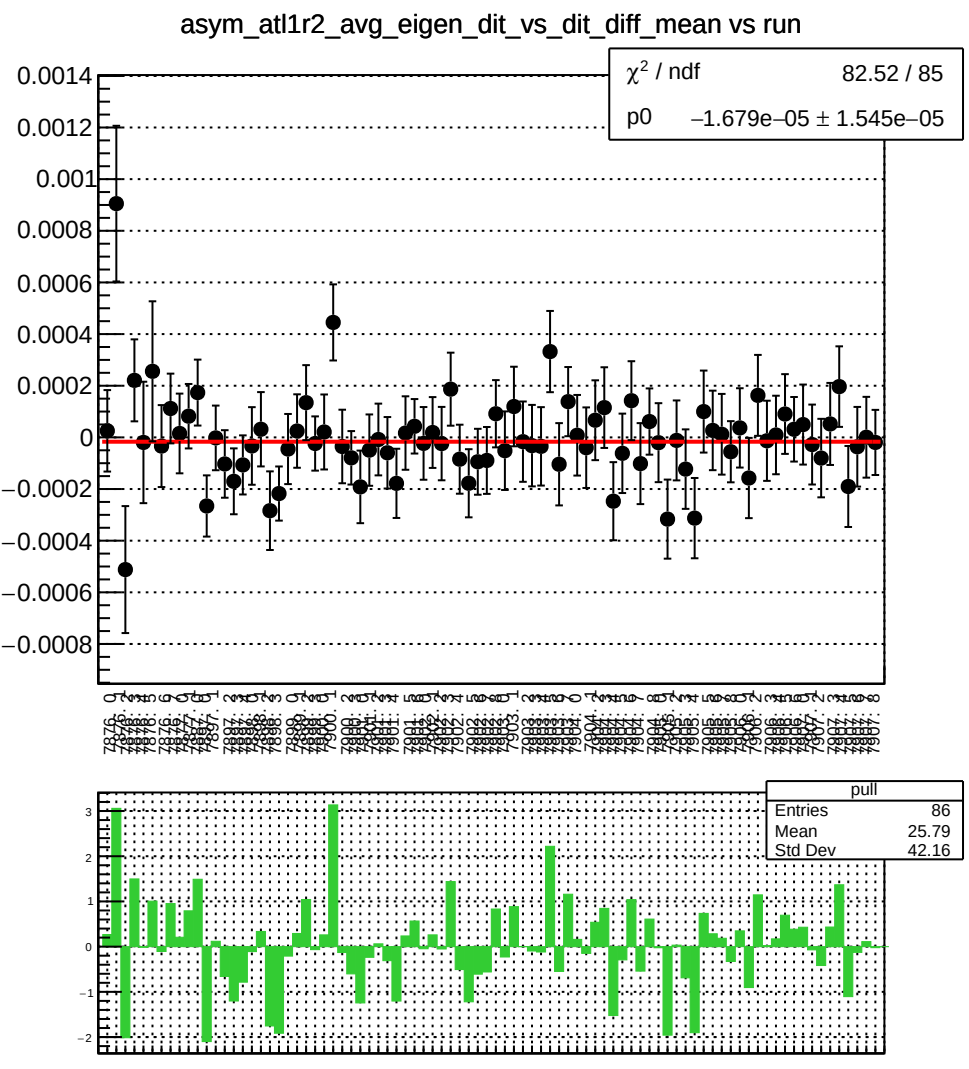

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.511e+05 / 85
p0 9.149e−10 ± 1.066e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

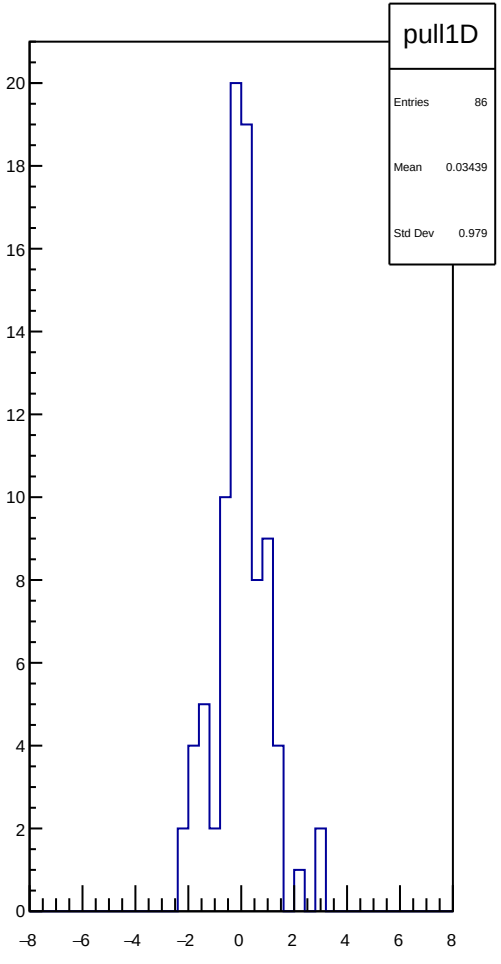

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.23 / 85
p0 −0.1886 ± 0.4162
pull
Entries 86
Mean 58
Std Dev 48.36
pull1D
Entries 86
Mean −0.01775
Std Dev 0.9099

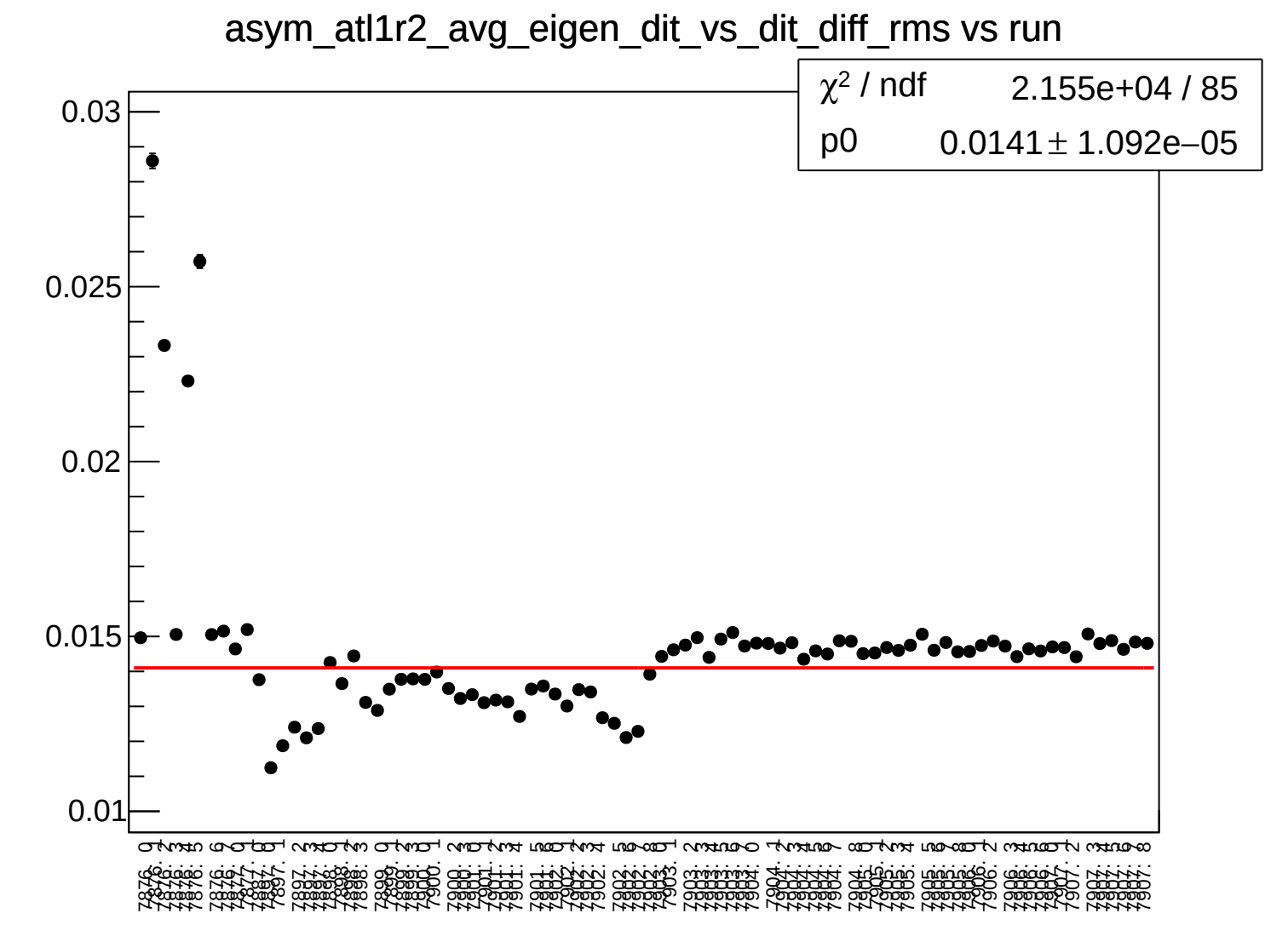

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.316e+05 / 85
p0 355.2 ± 0.2943
1400
1200
1000
800
600
400
200

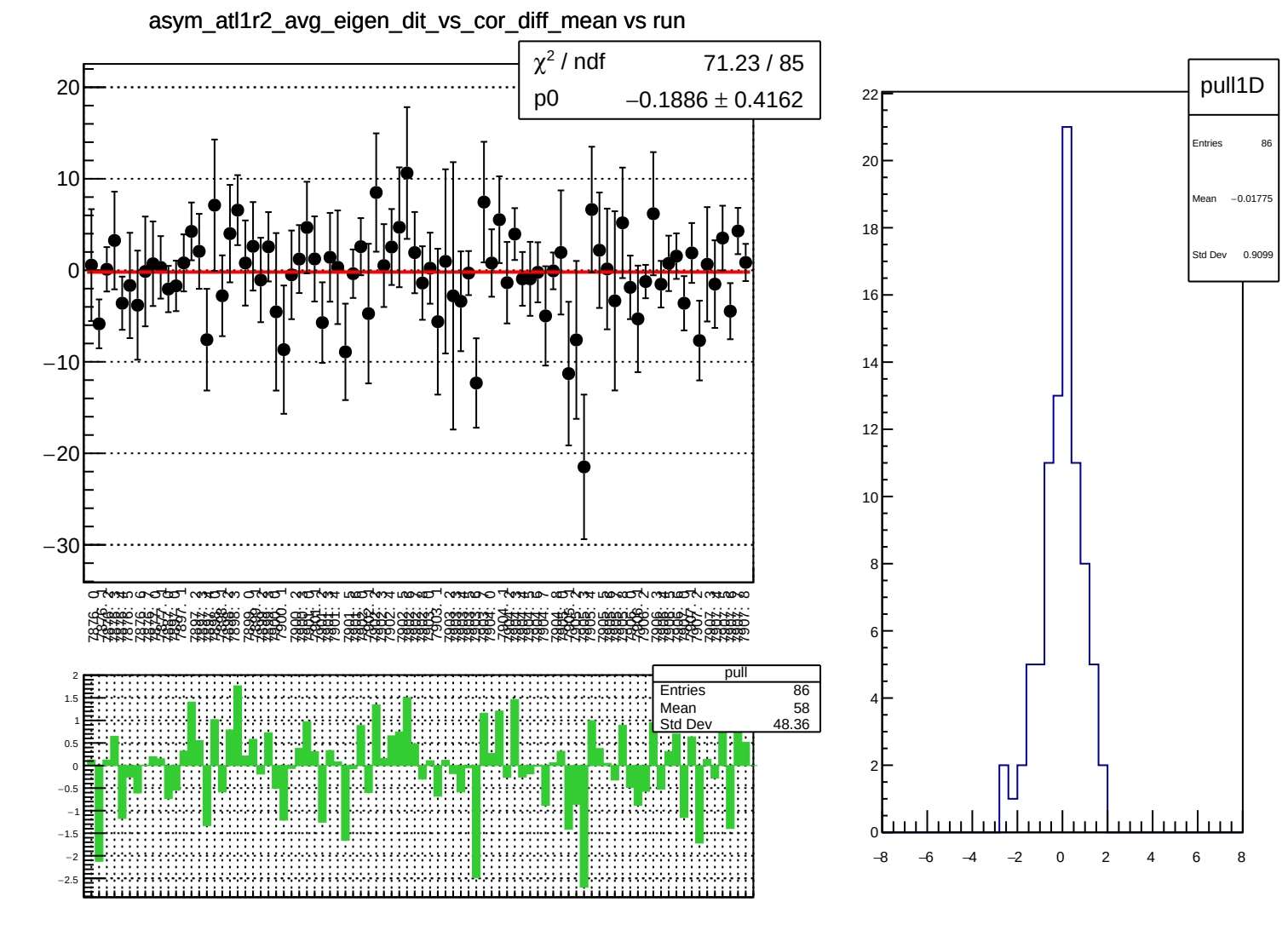

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.23 / 85
p0 −0.1886 ± 0.4162
pull
Entries 86
Mean 58
Std Dev 48.36
pull1D
Entries 86
Mean −0.01775
Std Dev 0.9099

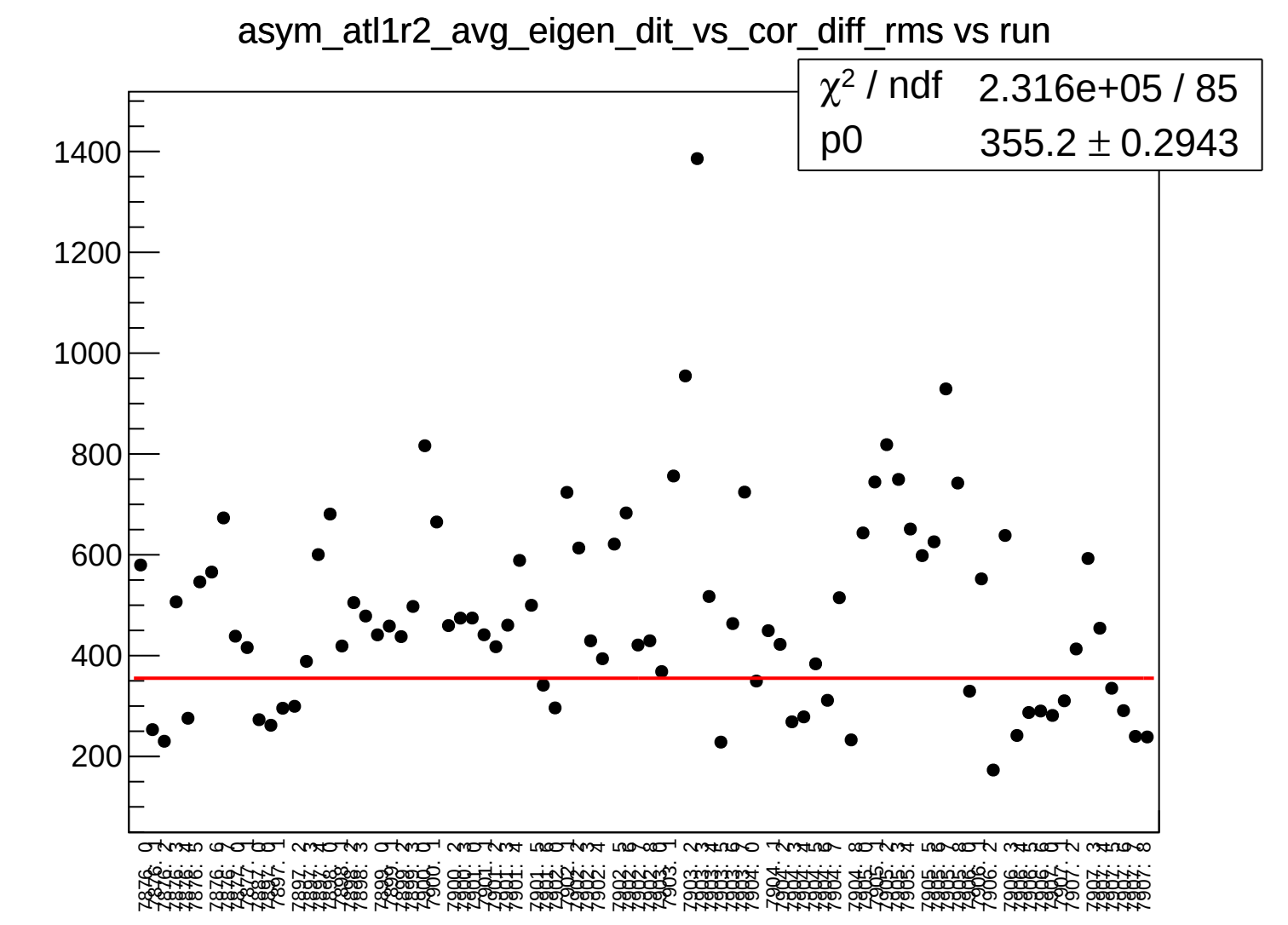

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.316e+05 / 85
p0 355.2 ± 0.2943
1400
1200
1000
800
600
400
200

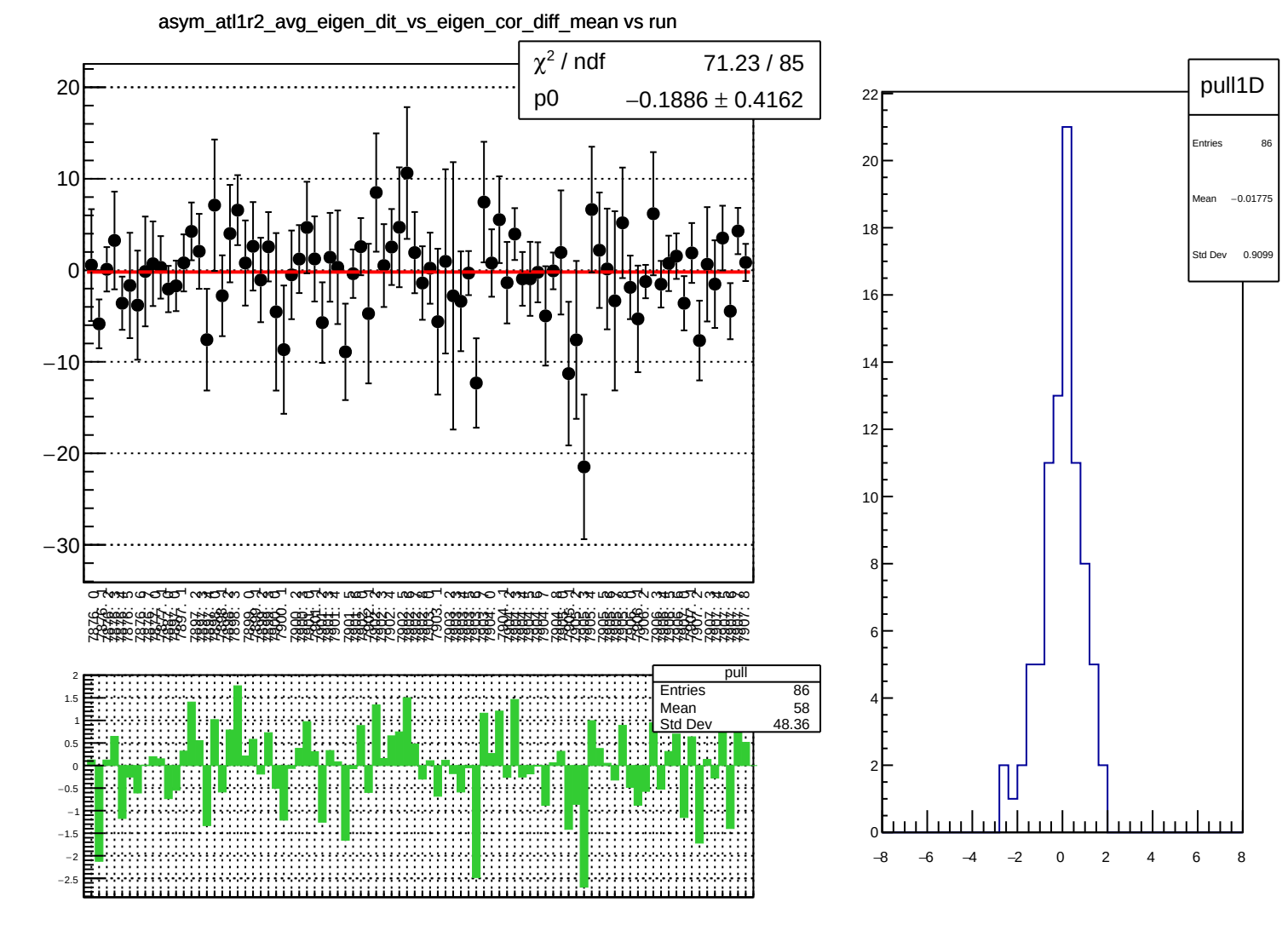

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 82.52 / 85
p0 −1.679e−05 ± 1.545e−05
pull
Entries 86
Mean 25.79
Std Dev 42.16

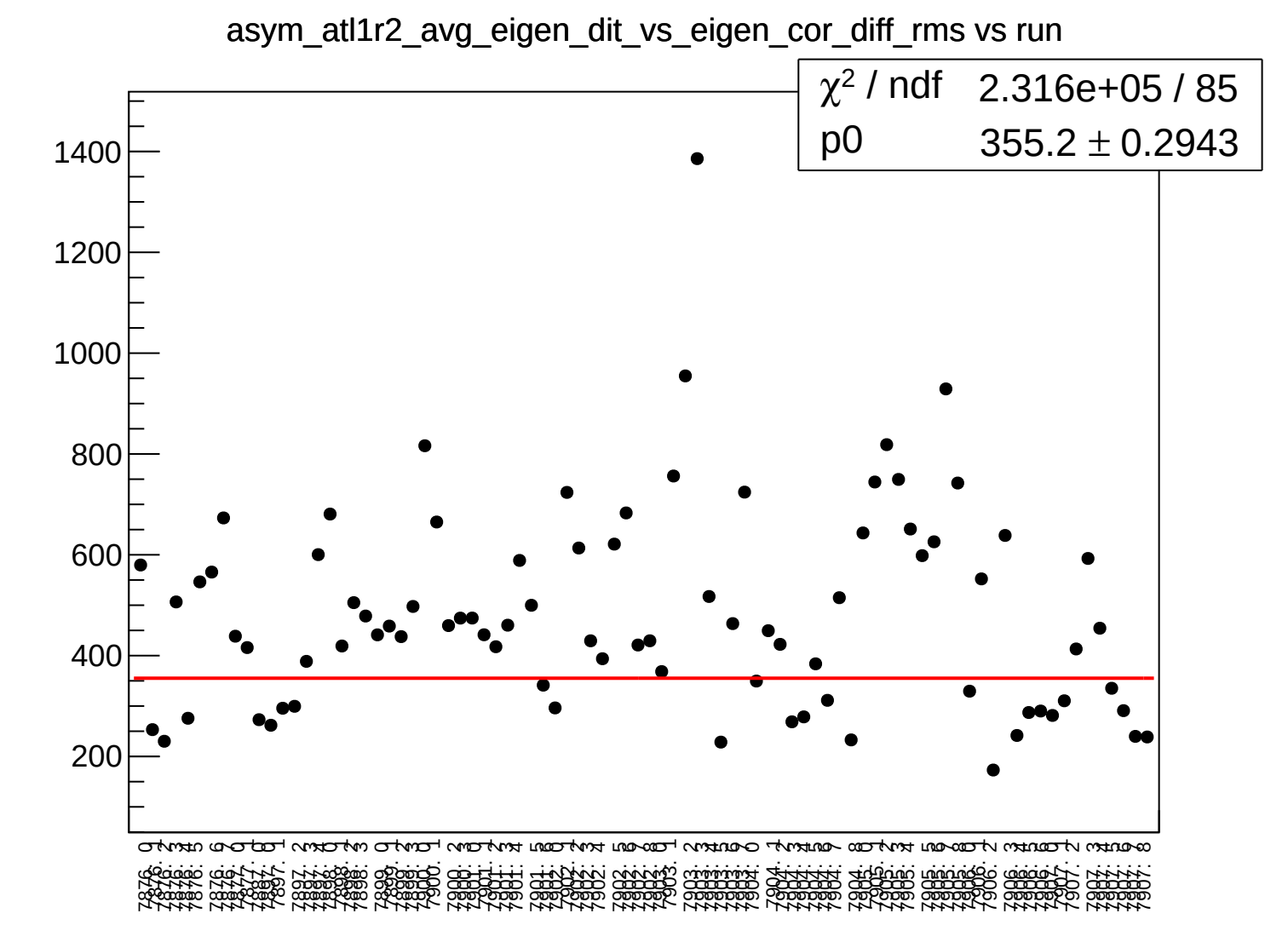

pull1D
Entries 86
Mean 0.03439
Std Dev 0.979

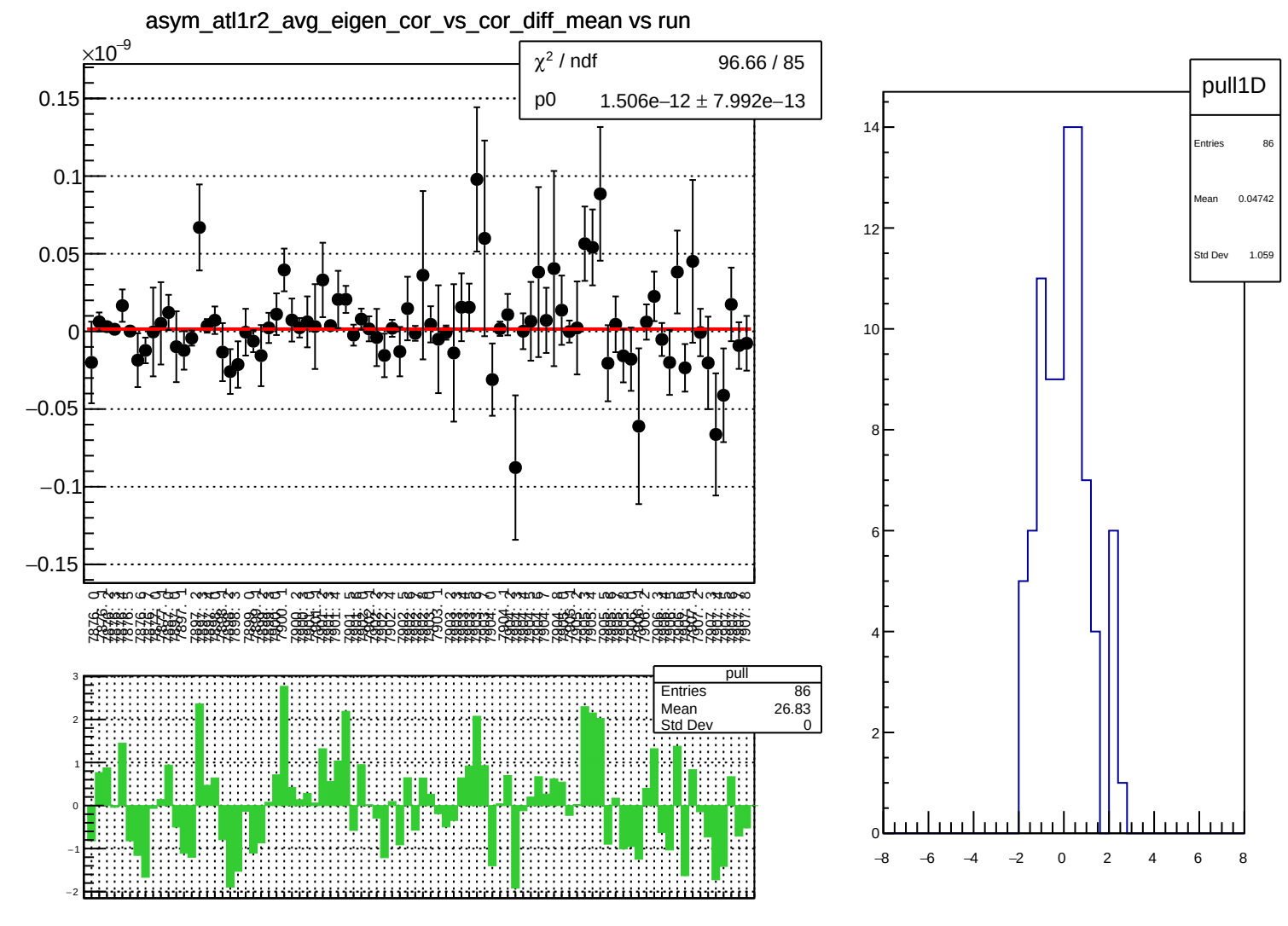

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.155e+04 / 85
p0 0.0141 ± 1.092e−05
0.03
0.025
0.02
0.015
0.01

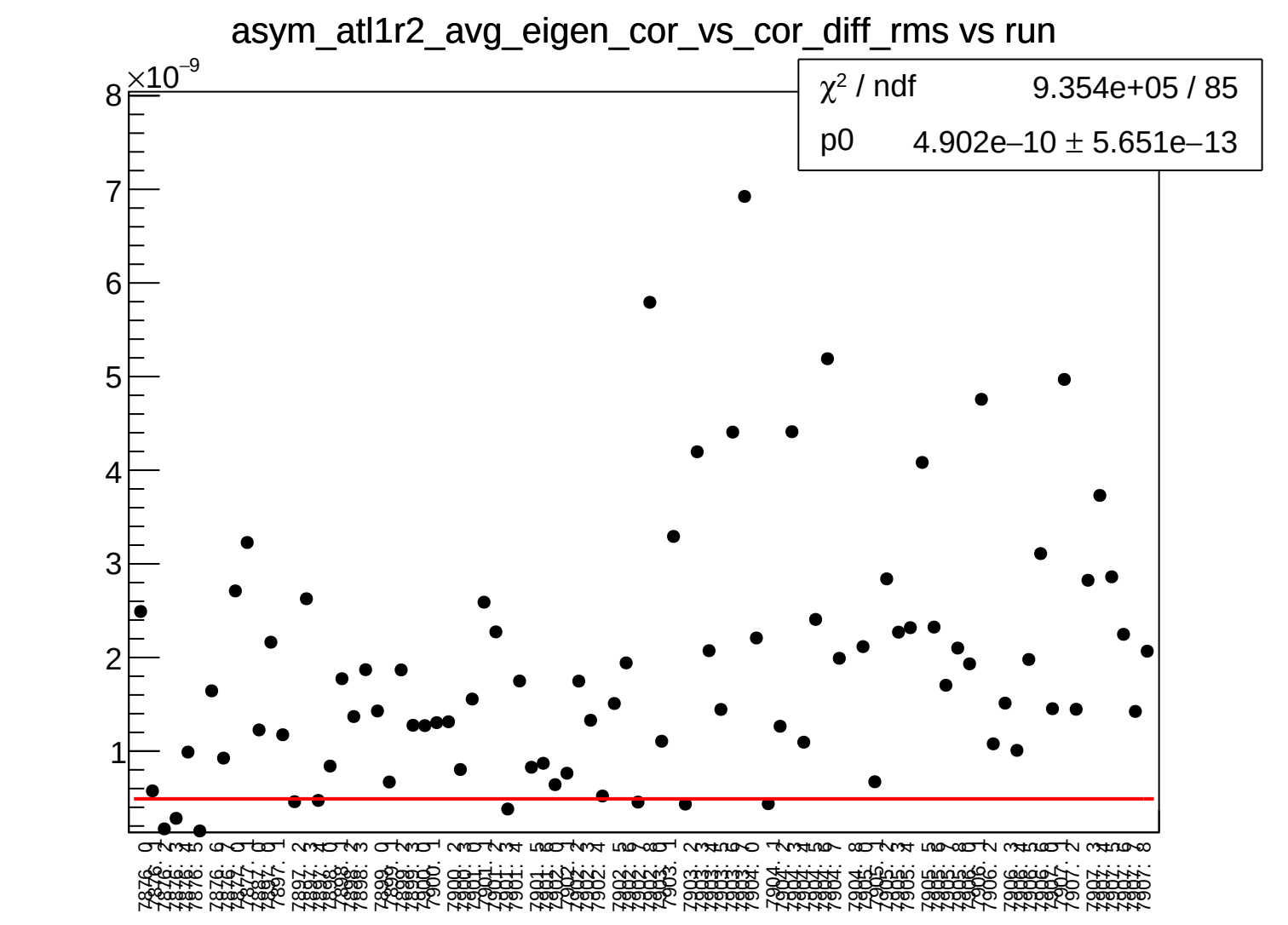

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.23 / 85
p0 −0.1886 ± 0.4162
pull
Entries 86
Mean 58
Std Dev 48.36
pull1D
Entries 86
Mean −0.01775
Std Dev 0.9099

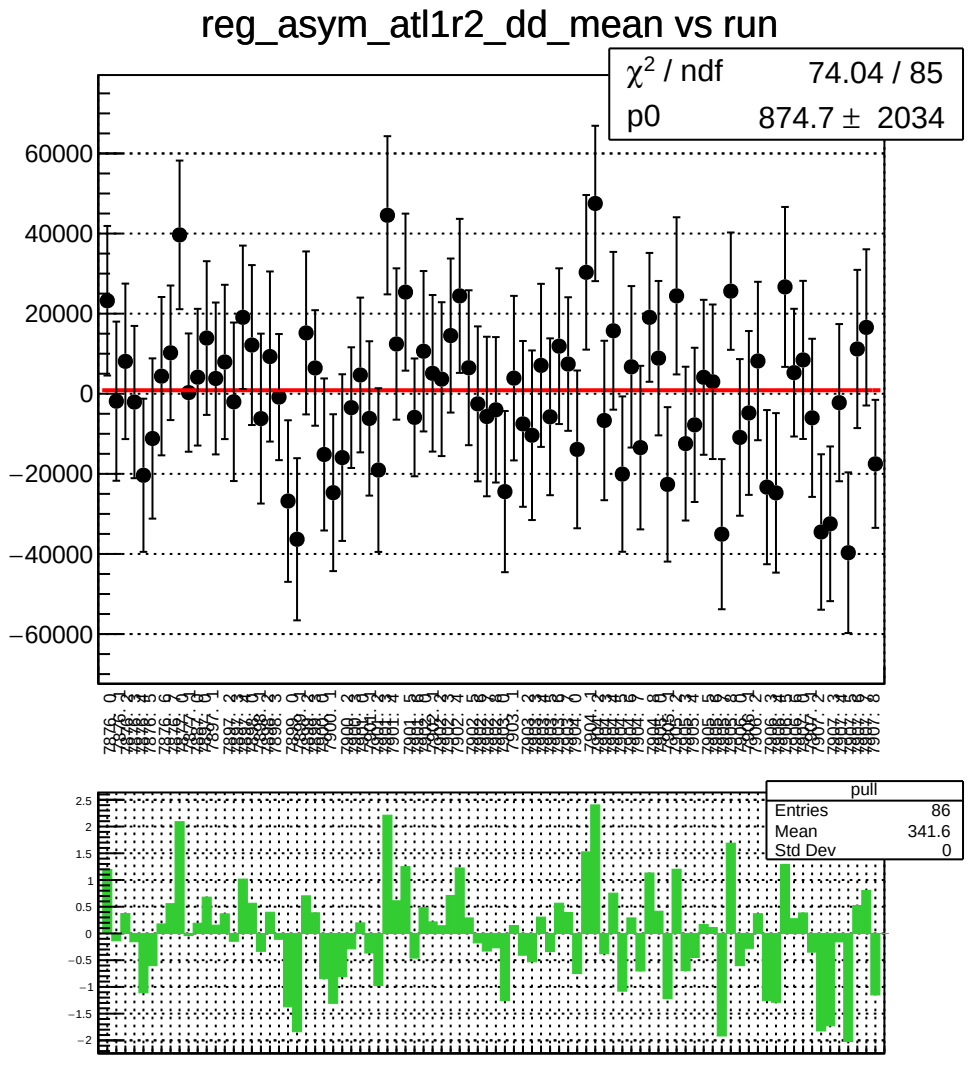

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.316e+05 / 85
p0 355.2 ± 0.2943
1400
1200
1000
800
600
400
200

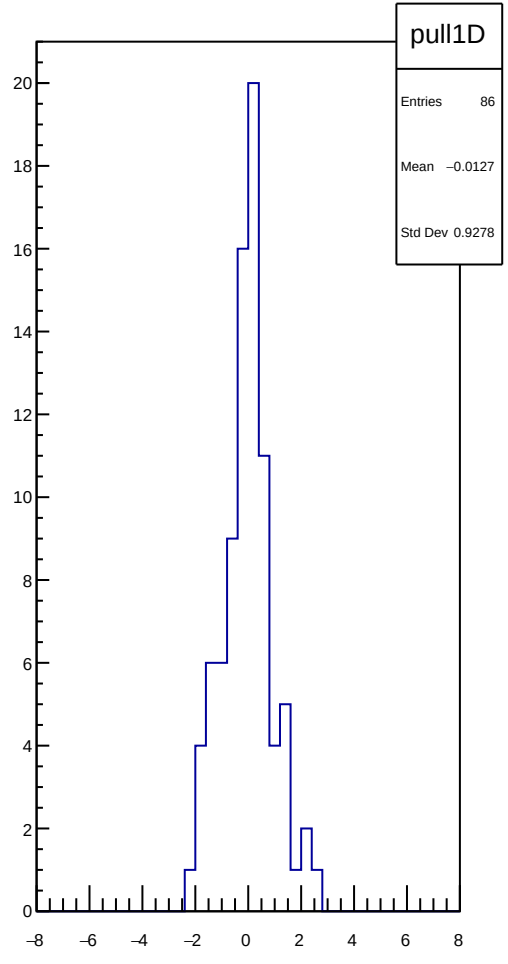

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.23 / 85
p0 −0.1886 ± 0.4162
pull
Entries 86
Mean 58
Std Dev 48.36
pull1D
Entries 86
Mean −0.01775
Std Dev 0.9099

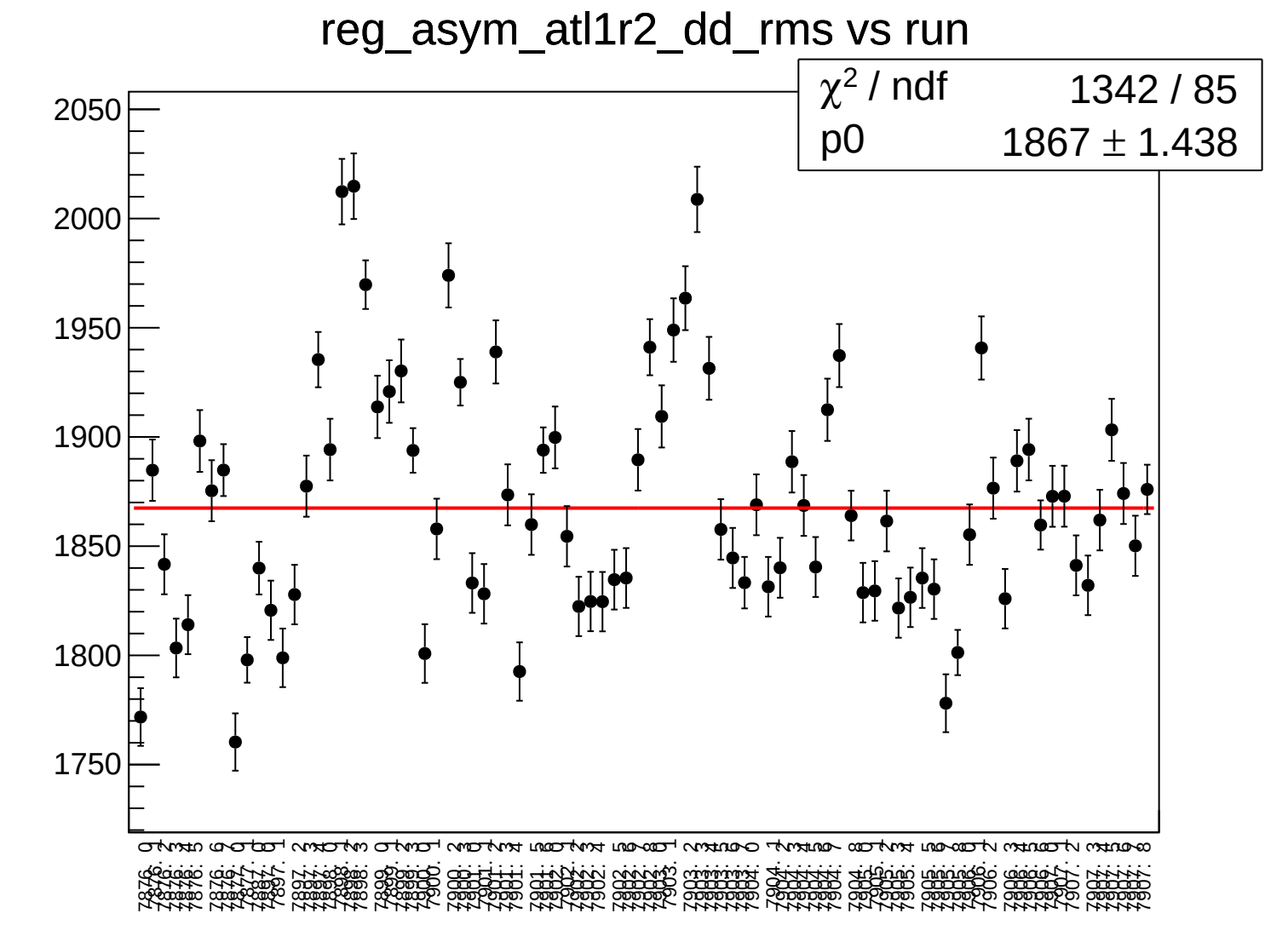

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.316e+05 / 85
p0 355.2 ± 0.2943
1400
1200
1000
800
600
400
200

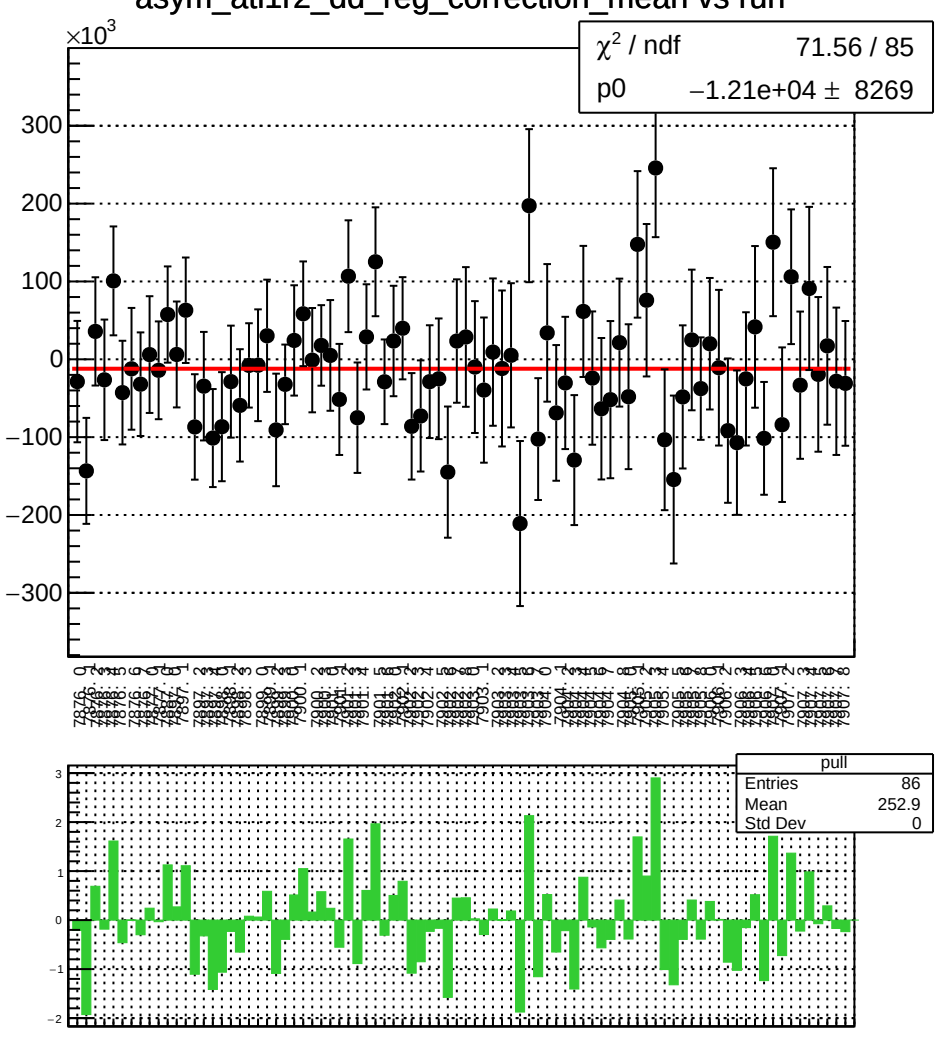

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 96.66 / 85
p0 1.506e−12 ± 7.992e−13
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 26.83
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.04742
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

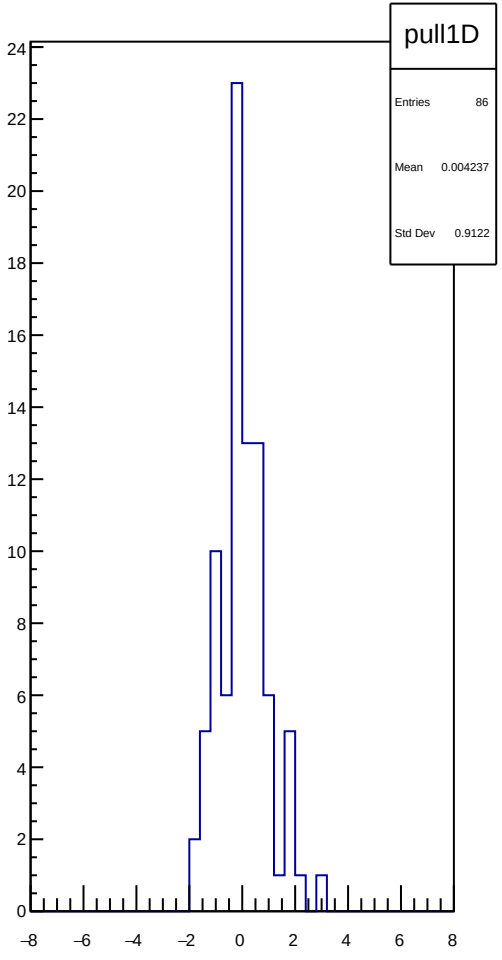

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.354e+05 / 85
p0 4.902e−10 ± 5.651e−13
8
7
6
5
4
3
2
1

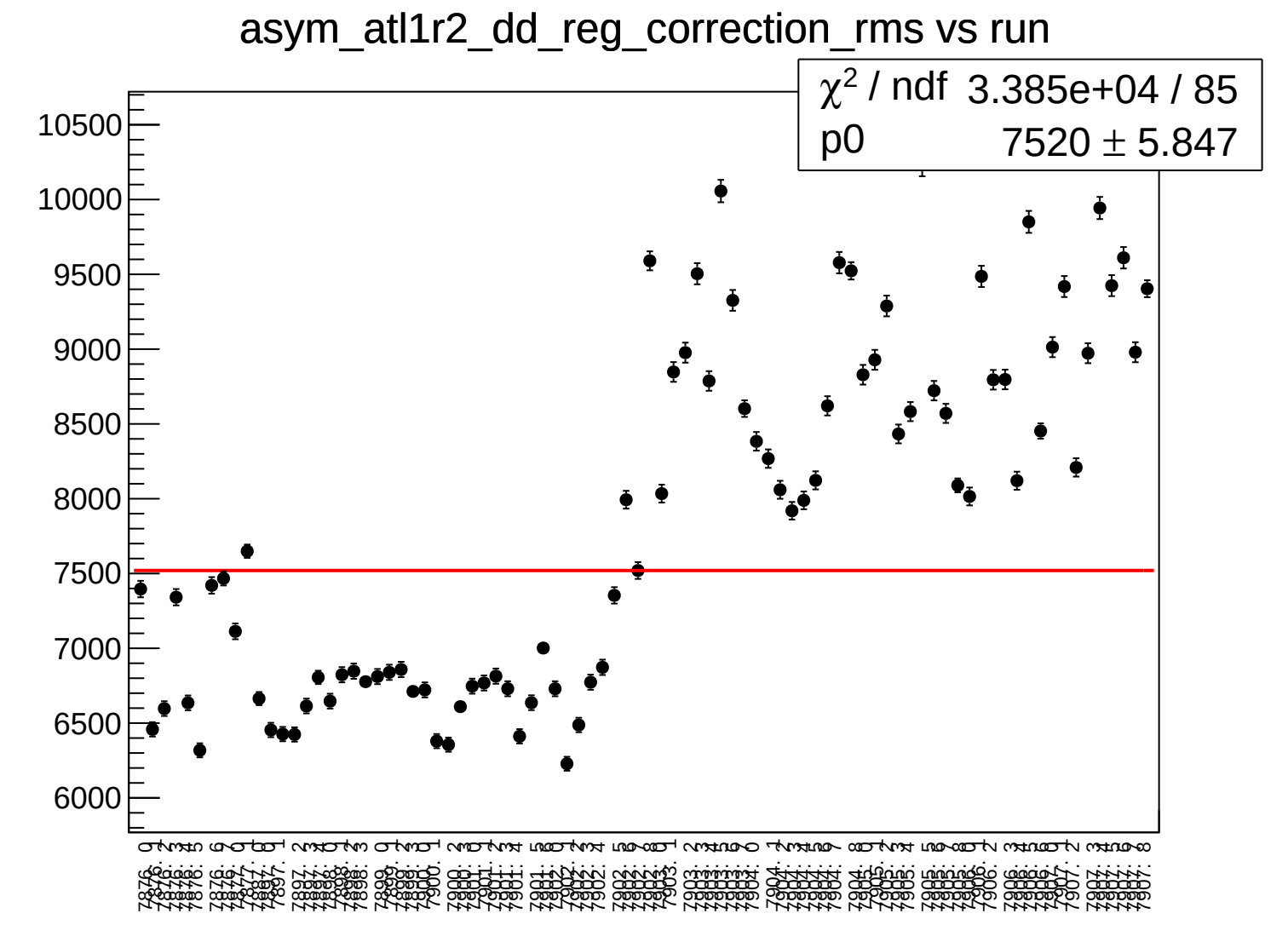

reg_asym_atl1r2_dd_mean vs run
χ^2 / ndf 74.04 / 85
p0 874.7 ± 2034
pull
Entries 86
Mean 341.6
Std Dev 0

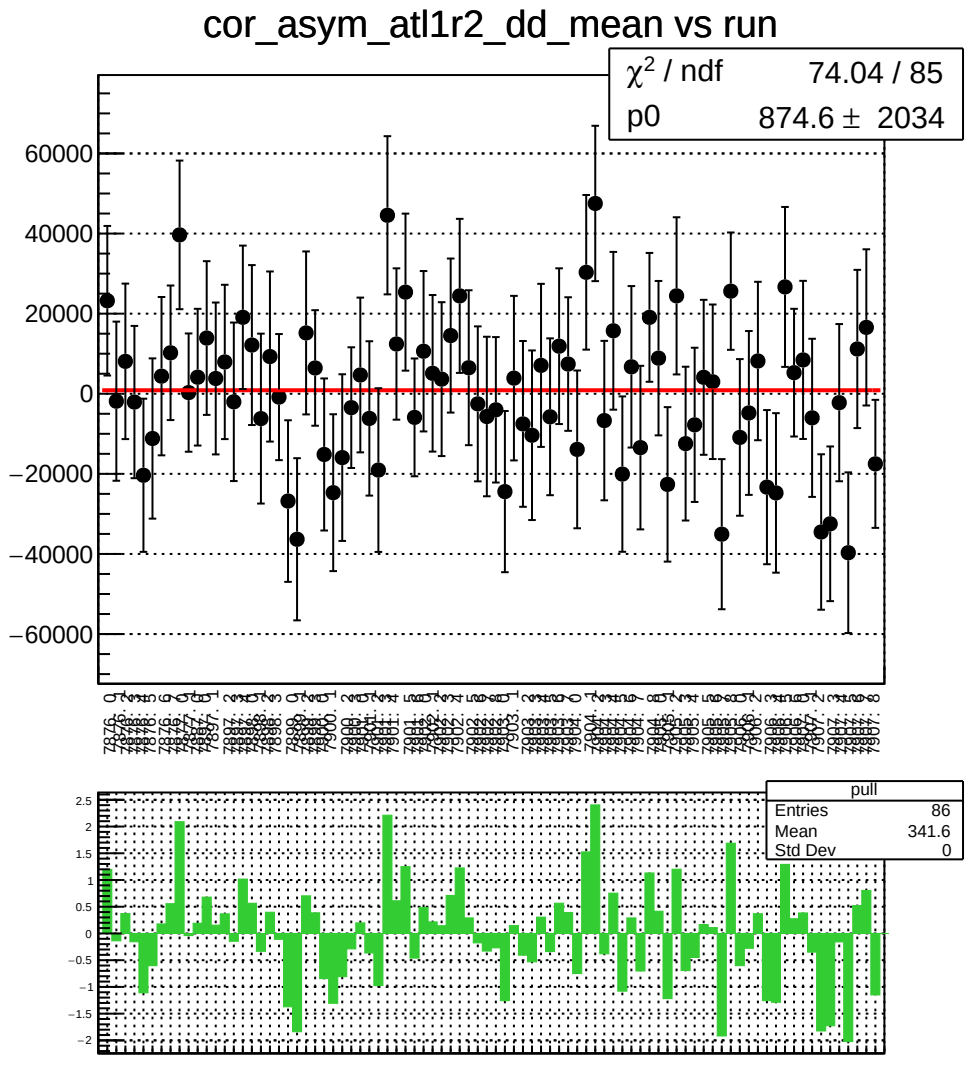

pull1D
Entries 86
Mean −0.0127
Std Dev 0.9278

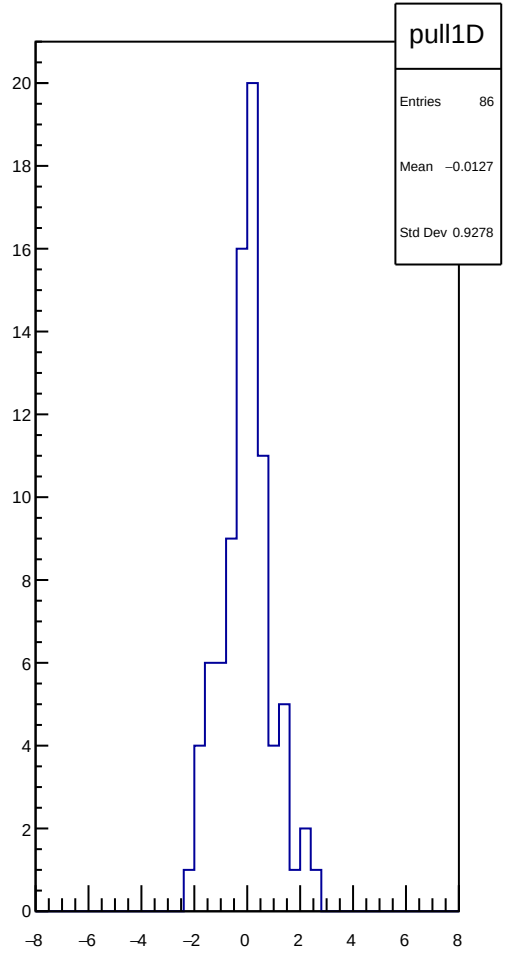

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1342 / 85
p0 1867 ± 1.438
2050
2000
1950
1900
1850
1800
1750

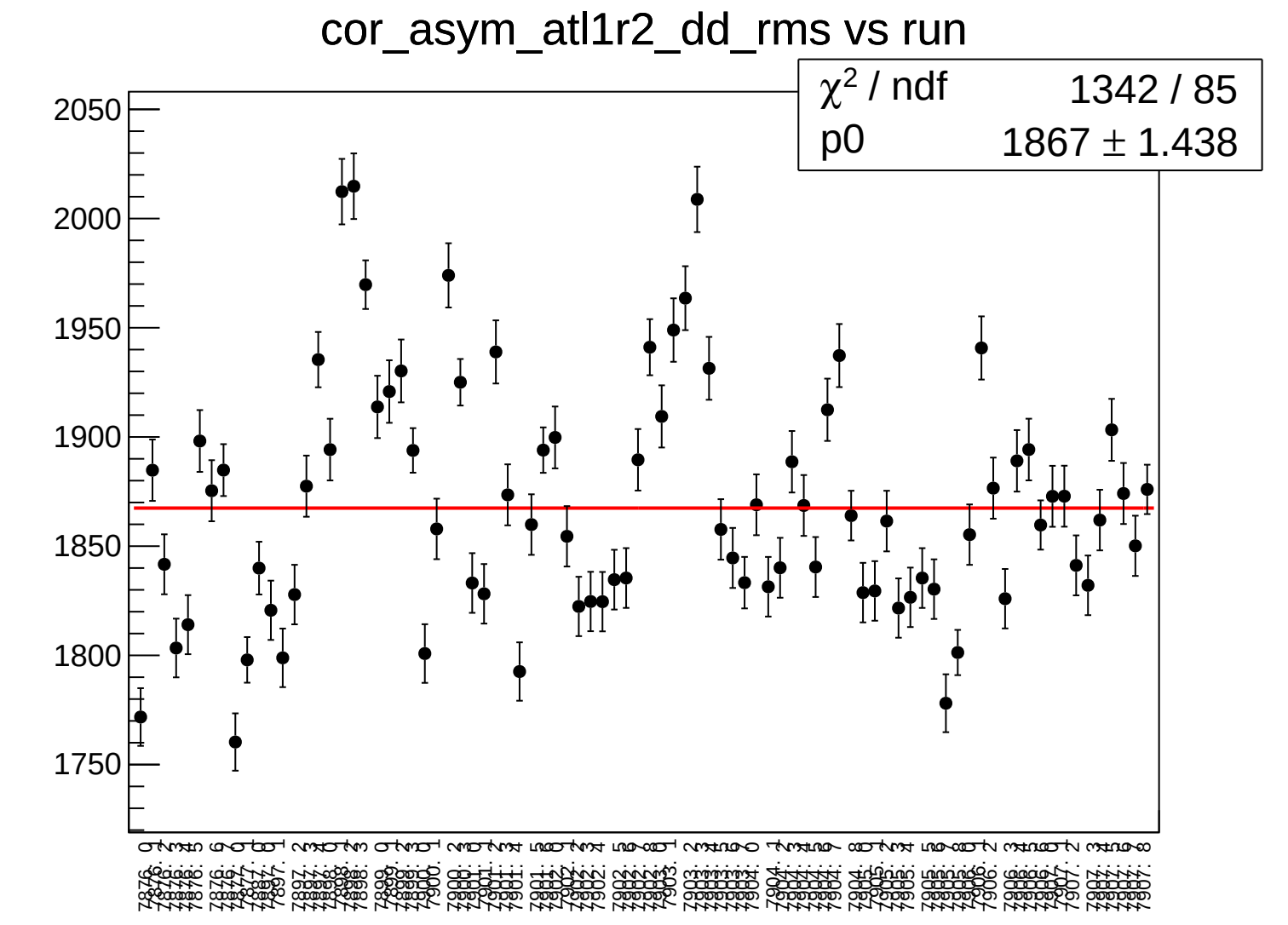

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 71.56 / 85
p0 −1.21e+04 ± 8269
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean 252.9
Std Dev 0
3
2
1
0
−1
−2

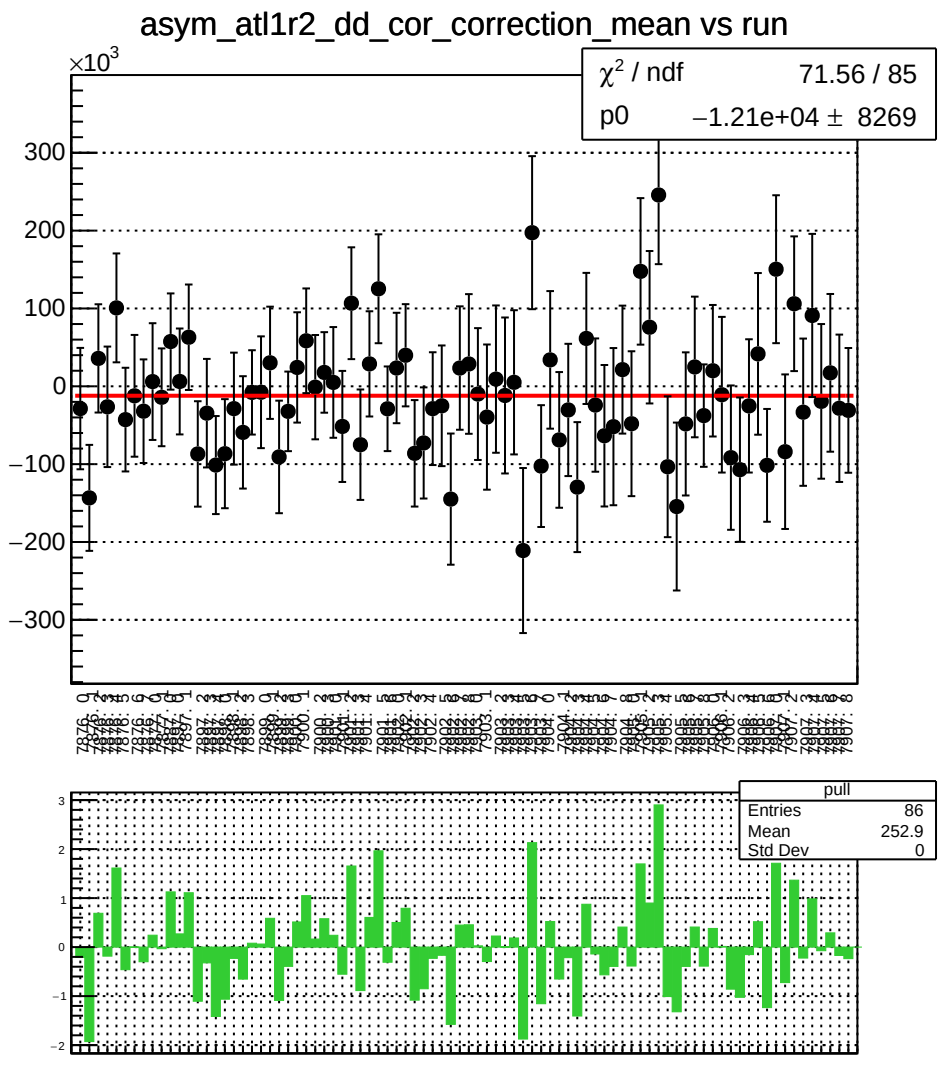

pull1D
Entries 86
Mean 0.004237
Std Dev 0.9122
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

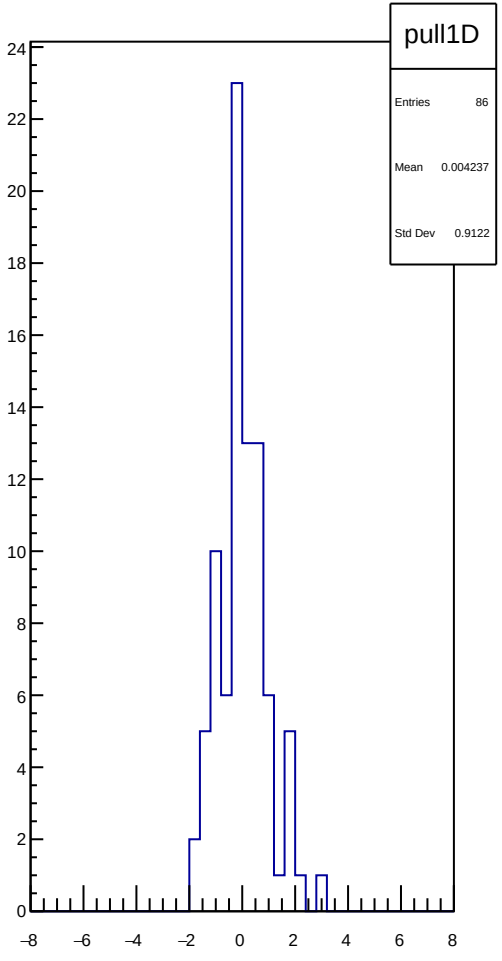

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3.385e+04 / 85
p0 7520 ± 5.847
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

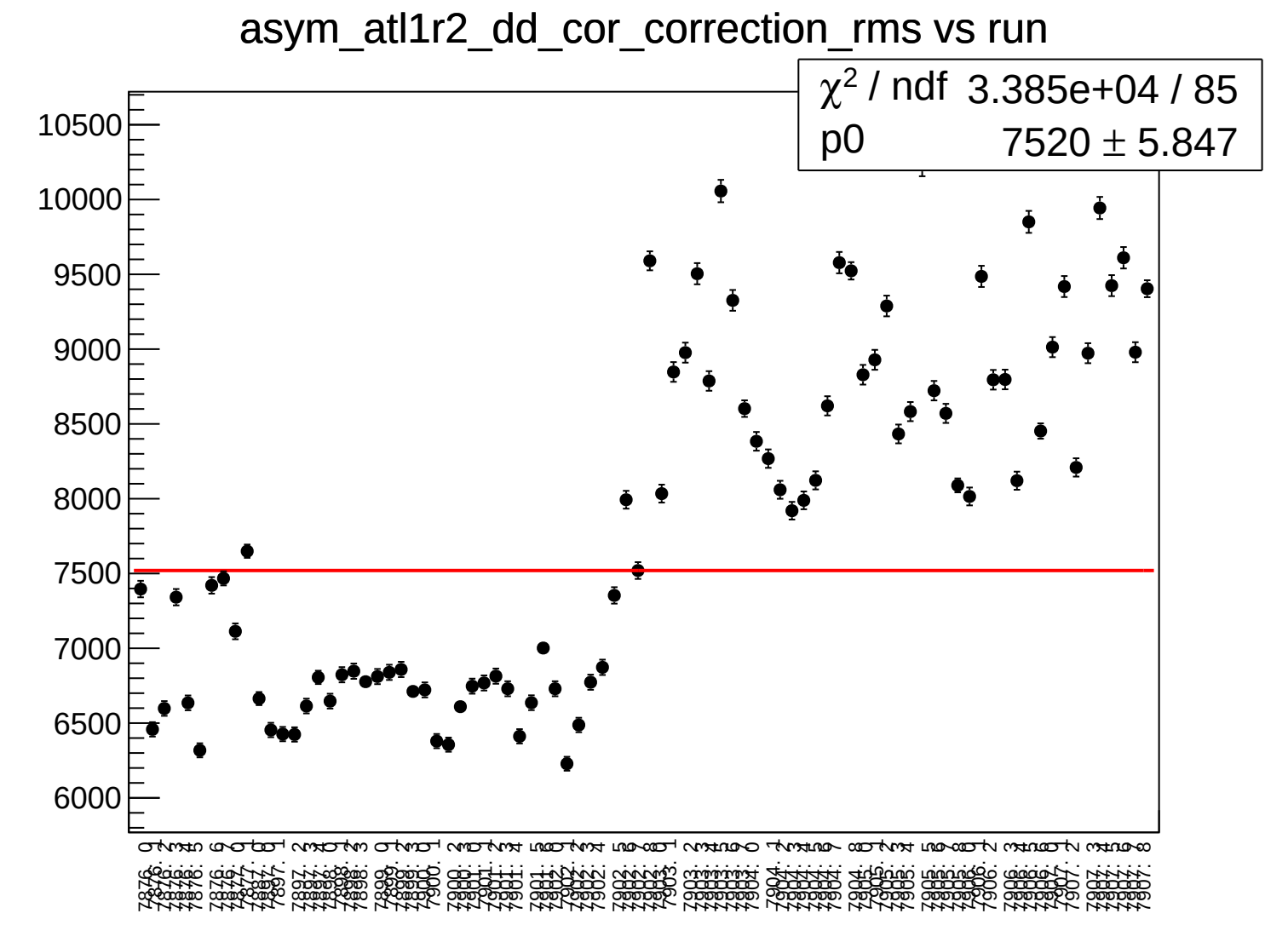

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 74.04 / 85
p0 874.6 ± 2034
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 341.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

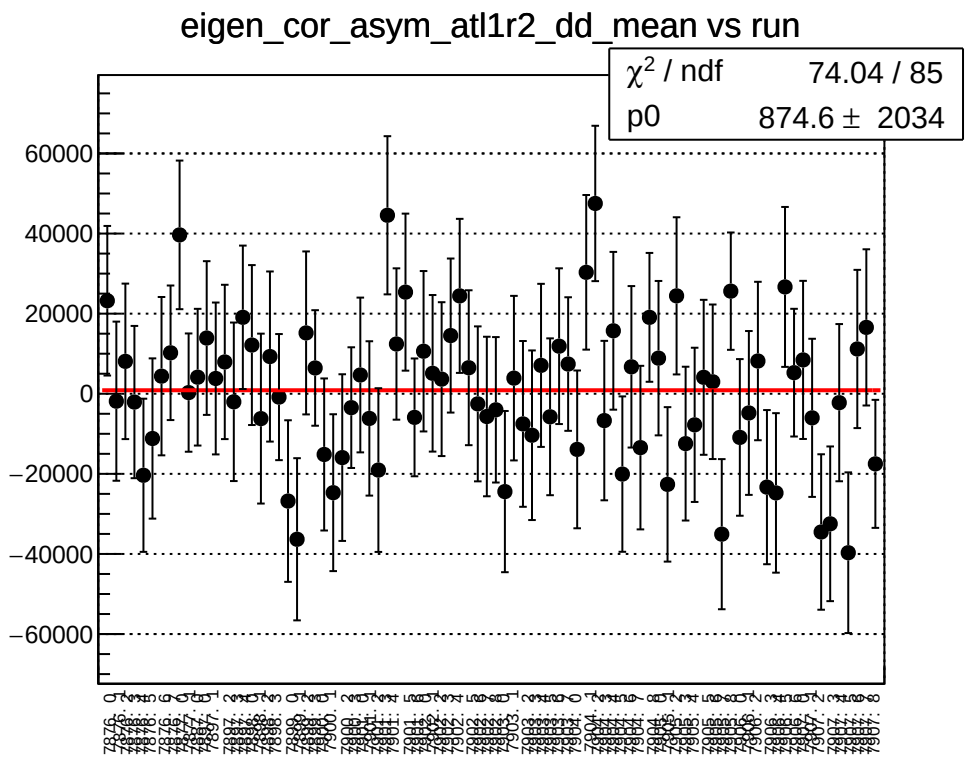

pull1D
Entries 86
Mean −0.0127
Std Dev 0.9278
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

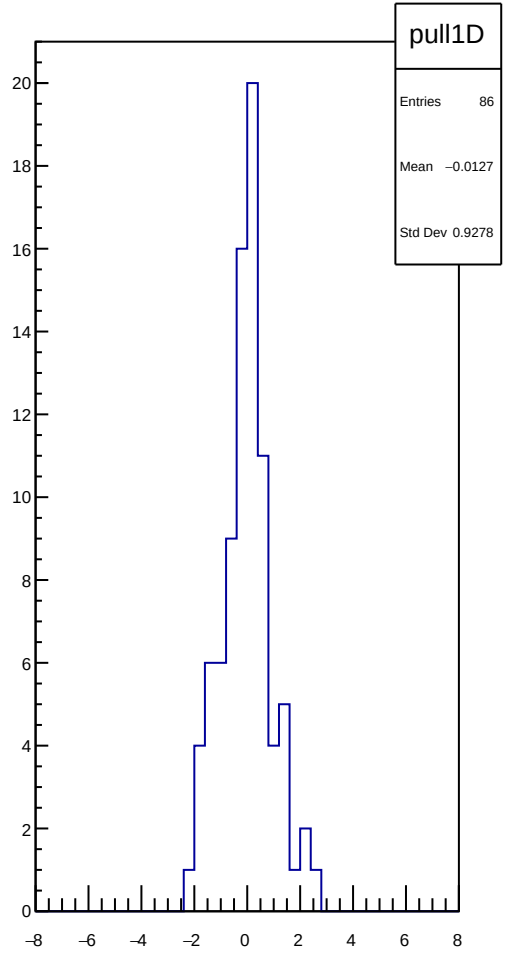

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1342 / 85
p0 1867 ± 1.438
2050
2000
1950
1900
1850
1800
1750

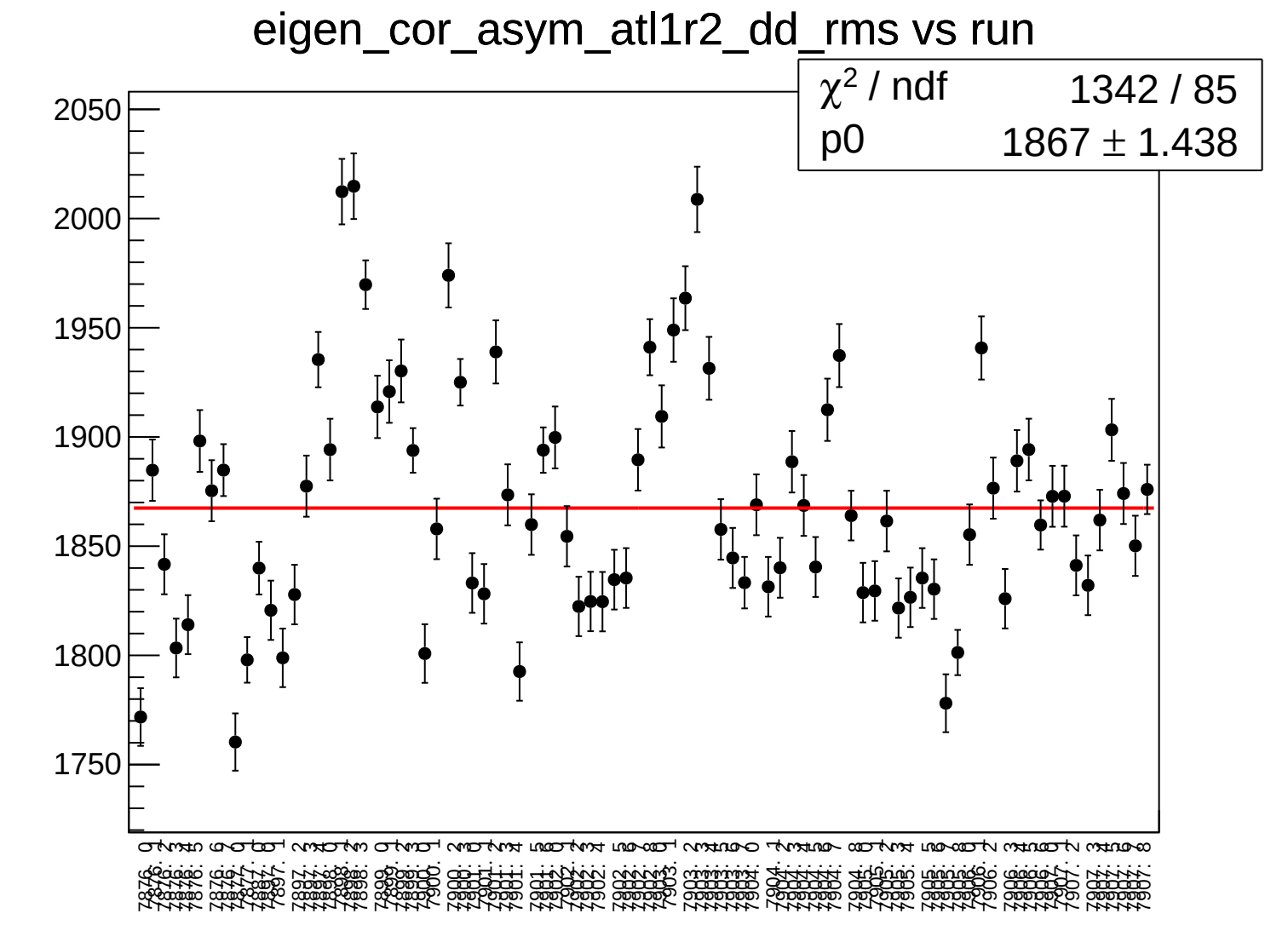

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 71.56 / 85
p0 −1.21e+04 ± 8269
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean 252.9
Std Dev 0
3
2
1
0
−1
−2

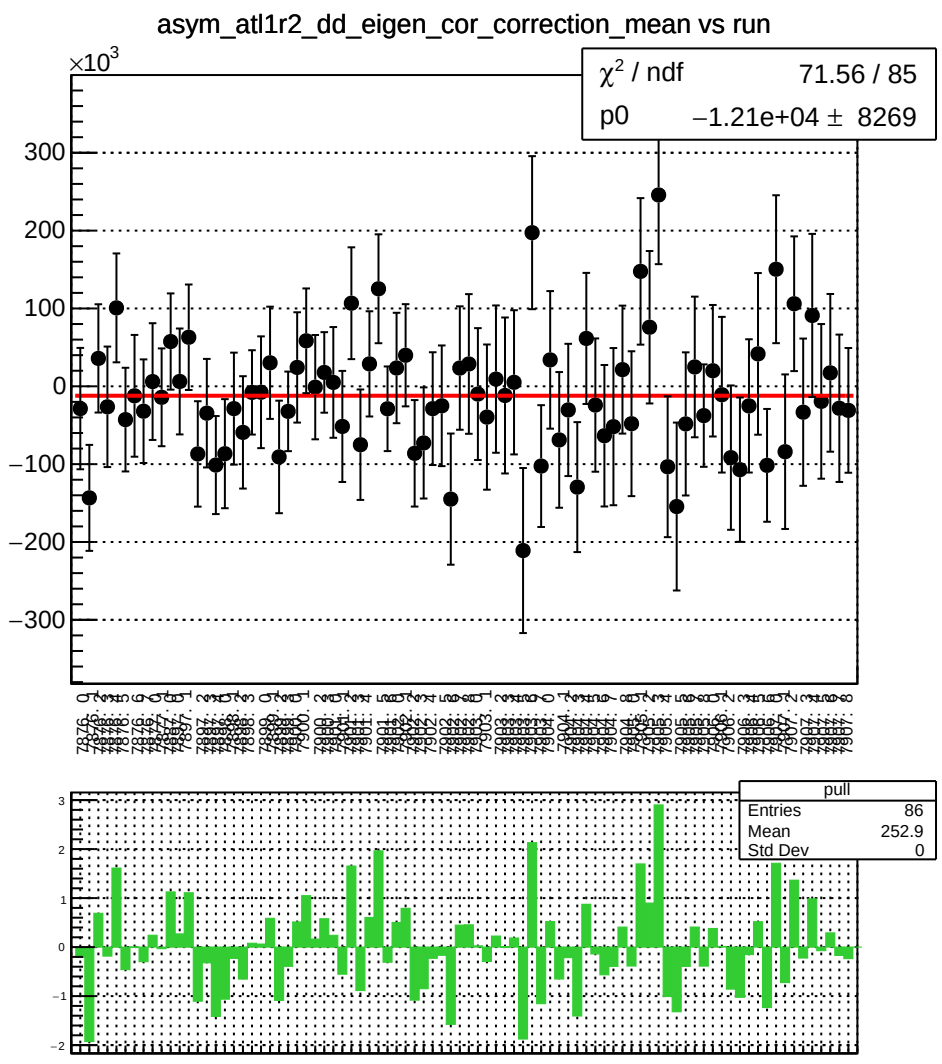

pull1D
Entries 86
Mean 0.004237
Std Dev 0.9122
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

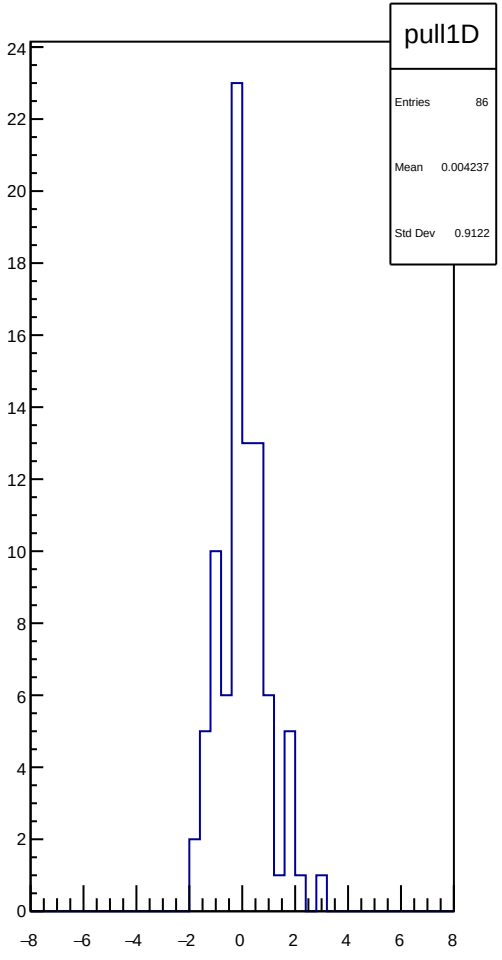

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3.385e+04 / 85
p0 7520 ± 5.847
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

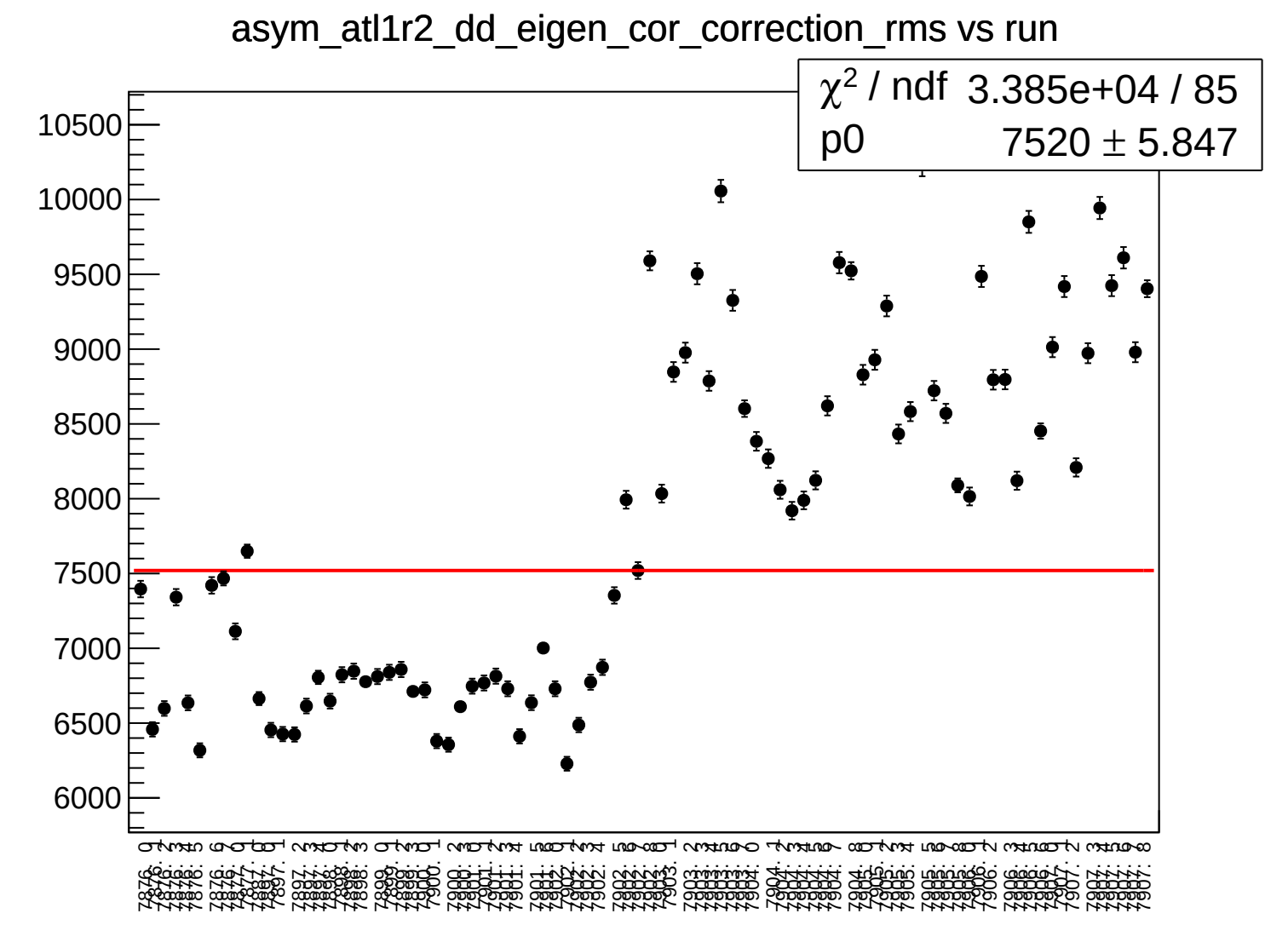

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 74.04 / 85
p0 874.6 ± 2034
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 341.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

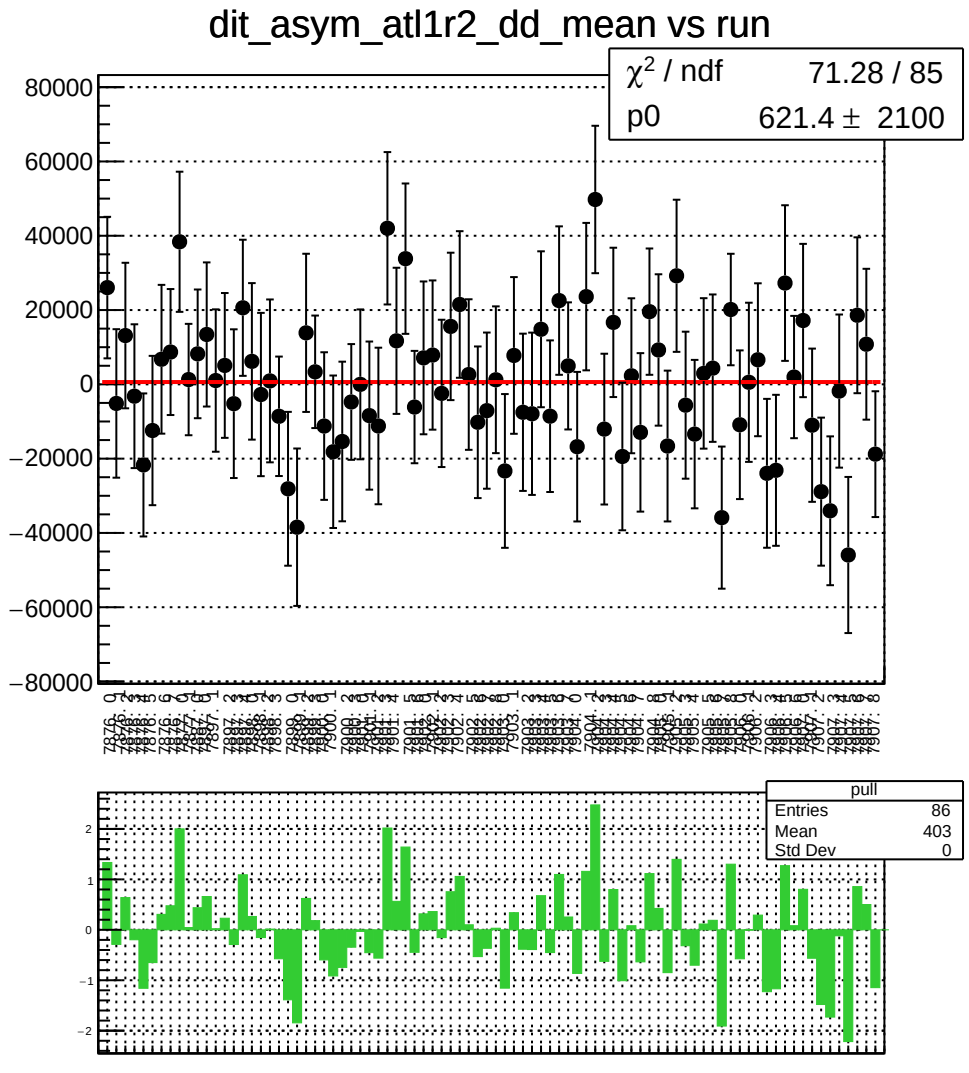

pull1D
Entries 86
Mean −0.0127
Std Dev 0.9278
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

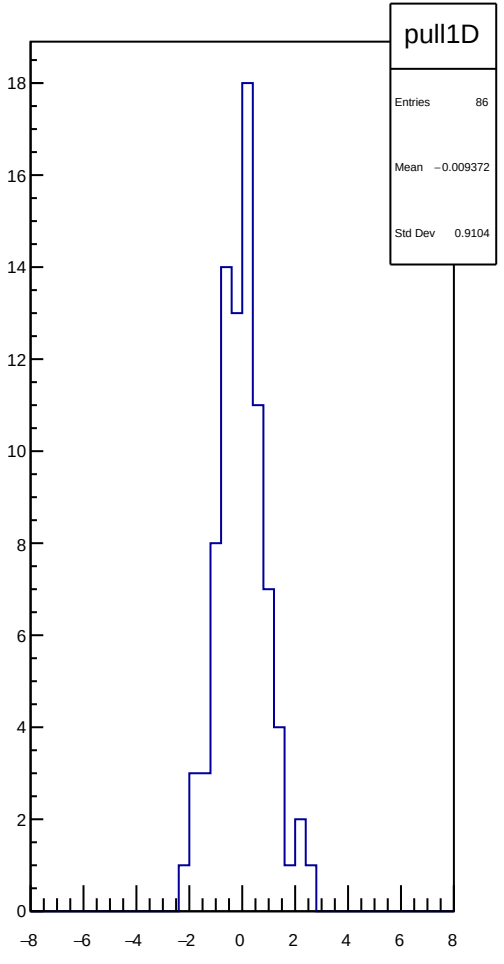

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1342 / 85
p0 1867 ± 1.438
2050
2000
1950
1900
1850
1800
1750

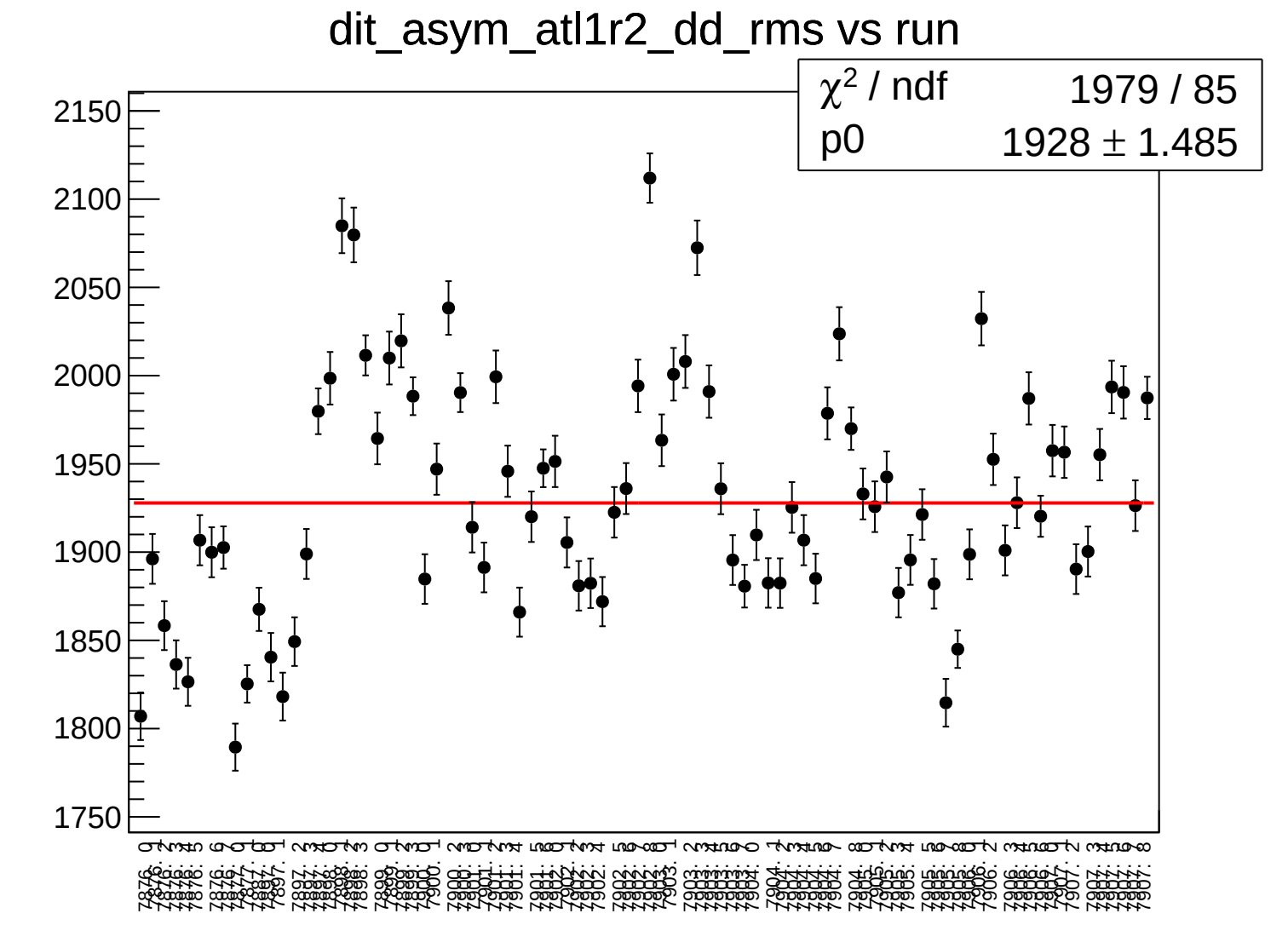

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 71.56 / 85
p0 −1.21e+04 ± 8269
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean 252.9
Std Dev 0
3
2
1
0
−1
−2

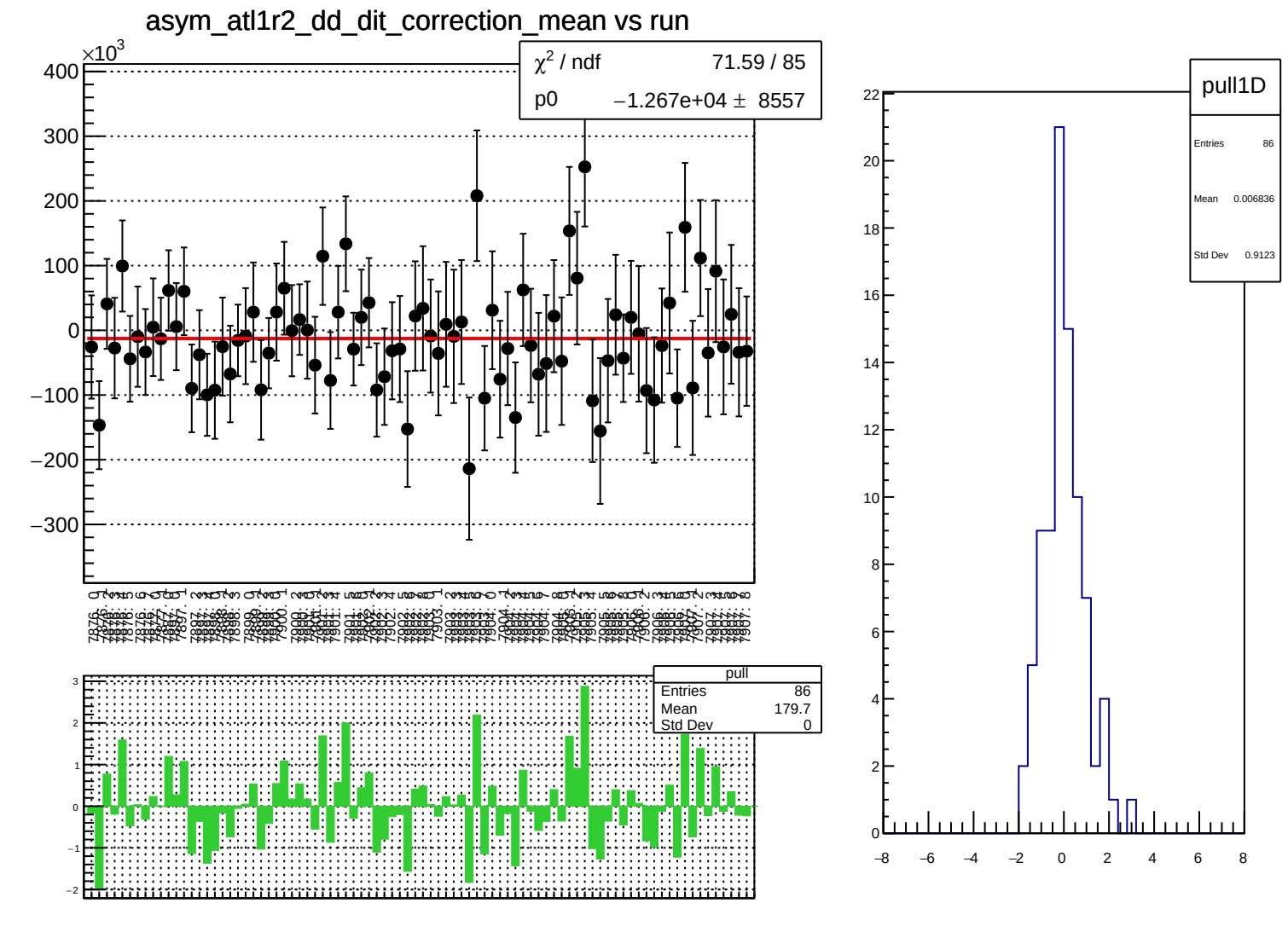

pull1D
Entries 86
Mean 0.004237
Std Dev 0.9122
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

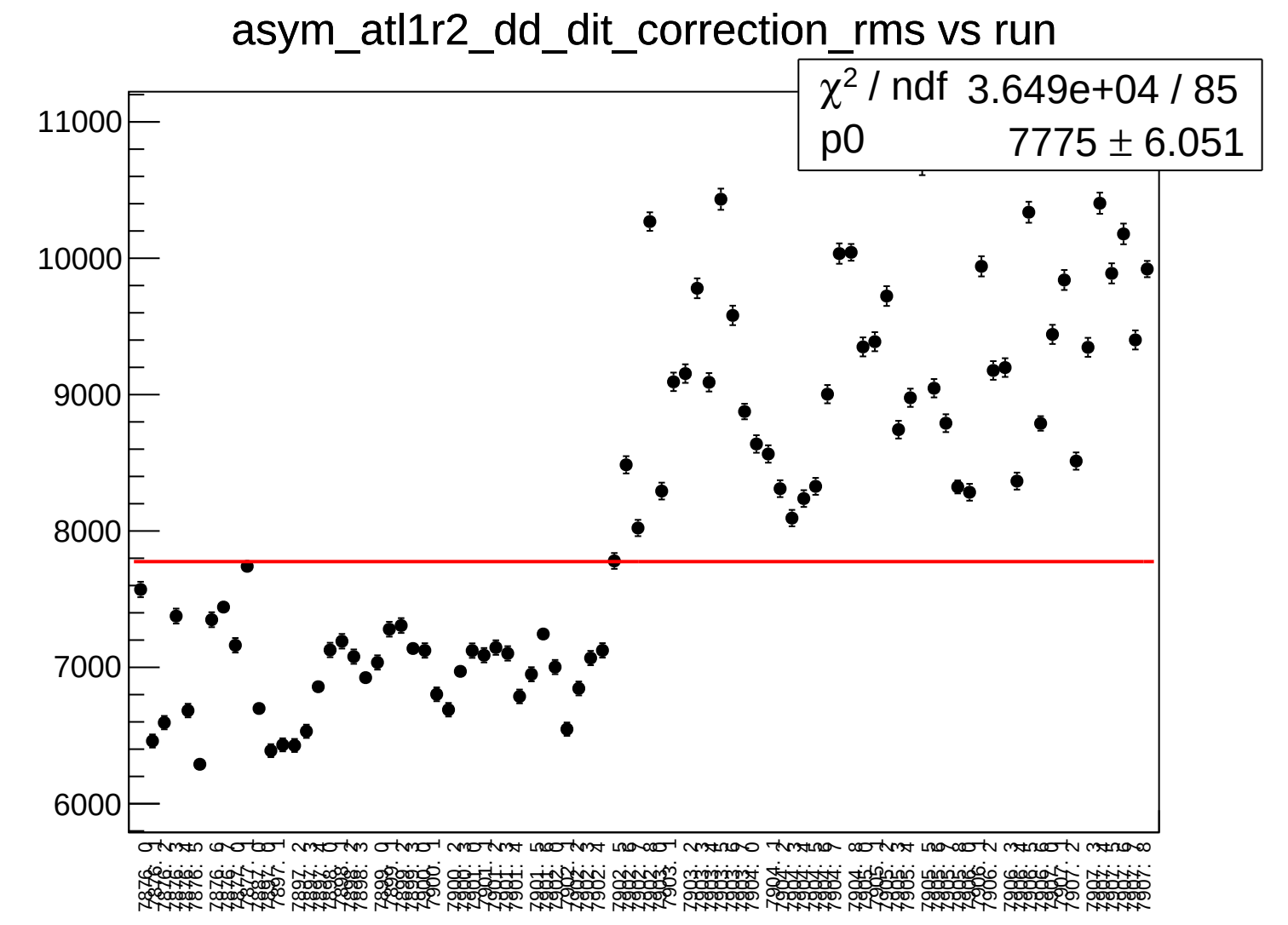

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.385e+04 / 85
p0 7520 ± 5.847
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

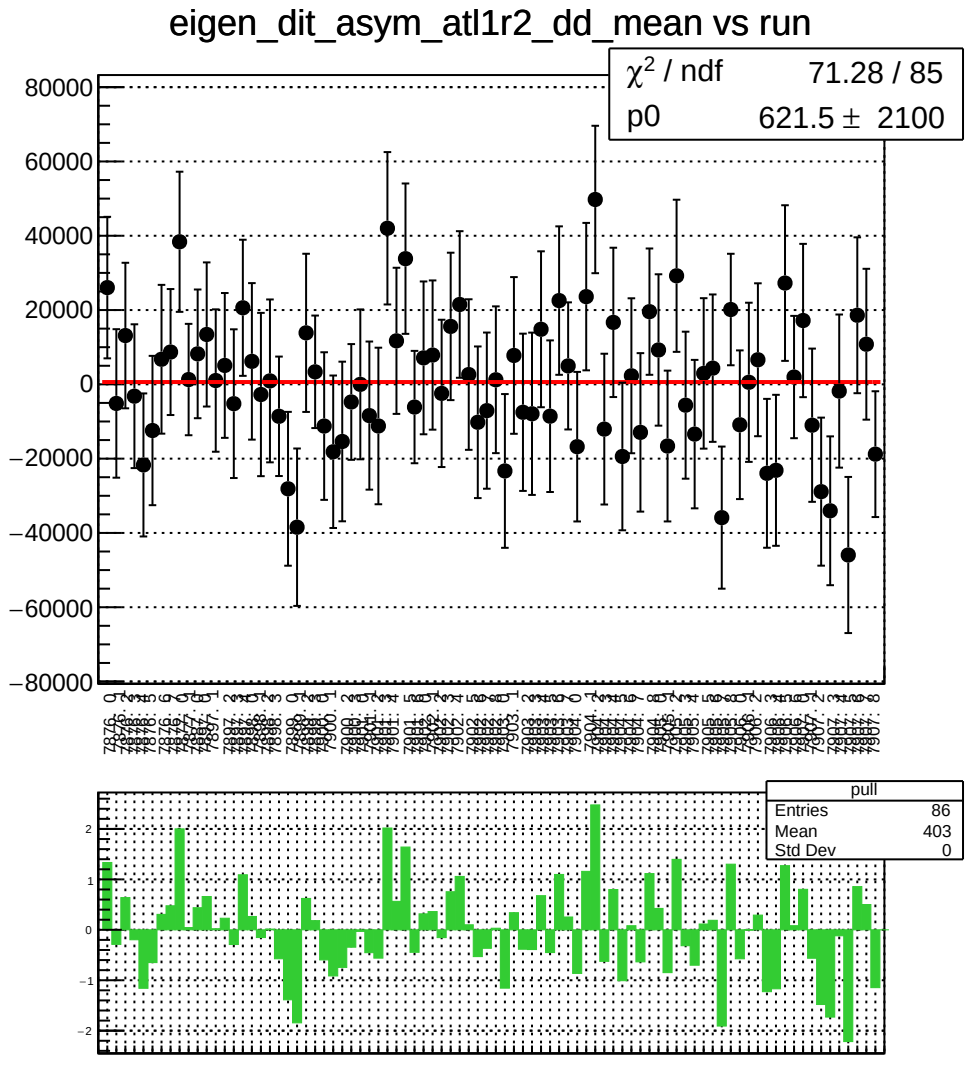

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 71.28 / 85
p0 621.4 ± 2100
pull
Entries 86
Mean 403
Std Dev 0

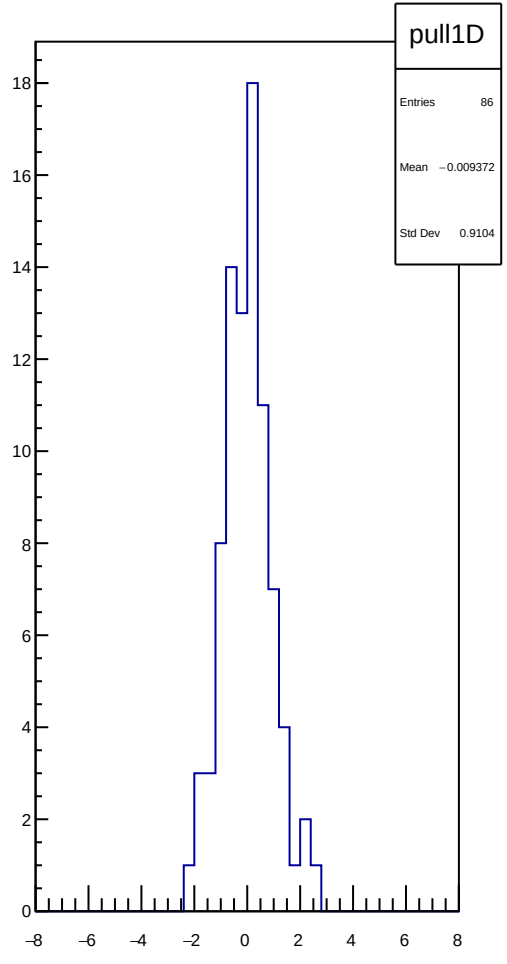

pull1D
Entries 86
Mean −0.009372
Std Dev 0.9104

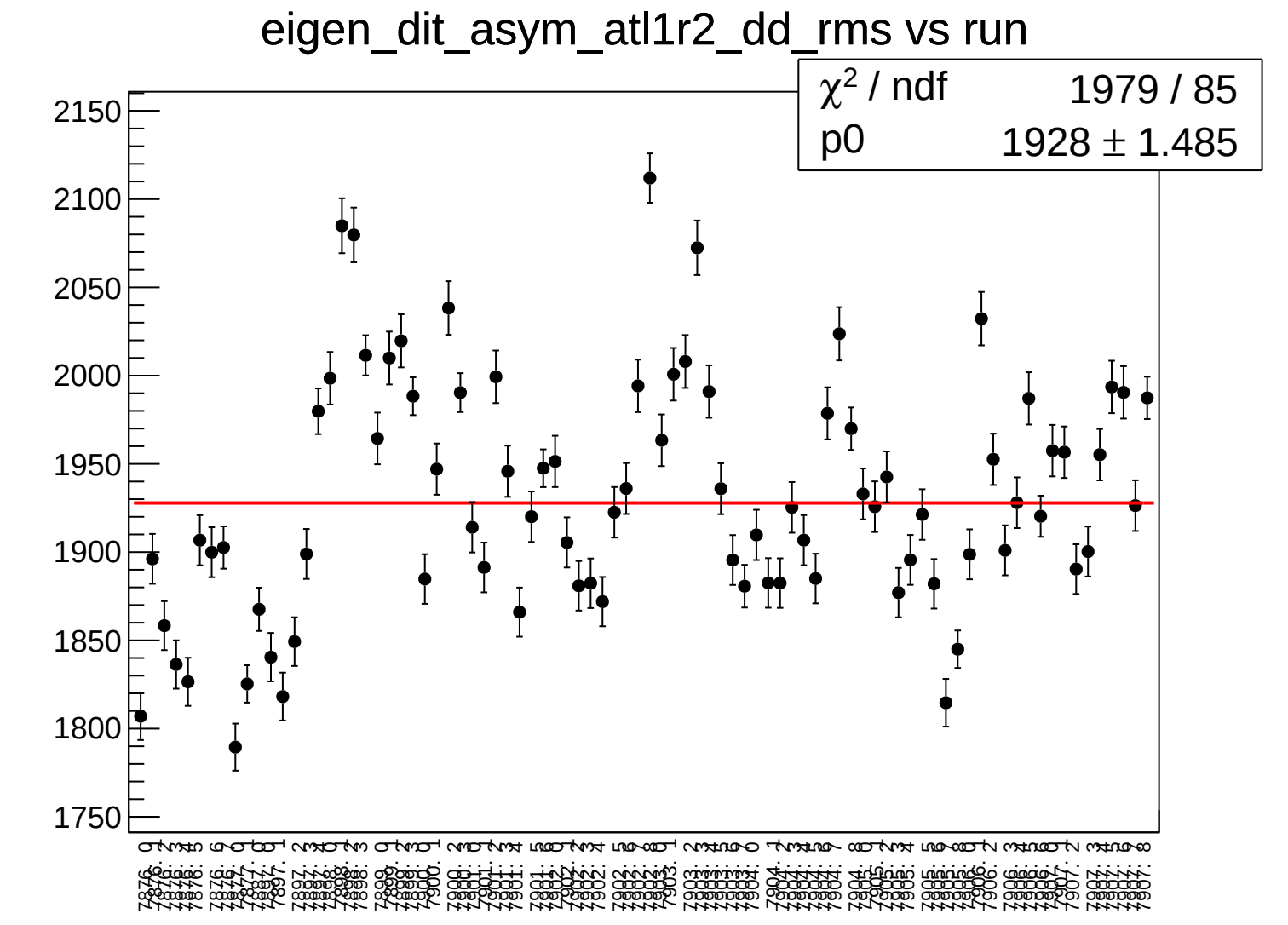

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1979 / 85
p0 1928 ± 1.485
2150
2100
2050
2000
1950
1900
1850
1800
1750

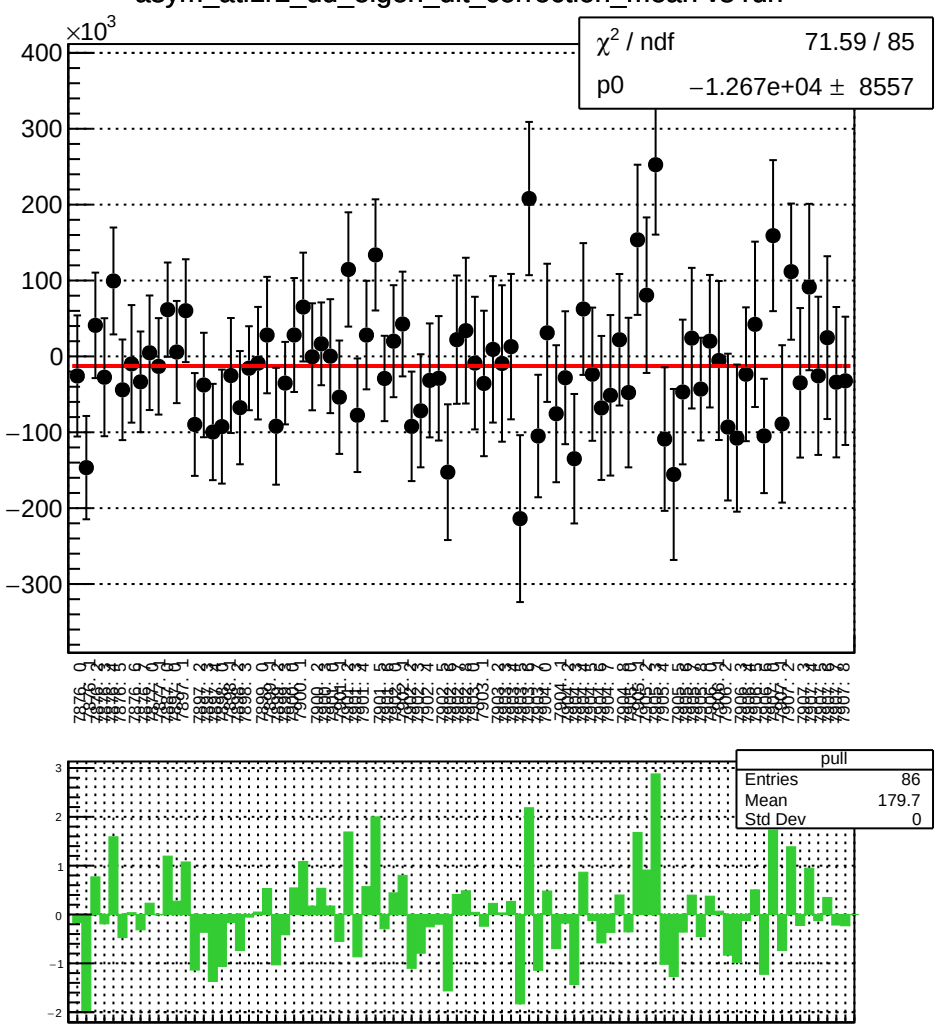

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 71.59 / 85
p0 −1.267e+04 ± 8557
pull
Entries 86
Mean 179.7
Std Dev 0
pull1D
Entries 86
Mean 0.006836
Std Dev 0.9123

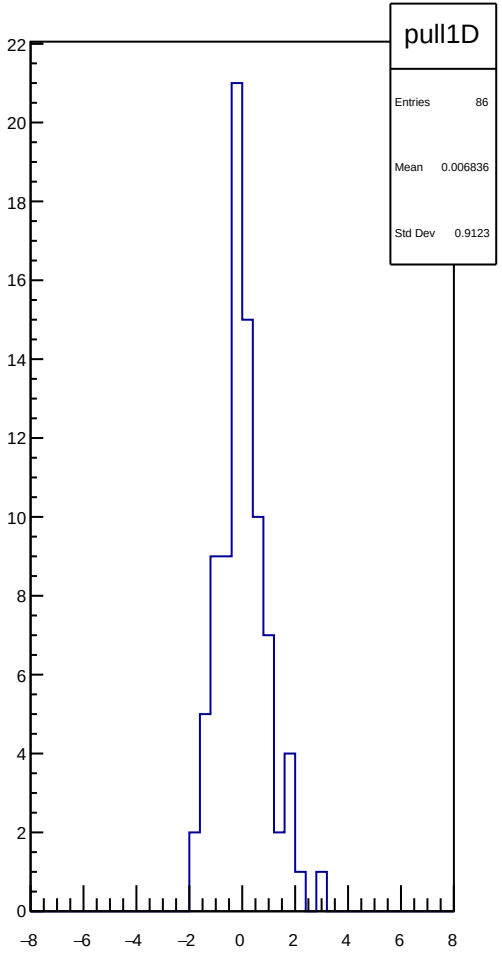

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 3.649e+04 / 85
p0 7775 ± 6.051
11000
10000
9000
8000
7000
6000

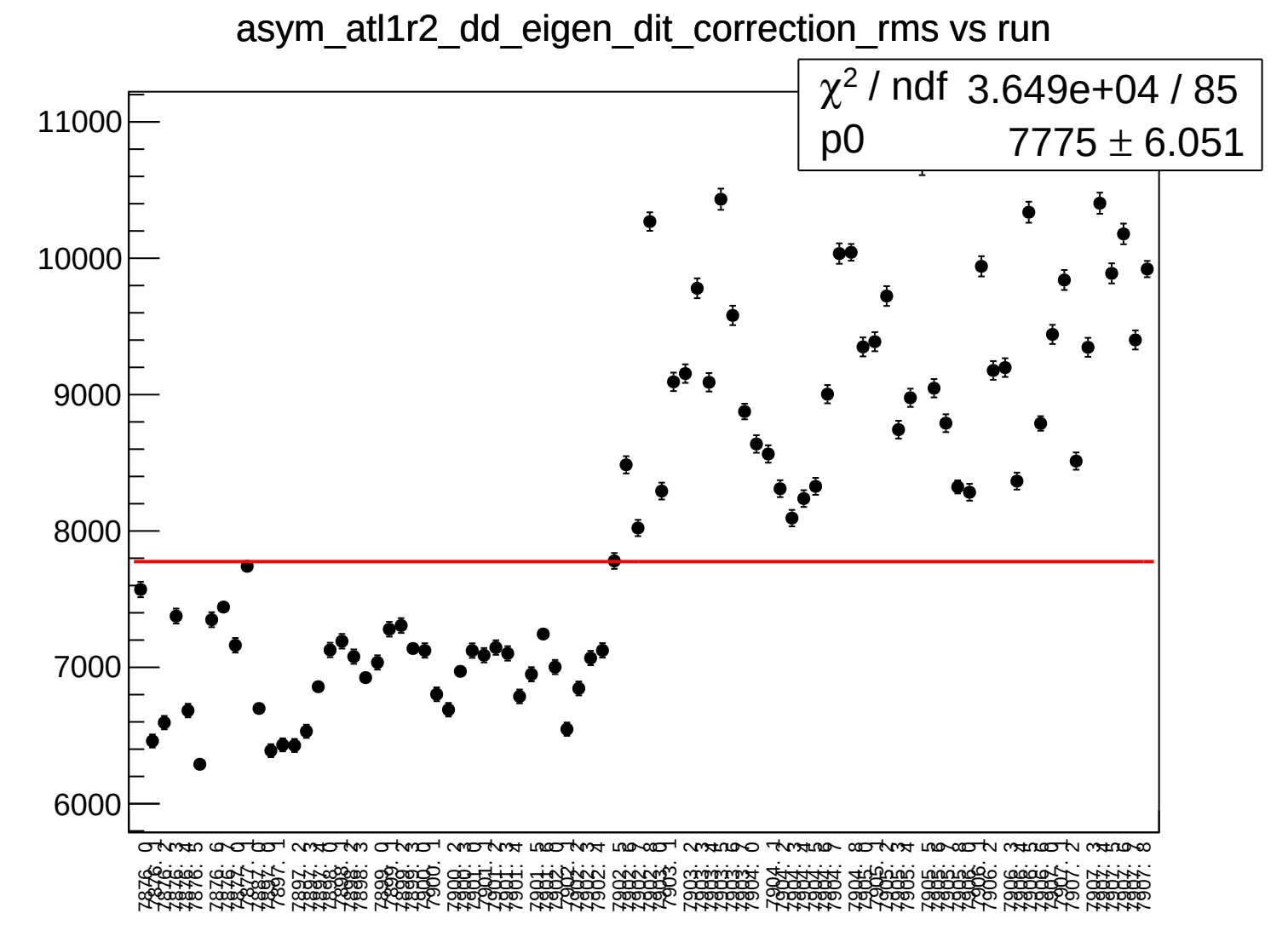

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 71.28 / 85
p0 621.5 ± 2100
pull
Entries 86
Mean 403
Std Dev 0

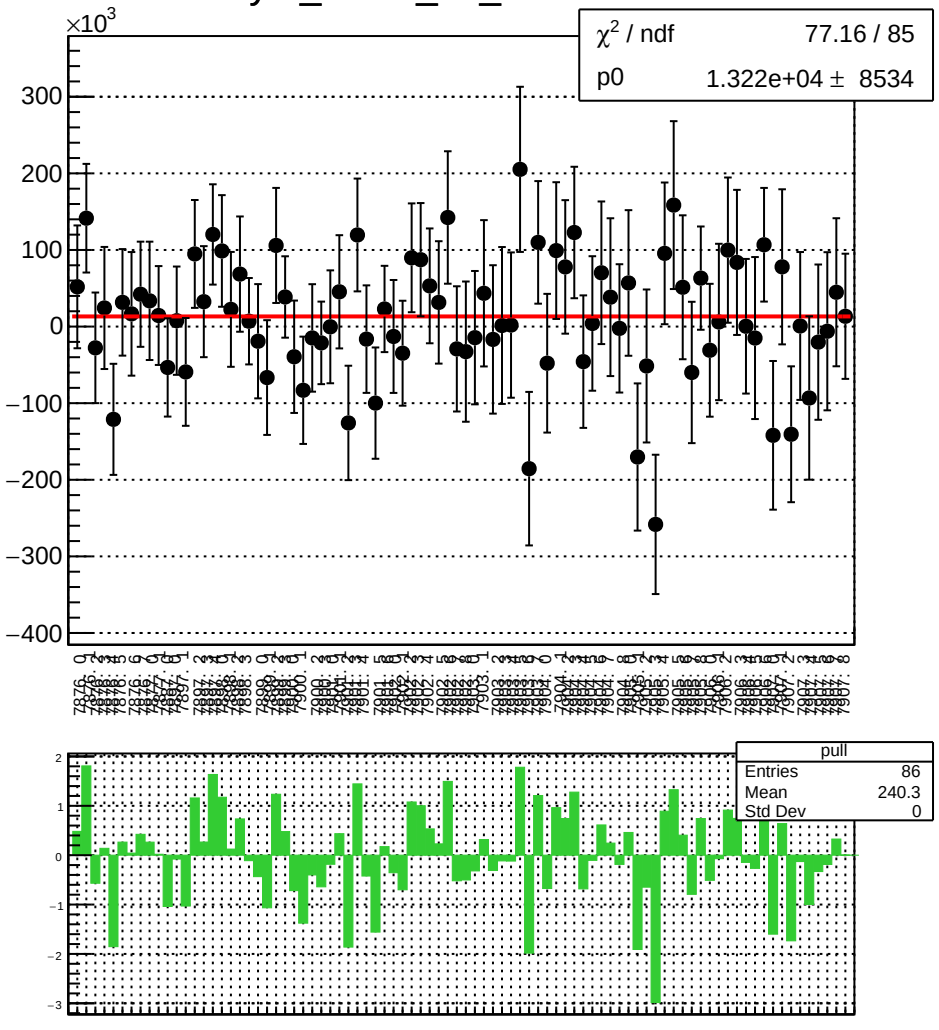

pull1D
Entries 86
Mean −0.009372
Std Dev 0.9104

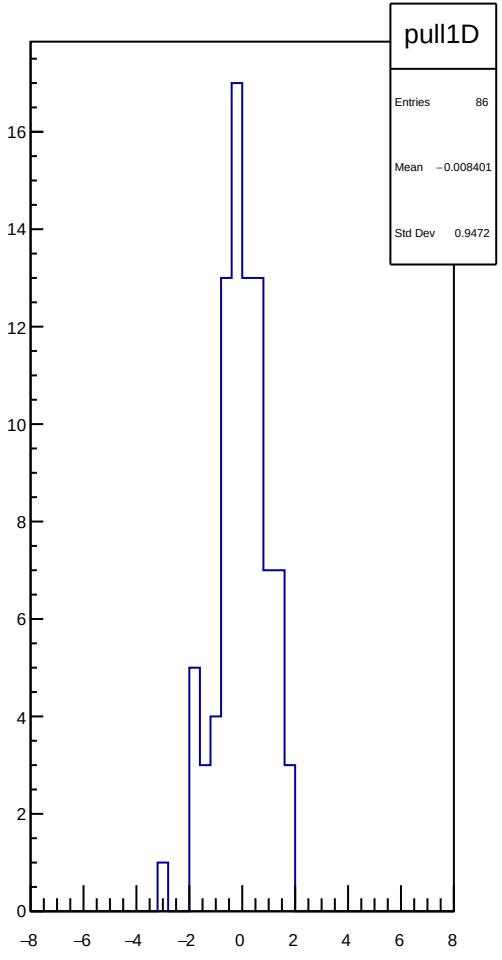

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1979 / 85
p0 1928 ± 1.485
2150
2100
2050
2000
1950
1900
1850
1800
1750


asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 71.59 / 85
p0 −1.267e+04 ± 8557
pull
Entries 86
Mean 179.7
Std Dev 0


pull1D
Entries 86
Mean 0.006836
Std Dev 0.9123


asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3.649e+04 / 85
p0 7775 ± 6.051
11000
10000
9000
8000
7000
6000


asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 77.16 / 85
p0 1.322e+04 ± 8534
300
200
100
0
−100
−200
−300
−400
pull
Entries 86
Mean 240.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.008401
Std Dev 0.9472
16
14
12
10
8
6
4
2
0
−8
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−4
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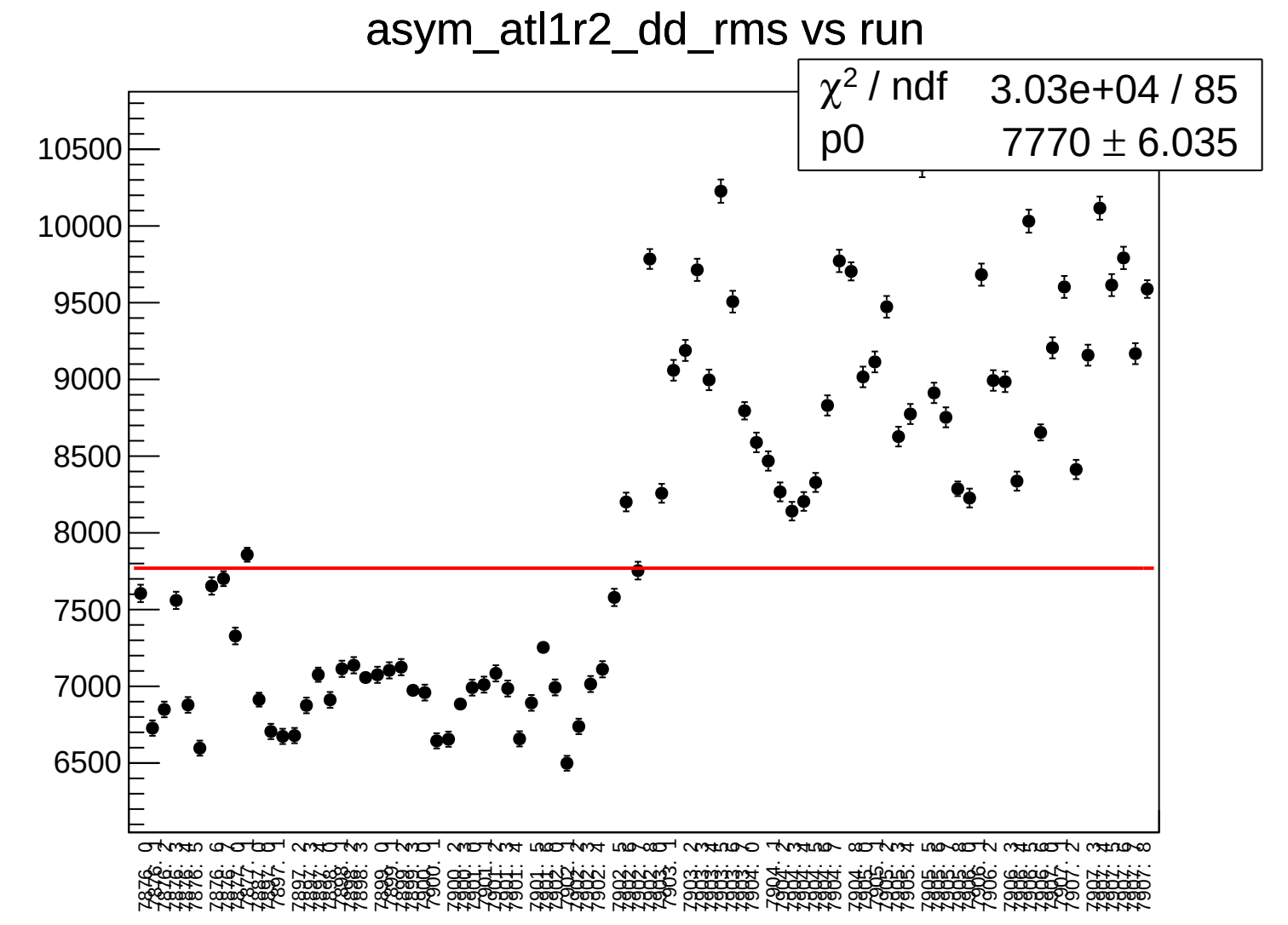
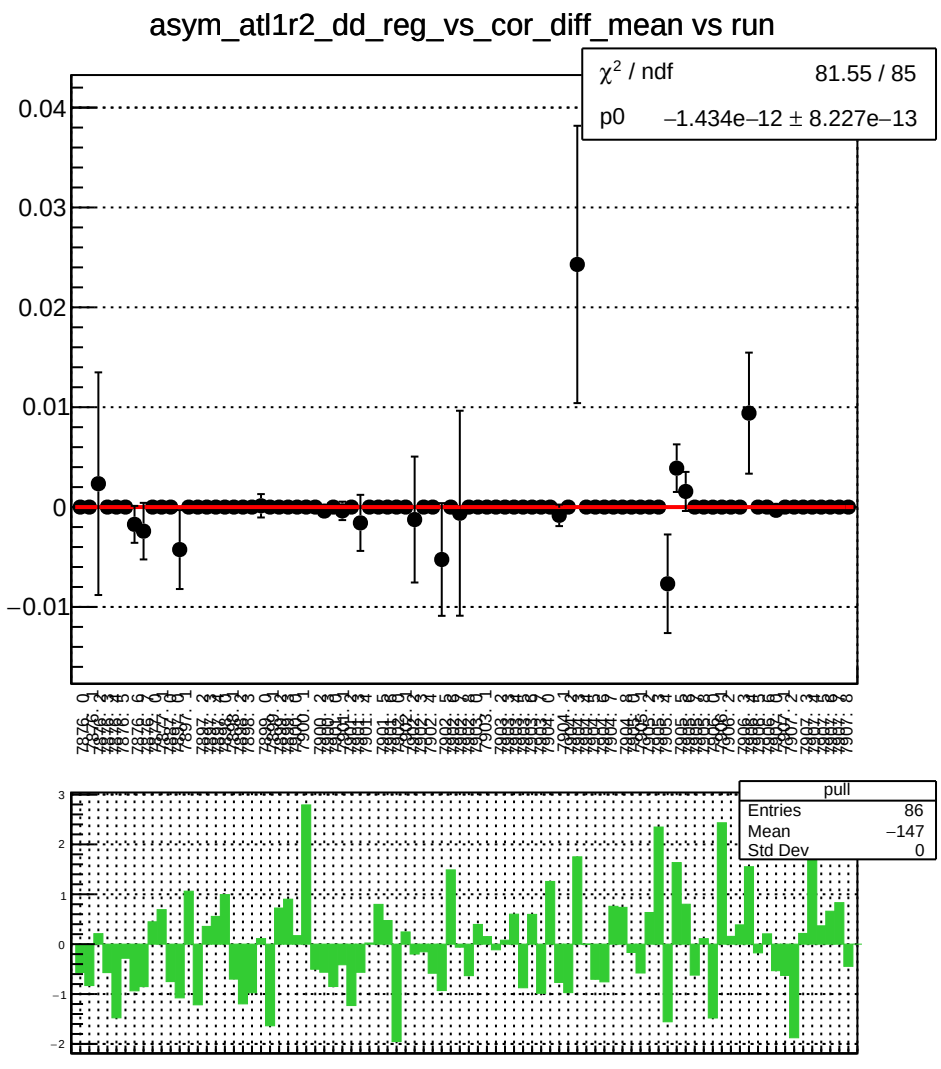
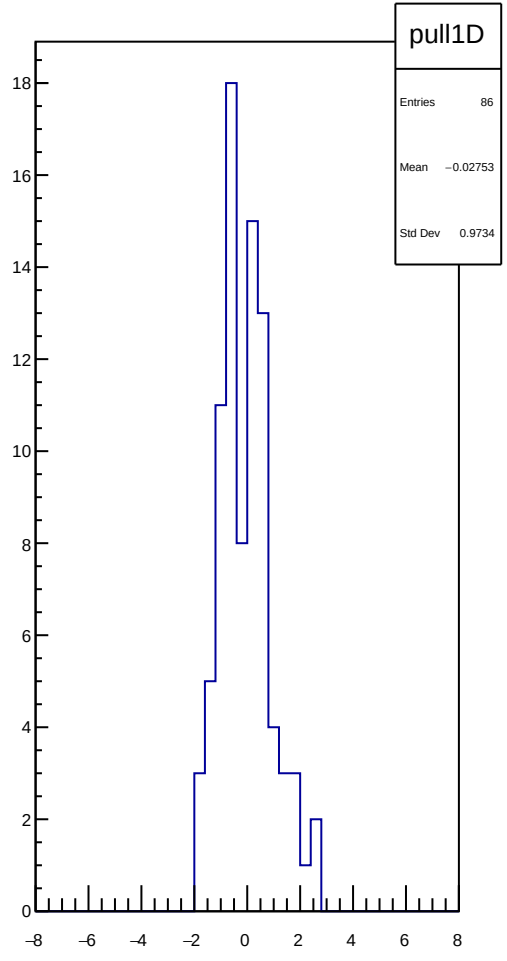
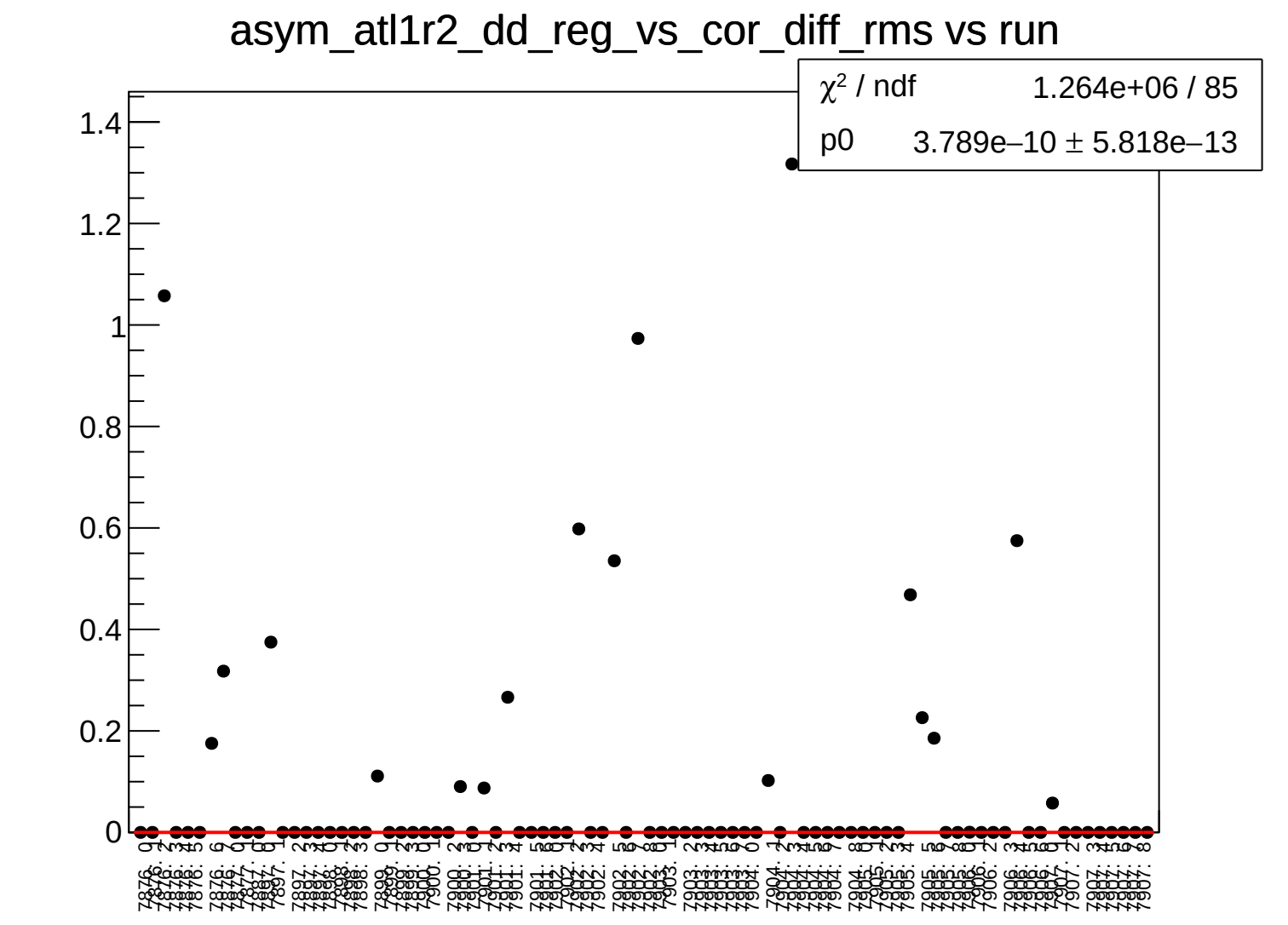
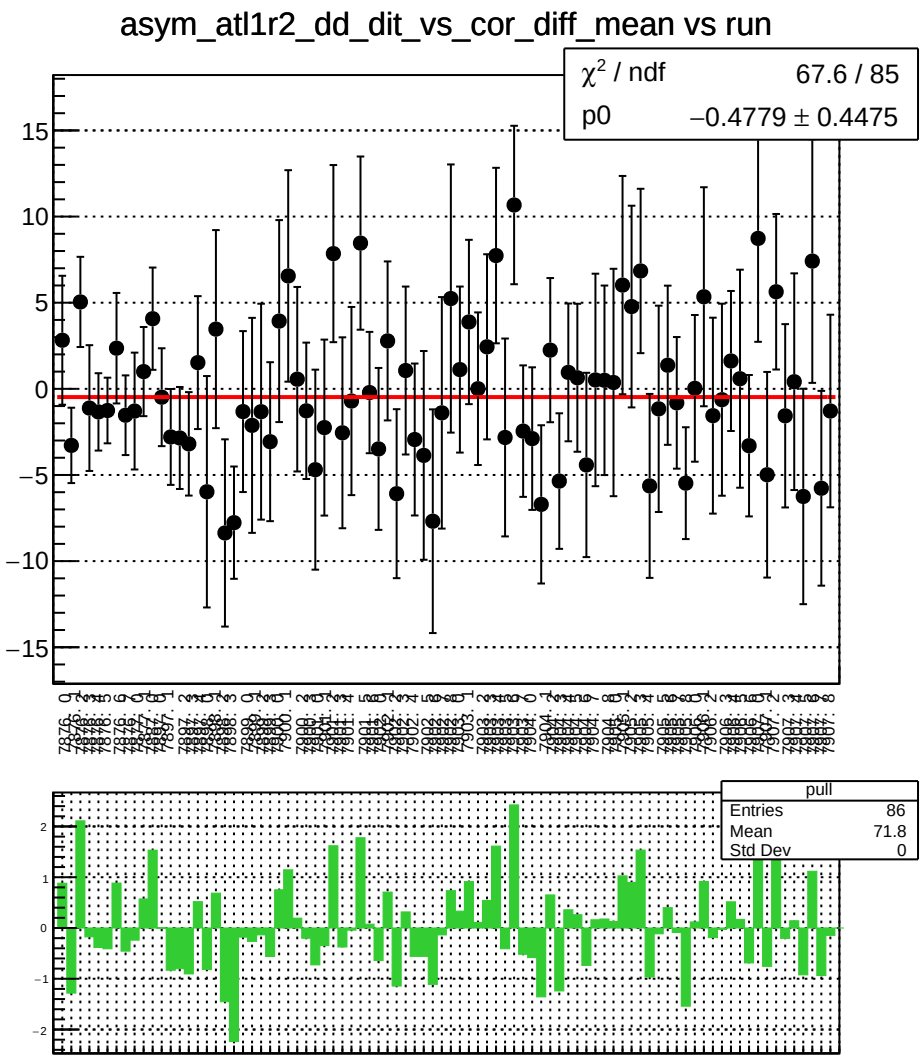
2
4
6
8

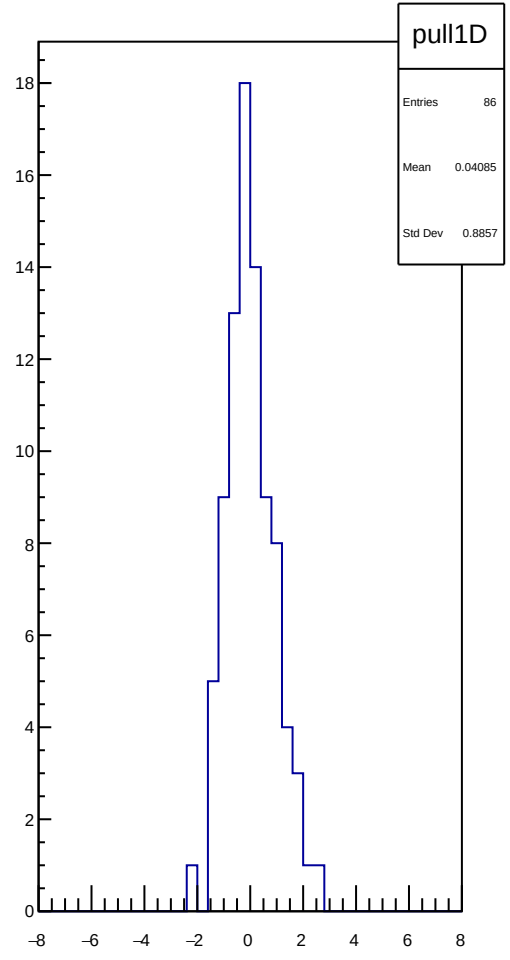

asym_atl1r2_dd_rms vs run
χ^2 / ndf 3.03e+04 / 85
p0 7770 ± 6.035
10500
10000
9500
9000
8500
8000
7500
7000
6500

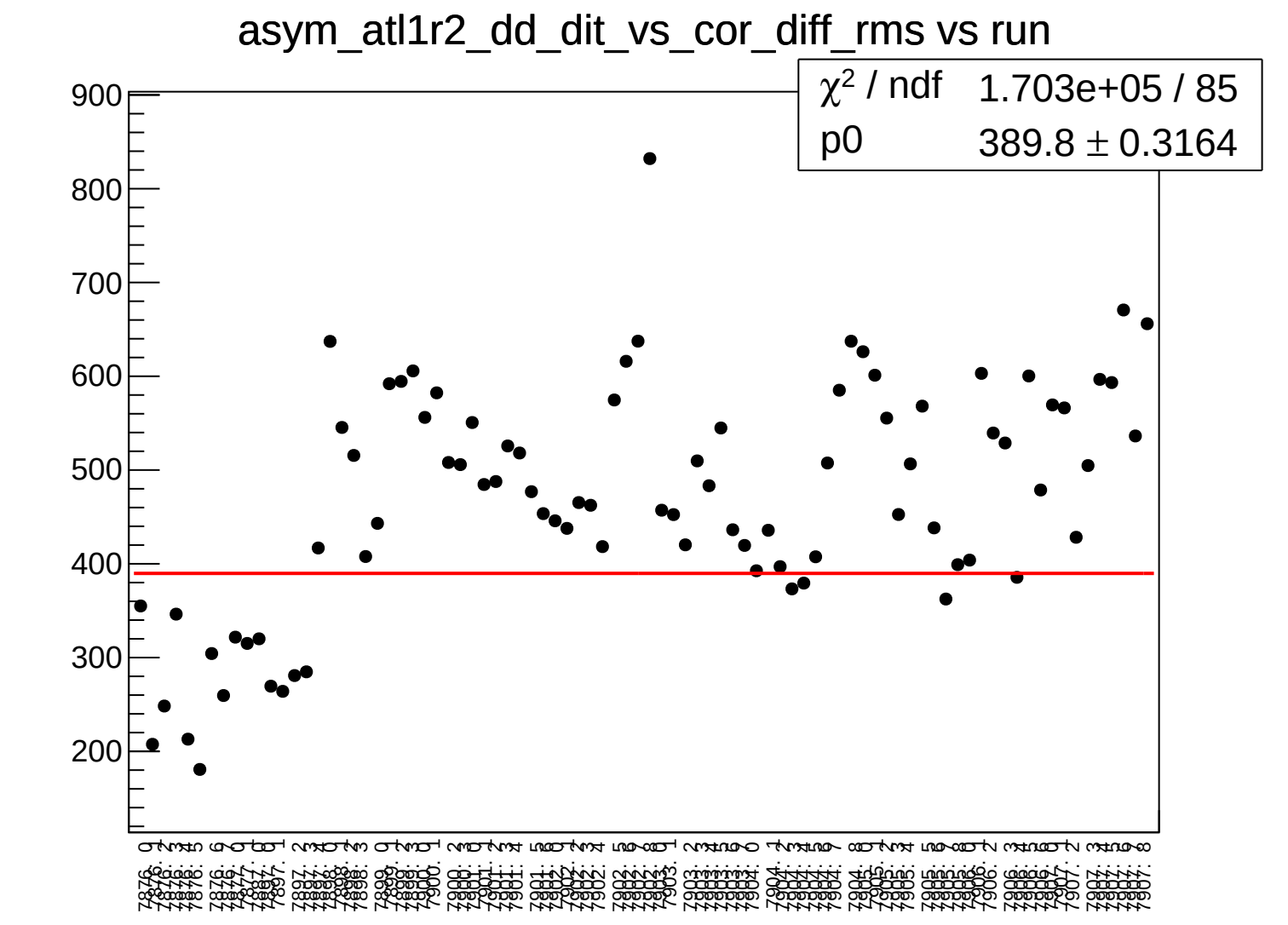

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.55 / 85
p0 −1.434e−12 ± 8.227e−13
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 86
Mean −147
Std Dev 0
3
2
1
0
−1
−2

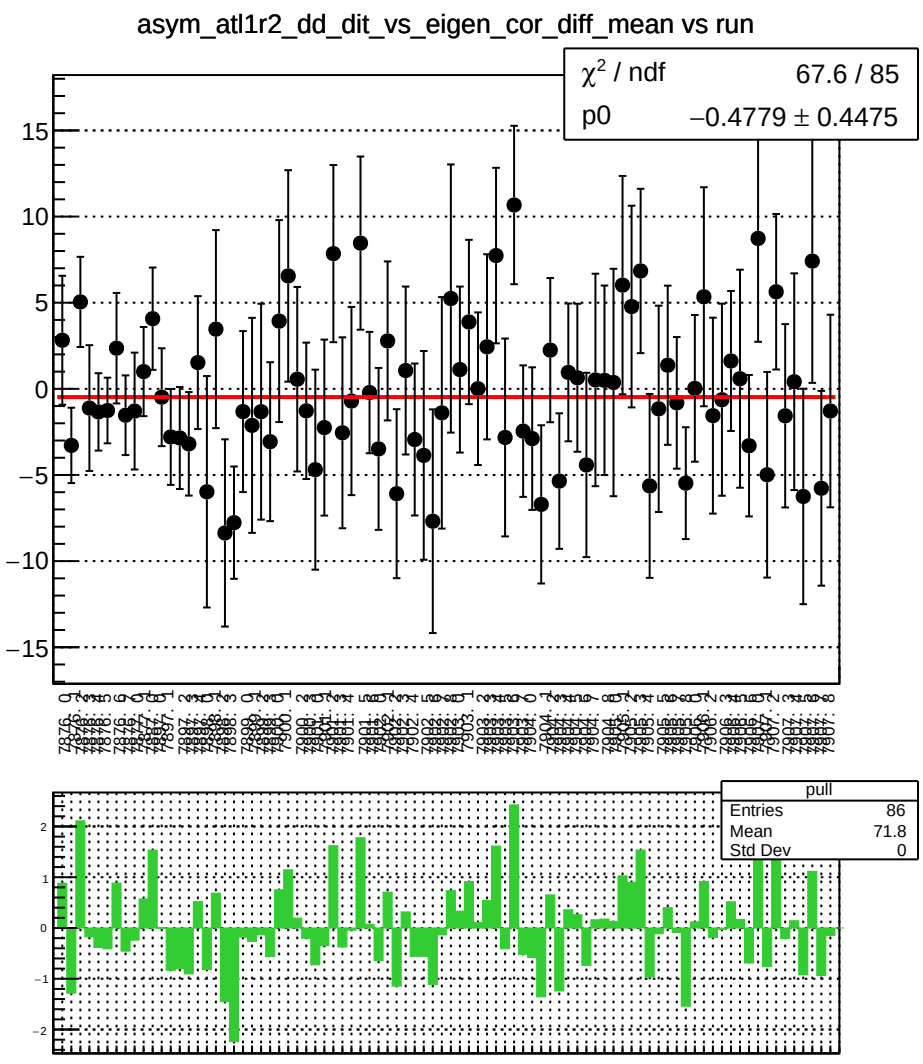

pull1D
Entries 86
Mean −0.02753
Std Dev 0.9734
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

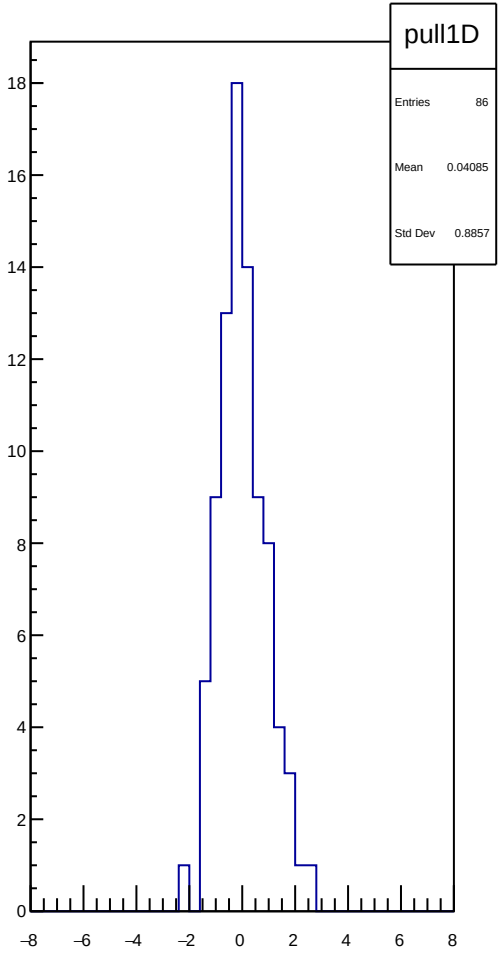

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.264e+06 / 85
p0 3.789e−10 ± 5.818e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

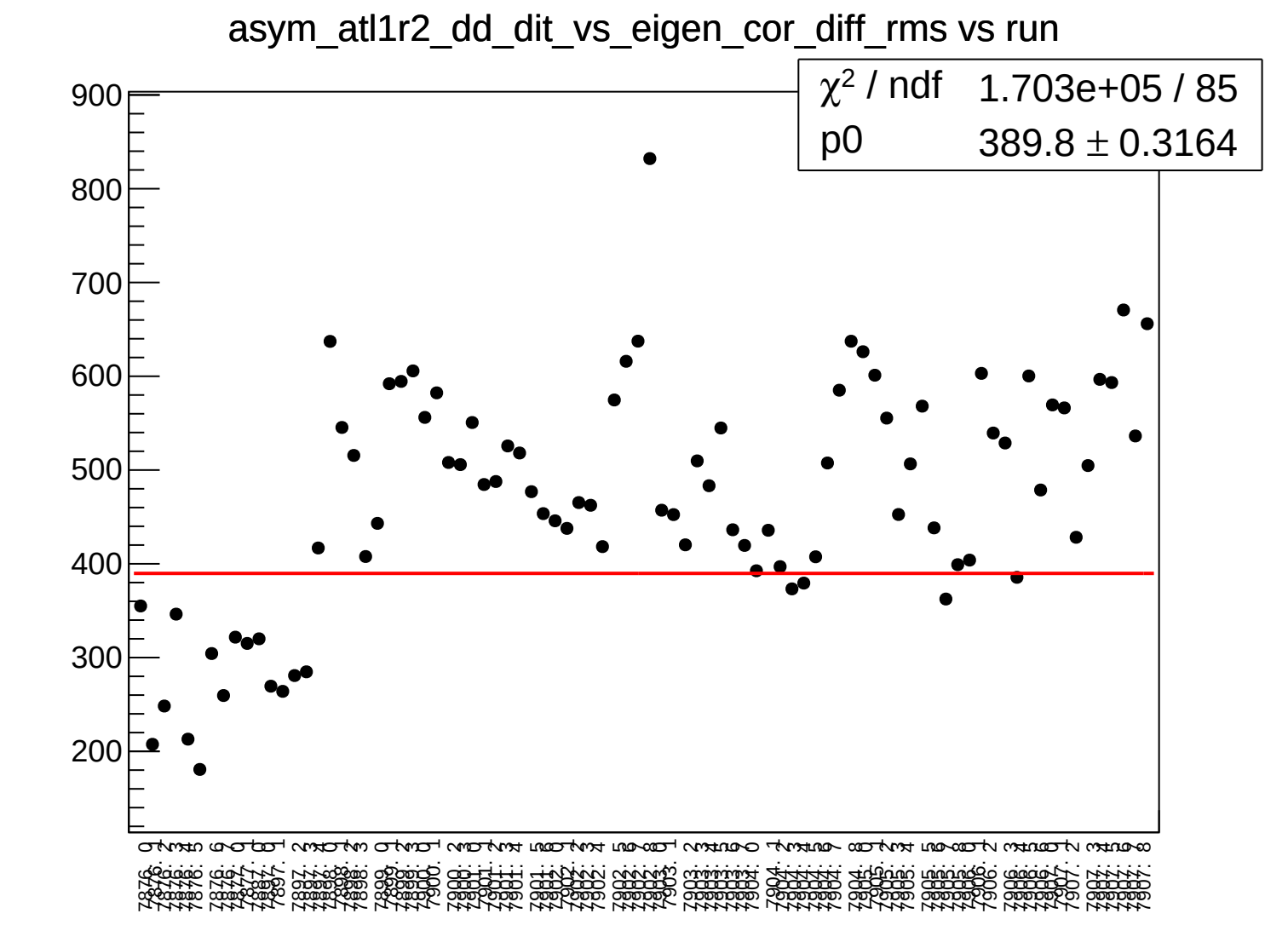

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.6 / 85
p0 −0.4779 ± 0.4475
pull
Entries 86
Mean 71.8
Std Dev 0

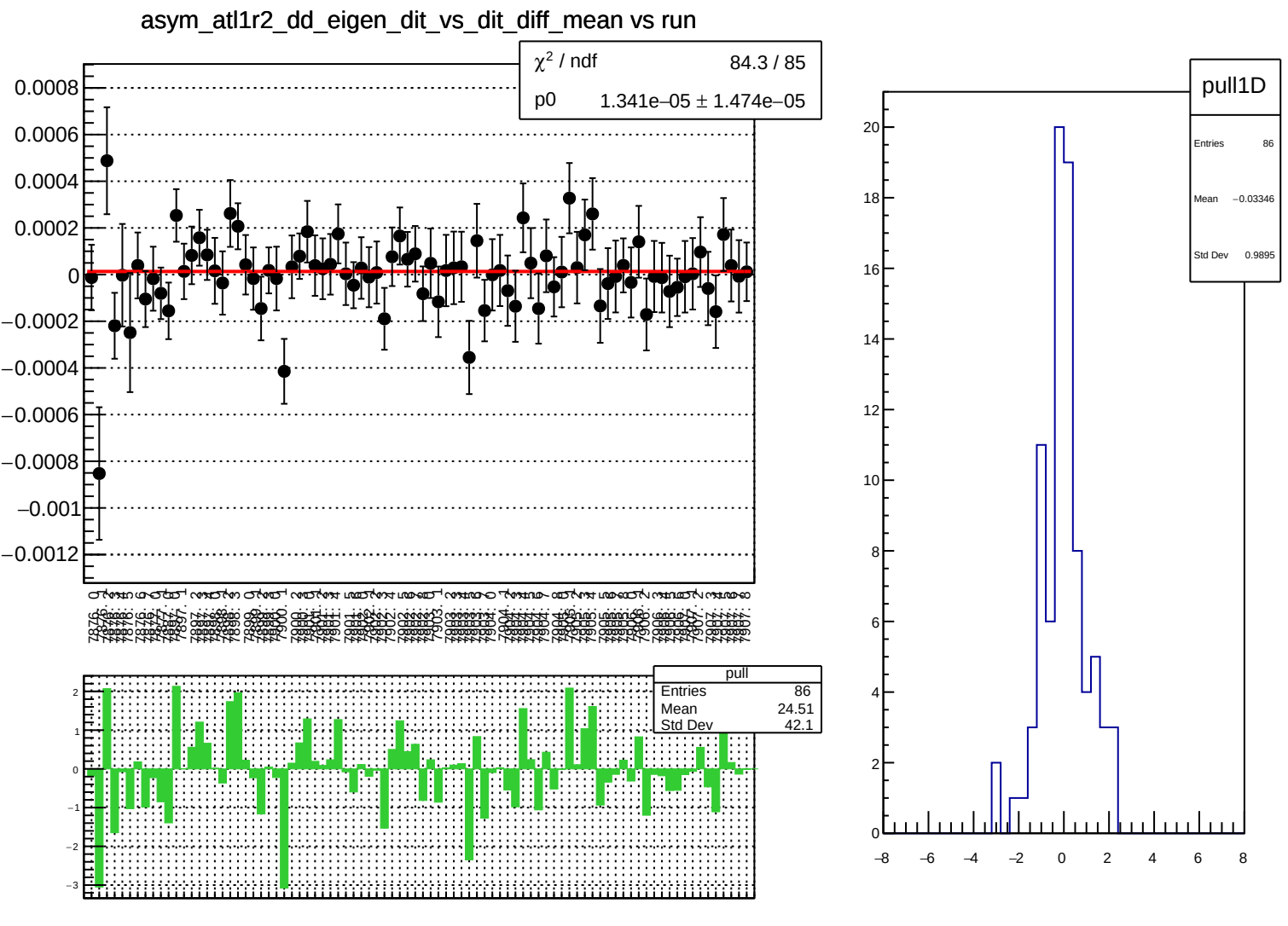

pull1D
Entries 86
Mean 0.04085
Std Dev 0.8857

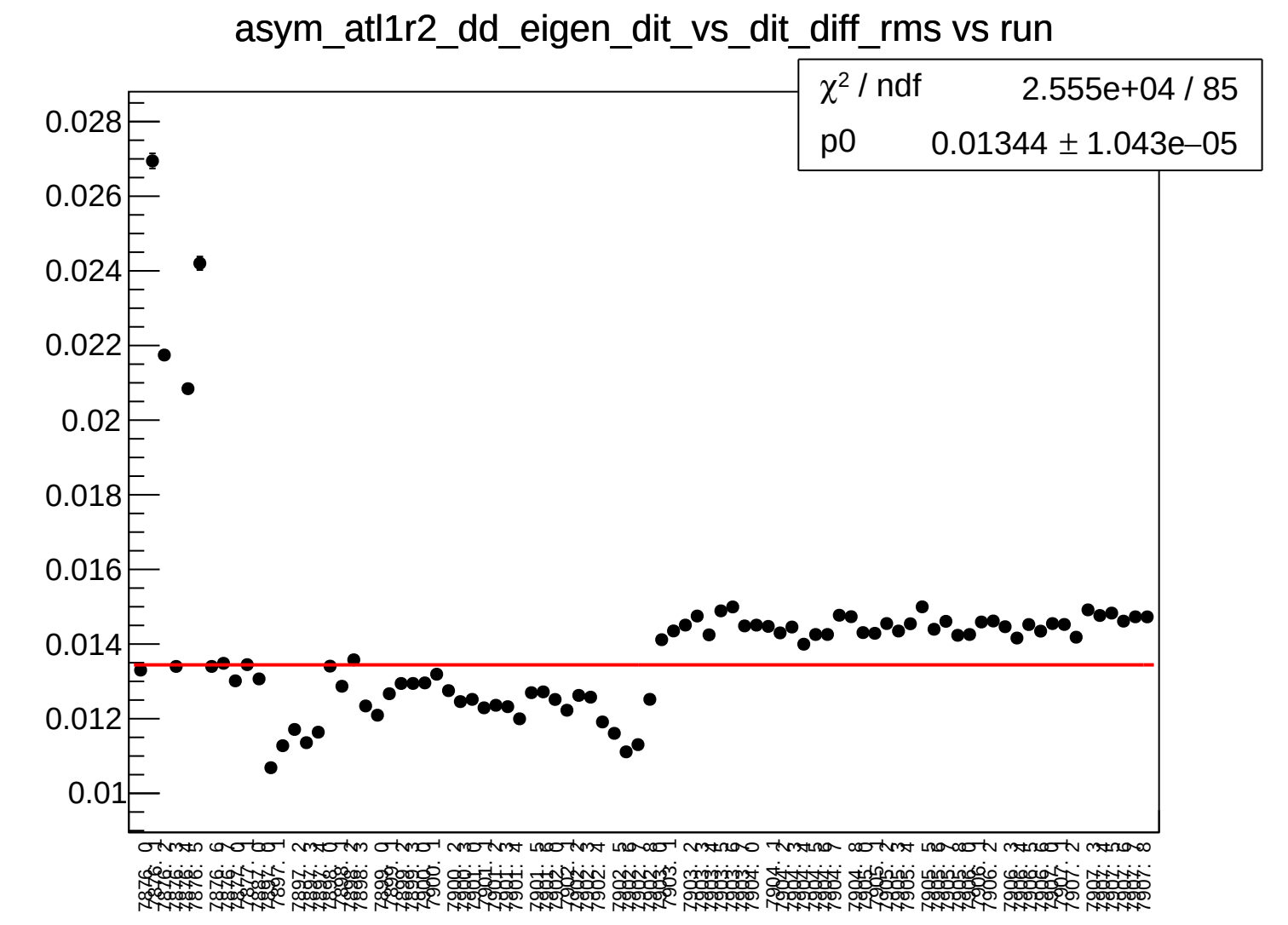

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.703e+05 / 85
p0 389.8 ± 0.3164
900
800
700
600
500
400
300
200

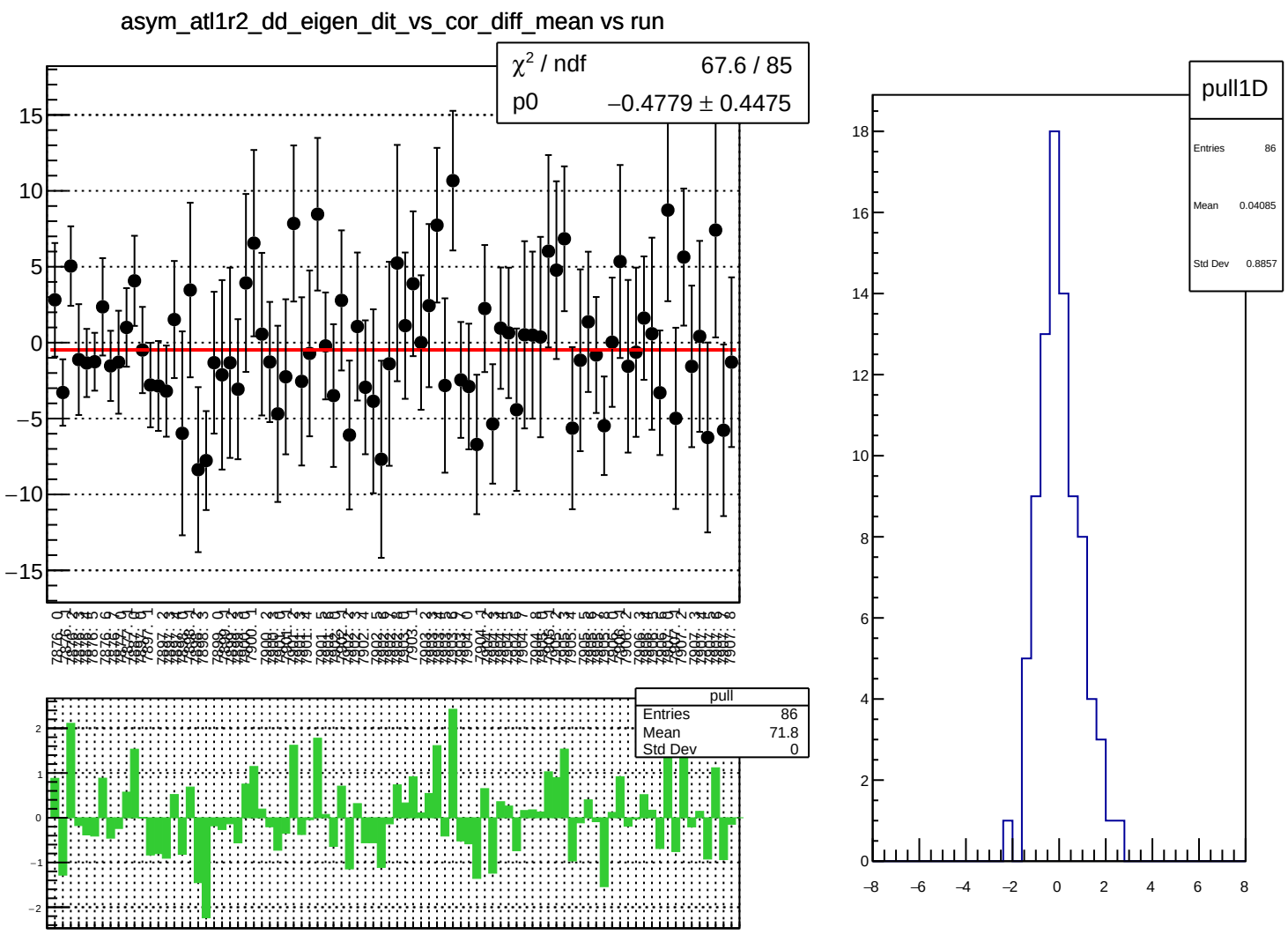

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.6 / 85
p0 −0.4779 ± 0.4475
pull
Entries 86
Mean 71.8
Std Dev 0

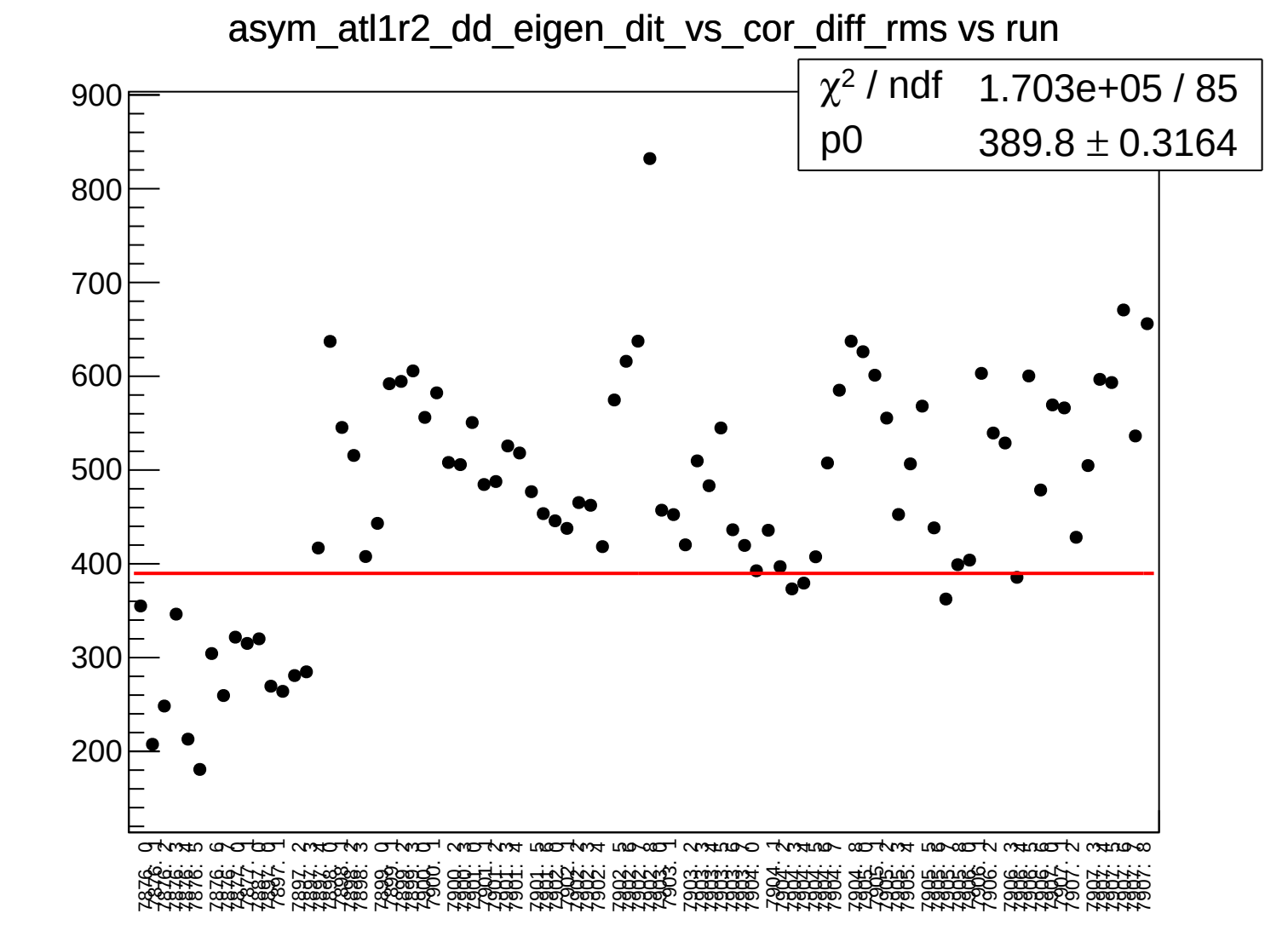

pull1D
Entries 86
Mean 0.04085
Std Dev 0.8857

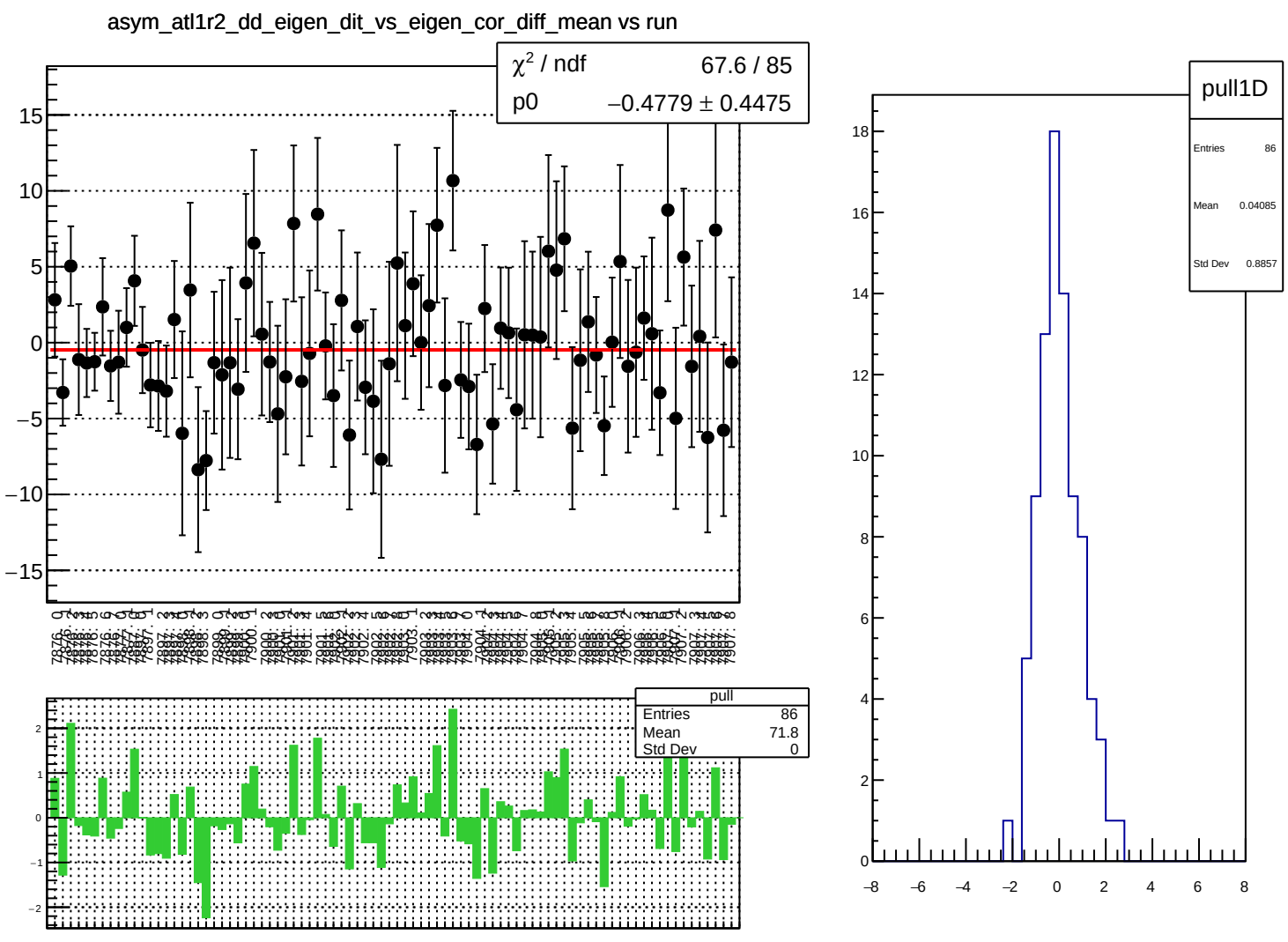

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.703e+05 / 85
p0 389.8 ± 0.3164
900
800
700
600
500
400
300
200

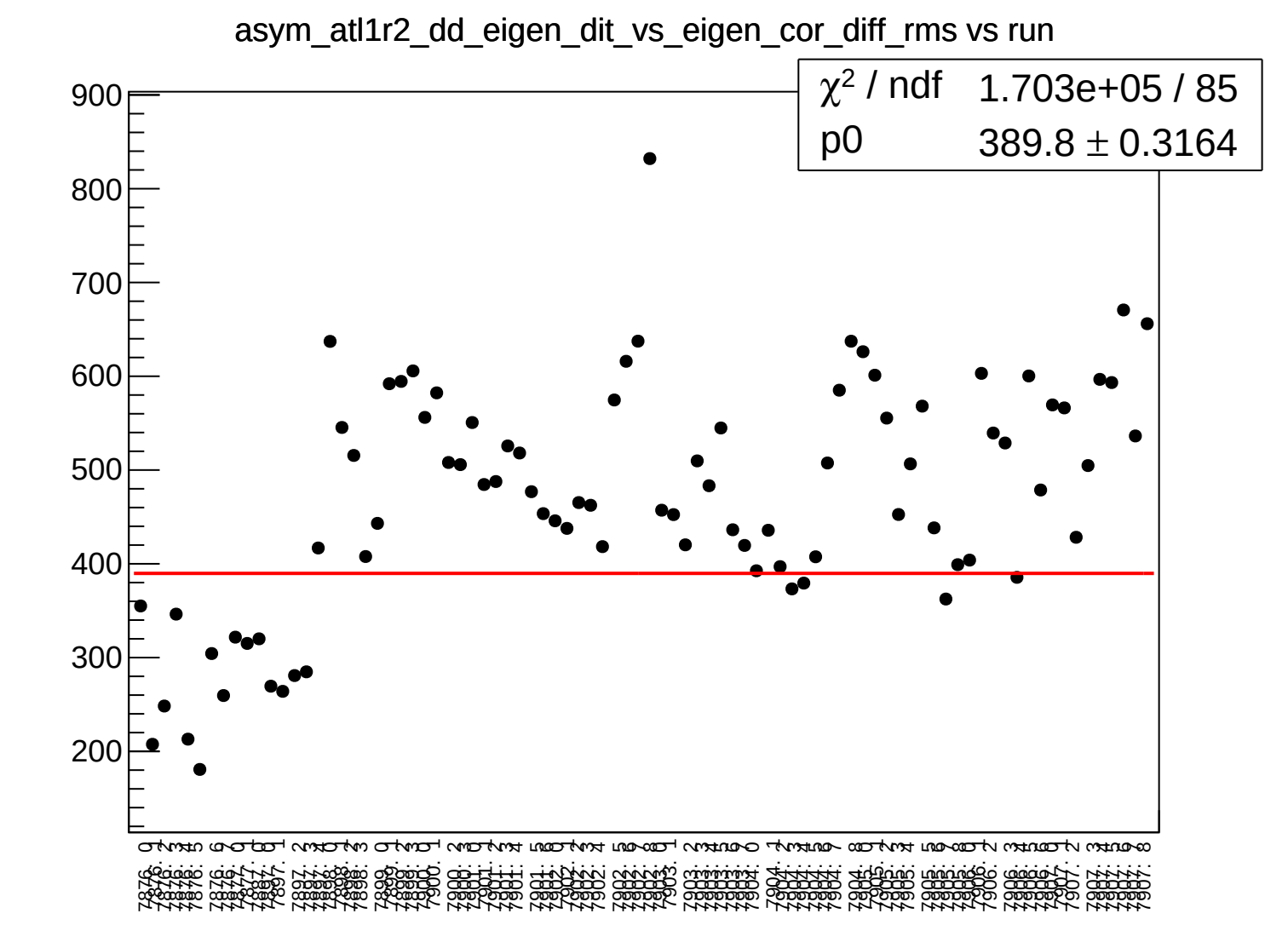

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.3 / 85
p0 1.341e−05 ± 1.474e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 86
Mean 24.51
Std Dev 42.1
pull1D
Entries 86
Mean −0.03346
Std Dev 0.9895

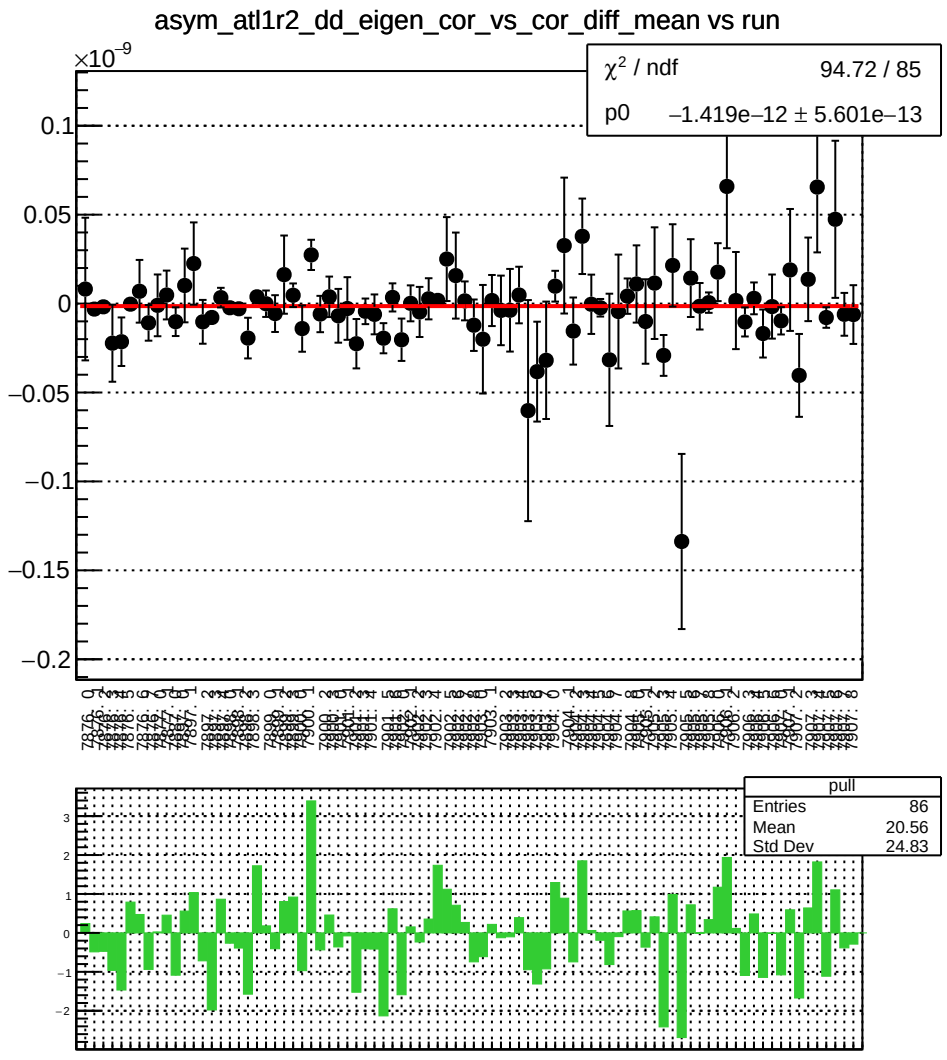

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.555e+04 / 85
p0 0.01344 ± 1.043e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

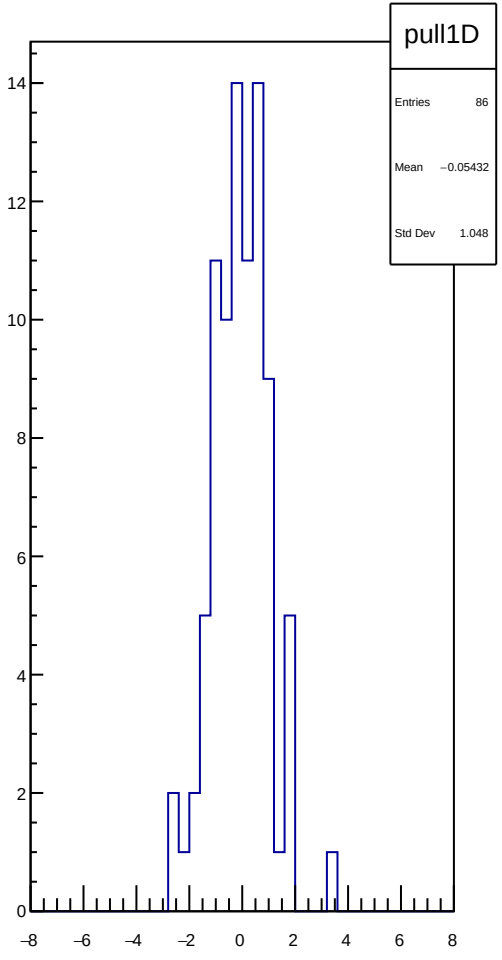

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.6 / 85
p0 −0.4779 ± 0.4475
pull
Entries 86
Mean 71.8
Std Dev 0
pull1D
Entries 86
Mean 0.04085
Std Dev 0.8857

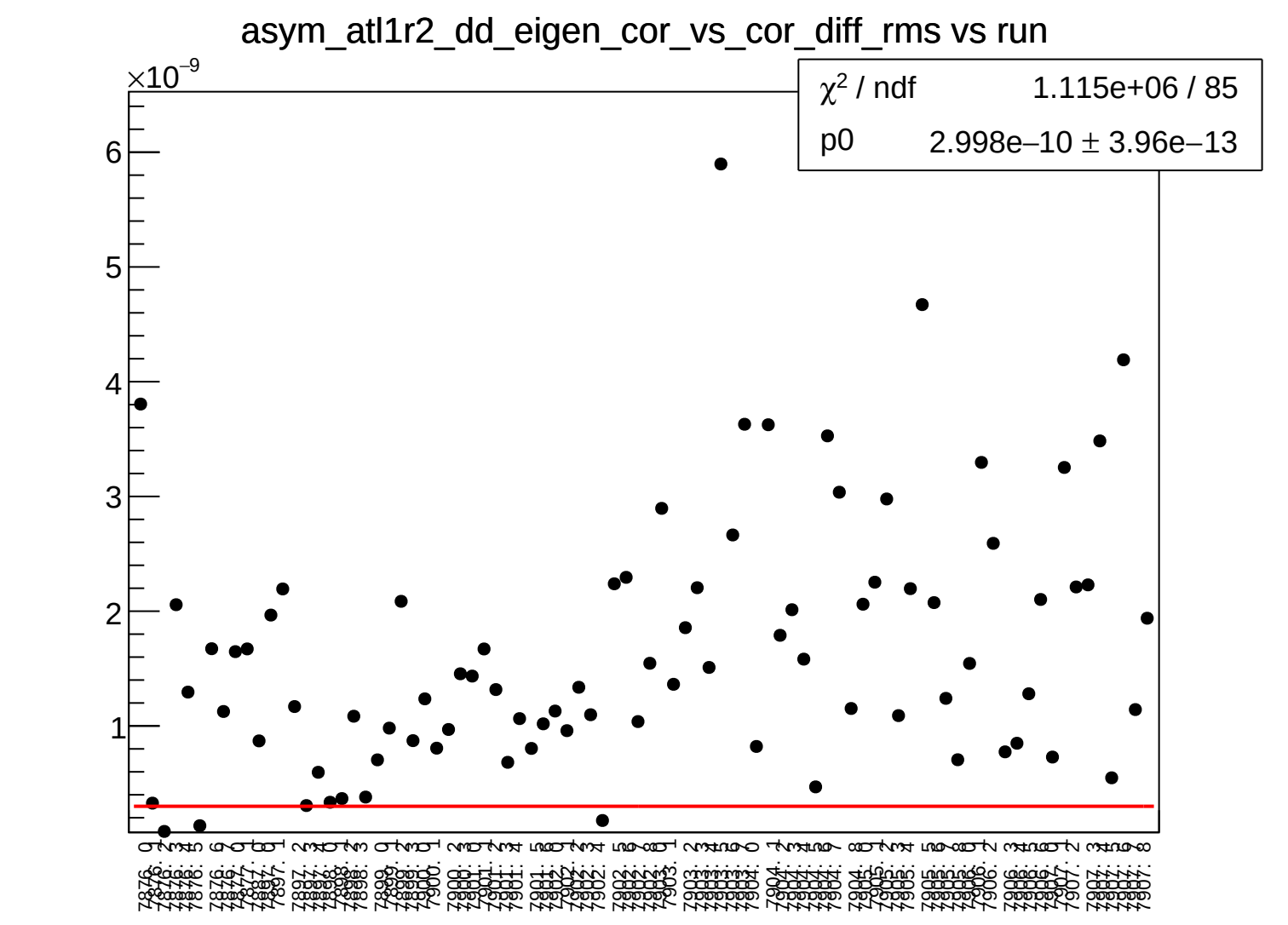

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.703e+05 / 85
p0 389.8 ± 0.3164
900
800
700
600
500
400
300
200

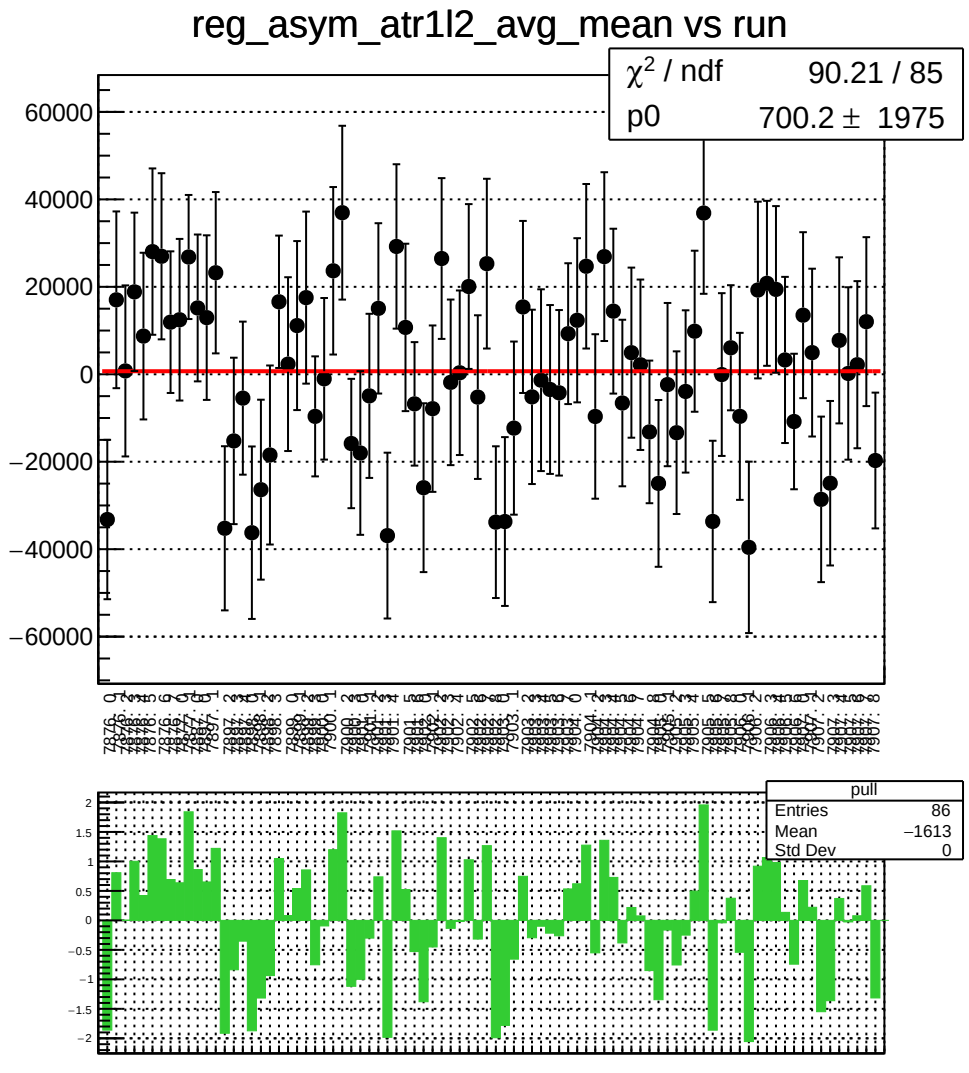

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.6 / 85
p0 −0.4779 ± 0.4475
pull
Entries 86
Mean 71.8
Std Dev 0
pull1D
Entries 86
Mean 0.04085
Std Dev 0.8857

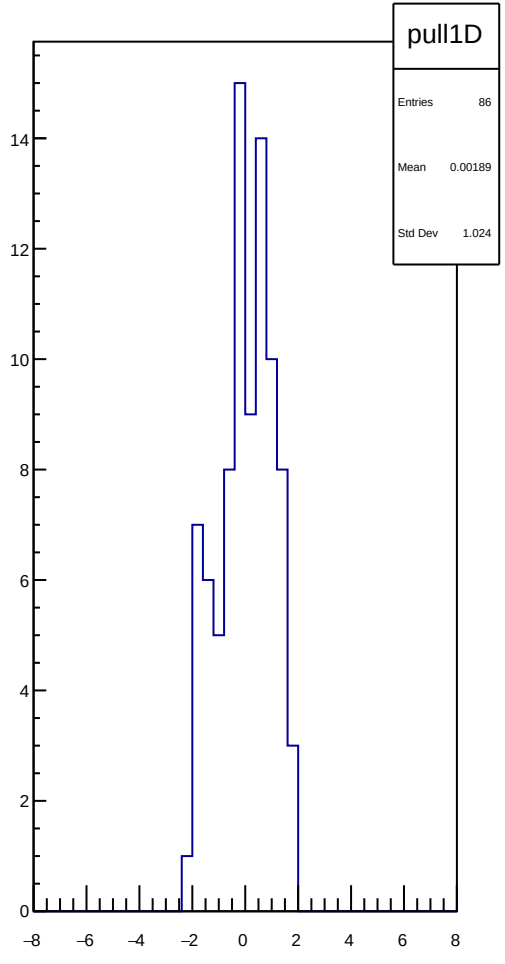

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.703e+05 / 85
p0 389.8 ± 0.3164
900
800
700
600
500
400
300
200

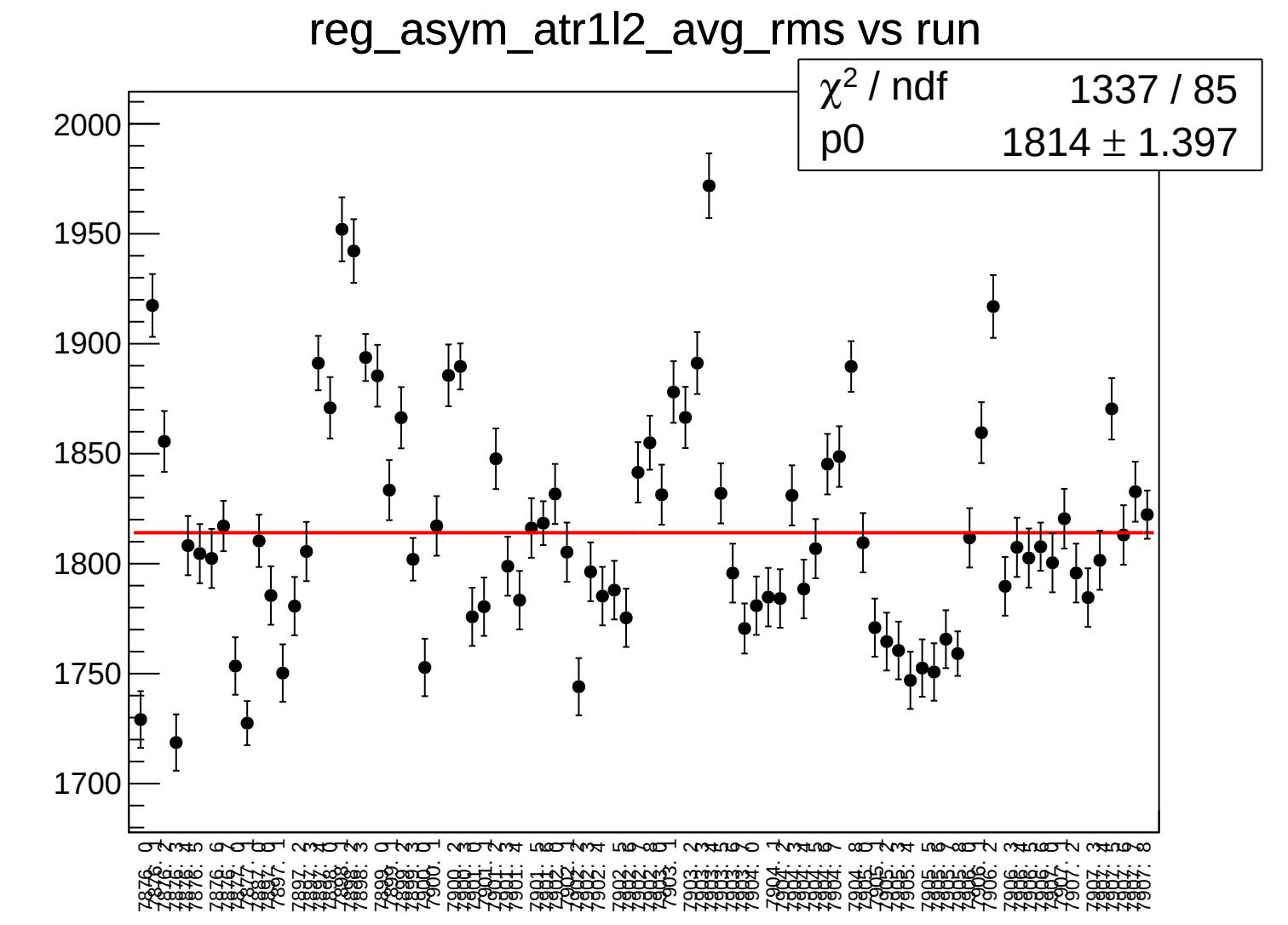

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 94.72 / 85
p0 −1.419e−12 ± 5.601e−13
pull
Entries 86
Mean 20.56
Std Dev 24.83

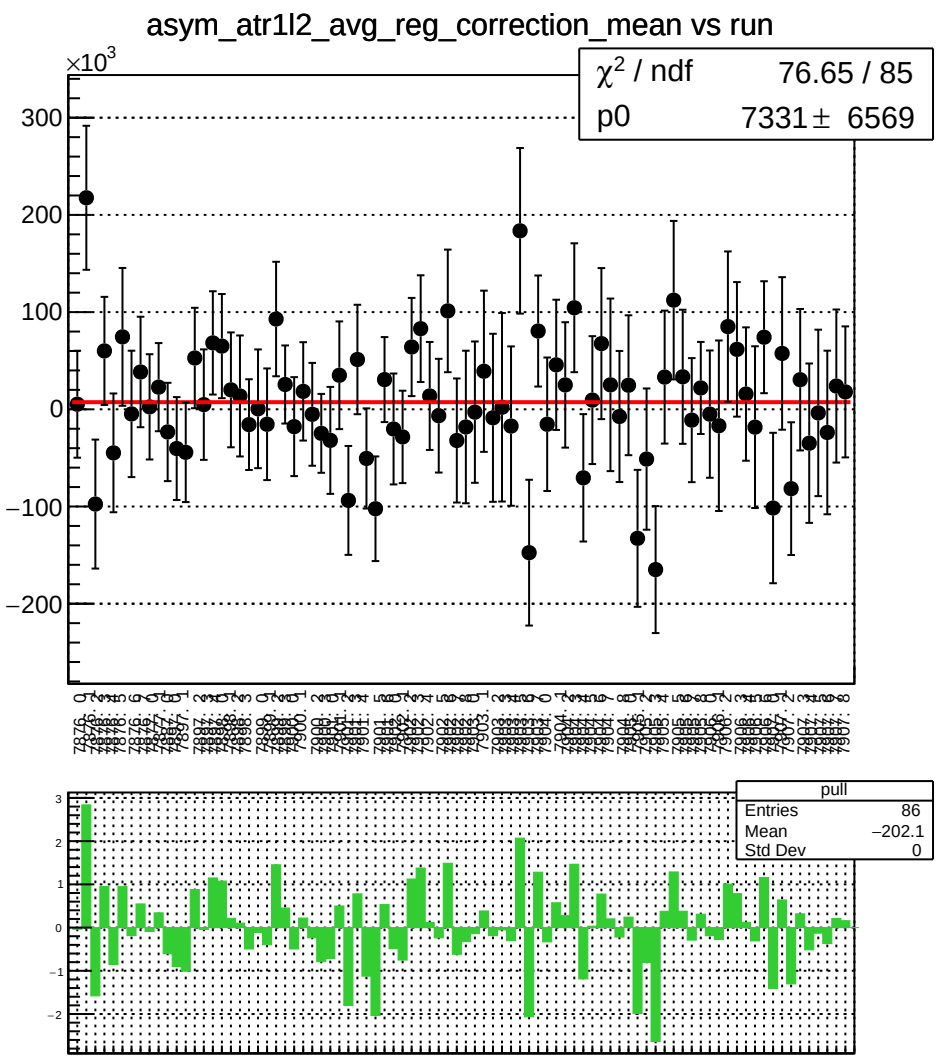

pull1D
Entries 86
Mean −0.05432
Std Dev 1.048

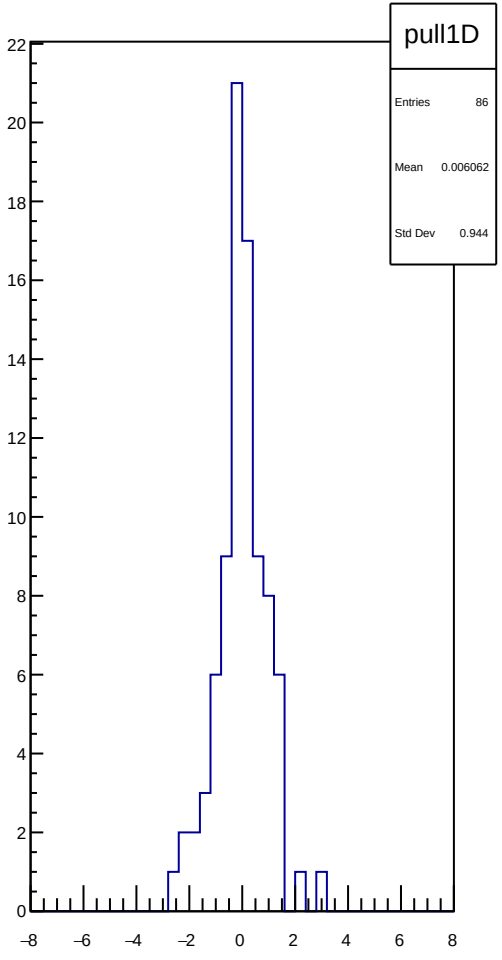

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.115e+06 / 85
p0 2.998e−10 ± 3.96e−13
6
5
4
3
2
1

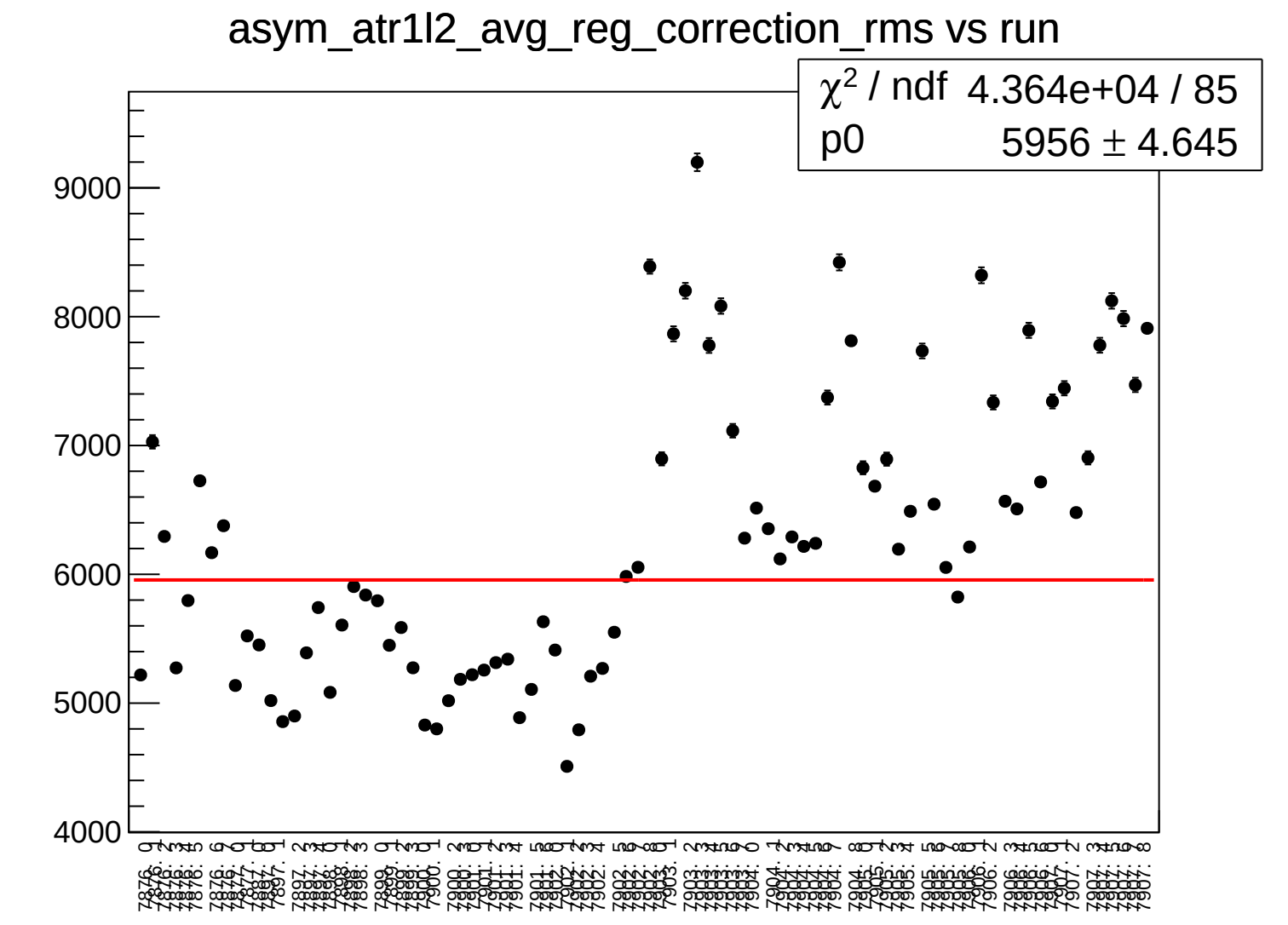

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 90.21 / 85
p0 700.2 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1613
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

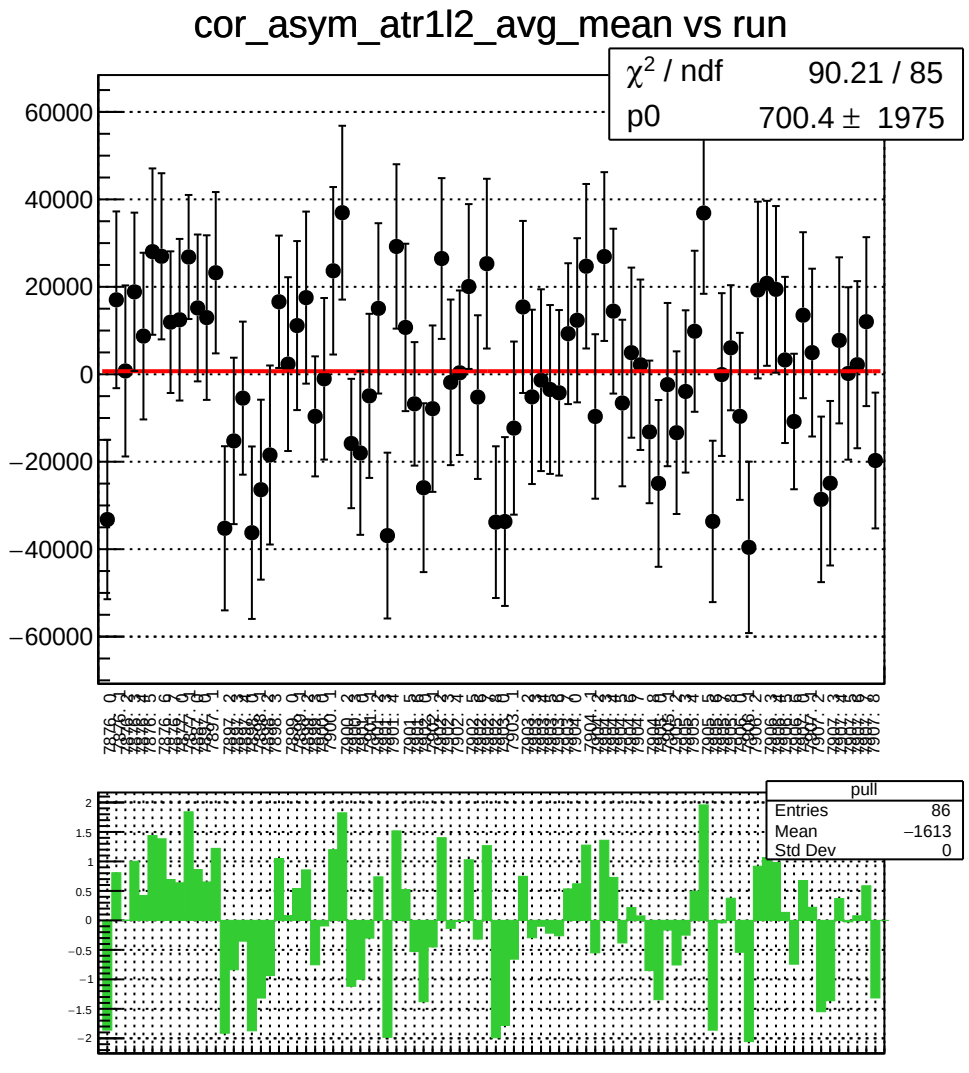

pull1D
Entries 86
Mean 0.00189
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

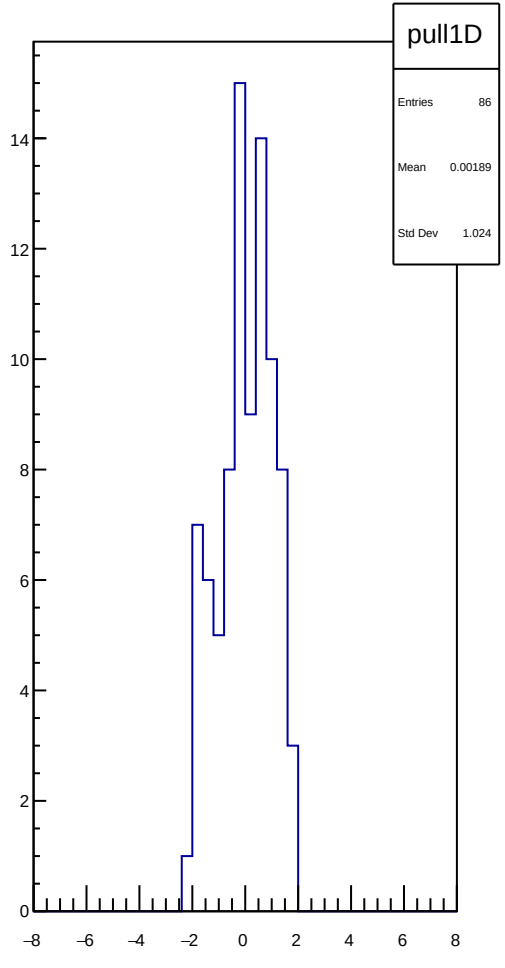

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1337 / 85
p0 1814 ± 1.397
2000
1950
1900
1850
1800
1750
1700

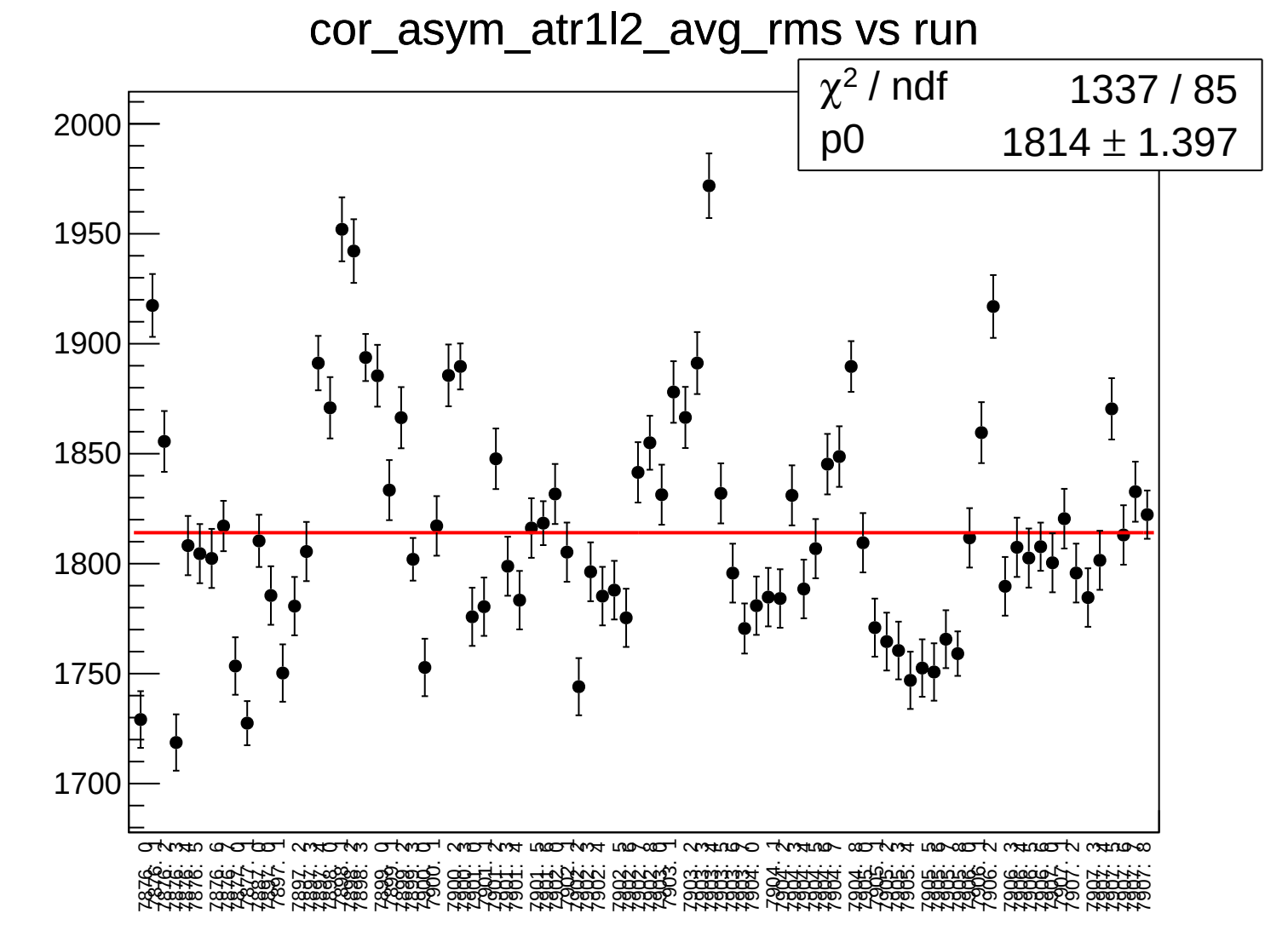

asym_atr1l2_avg_reg_correction_mean vs run
χ² / ndf 76.65 / 85
p0 7331 ± 6569
×10³
pull
Entries 86
Mean −202.1
Std Dev 0

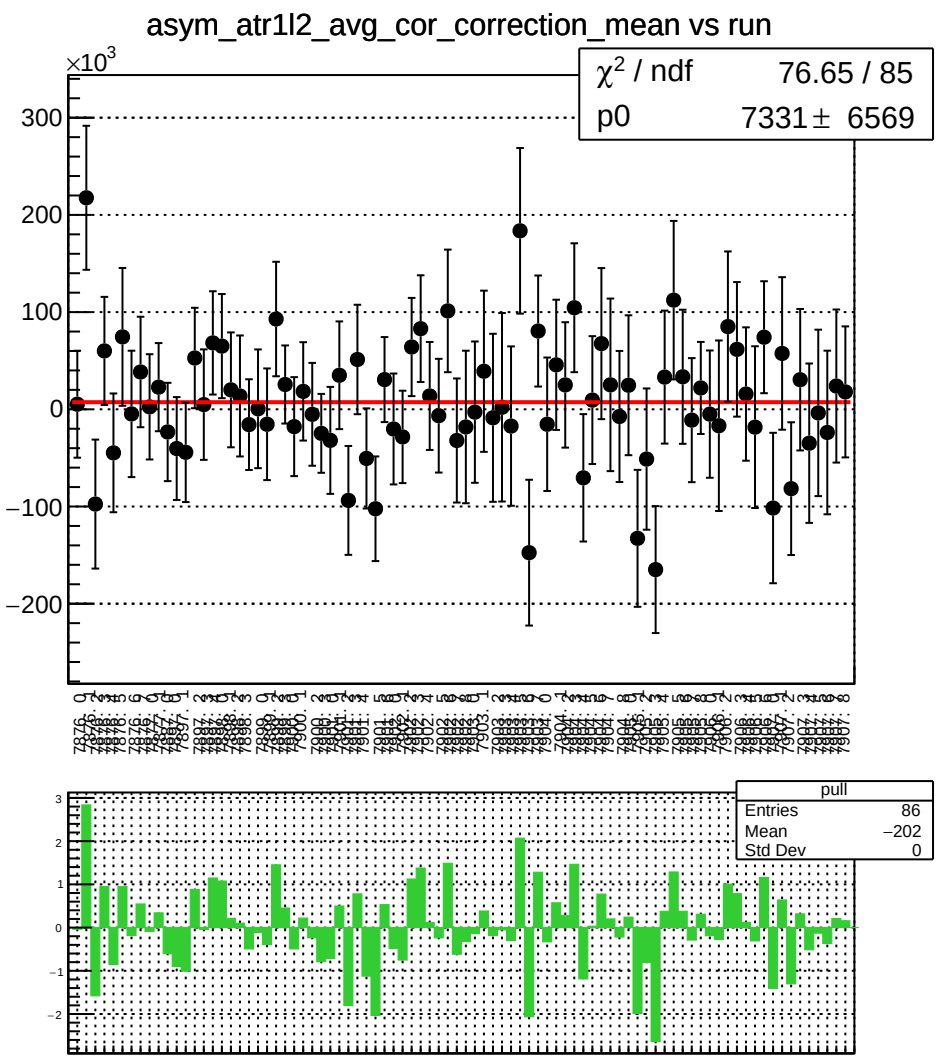

pull1D
Entries 86
Mean 0.006062
Std Dev 0.944

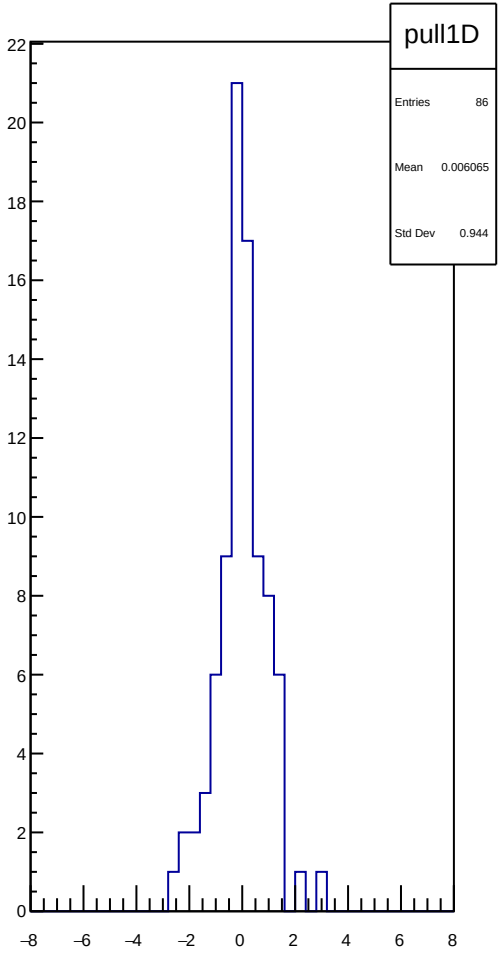

asym_atr1l2_avg_reg_correction_rms vs run
χ^2 / ndf 4.364e+04 / 85
p0 5956 ± 4.645
9000
8000
7000
6000
5000
4000

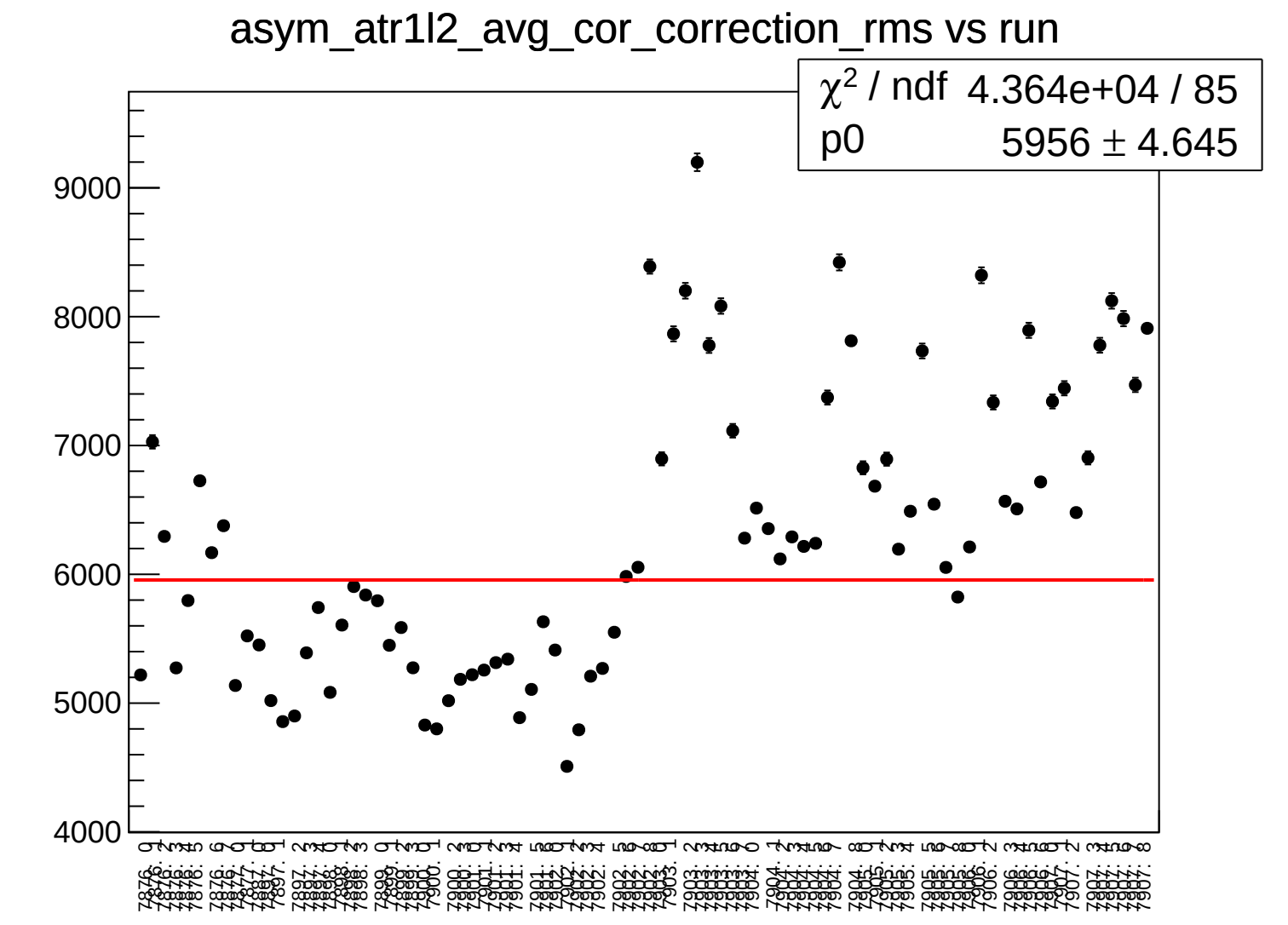

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 90.21 / 85
p0 700.4 ± 1975
pull
Entries 86
Mean −1613
Std Dev 0

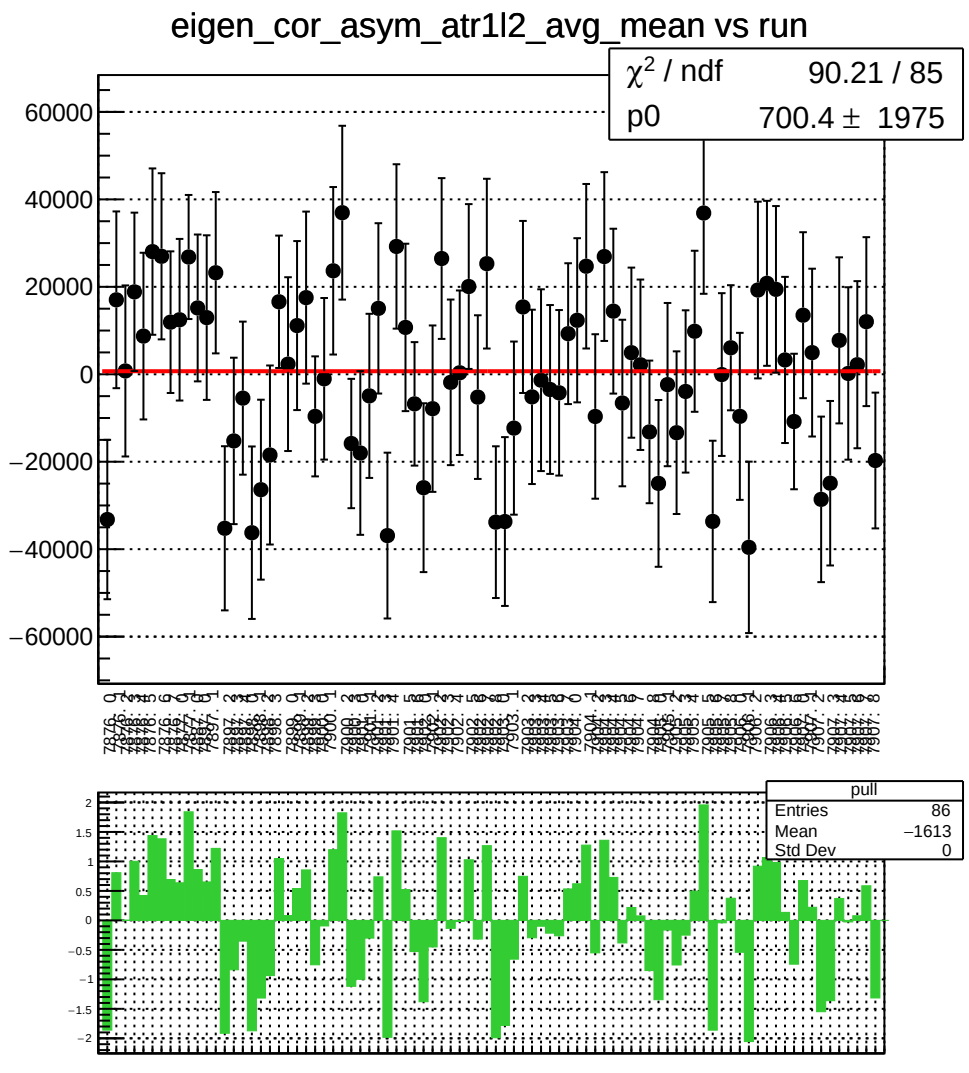

pull1D
Entries 86
Mean 0.00189
Std Dev 1.024

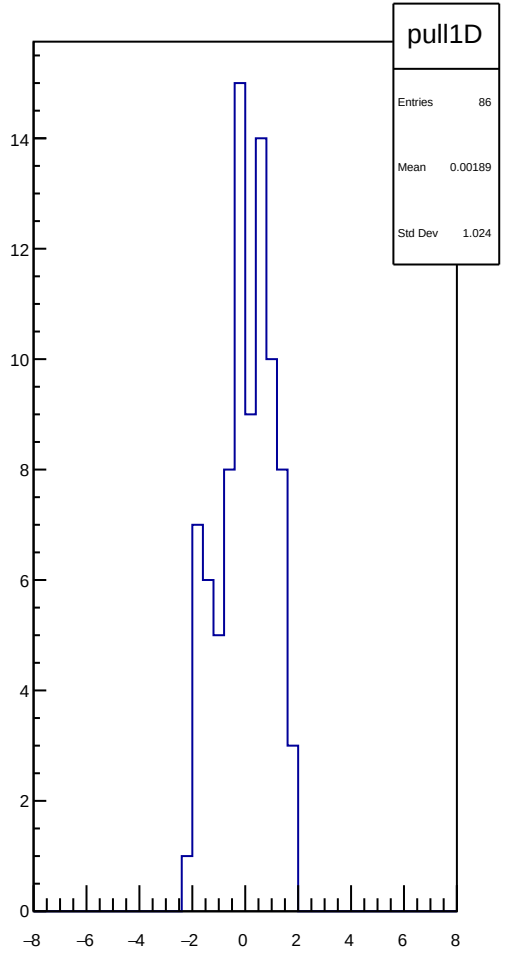

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 1337 / 85
p0 1814 ± 1.397
2000
1950
1900
1850
1800
1750
1700

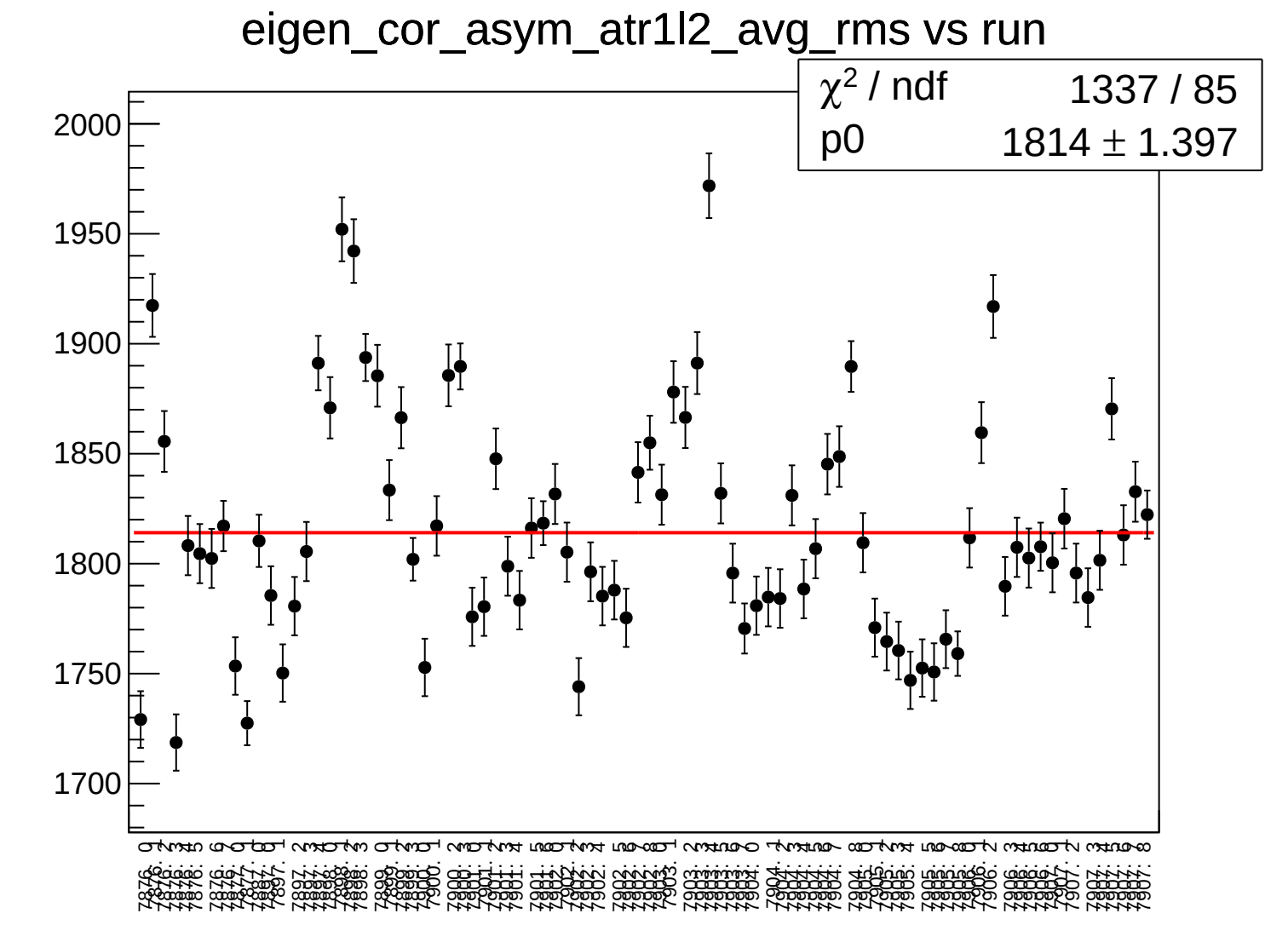

asym_atr1l2_avg_cor_correction_mean vs run
χ² / ndf 76.65 / 85
p0 7331 ± 6569
×10³
pull
Entries 86
Mean −202
Std Dev 0

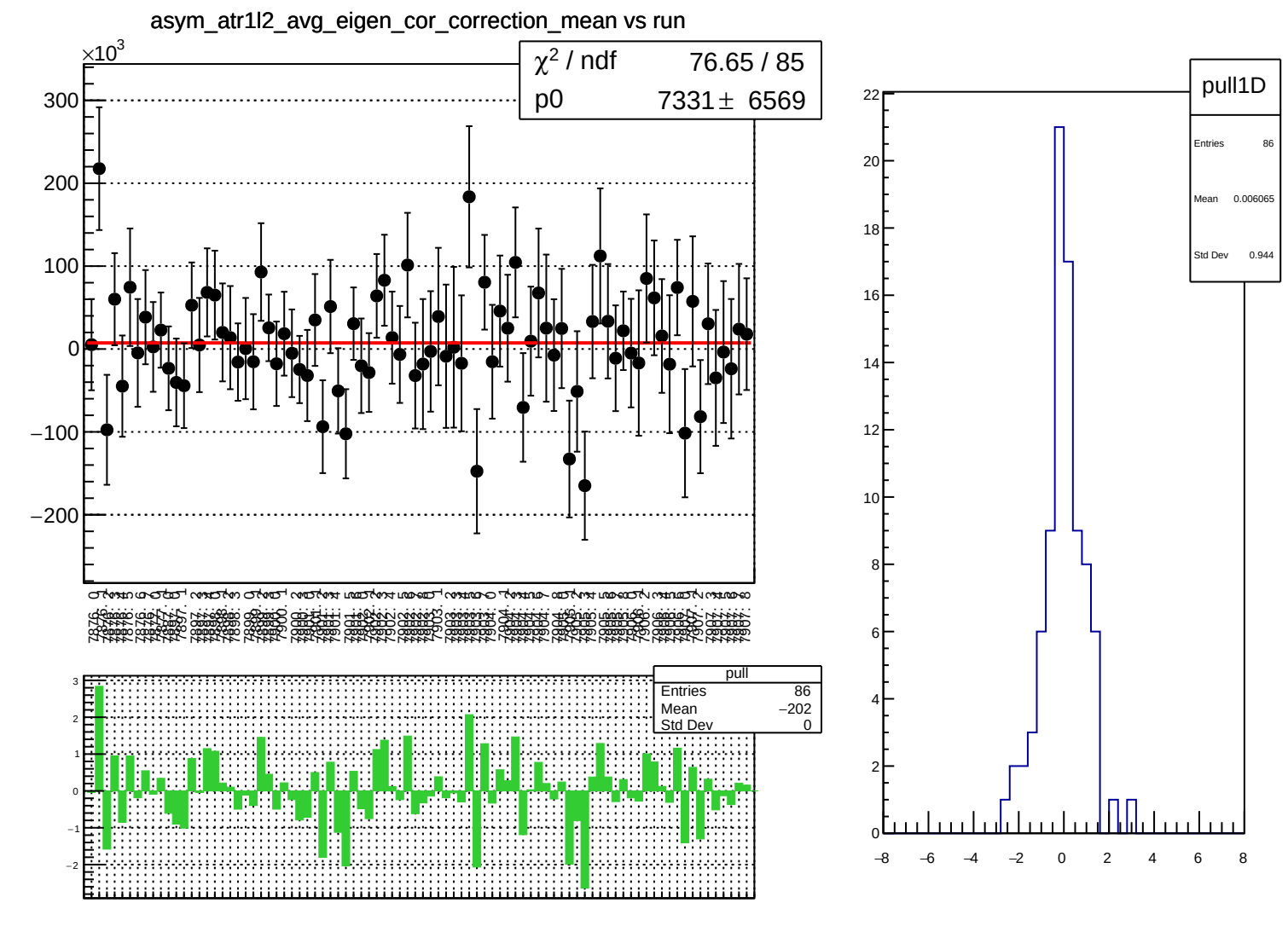

pull1D
Entries 86
Mean 0.006065
Std Dev 0.944

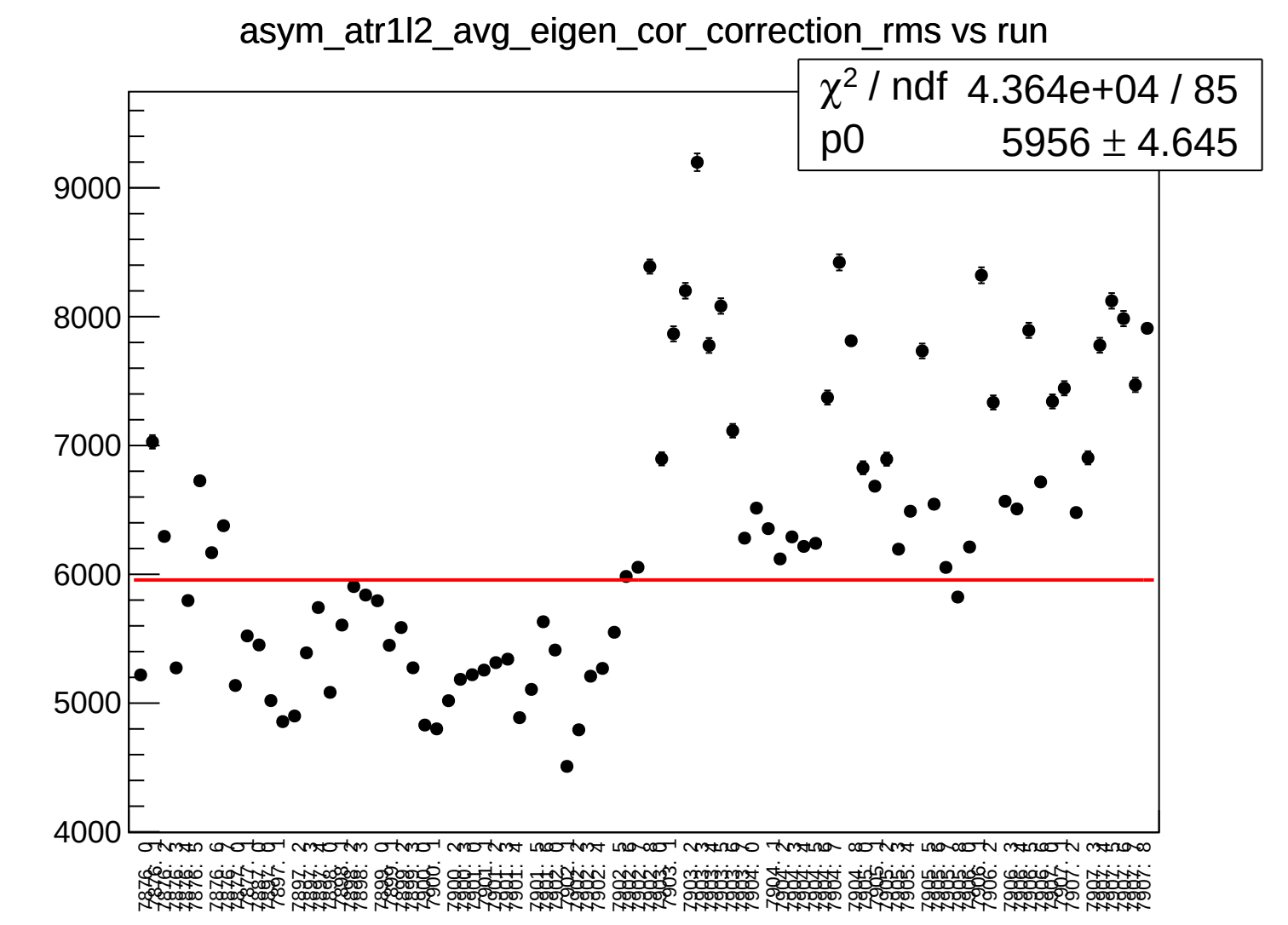

asym_atr1l2_avg_cor_correction_rms vs run
χ^2 / ndf 4.364e+04 / 85
p0 5956 ± 4.645
9000
8000
7000
6000
5000
4000

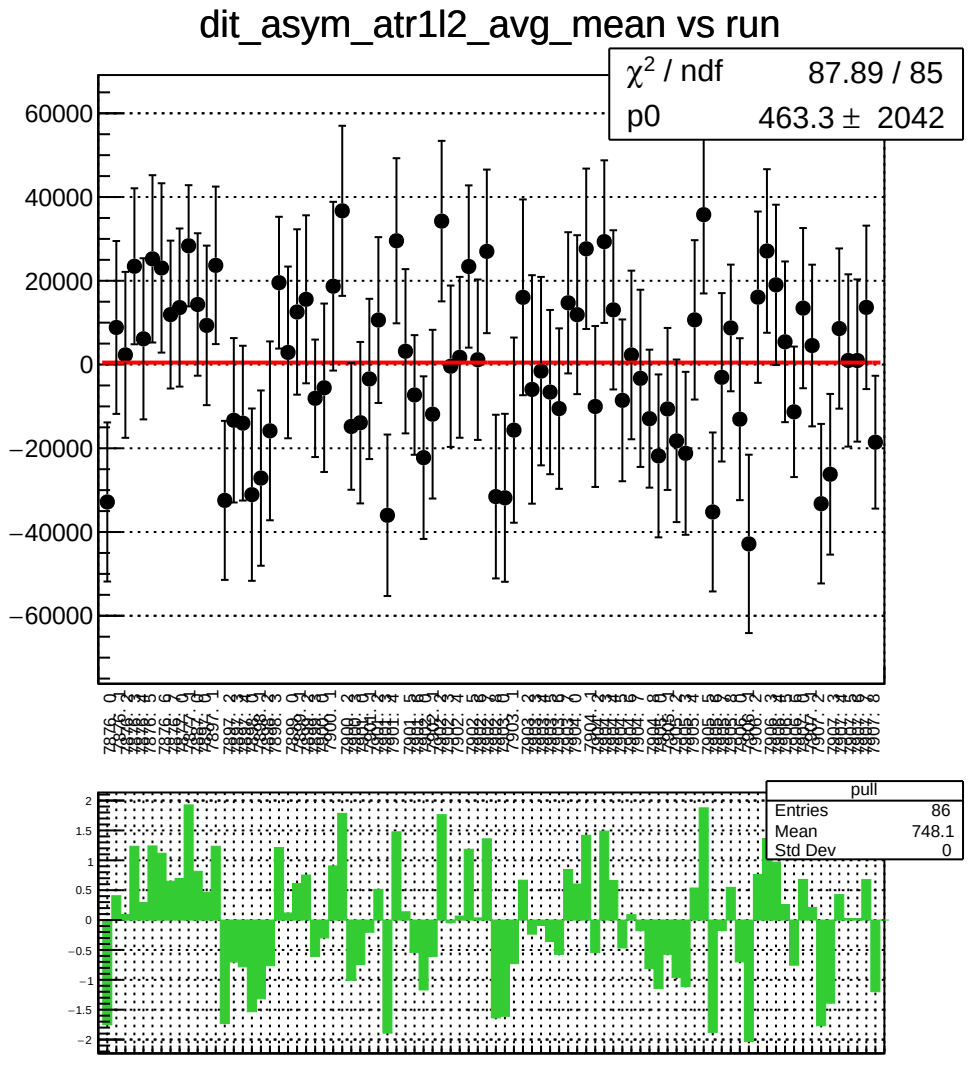

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 90.21 / 85
p0 700.4 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1613
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

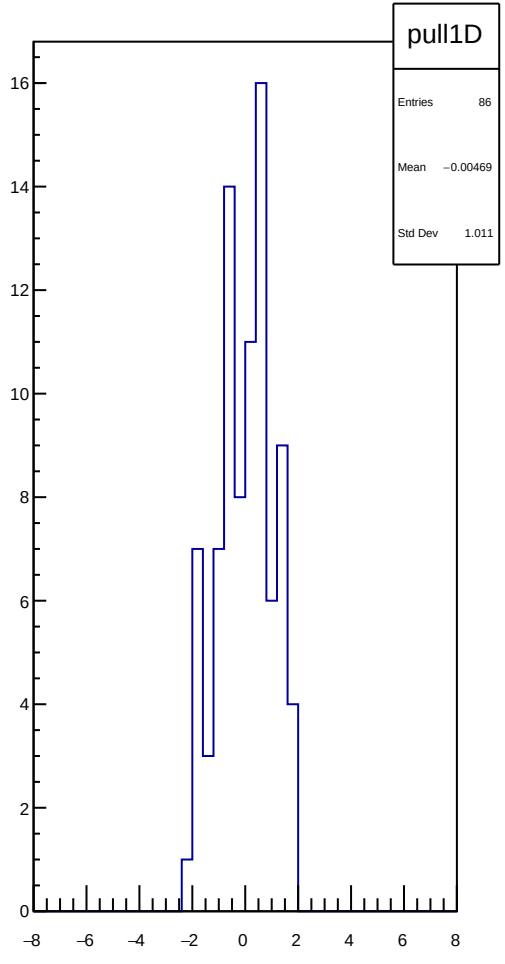

pull1D
Entries 86
Mean 0.00189
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

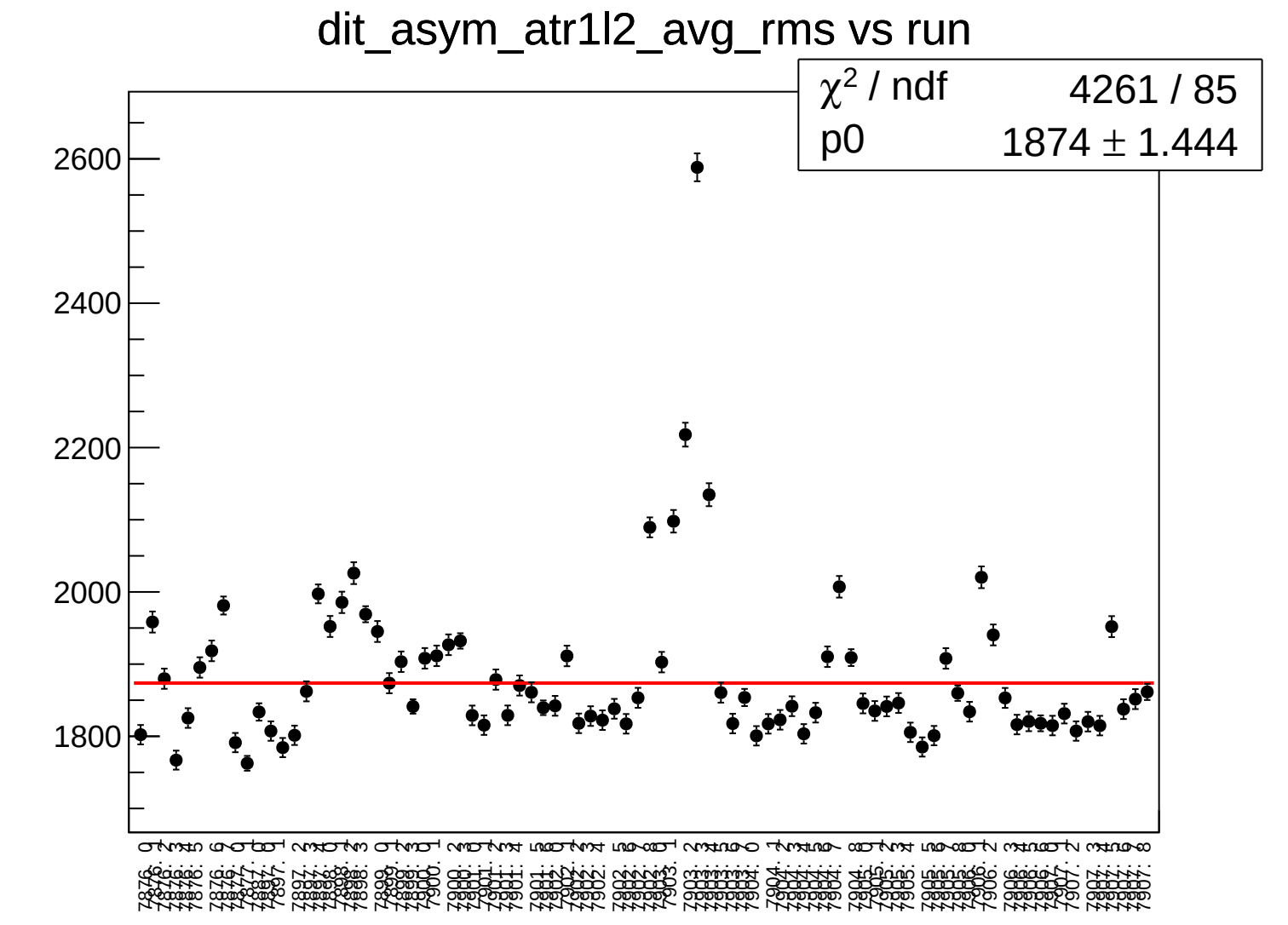

eigen_cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 1337 / 85
p0 1814 ± 1.397
2000
1950
1900
1850
1800
1750
1700

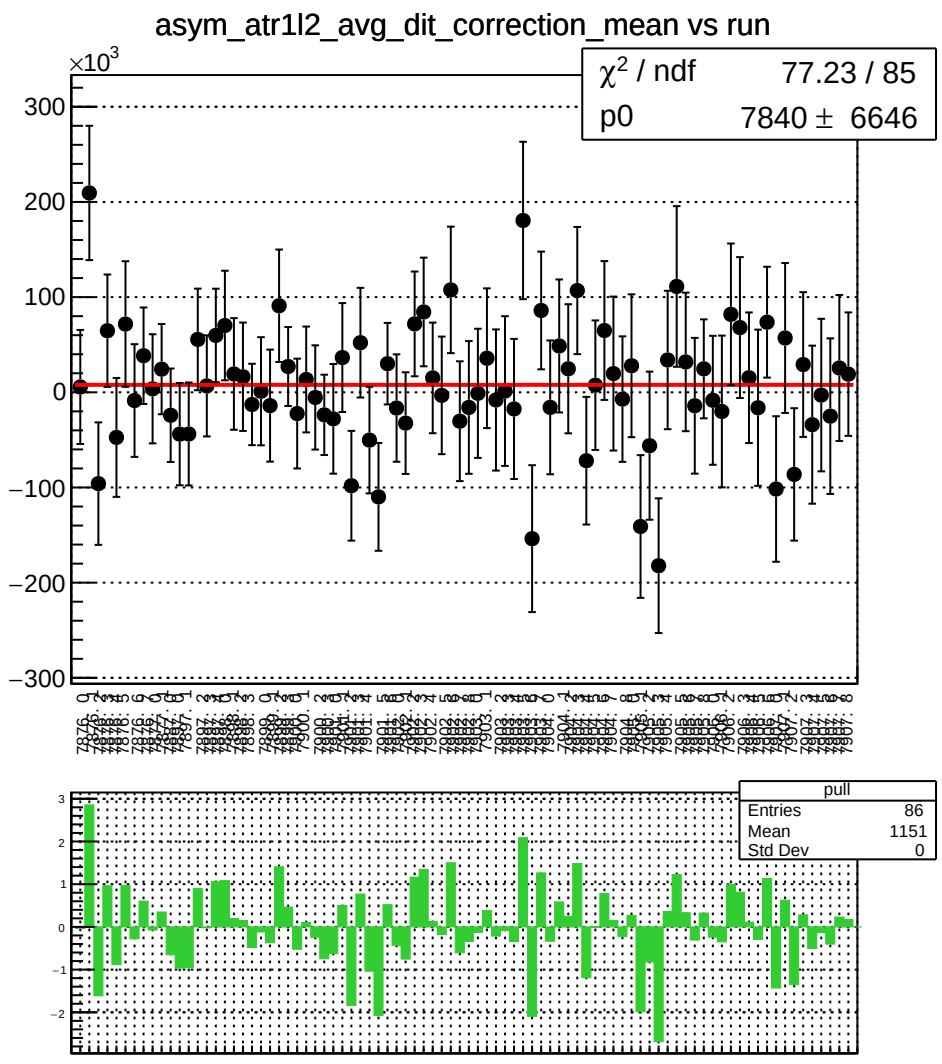

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.65 / 85
p0 7331 ± 6569
pull
Entries 86
Mean −202
Std Dev 0
pull1D
Entries 86
Mean 0.006065
Std Dev 0.944

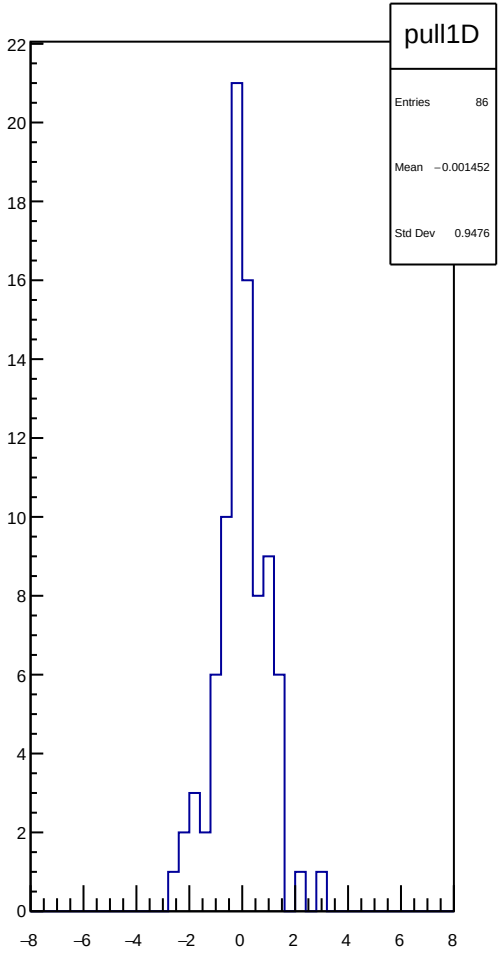

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.364e+04 / 85
p0 5956 ± 4.645
9000
8000
7000
6000
5000
4000

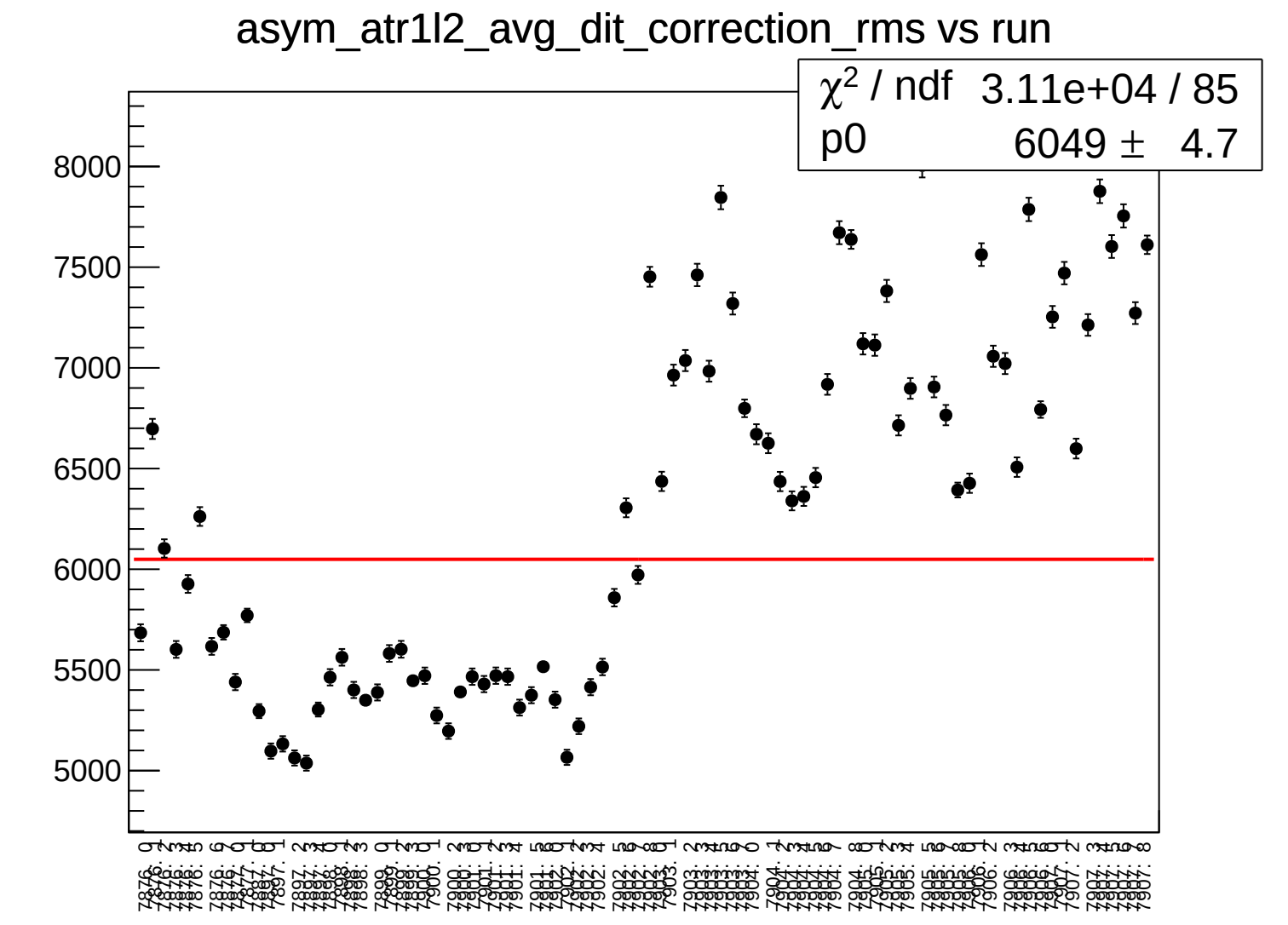

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 87.89 / 85
p0 463.3 ± 2042
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 748.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

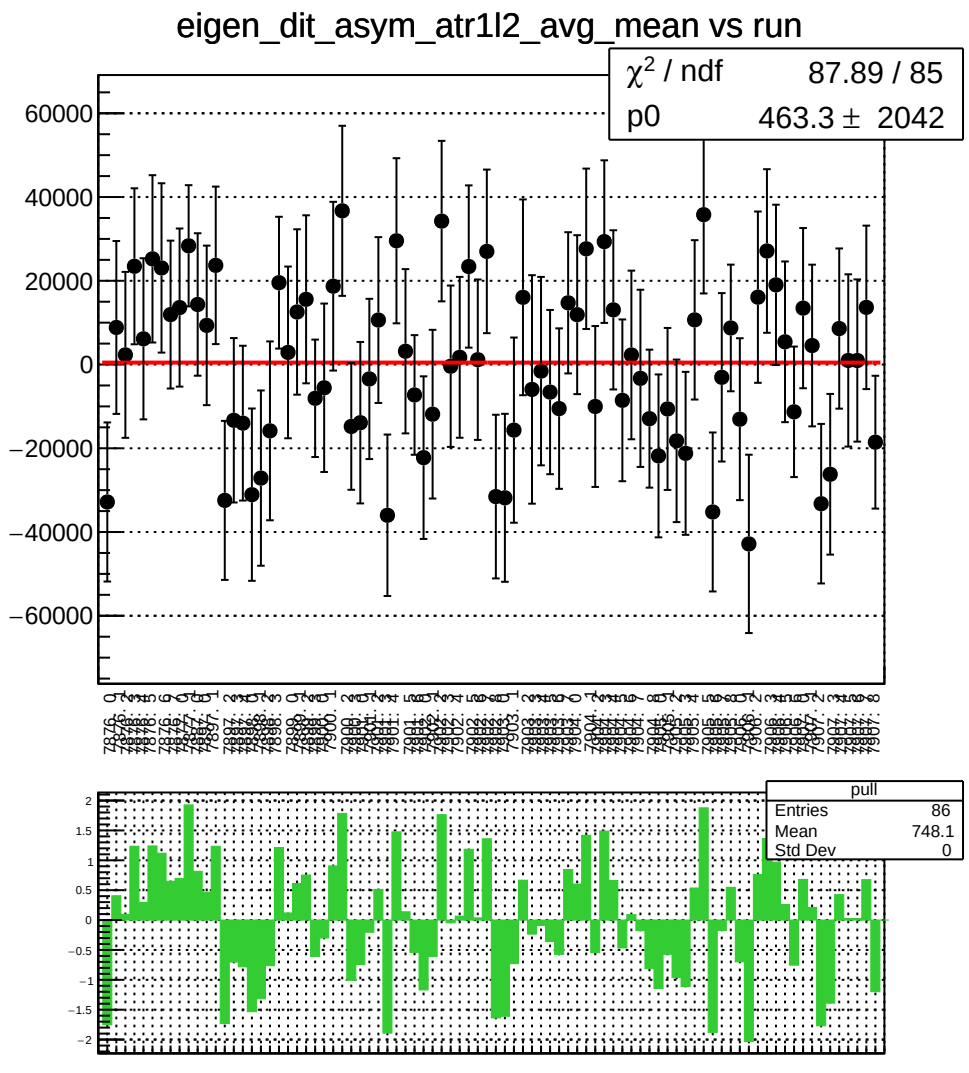

pull1D
Entries 86
Mean −0.00469
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

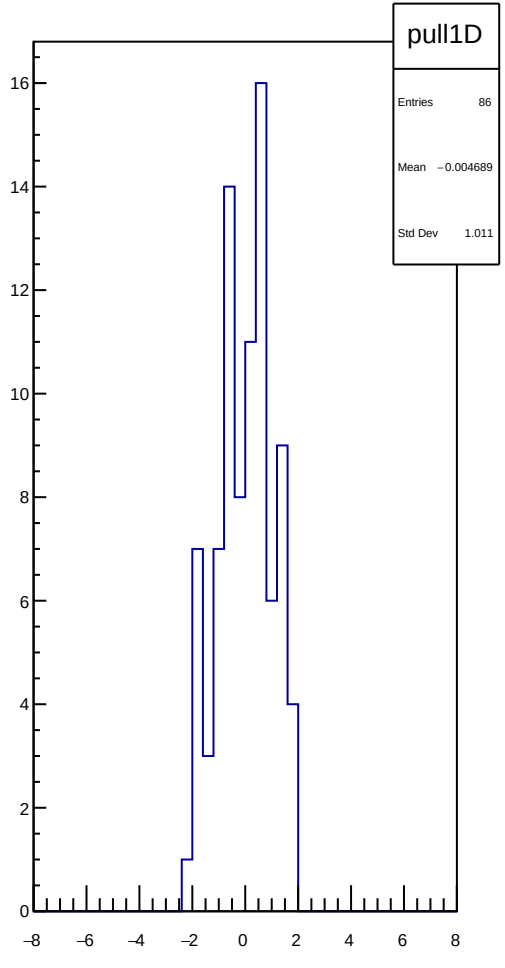

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 4261 / 85
p0 1874 ± 1.444
2600
2400
2200
2000
1800

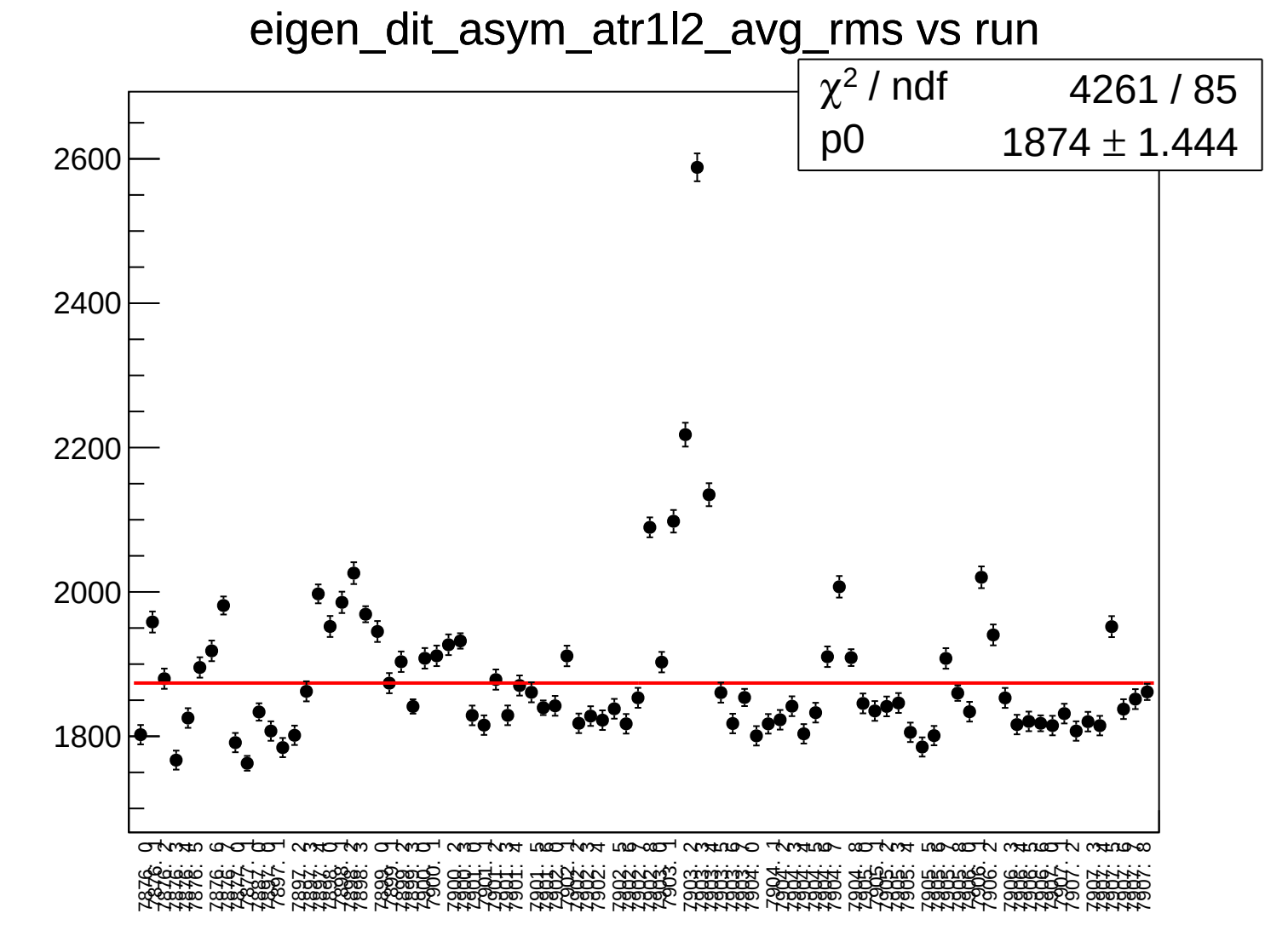

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.23 / 85
p0 7840 ± 6646
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean 1151
Std Dev 0
3
2
1
0
−1
−2

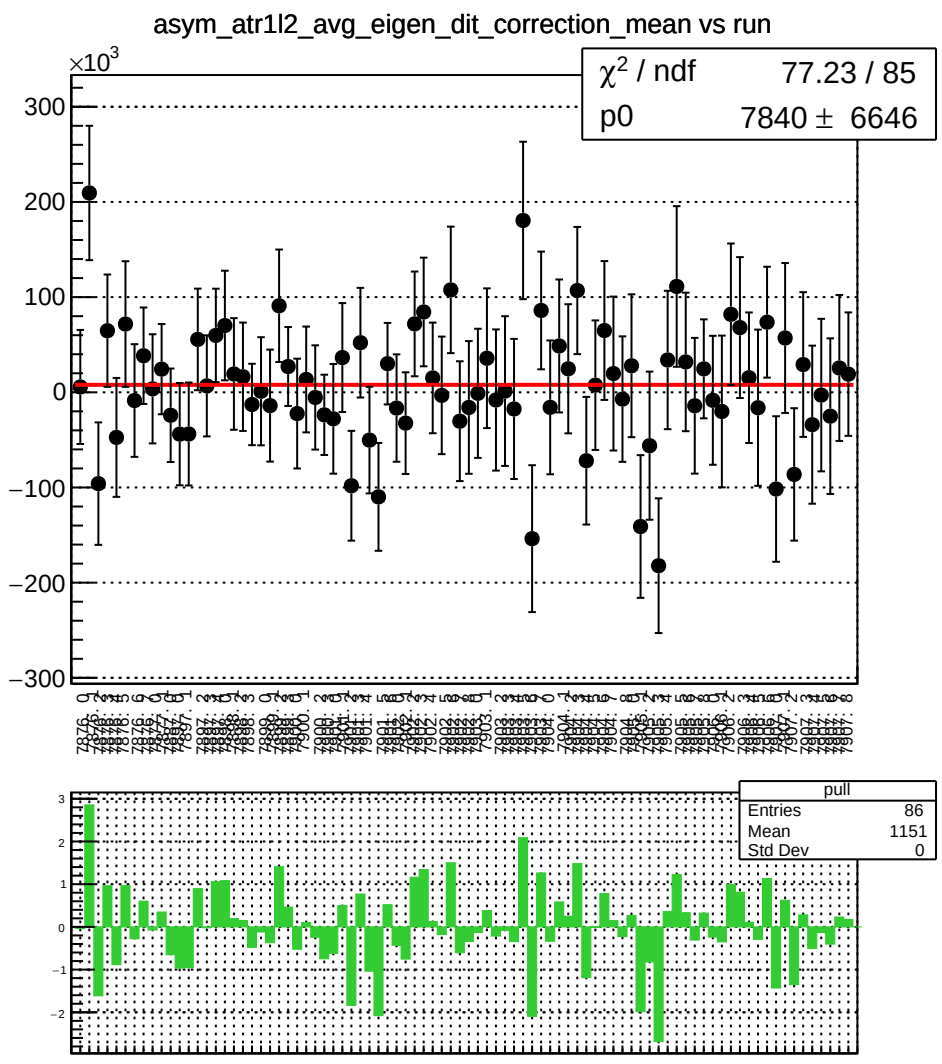

pull1D
Entries 86
Mean −0.001452
Std Dev 0.9476
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

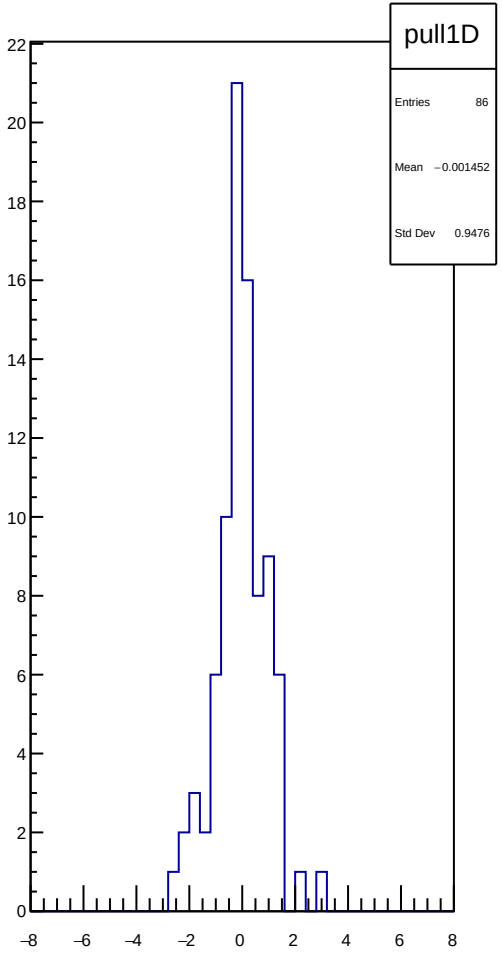

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 3.11e+04 / 85
p0 6049 ± 4.7
8000
7500
7000
6500
6000
5500
5000

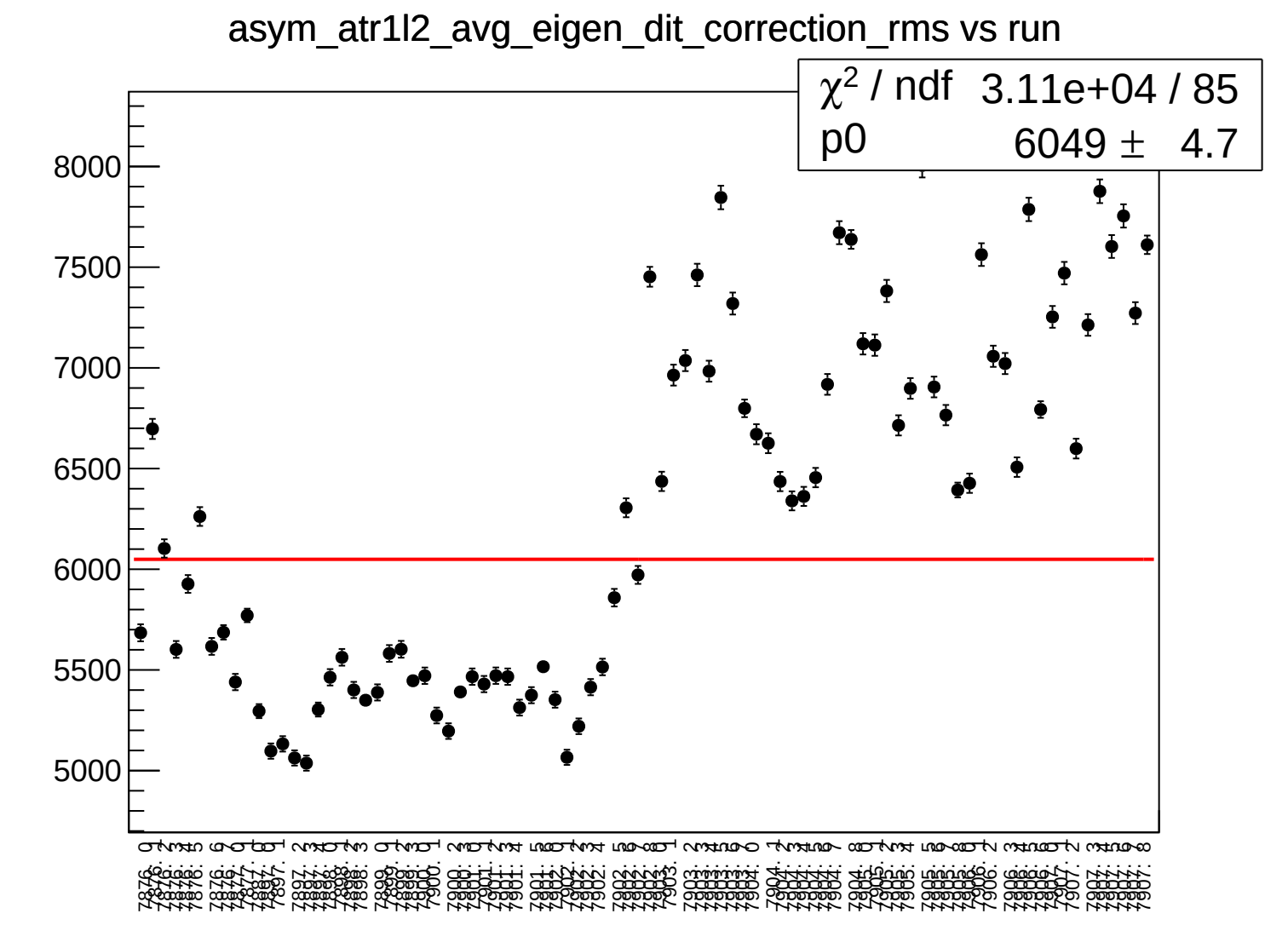

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 87.89 / 85
p0 463.3 ± 2042
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 748.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

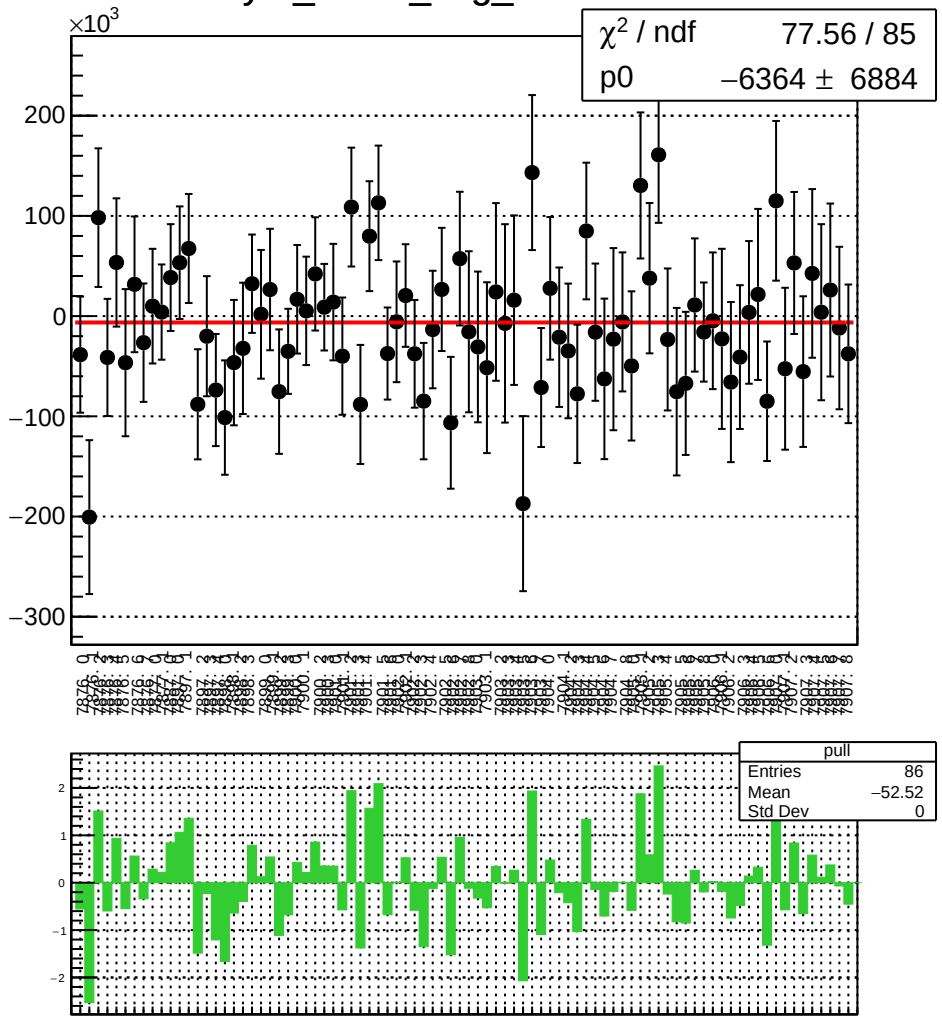

pull1D
Entries 86
Mean −0.004689
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

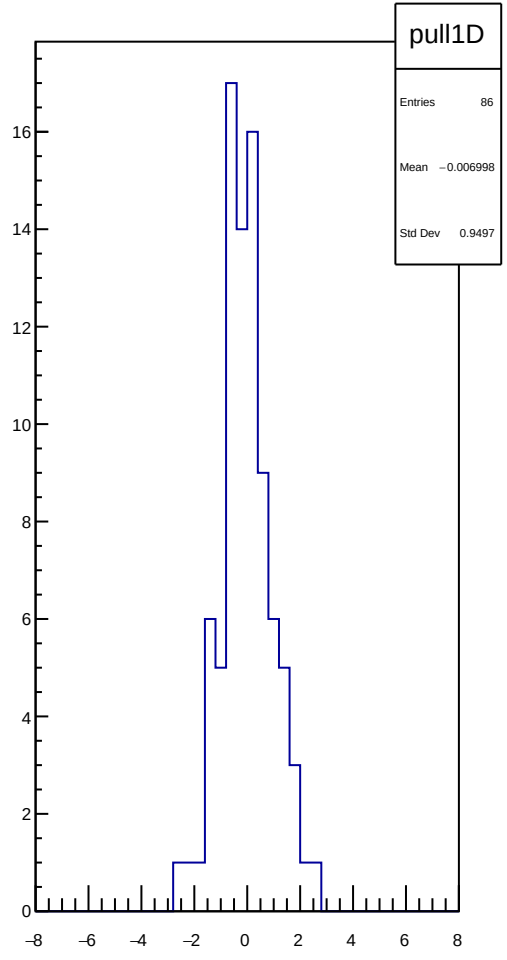

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 4261 / 85
p0 1874 ± 1.444
2600
2400
2200
2000
1800

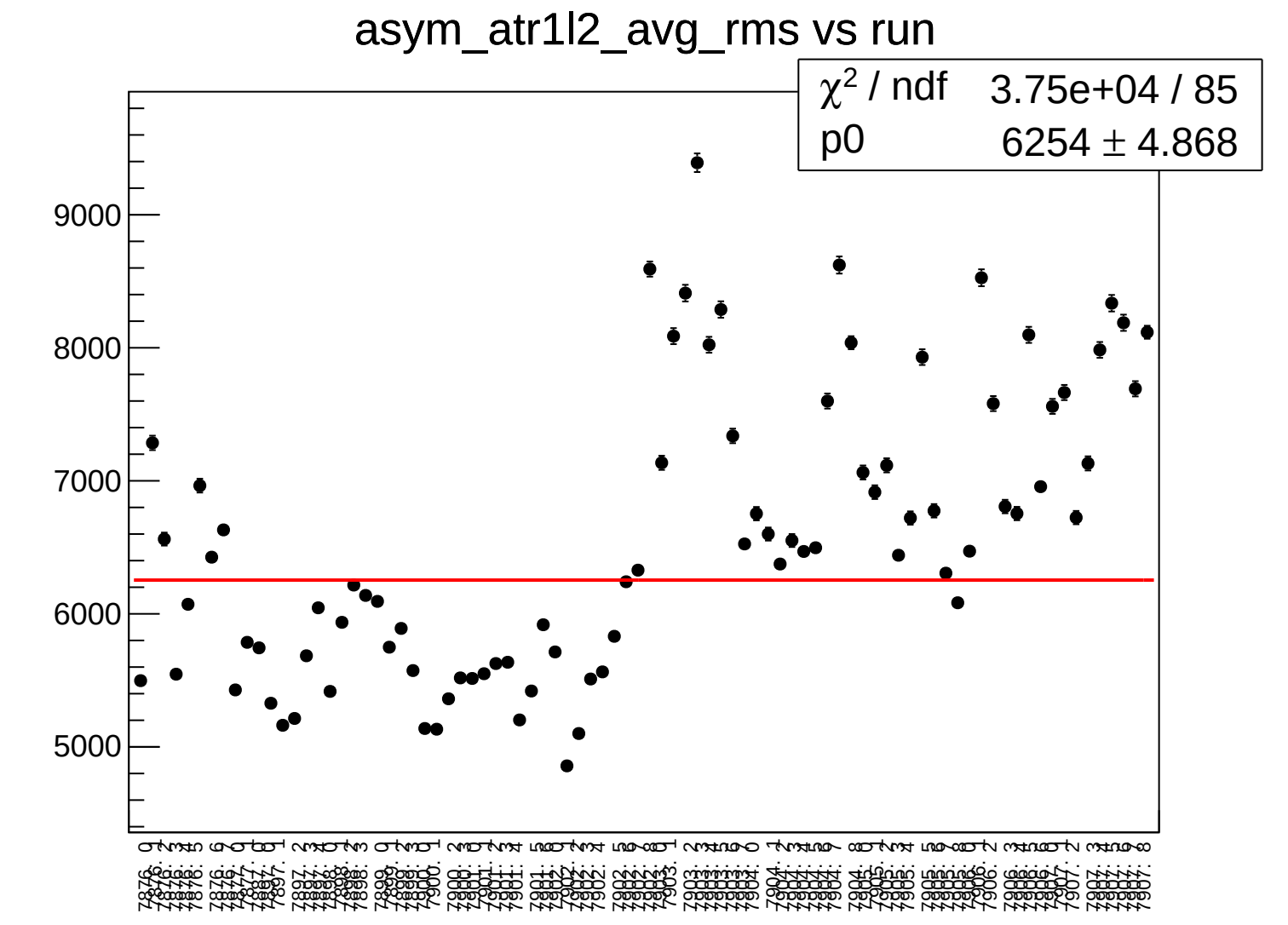

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.23 / 85
p0 7840 ± 6646
pull
Entries 86
Mean 1151
Std Dev 0

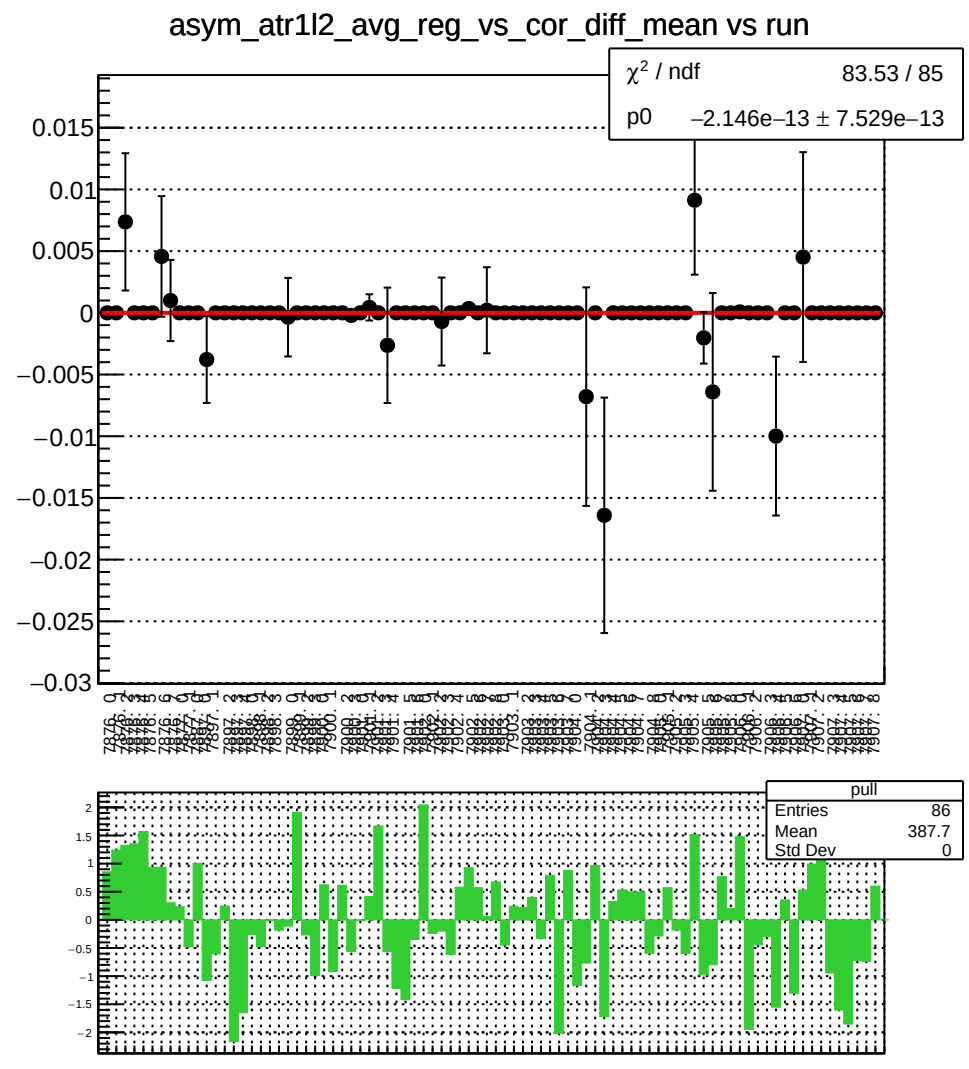

pull1D
Entries 86
Mean −0.001452
Std Dev 0.9476

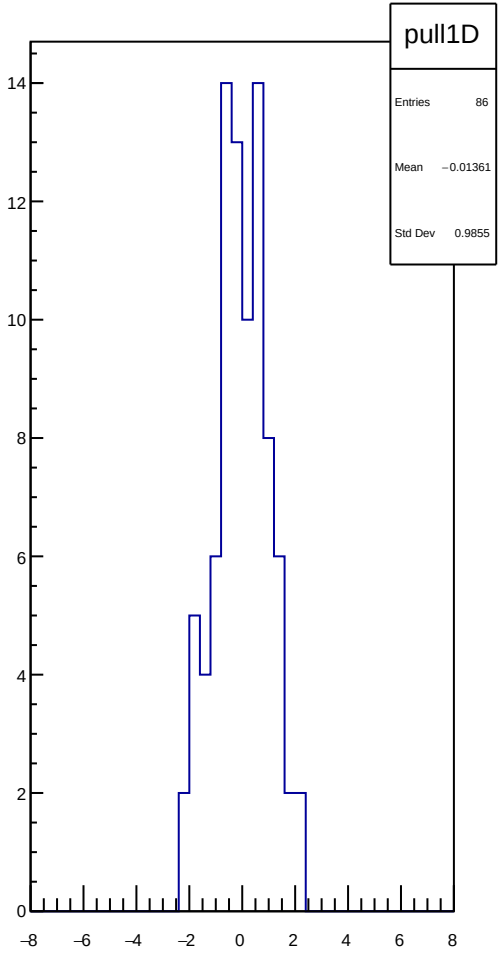

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.11e+04 / 85
p0 6049 ± 4.7
8000
7500
7000
6500
6000
5500
5000

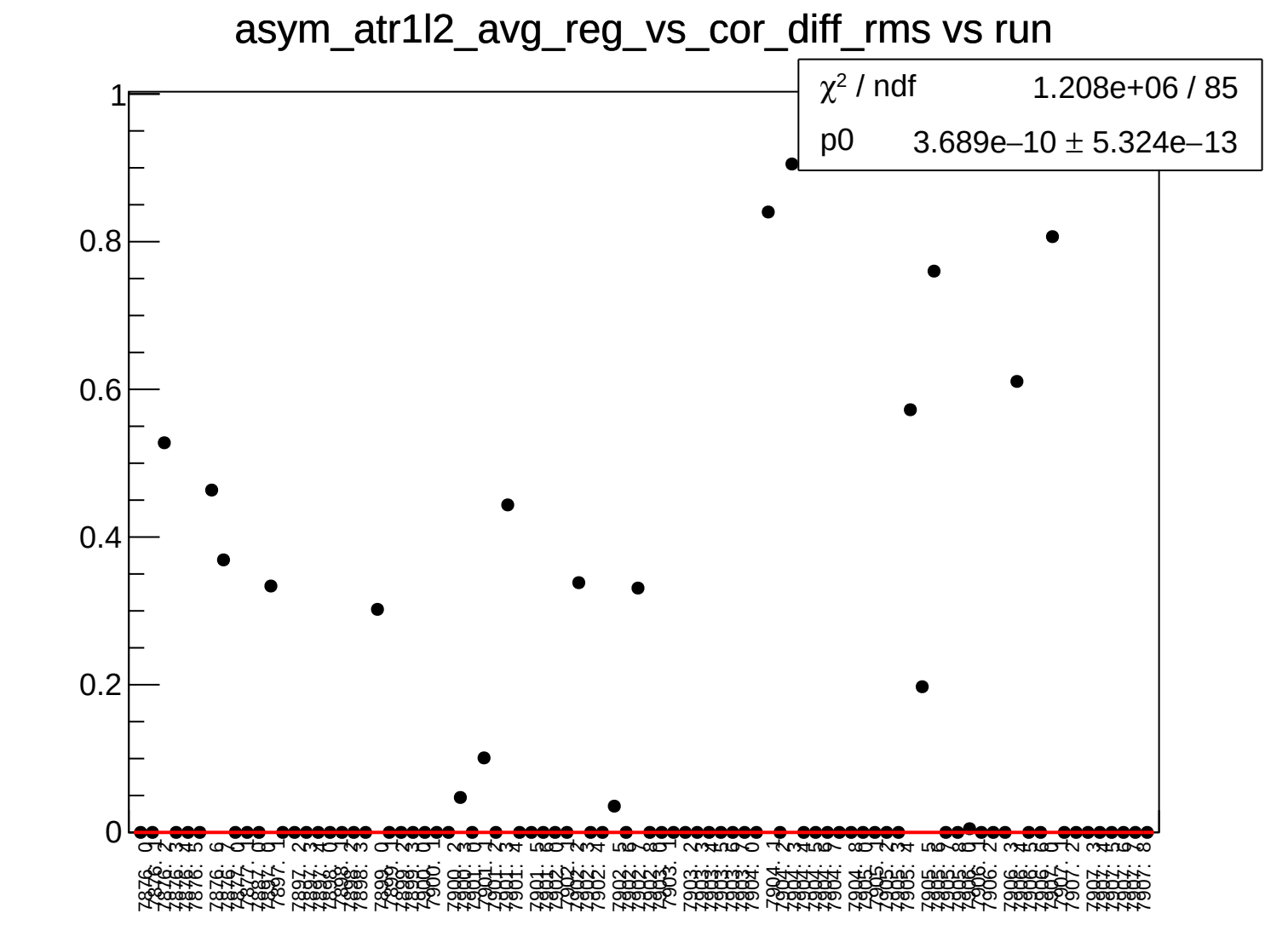

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 77.56 / 85
p0 −6364 ± 6884
200
100
0
−100
−200
−300
pull
Entries 86
Mean −52.52
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.006998
Std Dev 0.9497
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

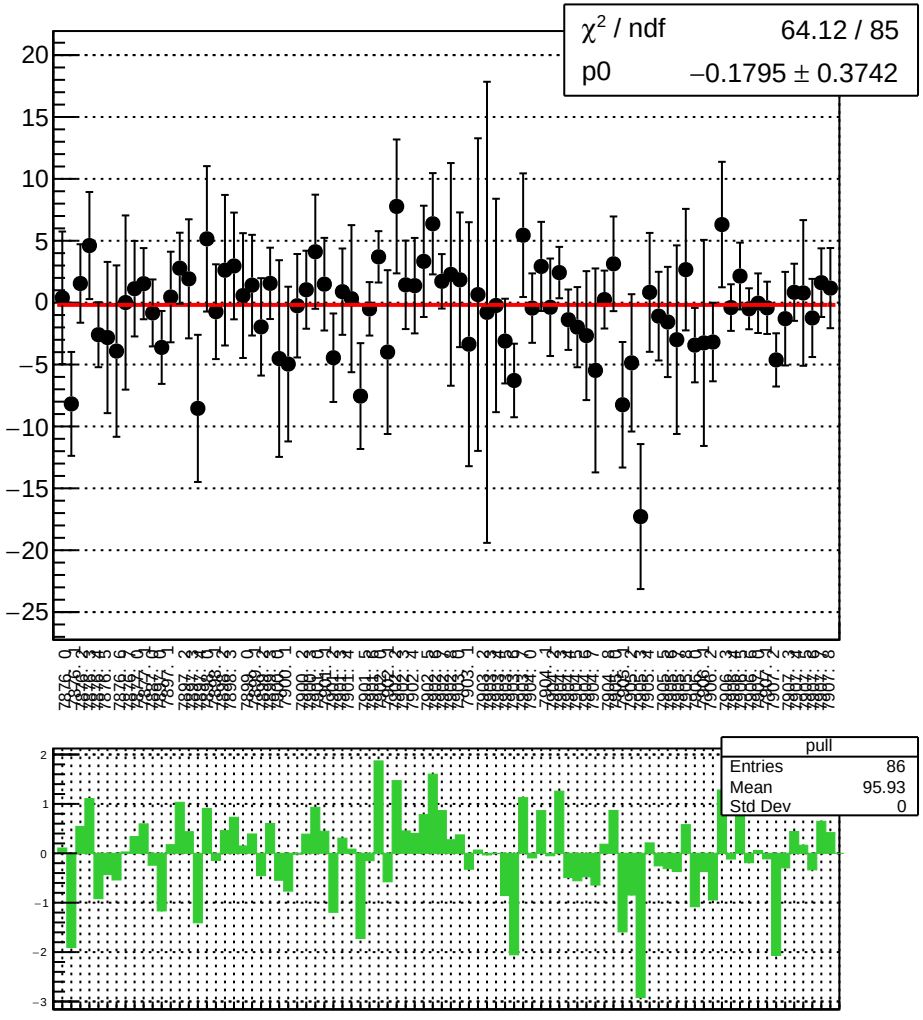

asym_atr1l2_avg_rms vs run
χ^2 / ndf 3.75e+04 / 85
p0 6254 ± 4.868
9000
8000
7000
6000
5000

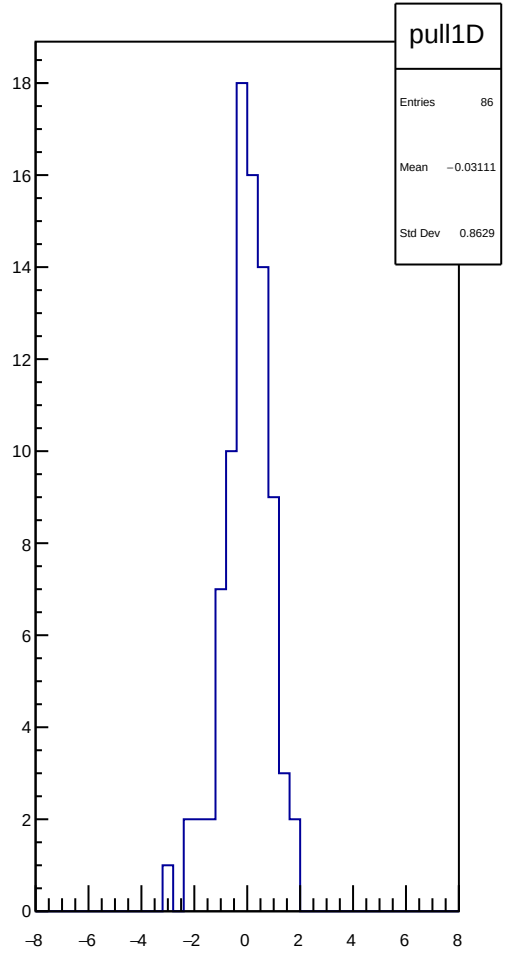

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.53 / 85
p0 −2.146e−13 ± 7.529e−13
pull
Entries 86
Mean 387.7
Std Dev 0

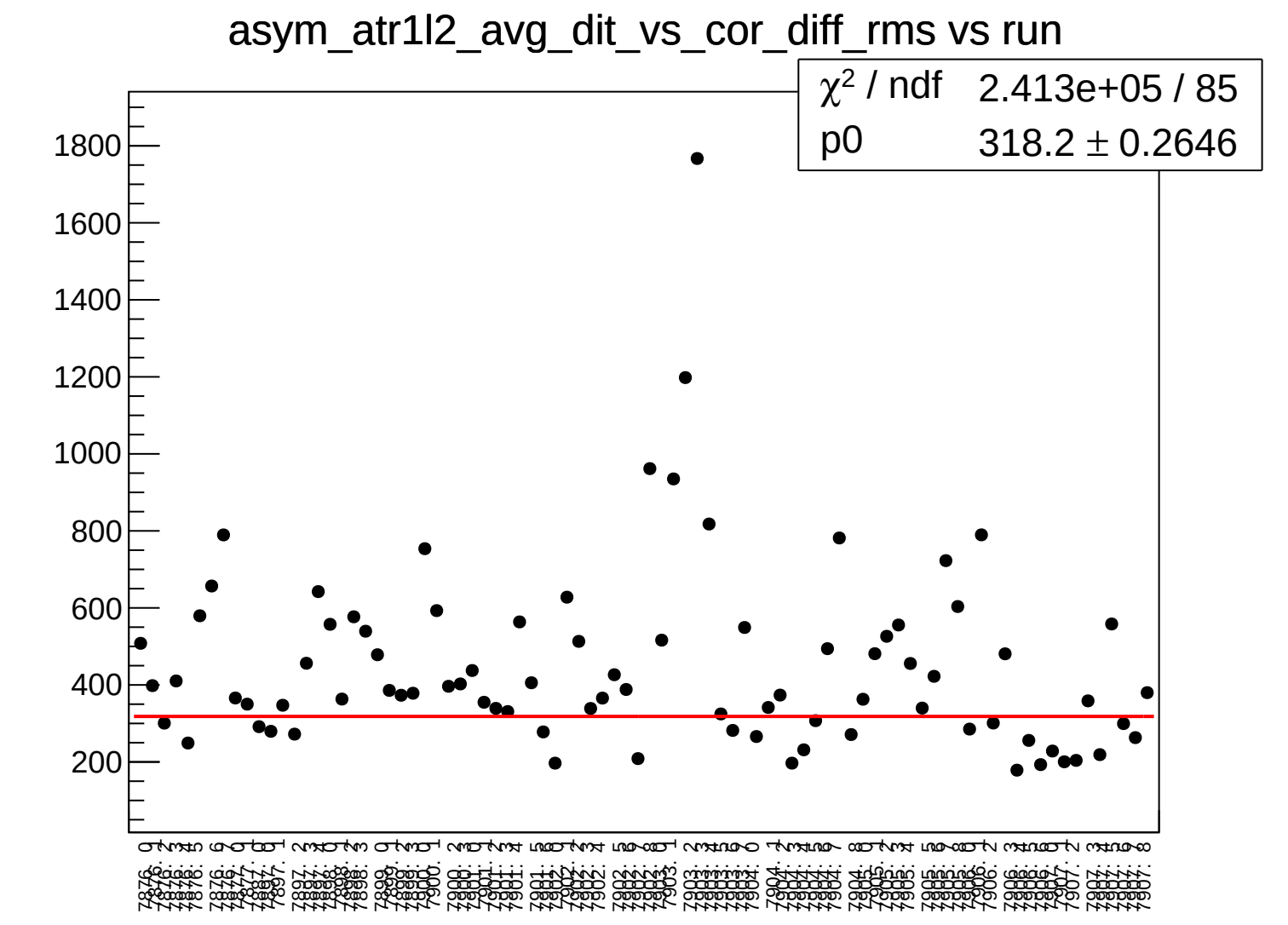

pull1D
Entries 86
Mean −0.01361
Std Dev 0.9855

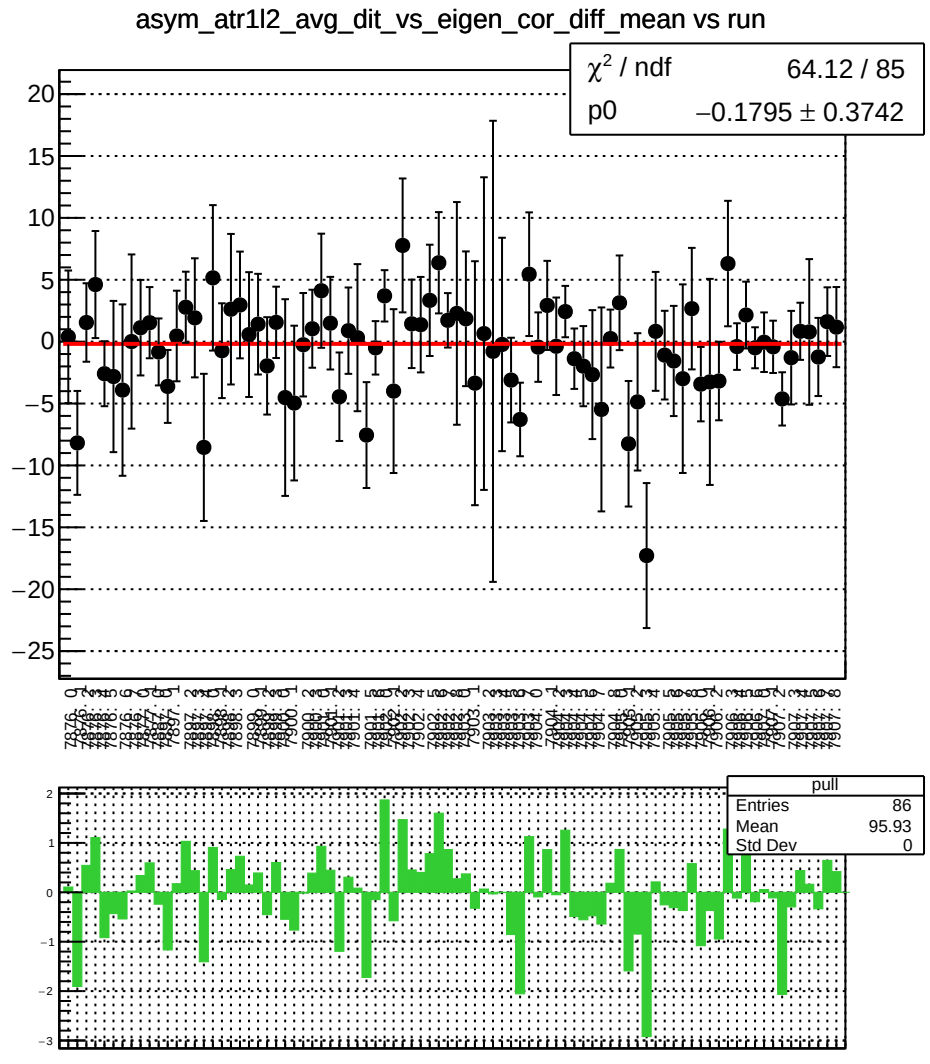

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.208e+06 / 85
p0 3.689e−10 ± 5.324e−13
1
0.8
0.6
0.4
0.2
0

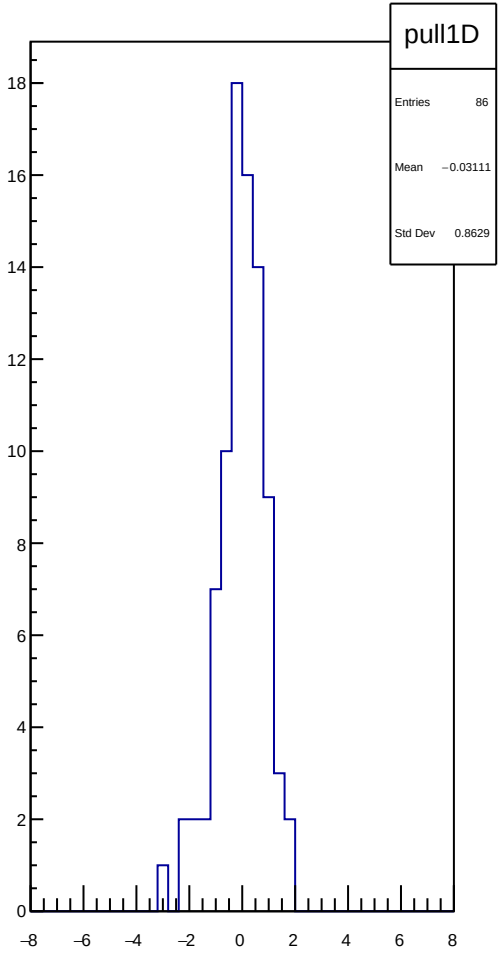
asym_atr1l2_avg_dit_vs_cor_diff_mean vs run

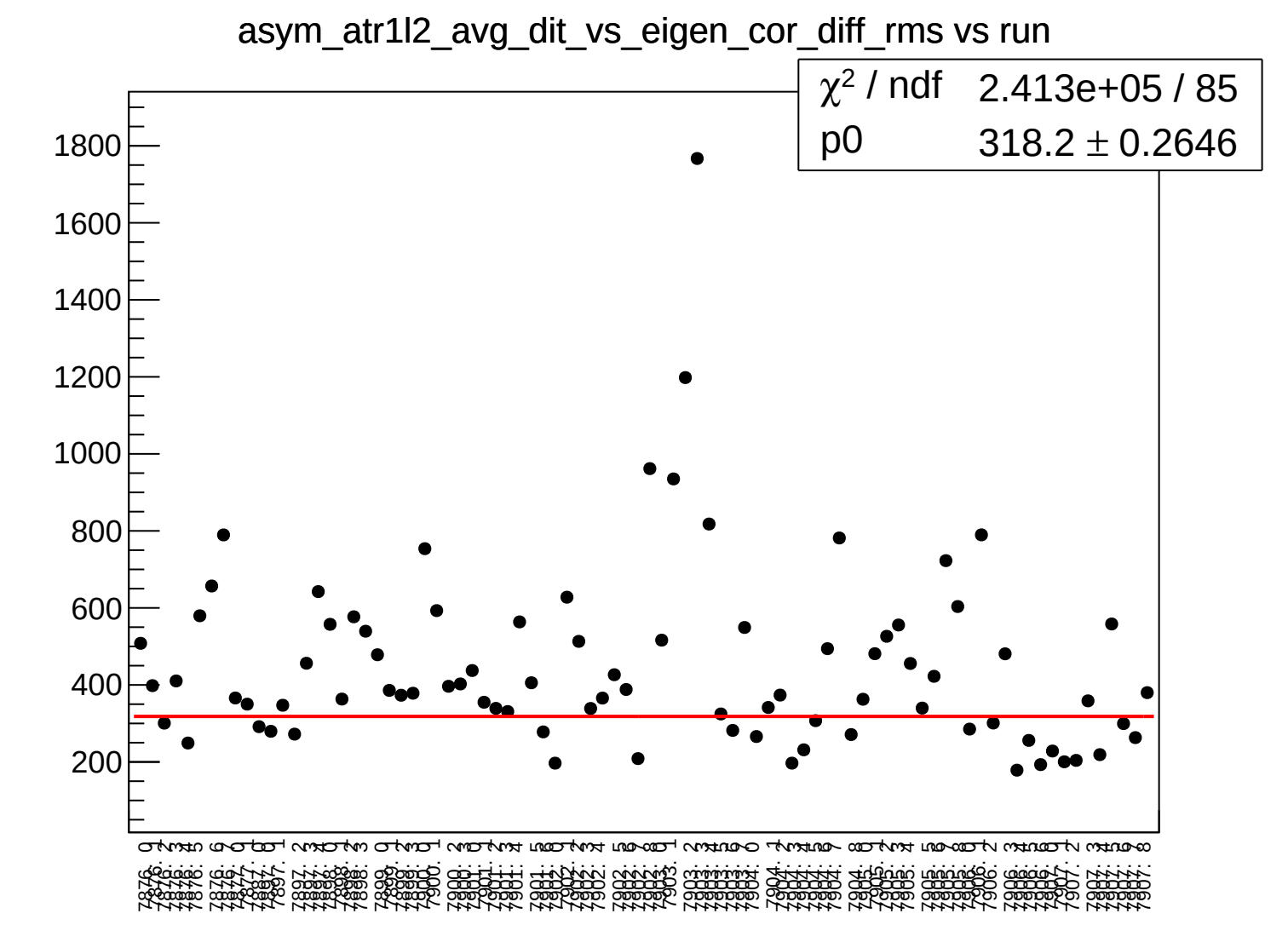


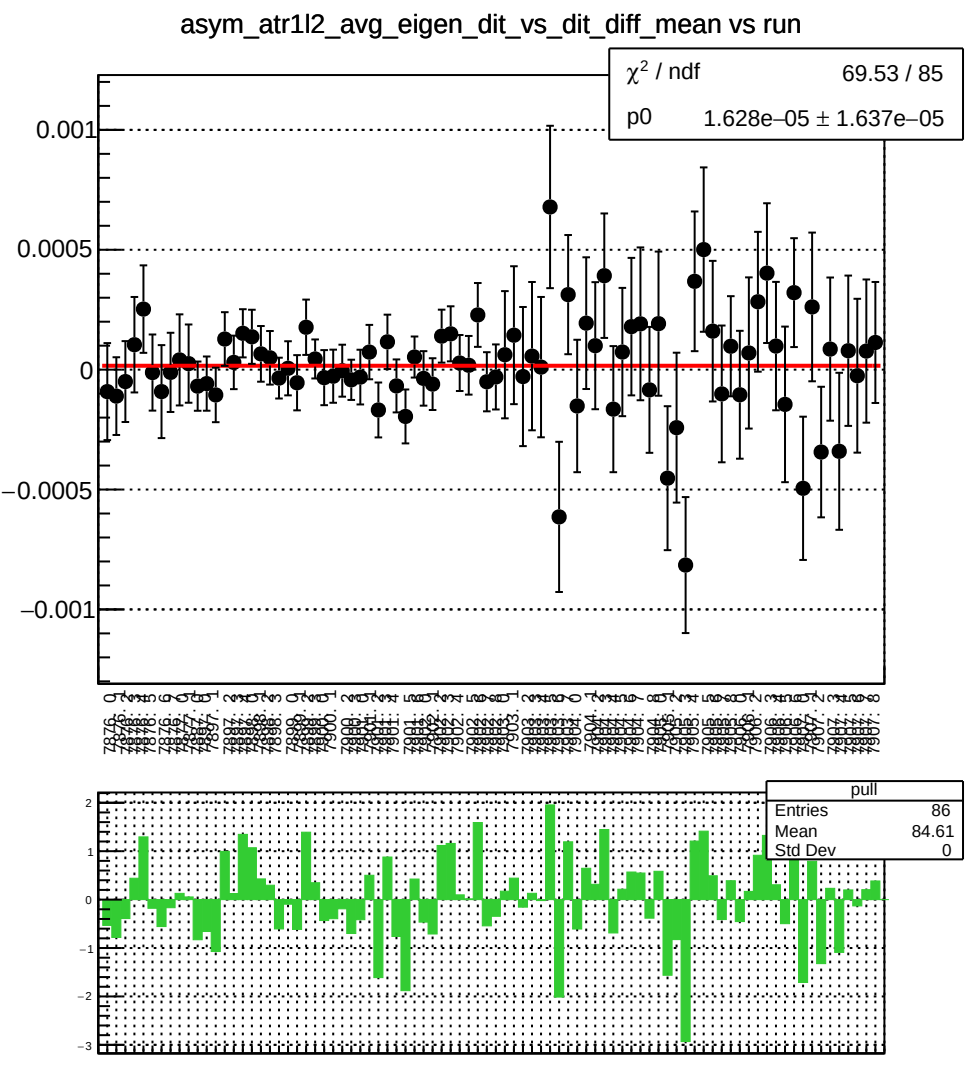


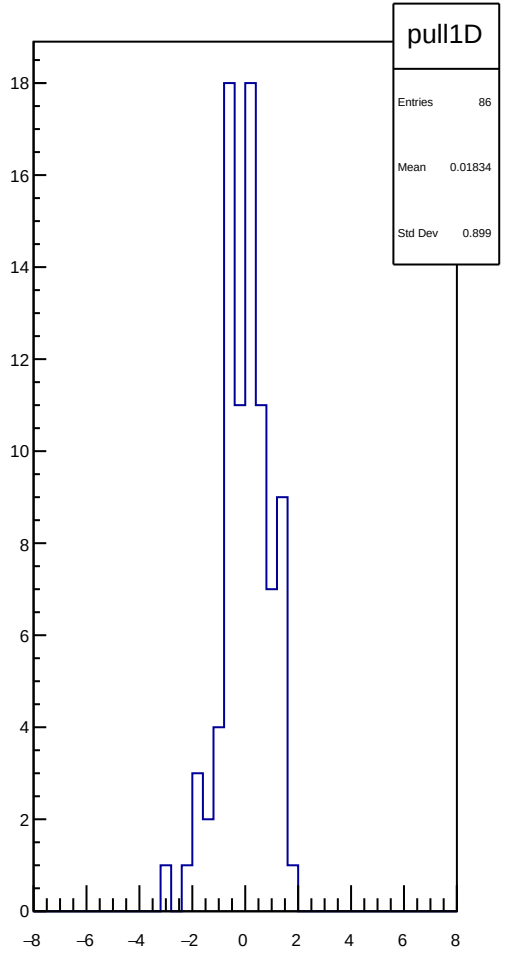

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.413e+05 / 85
p0 318.2 ± 0.2646
1800
1600
1400
1200
1000
800
600
400
200

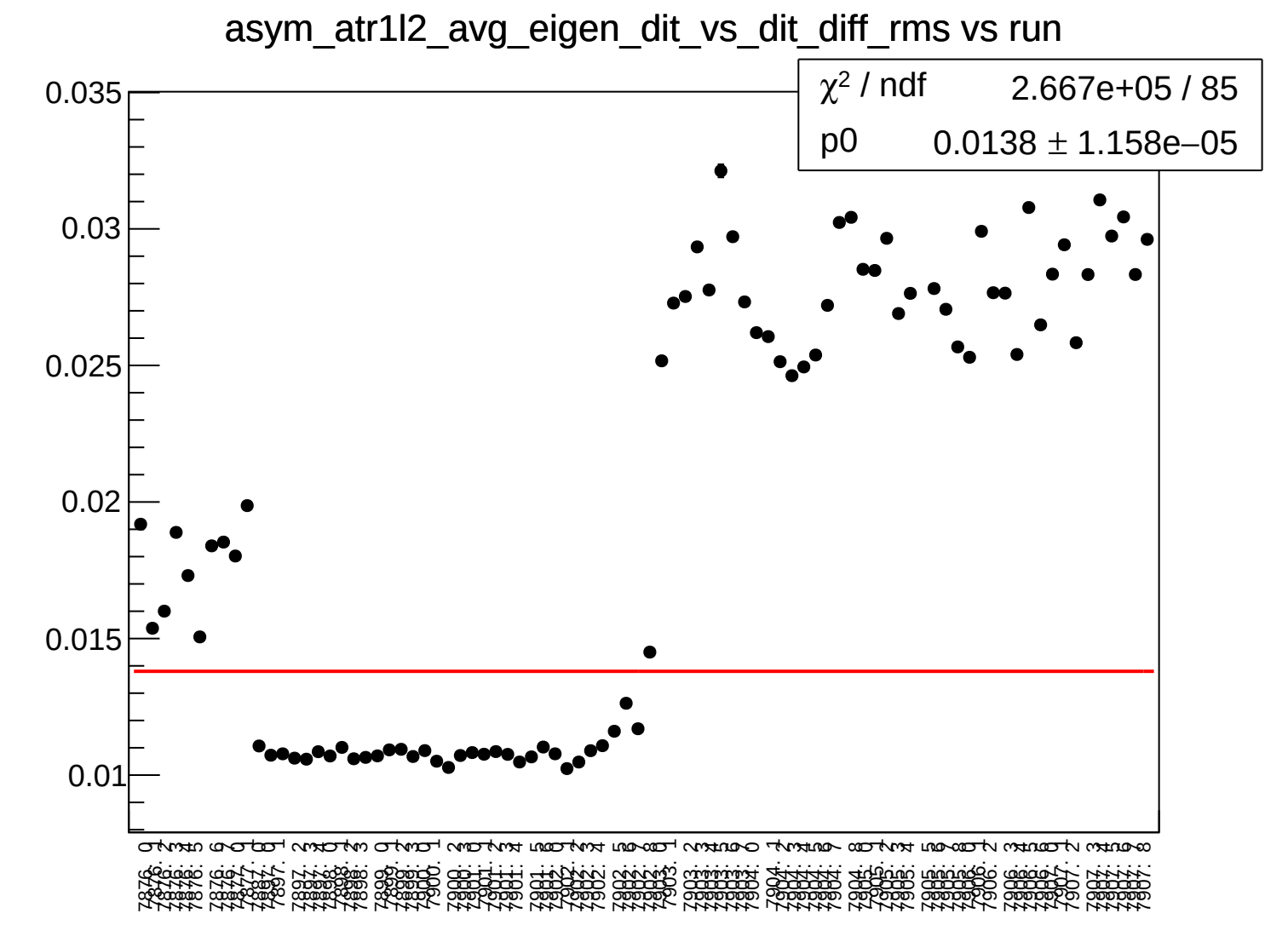

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.12 / 85
p0 −0.1795 ± 0.3742
pull
Entries 86
Mean 95.93
Std Dev 0

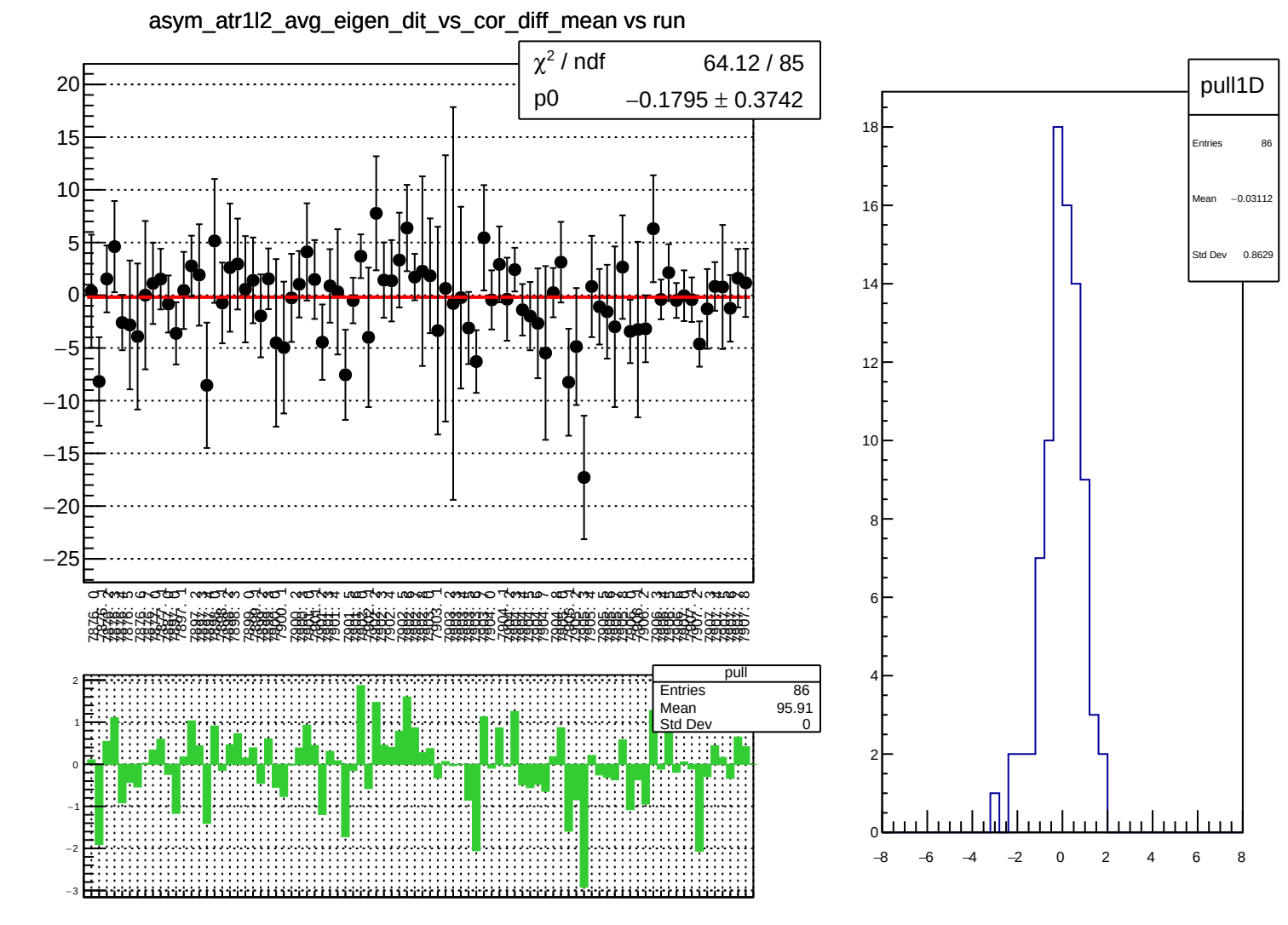

pull1D
Entries 86
Mean −0.03111
Std Dev 0.8629

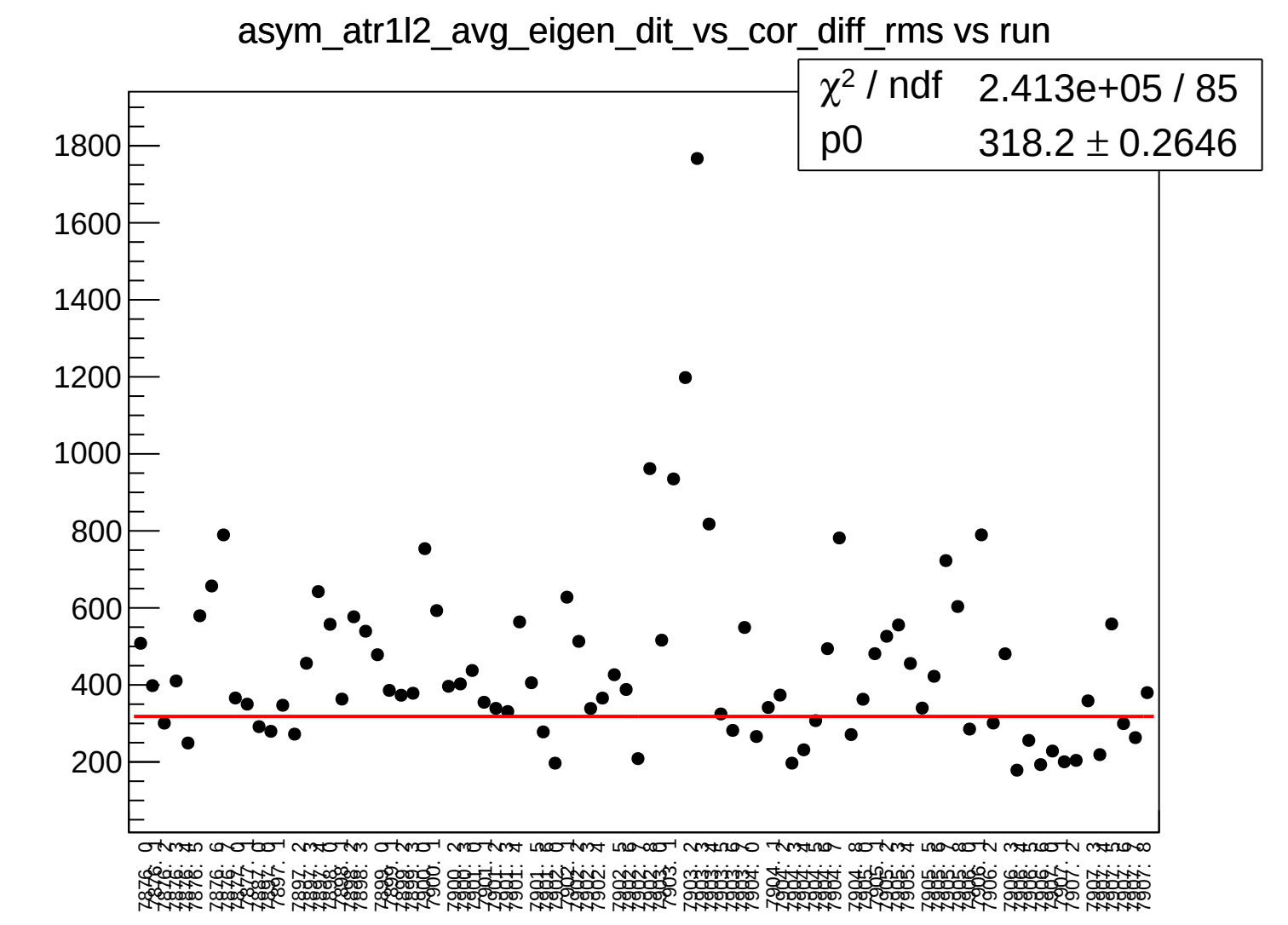

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.413e+05 / 85
p0 318.2 ± 0.2646
1800
1600
1400
1200
1000
800
600
400
200

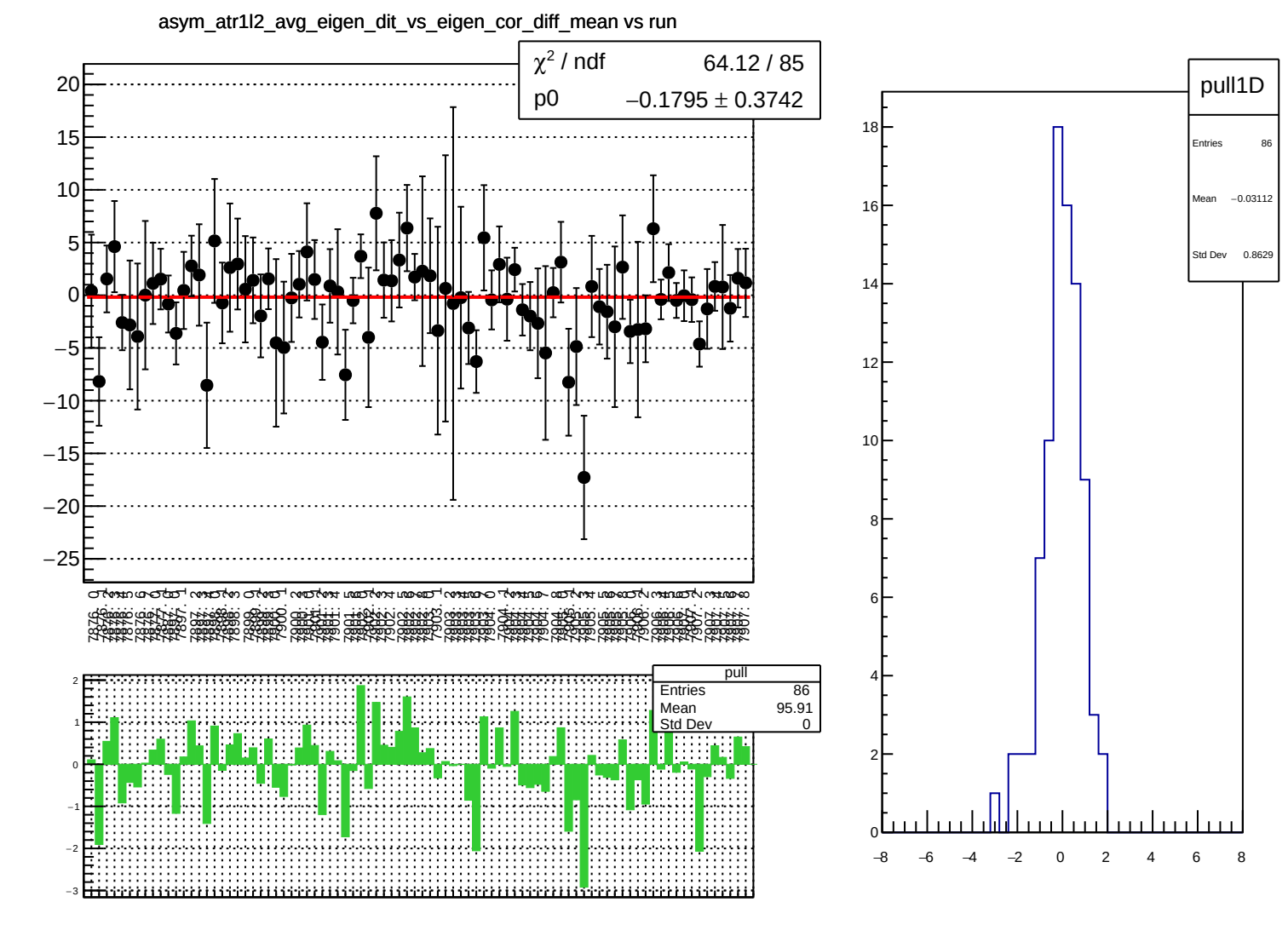

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 69.53 / 85
p0 1.628e−05 ± 1.637e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 84.61
Std Dev 0
2
1
0
−1
−2
−3

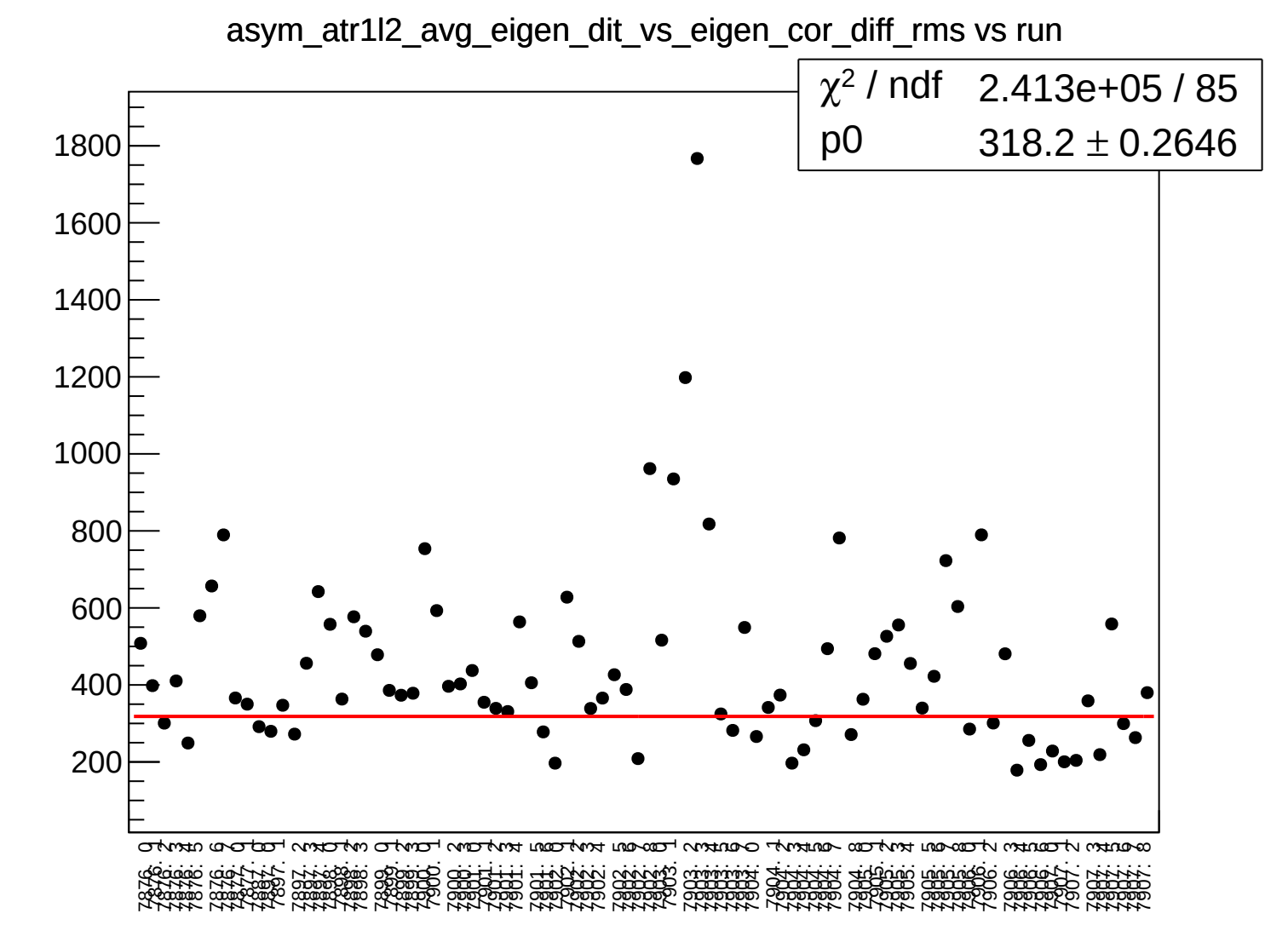

pull1D
Entries 86
Mean 0.01834
Std Dev 0.899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

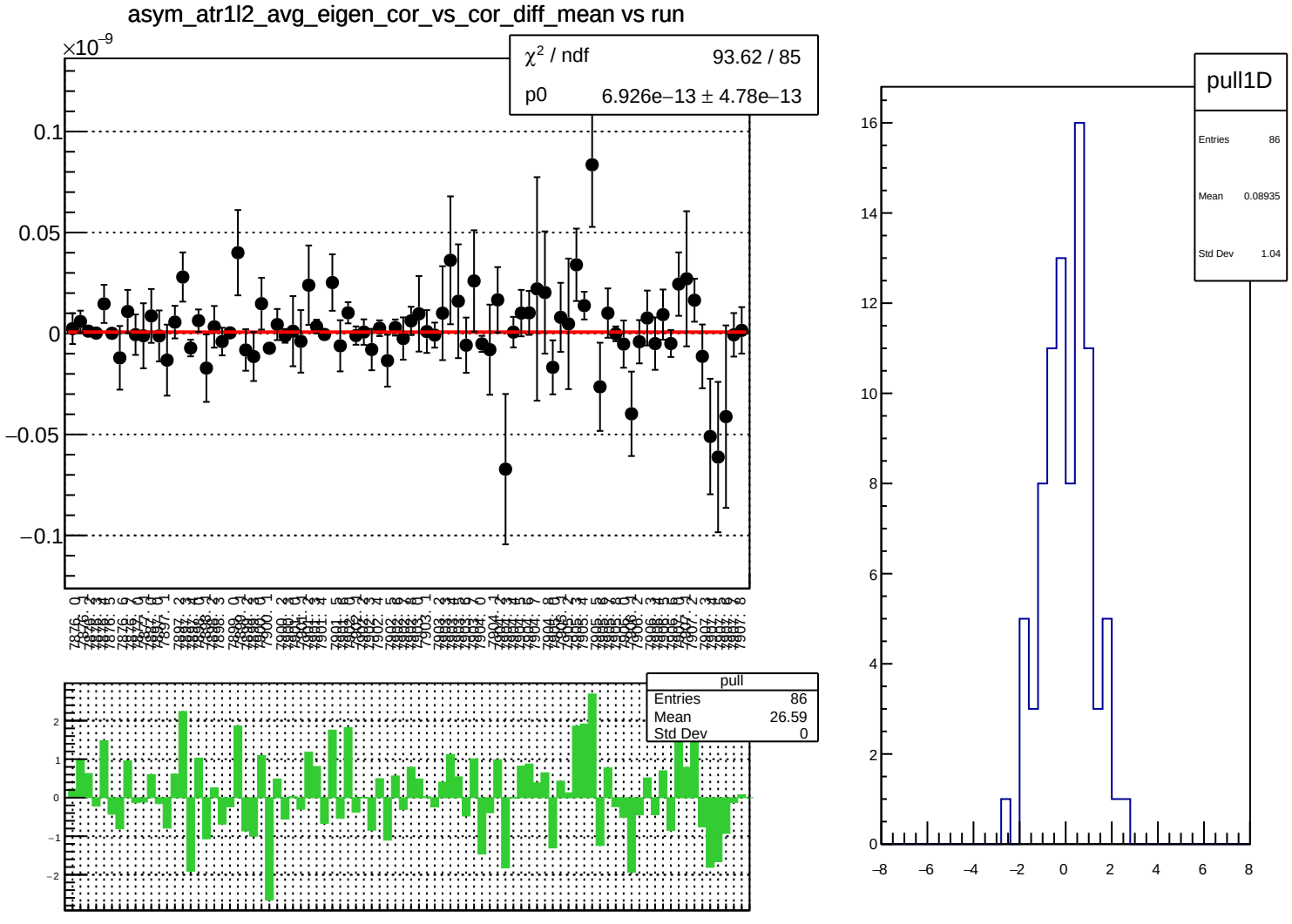

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.667e+05 / 85
p0 0.0138 ± 1.158e−05
0.035
0.03
0.025
0.02
0.015
0.01

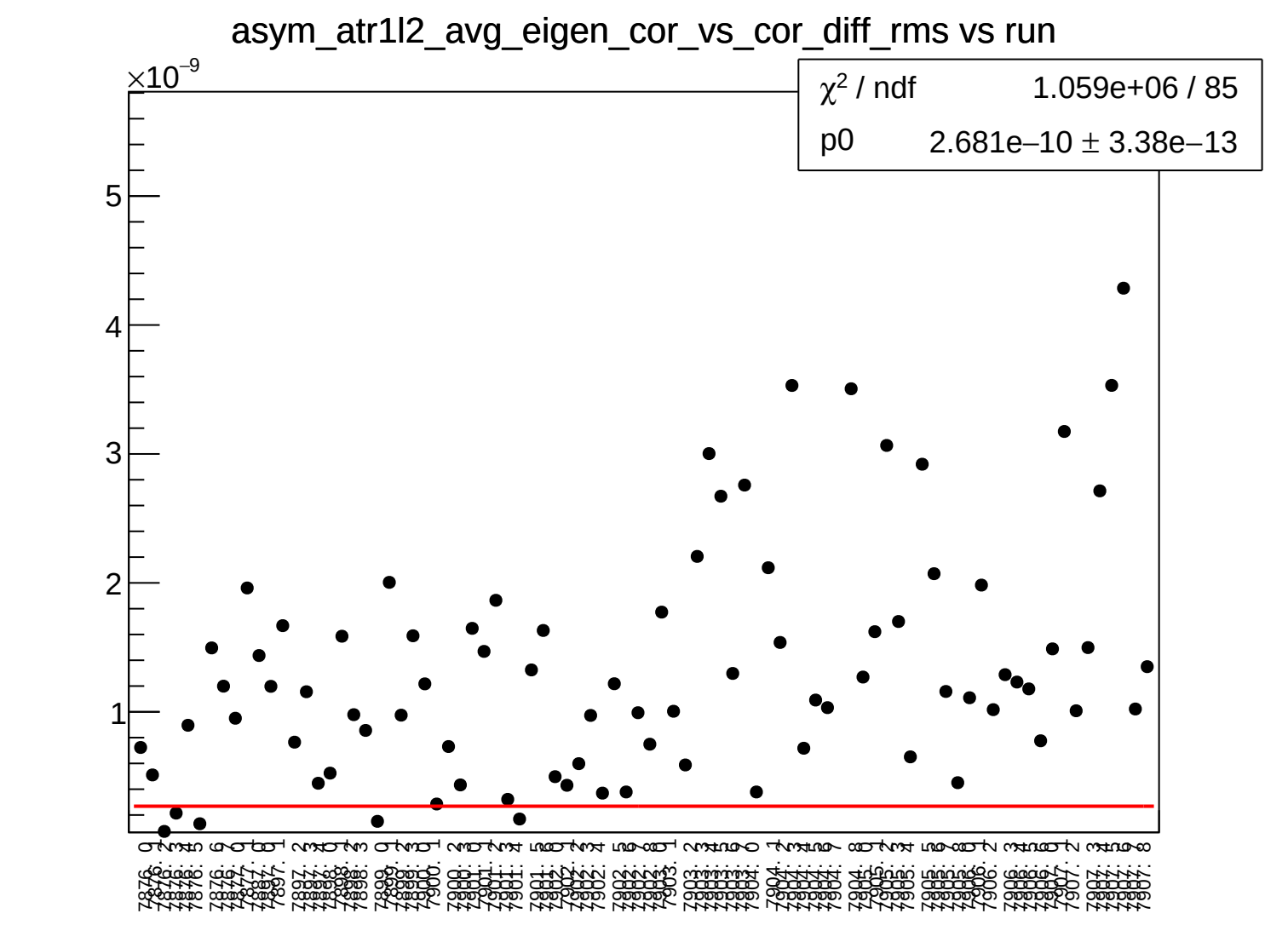

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.12 / 85
p0 −0.1795 ± 0.3742
pull
Entries 86
Mean 95.91
Std Dev 0
pull1D
Entries 86
Mean −0.03112
Std Dev 0.8629

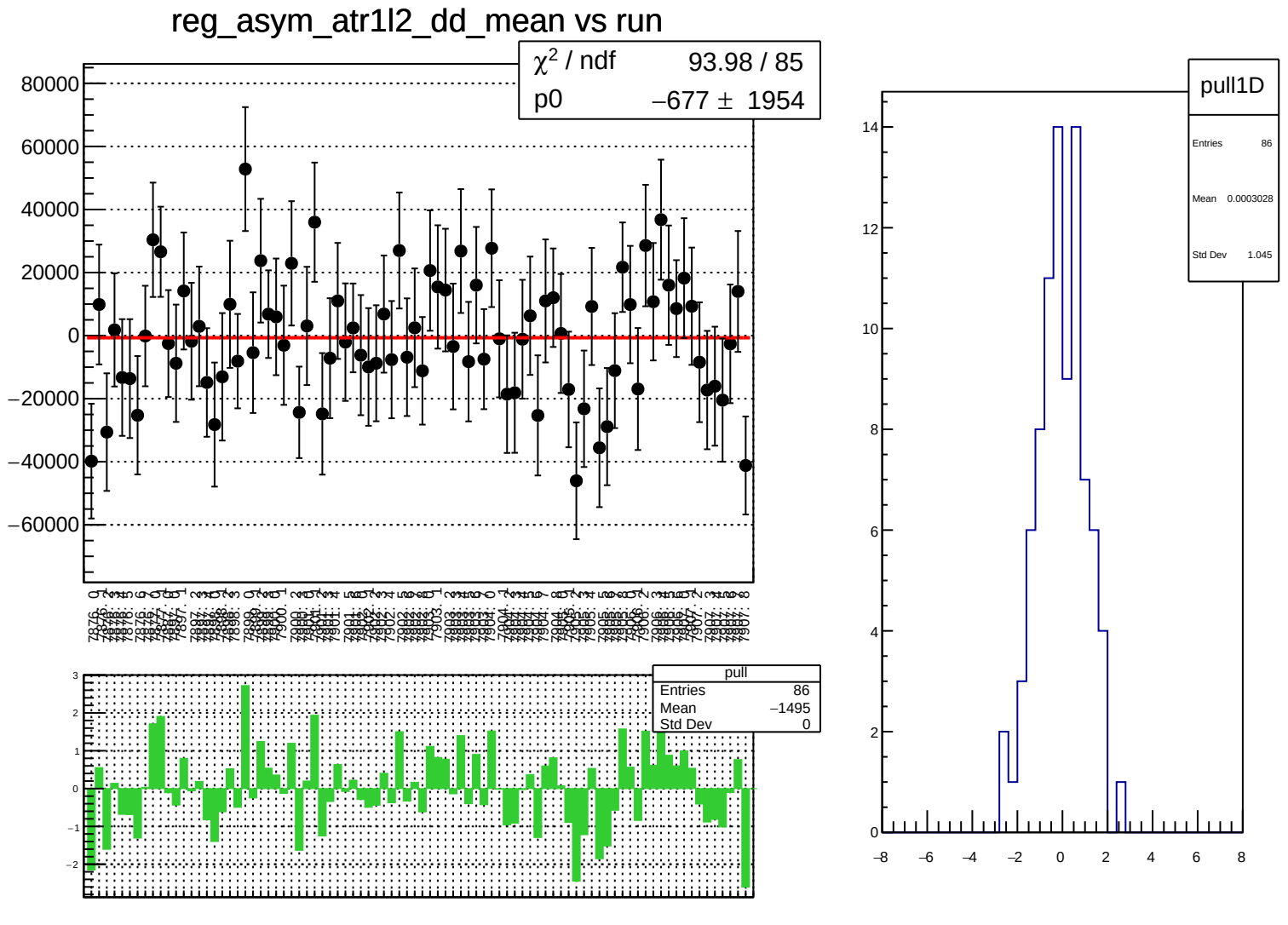

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.413e+05 / 85
p0 318.2 ± 0.2646
1800
1600
1400
1200
1000
800
600
400
200

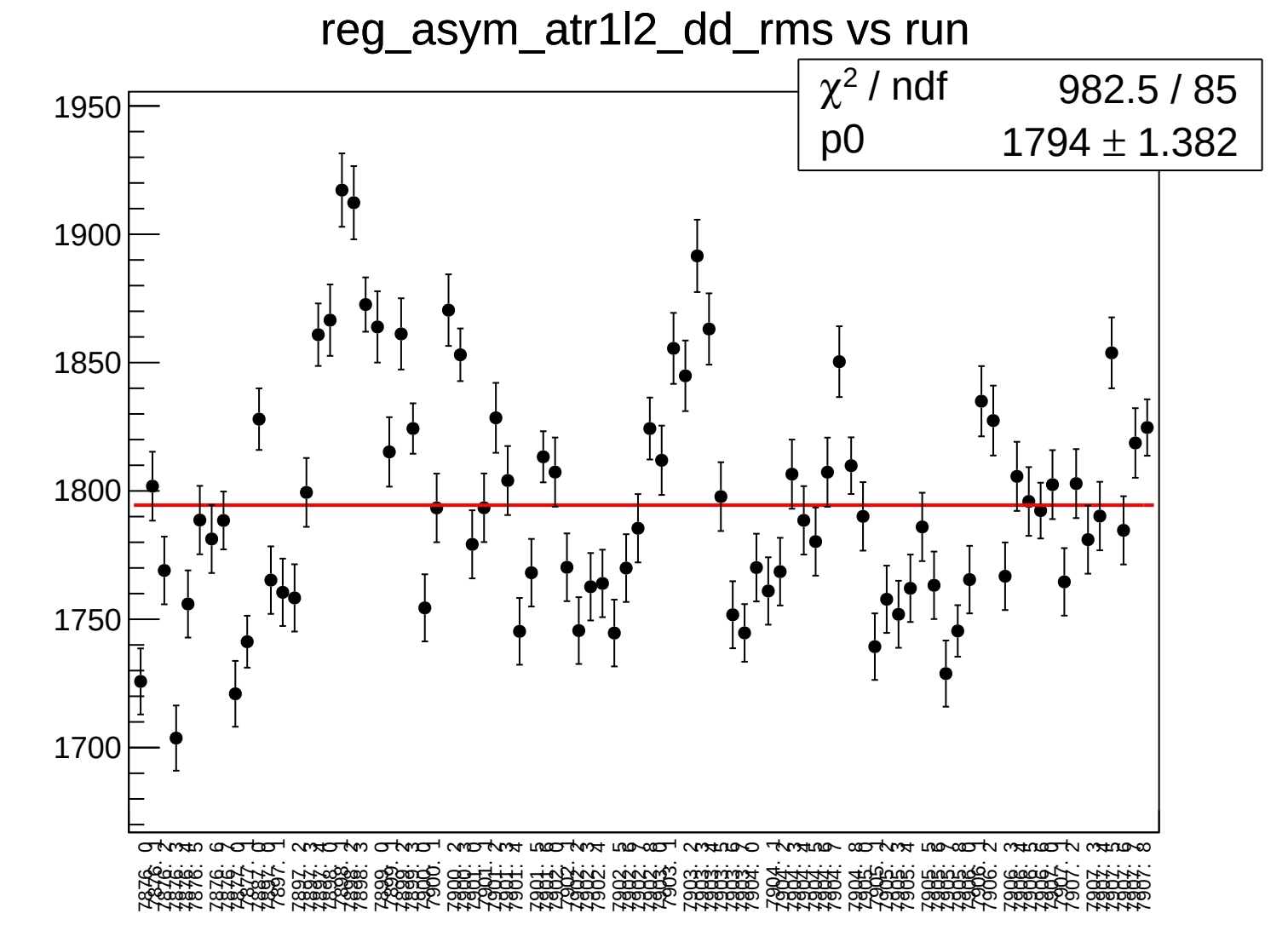

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.12 / 85
p0 −0.1795 ± 0.3742
pull
Entries 86
Mean 95.91
Std Dev 0
pull1D
Entries 86
Mean −0.03112
Std Dev 0.8629

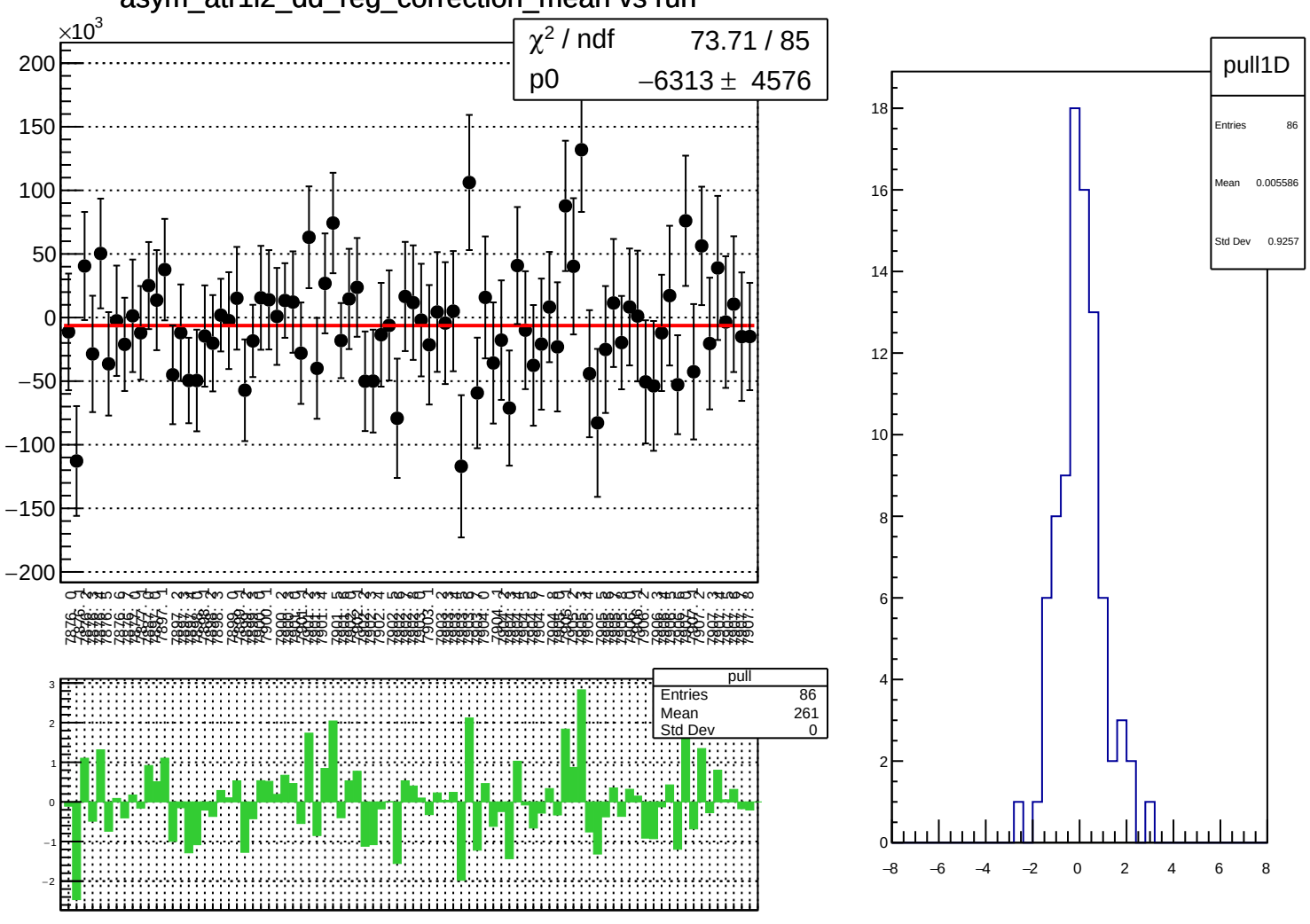

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.413e+05 / 85
p0 318.2 ± 0.2646
1800
1600
1400
1200
1000
800
600
400
200

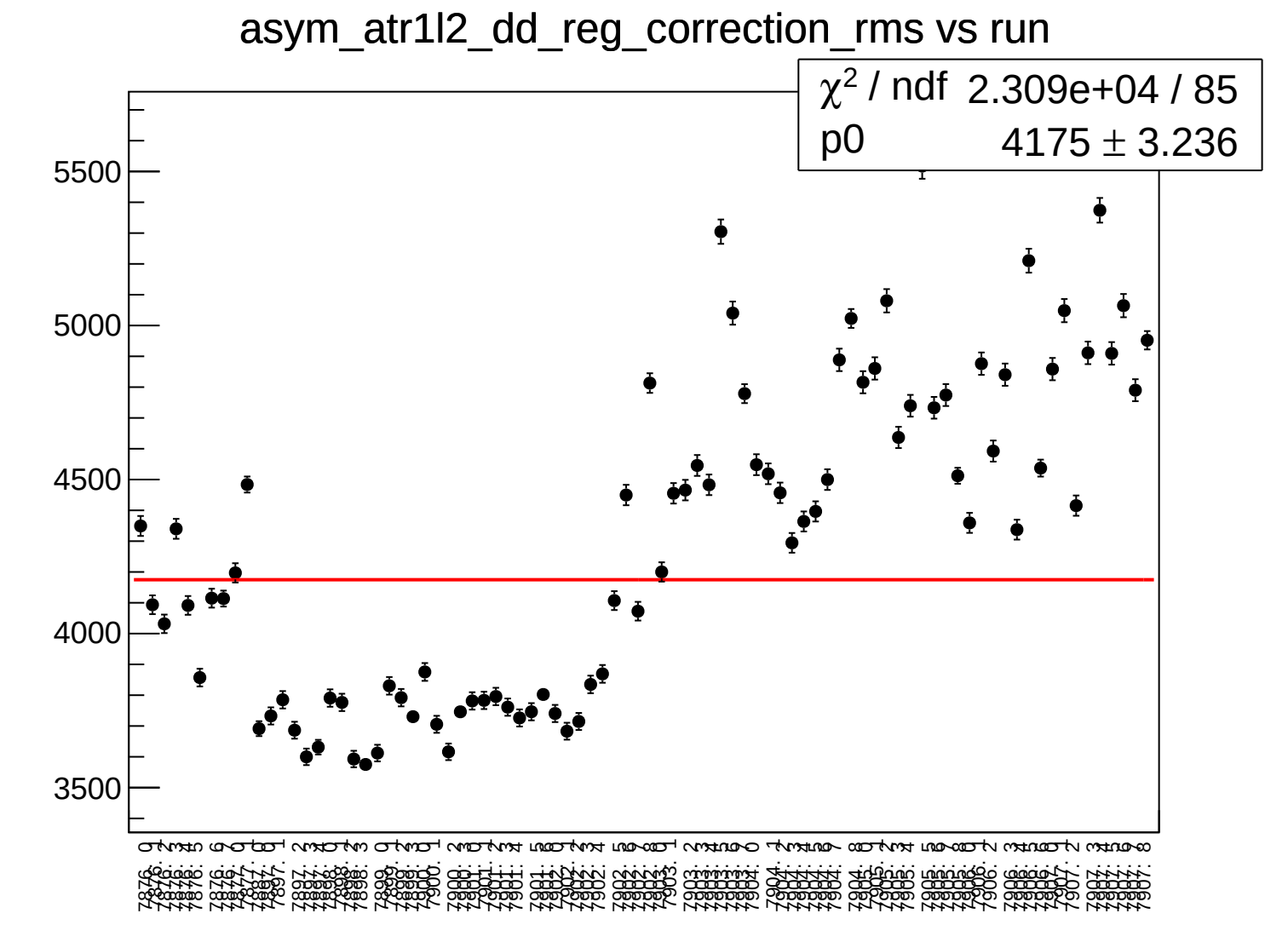

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 93.62 / 85
p0 6.926e−13 ± 4.78e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 26.59
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.08935
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

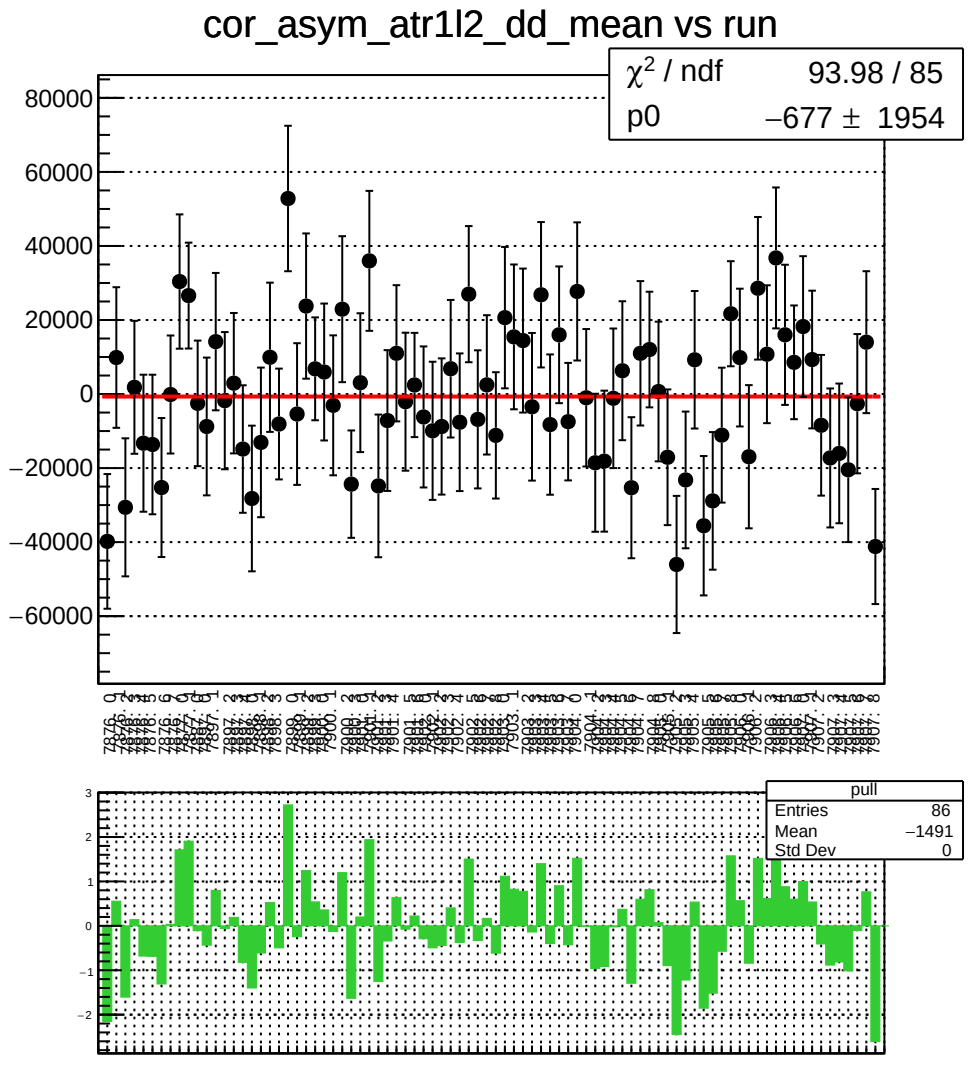

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.059e+06 / 85
p0 2.681e−10 ± 3.38e−13
5
4
3
2
1

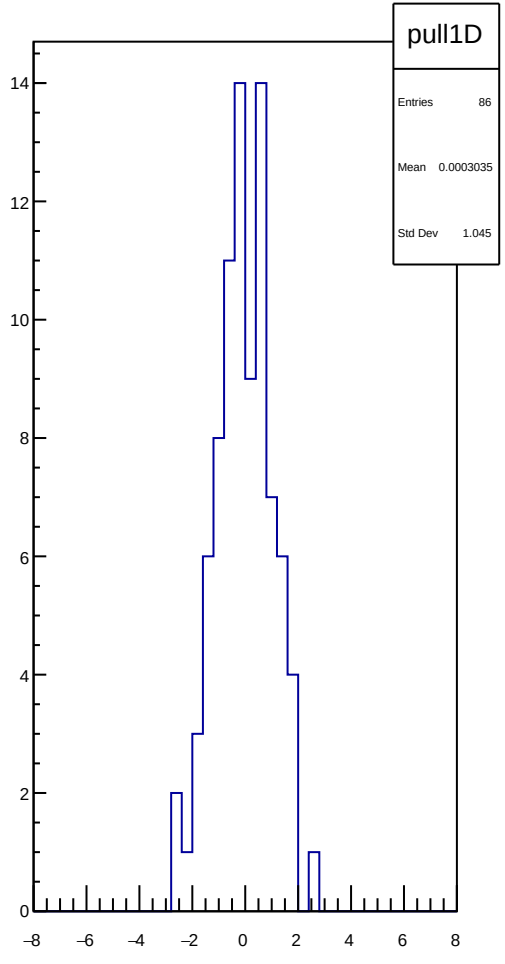

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 93.98 / 85
p0 −677 ± 1954
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1495
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.0003028
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

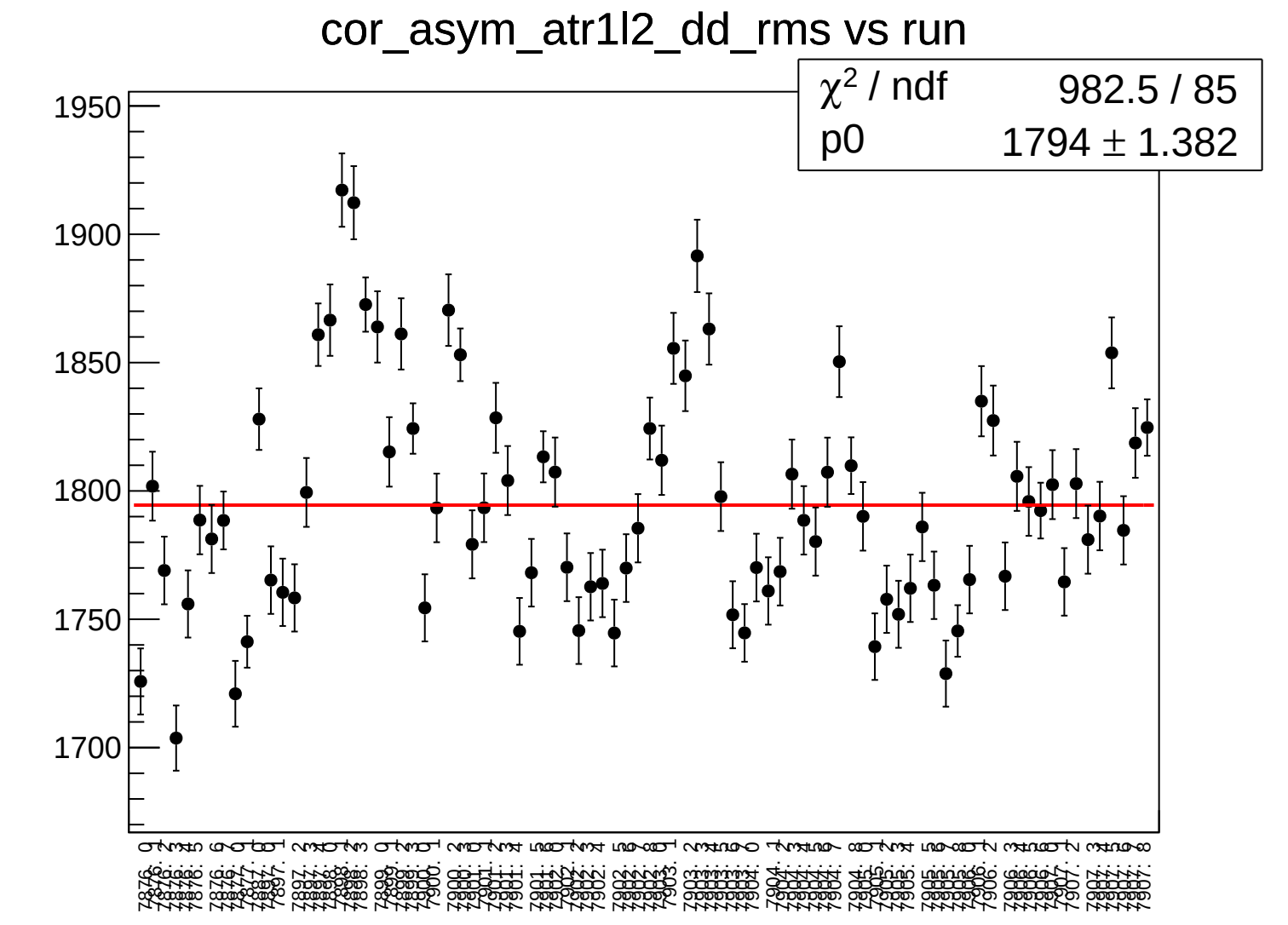

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 982.5 / 85
p0 1794 ± 1.382
1950
1900
1850
1800
1750
1700

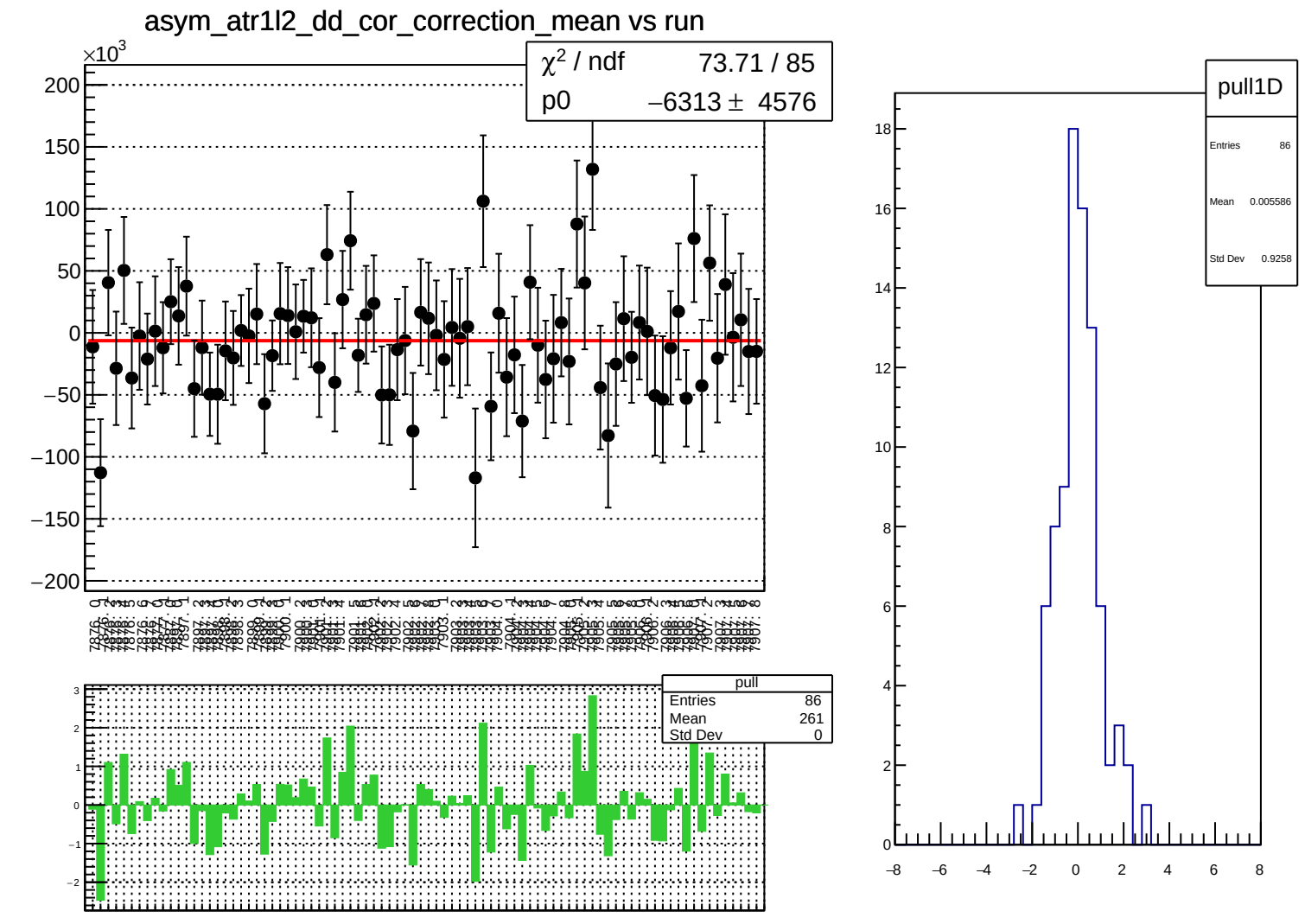

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 73.71 / 85
p0 −6313 ± 4576
pull
Entries 86
Mean 261
Std Dev 0
pull1D
Entries 86
Mean 0.005586
Std Dev 0.9257

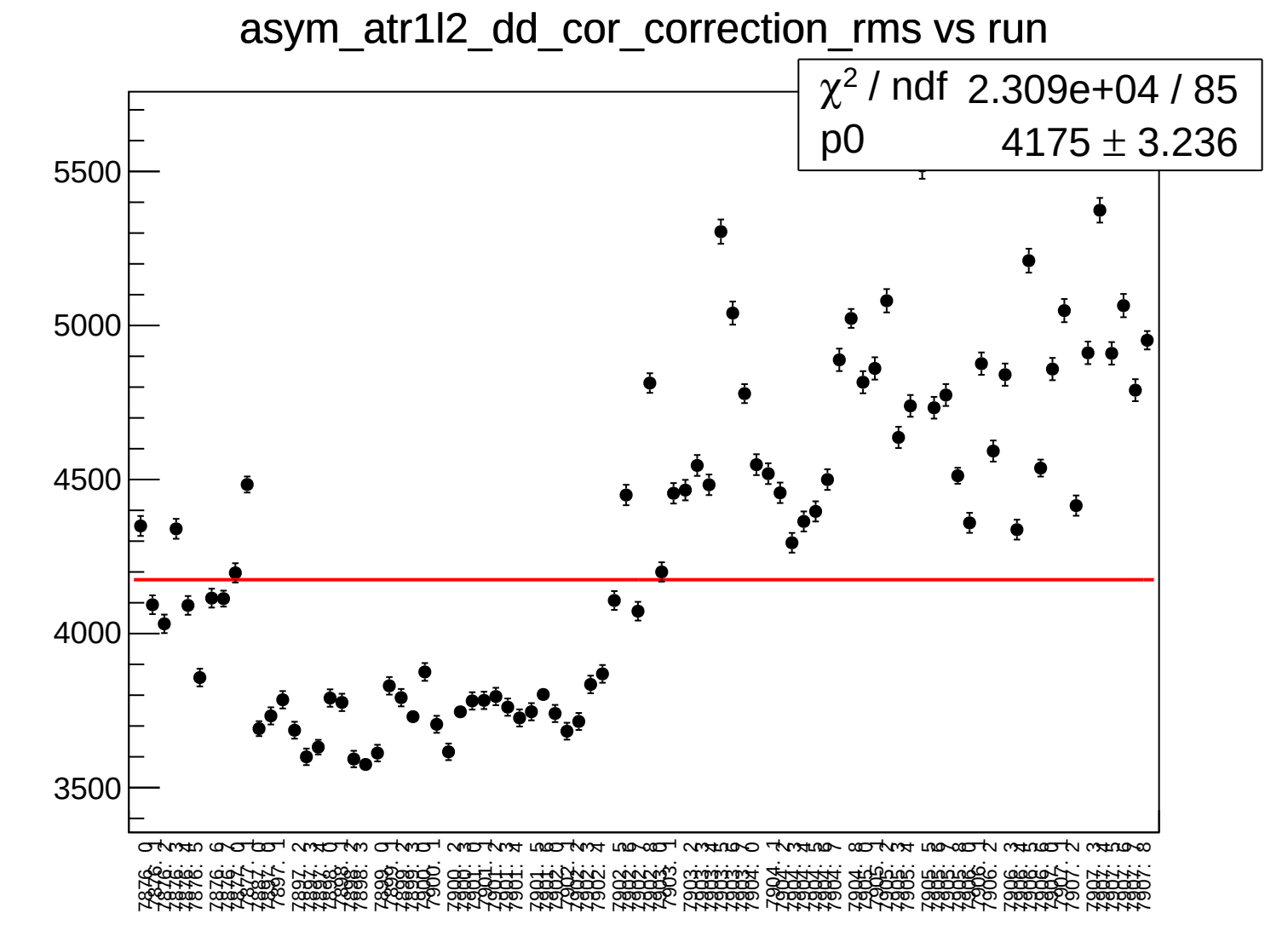

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2.309e+04 / 85
p0 4175 ± 3.236
5500
5000
4500
4000
3500

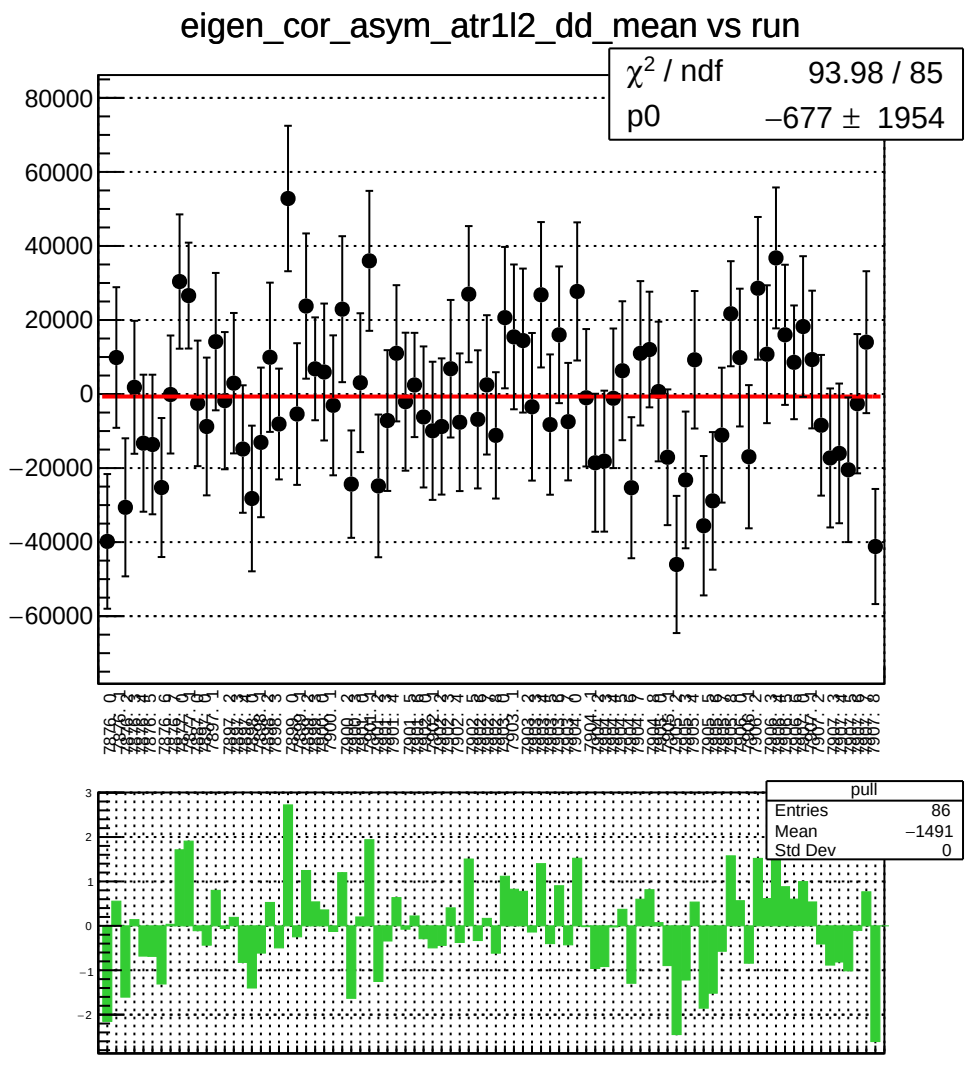

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 93.98 / 85
p0 −677 ± 1954
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1491
Std Dev 0
3
2
1
0
−1
−2

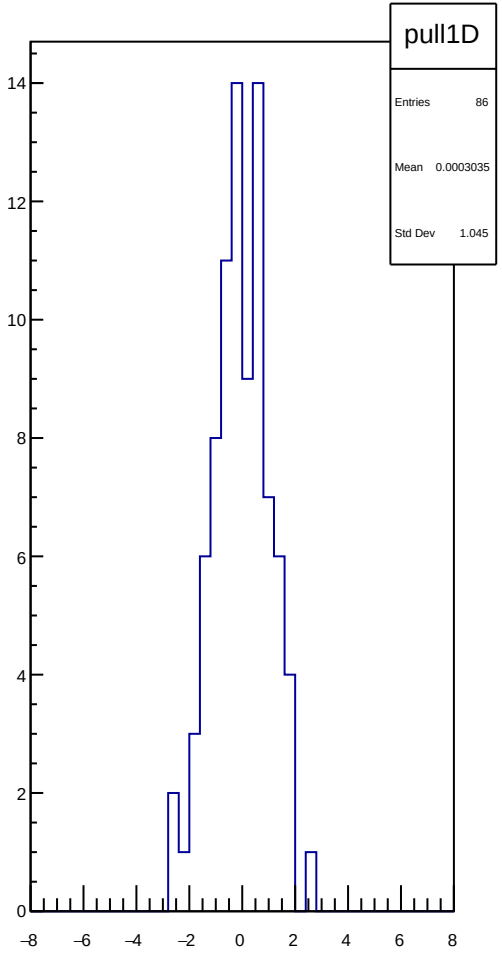

pull1D
Entries 86
Mean 0.0003035
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

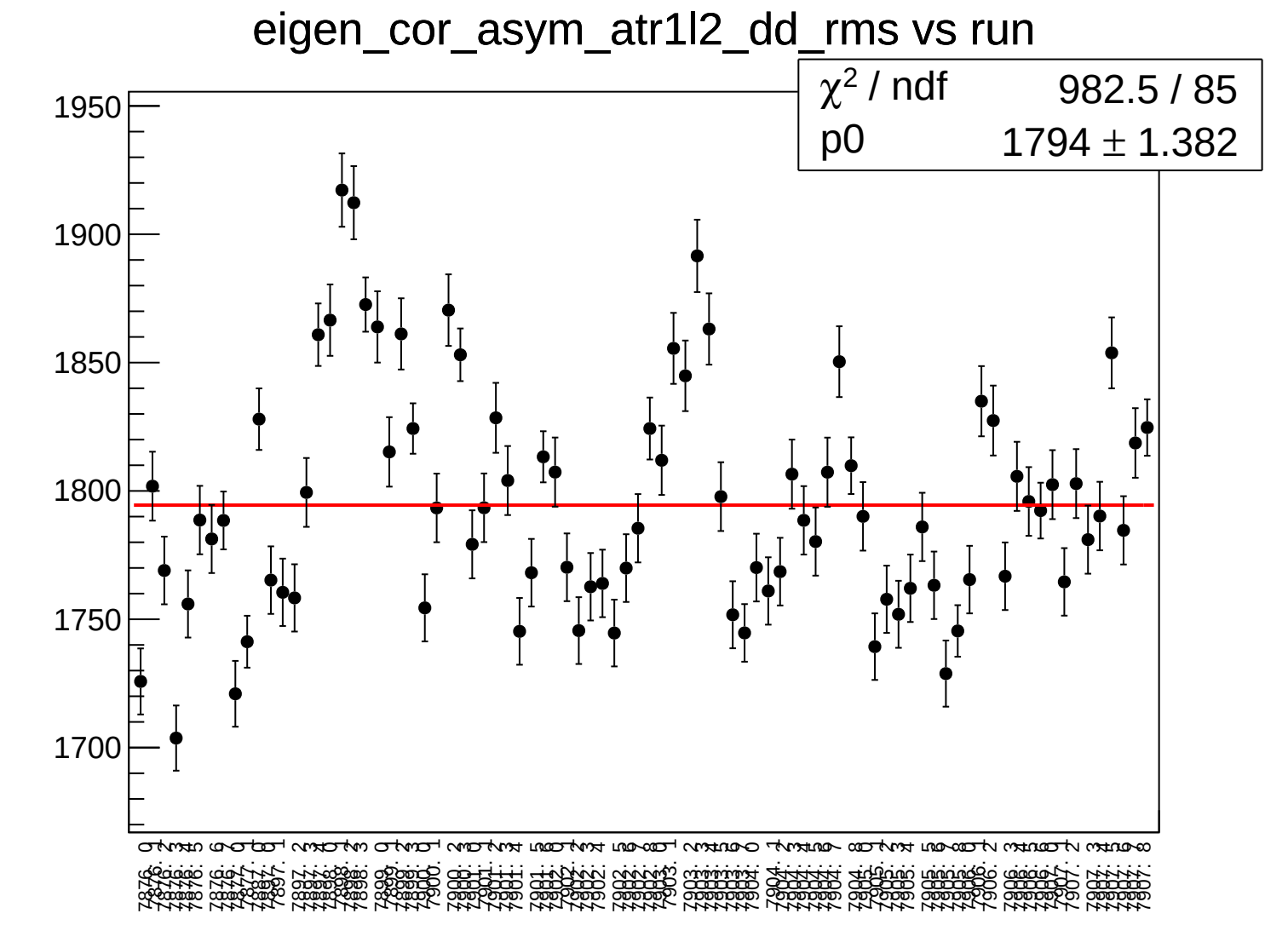

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 982.5 / 85
p0 1794 ± 1.382
1950
1900
1850
1800
1750
1700

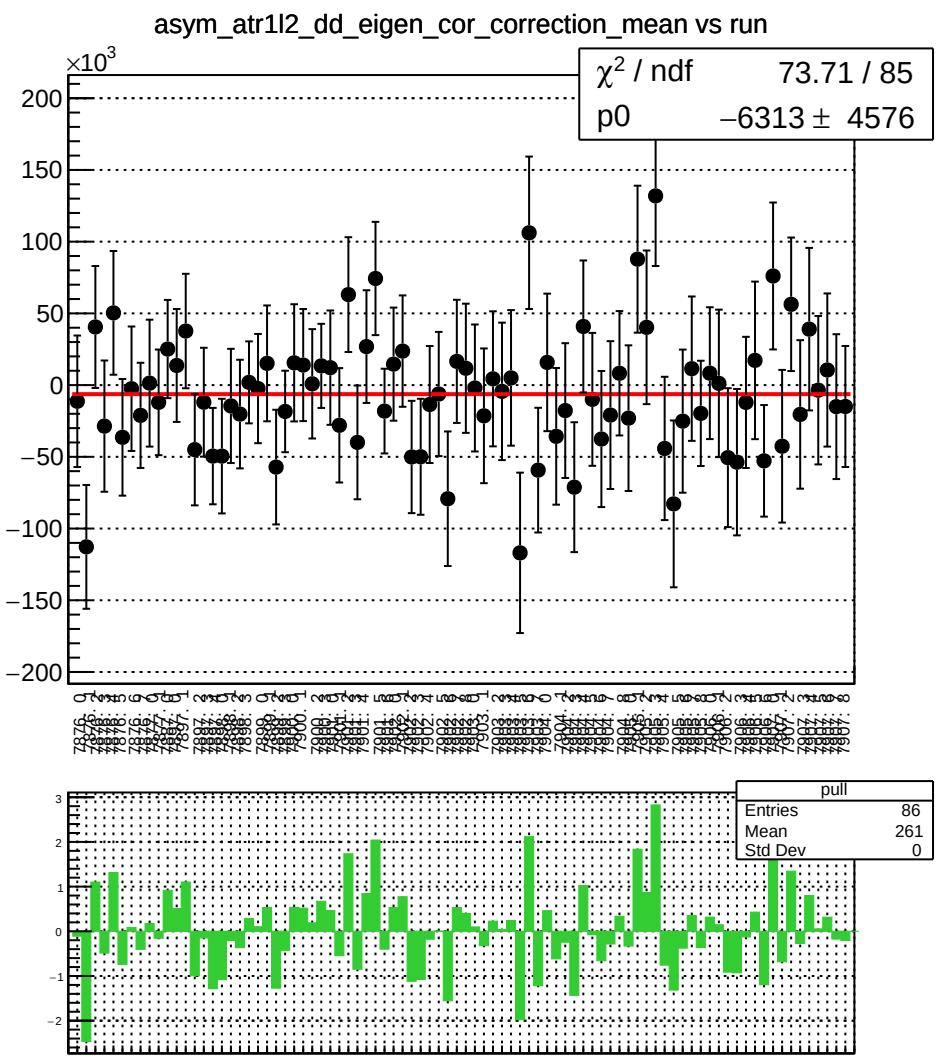

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 73.71 / 85
p0 −6313 ± 4576
pull
Entries 86
Mean 261
Std Dev 0
pull1D
Entries 86
Mean 0.005586
Std Dev 0.9258

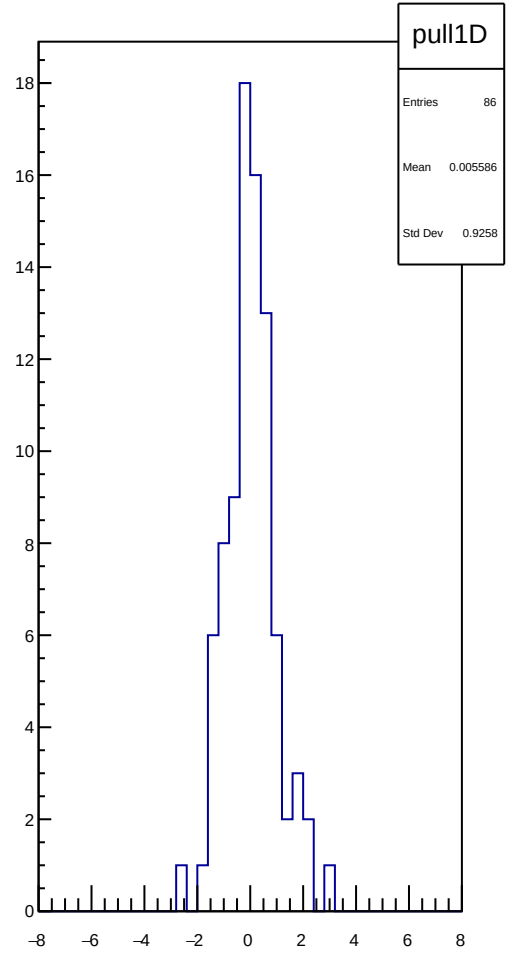

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2.309e+04 / 85
p0 4175 ± 3.236
5500
5000
4500
4000
3500

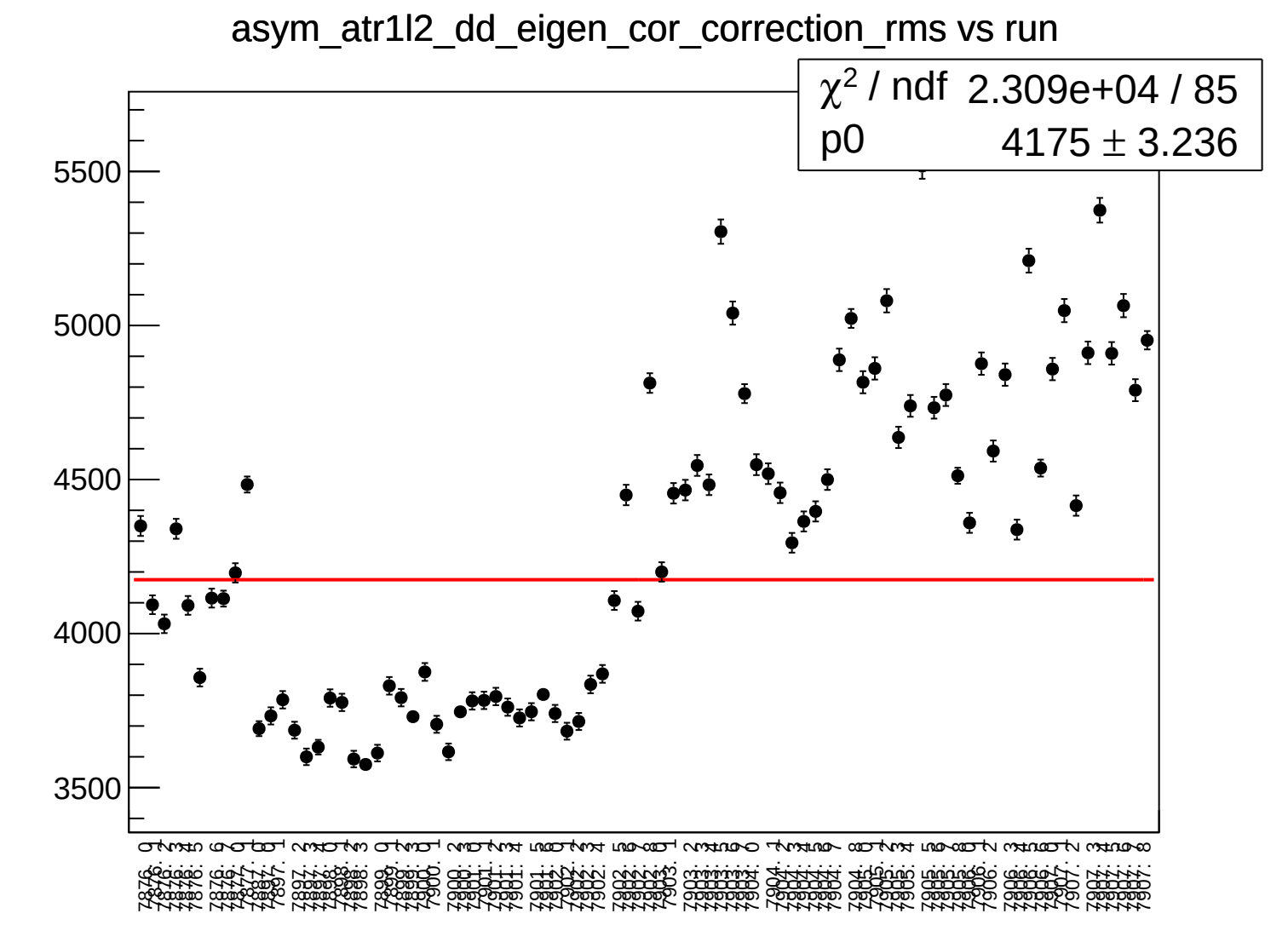

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 93.98 / 85
p0 −677 ± 1954
pull
Entries 86
Mean −1491
Std Dev 0

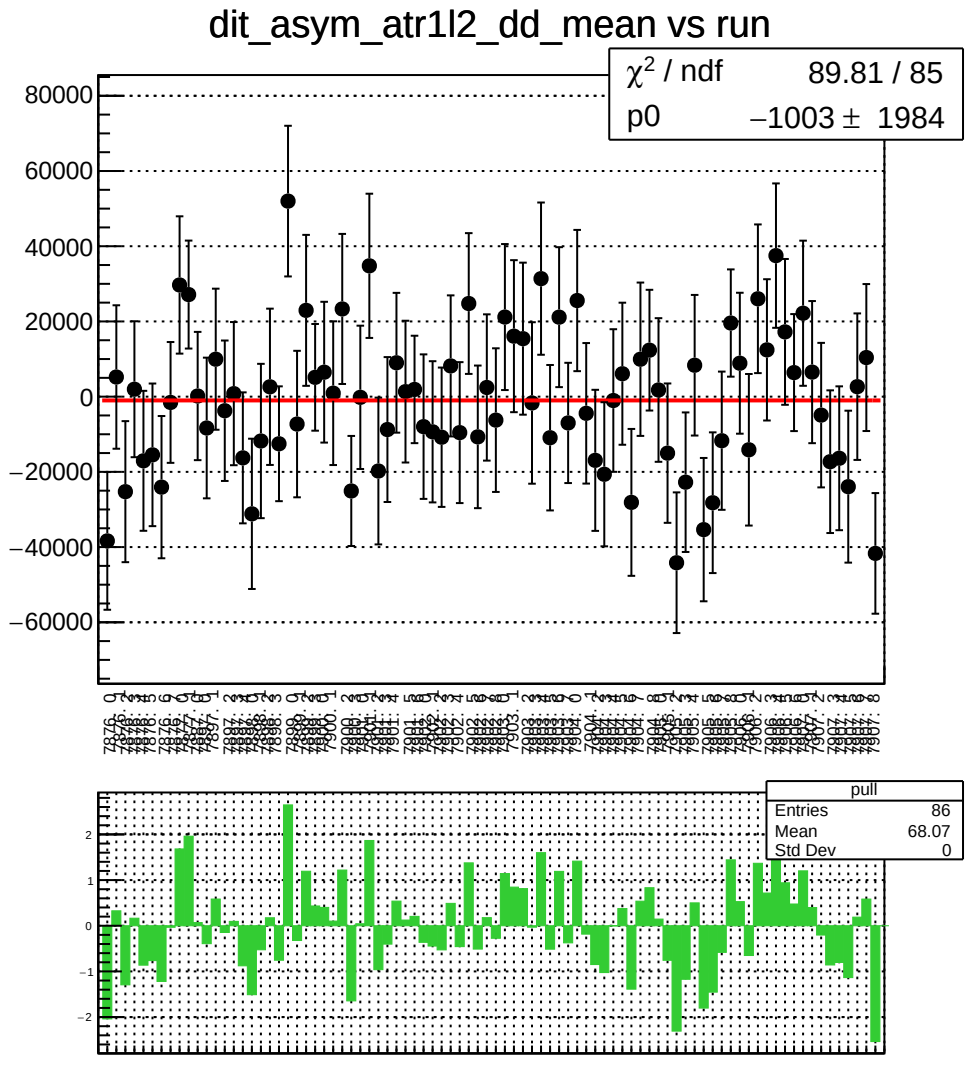

pull1D
Entries 86
Mean 0.0003035
Std Dev 1.045

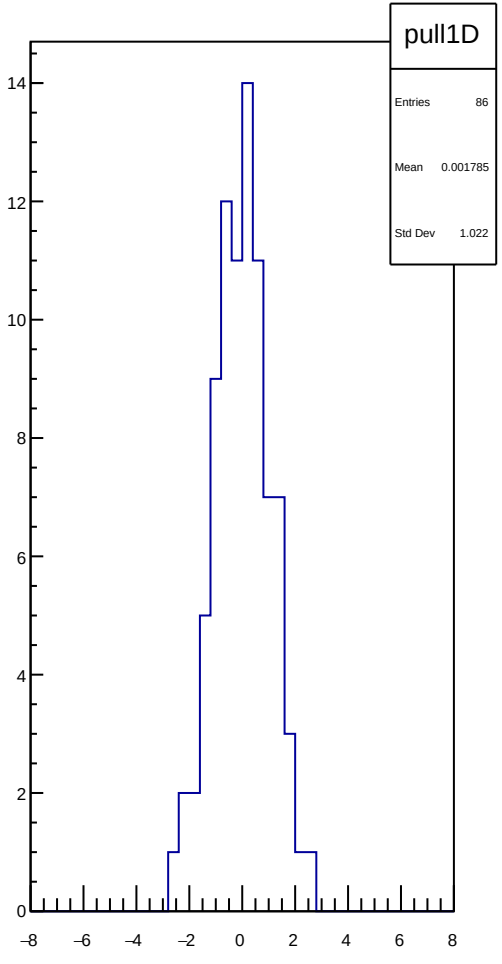

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 982.5 / 85
p0 1794 ± 1.382
1950
1900
1850
1800
1750
1700

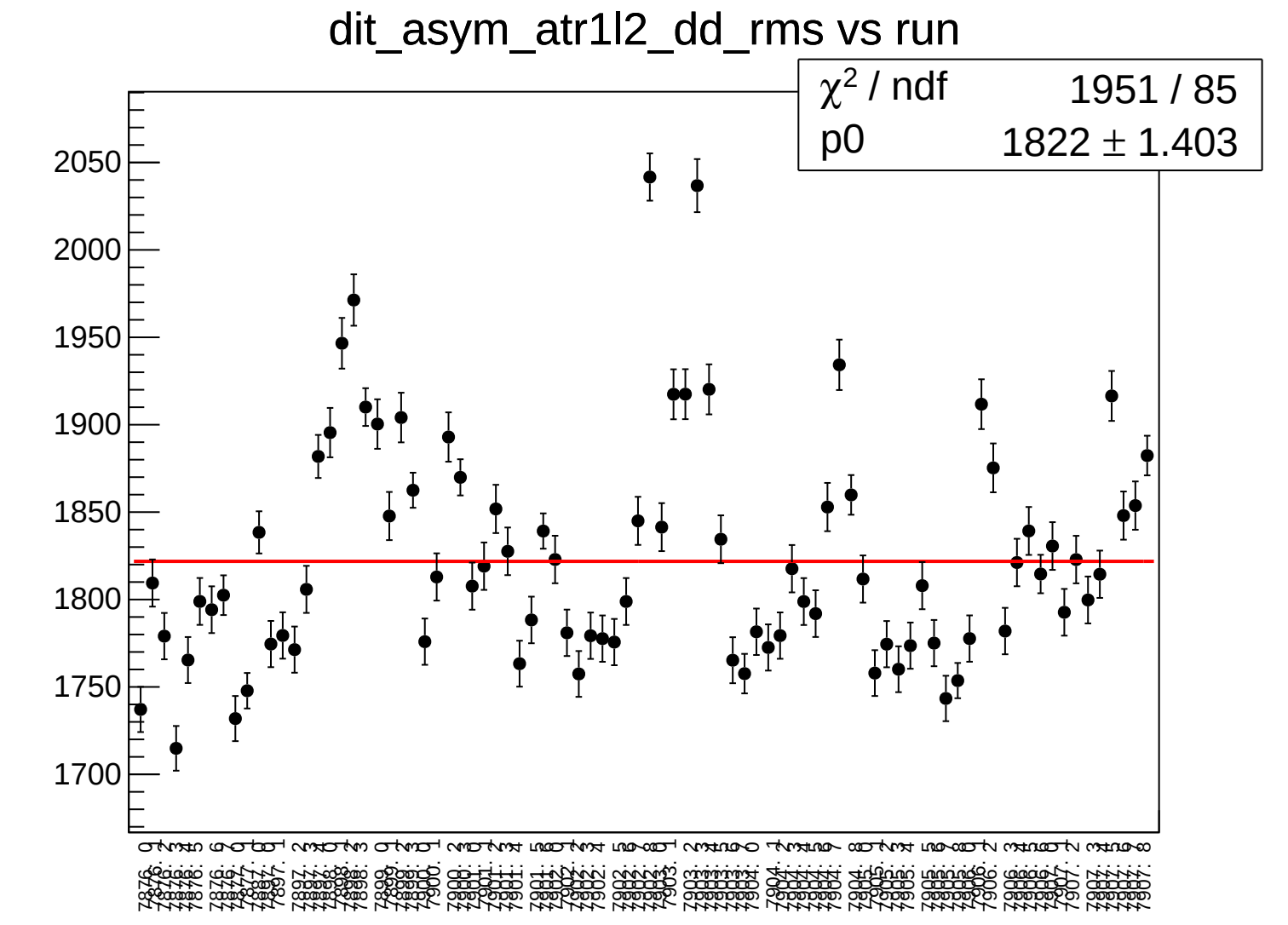

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 73.71 / 85
p0 −6313 ± 4576
pull
Entries 86
Mean 261
Std Dev 0

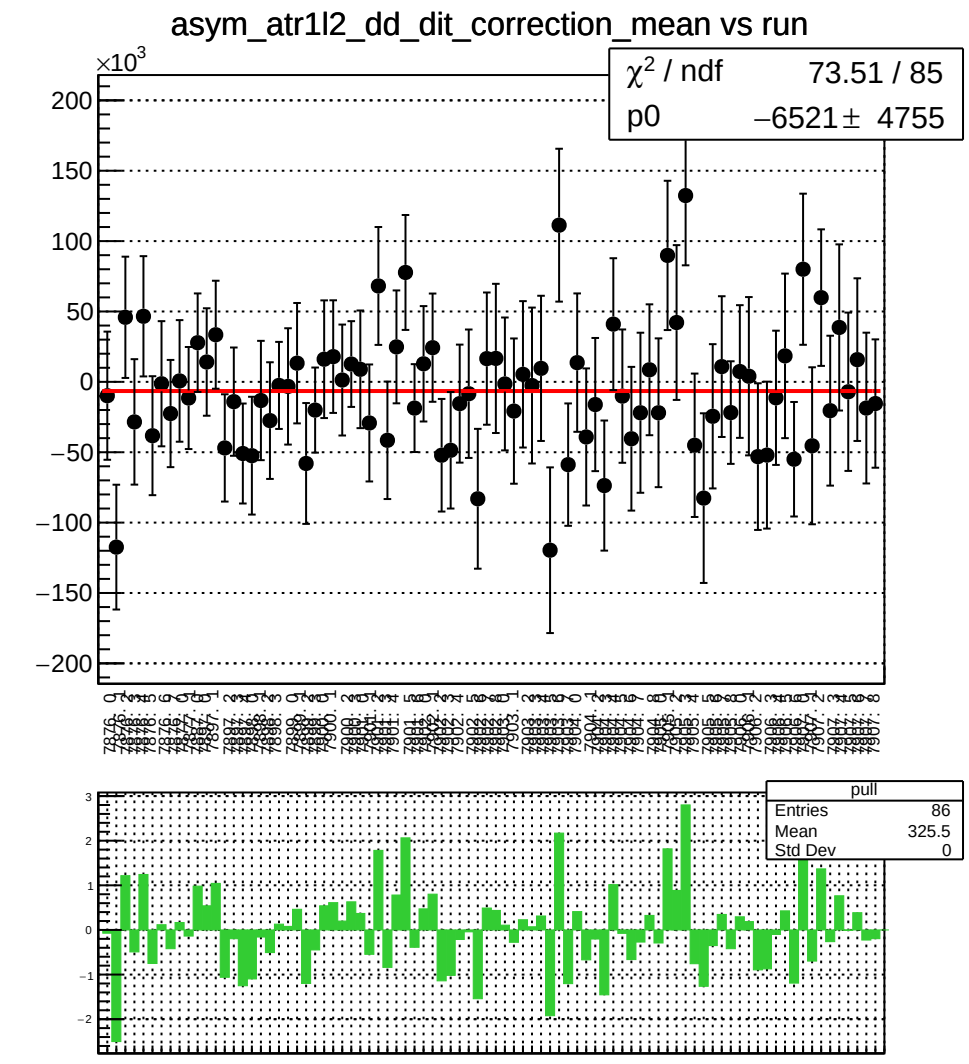

pull1D
Entries 86
Mean 0.005586
Std Dev 0.9258

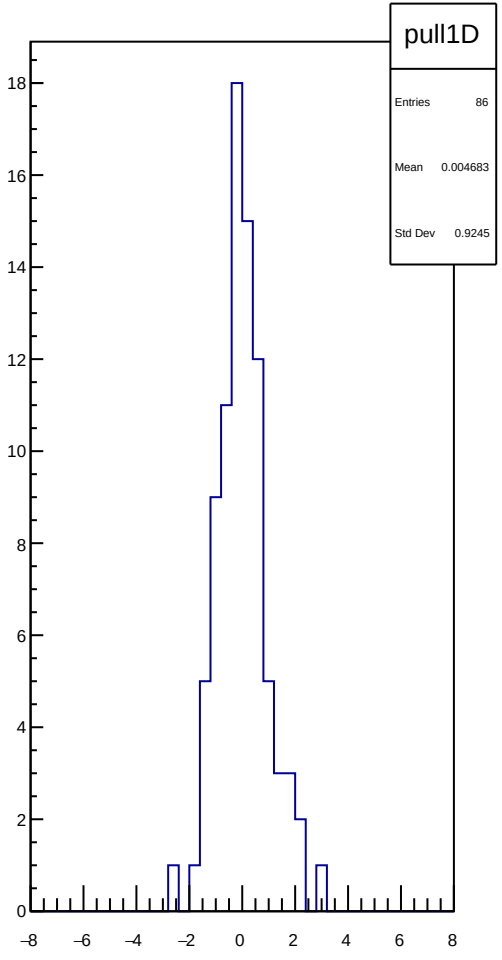

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.309e+04 / 85
p0 4175 ± 3.236
5500
5000
4500
4000
3500

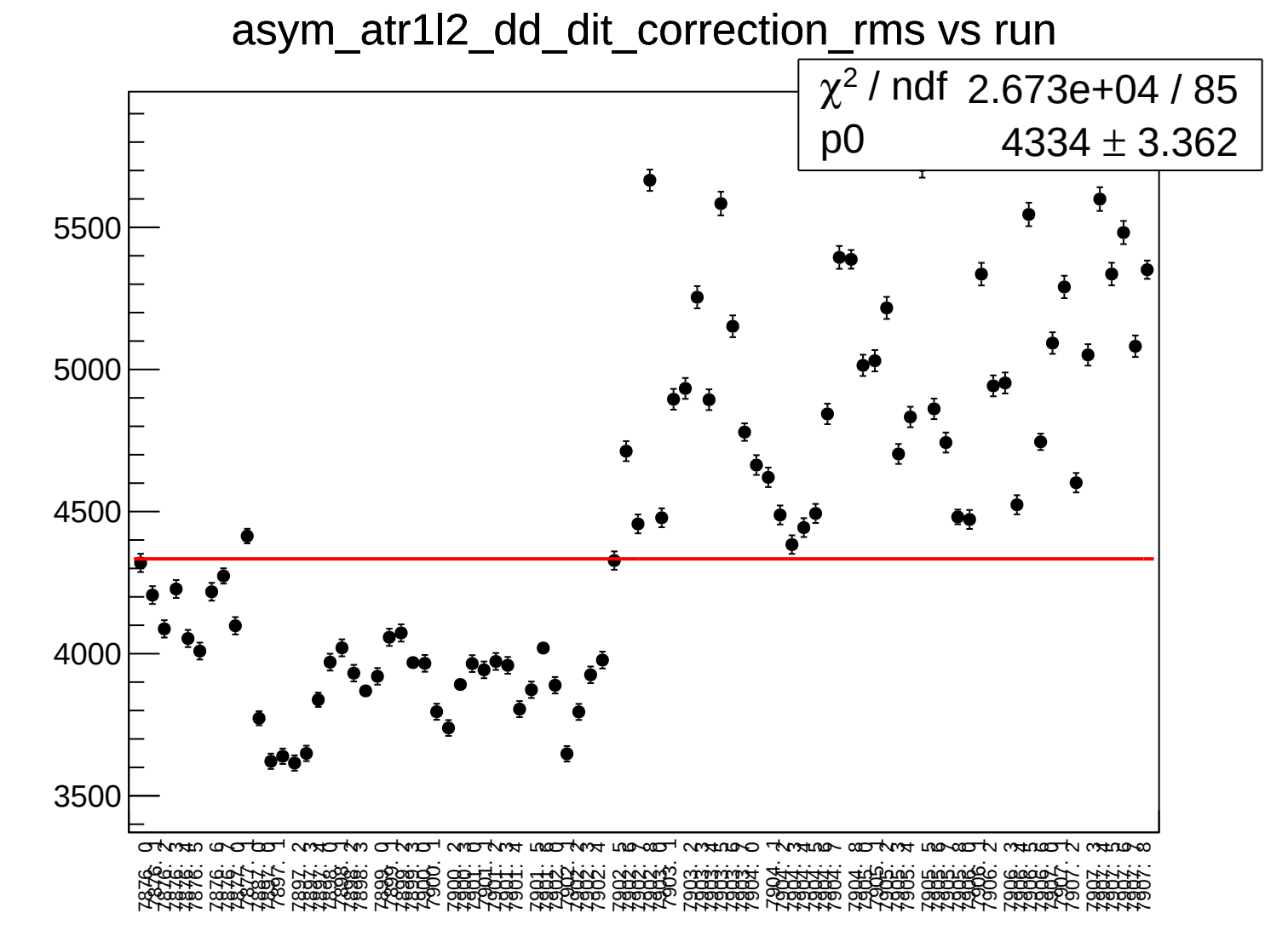

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 89.81 / 85
p0 −1003 ± 1984
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 68.07
Std Dev 0
2
1
0
−1
−2

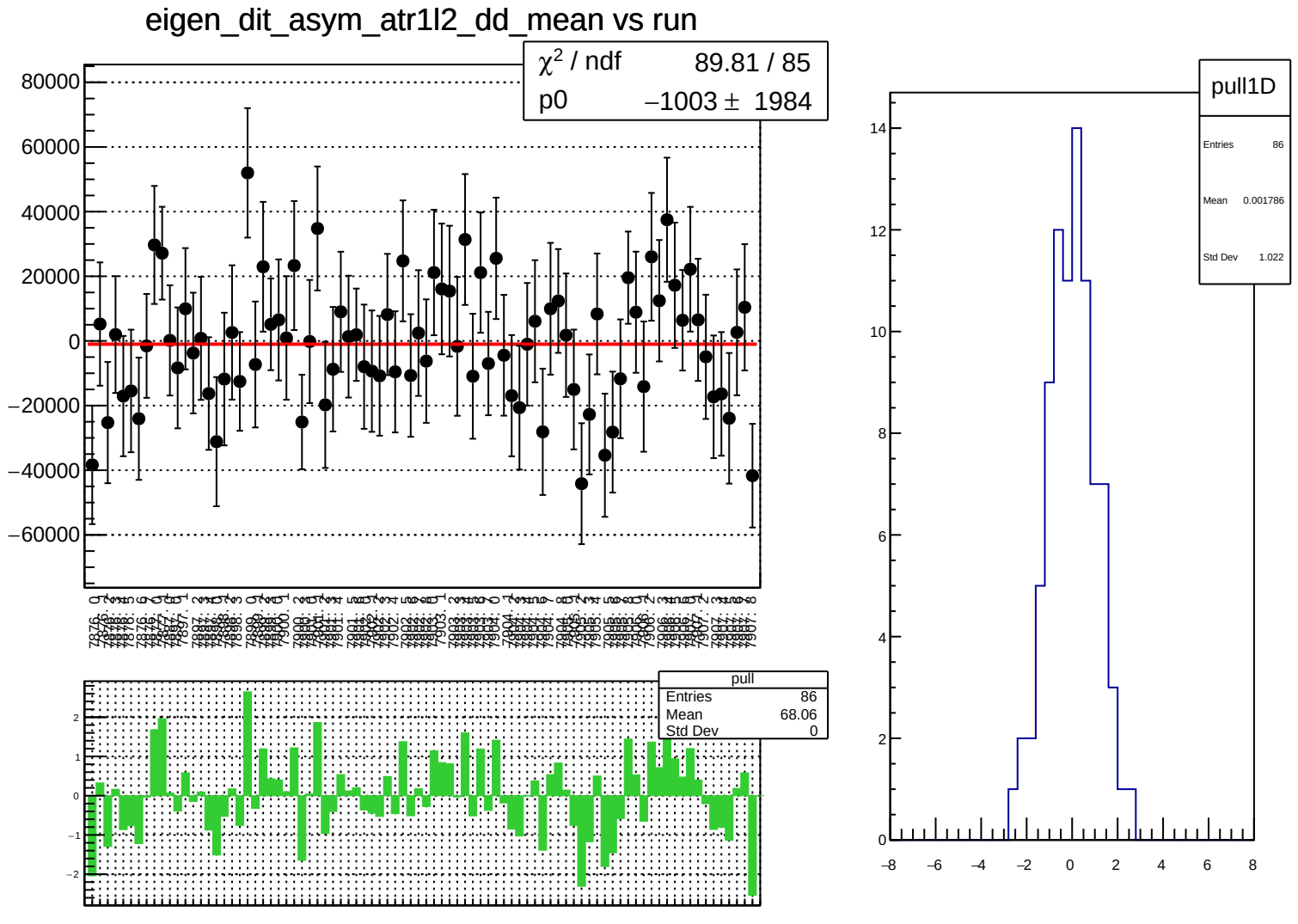

pull1D
Entries 86
Mean 0.001785
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

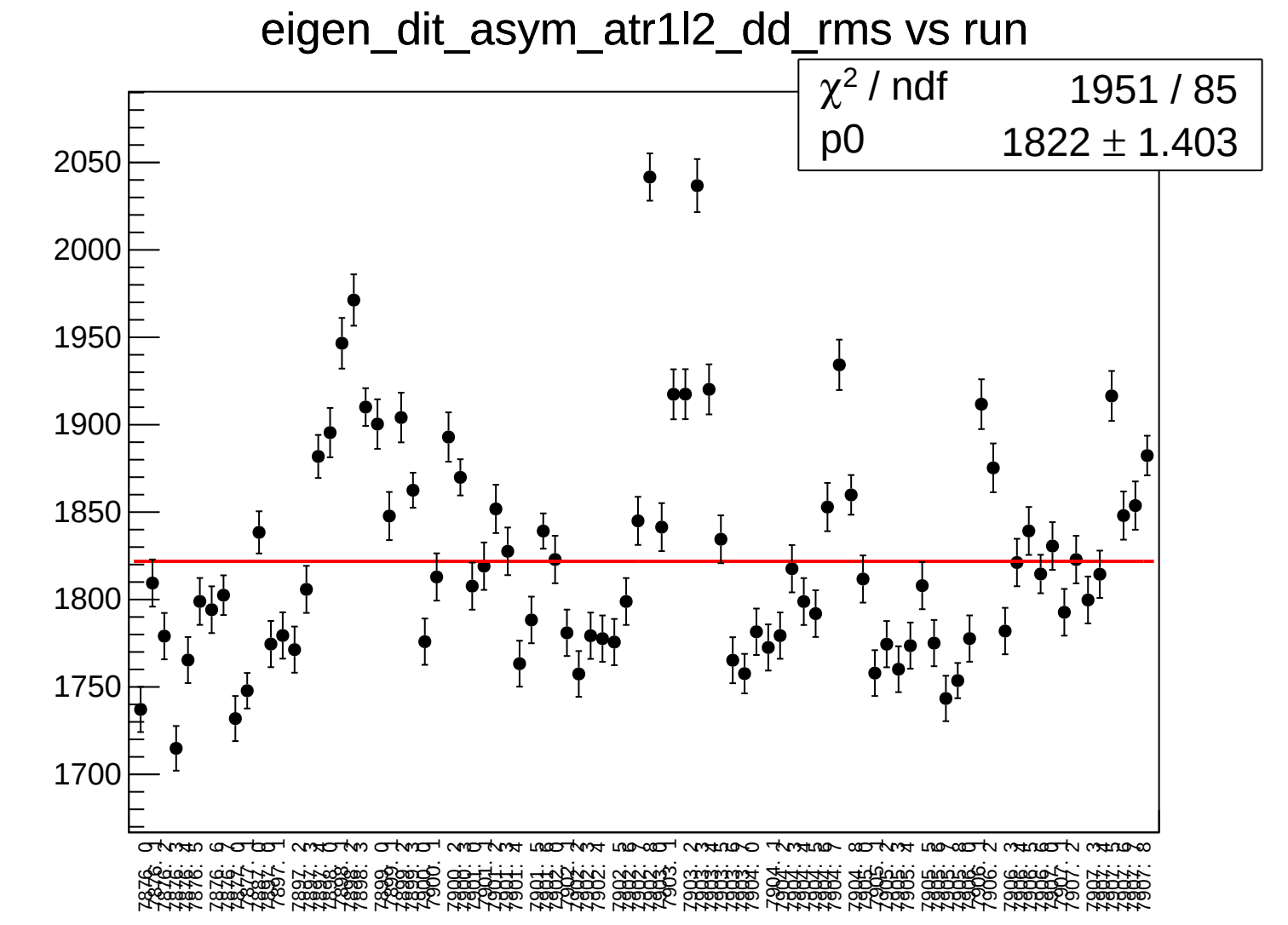

dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 1951 / 85
p0 1822 ± 1.403
2050
2000
1950
1900
1850
1800
1750
1700

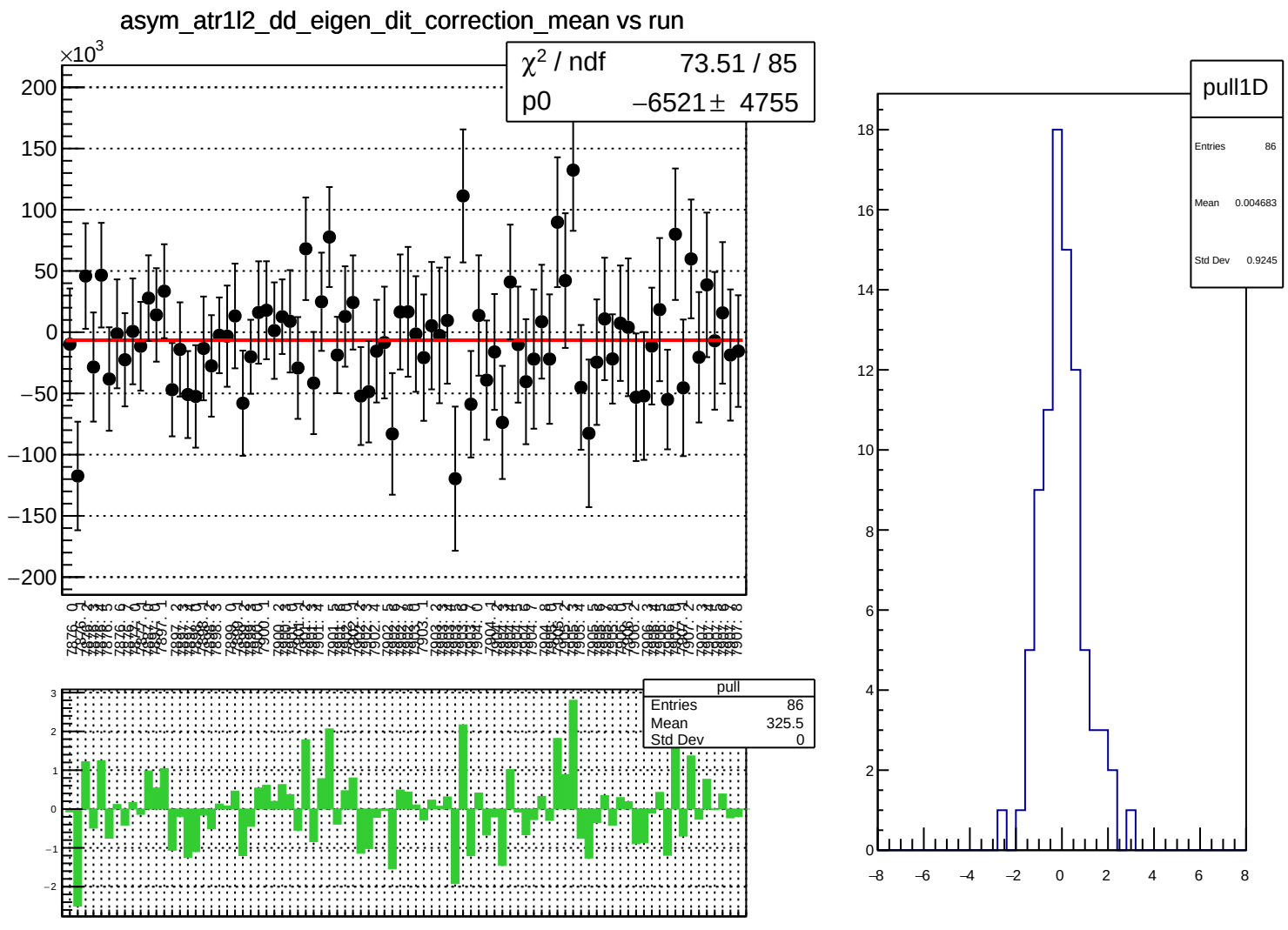

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 73.51 / 85
p0 −6521 ± 4755
pull
Entries 86
Mean 325.5
Std Dev 0

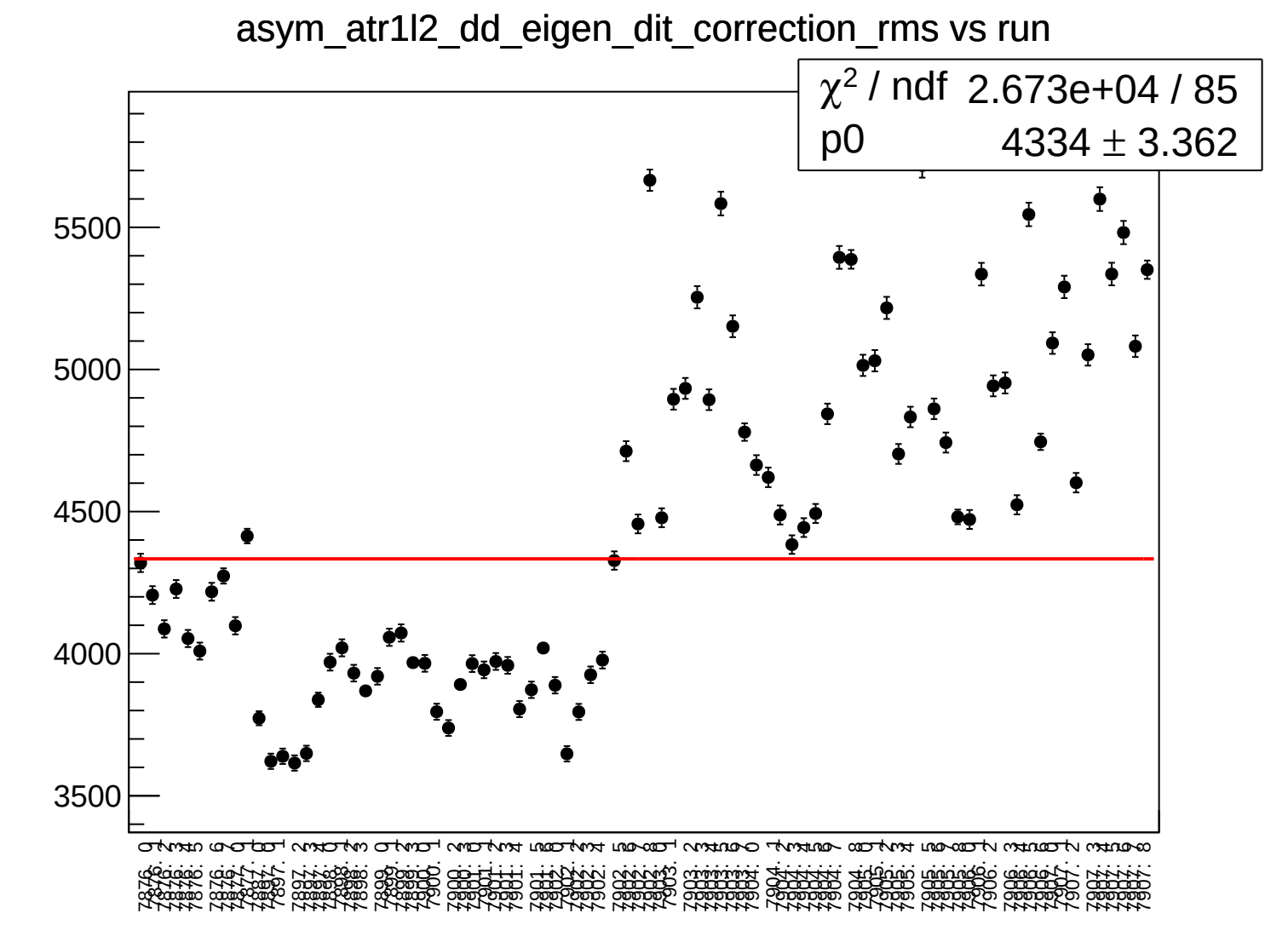

pull1D
Entries 86
Mean 0.004683
Std Dev 0.9245

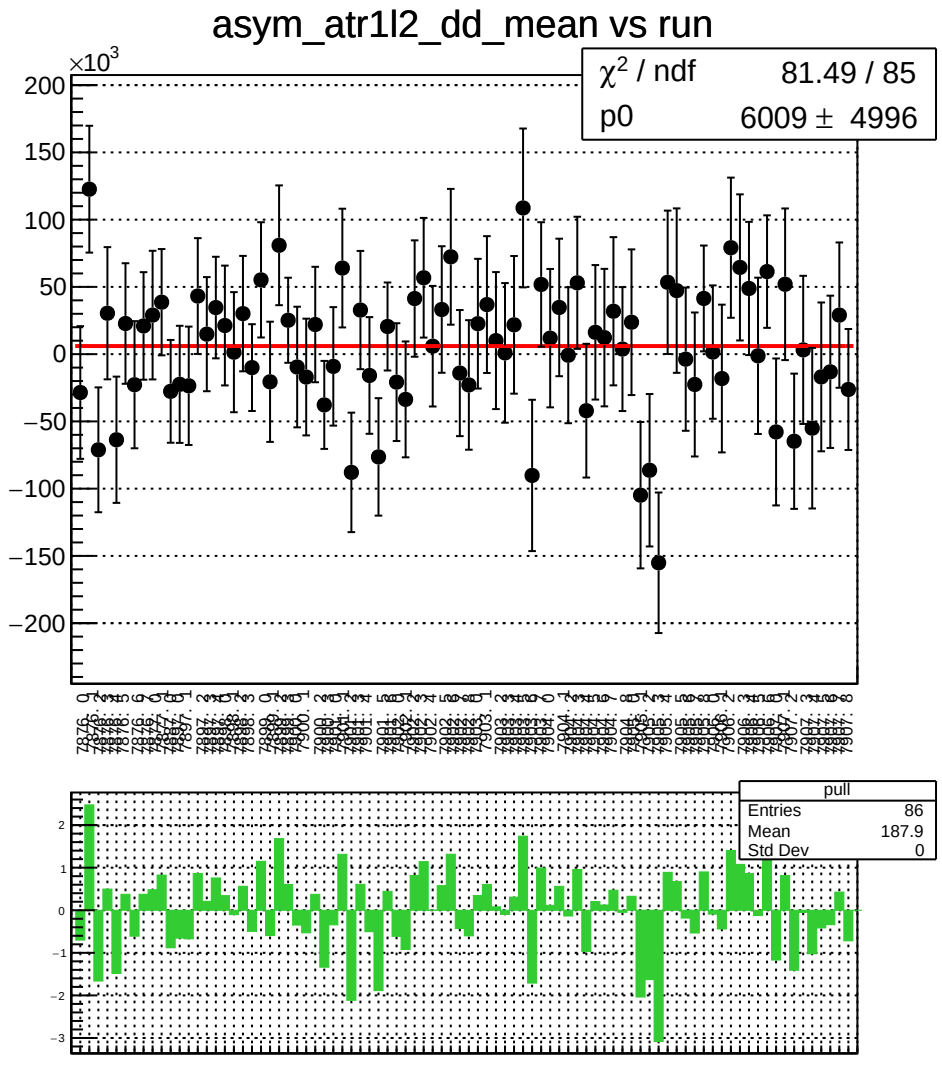

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2.673e+04 / 85
p0 4334 ± 3.362
5500
5000
4500
4000
3500

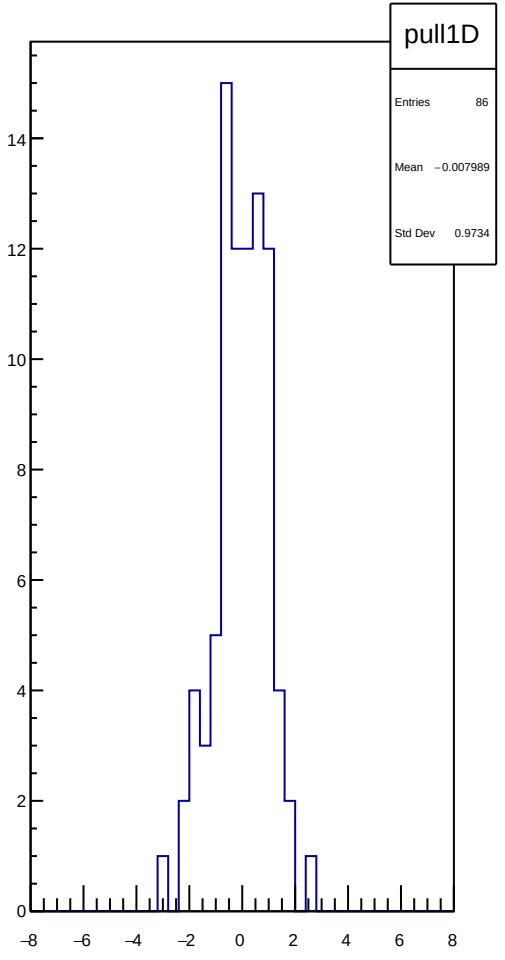

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 89.81 / 85
p0 −1003 ± 1984
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 68.06
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.001786
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

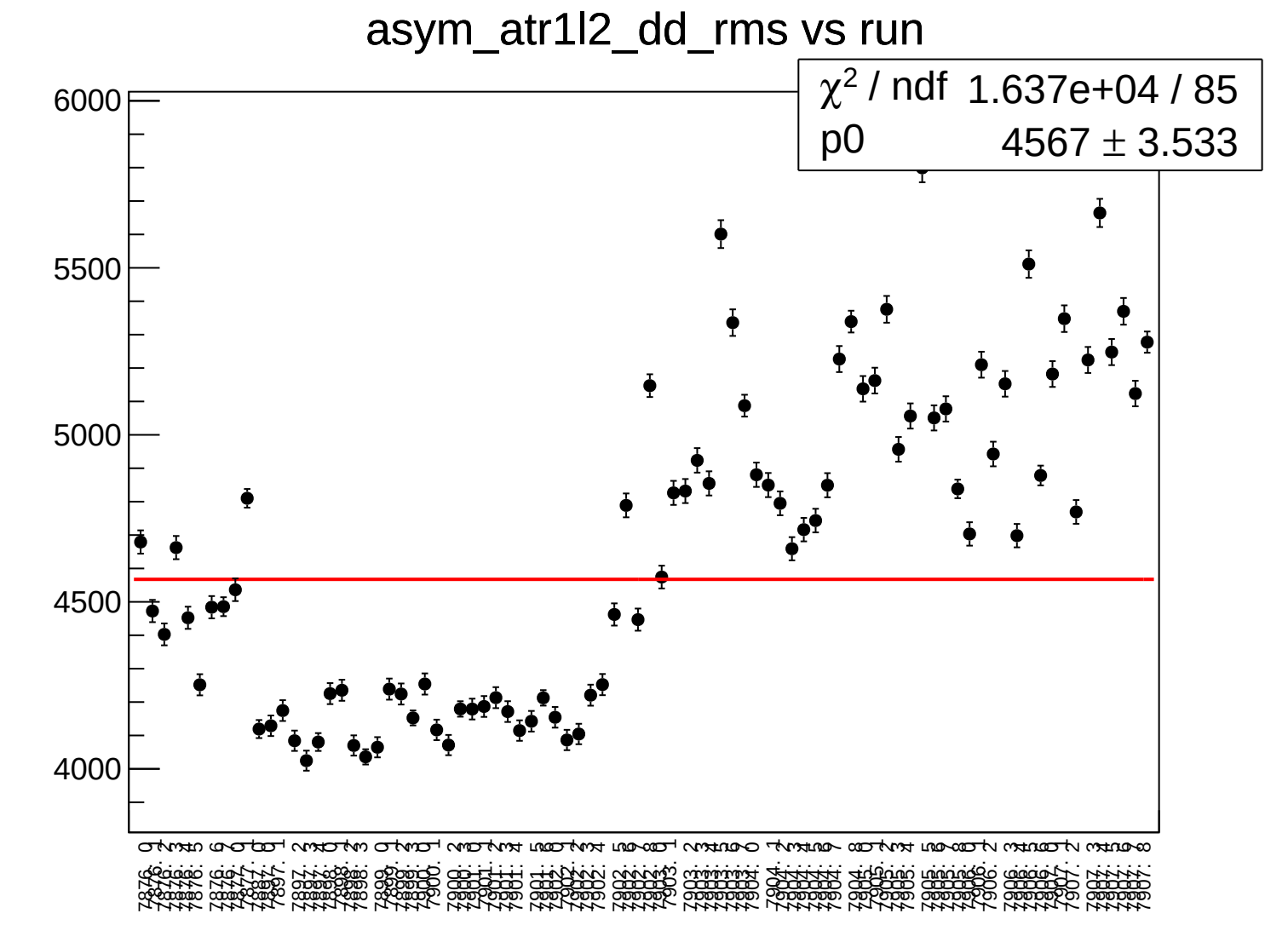

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 1951 / 85
p0 1822 ± 1.403
2050
2000
1950
1900
1850
1800
1750
1700

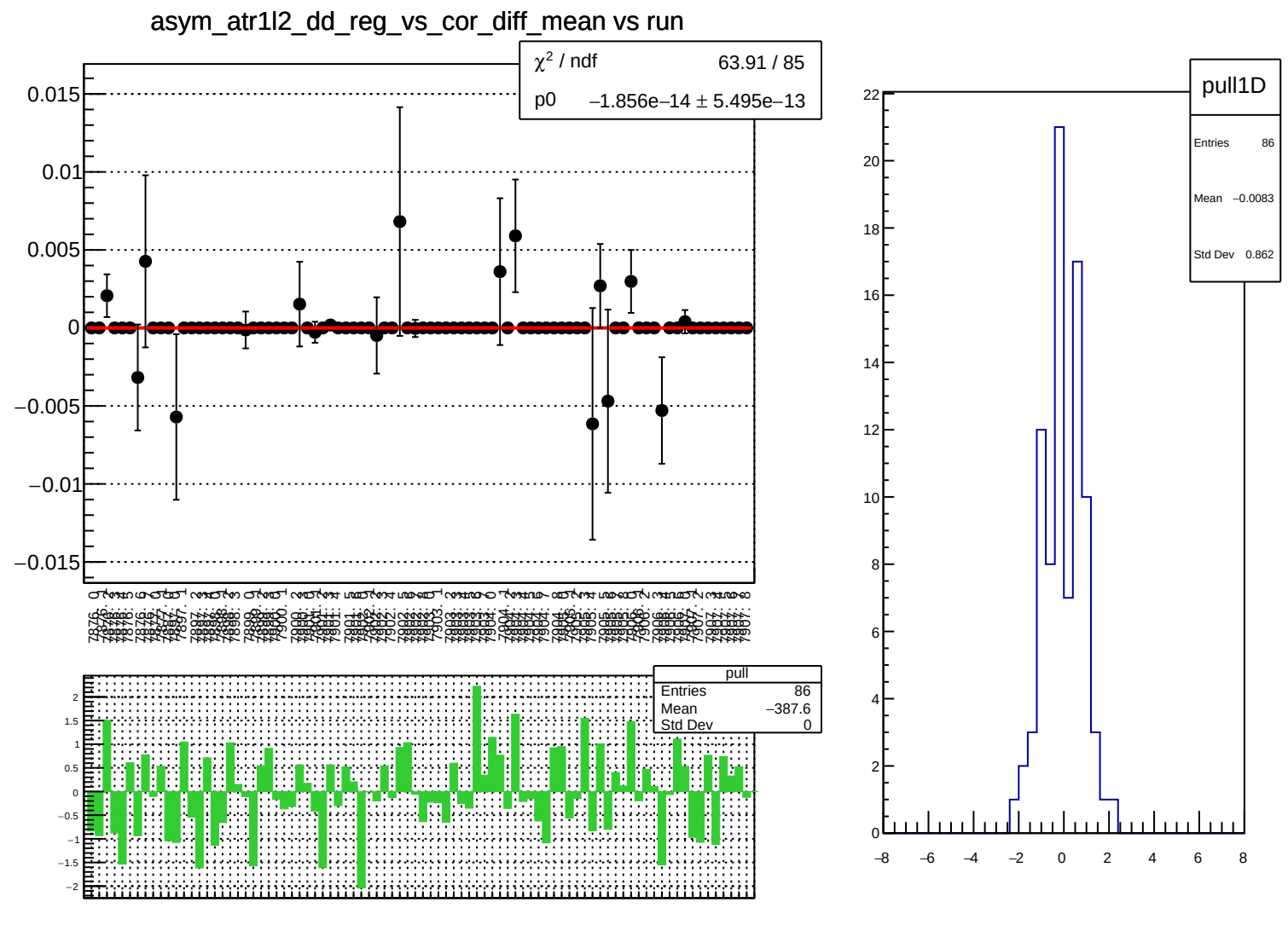

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.51 / 85
p0 −6521 ± 4755
pull
Entries 86
Mean 325.5
Std Dev 0
pull1D
Entries 86
Mean 0.004683
Std Dev 0.9245

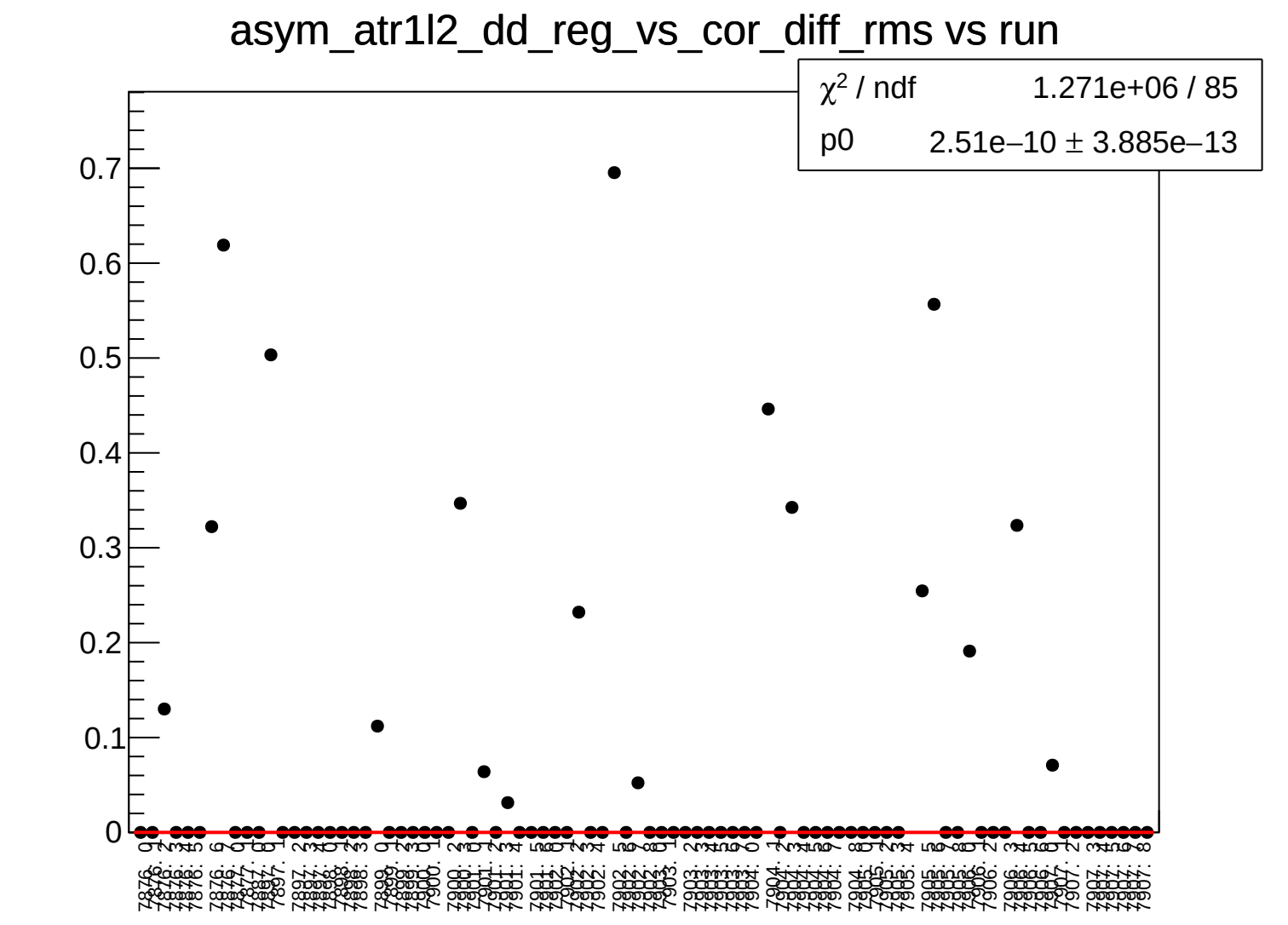

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.673e+04 / 85
p0 4334 ± 3.362
5500
5000
4500
4000
3500

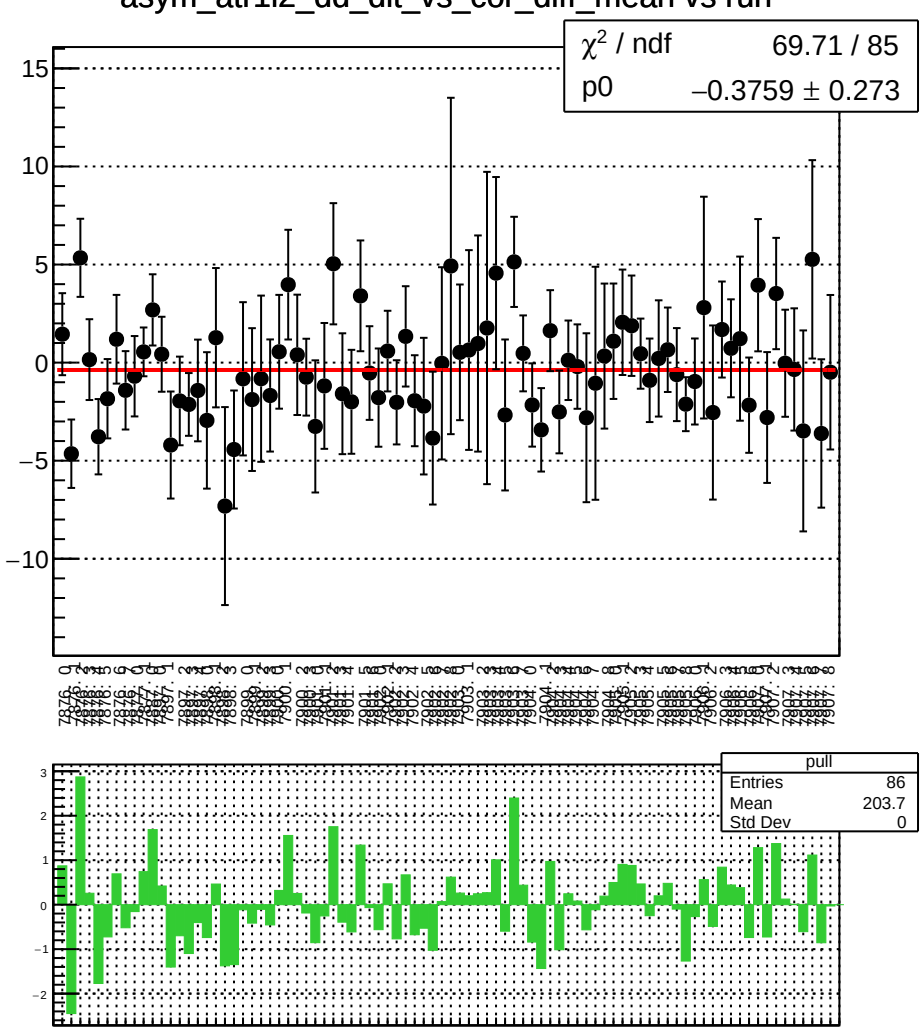

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 81.49 / 85
p0 6009 ± 4996
pull
Entries 86
Mean 187.9
Std Dev 0

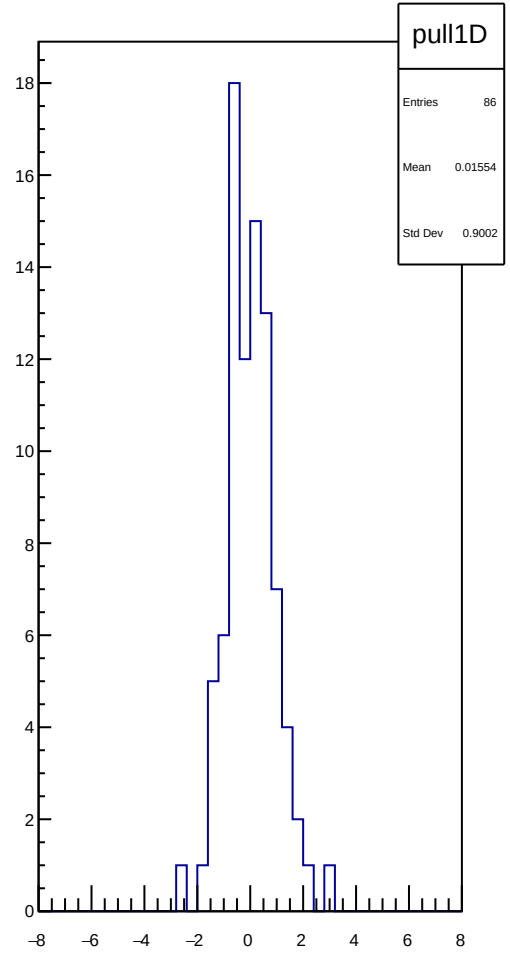

pull1D
Entries 86
Mean −0.007989
Std Dev 0.9734

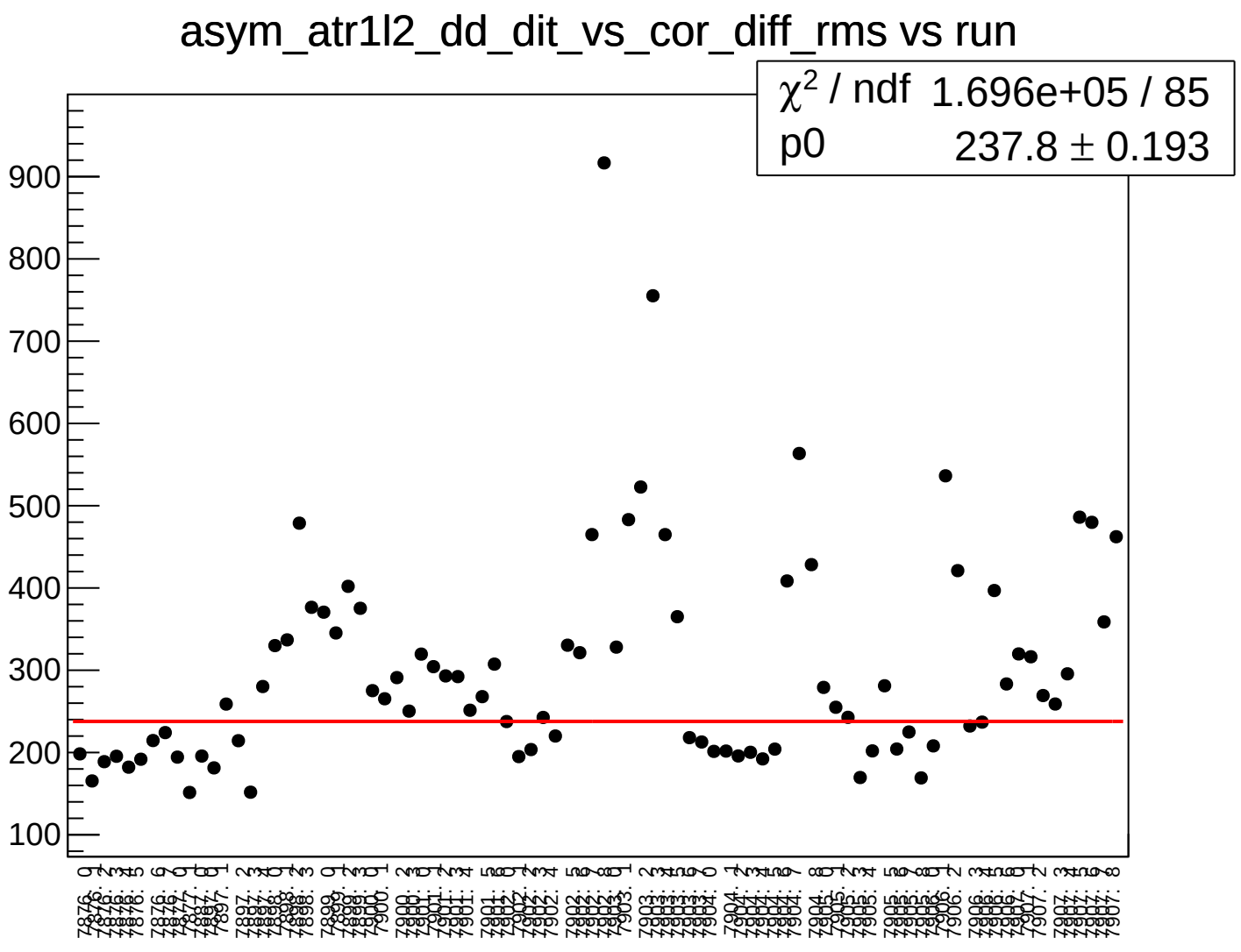

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1.637e+04 / 85
p0 4567 ± 3.533
6000
5500
5000
4500
4000

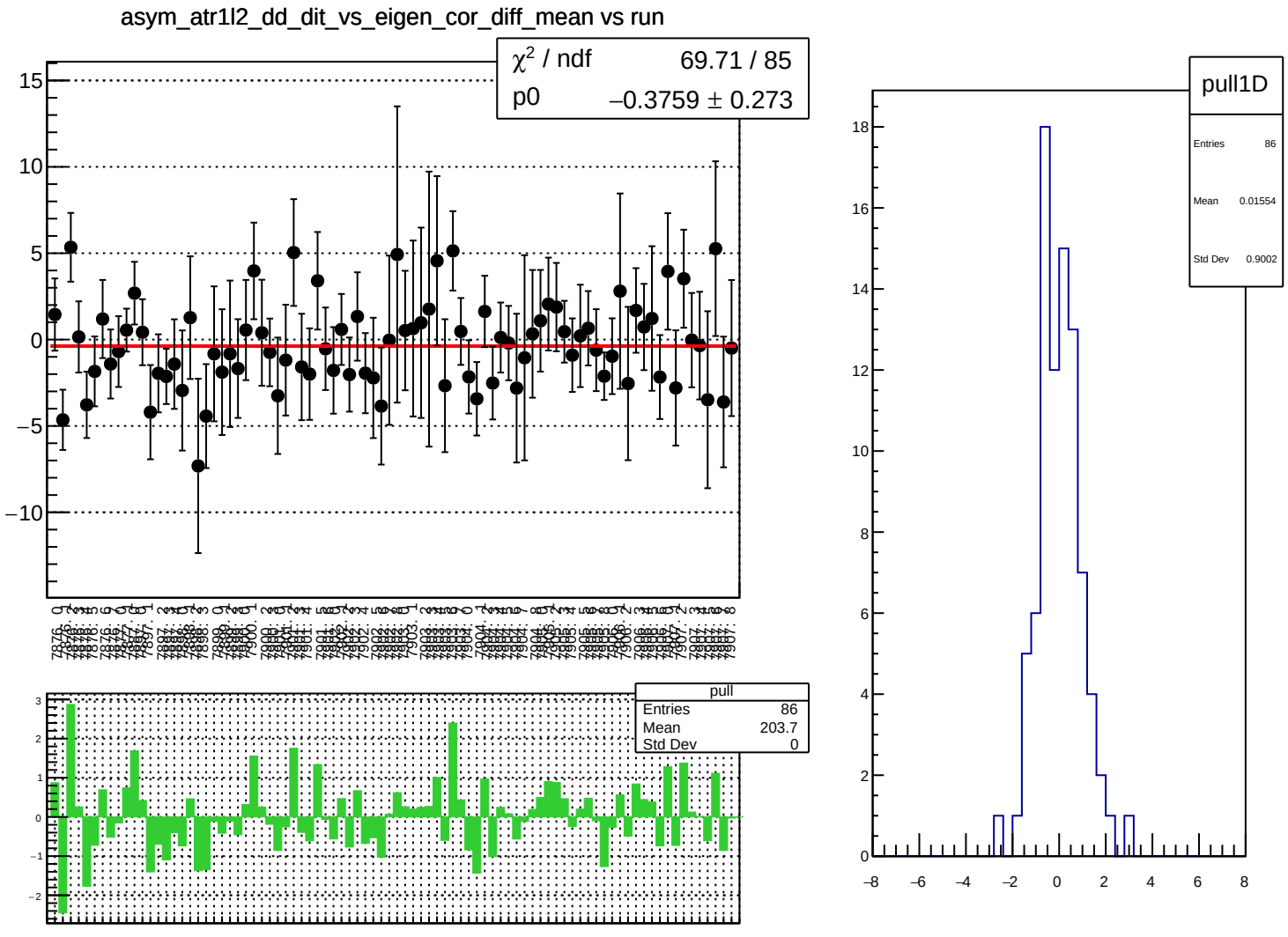

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 63.91 / 85
p0 −1.856e−14 ± 5.495e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean −387.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.0083
Std Dev 0.862
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

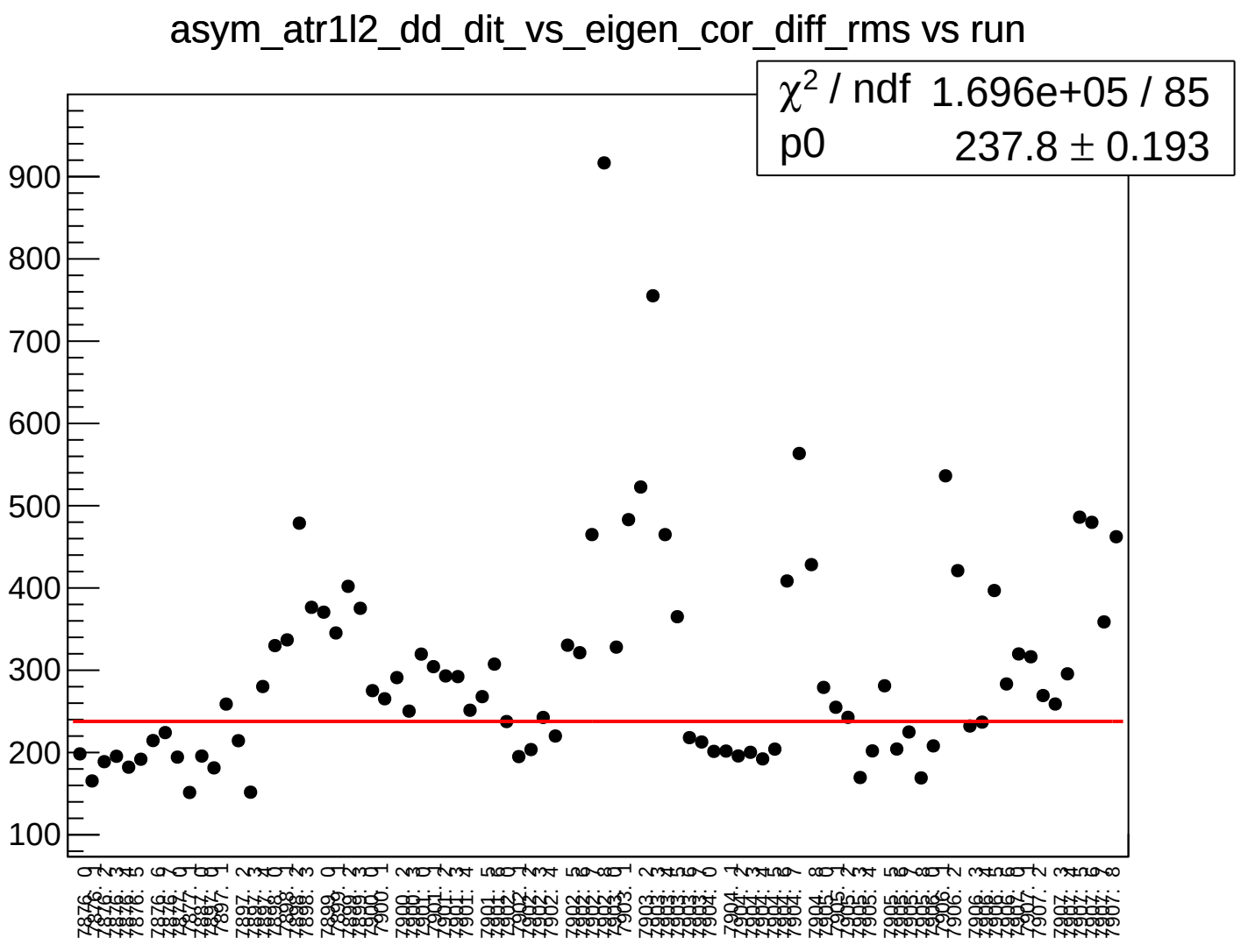

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.271e+06 / 85
p0 2.51e−10 ± 3.885e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

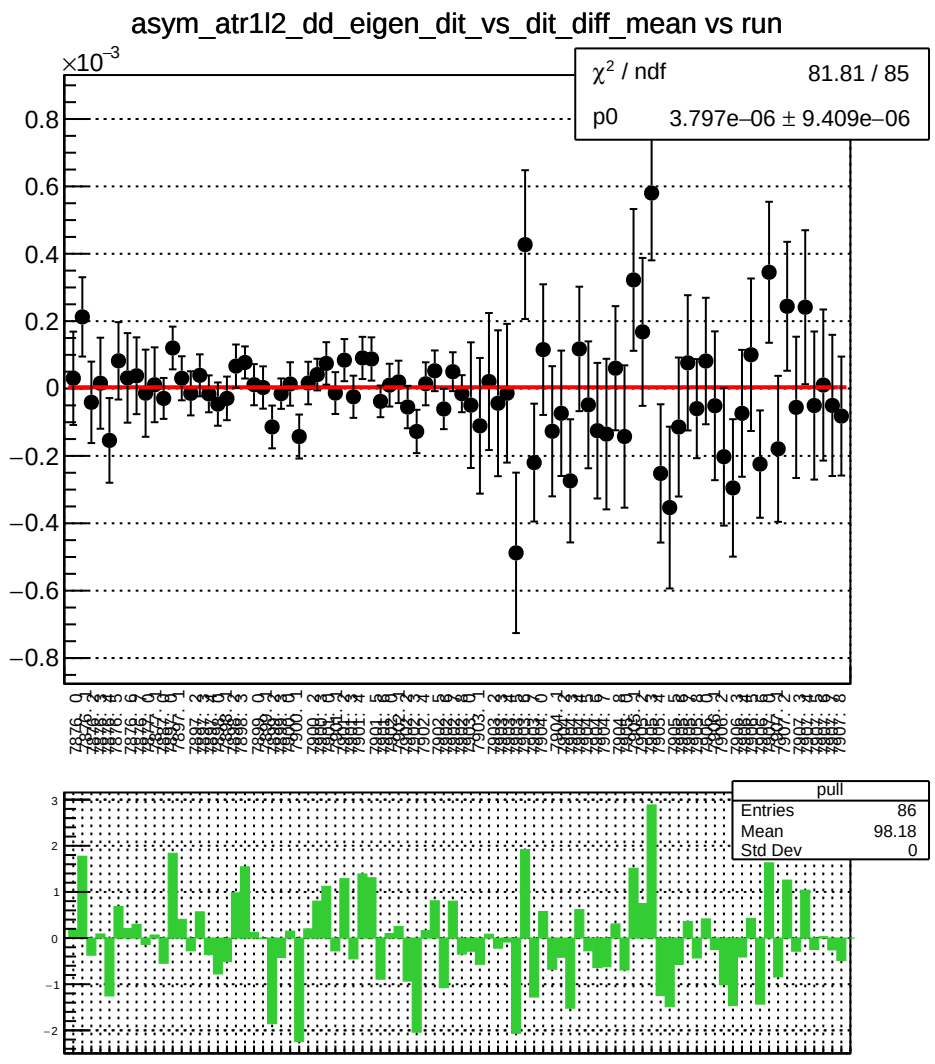

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.71 / 85
p0 −0.3759 ± 0.273
pull
Entries 86
Mean 203.7
Std Dev 0

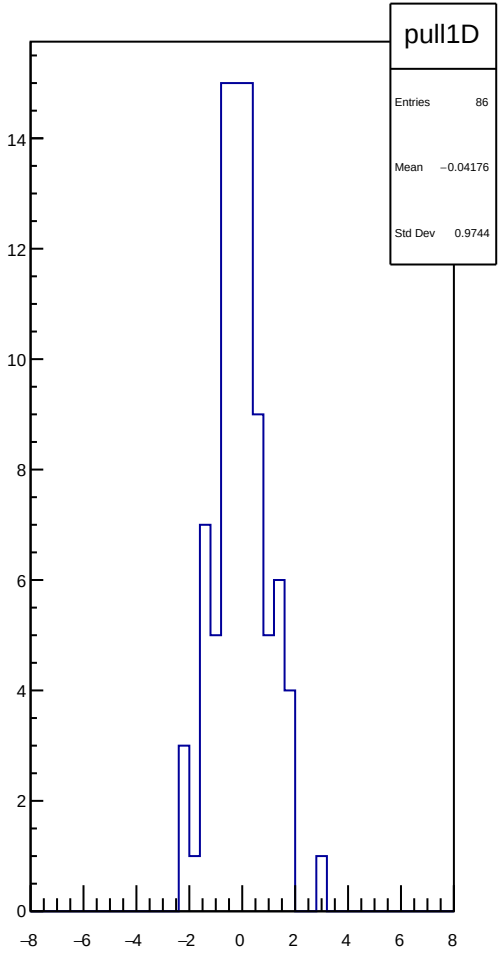

pull1D
Entries 86
Mean 0.01554
Std Dev 0.9002

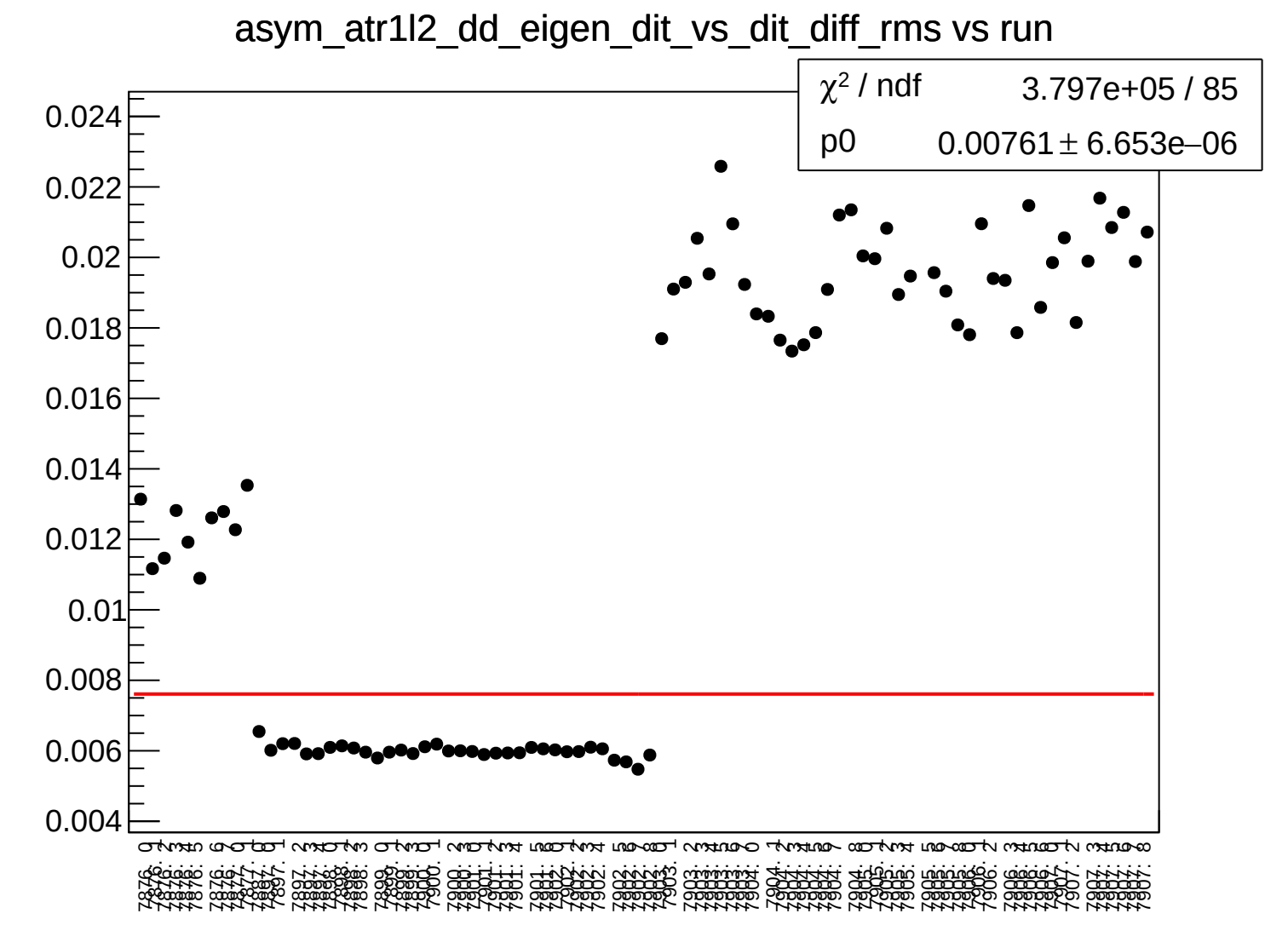

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.696e+05 / 85
p0 237.8 ± 0.193
900
800
700
600
500
400
300
200
100

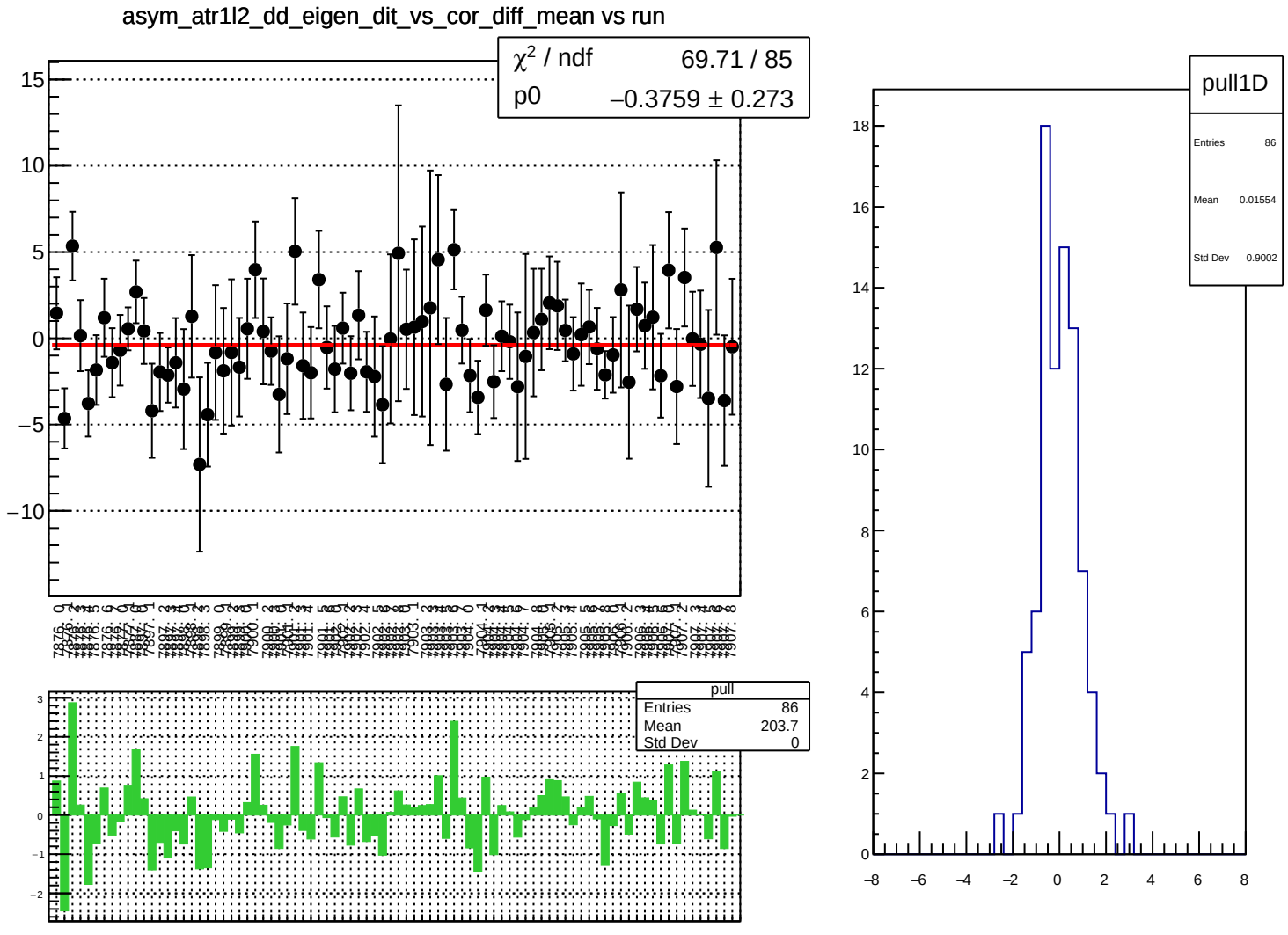

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.71 / 85
p0 −0.3759 ± 0.273
pull
Entries 86
Mean 203.7
Std Dev 0
pull1D
Entries 86
Mean 0.01554
Std Dev 0.9002

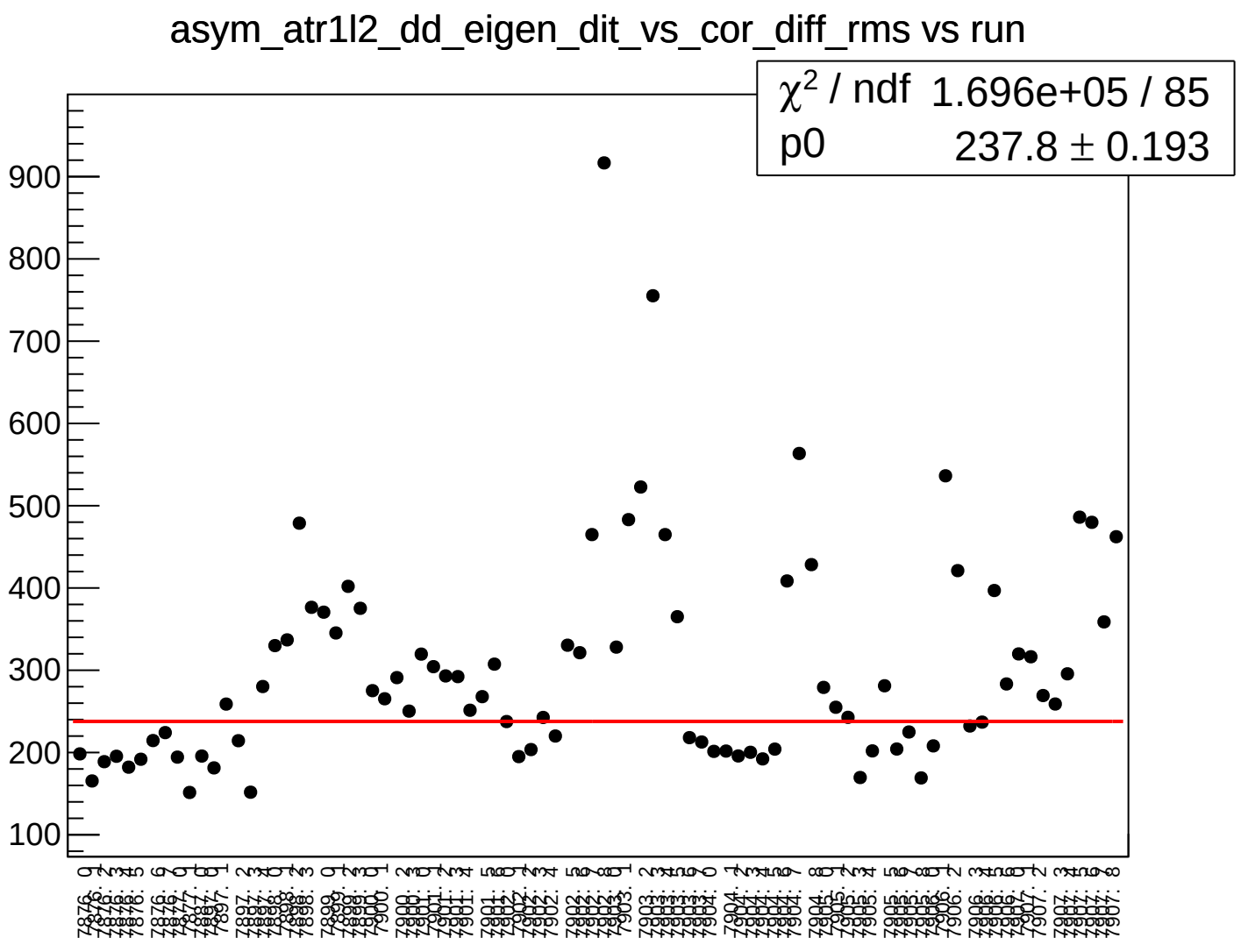

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.696e+05 / 85
p0 237.8 ± 0.193
900
800
700
600
500
400
300
200
100

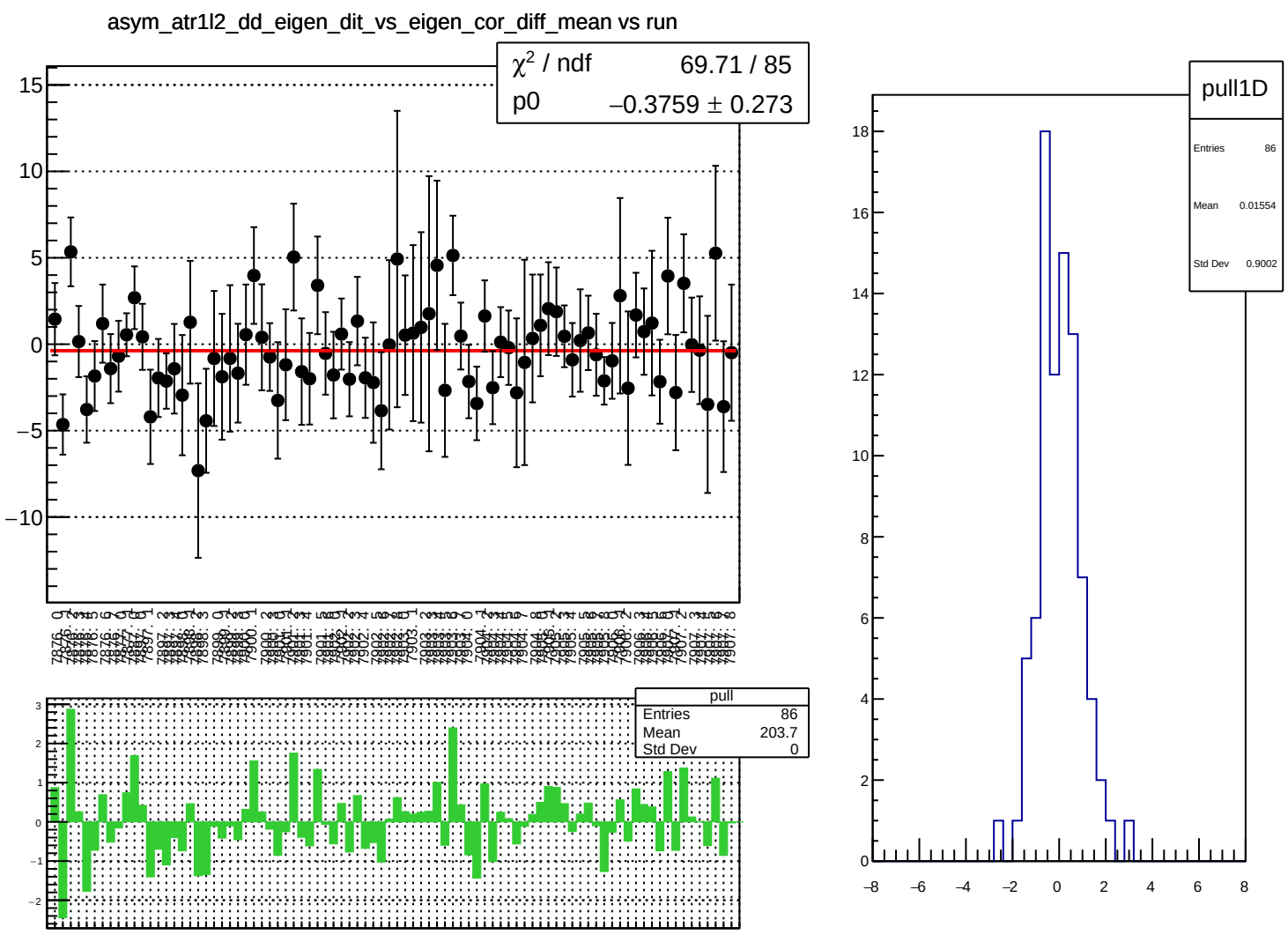

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.81 / 85
p0 3.797e−06 ± 9.409e−06
pull
Entries 86
Mean 98.18
Std Dev 0

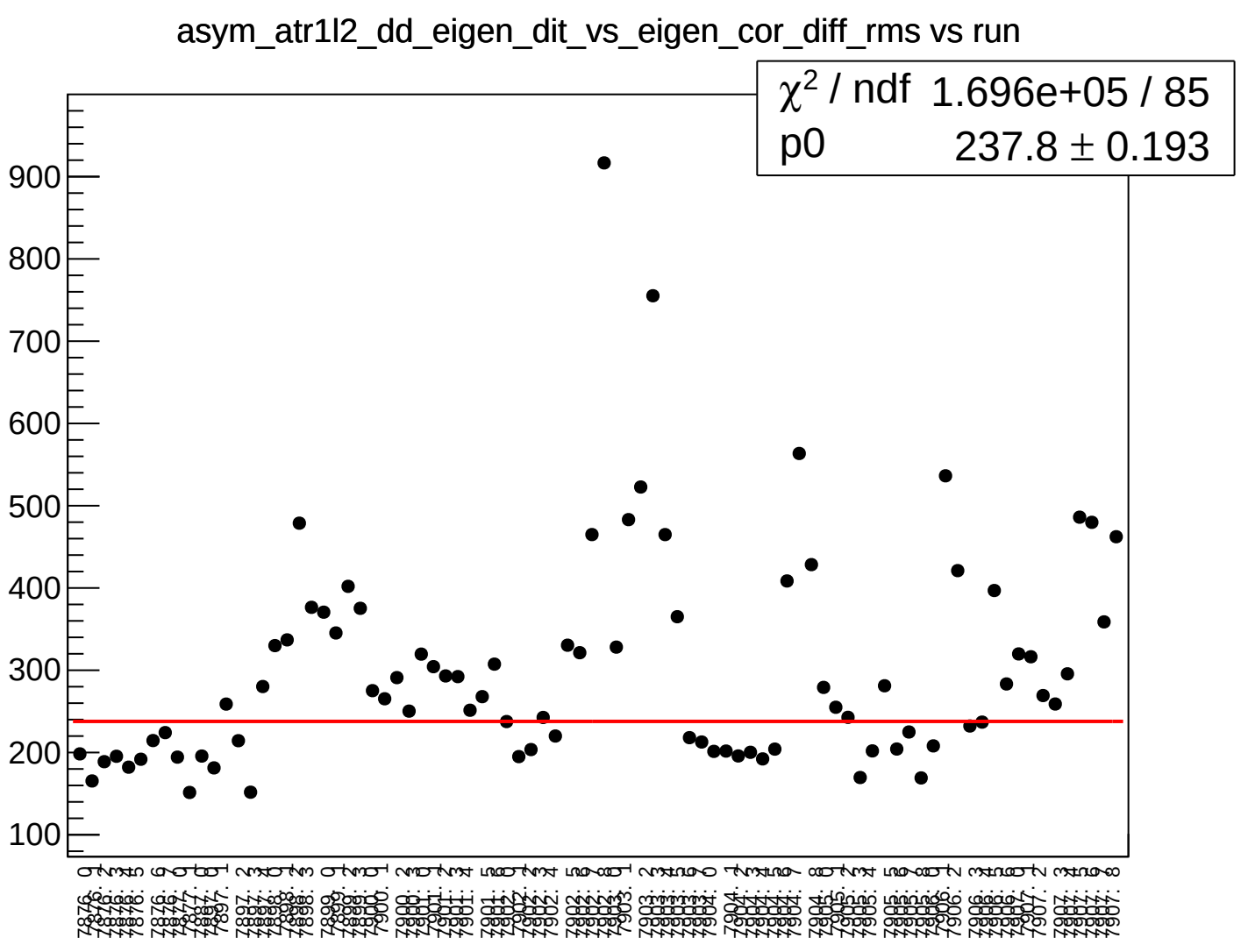

pull1D
Entries 86
Mean −0.04176
Std Dev 0.9744

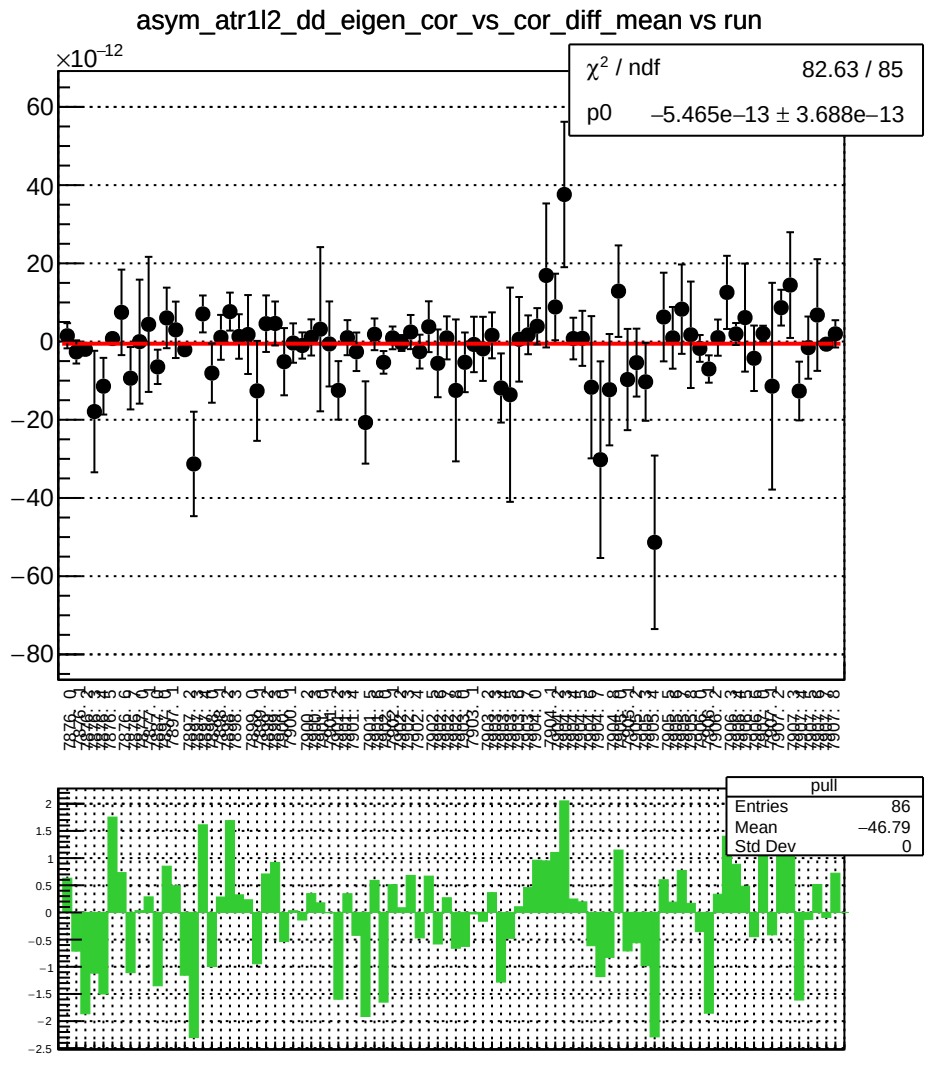

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.797e+05 / 85
p0 0.00761 ± 6.653e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

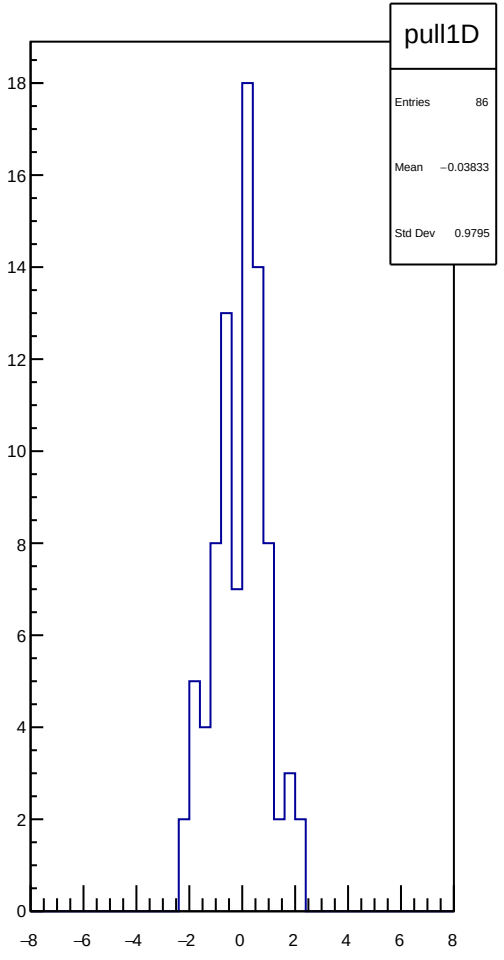

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.71 / 85
p0 −0.3759 ± 0.273
pull
Entries 86
Mean 203.7
Std Dev 0
pull1D
Entries 86
Mean 0.01554
Std Dev 0.9002

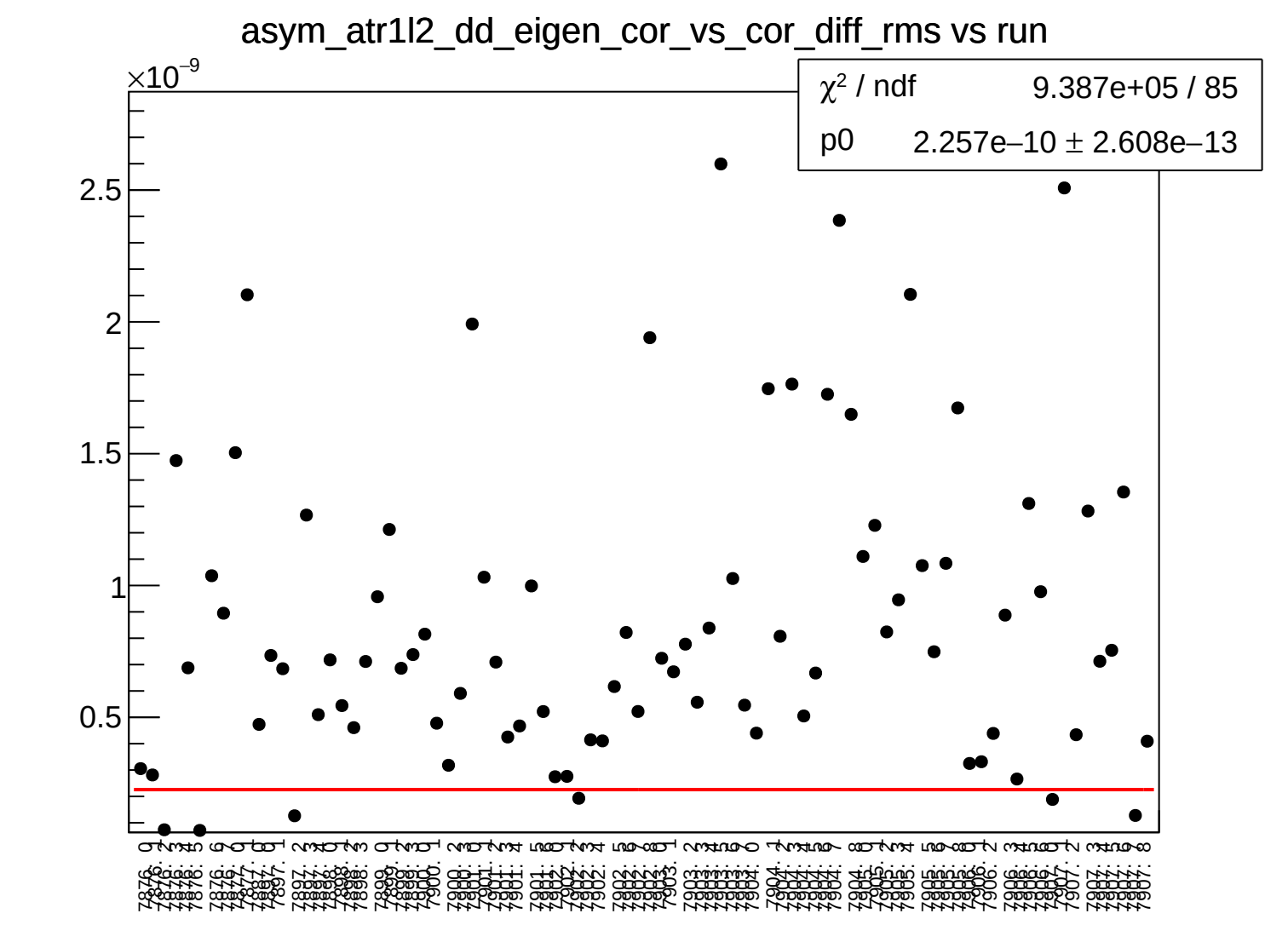

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.696e+05 / 85
p0 237.8 ± 0.193
900
800
700
600
500
400
300
200
100

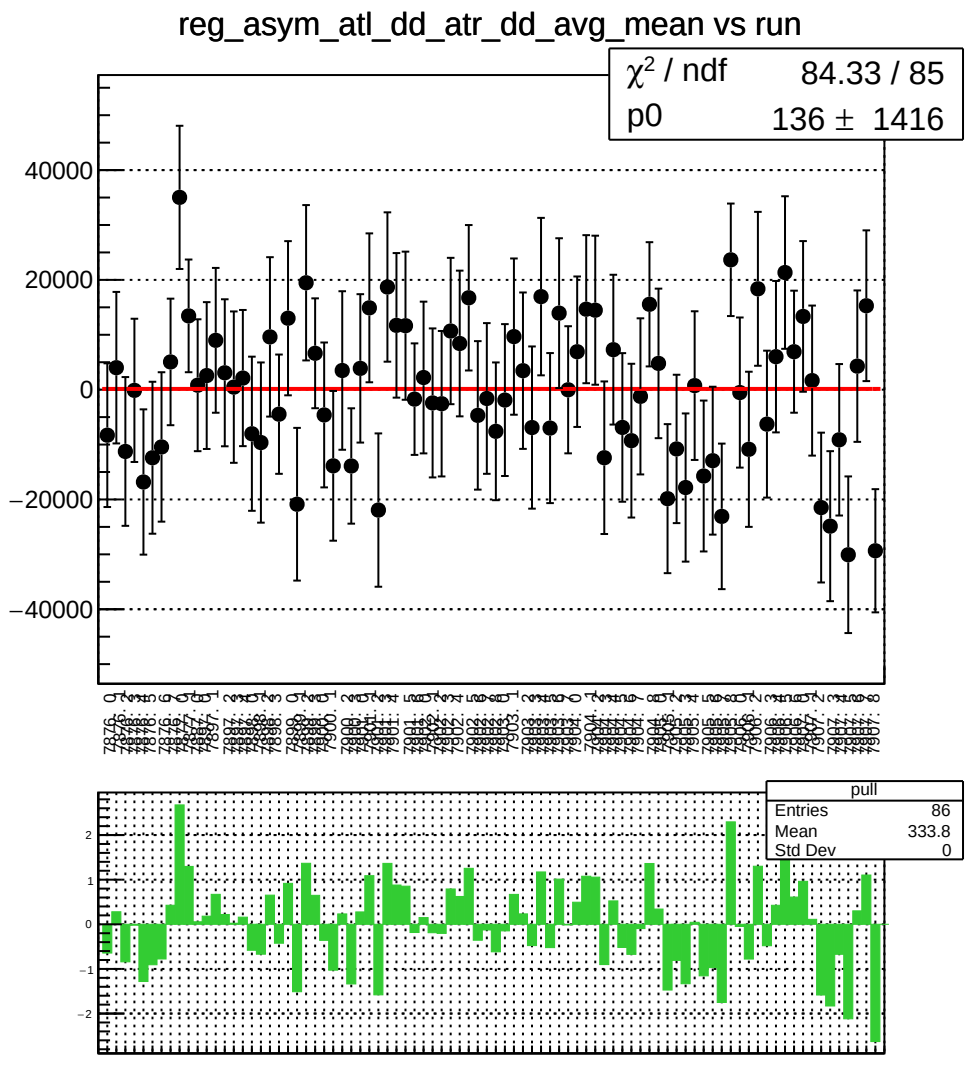

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.71 / 85
p0 −0.3759 ± 0.273
pull
Entries 86
Mean 203.7
Std Dev 0
pull1D
Entries 86
Mean 0.01554
Std Dev 0.9002

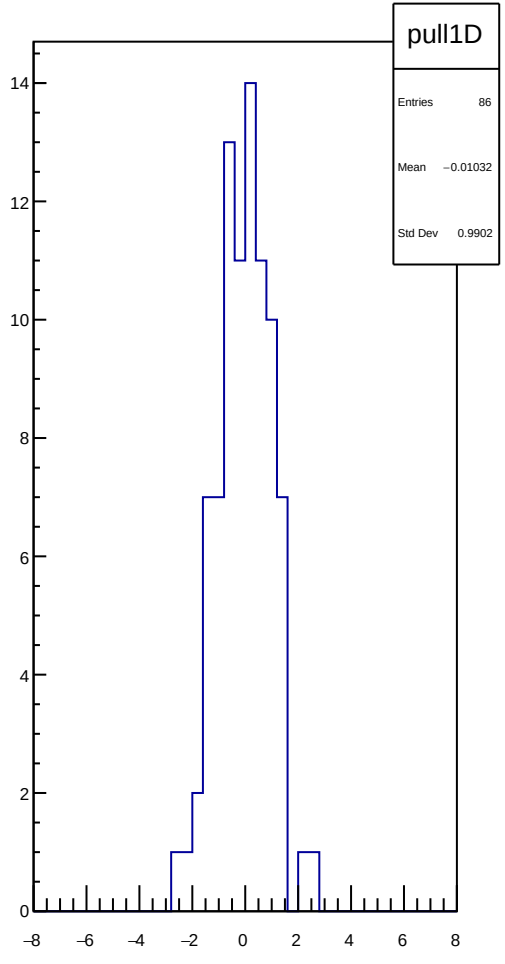

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.696e+05 / 85
p0 237.8 ± 0.193
900
800
700
600
500
400
300
200
100

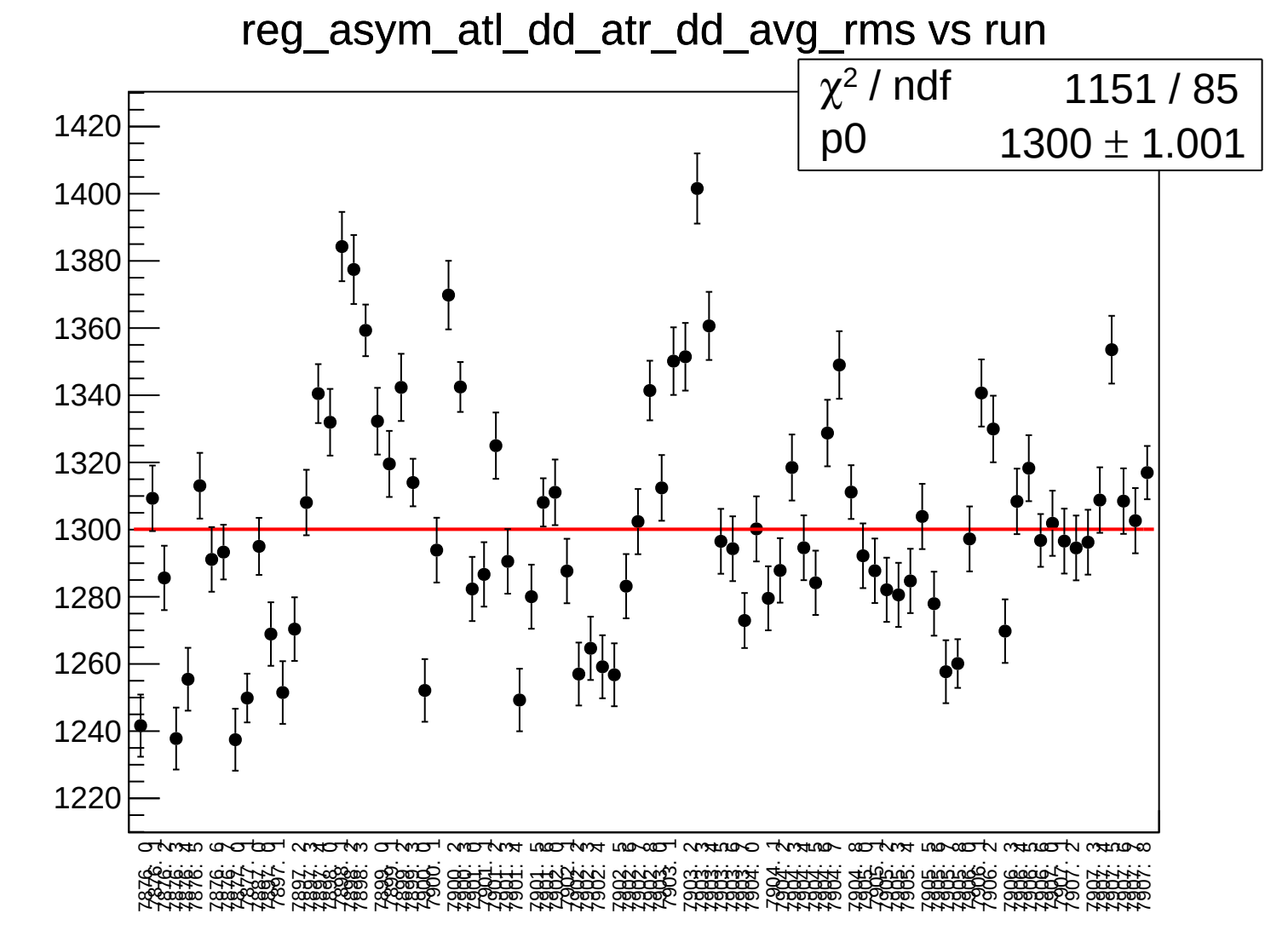

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.63 / 85
p0 −5.465e−13 ± 3.688e−13
pull
Entries 86
Mean −46.79
Std Dev 0

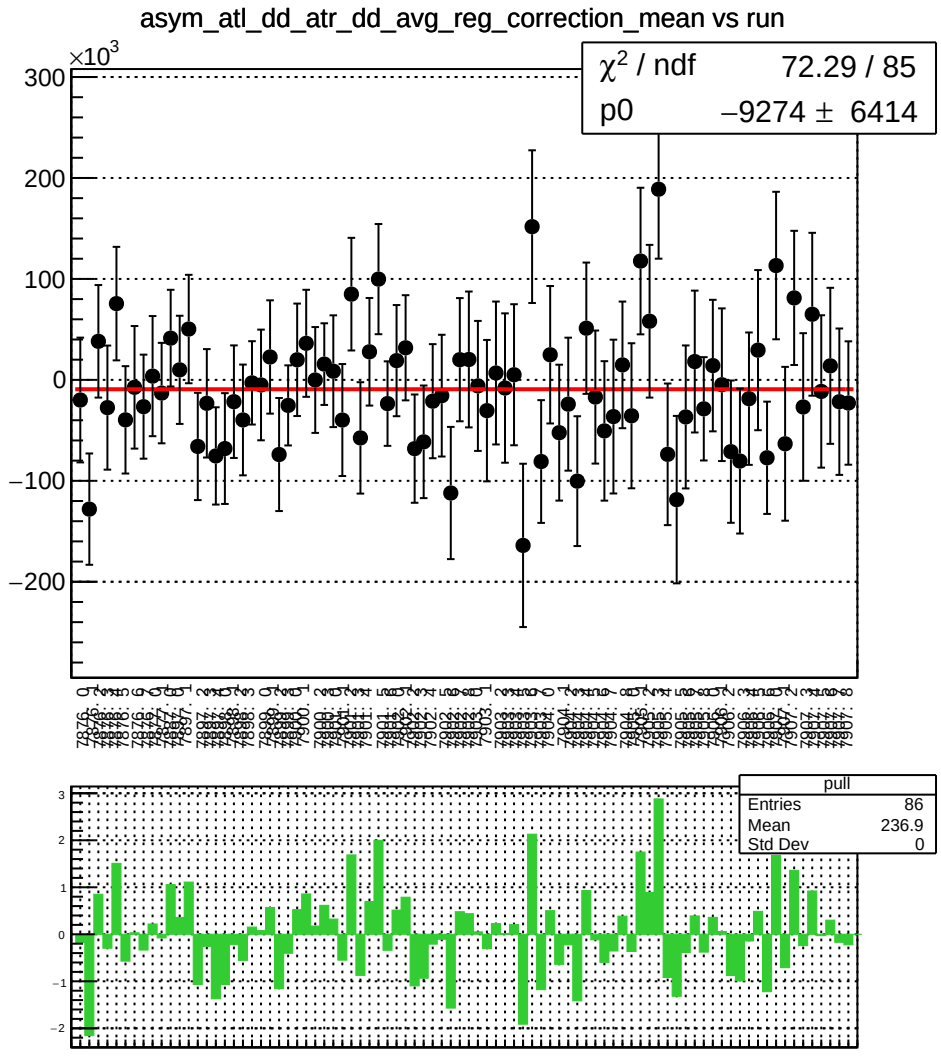

pull1D
Entries 86
Mean −0.03833
Std Dev 0.9795

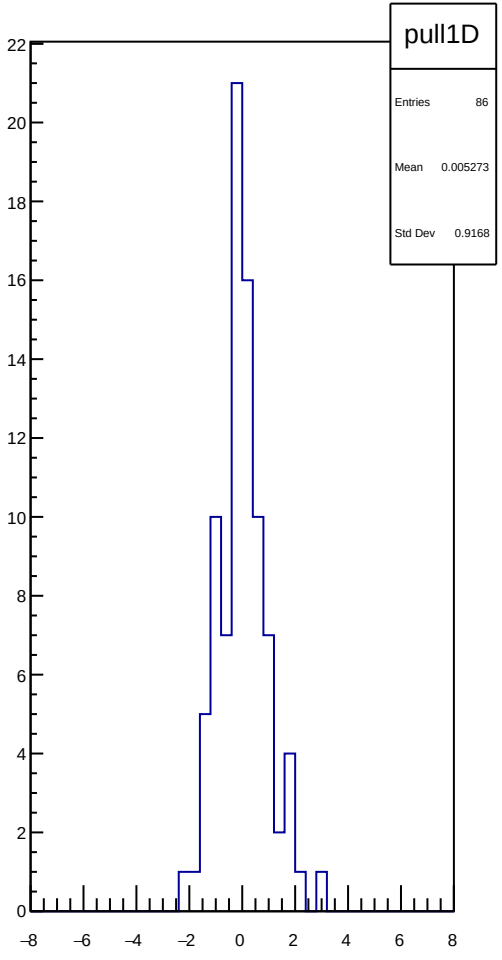

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.387e+05 / 85
p0 2.257e−10 ± 2.608e−13
2.5
2
1.5
1
0.5

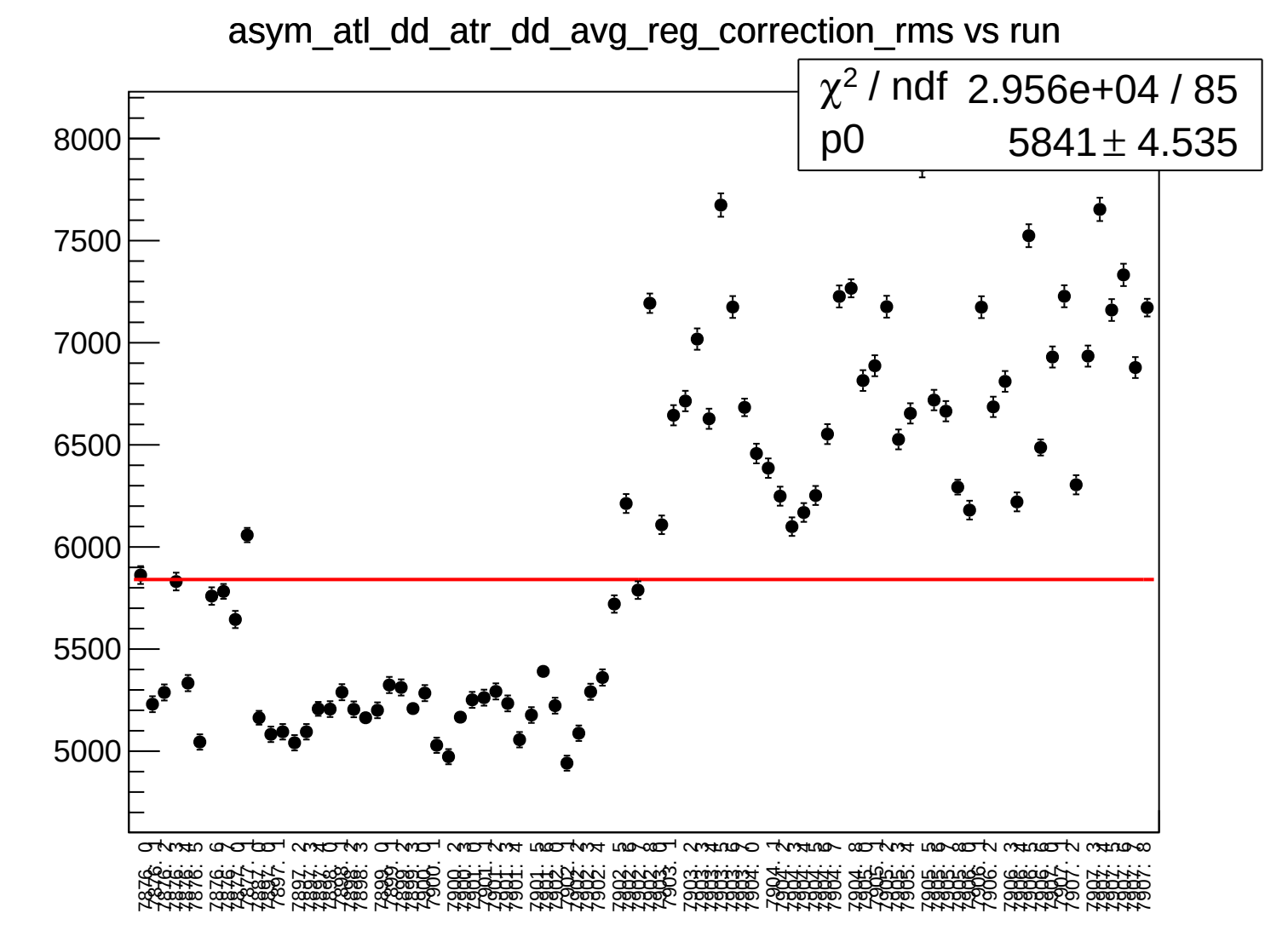

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 84.33 / 85
p0 136 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 333.8
Std Dev 0
2
1
0
−1
−2

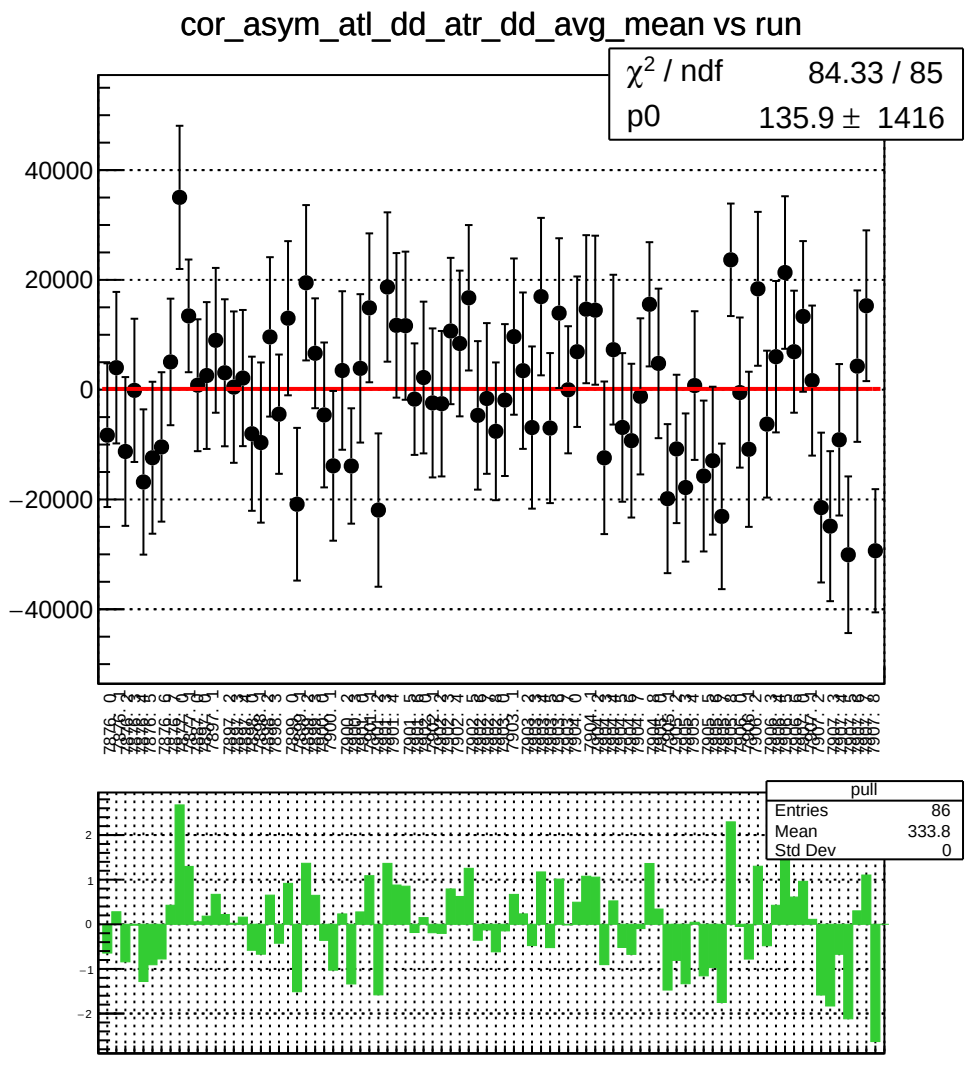

pull1D
Entries 86
Mean −0.01032
Std Dev 0.9902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

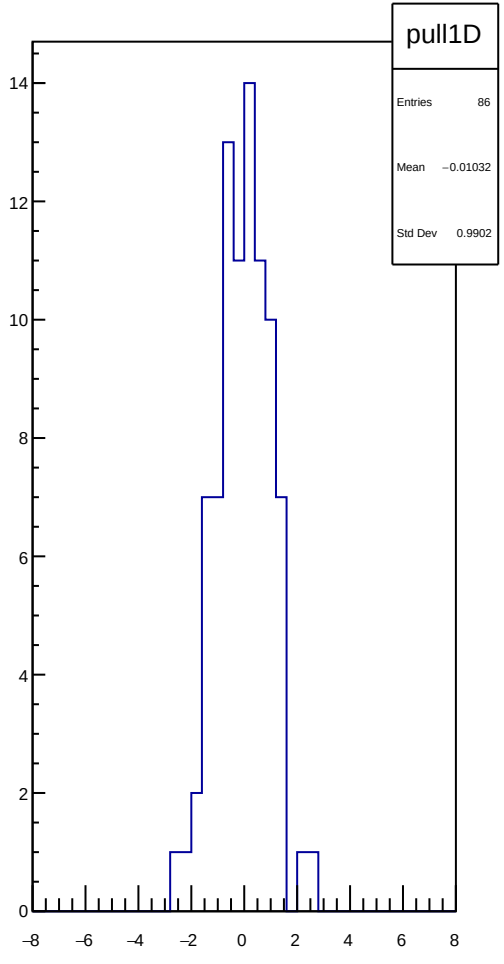

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1151 / 85
p0 1300 ± 1.001
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

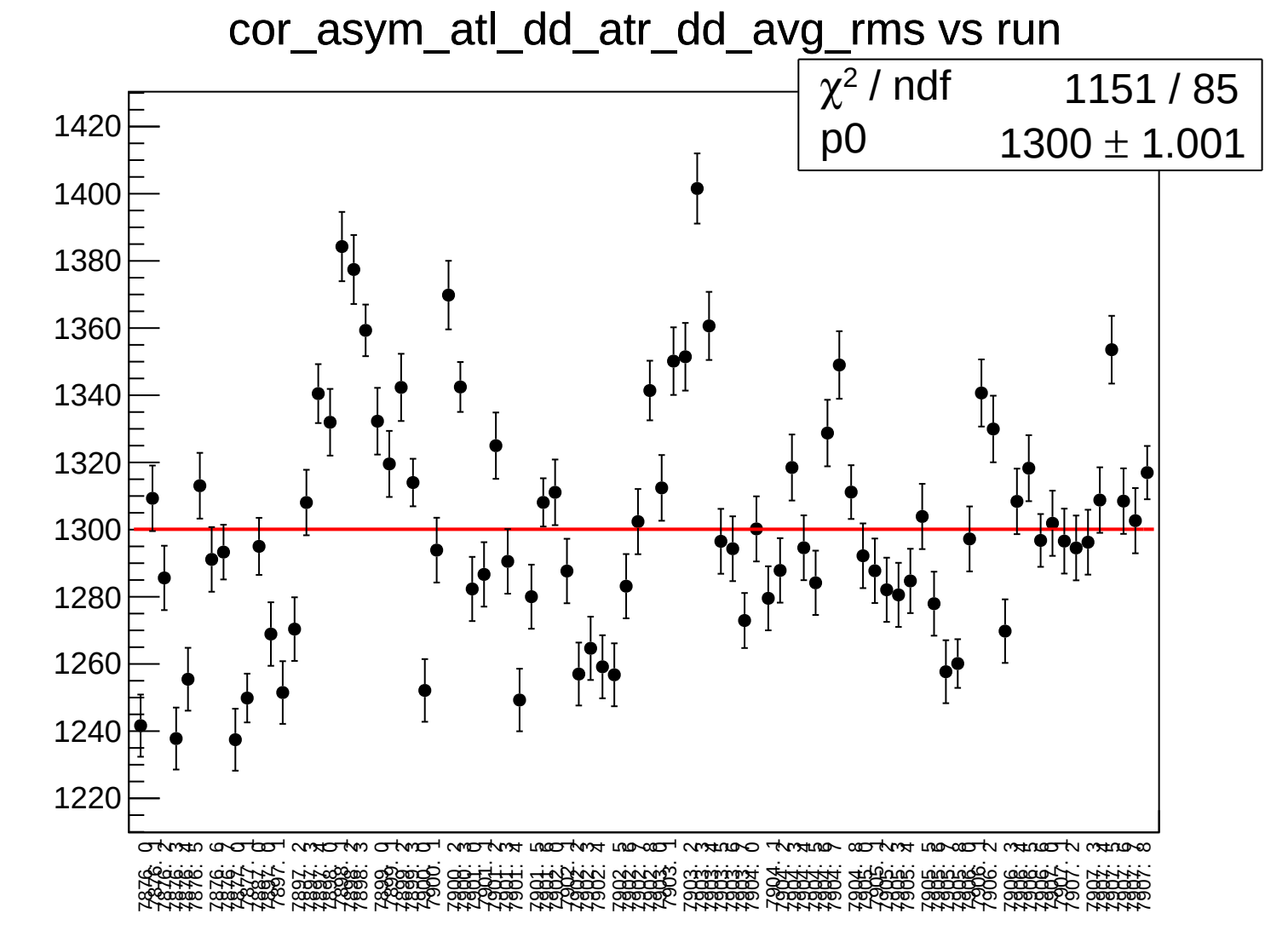

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.29 / 85
p0 −9274 ± 6414
300
200
100
0
−100
−200
pull
Entries 86
Mean 236.9
Std Dev 0
3
2
1
0
−1
−2

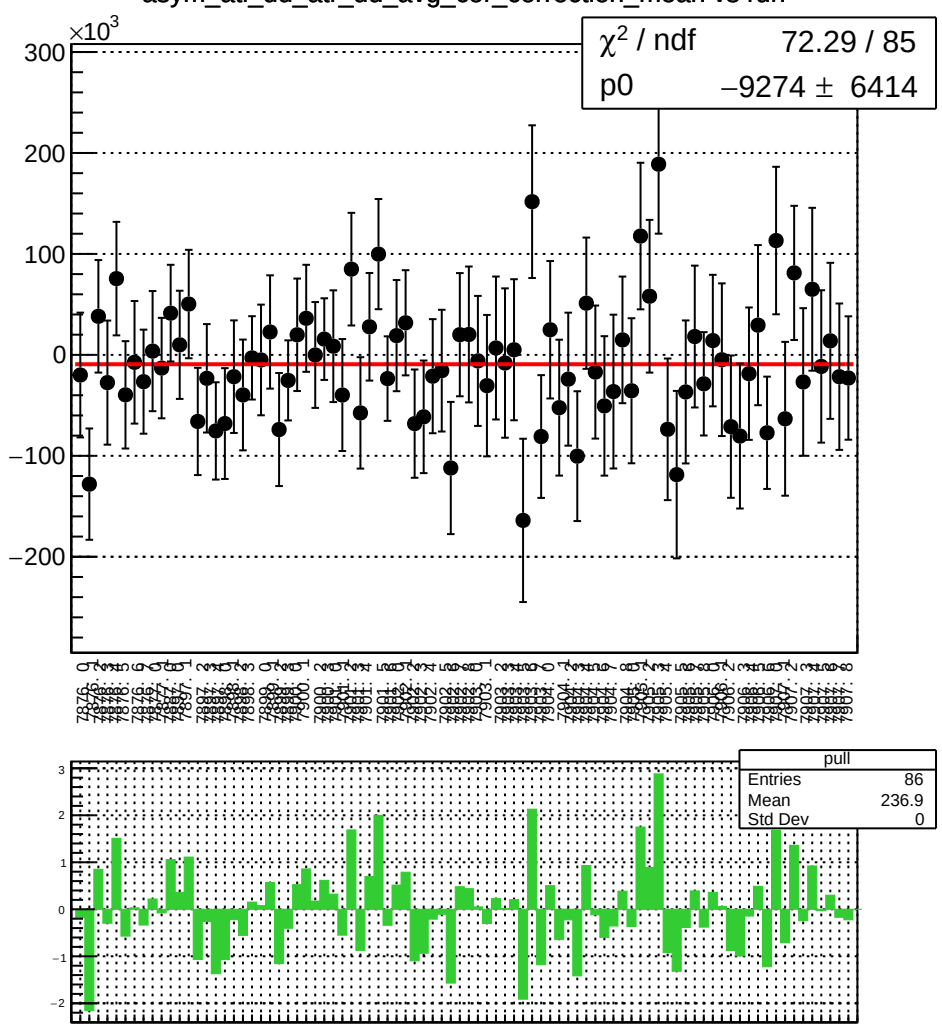

pull1D
Entries 86
Mean 0.005273
Std Dev 0.9168
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

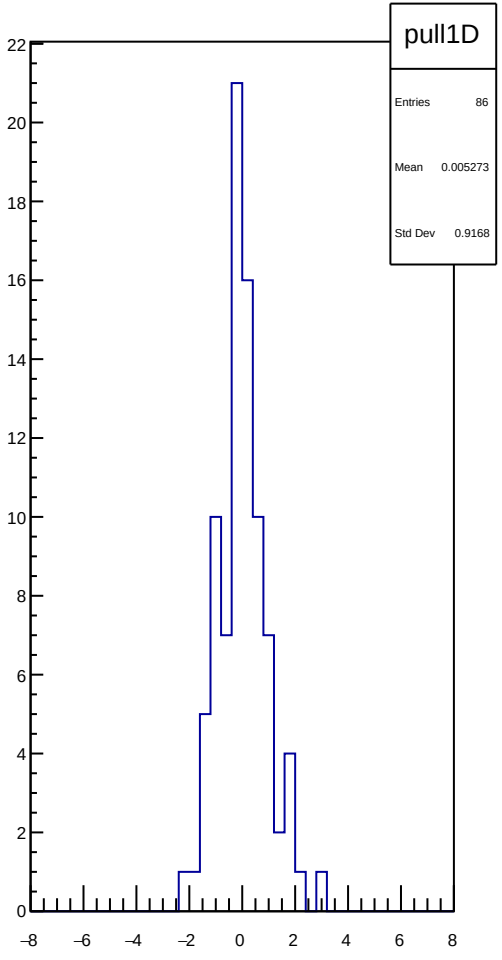

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 2.956e+04 / 85
p0 5841 ± 4.535
8000
7500
7000
6500
6000
5500
5000

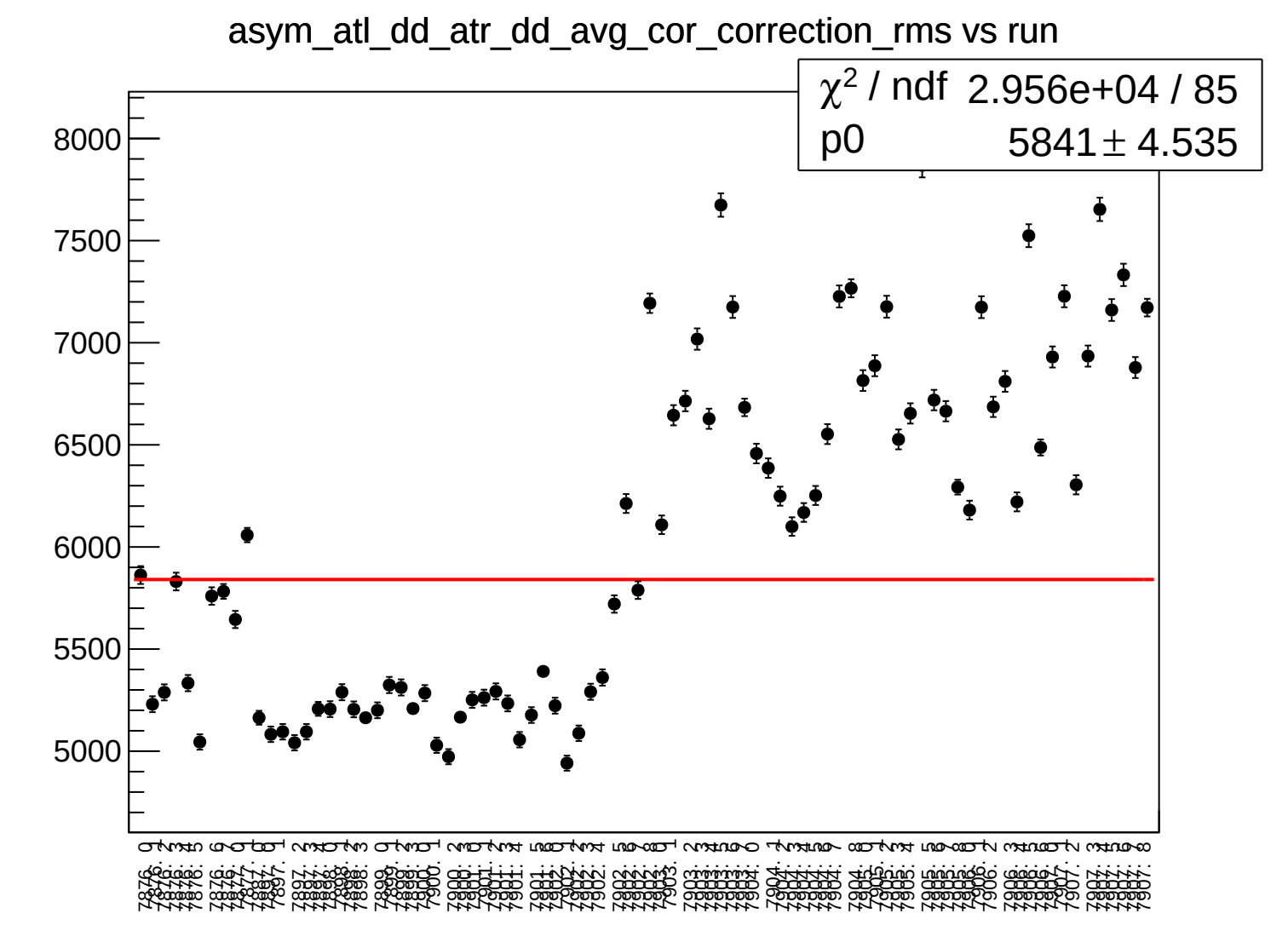

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 84.33 / 85
p0 135.9 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 333.8
Std Dev 0
2
1
0
−1
−2

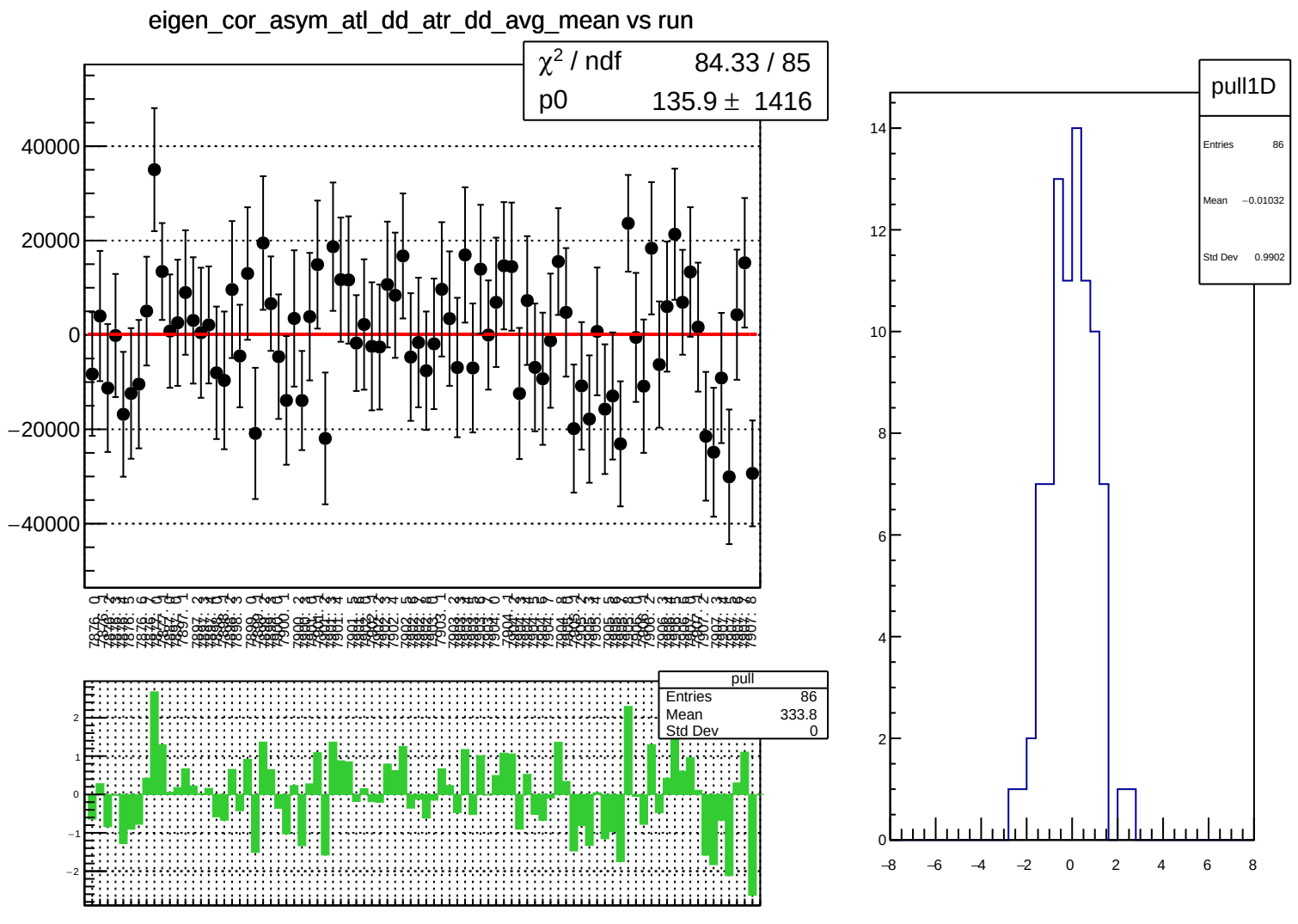

pull1D
Entries 86
Mean −0.01032
Std Dev 0.9902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

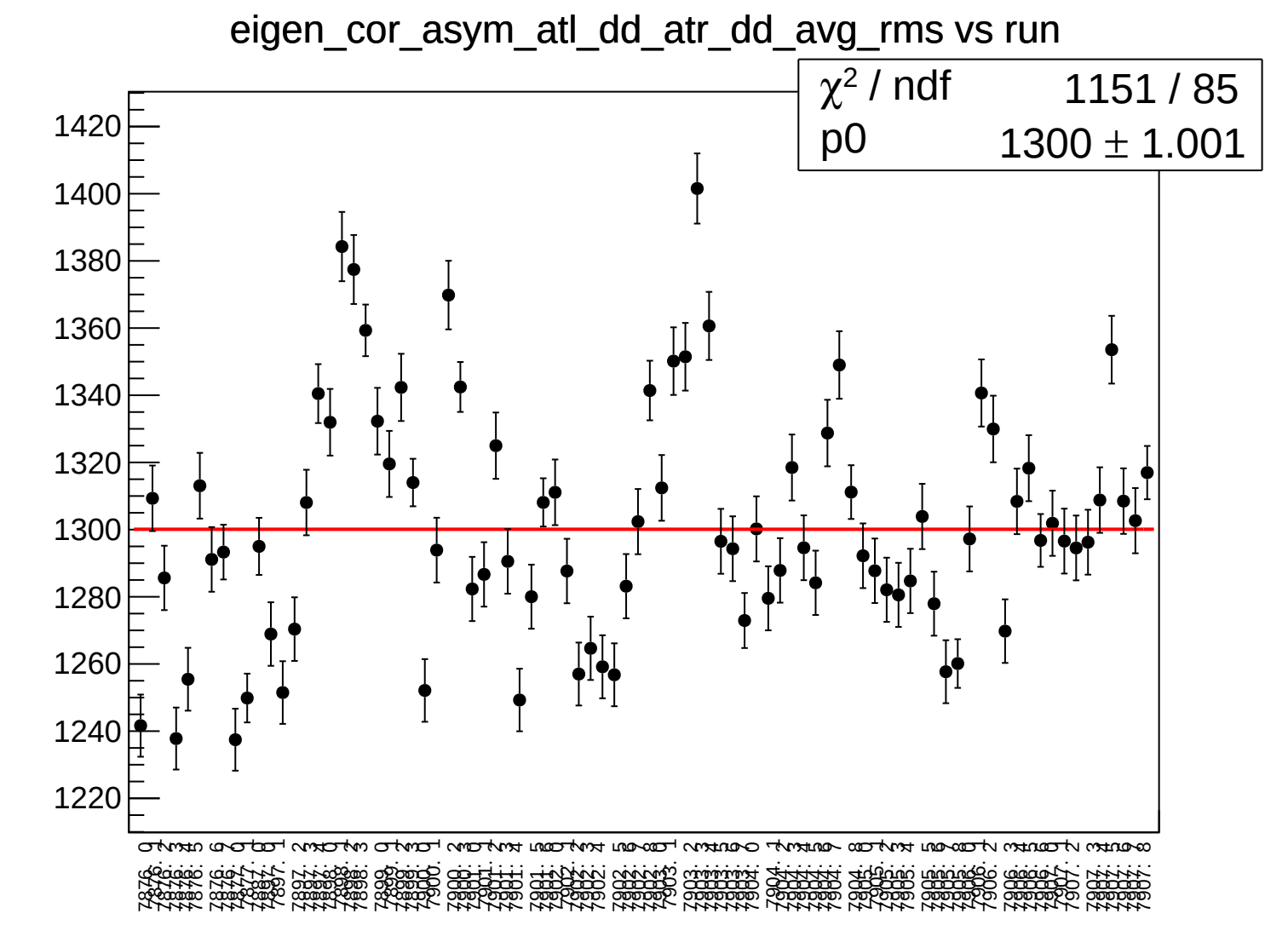

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 1151 / 85
p0 1300 ± 1.001
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

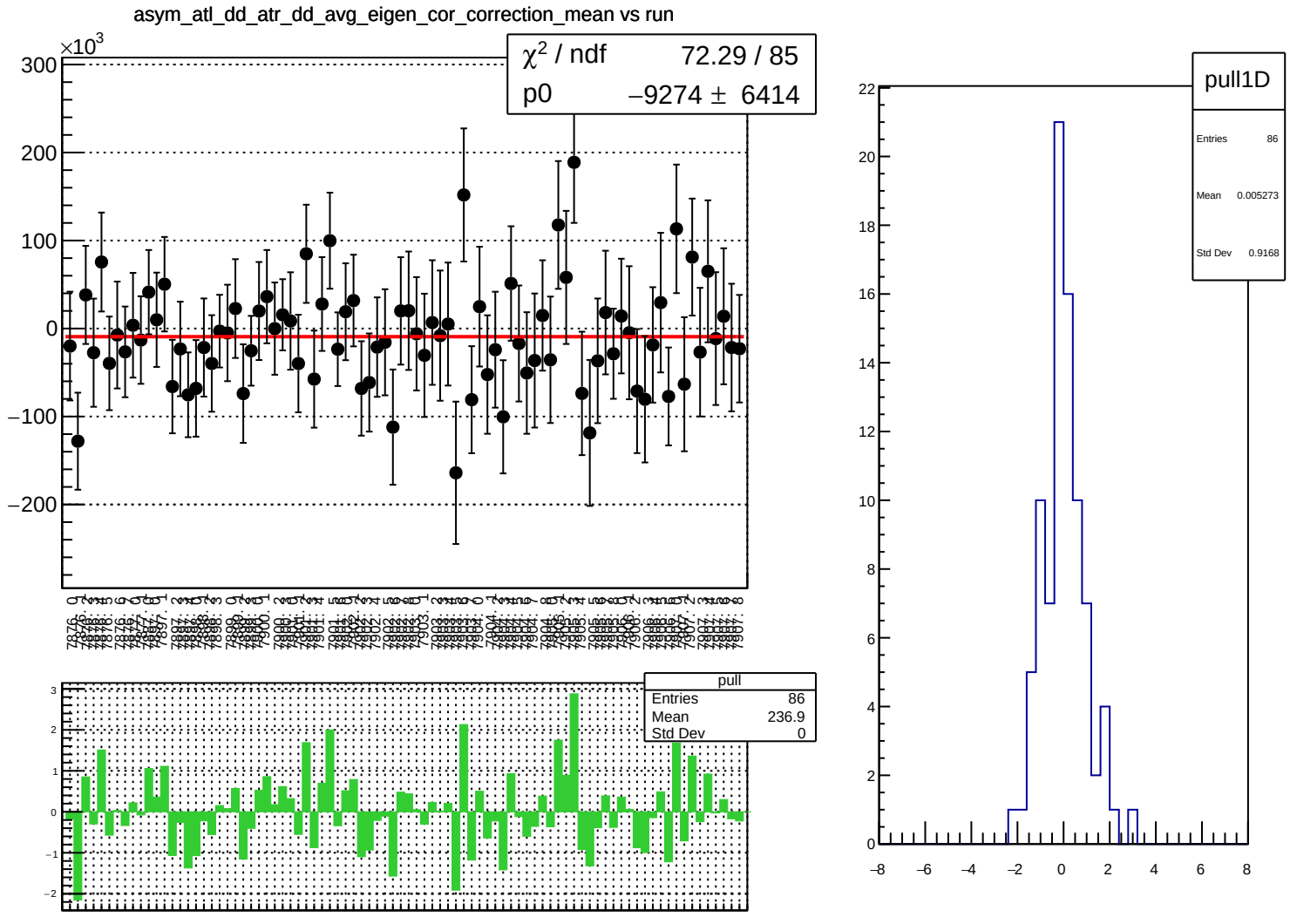

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 72.29 / 85
p0 −9274 ± 6414
pull
Entries 86
Mean 236.9
Std Dev 0

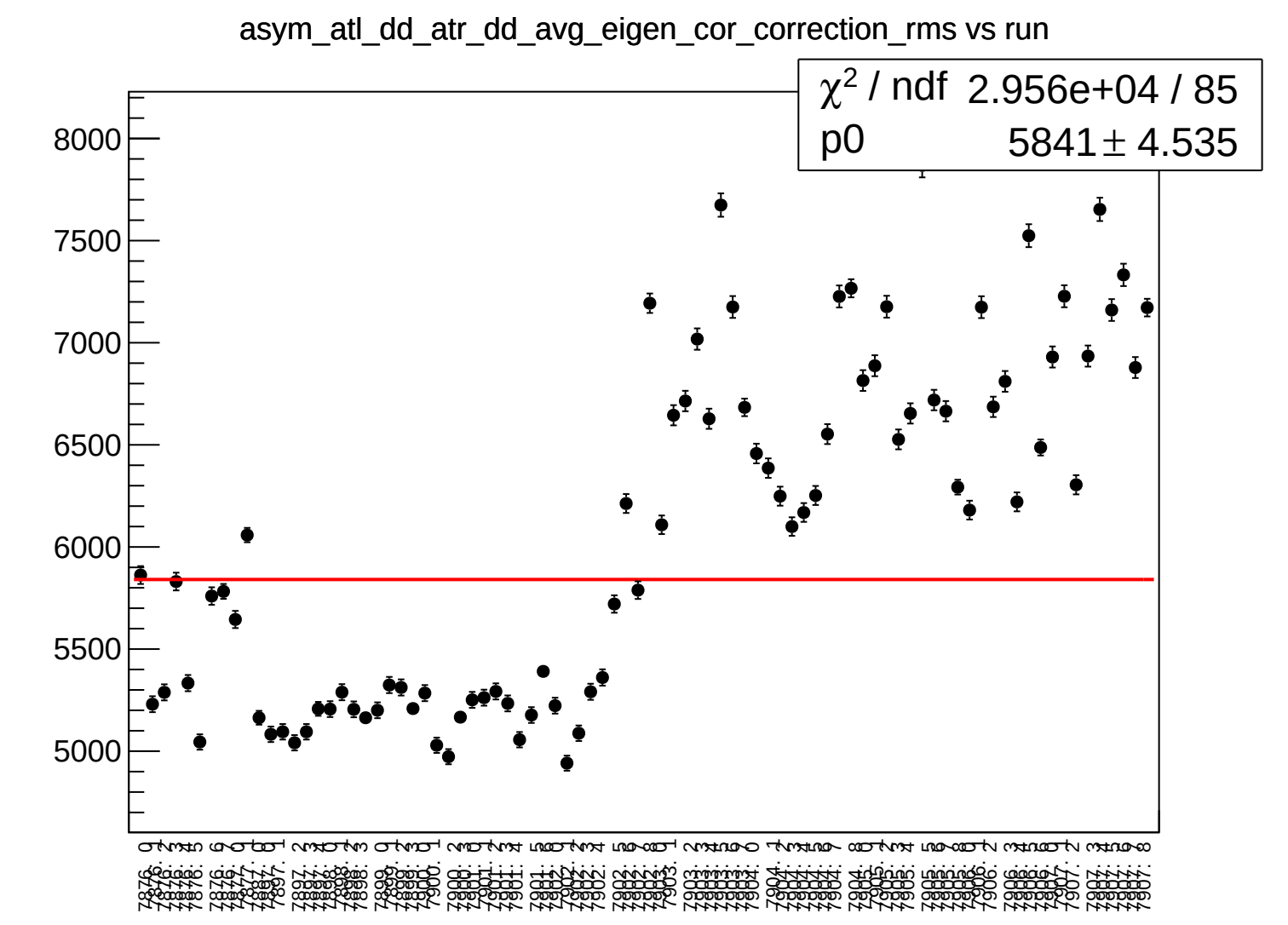

pull1D
Entries 86
Mean 0.005273
Std Dev 0.9168

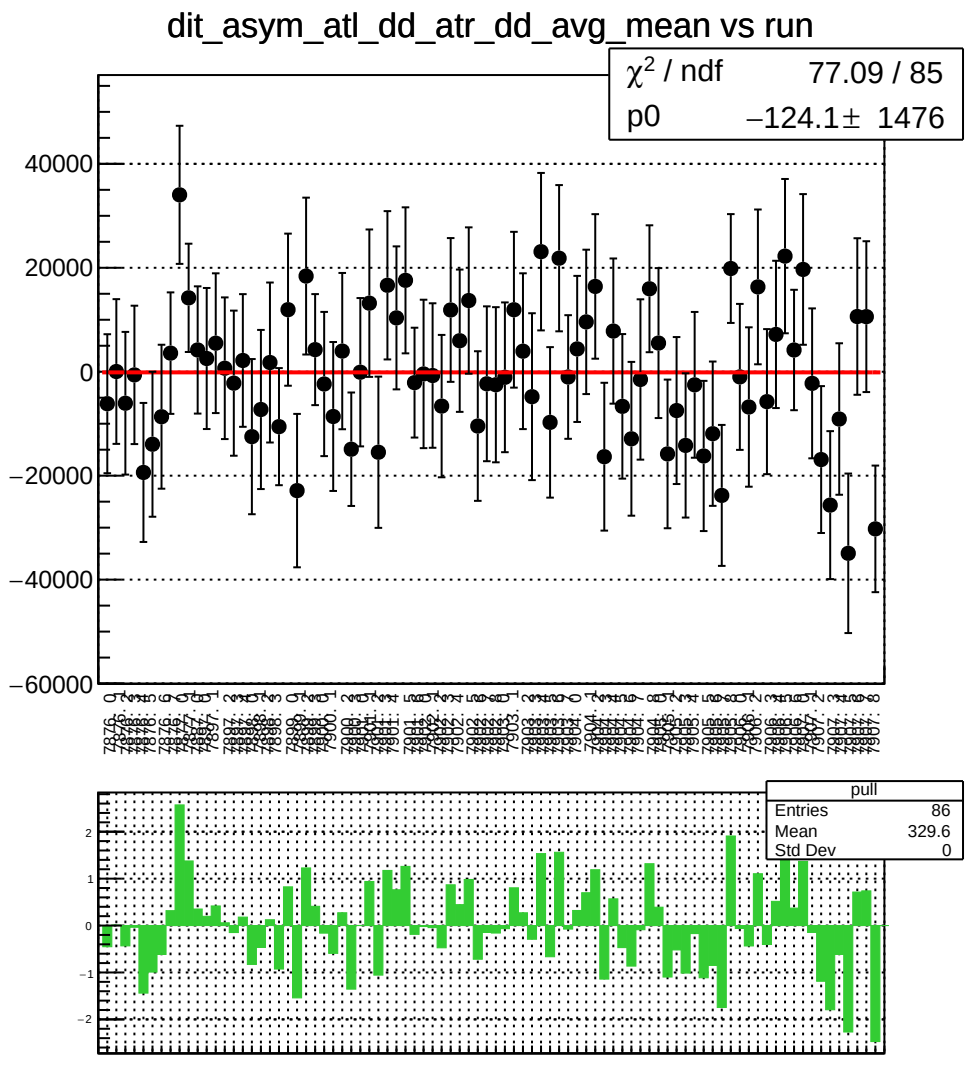

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.956e+04 / 85
p0 5841 ± 4.535
8000
7500
7000
6500
6000
5500
5000

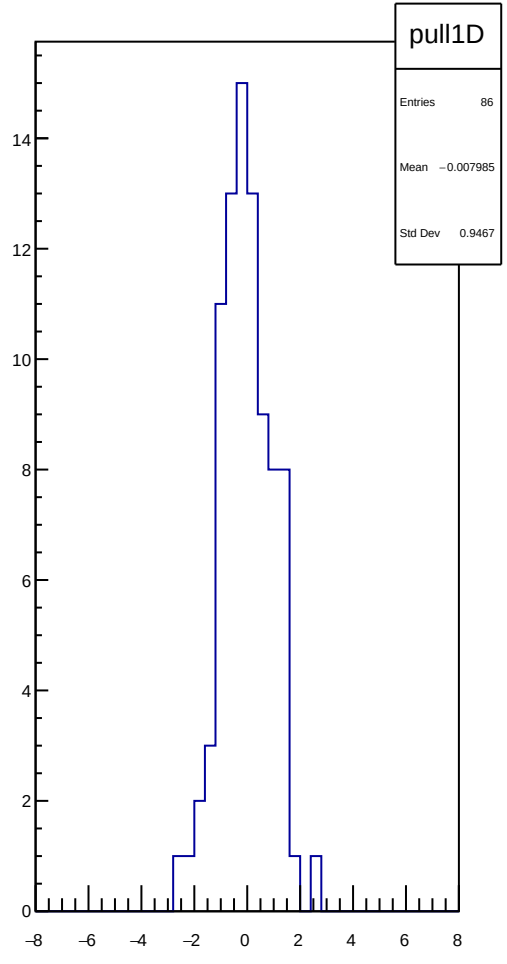

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 84.33 / 85
p0 135.9 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 333.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01032
Std Dev 0.9902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

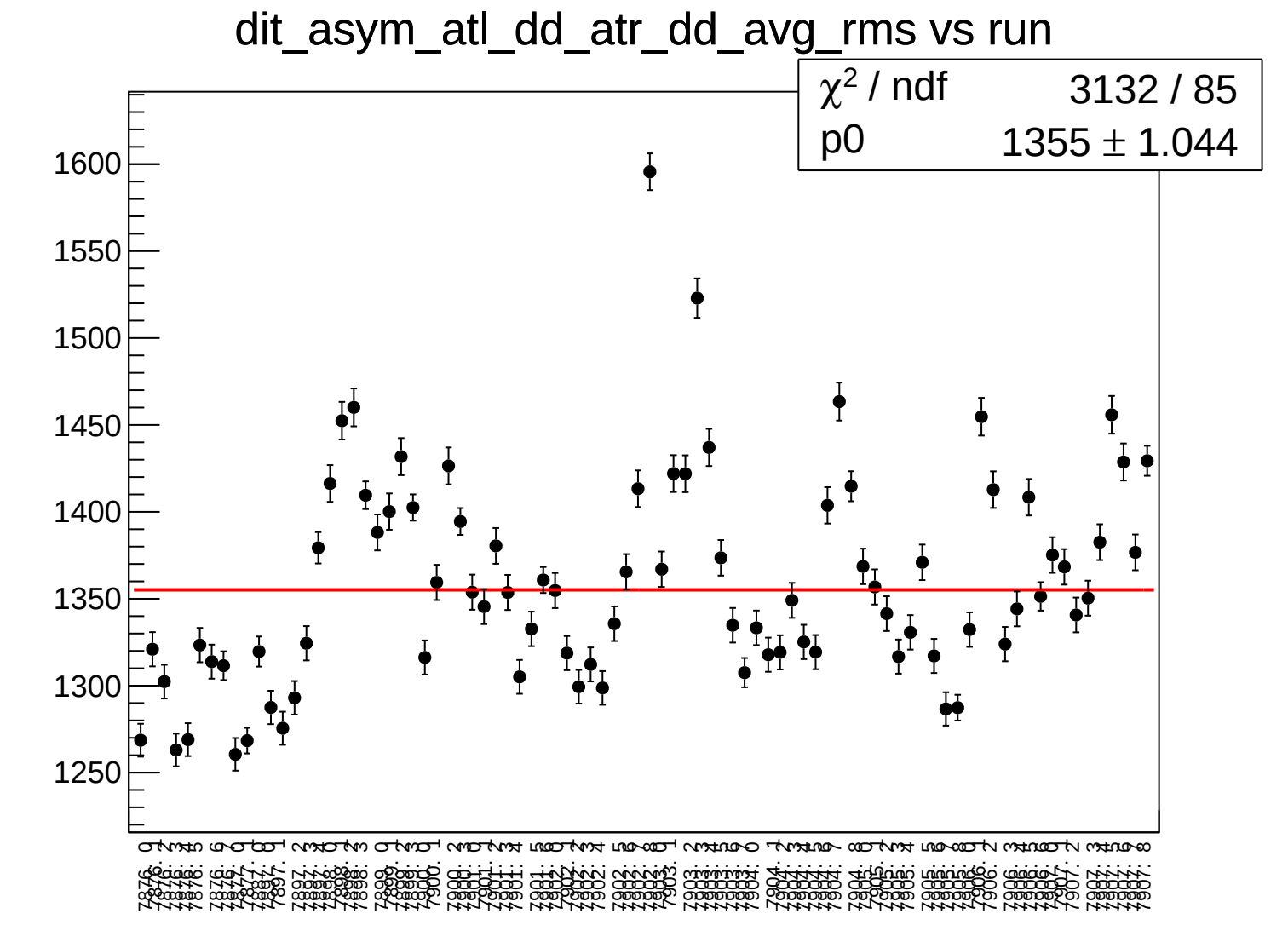

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1151 / 85
p0 1300 ± 1.001
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

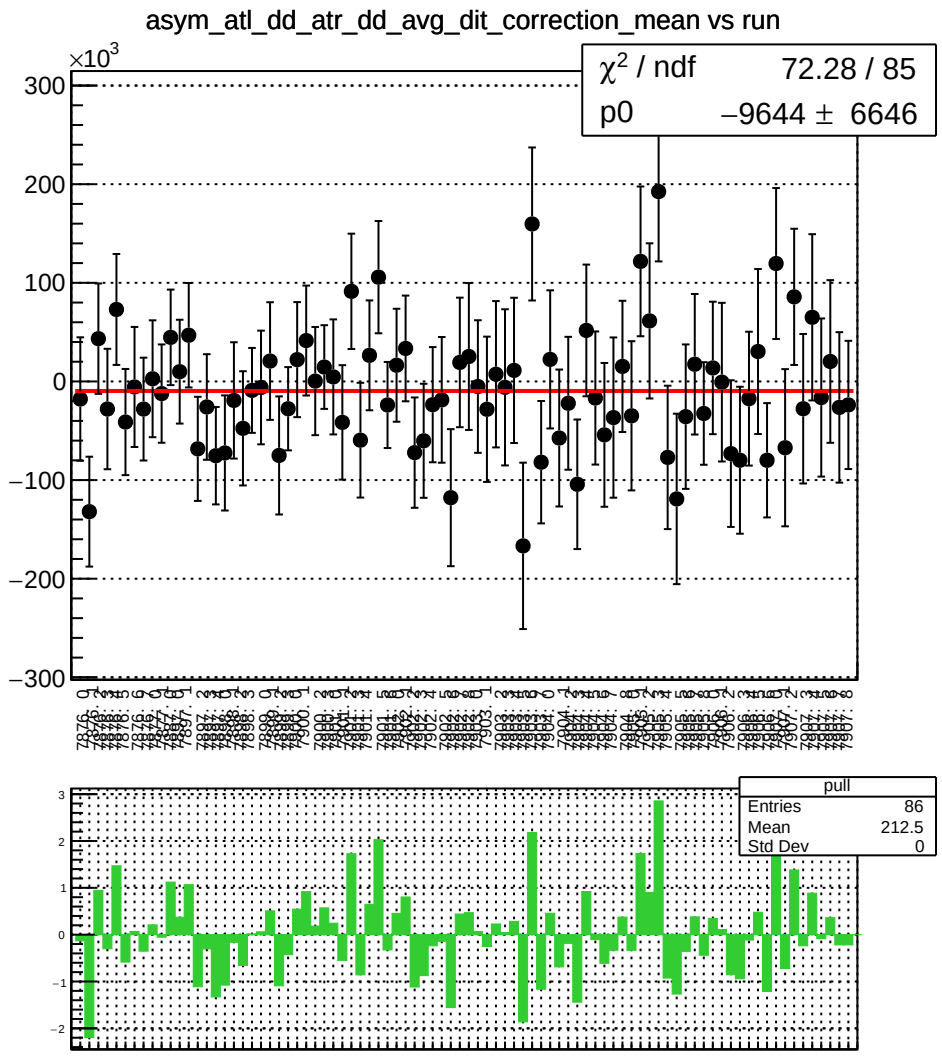

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.29 / 85
p0 −9274 ± 6414
pull
Entries 86
Mean 236.9
Std Dev 0
pull1D
Entries 86
Mean 0.005273
Std Dev 0.9168

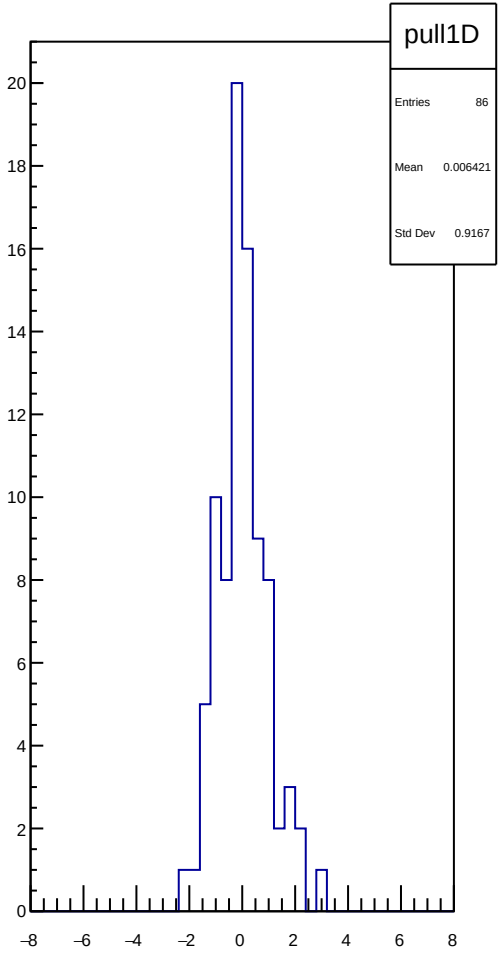

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.956e+04 / 85
p0 5841 ± 4.535
8000
7500
7000
6500
6000
5500
5000

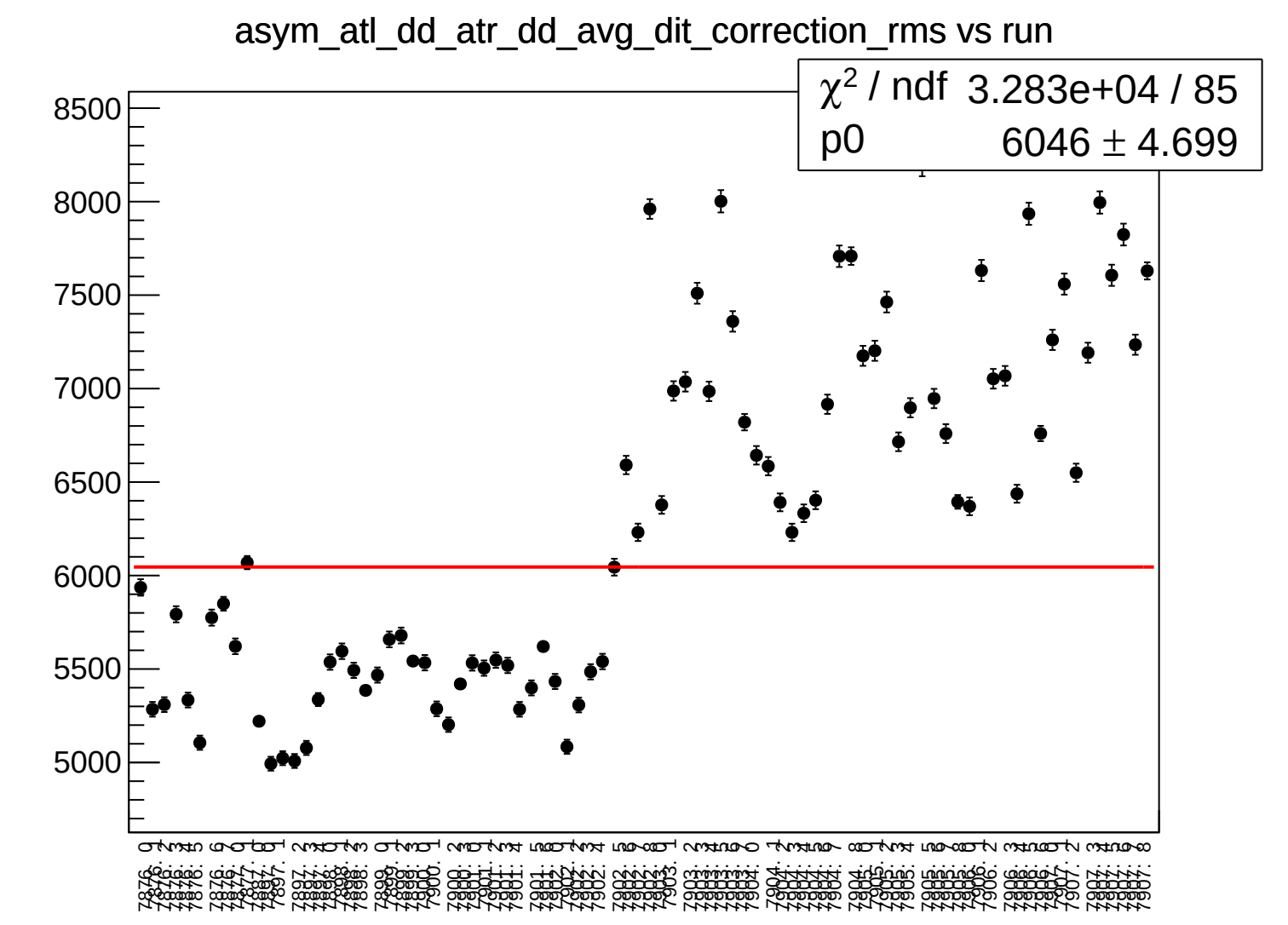

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 77.09 / 85
p0 −124.1± 1476
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 329.6
Std Dev 0
2
1
0
−1
−2

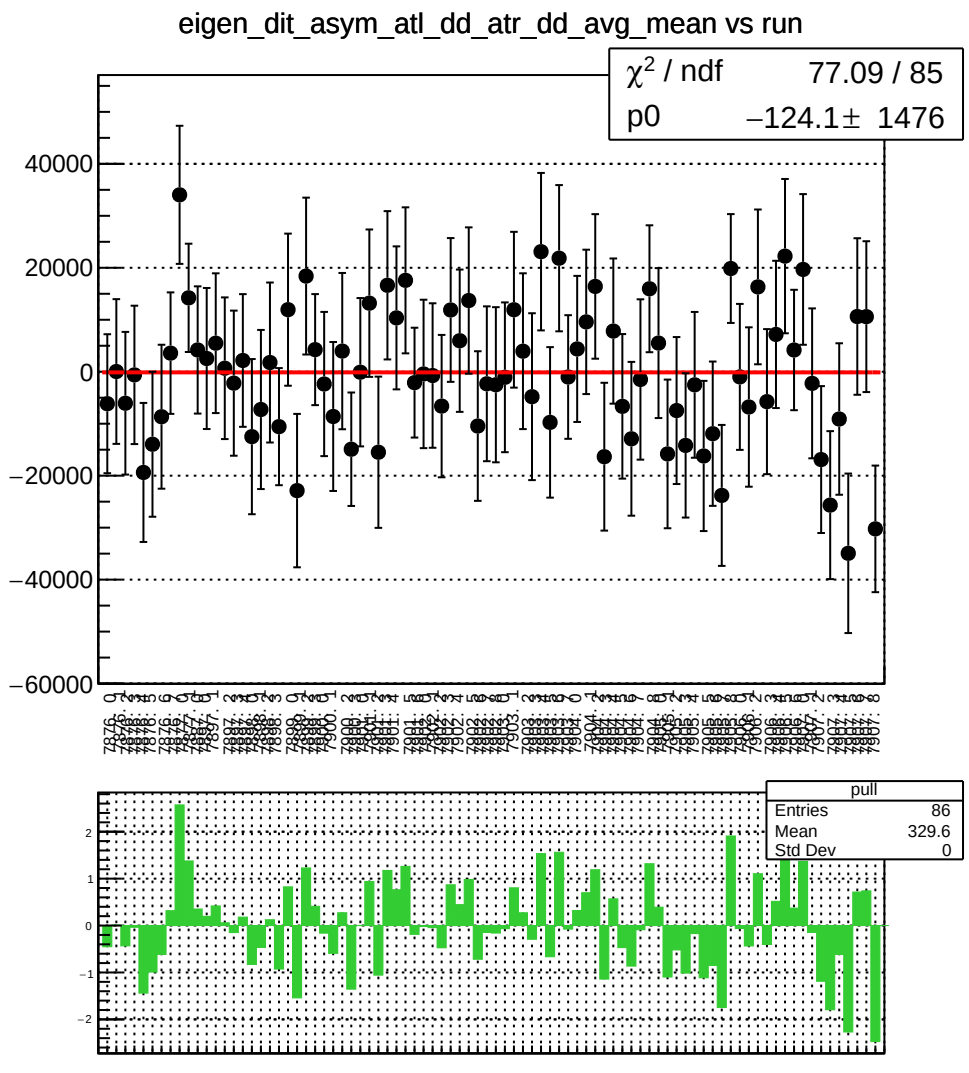

pull1D
Entries 86
Mean −0.007985
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

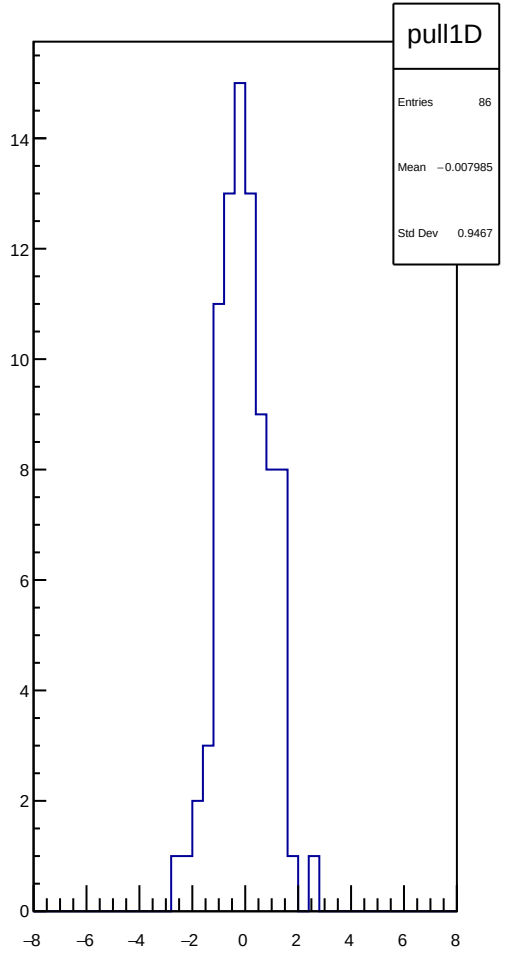

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3132 / 85
p0 1355 ± 1.044
1600
1550
1500
1450
1400
1350
1300
1250

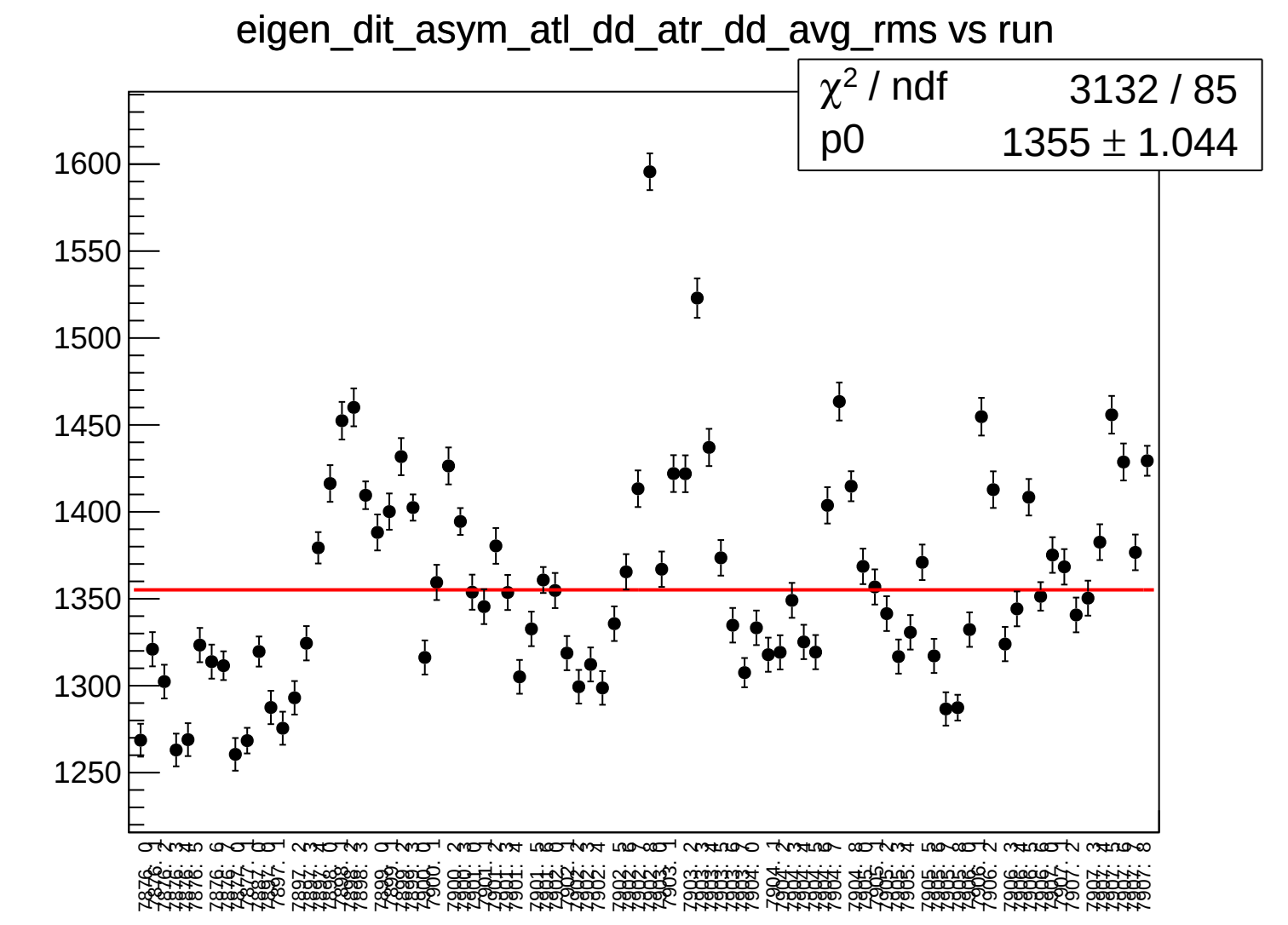

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.28 / 85
p0 −9644 ± 6646
pull
Entries 86
Mean 212.5
Std Dev 0

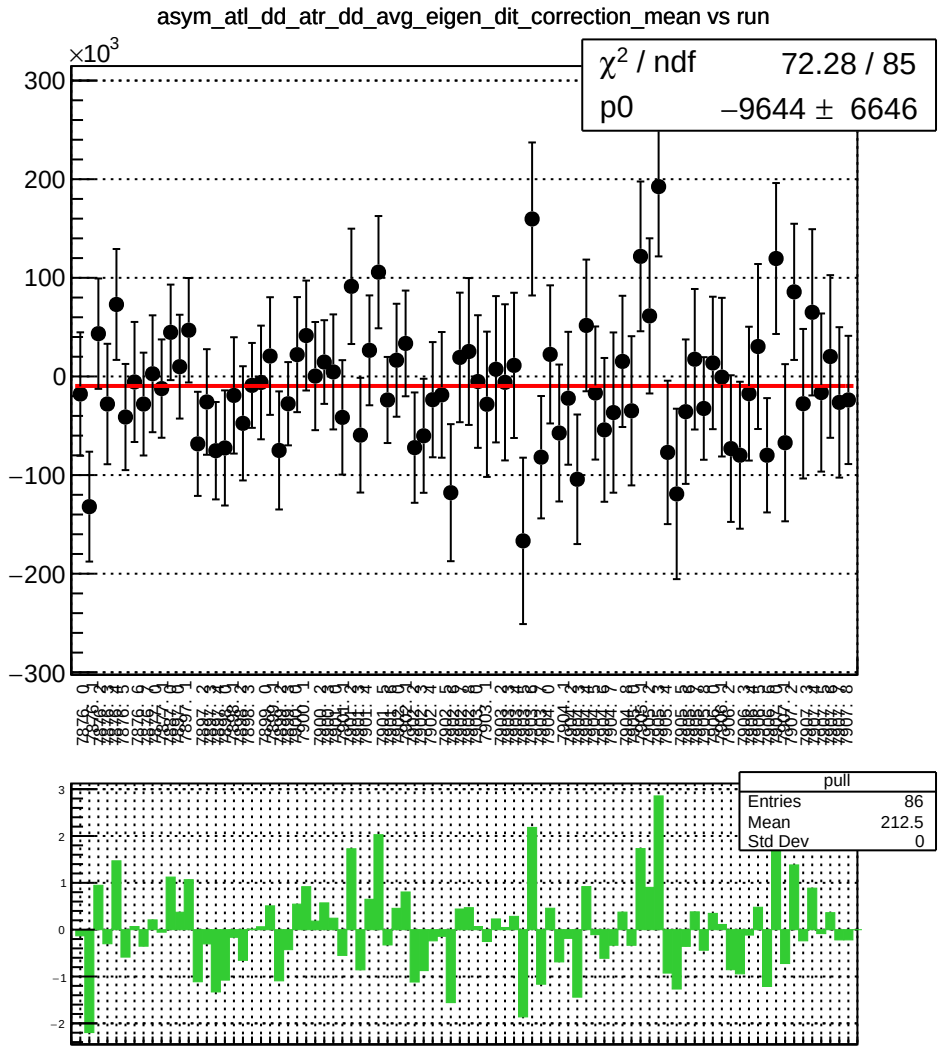

pull1D
Entries 86
Mean 0.006421
Std Dev 0.9167

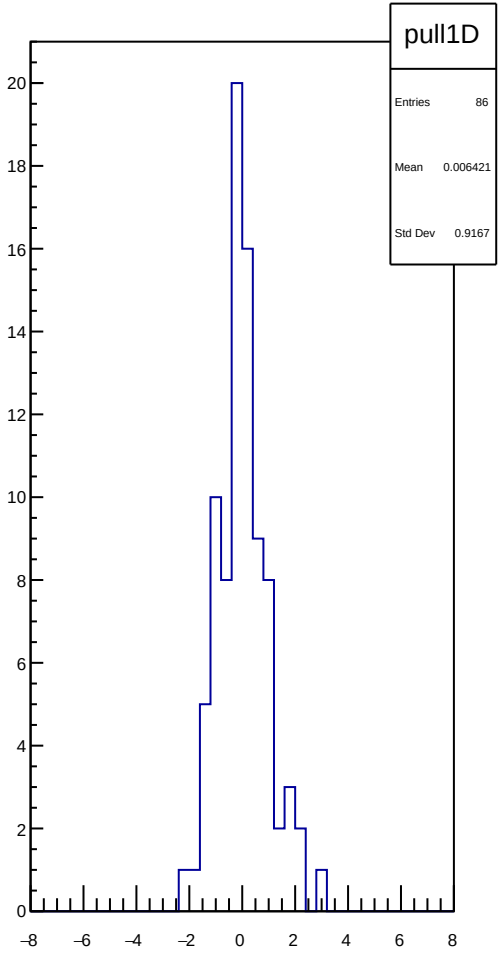

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3.283e+04 / 85
p0 6046 ± 4.699
8500
8000
7500
7000
6500
6000
5500
5000

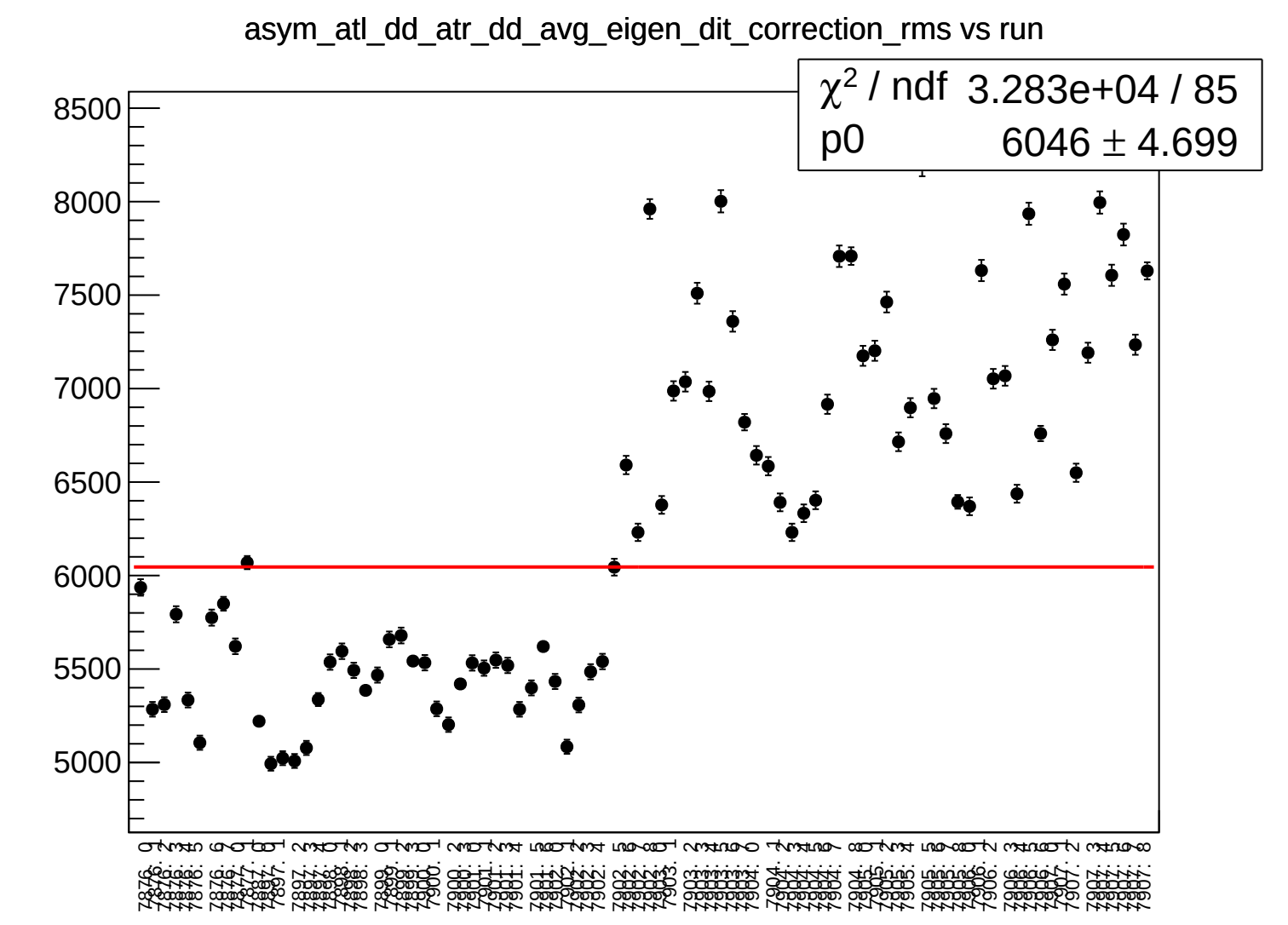

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 77.09 / 85
p0 −124.1± 1476
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 329.6
Std Dev 0
2
1
0
−1
−2

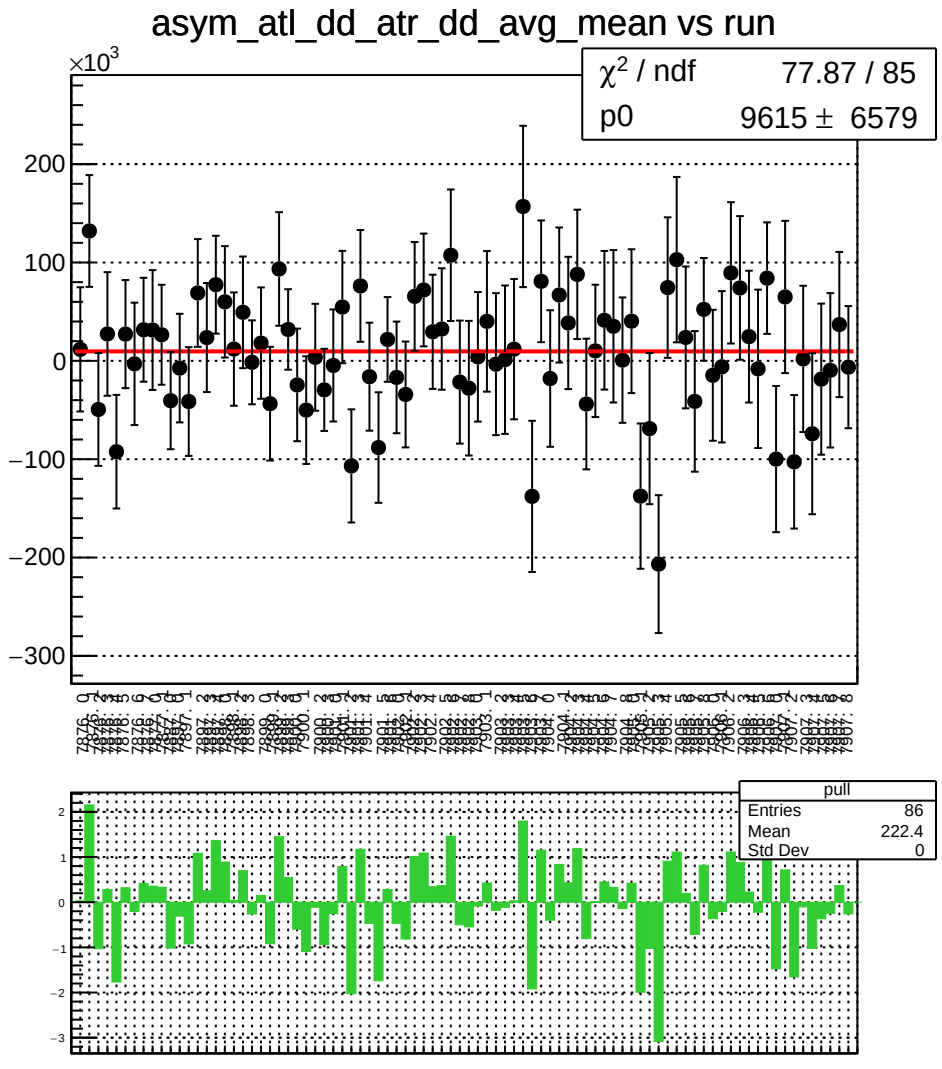

pull1D
Entries 86
Mean −0.007985
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

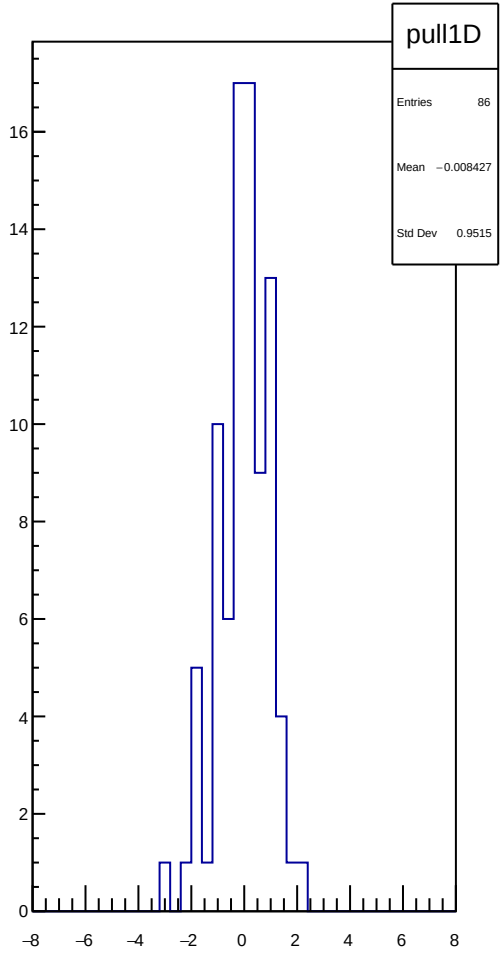

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 3132 / 85
p0 1355 ± 1.044
1600
1550
1500
1450
1400
1350
1300
1250

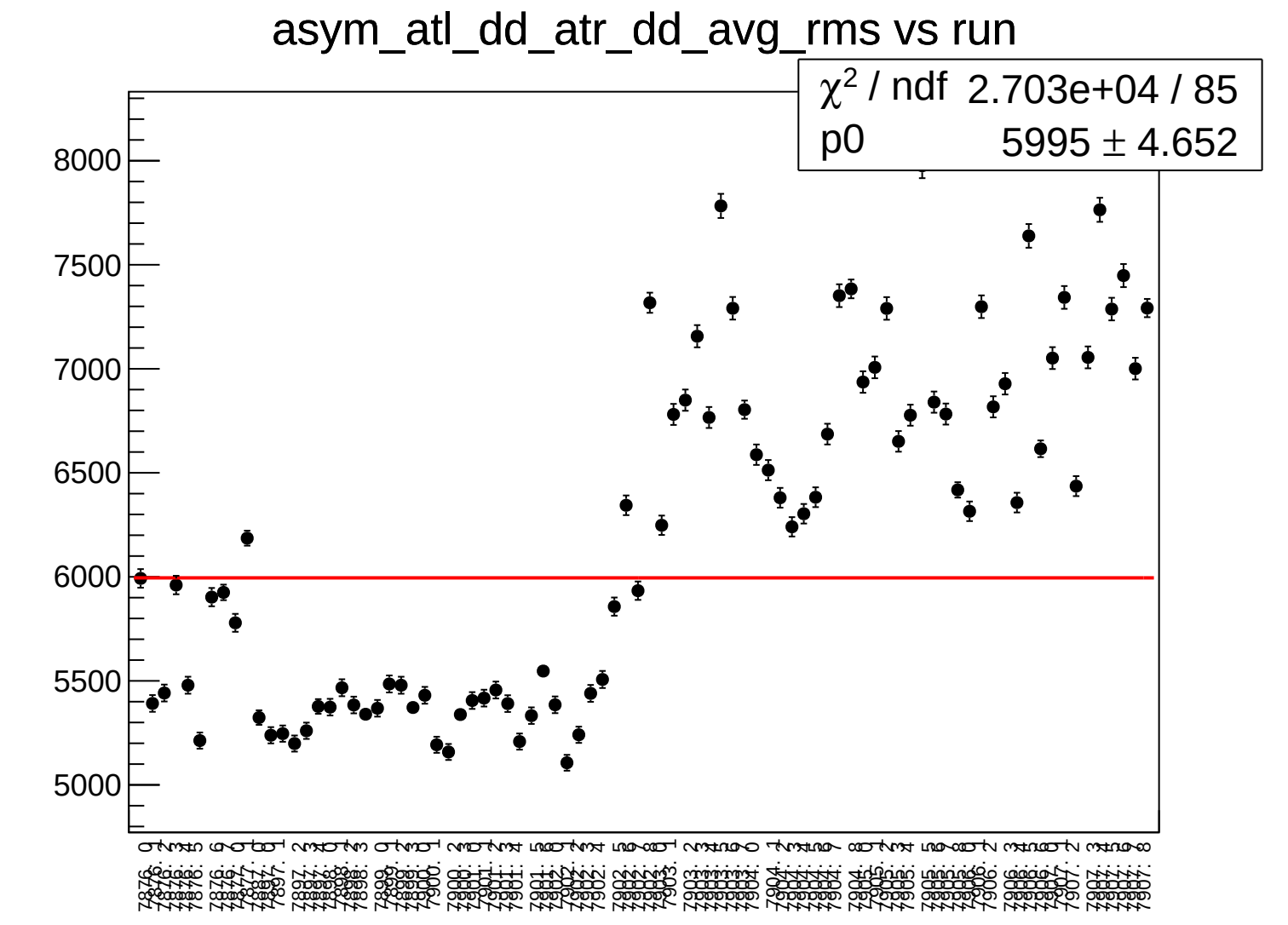

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.28 / 85
p0 −9644 ± 6646
pull
Entries 86
Mean 212.5
Std Dev 0

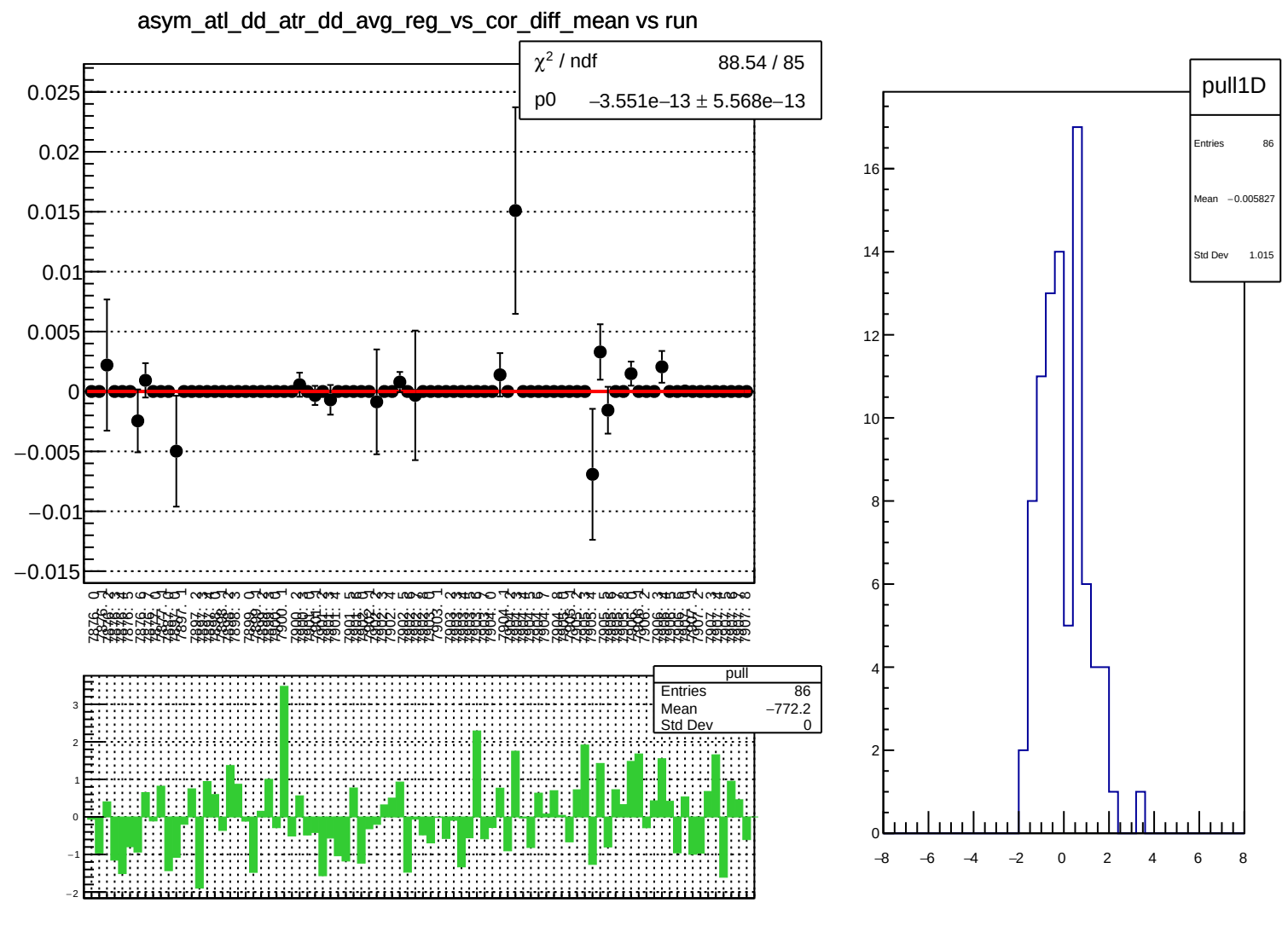

pull1D
Entries 86
Mean 0.006421
Std Dev 0.9167

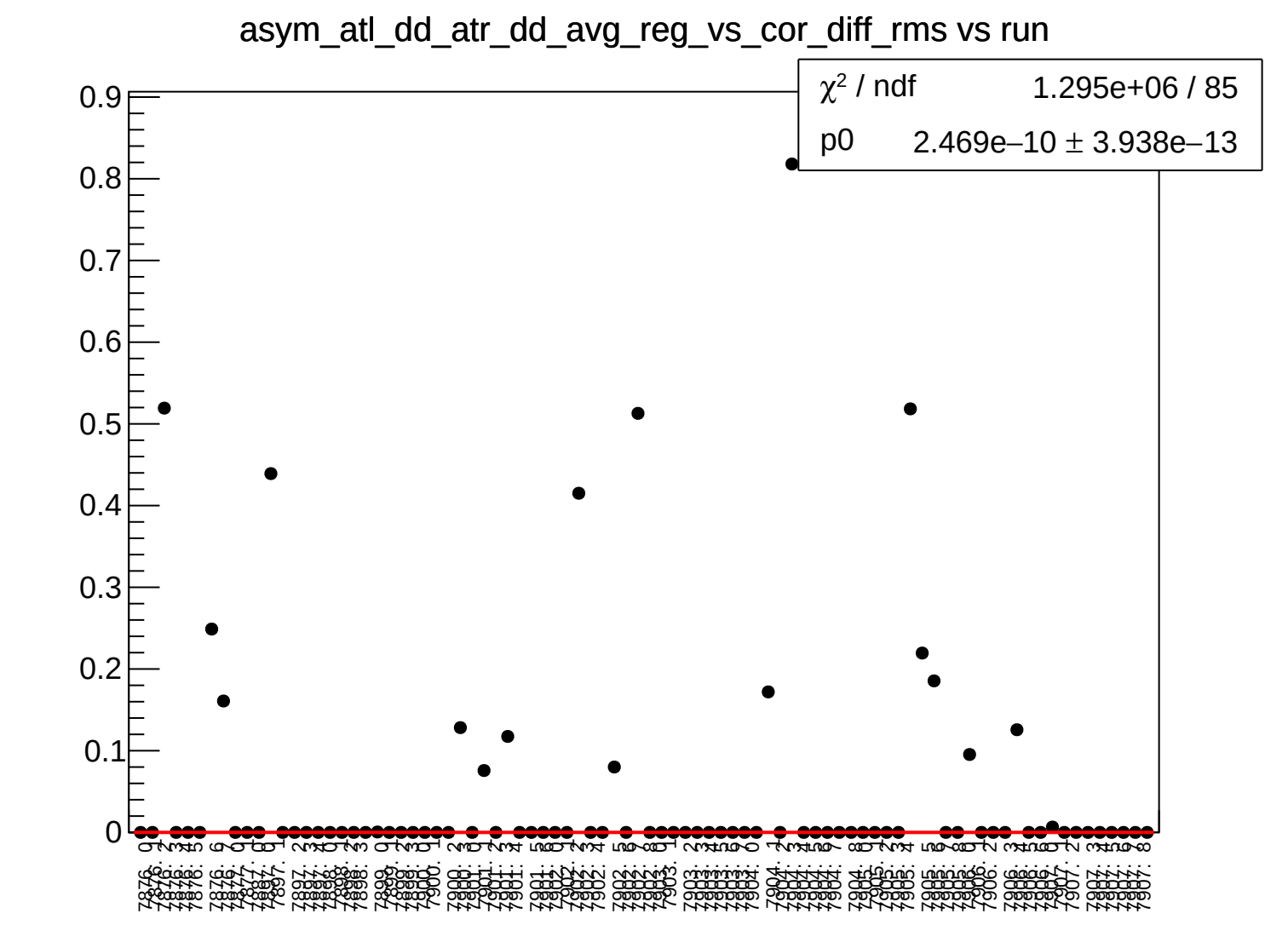

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.283e+04 / 85
p0 6046 ± 4.699
8500
8000
7500
7000
6500
6000
5500
5000

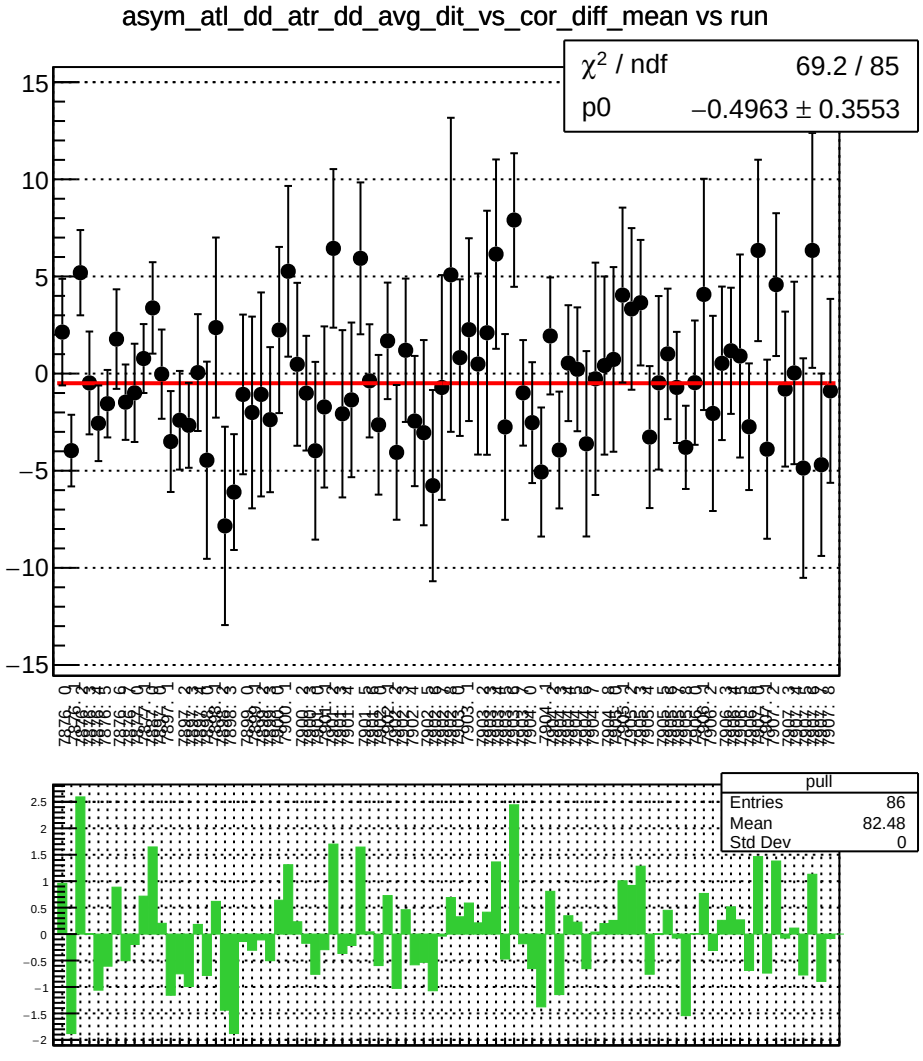

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 77.87 / 85
p0 9615 ± 6579
200
100
0
−100
−200
−300
pull
Entries 86
Mean 222.4
Std Dev 0
2
1
0
−1
−2
−3

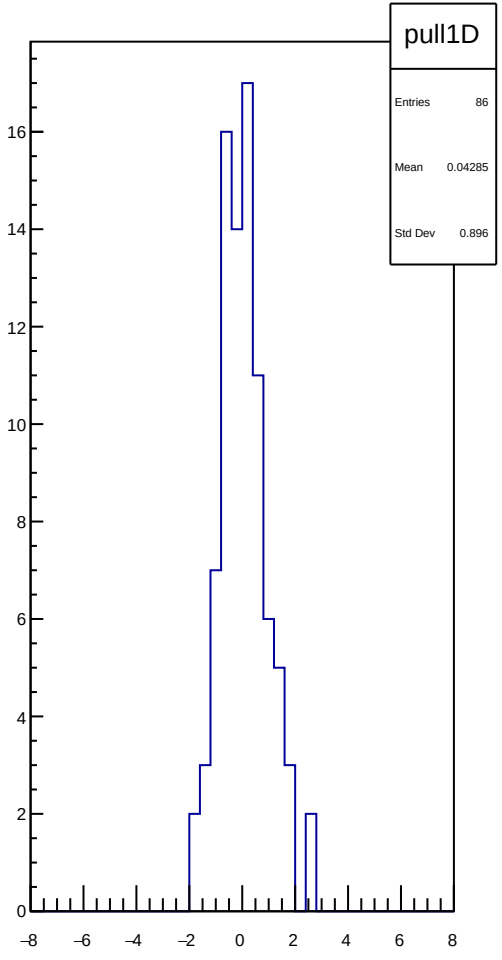

pull1D
Entries 86
Mean −0.008427
Std Dev 0.9515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

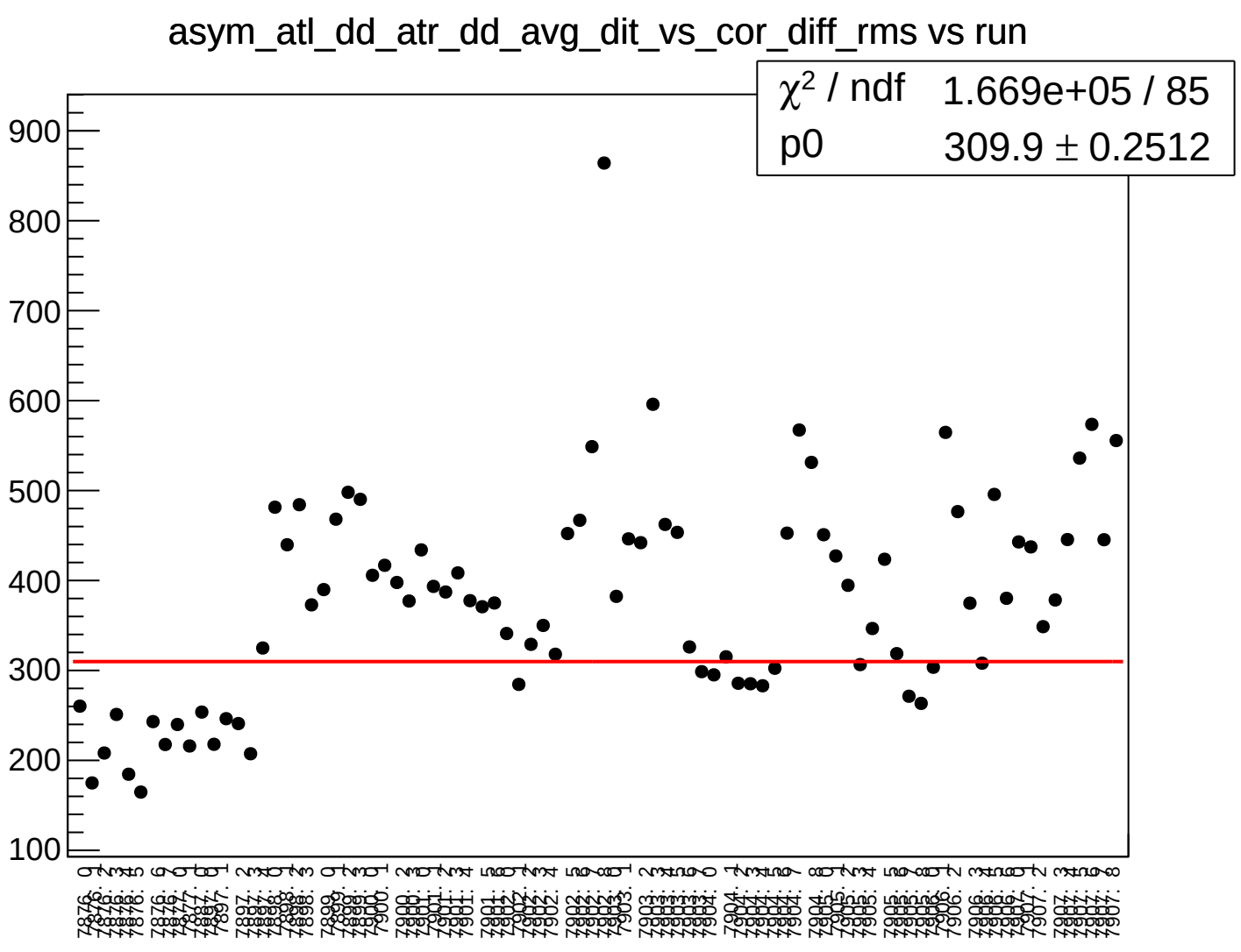

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 2.703e+04 / 85
p0 5995 ± 4.652
8000
7500
7000
6500
6000
5500
5000

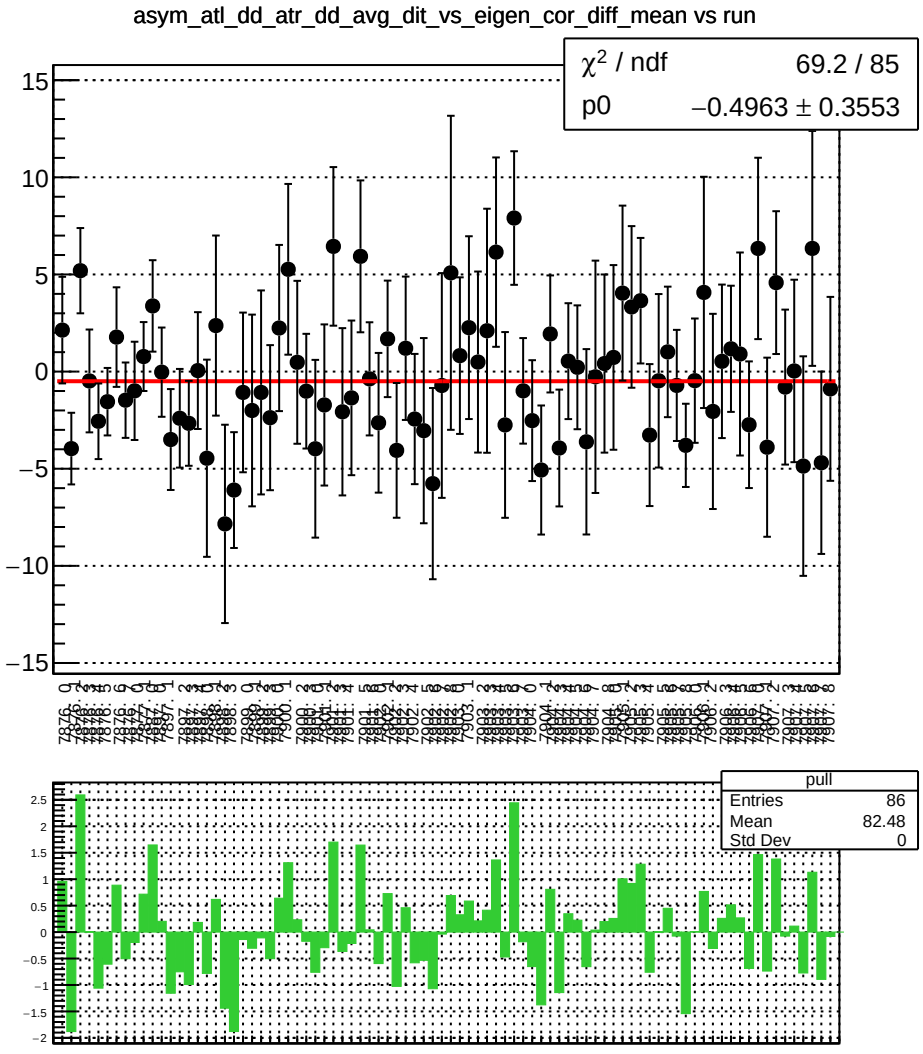

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.54 / 85
p0 −3.551e−13 ± 5.568e−13
pull
Entries 86
Mean −772.2
Std Dev 0
pull1D
Entries 86
Mean −0.005827
Std Dev 1.015

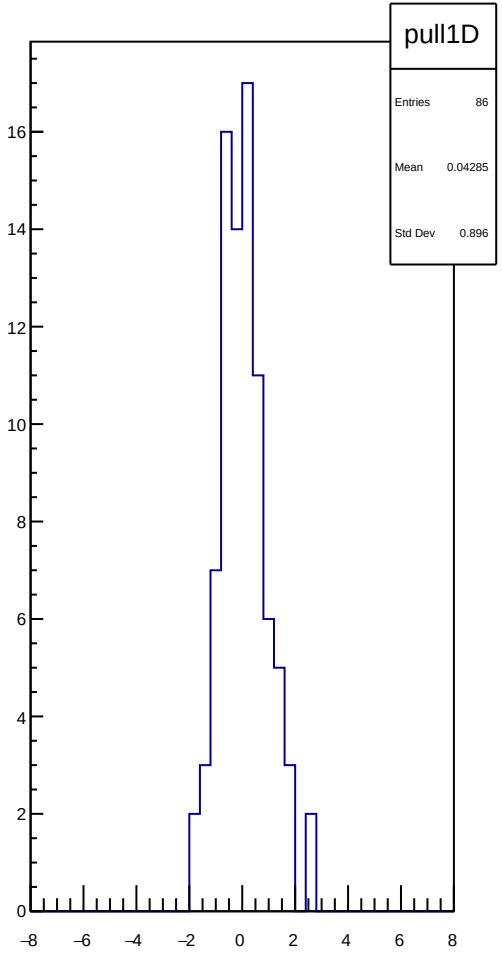

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.295e+06 / 85
p0 2.469e−10 ± 3.938e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

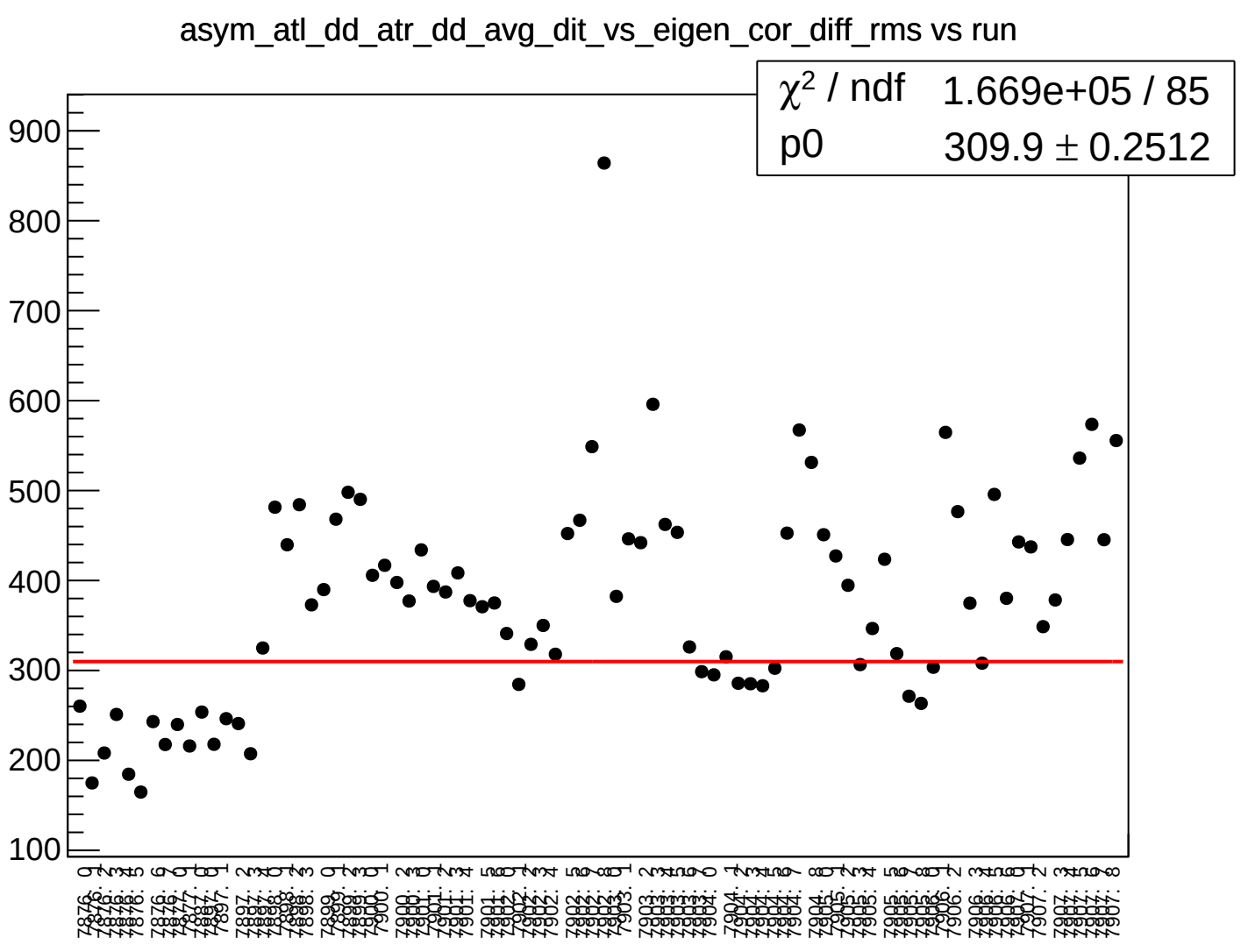

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0

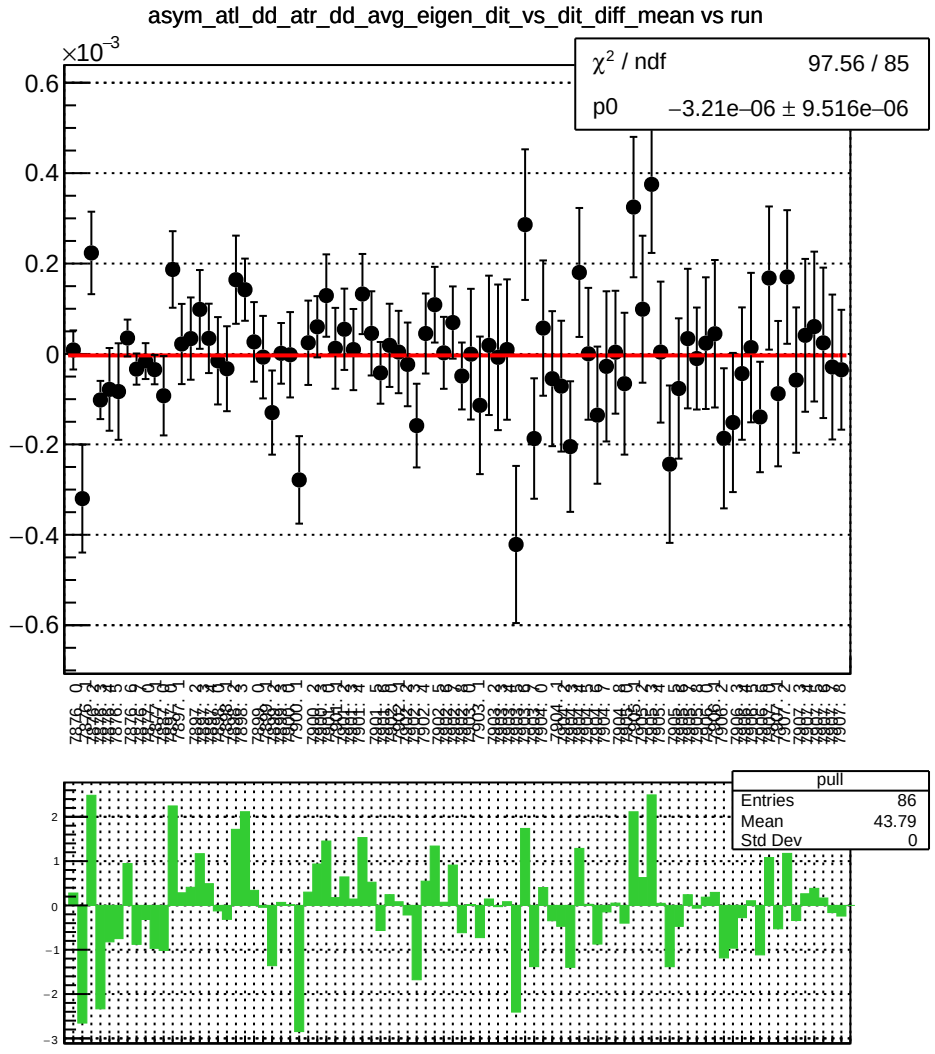

pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

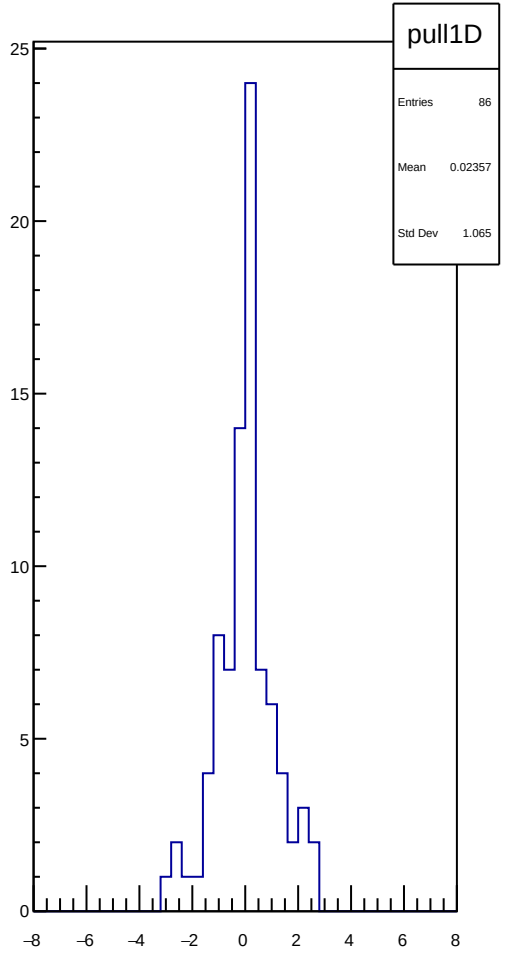

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

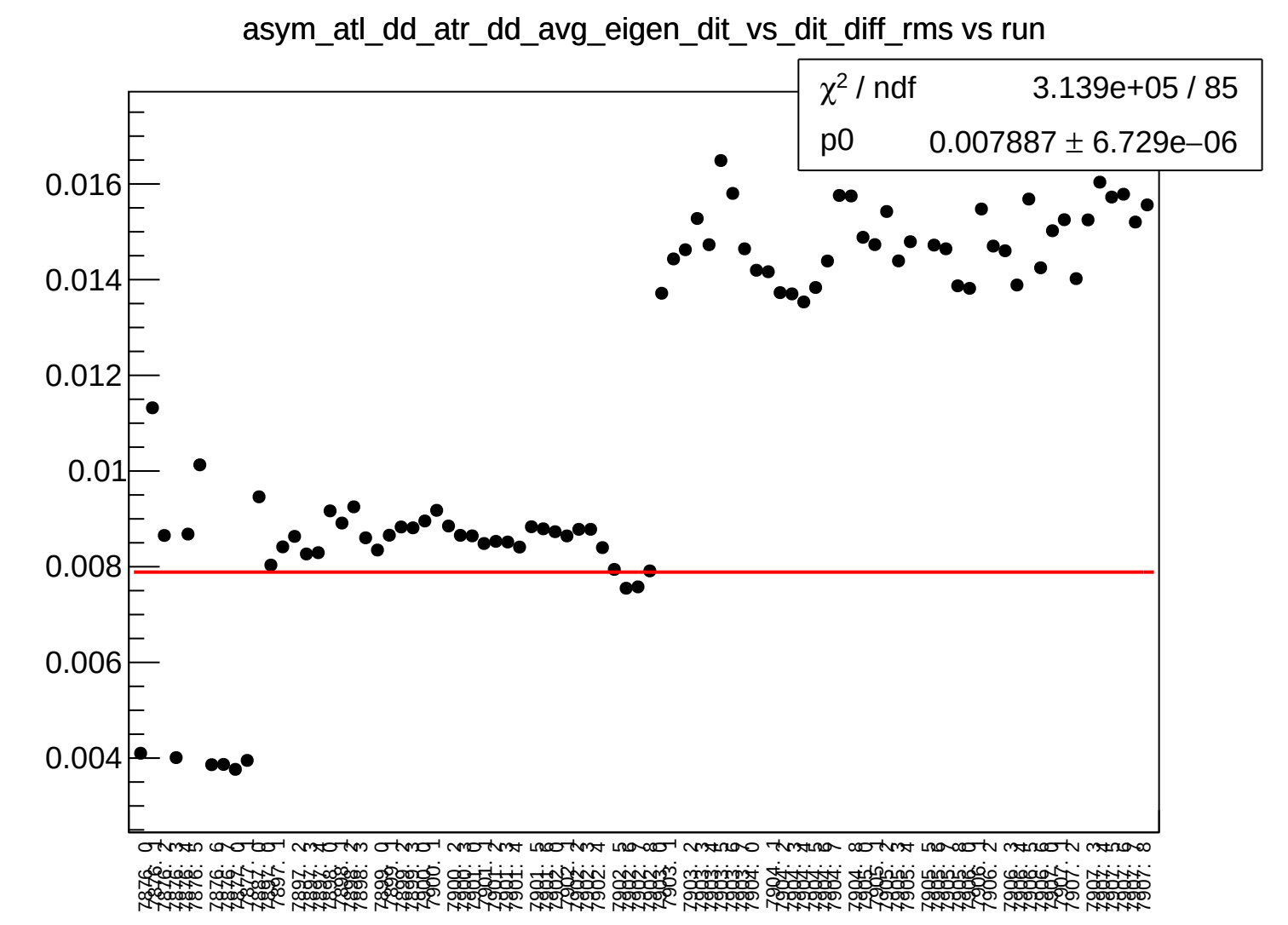

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0

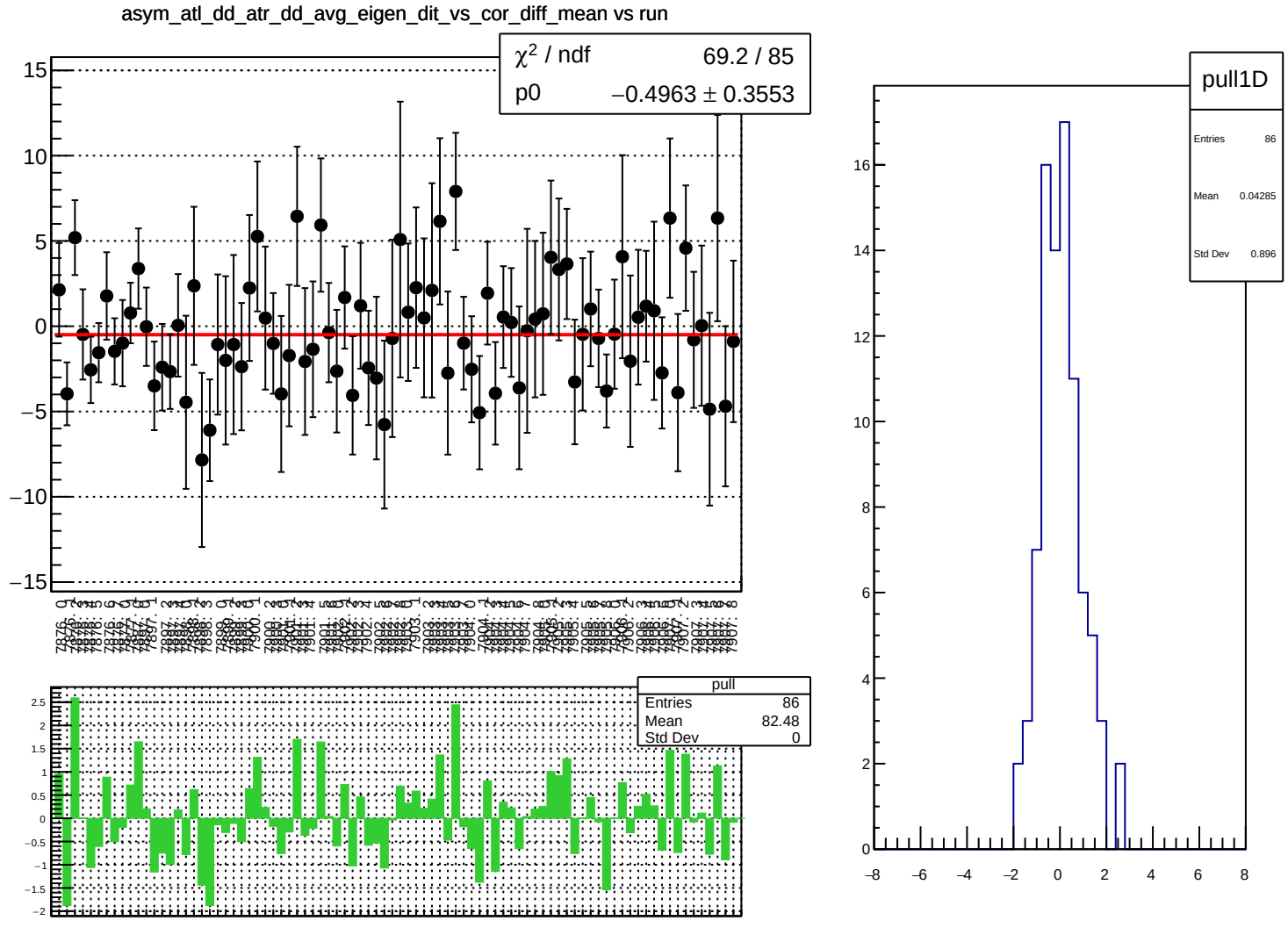

pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

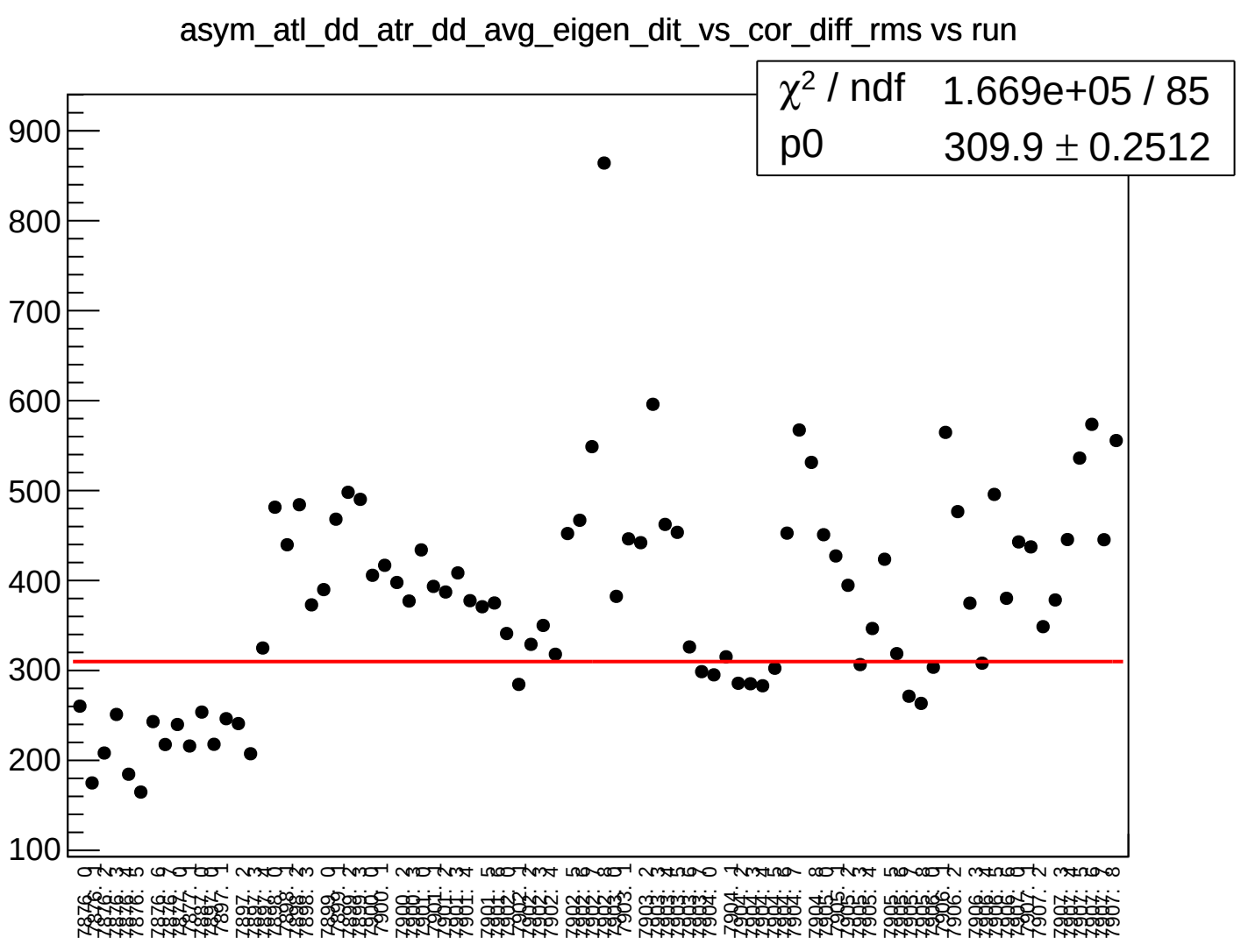

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

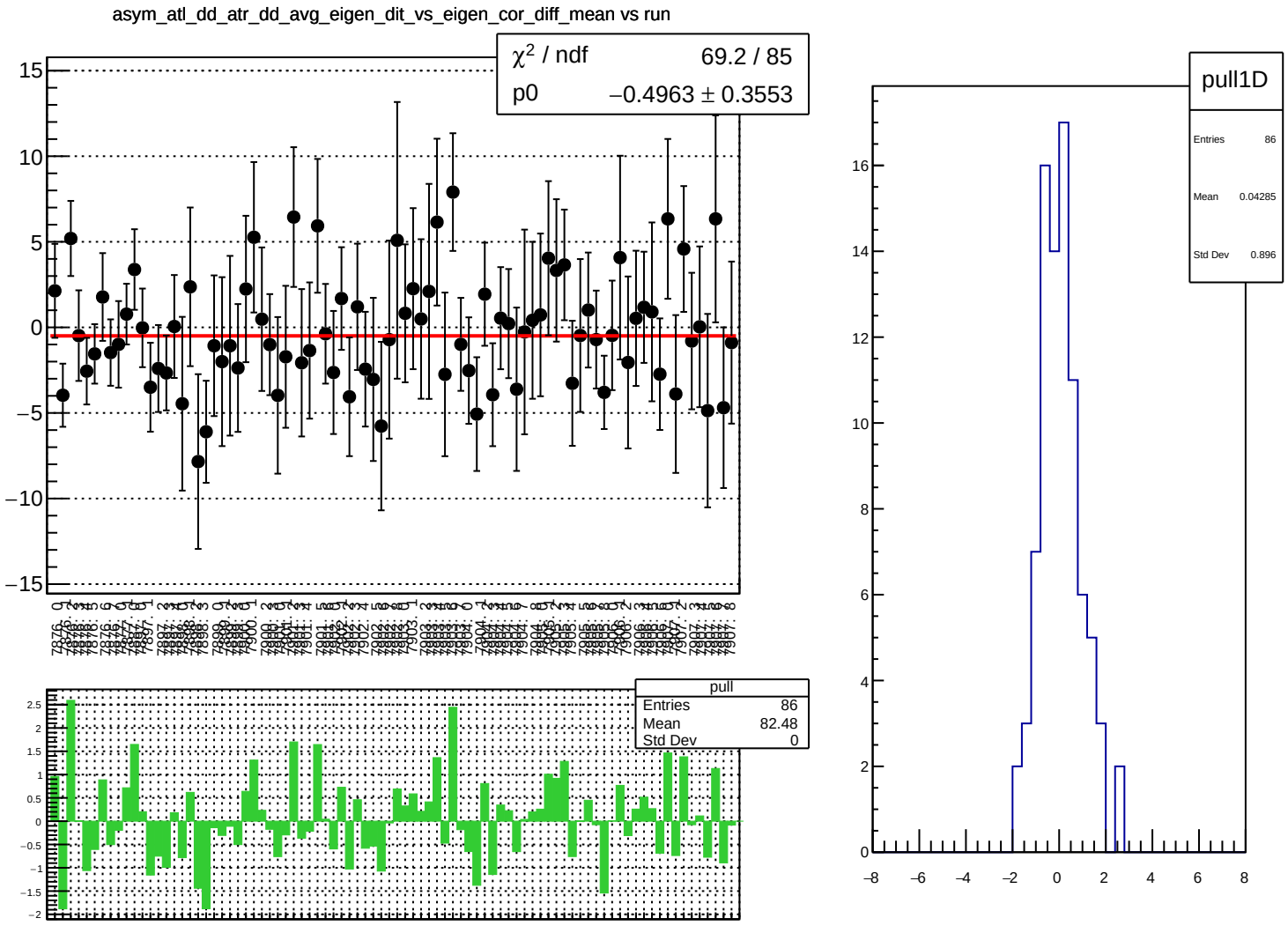

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.56 / 85
p0 −3.21e−06 ± 9.516e−06
pull
Entries 86
Mean 43.79
Std Dev 0

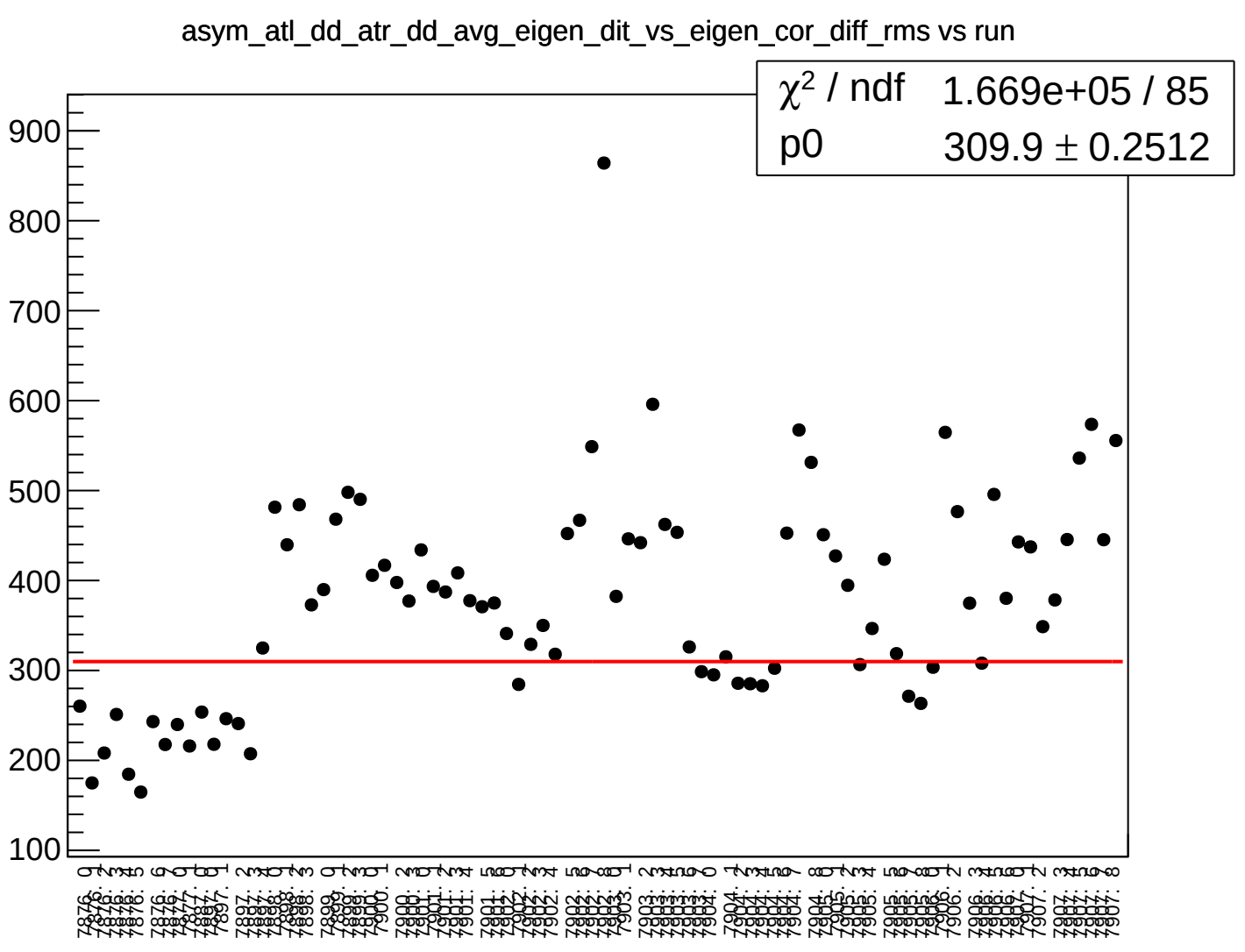

pull1D
Entries 86
Mean 0.02357
Std Dev 1.065

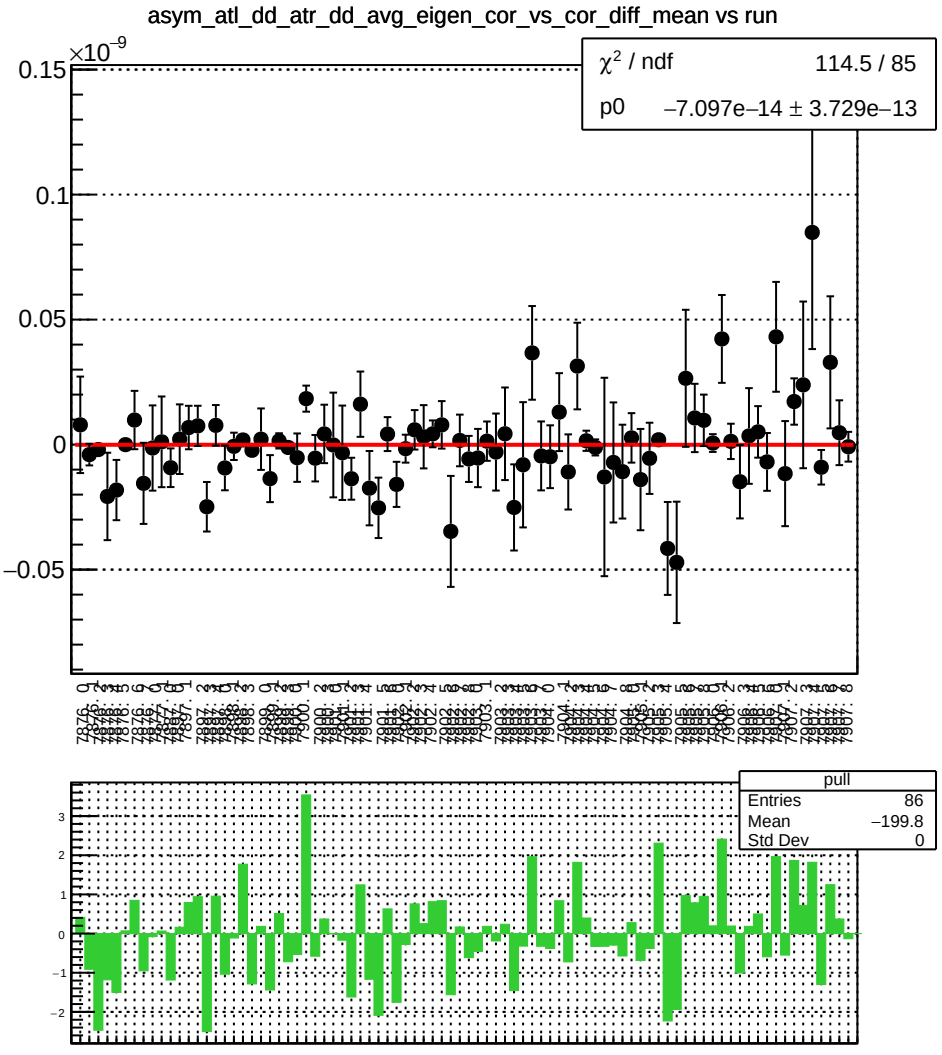

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.139e+05 / 85
p0 0.007887 ± 6.729e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

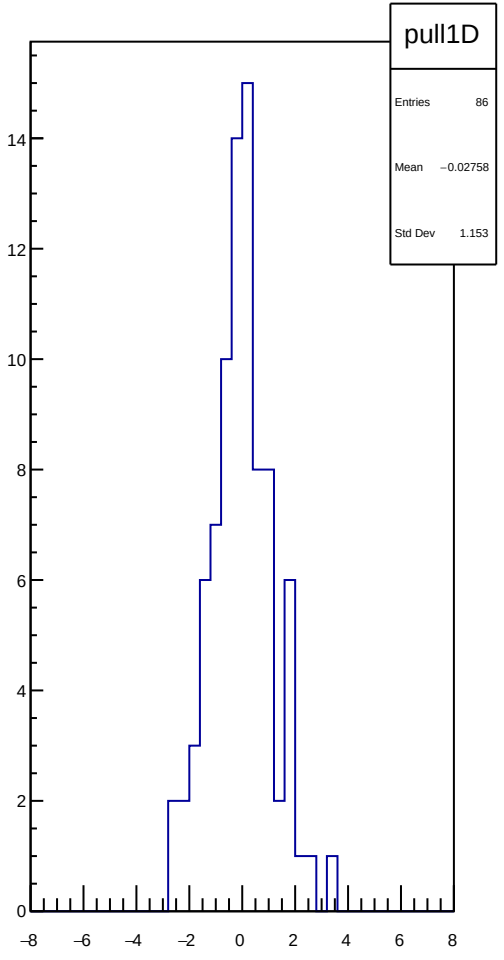

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0
pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

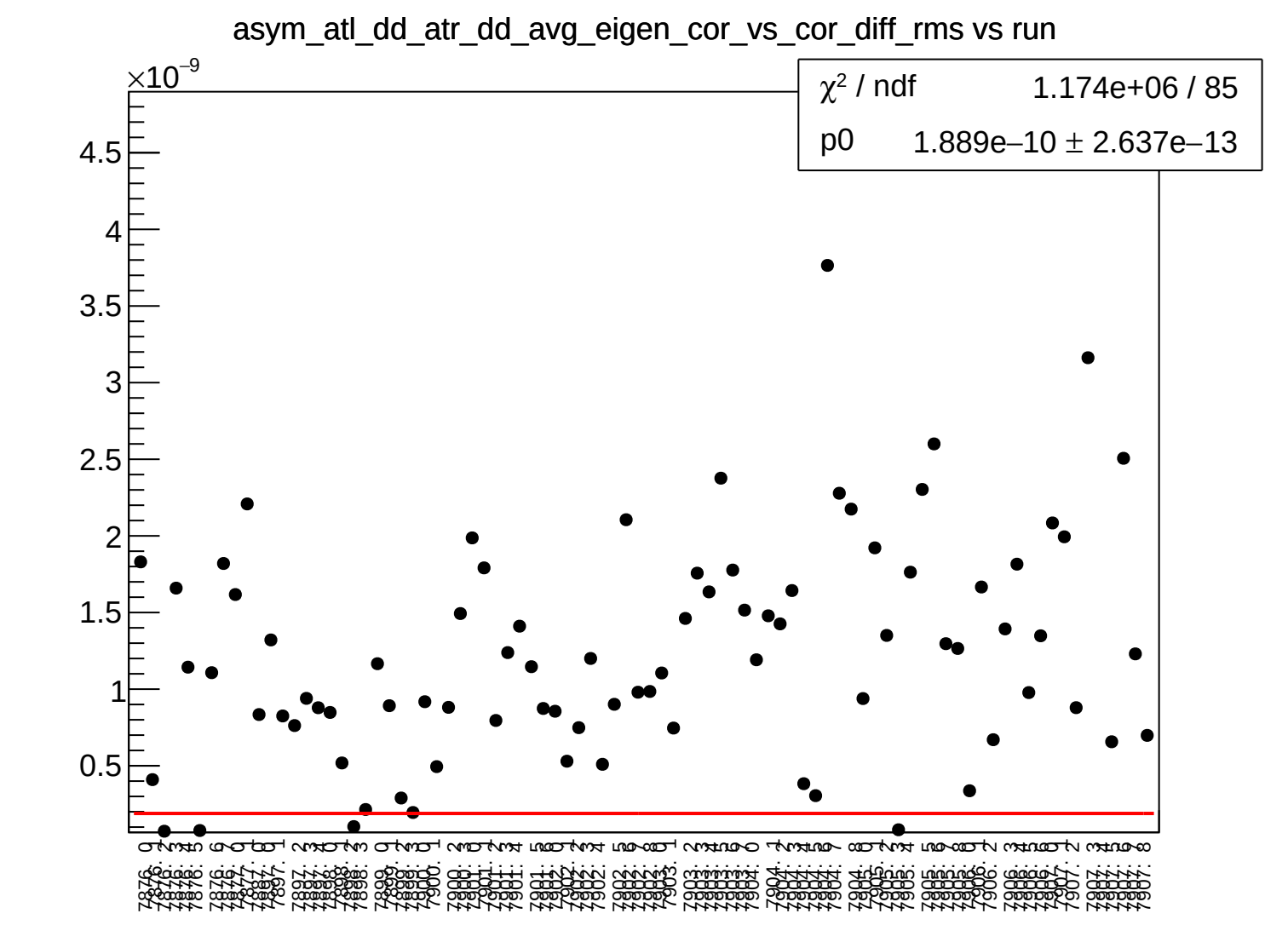

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

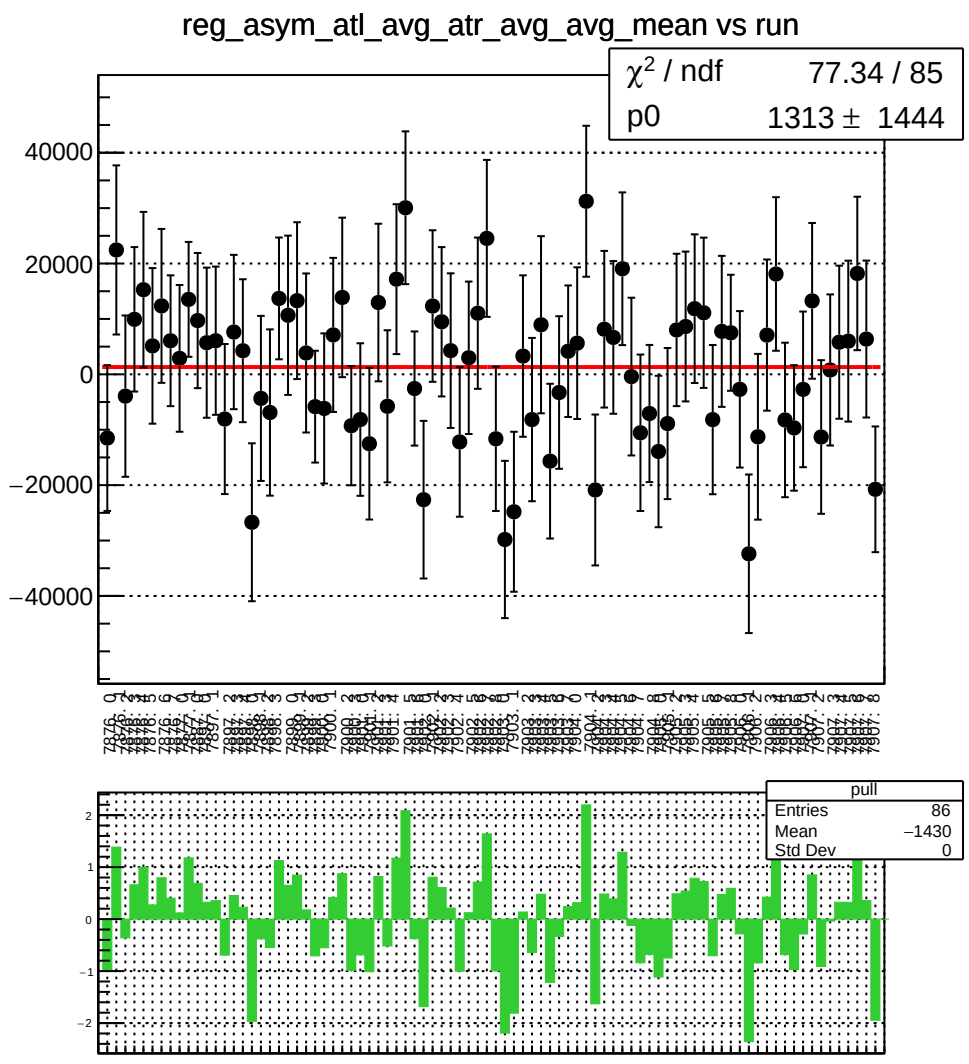

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0
pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

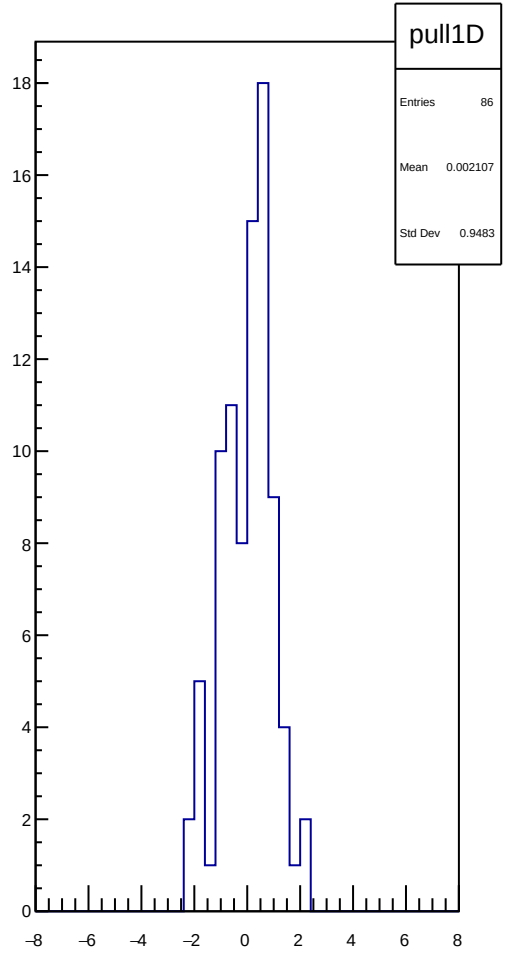

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

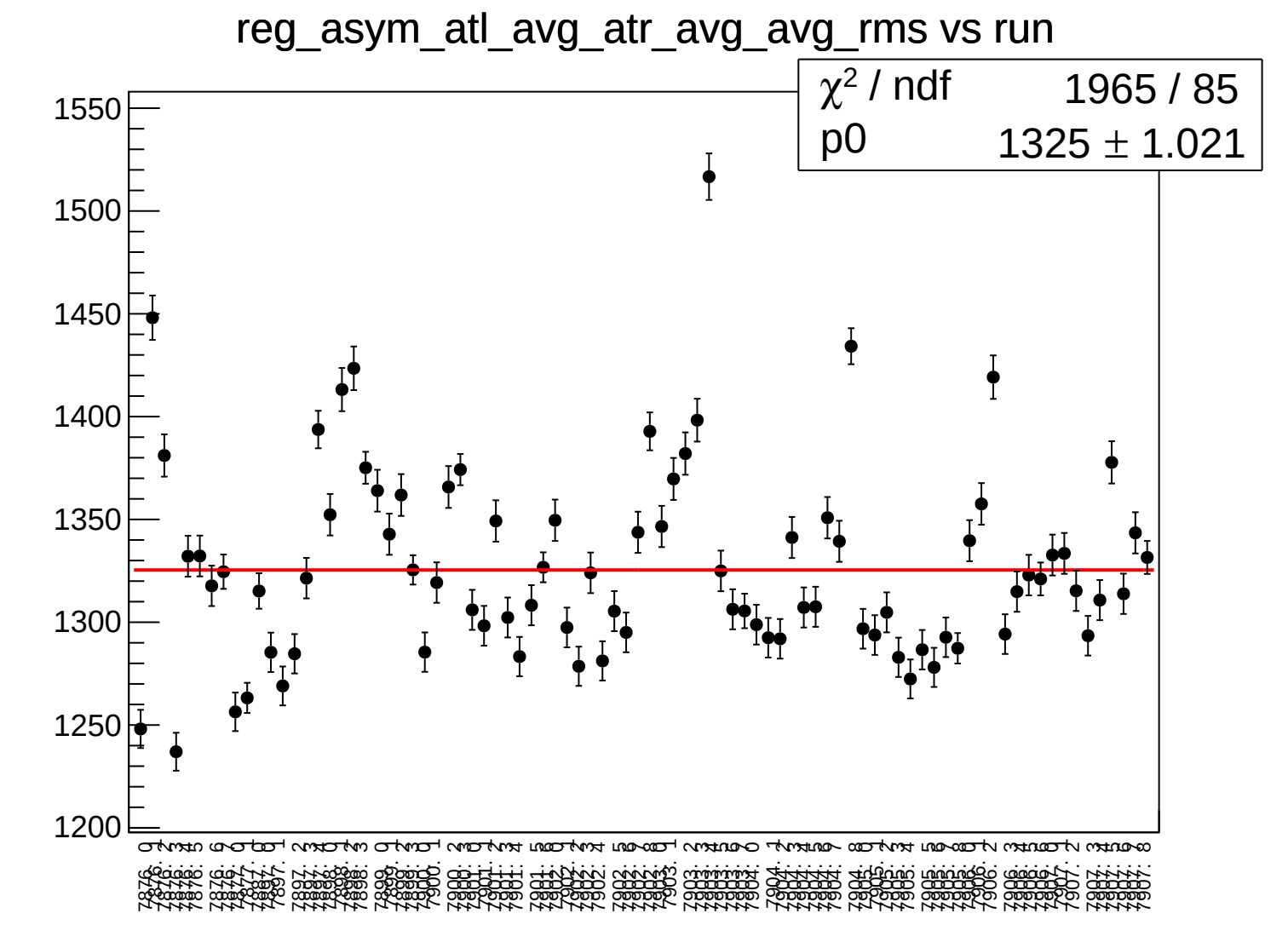

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 114.5 / 85
p0 −7.097e−14 ± 3.729e−13
pull
Entries 86
Mean −199.8
Std Dev 0

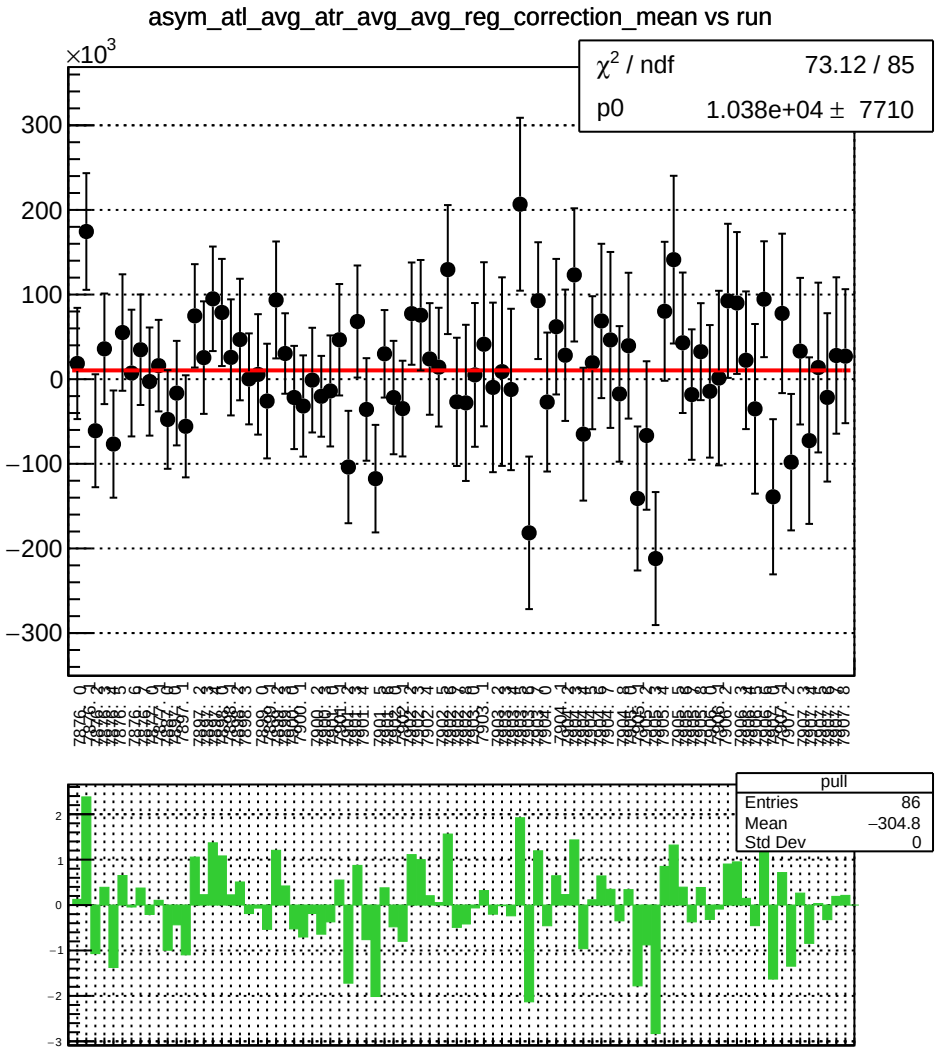

pull1D
Entries 86
Mean −0.02758
Std Dev 1.153

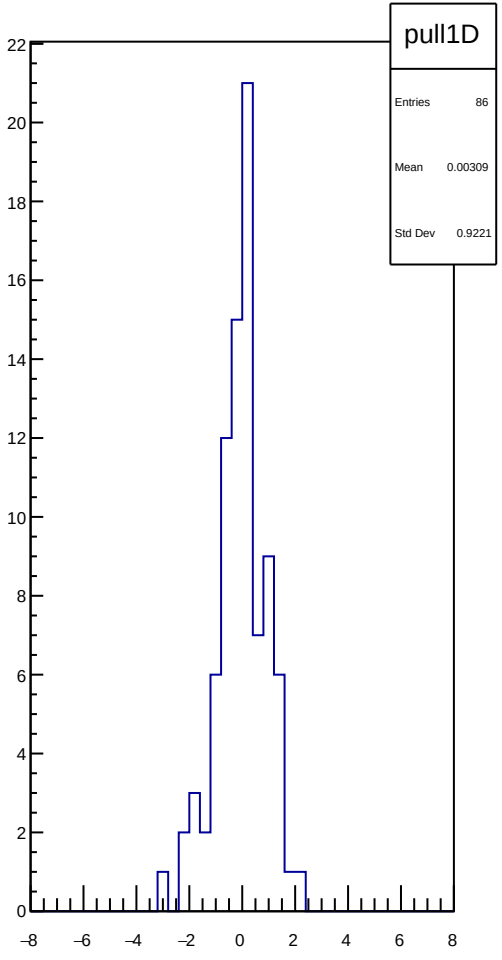

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.174e+06 / 85
p0 1.889e−10 ± 2.637e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

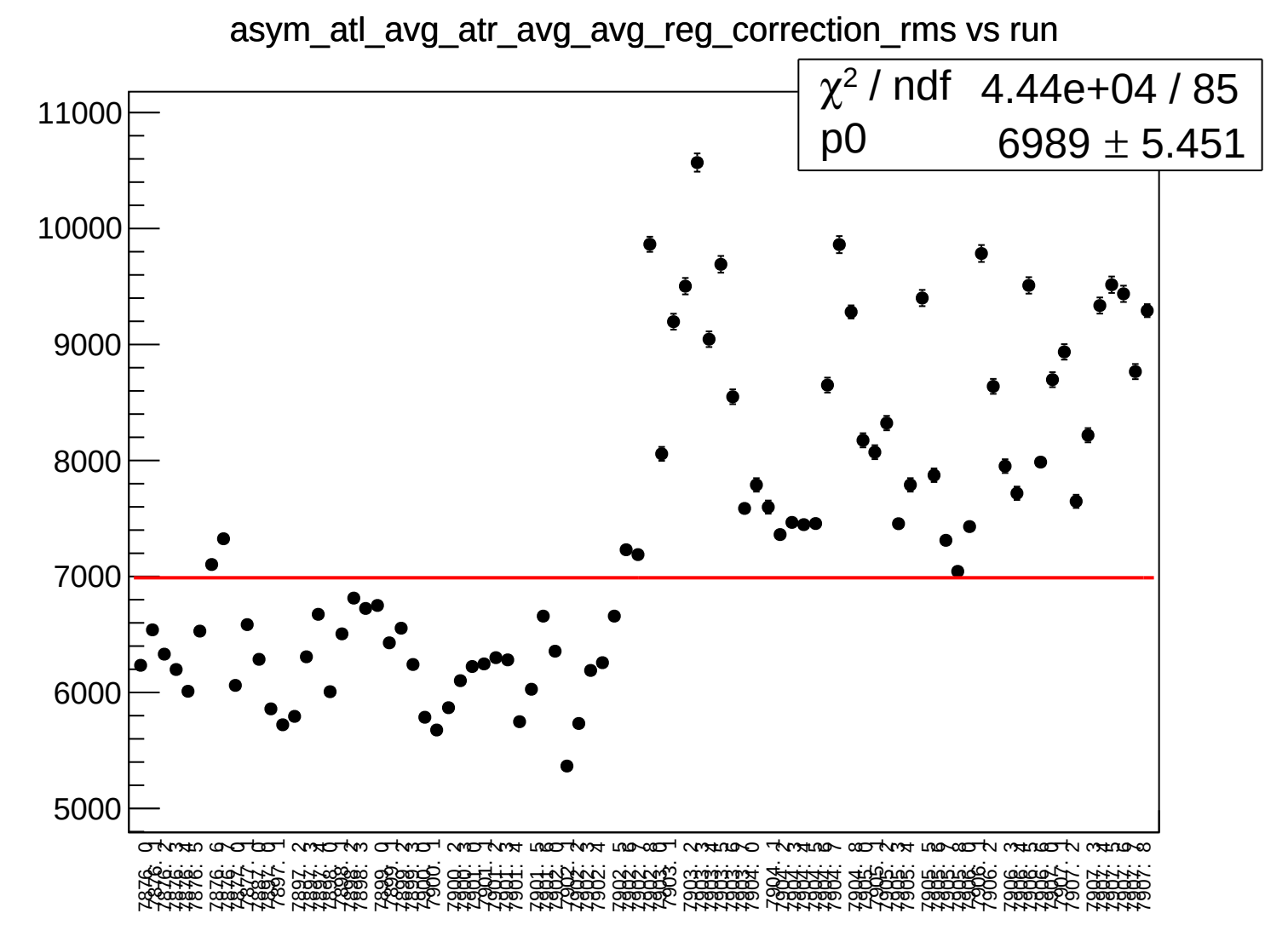

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 77.34 / 85
p0 1313 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1430
Std Dev 0
2
1
0
−1
−2

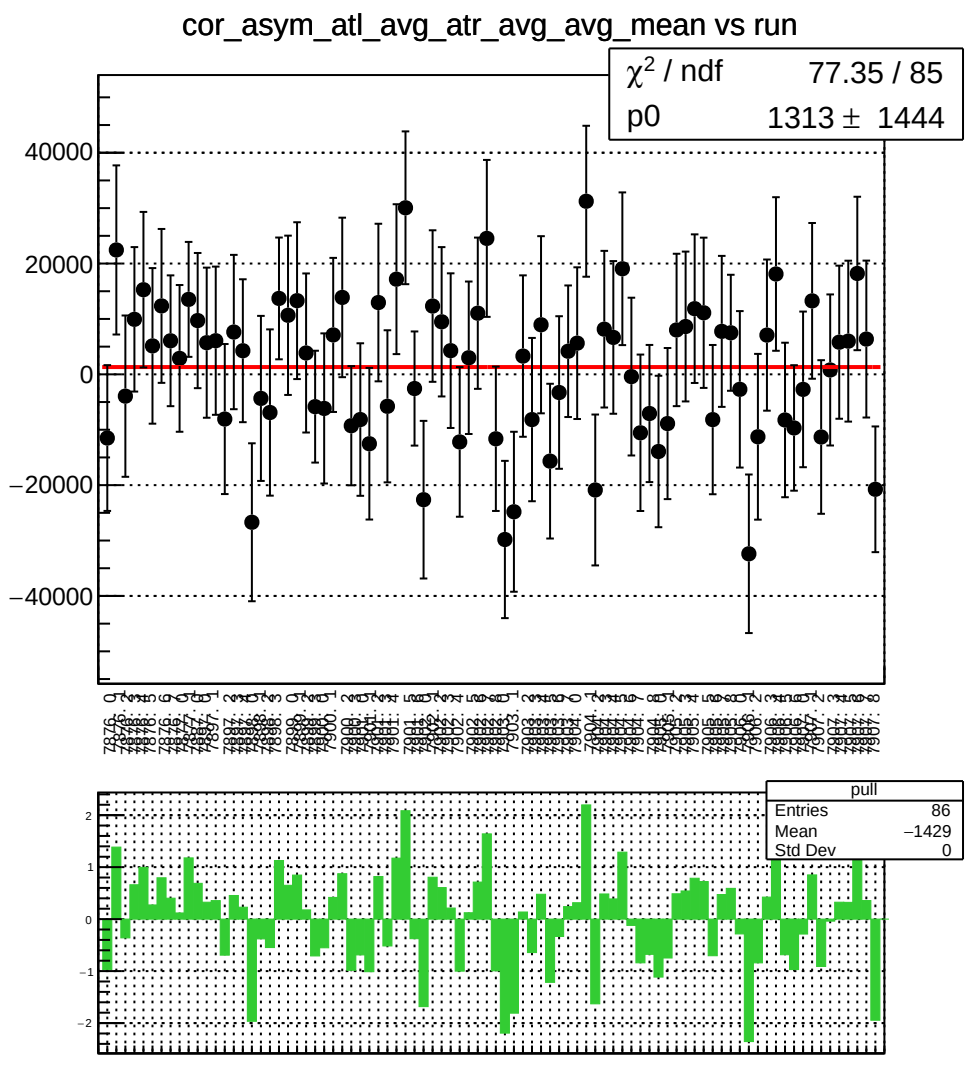

pull1D
Entries 86
Mean 0.002107
Std Dev 0.9483
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

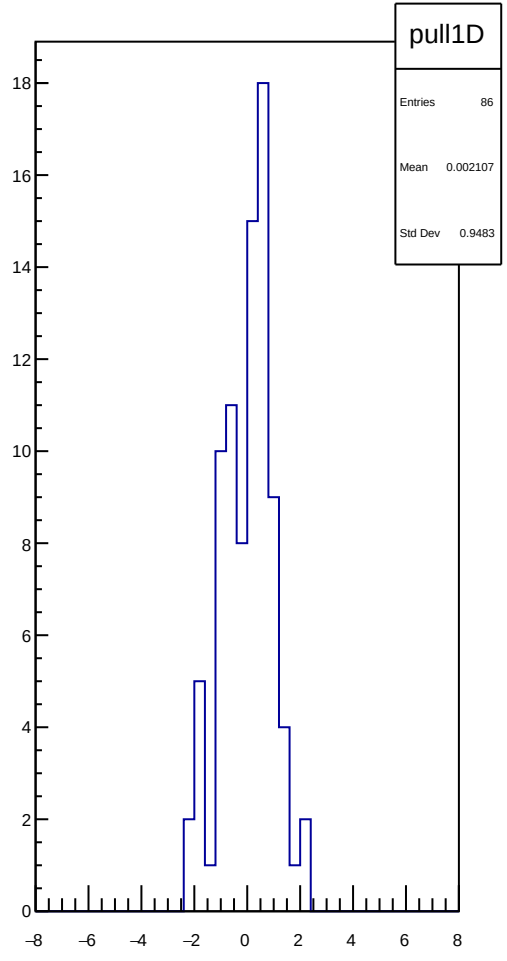

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1965 / 85
p0 1325 ± 1.021
1550
1500
1450
1400
1350
1300
1250
1200

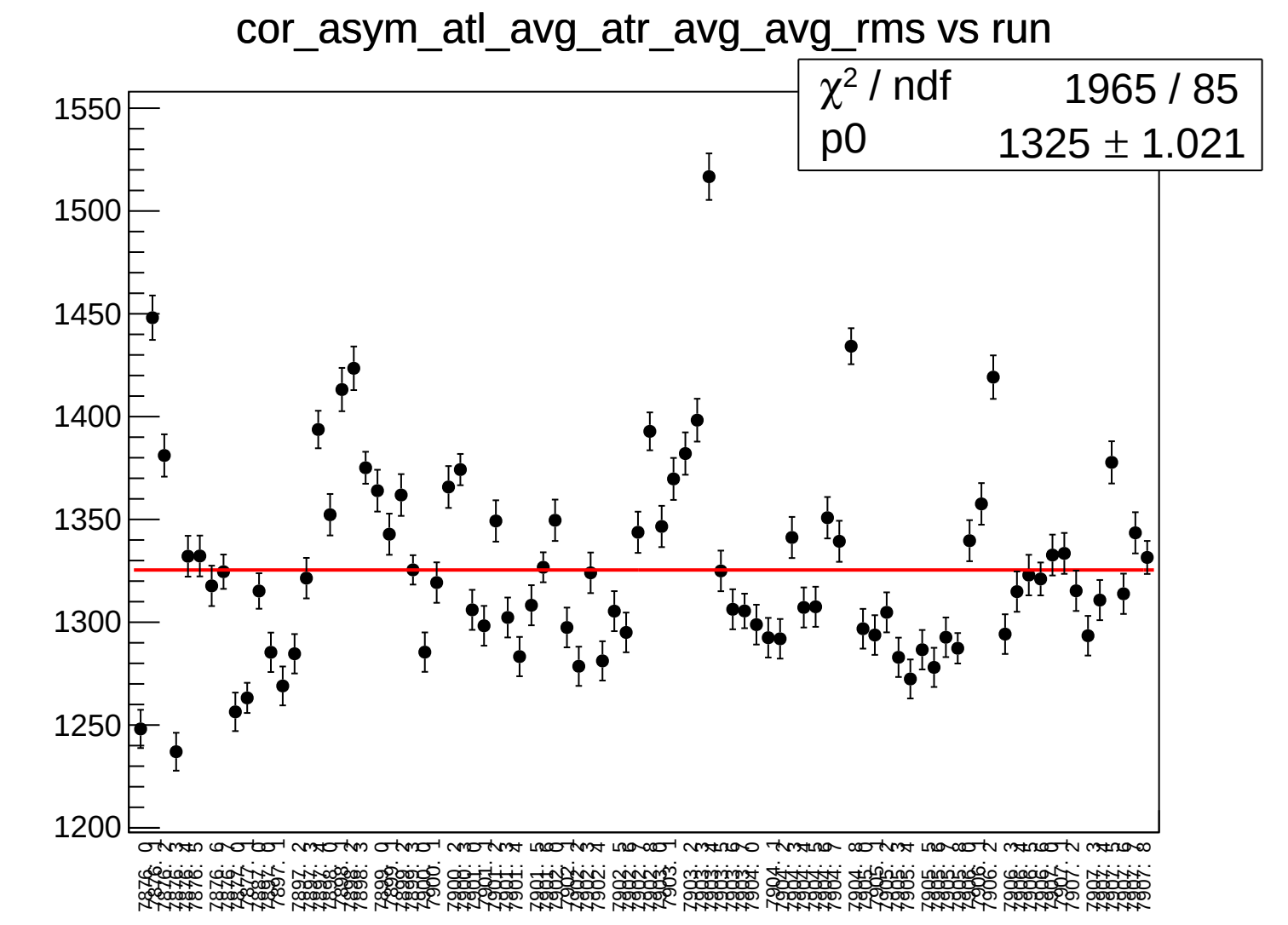

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 73.12 / 85
p0 1.038e+04 ± 7710
pull
Entries 86
Mean −304.8
Std Dev 0

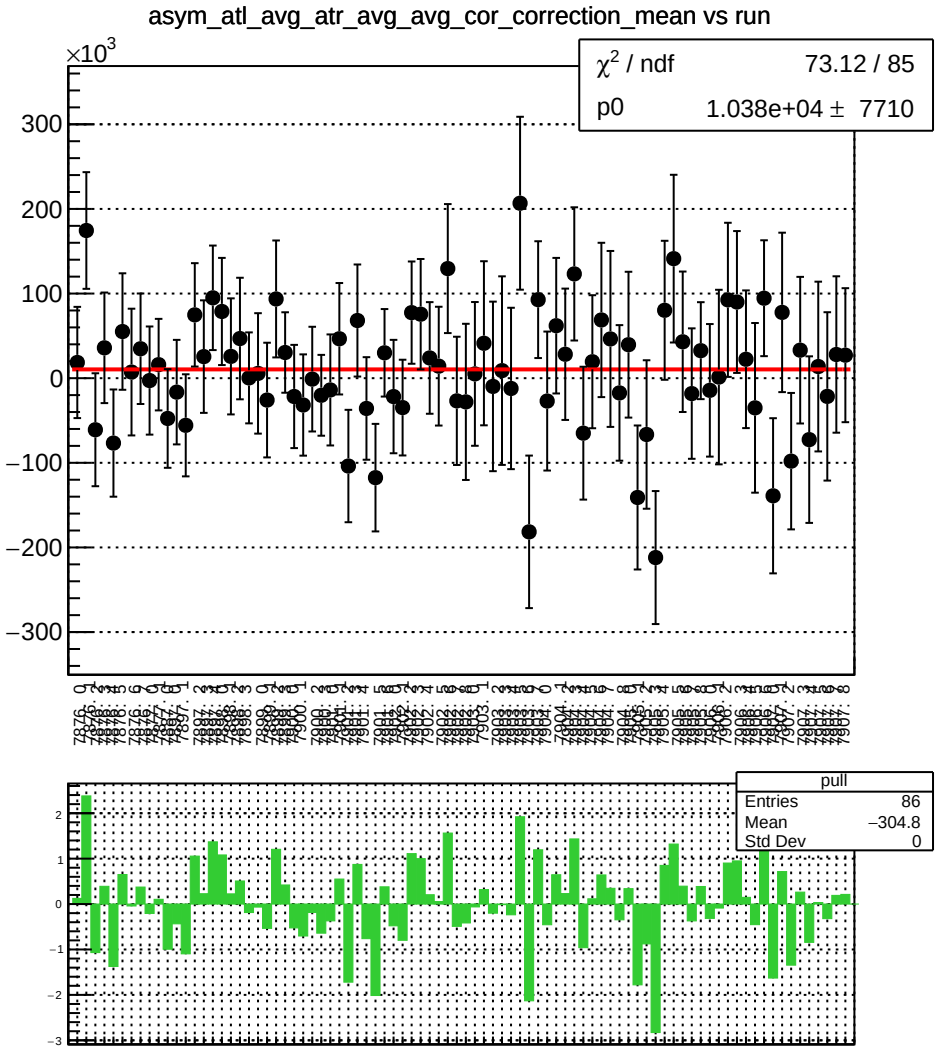

pull1D
Entries 86
Mean 0.00309
Std Dev 0.9221

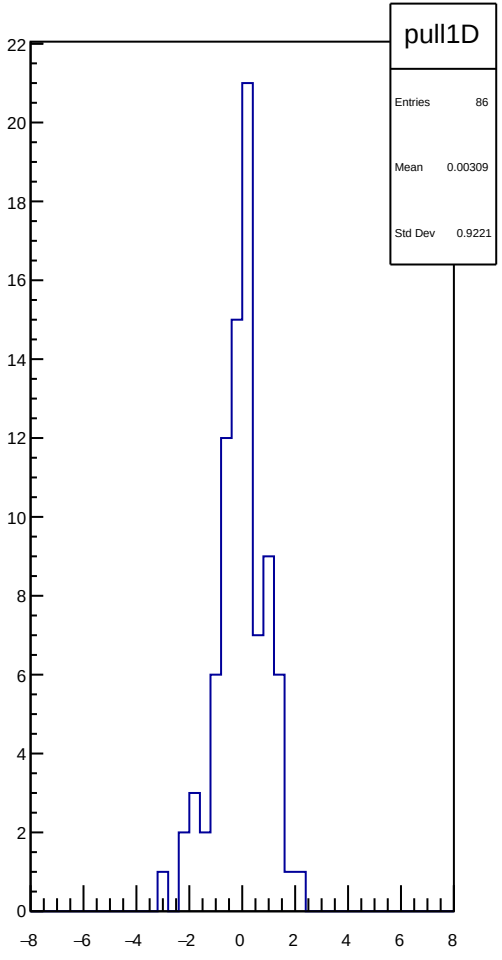

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4.44e+04 / 85
p0 6989 ± 5.451
11000
10000
9000
8000
7000
6000
5000

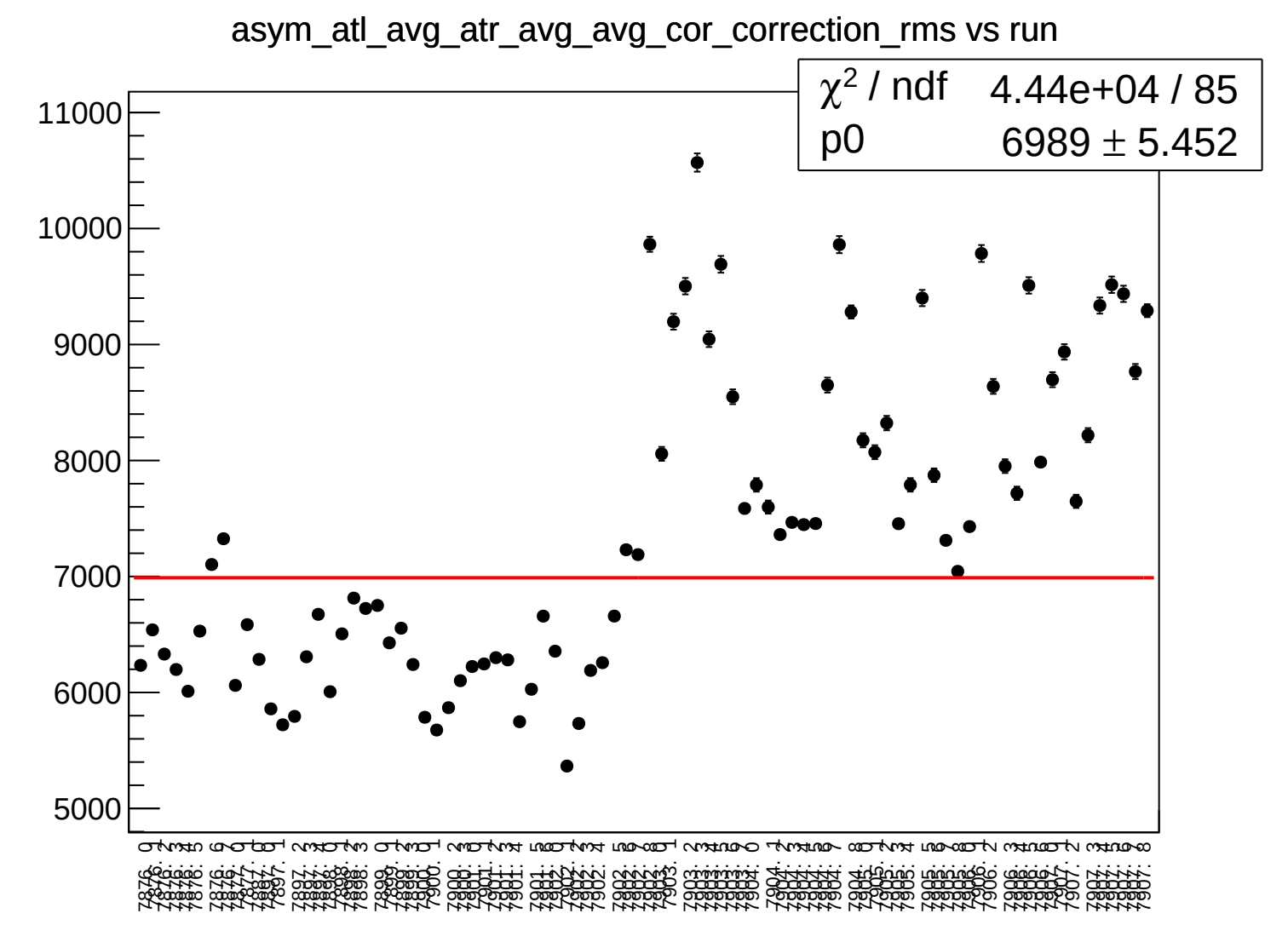

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 77.35 / 85
p0 1313 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1429
Std Dev 0
2
1
0
−1
−2

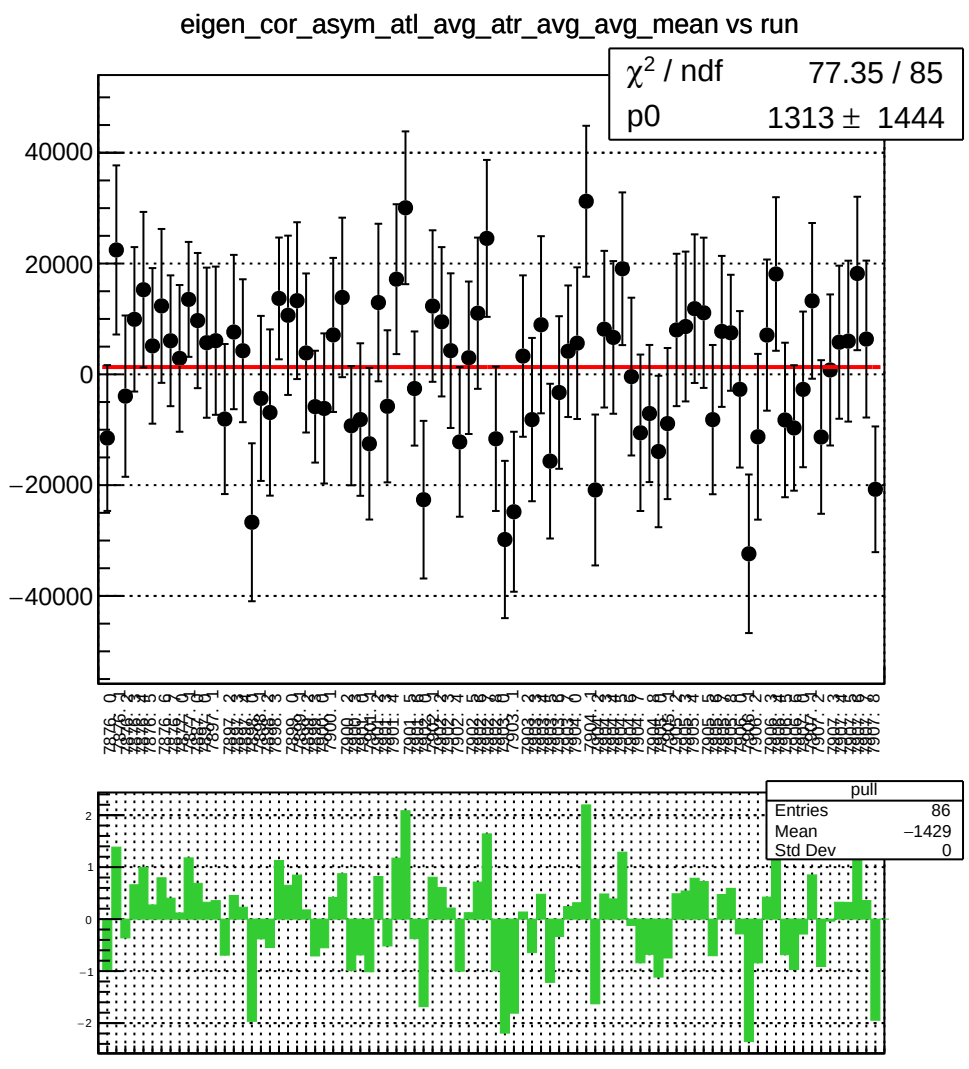

pull1D
Entries 86
Mean 0.002107
Std Dev 0.9483
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

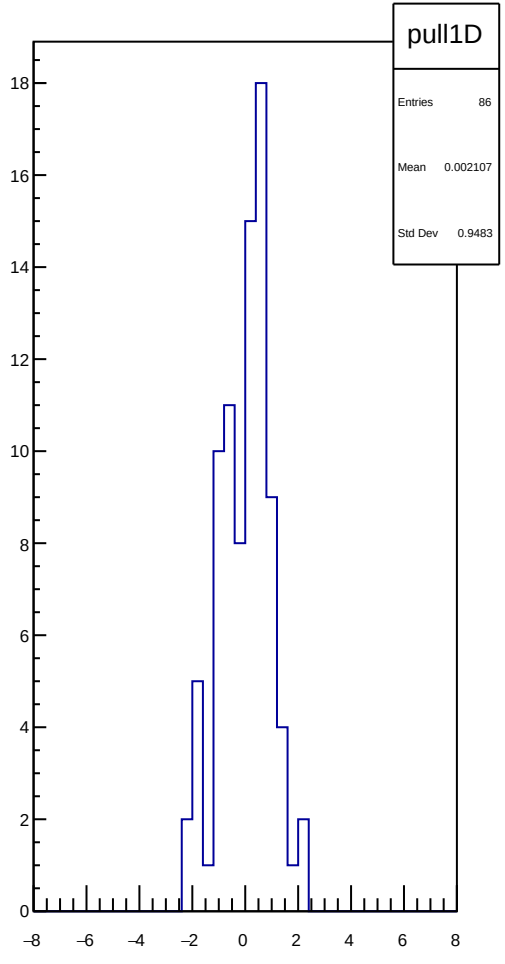

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 1965 / 85
p0 1325 ± 1.021
1550
1500
1450
1400
1350
1300
1250
1200

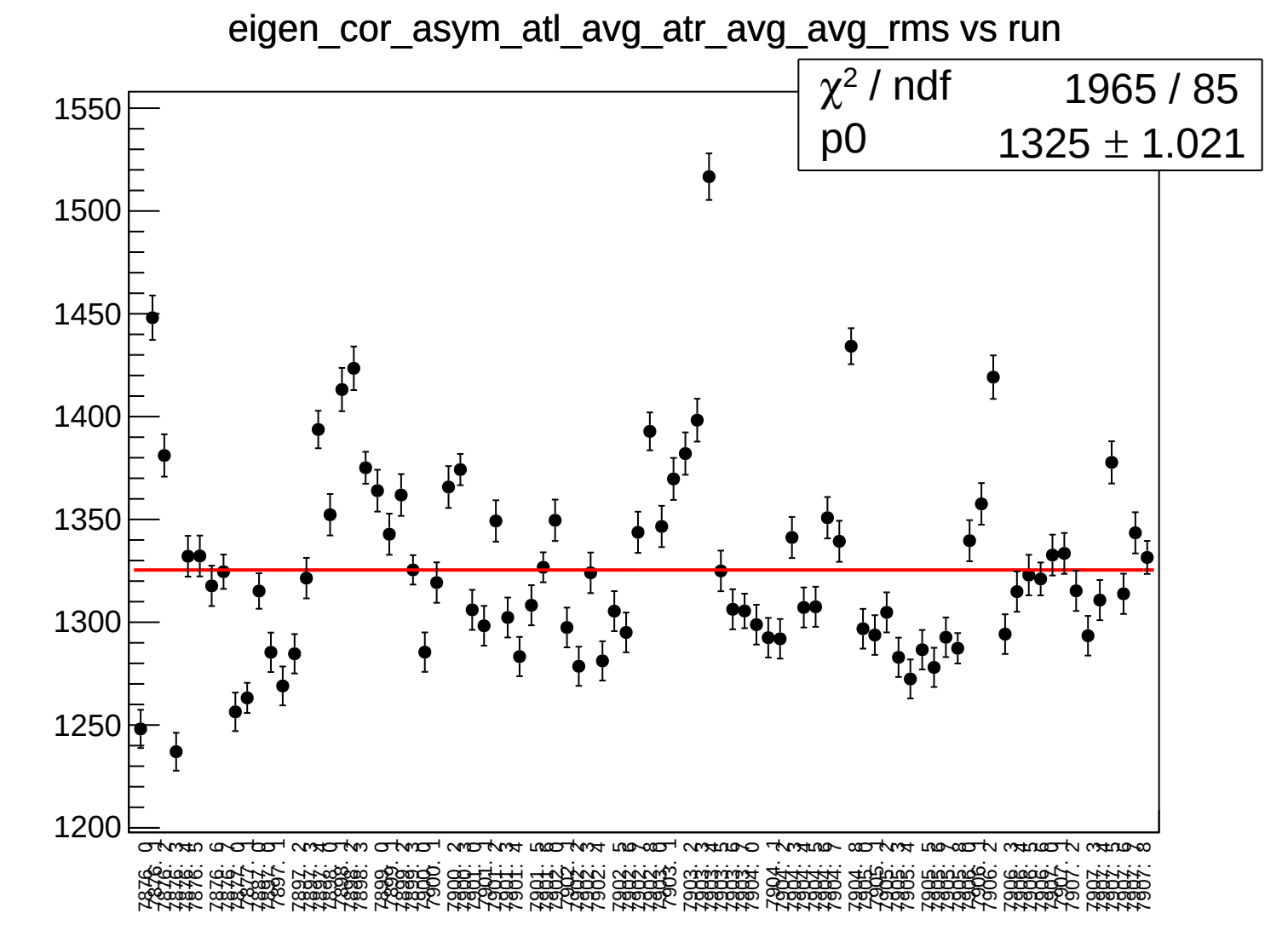

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 73.12 / 85
p0 1.038e+04 ± 7710
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −304.8
Std Dev 0
2
1
0
−1
−2
−3

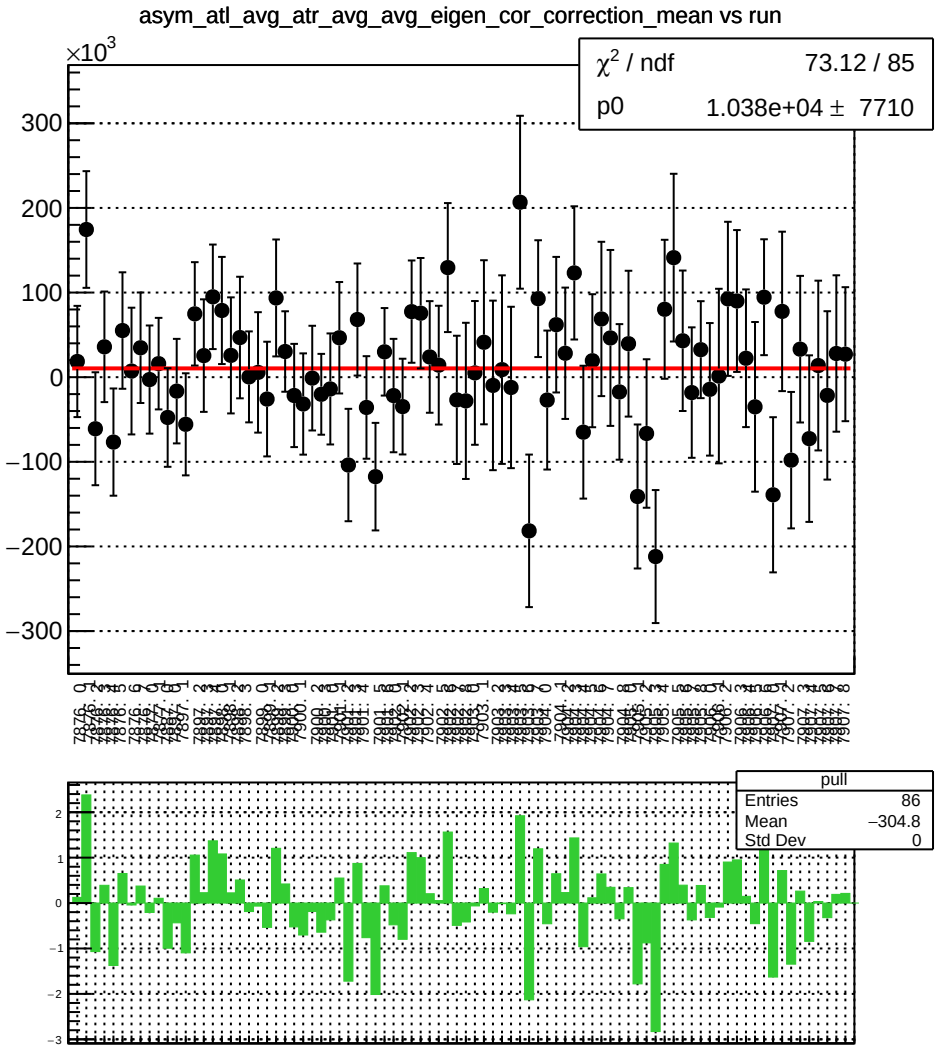

pull1D
Entries 86
Mean 0.00309
Std Dev 0.9221
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

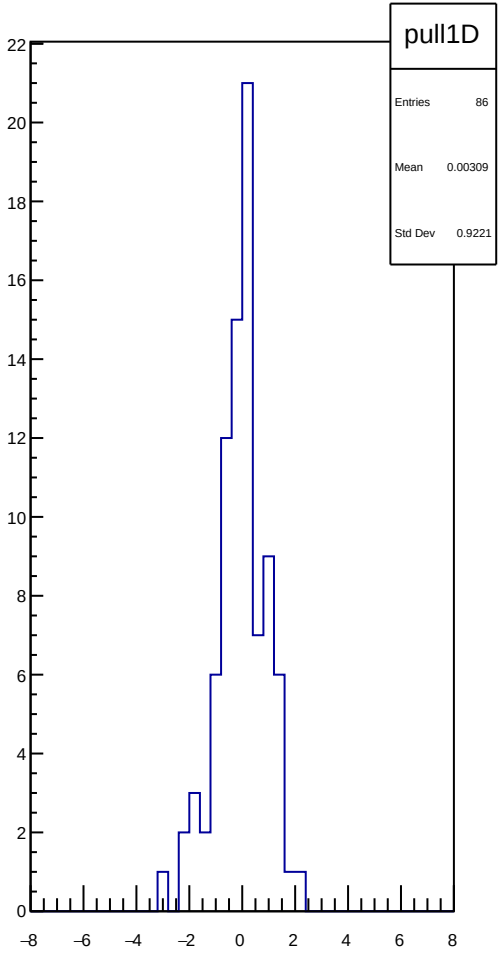

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 4.44e+04 / 85
p0 6989 ± 5.452
11000
10000
9000
8000
7000
6000
5000

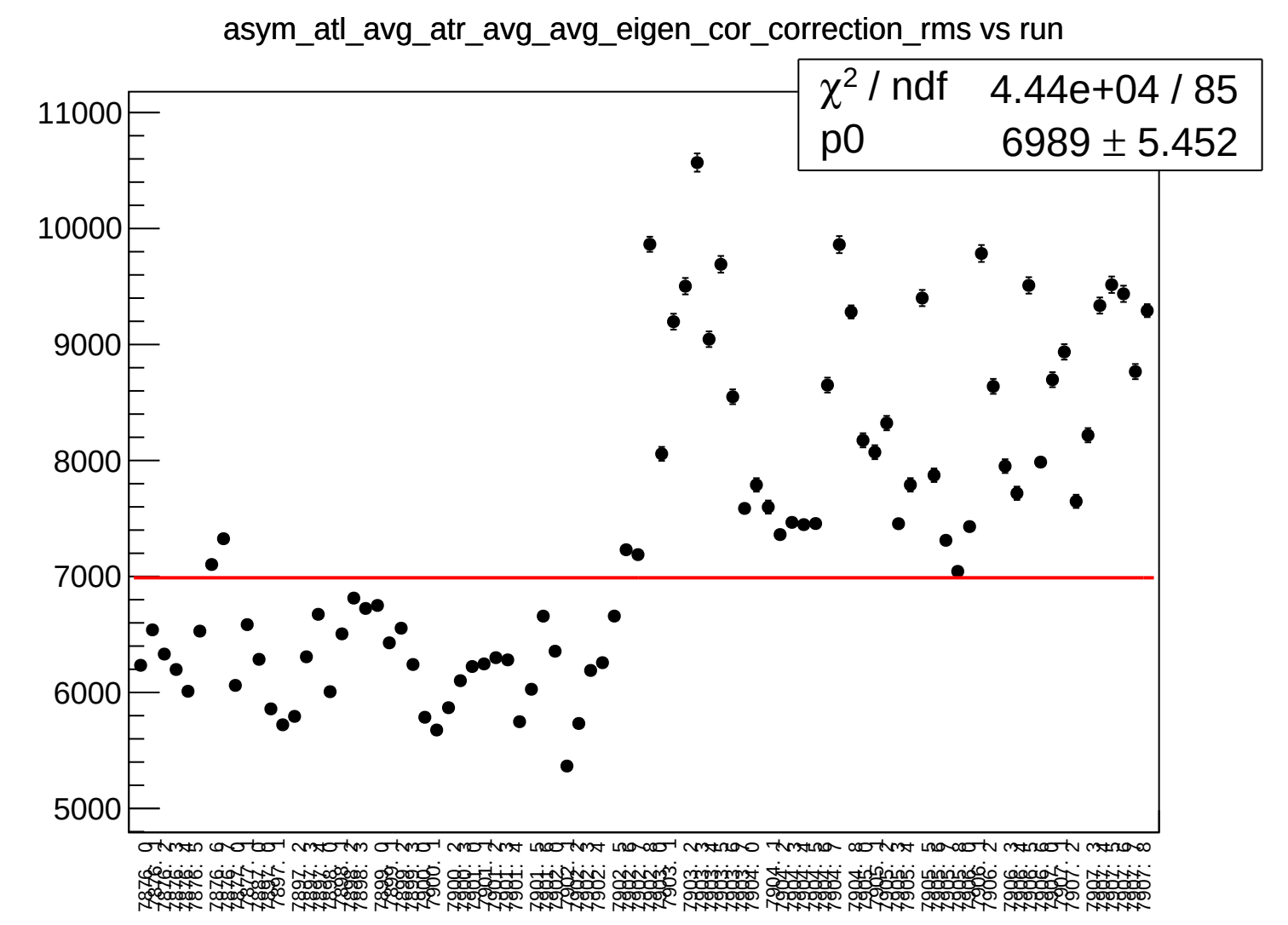

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 77.35 / 85
p0 1313 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1429
Std Dev 0
2
1
0
−1
−2

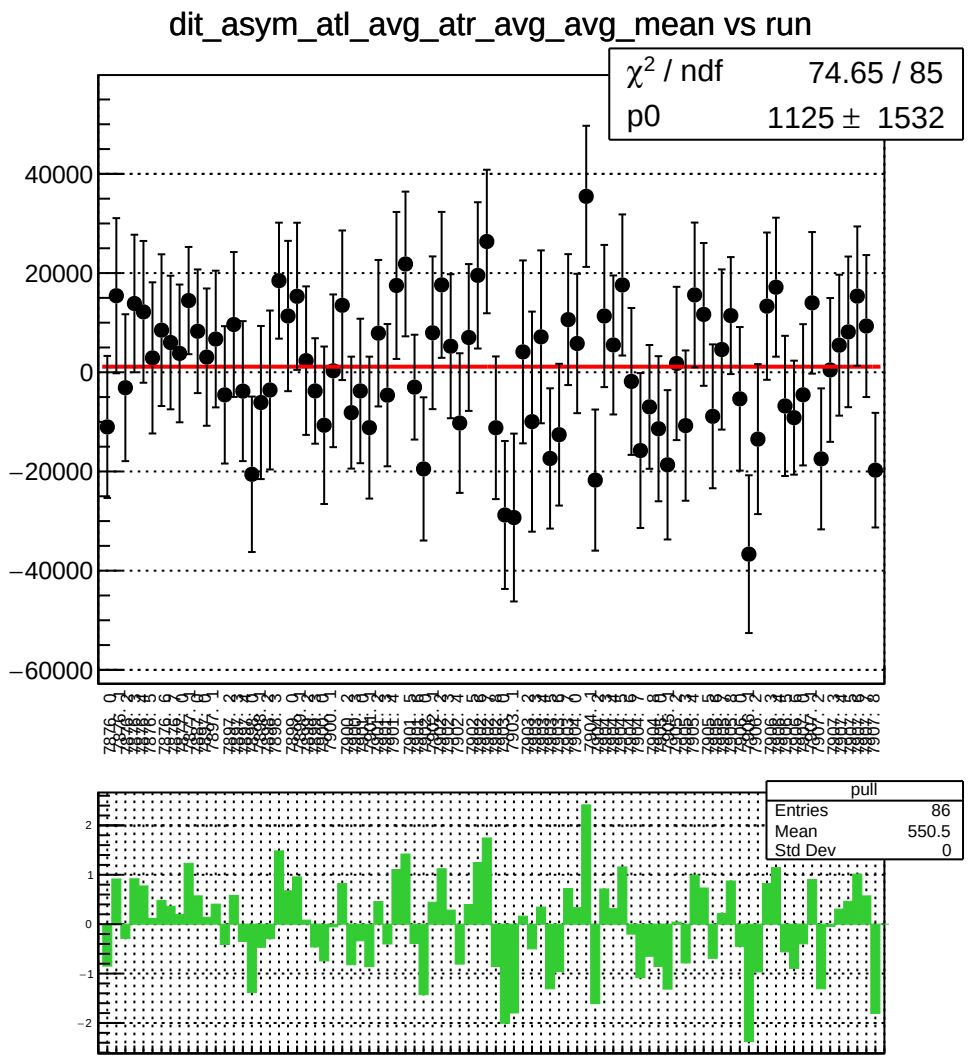

pull1D
Entries 86
Mean 0.002107
Std Dev 0.9483
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

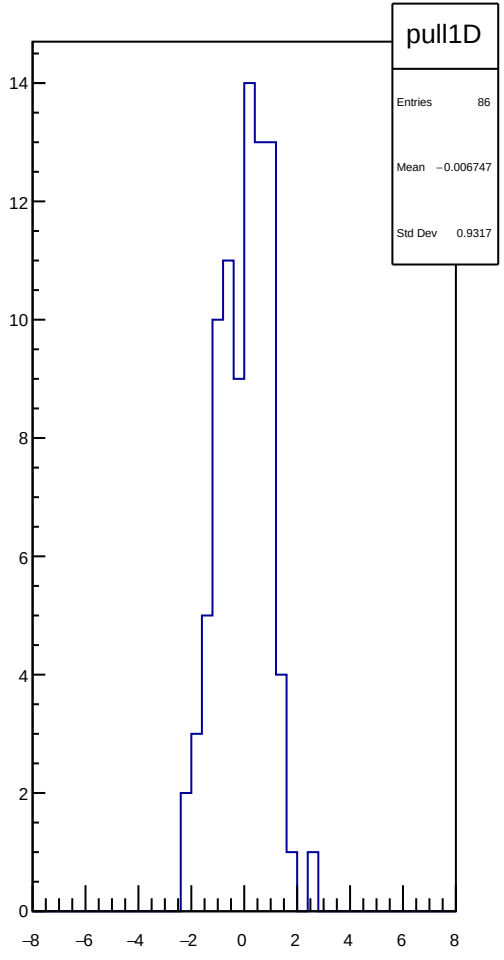

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1965 / 85
p0 1325 ± 1.021
1550
1500
1450
1400
1350
1300
1250
1200

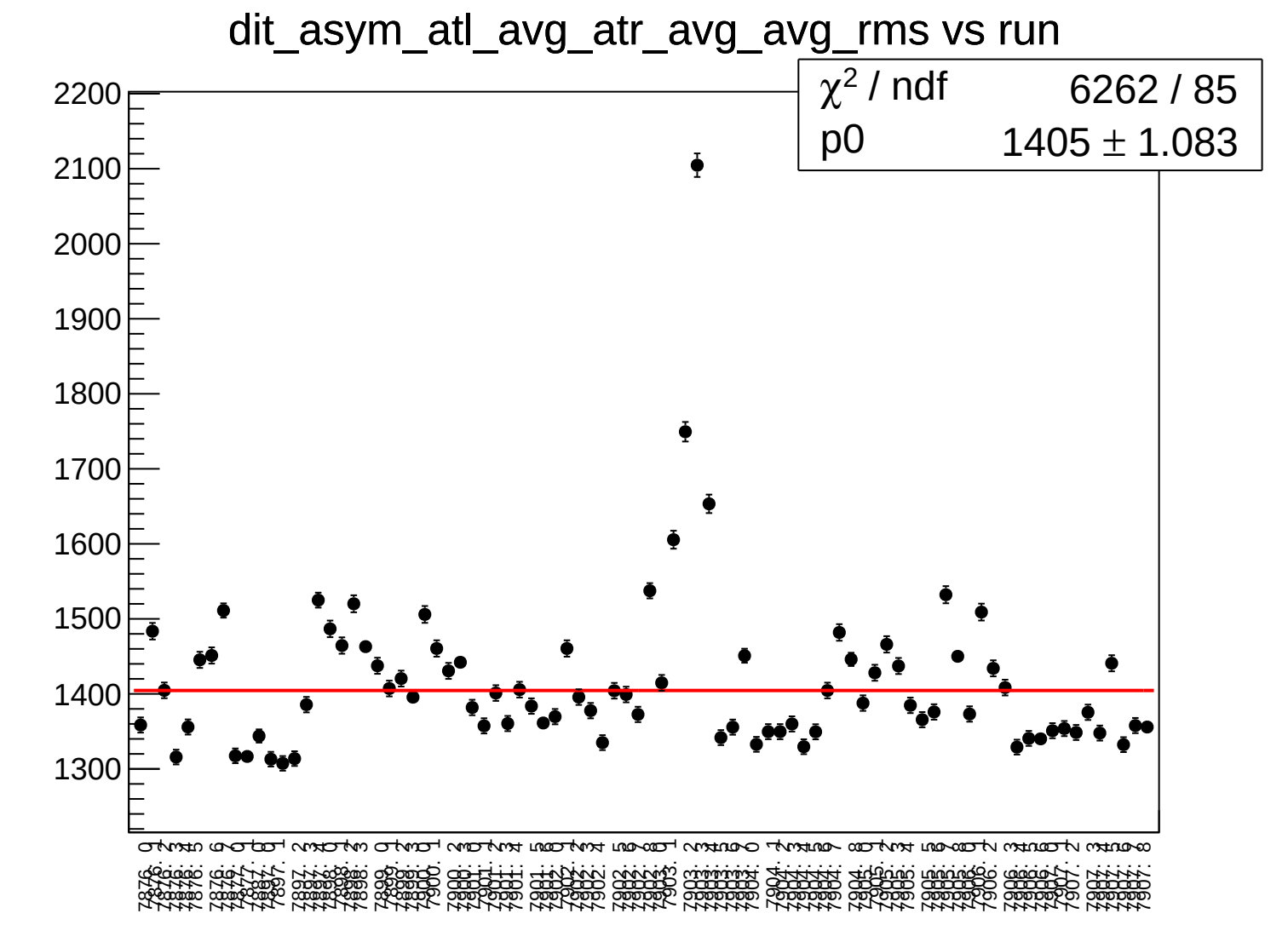

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 73.12 / 85
p0 1.038e+04 ± 7710
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −304.8
Std Dev 0
2
1
0
−1
−2
−3

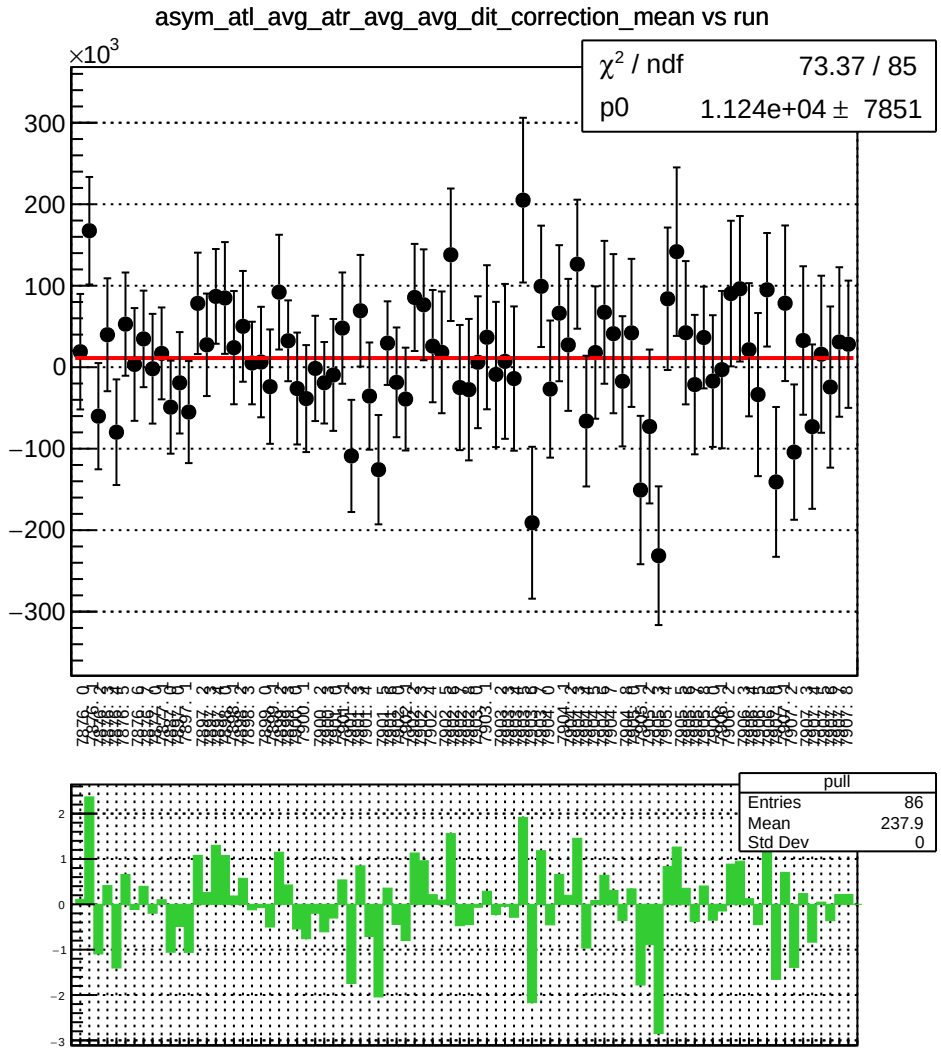

pull1D
Entries 86
Mean 0.00309
Std Dev 0.9221
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

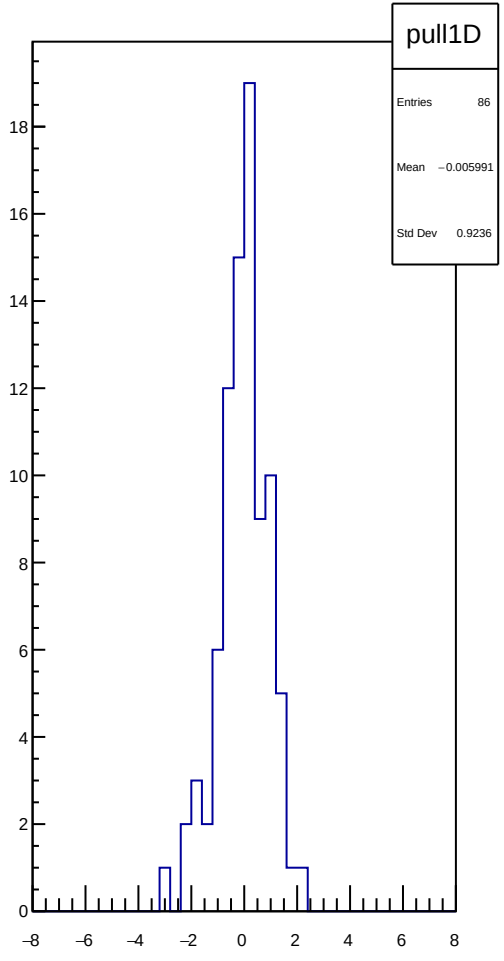

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.44e+04 / 85
p0 6989 ± 5.452
11000
10000
9000
8000
7000
6000
5000

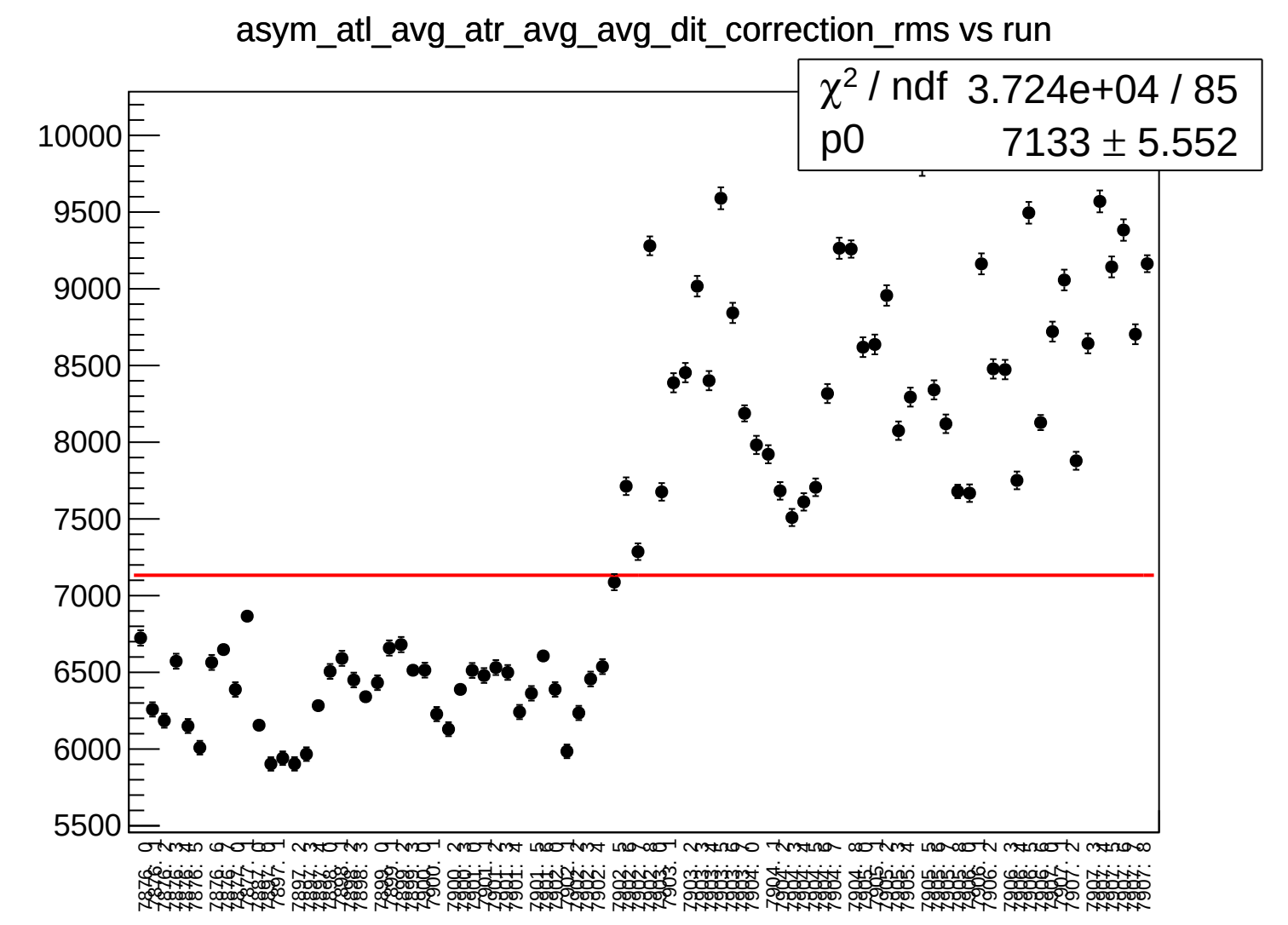

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 74.65 / 85
p0 1125 ± 1532
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 550.5
Std Dev 0
2
1
0
−1
−2

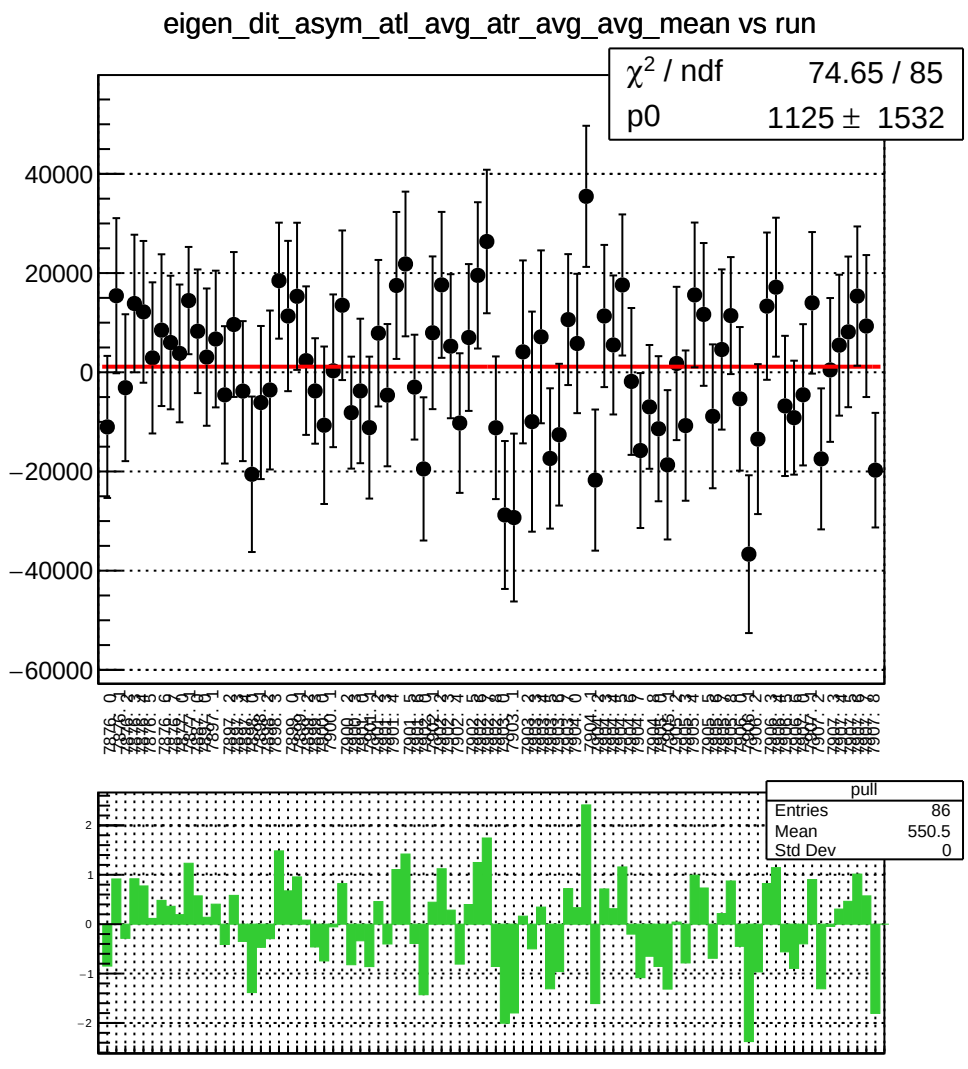

pull1D
Entries 86
Mean −0.006747
Std Dev 0.9317
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

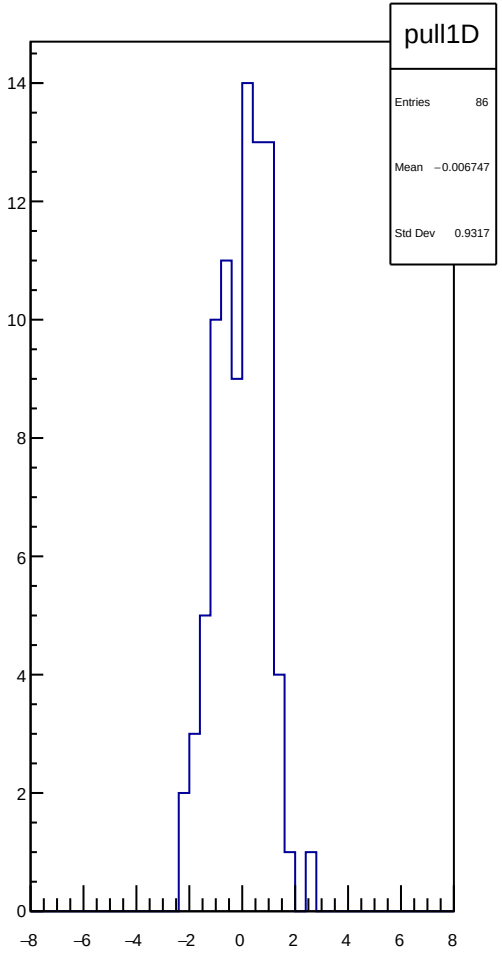

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6262 / 85
p0 1405 ± 1.083
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

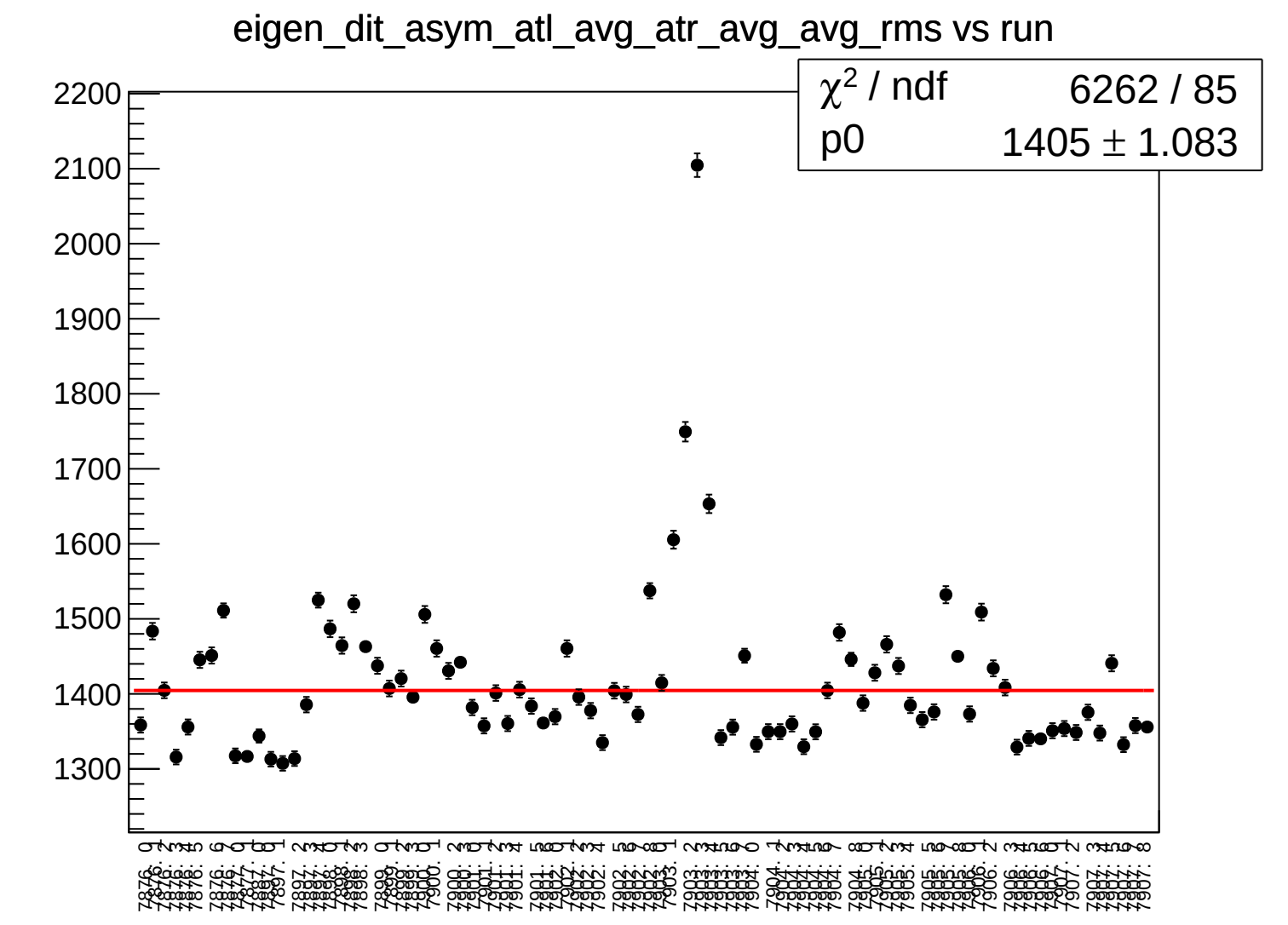

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.37 / 85
p0 1.124e+04 ± 7851
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean 237.9
Std Dev 0
2
1
0
−1
−2
−3

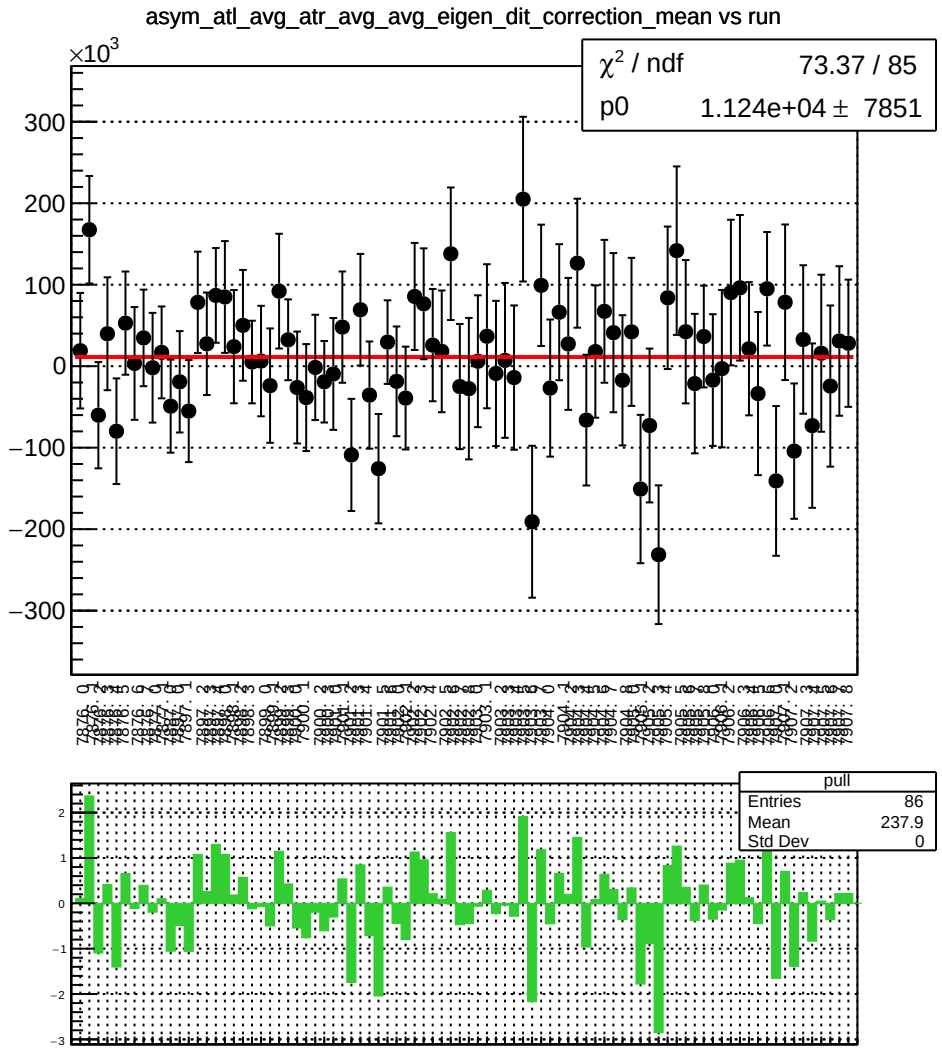

pull1D
Entries 86
Mean −0.005991
Std Dev 0.9236
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

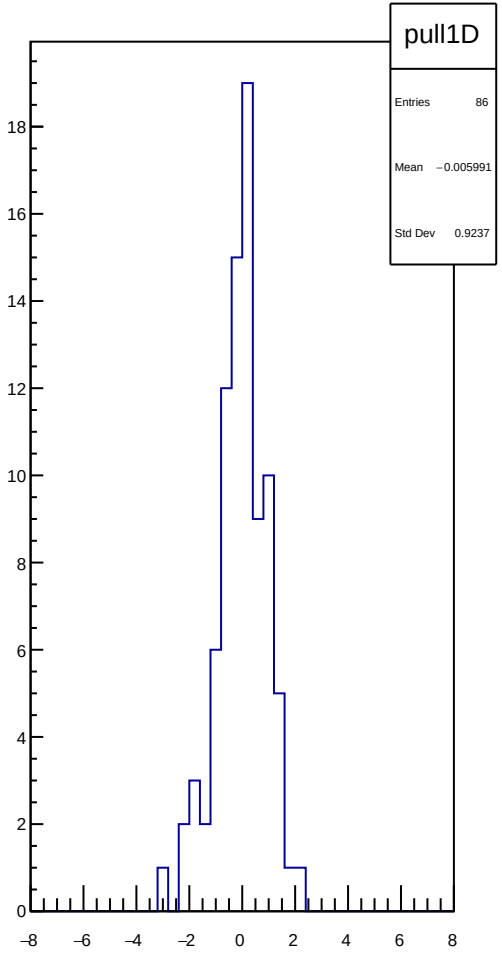

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.724e+04 / 85
p0 7133 ± 5.552
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500

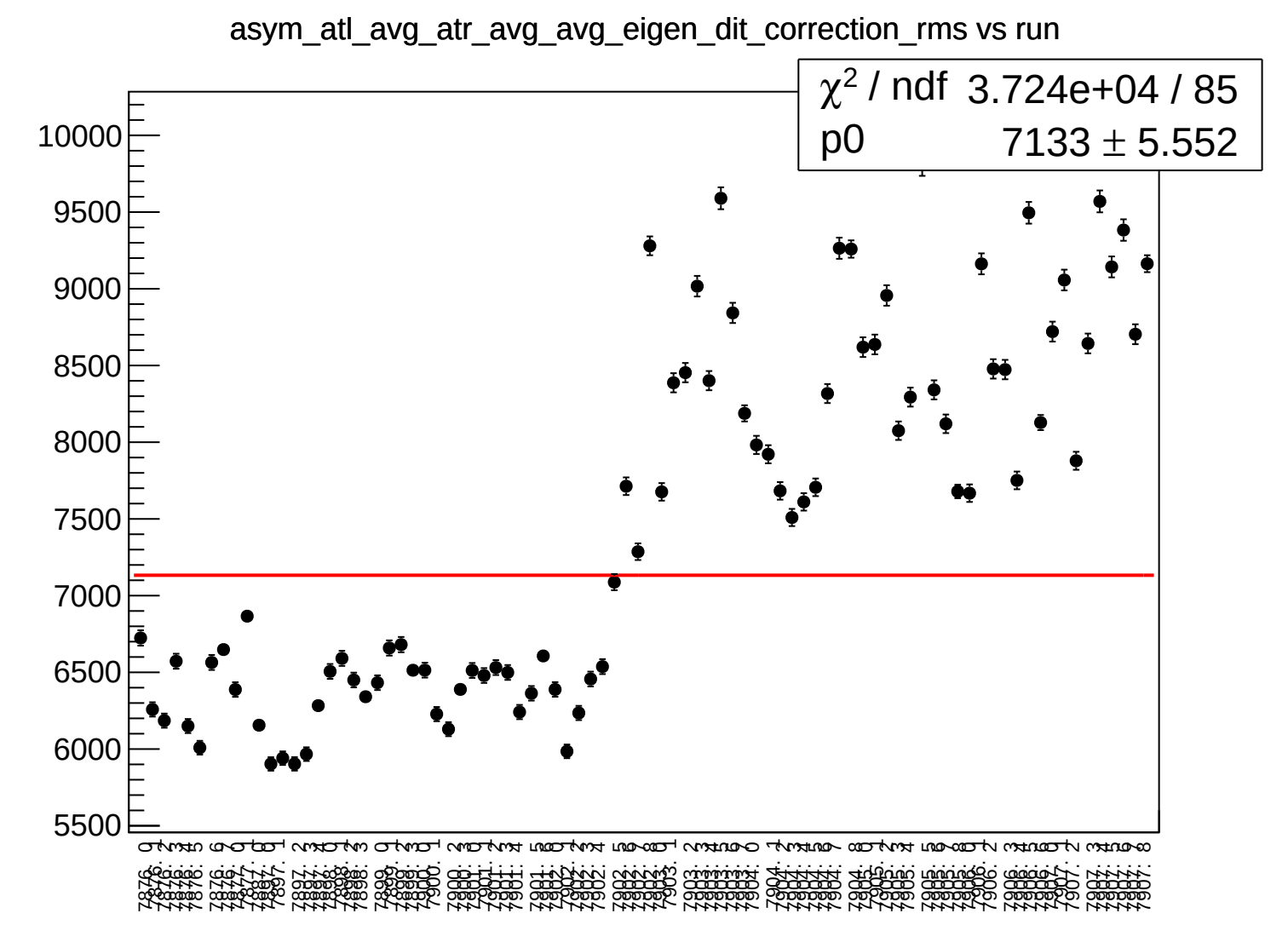

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 74.65 / 85
p0 1125 ± 1532
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 550.5
Std Dev 0
2
1
0
−1
−2

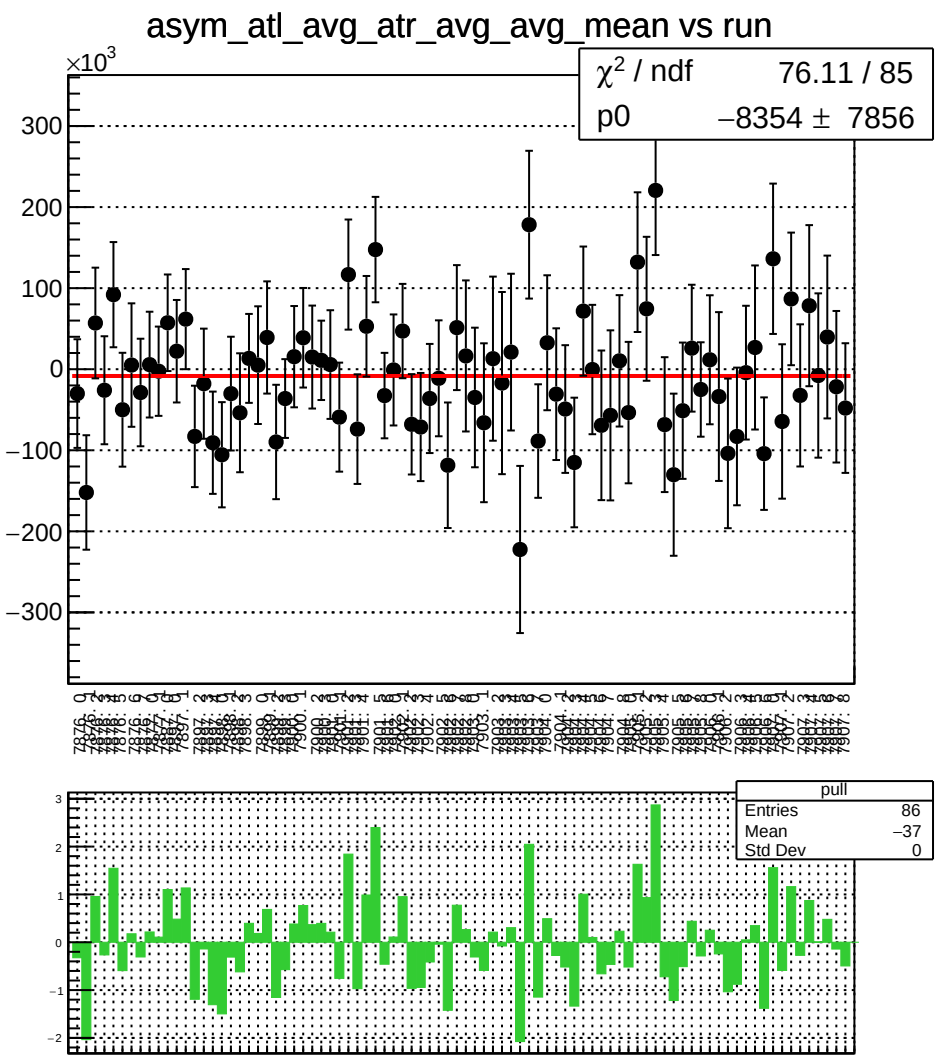

pull1D
Entries 86
Mean −0.006747
Std Dev 0.9317
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

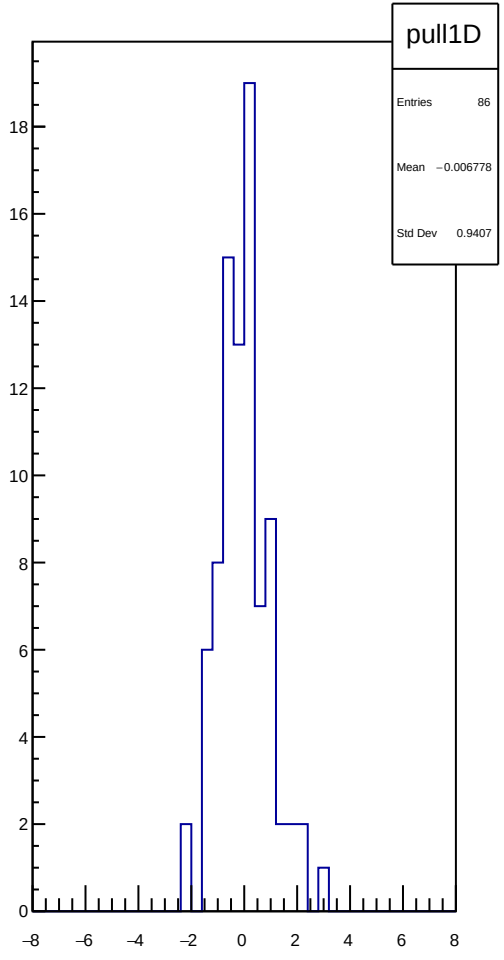

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6262 / 85
p0 1405 ± 1.083
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

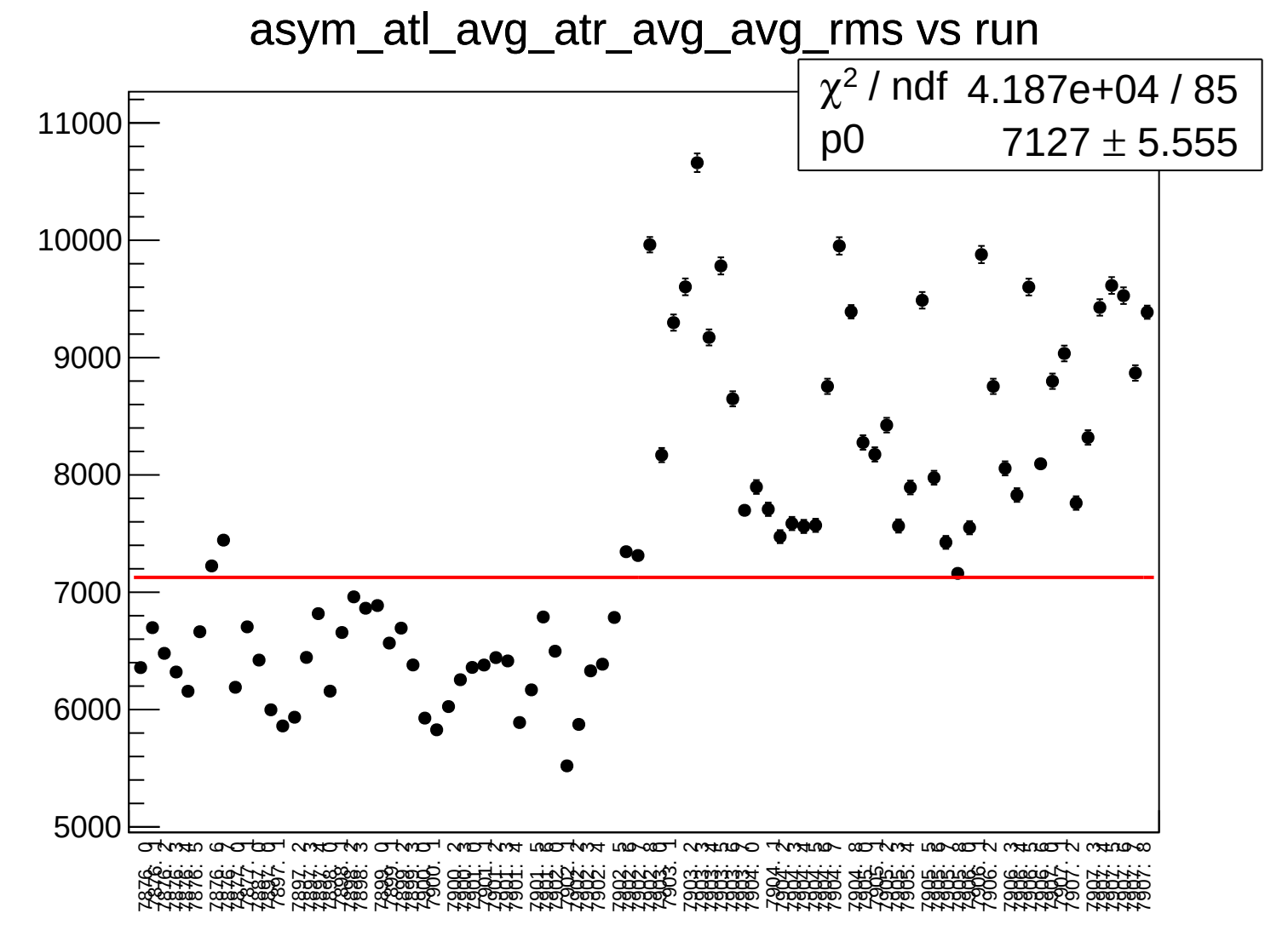

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.37 / 85
p0 1.124e+04 ± 7851
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean 237.9
Std Dev 0
2
1
0
−1
−2
−3

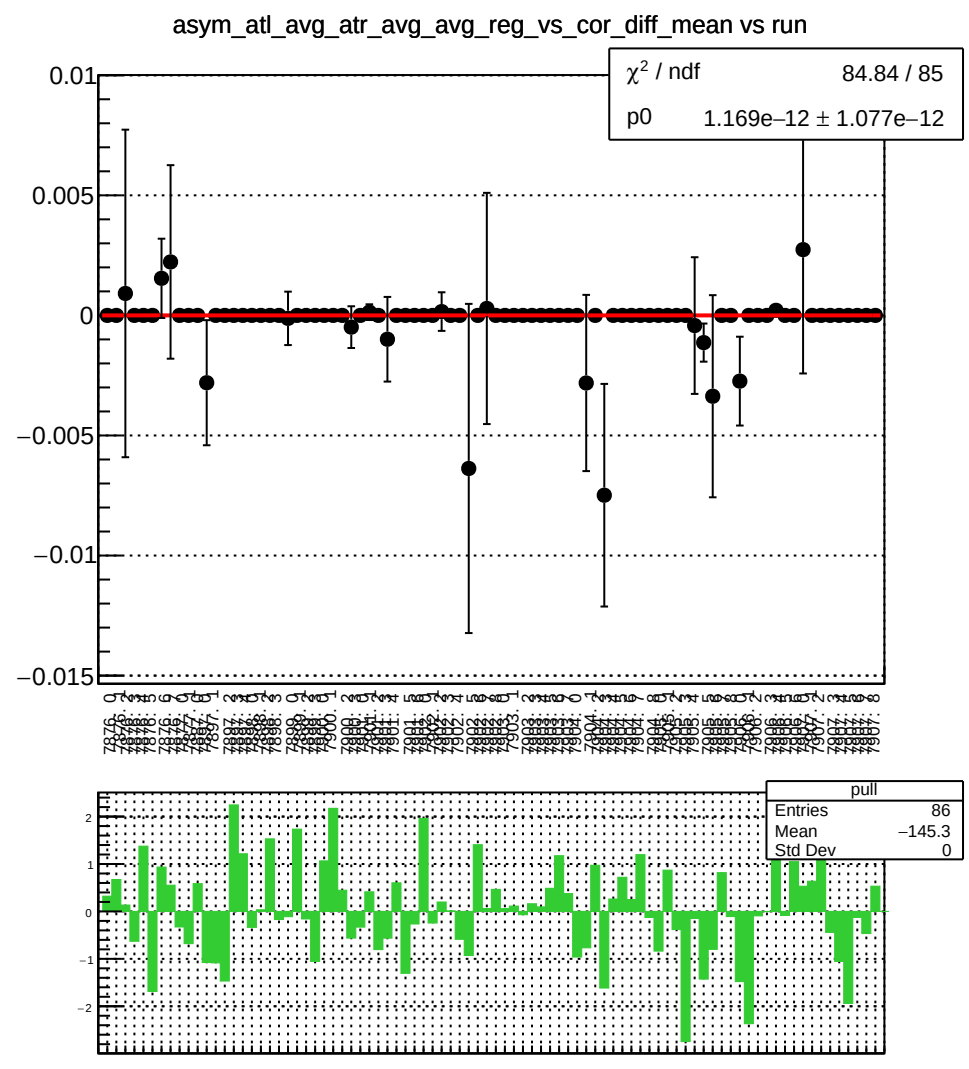

pull1D
Entries 86
Mean −0.005991
Std Dev 0.9237
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

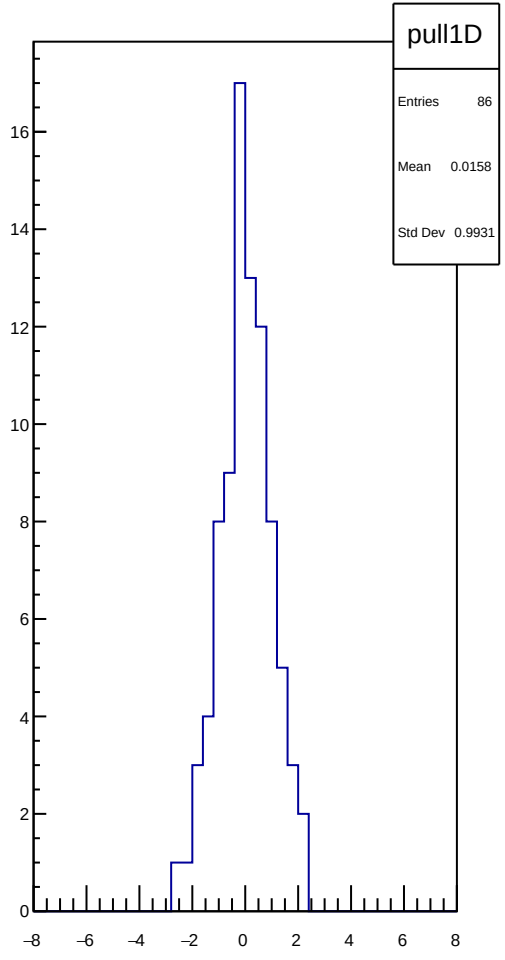

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.724e+04 / 85
p0 7133 ± 5.552
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500

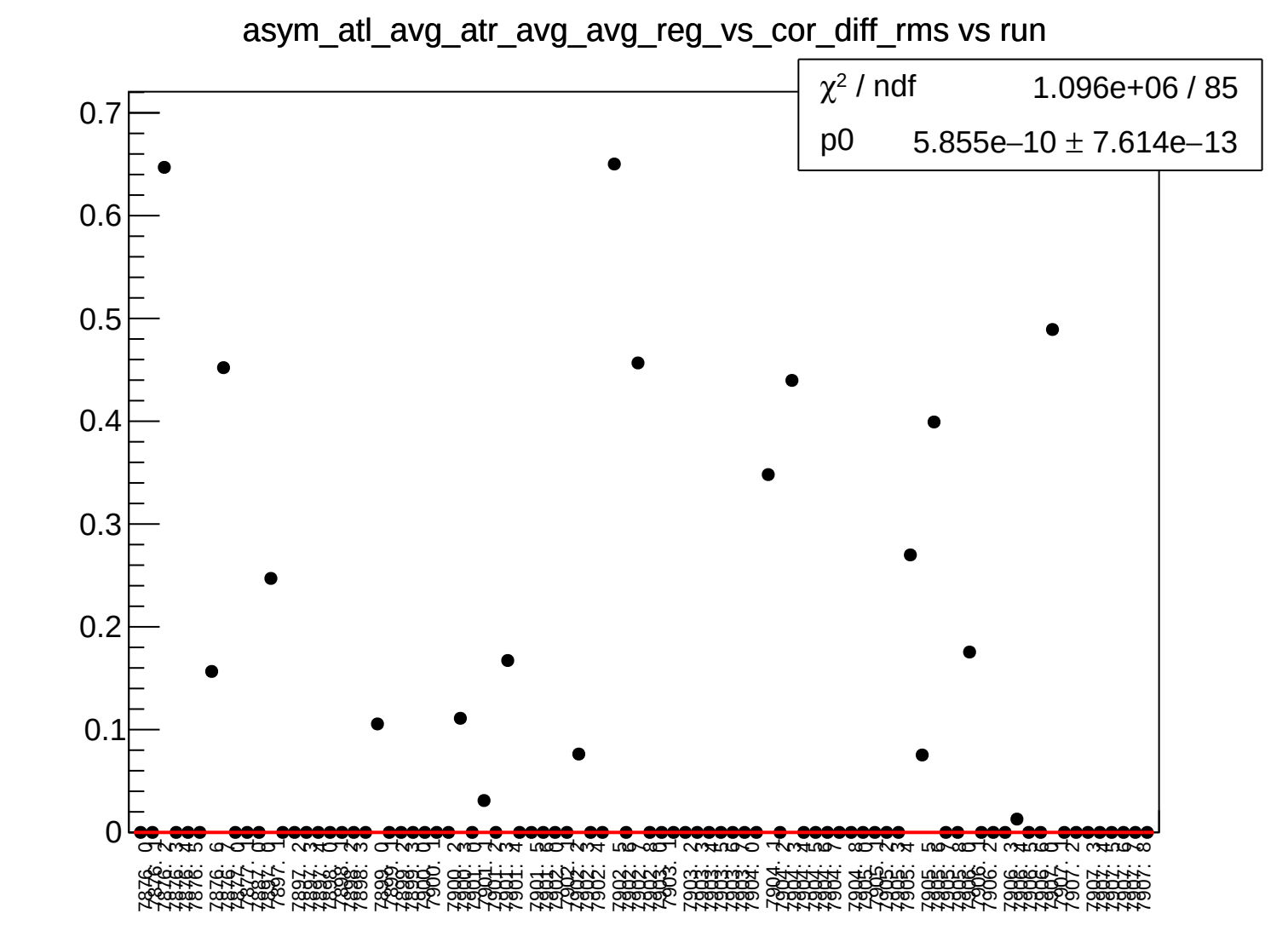

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 76.11 / 85
p0 −8354 ± 7856
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −37
Std Dev 0
3
2
1
0
−1
−2

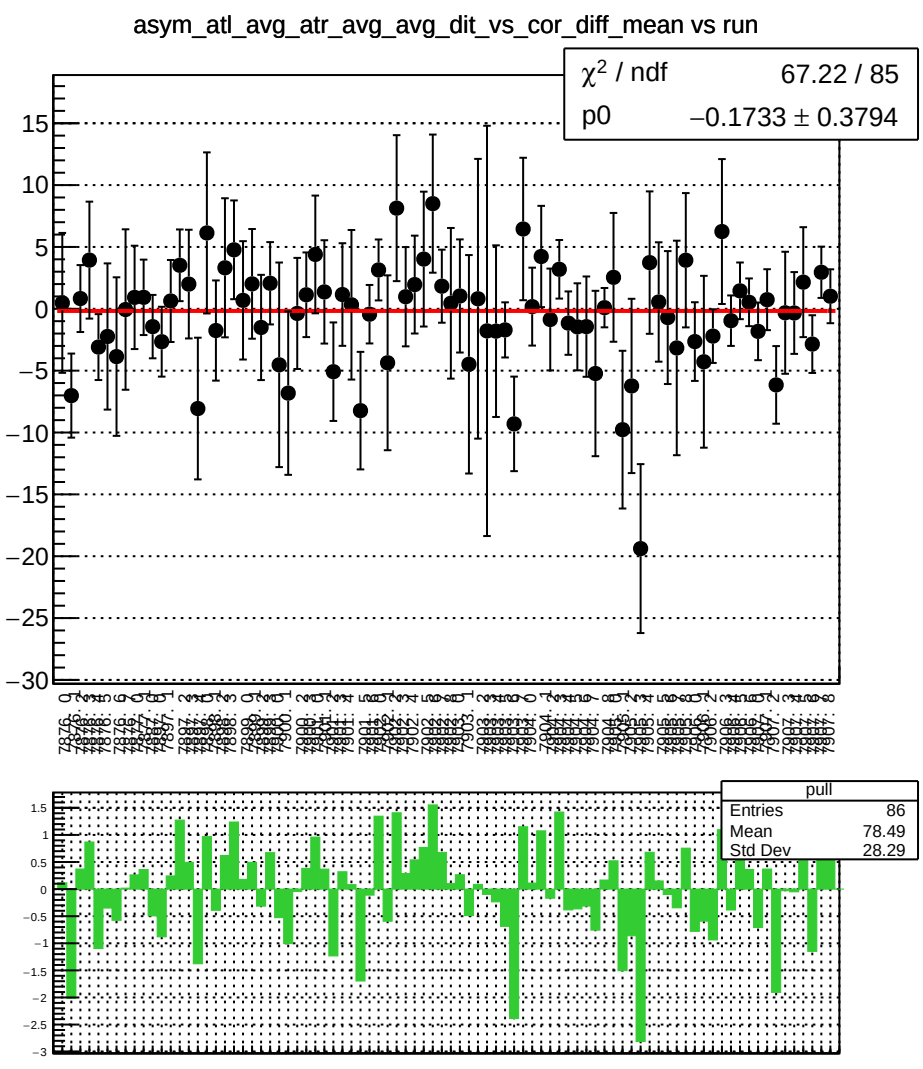

pull1D
Entries 86
Mean −0.006778
Std Dev 0.9407
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

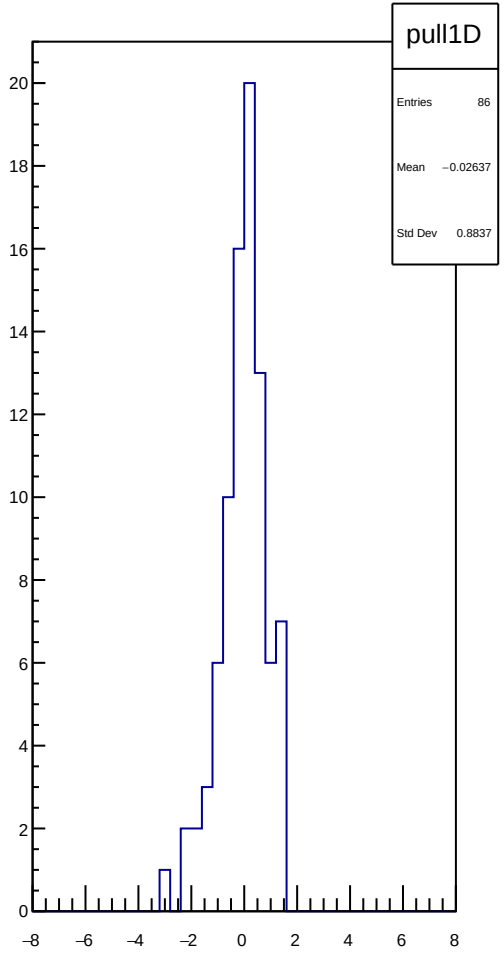

asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 4.187e+04 / 85
p0 7127 ± 5.555
11000
10000
9000
8000
7000
6000
5000

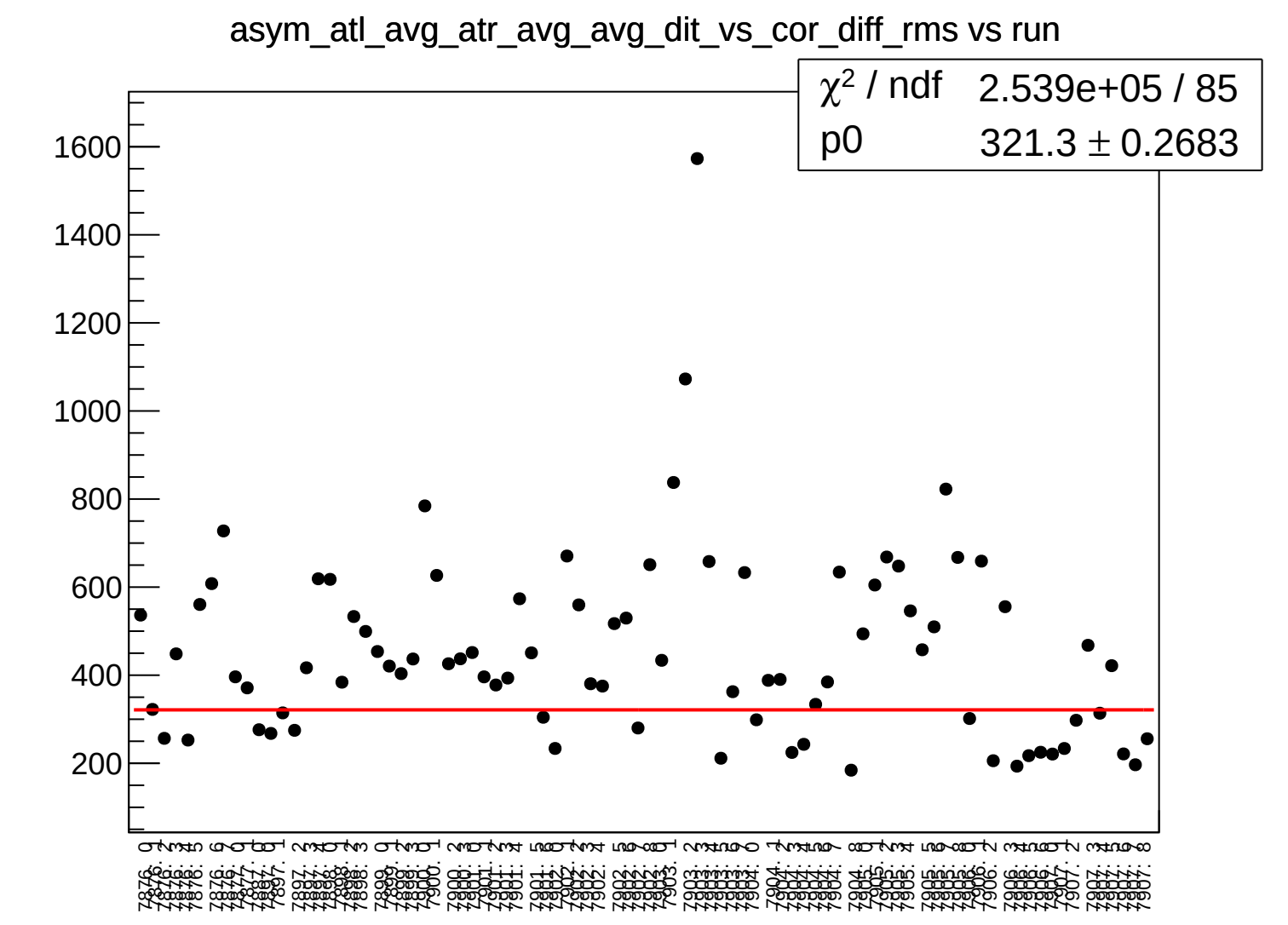

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.84 / 85
p0 1.169e−12 ± 1.077e−12
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean −145.3
Std Dev 0
2
1
0
−1
−2

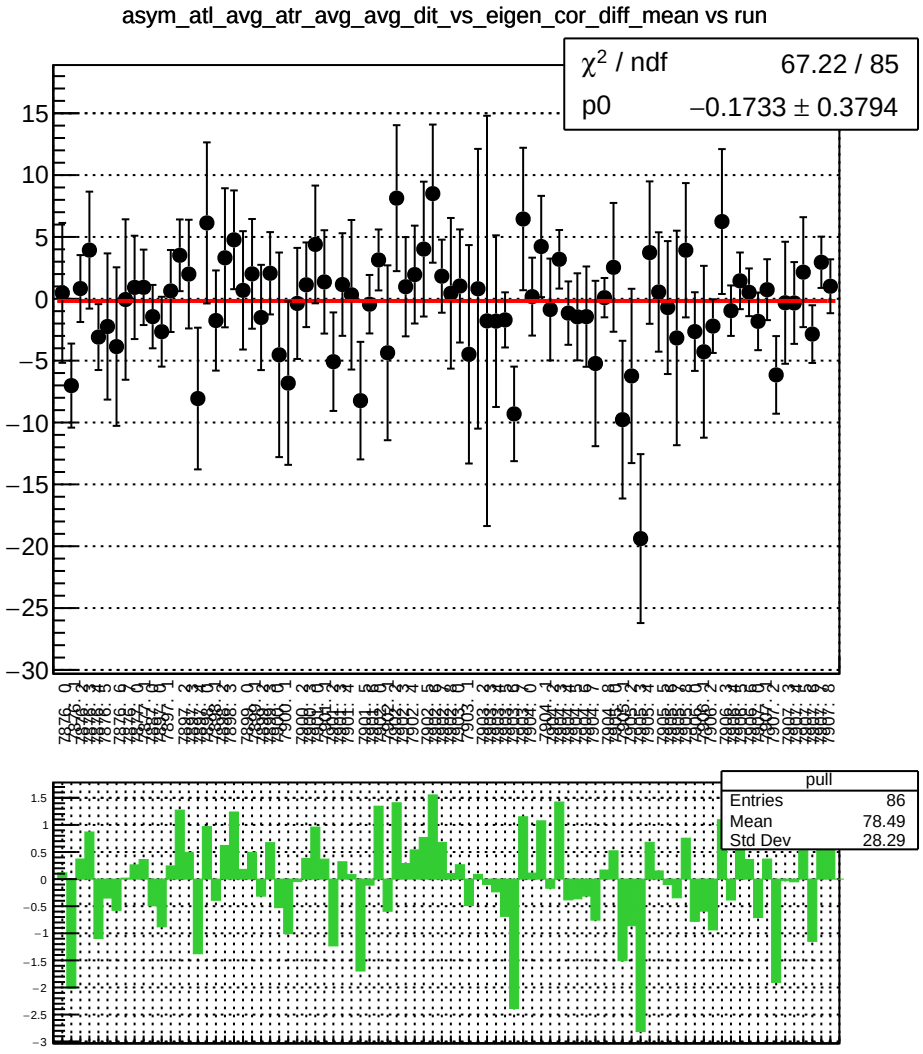

pull1D
Entries 86
Mean 0.0158
Std Dev 0.9931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

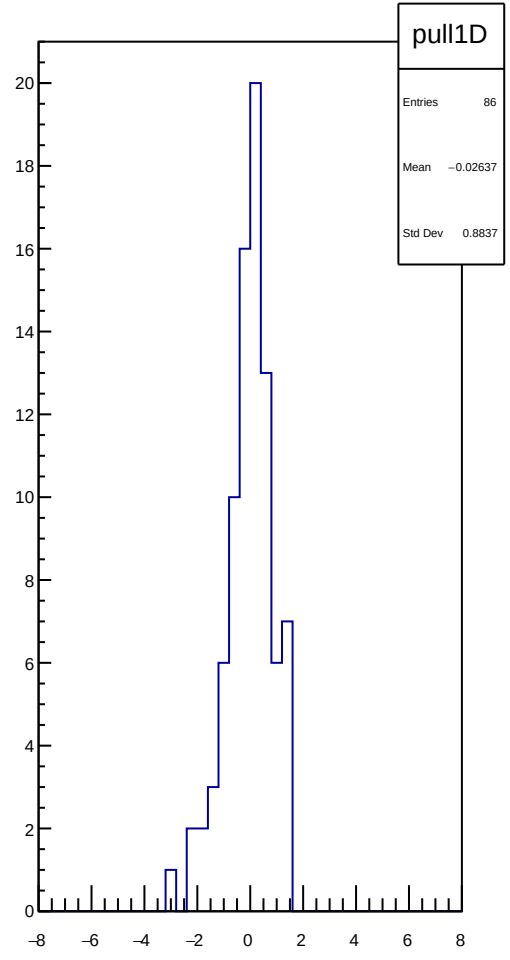

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 85
p0 5.855e−10 ± 7.614e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

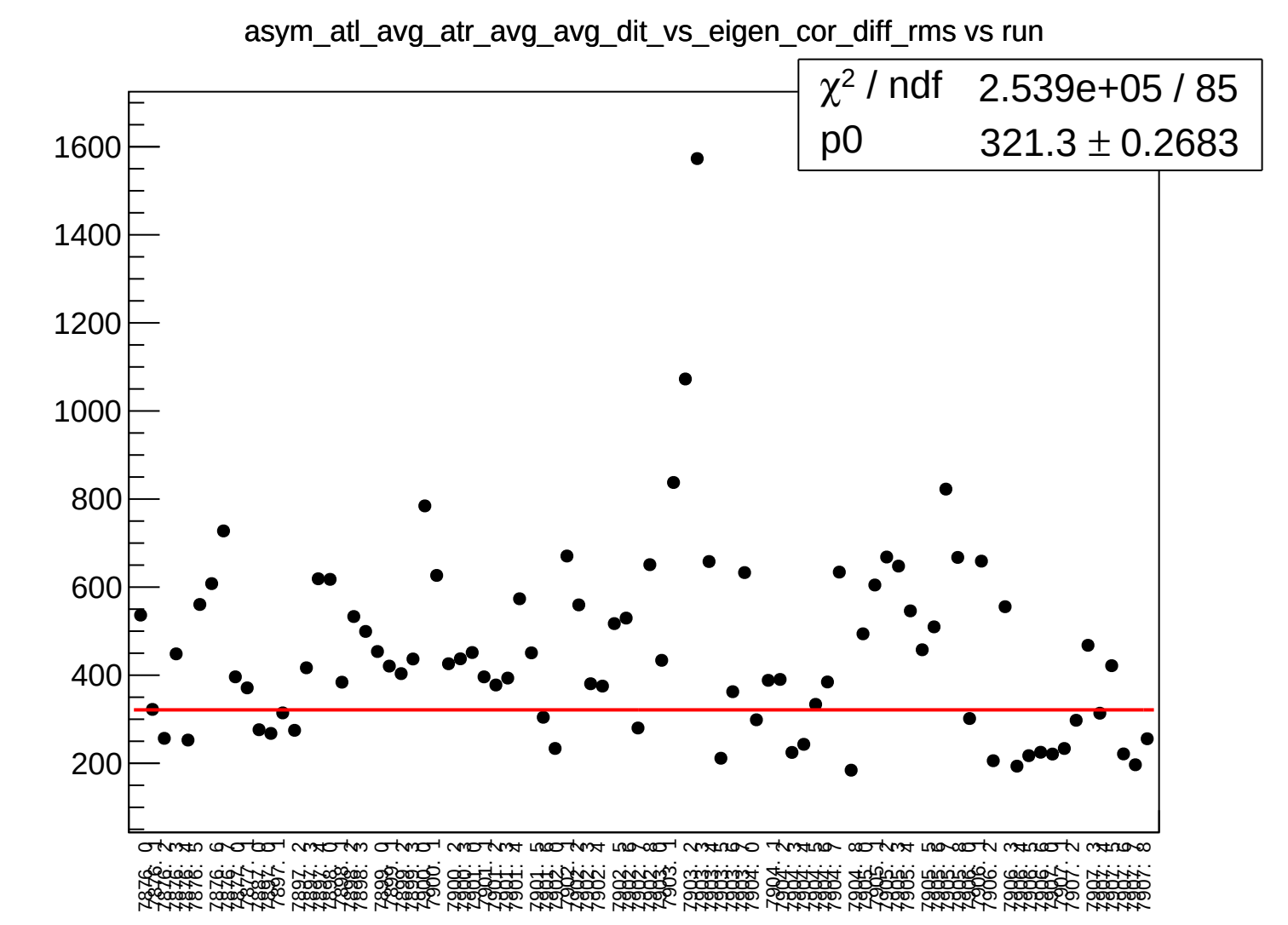

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.22 / 85
p0 −0.1733 ± 0.3794
pull
Entries 86
Mean 78.49
Std Dev 28.29

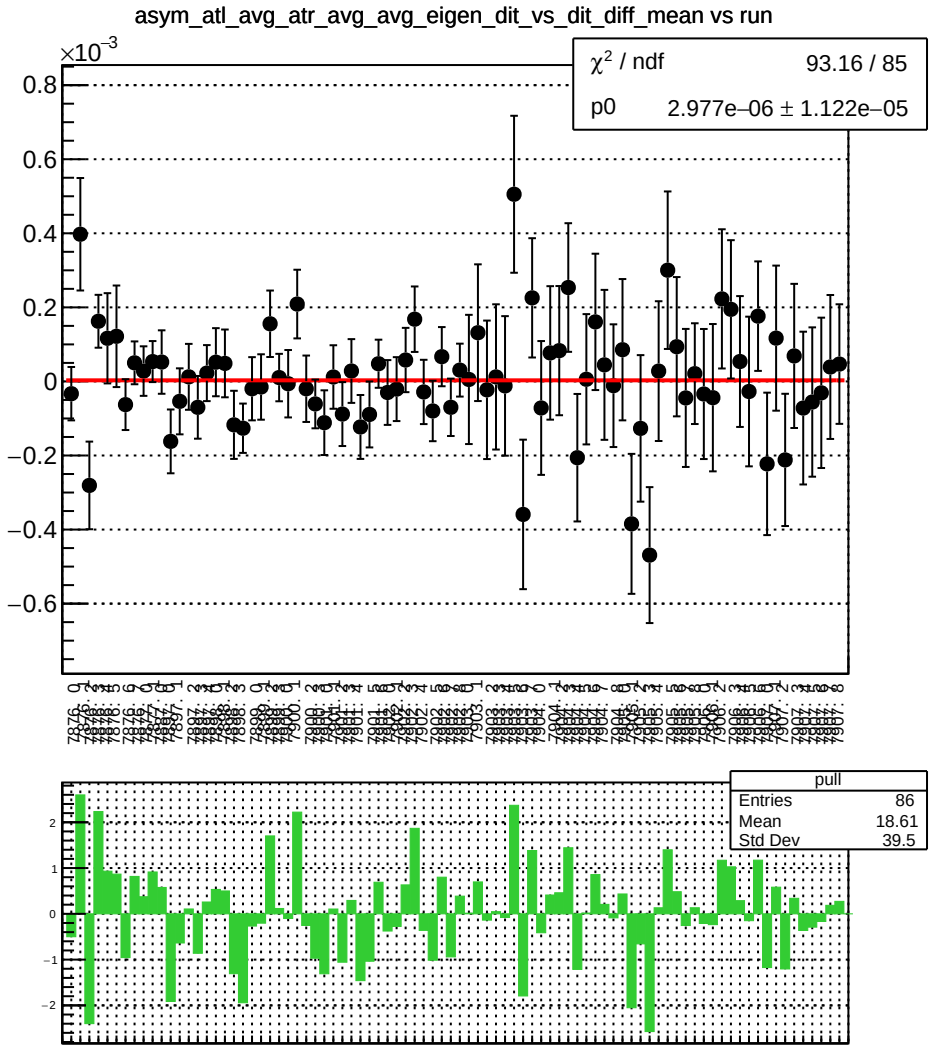

pull1D
Entries 86
Mean −0.02637
Std Dev 0.8837

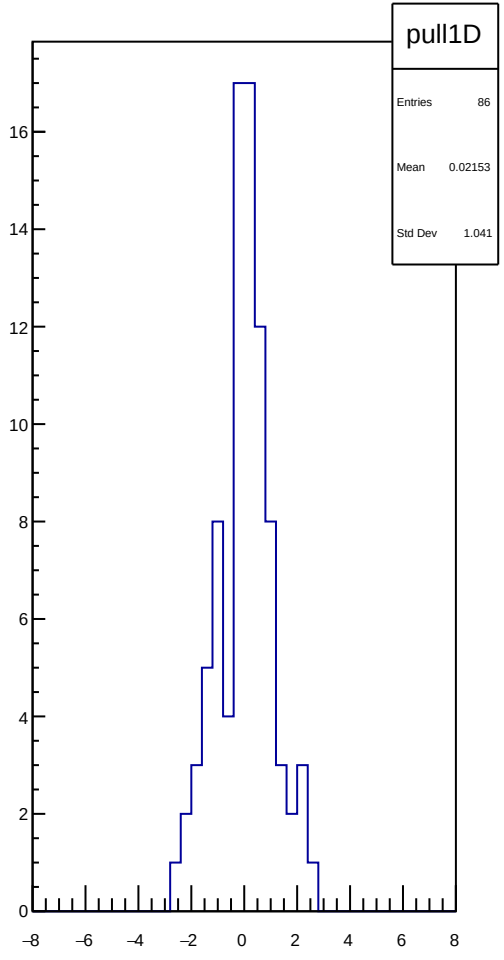

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.539e+05 / 85
p0 321.3 ± 0.2683
1600
1400
1200
1000
800
600
400
200

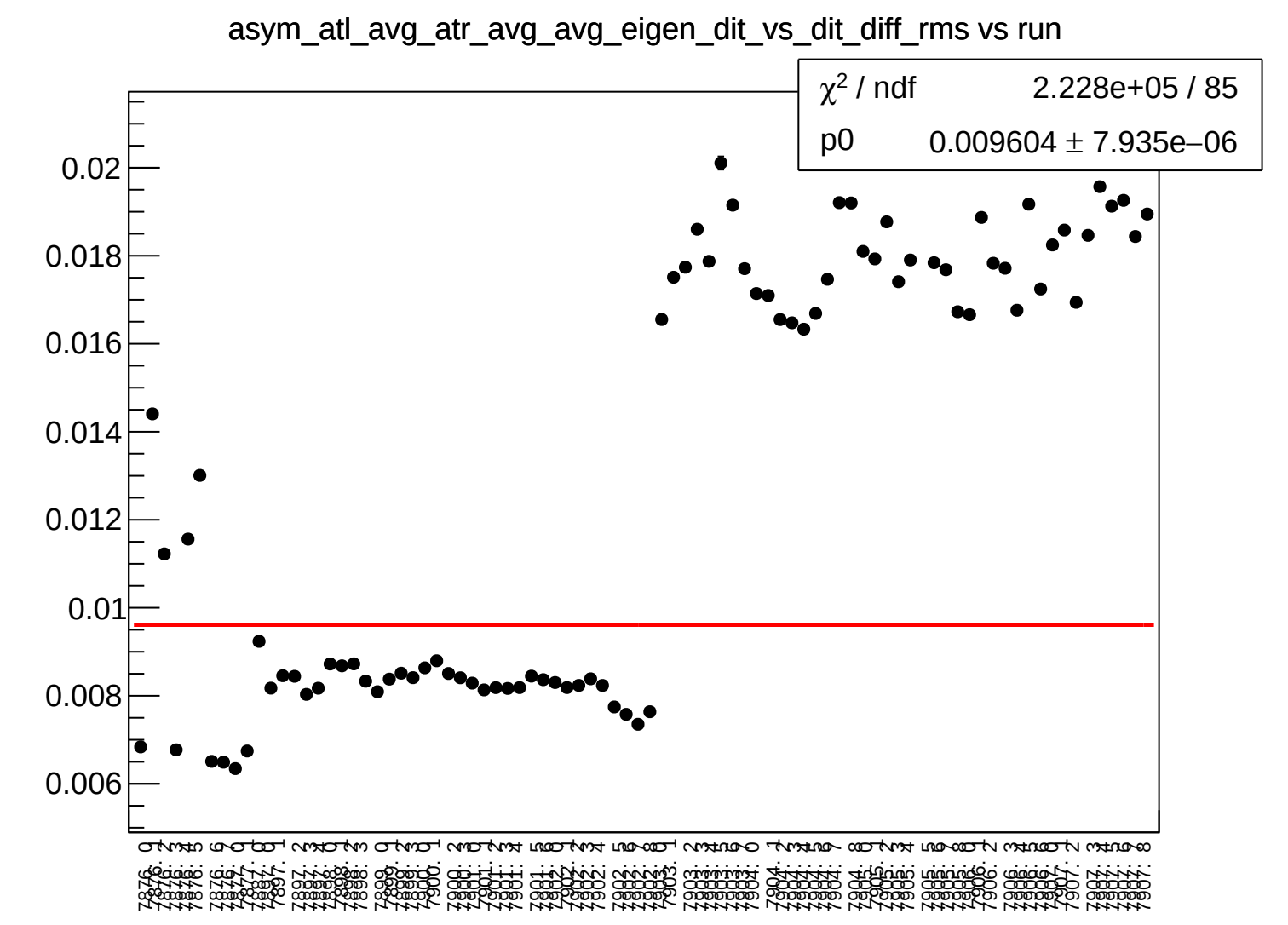

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.22 / 85
p0 −0.1733 ± 0.3794
pull
Entries 86
Mean 78.49
Std Dev 28.29

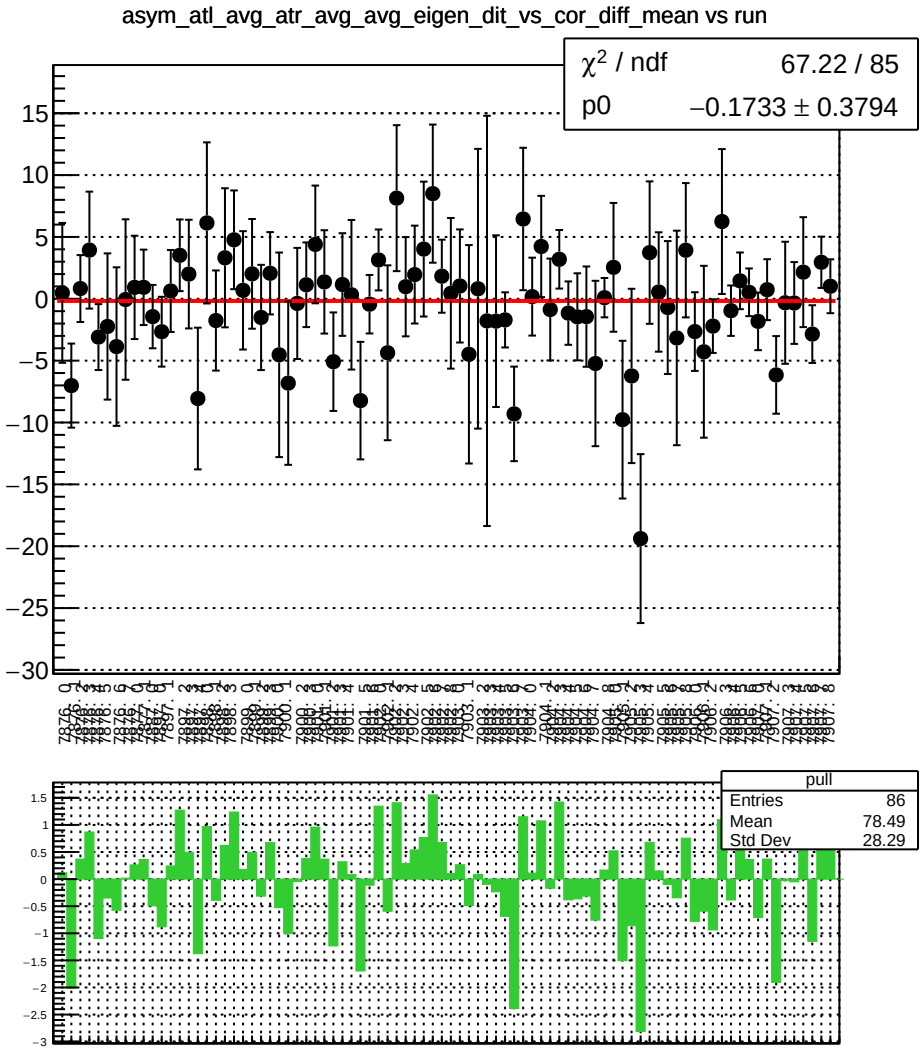

pull1D
Entries 86
Mean −0.02637
Std Dev 0.8837

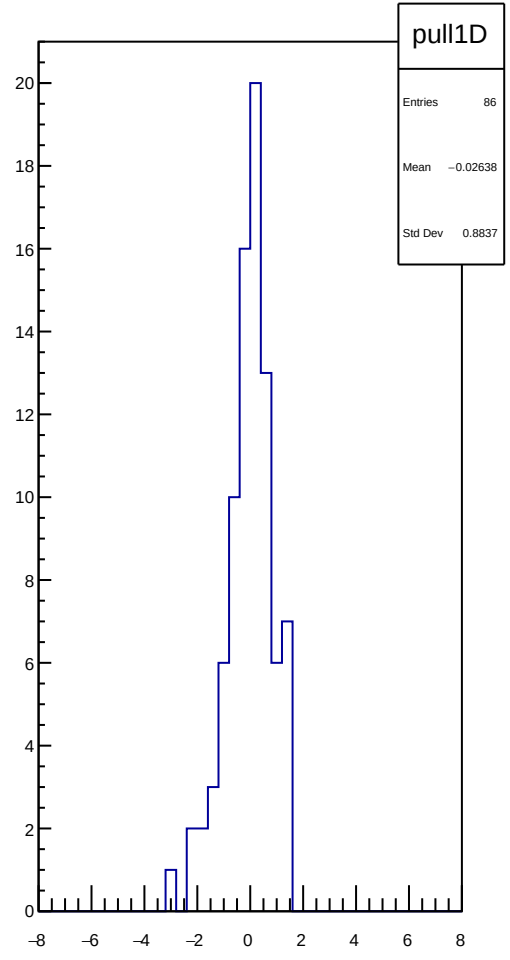

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.539e+05 / 85
p0 321.3 ± 0.2683
1600
1400
1200
1000
800
600
400
200

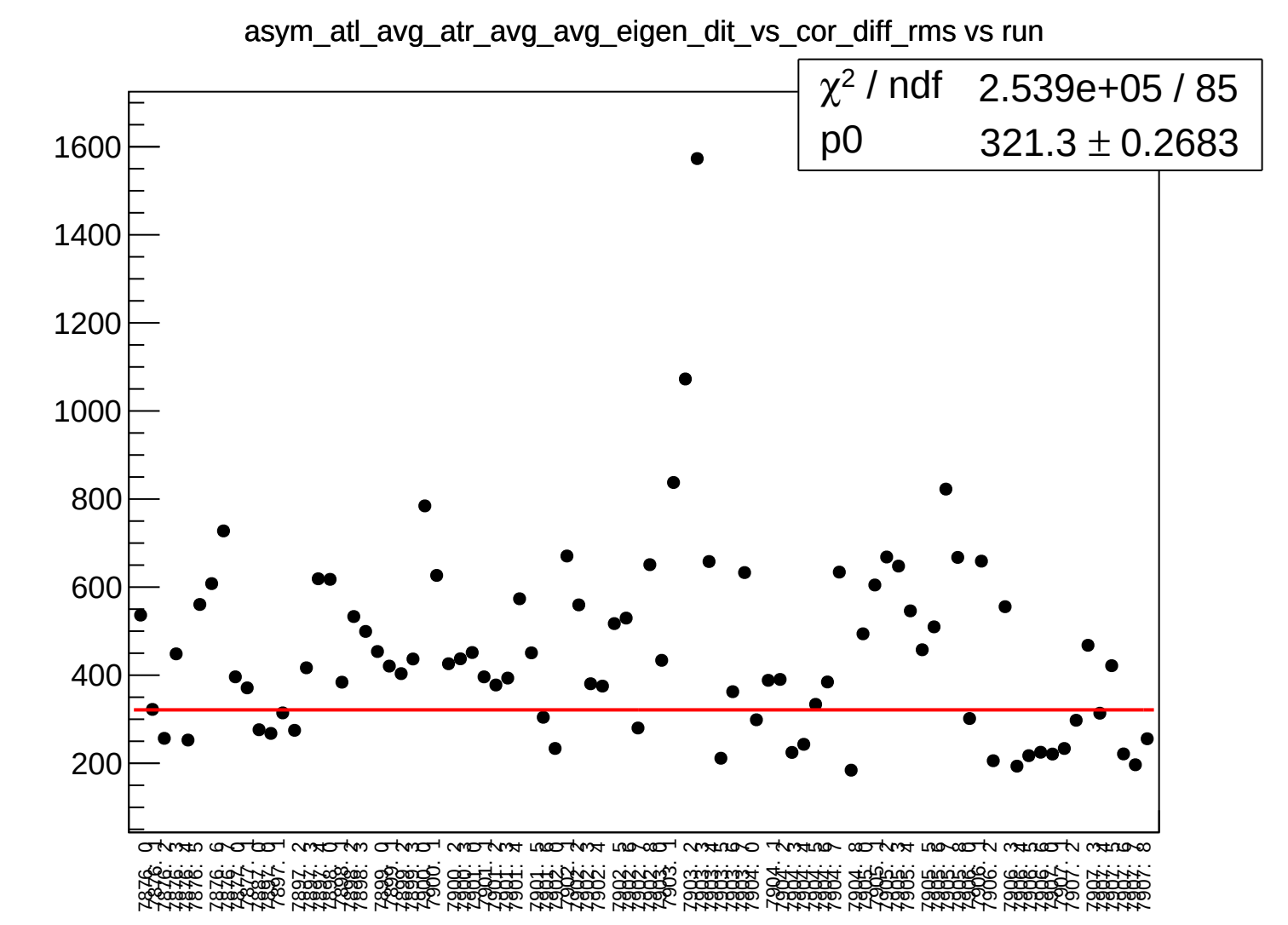

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.16 / 85
p0 2.977e−06 ± 1.122e−05
pull
Entries 86
Mean 18.61
Std Dev 39.5

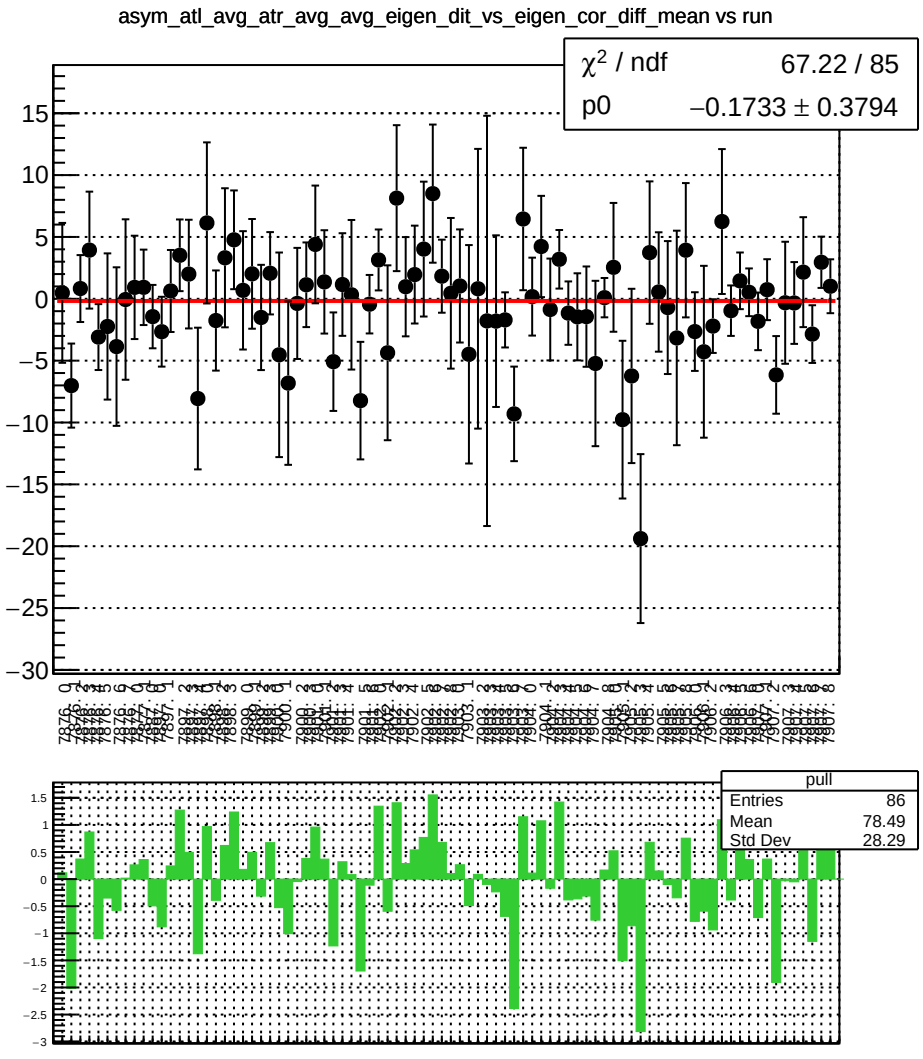

pull1D
Entries 86
Mean 0.02153
Std Dev 1.041

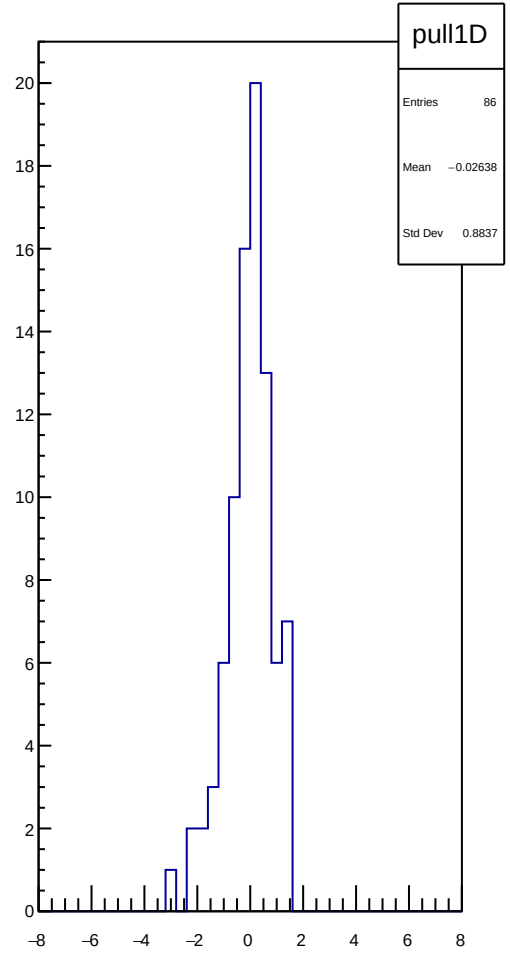

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.228e+05 / 85
p0 0.009604 ± 7.935e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

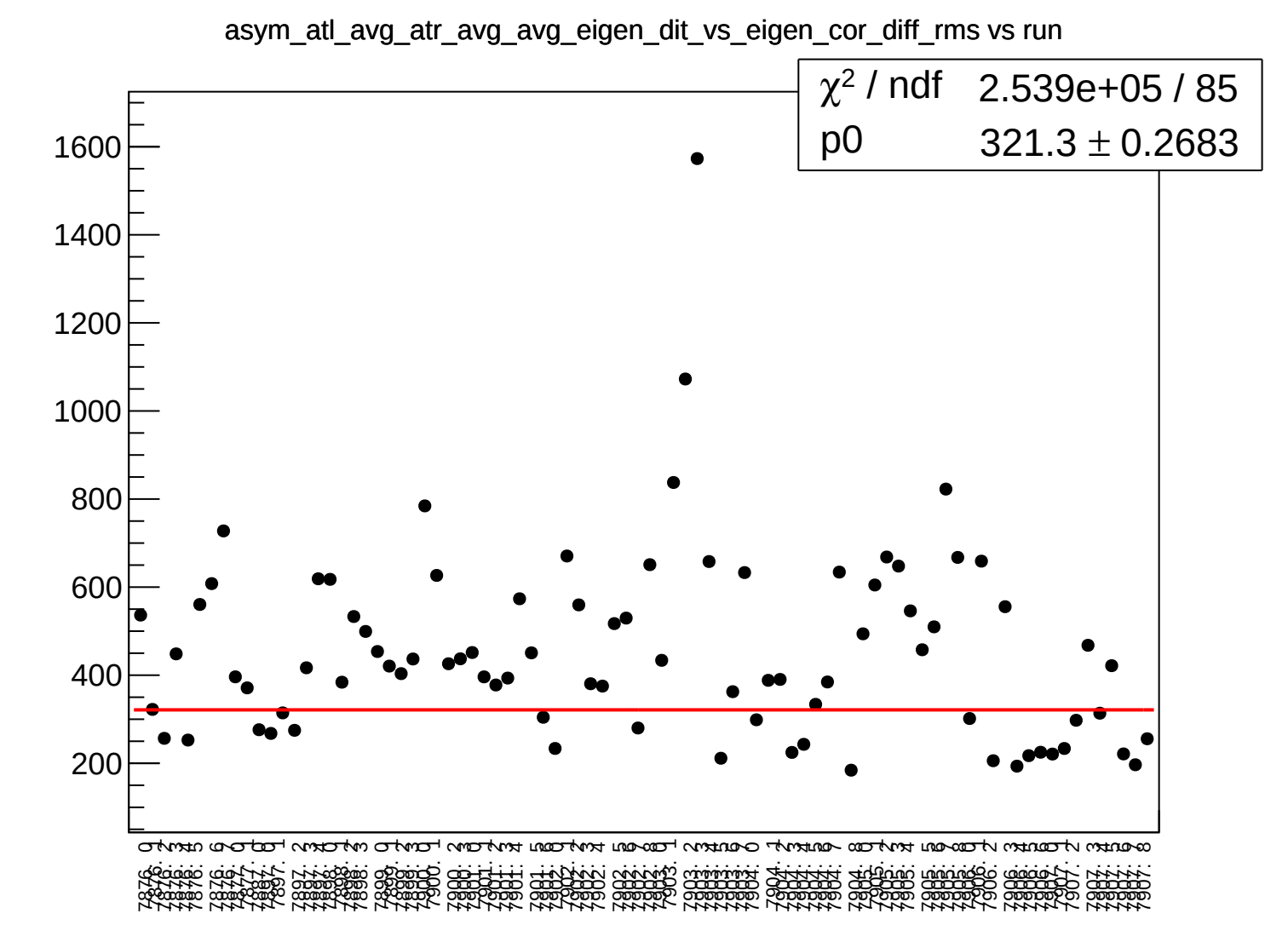

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.22 / 85
p0 −0.1733 ± 0.3794
pull
Entries 86
Mean 78.49
Std Dev 28.29

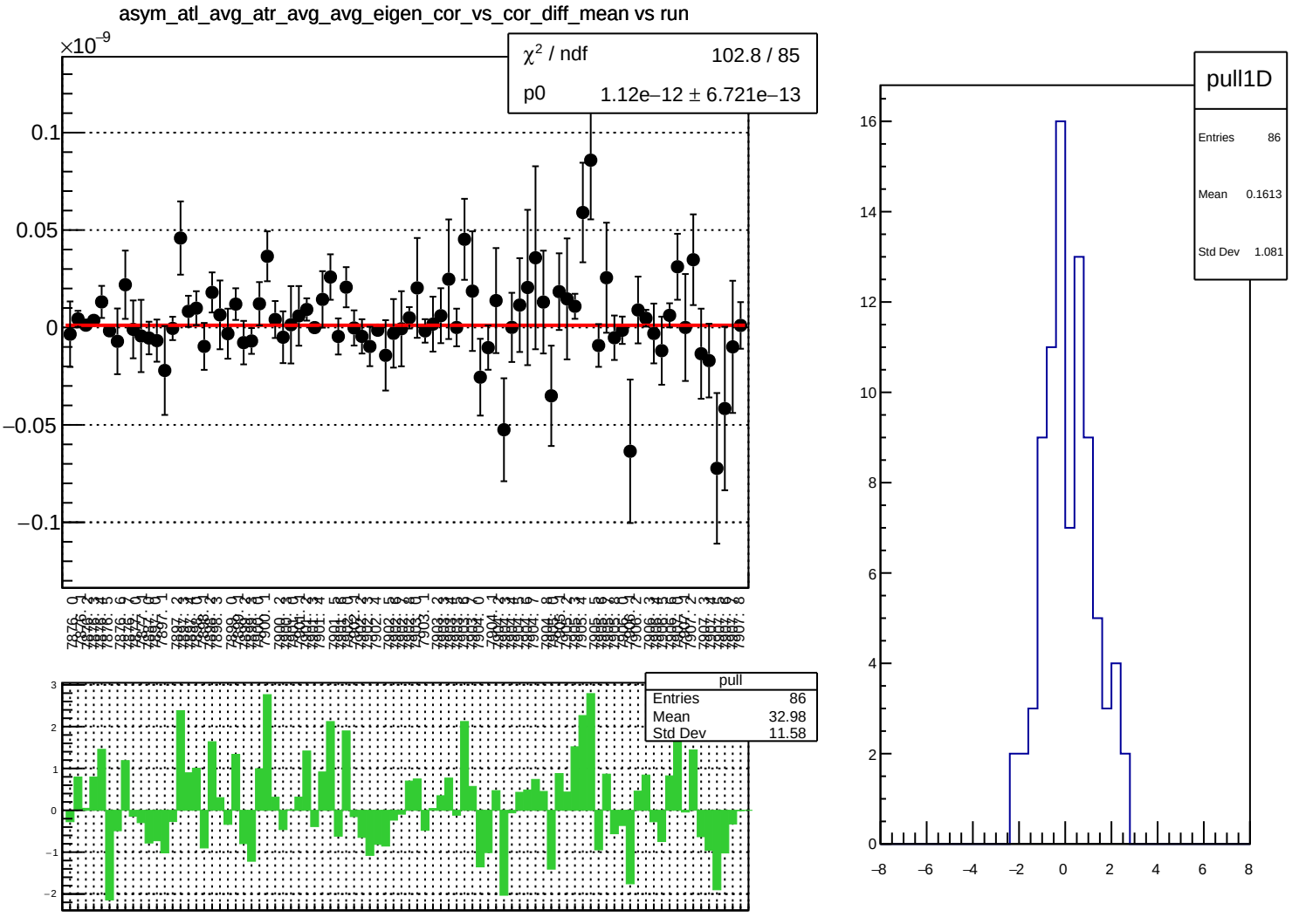

pull1D
Entries 86
Mean −0.02638
Std Dev 0.8837

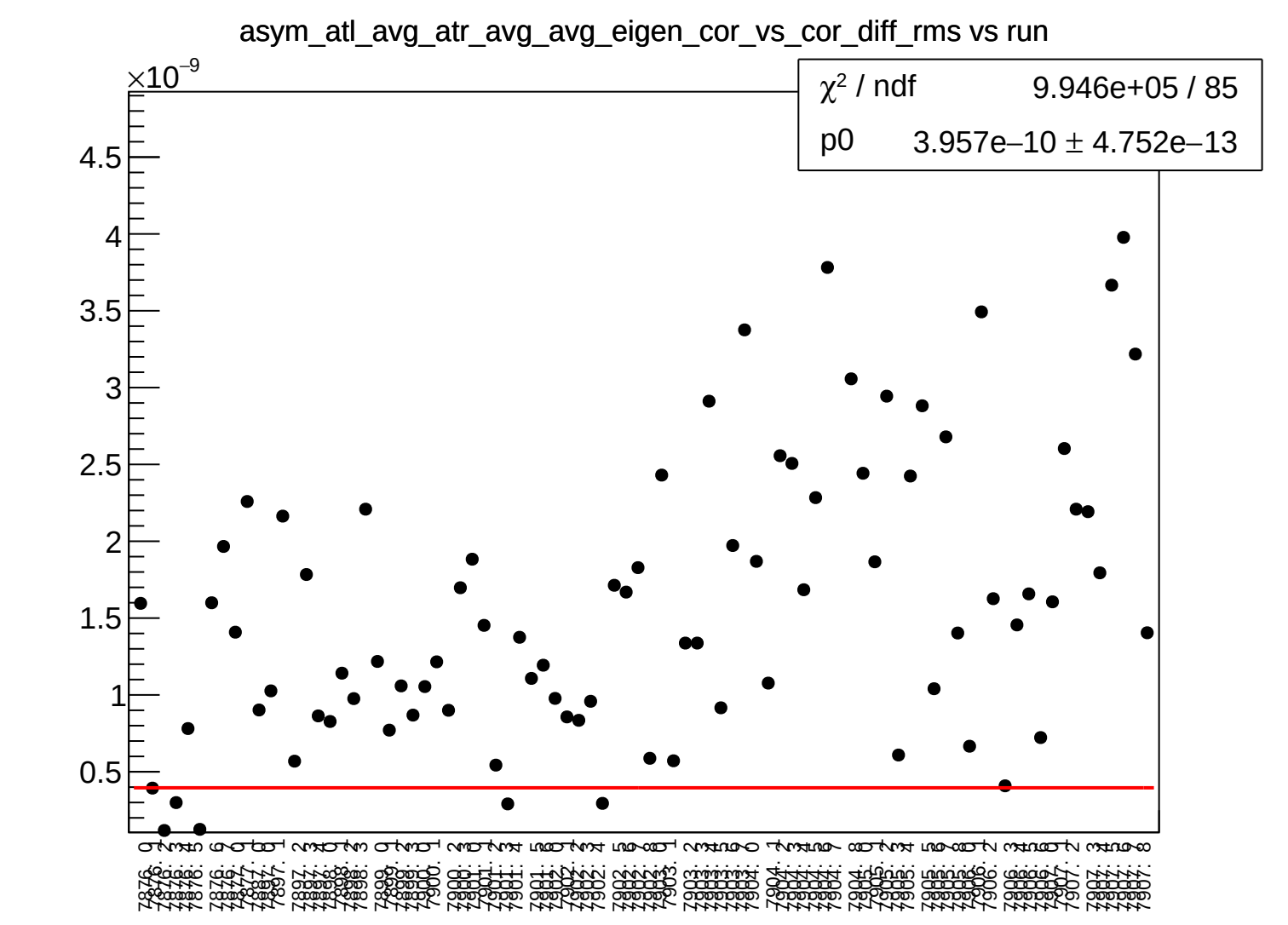

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.539e+05 / 85
p0 321.3 ± 0.2683
1600
1400
1200
1000
800
600
400
200

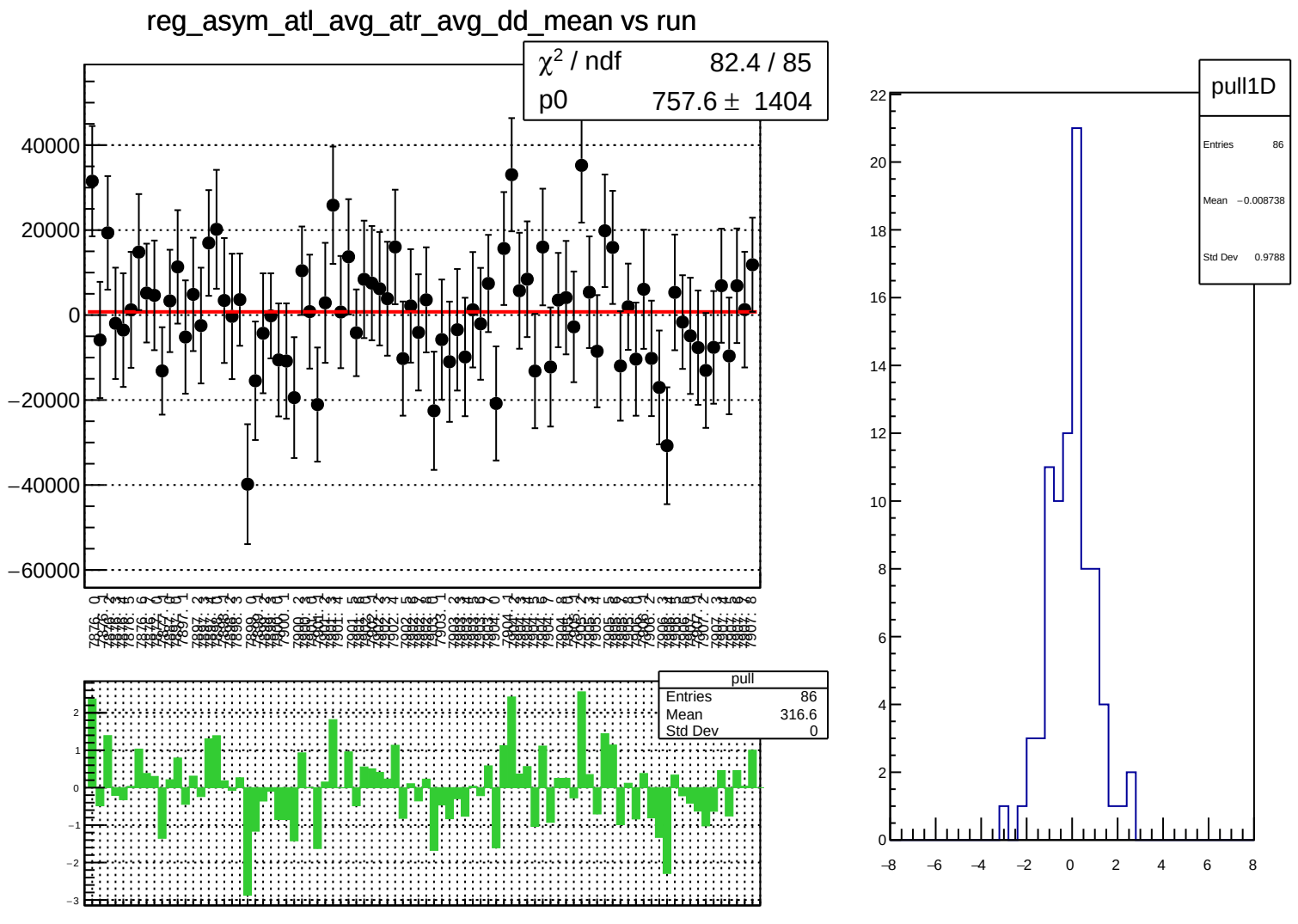

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.22 / 85
p0 −0.1733 ± 0.3794
pull
Entries 86
Mean 78.49
Std Dev 28.29

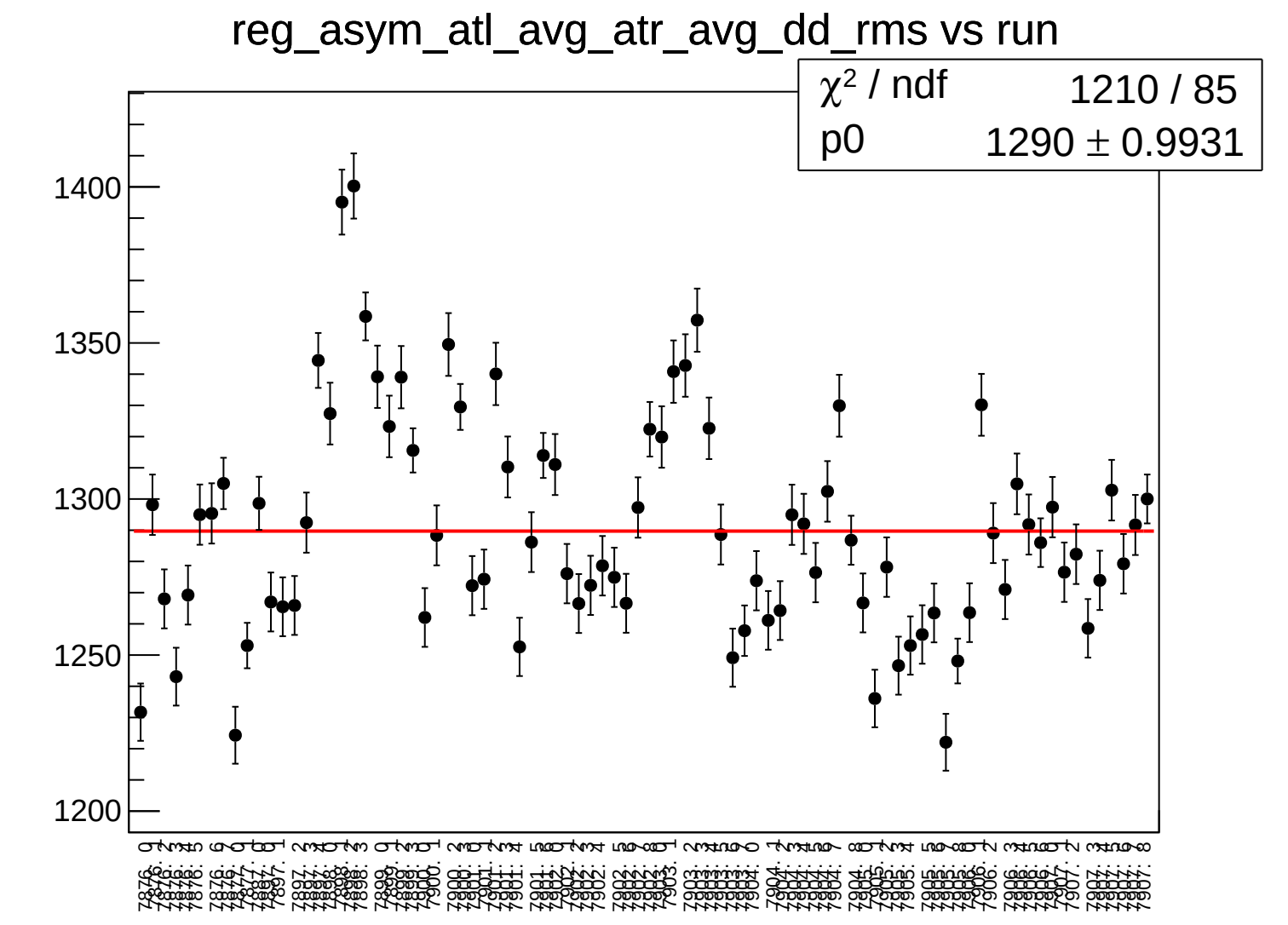

pull1D
Entries 86
Mean −0.02638
Std Dev 0.8837

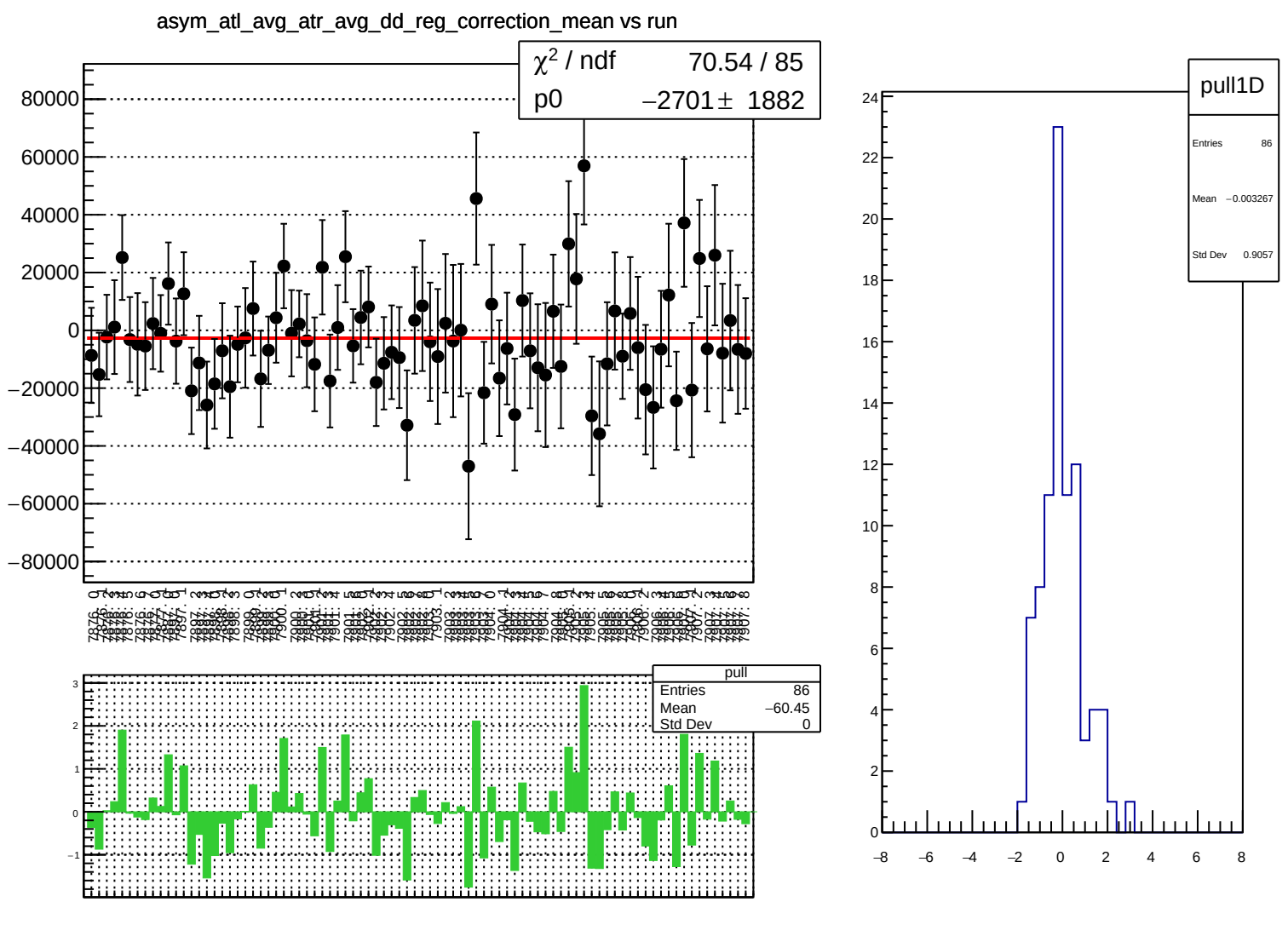

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.539e+05 / 85
p0 321.3 ± 0.2683
1600
1400
1200
1000
800
600
400
200

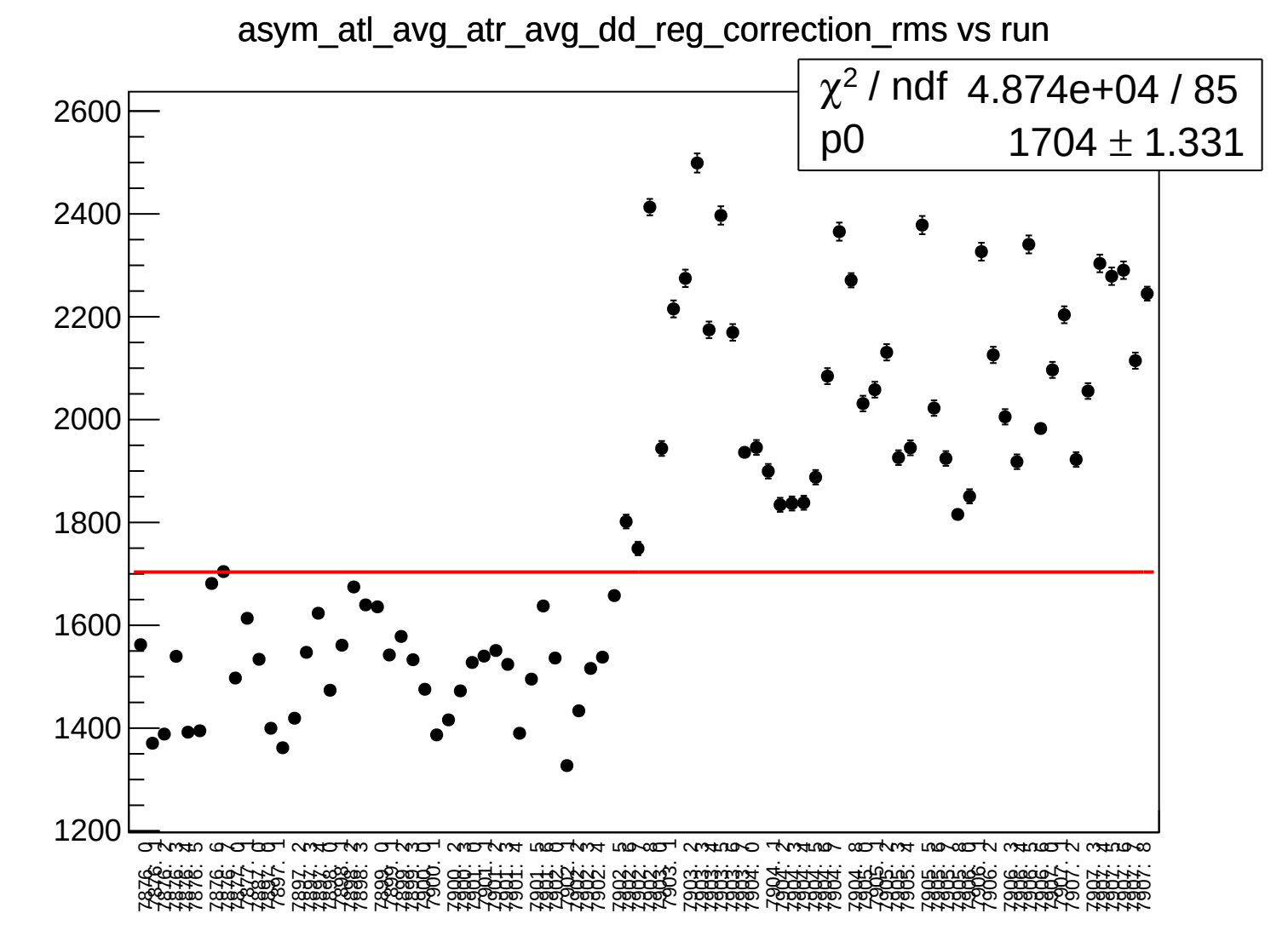

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 102.8 / 85
p0 1.12e−12 ± 6.721e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 32.98
Std Dev 11.58
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.1613
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

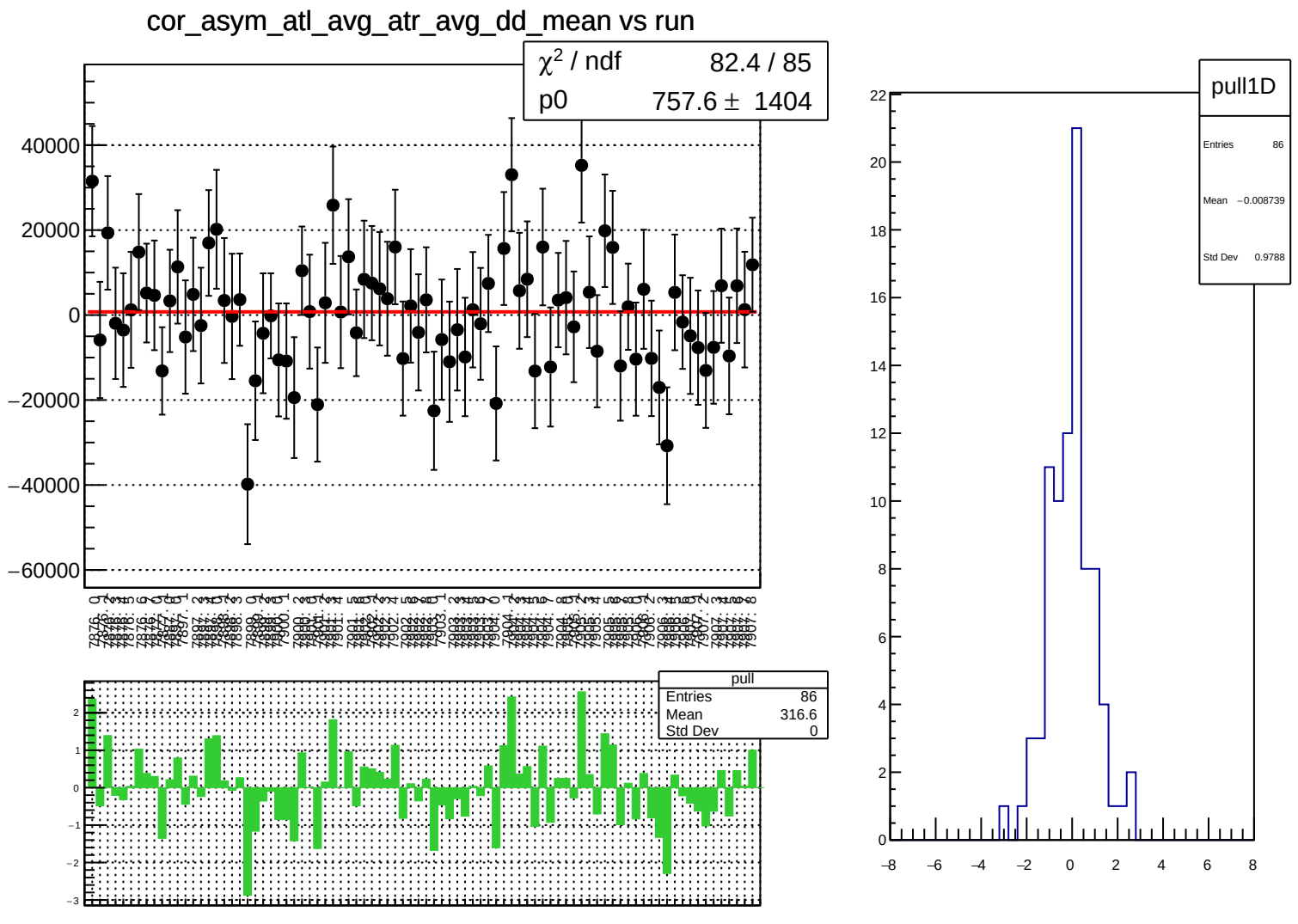

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.946e+05 / 85
p0 3.957e−10 ± 4.752e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

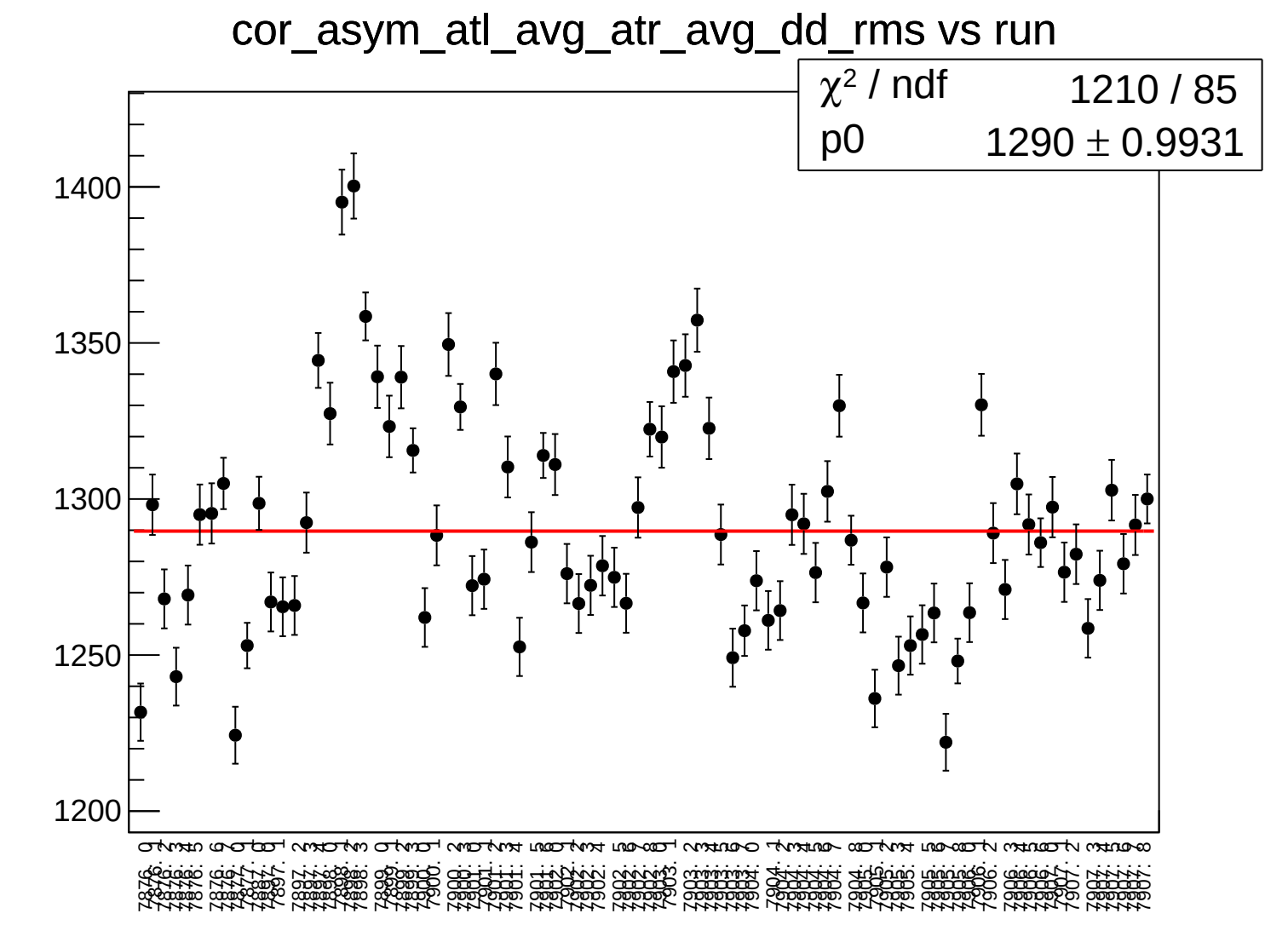

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.4 / 85
p0 757.6 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 316.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.008738
Std Dev 0.9788
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

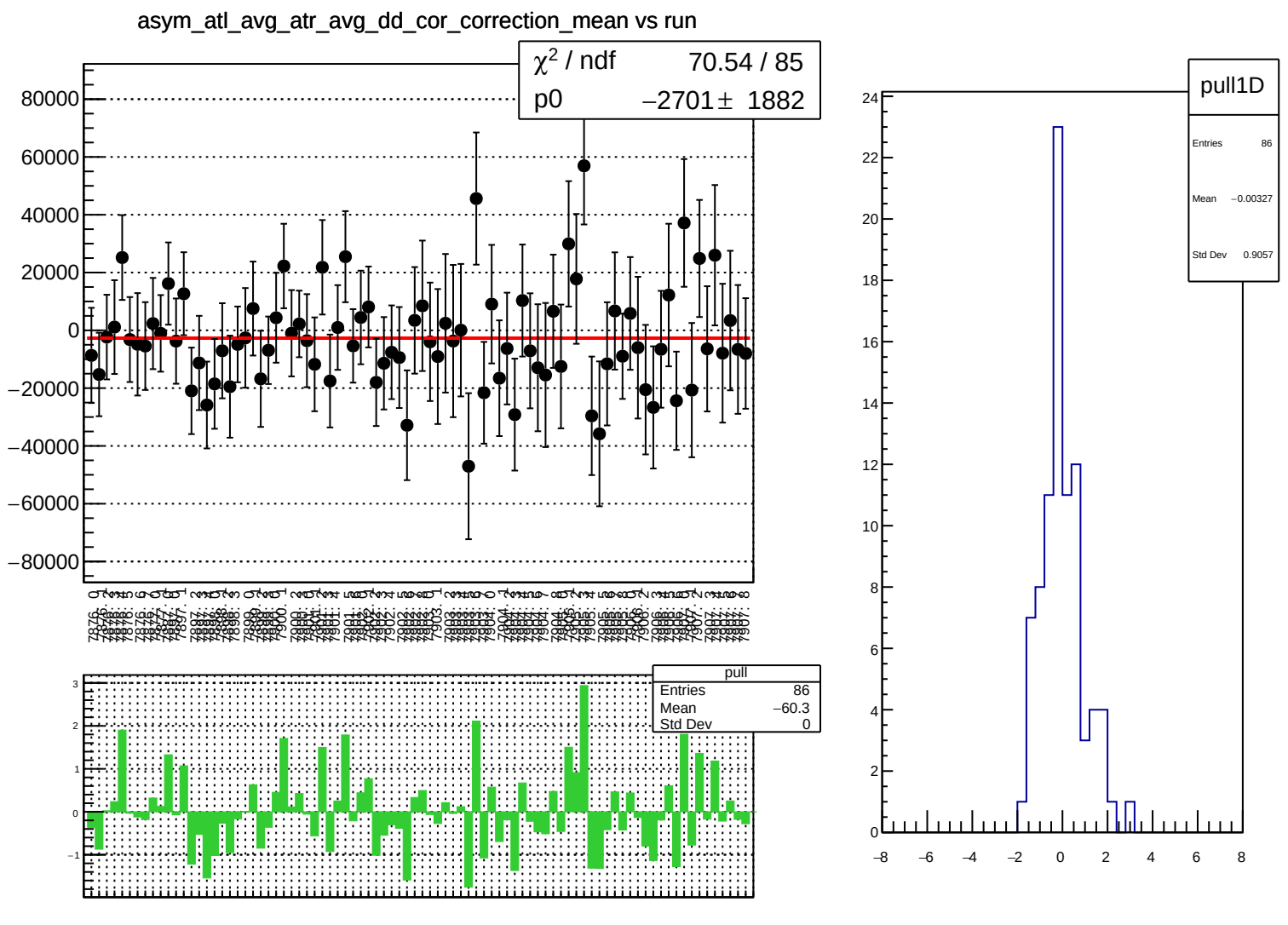

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1210 / 85
p0 1290 ± 0.9931
1400
1350
1300
1250
1200

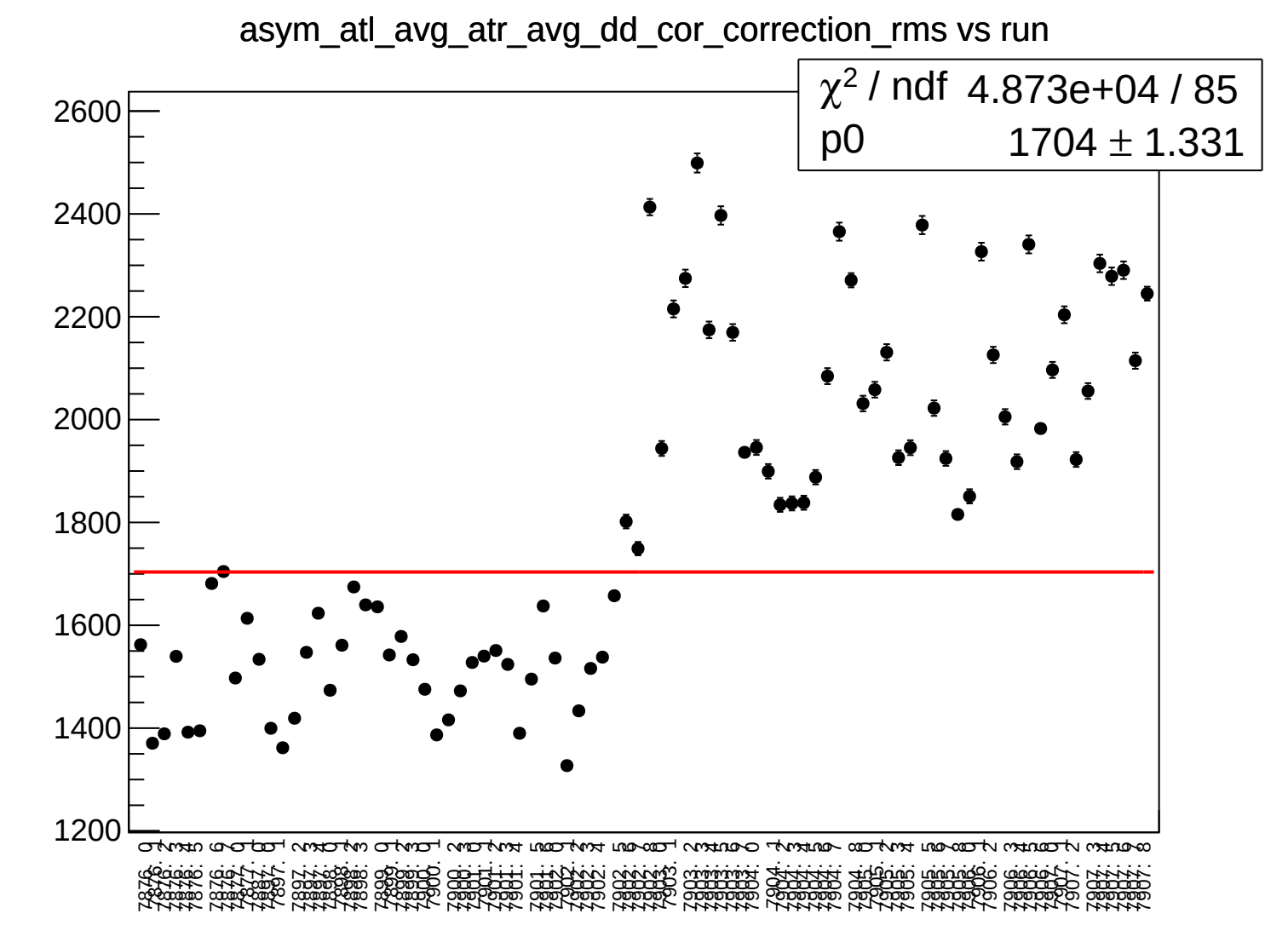

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 70.54 / 85
p0 −2701 ± 1882
pull
Entries 86
Mean −60.45
Std Dev 0
pull1D
Entries 86
Mean −0.003267
Std Dev 0.9057

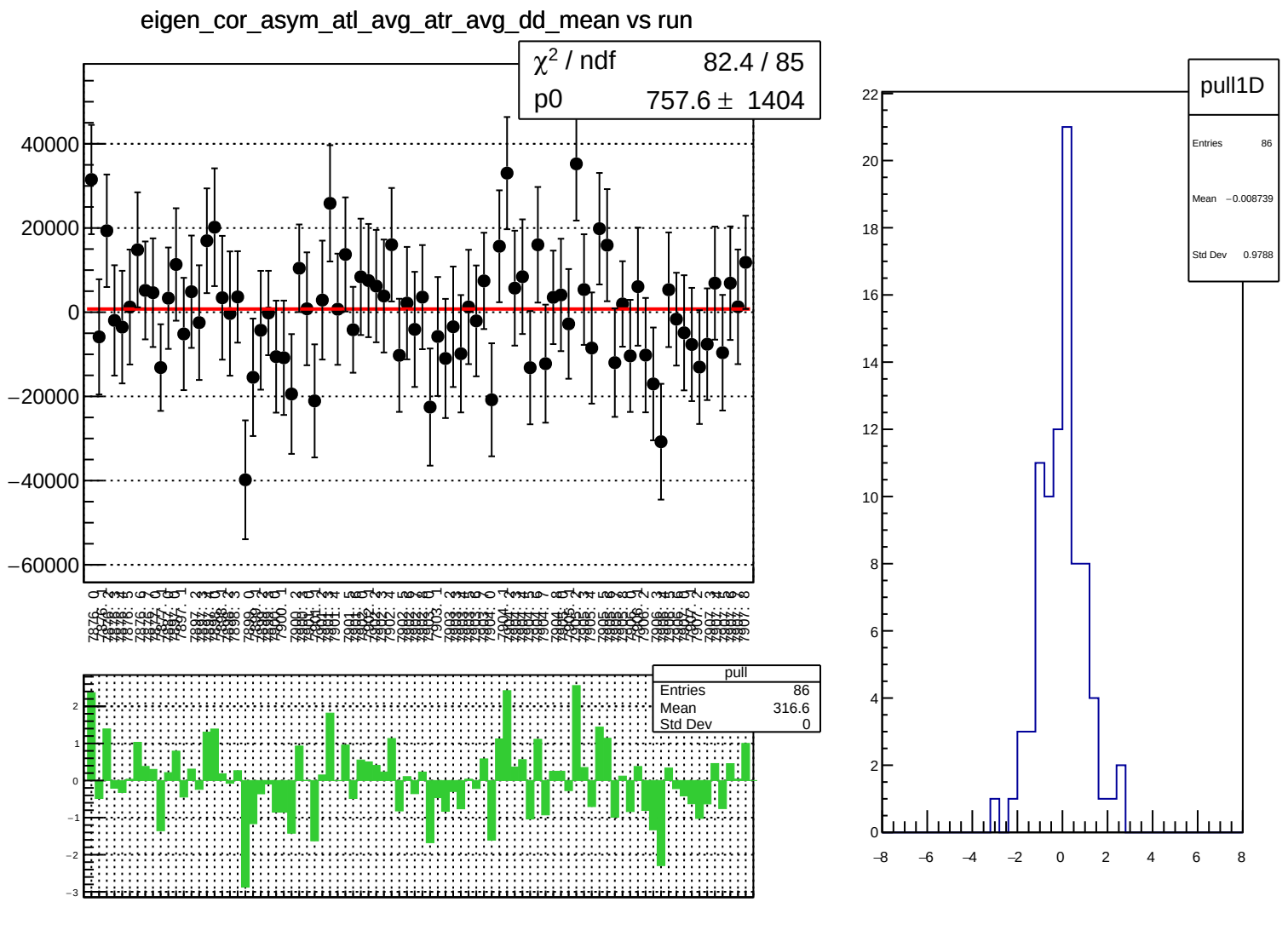

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 4.874e+04 / 85
p0 1704 ± 1.331
2600
2400
2200
2000
1800
1600
1400
1200

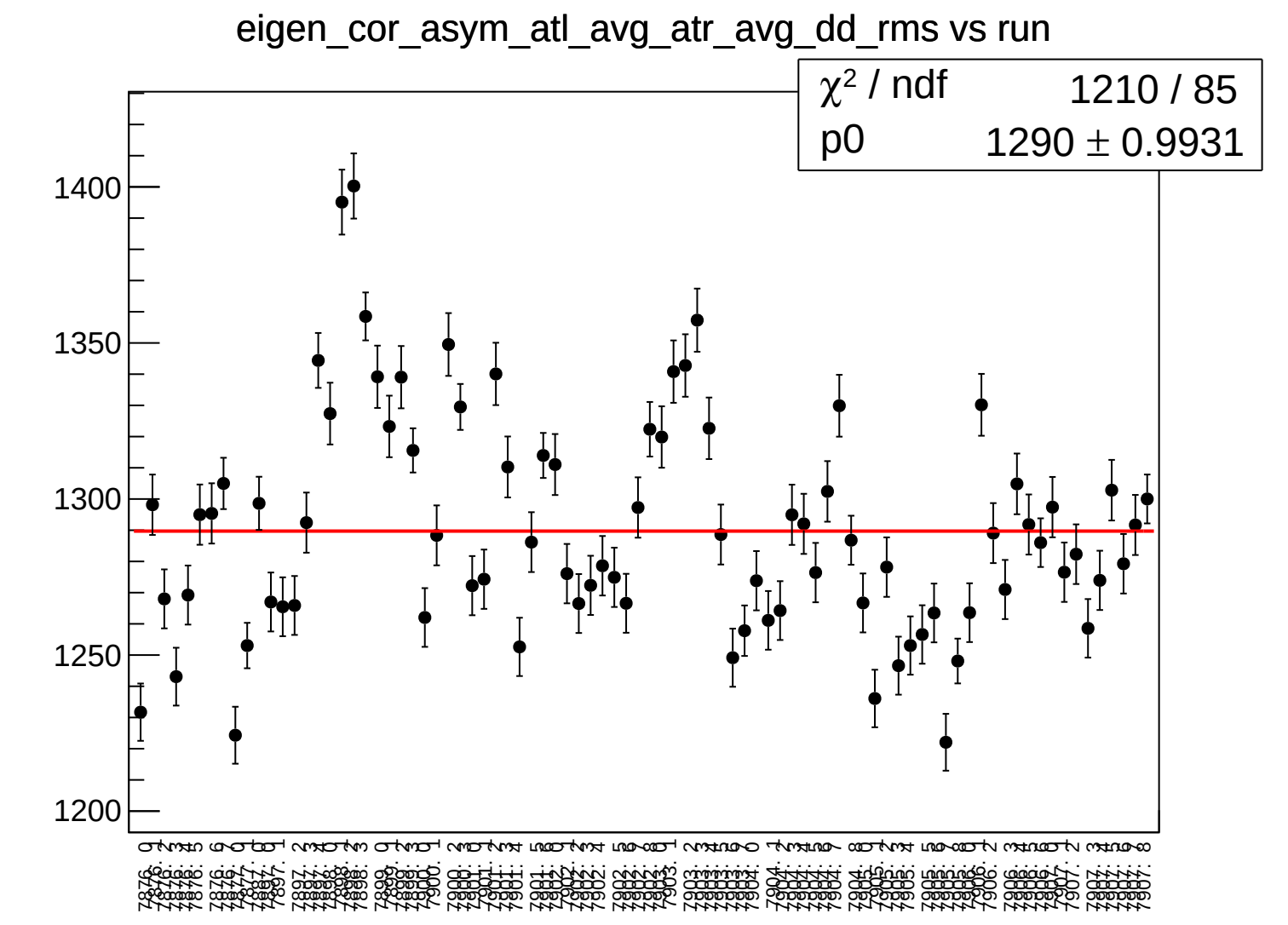

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.4 / 85
p0 757.6 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 316.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.008739
Std Dev 0.9788
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

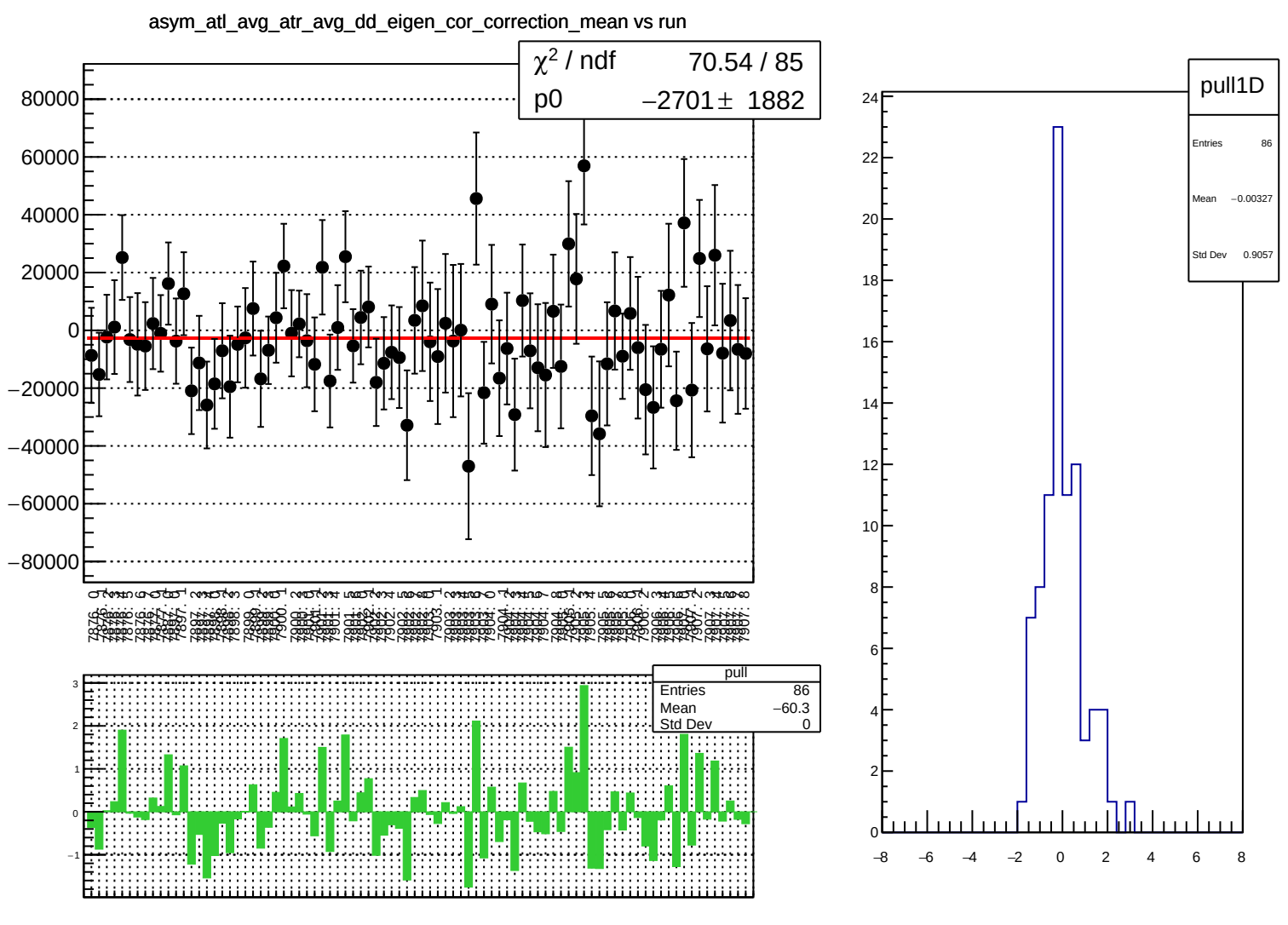

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1210 / 85
p0 1290 ± 0.9931
1400
1350
1300
1250
1200

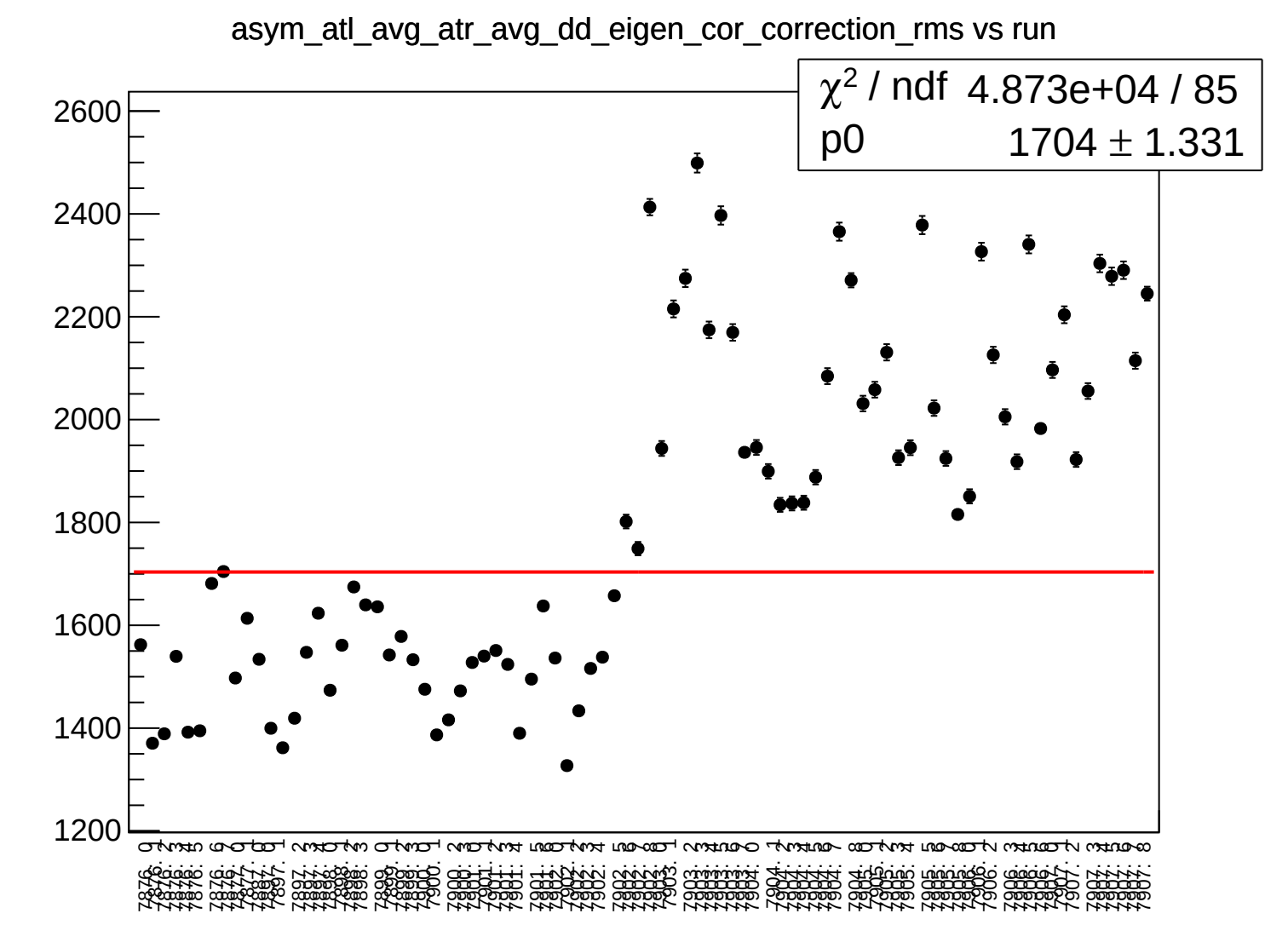

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 70.54 / 85
p0 −2701 ± 1882
pull
Entries 86
Mean −60.3
Std Dev 0
pull1D
Entries 86
Mean −0.00327
Std Dev 0.9057

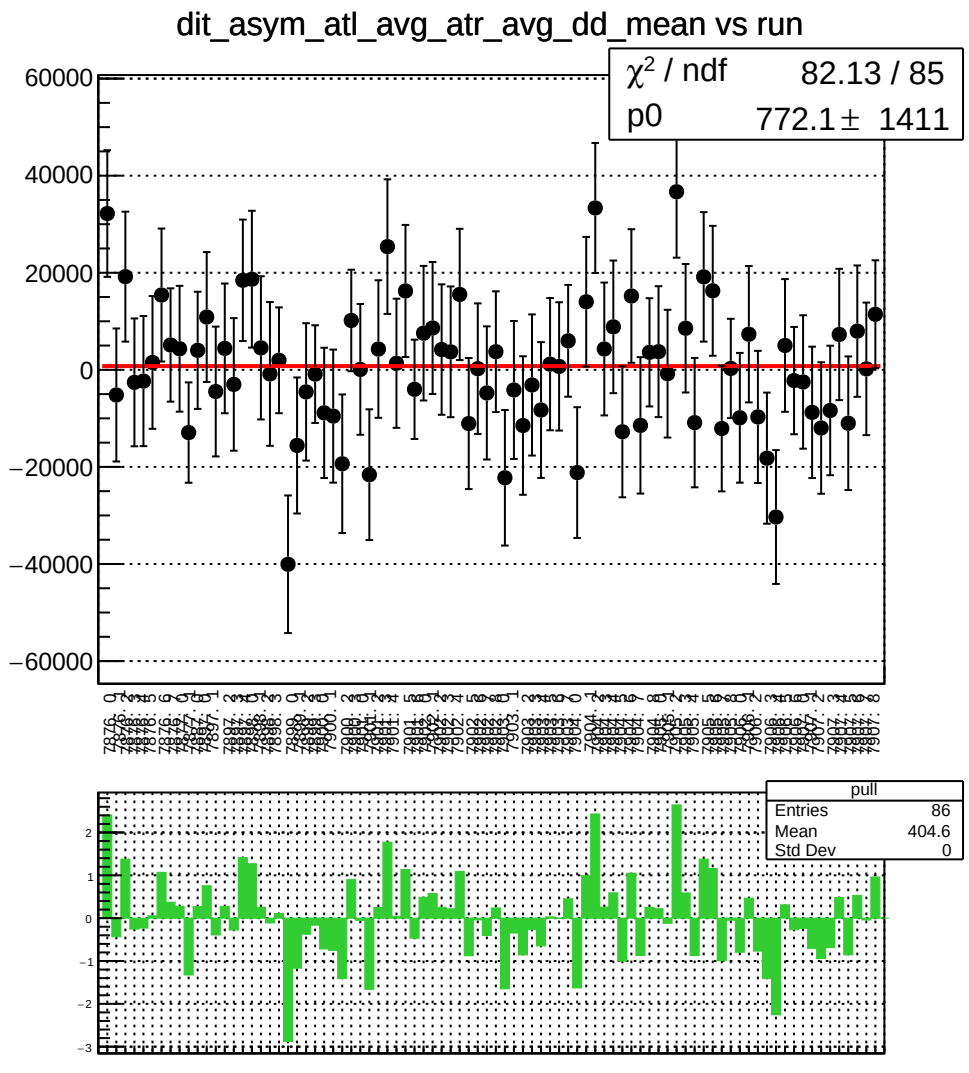

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 4.873e+04 / 85
p0 1704 ± 1.331
2600
2400
2200
2000
1800
1600
1400
1200

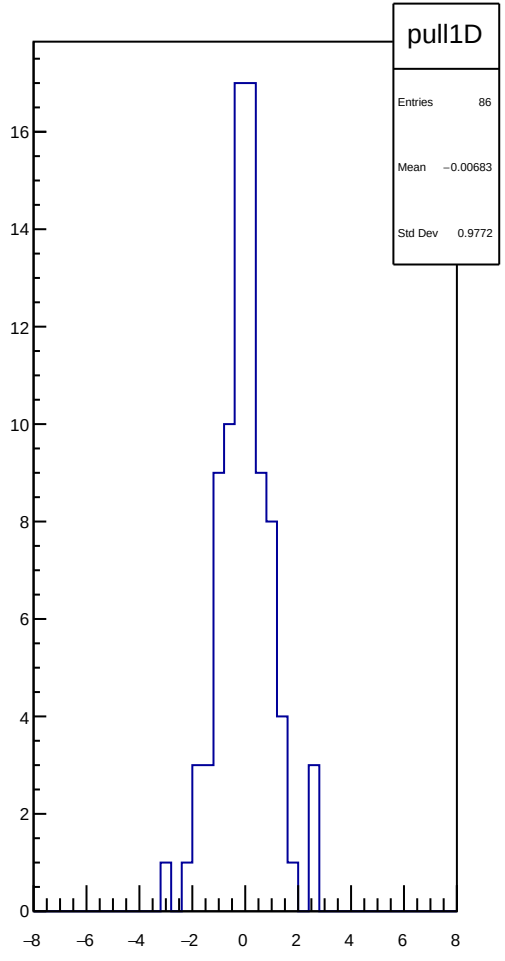

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.4 / 85
p0 757.6 ± 1404
pull
Entries 86
Mean 316.6
Std Dev 0
pull1D
Entries 86
Mean −0.008739
Std Dev 0.9788

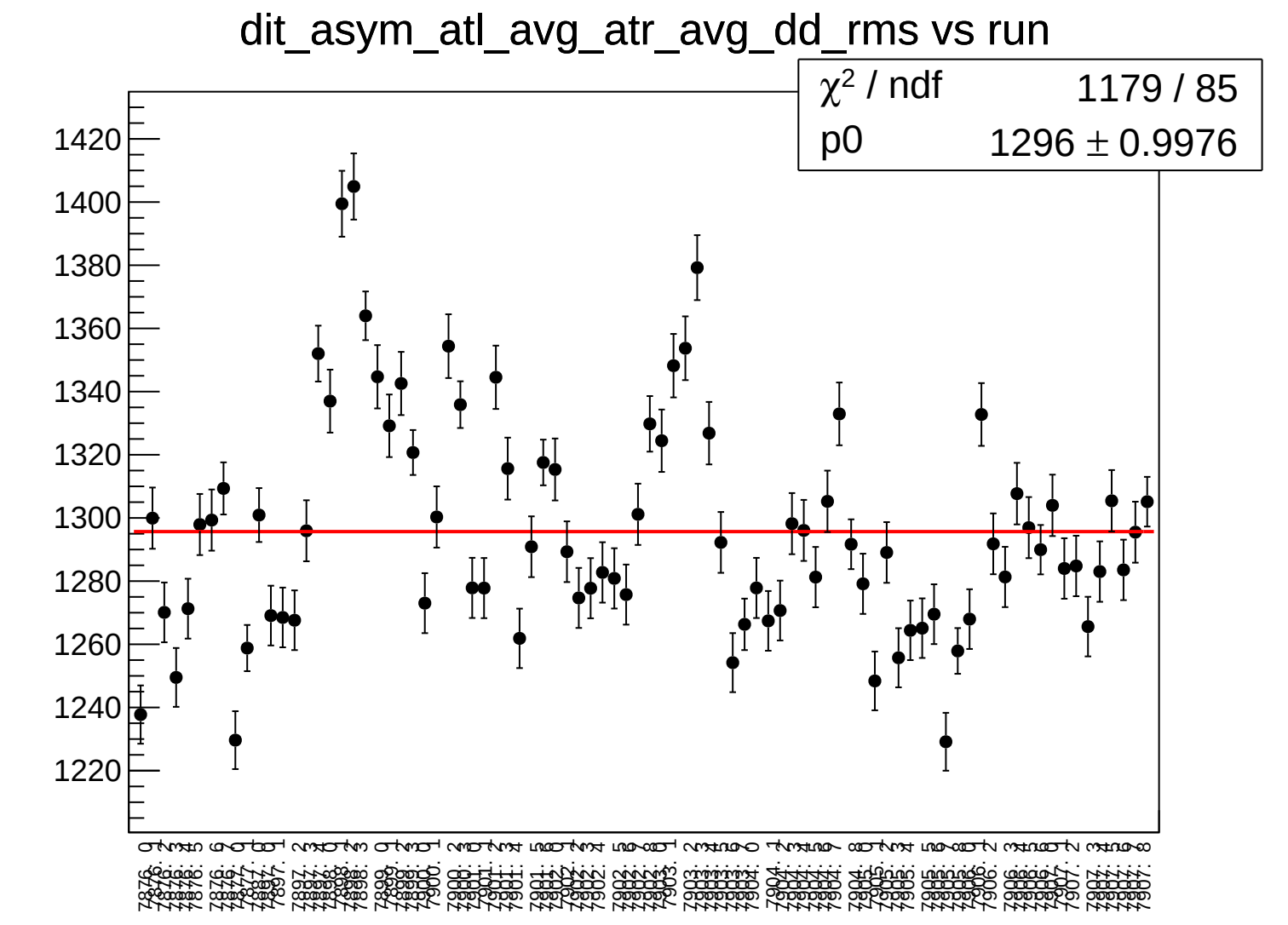

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1210 / 85
p0 1290 ± 0.9931
1400
1350
1300
1250
1200

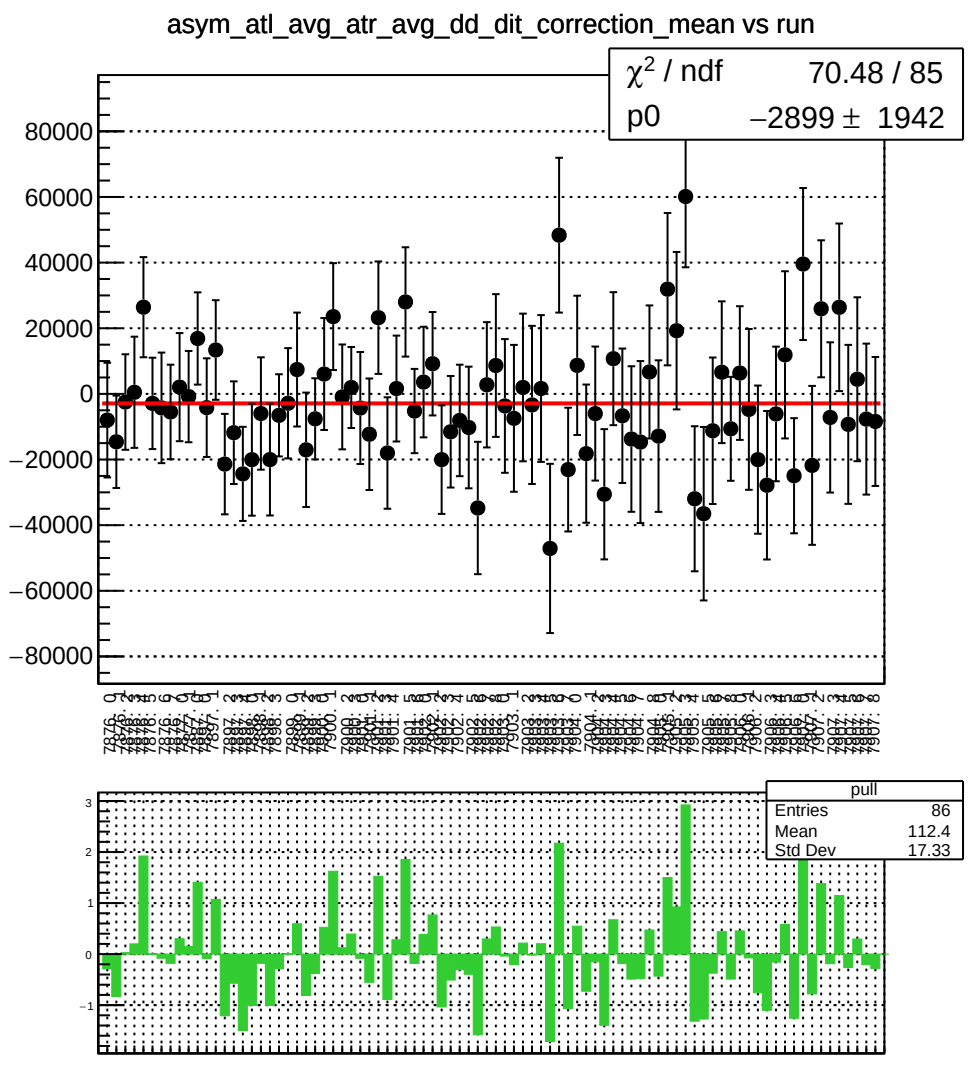

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.54 / 85
p0 −2701 ± 1882
pull
Entries 86
Mean −60.3
Std Dev 0
pull1D
Entries 86
Mean −0.00327
Std Dev 0.9057

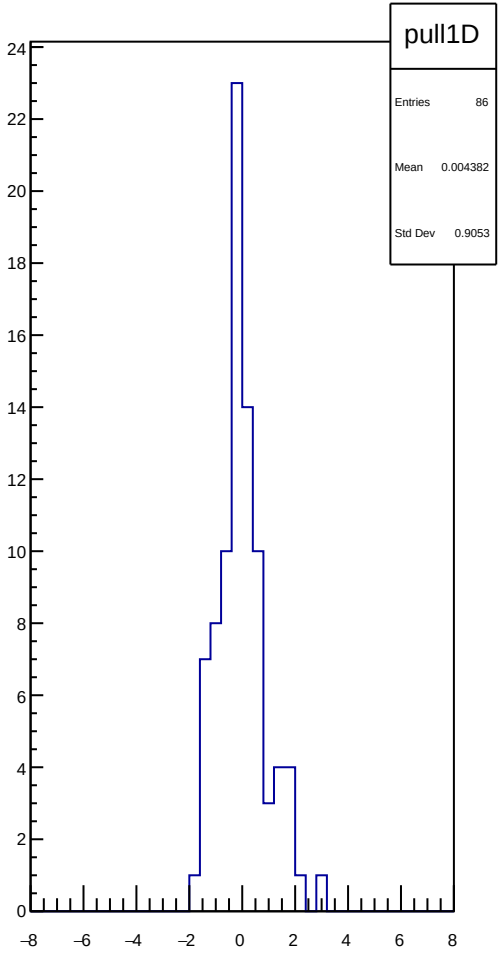

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.873e+04 / 85
p0 1704 ± 1.331
2600
2400
2200
2000
1800
1600
1400
1200

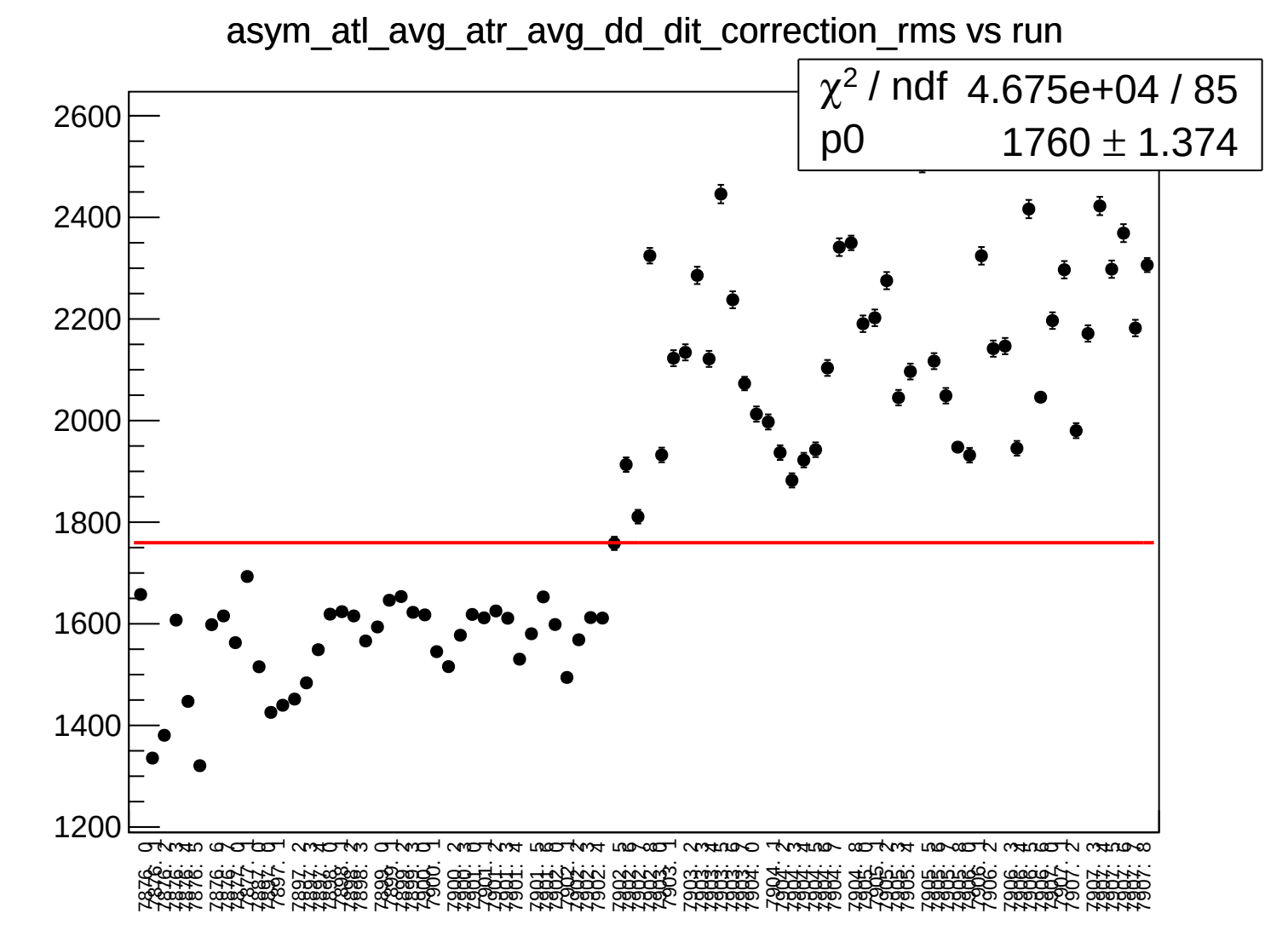

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.13 / 85
p0 772.1 ± 1411
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 404.6
Std Dev 0
2
1
0
−1
−2
−3

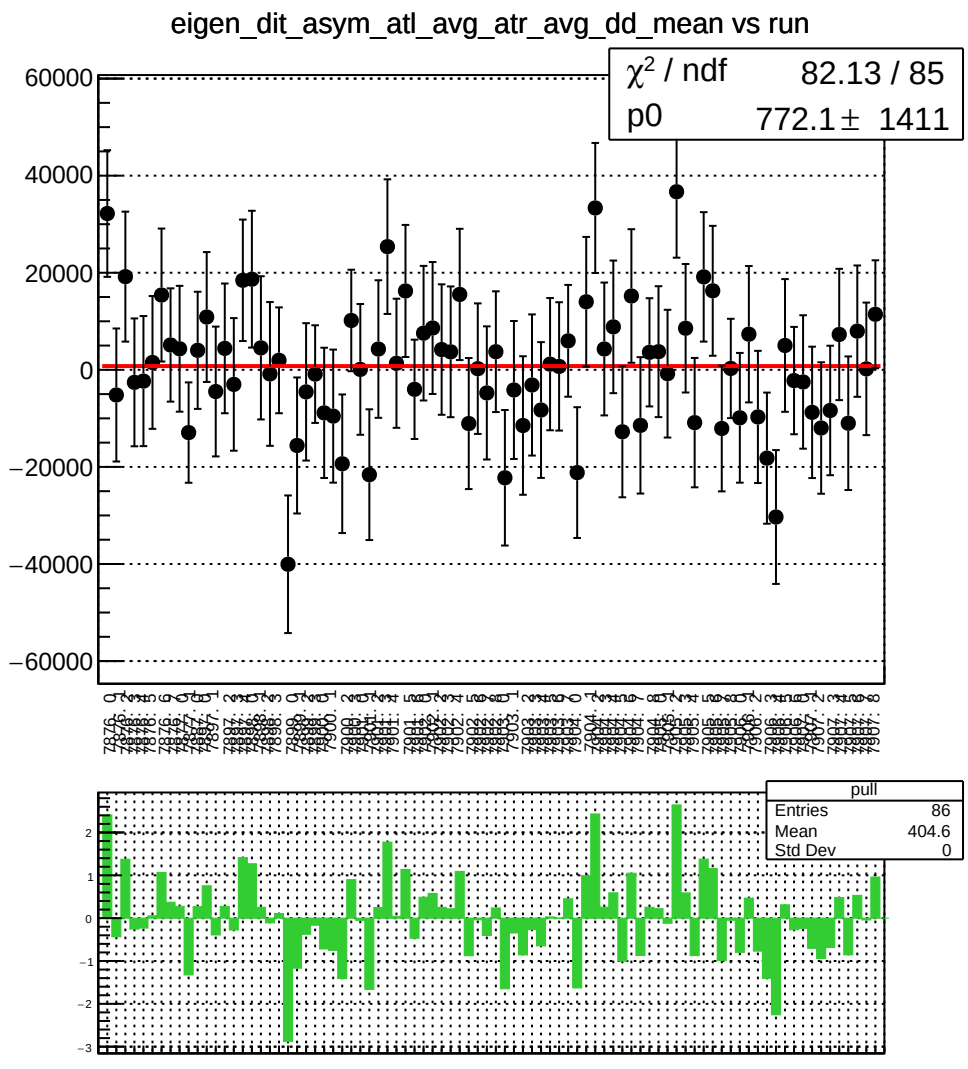

pull1D
Entries 86
Mean −0.00683
Std Dev 0.9772
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

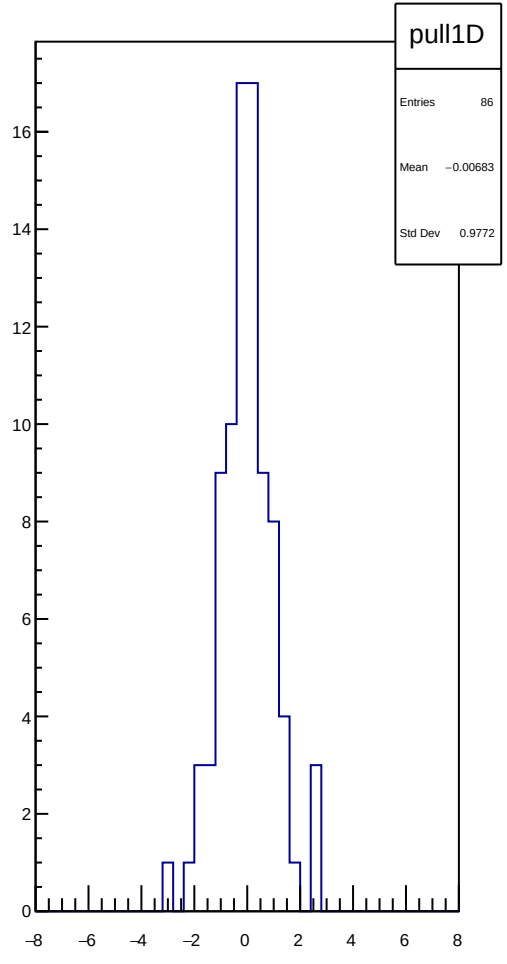

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1179 / 85
p0 1296 ± 0.9976
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

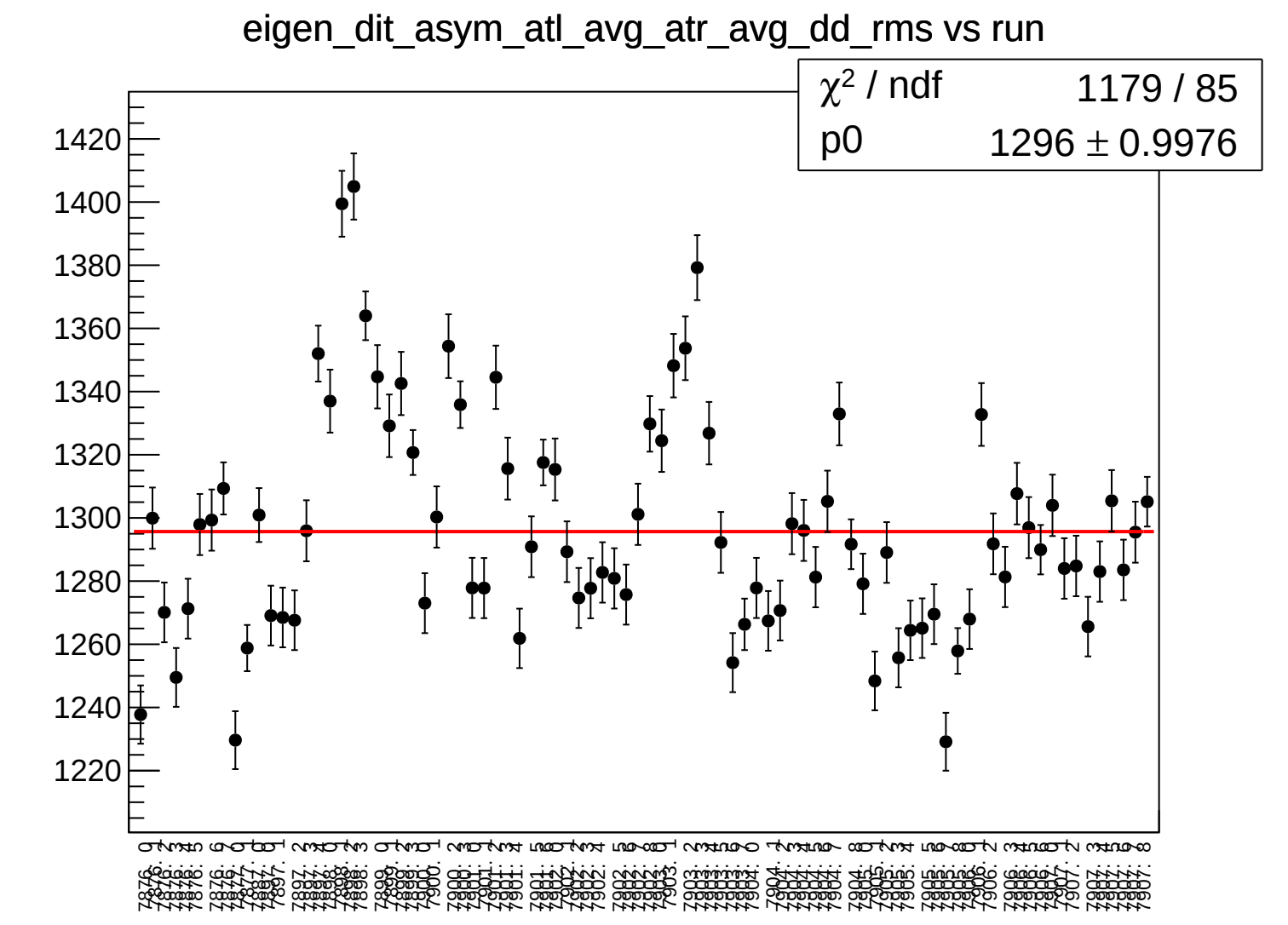

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 70.48 / 85
p0 −2899 ± 1942
pull
Entries 86
Mean 112.4
Std Dev 17.33

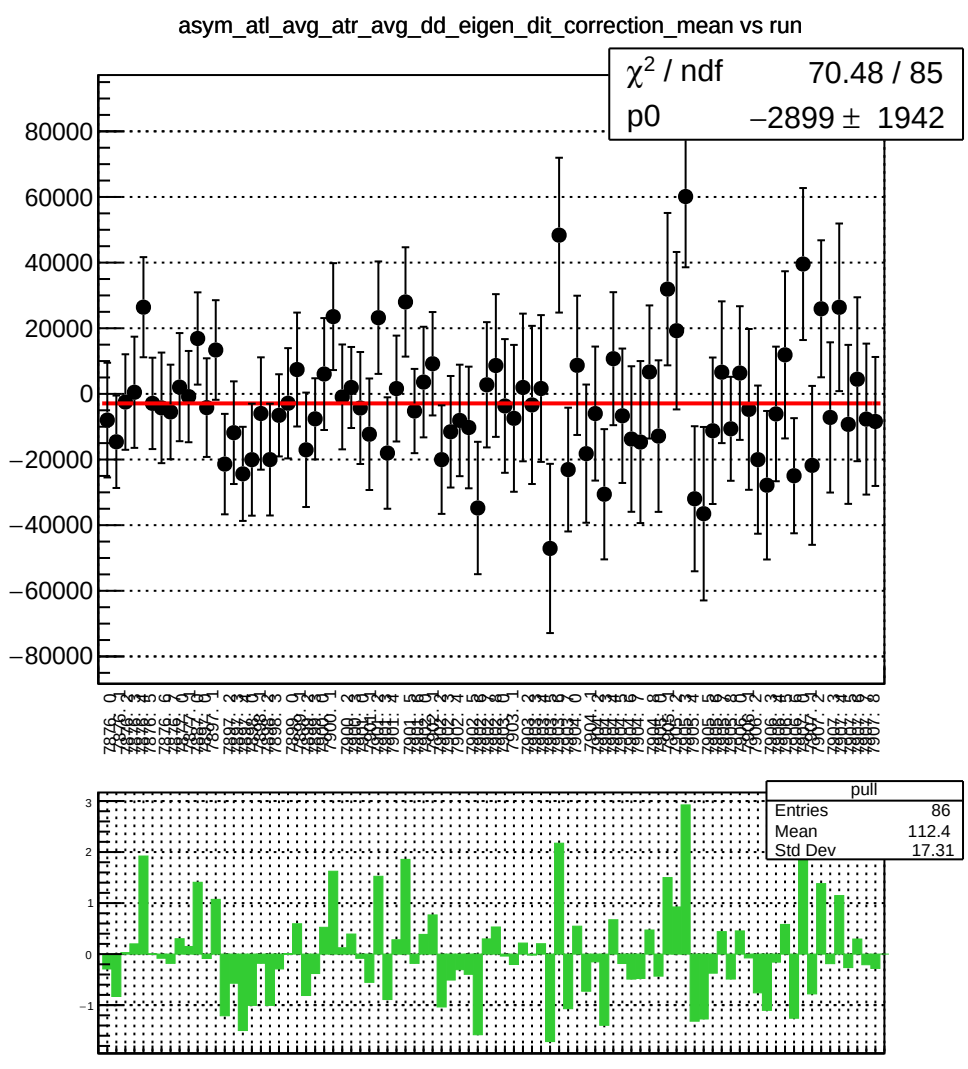

pull1D
Entries 86
Mean 0.004382
Std Dev 0.9053

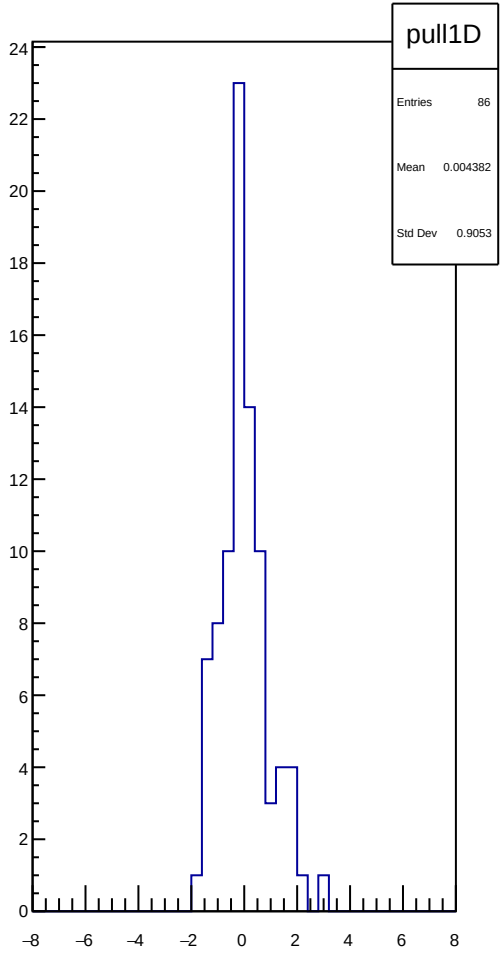

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4.675e+04 / 85
p0 1760 ± 1.374
2600
2400
2200
2000
1800
1600
1400
1200

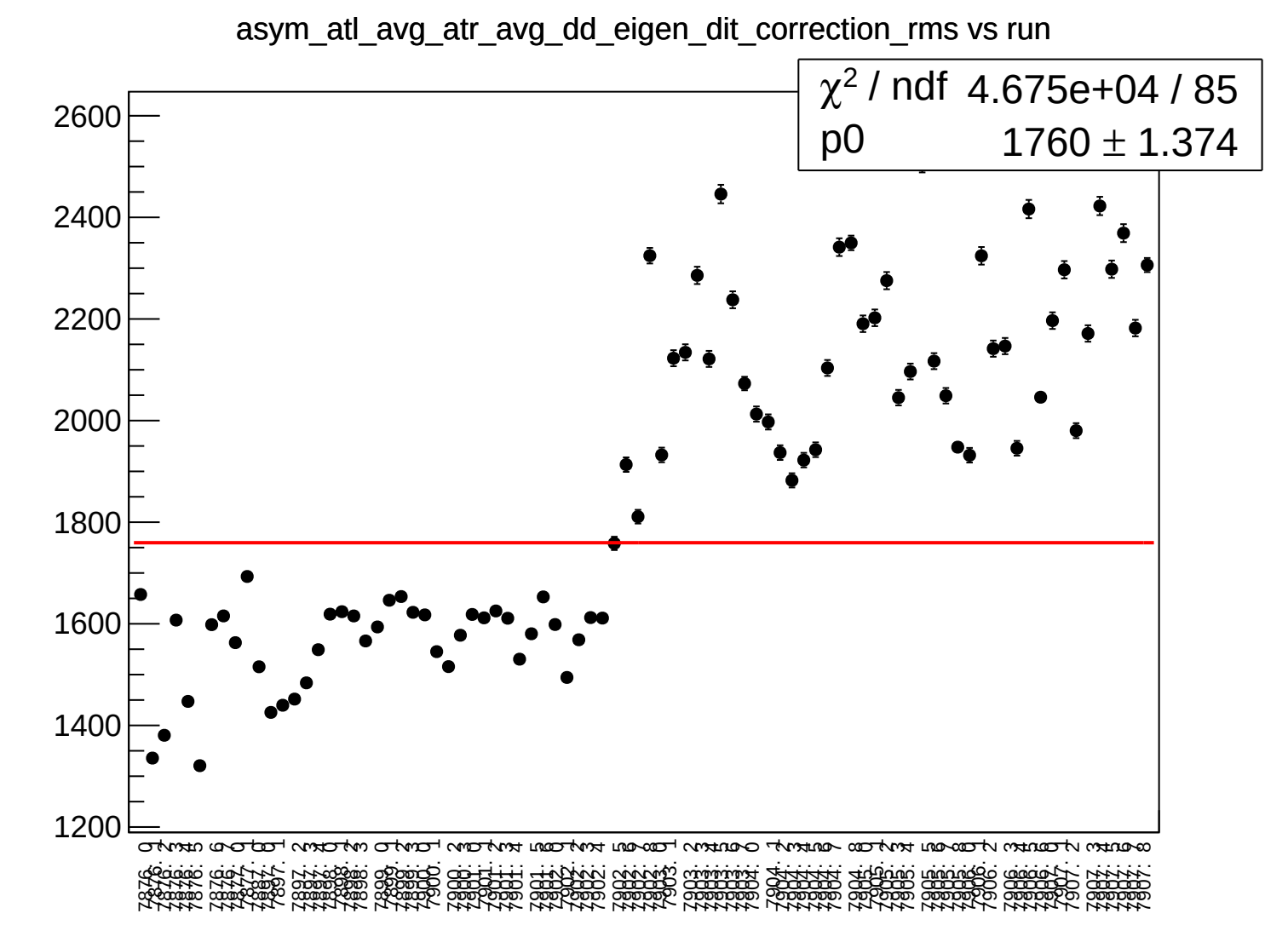

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.13 / 85
p0 772.1 ± 1411
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 404.6
Std Dev 0
2
1
0
−1
−2
−3

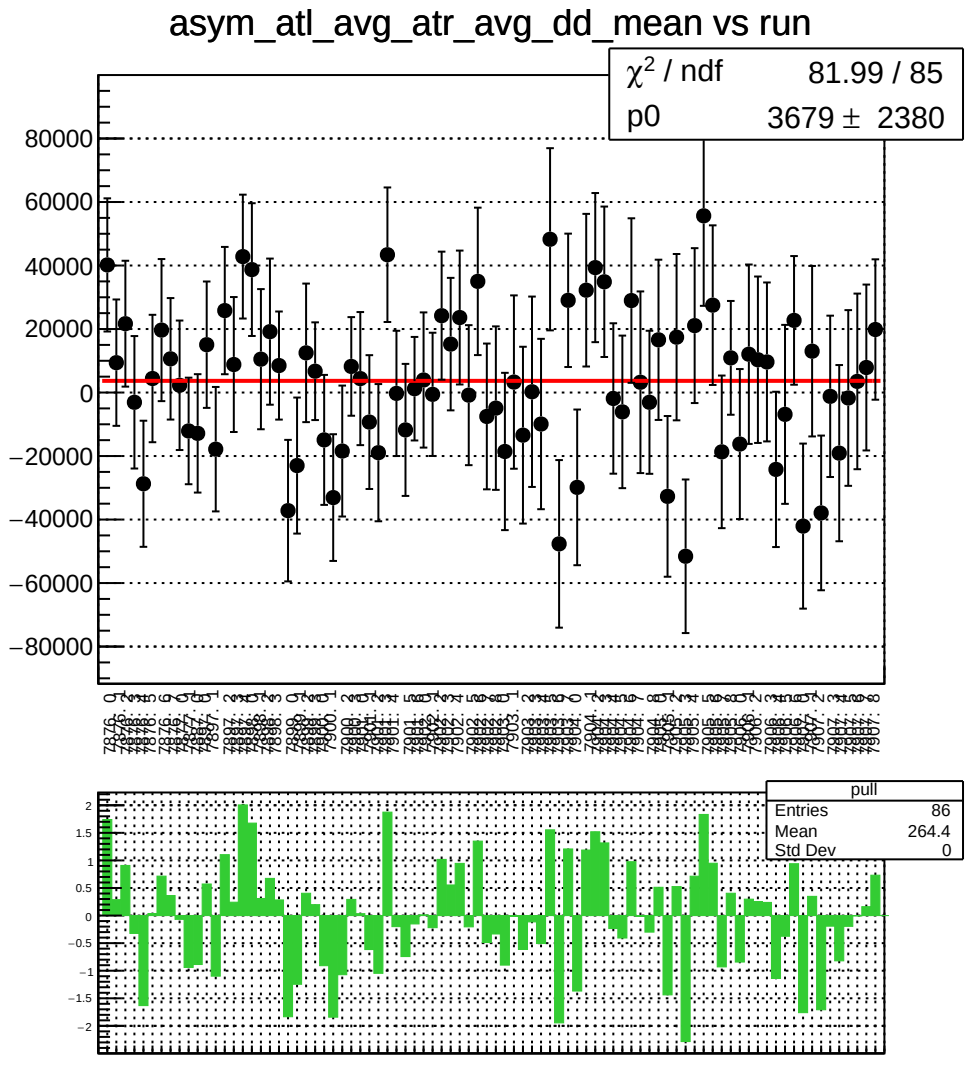

pull1D
Entries 86
Mean −0.00683
Std Dev 0.9772
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

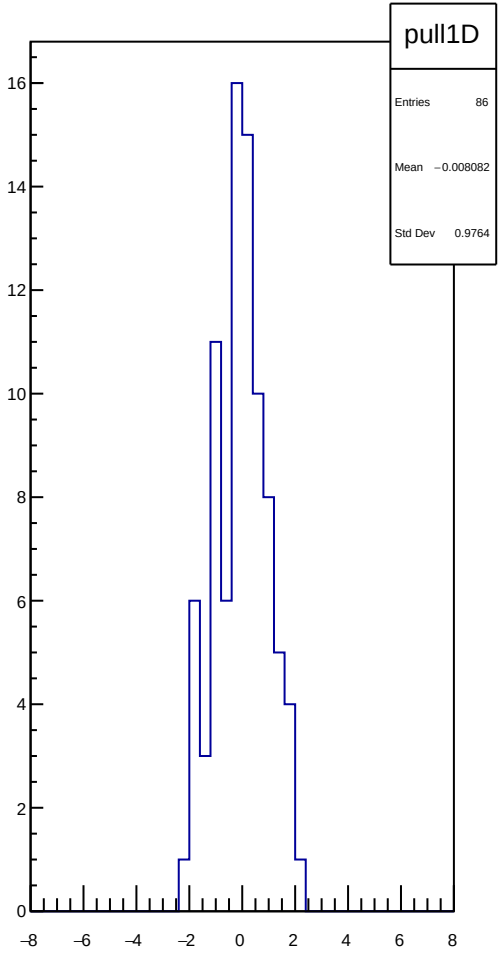

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1179 / 85
p0 1296 ± 0.9976
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

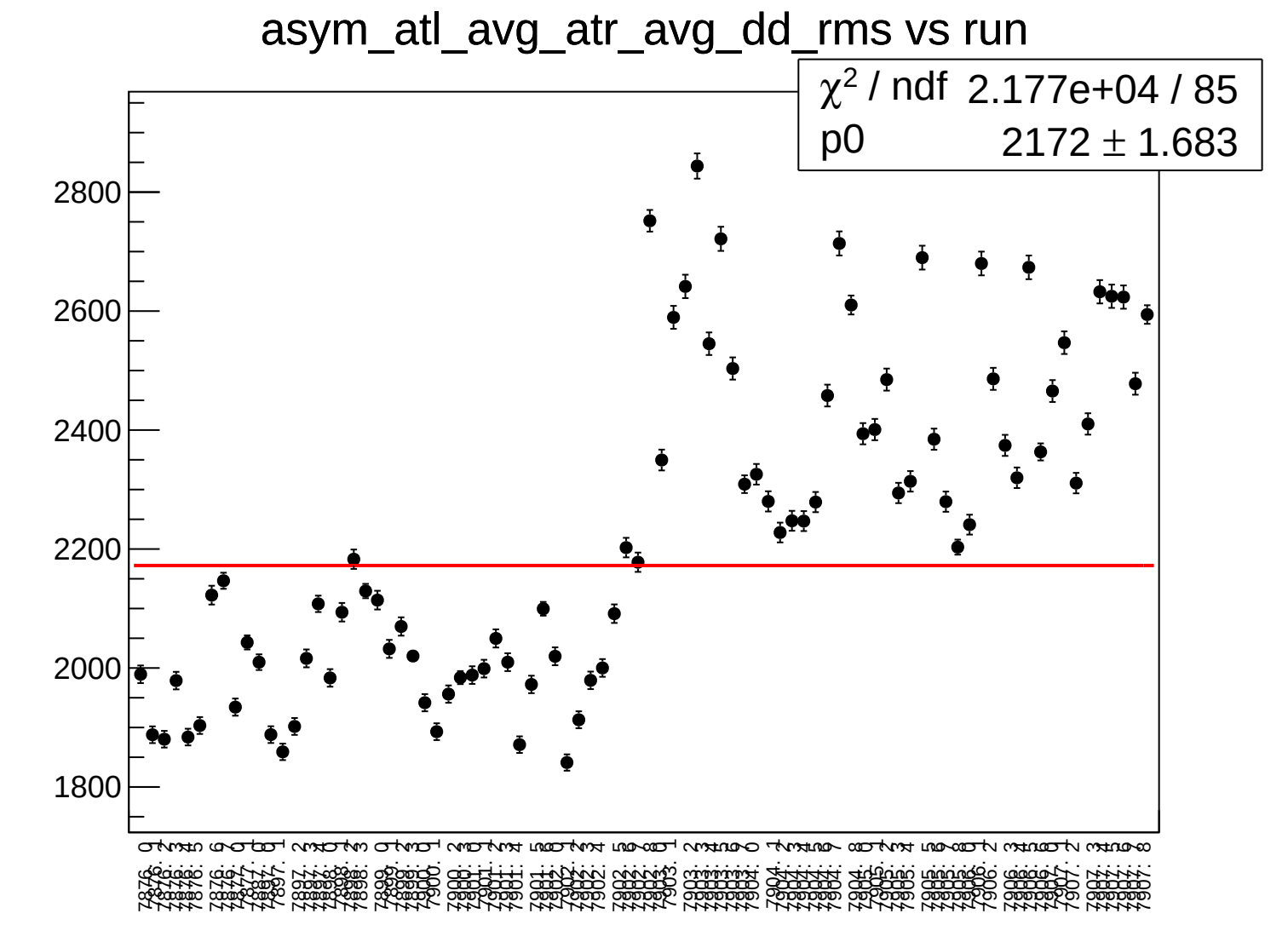

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.48 / 85
p0 −2899 ± 1942
pull
Entries 86
Mean 112.4
Std Dev 17.31

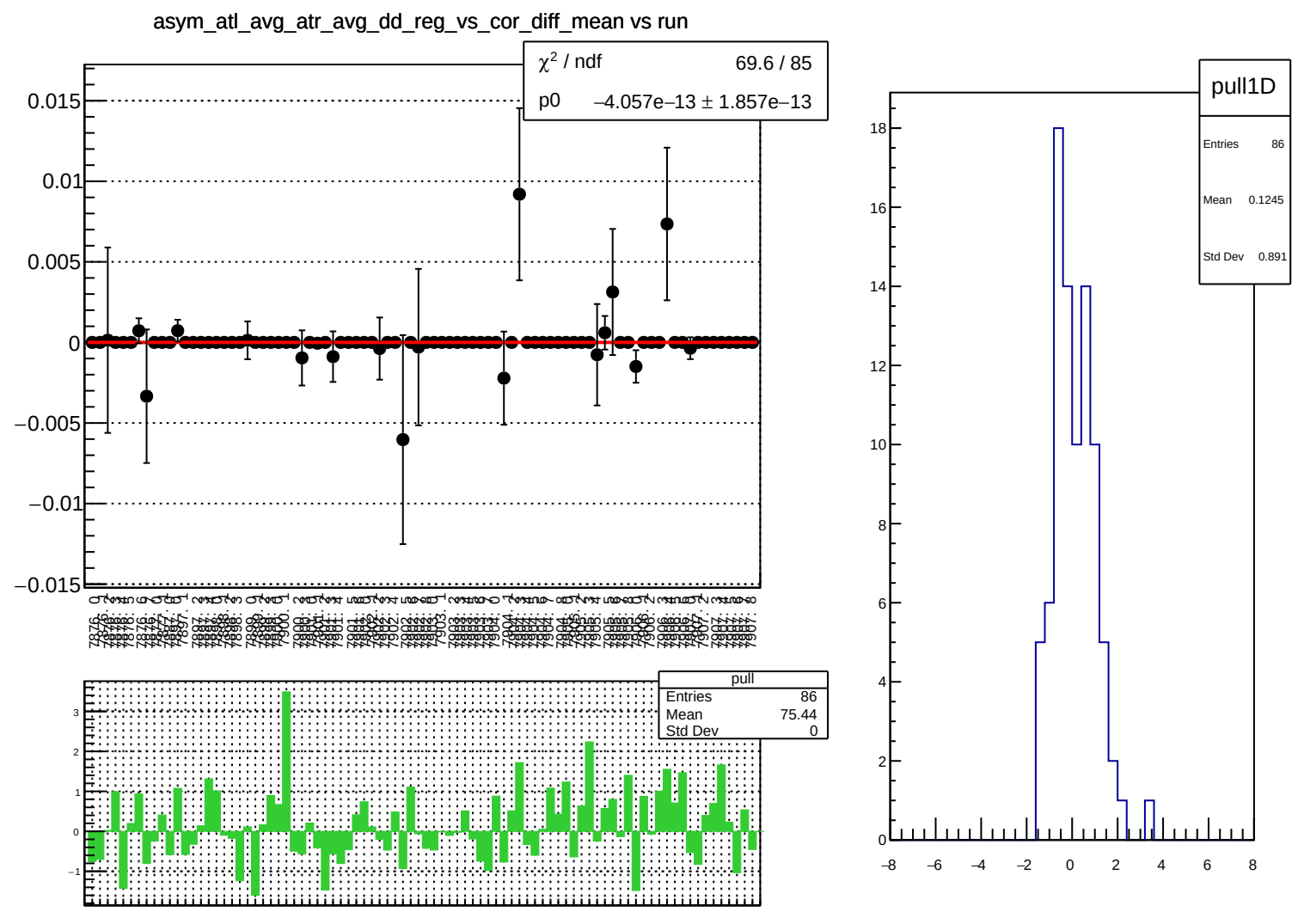

pull1D
Entries 86
Mean 0.004382
Std Dev 0.9053

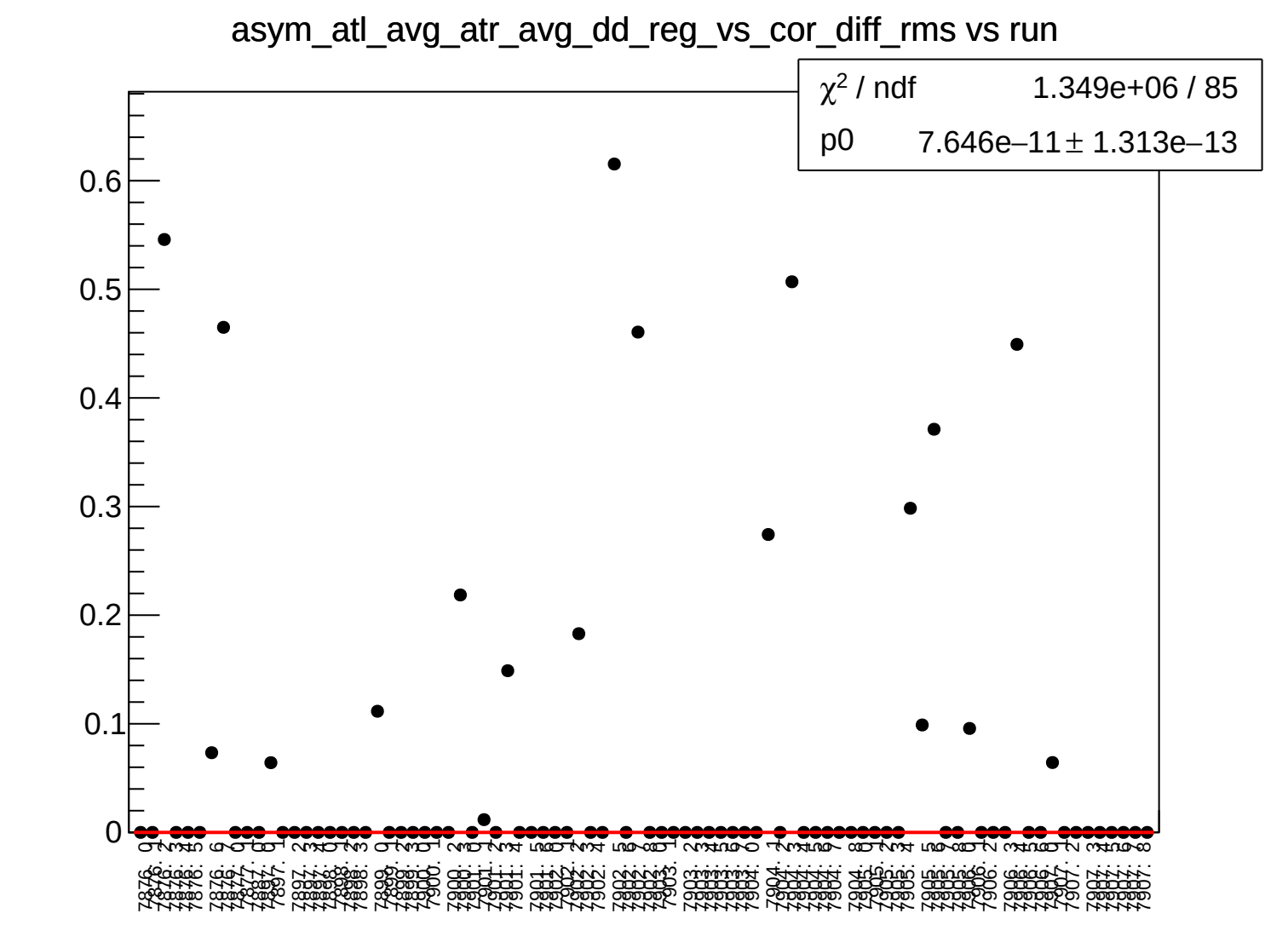

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.675e+04 / 85
p0 1760 ± 1.374
2600
2400
2200
2000
1800
1600
1400
1200


asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 81.99 / 85
p0 3679 ± 2380
pull
Entries 86
Mean 264.4
Std Dev 0

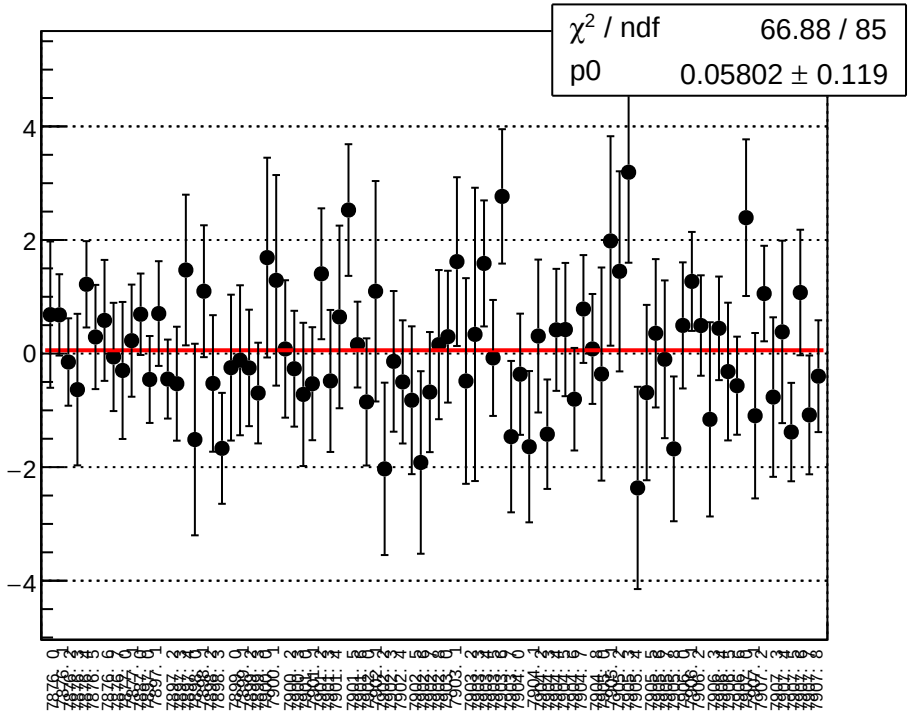

pull1D
Entries 86
Mean −0.008082
Std Dev 0.9764

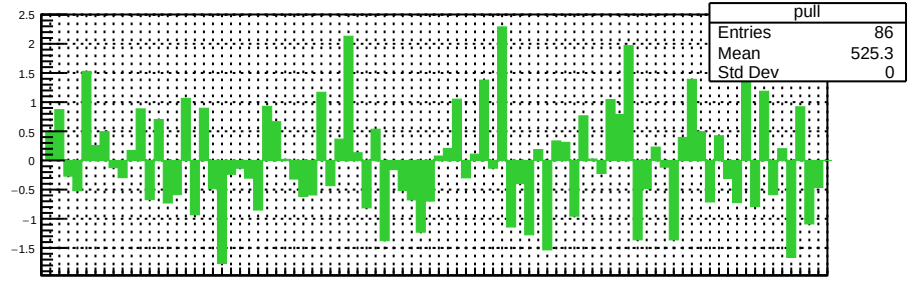

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2.177e+04 / 85
p0 2172 ± 1.683
2800
2600
2400
2200
2000
1800

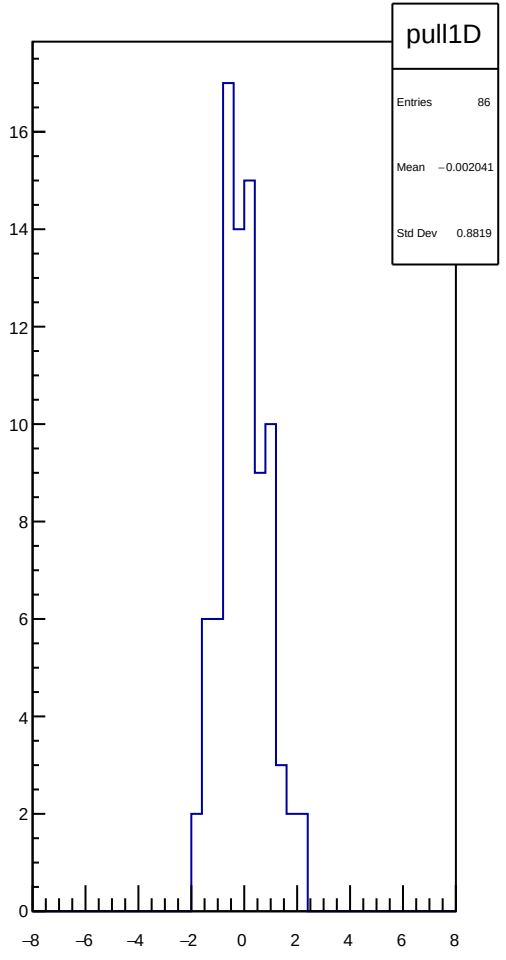

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 69.6 / 85
p0 −4.057e−13 ± 1.857e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean 75.44
Std Dev 0
3
2
1
0
−1
pull1D
Entries 86
Mean 0.1245
Std Dev 0.891
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

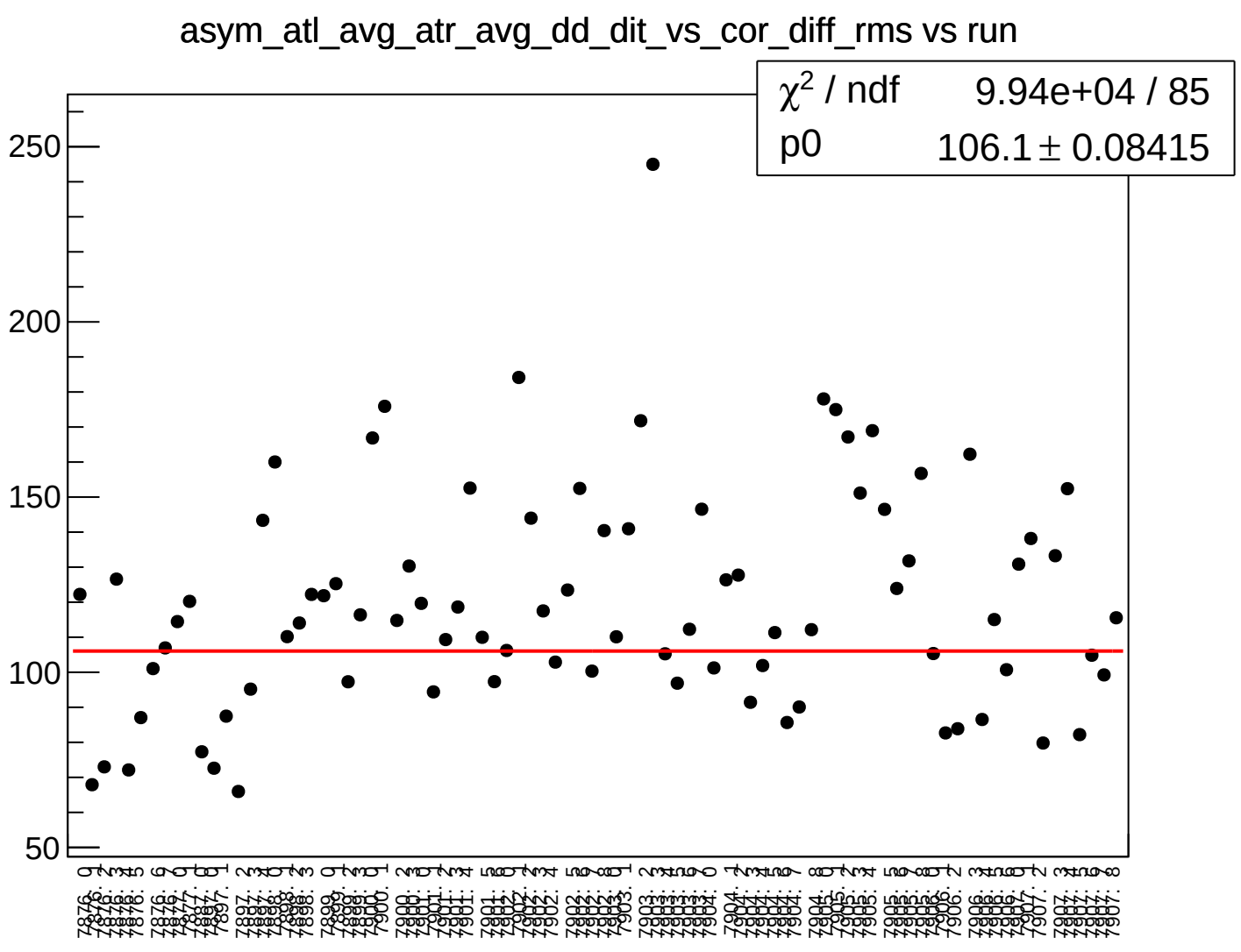

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.349e+06 / 85
p0 7.646e−11 ± 1.313e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

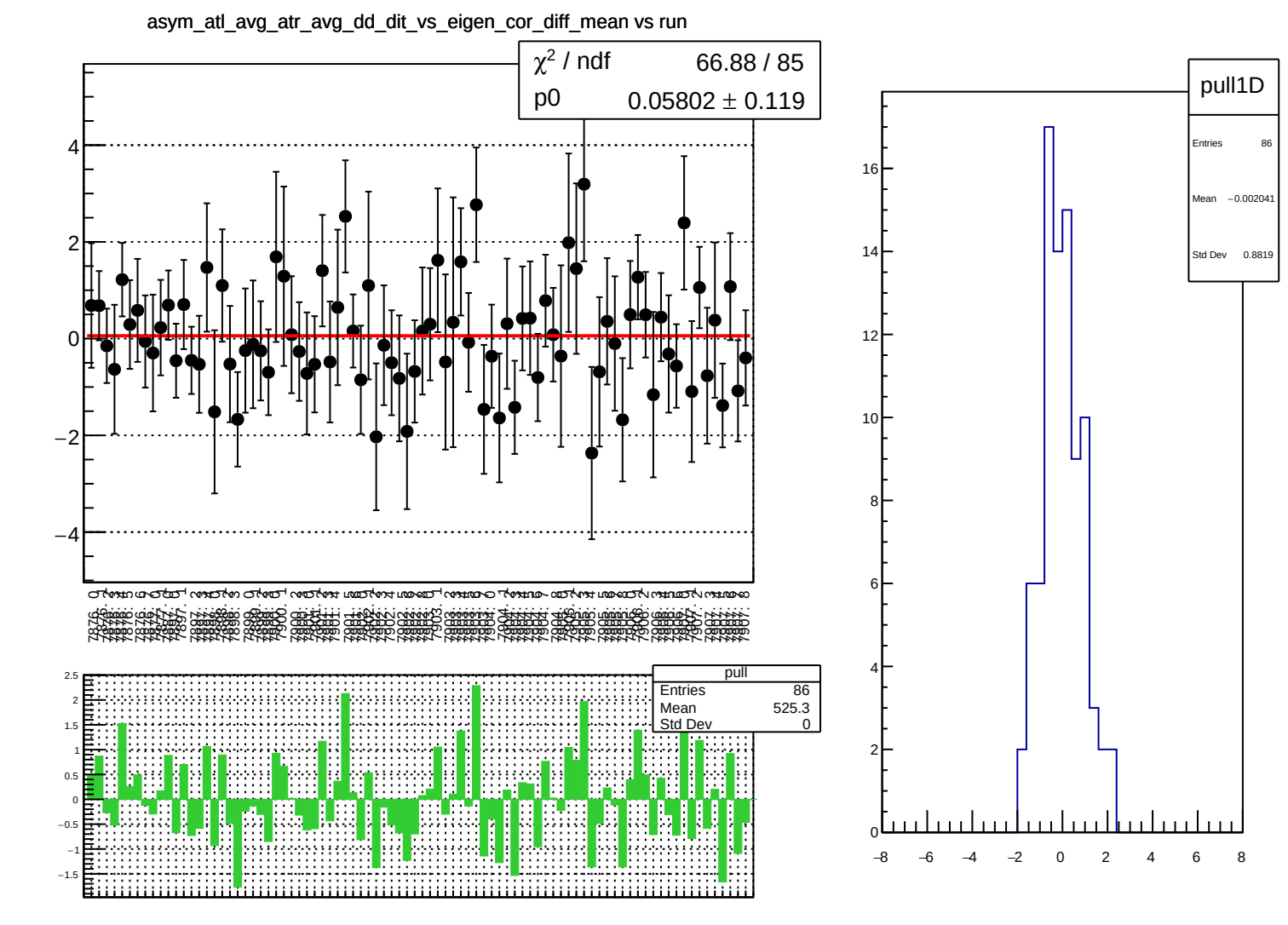
asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run

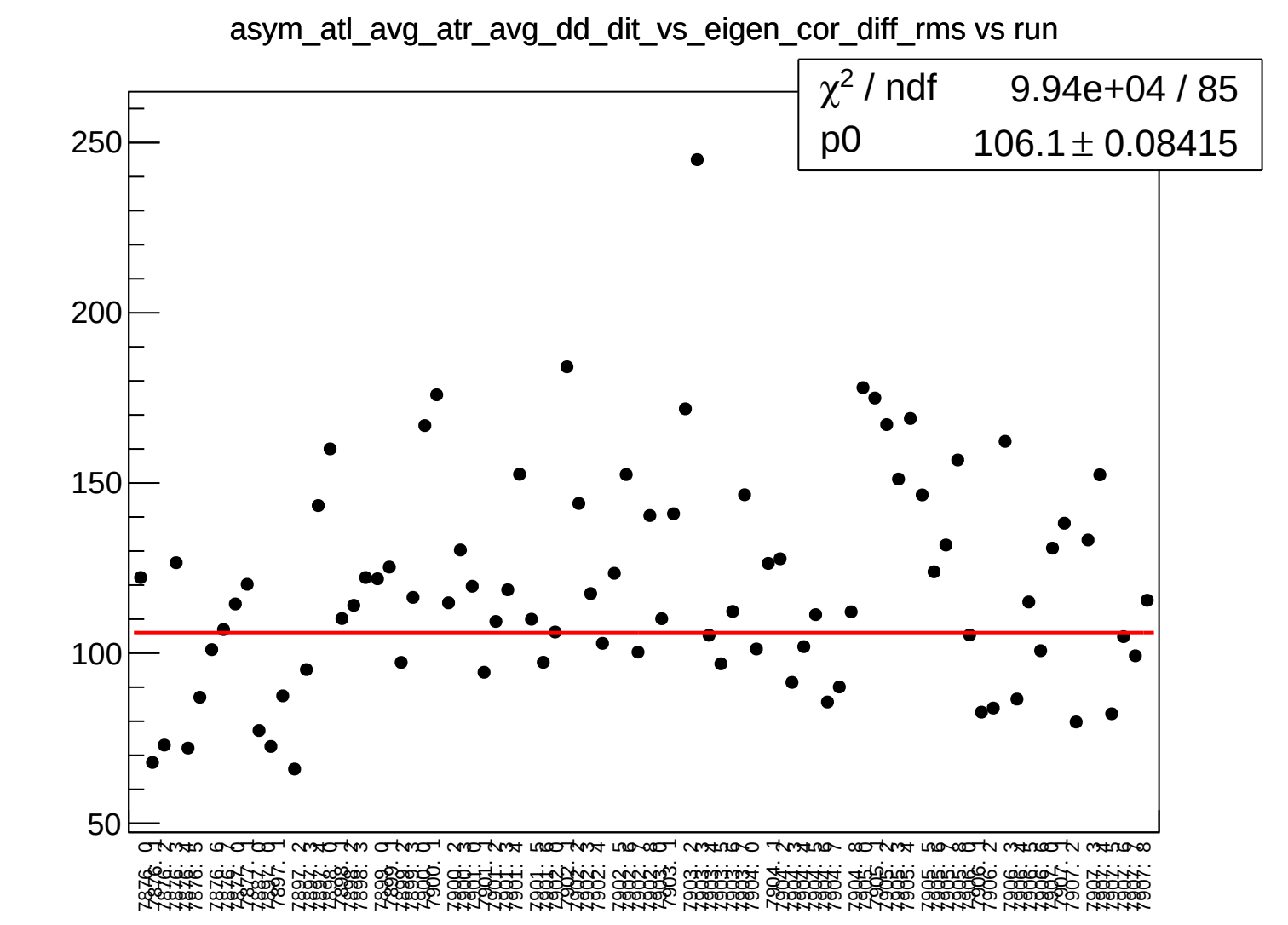


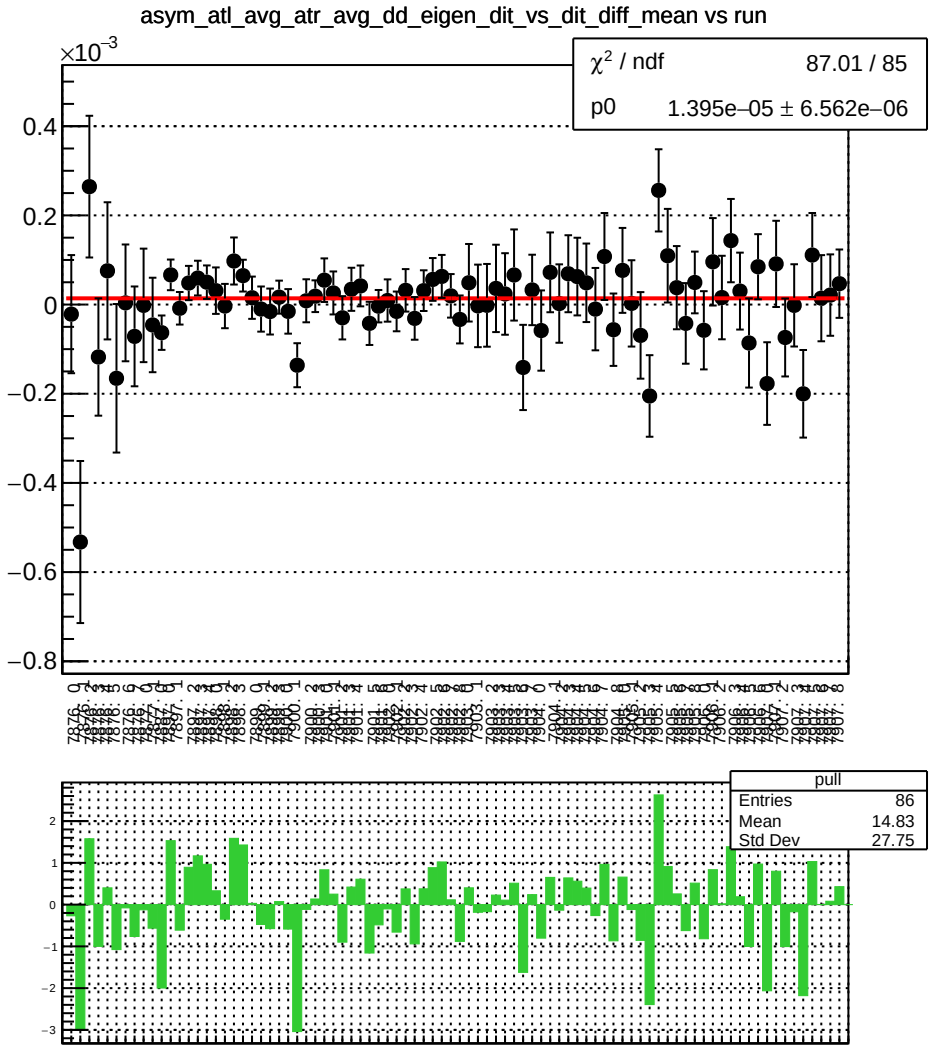


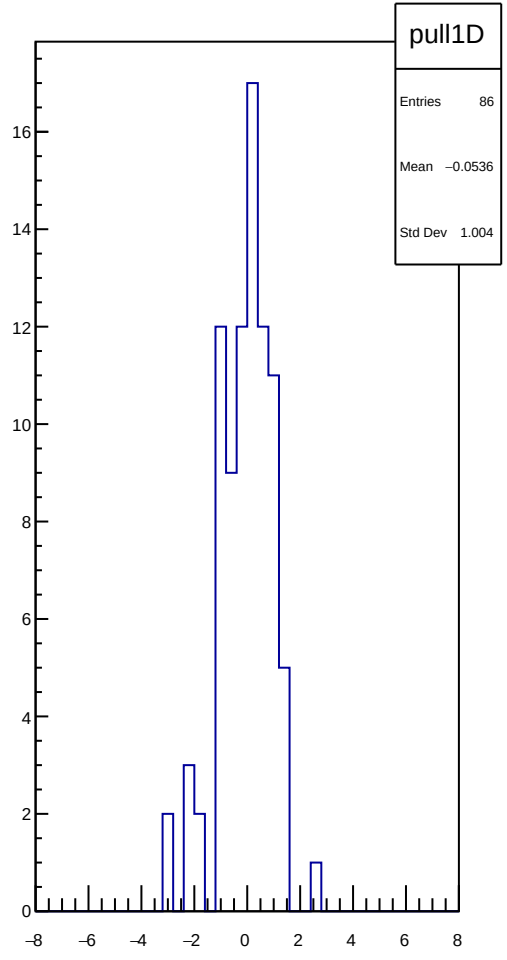


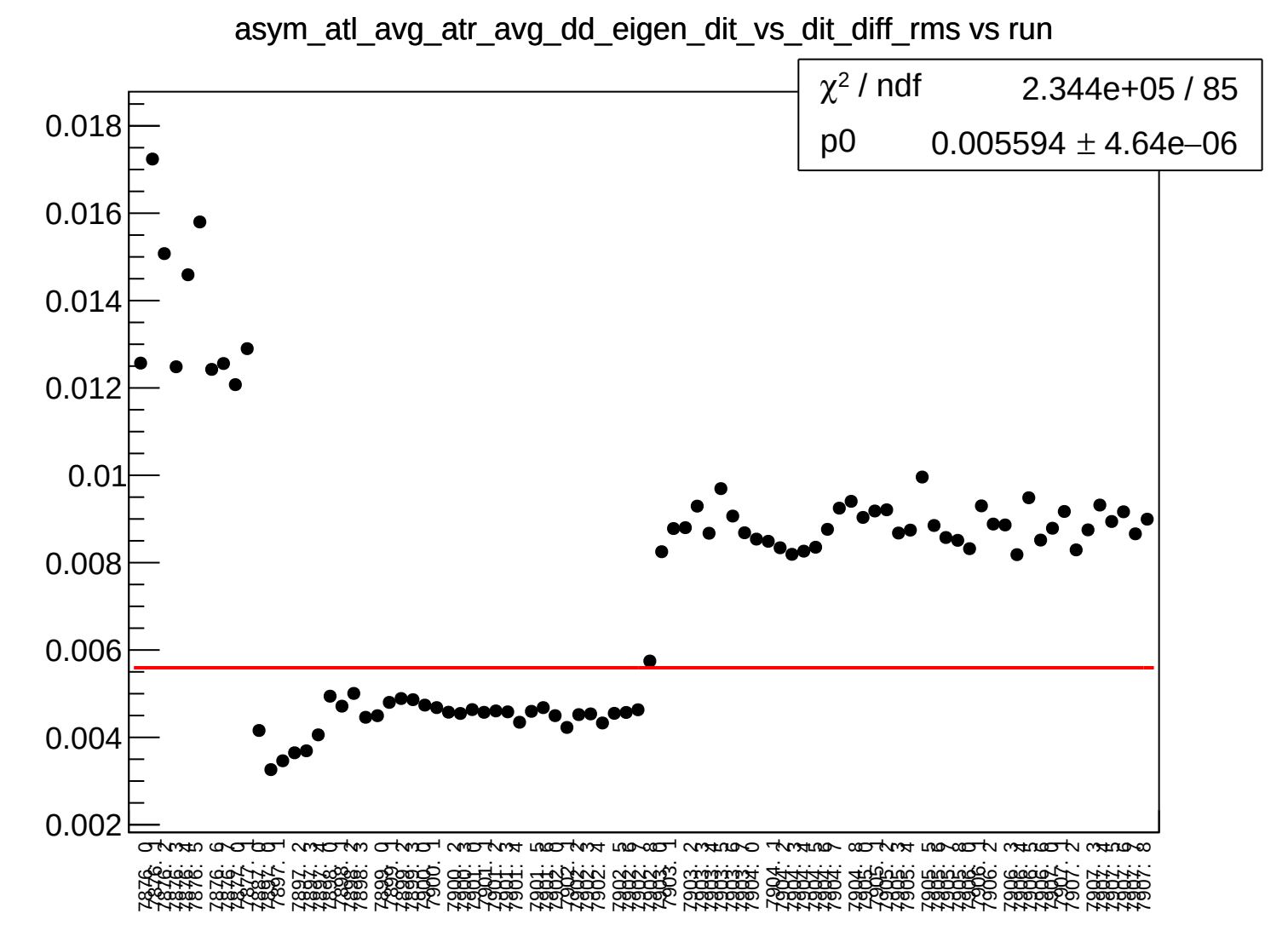

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.94e+04 / 85
p0 106.1 ± 0.08415
250
200
150
100
50

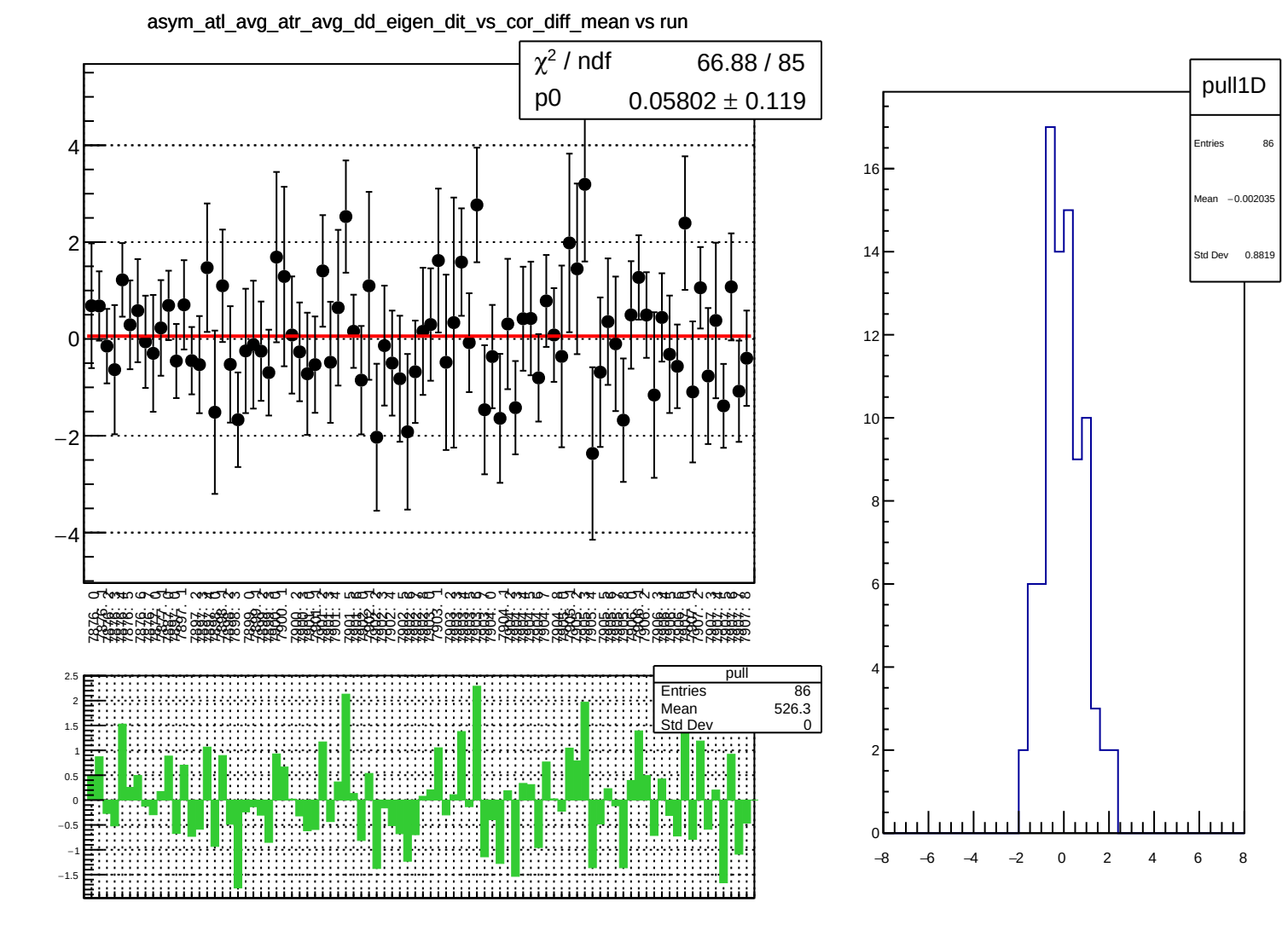

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.88 / 85
p0 0.05802 ± 0.119
pull
Entries 86
Mean 525.3
Std Dev 0
pull1D
Entries 86
Mean −0.002041
Std Dev 0.8819

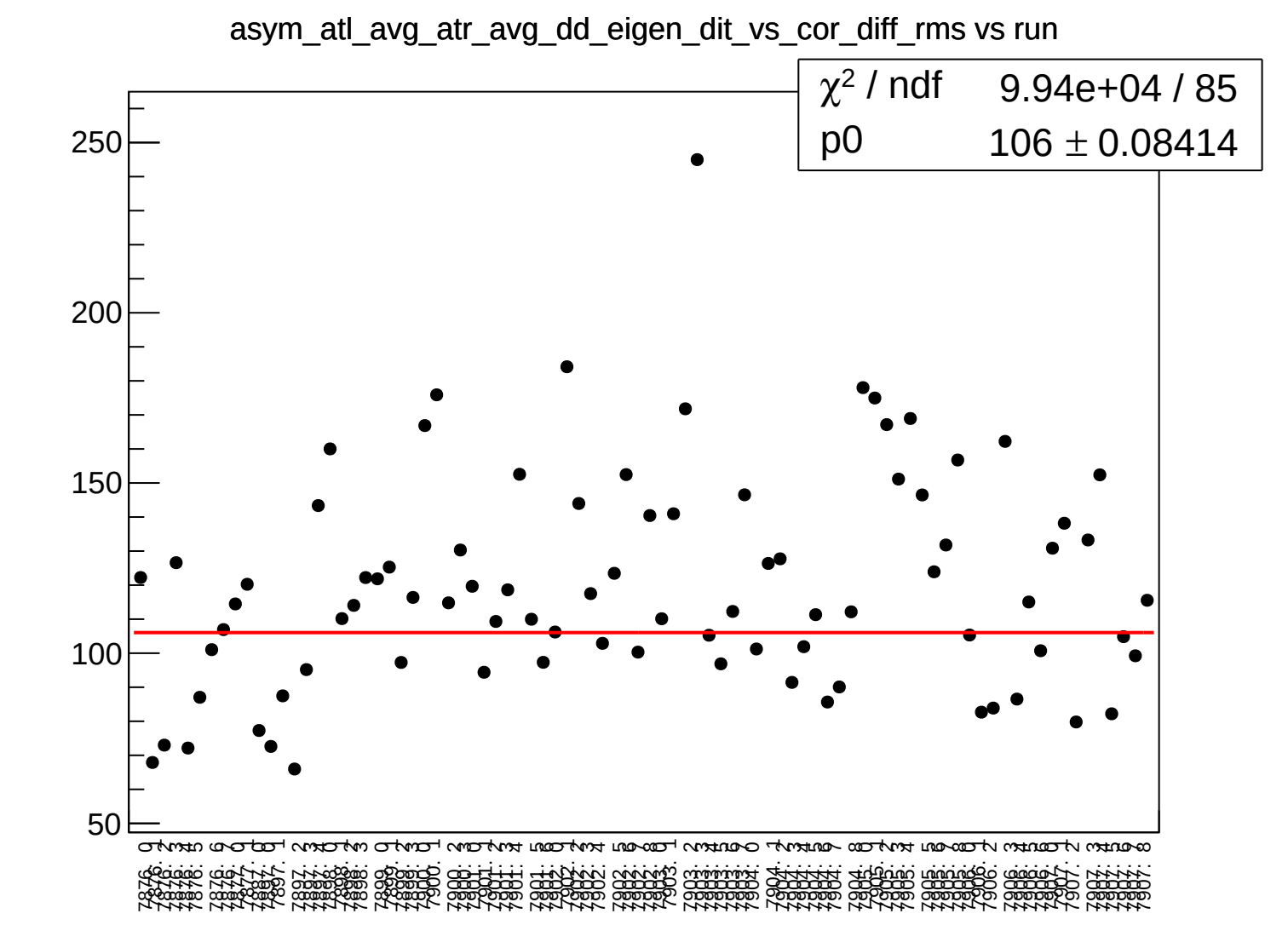

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.94e+04 / 85
p0 106.1 ± 0.08415
250
200
150
100
50

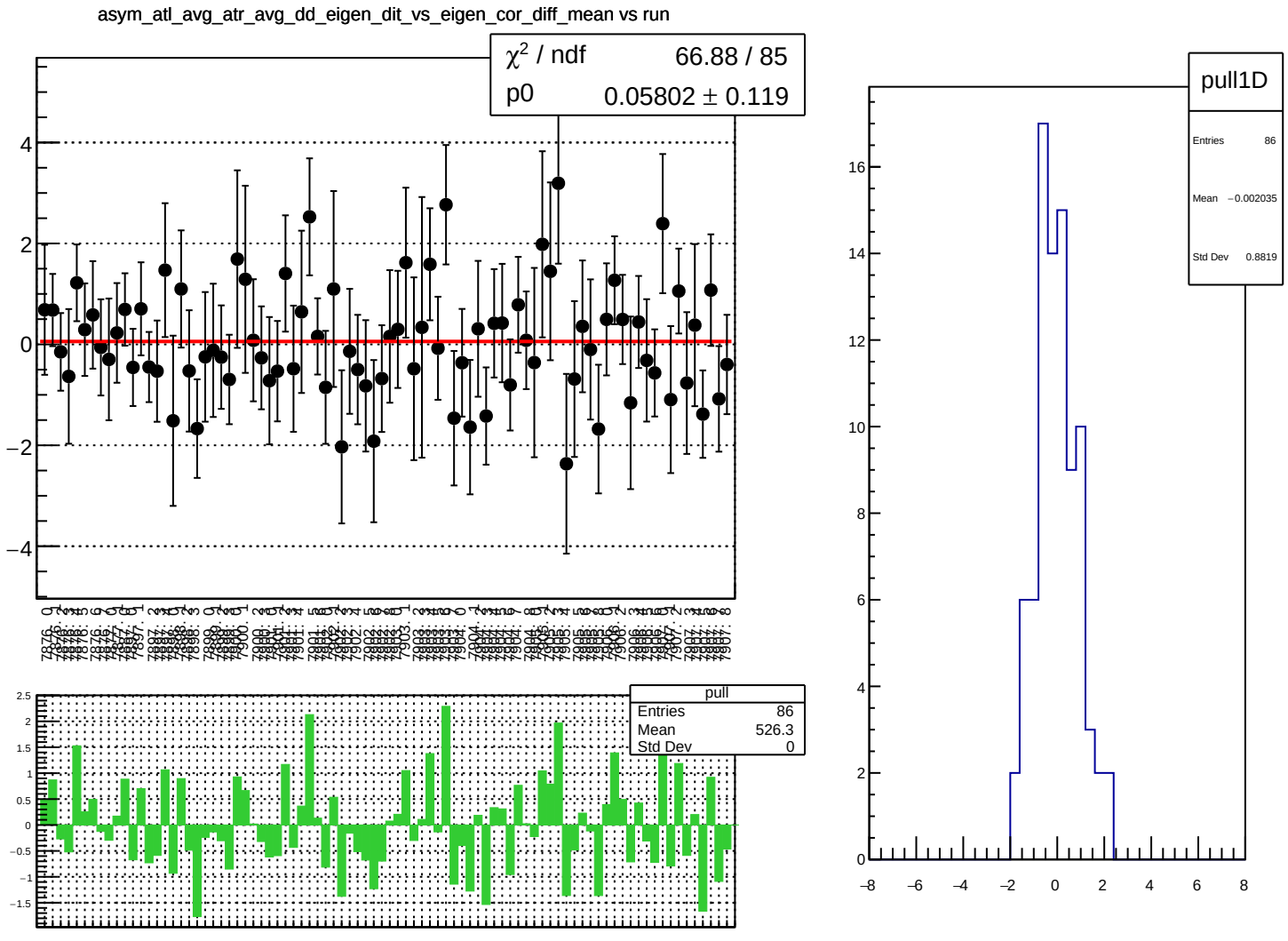

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.01 / 85
p0 1.395e−05 ± 6.562e−06
pull
Entries 86
Mean 14.83
Std Dev 27.75

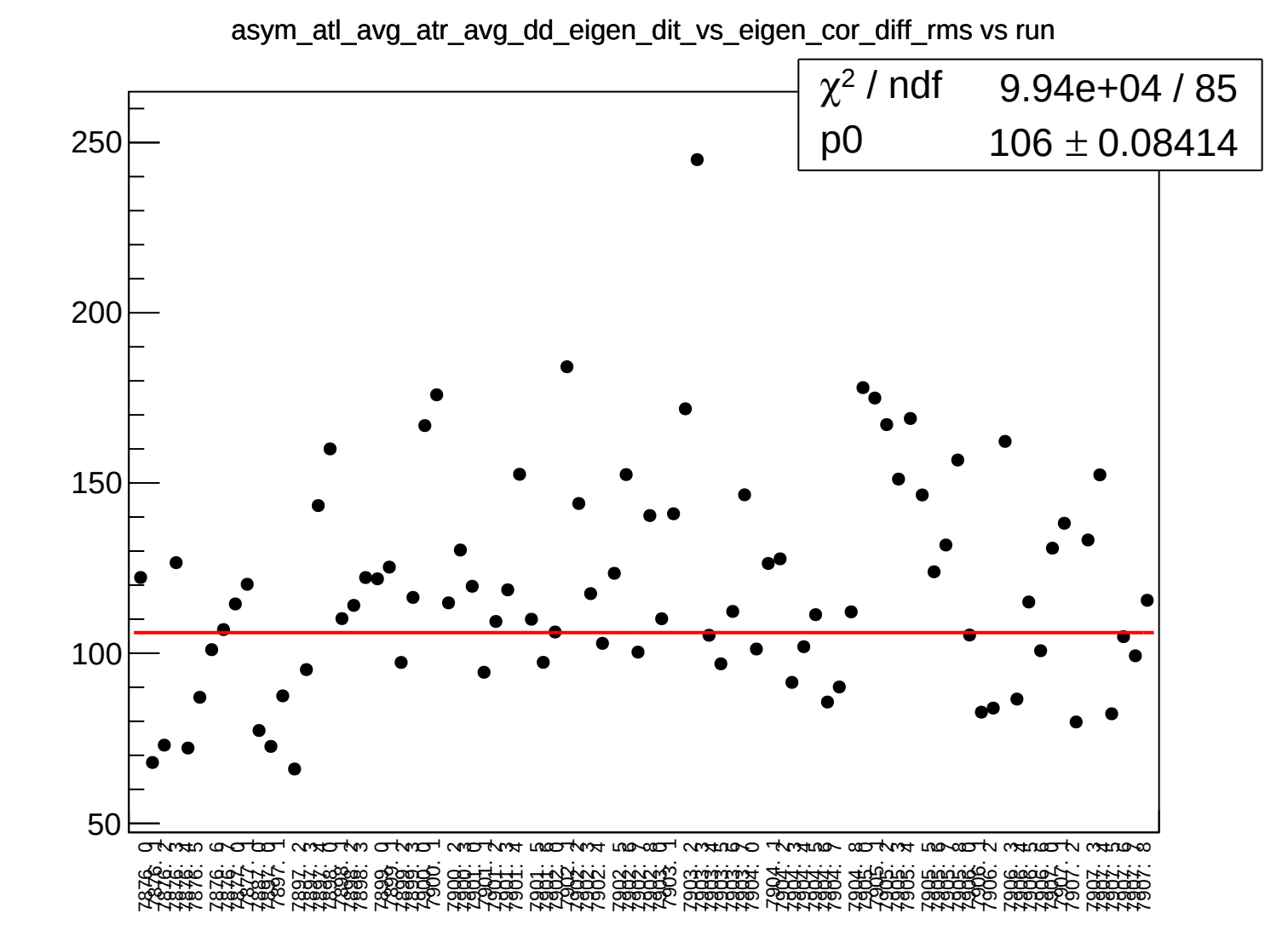

pull1D
Entries 86
Mean −0.0536
Std Dev 1.004

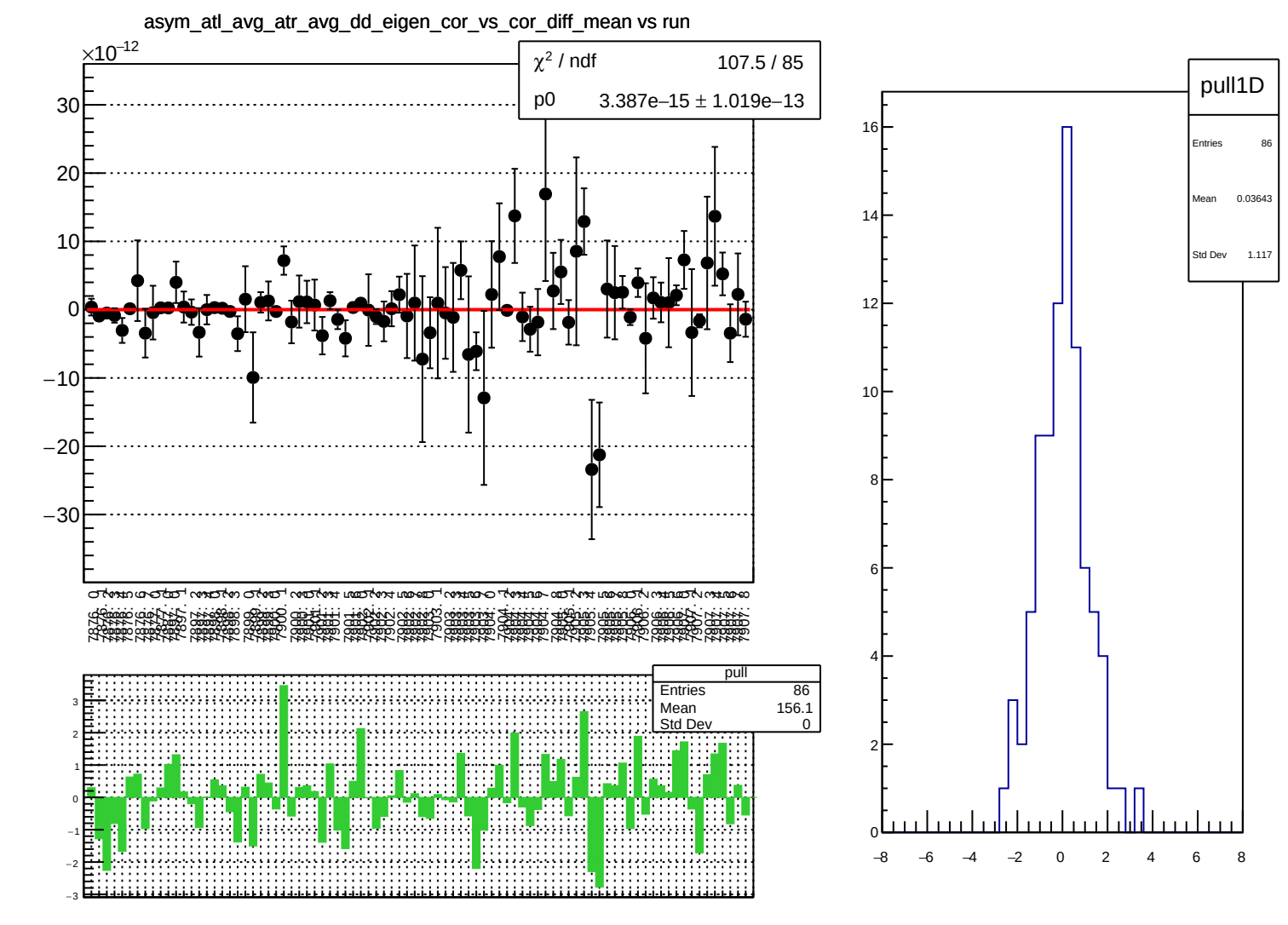

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.344e+05 / 85
p0 0.005594 ± 4.64e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

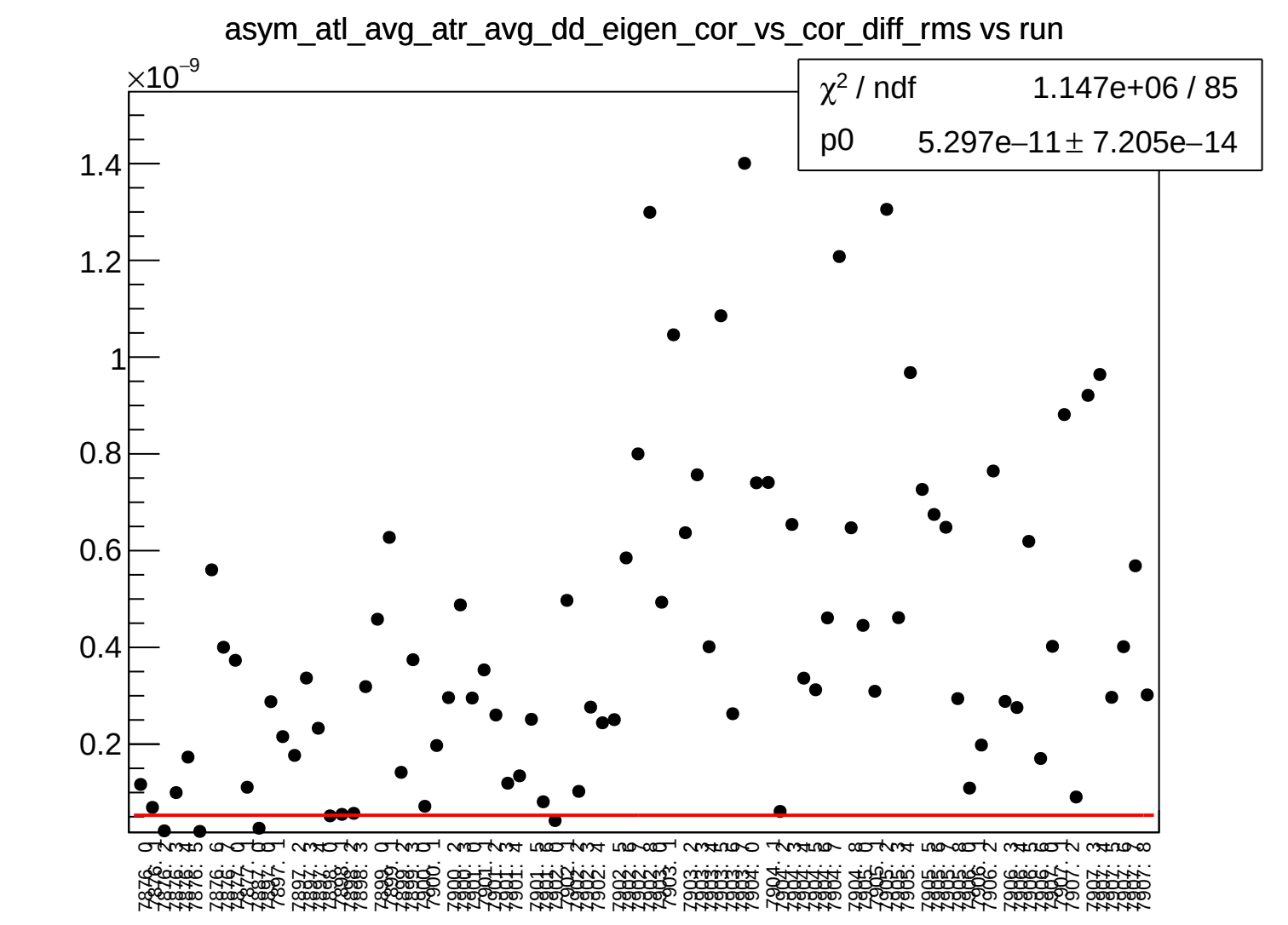

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.88 / 85
p0 0.05802 ± 0.119
pull
Entries 86
Mean 526.3
Std Dev 0
pull1D
Entries 86
Mean −0.002035
Std Dev 0.8819

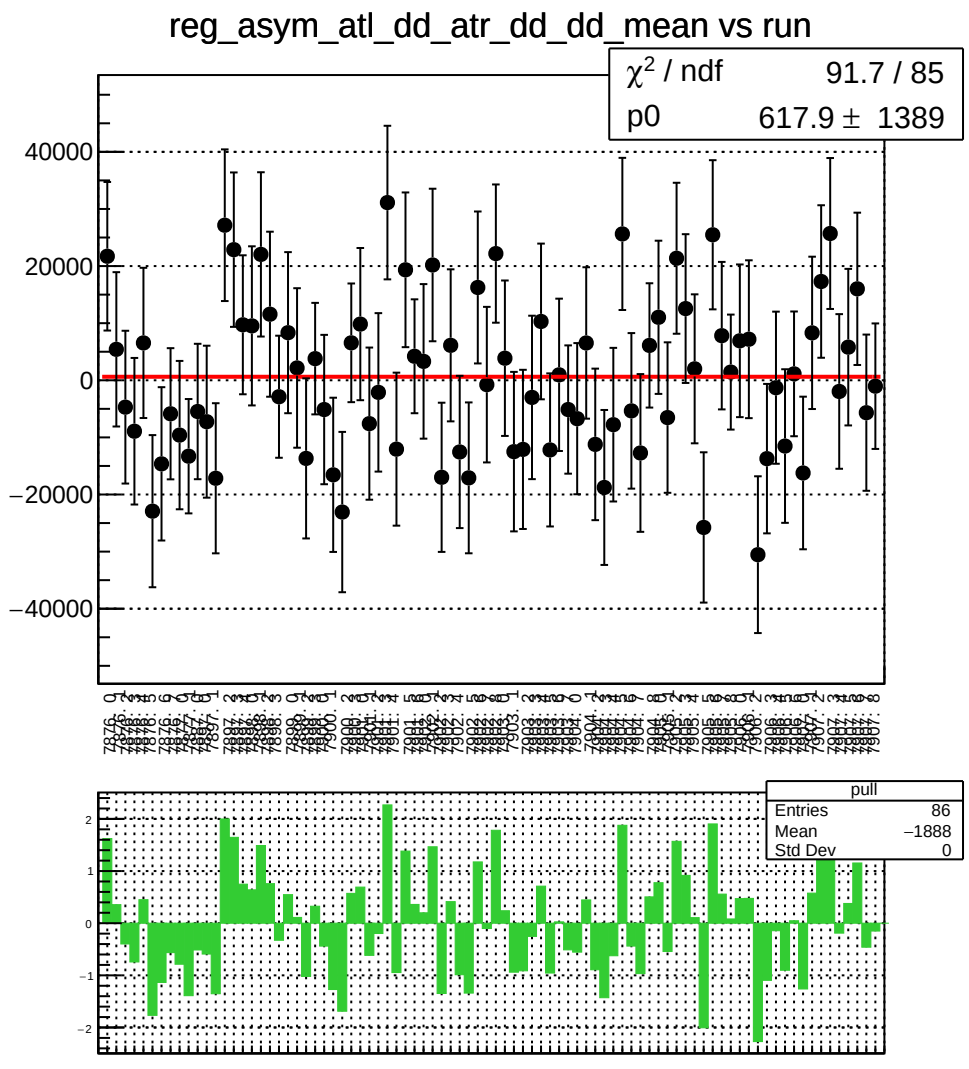

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.94e+04 / 85
p0 106 ± 0.08414
250
200
150
100
50

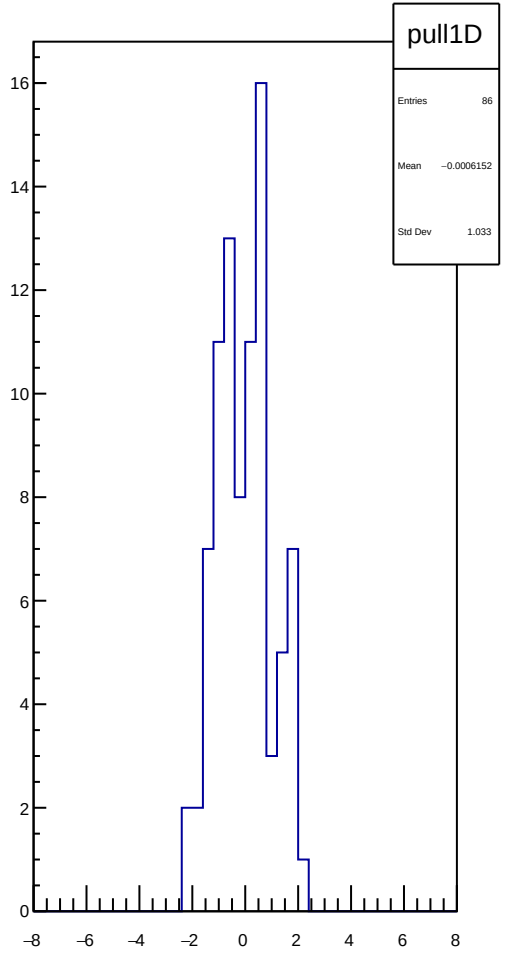

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.88 / 85
p0 0.05802 ± 0.119
pull
Entries 86
Mean 526.3
Std Dev 0
pull1D
Entries 86
Mean −0.002035
Std Dev 0.8819

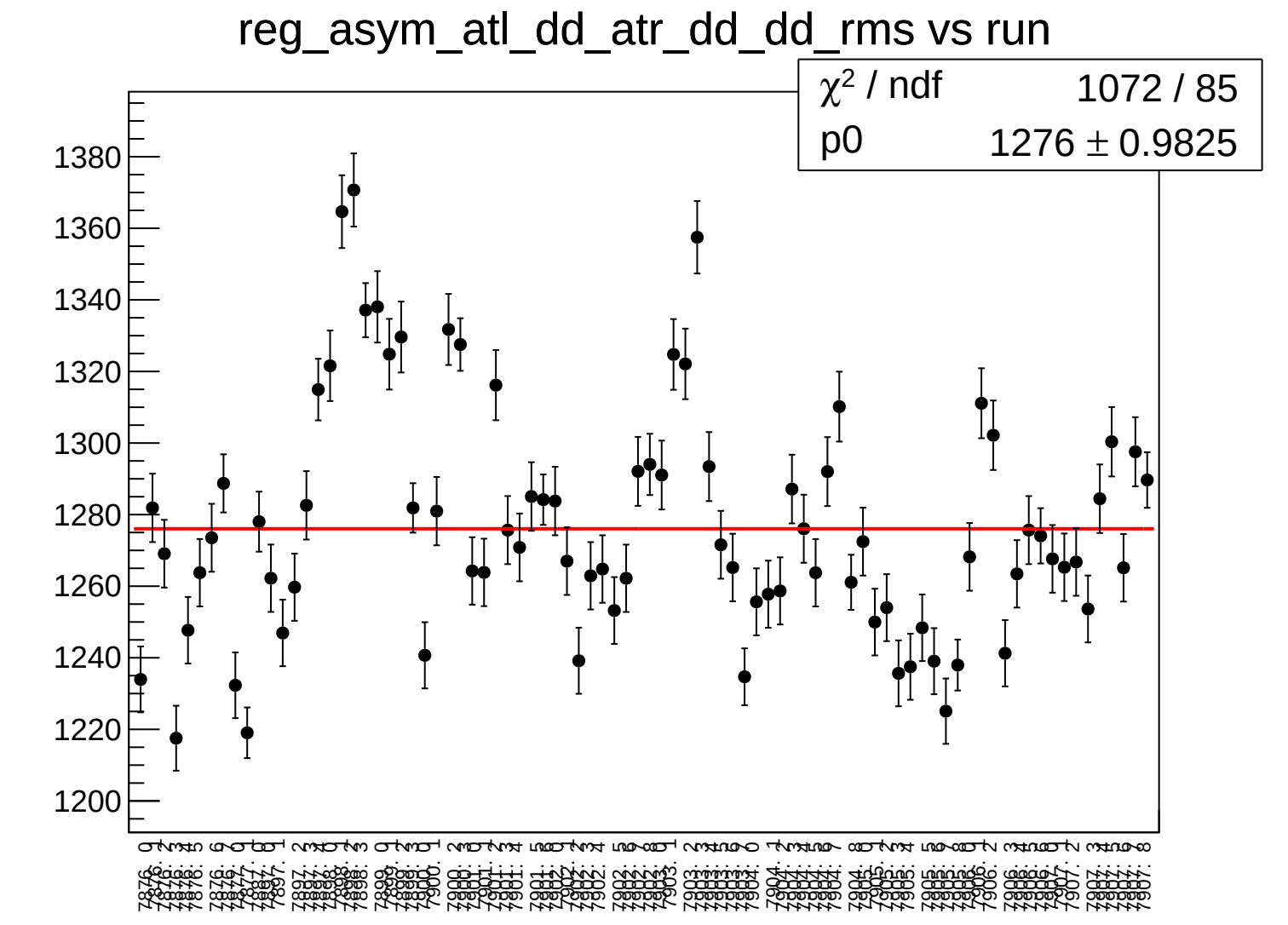

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.94e+04 / 85
p0 106 ± 0.08414
250
200
150
100
50

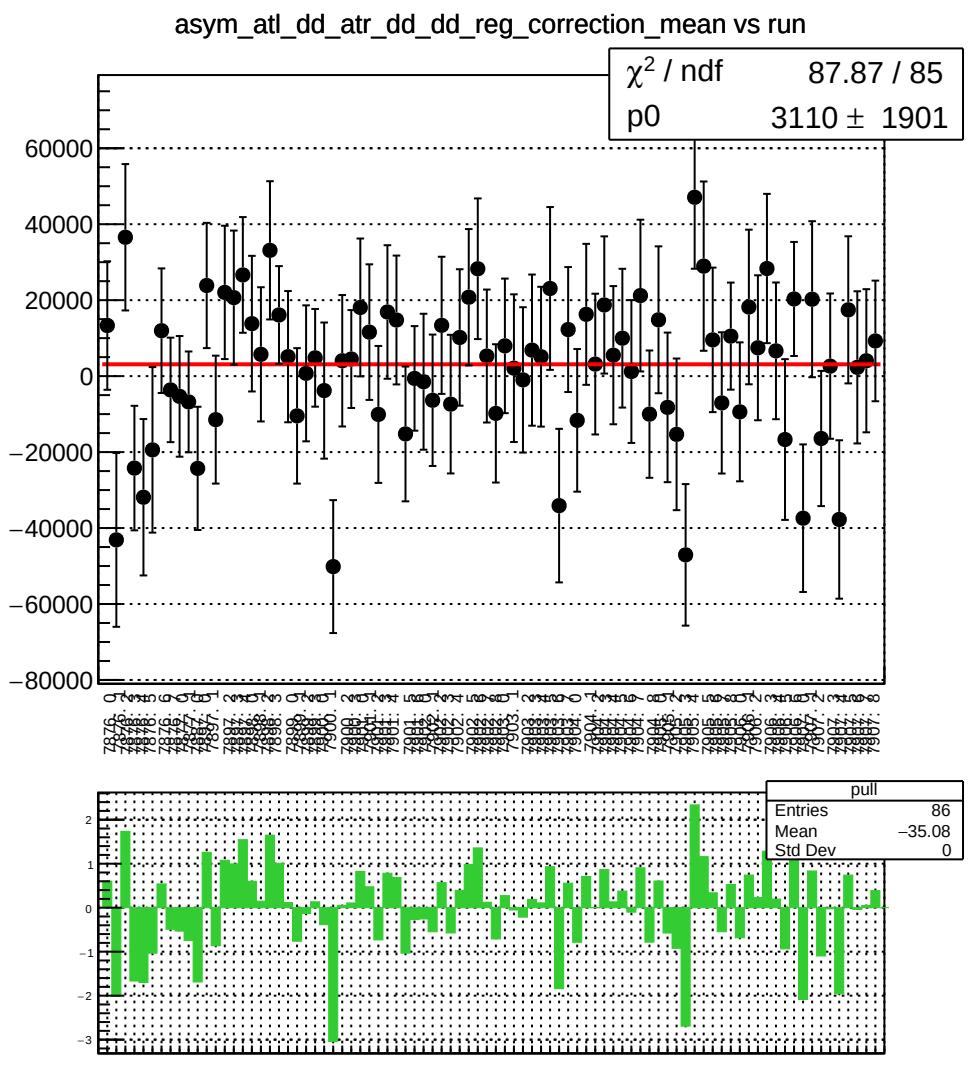

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 107.5 / 85
p0 3.387e−15 ± 1.019e−13
pull
Entries 86
Mean 156.1
Std Dev 0
pull1D
Entries 86
Mean 0.03643
Std Dev 1.117

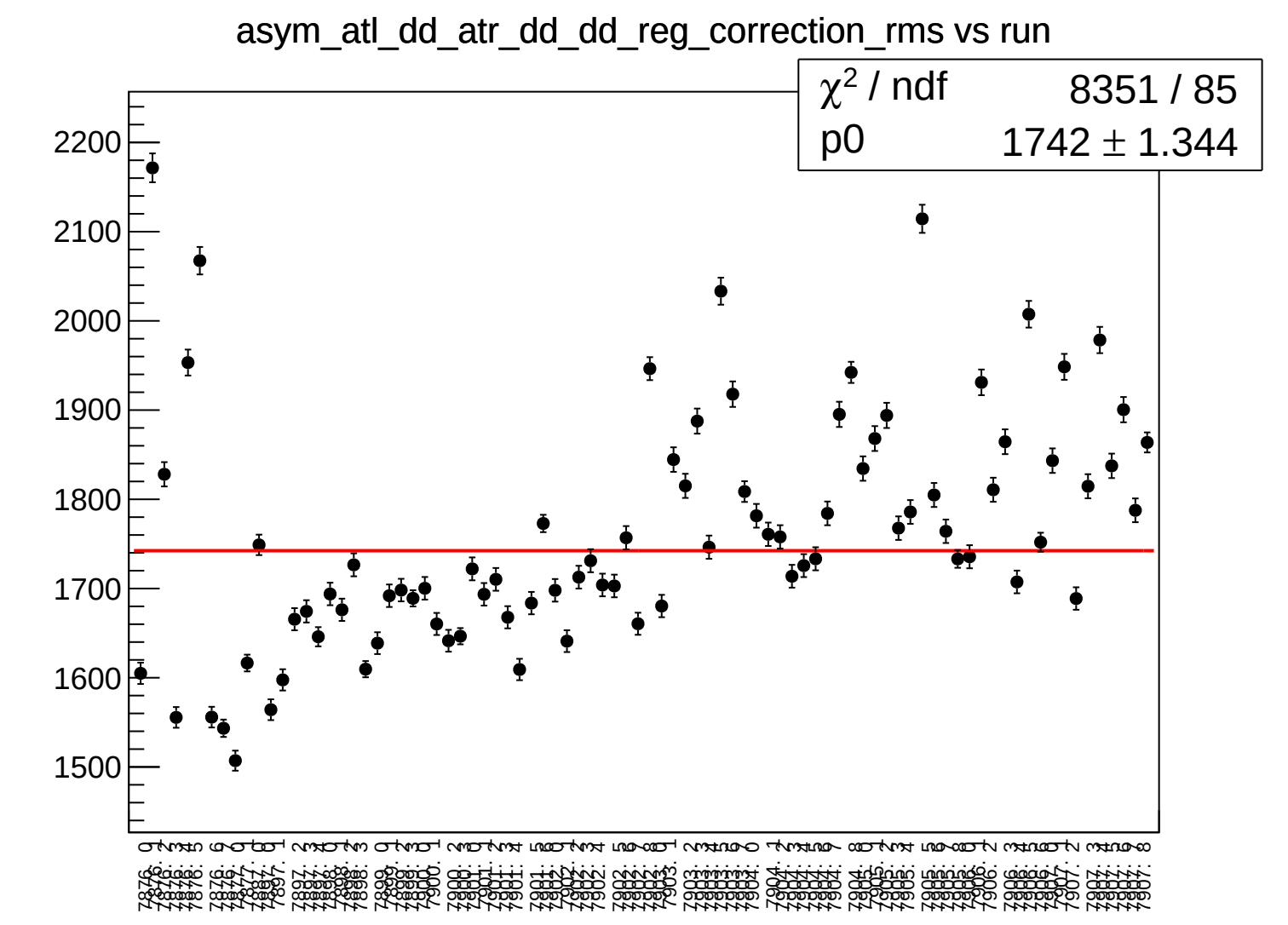

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.147e+06 / 85
p0 5.297e−11 ± 7.205e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

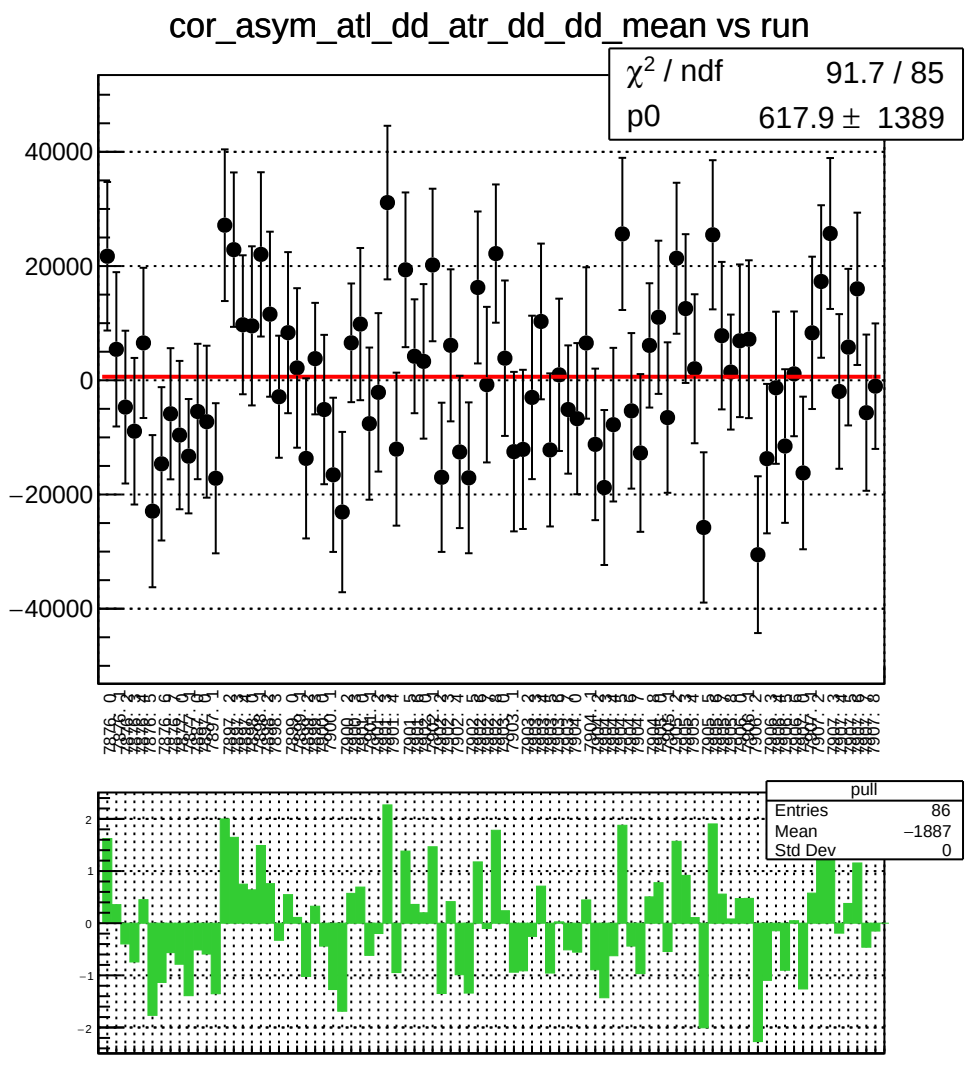

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.7 / 85
p0 617.9 ± 1389
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1888
Std Dev 0
2
1
0
−1
−2

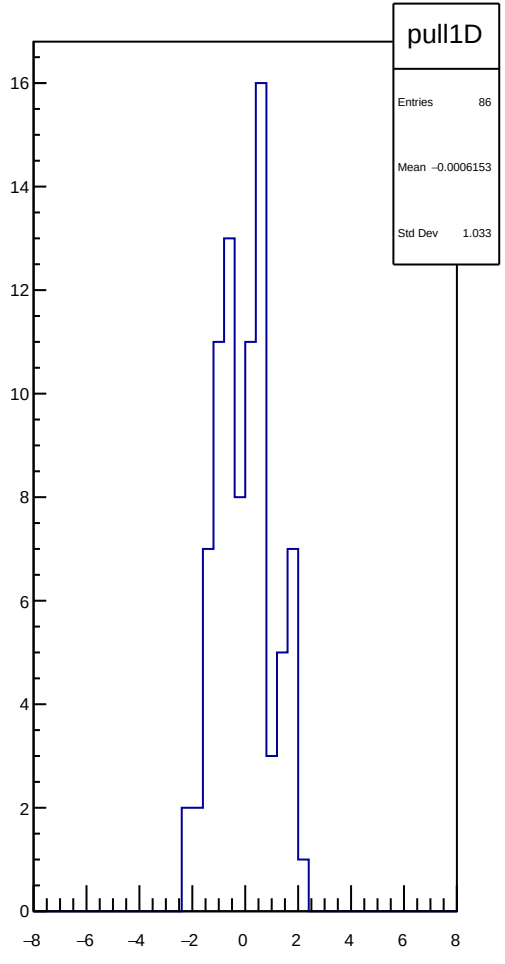

pull1D
Entries 86
Mean −0.0006152
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

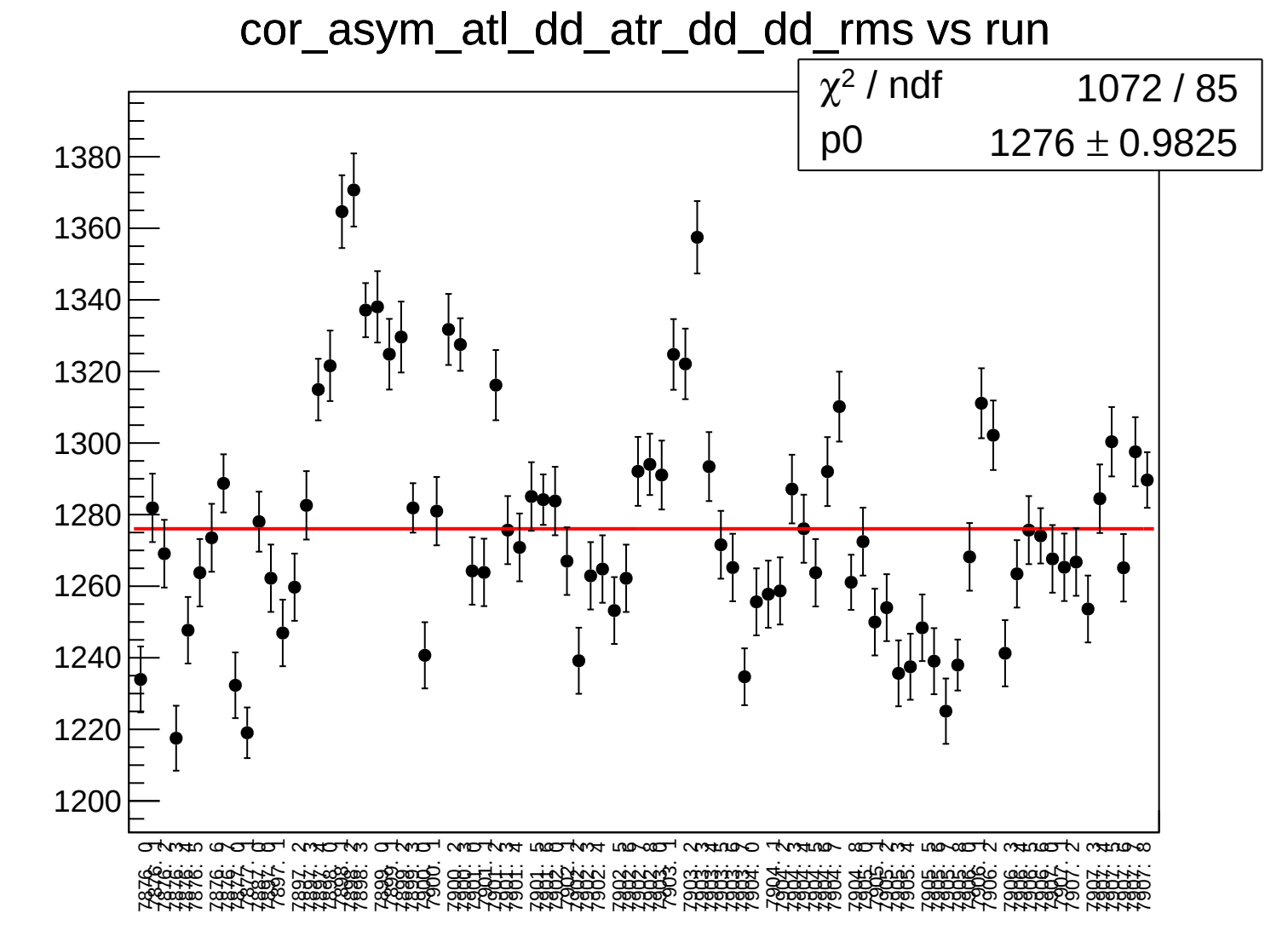

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1072 / 85
p0 1276 ± 0.9825
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

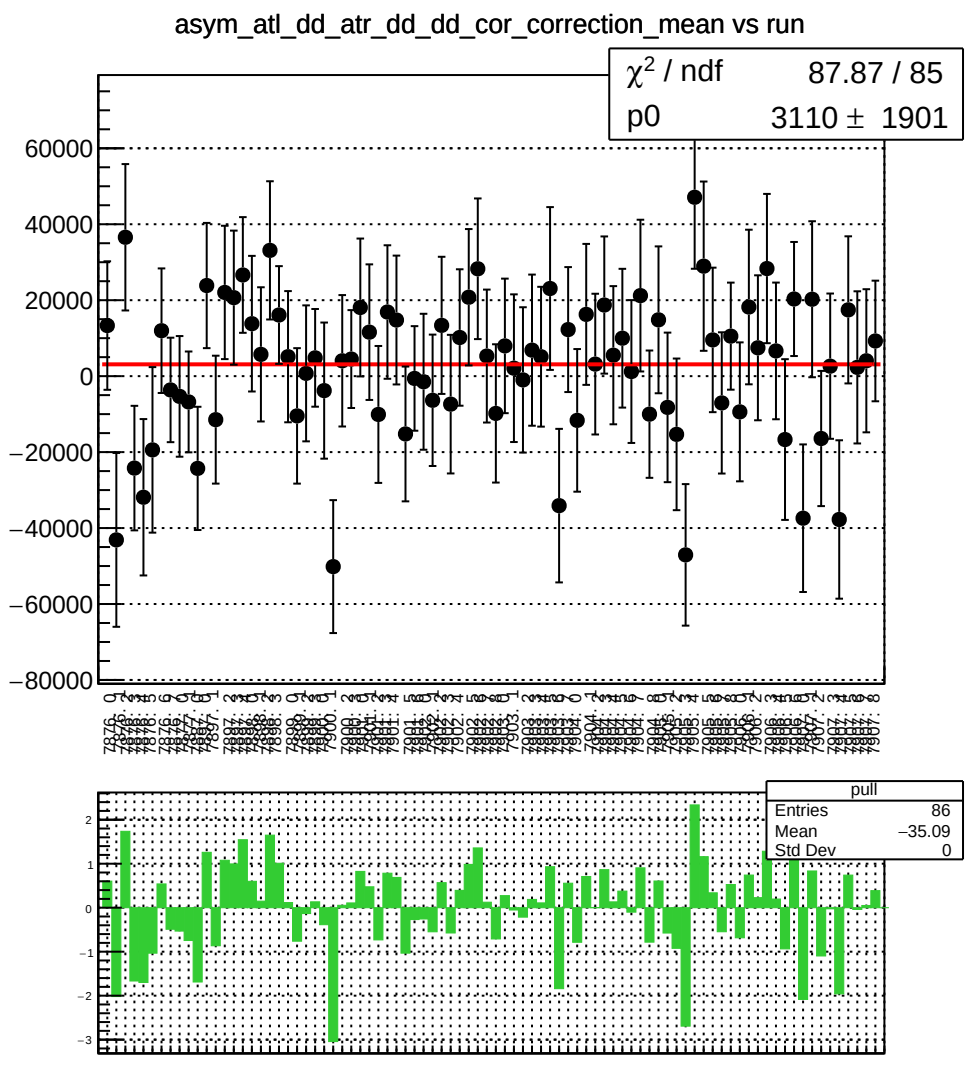

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 87.87 / 85
p0 3110 ± 1901
pull
Entries 86
Mean −35.08
Std Dev 0
pull1D
Entries 86
Mean −0.01308
Std Dev 1.011

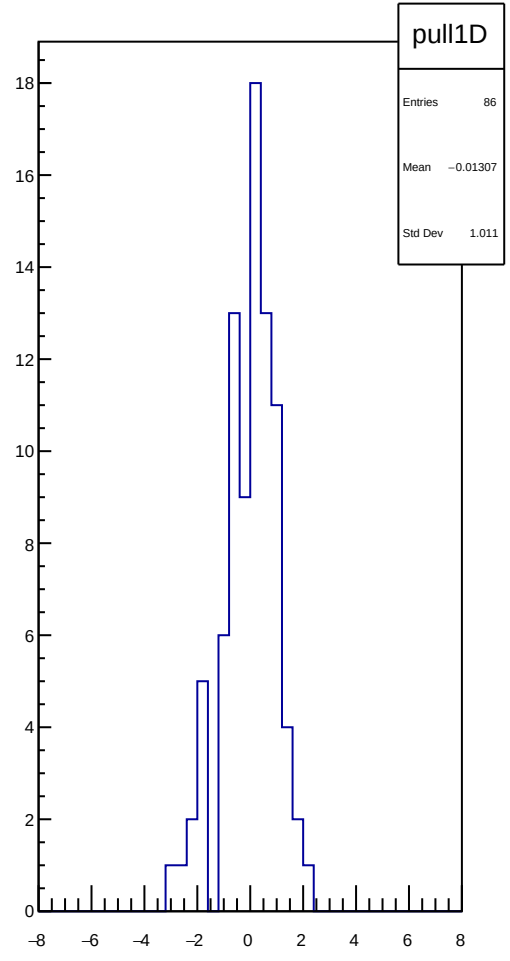

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 8351 / 85
p0 1742 ± 1.344
2200
2100
2000
1900
1800
1700
1600
1500

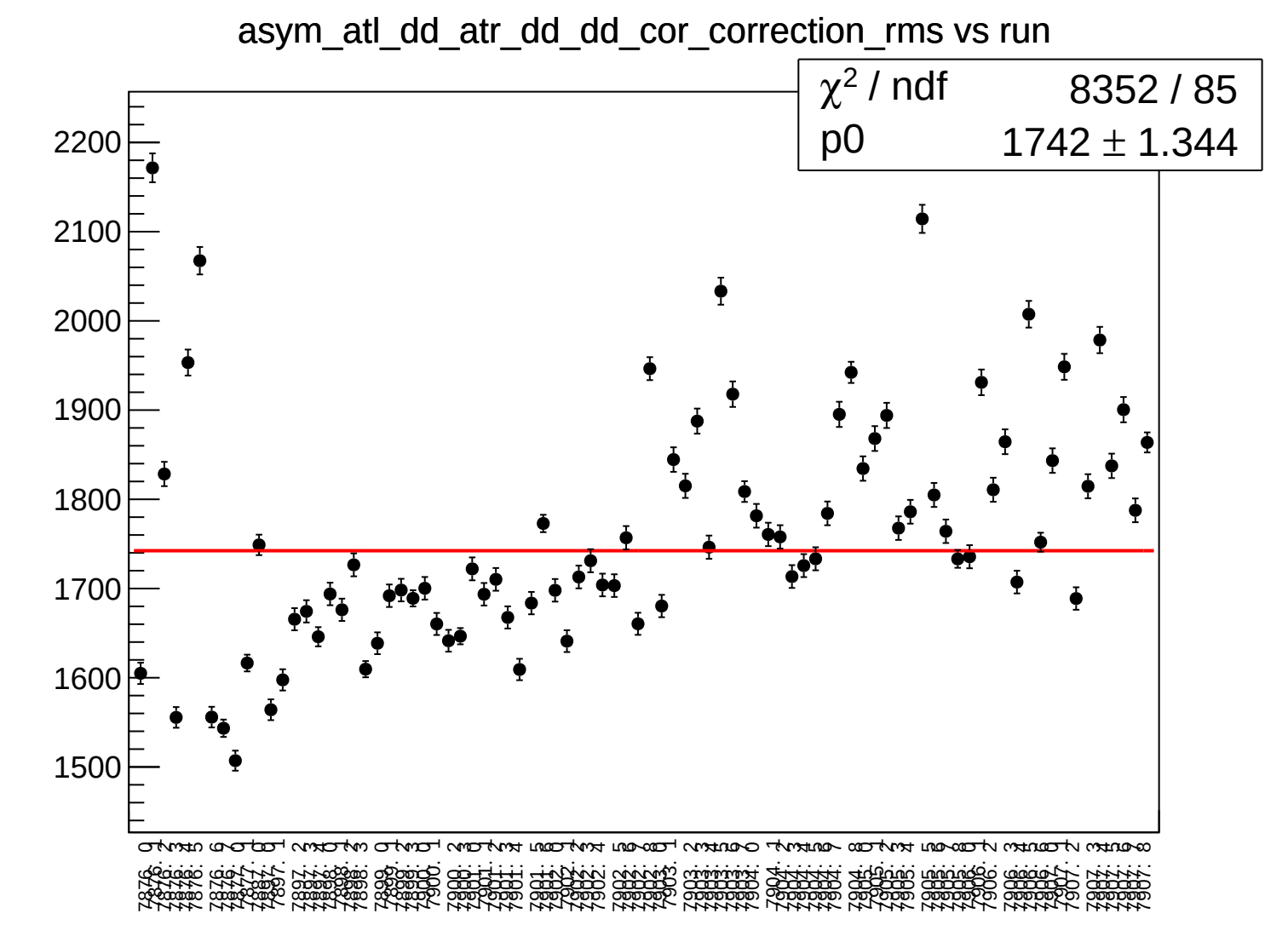

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.7 / 85
p0 617.9 ± 1389
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1887
Std Dev 0
2
1
0
−1
−2

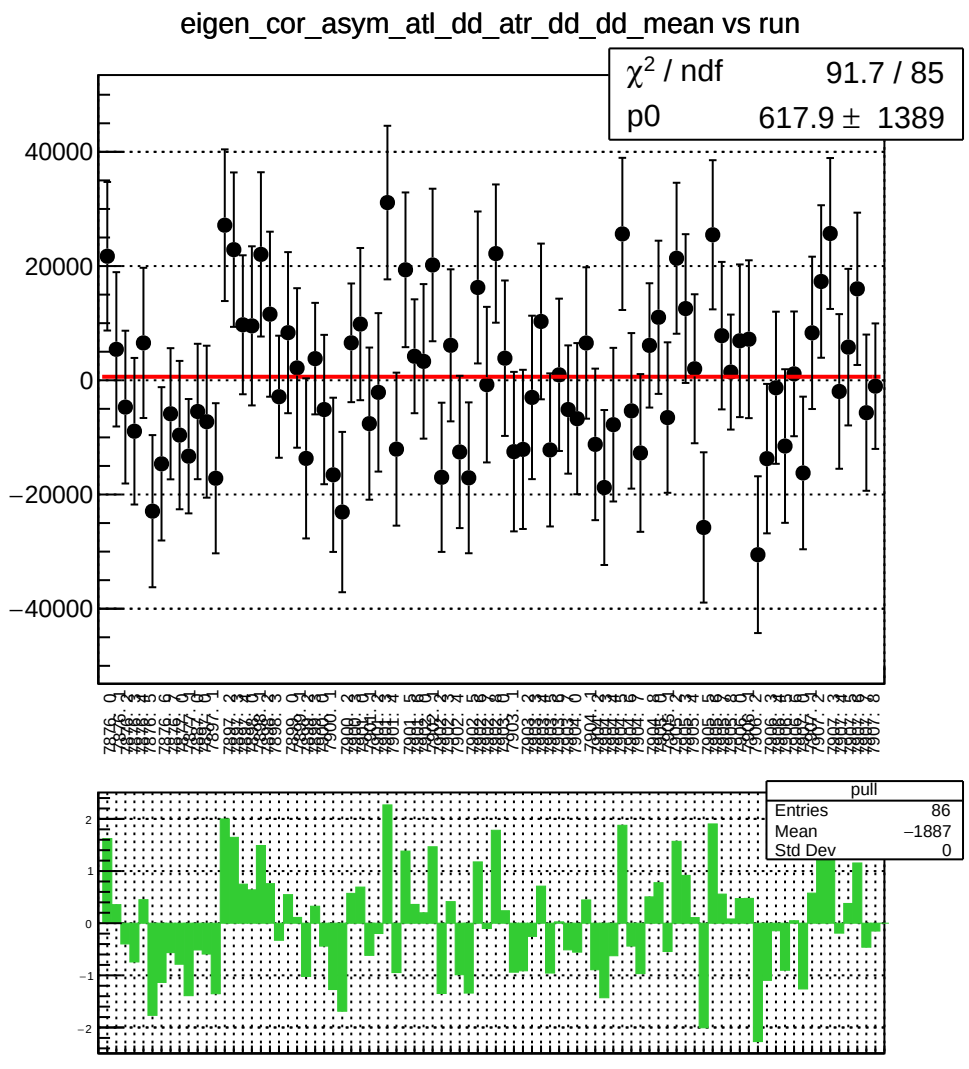

pull1D
Entries 86
Mean −0.0006153
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

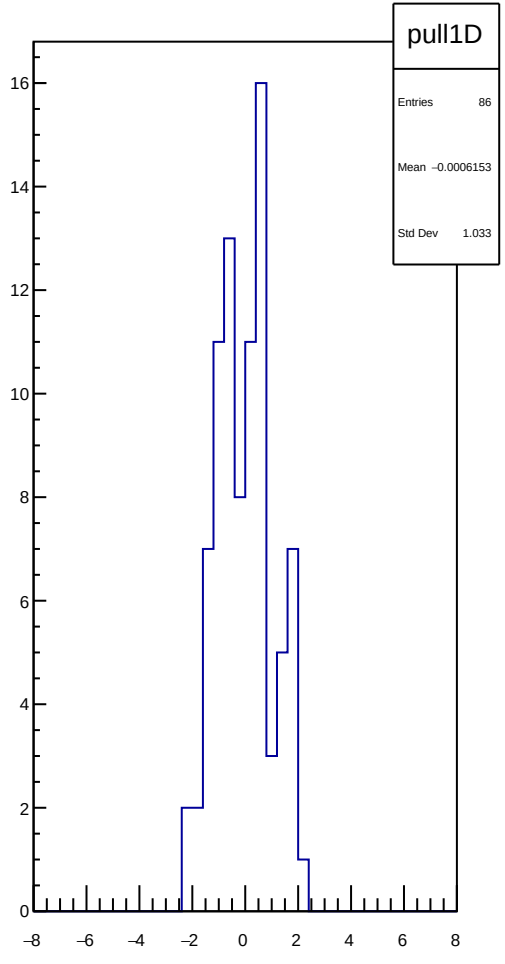

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1072 / 85
p0 1276 ± 0.9825
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

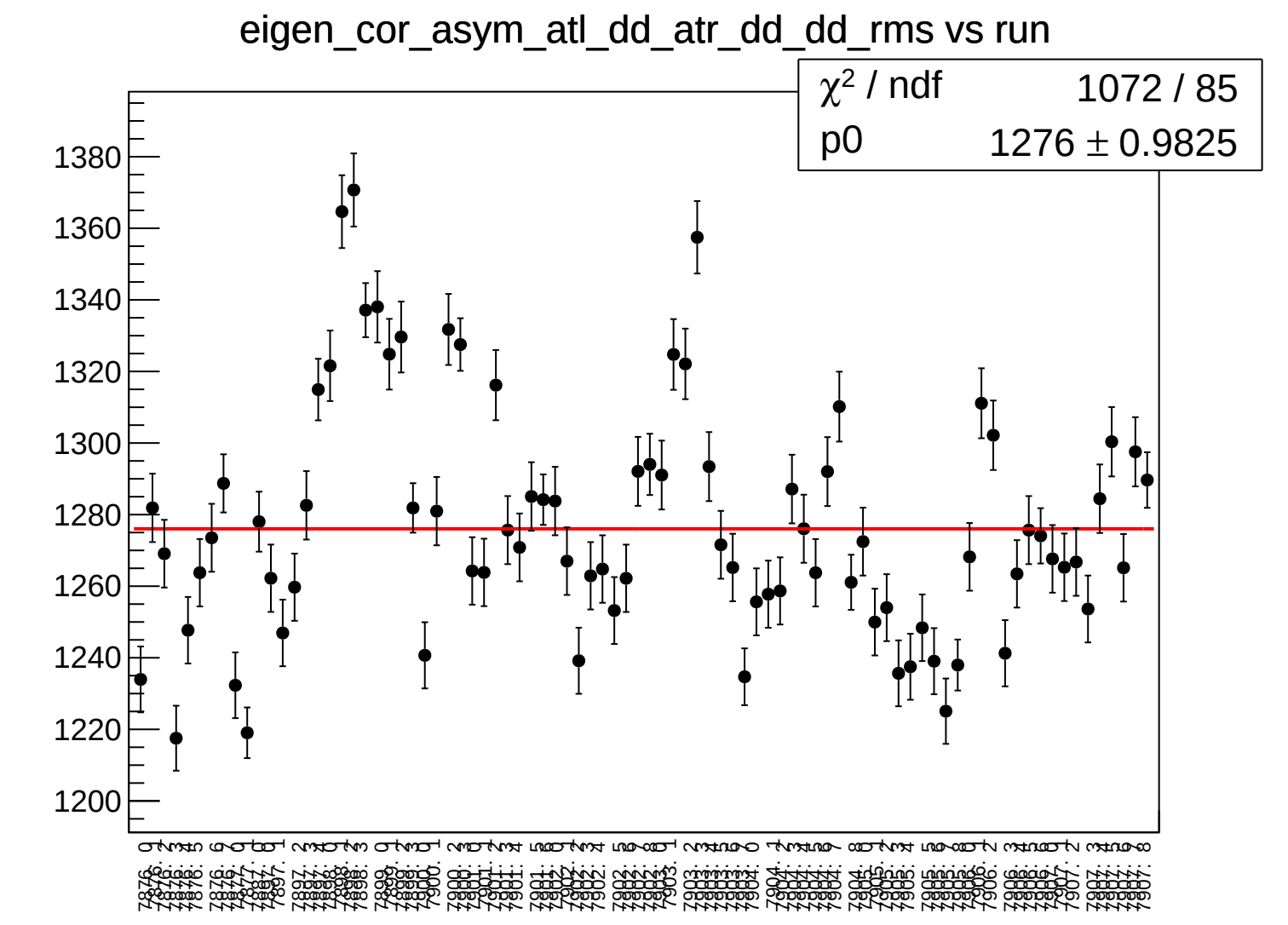

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 87.87 / 85
p0 3110 ± 1901
pull
Entries 86
Mean −35.09
Std Dev 0

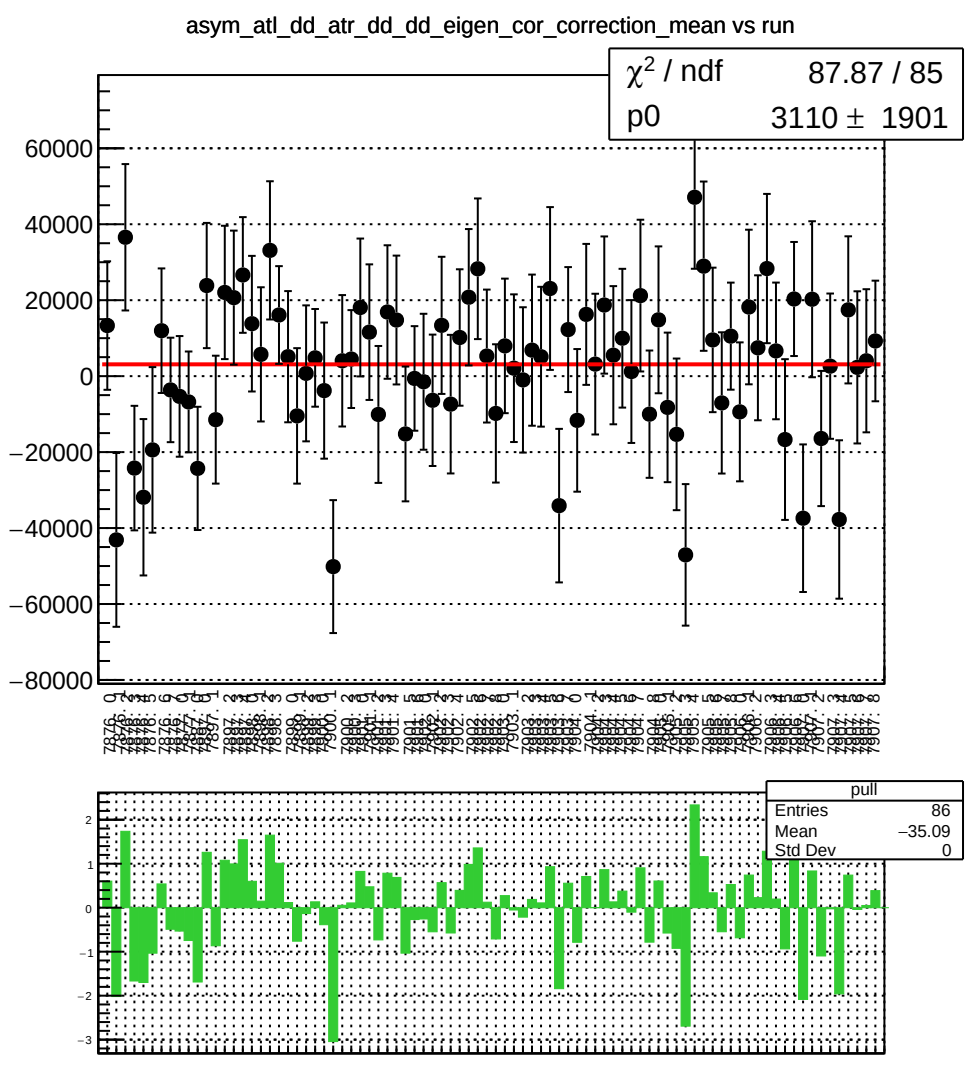

pull1D
Entries 86
Mean −0.01307
Std Dev 1.011

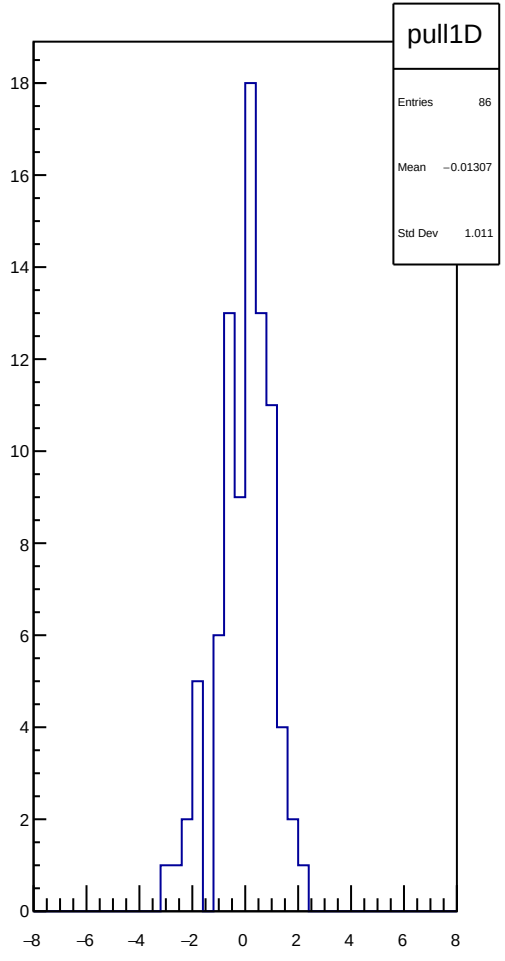

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 8352 / 85
p0 1742 ± 1.344
2200
2100
2000
1900
1800
1700
1600
1500

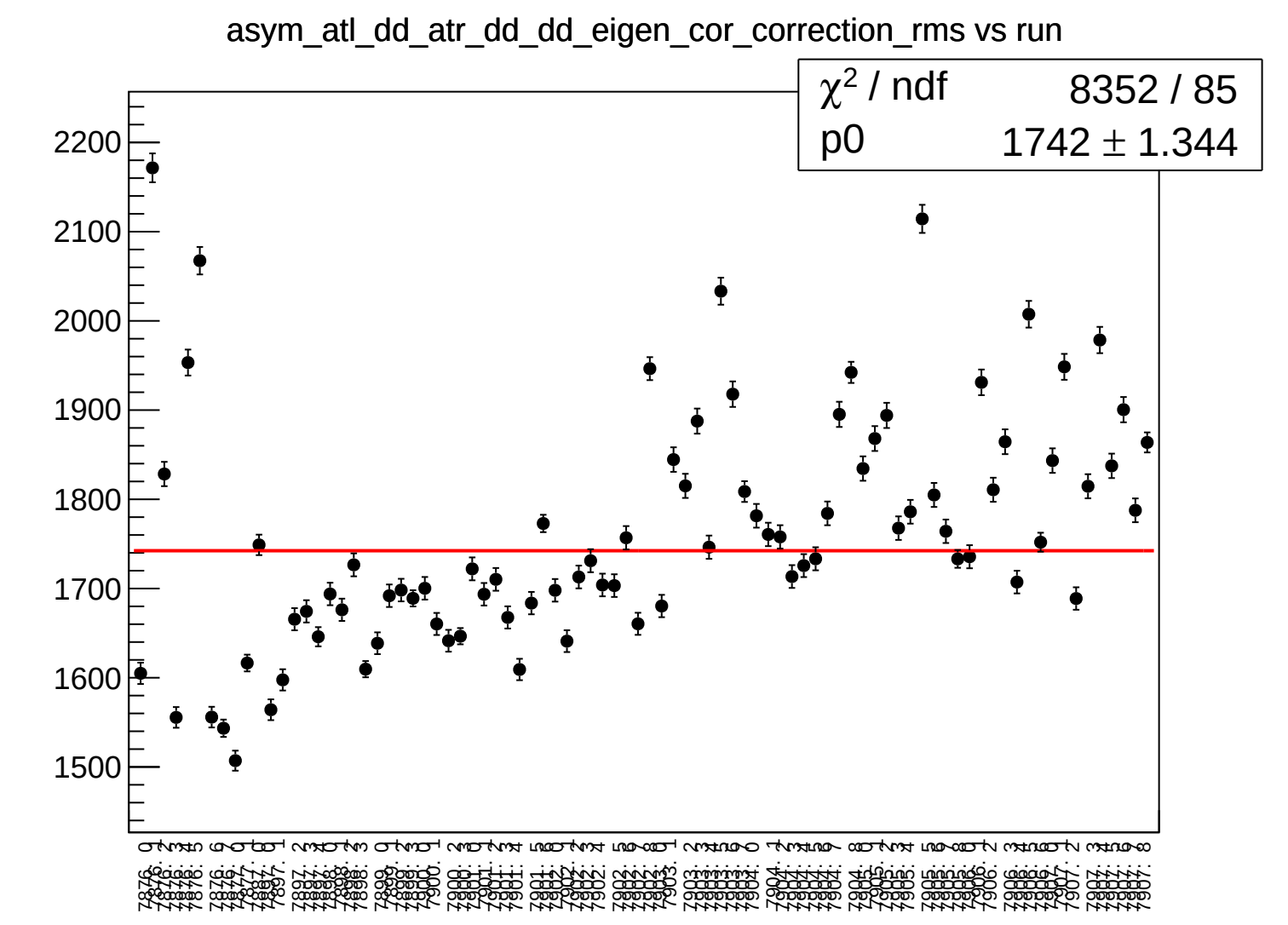

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.7 / 85
p0 617.9 ± 1389
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1887
Std Dev 0
2
1
0
−1
−2

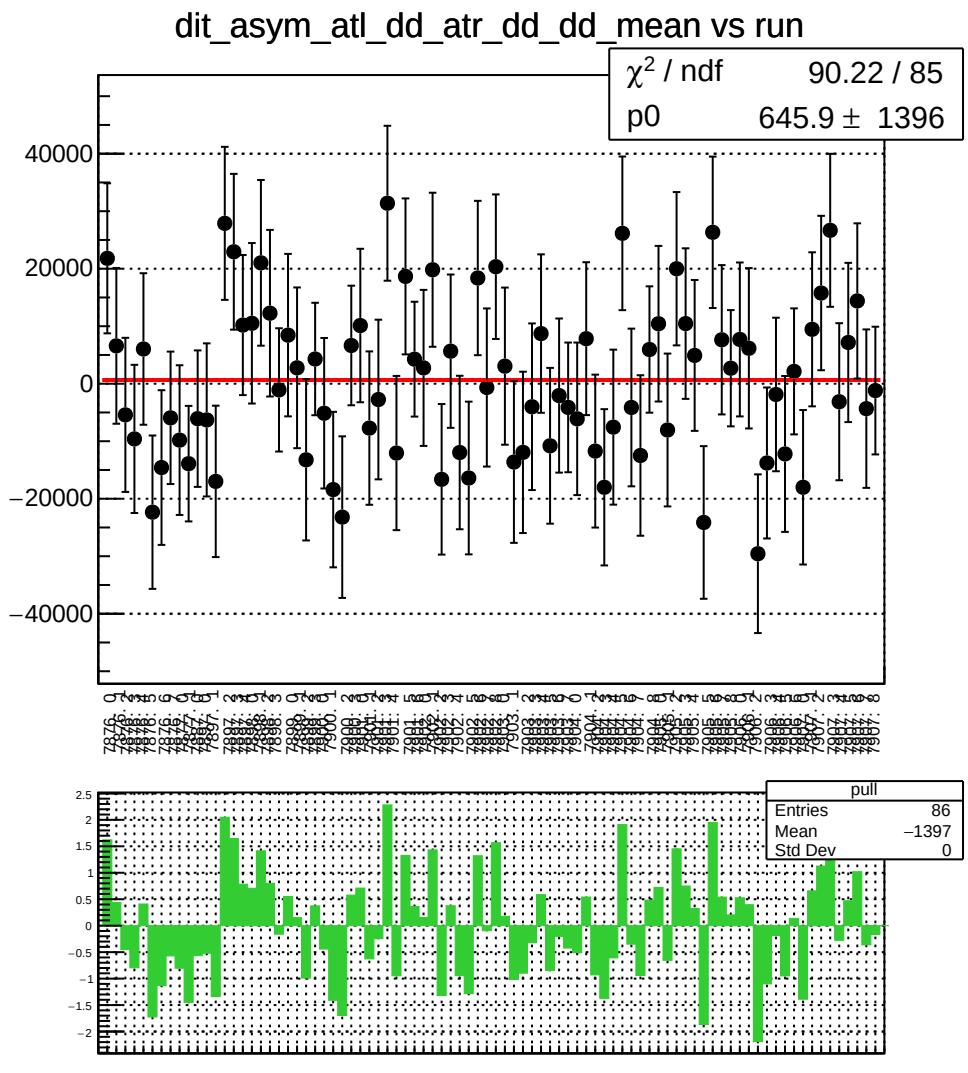

pull1D
Entries 86
Mean −0.0006153
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

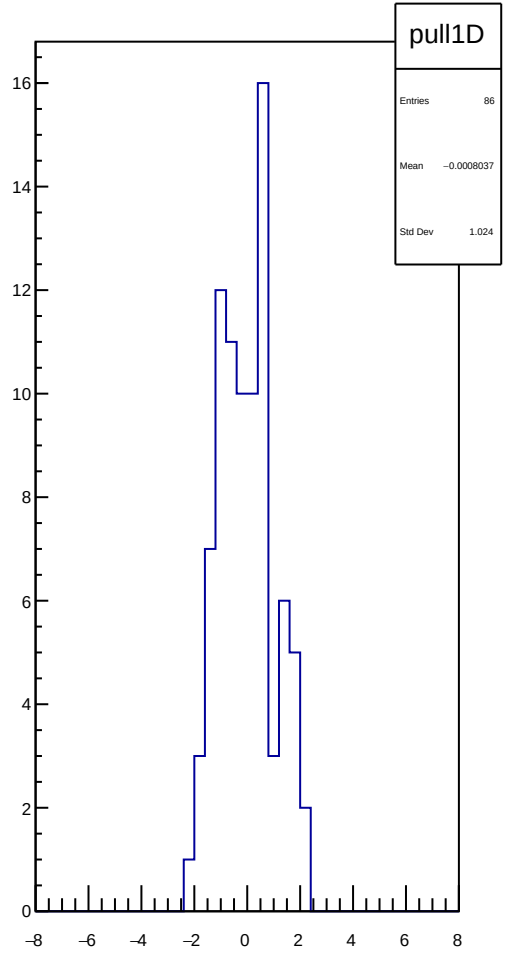

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1072 / 85
p0 1276 ± 0.9825
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

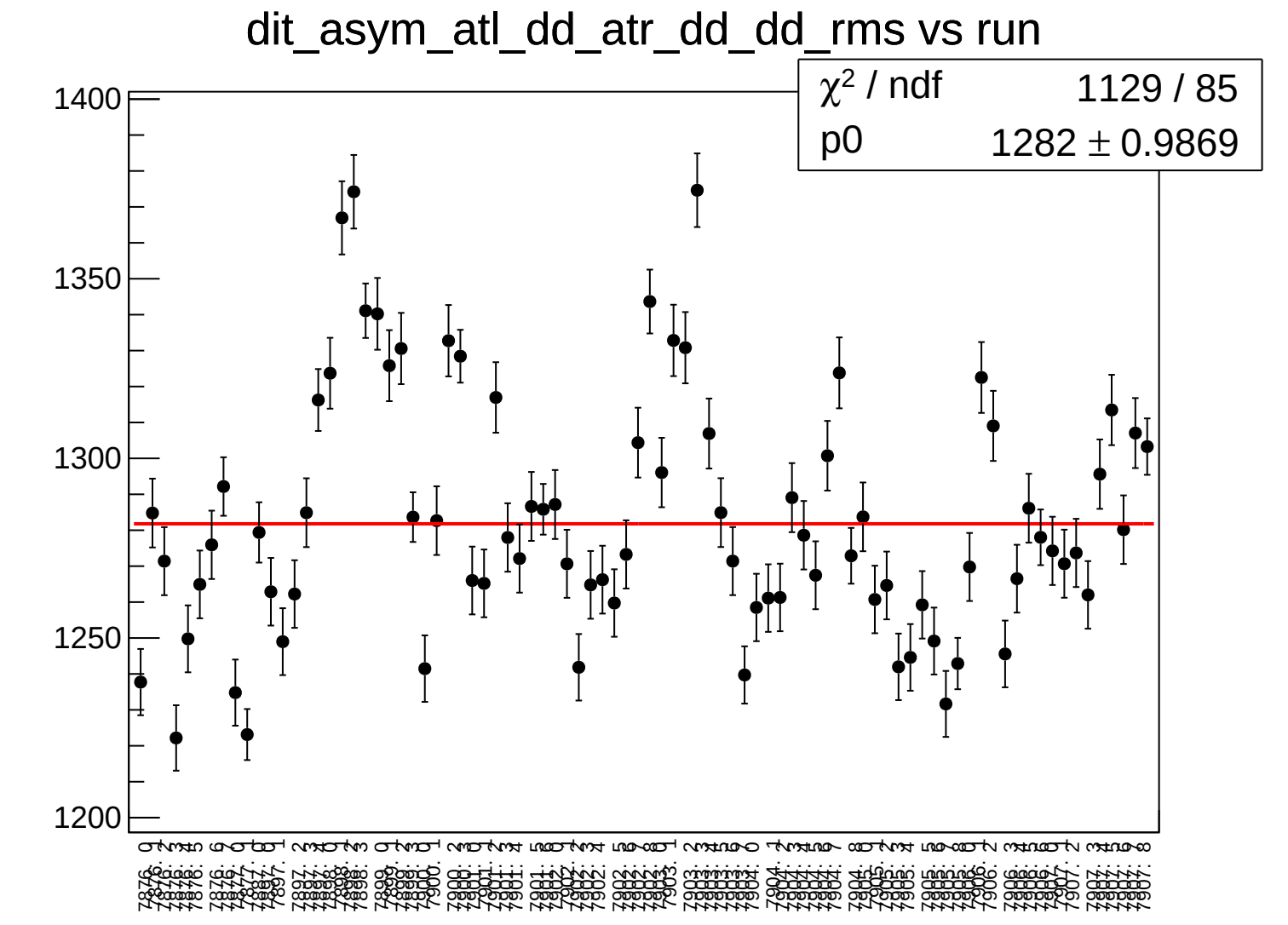

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.87 / 85
p0 3110 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −35.09
Std Dev 0
2
1
0
−1
−2
−3

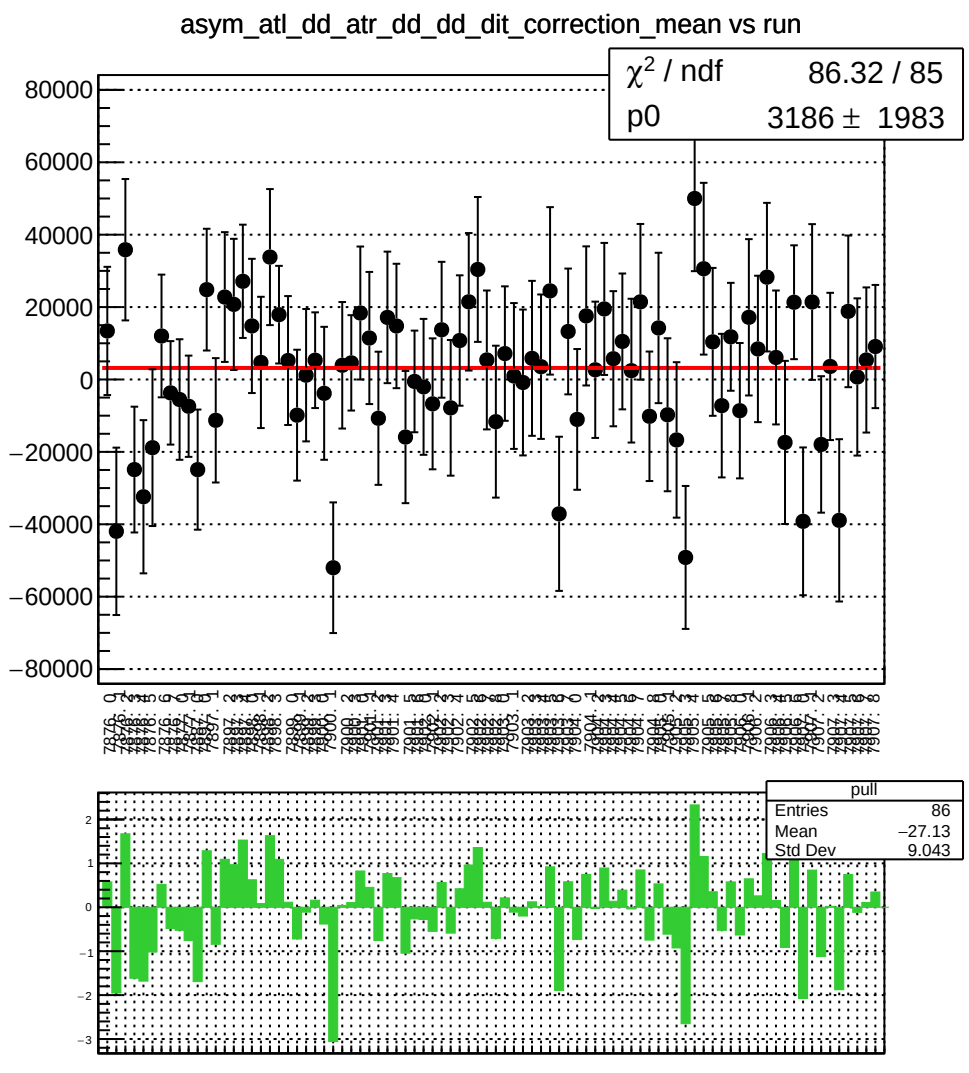

pull1D
Entries 86
Mean −0.01307
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

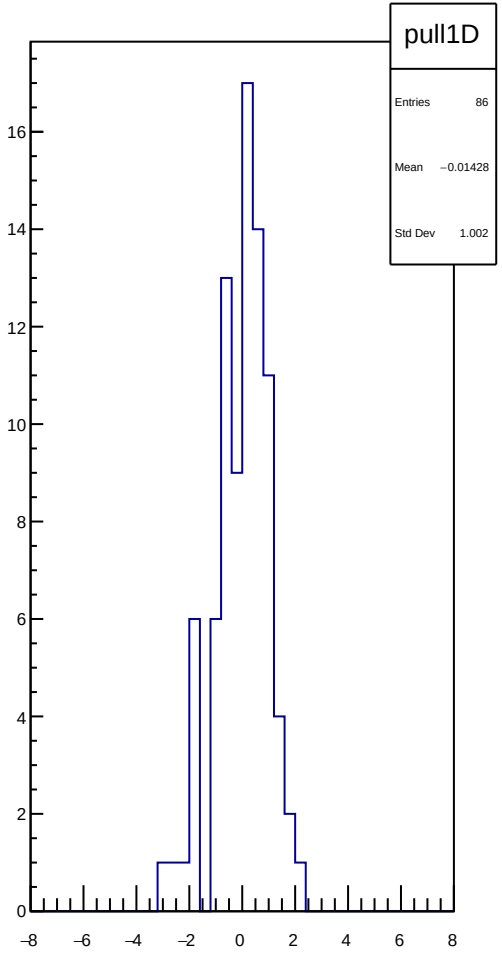

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8352 / 85
p0 1742 ± 1.344
2200
2100
2000
1900
1800
1700
1600
1500

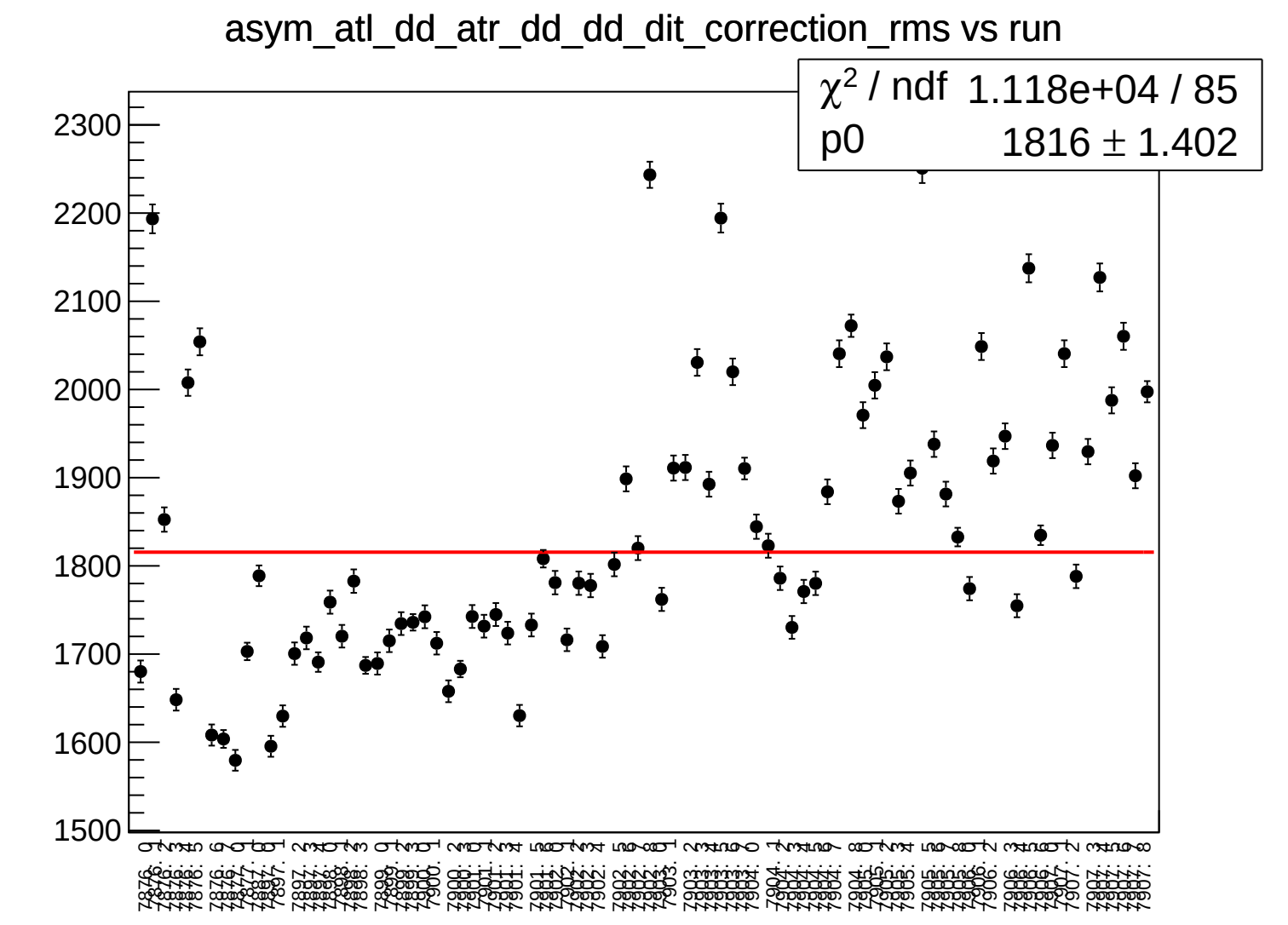

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ^2 / ndf 90.22 / 85
p0 645.9 ± 1396
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1397
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

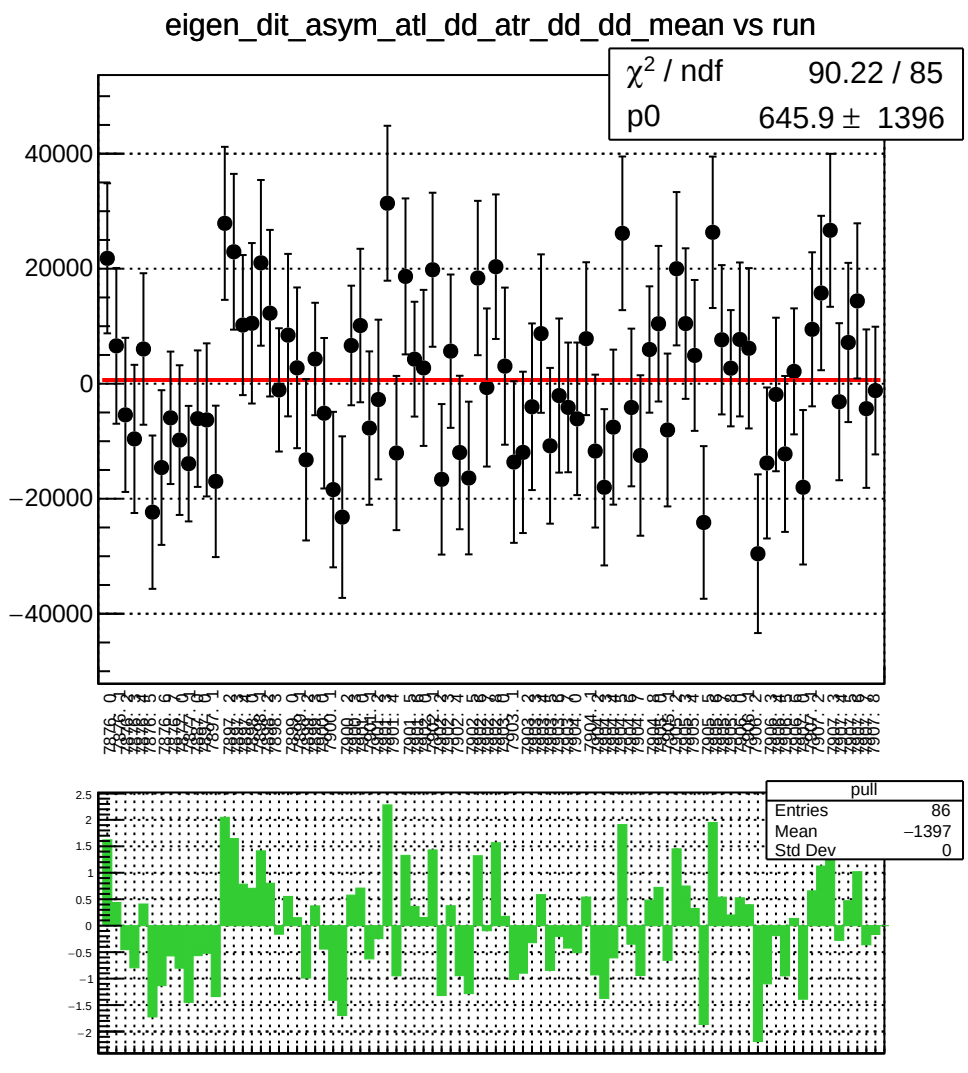

pull1D
Entries 86
Mean −0.0008037
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

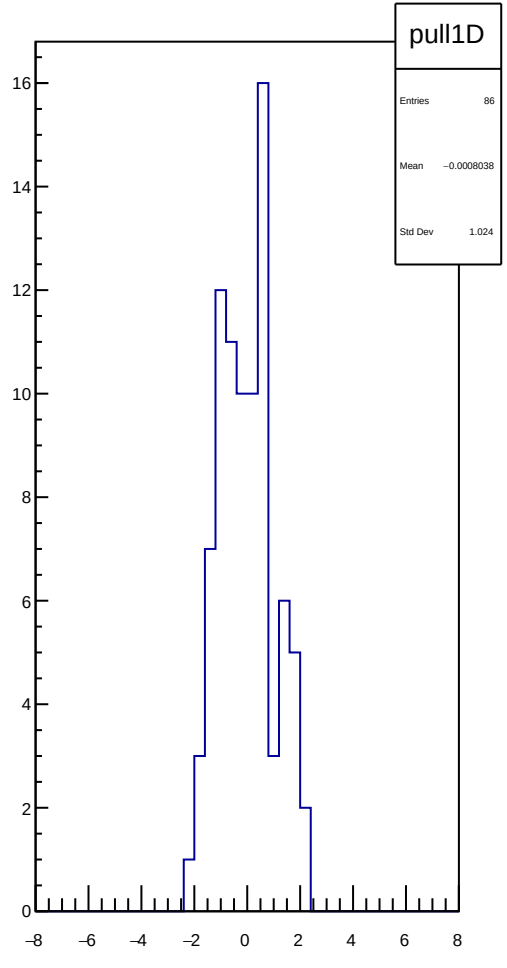

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1129 / 85
p0 1282 ± 0.9869
1400
1350
1300
1250
1200

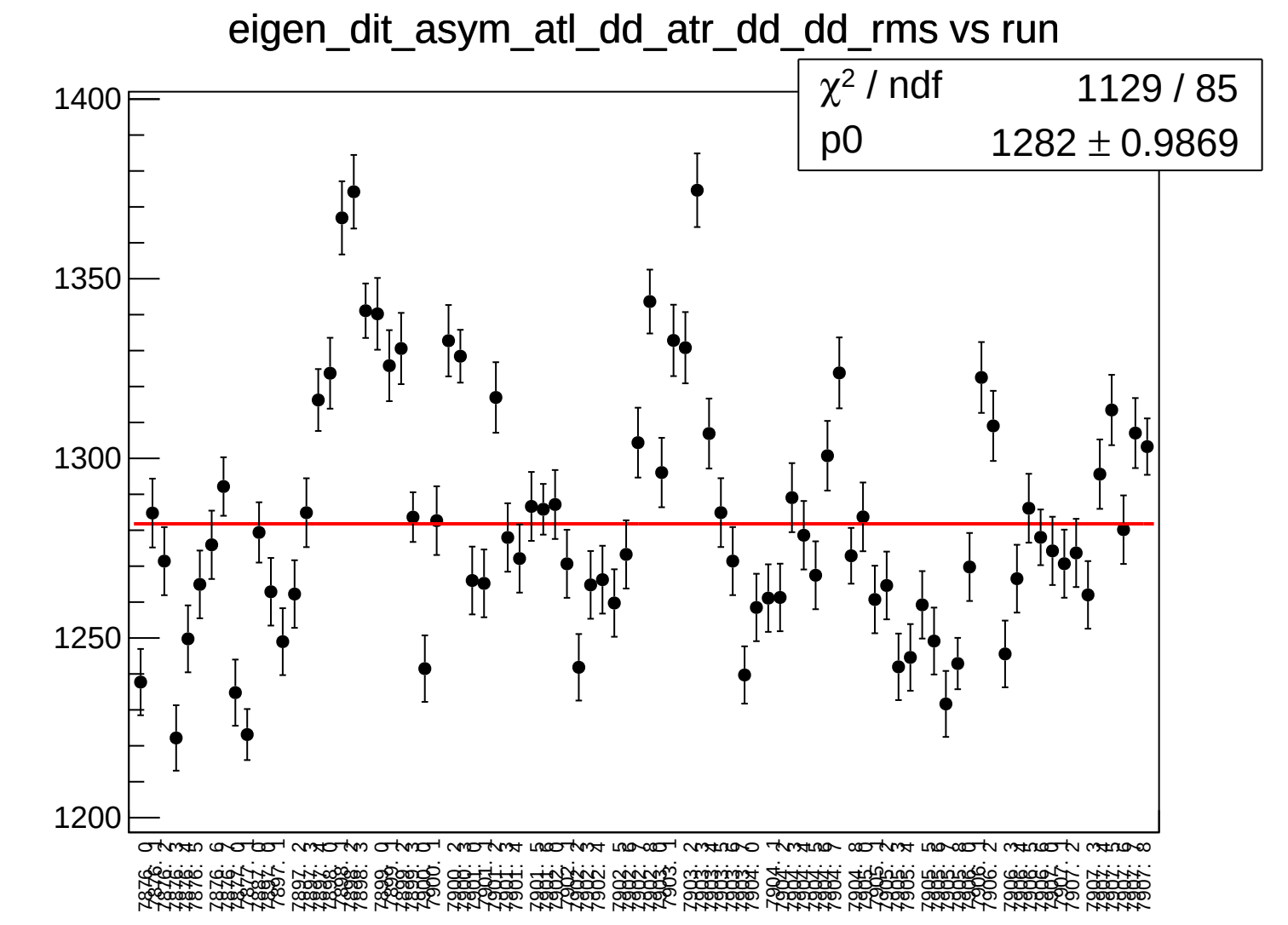

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 86.32 / 85
p0 3186 ± 1983
pull
Entries 86
Mean −27.13
Std Dev 9.043

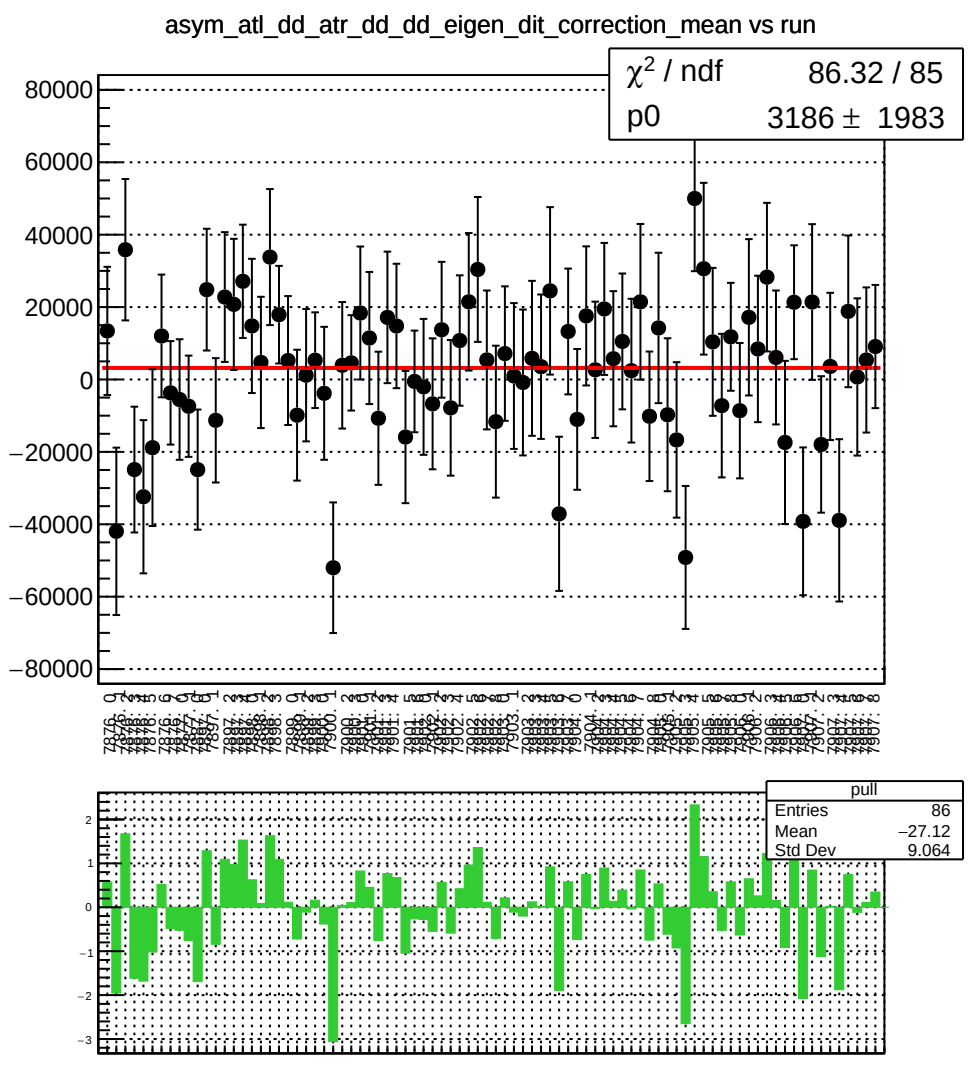

pull1D
Entries 86
Mean −0.01428
Std Dev 1.002

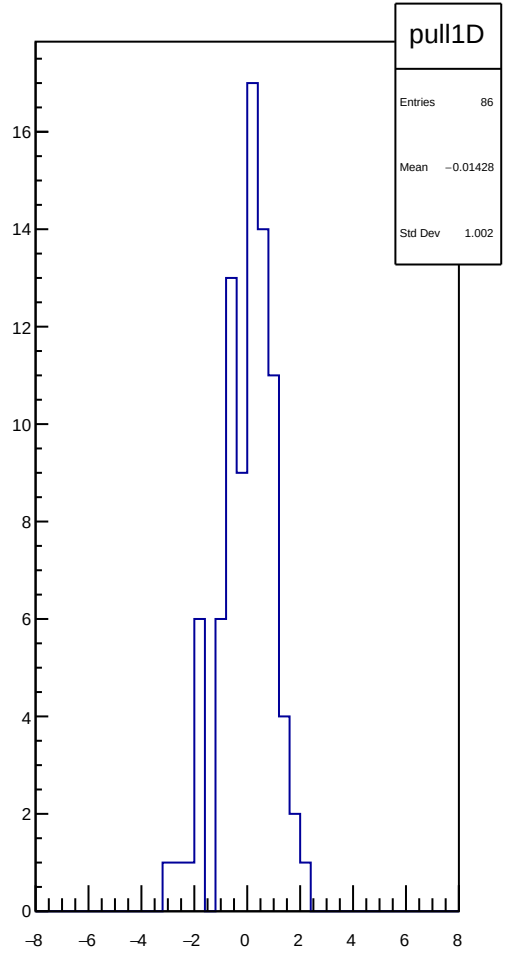

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.118e+04 / 85
p0 1816 ± 1.402
2300
2200
2100
2000
1900
1800
1700
1600
1500

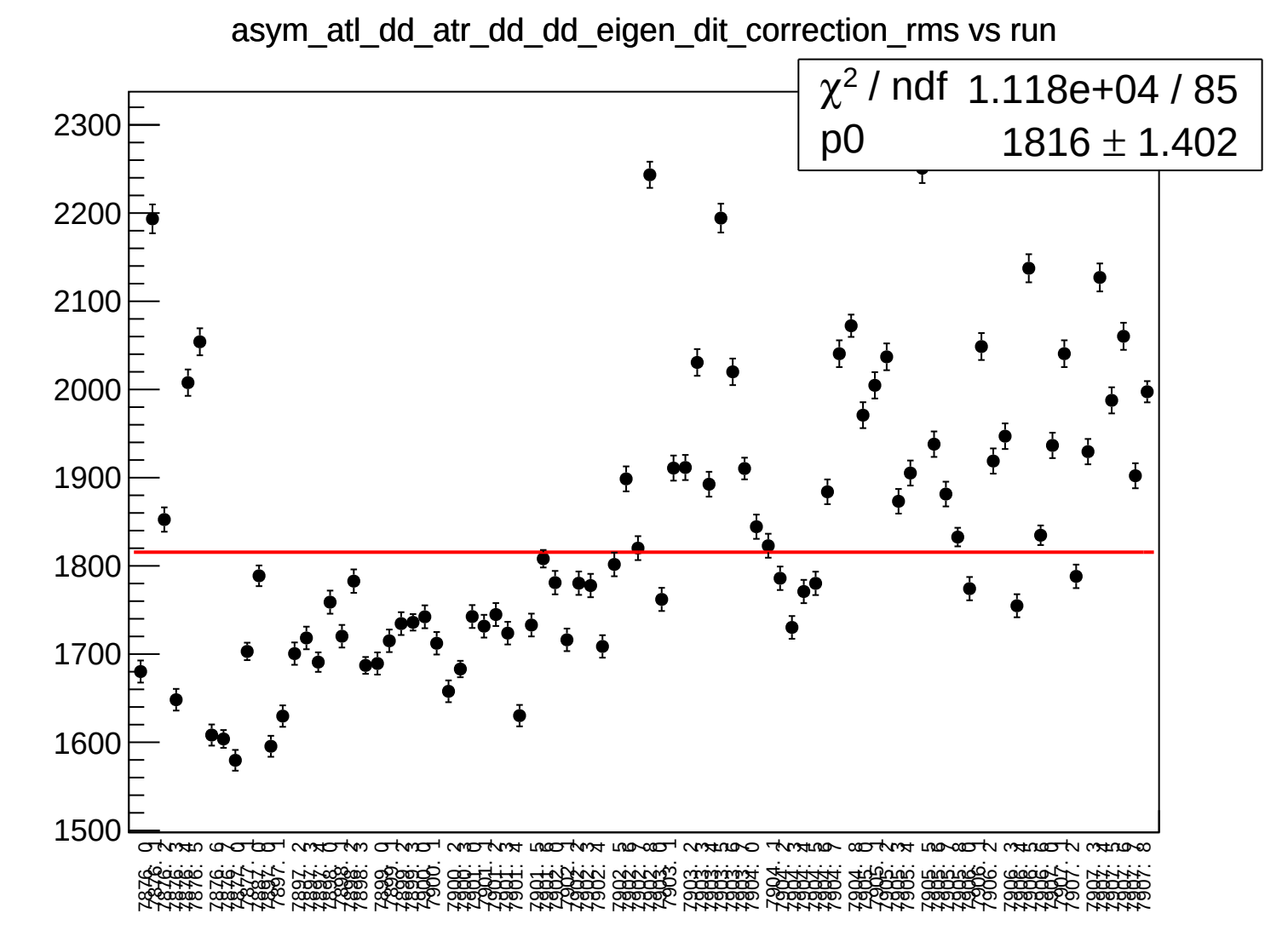

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 90.22 / 85
p0 645.9 ± 1396
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1397
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

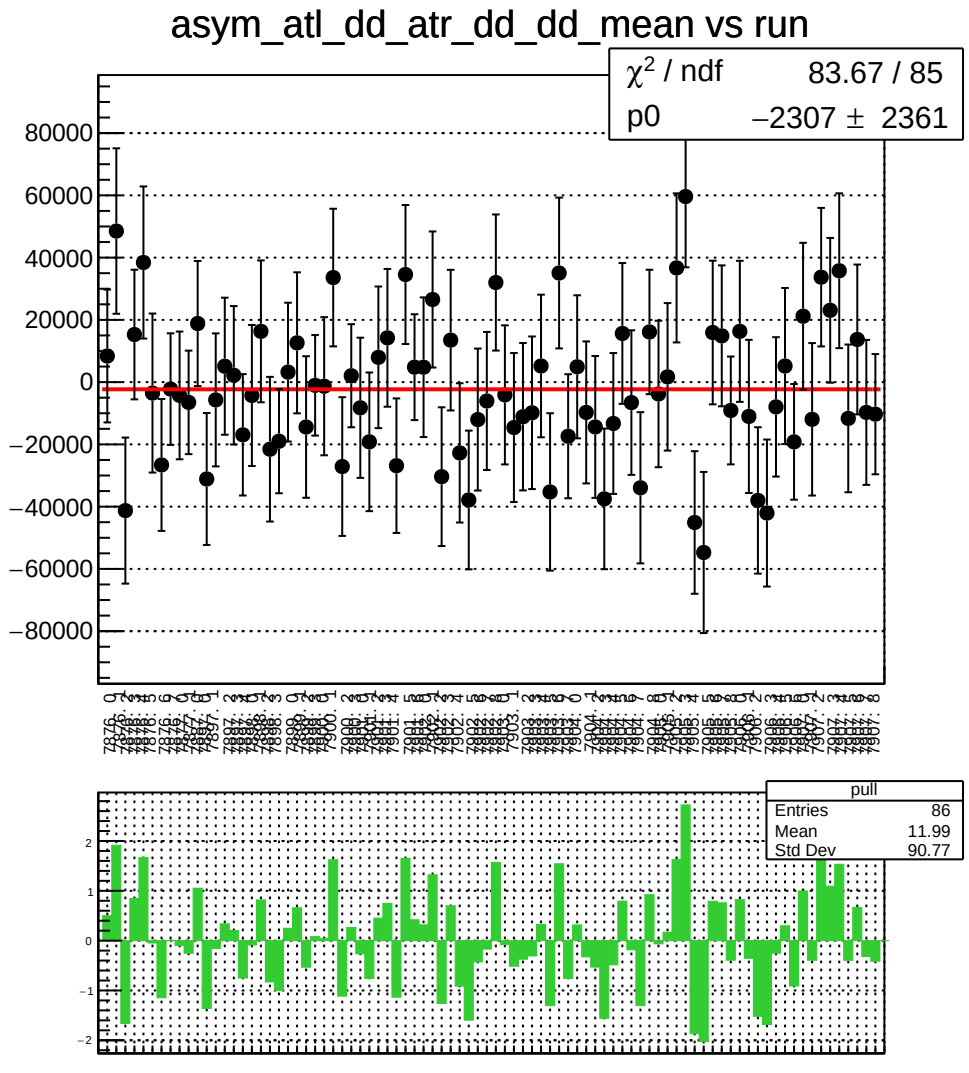

pull1D
Entries 86
Mean −0.0008038
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

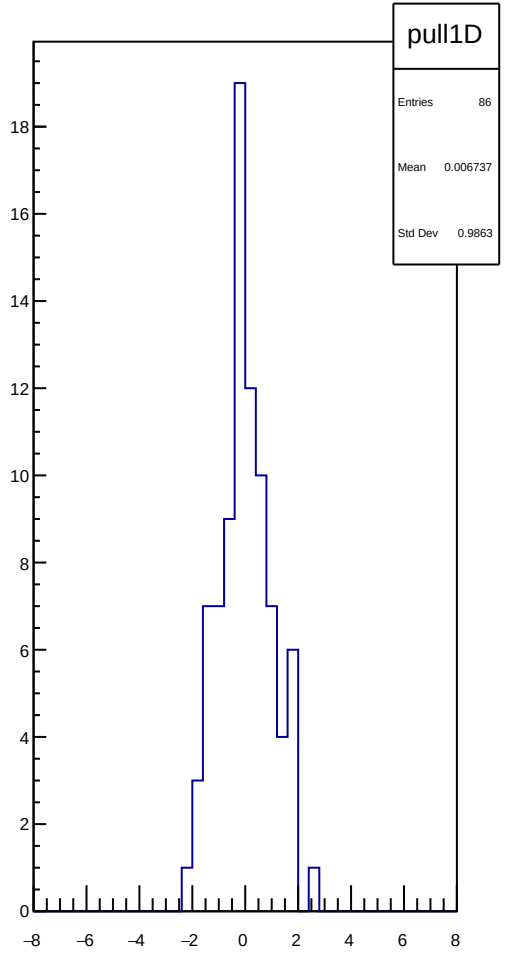

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1129 / 85
p0 1282 ± 0.9869
1400
1350
1300
1250
1200

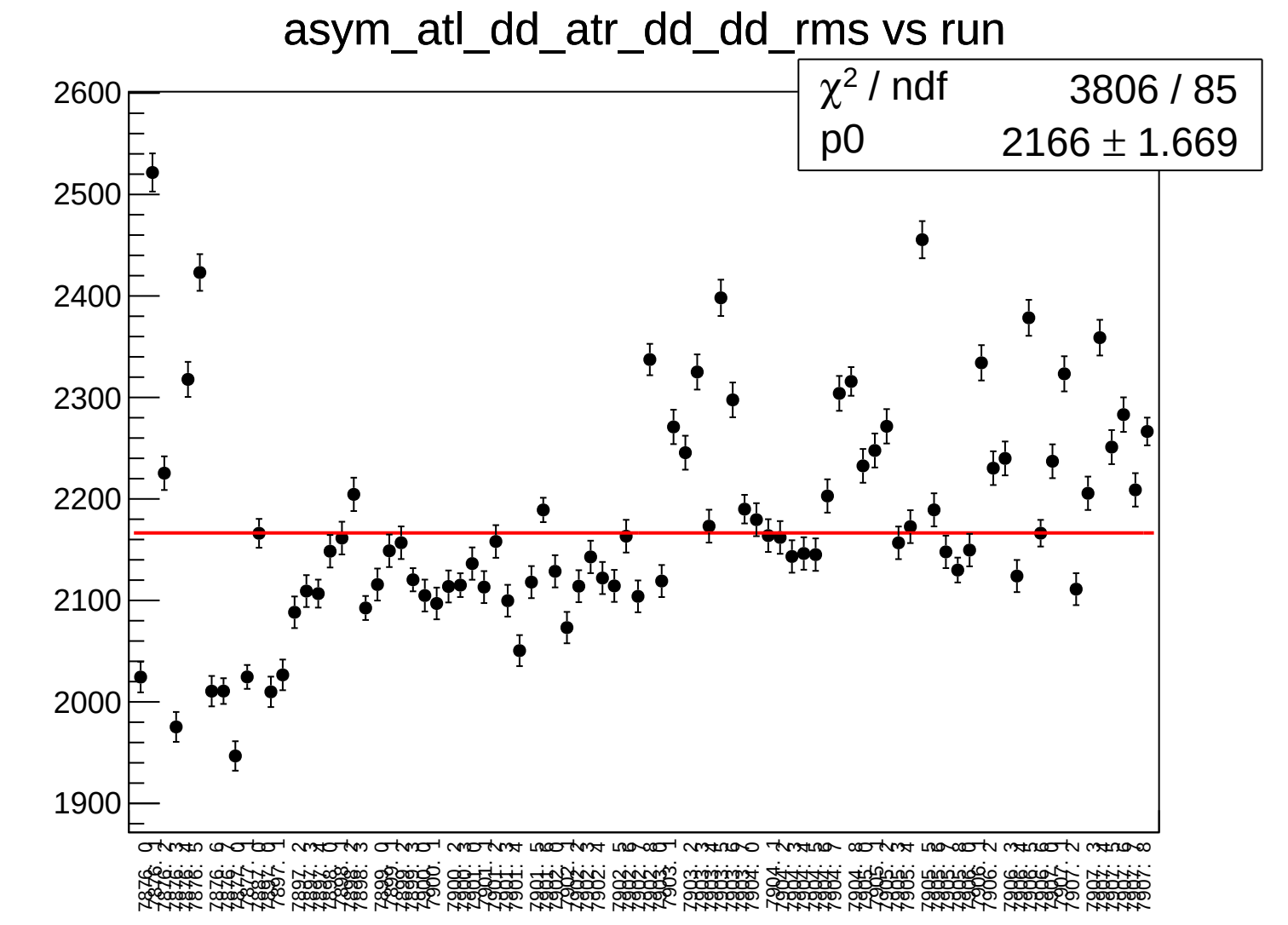

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.32 / 85
p0 3186 ± 1983
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −27.12
Std Dev 9.064
2
1
0
−1
−2
−3

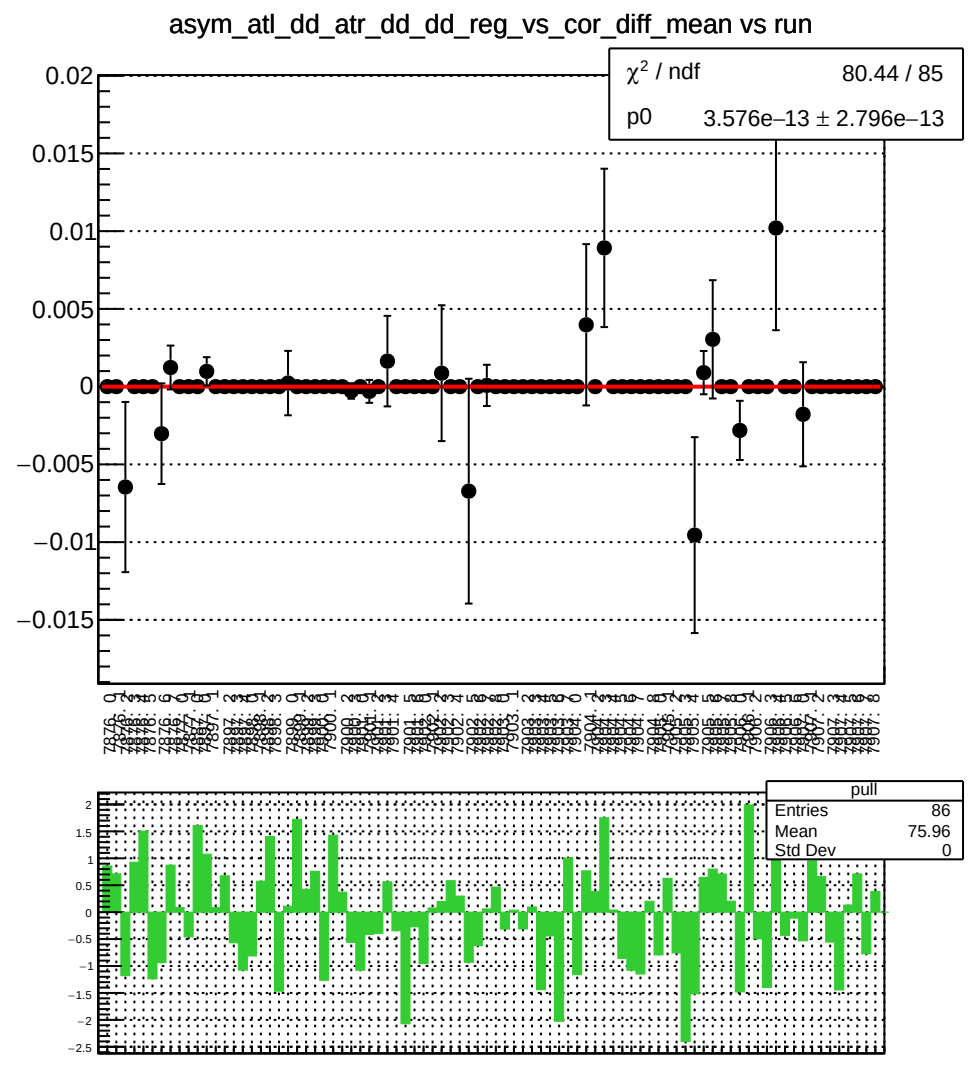

pull1D
Entries 86
Mean −0.01428
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

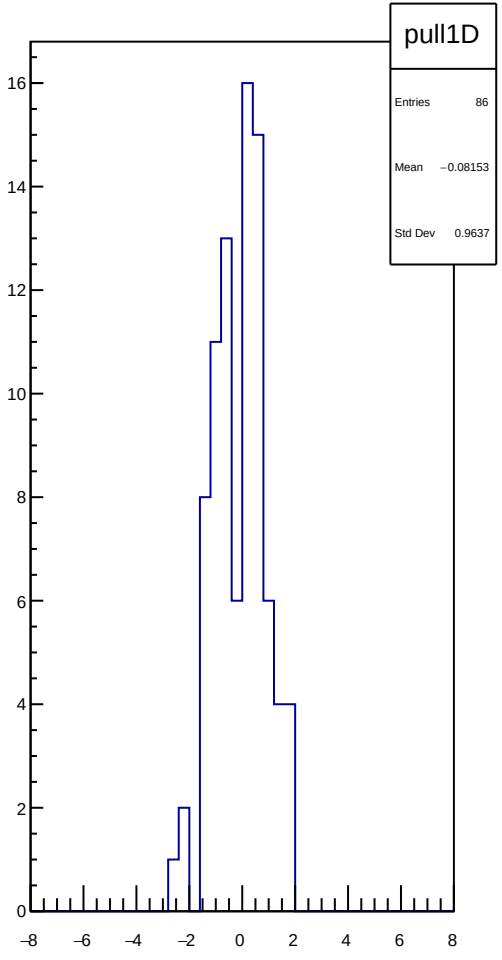

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.118e+04 / 85
p0 1816 ± 1.402
2300
2200
2100
2000
1900
1800
1700
1600
1500

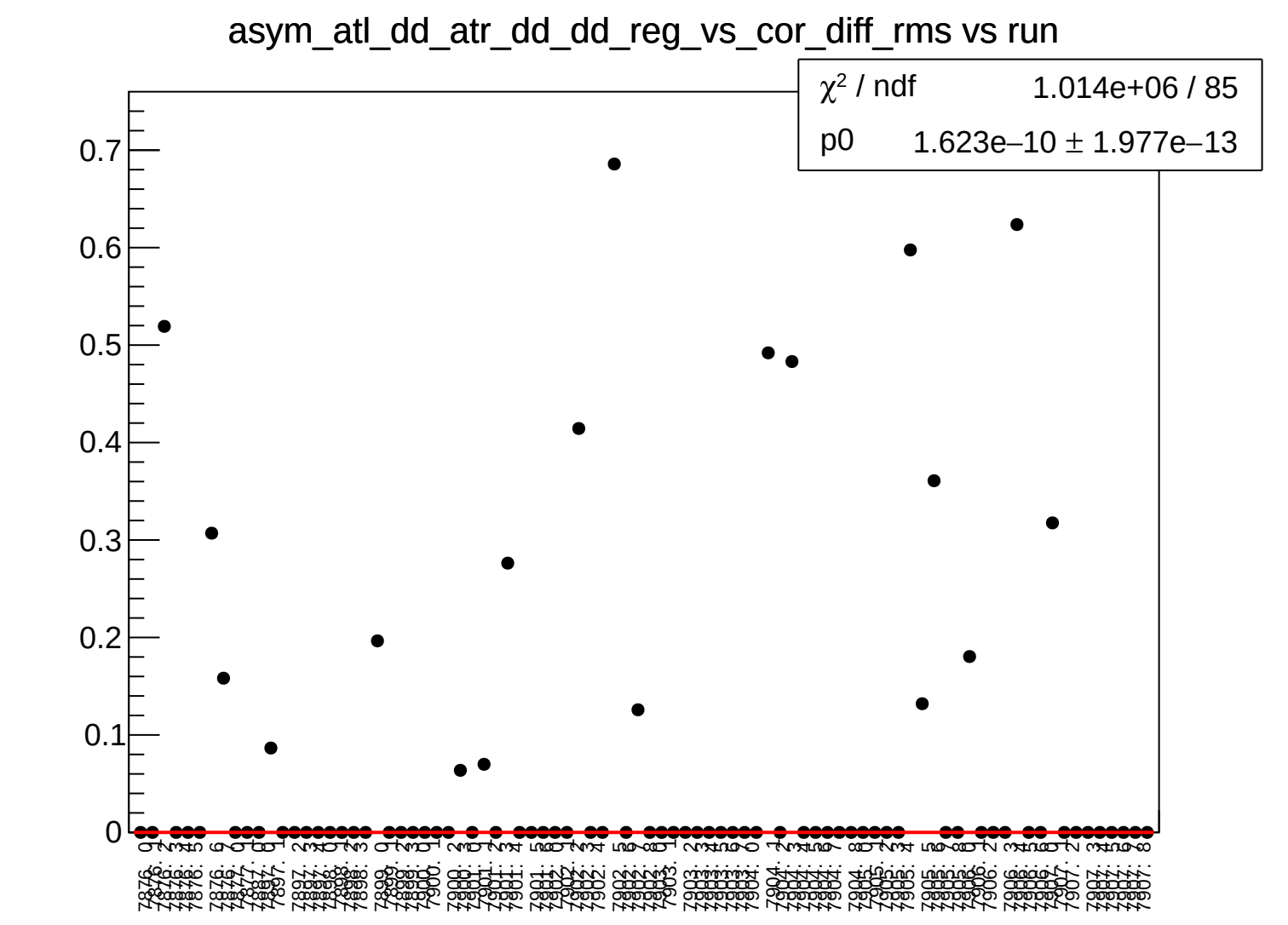

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 83.67 / 85
p0 −2307 ± 2361
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 11.99
Std Dev 90.77
2
1
0
−1
−2

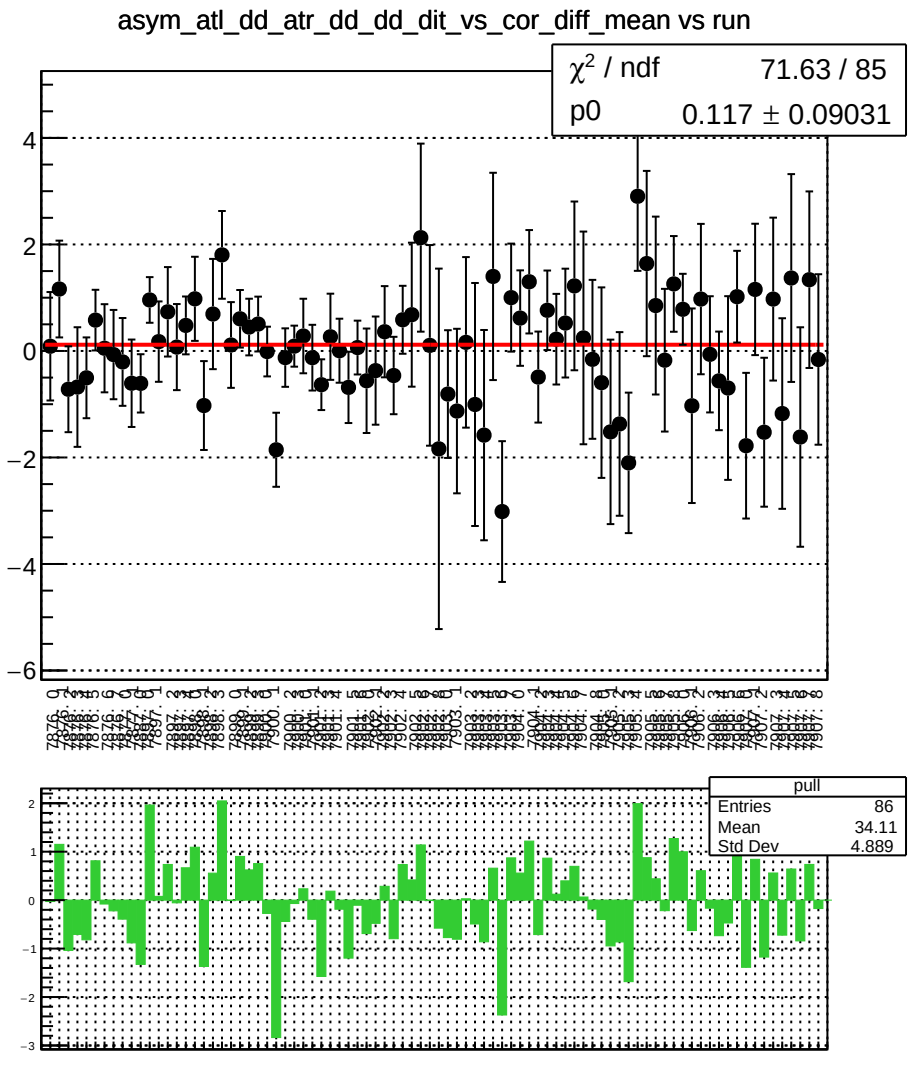

pull1D
Entries 86
Mean 0.006737
Std Dev 0.9863
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

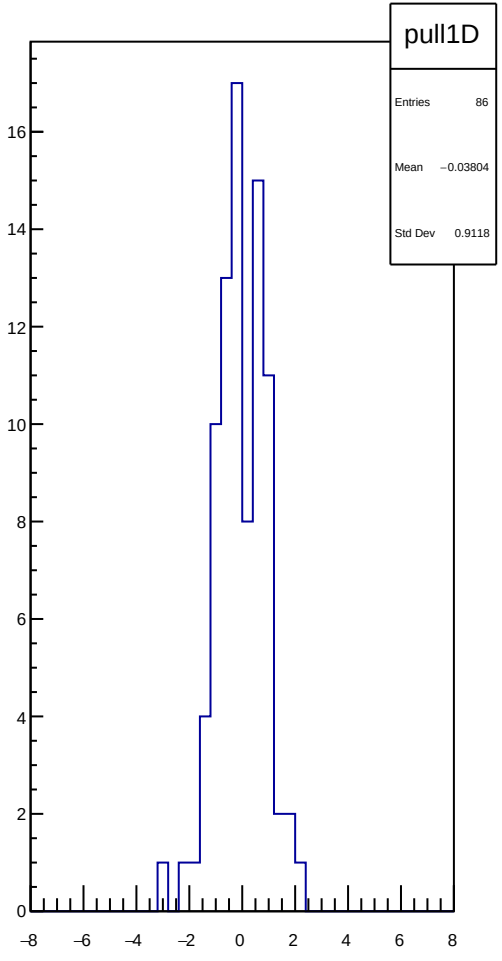

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3806 / 85
p0 2166 ± 1.669
2600
2500
2400
2300
2200
2100
2000
1900

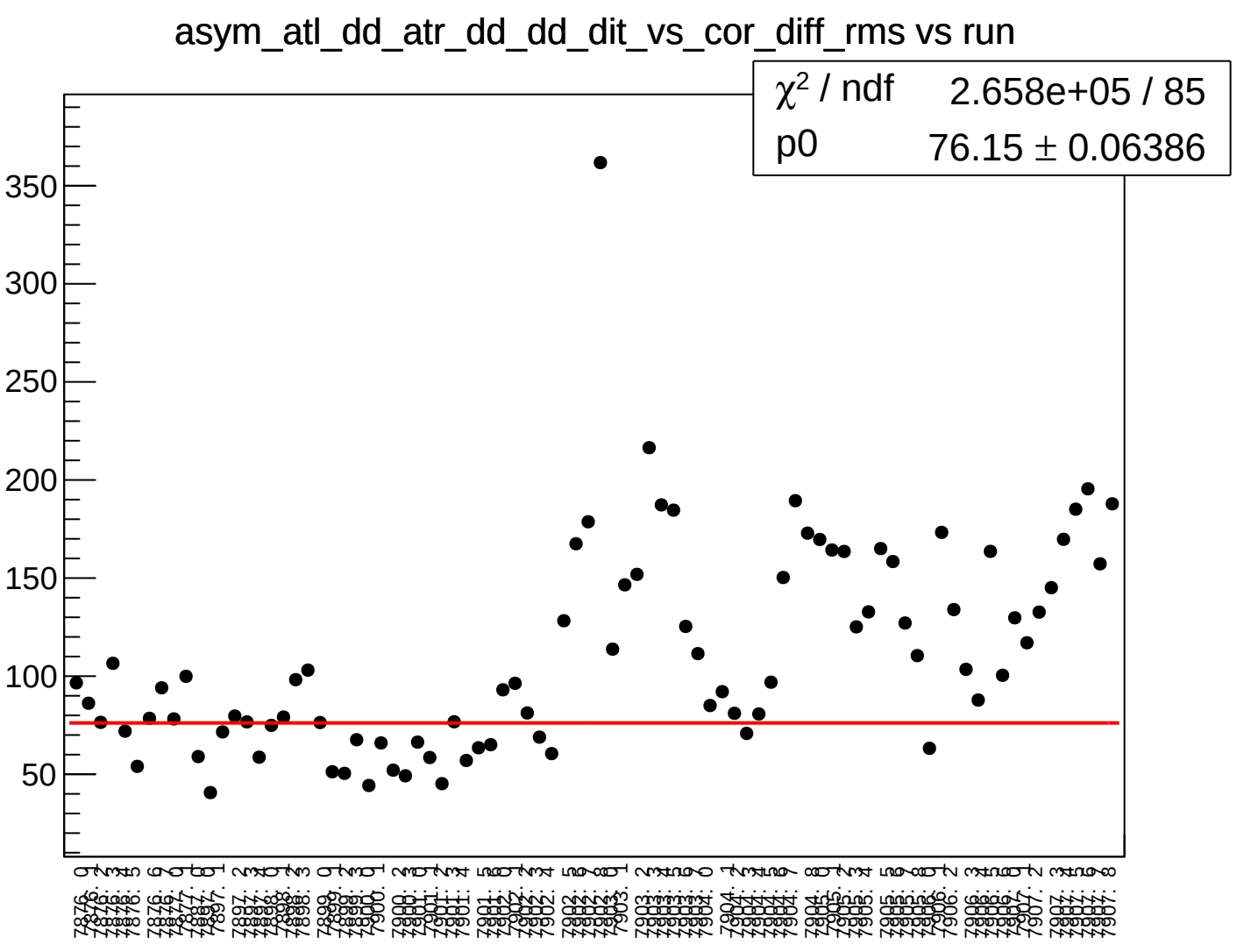

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.44 / 85
p0 3.576e−13 ± 2.796e−13
pull
Entries 86
Mean 75.96
Std Dev 0

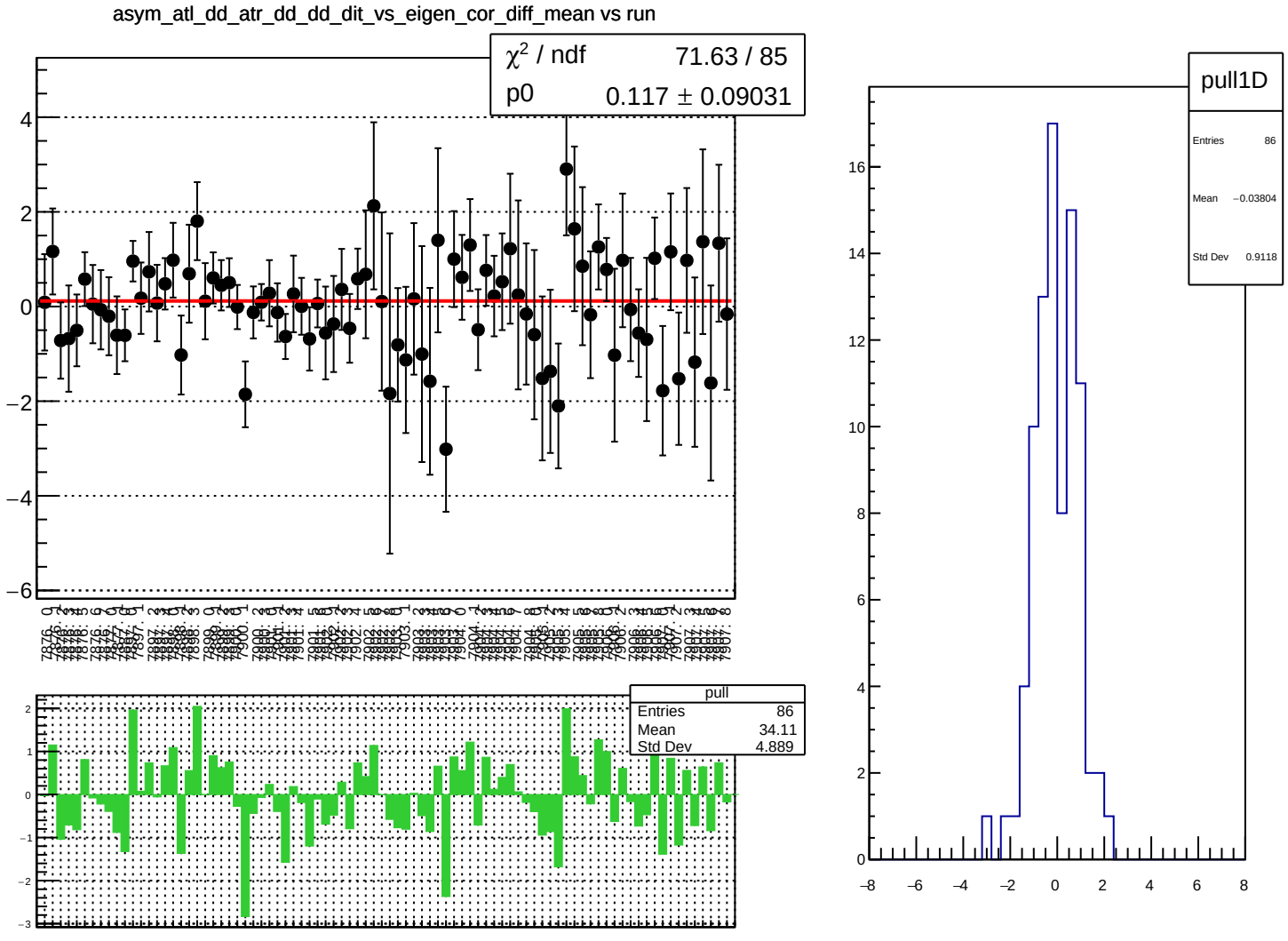

pull1D
Entries 86
Mean −0.08153
Std Dev 0.9637

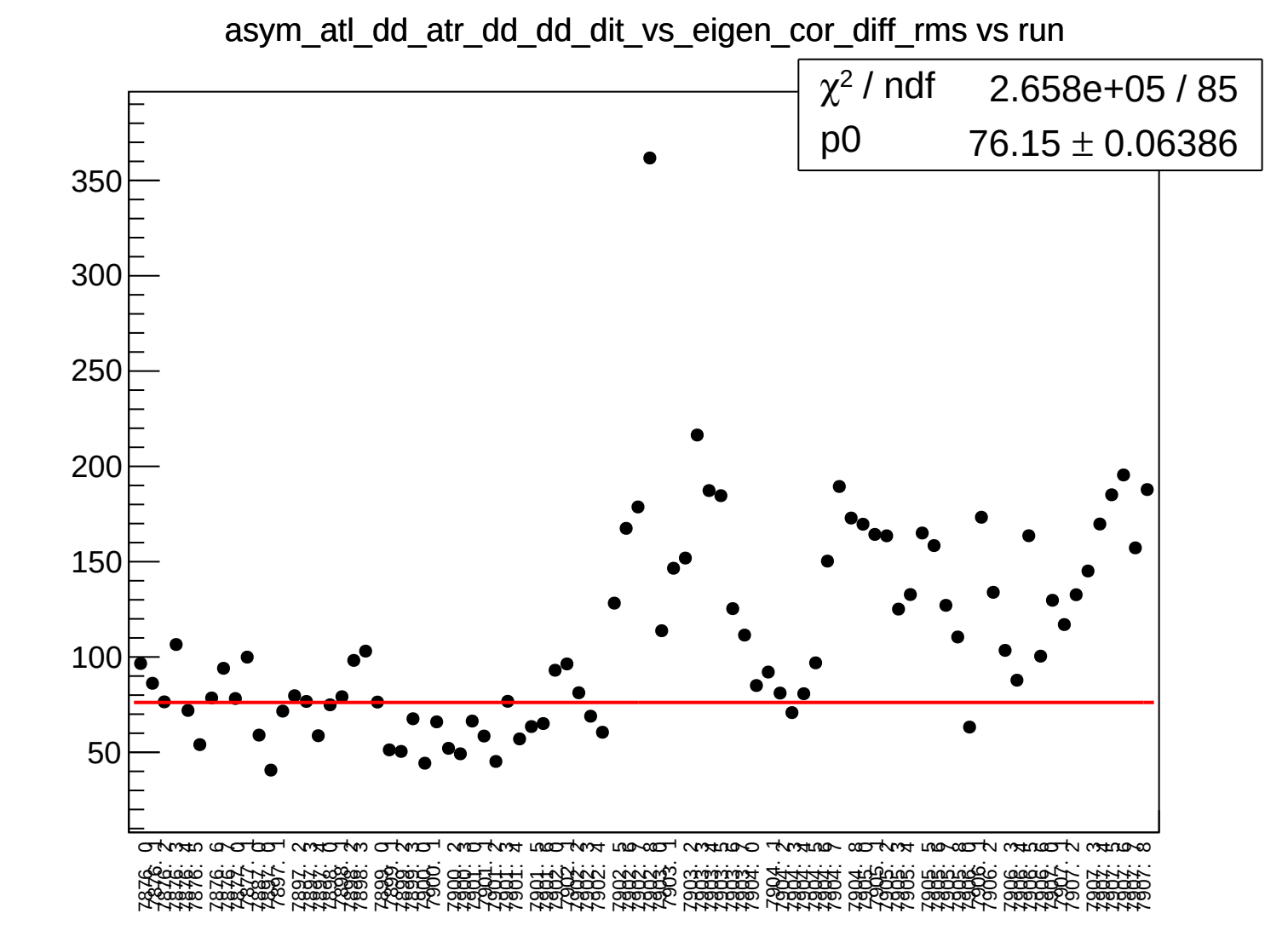

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 85
p0 1.623e−10 ± 1.977e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

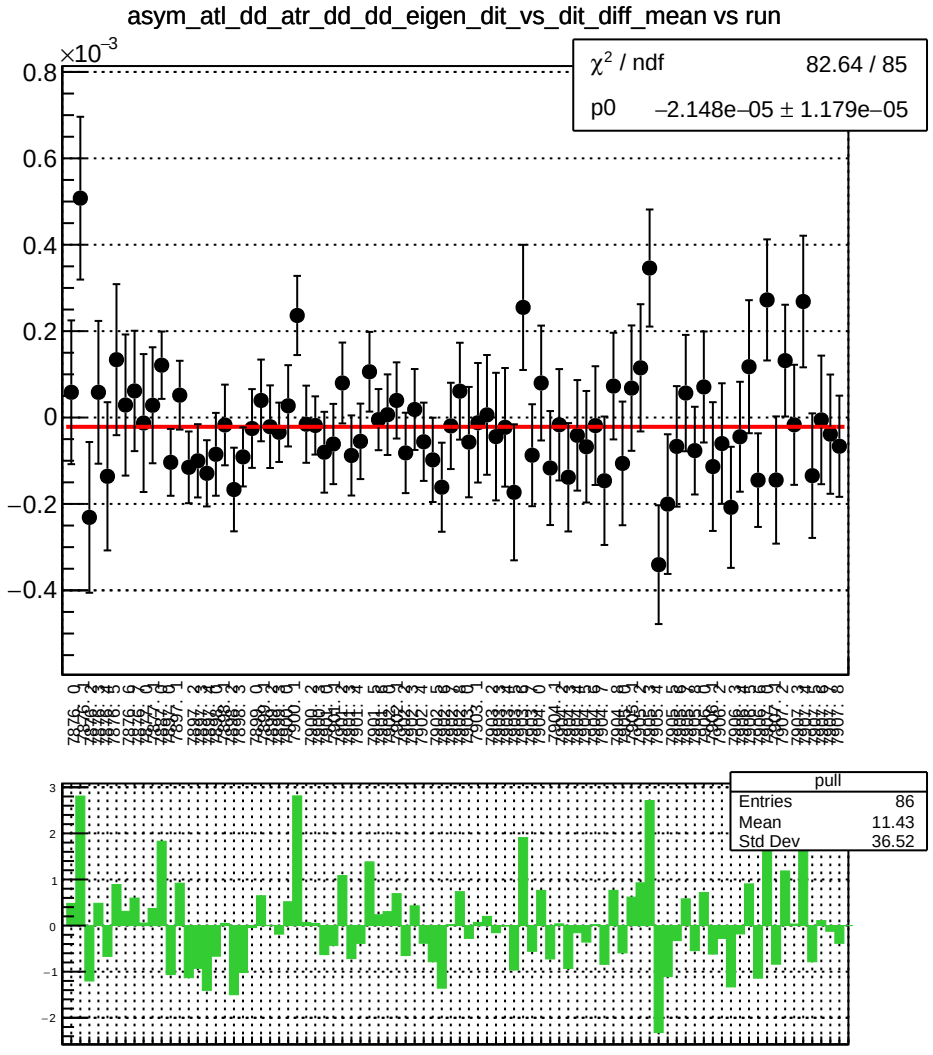

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.63 / 85
p0 0.117 ± 0.09031
pull
Entries 86
Mean 34.11
Std Dev 4.889

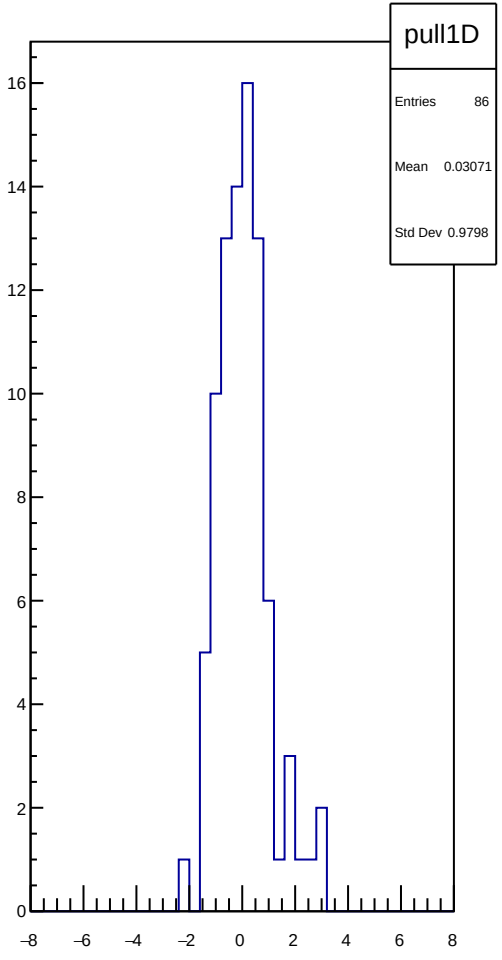

pull1D
Entries 86
Mean −0.03804
Std Dev 0.9118

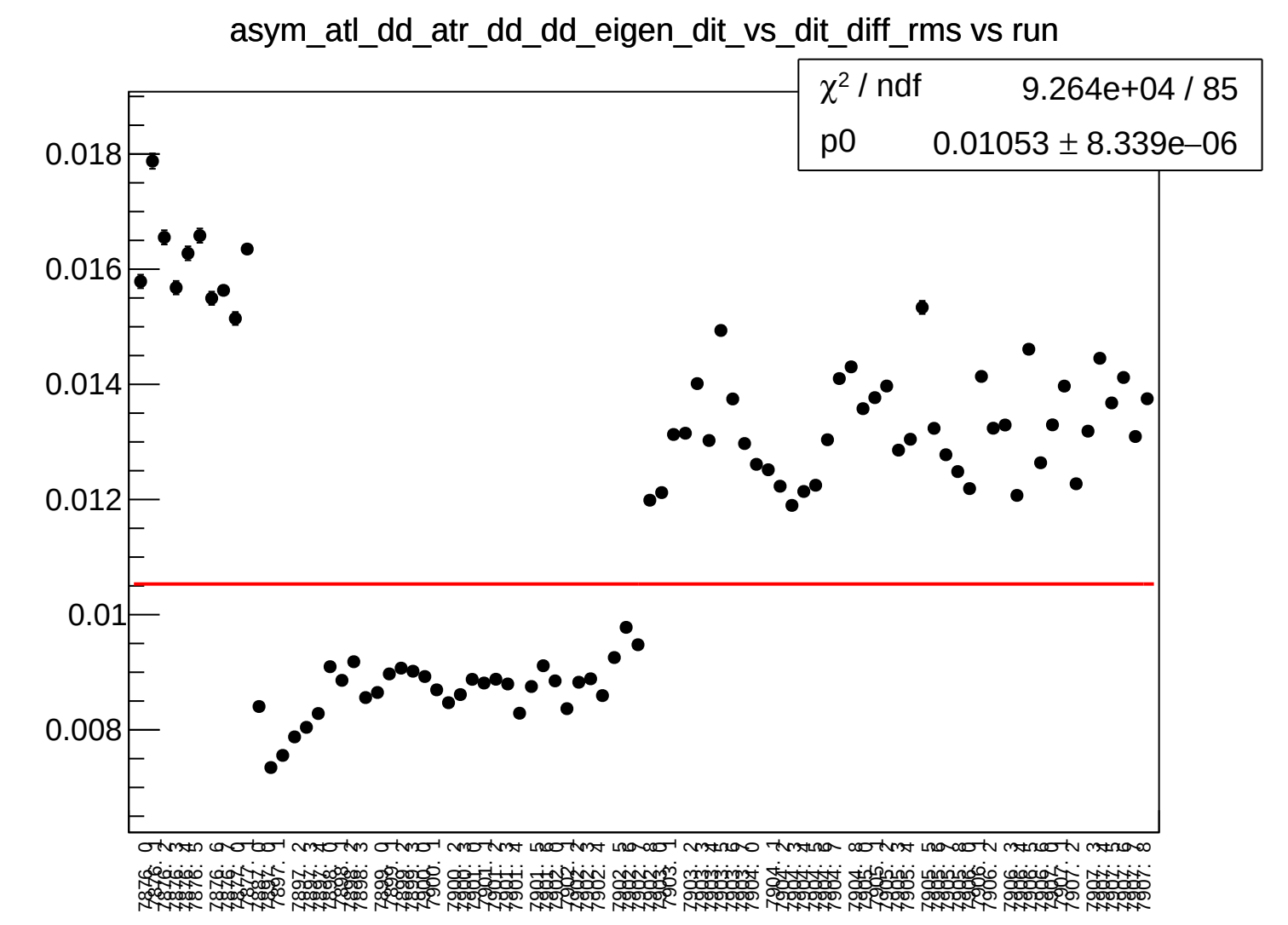

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.658e+05 / 85
p0 76.15 ± 0.06386
350
300
250
200
150
100
50

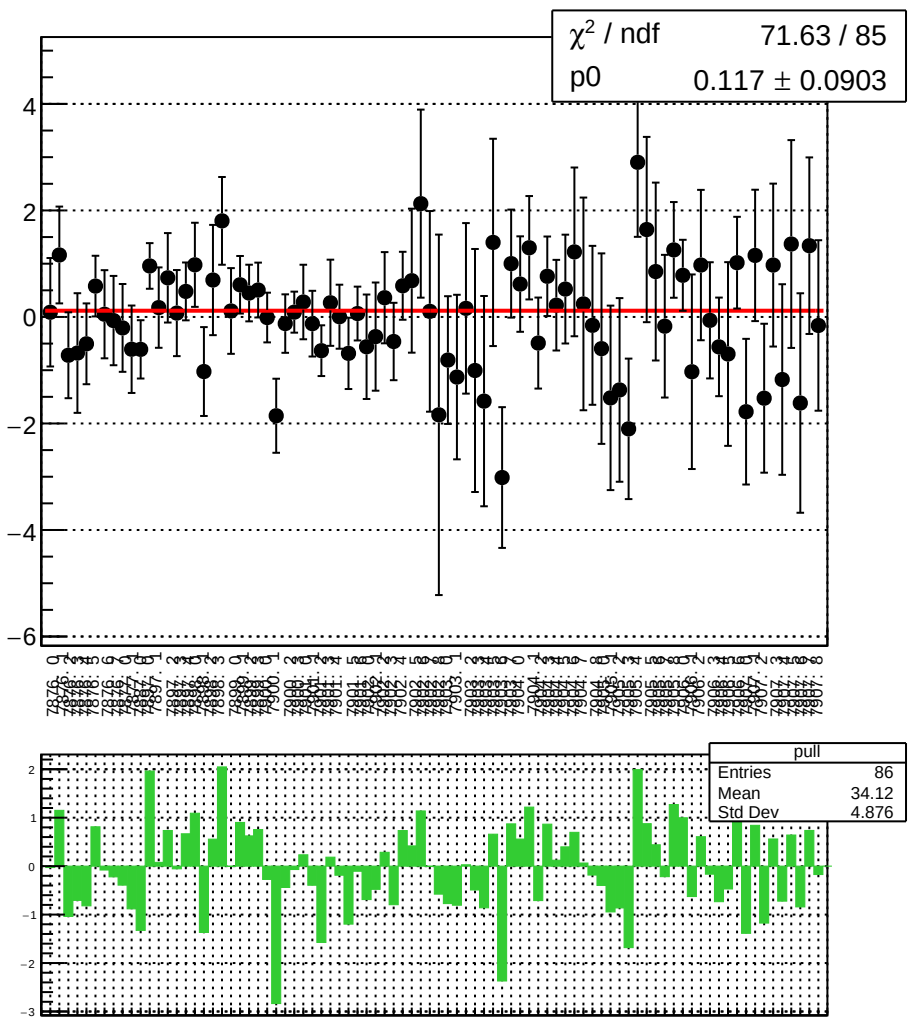

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.63 / 85
p0 0.117 ± 0.09031
pull
Entries 86
Mean 34.11
Std Dev 4.889
pull1D
Entries 86
Mean −0.03804
Std Dev 0.9118

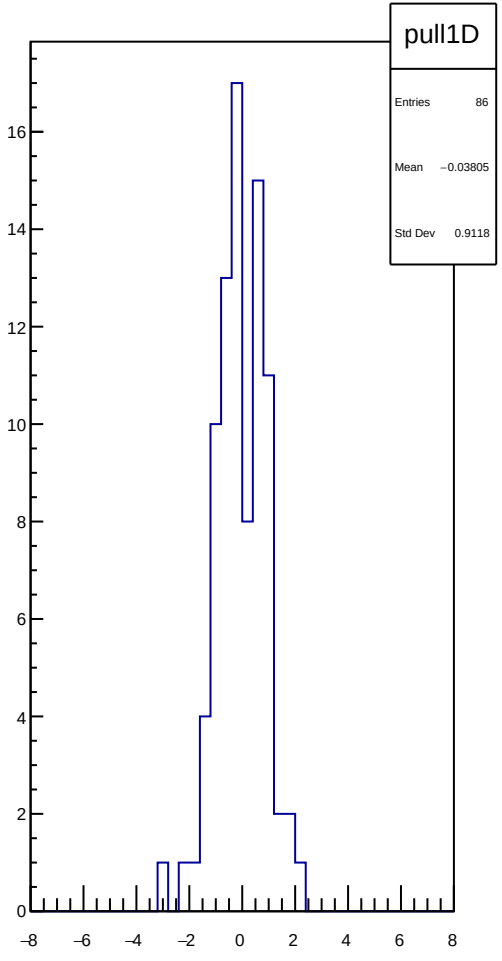

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.658e+05 / 85
p0 76.15 ± 0.06386
350
300
250
200
150
100
50

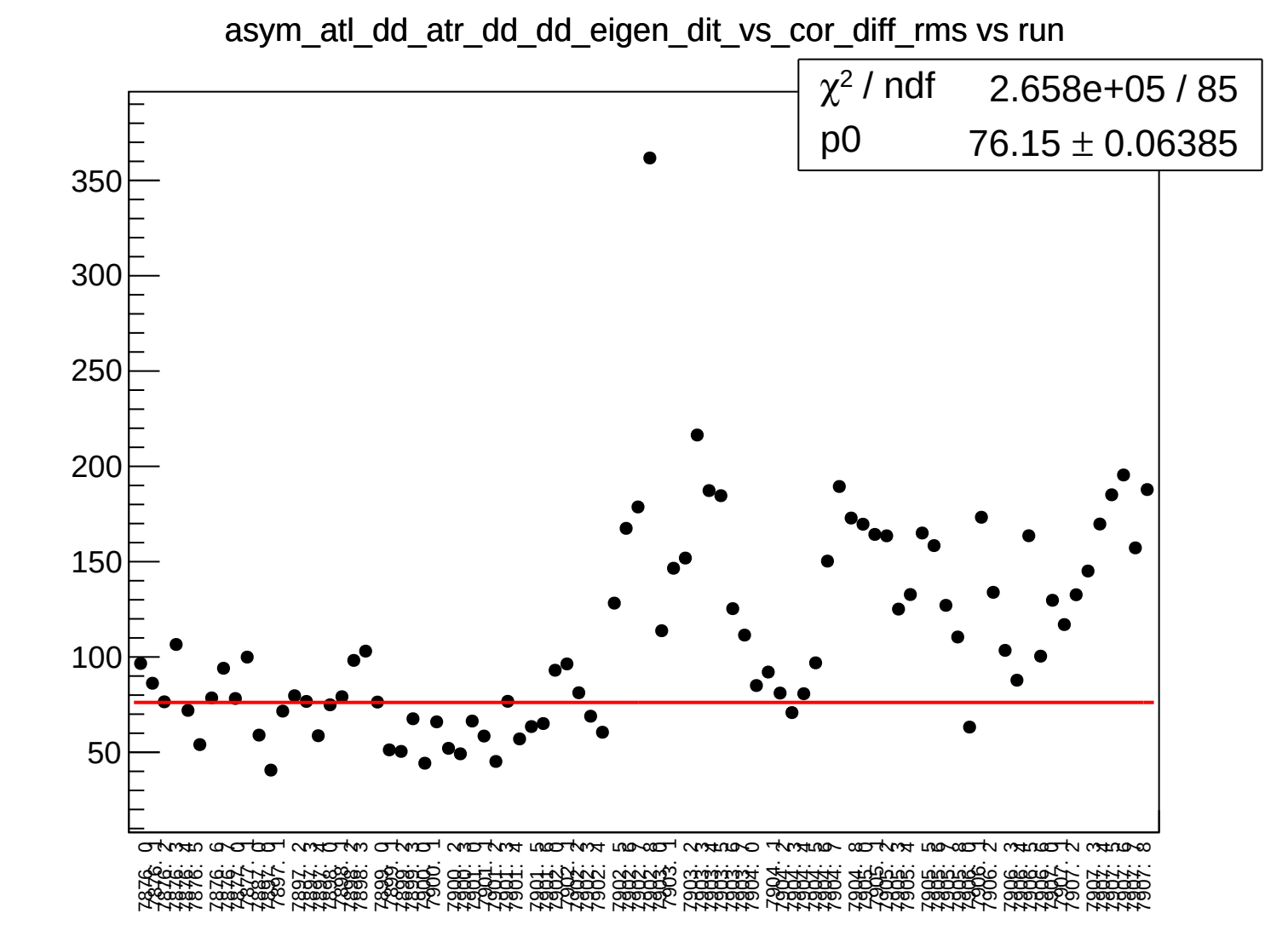

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.64 / 85
p0 −2.148e−05 ± 1.179e−05
pull
Entries 86
Mean 11.43
Std Dev 36.52

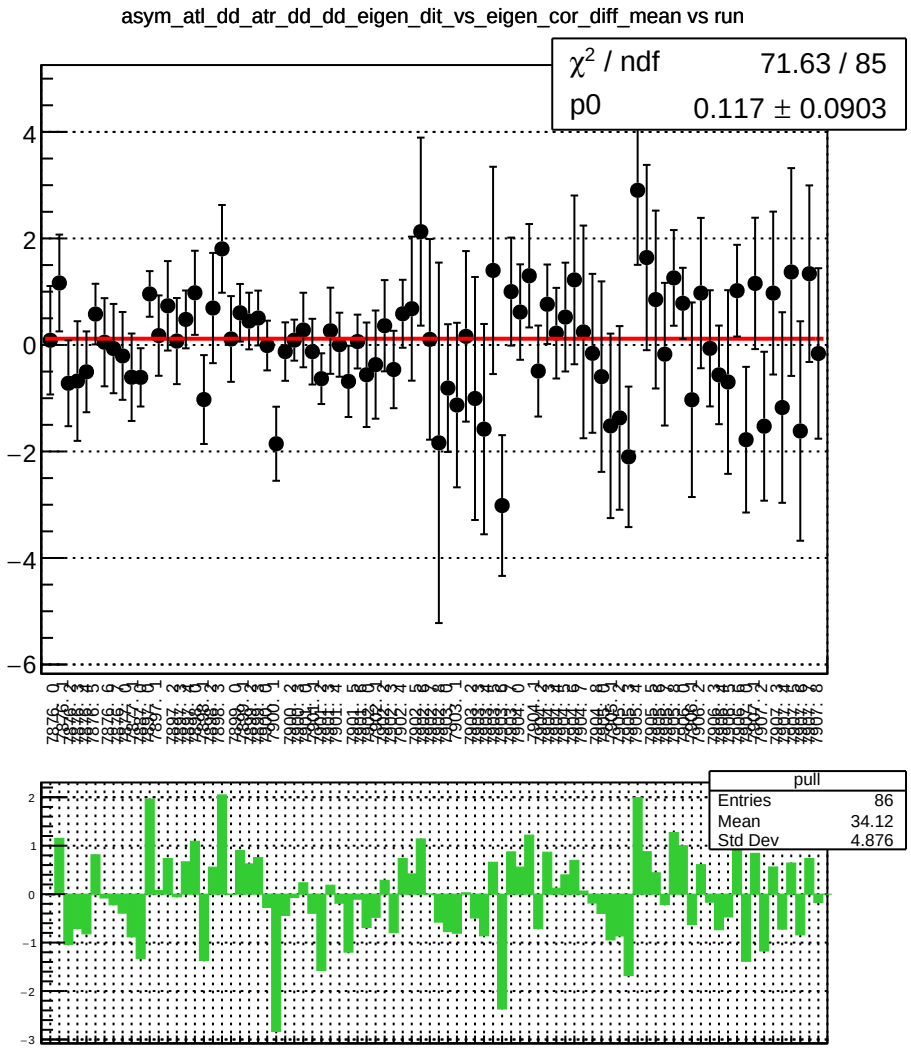

pull1D
Entries 86
Mean 0.03071
Std Dev 0.9798

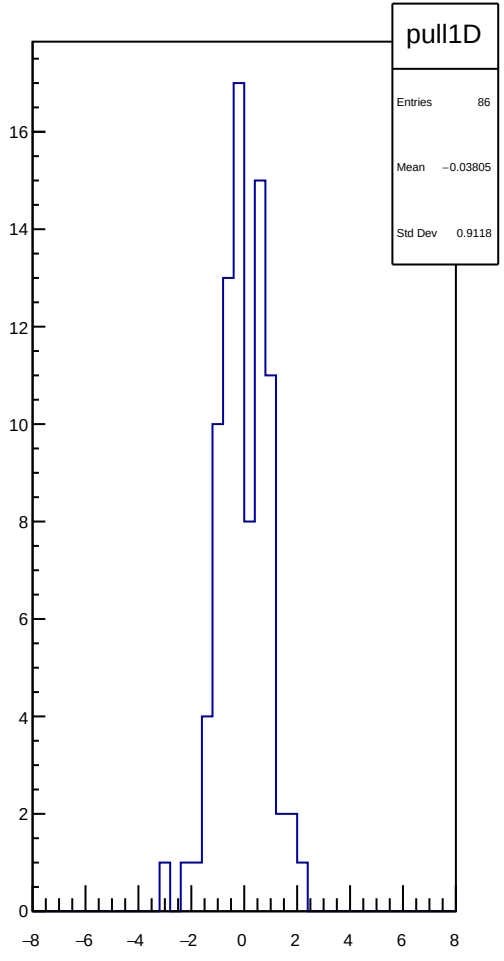

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.264e+04 / 85
p0 0.01053 ± 8.339e–06
0.018
0.016
0.014
0.012
0.01
0.008

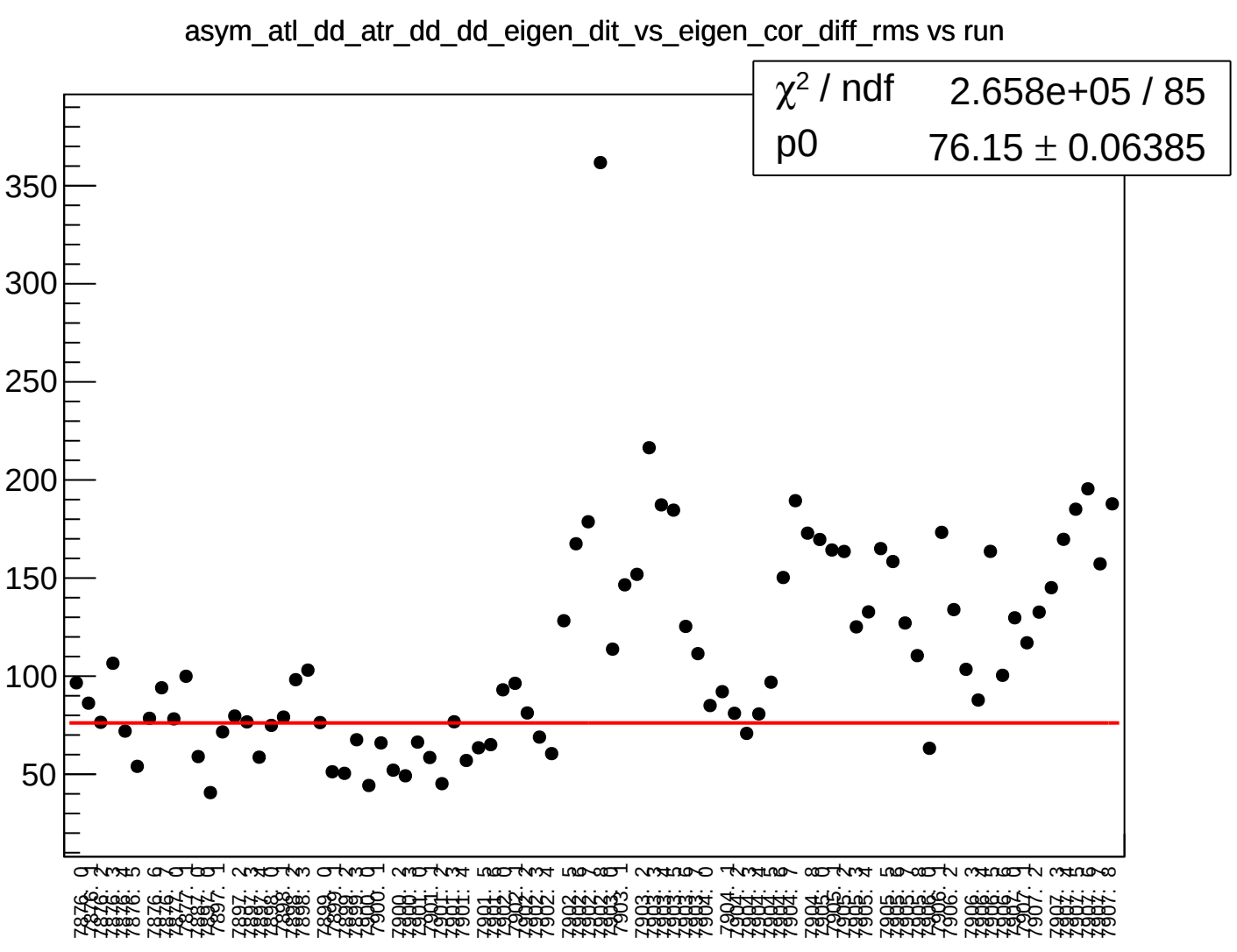

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.63 / 85
p0 0.117 ± 0.0903
pull
Entries 86
Mean 34.12
Std Dev 4.876

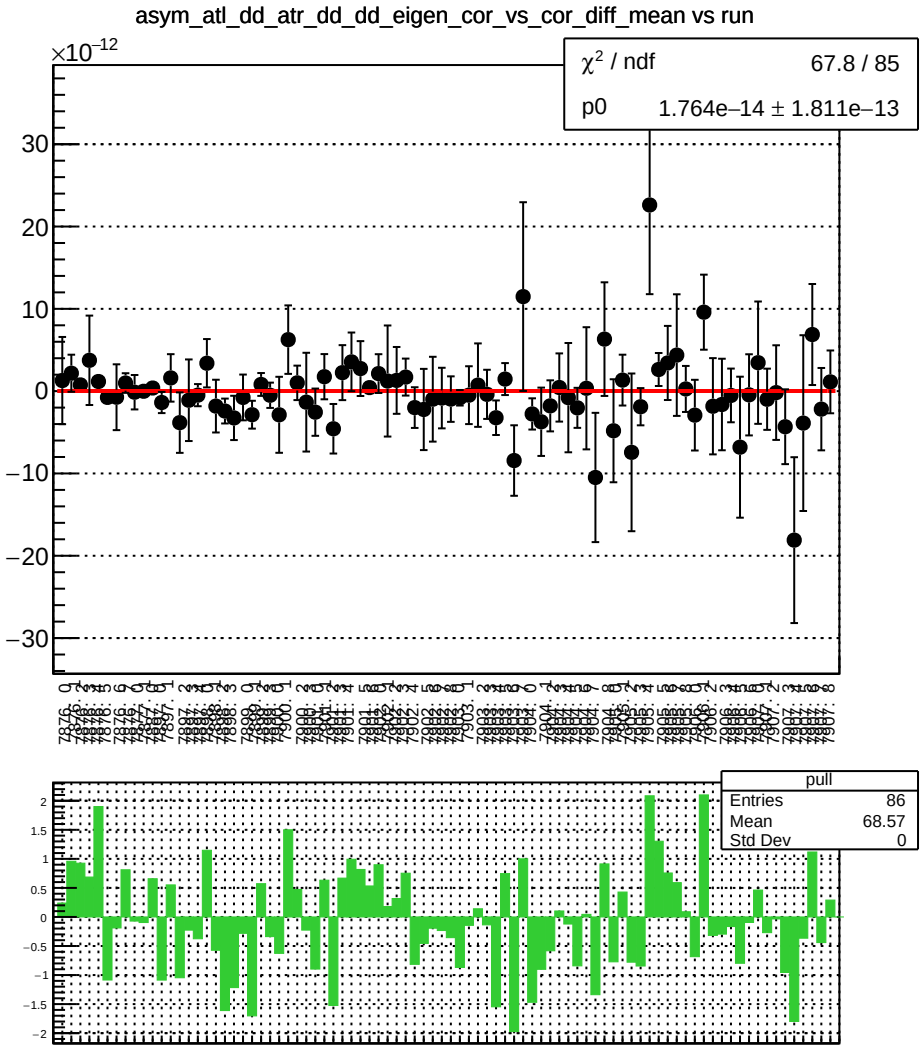

pull1D
Entries 86
Mean −0.03805
Std Dev 0.9118

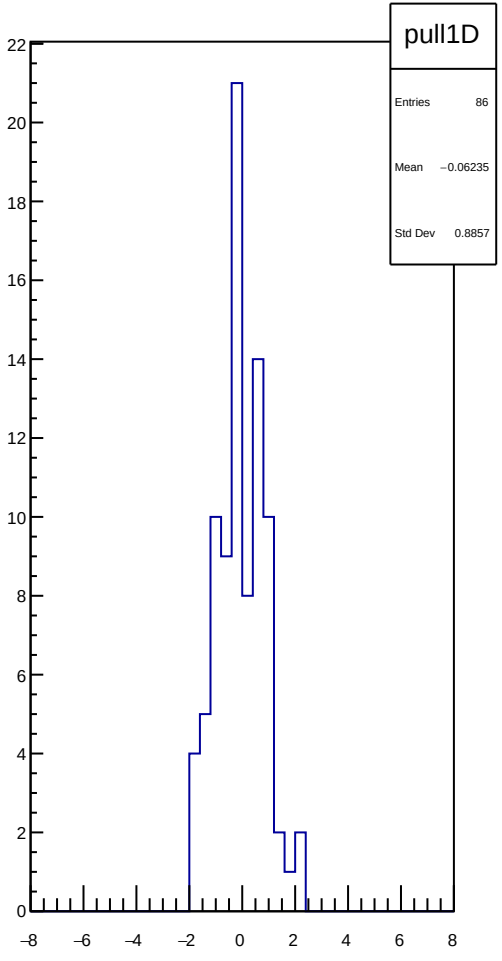

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.658e+05 / 85
p0 76.15 ± 0.06385
350
300
250
200
150
100
50

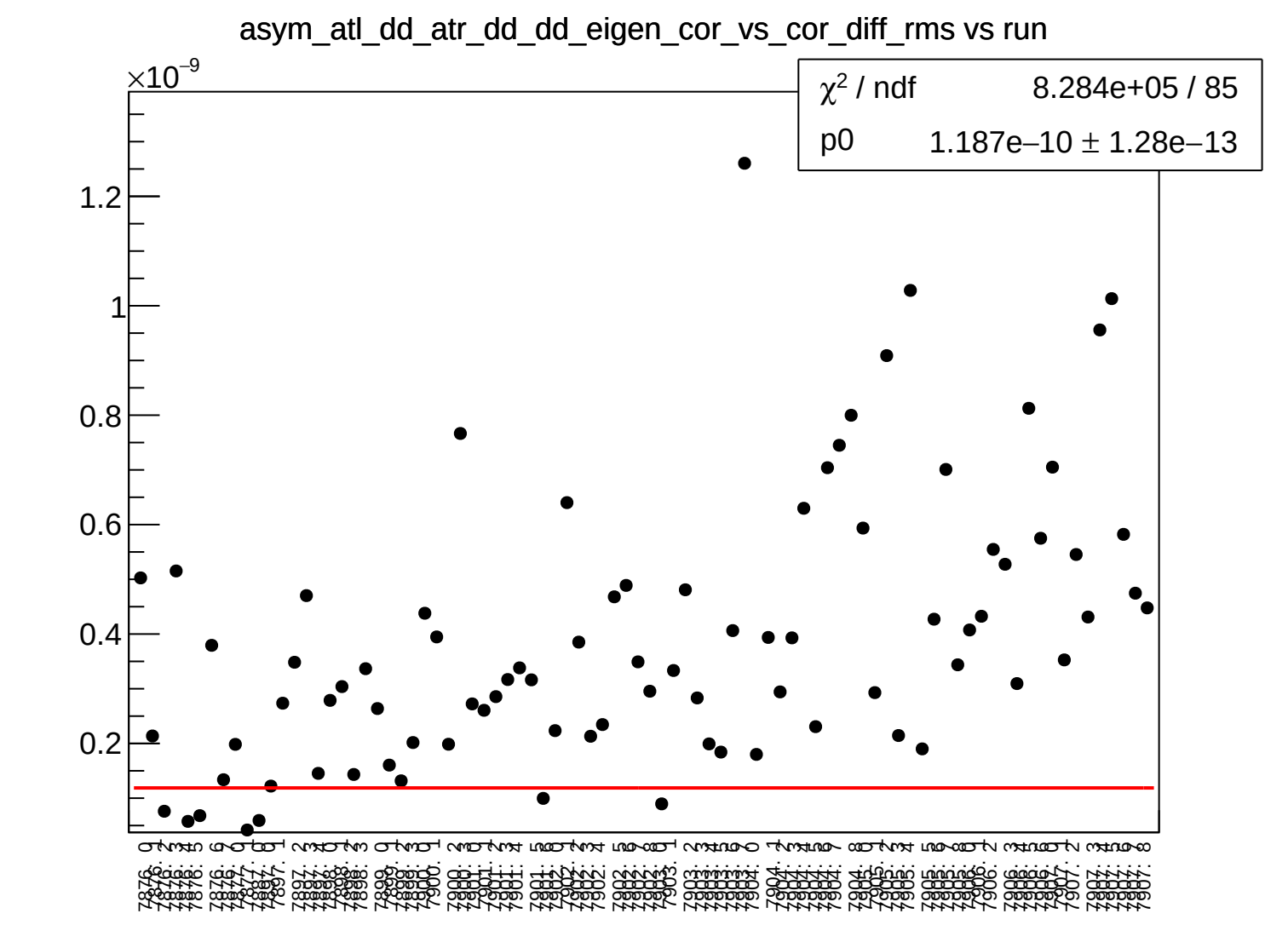

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.63 / 85
p0 0.117 ± 0.0903
pull
Entries 86
Mean 34.12
Std Dev 4.876

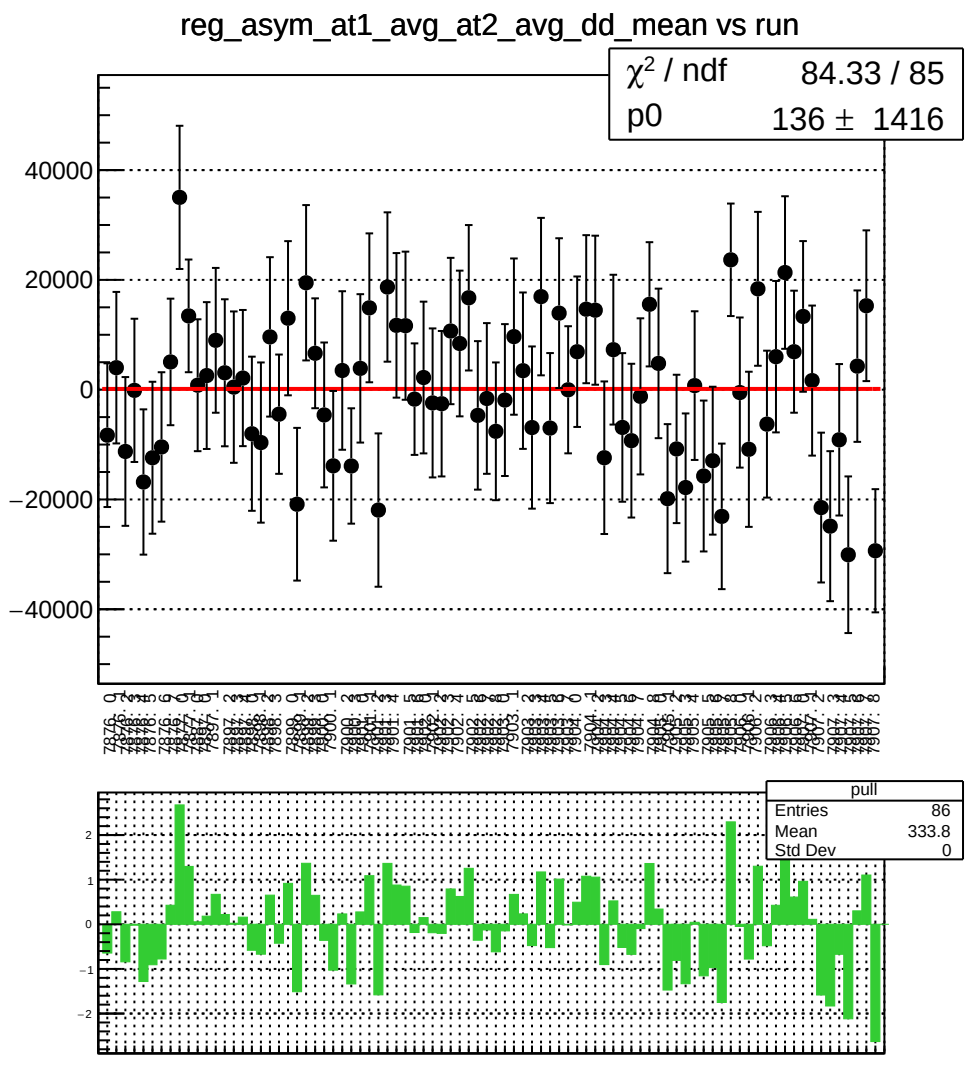

pull1D
Entries 86
Mean −0.03805
Std Dev 0.9118

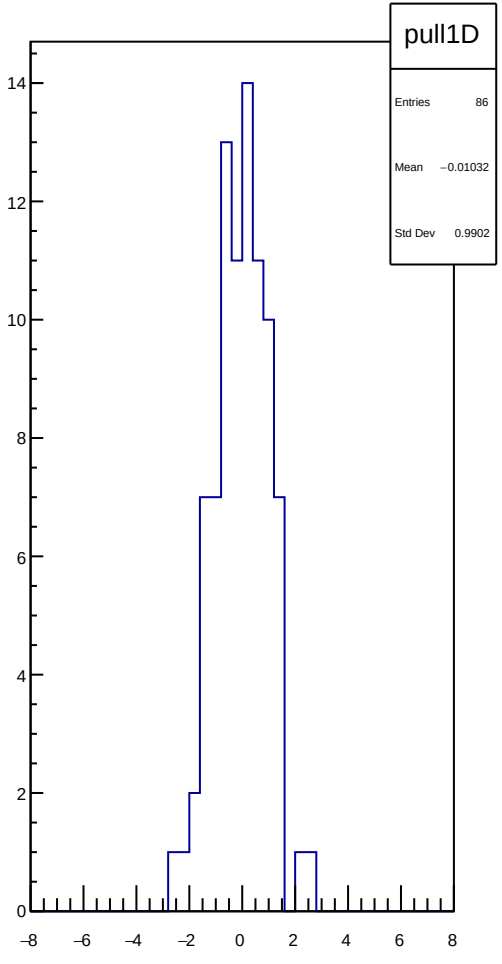

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.658e+05 / 85
p0 76.15 ± 0.06385
350
300
250
200
150
100
50

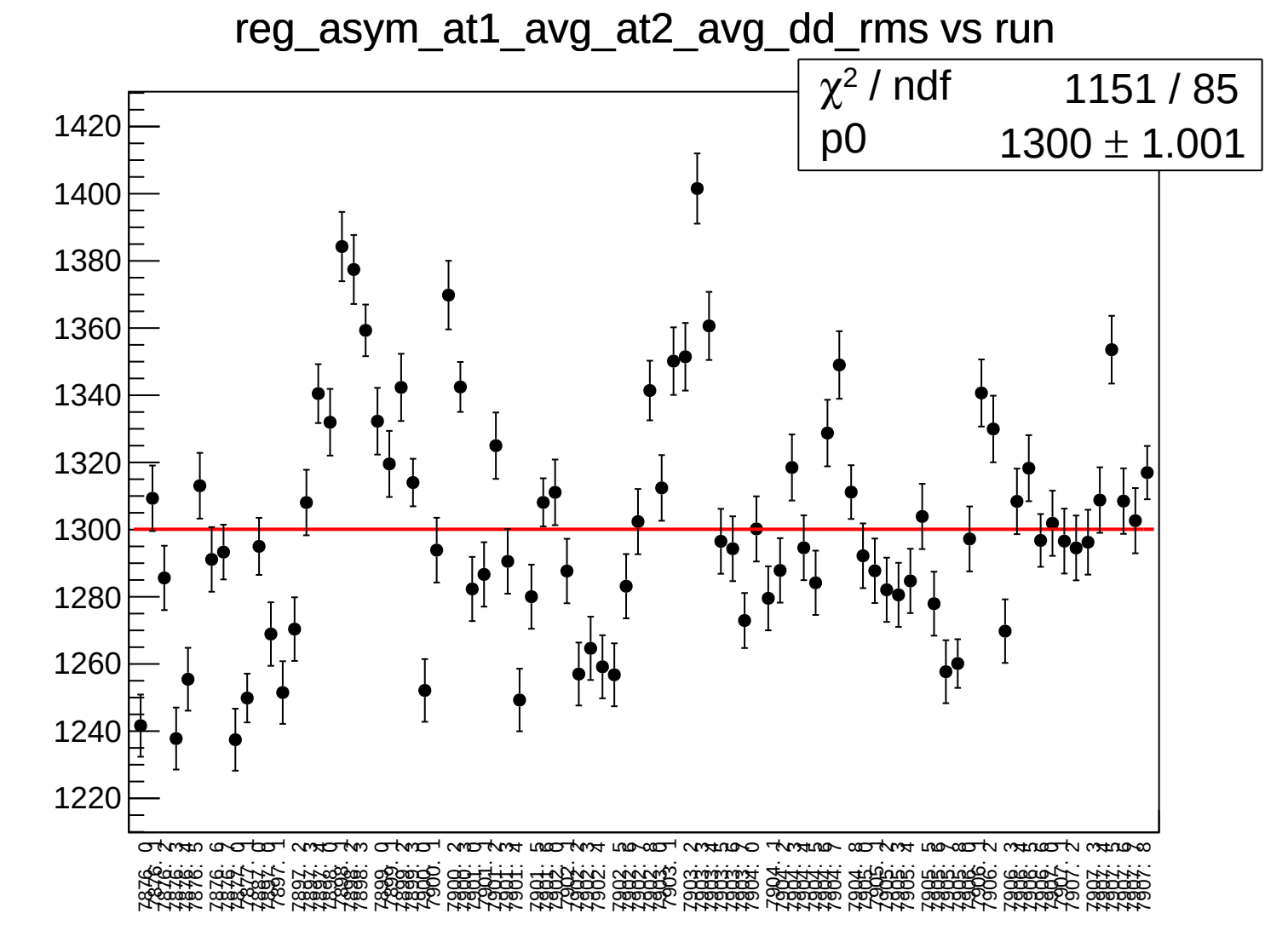

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.8 / 85
p0 1.764e−14 ± 1.811e−13
pull
Entries 86
Mean 68.57
Std Dev 0

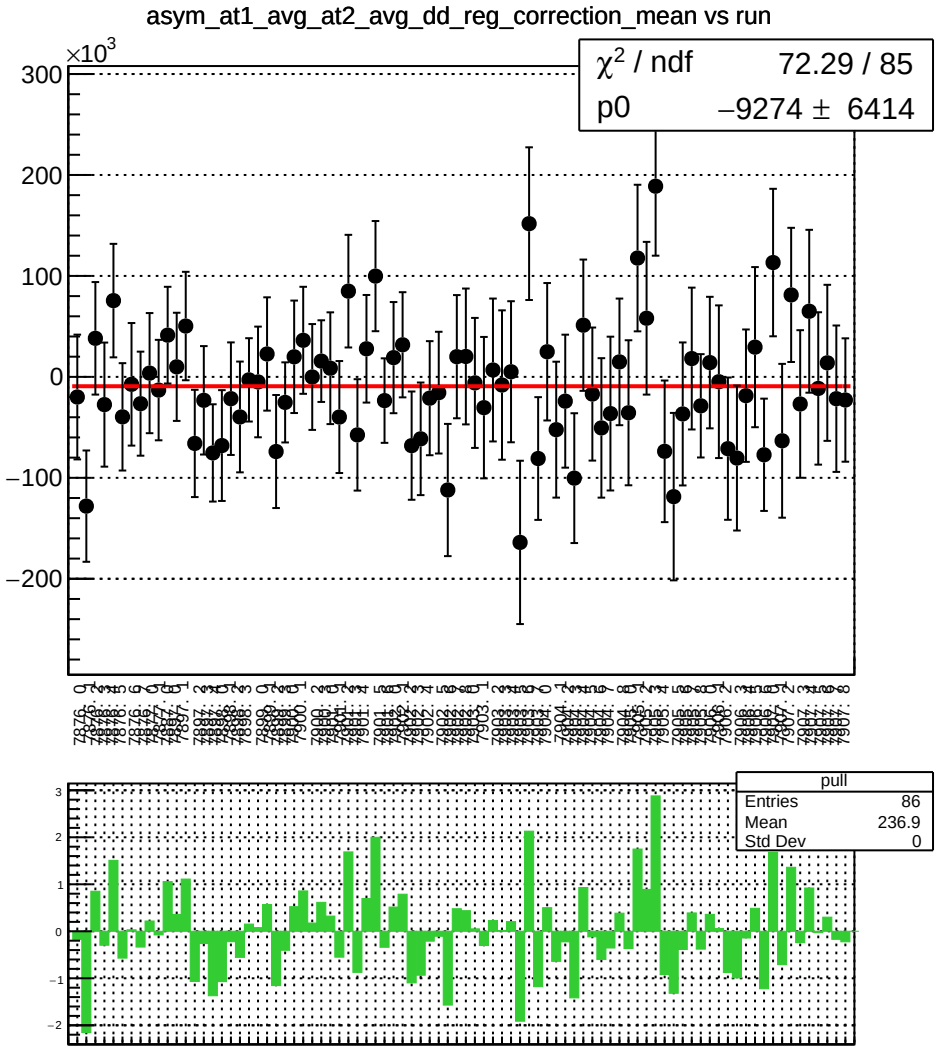

pull1D
Entries 86
Mean −0.06235
Std Dev 0.8857

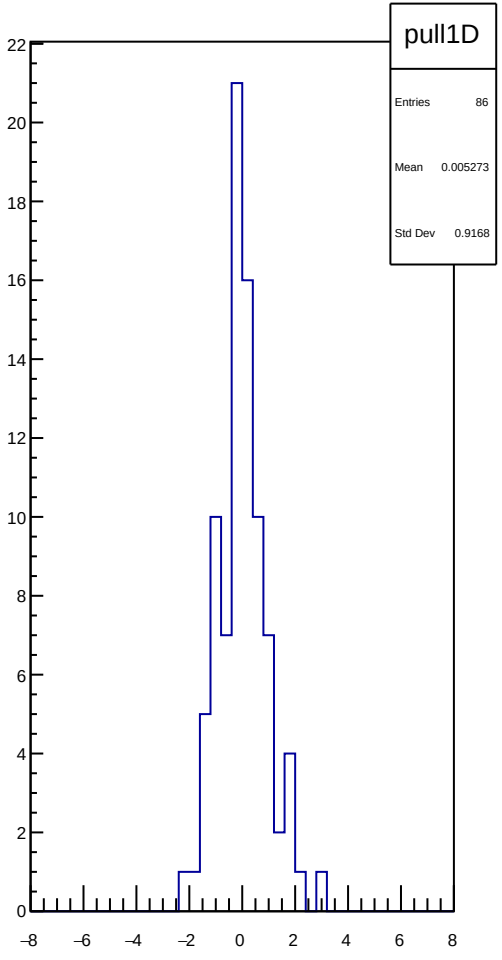

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.284e+05 / 85
p0 1.187e−10 ± 1.28e−13
1.2
1
0.8
0.6
0.4
0.2

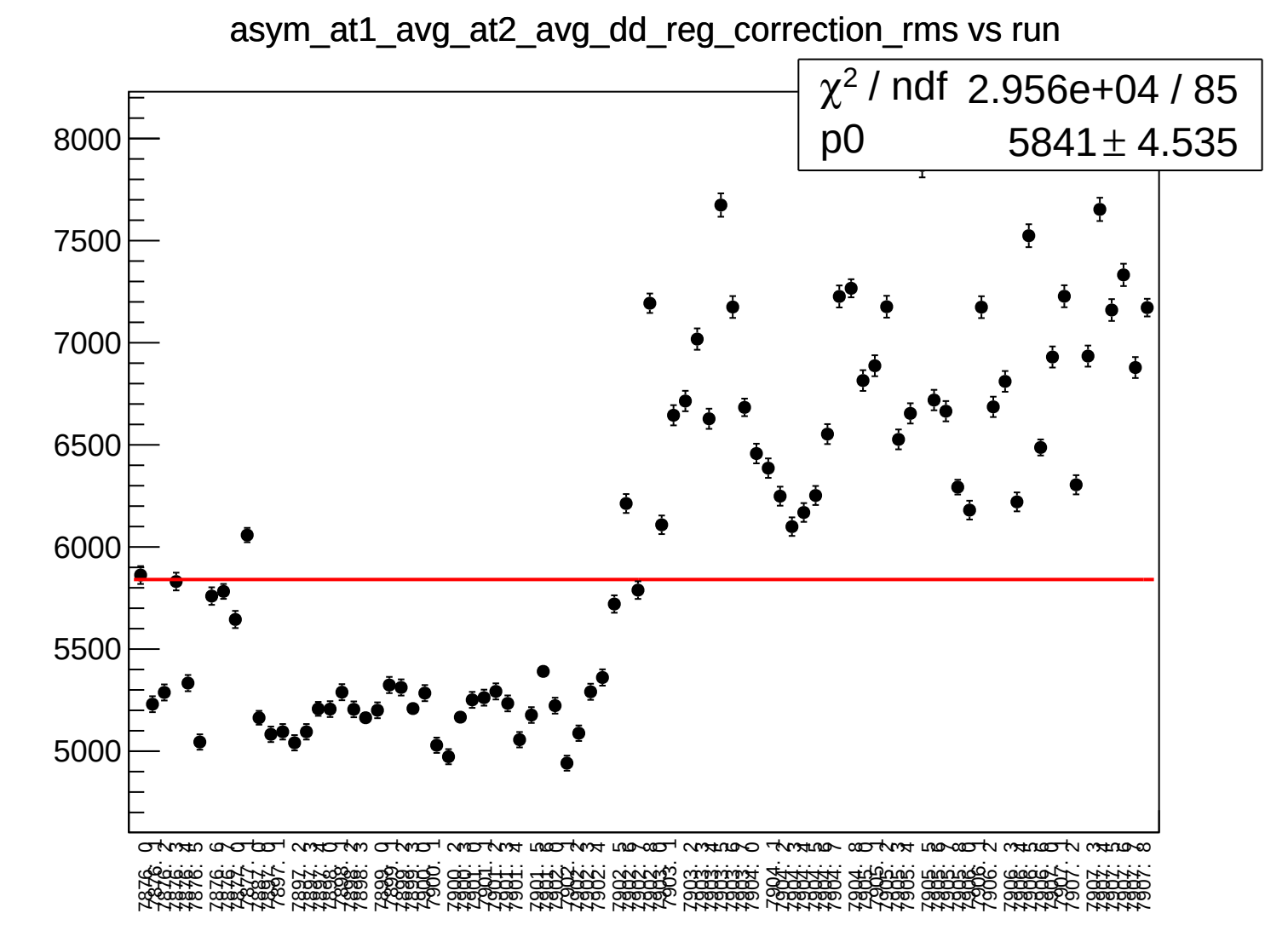

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 84.33 / 85
p0 136 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 333.8
Std Dev 0
2
1
0
−1
−2

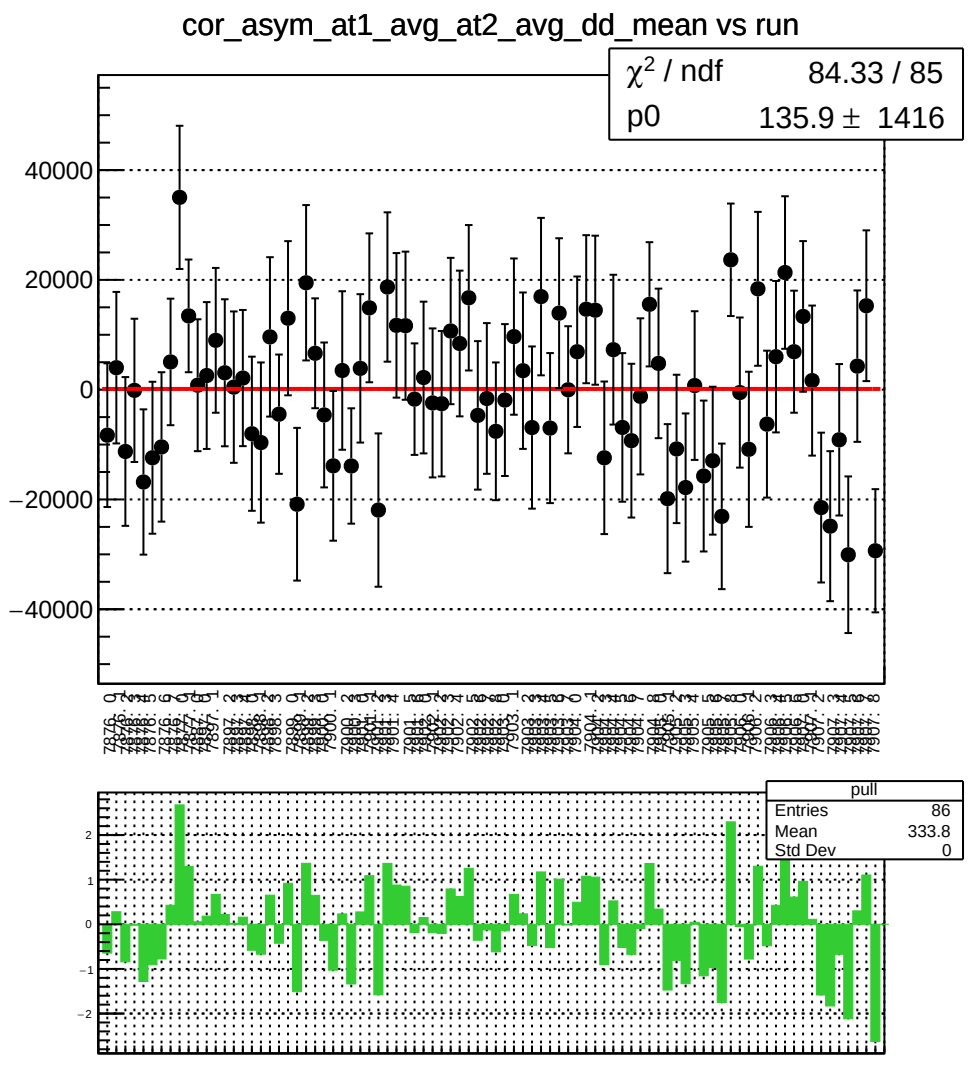

pull1D
Entries 86
Mean −0.01032
Std Dev 0.9902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

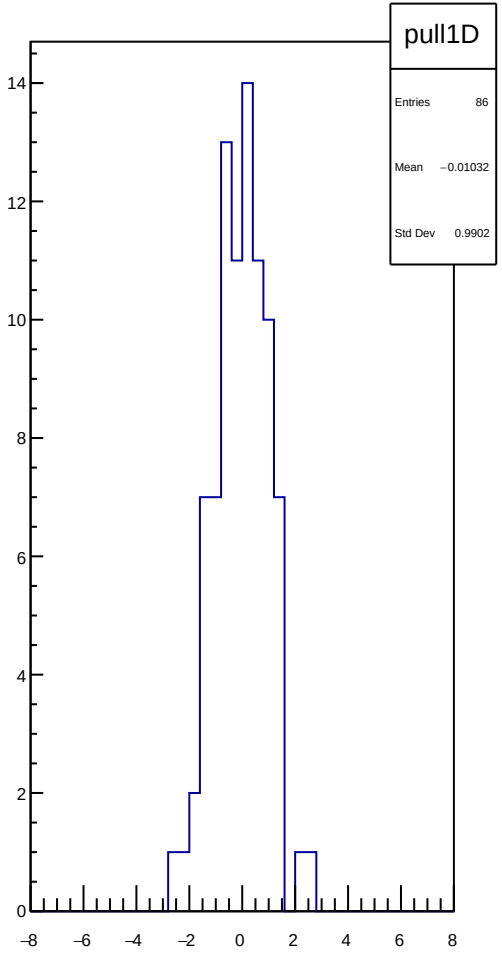

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1151 / 85
p0 1300 ± 1.001
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

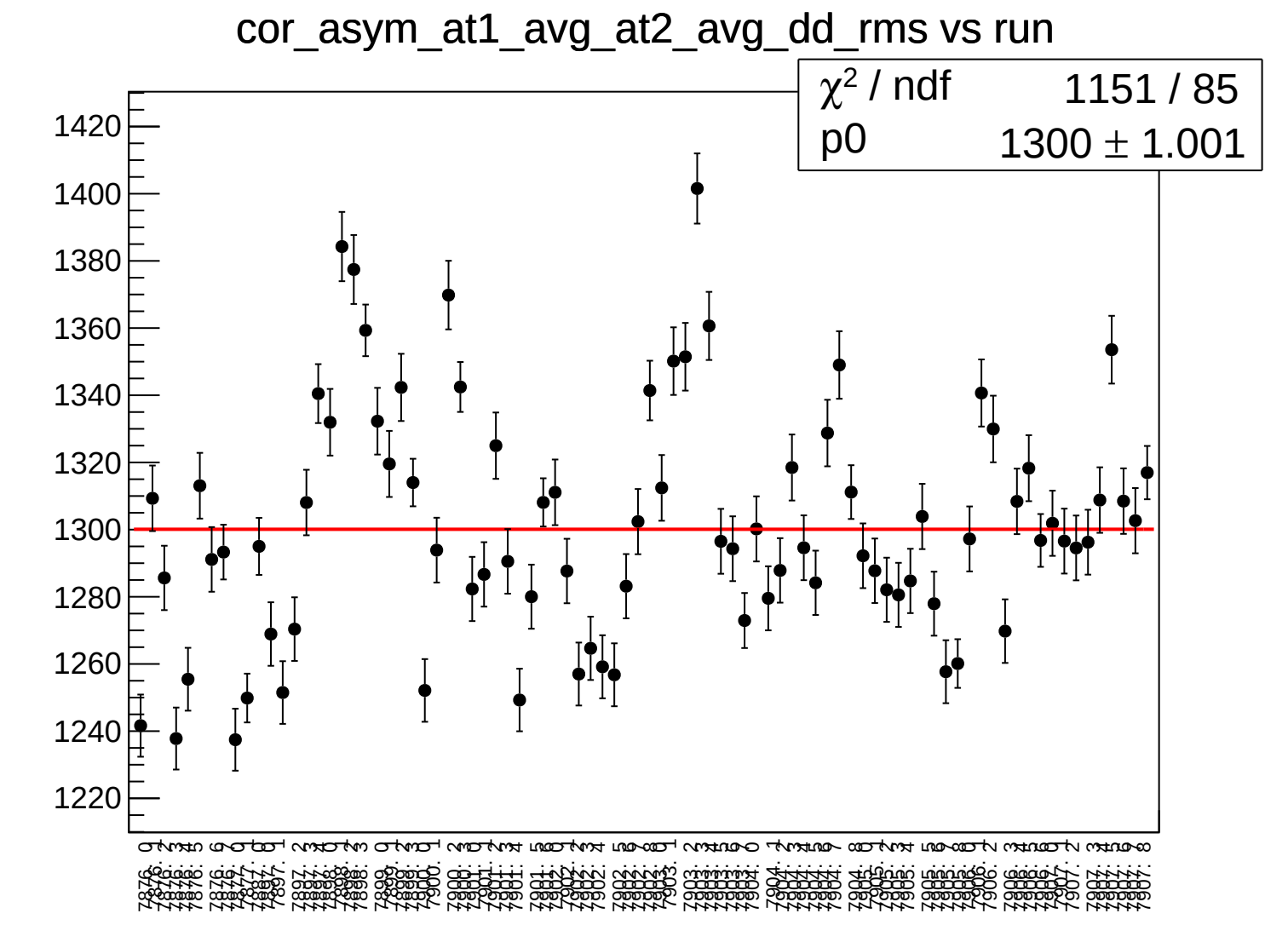

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 72.29 / 85
p0 −9274 ± 6414
pull
Entries 86
Mean 236.9
Std Dev 0

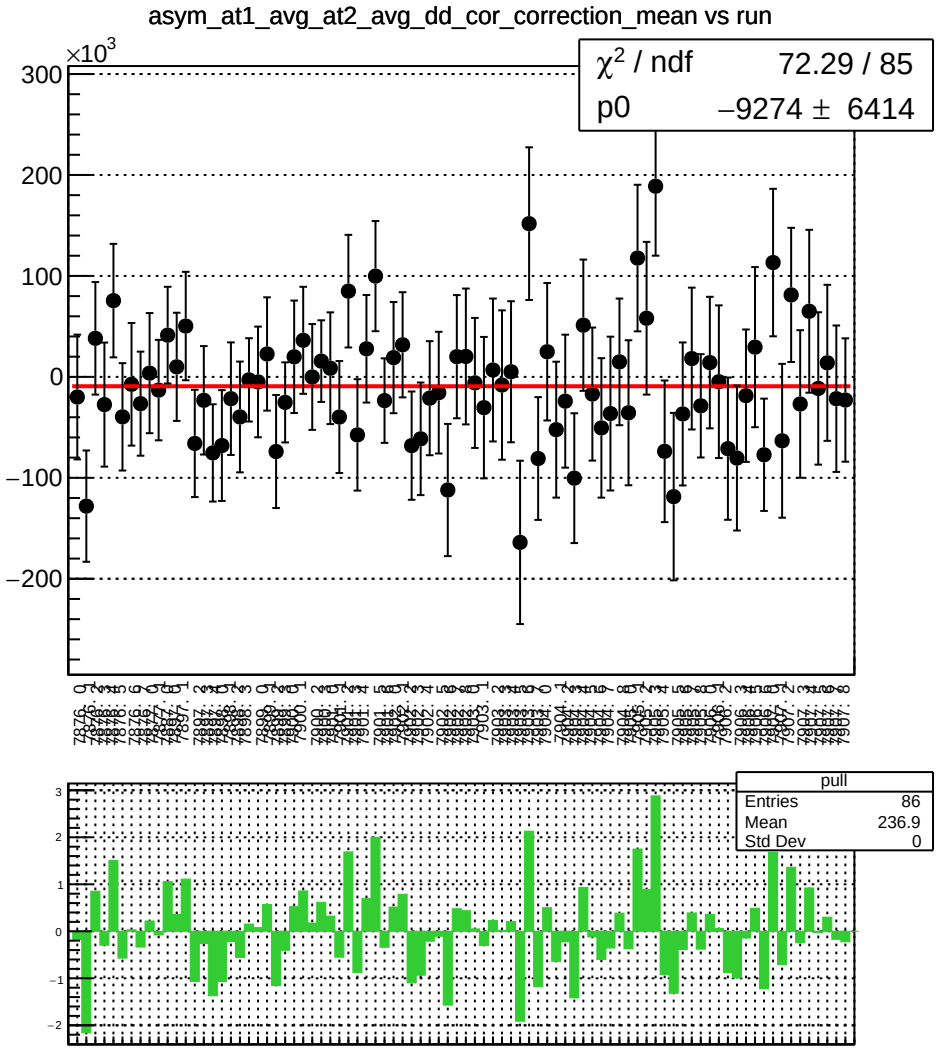

pull1D
Entries 86
Mean 0.005273
Std Dev 0.9168

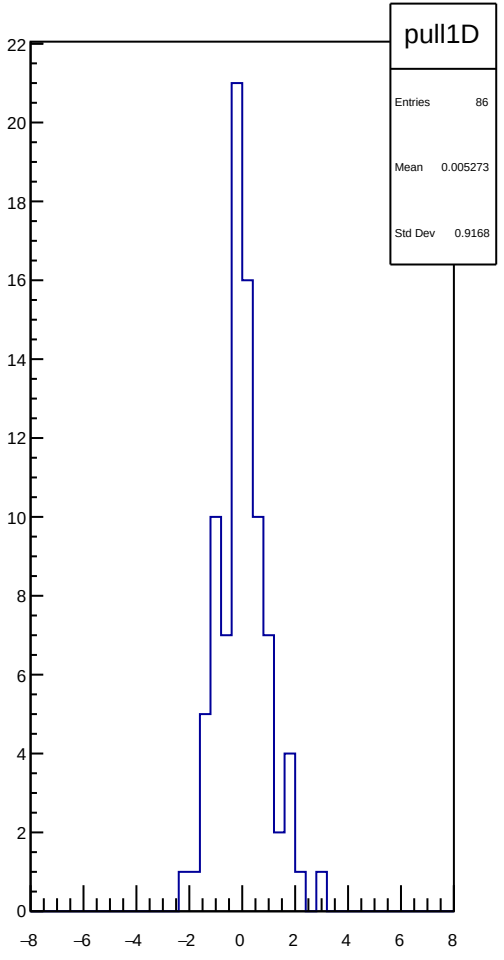

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ^2 / ndf 2.956e+04 / 85
p0 5841 ± 4.535
8000
7500
7000
6500
6000
5500
5000

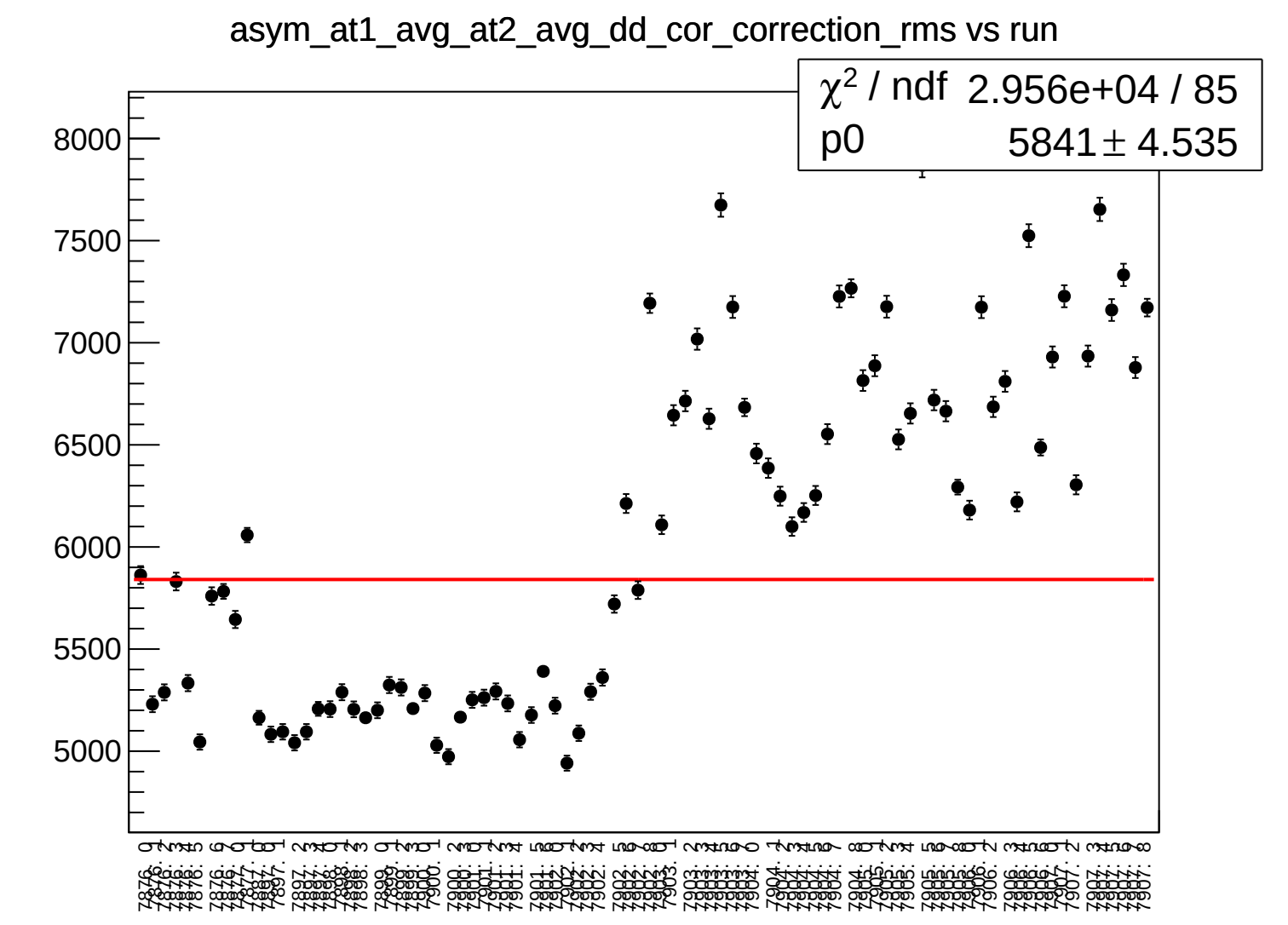

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 84.33 / 85
p0 135.9 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 333.8
Std Dev 0
2
1
0
−1
−2

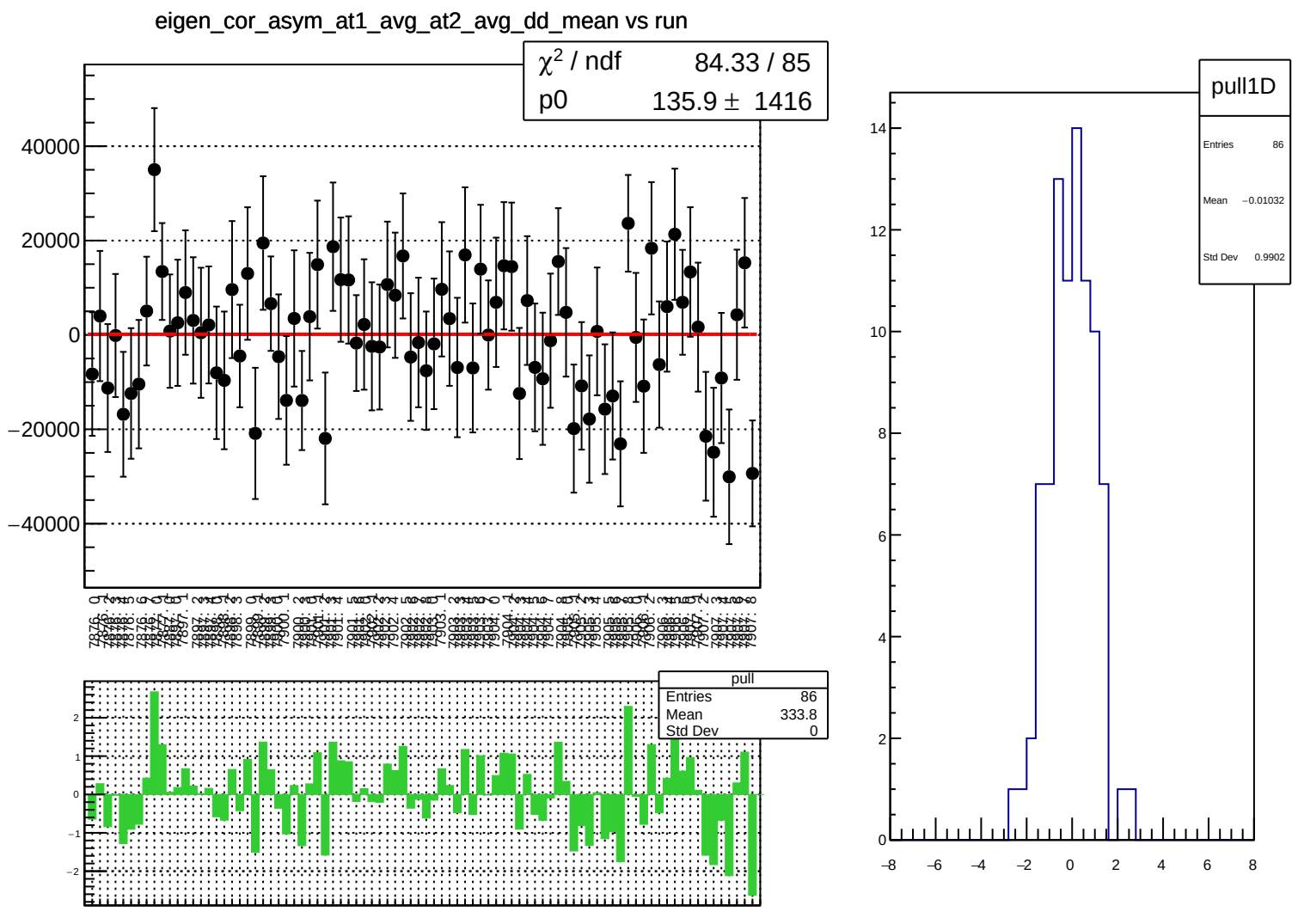

pull1D
Entries 86
Mean −0.01032
Std Dev 0.9902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

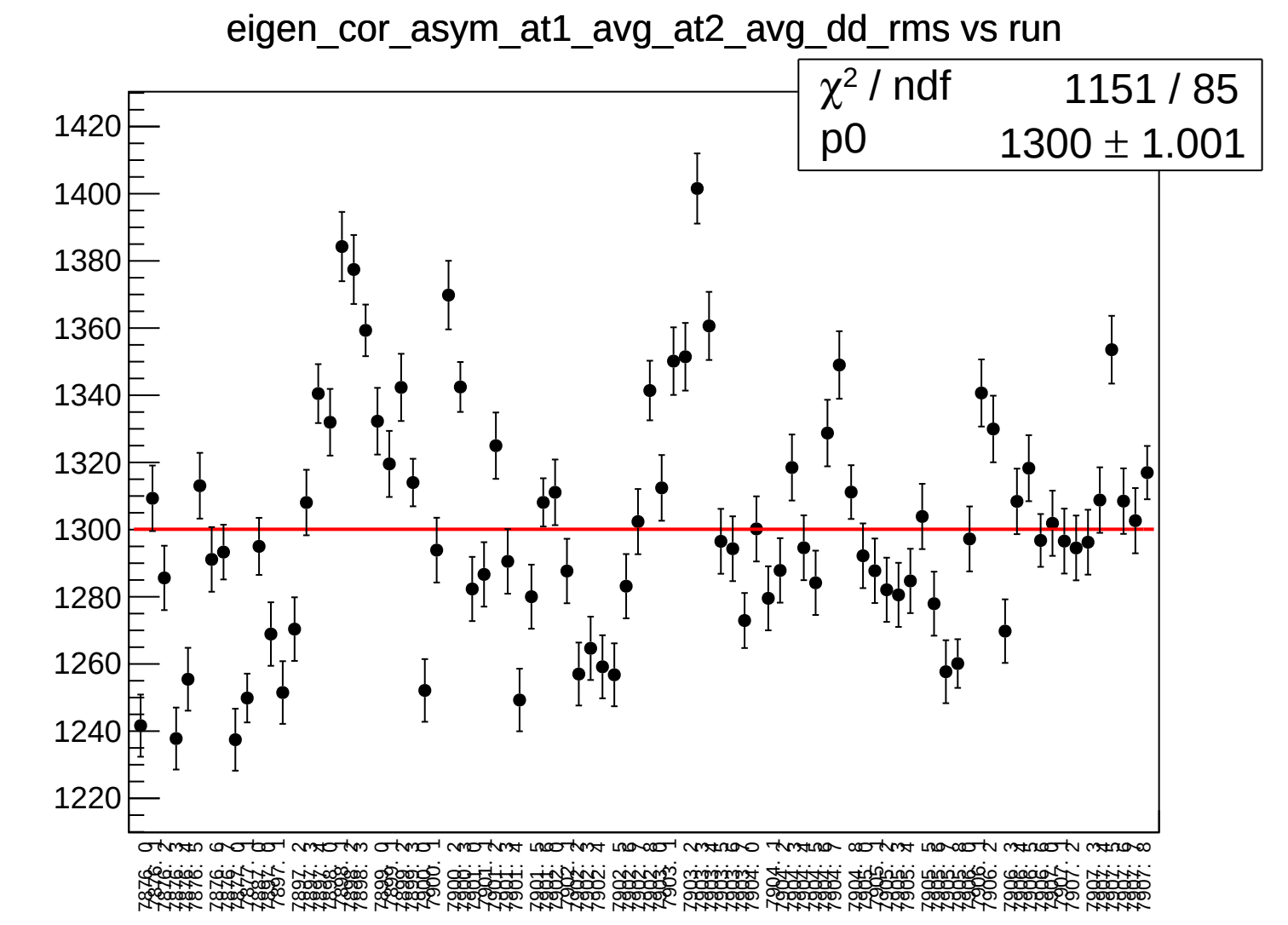

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1151 / 85
p0 1300 ± 1.001
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

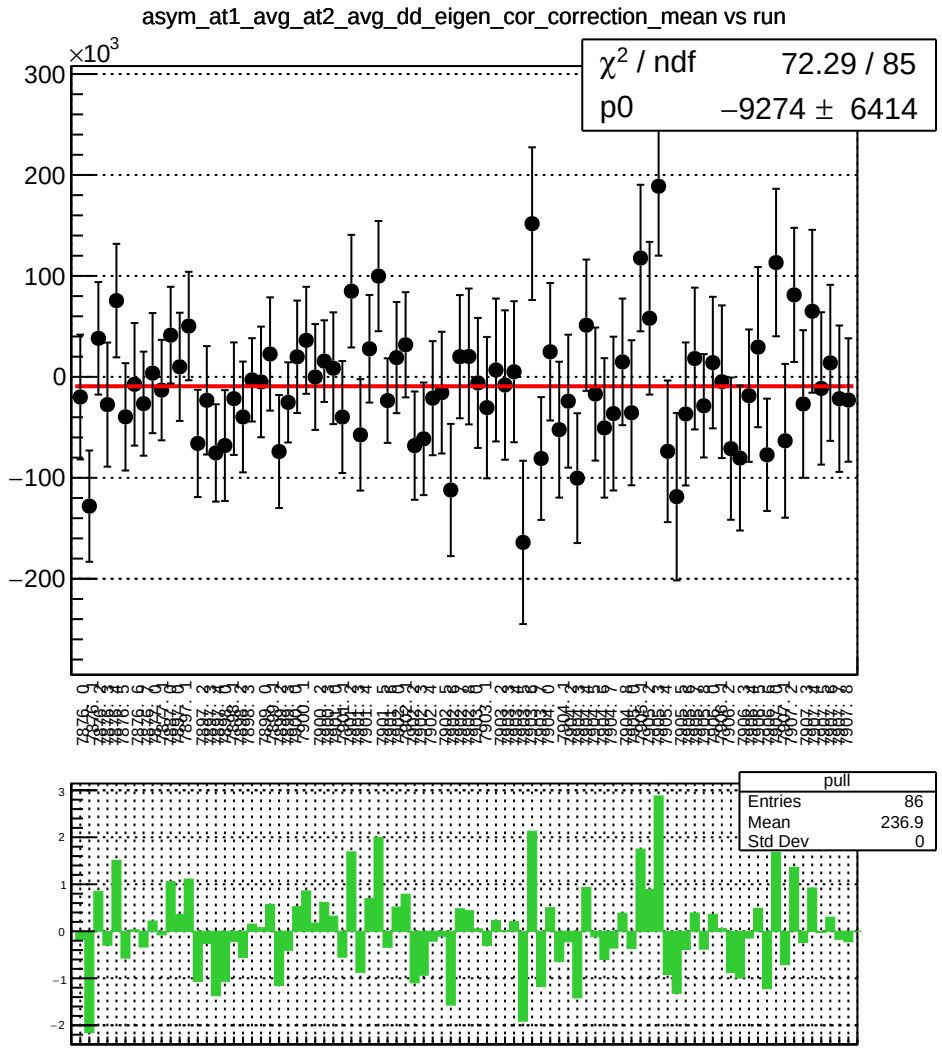

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 72.29 / 85
p0 −9274 ± 6414
pull
Entries 86
Mean 236.9
Std Dev 0

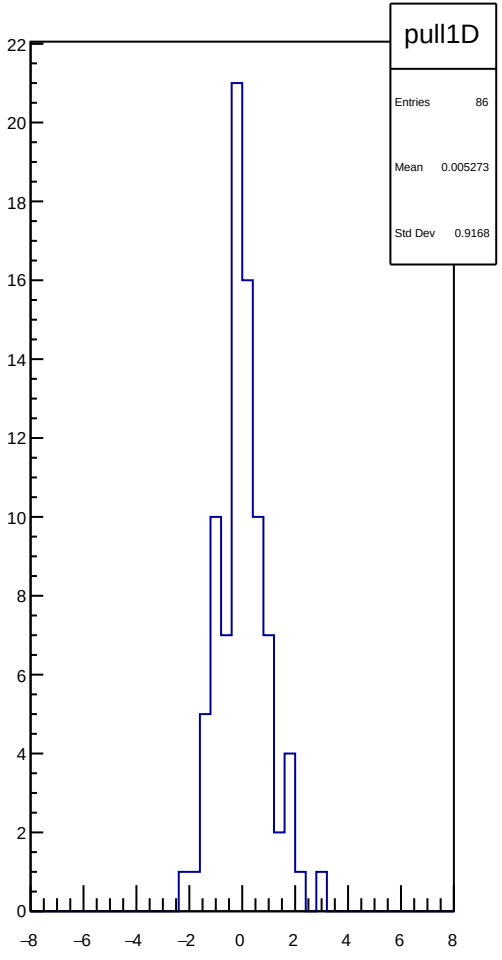

pull1D
Entries 86
Mean 0.005273
Std Dev 0.9168

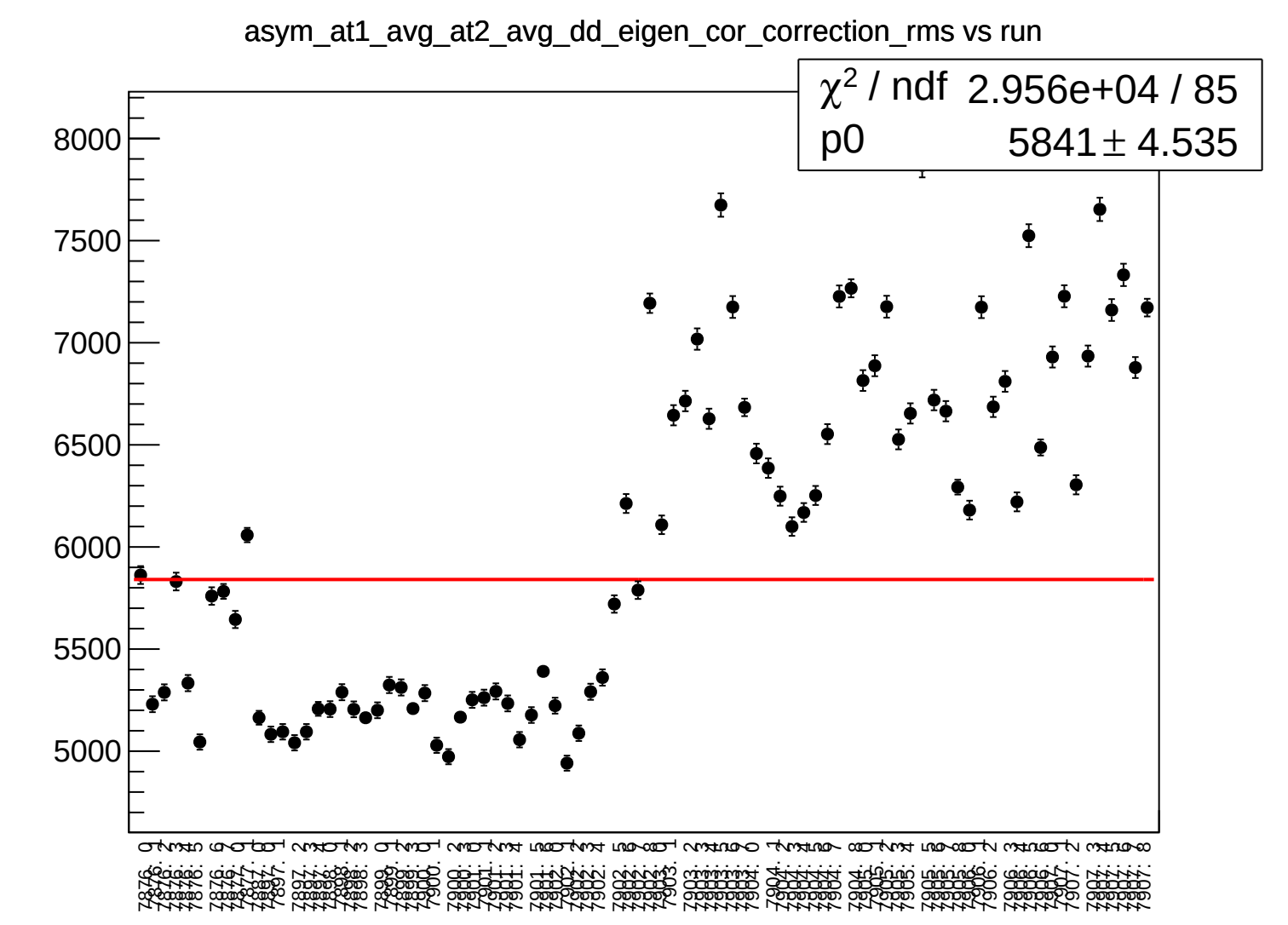

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 2.956e+04 / 85
p0 5841 ± 4.535
8000
7500
7000
6500
6000
5500
5000

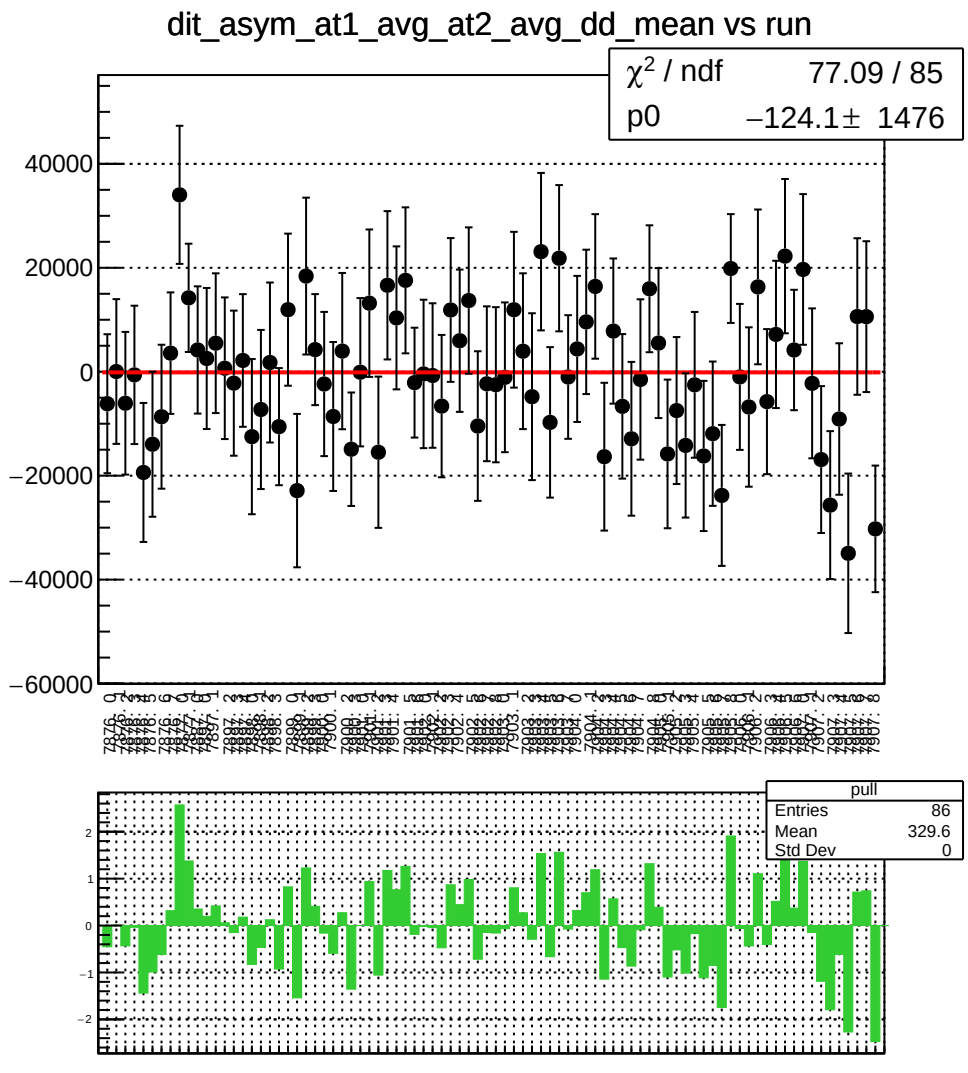

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 84.33 / 85
p0 135.9 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 333.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01032
Std Dev 0.9902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

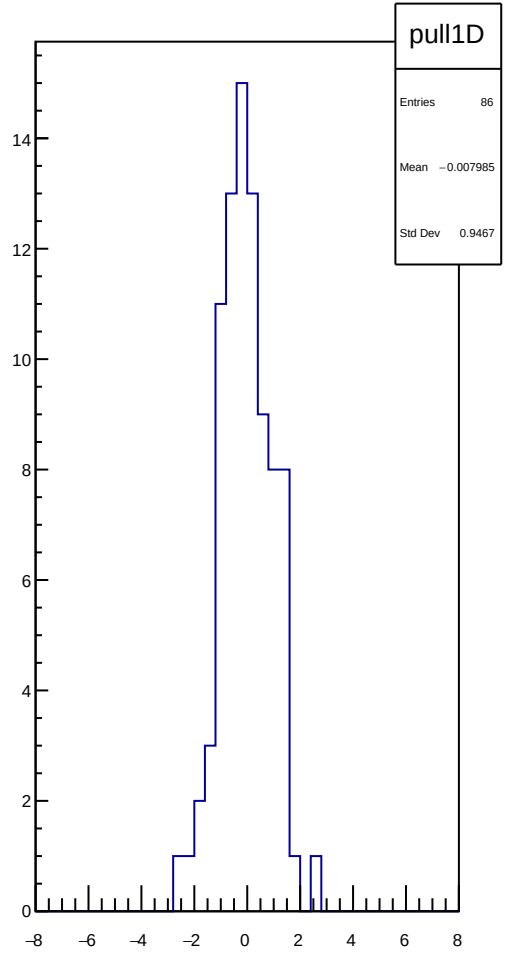

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1151 / 85
p0 1300 ± 1.001
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

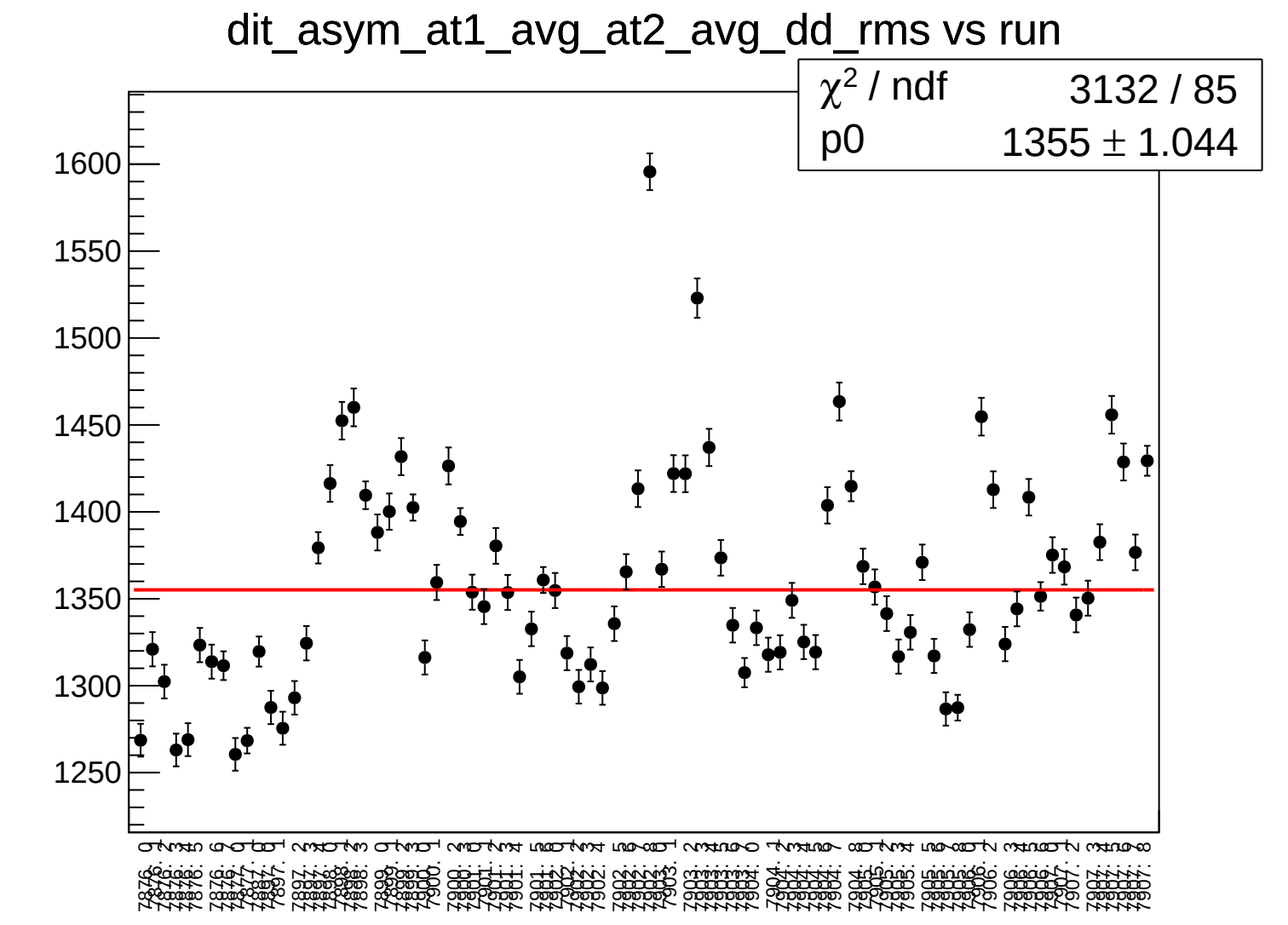

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.29 / 85
p0 −9274 ± 6414
300
200
100
0
−100
−200
pull
Entries 86
Mean 236.9
Std Dev 0
3
2
1
0
−1
−2

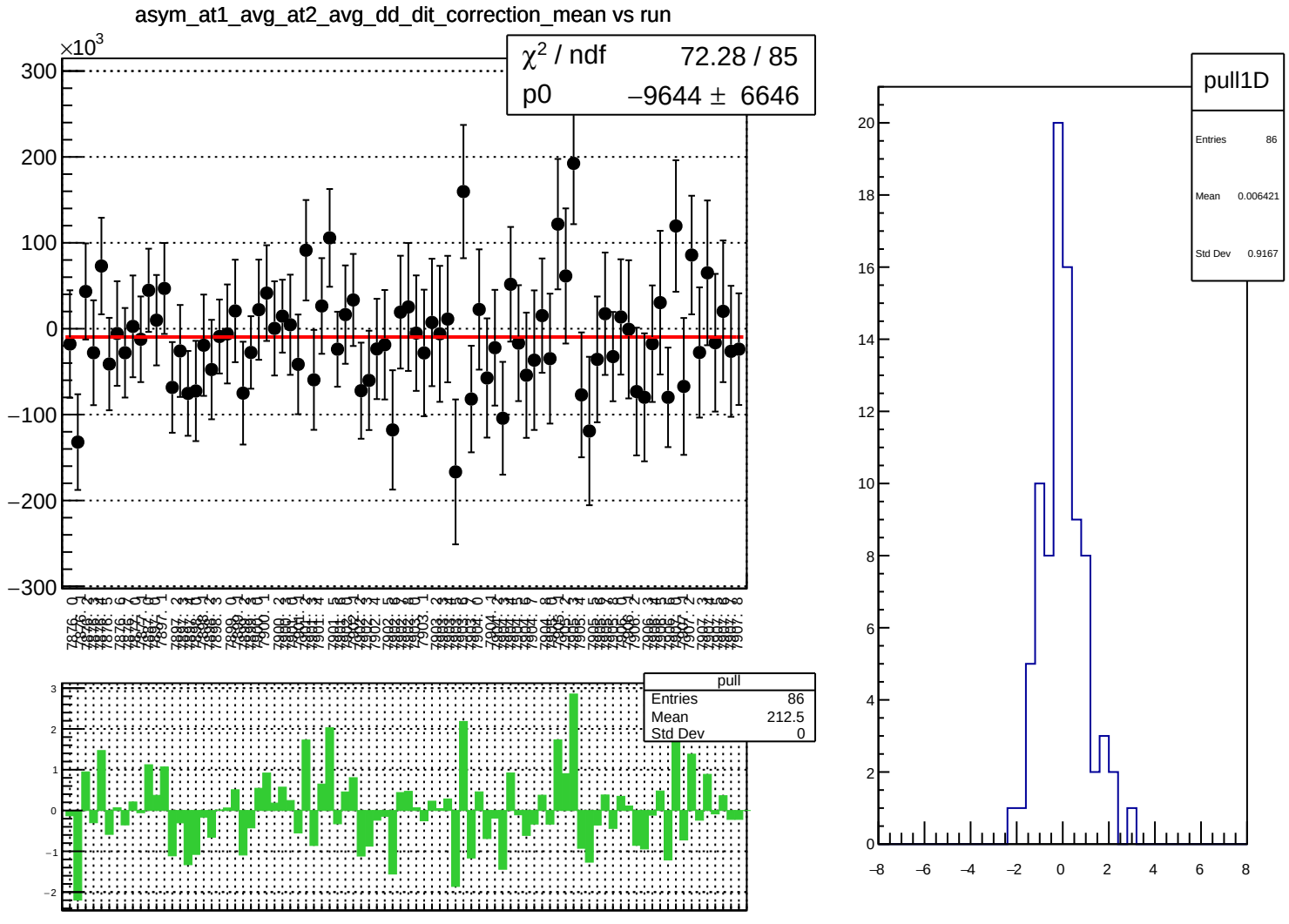

pull1D
Entries 86
Mean 0.005273
Std Dev 0.9168
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

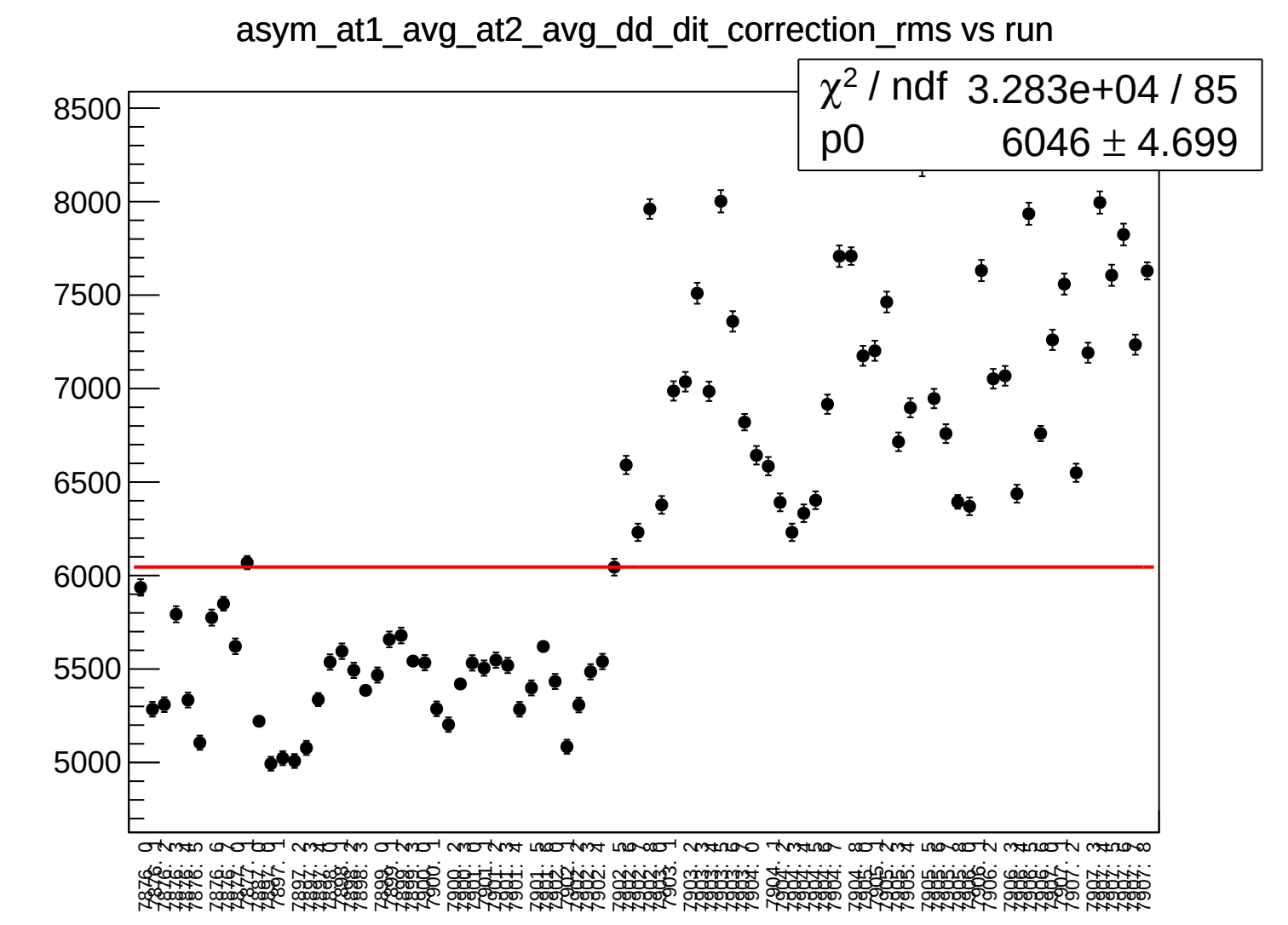

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.956e+04 / 85
p0 5841 ± 4.535
8000
7500
7000
6500
6000
5500
5000

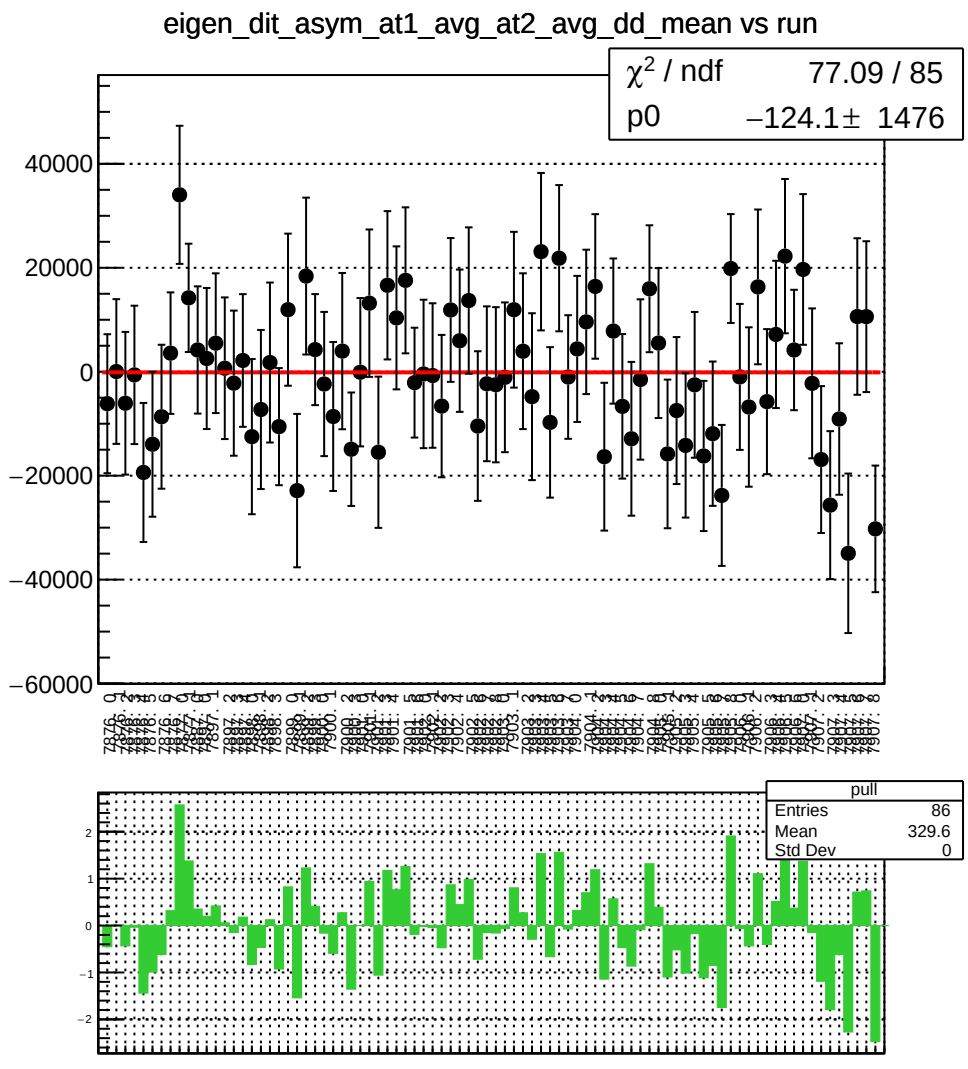

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 77.09 / 85
p0 −124.1± 1476
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 329.6
Std Dev 0
2
1
0
−1
−2

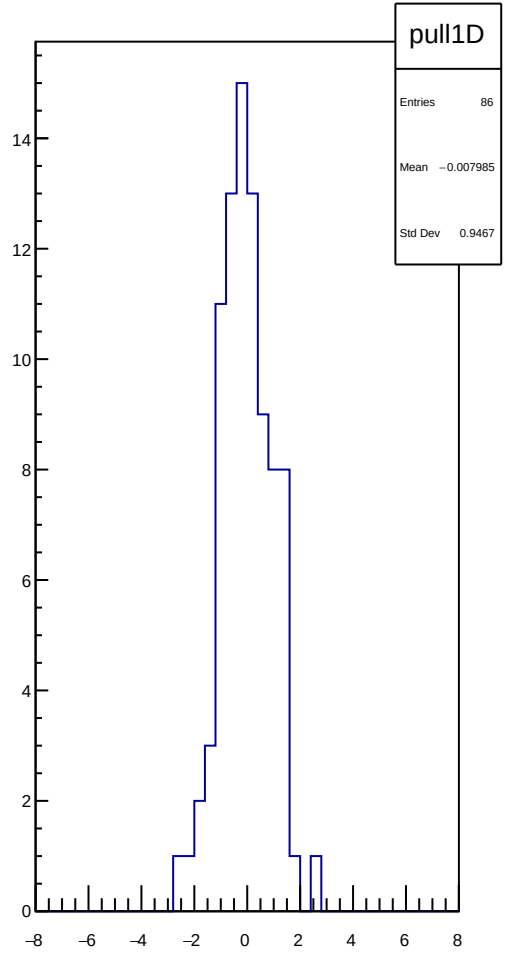

pull1D
Entries 86
Mean −0.007985
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

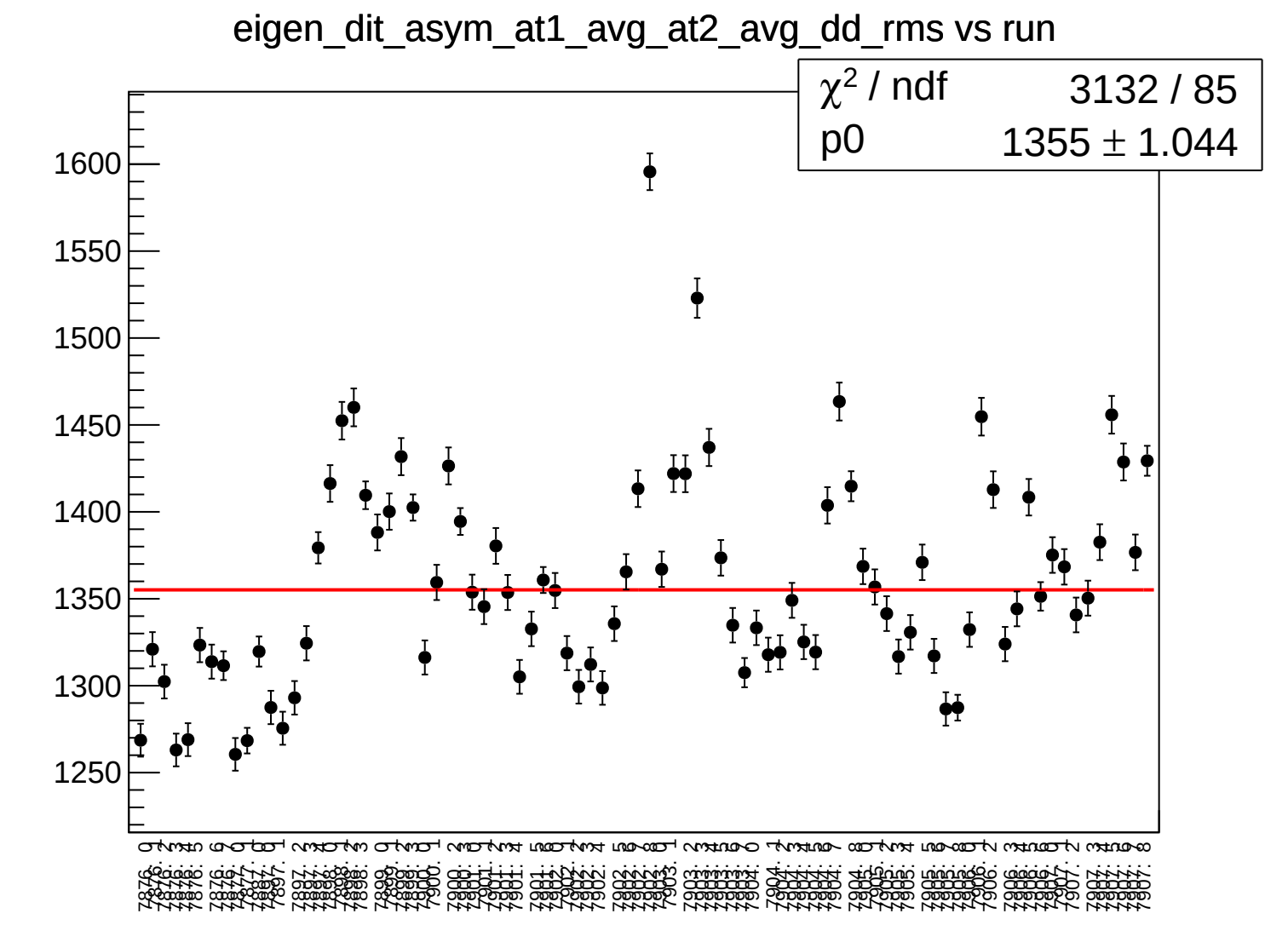

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3132 / 85
p0 1355 ± 1.044
1600
1550
1500
1450
1400
1350
1300
1250

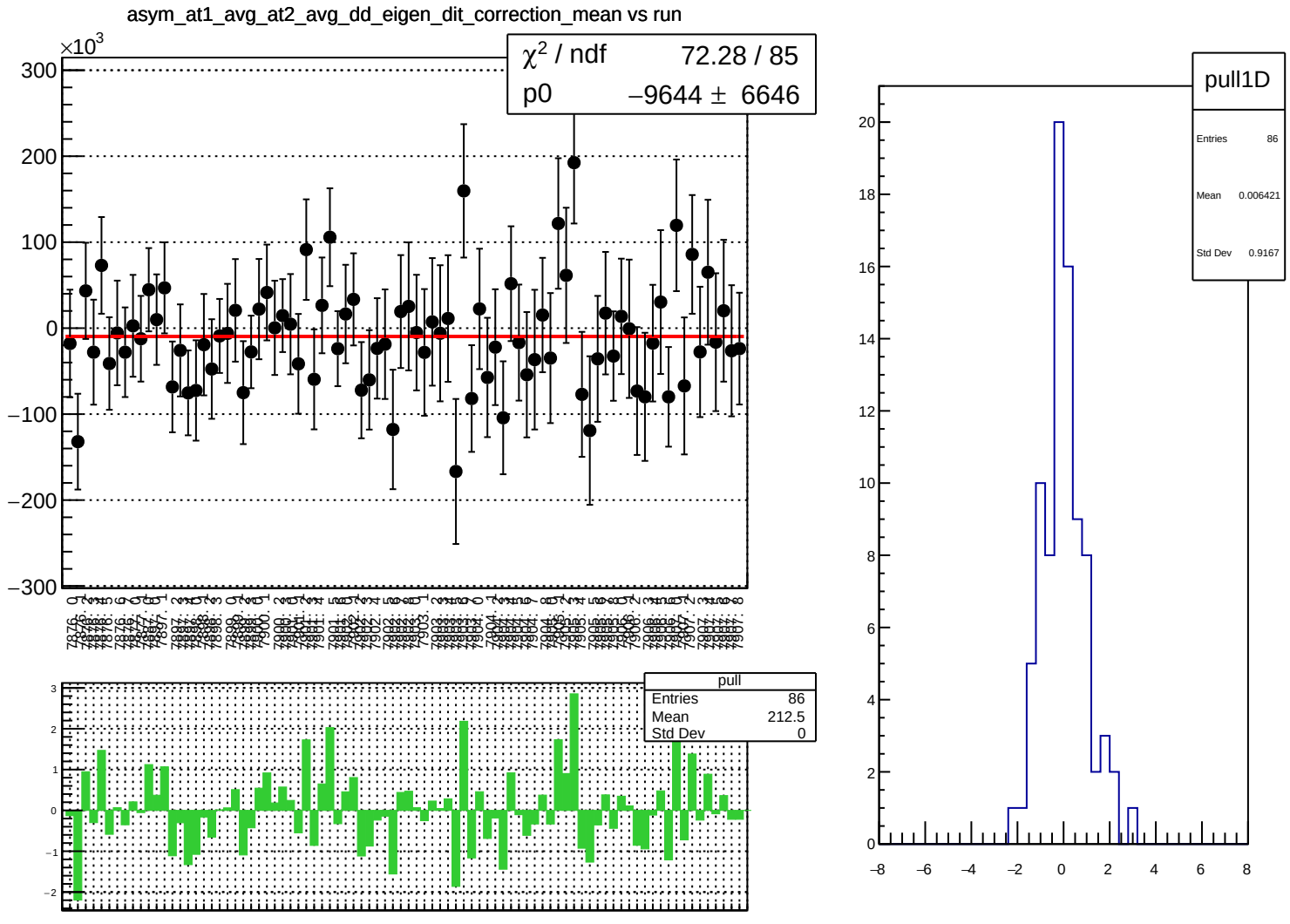

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 72.28 / 85
p0 −9644 ± 6646
pull
Entries 86
Mean 212.5
Std Dev 0
pull1D
Entries 86
Mean 0.006421
Std Dev 0.9167

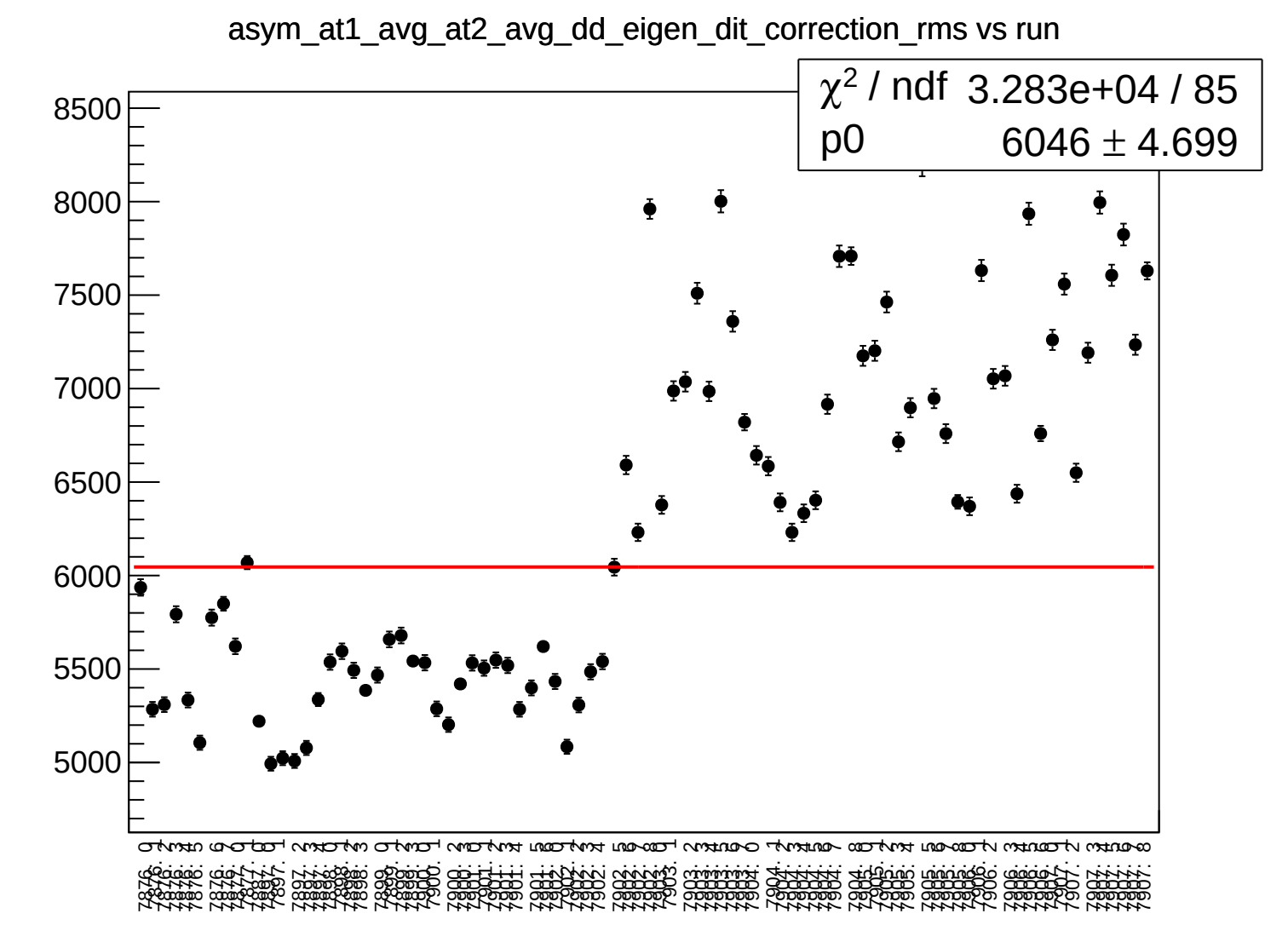

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3.283e+04 / 85
p0 6046 ± 4.699
8500
8000
7500
7000
6500
6000
5500
5000

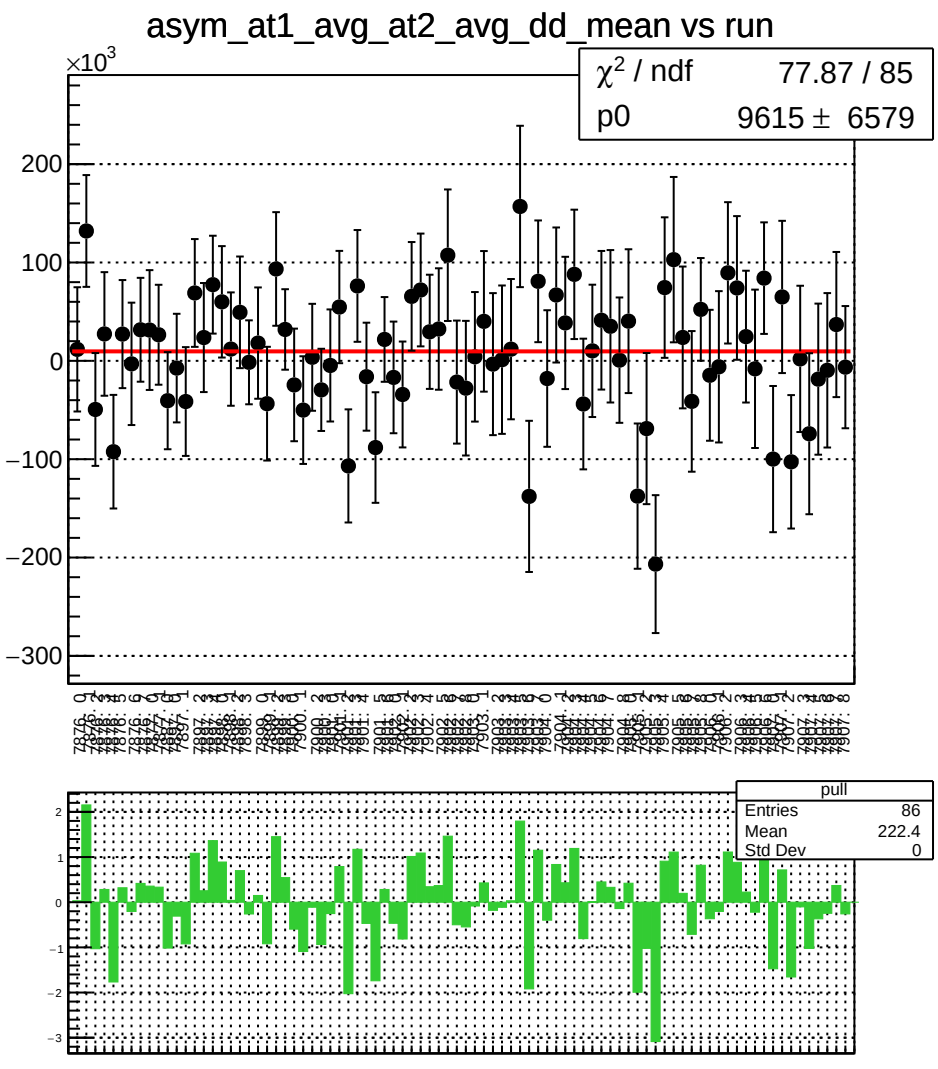

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 77.09 / 85
p0 −124.1± 1476
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 329.6
Std Dev 0
2
1
0
−1
−2

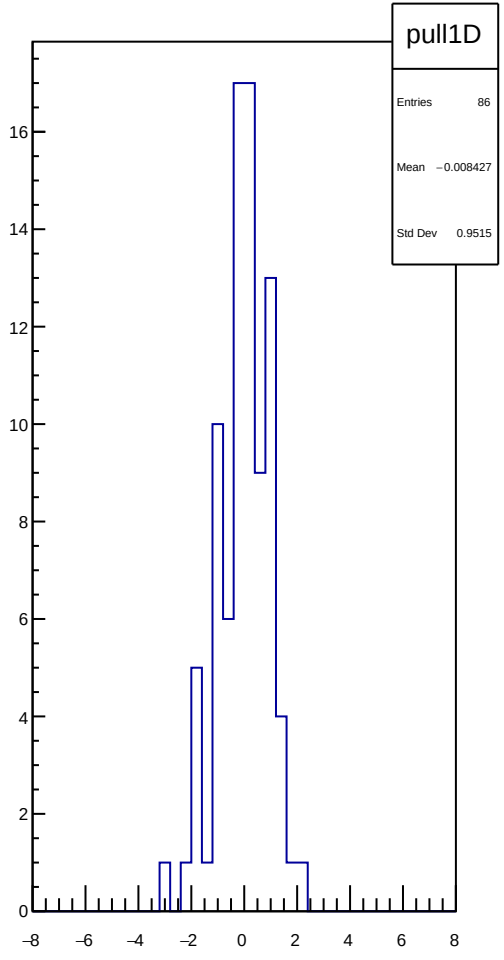

pull1D
Entries 86
Mean −0.007985
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

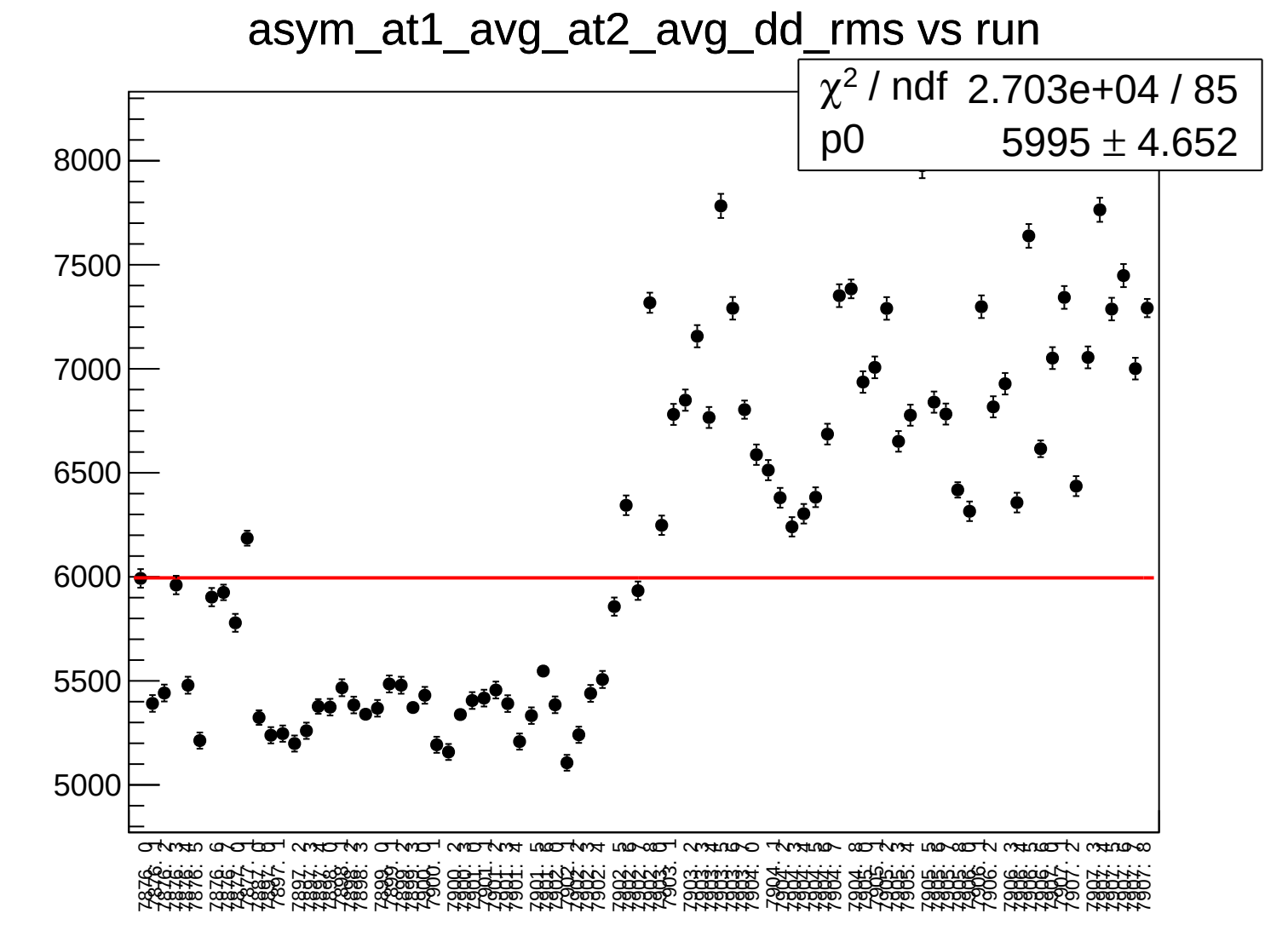

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3132 / 85
p0 1355 ± 1.044
1600
1550
1500
1450
1400
1350
1300
1250

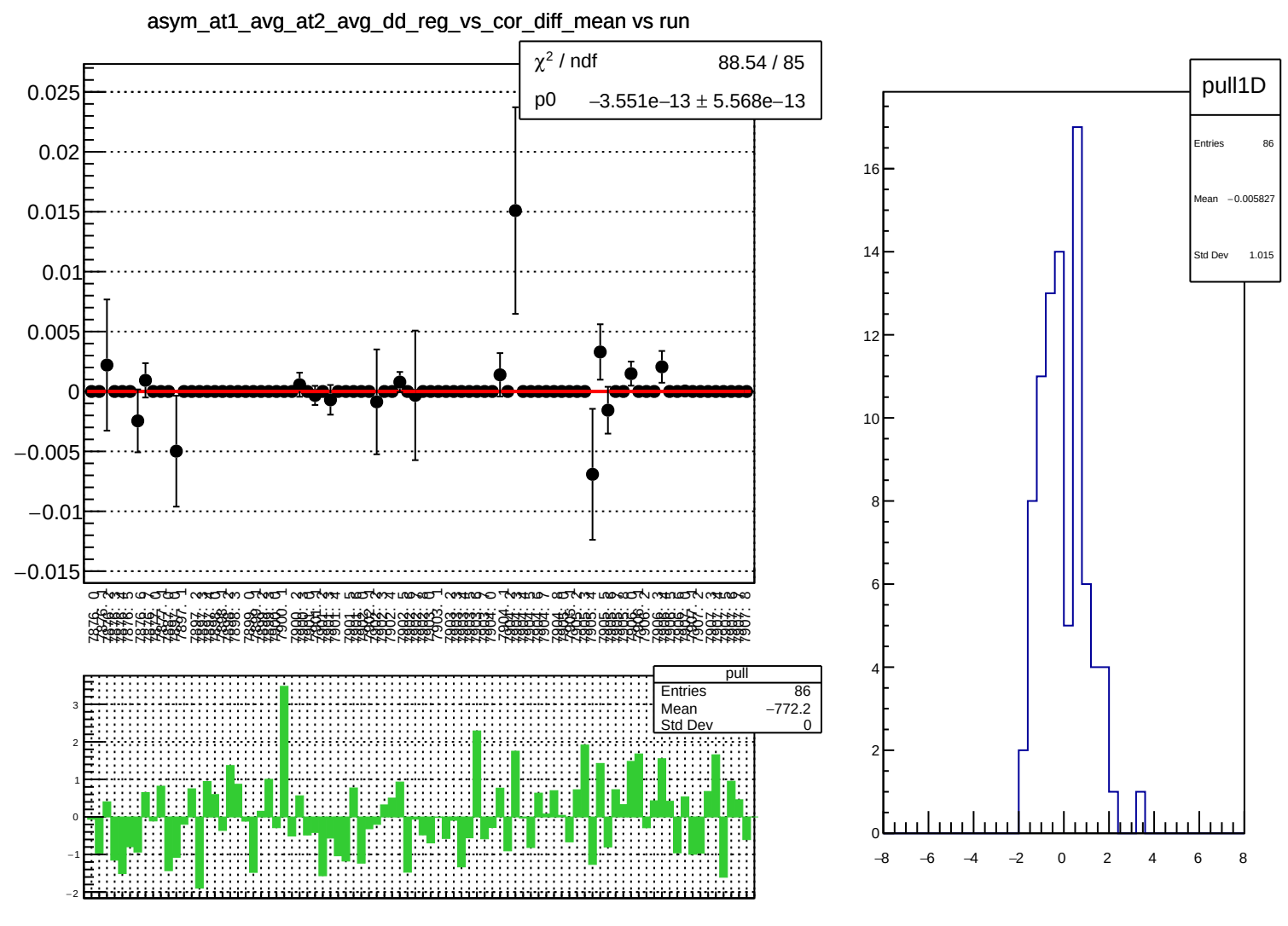

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.28 / 85
p0 −9644 ± 6646
pull
Entries 86
Mean 212.5
Std Dev 0
pull1D
Entries 86
Mean 0.006421
Std Dev 0.9167

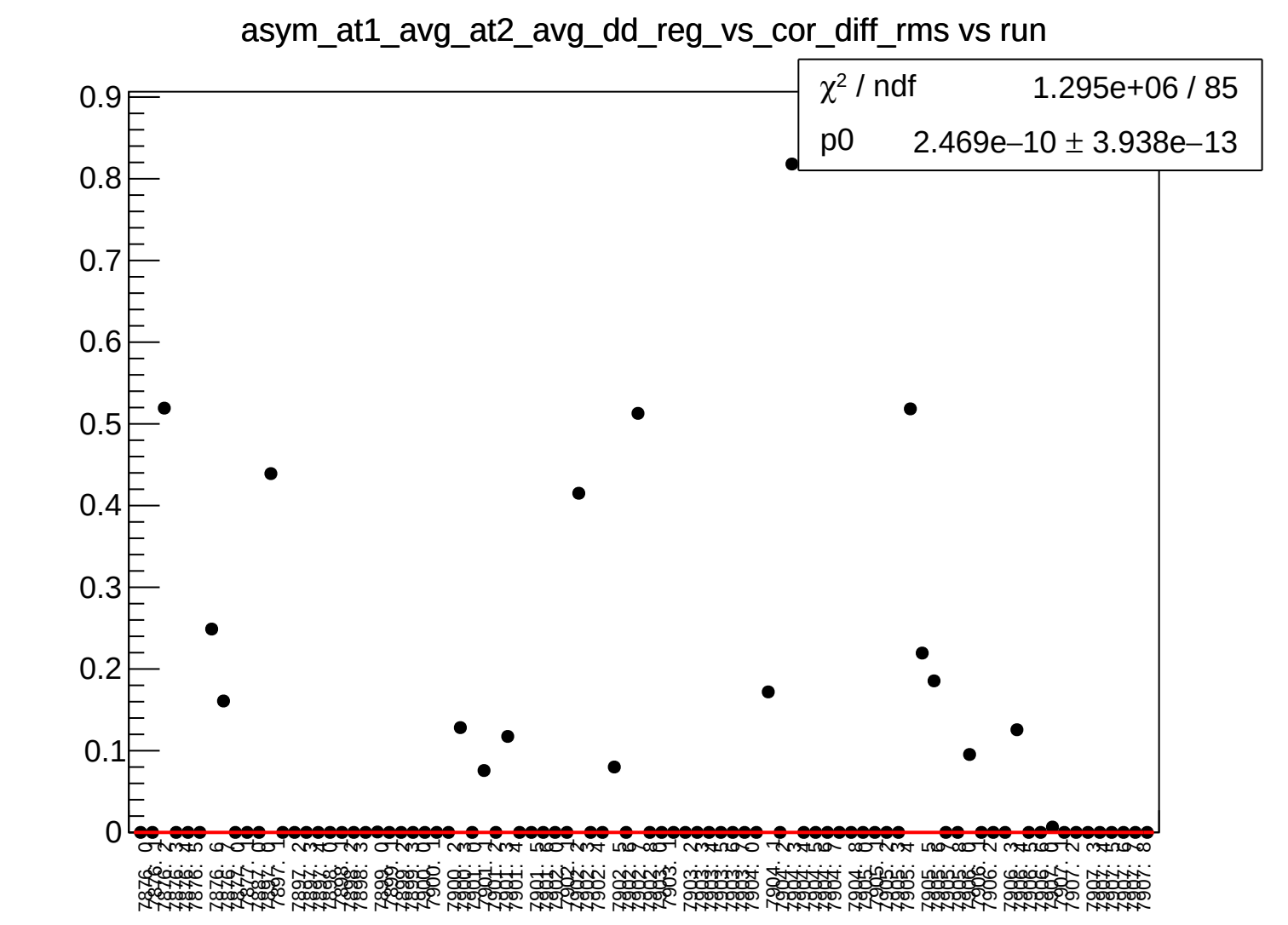

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.283e+04 / 85
p0 6046 ± 4.699
8500
8000
7500
7000
6500
6000
5500
5000

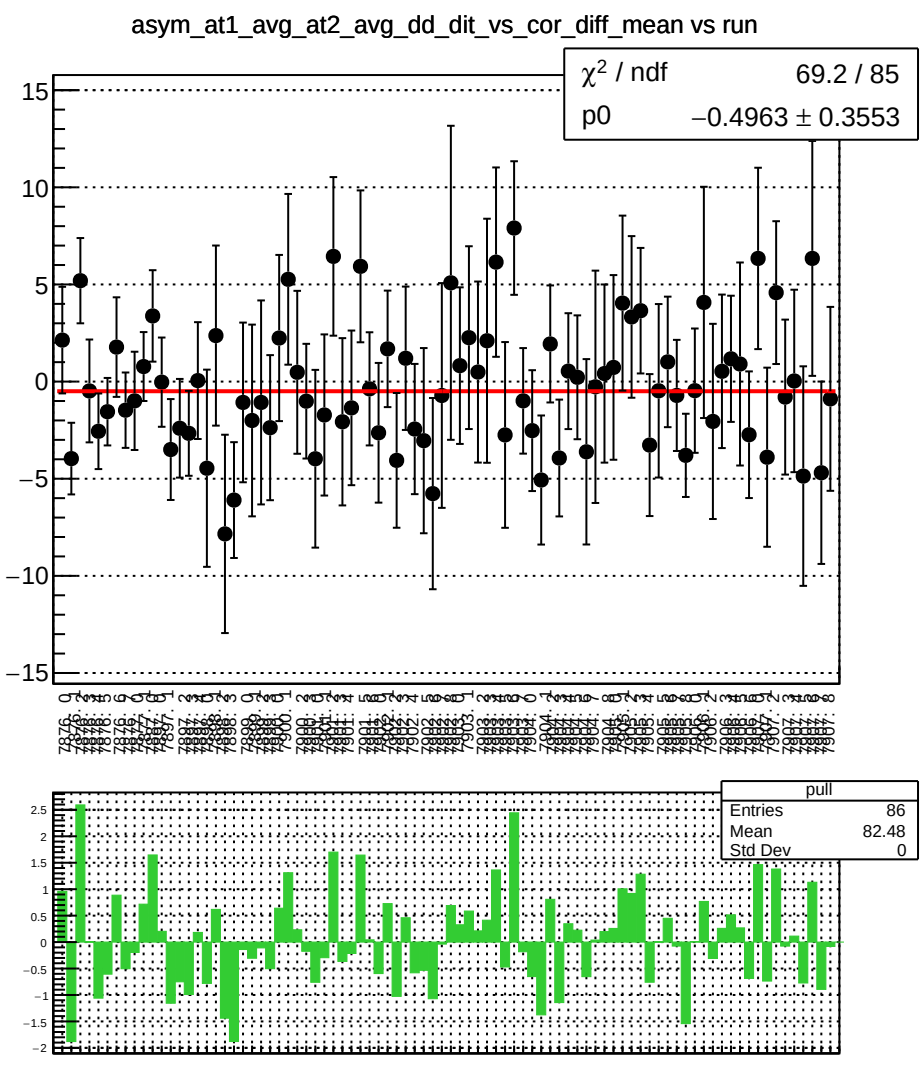

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 77.87 / 85
p0 9615 ± 6579
200
100
0
−100
−200
−300
pull
Entries 86
Mean 222.4
Std Dev 0
2
1
0
−1
−2
−3

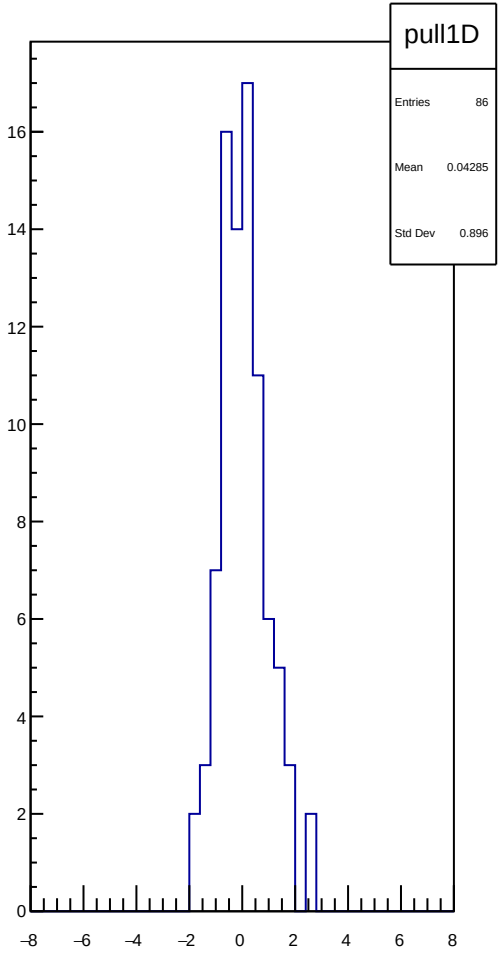

pull1D
Entries 86
Mean −0.008427
Std Dev 0.9515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

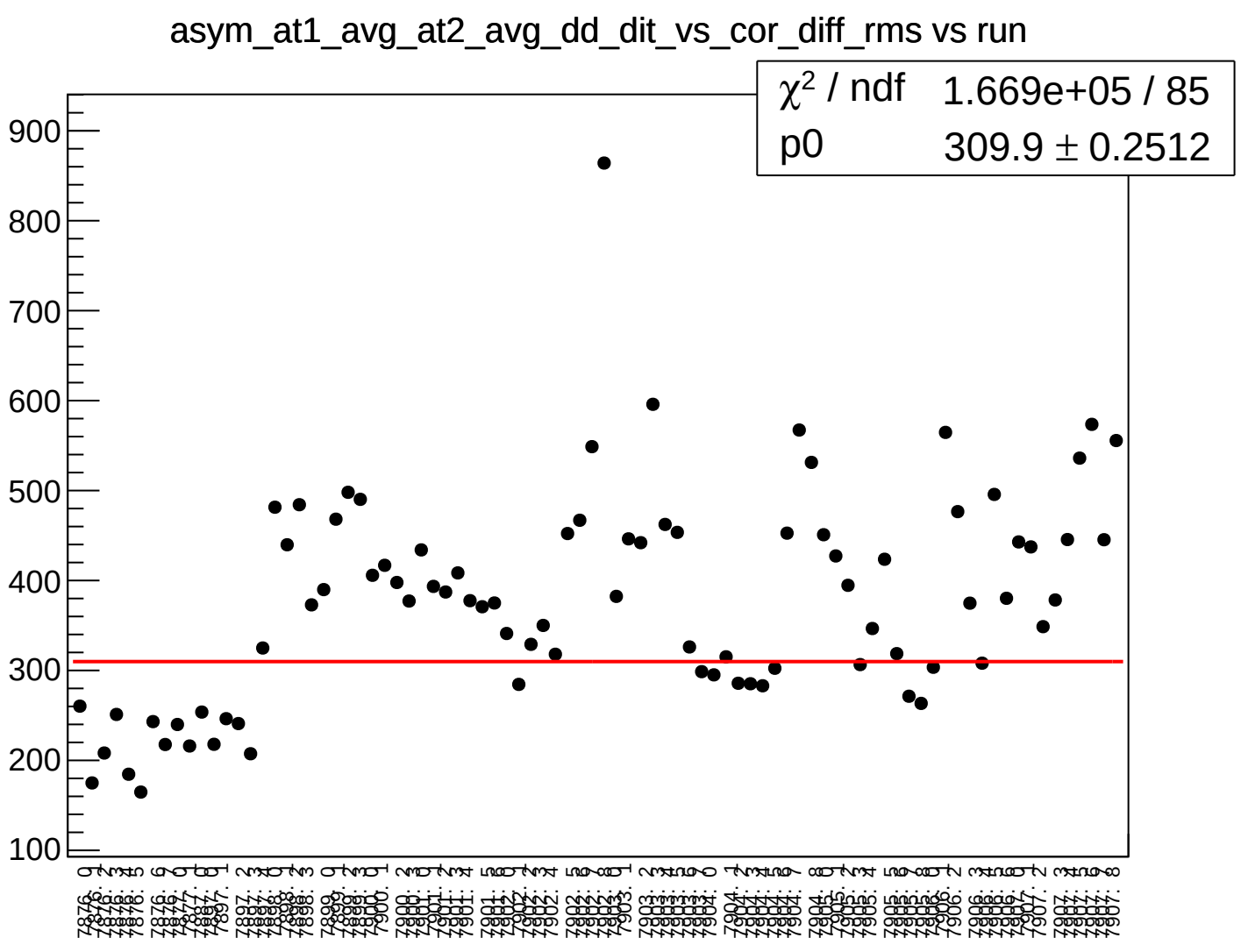

asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 2.703e+04 / 85
p0 5995 ± 4.652
8000
7500
7000
6500
6000
5500
5000

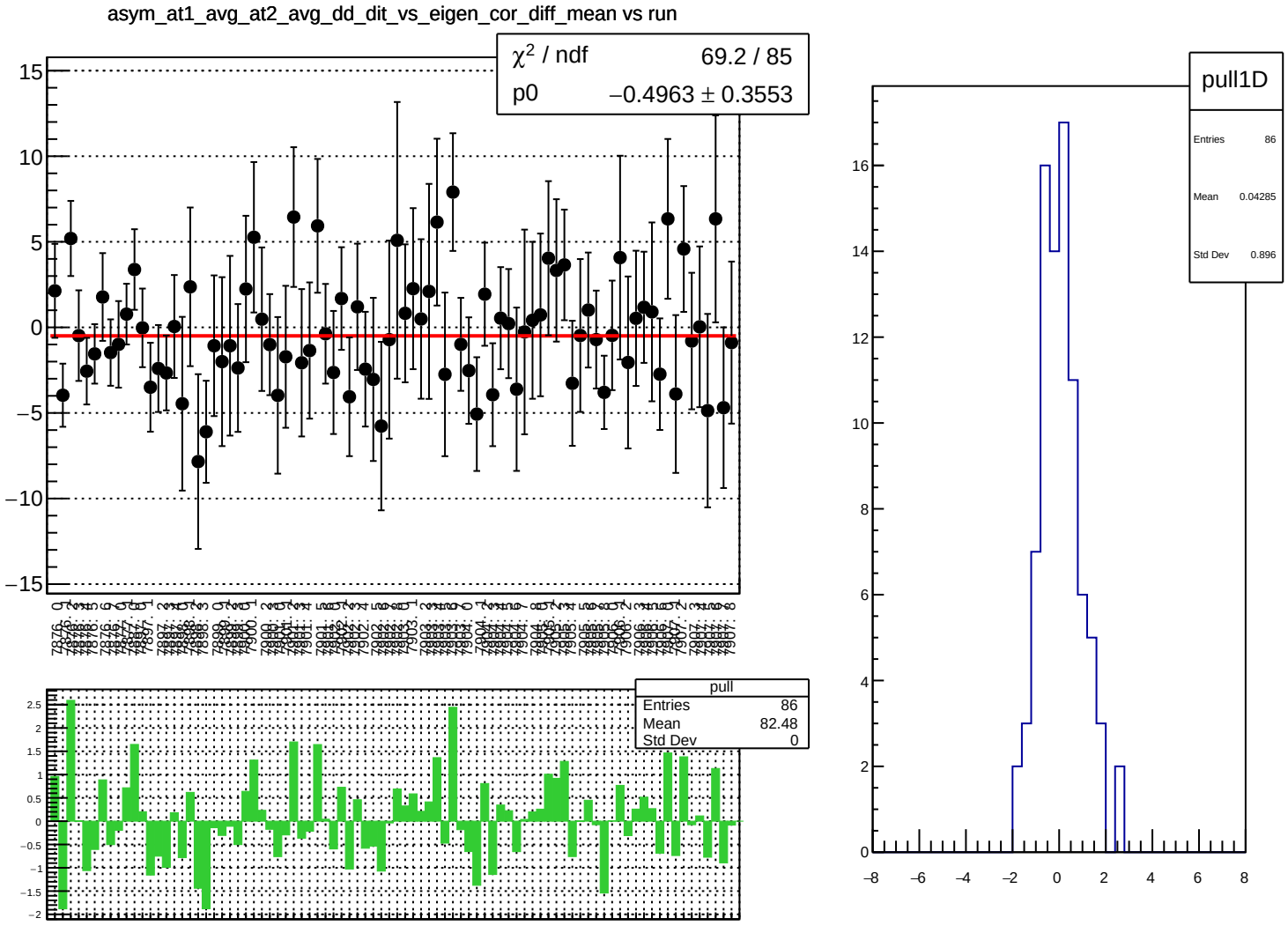

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.54 / 85
p0 −3.551e−13 ± 5.568e−13
pull
Entries 86
Mean −772.2
Std Dev 0
pull1D
Entries 86
Mean −0.005827
Std Dev 1.015

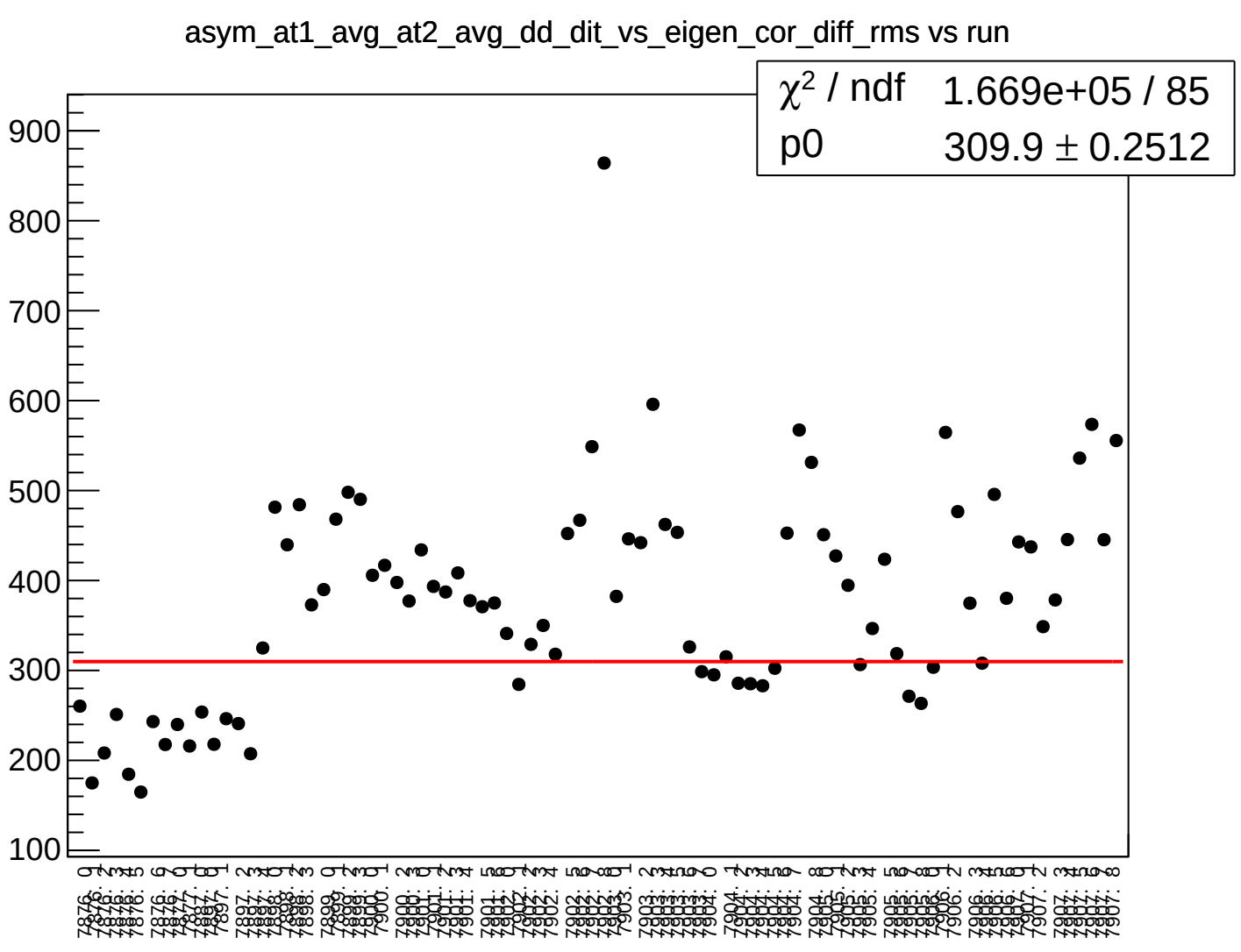

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.295e+06 / 85
p0 2.469e−10 ± 3.938e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

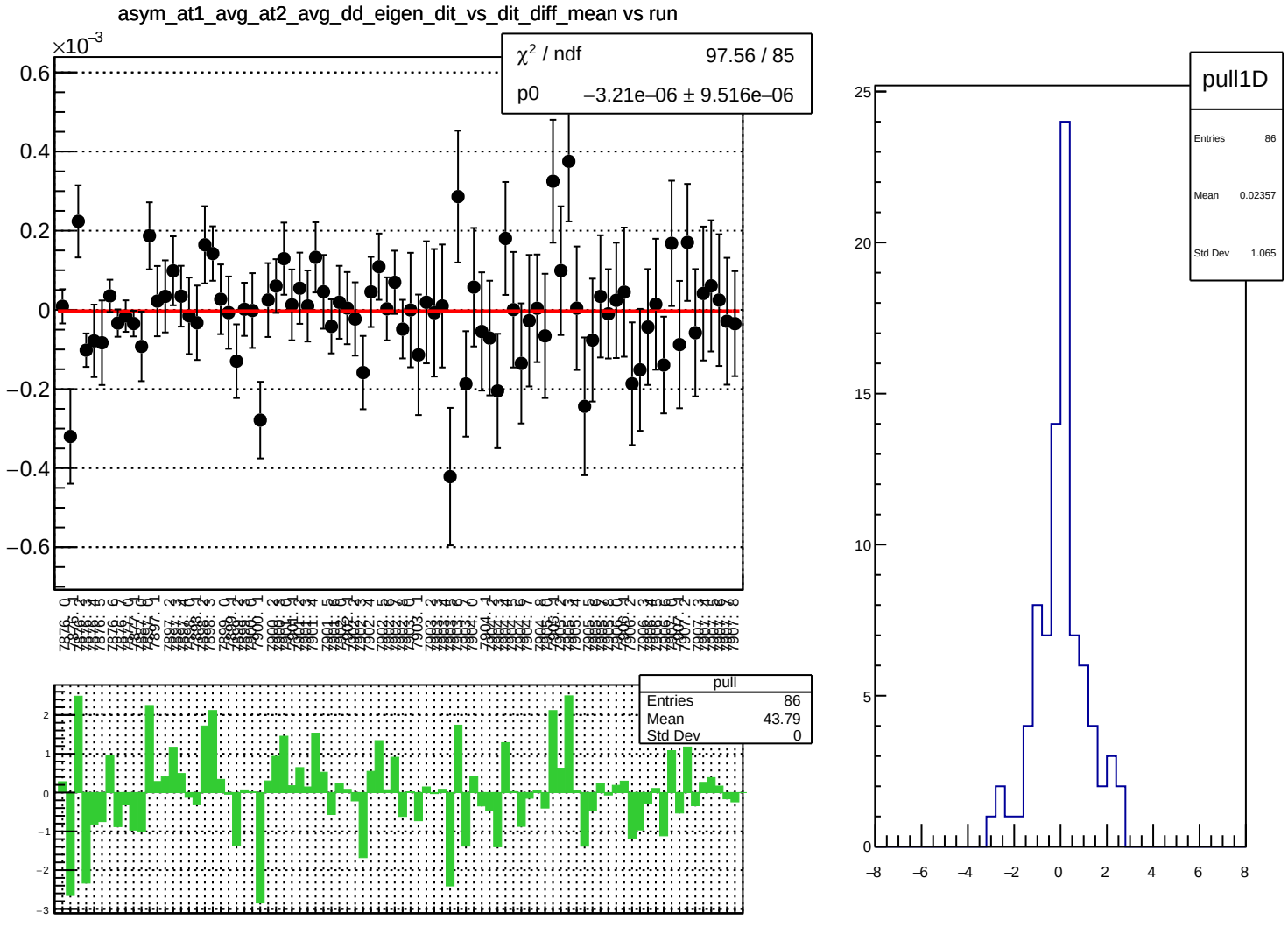

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0

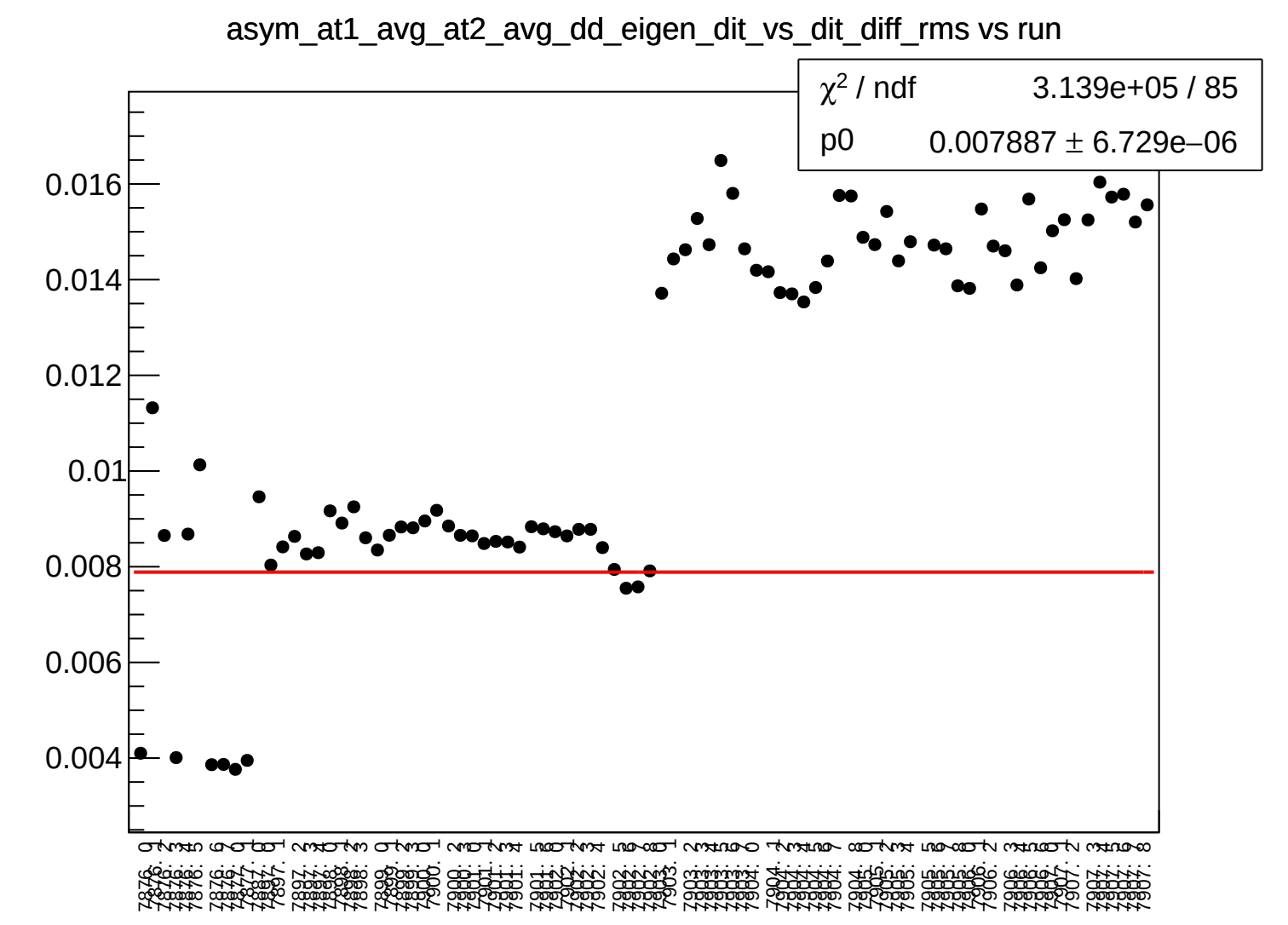

pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

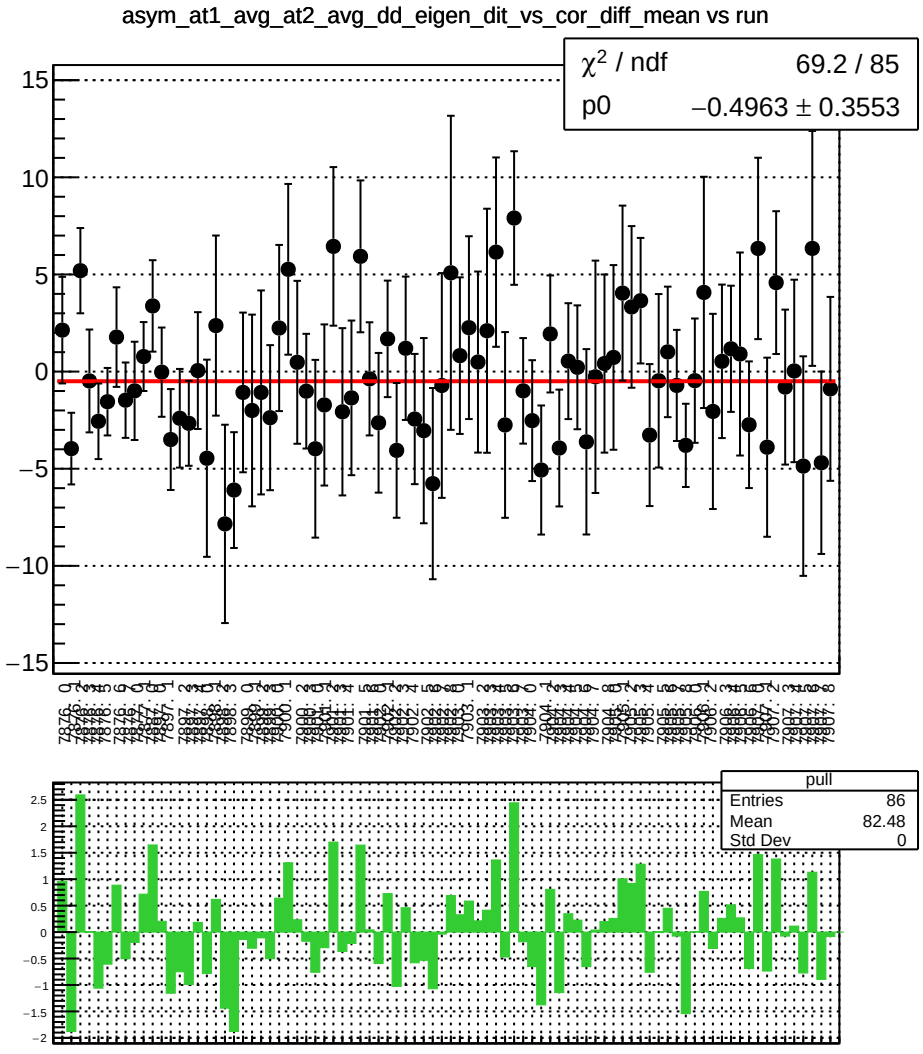

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

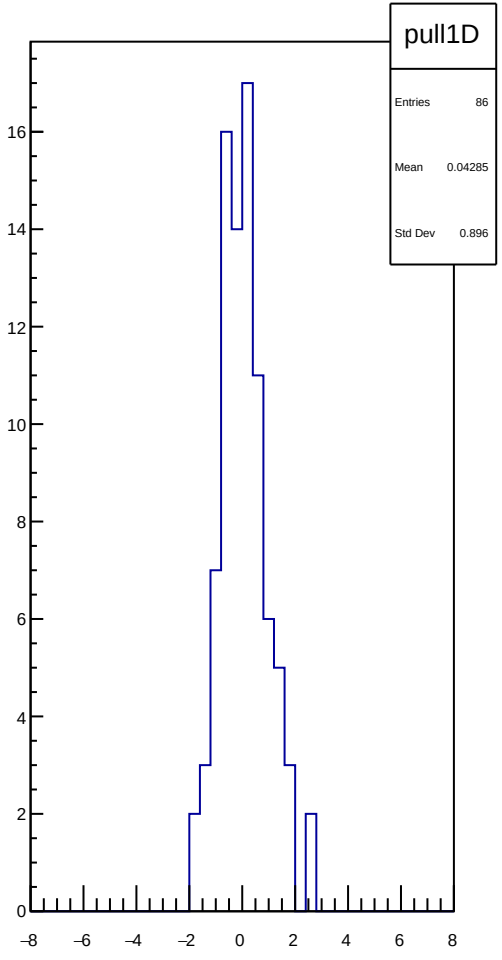

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0
pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

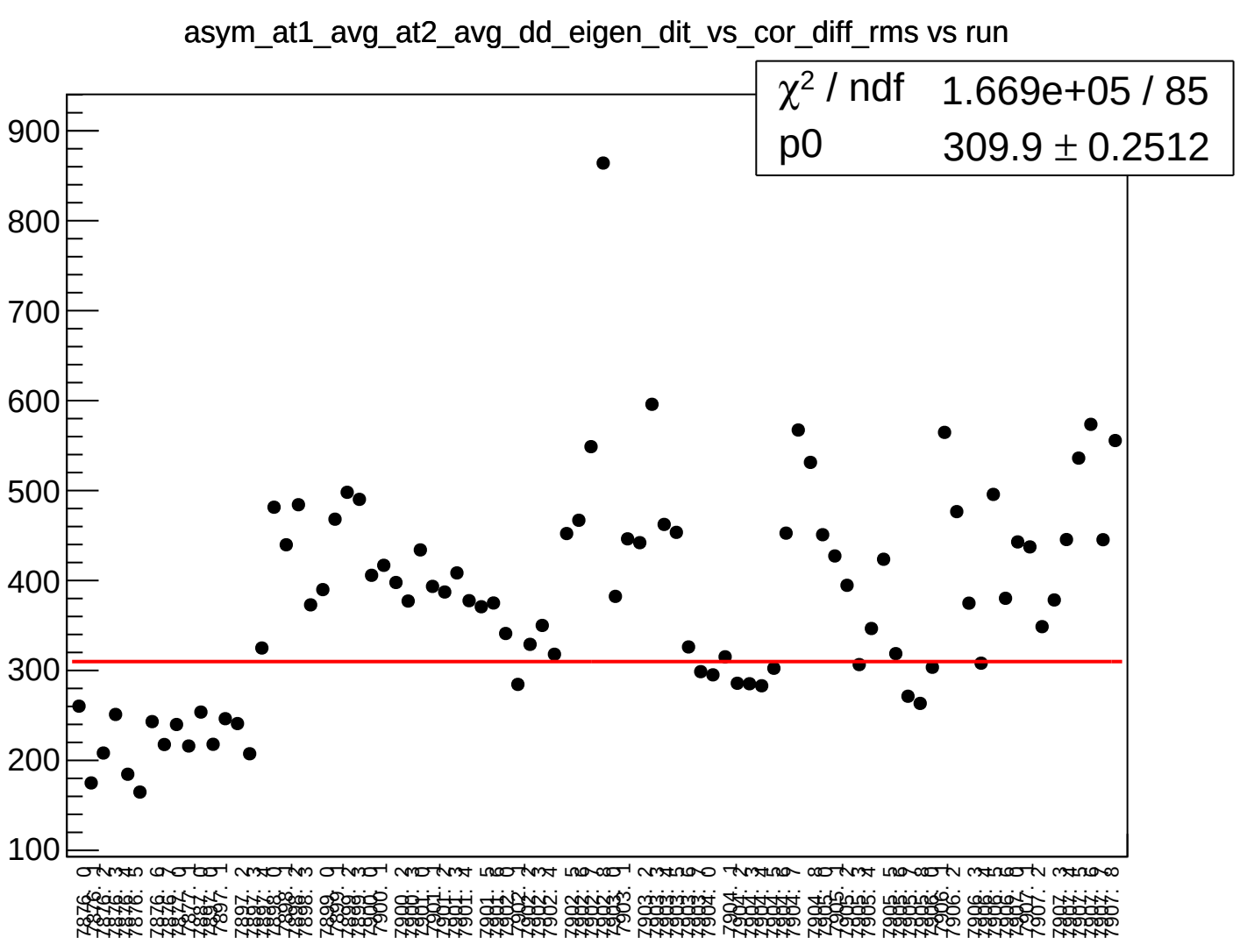

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

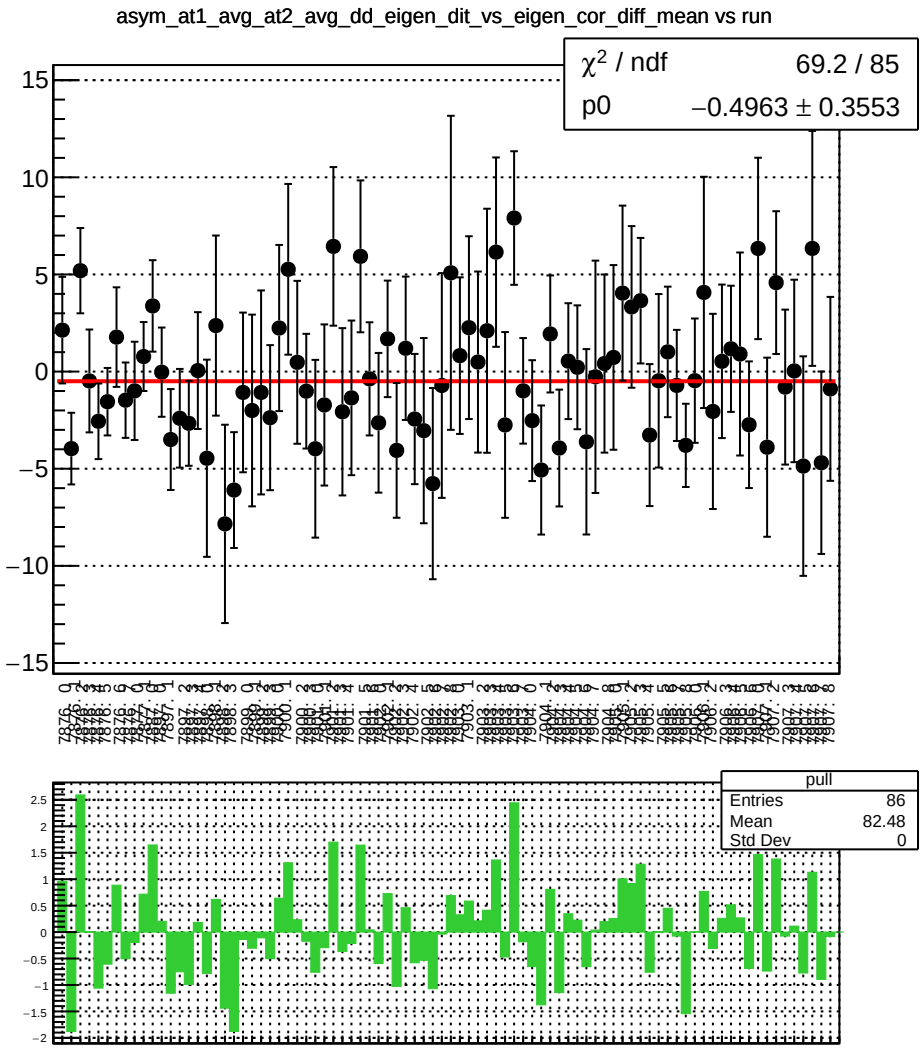

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 97.56 / 85
p0 −3.21e−06 ± 9.516e−06
pull
Entries 86
Mean 43.79
Std Dev 0
pull1D
Entries 86
Mean 0.02357
Std Dev 1.065

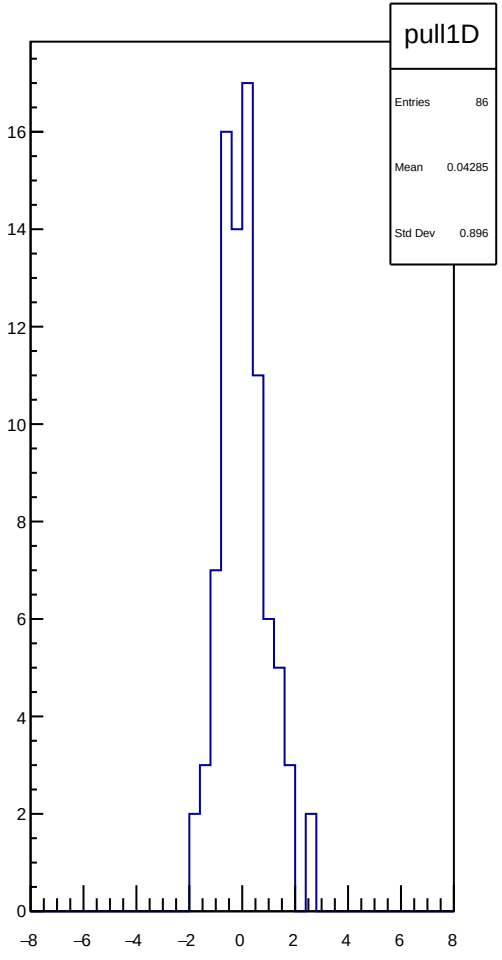

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.139e+05 / 85
p0 0.007887 ± 6.729e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

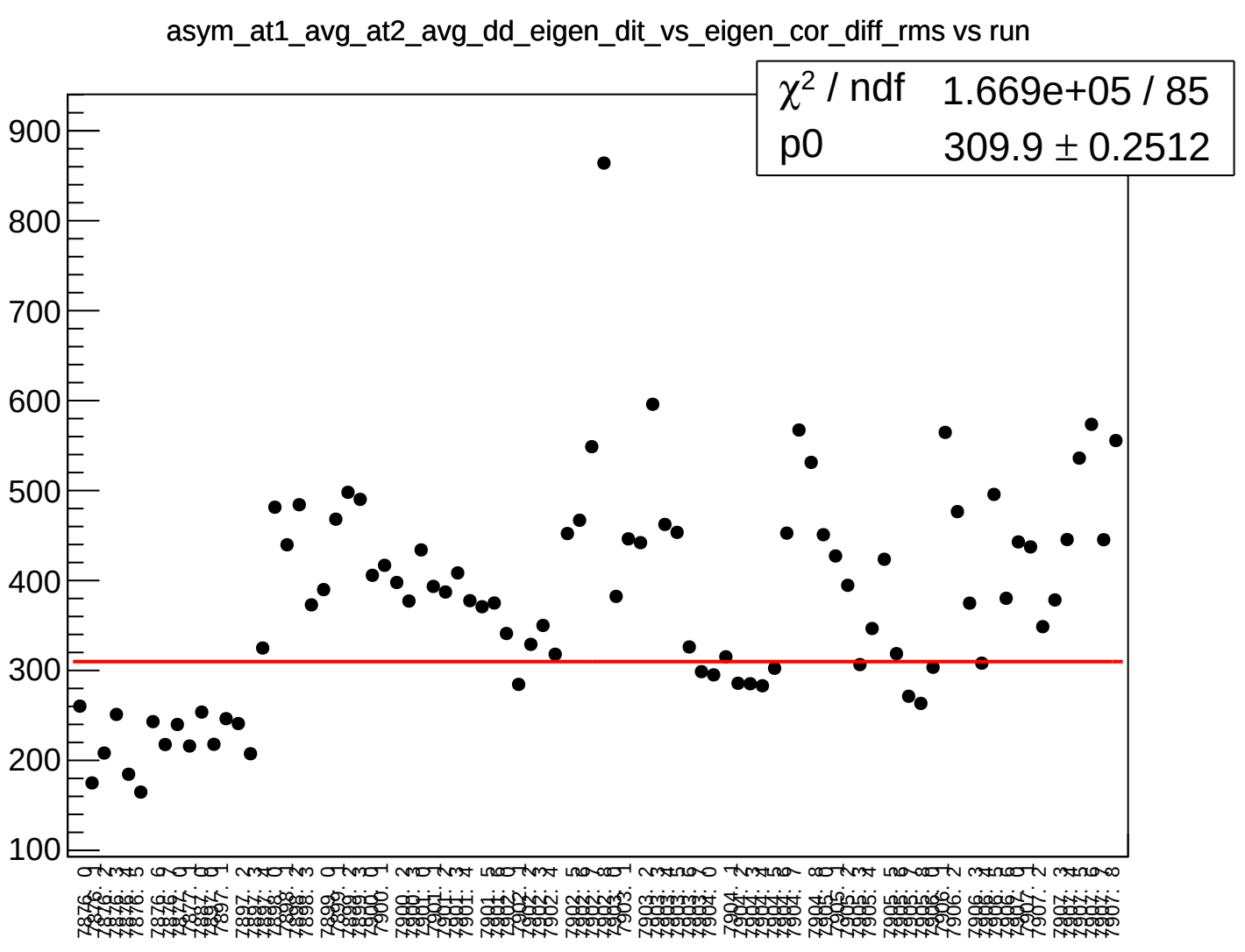

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0

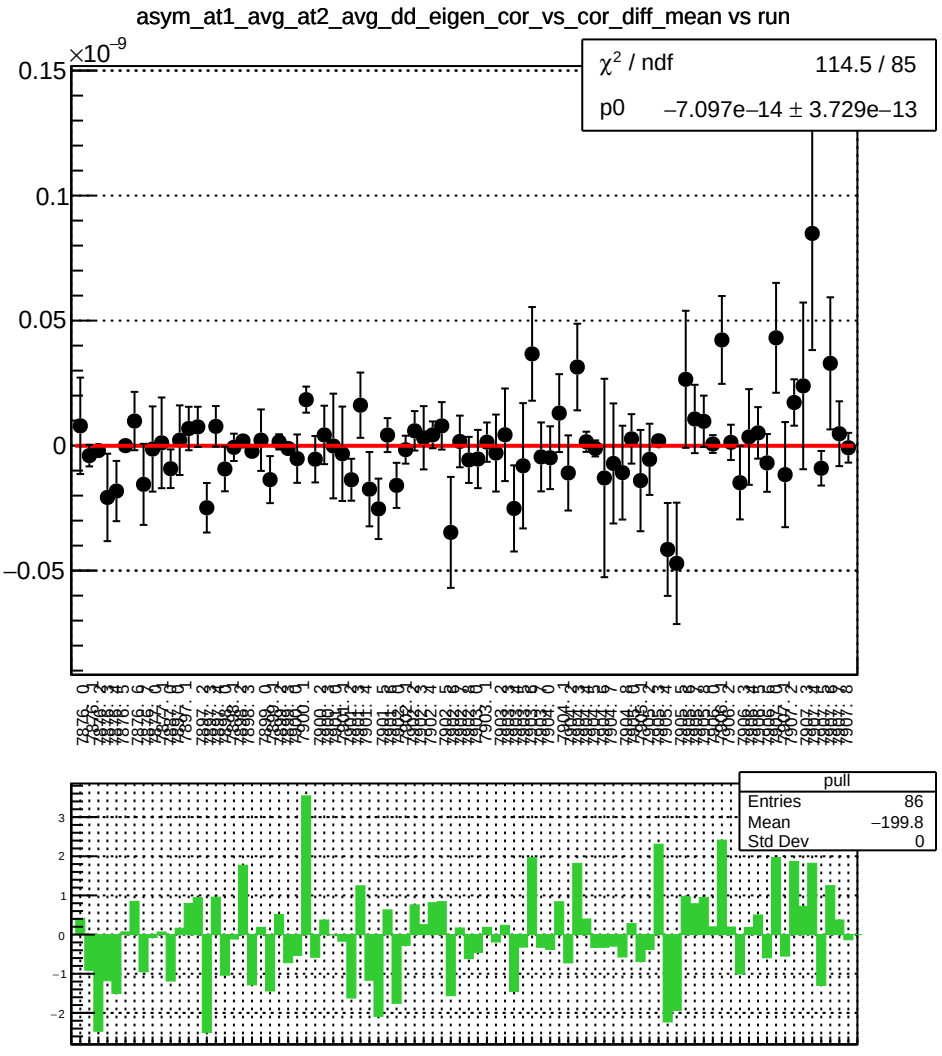

pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

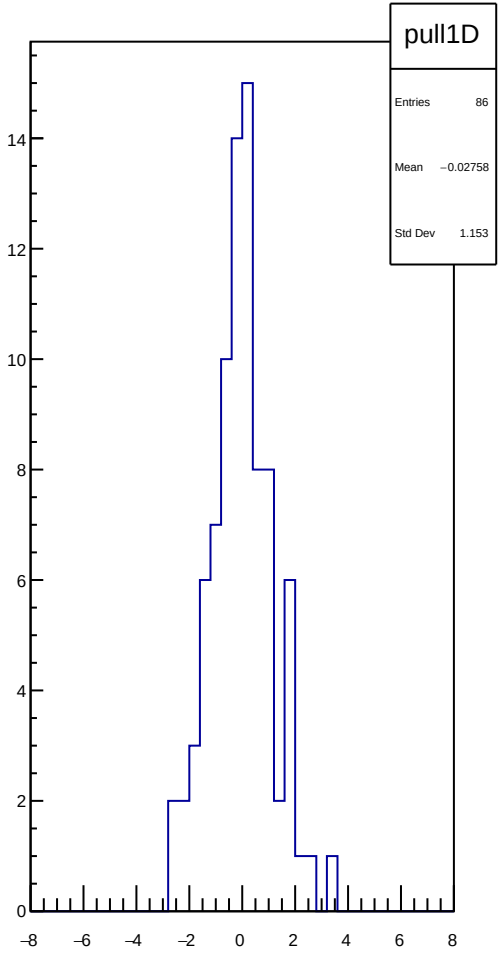

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

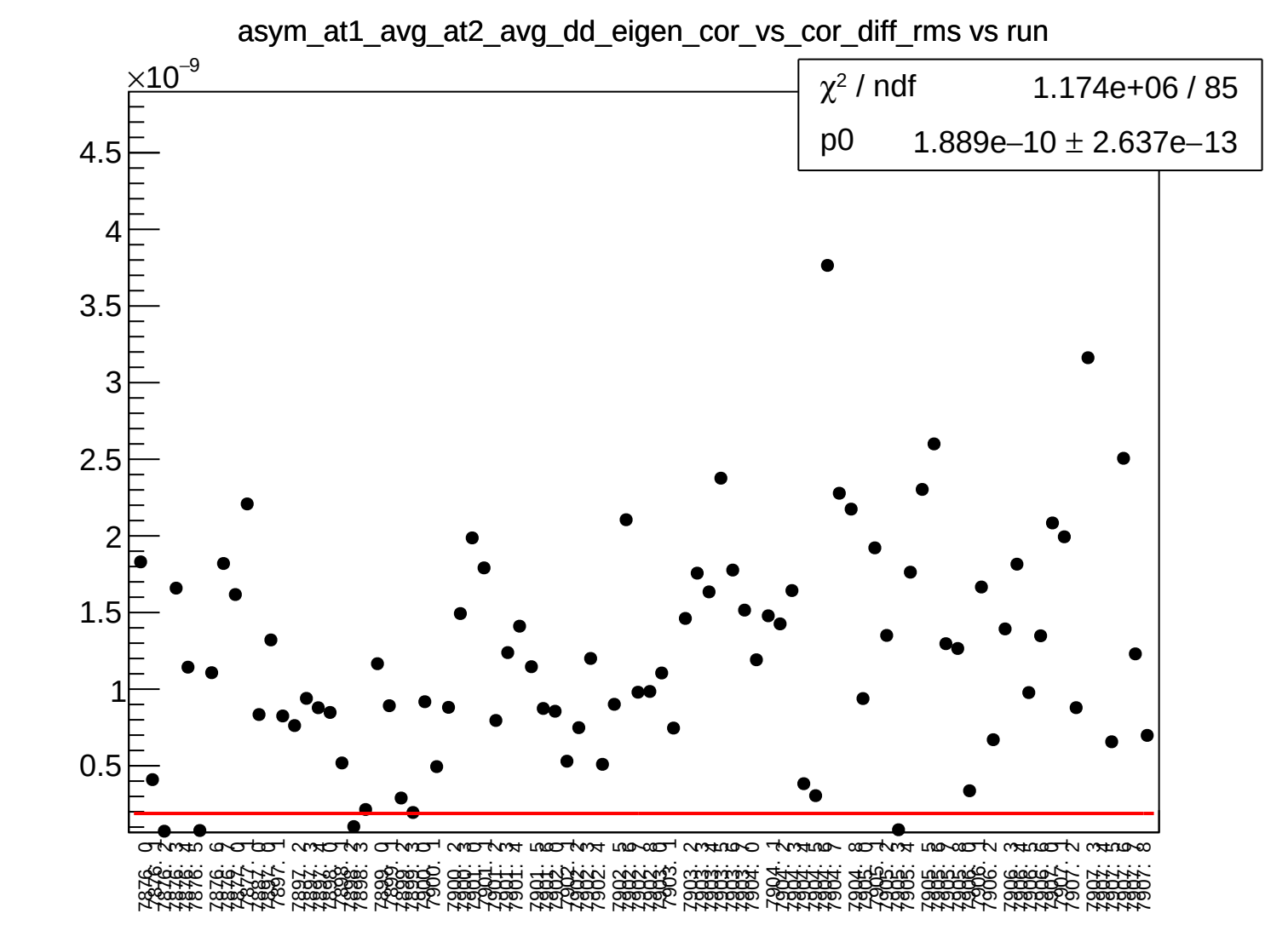

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0

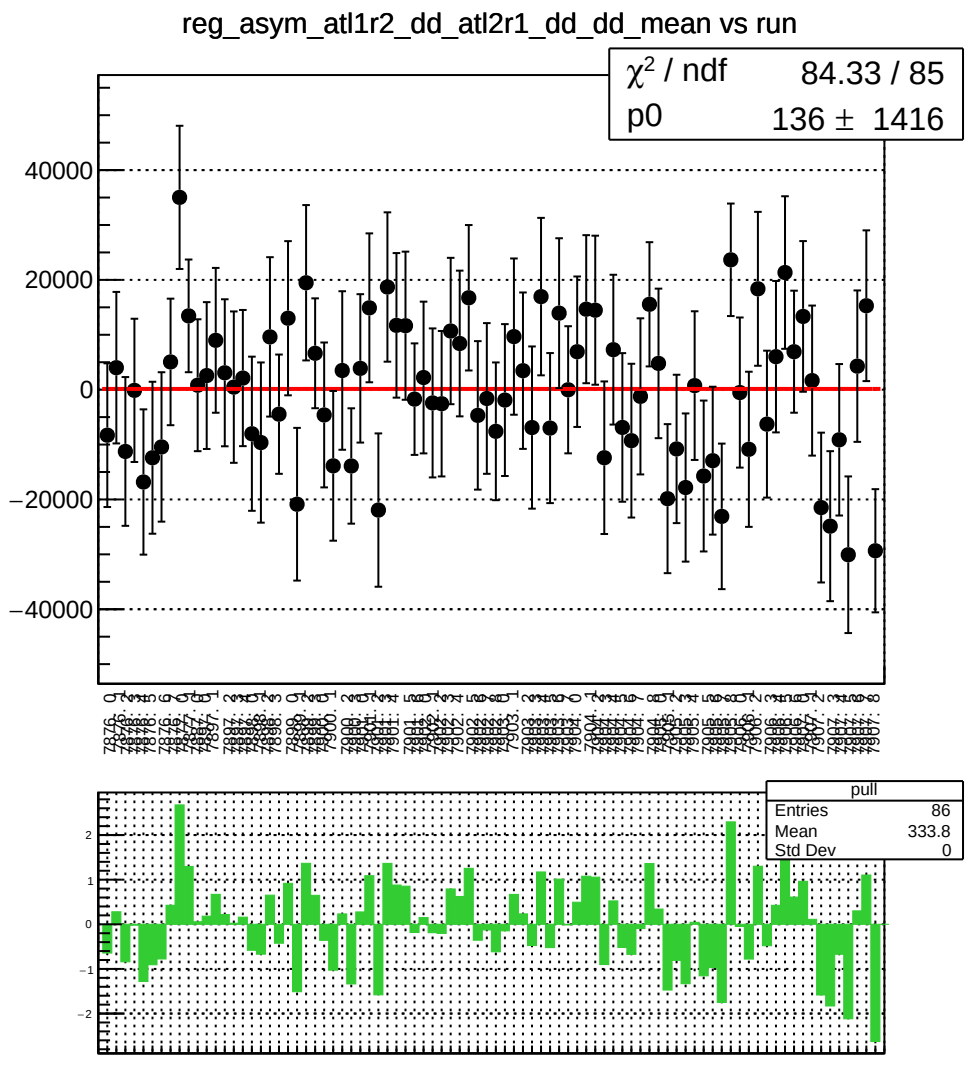

pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

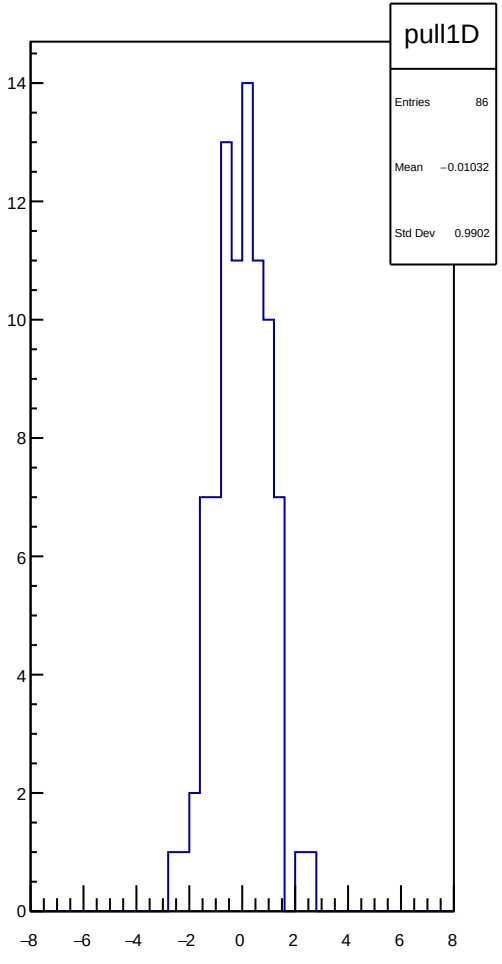

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

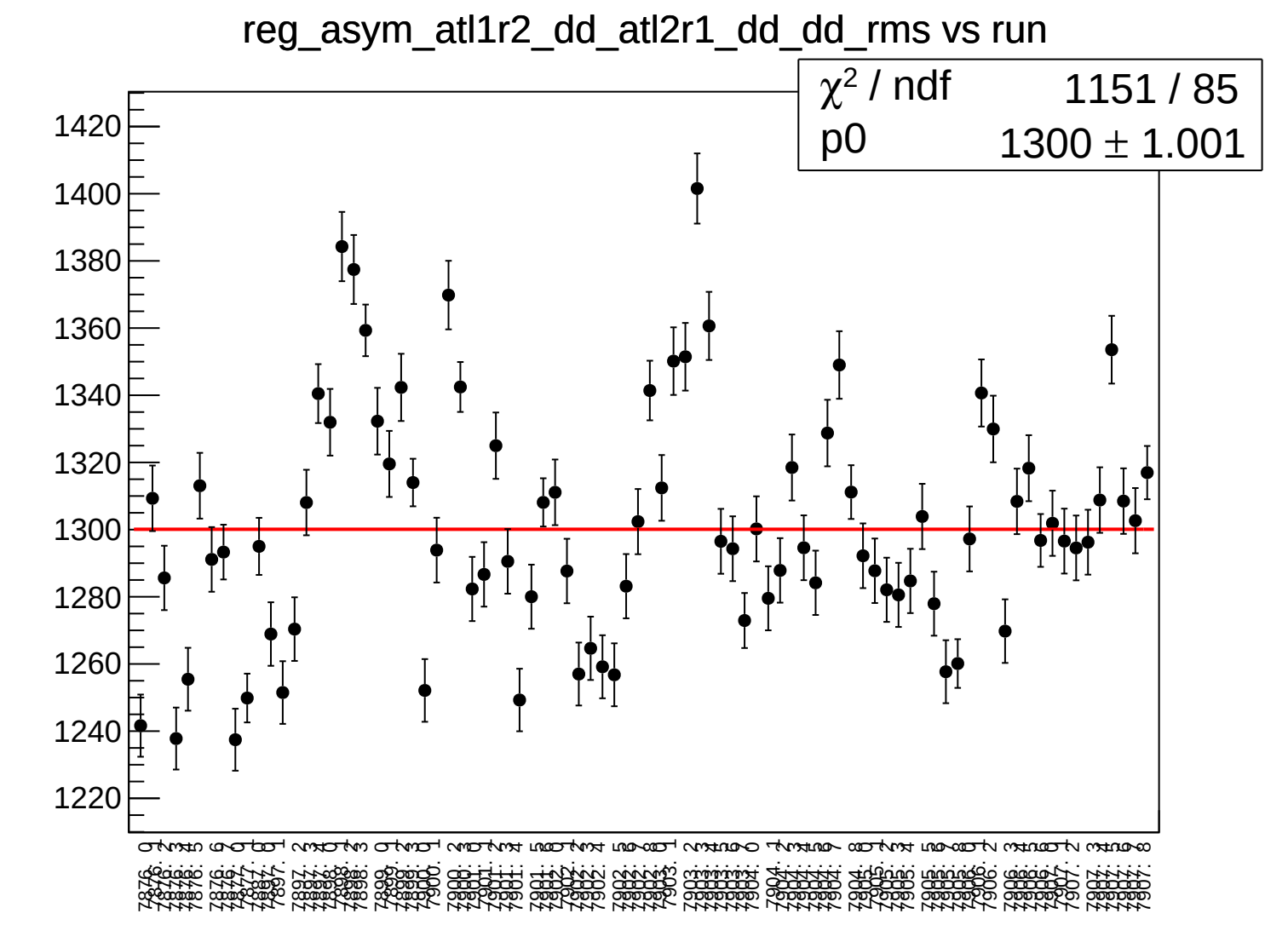

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 114.5 / 85
p0 −7.097e−14 ± 3.729e−13
0.15
0.1
0.05
0
−0.05
pull
Entries 86
Mean −199.8
Std Dev 0
3
2
1
0
−1
−2

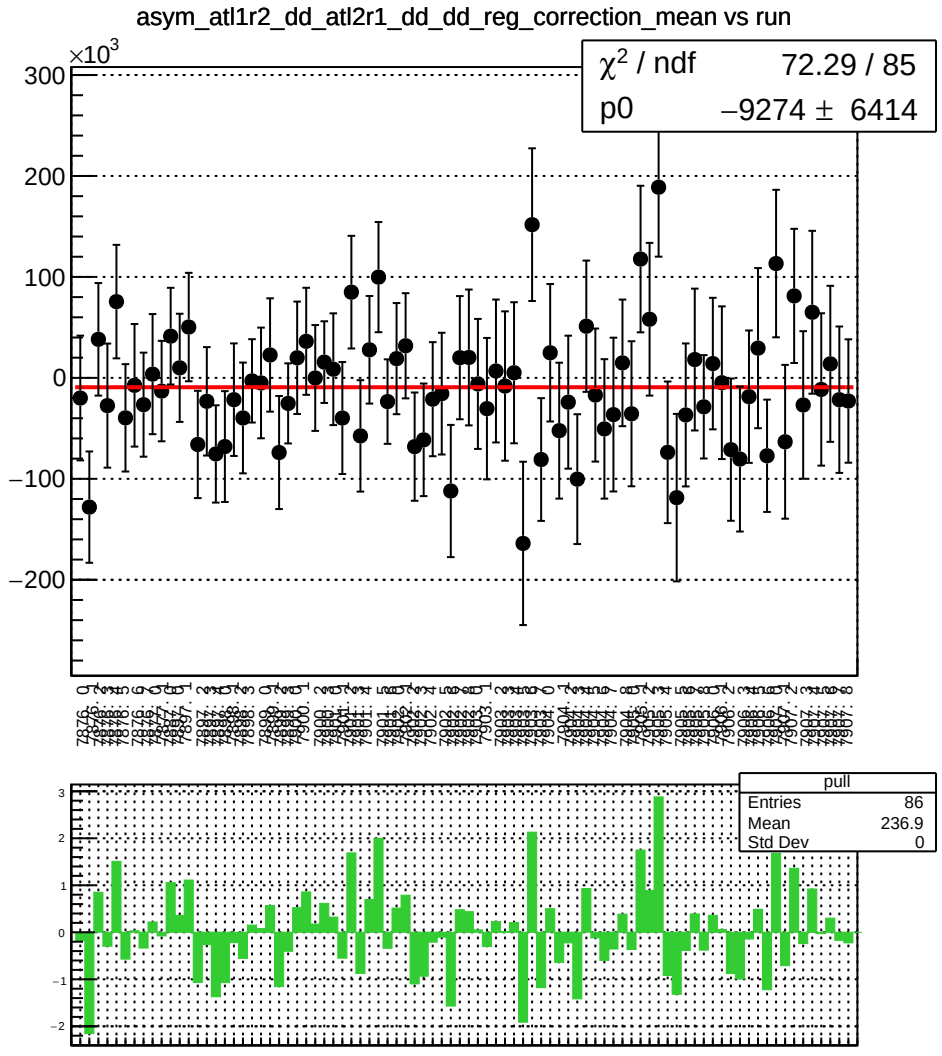

pull1D
Entries 86
Mean −0.02758
Std Dev 1.153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

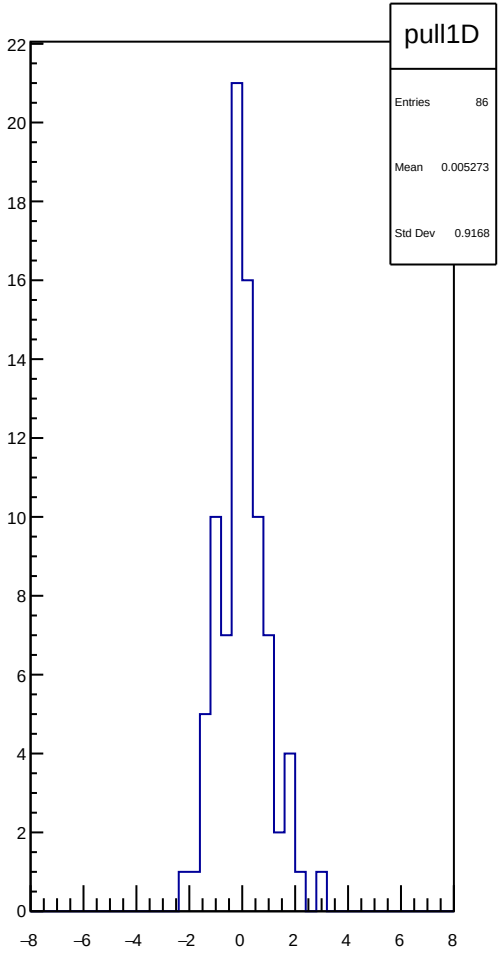

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.174e+06 / 85
p0 1.889e−10 ± 2.637e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

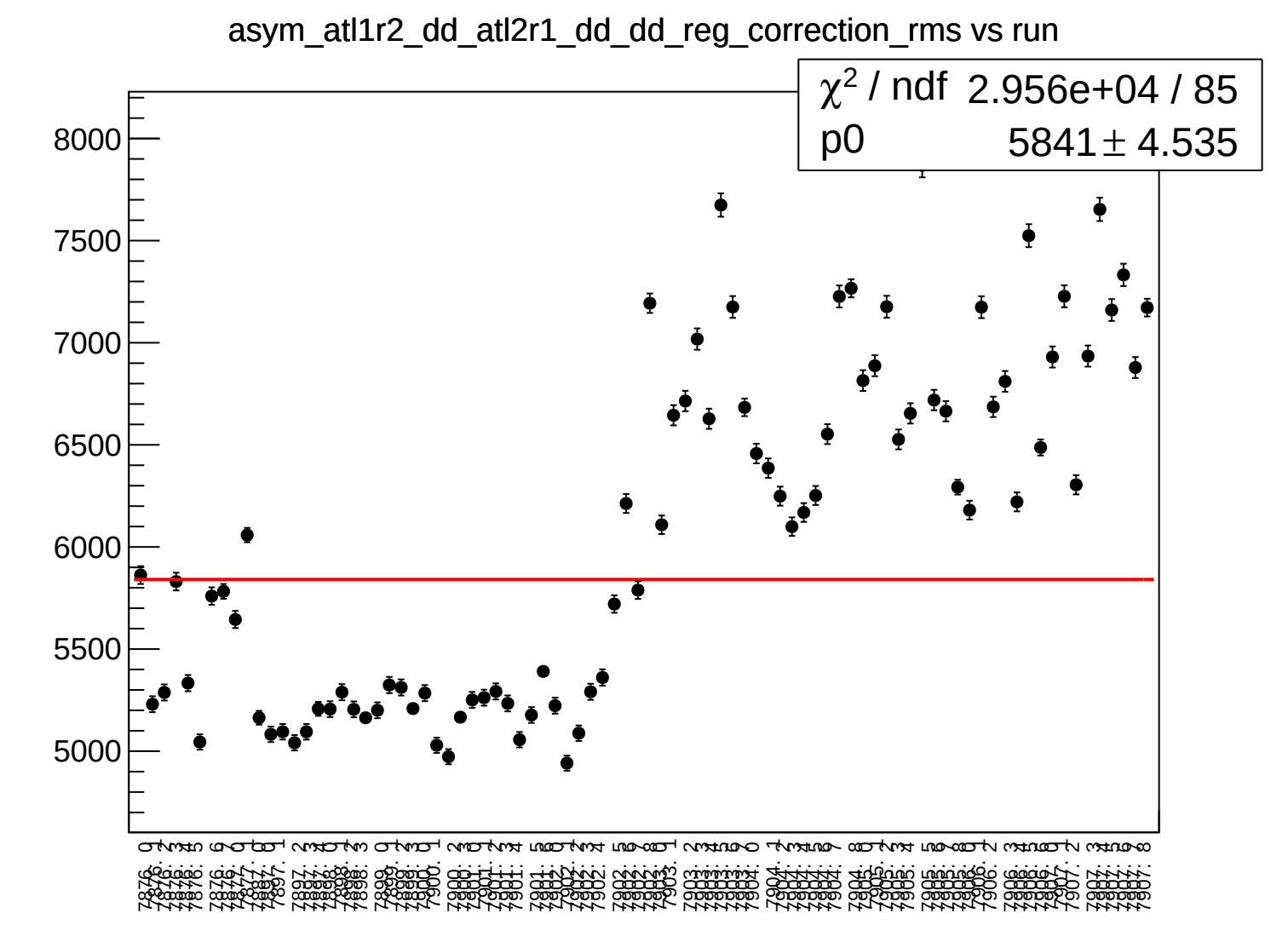

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 84.33 / 85
p0 136 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 333.8
Std Dev 0
2
1
0
−1
−2

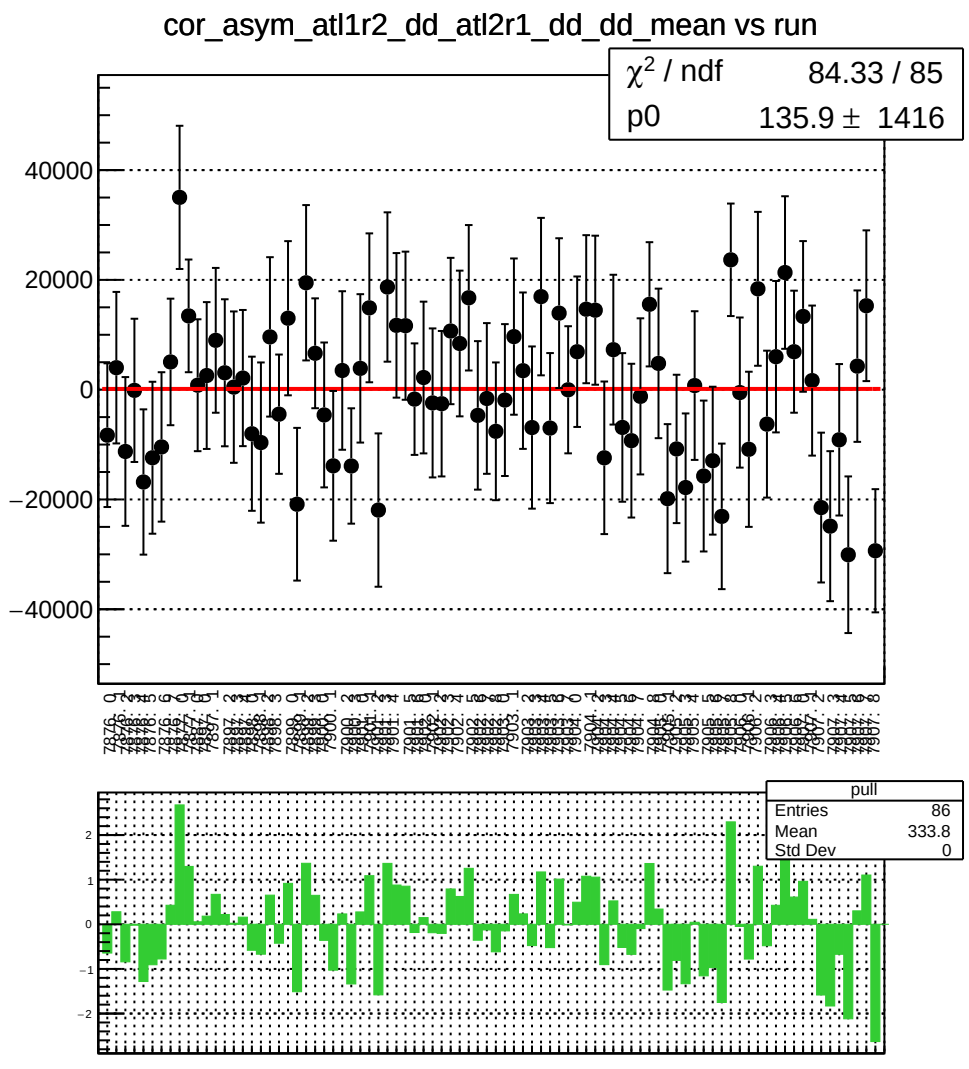

pull1D
Entries 86
Mean −0.01032
Std Dev 0.9902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

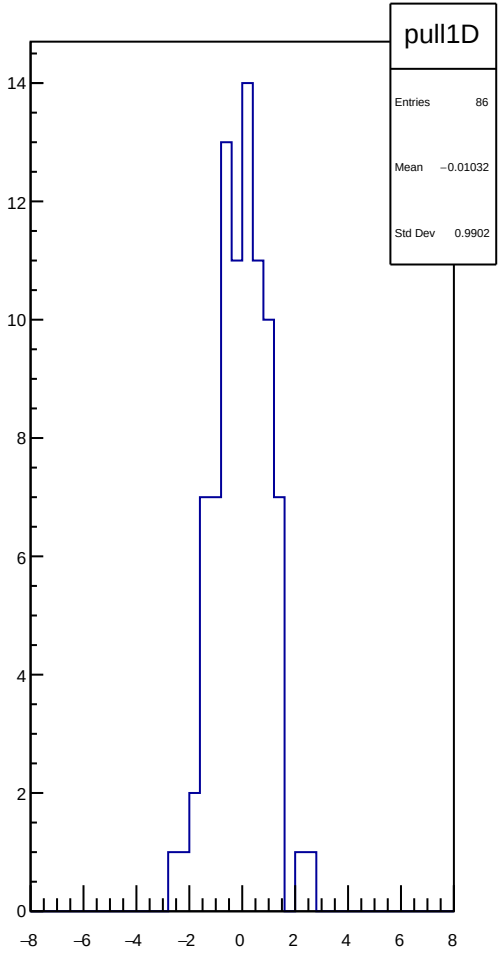

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1151 / 85
p0 1300 ± 1.001
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

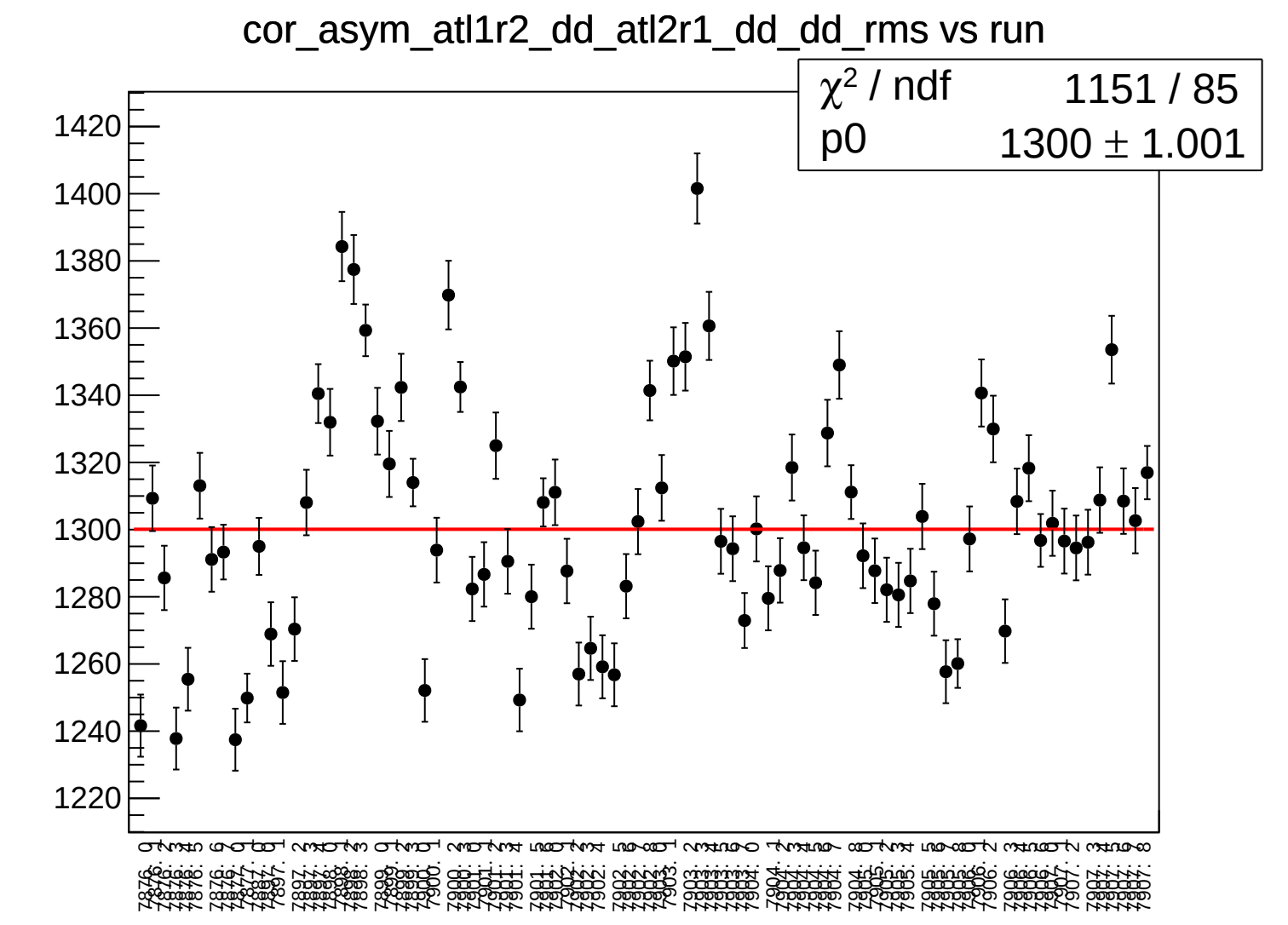

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
χ² / ndf 72.29 / 85
p0 −9274 ± 6414
pull
Entries 86
Mean 236.9
Std Dev 0

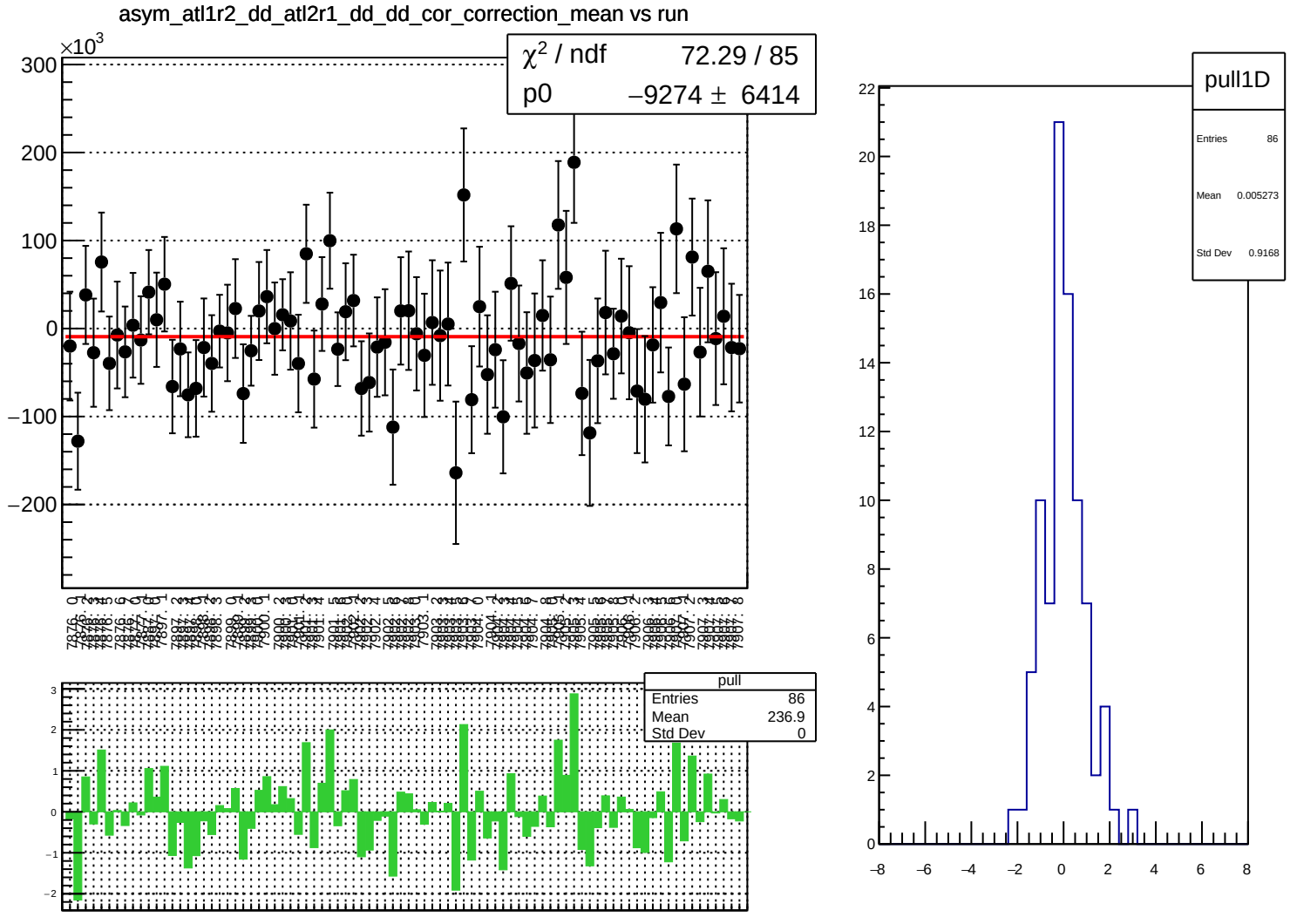

pull1D
Entries 86
Mean 0.005273
Std Dev 0.9168

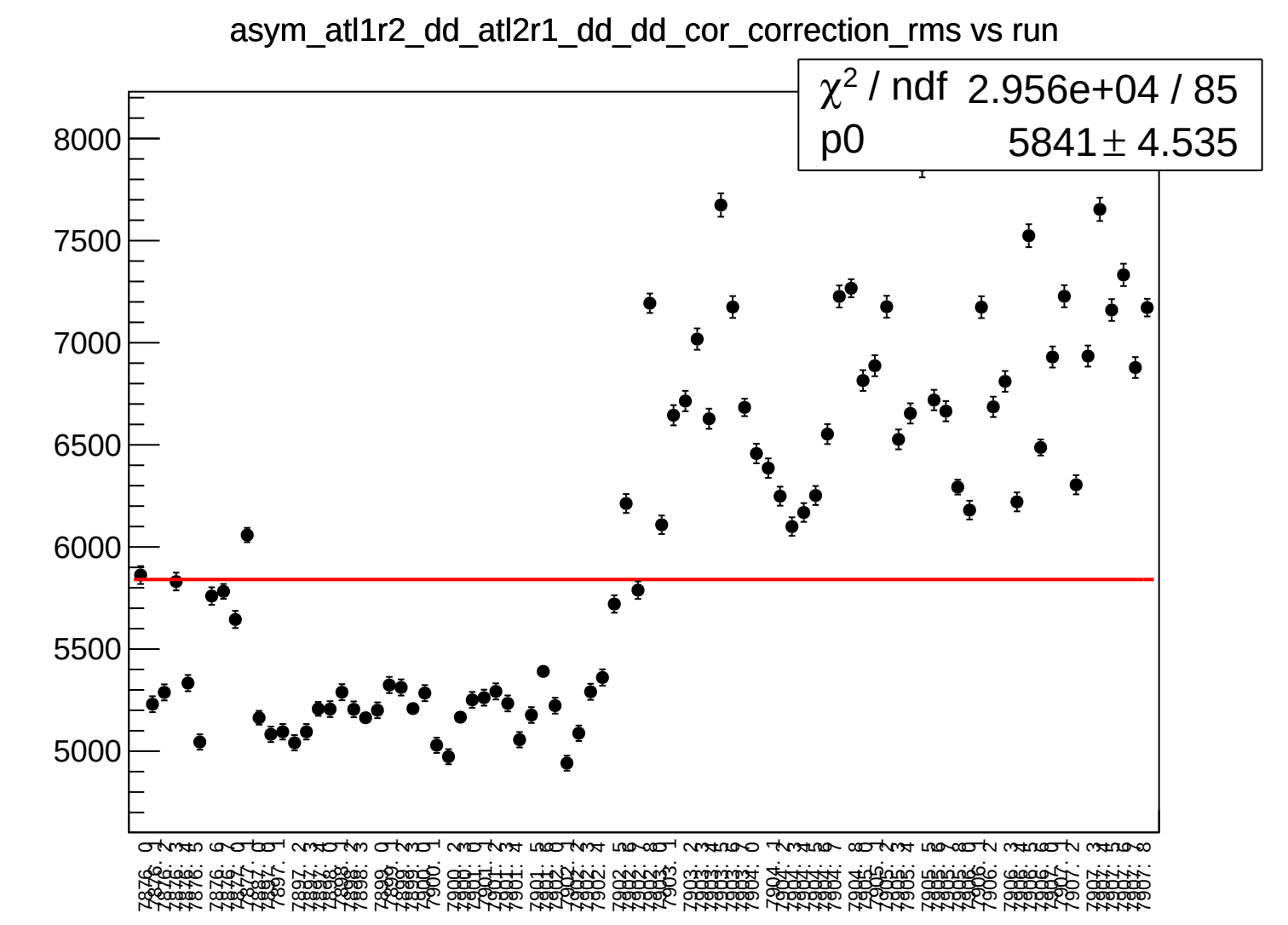

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ^2 / ndf 2.956e+04 / 85
p0 5841 ± 4.535
8000
7500
7000
6500
6000
5500
5000

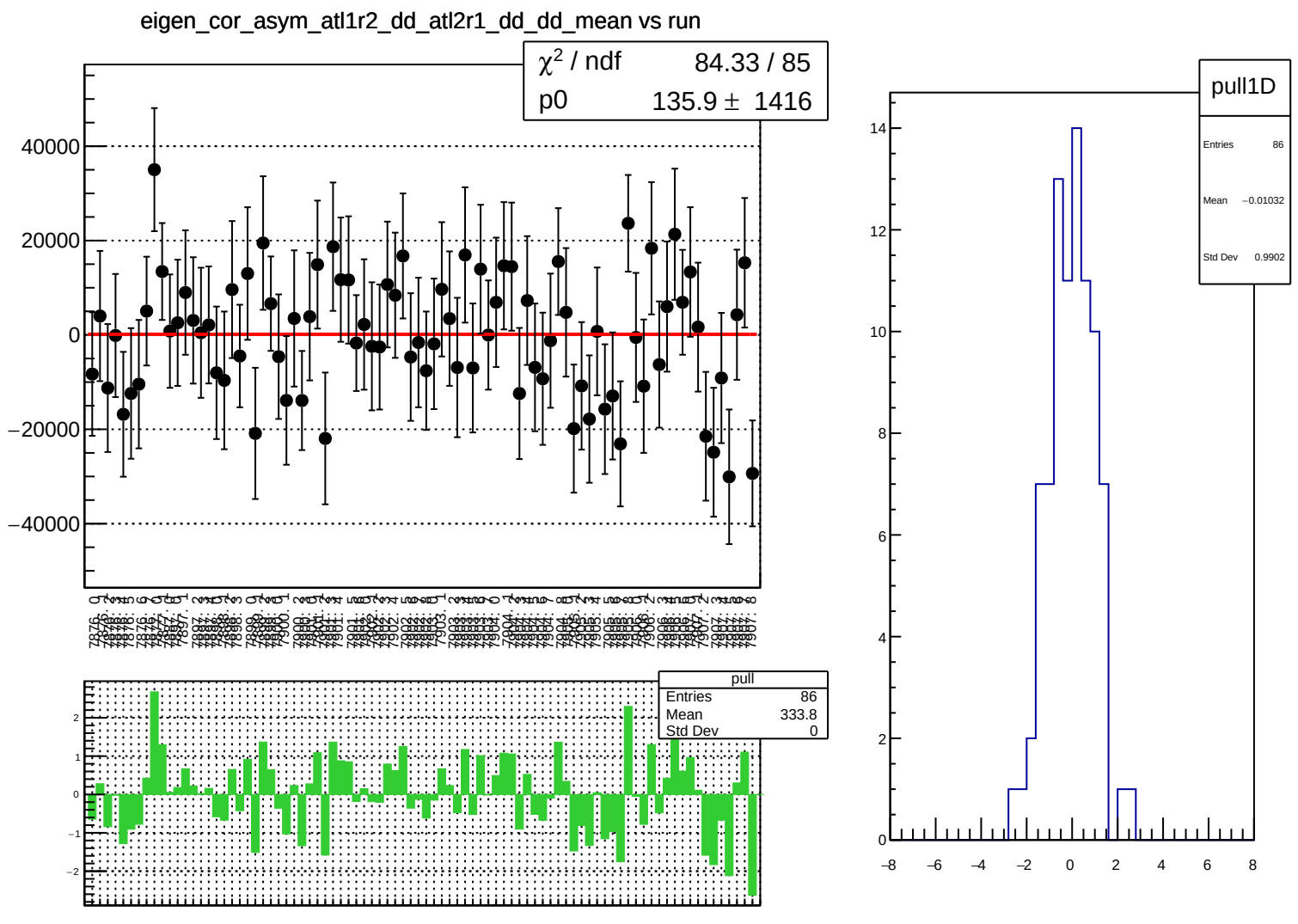

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 84.33 / 85
p0 135.9 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 333.8
Std Dev 0
2
1
0
−1
−2

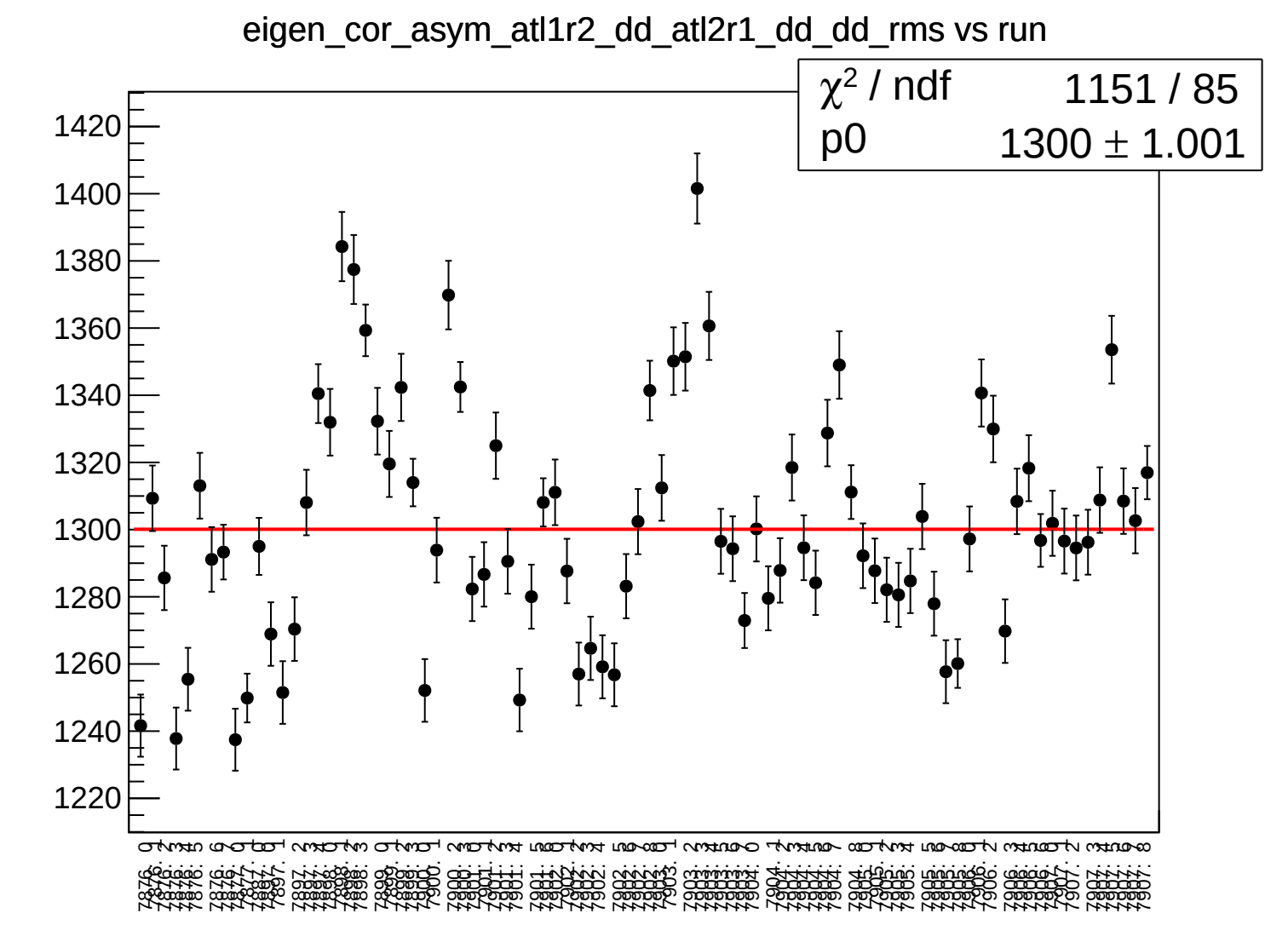

pull1D
Entries 86
Mean −0.01032
Std Dev 0.9902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

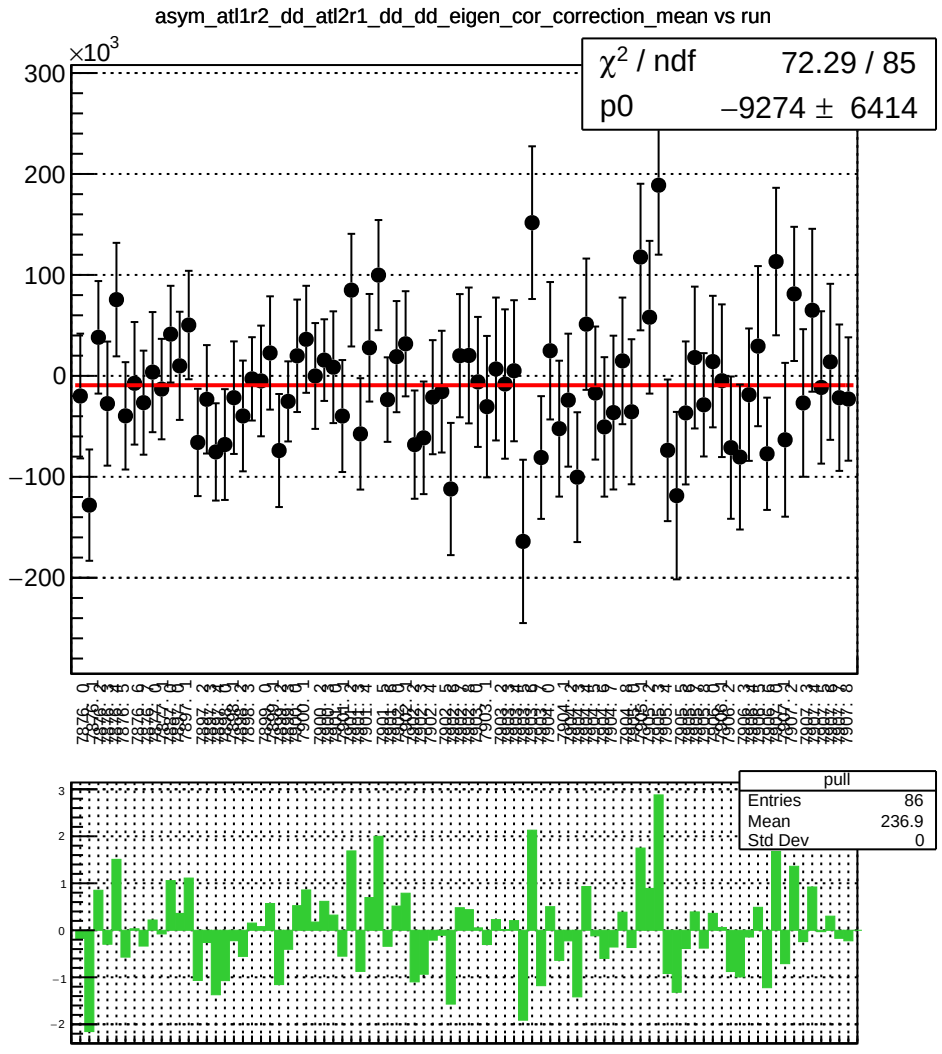

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1151 / 85
p0 1300 ± 1.001
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

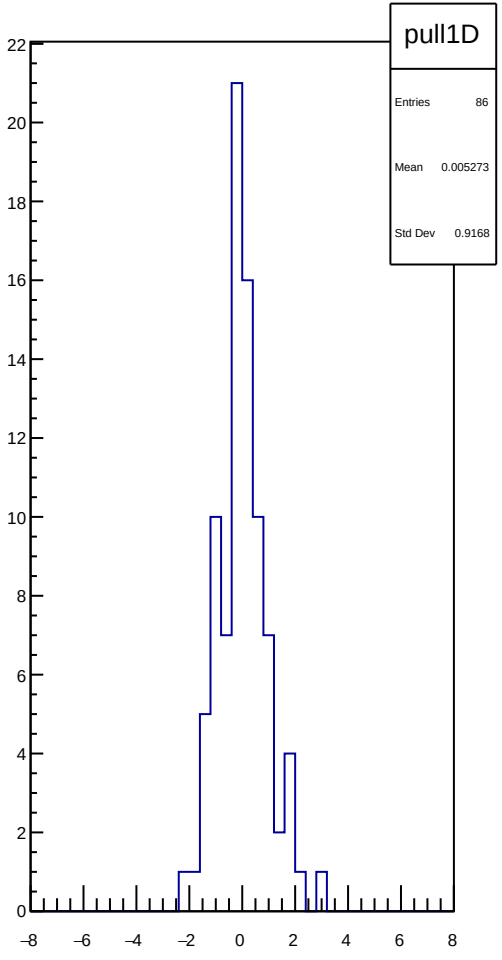

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
χ² / ndf 72.29 / 85
p0 −9274 ± 6414
pull
Entries 86
Mean 236.9
Std Dev 0
pull1D
Entries 86
Mean 0.005273
Std Dev 0.9168

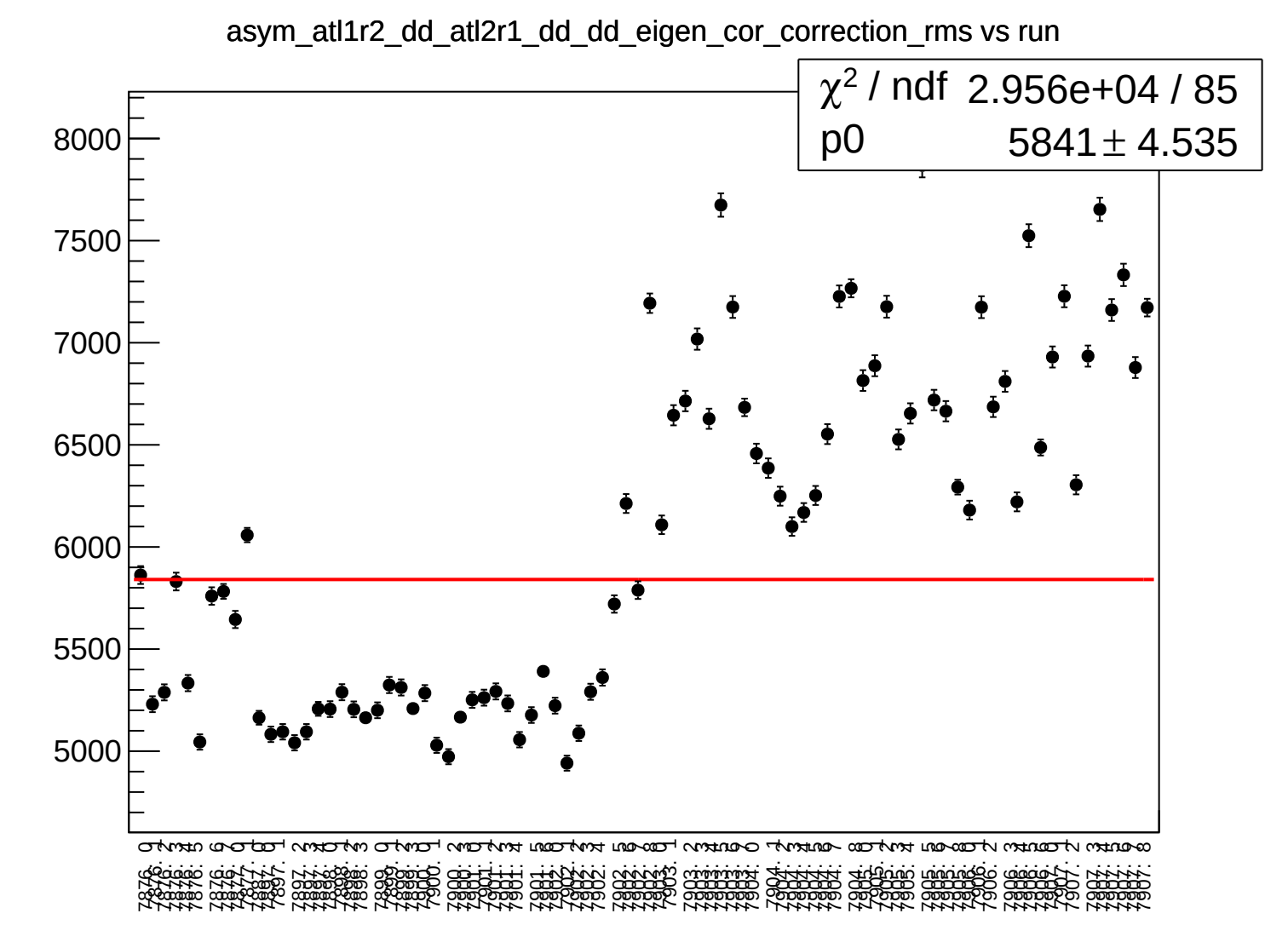

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ^2 / ndf 2.956e+04 / 85
p0 5841 ± 4.535
8000
7500
7000
6500
6000
5500
5000

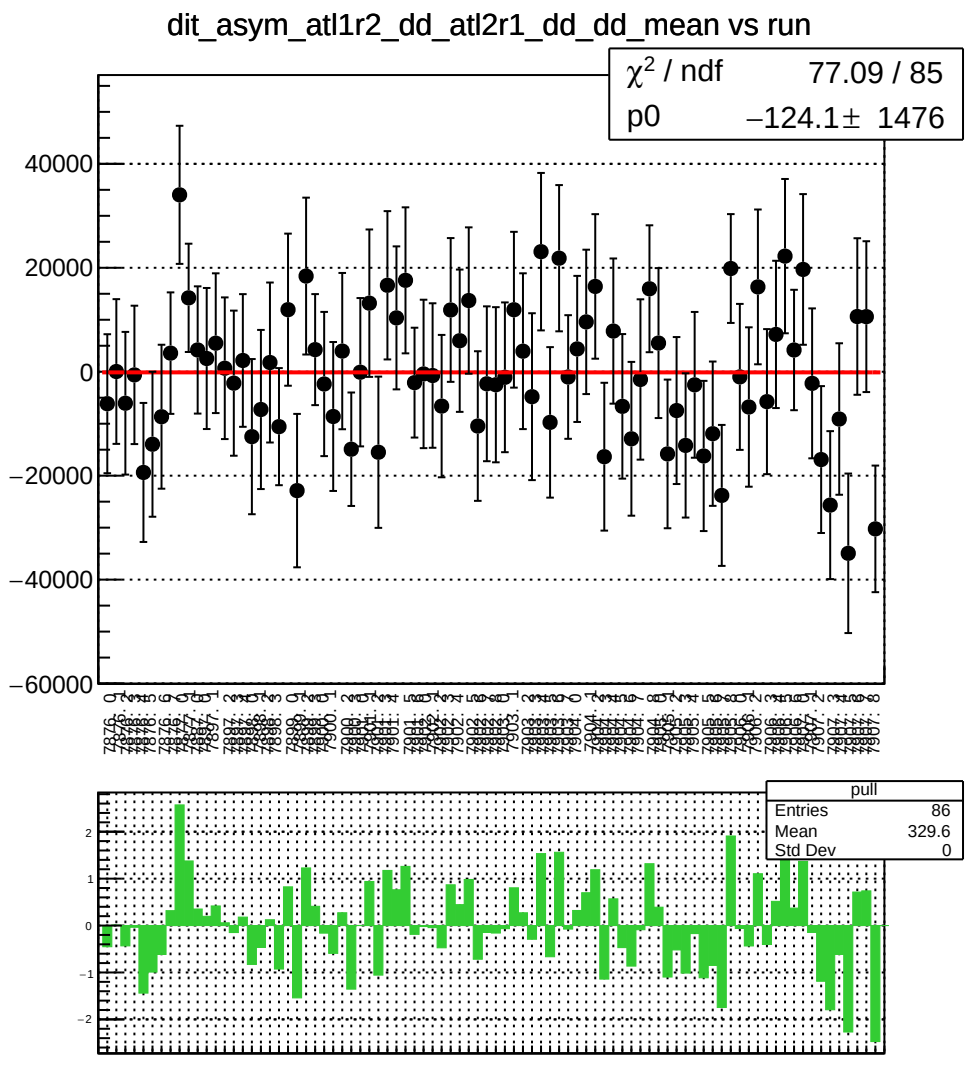

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 84.33 / 85
p0 135.9 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 333.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01032
Std Dev 0.9902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

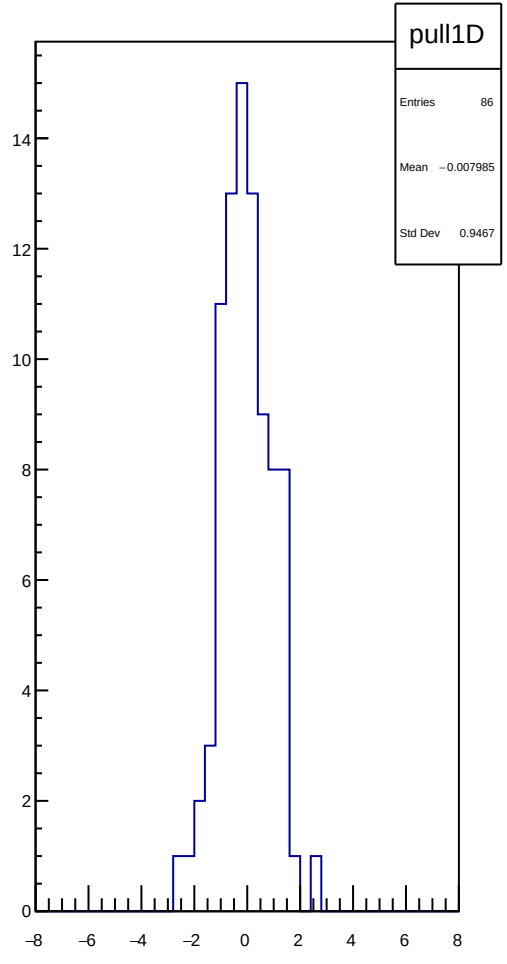

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1151 / 85
p0 1300 ± 1.001
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

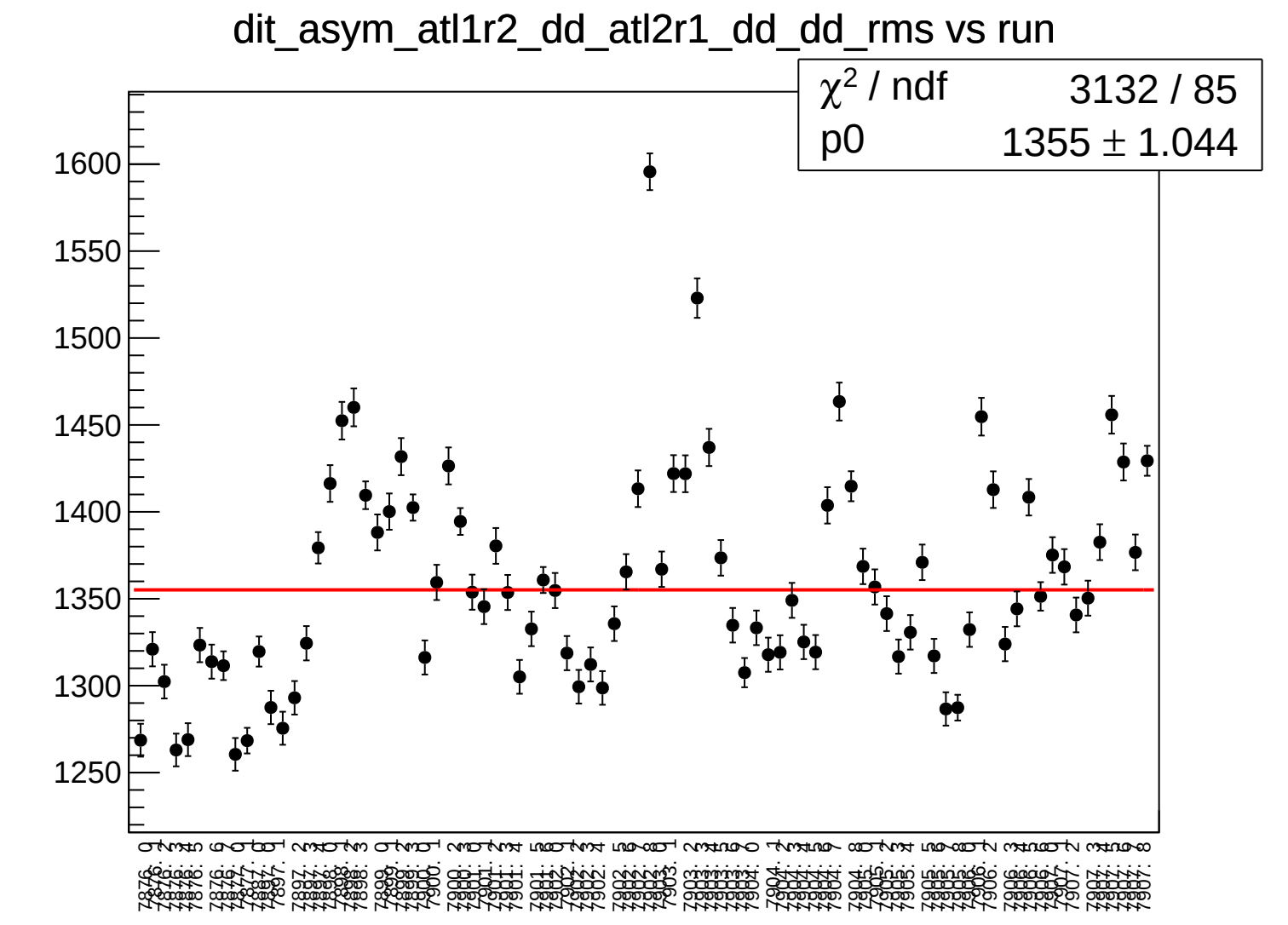

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.29 / 85
p0 −9274 ± 6414
pull
Entries 86
Mean 236.9
Std Dev 0

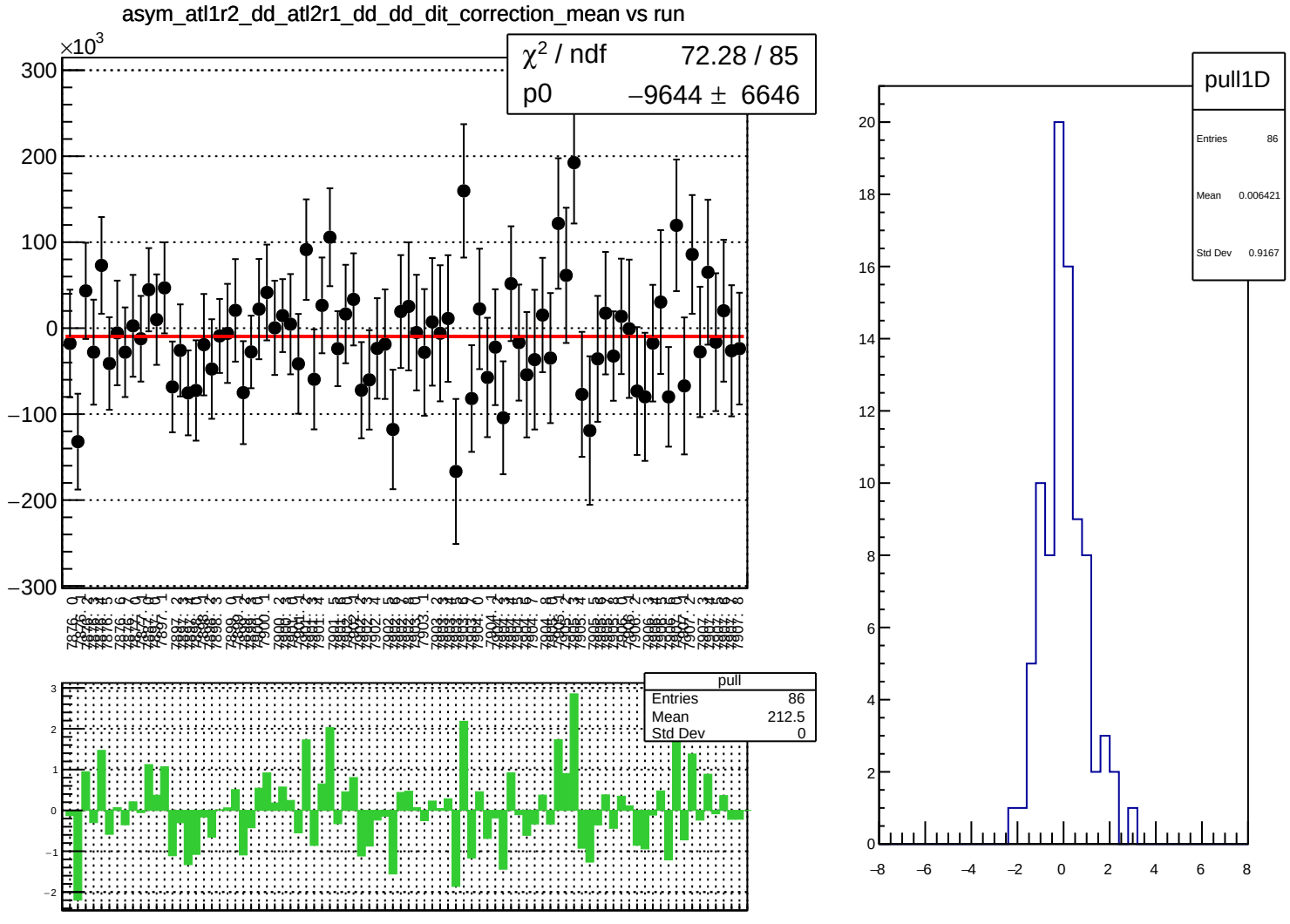

pull1D
Entries 86
Mean 0.005273
Std Dev 0.9168

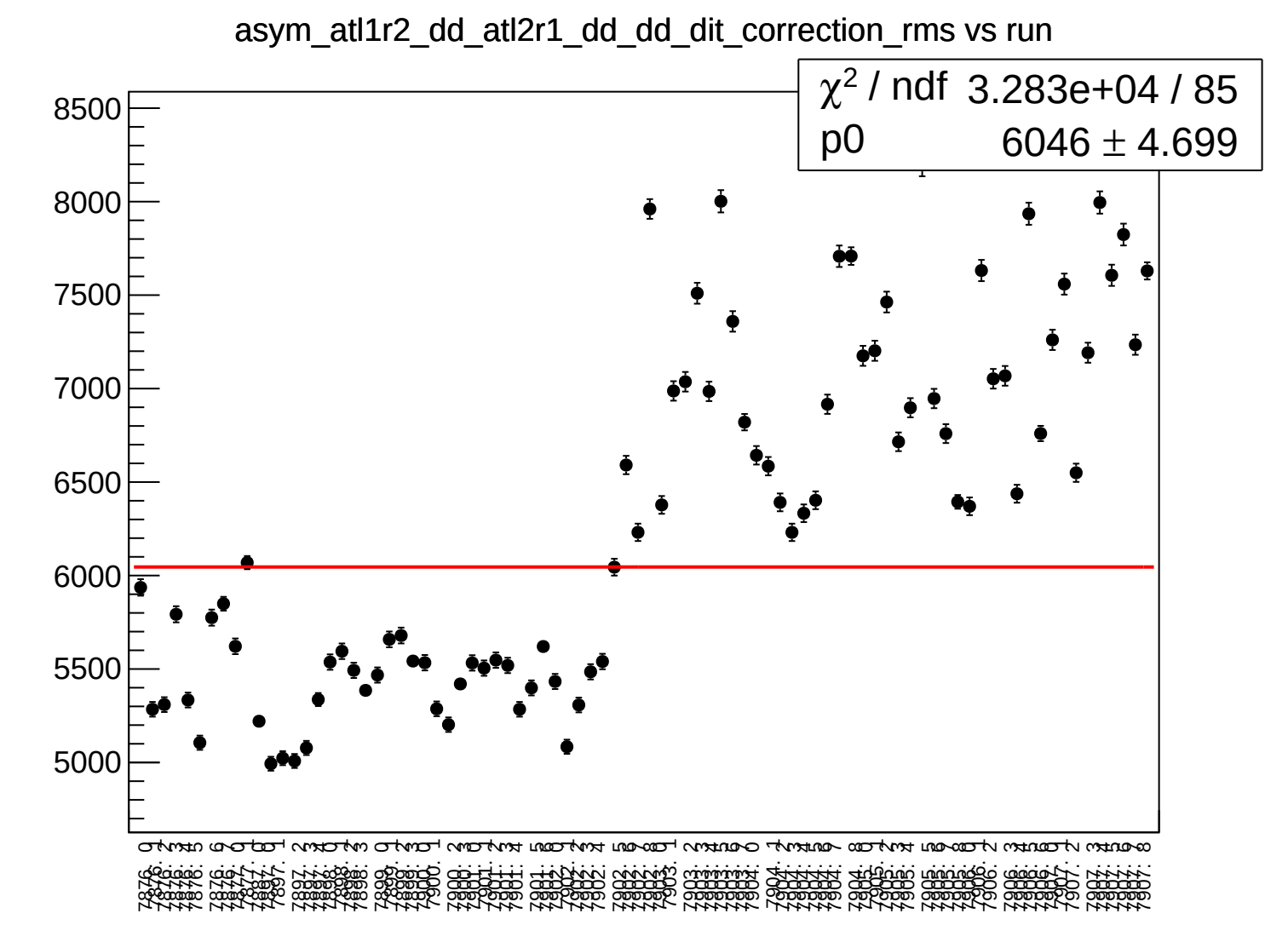

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.956e+04 / 85
p0 5841 ± 4.535
8000
7500
7000
6500
6000
5500
5000

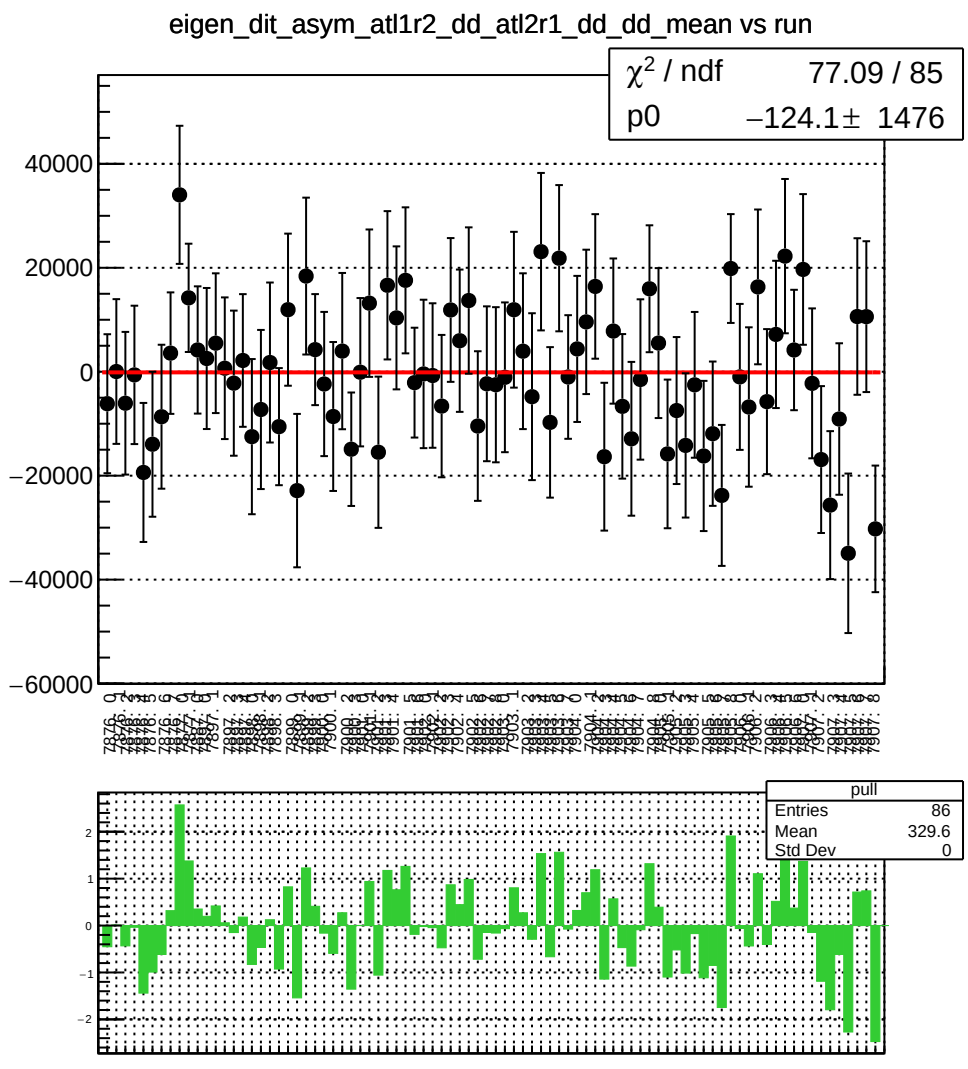

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 77.09 / 85
p0 −124.1± 1476
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 329.6
Std Dev 0
2
1
0
−1
−2

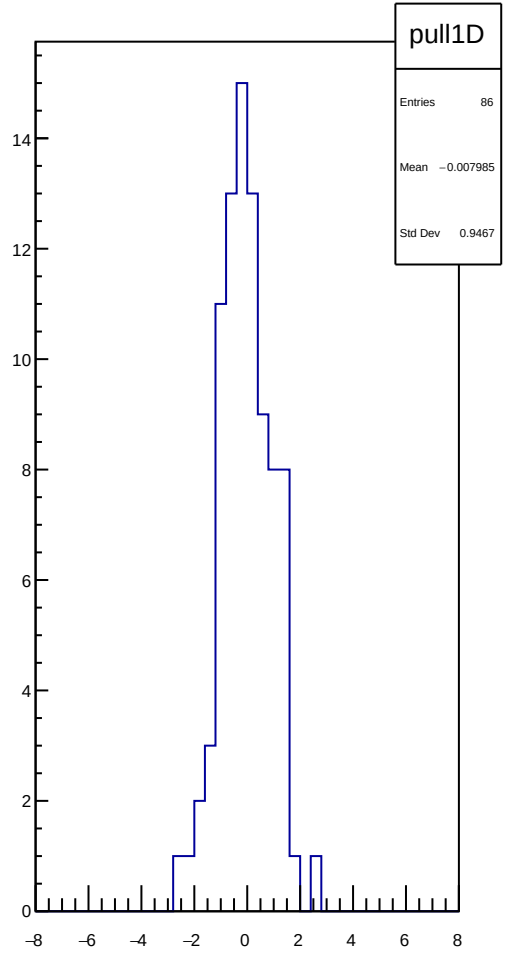

pull1D
Entries 86
Mean −0.007985
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

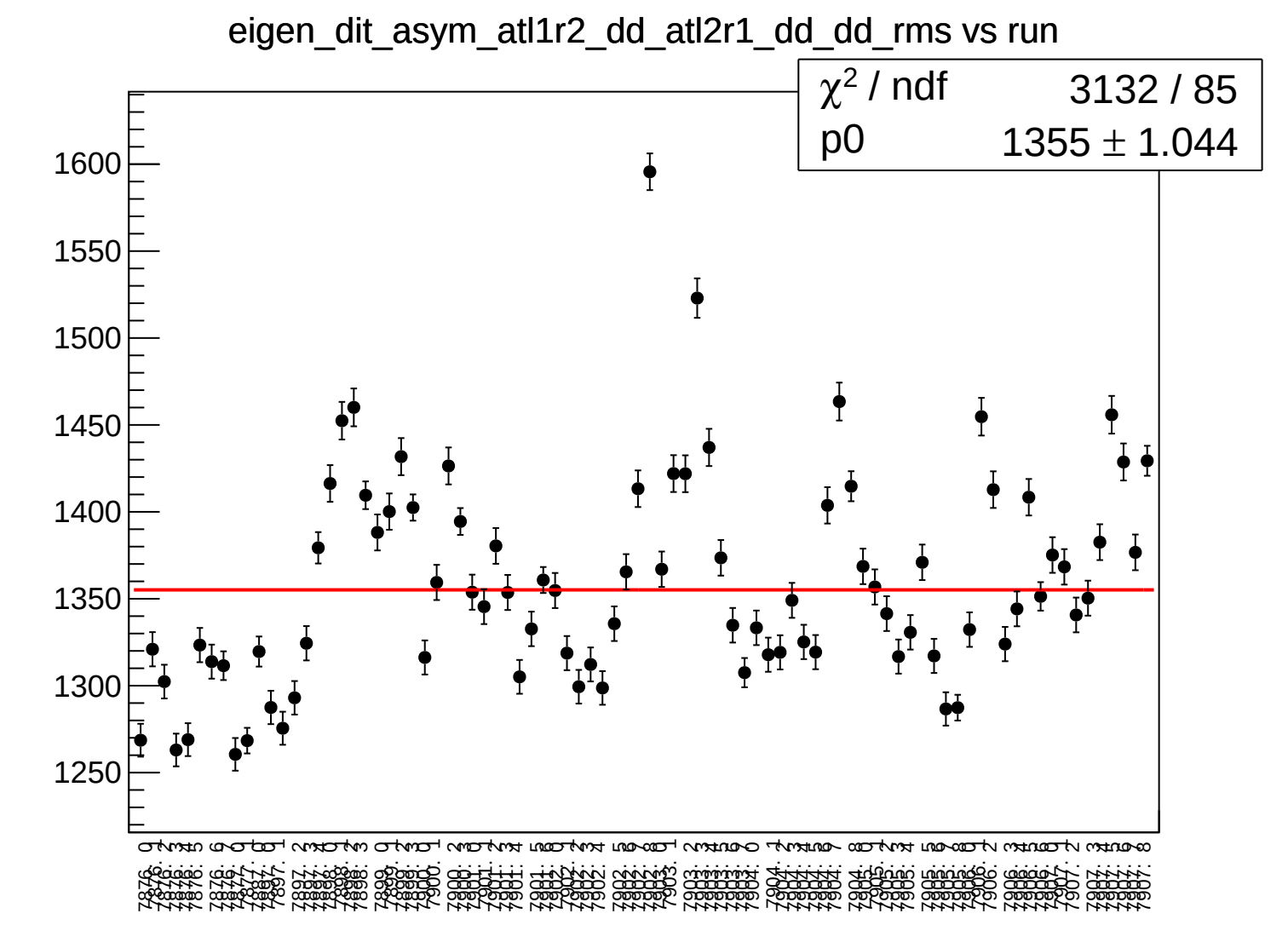

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 3132 / 85
p0 1355 ± 1.044
1600
1550
1500
1450
1400
1350
1300
1250

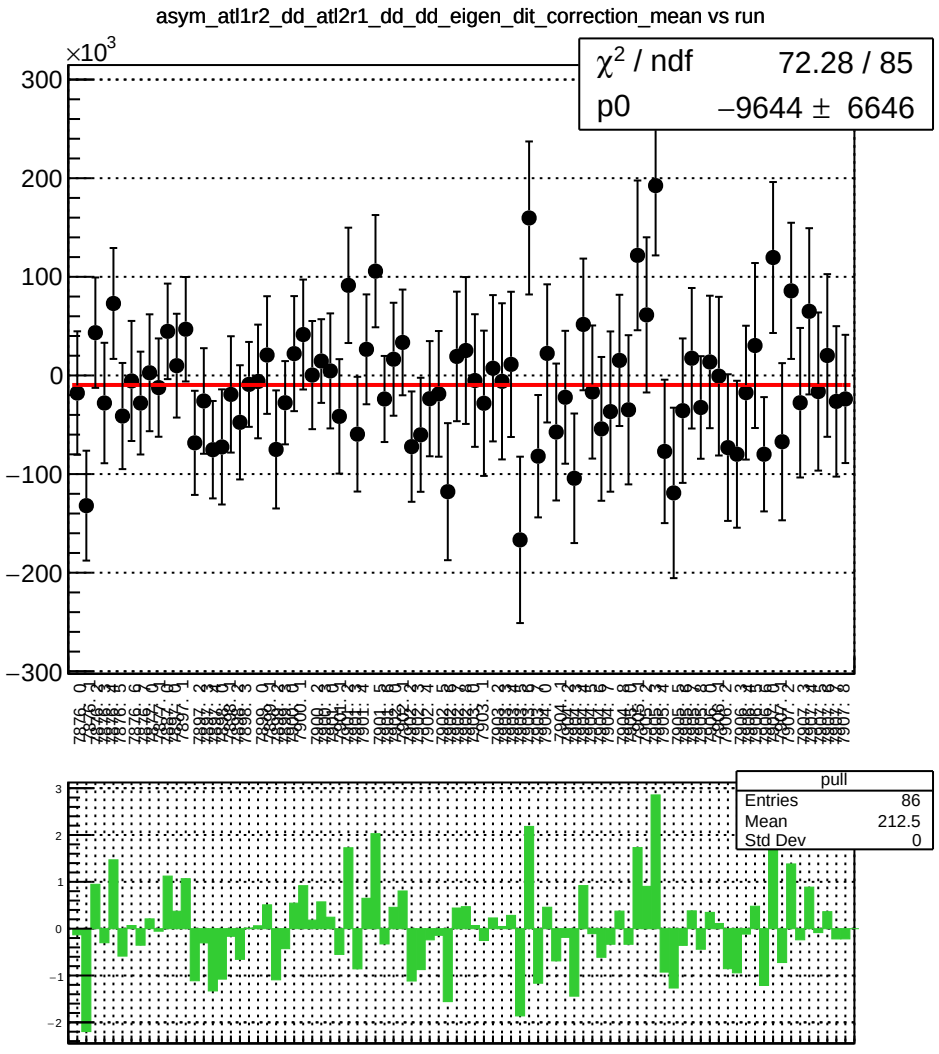

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 72.28 / 85
p0 −9644 ± 6646
pull
Entries 86
Mean 212.5
Std Dev 0
pull1D
Entries 86
Mean 0.006421
Std Dev 0.9167

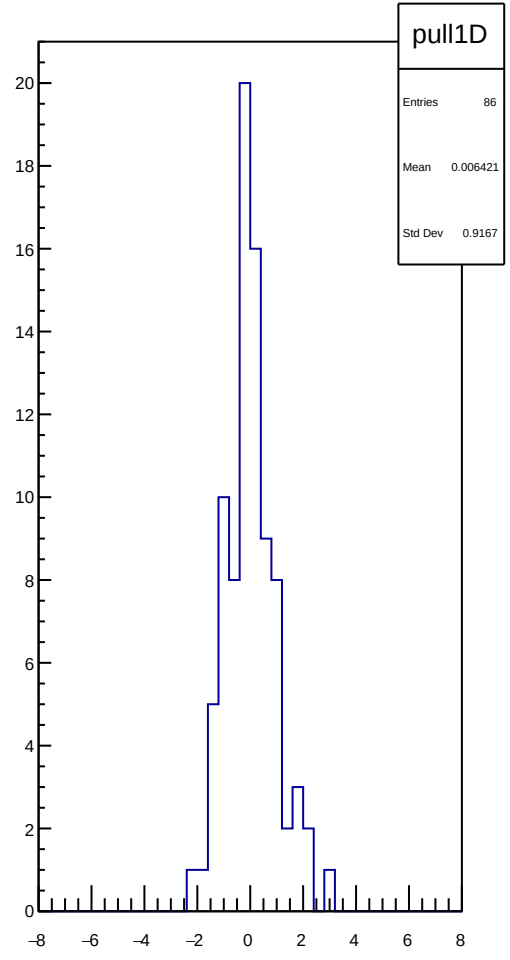

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3.283e+04 / 85
p0 6046 ± 4.699
8500
8000
7500
7000
6500
6000
5500
5000

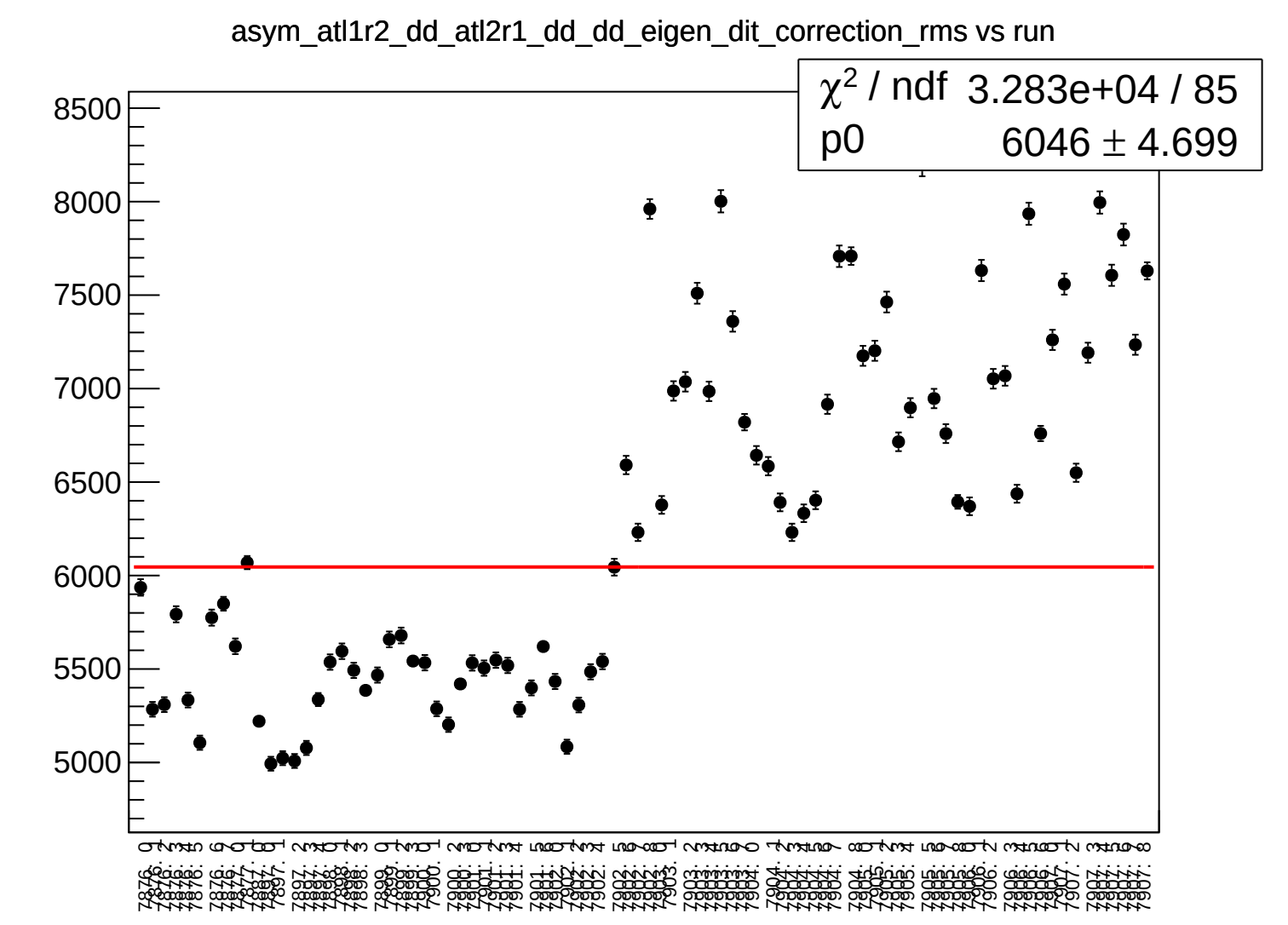

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 77.09 / 85
p0 −124.1± 1476
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 329.6
Std Dev 0
2
1
0
−1
−2

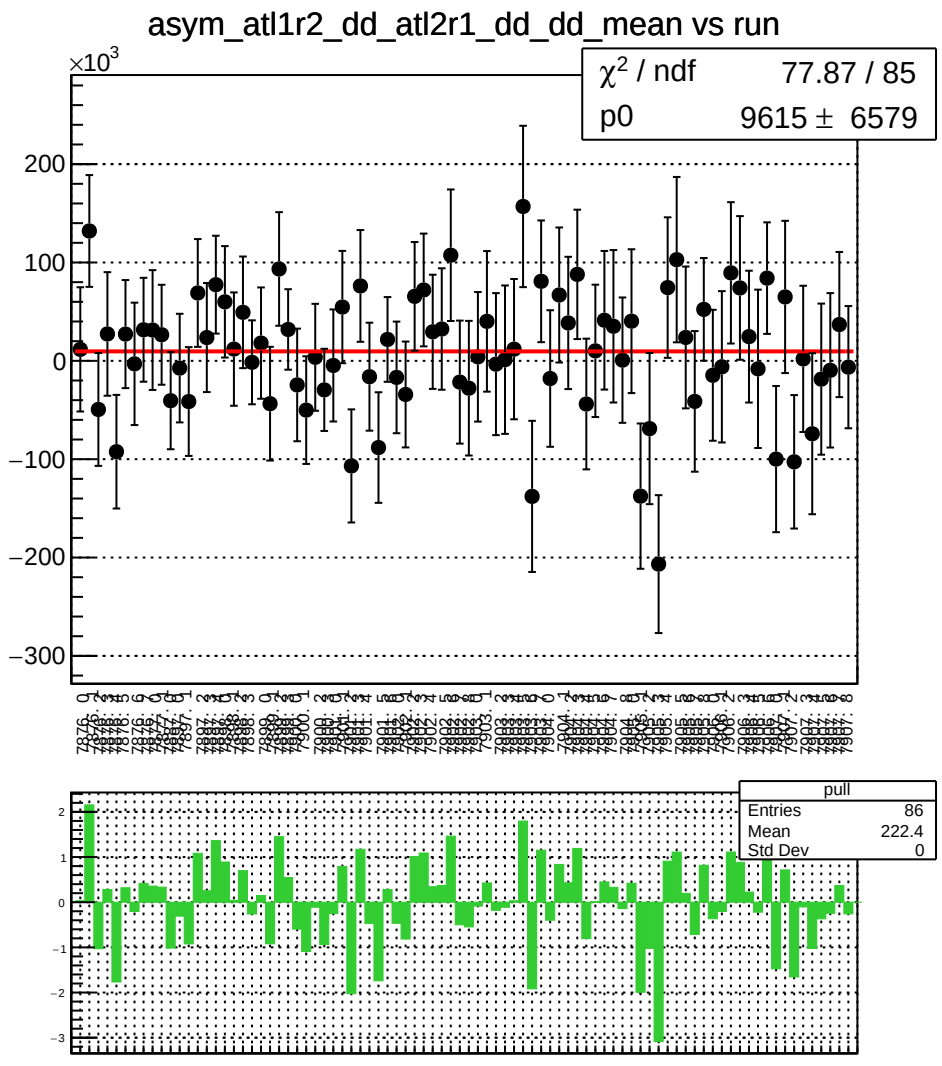

pull1D
Entries 86
Mean −0.007985
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

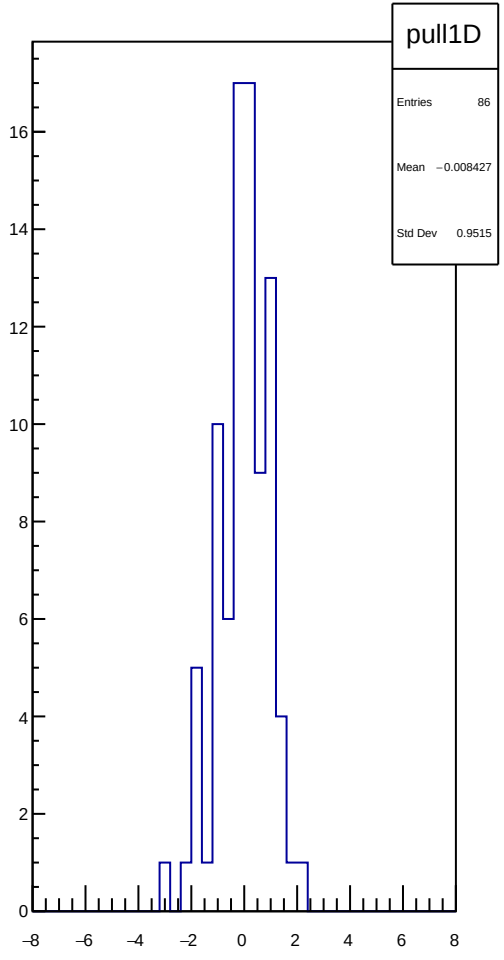

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3132 / 85
p0 1355 ± 1.044
1600
1550
1500
1450
1400
1350
1300
1250

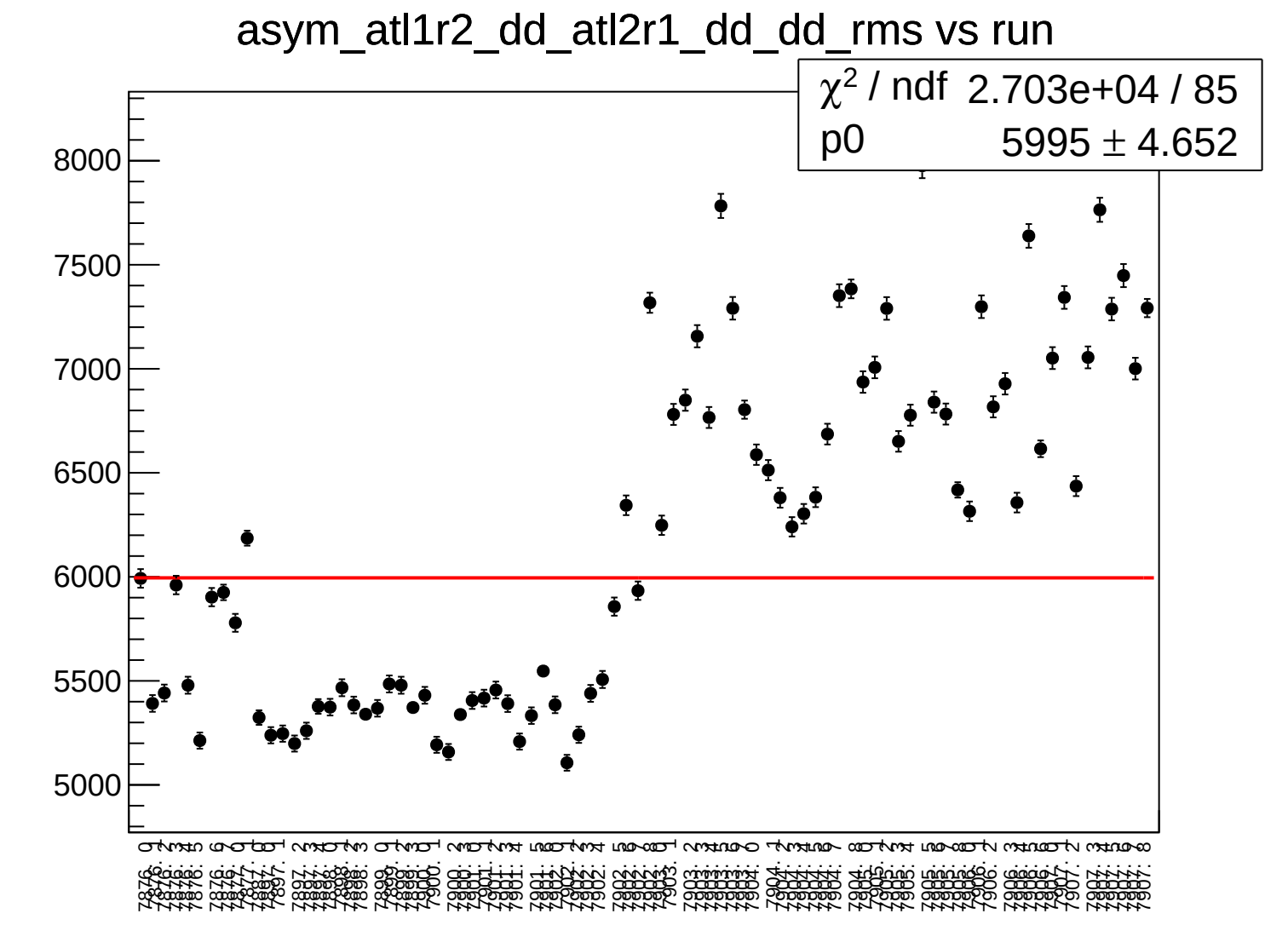

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.28 / 85
p0 −9644 ± 6646
pull
Entries 86
Mean 212.5
Std Dev 0

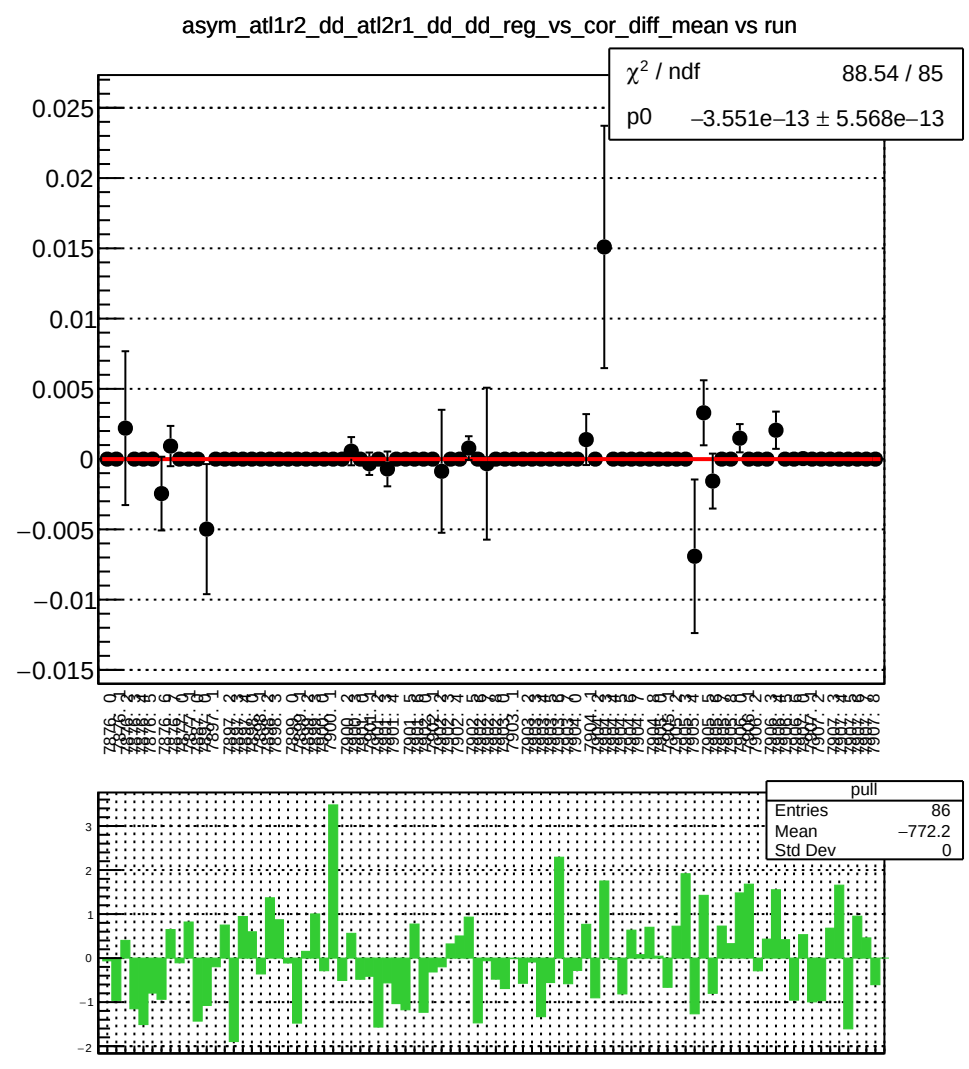

pull1D
Entries 86
Mean 0.006421
Std Dev 0.9167

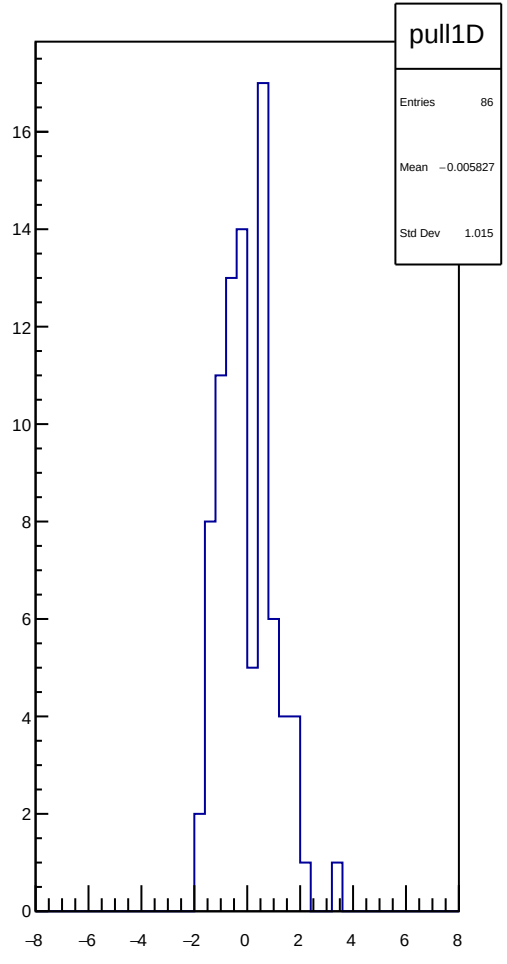

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.283e+04 / 85
p0 6046 ± 4.699
8500
8000
7500
7000
6500
6000
5500
5000

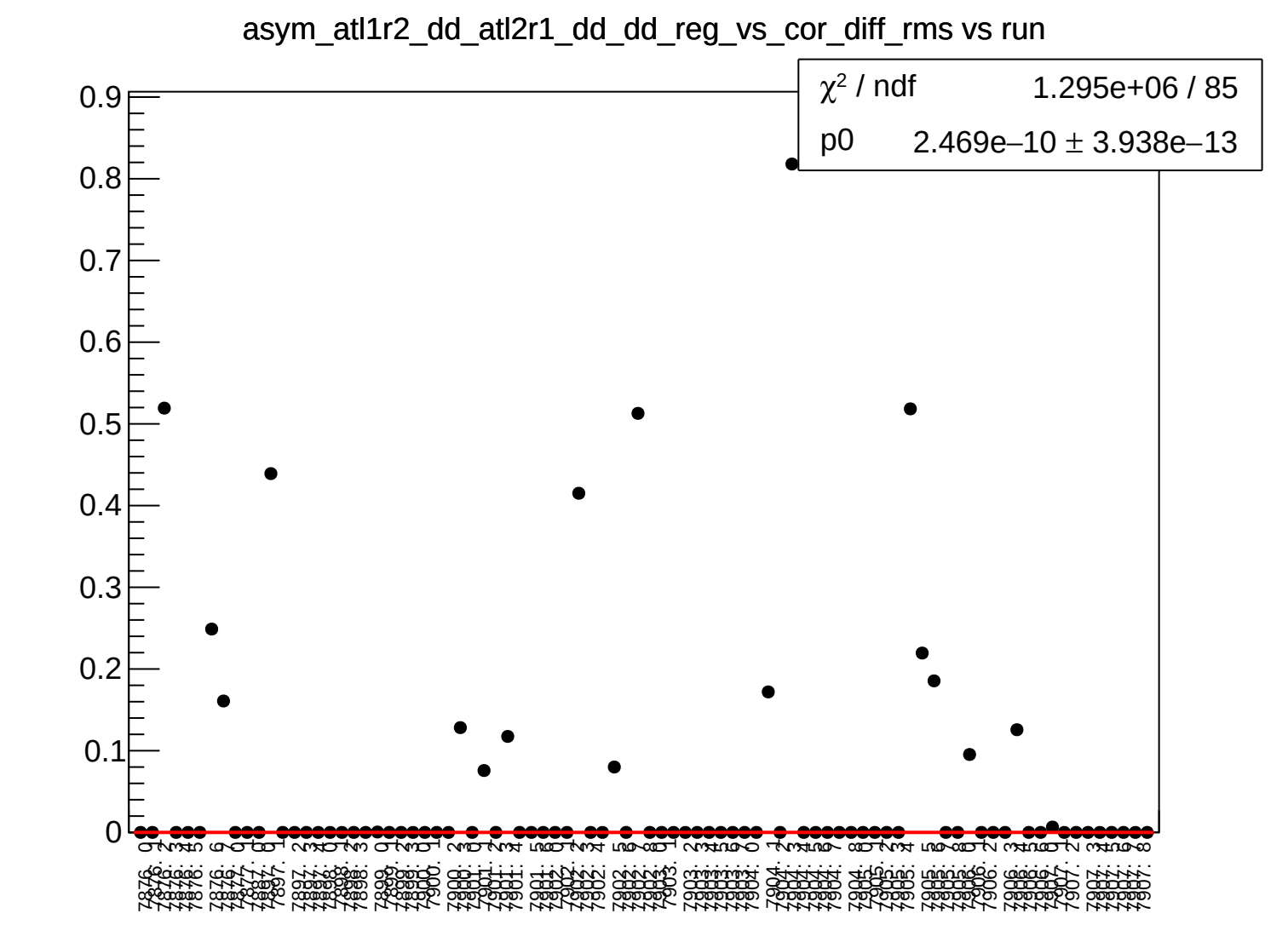

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 77.87 / 85
p0 9615 ± 6579
200
100
0
−100
−200
−300
pull
Entries 86
Mean 222.4
Std Dev 0
2
1
0
−1
−2
−3

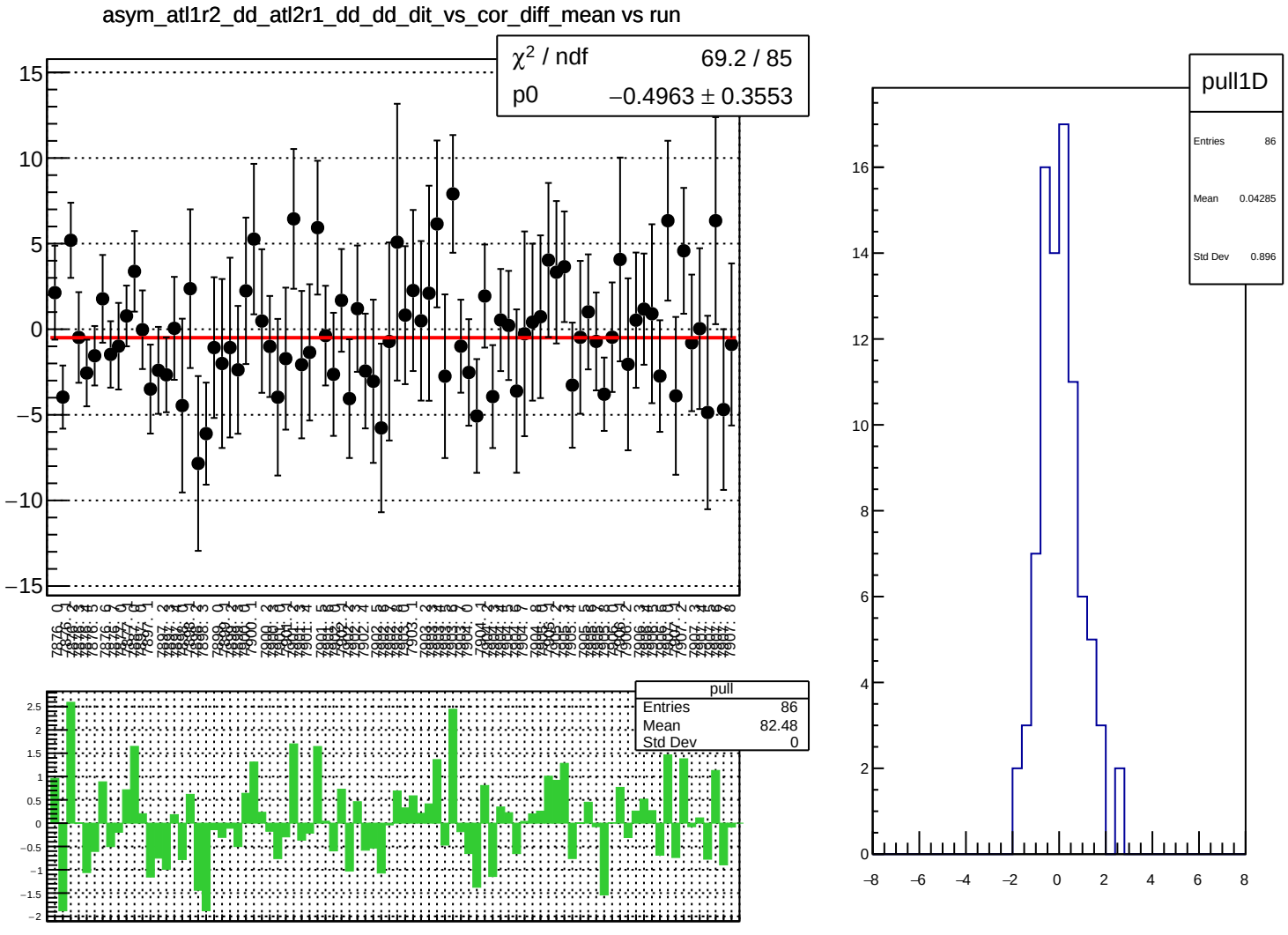

pull1D
Entries 86
Mean −0.008427
Std Dev 0.9515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

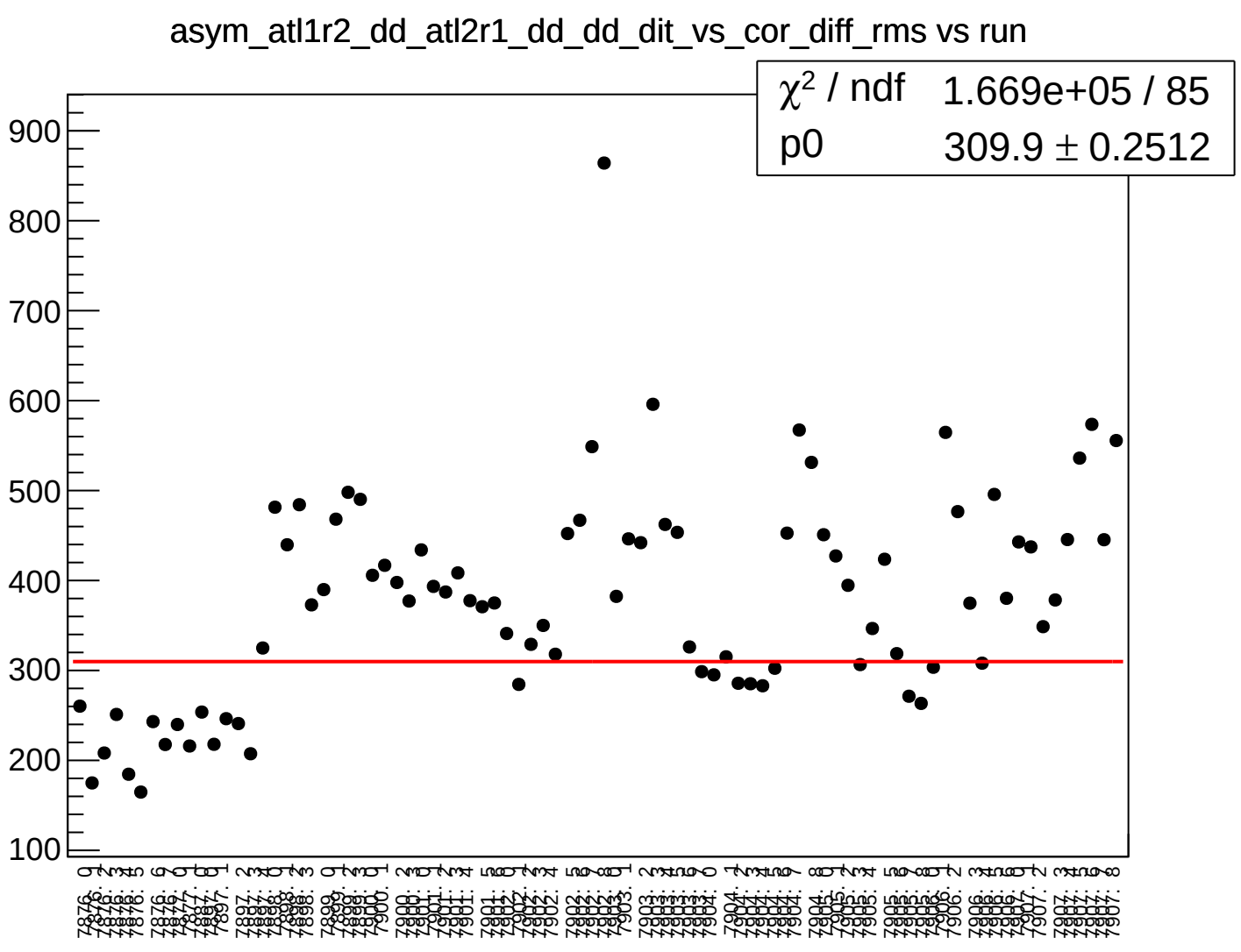

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2.703e+04 / 85
p0 5995 ± 4.652
8000
7500
7000
6500
6000
5500
5000

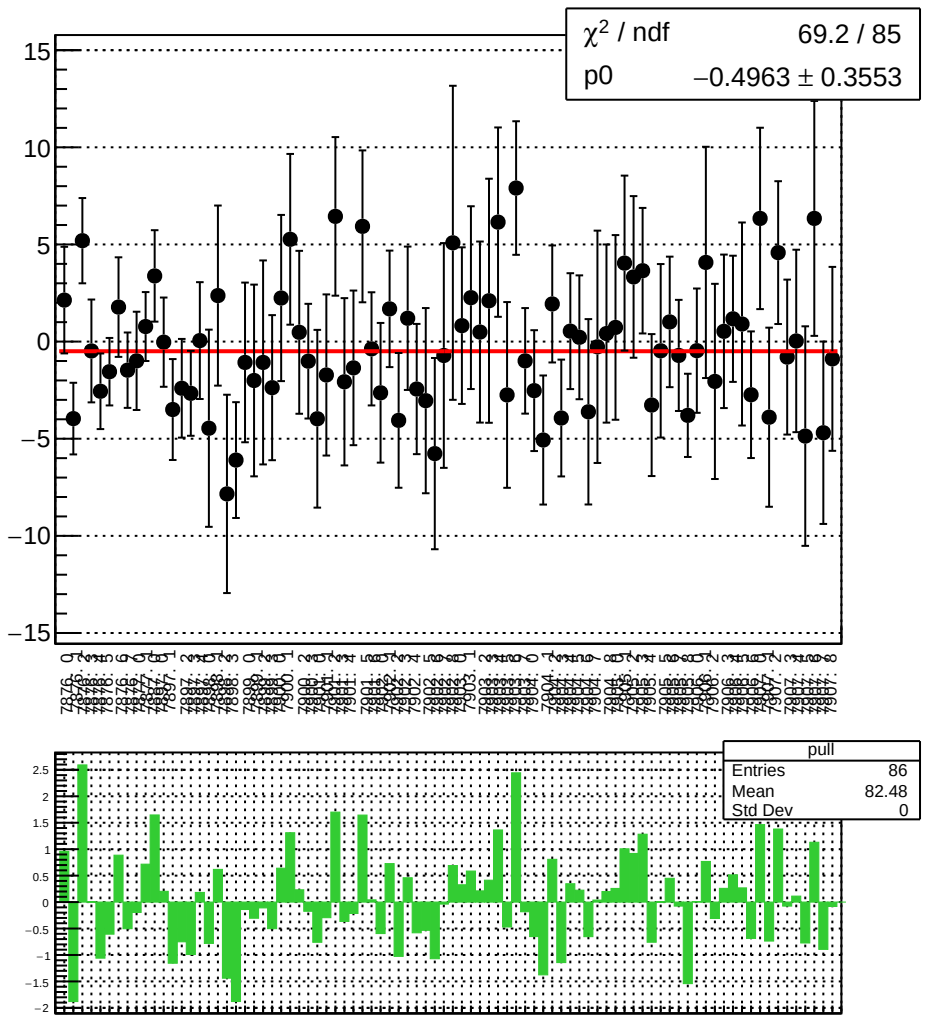

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.54 / 85
p0 −3.551e−13 ± 5.568e−13
pull
Entries 86
Mean −772.2
Std Dev 0

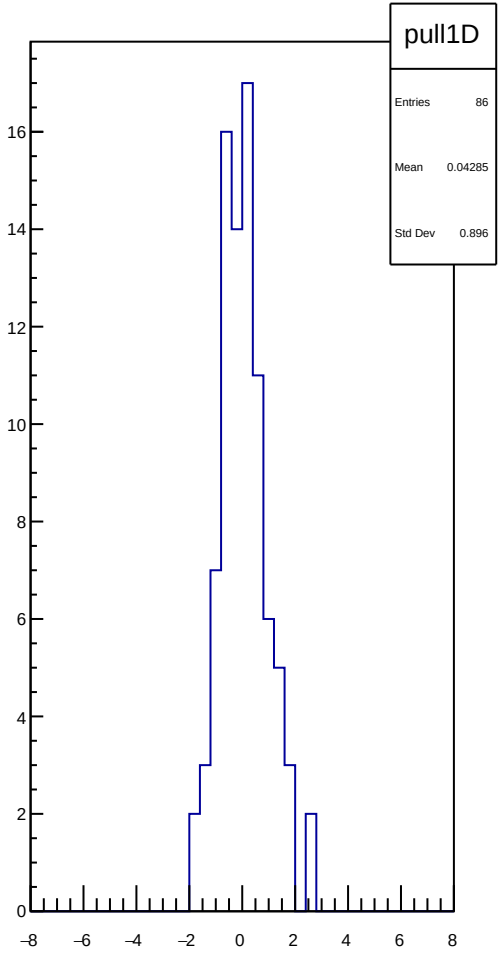

pull1D
Entries 86
Mean −0.005827
Std Dev 1.015

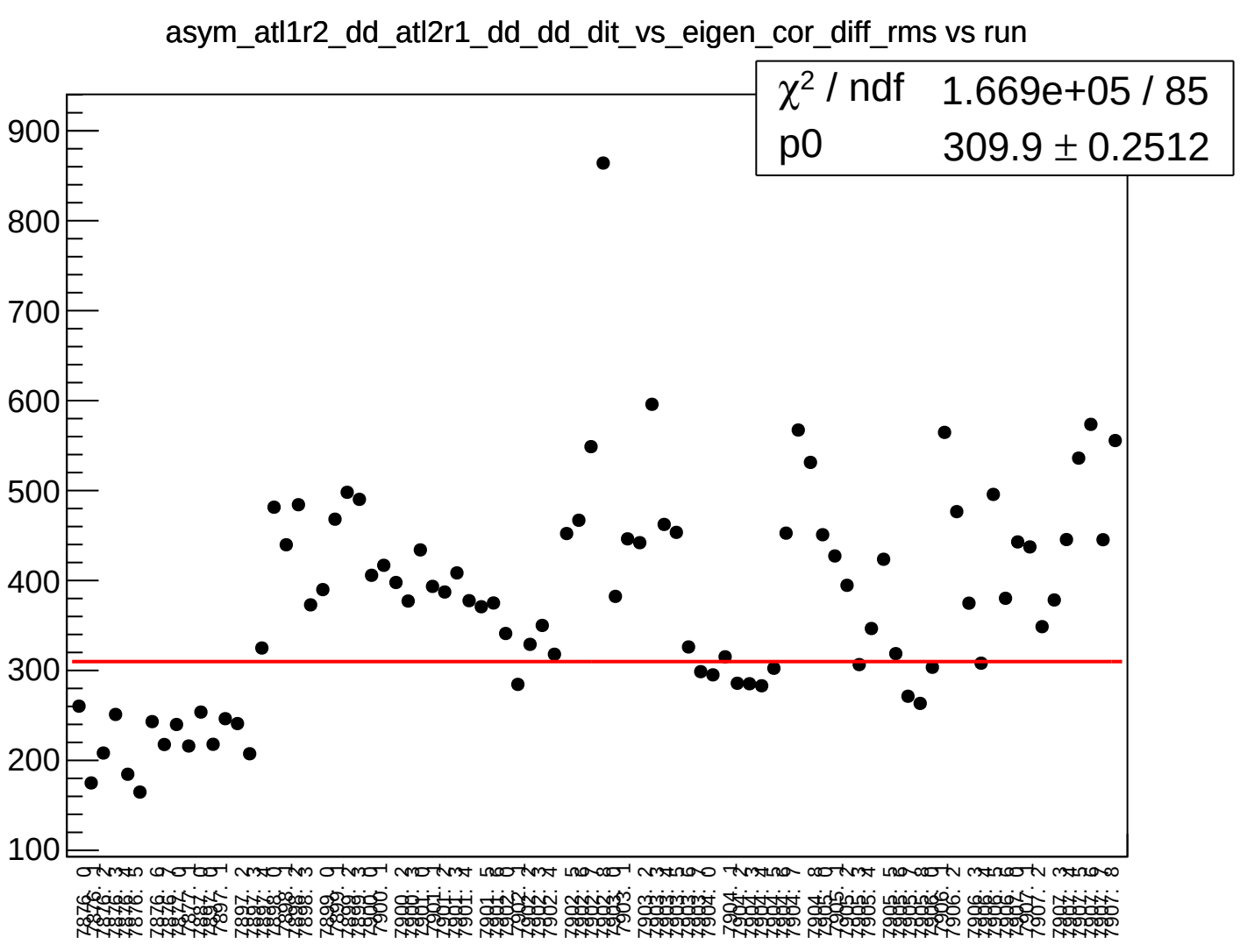

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.295e+06 / 85
p0 2.469e−10 ± 3.938e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

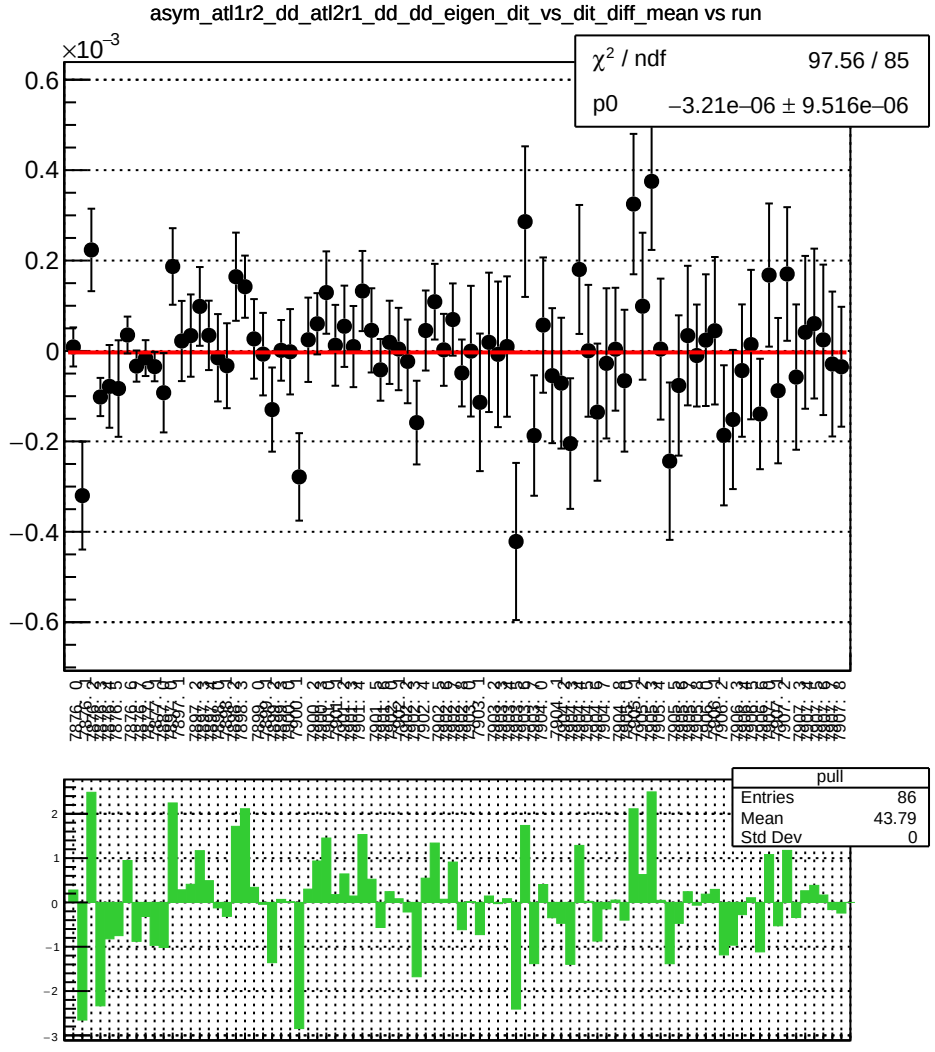

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0
pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

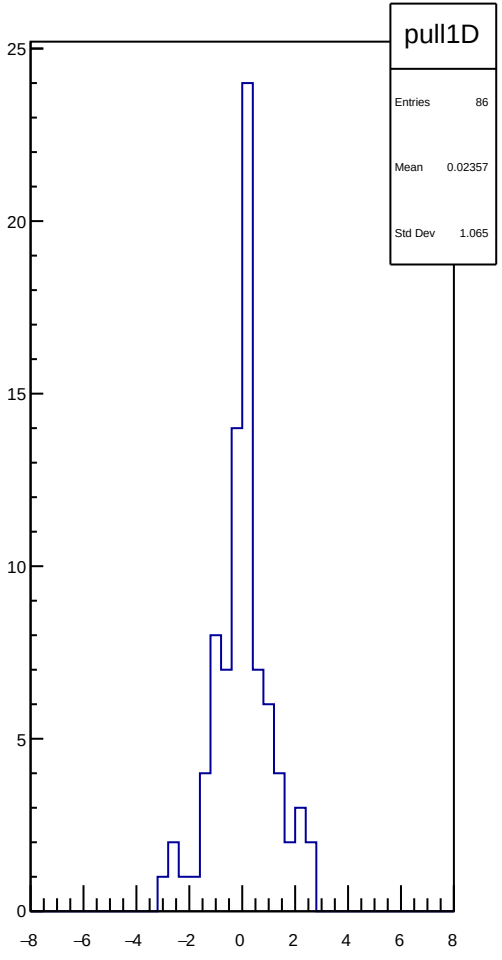

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

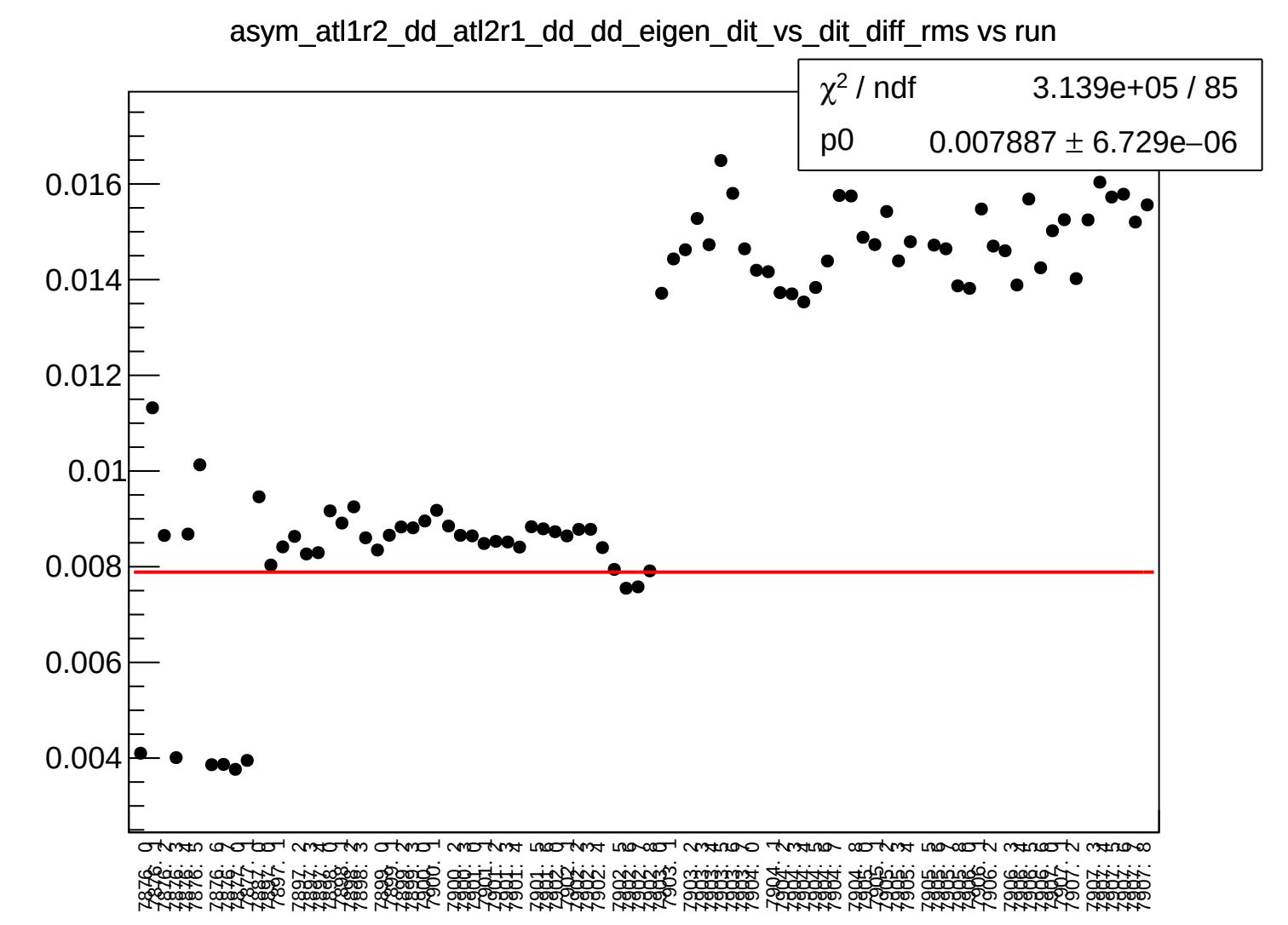

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0

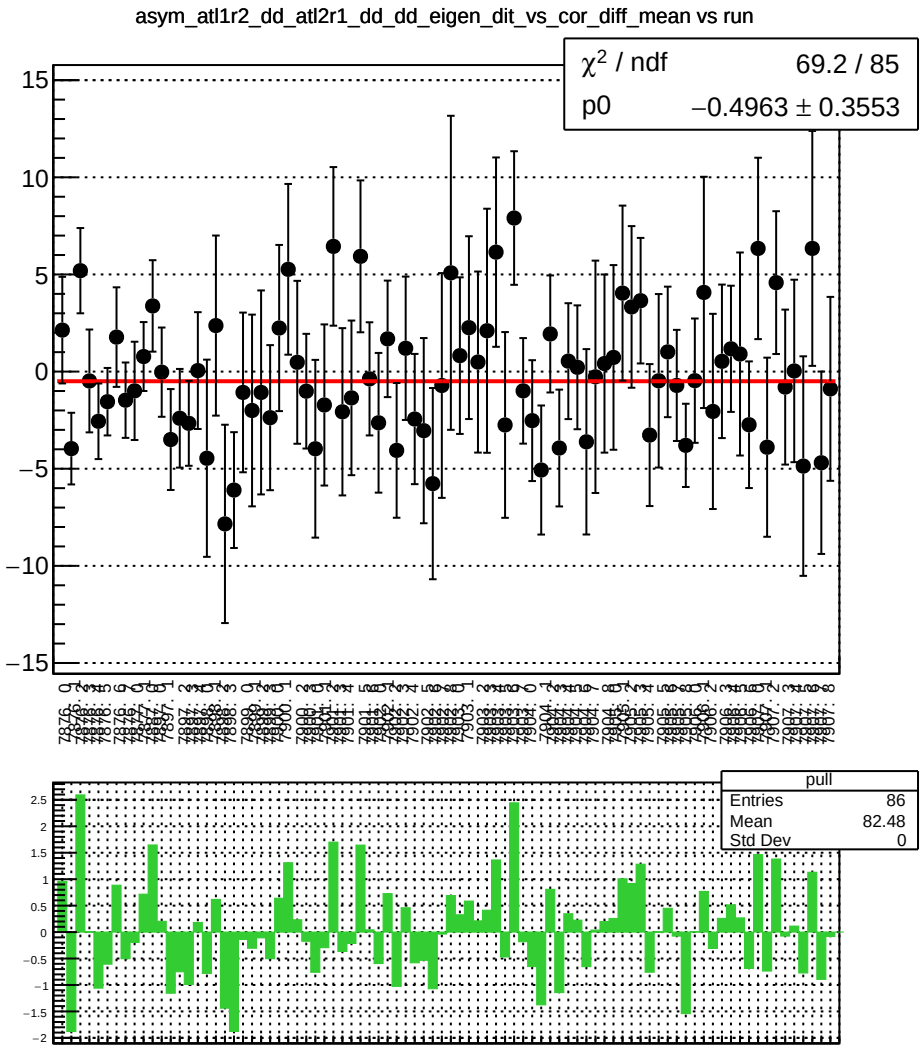

pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

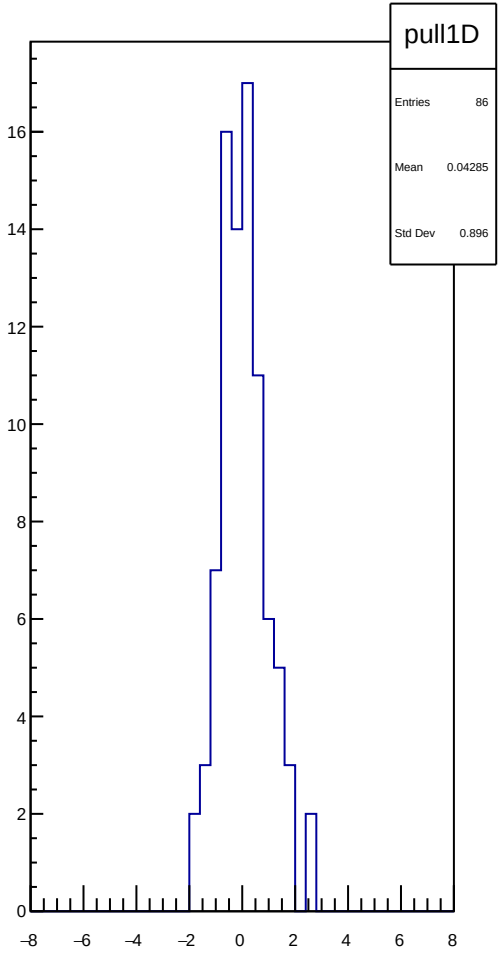

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

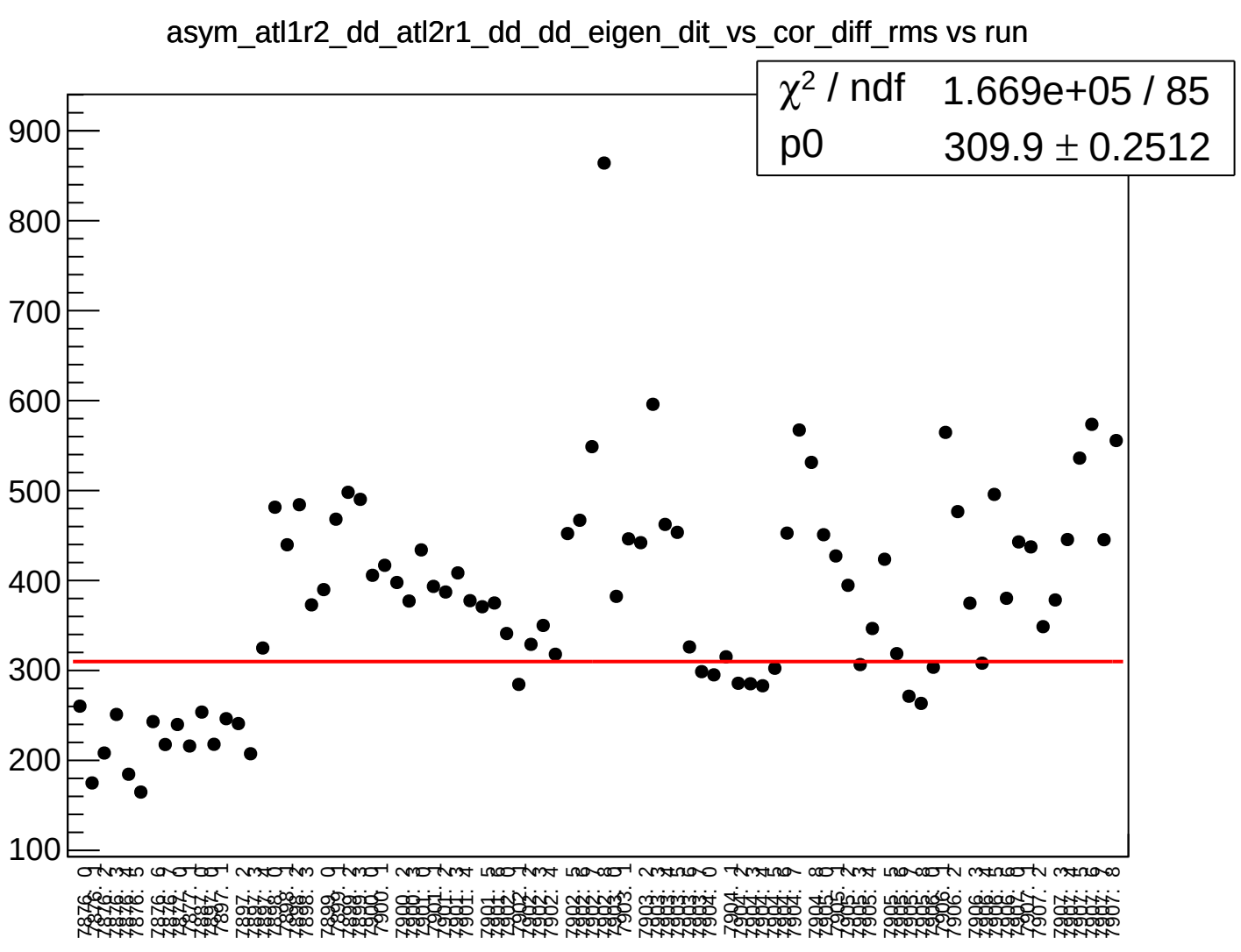

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 97.56 / 85
p0 −3.21e−06 ± 9.516e−06
pull
Entries 86
Mean 43.79
Std Dev 0

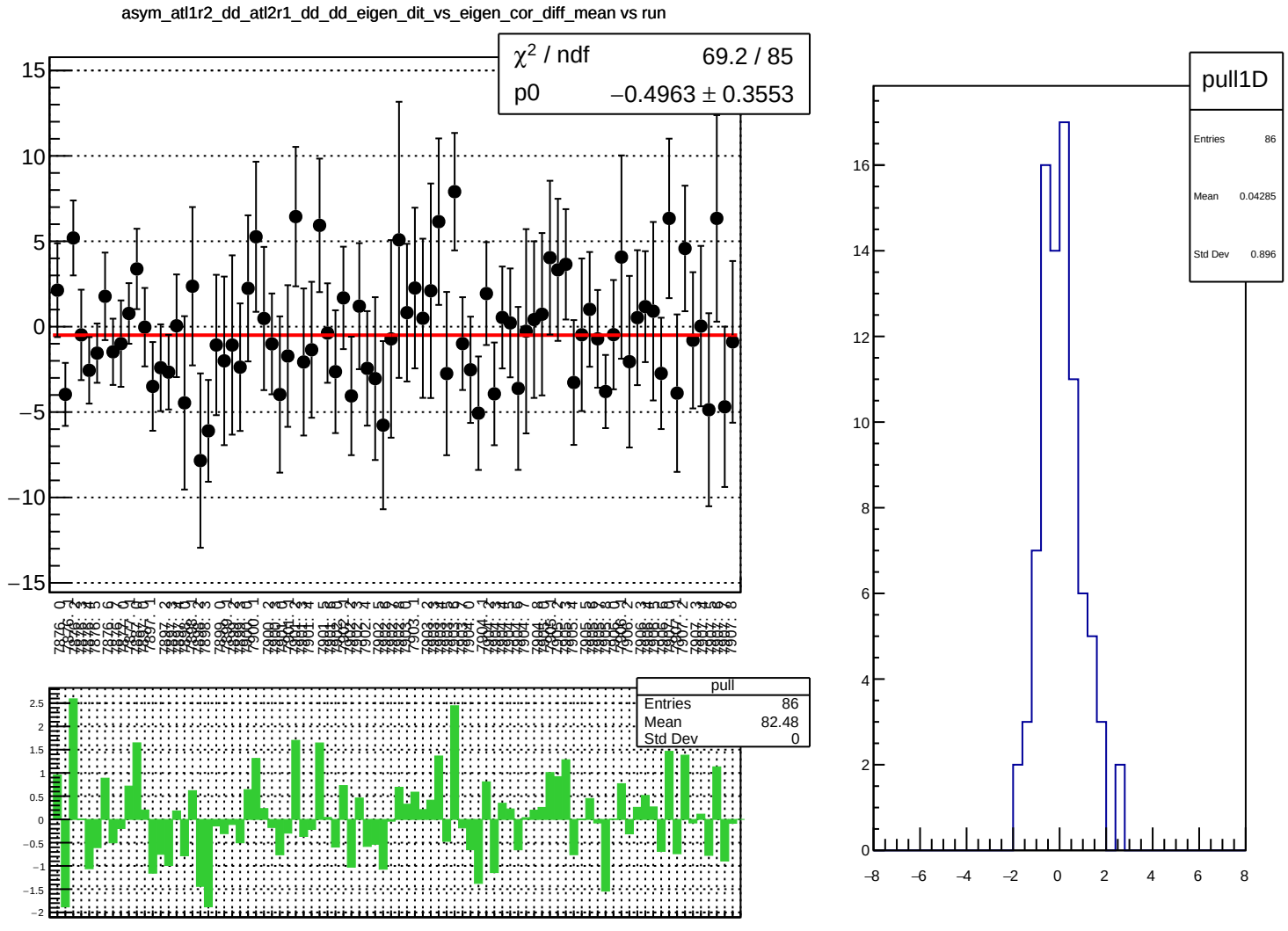

pull1D
Entries 86
Mean 0.02357
Std Dev 1.065

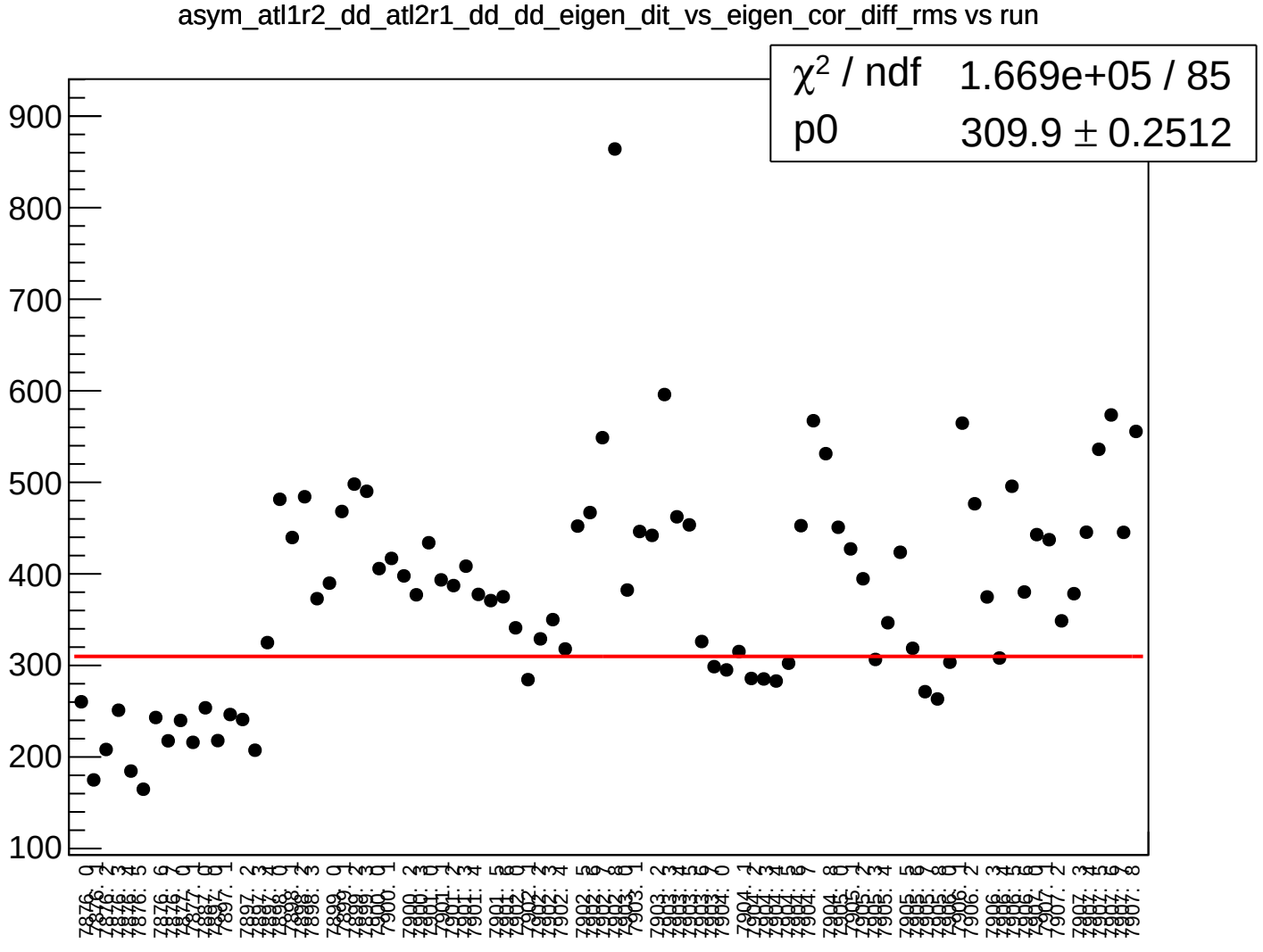

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.139e+05 / 85
p0 0.007887 ± 6.729e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

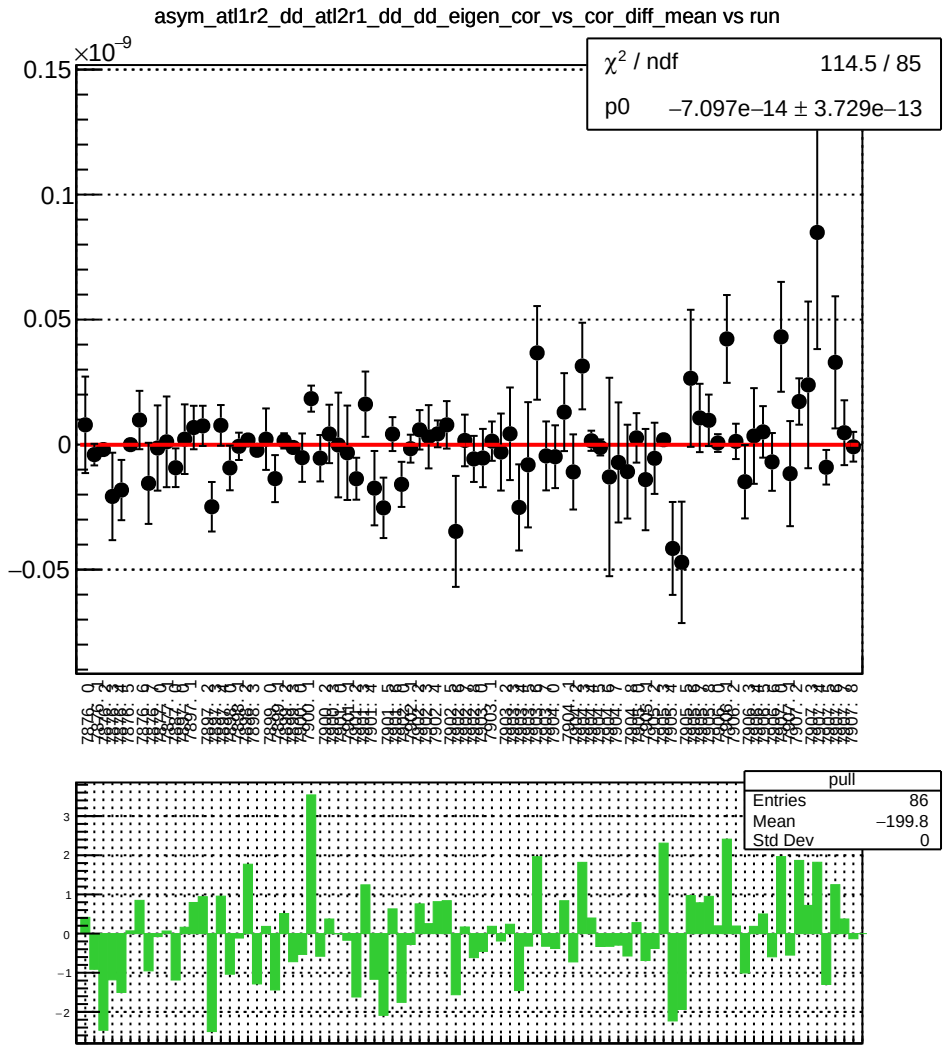

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0

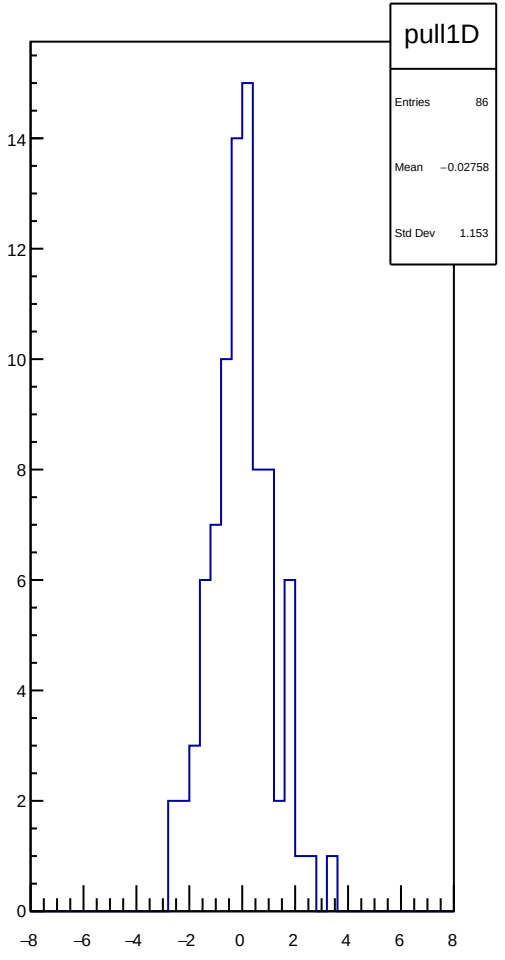

pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

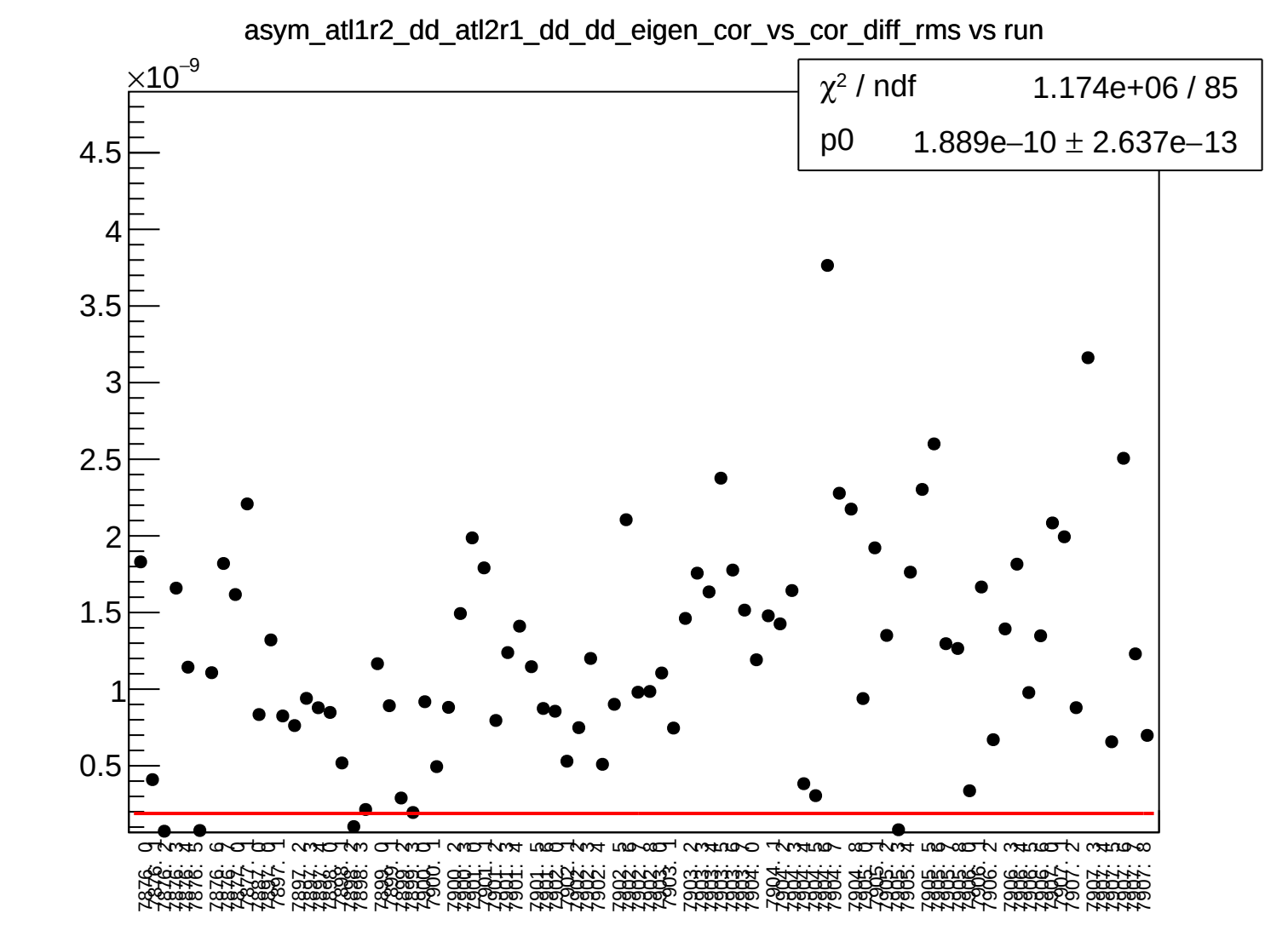

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

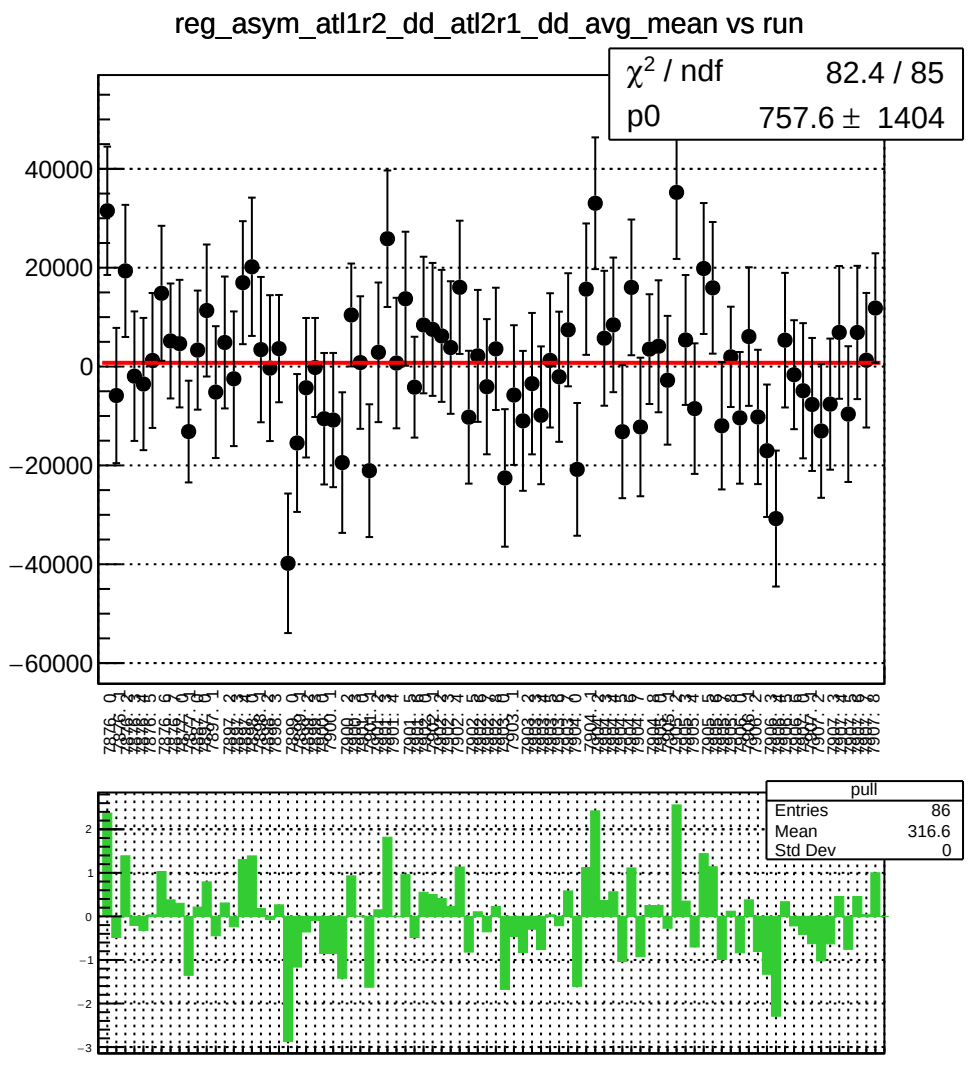

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.2 / 85
p0 −0.4963 ± 0.3553
pull
Entries 86
Mean 82.48
Std Dev 0
pull1D
Entries 86
Mean 0.04285
Std Dev 0.896

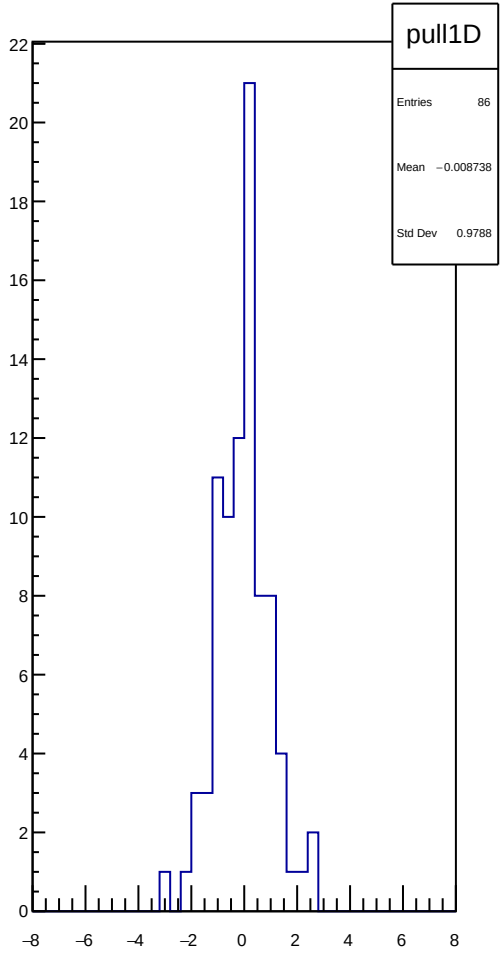

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 85
p0 309.9 ± 0.2512
900
800
700
600
500
400
300
200
100

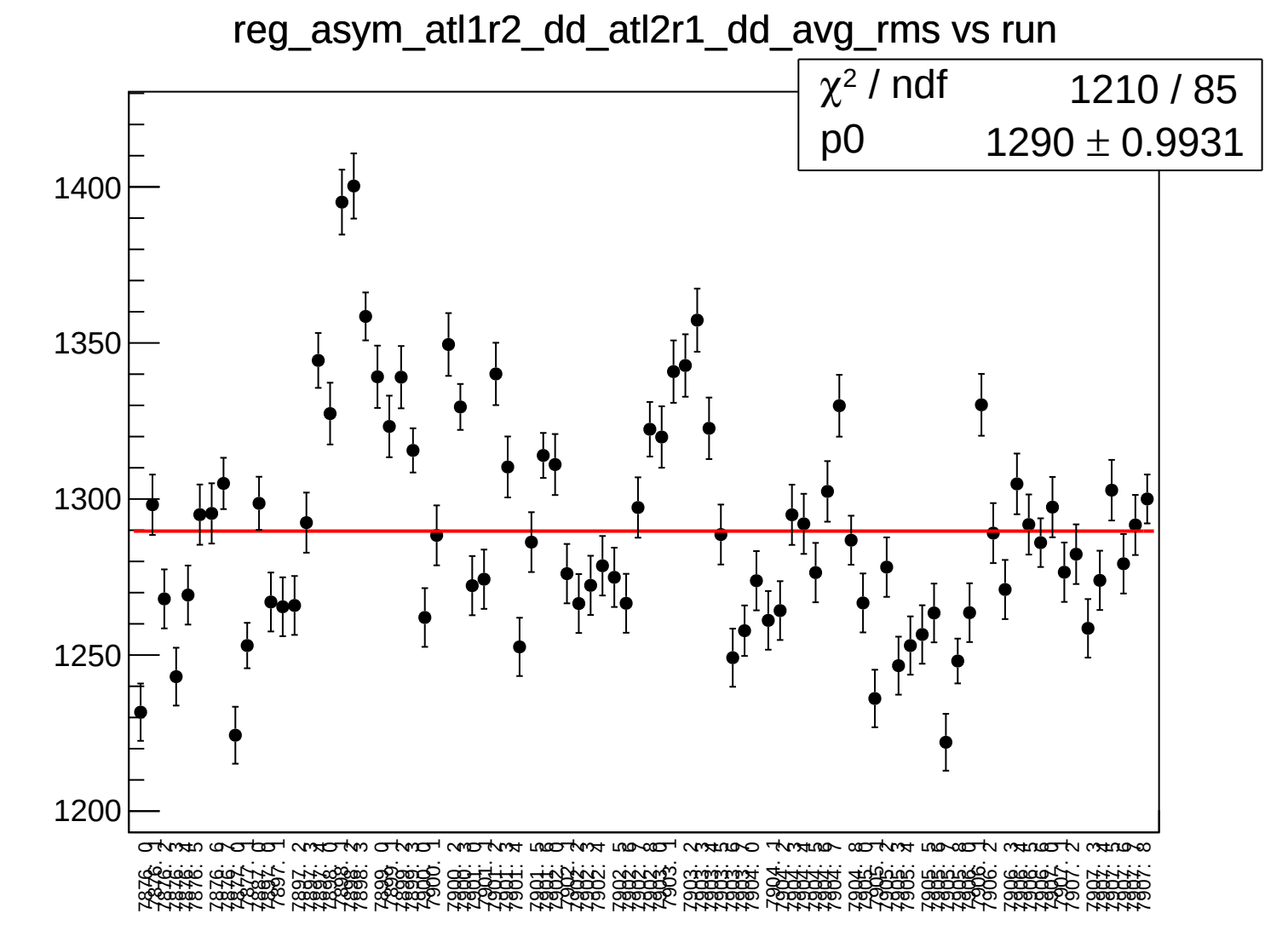

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 114.5 / 85
p0 −7.097e−14 ± 3.729e−13
pull
Entries 86
Mean −199.8
Std Dev 0

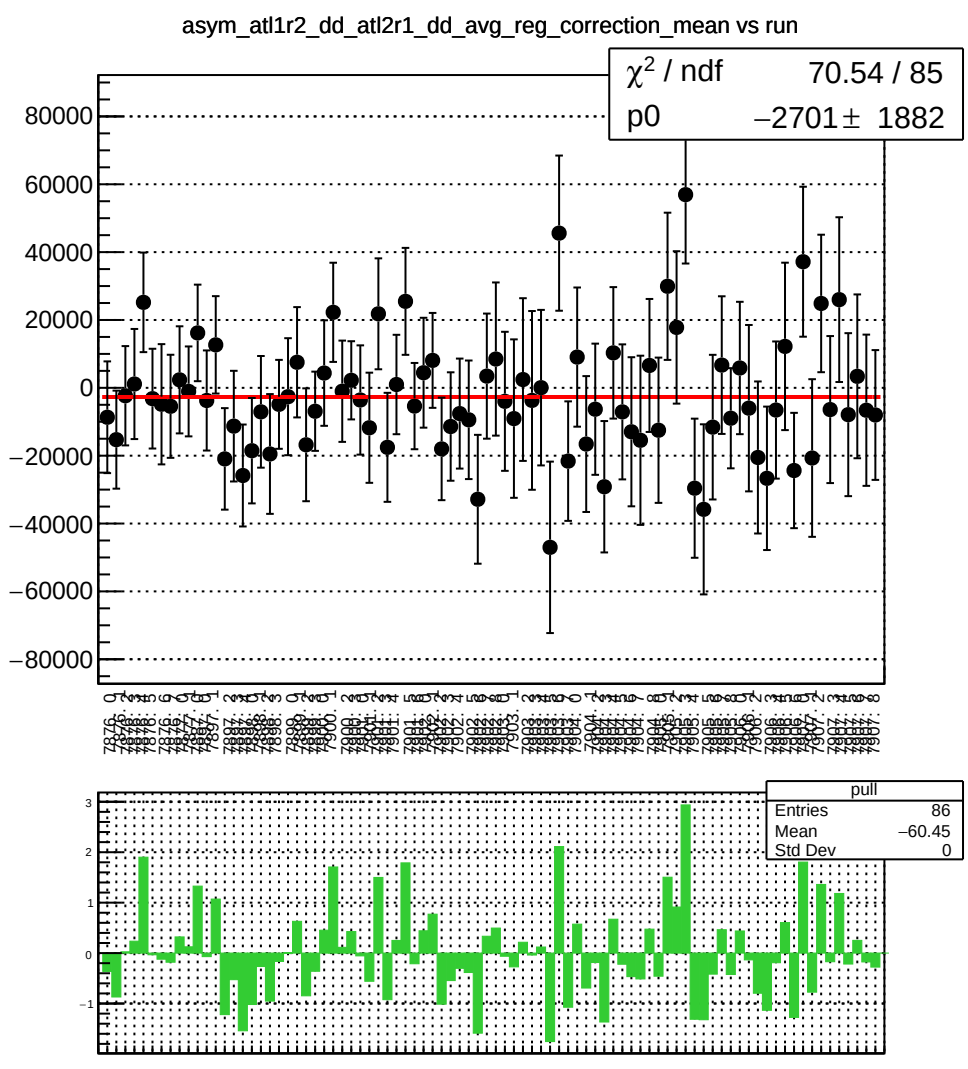

pull1D
Entries 86
Mean −0.02758
Std Dev 1.153

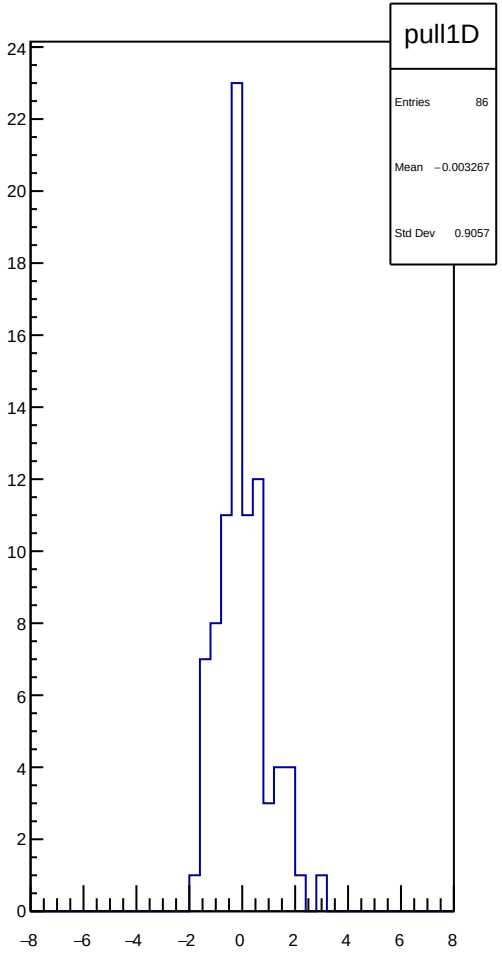

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.174e+06 / 85
p0 1.889e−10 ± 2.637e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

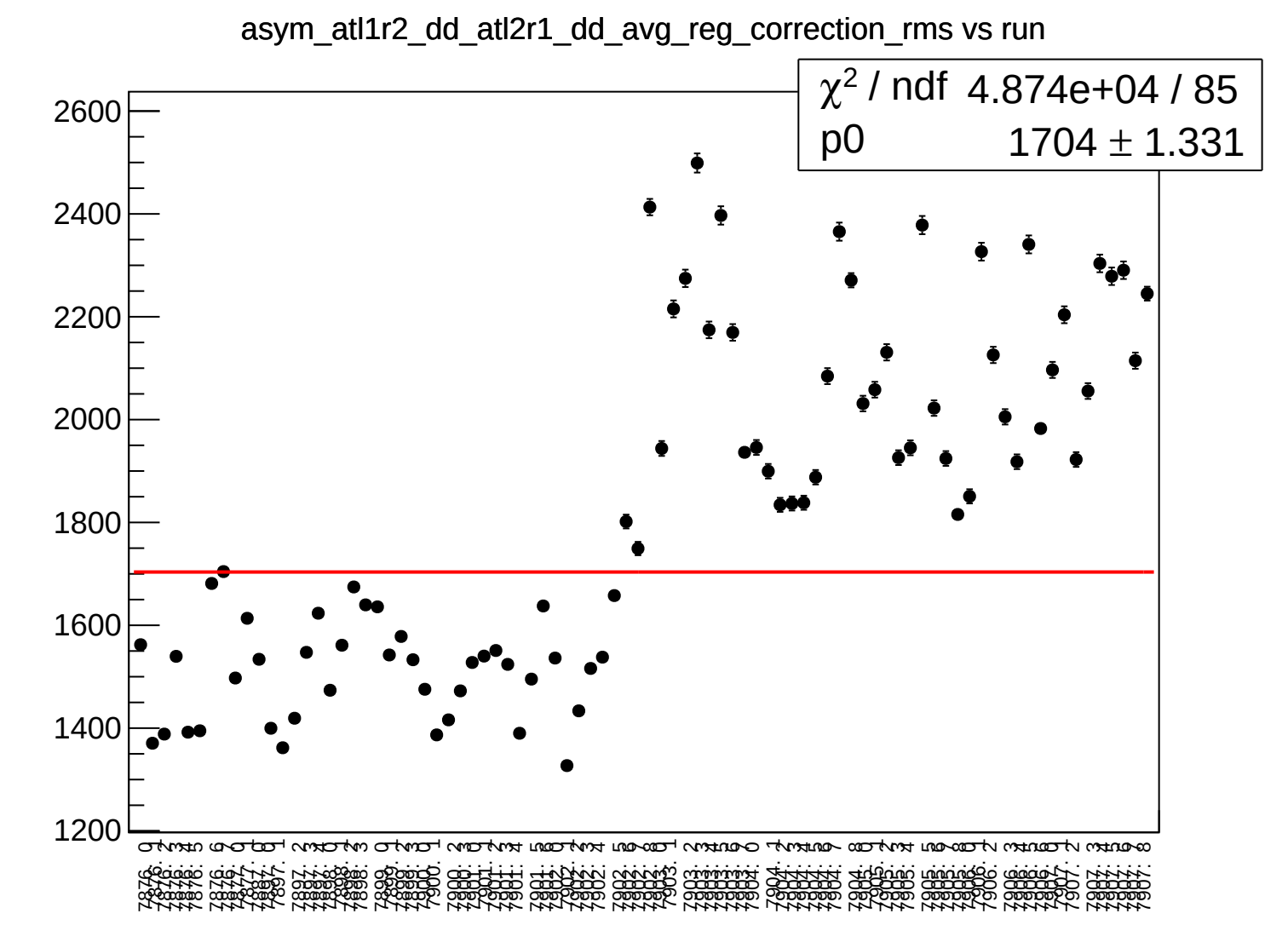

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.4 / 85
p0 757.6 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 316.6
Std Dev 0
2
1
0
−1
−2
−3

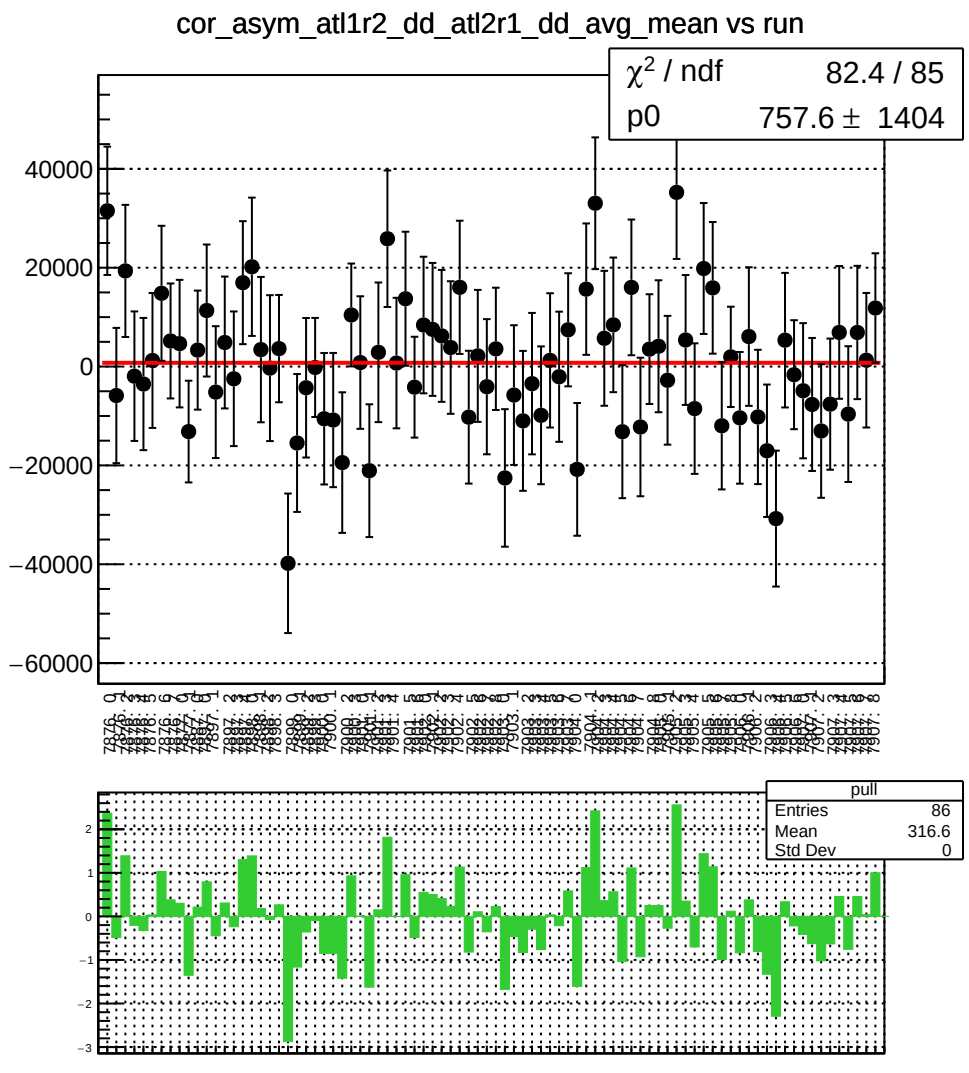

pull1D
Entries 86
Mean −0.008738
Std Dev 0.9788
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

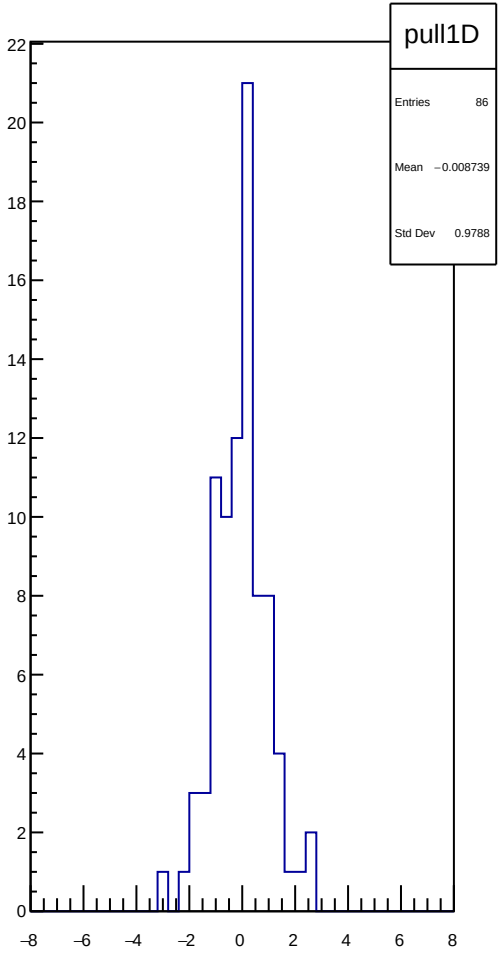

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1210 / 85
p0 1290 ± 0.9931
1400
1350
1300
1250
1200

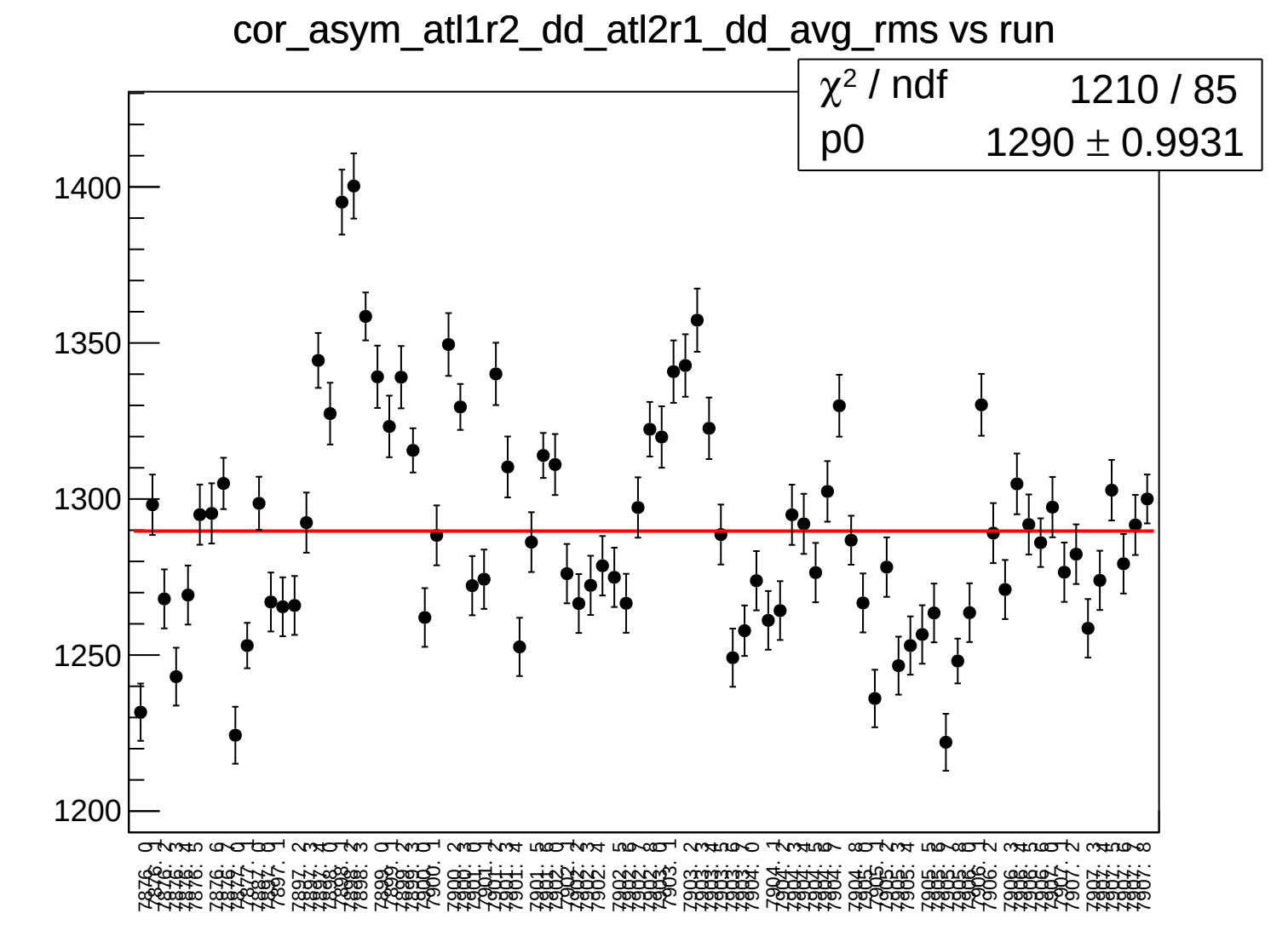

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 70.54 / 85
p0 −2701 ± 1882
pull
Entries 86
Mean −60.45
Std Dev 0

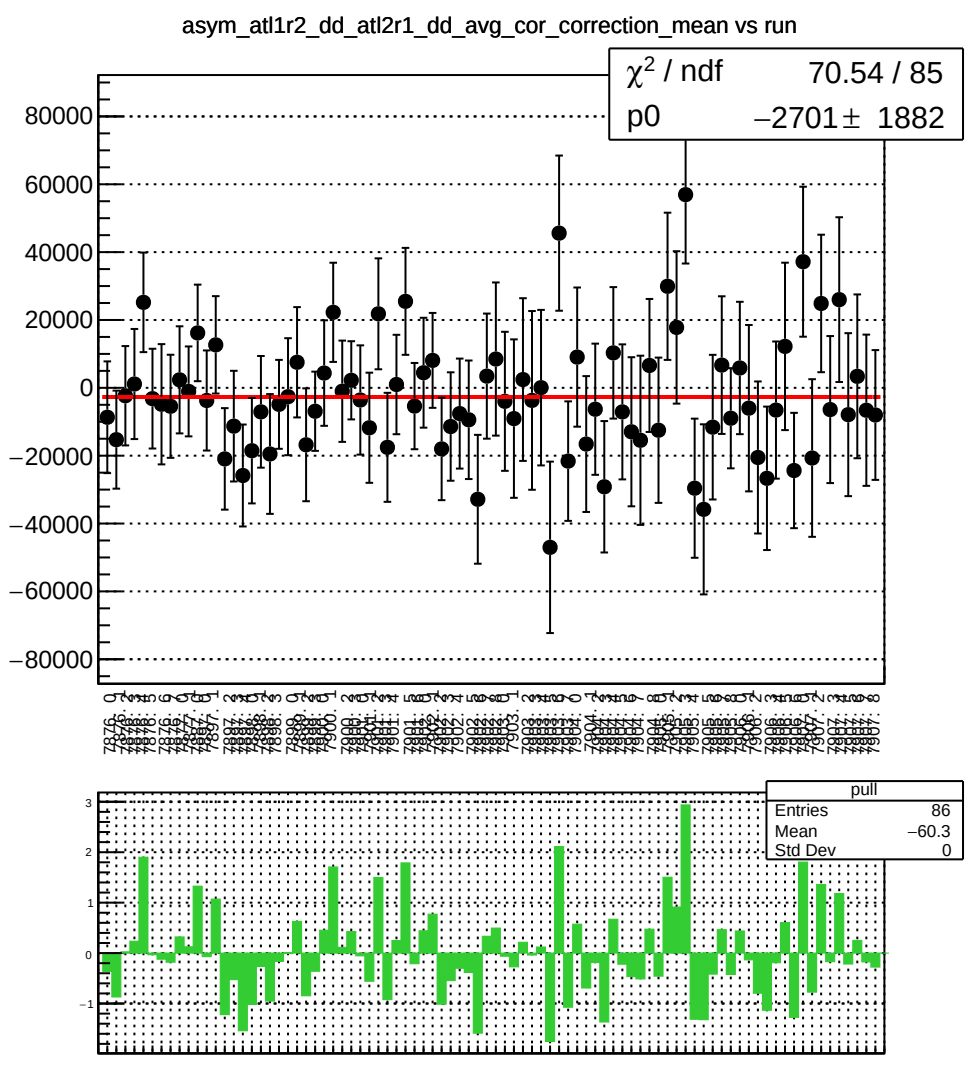

pull1D
Entries 86
Mean −0.003267
Std Dev 0.9057

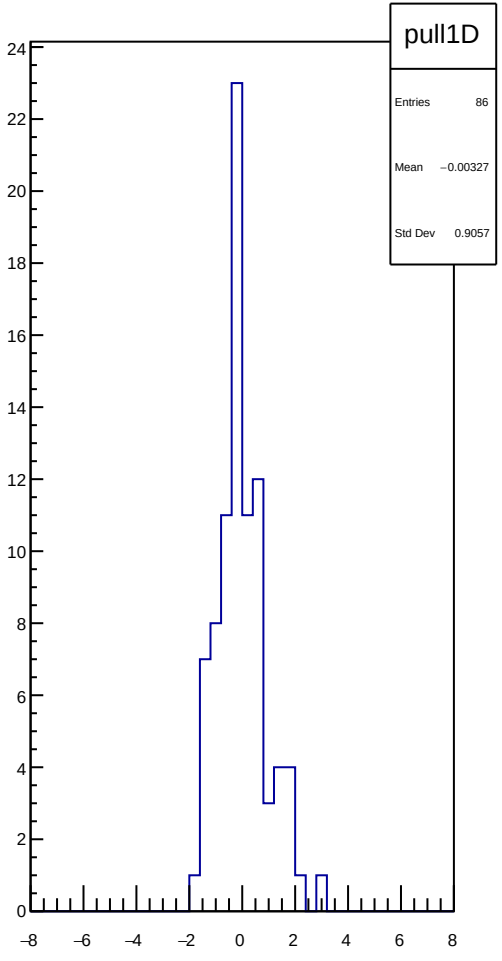

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 4.874e+04 / 85
p0 1704 ± 1.331
2600
2400
2200
2000
1800
1600
1400
1200

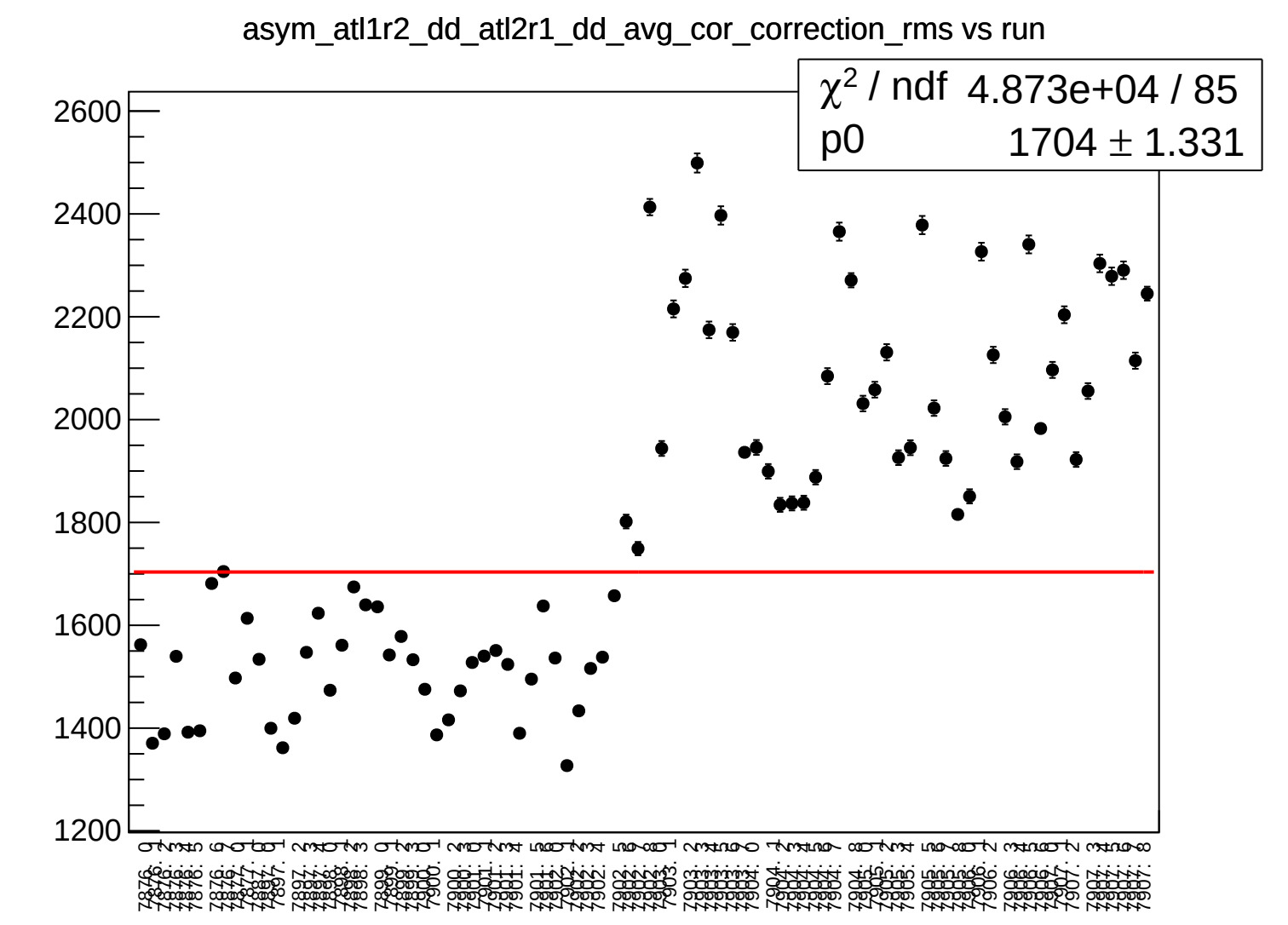

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.4 / 85
p0 757.6 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 316.6
Std Dev 0
2
1
0
−1
−2
−3

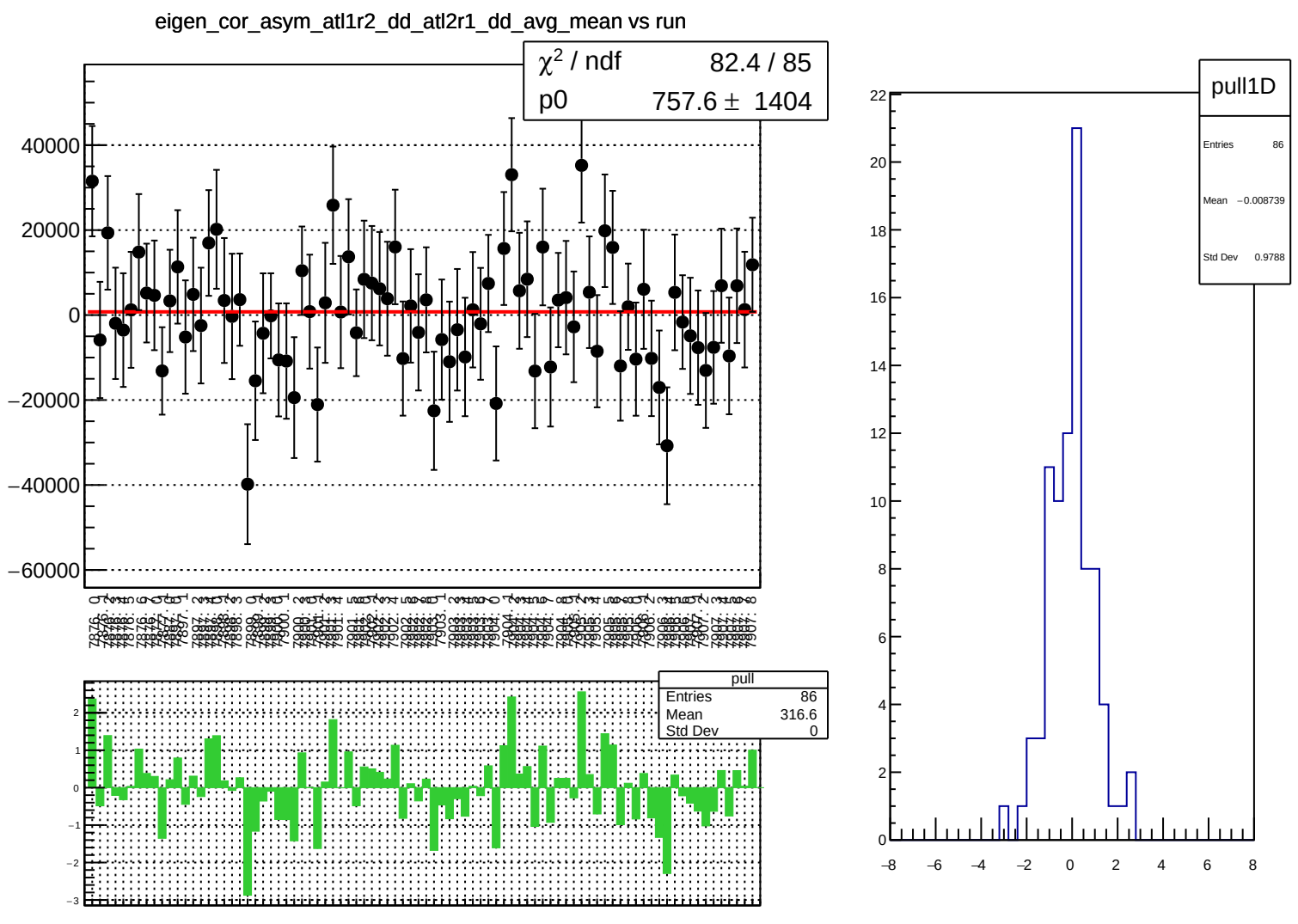

pull1D
Entries 86
Mean −0.008739
Std Dev 0.9788
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

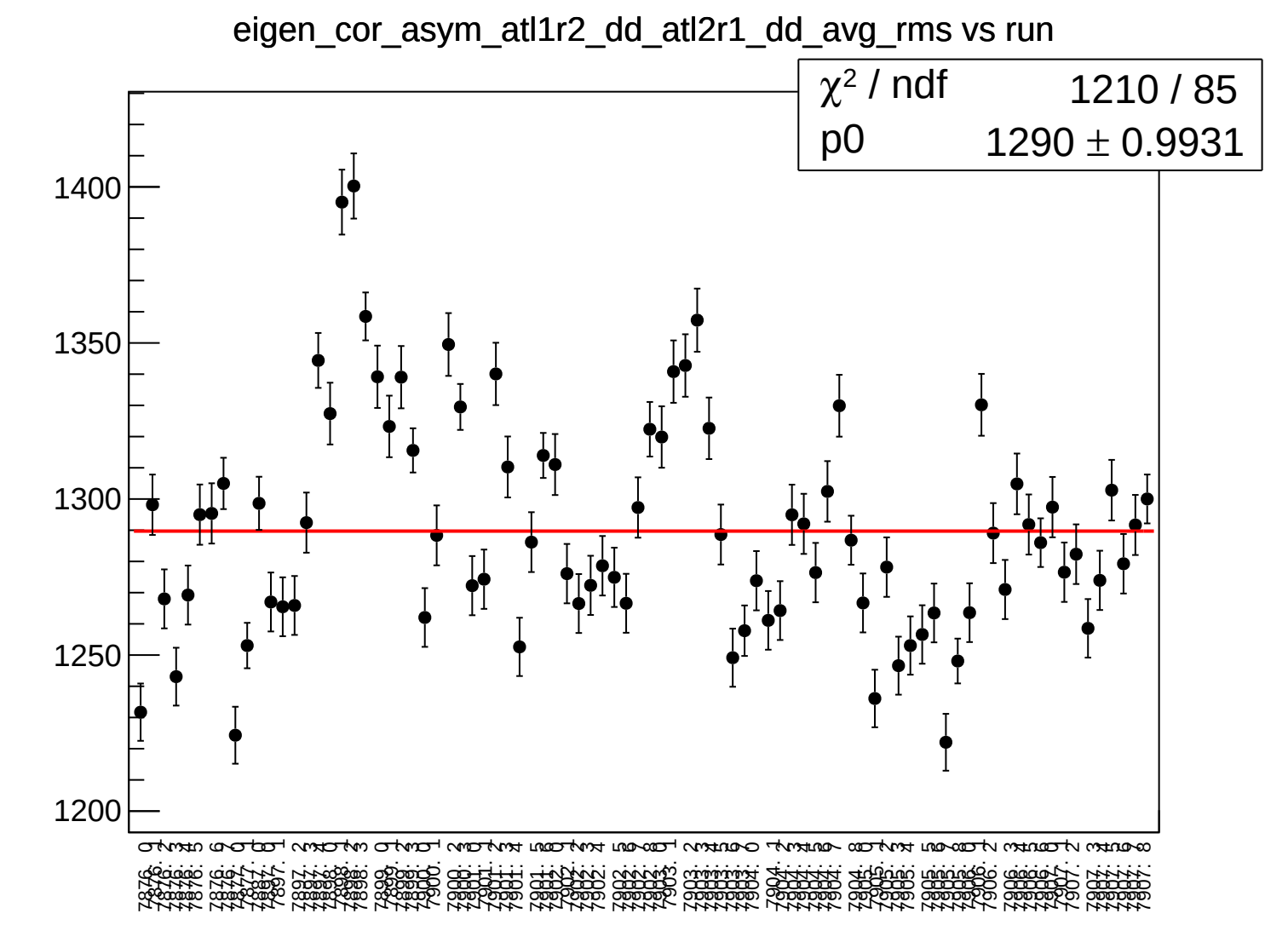

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1210 / 85
p0 1290 ± 0.9931
1400
1350
1300
1250
1200

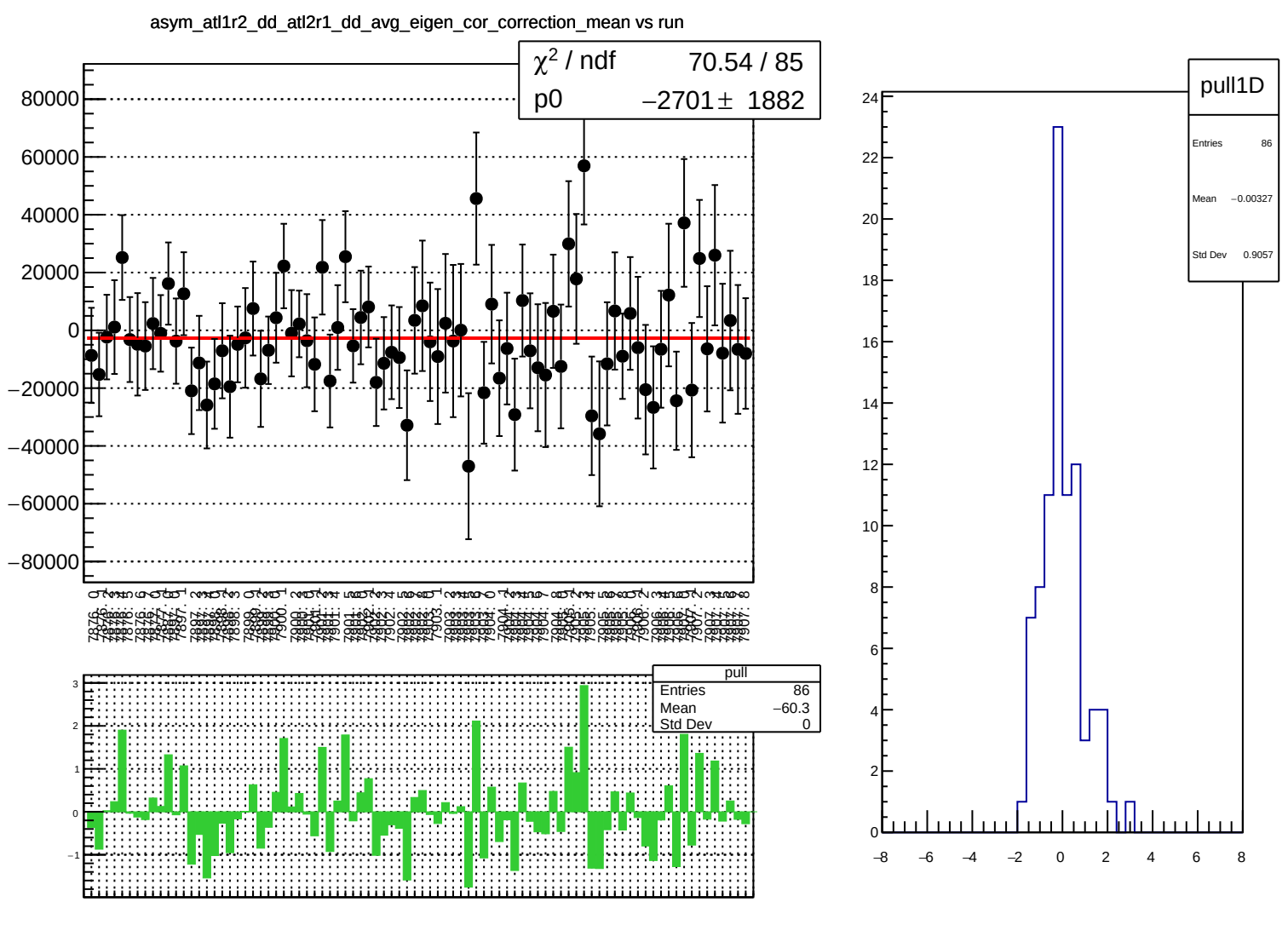

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 70.54 / 85
p0 −2701 ± 1882
pull
Entries 86
Mean −60.3
Std Dev 0

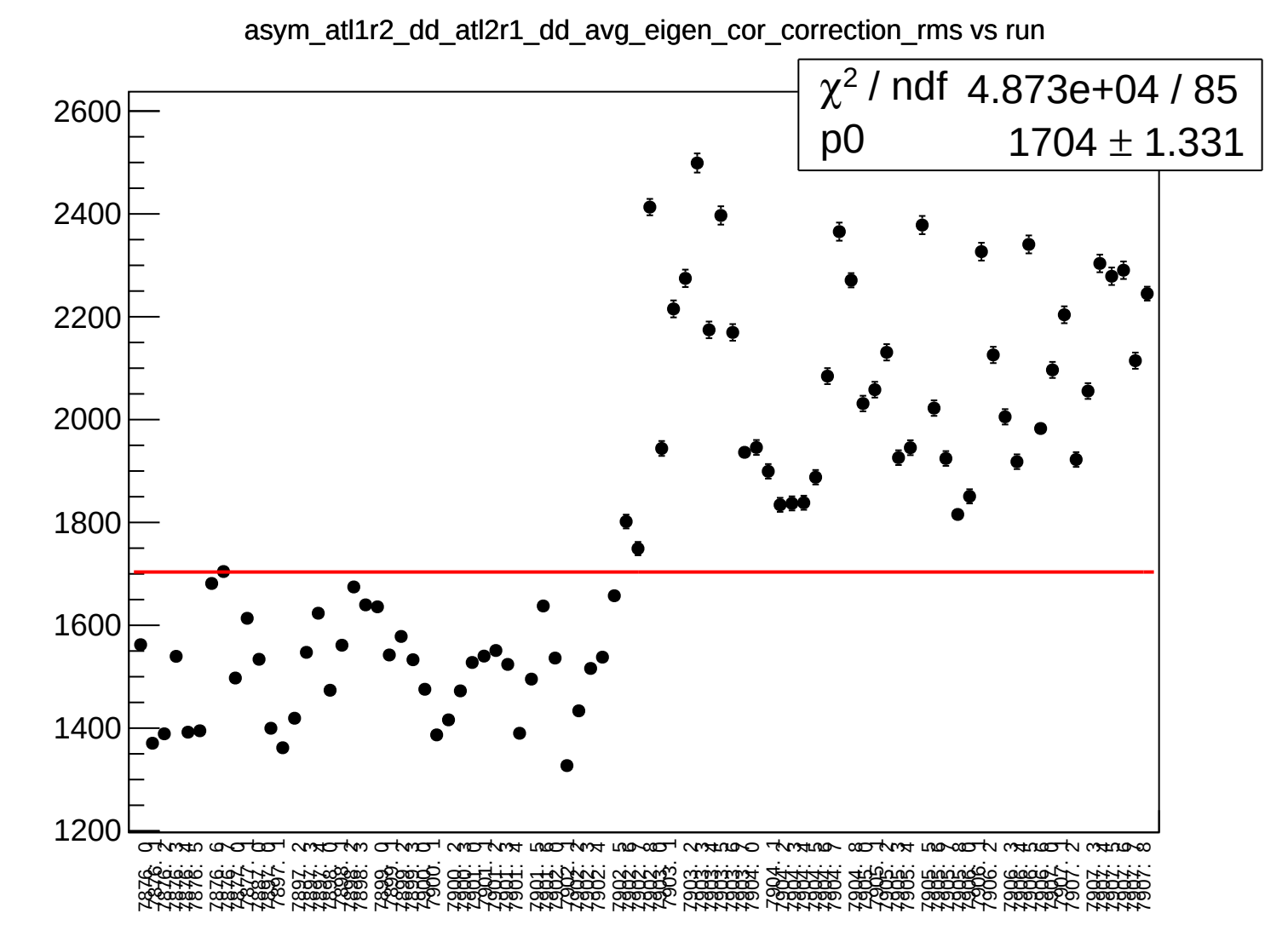

pull1D
Entries 86
Mean −0.00327
Std Dev 0.9057

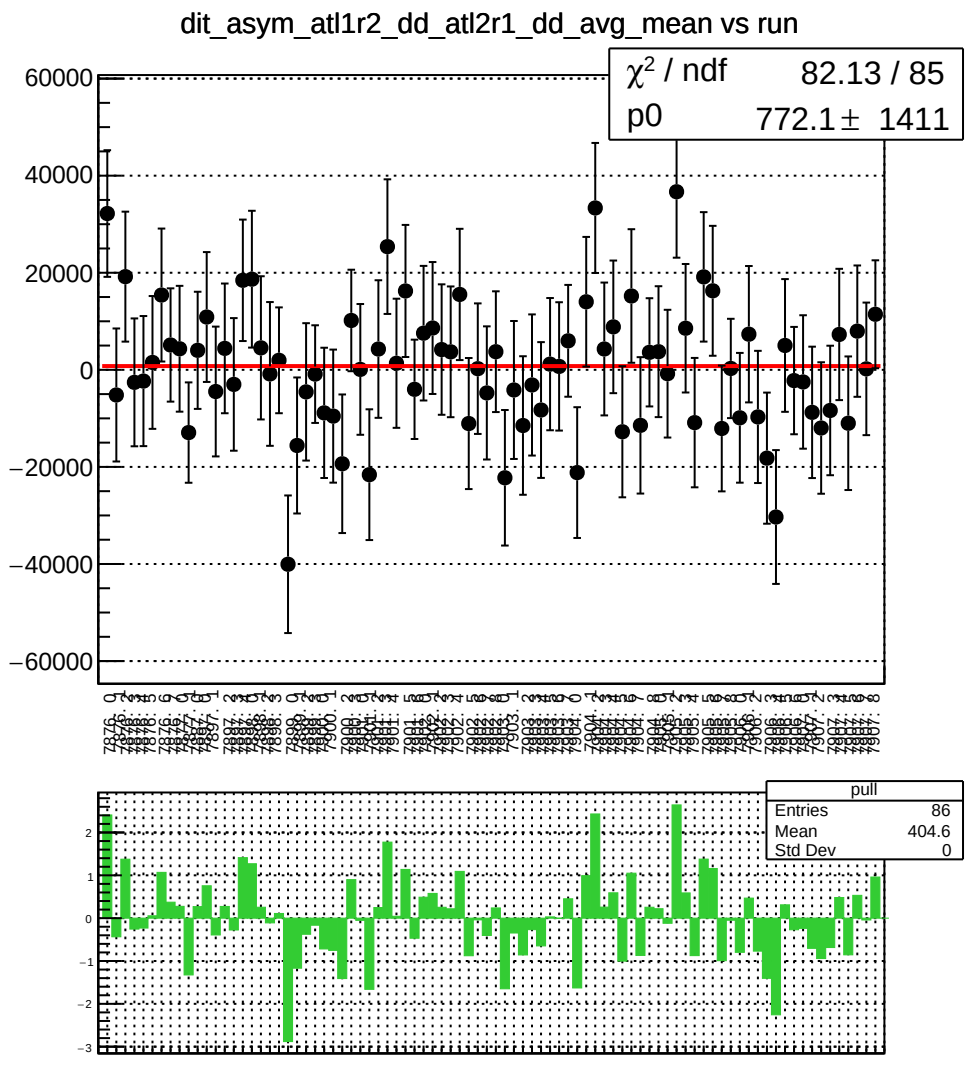

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 4.873e+04 / 85
p0 1704 ± 1.331
2600
2400
2200
2000
1800
1600
1400
1200

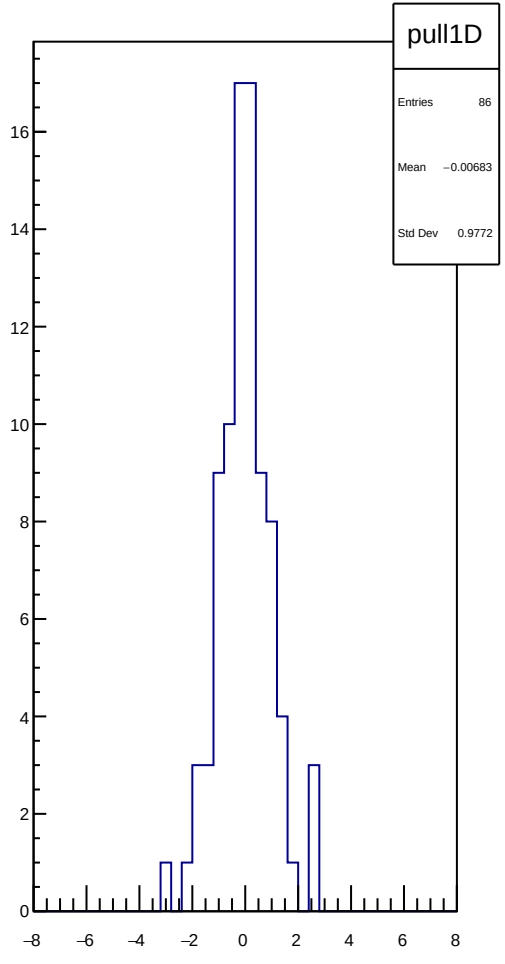

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.4 / 85
p0 757.6 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 316.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.008739
Std Dev 0.9788
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

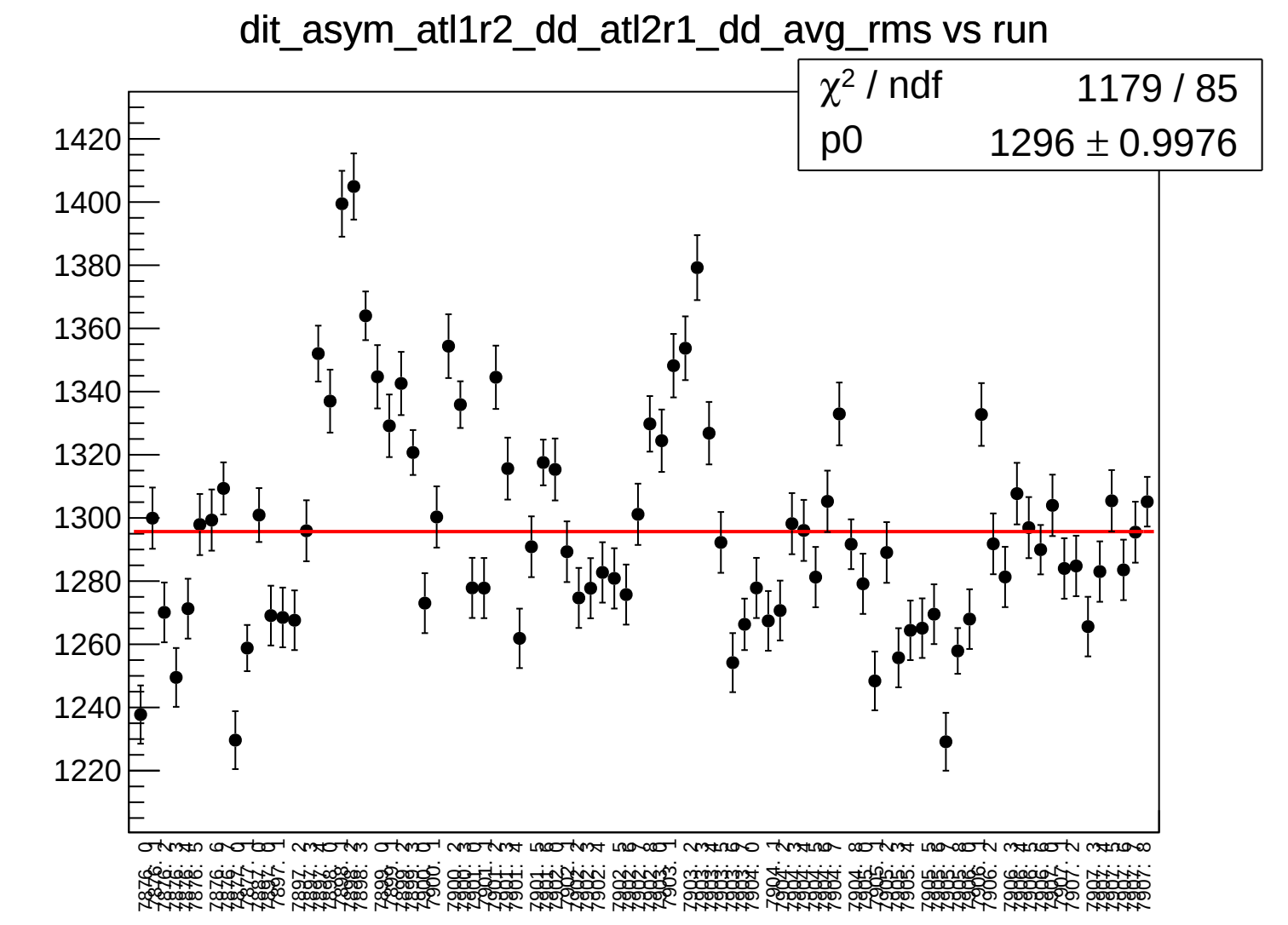

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1210 / 85
p0 1290 ± 0.9931
1400
1350
1300
1250
1200

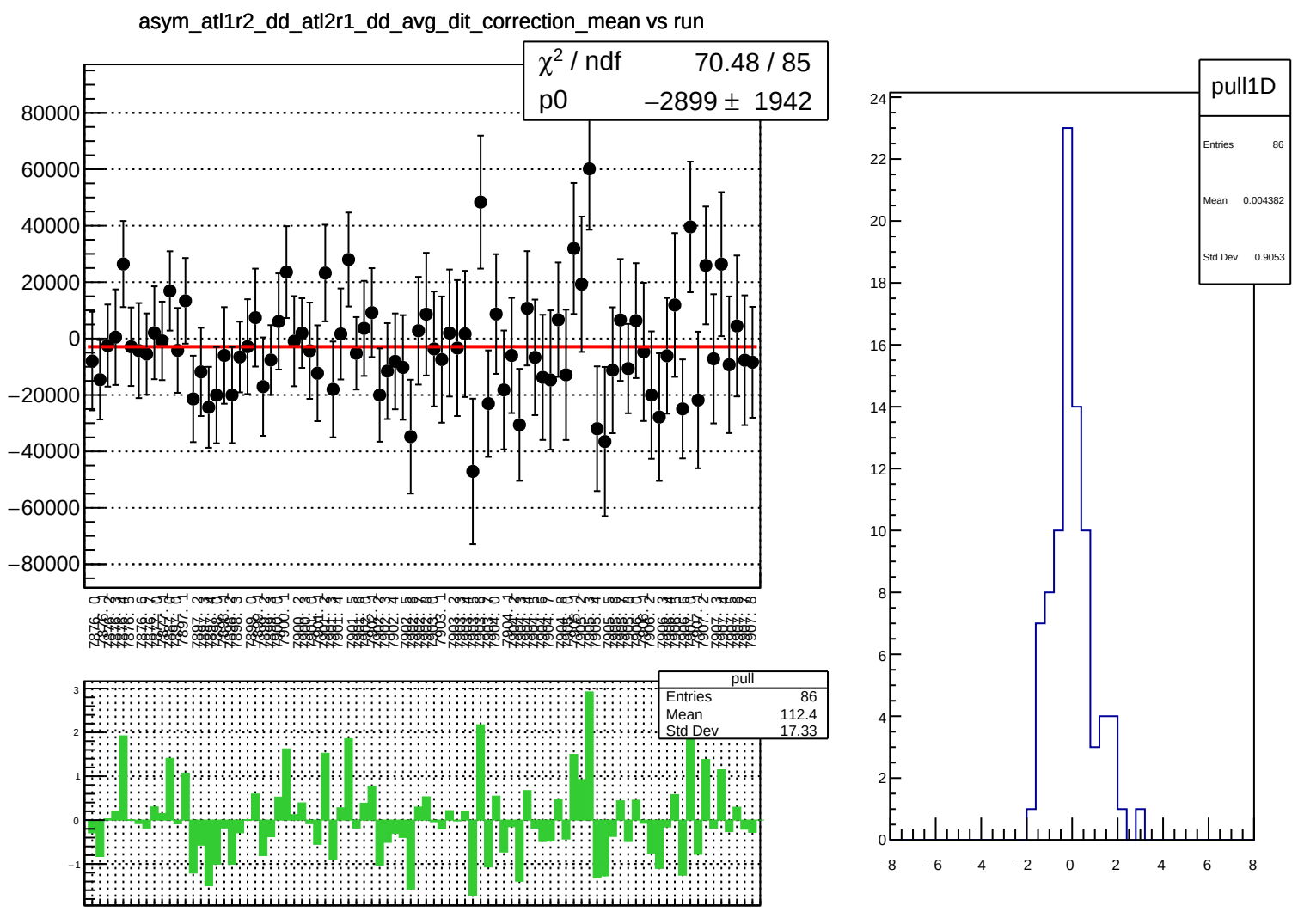

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.54 / 85
p0 −2701 ± 1882
pull
Entries 86
Mean −60.3
Std Dev 0
pull1D
Entries 86
Mean −0.00327
Std Dev 0.9057

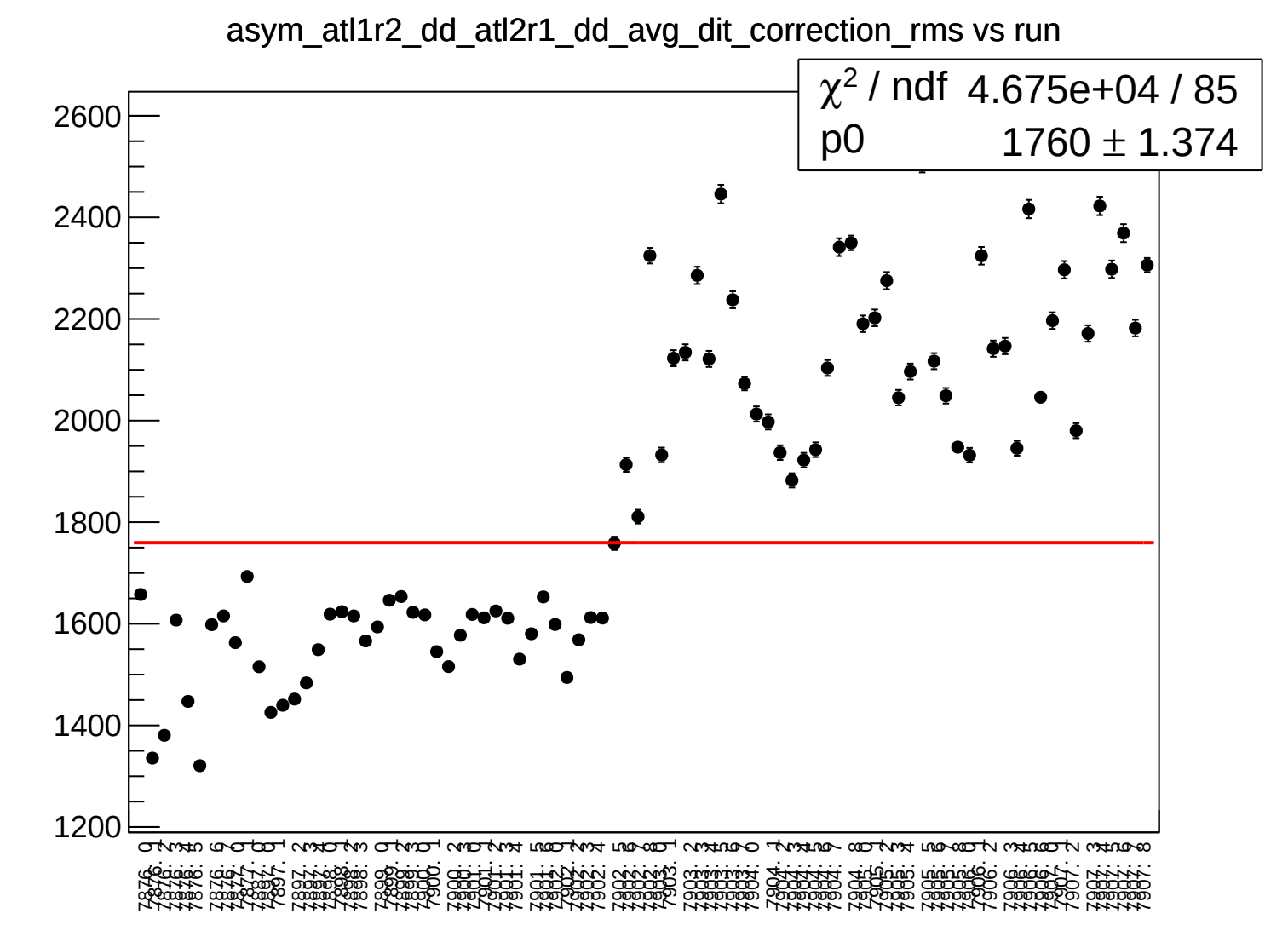

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.873e+04 / 85
p0 1704 ± 1.331
2600
2400
2200
2000
1800
1600
1400
1200

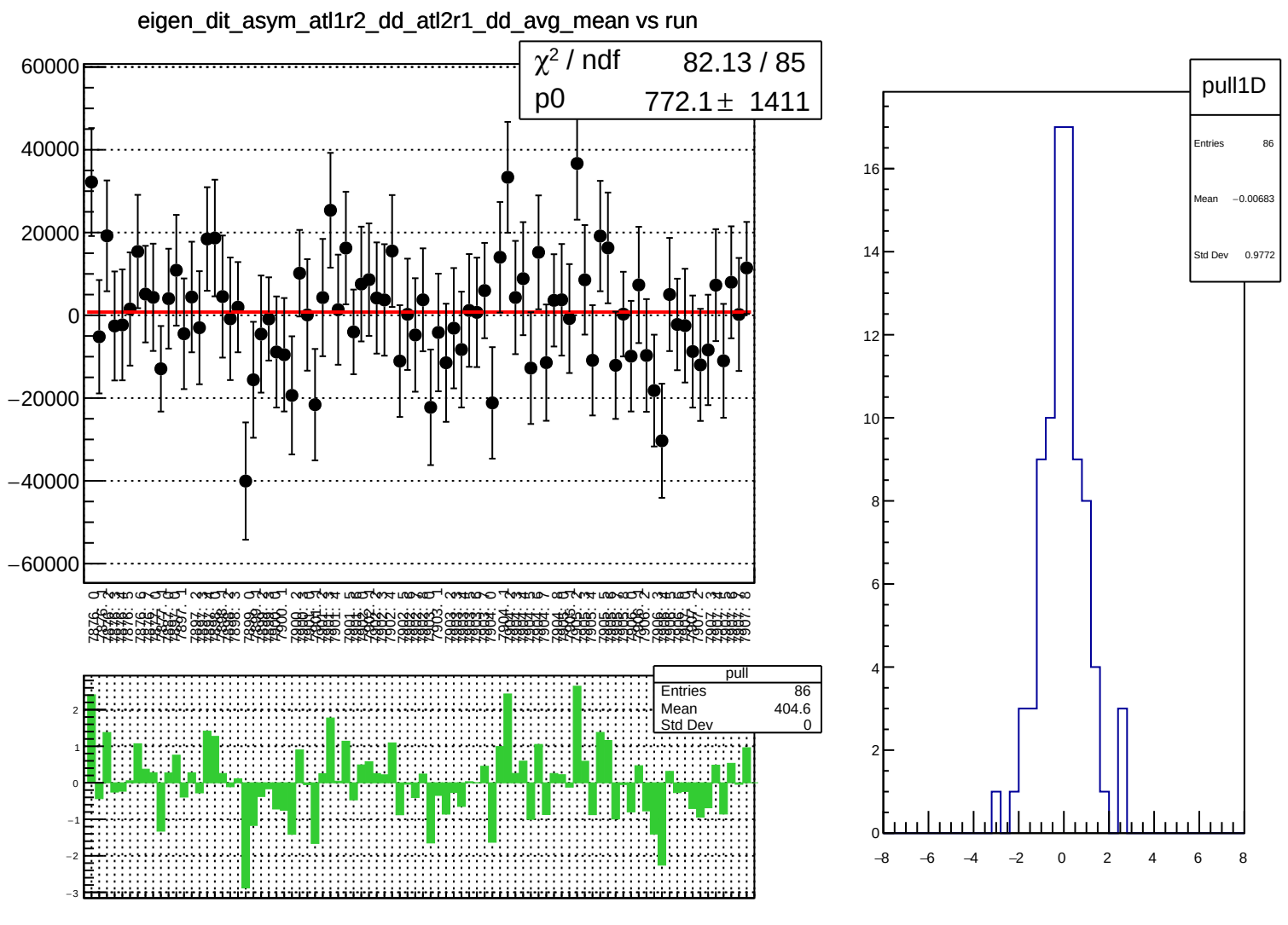

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.13 / 85
p0 772.1 ± 1411
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 404.6
Std Dev 0
2
1
0
−1
−2
−3

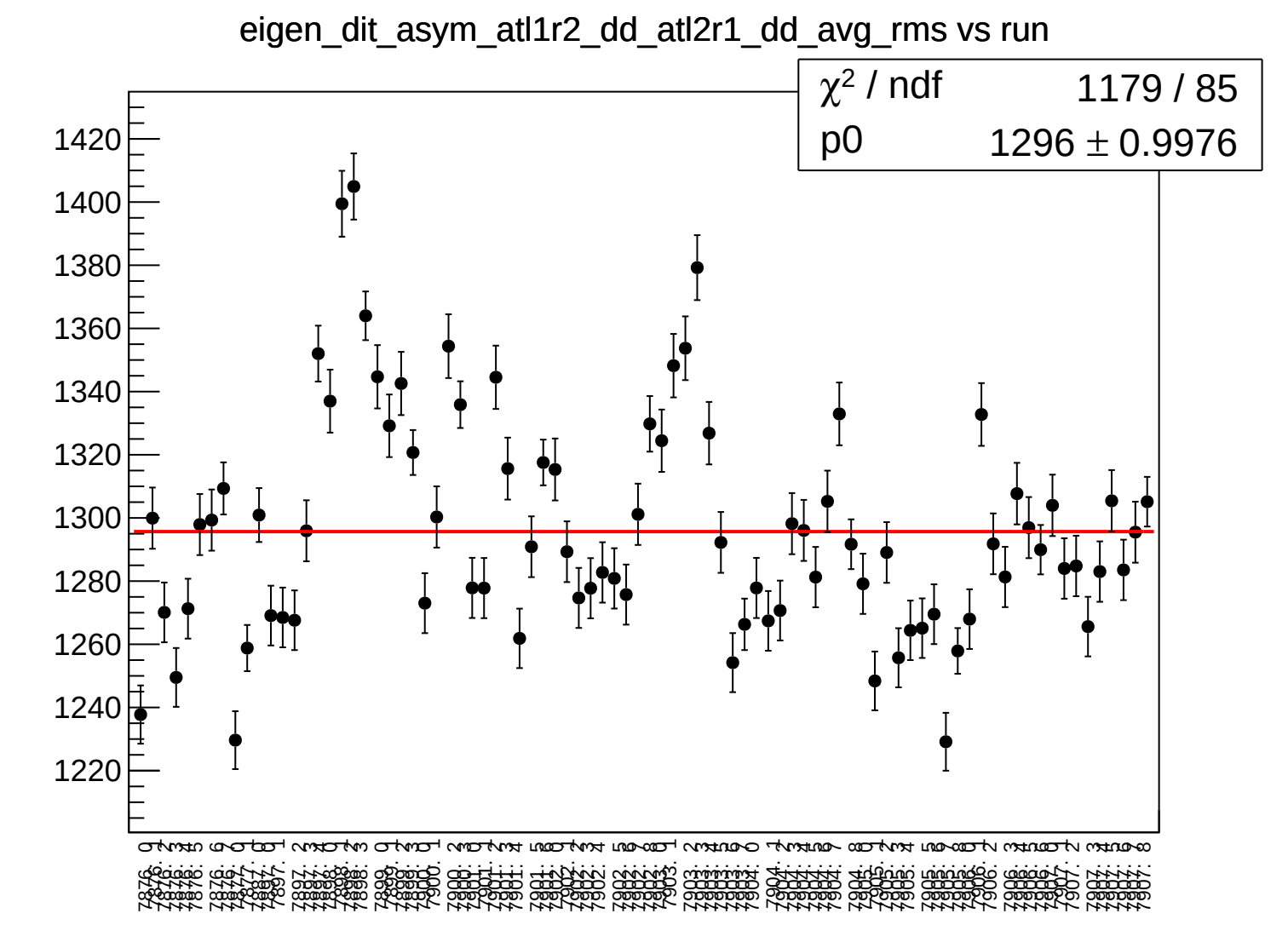

pull1D
Entries 86
Mean −0.00683
Std Dev 0.9772
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

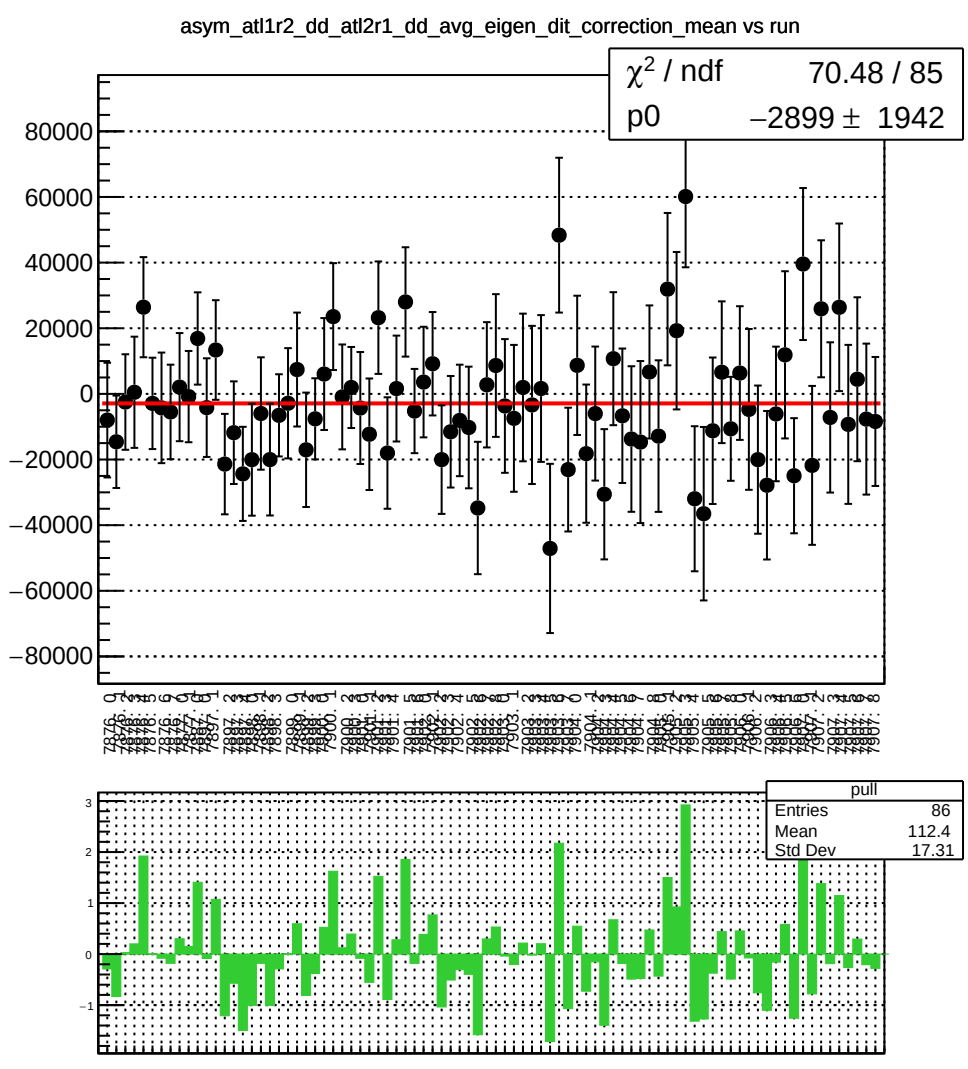

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1179 / 85
p0 1296 ± 0.9976
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

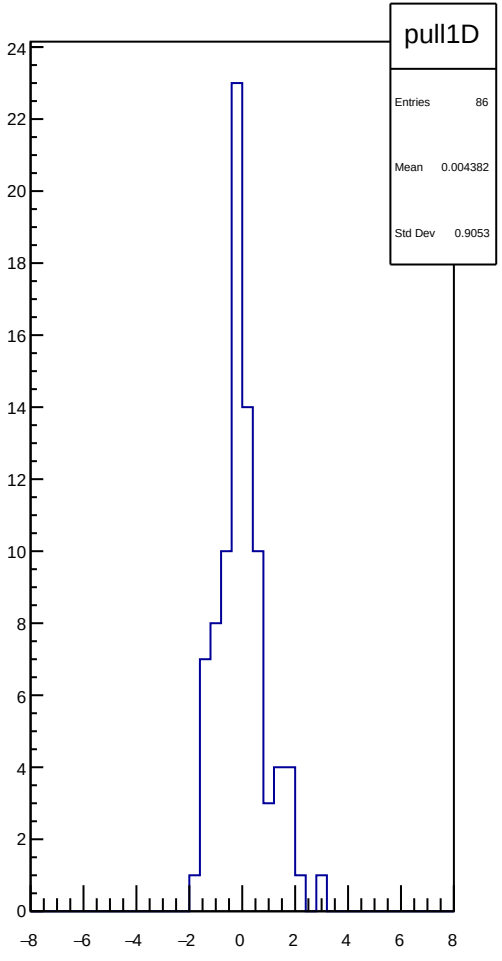

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 70.48 / 85
p0 −2899 ± 1942
pull
Entries 86
Mean 112.4
Std Dev 17.33
pull1D
Entries 86
Mean 0.004382
Std Dev 0.9053

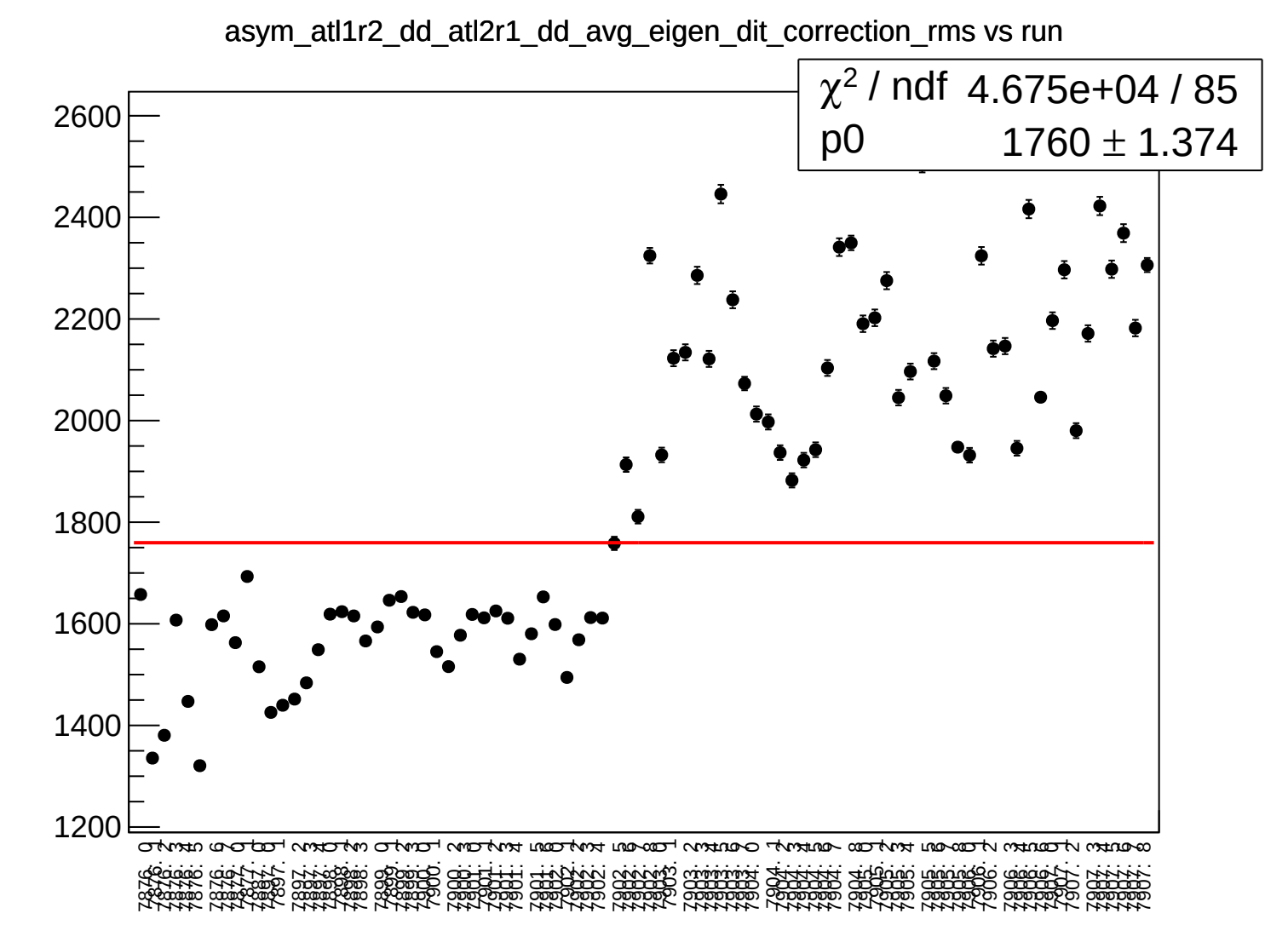

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 4.675e+04 / 85
p0 1760 ± 1.374
2600
2400
2200
2000
1800
1600
1400
1200

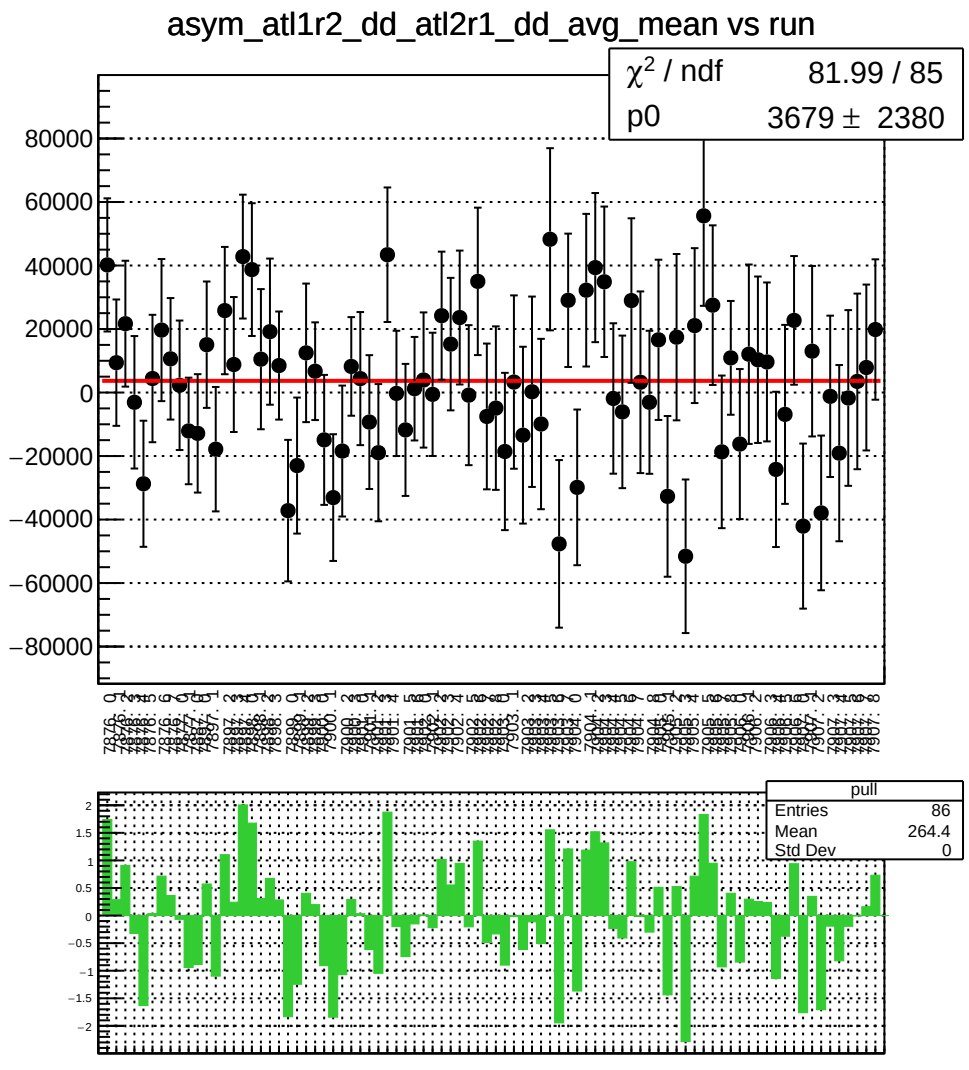

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.13 / 85
p0 772.1 ± 1411
pull
Entries 86
Mean 404.6
Std Dev 0
pull1D
Entries 86
Mean −0.00683
Std Dev 0.9772

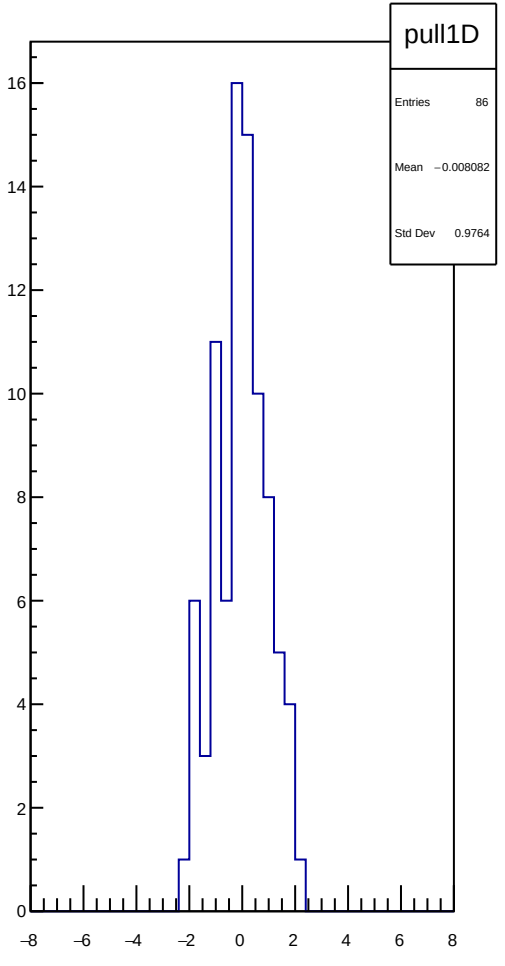

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1179 / 85
p0 1296 ± 0.9976
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

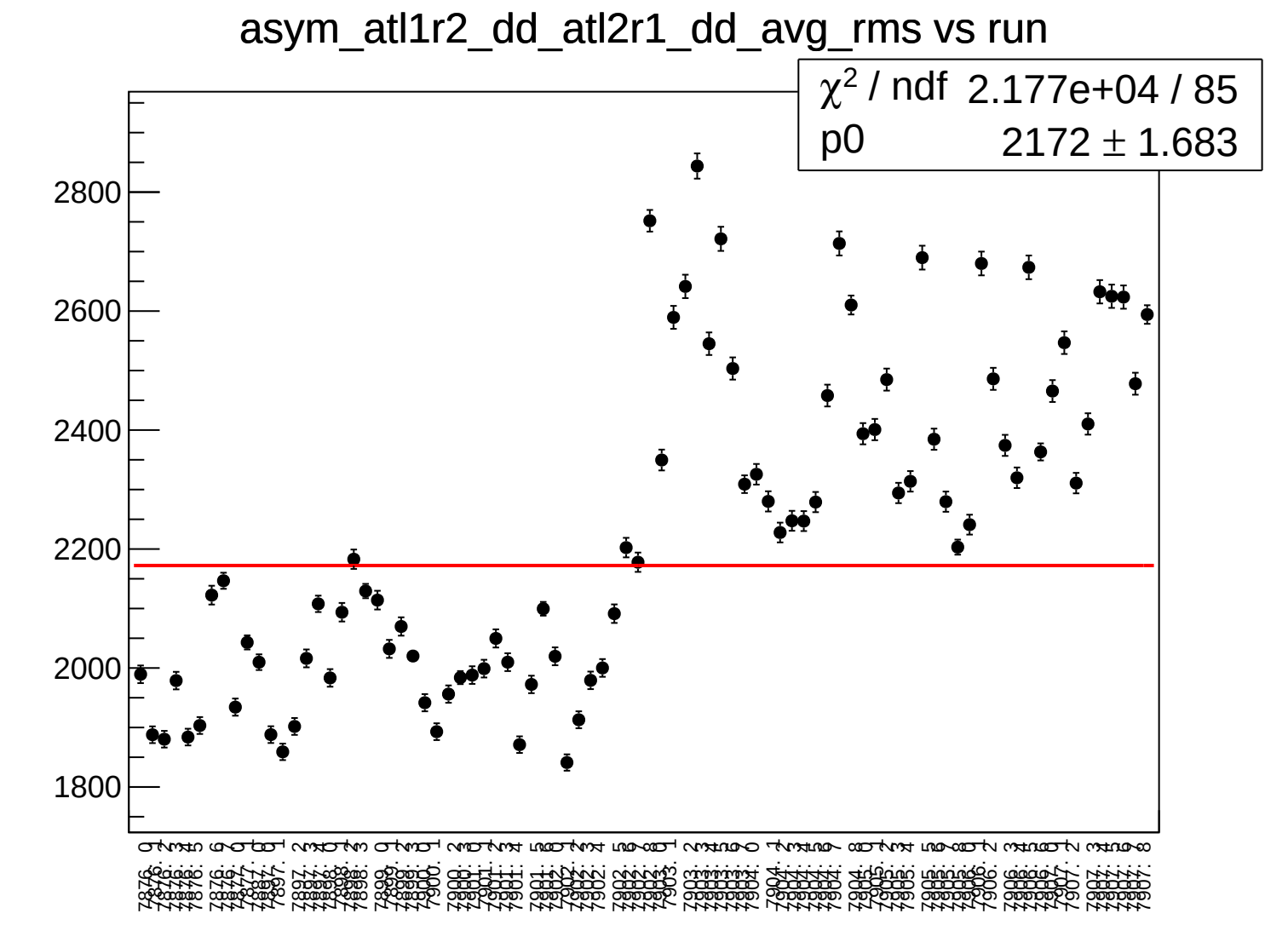

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.48 / 85
p0 −2899 ± 1942
pull
Entries 86
Mean 112.4
Std Dev 17.31

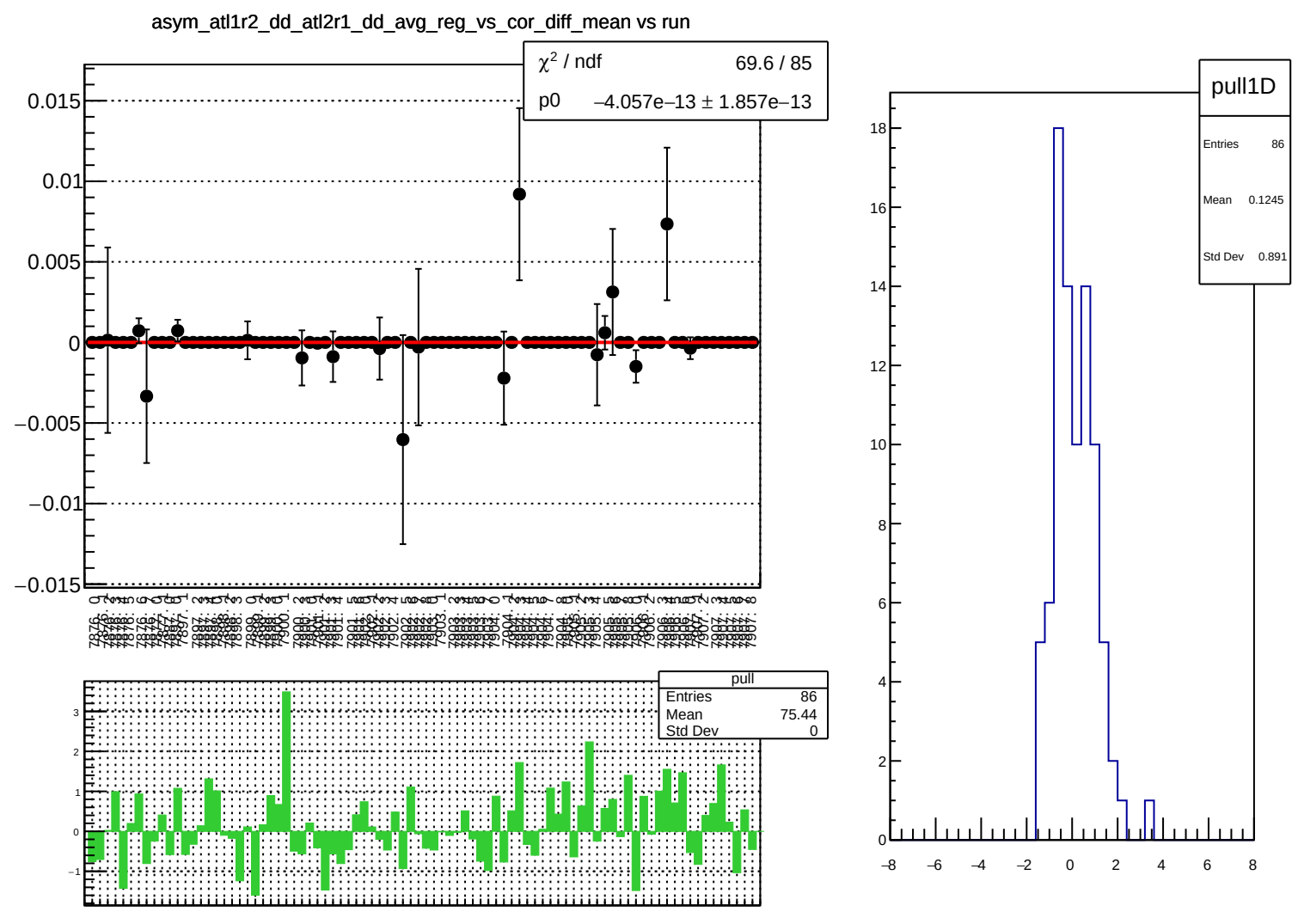

pull1D
Entries 86
Mean 0.004382
Std Dev 0.9053

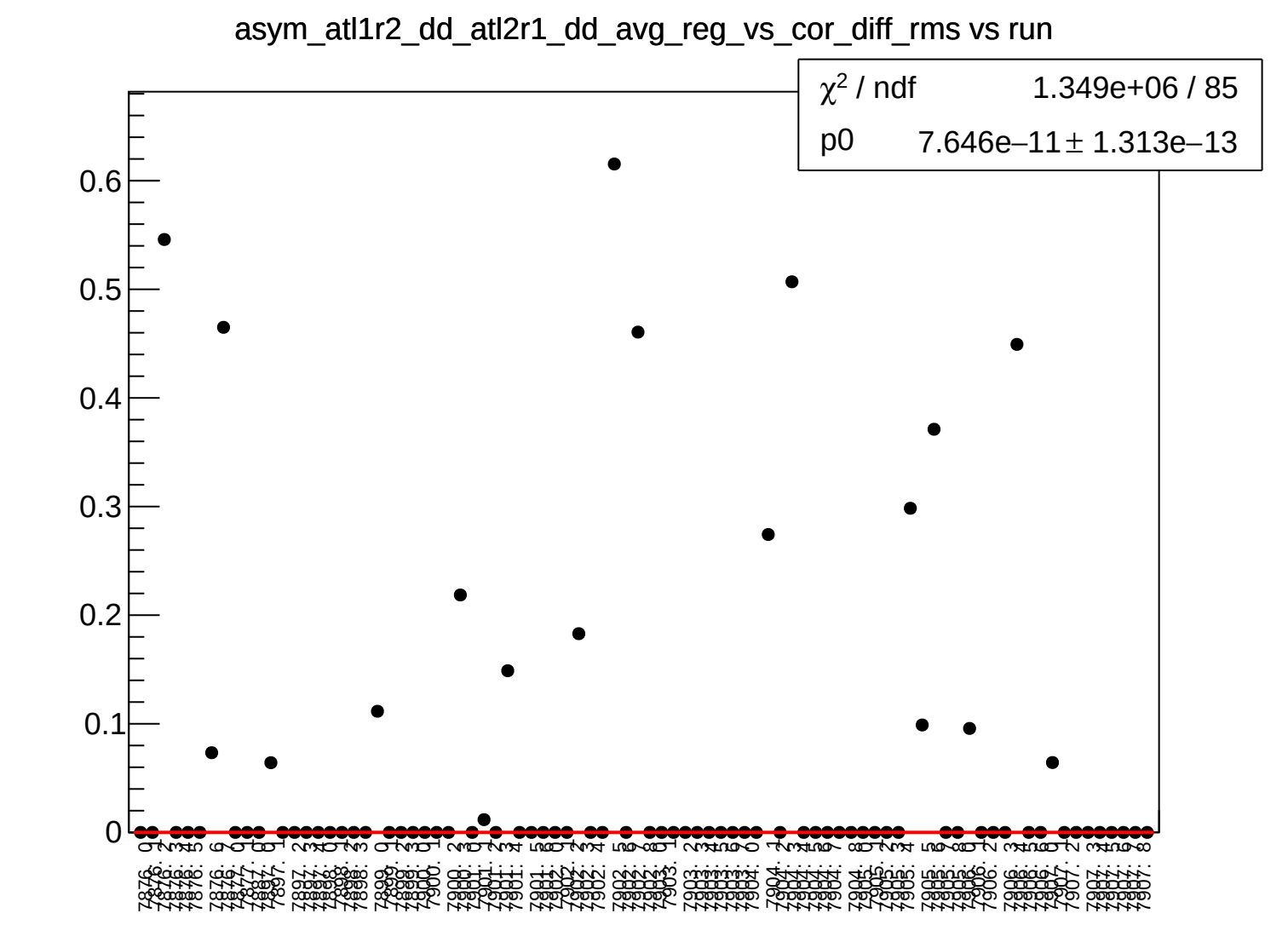

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.675e+04 / 85
p0 1760 ± 1.374
2600
2400
2200
2000
1800
1600
1400
1200

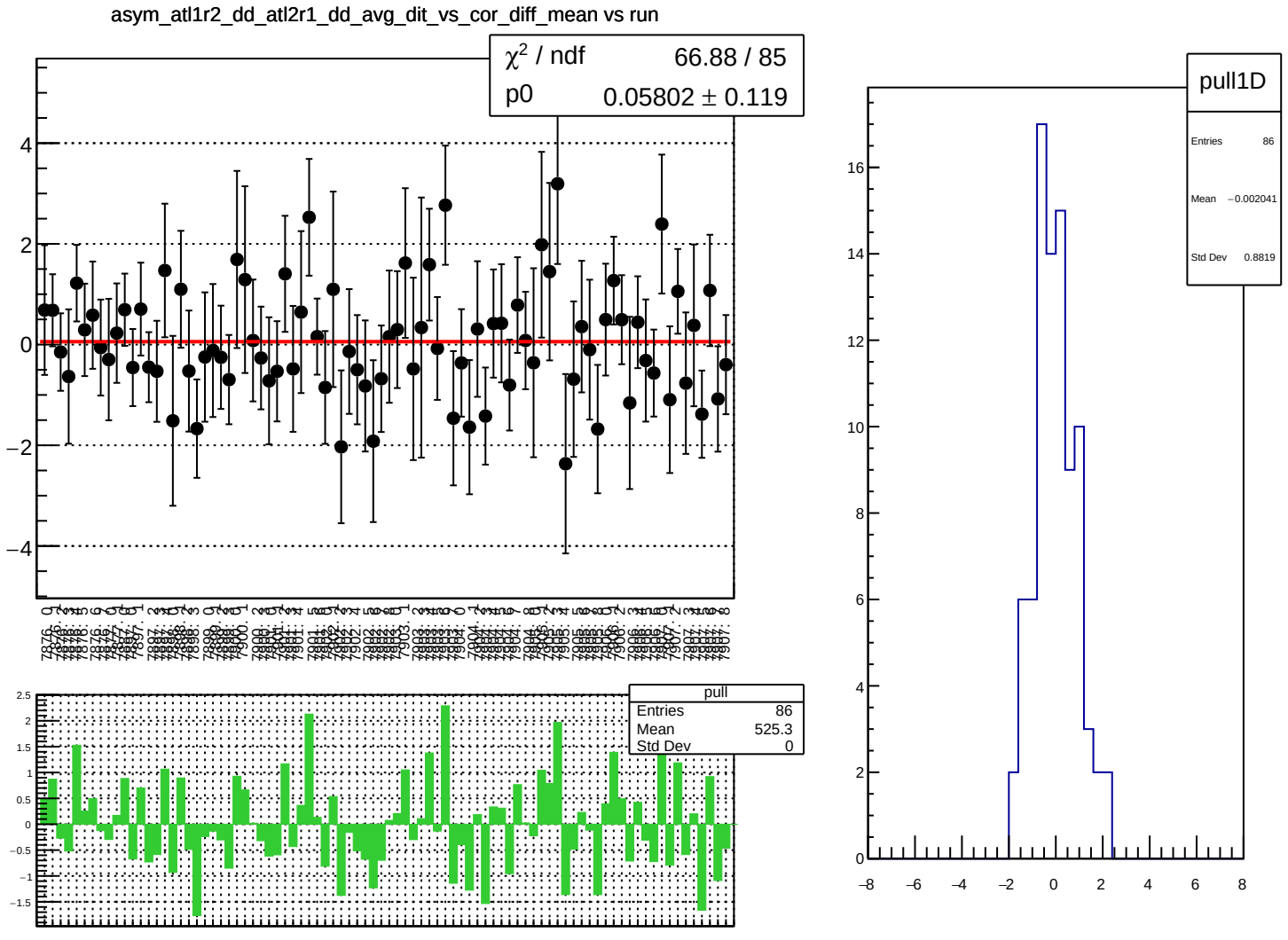

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 81.99 / 85
p0 3679 ± 2380
pull
Entries 86
Mean 264.4
Std Dev 0

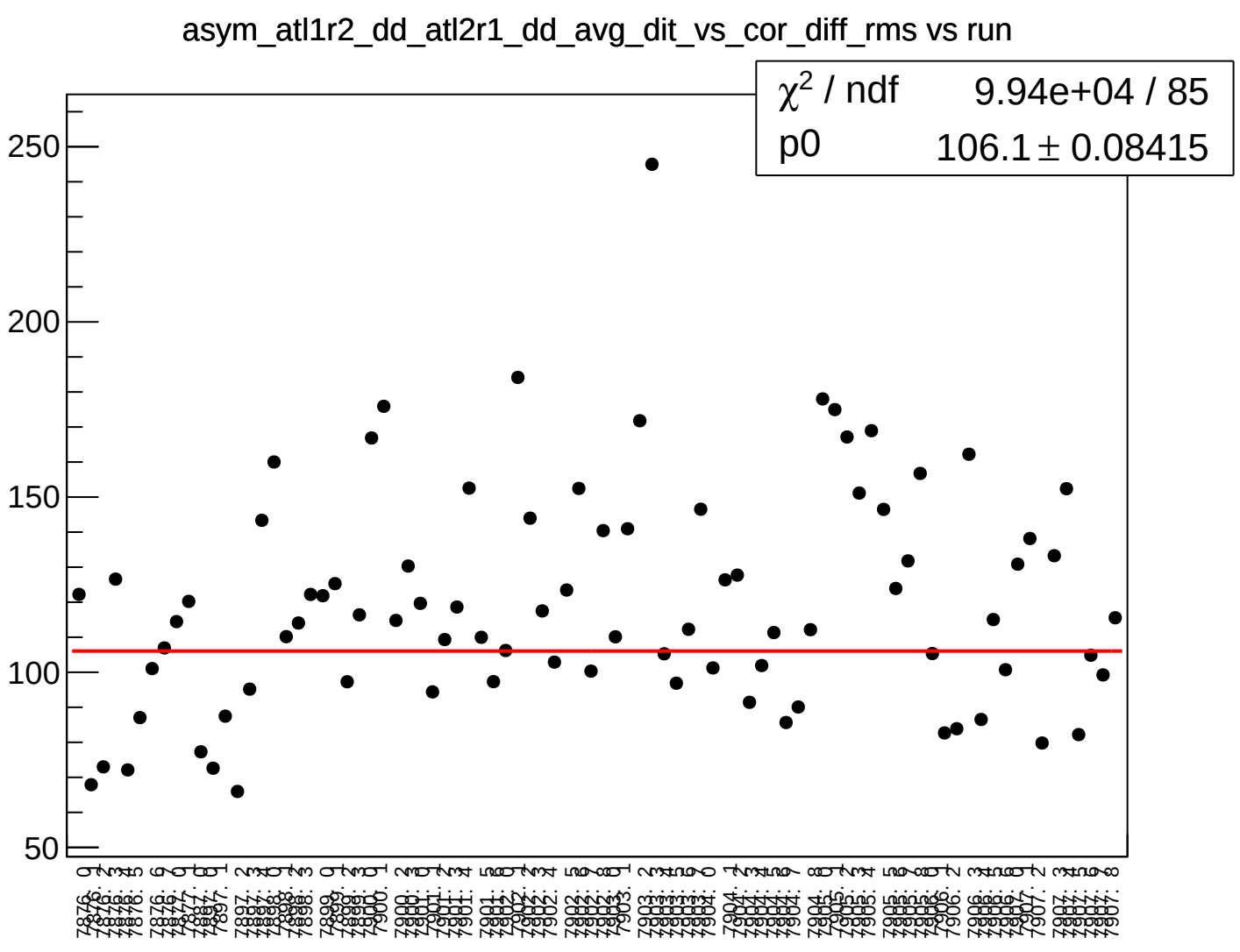

pull1D
Entries 86
Mean −0.008082
Std Dev 0.9764

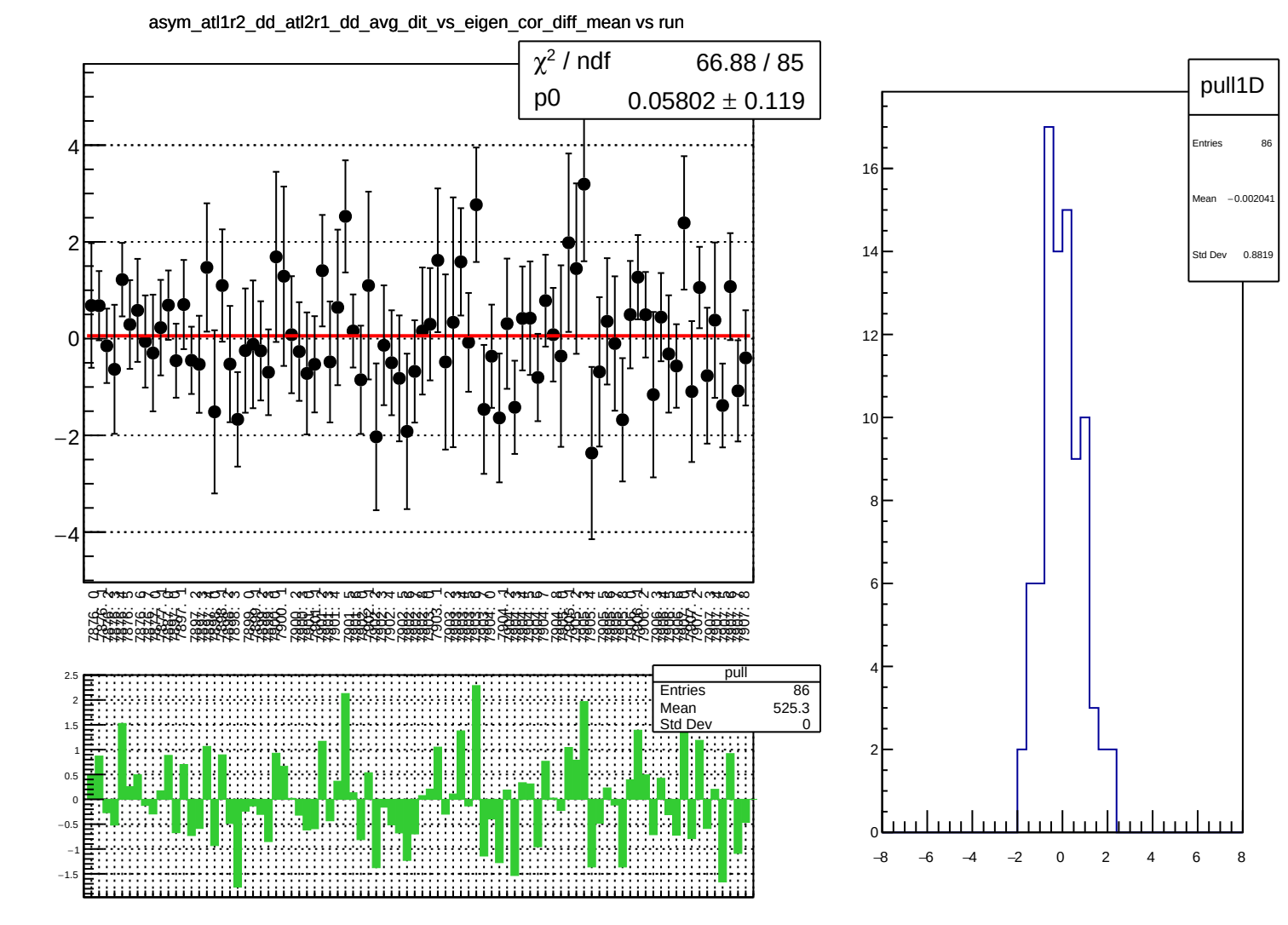

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2.177e+04 / 85
p0 2172 ± 1.683
2800
2600
2400
2200
2000
1800

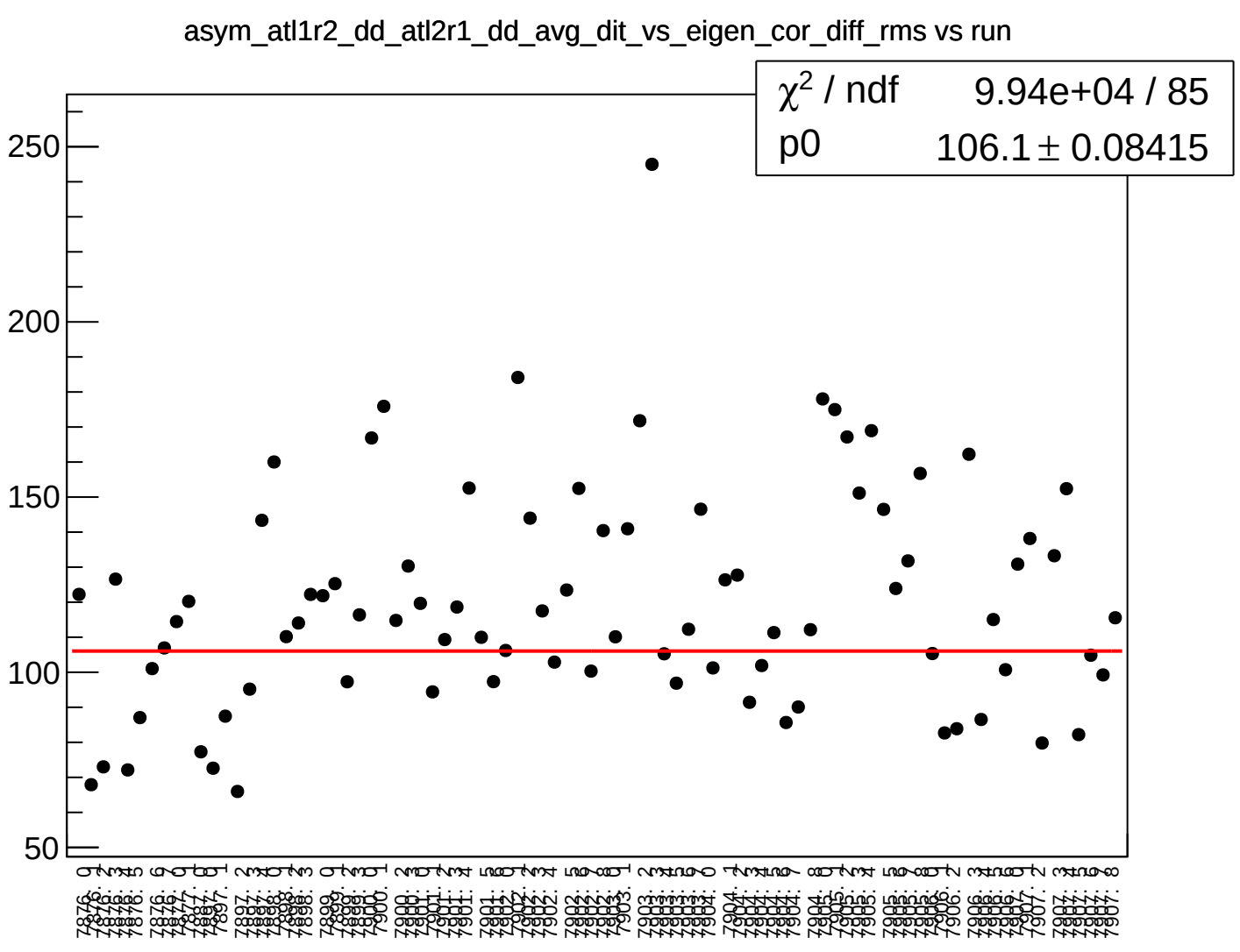

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.6 / 85
p0 −4.057e−13 ± 1.857e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean 75.44
Std Dev 0
3
2
1
0
−1
pull1D
Entries 86
Mean 0.1245
Std Dev 0.891
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

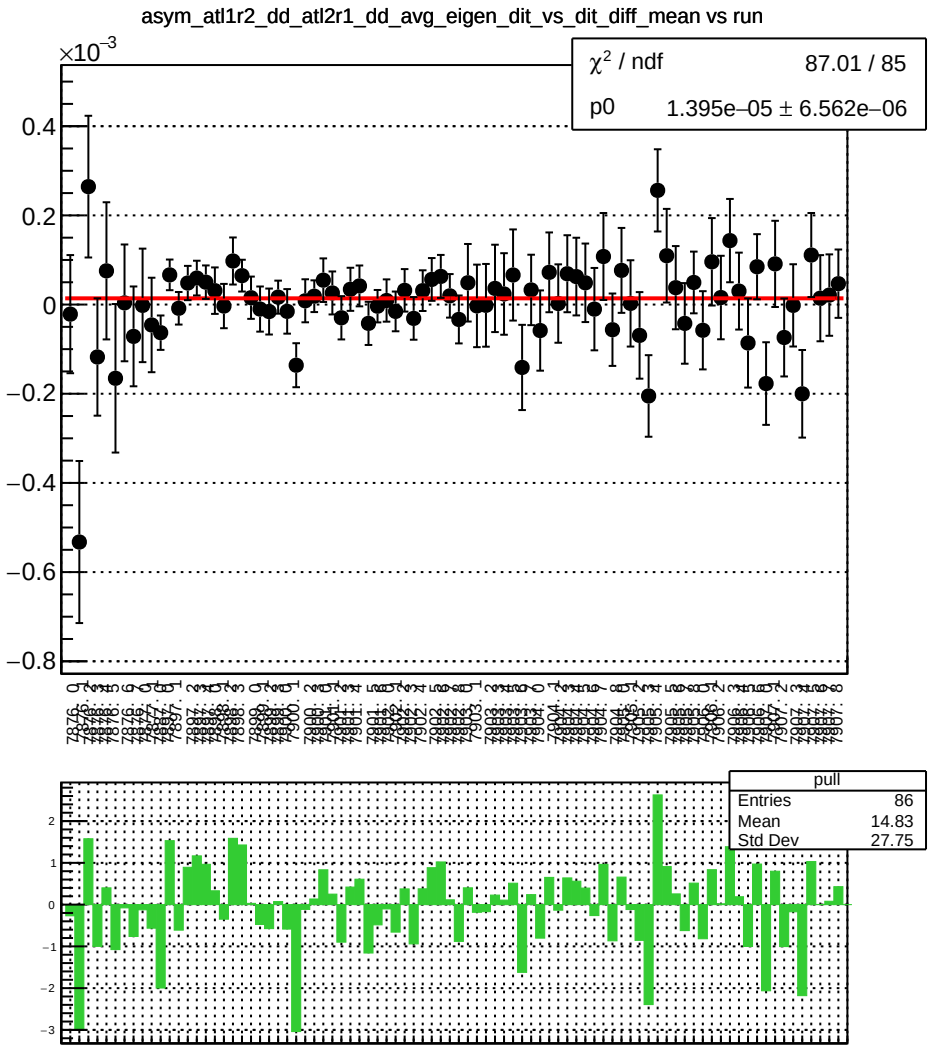

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.349e+06 / 85
p0 7.646e−11 ± 1.313e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

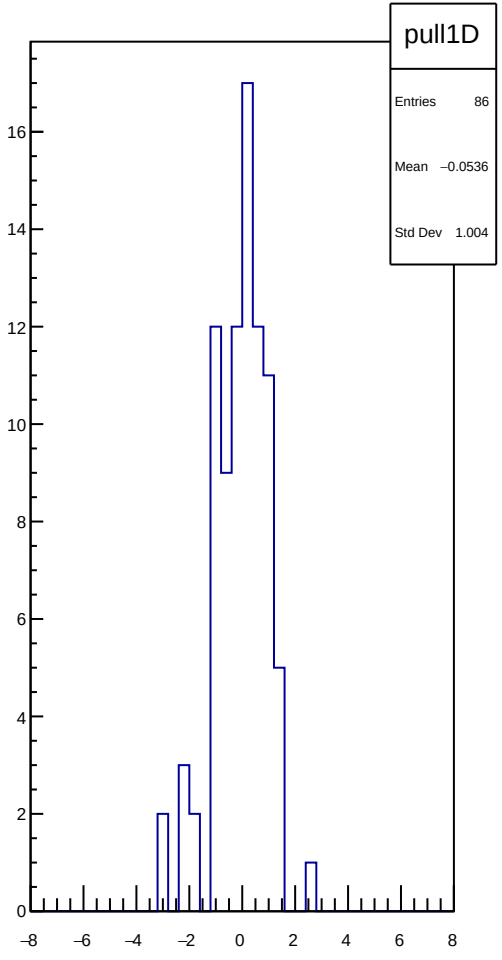

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.88 / 85
p0 0.05802 ± 0.119
pull
Entries 86
Mean 525.3
Std Dev 0
pull1D
Entries 86
Mean −0.002041
Std Dev 0.8819

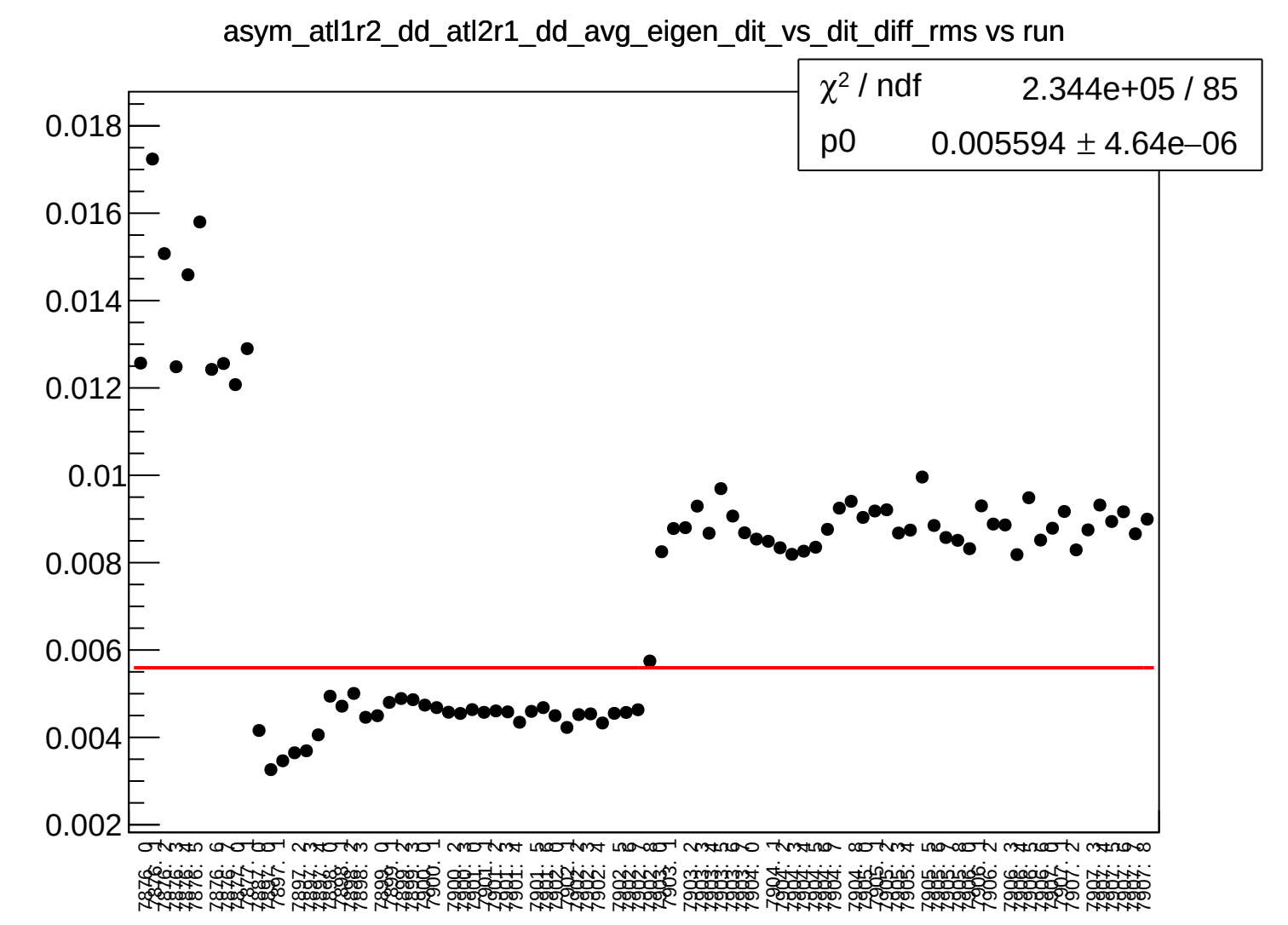

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.94e+04 / 85
p0 106.1 ± 0.08415
250
200
150
100
50

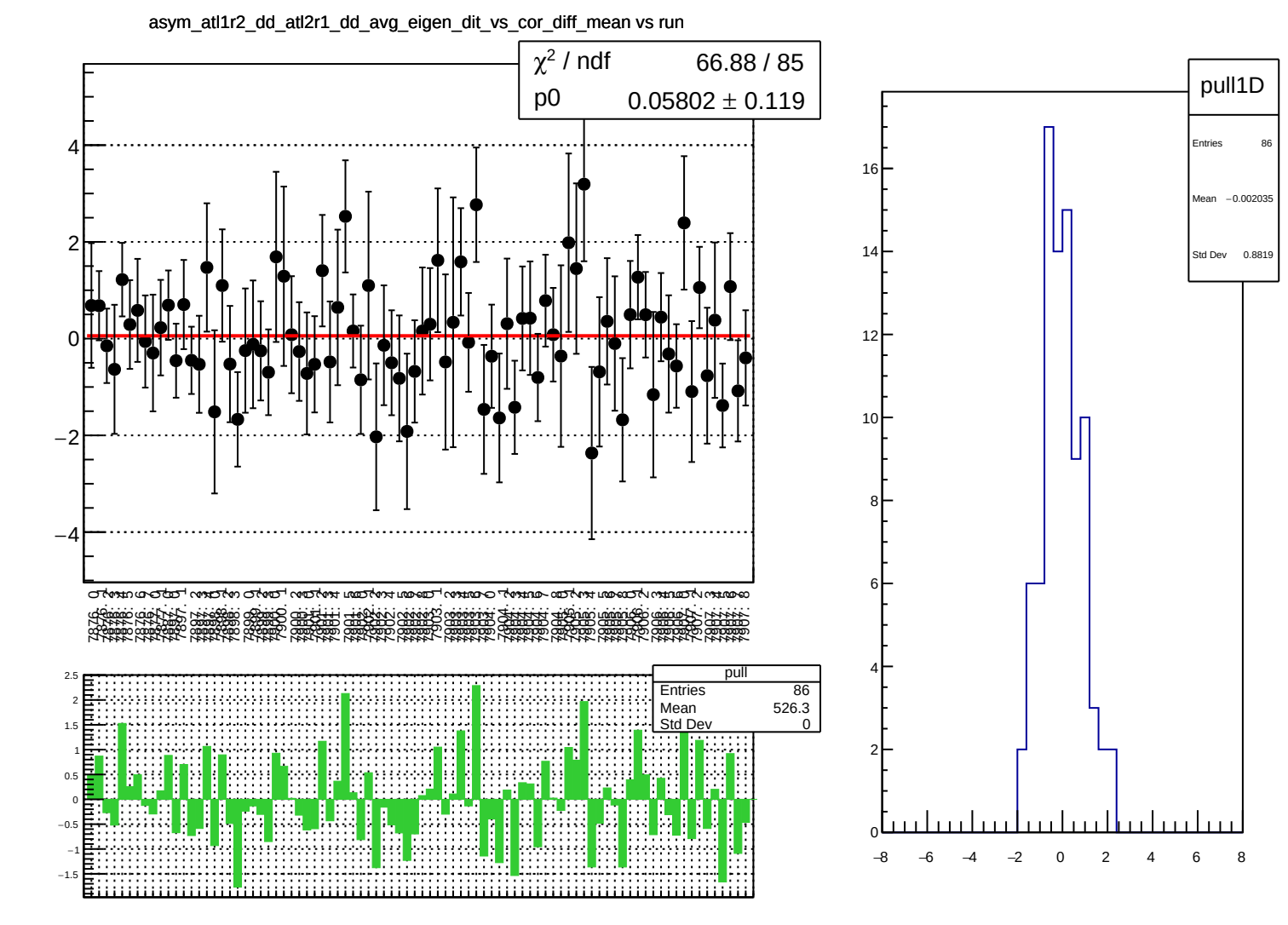

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.88 / 85
p0 0.05802 ± 0.119
pull
Entries 86
Mean 525.3
Std Dev 0
pull1D
Entries 86
Mean −0.002041
Std Dev 0.8819

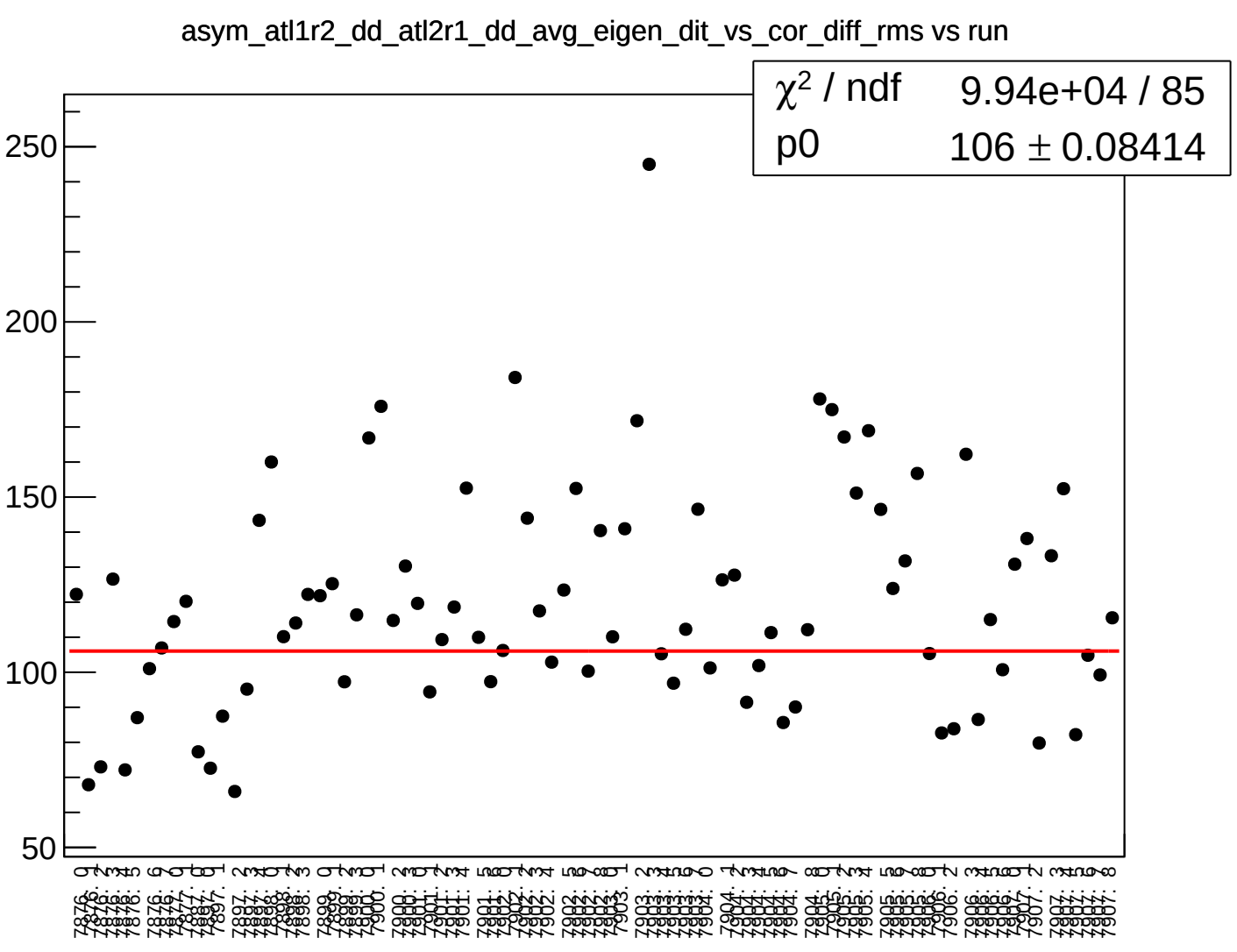

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.94e+04 / 85
p0 106.1 ± 0.08415
250
200
150
100
50

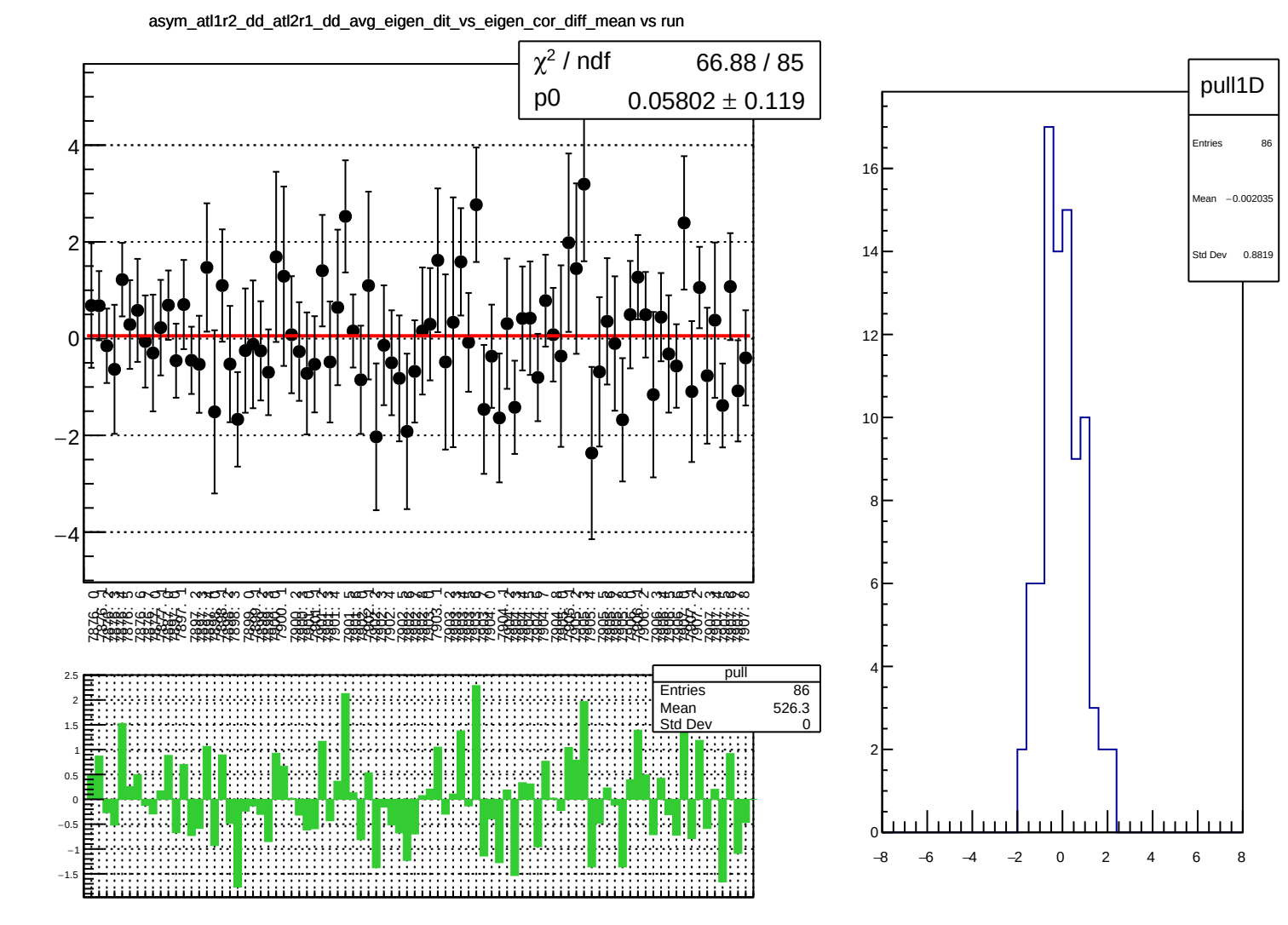

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 87.01 / 85
p0 1.395e−05 ± 6.562e−06
pull
Entries 86
Mean 14.83
Std Dev 27.75

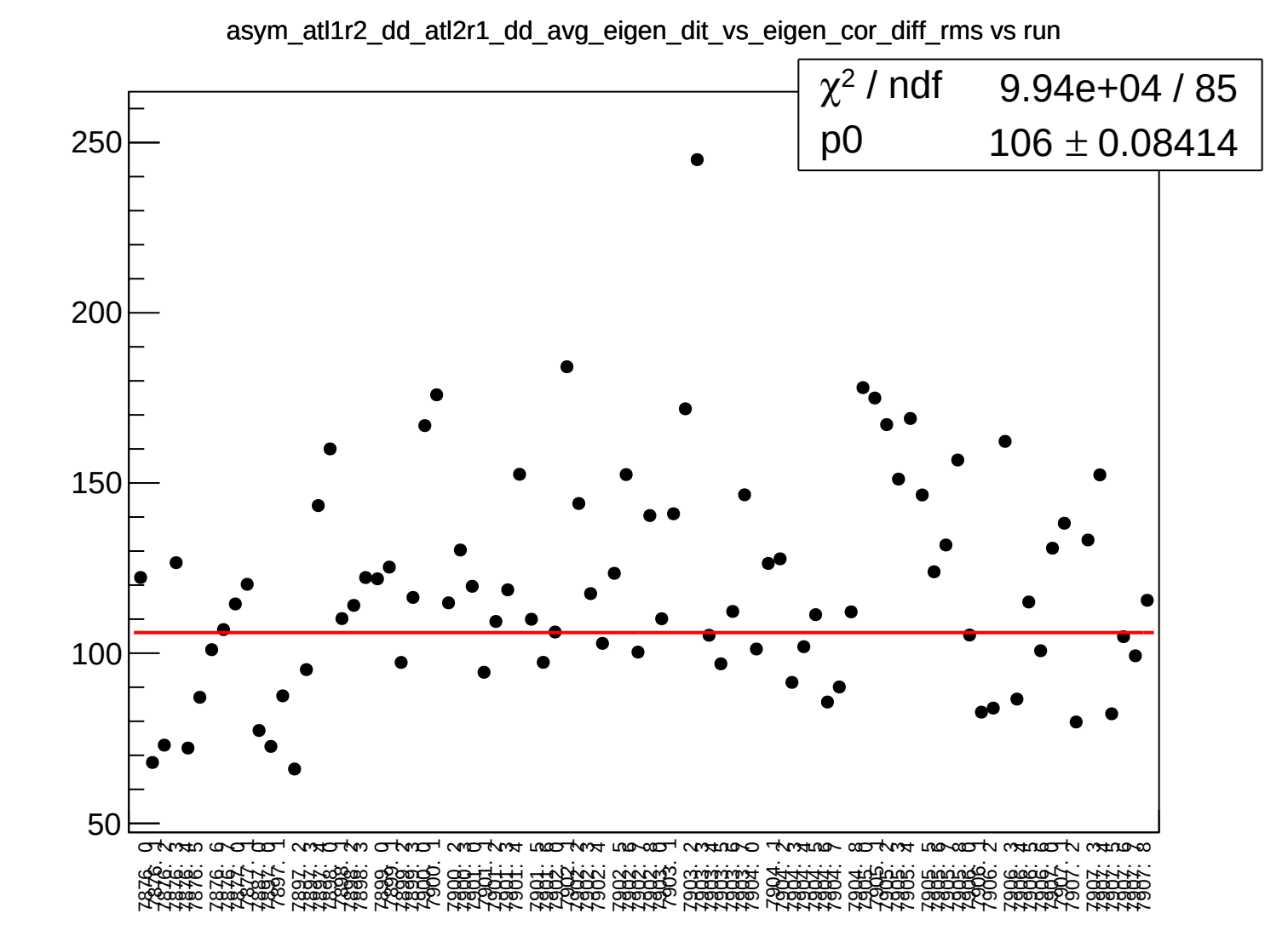

pull1D
Entries 86
Mean −0.0536
Std Dev 1.004

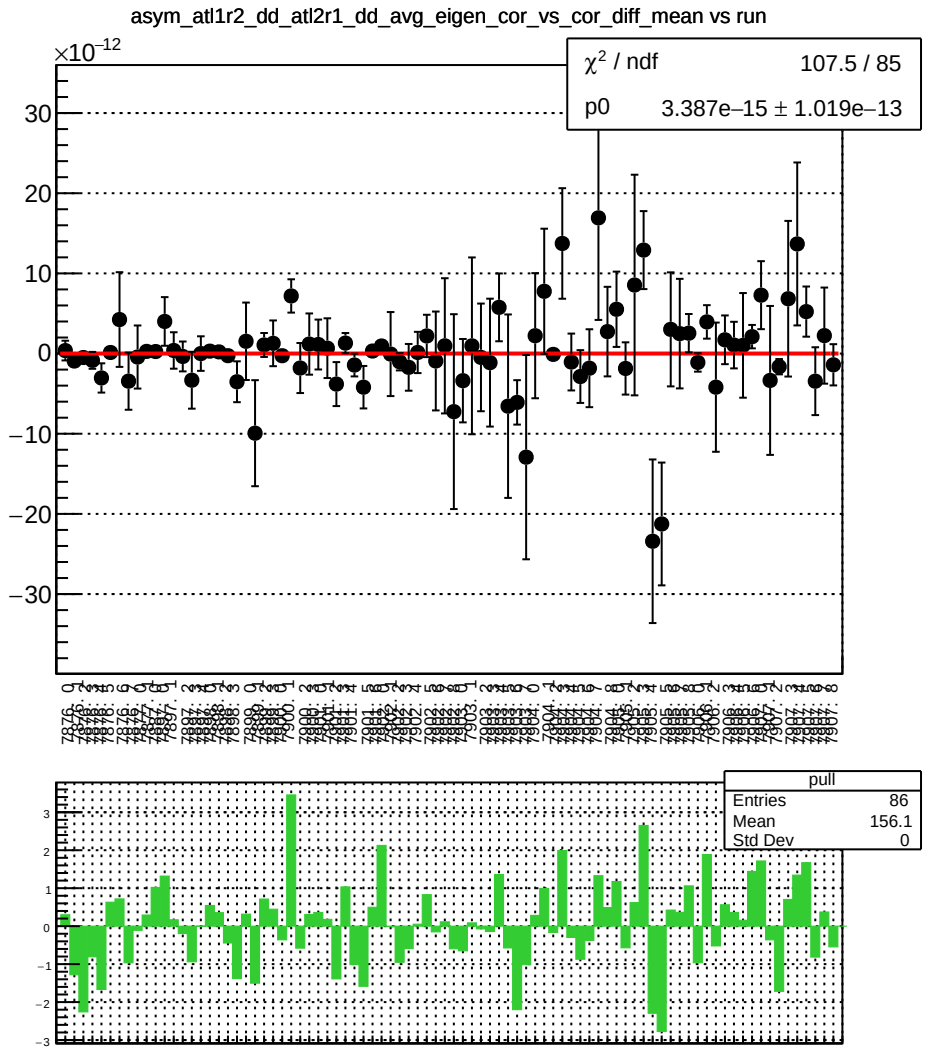

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.344e+05 / 85
p0 0.005594 ± 4.64e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

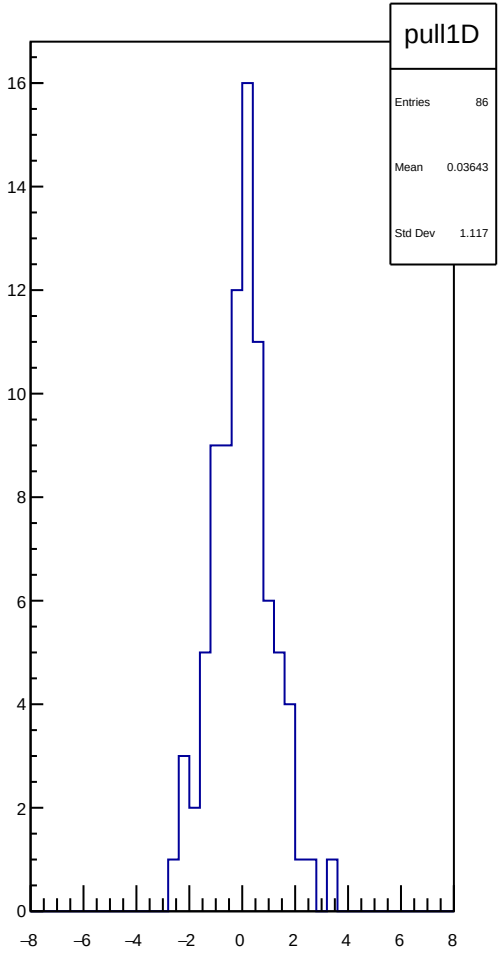

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.88 / 85
p0 0.05802 ± 0.119
pull
Entries 86
Mean 526.3
Std Dev 0
pull1D
Entries 86
Mean −0.002035
Std Dev 0.8819

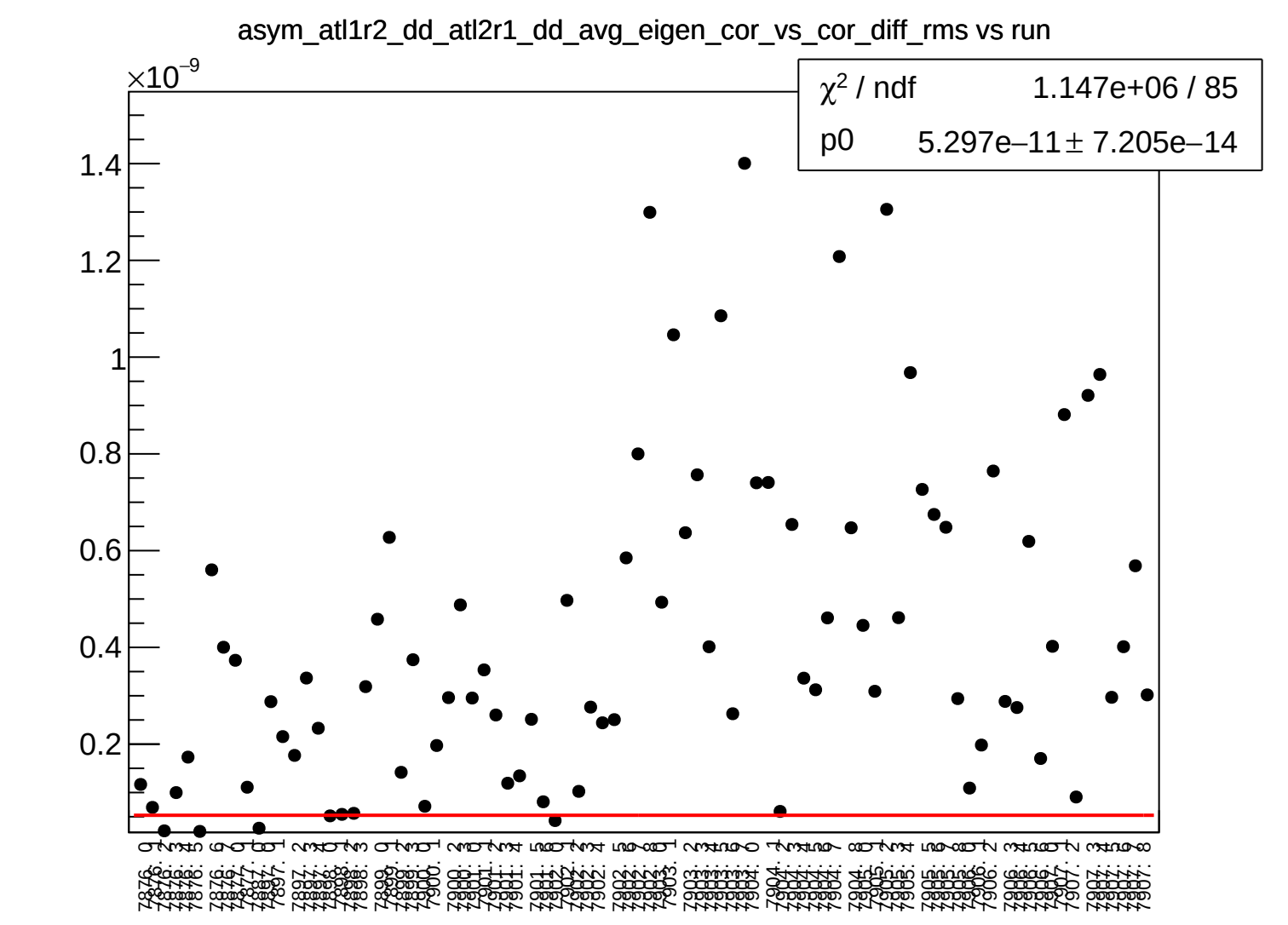

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.94e+04 / 85
p0 106 ± 0.08414
250
200
150
100
50

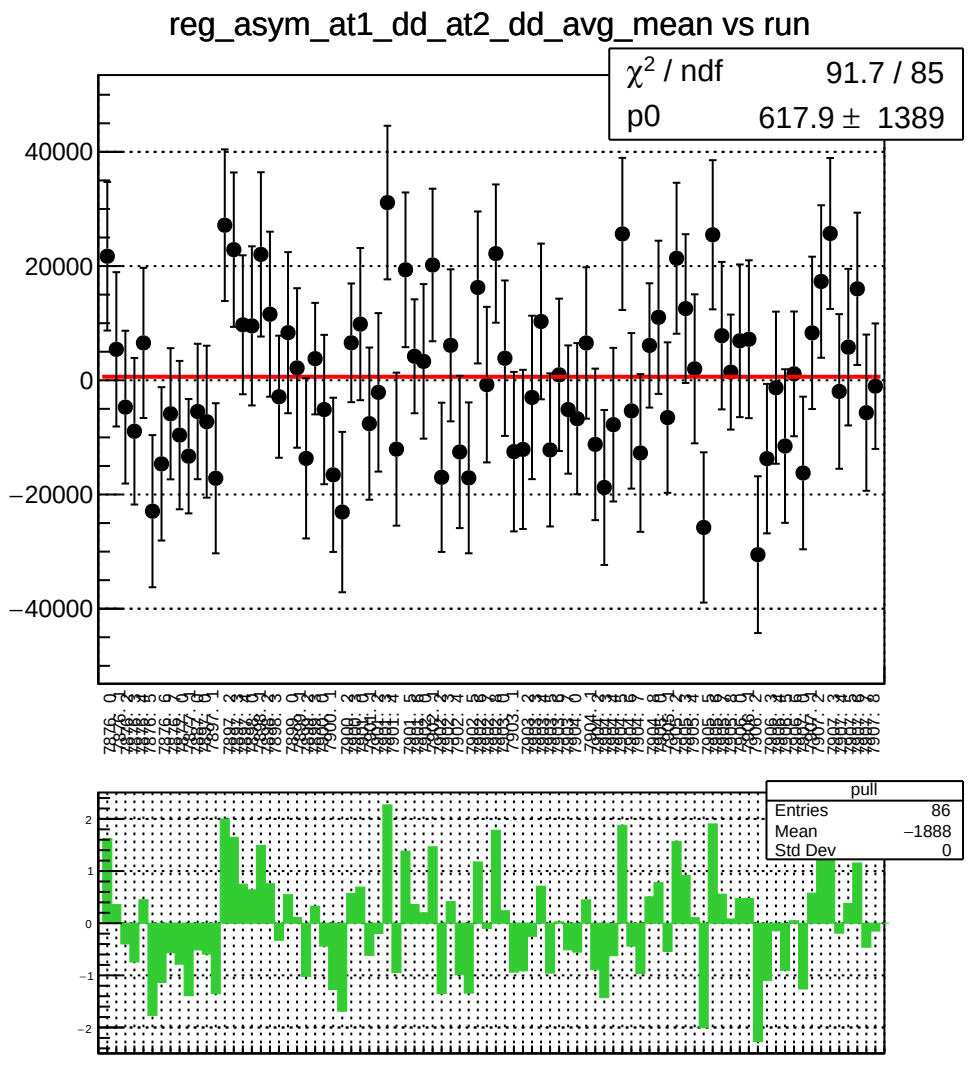

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.88 / 85
p0 0.05802 ± 0.119
pull
Entries 86
Mean 526.3
Std Dev 0
pull1D
Entries 86
Mean −0.002035
Std Dev 0.8819

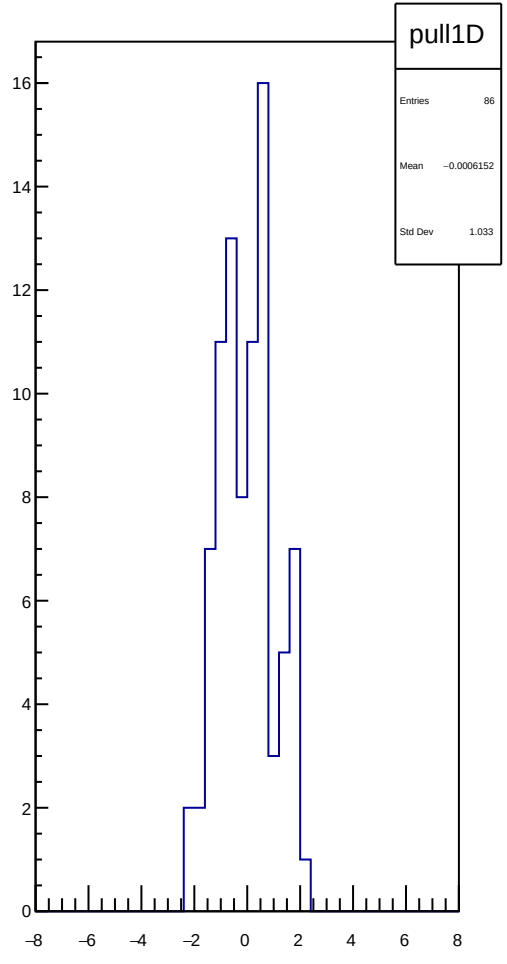

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.94e+04 / 85
p0 106 ± 0.08414
250
200
150
100
50

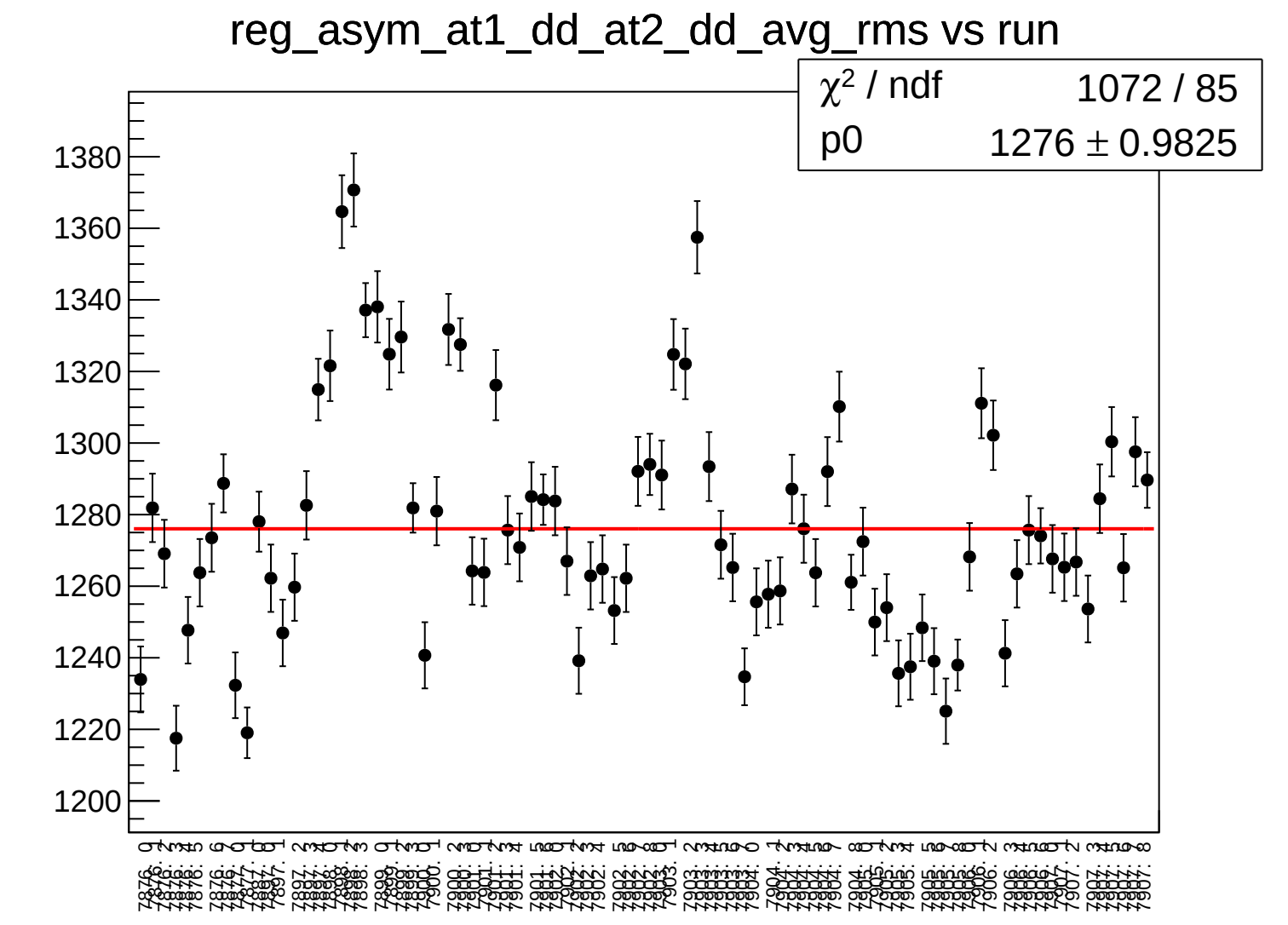

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.5 / 85
p0 3.387e−15 ± 1.019e−13
pull
Entries 86
Mean 156.1
Std Dev 0

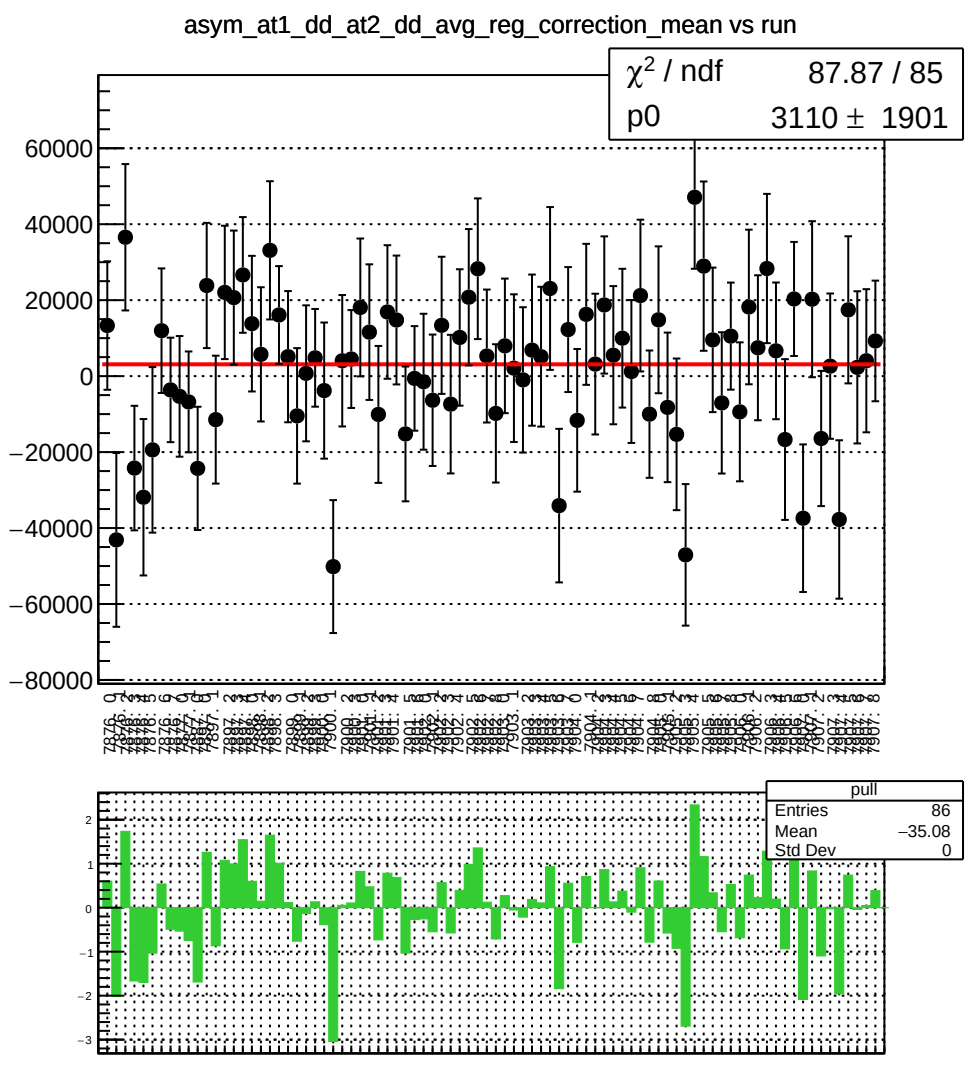

pull1D
Entries 86
Mean 0.03643
Std Dev 1.117

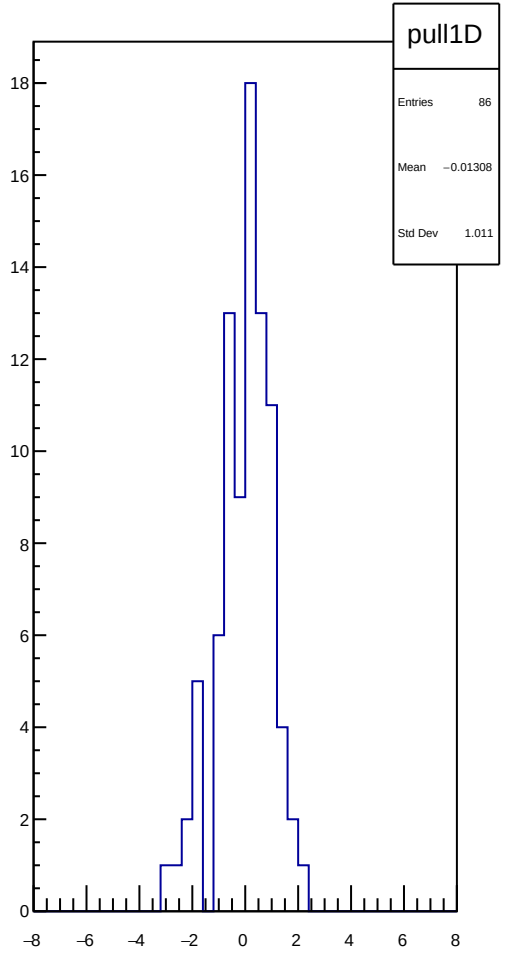

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.147e+06 / 85
p0 5.297e−11 ± 7.205e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

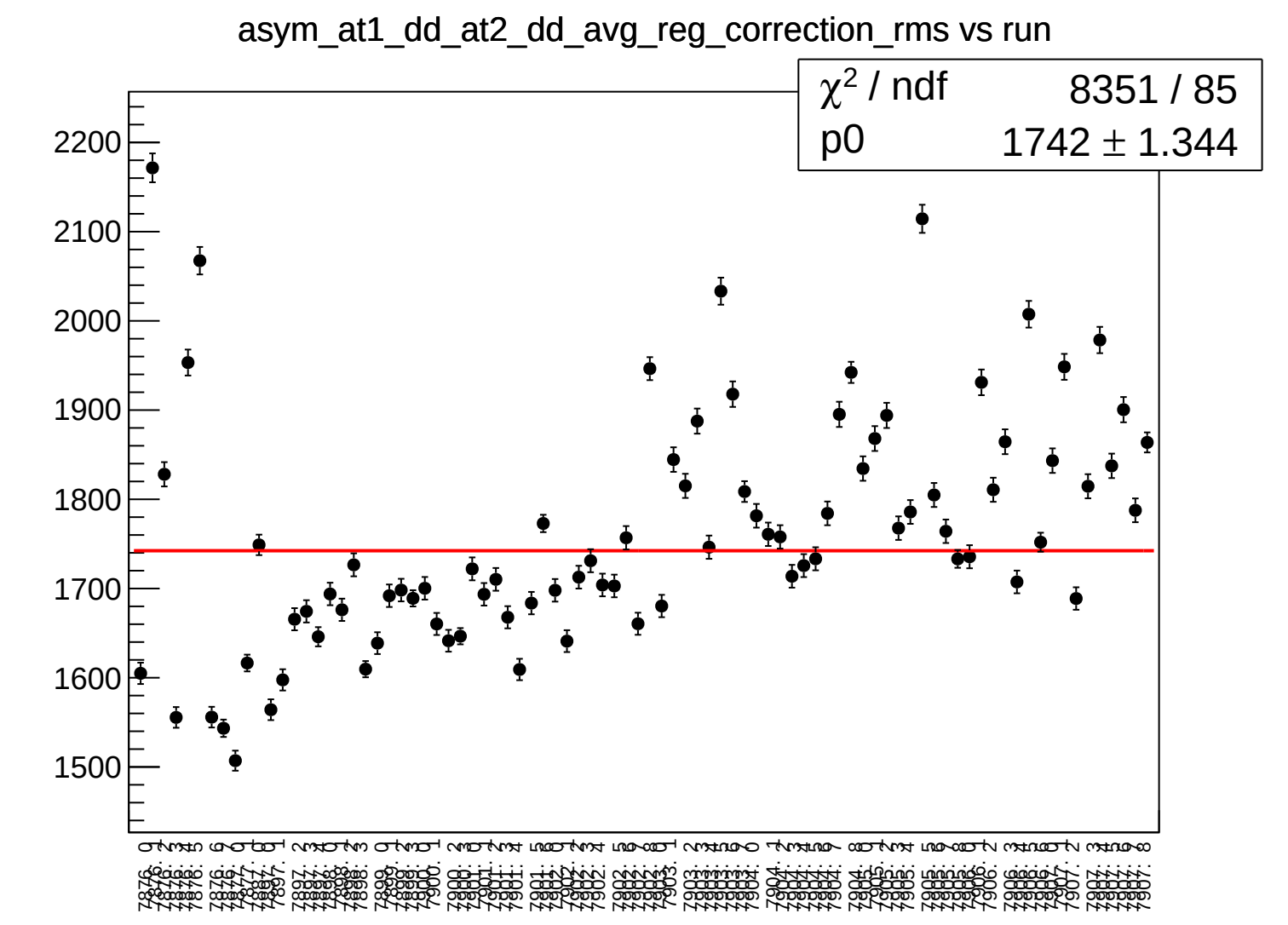

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.7 / 85
p0 617.9 ± 1389
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1888
Std Dev 0
2
1
0
−1
−2

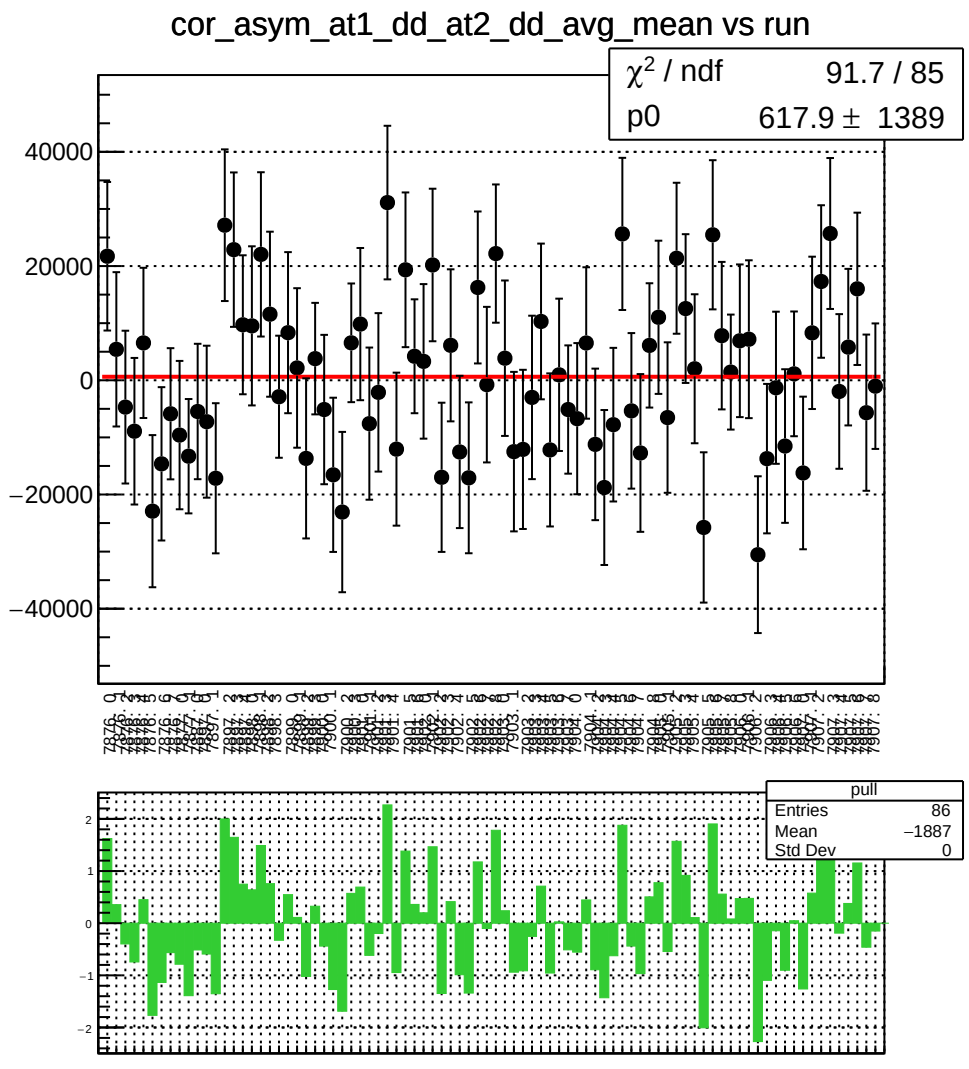

pull1D
Entries 86
Mean −0.0006152
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

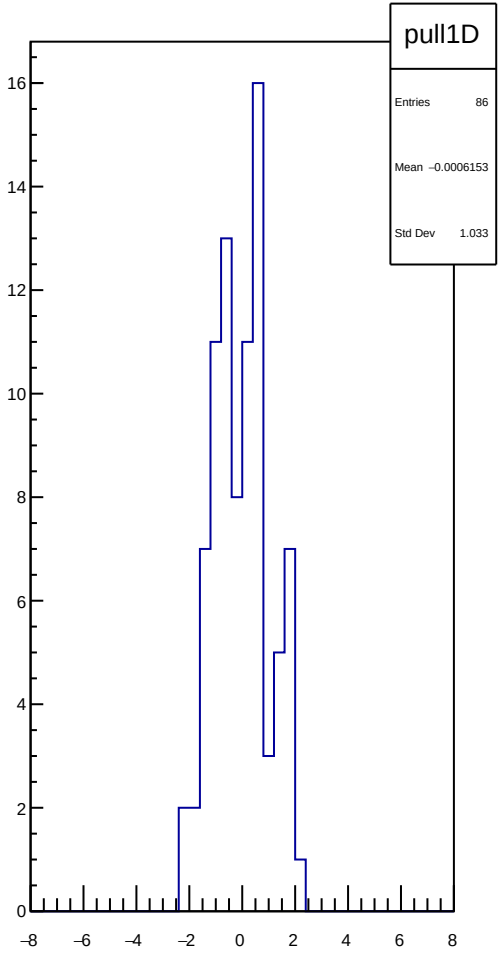

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1072 / 85
p0 1276 ± 0.9825
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

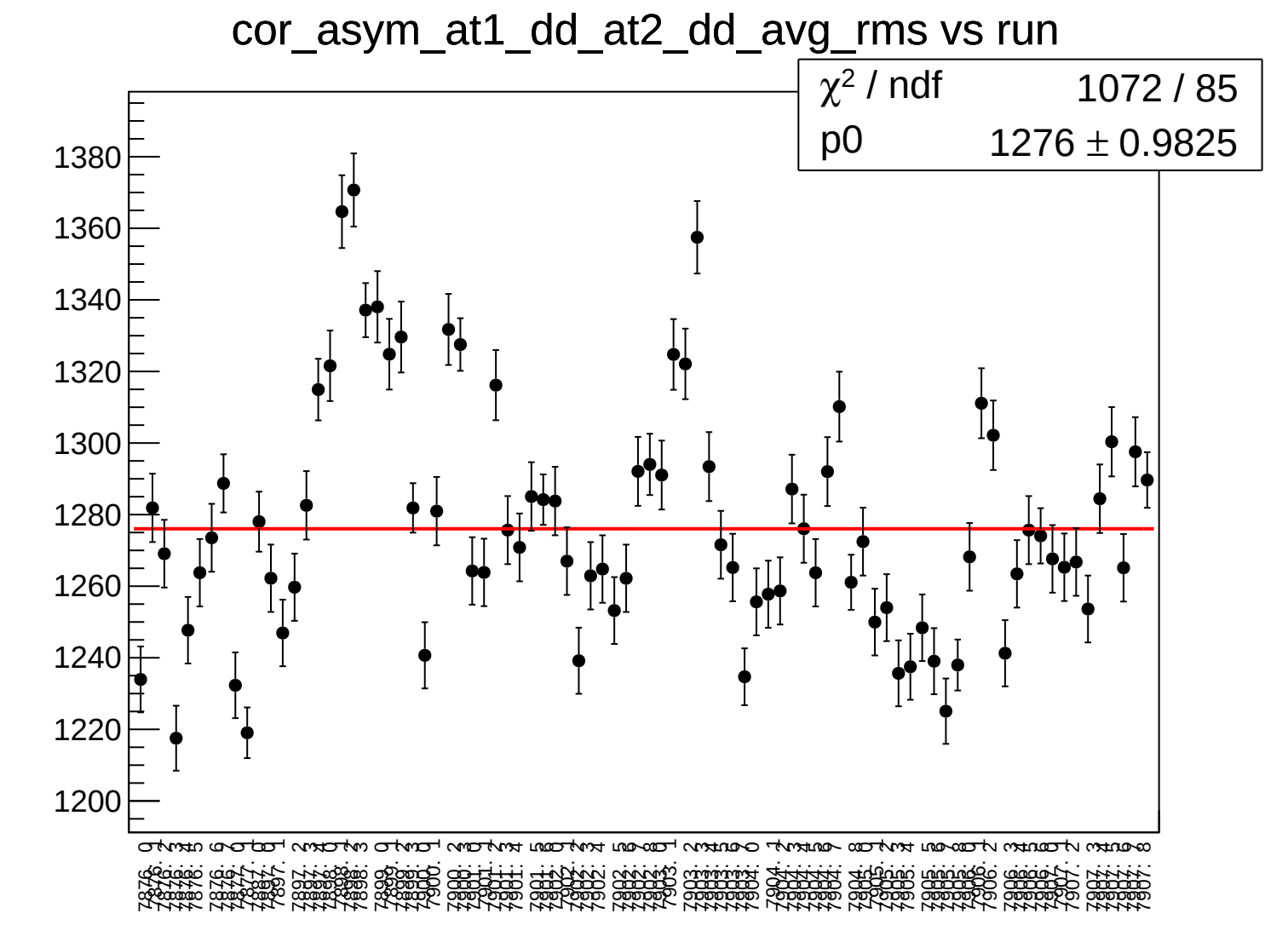

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 87.87 / 85
p0 3110 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −35.08
Std Dev 0
2
1
0
−1
−2
−3

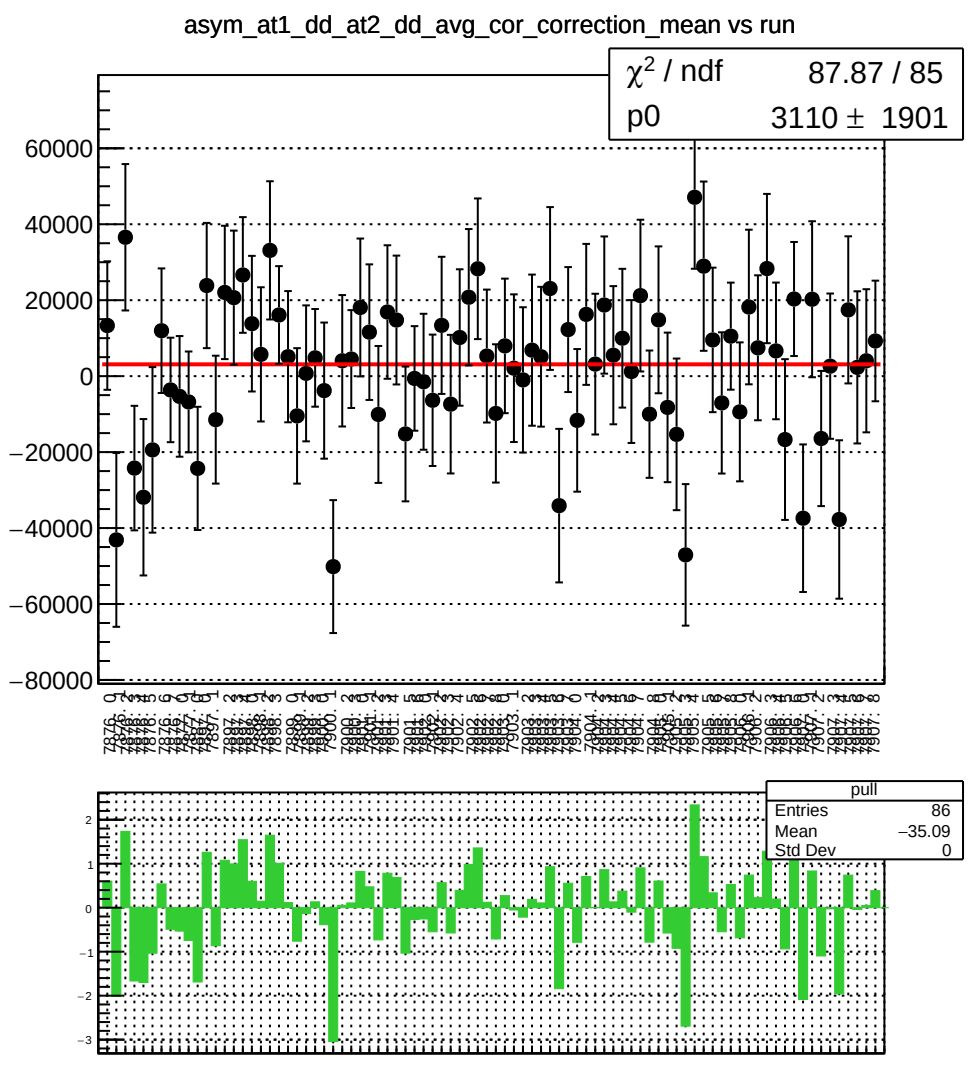

pull1D
Entries 86
Mean −0.01308
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

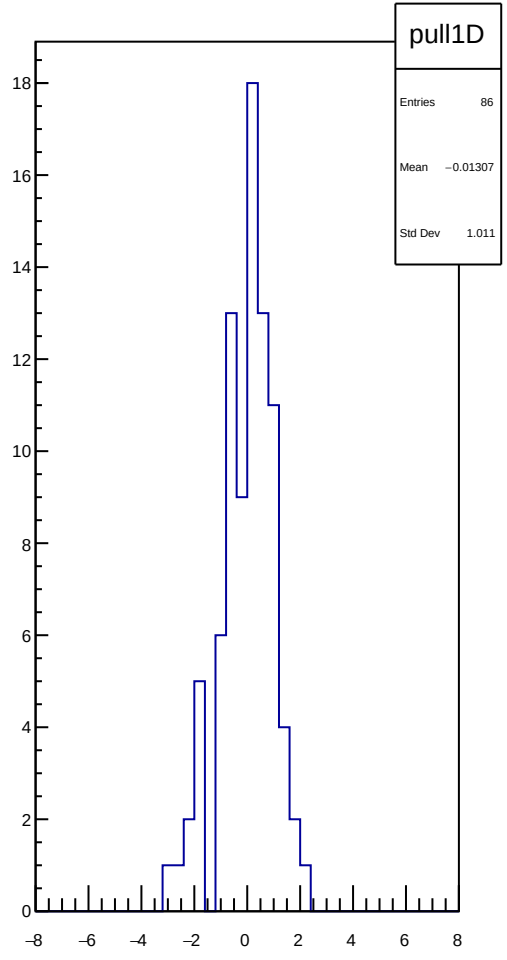

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 8351 / 85
p0 1742 ± 1.344
2200
2100
2000
1900
1800
1700
1600
1500

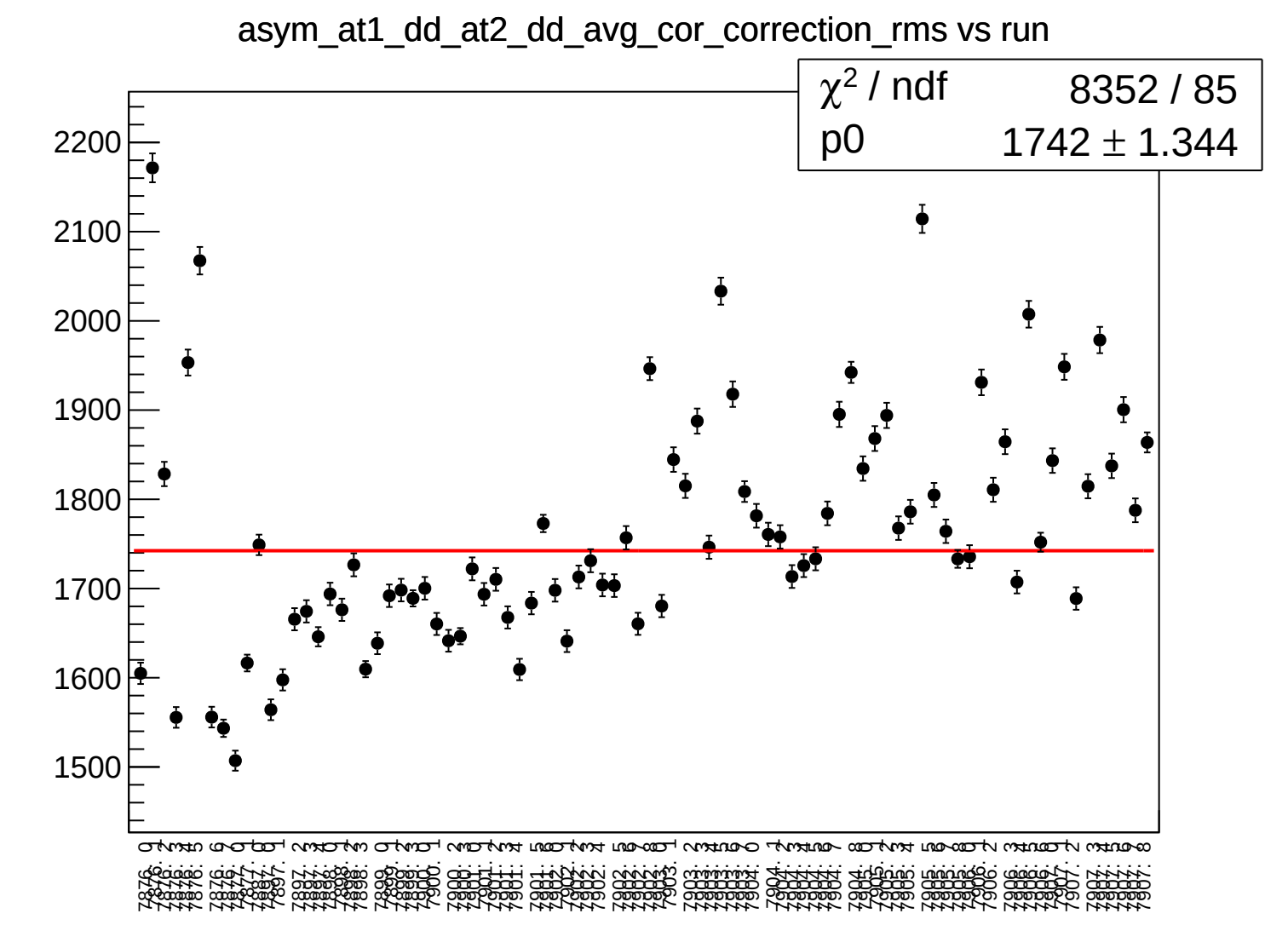

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.7 / 85
p0 617.9 ± 1389
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1887
Std Dev 0
2
1
0
−1
−2

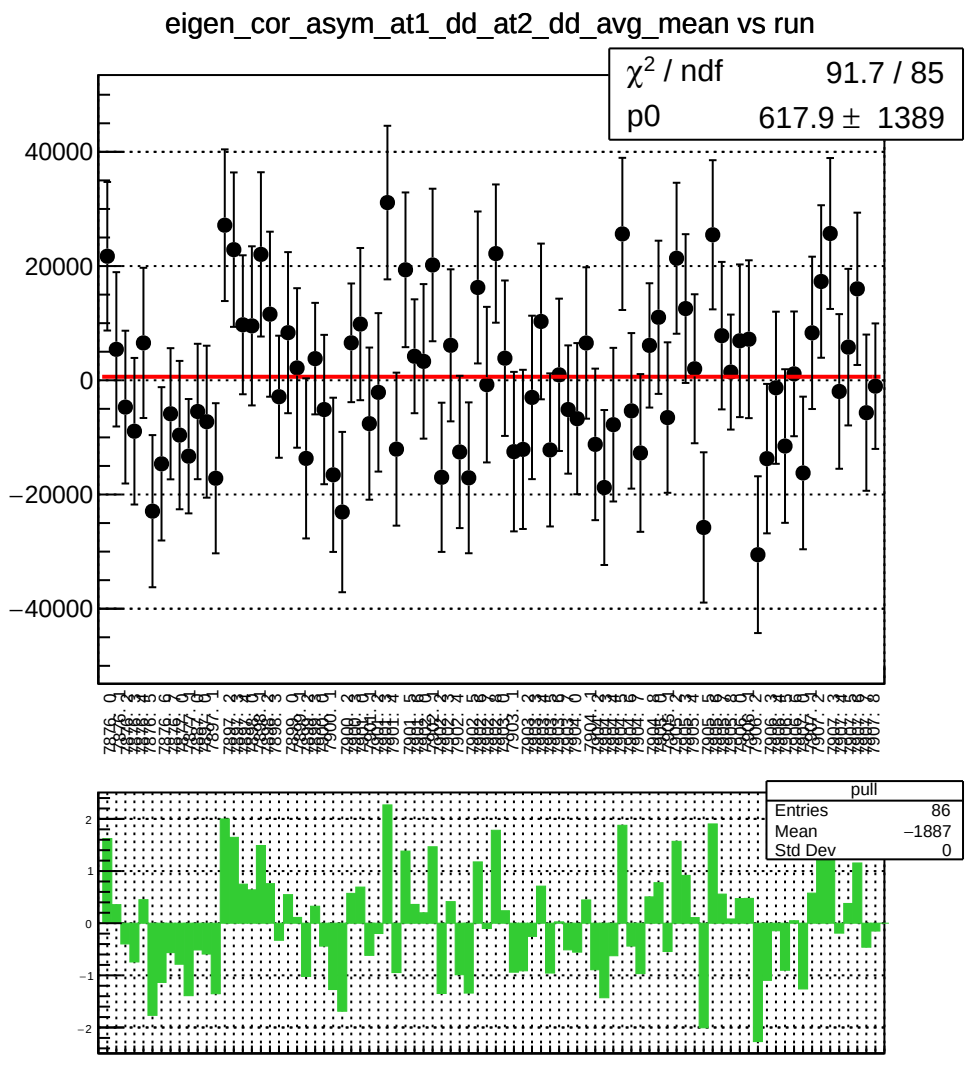

pull1D
Entries 86
Mean −0.0006153
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

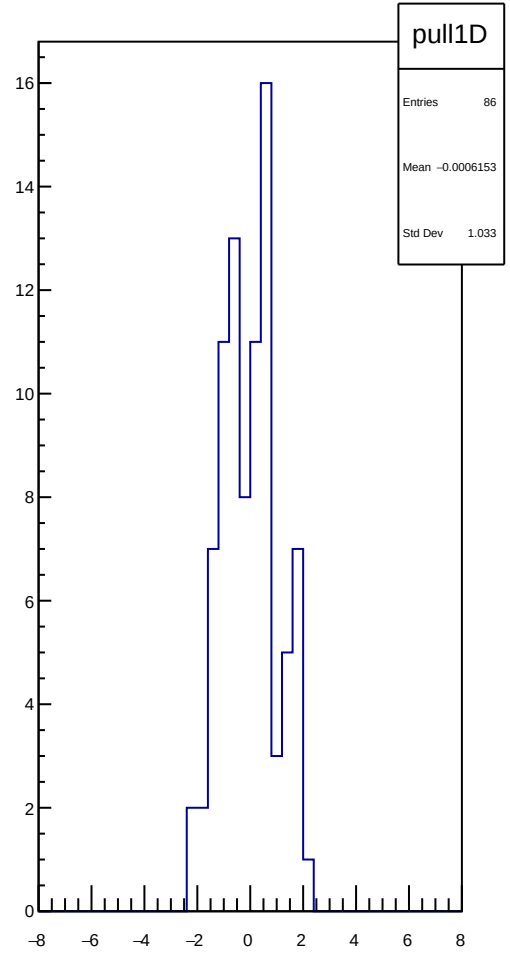

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1072 / 85
p0 1276 ± 0.9825
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

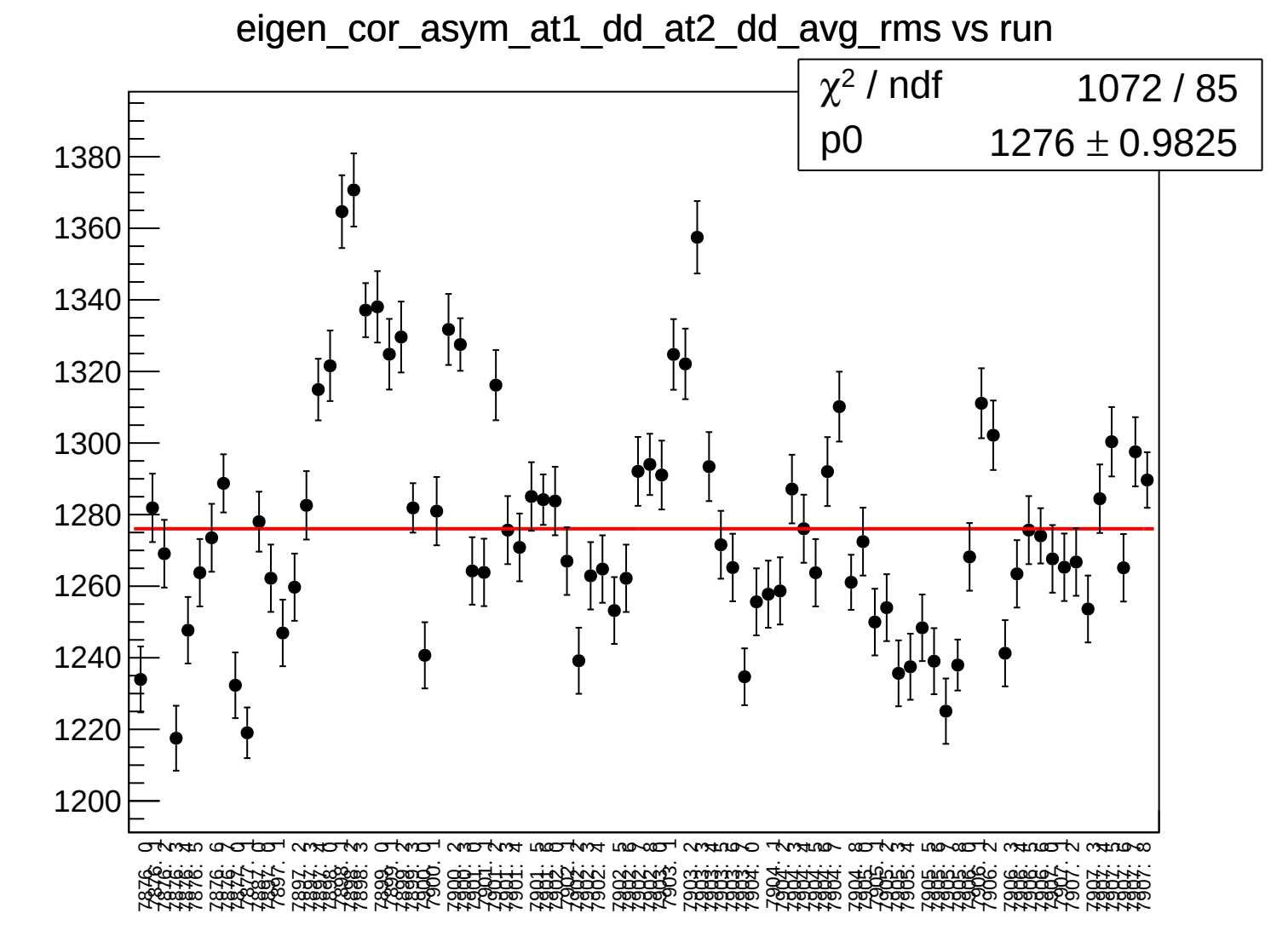

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 87.87 / 85
p0 3110 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −35.09
Std Dev 0
2
1
0
−1
−2
−3

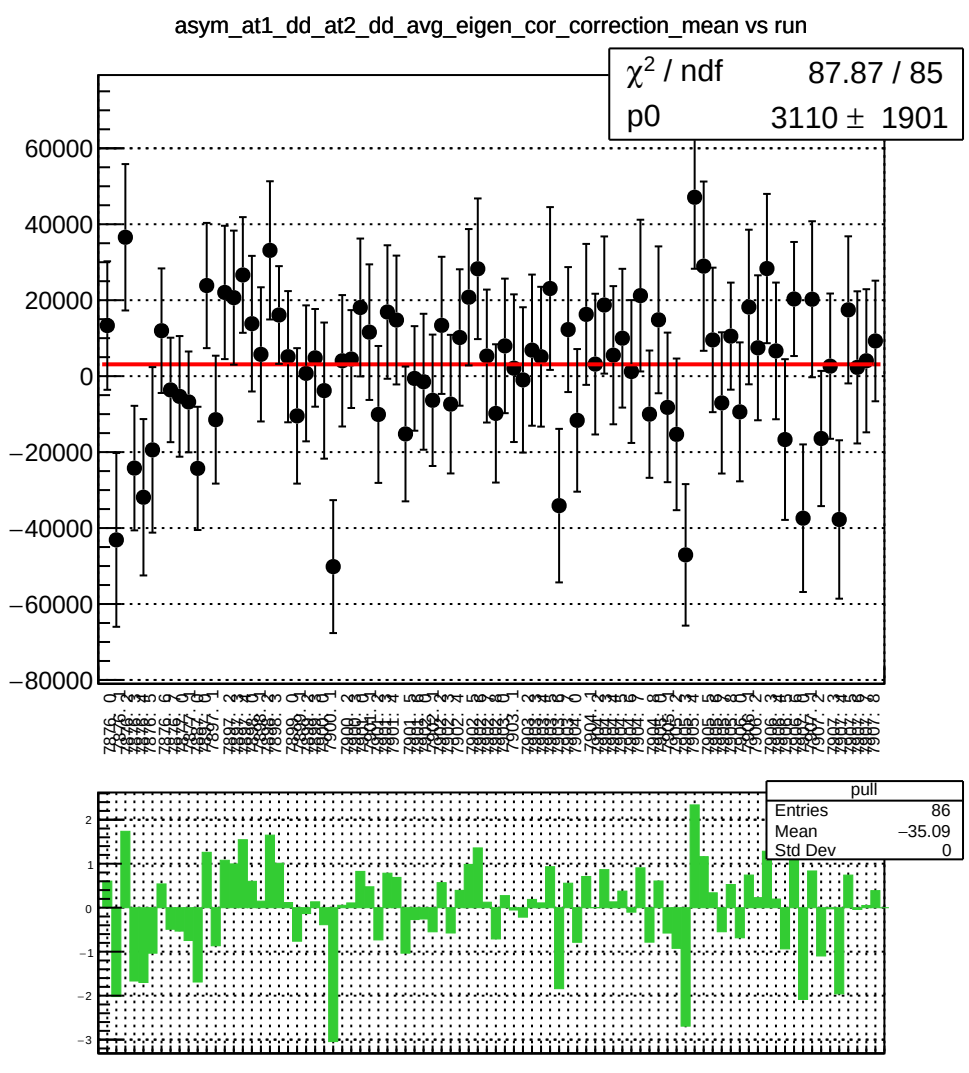

pull1D
Entries 86
Mean −0.01307
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

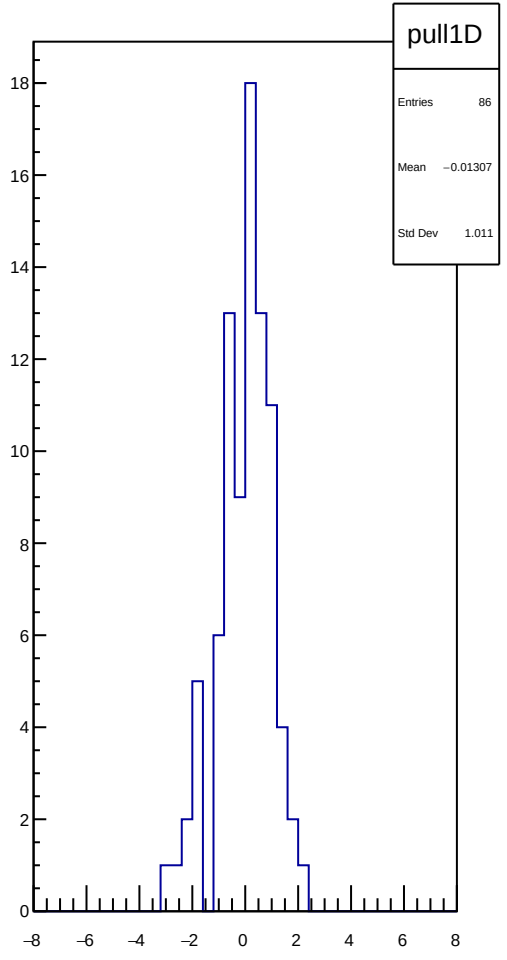

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 8352 / 85
p0 1742 ± 1.344
2200
2100
2000
1900
1800
1700
1600
1500

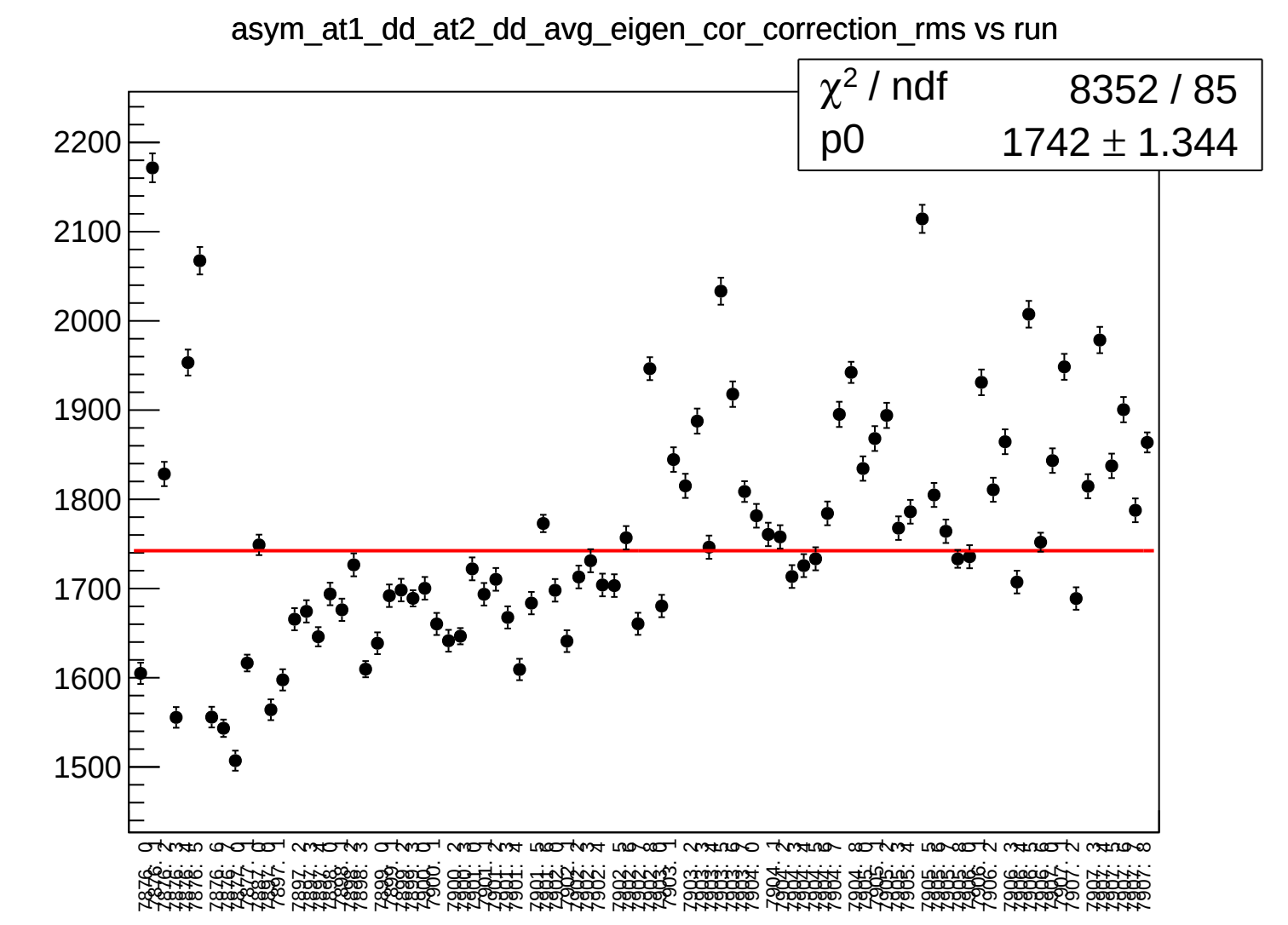

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.7 / 85
p0 617.9 ± 1389
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1887
Std Dev 0
2
1
0
−1
−2

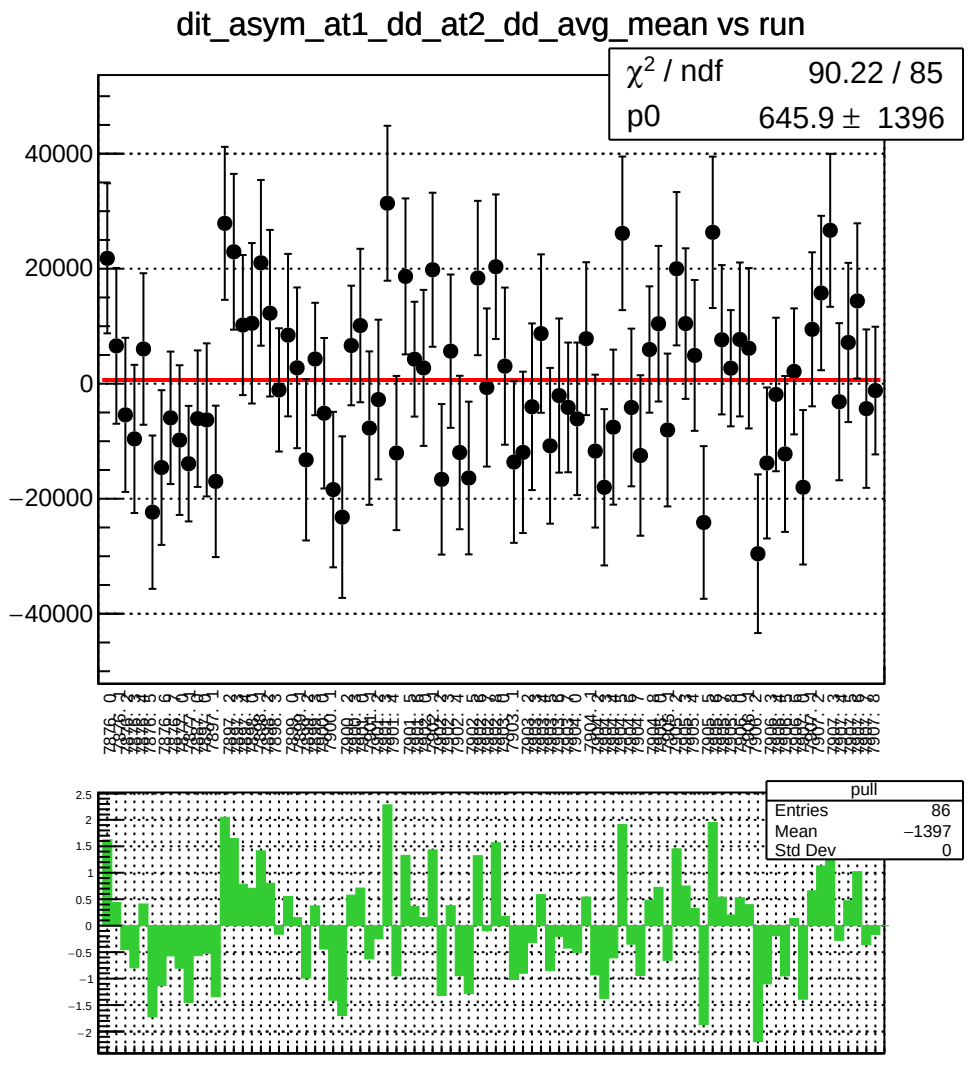

pull1D
Entries 86
Mean −0.0006153
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

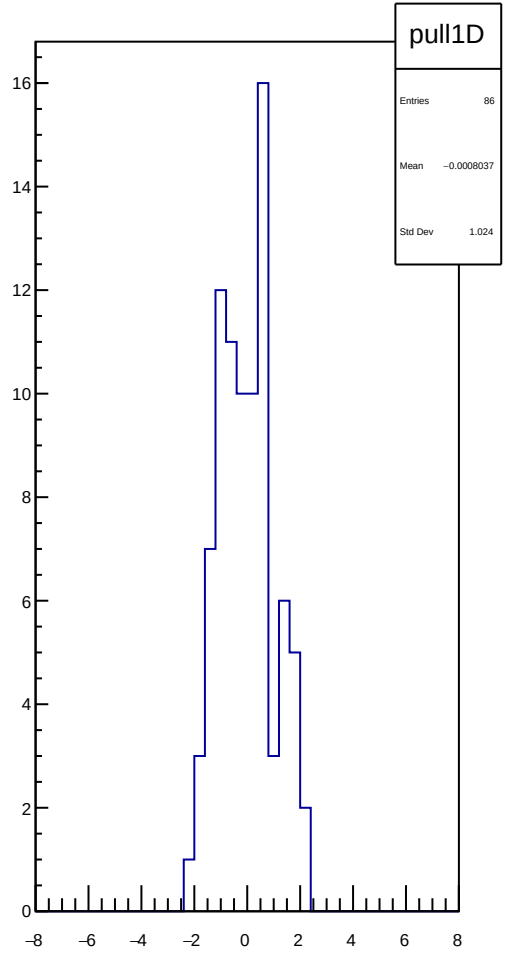

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1072 / 85
p0 1276 ± 0.9825
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

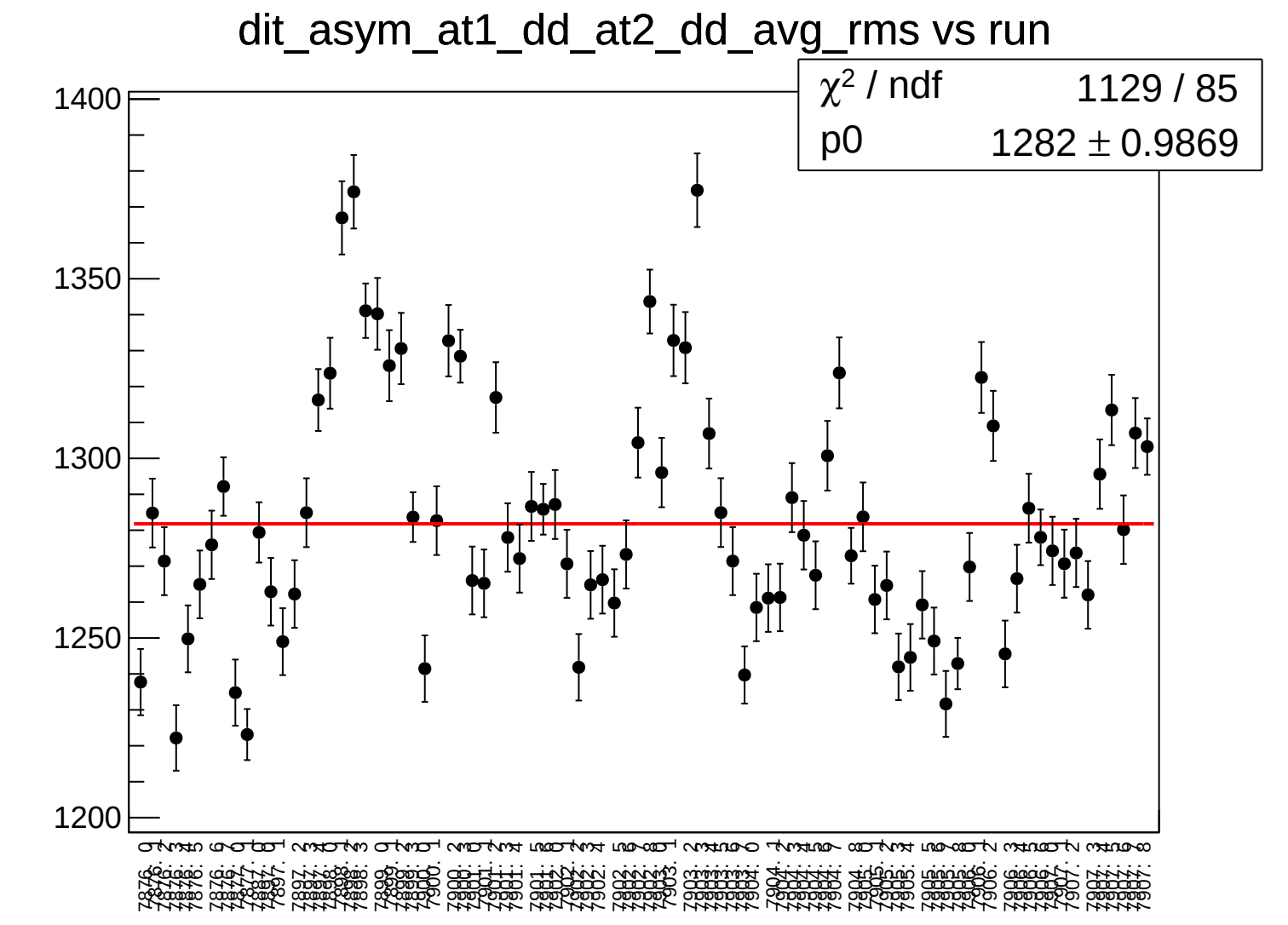

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.87 / 85
p0 3110 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −35.09
Std Dev 0
2
1
0
−1
−2
−3

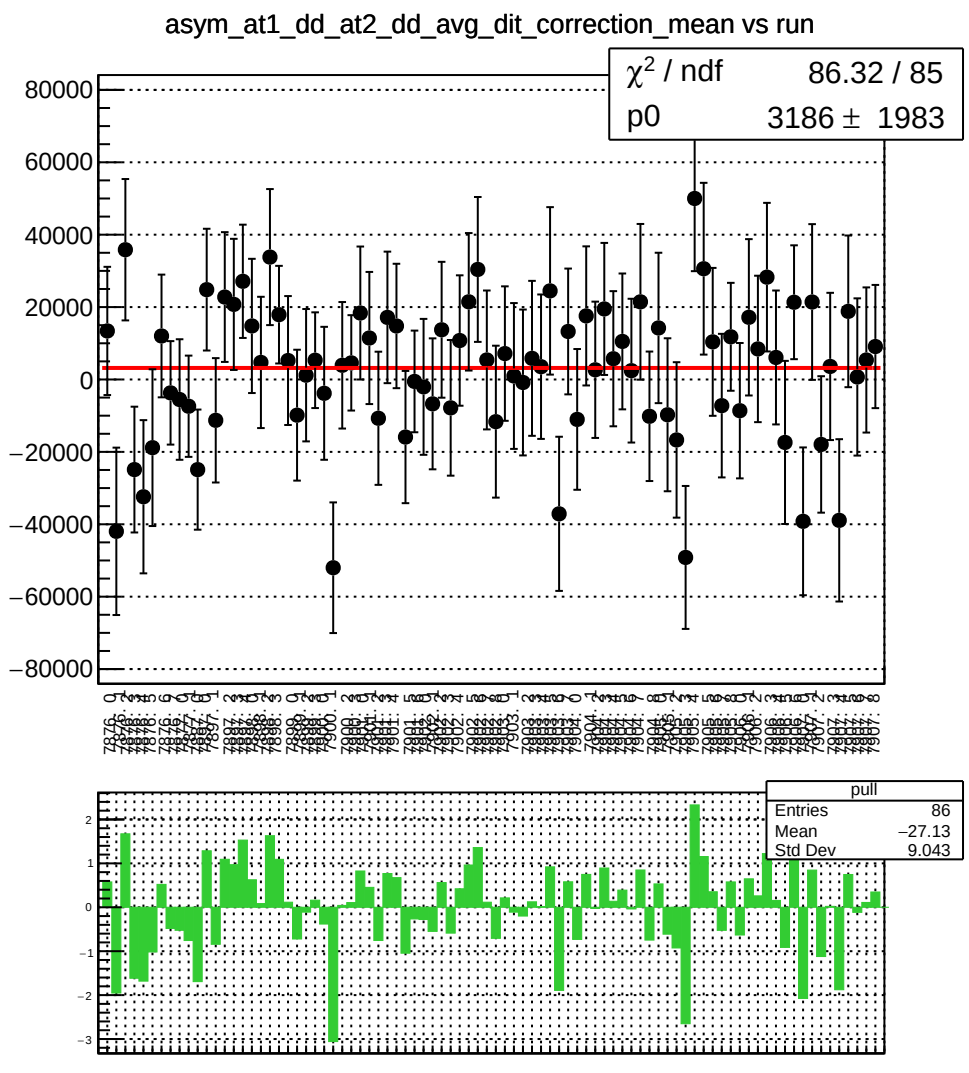

pull1D
Entries 86
Mean −0.01307
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

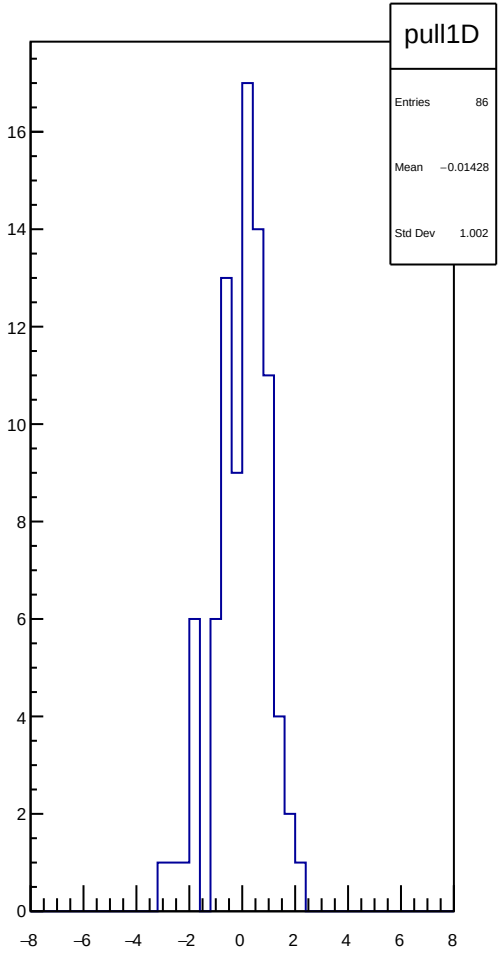

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8352 / 85
p0 1742 ± 1.344
2200
2100
2000
1900
1800
1700
1600
1500

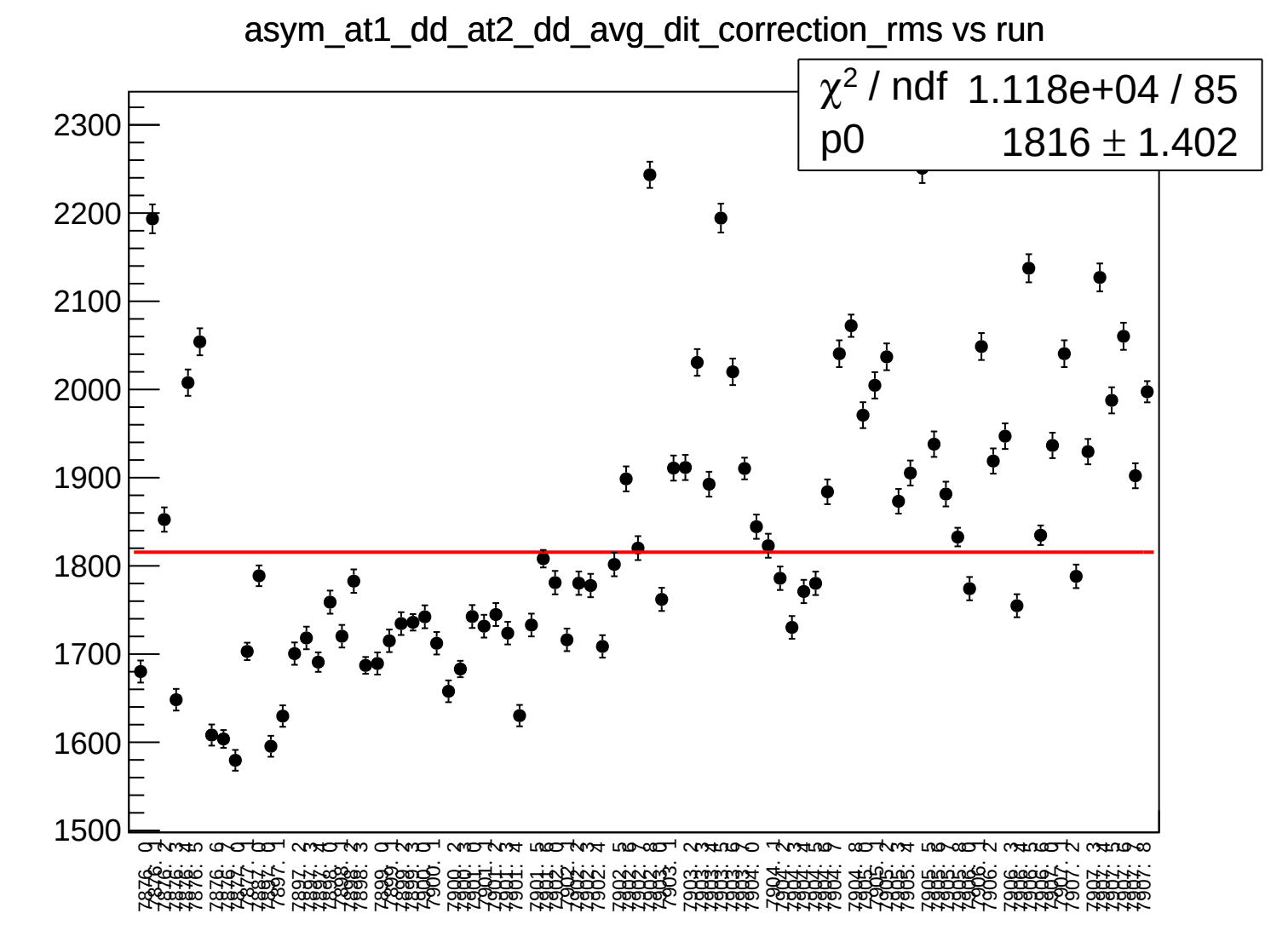

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 90.22 / 85
p0 645.9 ± 1396
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1397
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

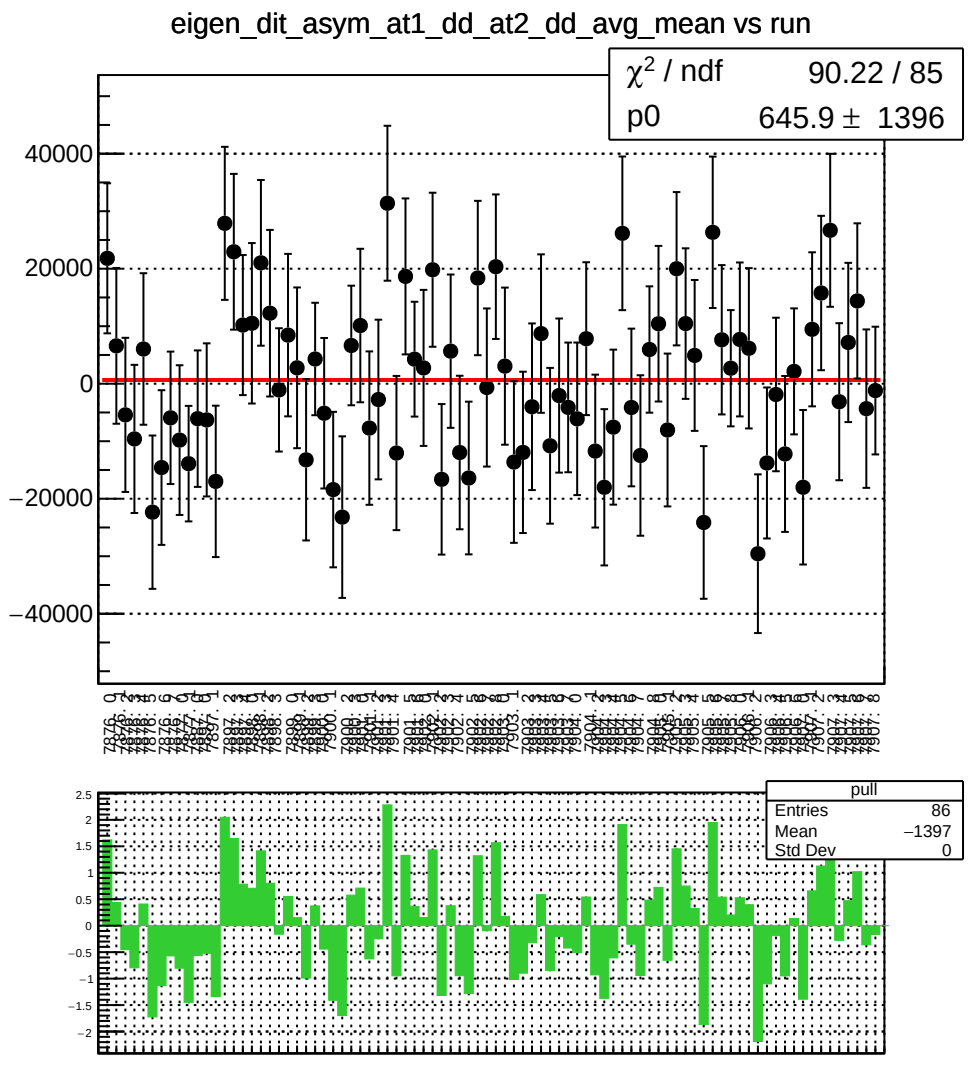

pull1D
Entries 86
Mean −0.0008037
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

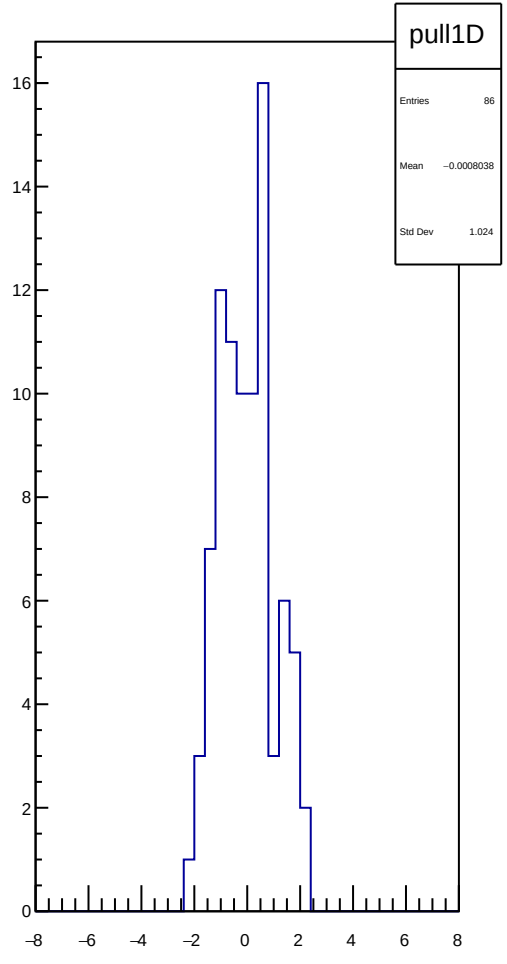

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1129 / 85
p0 1282 ± 0.9869
1400
1350
1300
1250
1200

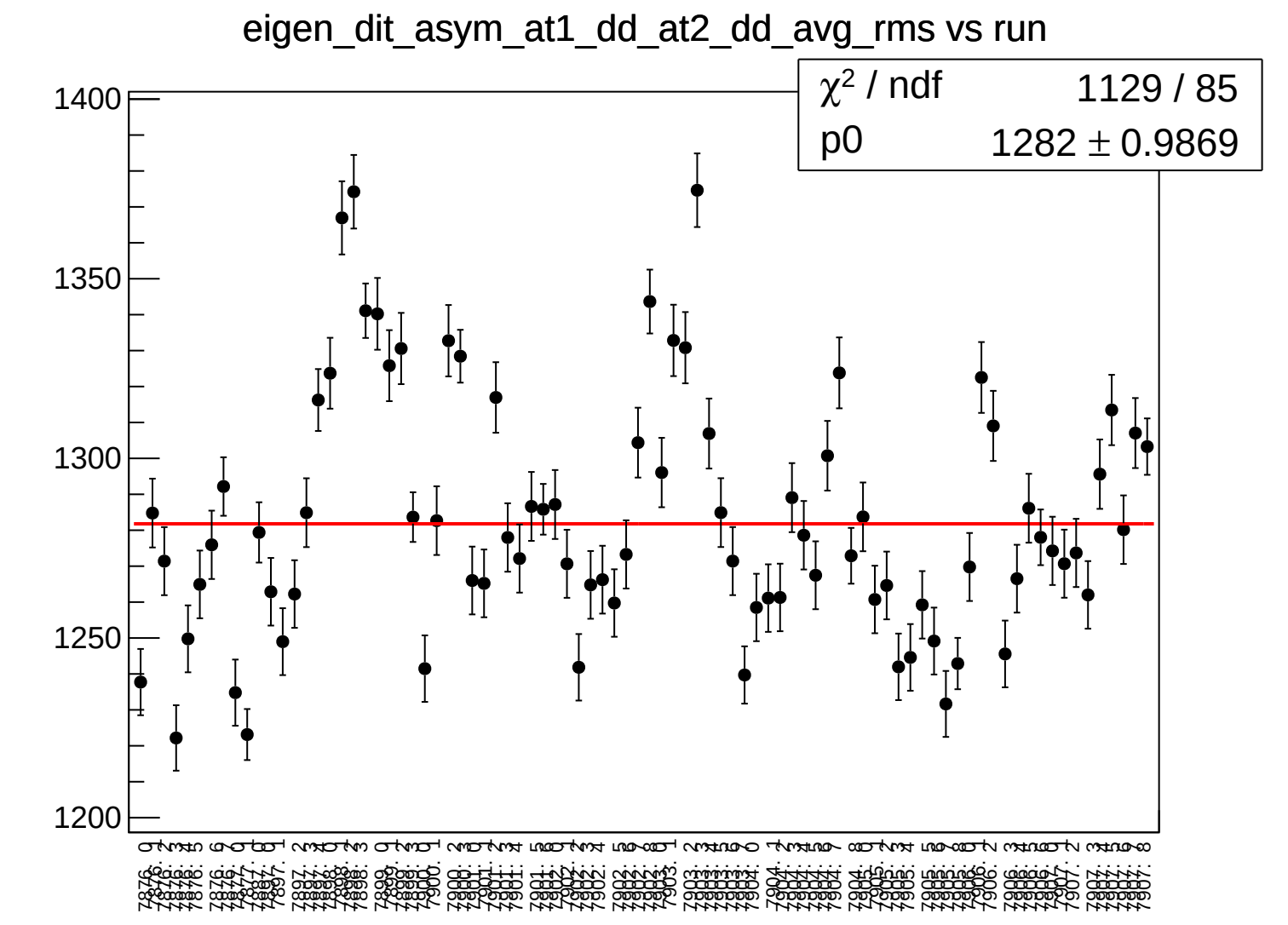

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 86.32 / 85
p0 3186 ± 1983
pull
Entries 86
Mean −27.13
Std Dev 9.043

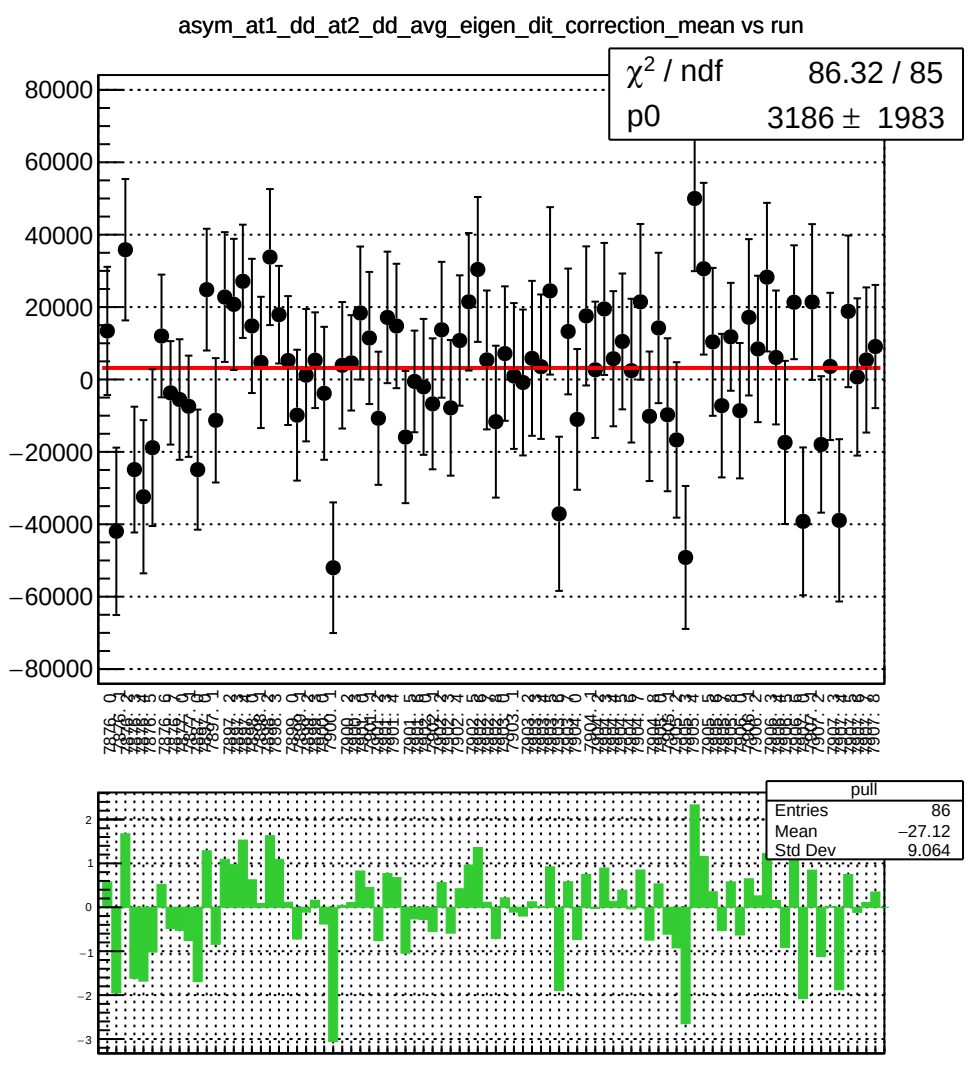

pull1D
Entries 86
Mean −0.01428
Std Dev 1.002

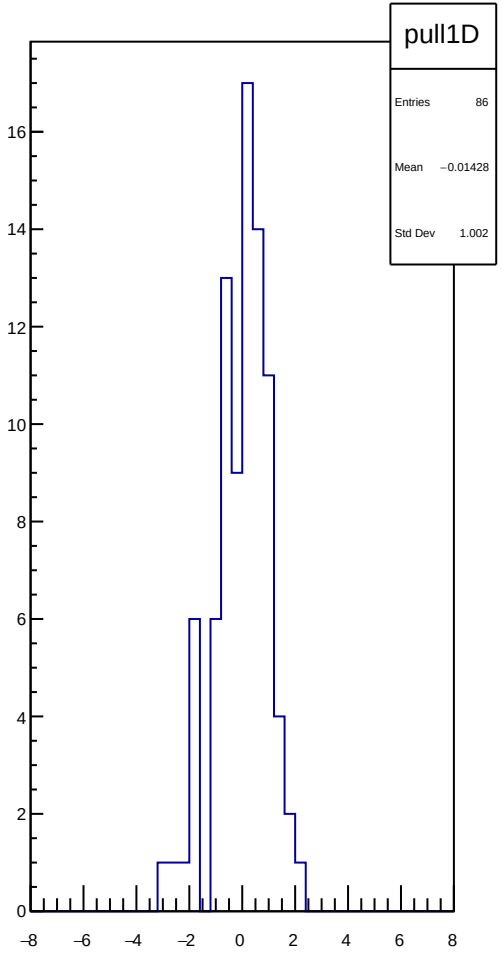

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.118e+04 / 85
p0 1816 ± 1.402
2300
2200
2100
2000
1900
1800
1700
1600
1500

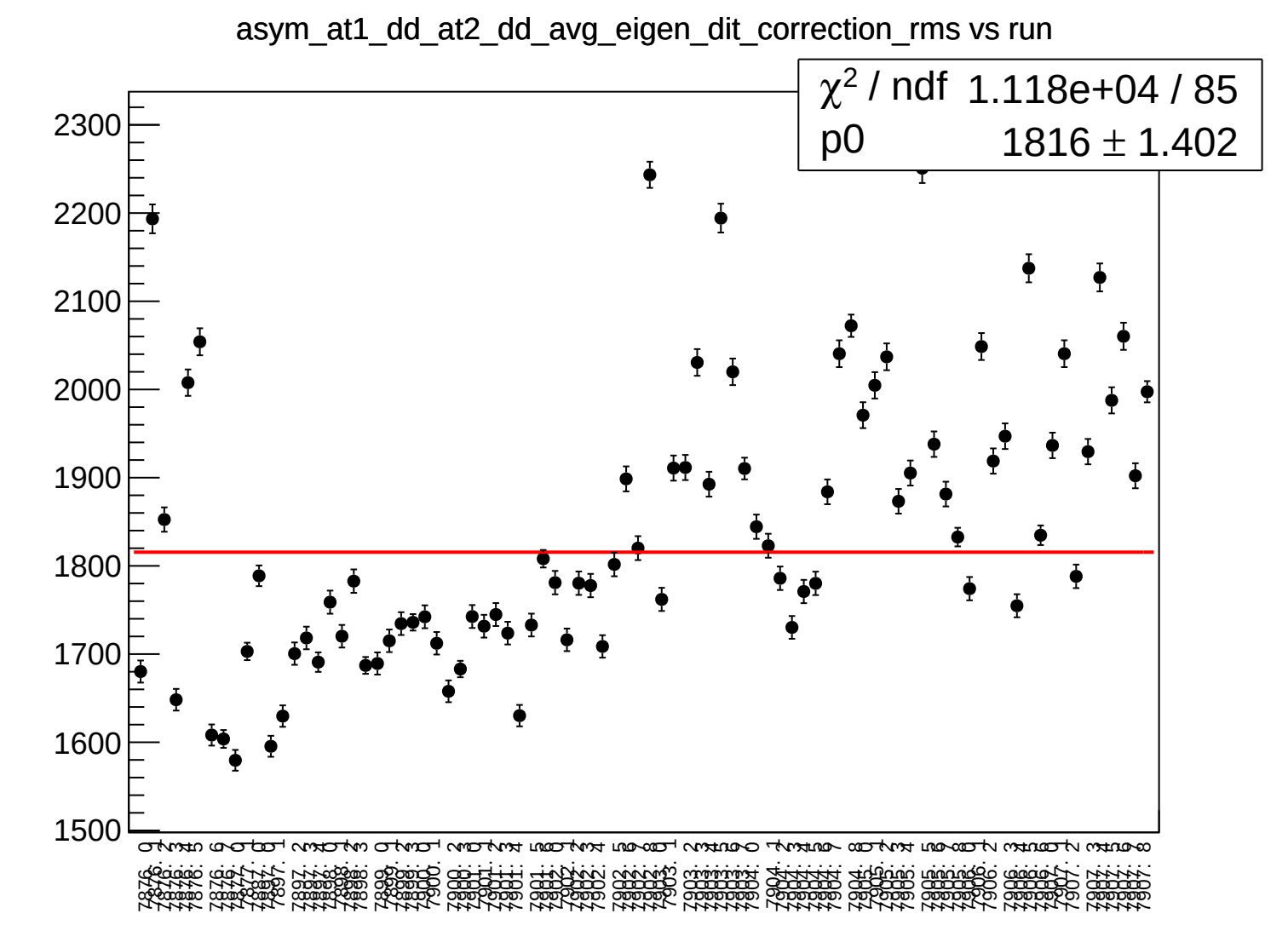

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 90.22 / 85
p0 645.9 ± 1396
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1397
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

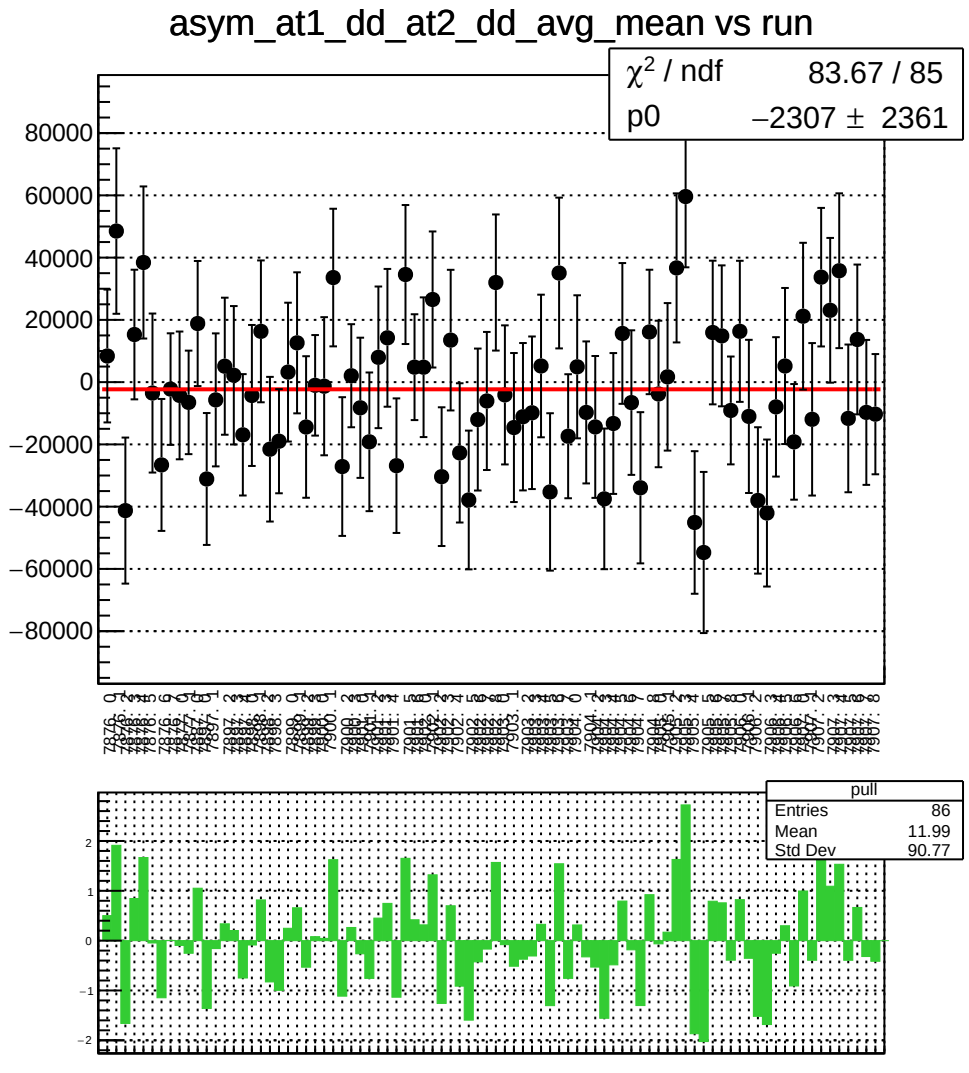

pull1D
Entries 86
Mean −0.0008038
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

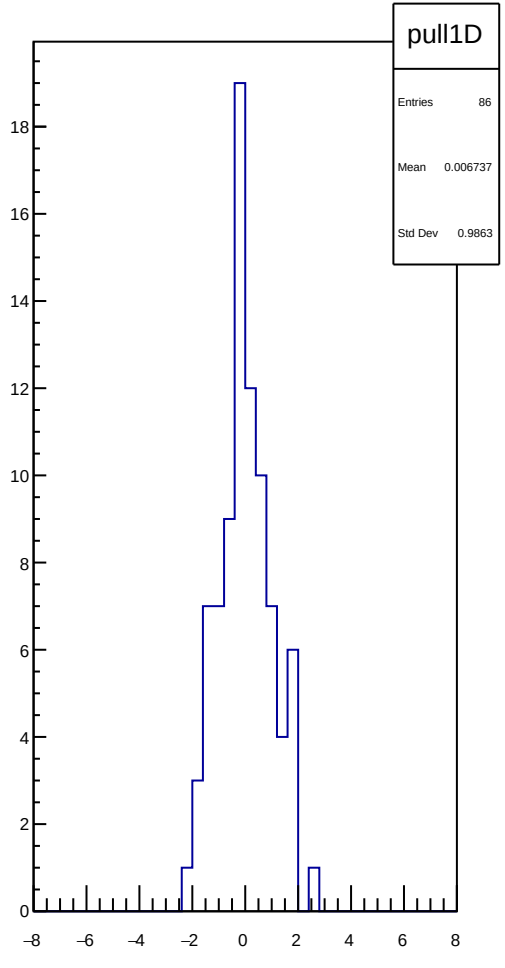

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1129 / 85
p0 1282 ± 0.9869
1400
1350
1300
1250
1200

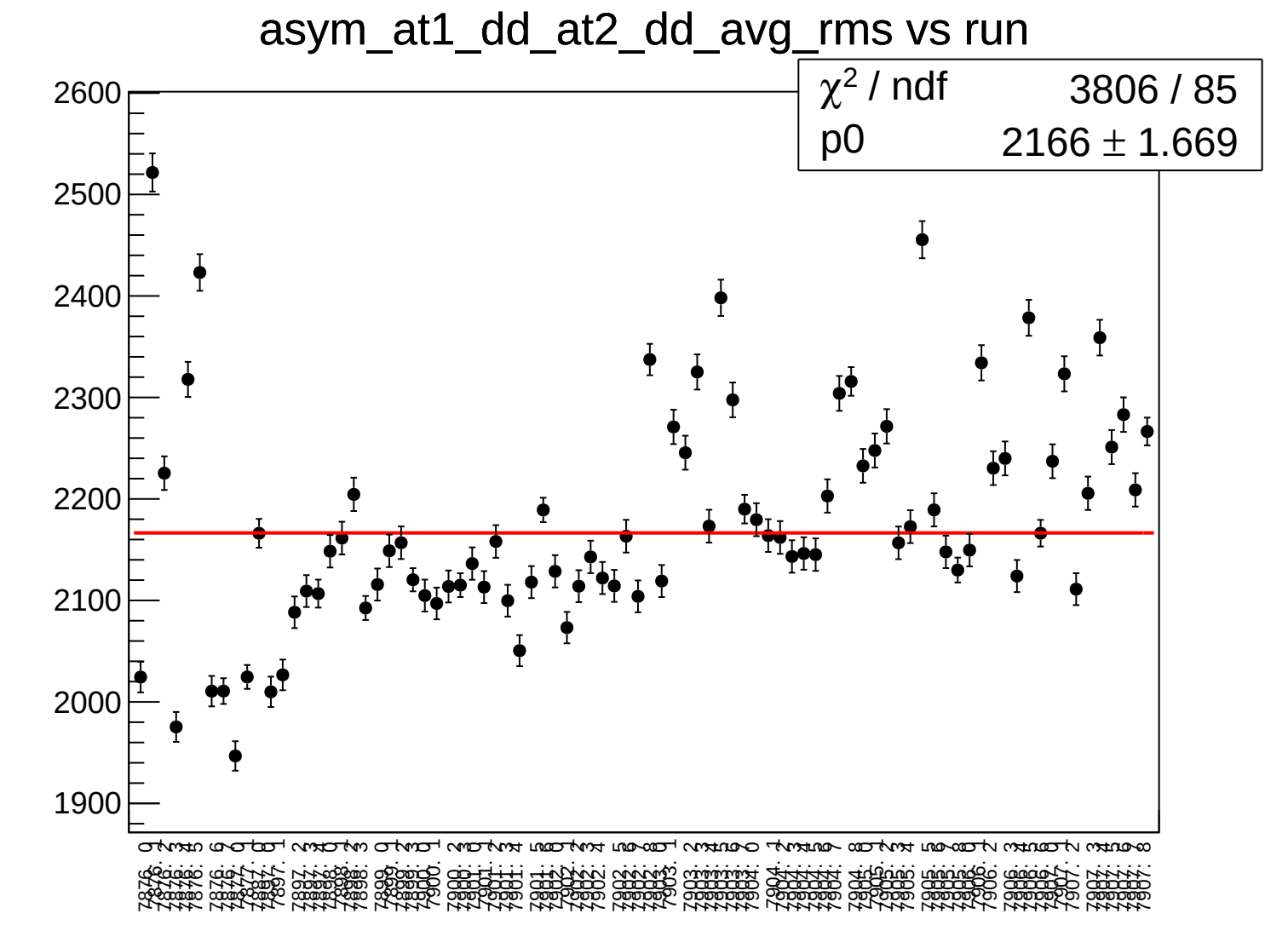

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.32 / 85
p0 3186 ± 1983
pull
Entries 86
Mean −27.12
Std Dev 9.064

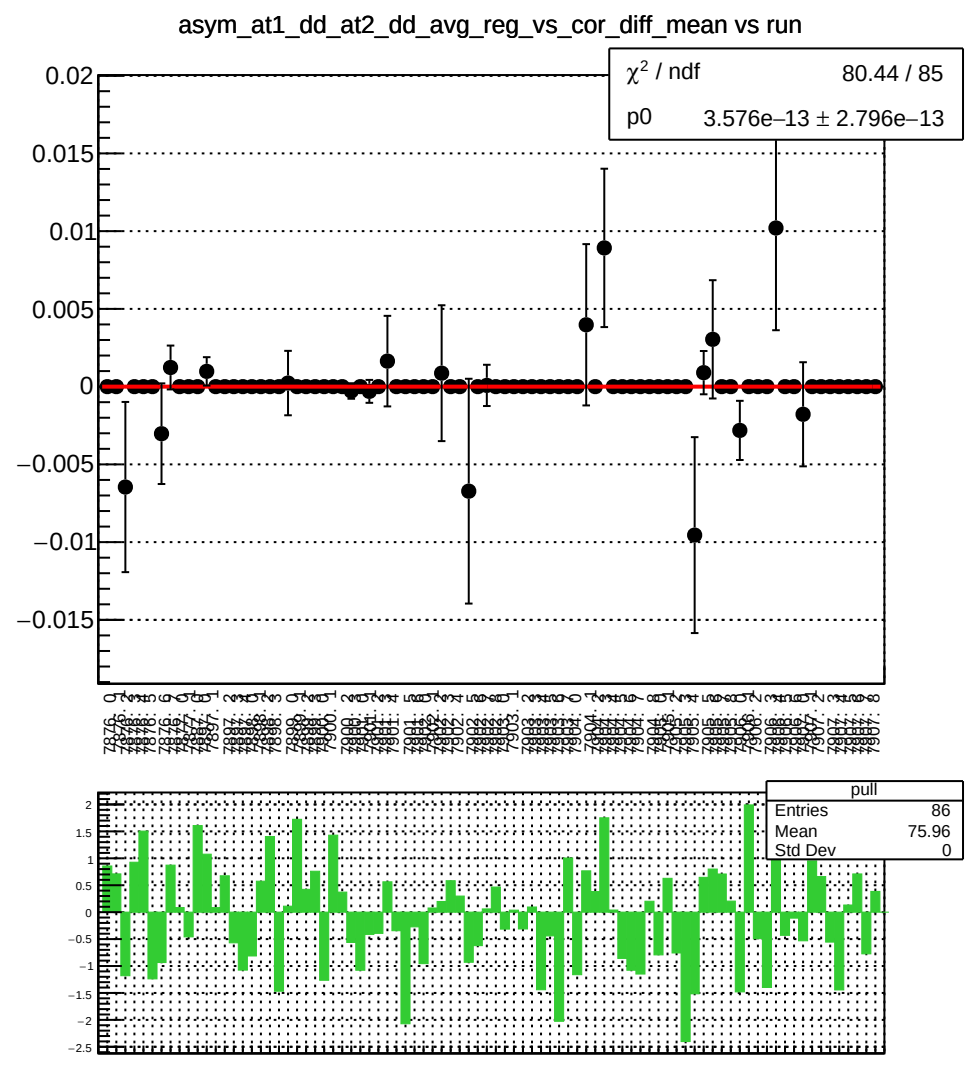

pull1D
Entries 86
Mean −0.01428
Std Dev 1.002

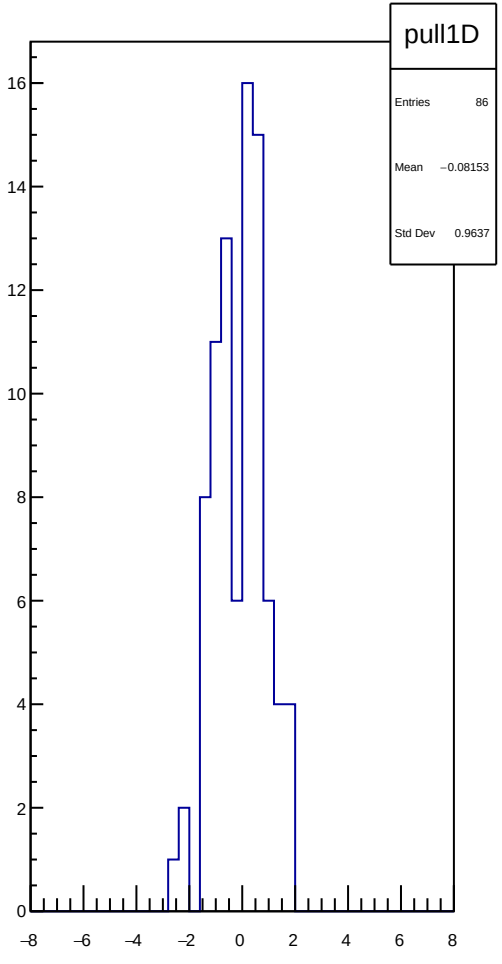

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.118e+04 / 85
p0 1816 ± 1.402
2300
2200
2100
2000
1900
1800
1700
1600
1500

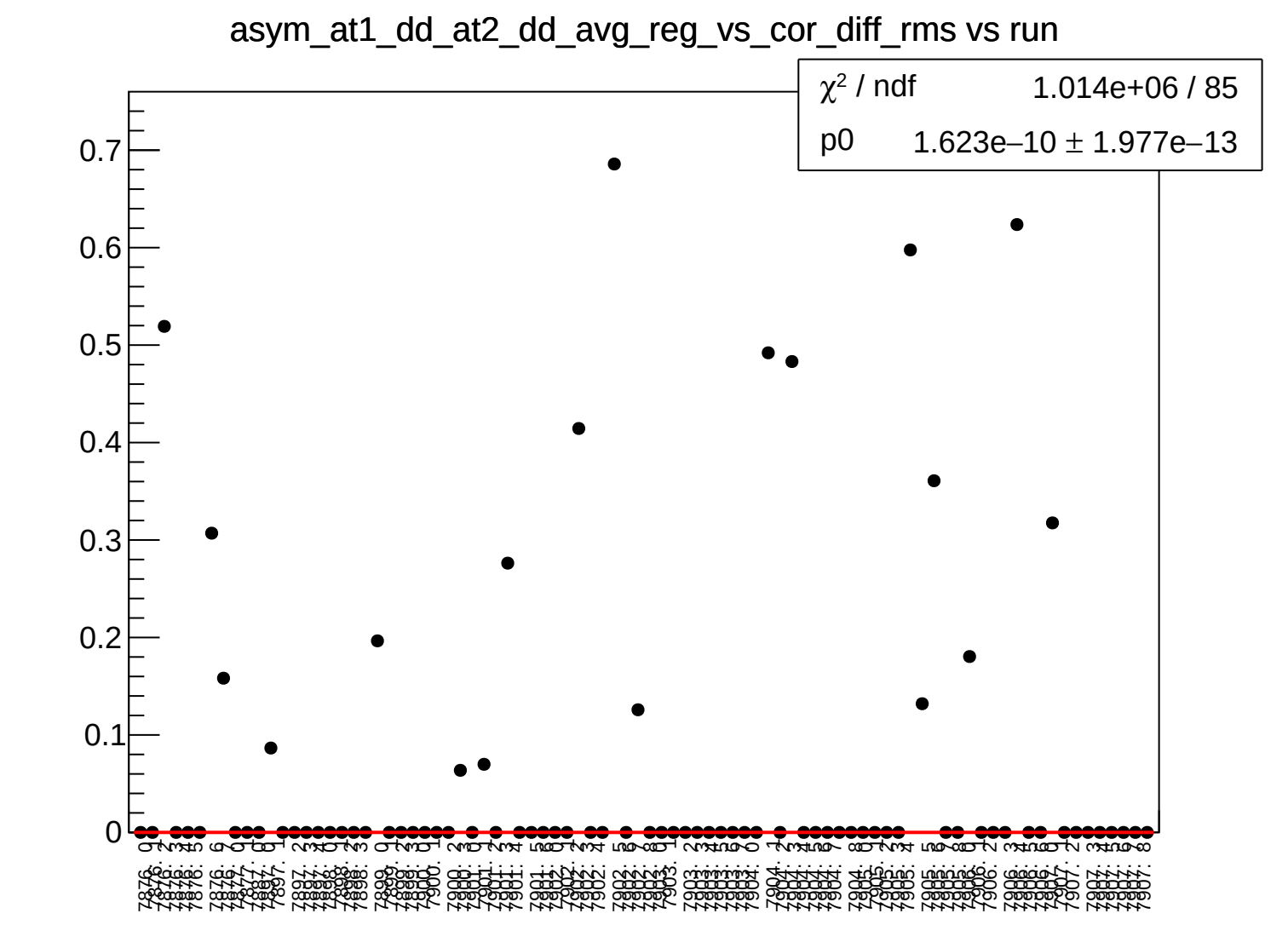

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 83.67 / 85
p0 −2307 ± 2361
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 11.99
Std Dev 90.77
2
1
0
−1
−2

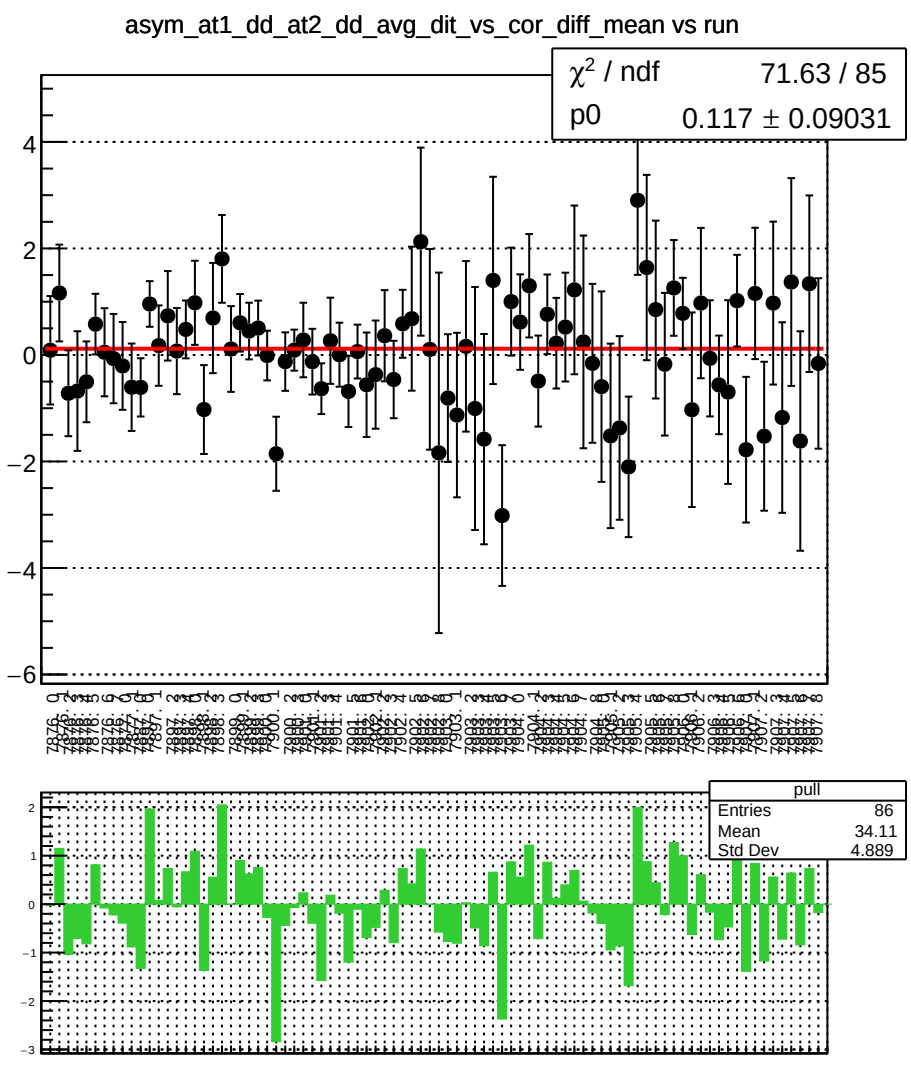

pull1D
Entries 86
Mean 0.006737
Std Dev 0.9863
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

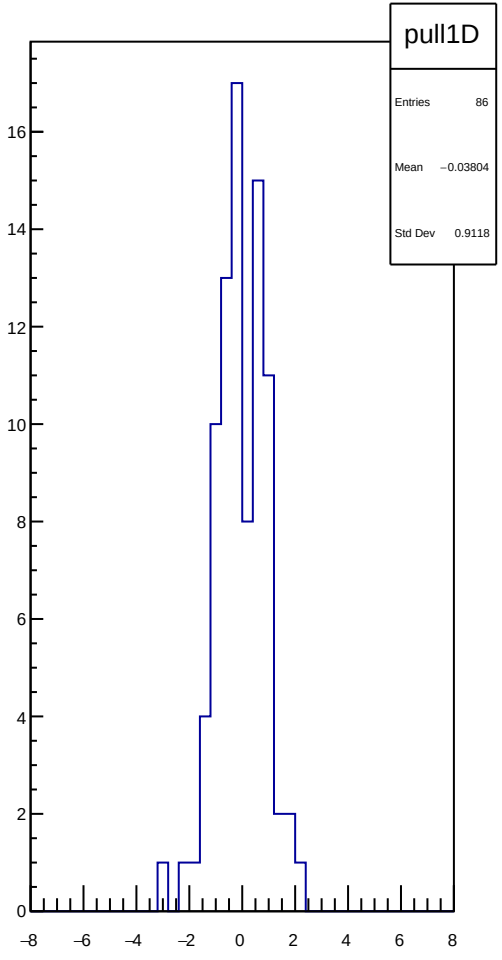

asym_at1_dd_at2_dd_avg_rms vs run
χ^2 / ndf 3806 / 85
p0 2166 ± 1.669
2600
2500
2400
2300
2200
2100
2000
1900

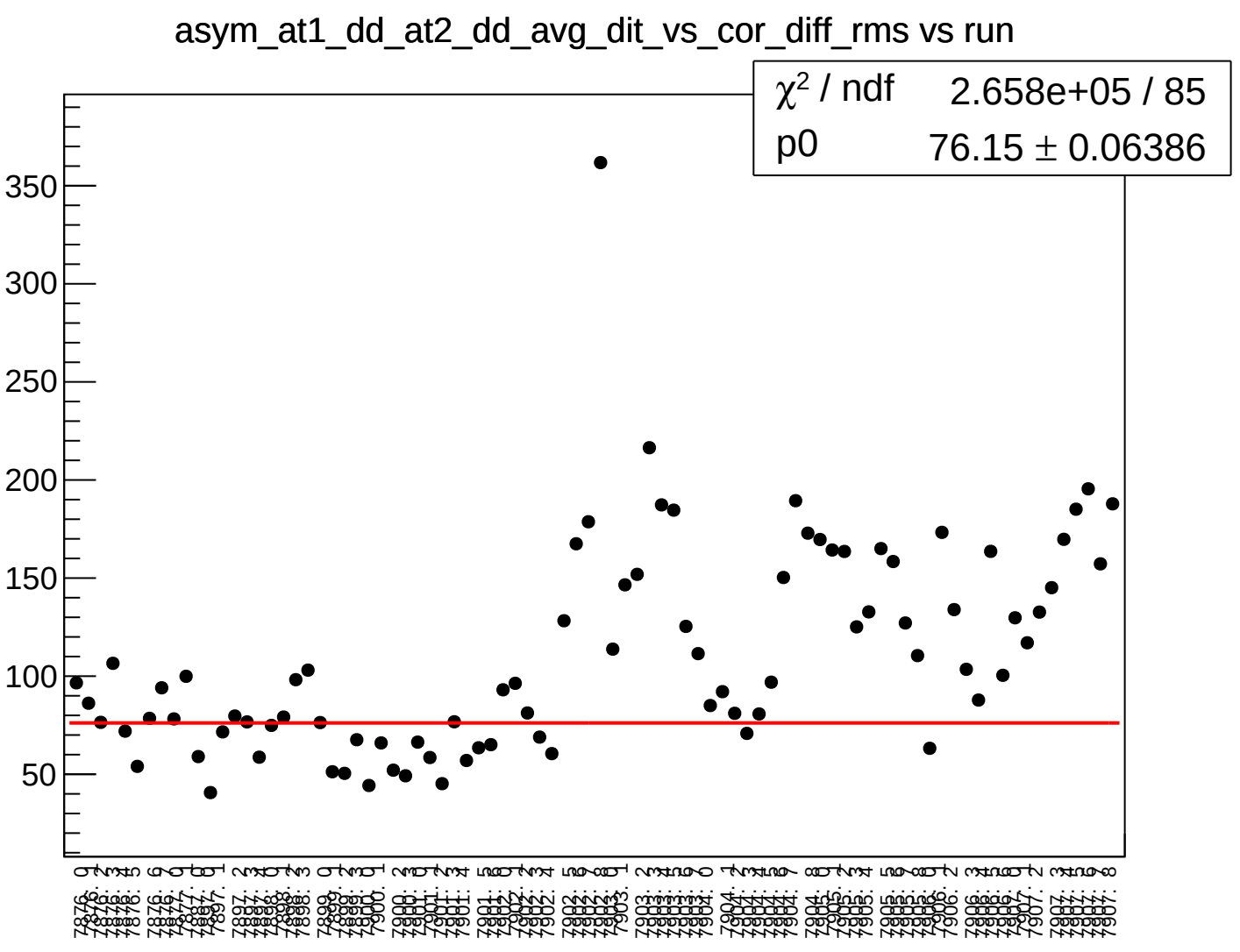

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.44 / 85
p0 3.576e−13 ± 2.796e−13
pull
Entries 86
Mean 75.96
Std Dev 0

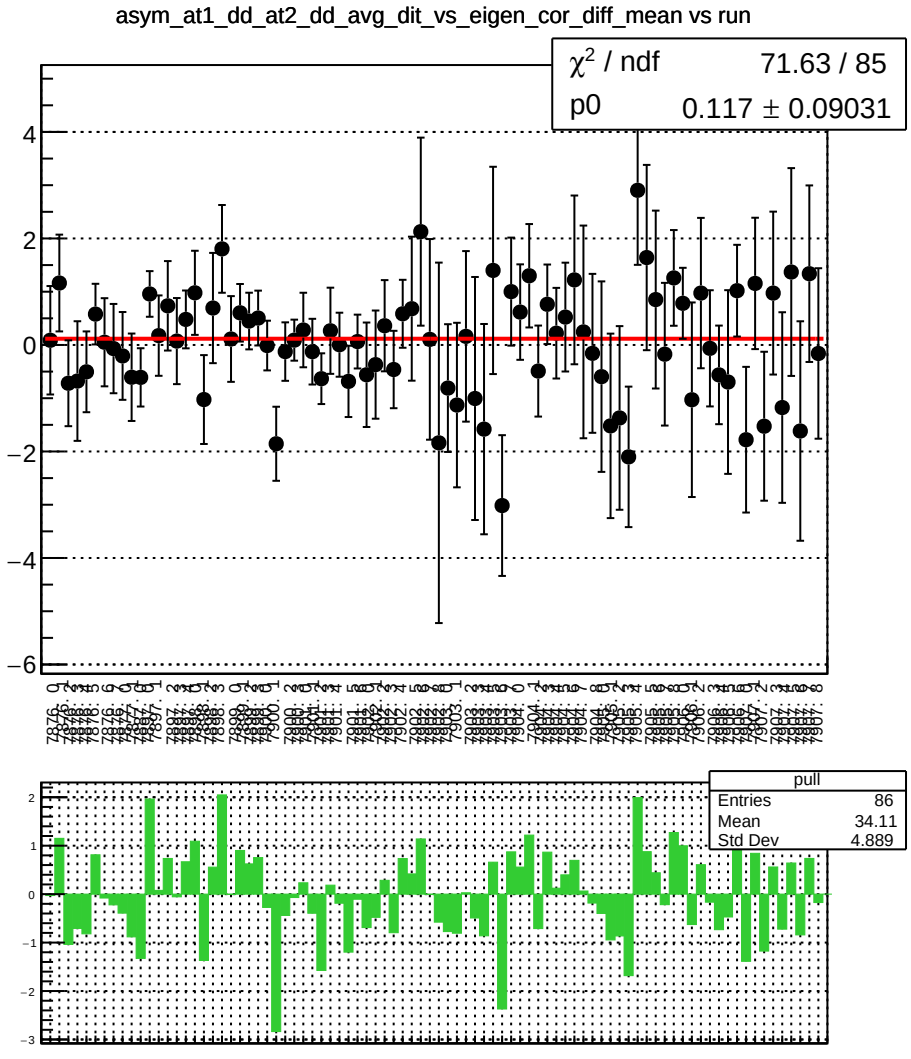

pull1D
Entries 86
Mean −0.08153
Std Dev 0.9637

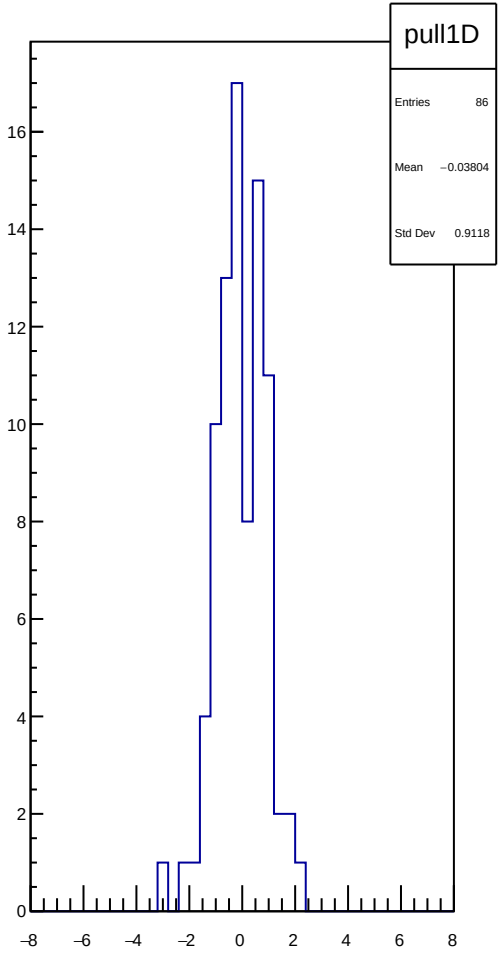

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 85
p0 1.623e−10 ± 1.977e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

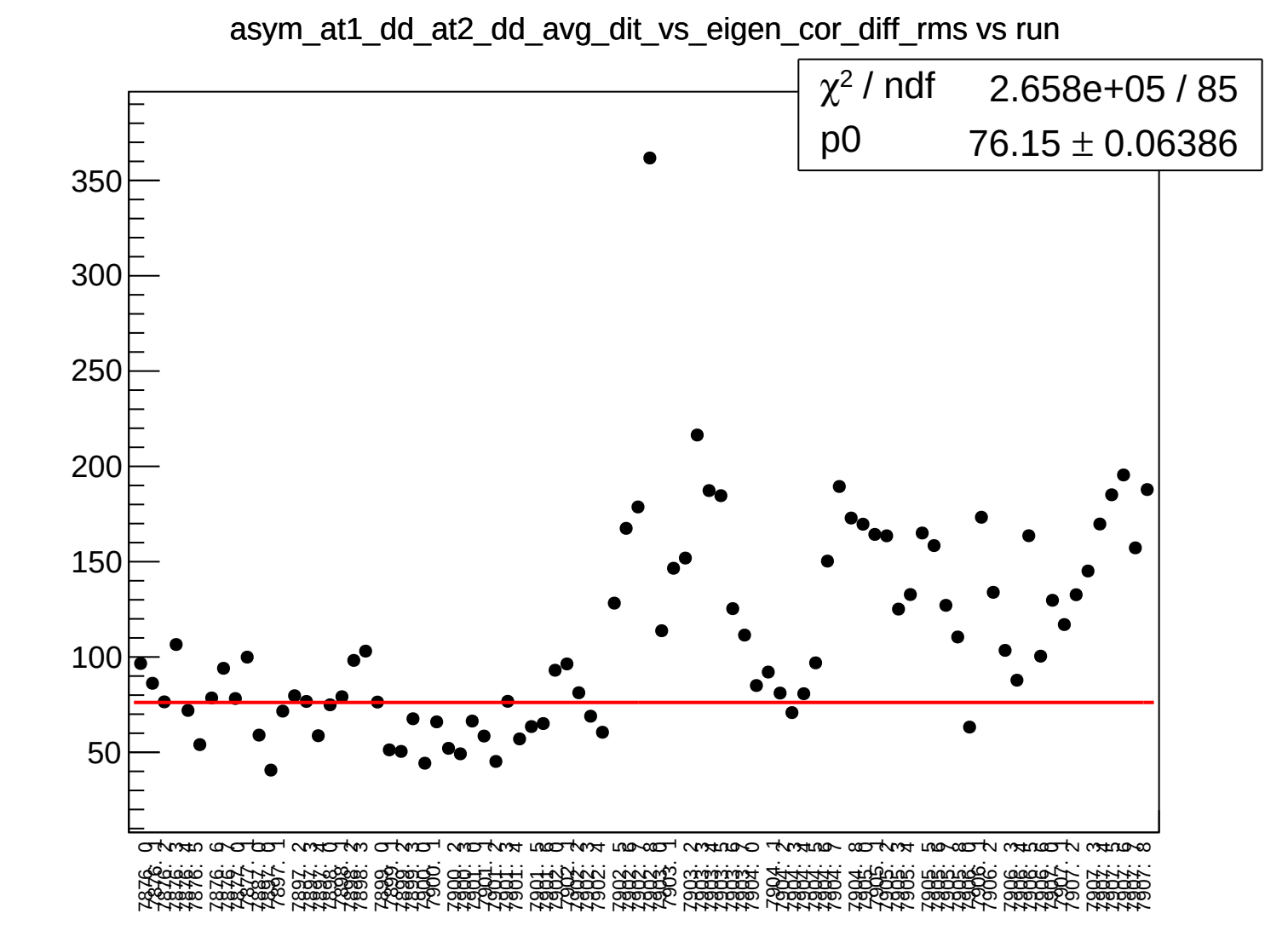

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.63 / 85
p0 0.117 ± 0.09031
pull
Entries 86
Mean 34.11
Std Dev 4.889

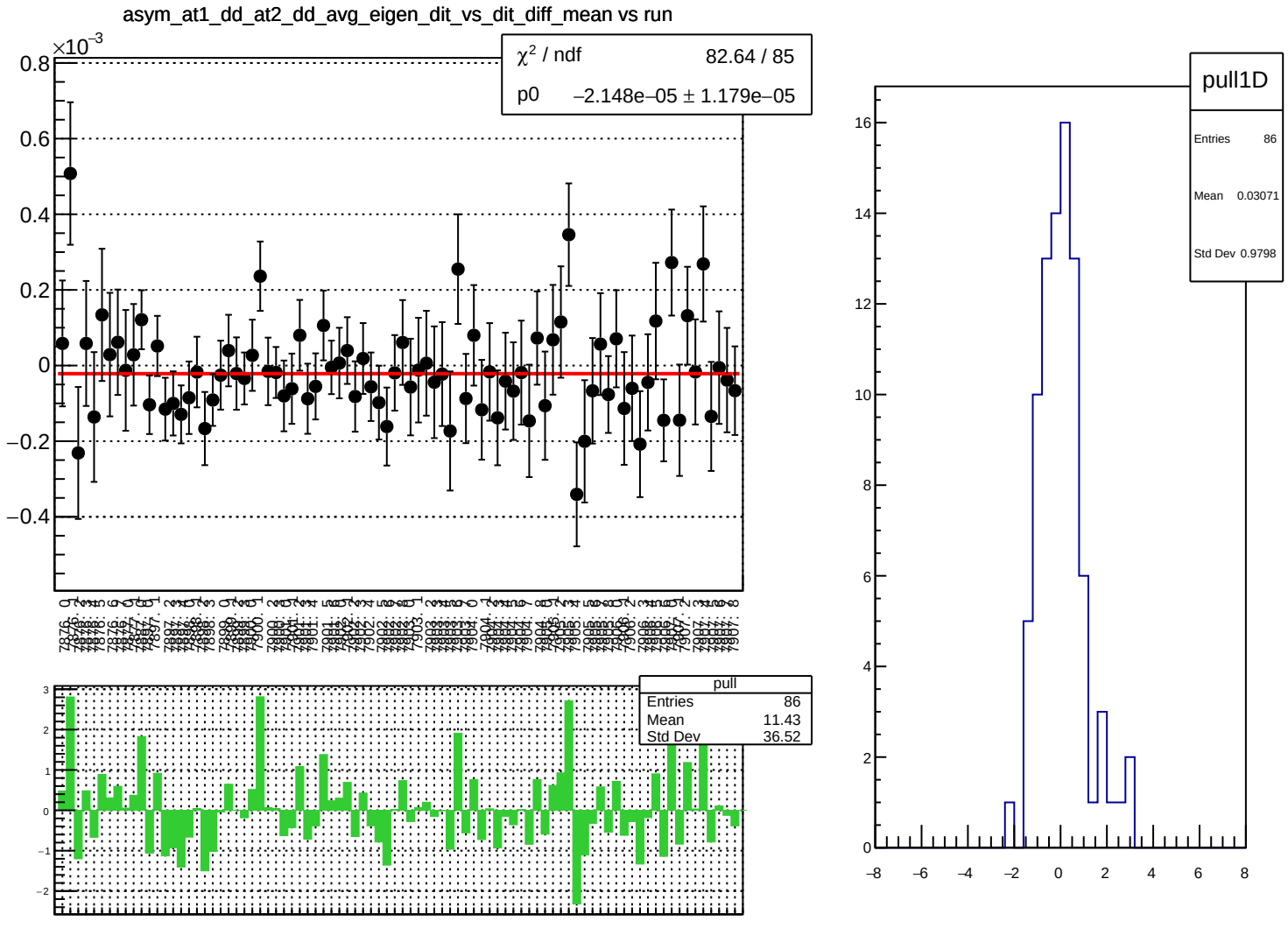

pull1D
Entries 86
Mean −0.03804
Std Dev 0.9118

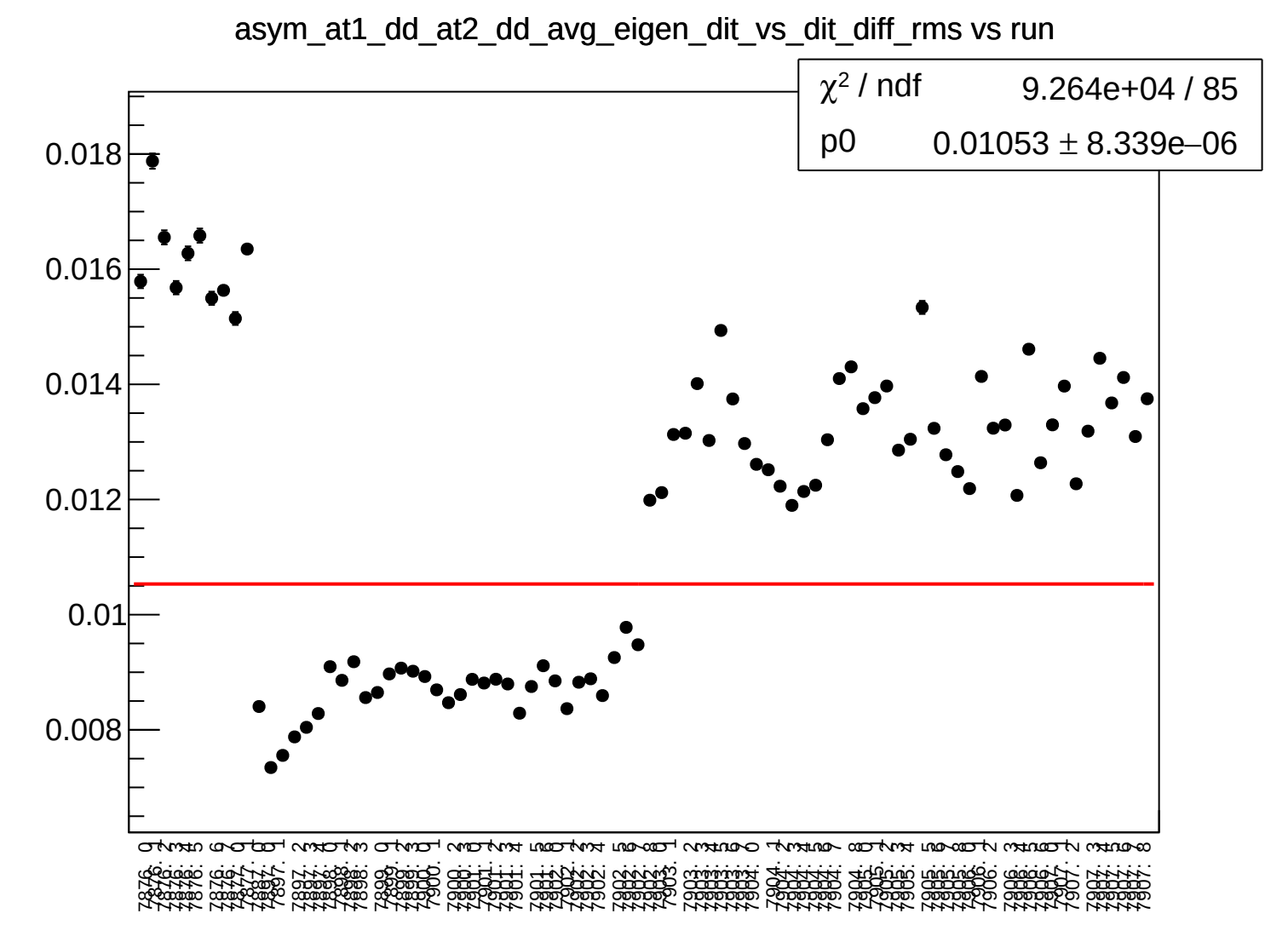

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.658e+05 / 85
p0 76.15 ± 0.06386
350
300
250
200
150
100
50

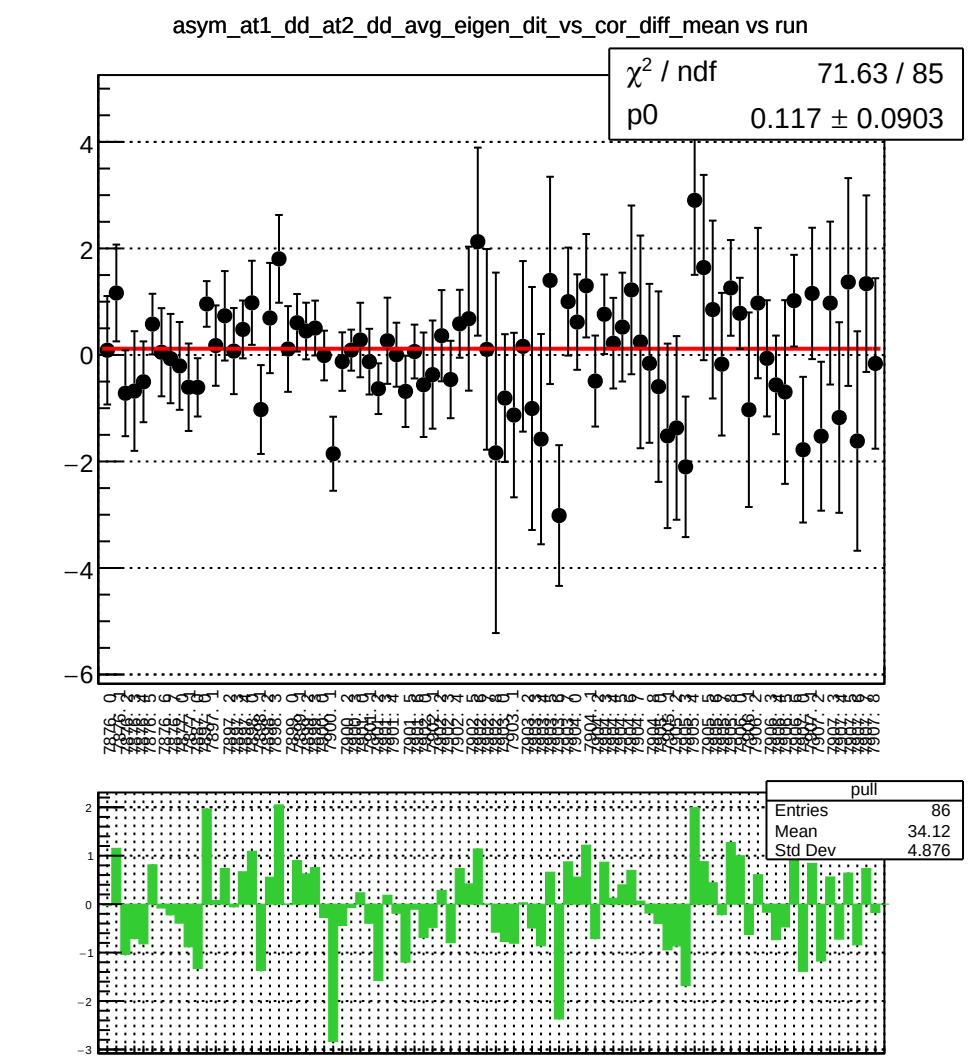

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.63 / 85
p0 0.117 ± 0.09031
pull
Entries 86
Mean 34.11
Std Dev 4.889

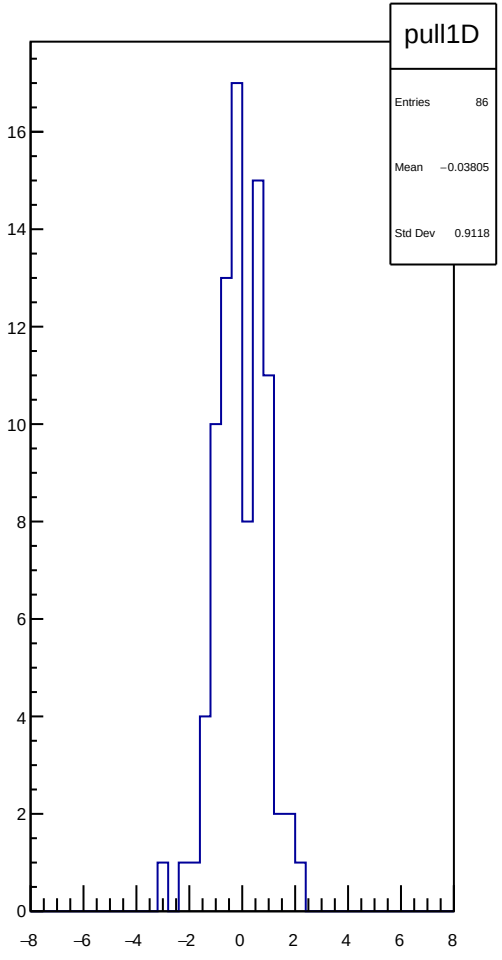

pull1D
Entries 86
Mean −0.03804
Std Dev 0.9118

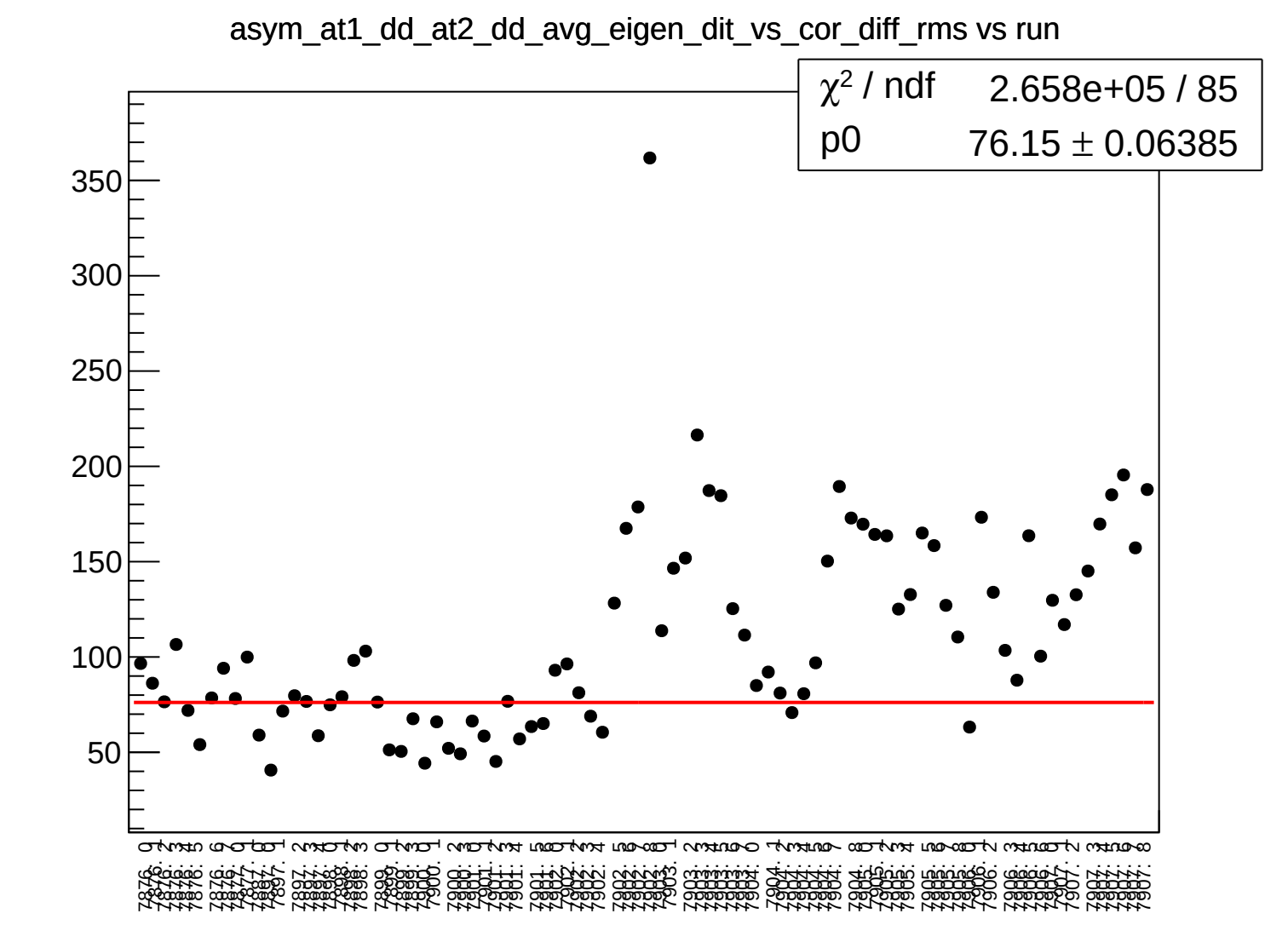

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.658e+05 / 85
p0 76.15 ± 0.06386
350
300
250
200
150
100
50

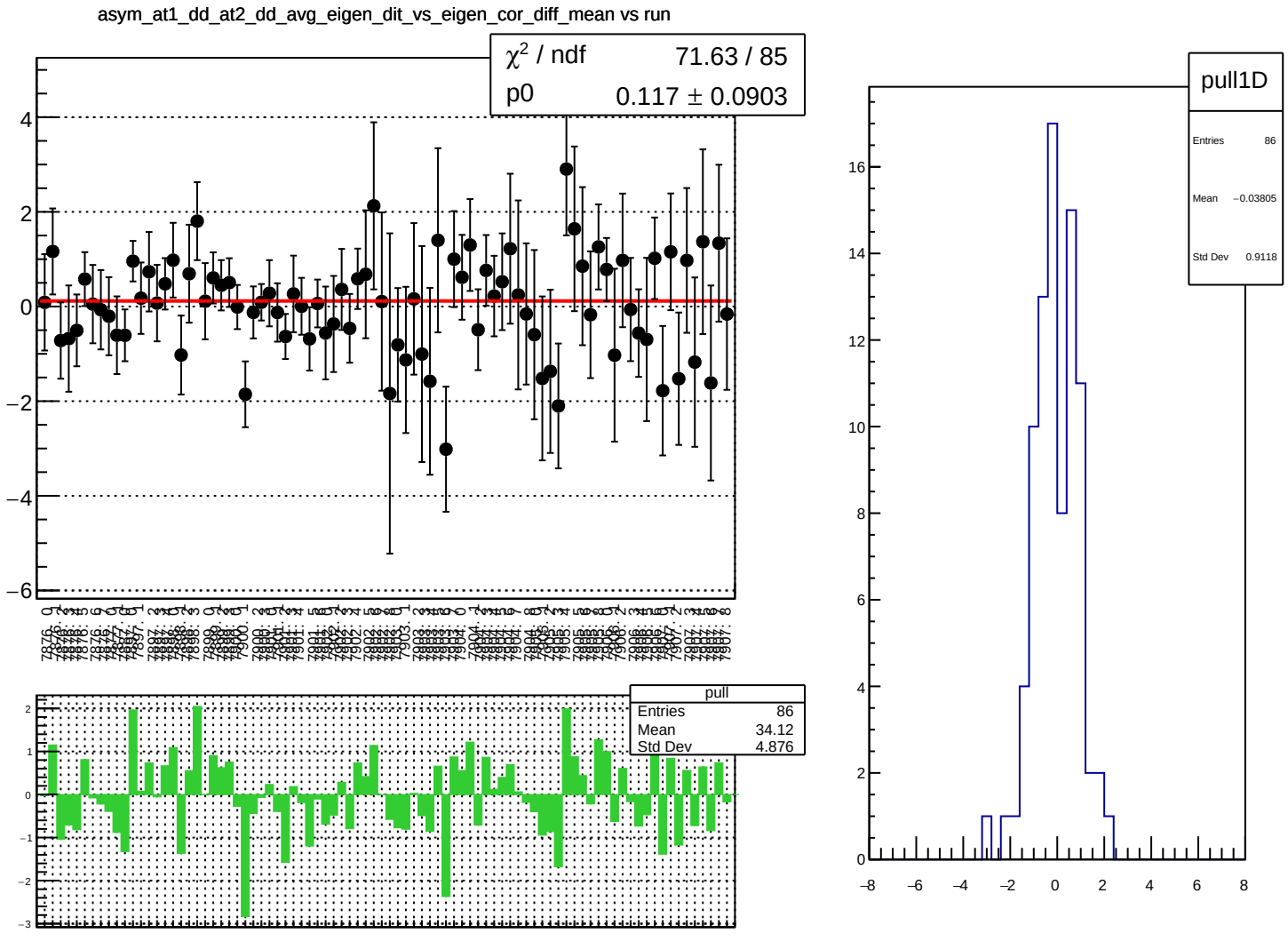

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.64 / 85
p0 −2.148e−05 ± 1.179e−05
pull
Entries 86
Mean 11.43
Std Dev 36.52
pull1D
Entries 86
Mean 0.03071
Std Dev 0.9798

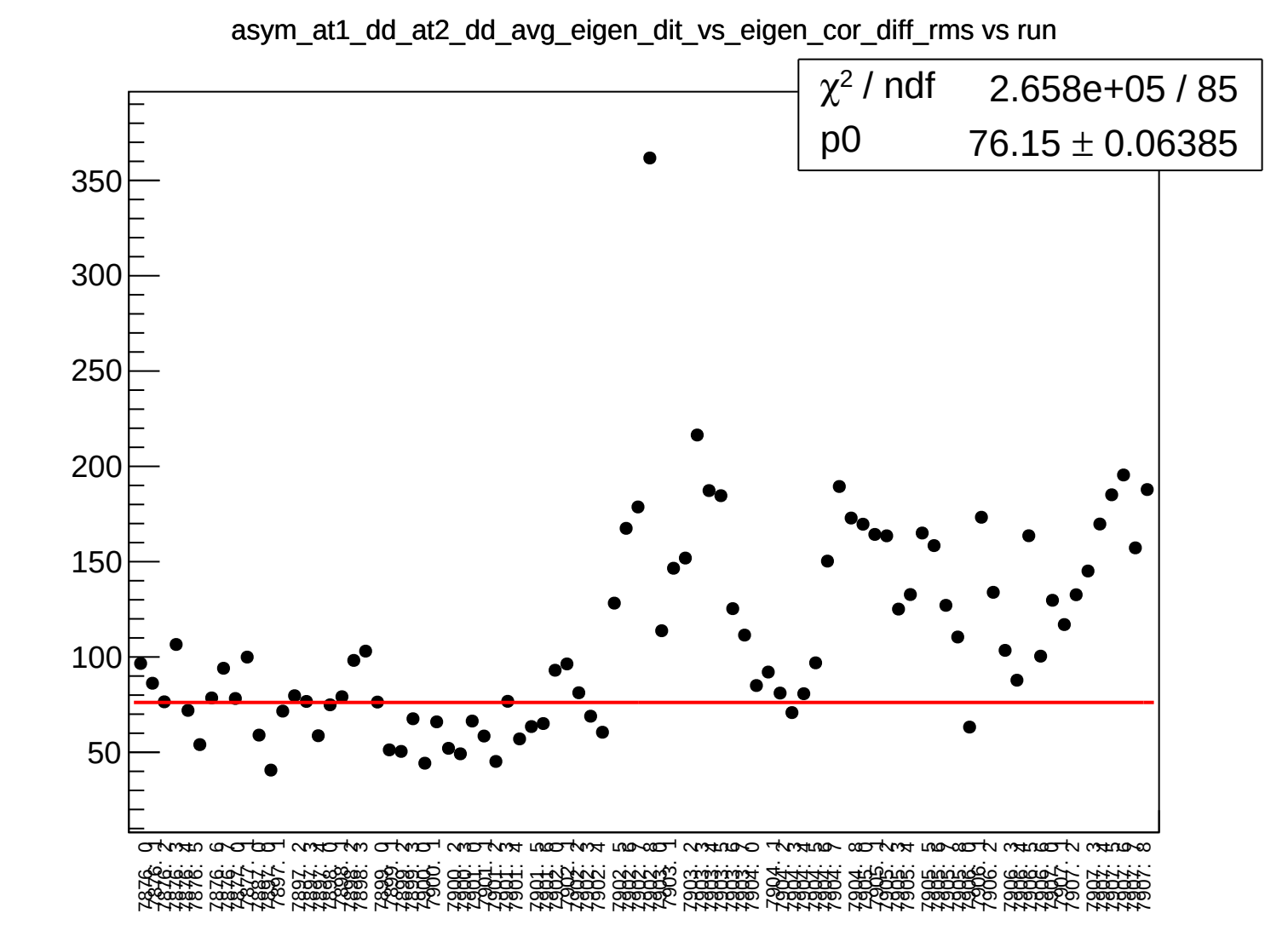

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.264e+04 / 85
p0 0.01053 ± 8.339e–06
0.018
0.016
0.014
0.012
0.01
0.008

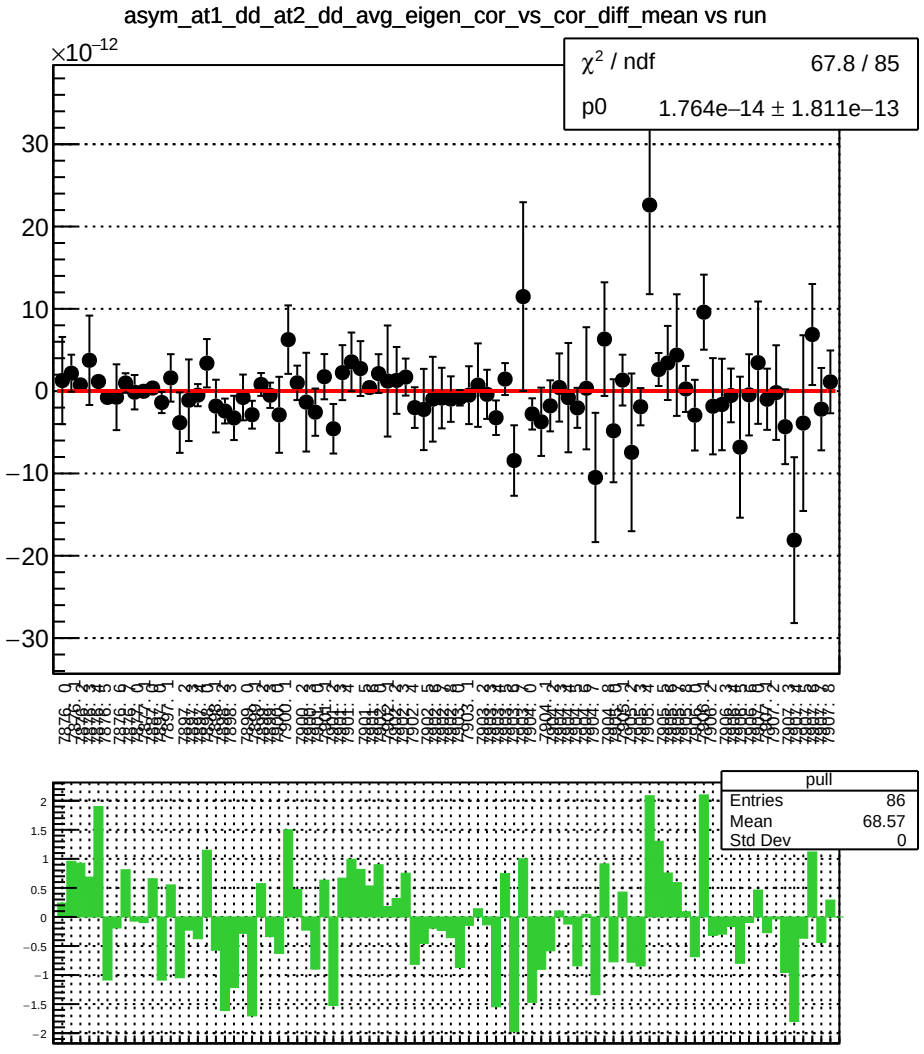

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.63 / 85
p0 0.117 ± 0.0903
pull
Entries 86
Mean 34.12
Std Dev 4.876

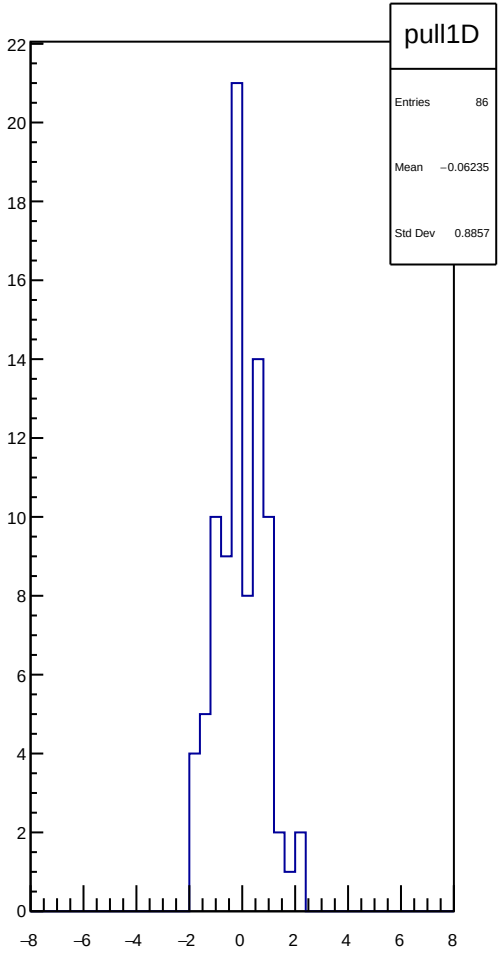

pull1D
Entries 86
Mean −0.03805
Std Dev 0.9118

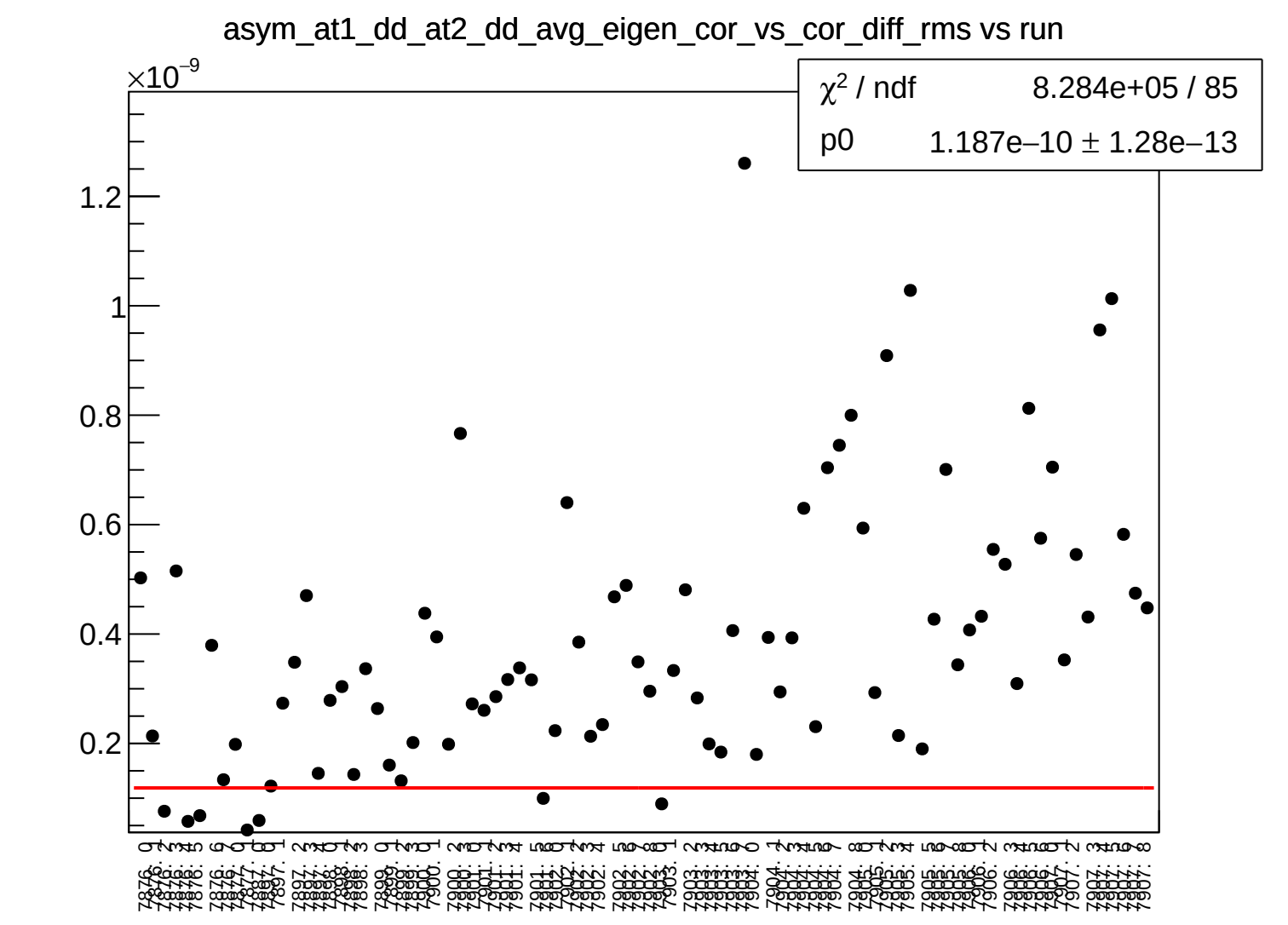

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.658e+05 / 85
p0 76.15 ± 0.06385
350
300
250
200
150
100
50

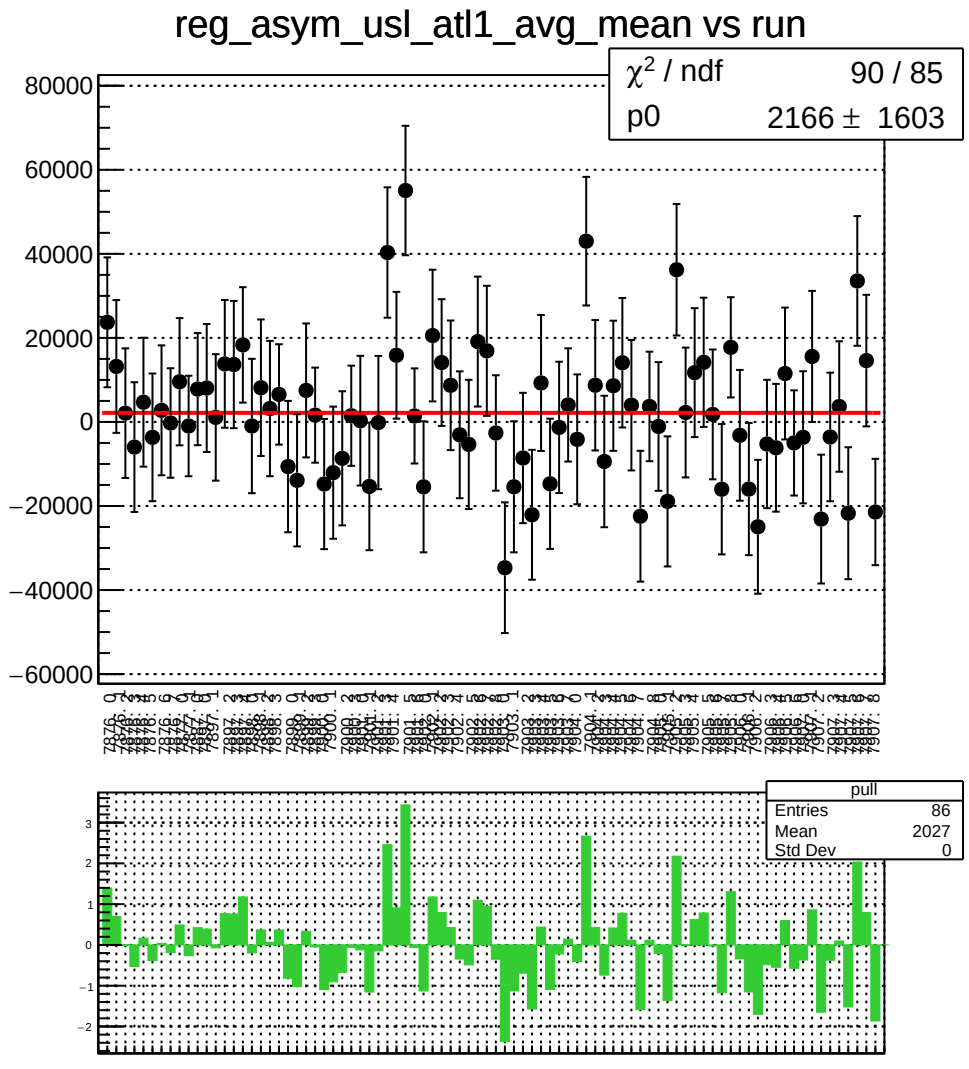

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.63 / 85
p0 0.117 ± 0.0903
pull
Entries 86
Mean 34.12
Std Dev 4.876
pull1D
Entries 86
Mean −0.03805
Std Dev 0.9118

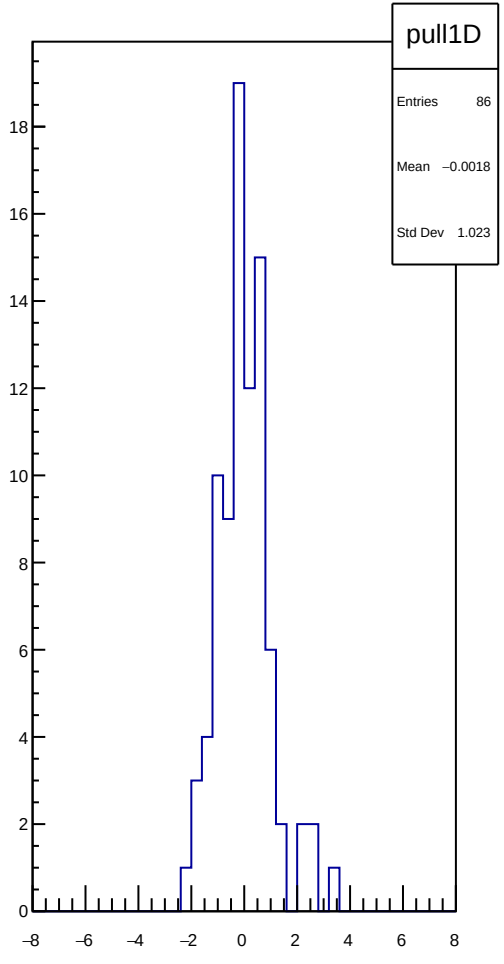

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.658e+05 / 85
p0 76.15 ± 0.06385
350
300
250
200
150
100
50

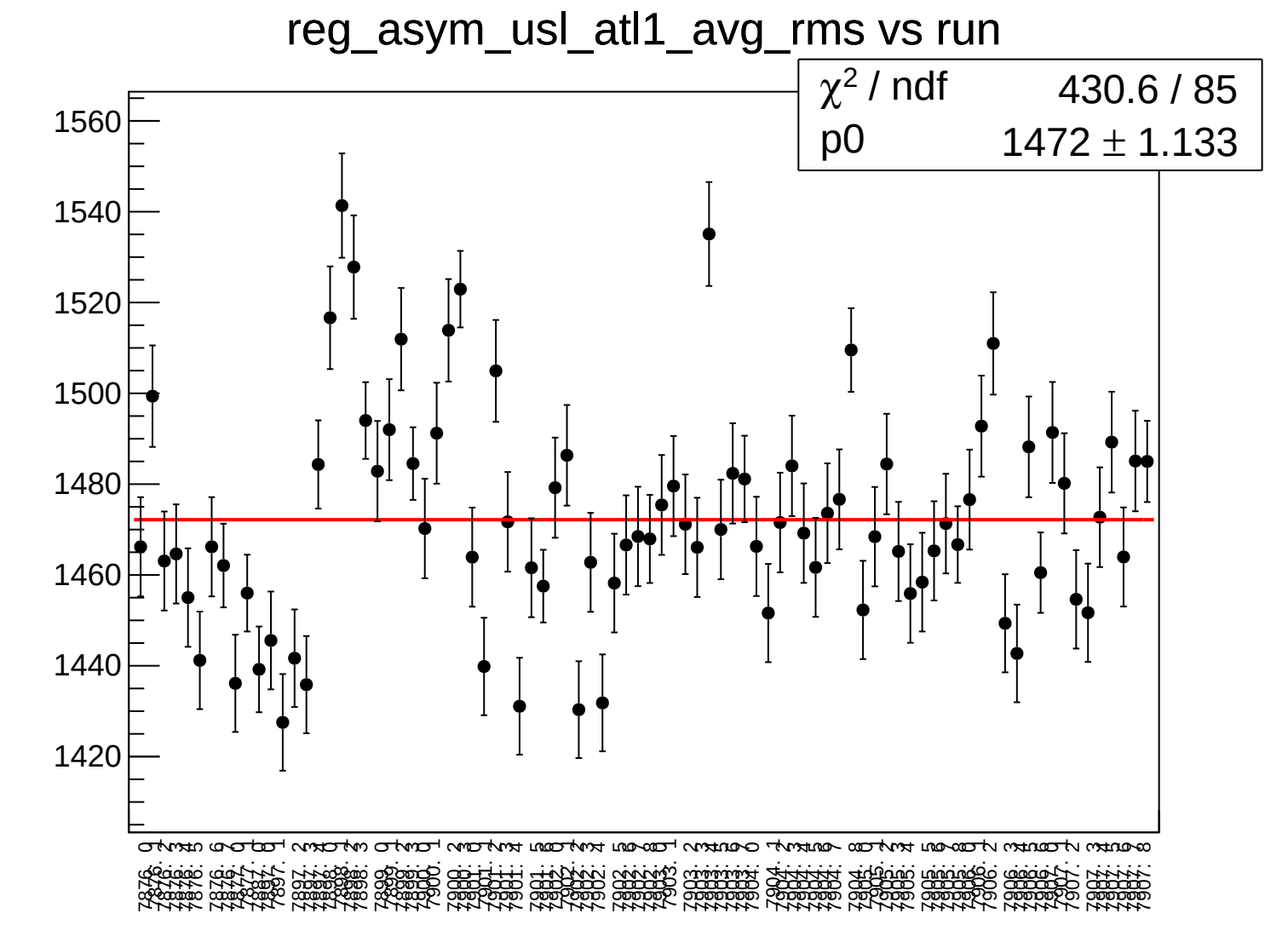

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.8 / 85
p0 1.764e−14 ± 1.811e−13
pull
Entries 86
Mean 68.57
Std Dev 0

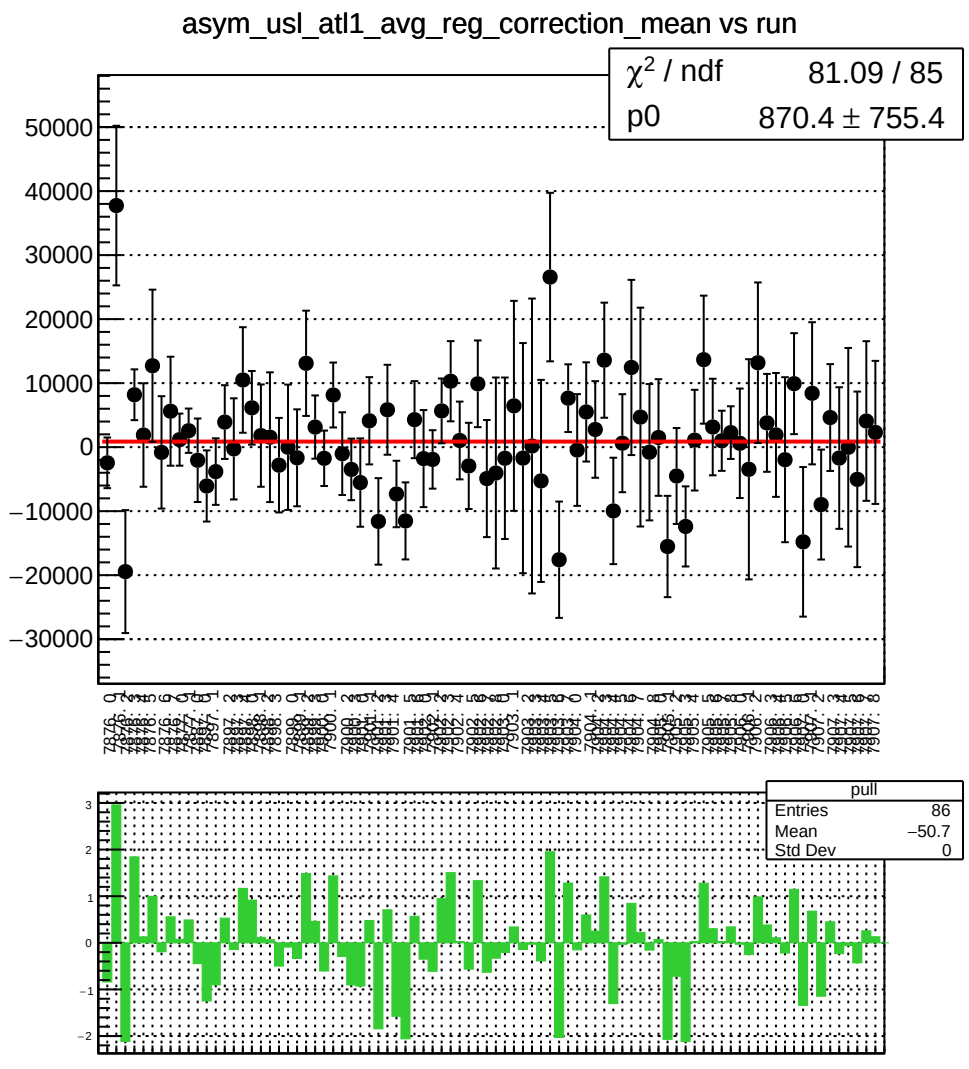

pull1D
Entries 86
Mean −0.06235
Std Dev 0.8857

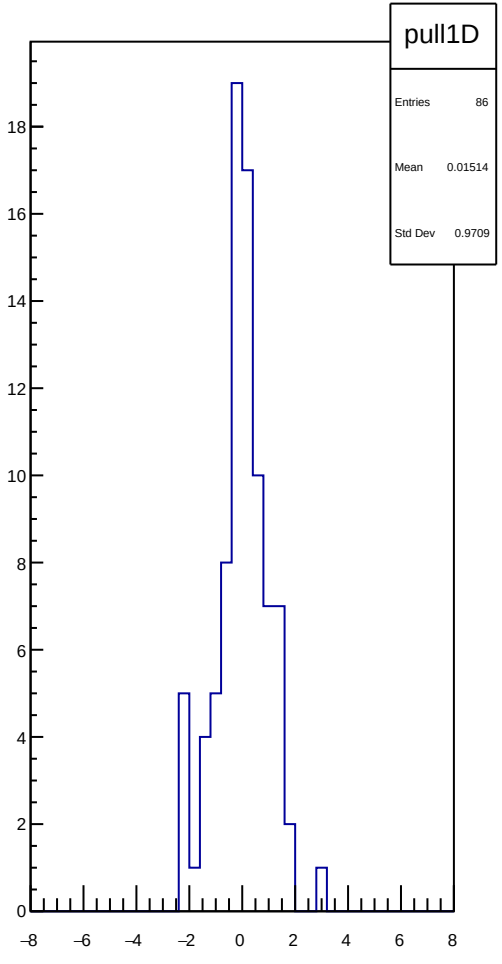

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.284e+05 / 85
p0 1.187e−10 ± 1.28e−13
1.2
1
0.8
0.6
0.4
0.2

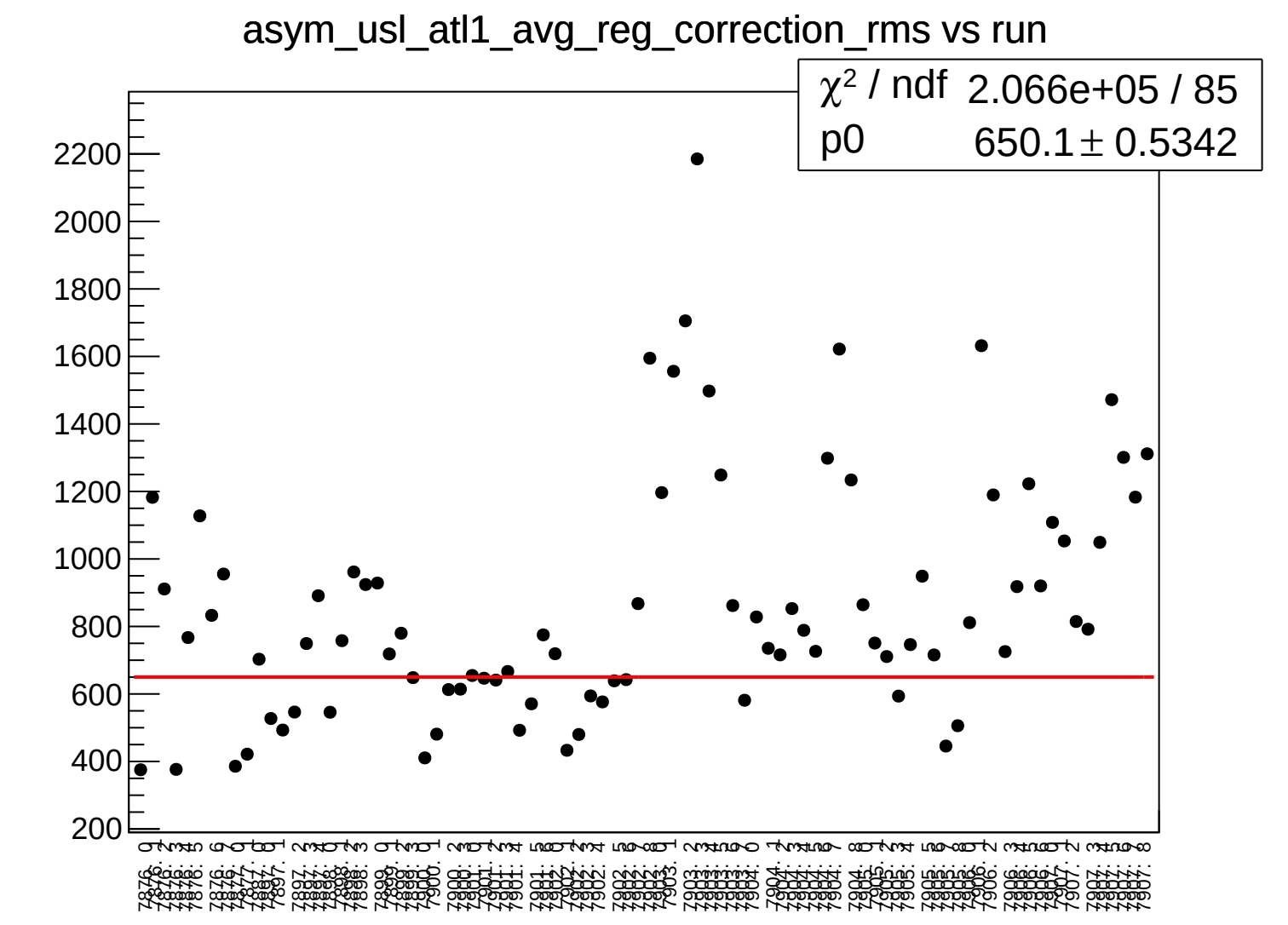

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 90 / 85
p0 2166 ± 1603
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2027
Std Dev 0
3
2
1
0
−1
−2

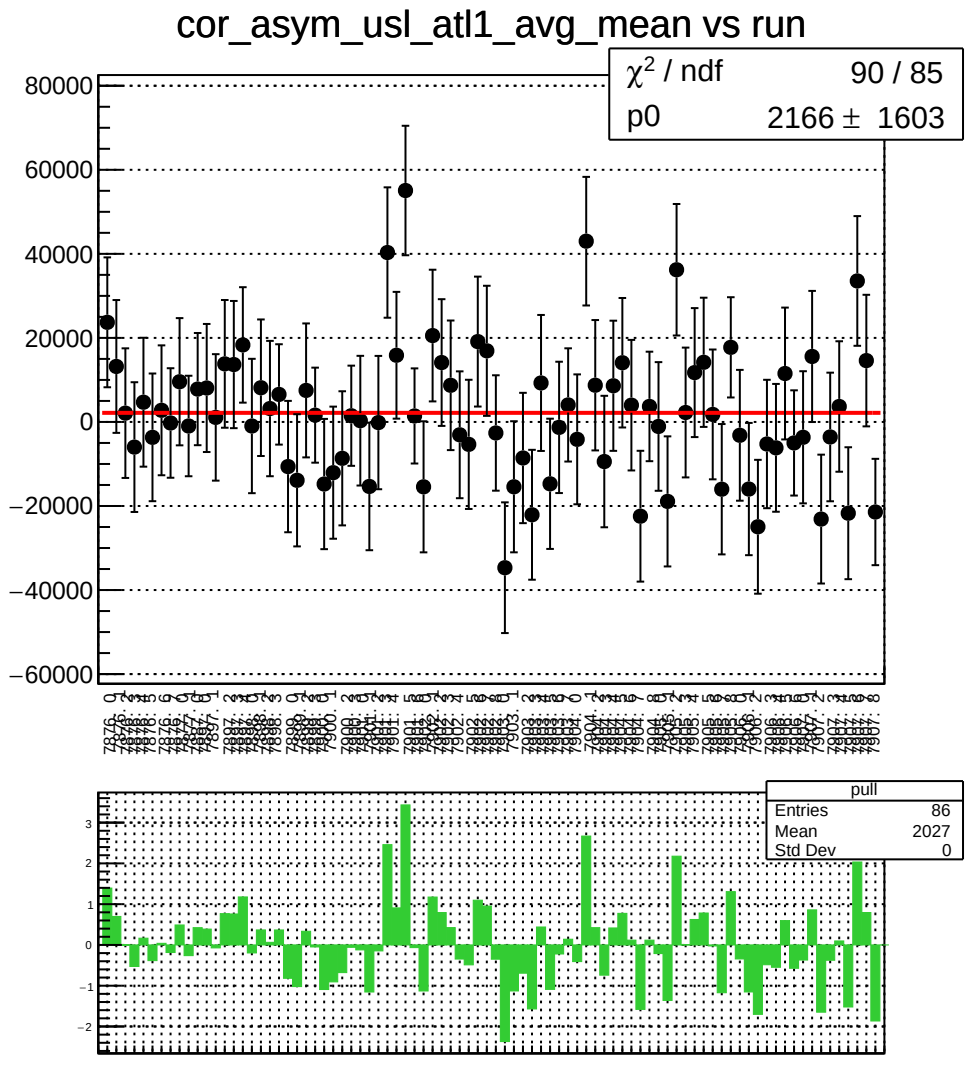

pull1D
Entries 86
Mean −0.0018
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

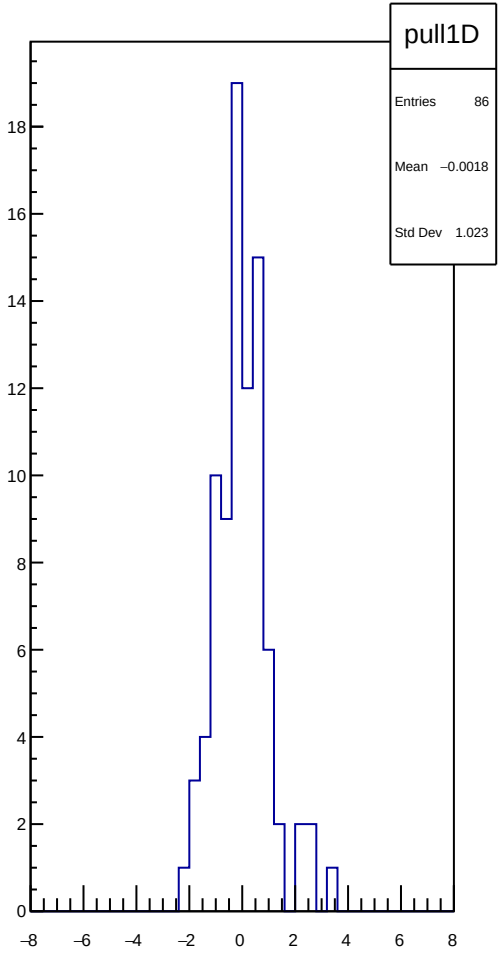

reg_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 430.6 / 85
p0 1472 ± 1.133
1560
1540
1520
1500
1480
1460
1440
1420

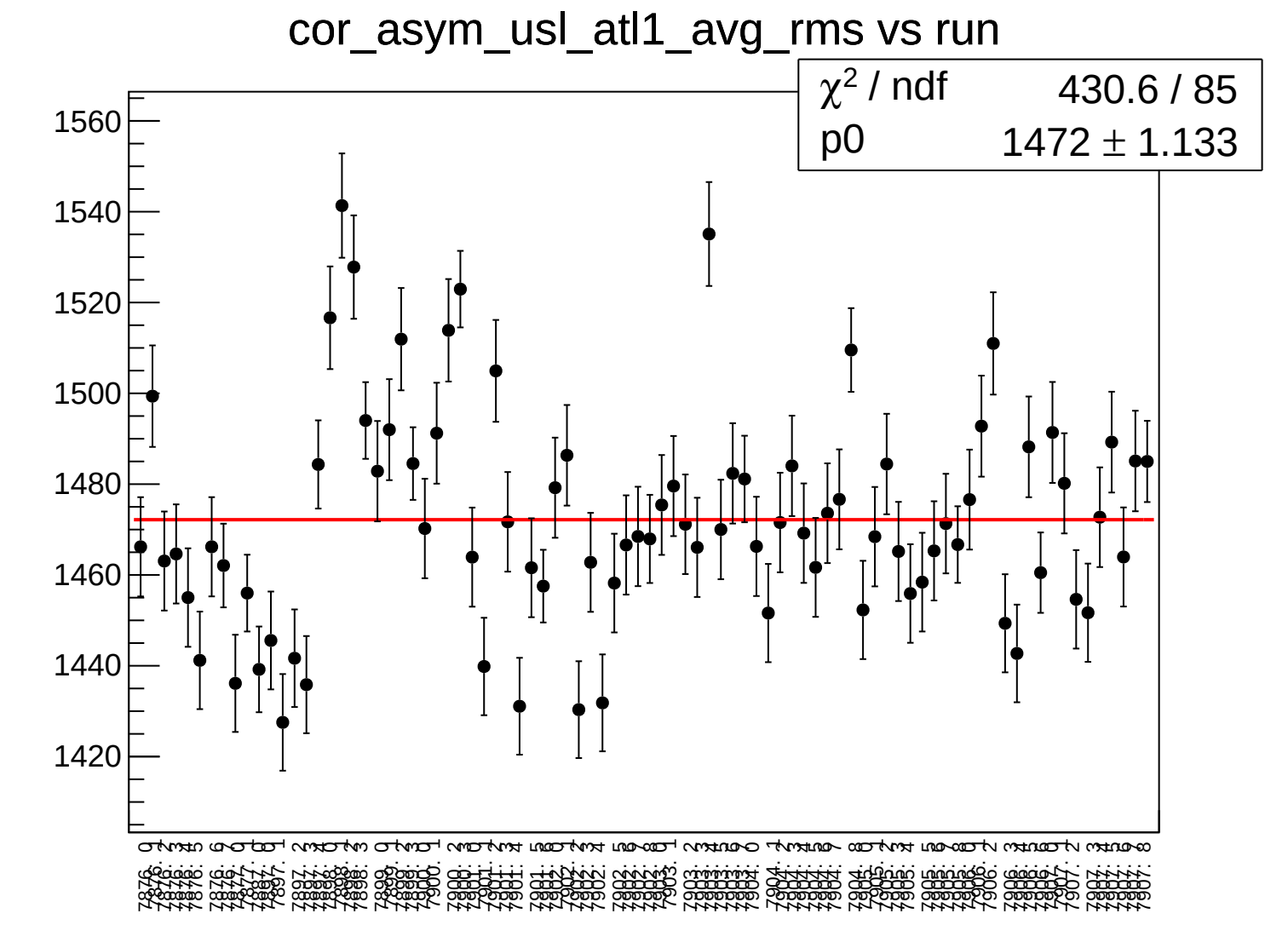

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 81.09 / 85
p0 870.4 ± 755.4
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −50.7
Std Dev 0
3
2
1
0
−1
−2

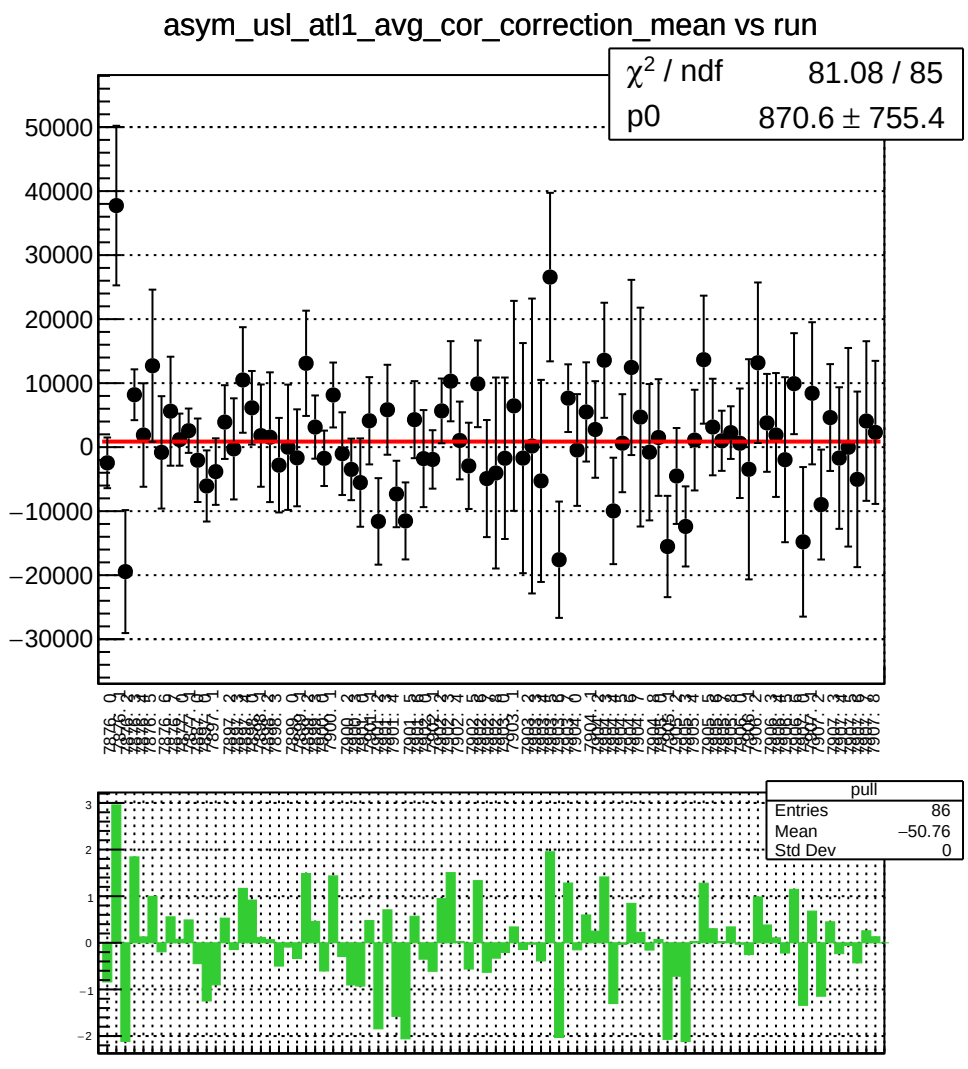

pull1D
Entries 86
Mean 0.01514
Std Dev 0.9709
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

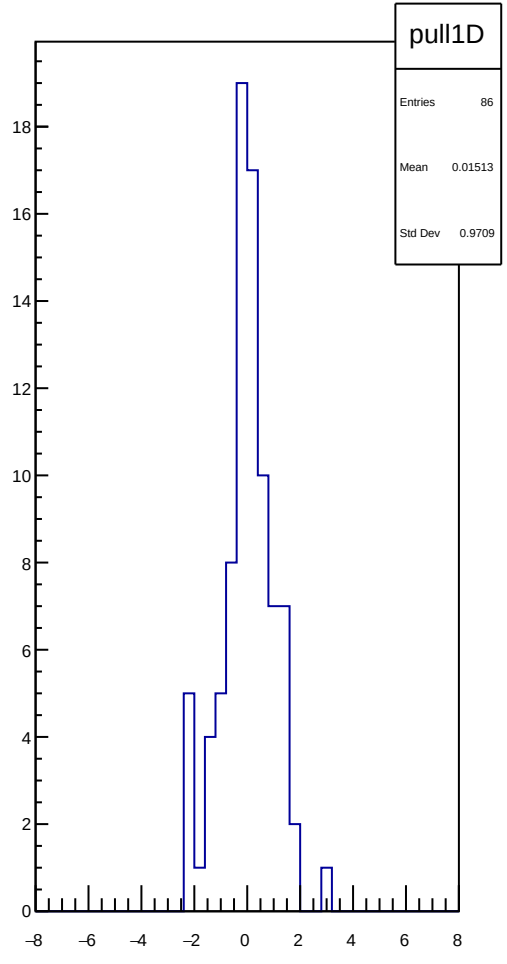

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 2.066e+05 / 85
p0 650.1 ± 0.5342
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

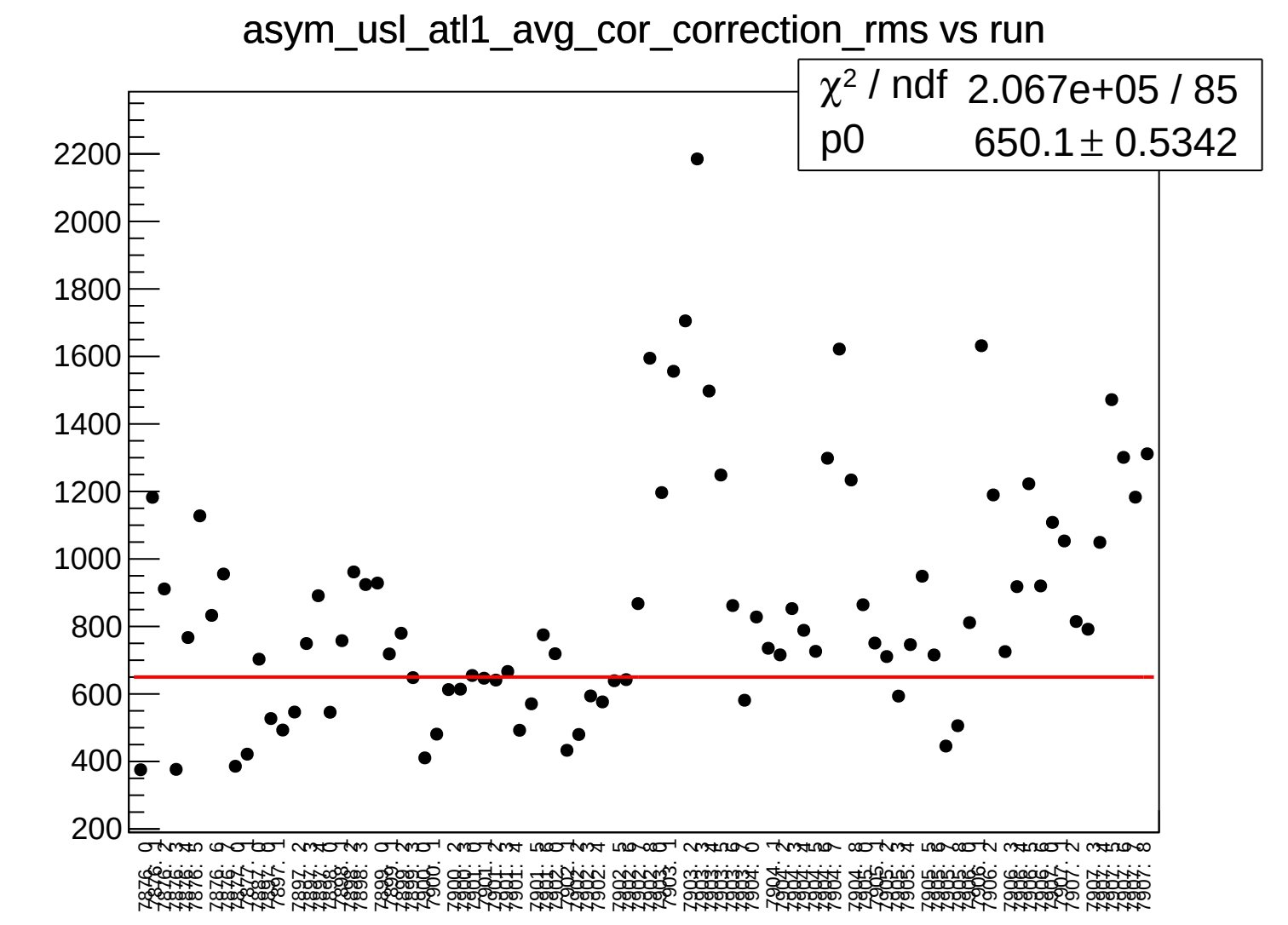

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 90 / 85
p0 2166 ± 1603
pull
Entries 86
Mean 2027
Std Dev 0

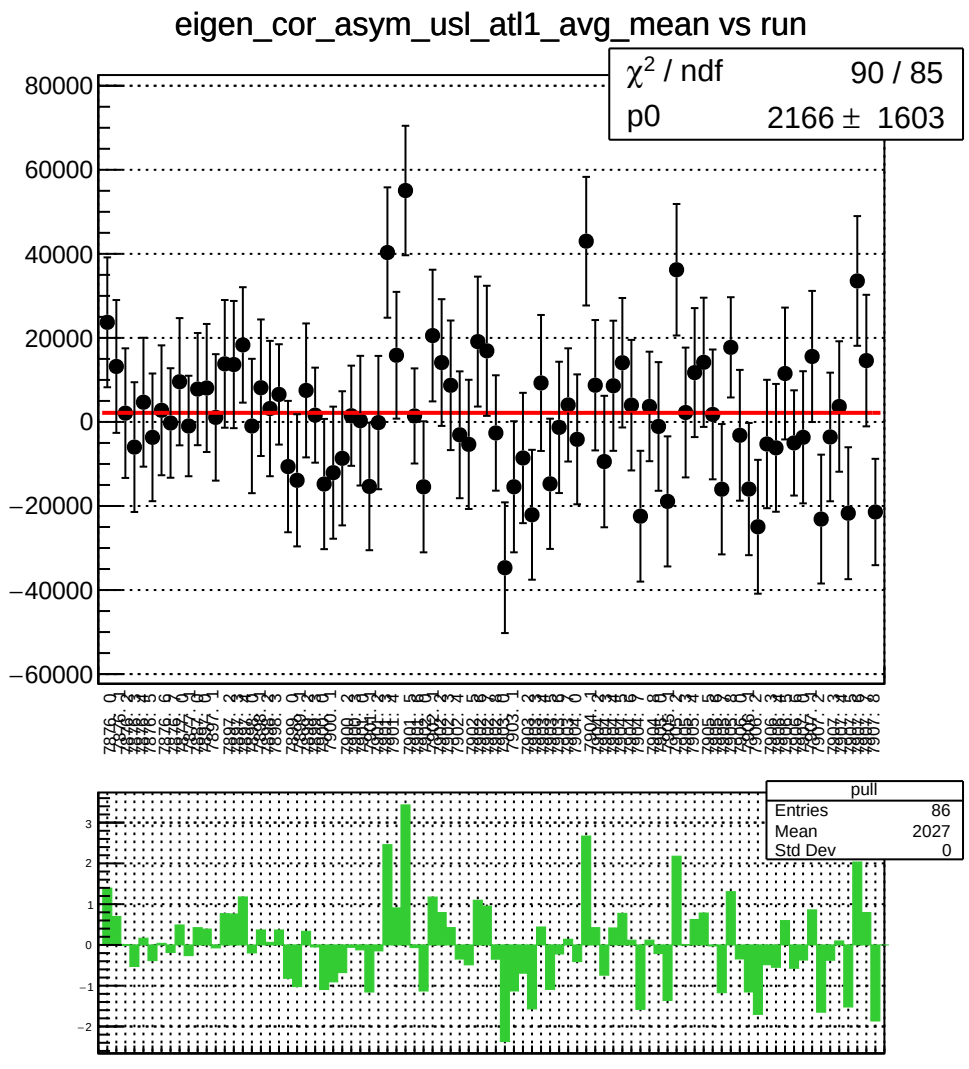

pull1D
Entries 86
Mean −0.0018
Std Dev 1.023

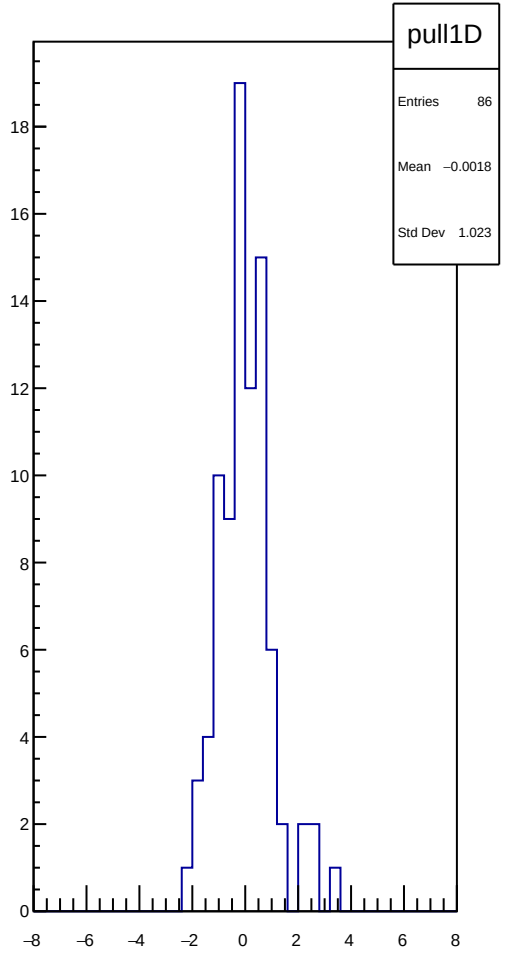

cor_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 430.6 / 85
p0 1472 ± 1.133
1560
1540
1520
1500
1480
1460
1440
1420

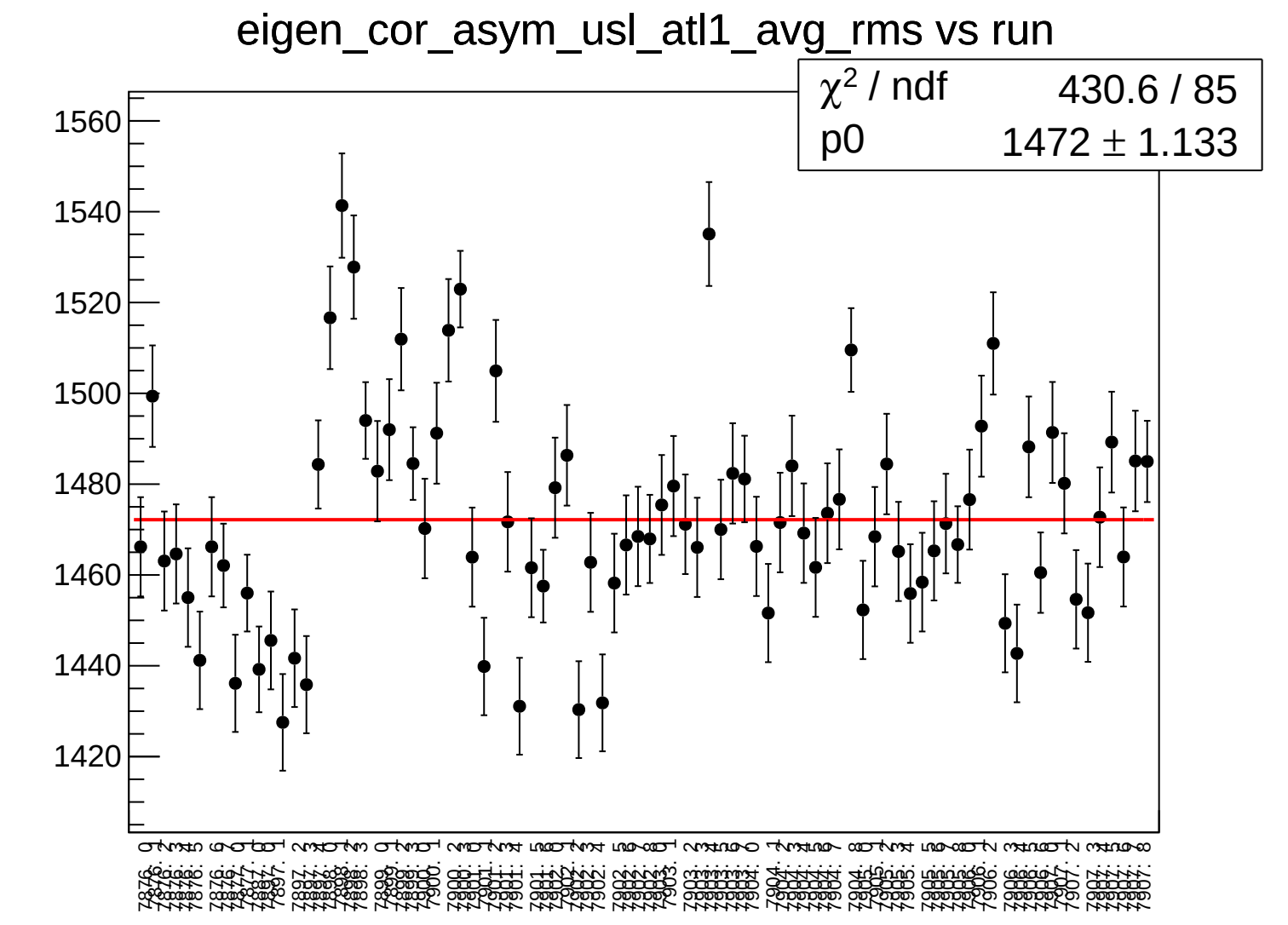

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 81.08 / 85
p0 870.6 ± 755.4
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −50.76
Std Dev 0
3
2
1
0
−1
−2

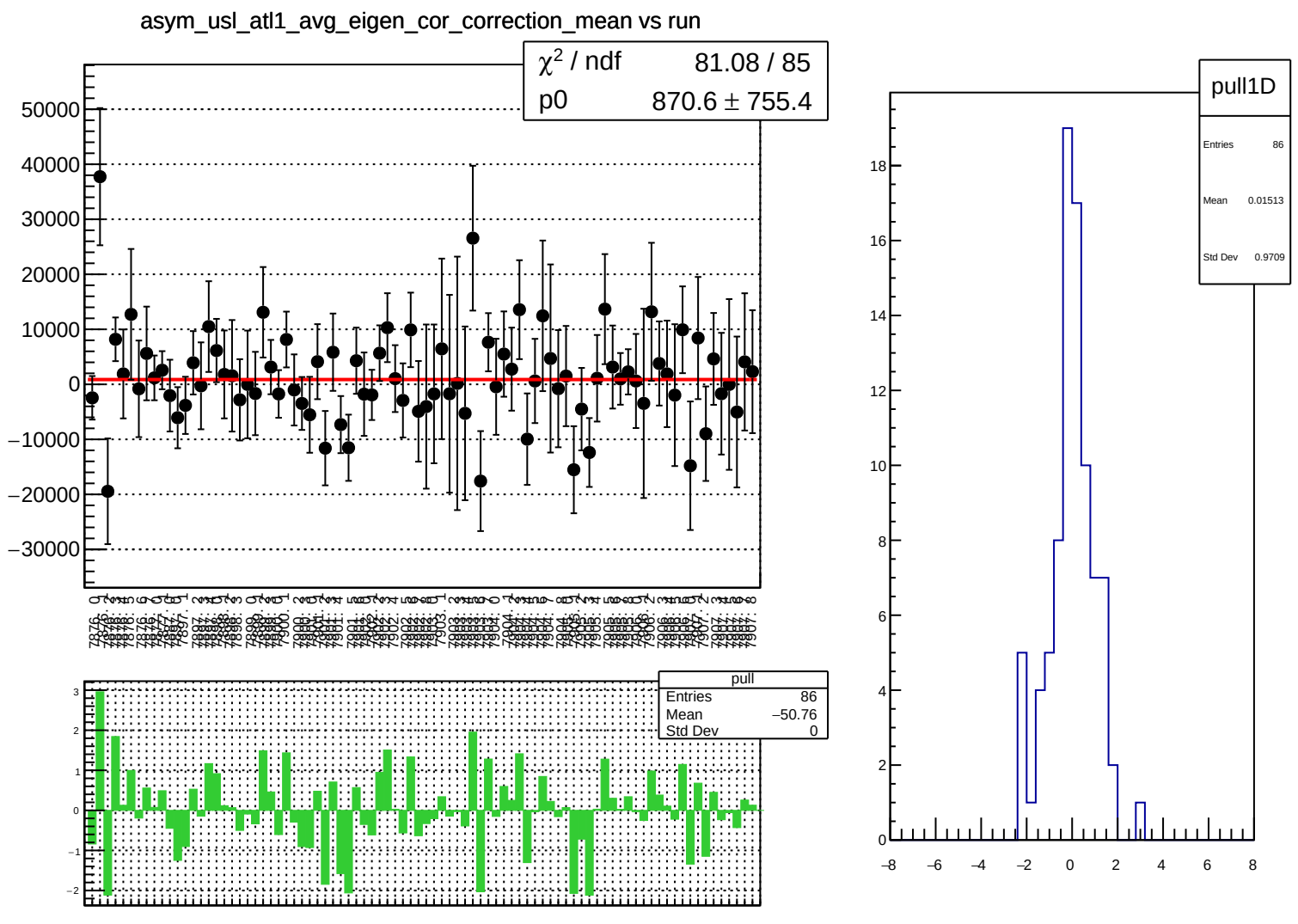

pull1D
Entries 86
Mean 0.01513
Std Dev 0.9709
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

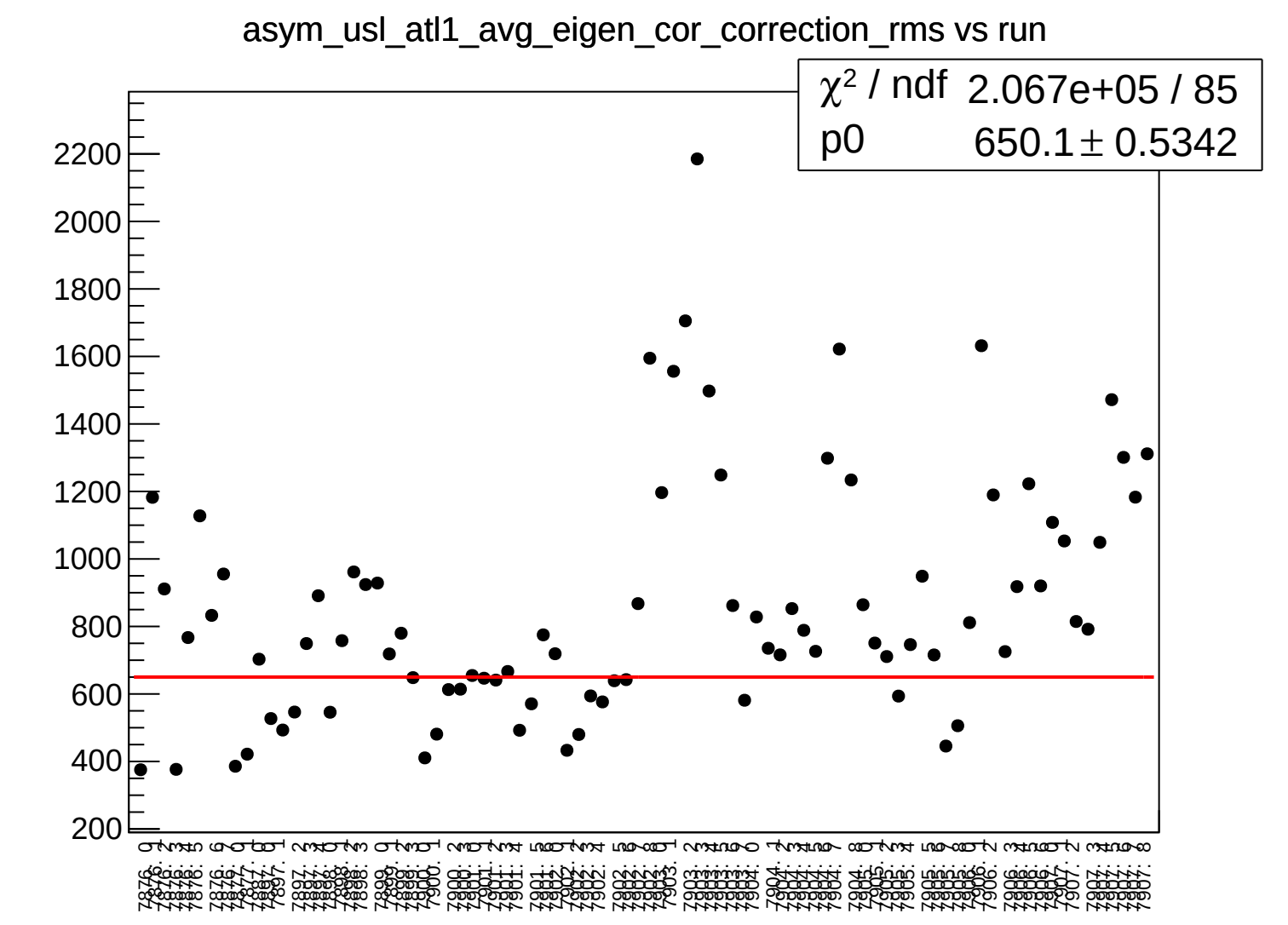

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 2.067e+05 / 85
p0 650.1 ± 0.5342
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

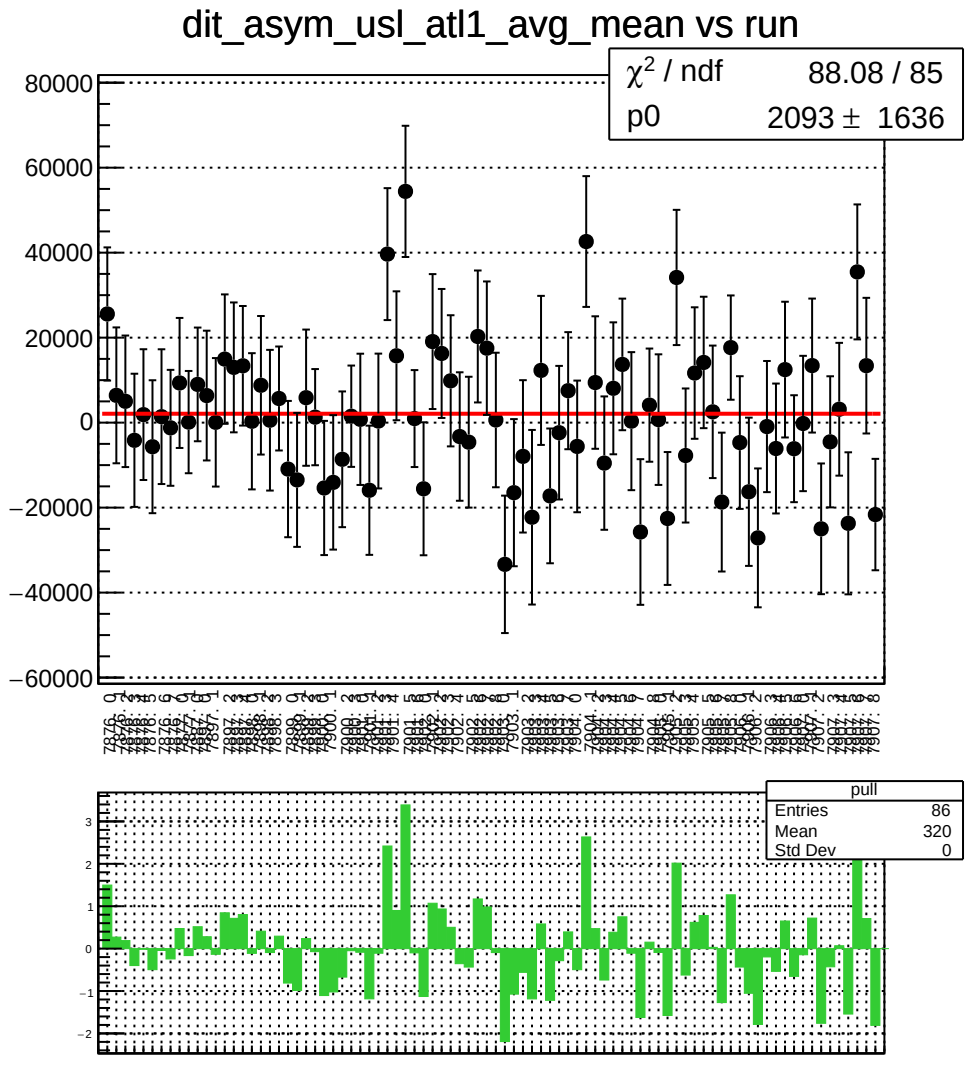

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 90 / 85
p0 2166 ± 1603
pull
Entries 86
Mean 2027
Std Dev 0

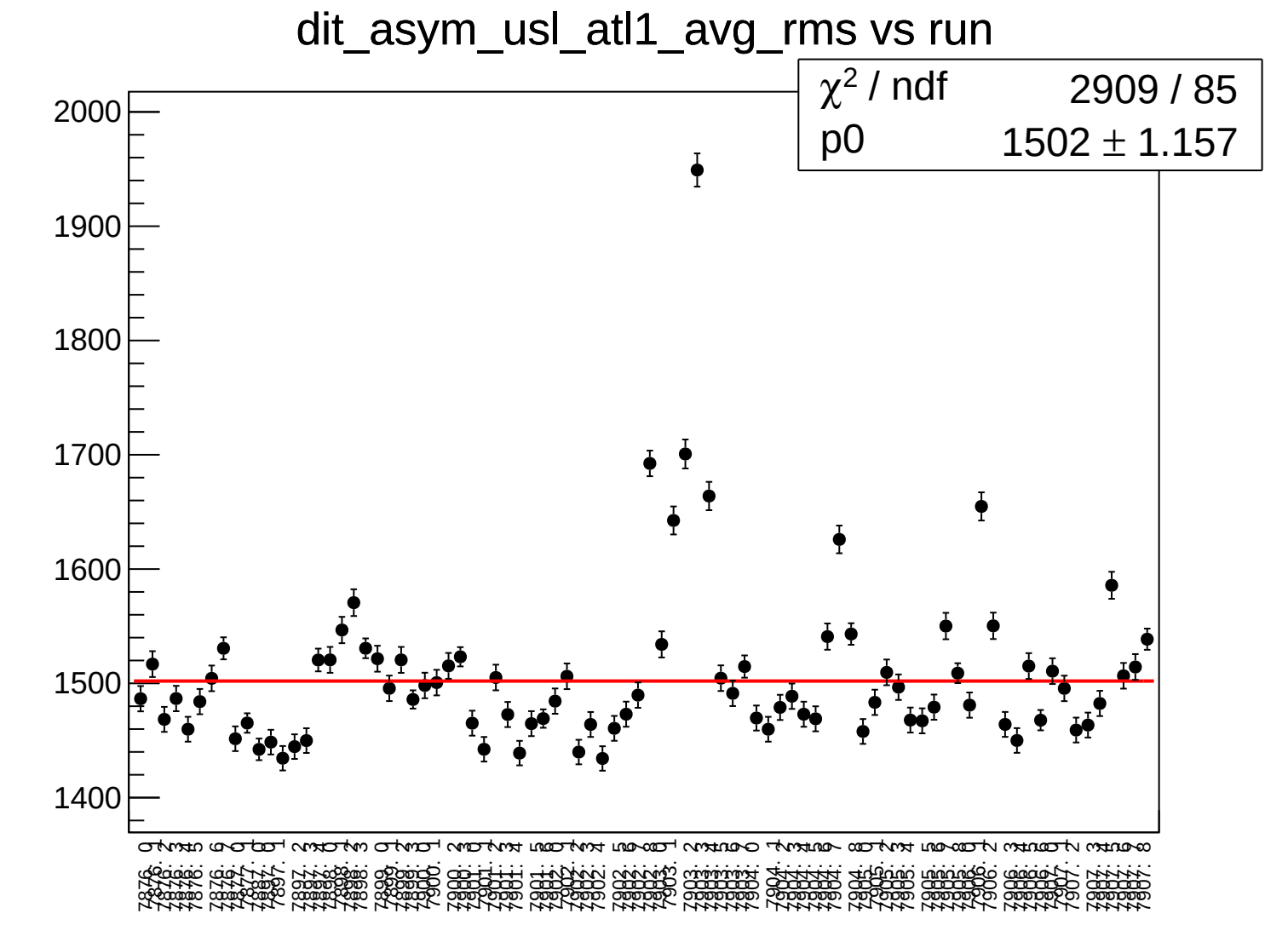

pull1D
Entries 86
Mean −0.0018
Std Dev 1.023

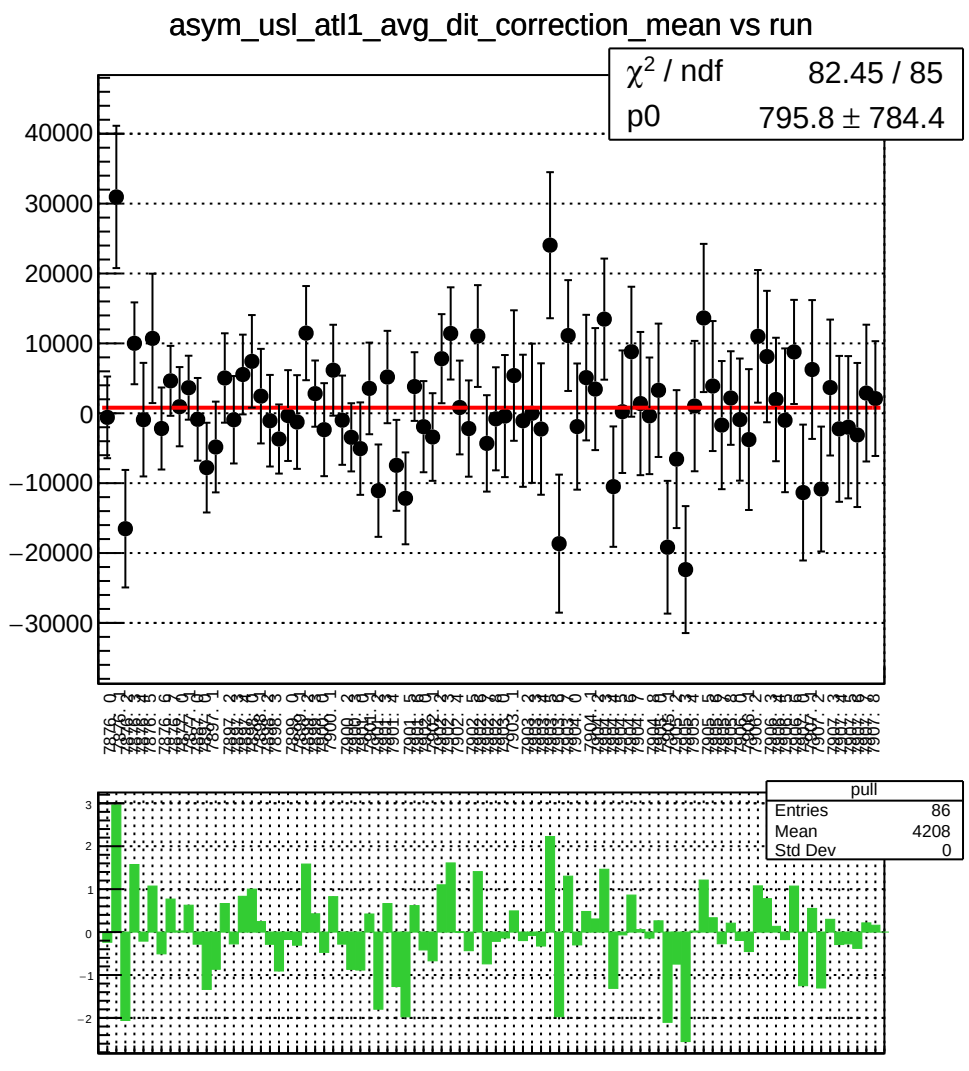

eigen_cor_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 430.6 / 85
p0 1472 ± 1.133
1560
1540
1520
1500
1480
1460
1440
1420

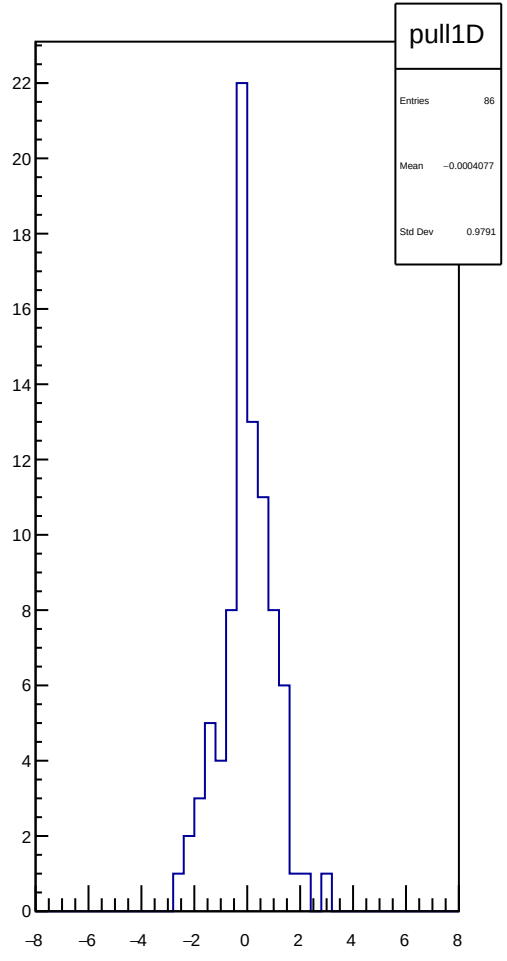

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.08 / 85
p0 870.6 ± 755.4
pull
Entries 86
Mean −50.76
Std Dev 0
pull1D
Entries 86
Mean 0.01513
Std Dev 0.9709

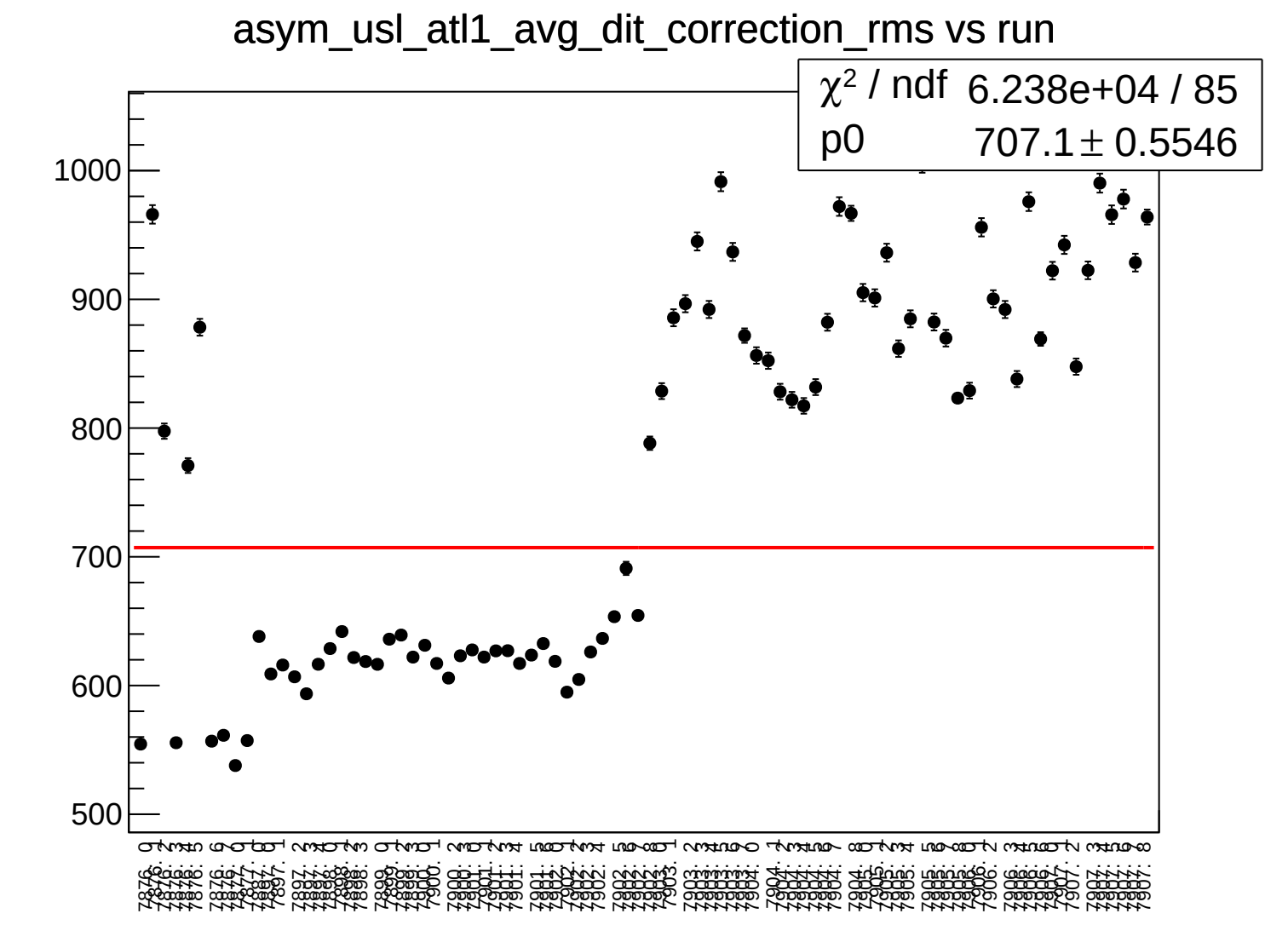

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.067e+05 / 85
p0 650.1 ± 0.5342
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

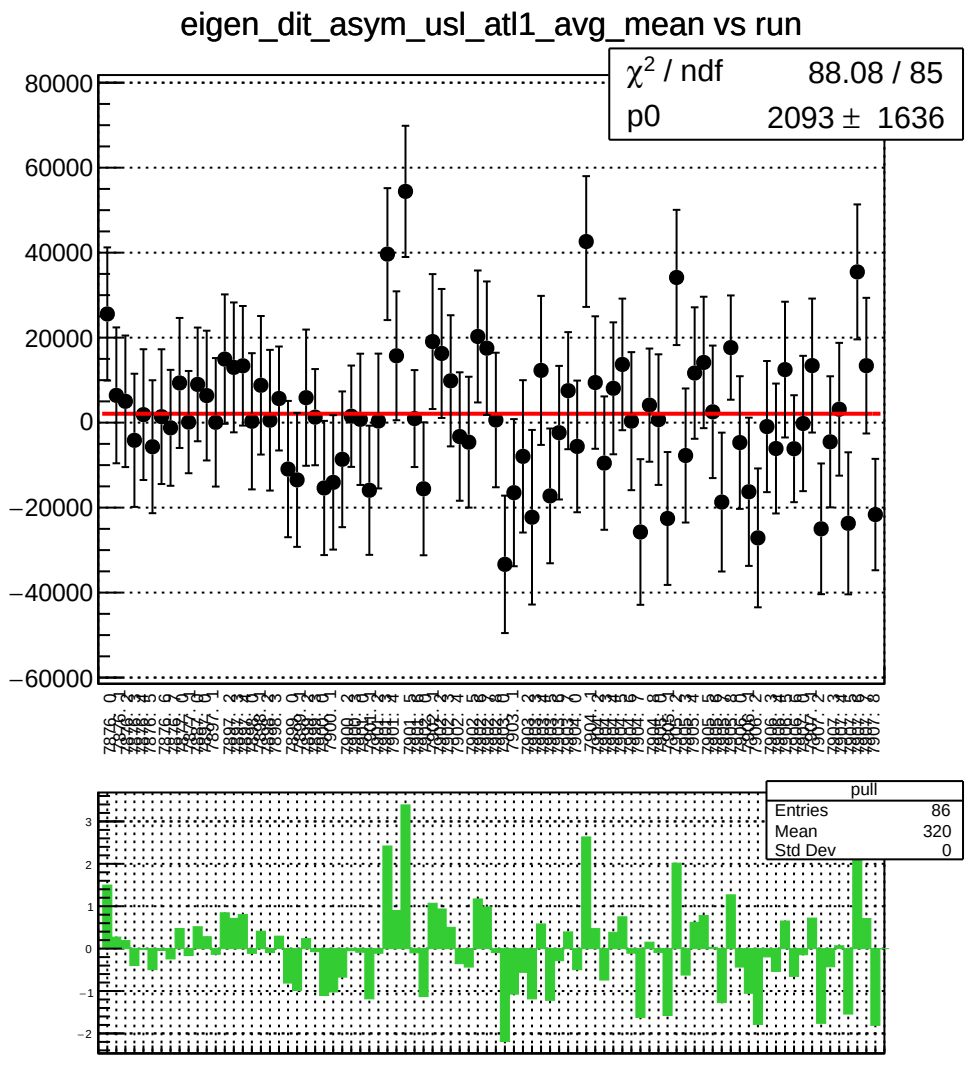

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.08 / 85
p0 2093 ± 1636
pull
Entries 86
Mean 320
Std Dev 0
pull1D
Entries 86
Mean −0.01241
Std Dev 1.012

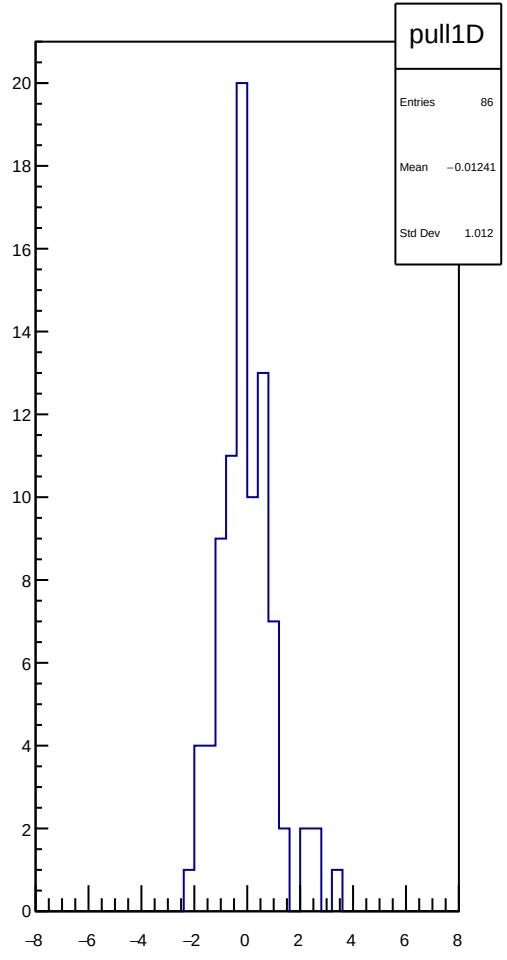

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 2909 / 85
p0 1502 ± 1.157
2000
1900
1800
1700
1600
1500
1400

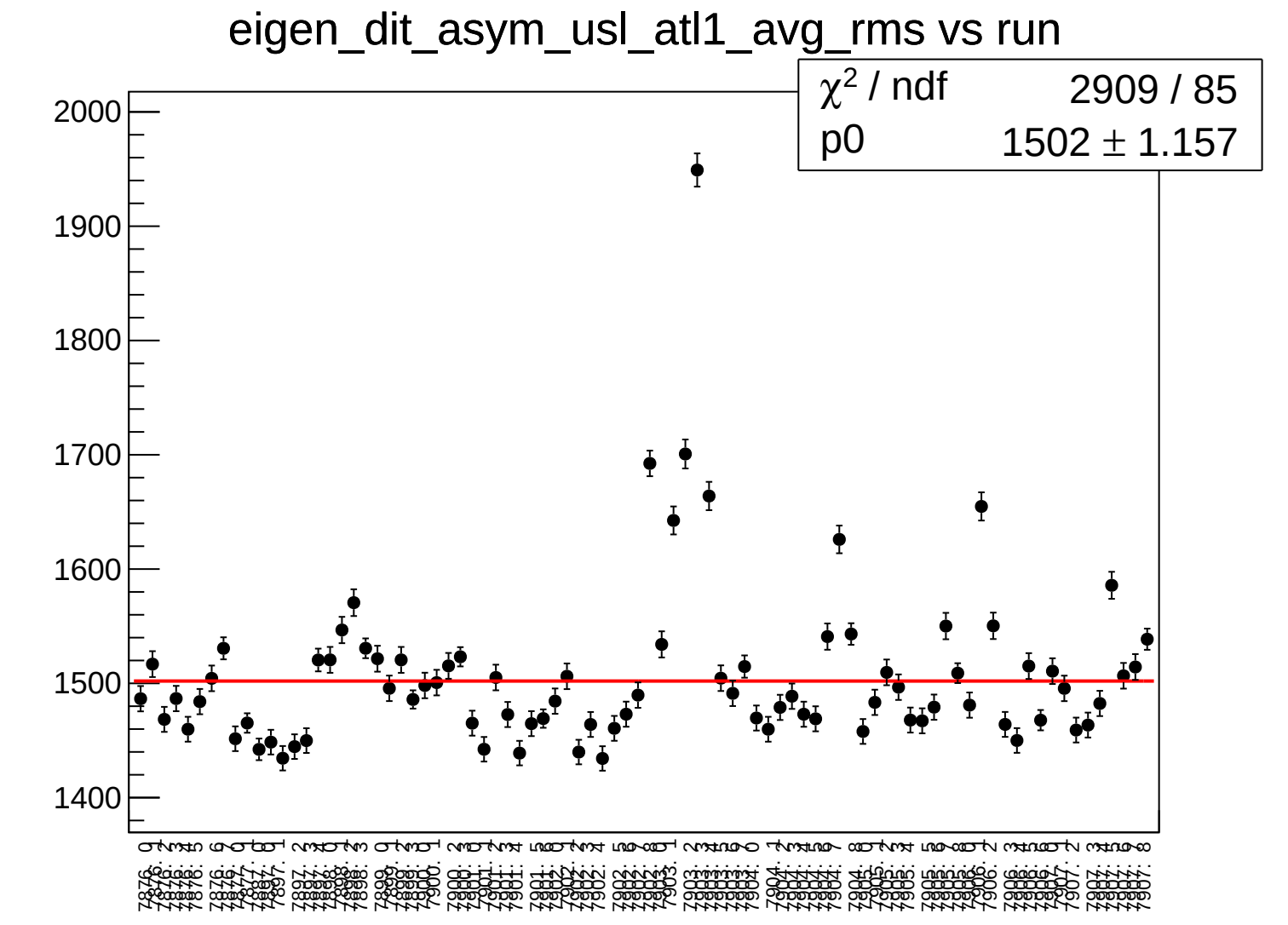

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 82.45 / 85
p0 795.8 ± 784.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 4208
Std Dev 0
3
2
1
0
−1
−2

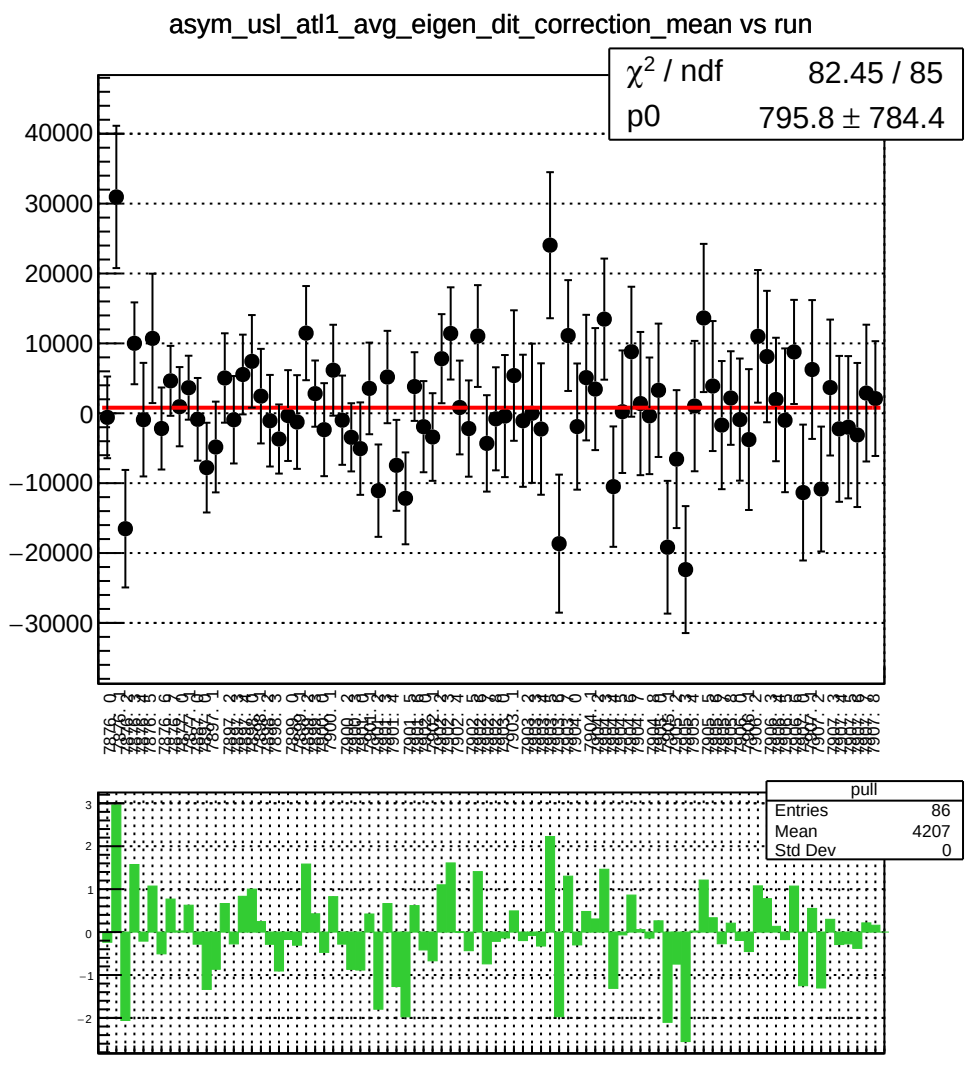

pull1D
Entries 86
Mean −0.0004077
Std Dev 0.9791
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

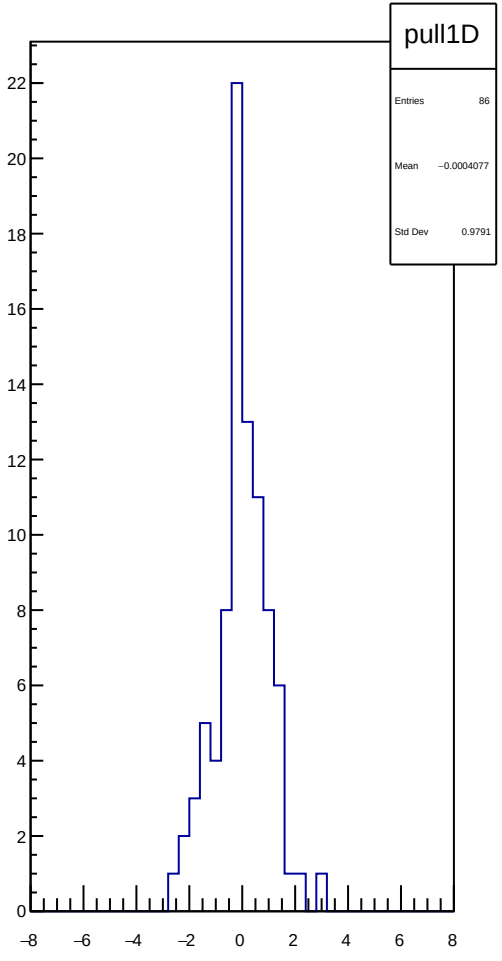

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 6.238e+04 / 85
p0 707.1 ± 0.5546
1000
900
800
700
600
500

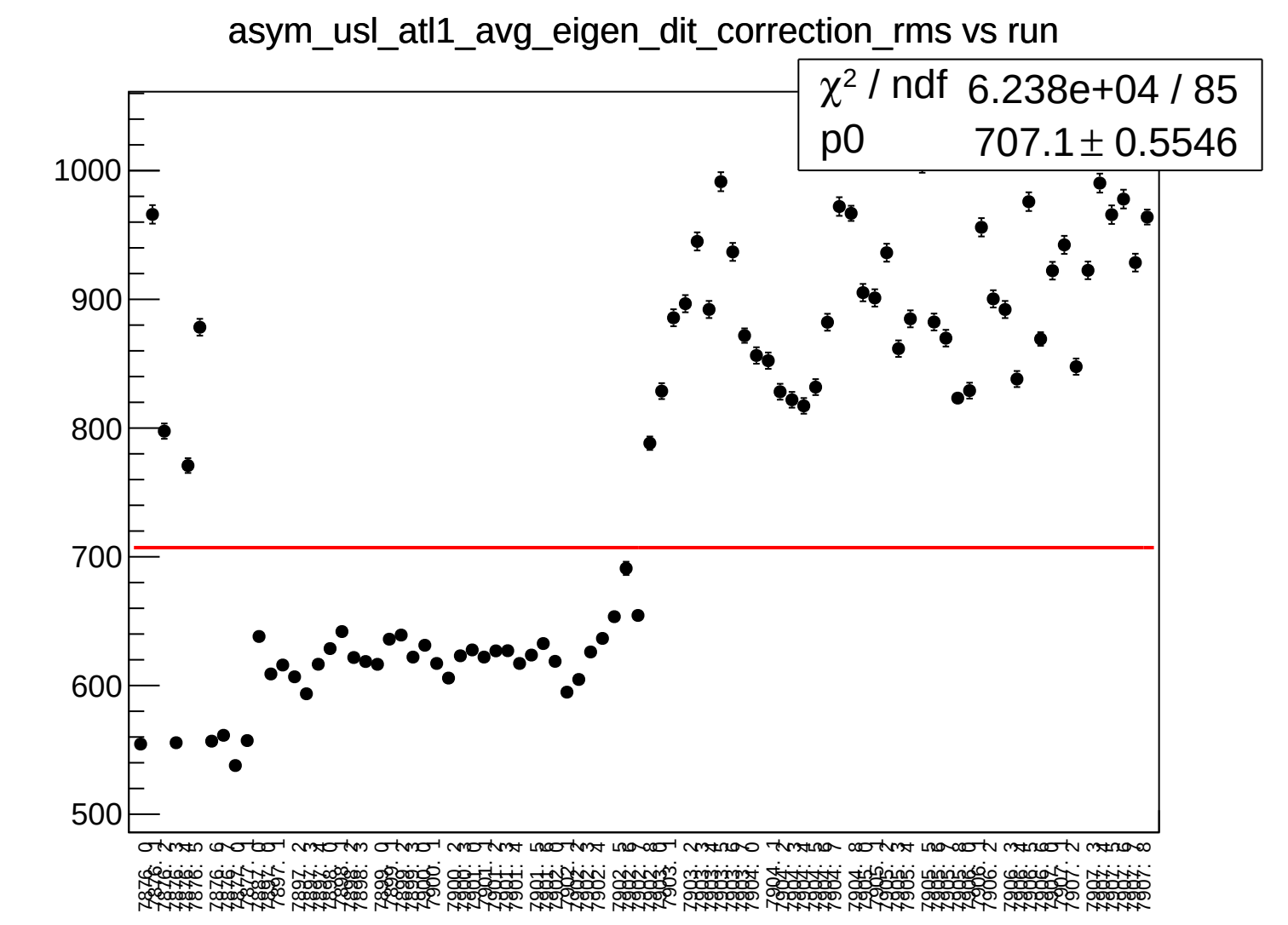

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.08 / 85
p0 2093 ± 1636
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 320
Std Dev 0
3
2
1
0
−1
−2

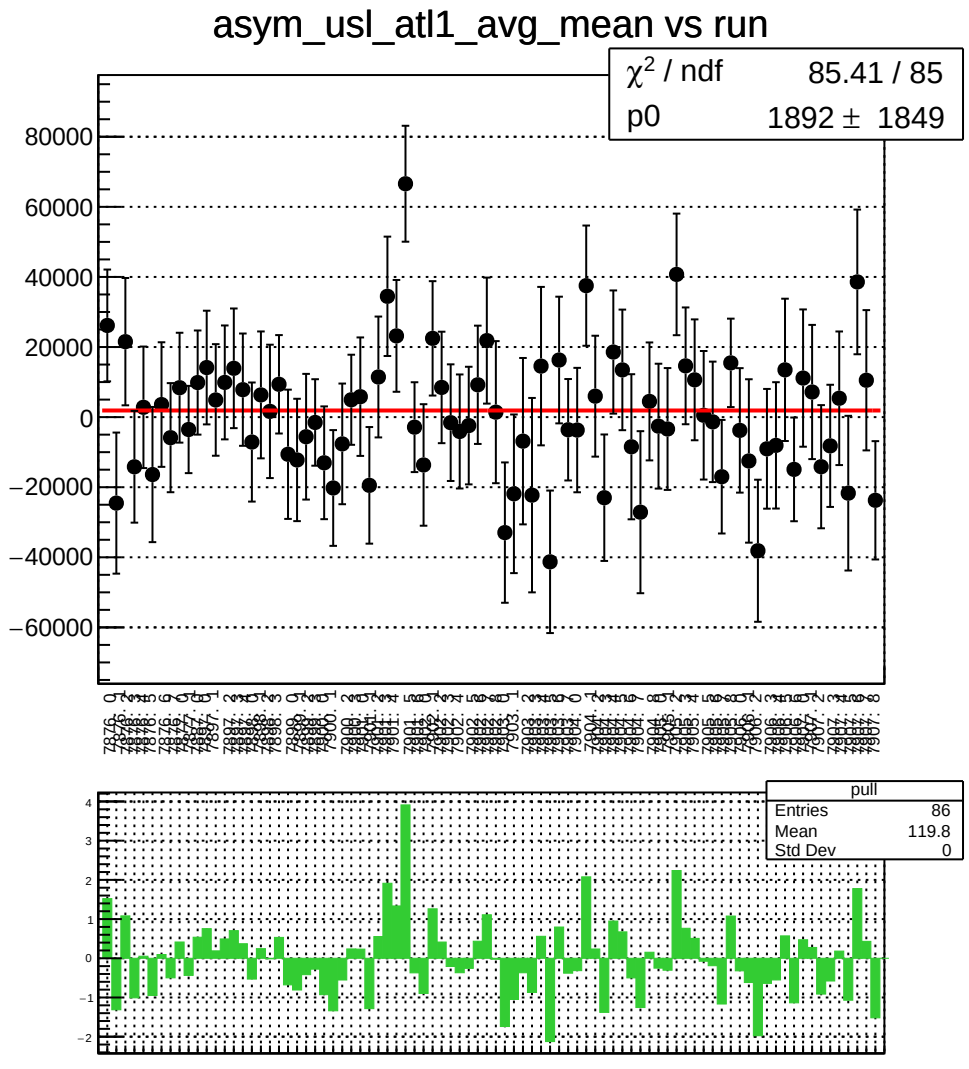

pull1D
Entries 86
Mean −0.01241
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

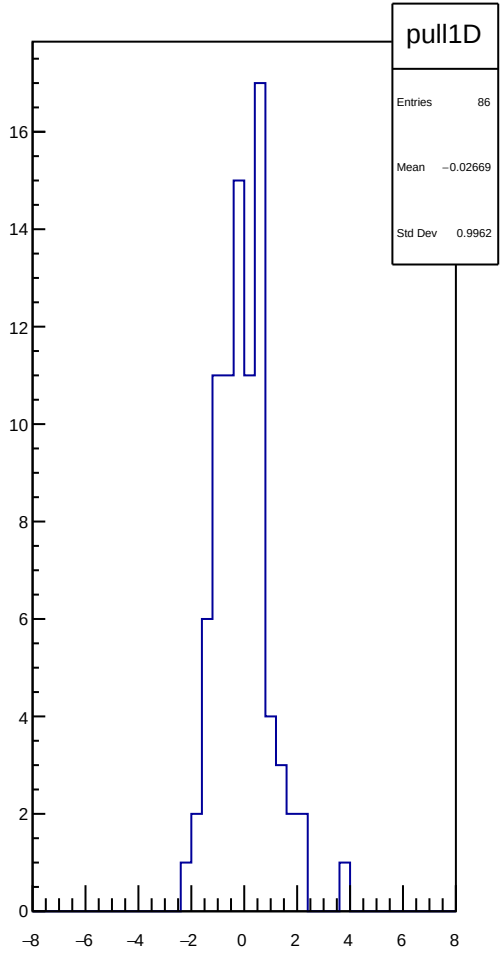

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 2909 / 85
p0 1502 ± 1.157
2000
1900
1800
1700
1600
1500
1400

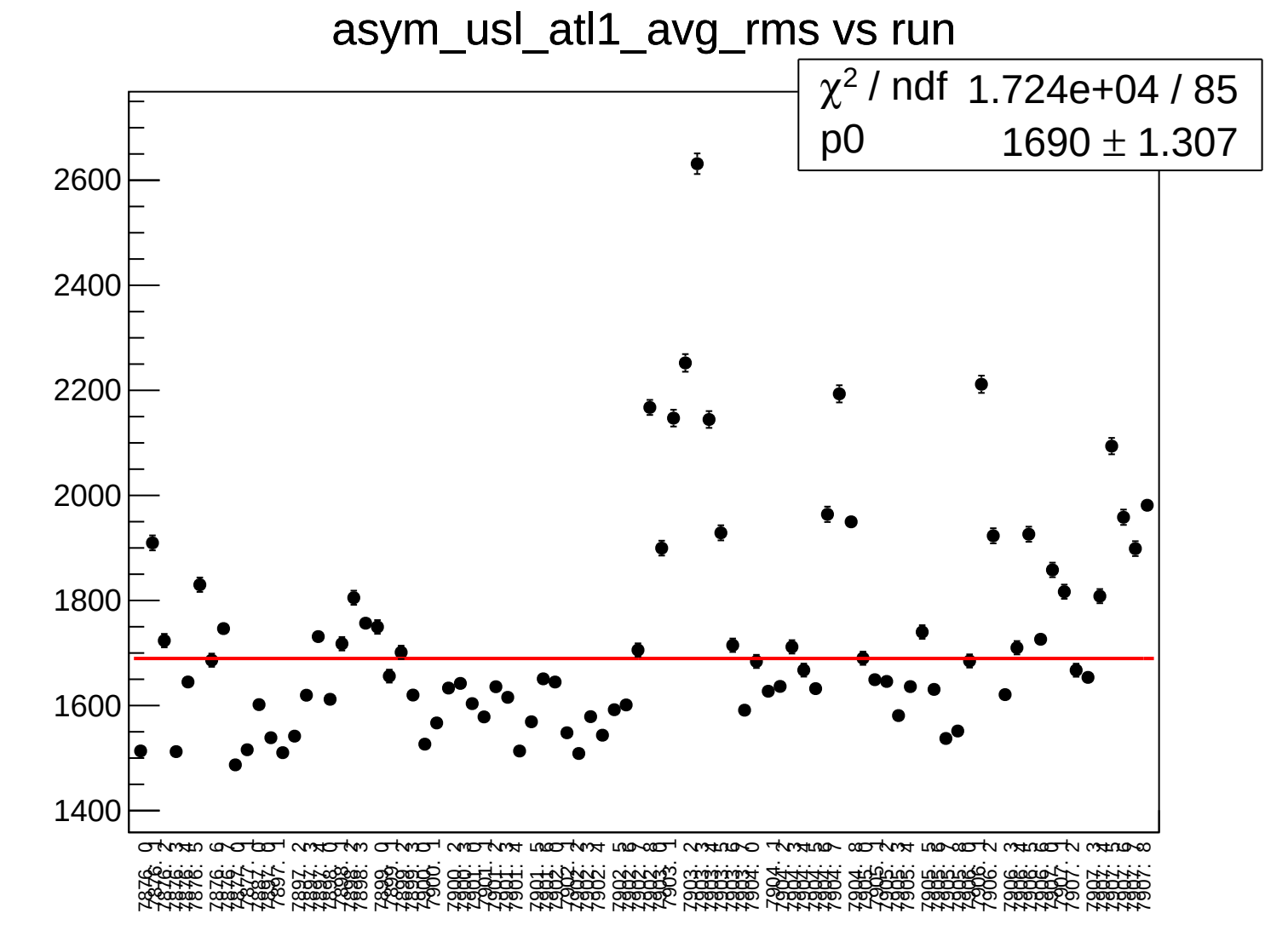

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.45 / 85
p0 795.8 ± 784.4
pull
Entries 86
Mean 4207
Std Dev 0

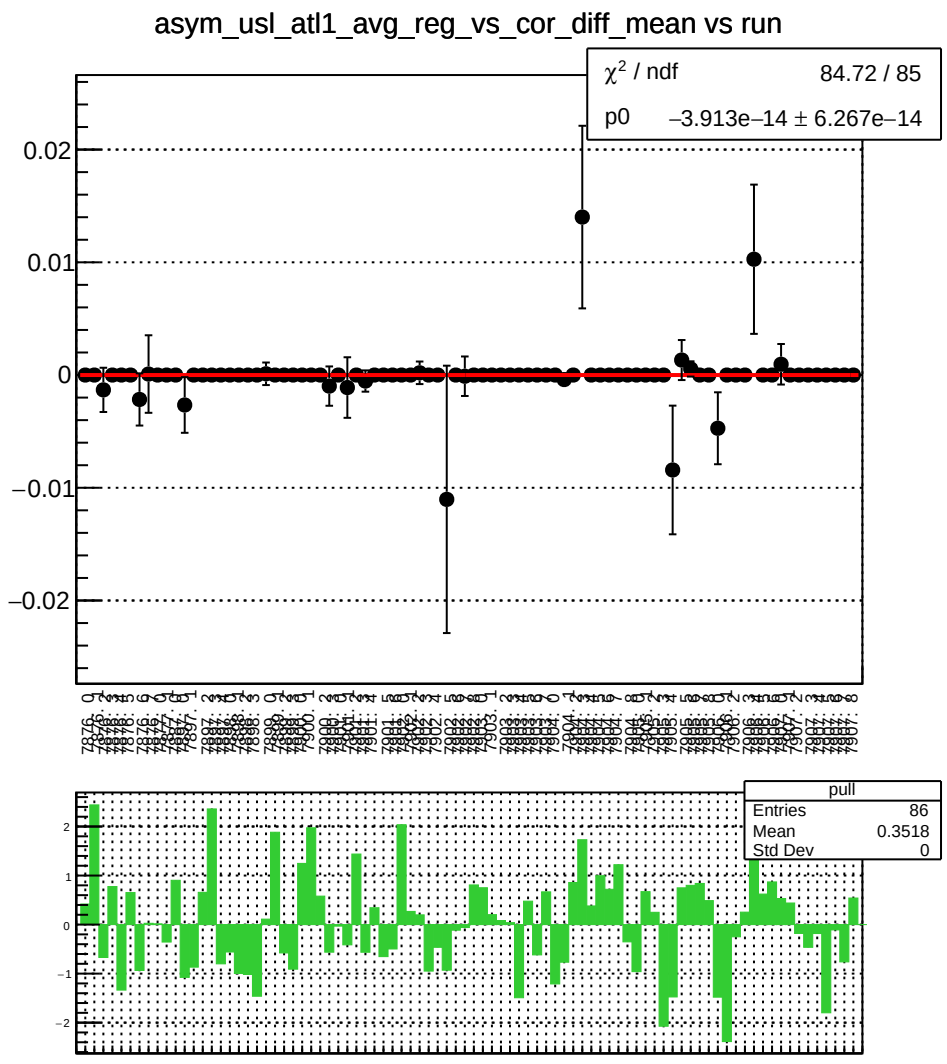

pull1D
Entries 86
Mean −0.0004077
Std Dev 0.9791

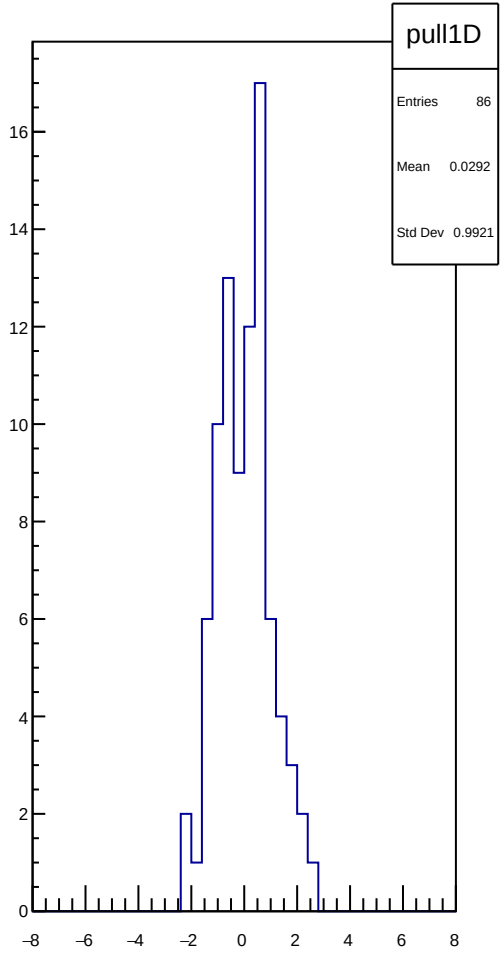

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.238e+04 / 85
p0 707.1 ± 0.5546
1000
900
800
700
600
500

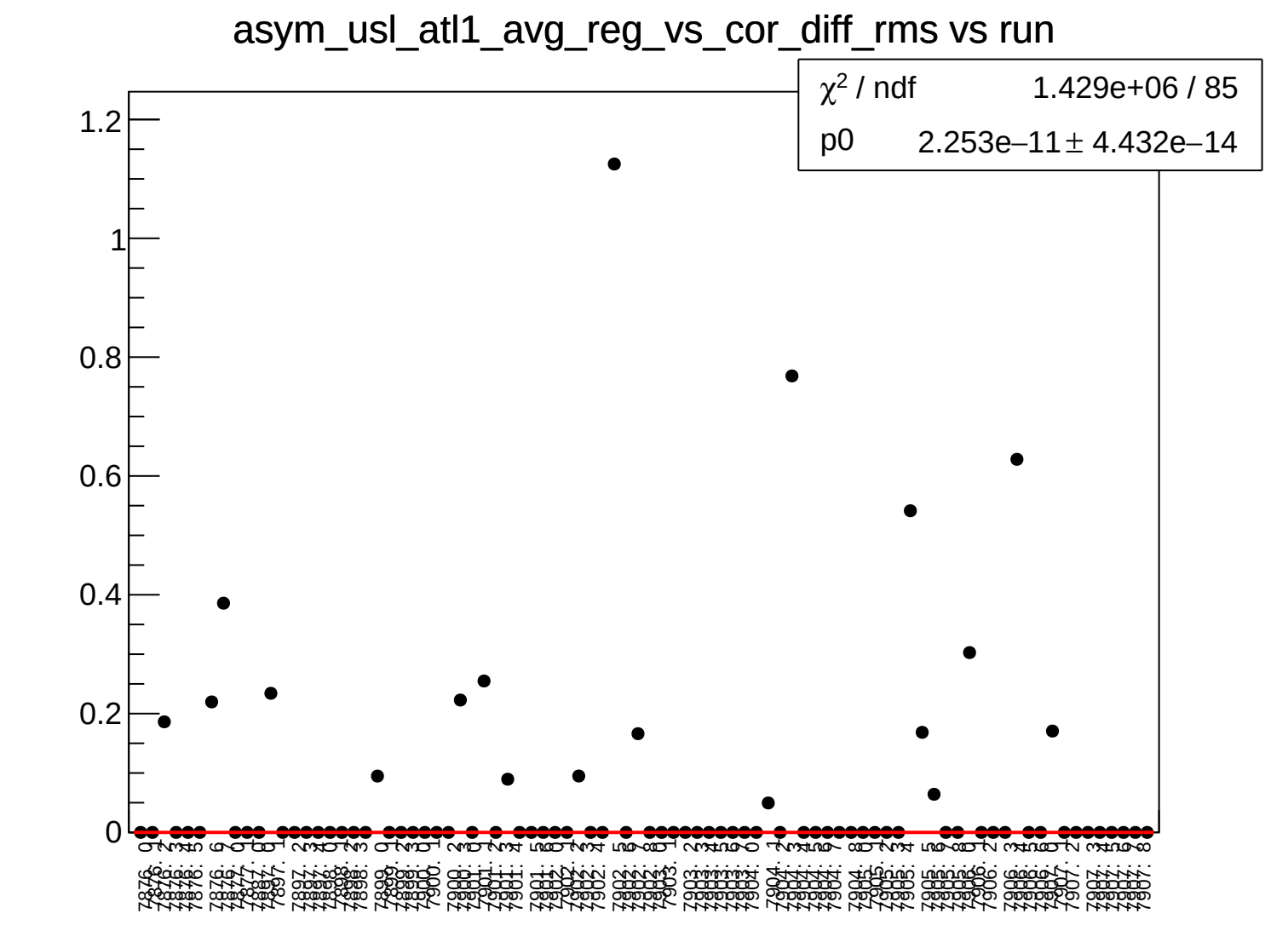

asym_usl_atl1_avg_mean vs run
χ² / ndf 85.41 / 85
p0 1892 ± 1849
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 119.8
Std Dev 0
4
3
2
1
0
−1
−2

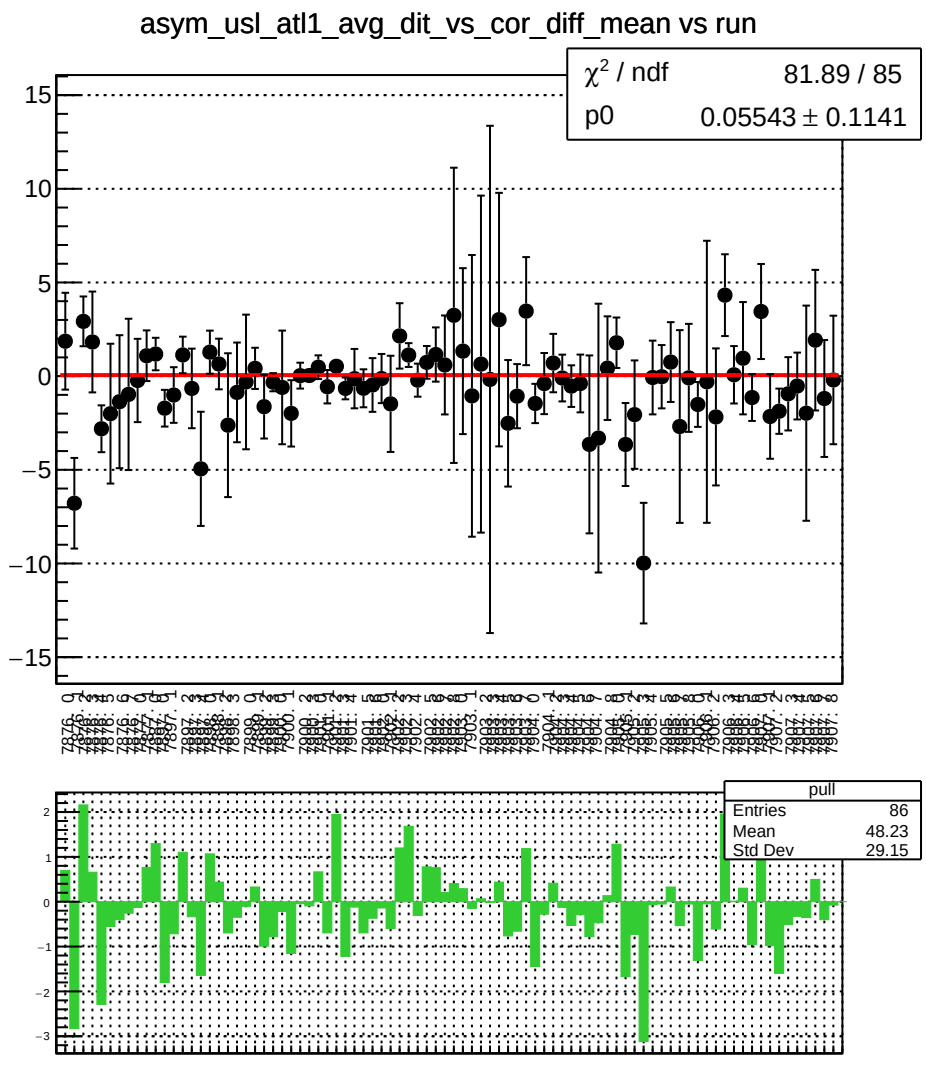

pull1D
Entries 86
Mean −0.02669
Std Dev 0.9962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

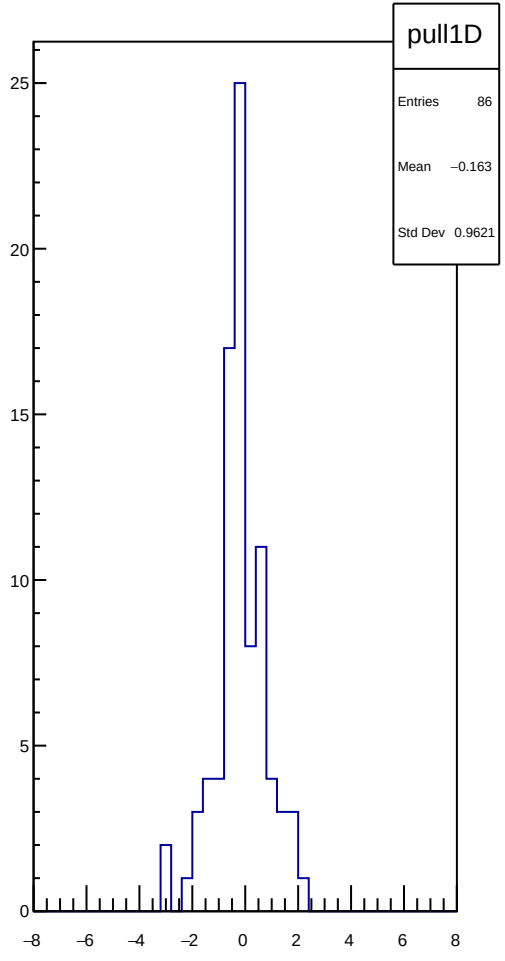

asym_usl_atl1_avg_rms vs run
χ² / ndf 1.724e+04 / 85
p0 1690 ± 1.307
2600
2400
2200
2000
1800
1600
1400

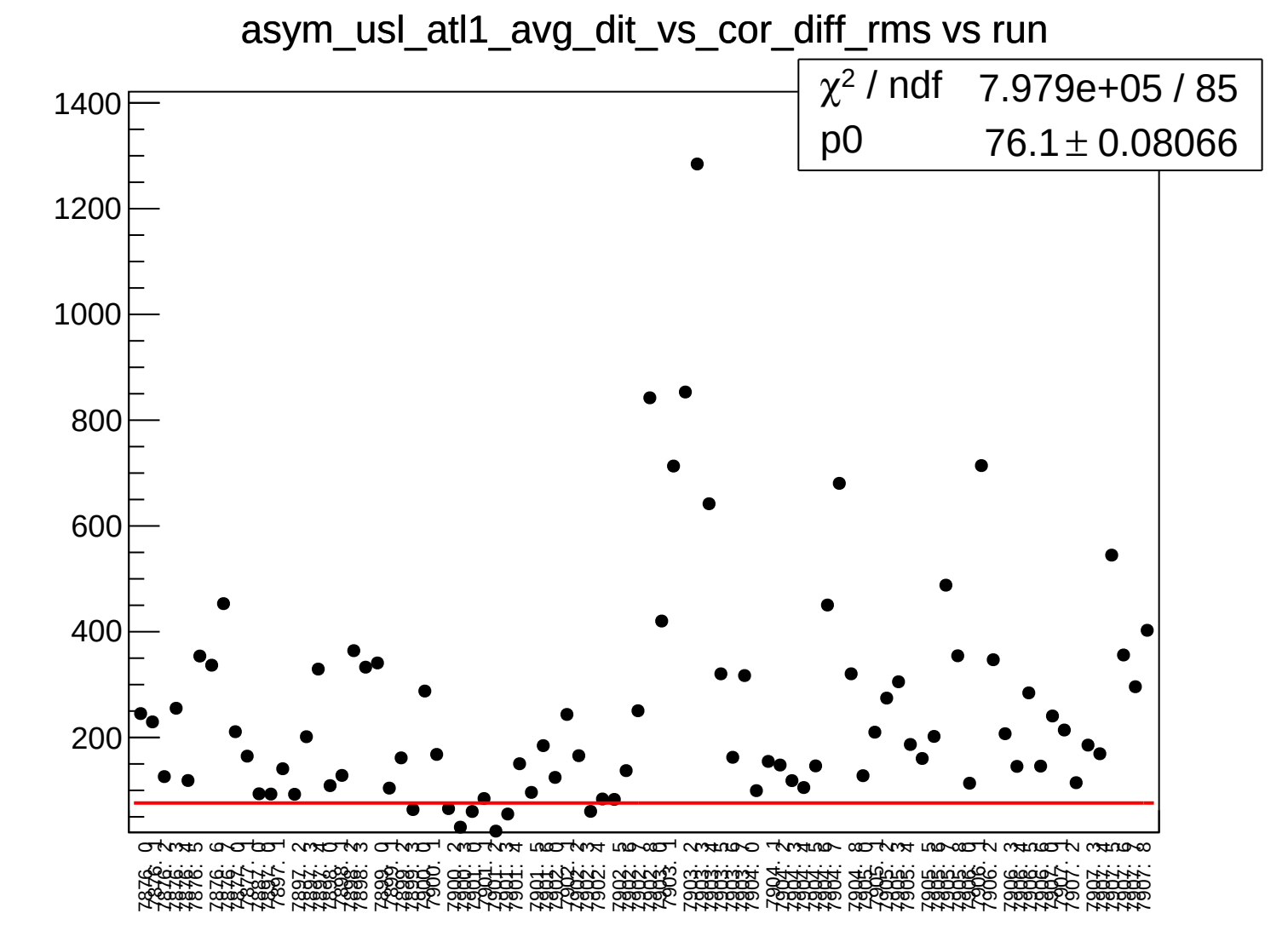

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.72 / 85
p0 −3.913e−14 ± 6.267e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 0.3518
Std Dev 0

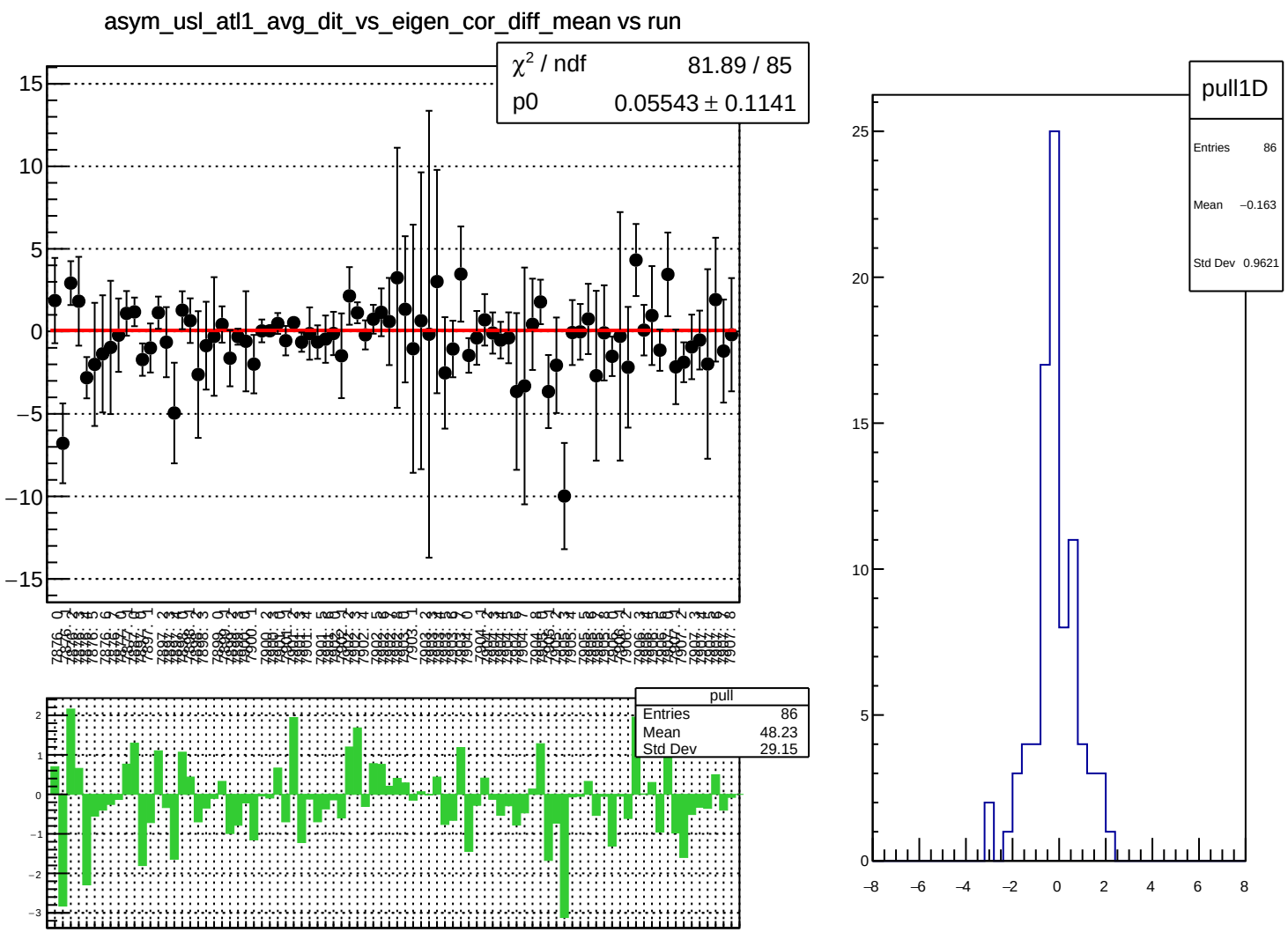

pull1D
Entries 86
Mean 0.0292
Std Dev 0.9921
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

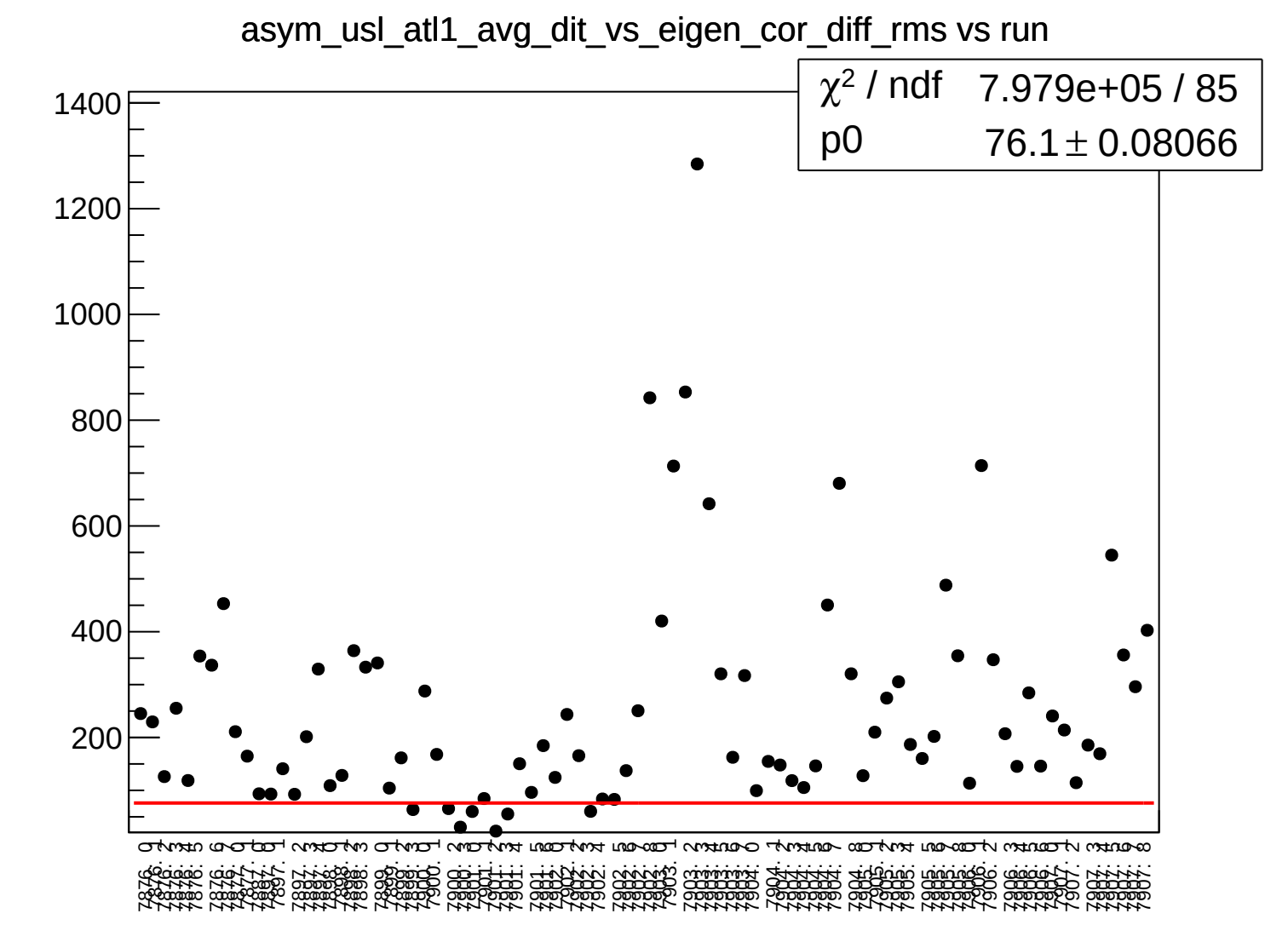

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.429e+06 / 85
p0 2.253e−11 ± 4.432e−14
1.2
1
0.8
0.6
0.4
0.2
0

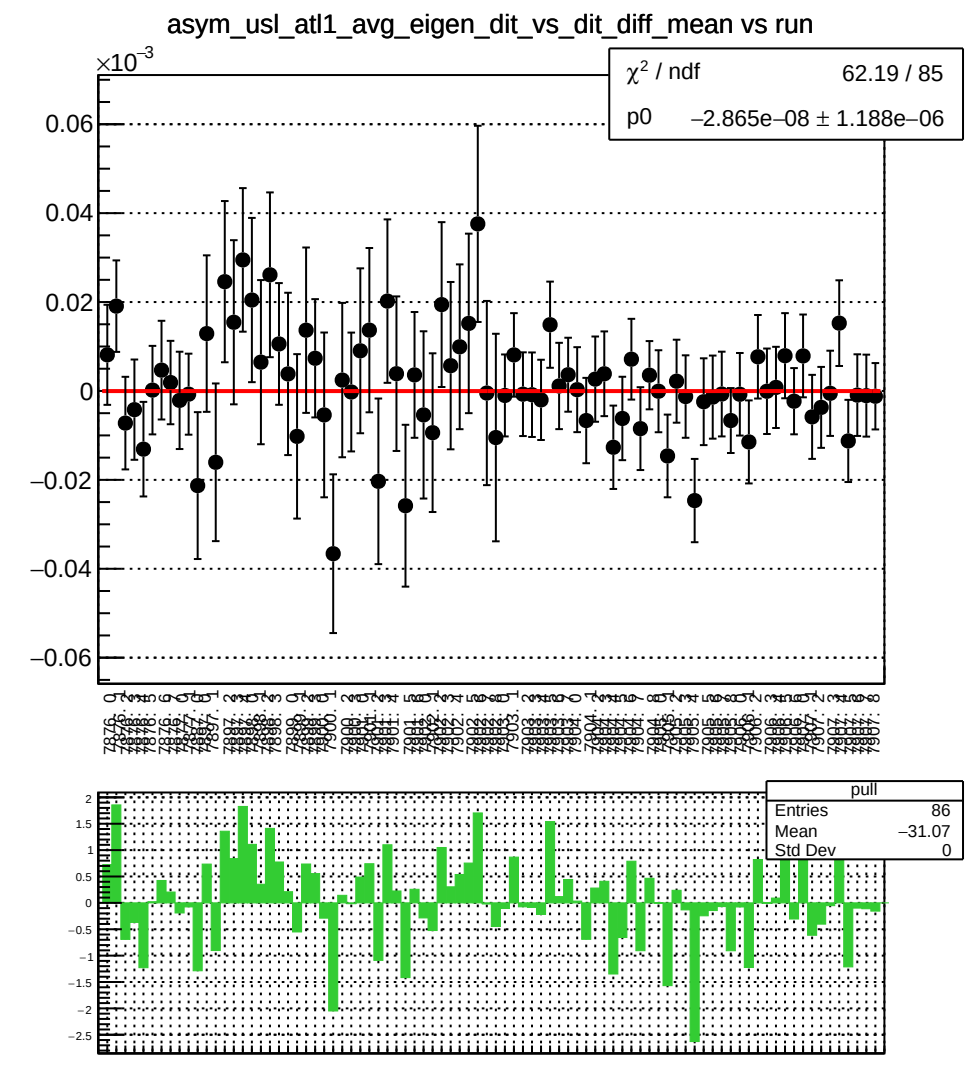

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.89 / 85
p0 0.05543 ± 0.1141
pull
Entries 86
Mean 48.23
Std Dev 29.15

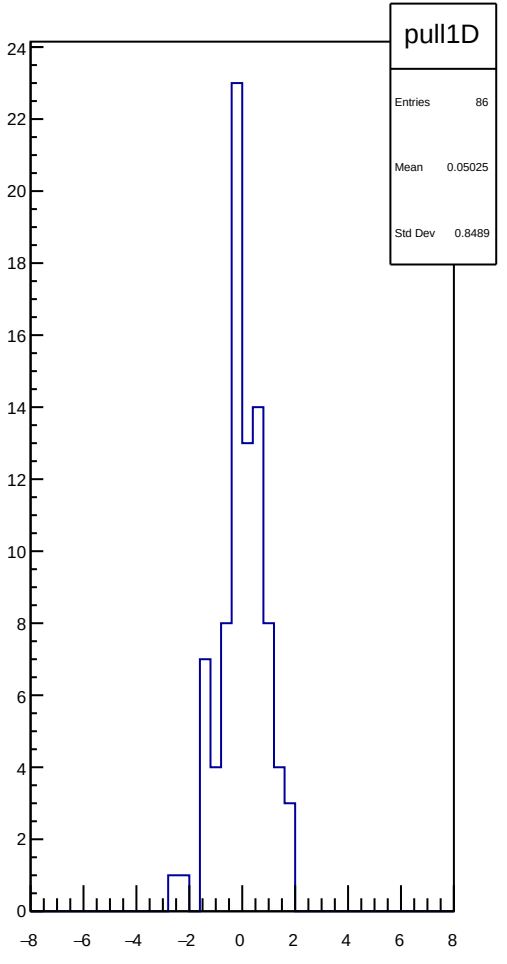

pull1D
Entries 86
Mean −0.163
Std Dev 0.9621

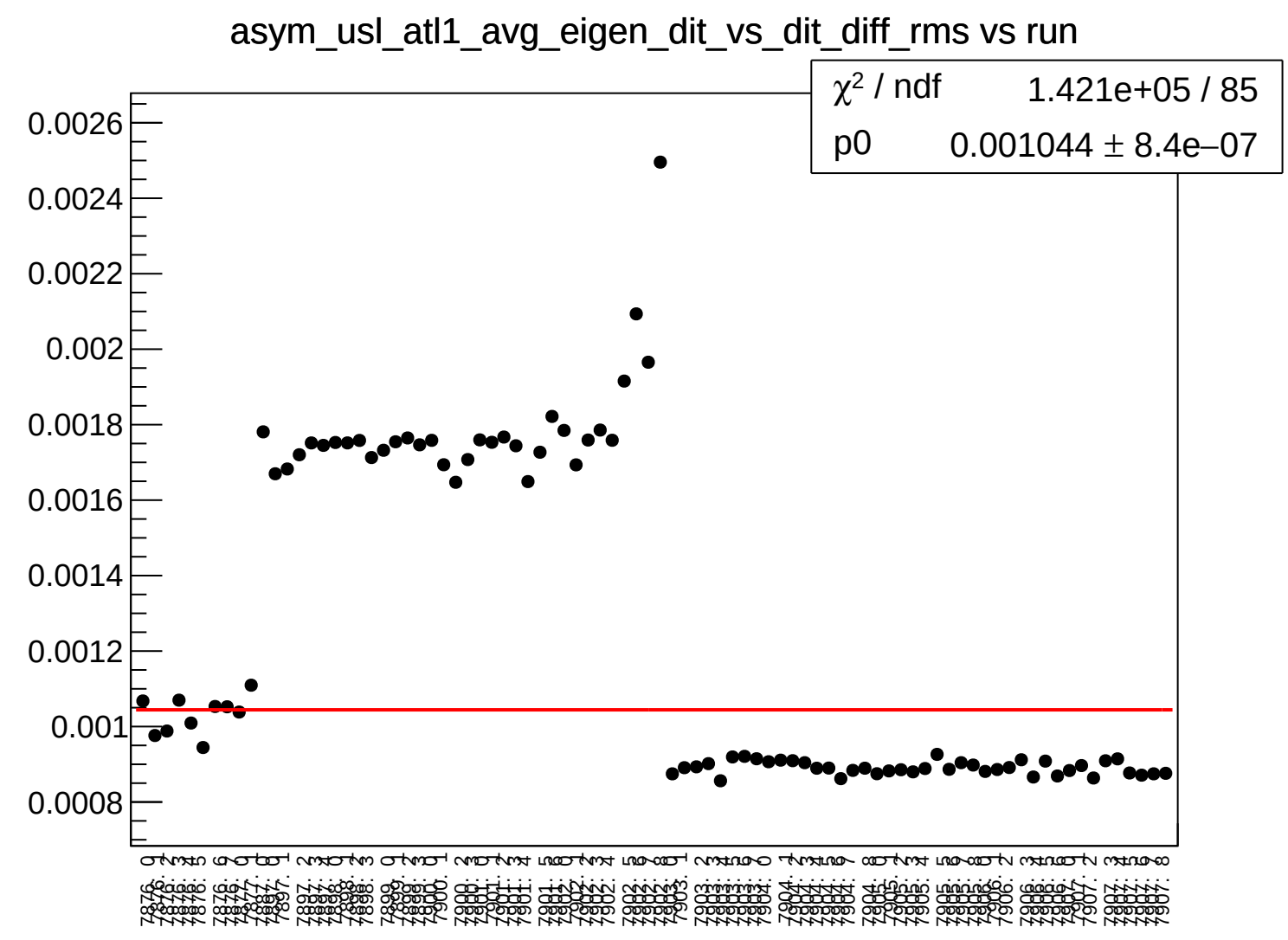

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.979e+05 / 85
p0 76.1 ± 0.08066
1400
1200
1000
800
600
400
200

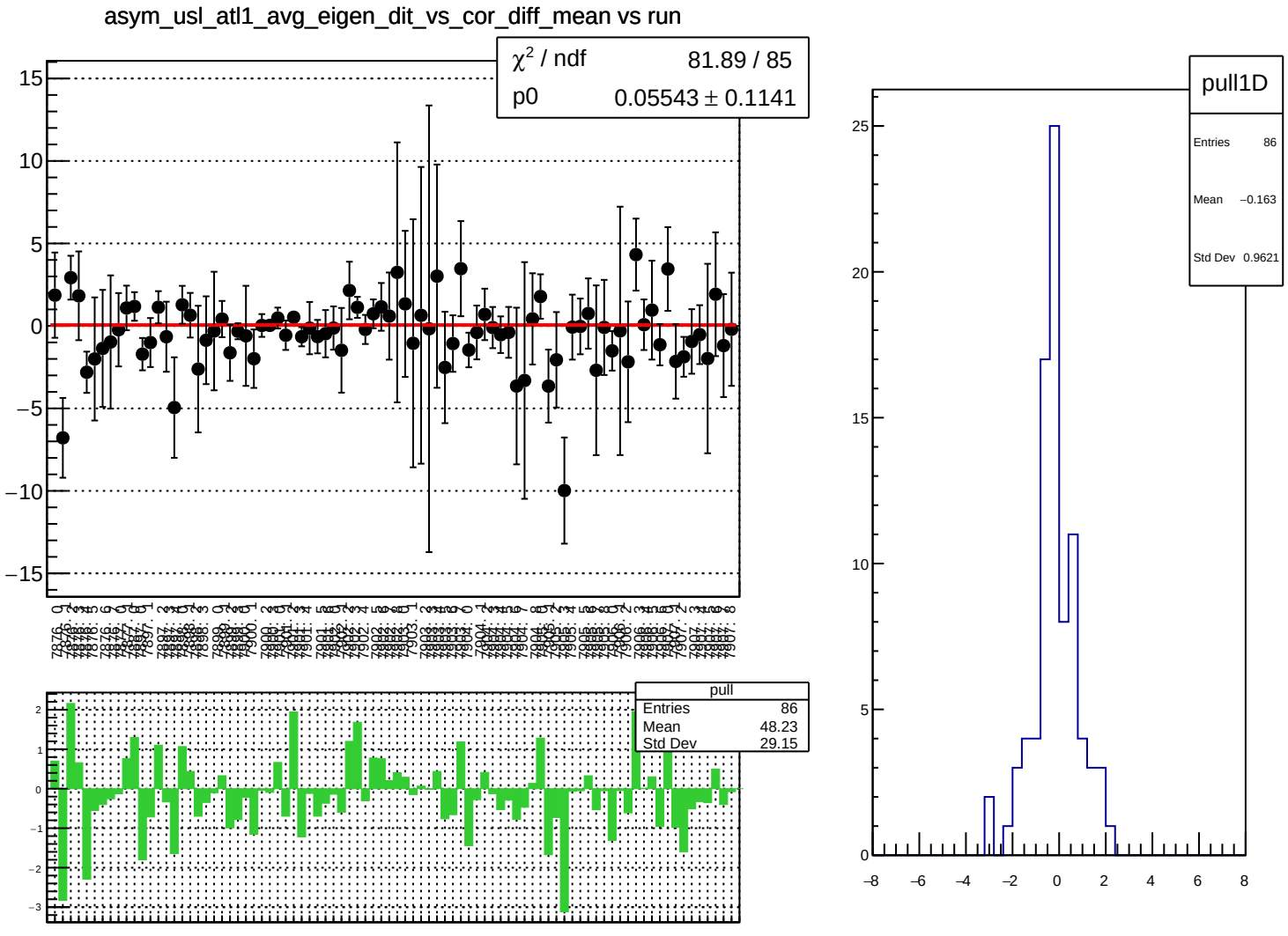

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.89 / 85
p0 0.05543 ± 0.1141
pull
Entries 86
Mean 48.23
Std Dev 29.15
pull1D
Entries 86
Mean −0.163
Std Dev 0.9621

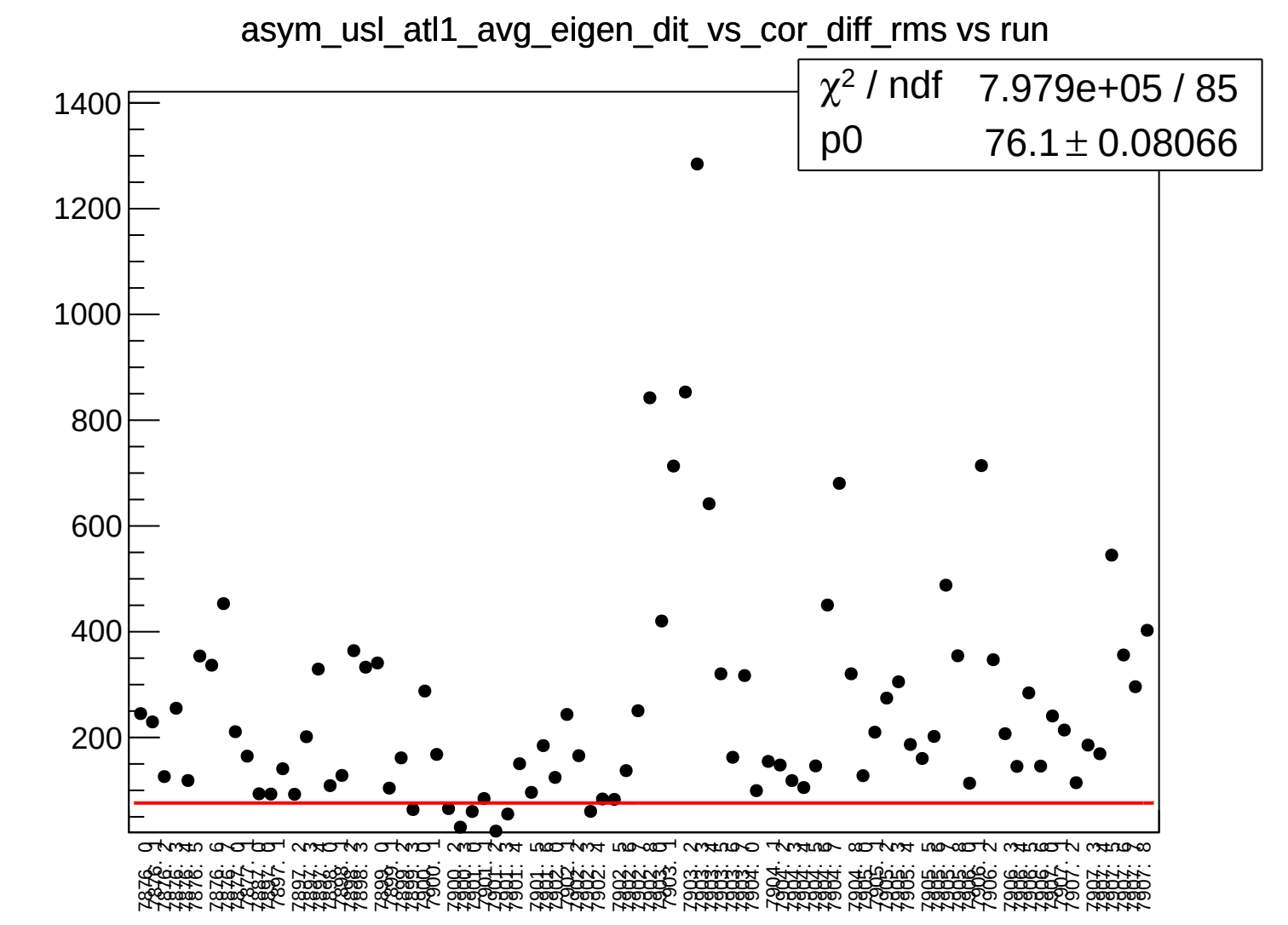

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.979e+05 / 85
p0 76.1 ± 0.08066
1400
1200
1000
800
600
400
200

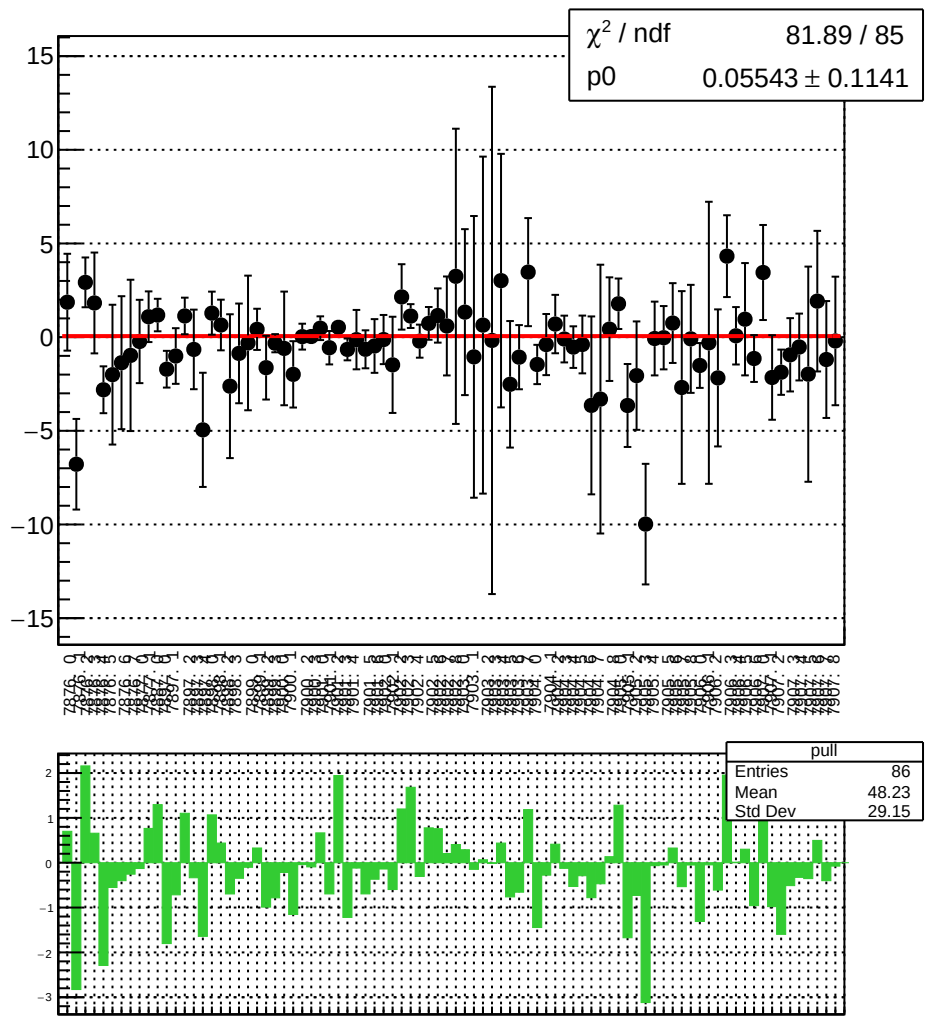

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.19 / 85
p0 −2.865e−08 ± 1.188e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −31.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

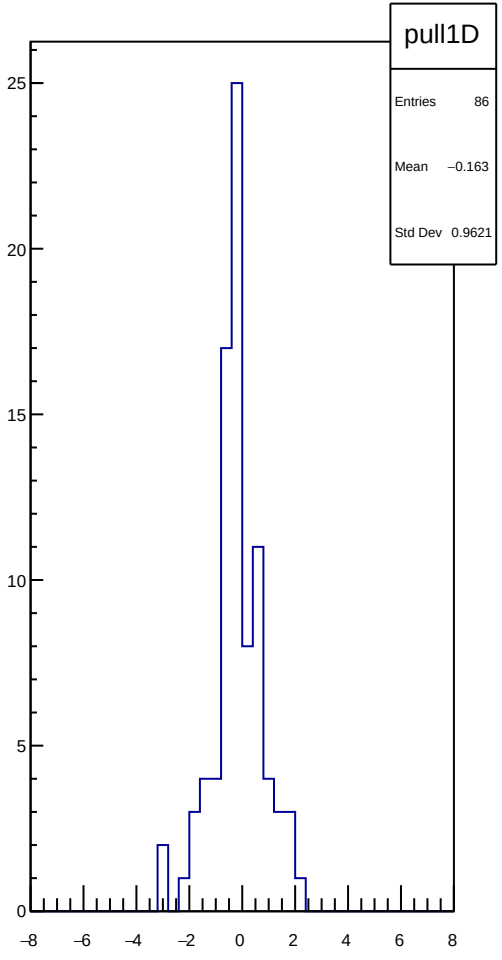

pull1D
Entries 86
Mean 0.05025
Std Dev 0.8489
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

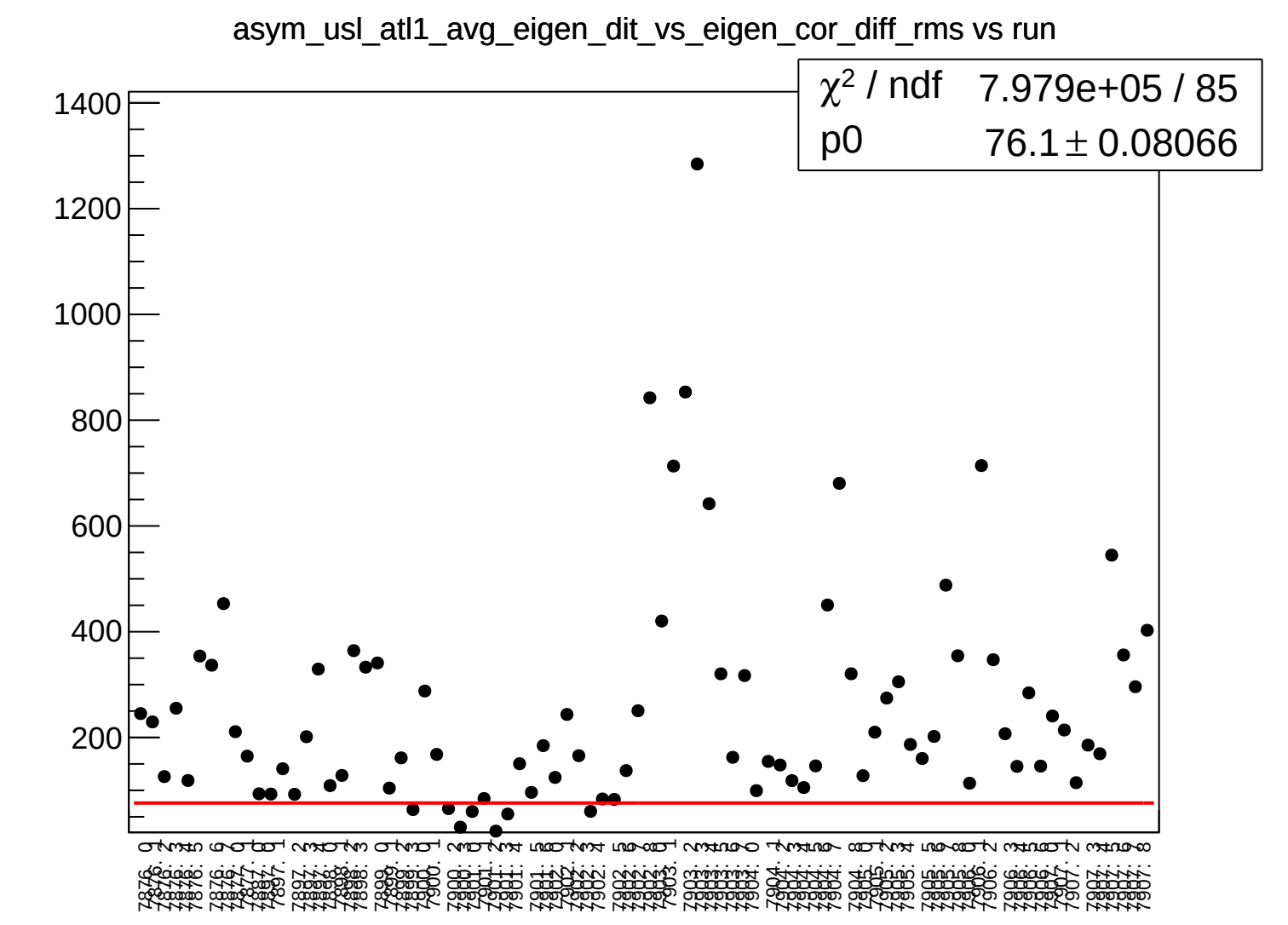

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.421e+05 / 85
p0 0.001044 ± 8.4e−07
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

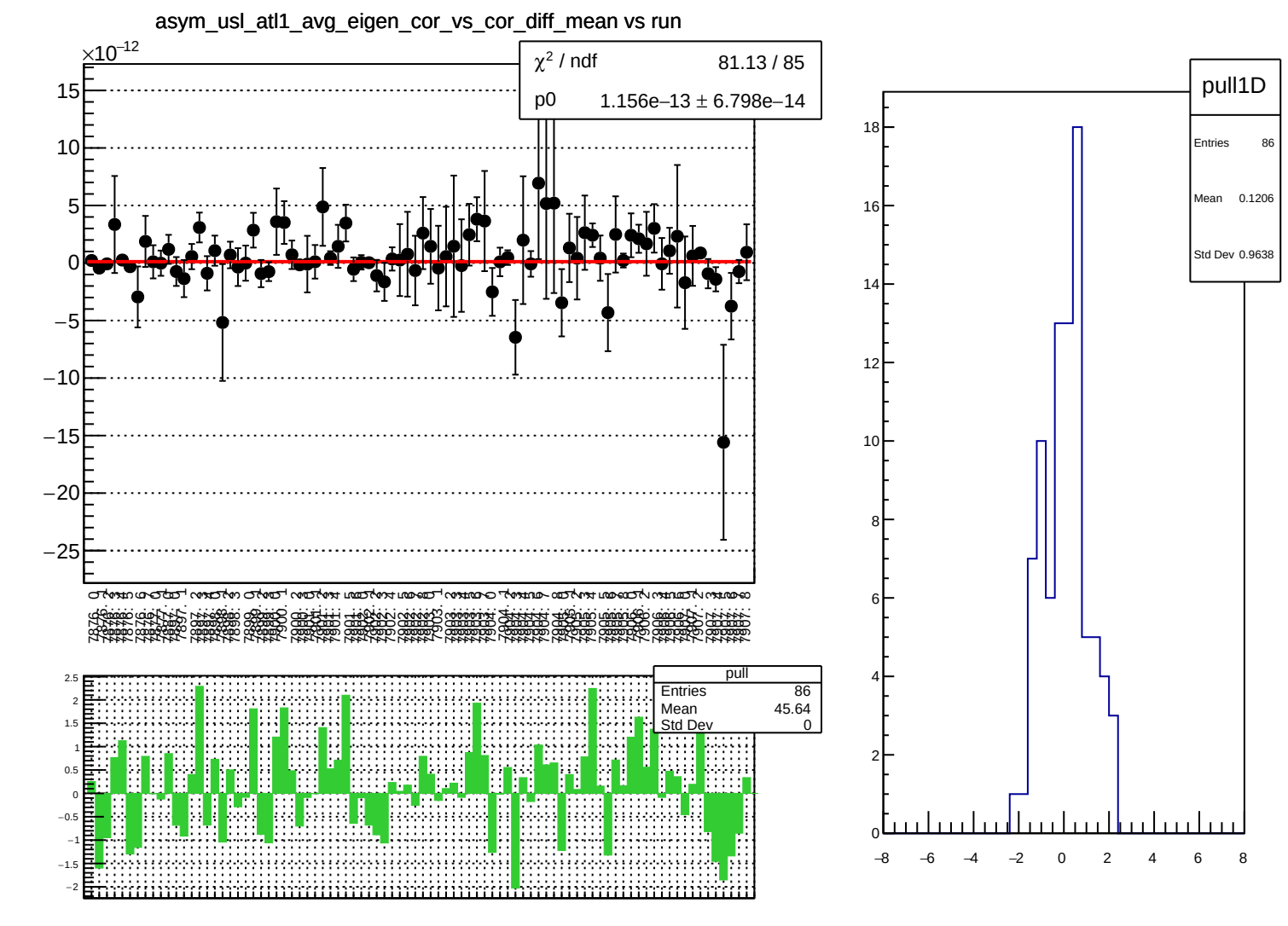

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.89 / 85
p0 0.05543 ± 0.1141
pull
Entries 86
Mean 48.23
Std Dev 29.15
pull1D
Entries 86
Mean −0.163
Std Dev 0.9621

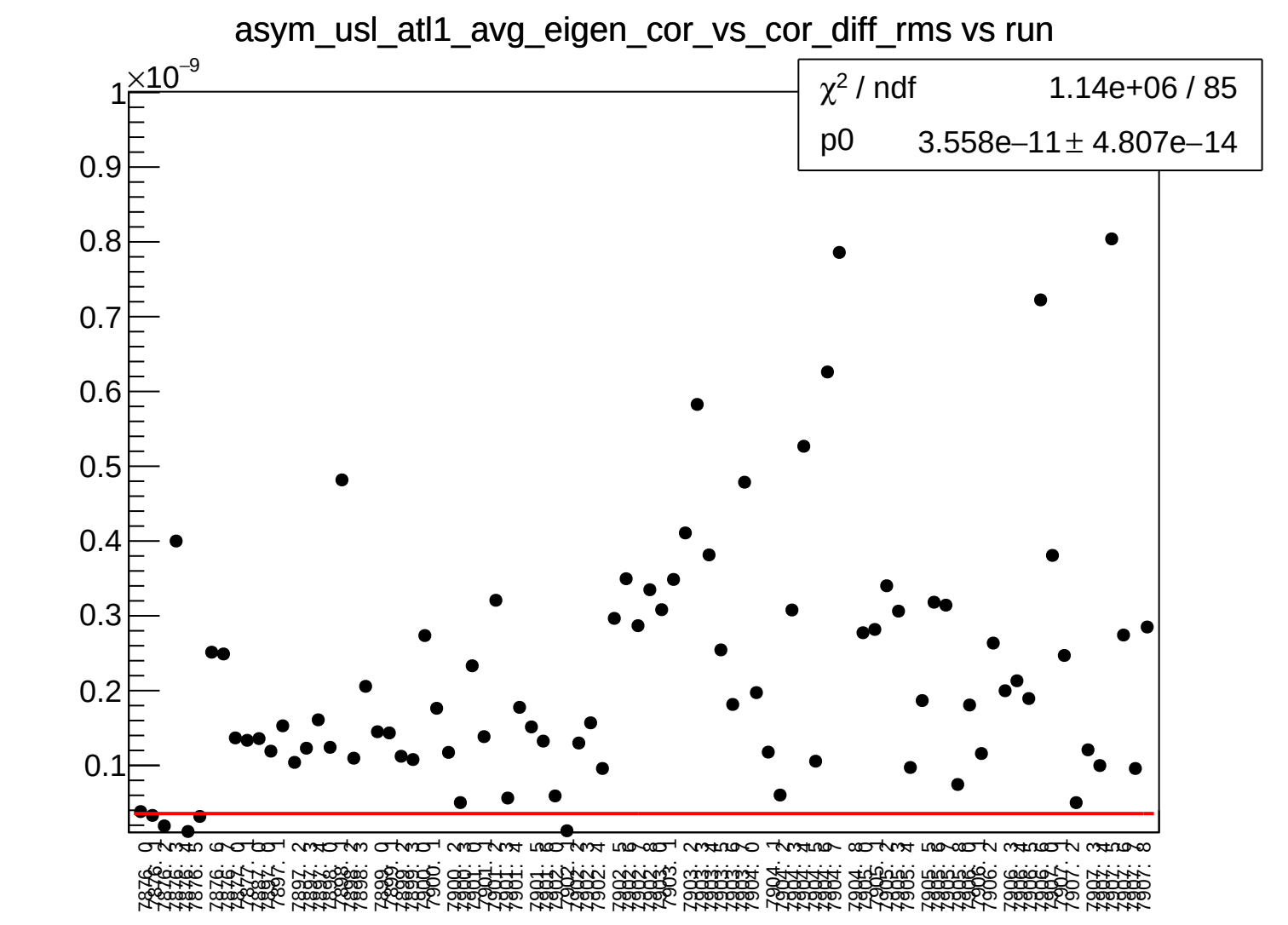

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.979e+05 / 85
p0 76.1 ± 0.08066
1400
1200
1000
800
600
400
200

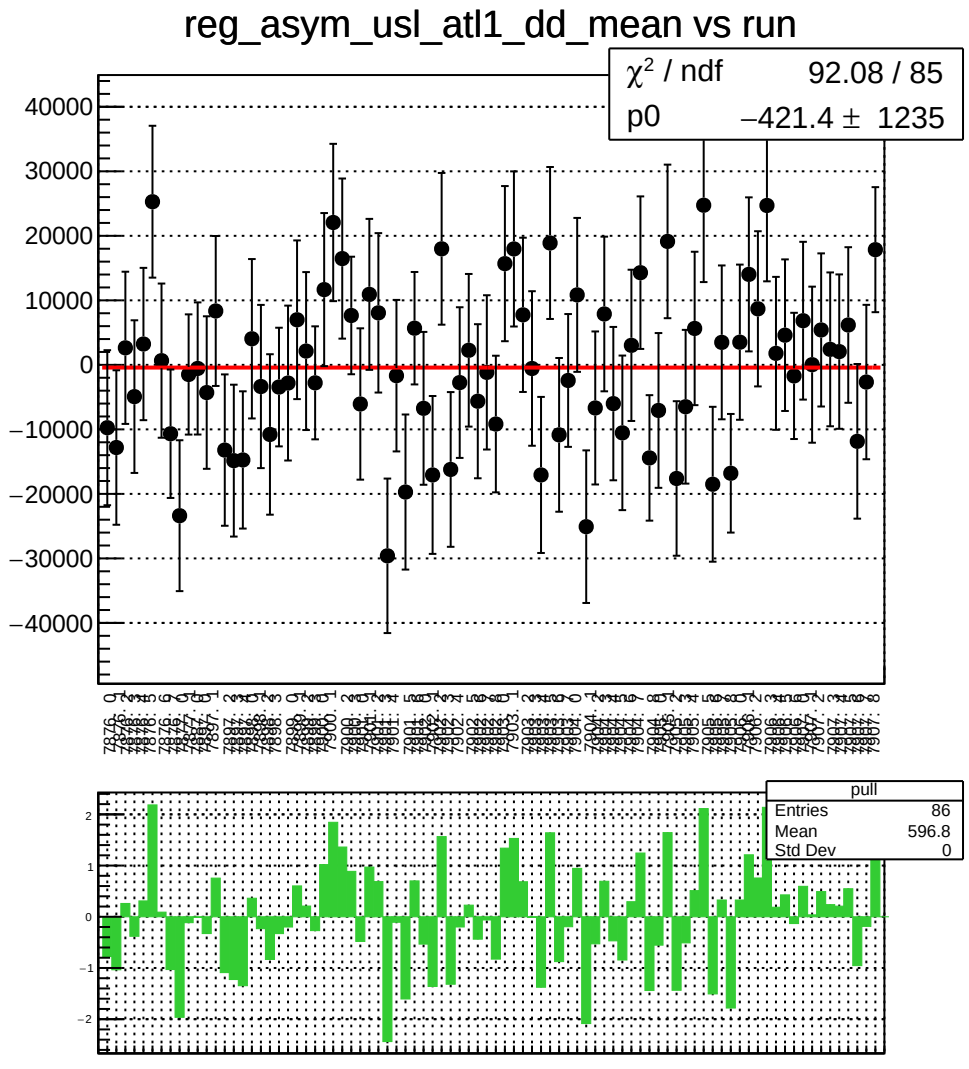

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.89 / 85
p0 0.05543 ± 0.1141
pull
Entries 86
Mean 48.23
Std Dev 29.15

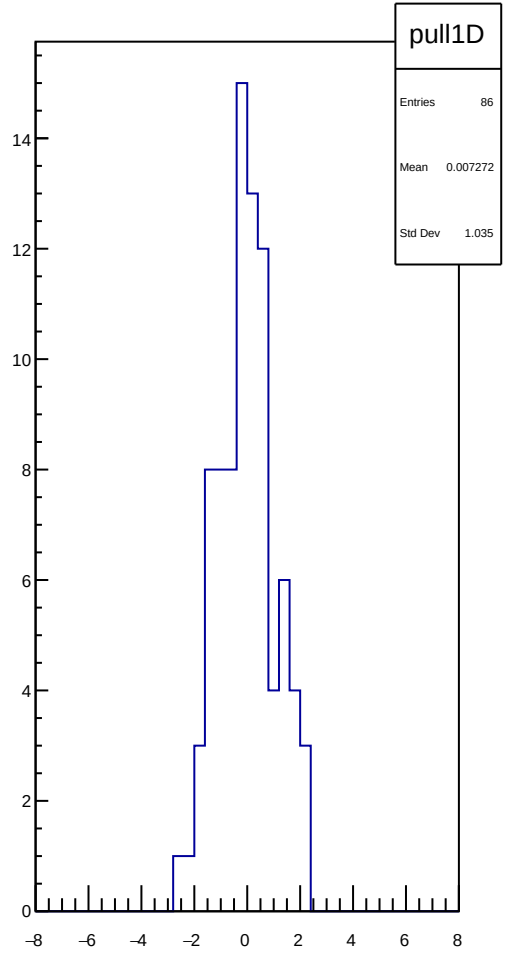

pull1D
Entries 86
Mean −0.163
Std Dev 0.9621

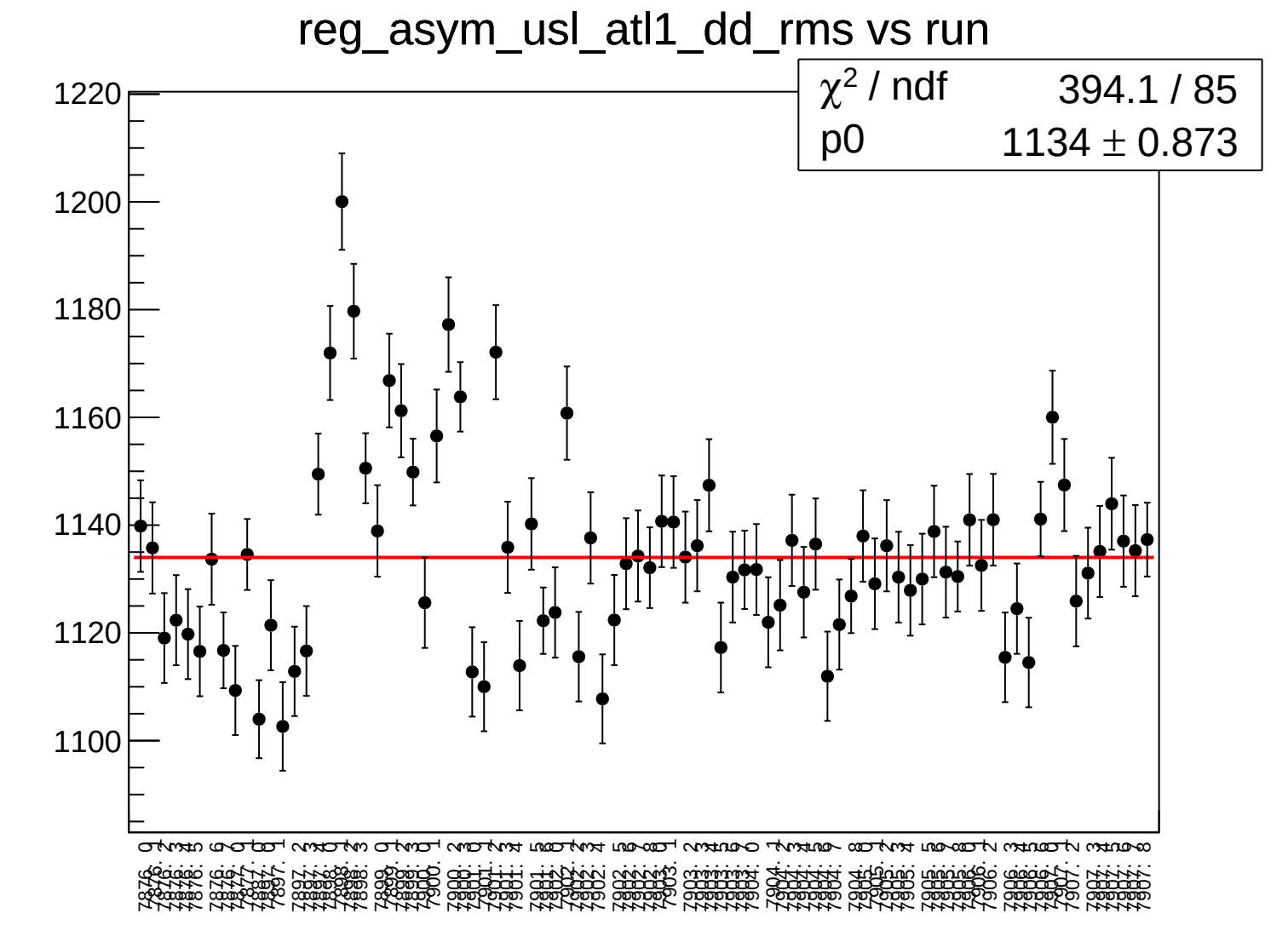

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.979e+05 / 85
p0 76.1 ± 0.08066
1400
1200
1000
800
600
400
200

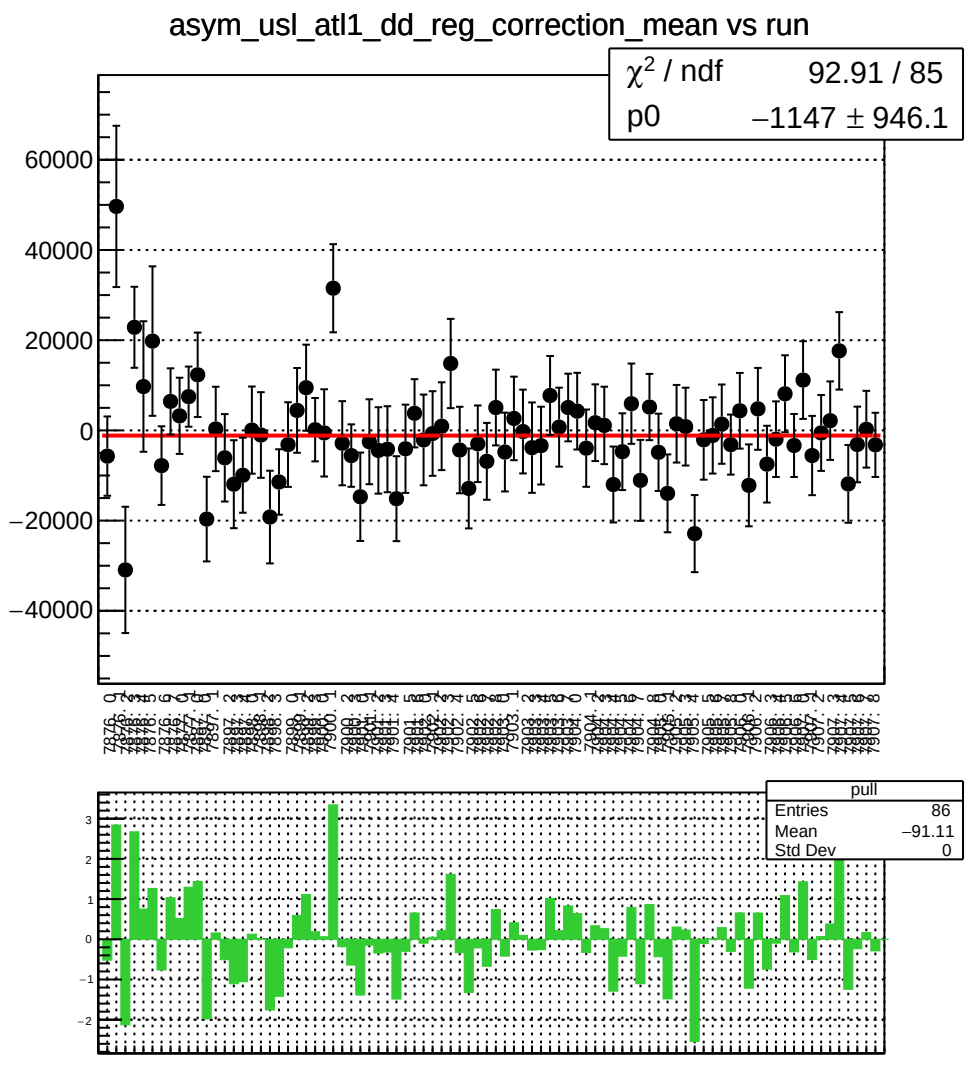

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.13 / 85
p0 1.156e−13 ± 6.798e−14
pull
Entries 86
Mean 45.64
Std Dev 0
pull1D
Entries 86
Mean 0.1206
Std Dev 0.9638

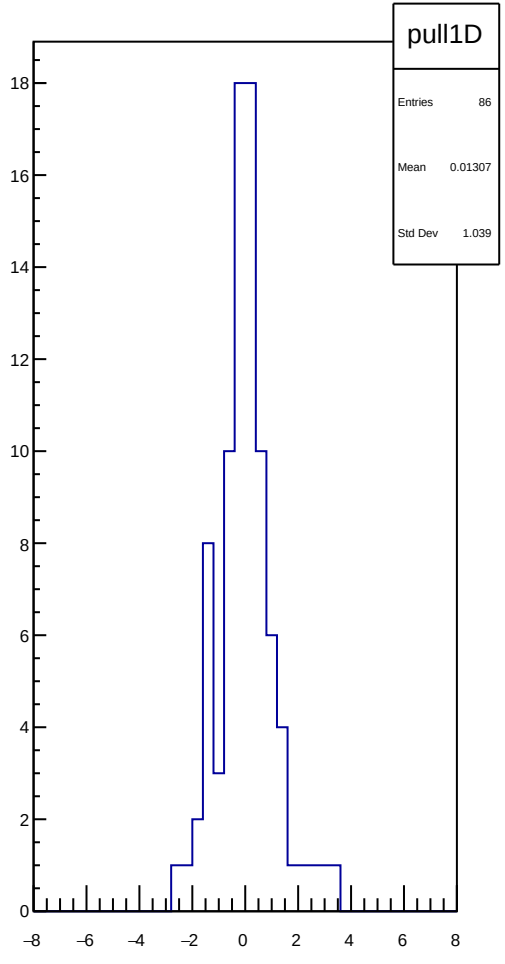

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.14e+06 / 85
p0 3.558e−11 ± 4.807e−14
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

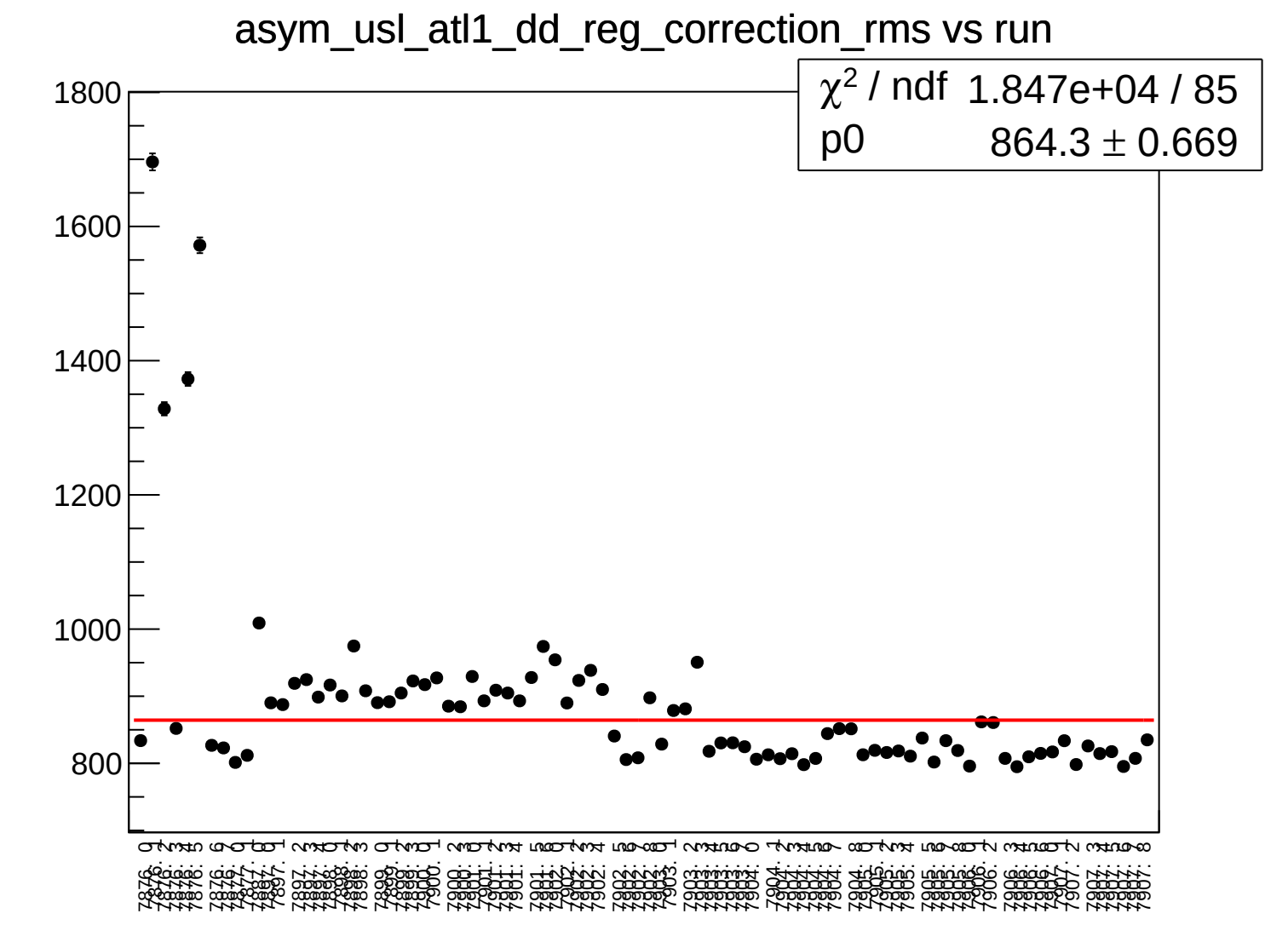

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 92.08 / 85
p0 −421.4 ± 1235
pull
Entries 86
Mean 596.8
Std Dev 0

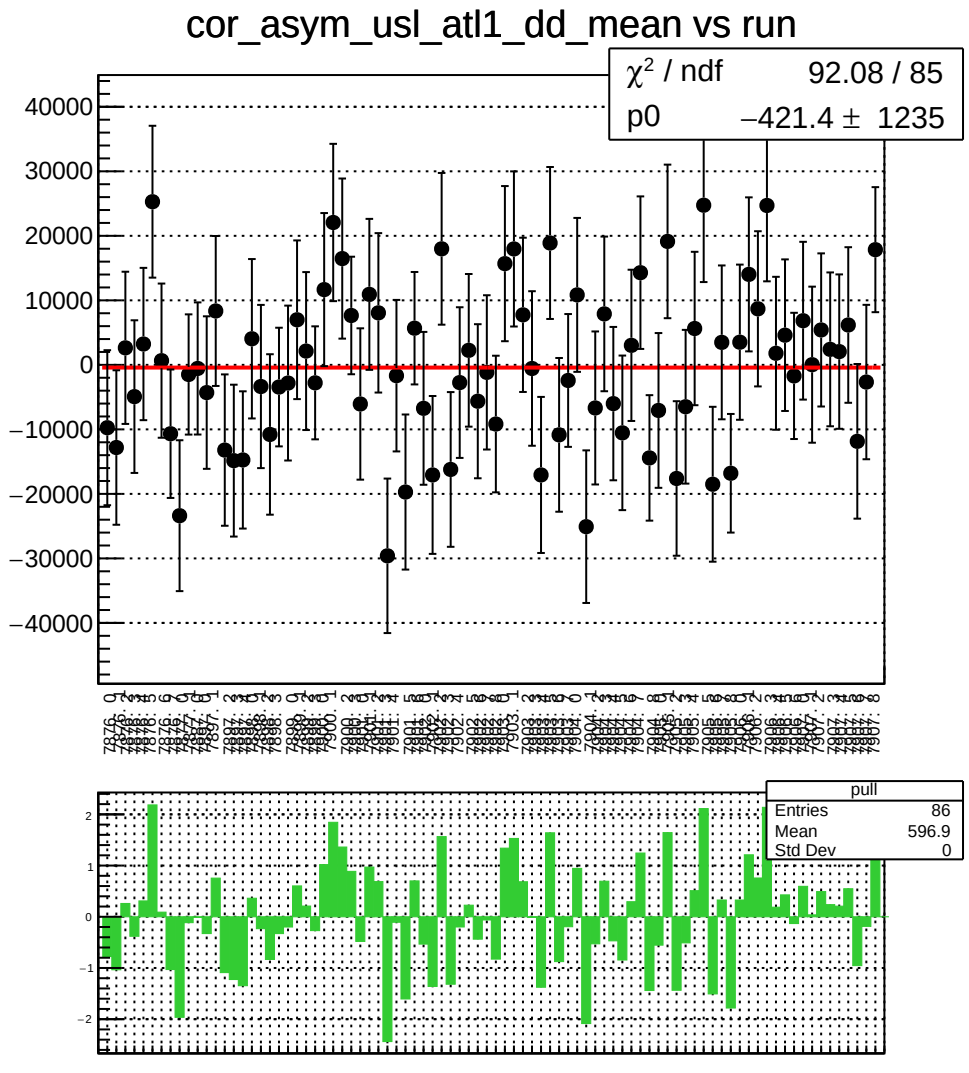

pull1D
Entries 86
Mean 0.007272
Std Dev 1.035

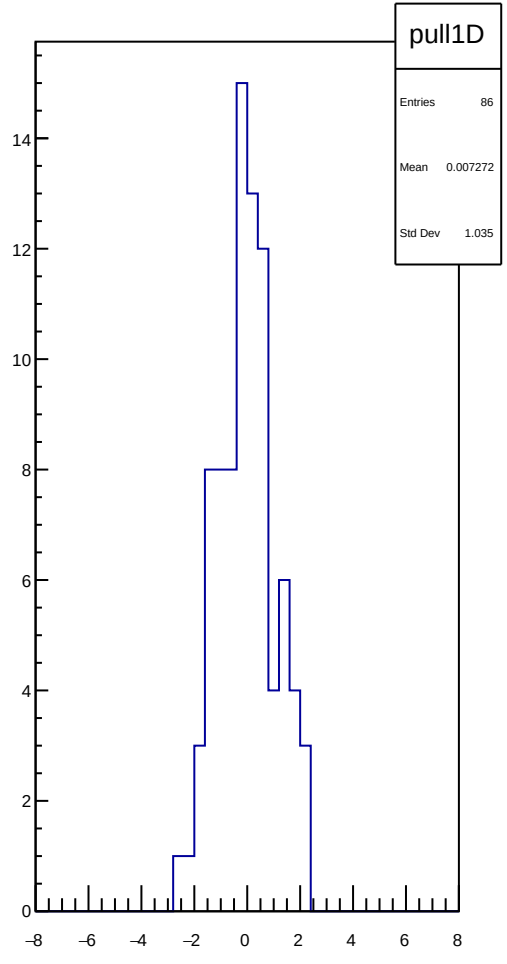

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 394.1 / 85
p0 1134 ± 0.873
1220
1200
1180
1160
1140
1120
1100

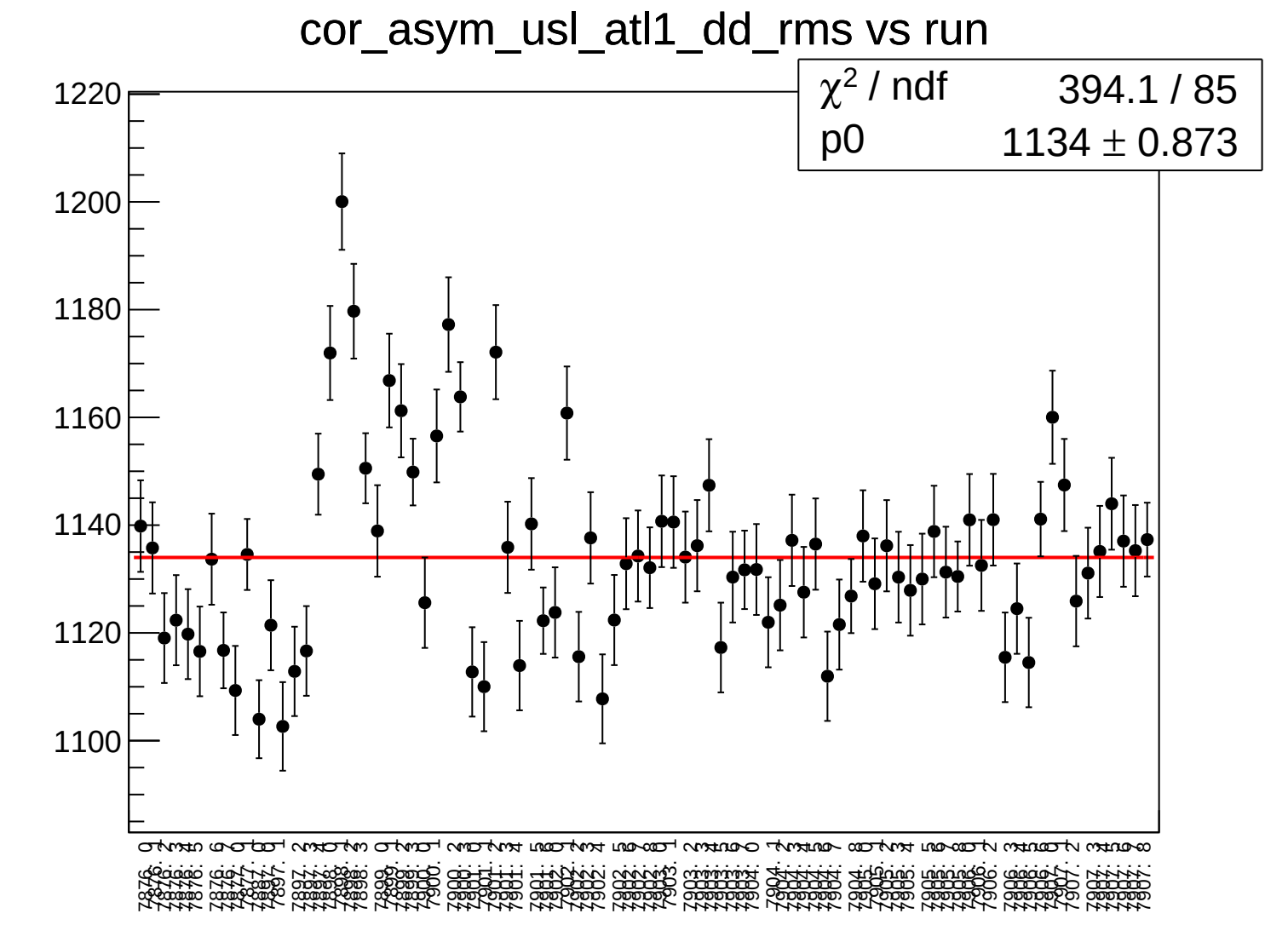

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 92.91 / 85
p0 −1147 ± 946.1
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −91.11
Std Dev 0
3
2
1
0
−1
−2

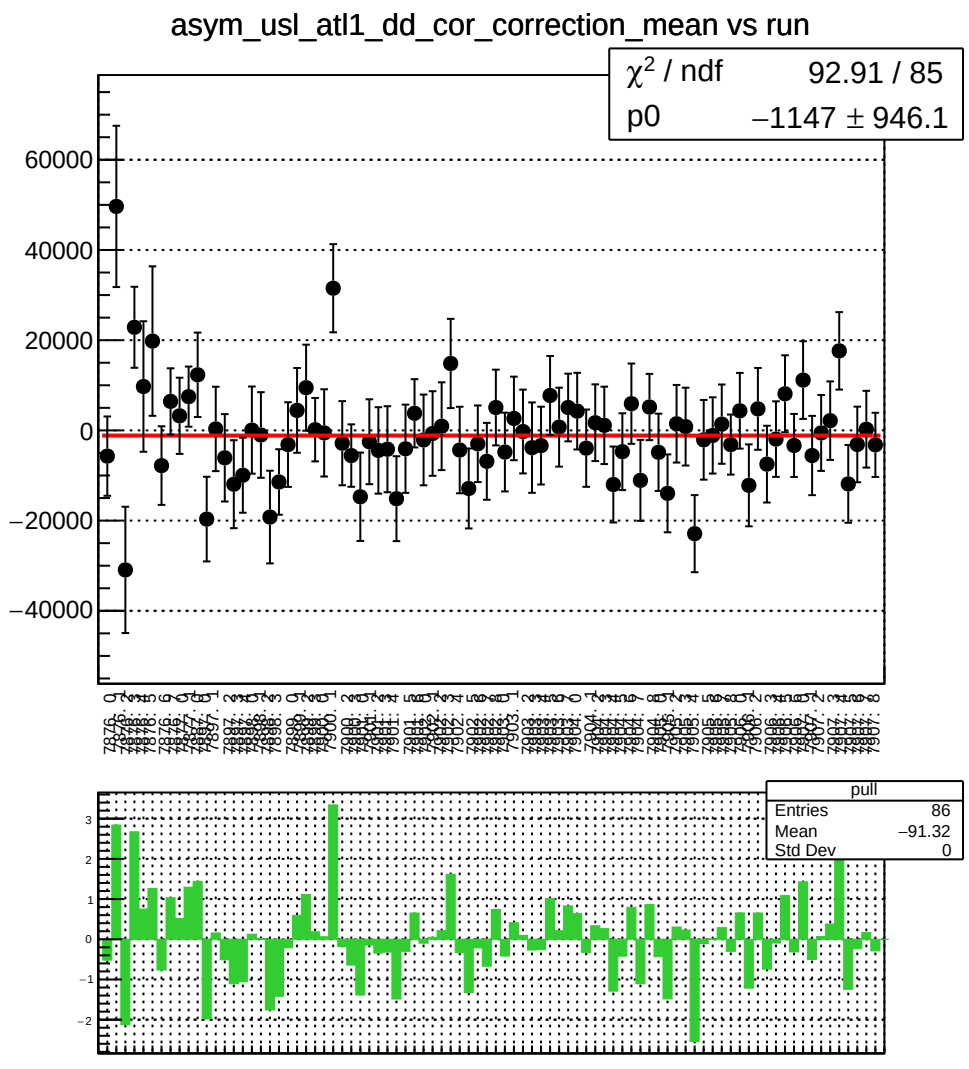

pull1D
Entries 86
Mean 0.01307
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

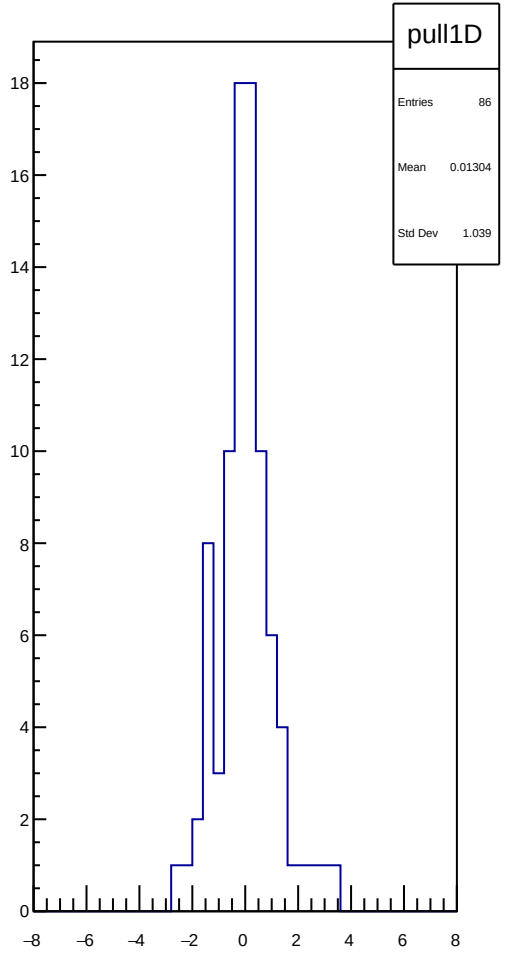

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.847e+04 / 85
p0 864.3 ± 0.669
1800
1600
1400
1200
1000
800


cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 92.08 / 85
p0 −421.4 ± 1235
pull
Entries 86
Mean 596.9
Std Dev 0


pull1D
Entries 86
Mean 0.007272
Std Dev 1.035


cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 394.1 / 85
p0 1134 ± 0.873
1220
1200
1180
1160
1140
1120
1100


asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 92.91 / 85
p0 −1147 ± 946.1
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −91.32
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.01304
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
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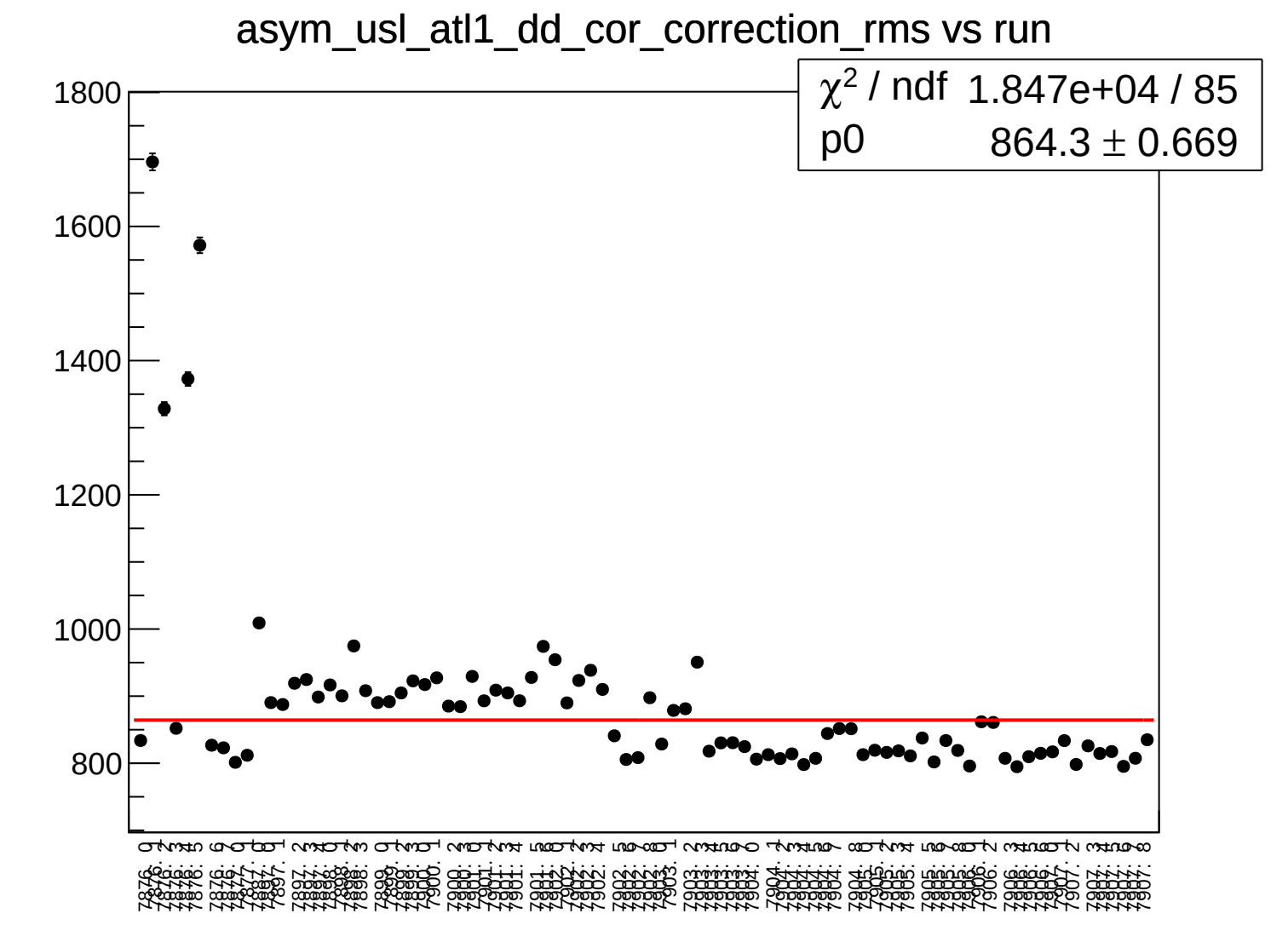
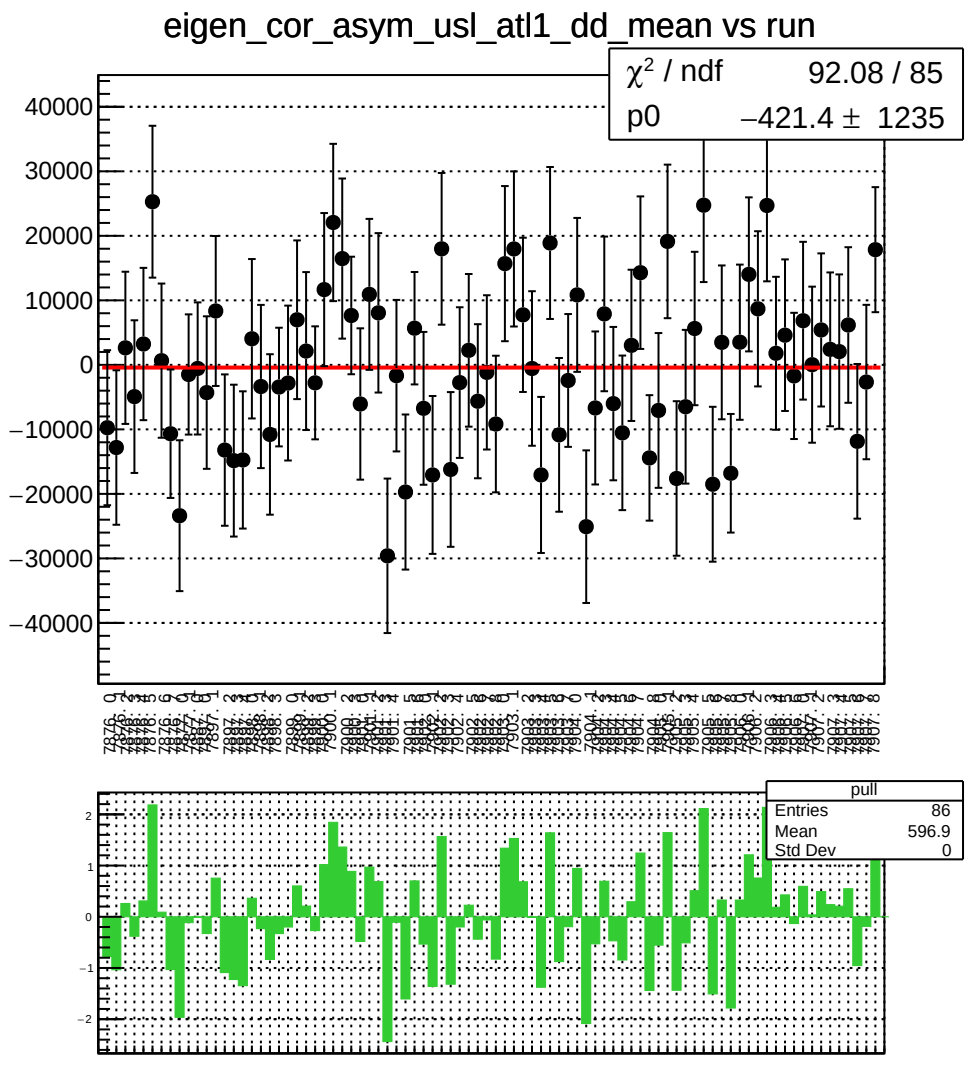
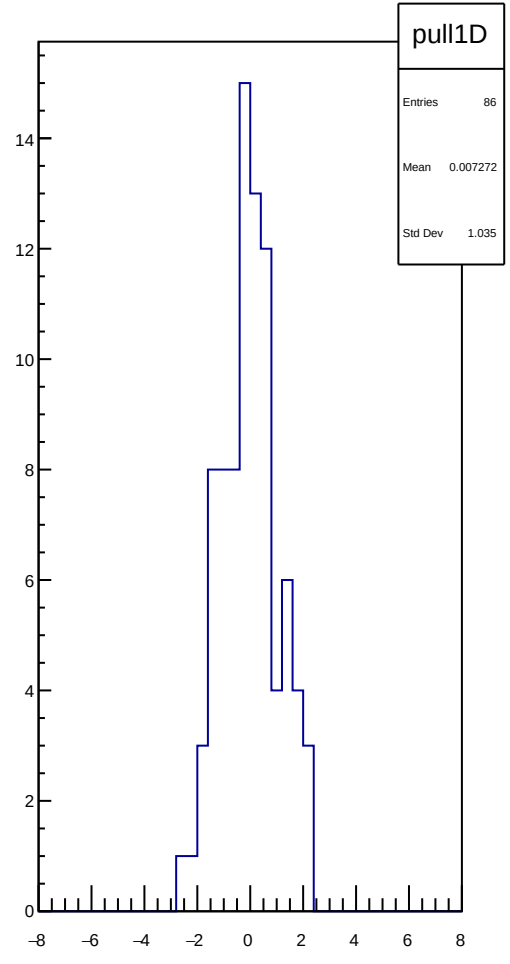
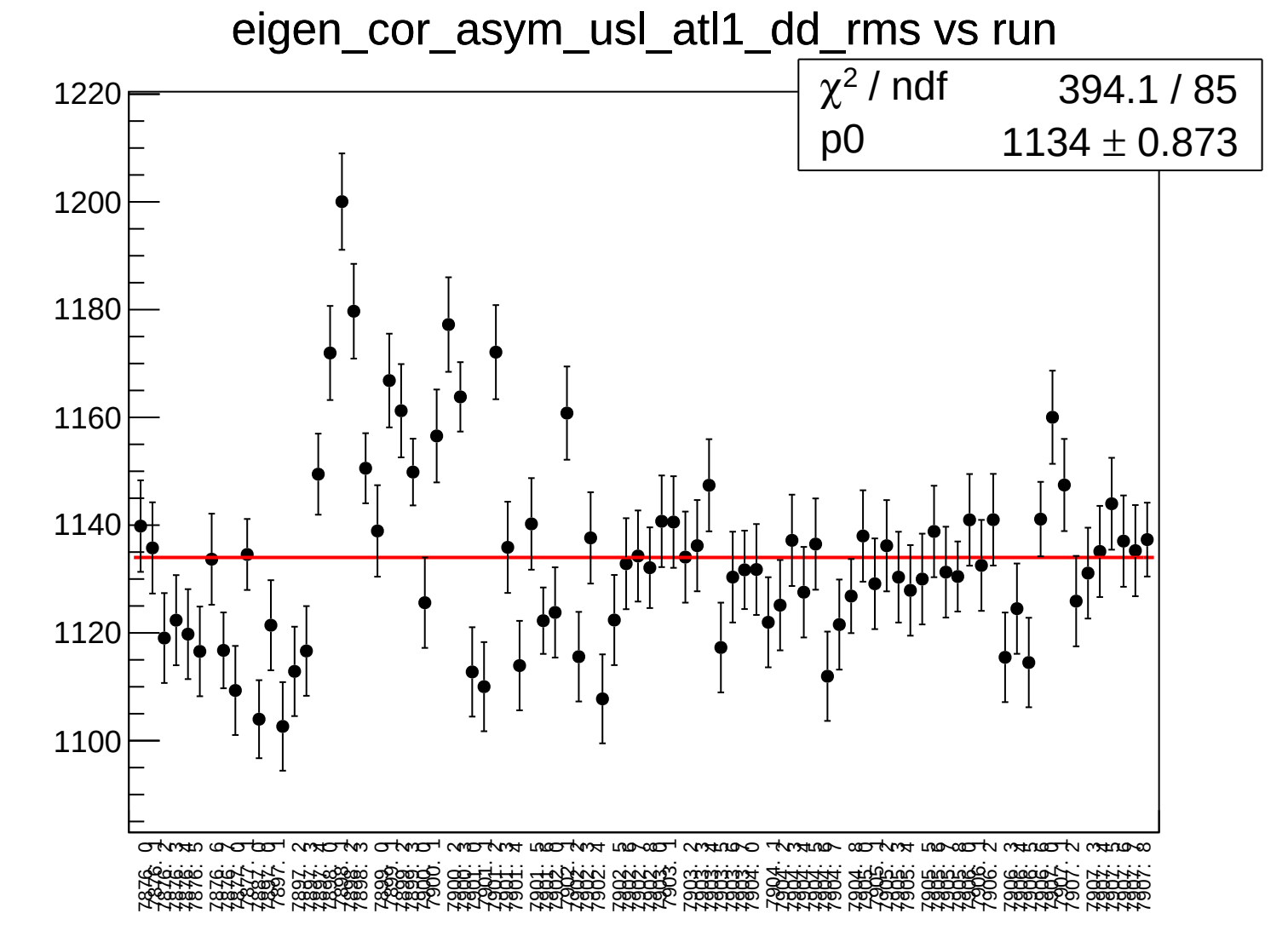
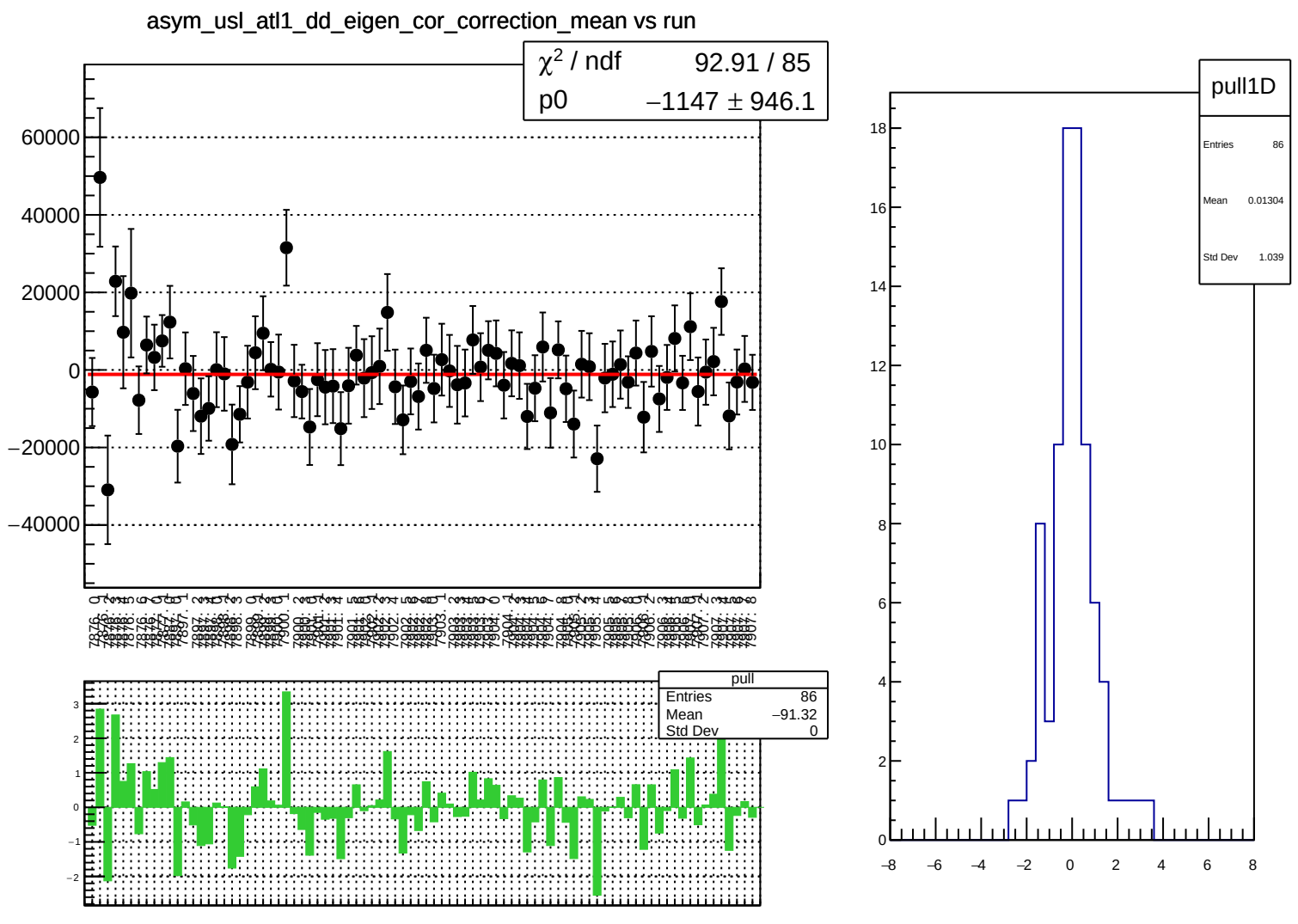
2
4
6
8

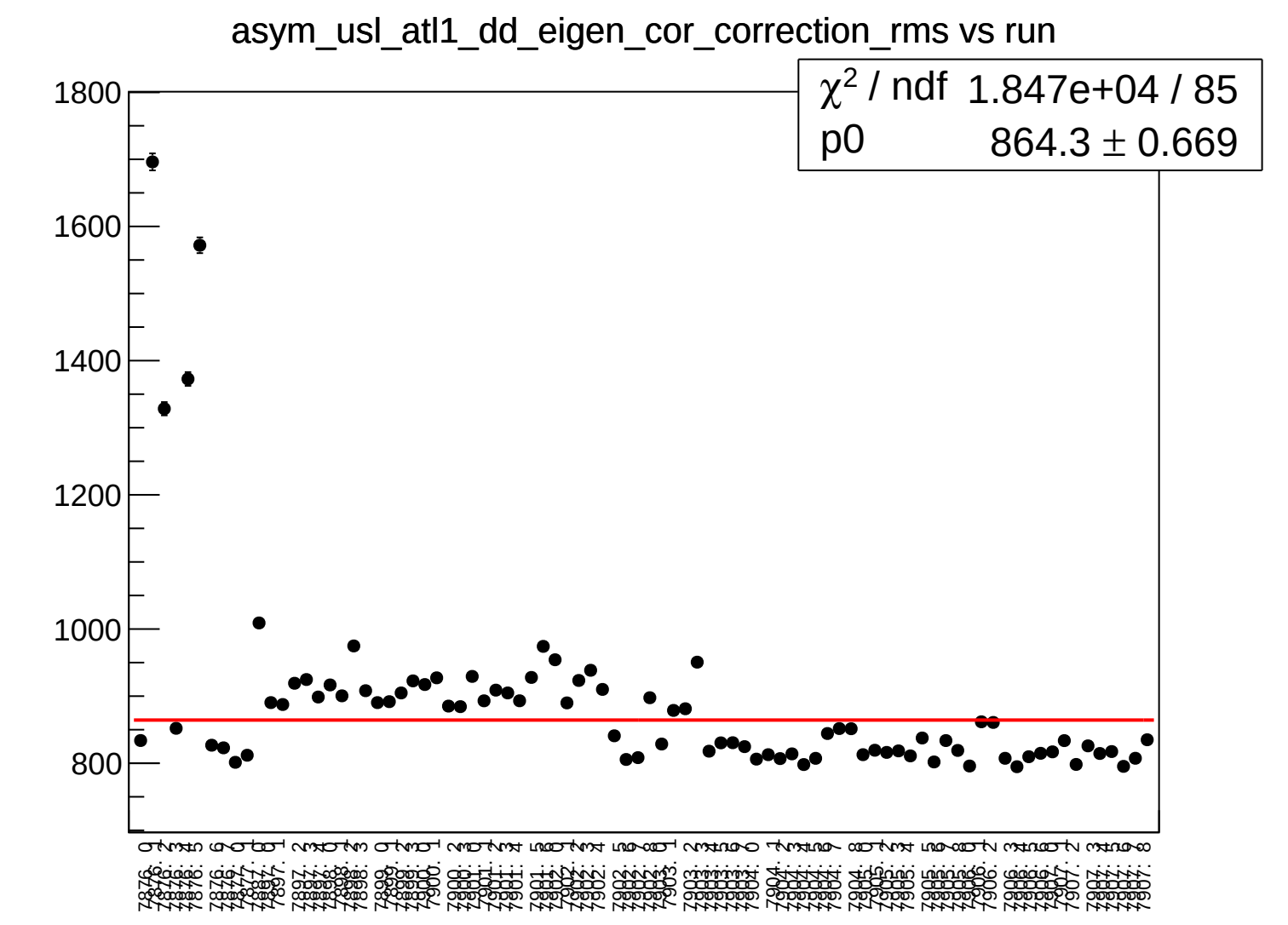

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.847e+04 / 85
p0 864.3 ± 0.669
1800
1600
1400
1200
1000
800

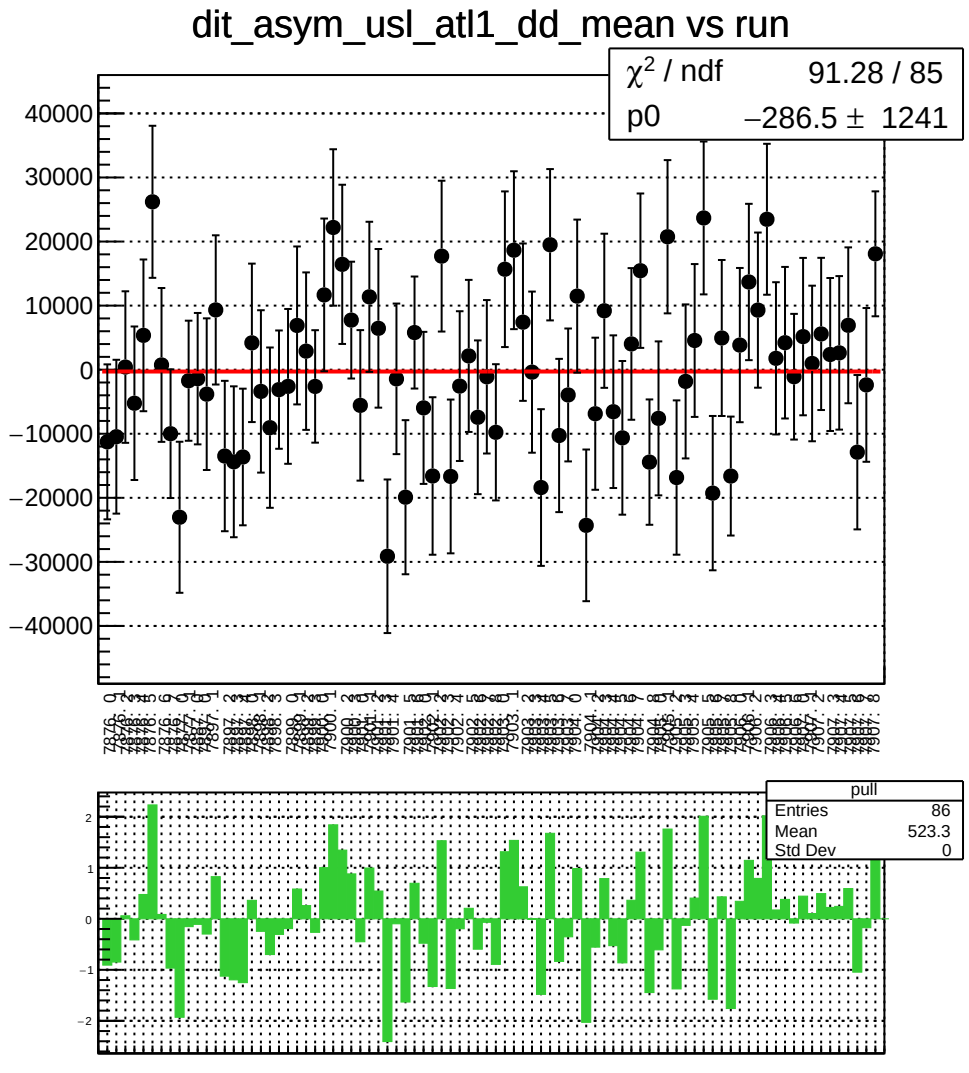

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 92.08 / 85
p0 −421.4 ± 1235
pull
Entries 86
Mean 596.9
Std Dev 0

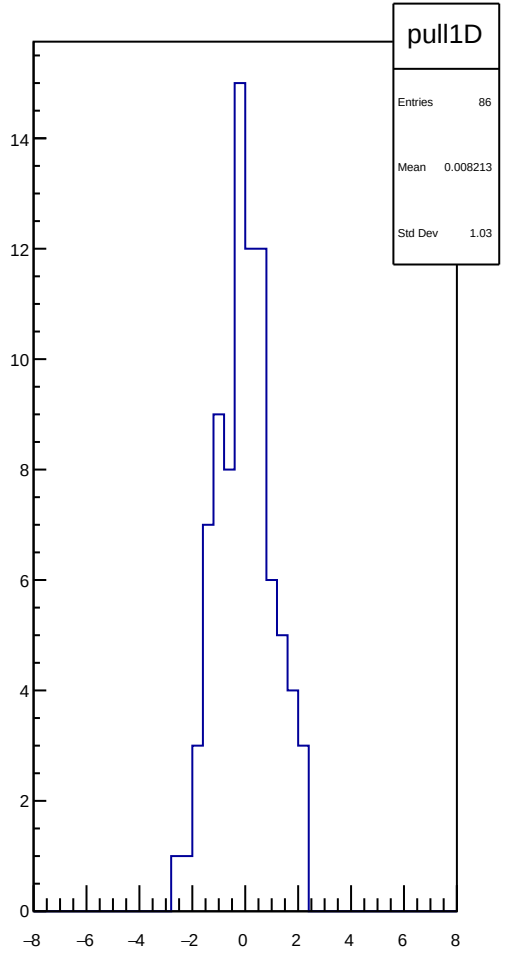

pull1D
Entries 86
Mean 0.007272
Std Dev 1.035


eigen_cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 394.1 / 85
p0 1134 ± 0.873
1220
1200
1180
1160
1140
1120
1100


asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.91 / 85
p0 −1147 ± 946.1
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −91.32
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01304
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.847e+04 / 85
p0 864.3 ± 0.669
1800
1600
1400
1200
1000
800


dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 91.28 / 85
p0 −286.5 ± 1241
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 523.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.008213
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
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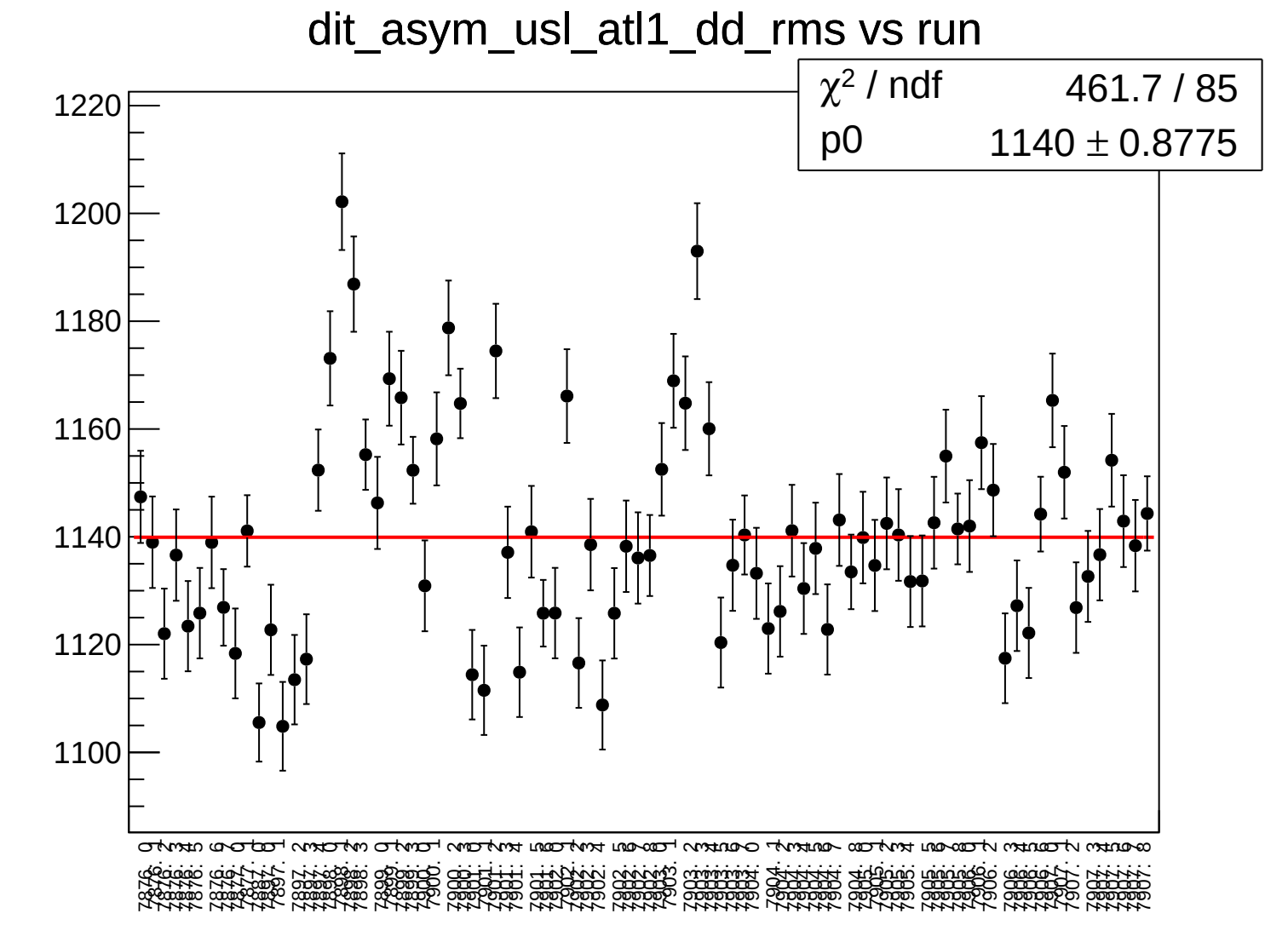
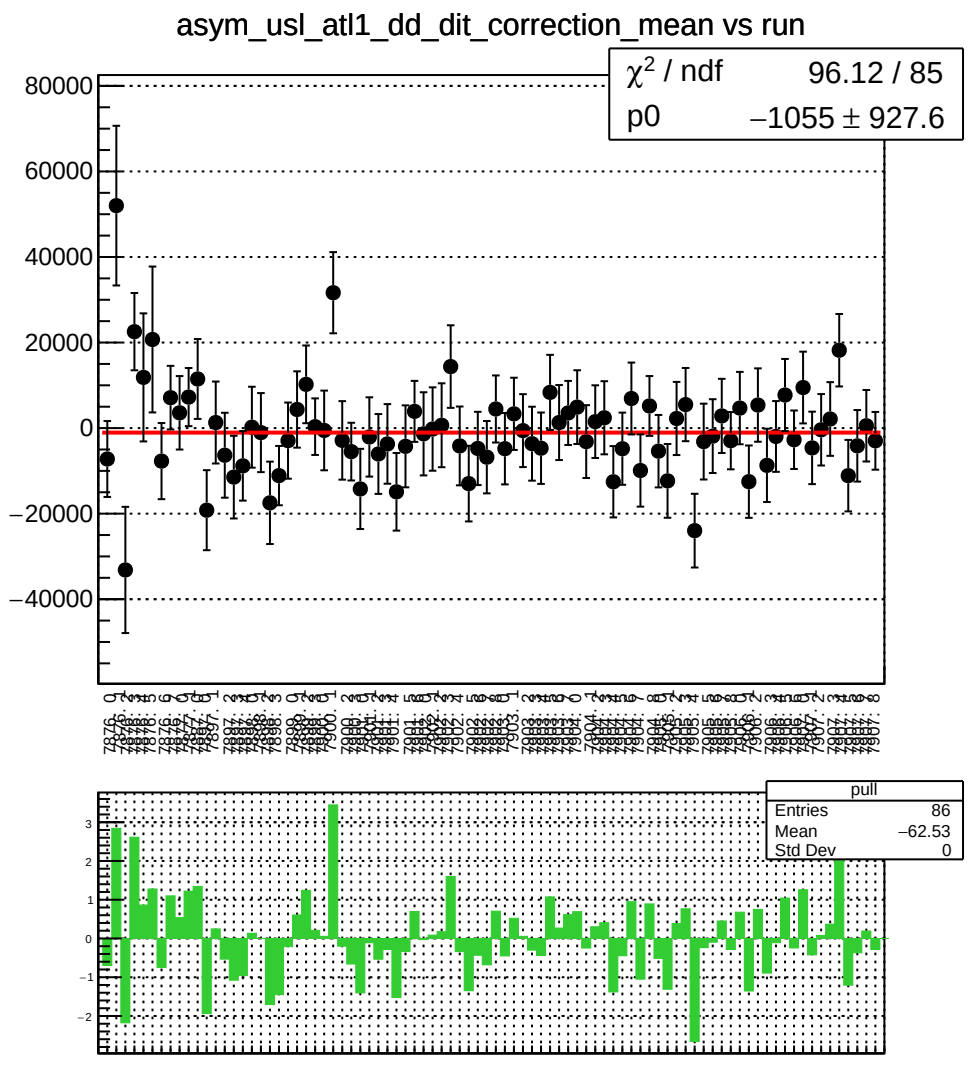
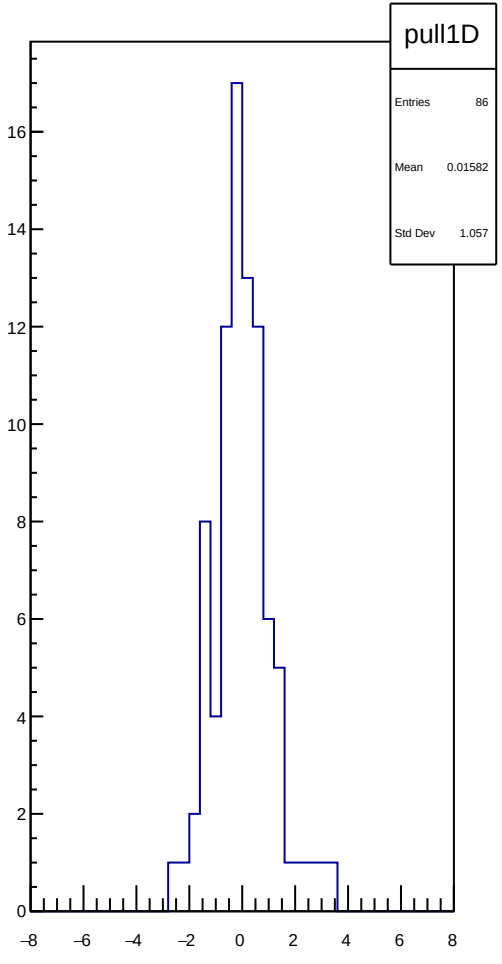
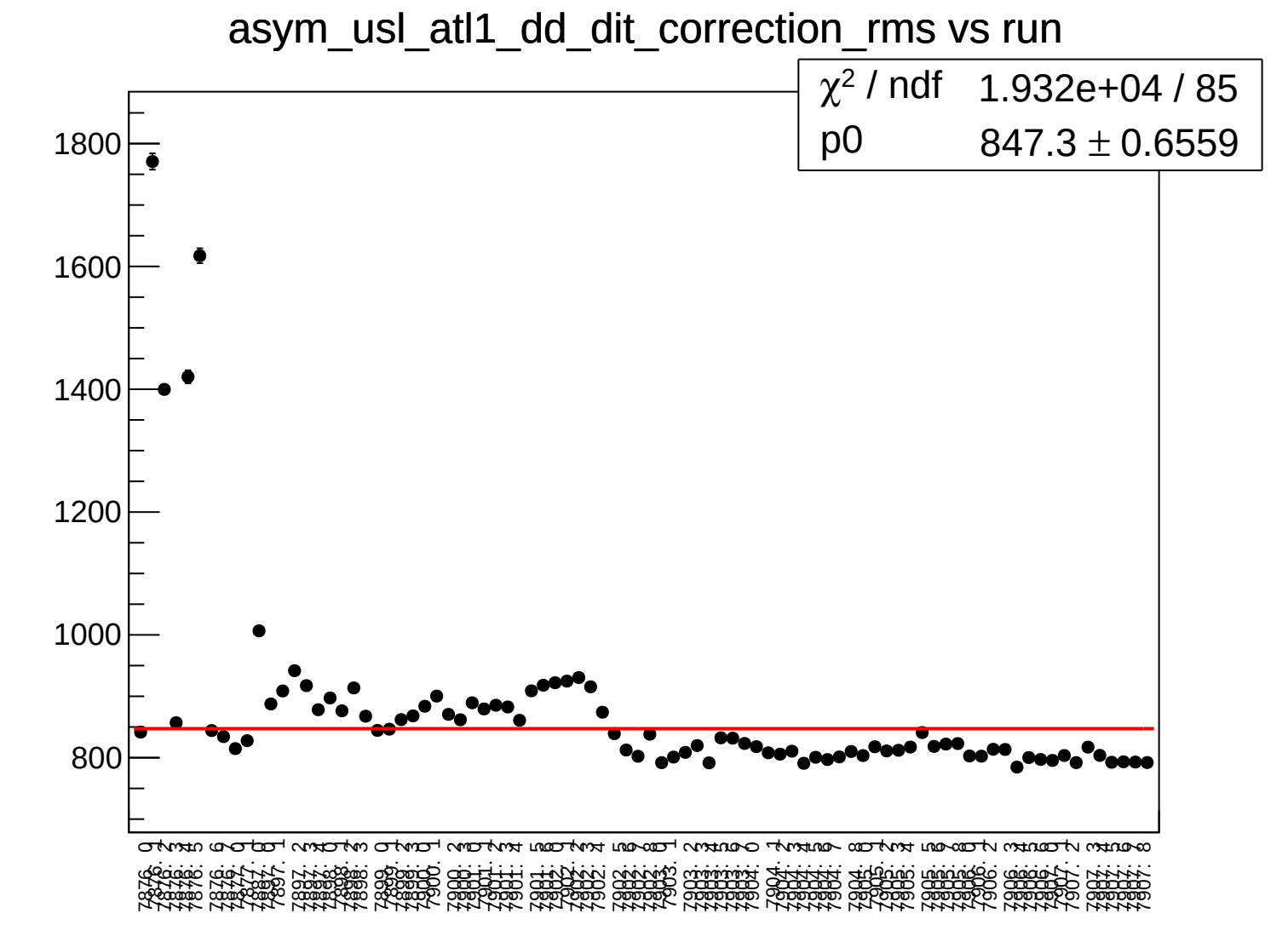
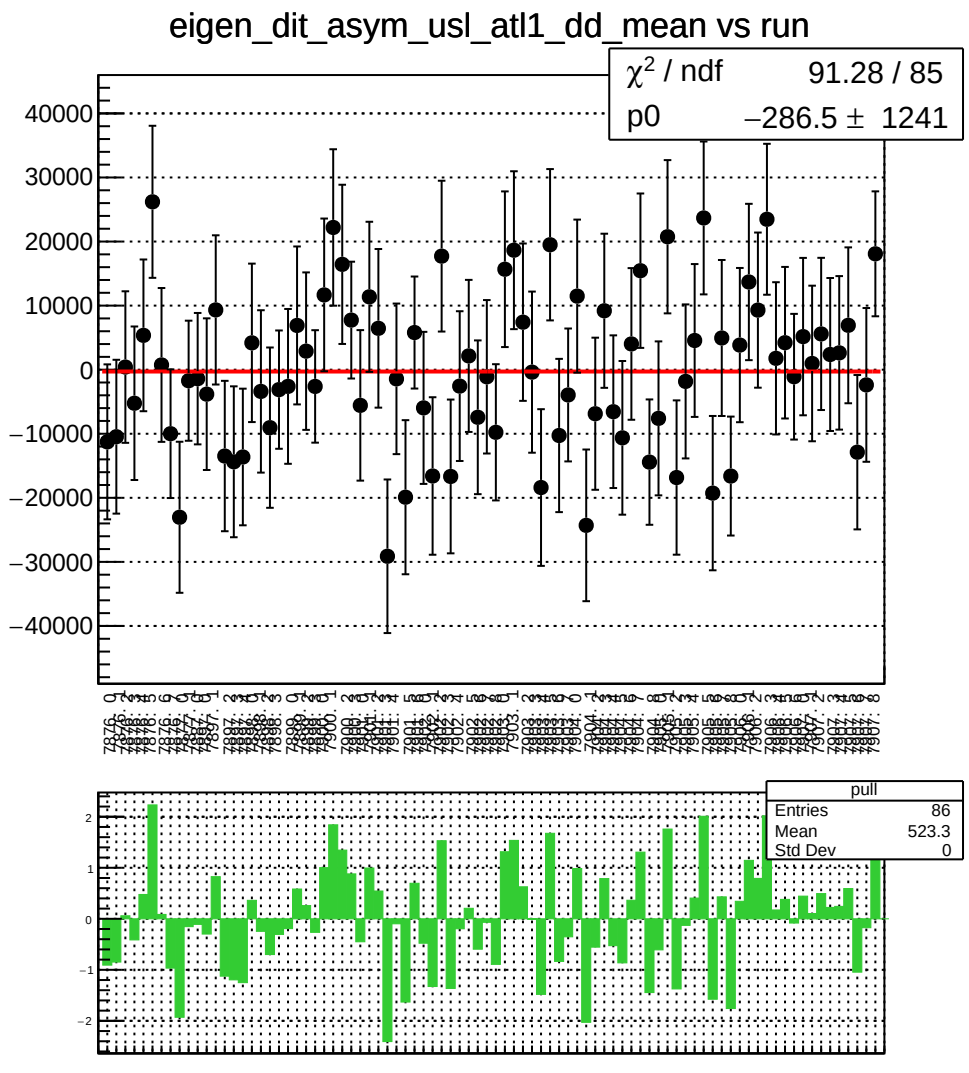
2
4
6
8

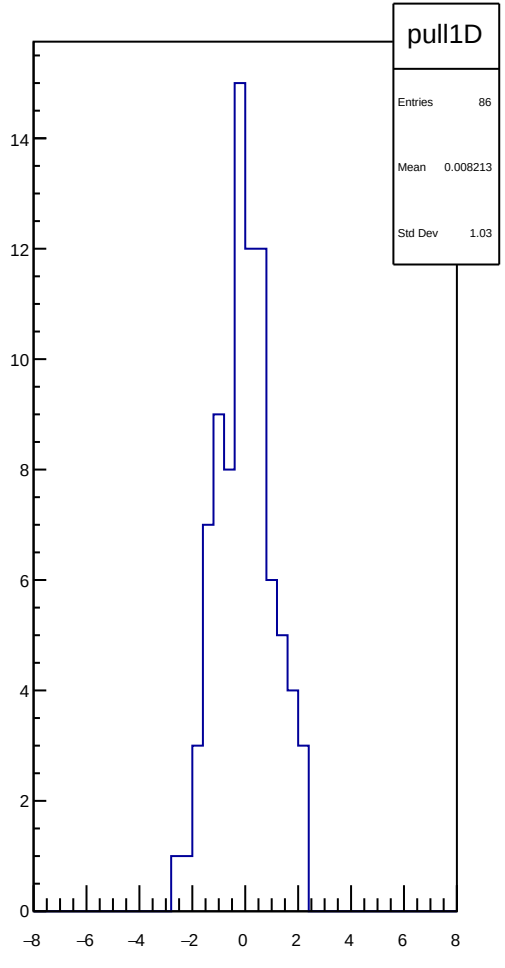

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 461.7 / 85
p0 1140 ± 0.8775
1220
1200
1180
1160
1140
1120
1100

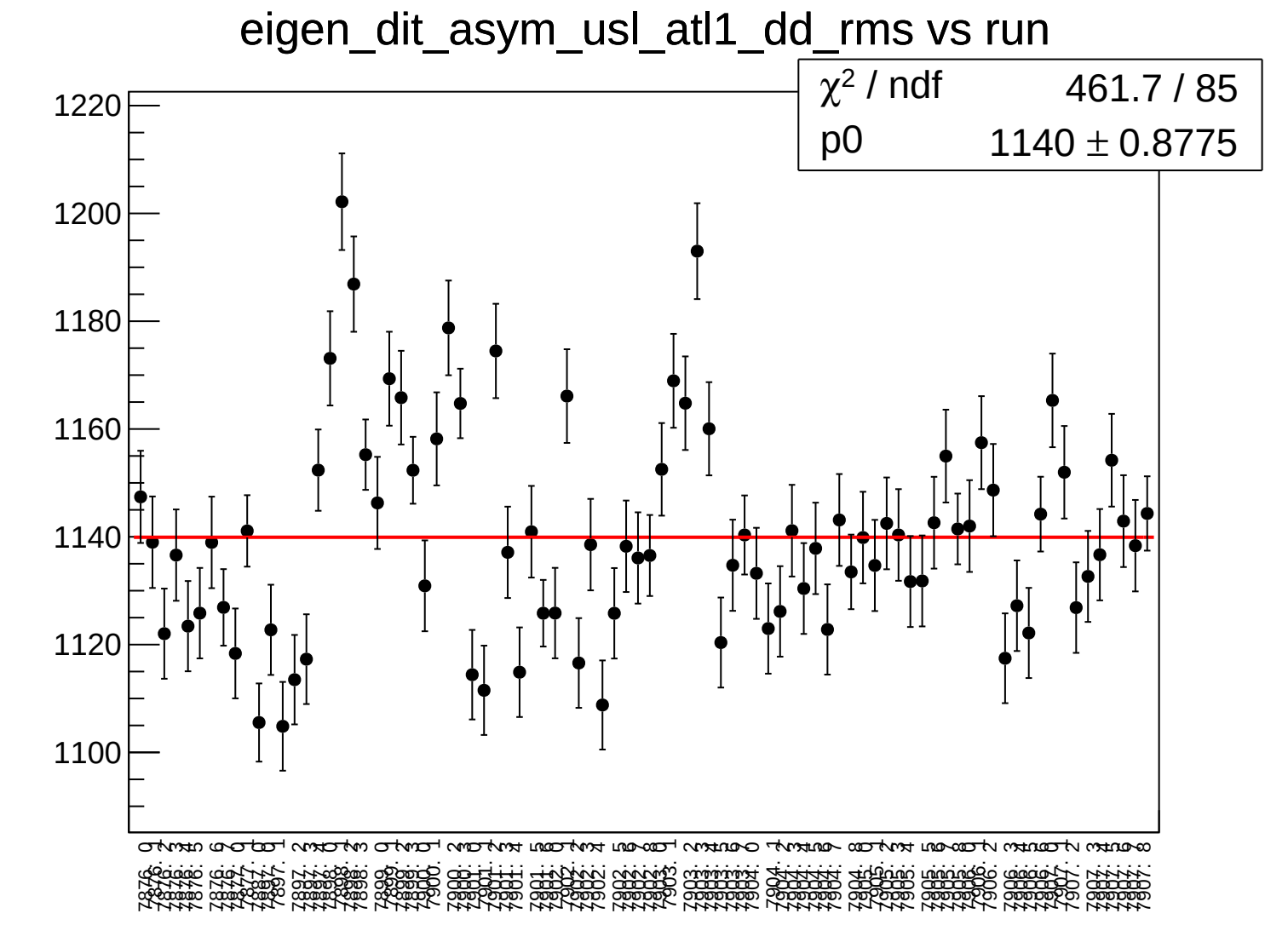

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 96.12 / 85
p0 −1055 ± 927.6
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −62.53
Std Dev 0
3
2
1
0
−1
−2

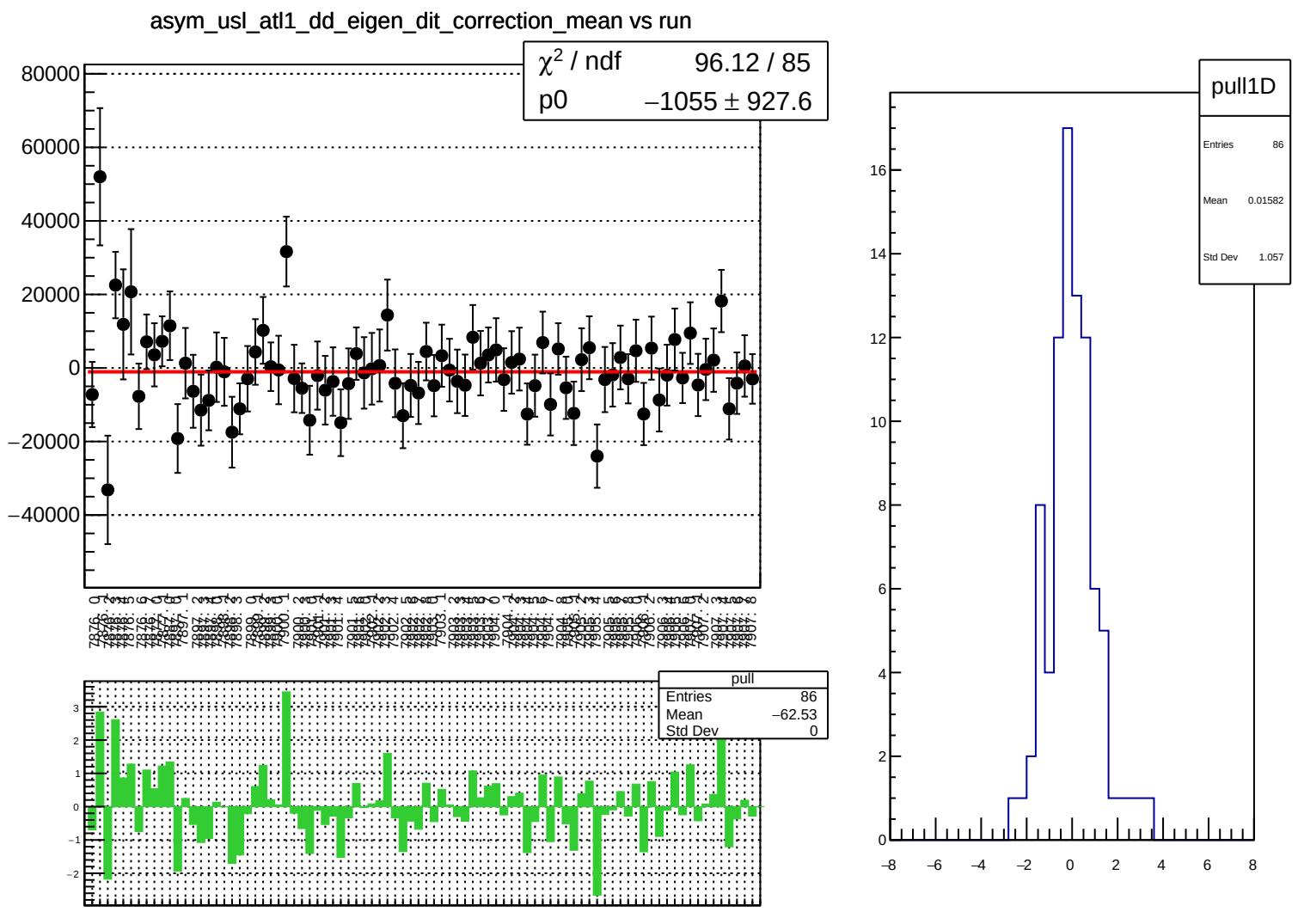

pull1D
Entries 86
Mean 0.01582
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

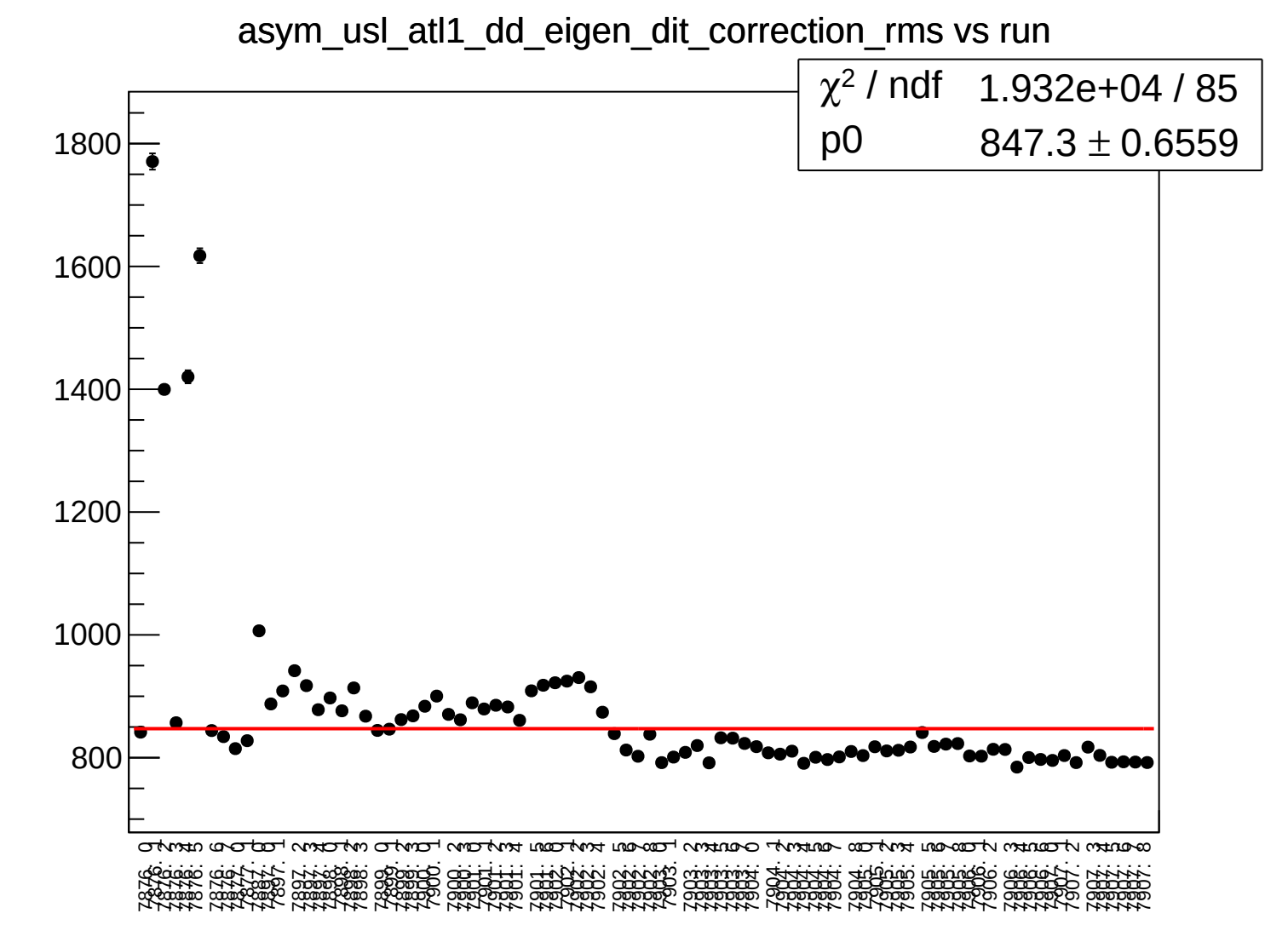

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.932e+04 / 85
p0 847.3 ± 0.6559
1800
1600
1400
1200
1000
800

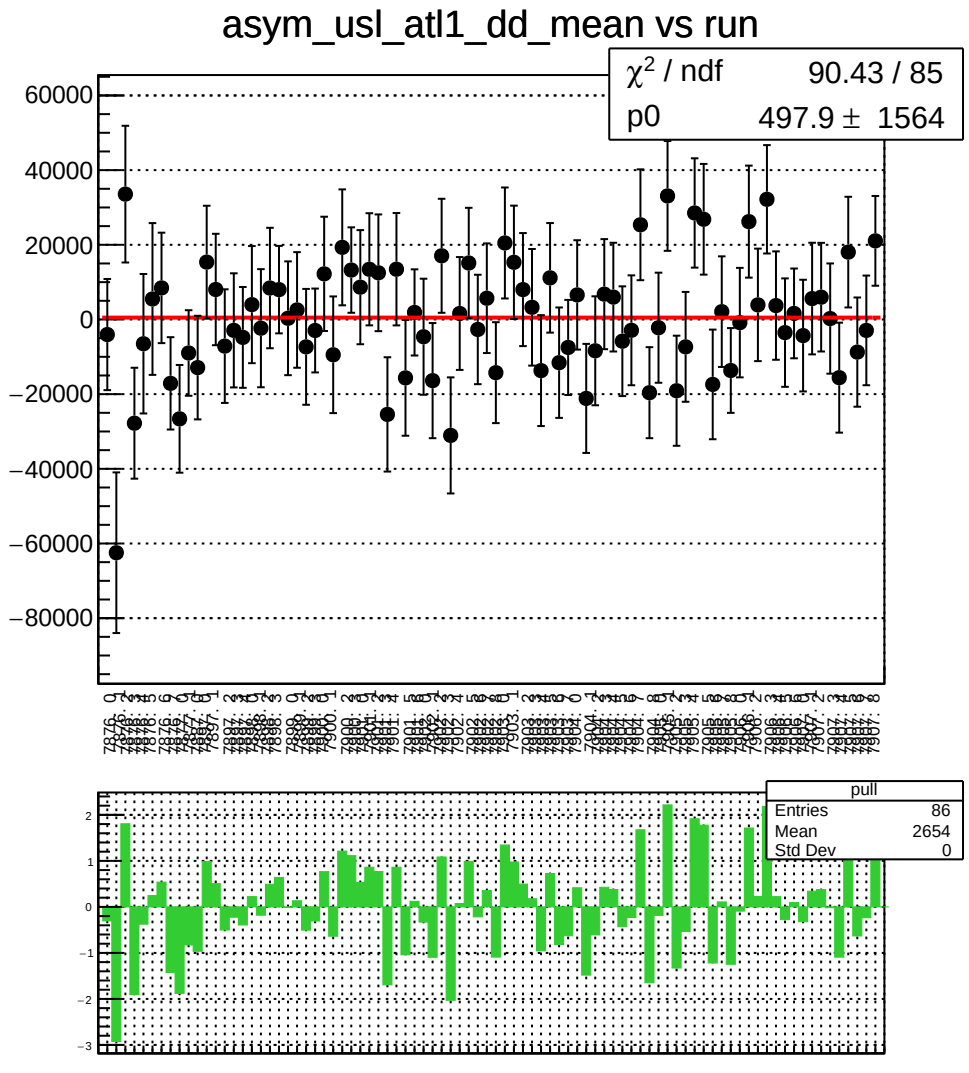

eigen_dit_asym_usl_atl1_dd_mean vs run
χ^2 / ndf 91.28 / 85
p0 −286.5 ± 1241
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 523.3
Std Dev 0
2
1
0
−1
−2

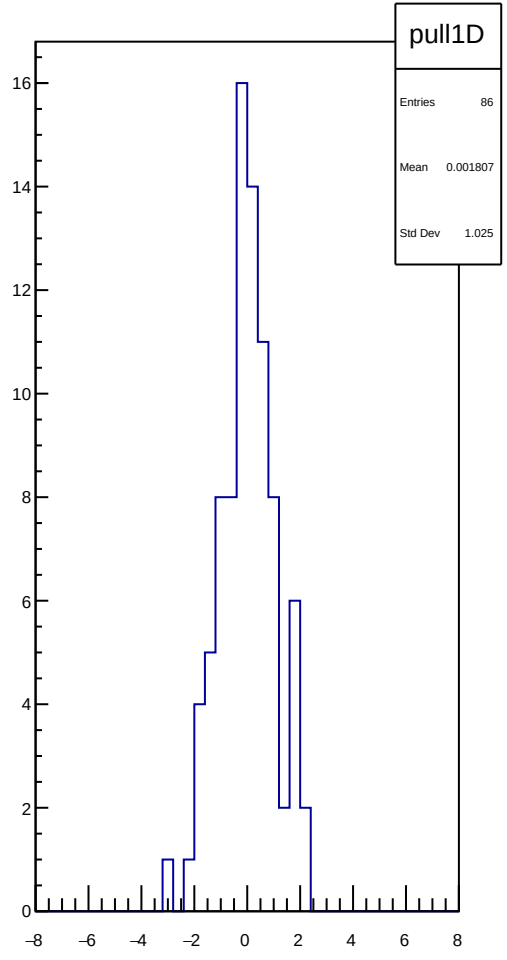

pull1D
Entries 86
Mean 0.008213
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

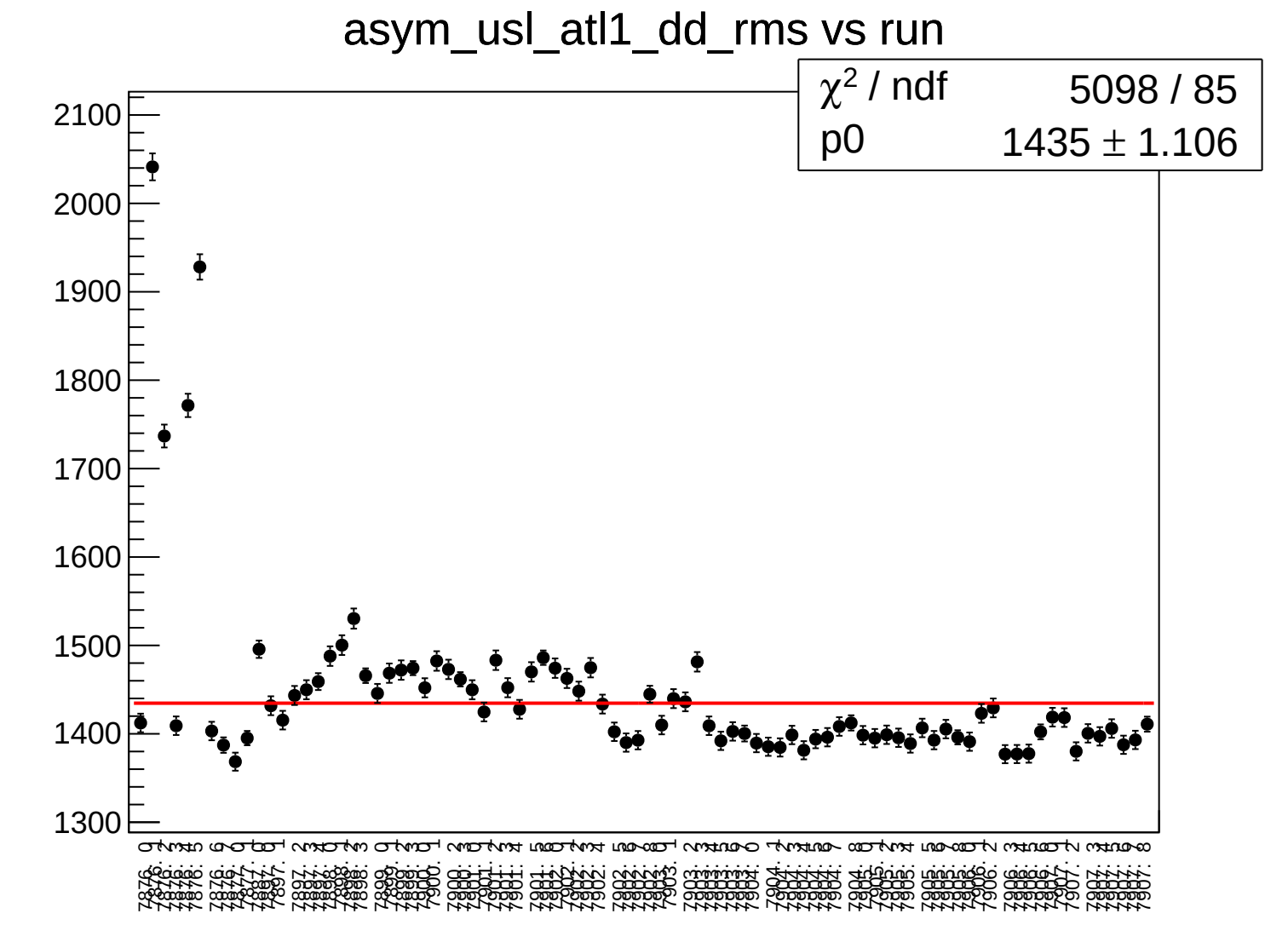

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 461.7 / 85
p0 1140 ± 0.8775
1220
1200
1180
1160
1140
1120
1100

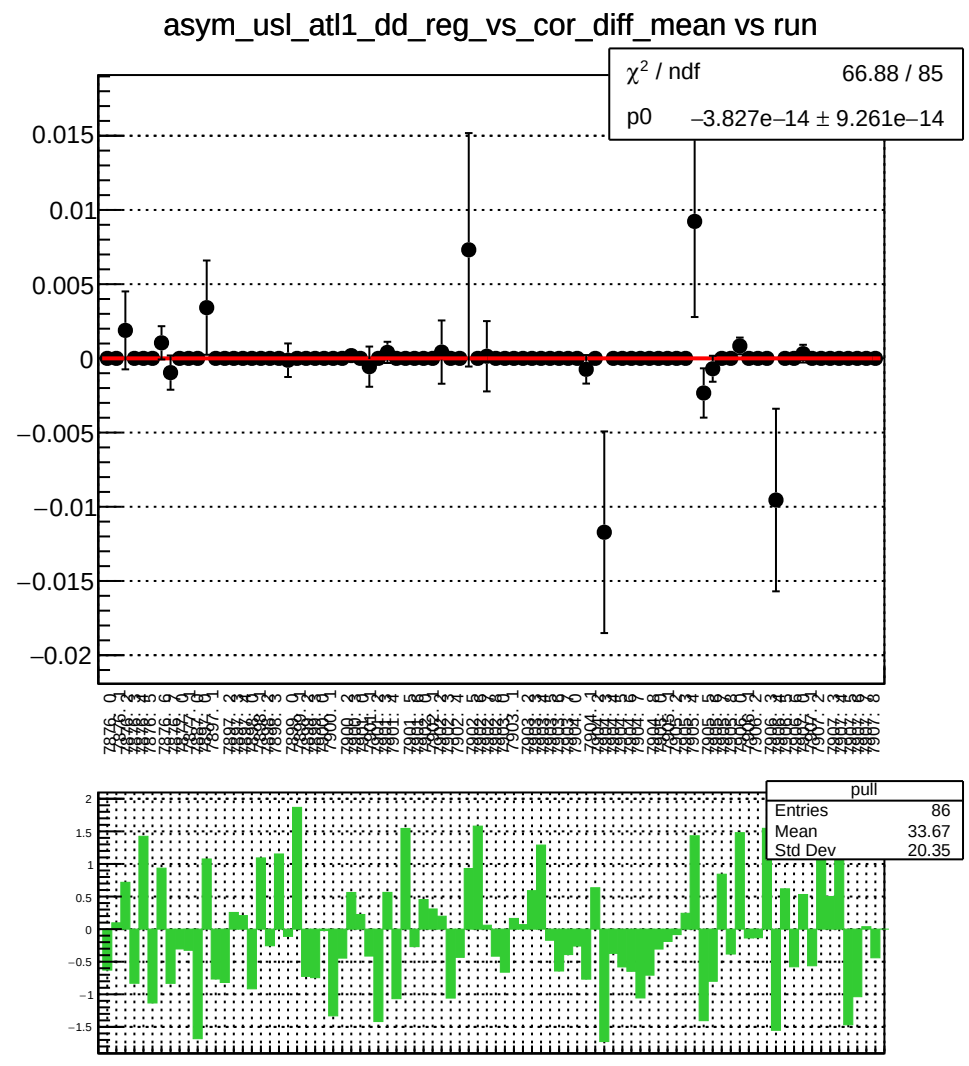

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.12 / 85
p0 −1055 ± 927.6
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −62.53
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01582
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

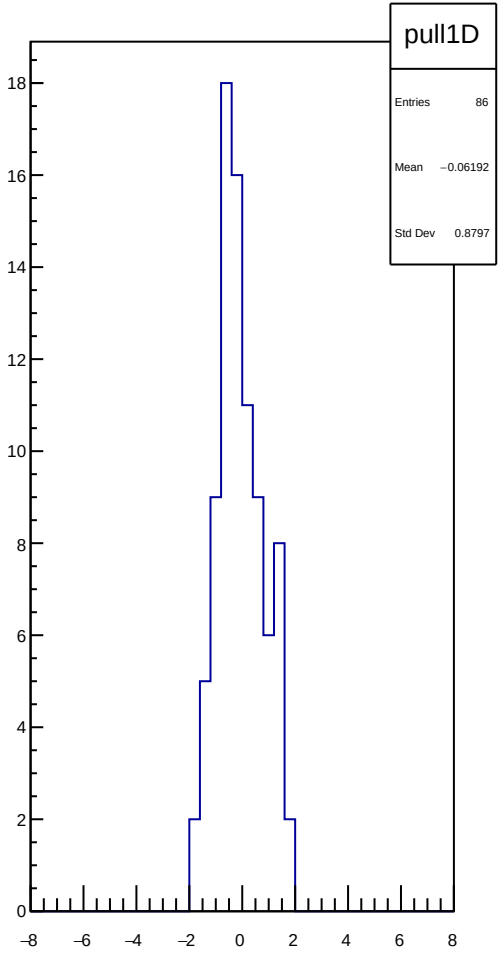

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.932e+04 / 85
p0 847.3 ± 0.6559
1800
1600
1400
1200
1000
800

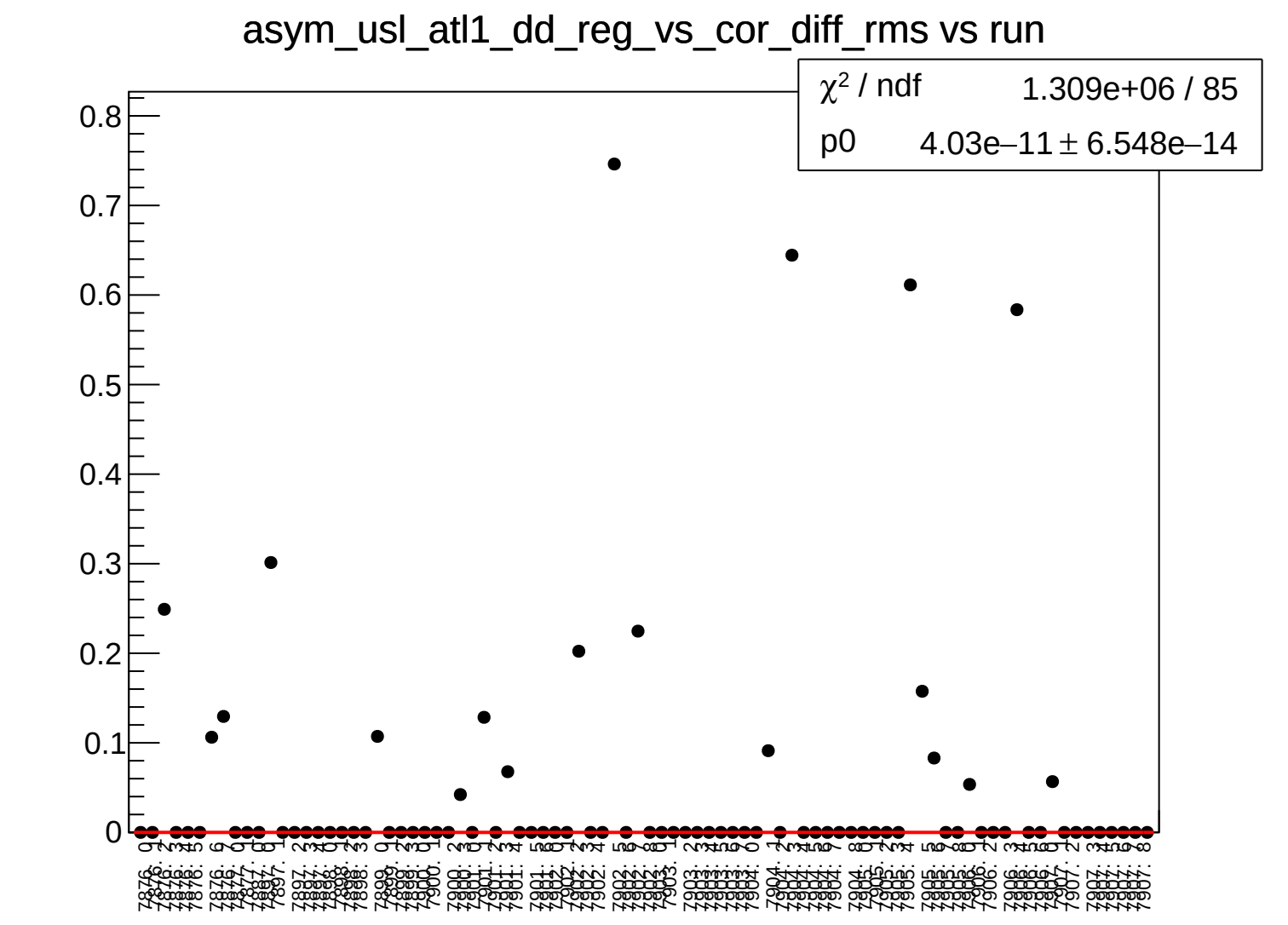

asym_usl_atl1_dd_mean vs run
χ² / ndf 90.43 / 85
p0 497.9 ± 1564
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 2654
Std Dev 0
2
1
0
−1
−2
−3

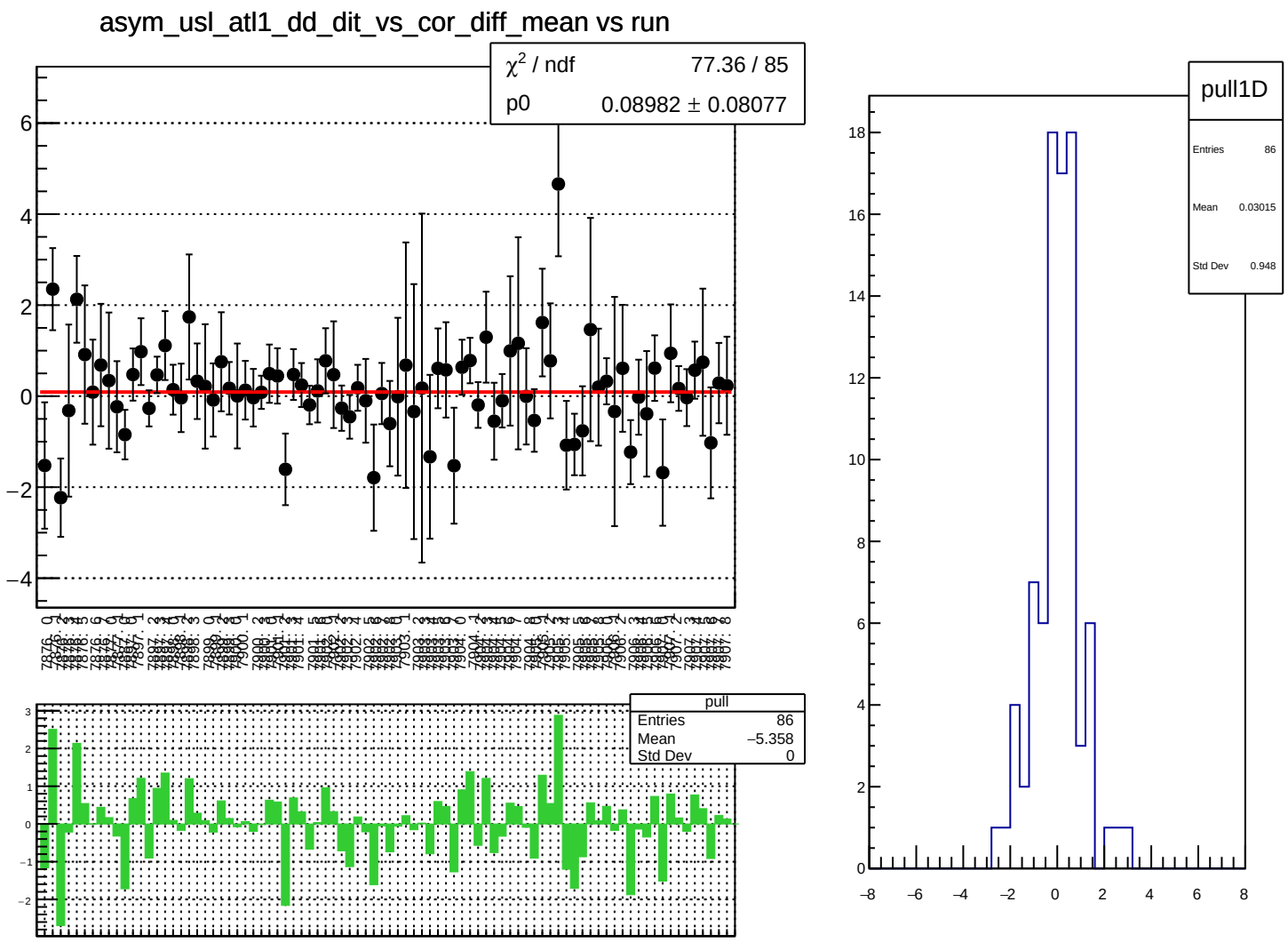

pull1D
Entries 86
Mean 0.001807
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

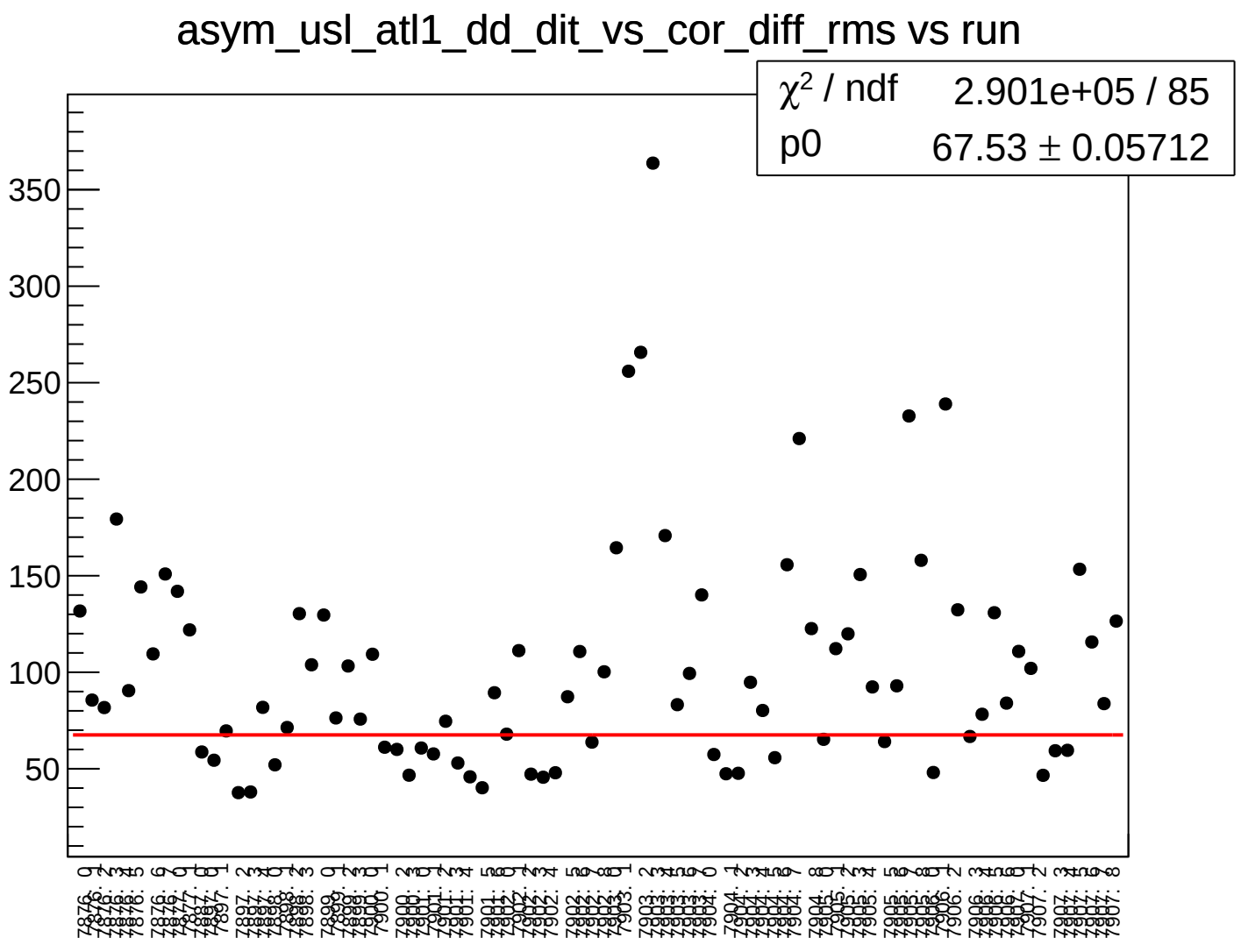

asym_usl_atl1_dd_rms vs run
χ^2 / ndf 5098 / 85
p0 1435 ± 1.106
2100
2000
1900
1800
1700
1600
1500
1400
1300

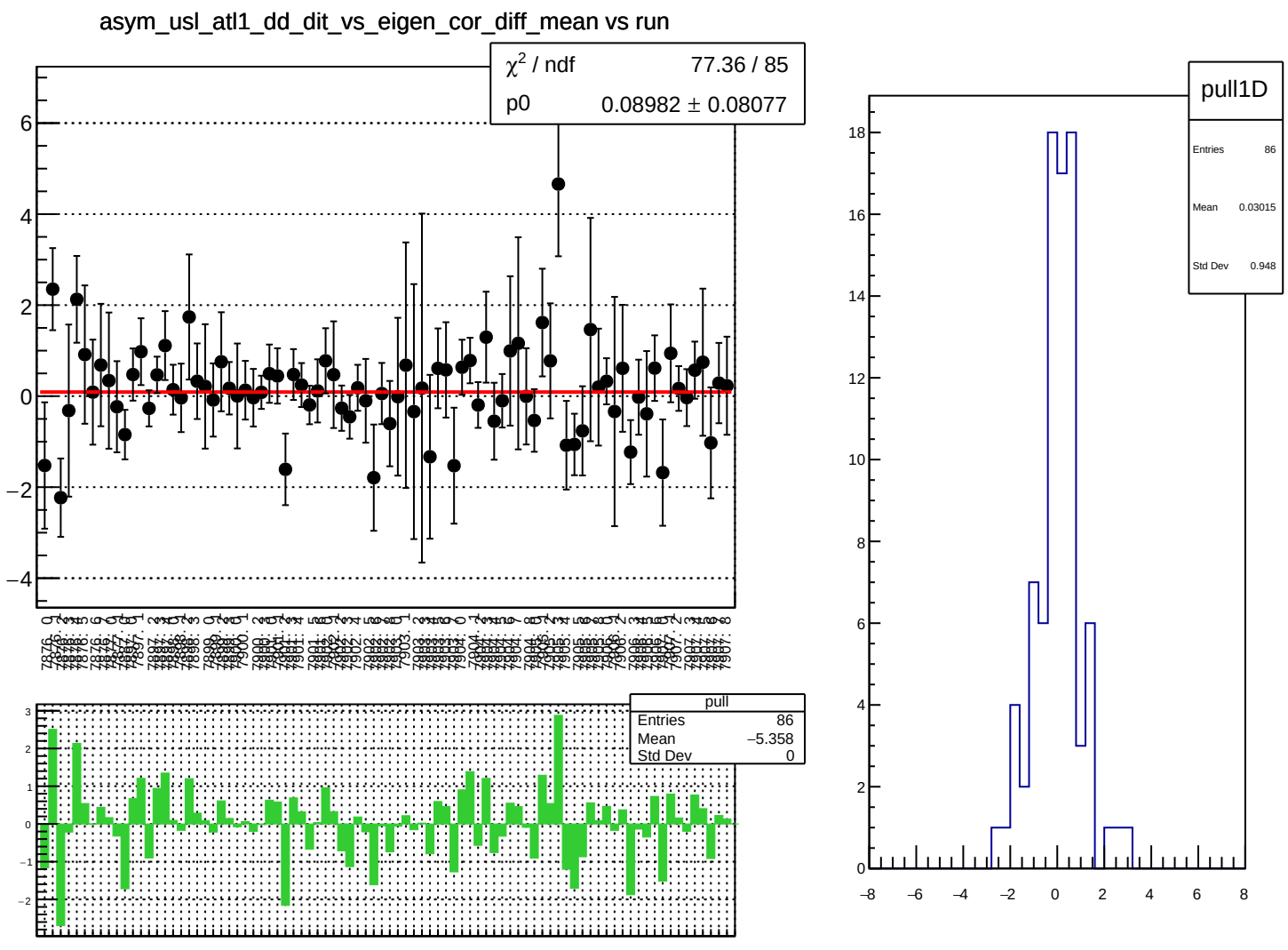

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.88 / 85
p0 −3.827e−14 ± 9.261e−14
pull
Entries 86
Mean 33.67
Std Dev 20.35

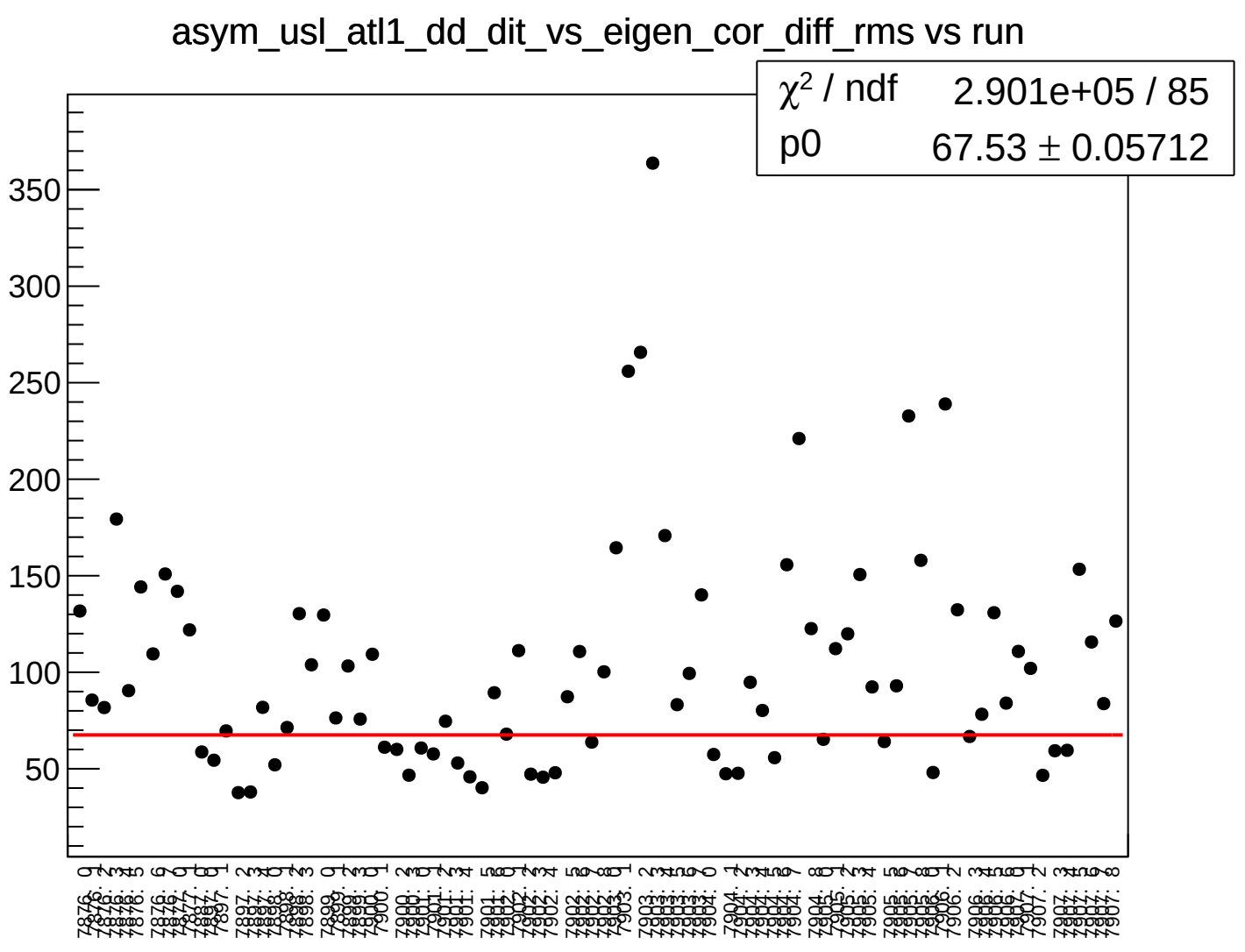

pull1D
Entries 86
Mean −0.06192
Std Dev 0.8797

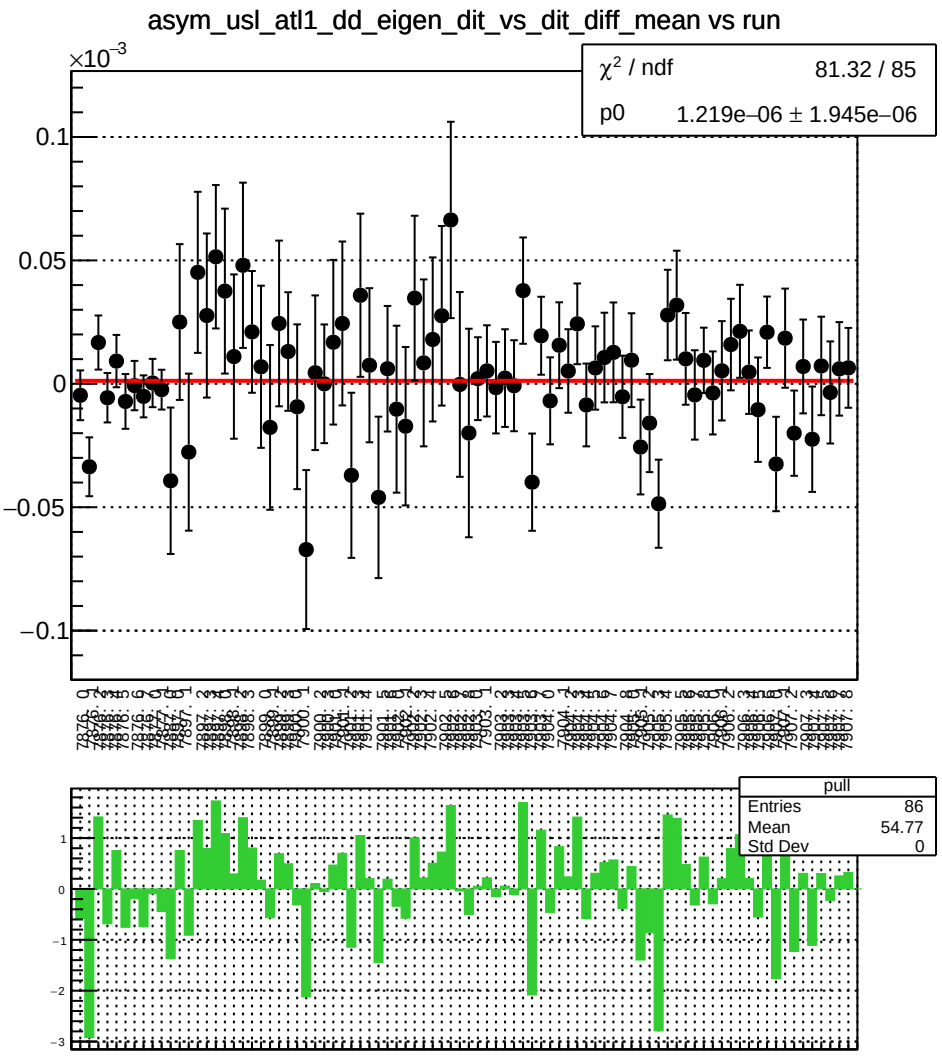

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.309e+06 / 85
p0 4.03e−11 ± 6.548e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

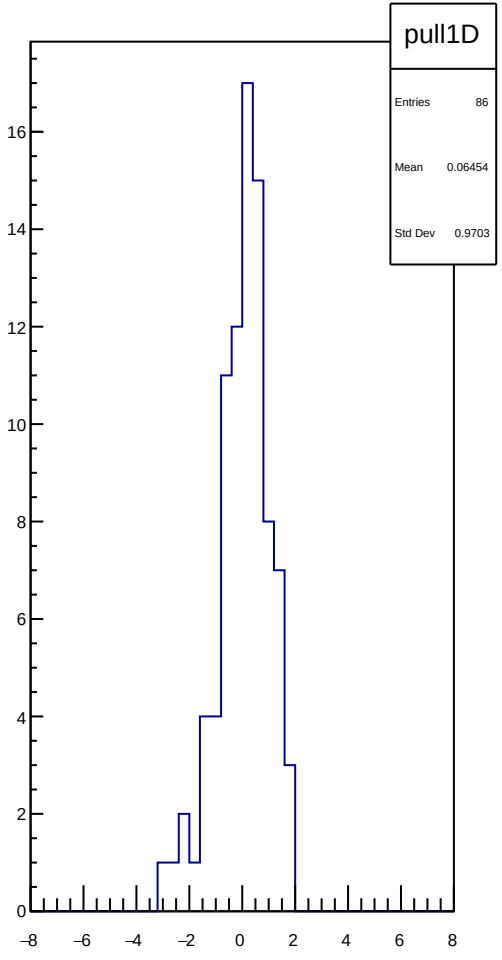

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.36 / 85
p0 0.08982 ± 0.08077
pull
Entries 86
Mean −5.358
Std Dev 0
pull1D
Entries 86
Mean 0.03015
Std Dev 0.948

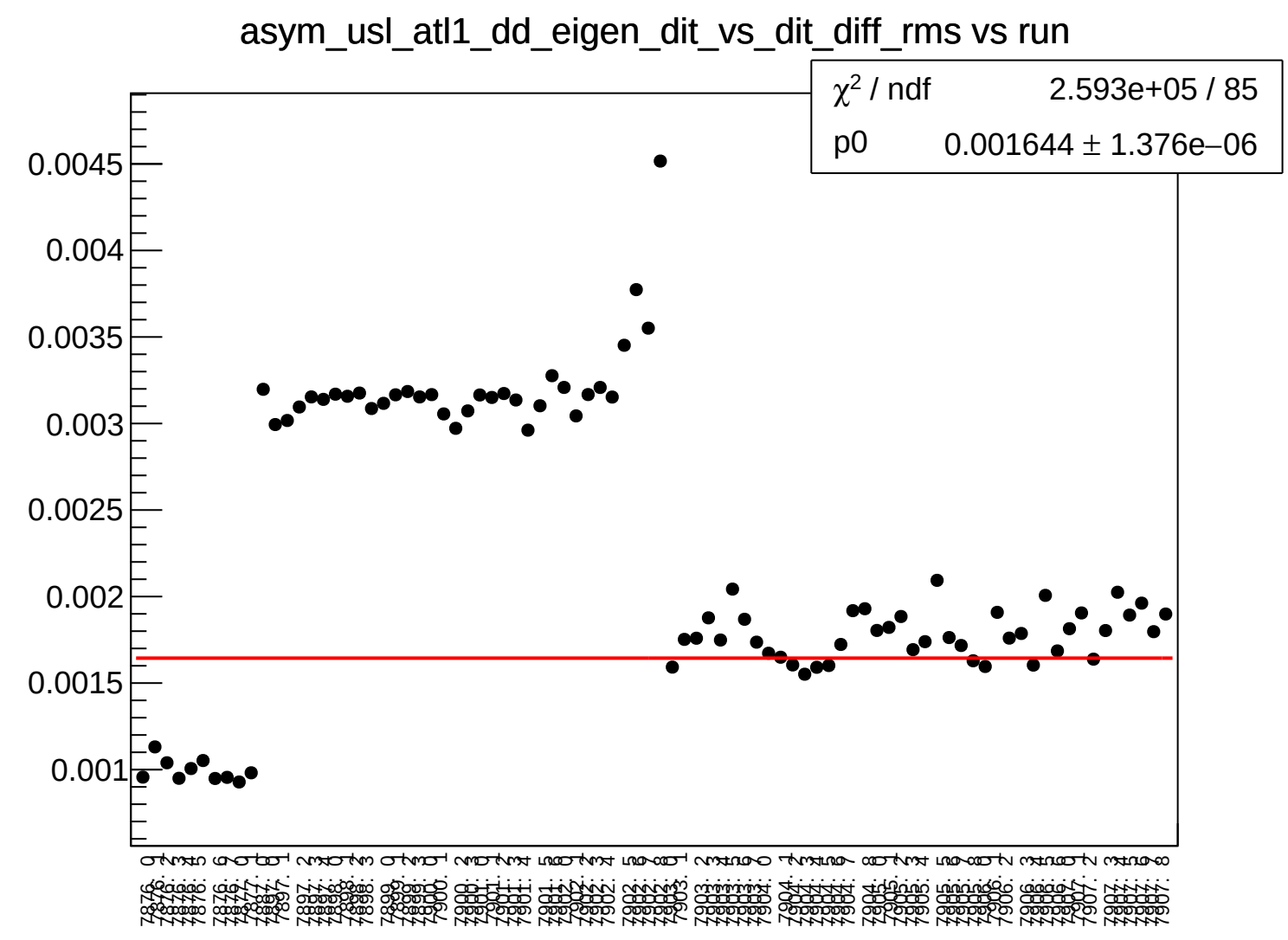

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.901e+05 / 85
p0 67.53 ± 0.05712
350
300
250
200
150
100
50

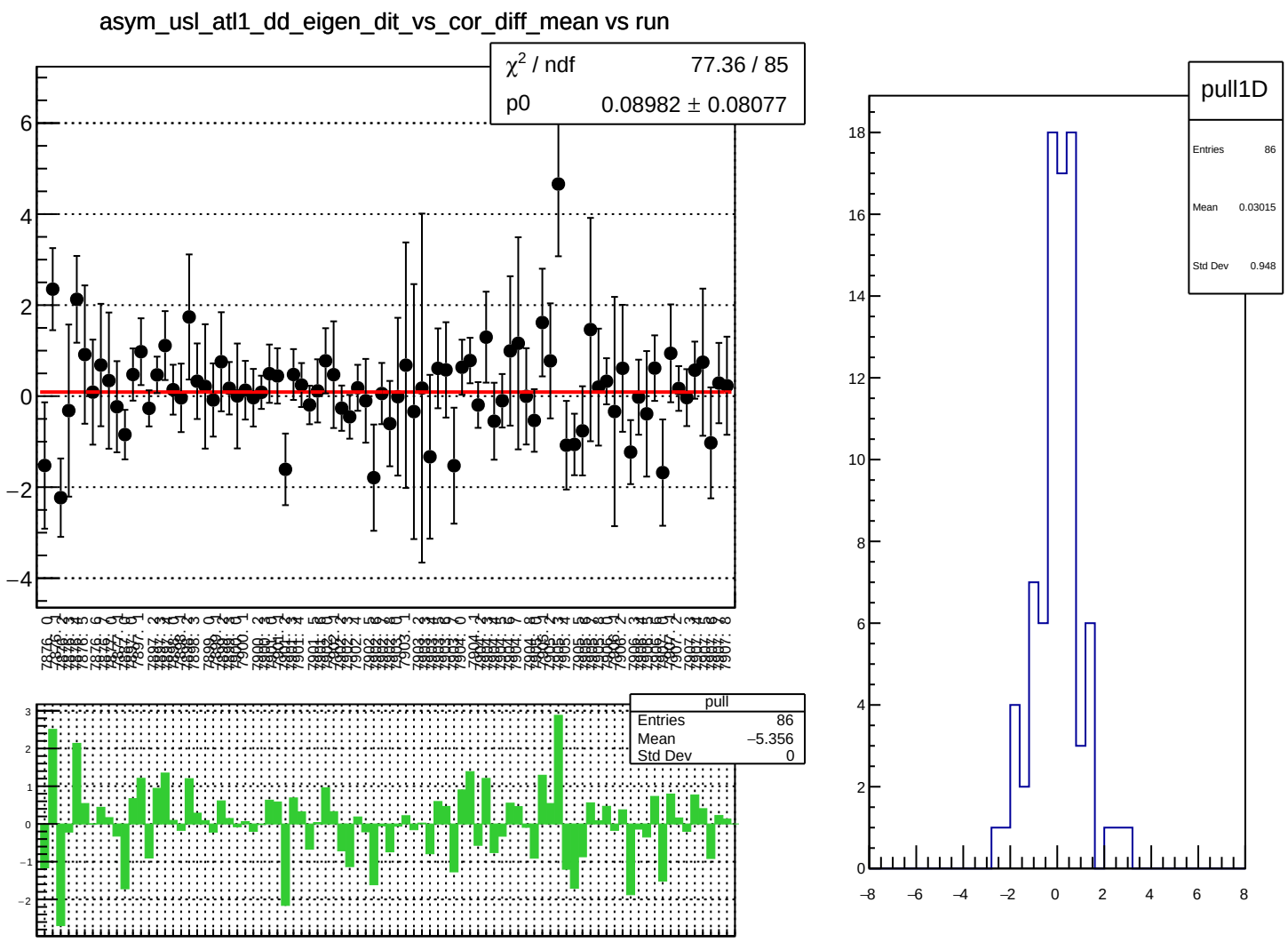

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.36 / 85
p0 0.08982 ± 0.08077
pull
Entries 86
Mean −5.358
Std Dev 0
pull1D
Entries 86
Mean 0.03015
Std Dev 0.948

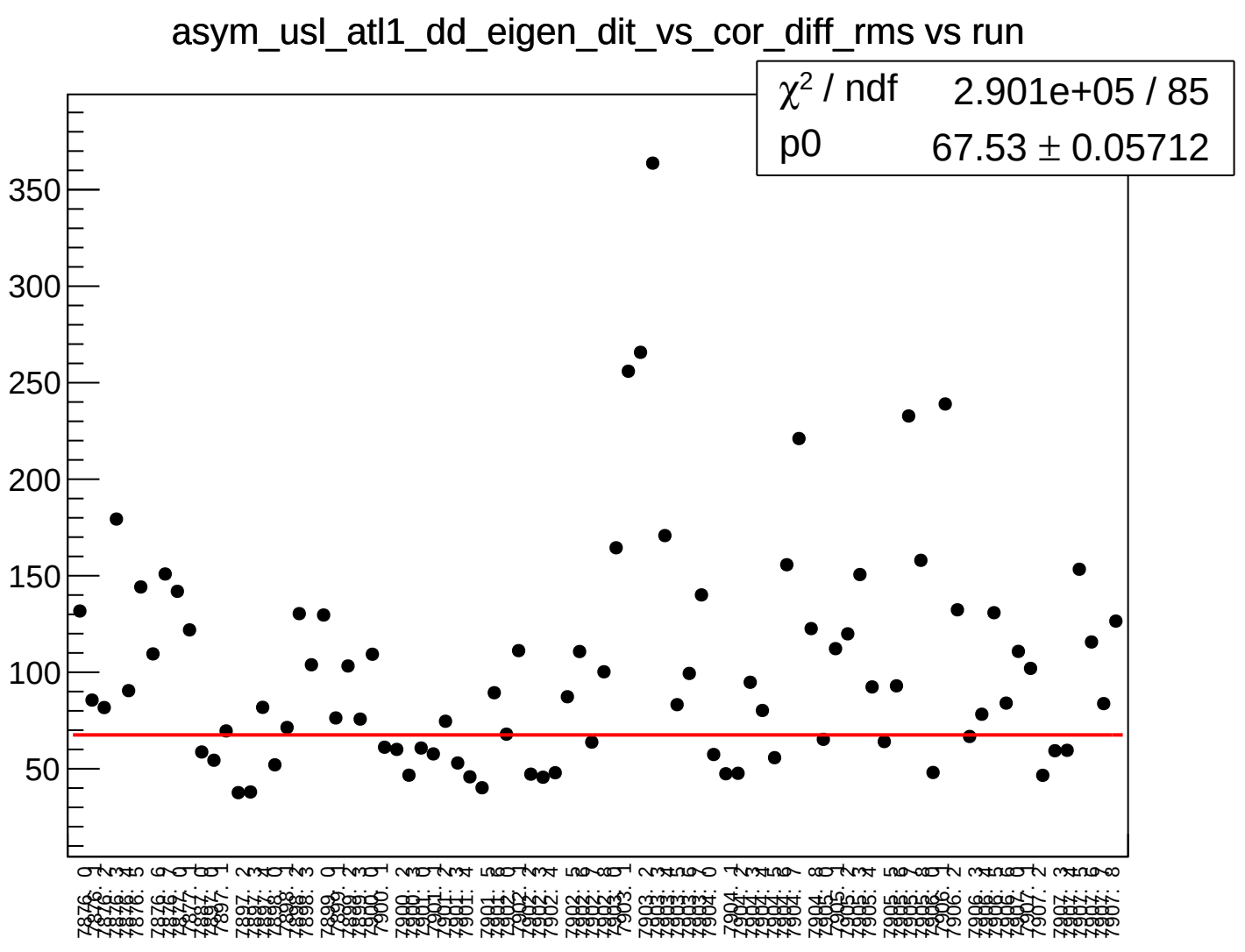

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.901e+05 / 85
p0 67.53 ± 0.05712
350
300
250
200
150
100
50

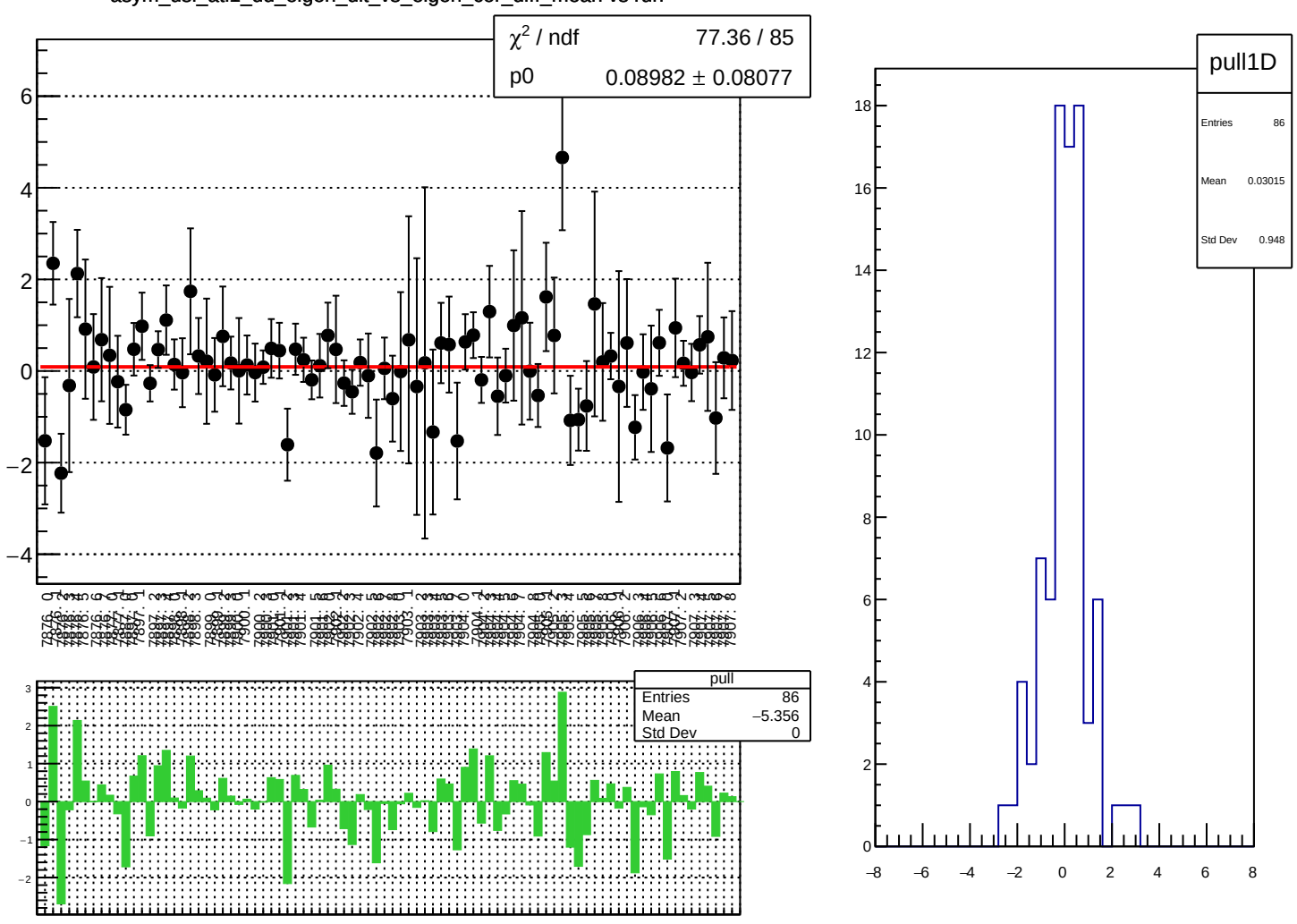

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.32 / 85
p0 1.219e−06 ± 1.945e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 54.77
Std Dev 0

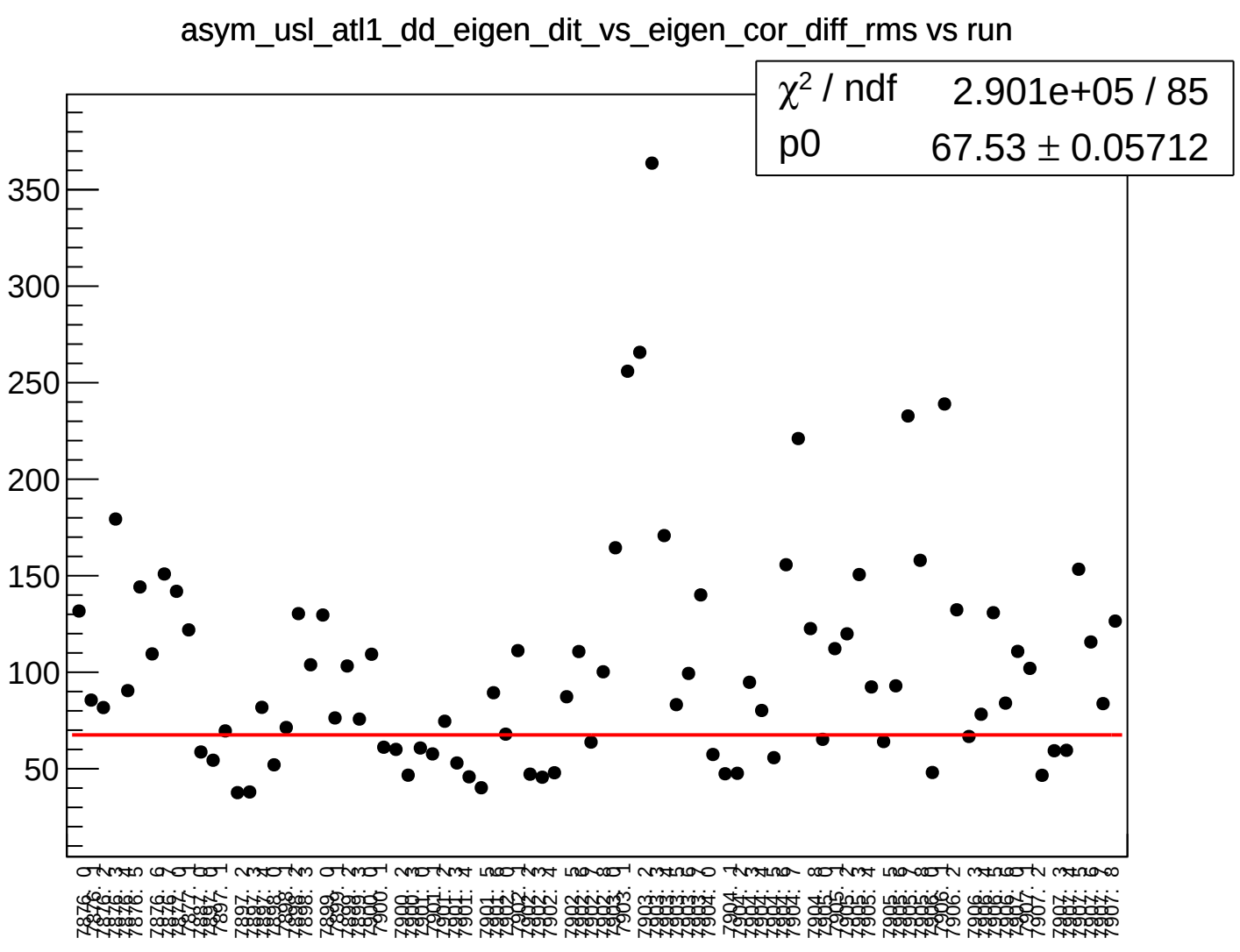

pull1D
Entries 86
Mean 0.06454
Std Dev 0.9703
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

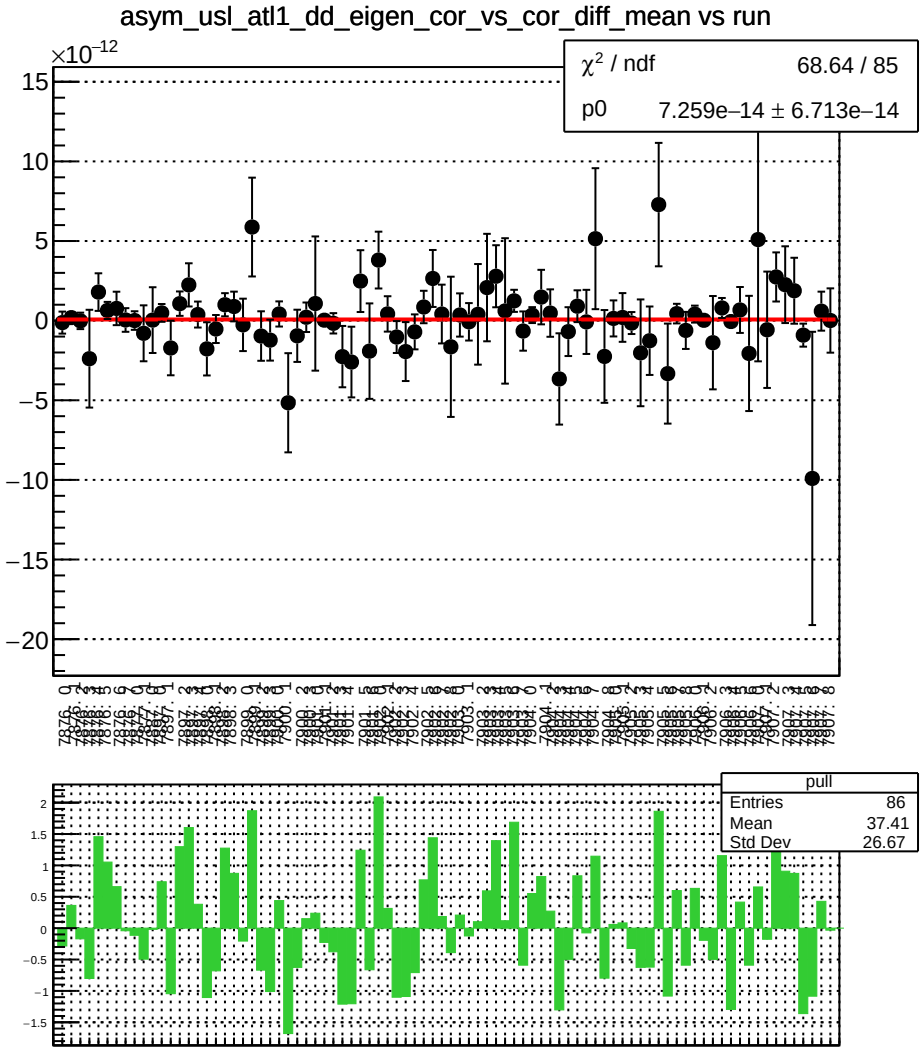

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.593e+05 / 85
p0 0.001644 ± 1.376e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

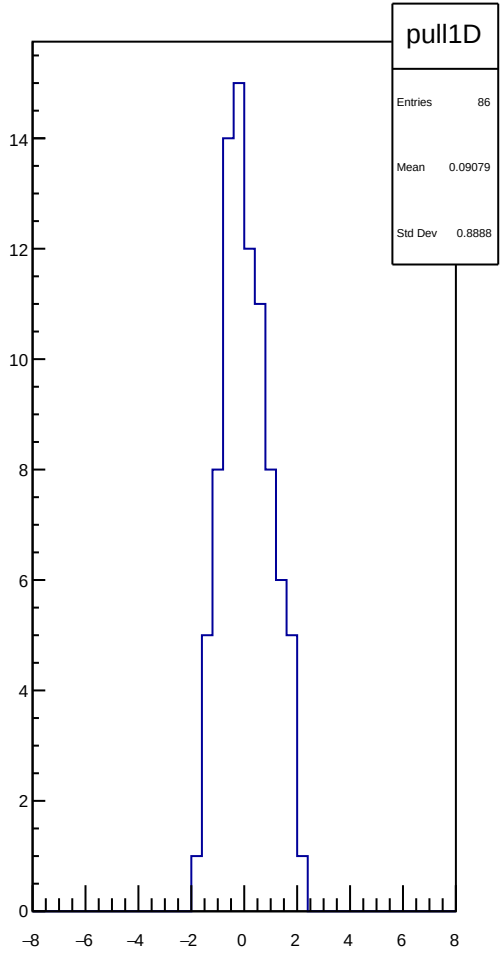

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.36 / 85
p0 0.08982 ± 0.08077
pull
Entries 86
Mean −5.356
Std Dev 0
pull1D
Entries 86
Mean 0.03015
Std Dev 0.948

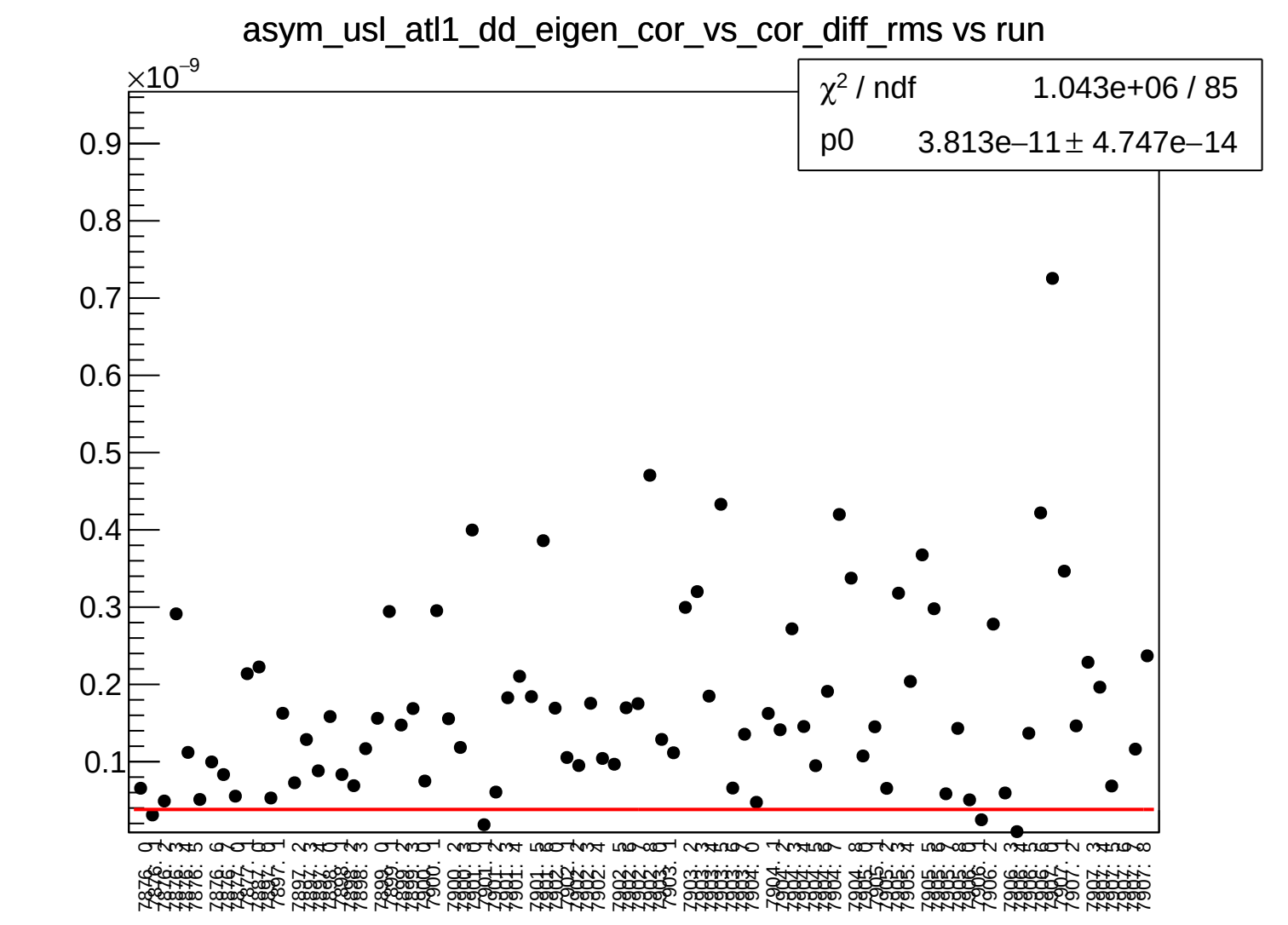

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.901e+05 / 85
p0 67.53 ± 0.05712
350
300
250
200
150
100
50

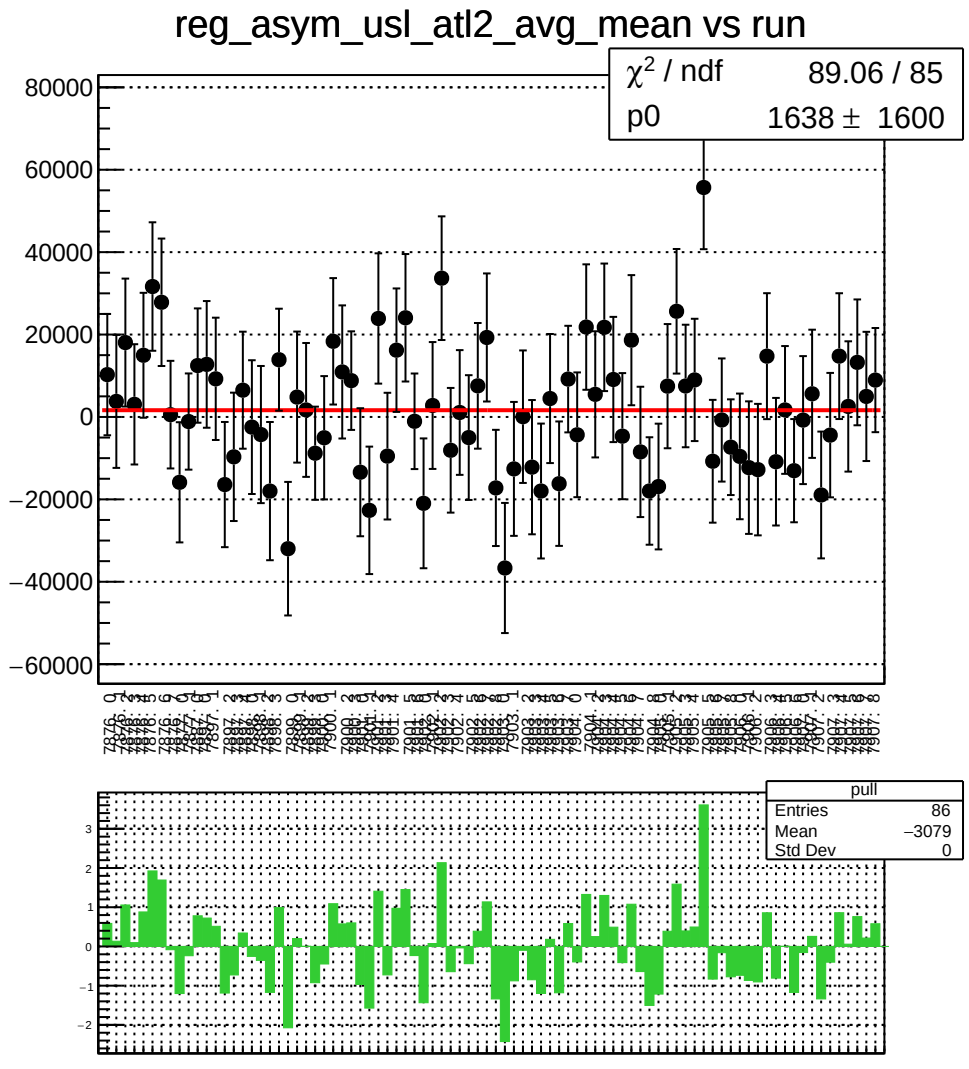

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.36 / 85
p0 0.08982 ± 0.08077
pull
Entries 86
Mean −5.356
Std Dev 0
pull1D
Entries 86
Mean 0.03015
Std Dev 0.948

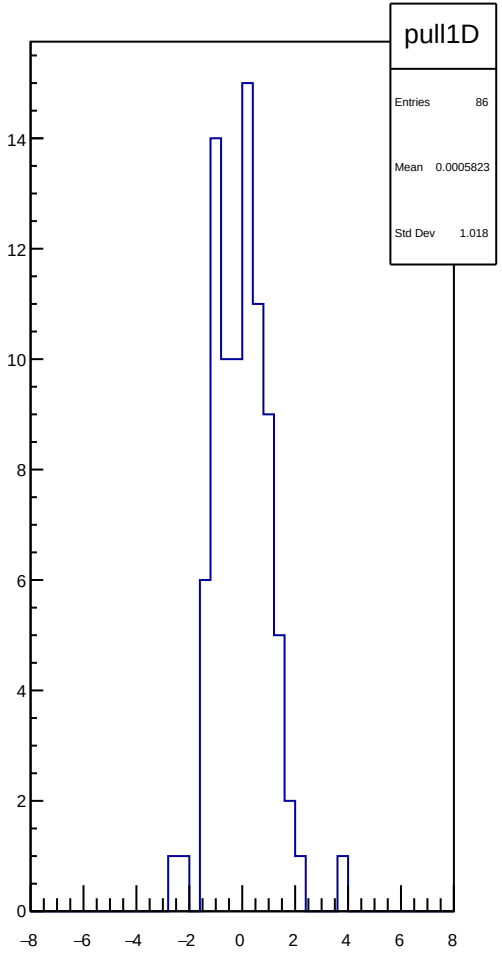

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.901e+05 / 85
p0 67.53 ± 0.05712
350
300
250
200
150
100
50

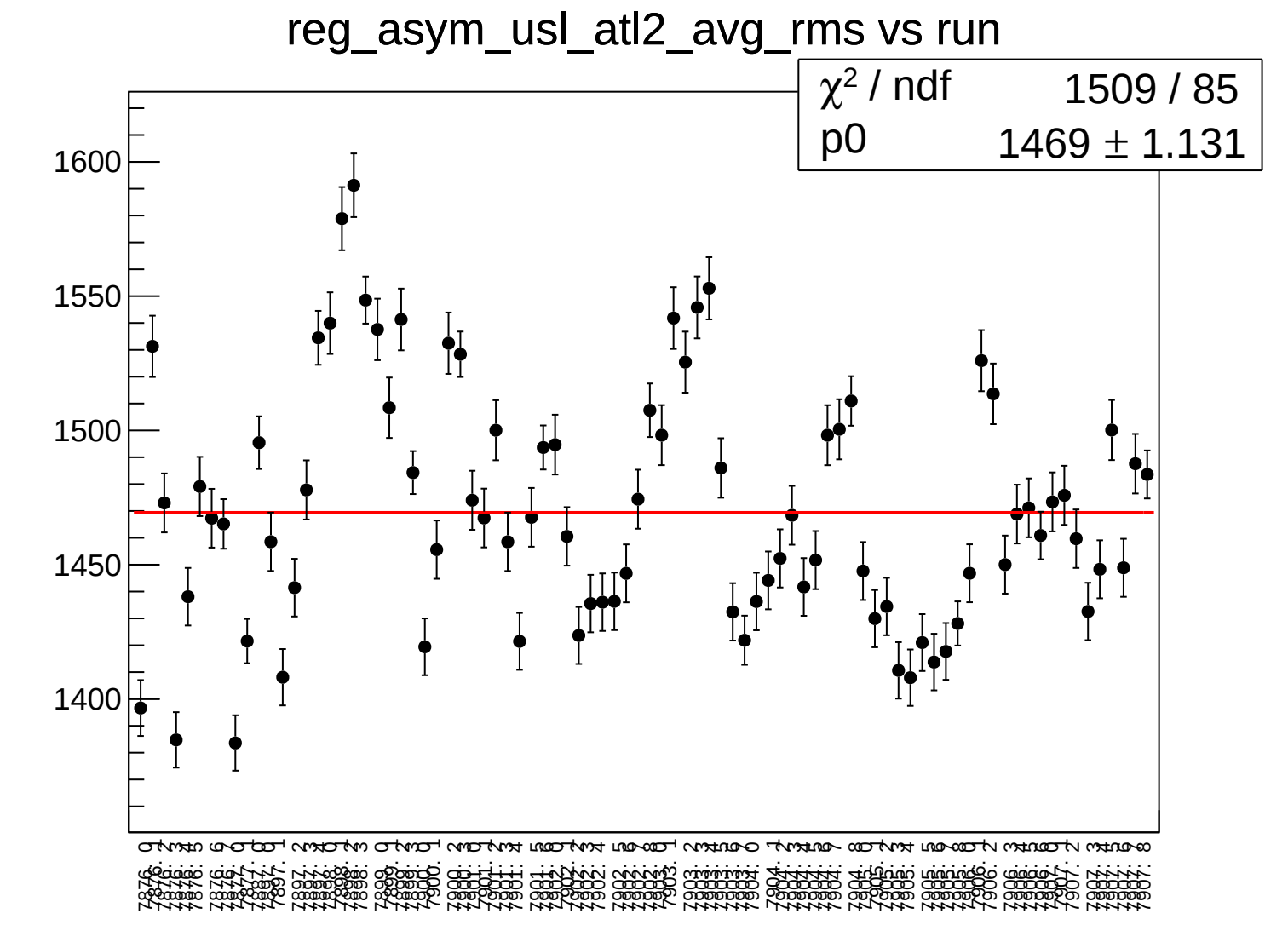

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.64 / 85
p0 7.259e−14 ± 6.713e−14
pull
Entries 86
Mean 37.41
Std Dev 26.67

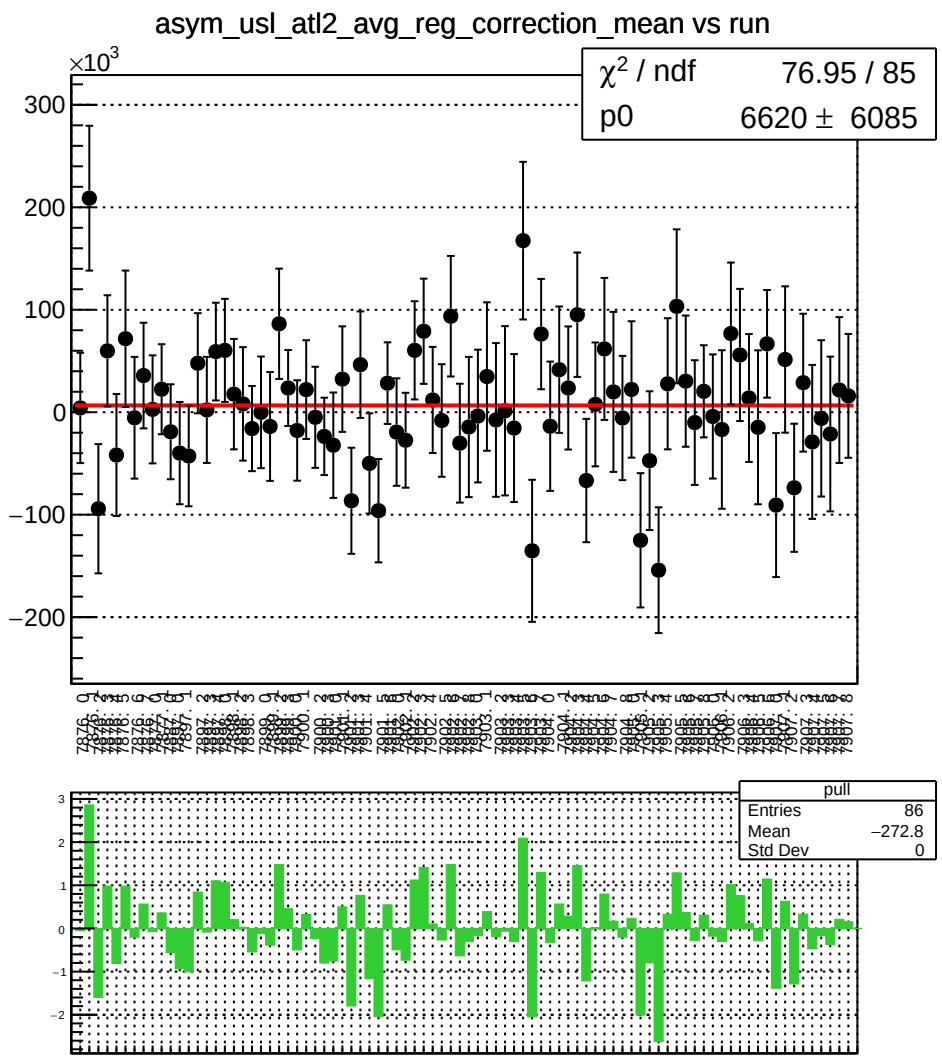

pull1D
Entries 86
Mean 0.09079
Std Dev 0.8888

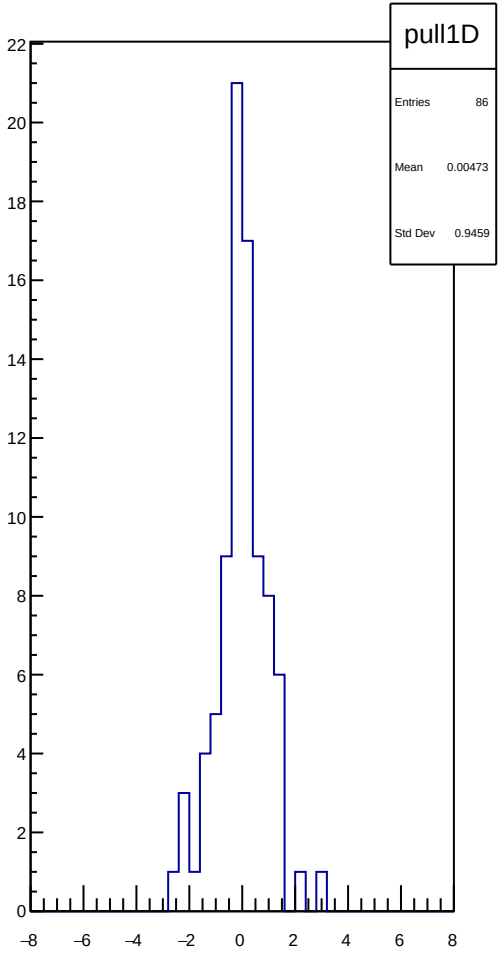

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.043e+06 / 85
p0 3.813e−11 ± 4.747e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

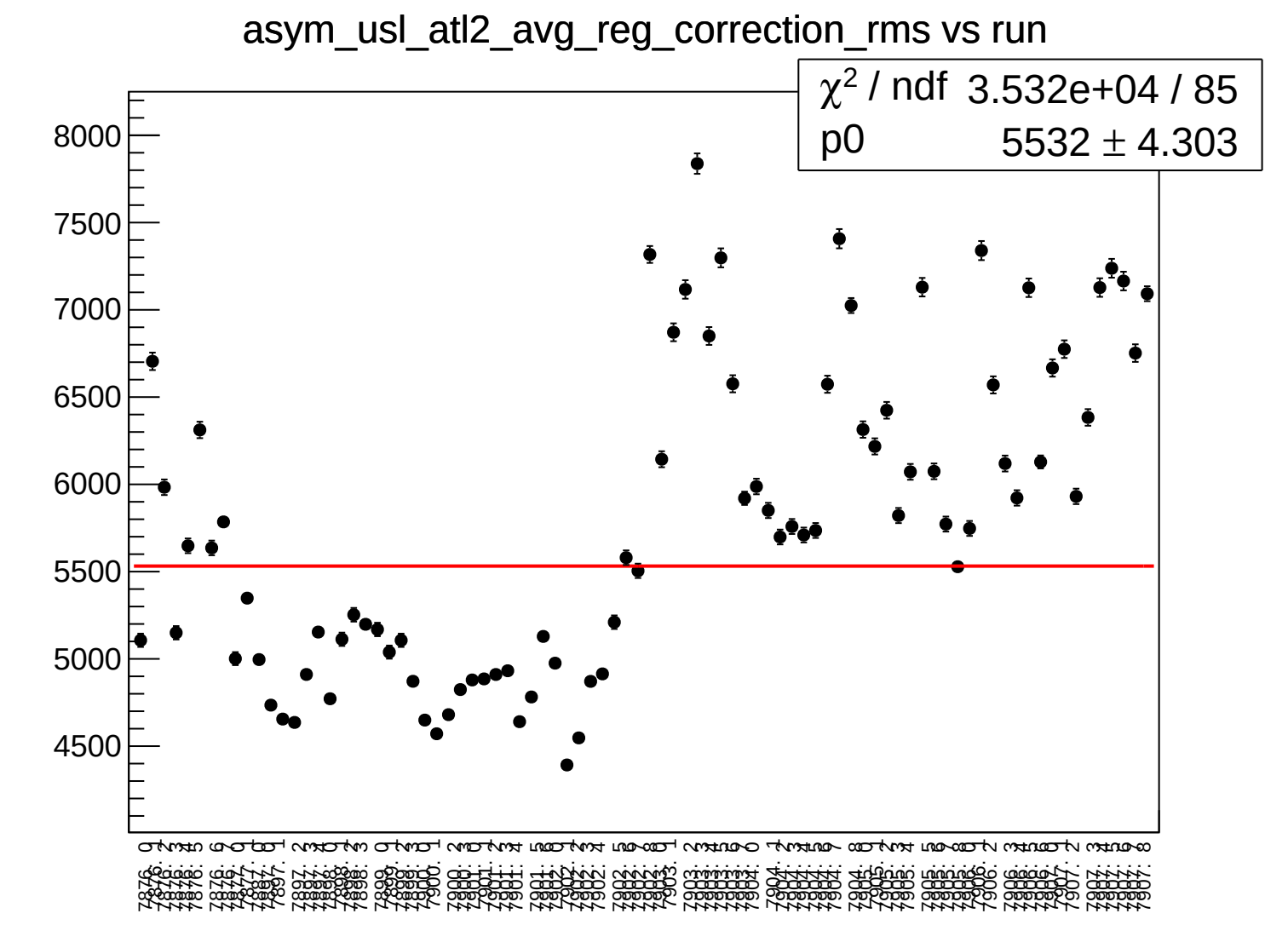

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 89.06 / 85
p0 1638 ± 1600
pull
Entries 86
Mean −3079
Std Dev 0

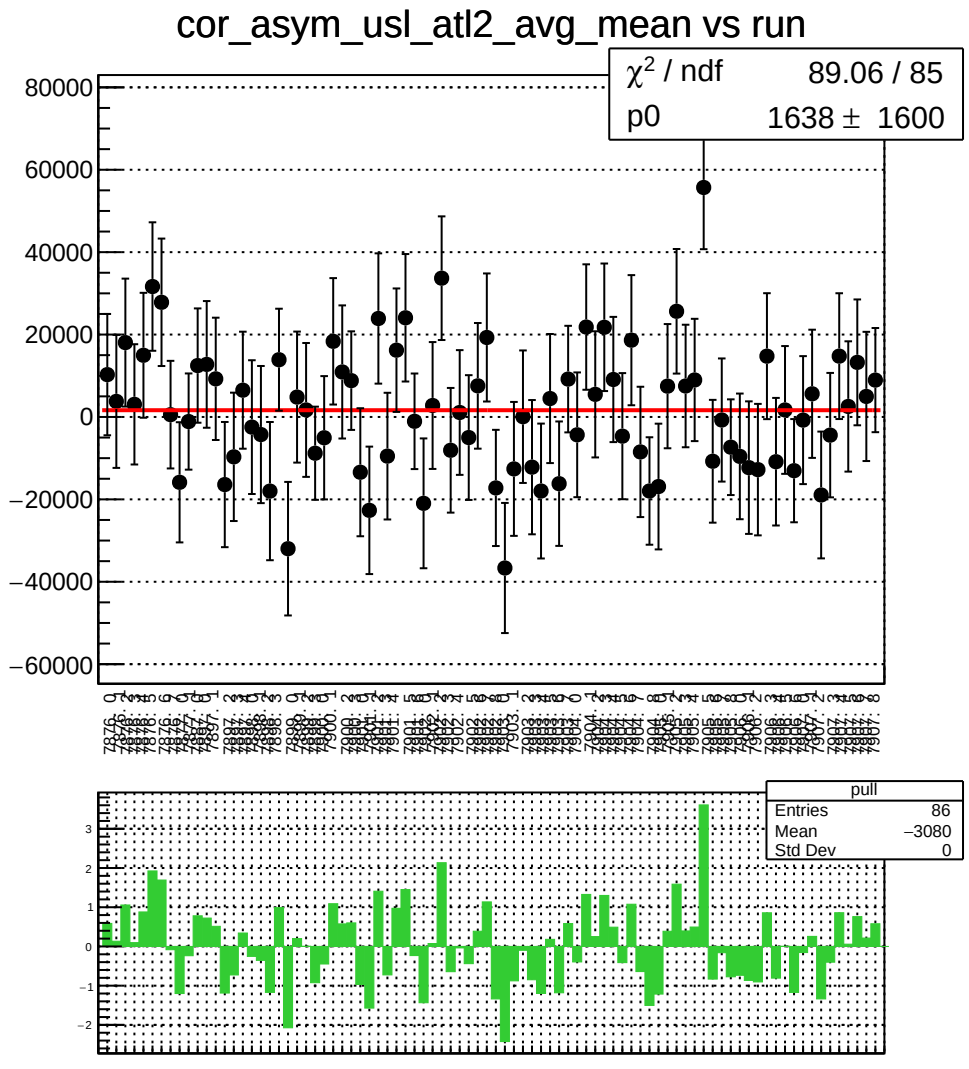

pull1D
Entries 86
Mean 0.0005823
Std Dev 1.018

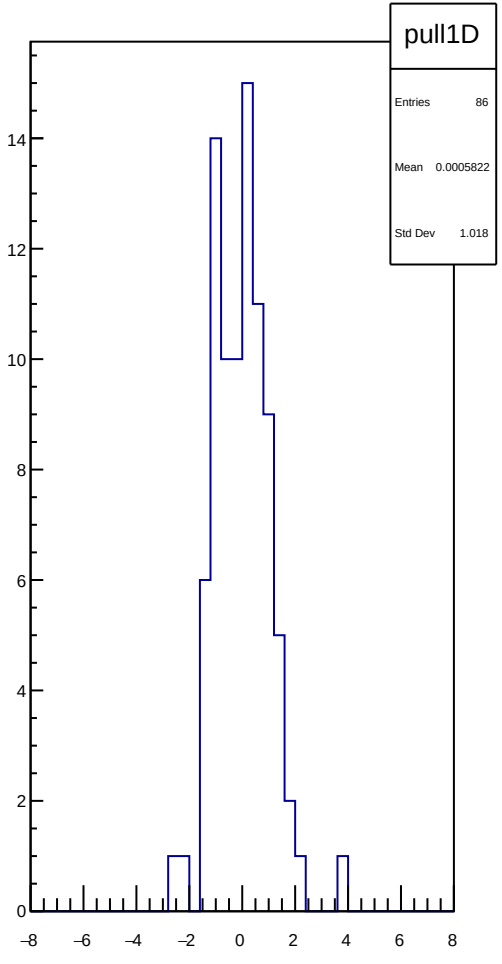

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 1509 / 85
p0 1469 ± 1.131
1600
1550
1500
1450
1400

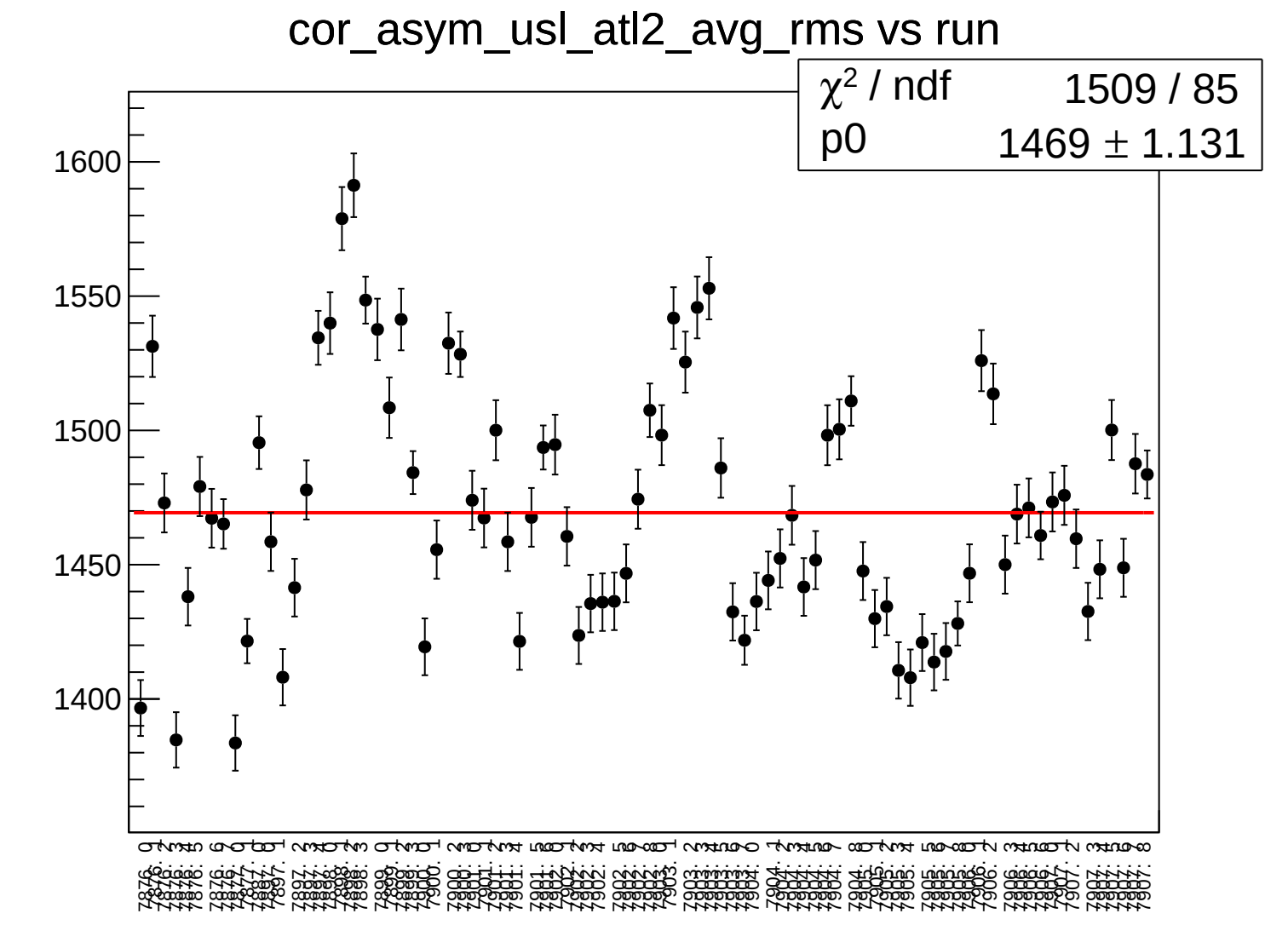

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 76.95 / 85
p0 6620 ± 6085
300
200
100
0
−100
−200
pull
Entries 86
Mean −272.8
Std Dev 0
3
2
1
0
−1
−2

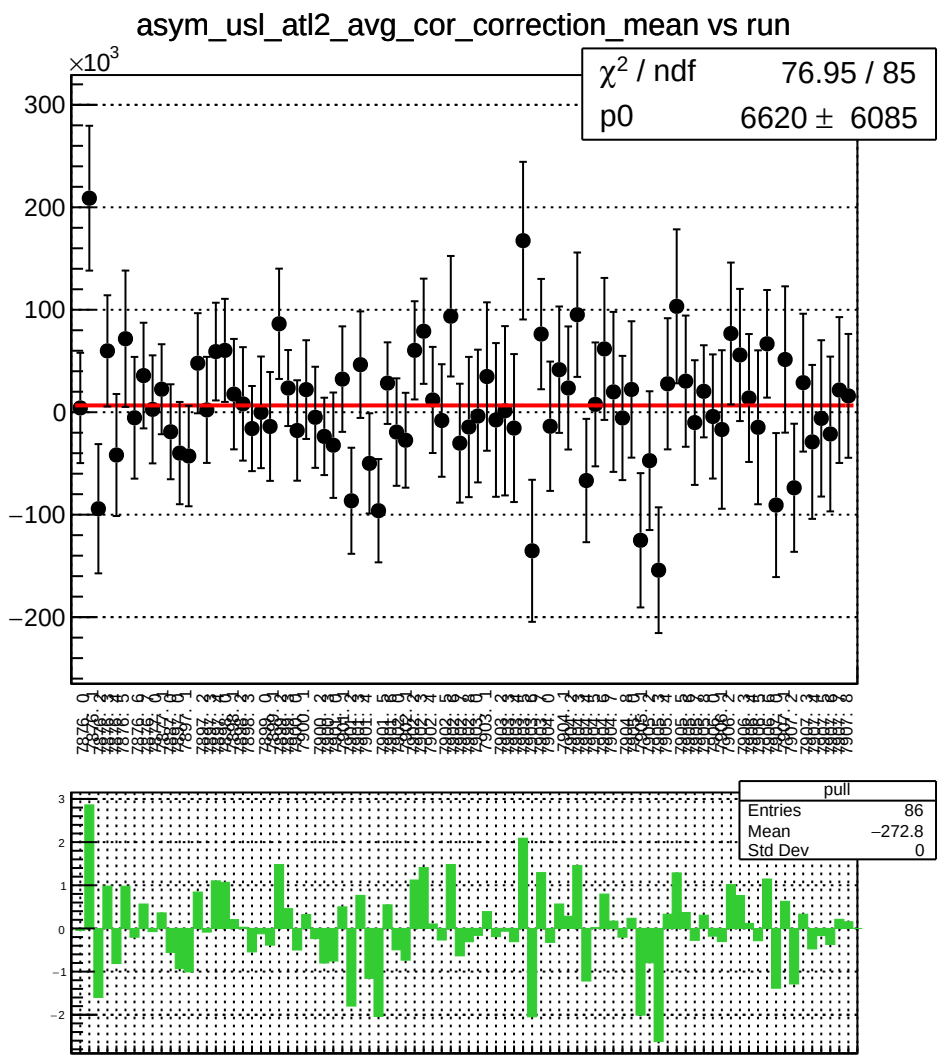

pull1D
Entries 86
Mean 0.00473
Std Dev 0.9459
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

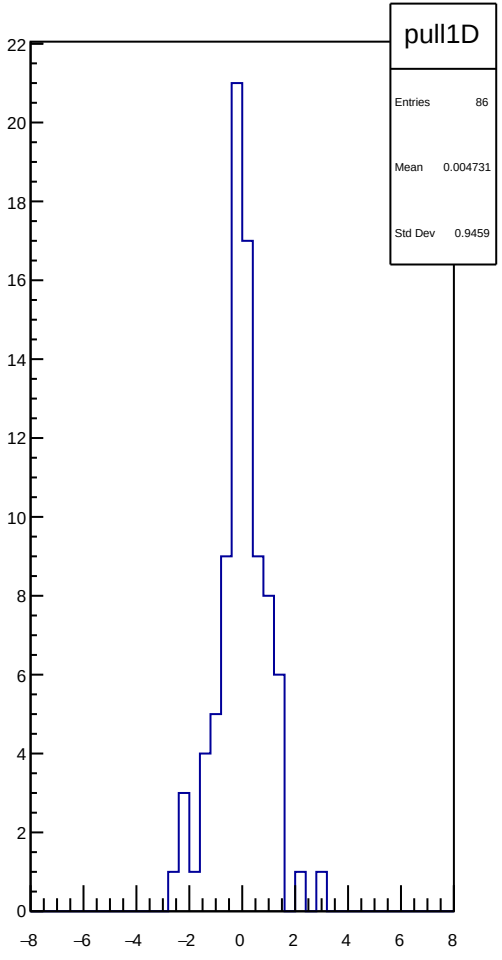

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 3.532e+04 / 85
p0 5532 ± 4.303
8000
7500
7000
6500
6000
5500
5000
4500

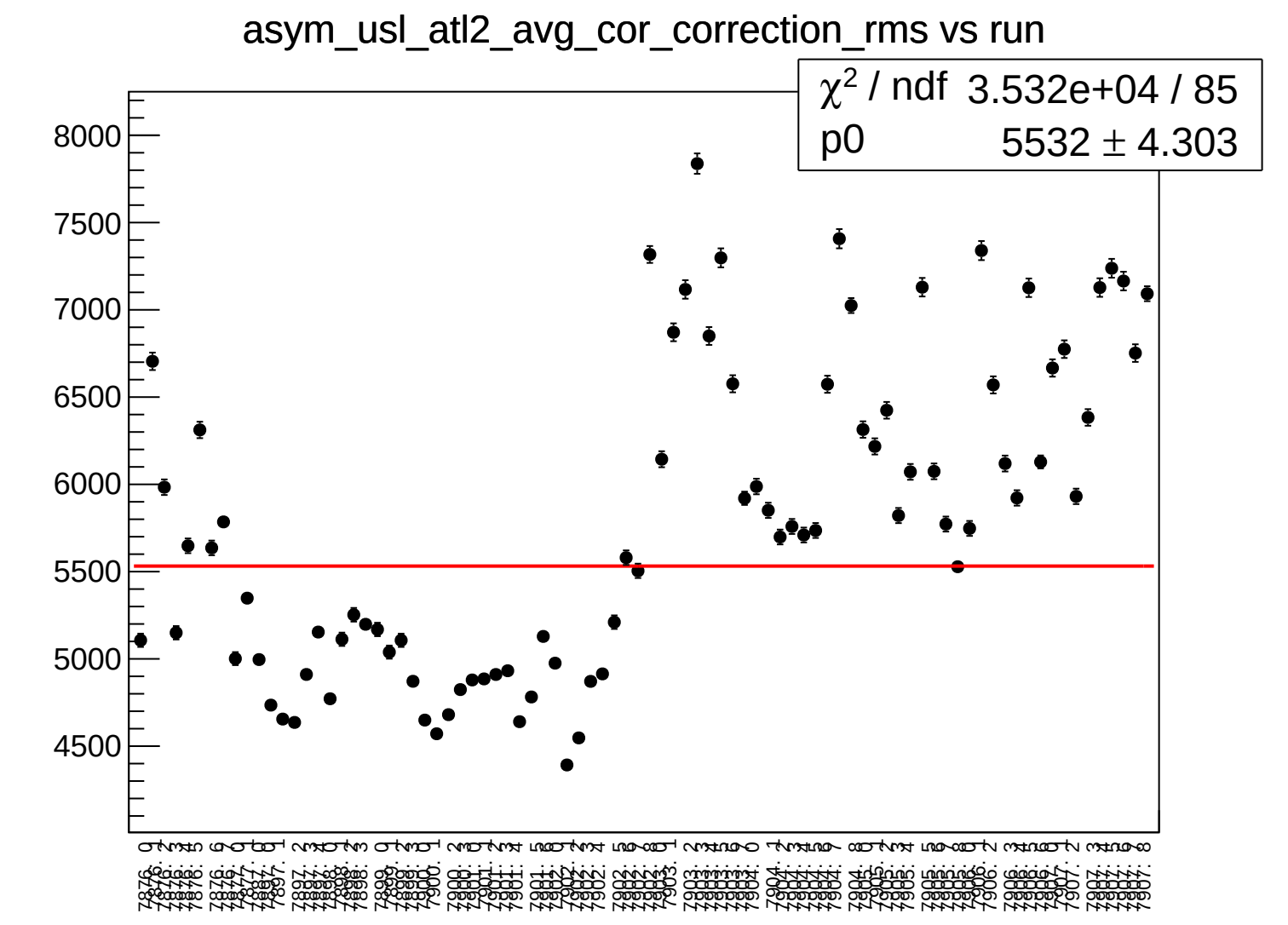

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 89.06 / 85
p0 1638 ± 1600
pull
Entries 86
Mean −3080
Std Dev 0

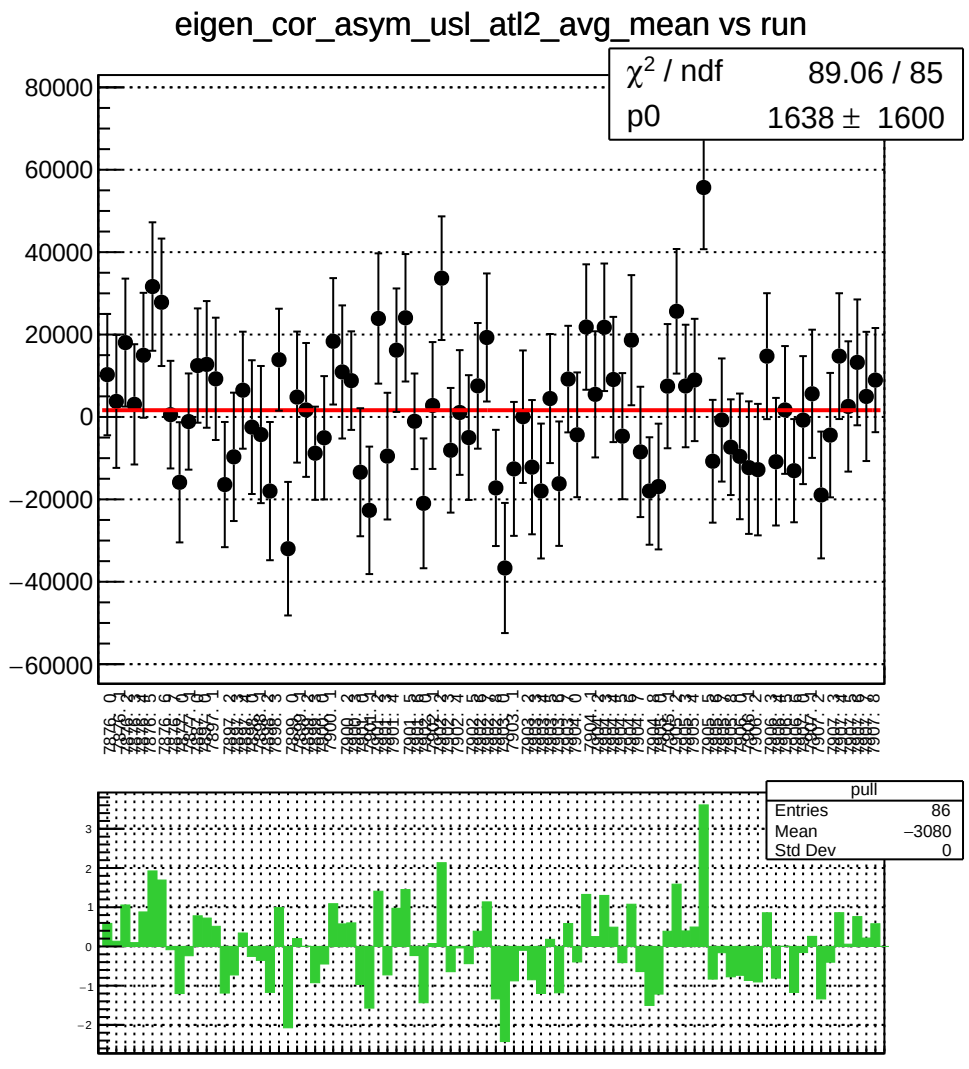

pull1D
Entries 86
Mean 0.0005822
Std Dev 1.018

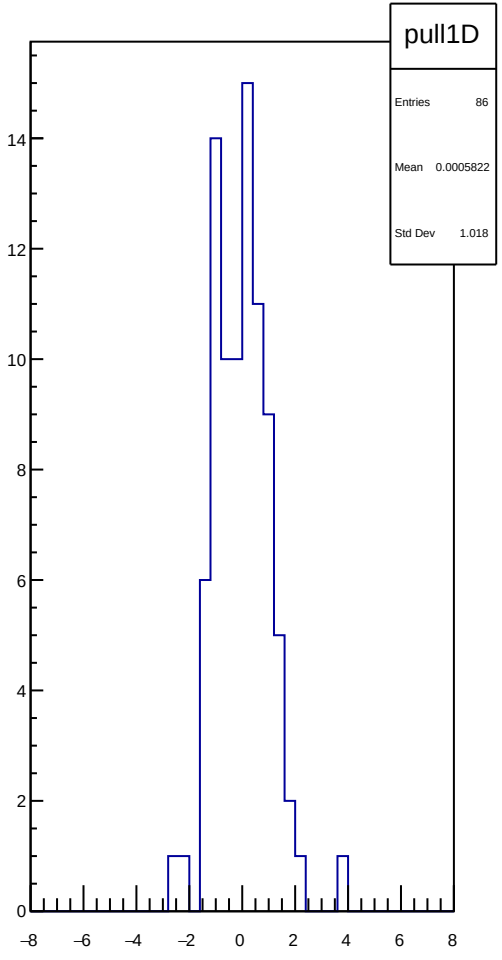

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 1509 / 85
p0 1469 ± 1.131
1600
1550
1500
1450
1400

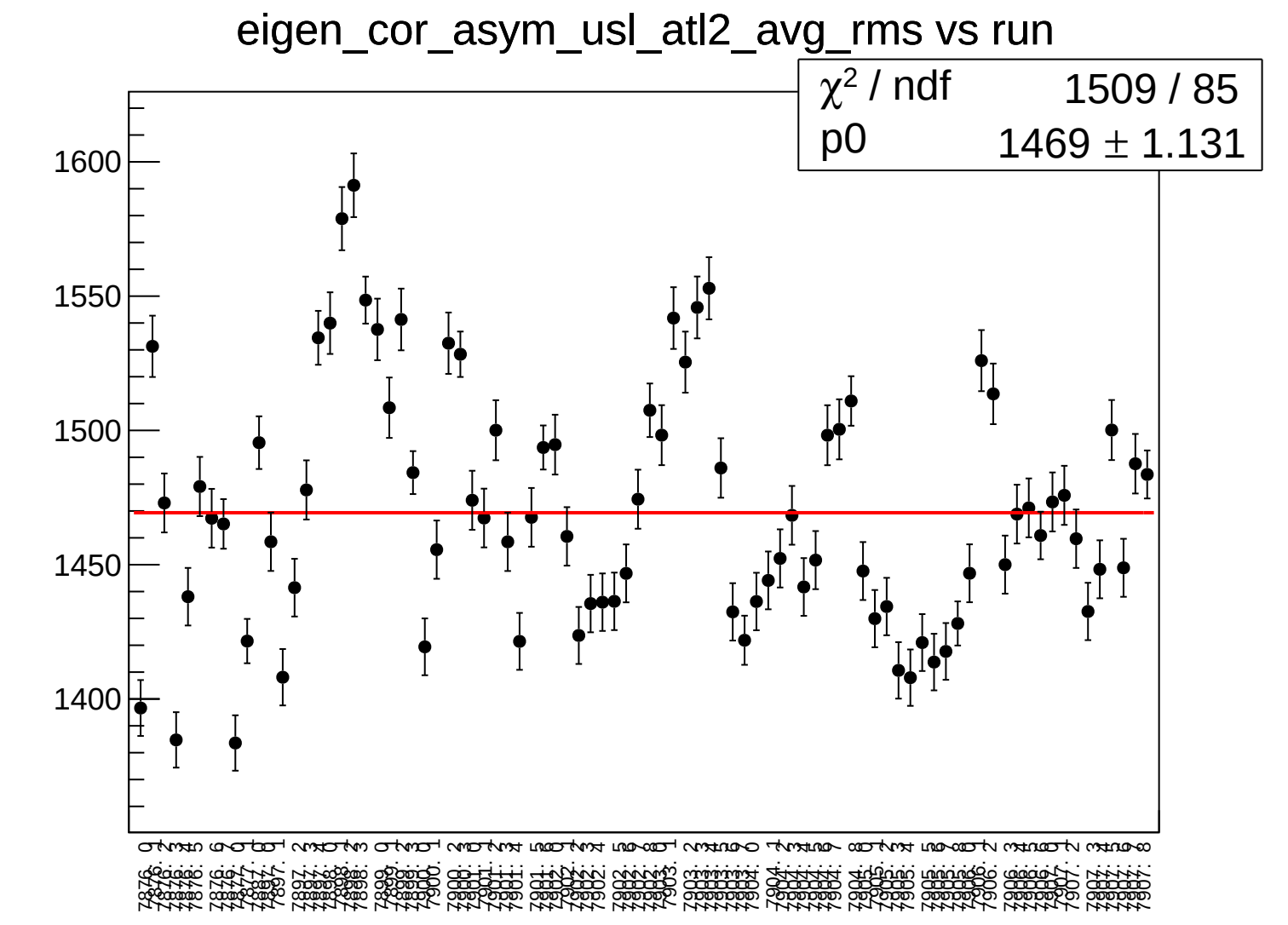

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 76.95 / 85
p0 6620 ± 6085
300
200
100
0
−100
−200
pull
Entries 86
Mean −272.8
Std Dev 0
3
2
1
0
−1
−2

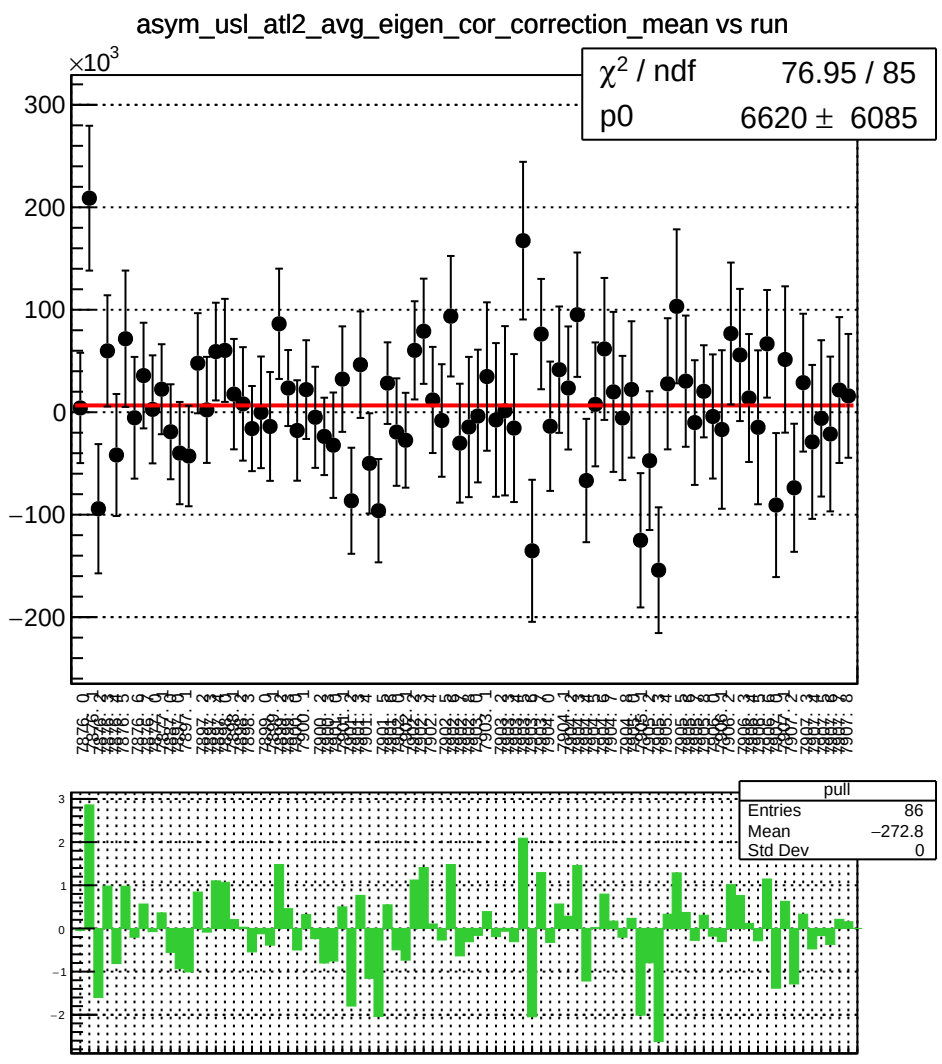

pull1D
Entries 86
Mean 0.004731
Std Dev 0.9459
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

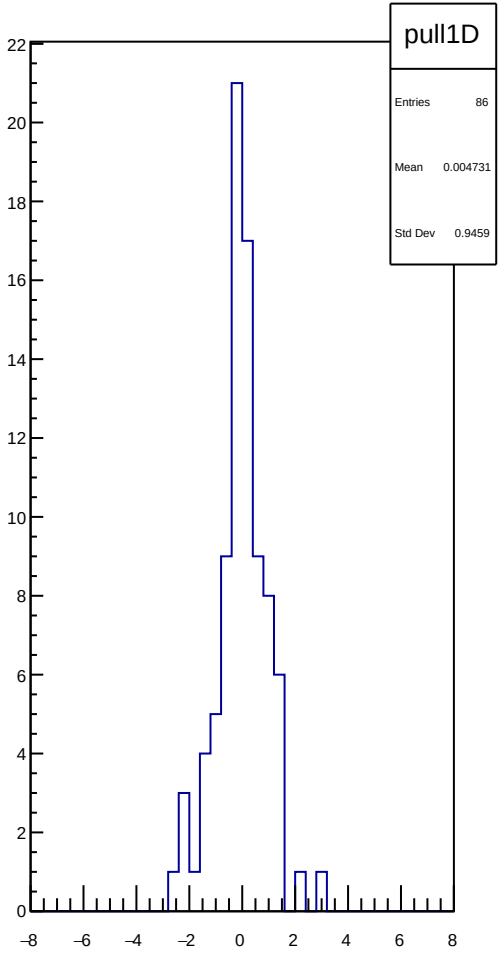

asym_usl_atl2_avg_cor_correction_rms vs run
χ^2 / ndf 3.532e+04 / 85
p0 5532 ± 4.303
8000
7500
7000
6500
6000
5500
5000
4500

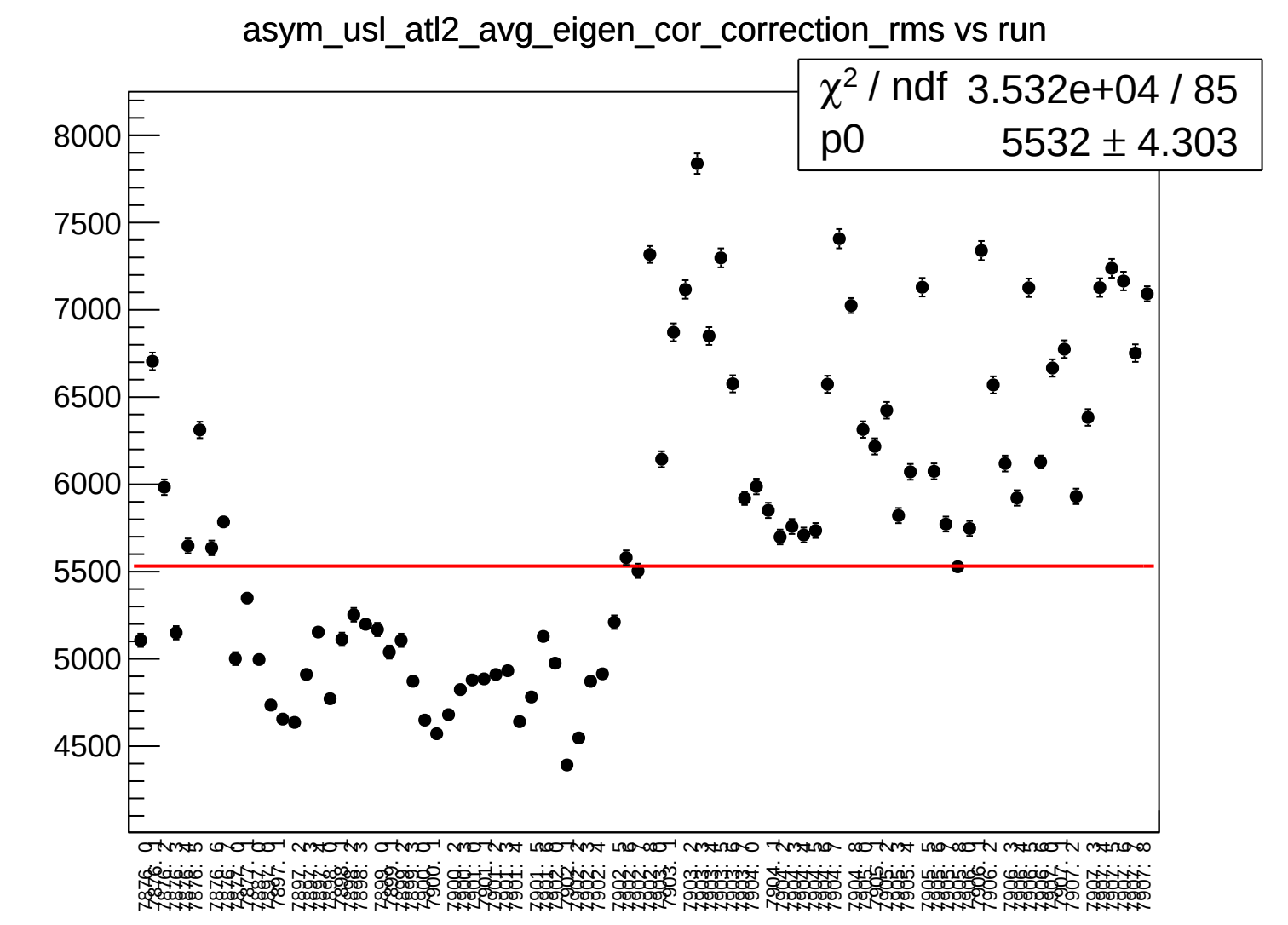

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 89.06 / 85
p0 1638 ± 1600
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −3080
Std Dev 0
3
2
1
0
−1
−2

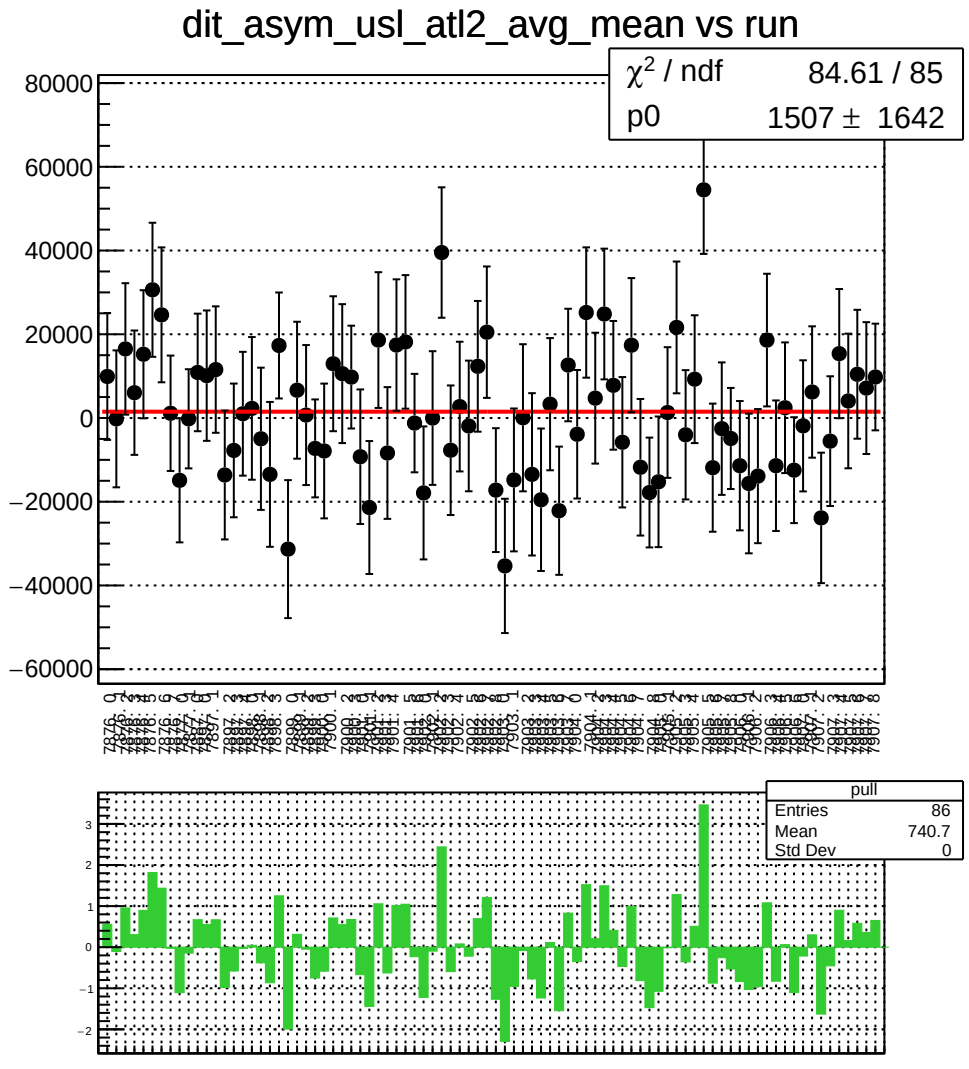

pull1D
Entries 86
Mean 0.0005822
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

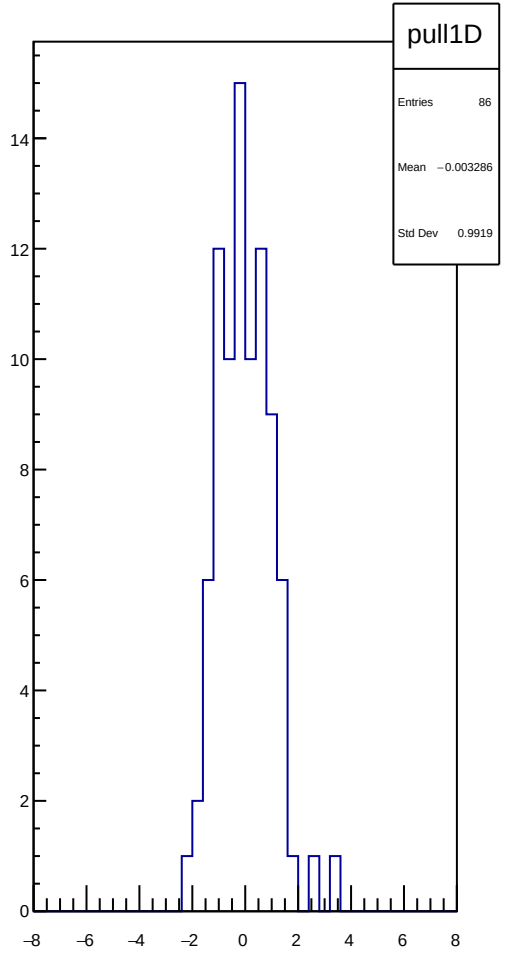

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 1509 / 85
p0 1469 ± 1.131
1600
1550
1500
1450
1400

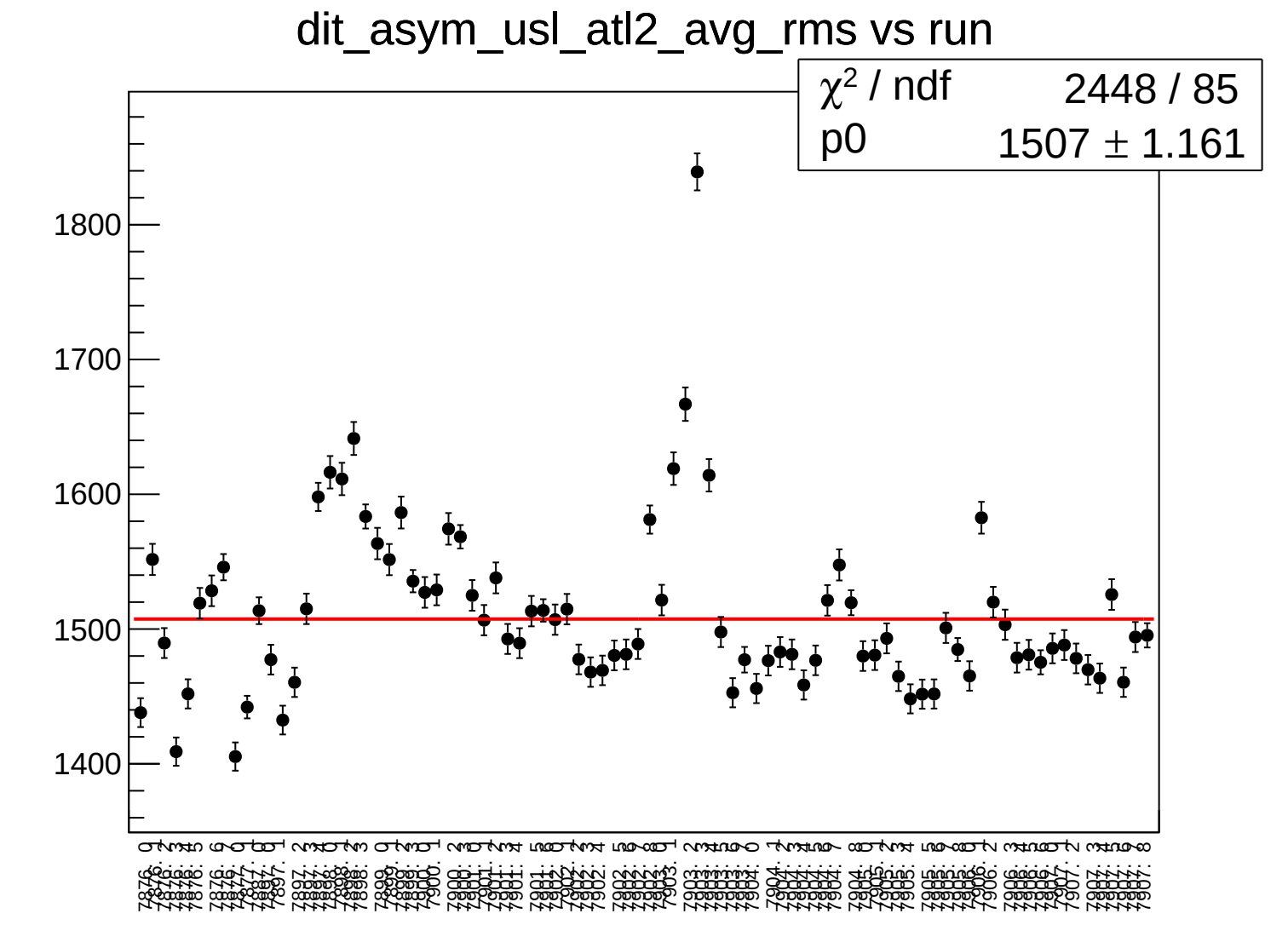

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.95 / 85
p0 6620 ± 6085
pull
Entries 86
Mean −272.8
Std Dev 0

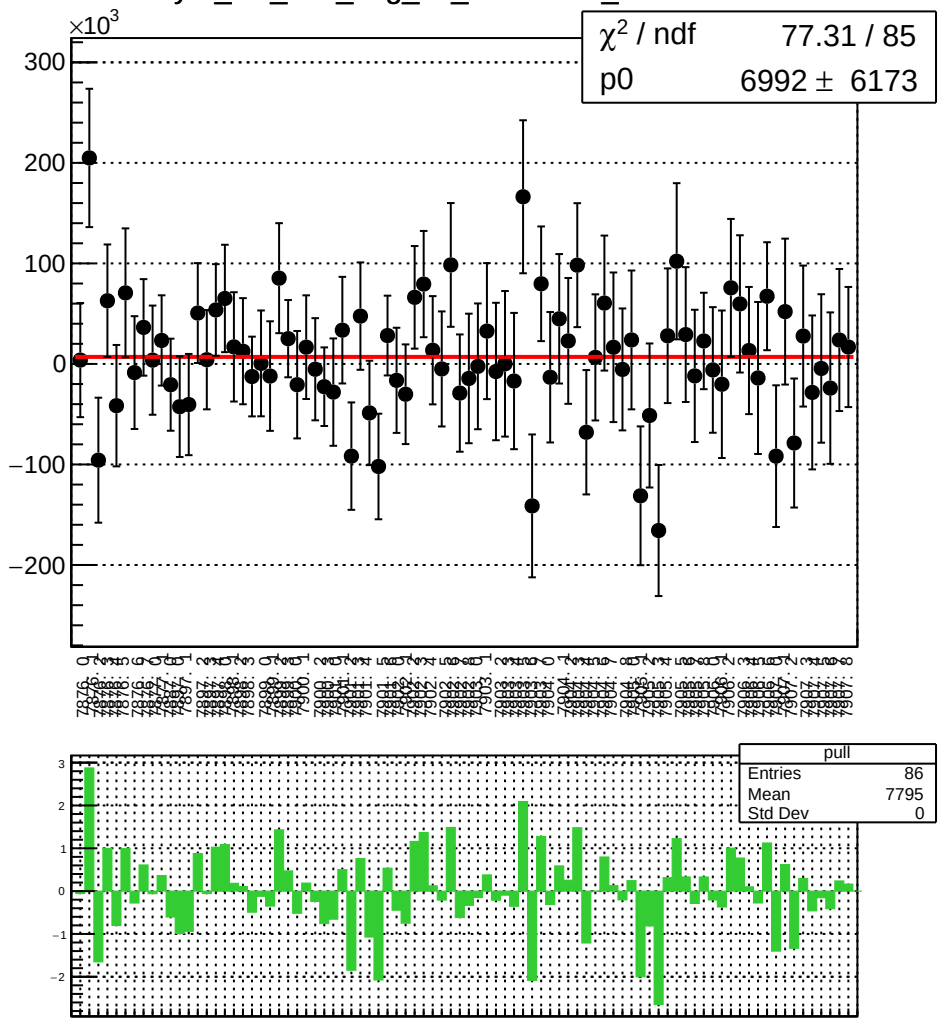

pull1D
Entries 86
Mean 0.004731
Std Dev 0.9459

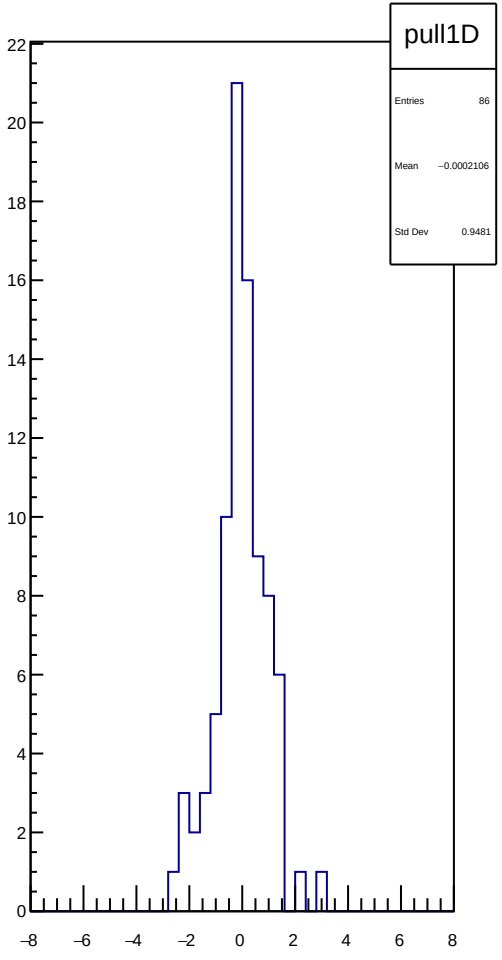

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.532e+04 / 85
p0 5532 ± 4.303
8000
7500
7000
6500
6000
5500
5000
4500


dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.61 / 85
p0 1507 ± 1642
pull
Entries 86
Mean 740.7
Std Dev 0


pull1D
Entries 86
Mean −0.003286
Std Dev 0.9919


dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 2448 / 85
p0 1507 ± 1.161
1800
1700
1600
1500
1400


asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.31 / 85
p0 6992 ± 6173
300
200
100
0
−100
−200
pull
Entries 86
Mean 7795
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.0002106
Std Dev 0.9481
22
20
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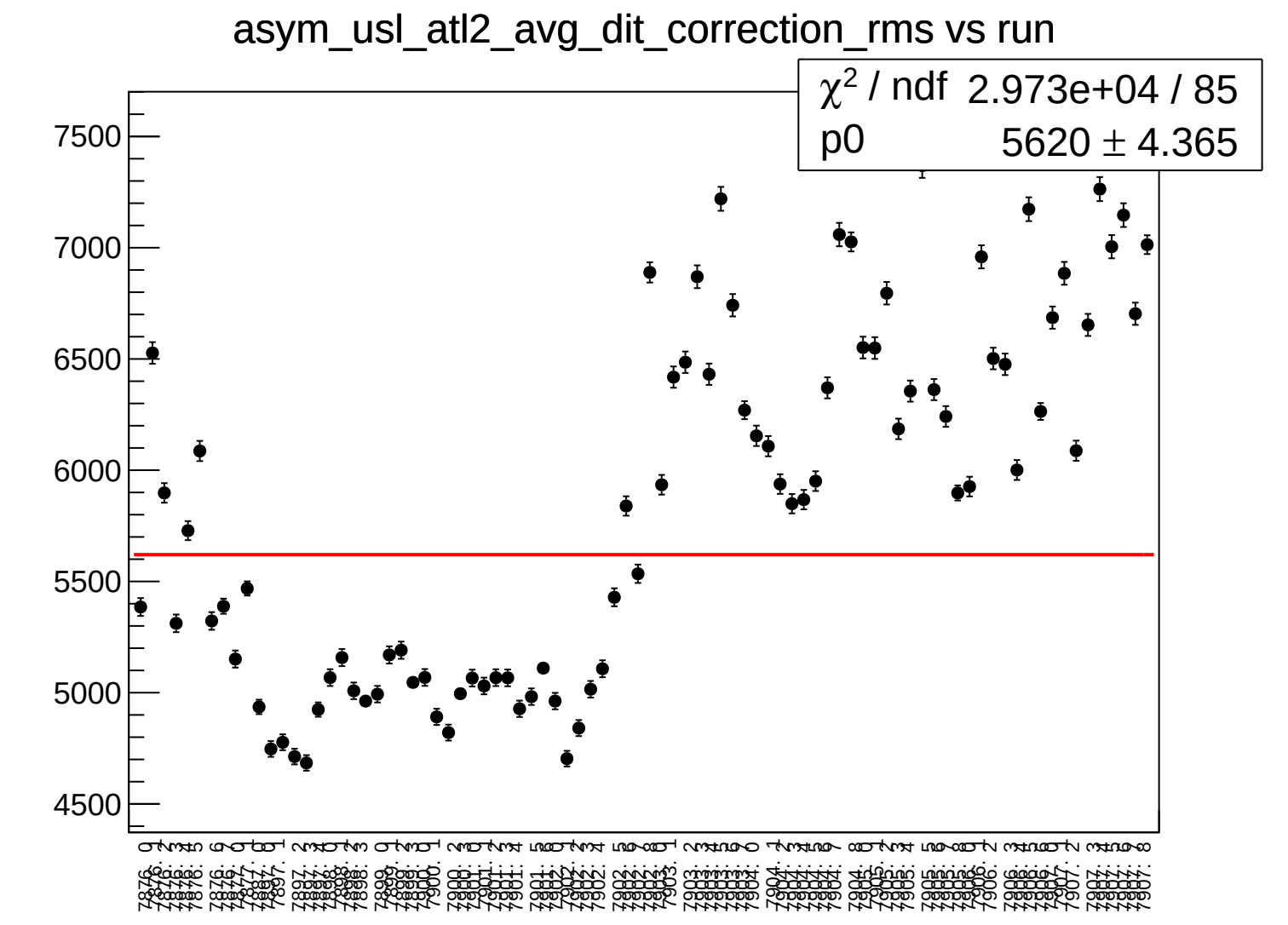
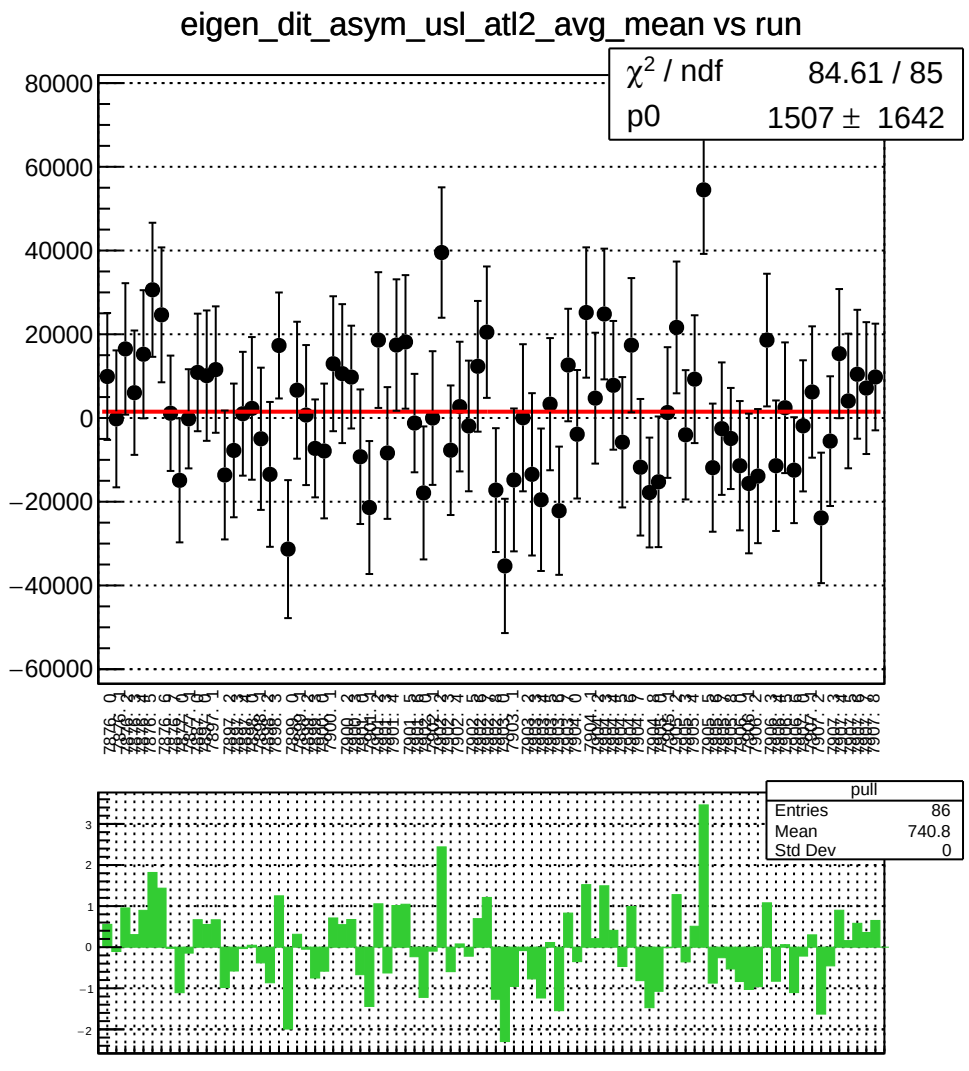
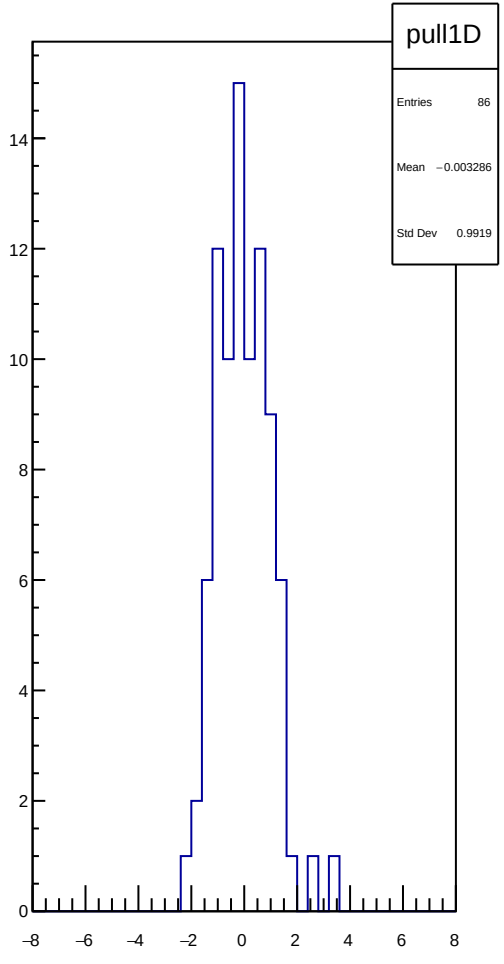
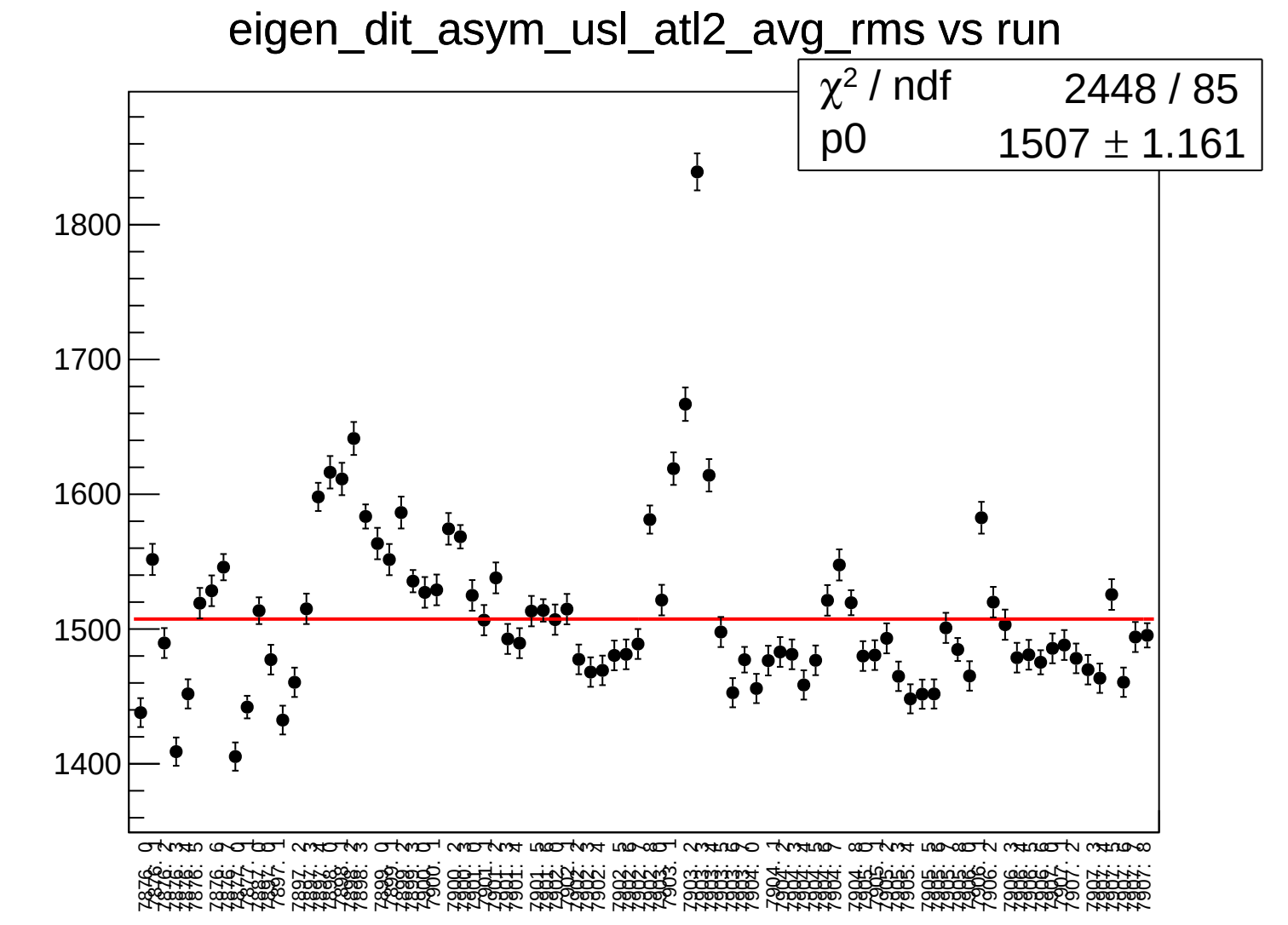
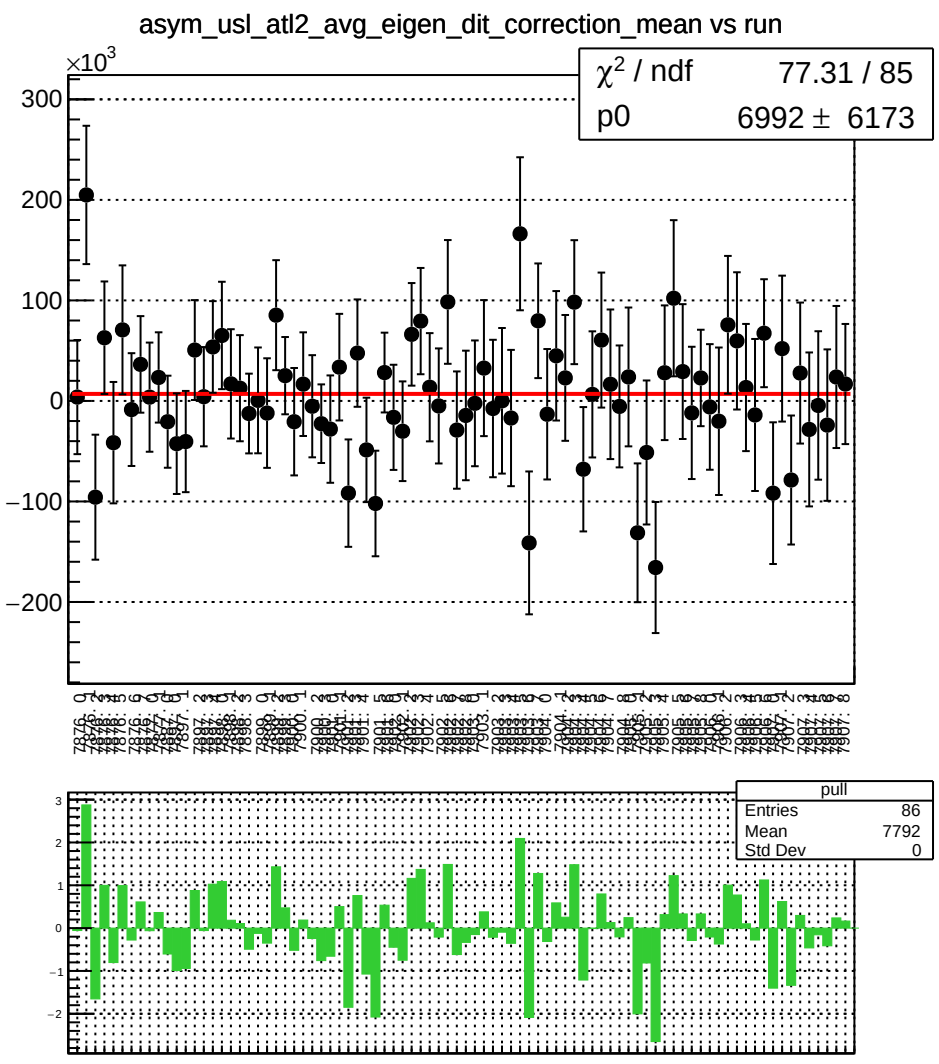
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

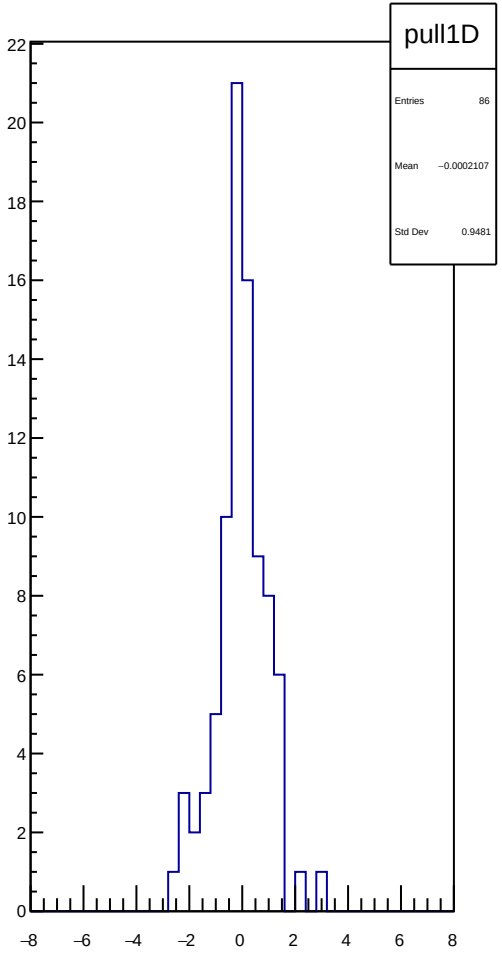

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 2.973e+04 / 85
p0 5620 ± 4.365
7500
7000
6500
6000
5500
5000
4500

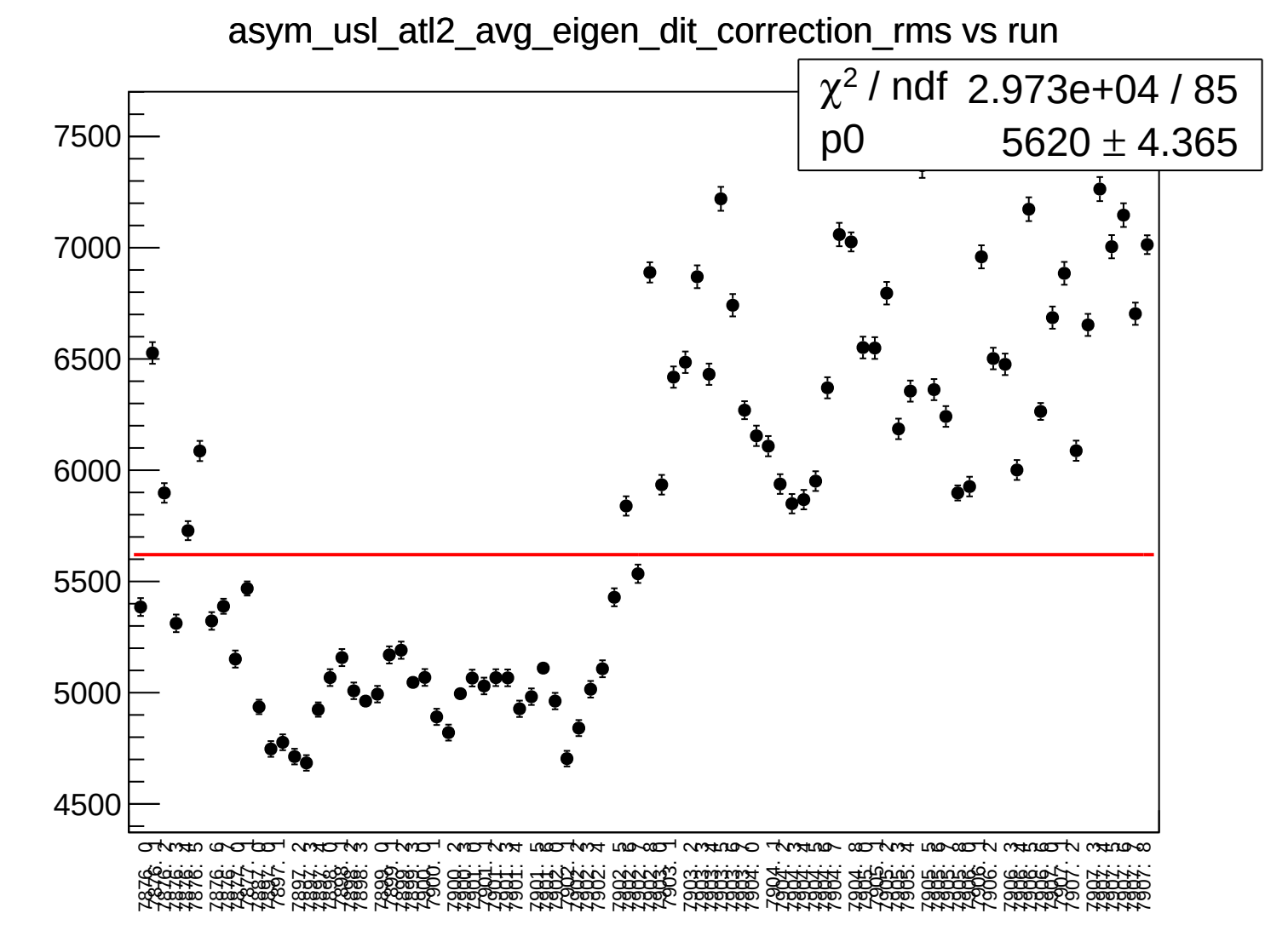

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.61 / 85
p0 1507 ± 1642
pull
Entries 86
Mean 740.8
Std Dev 0

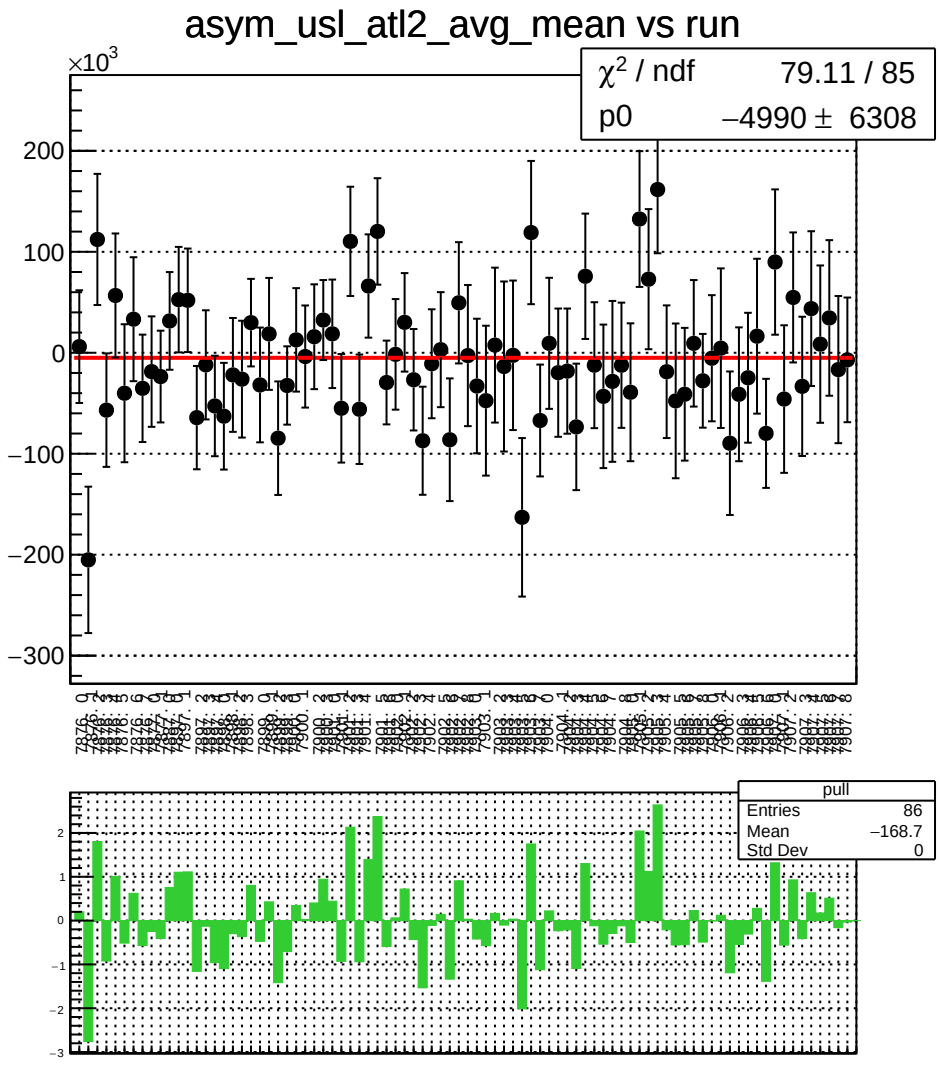

pull1D
Entries 86
Mean −0.003286
Std Dev 0.9919

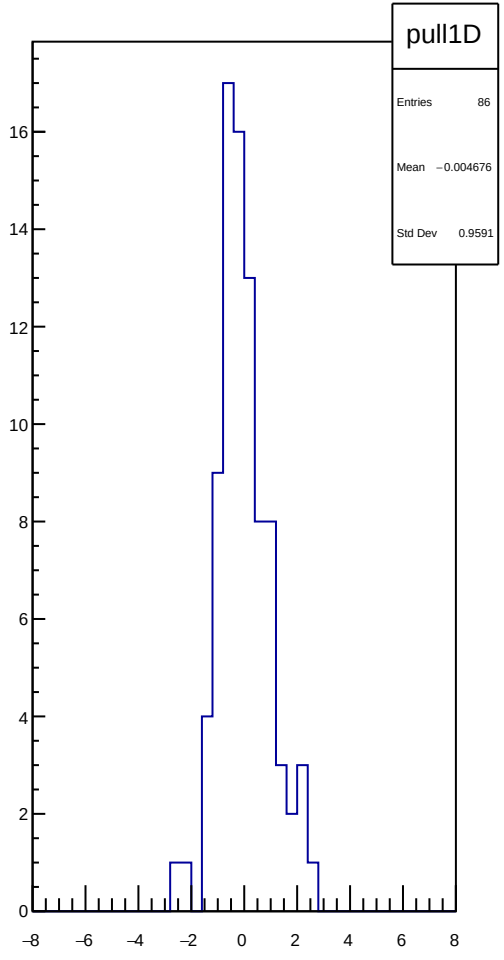

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 2448 / 85
p0 1507 ± 1.161
1800
1700
1600
1500
1400

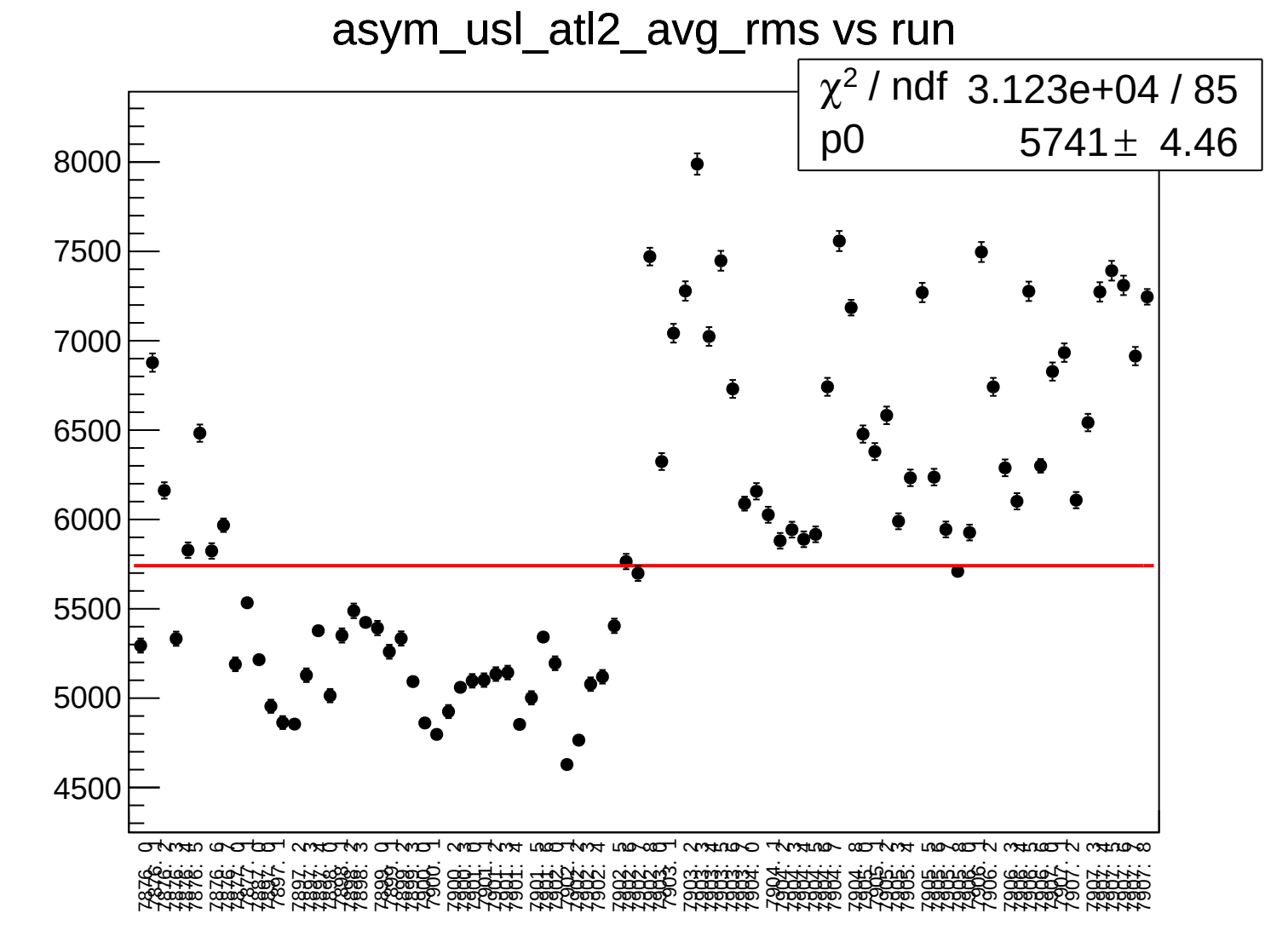

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.31 / 85
p0 6992 ± 6173
300
200
100
0
−100
−200
pull
Entries 86
Mean 7792
Std Dev 0
3
2
1
0
−1
−2

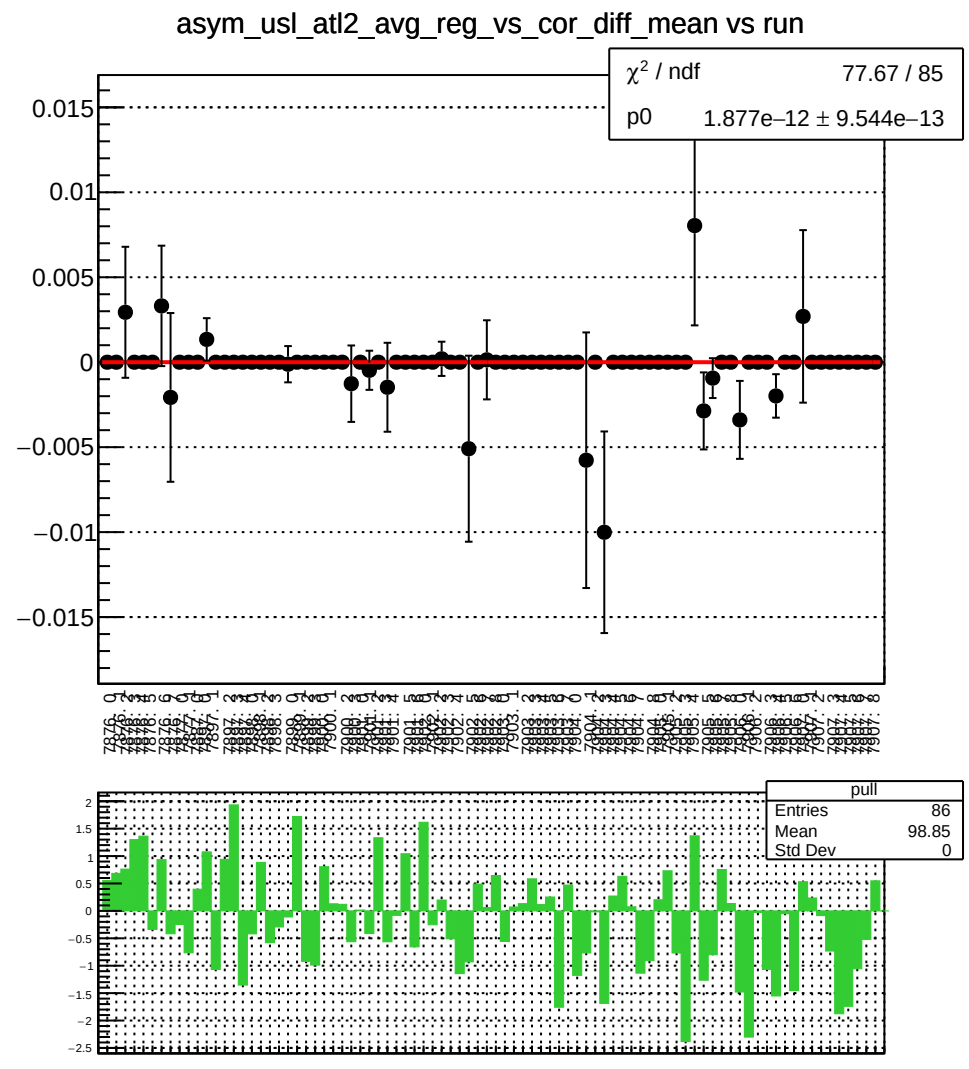

pull1D
Entries 86
Mean −0.0002107
Std Dev 0.9481
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

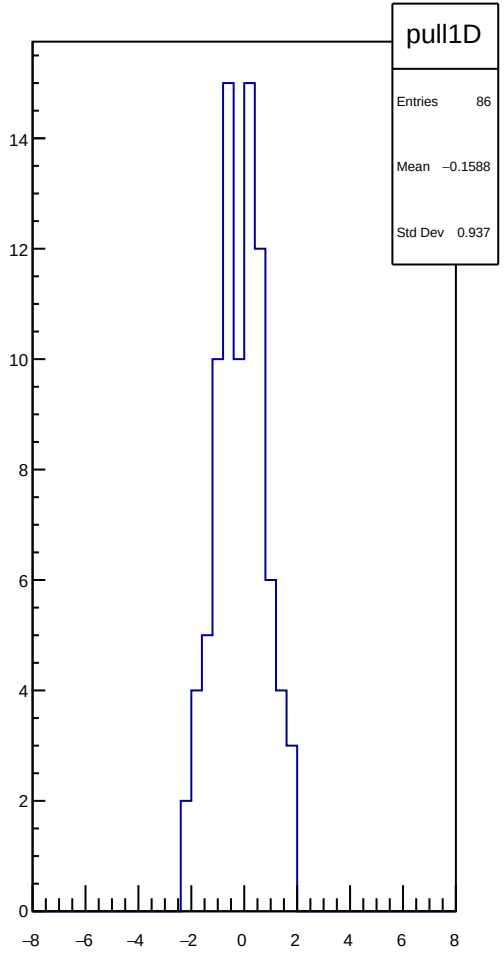

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.973e+04 / 85
p0 5620 ± 4.365
7500
7000
6500
6000
5500
5000
4500

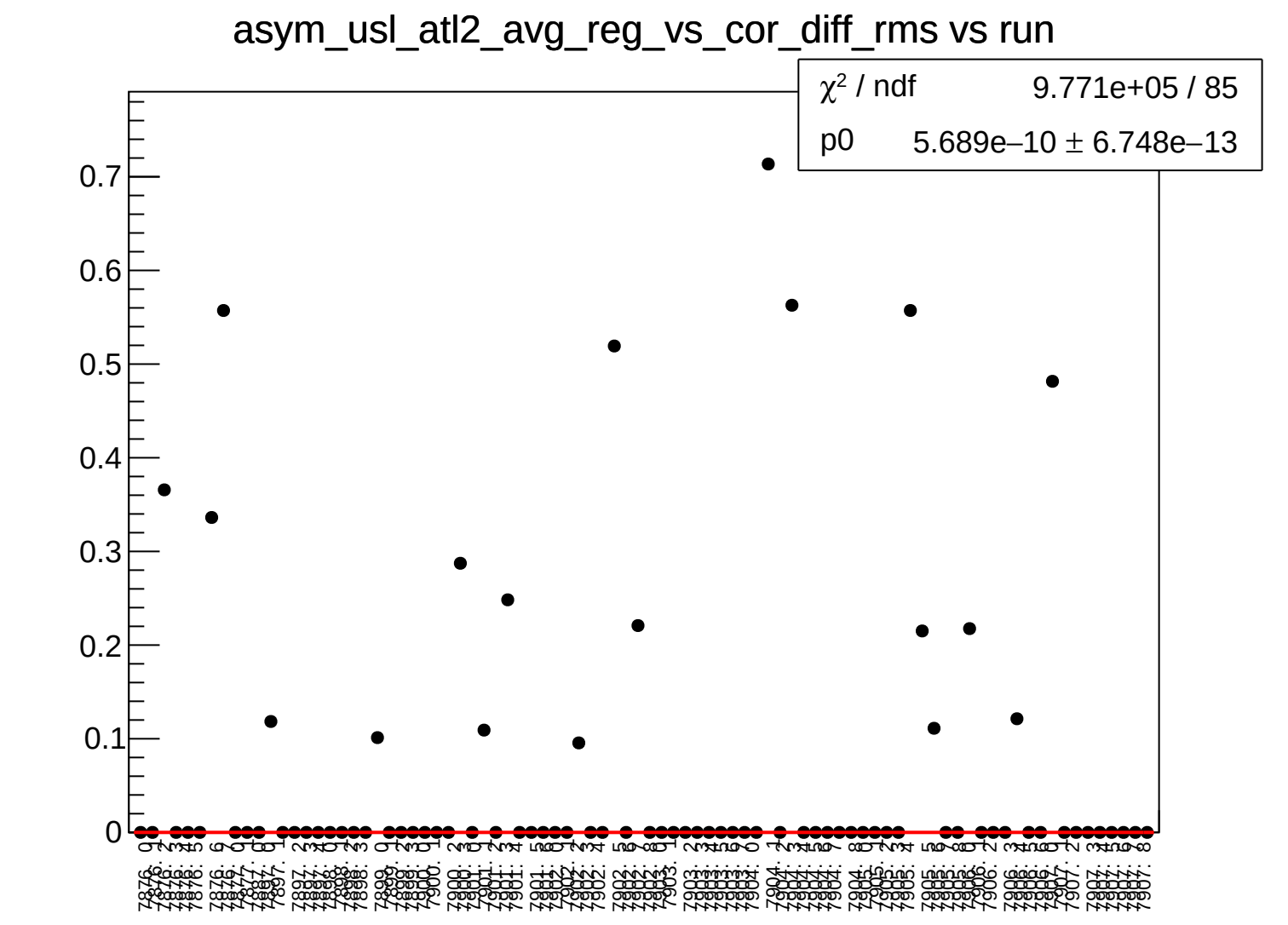

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 79.11 / 85
p0 −4990 ± 6308
200
100
0
−100
−200
−300
pull
Entries 86
Mean −168.7
Std Dev 0
2
1
0
−1
−2
−3

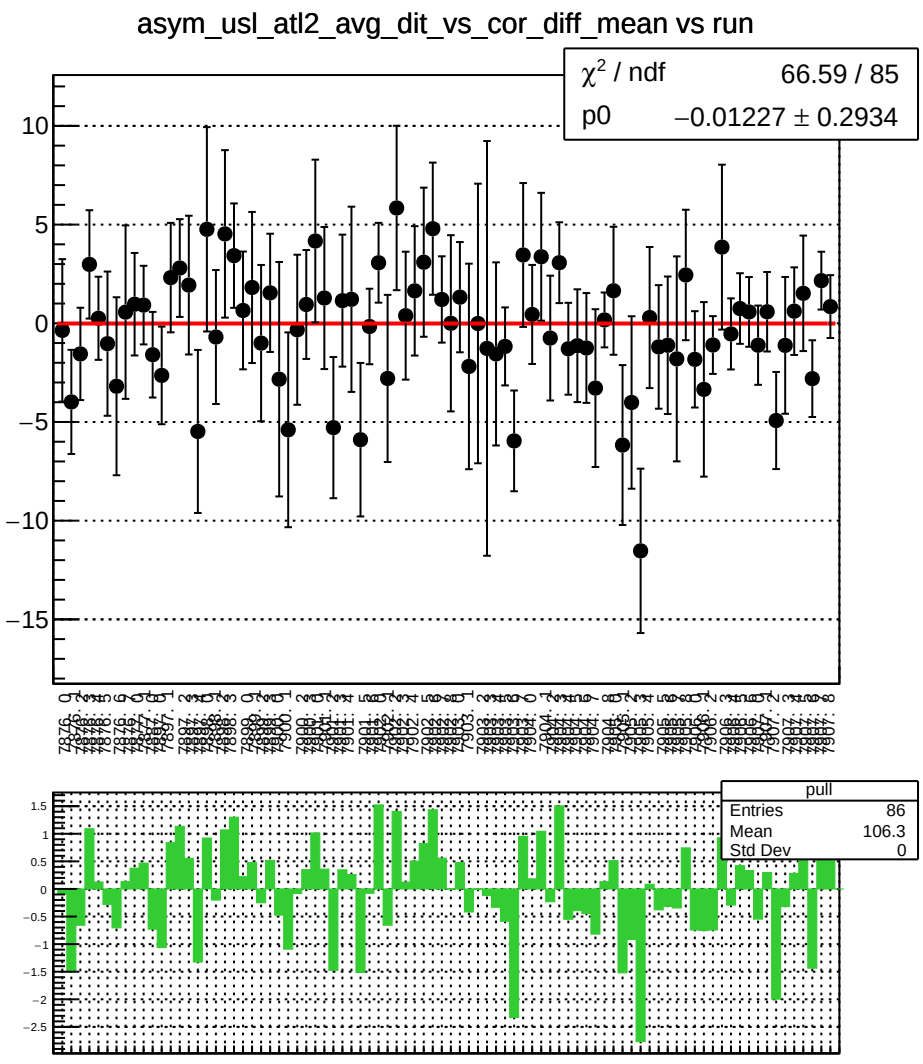

pull1D
Entries 86
Mean −0.004676
Std Dev 0.9591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

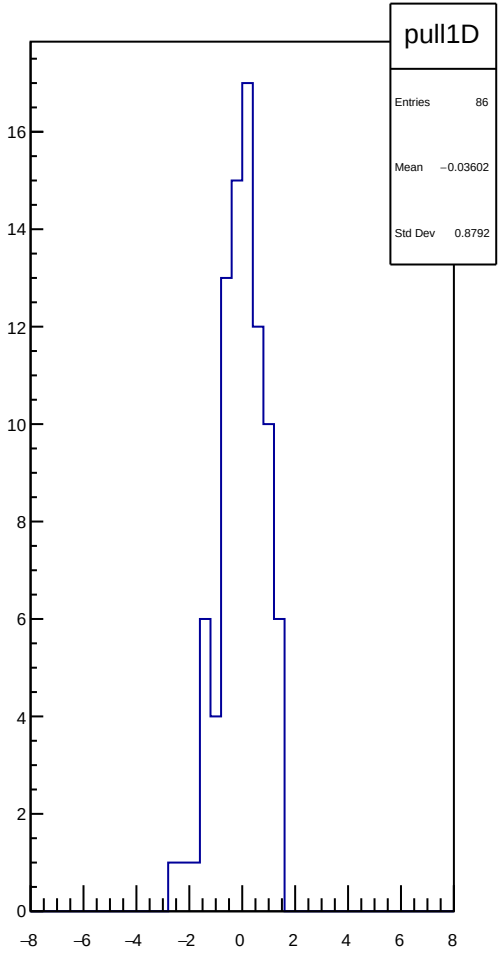

asym_usl_atl2_avg_rms vs run
χ² / ndf 3.123e+04 / 85
p0 5741 ± 4.46
8000
7500
7000
6500
6000
5500
5000
4500

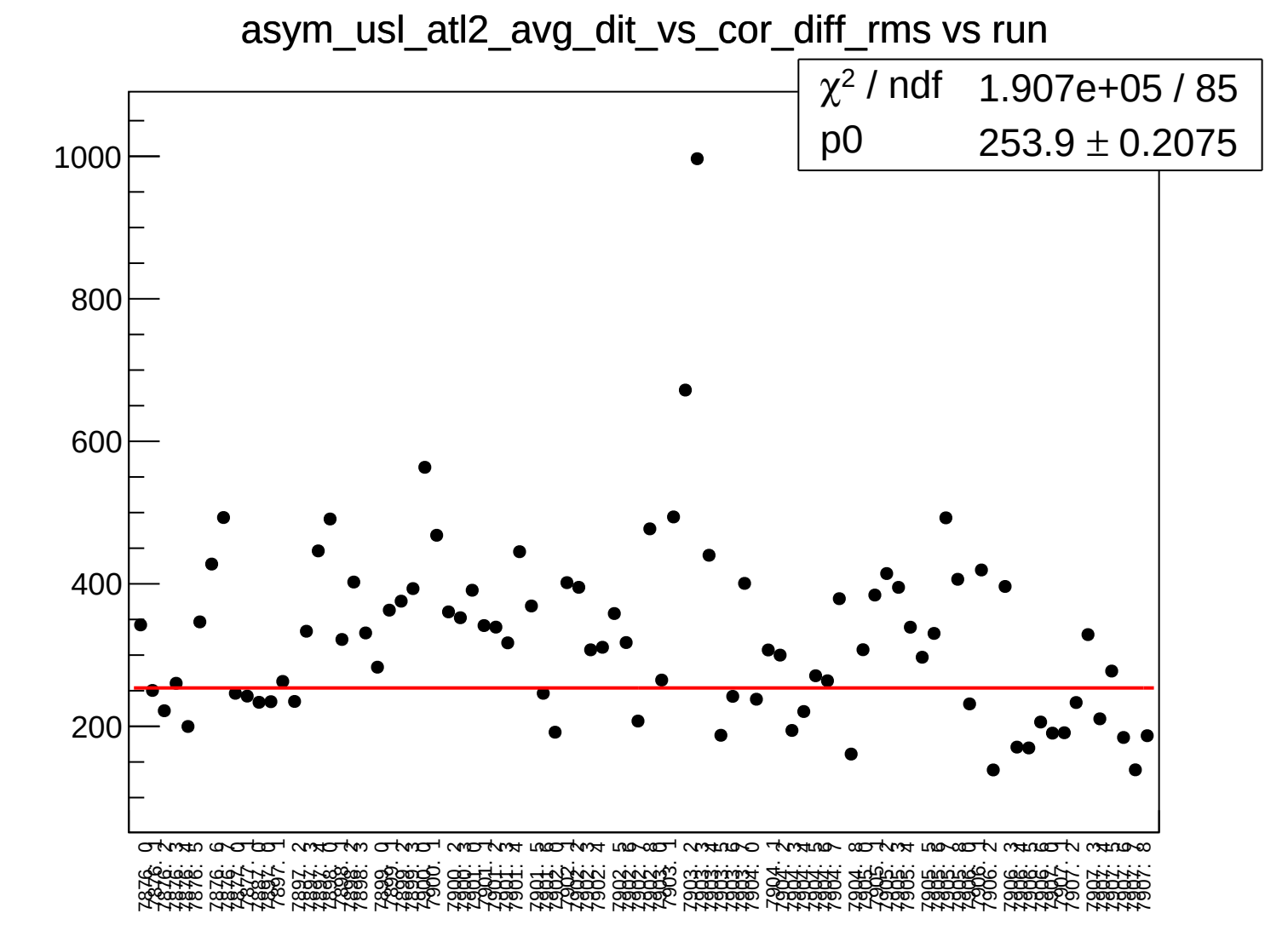

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.67 / 85
p0 1.877e−12 ± 9.544e−13
pull
Entries 86
Mean 98.85
Std Dev 0

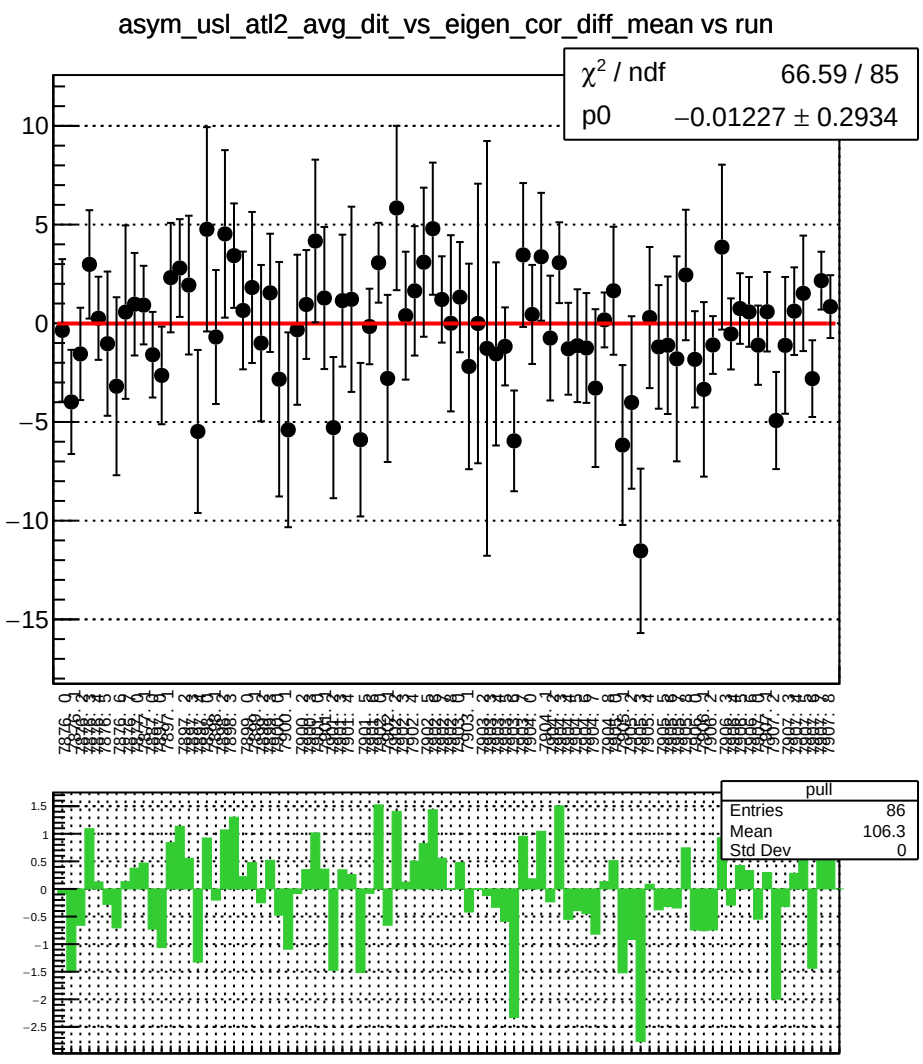

pull1D
Entries 86
Mean −0.1588
Std Dev 0.937

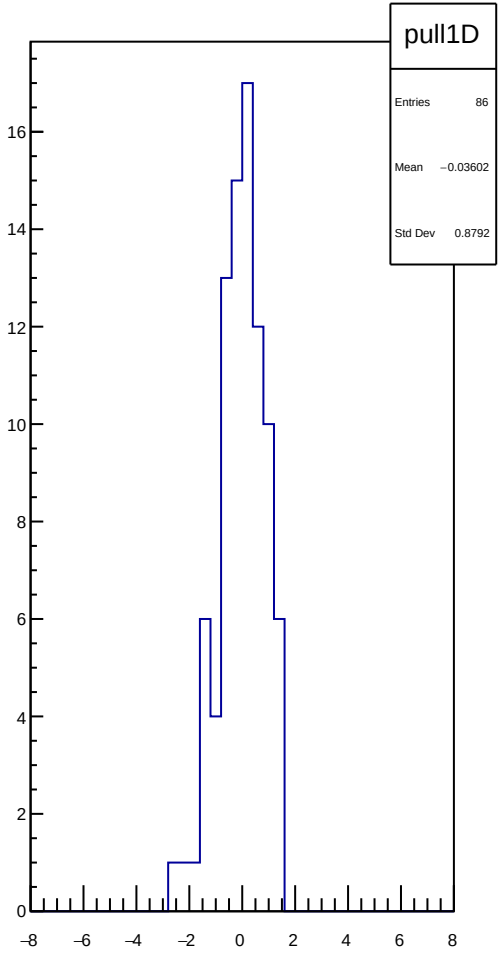

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.771e+05 / 85
p0 5.689e−10 ± 6.748e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

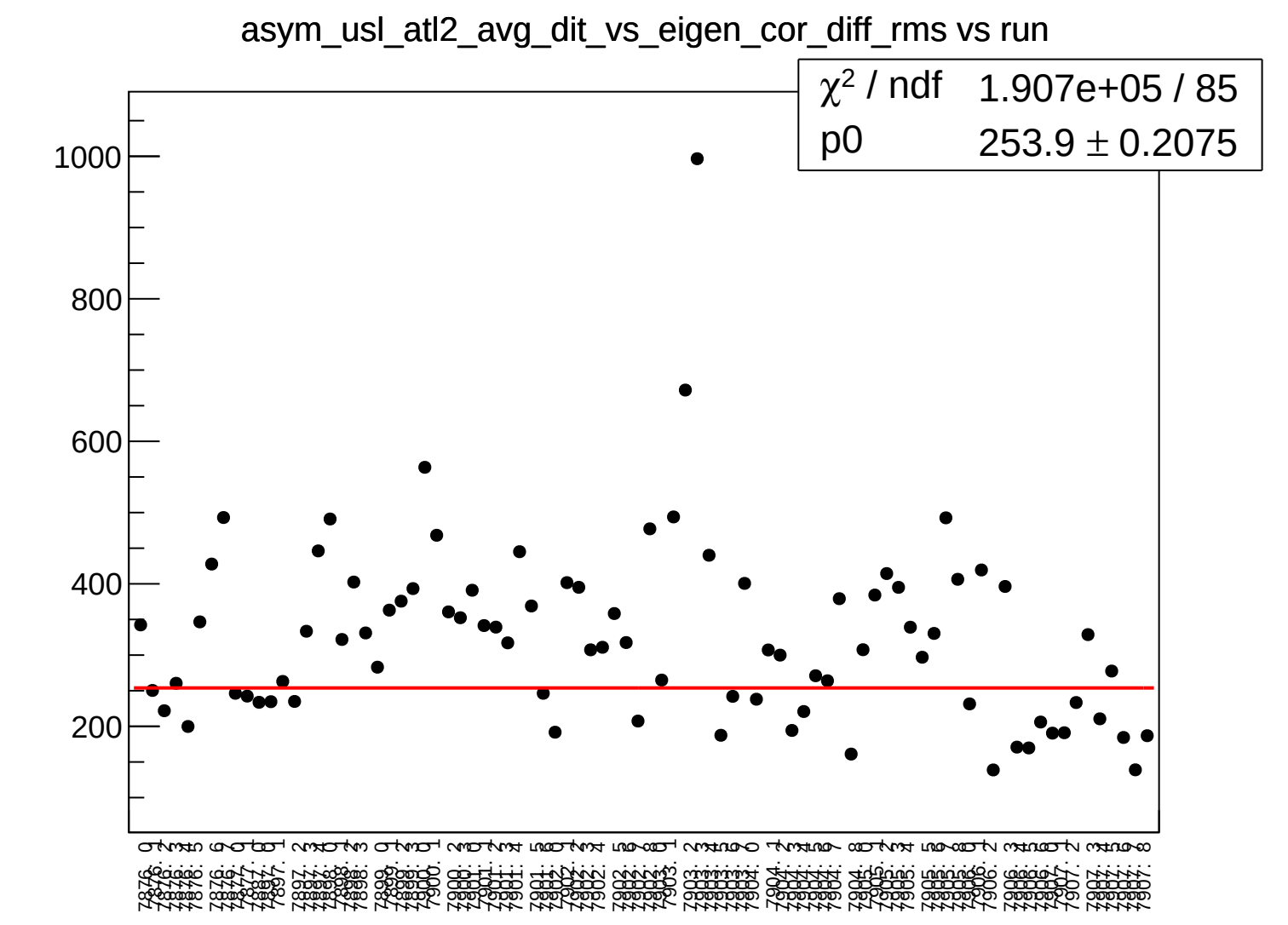

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.59 / 85
p0 −0.01227 ± 0.2934
pull
Entries 86
Mean 106.3
Std Dev 0

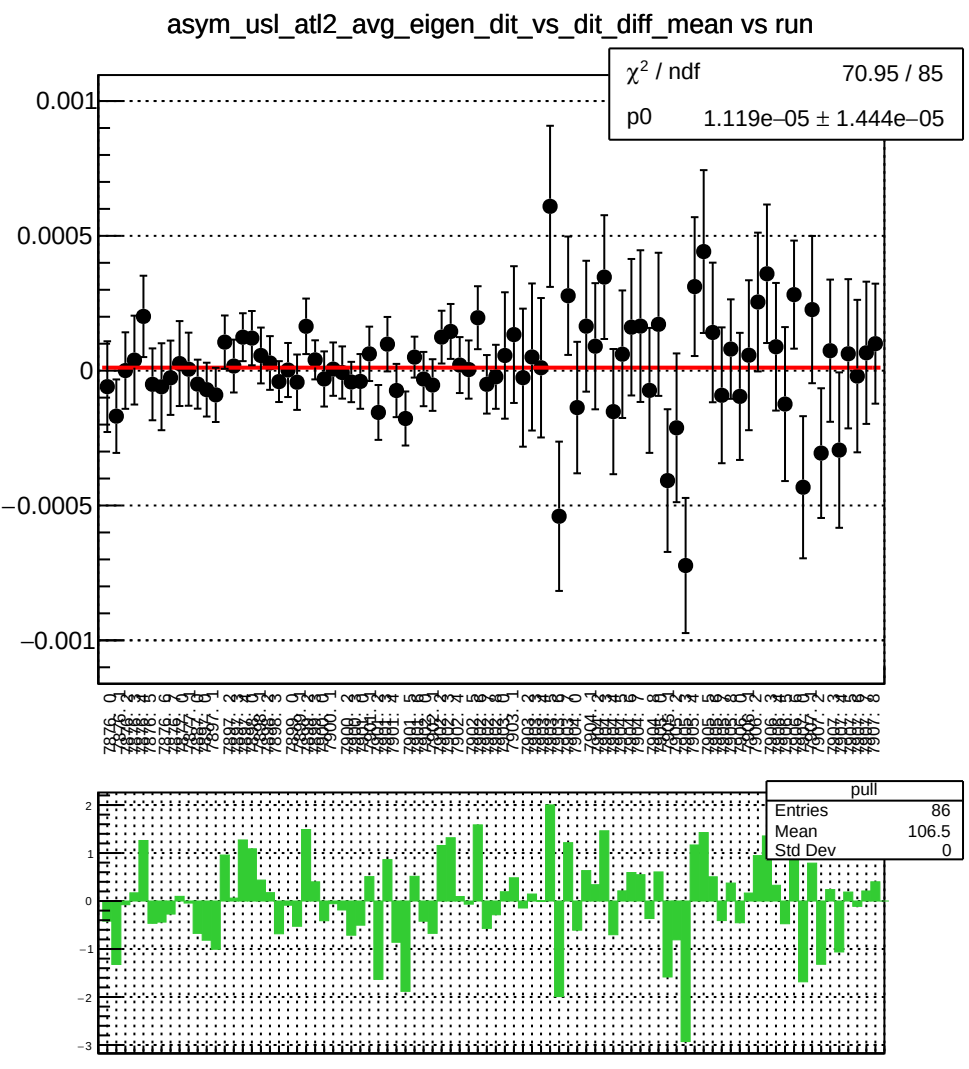

pull1D
Entries 86
Mean −0.03602
Std Dev 0.8792

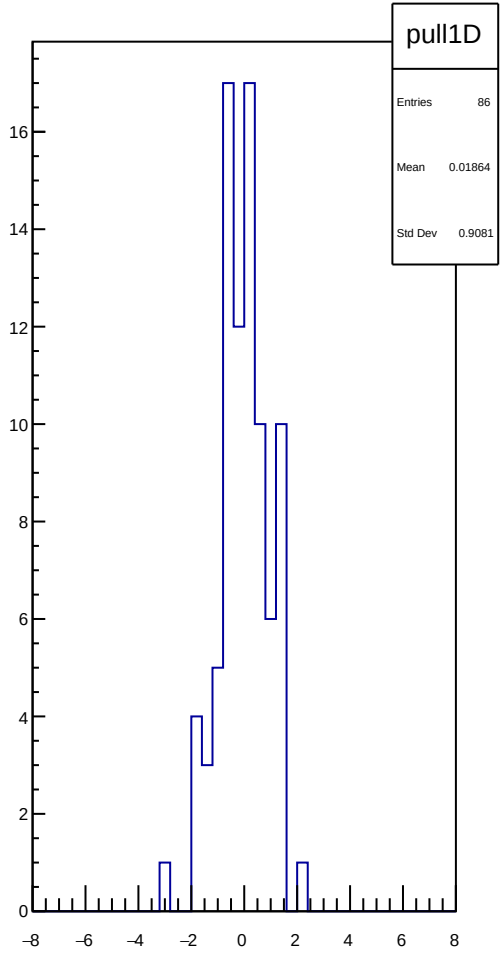

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.907e+05 / 85
p0 253.9 ± 0.2075
1000
800
600
400
200

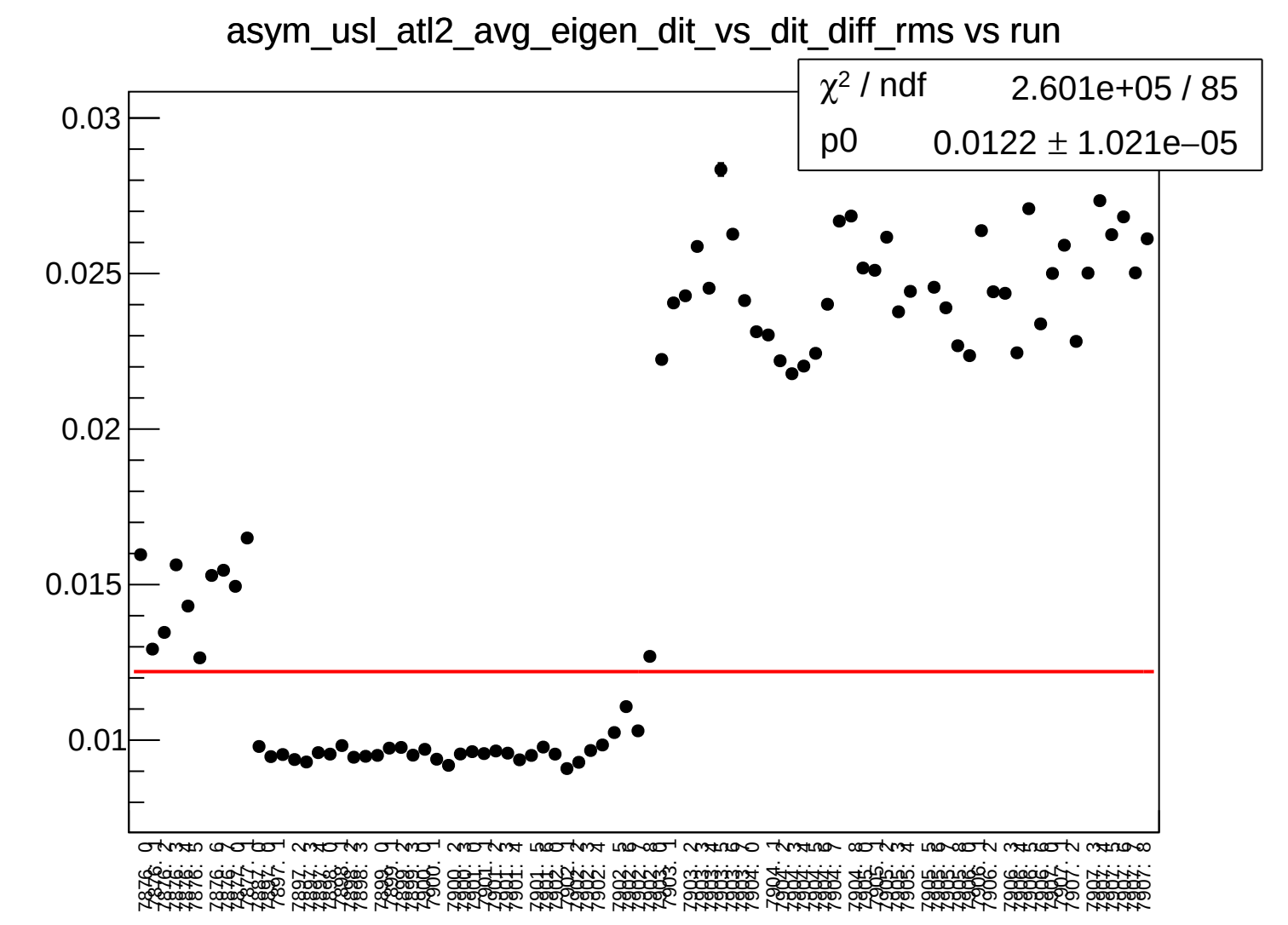

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.59 / 85
p0 −0.01227 ± 0.2934
pull
Entries 86
Mean 106.3
Std Dev 0

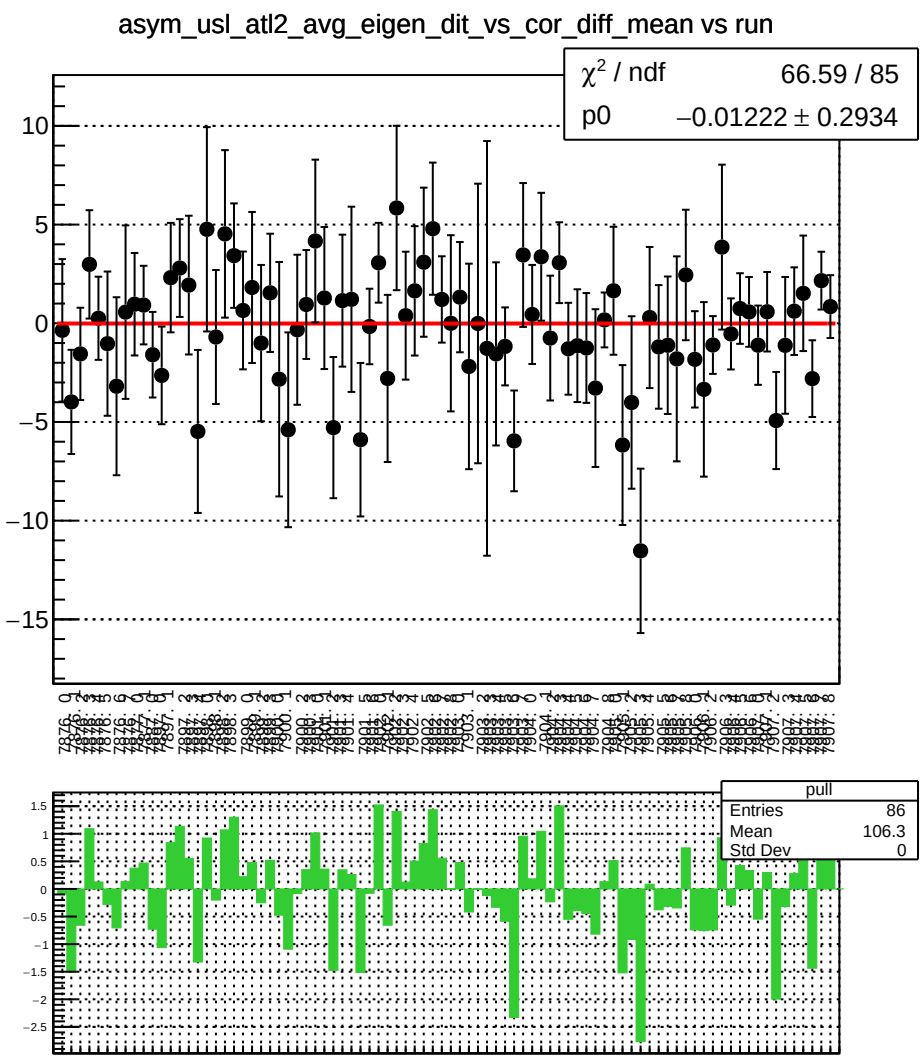

pull1D
Entries 86
Mean −0.03602
Std Dev 0.8792

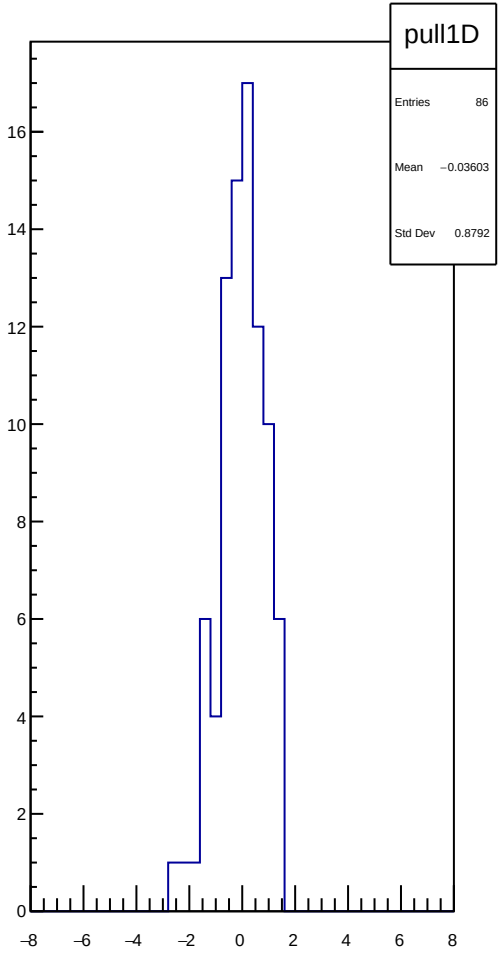

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.907e+05 / 85
p0 253.9 ± 0.2075
1000
800
600
400
200

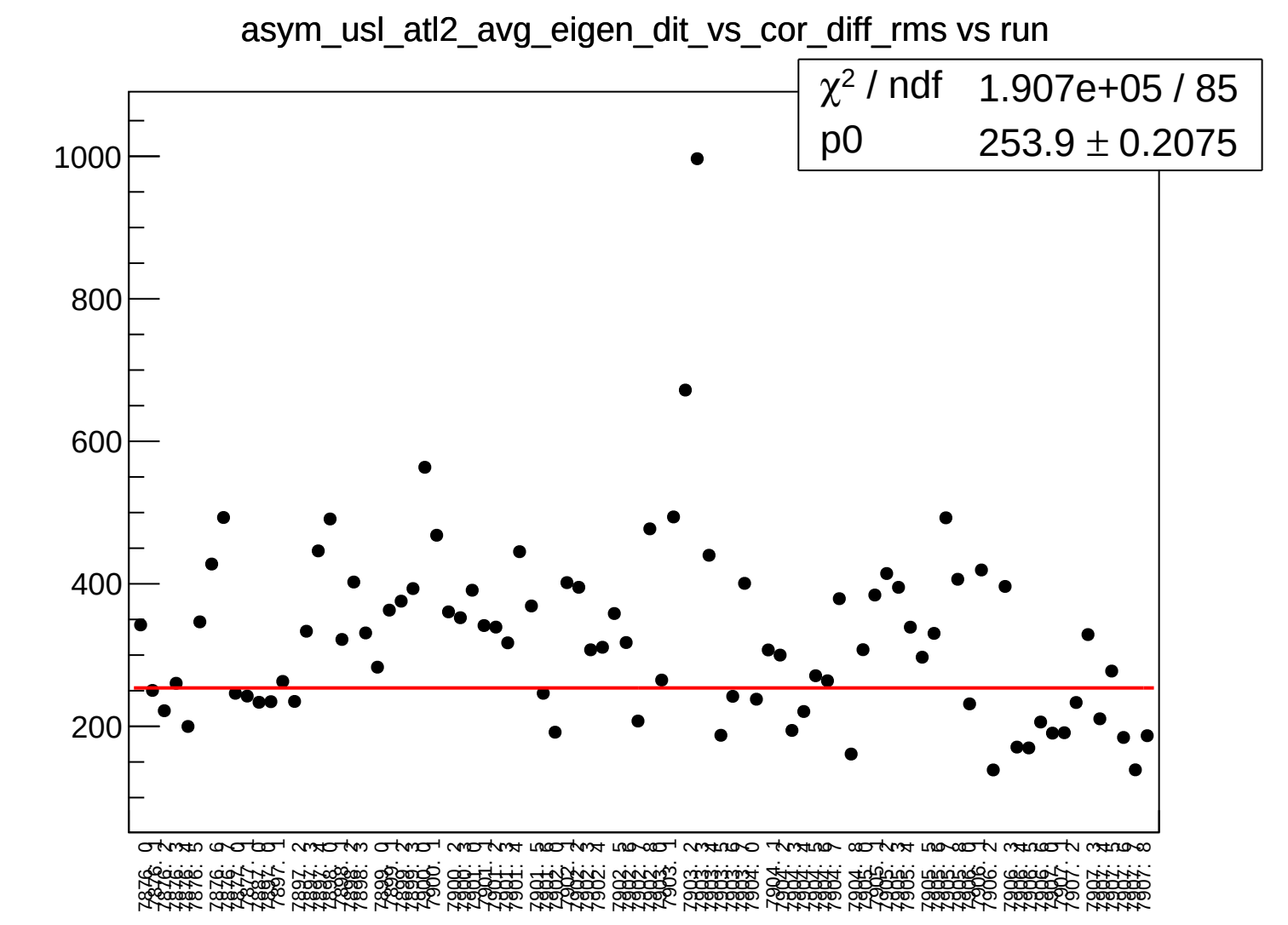

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.95 / 85
p0 1.119e−05 ± 1.444e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 106.5
Std Dev 0

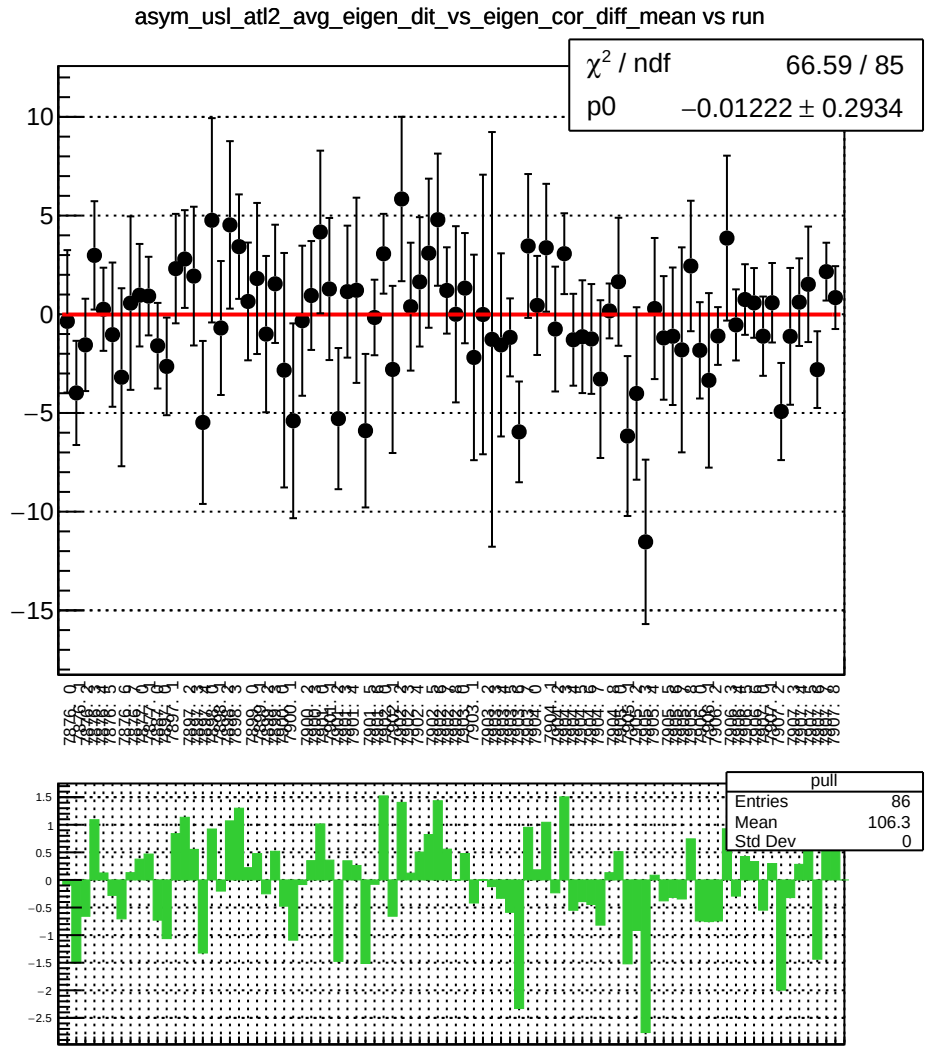

pull1D
Entries 86
Mean 0.01864
Std Dev 0.9081

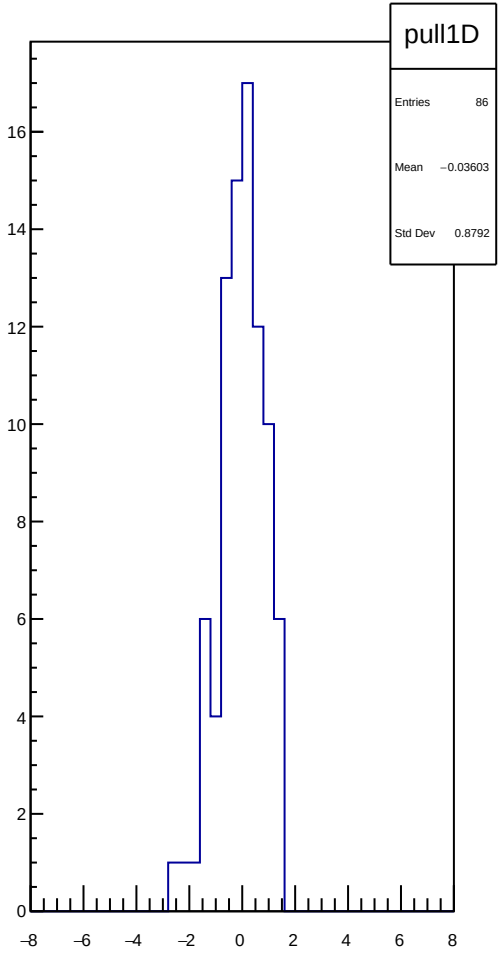

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.601e+05 / 85
p0 0.0122 ± 1.021e−05
0.03
0.025
0.02
0.015
0.01

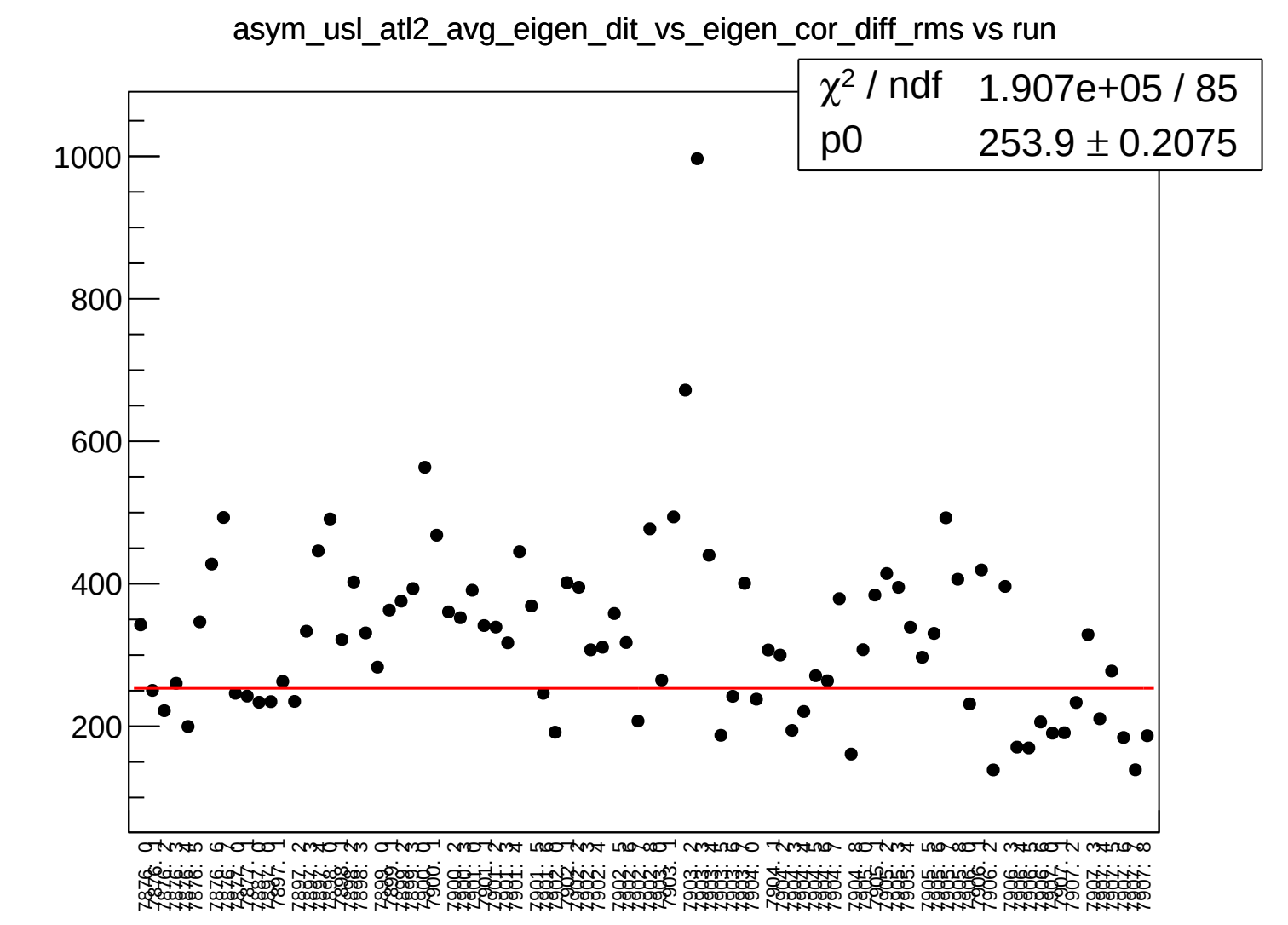

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.59 / 85
p0 −0.01222 ± 0.2934
pull
Entries 86
Mean 106.3
Std Dev 0

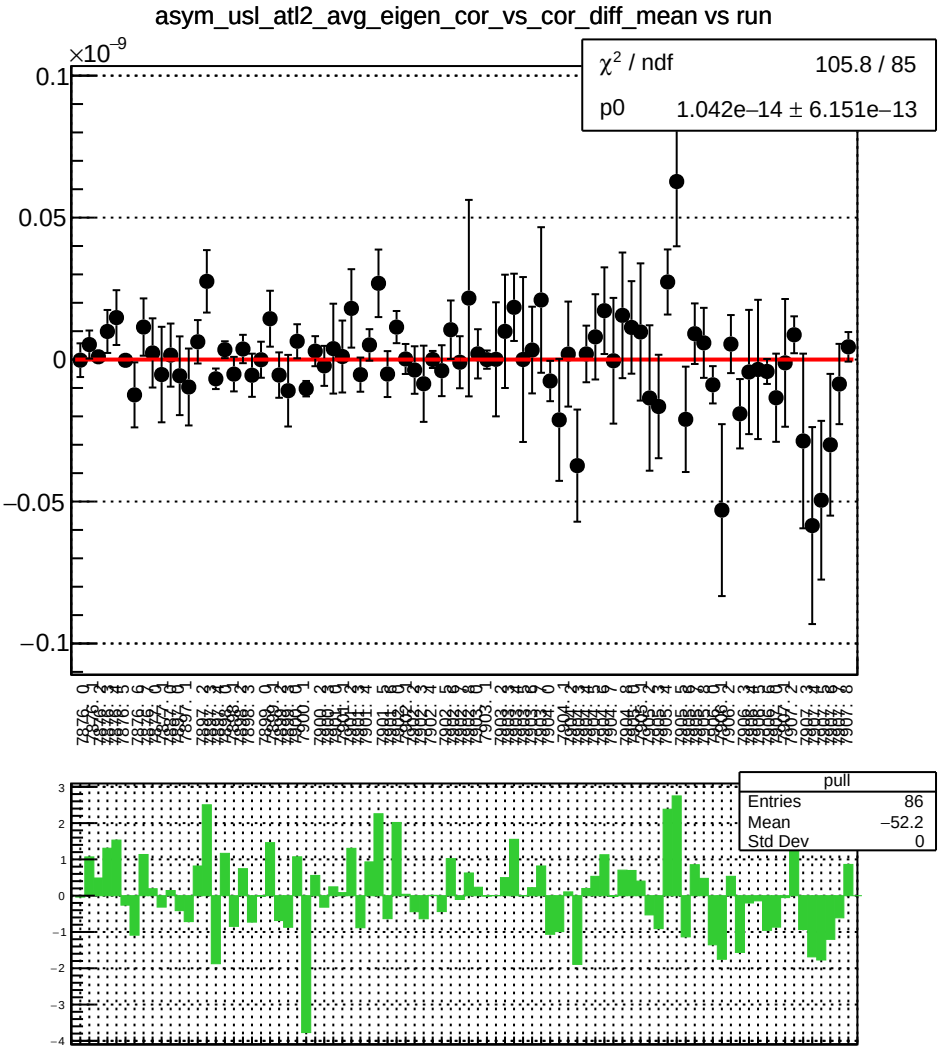

pull1D
Entries 86
Mean −0.03603
Std Dev 0.8792

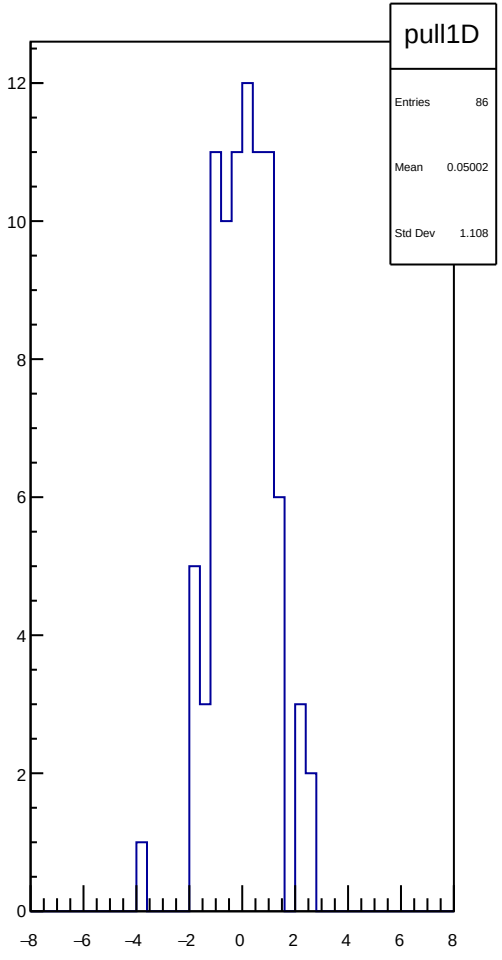

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.907e+05 / 85
p0 253.9 ± 0.2075
1000
800
600
400
200

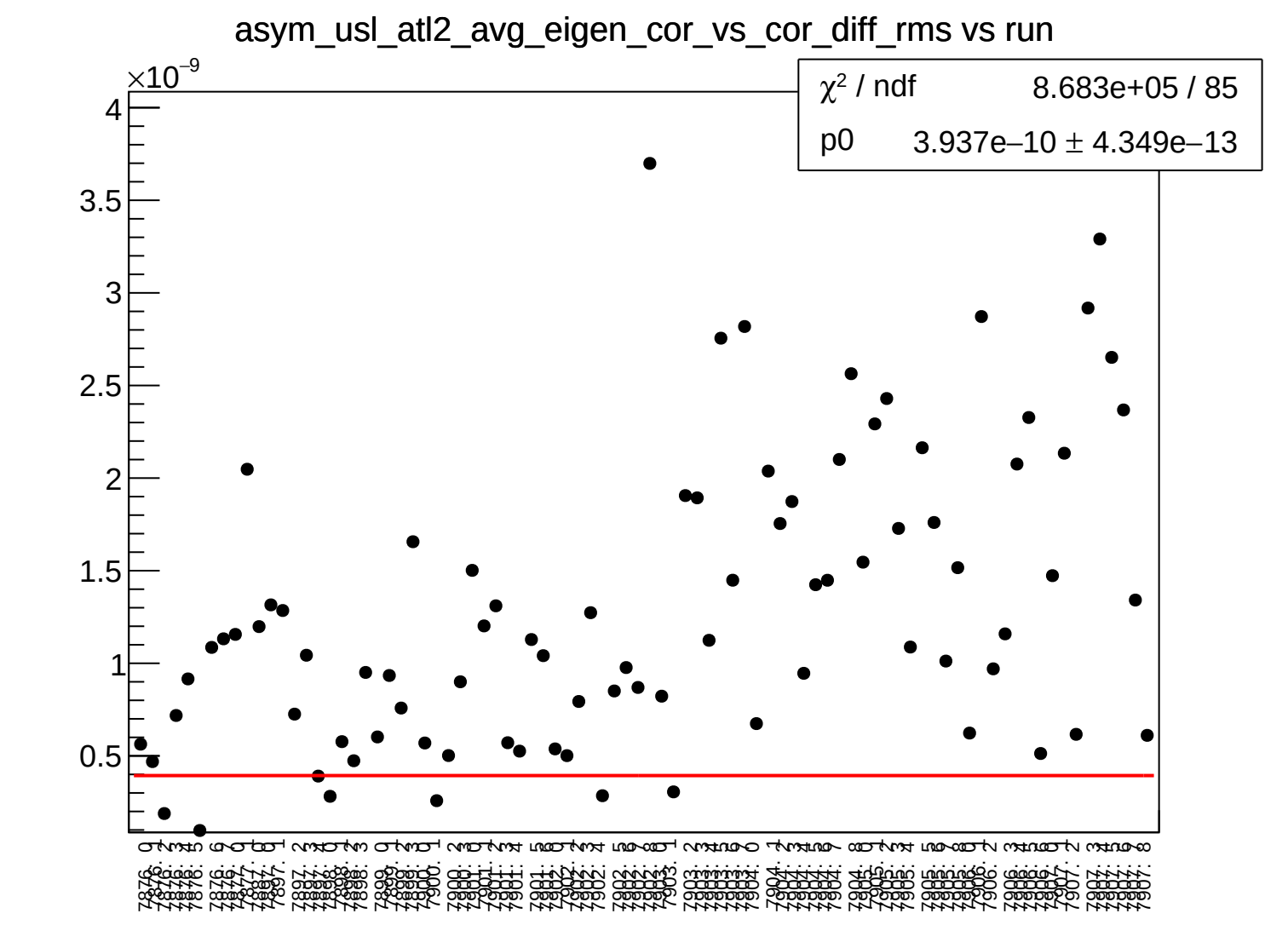

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.59 / 85
p0 −0.01222 ± 0.2934
pull
Entries 86
Mean 106.3
Std Dev 0

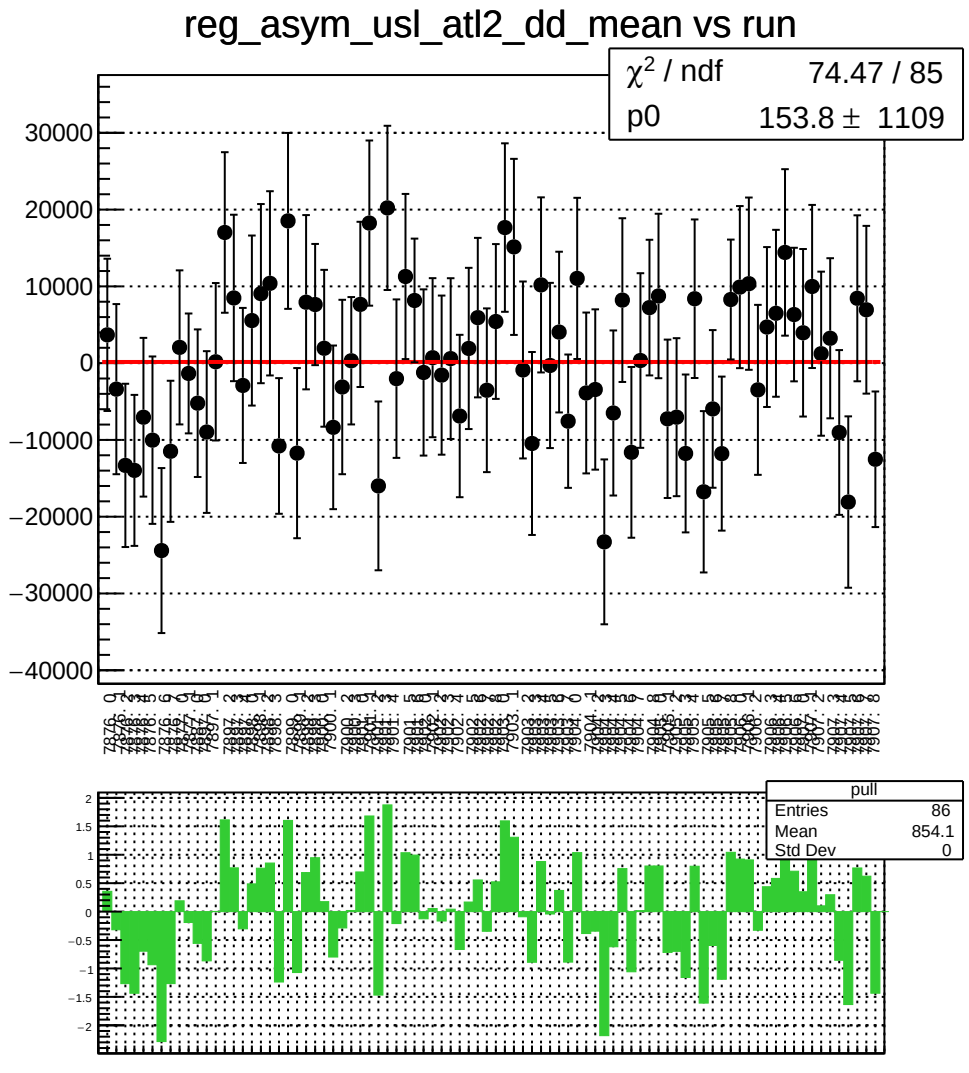

pull1D
Entries 86
Mean −0.03603
Std Dev 0.8792

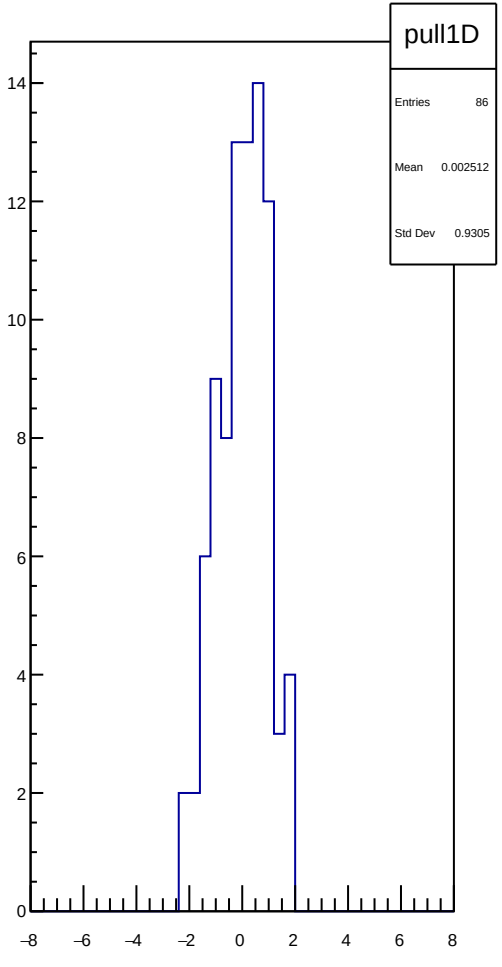

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.907e+05 / 85
p0 253.9 ± 0.2075
1000
800
600
400
200

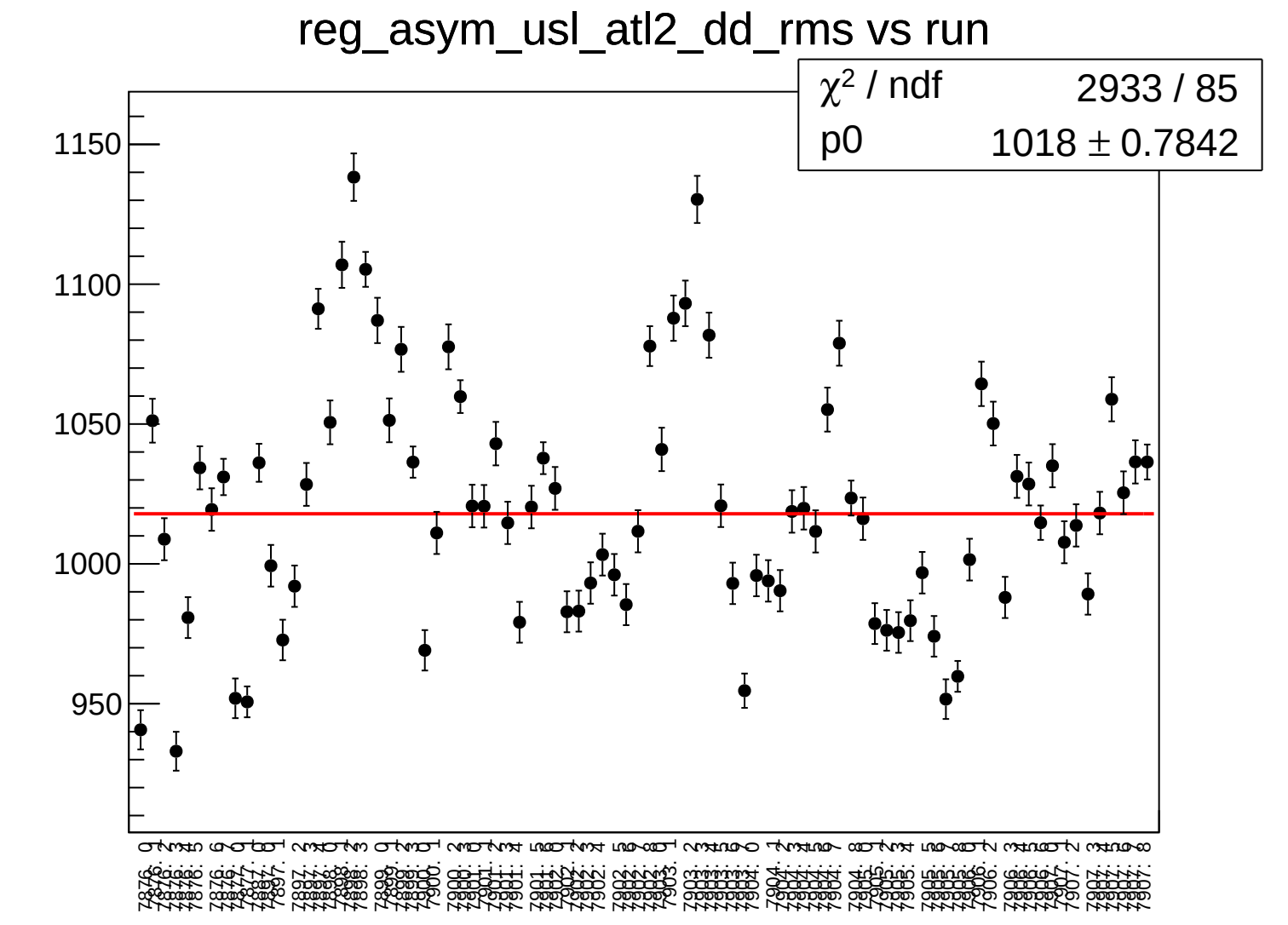

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 105.8 / 85
p0 1.042e−14 ± 6.151e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −52.2
Std Dev 0
3
2
1
0
−1
−2
−3
−4

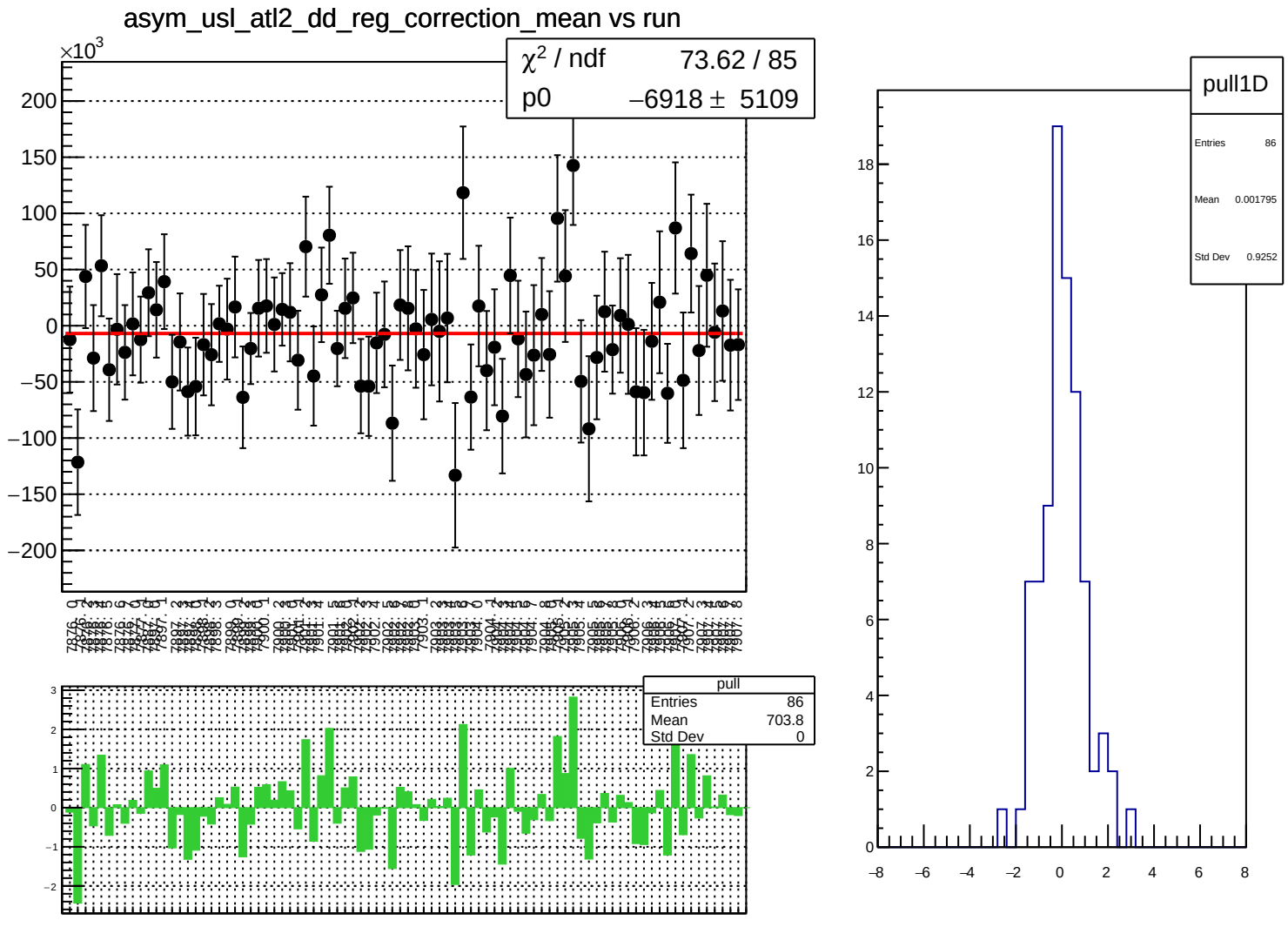

pull1D
Entries 86
Mean 0.05002
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

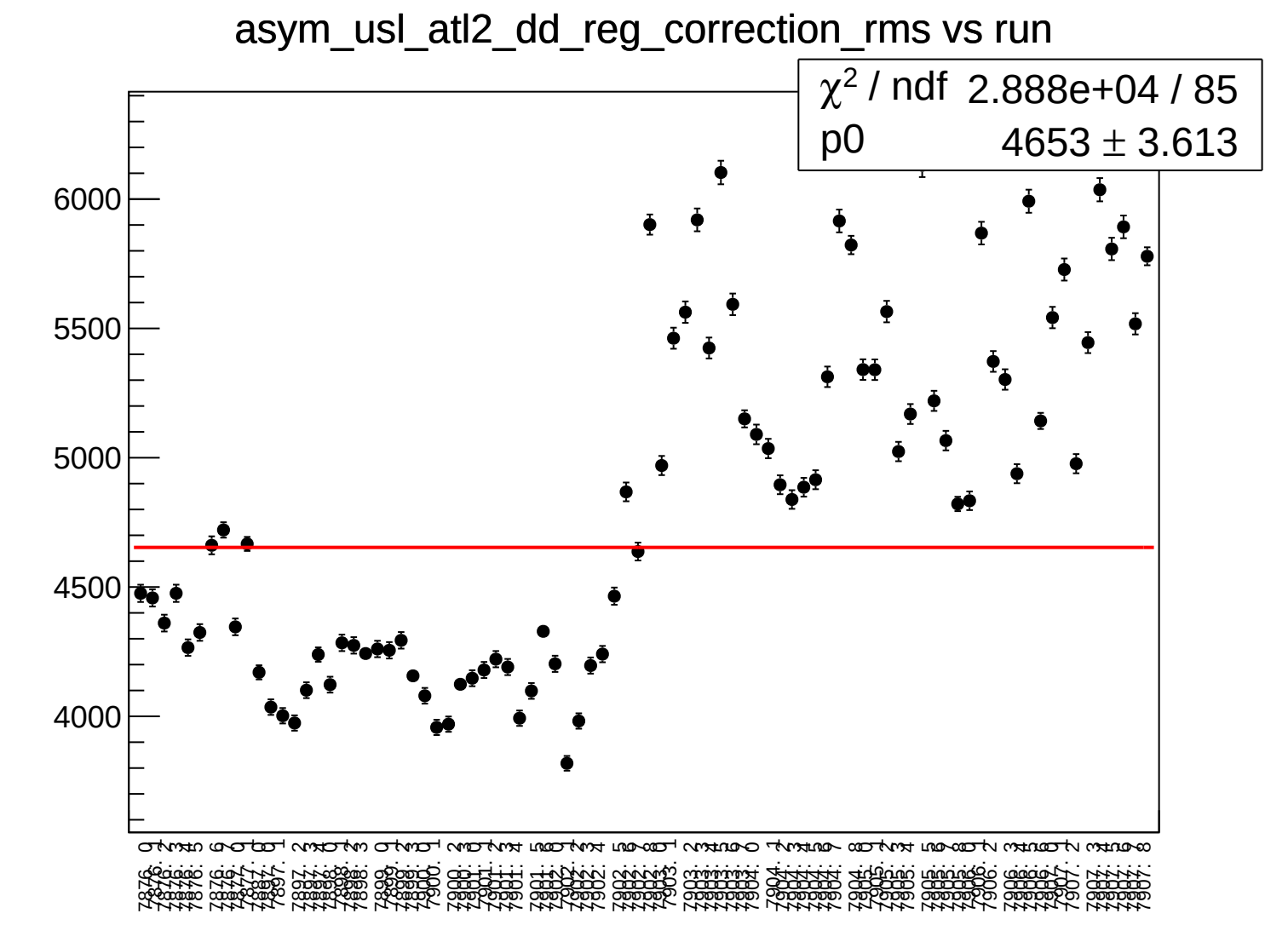

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.683e+05 / 85
p0 3.937e−10 ± 4.349e−13
4
3.5
3
2.5
2
1.5
1
0.5

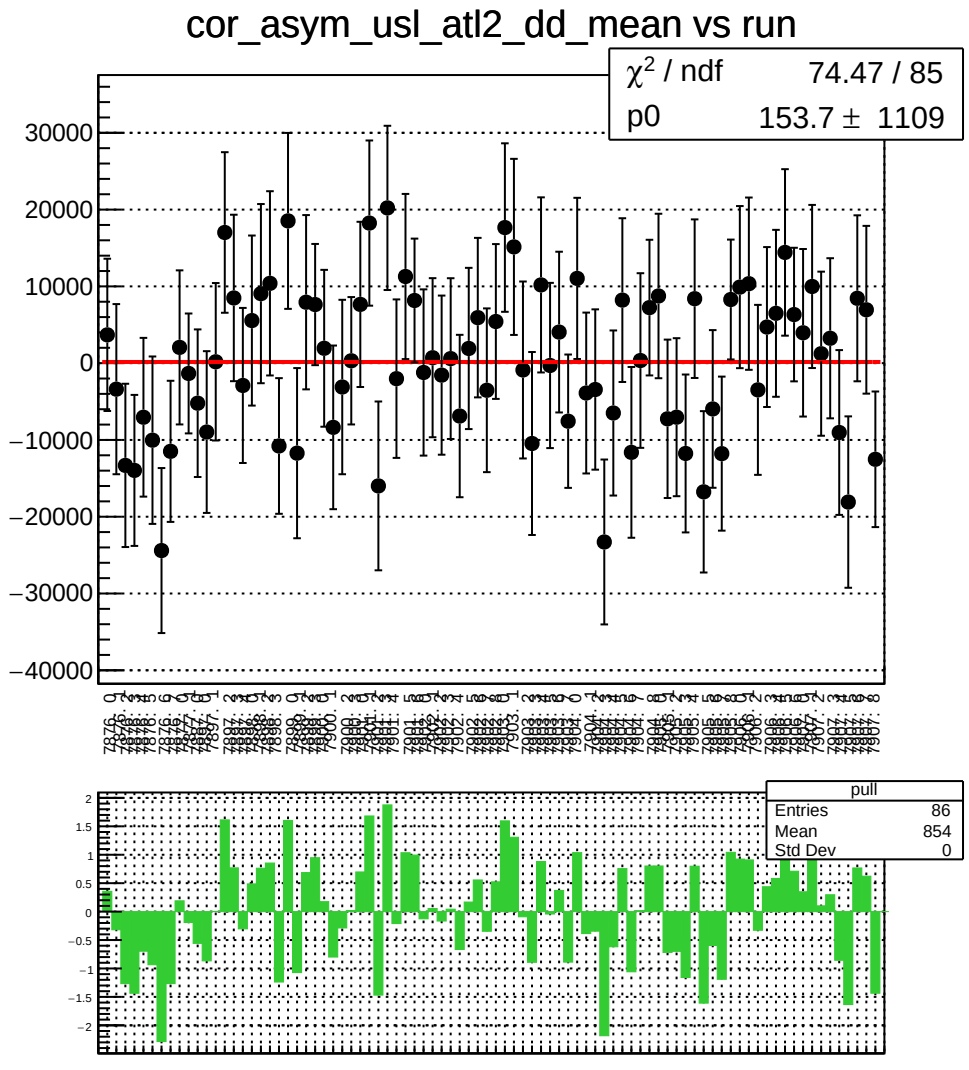

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 74.47 / 85
p0 153.8 ± 1109
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 854.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

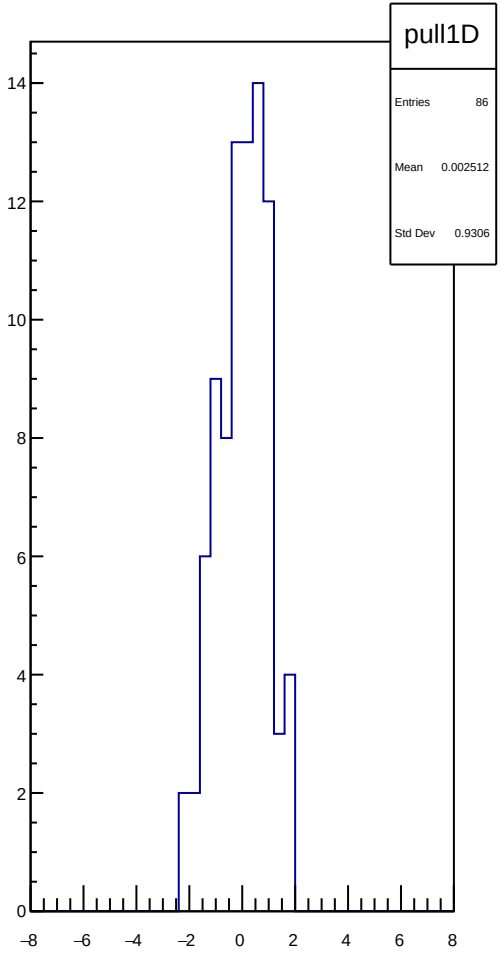

pull1D
Entries 86
Mean 0.002512
Std Dev 0.9305
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

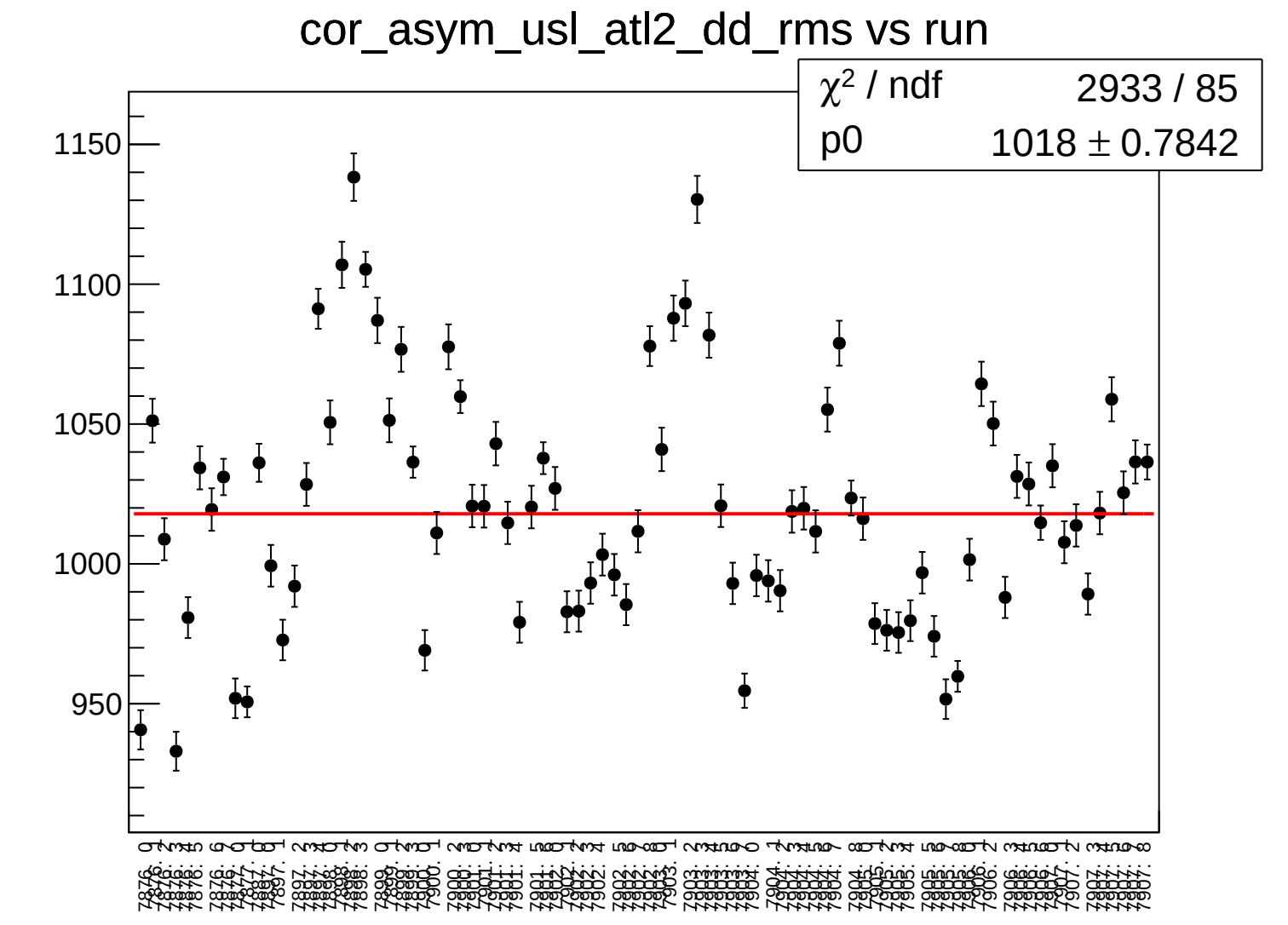

reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 2933 / 85
p0 1018 ± 0.7842
1150
1100
1050
1000
950

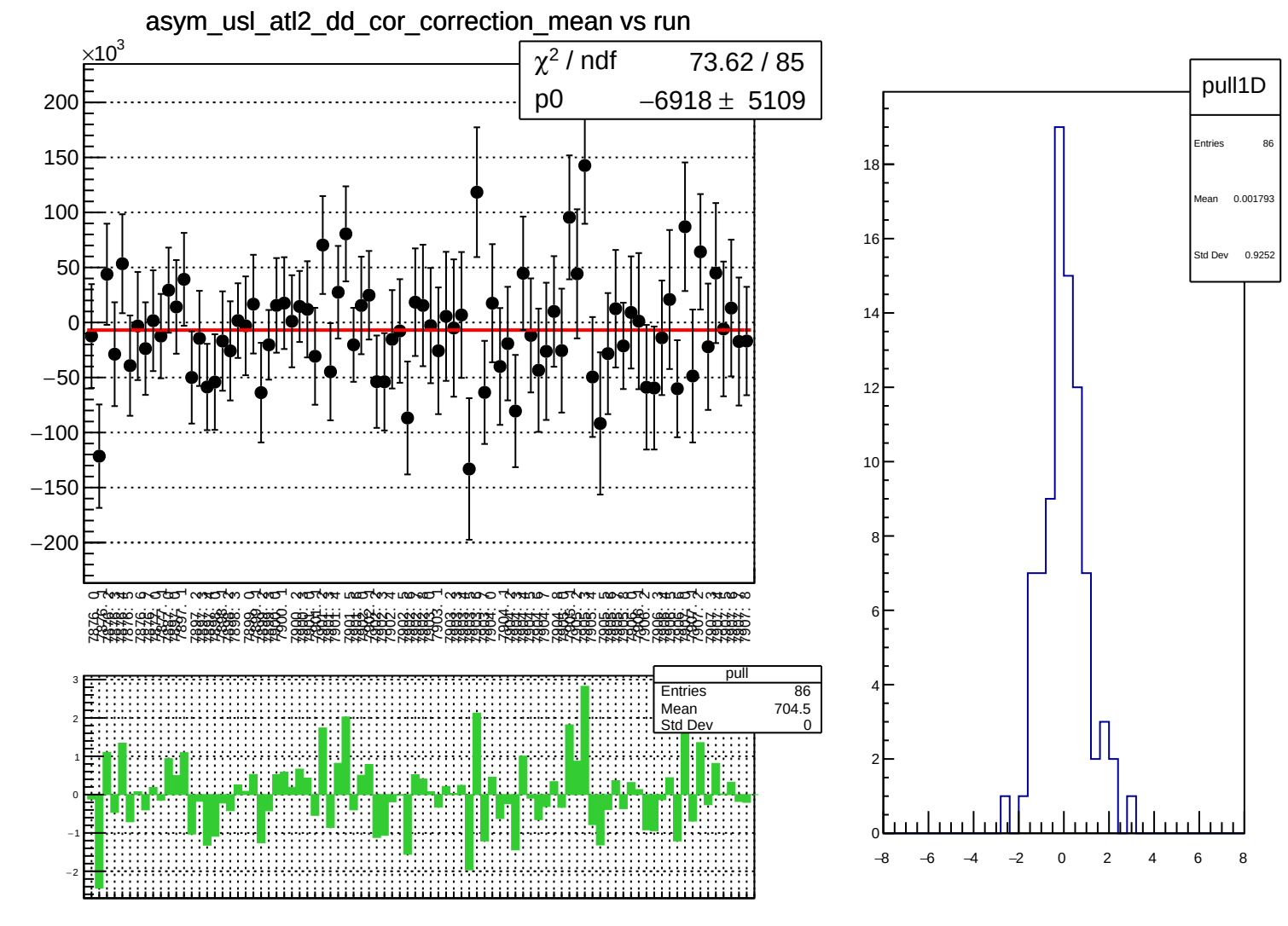

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 73.62 / 85
p0 −6918 ± 5109
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 703.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.001795
Std Dev 0.9252
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

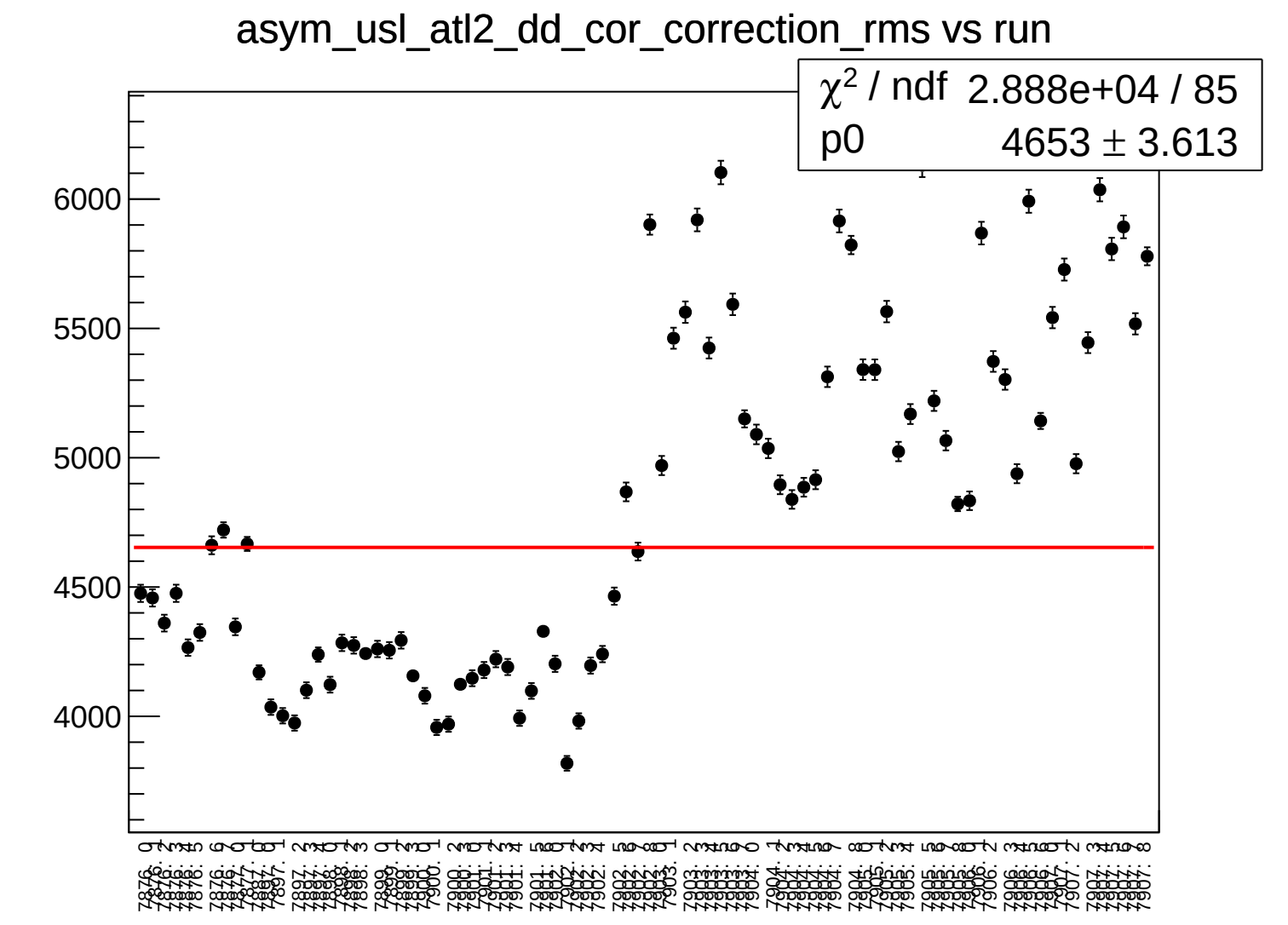

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 2.888e+04 / 85
p0 4653 ± 3.613
6000
5500
5000
4500
4000

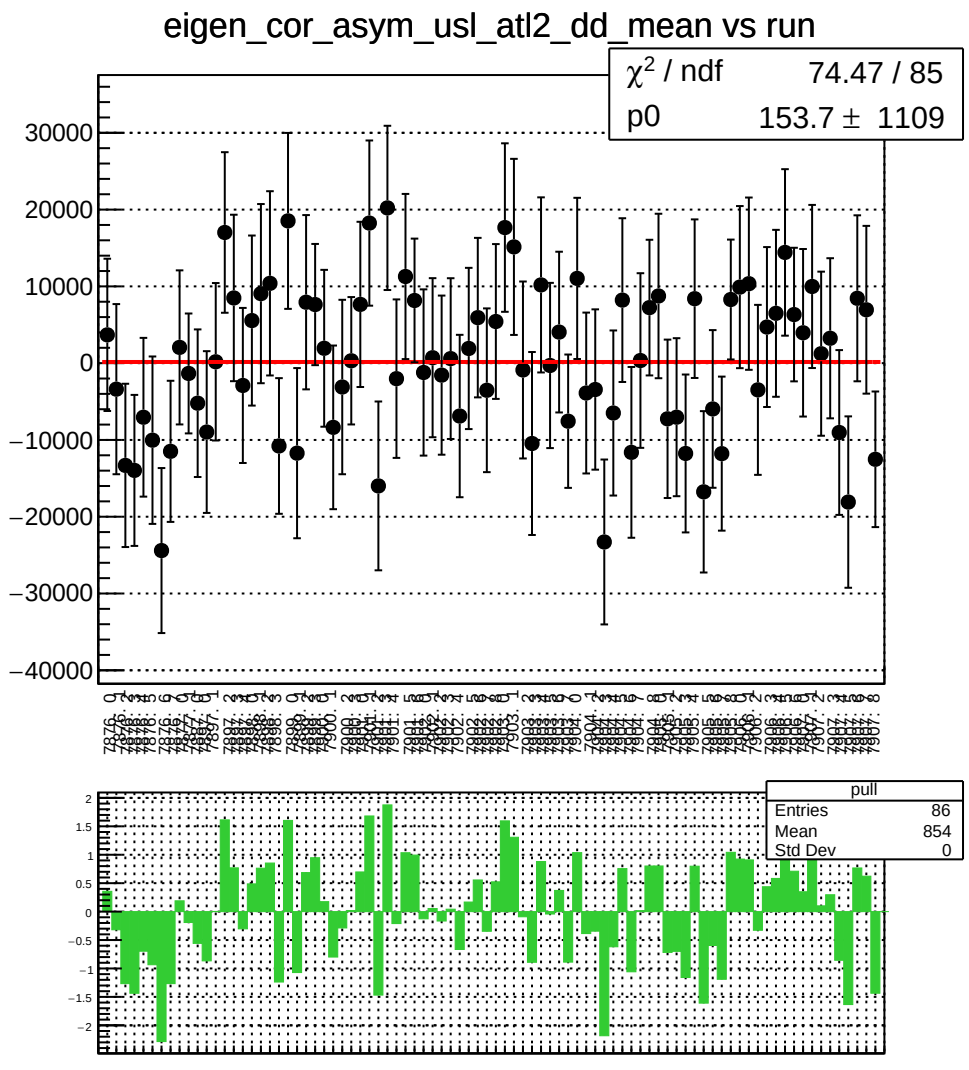

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 74.47 / 85
p0 153.7 ± 1109
pull
Entries 86
Mean 854
Std Dev 0

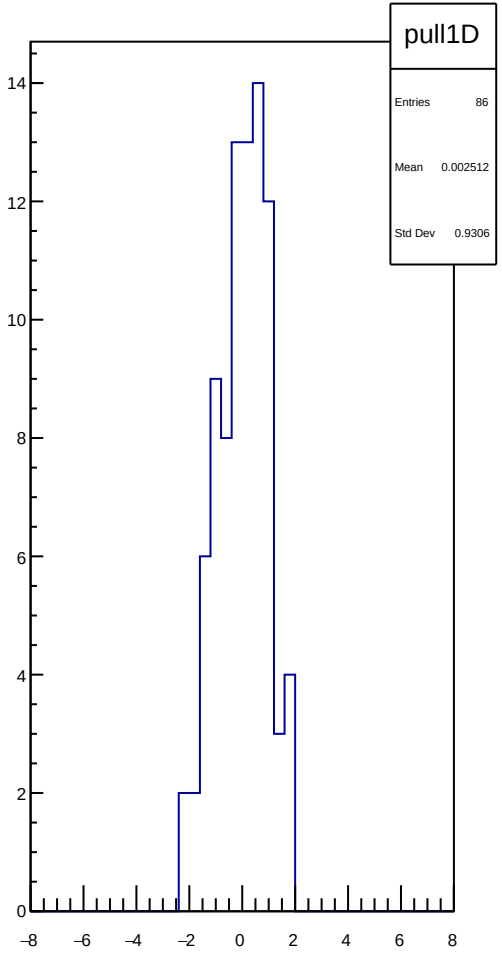

pull1D
Entries 86
Mean 0.002512
Std Dev 0.9306

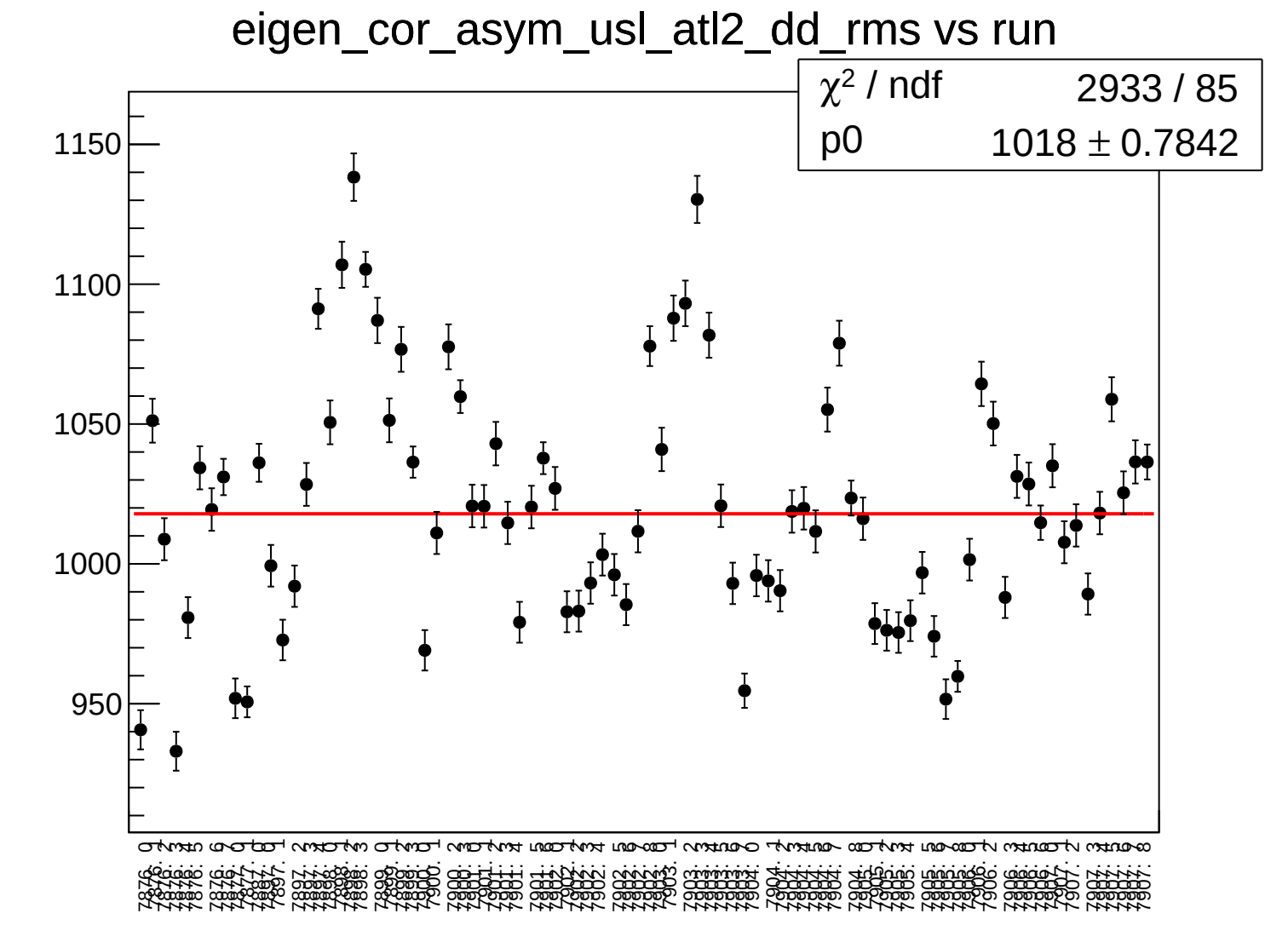

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 2933 / 85
p0 1018 ± 0.7842
1150
1100
1050
1000
950

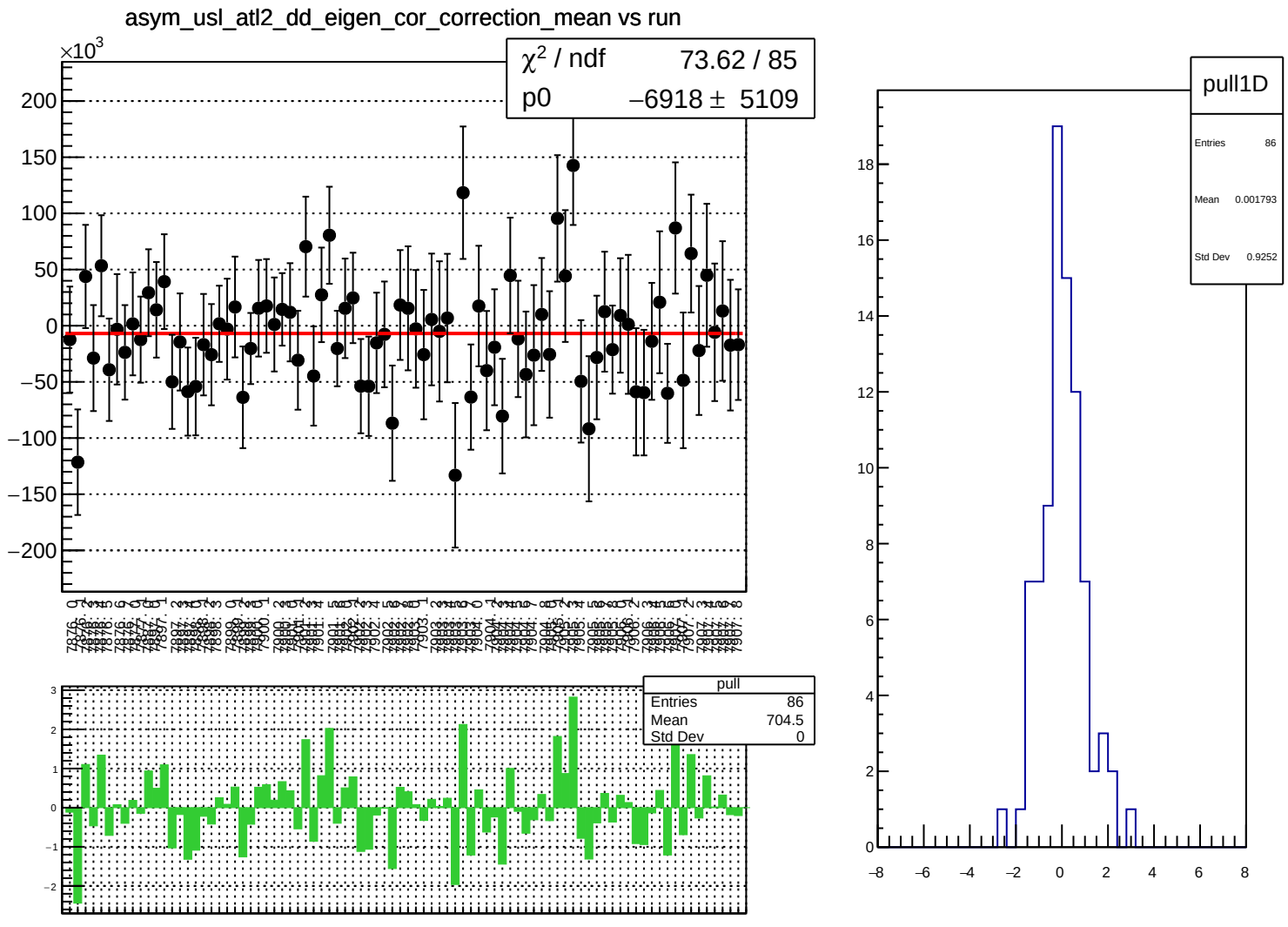

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 73.62 / 85
p0 −6918 ± 5109
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 704.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.001793
Std Dev 0.9252
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

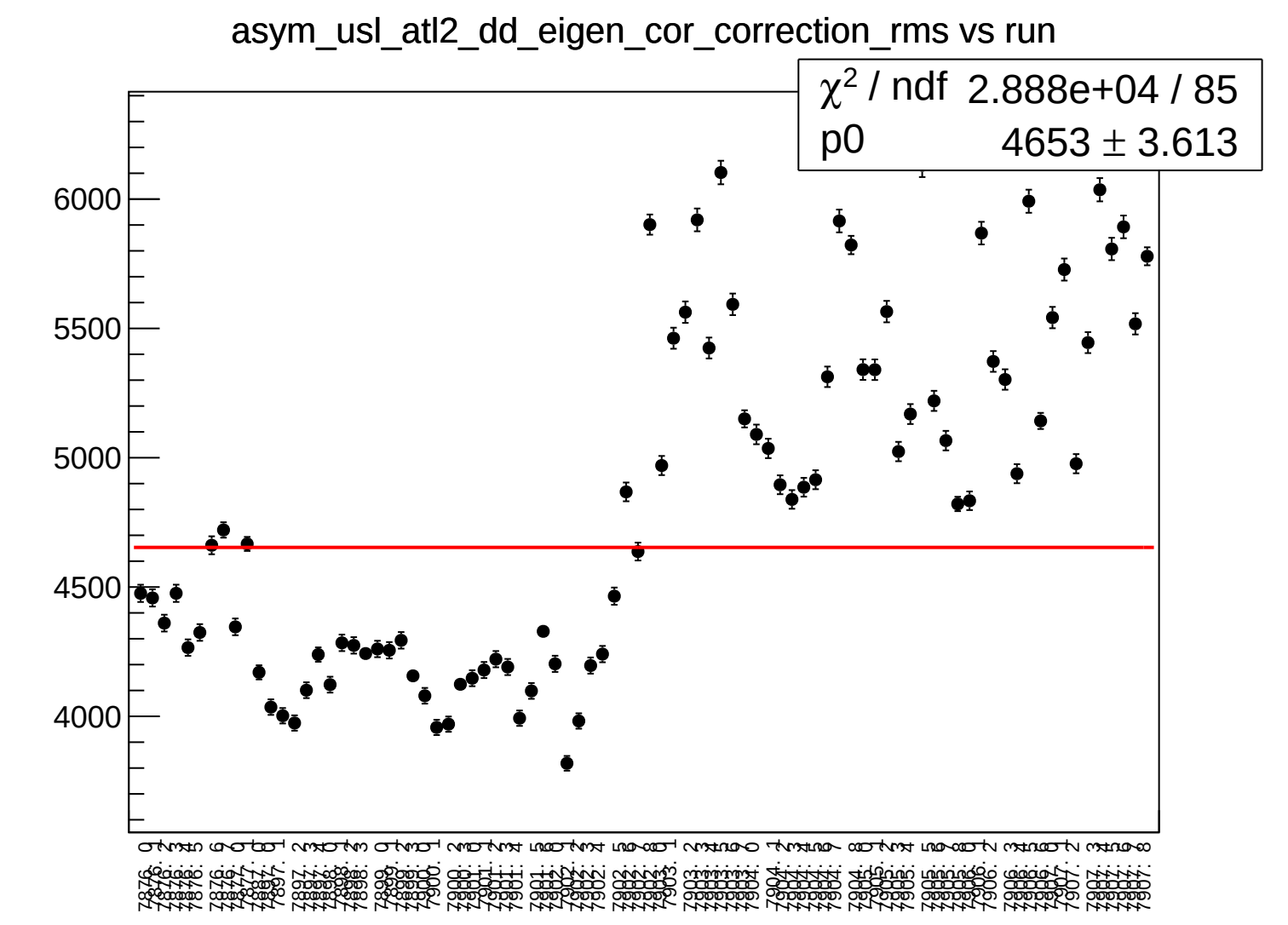

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2.888e+04 / 85
p0 4653 ± 3.613
6000
5500
5000
4500
4000

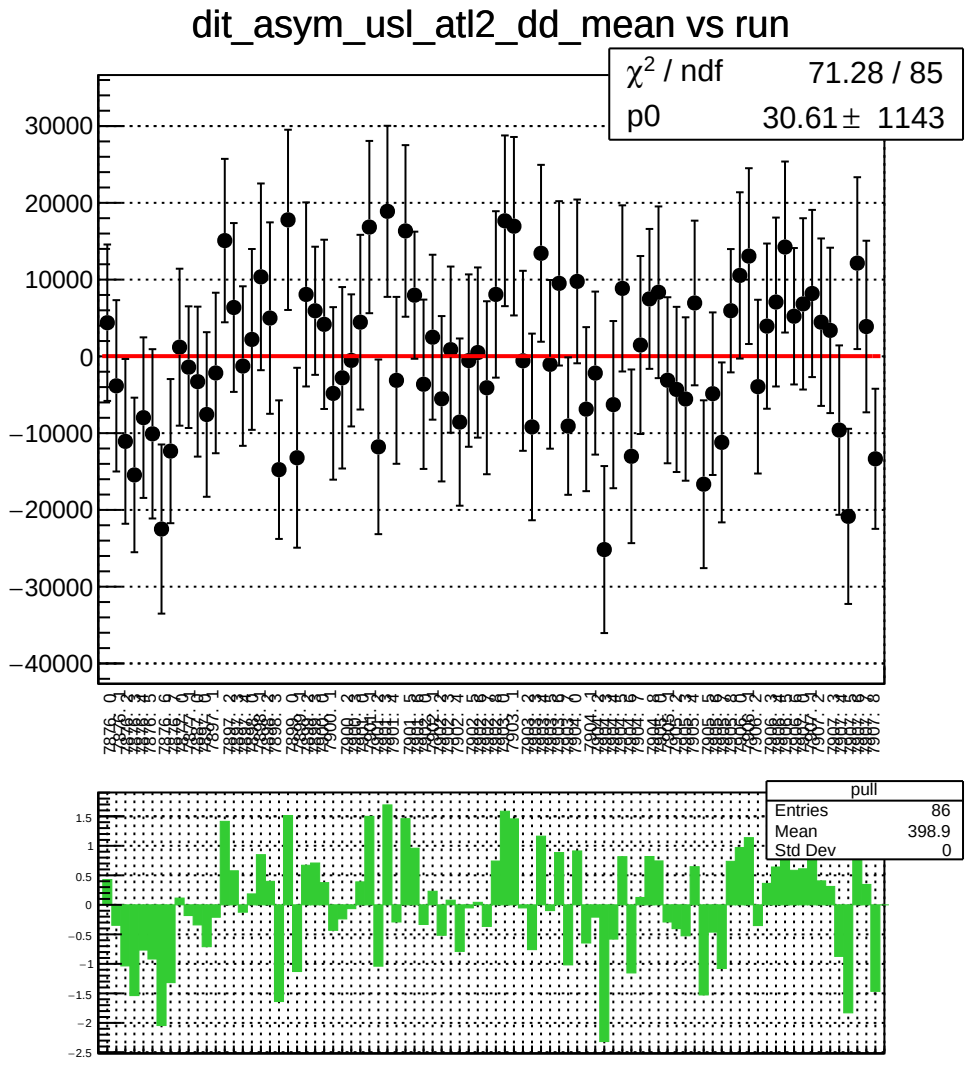

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 74.47 / 85
p0 153.7 ± 1109
pull
Entries 86
Mean 854
Std Dev 0

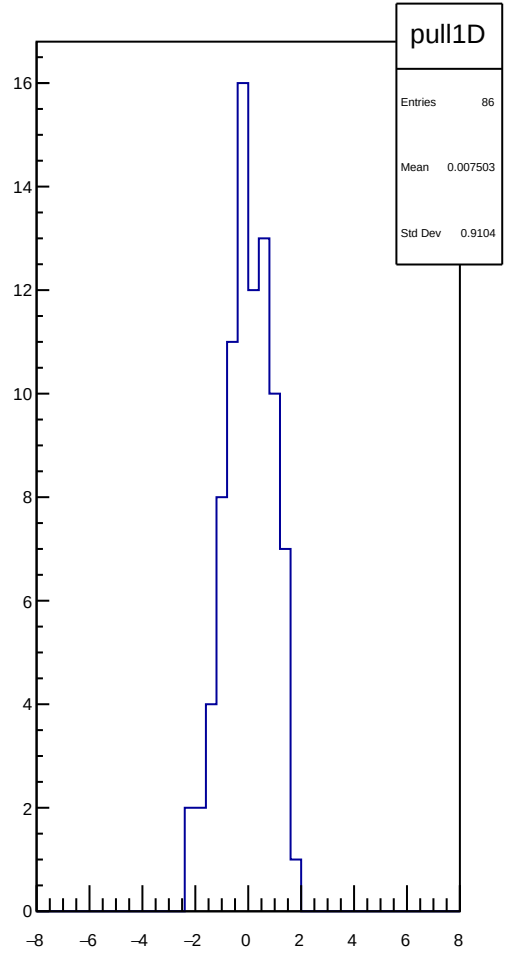

pull1D
Entries 86
Mean 0.002512
Std Dev 0.9306

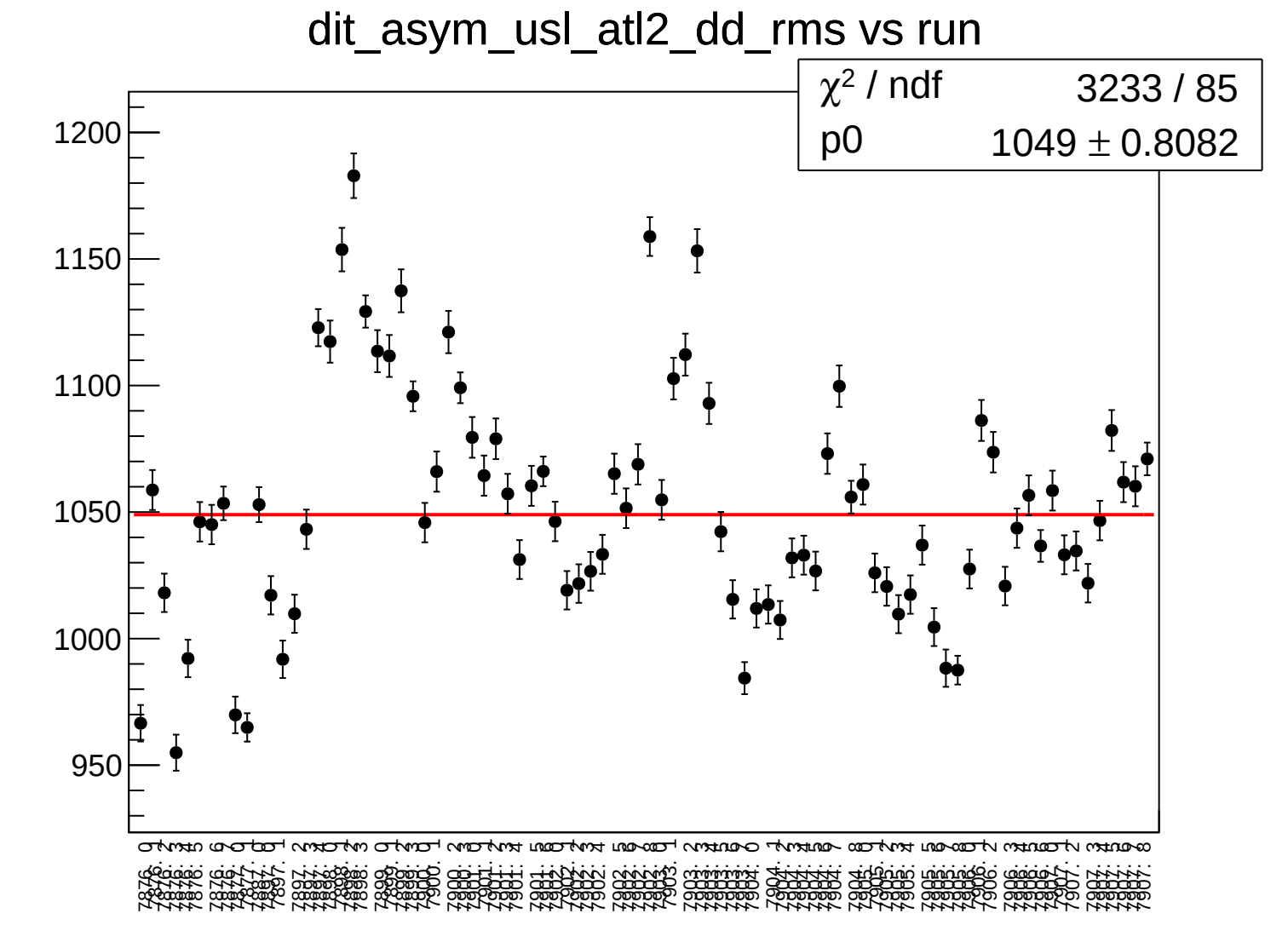

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 2933 / 85
p0 1018 ± 0.7842
1150
1100
1050
1000
950

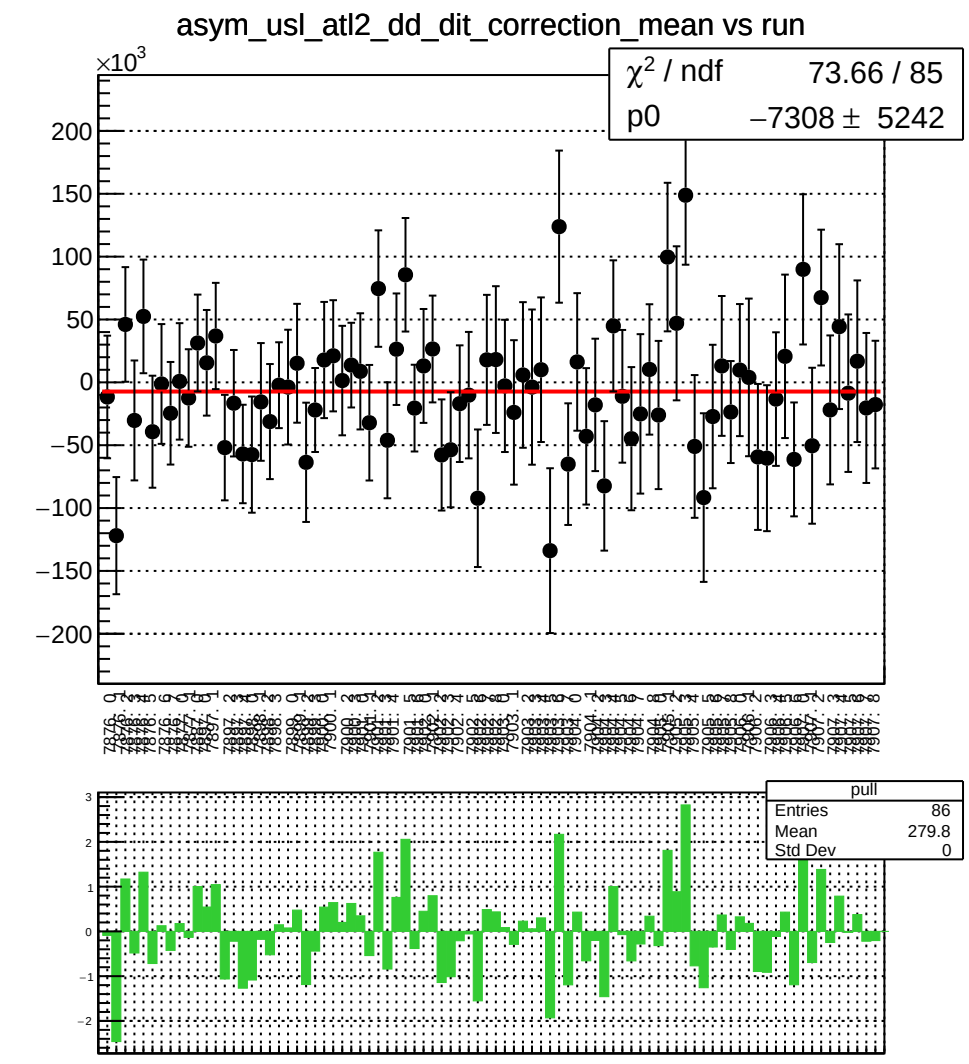

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 73.62 / 85
p0 −6918 ± 5109
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 704.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.001793
Std Dev 0.9252
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

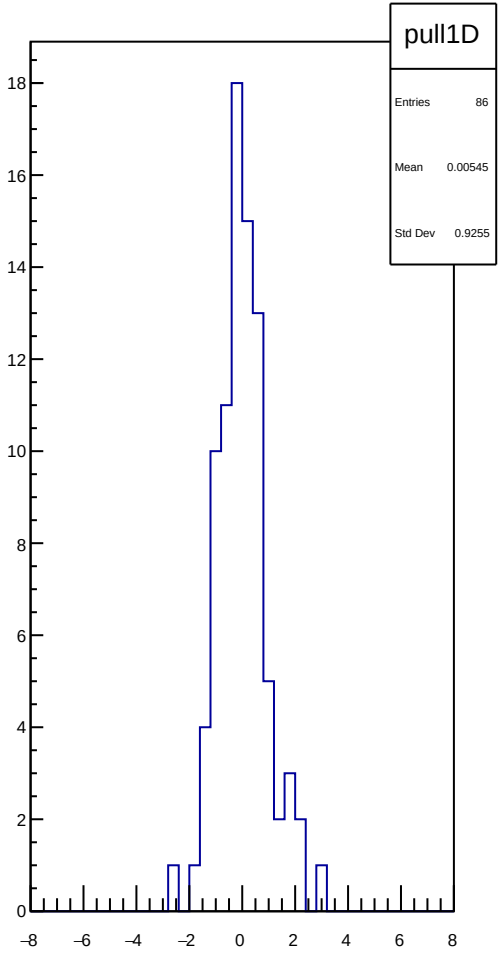

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.888e+04 / 85
p0 4653 ± 3.613
6000
5500
5000
4500
4000

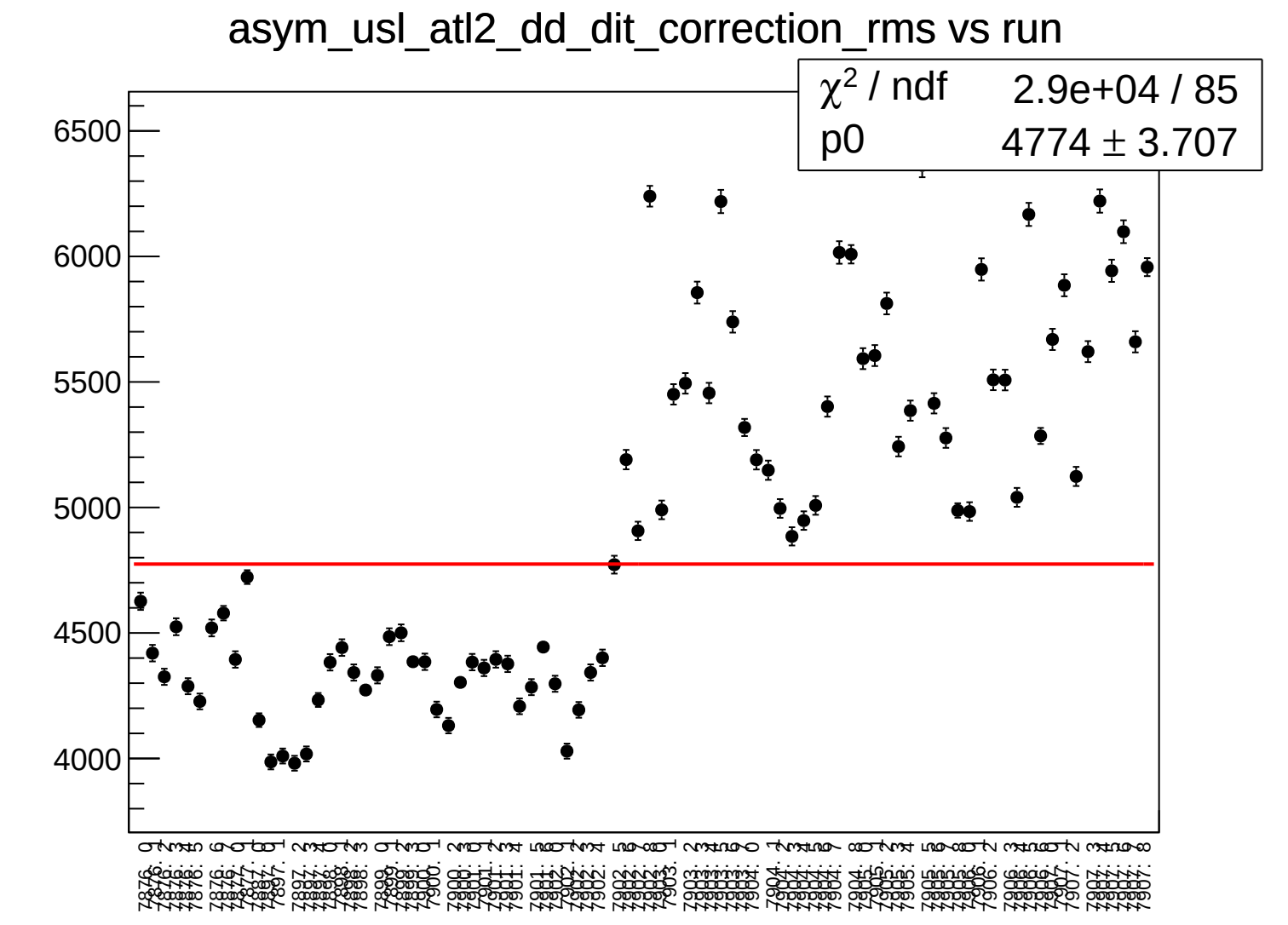

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.28 / 85
p0 30.61 ± 1143
pull
Entries 86
Mean 398.9
Std Dev 0

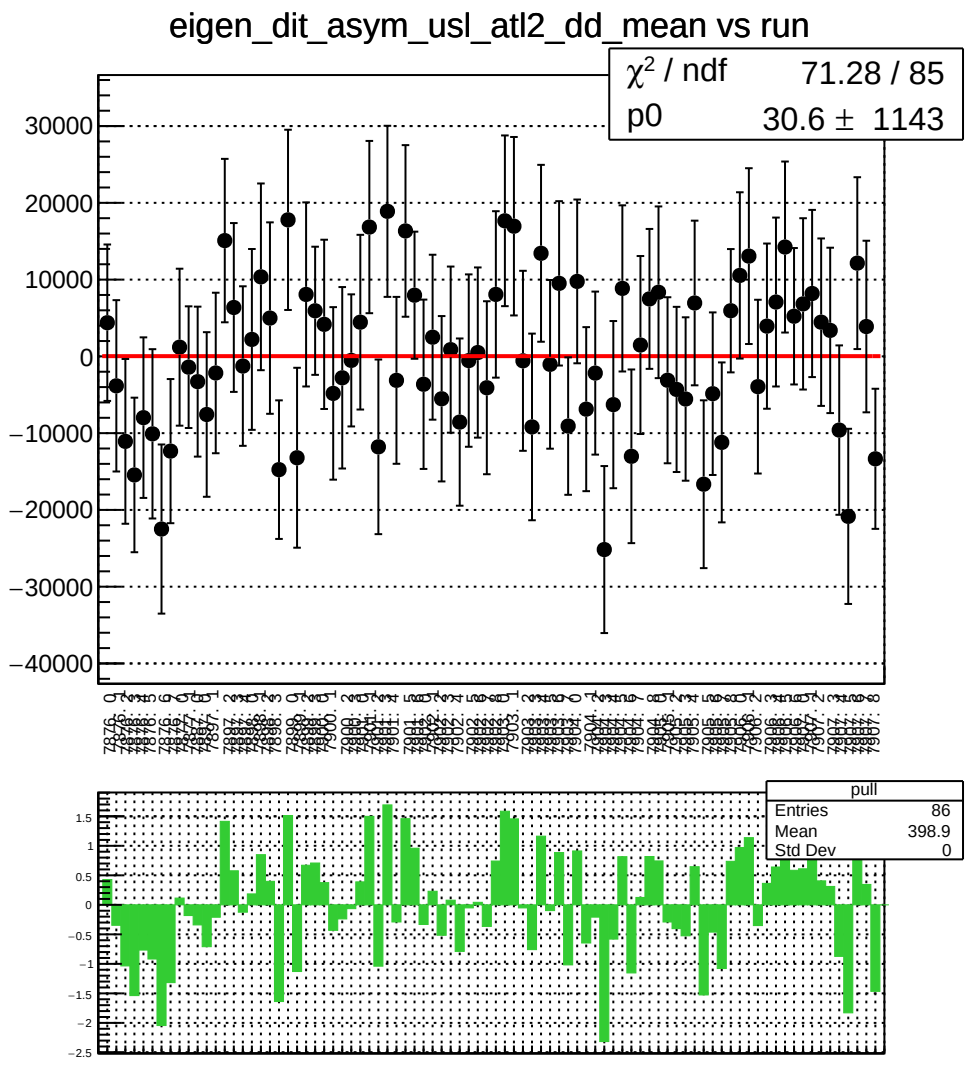

pull1D
Entries 86
Mean 0.007503
Std Dev 0.9104

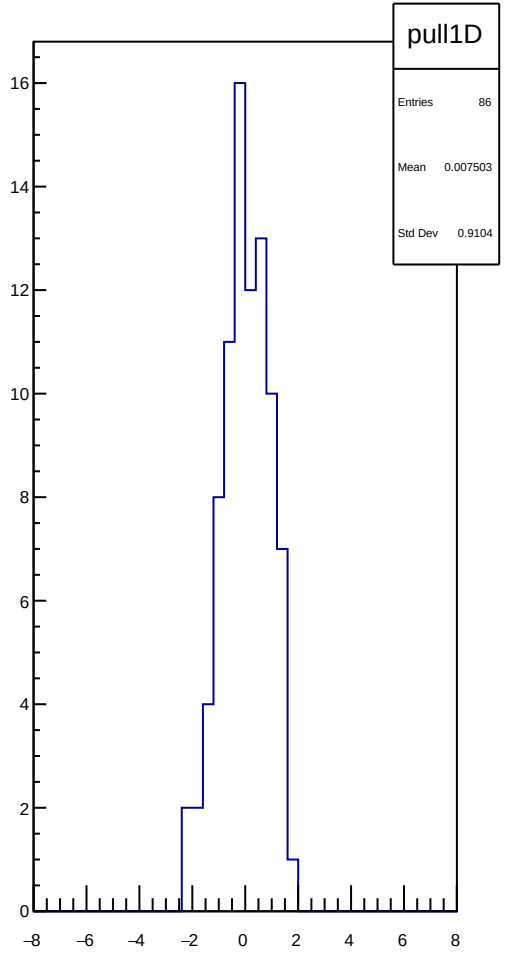

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 3233 / 85
p0 1049 ± 0.8082
1200
1150
1100
1050
1000
950

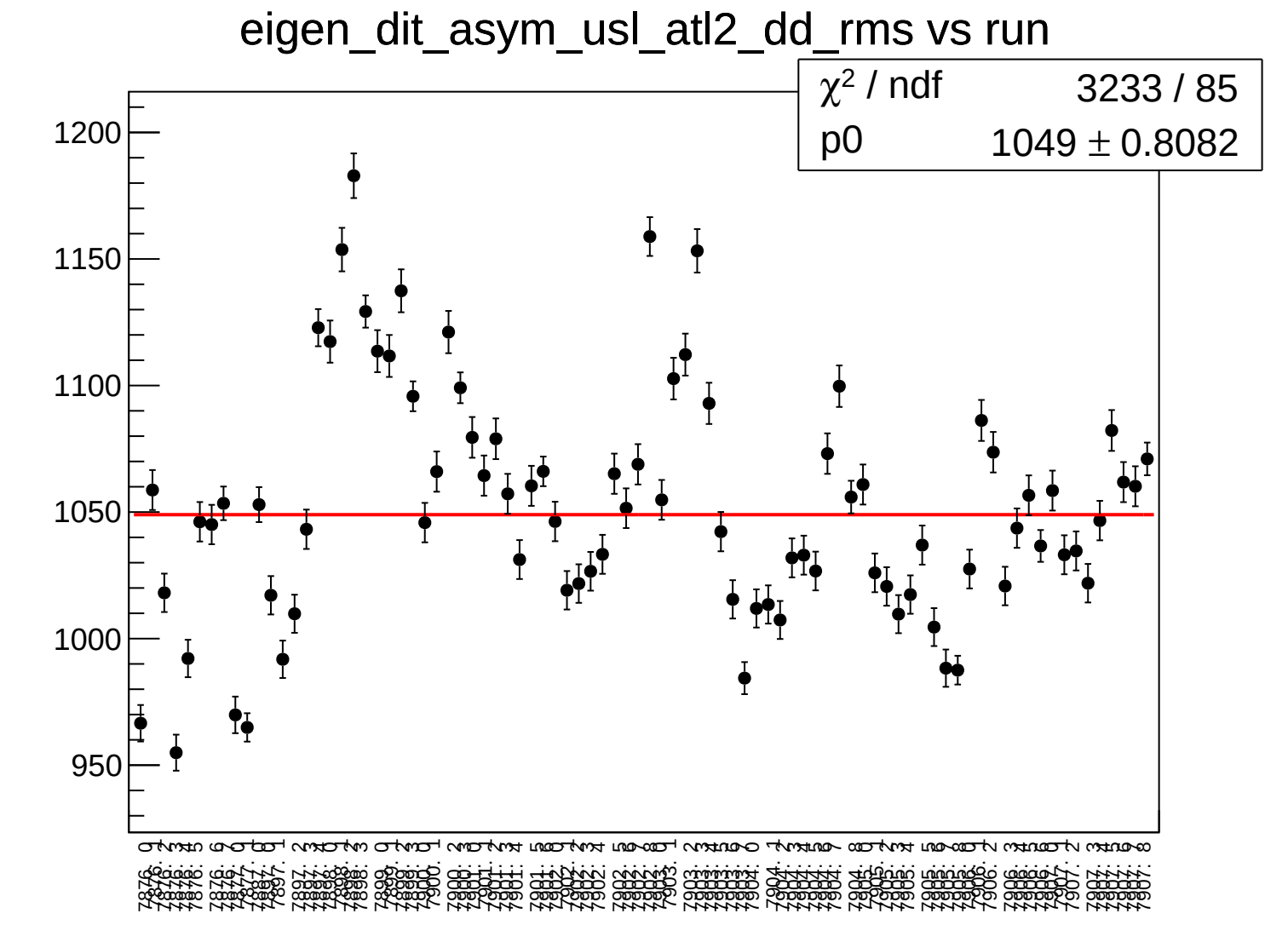

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 73.66 / 85
p0 −7308 ± 5242
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 279.8
Std Dev 0
3
2
1
0
−1
−2

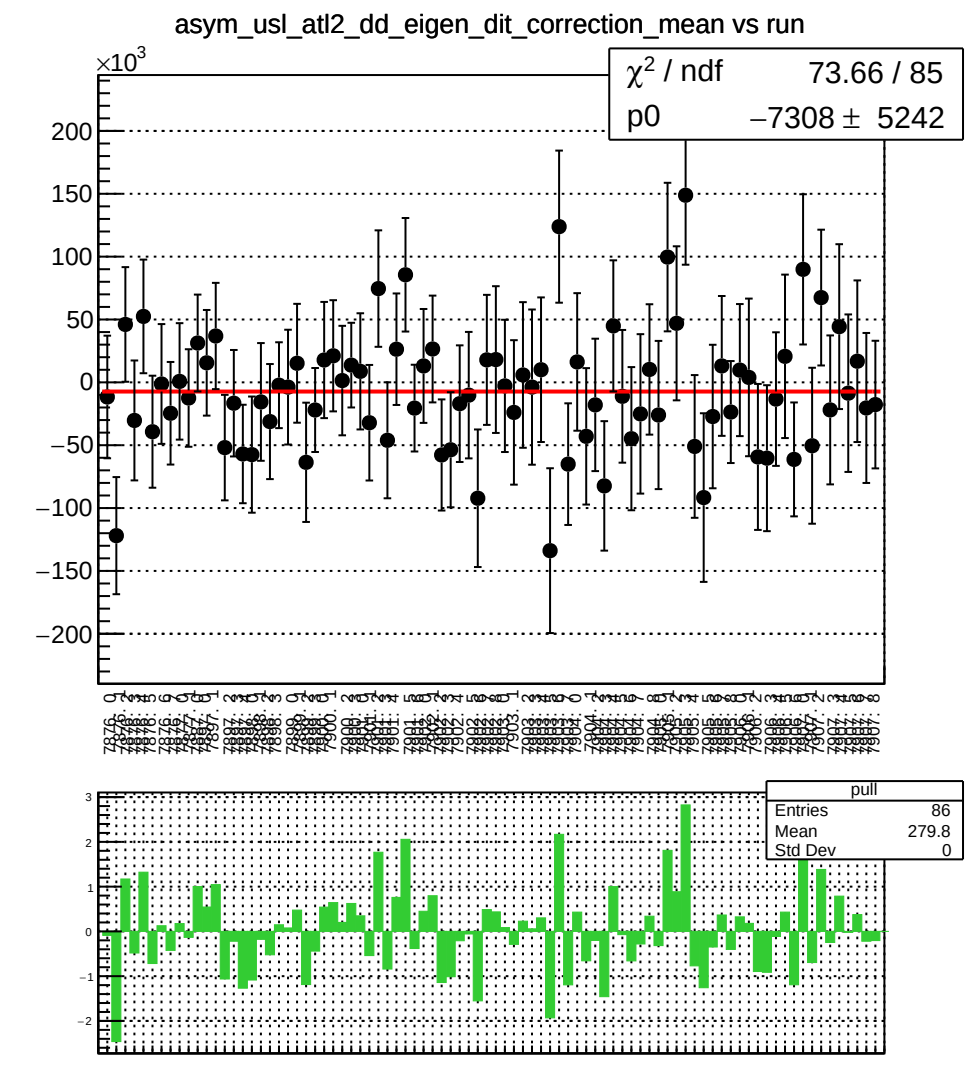

pull1D
Entries 86
Mean 0.00545
Std Dev 0.9255
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

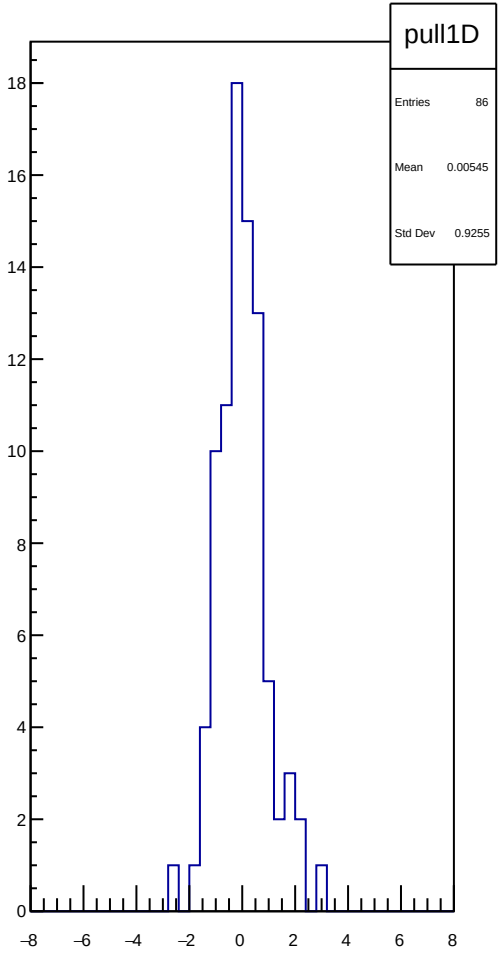

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 2.9e+04 / 85
p0 4774 ± 3.707
6500
6000
5500
5000
4500
4000

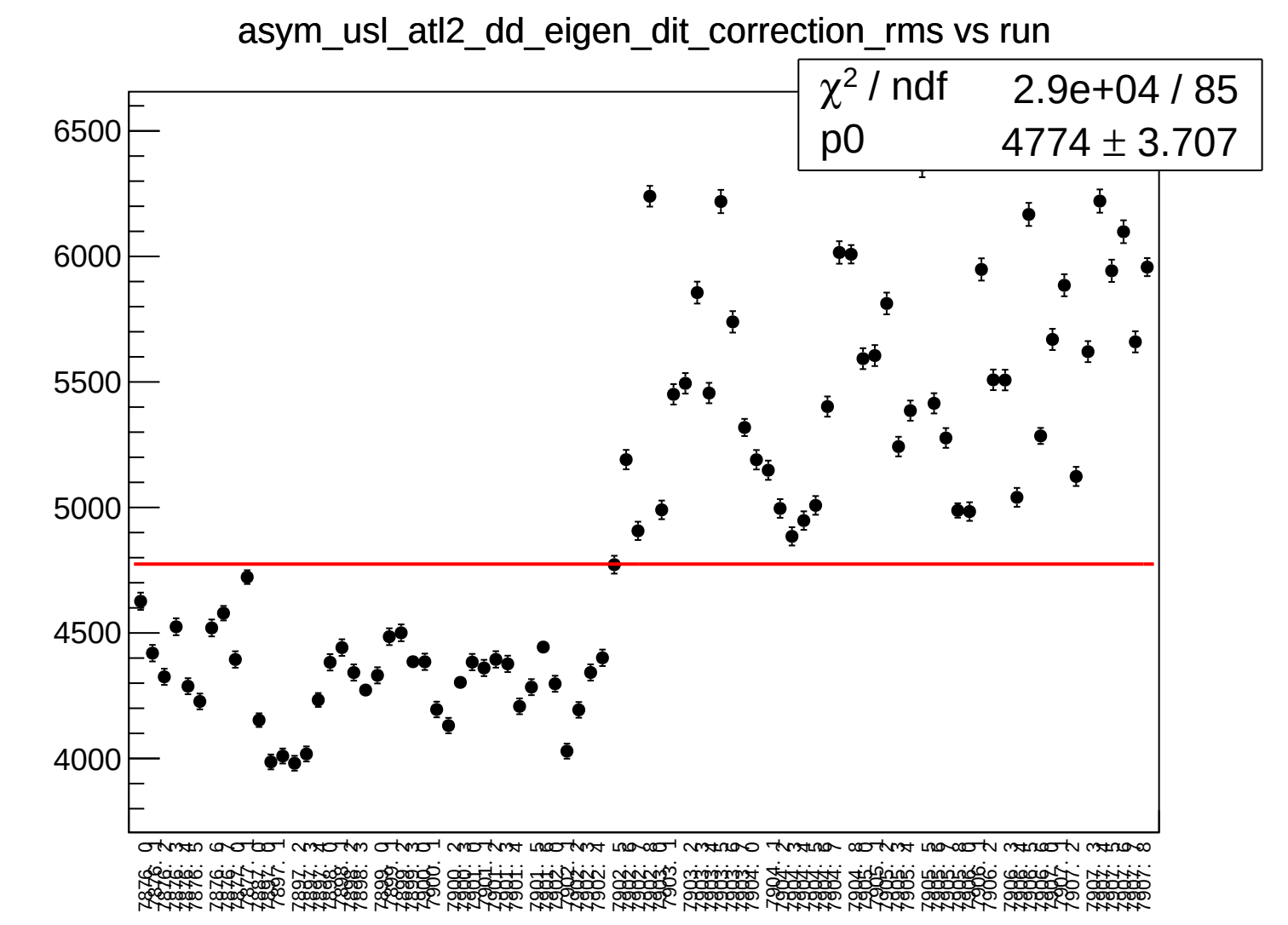

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.28 / 85
p0 30.6 ± 1143
pull
Entries 86
Mean 398.9
Std Dev 0

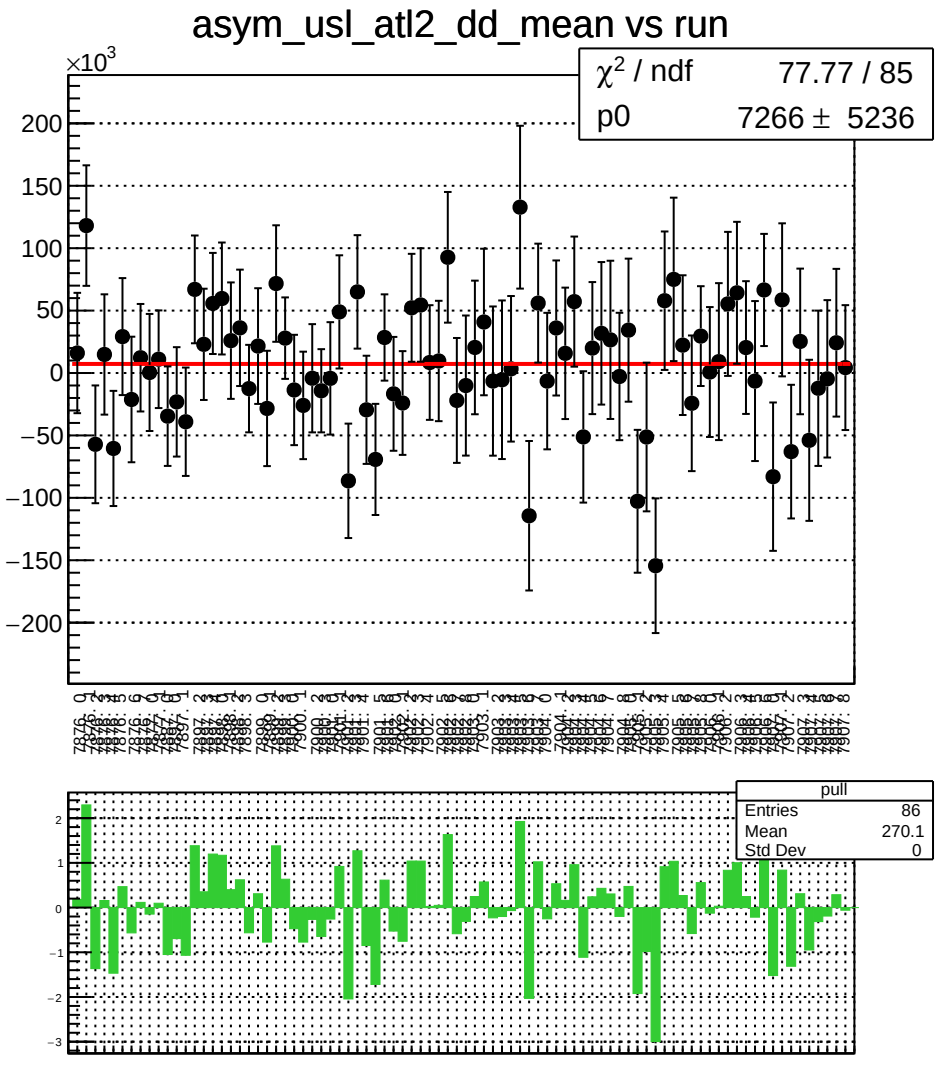

pull1D
Entries 86
Mean 0.007503
Std Dev 0.9104

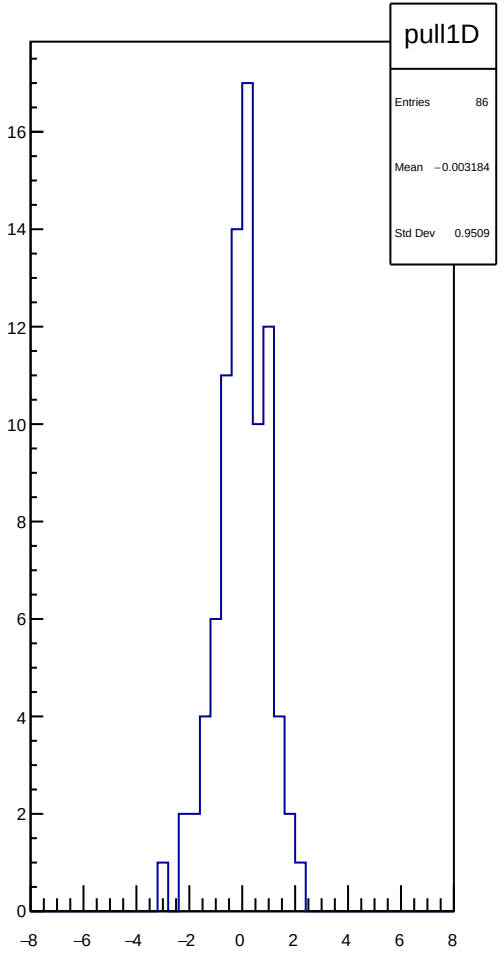

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 3233 / 85
p0 1049 ± 0.8082
1200
1150
1100
1050
1000
950

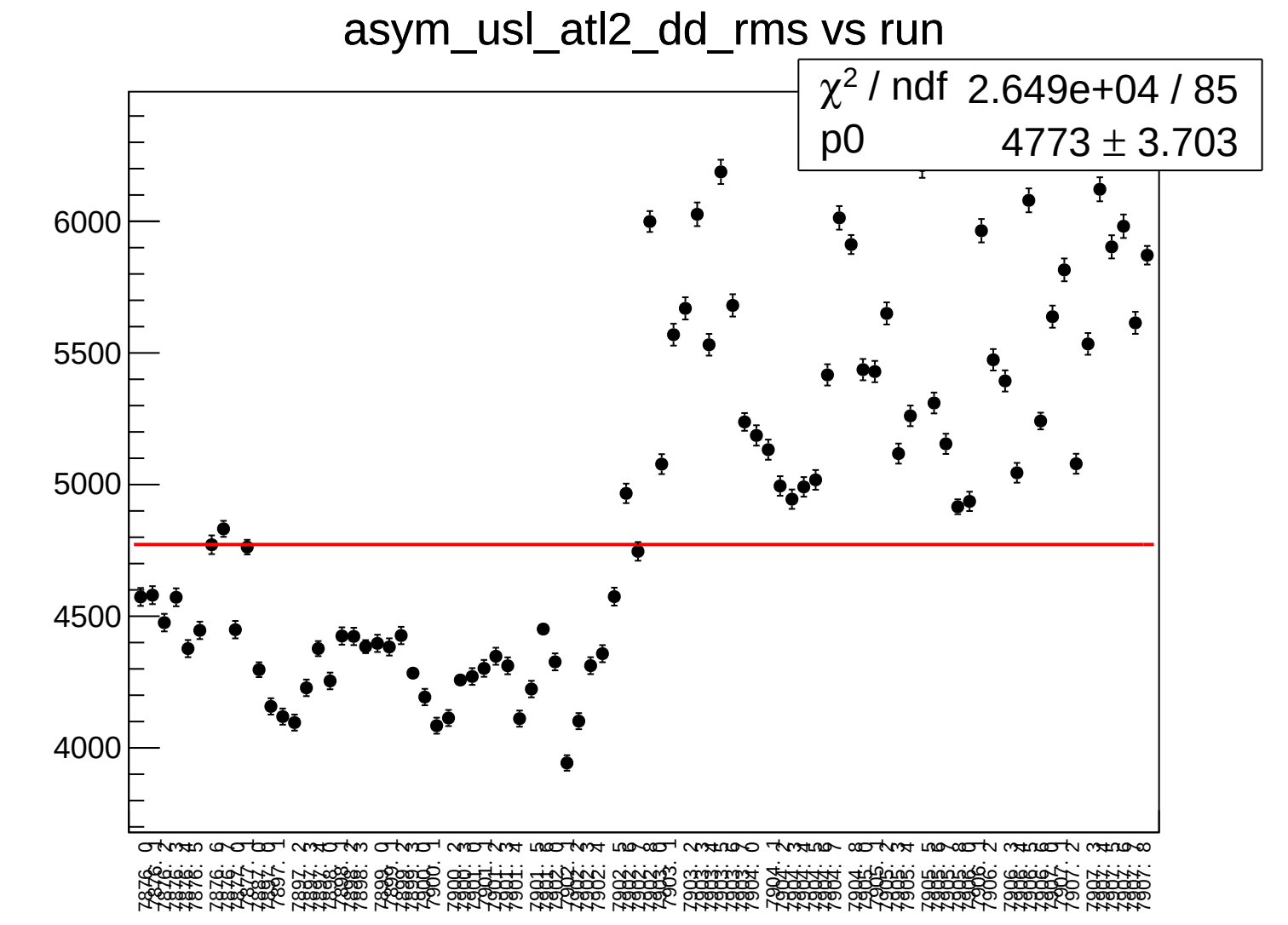

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.66 / 85
p0 −7308 ± 5242
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 279.8
Std Dev 0
3
2
1
0
−1
−2

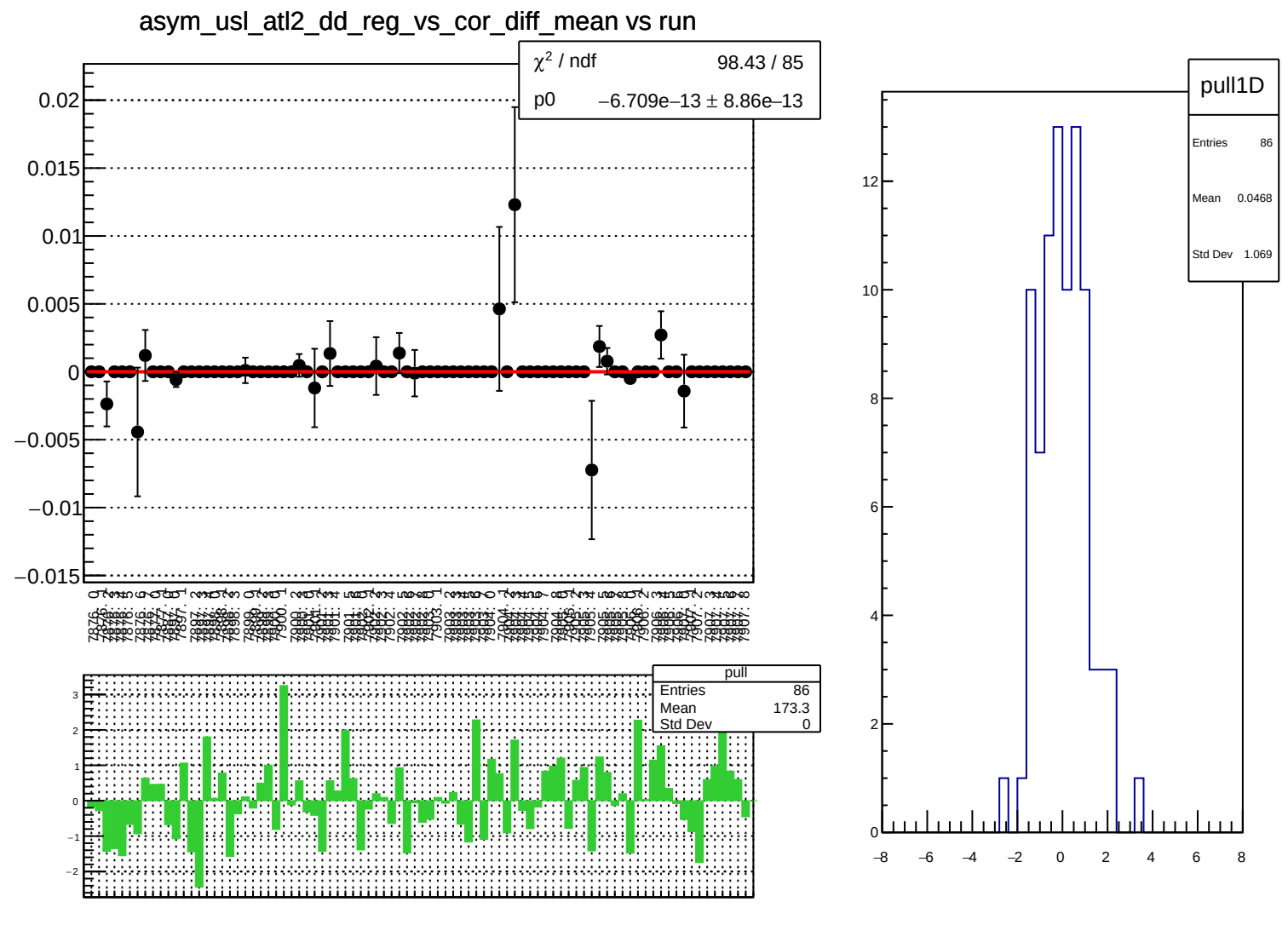

pull1D
Entries 86
Mean 0.00545
Std Dev 0.9255
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

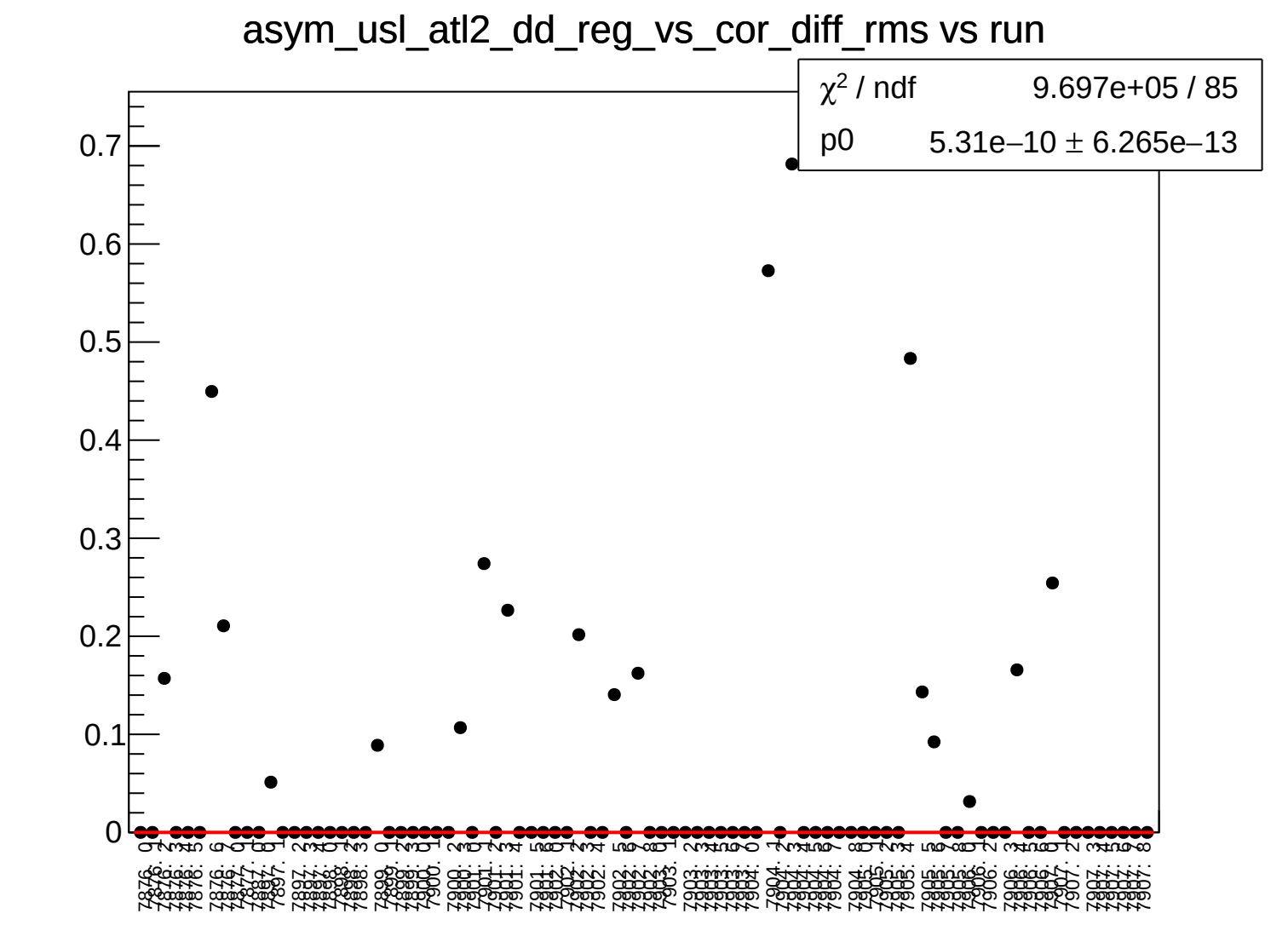

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.9e+04 / 85
p0 4774 ± 3.707
6500
6000
5500
5000
4500
4000

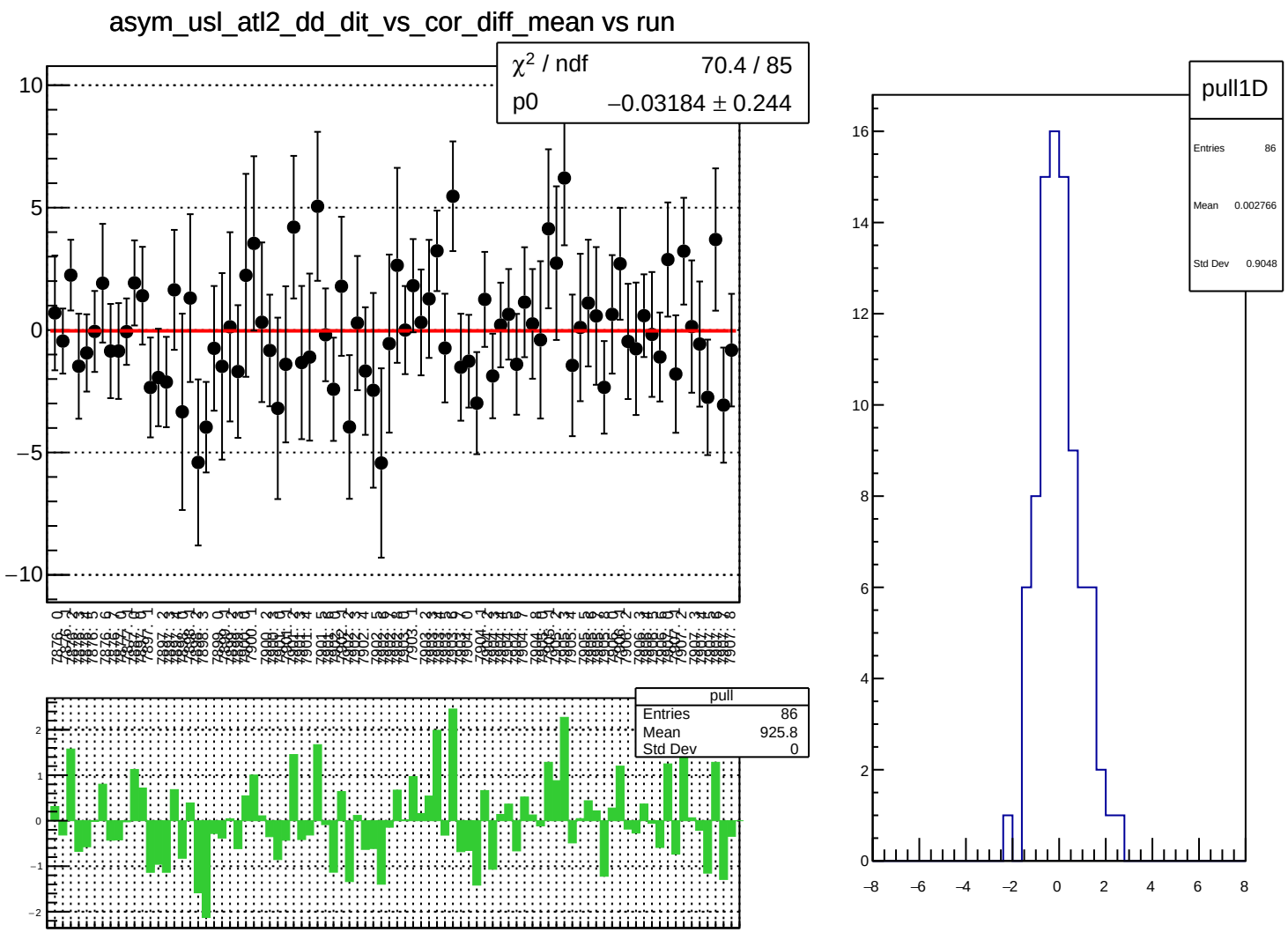

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 77.77 / 85
p0 7266 ± 5236
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 270.1
Std Dev 0
2
1
0
−1
−2
−3

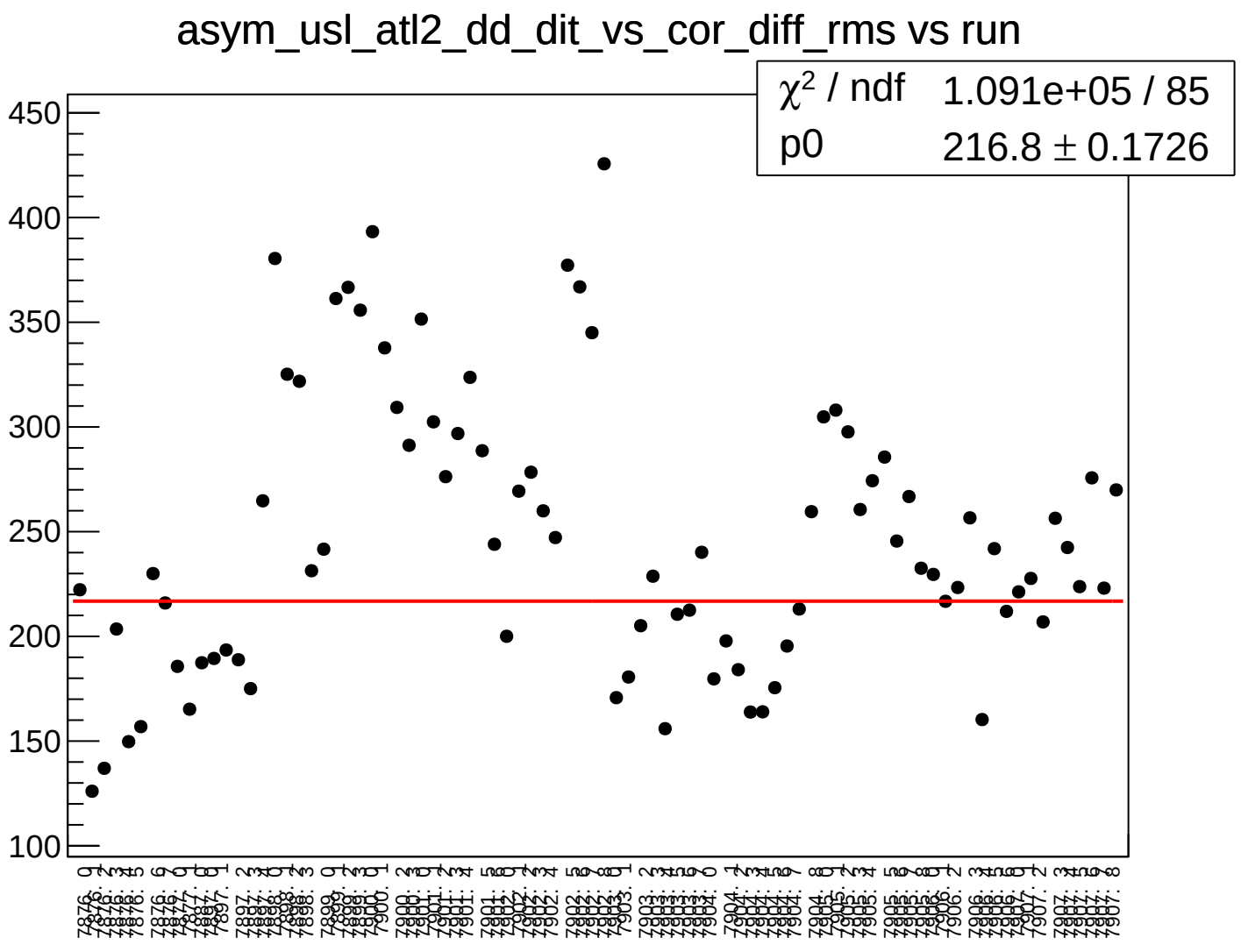

pull1D
Entries 86
Mean −0.003184
Std Dev 0.9509
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

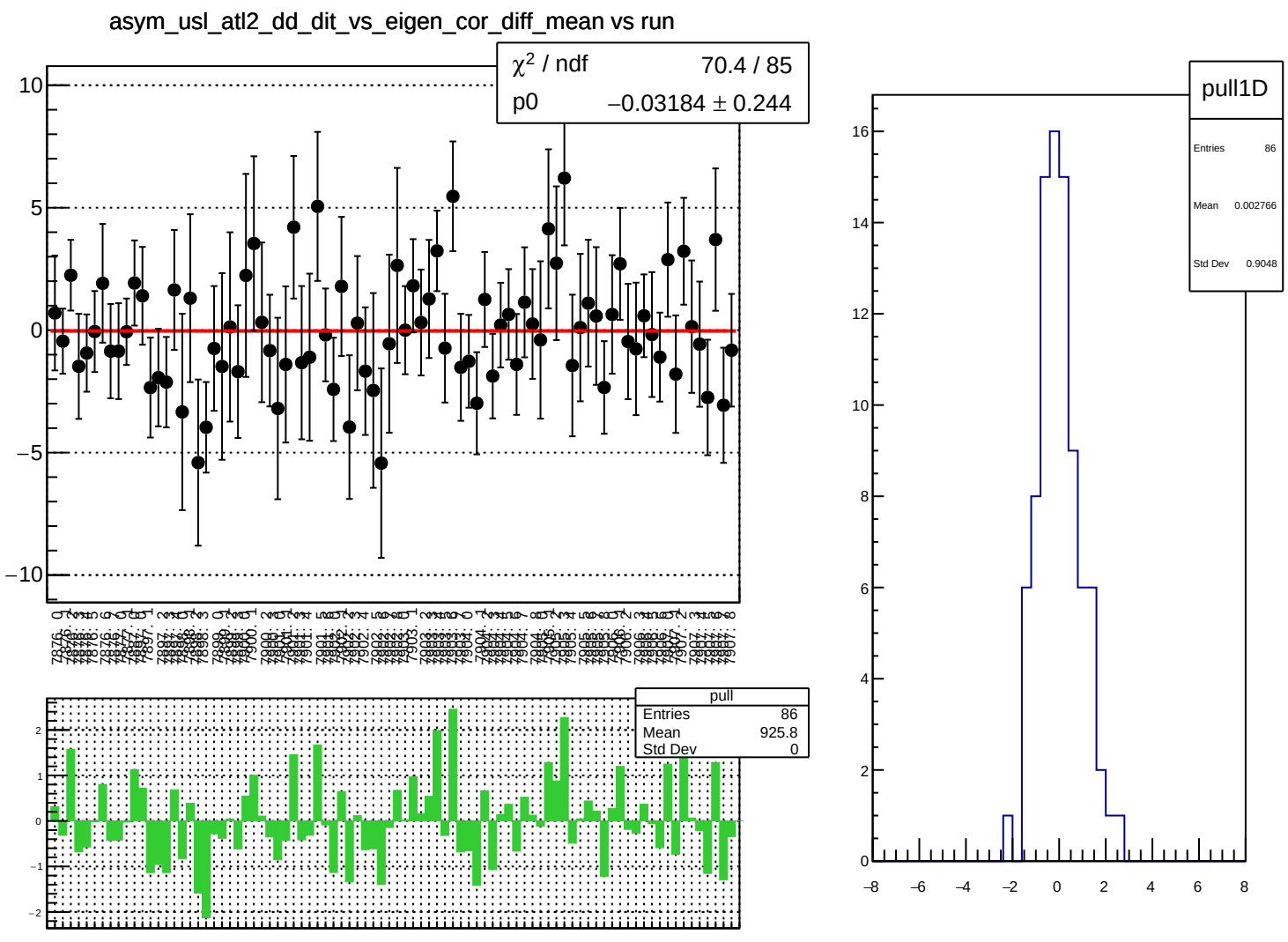

asym_usl_atl2_dd_rms vs run
χ² / ndf 2.649e+04 / 85
p0 4773 ± 3.703
6000
5500
5000
4500
4000

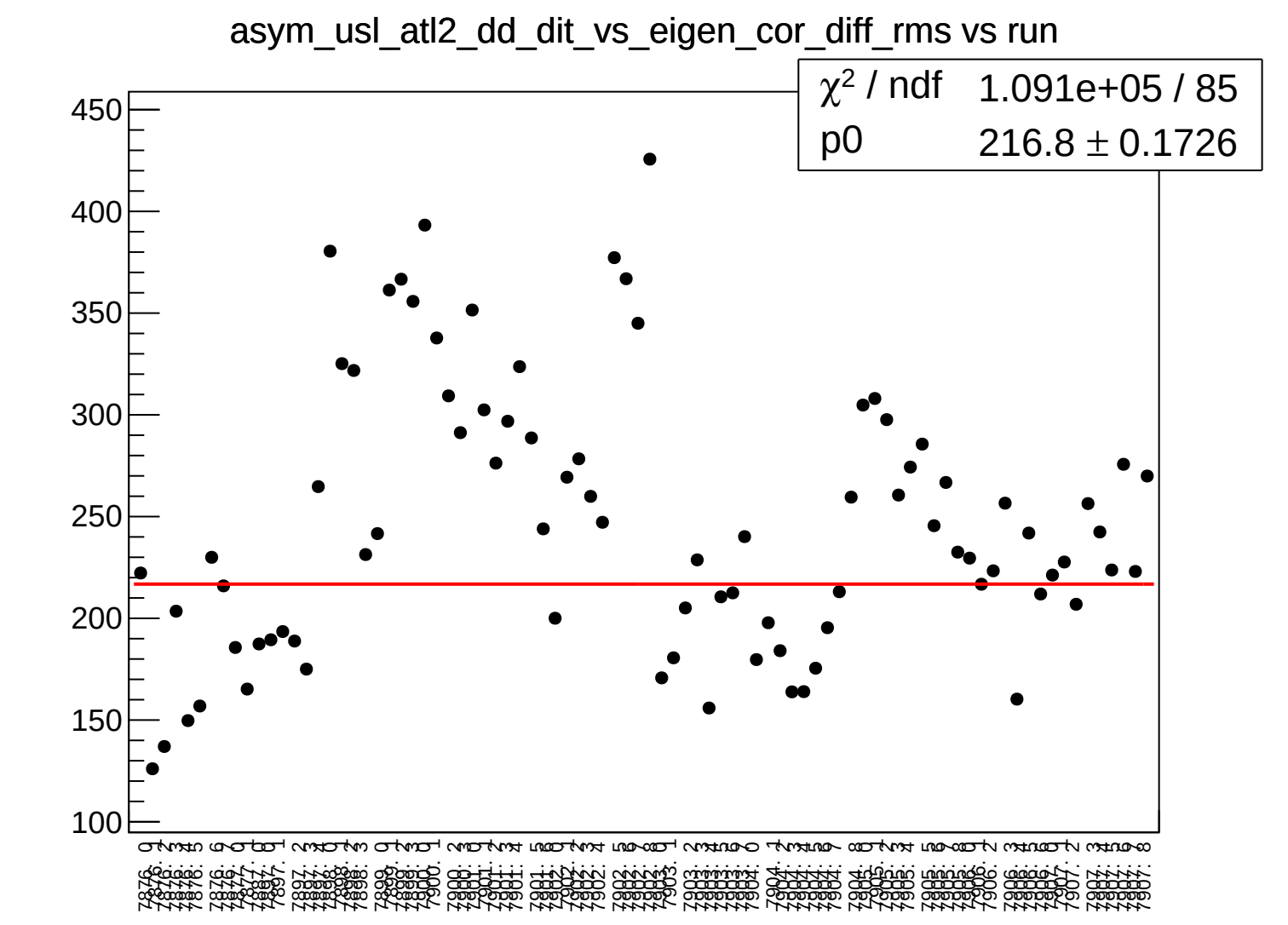

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.43 / 85
p0 −6.709e−13 ± 8.86e−13
pull
Entries 86
Mean 173.3
Std Dev 0
pull1D
Entries 86
Mean 0.0468
Std Dev 1.069

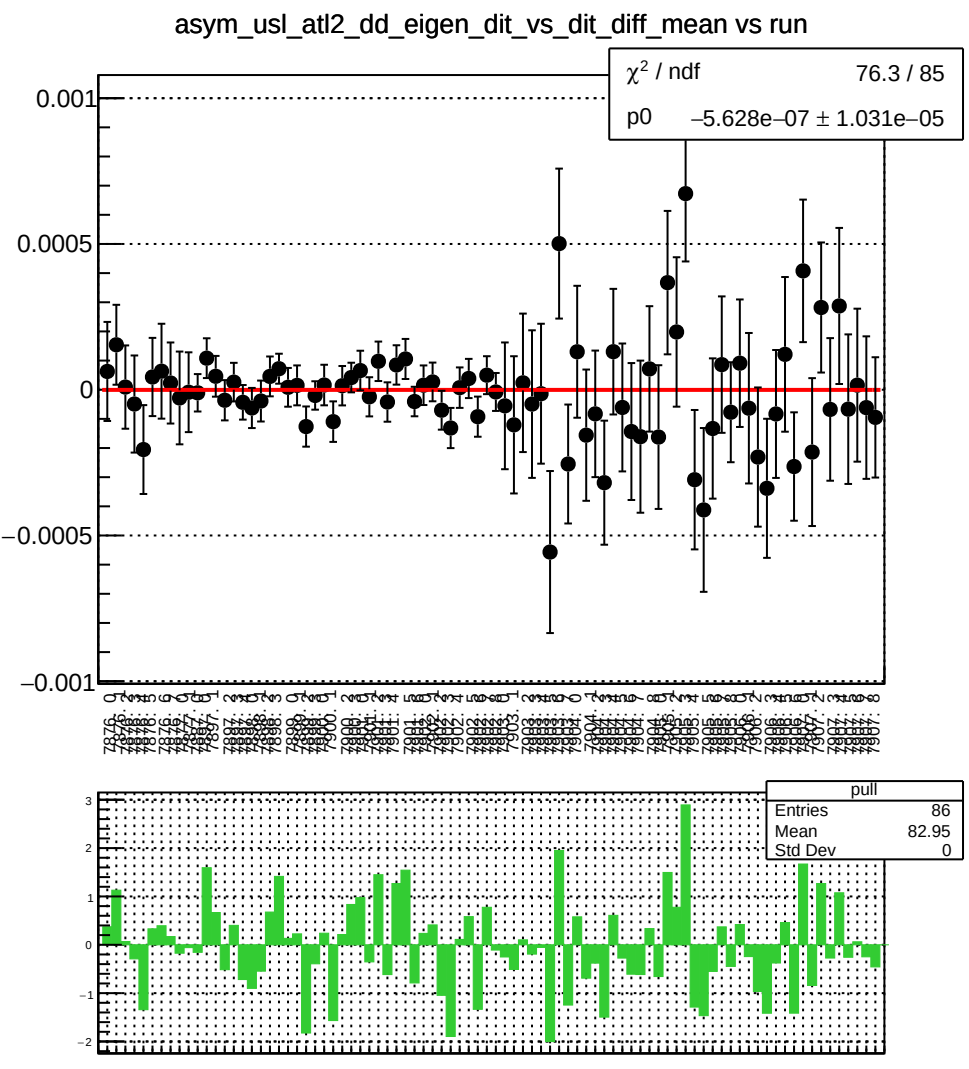

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.697e+05 / 85
p0 5.31e−10 ± 6.265e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

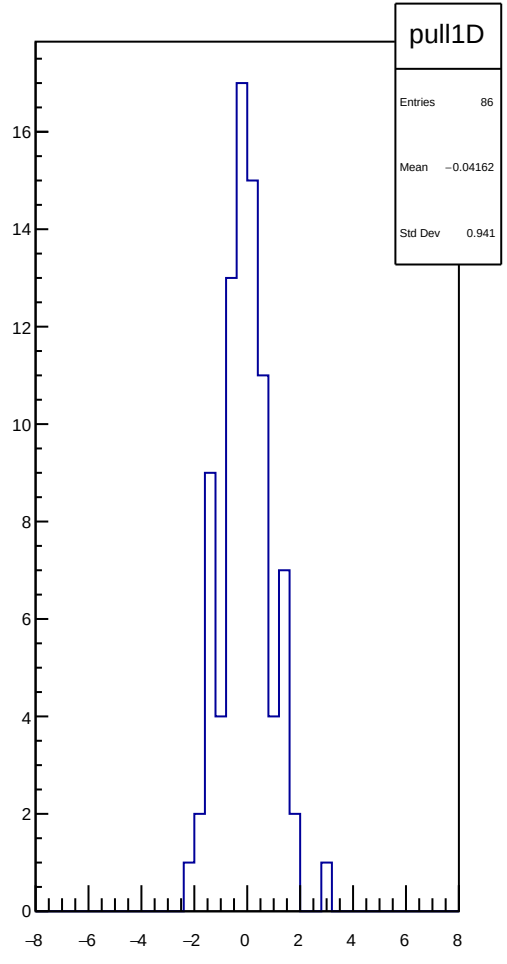

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.4 / 85
p0 −0.03184 ± 0.244
pull
Entries 86
Mean 925.8
Std Dev 0
pull1D
Entries 86
Mean 0.002766
Std Dev 0.9048

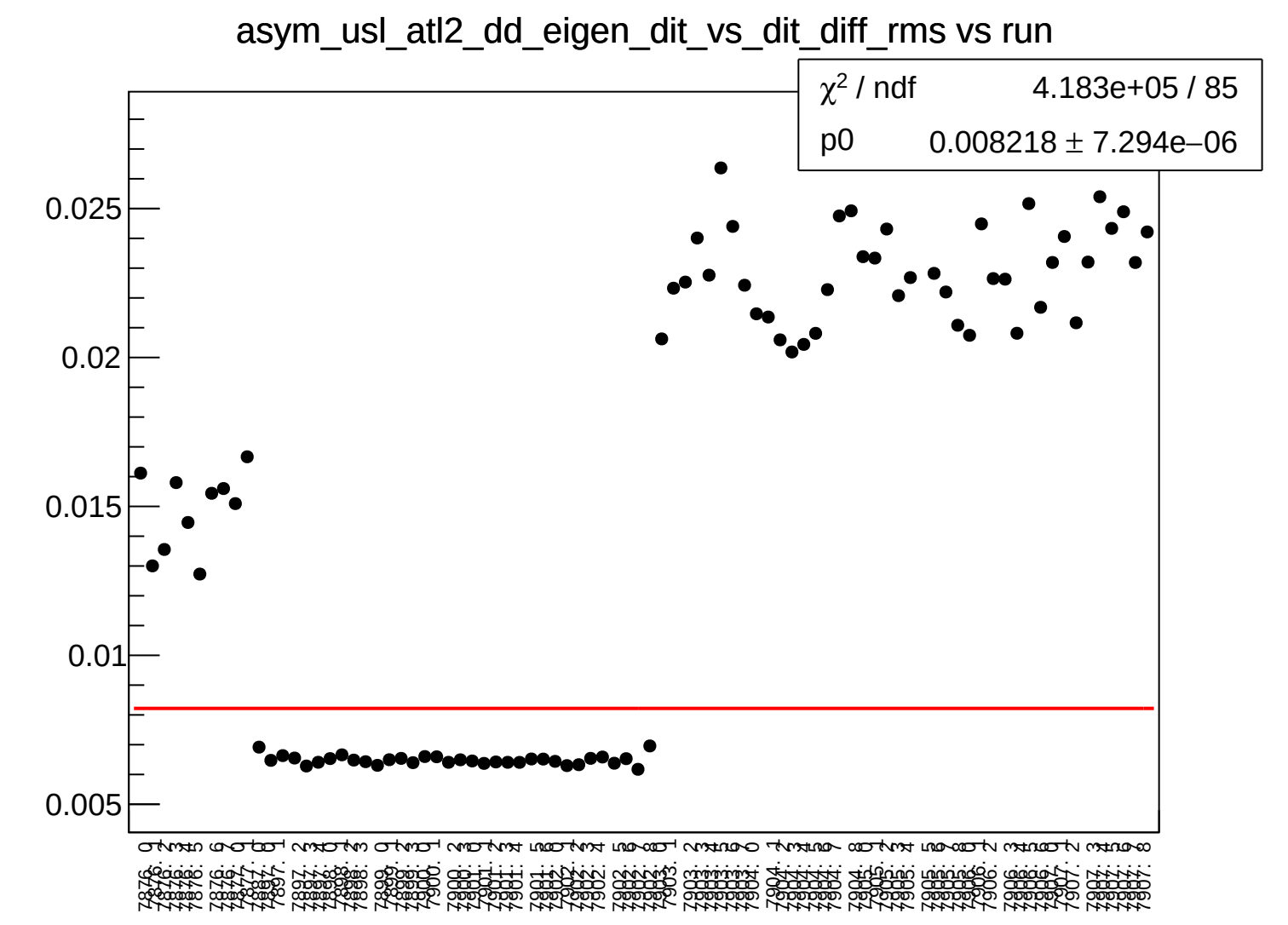

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.091e+05 / 85
p0 216.8 ± 0.1726
450
400
350
300
250
200
150
100

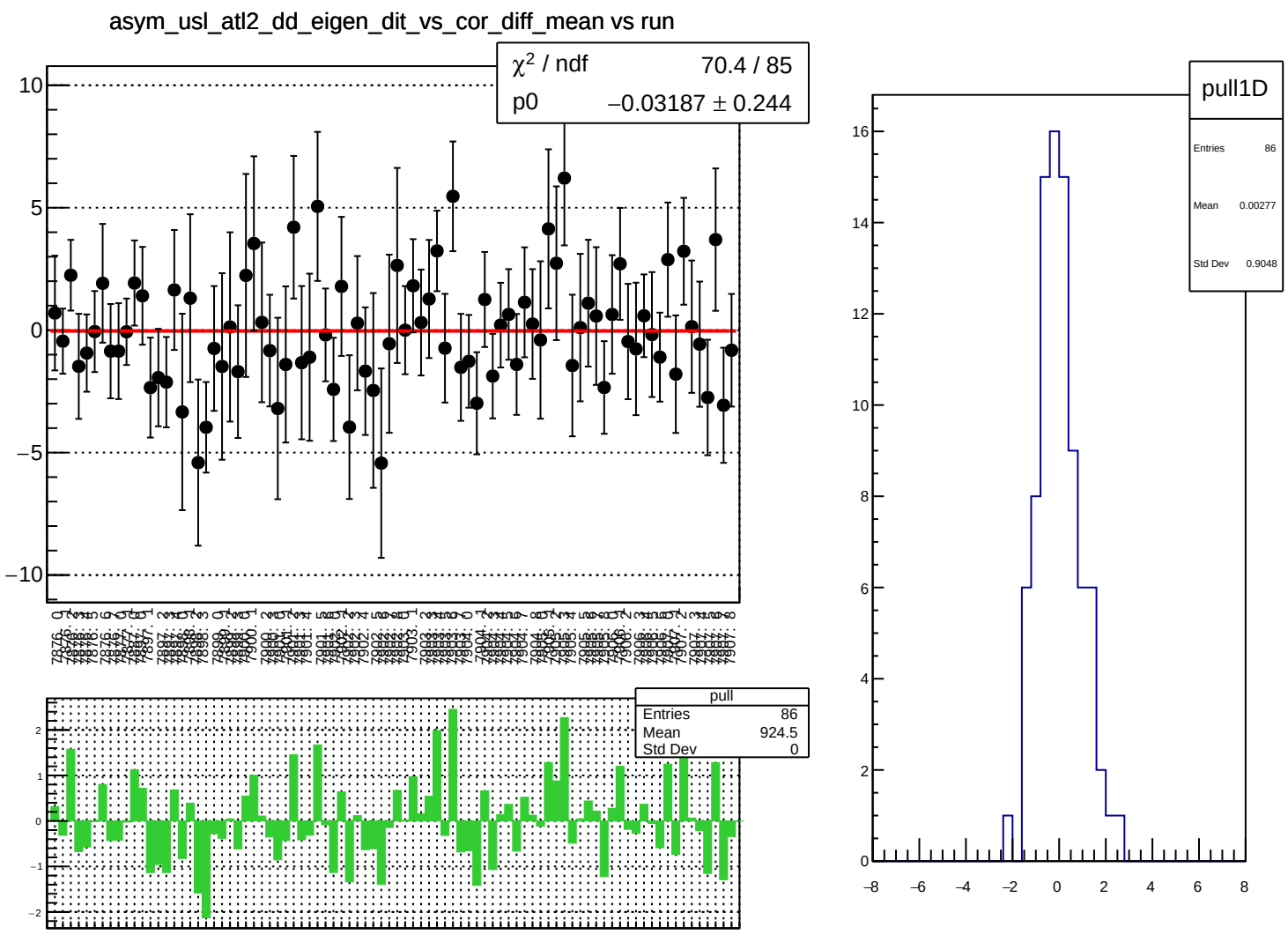

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.4 / 85
p0 −0.03184 ± 0.244
pull
Entries 86
Mean 925.8
Std Dev 0
pull1D
Entries 86
Mean 0.002766
Std Dev 0.9048

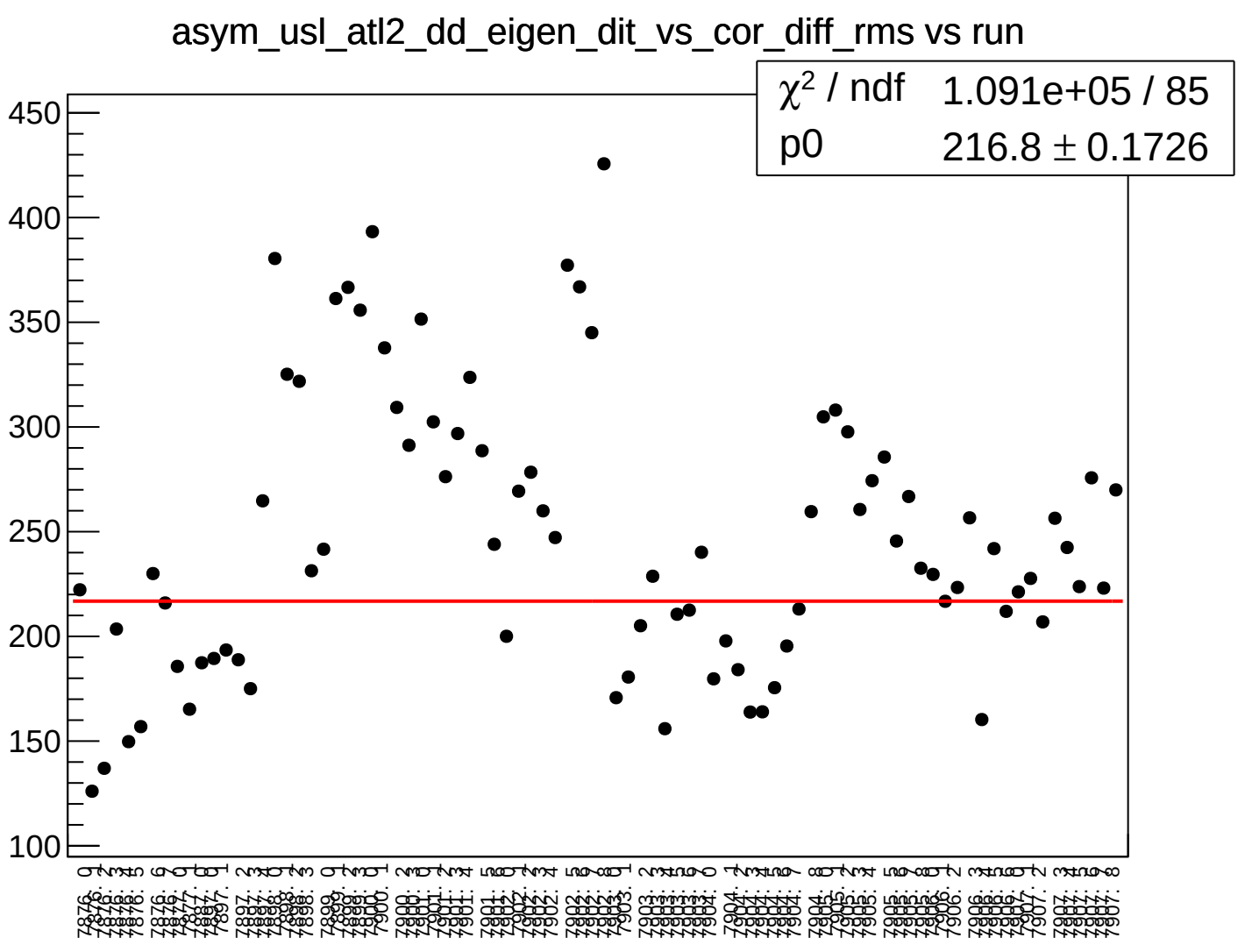

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.091e+05 / 85
p0 216.8 ± 0.1726
450
400
350
300
250
200
150
100


asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.3 / 85
p0 −5.628e−07 ± 1.031e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 82.95
Std Dev 0
3
2
1
0
−1
−2

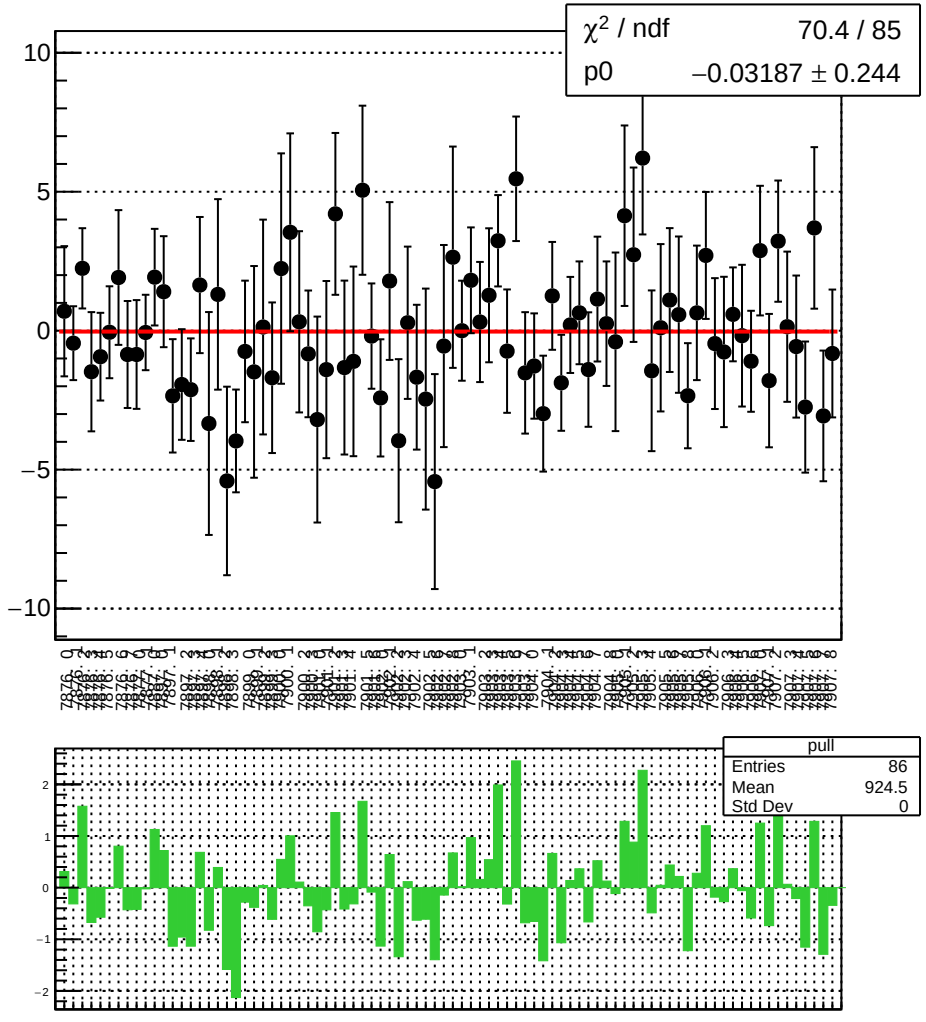

pull1D
Entries 86
Mean −0.04162
Std Dev 0.941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

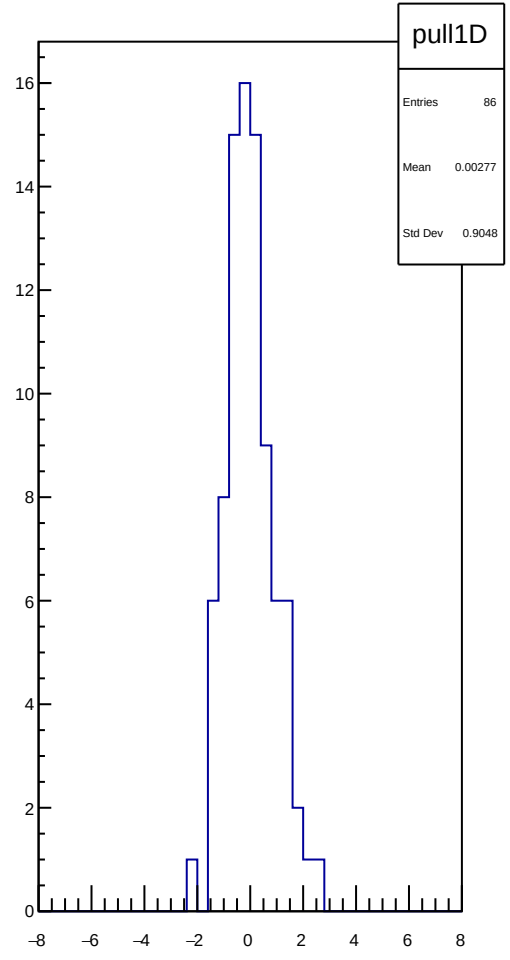

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.183e+05 / 85
p0 0.008218 ± 7.294e−06
0.025
0.02
0.015
0.01
0.005

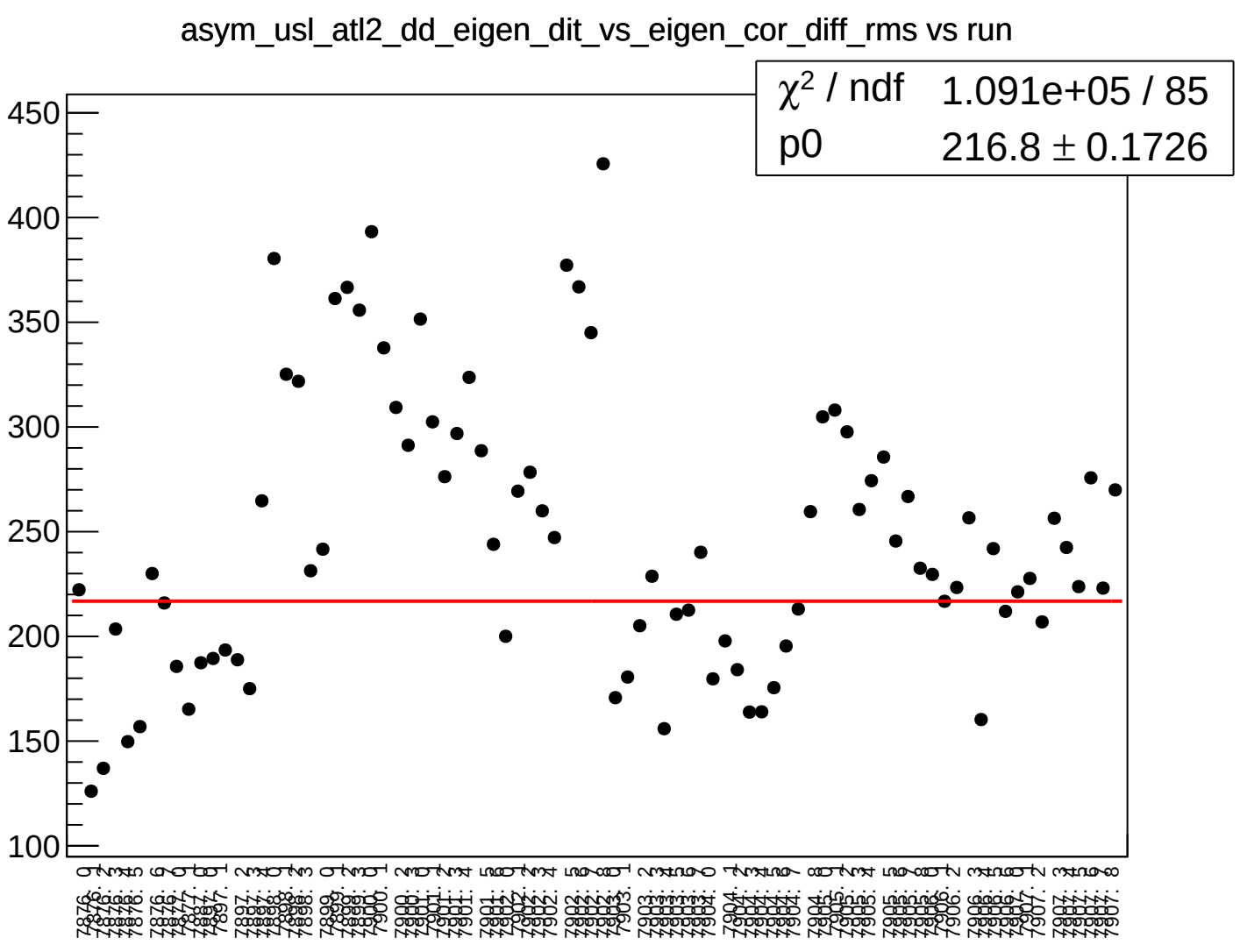

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.4 / 85
p0 −0.03187 ± 0.244
pull
Entries 86
Mean 924.5
Std Dev 0
pull1D
Entries 86
Mean 0.00277
Std Dev 0.9048

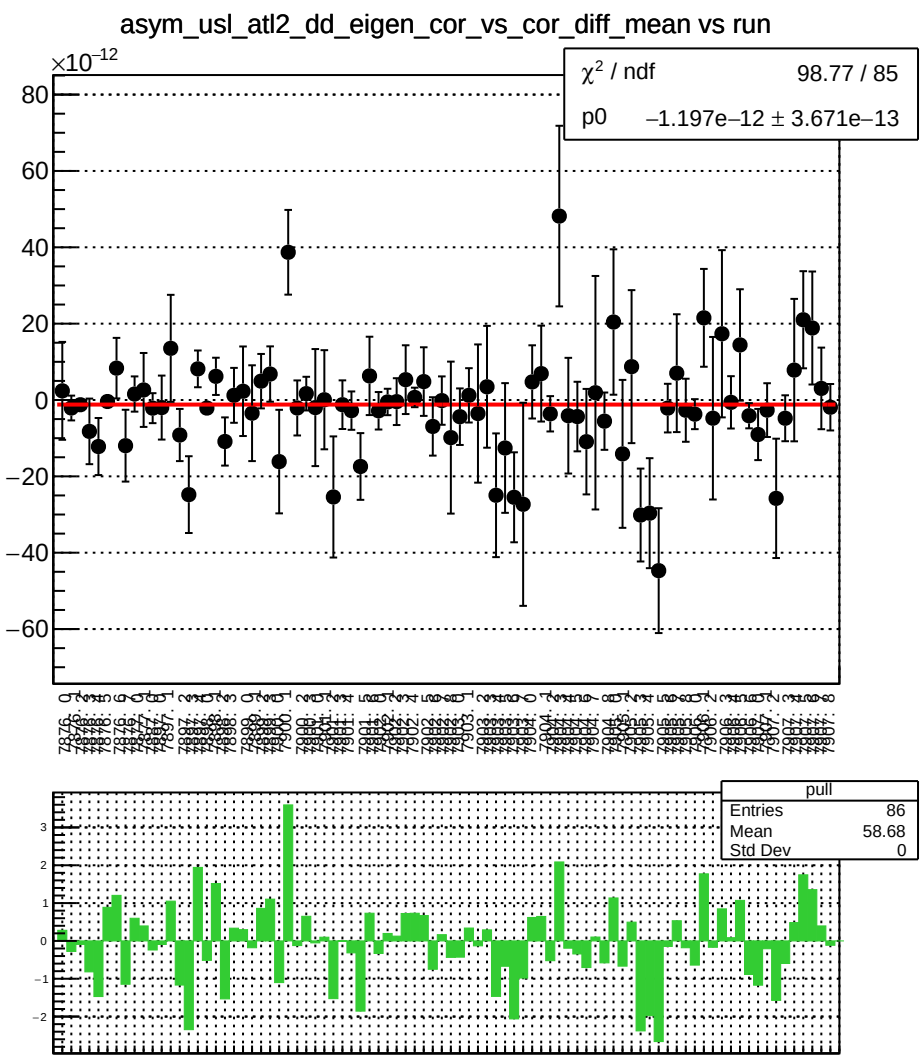

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.091e+05 / 85
p0 216.8 ± 0.1726
450
400
350
300
250
200
150
100

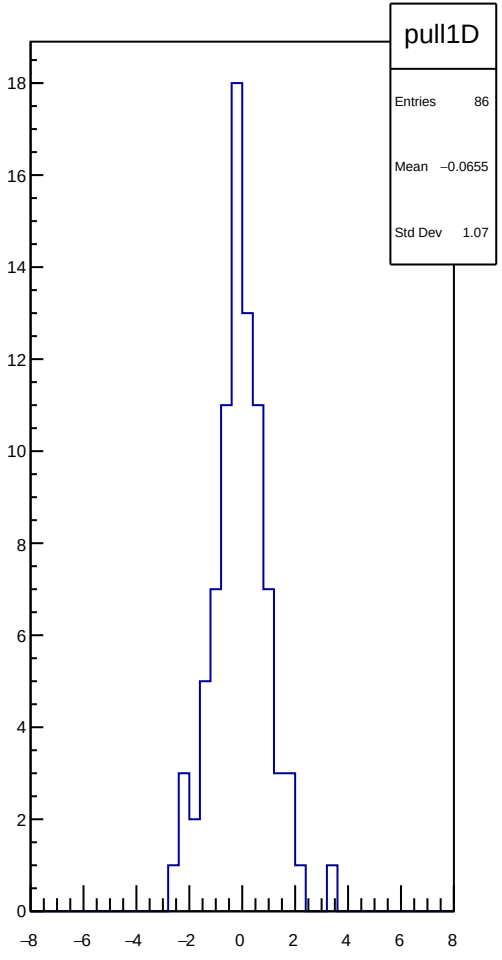
asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

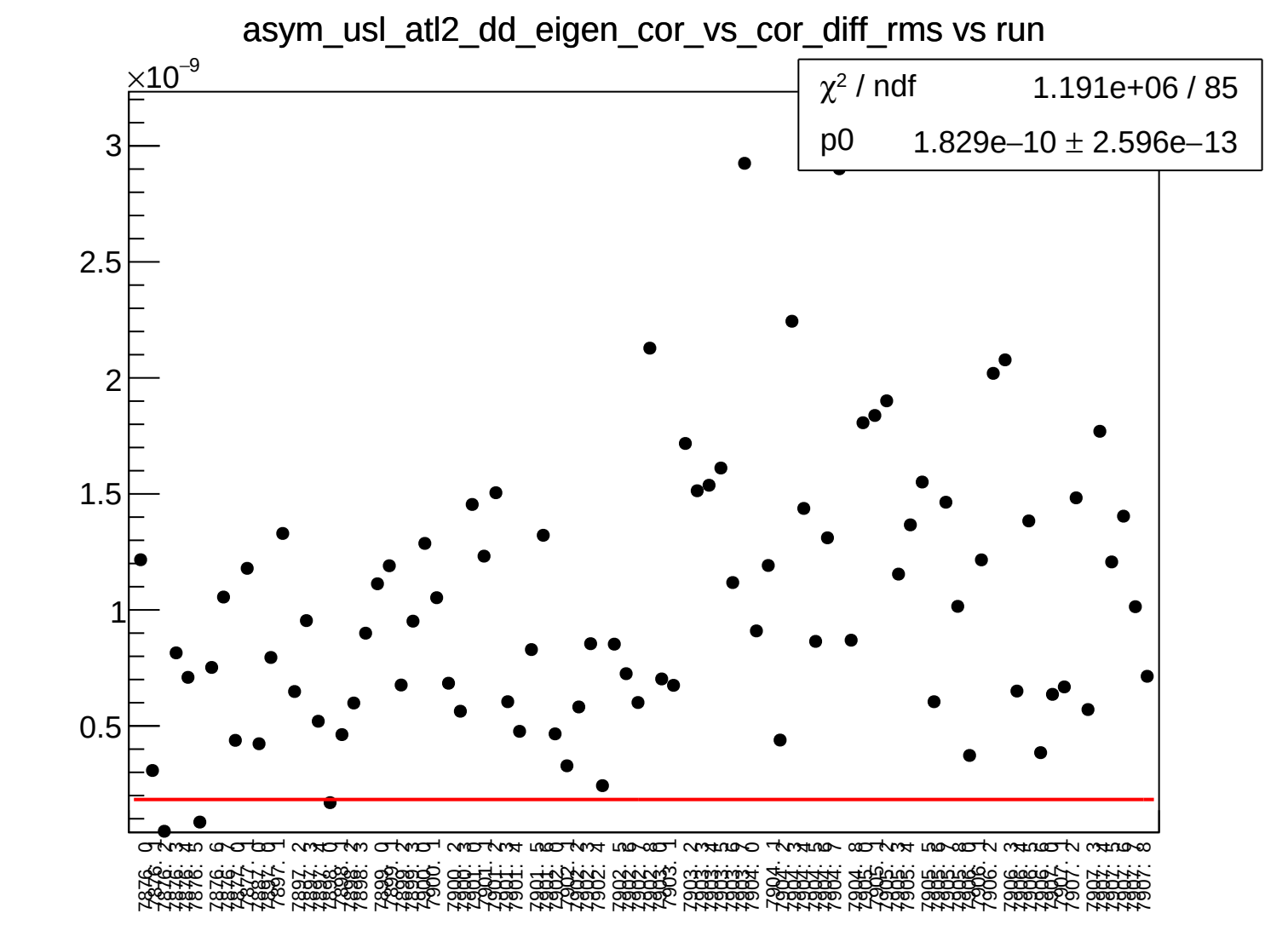


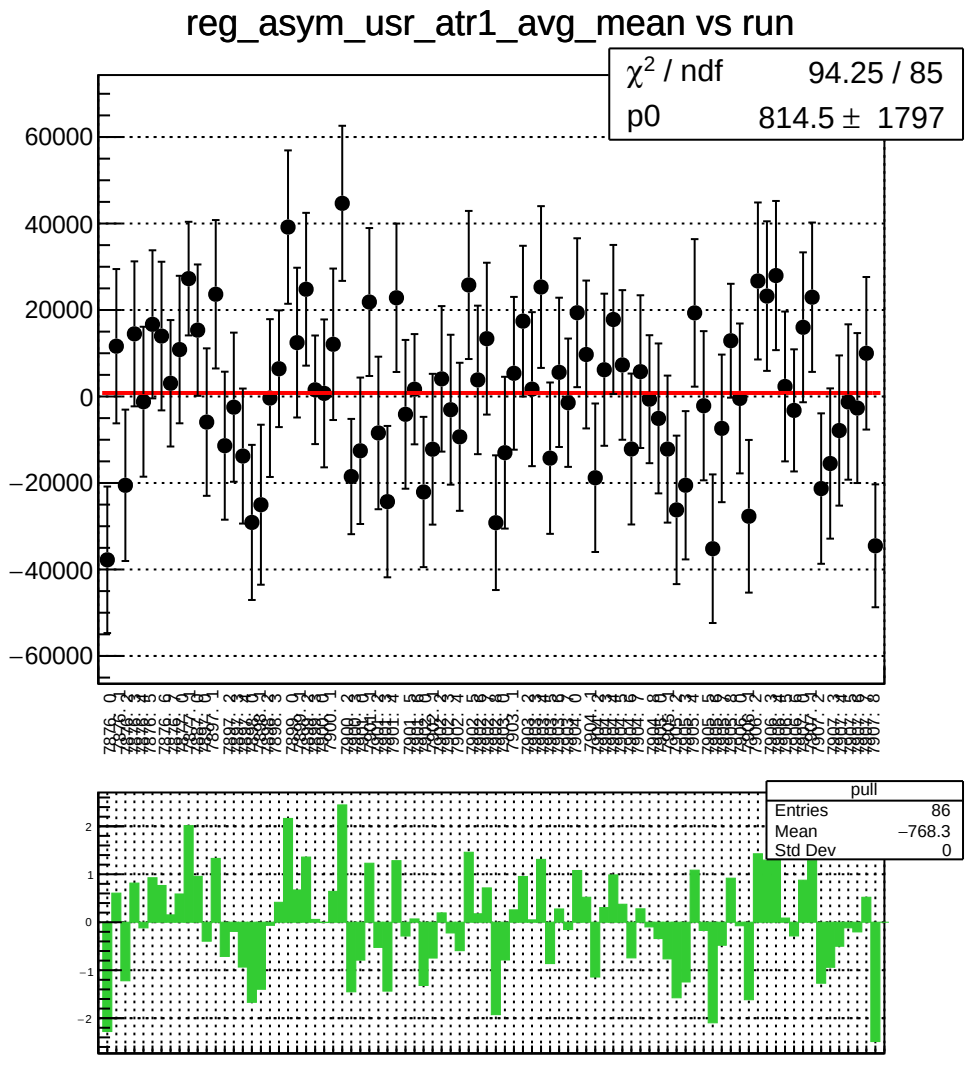


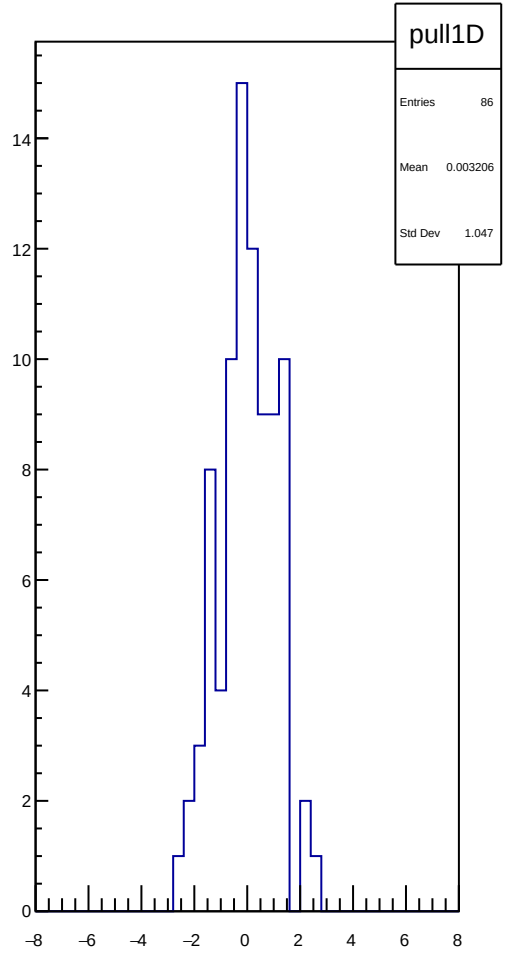

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.091e+05 / 85
p0 216.8 ± 0.1726
450
400
350
300
250
200
150
100

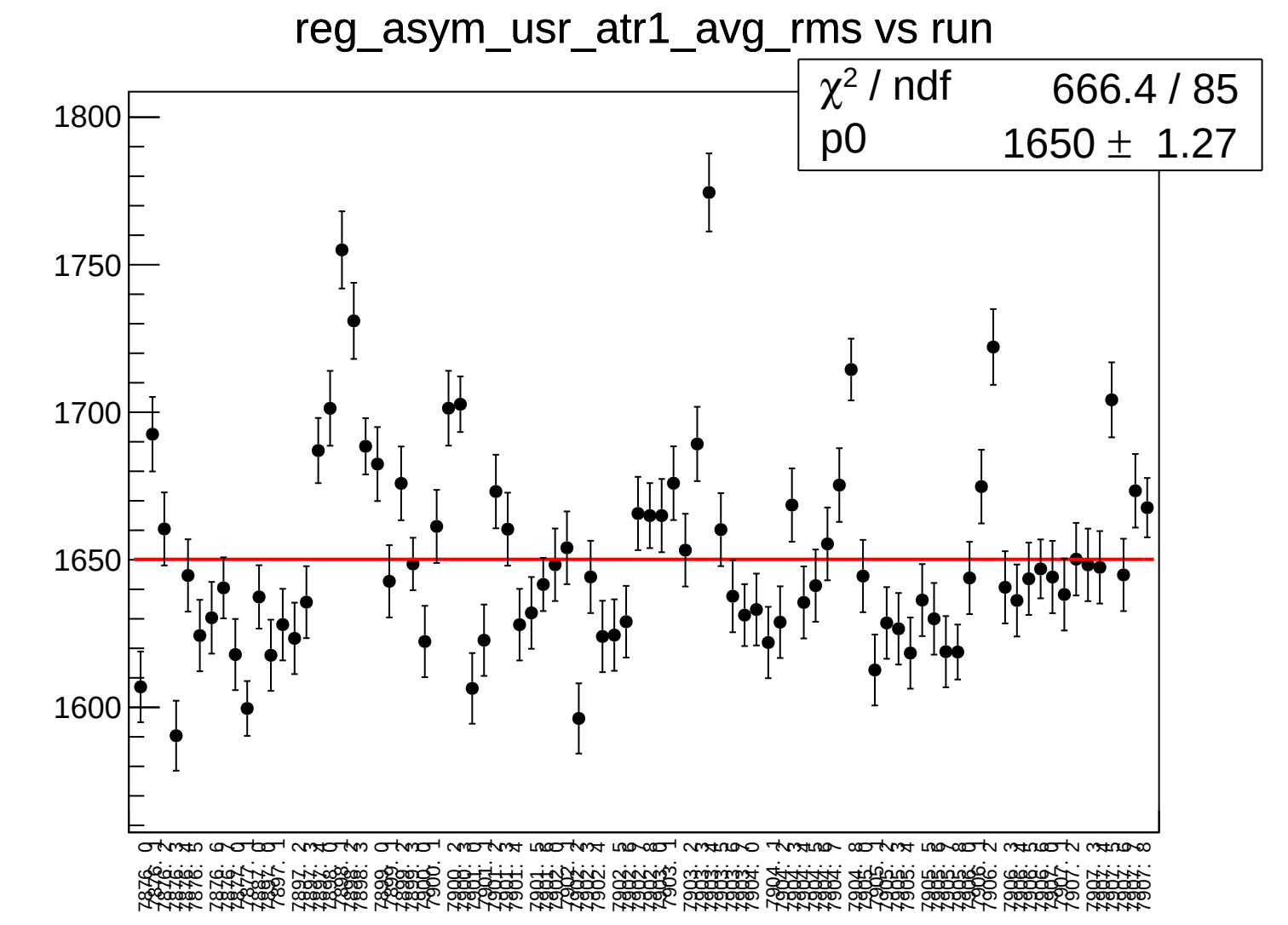

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.77 / 85
p0 −1.197e−12 ± 3.671e−13
pull
Entries 86
Mean 58.68
Std Dev 0

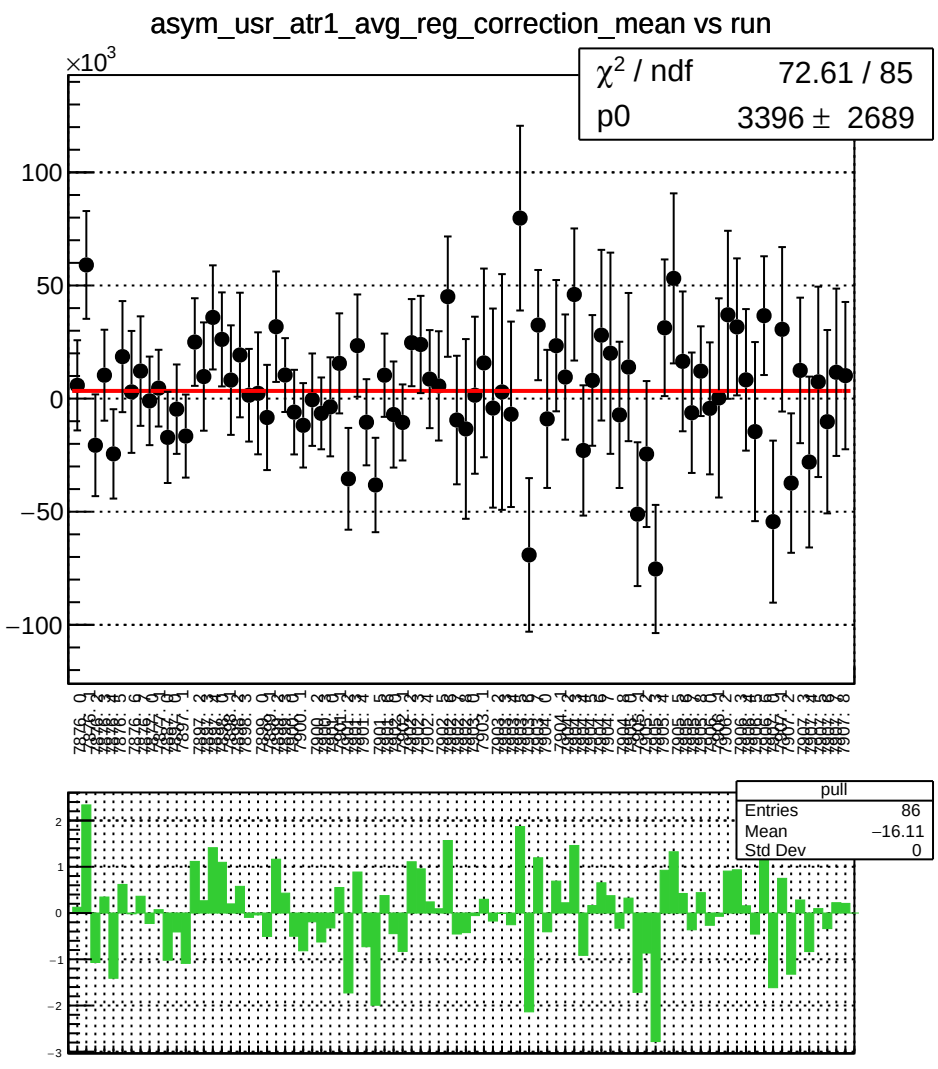

pull1D
Entries 86
Mean −0.0655
Std Dev 1.07

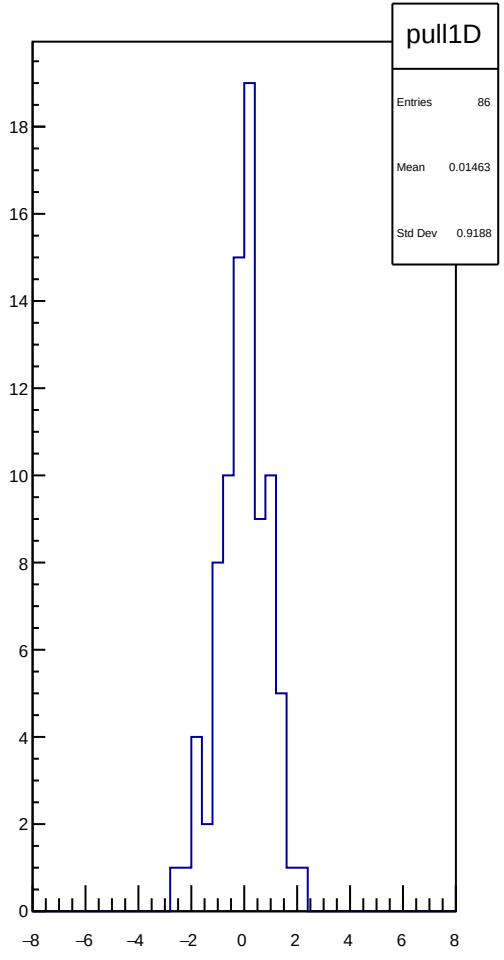

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.191e+06 / 85
p0 1.829e−10 ± 2.596e−13
3
2.5
2
1.5
1
0.5

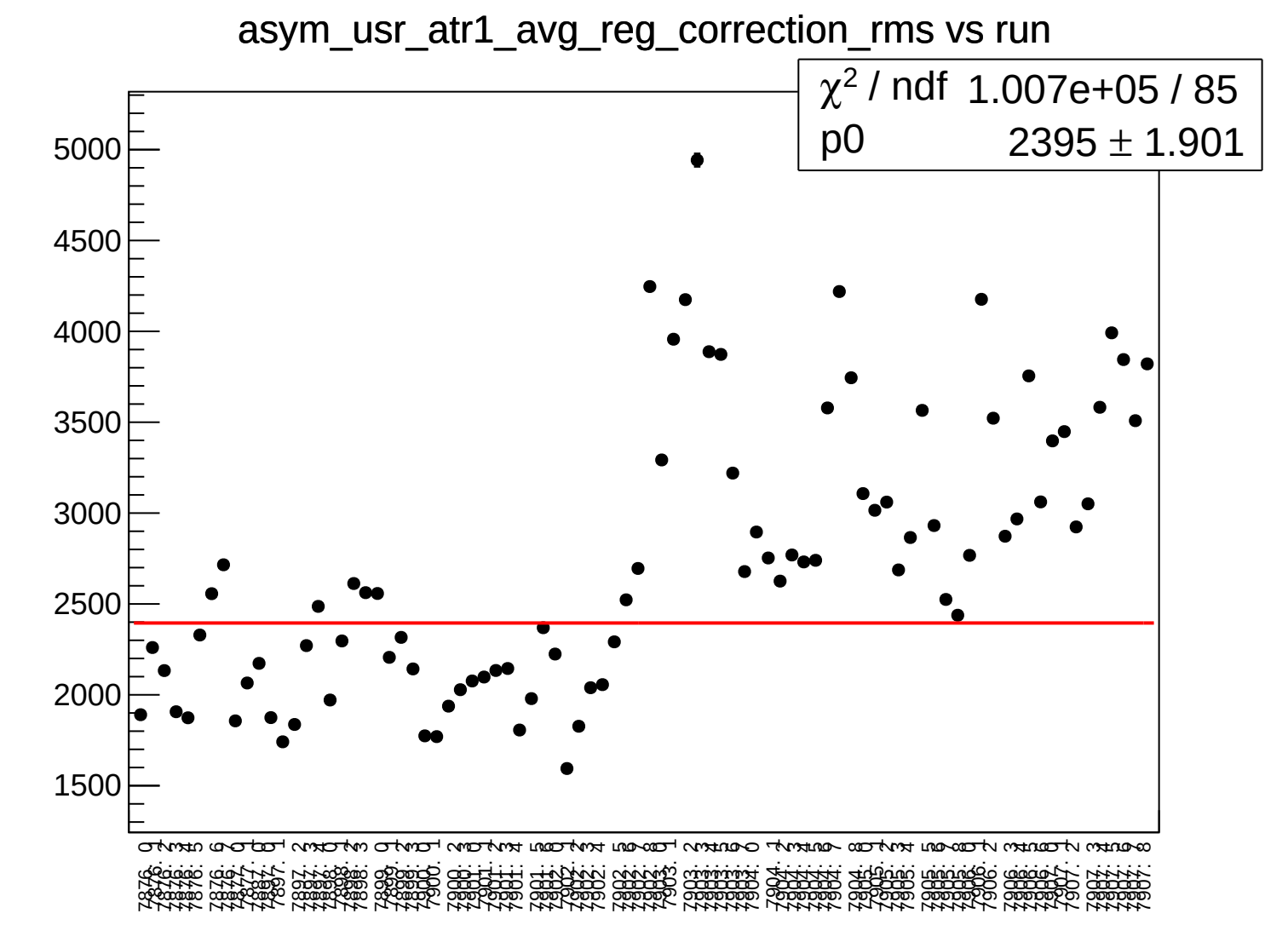

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.25 / 85
p0 814.5 ± 1797
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −768.3
Std Dev 0
2
1
0
−1
−2

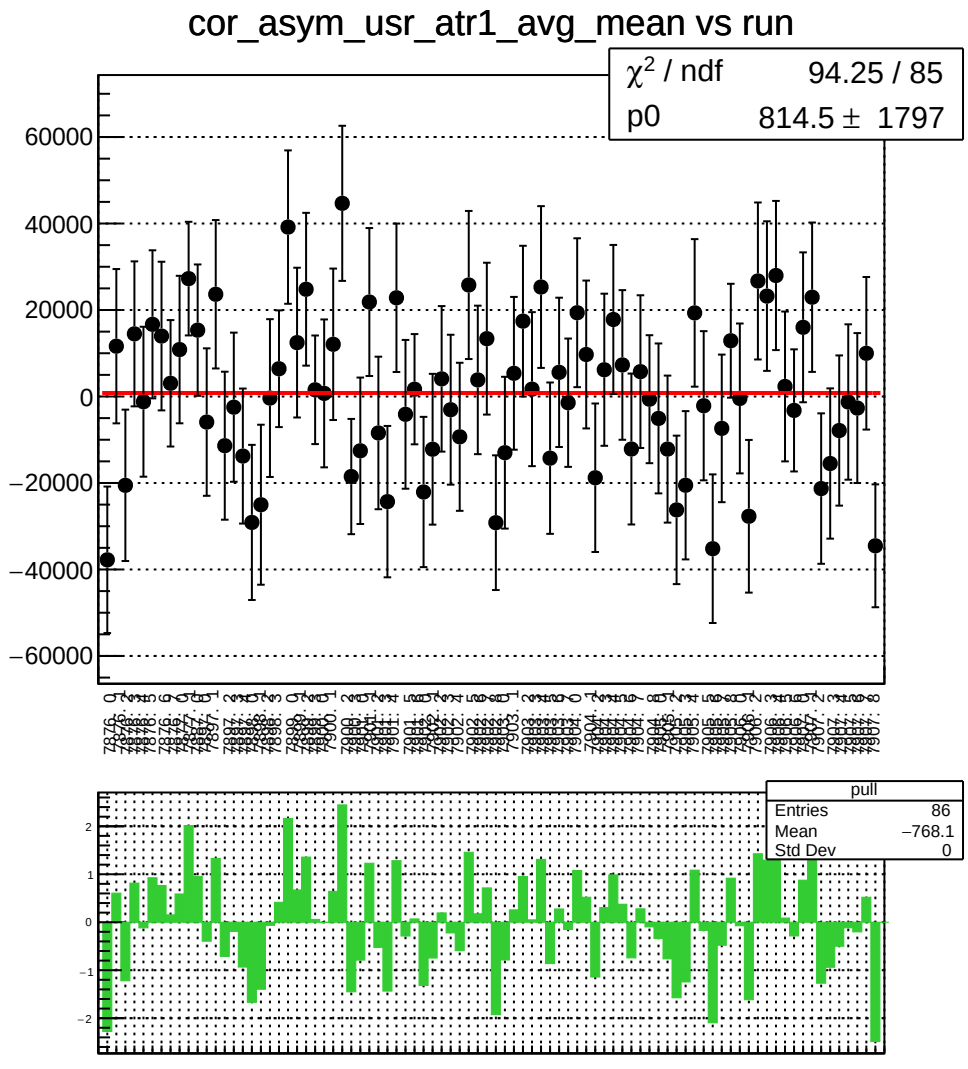

pull1D
Entries 86
Mean 0.003206
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

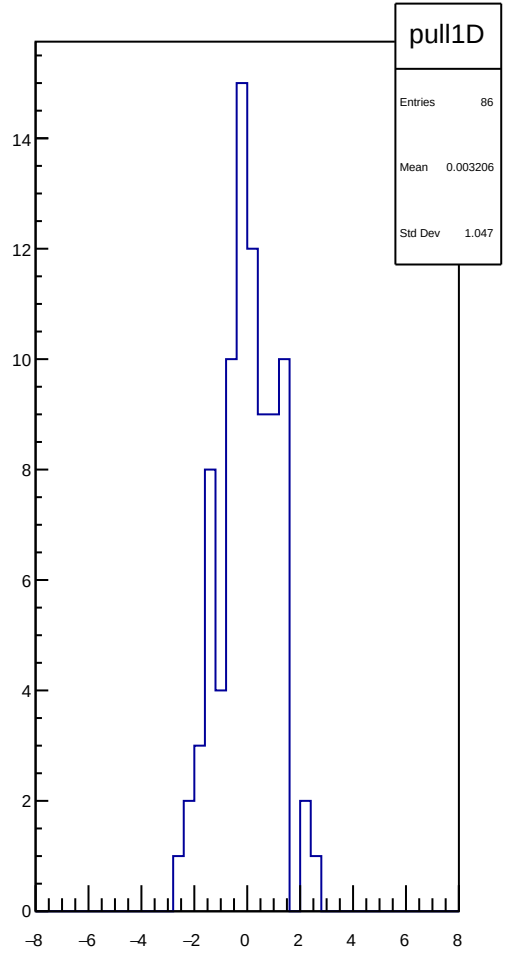

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 666.4 / 85
p0 1650 ± 1.27
1800
1750
1700
1650
1600

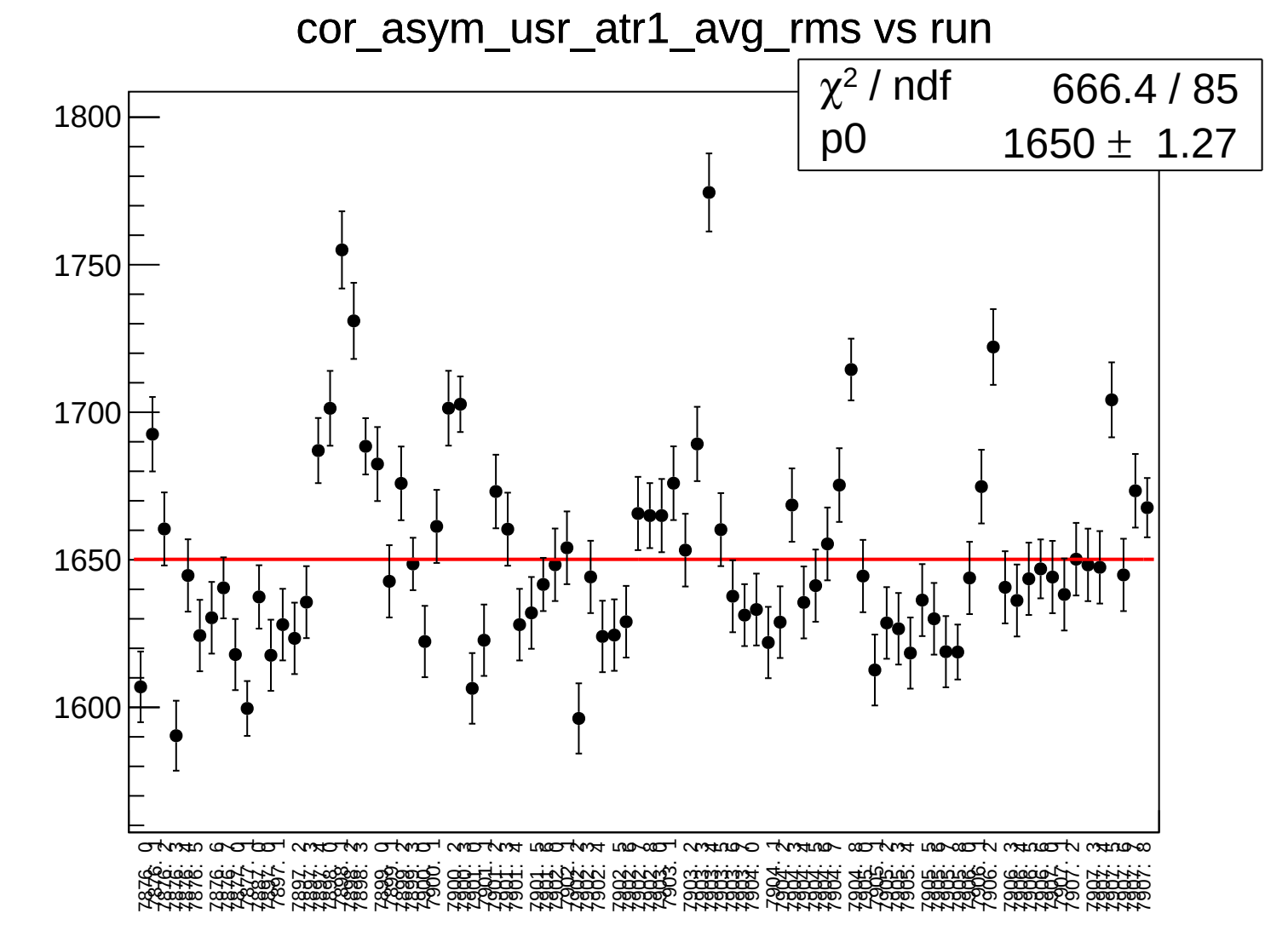

asym_usr_atr1_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.61 / 85
p0 3396 ± 2689
100
50
0
−50
−100
pull
Entries 86
Mean −16.11
Std Dev 0
2
1
0
−1
−2
−3

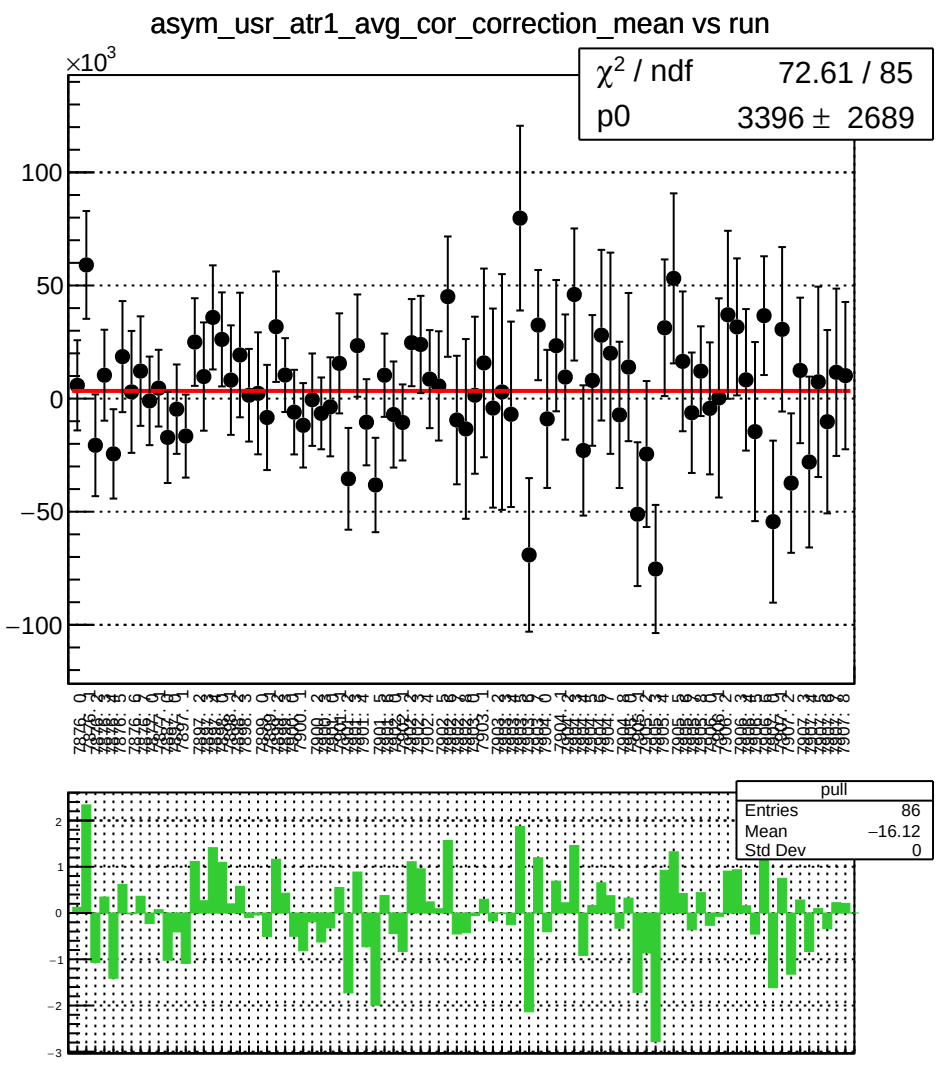

pull1D
Entries 86
Mean 0.01463
Std Dev 0.9188
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

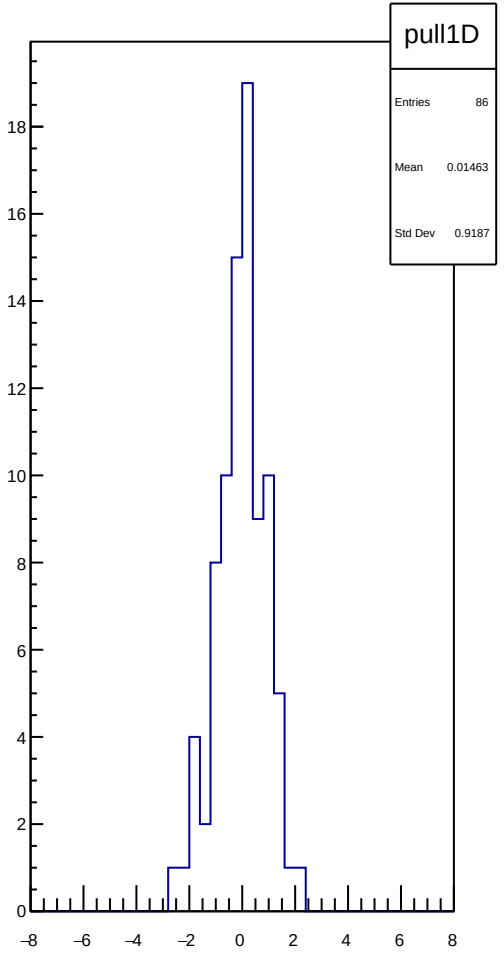

asym_usr_atr1_avg_reg_correction_rms vs run
χ^2 / ndf 1.007e+05 / 85
p0 2395 ± 1.901
5000
4500
4000
3500
3000
2500
2000
1500

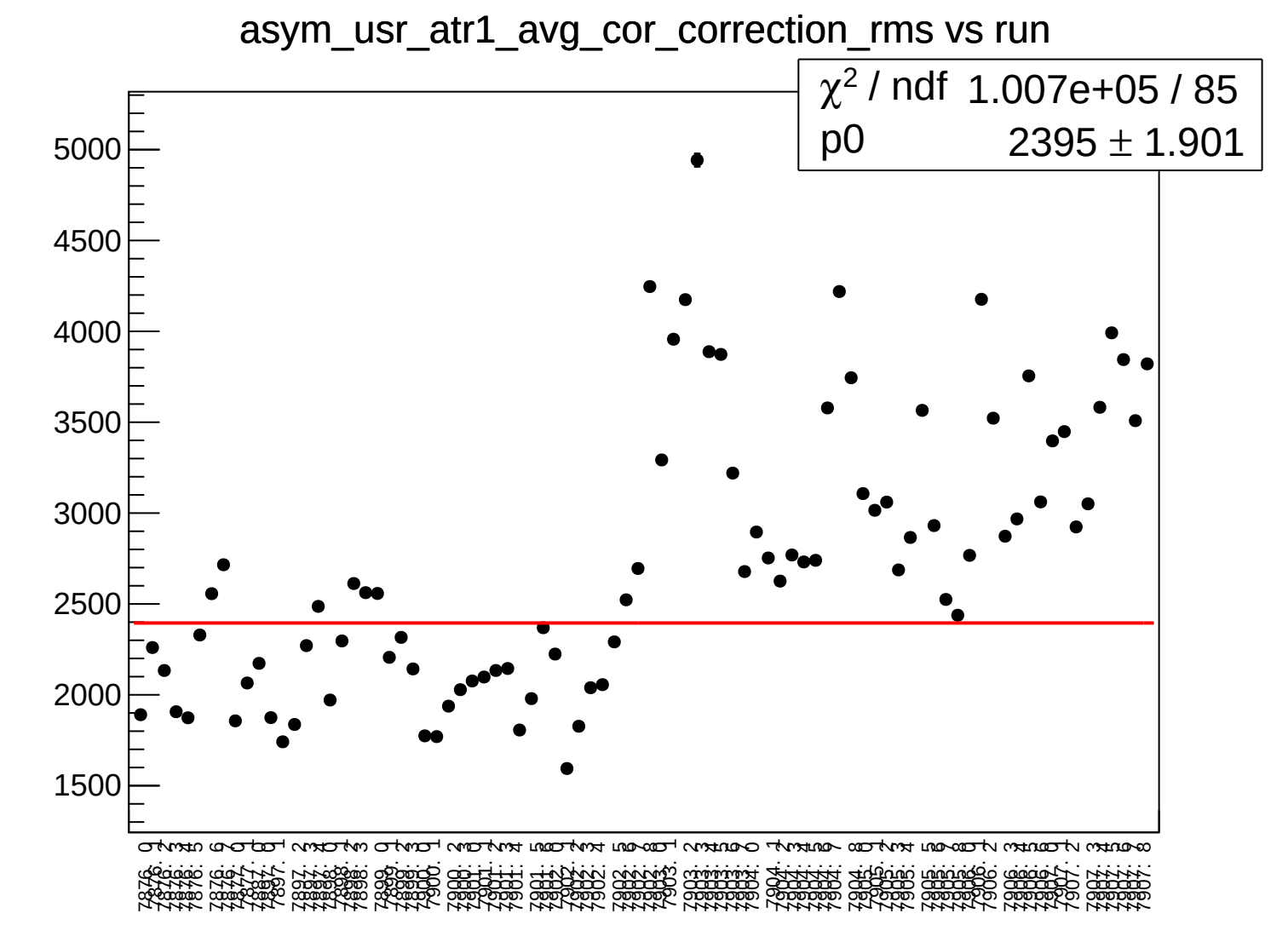

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.25 / 85
p0 814.5 ± 1797
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −768.1
Std Dev 0
2
1
0
−1
−2

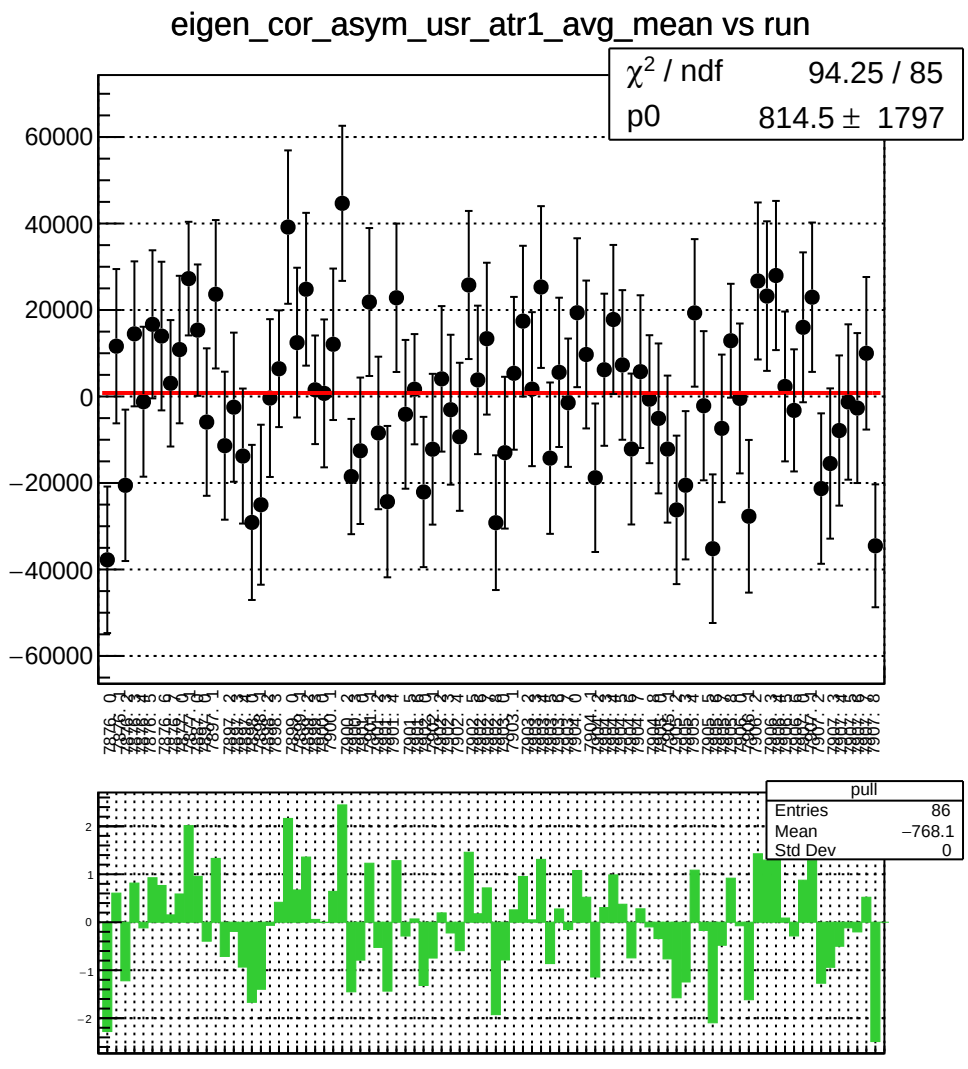

pull1D
Entries 86
Mean 0.003206
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

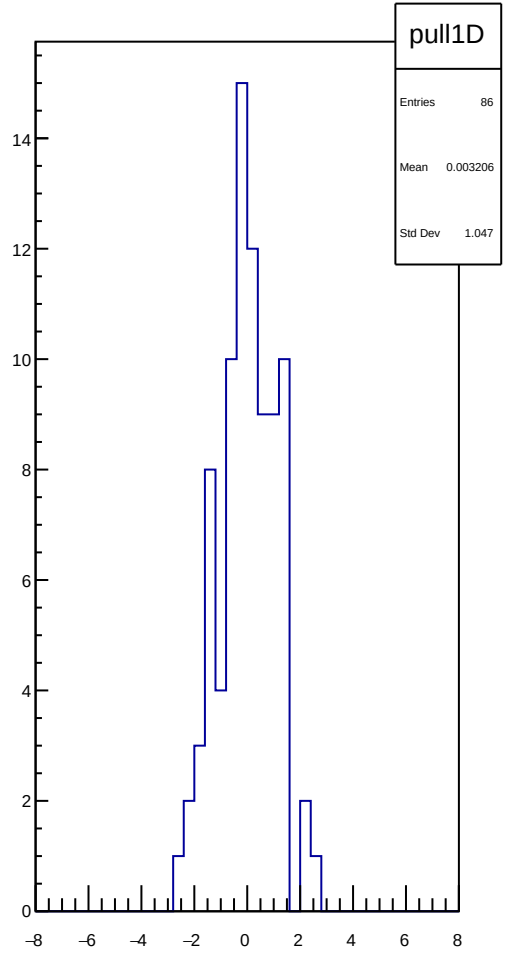

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 666.4 / 85
p0 1650 ± 1.27
1800
1750
1700
1650
1600

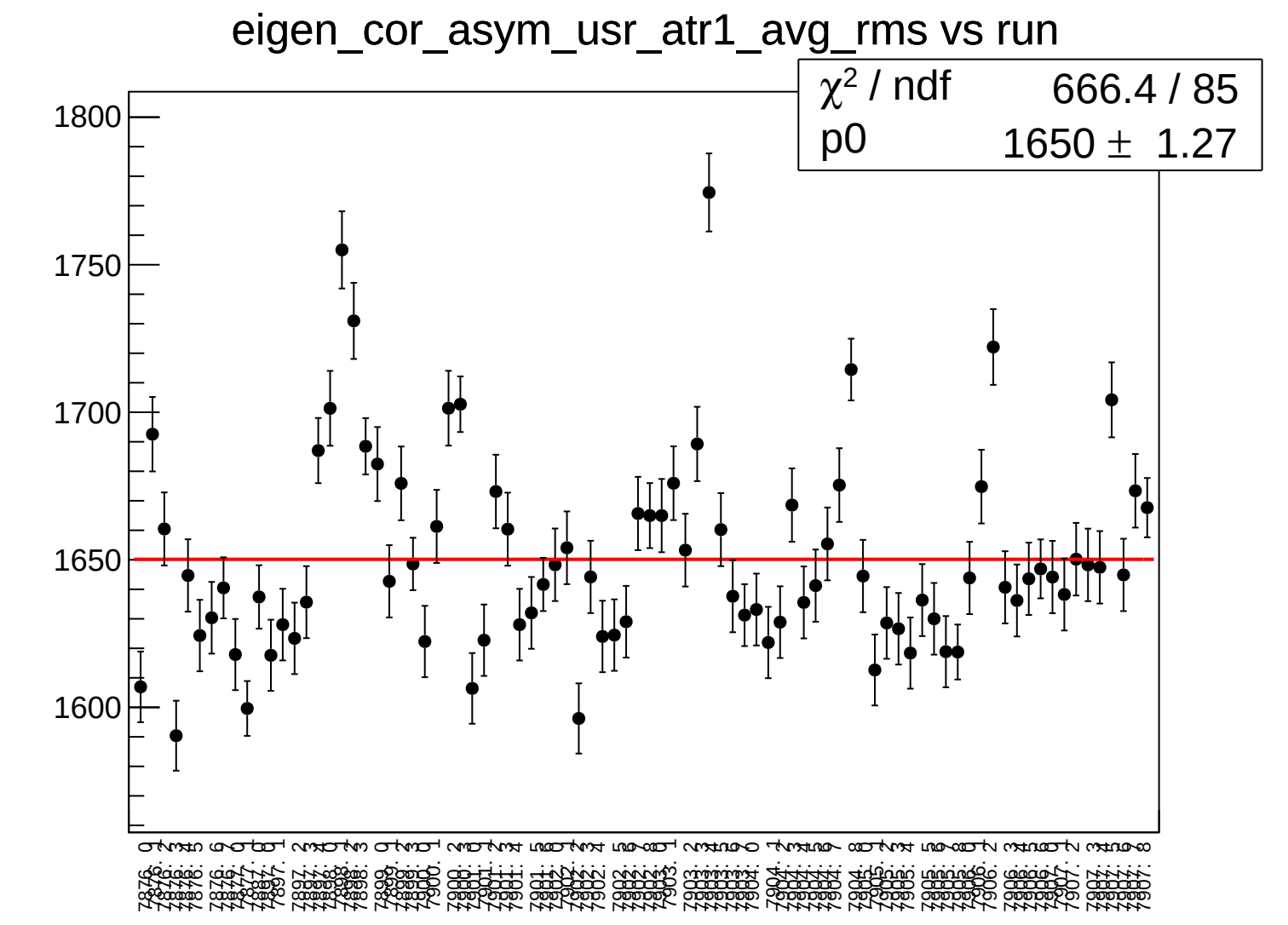

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 72.61 / 85
p0 3396 ± 2689
×10³
100
50
0
−50
−100
pull
Entries 86
Mean −16.12
Std Dev 0
2
1
0
−1
−2
−3

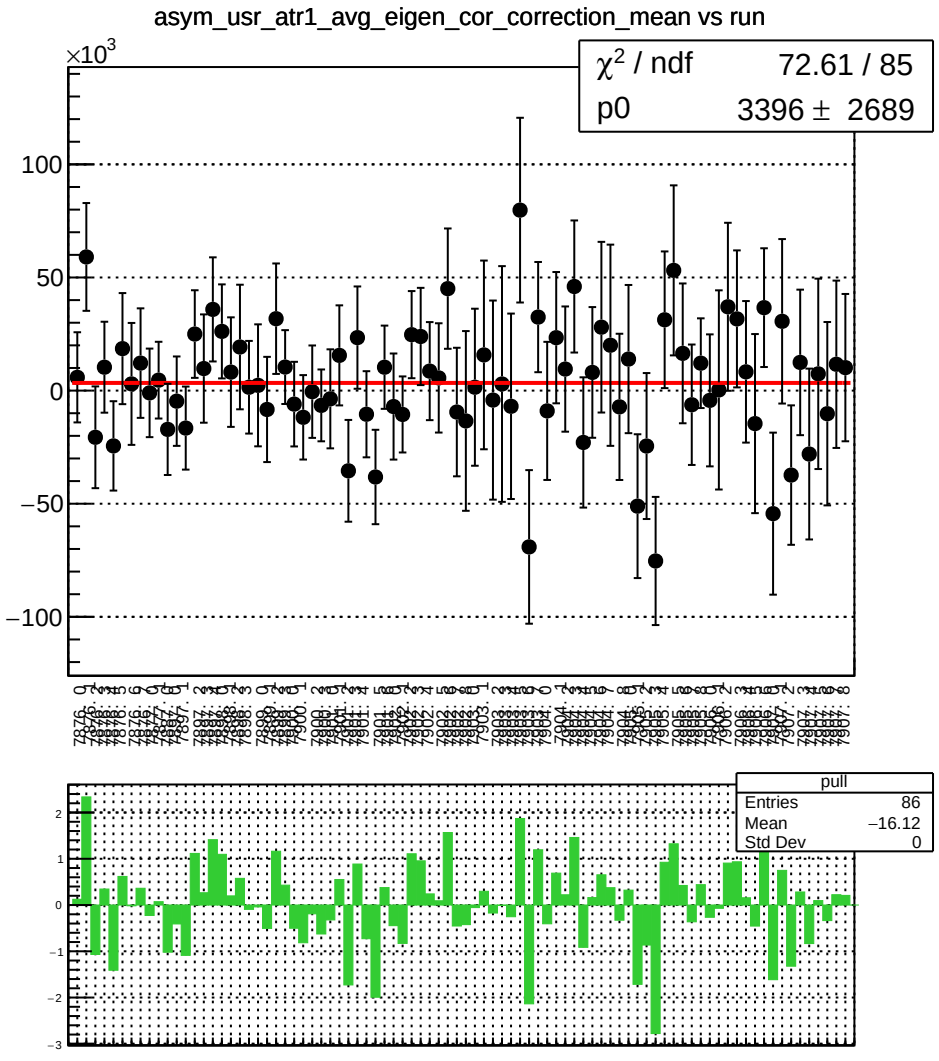

pull1D
Entries 86
Mean 0.01463
Std Dev 0.9187
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

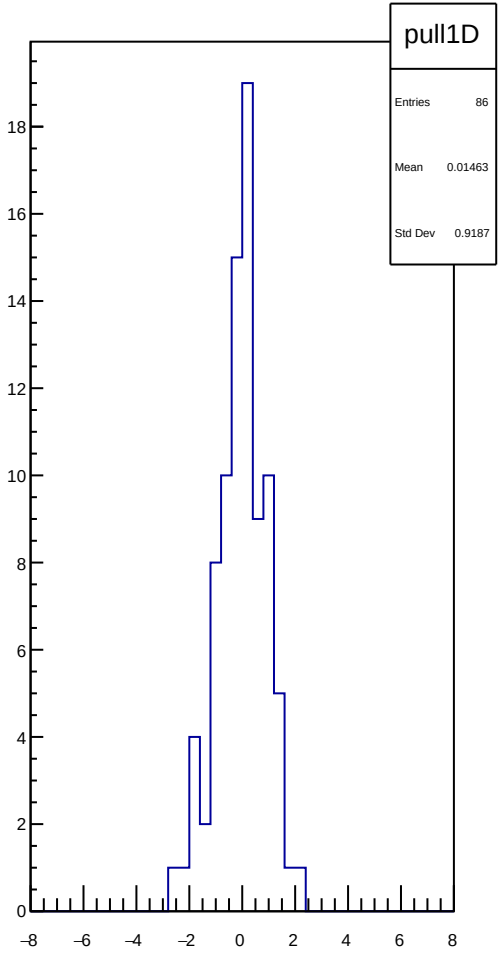

asym_usr_atr1_avg_cor_correction_rms vs run
χ^2 / ndf 1.007e+05 / 85
p0 2395 ± 1.901
5000
4500
4000
3500
3000
2500
2000
1500

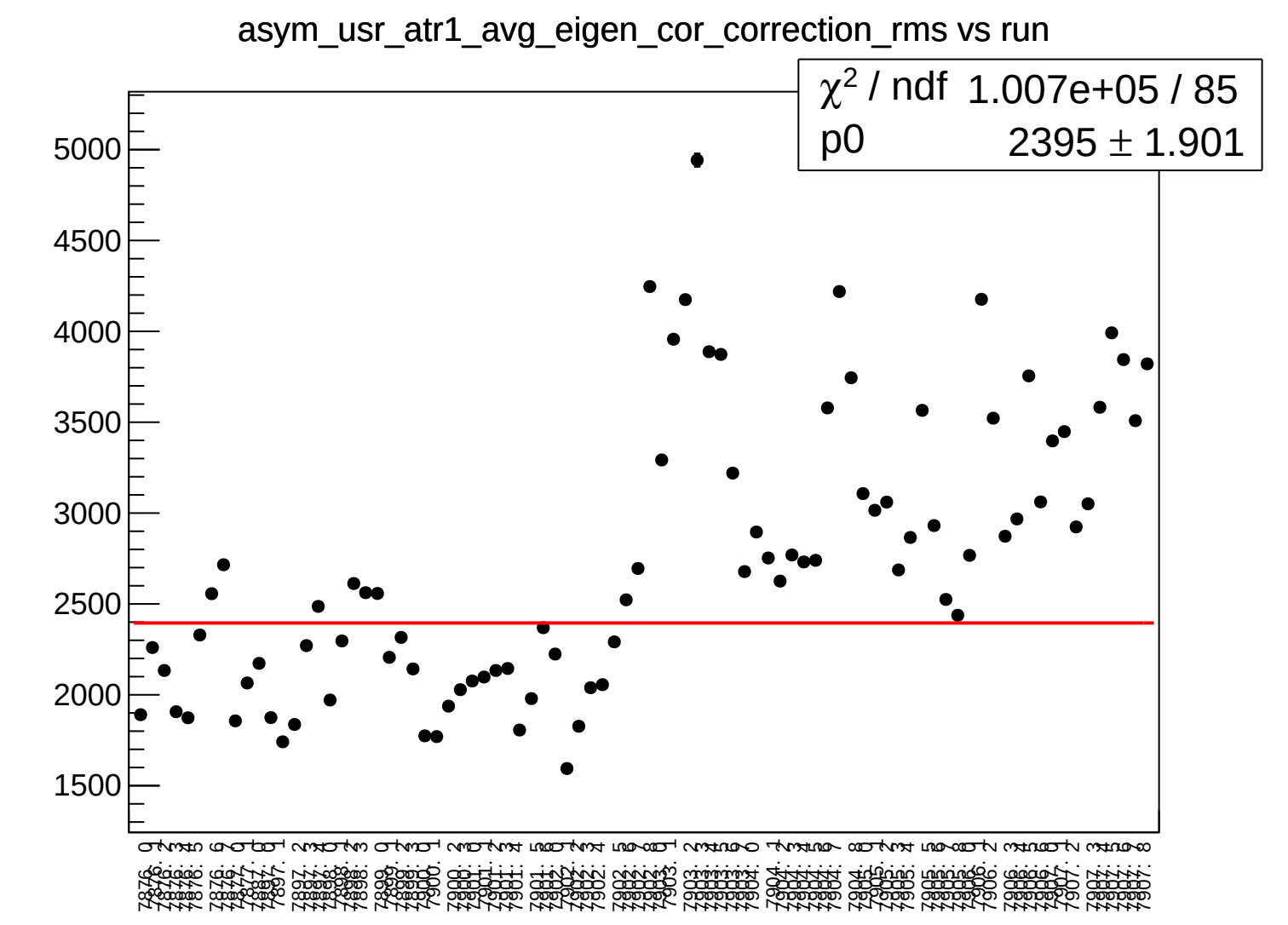

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.25 / 85
p0 814.5 ± 1797
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −768.1
Std Dev 0
2
1
0
−1
−2

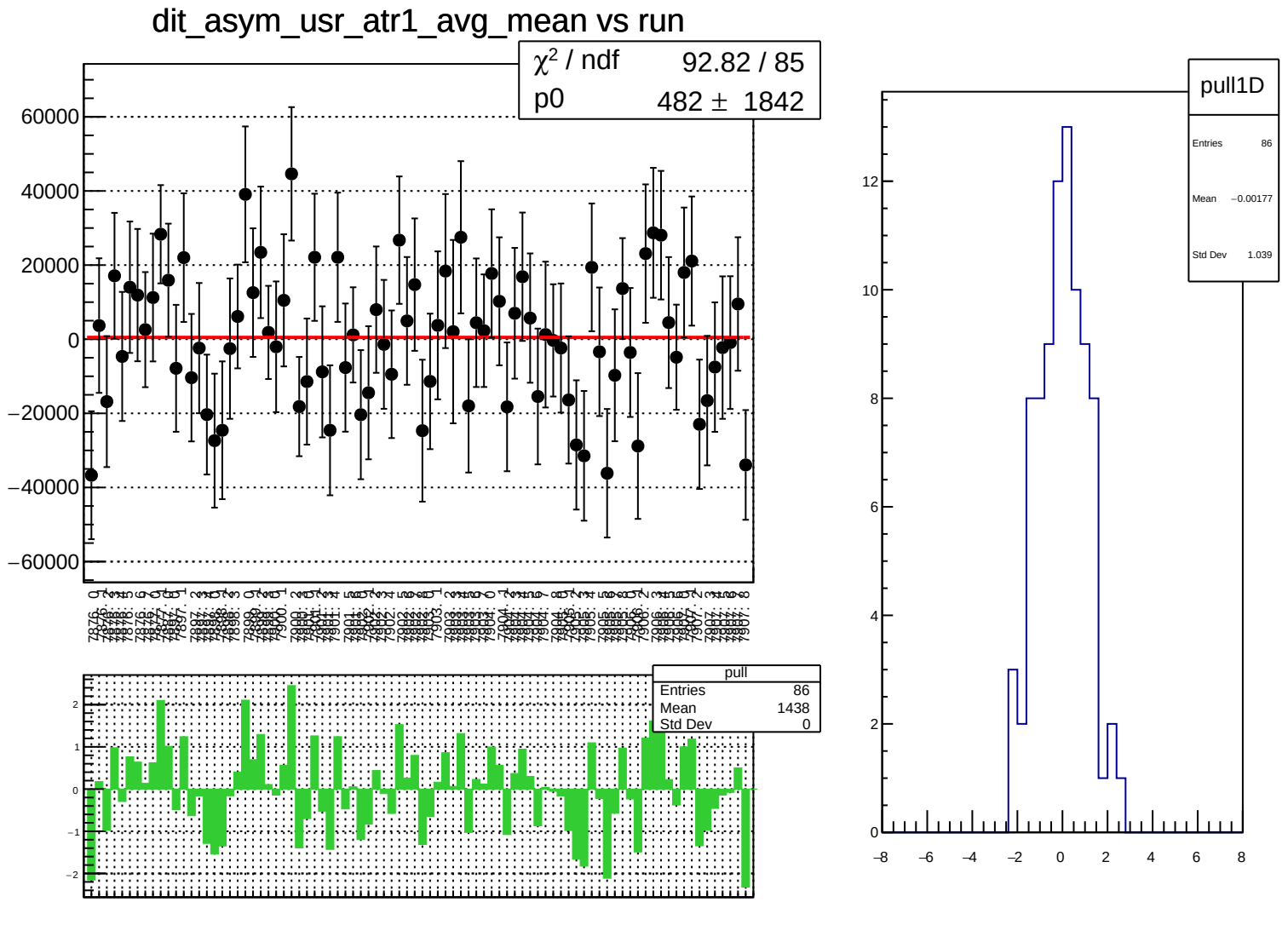

pull1D
Entries 86
Mean 0.003206
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

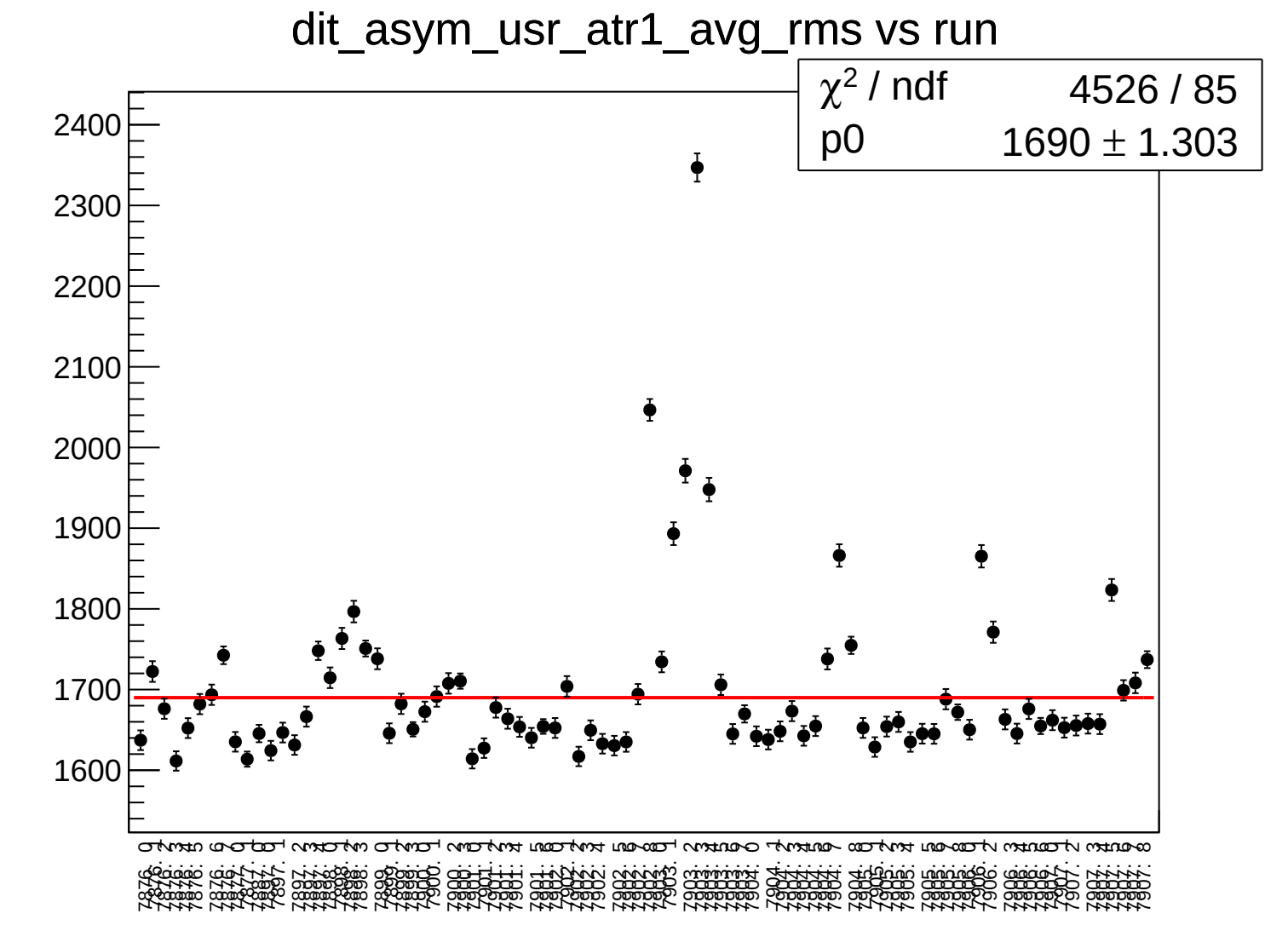

eigen_cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 666.4 / 85
p0 1650 ± 1.27
1800
1750
1700
1650
1600

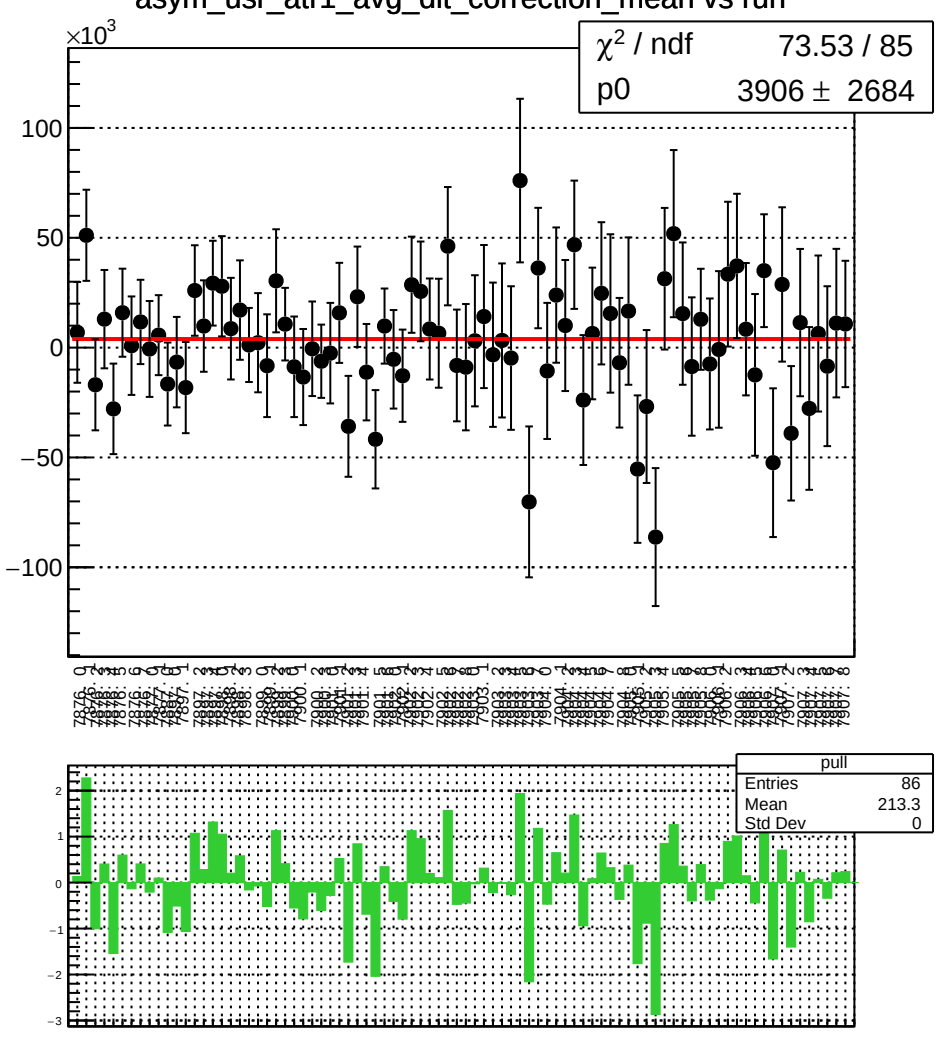

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.61 / 85
p0 3396 ± 2689
100
50
0
−50
−100
pull
Entries 86
Mean −16.12
Std Dev 0
2
1
0
−1
−2
−3

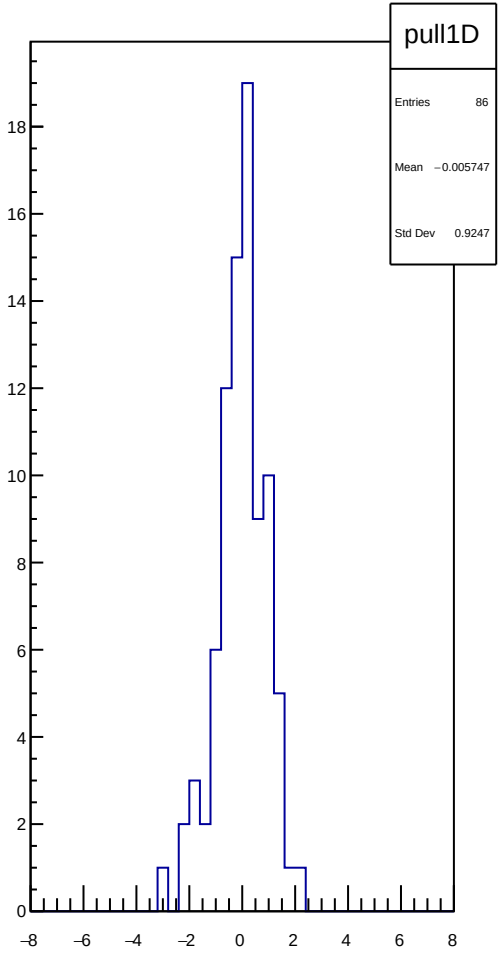

pull1D
Entries 86
Mean 0.01463
Std Dev 0.9187
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

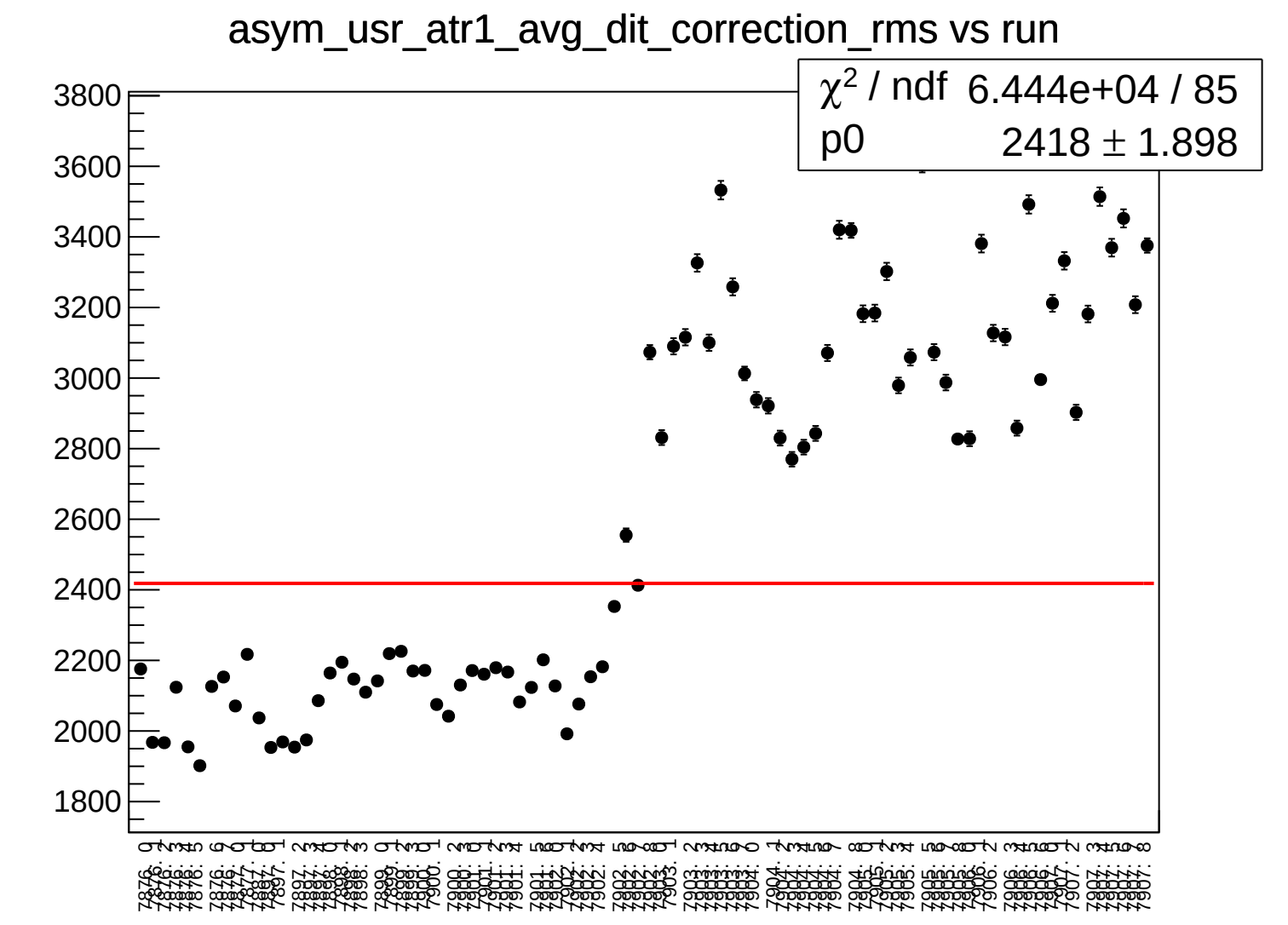

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.007e+05 / 85
p0 2395 ± 1.901
5000
4500
4000
3500
3000
2500
2000
1500

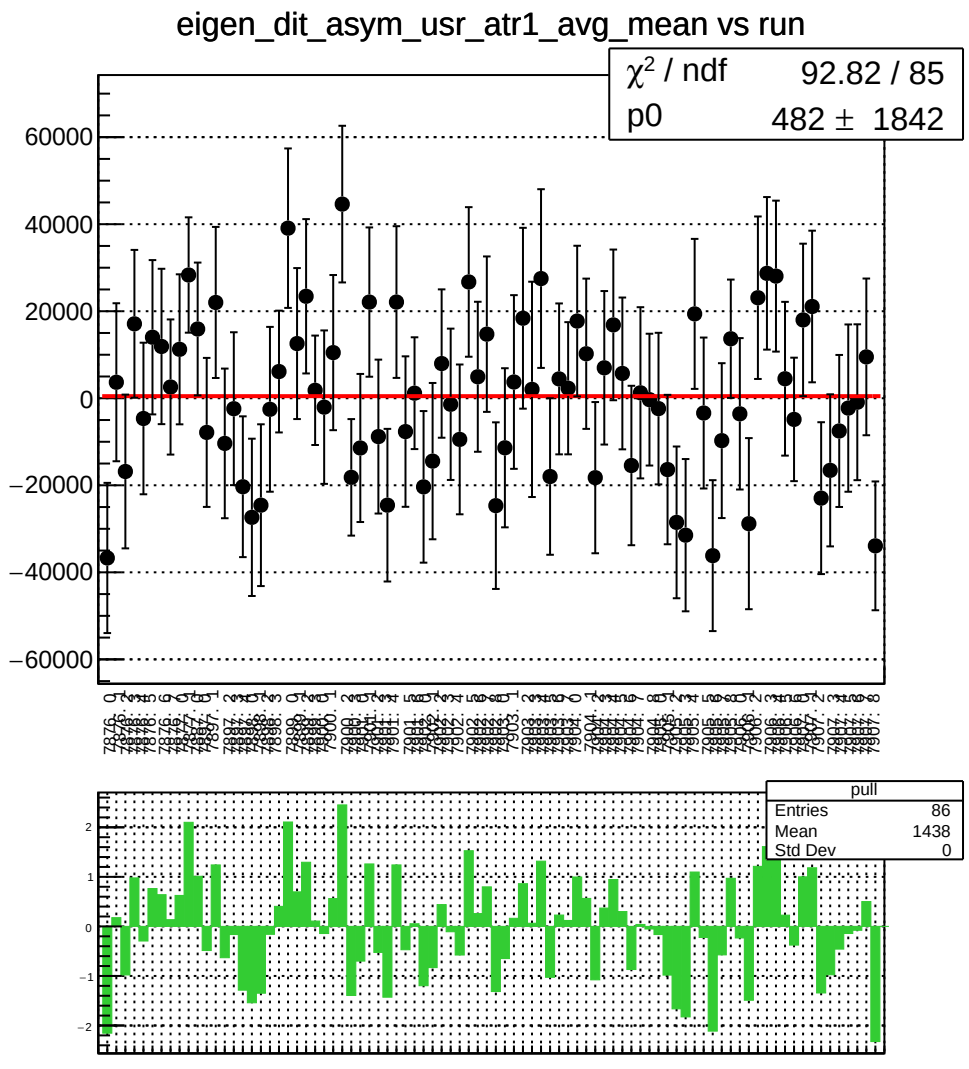

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.82 / 85
p0 482 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1438
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.00177
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

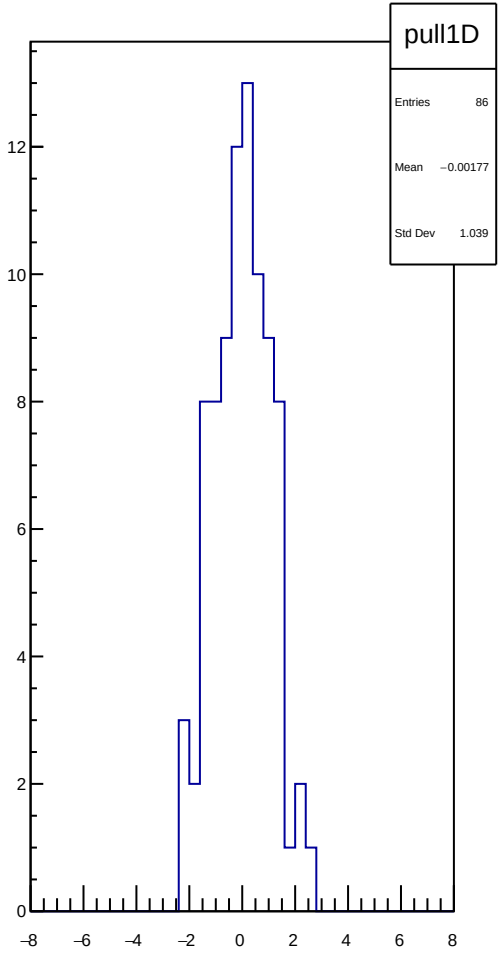

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 4526 / 85
p0 1690 ± 1.303
2400
2300
2200
2100
2000
1900
1800
1700
1600

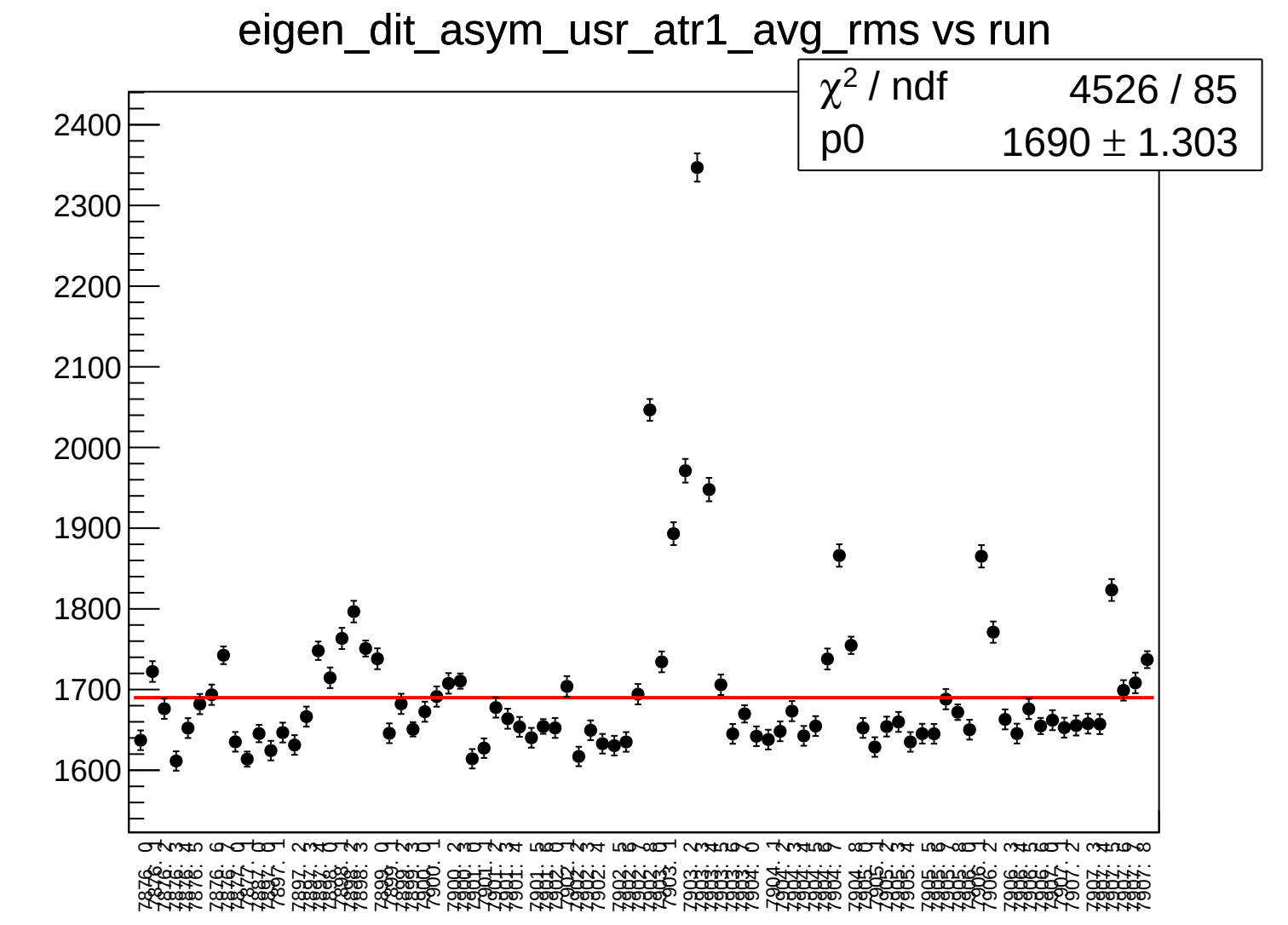

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.53 / 85
p0 3906 ± 2684
pull
Entries 86
Mean 213.3
Std Dev 0

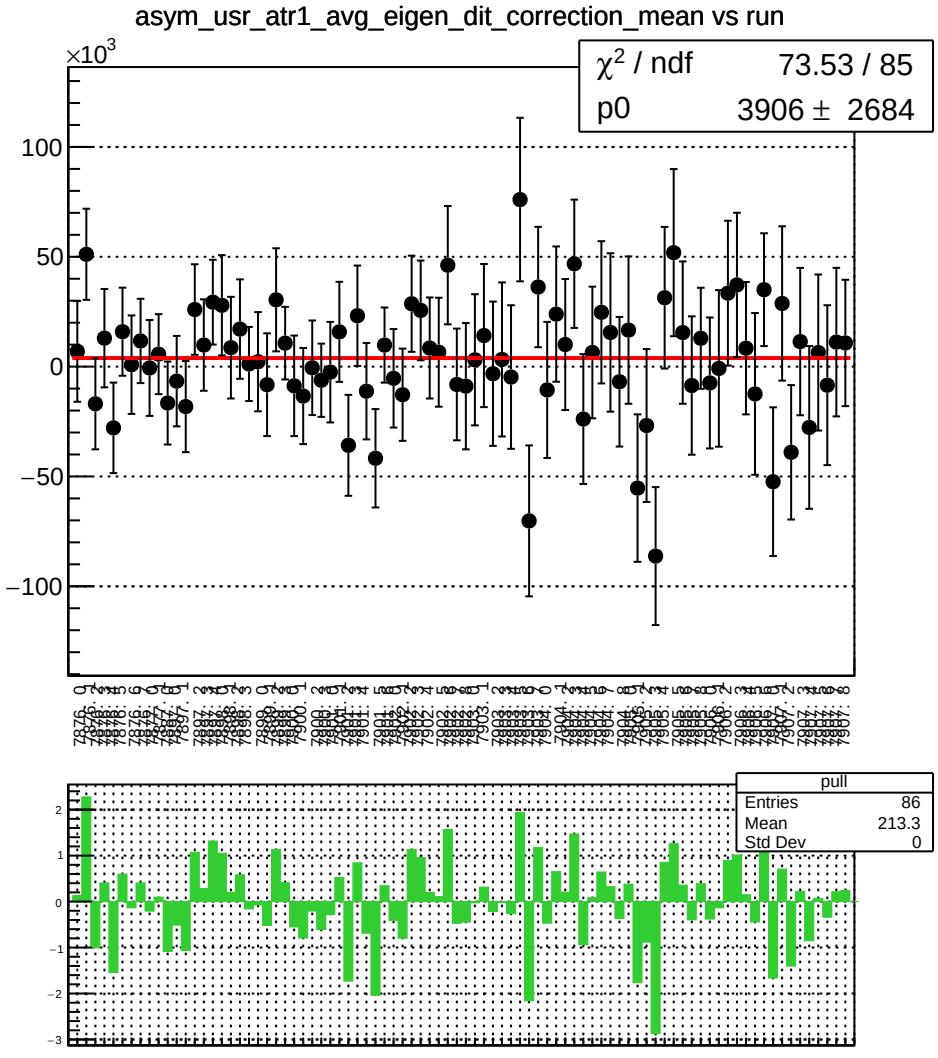

pull1D
Entries 86
Mean −0.005747
Std Dev 0.9247

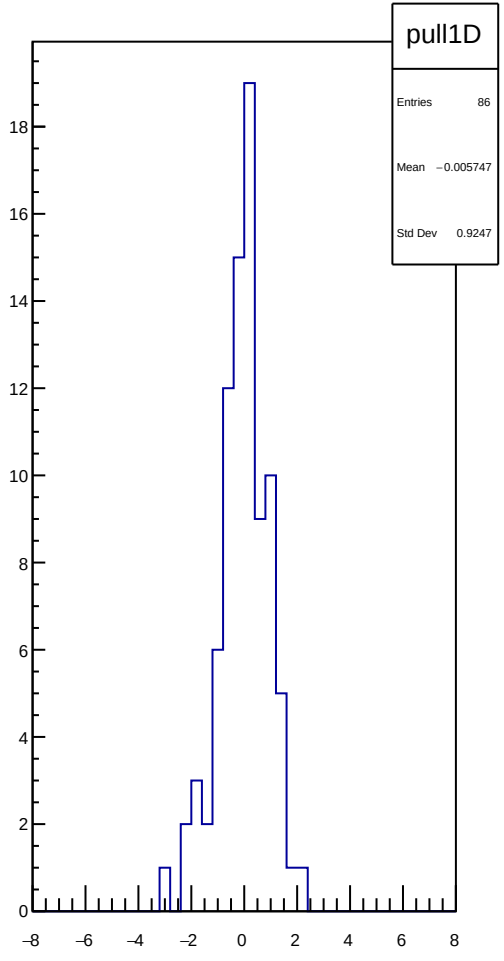

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 6.444e+04 / 85
p0 2418 ± 1.898
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

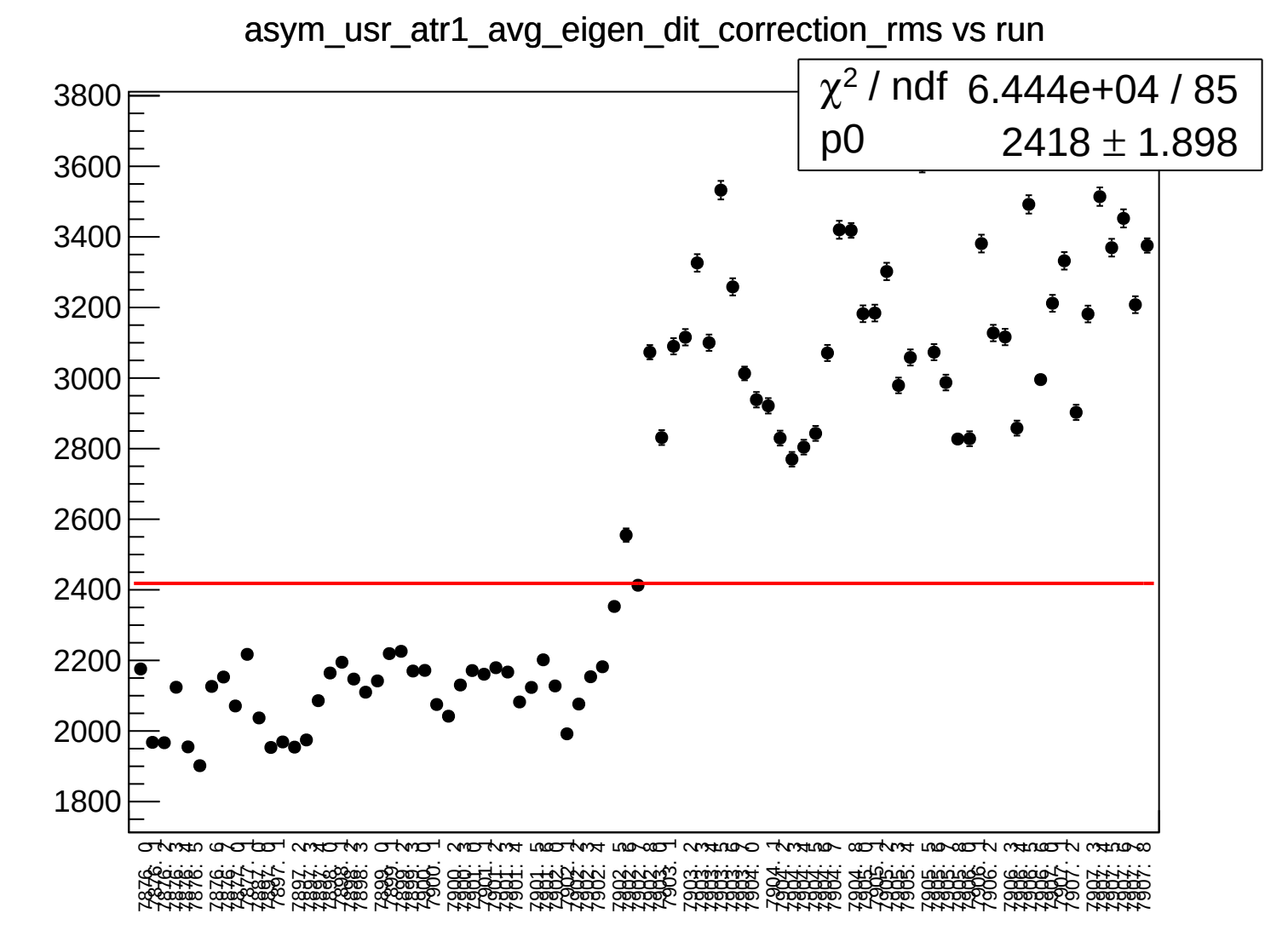

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.82 / 85
p0 482 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1438
Std Dev 0
2
1
0
−1
−2

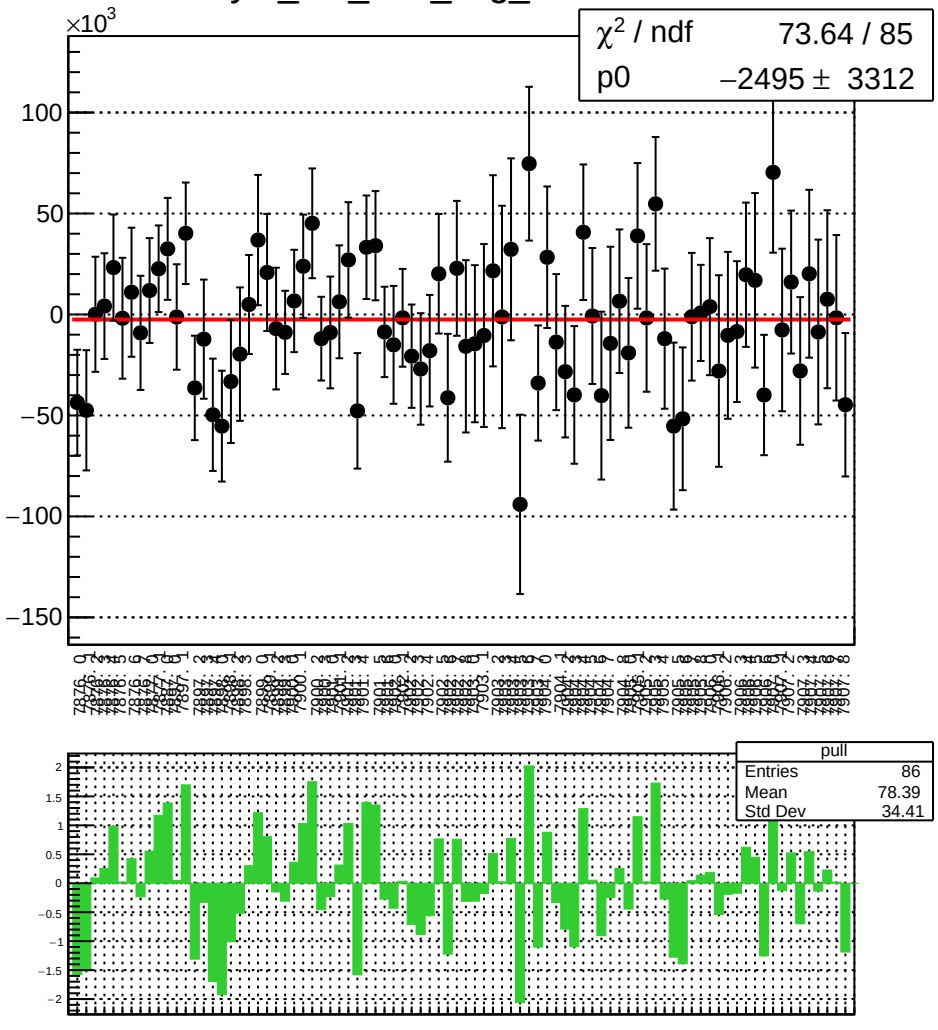

pull1D
Entries 86
Mean −0.00177
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

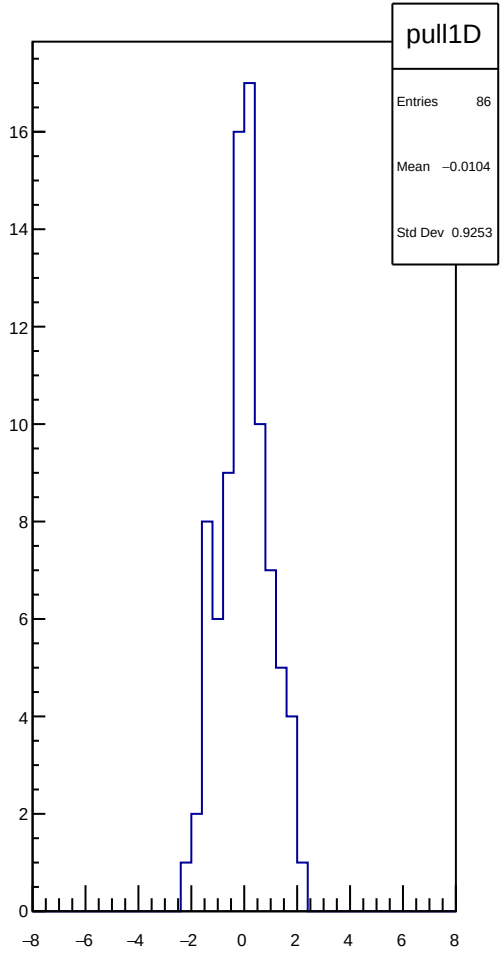

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 4526 / 85
p0 1690 ± 1.303
2400
2300
2200
2100
2000
1900
1800
1700
1600

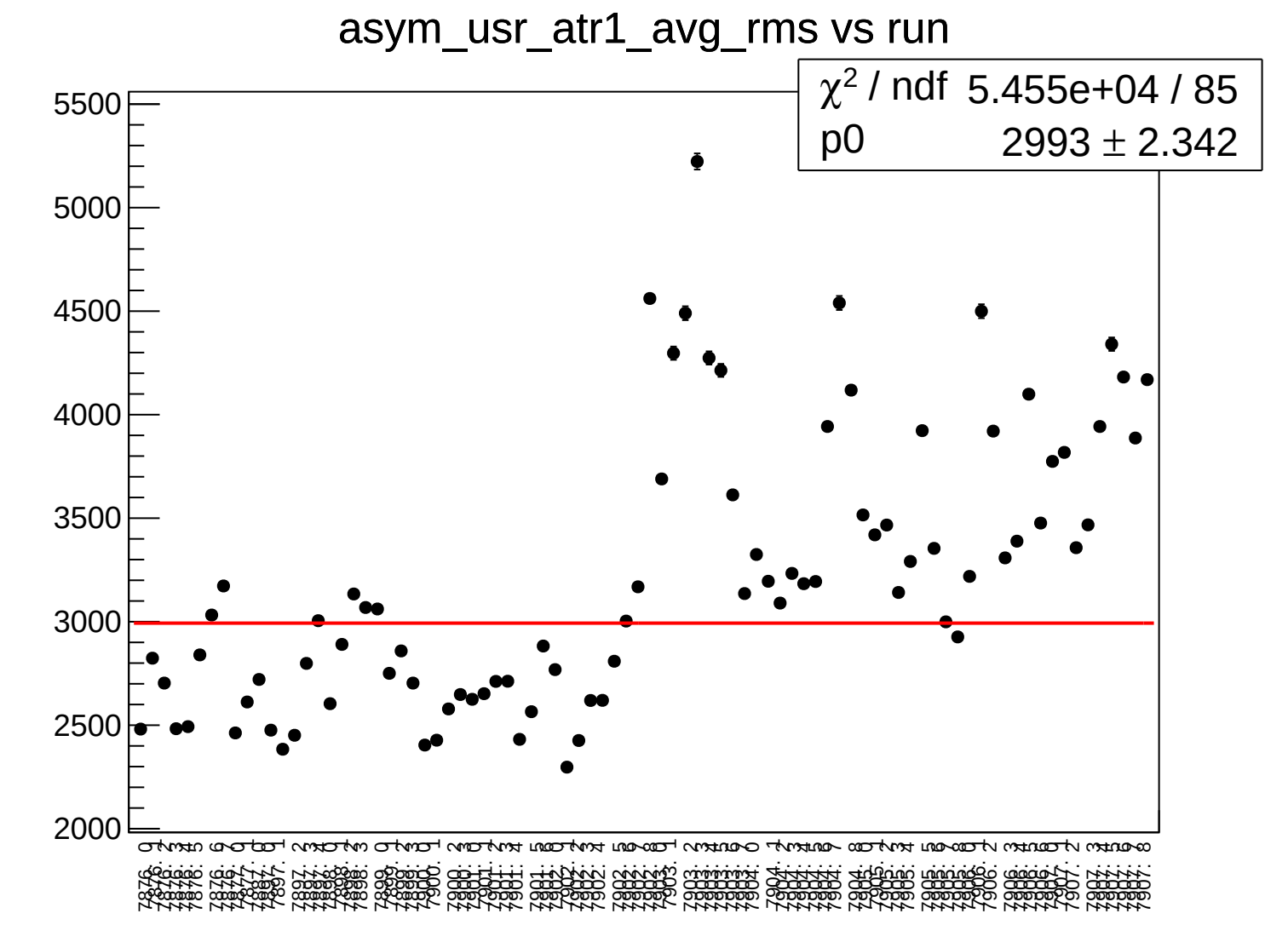

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 73.53 / 85
p0 3906 ± 2684
100
50
0
−50
−100
pull
Entries 86
Mean 213.3
Std Dev 0
2
1
0
−1
−2
−3

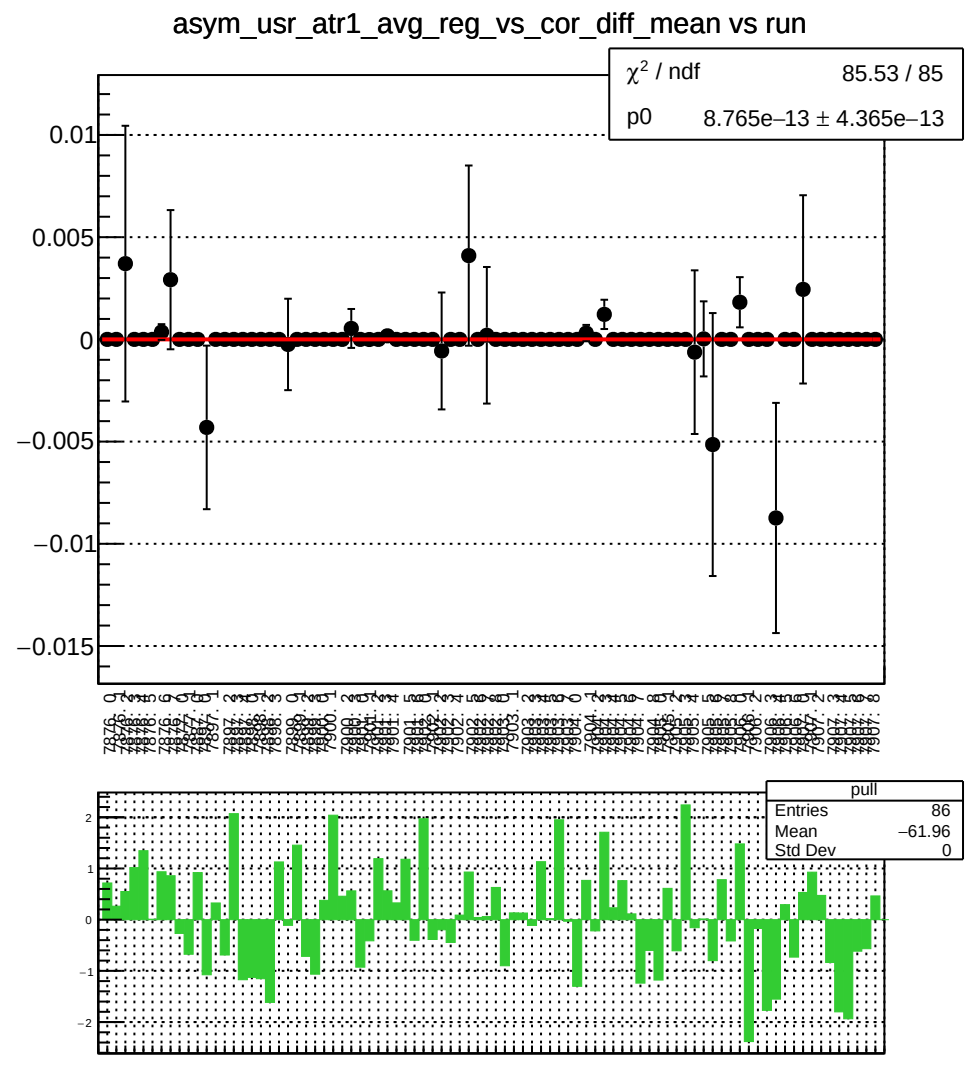

pull1D
Entries 86
Mean −0.005747
Std Dev 0.9247
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

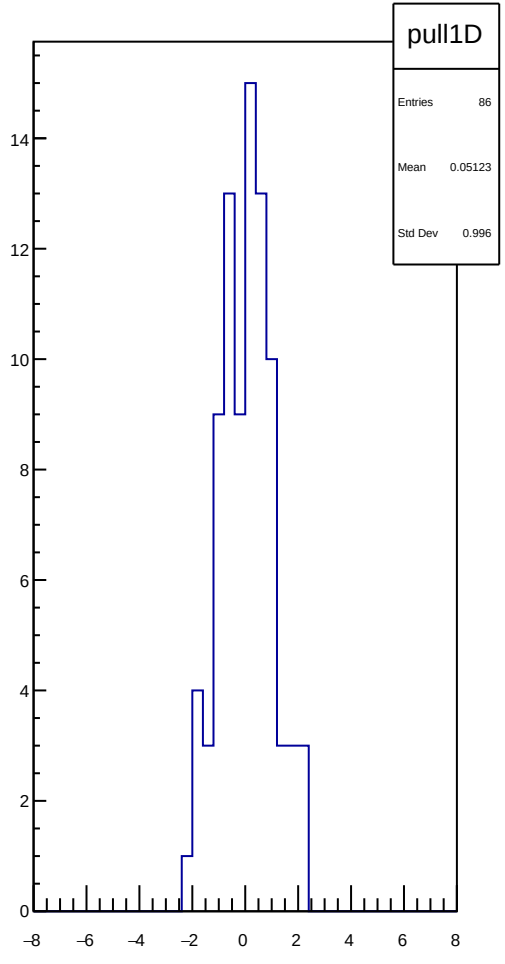

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.444e+04 / 85
p0 2418 ± 1.898
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

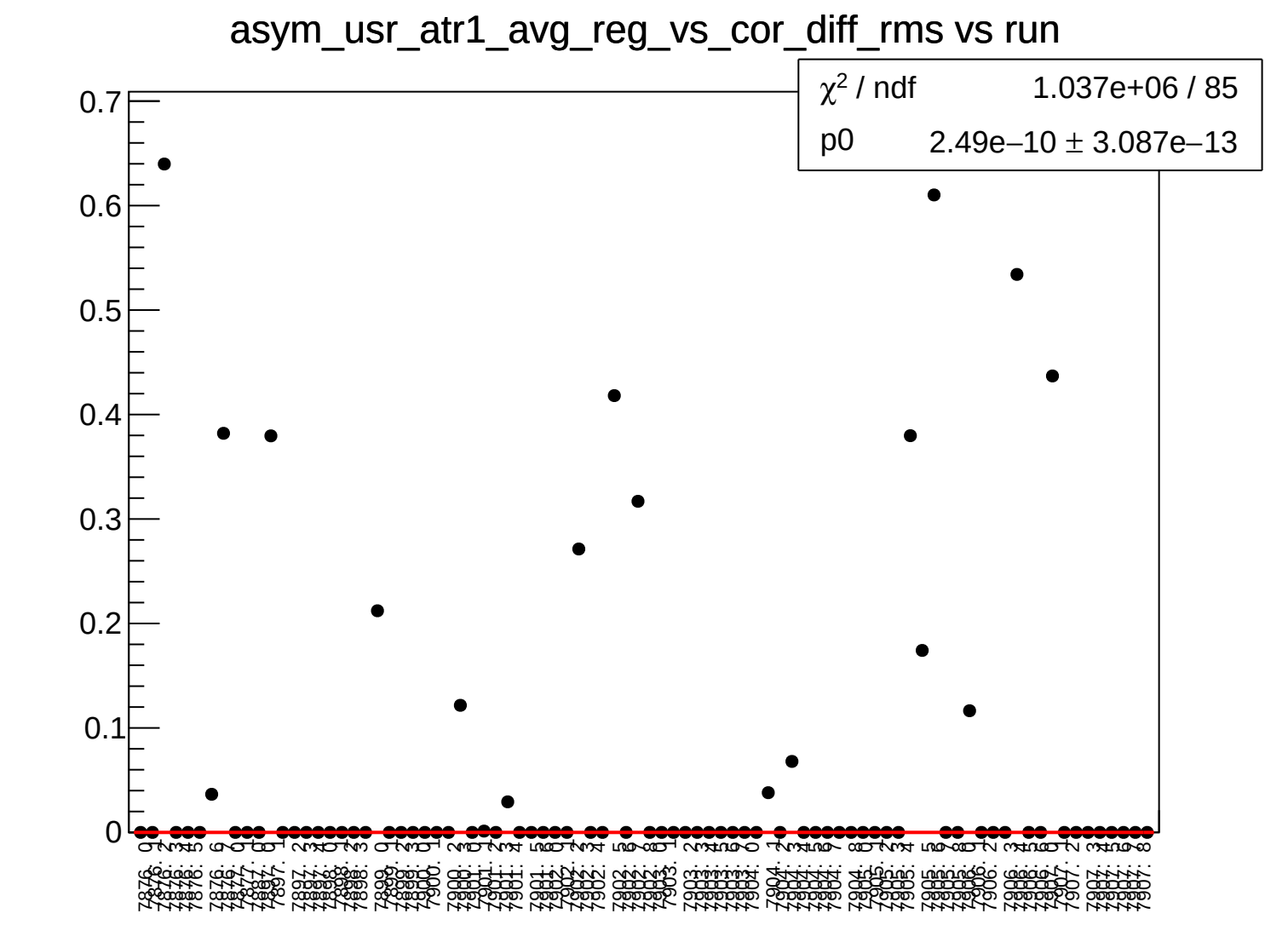

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 73.64 / 85
p0 −2495 ± 3312
100
50
0
−50
−100
−150
pull
Entries 86
Mean 78.39
Std Dev 34.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

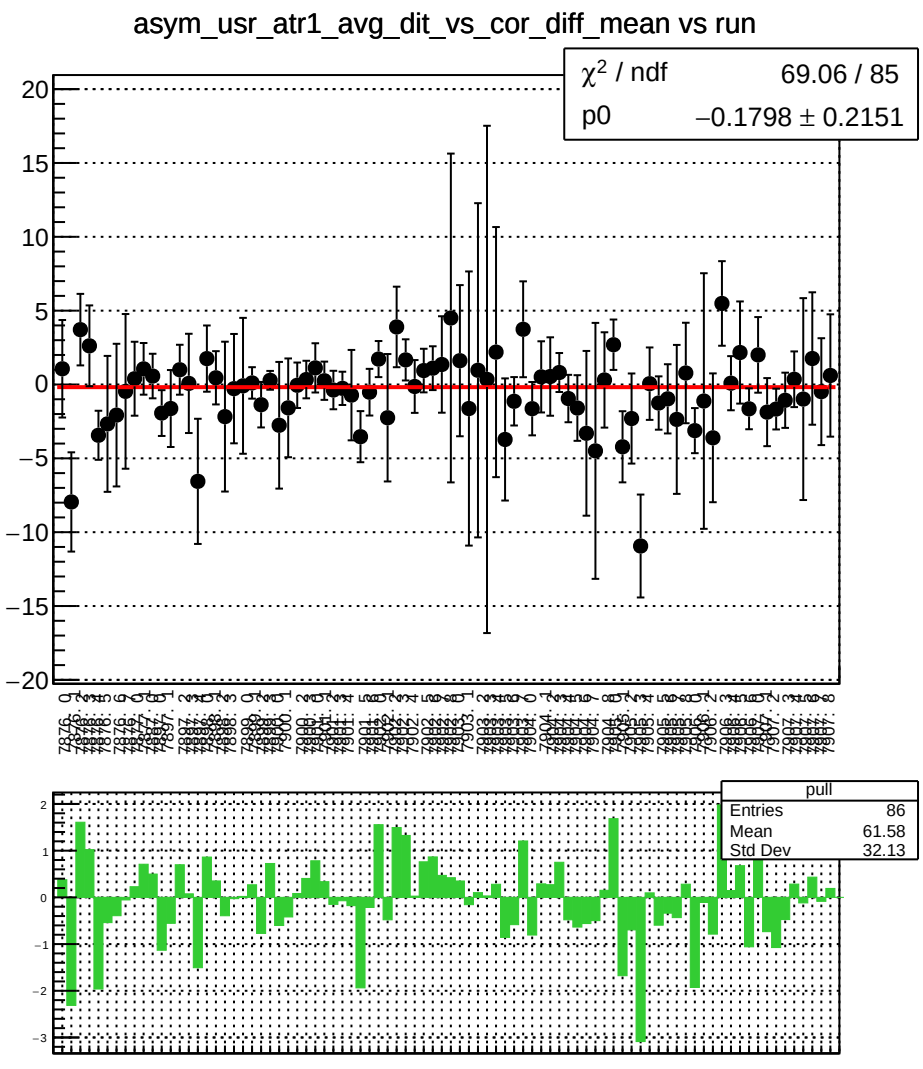

pull1D
Entries 86
Mean −0.0104
Std Dev 0.9253
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

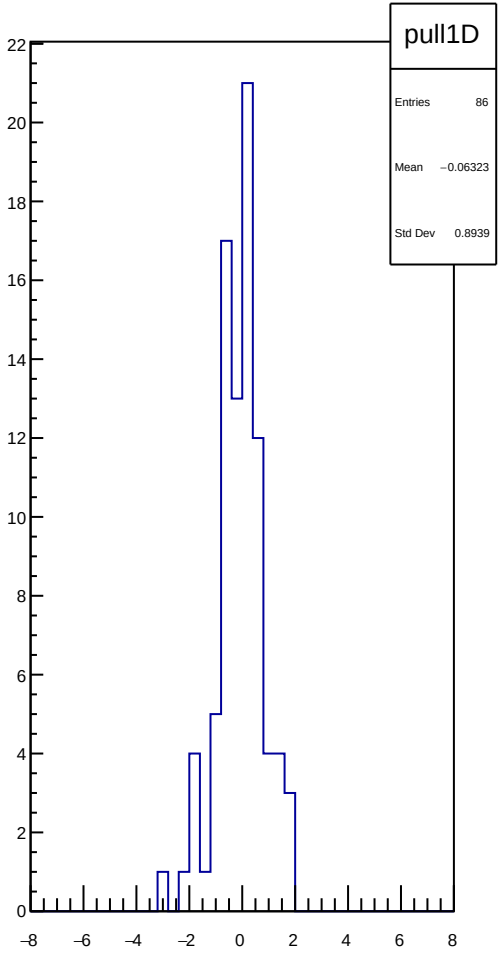

asym_usr_atr1_avg_rms vs run
χ^2 / ndf 5.455e+04 / 85
p0 2993 ± 2.342
5500
5000
4500
4000
3500
3000
2500
2000

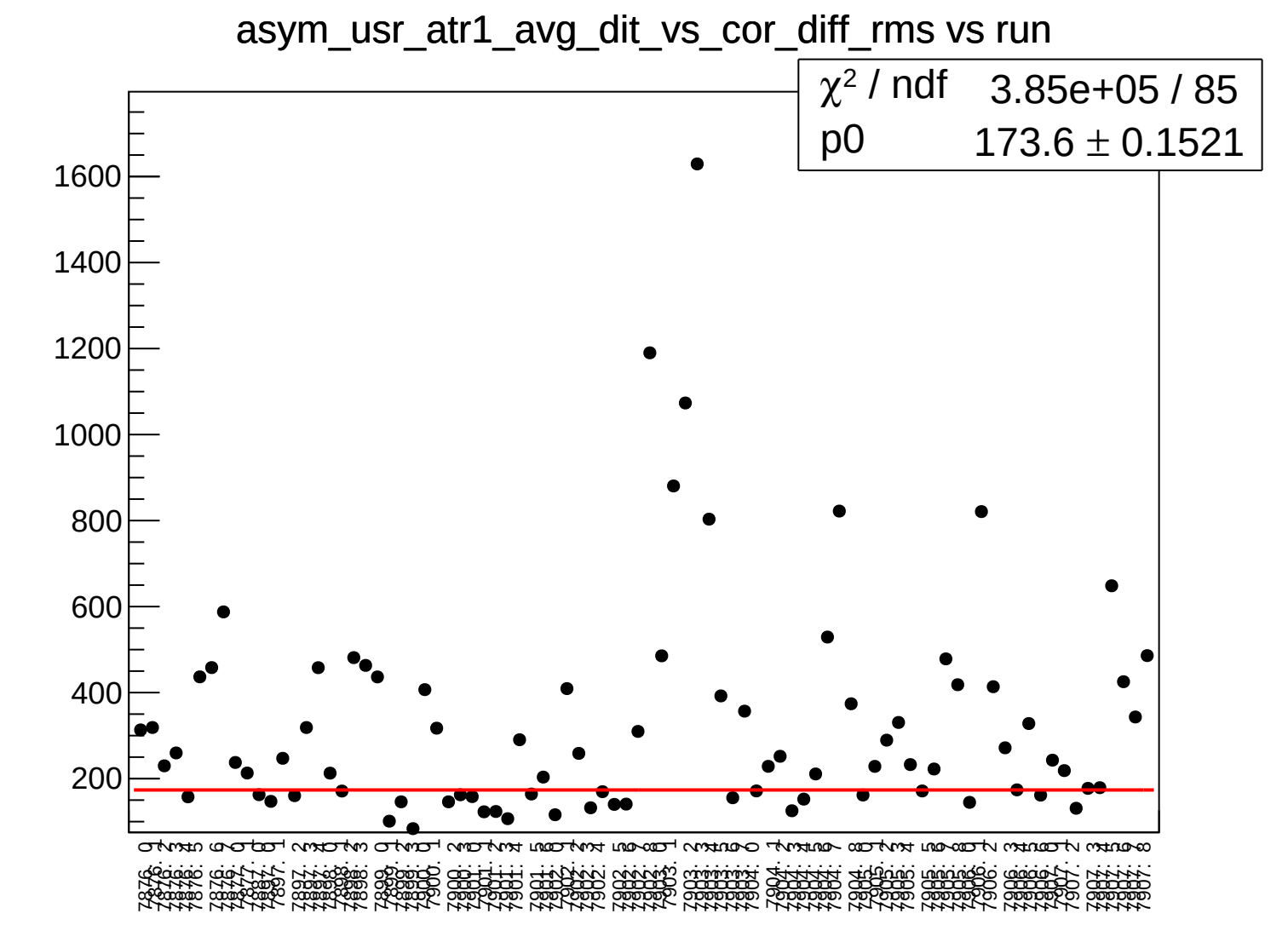

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.53 / 85
p0 8.765e−13 ± 4.365e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean −61.96
Std Dev 0
2
1
0
−1
−2

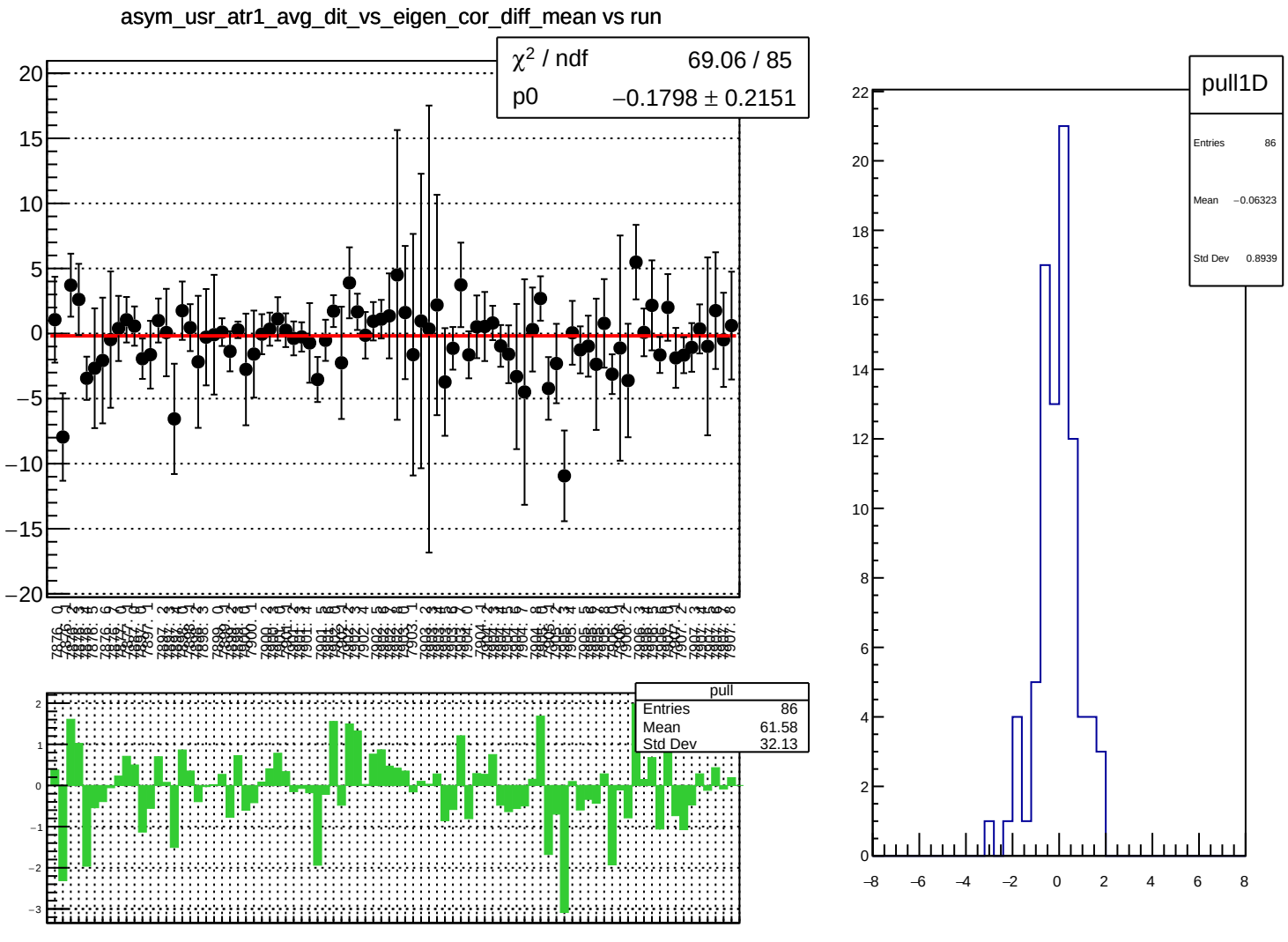

pull1D
Entries 86
Mean 0.05123
Std Dev 0.996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

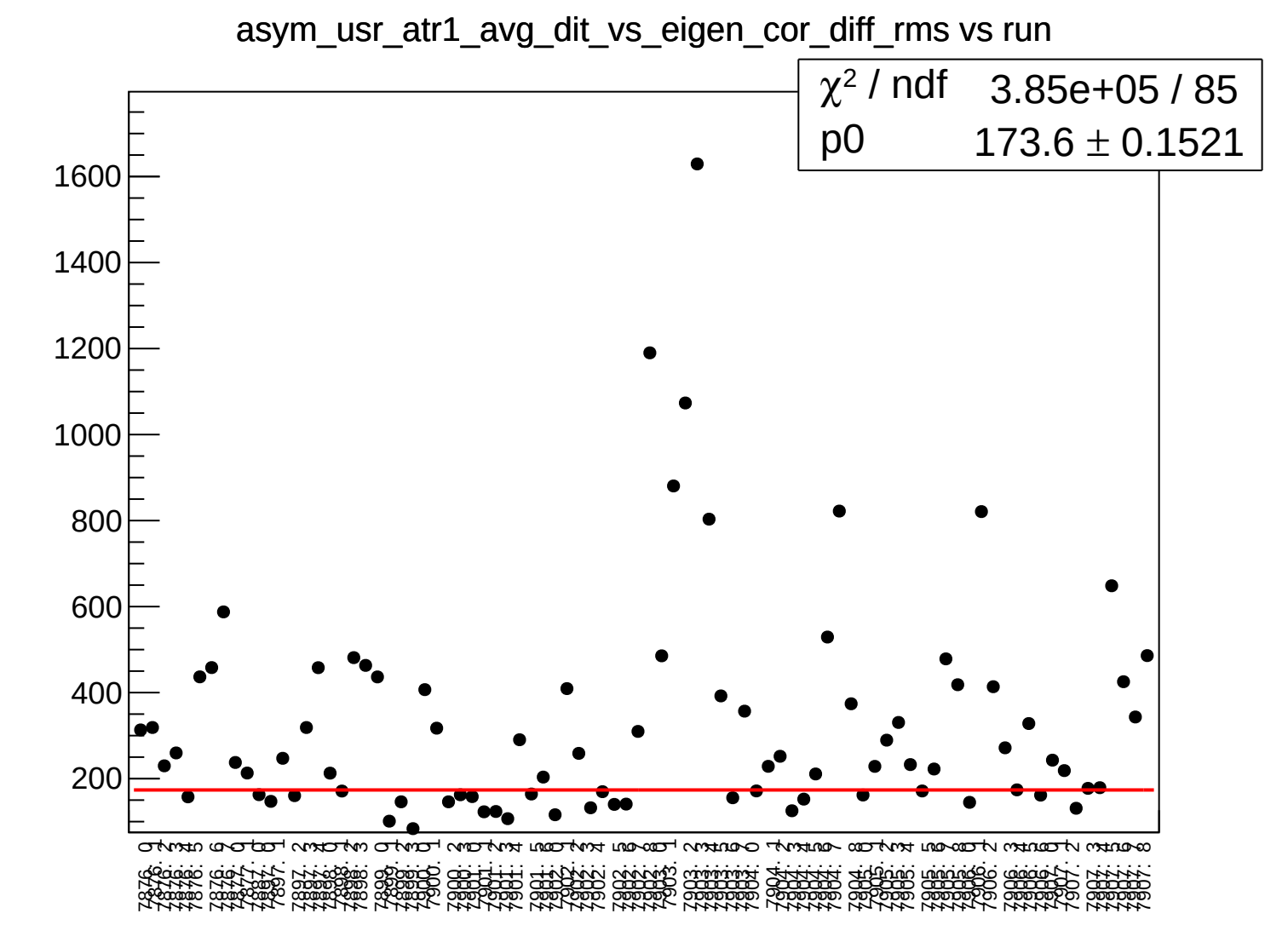

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.037e+06 / 85
p0 2.49e−10 ± 3.087e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

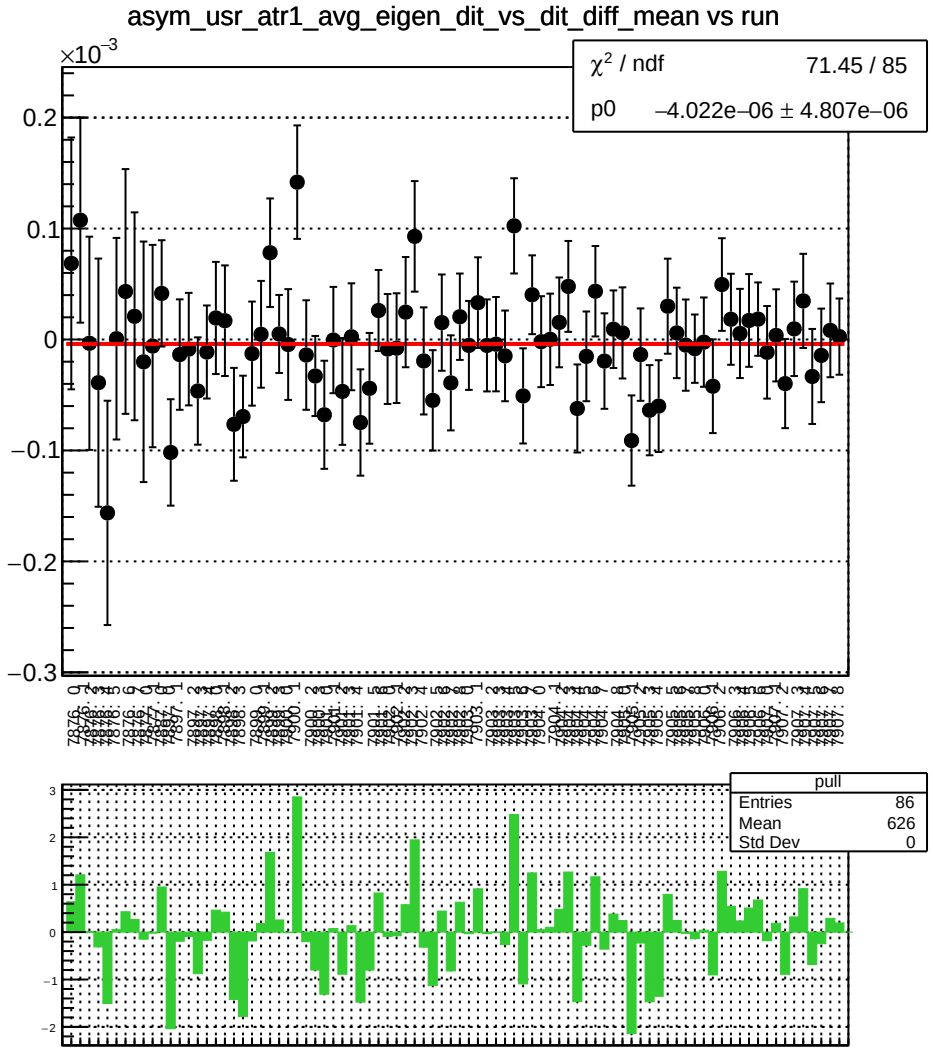

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.06 / 85
p0 −0.1798 ± 0.2151
pull
Entries 86
Mean 61.58
Std Dev 32.13

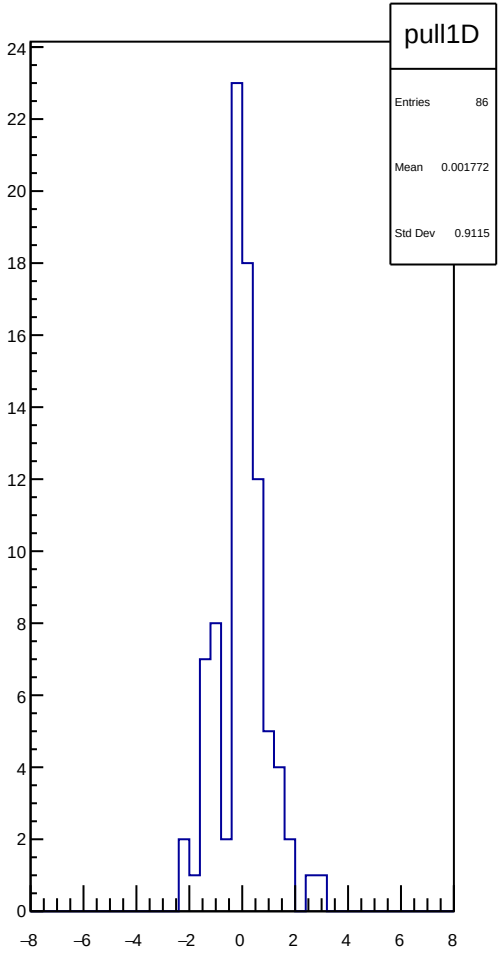

pull1D
Entries 86
Mean −0.06323
Std Dev 0.8939

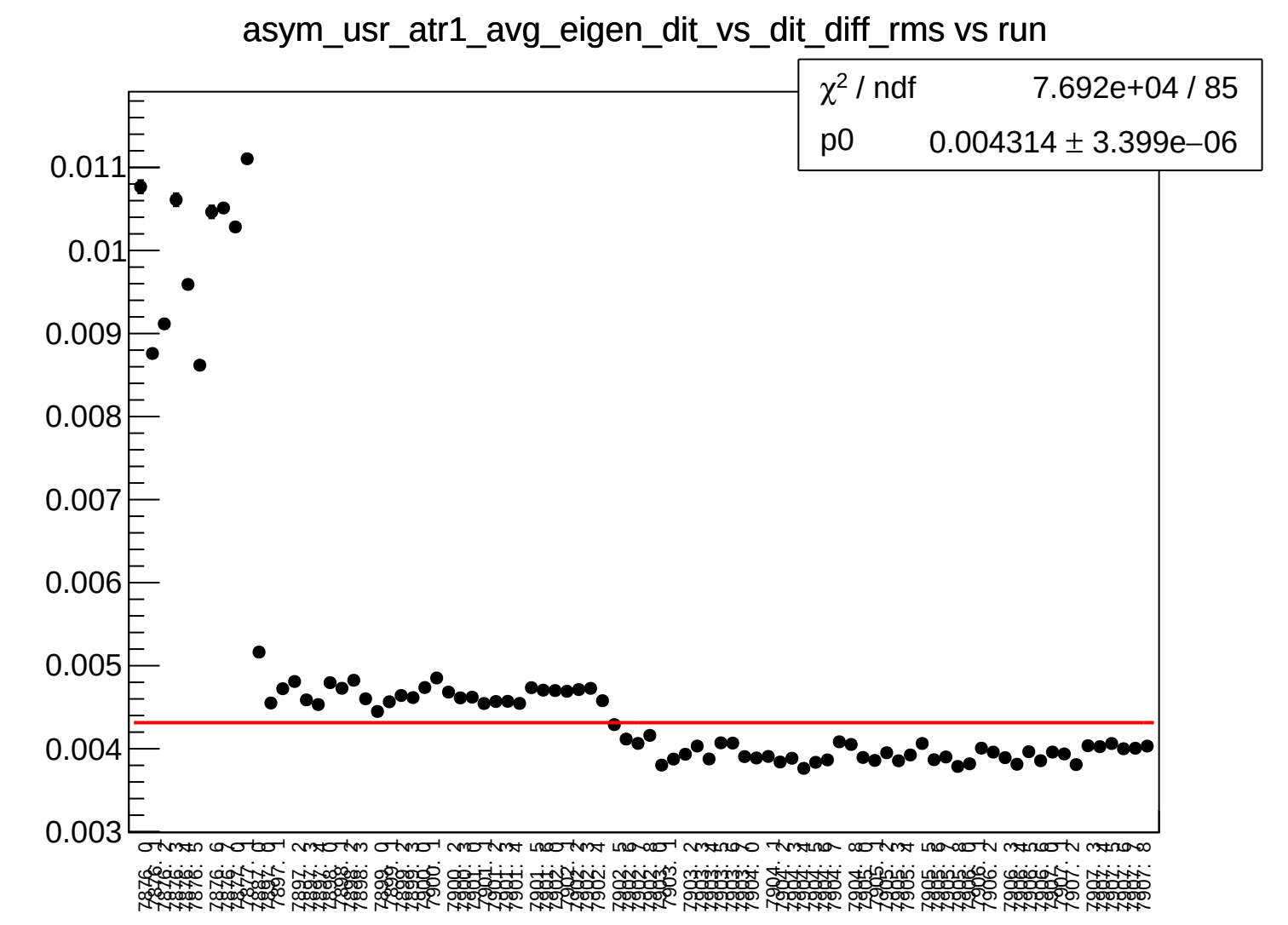

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.85e+05 / 85
p0 173.6 ± 0.1521
1600
1400
1200
1000
800
600
400
200

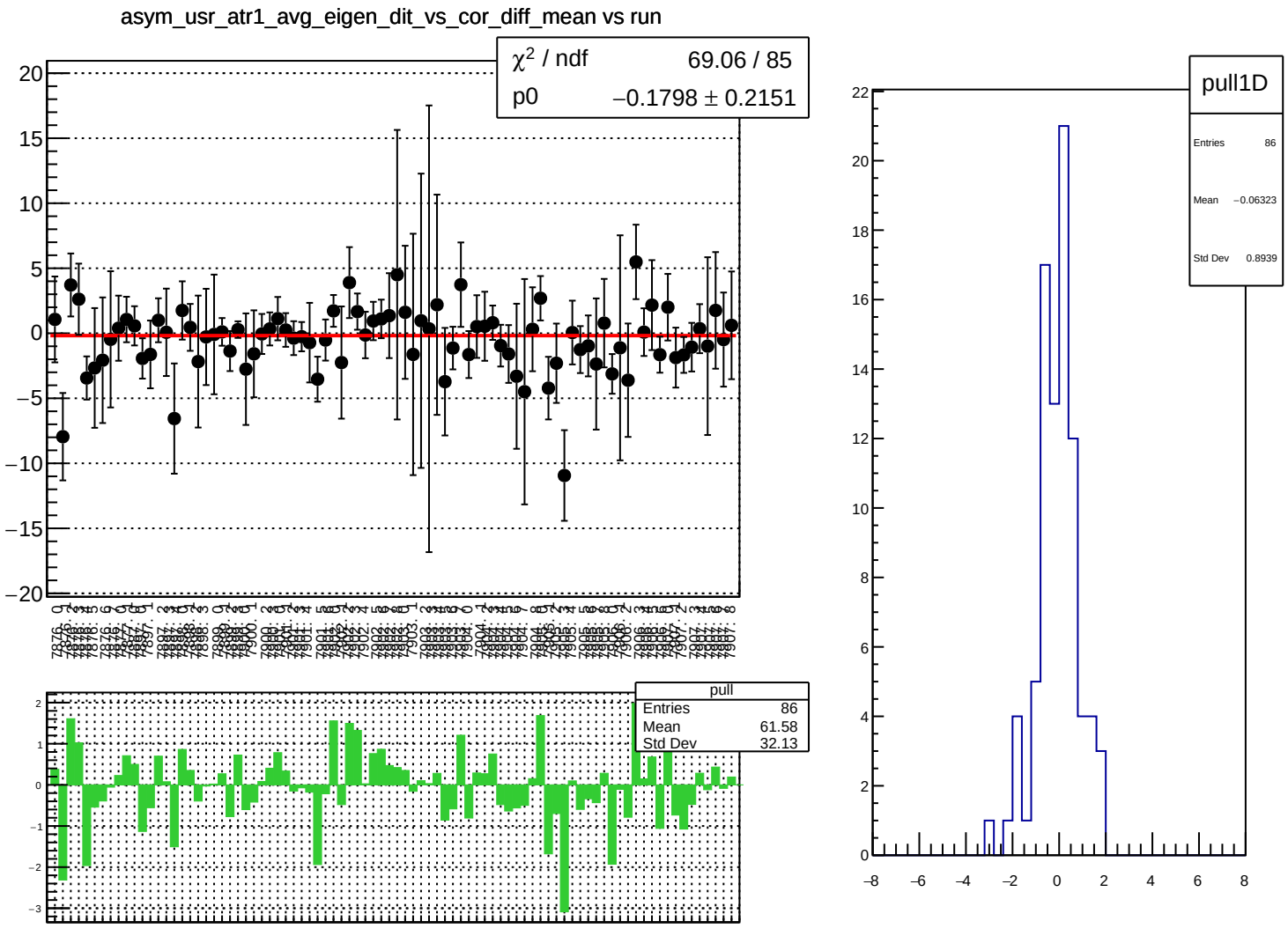

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.06 / 85
p0 −0.1798 ± 0.2151
pull
Entries 86
Mean 61.58
Std Dev 32.13
pull1D
Entries 86
Mean −0.06323
Std Dev 0.8939

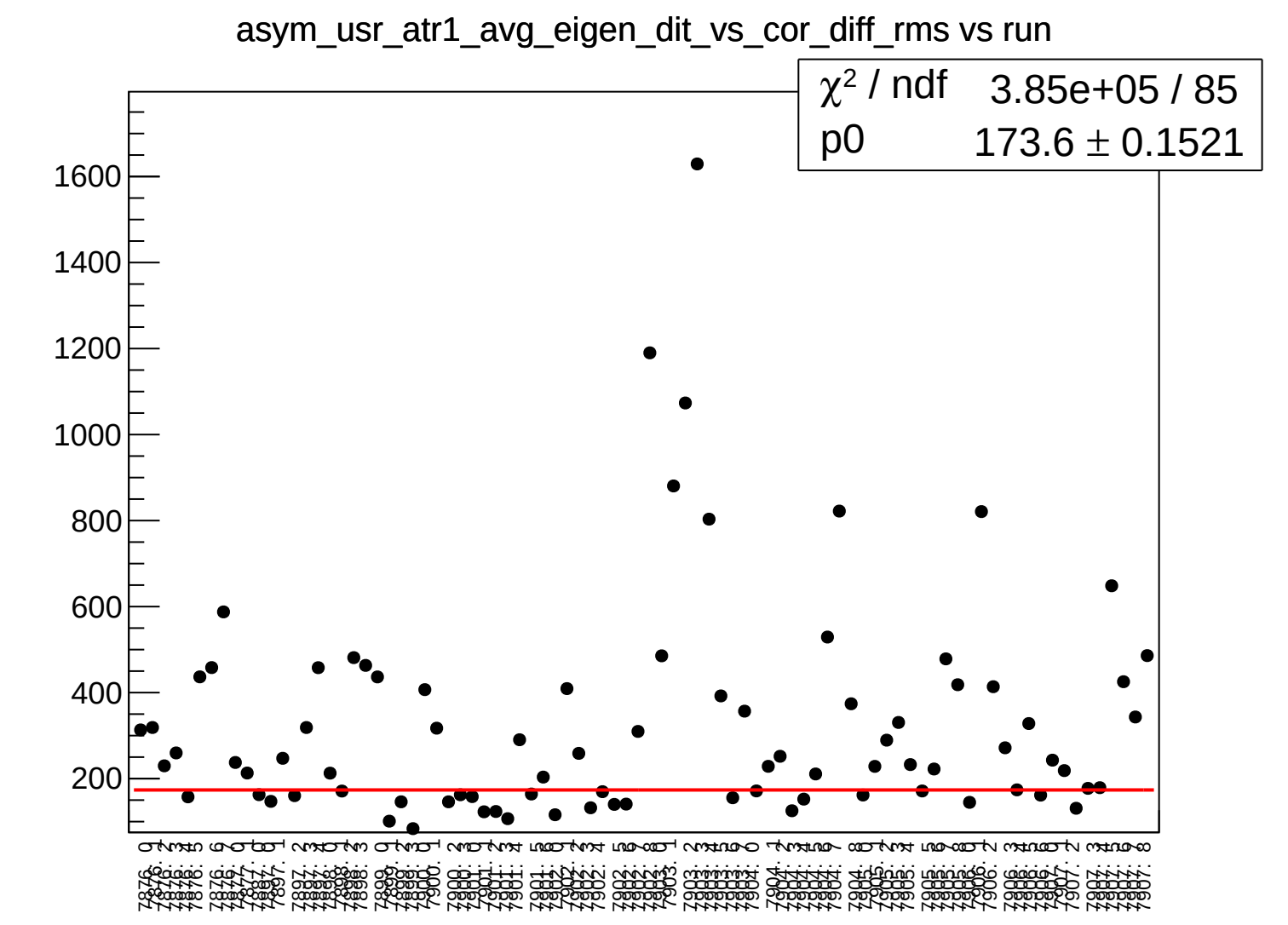

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.85e+05 / 85
p0 173.6 ± 0.1521
1600
1400
1200
1000
800
600
400
200

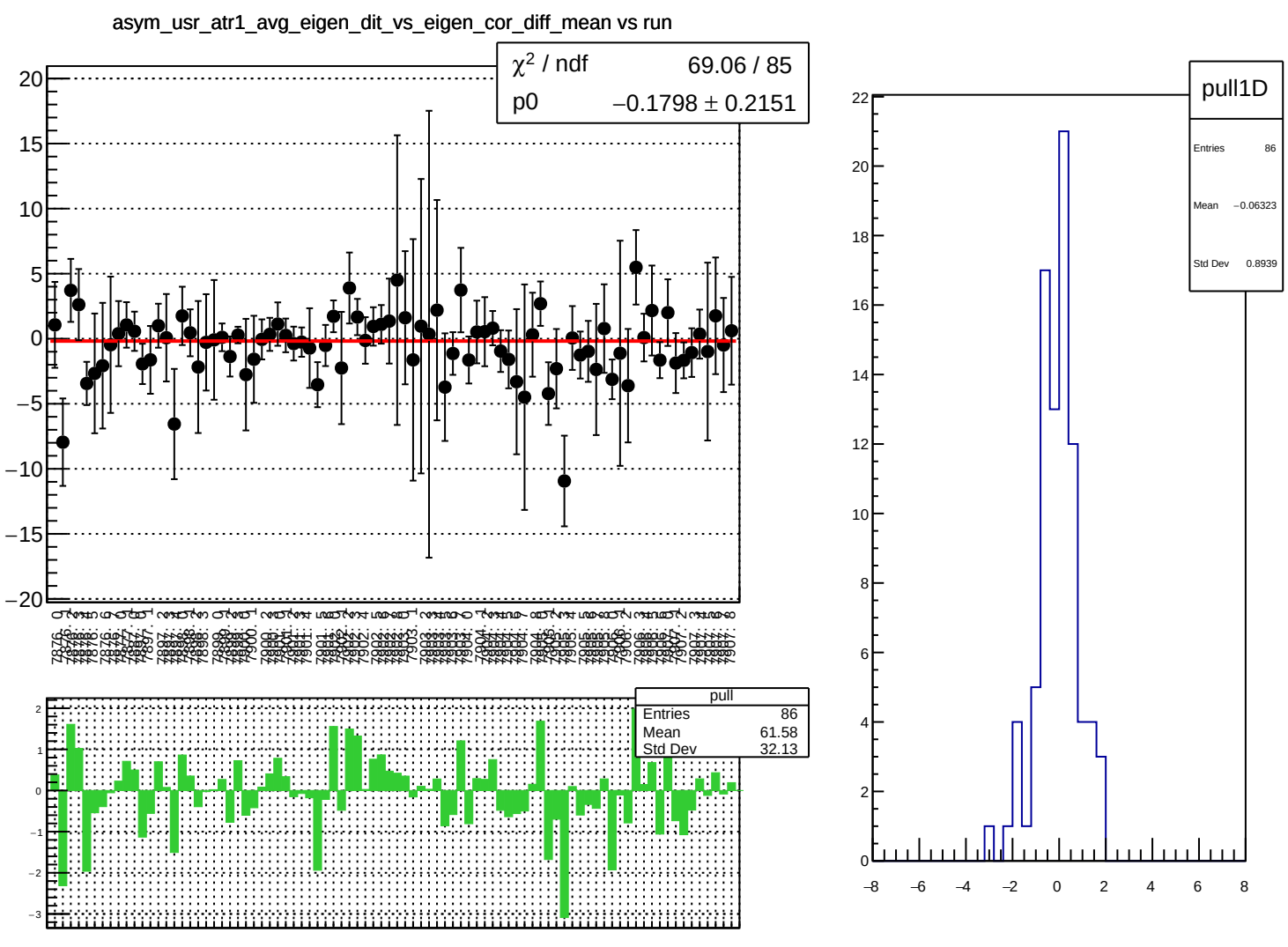

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.45 / 85
p0 −4.022e−06 ± 4.807e−06
pull
Entries 86
Mean 626
Std Dev 0

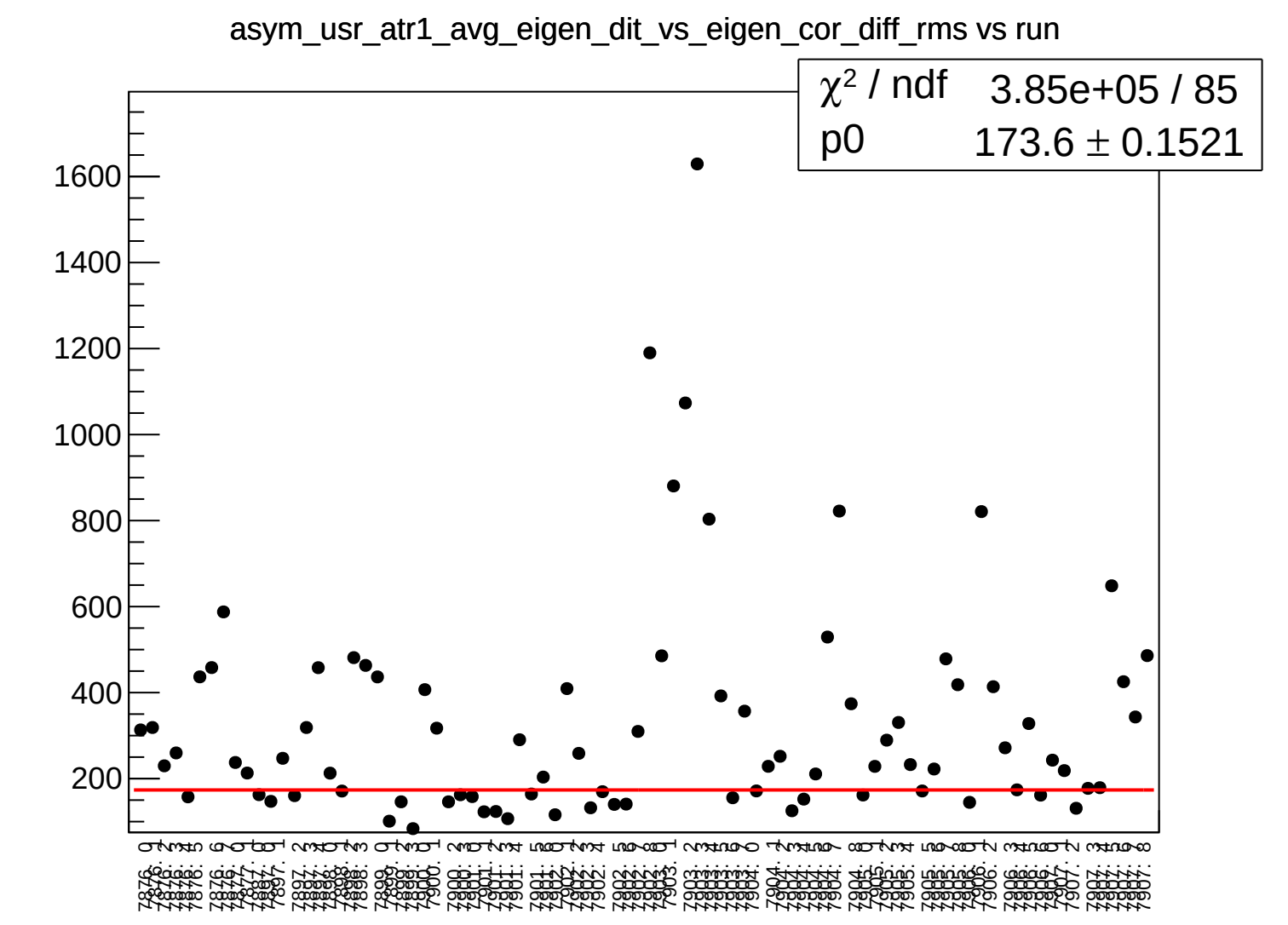

pull1D
Entries 86
Mean 0.001772
Std Dev 0.9115

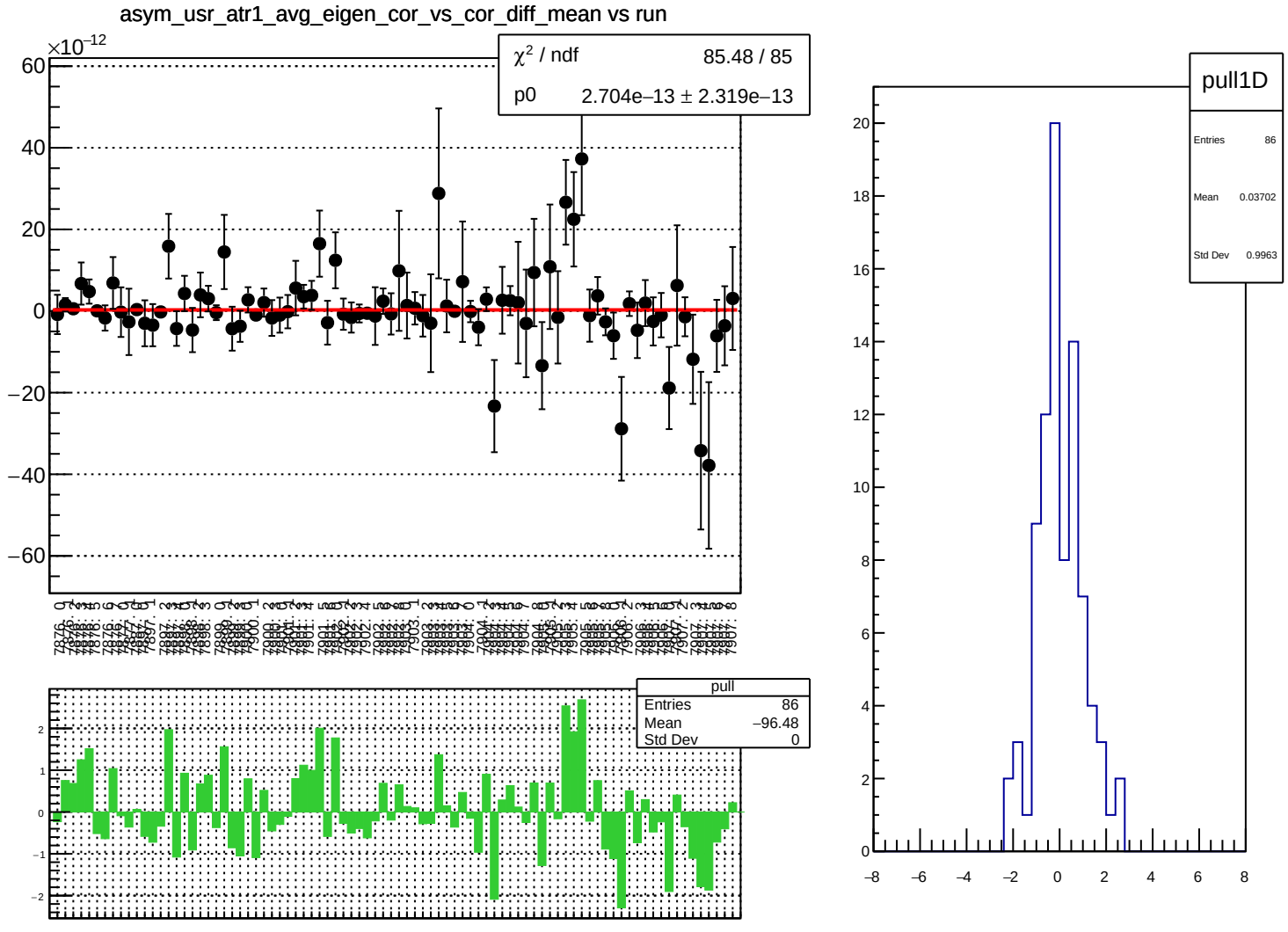

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.692e+04 / 85
p0 0.004314 ± 3.399e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

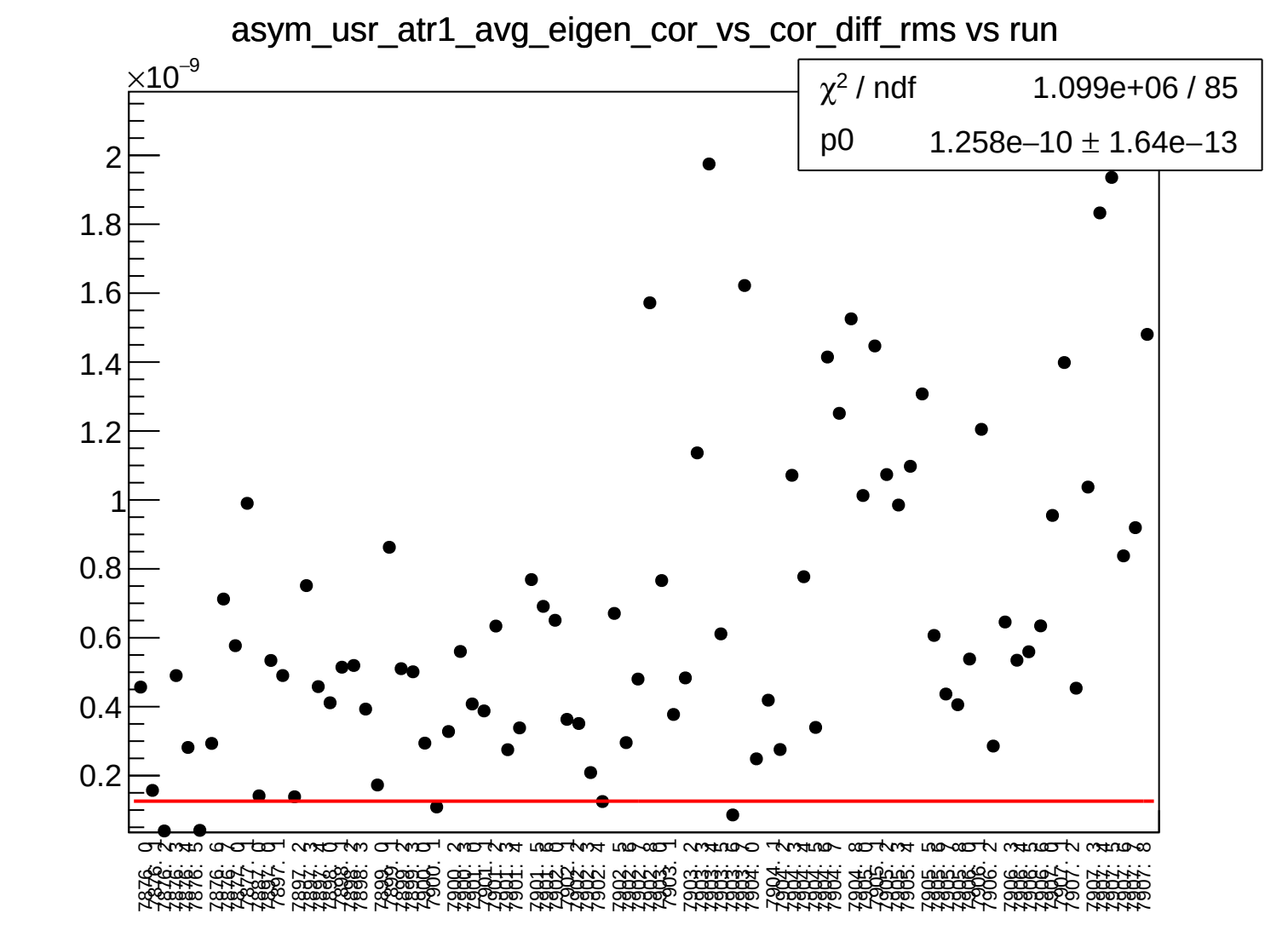

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.06 / 85
p0 −0.1798 ± 0.2151
pull
Entries 86
Mean 61.58
Std Dev 32.13
pull1D
Entries 86
Mean −0.06323
Std Dev 0.8939

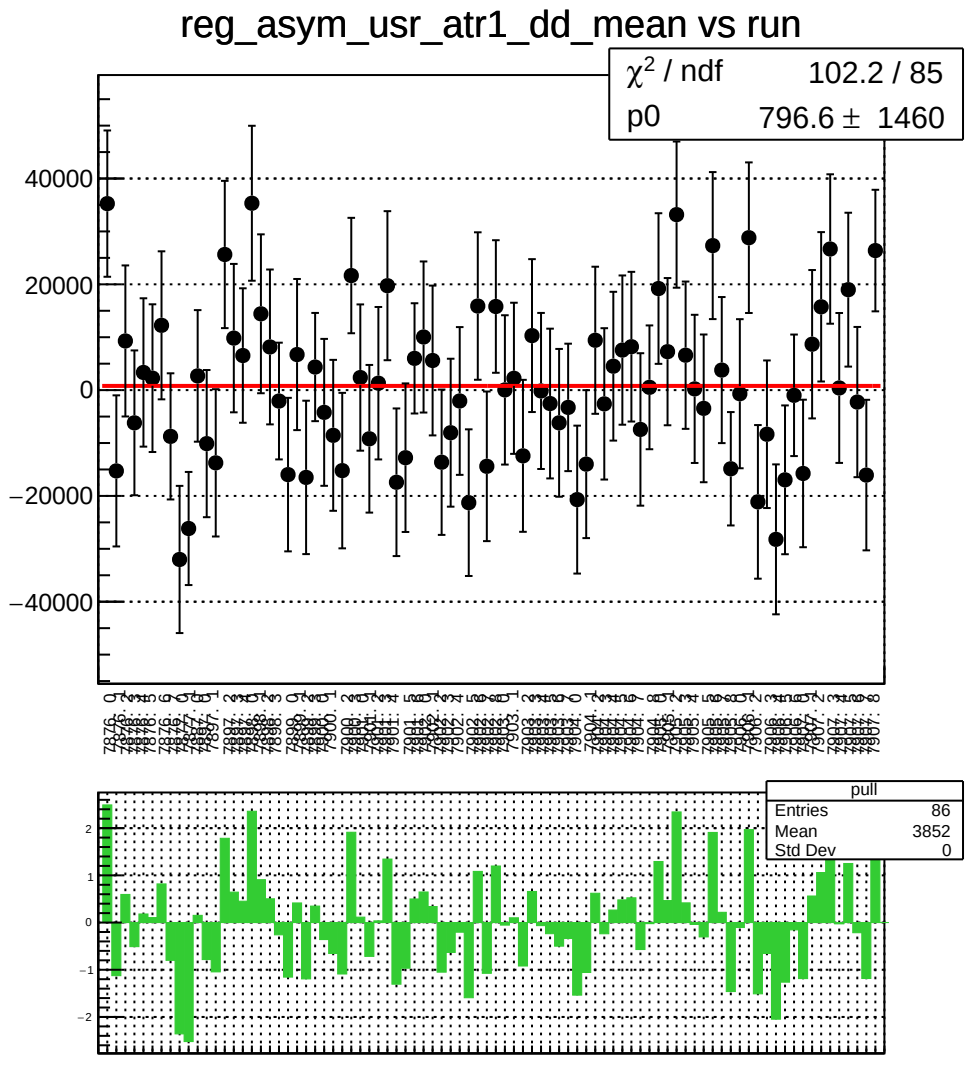

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.85e+05 / 85
p0 173.6 ± 0.1521
1600
1400
1200
1000
800
600
400
200

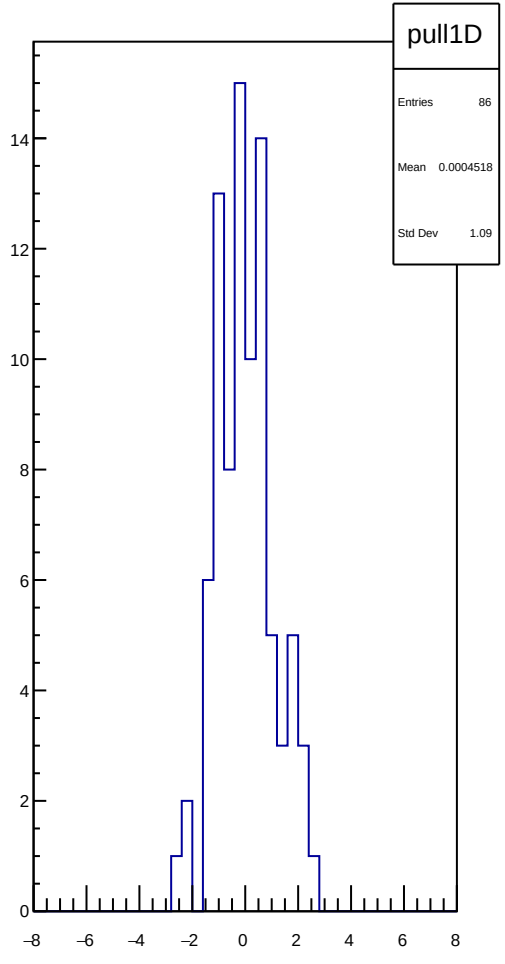

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.06 / 85
p0 −0.1798 ± 0.2151
pull
Entries 86
Mean 61.58
Std Dev 32.13
pull1D
Entries 86
Mean −0.06323
Std Dev 0.8939

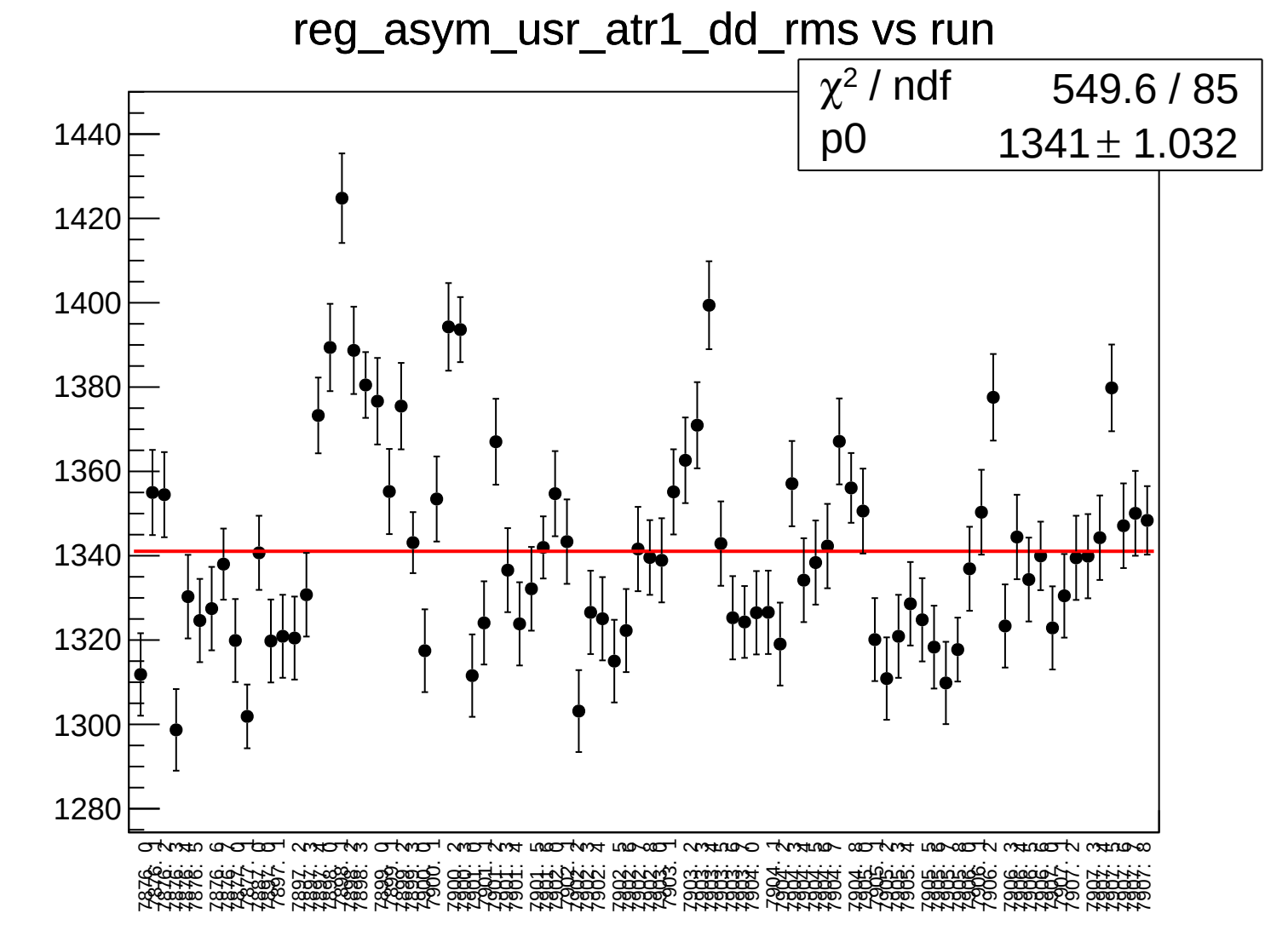

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.85e+05 / 85
p0 173.6 ± 0.1521
1600
1400
1200
1000
800
600
400
200

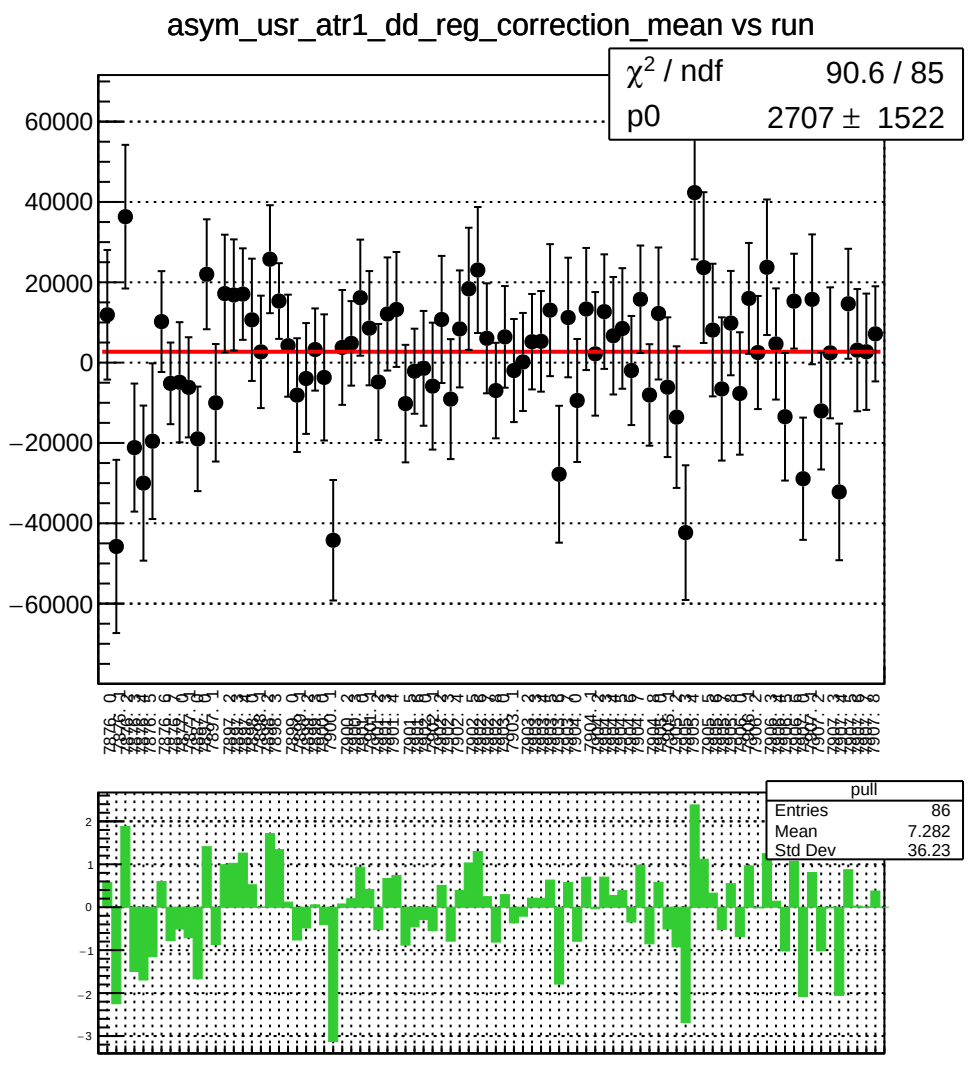

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.48 / 85
p0 2.704e−13 ± 2.319e−13
pull
Entries 86
Mean −96.48
Std Dev 0
pull1D
Entries 86
Mean 0.03702
Std Dev 0.9963

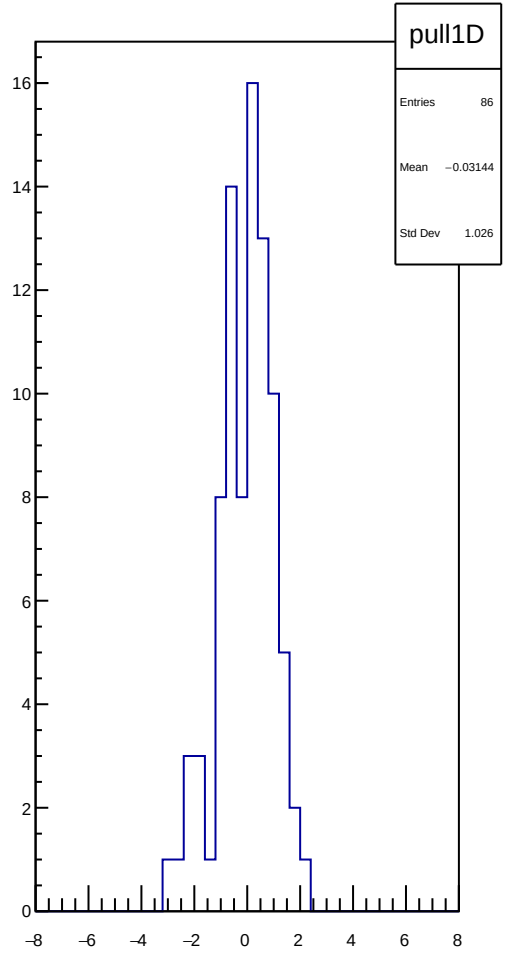

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.099e+06 / 85
p0 1.258e−10 ± 1.64e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

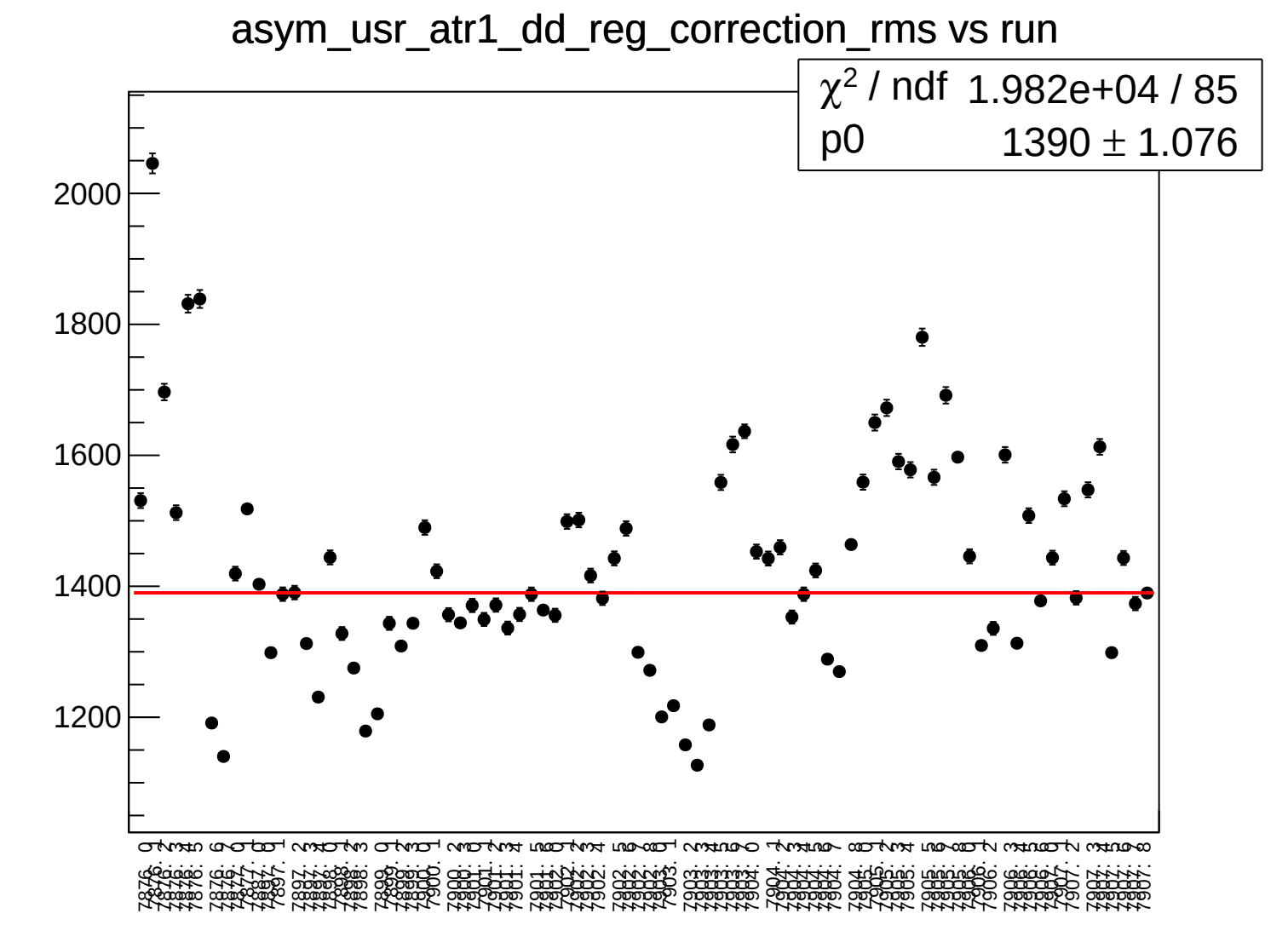

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 102.2 / 85
p0 796.6 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 3852
Std Dev 0
2
1
0
−1
−2

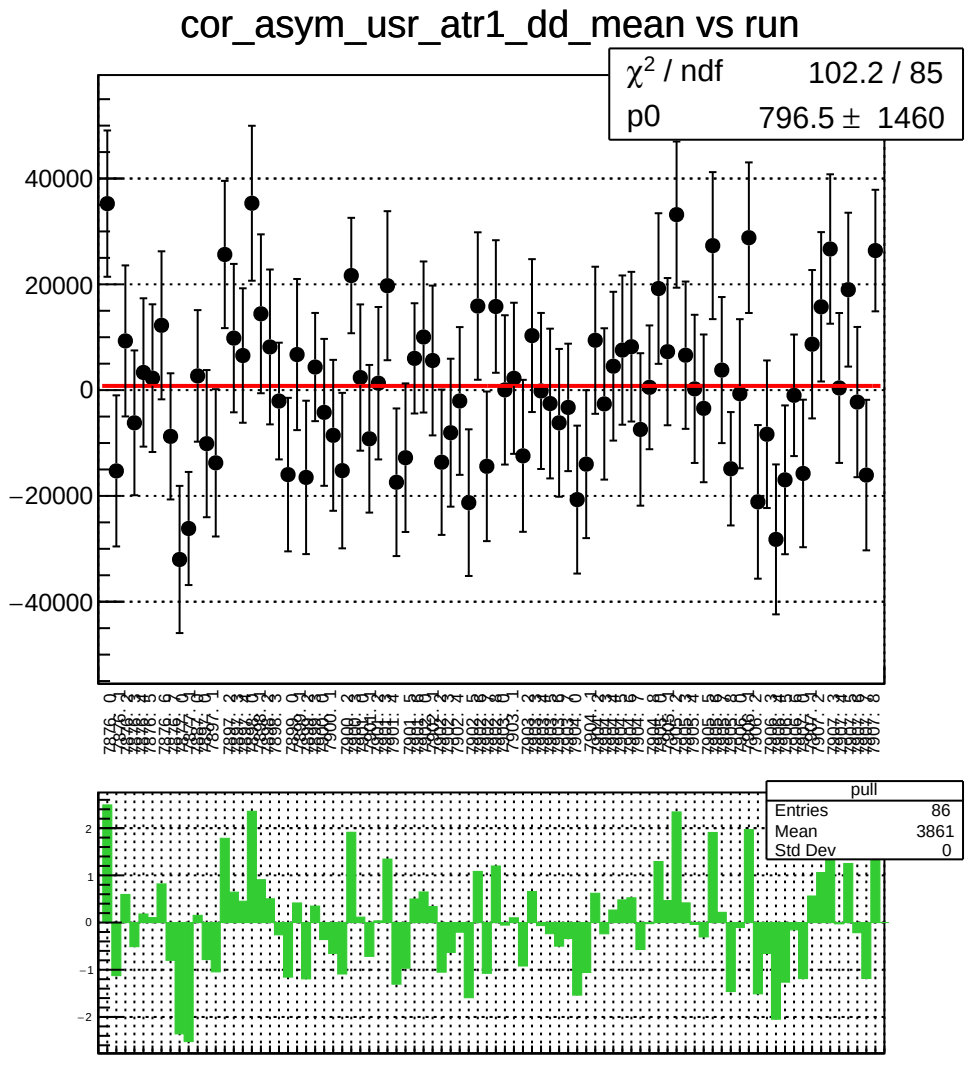

pull1D
Entries 86
Mean 0.0004518
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

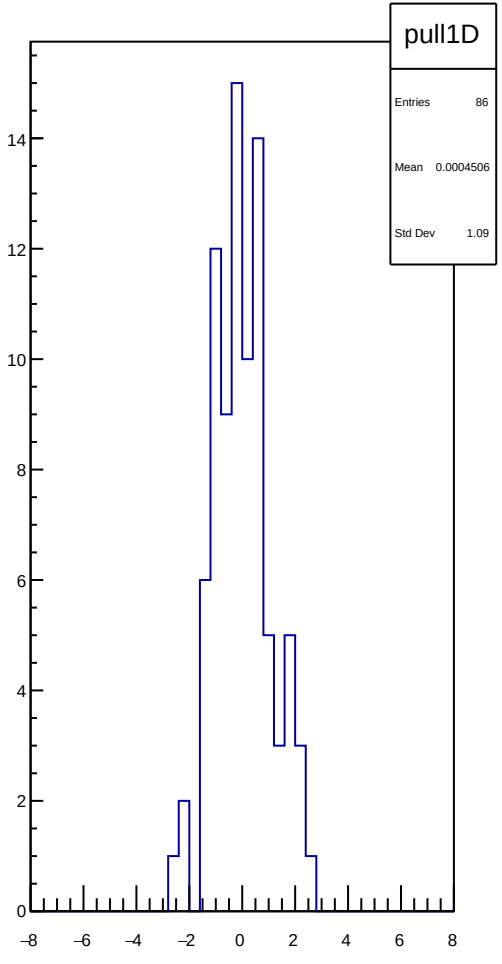

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 549.6 / 85
p0 1341 ± 1.032
1440
1420
1400
1380
1360
1340
1320
1300
1280

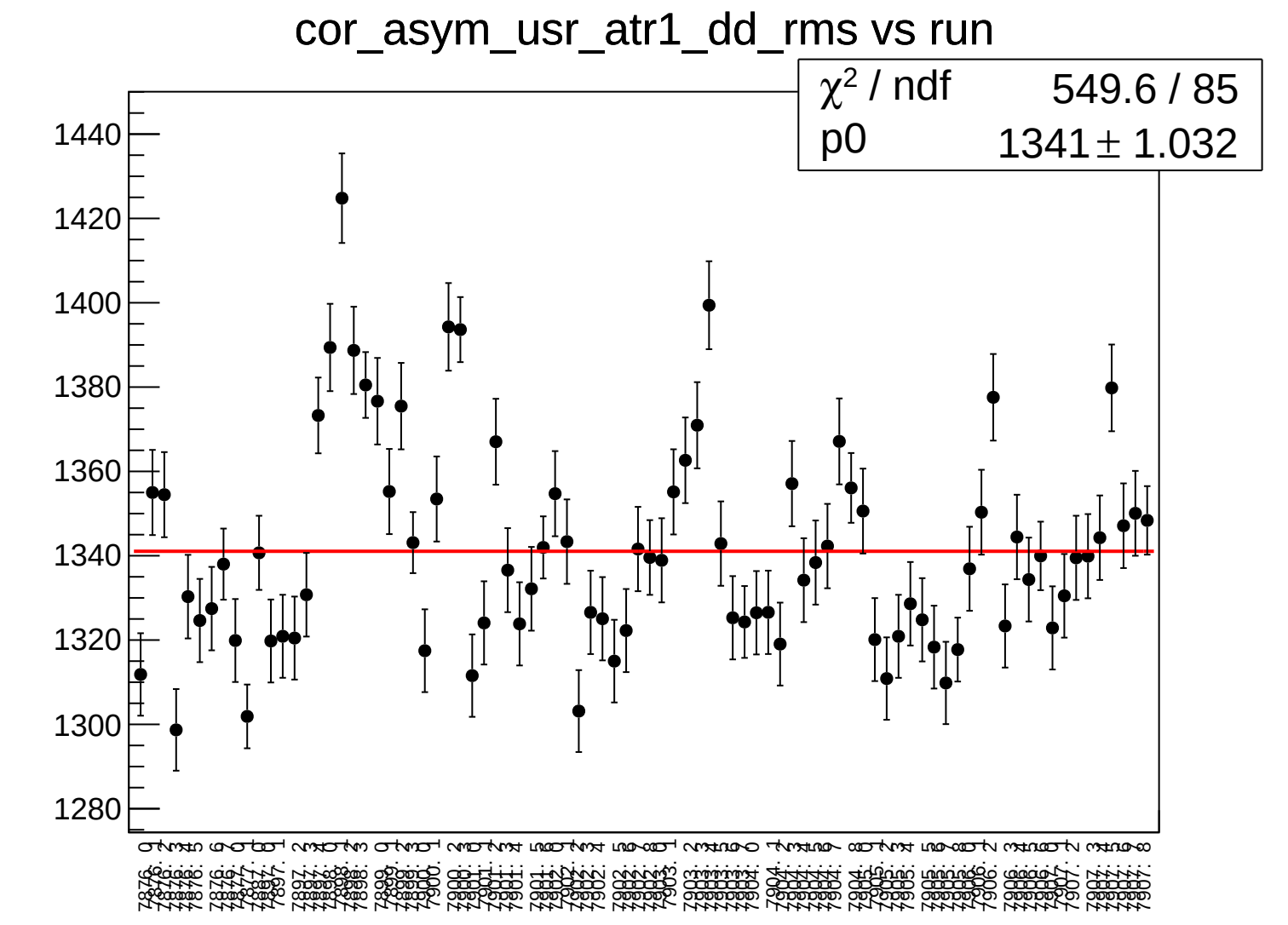

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 90.6 / 85
p0 2707 ± 1522
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 7.282
Std Dev 36.23
2
1
0
−1
−2
−3

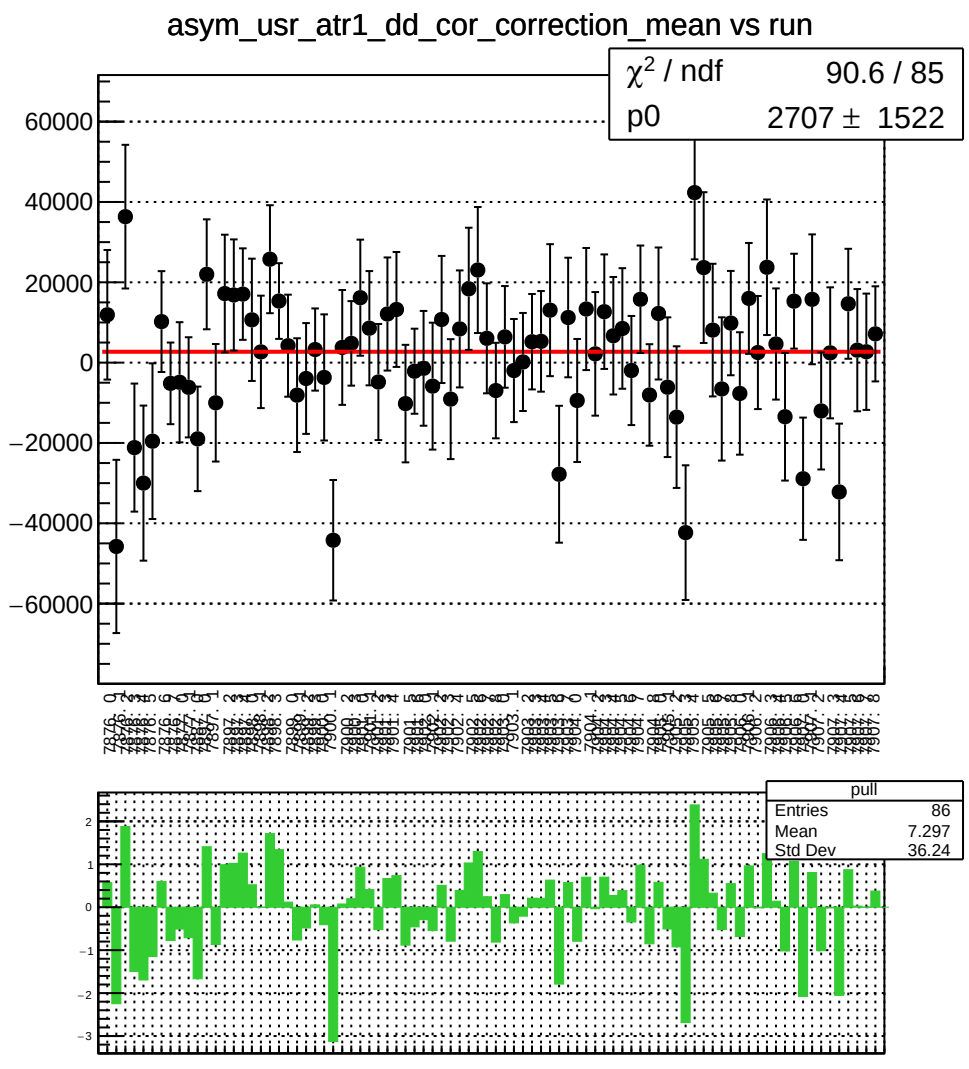

pull1D
Entries 86
Mean −0.03144
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

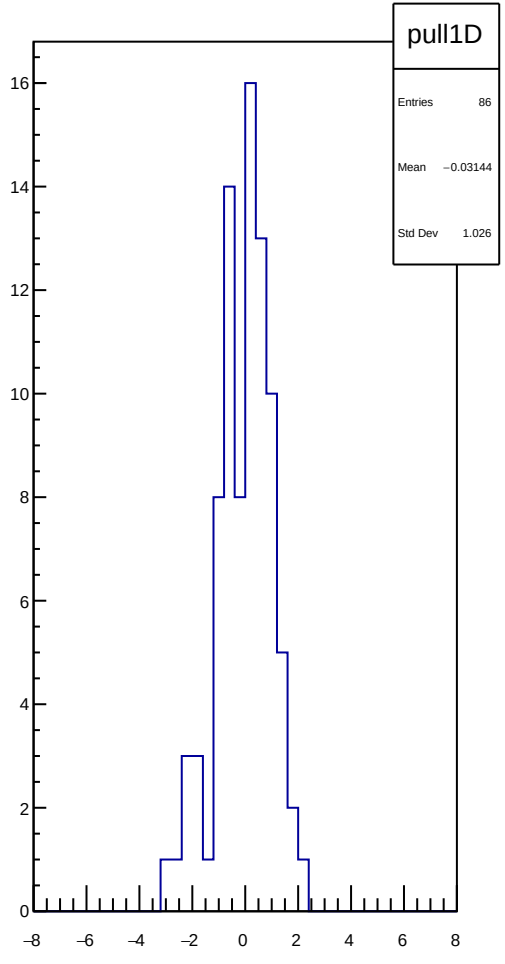

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.982e+04 / 85
p0 1390 ± 1.076
2000
1800
1600
1400
1200

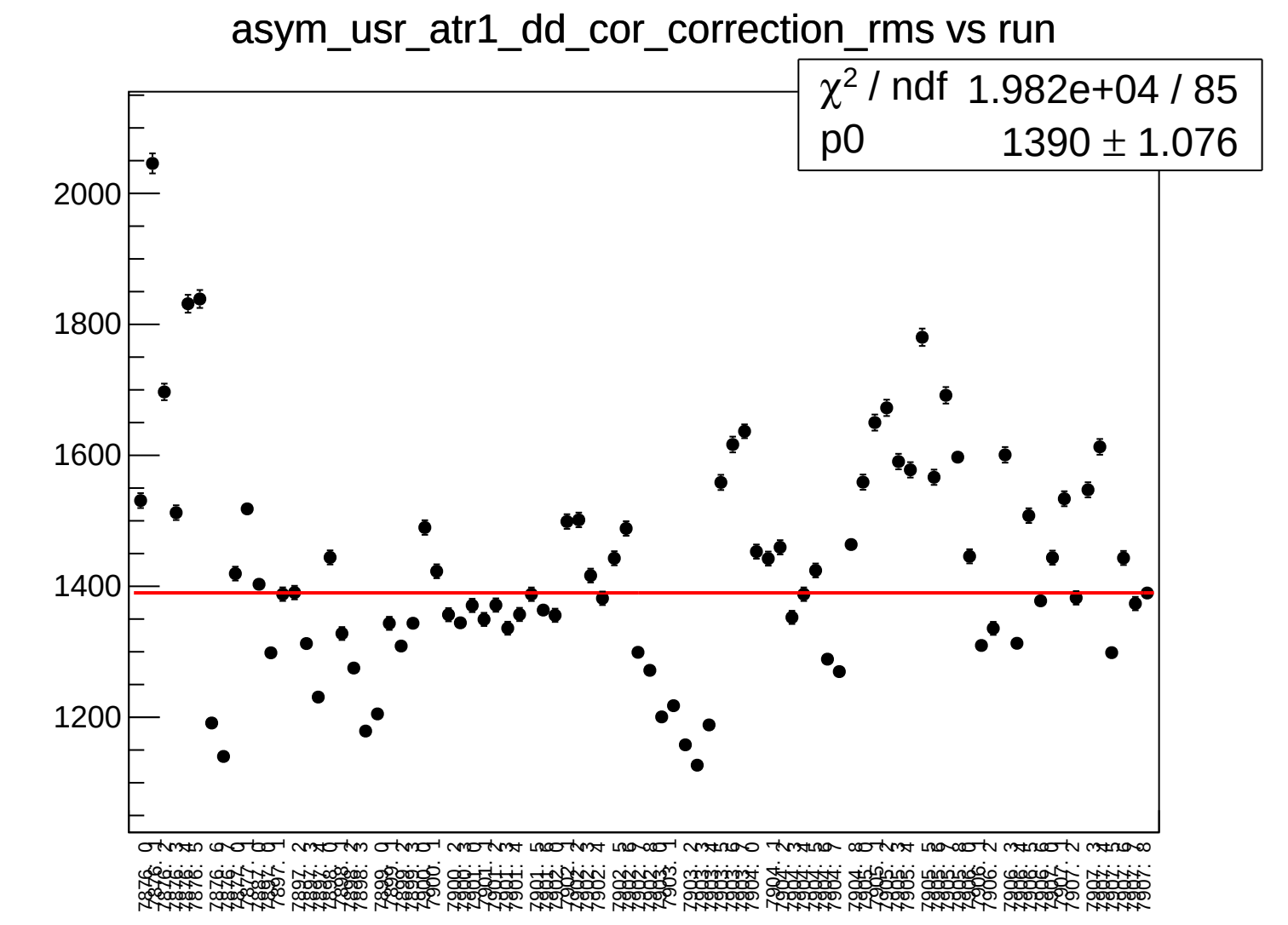

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 102.2 / 85
p0 796.5 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 3861
Std Dev 0
2
1
0
−1
−2

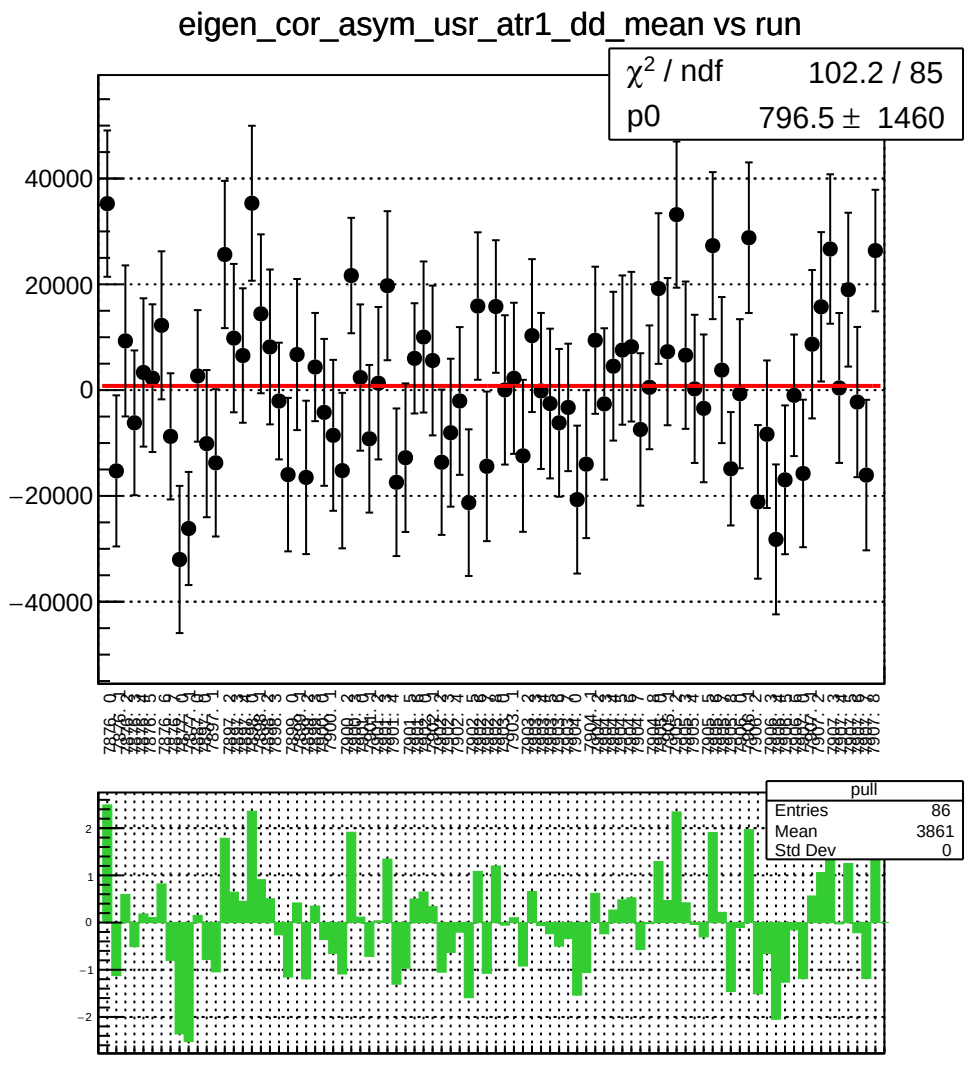

pull1D
Entries 86
Mean 0.0004506
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

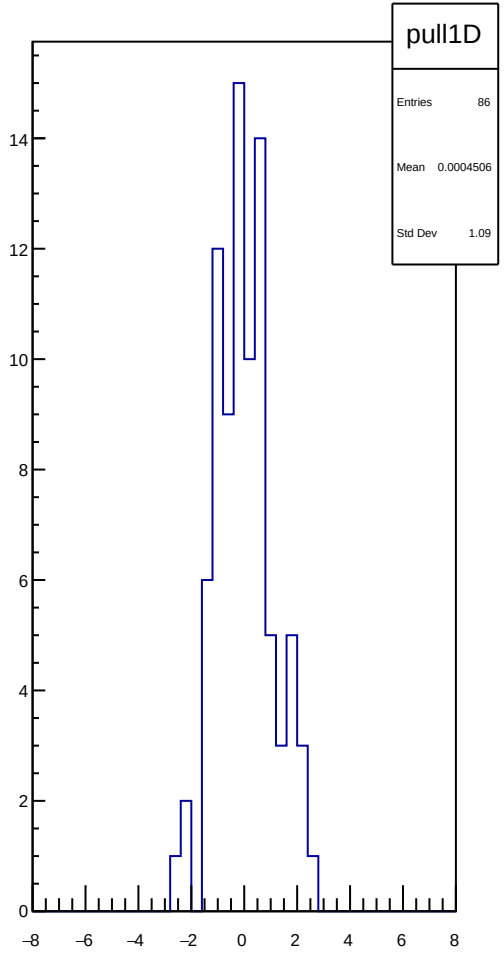

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 549.6 / 85
p0 1341 ± 1.032
1440
1420
1400
1380
1360
1340
1320
1300
1280

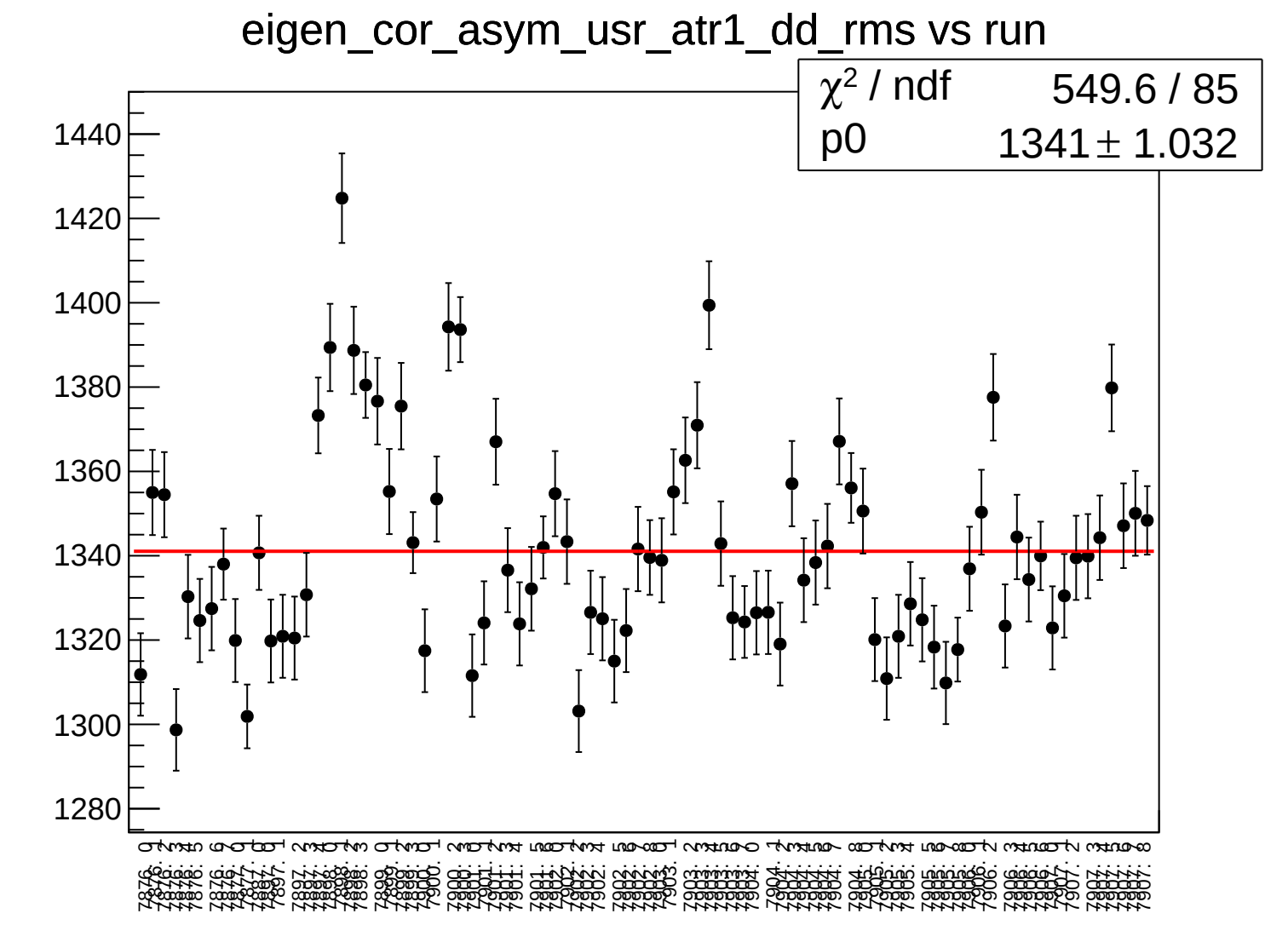

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 90.6 / 85
p0 2707 ± 1522
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 7.297
Std Dev 36.24
2
1
0
−1
−2
−3

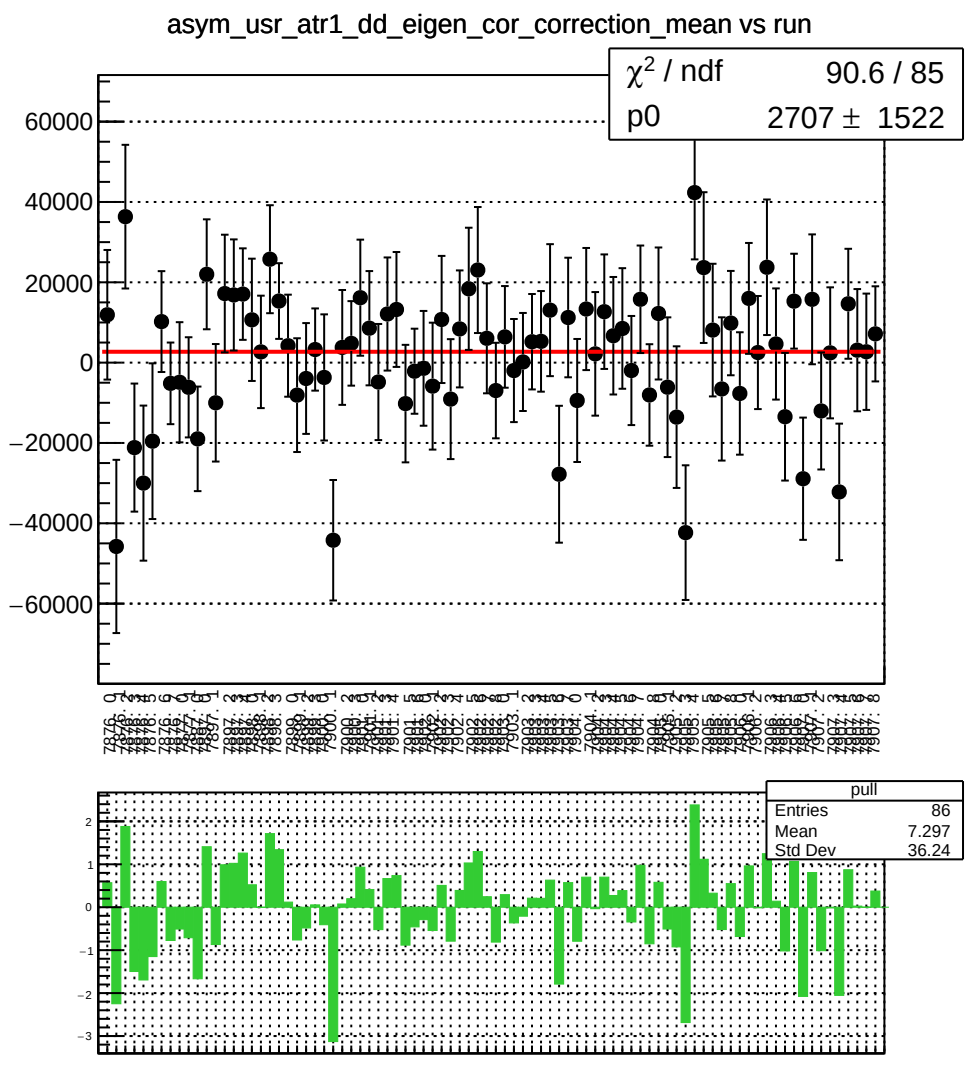

pull1D
Entries 86
Mean −0.03144
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

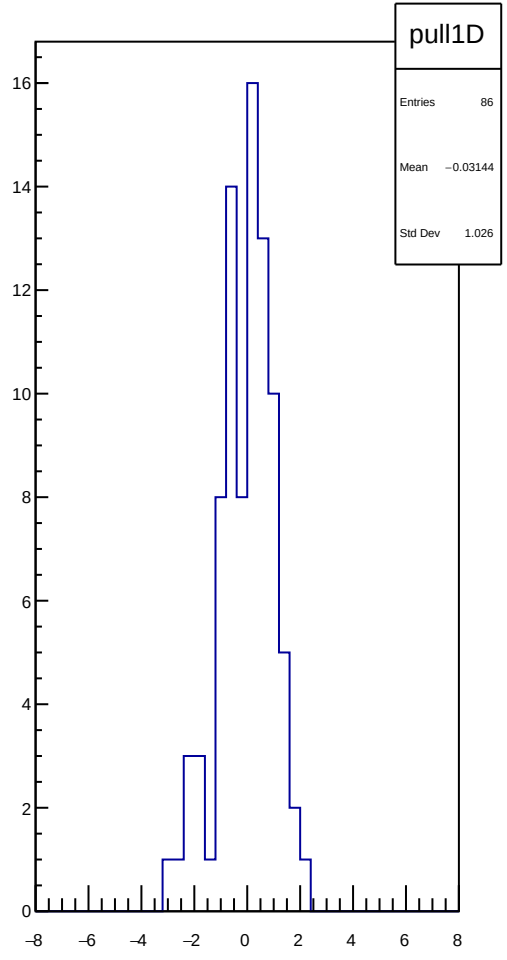

asym_usr_atr1_dd_cor_correction_rms vs run
χ^2 / ndf 1.982e+04 / 85
p0 1390 ± 1.076
2000
1800
1600
1400
1200

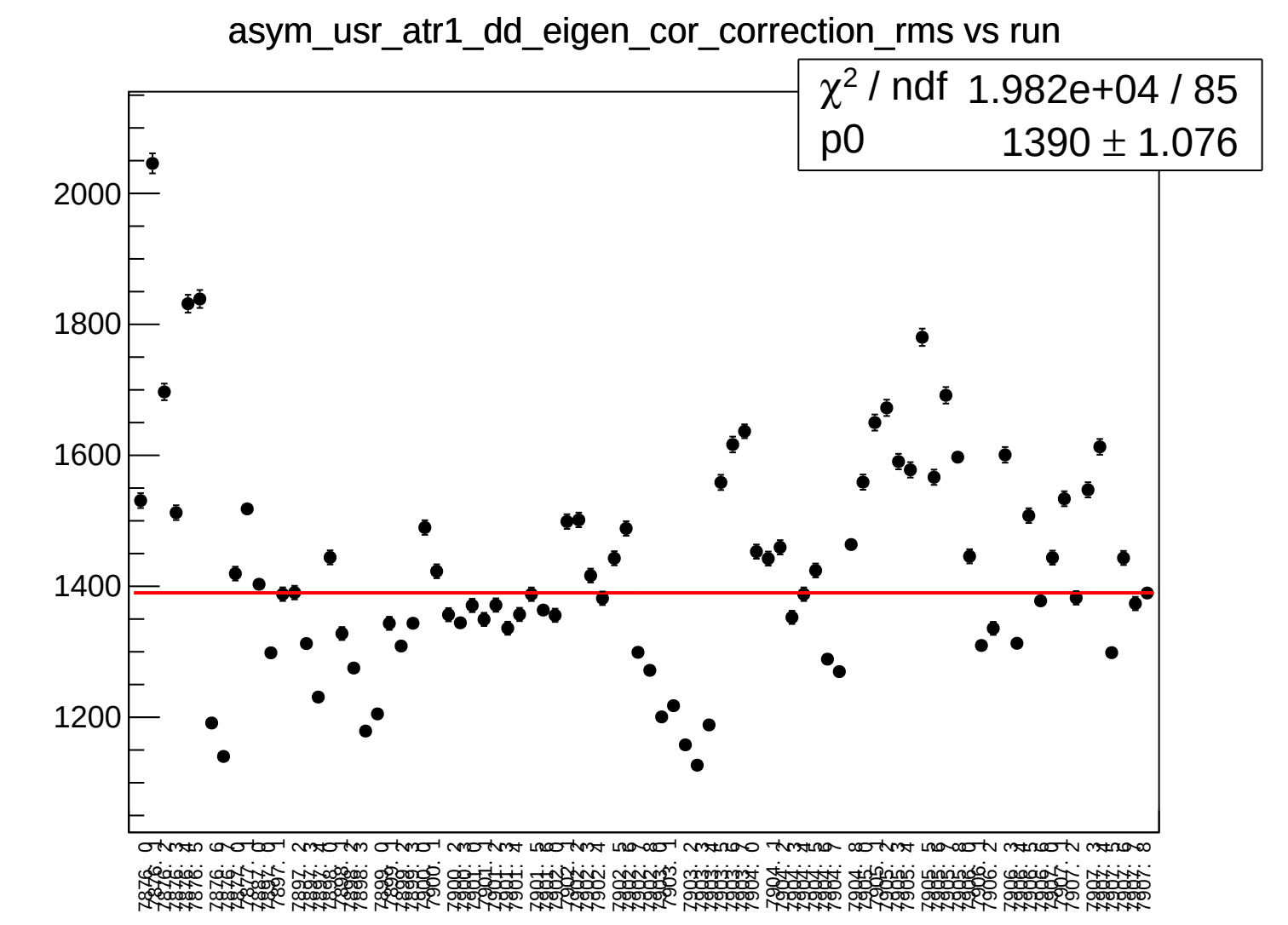

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 102.2 / 85
p0 796.5 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 3861
Std Dev 0
2
1
0
−1
−2

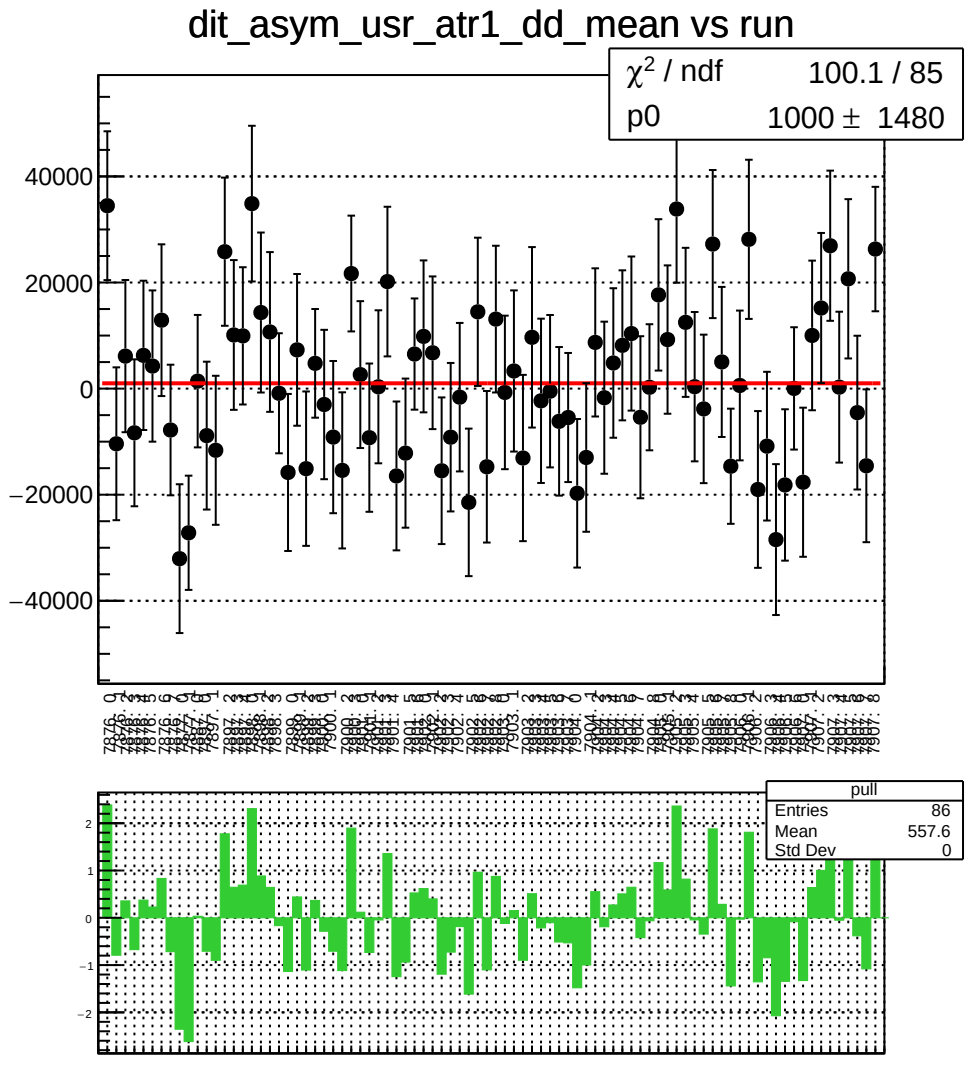

pull1D
Entries 86
Mean 0.0004506
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

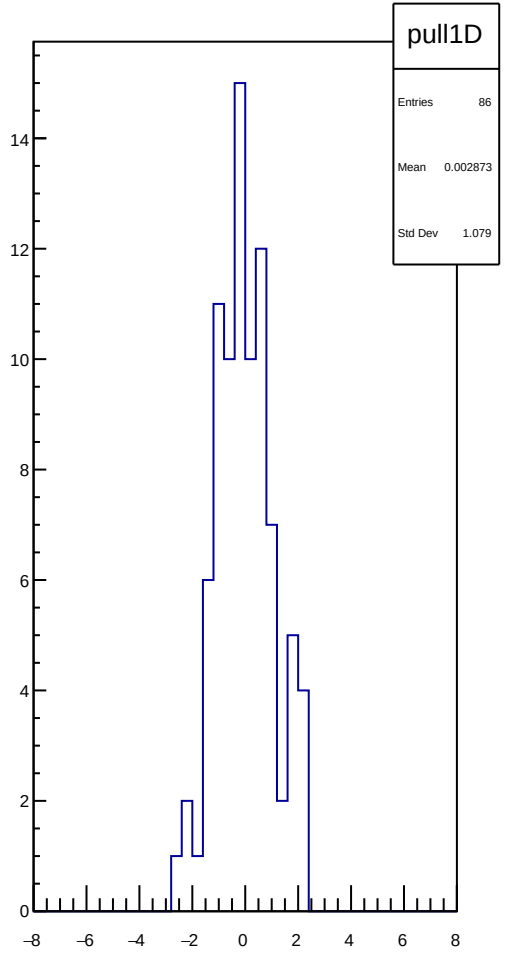

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 549.6 / 85
p0 1341 ± 1.032
1440
1420
1400
1380
1360
1340
1320
1300
1280

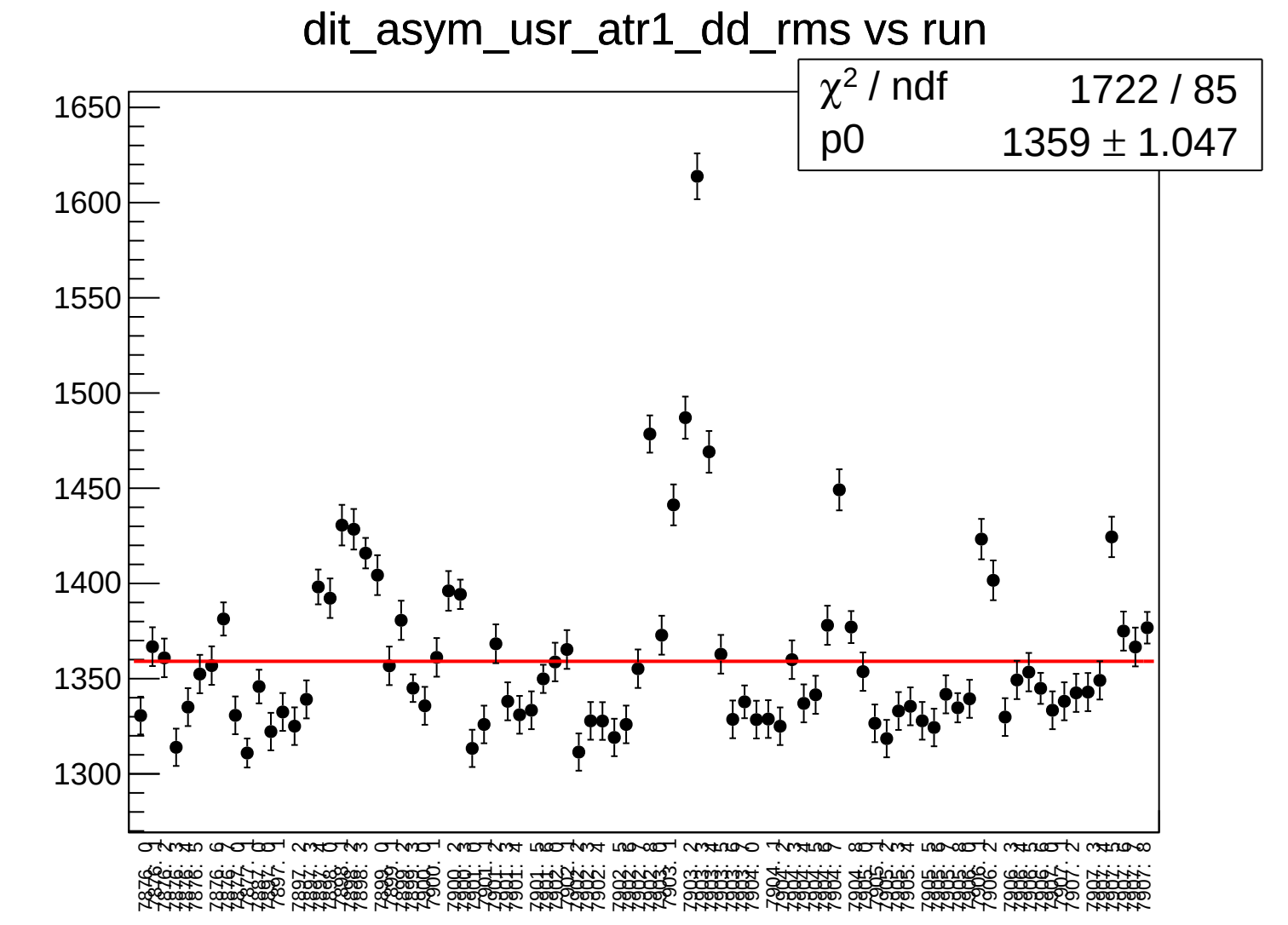

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.6 / 85
p0 2707 ± 1522
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 7.297
Std Dev 36.24
2
1
0
−1
−2
−3

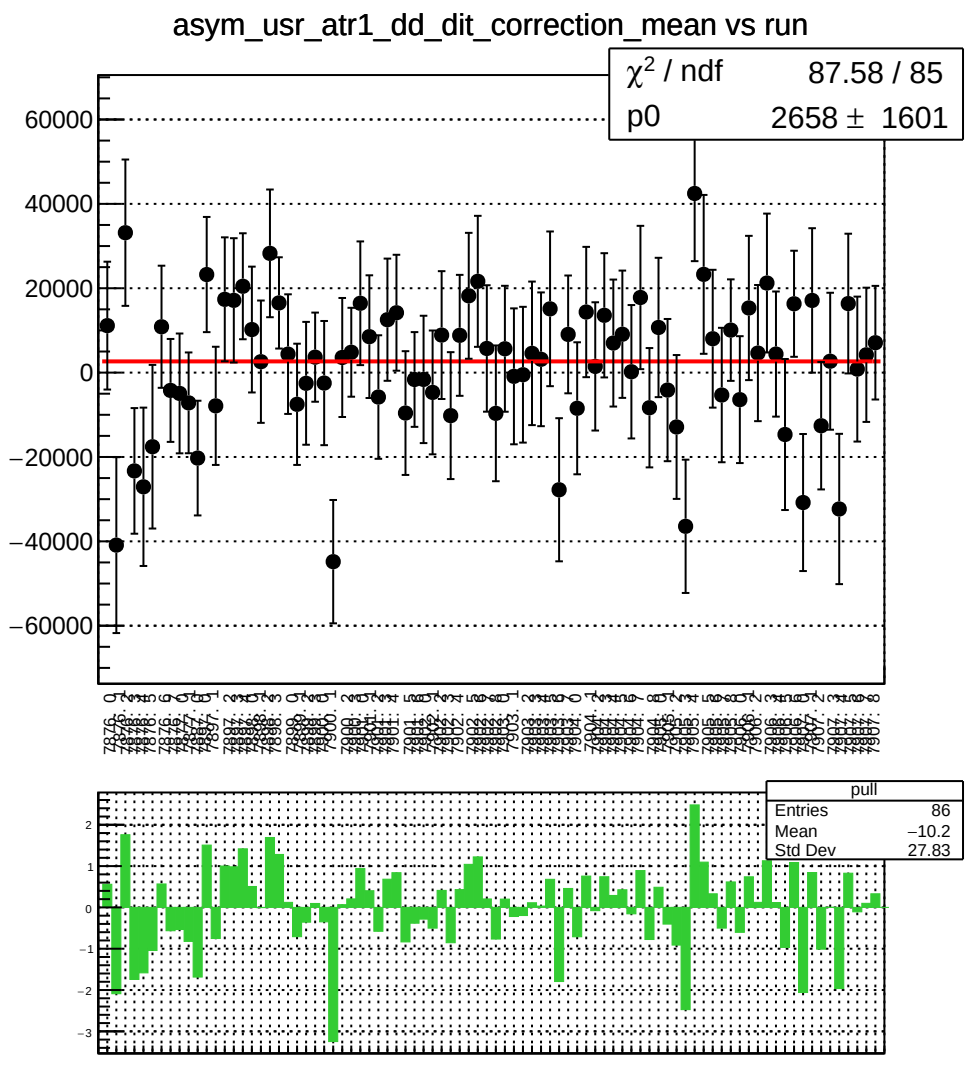

pull1D
Entries 86
Mean −0.03144
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

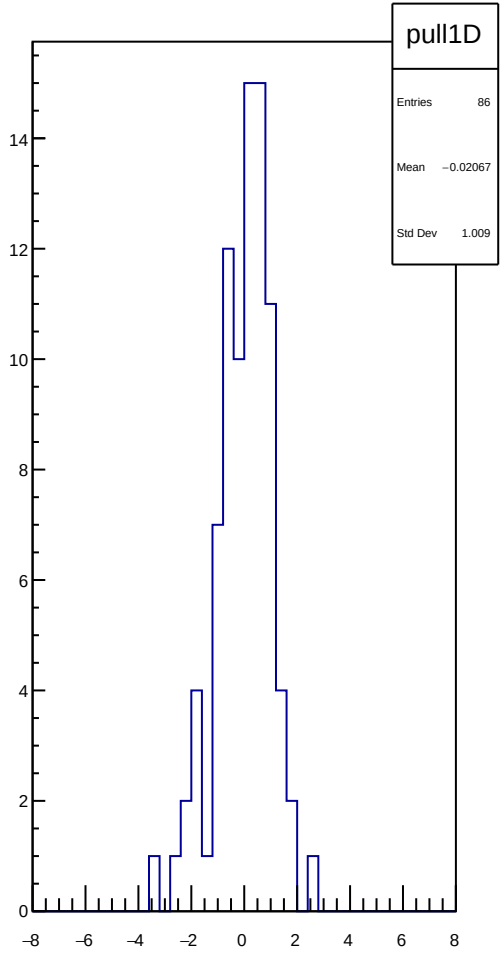

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.982e+04 / 85
p0 1390 ± 1.076
2000
1800
1600
1400
1200

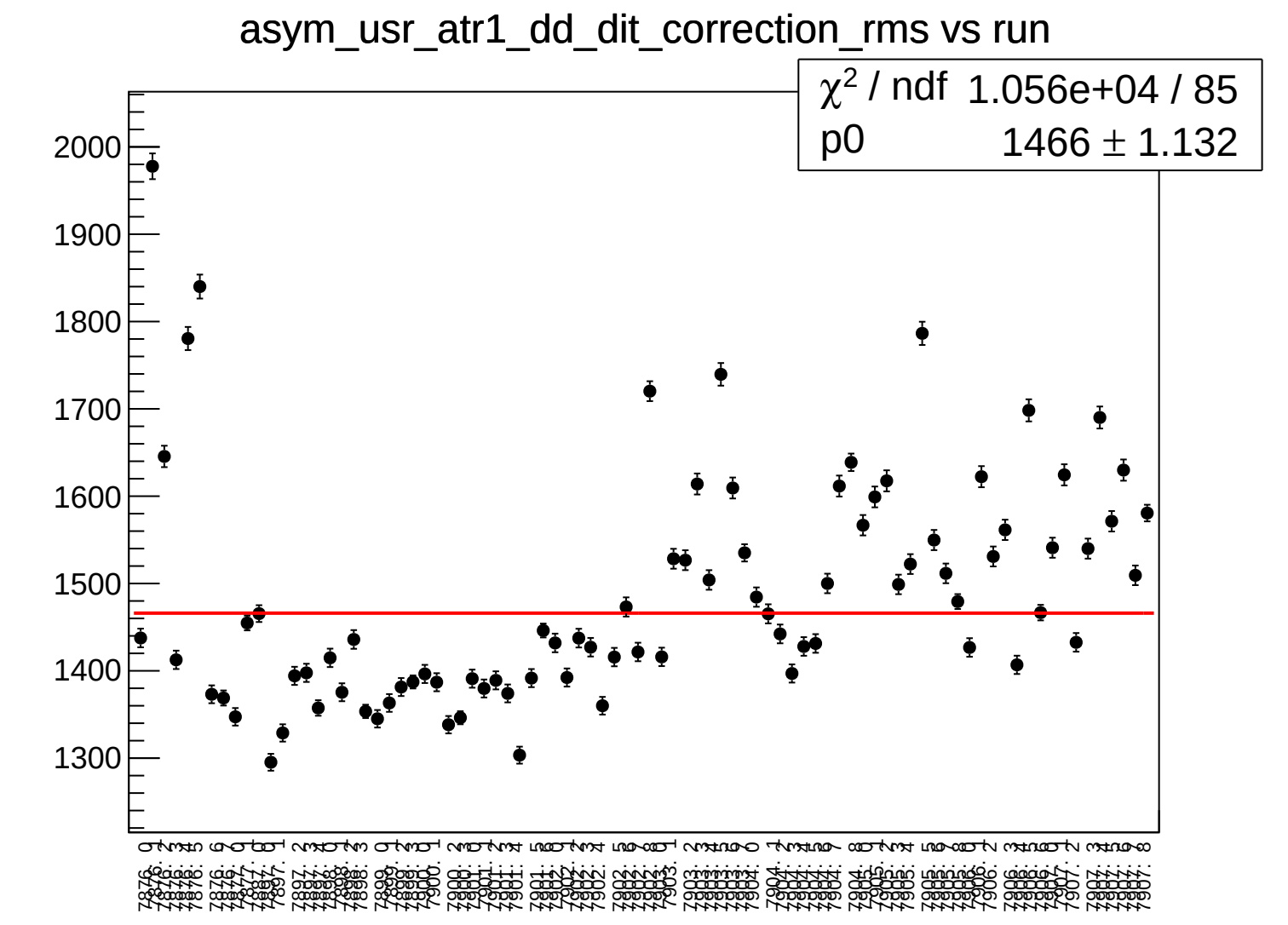

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 100.1 / 85
p0 1000 ± 1480
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 557.6
Std Dev 0
2
1
0
−1
−2

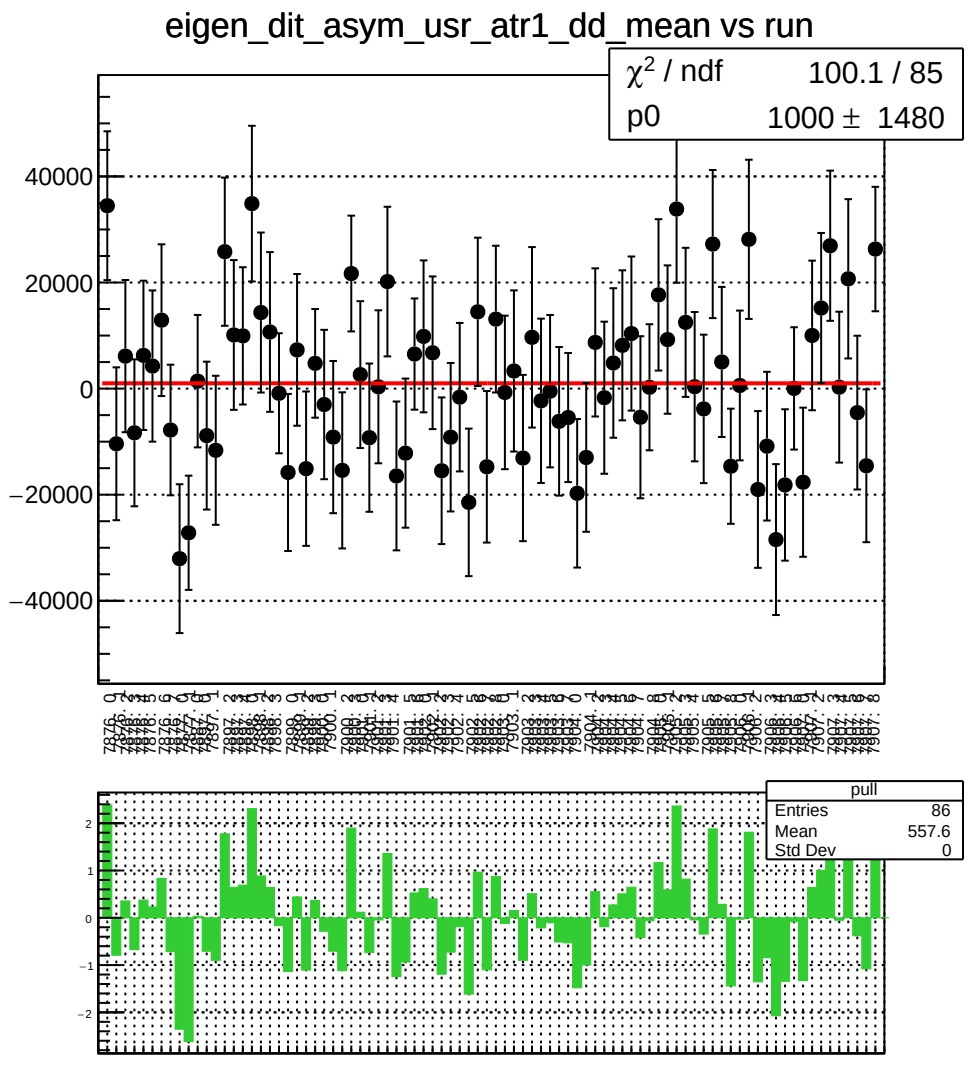

pull1D
Entries 86
Mean 0.002873
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

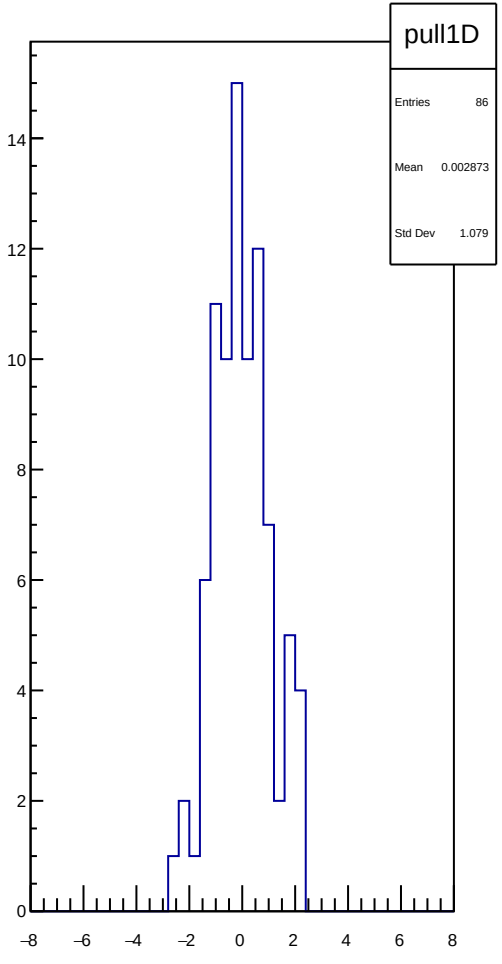

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 1722 / 85
p0 1359 ± 1.047
1650
1600
1550
1500
1450
1400
1350
1300

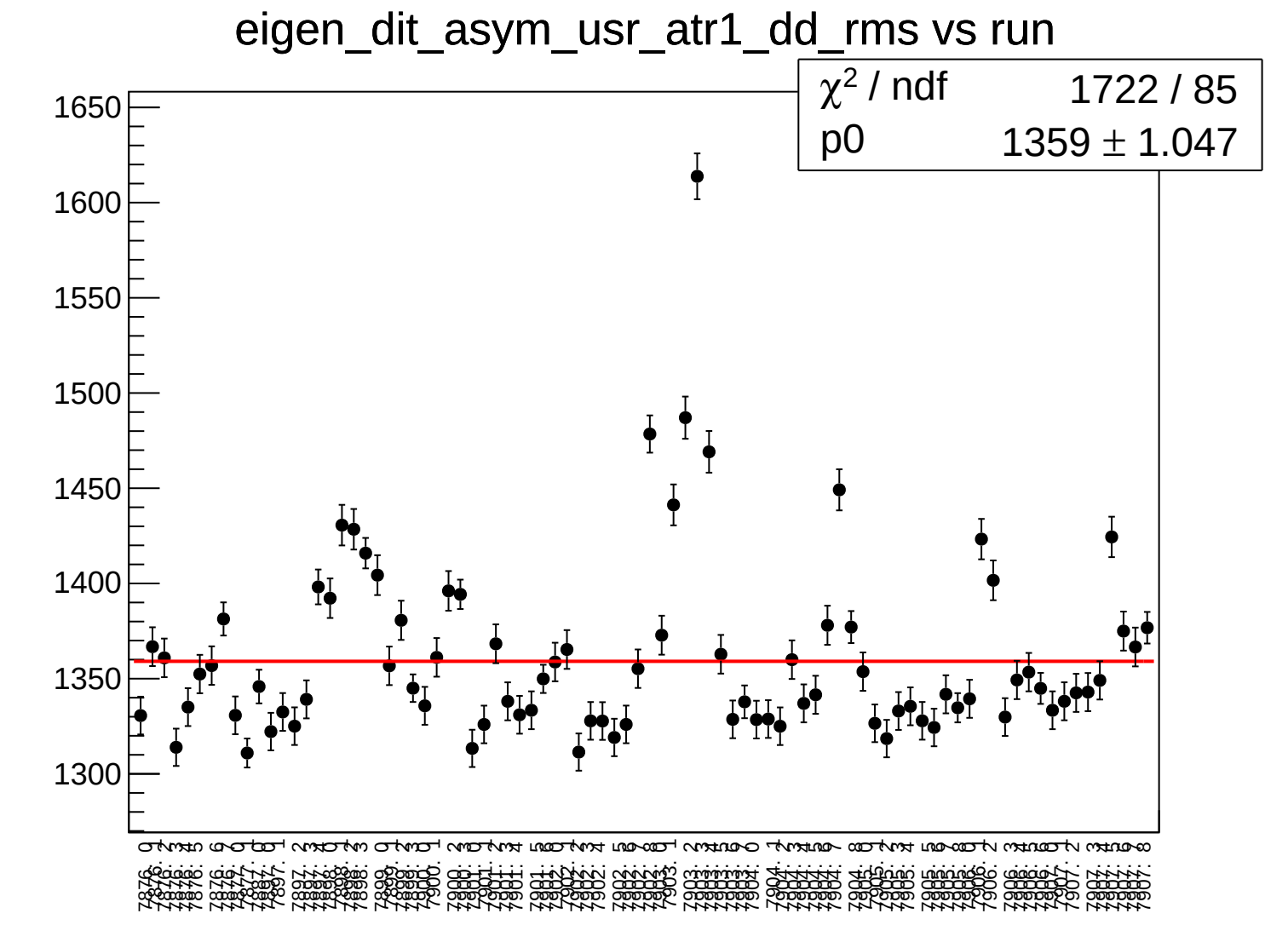

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 87.58 / 85
p0 2658 ± 1601
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −10.2
Std Dev 27.83
2
1
0
−1
−2
−3

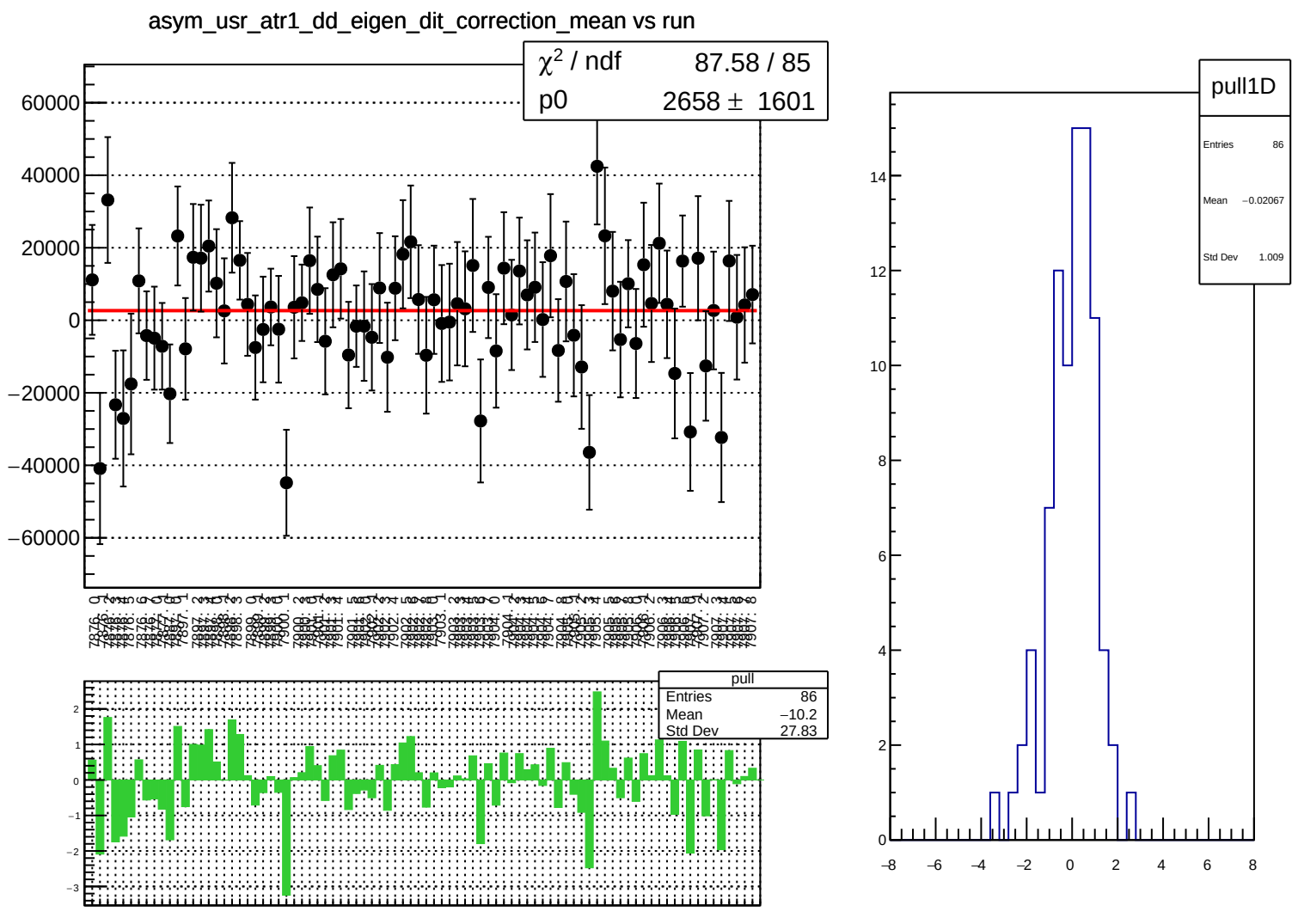

pull1D
Entries 86
Mean −0.02067
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

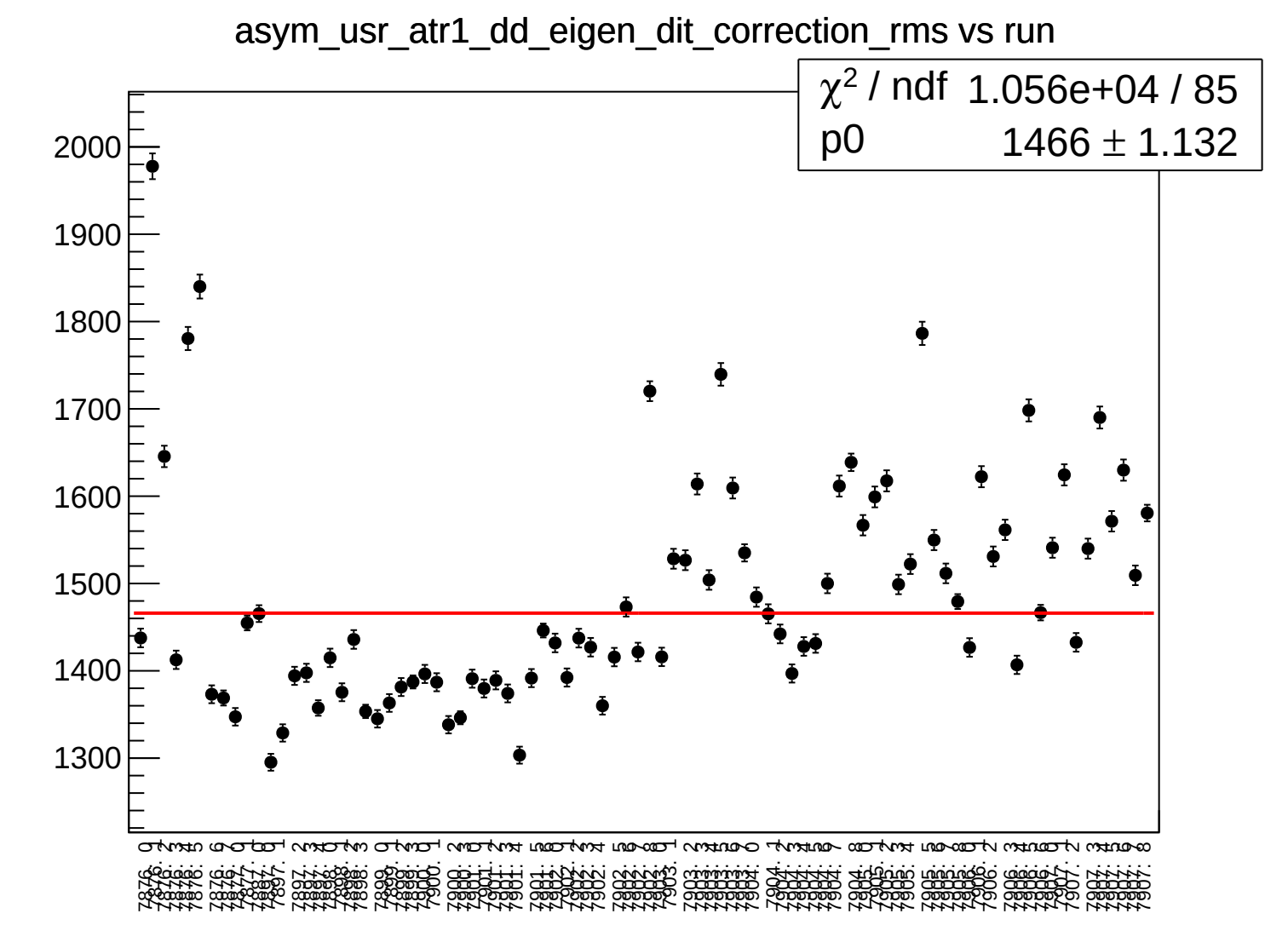

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.056e+04 / 85
p0 1466 ± 1.132
2000
1900
1800
1700
1600
1500
1400
1300

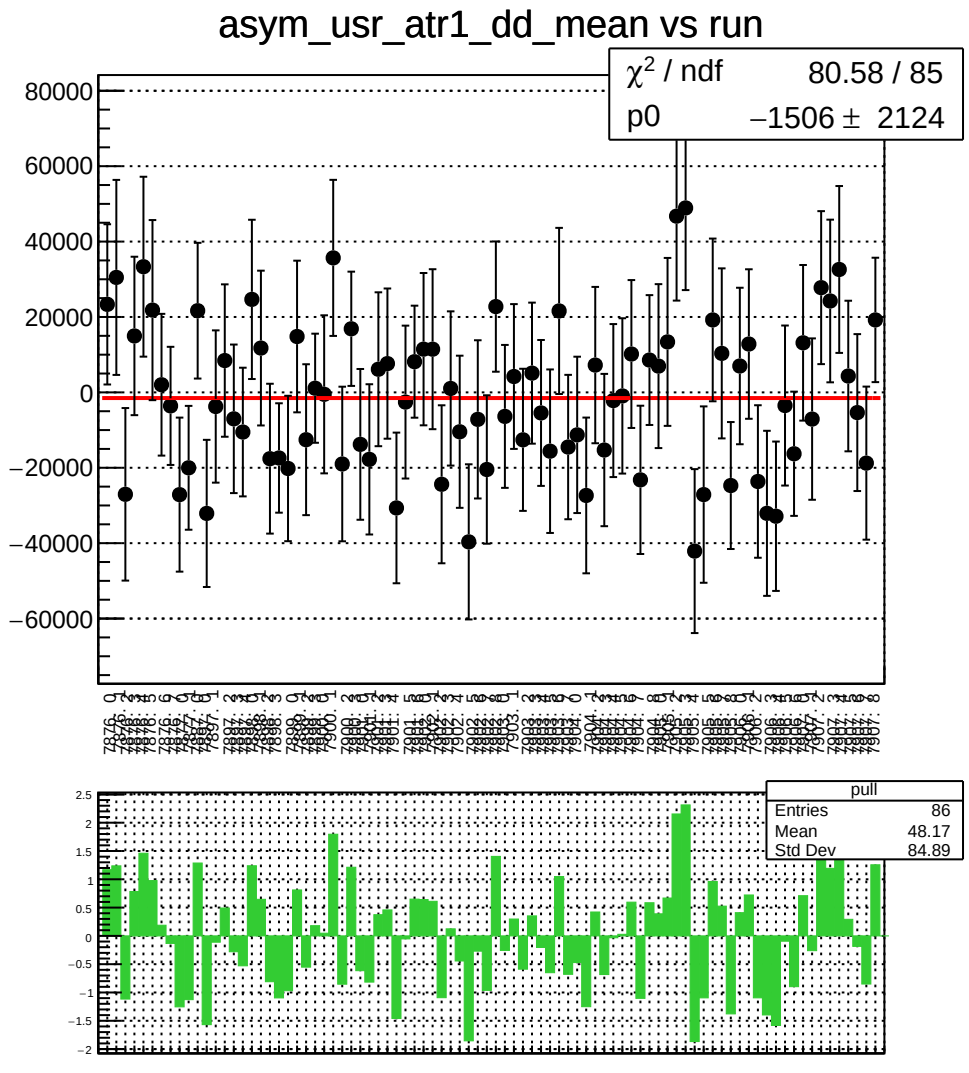

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 100.1 / 85
p0 1000 ± 1480
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 557.6
Std Dev 0
2
1
0
−1
−2

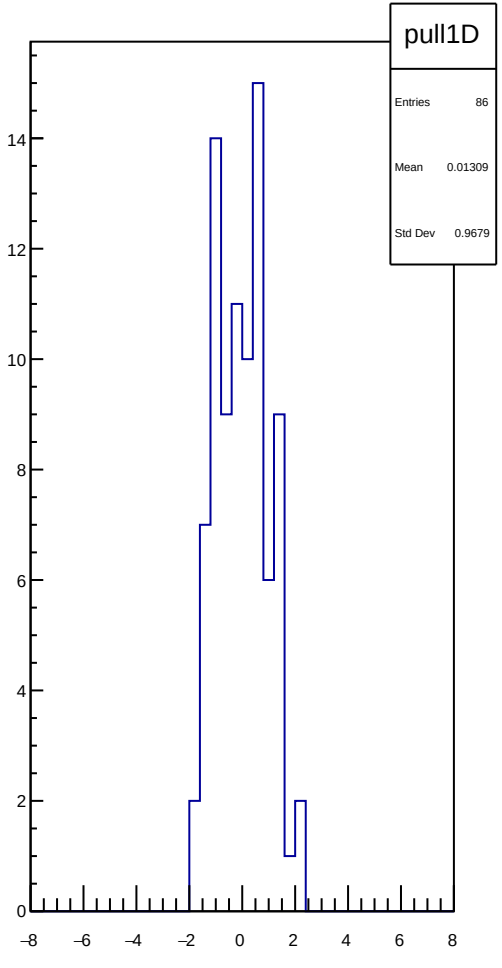

pull1D
Entries 86
Mean 0.002873
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

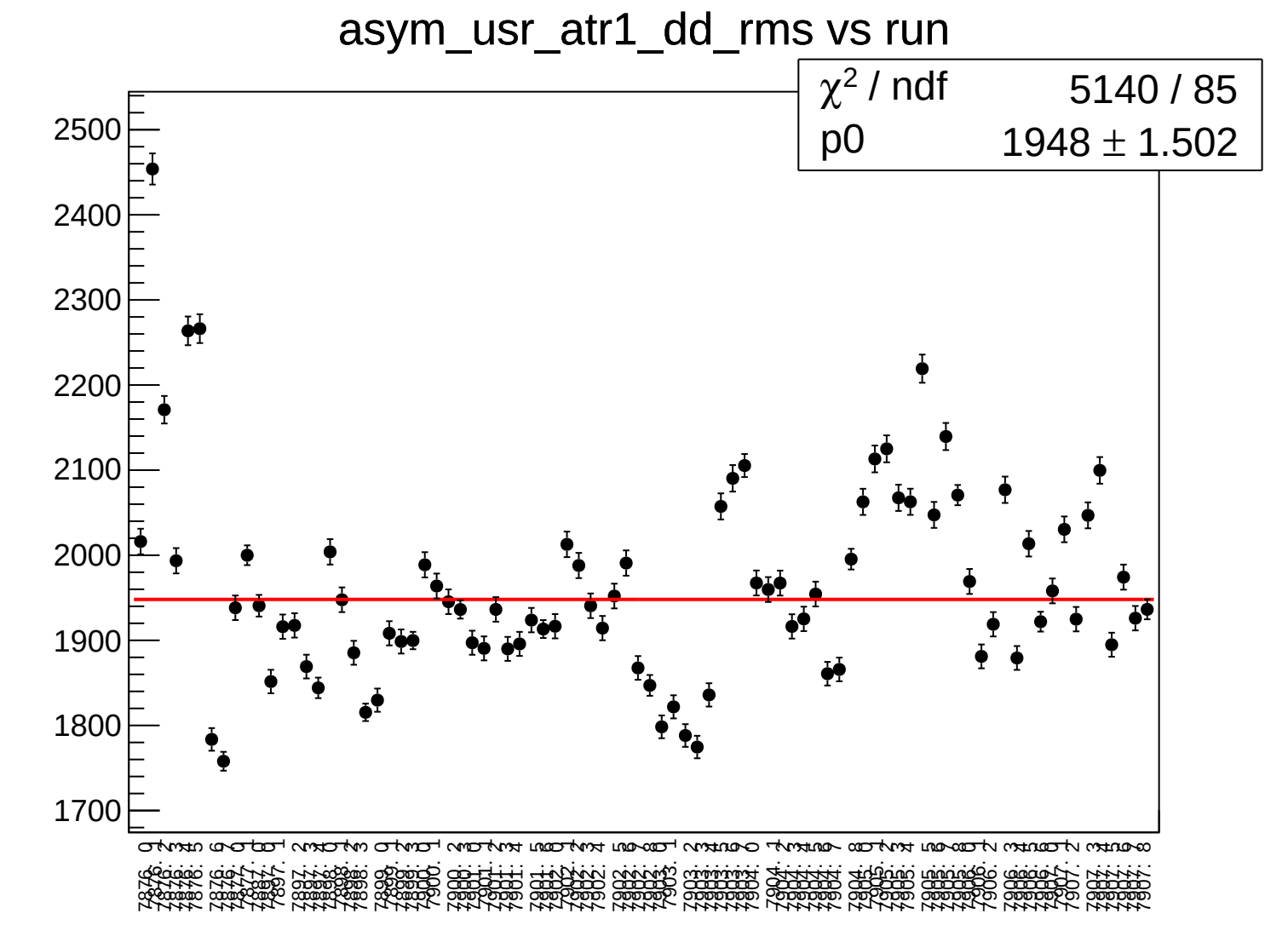

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 1722 / 85
p0 1359 ± 1.047
1650
1600
1550
1500
1450
1400
1350
1300

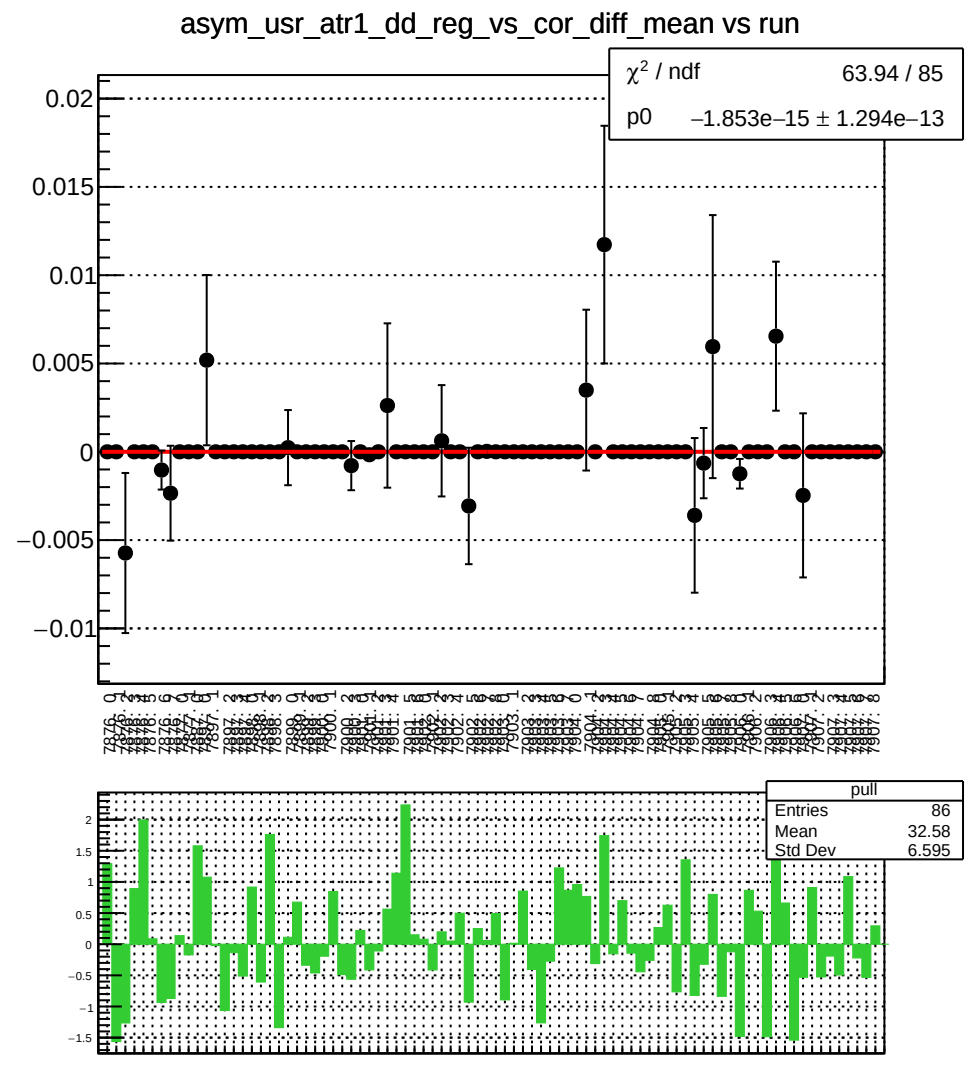

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.58 / 85
p0 2658 ± 1601
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −10.2
Std Dev 27.83
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.02067
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

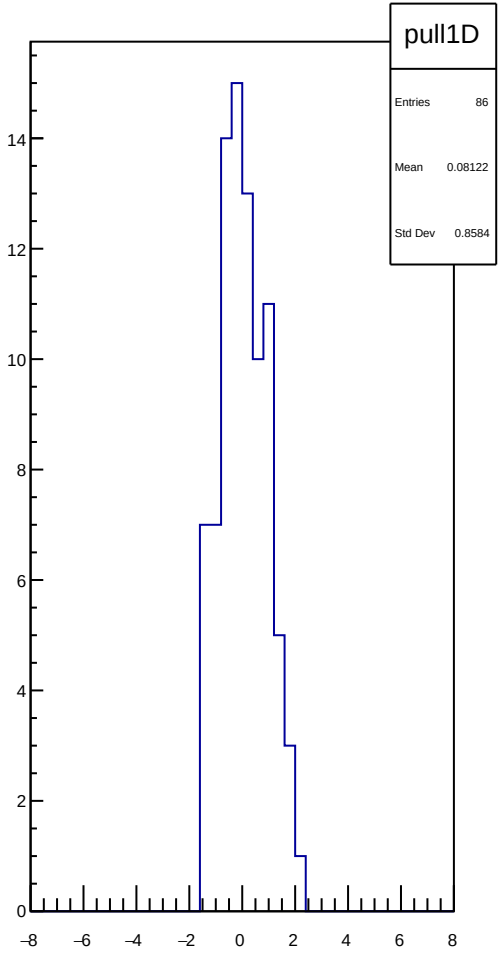

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.056e+04 / 85
p0 1466 ± 1.132
2000
1900
1800
1700
1600
1500
1400
1300

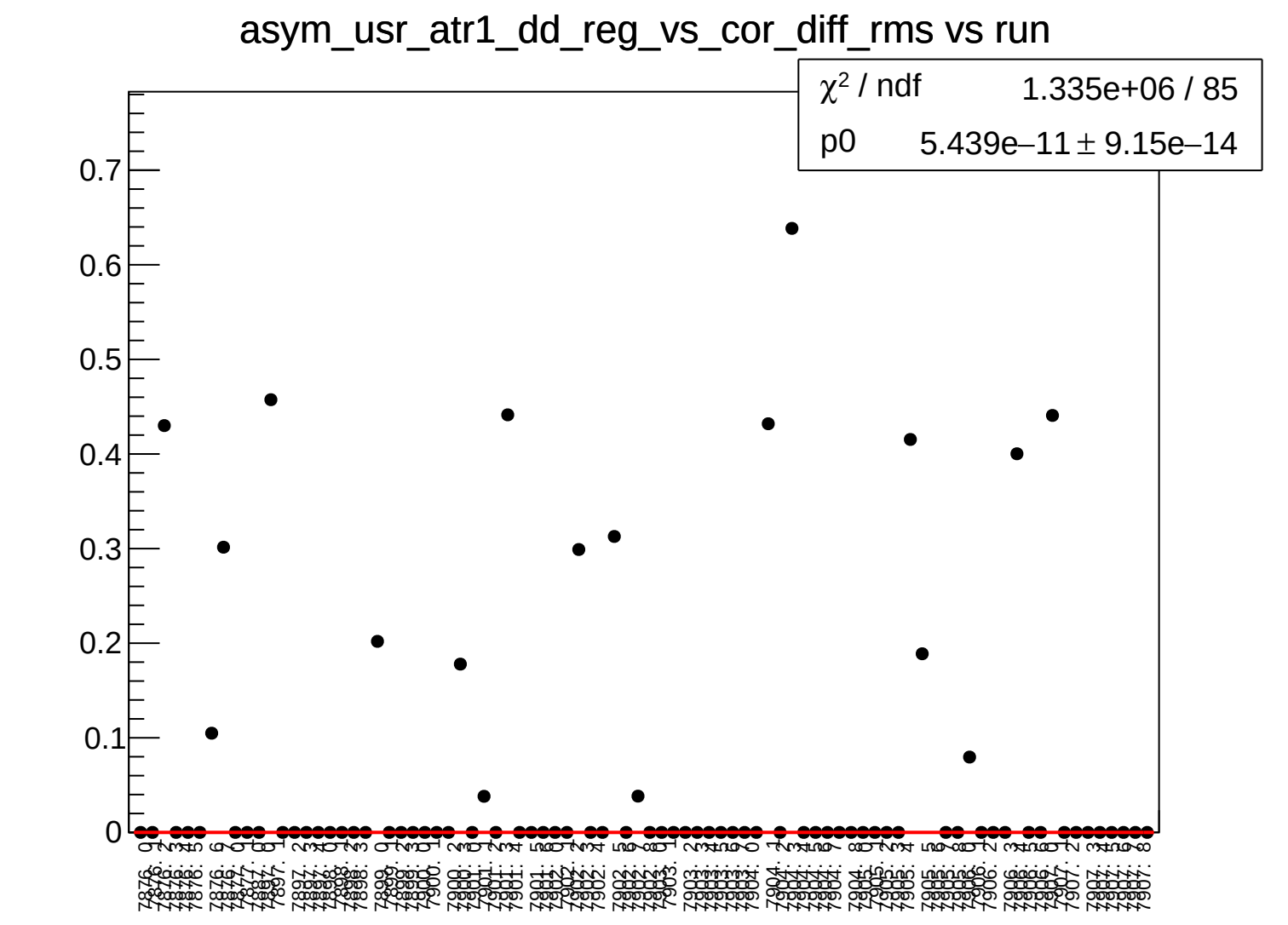

asym_usr_atr1_dd_mean vs run
χ² / ndf 80.58 / 85
p0 −1506 ± 2124
pull
Entries 86
Mean 48.17
Std Dev 84.89

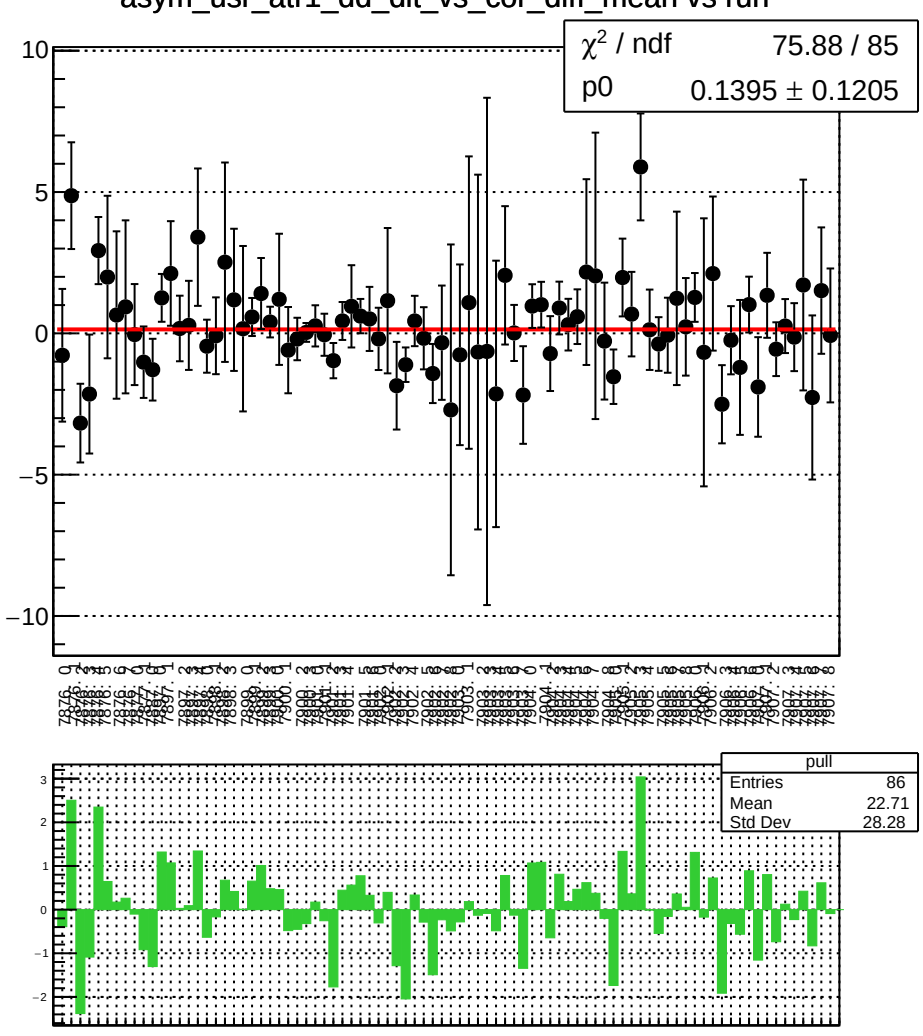

pull1D
Entries 86
Mean 0.01309
Std Dev 0.9679

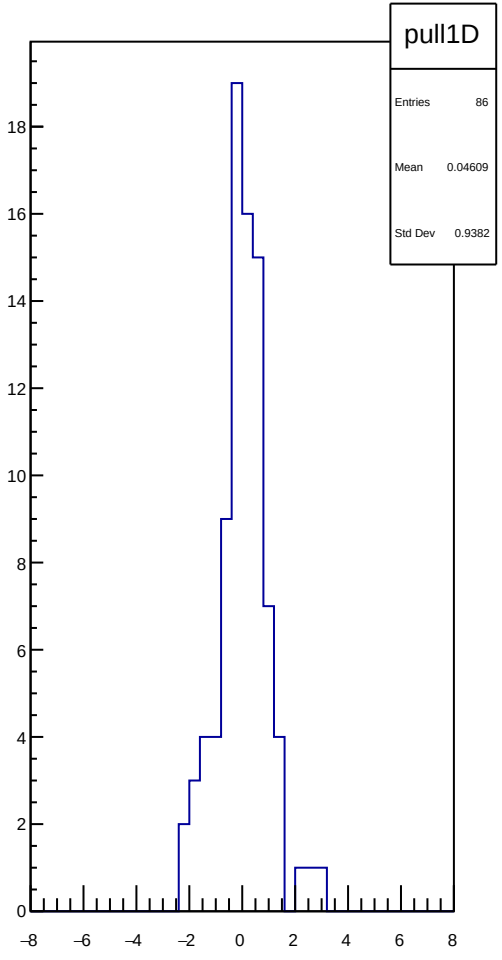

asym_usr_atr1_dd_rms vs run
χ² / ndf 5140 / 85
p0 1948 ± 1.502
2500
2400
2300
2200
2100
2000
1900
1800
1700

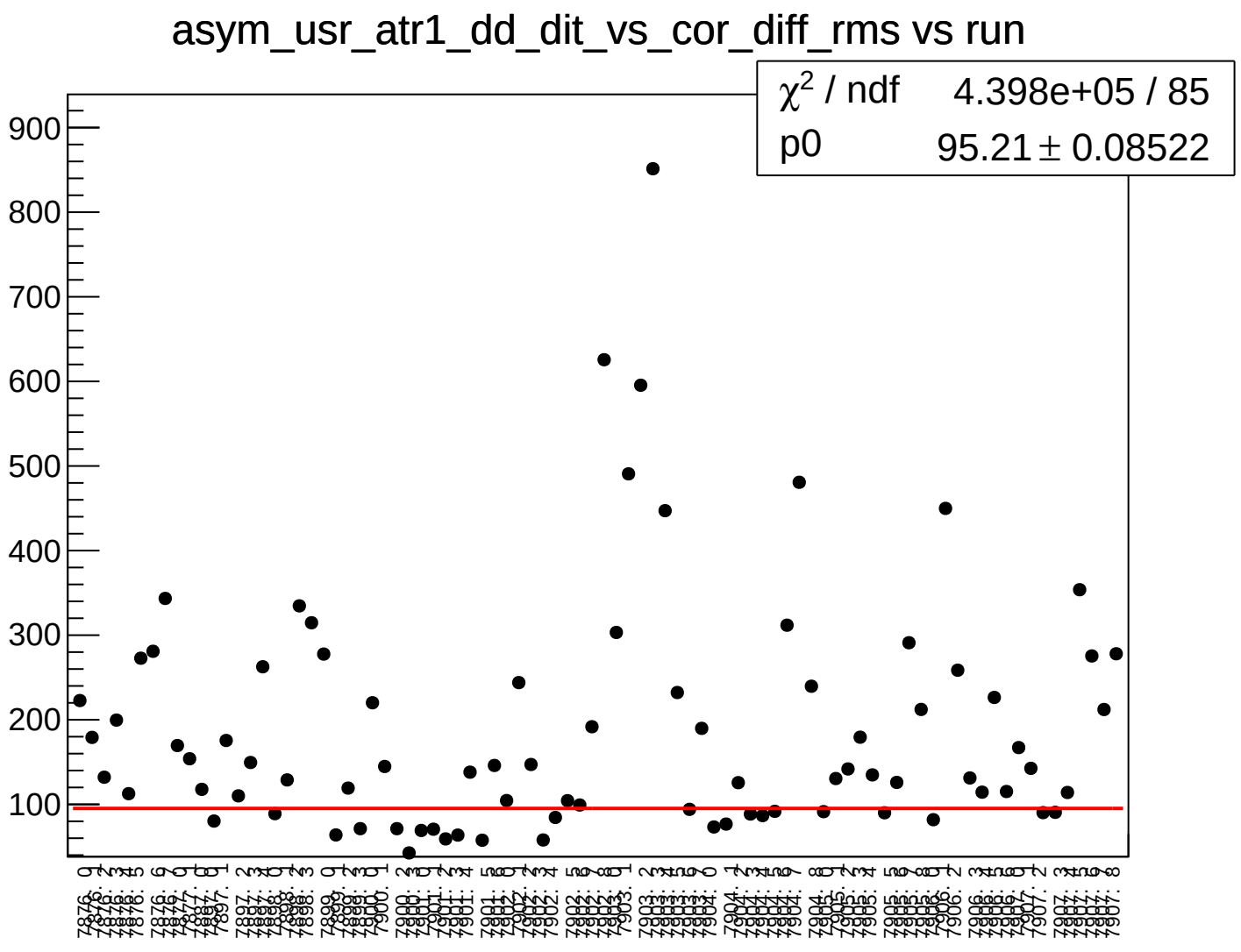

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 63.94 / 85
p0 −1.853e−15 ± 1.294e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean 32.58
Std Dev 6.595
2
1.5
1
0.5
0
−0.5
−1
−1.5

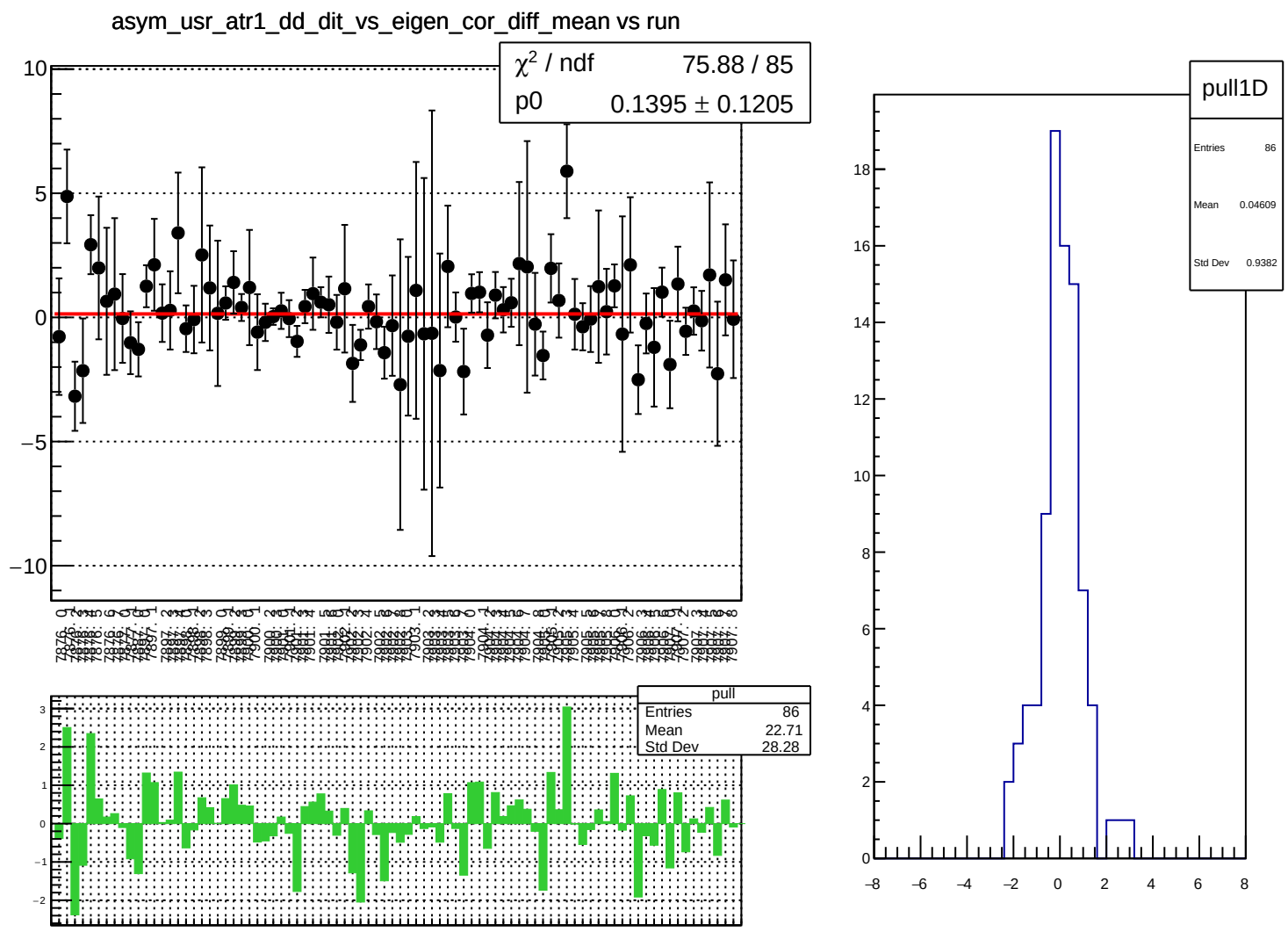

pull1D
Entries 86
Mean 0.08122
Std Dev 0.8584
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

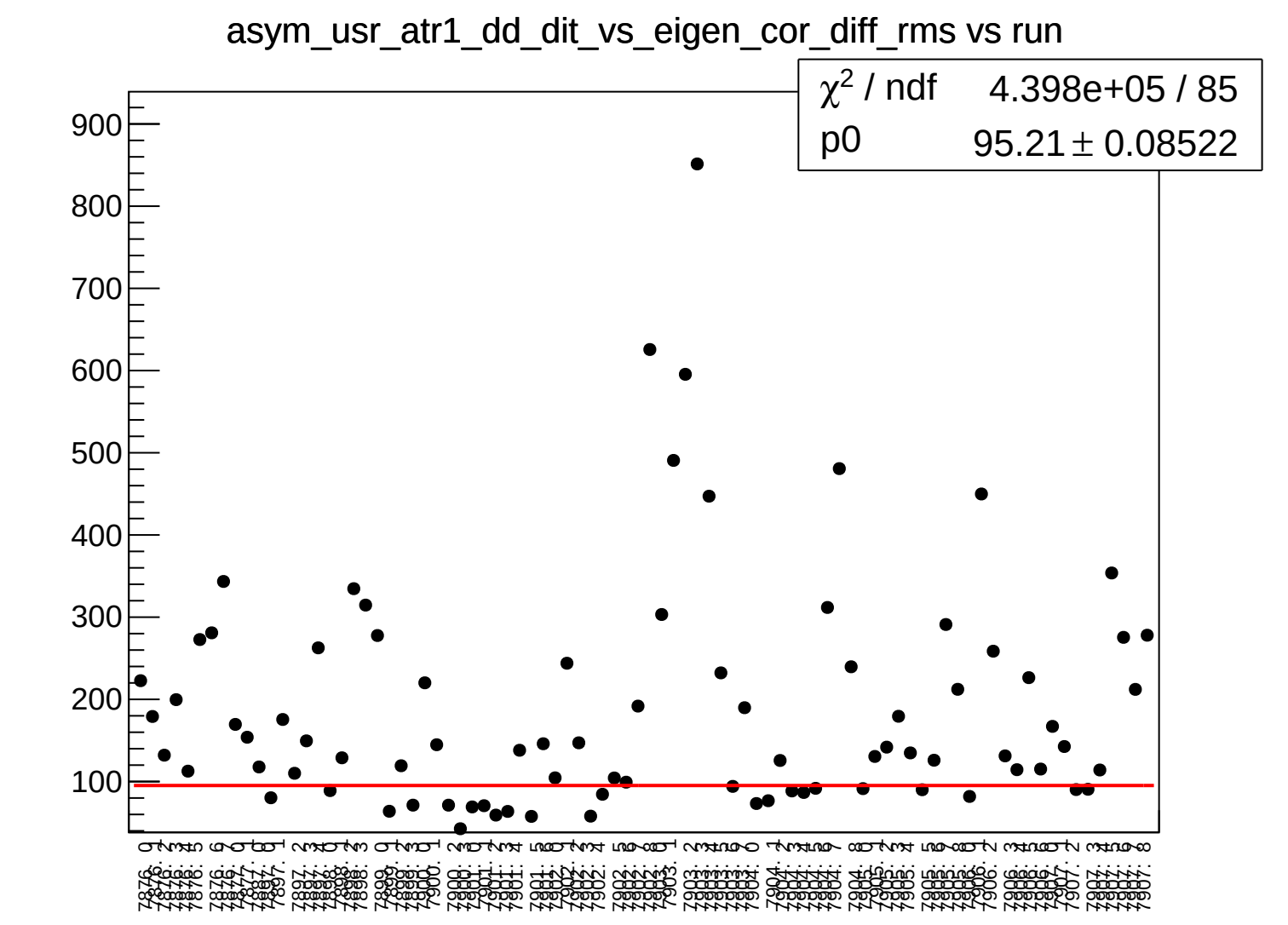

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.335e+06 / 85
p0 5.439e−11 ± 9.15e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

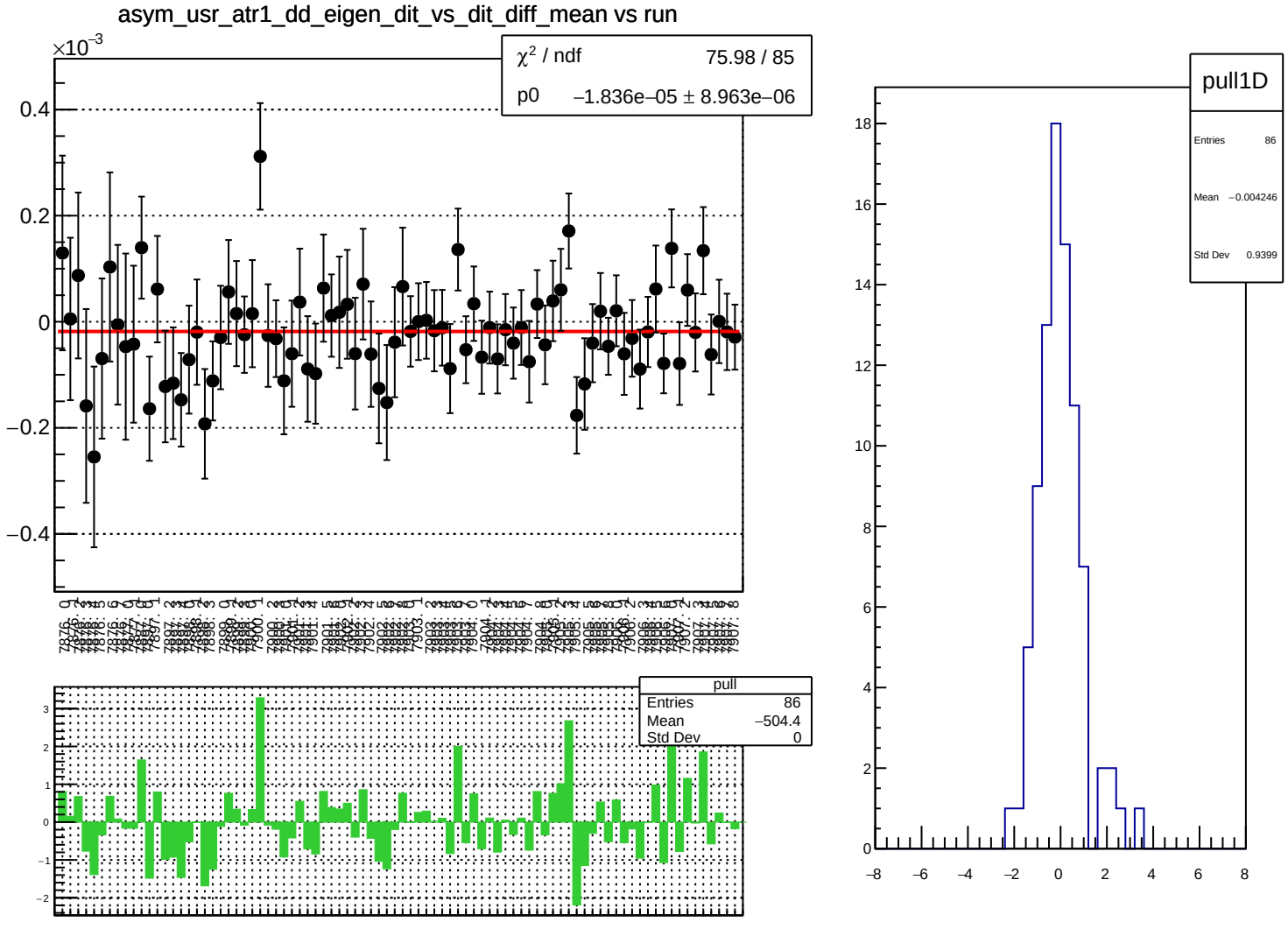

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.88 / 85
p0 0.1395 ± 0.1205
pull
Entries 86
Mean 22.71
Std Dev 28.28

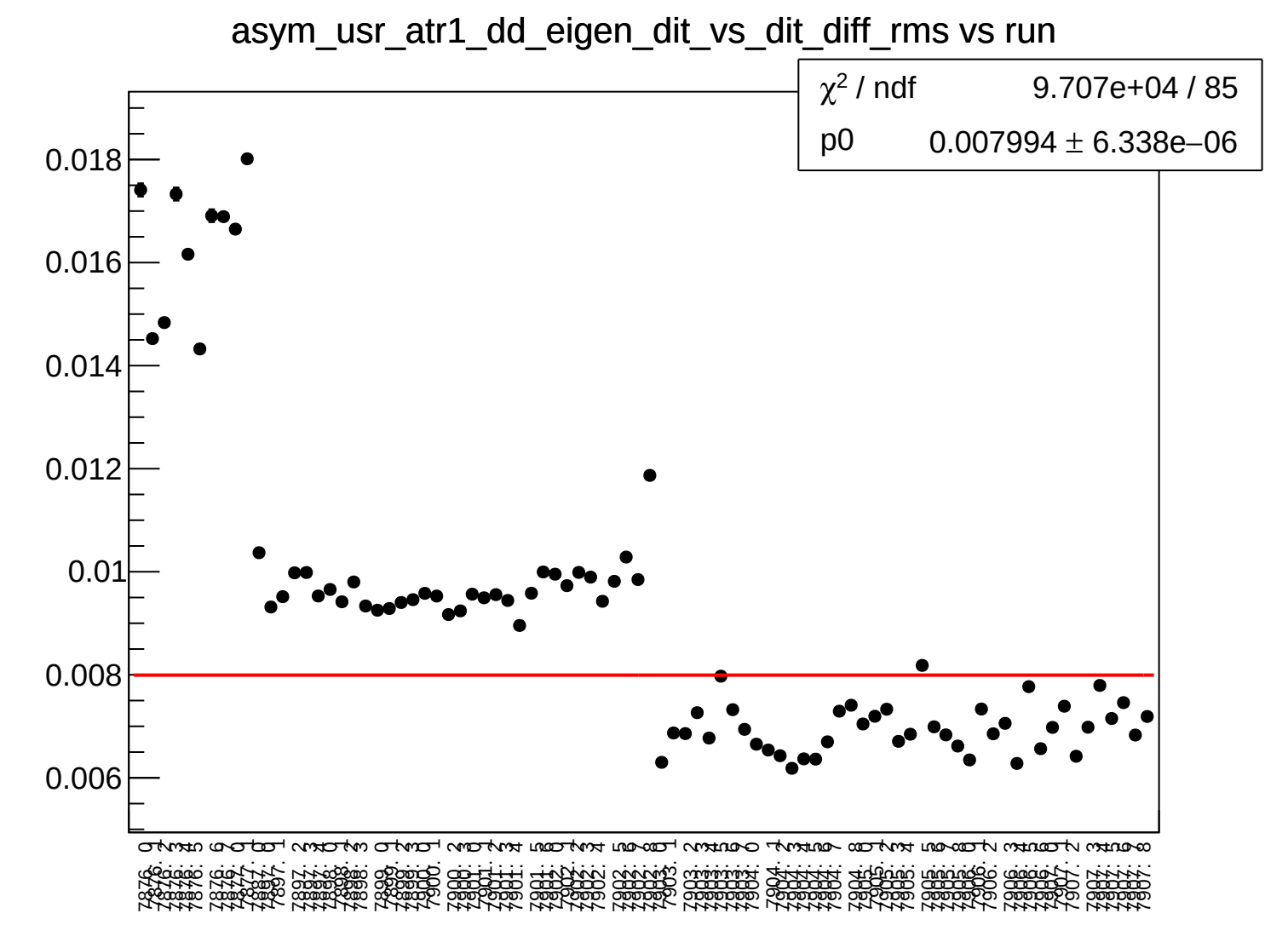

pull1D
Entries 86
Mean 0.04609
Std Dev 0.9382

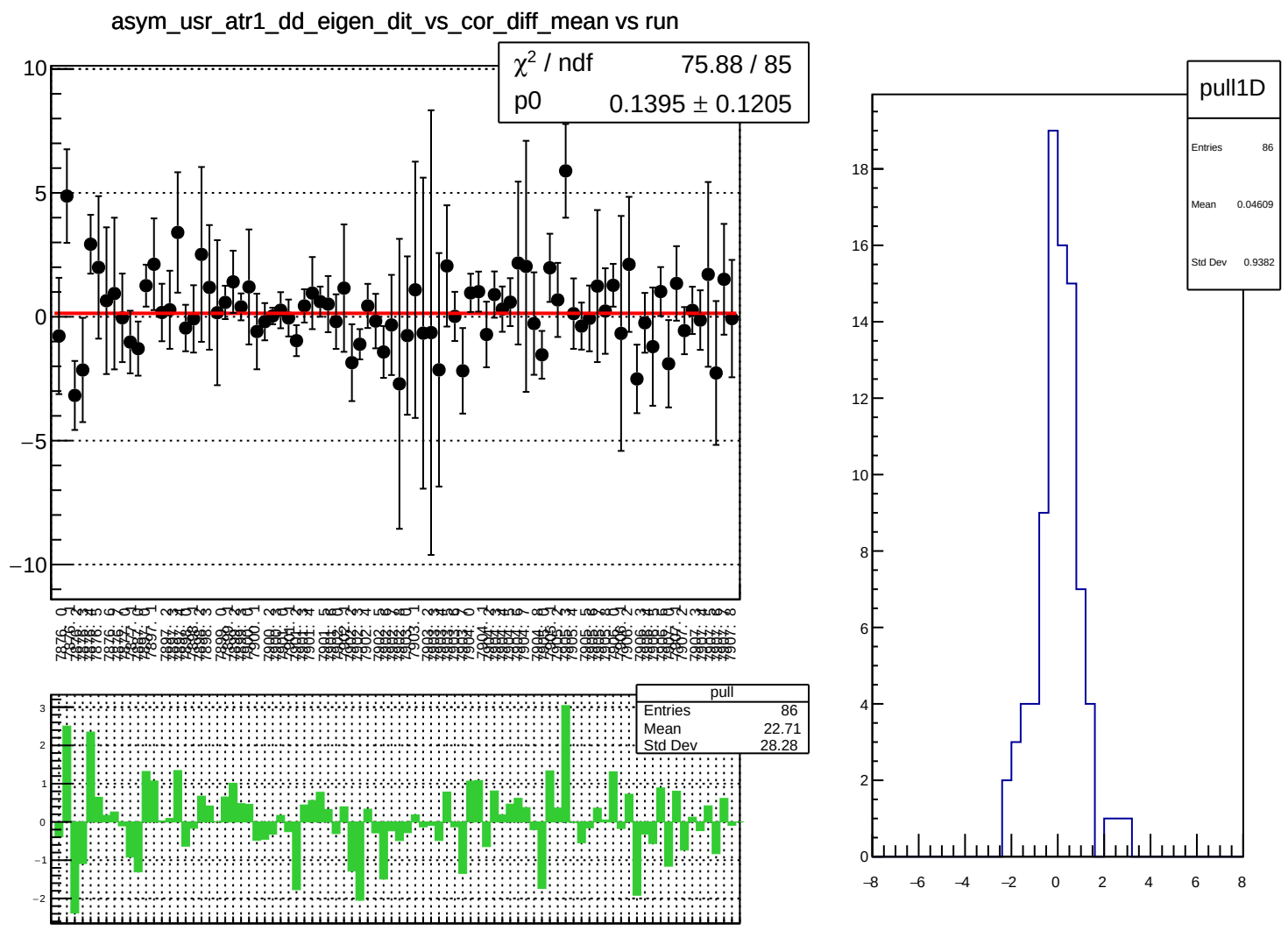

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.398e+05 / 85
p0 95.21 ± 0.08522
900
800
700
600
500
400
300
200
100

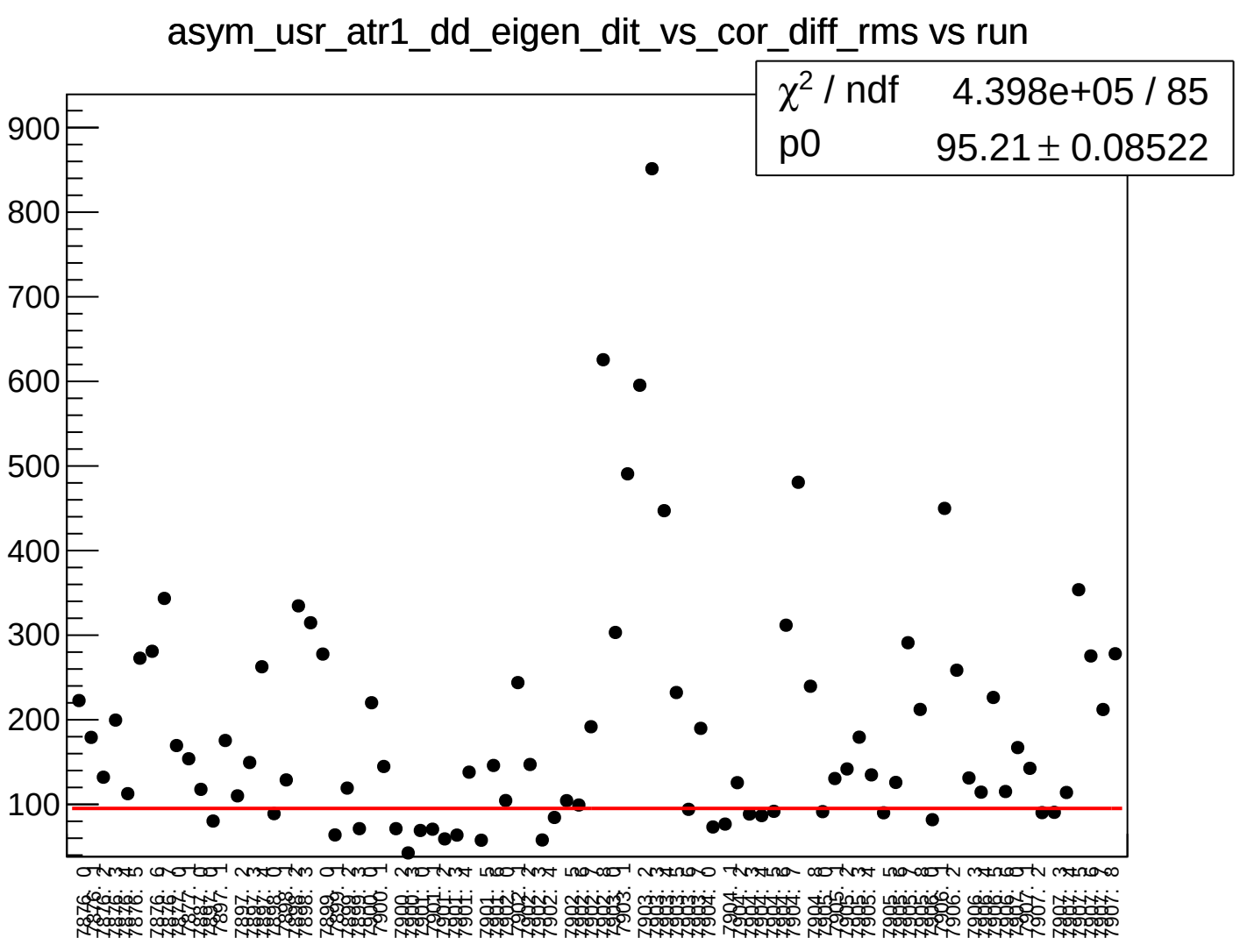

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.88 / 85
p0 0.1395 ± 0.1205
pull
Entries 86
Mean 22.71
Std Dev 28.28
pull1D
Entries 86
Mean 0.04609
Std Dev 0.9382

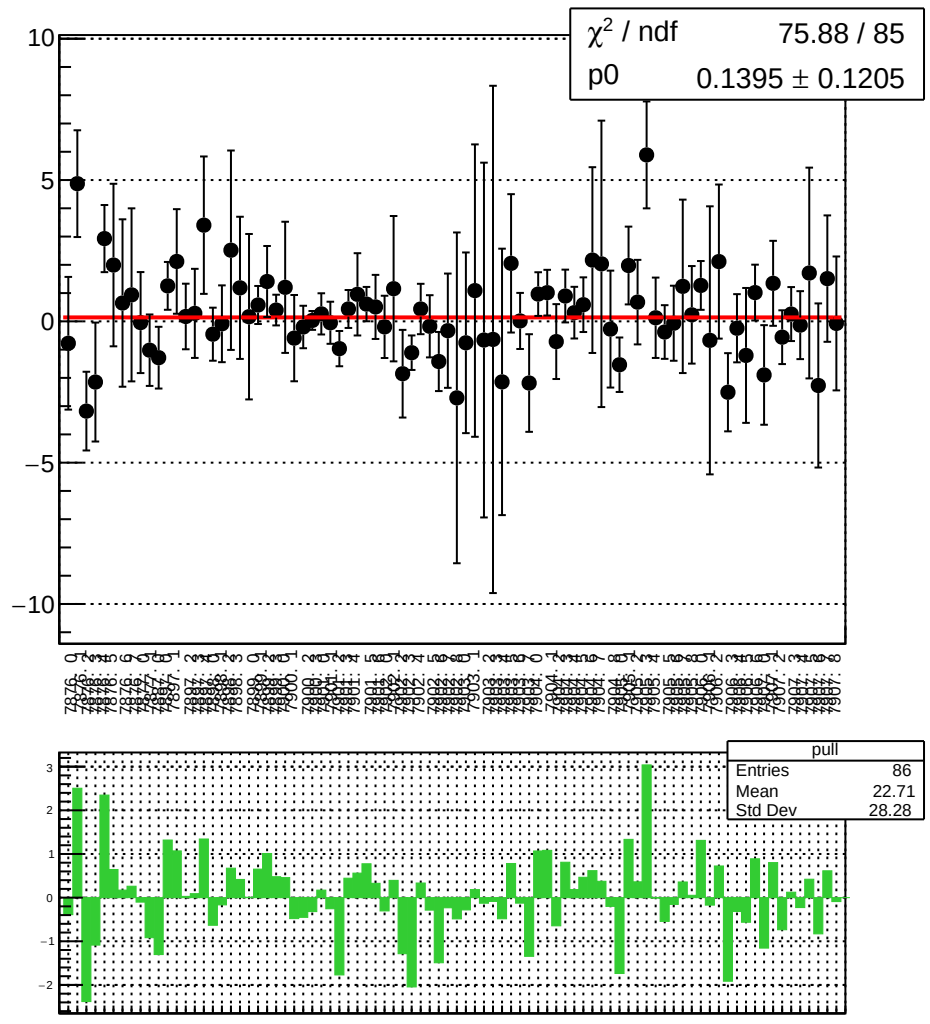

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.398e+05 / 85
p0 95.21 ± 0.08522
900
800
700
600
500
400
300
200
100

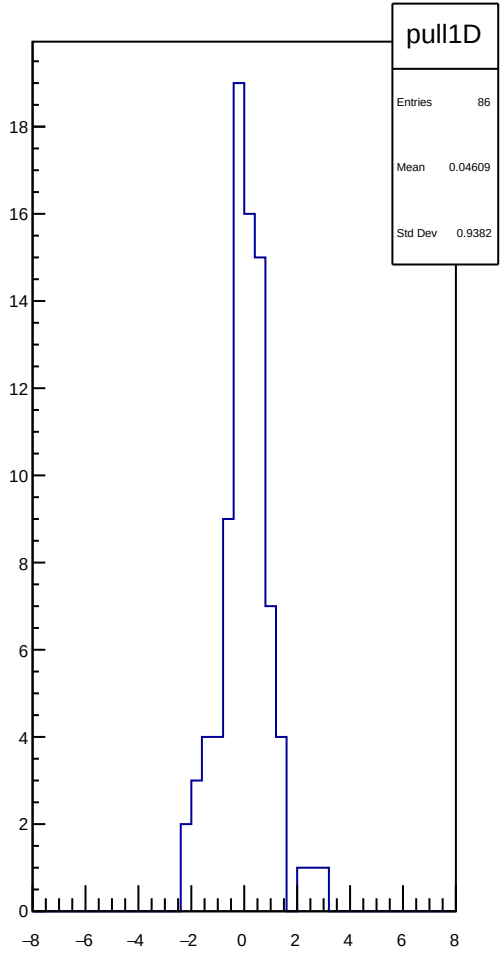

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.98 / 85
p0 −1.836e−05 ± 8.963e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 86
Mean −504.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.004246
Std Dev 0.9399
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

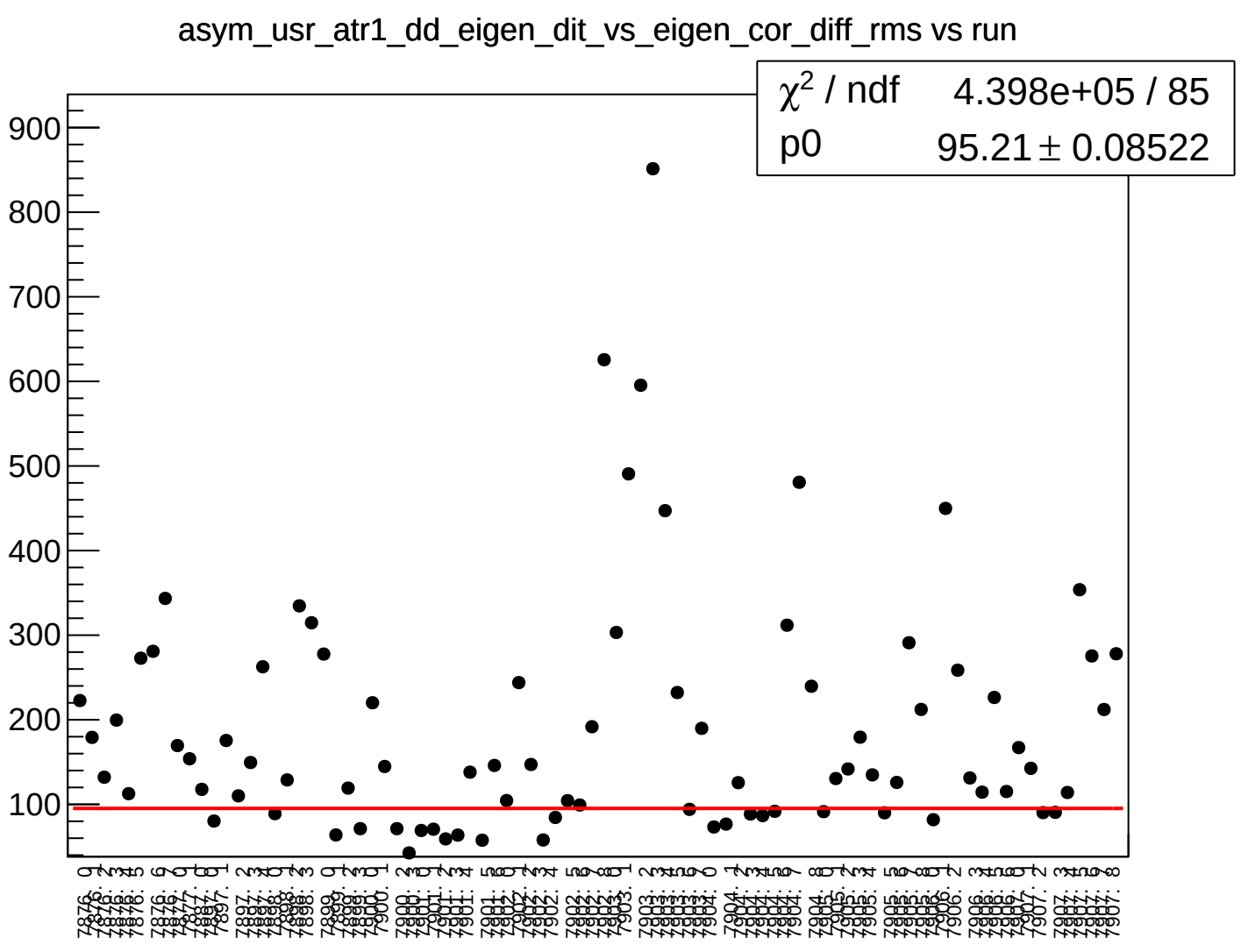

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.707e+04 / 85
p0 0.007994 ± 6.338e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

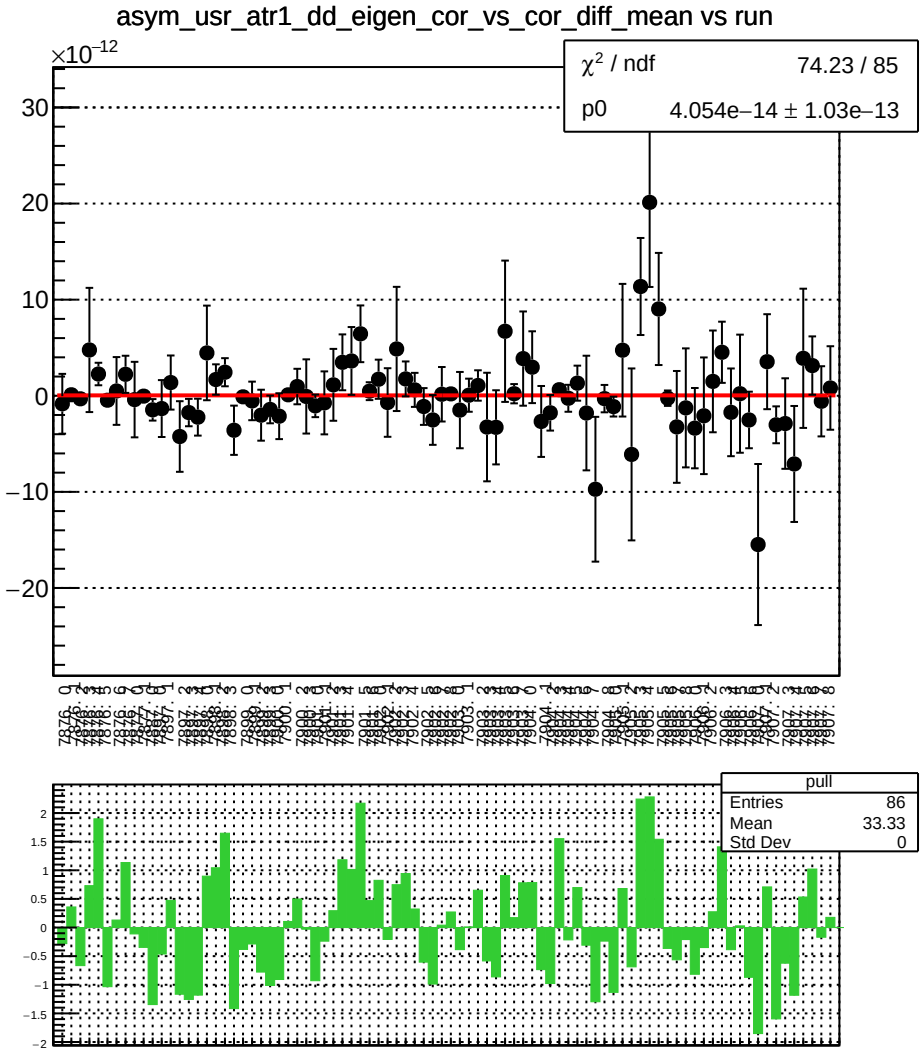

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.88 / 85
p0 0.1395 ± 0.1205
pull
Entries 86
Mean 22.71
Std Dev 28.28
pull1D
Entries 86
Mean 0.04609
Std Dev 0.9382

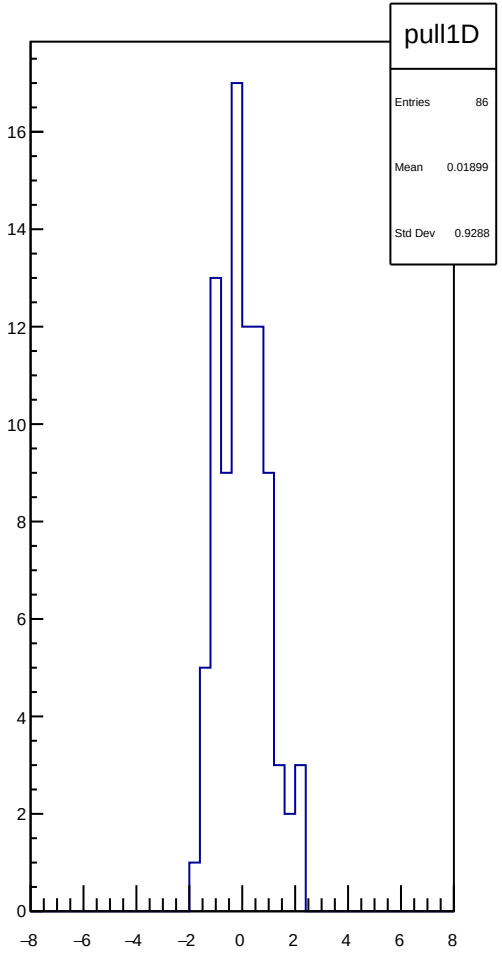

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.398e+05 / 85
p0 95.21 ± 0.08522
900
800
700
600
500
400
300
200
100

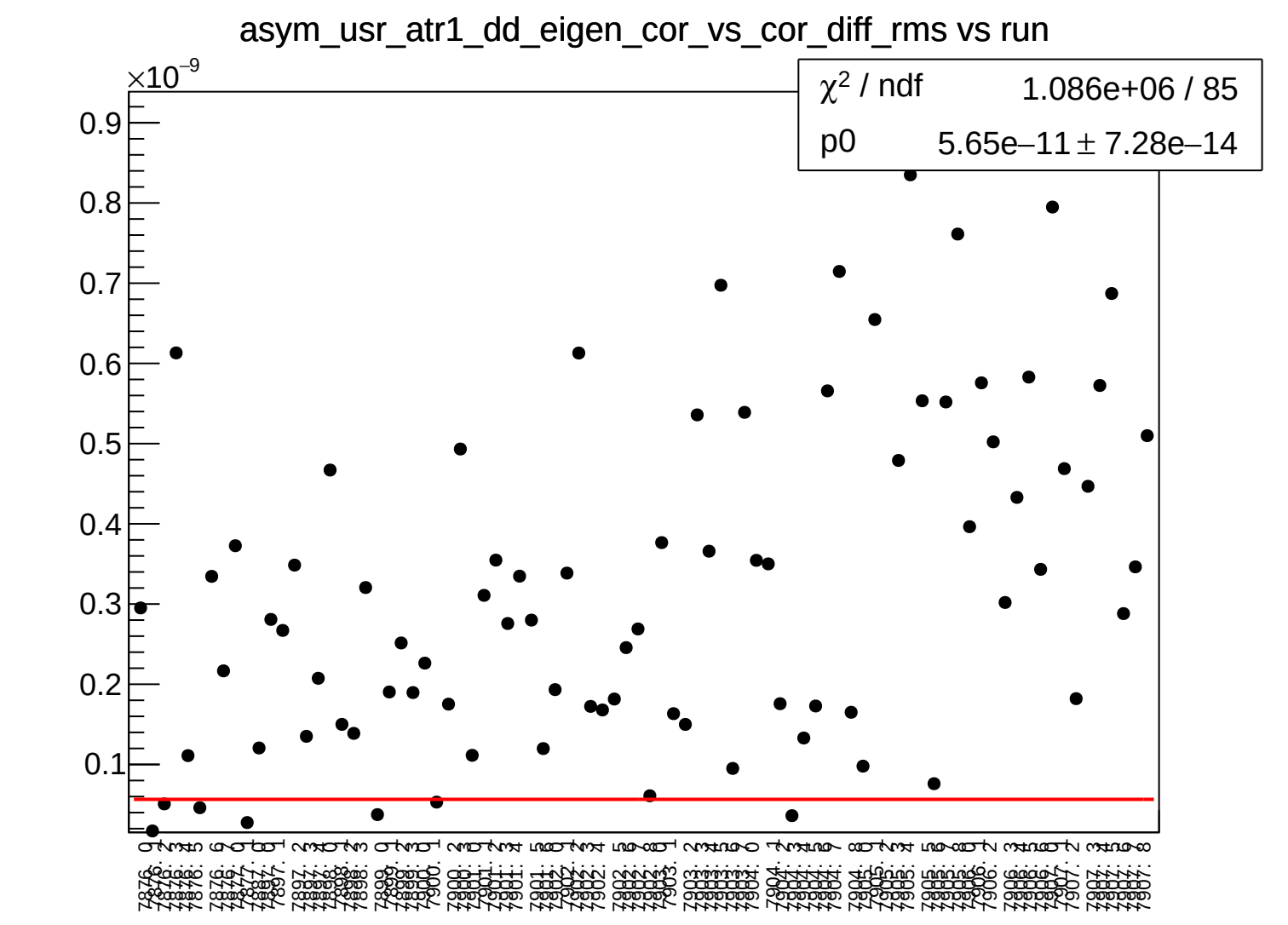

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.88 / 85
p0 0.1395 ± 0.1205
pull
Entries 86
Mean 22.71
Std Dev 28.28

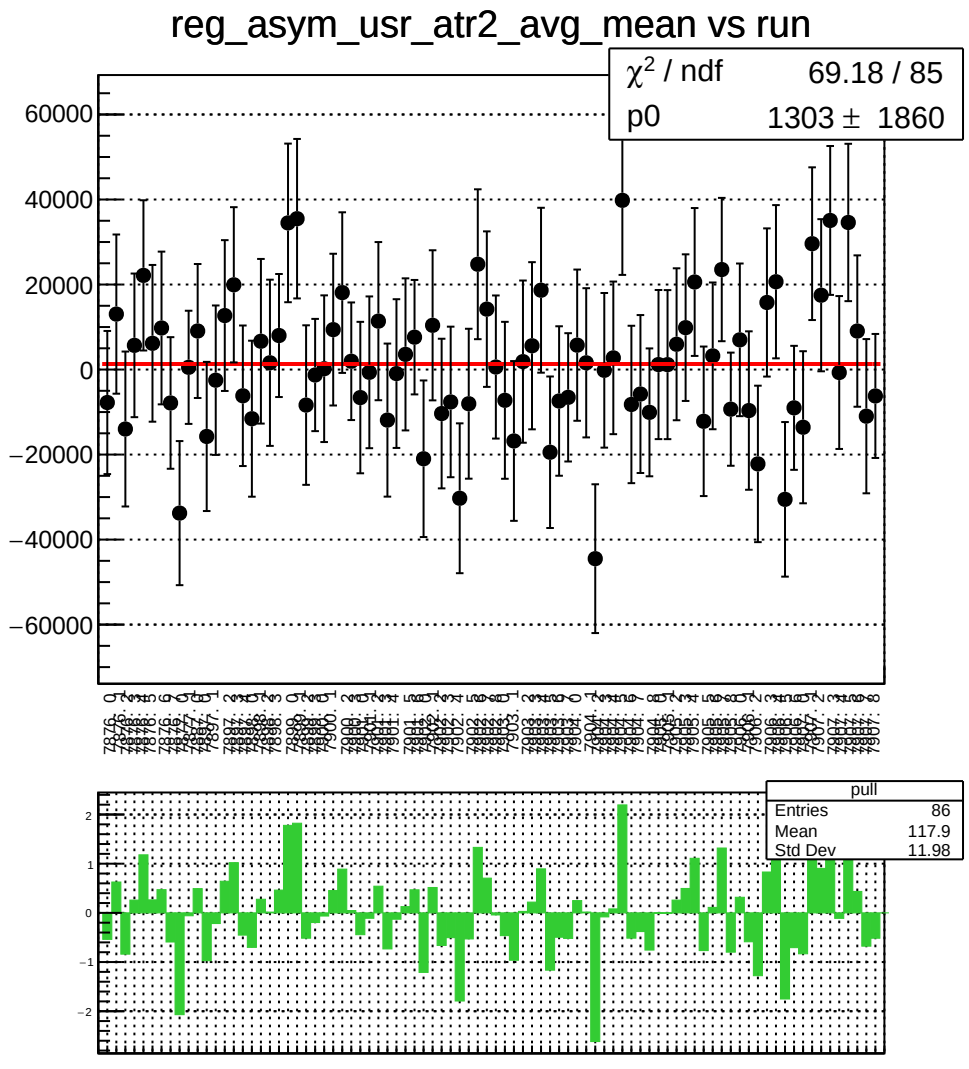

pull1D
Entries 86
Mean 0.04609
Std Dev 0.9382

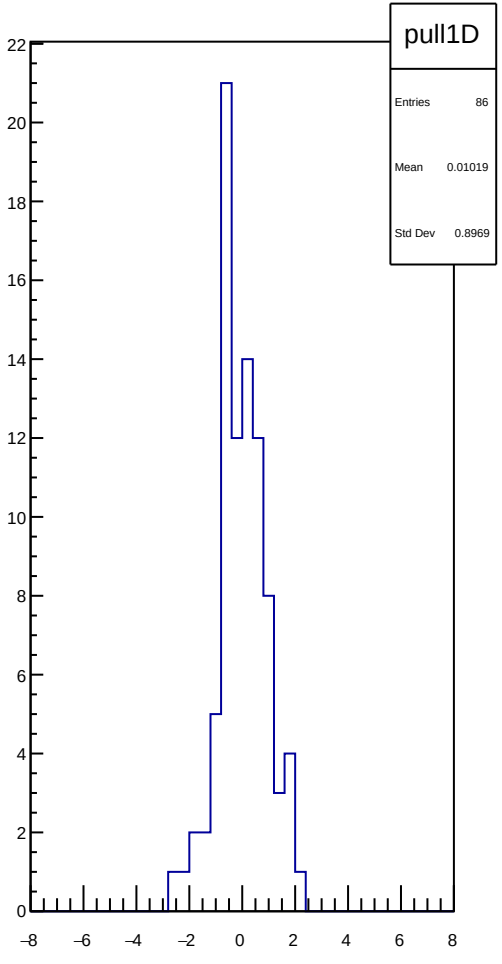

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.398e+05 / 85
p0 95.21 ± 0.08522
900
800
700
600
500
400
300
200
100

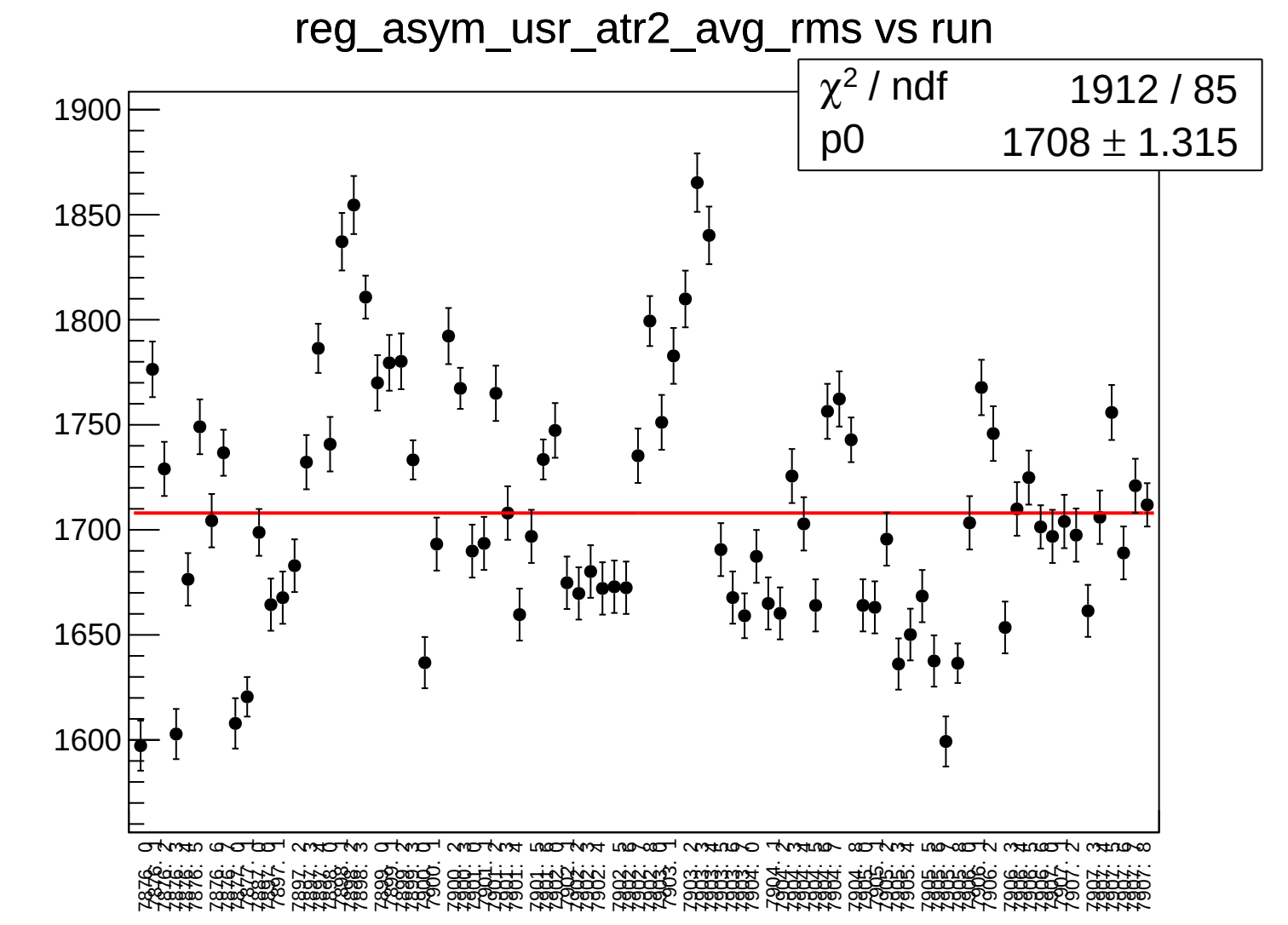

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.23 / 85
p0 4.054e−14 ± 1.03e−13
pull
Entries 86
Mean 33.33
Std Dev 0

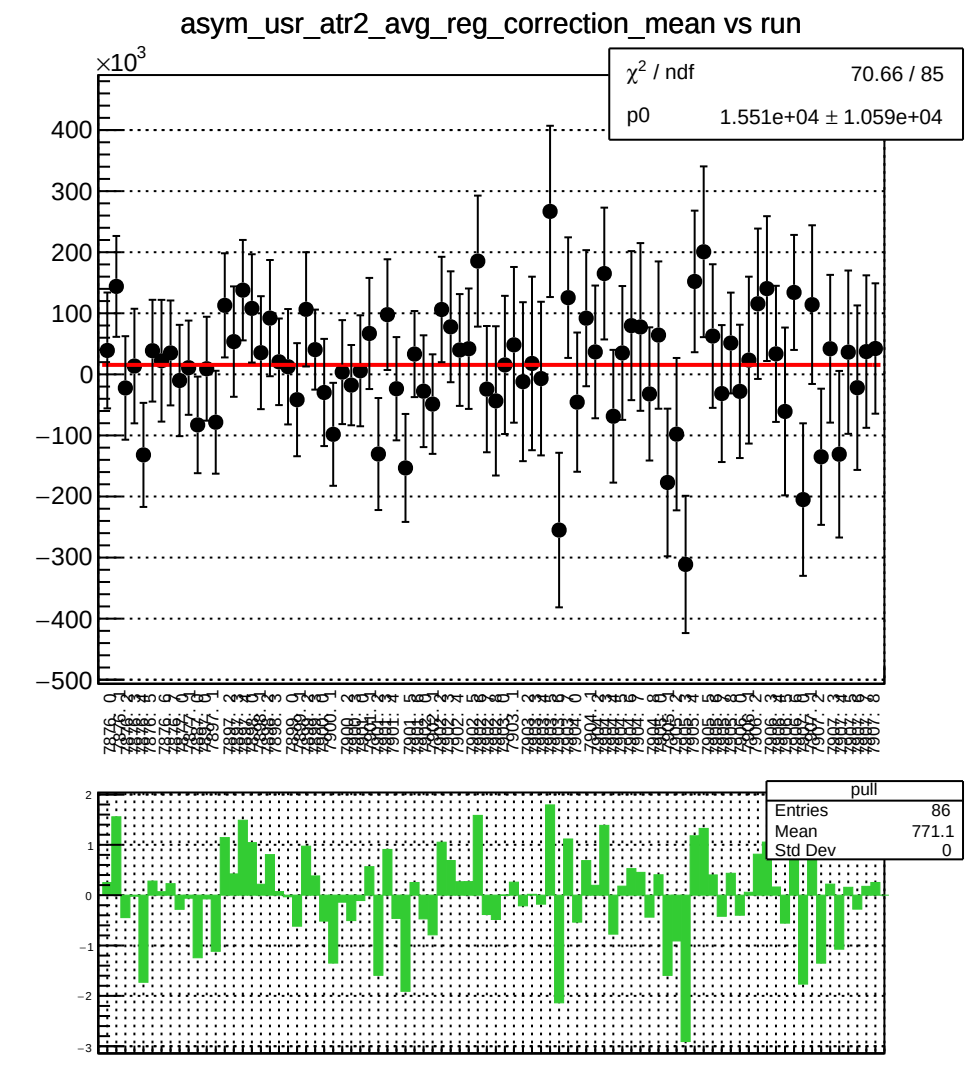

pull1D
Entries 86
Mean 0.01899
Std Dev 0.9288

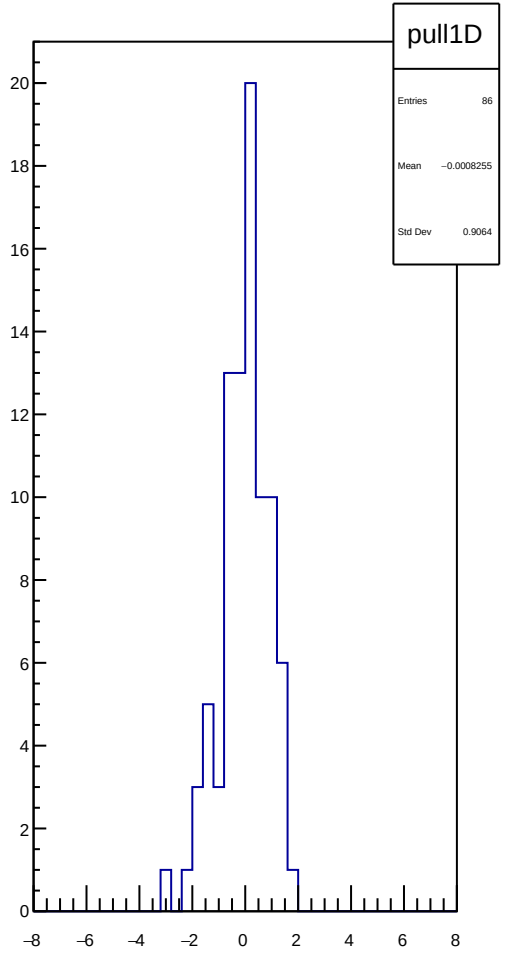

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.086e+06 / 85
p0 5.65e−11 ± 7.28e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

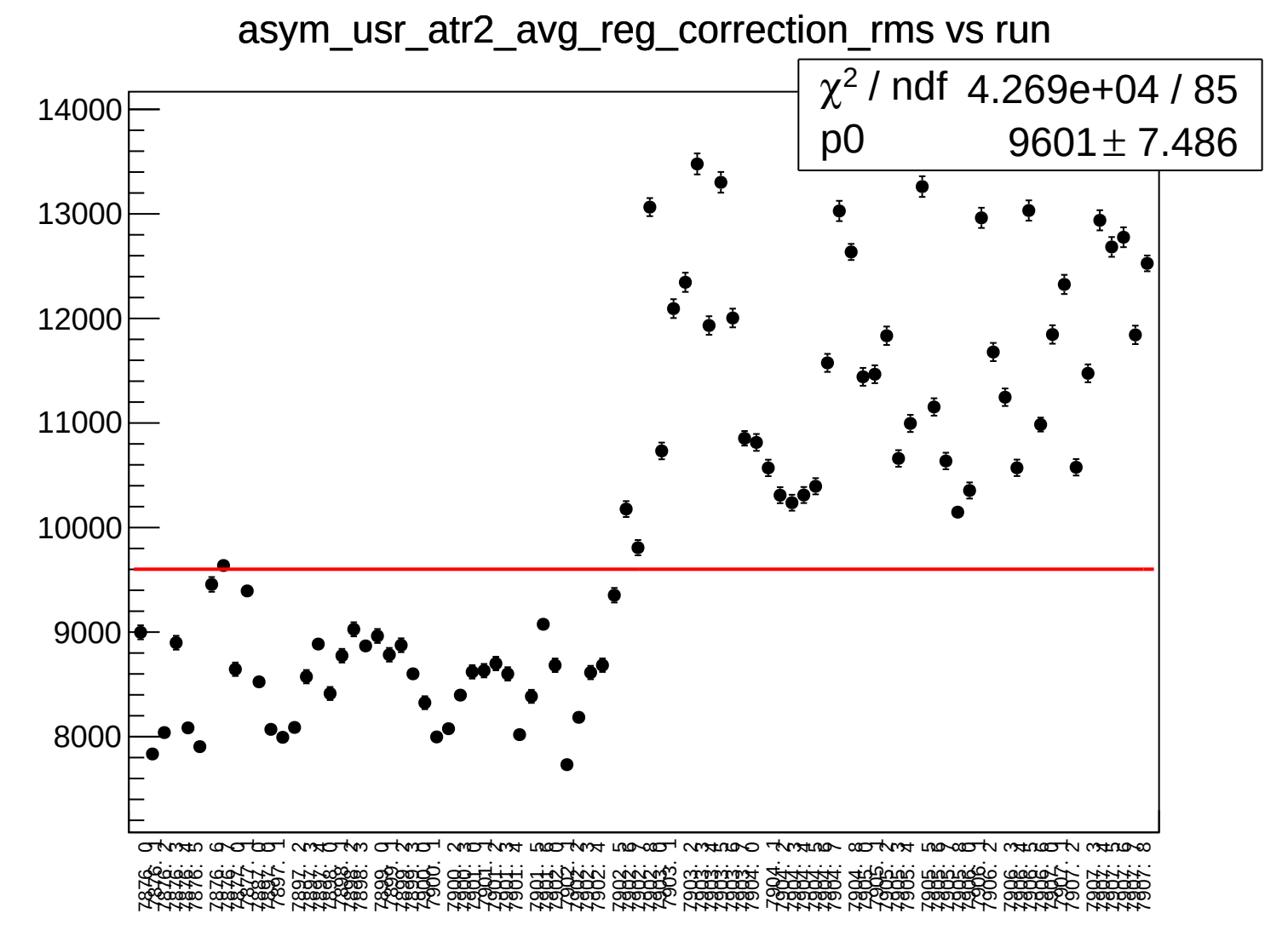

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 69.18 / 85
p0 1303 ± 1860
pull
Entries 86
Mean 117.9
Std Dev 11.98

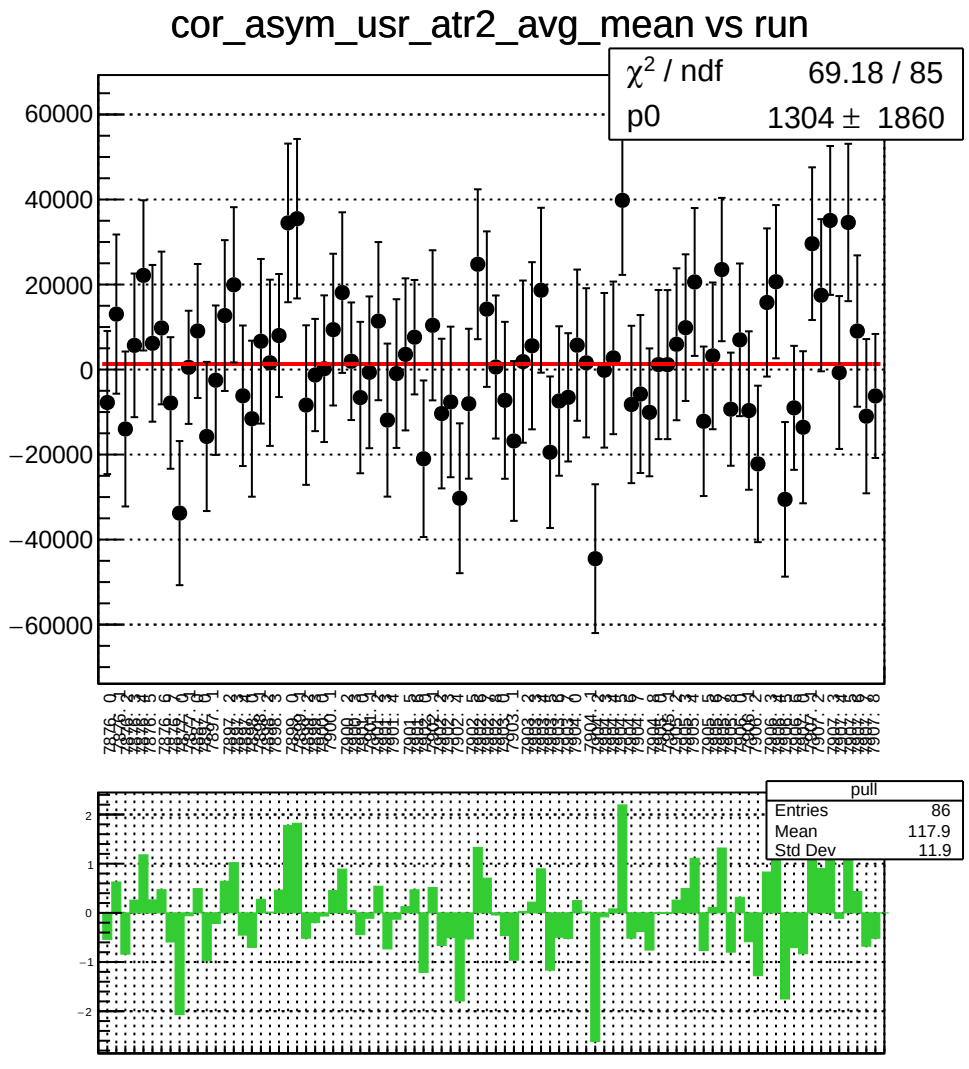

pull1D
Entries 86
Mean 0.01019
Std Dev 0.8969

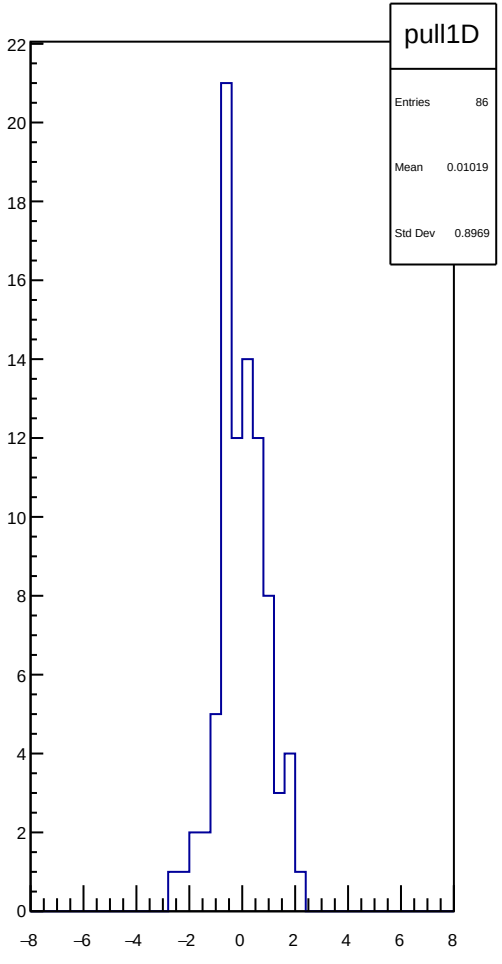

reg_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 1912 / 85
p0 1708 ± 1.315
1900
1850
1800
1750
1700
1650
1600

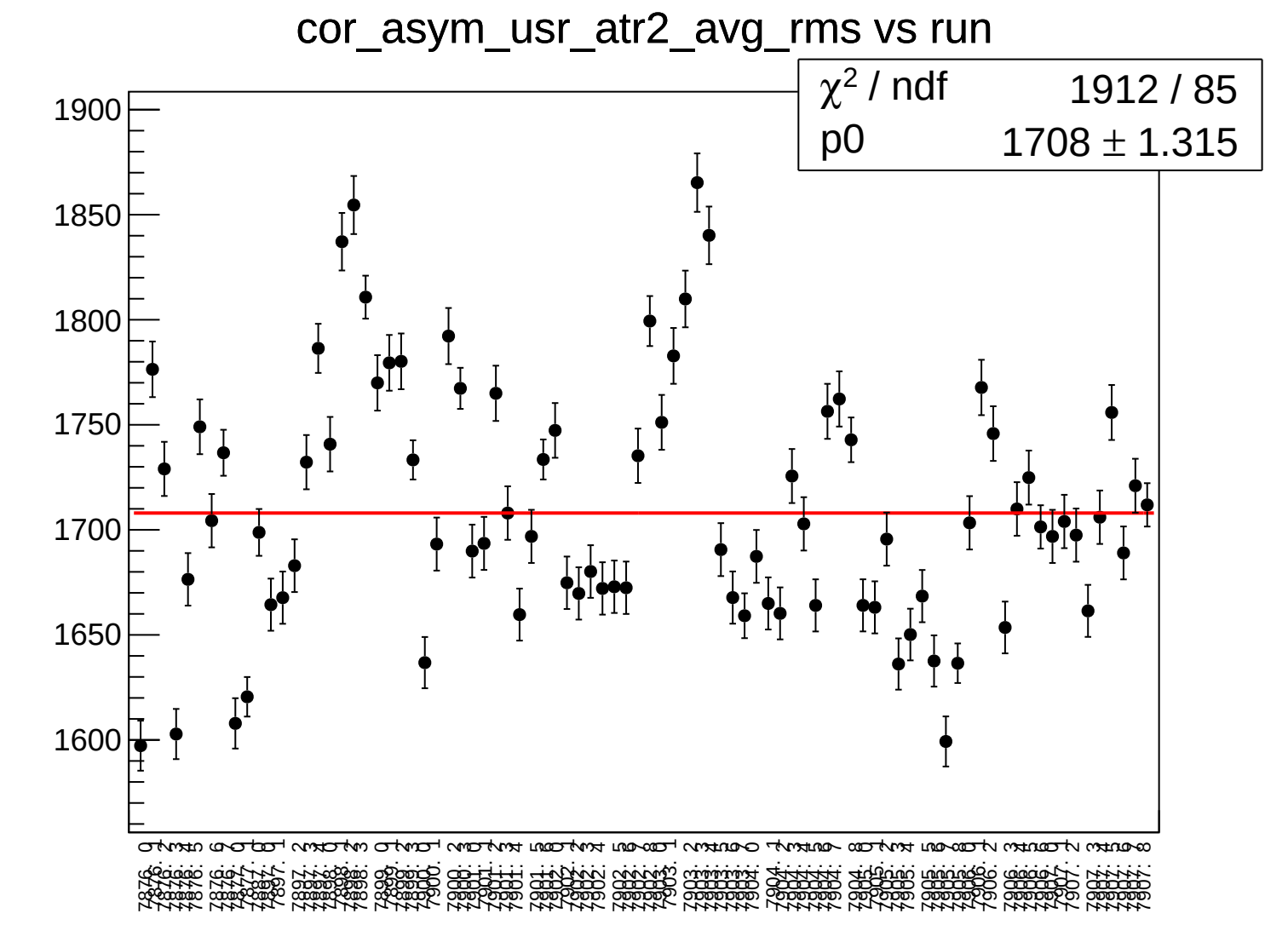

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 70.66 / 85
p0 1.551e+04 ± 1.059e+04
pull
Entries 86
Mean 771.1
Std Dev 0

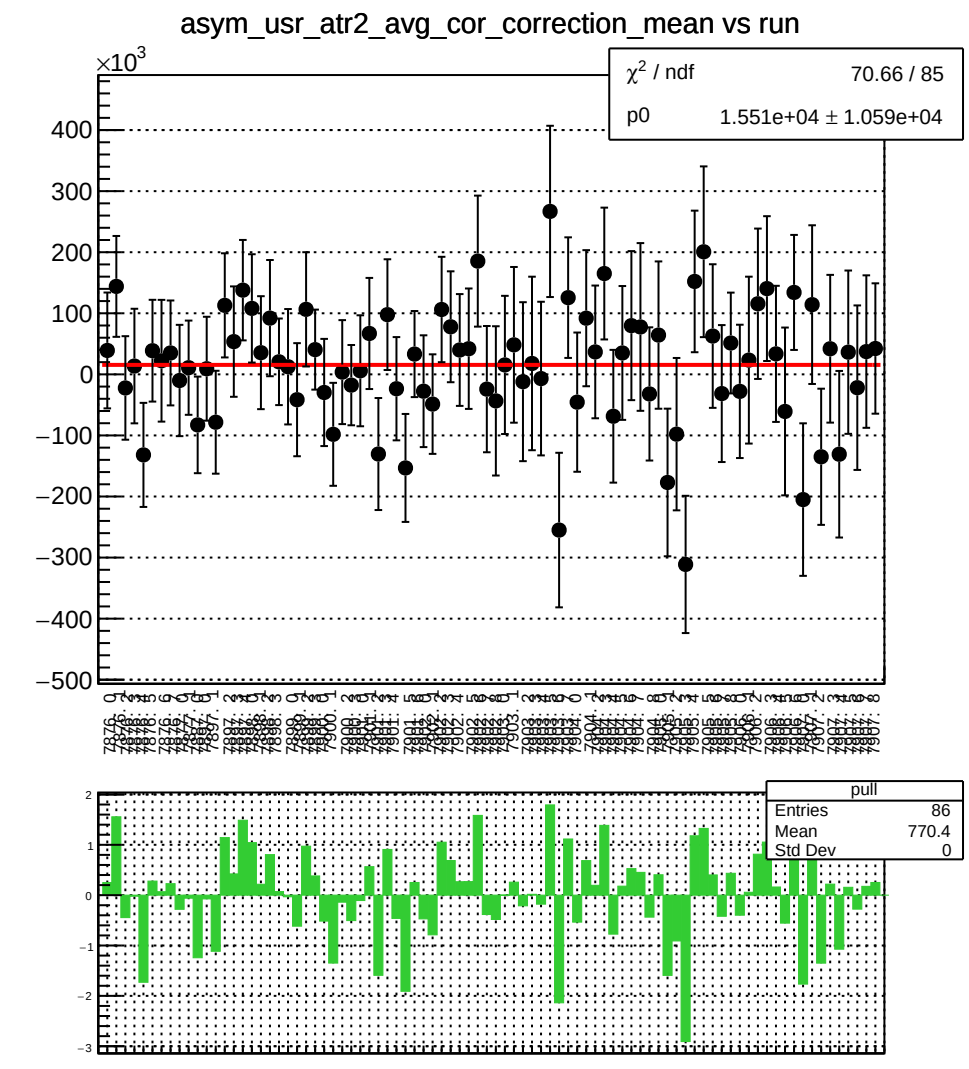

pull1D
Entries 86
Mean −0.0008255
Std Dev 0.9064

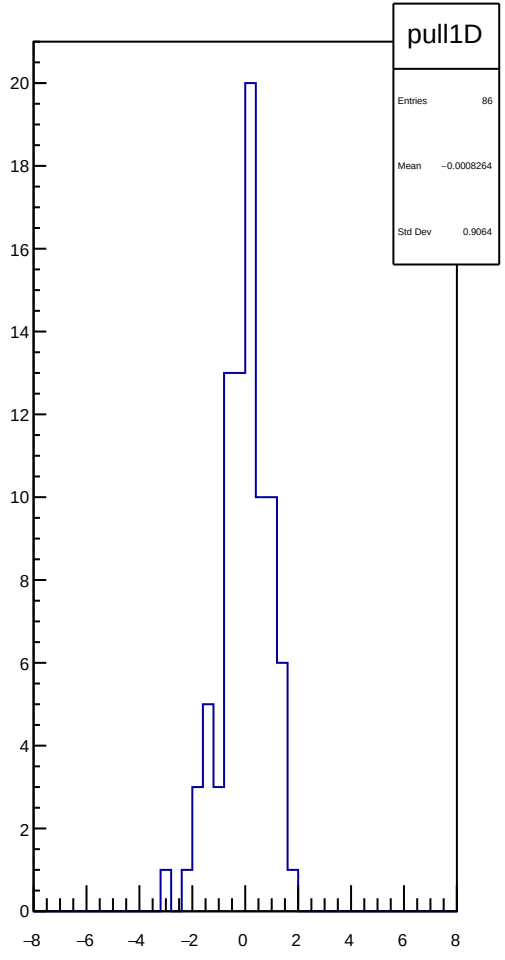

asym_usr_atr2_avg_reg_correction_rms vs run
χ^2 / ndf 4.269e+04 / 85
p0 9601 ± 7.486
14000
13000
12000
11000
10000
9000
8000

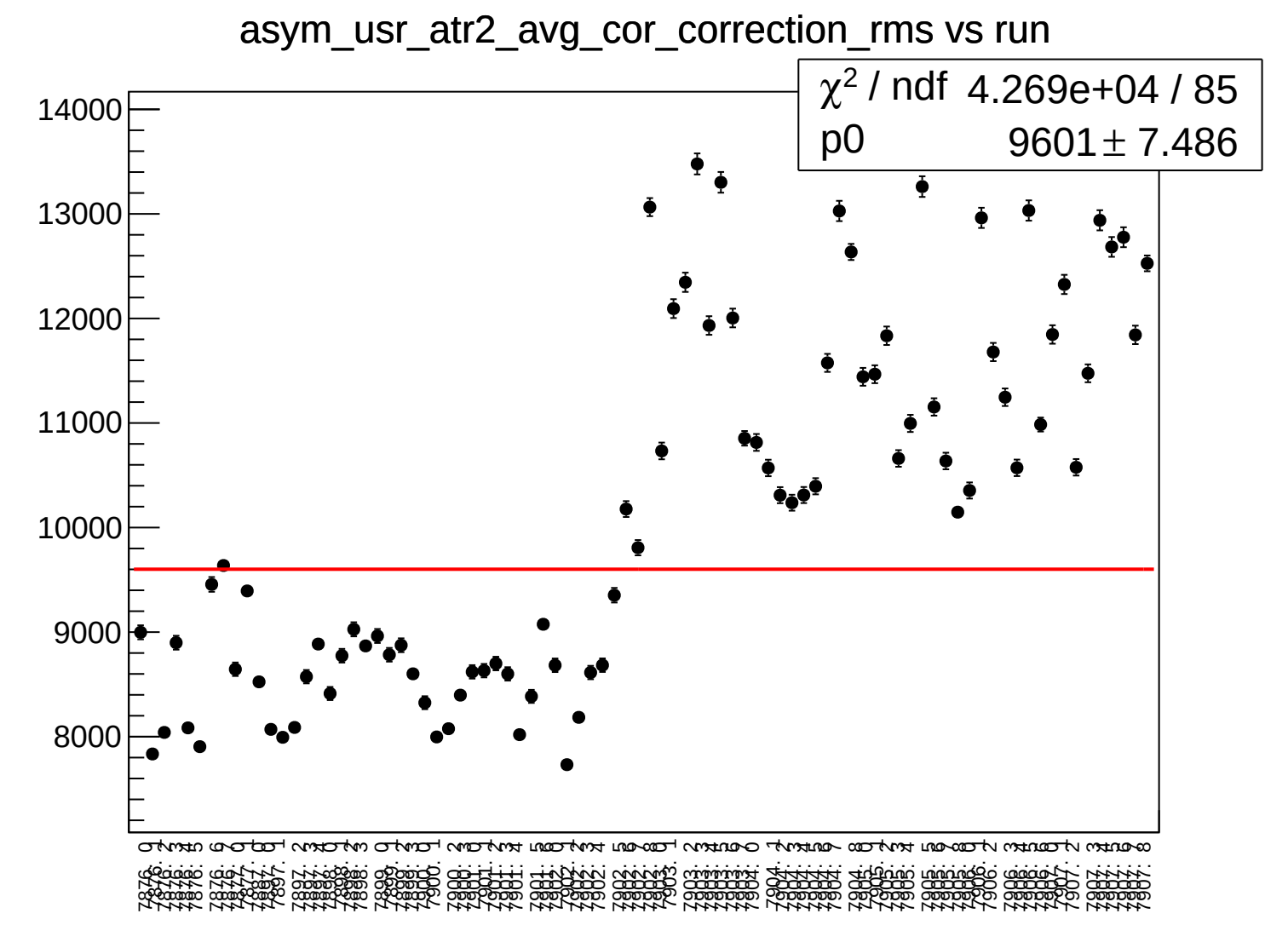

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 69.18 / 85
p0 1304 ± 1860
pull
Entries 86
Mean 117.9
Std Dev 11.9

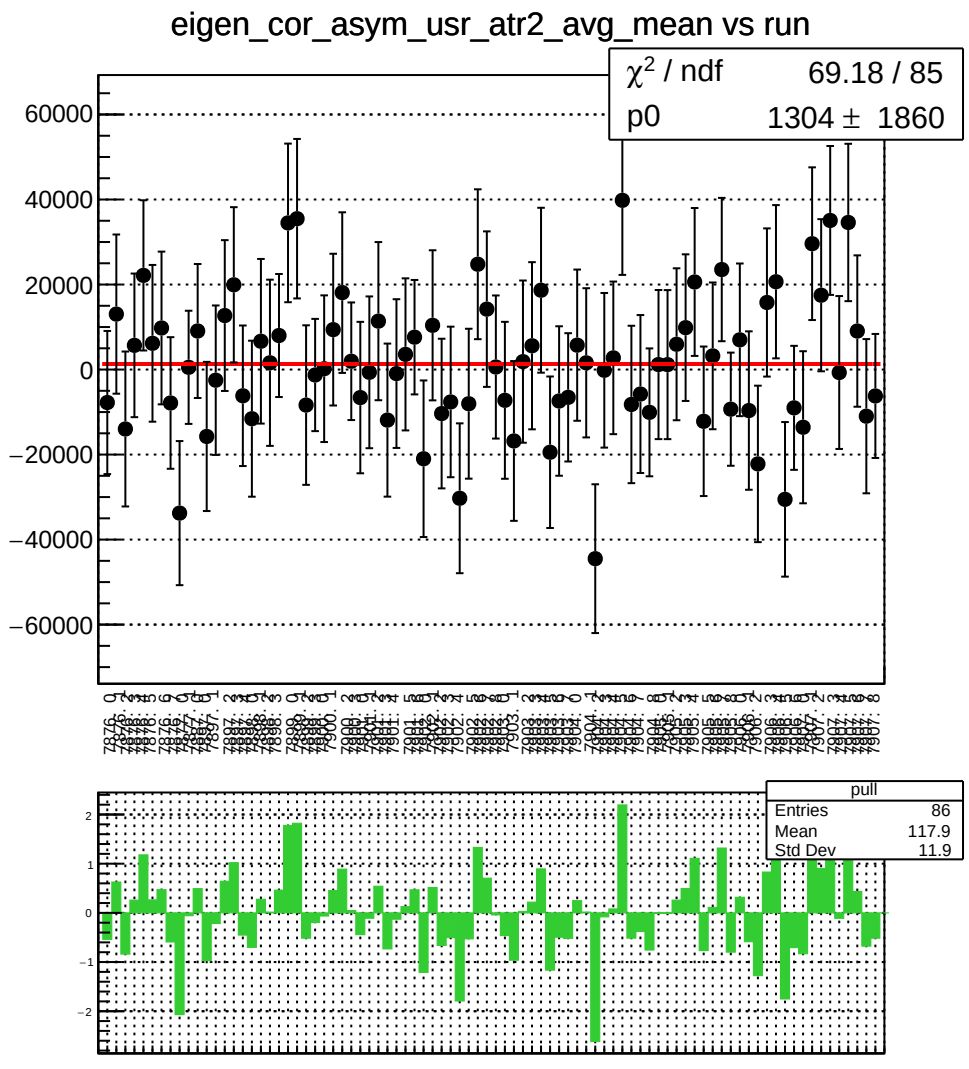

pull1D
Entries 86
Mean 0.01019
Std Dev 0.8969

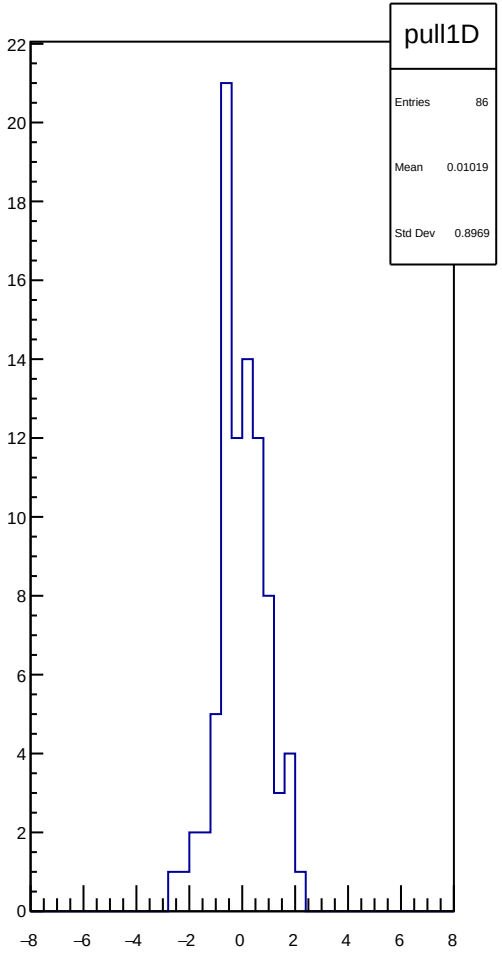

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1912 / 85
p0 1708 ± 1.315
1900
1850
1800
1750
1700
1650
1600

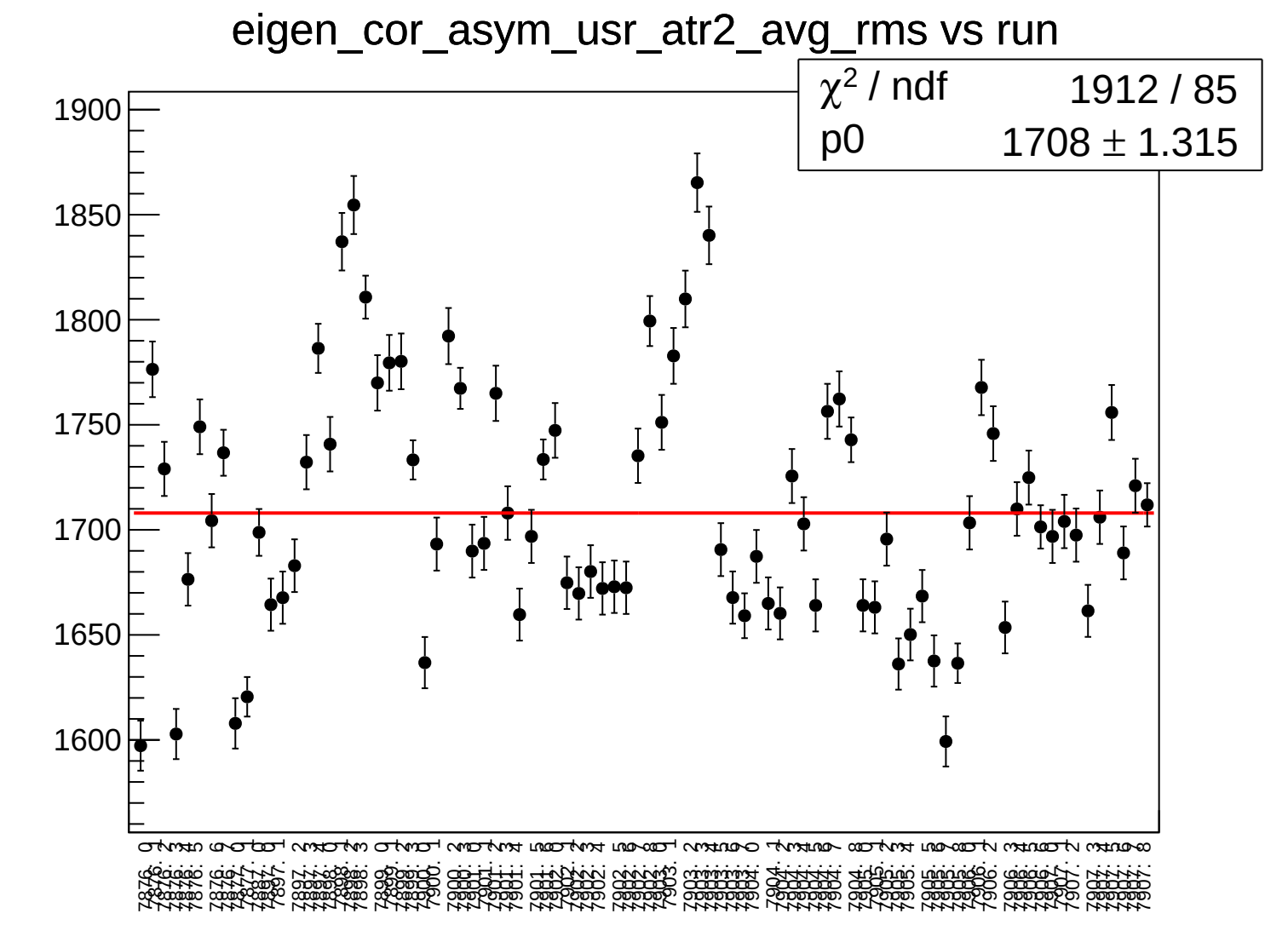

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 70.66 / 85
p0 1.551e+04 ± 1.059e+04
pull
Entries 86
Mean 770.4
Std Dev 0

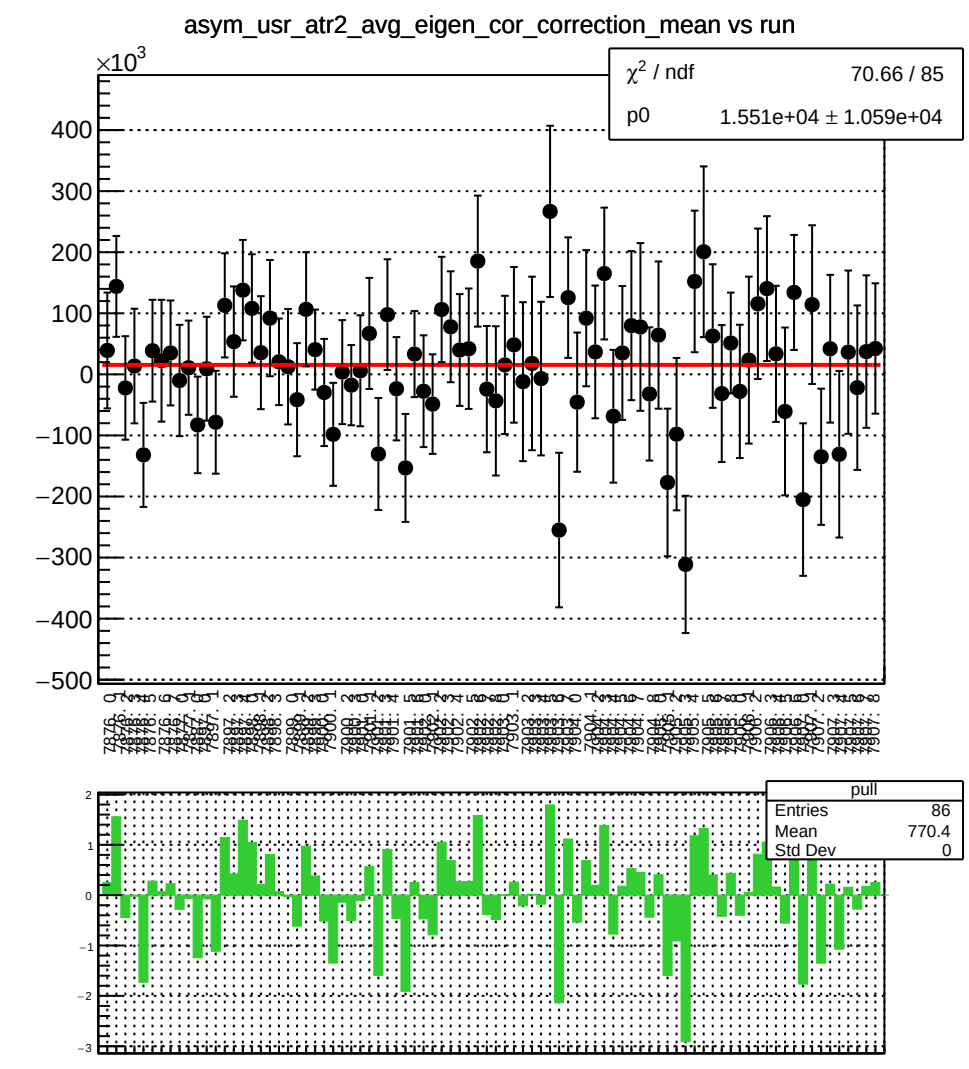

pull1D
Entries 86
Mean −0.0008264
Std Dev 0.9064

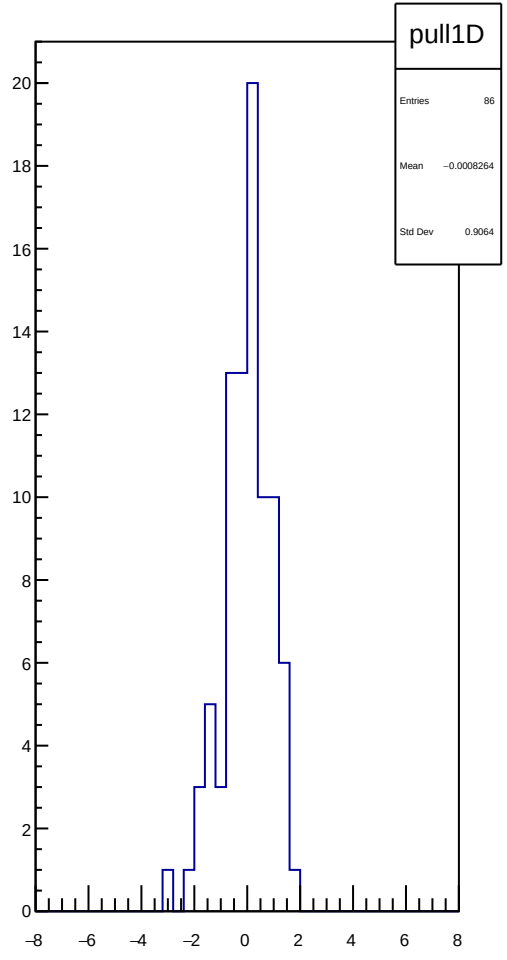

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 4.269e+04 / 85
p0 9601 ± 7.486
14000
13000
12000
11000
10000
9000
8000

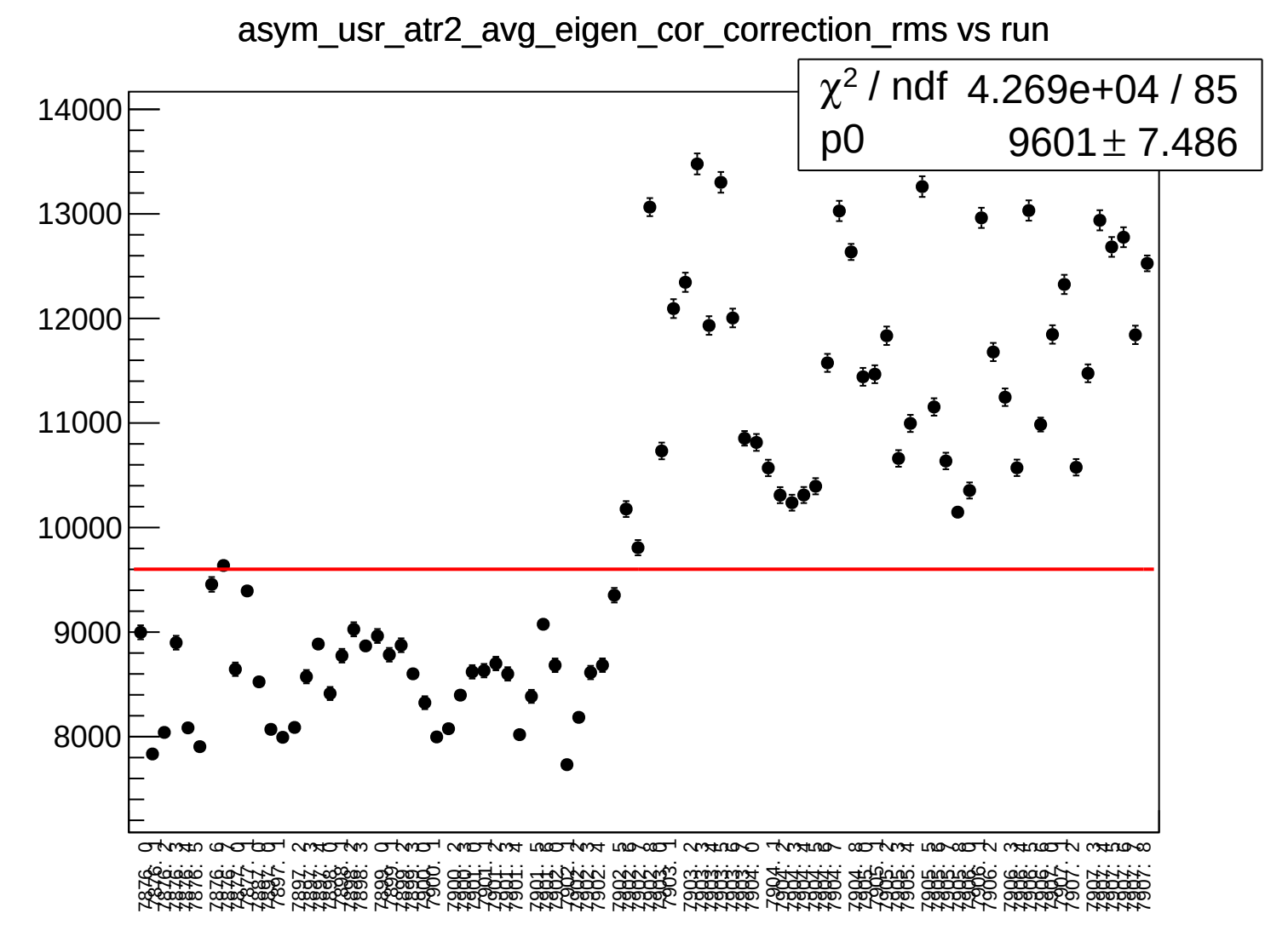

eigen_cor_asym_usr_atr2_avg_mean vs run
χ^2 / ndf 69.18 / 85
p0 1304 ± 1860
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 117.9
Std Dev 11.9
2
1
0
−1
−2

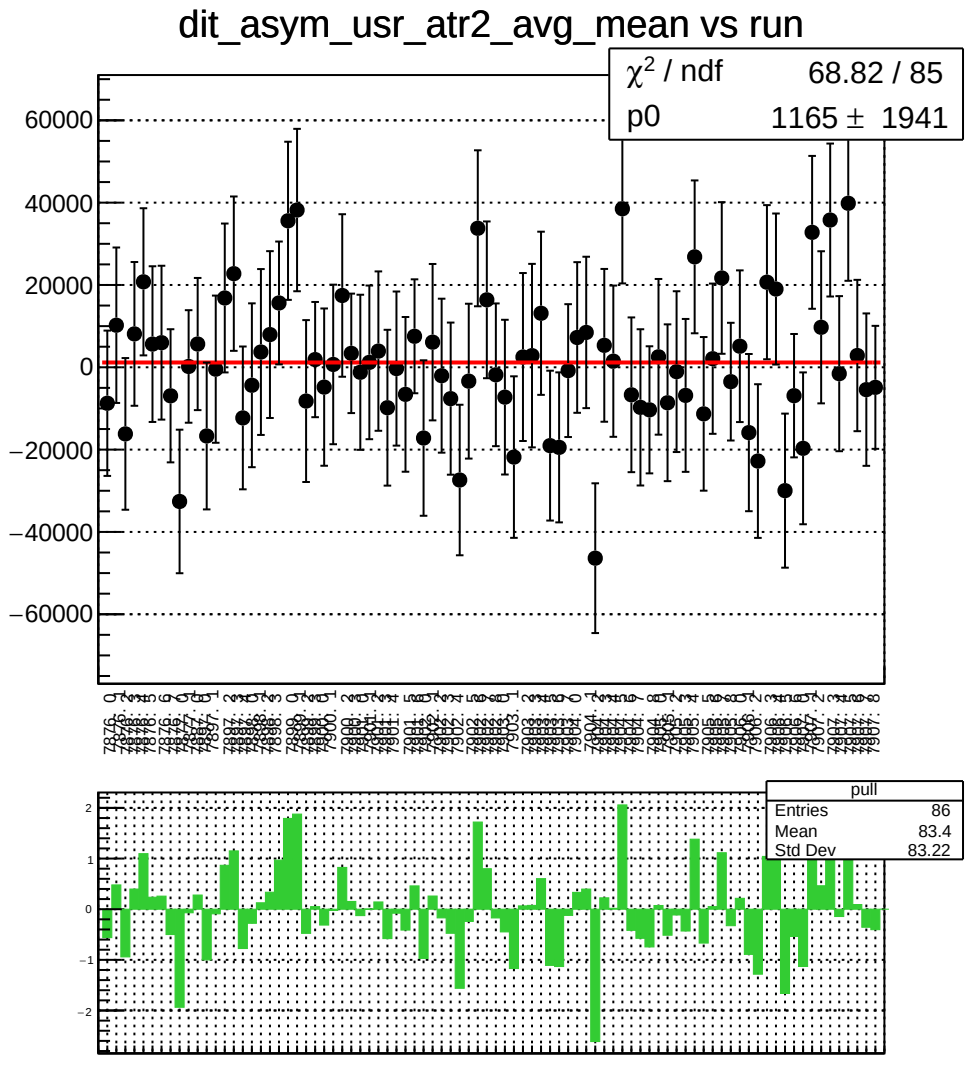

pull1D
Entries 86
Mean 0.01019
Std Dev 0.8969
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

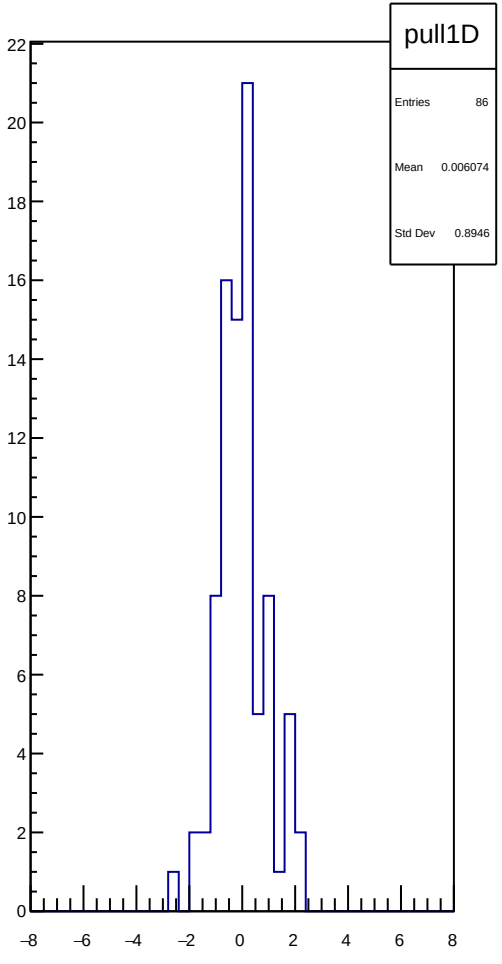

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1912 / 85
p0 1708 ± 1.315
1900
1850
1800
1750
1700
1650
1600

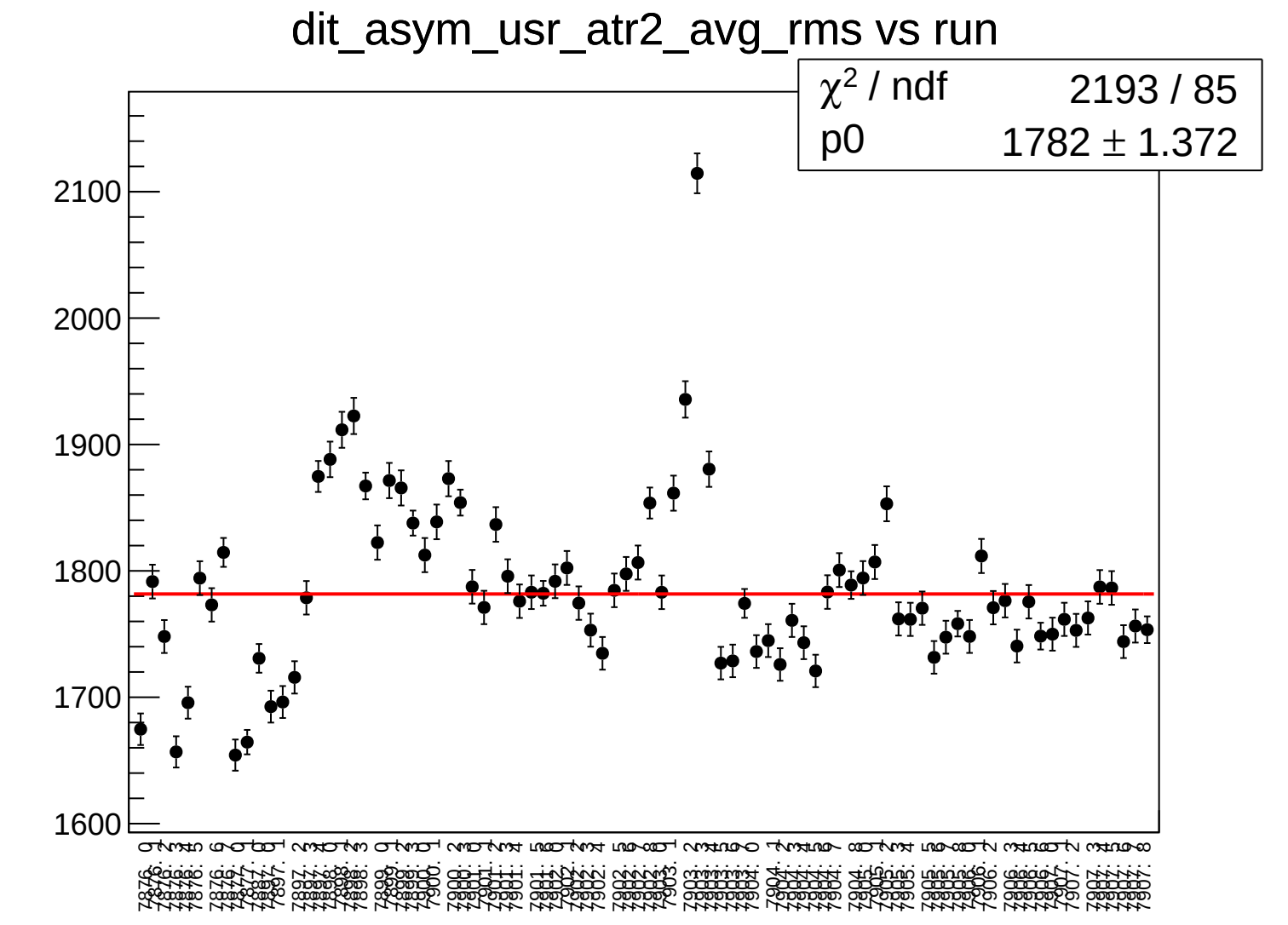

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.66 / 85
p0 1.551e+04 ± 1.059e+04
pull
Entries 86
Mean 770.4
Std Dev 0

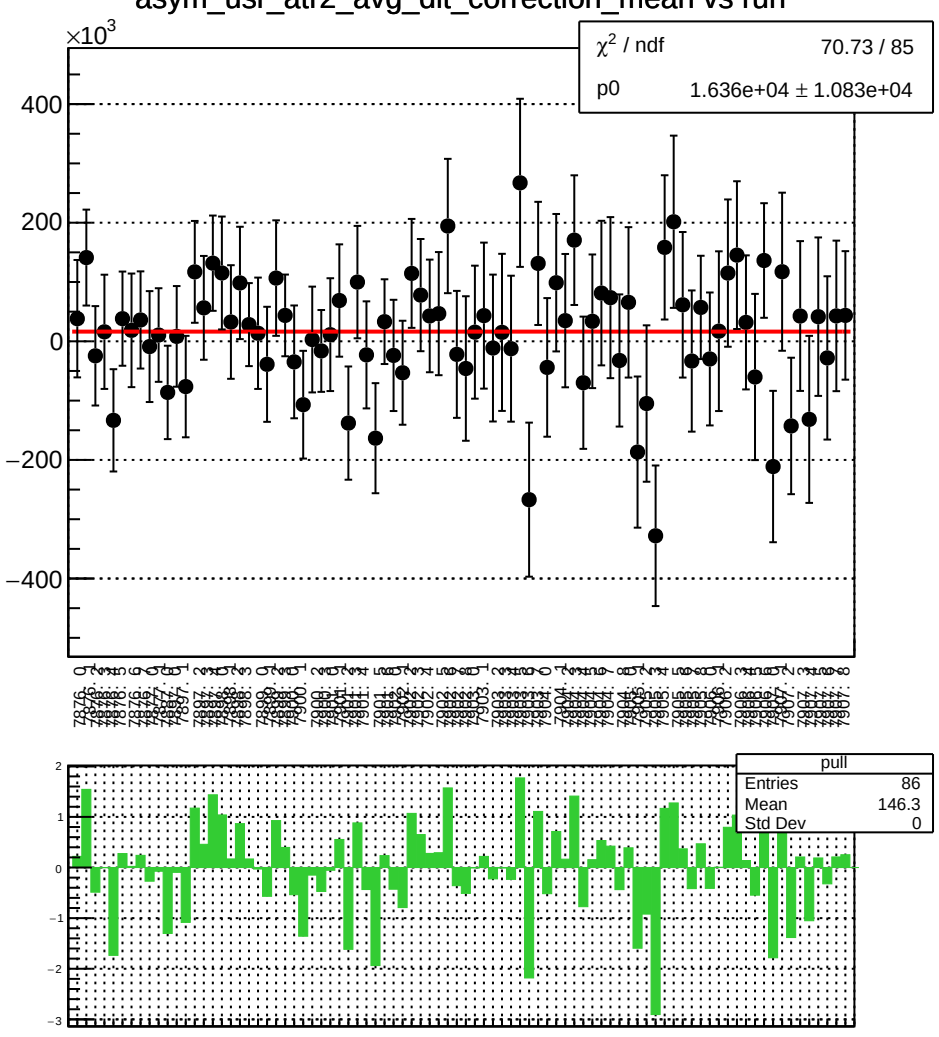

pull1D
Entries 86
Mean −0.0008264
Std Dev 0.9064

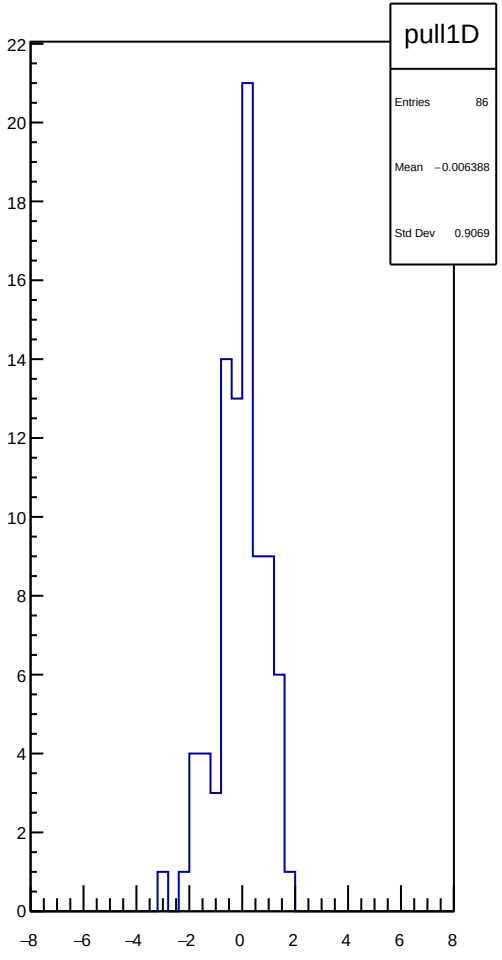

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4.269e+04 / 85
p0 9601 ± 7.486
14000
13000
12000
11000
10000
9000
8000

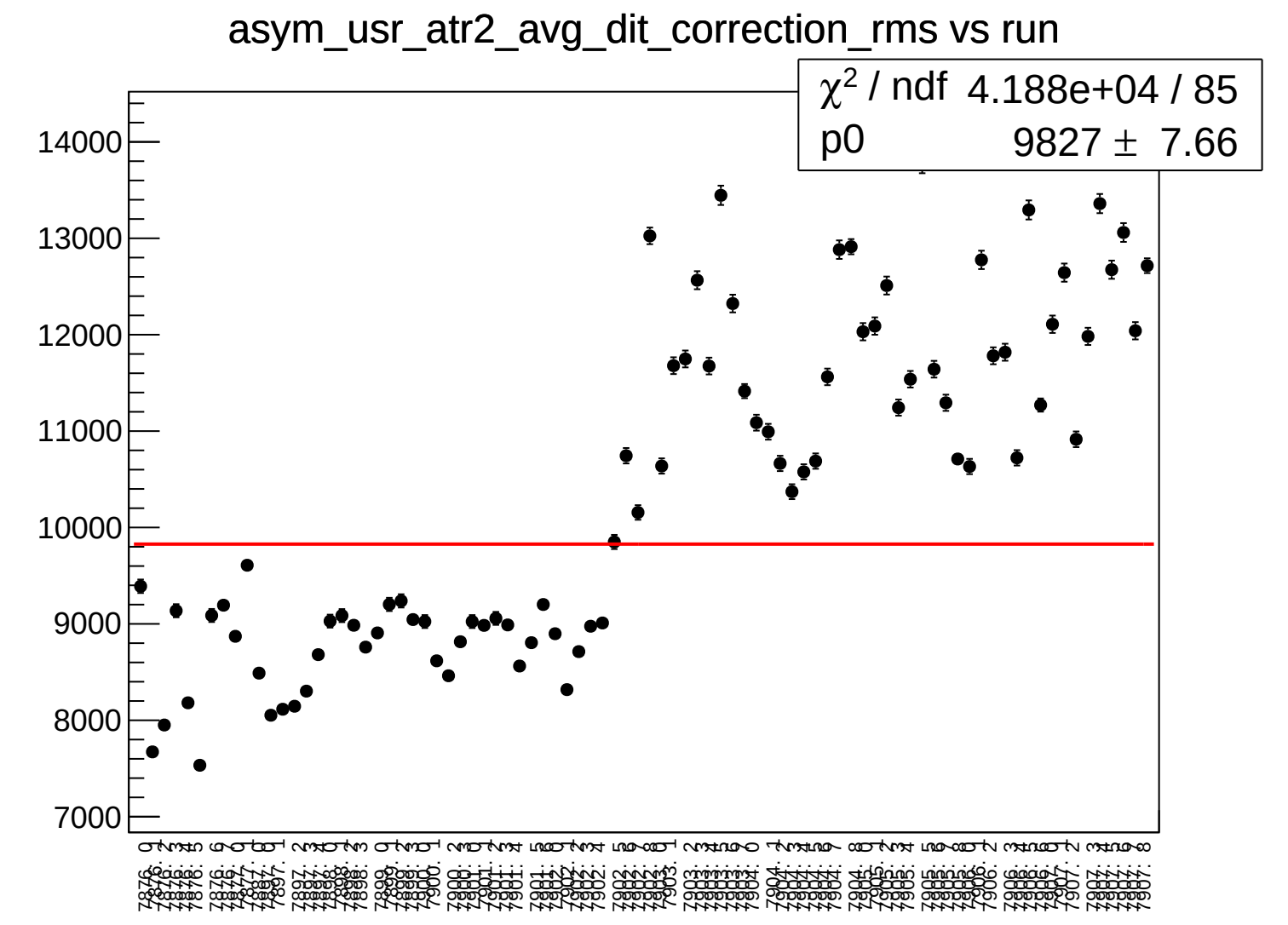

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 68.82 / 85
p0 1165 ± 1941
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 83.4
Std Dev 83.22
2
1
0
−1
−2

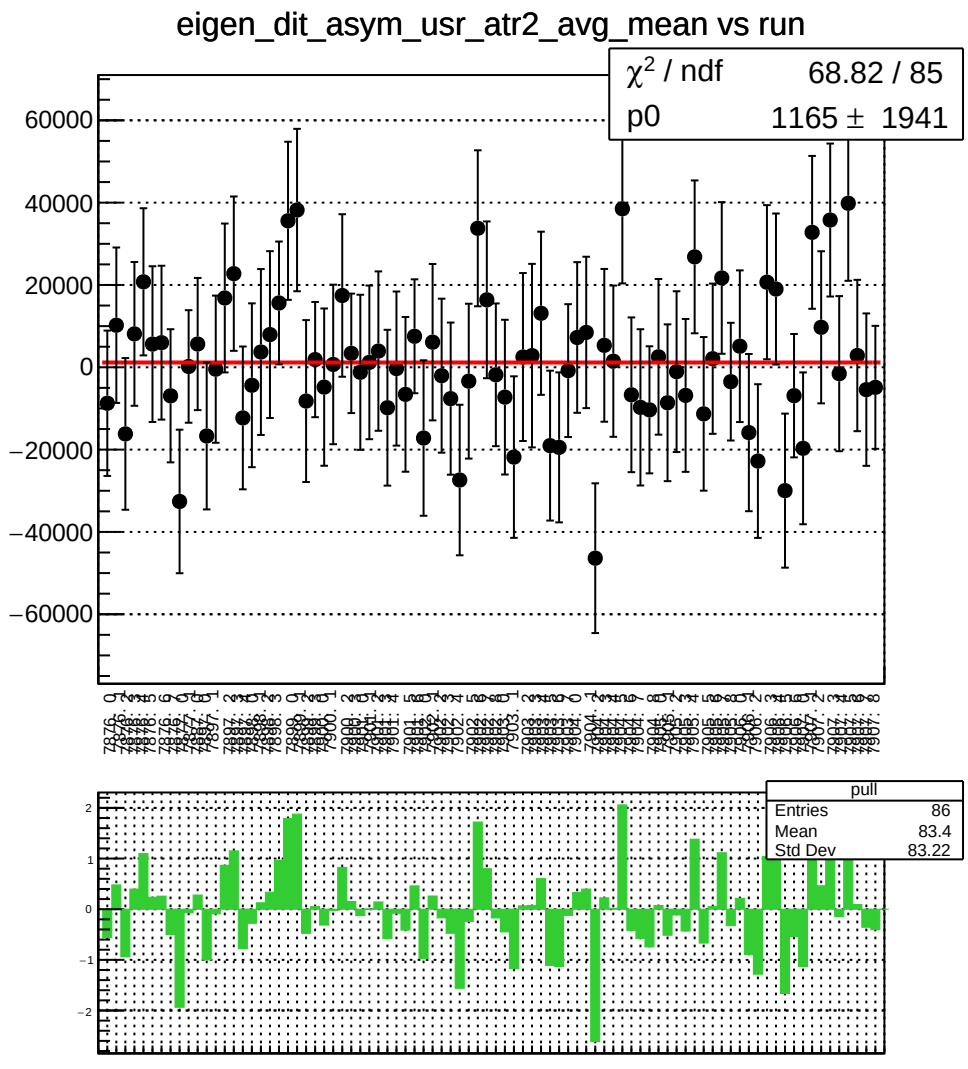

pull1D
Entries 86
Mean 0.006074
Std Dev 0.8946
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

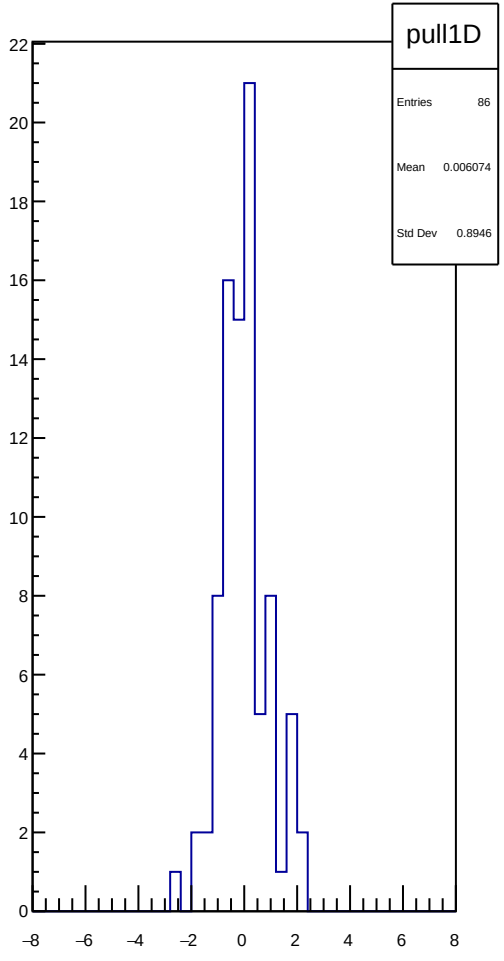

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 2193 / 85
p0 1782 ± 1.372
2100
2000
1900
1800
1700
1600

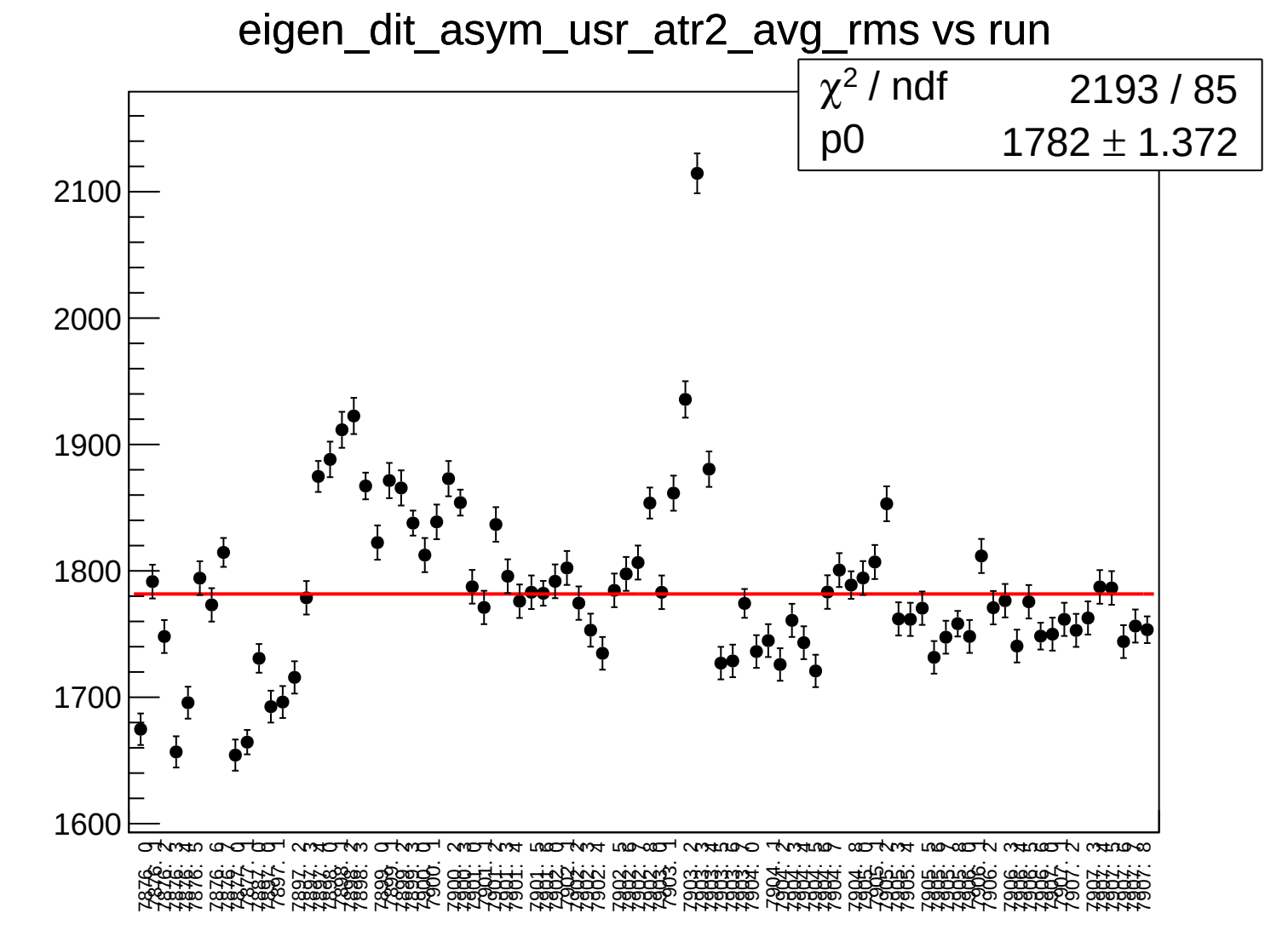

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 70.73 / 85
p0 1.636e+04 ± 1.083e+04
400
200
0
−200
−400
pull
Entries 86
Mean 146.3
Std Dev 0
2
1
0
−1
−2
−3

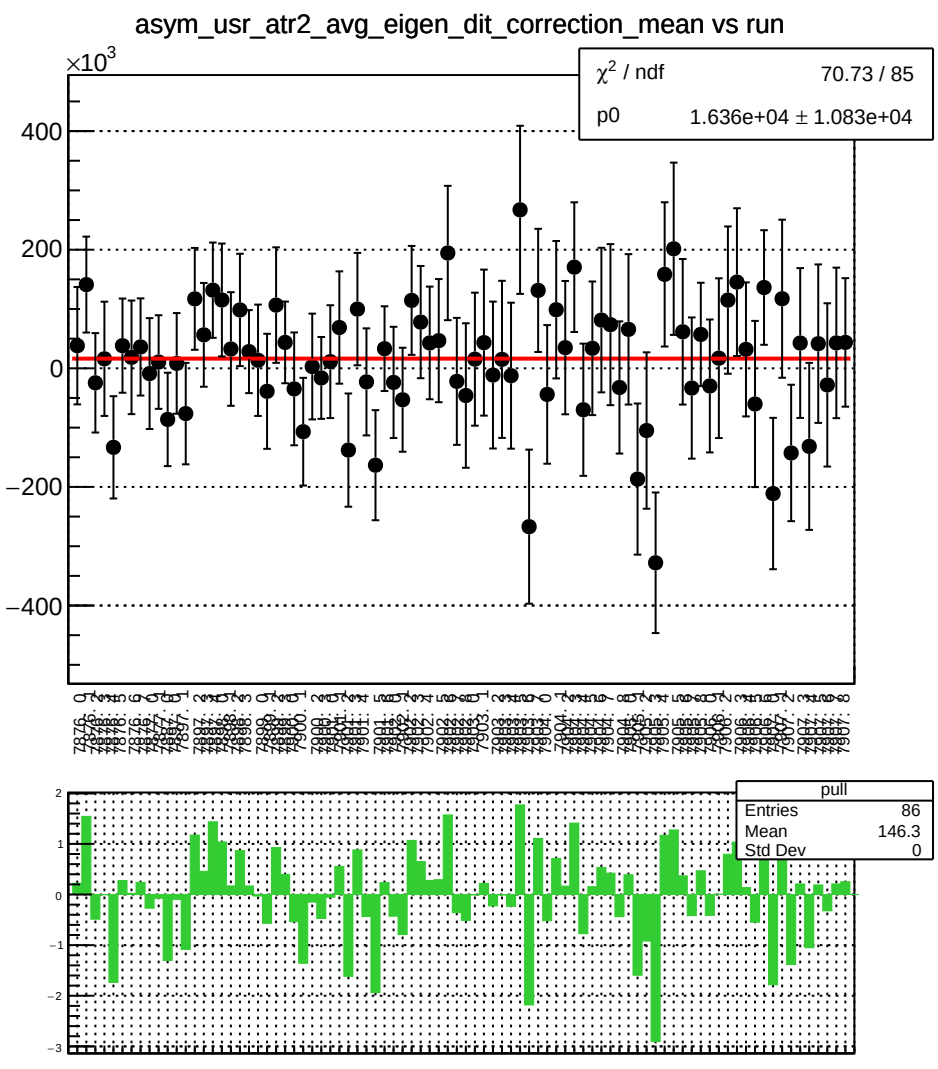

pull1D
Entries 86
Mean −0.006388
Std Dev 0.9069
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

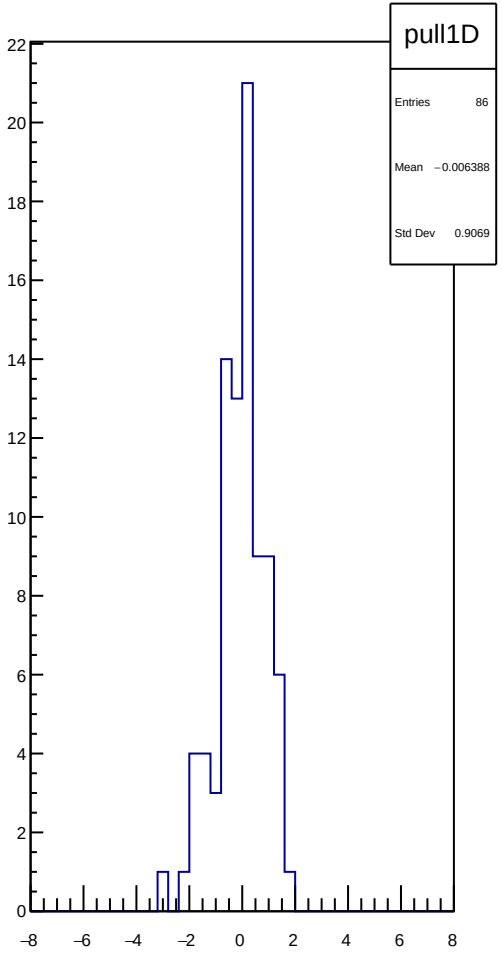

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 4.188e+04 / 85
p0 9827 ± 7.66
14000
13000
12000
11000
10000
9000
8000
7000

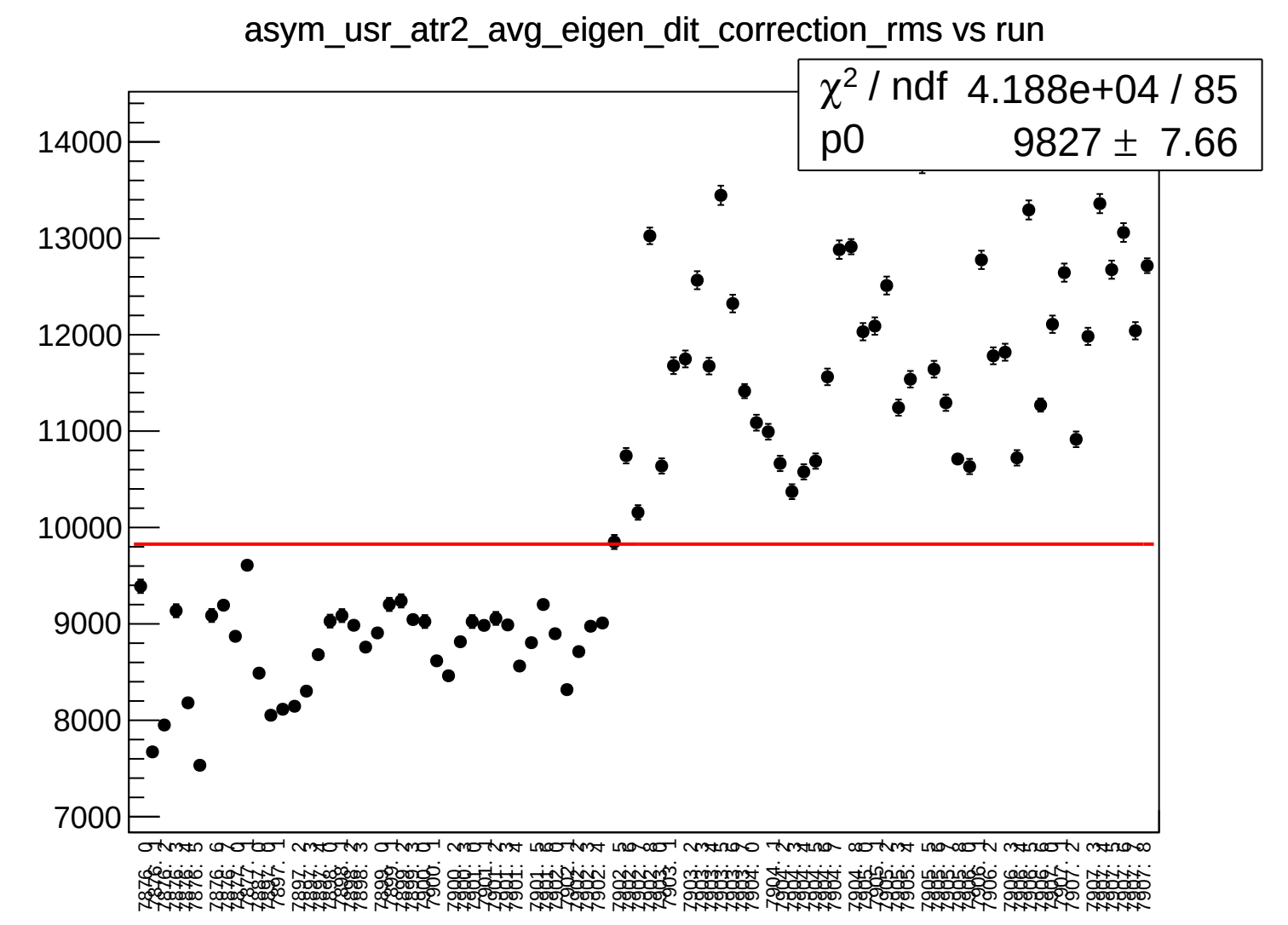

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 68.82 / 85
p0 1165 ± 1941
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 83.4
Std Dev 83.22
2
1
0
−1
−2

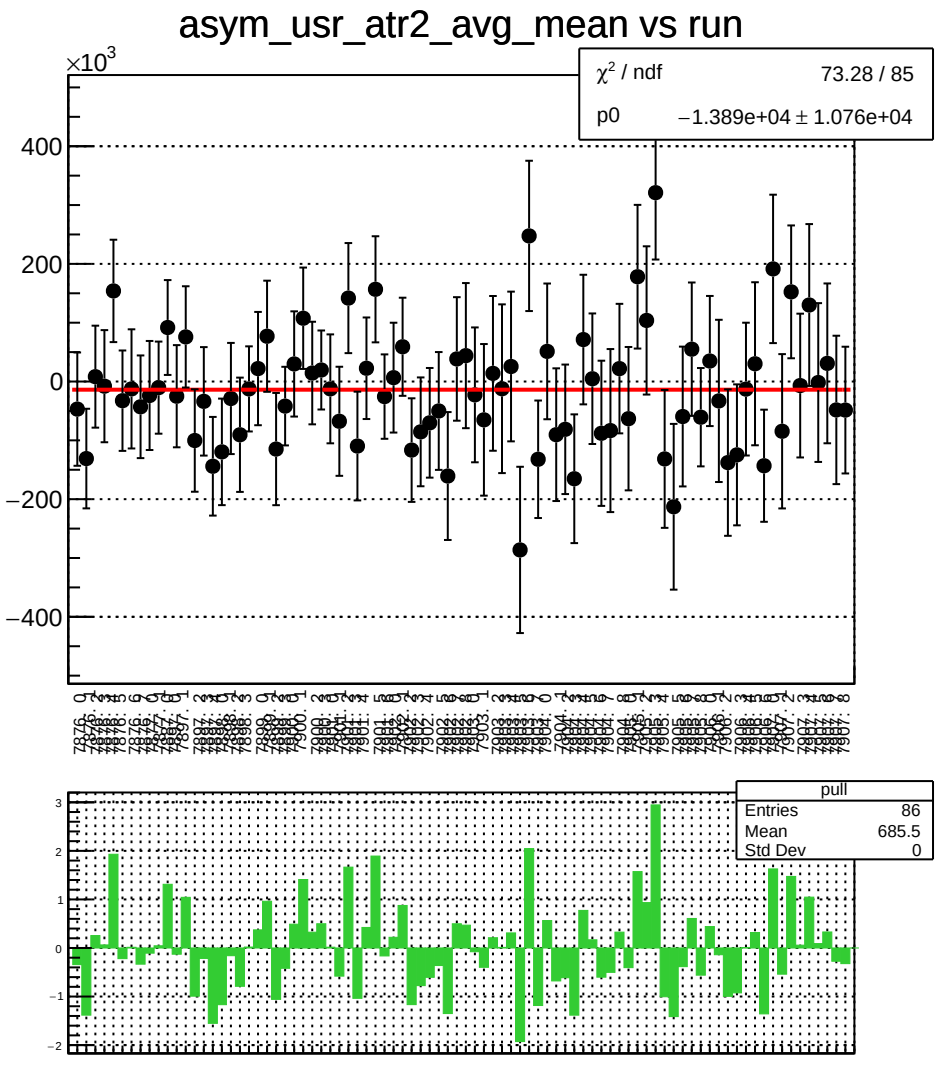

pull1D
Entries 86
Mean 0.006074
Std Dev 0.8946
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

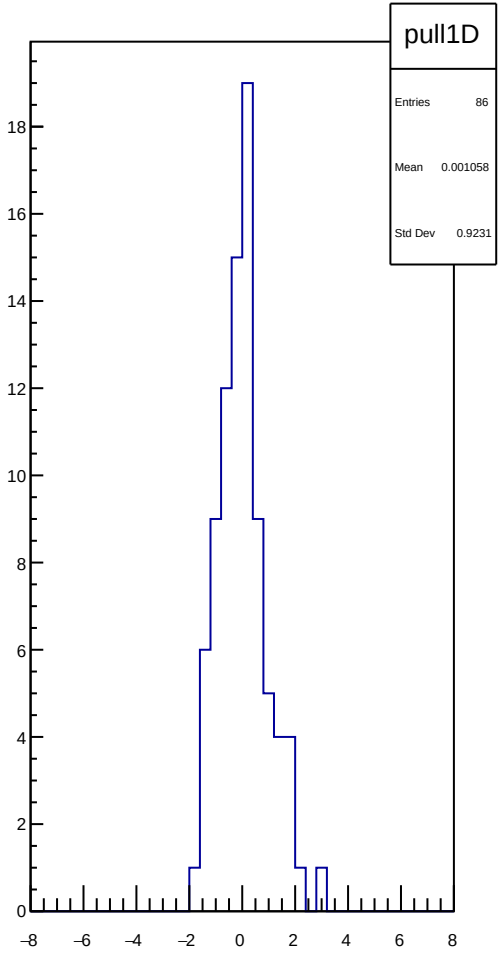

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 2193 / 85
p0 1782 ± 1.372
2100
2000
1900
1800
1700
1600

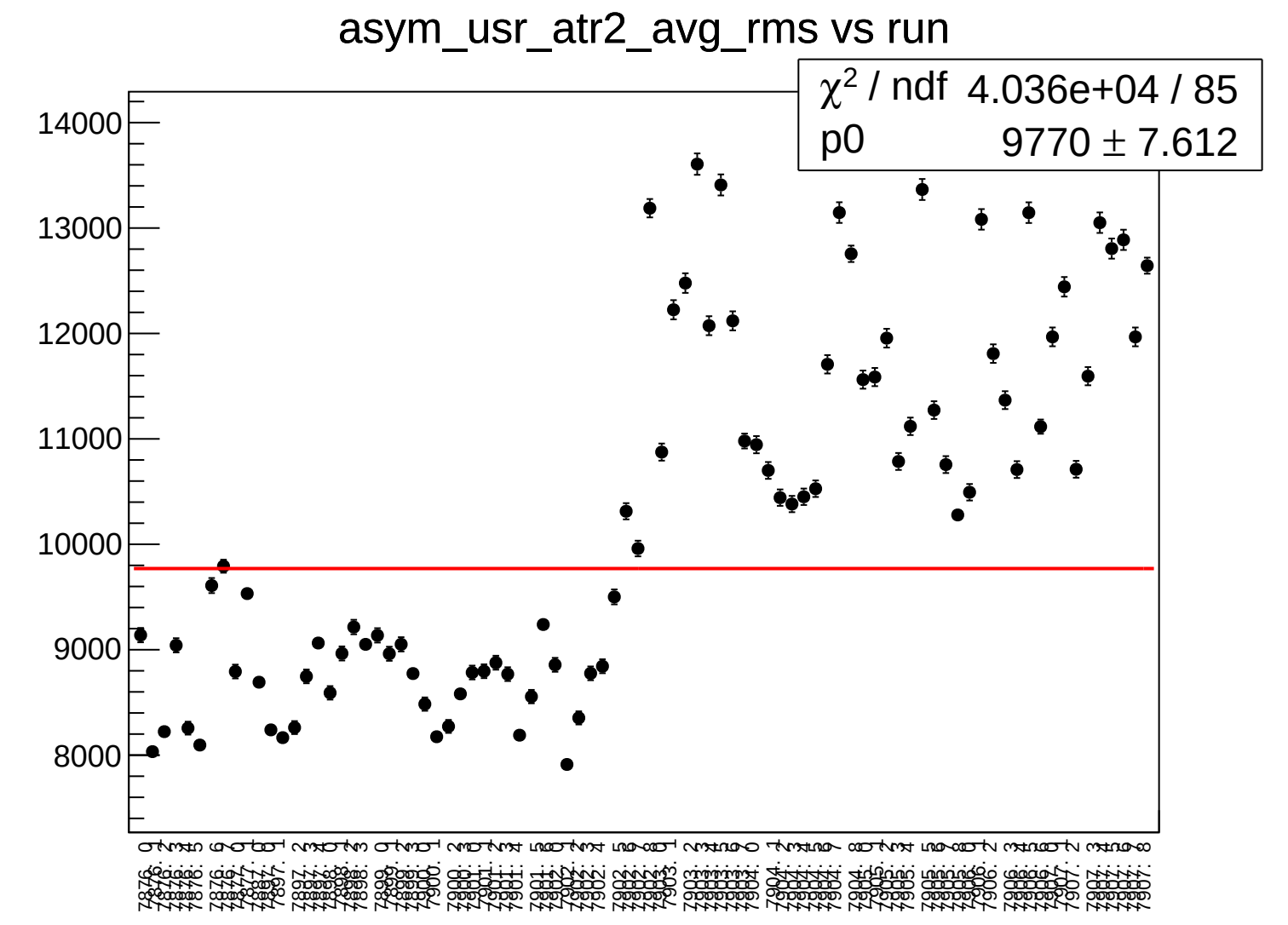

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 70.73 / 85
p0 1.636e+04 ± 1.083e+04
400
200
0
−200
−400
pull
Entries 86
Mean 146.3
Std Dev 0
2
1
0
−1
−2
−3

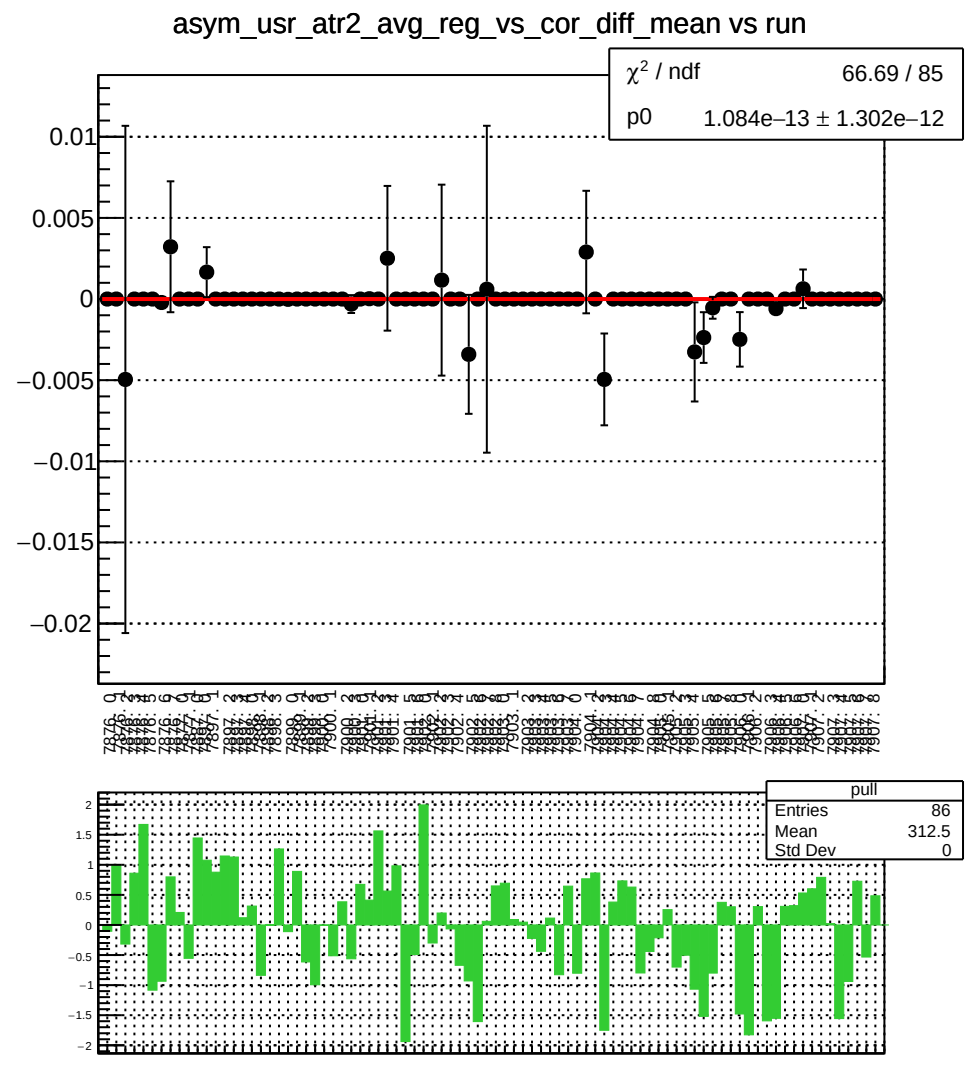

pull1D
Entries 86
Mean −0.006388
Std Dev 0.9069
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

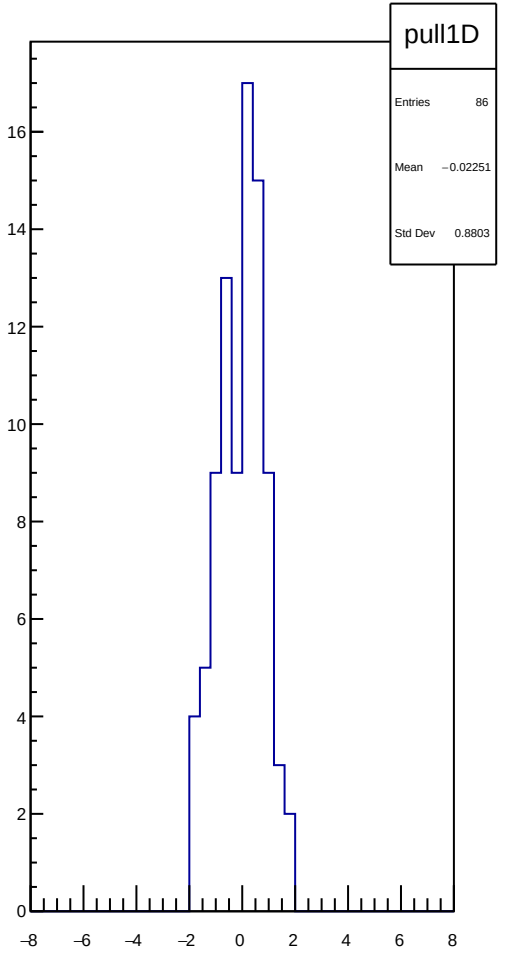

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.188e+04 / 85
p0 9827 ± 7.66
14000
13000
12000
11000
10000
9000
8000
7000

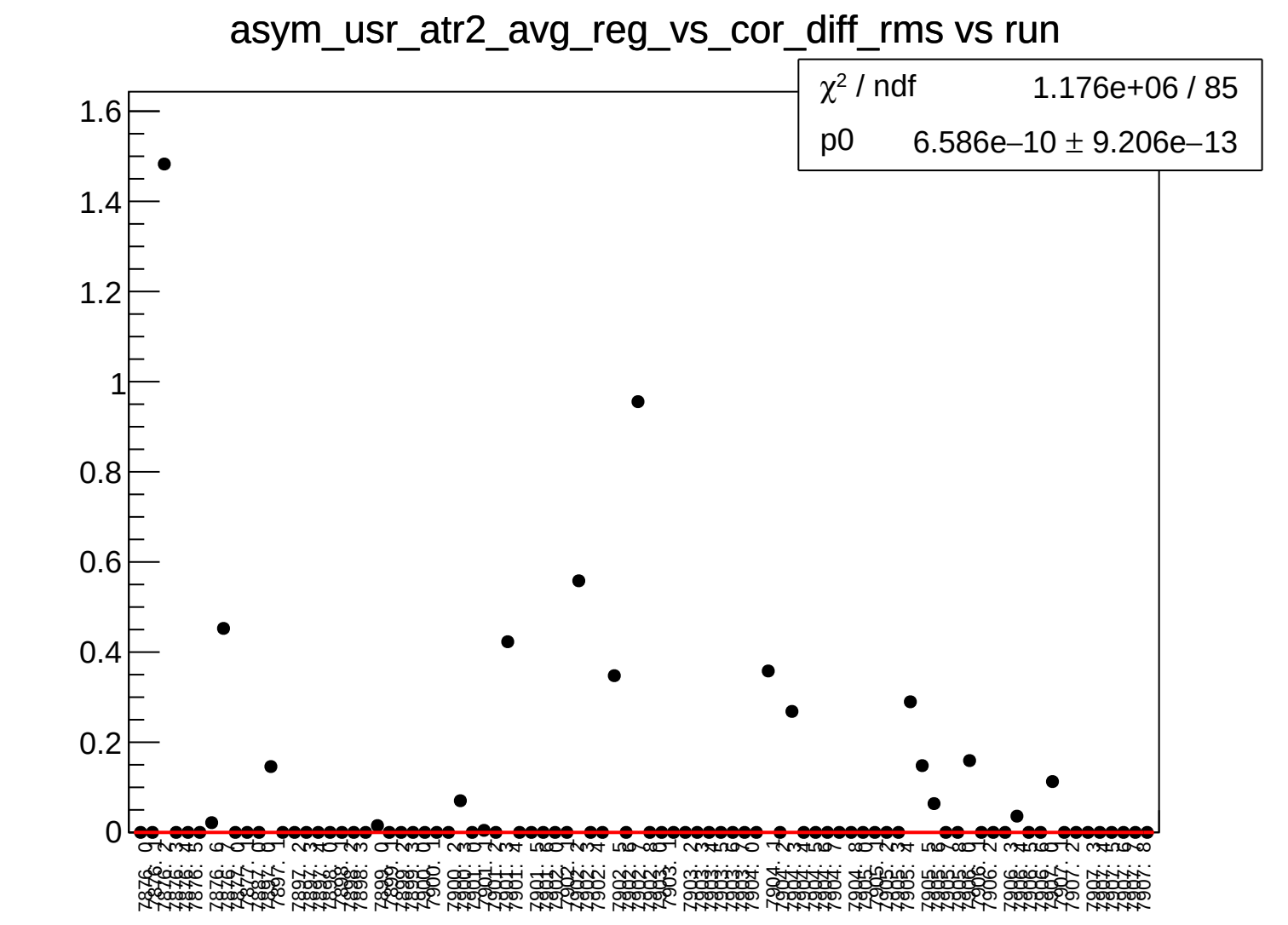

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 73.28 / 85
p0 −1.389e+04 ± 1.076e+04
400
200
0
−200
−400
pull
Entries 86
Mean 685.5
Std Dev 0
3
2
1
0
−1
−2

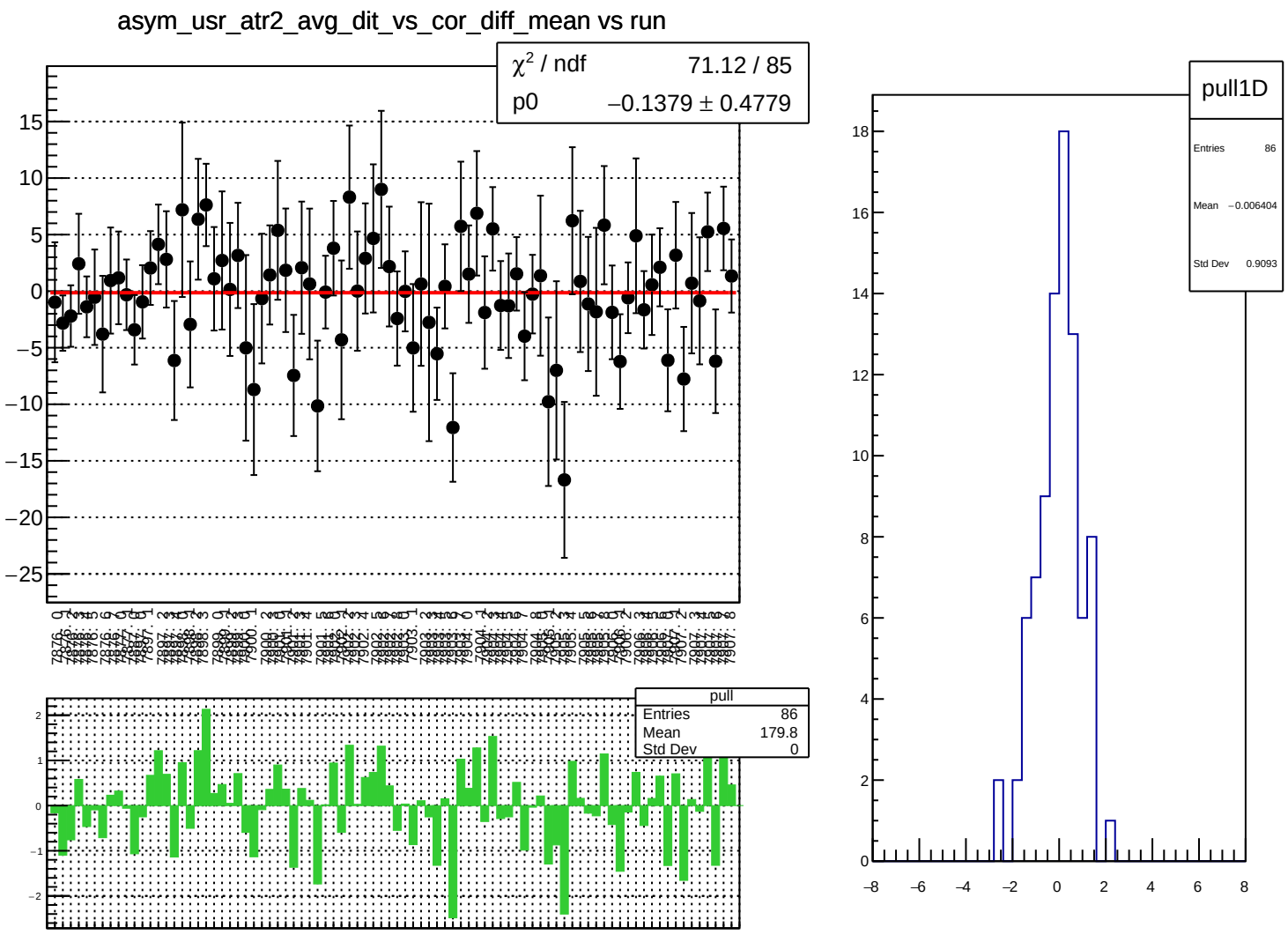

pull1D
Entries 86
Mean 0.001058
Std Dev 0.9231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

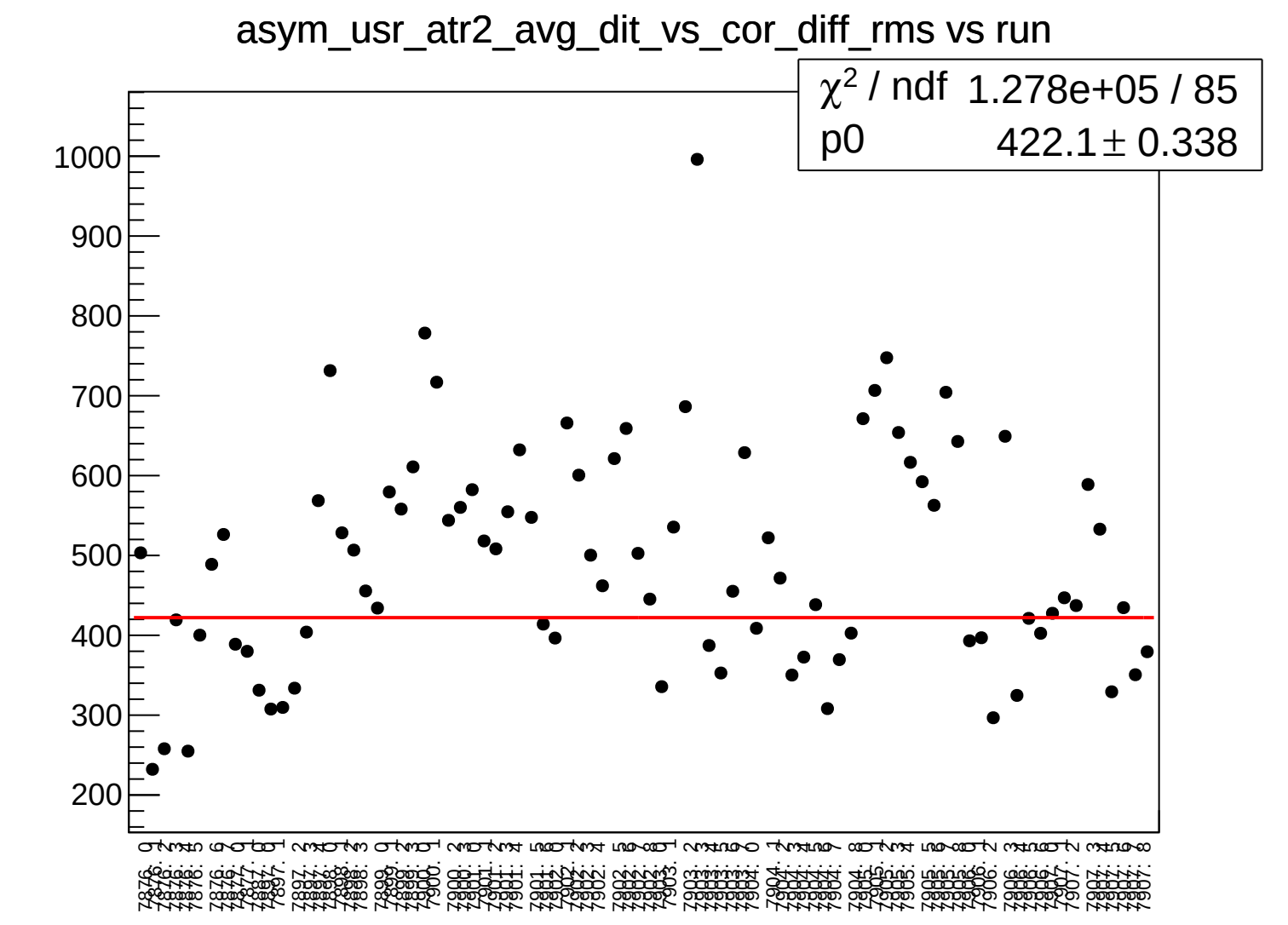

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 4.036e+04 / 85
p0 9770 ± 7.612
14000
13000
12000
11000
10000
9000
8000

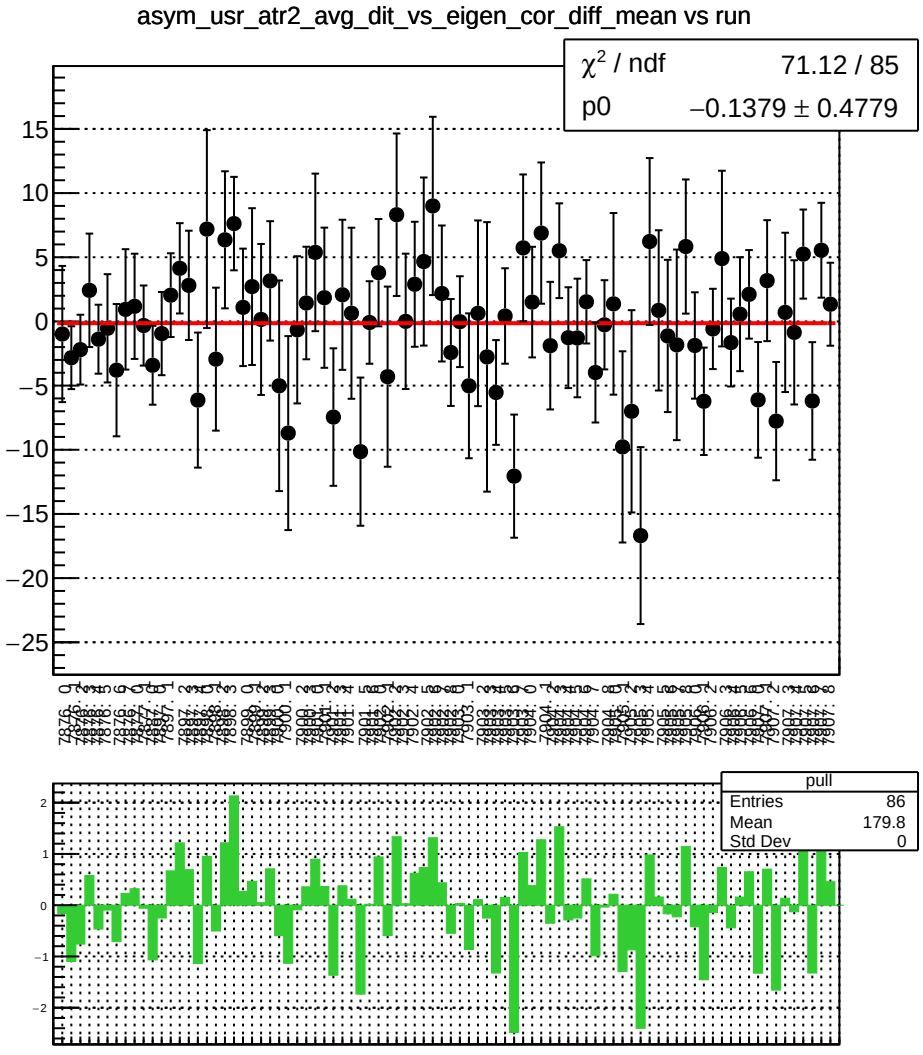

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.69 / 85
p0 1.084e−13 ± 1.302e−12
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 86
Mean 312.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

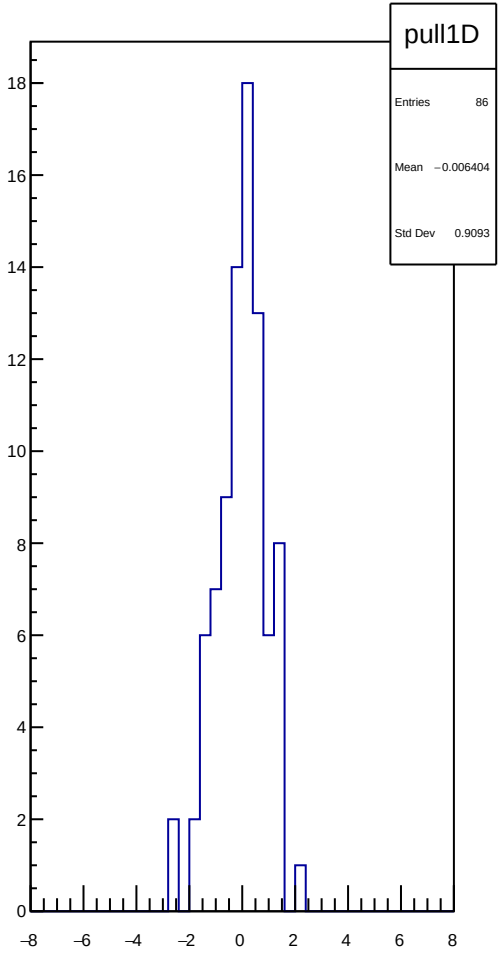

pull1D
Entries 86
Mean −0.02251
Std Dev 0.8803
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

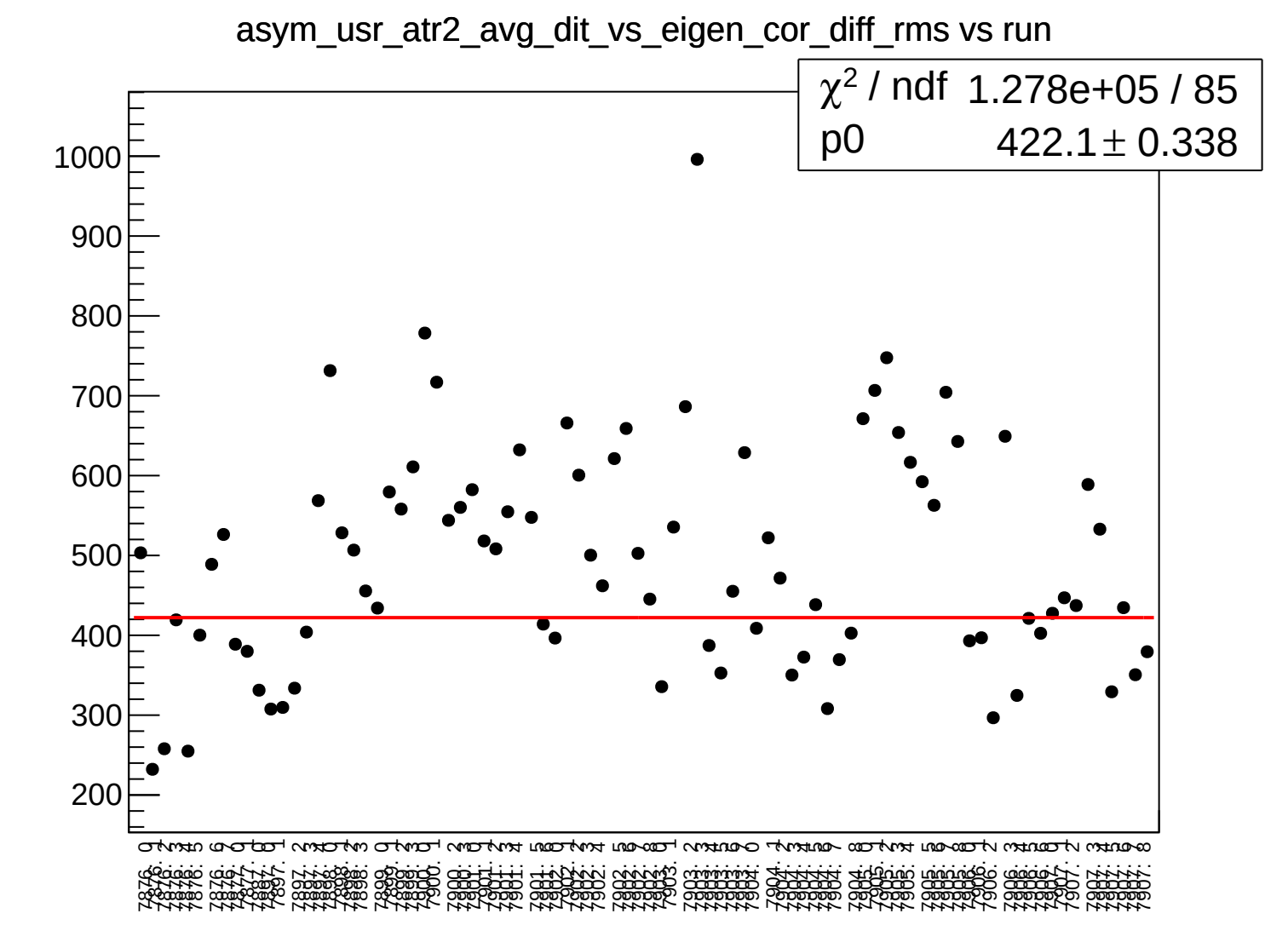

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.176e+06 / 85
p0 6.586e−10 ± 9.206e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

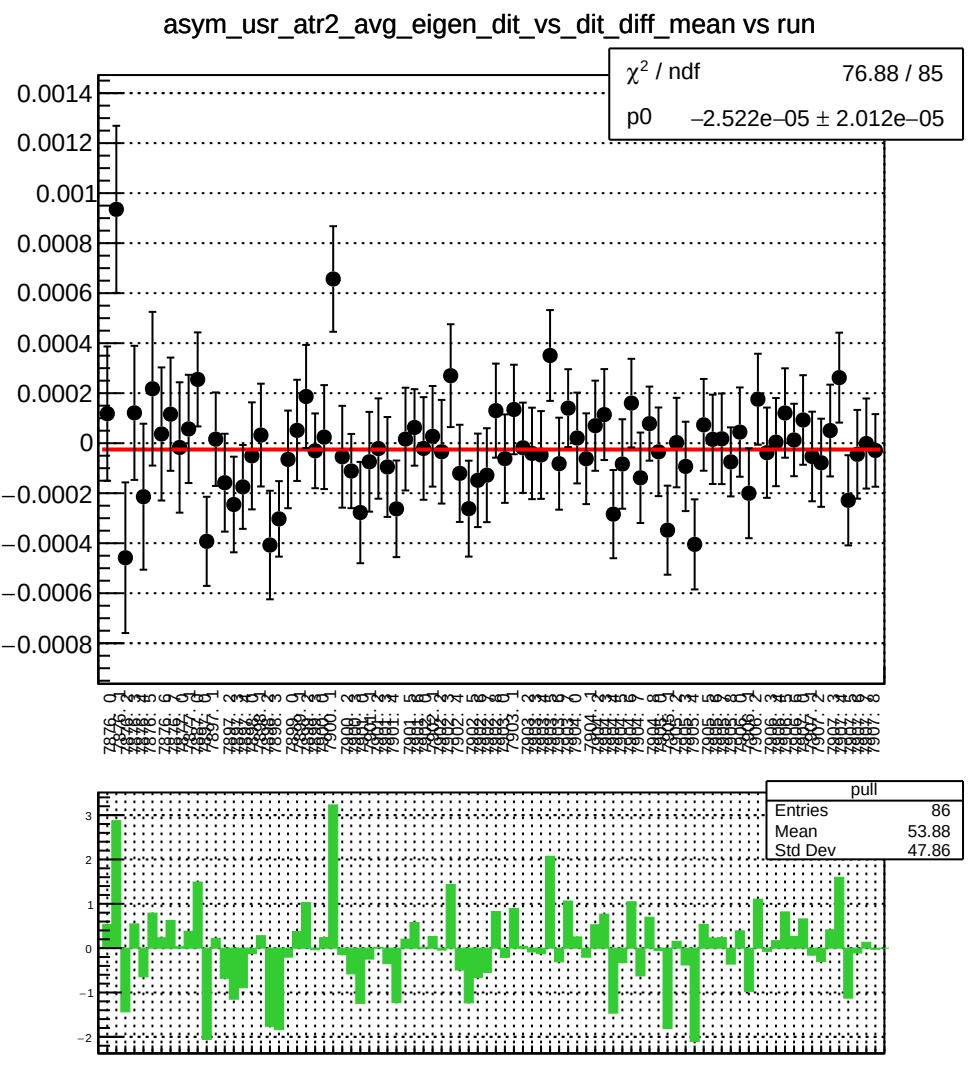

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.12 / 85
p0 −0.1379 ± 0.4779
pull
Entries 86
Mean 179.8
Std Dev 0
pull1D
Entries 86
Mean −0.006404
Std Dev 0.9093

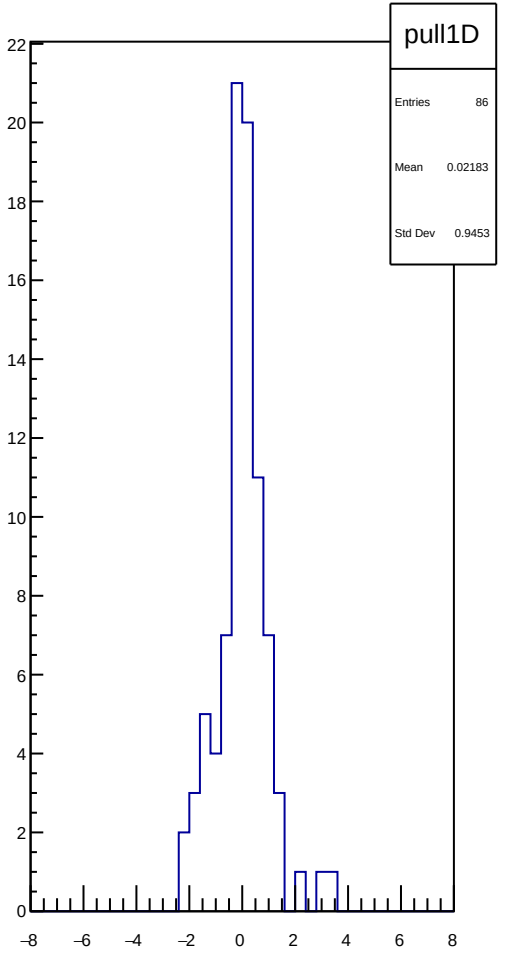

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.278e+05 / 85
p0 422.1 ± 0.338
1000
900
800
700
600
500
400
300
200

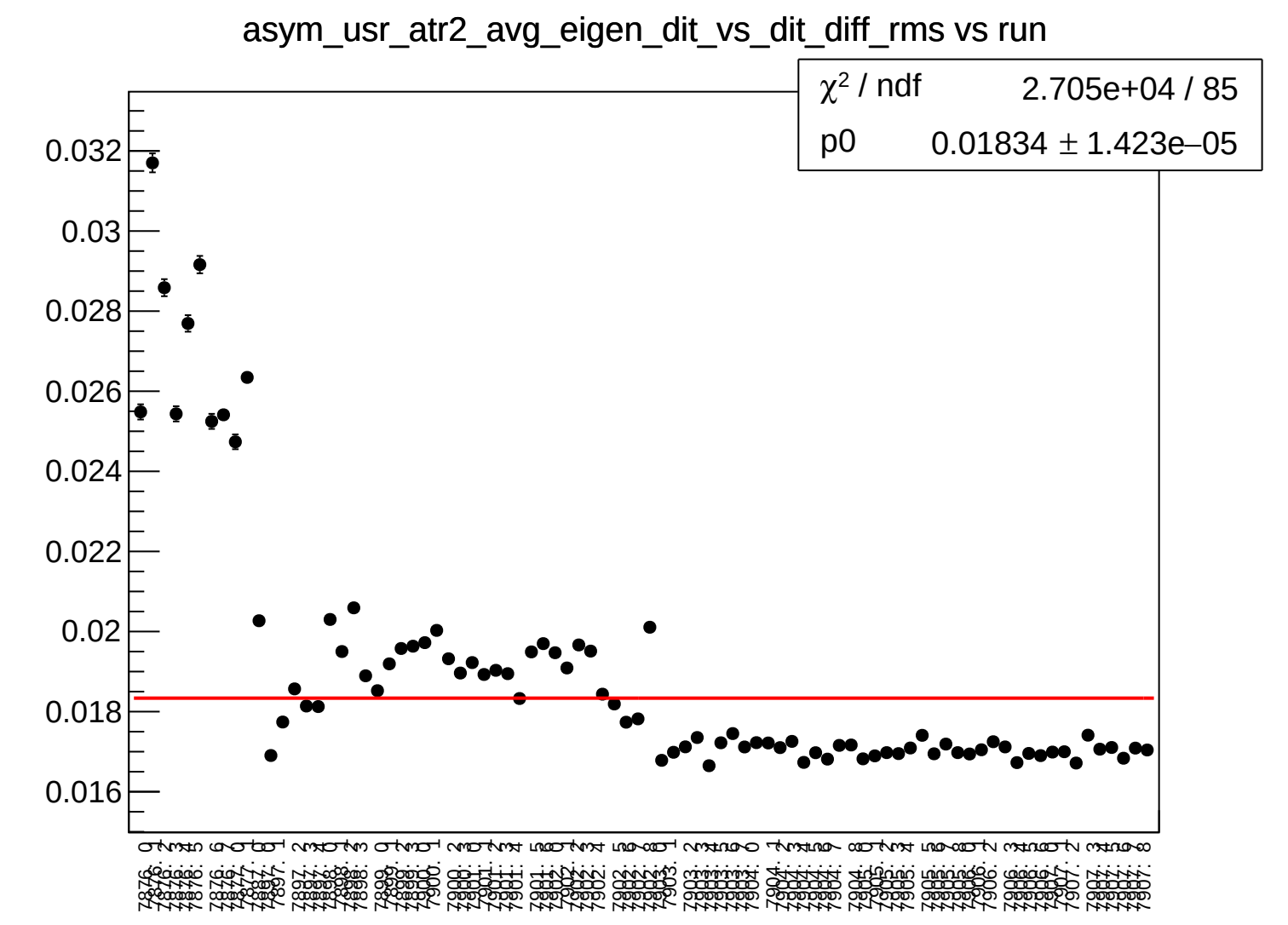

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.12 / 85
p0 −0.1379 ± 0.4779
pull
Entries 86
Mean 179.8
Std Dev 0

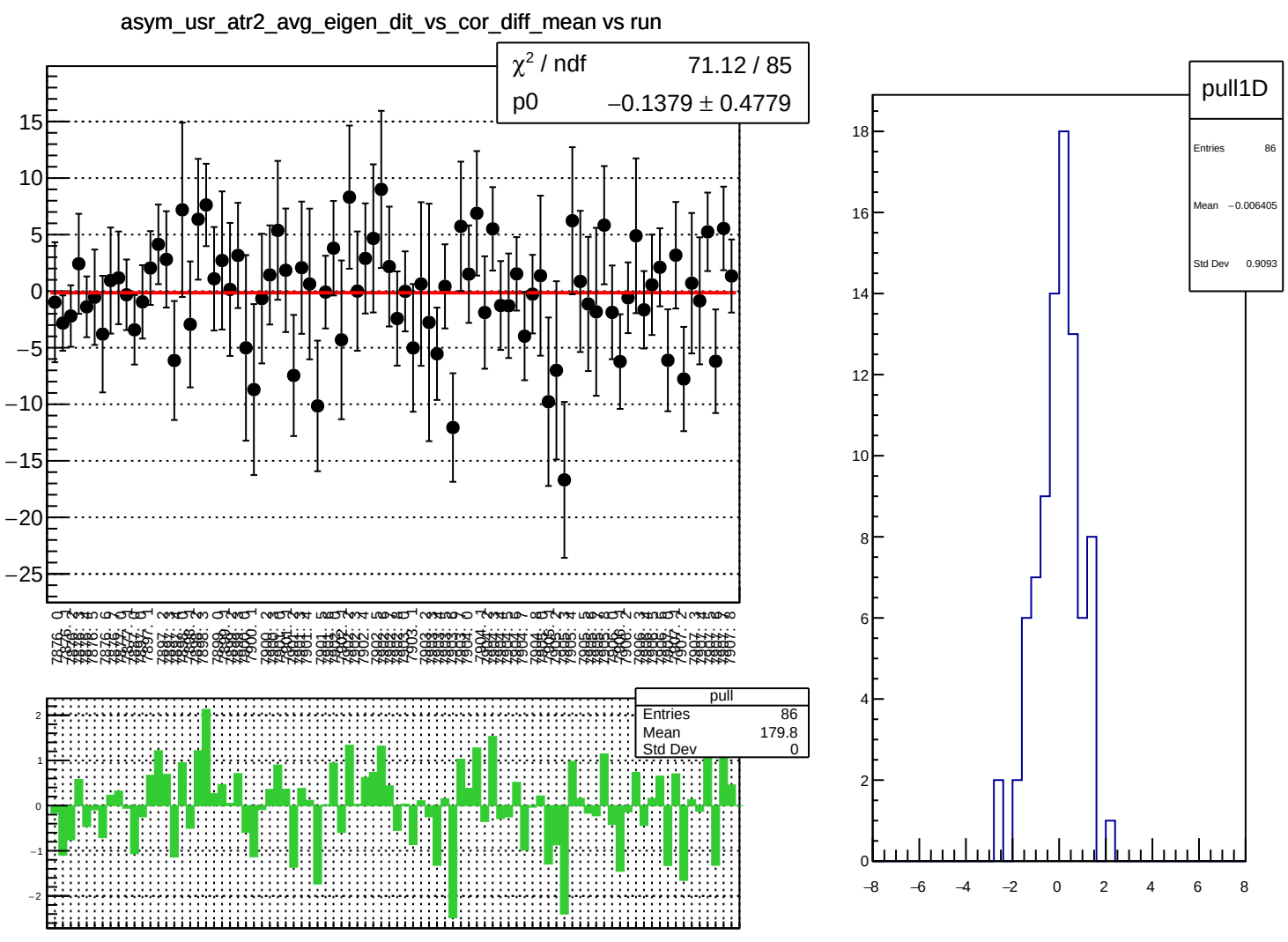

pull1D
Entries 86
Mean −0.006404
Std Dev 0.9093

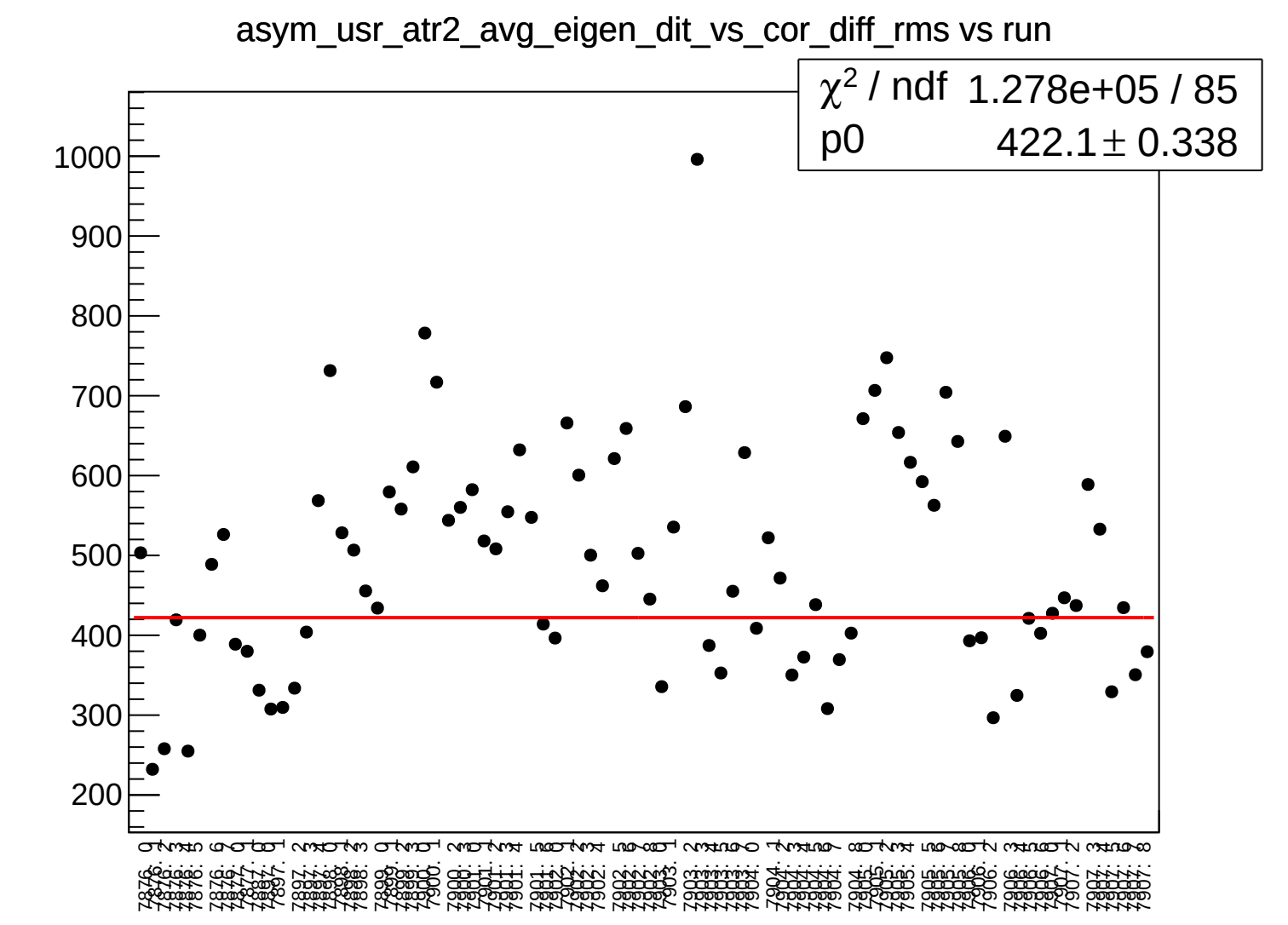

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.278e+05 / 85
p0 422.1 ± 0.338
1000
900
800
700
600
500
400
300
200

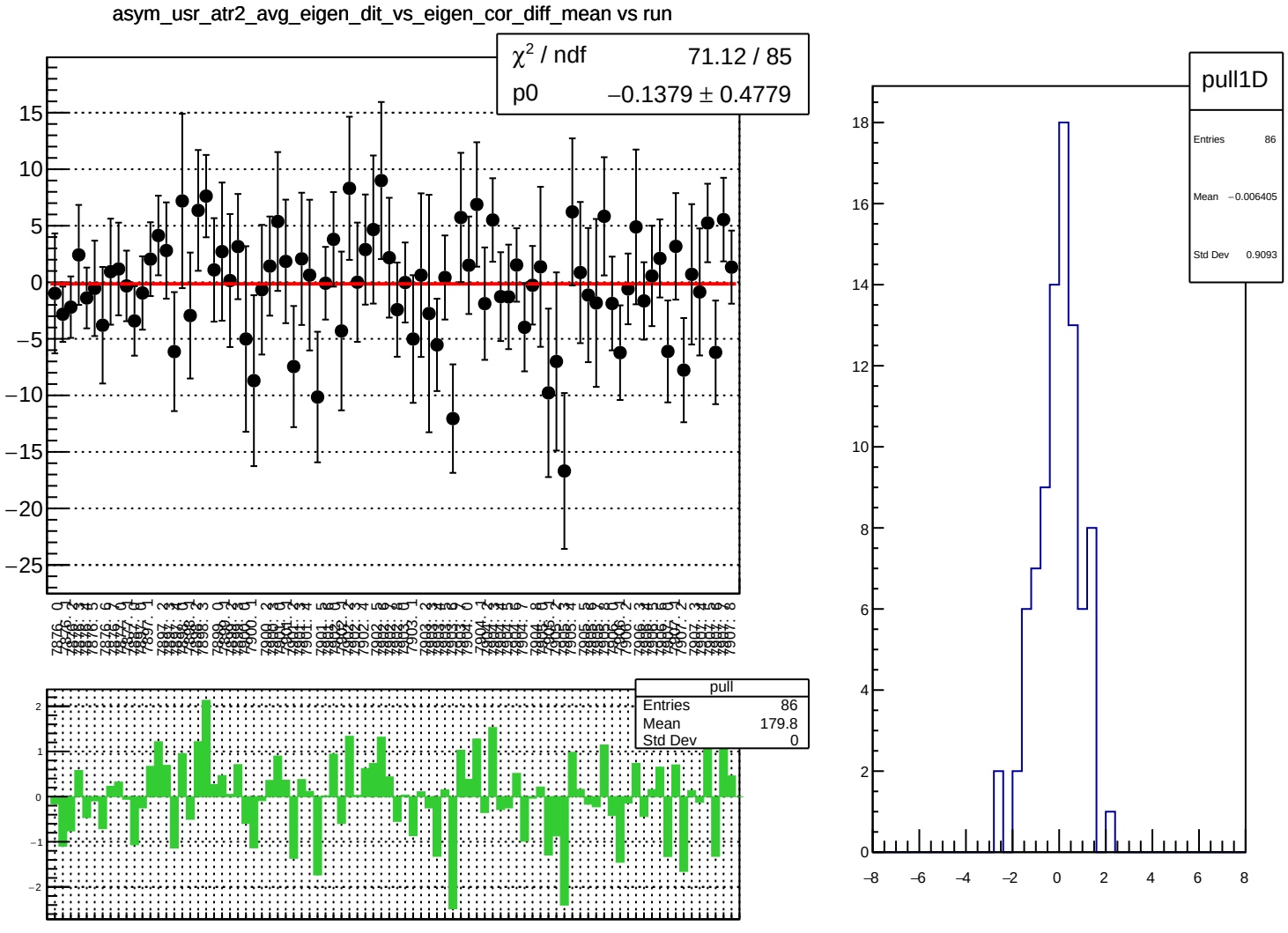

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.88 / 85
p0 −2.522e−05 ± 2.012e−05
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 86
Mean 53.88
Std Dev 47.86
3
2
1
0
−1
−2

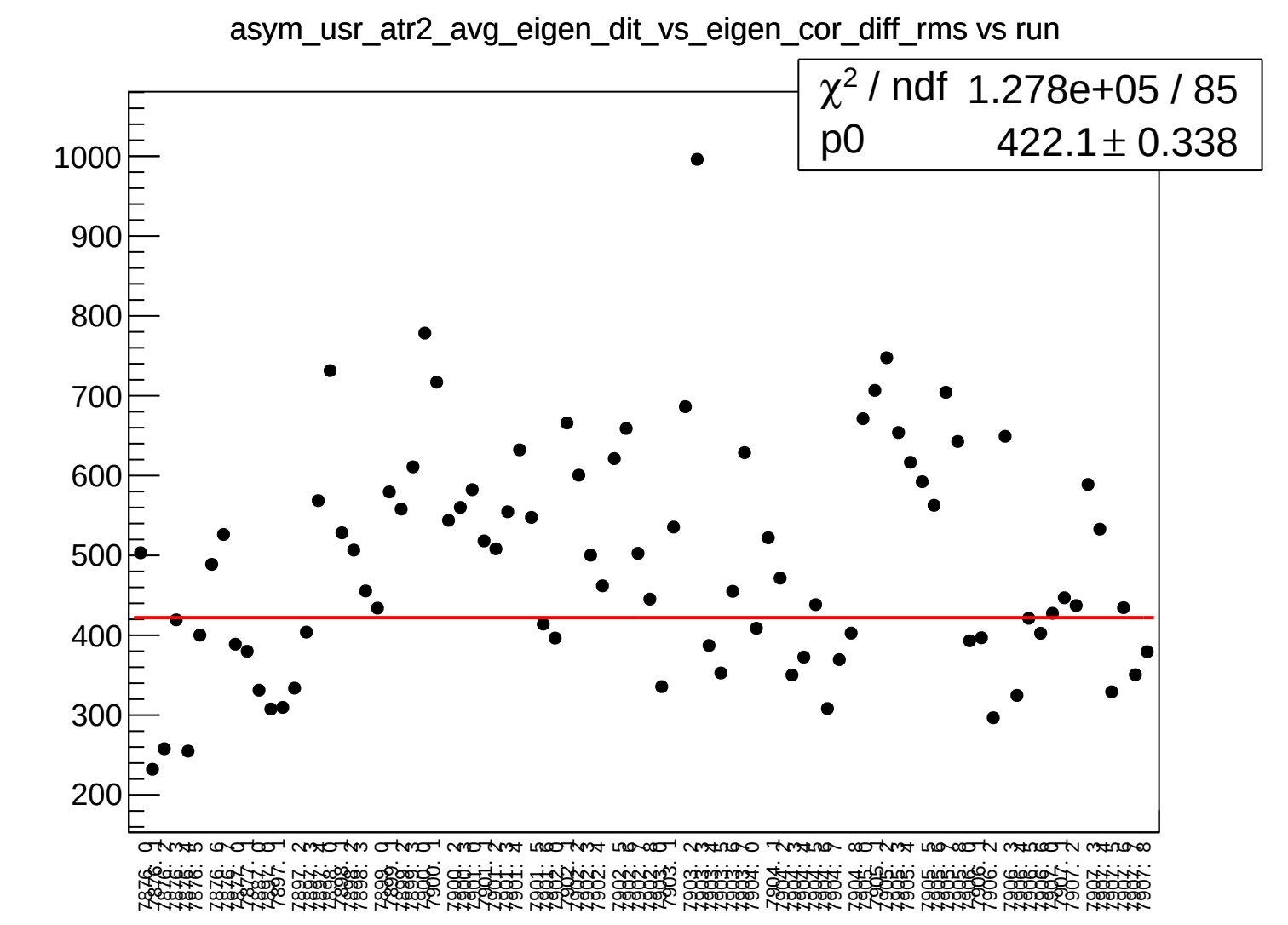

pull1D
Entries 86
Mean 0.02183
Std Dev 0.9453
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

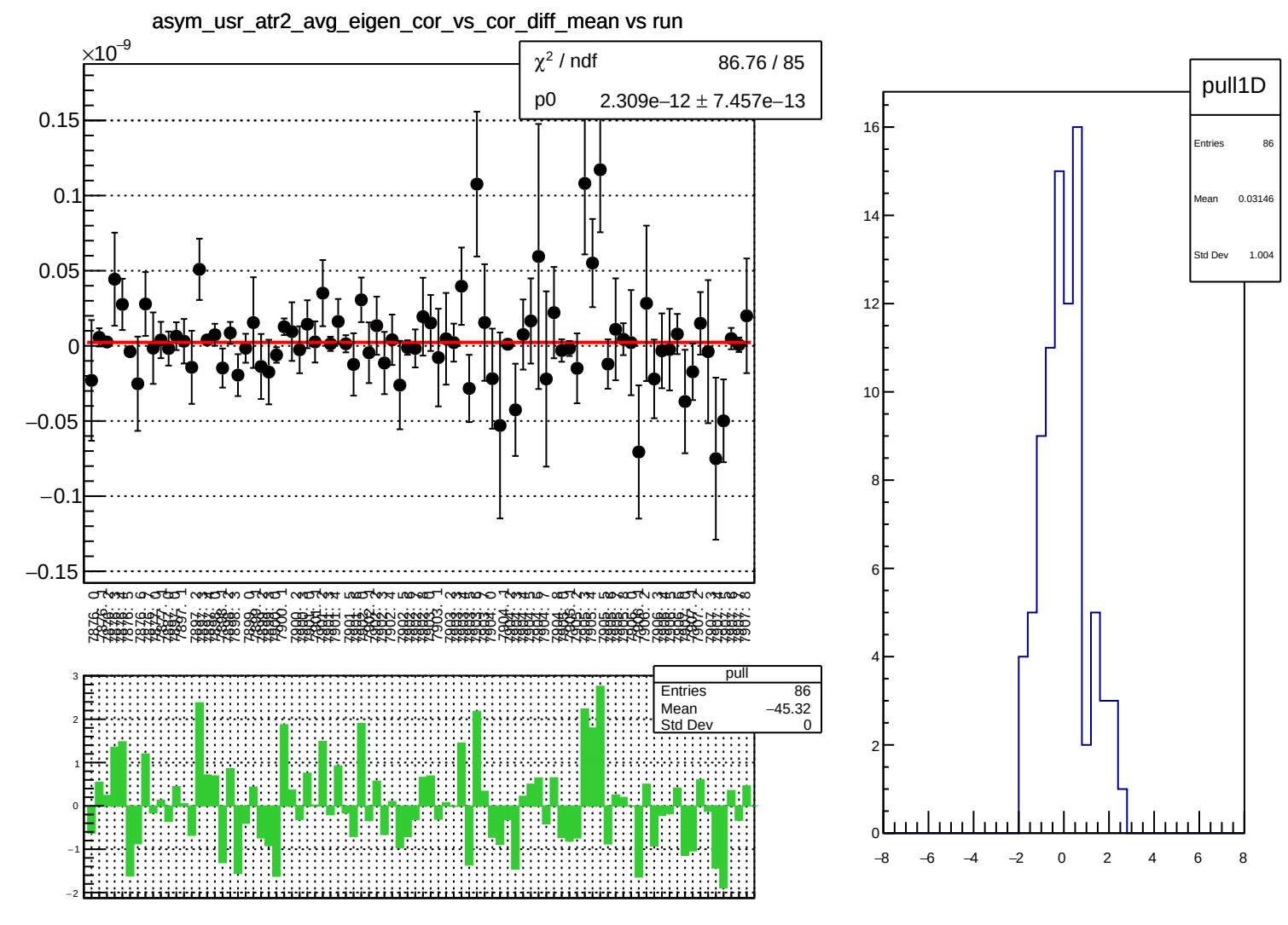

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.705e+04 / 85
p0 0.01834 ± 1.423e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

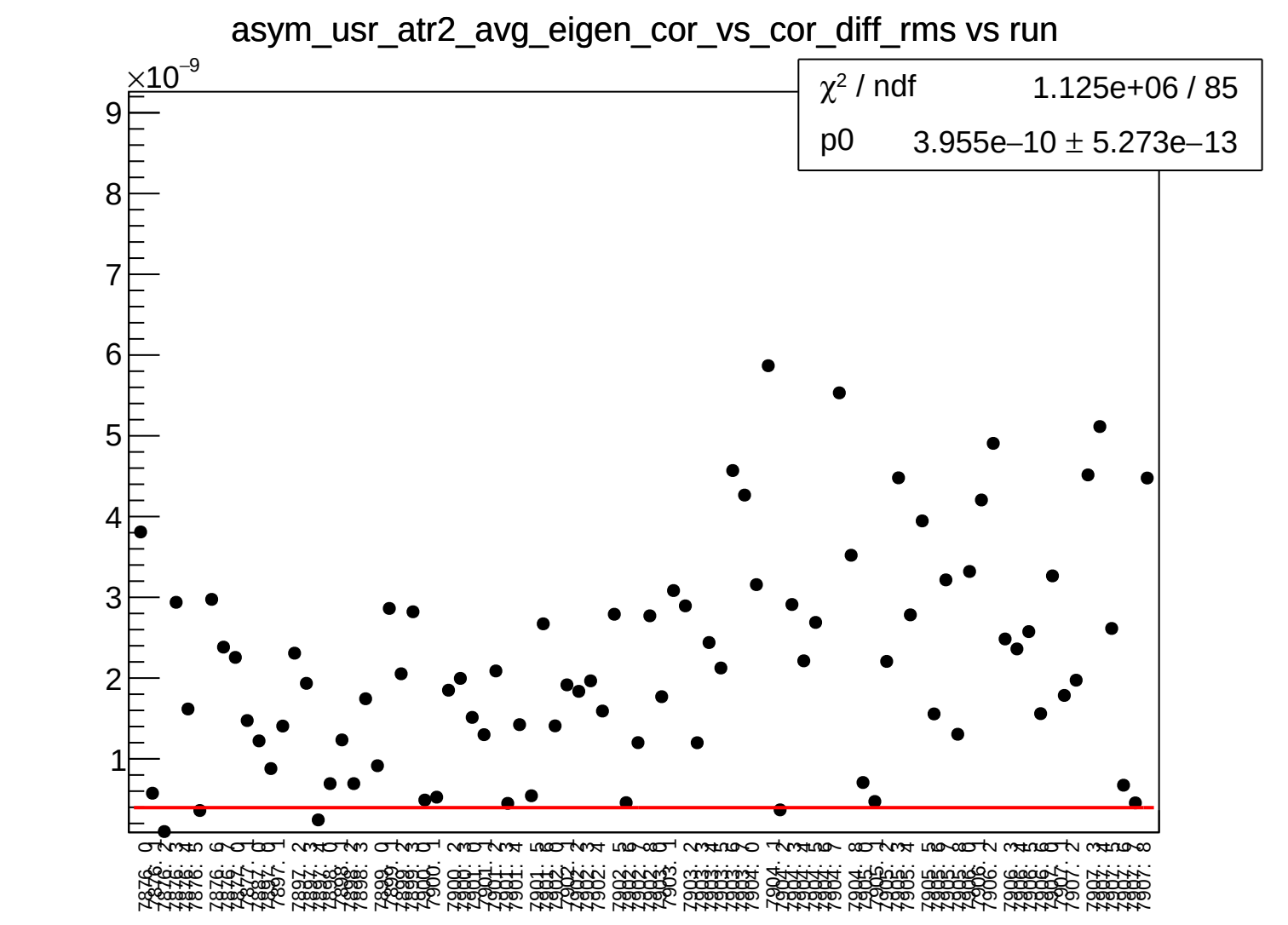

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.12 / 85
p0 −0.1379 ± 0.4779
pull
Entries 86
Mean 179.8
Std Dev 0
pull1D
Entries 86
Mean −0.006405
Std Dev 0.9093

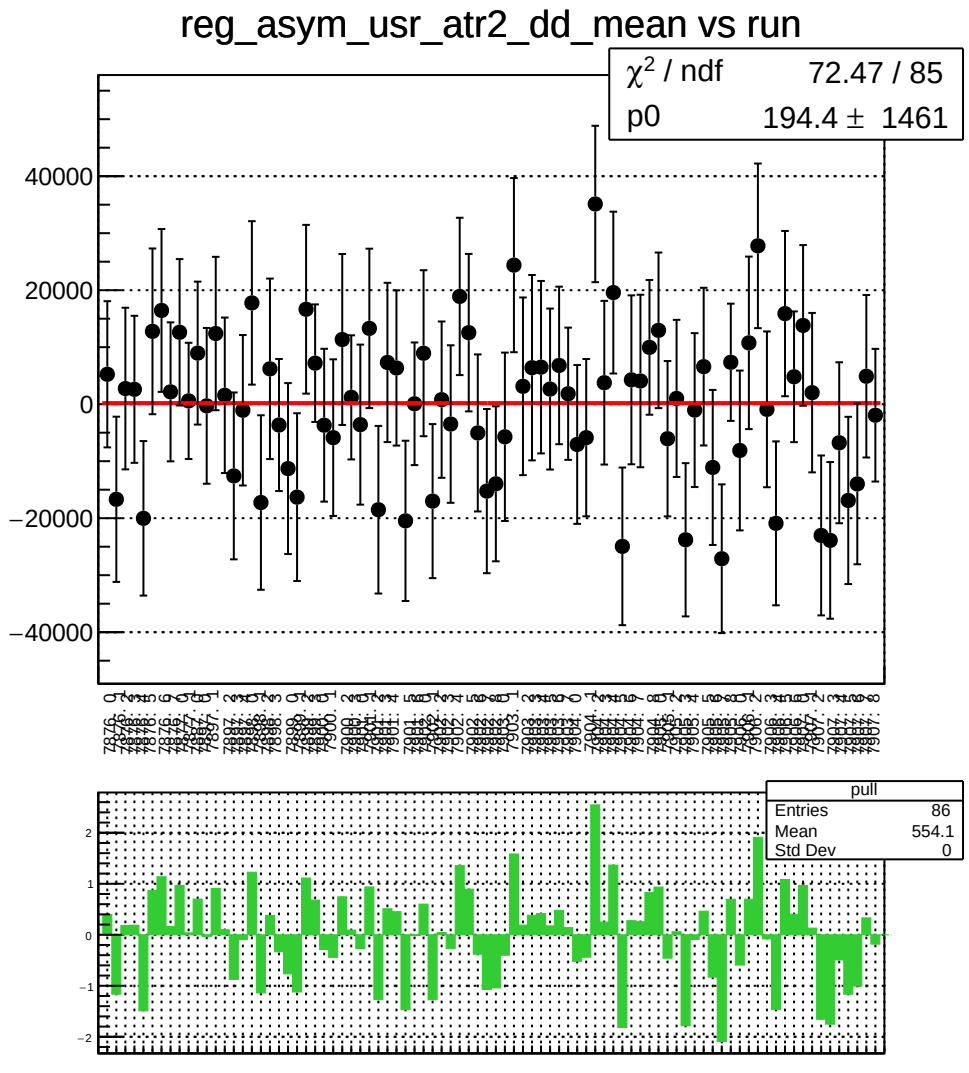

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.278e+05 / 85
p0 422.1 ± 0.338
1000
900
800
700
600
500
400
300
200

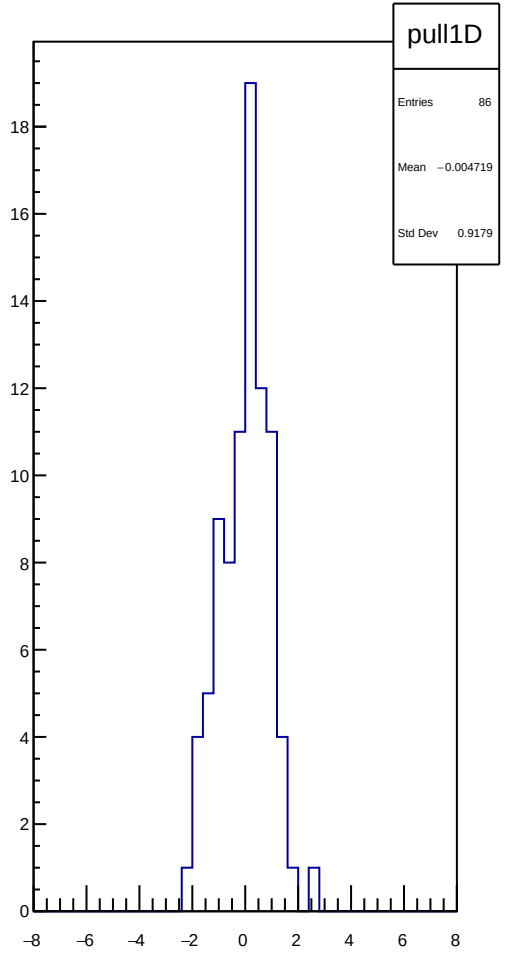

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.12 / 85
p0 −0.1379 ± 0.4779
pull
Entries 86
Mean 179.8
Std Dev 0
pull1D
Entries 86
Mean −0.006405
Std Dev 0.9093

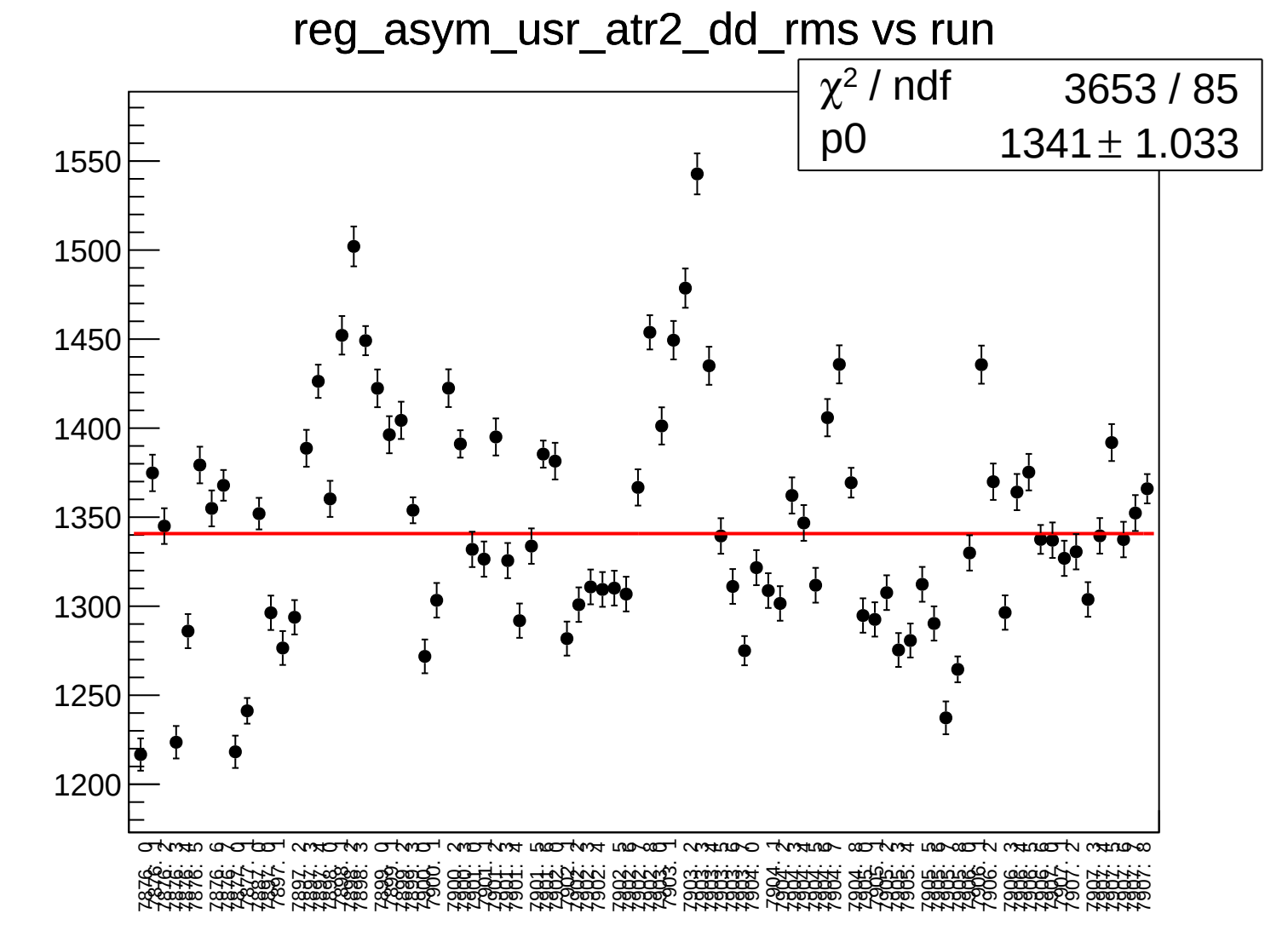

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.278e+05 / 85
p0 422.1 ± 0.338
1000
900
800
700
600
500
400
300
200

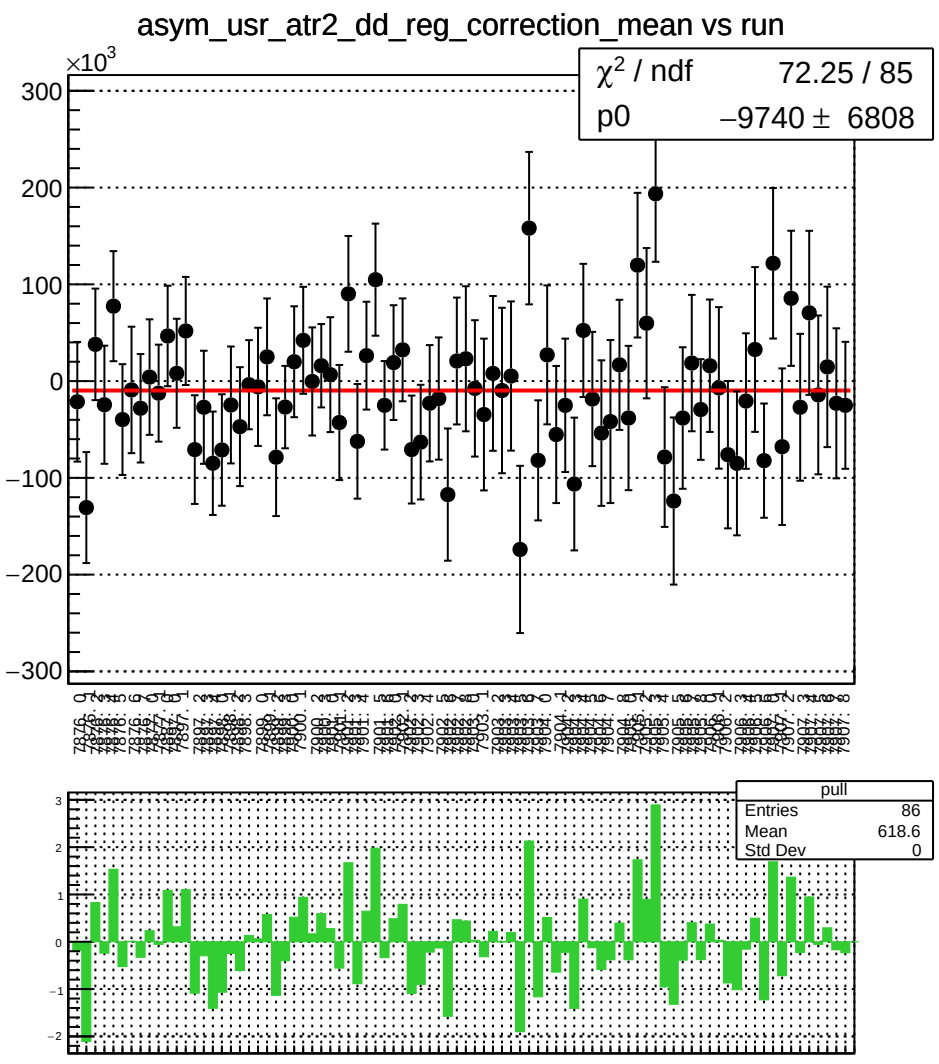

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.76 / 85
p0 2.309e−12 ± 7.457e−13
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean −45.32
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.03146
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

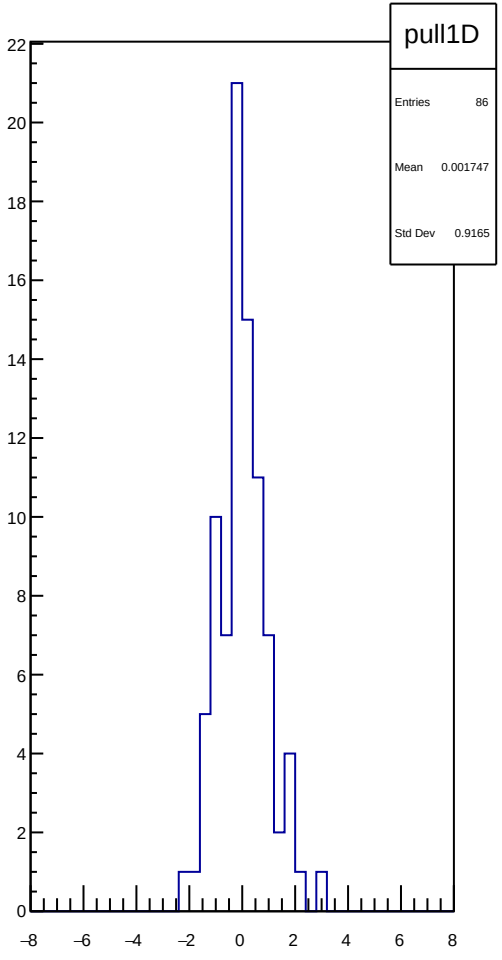

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.125e+06 / 85
p0 3.955e−10 ± 5.273e−13
9
8
7
6
5
4
3
2
1

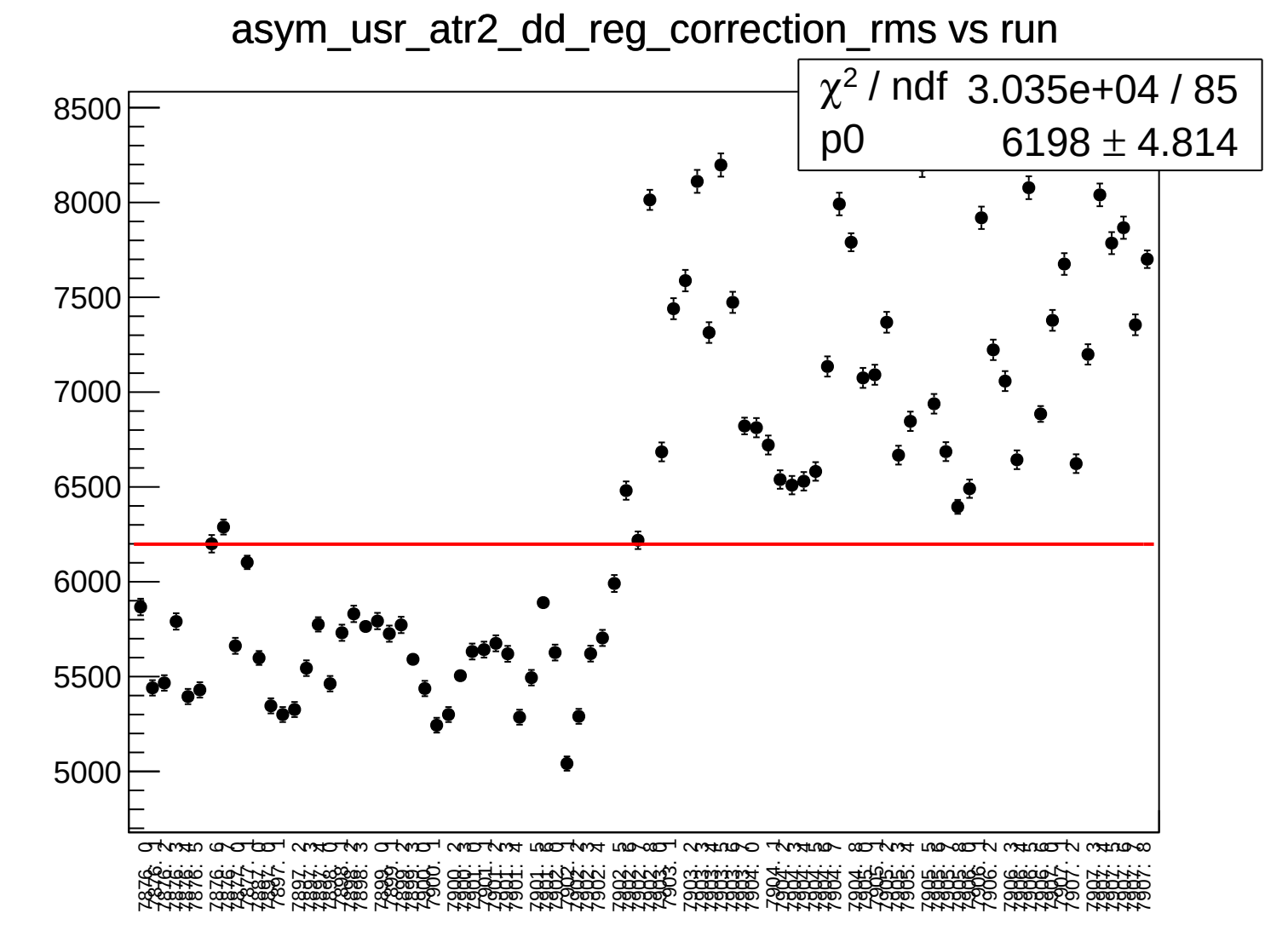

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 72.47 / 85
p0 194.4 ± 1461
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 554.1
Std Dev 0
2
1
0
−1
−2

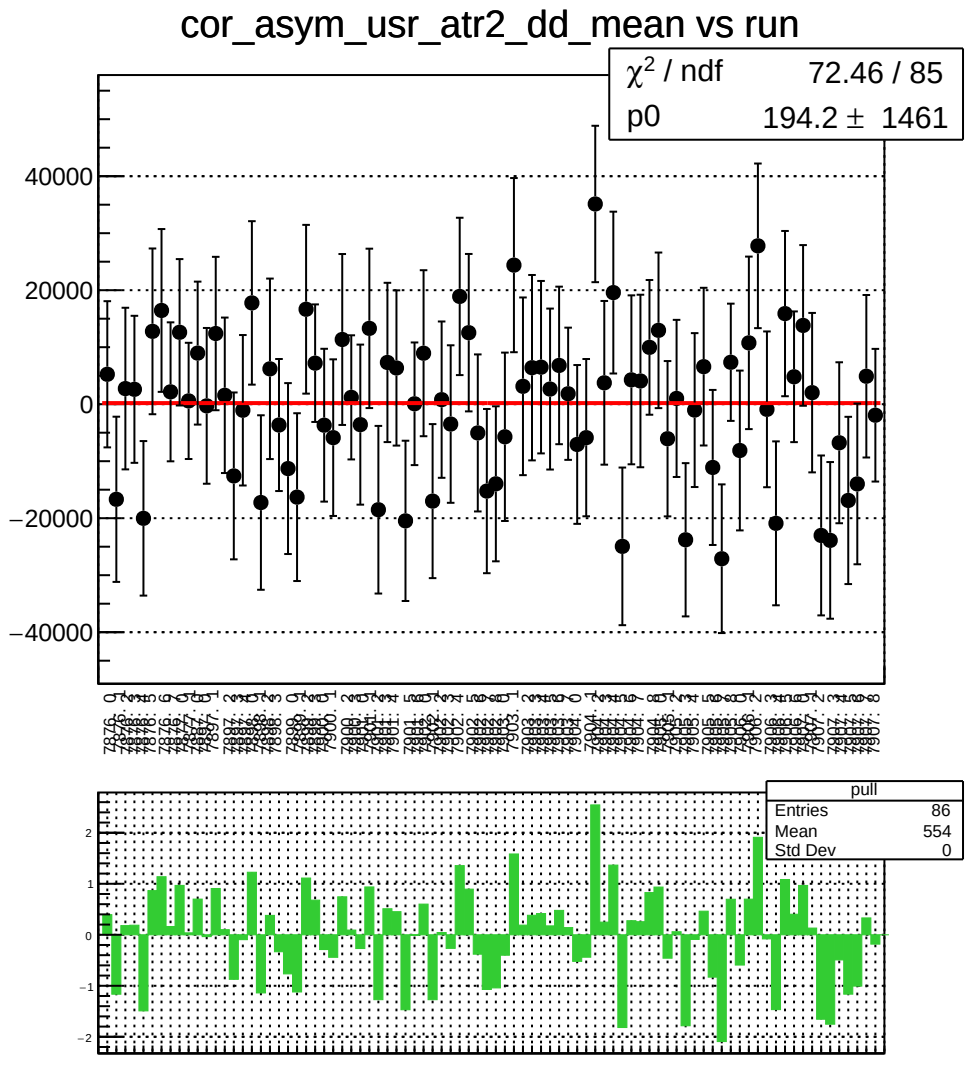

pull1D
Entries 86
Mean −0.004719
Std Dev 0.9179
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

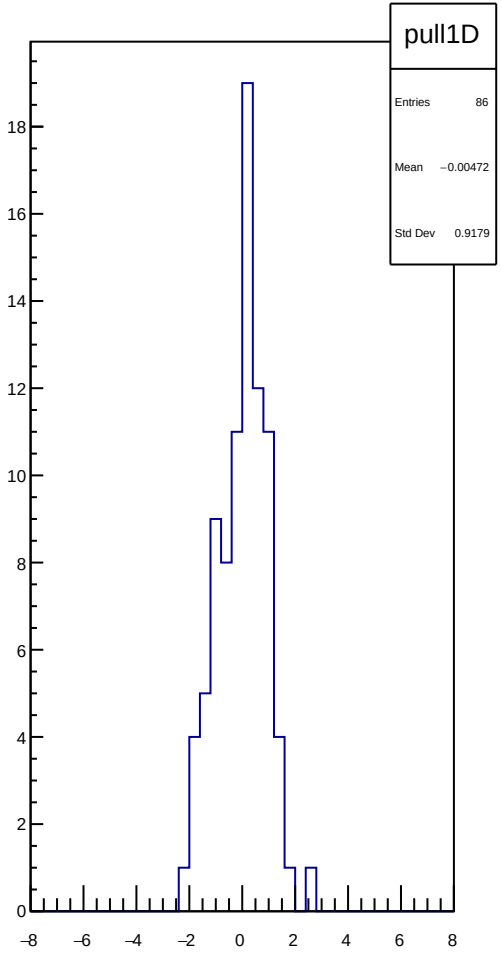

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 3653 / 85
p0 1341 ± 1.033
1550
1500
1450
1400
1350
1300
1250
1200

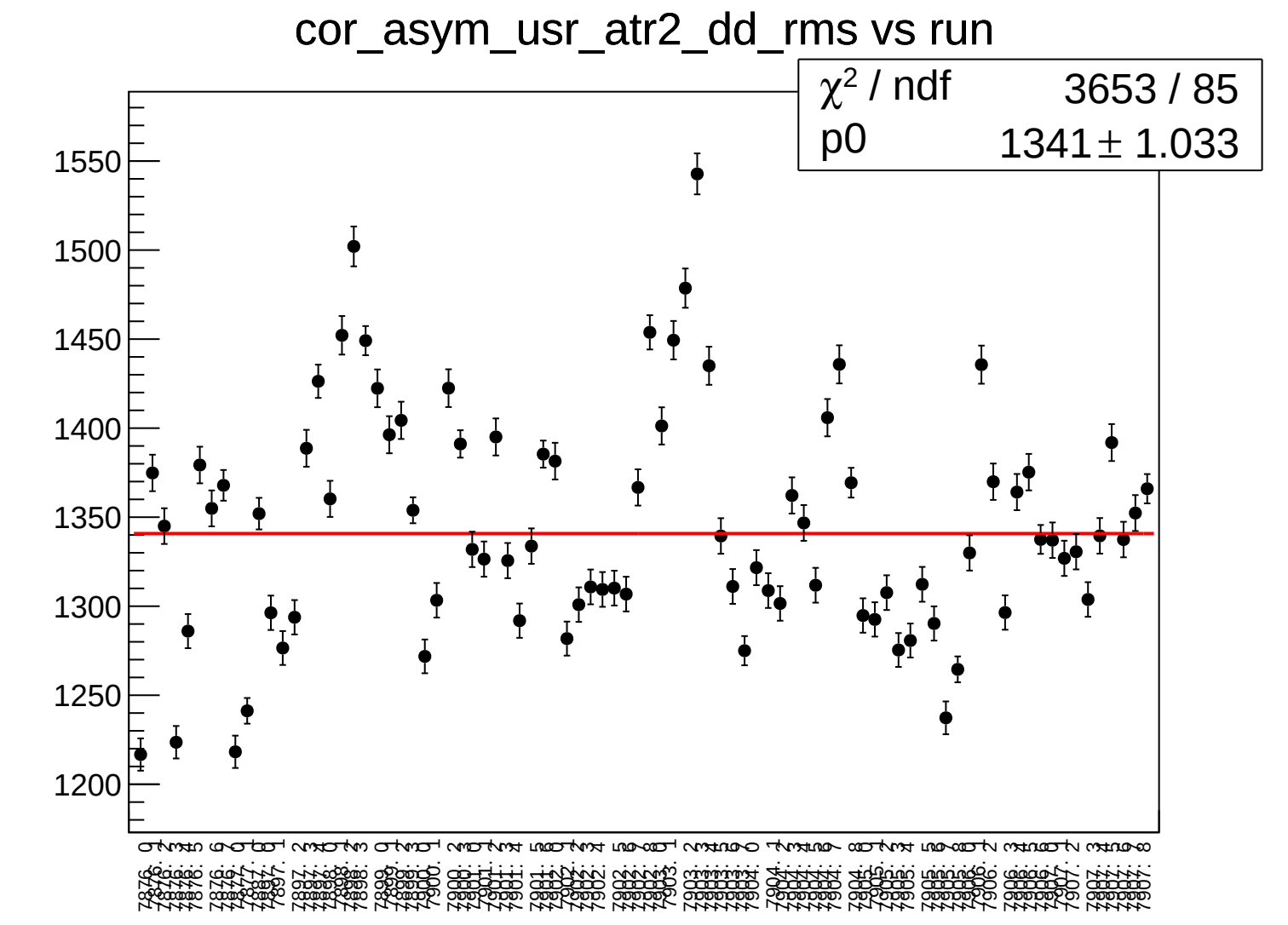

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 72.25 / 85
p0 −9740 ± 6808
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean 618.6
Std Dev 0
3
2
1
0
−1
−2

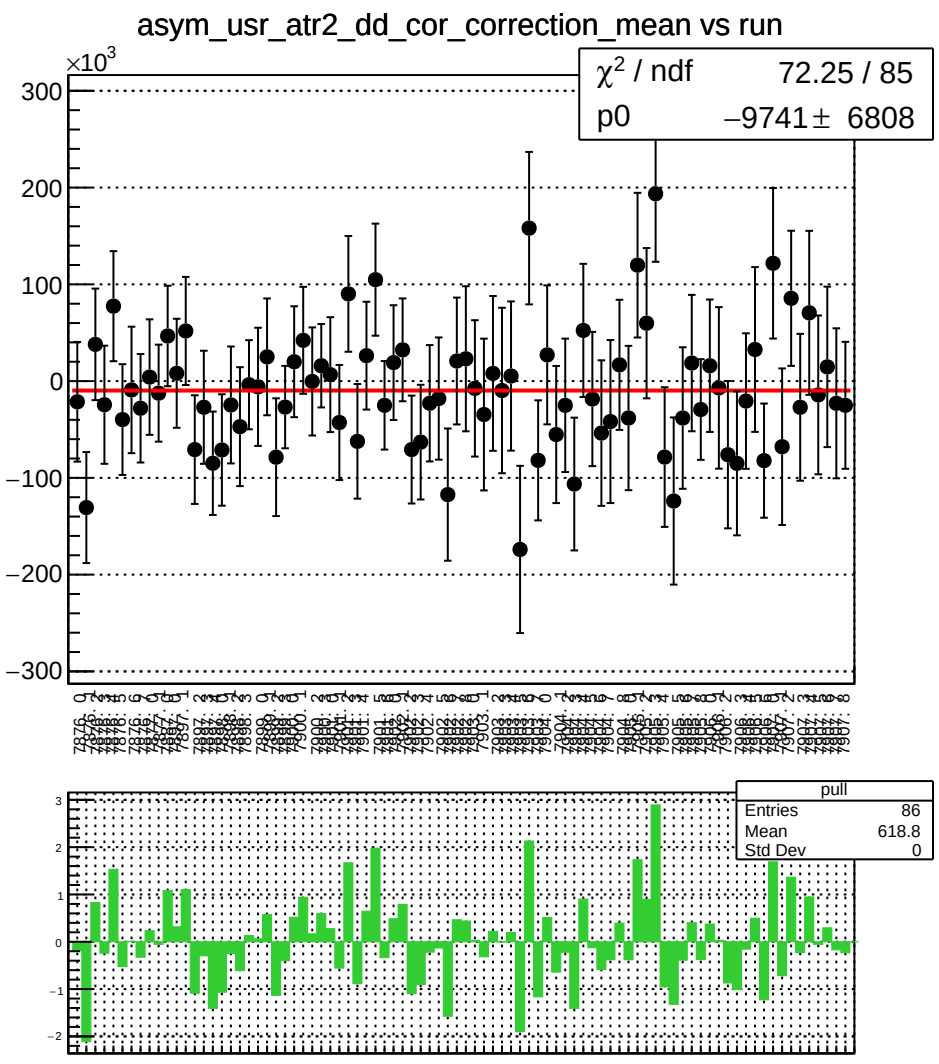

pull1D
Entries 86
Mean 0.001747
Std Dev 0.9165
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

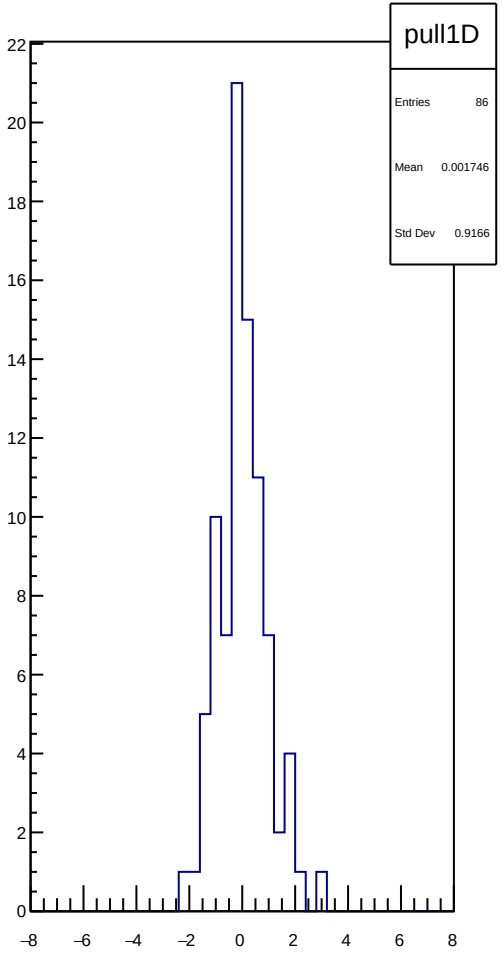

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3.035e+04 / 85
p0 6198 ± 4.814
8500
8000
7500
7000
6500
6000
5500
5000

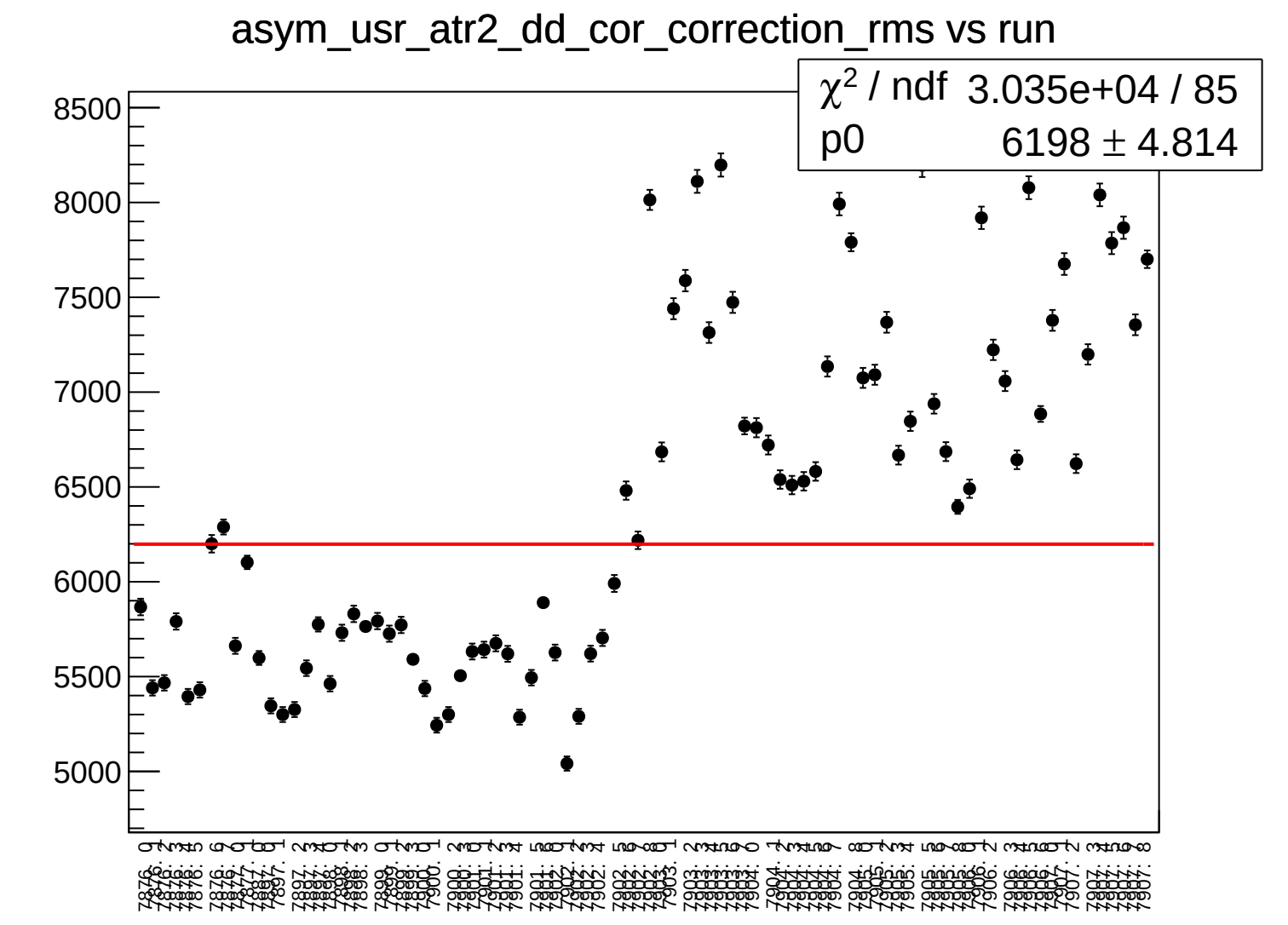

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 72.46 / 85
p0 194.2 ± 1461
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 554
Std Dev 0
2
1
0
−1
−2

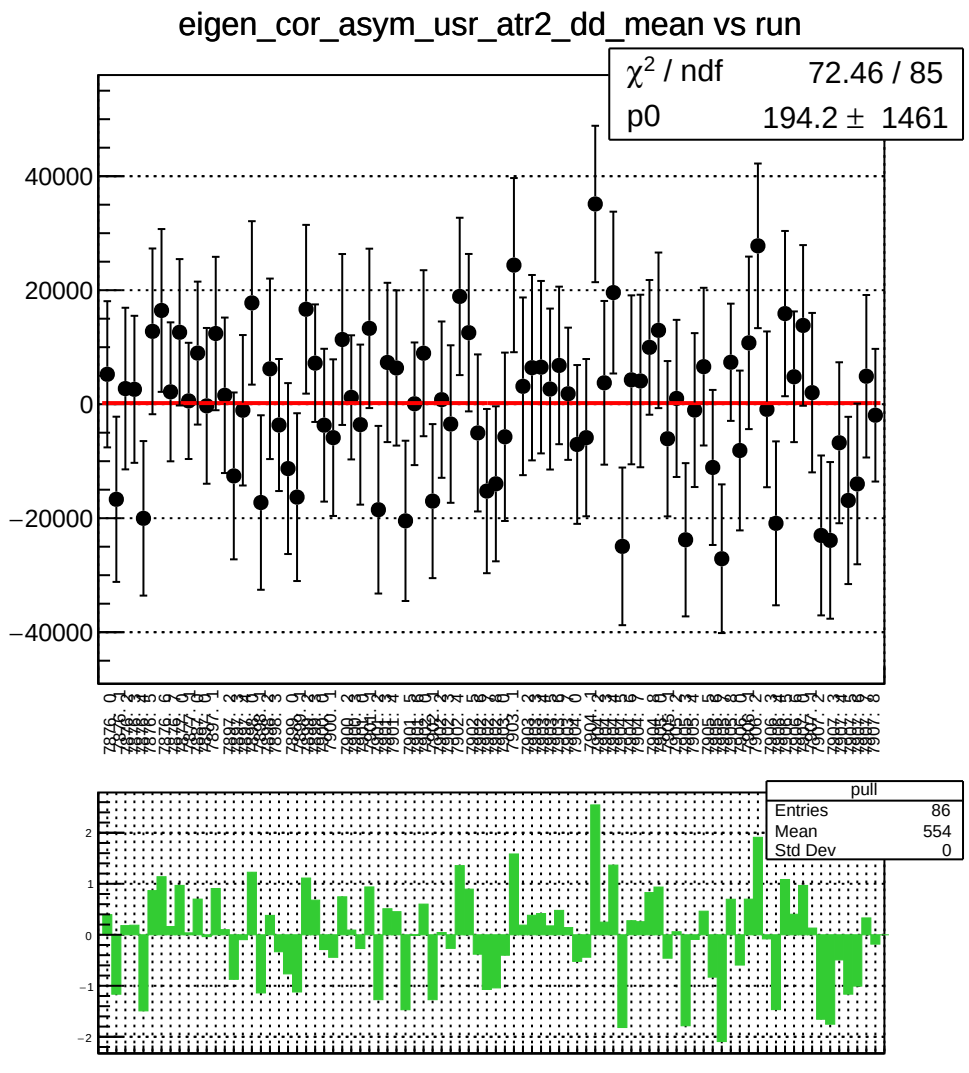

pull1D
Entries 86
Mean −0.00472
Std Dev 0.9179
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

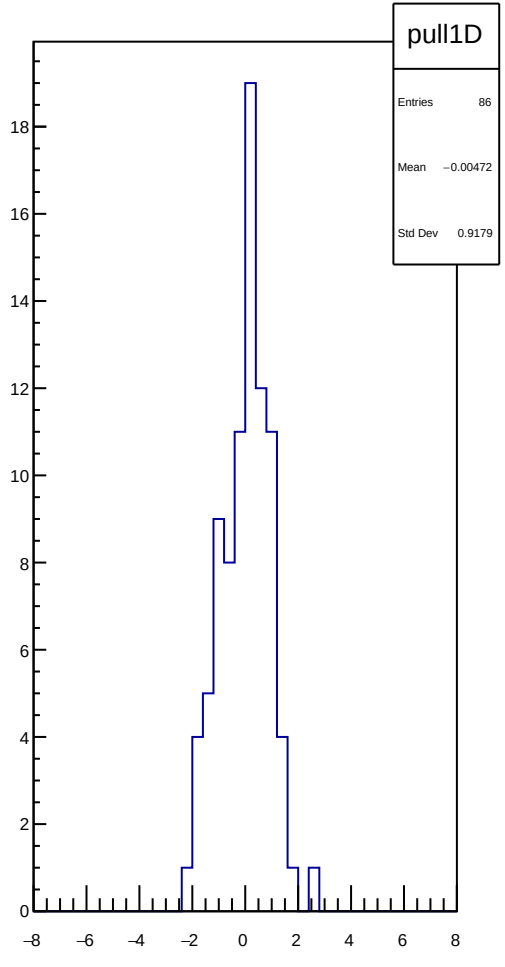

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 3653 / 85
p0 1341 ± 1.033
1550
1500
1450
1400
1350
1300
1250
1200

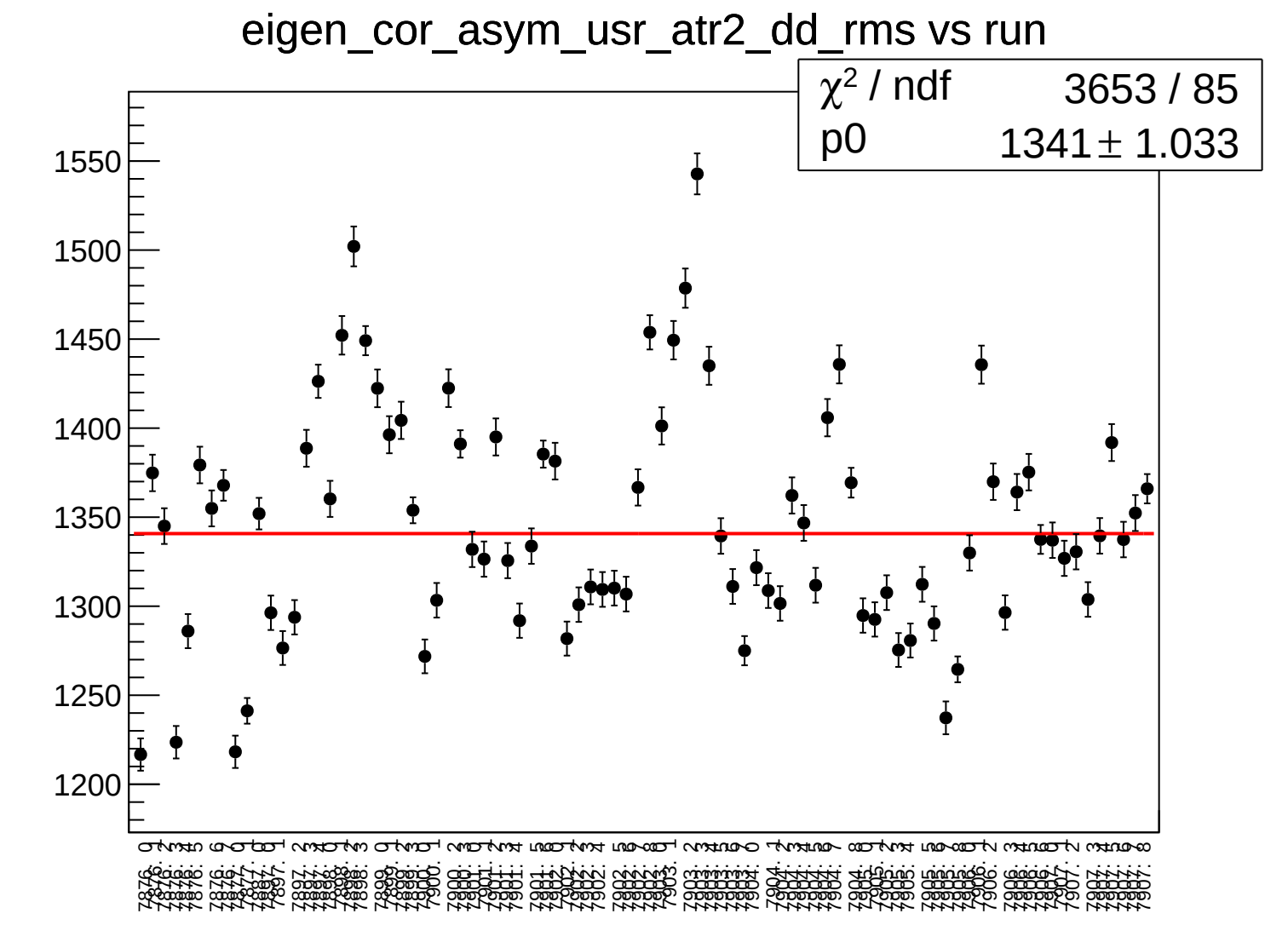

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 72.25 / 85
p0 −9741 ± 6808
pull
Entries 86
Mean 618.8
Std Dev 0

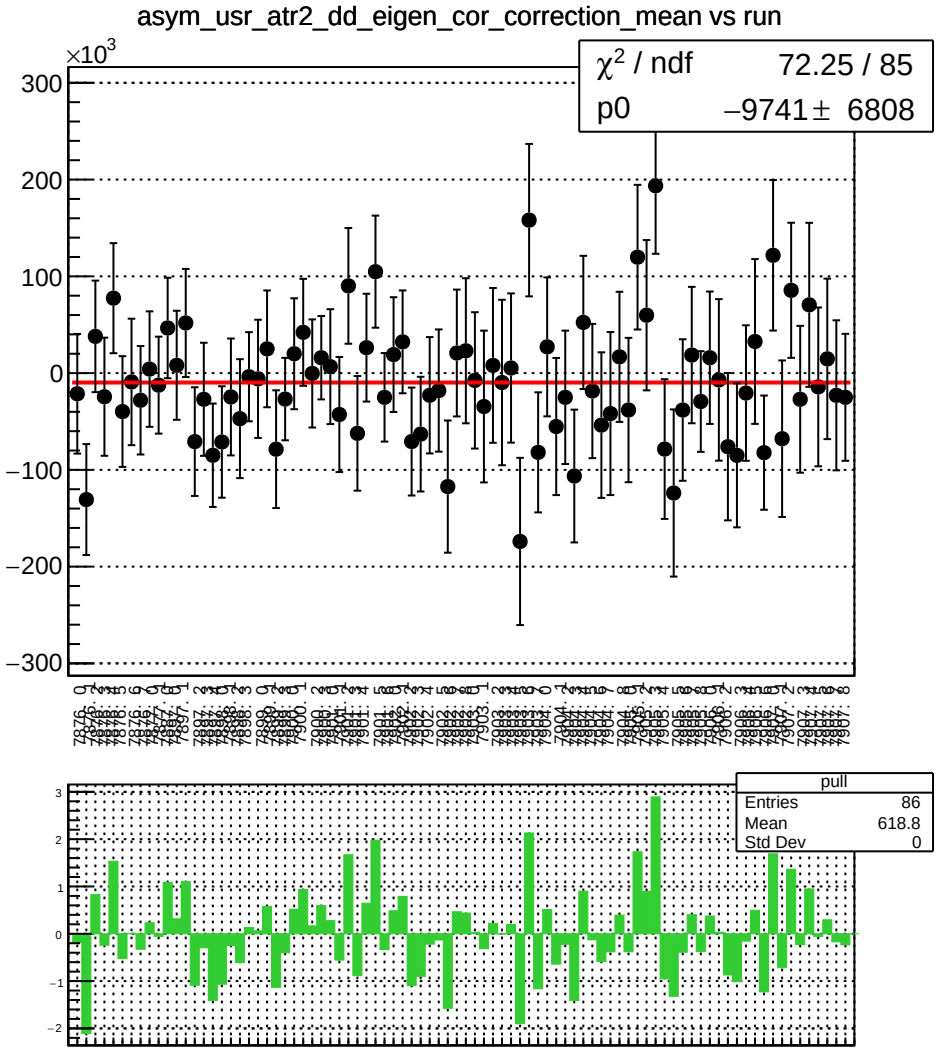

pull1D
Entries 86
Mean 0.001746
Std Dev 0.9166

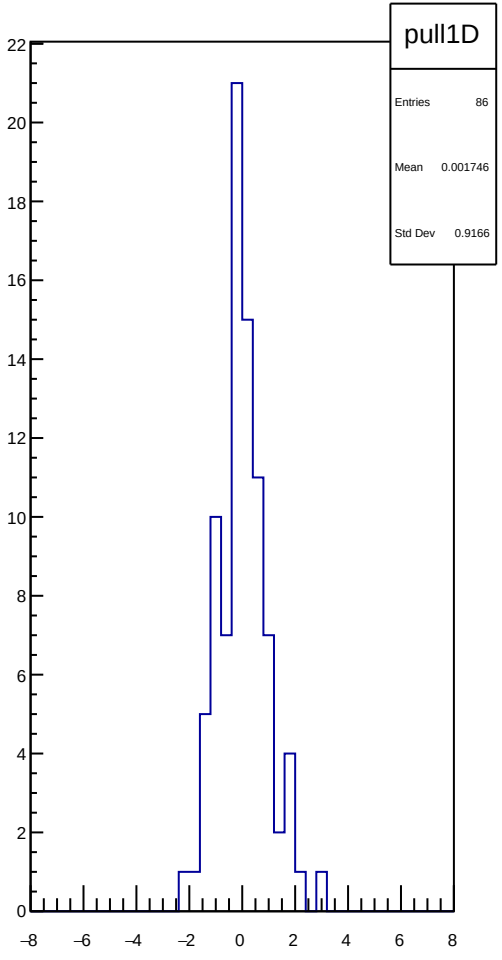

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 3.035e+04 / 85
p0 6198 ± 4.814
8500
8000
7500
7000
6500
6000
5500
5000

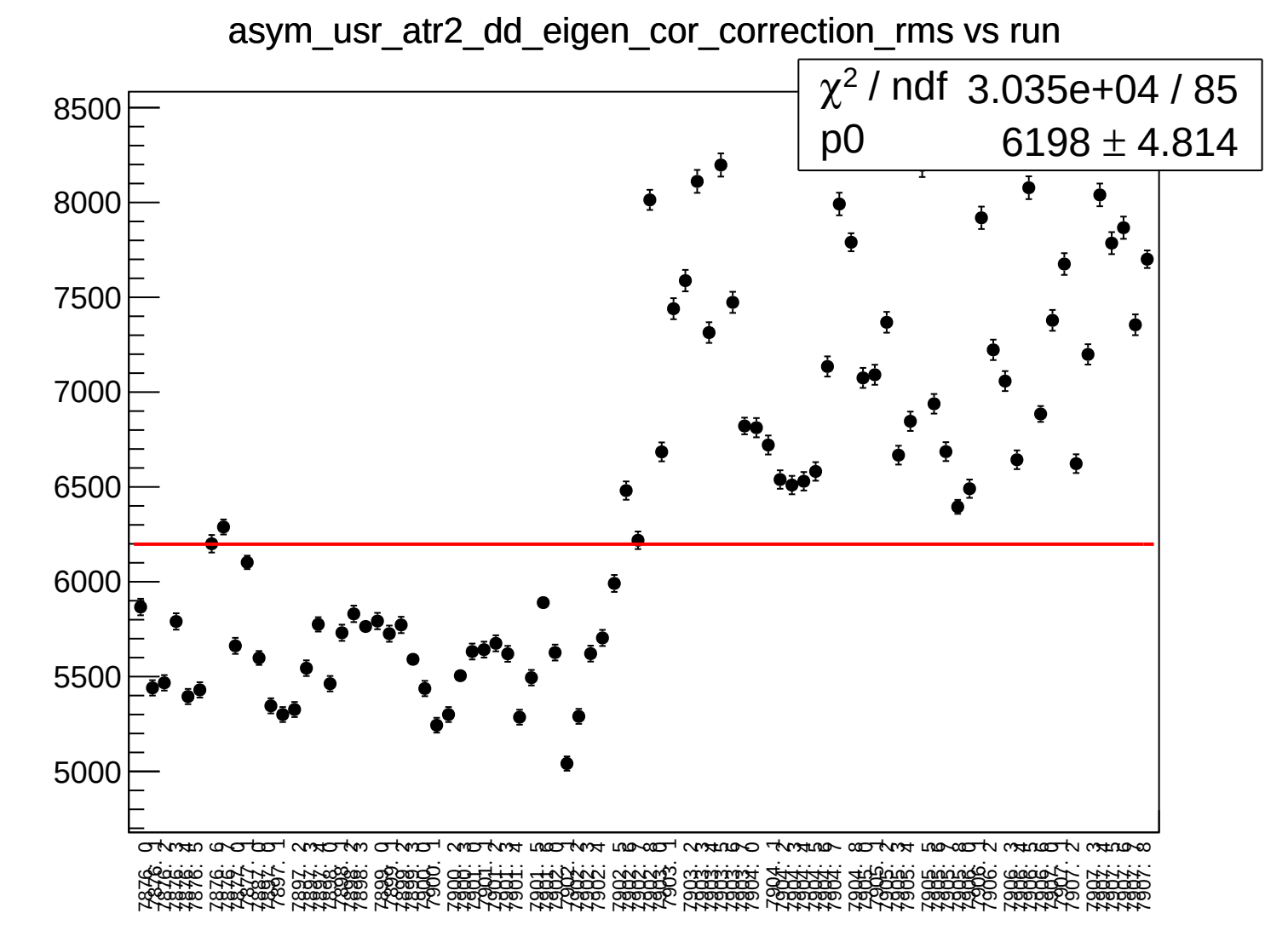

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 72.46 / 85
p0 194.2 ± 1461
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 554
Std Dev 0
2
1
0
−1
−2

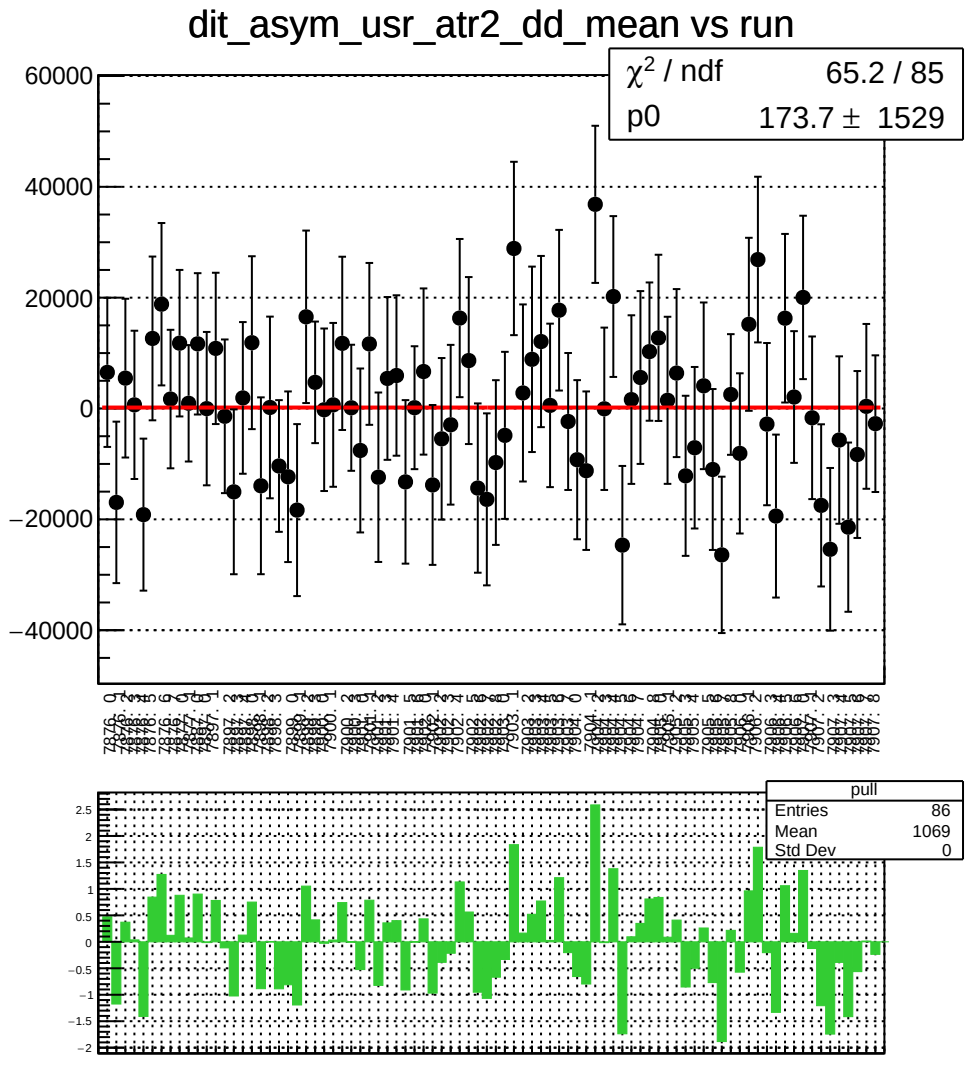

pull1D
Entries 86
Mean −0.00472
Std Dev 0.9179
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

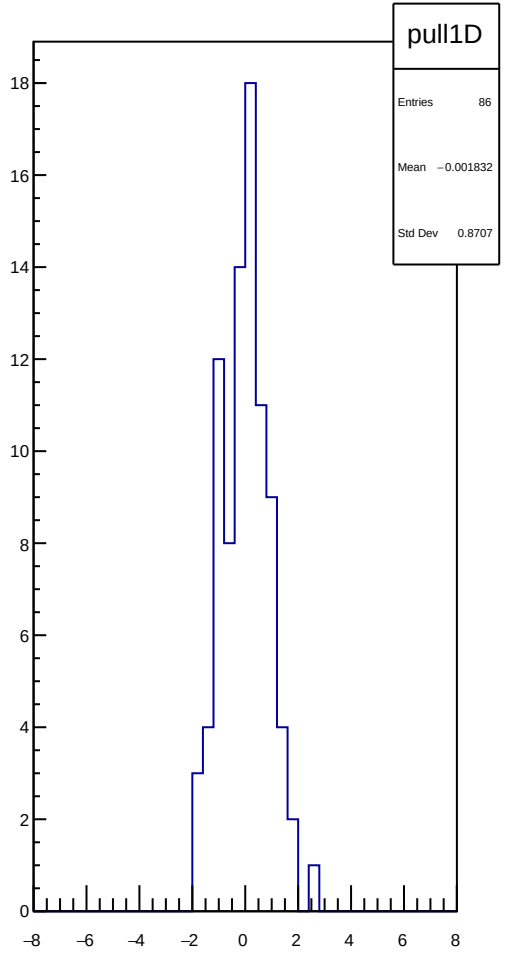

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 3653 / 85
p0 1341 ± 1.033
1550
1500
1450
1400
1350
1300
1250
1200

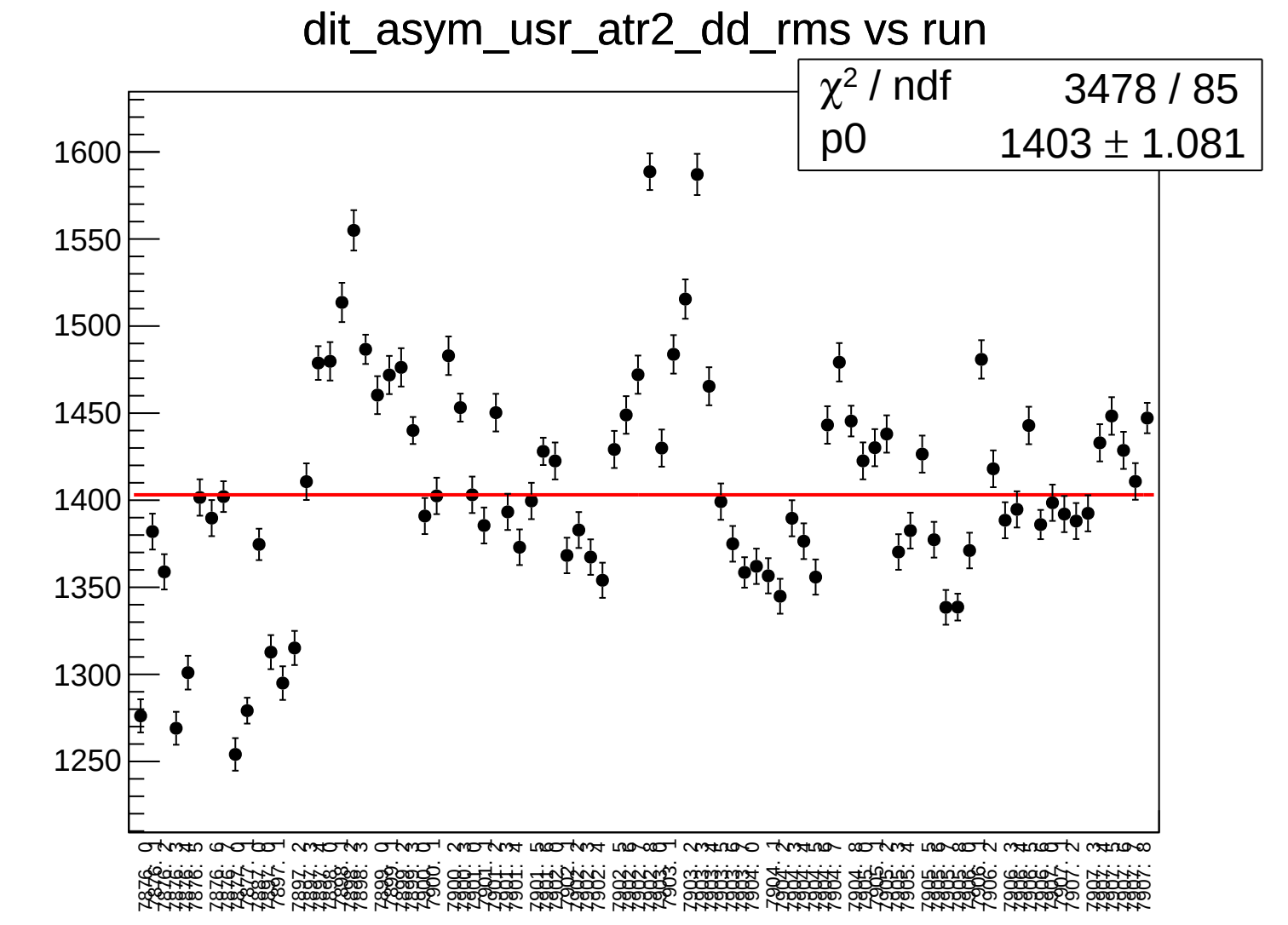

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.25 / 85
p0 −9741 ± 6808
pull
Entries 86
Mean 618.8
Std Dev 0

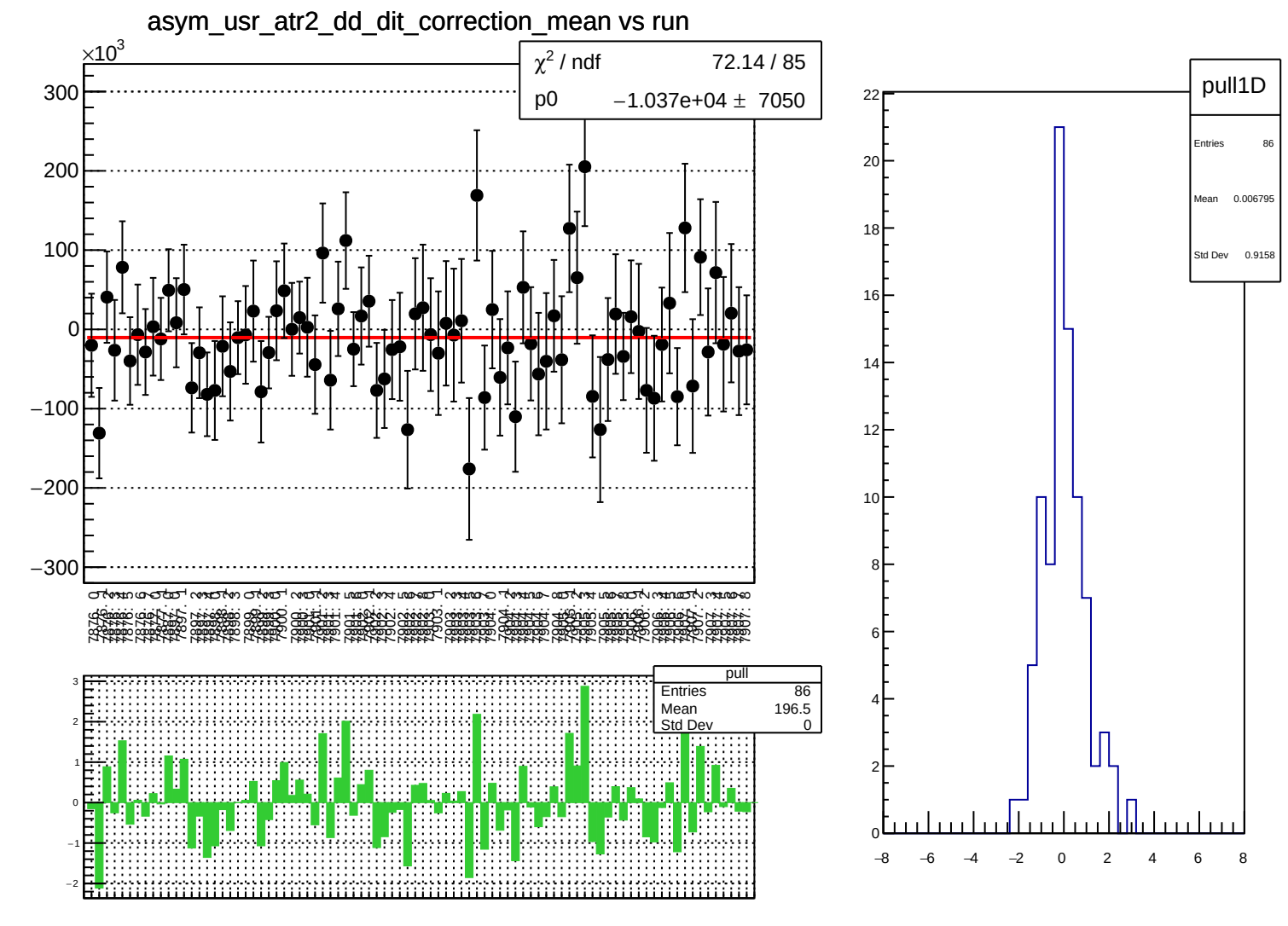

pull1D
Entries 86
Mean 0.001746
Std Dev 0.9166

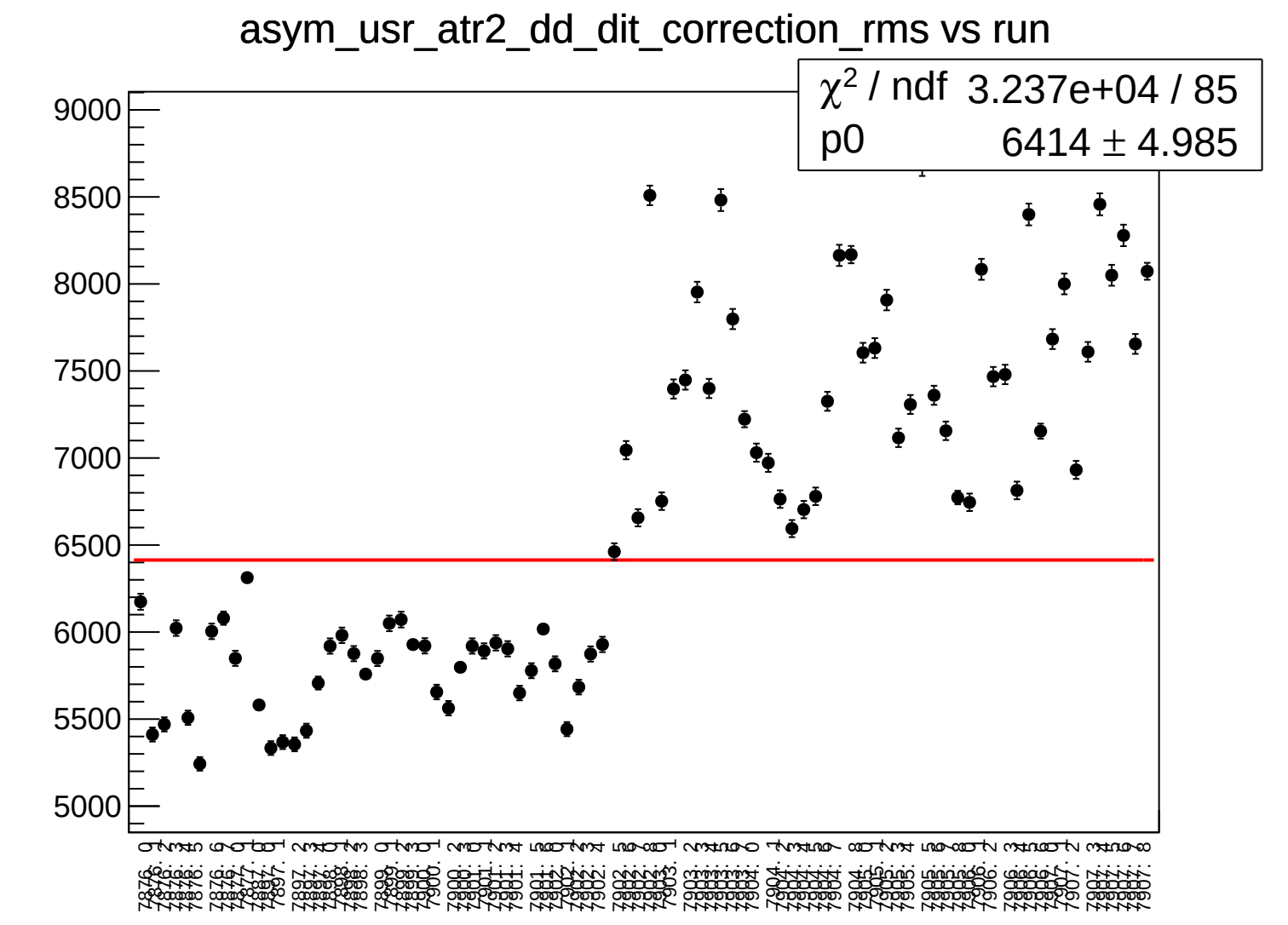

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.035e+04 / 85
p0 6198 ± 4.814
8500
8000
7500
7000
6500
6000
5500
5000

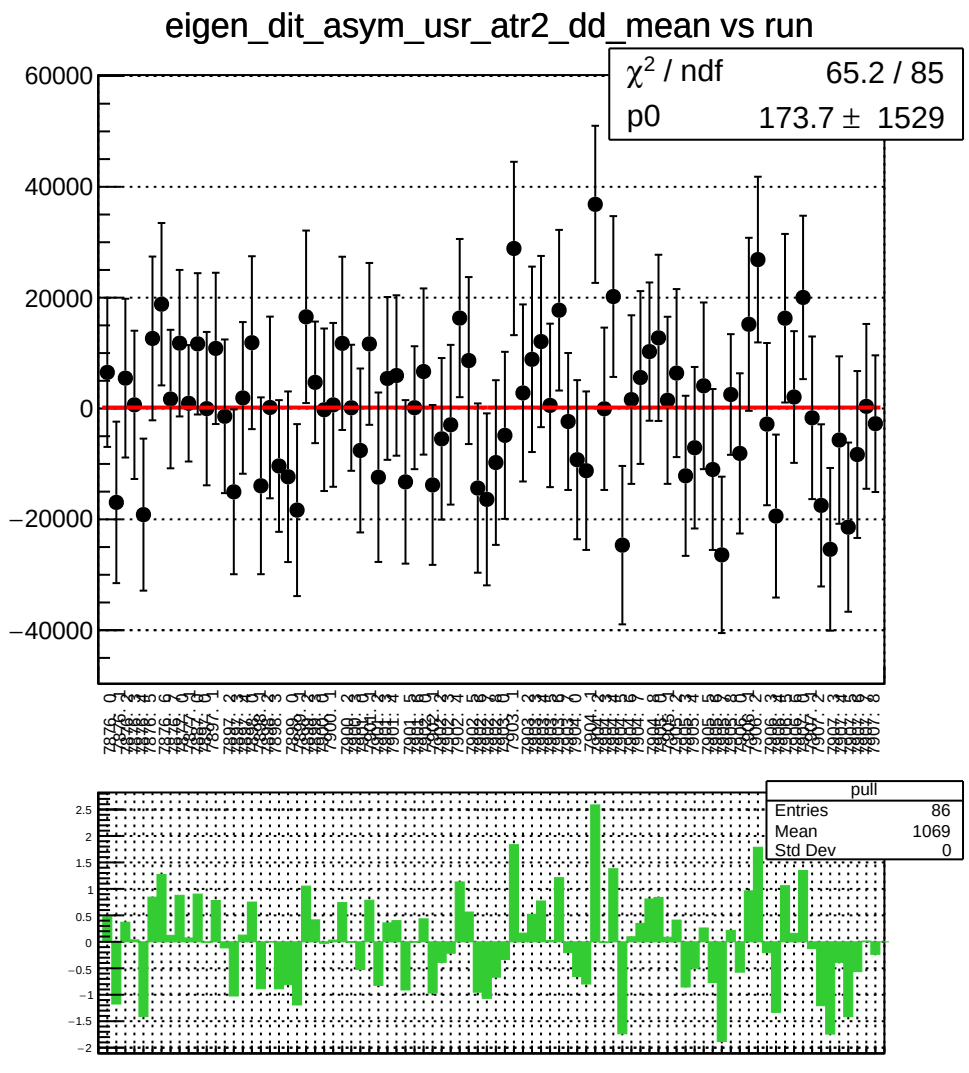

dit_asym_usr_atr2_dd_mean vs run
χ^2 / ndf 65.2 / 85
p0 173.7 ± 1529
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 1069
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

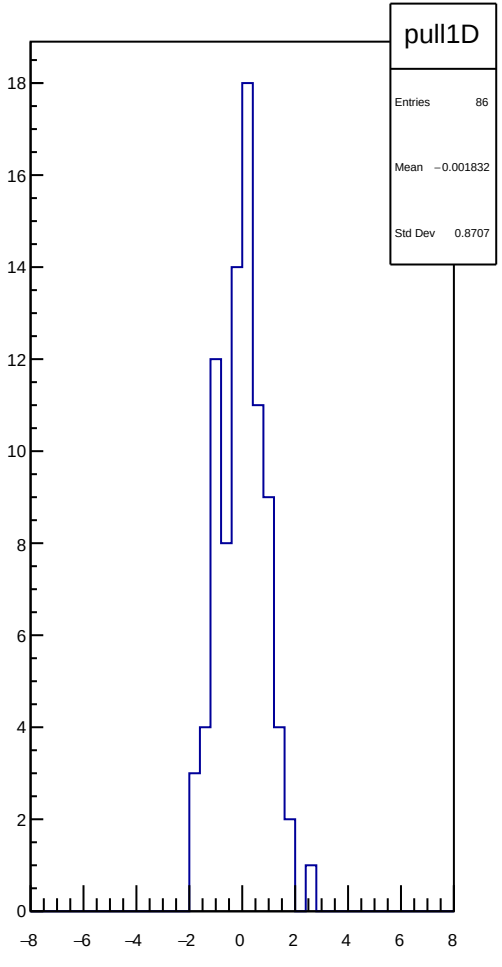

pull1D
Entries 86
Mean −0.001832
Std Dev 0.8707
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

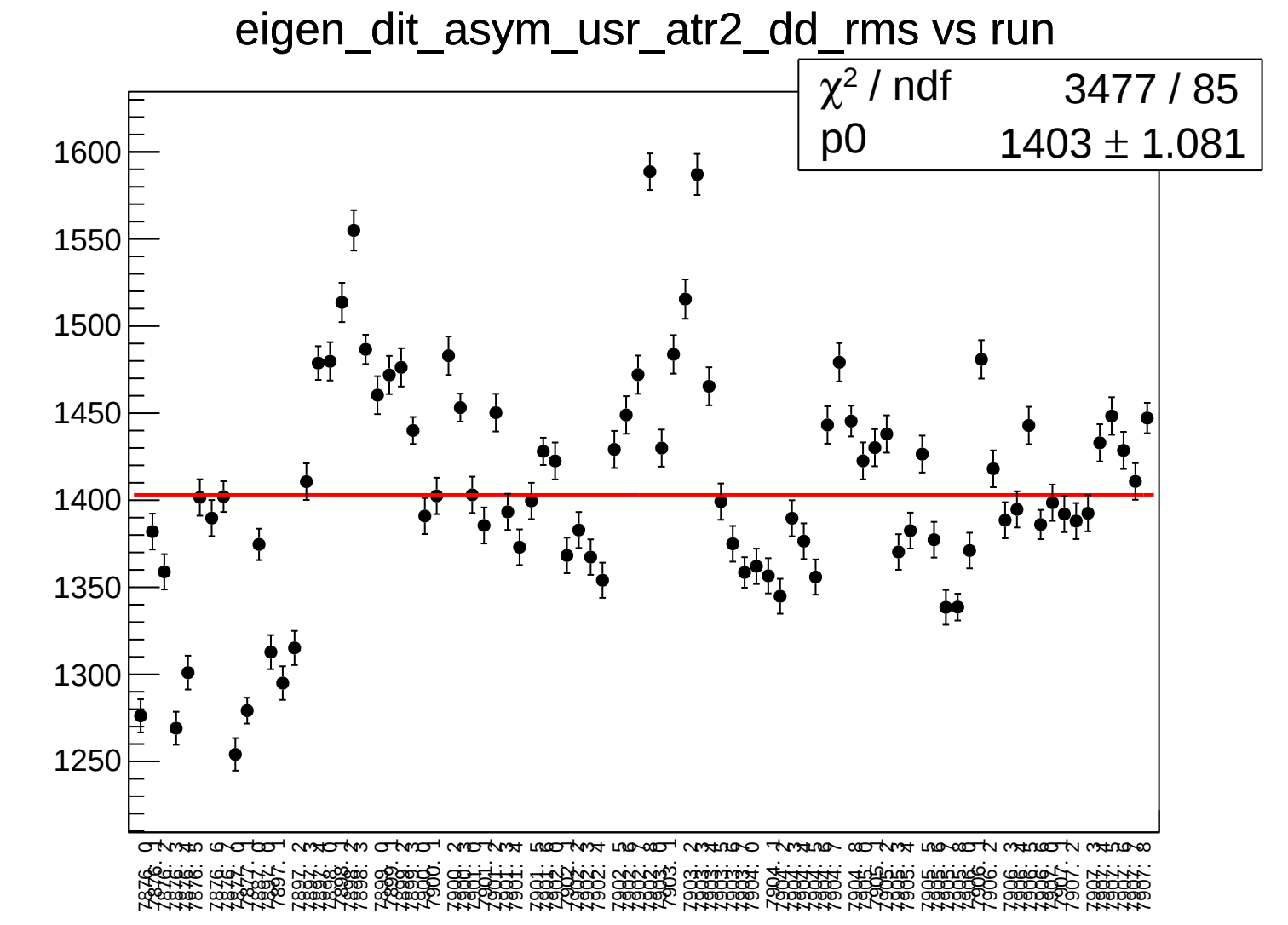

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 3478 / 85
p0 1403 ± 1.081
1600
1550
1500
1450
1400
1350
1300
1250

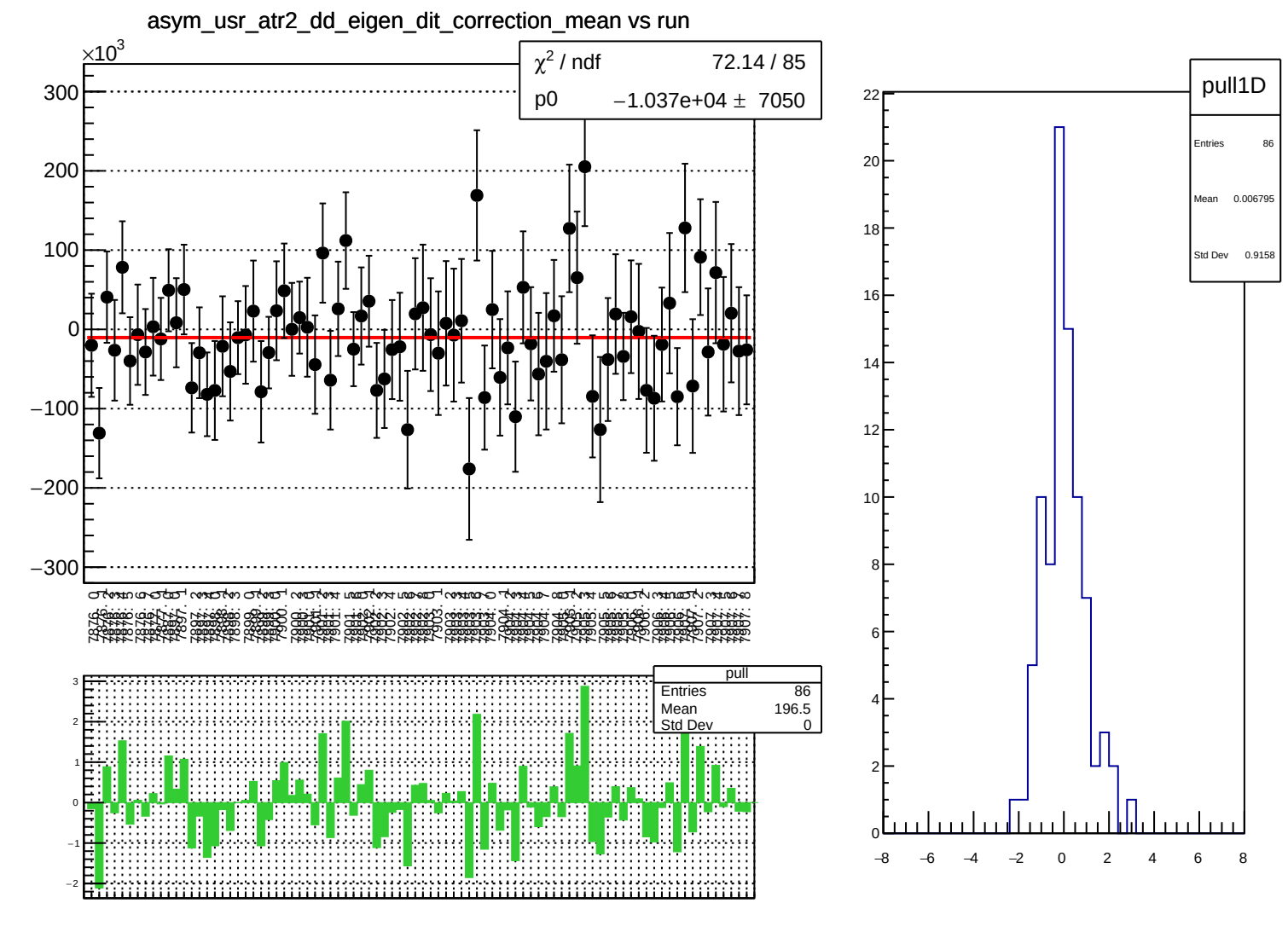

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 72.14 / 85
p0 −1.037e+04 ± 7050
pull
Entries 86
Mean 196.5
Std Dev 0
pull1D
Entries 86
Mean 0.006795
Std Dev 0.9158

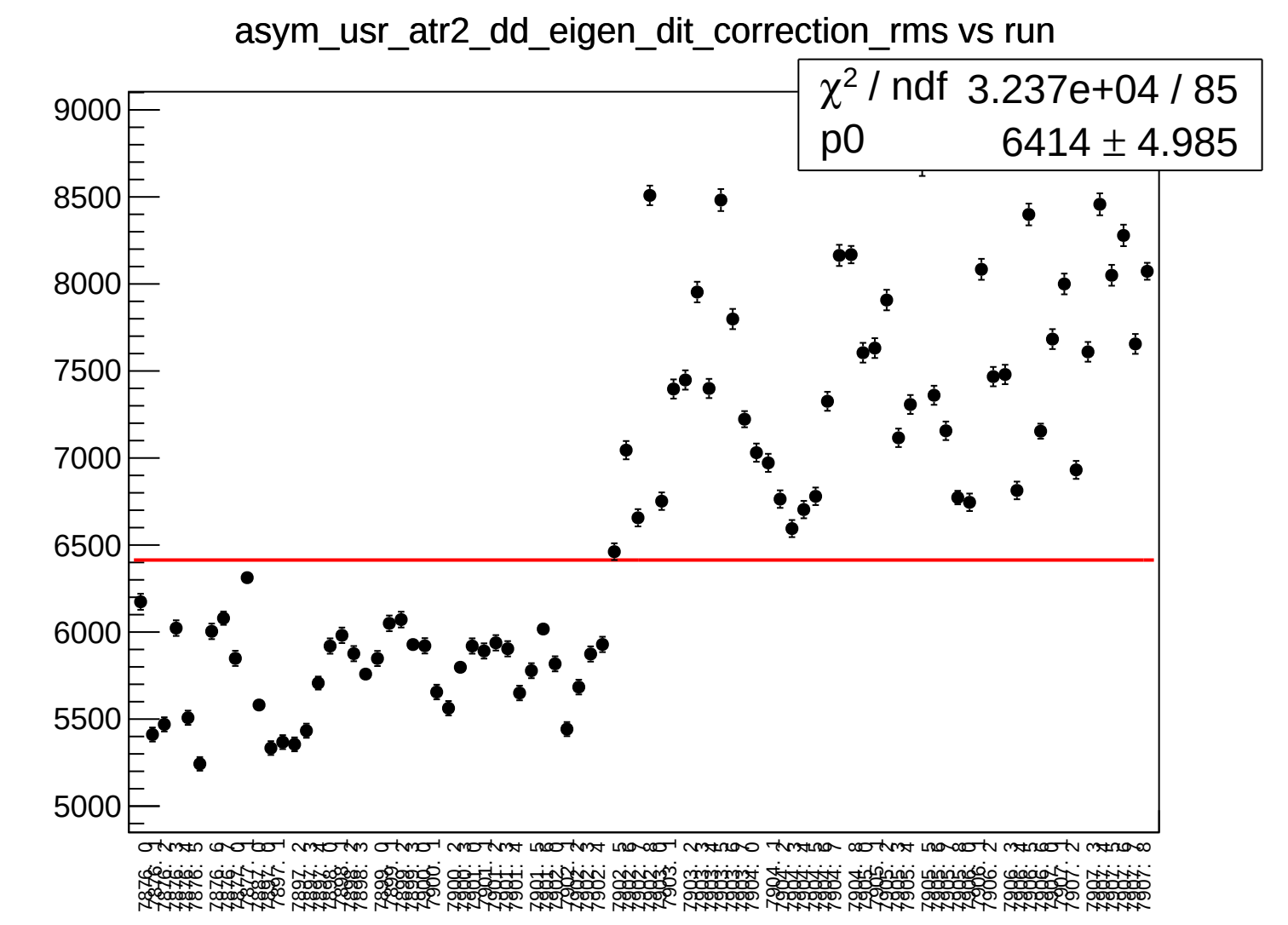

asym_usr_atr2_dd_dit_correction_rms vs run
χ^2 / ndf 3.237e+04 / 85
p0 6414 ± 4.985
9000
8500
8000
7500
7000
6500
6000
5500
5000

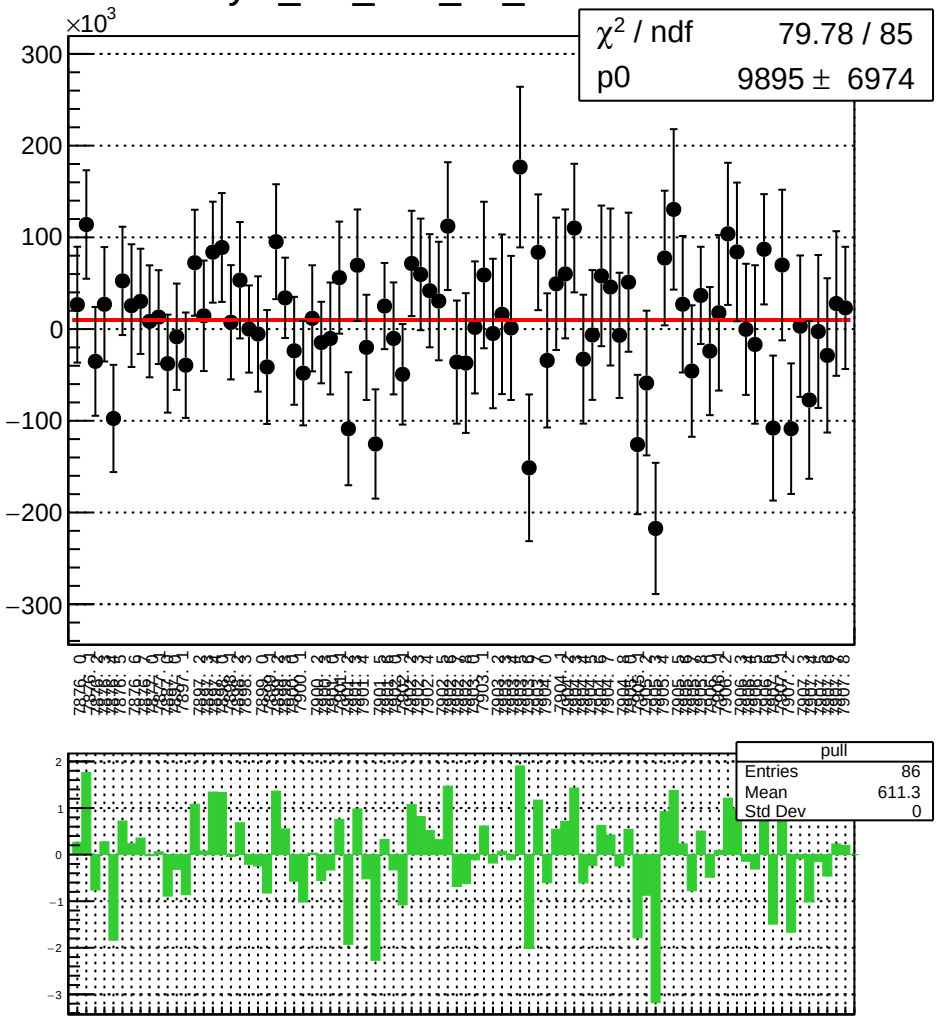

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 65.2 / 85
p0 173.7 ± 1529
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 1069
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

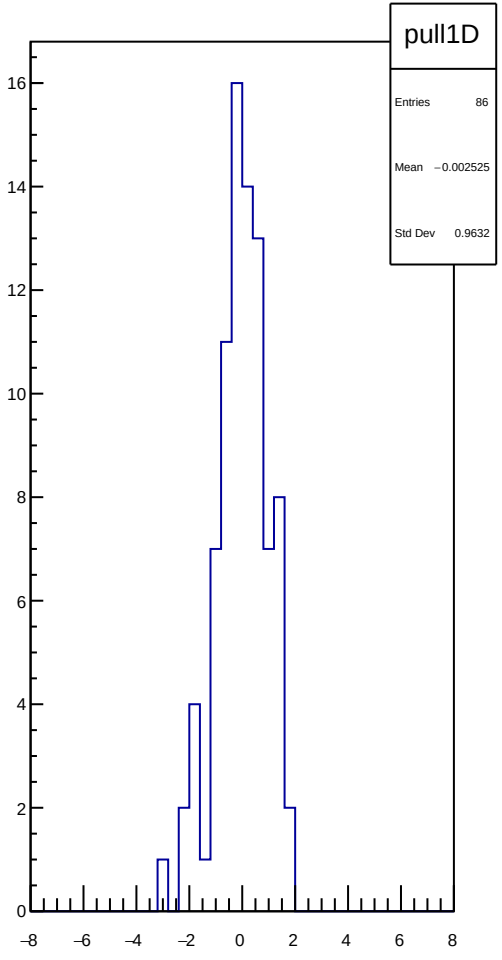

pull1D
Entries 86
Mean −0.001832
Std Dev 0.8707
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

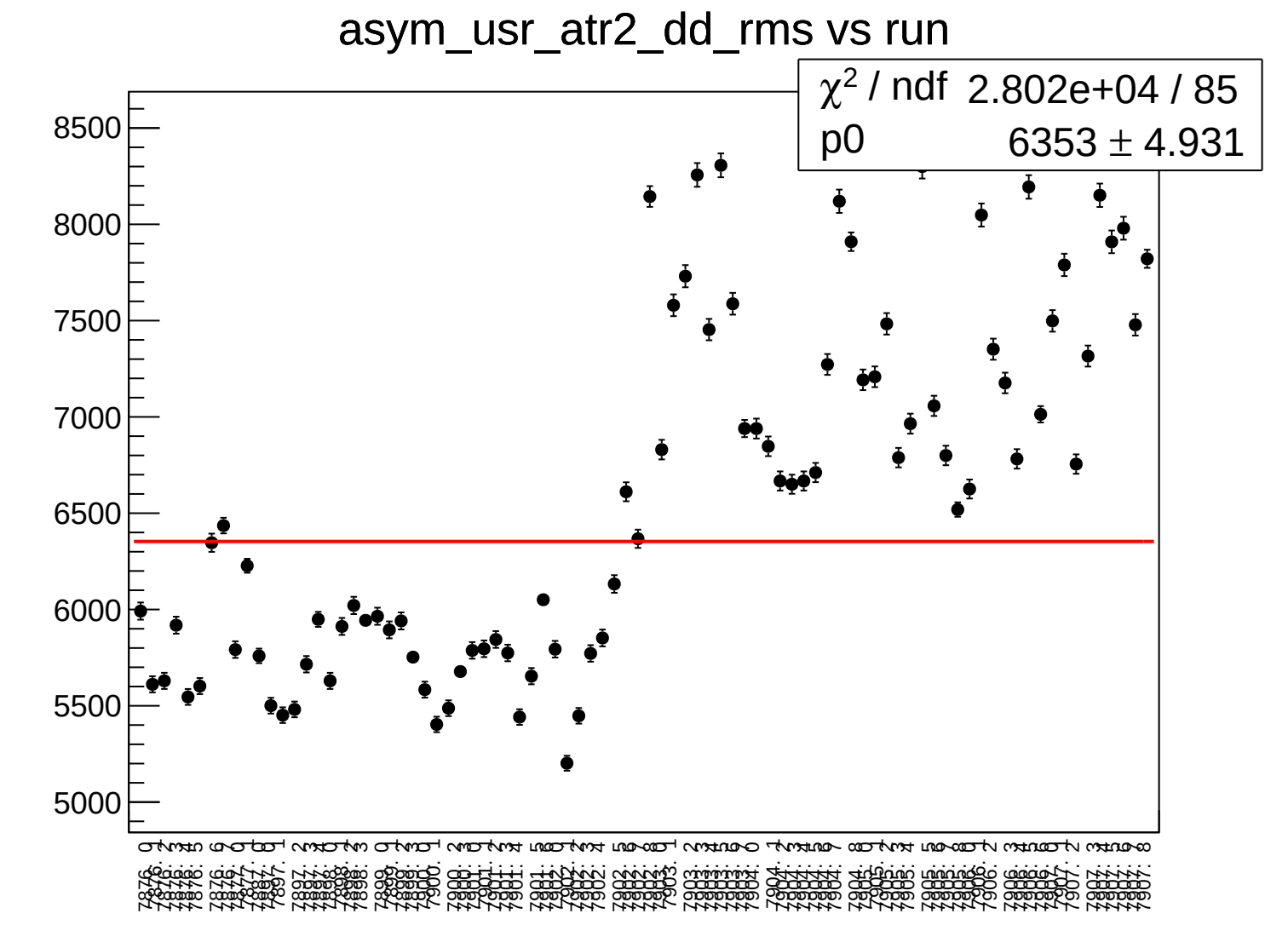

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 3477 / 85
p0 1403 ± 1.081
1600
1550
1500
1450
1400
1350
1300
1250

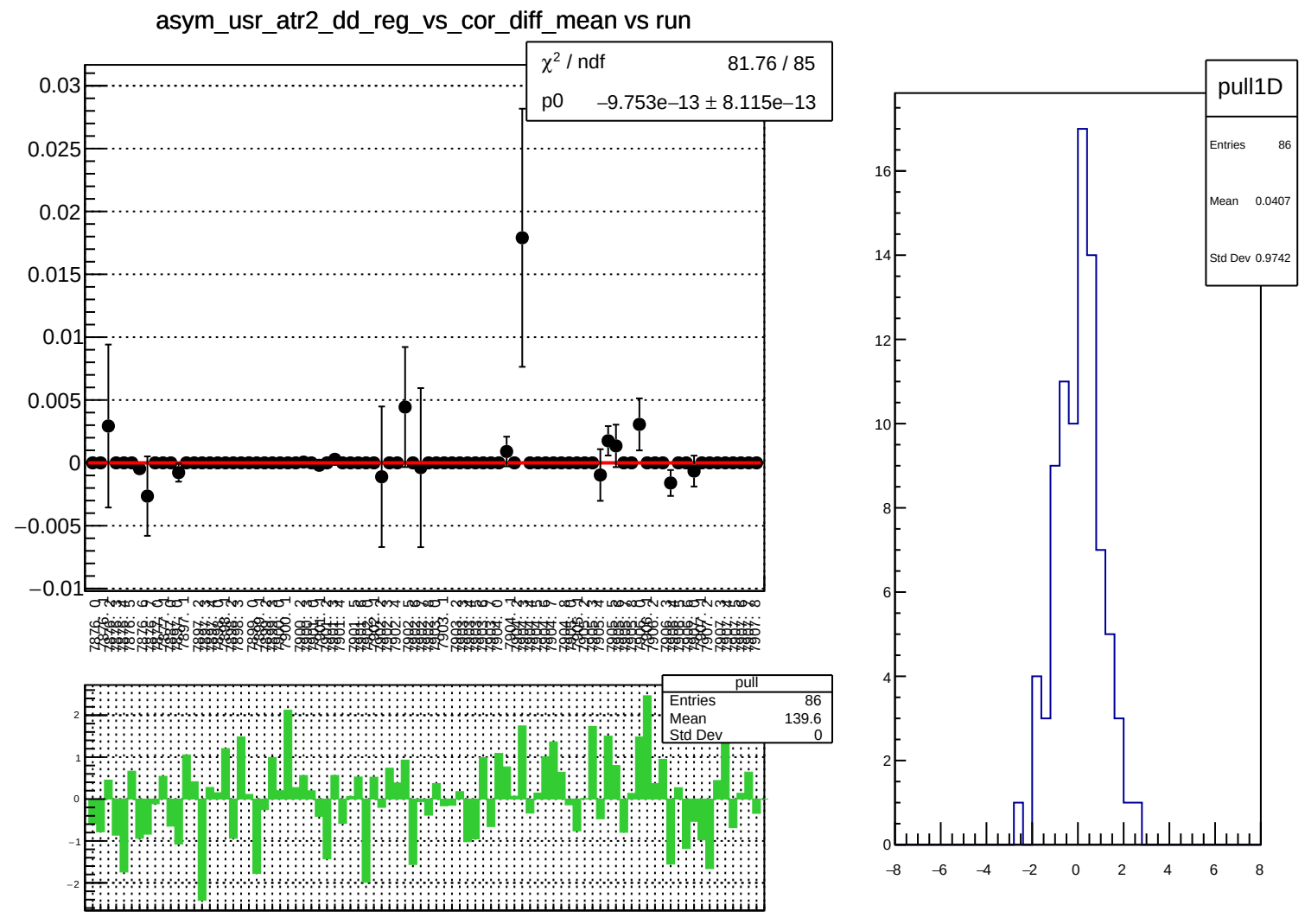

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.14 / 85
p0 −1.037e+04 ± 7050
pull
Entries 86
Mean 196.5
Std Dev 0
pull1D
Entries 86
Mean 0.006795
Std Dev 0.9158

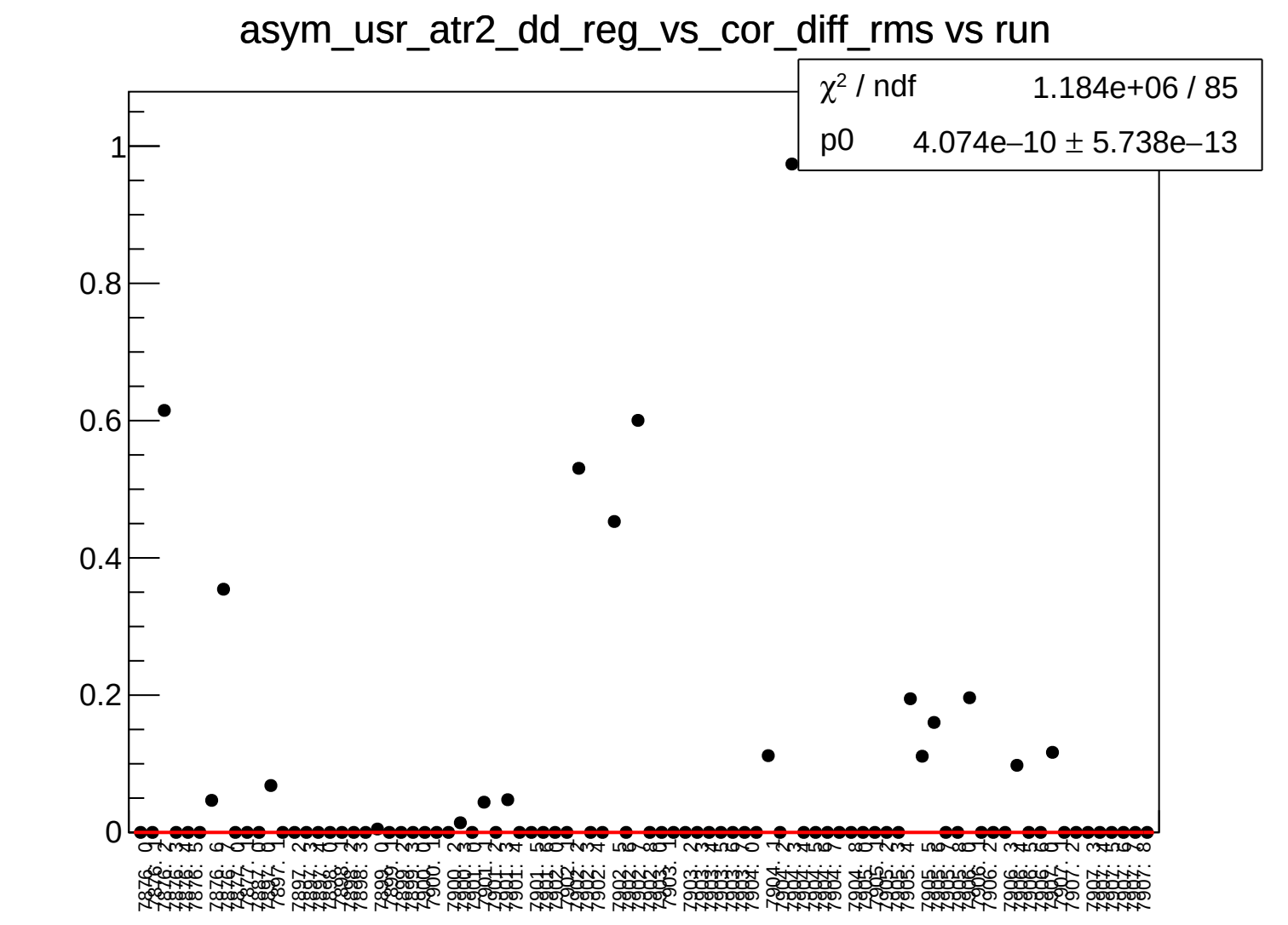

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3.237e+04 / 85
p0 6414 ± 4.985
9000
8500
8000
7500
7000
6500
6000
5500
5000

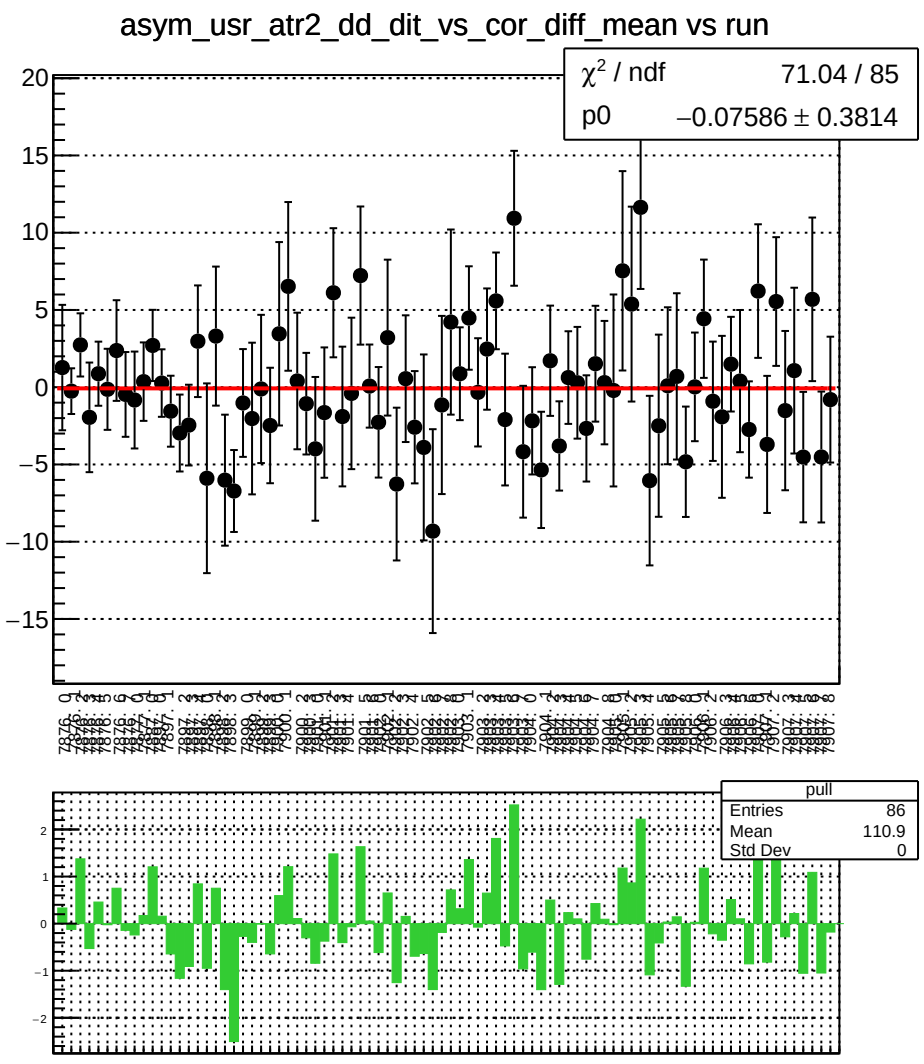

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 79.78 / 85
p0 9895 ± 6974
pull
Entries 86
Mean 611.3
Std Dev 0

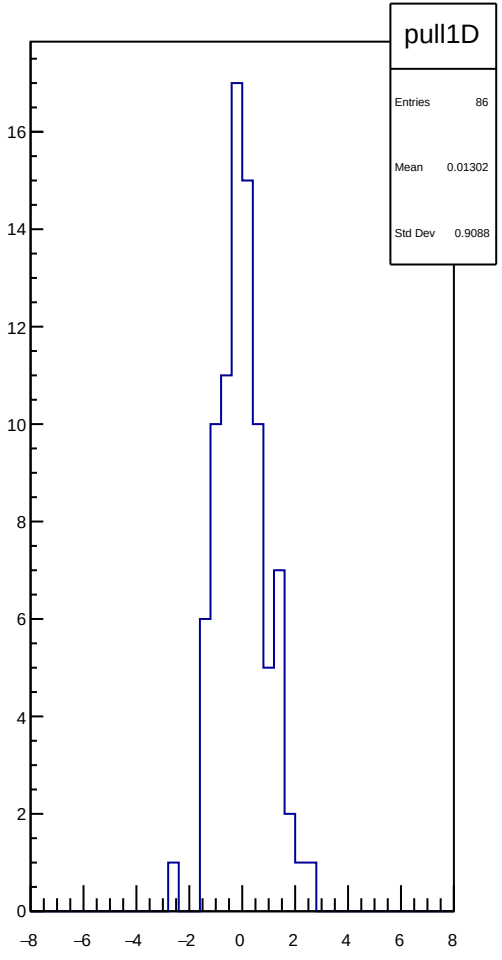

pull1D
Entries 86
Mean −0.002525
Std Dev 0.9632

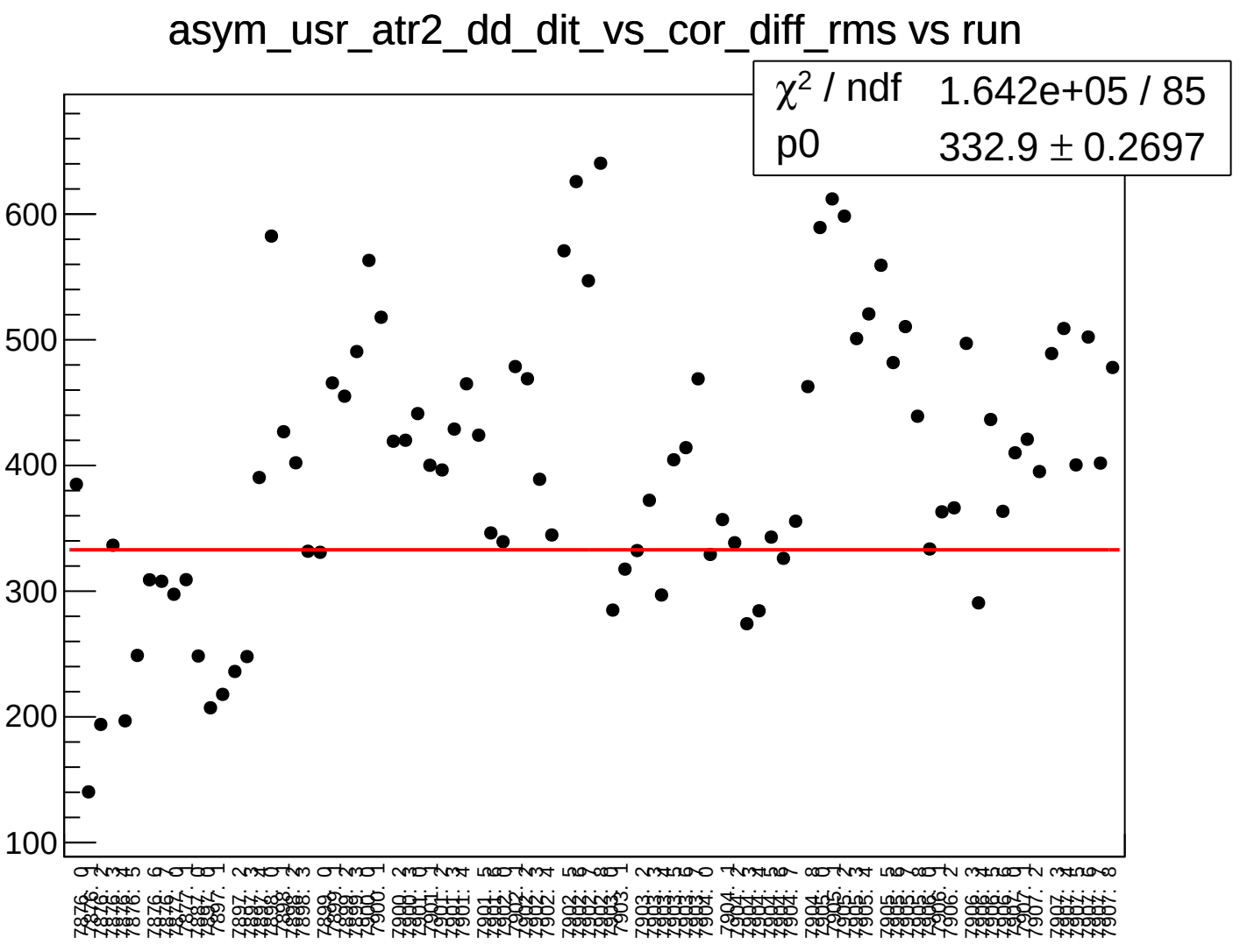

asym_usr_atr2_dd_rms vs run
χ² / ndf 2.802e+04 / 85
p0 6353 ± 4.931
8500
8000
7500
7000
6500
6000
5500
5000

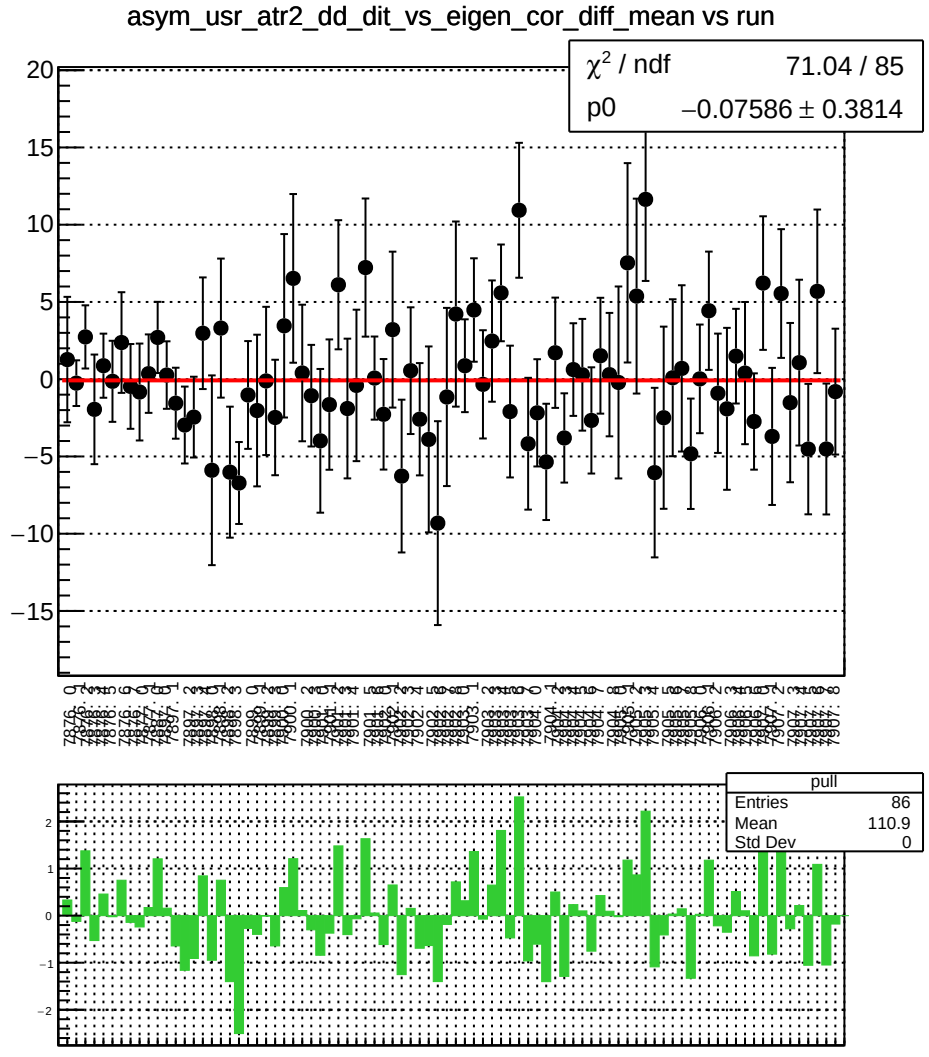

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.76 / 85
p0 −9.753e−13 ± 8.115e−13
pull
Entries 86
Mean 139.6
Std Dev 0
pull1D
Entries 86
Mean 0.0407
Std Dev 0.9742

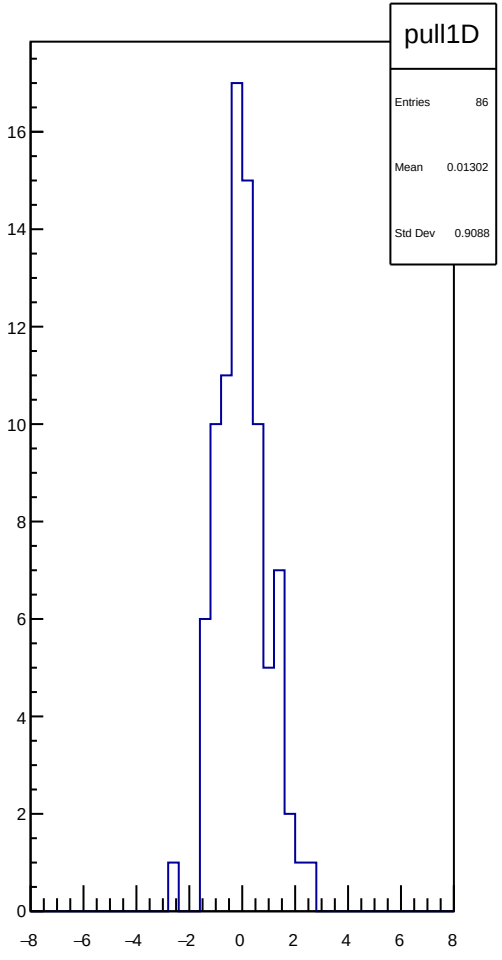

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.184e+06 / 85
p0 4.074e−10 ± 5.738e−13
1
0.8
0.6
0.4
0.2
0

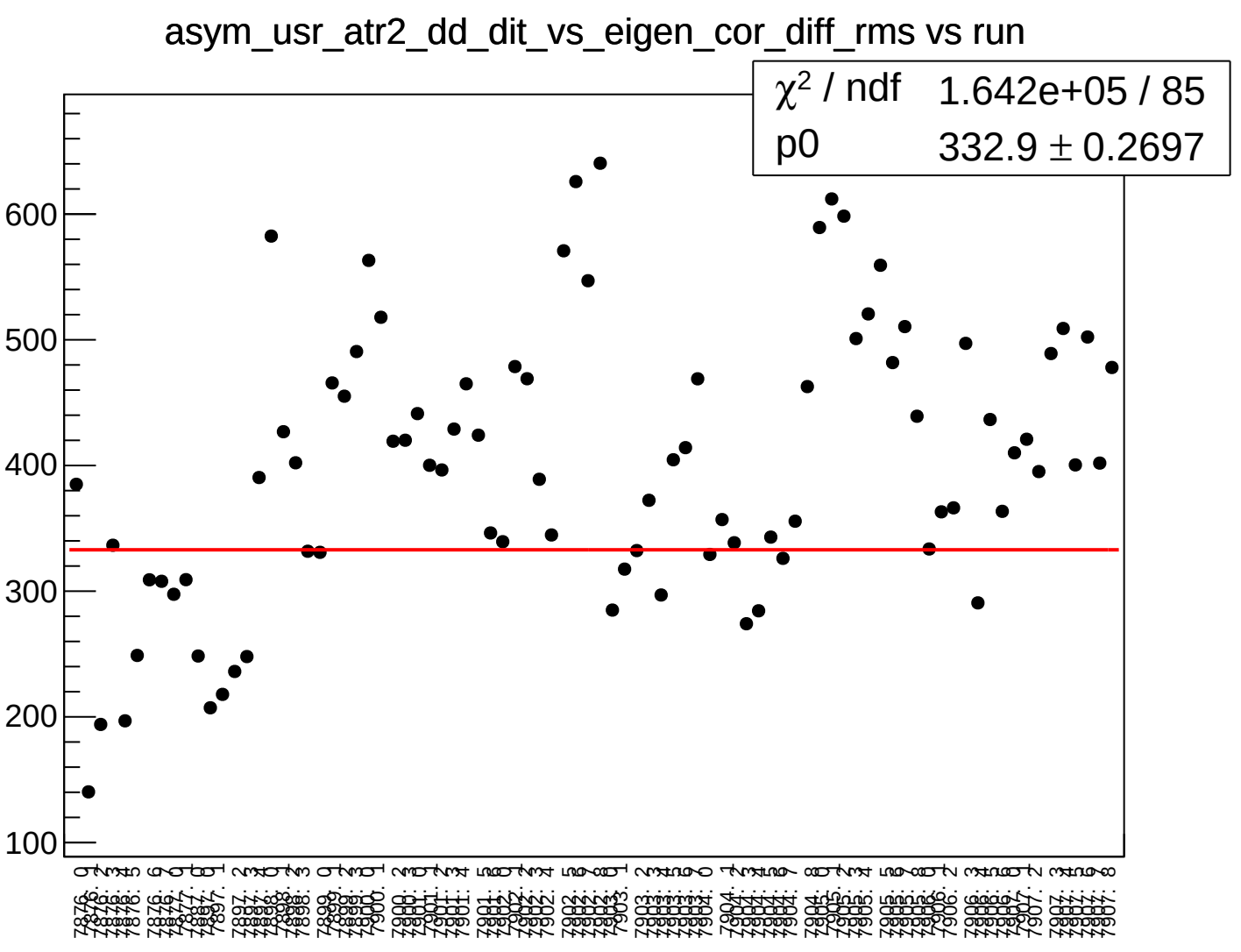

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.04 / 85
p0 −0.07586 ± 0.3814
pull
Entries 86
Mean 110.9
Std Dev 0

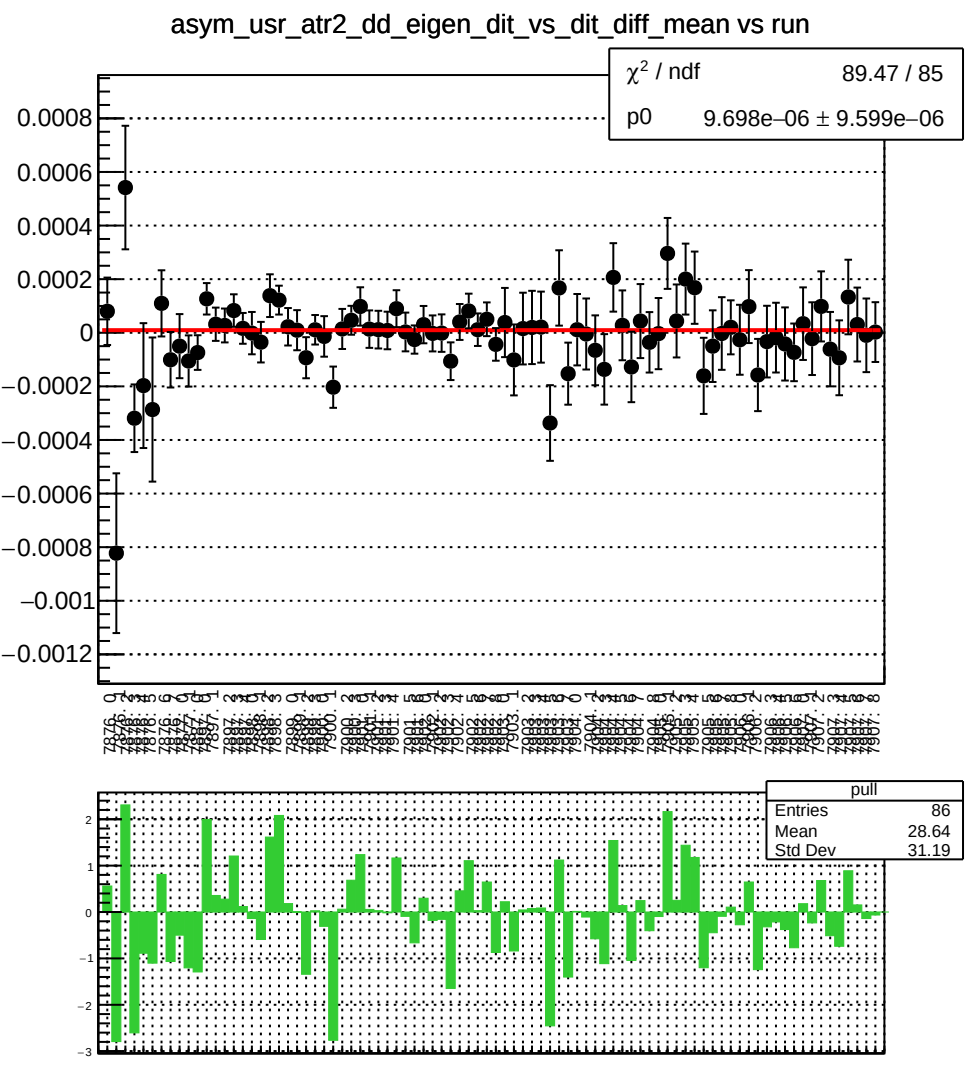

pull1D
Entries 86
Mean 0.01302
Std Dev 0.9088

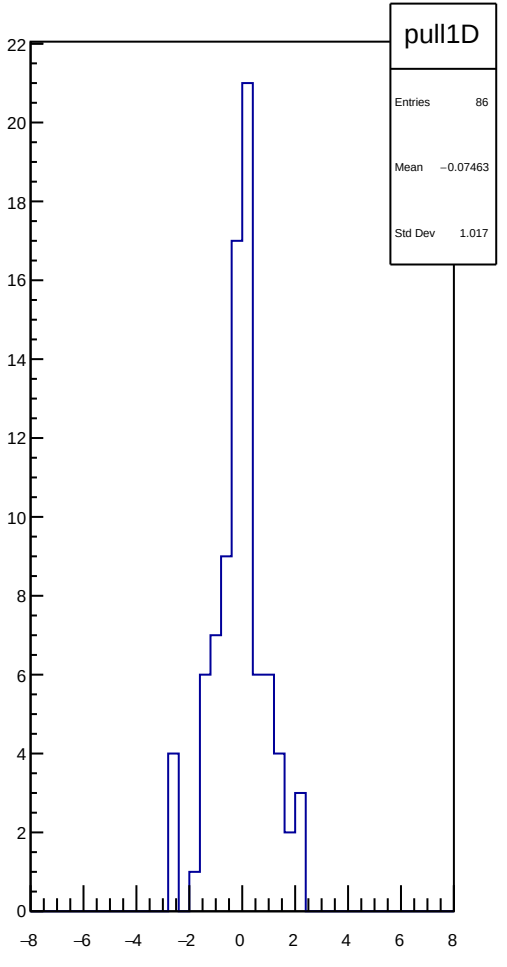

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.642e+05 / 85
p0 332.9 ± 0.2697
600
500
400
300
200
100

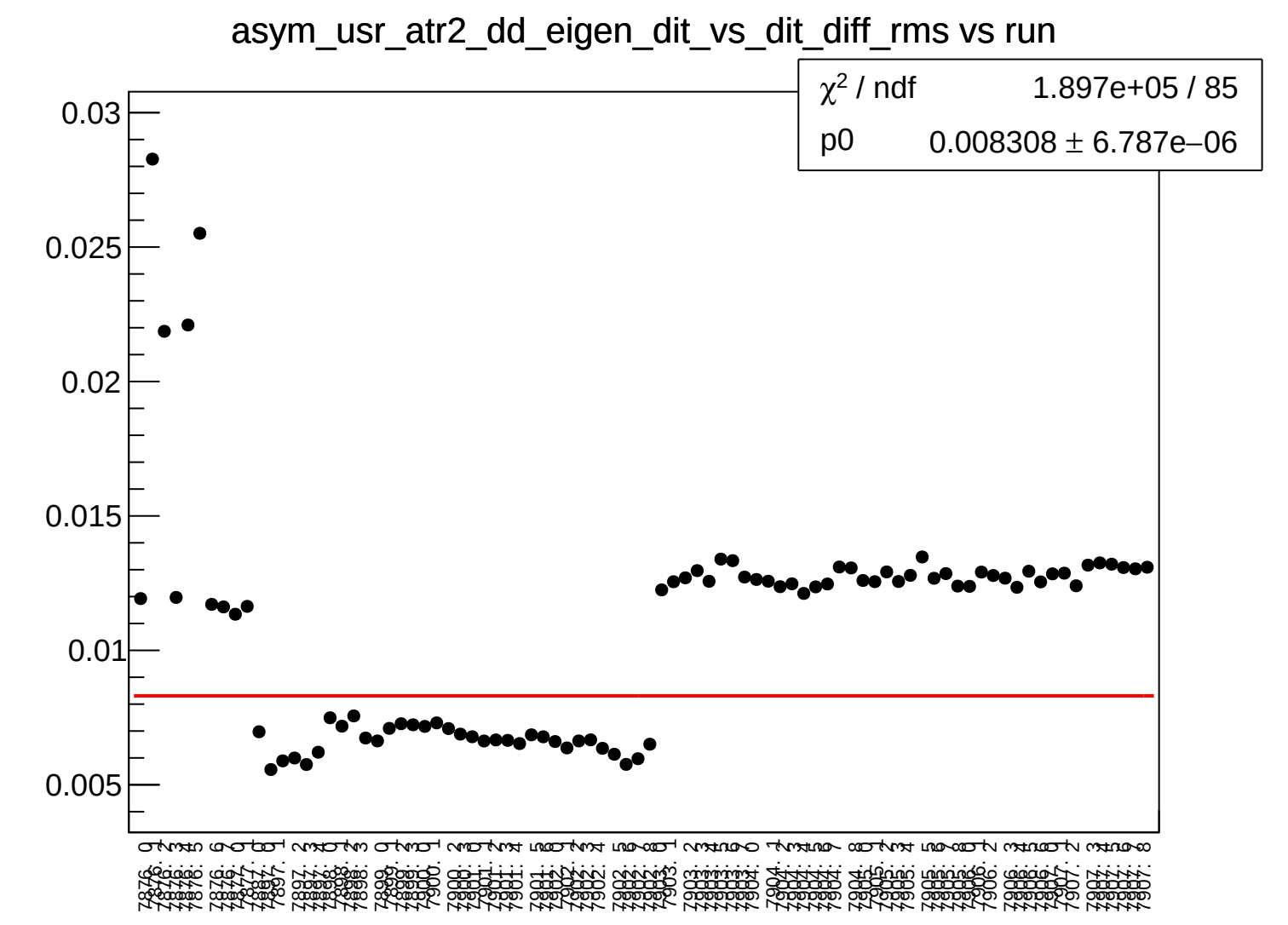

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.04 / 85
p0 −0.07586 ± 0.3814
pull
Entries 86
Mean 110.9
Std Dev 0

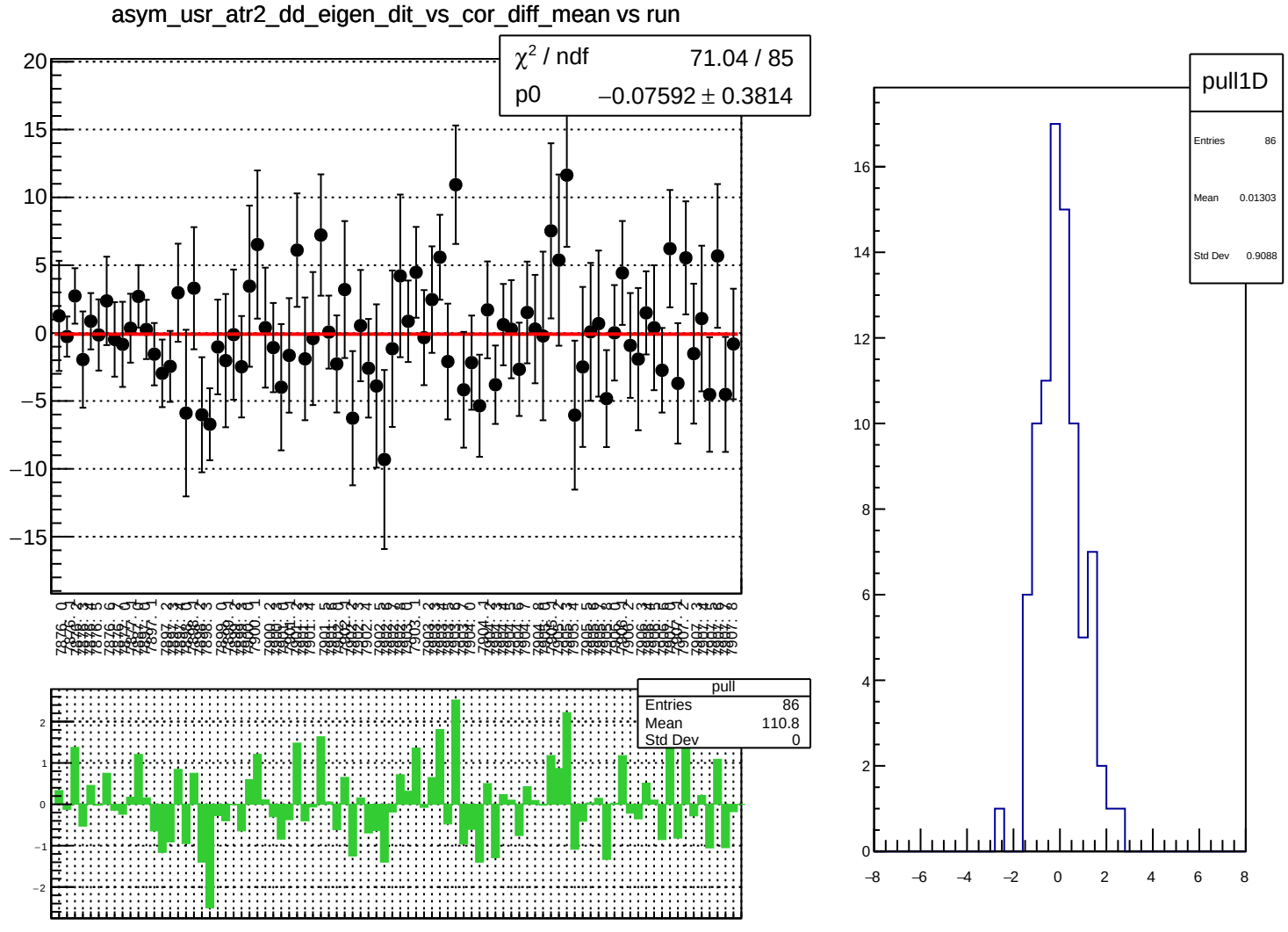

pull1D
Entries 86
Mean 0.01302
Std Dev 0.9088

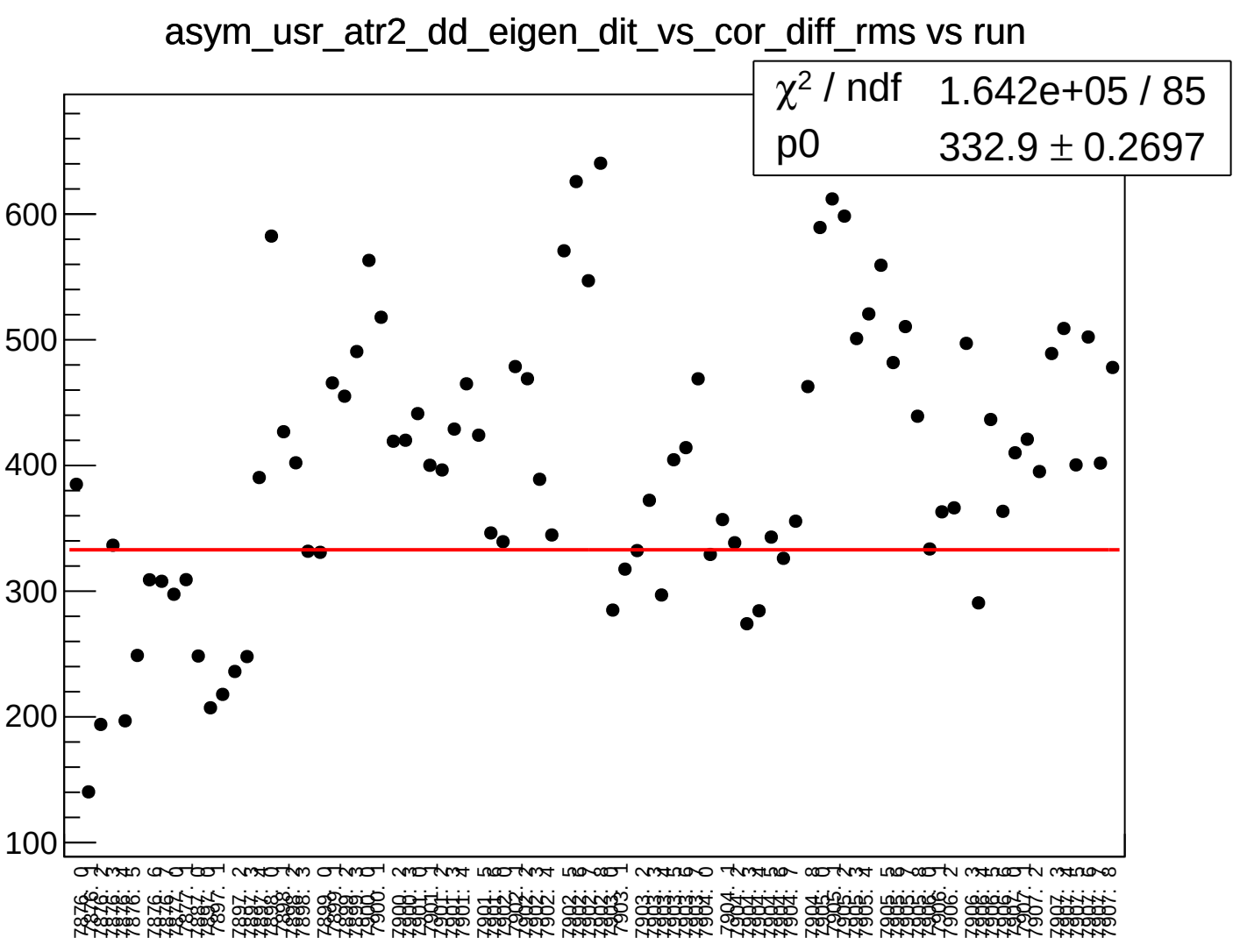

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.642e+05 / 85
p0 332.9 ± 0.2697
600
500
400
300
200
100

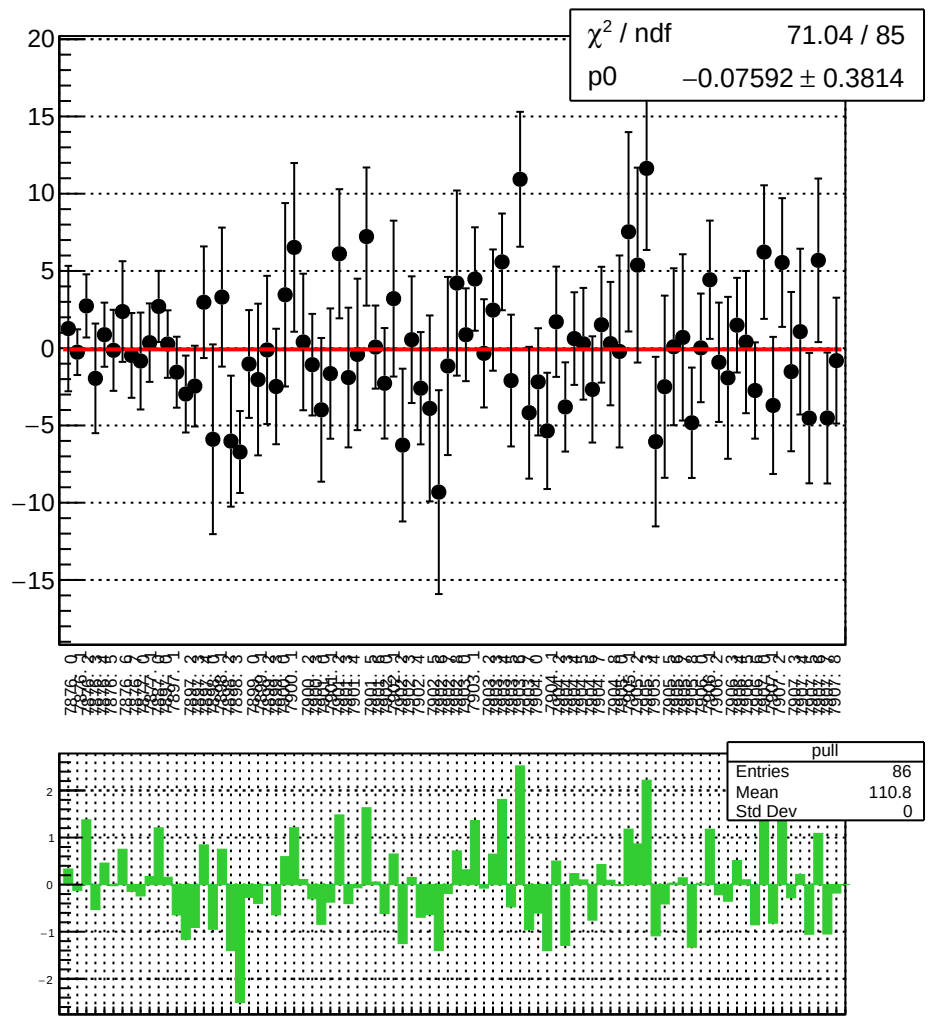

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.47 / 85
p0 9.698e−06 ± 9.599e−06
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 86
Mean 28.64
Std Dev 31.19
2
1
0
−1
−2
−3

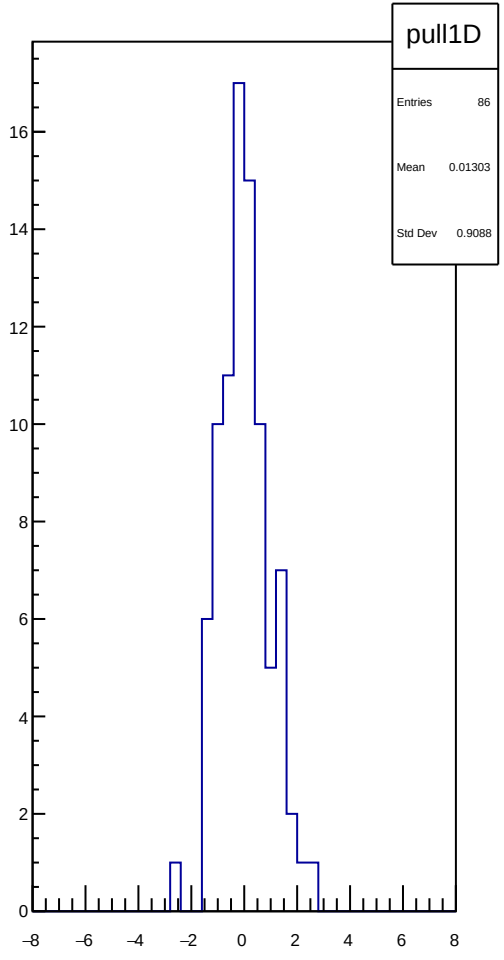

pull1D
Entries 86
Mean −0.07463
Std Dev 1.017
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

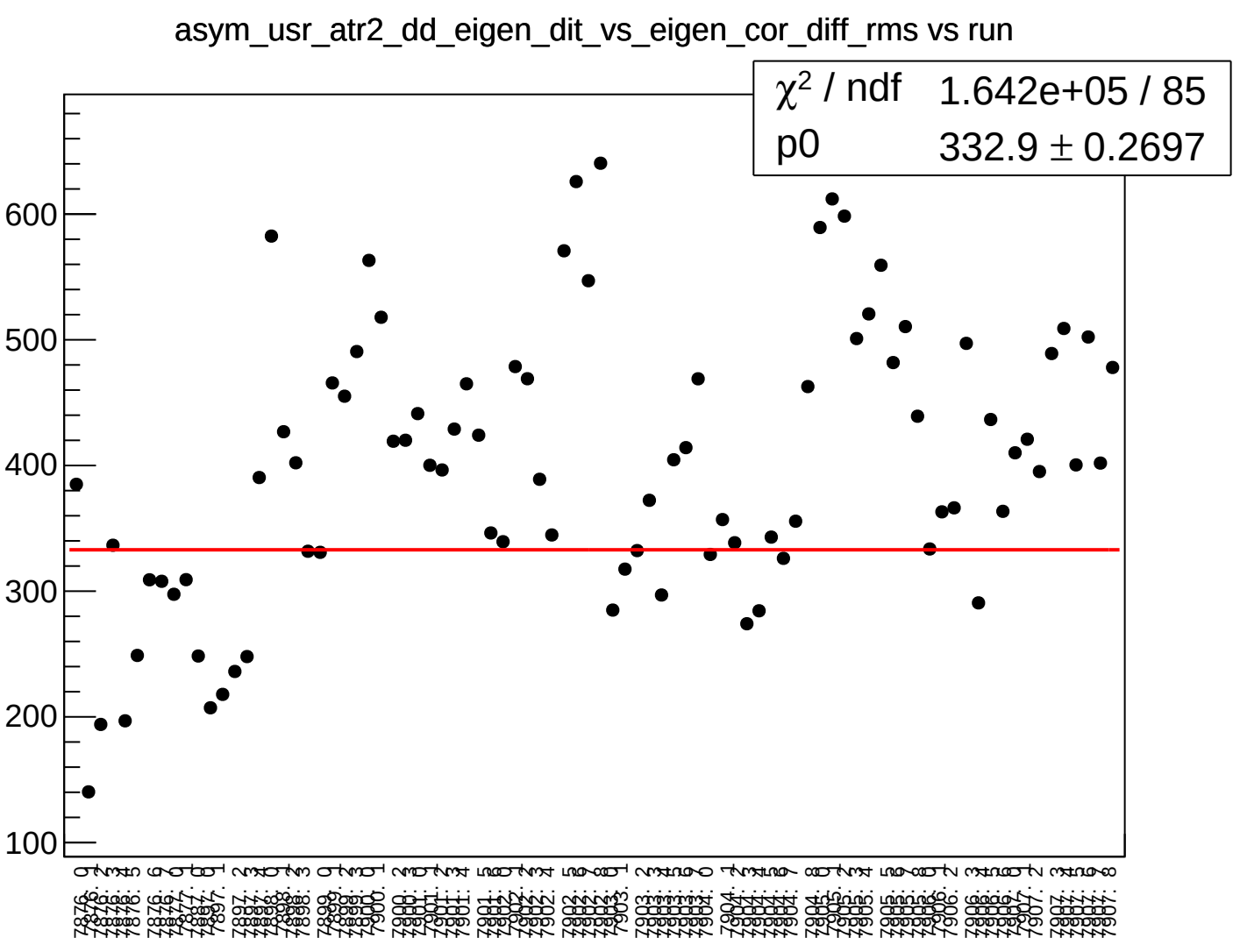

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.897e+05 / 85
p0 0.008308 ± 6.787e−06
0.03
0.025
0.02
0.015
0.01
0.005

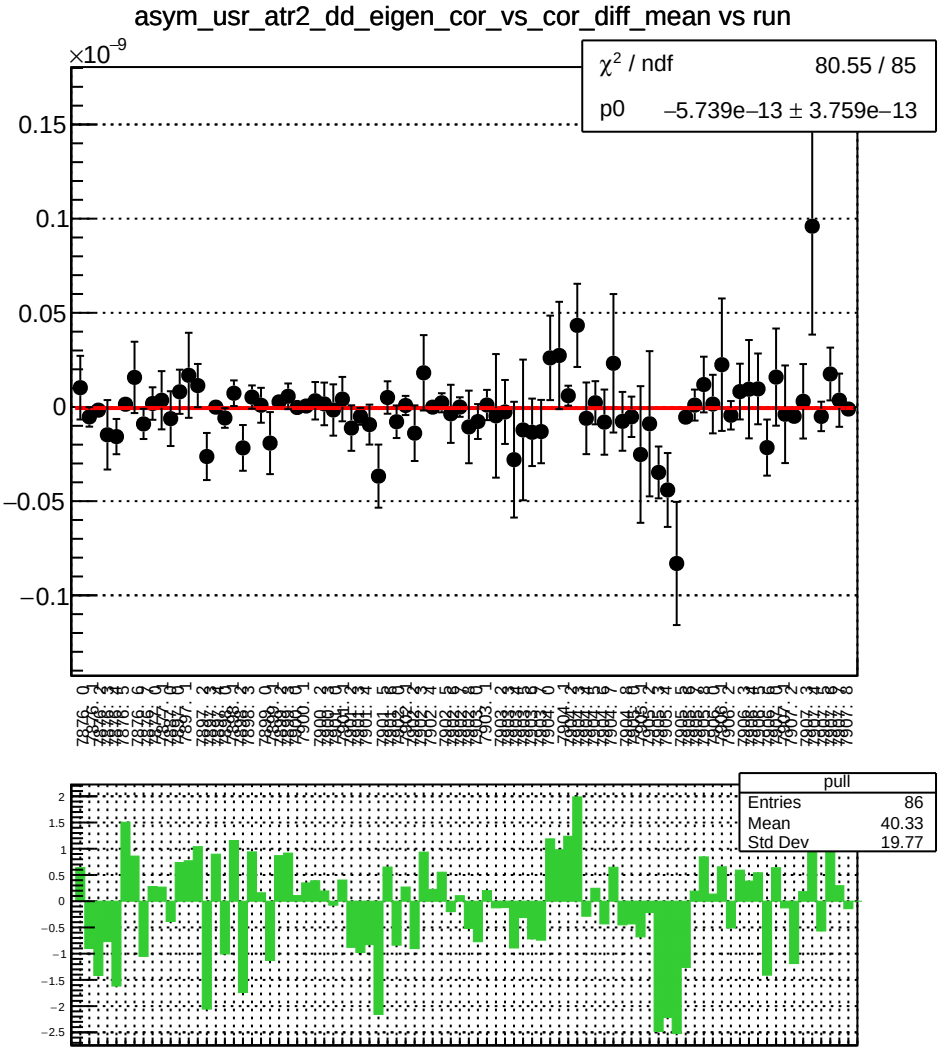

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.04 / 85
p0 −0.07592 ± 0.3814
pull
Entries 86
Mean 110.8
Std Dev 0
pull1D
Entries 86
Mean 0.01303
Std Dev 0.9088

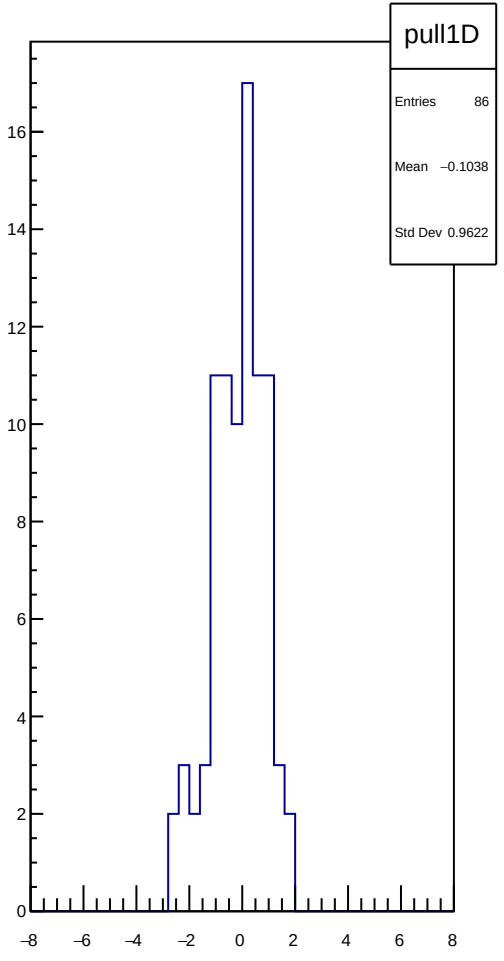

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.642e+05 / 85
p0 332.9 ± 0.2697
600
500
400
300
200
100

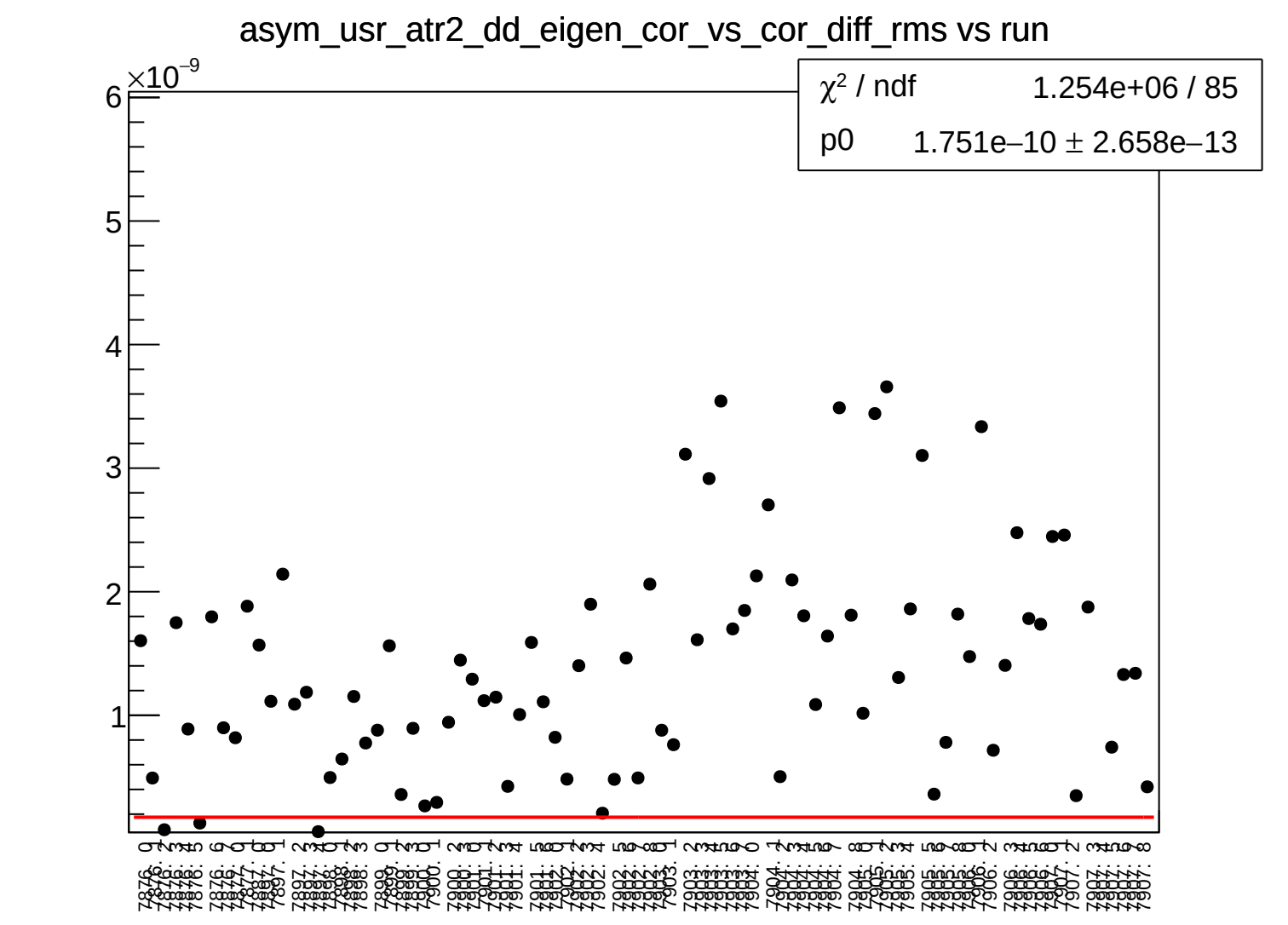

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.04 / 85
p0 −0.07592 ± 0.3814
pull
Entries 86
Mean 110.8
Std Dev 0

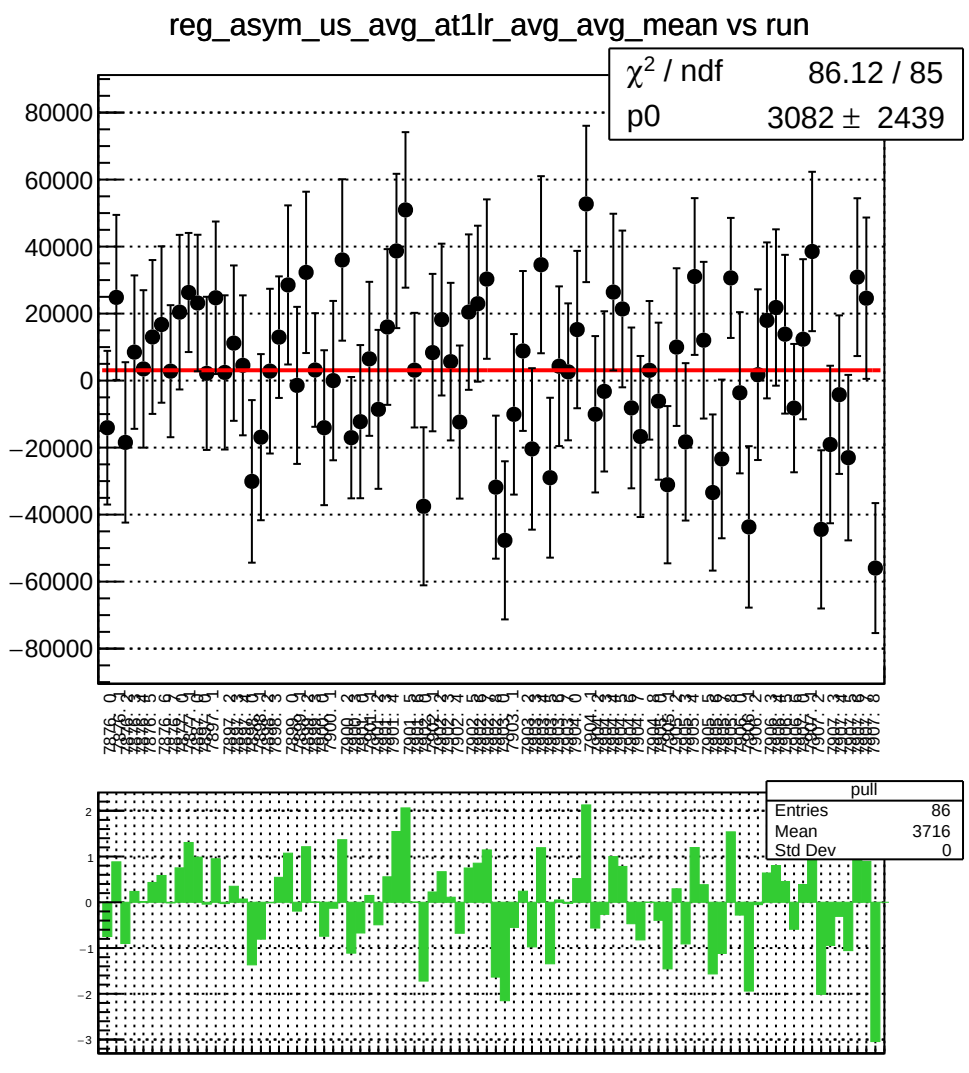

pull1D
Entries 86
Mean 0.01303
Std Dev 0.9088

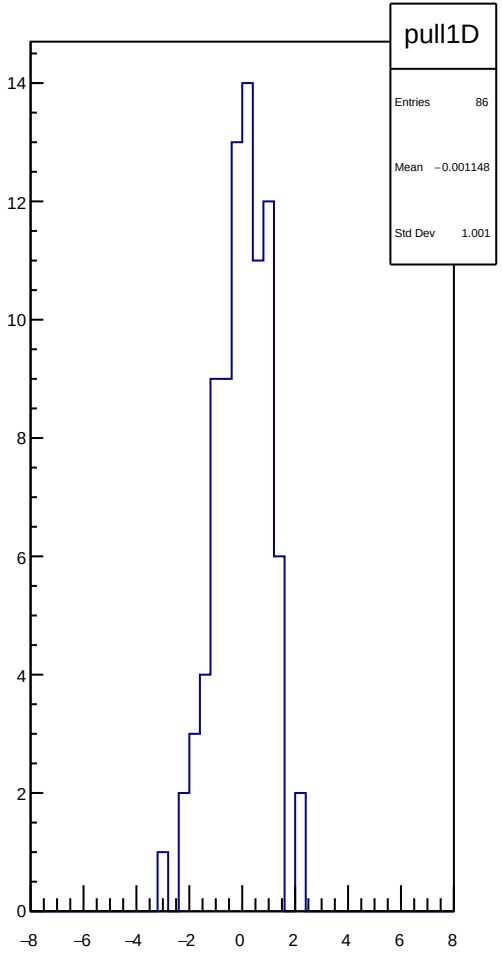

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.642e+05 / 85
p0 332.9 ± 0.2697
600
500
400
300
200
100

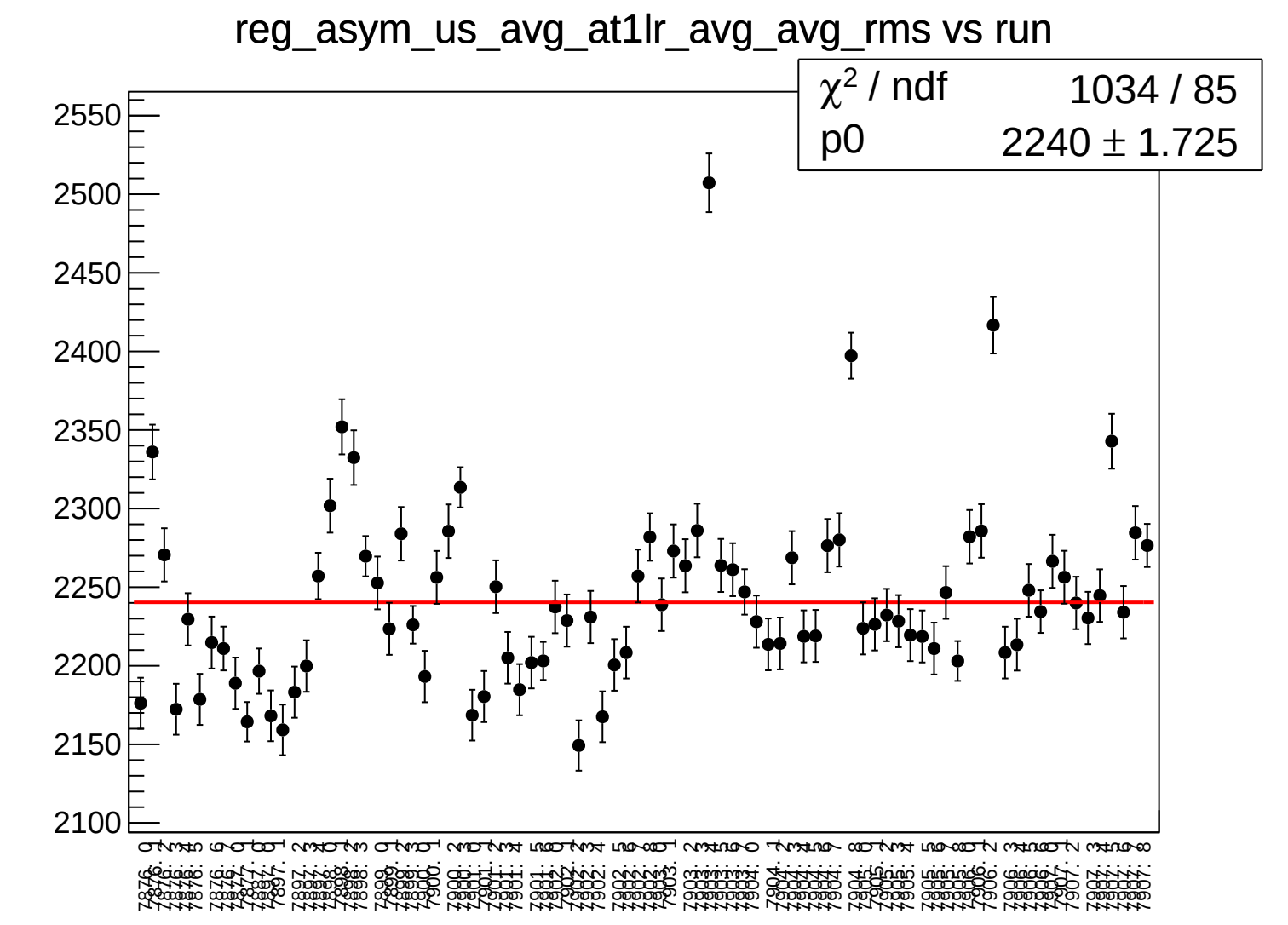

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 80.55 / 85
p0 −5.739e−13 ± 3.759e−13
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 40.33
Std Dev 19.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

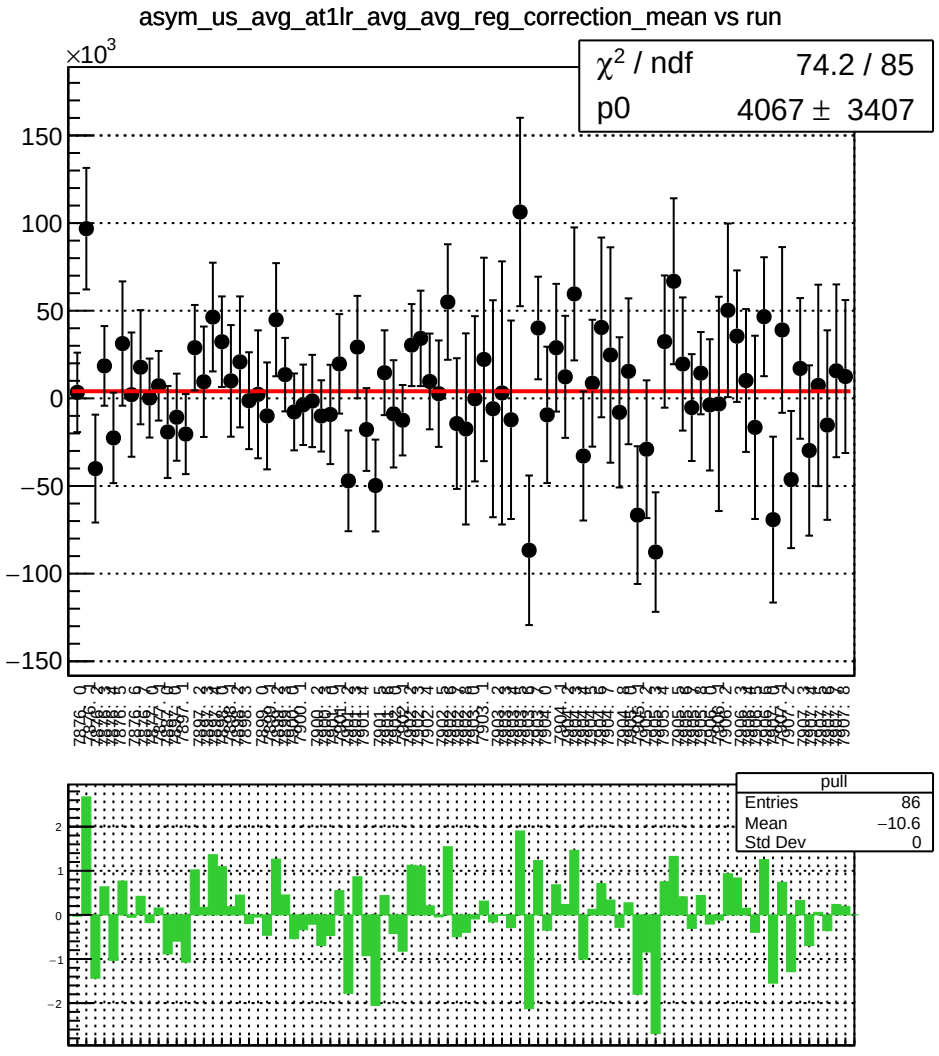

pull1D
Entries 86
Mean −0.1038
Std Dev 0.9622
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

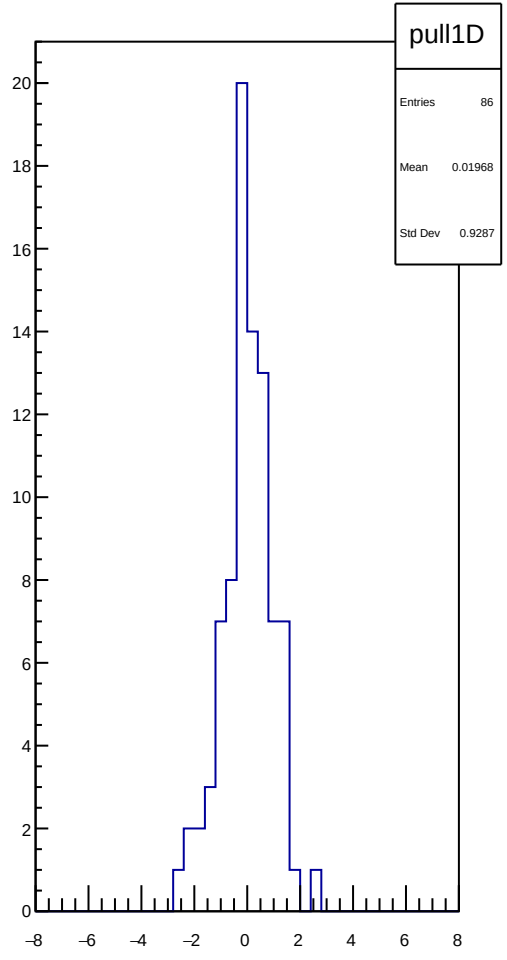

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
6
5
4
3
2
1
χ² / ndf 1.254e+06 / 85
p0 1.751e−10 ± 2.658e−13

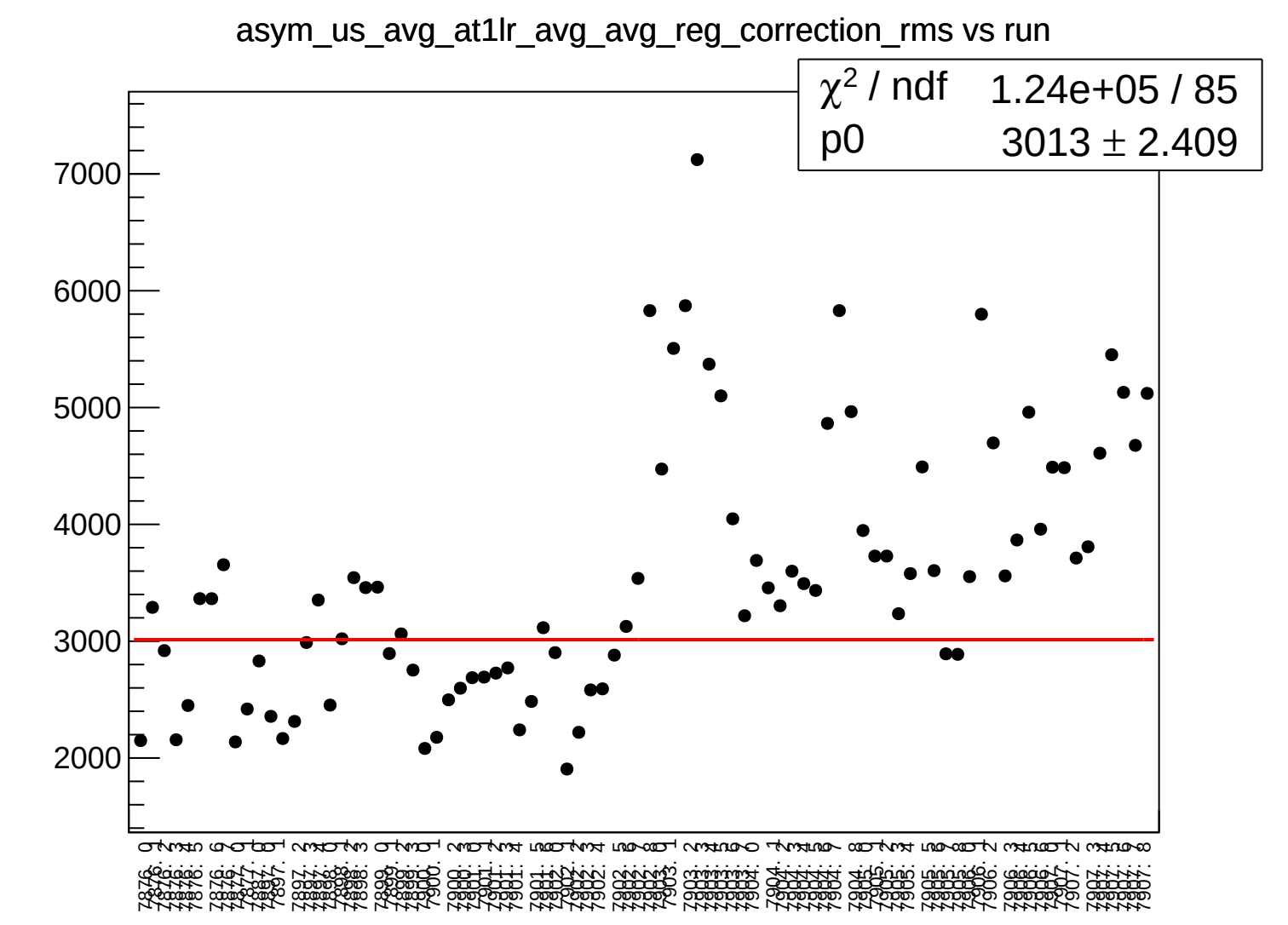

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 86.12 / 85
p0 3082 ± 2439
pull
Entries 86
Mean 3716
Std Dev 0

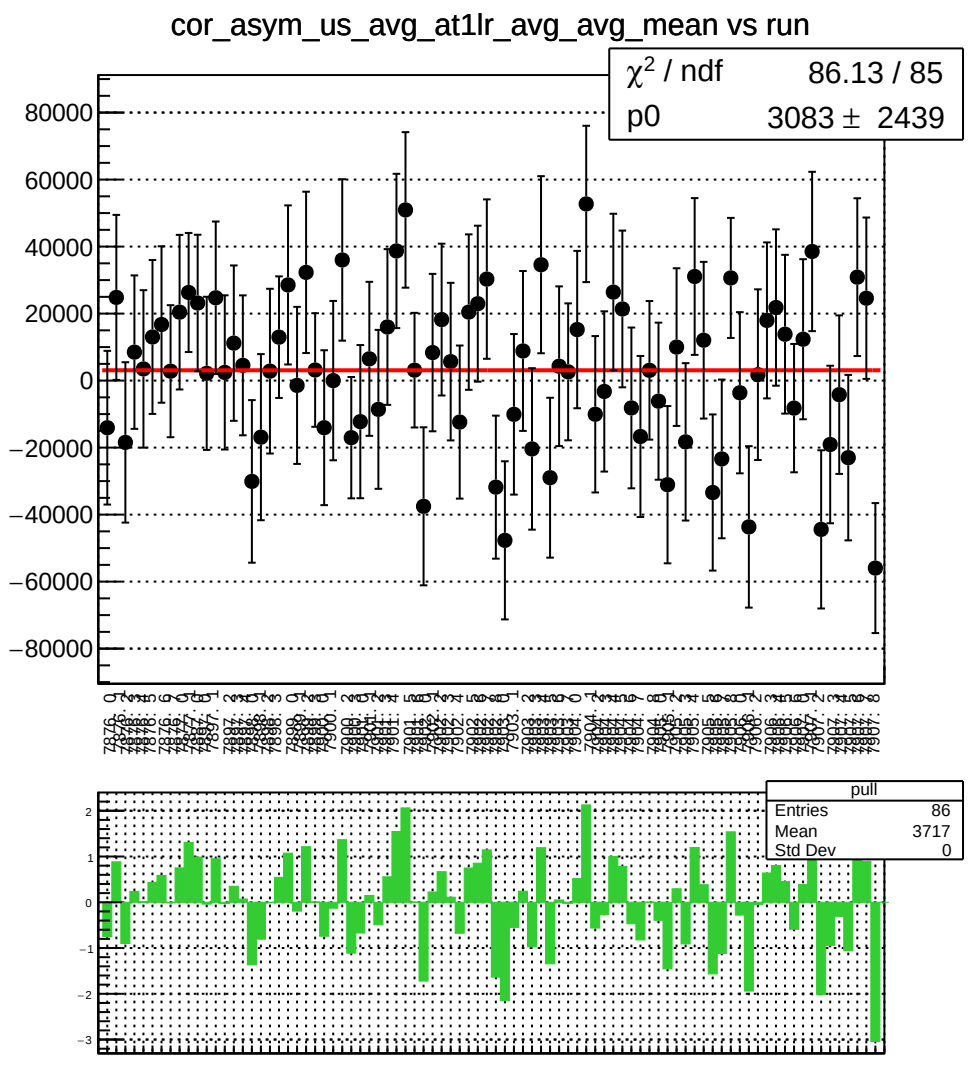

pull1D
Entries 86
Mean −0.001148
Std Dev 1.001

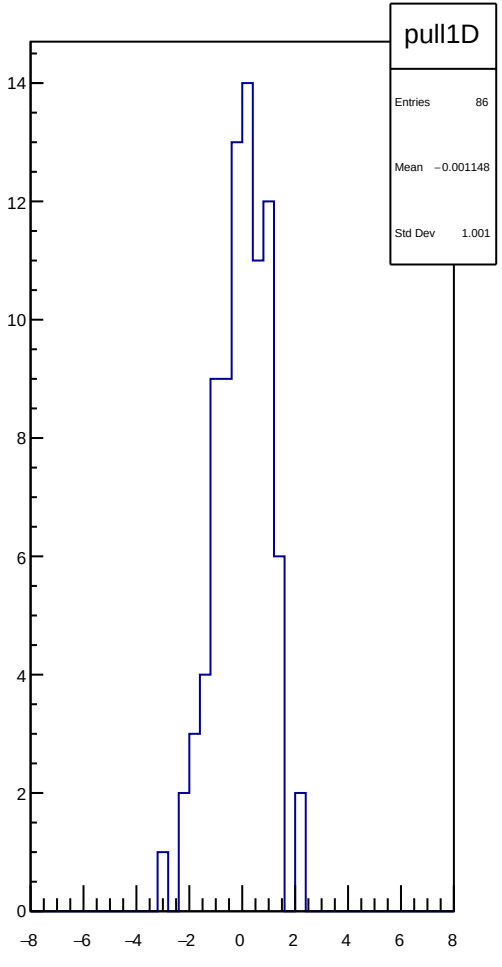

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1034 / 85
p0 2240 ± 1.725
2550
2500
2450
2400
2350
2300
2250
2200
2150
2100

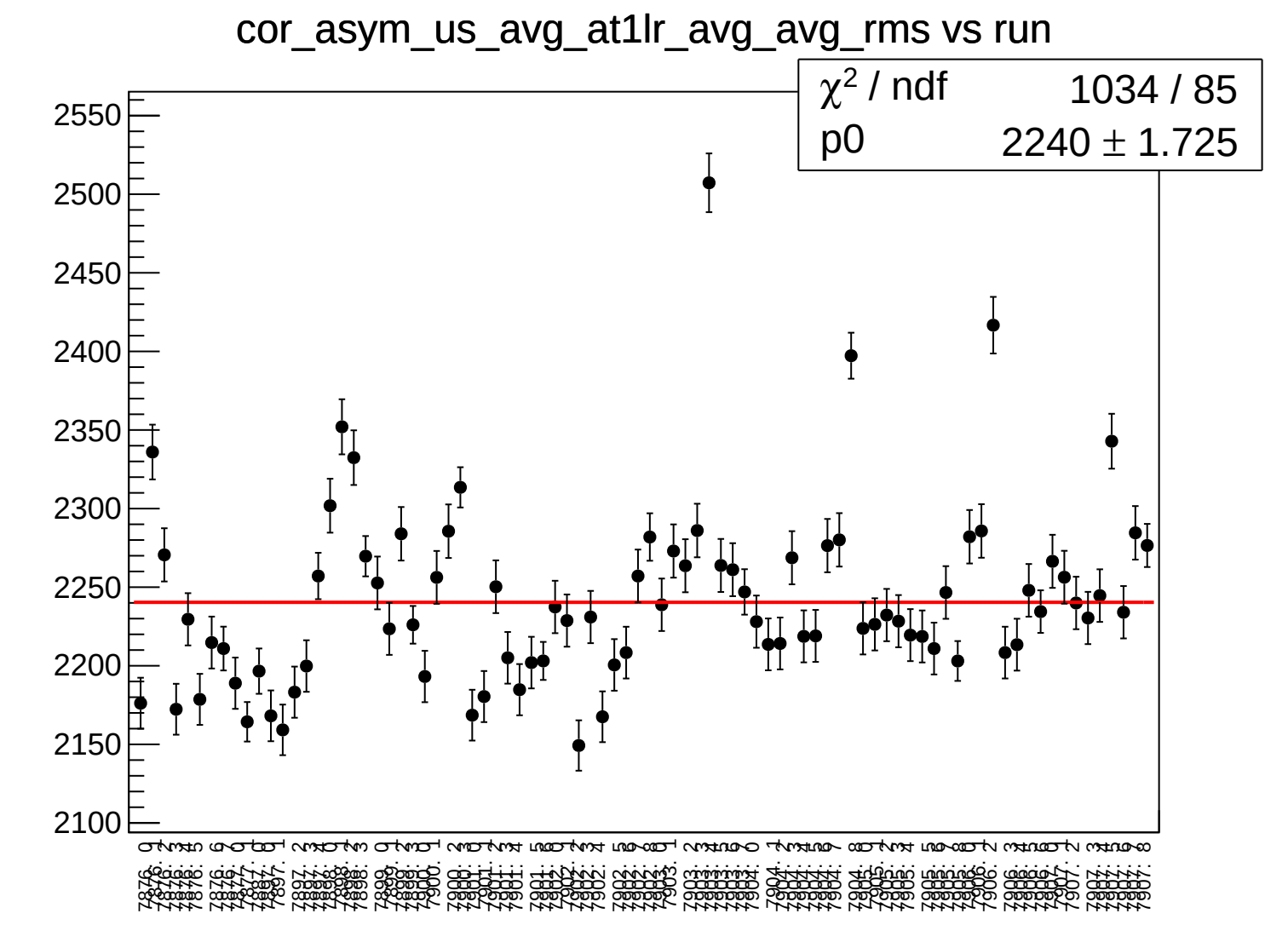

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 74.2 / 85
p0 4067 ± 3407
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −10.6
Std Dev 0
2
1
0
−1
−2

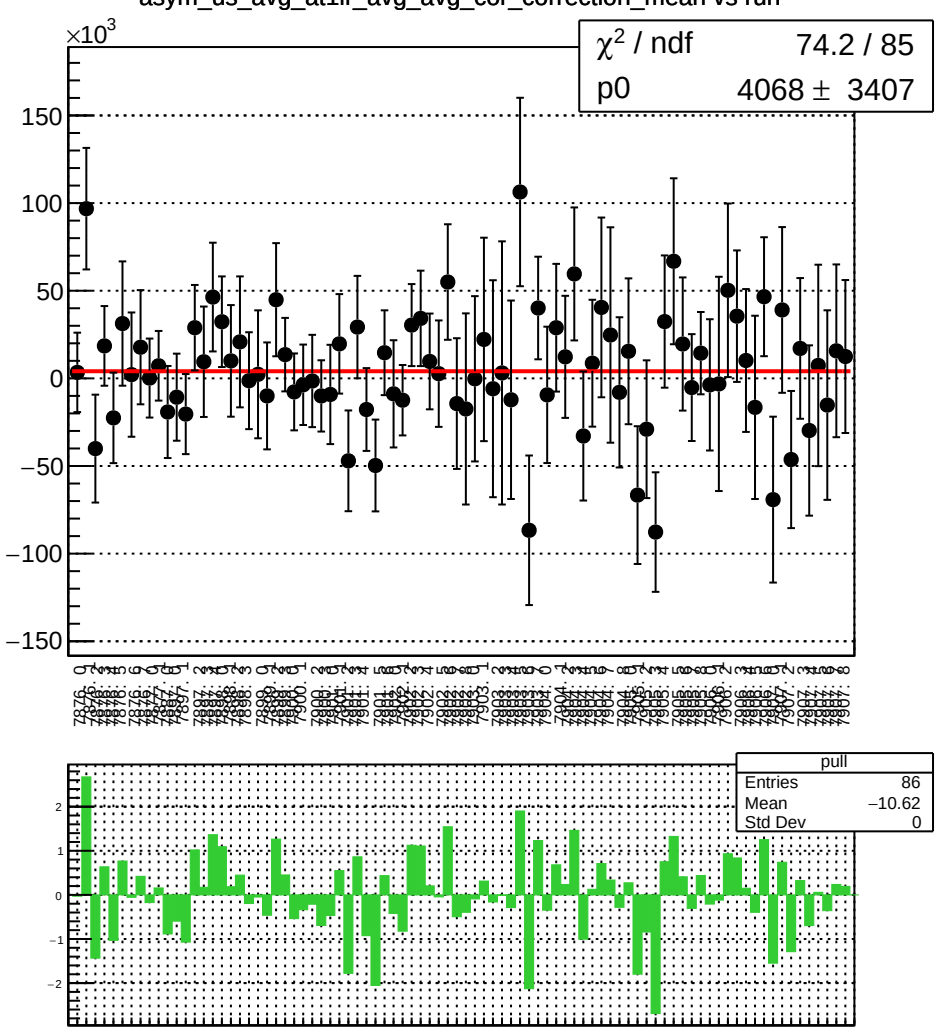

pull1D
Entries 86
Mean 0.01968
Std Dev 0.9287
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

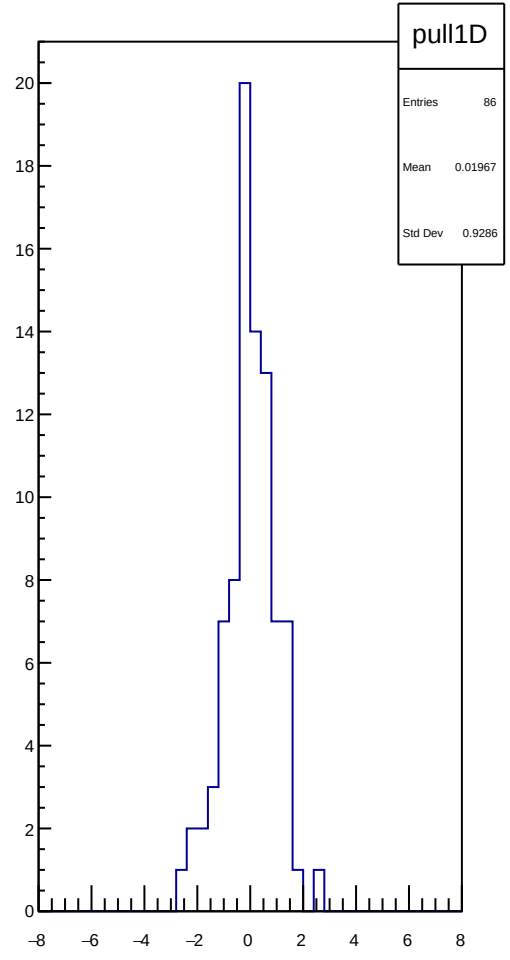

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 1.24e+05 / 85
p0 3013 ± 2.409
7000
6000
5000
4000
3000
2000

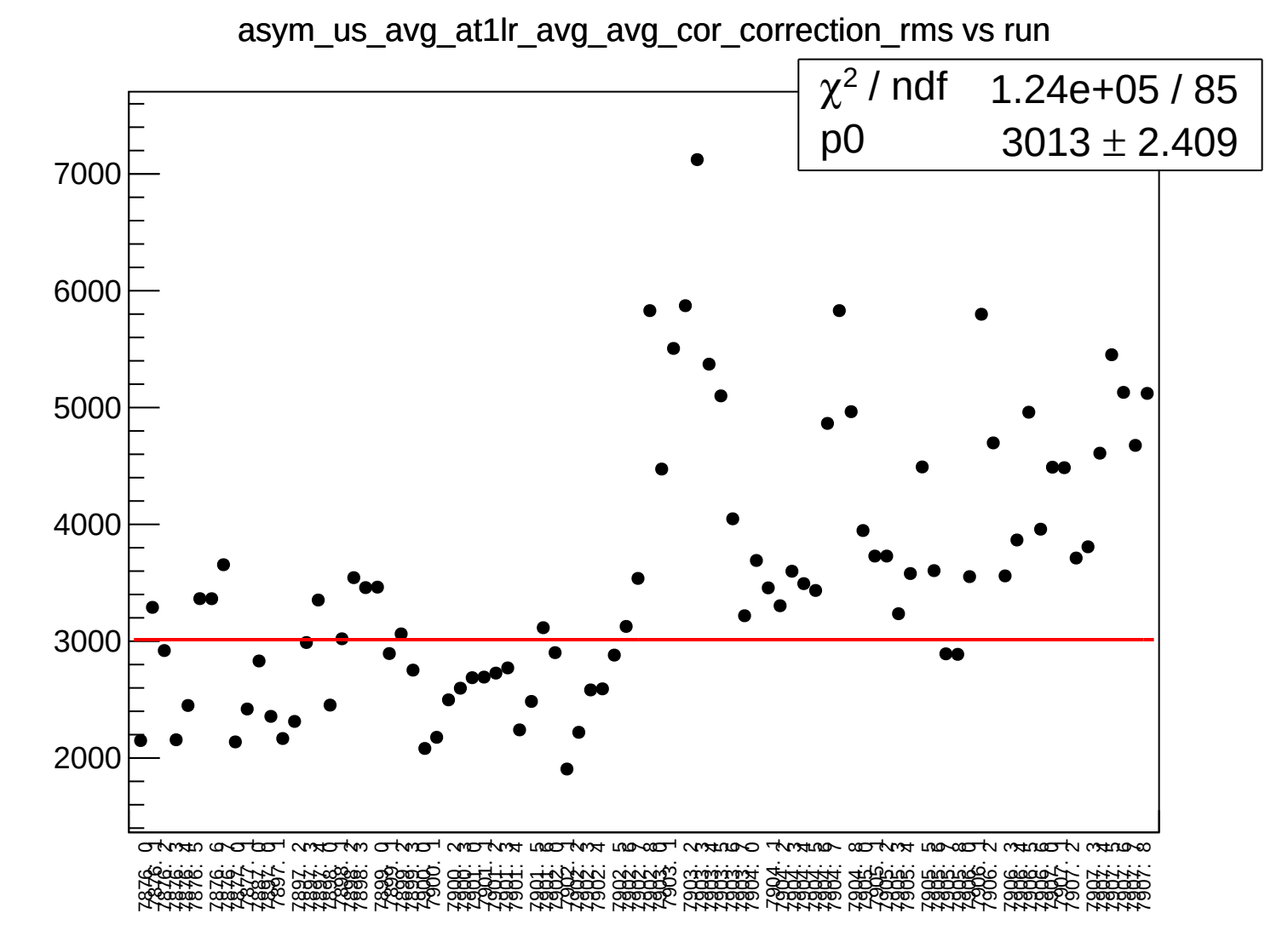

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 86.13 / 85
p0 3083 ± 2439
pull
Entries 86
Mean 3717
Std Dev 0

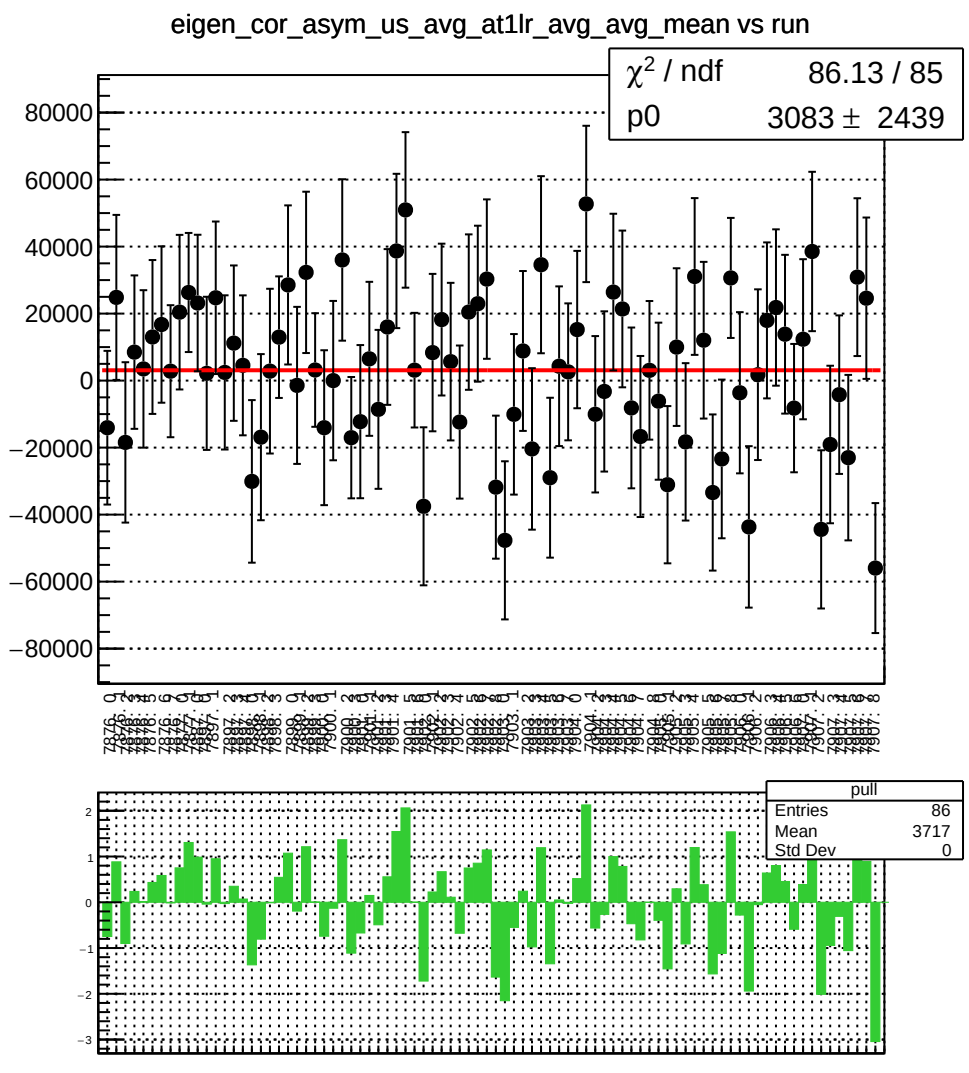

pull1D
Entries 86
Mean −0.001148
Std Dev 1.001

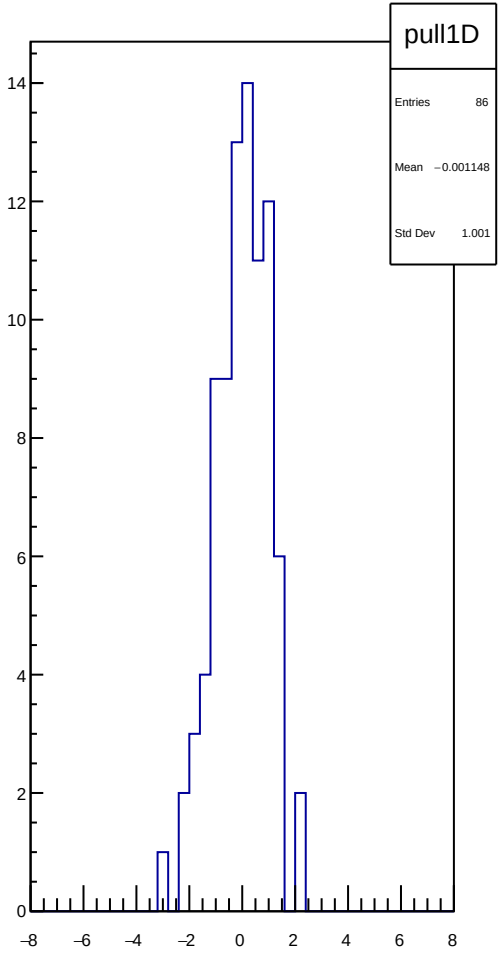

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1034 / 85
p0 2240 ± 1.725
2550
2500
2450
2400
2350
2300
2250
2200
2150
2100

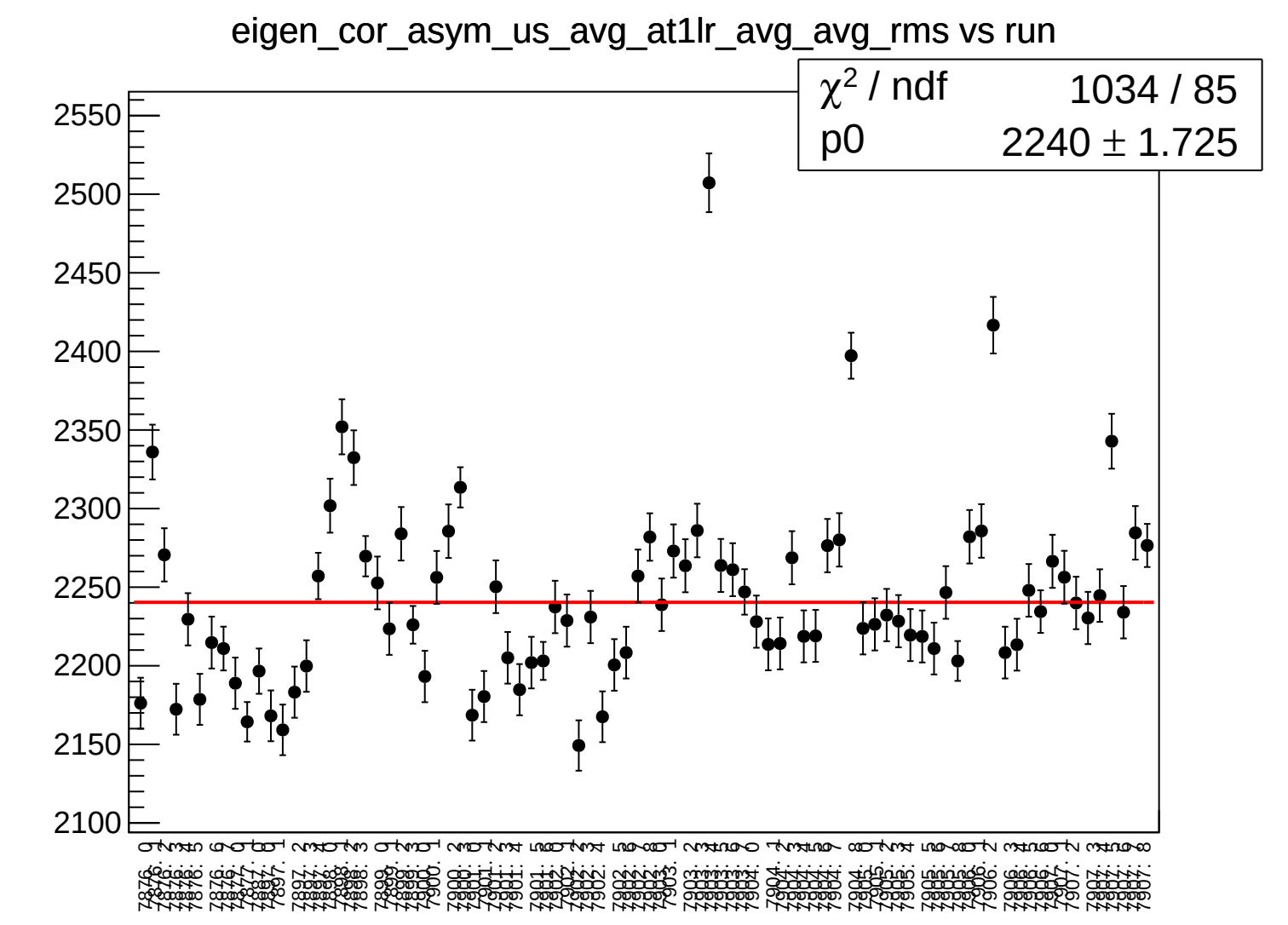

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 74.2 / 85
p0 4068 ± 3407
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −10.62
Std Dev 0
2
1
0
−1
−2

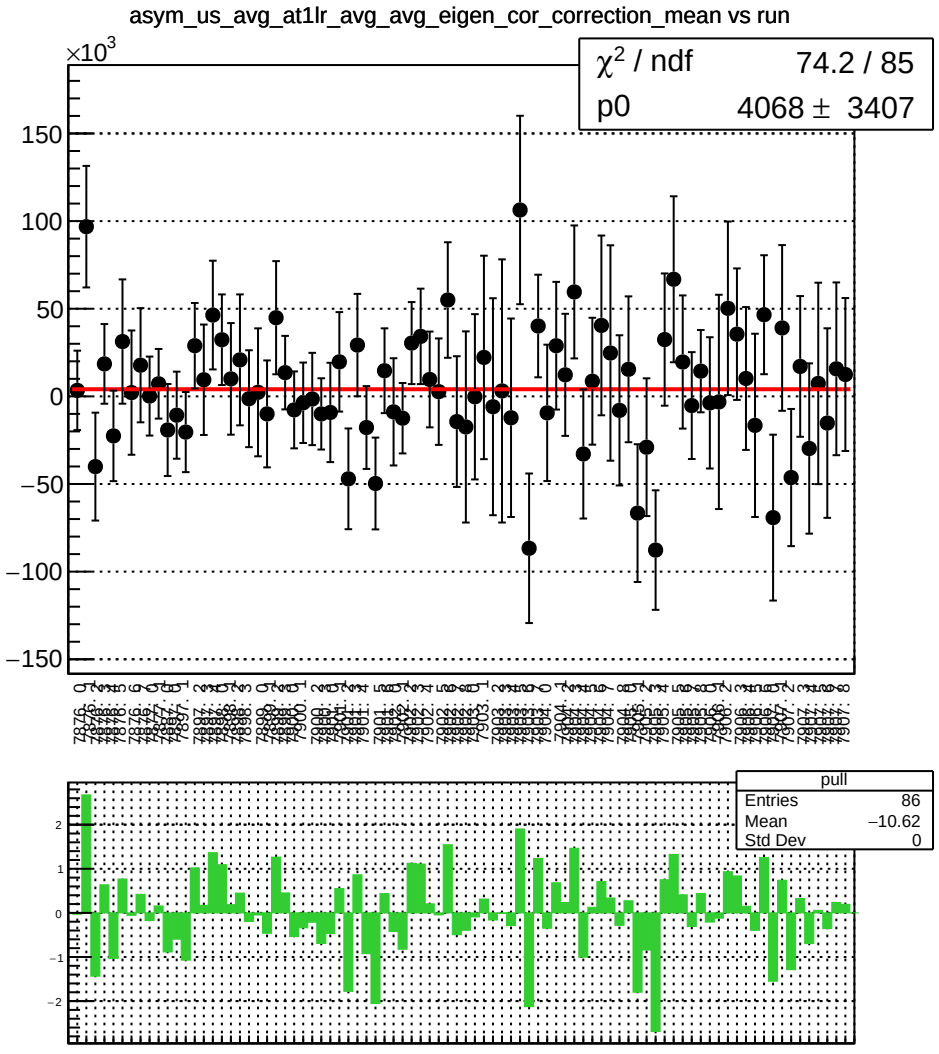

pull1D
Entries 86
Mean 0.01967
Std Dev 0.9286
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

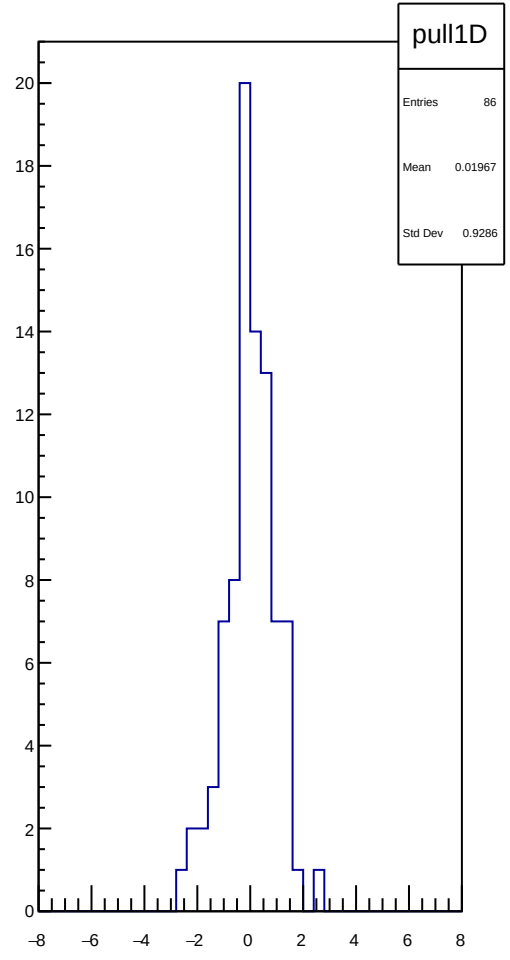

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 1.24e+05 / 85
p0 3013 ± 2.409
7000
6000
5000
4000
3000
2000

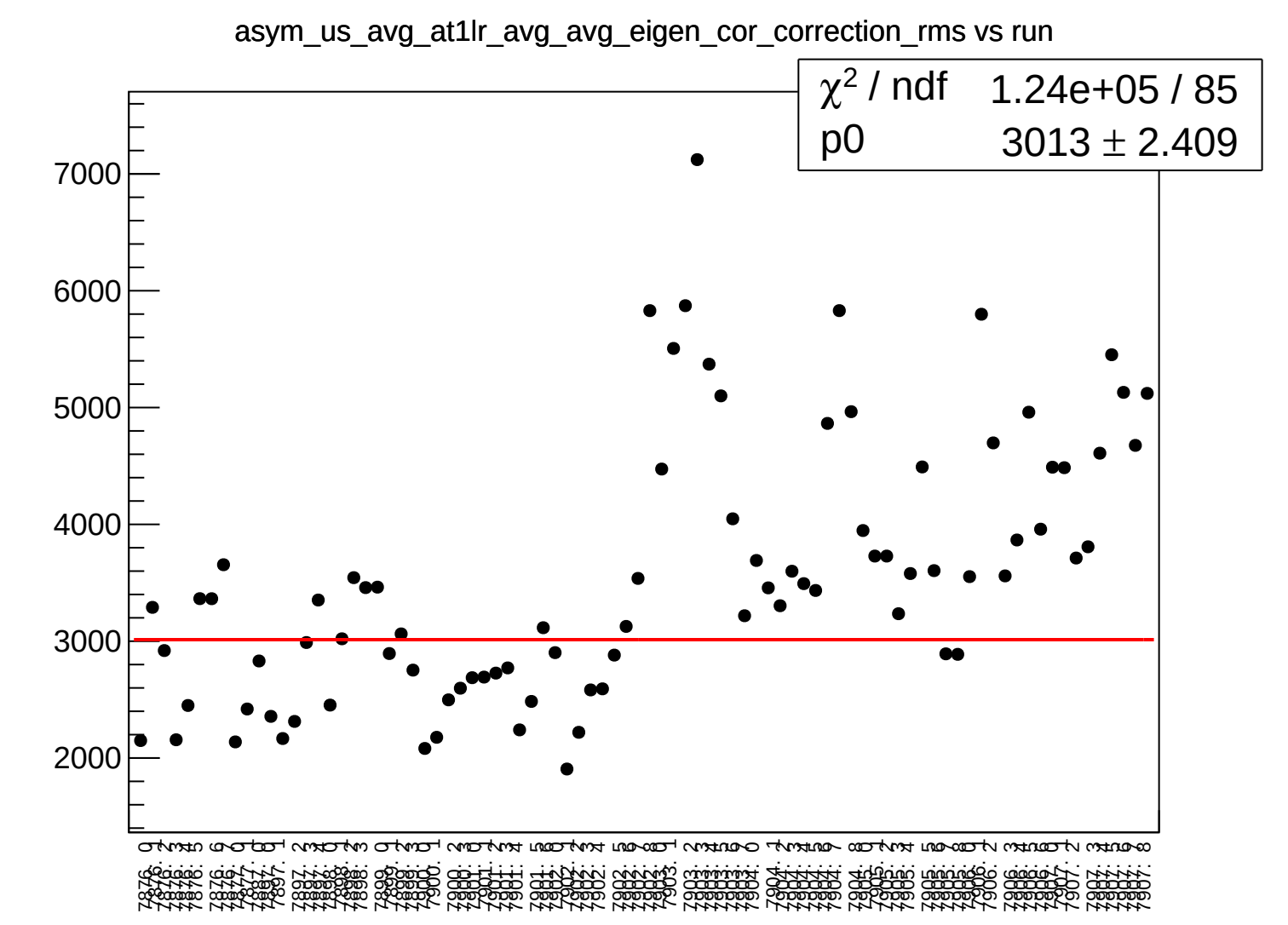

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 86.13 / 85
p0 3083 ± 2439
pull
Entries 86
Mean 3717
Std Dev 0

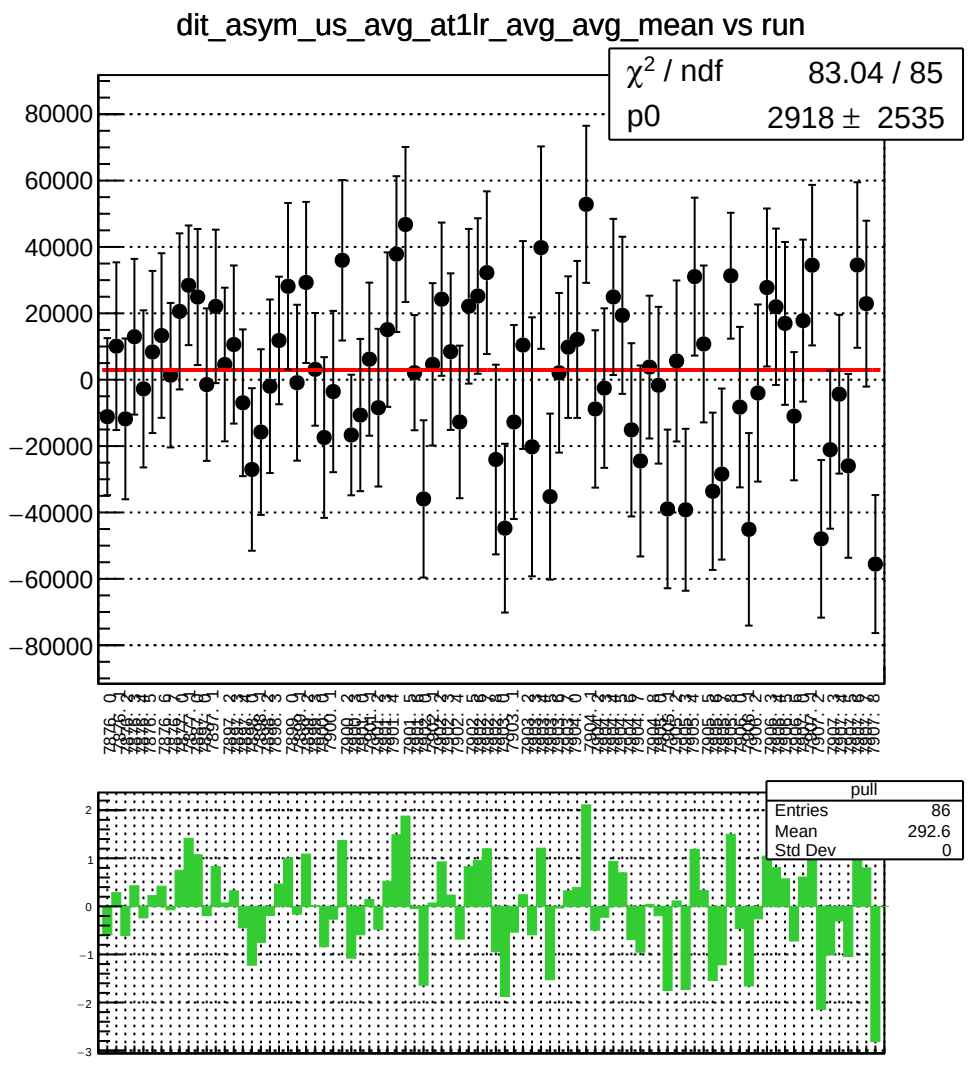

pull1D
Entries 86
Mean −0.001148
Std Dev 1.001

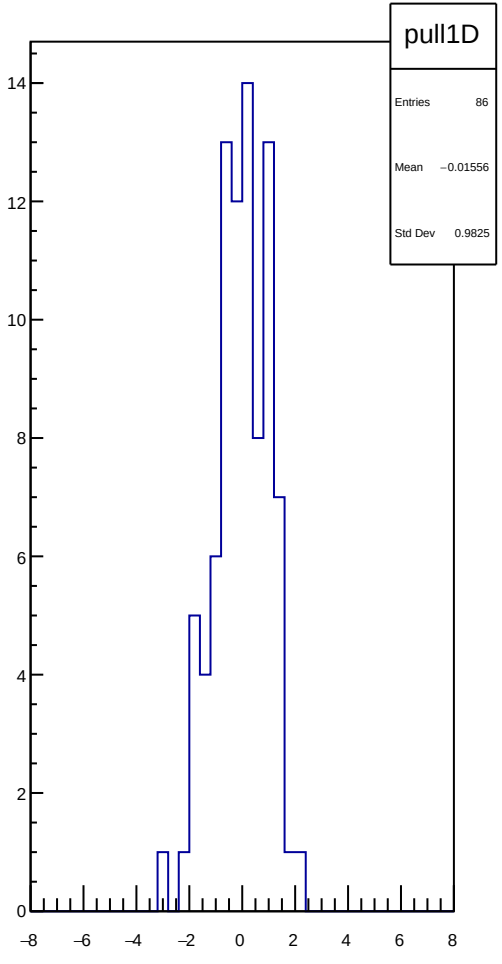

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1034 / 85
p0 2240 ± 1.725
2550
2500
2450
2400
2350
2300
2250
2200
2150
2100

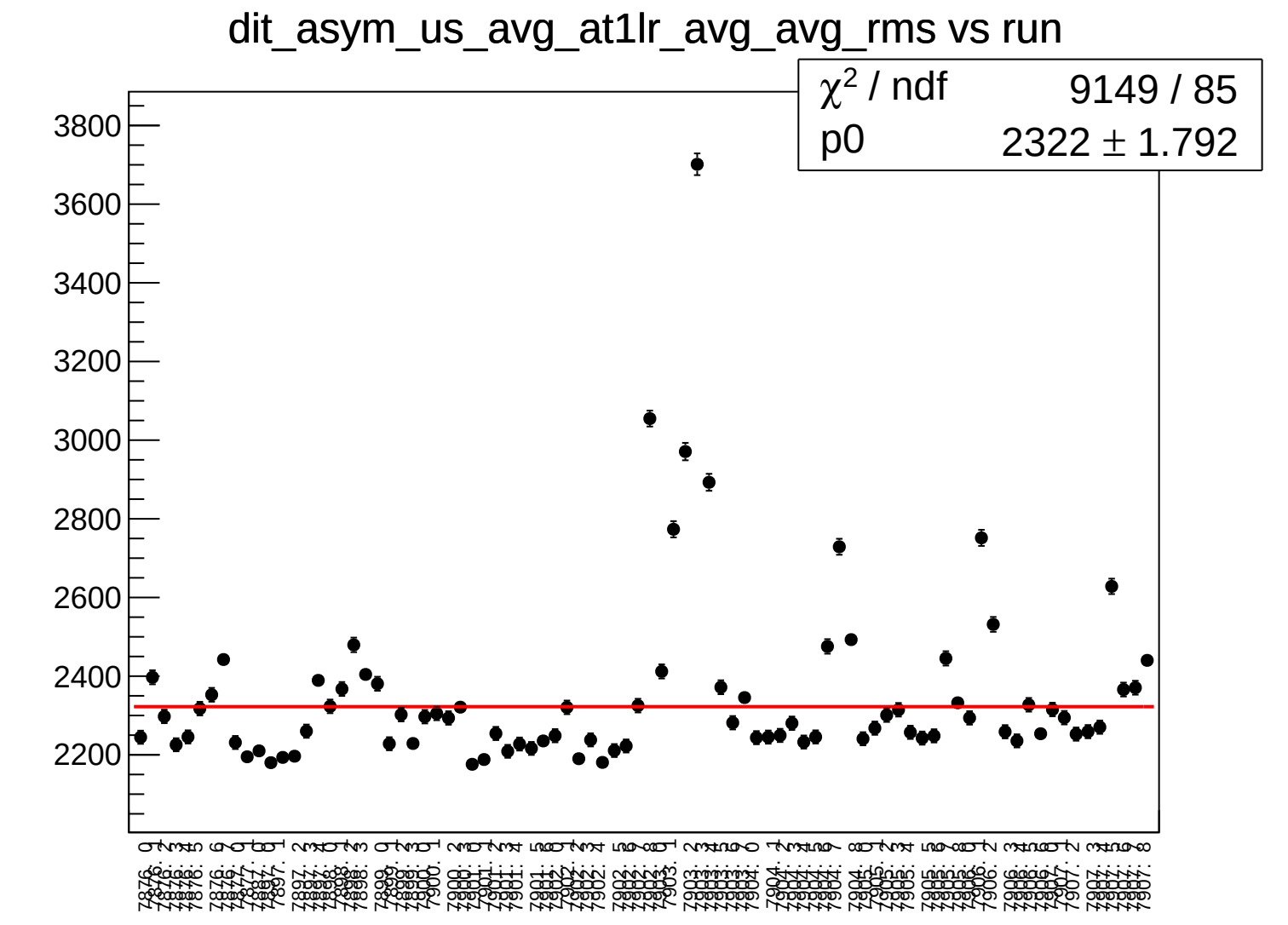

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.2 / 85
p0 4068 ± 3407
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −10.62
Std Dev 0
2
1
0
−1
−2

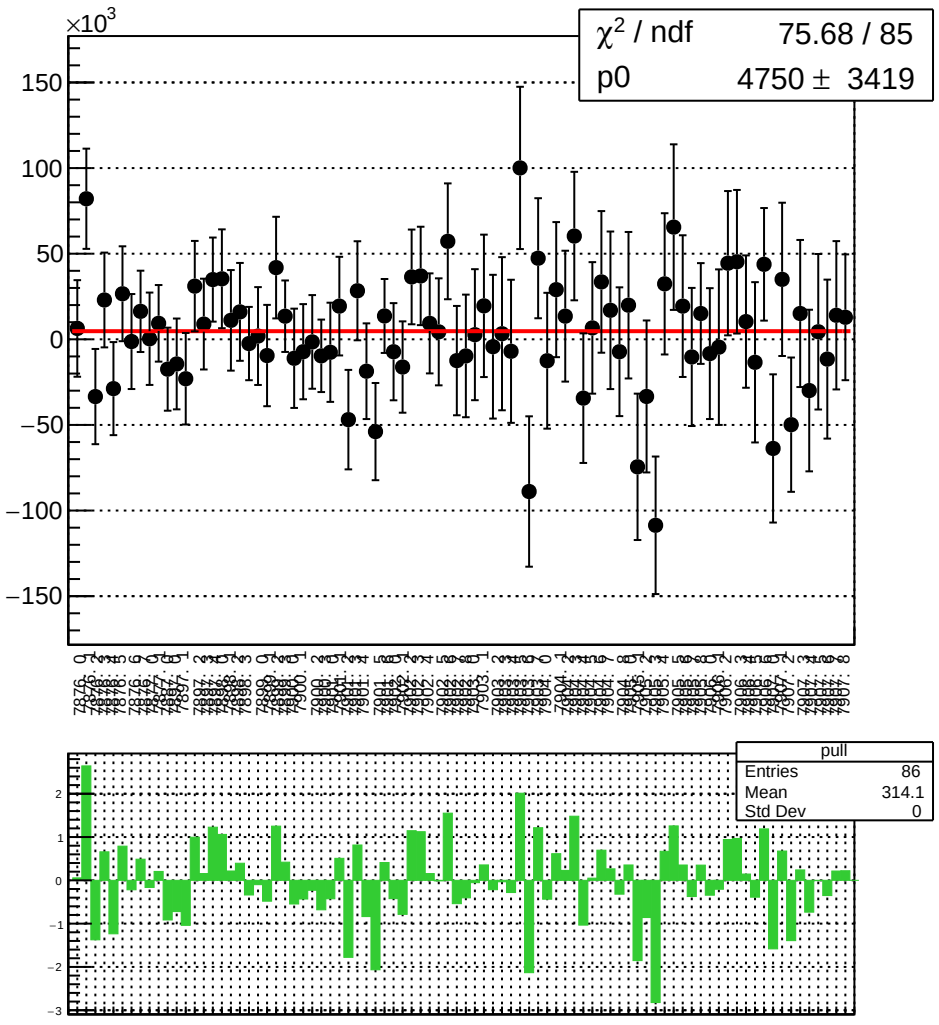

pull1D
Entries 86
Mean 0.01967
Std Dev 0.9286
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

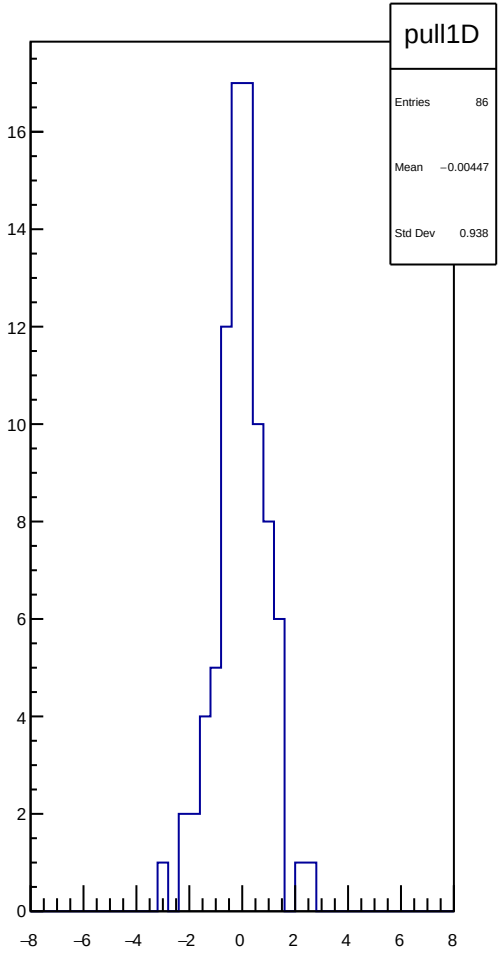

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.24e+05 / 85
p0 3013 ± 2.409
7000
6000
5000
4000
3000
2000

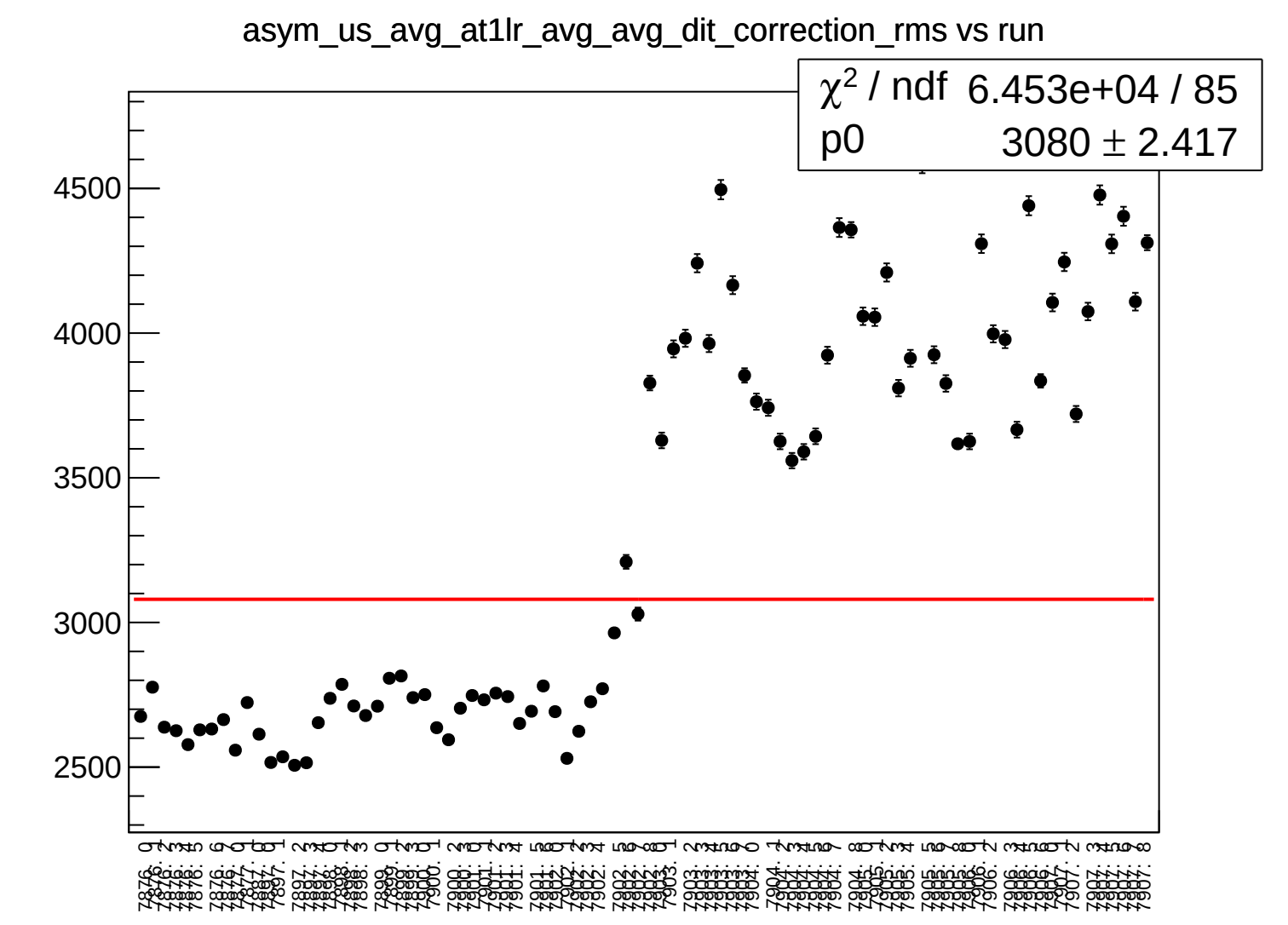

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 83.04 / 85
p0 2918 ± 2535
pull
Entries 86
Mean 292.6
Std Dev 0

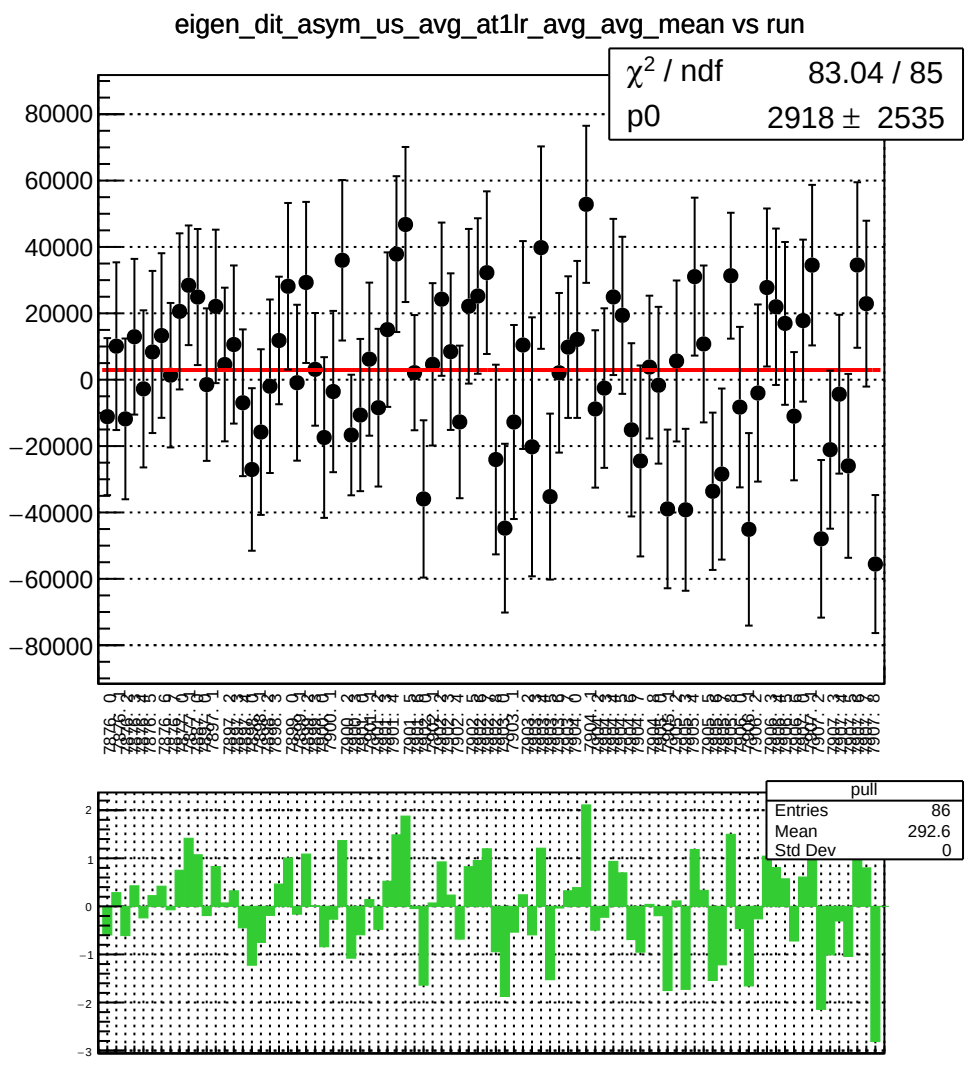

pull1D
Entries 86
Mean −0.01556
Std Dev 0.9825

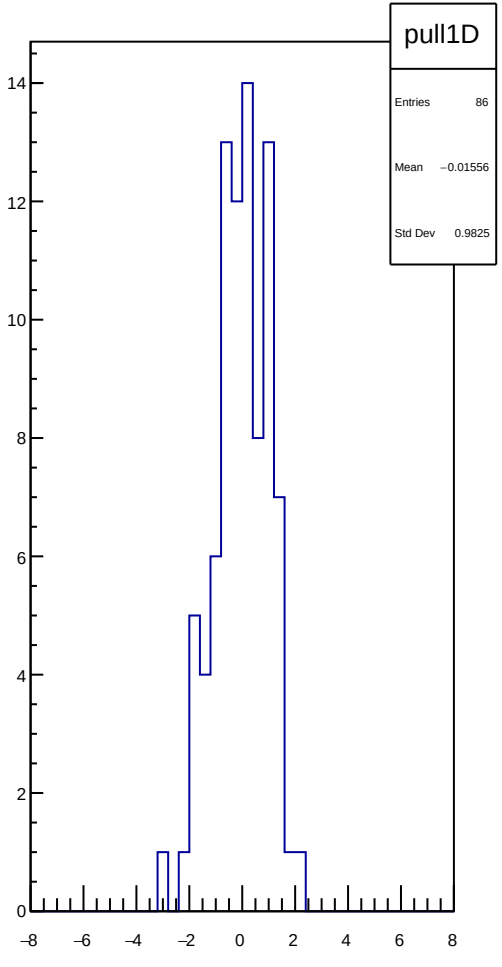

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 9149 / 85
p0 2322 ± 1.792
3800
3600
3400
3200
3000
2800
2600
2400
2200

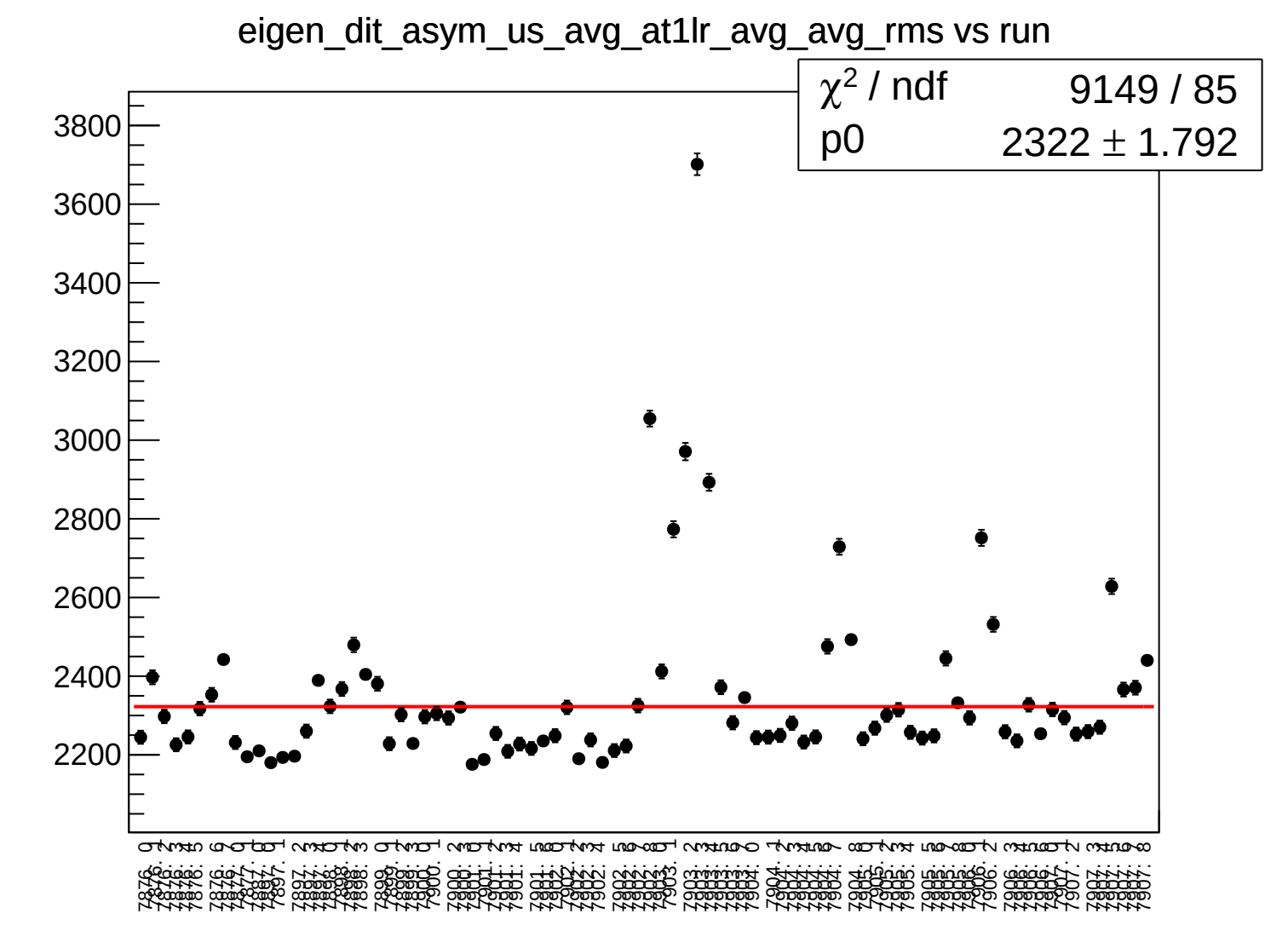

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 75.68 / 85
p0 4750 ± 3419
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 314.1
Std Dev 0
2
1
0
−1
−2
−3

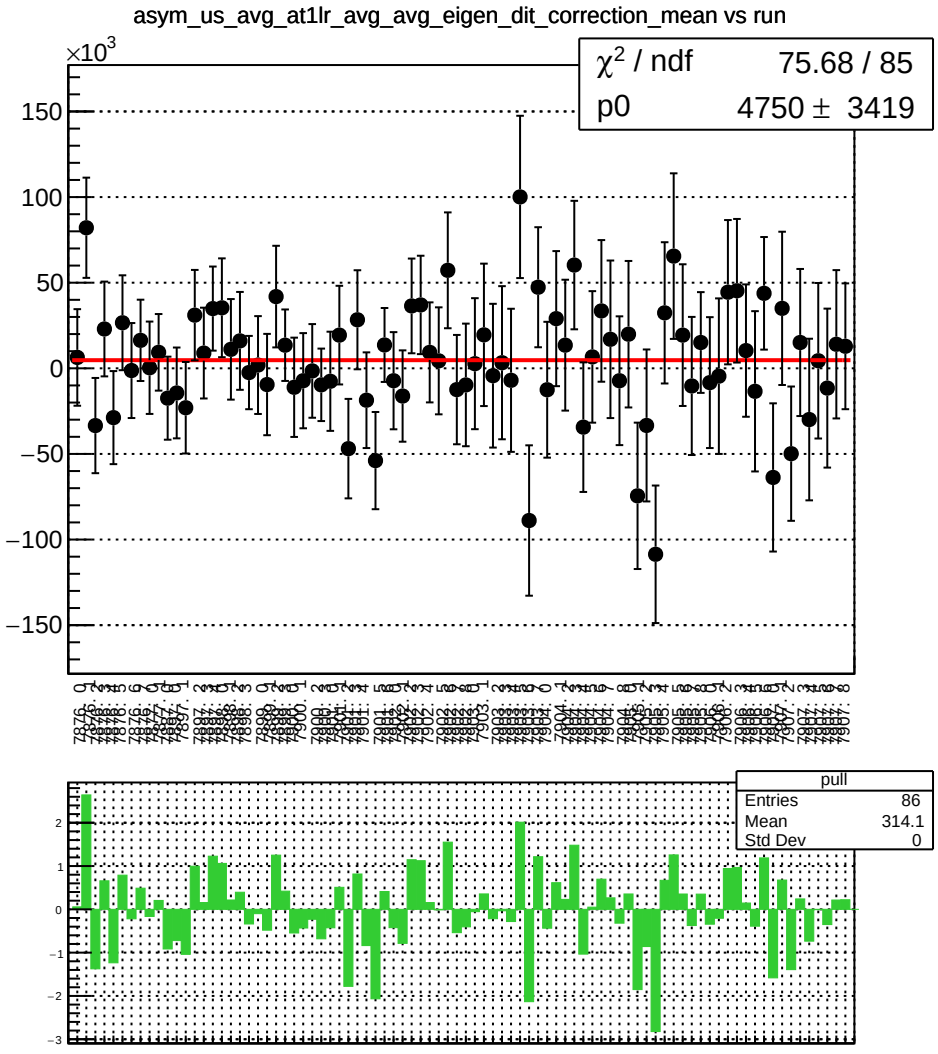

pull1D
Entries 86
Mean −0.00447
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

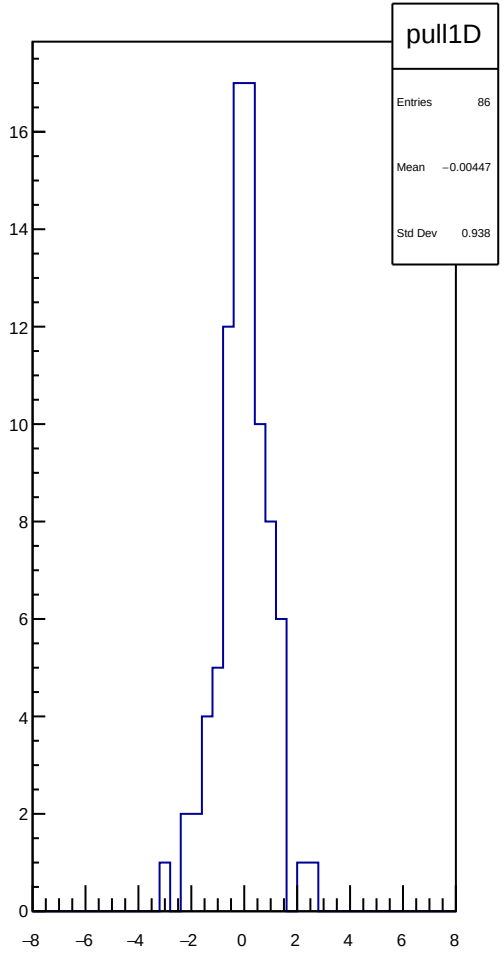

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 6.453e+04 / 85
p0 3080 ± 2.417
4500
4000
3500
3000
2500

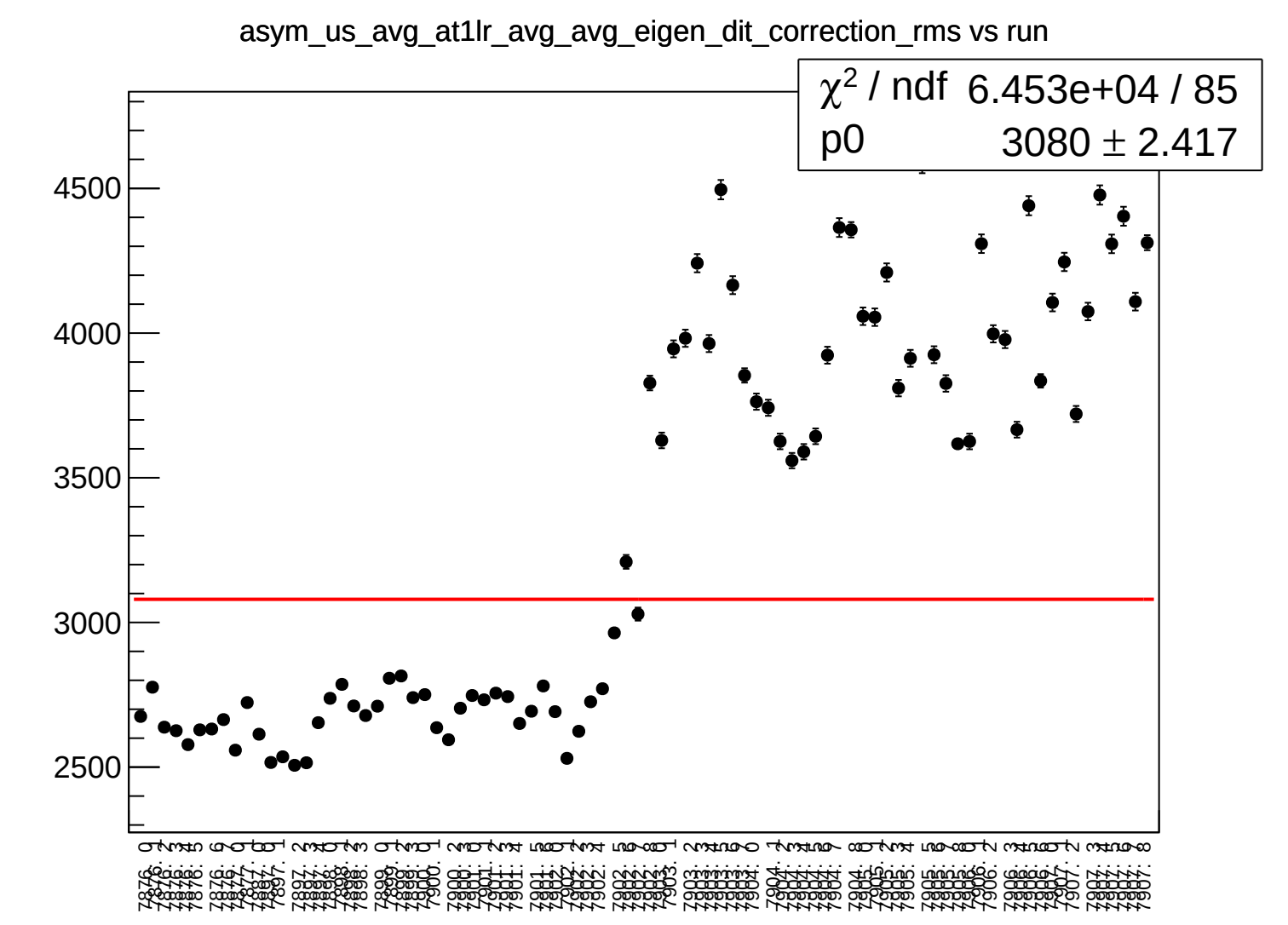

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 83.04 / 85
p0 2918 ± 2535
pull
Entries 86
Mean 292.6
Std Dev 0

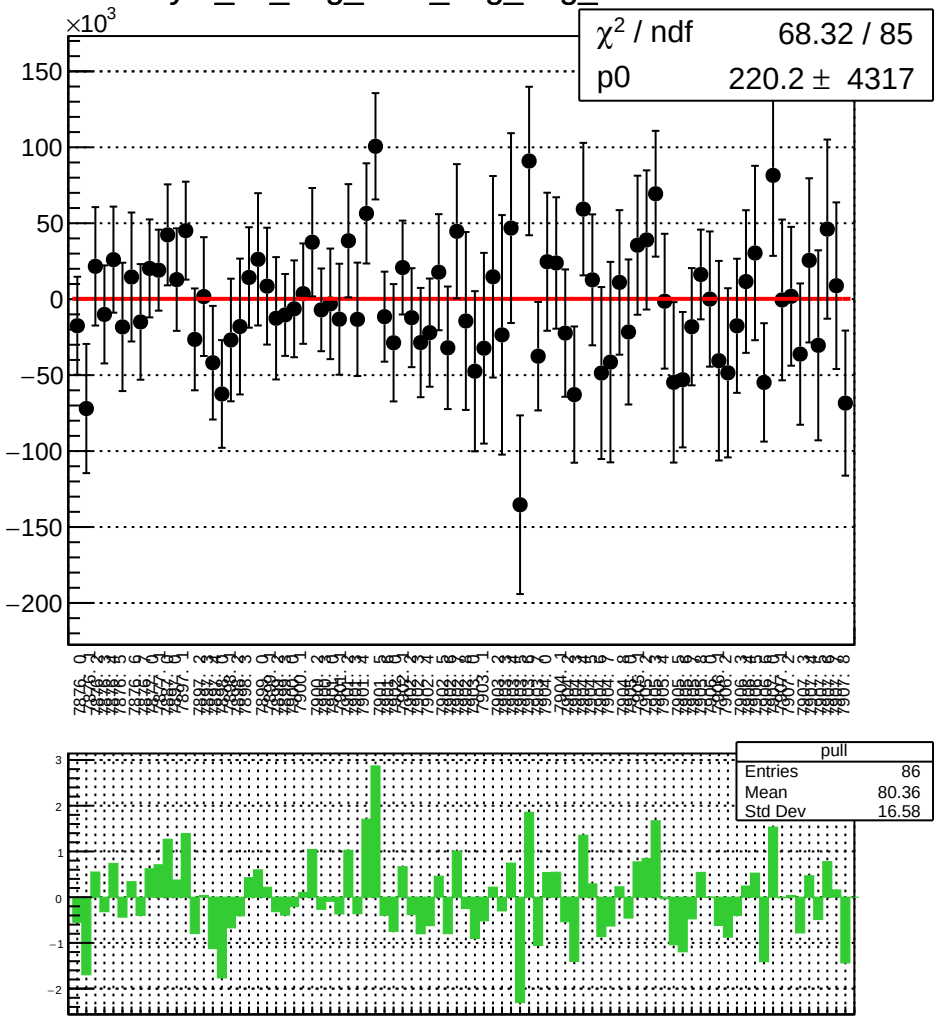

pull1D
Entries 86
Mean −0.01556
Std Dev 0.9825

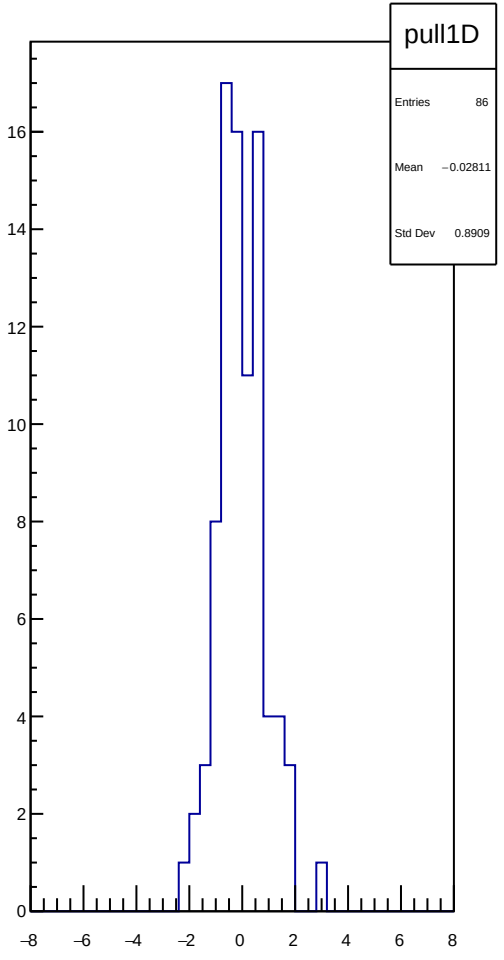

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 9149 / 85
p0 2322 ± 1.792
3800
3600
3400
3200
3000
2800
2600
2400
2200

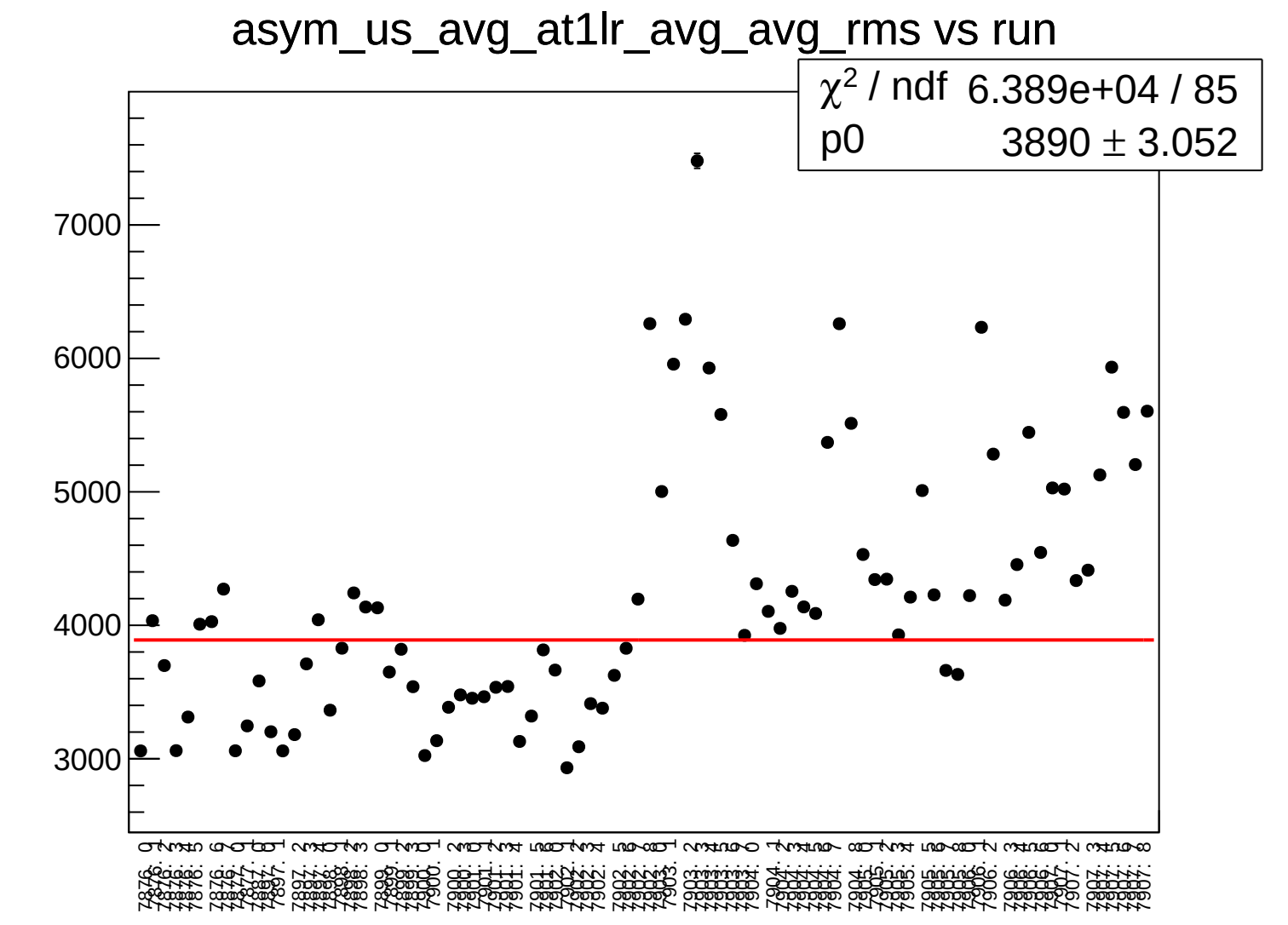

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 75.68 / 85
p0 4750 ± 3419
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 314.1
Std Dev 0
2
1
0
−1
−2
−3

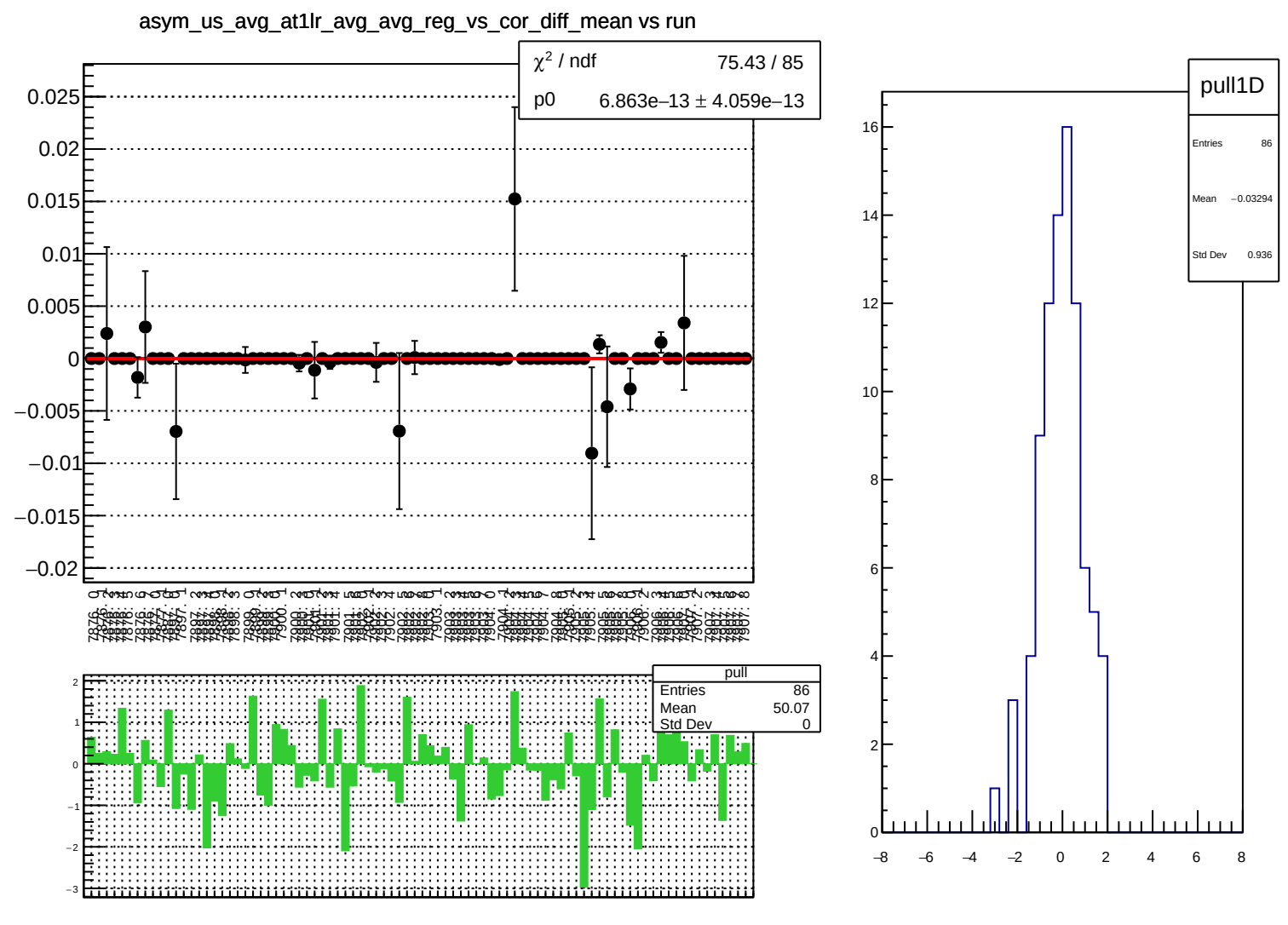

pull1D
Entries 86
Mean −0.00447
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

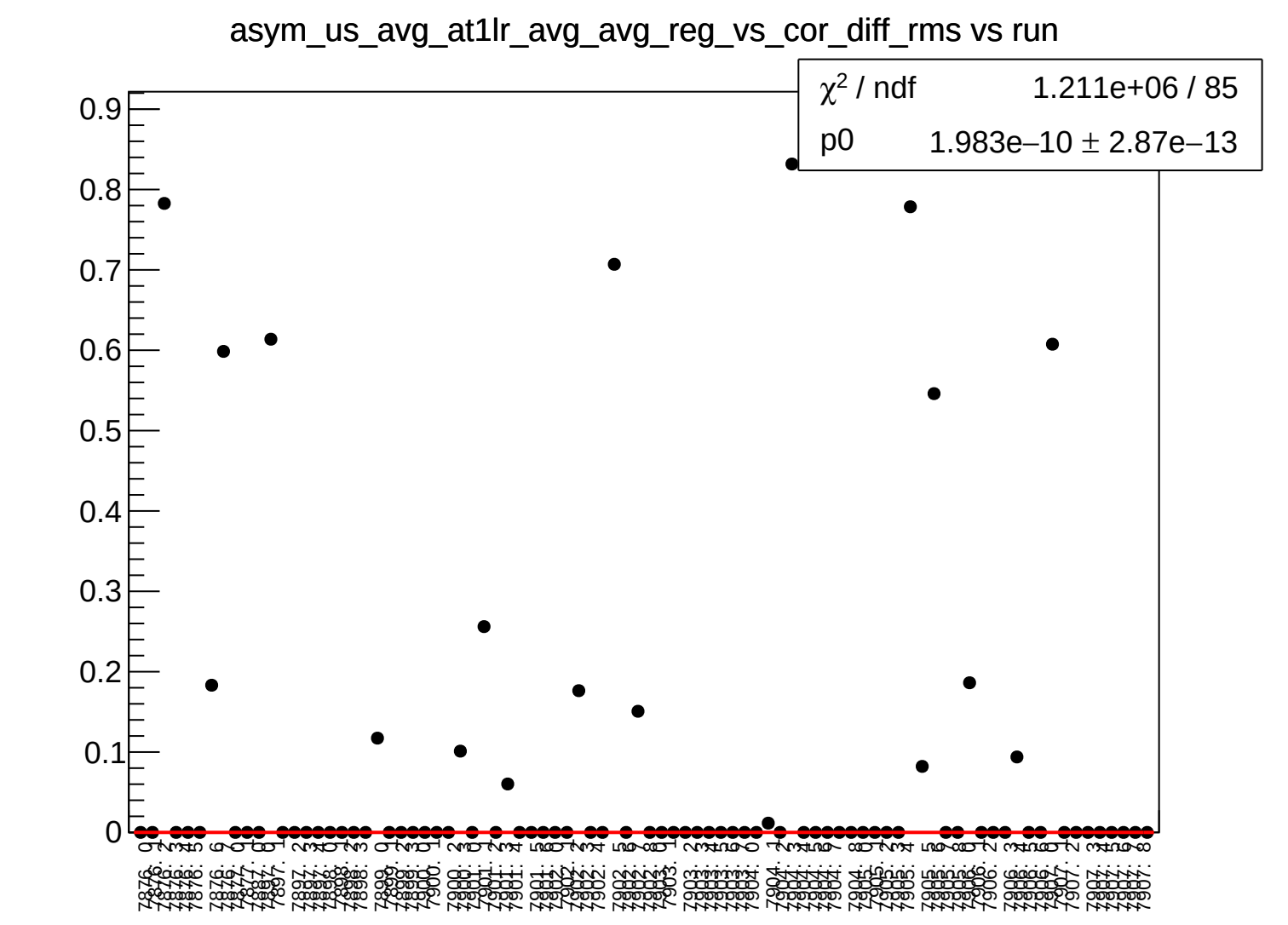

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.453e+04 / 85
p0 3080 ± 2.417
4500
4000
3500
3000
2500

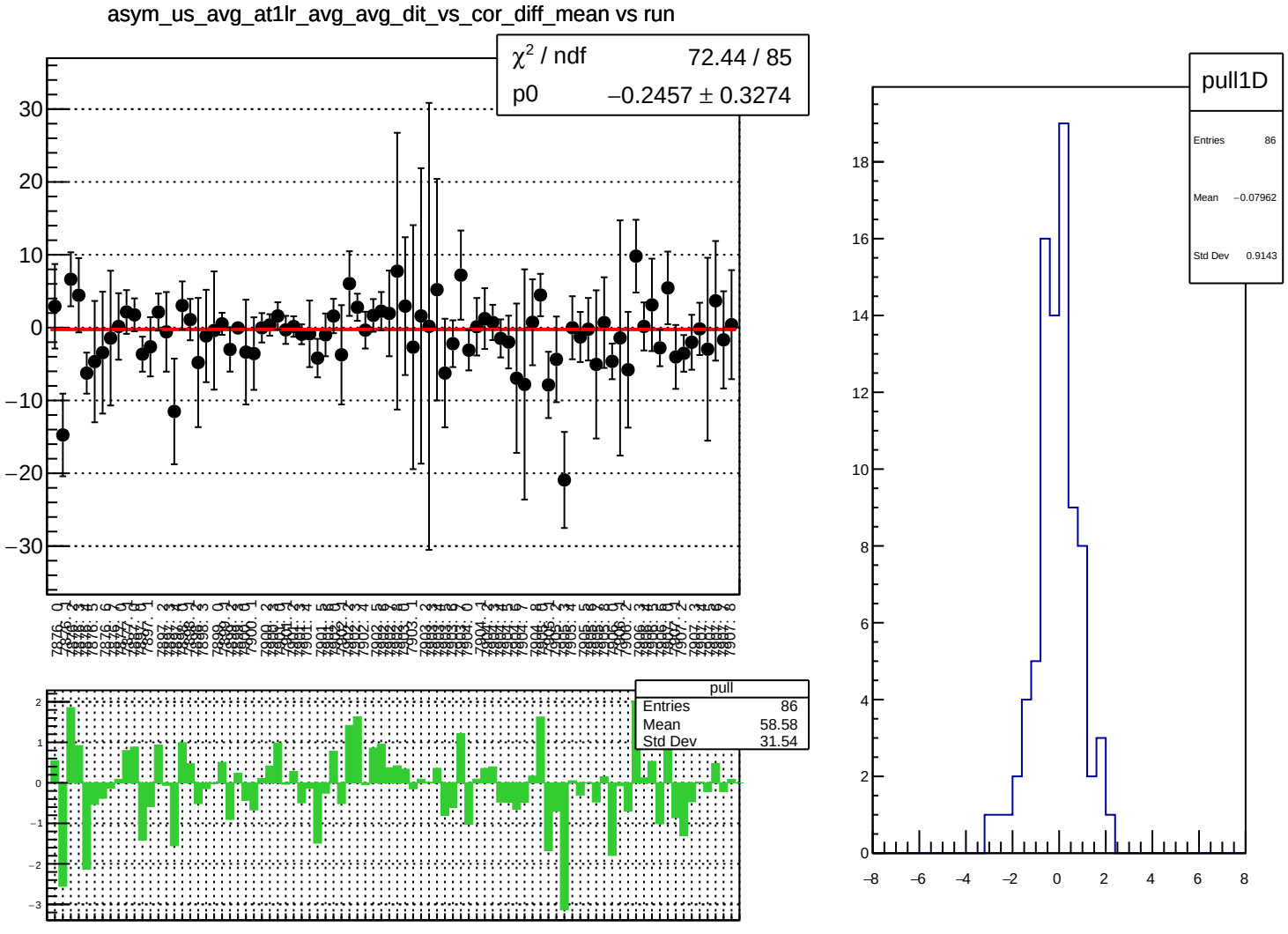

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 68.32 / 85
p0 220.2 ± 4317
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 80.36
Std Dev 16.58
3
2
1
0
−1
−2

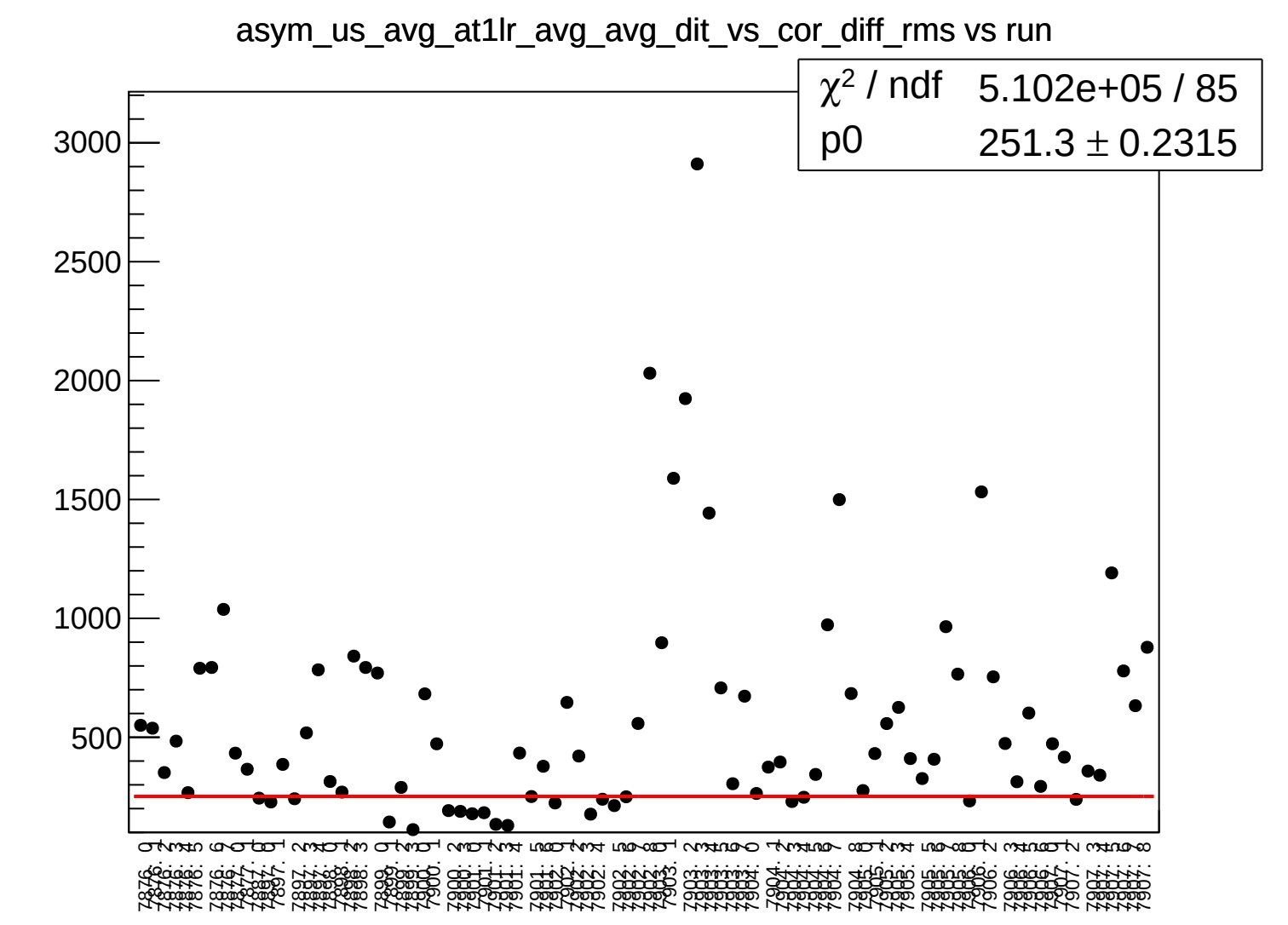

pull1D
Entries 86
Mean −0.02811
Std Dev 0.8909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

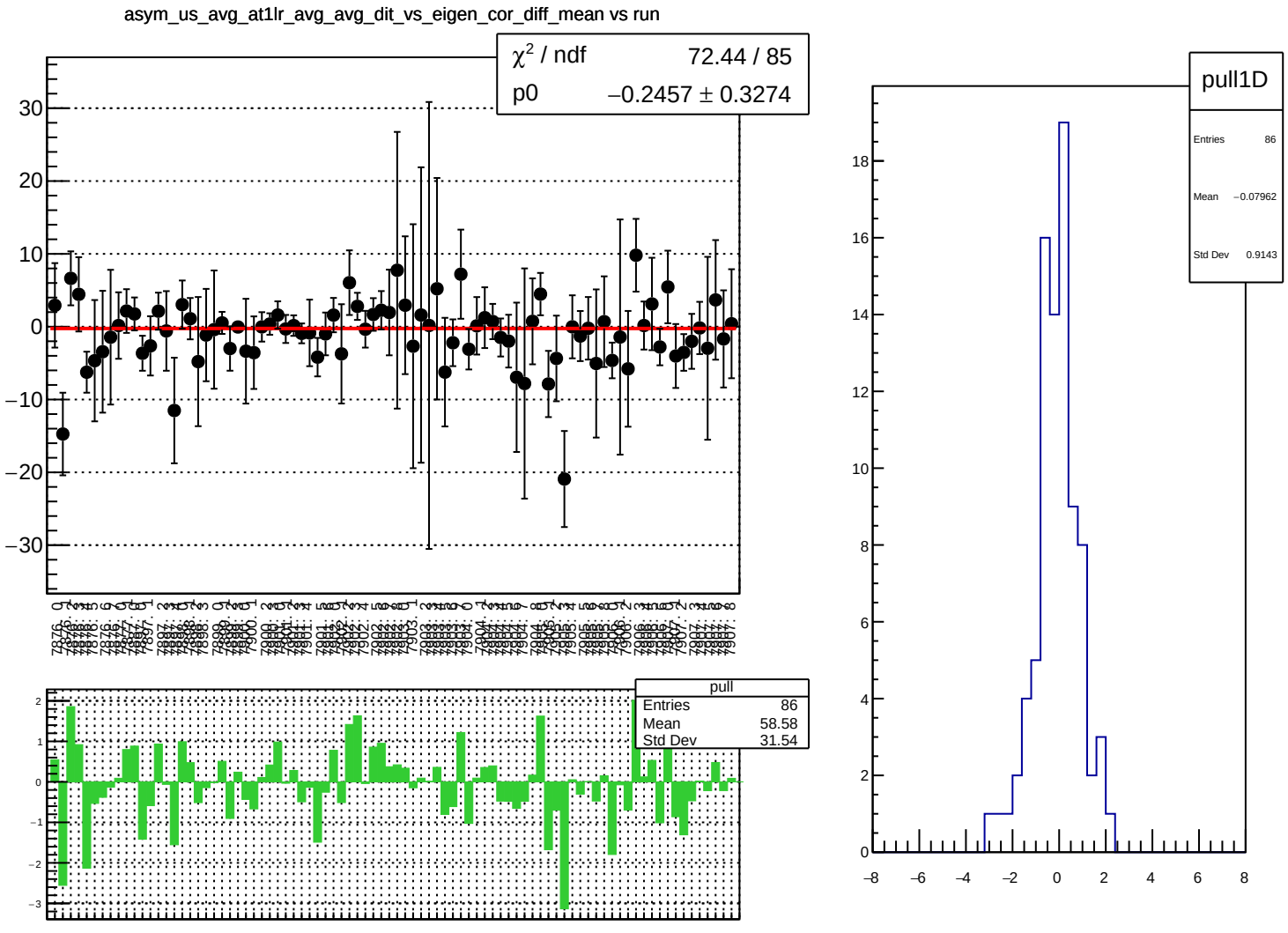

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 6.389e+04 / 85
p0 3890 ± 3.052
7000
6000
5000
4000
3000

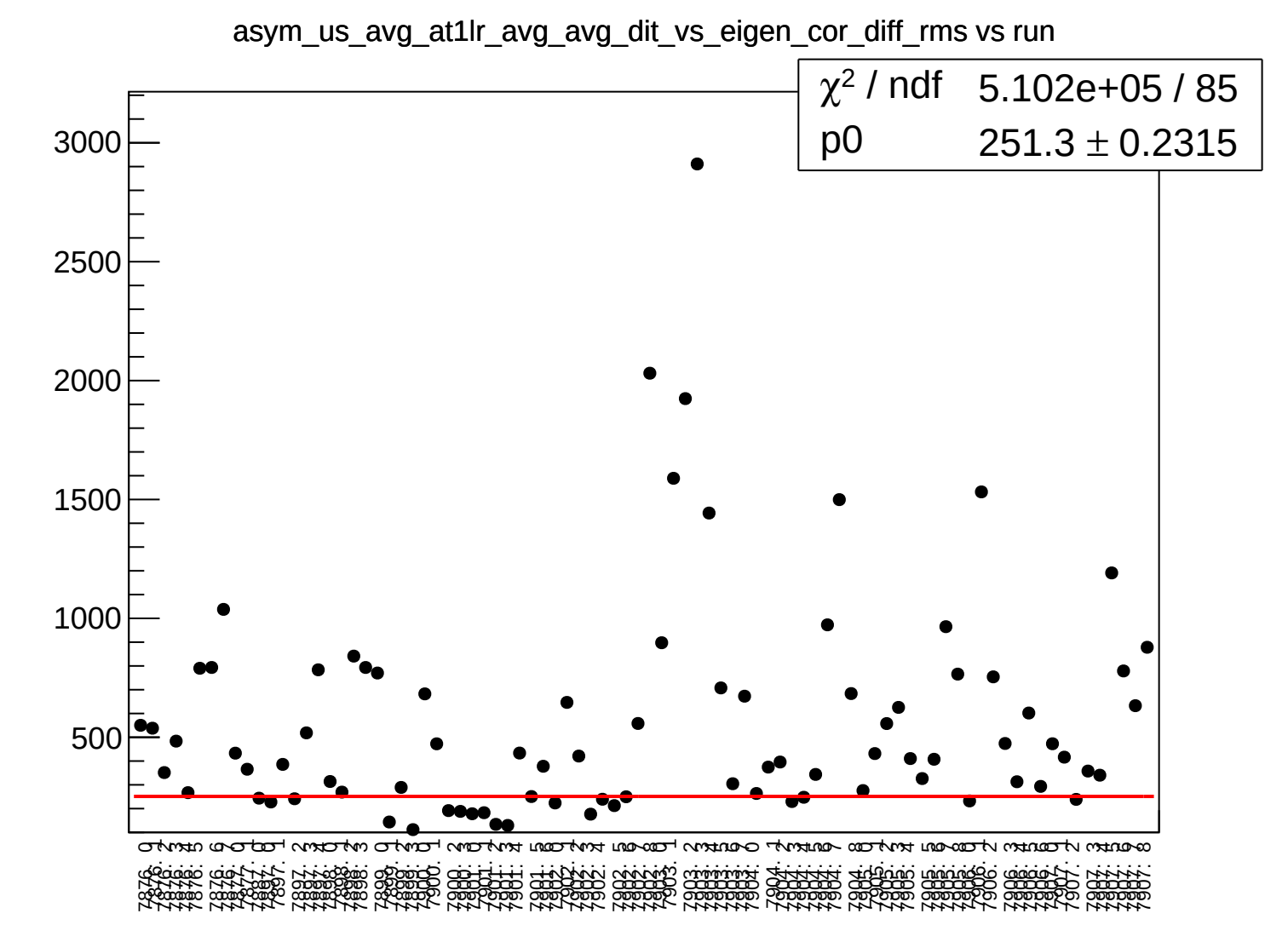

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.43 / 85
p0 6.863e−13 ± 4.059e−13
pull
Entries 86
Mean 50.07
Std Dev 0
pull1D
Entries 86
Mean −0.03294
Std Dev 0.936

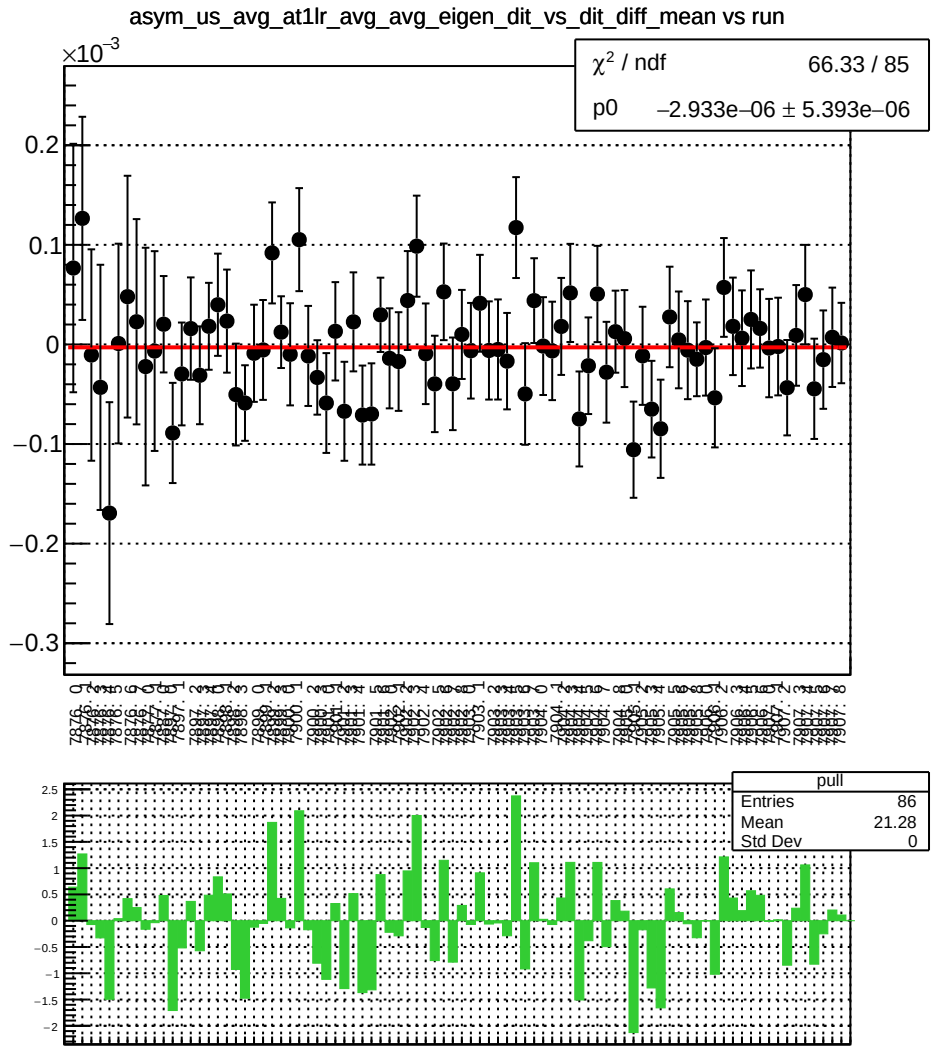

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.211e+06 / 85
p0 1.983e−10 ± 2.87e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

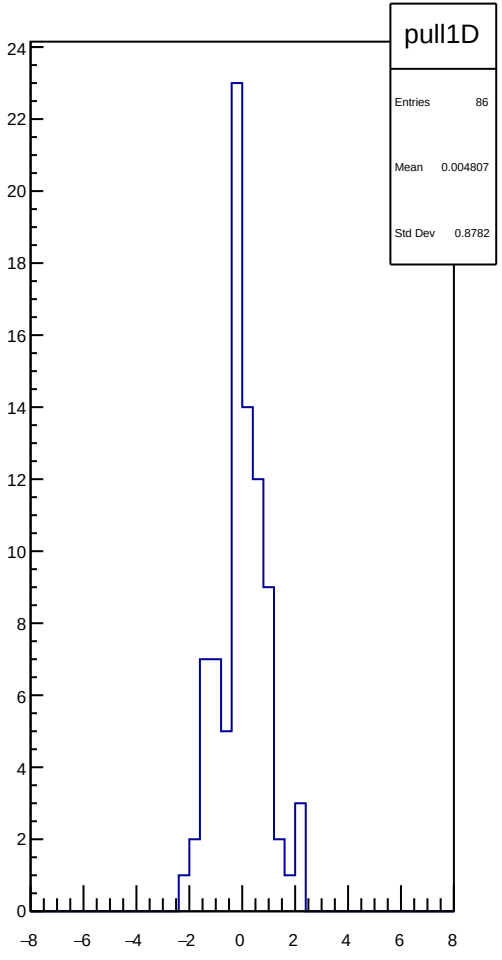

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.44 / 85
p0 −0.2457 ± 0.3274
pull
Entries 86
Mean 58.58
Std Dev 31.54
pull1D
Entries 86
Mean −0.07962
Std Dev 0.9143

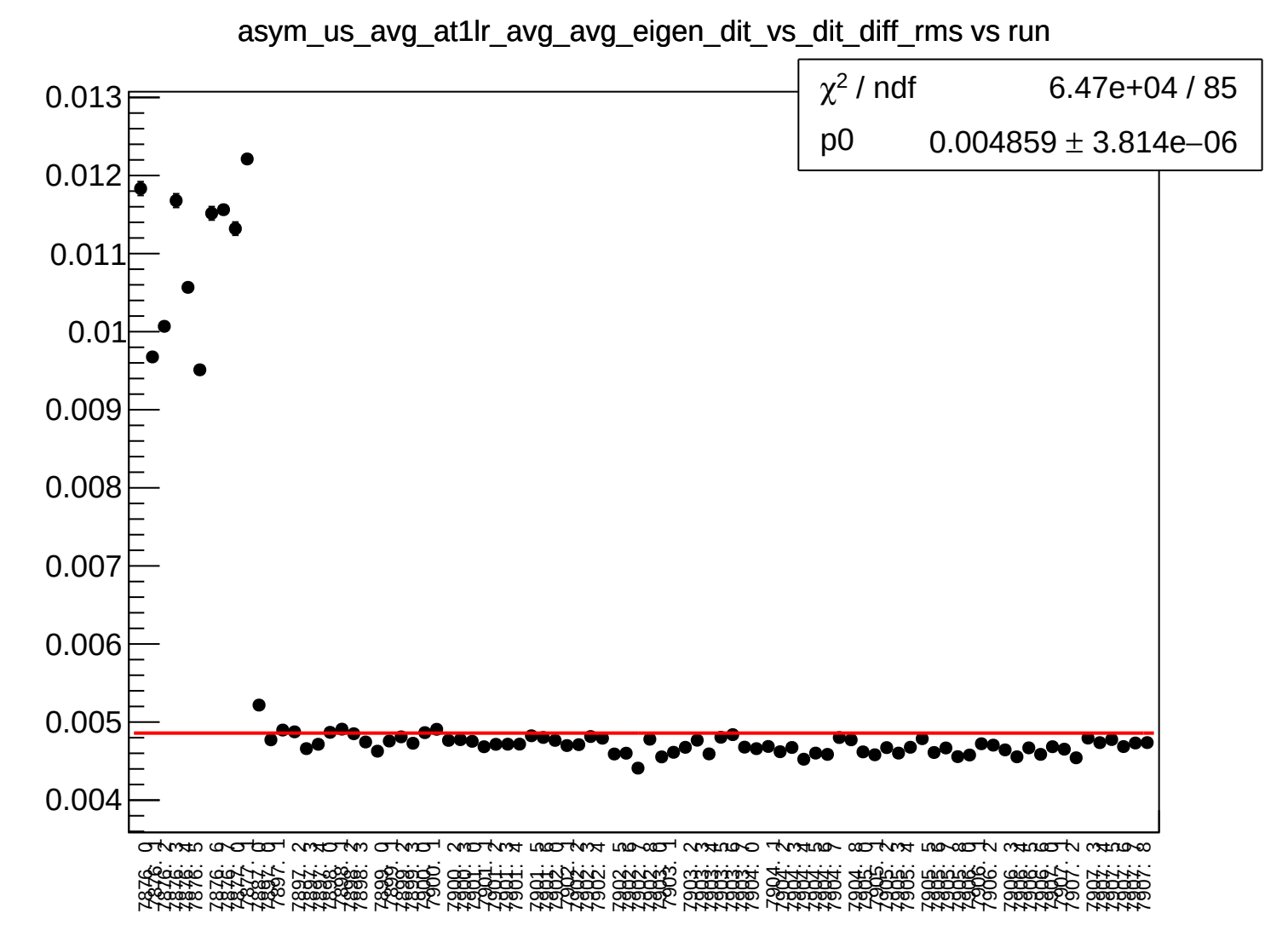

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.102e+05 / 85
p0 251.3 ± 0.2315
3000
2500
2000
1500
1000
500

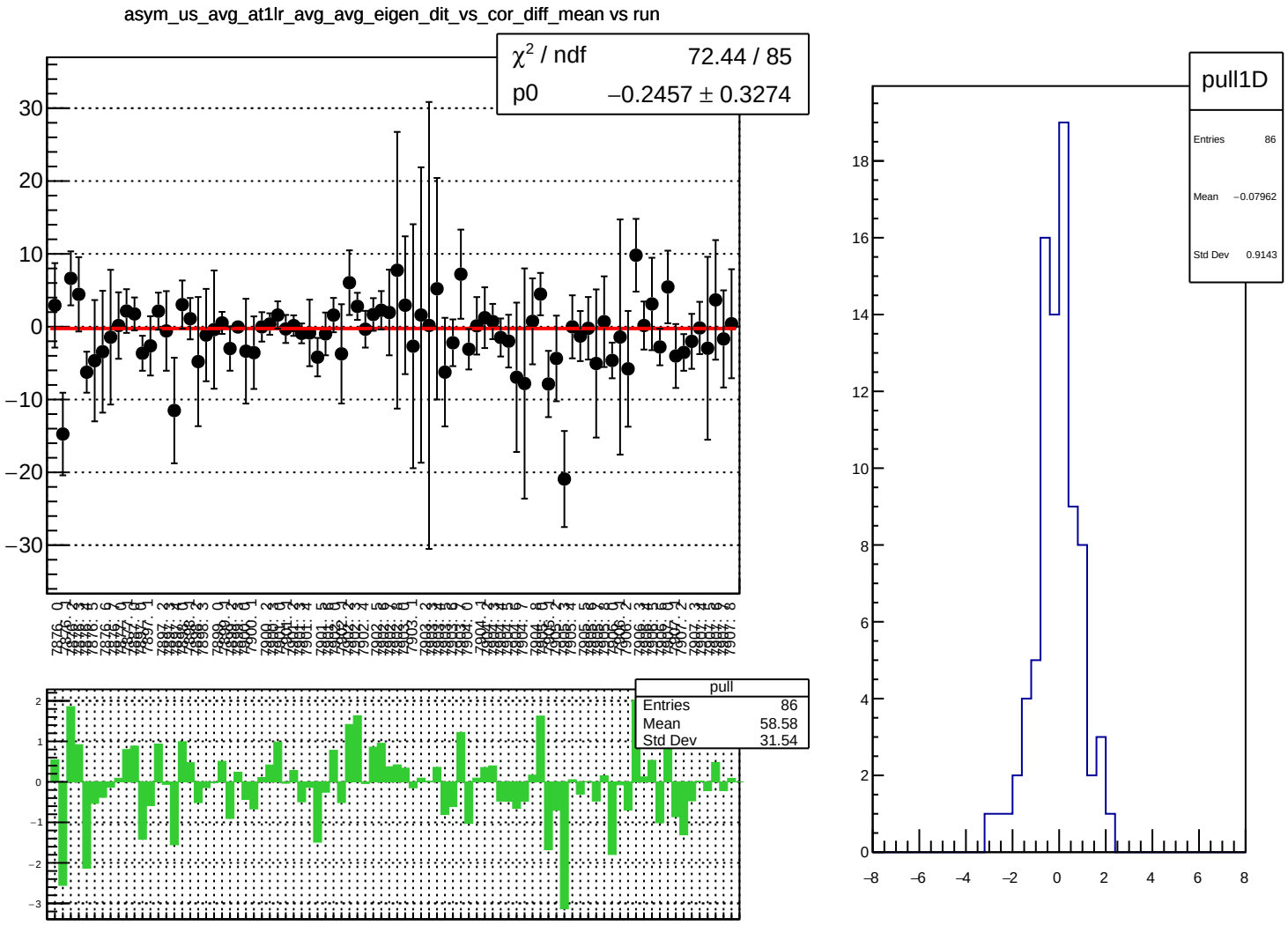

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.44 / 85
p0 −0.2457 ± 0.3274
pull
Entries 86
Mean 58.58
Std Dev 31.54
pull1D
Entries 86
Mean −0.07962
Std Dev 0.9143

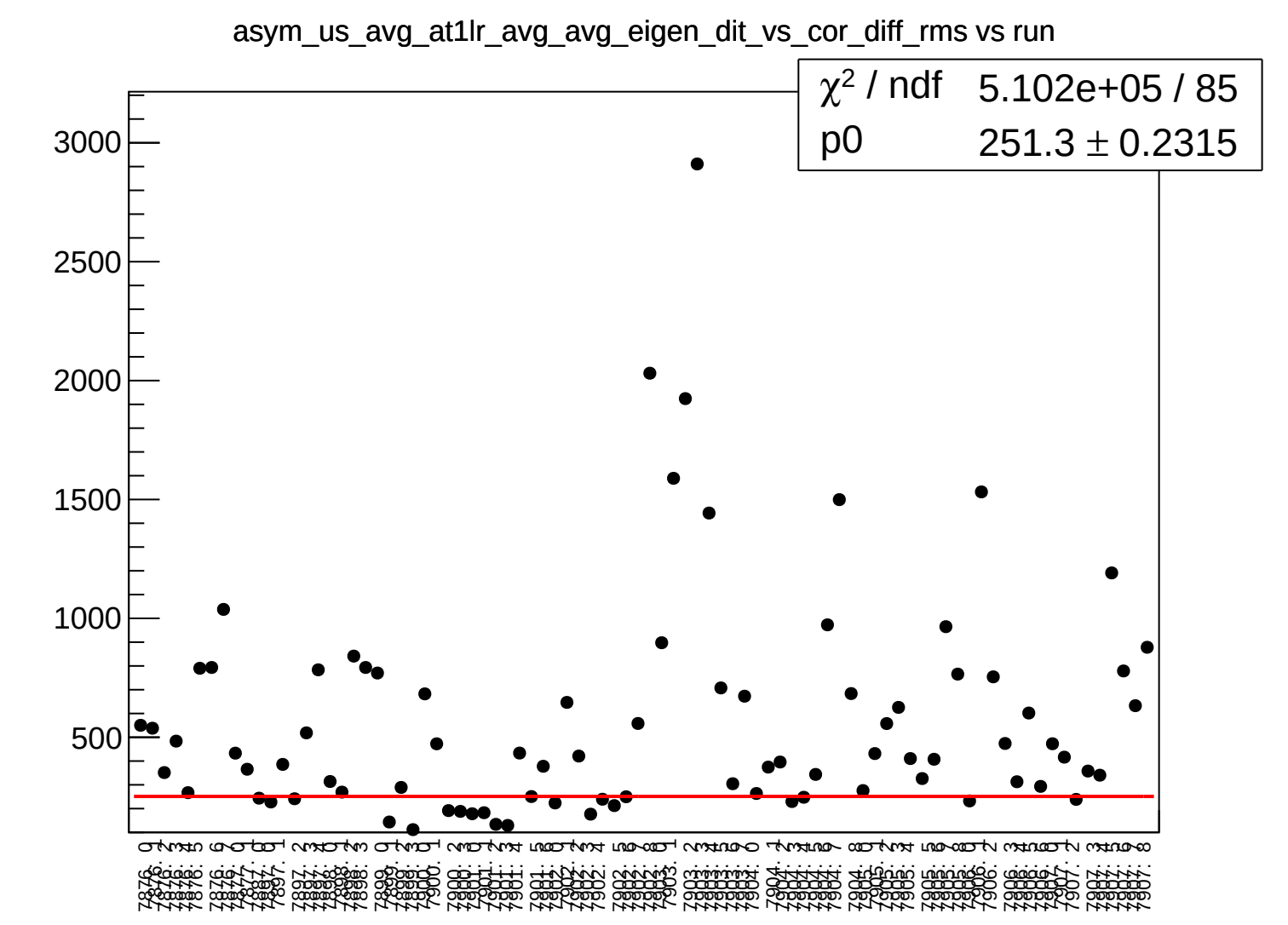

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.102e+05 / 85
p0 251.3 ± 0.2315
3000
2500
2000
1500
1000
500

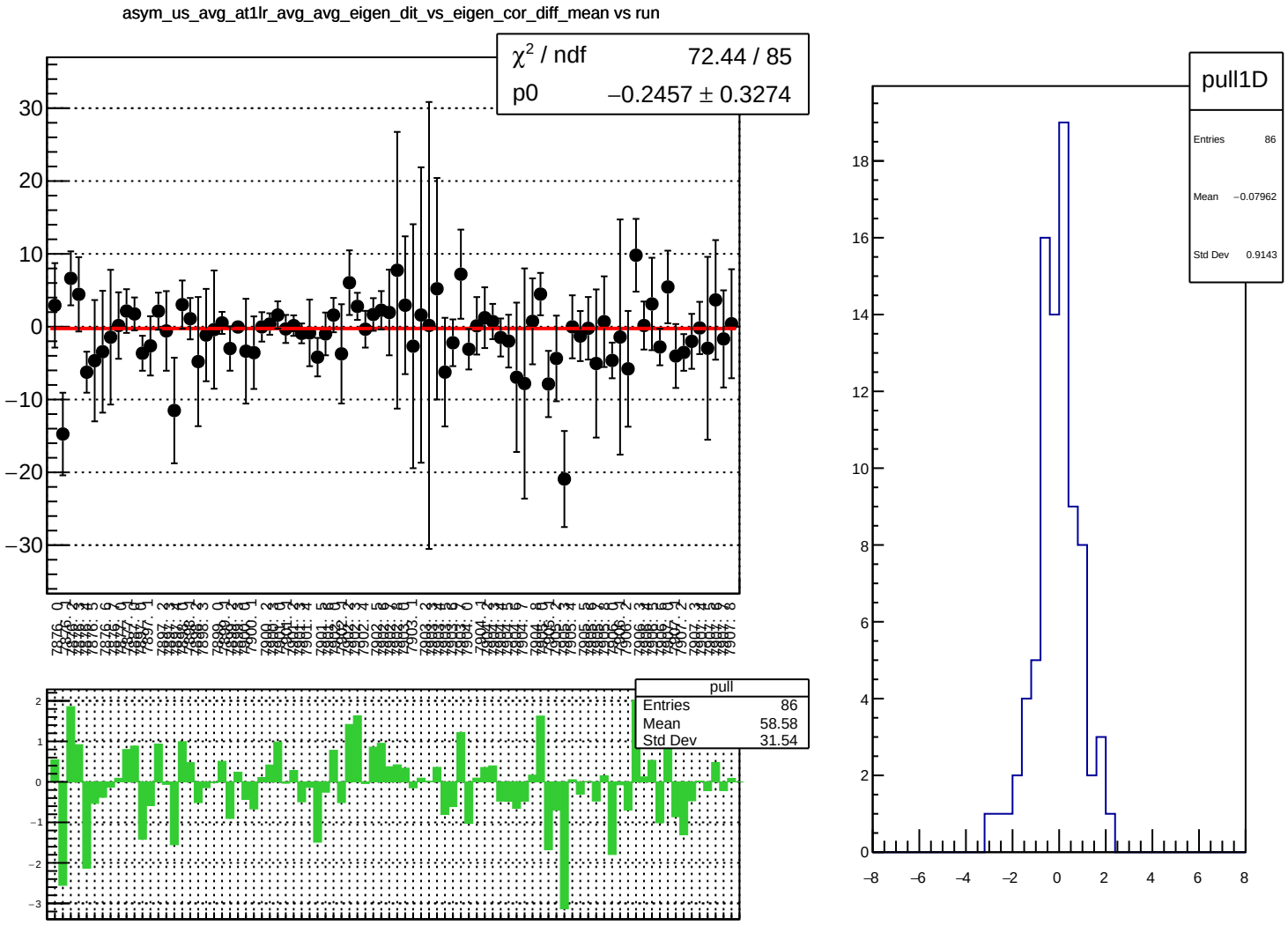

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.33 / 85
p0 −2.933e−06 ± 5.393e−06
pull
Entries 86
Mean 21.28
Std Dev 0

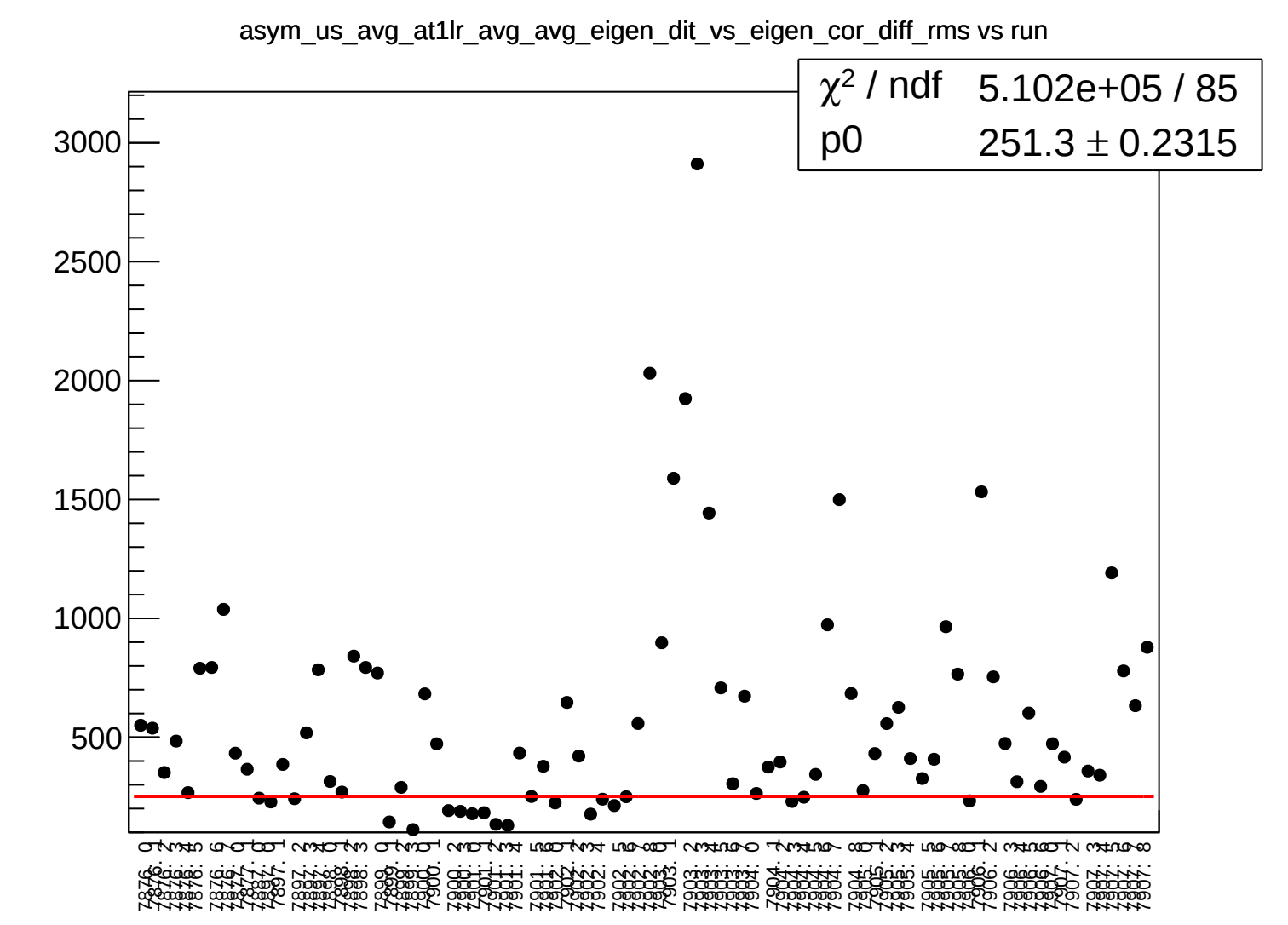

pull1D
Entries 86
Mean 0.004807
Std Dev 0.8782

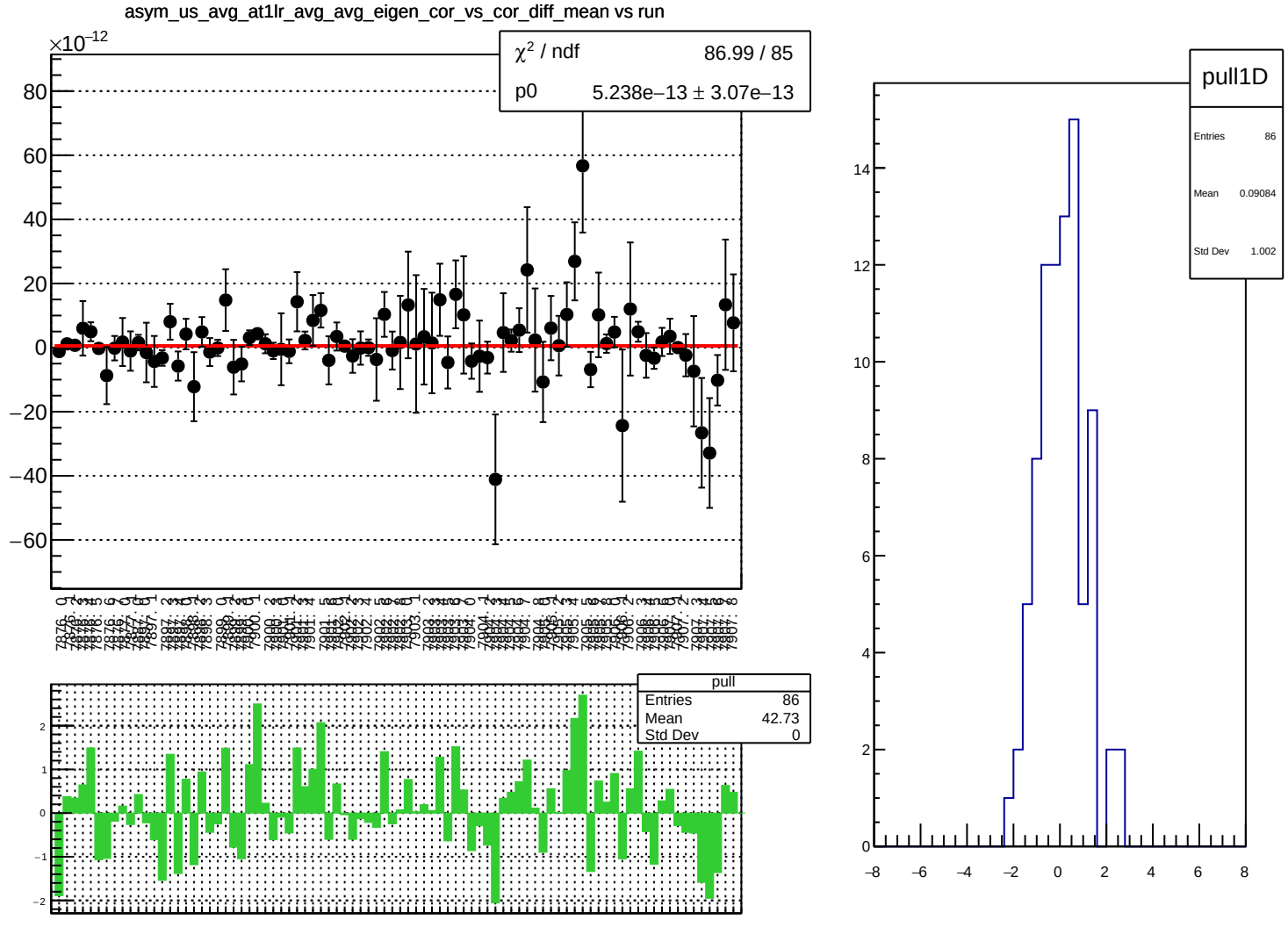

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.47e+04 / 85
p0 0.004859 ± 3.814e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

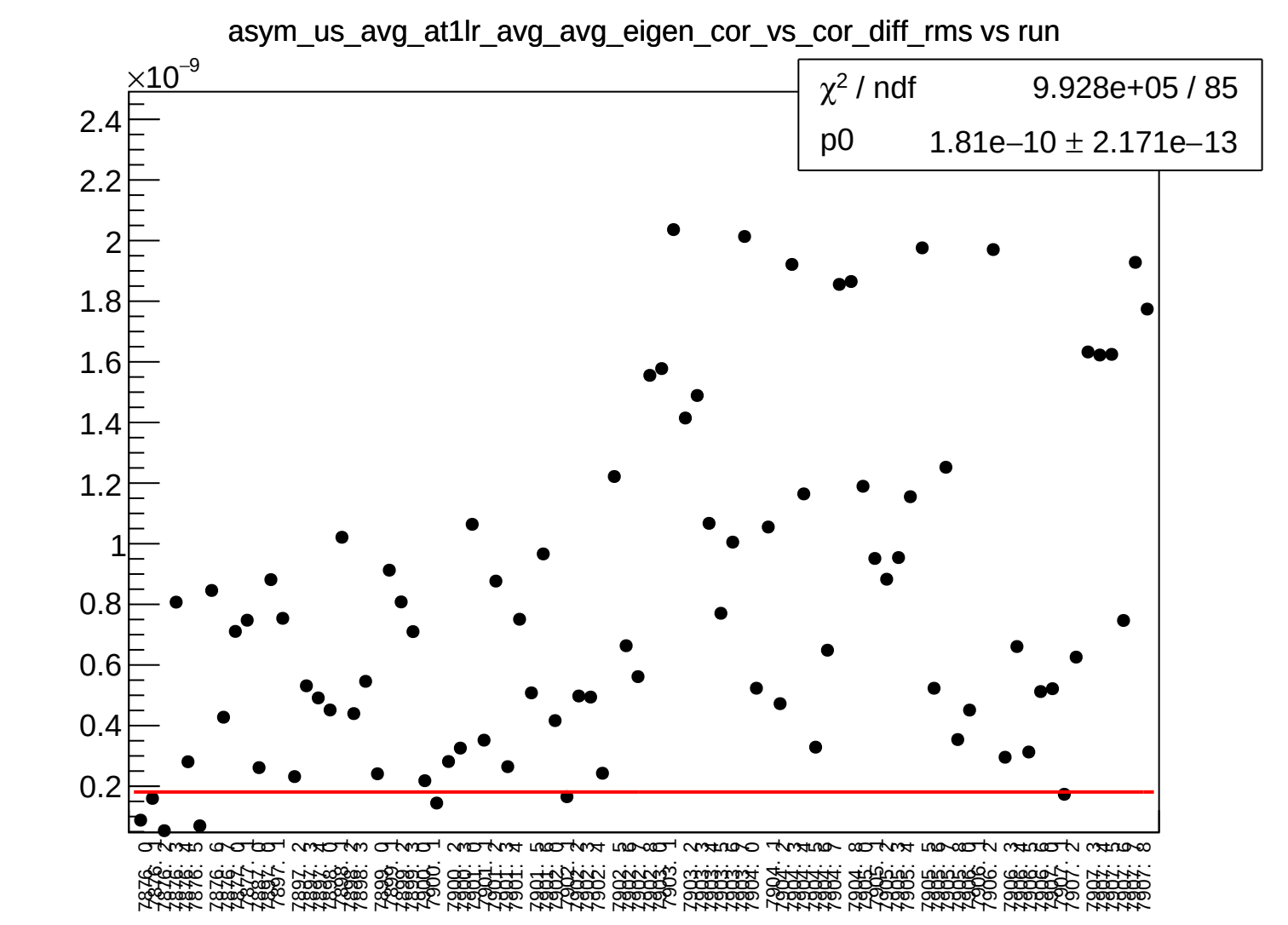

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.44 / 85
p0 −0.2457 ± 0.3274
pull
Entries 86
Mean 58.58
Std Dev 31.54
pull1D
Entries 86
Mean −0.07962
Std Dev 0.9143

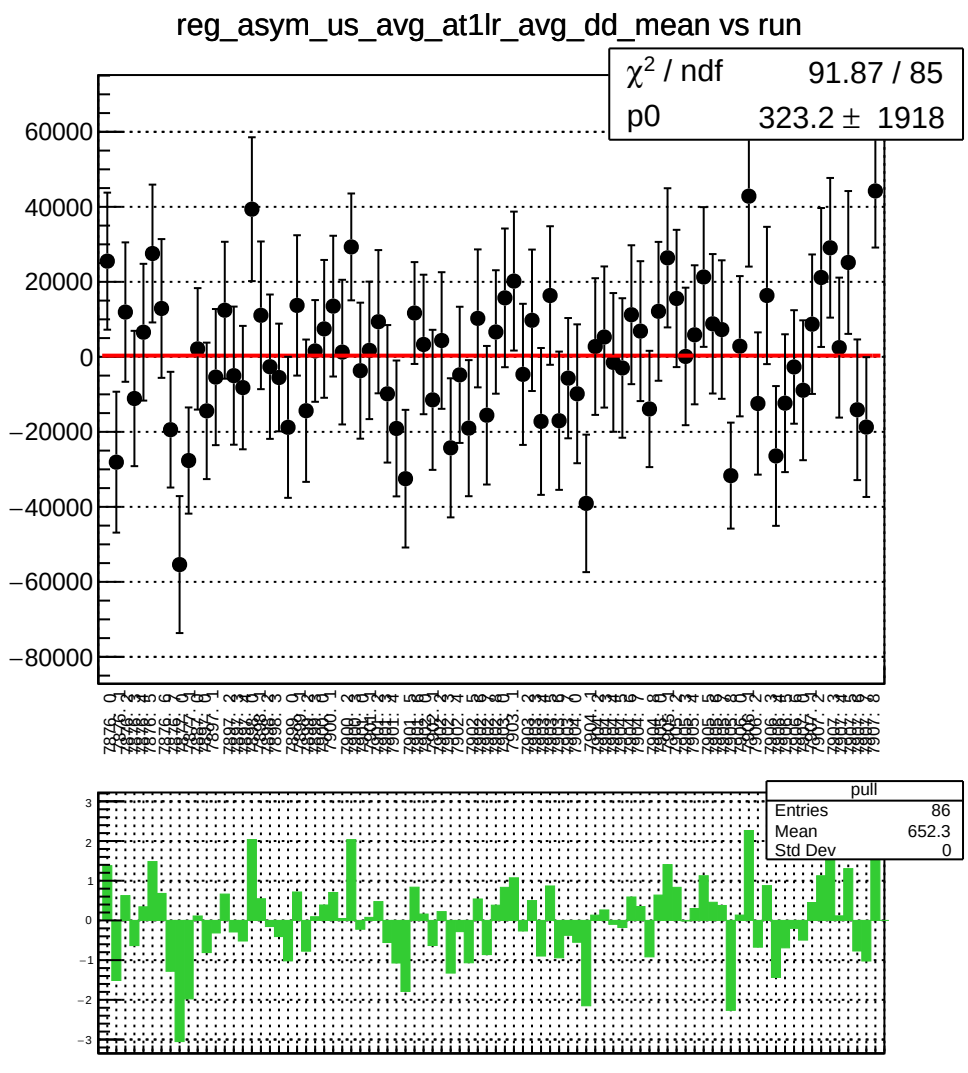

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.102e+05 / 85
p0 251.3 ± 0.2315
3000
2500
2000
1500
1000
500

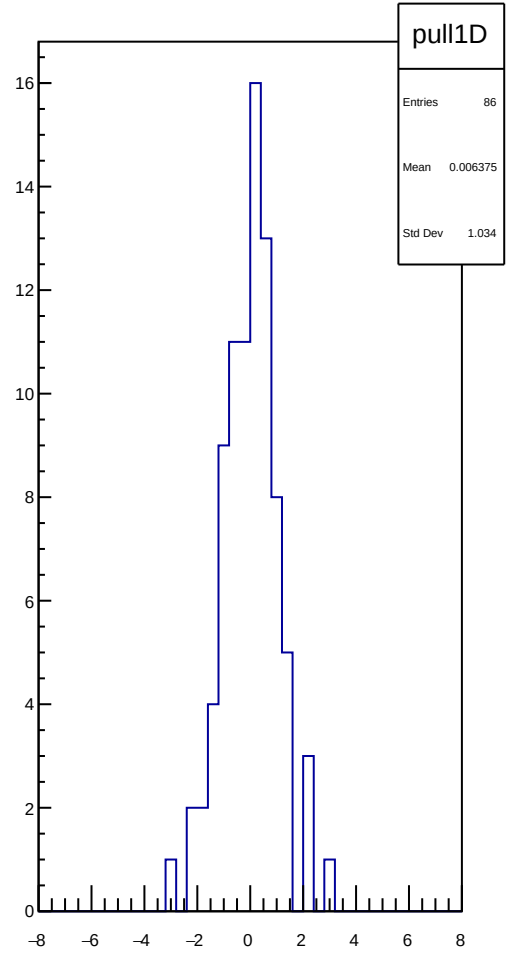

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.44 / 85
p0 −0.2457 ± 0.3274
pull
Entries 86
Mean 58.58
Std Dev 31.54
pull1D
Entries 86
Mean −0.07962
Std Dev 0.9143

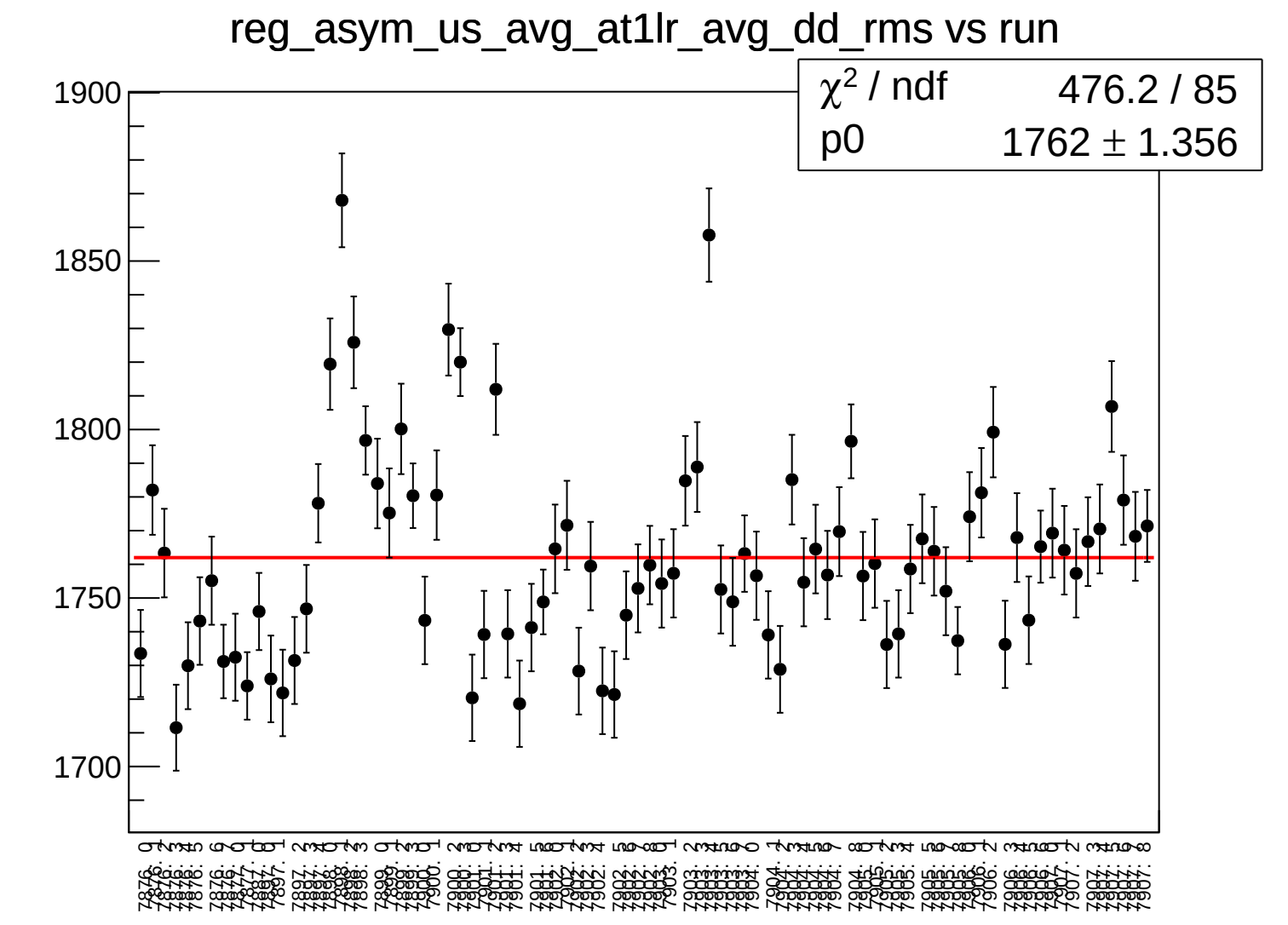

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.102e+05 / 85
p0 251.3 ± 0.2315
3000
2500
2000
1500
1000
500

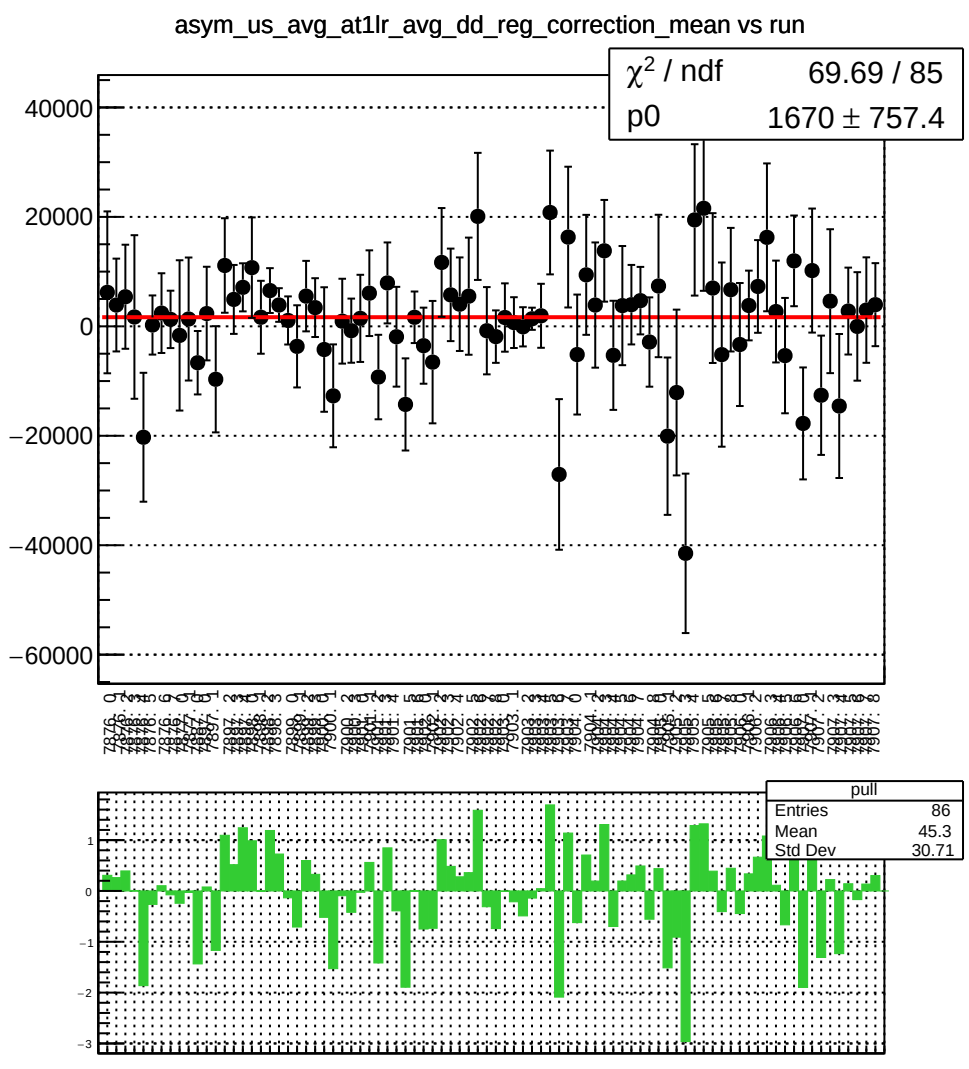

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 86.99 / 85
p0 5.238e−13 ± 3.07e−13
pull
Entries 86
Mean 42.73
Std Dev 0
pull1D
Entries 86
Mean 0.09084
Std Dev 1.002

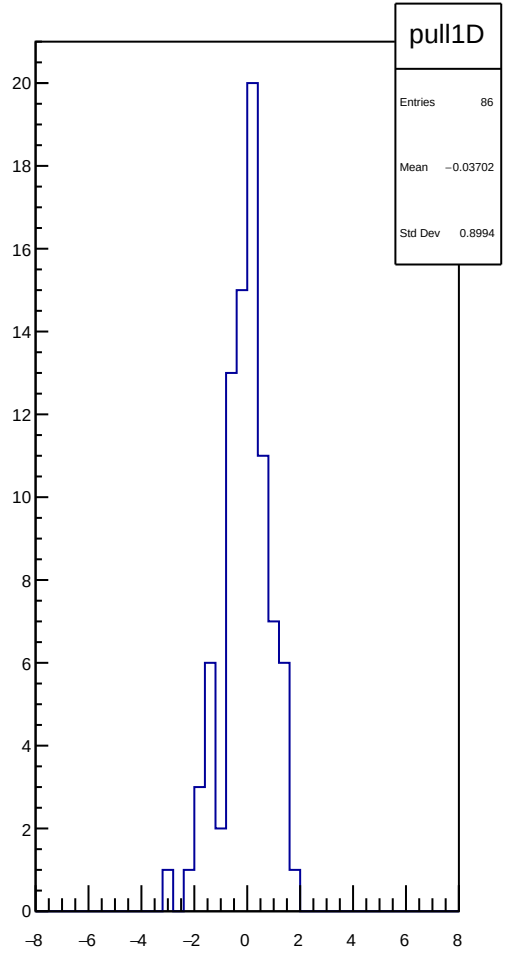

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.928e+05 / 85
p0 1.81e−10 ± 2.171e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

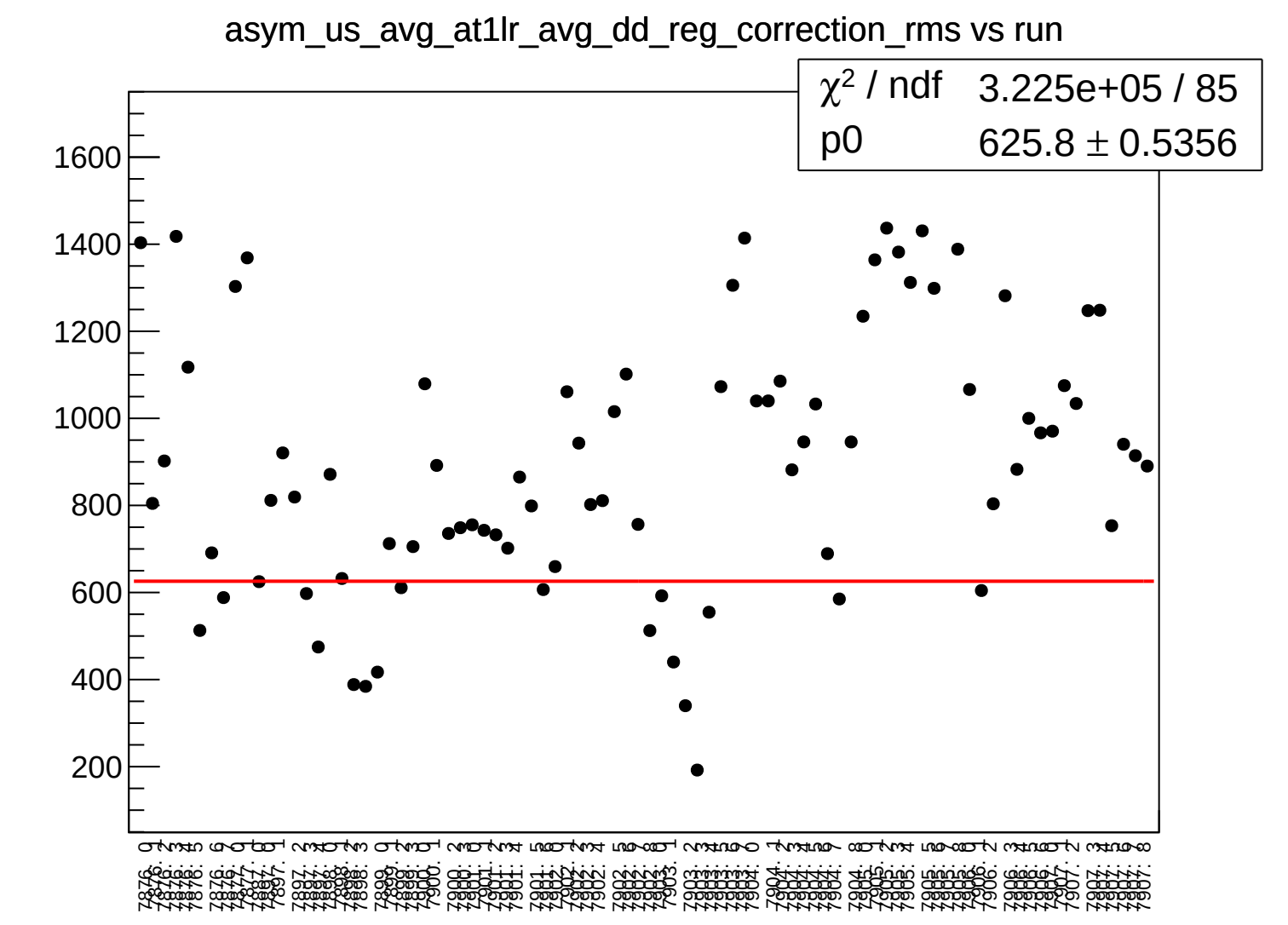

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 91.87 / 85
p0 323.2 ± 1918
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 652.3
Std Dev 0
3
2
1
0
−1
−2
−3

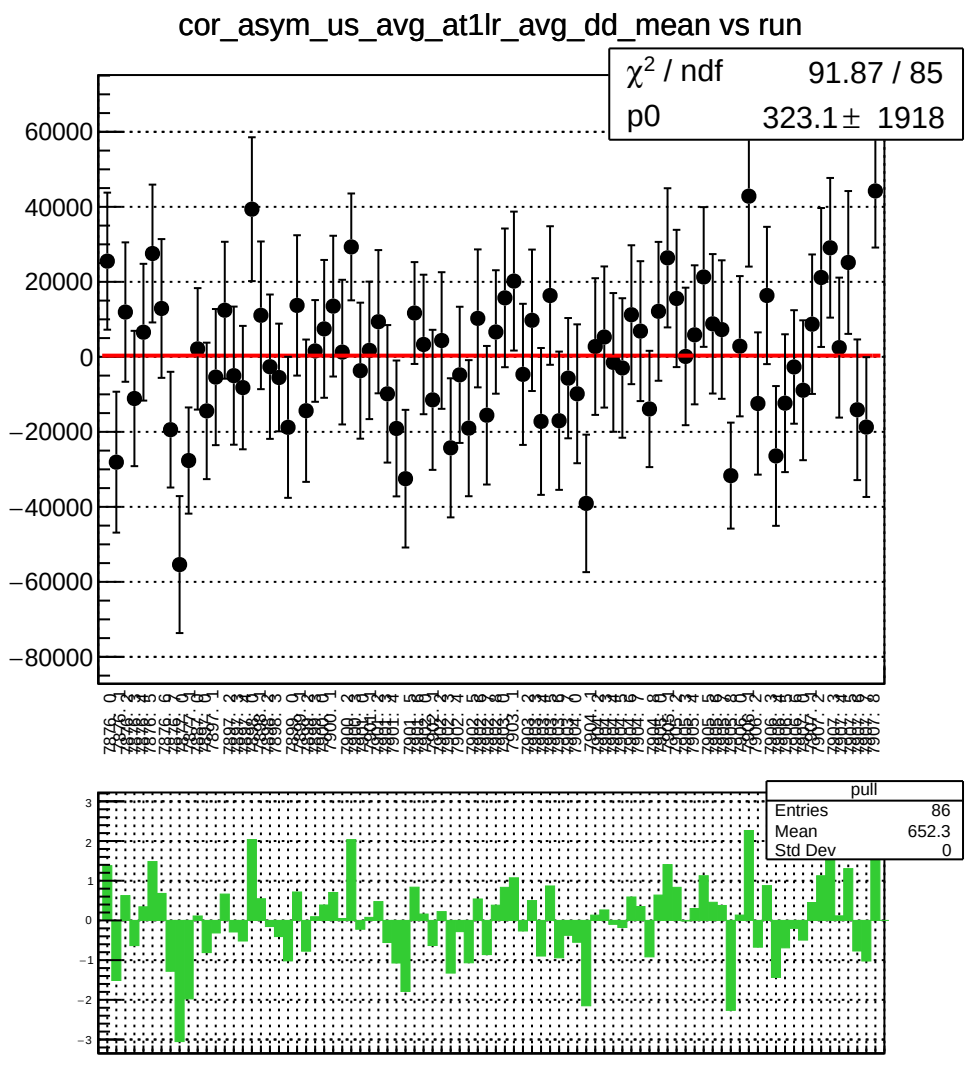

pull1D
Entries 86
Mean 0.006375
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

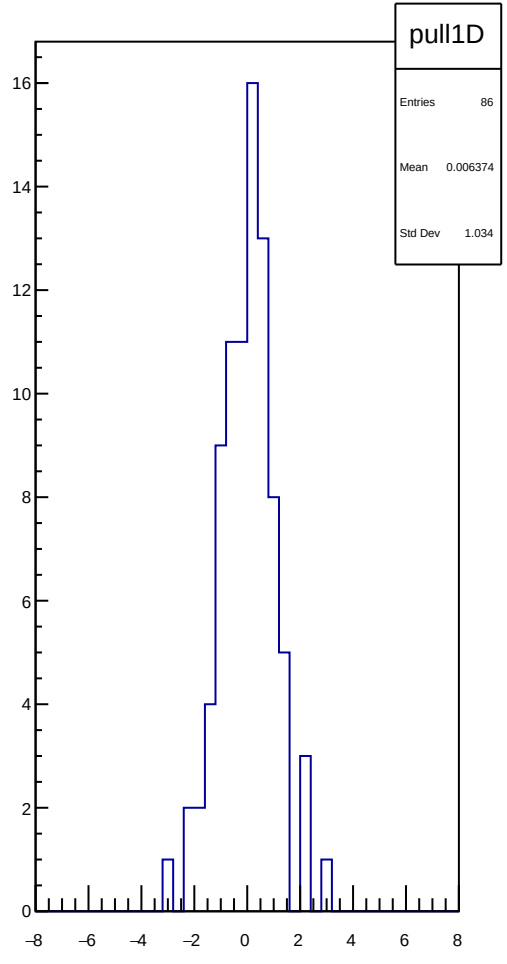

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 476.2 / 85
p0 1762 ± 1.356
1900
1850
1800
1750
1700

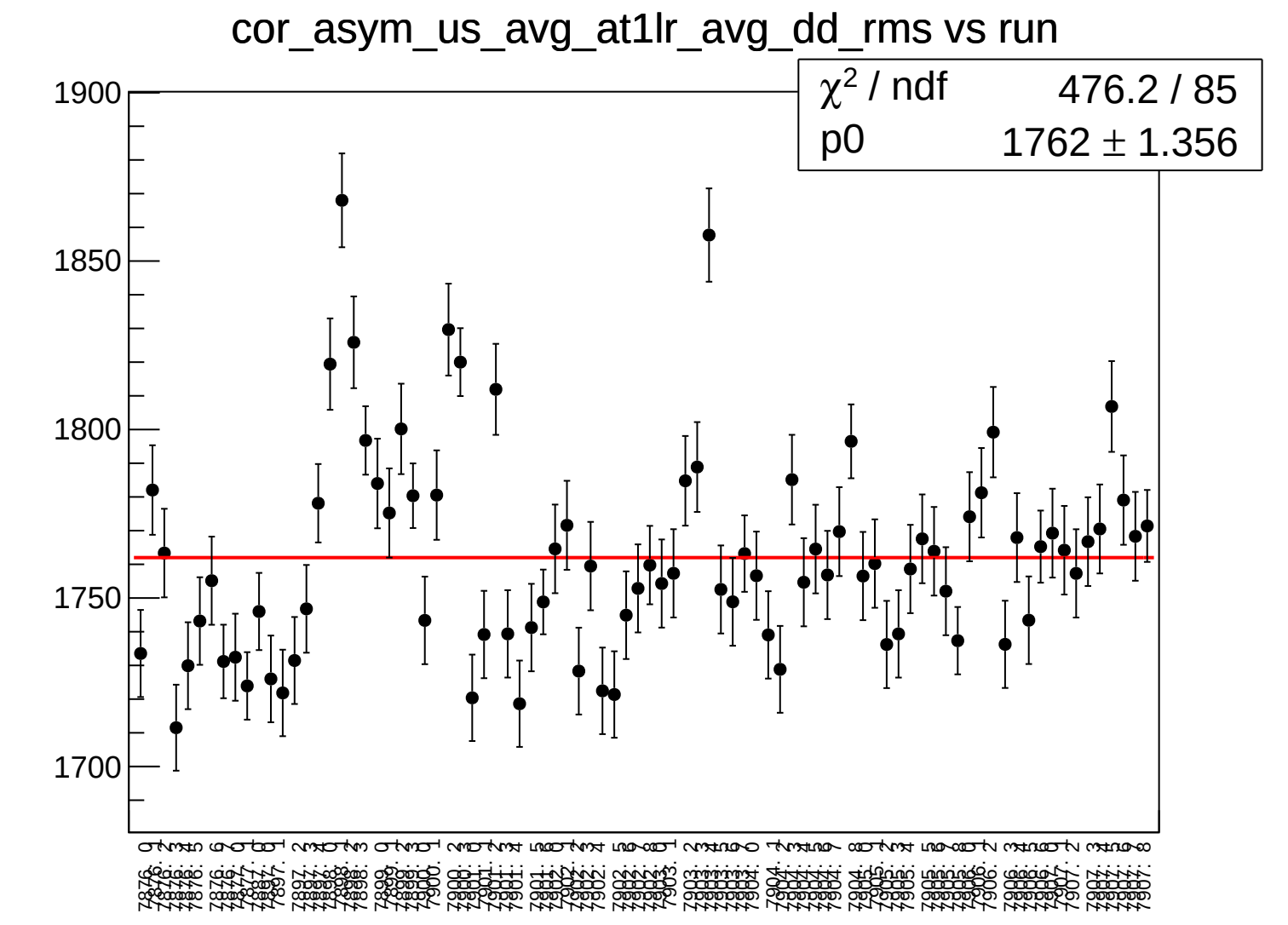

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 69.69 / 85
p0 1670 ± 757.4
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 45.3
Std Dev 30.71
1
0
−1
−2
−3

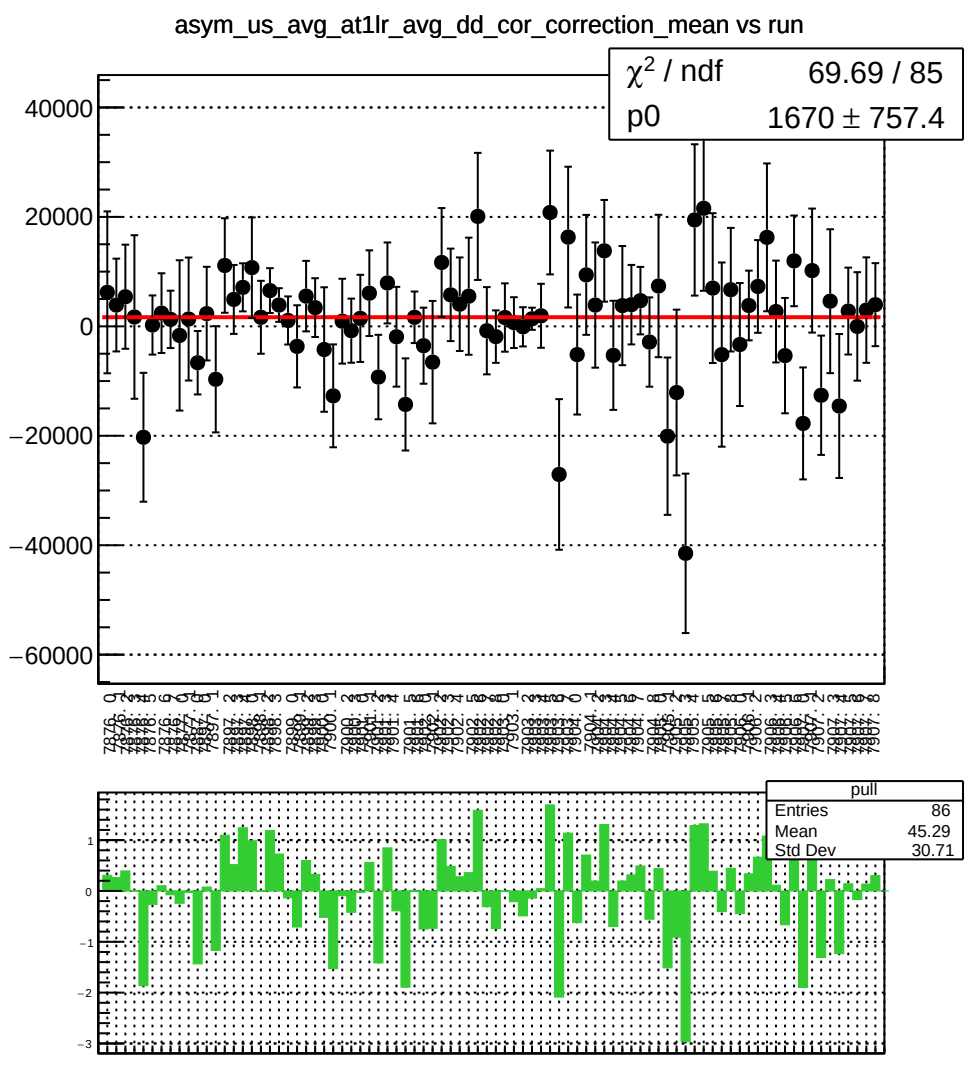

pull1D
Entries 86
Mean −0.03702
Std Dev 0.8994
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

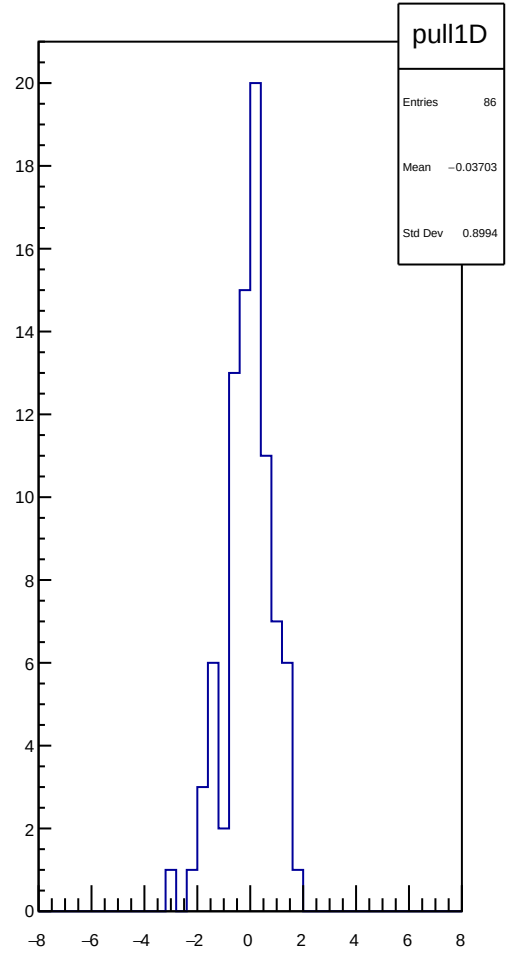

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 3.225e+05 / 85
p0 625.8 ± 0.5356
1600
1400
1200
1000
800
600
400
200

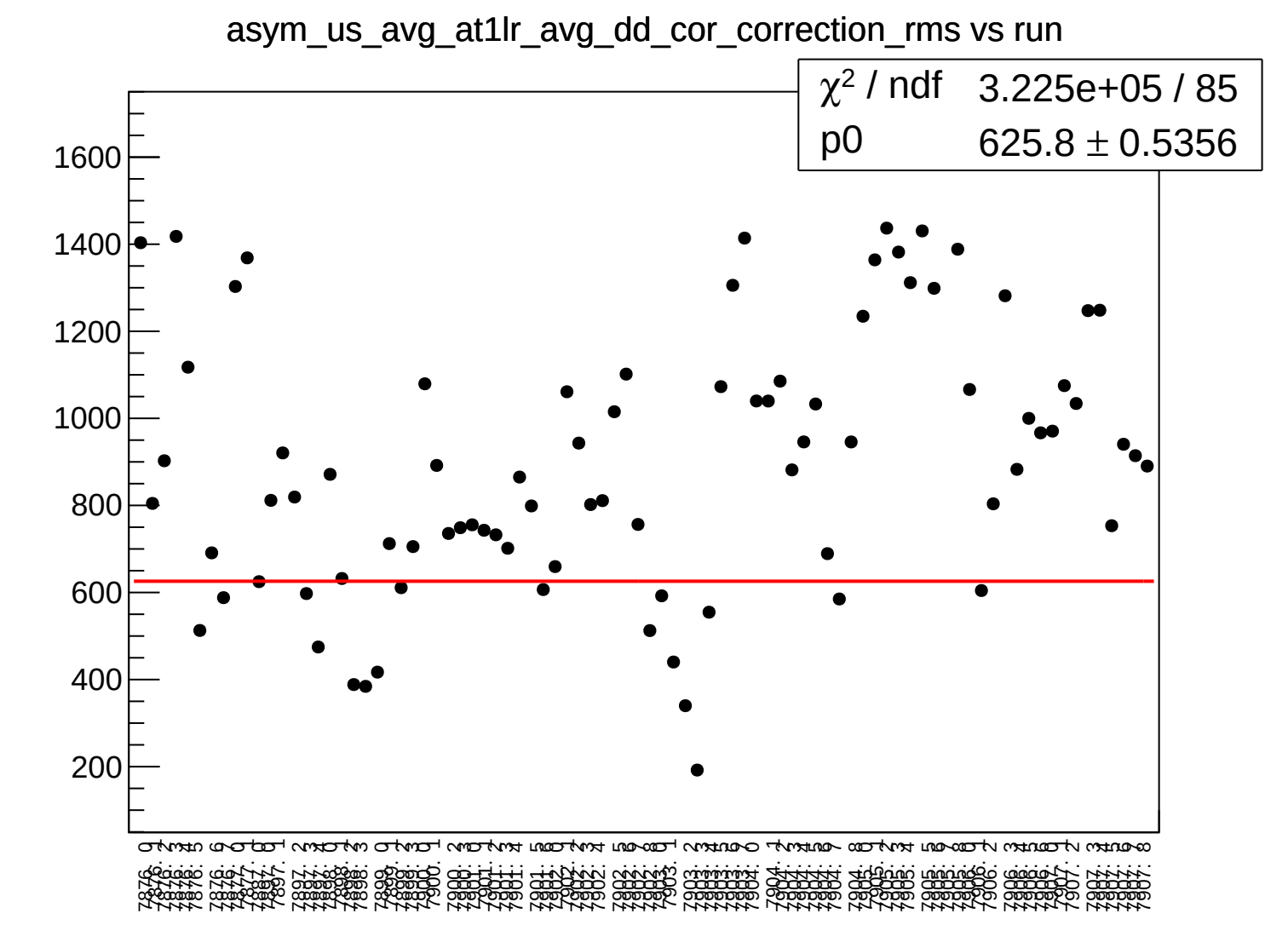

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 91.87 / 85
p0 323.1 ± 1918
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 652.3
Std Dev 0
3
2
1
0
−1
−2
−3

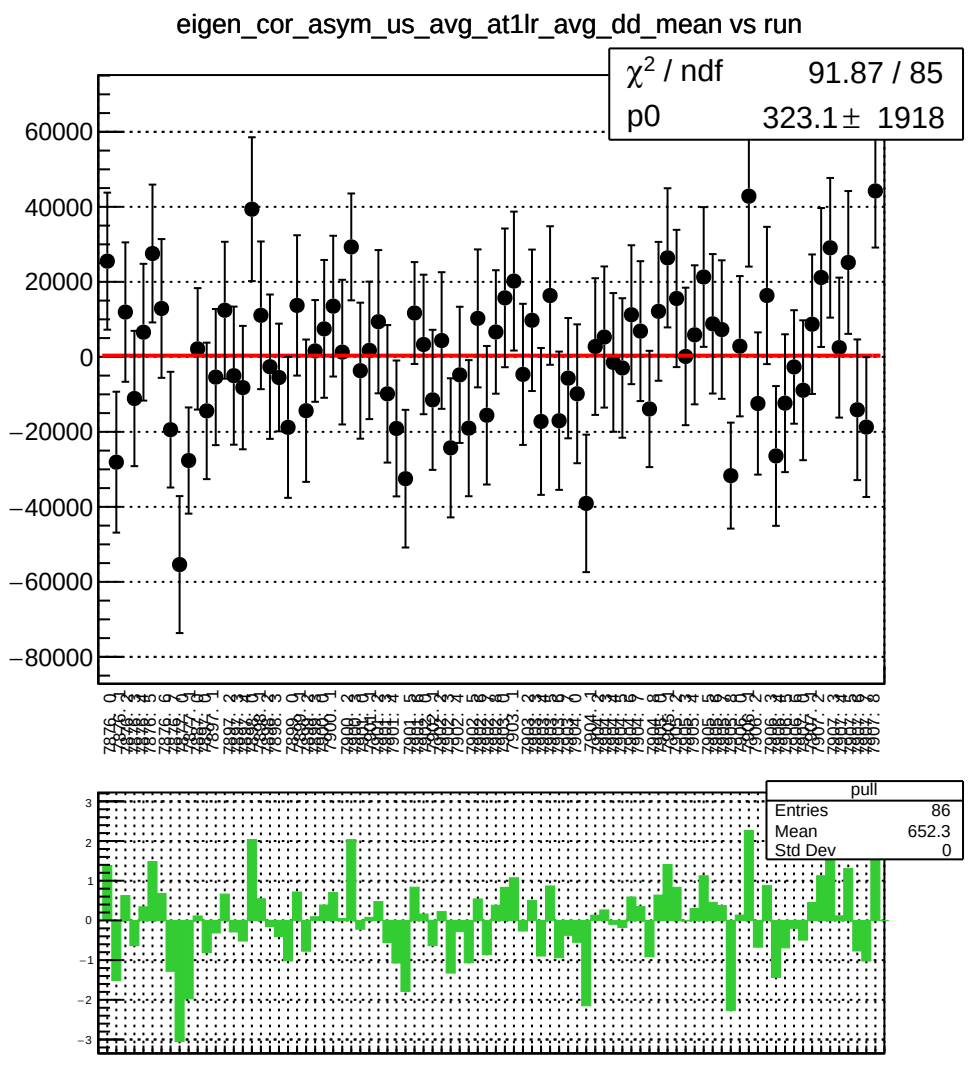

pull1D
Entries 86
Mean 0.006374
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

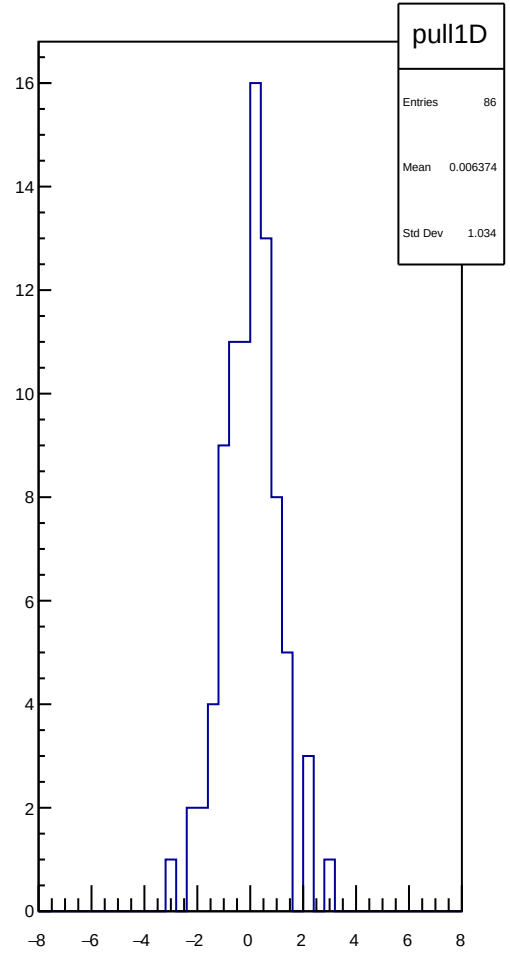

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 476.2 / 85
p0 1762 ± 1.356
1900
1850
1800
1750
1700

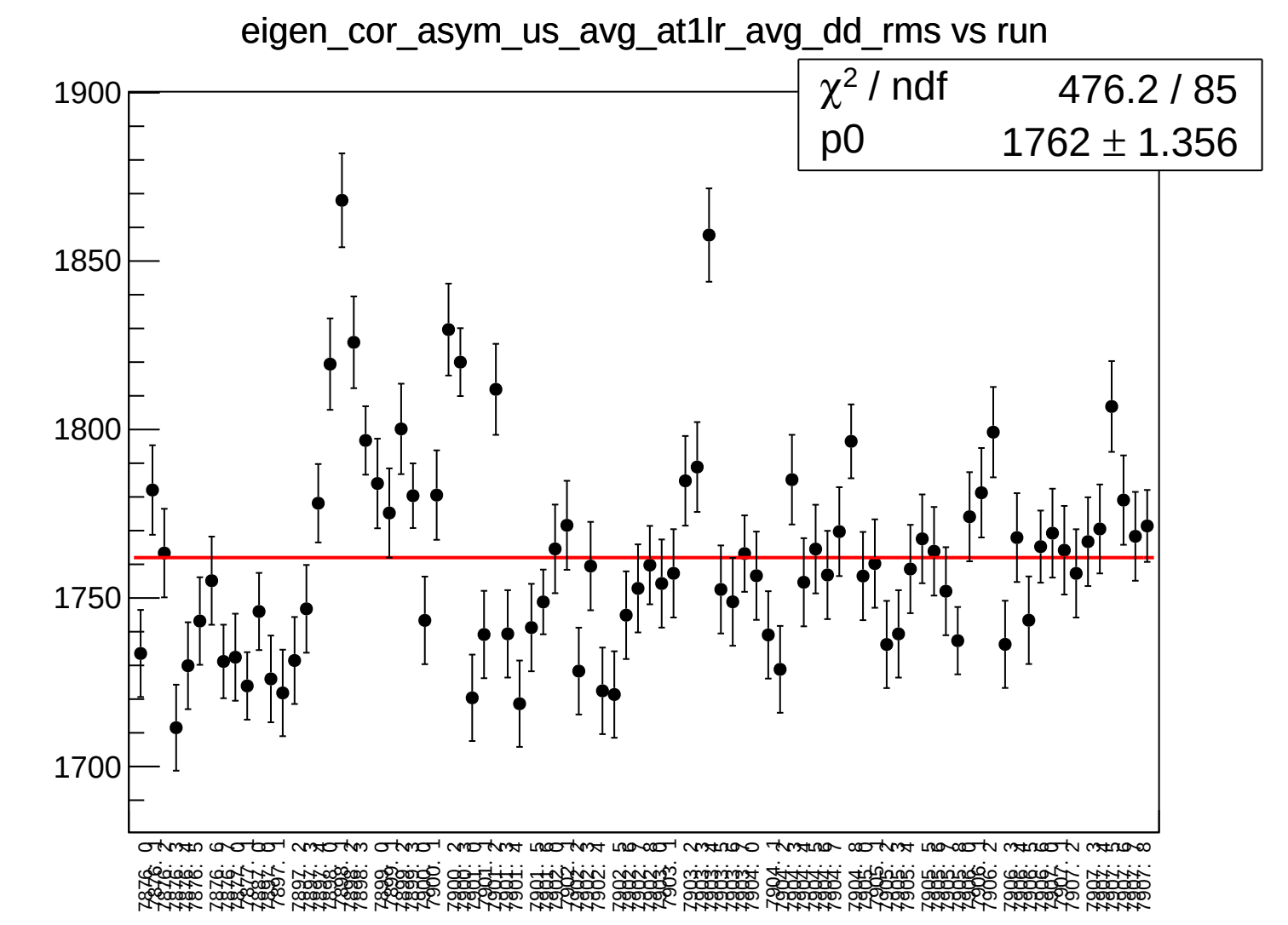

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 69.69 / 85
p0 1670 ± 757.4
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 45.29
Std Dev 30.71
1
0
−1
−2
−3

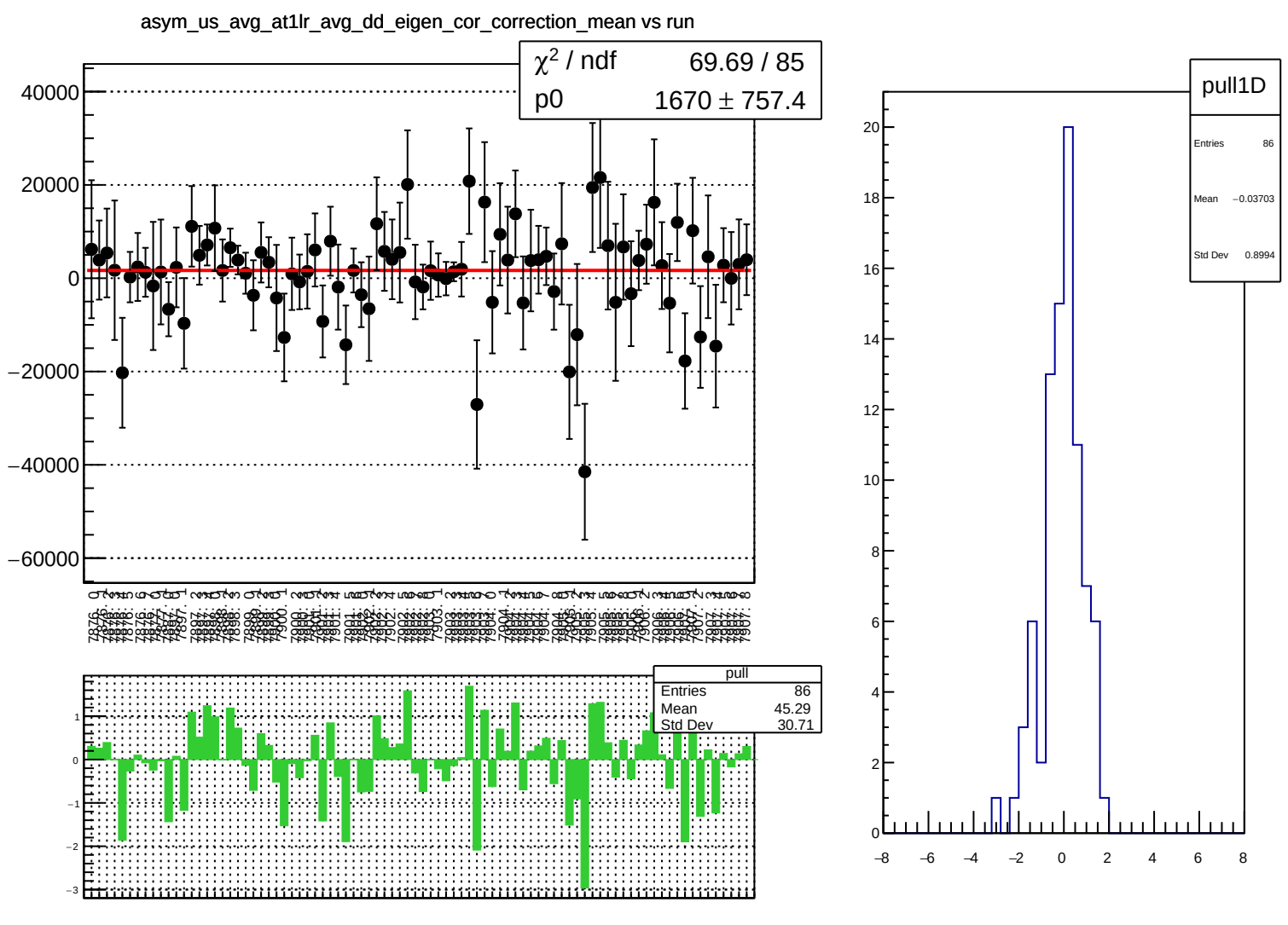

pull1D
Entries 86
Mean −0.03703
Std Dev 0.8994
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

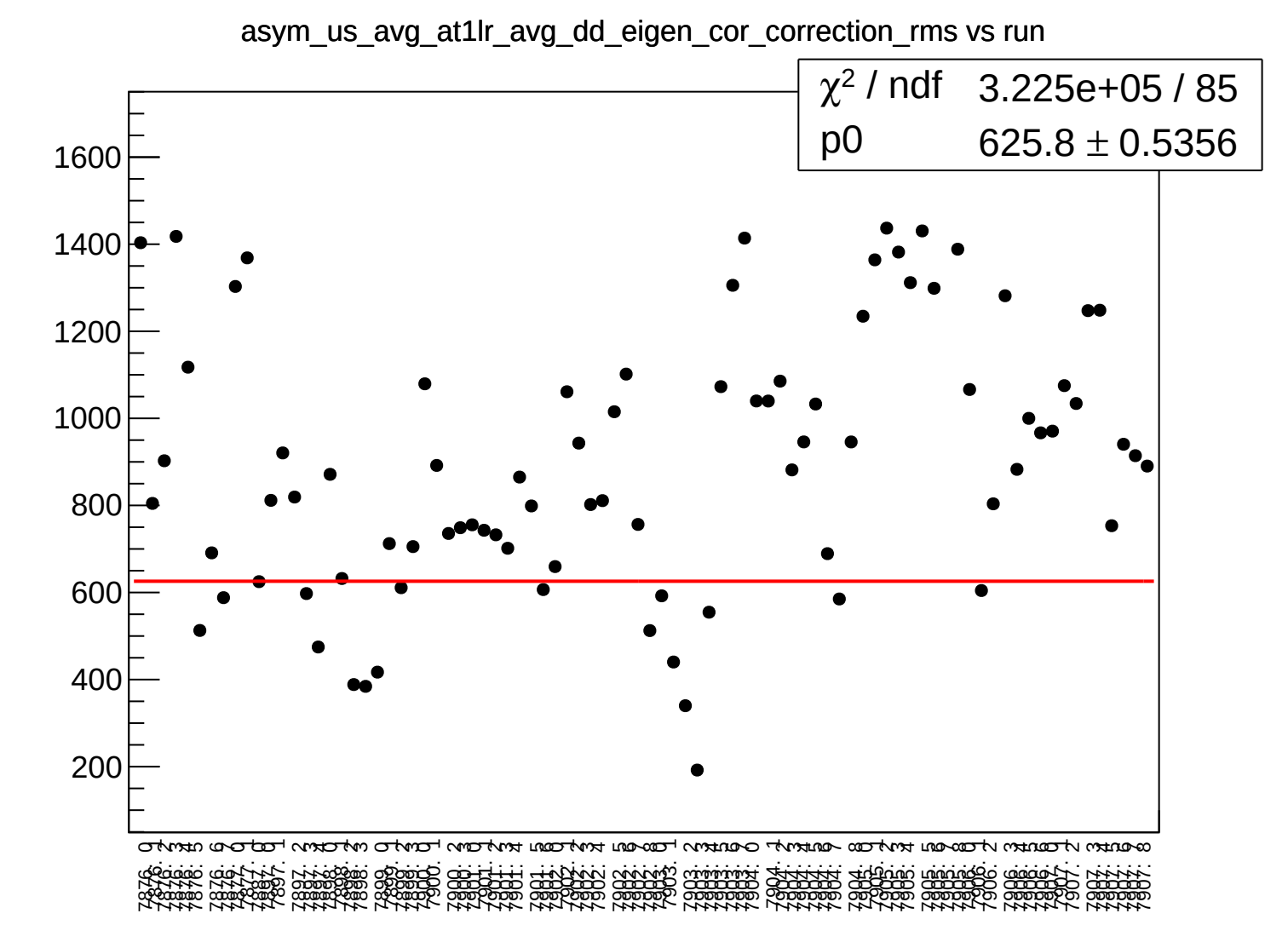

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 3.225e+05 / 85
p0 625.8 ± 0.5356
1600
1400
1200
1000
800
600
400
200

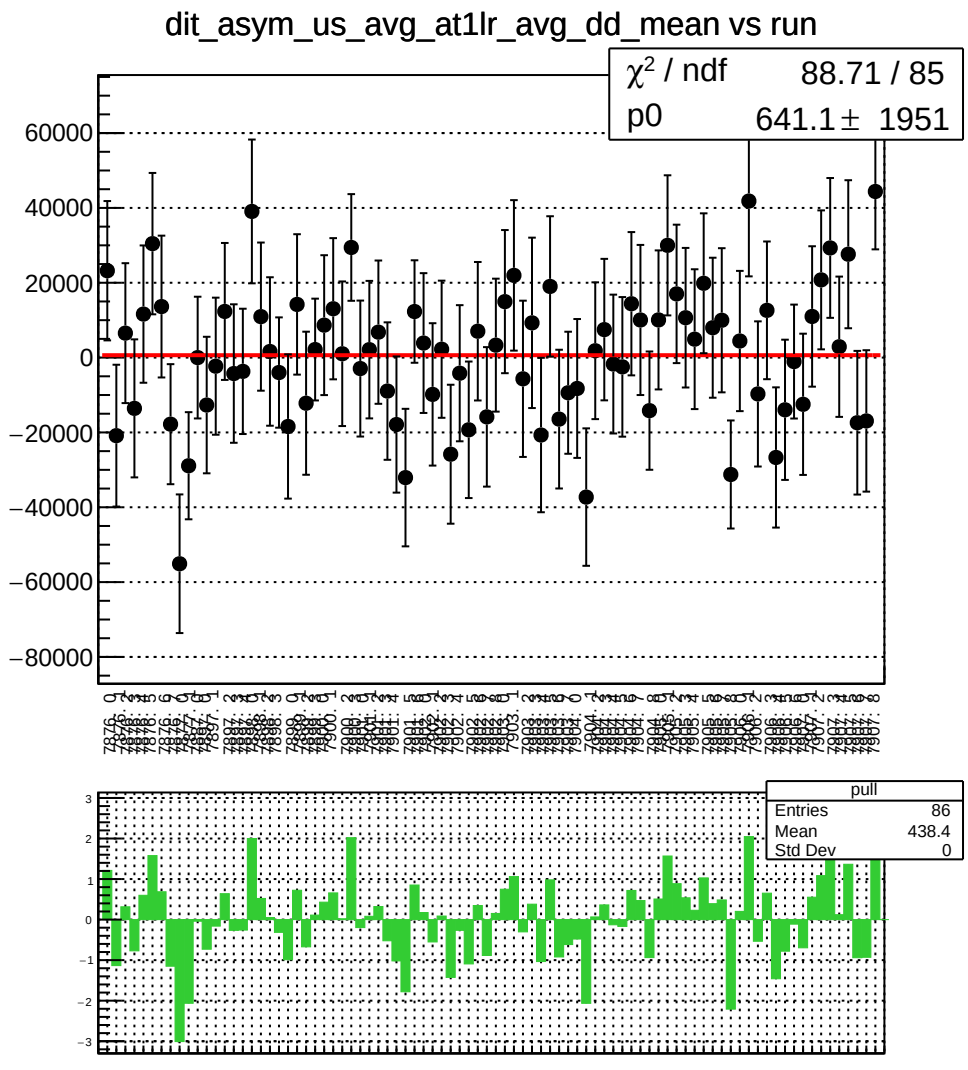

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 91.87 / 85
p0 323.1 ± 1918
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 652.3
Std Dev 0
3
2
1
0
−1
−2
−3

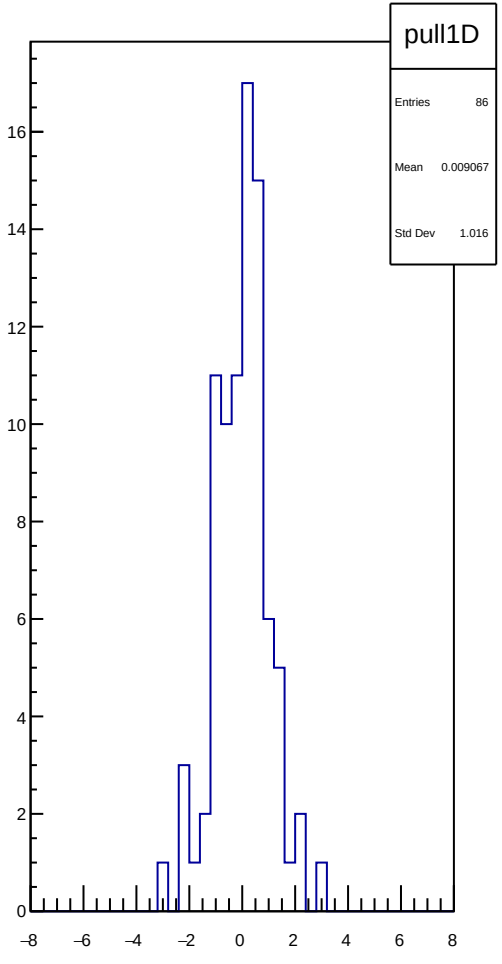

pull1D
Entries 86
Mean 0.006374
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

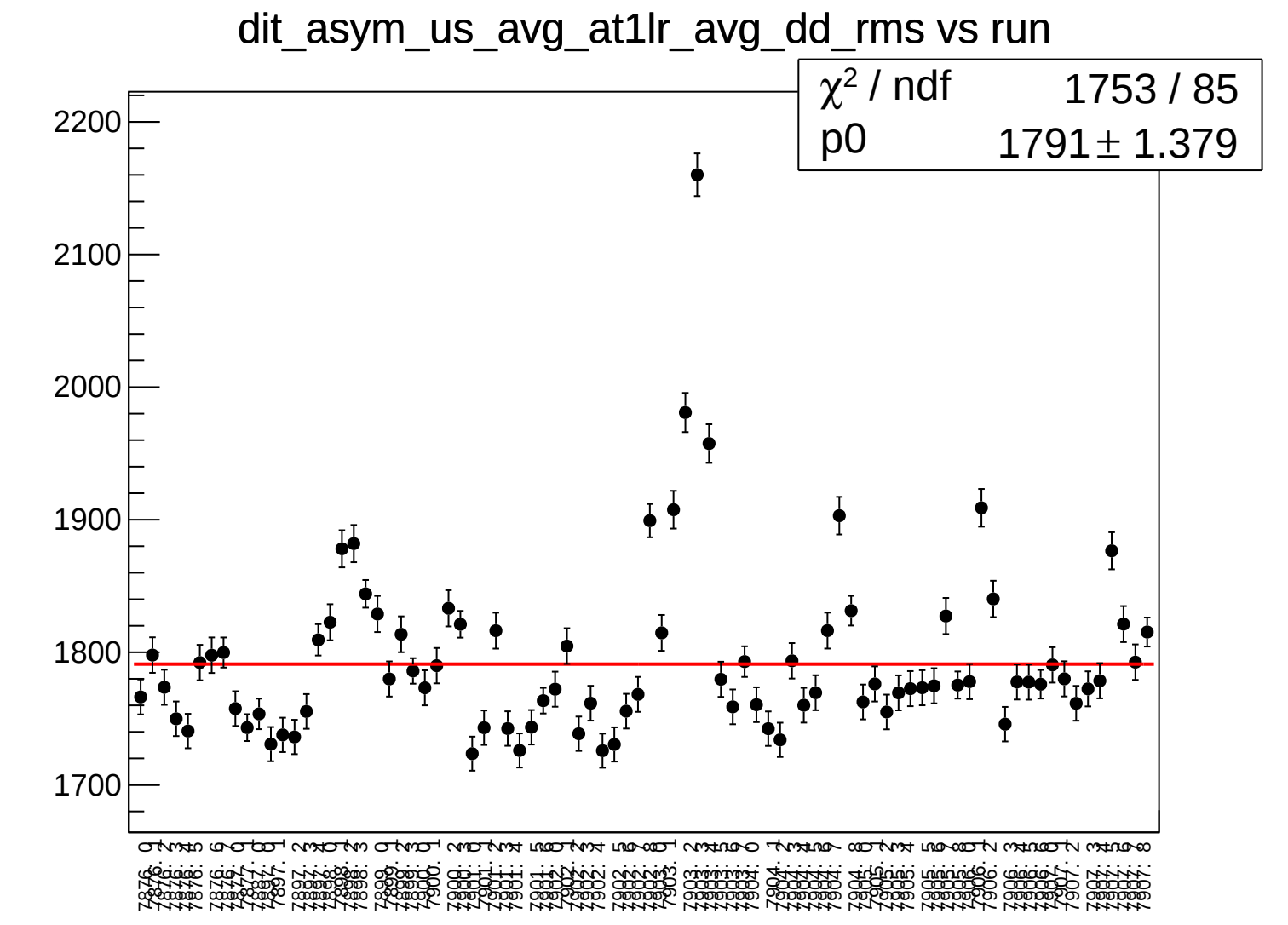

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 476.2 / 85
p0 1762 ± 1.356
1900
1850
1800
1750
1700

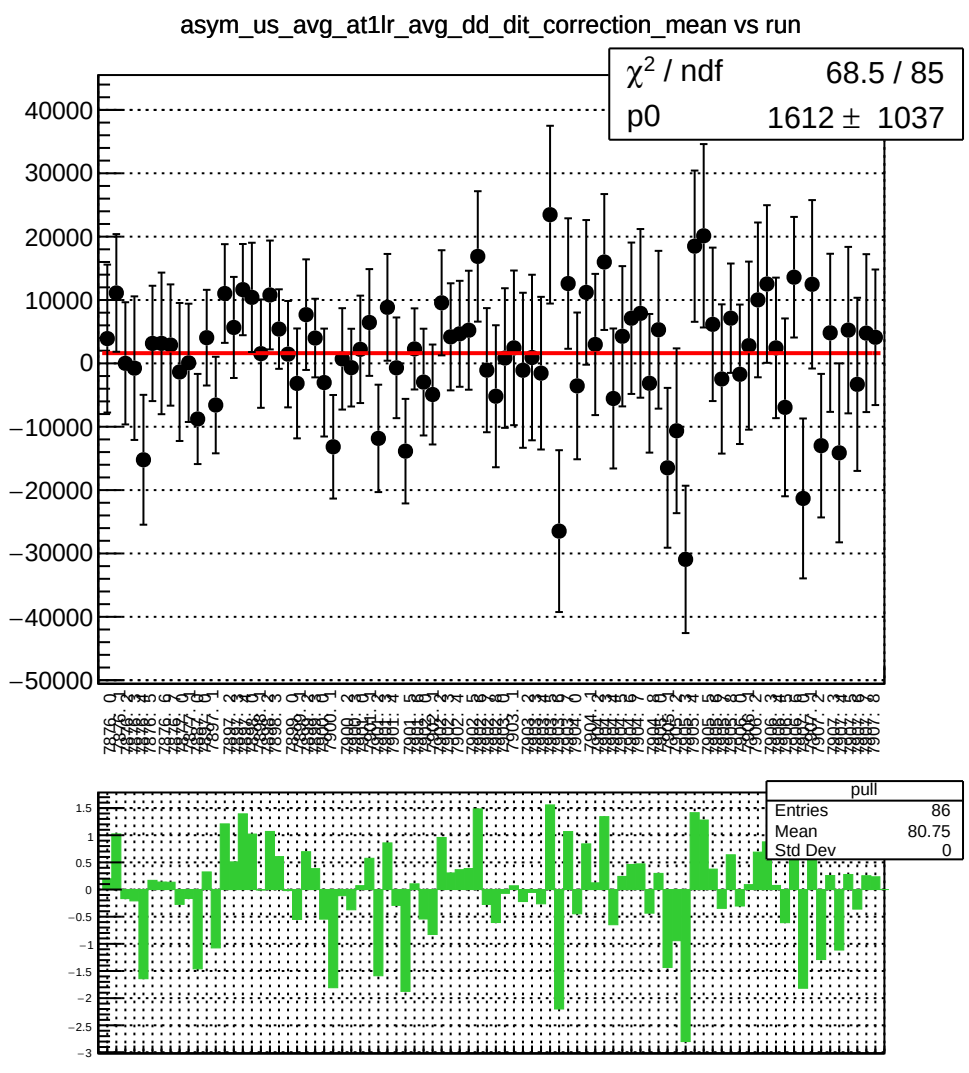

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.69 / 85
p0 1670 ± 757.4
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 45.29
Std Dev 30.71
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.03703
Std Dev 0.8994
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

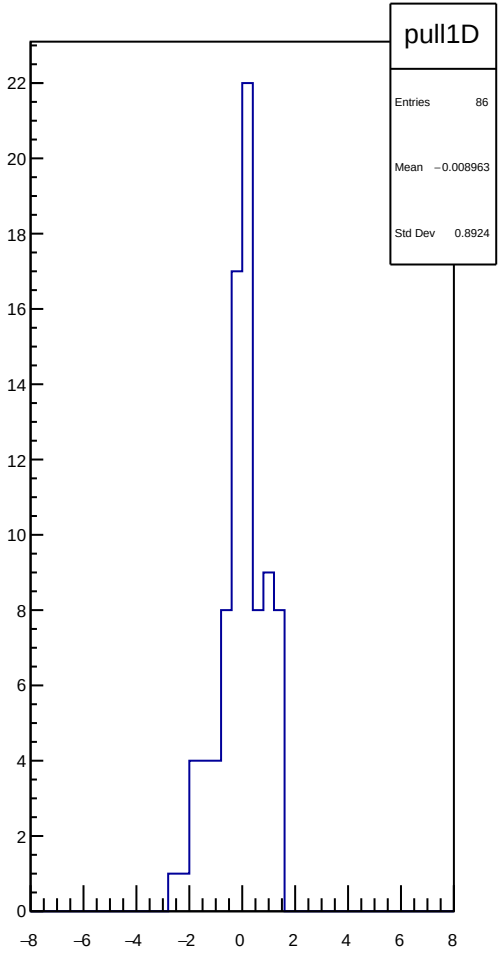

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 3.225e+05 / 85
p0 625.8 ± 0.5356
1600
1400
1200
1000
800
600
400
200

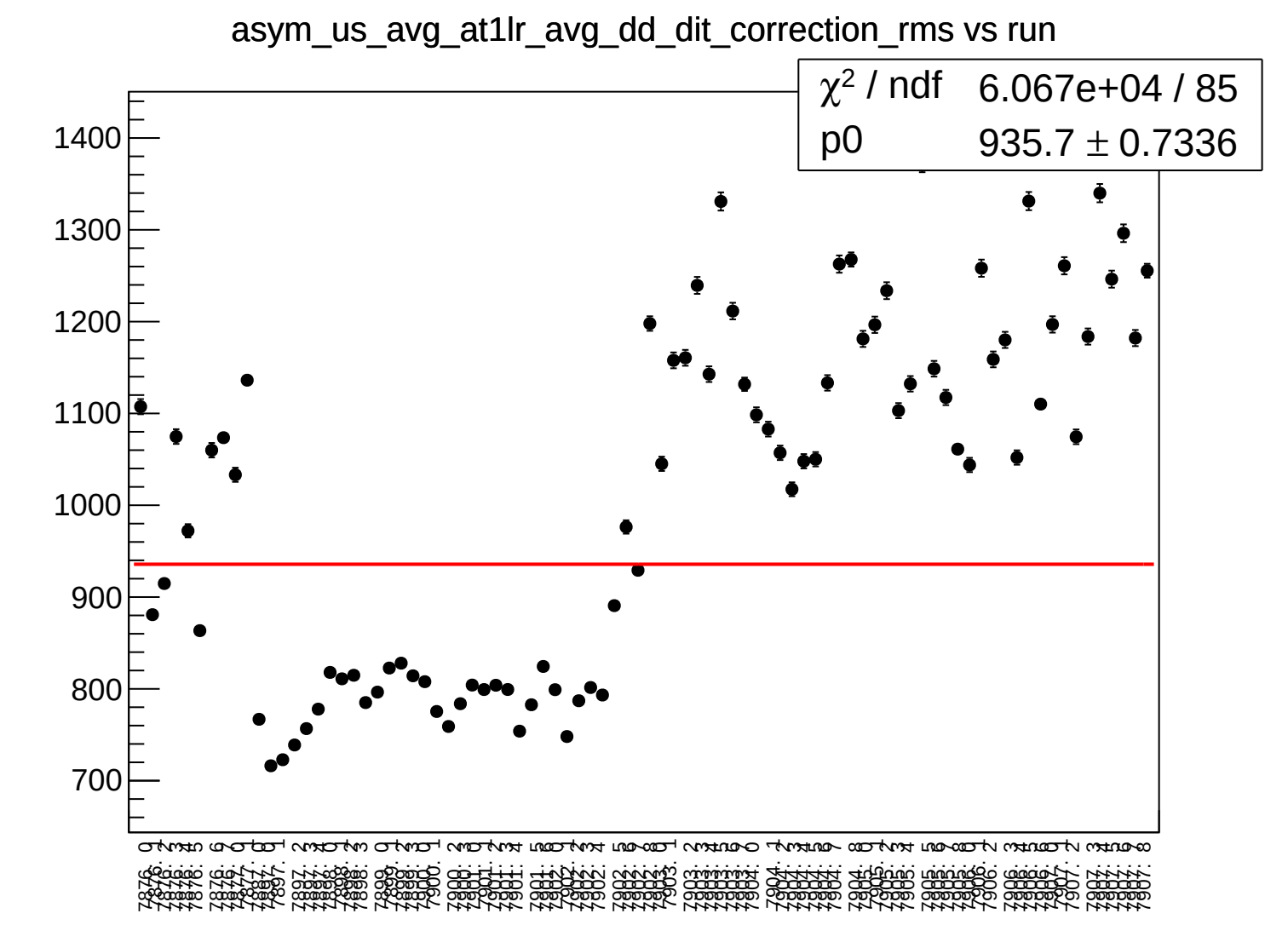

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.71 / 85
p0 641.1 ± 1951
pull
Entries 86
Mean 438.4
Std Dev 0

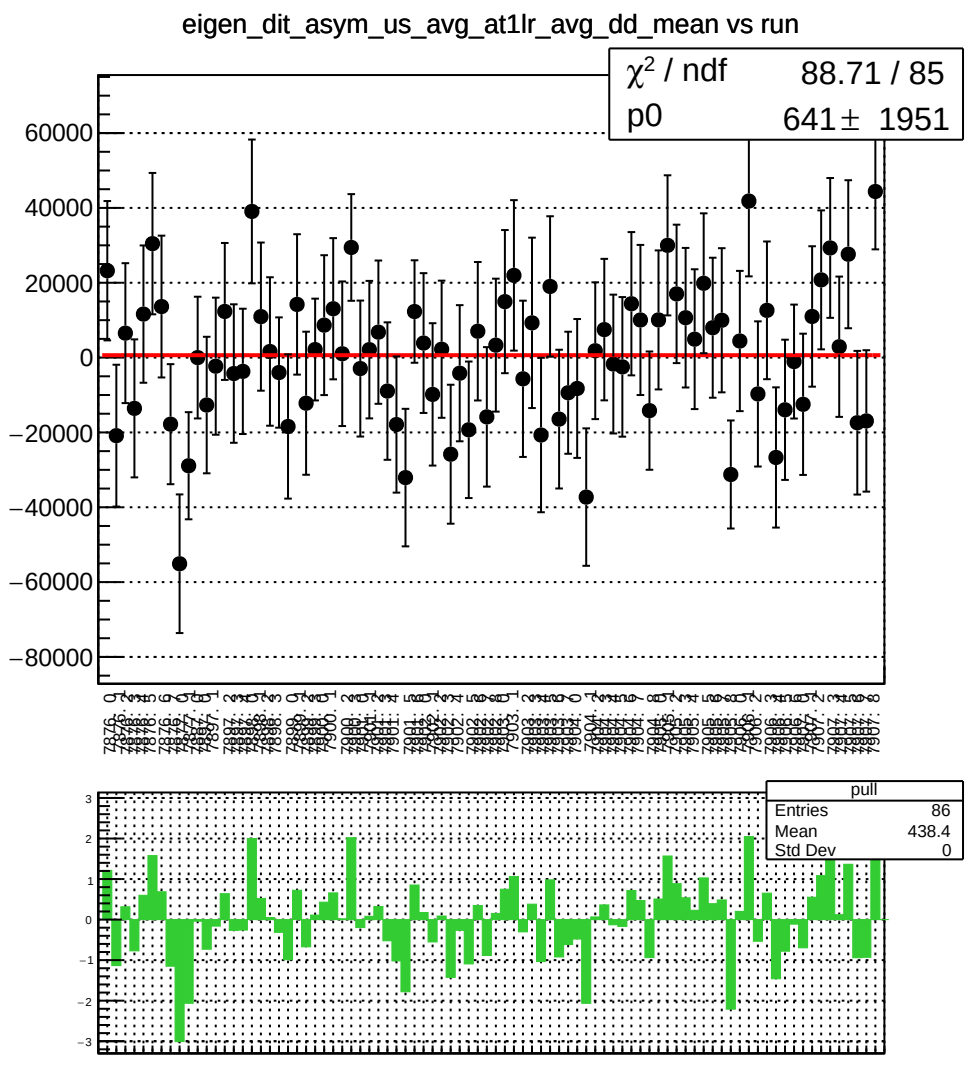

pull1D
Entries 86
Mean 0.009067
Std Dev 1.016

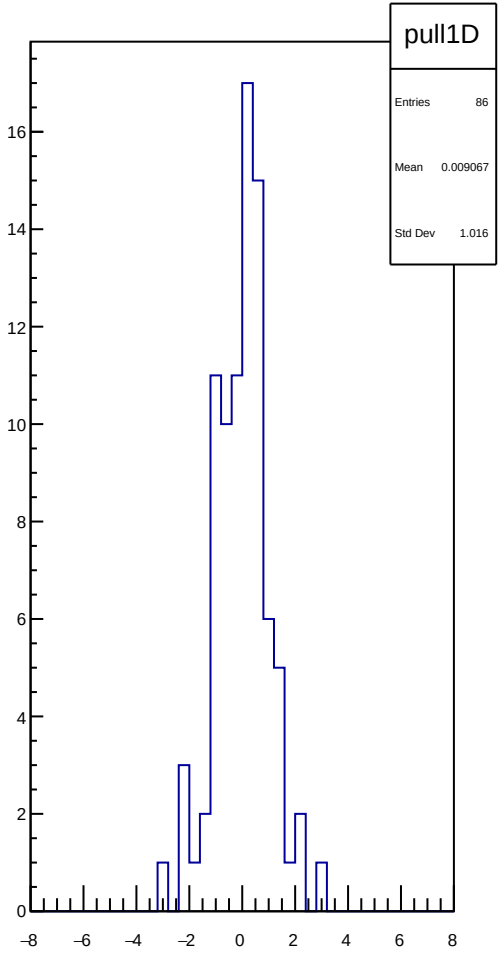

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1753 / 85
p0 1791 ± 1.379
2200
2100
2000
1900
1800
1700

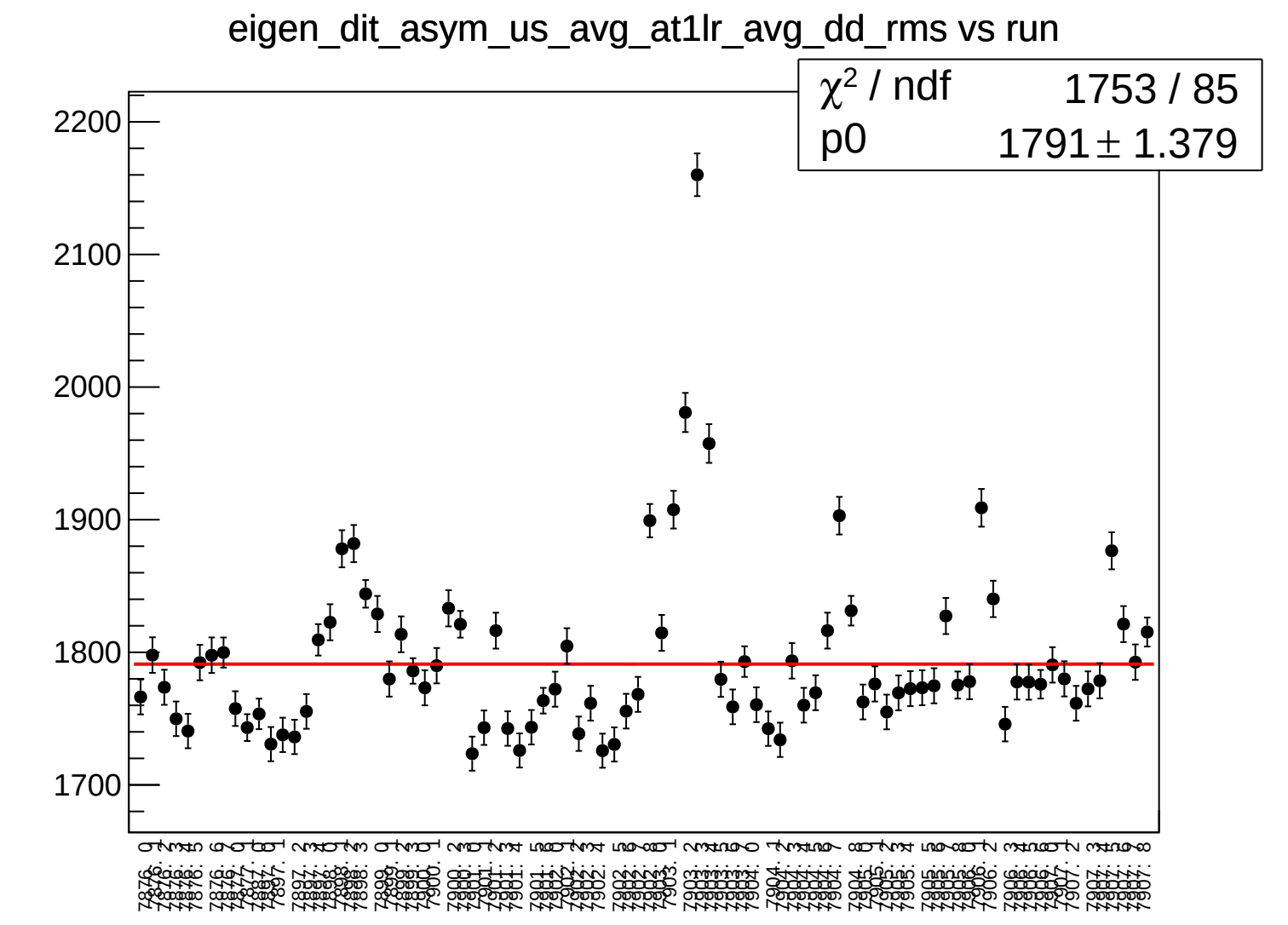

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 68.5 / 85
p0 1612 ± 1037
pull
Entries 86
Mean 80.75
Std Dev 0

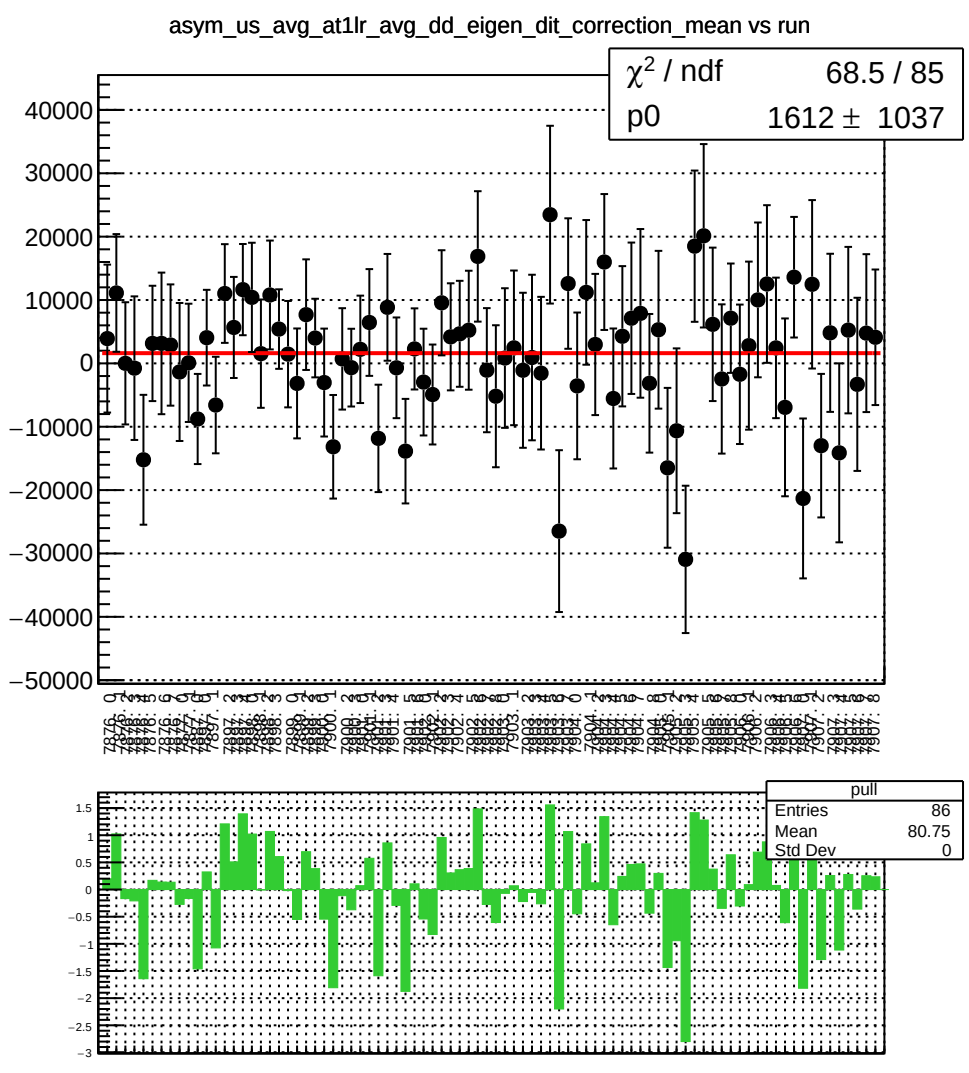

pull1D
Entries 86
Mean −0.008963
Std Dev 0.8924

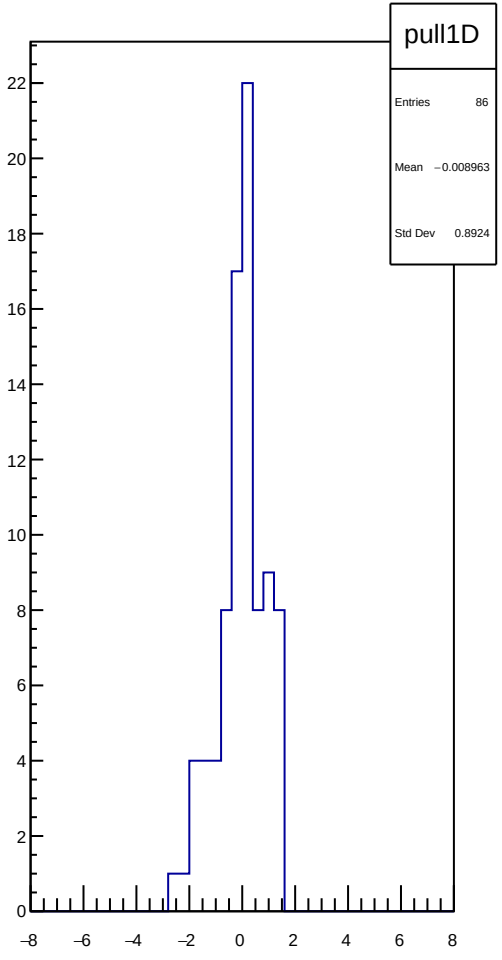

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6.067e+04 / 85
p0 935.7 ± 0.7336
1400
1300
1200
1100
1000
900
800
700

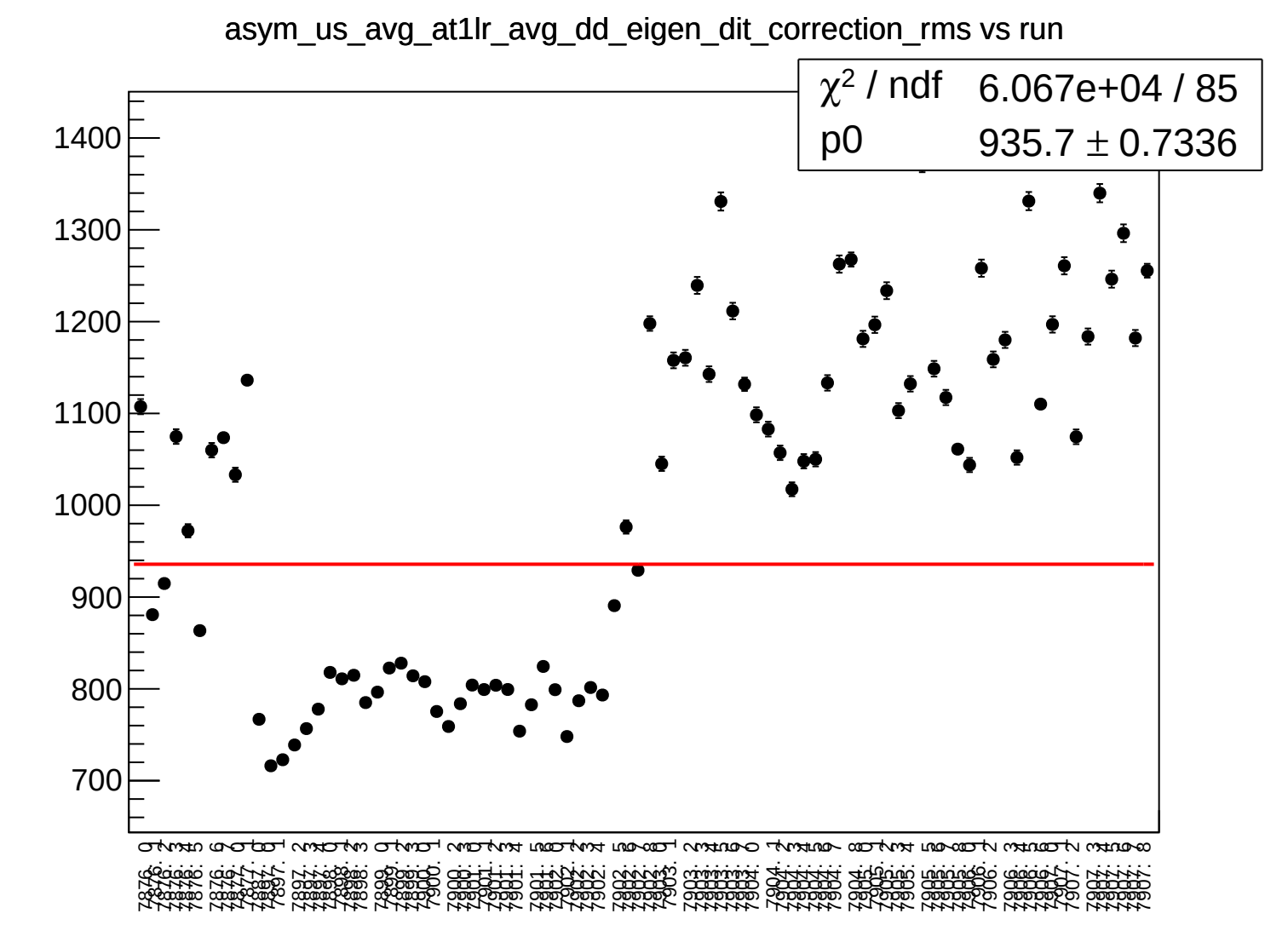

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.71 / 85
p0 641 ± 1951
pull
Entries 86
Mean 438.4
Std Dev 0

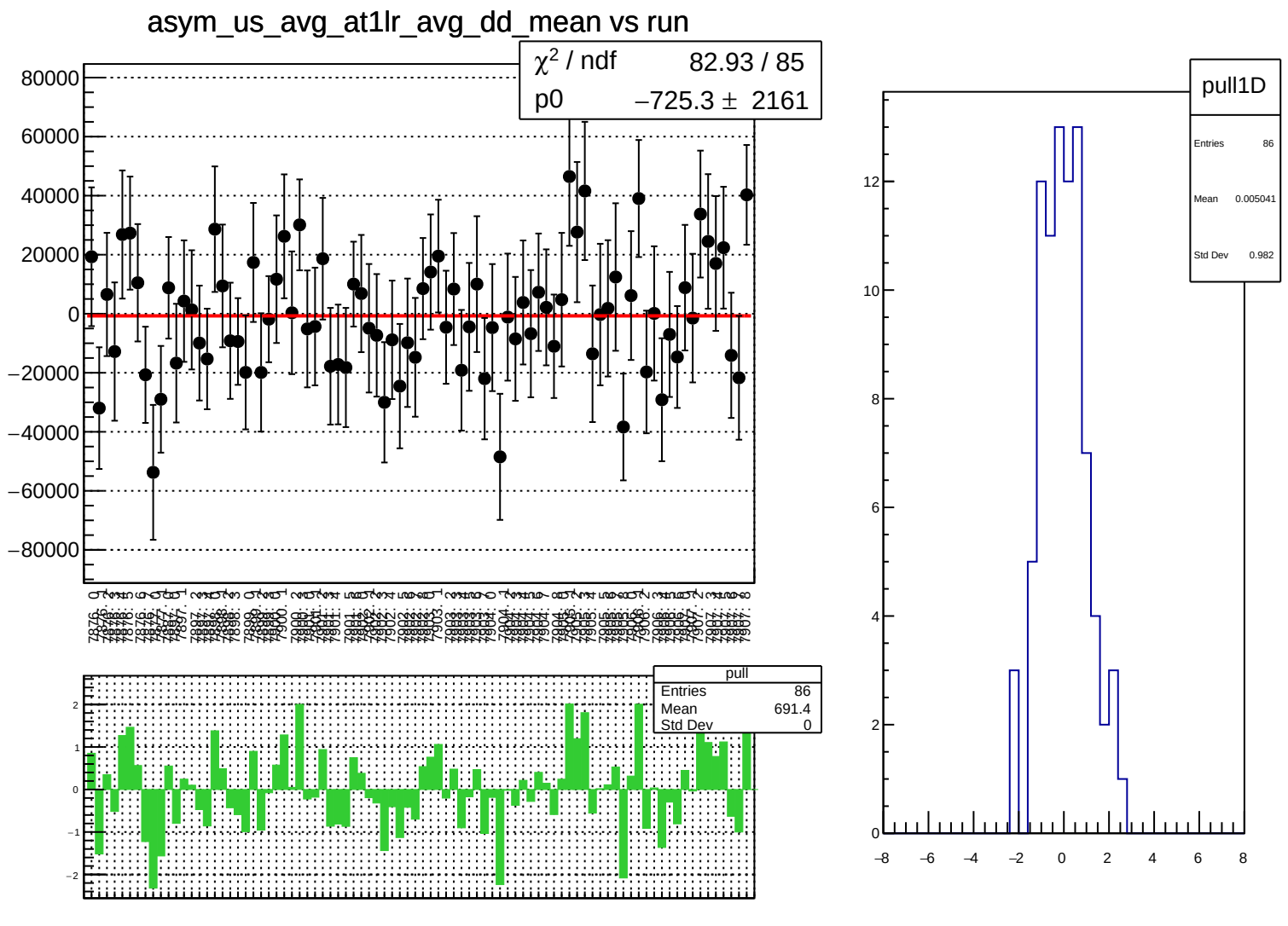

pull1D
Entries 86
Mean 0.009067
Std Dev 1.016

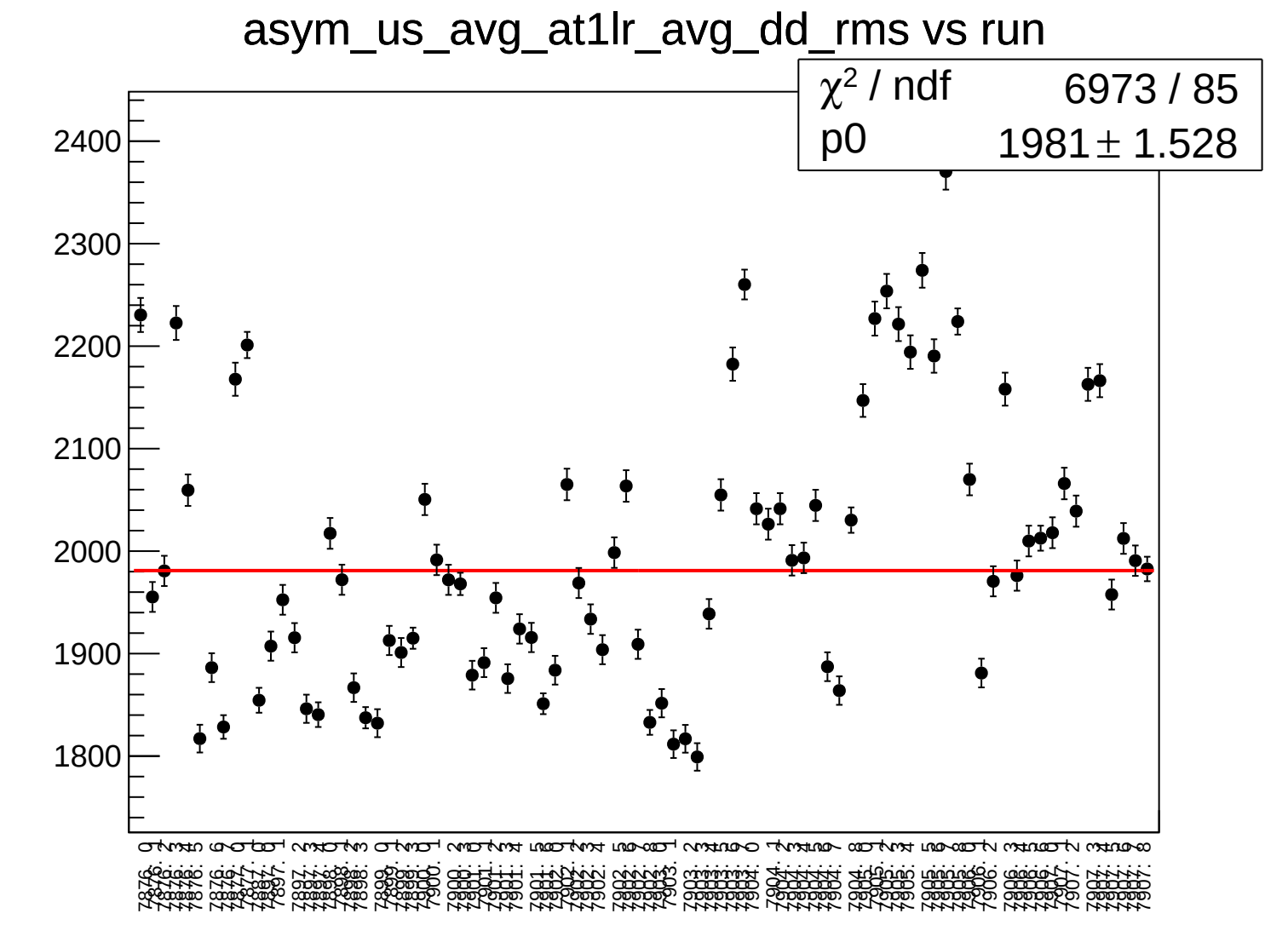

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1753 / 85
p0 1791 ± 1.379
2200
2100
2000
1900
1800
1700

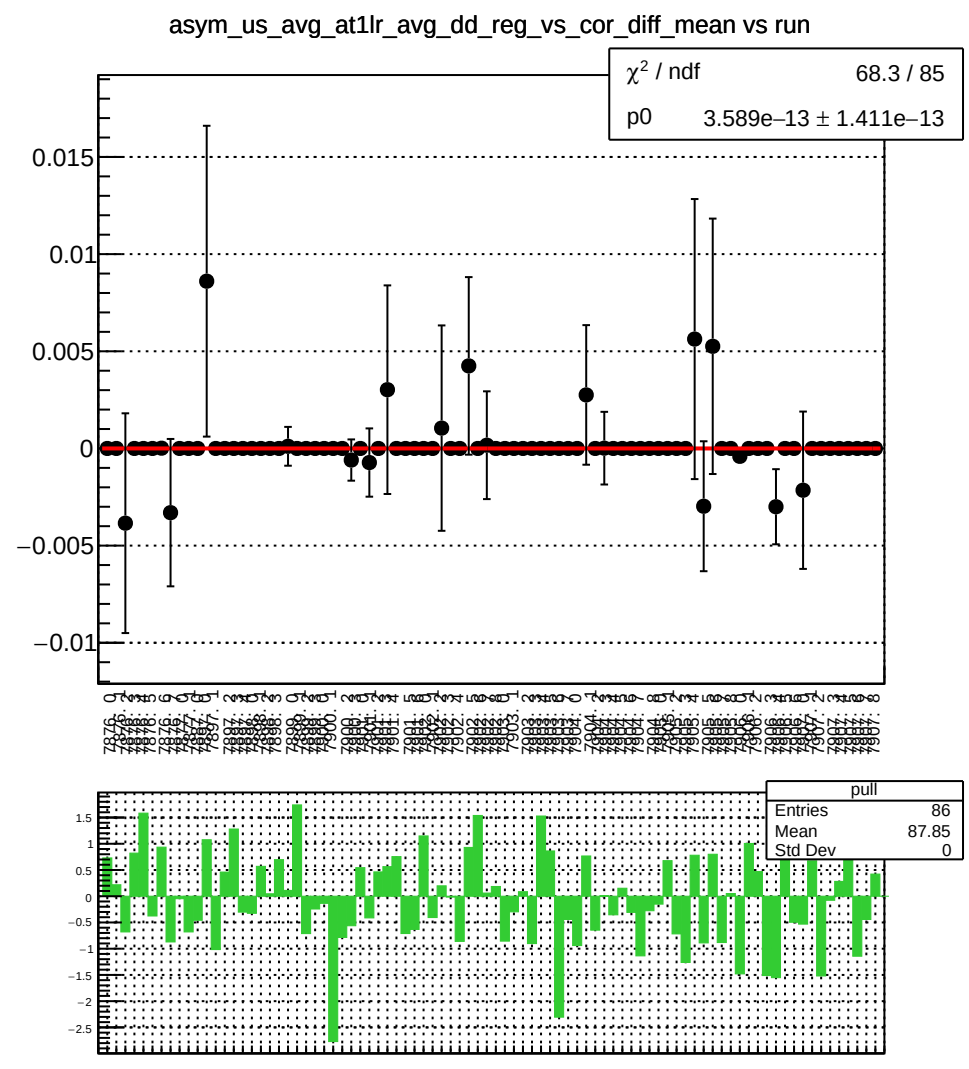

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.5 / 85
p0 1612 ± 1037
pull
Entries 86
Mean 80.75
Std Dev 0

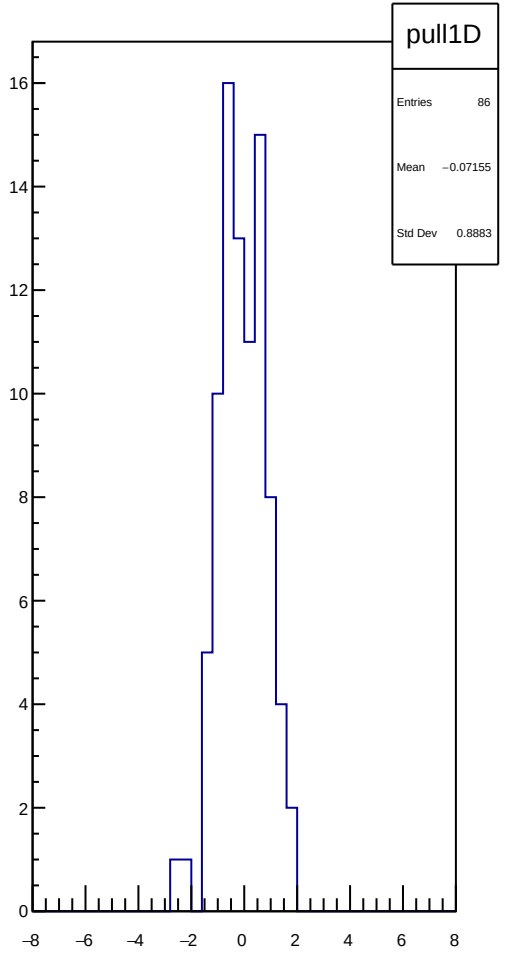

pull1D
Entries 86
Mean −0.008963
Std Dev 0.8924

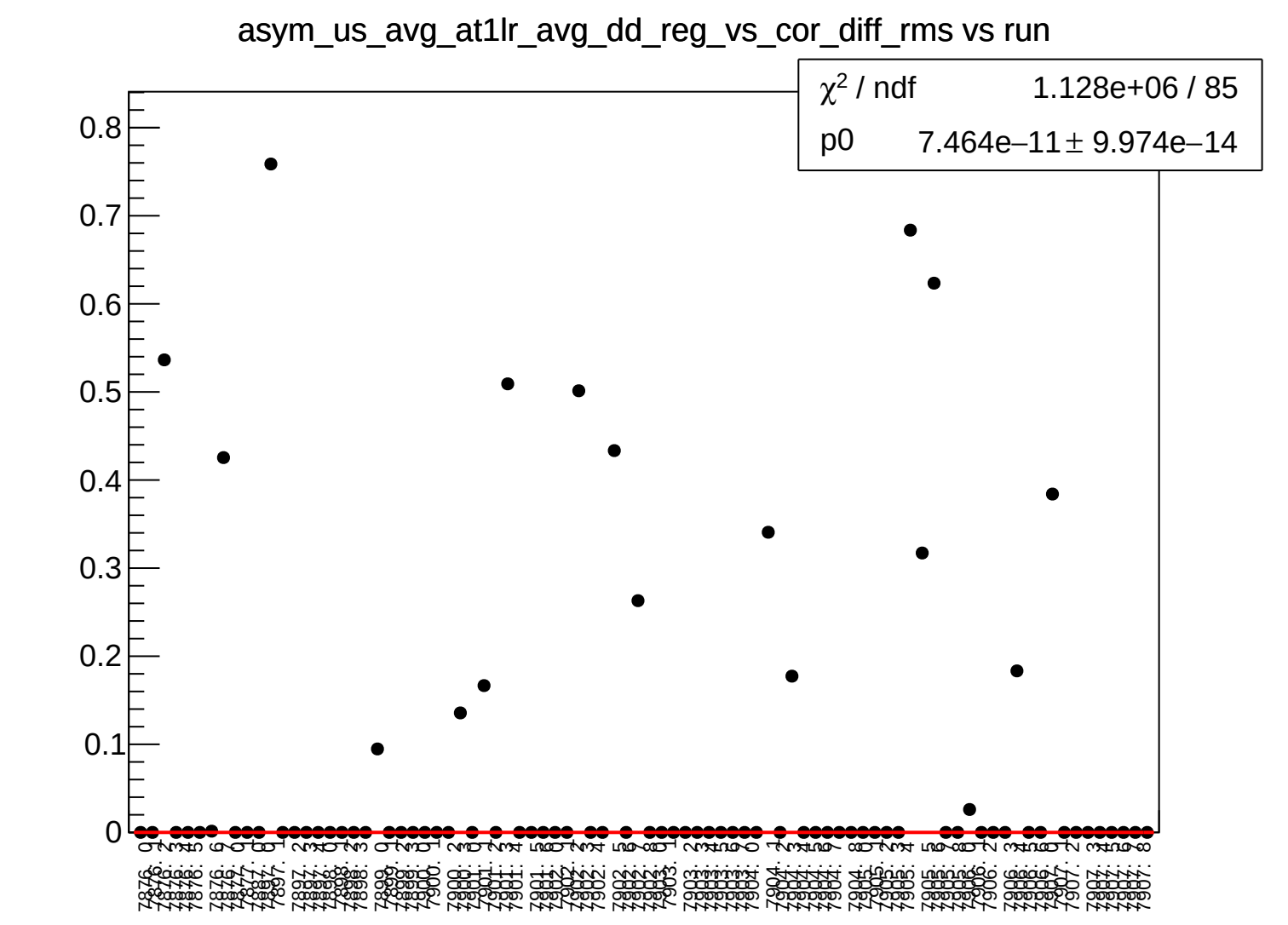

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.067e+04 / 85
p0 935.7 ± 0.7336
1400
1300
1200
1100
1000
900
800
700

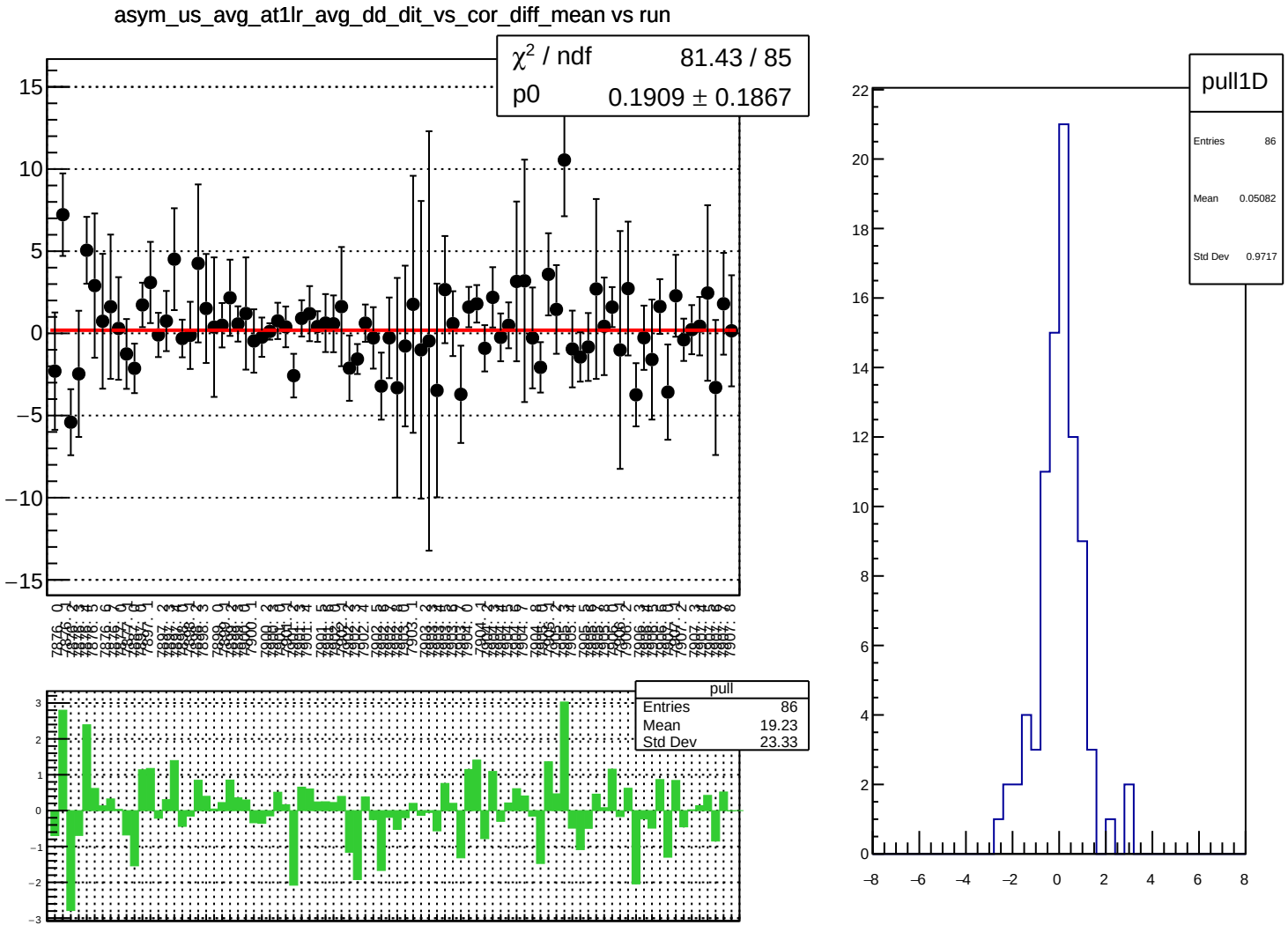

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 82.93 / 85
p0 −725.3 ± 2161
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 691.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.005041
Std Dev 0.982
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

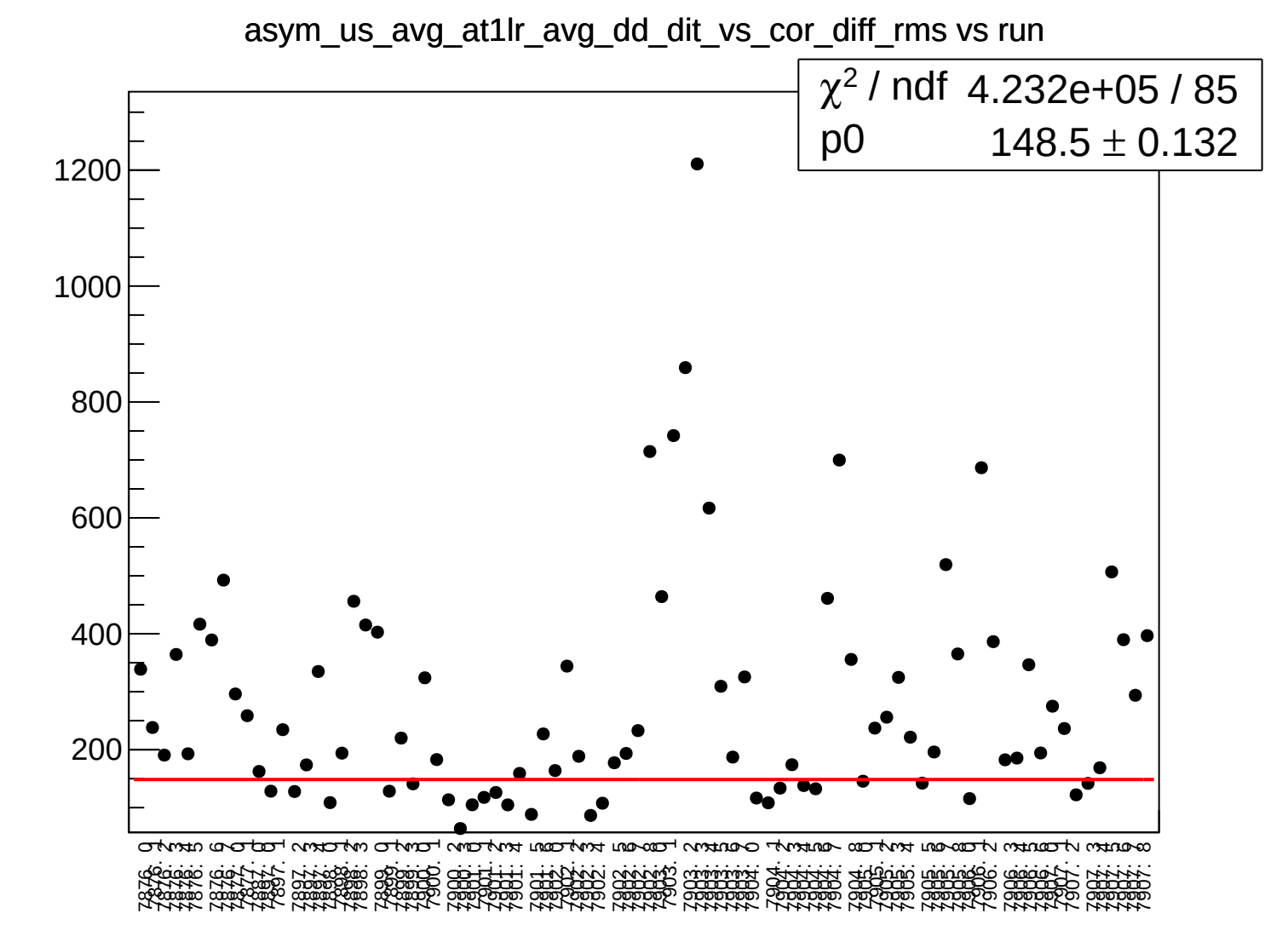

asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 6973 / 85
p0 1981 ± 1.528
2400
2300
2200
2100
2000
1900
1800

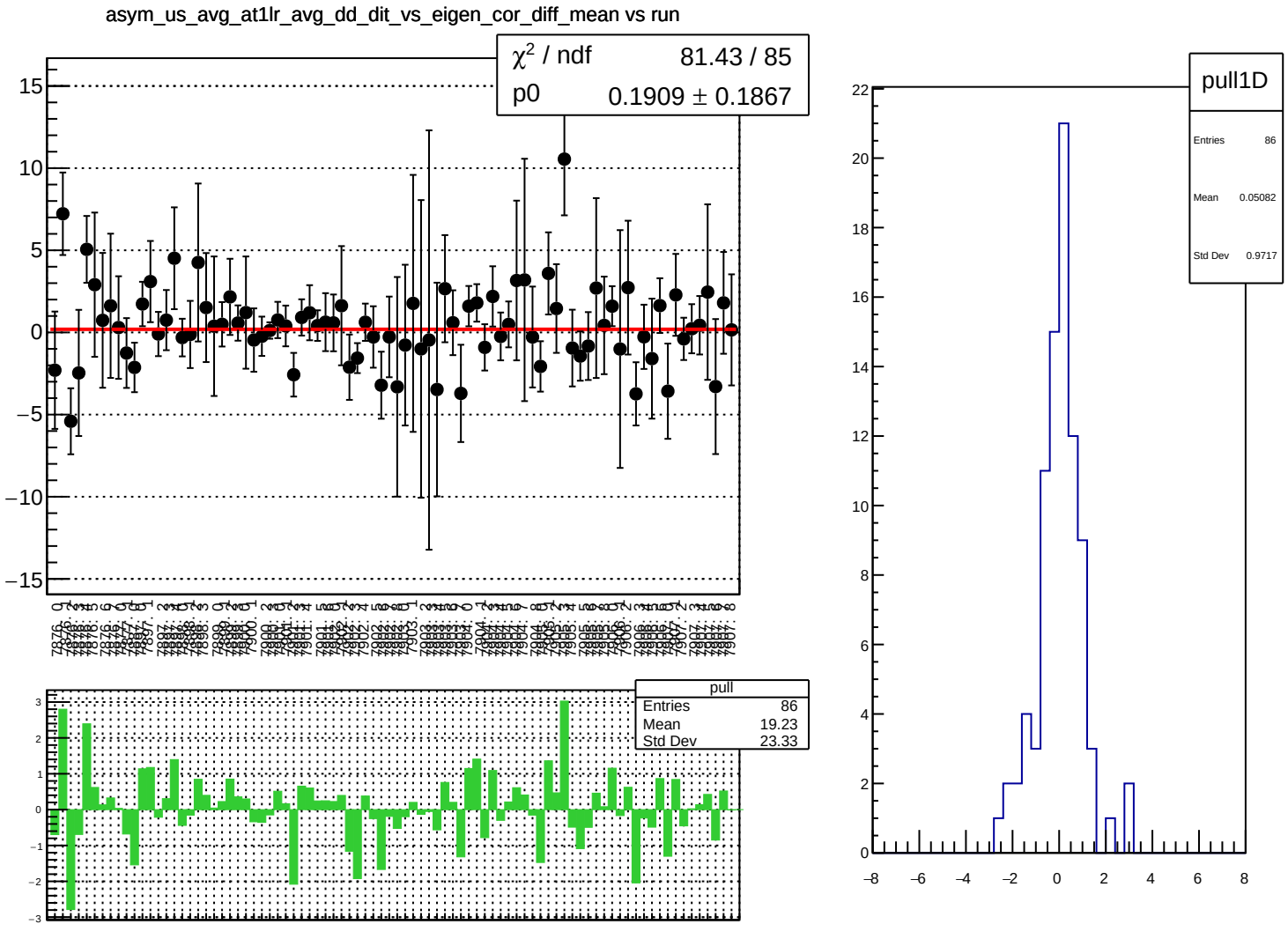

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.3 / 85
p0 3.589e−13 ± 1.411e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean 87.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

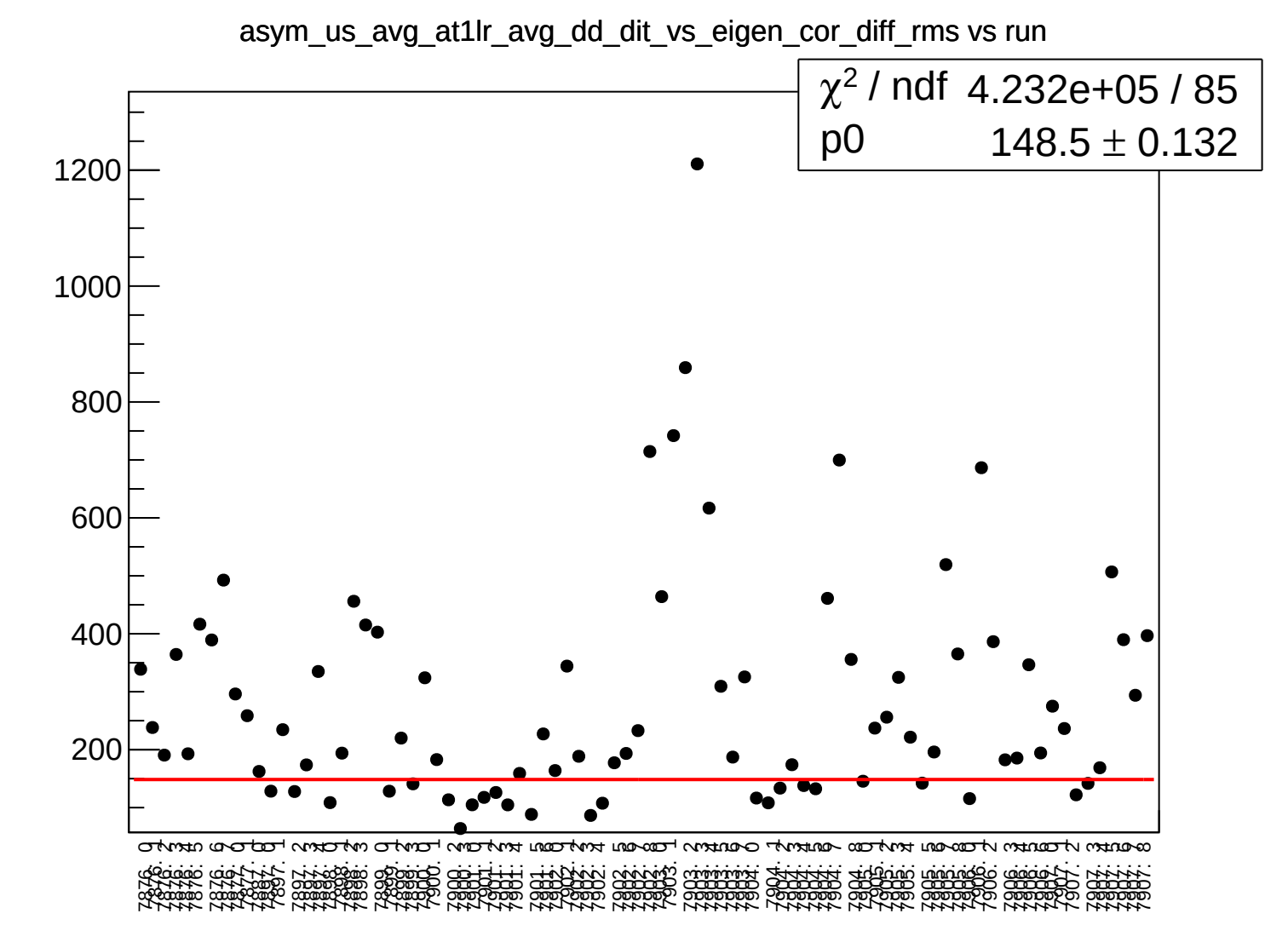

pull1D
Entries 86
Mean −0.07155
Std Dev 0.8883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

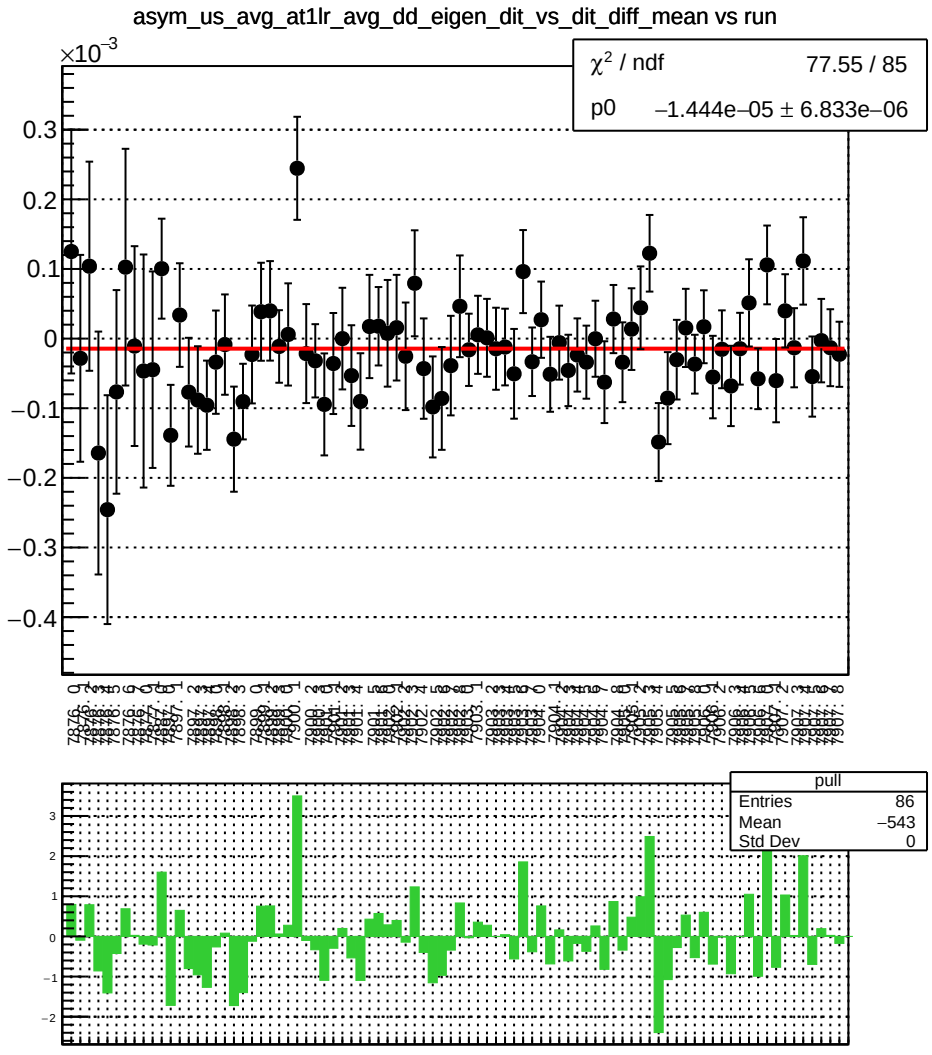

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.128e+06 / 85
p0 7.464e−11 ± 9.974e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

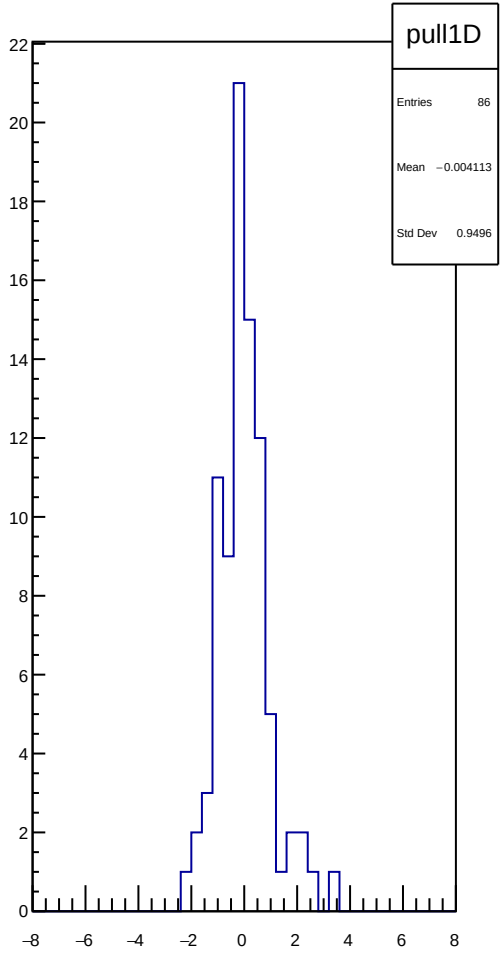

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.43 / 85
p0 0.1909 ± 0.1867
pull
Entries 86
Mean 19.23
Std Dev 23.33
pull1D
Entries 86
Mean 0.05082
Std Dev 0.9717

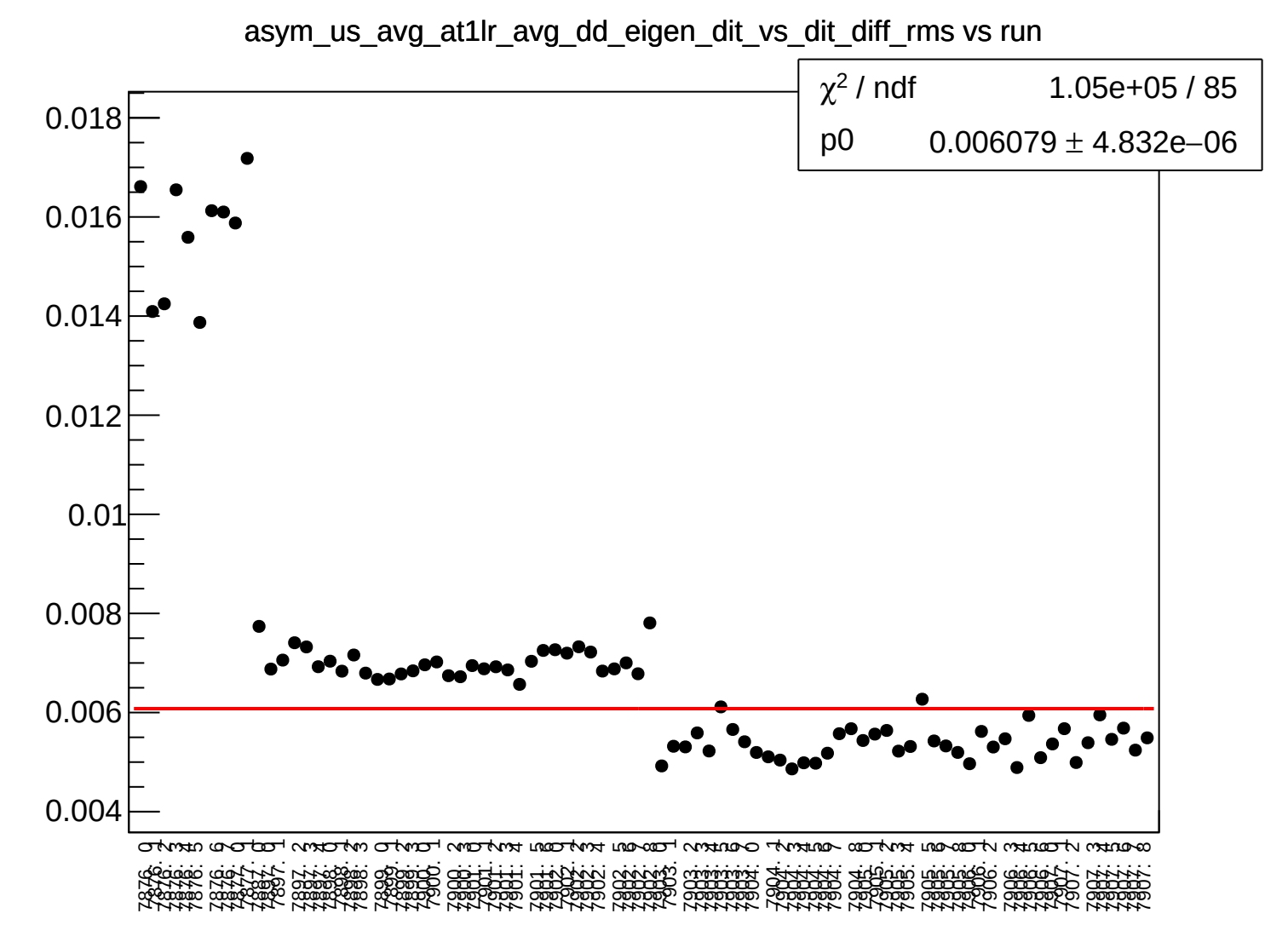

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.232e+05 / 85
p0 148.5 ± 0.132
1200
1000
800
600
400
200

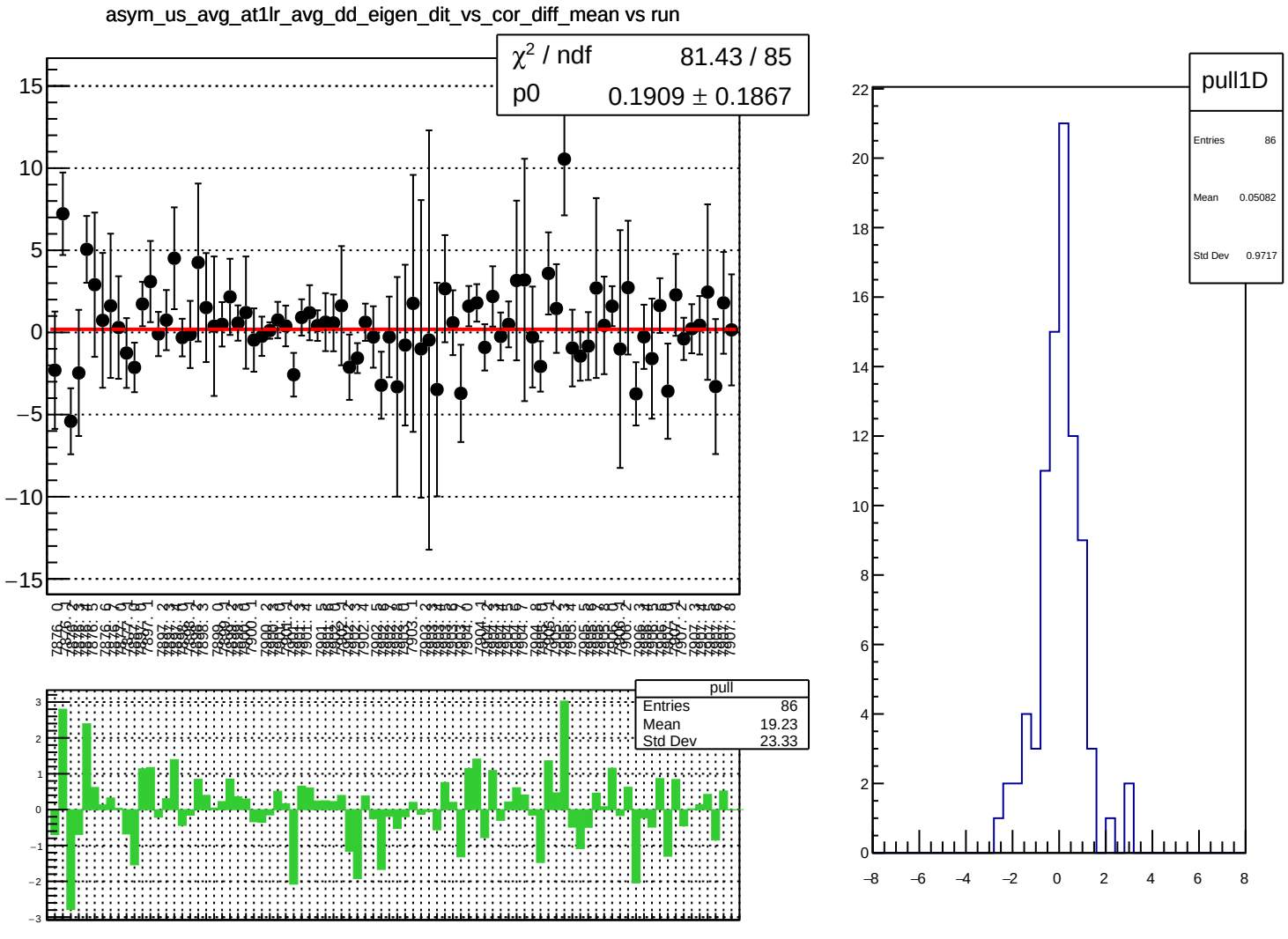

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.43 / 85
p0 0.1909 ± 0.1867
pull
Entries 86
Mean 19.23
Std Dev 23.33
pull1D
Entries 86
Mean 0.05082
Std Dev 0.9717

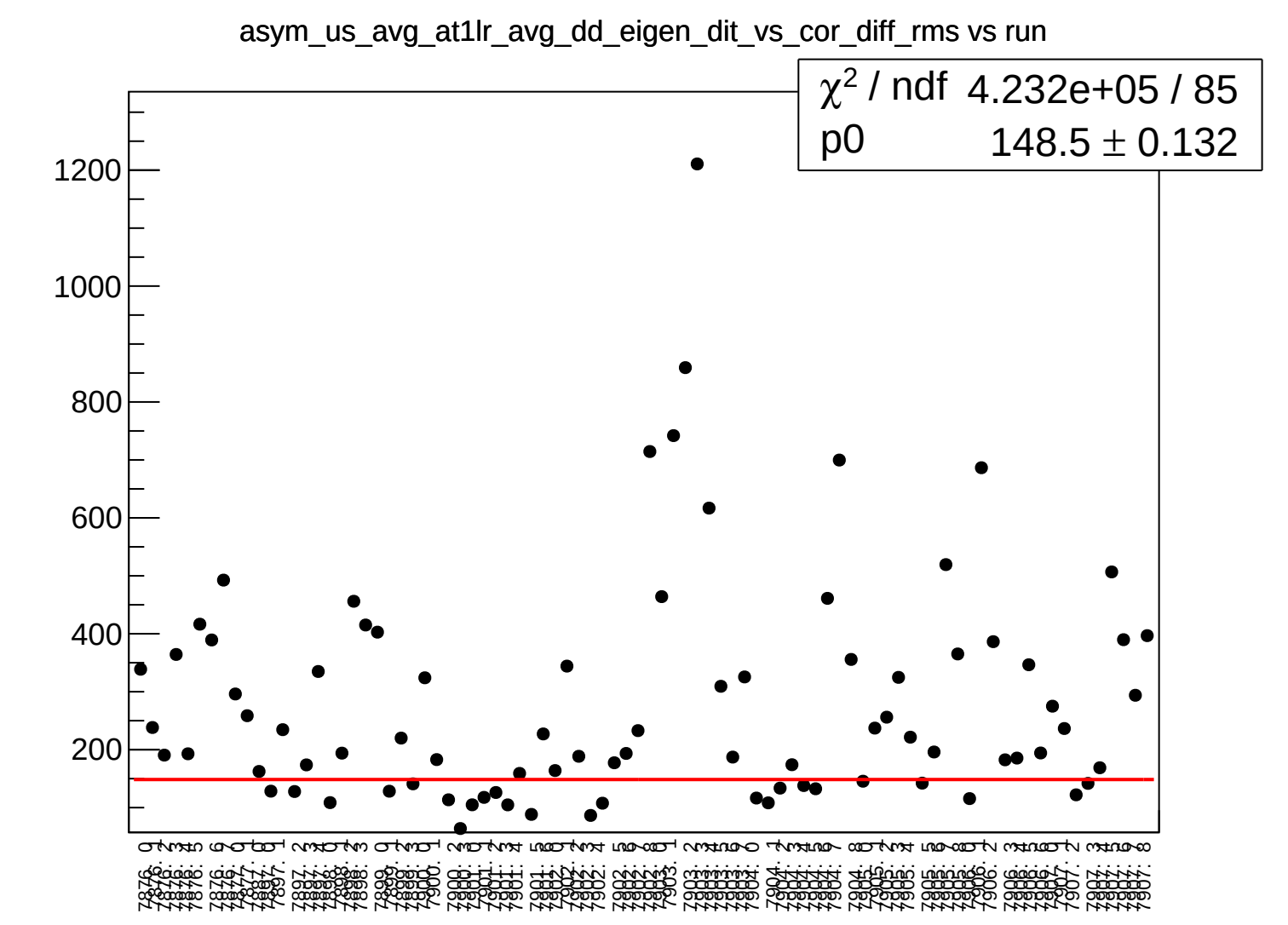

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.232e+05 / 85
p0 148.5 ± 0.132
1200
1000
800
600
400
200

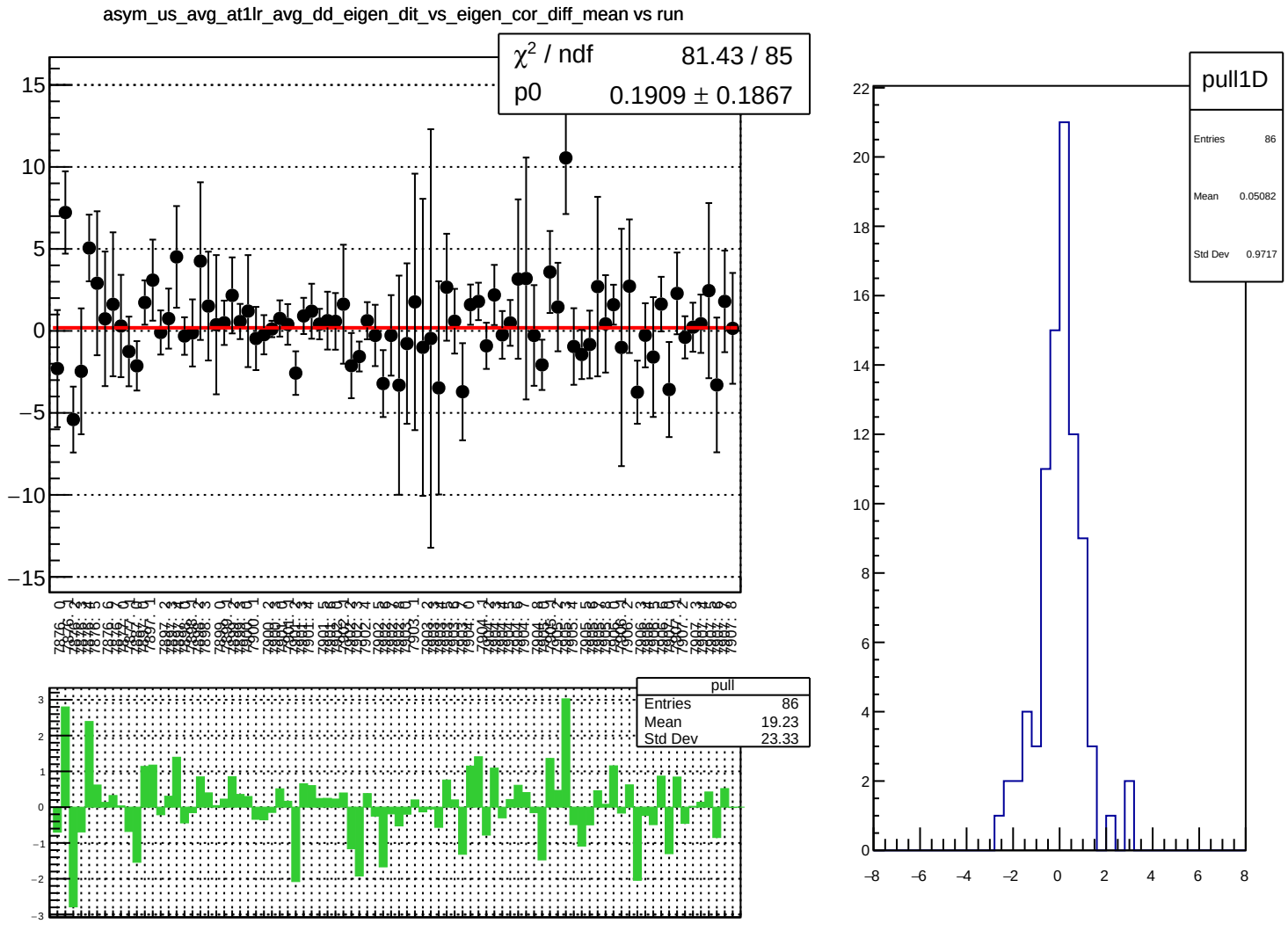

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.55 / 85
p0 −1.444e−05 ± 6.833e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 86
Mean −543
Std Dev 0
3
2
1
0
−1
−2

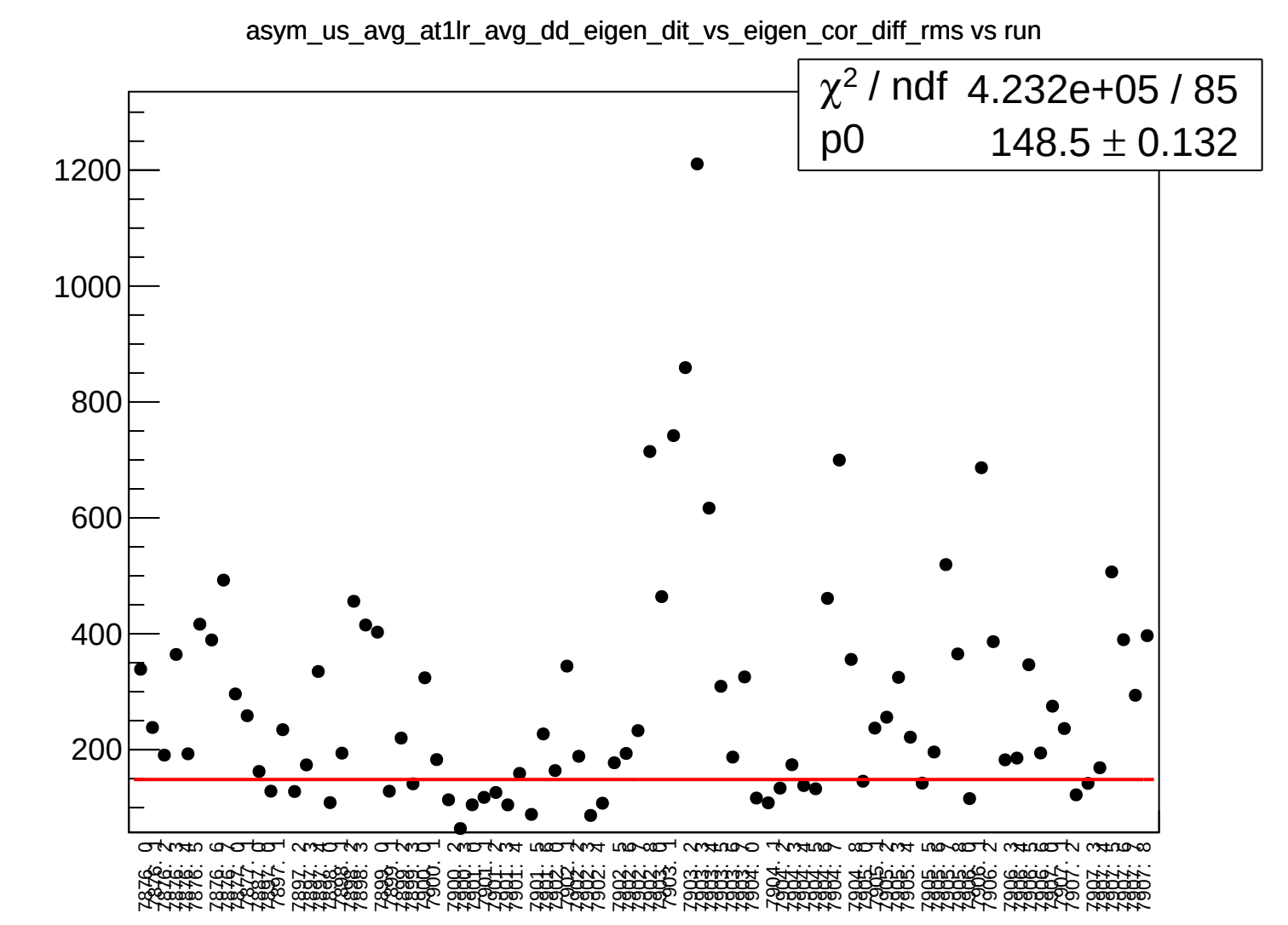

pull1D
Entries 86
Mean −0.004113
Std Dev 0.9496
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

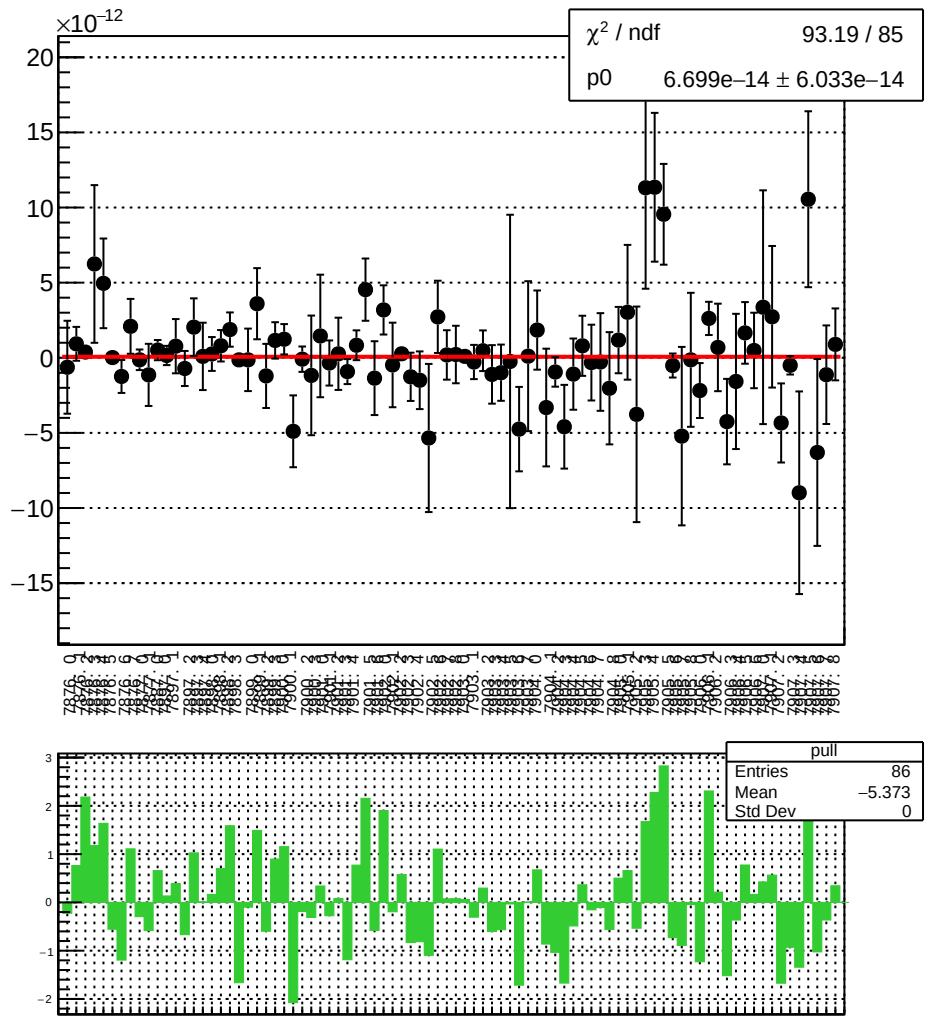

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.05e+05 / 85
p0 0.006079 ± 4.832e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

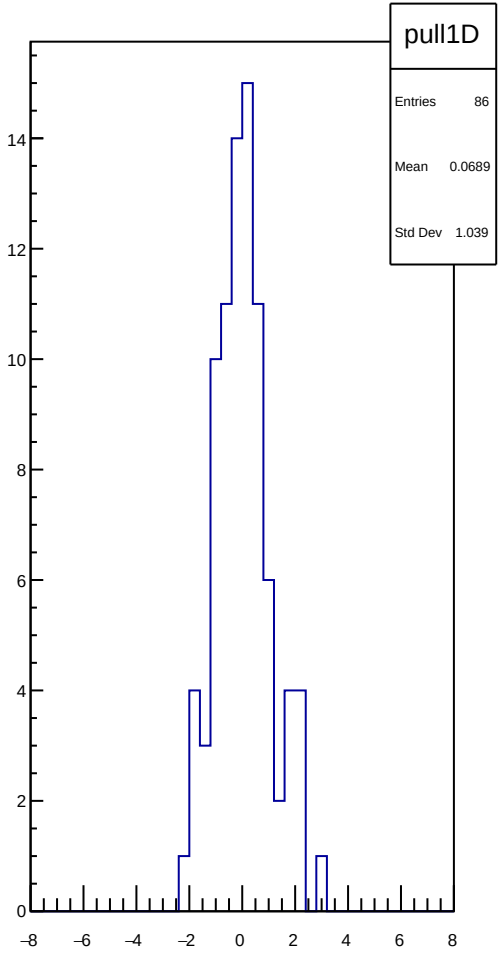

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.43 / 85
p0 0.1909 ± 0.1867
pull
Entries 86
Mean 19.23
Std Dev 23.33
pull1D
Entries 86
Mean 0.05082
Std Dev 0.9717

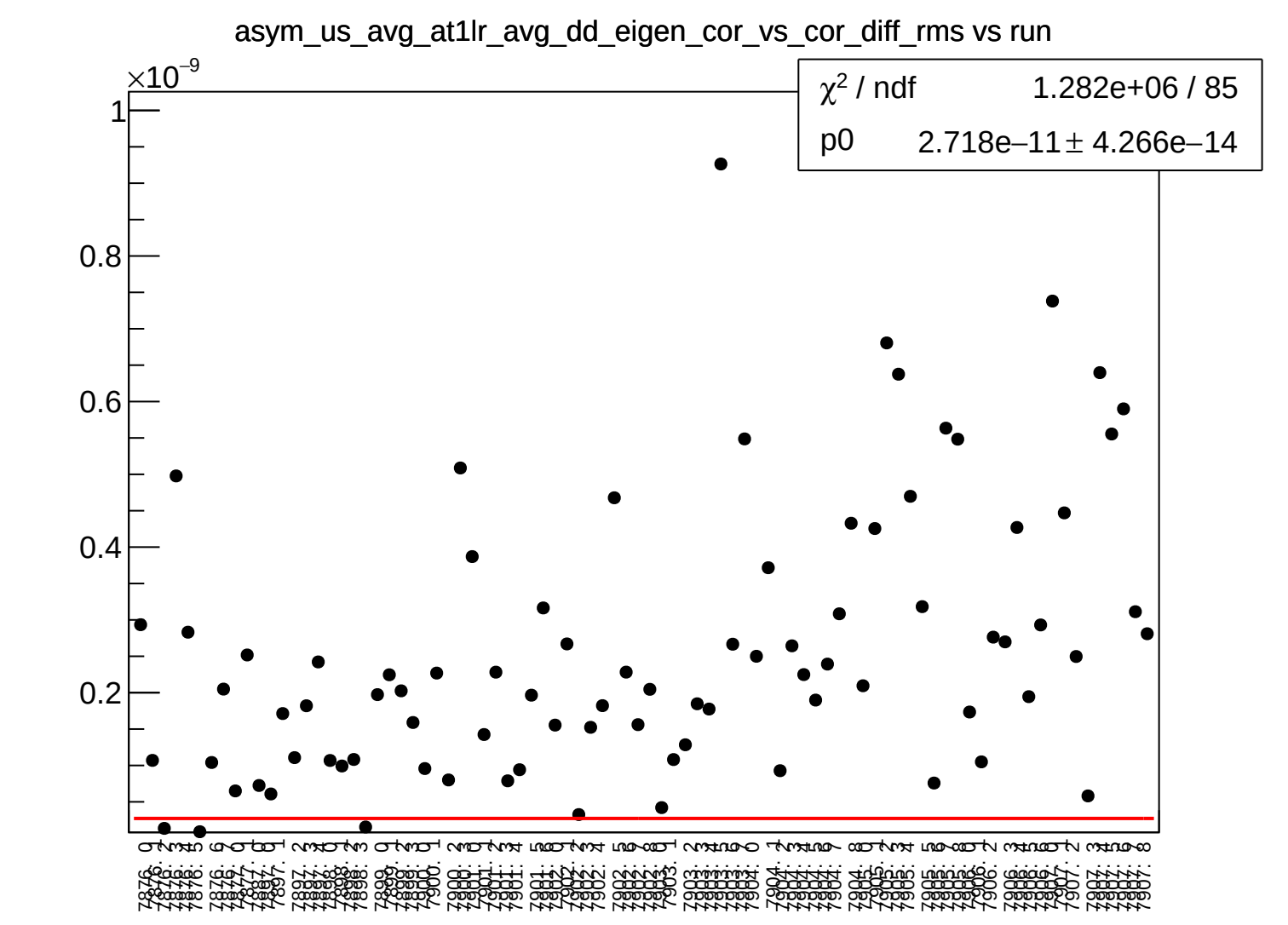

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.232e+05 / 85
p0 148.5 ± 0.132
1200
1000
800
600
400
200

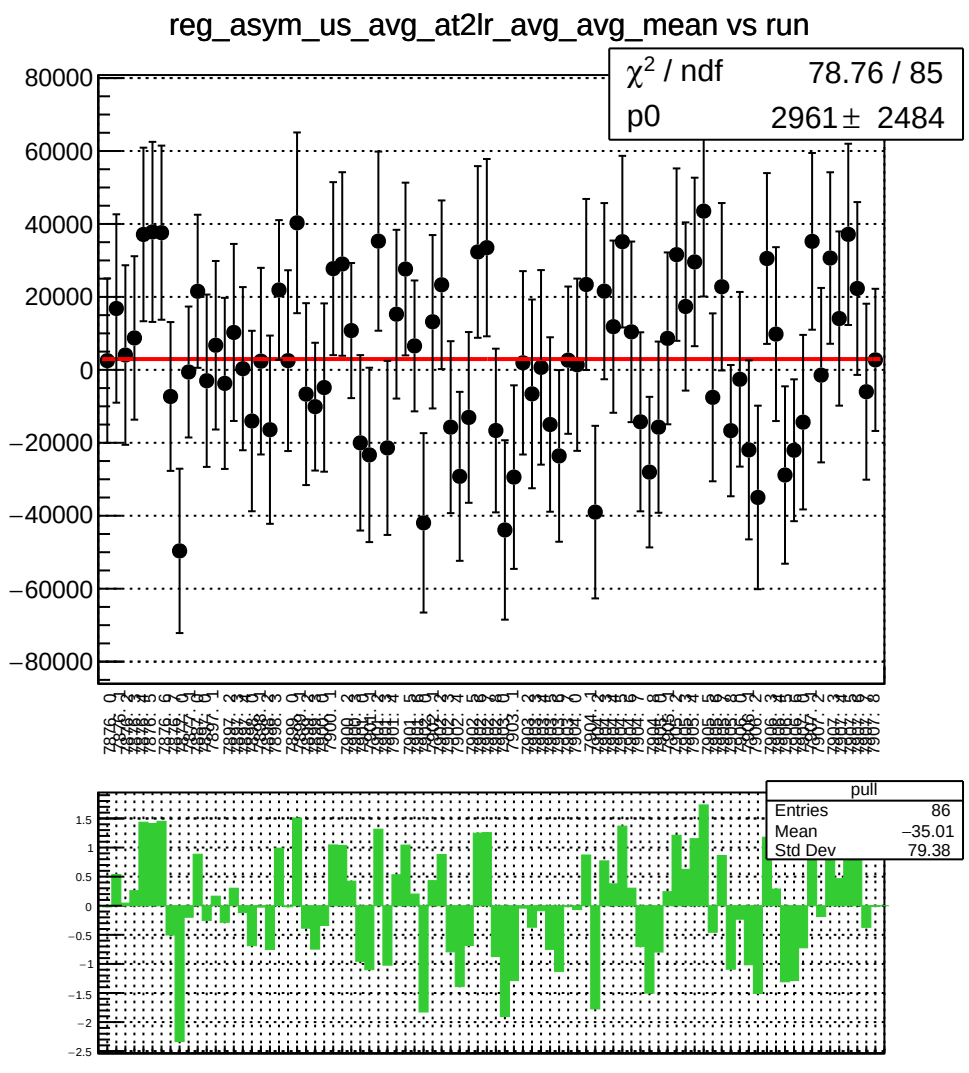

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.43 / 85
p0 0.1909 ± 0.1867
pull
Entries 86
Mean 19.23
Std Dev 23.33
pull1D
Entries 86
Mean 0.05082
Std Dev 0.9717

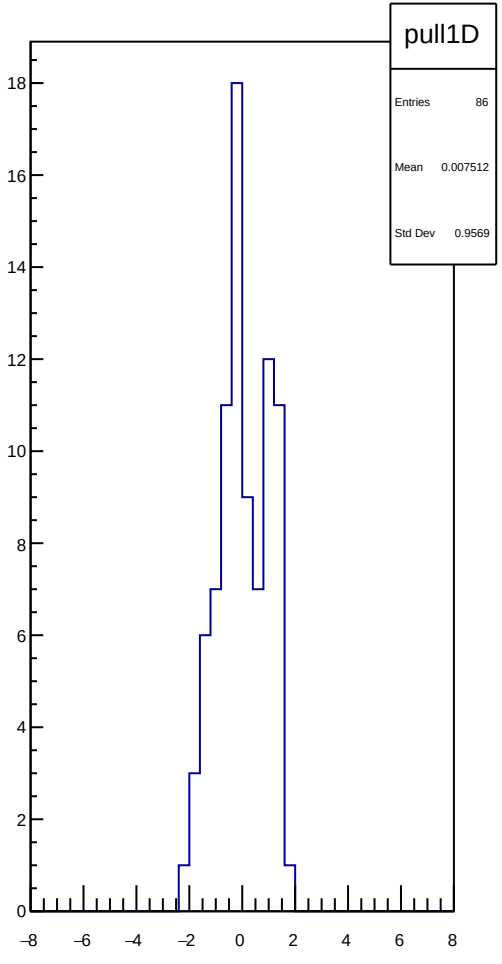

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.232e+05 / 85
p0 148.5 ± 0.132
1200
1000
800
600
400
200

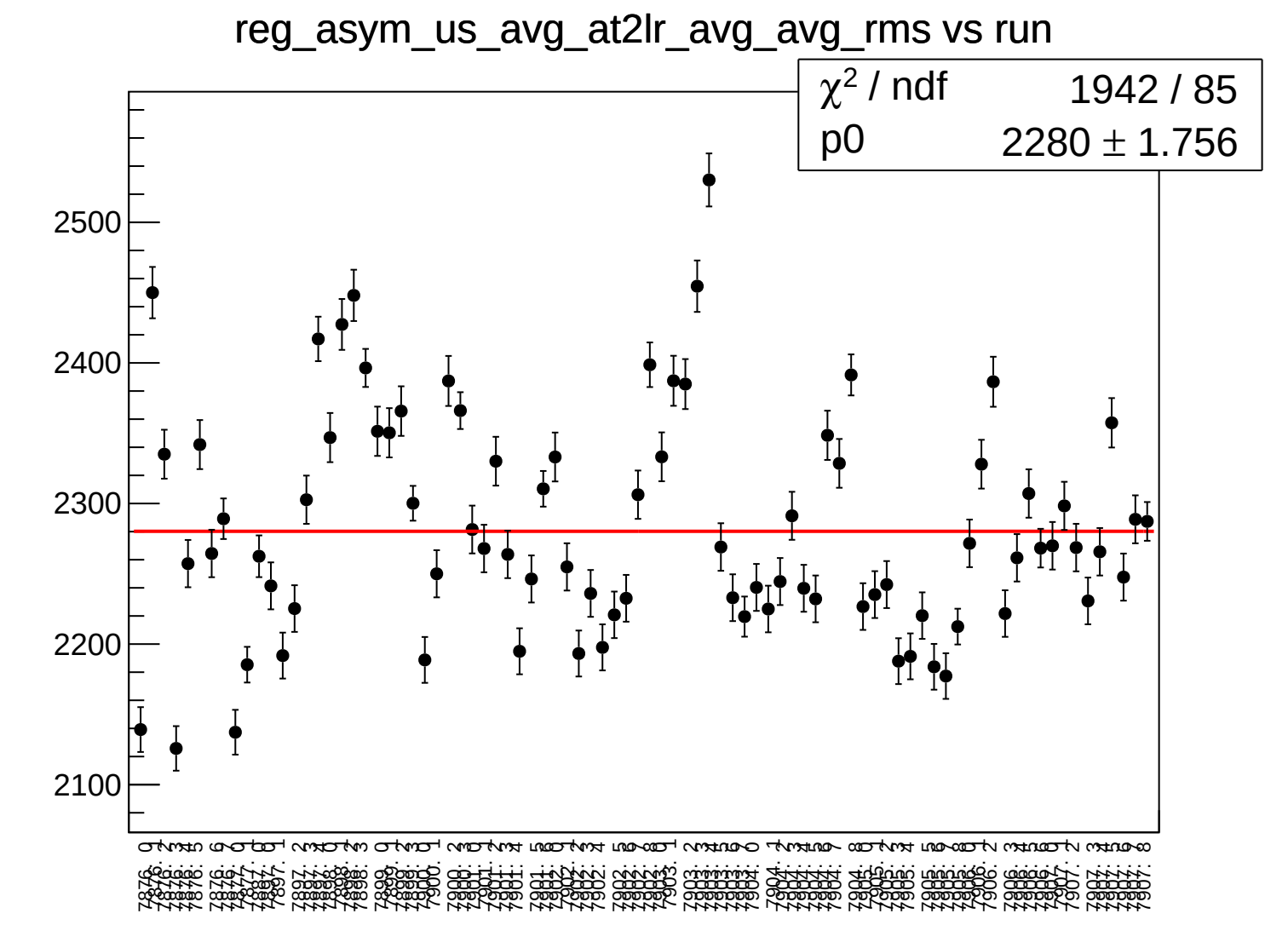

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.19 / 85
p0 6.699e−14 ± 6.033e−14
pull
Entries 86
Mean −5.373
Std Dev 0

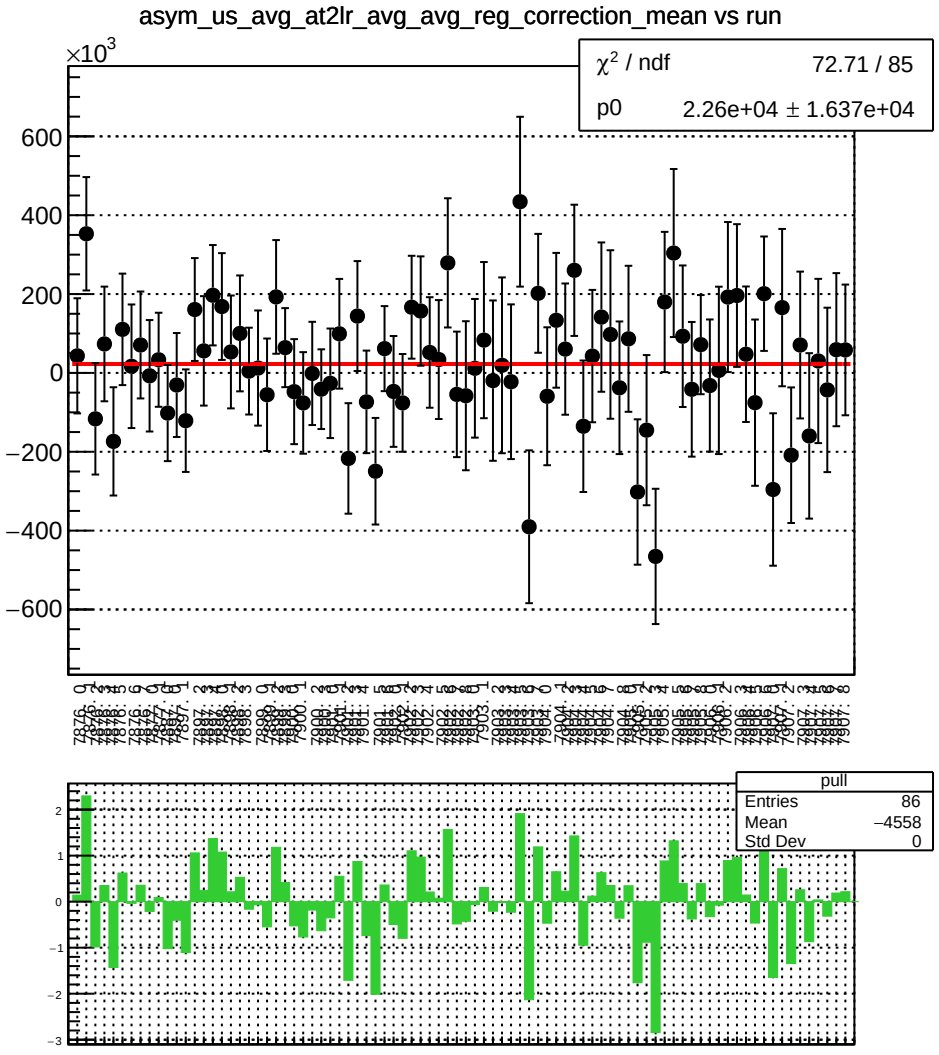

pull1D
Entries 86
Mean 0.0689
Std Dev 1.039

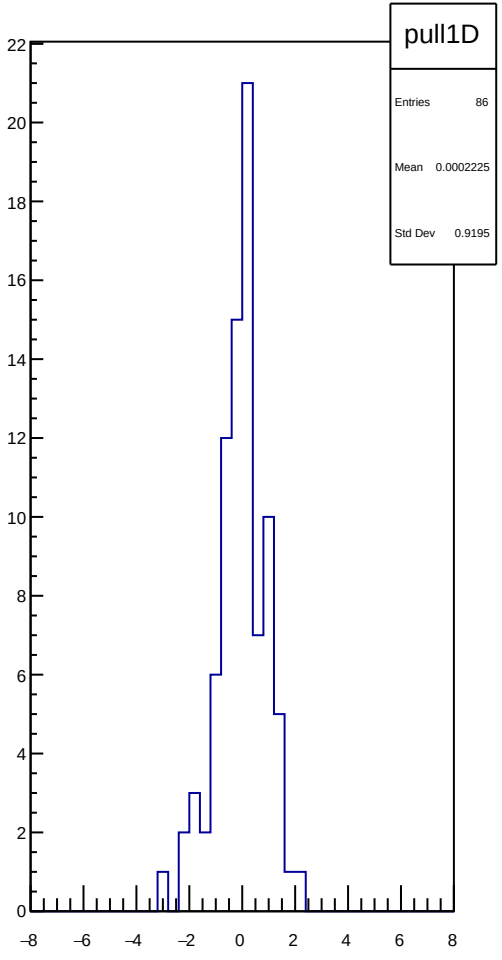

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.282e+06 / 85
p0 2.718e−11 ± 4.266e−14
1
0.8
0.6
0.4
0.2

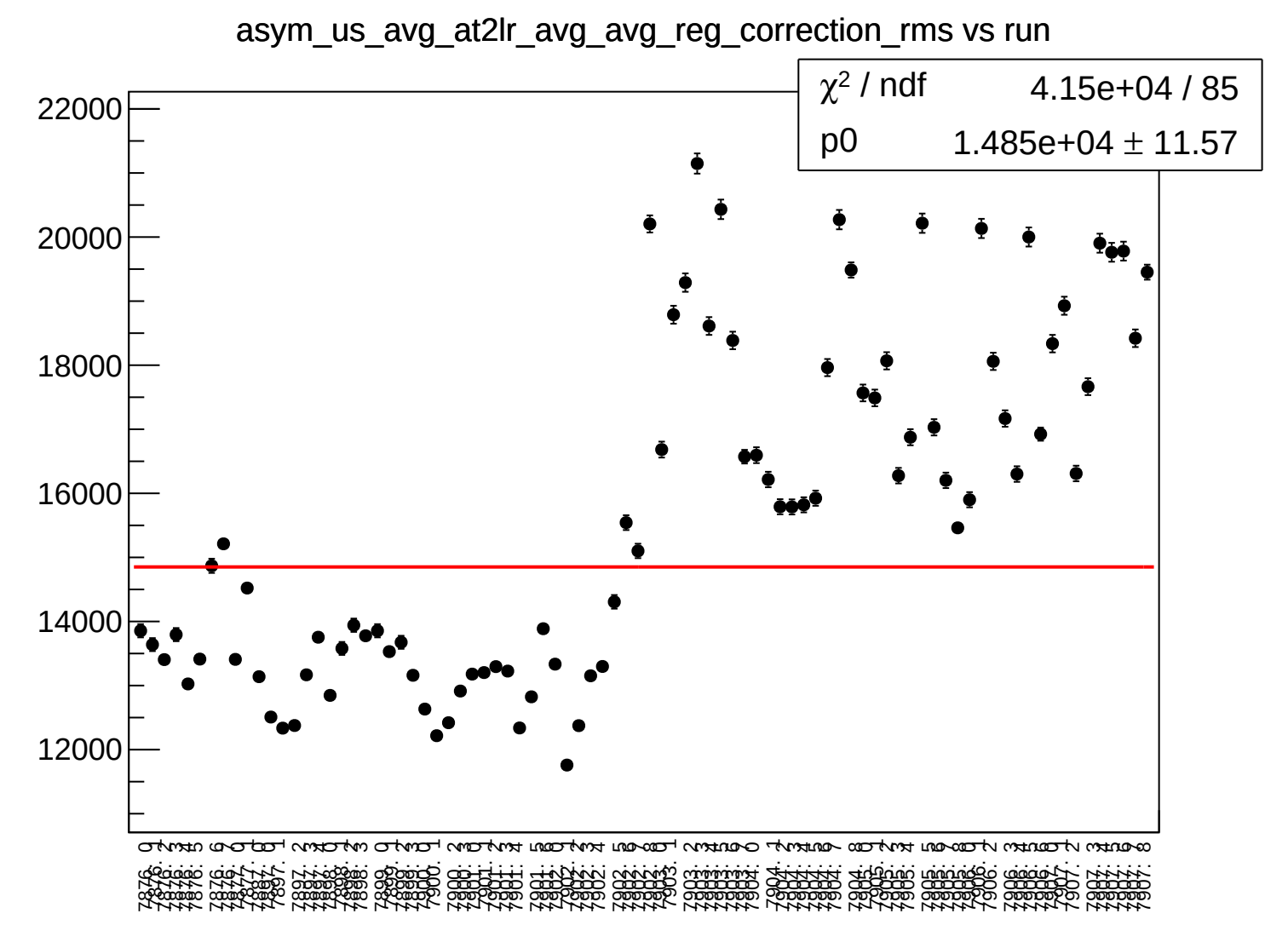

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 78.76 / 85
p0 2961 ± 2484
pull
Entries 86
Mean −35.01
Std Dev 79.38

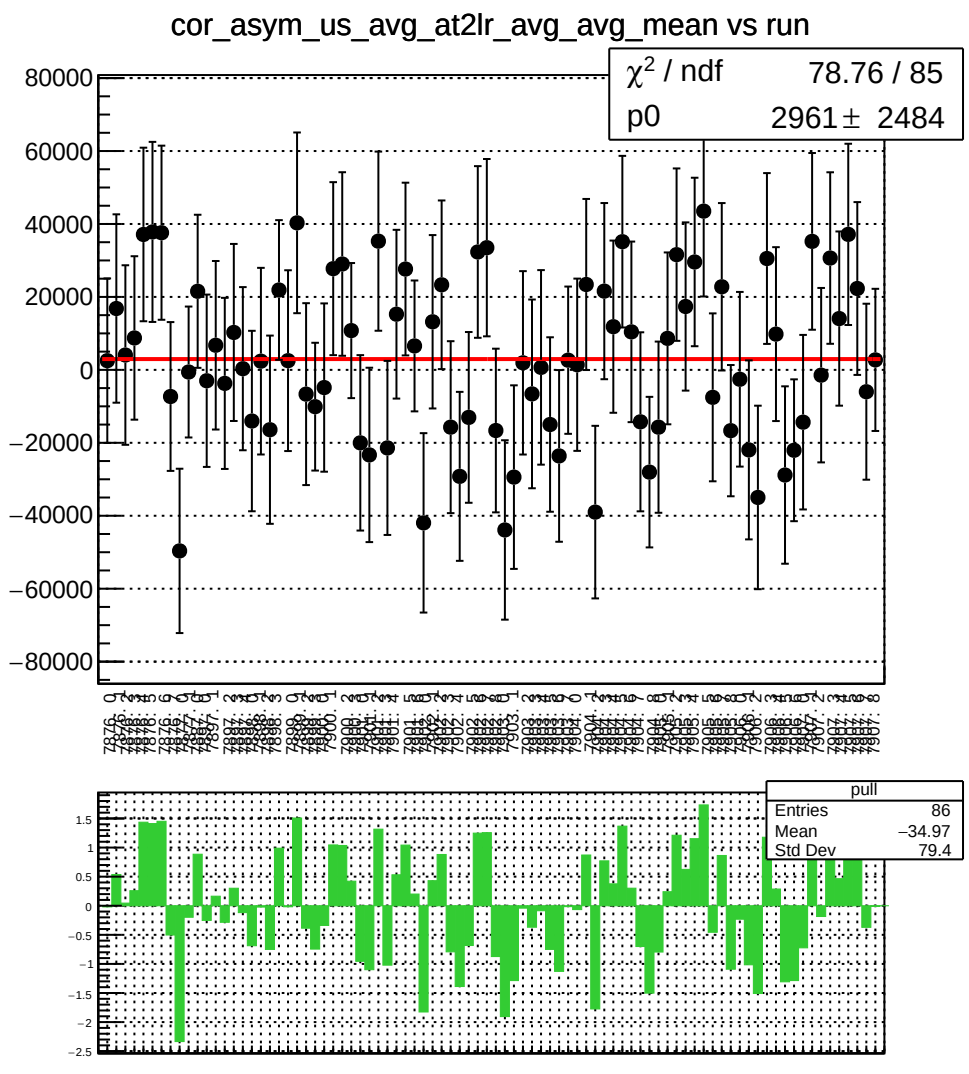

pull1D
Entries 86
Mean 0.007512
Std Dev 0.9569

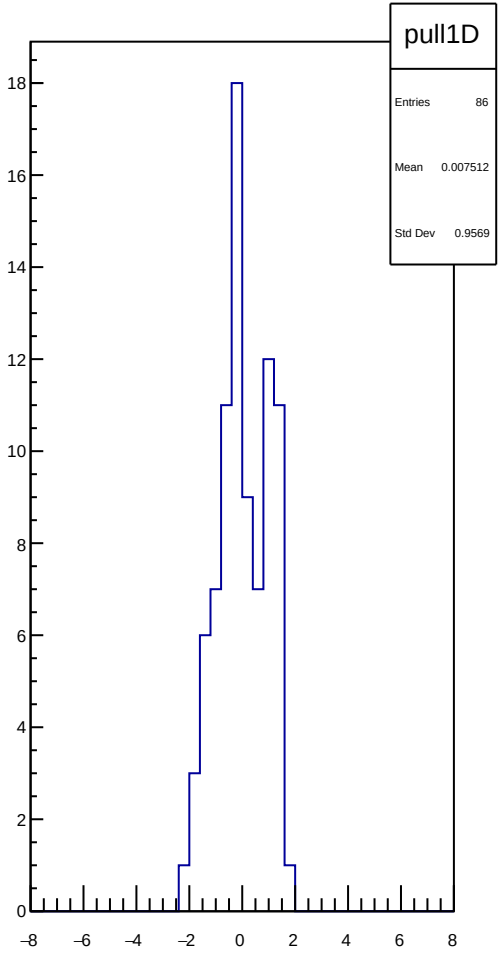

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1942 / 85
p0 2280 ± 1.756
2500
2400
2300
2200
2100

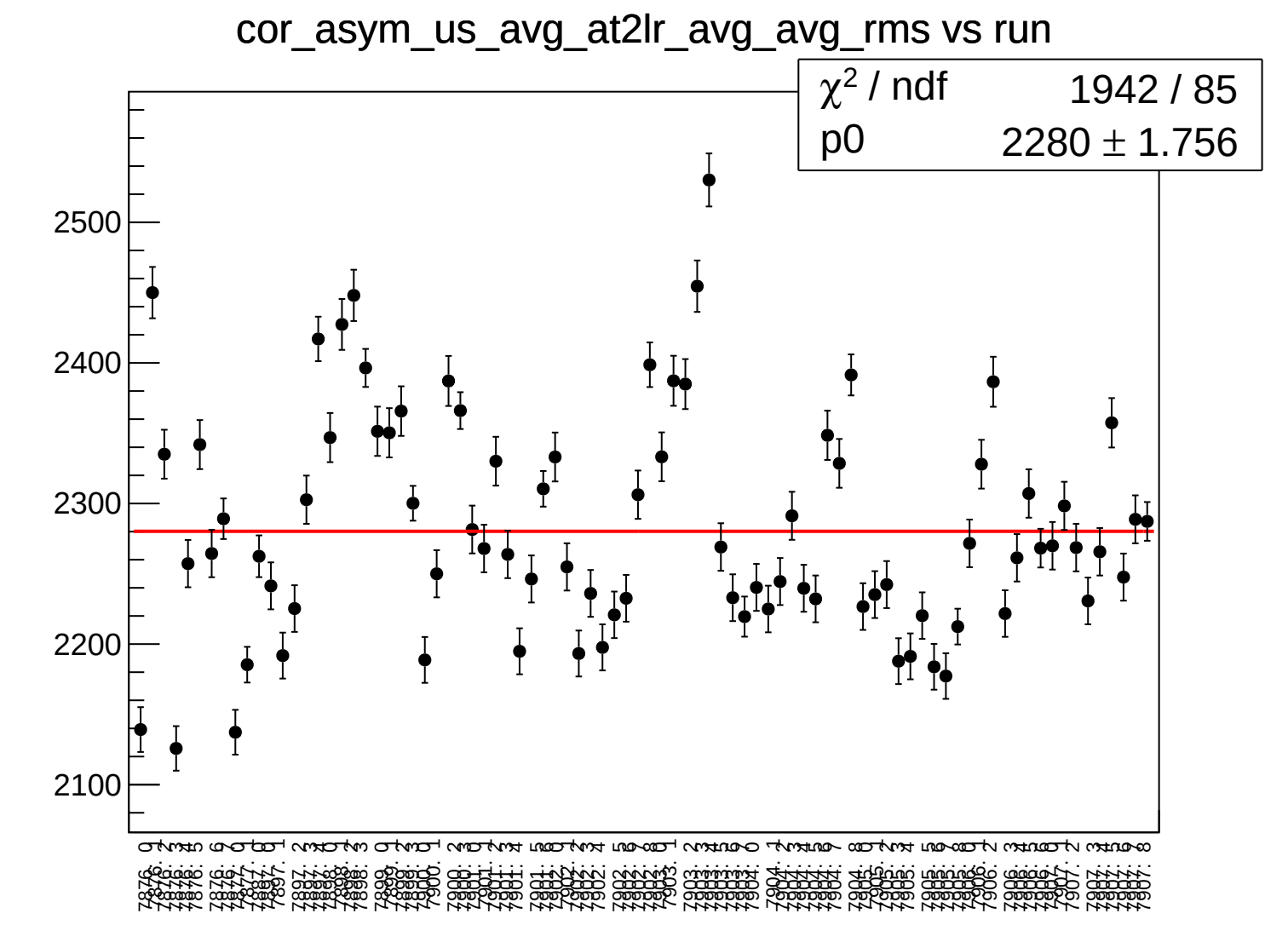

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.71 / 85
p0 2.26e+04 ± 1.637e+04
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean −4558
Std Dev 0
2
1
0
−1
−2
−3

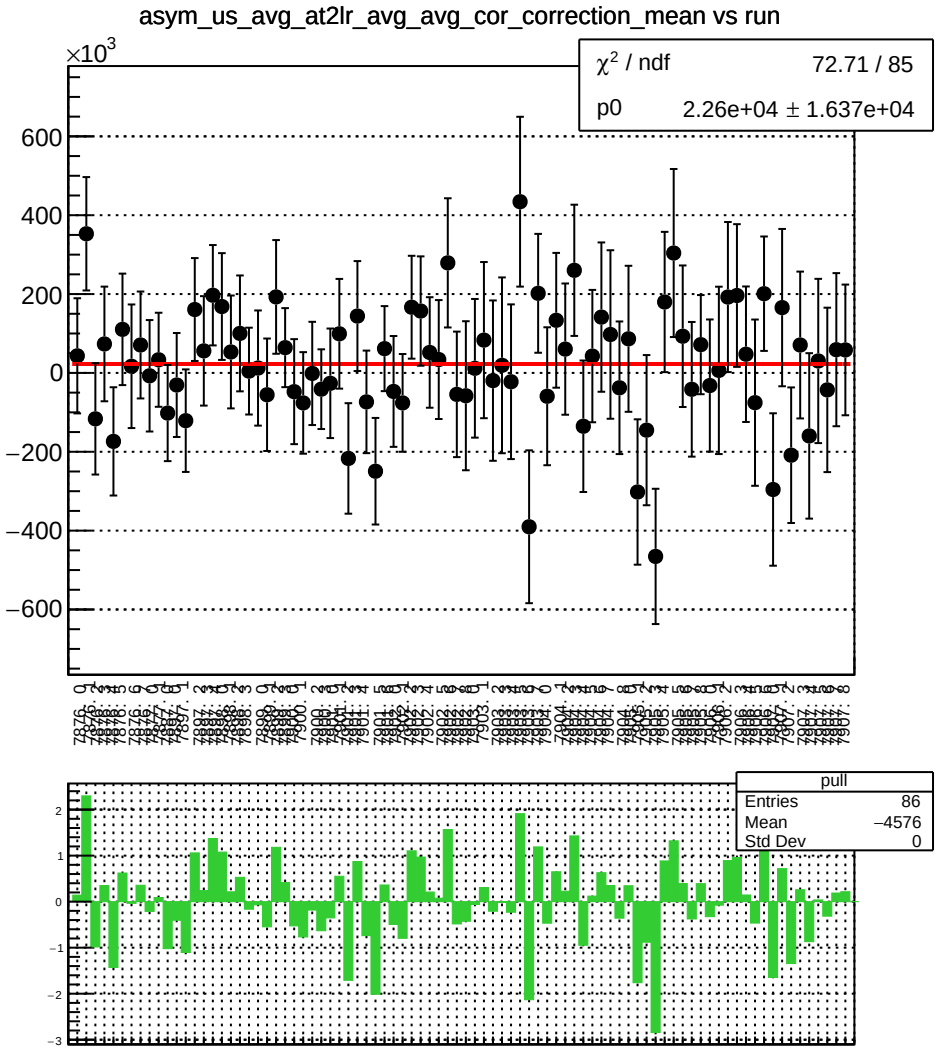

pull1D
Entries 86
Mean 0.0002225
Std Dev 0.9195
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

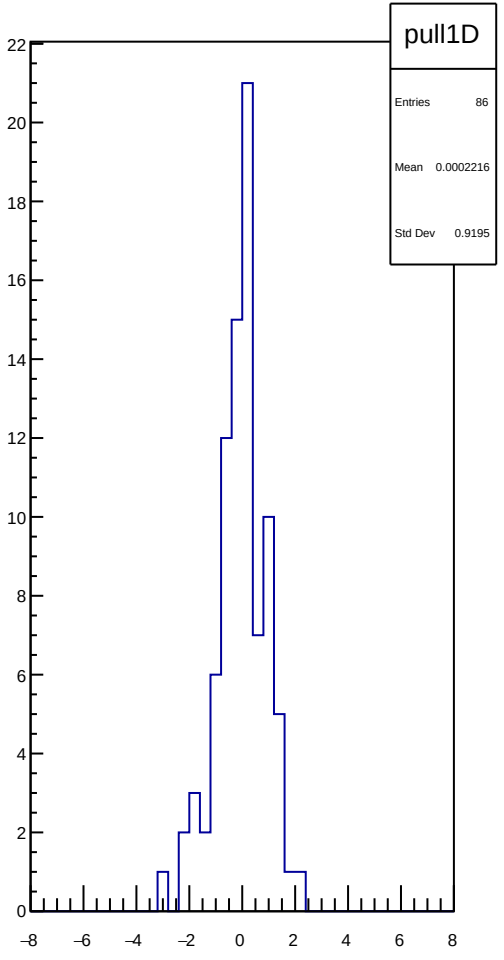

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4.15e+04 / 85
p0 1.485e+04 ± 11.57
22000
20000
18000
16000
14000
12000

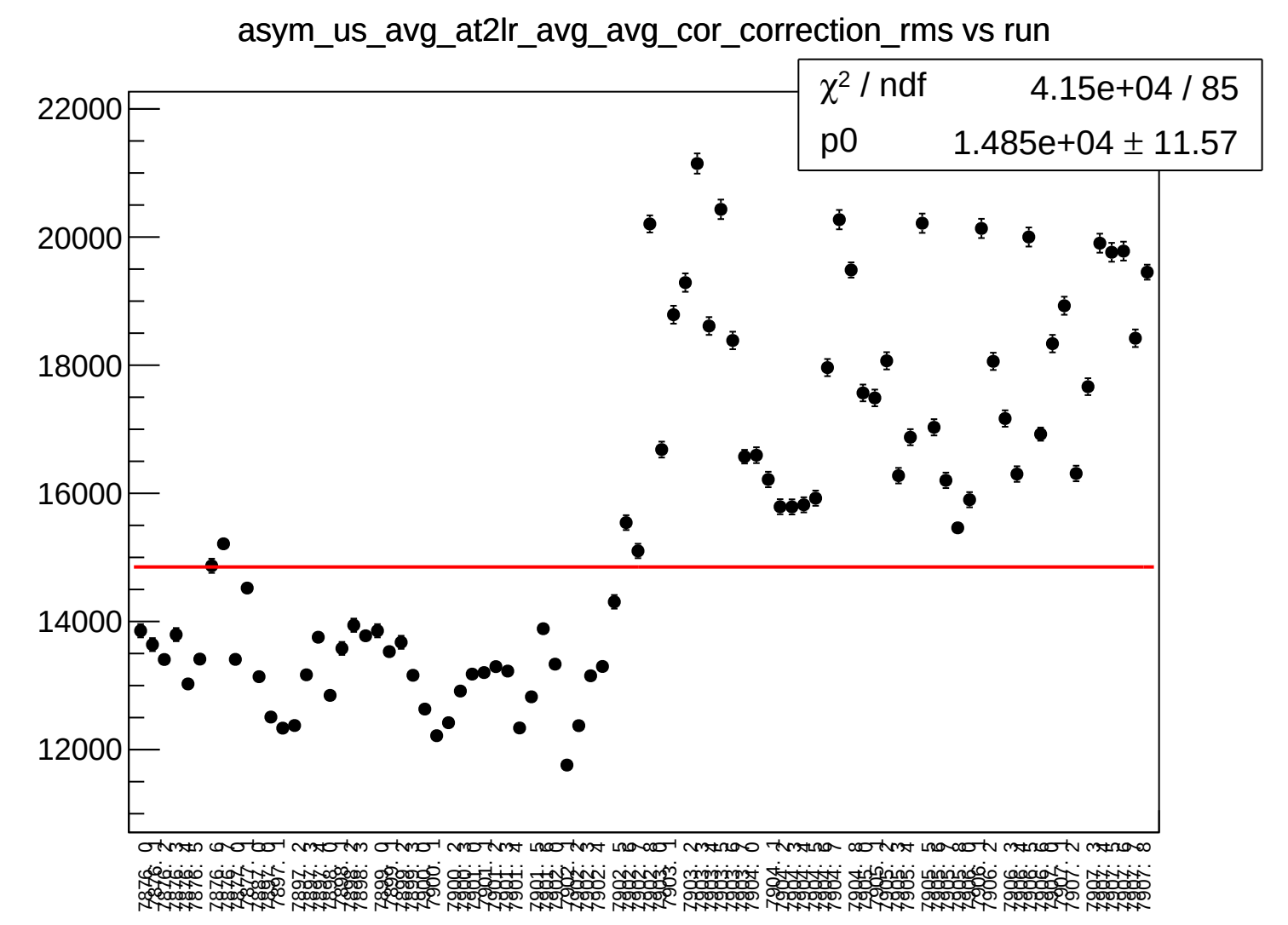

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 78.76 / 85
p0 2961 ± 2484
pull
Entries 86
Mean −34.97
Std Dev 79.4

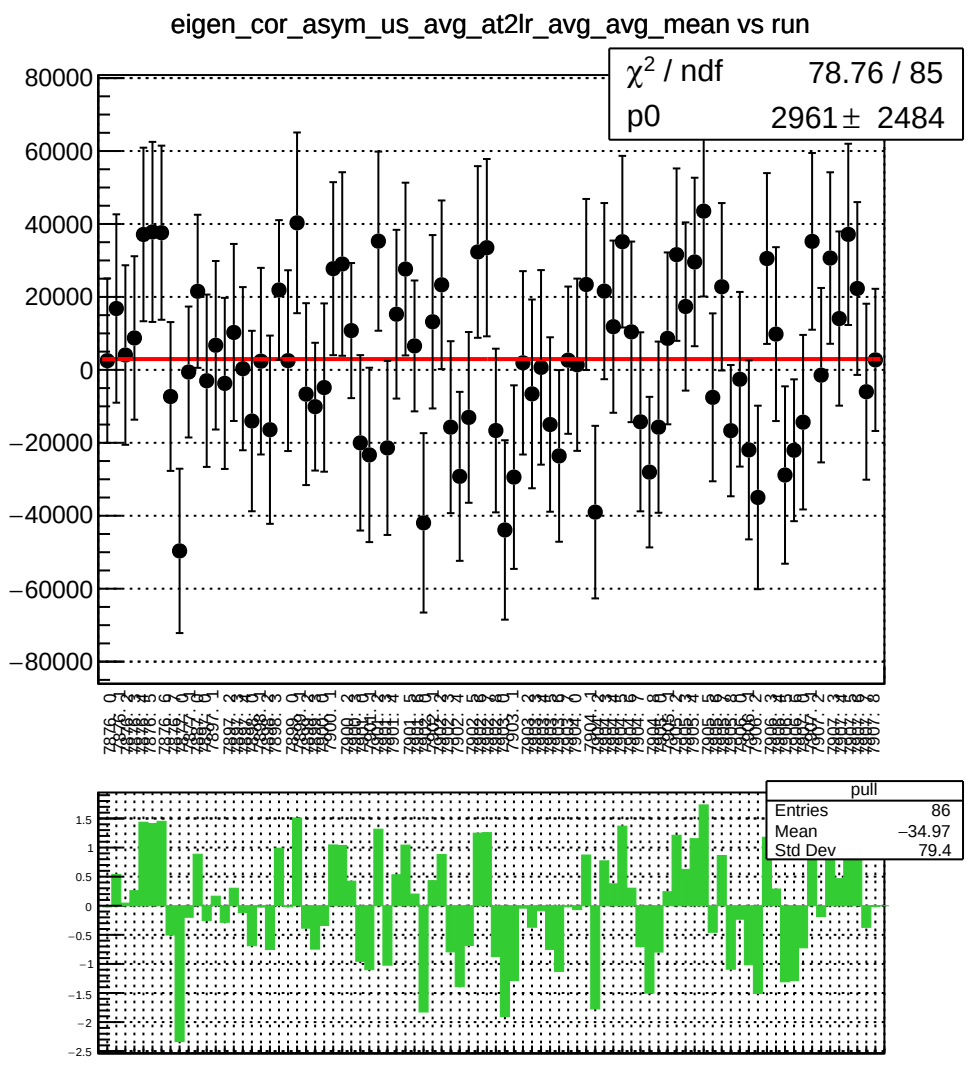

pull1D
Entries 86
Mean 0.007512
Std Dev 0.9569

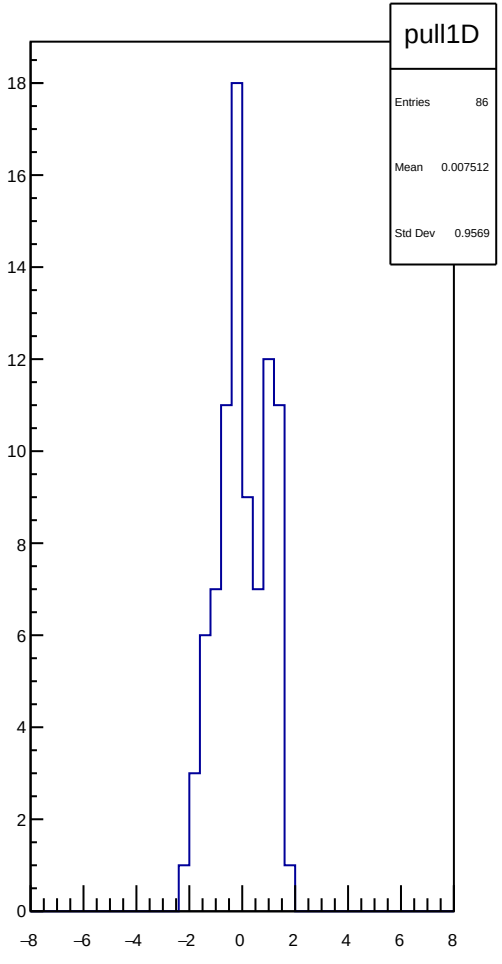

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1942 / 85
p0 2280 ± 1.756
2500
2400
2300
2200
2100

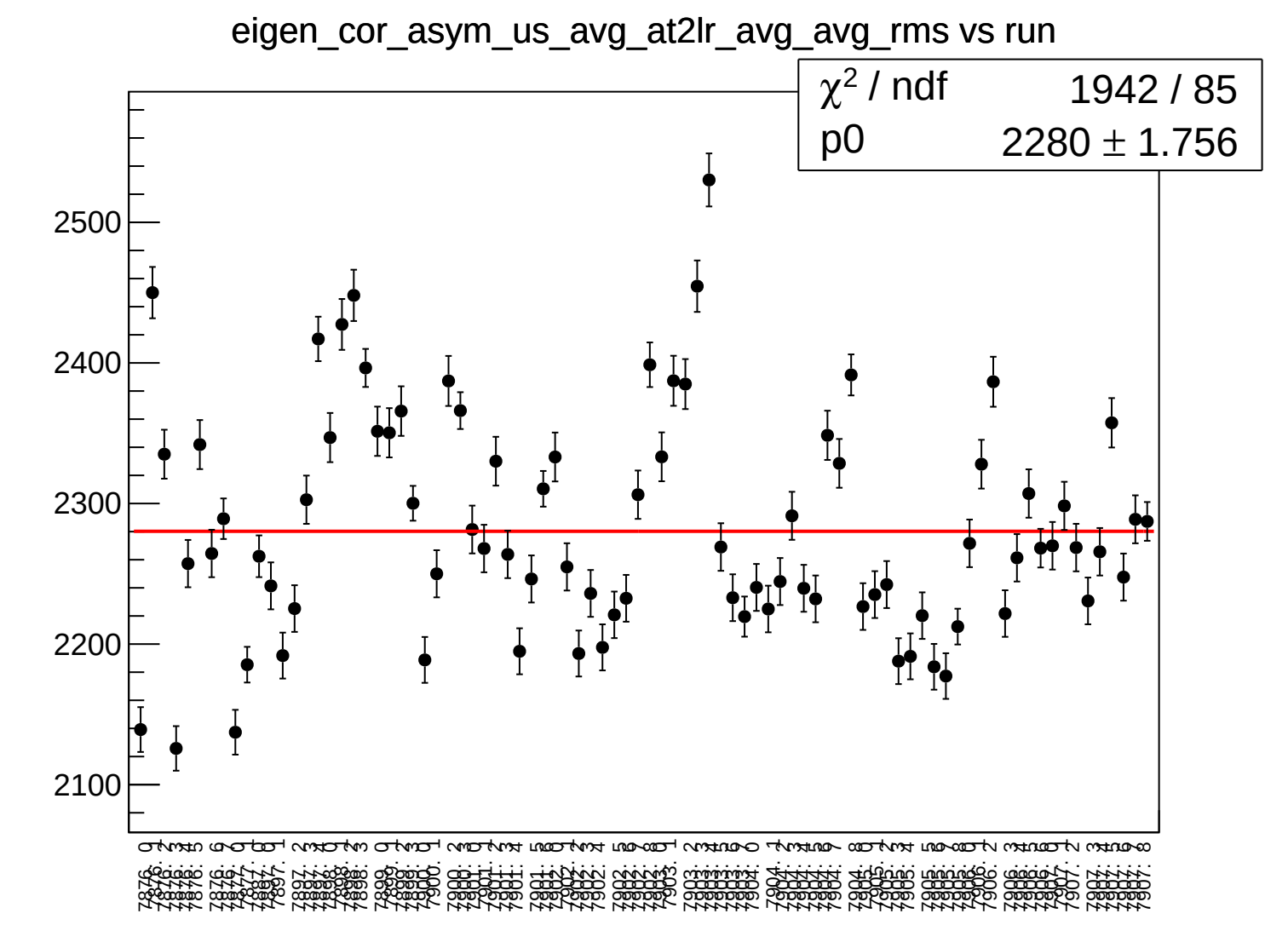

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 72.71 / 85
p0 2.26e+04 ± 1.637e+04
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean −4576
Std Dev 0
2
1
0
−1
−2
−3

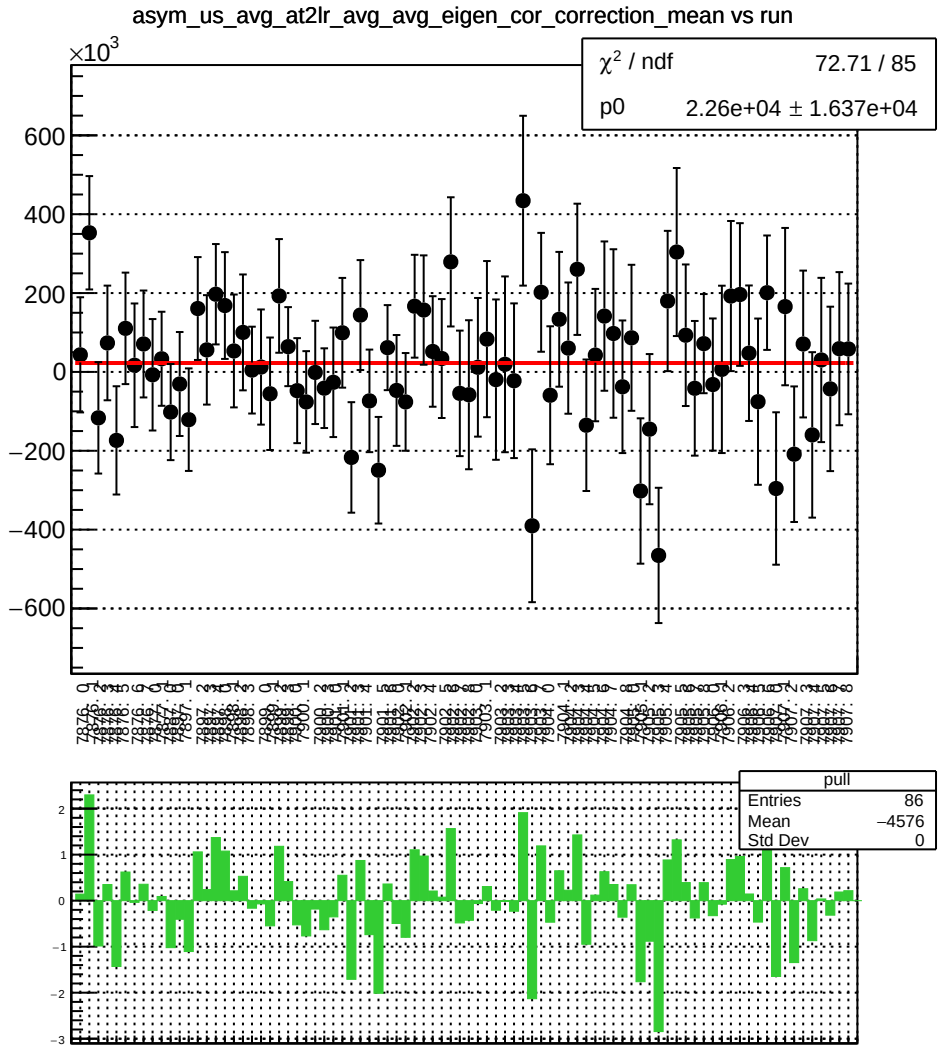

pull1D
Entries 86
Mean 0.0002216
Std Dev 0.9195
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

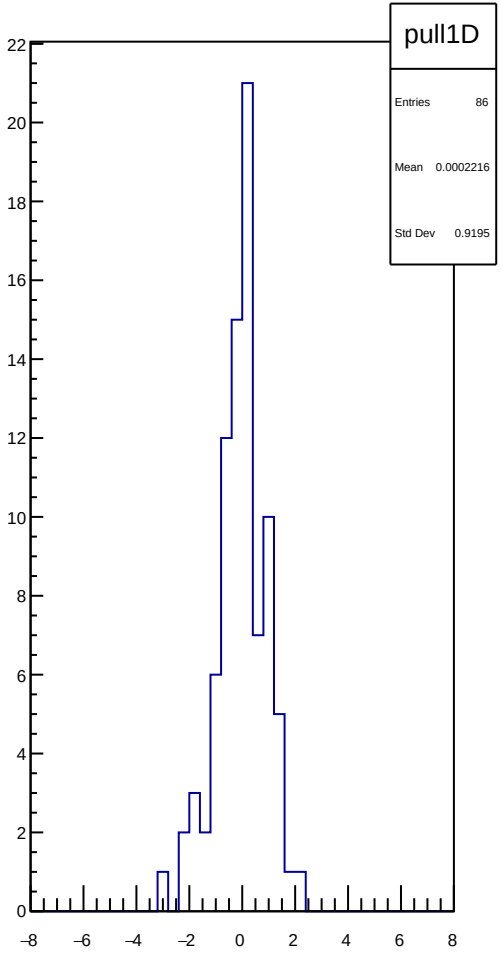

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4.15e+04 / 85
p0 1.485e+04 ± 11.57
22000
20000
18000
16000
14000
12000

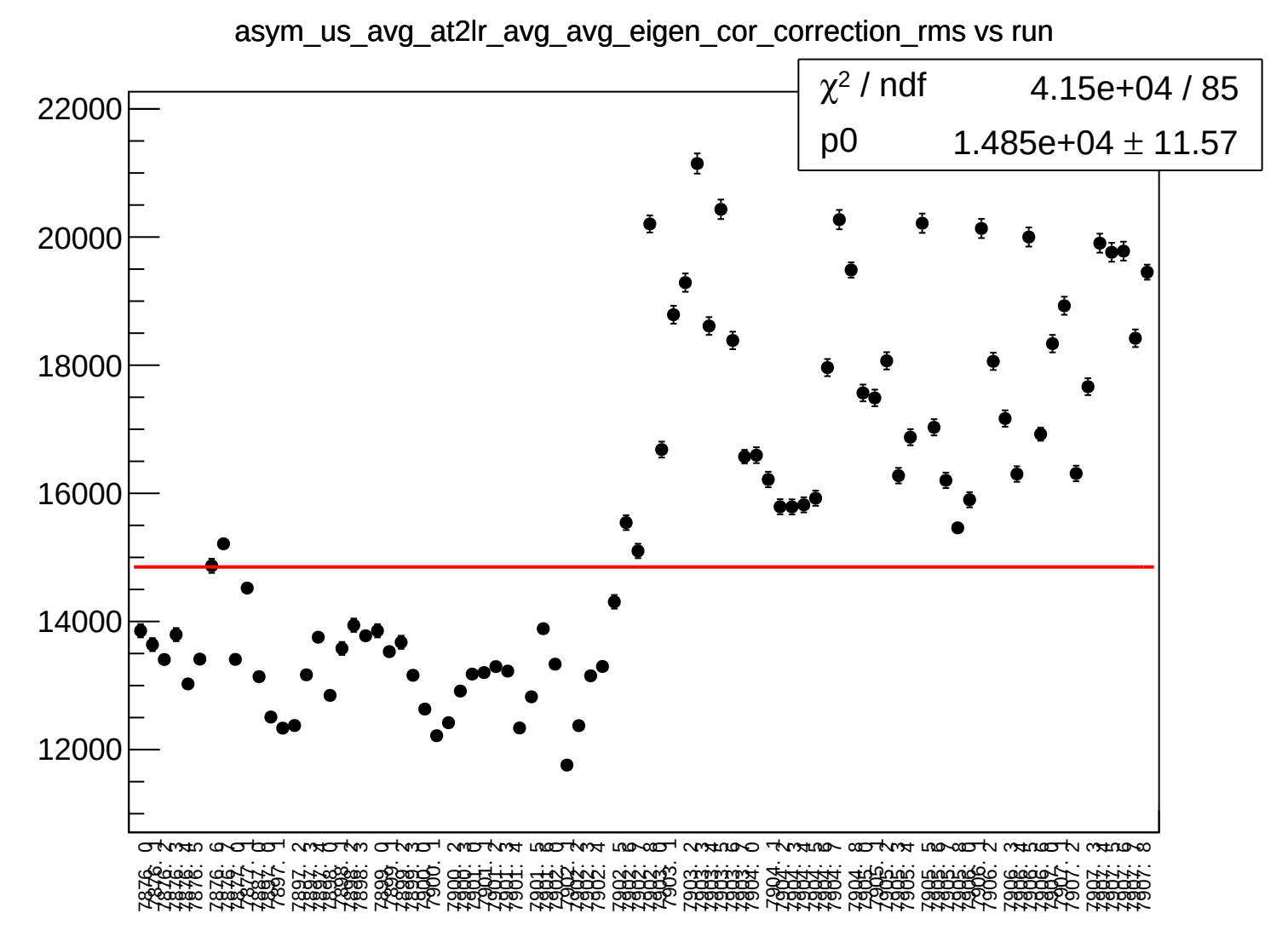

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 78.76 / 85
p0 2961 ± 2484
pull
Entries 86
Mean −34.97
Std Dev 79.4

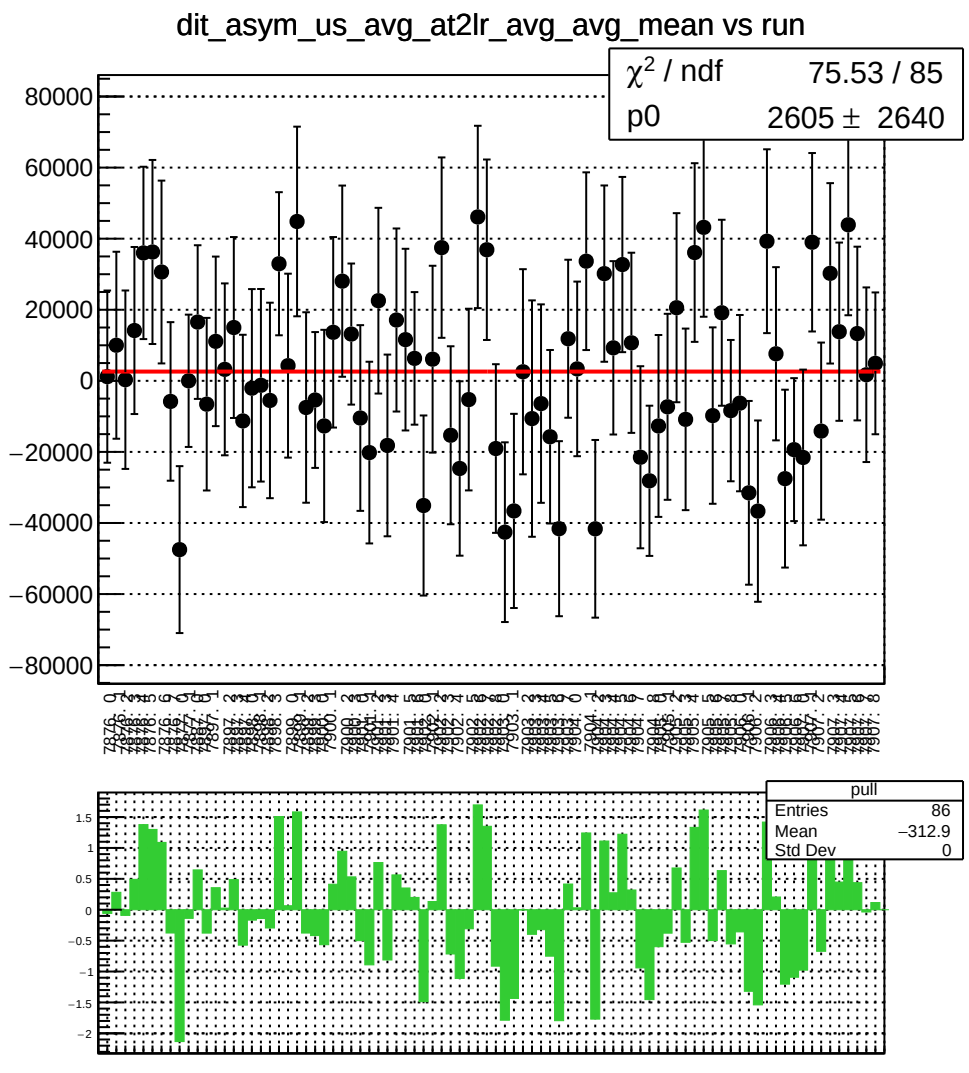

pull1D
Entries 86
Mean 0.007512
Std Dev 0.9569

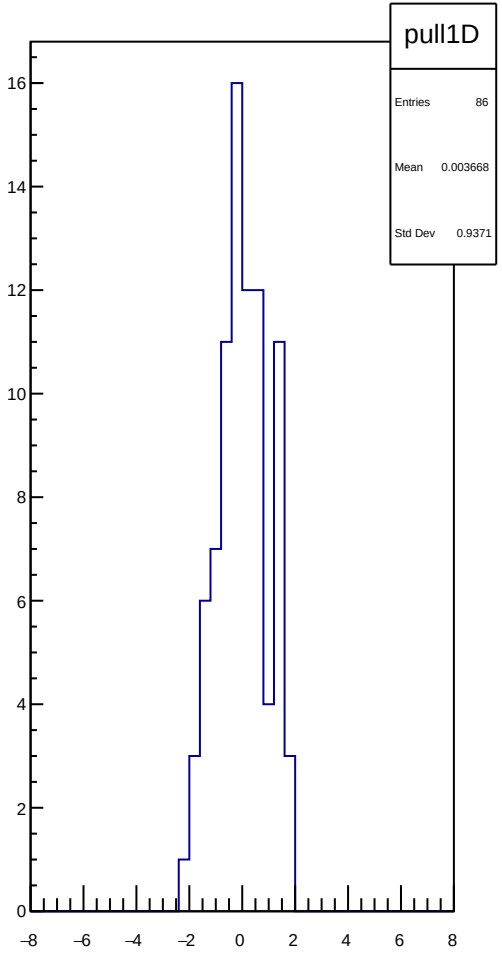

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 1942 / 85
p0 2280 ± 1.756
2500
2400
2300
2200
2100

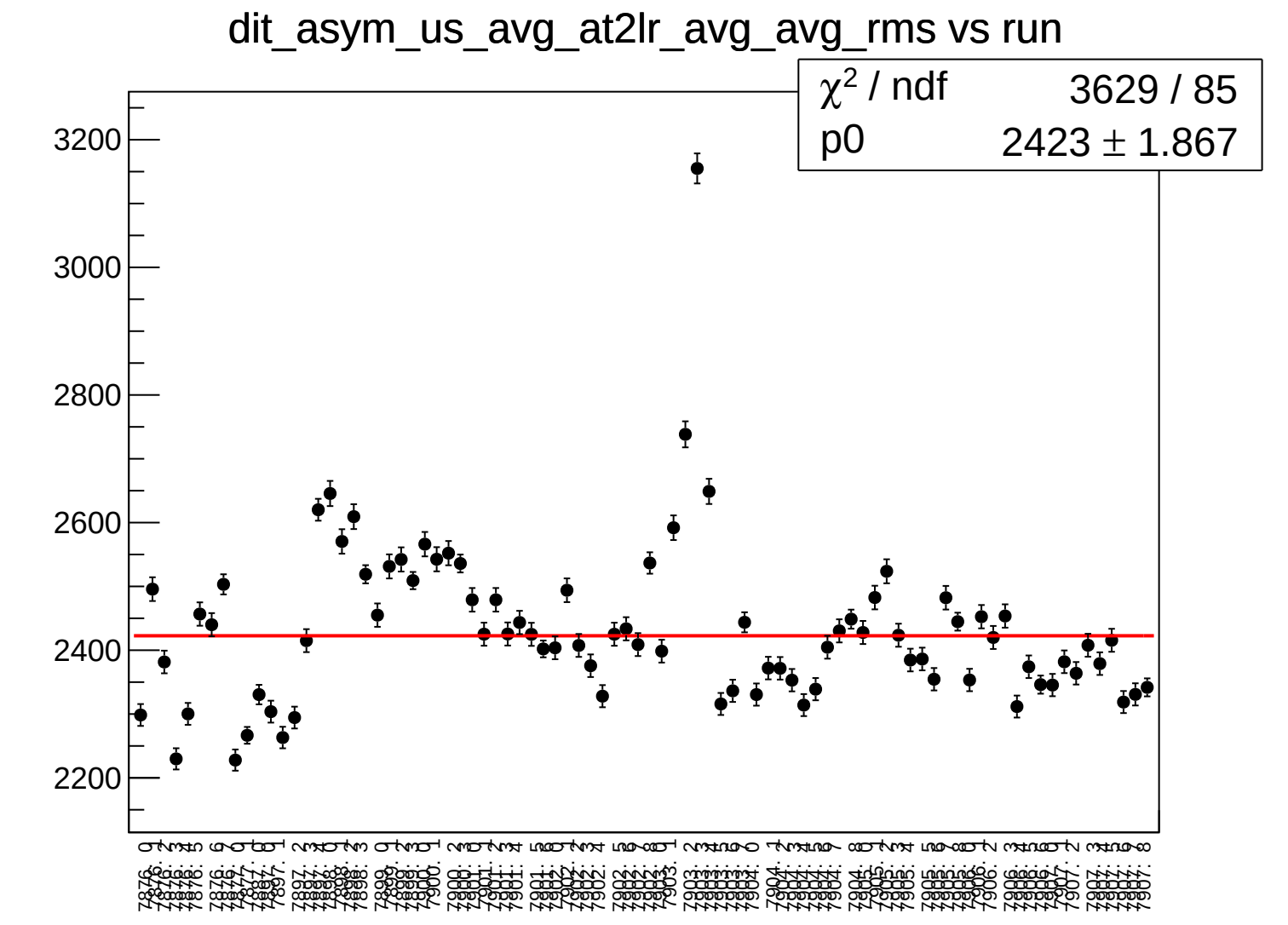

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.71 / 85
p0 2.26e+04 ± 1.637e+04
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean −4576
Std Dev 0
2
1
0
−1
−2
−3

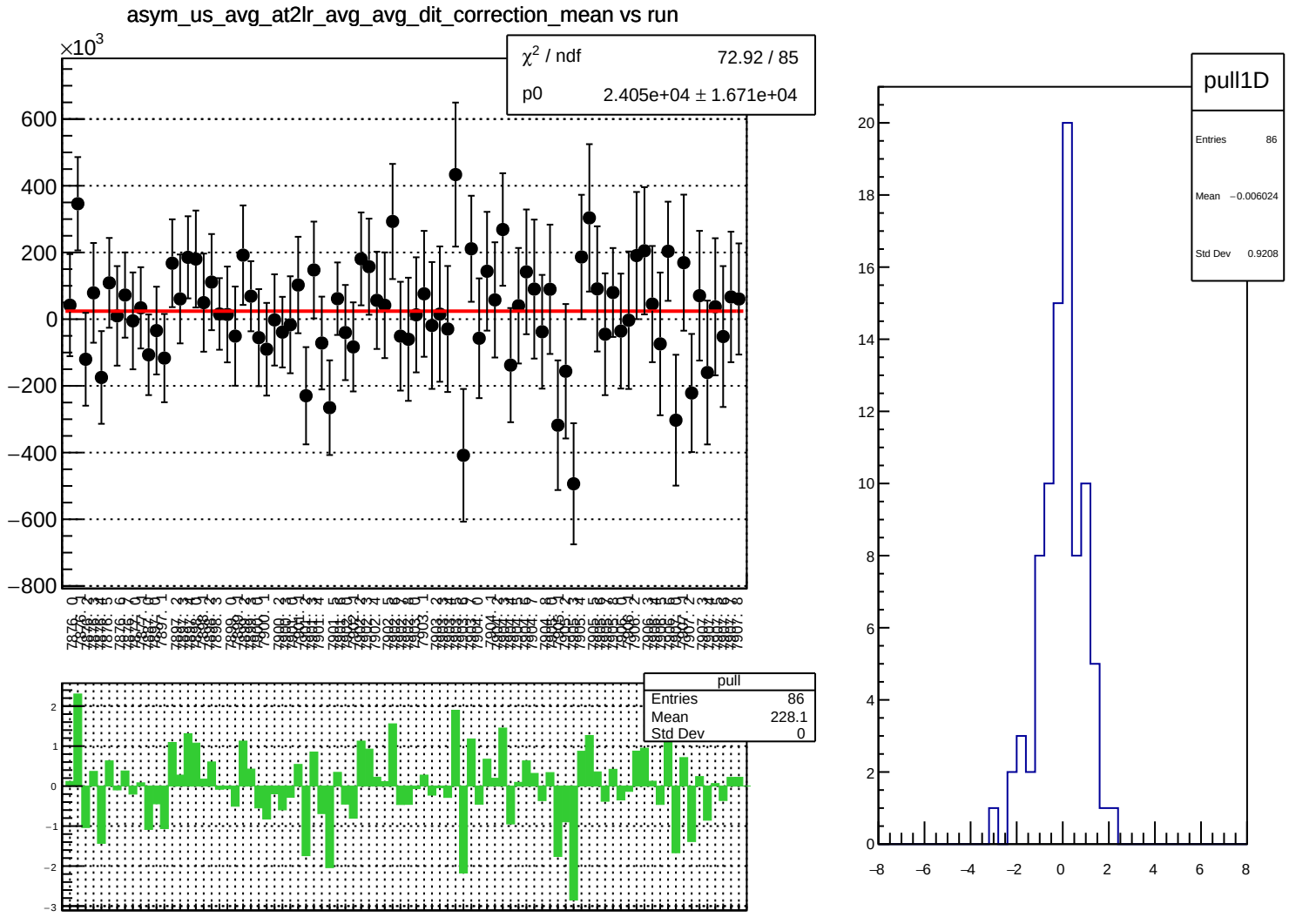

pull1D
Entries 86
Mean 0.0002216
Std Dev 0.9195
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

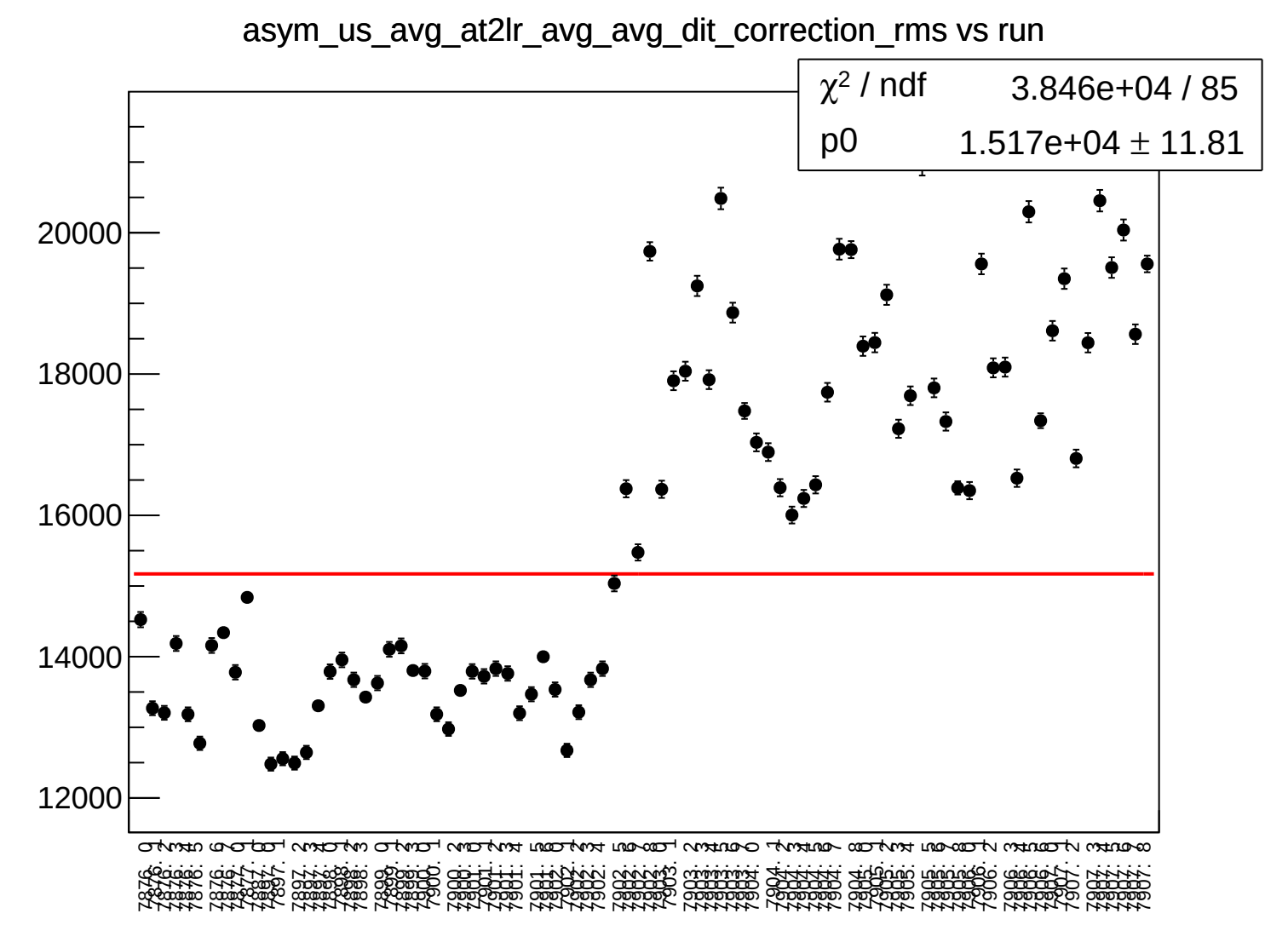

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.15e+04 / 85
p0 1.485e+04 ± 11.57
22000
20000
18000
16000
14000
12000

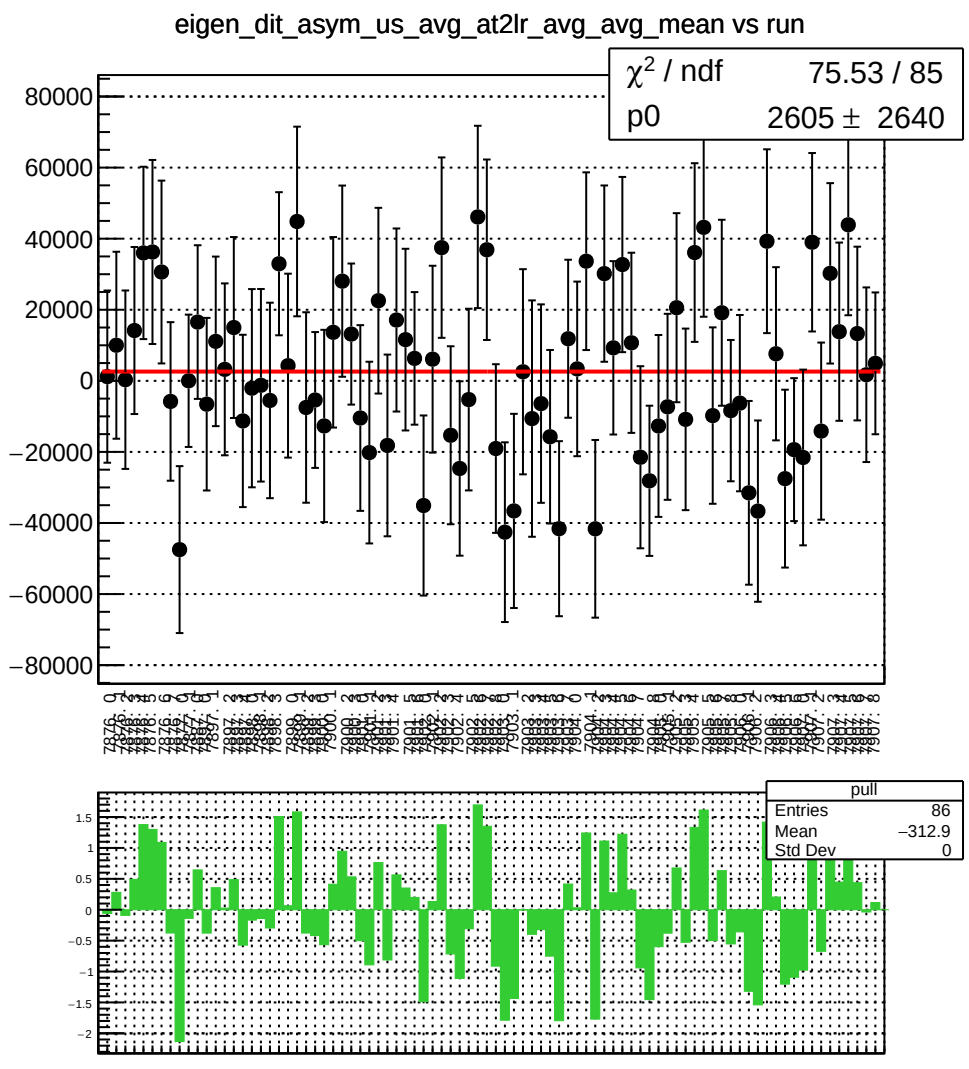

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 75.53 / 85
p0 2605 ± 2640
pull
Entries 86
Mean −312.9
Std Dev 0

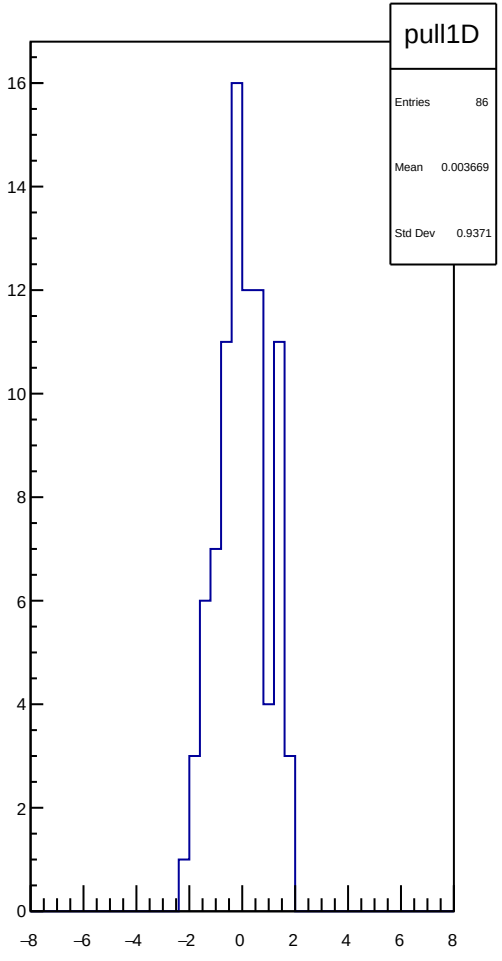

pull1D
Entries 86
Mean 0.003668
Std Dev 0.9371

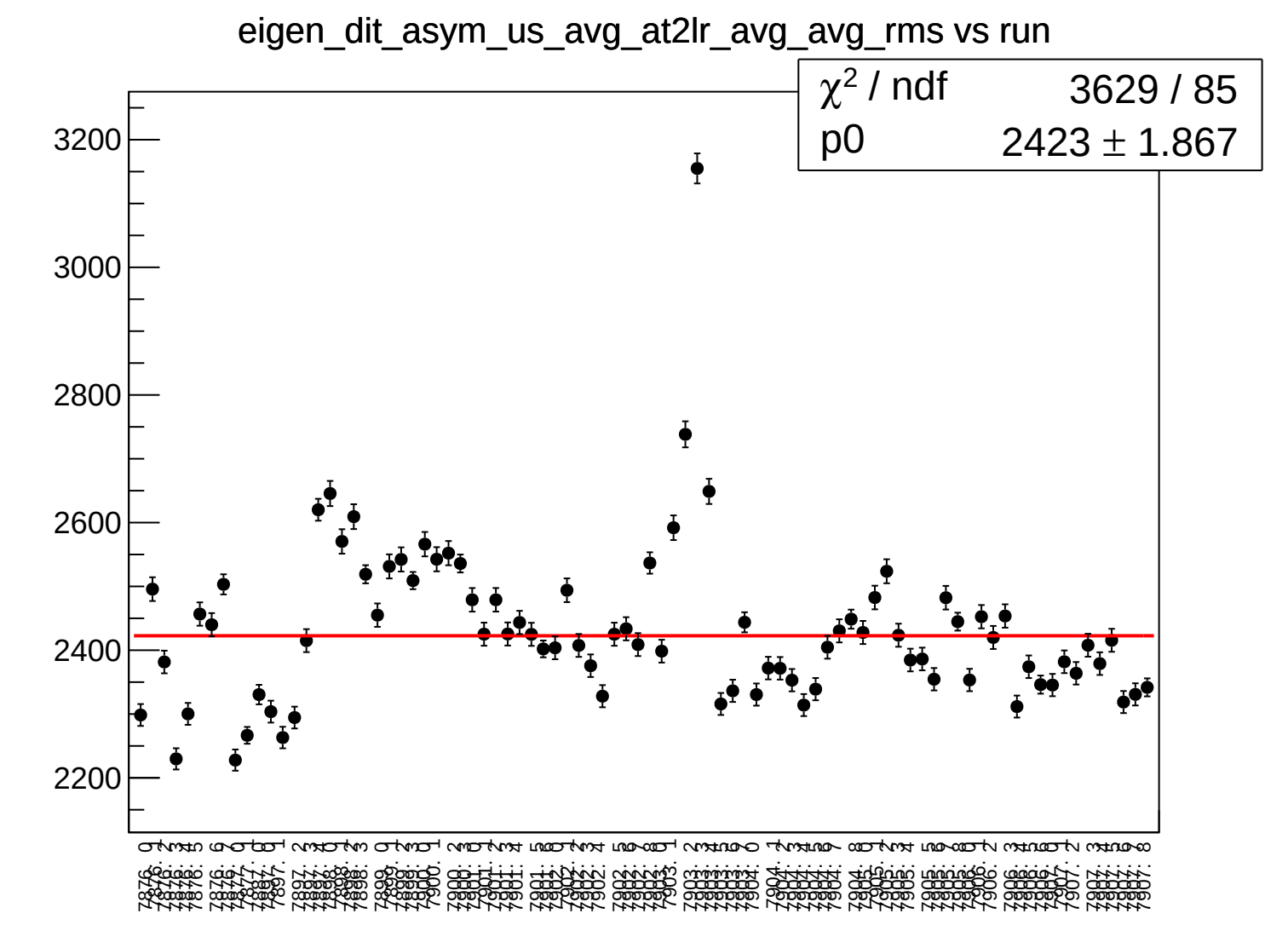

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3629 / 85
p0 2423 ± 1.867
3200
3000
2800
2600
2400
2200

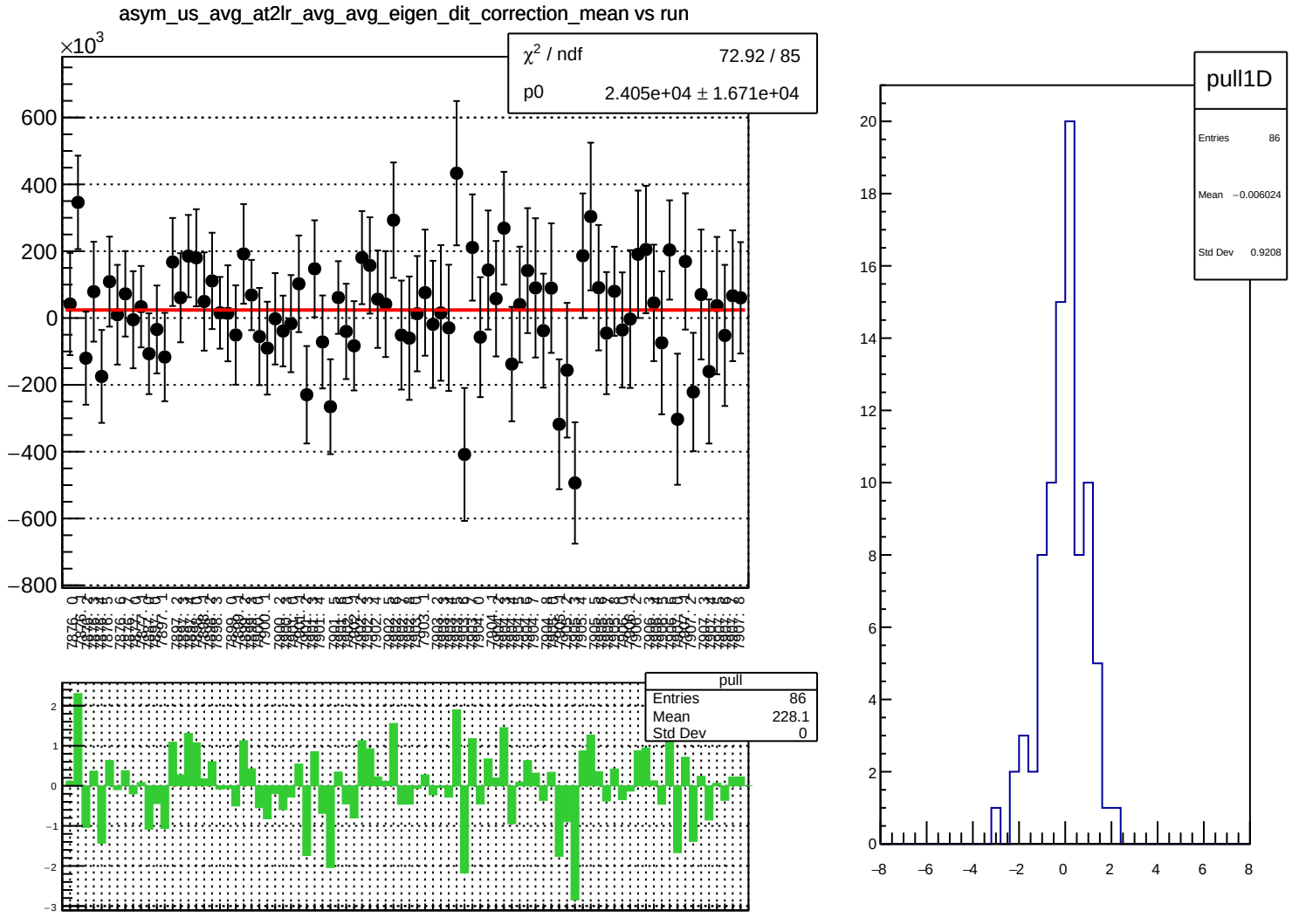

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.92 / 85
p0 2.405e+04 ± 1.671e+04
600
400
200
0
−200
−400
−600
−800
pull
Entries 86
Mean 228.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.006024
Std Dev 0.9208
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

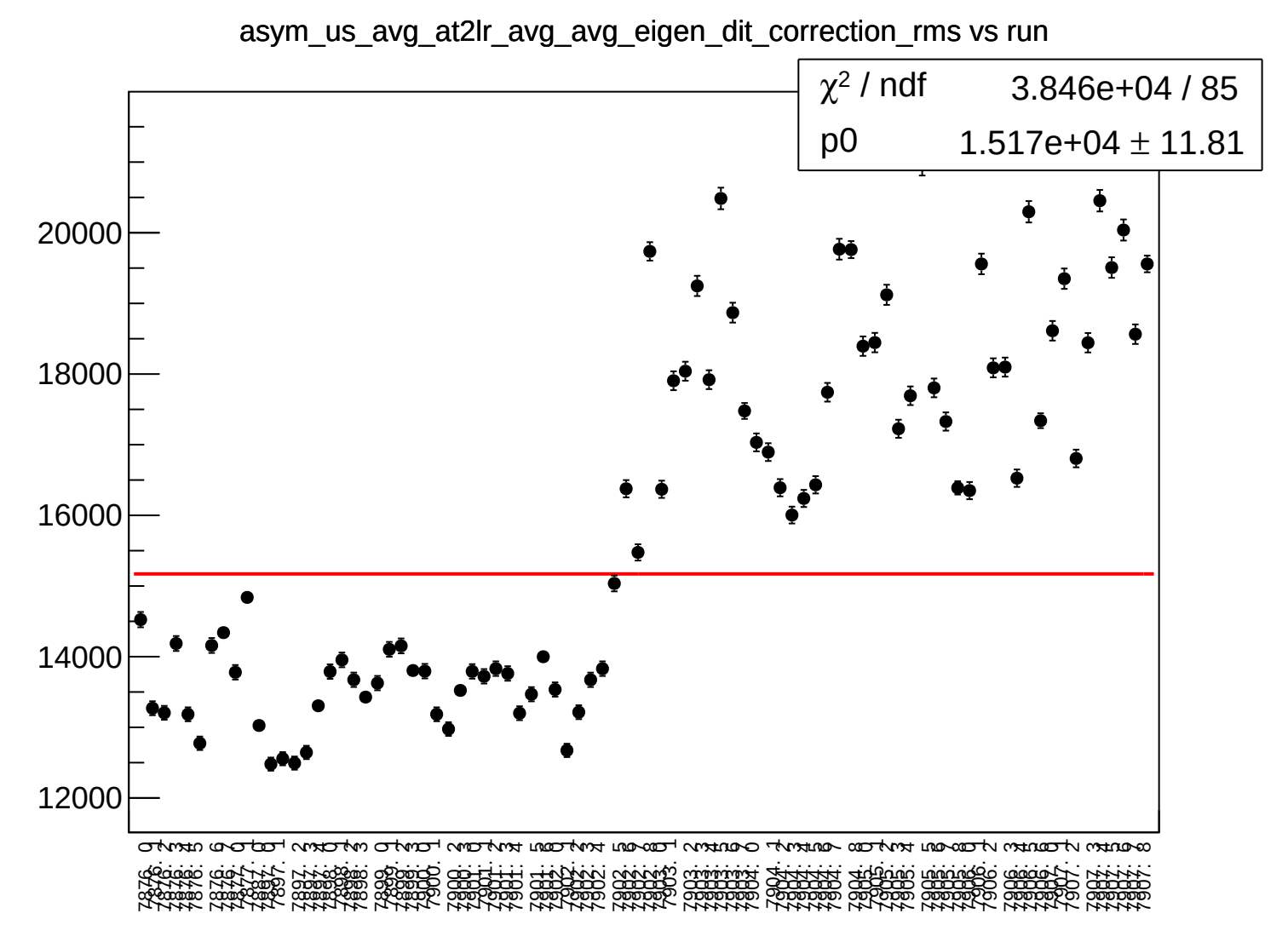

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.846e+04 / 85
p0 1.517e+04 ± 11.81
20000
18000
16000
14000
12000

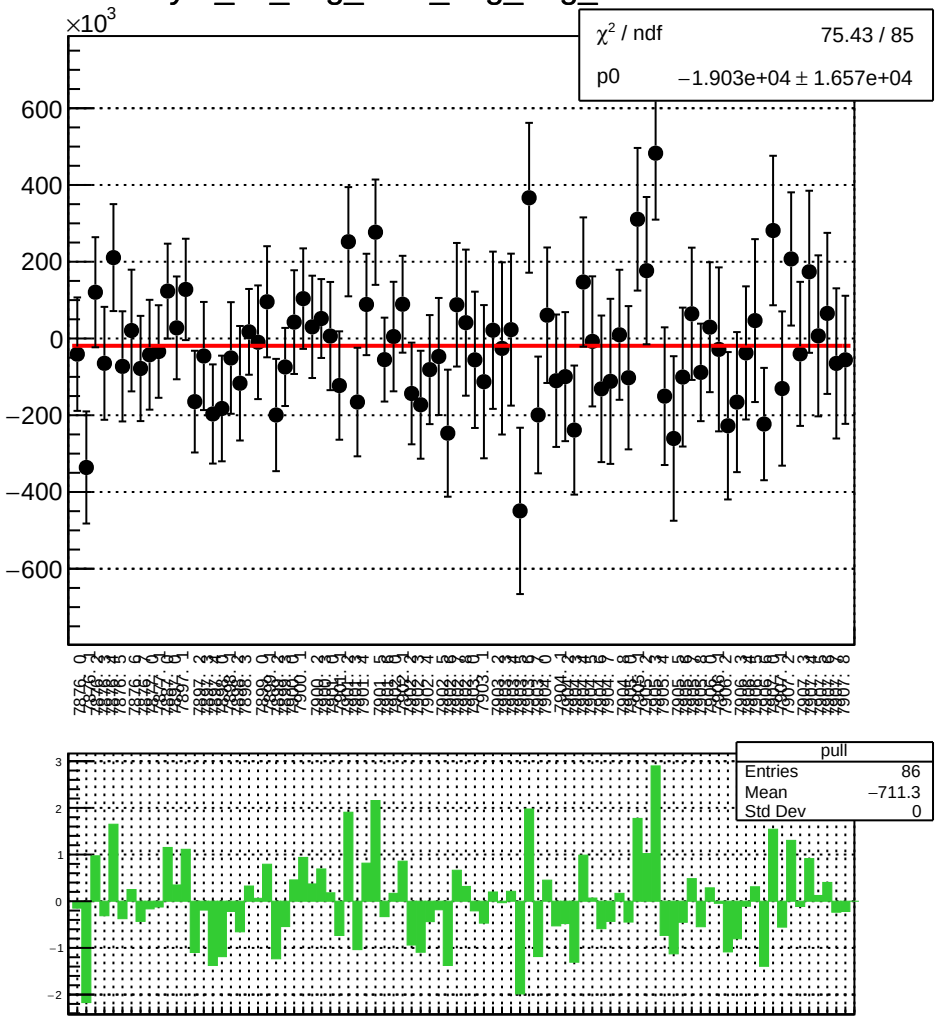

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 75.53 / 85
p0 2605 ± 2640
pull
Entries 86
Mean −312.9
Std Dev 0

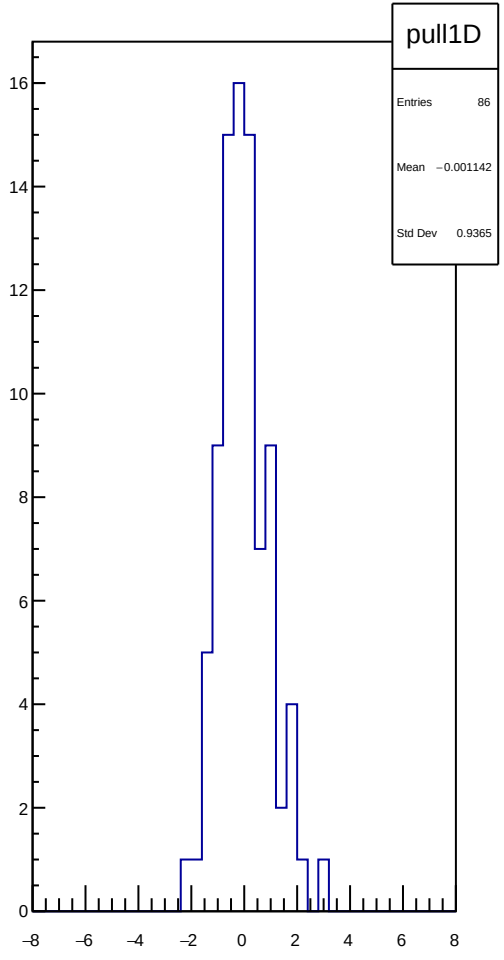

pull1D
Entries 86
Mean 0.003669
Std Dev 0.9371

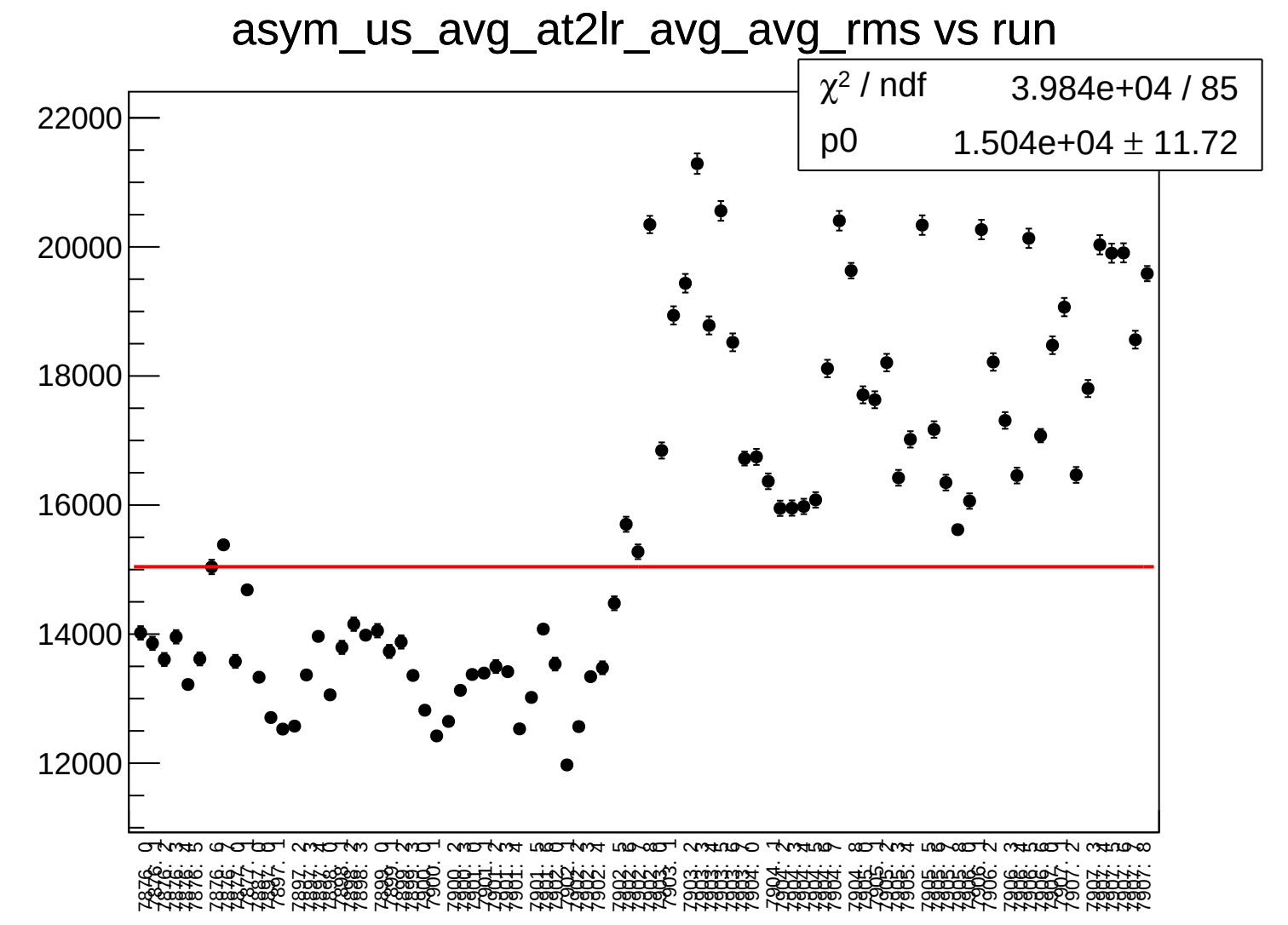

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3629 / 85
p0 2423 ± 1.867
3200
3000
2800
2600
2400
2200

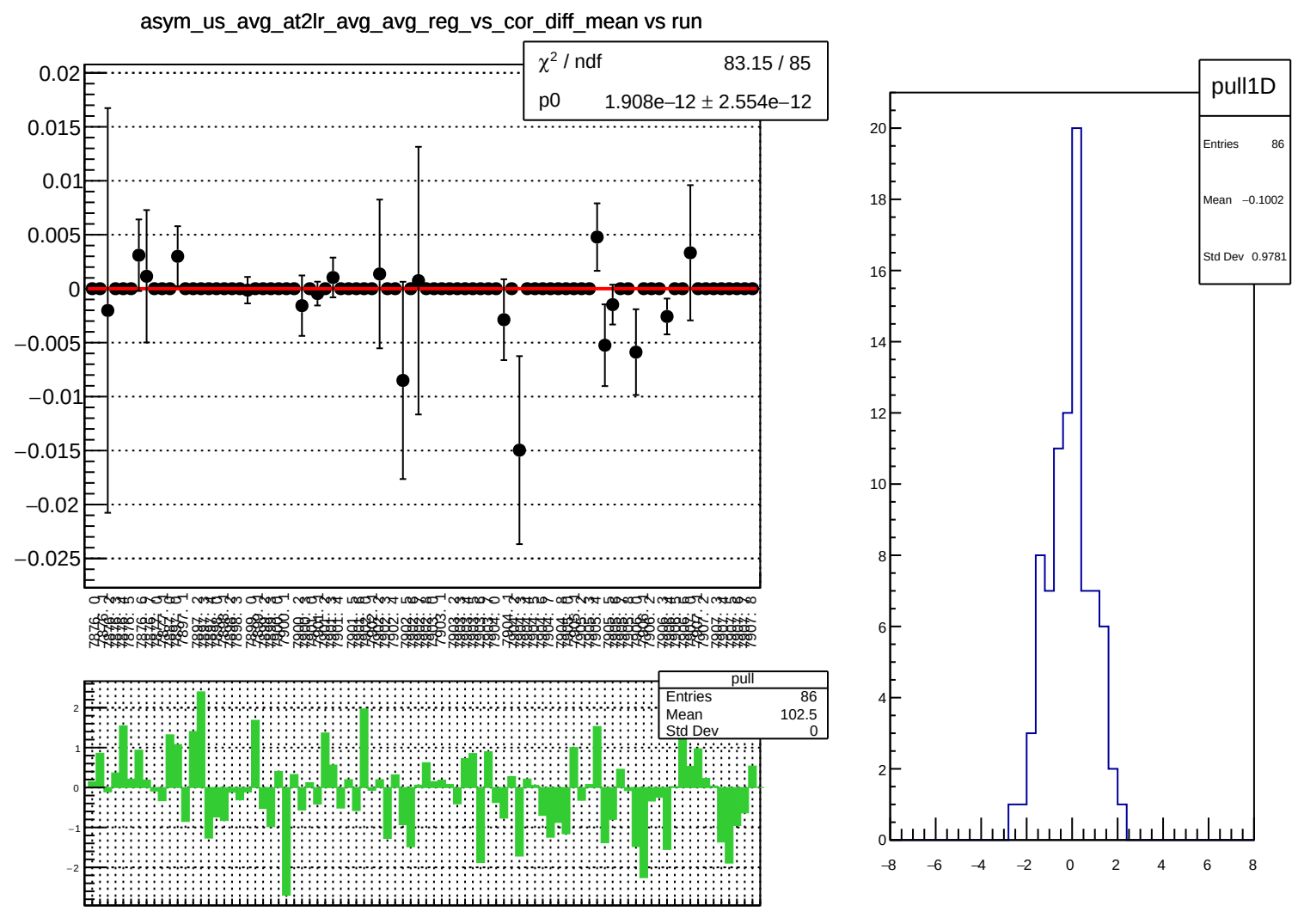

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.92 / 85
p0 2.405e+04 ± 1.671e+04
pull
Entries 86
Mean 228.1
Std Dev 0
pull1D
Entries 86
Mean −0.006024
Std Dev 0.9208

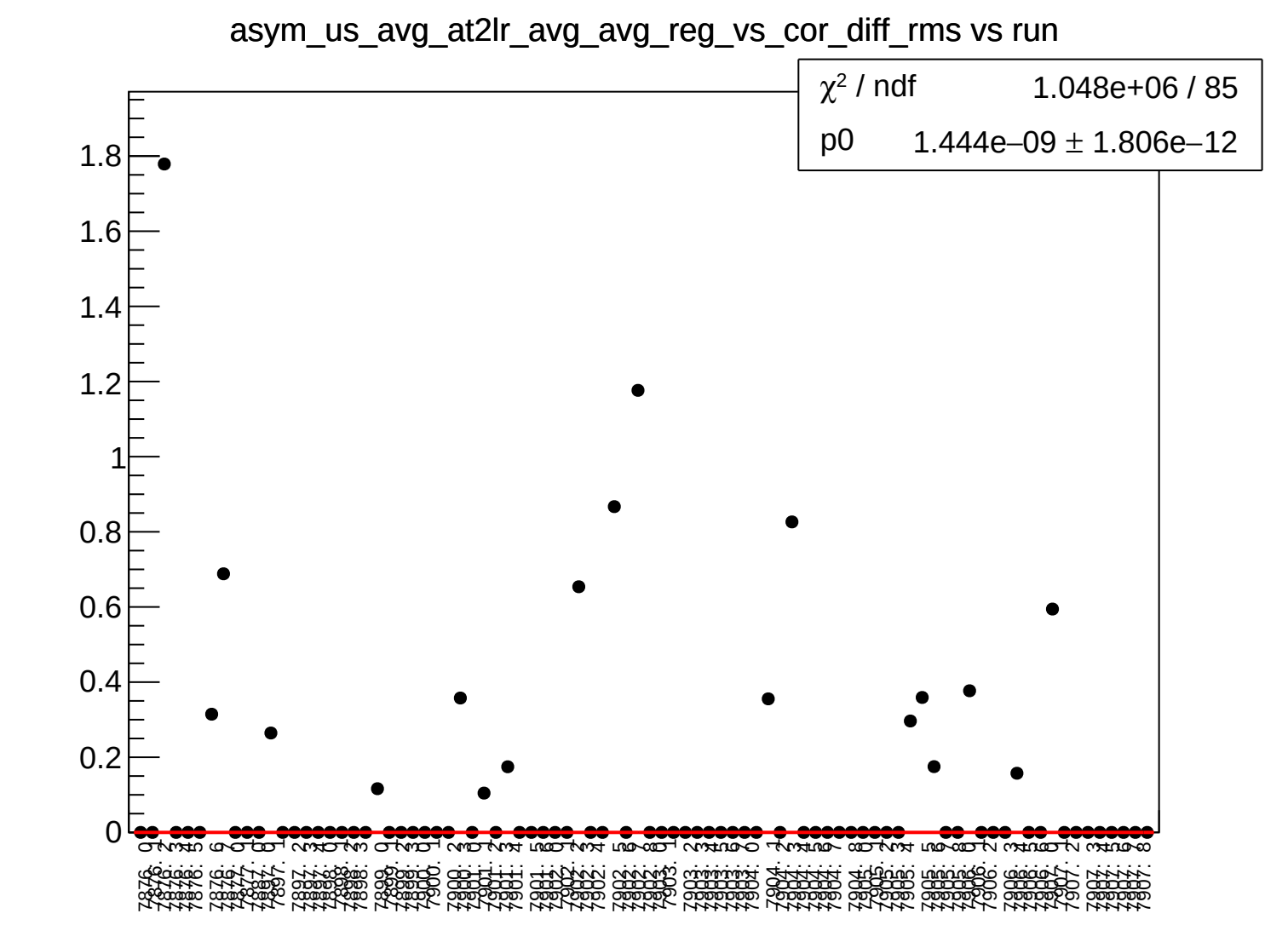

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.846e+04 / 85
p0 1.517e+04 ± 11.81
20000
18000
16000
14000
12000

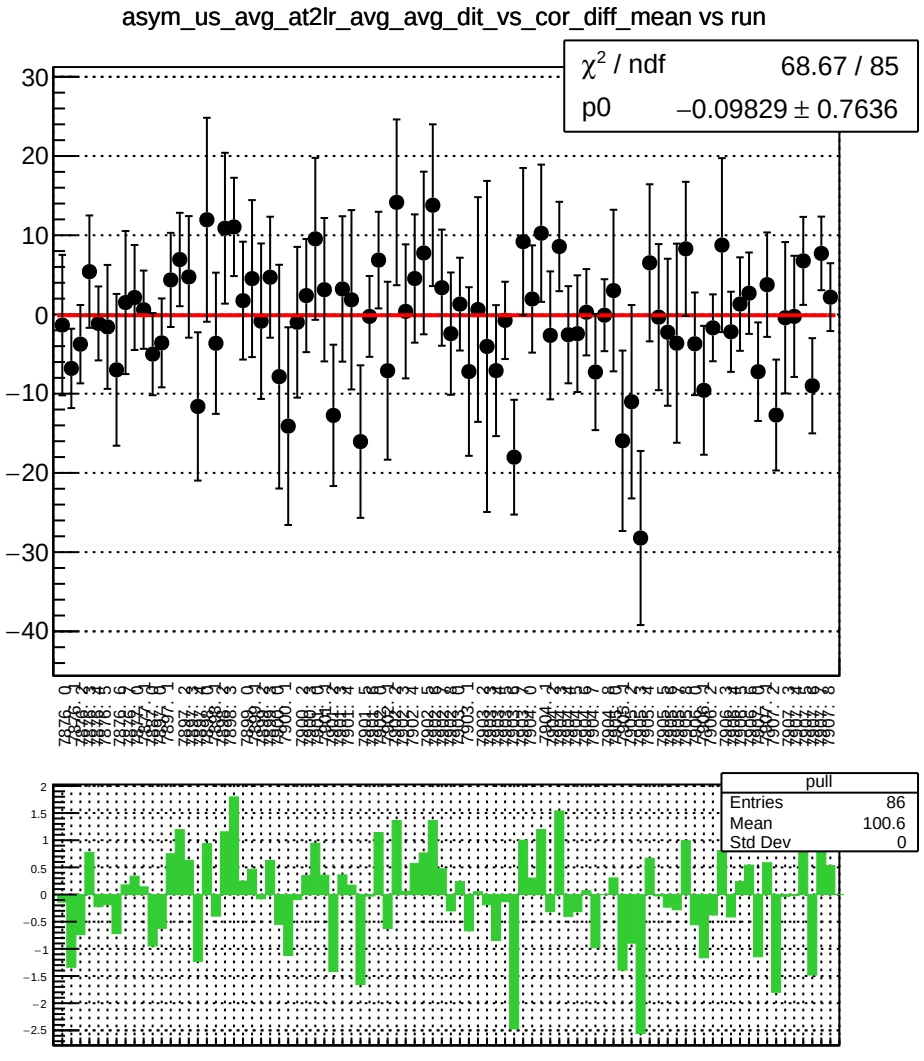

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 75.43 / 85
p0 −1.903e+04 ± 1.657e+04
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean −711.3
Std Dev 0
3
2
1
0
−1
−2

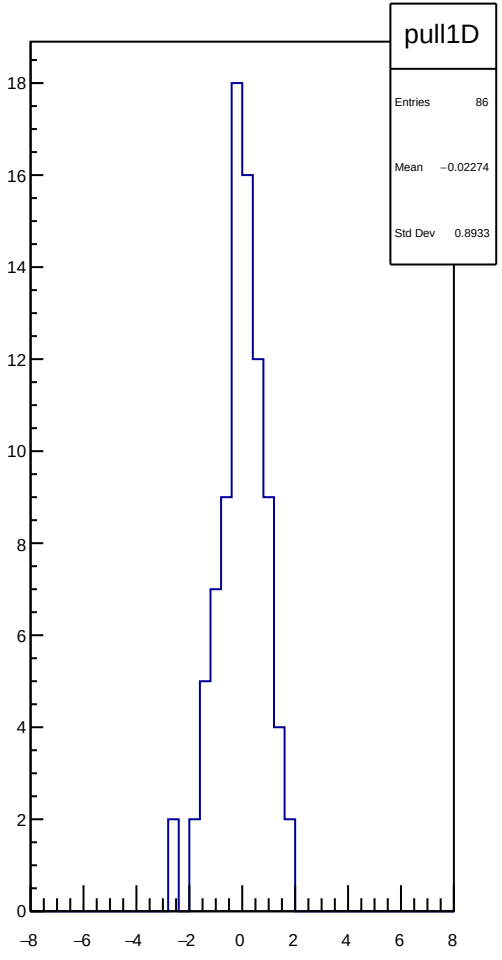

pull1D
Entries 86
Mean −0.001142
Std Dev 0.9365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

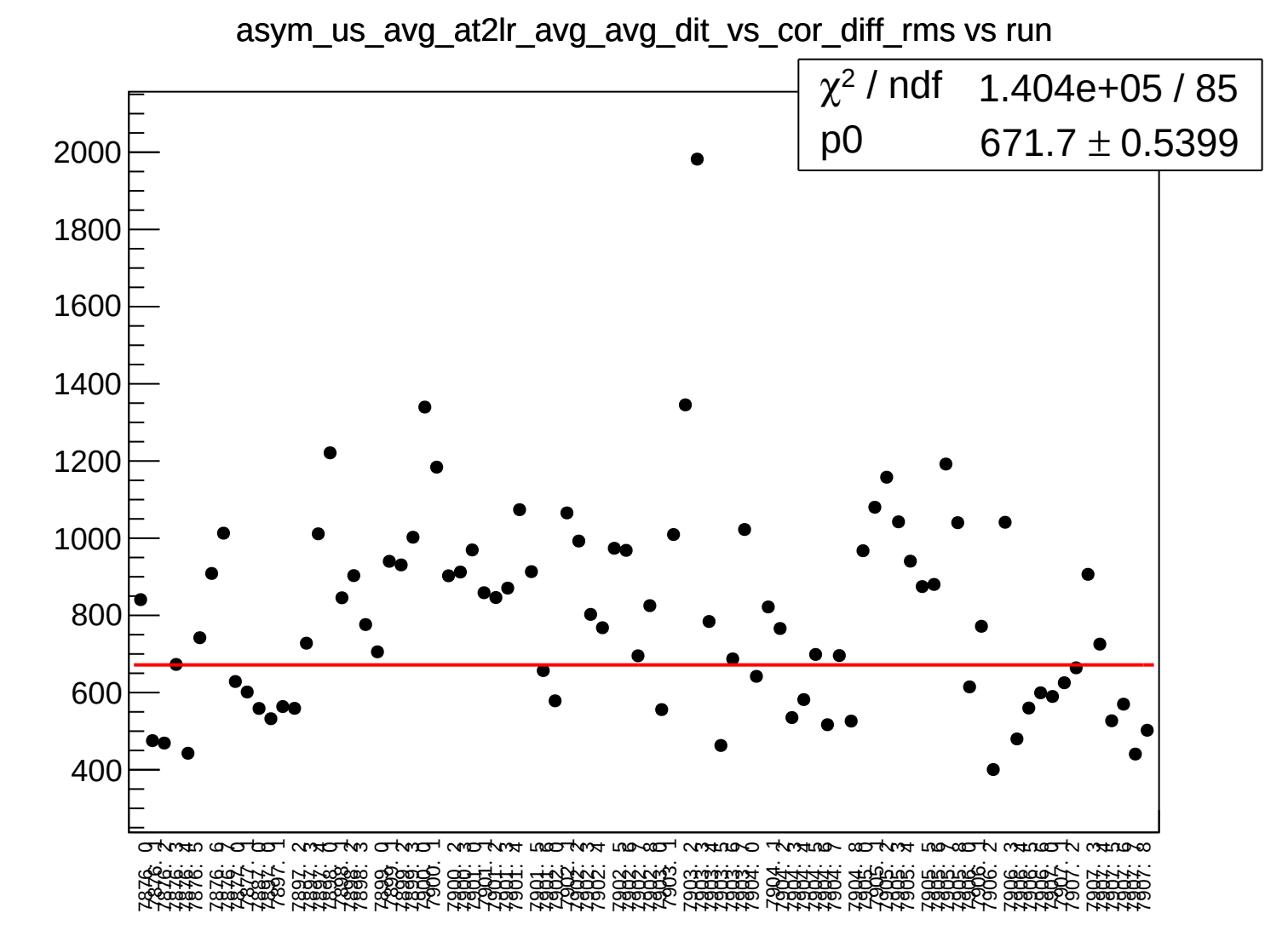

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3.984e+04 / 85
p0 1.504e+04 ± 11.72
22000
20000
18000
16000
14000
12000

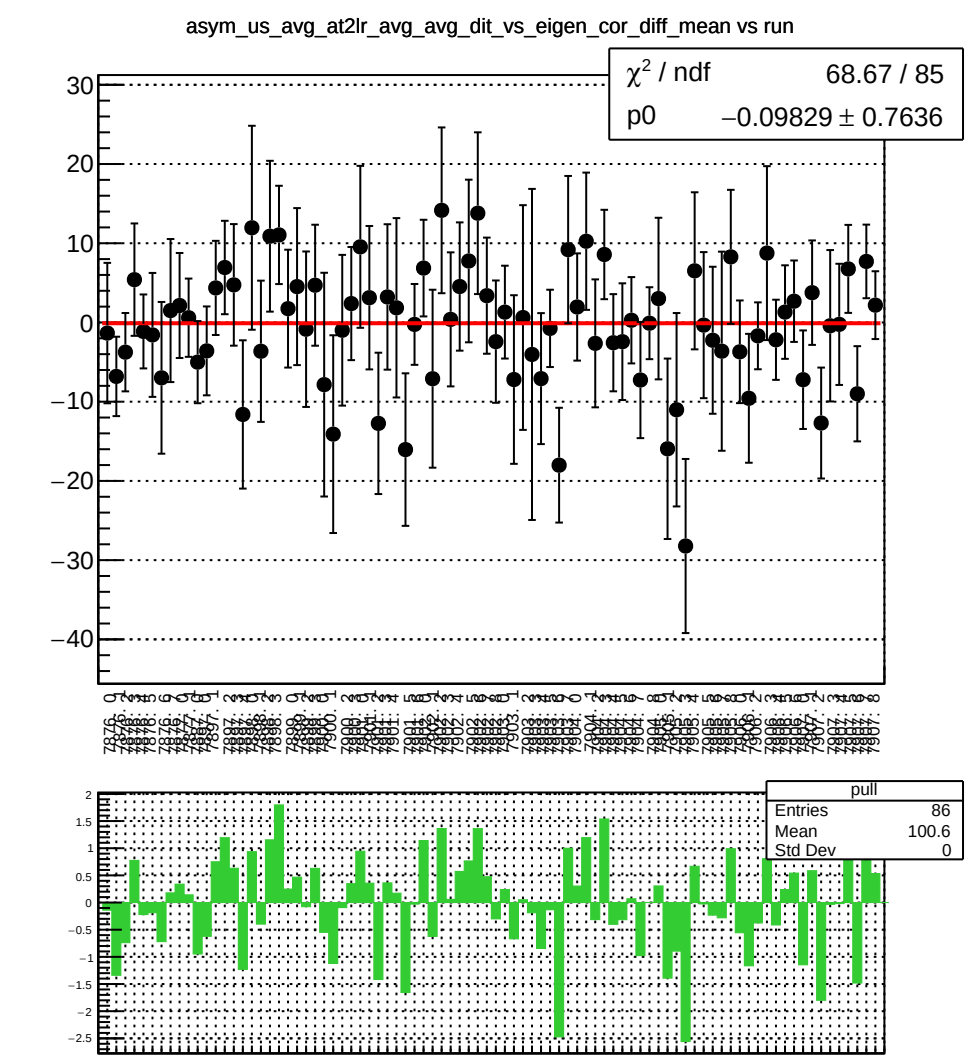

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.15 / 85
p0 1.908e−12 ± 2.554e−12
pull
Entries 86
Mean 102.5
Std Dev 0
pull1D
Entries 86
Mean −0.1002
Std Dev 0.9781

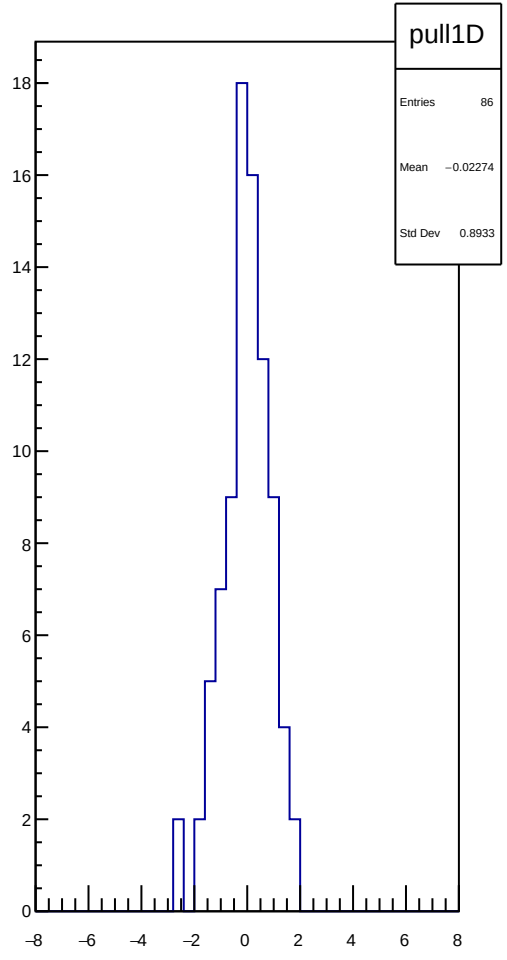

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.048e+06 / 85
p0 1.444e−09 ± 1.806e−12
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

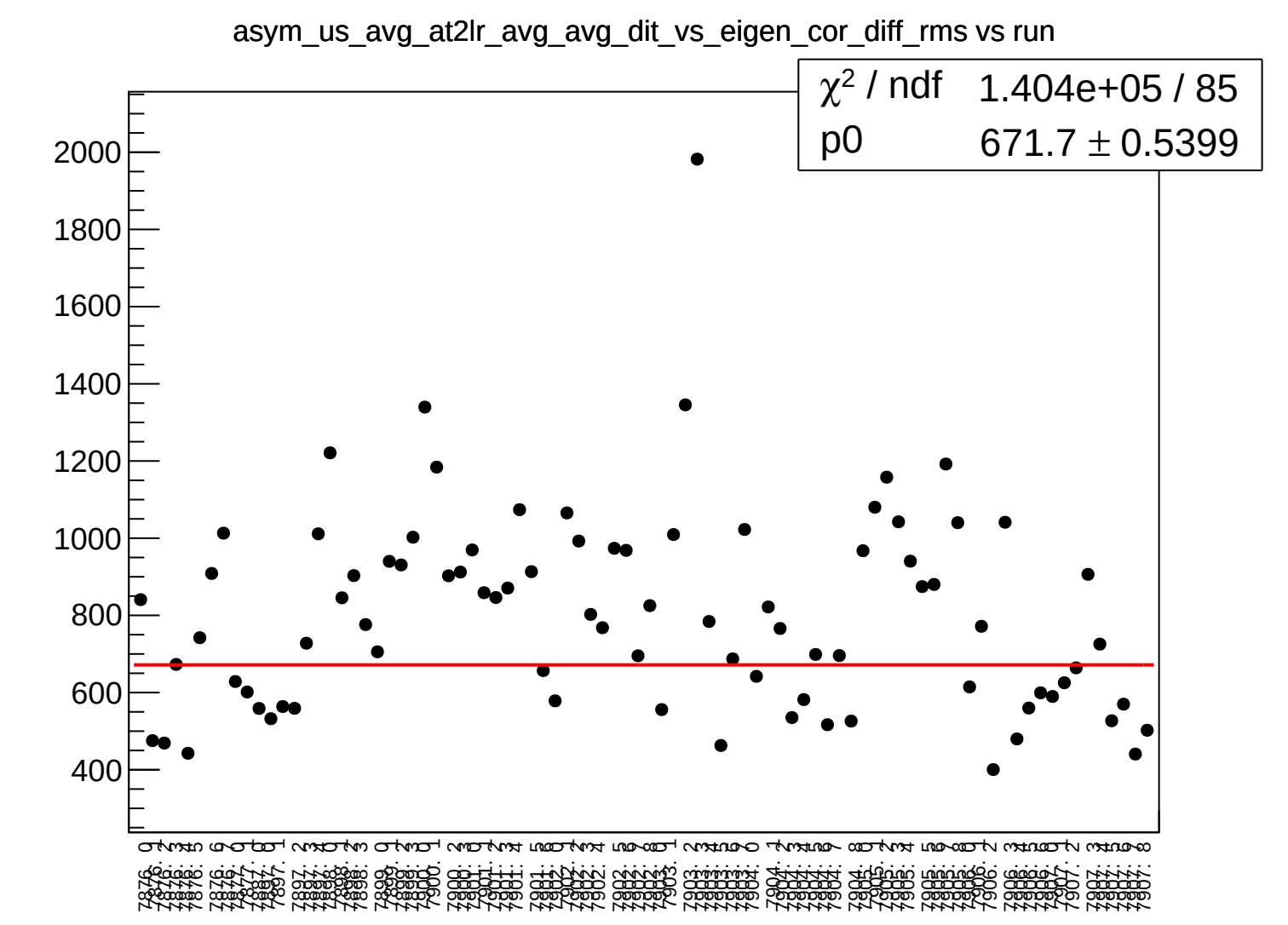

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.67 / 85
p0 −0.09829 ± 0.7636
pull
Entries 86
Mean 100.6
Std Dev 0

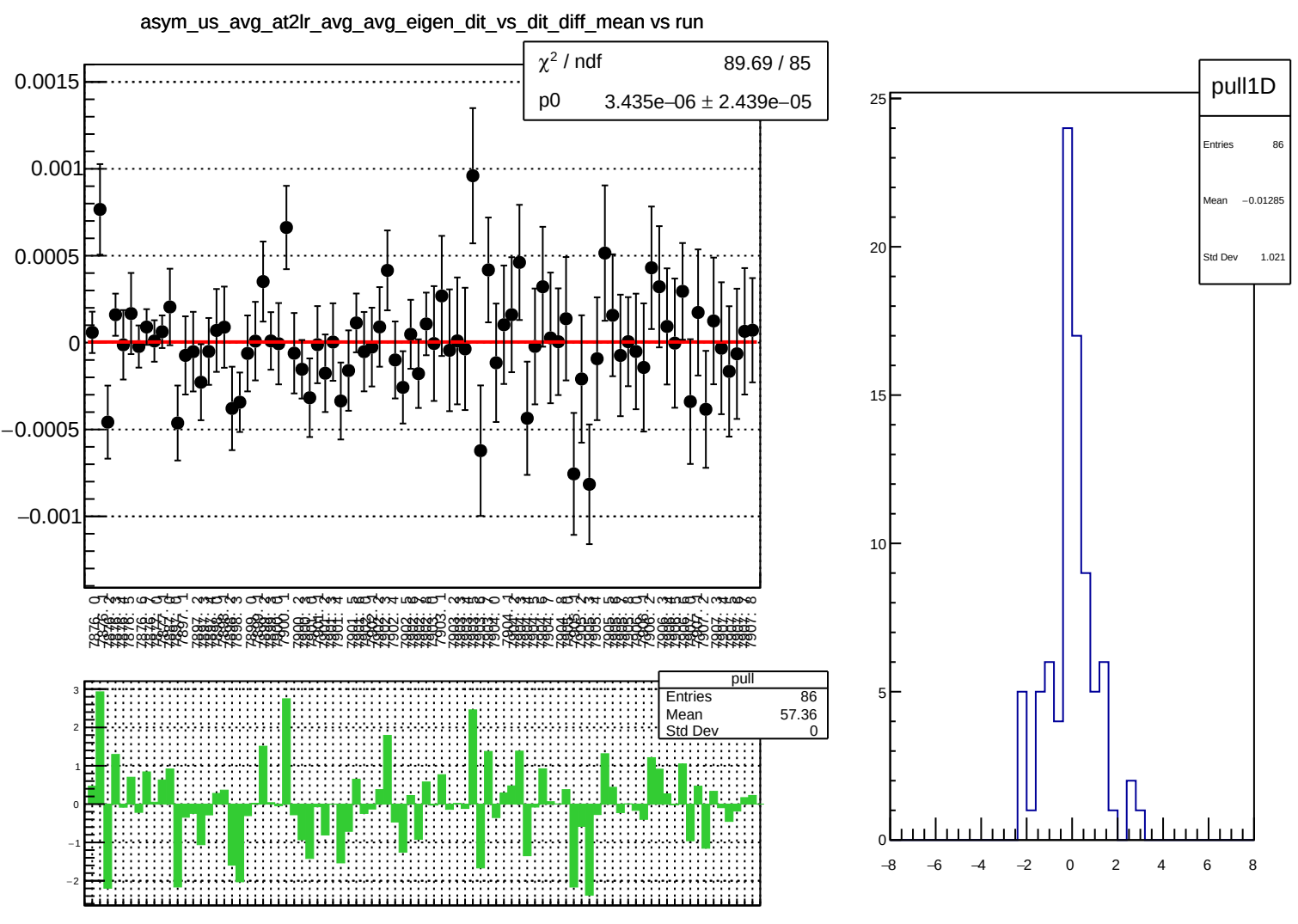

pull1D
Entries 86
Mean −0.02274
Std Dev 0.8933

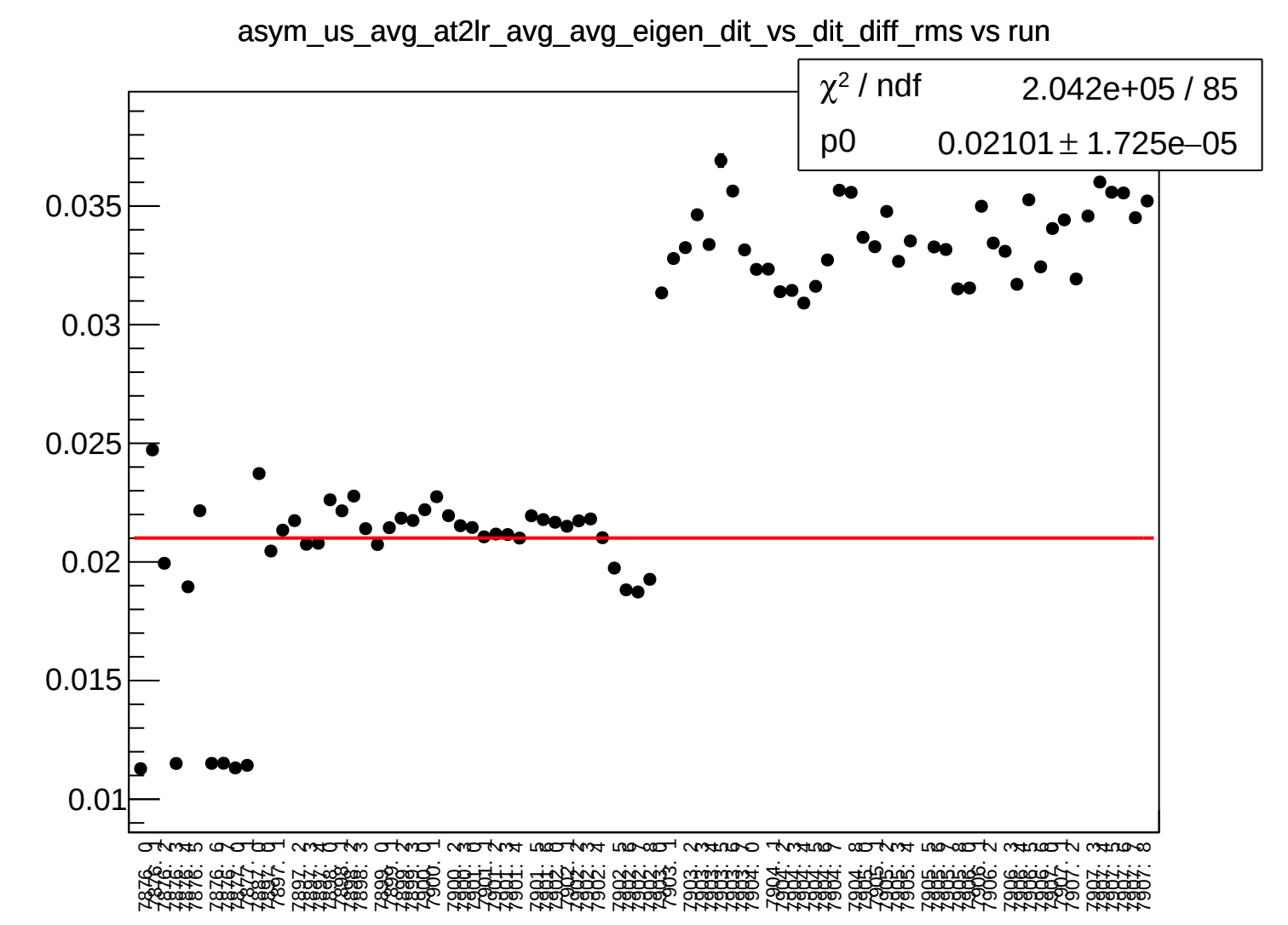

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.404e+05 / 85
p0 671.7 ± 0.5399
2000
1800
1600
1400
1200
1000
800
600
400

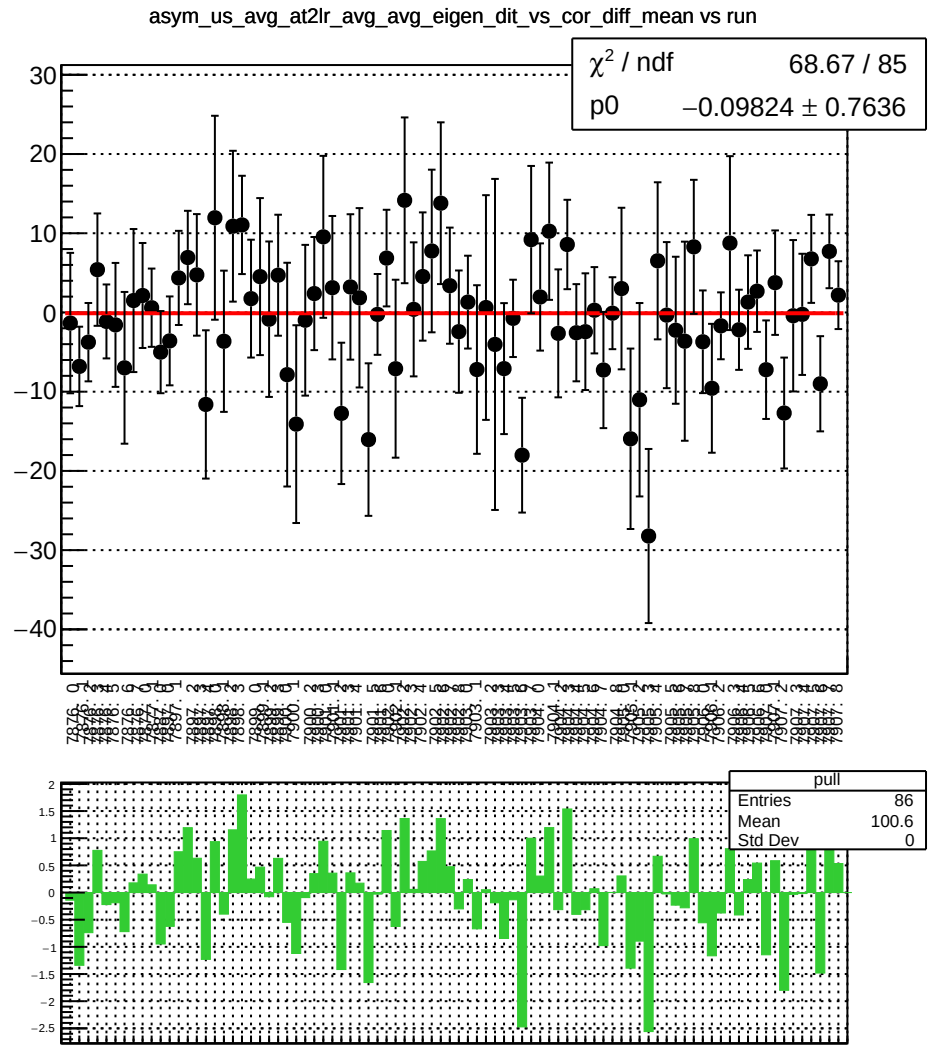

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.67 / 85
p0 −0.09829 ± 0.7636
pull
Entries 86
Mean 100.6
Std Dev 0

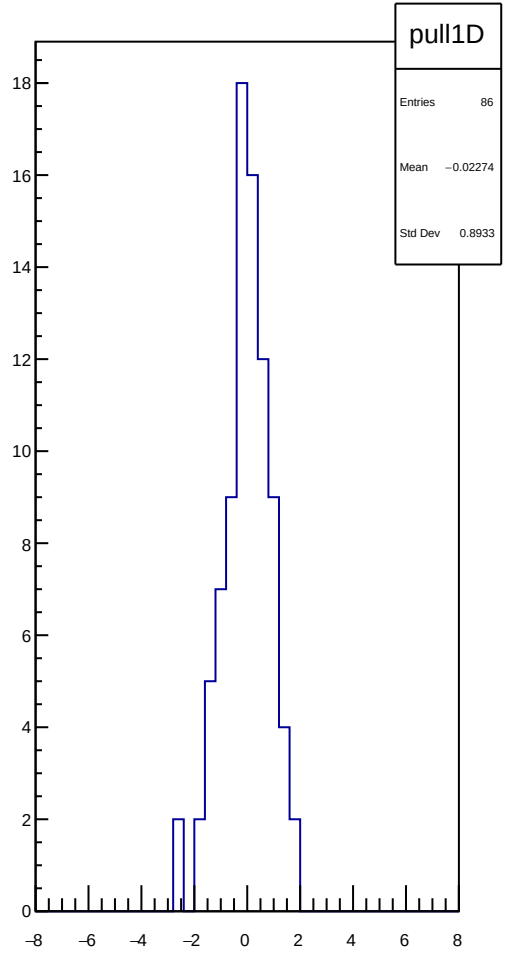

pull1D
Entries 86
Mean −0.02274
Std Dev 0.8933

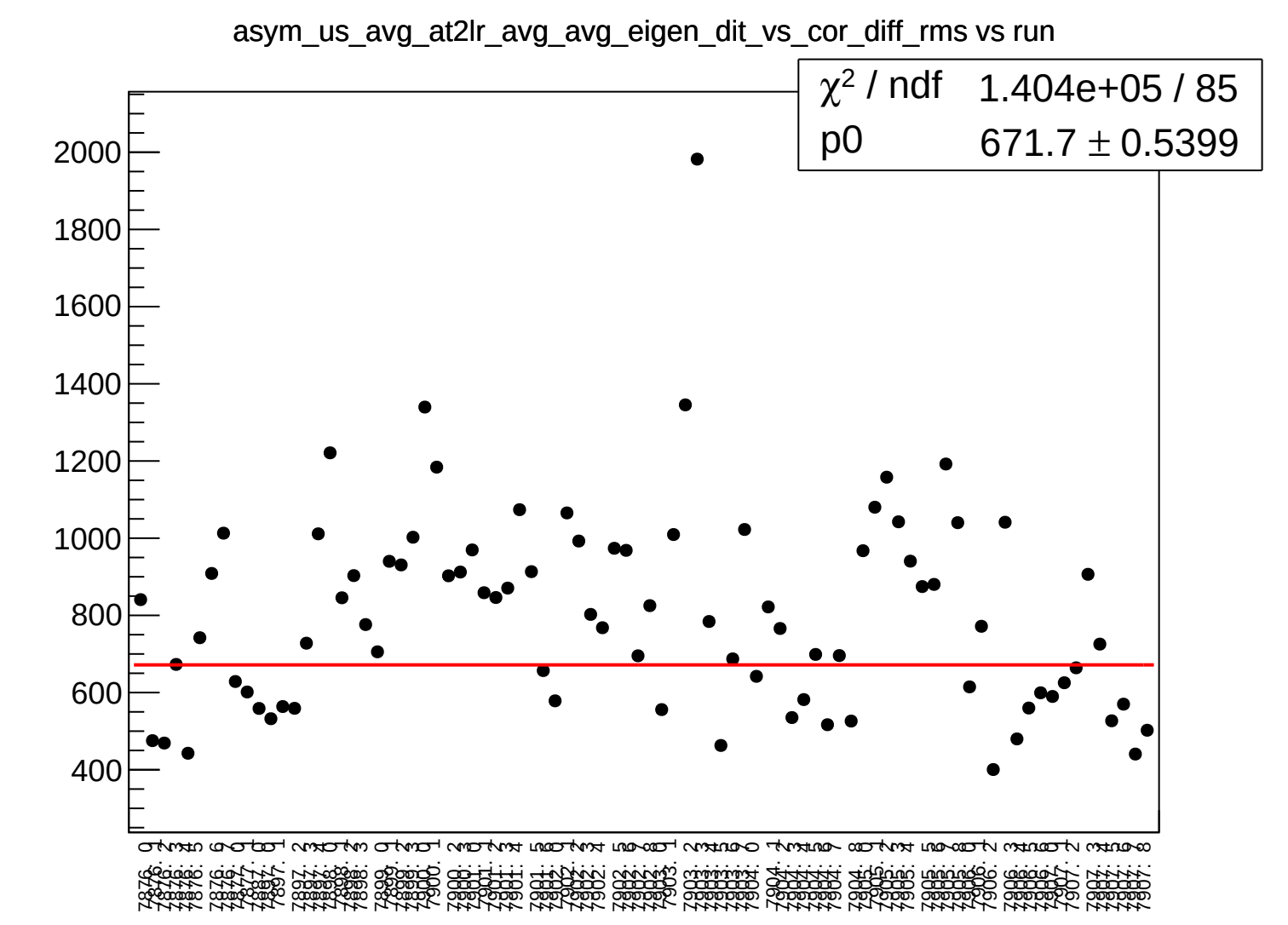

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.404e+05 / 85
p0 671.7 ± 0.5399
2000
1800
1600
1400
1200
1000
800
600
400

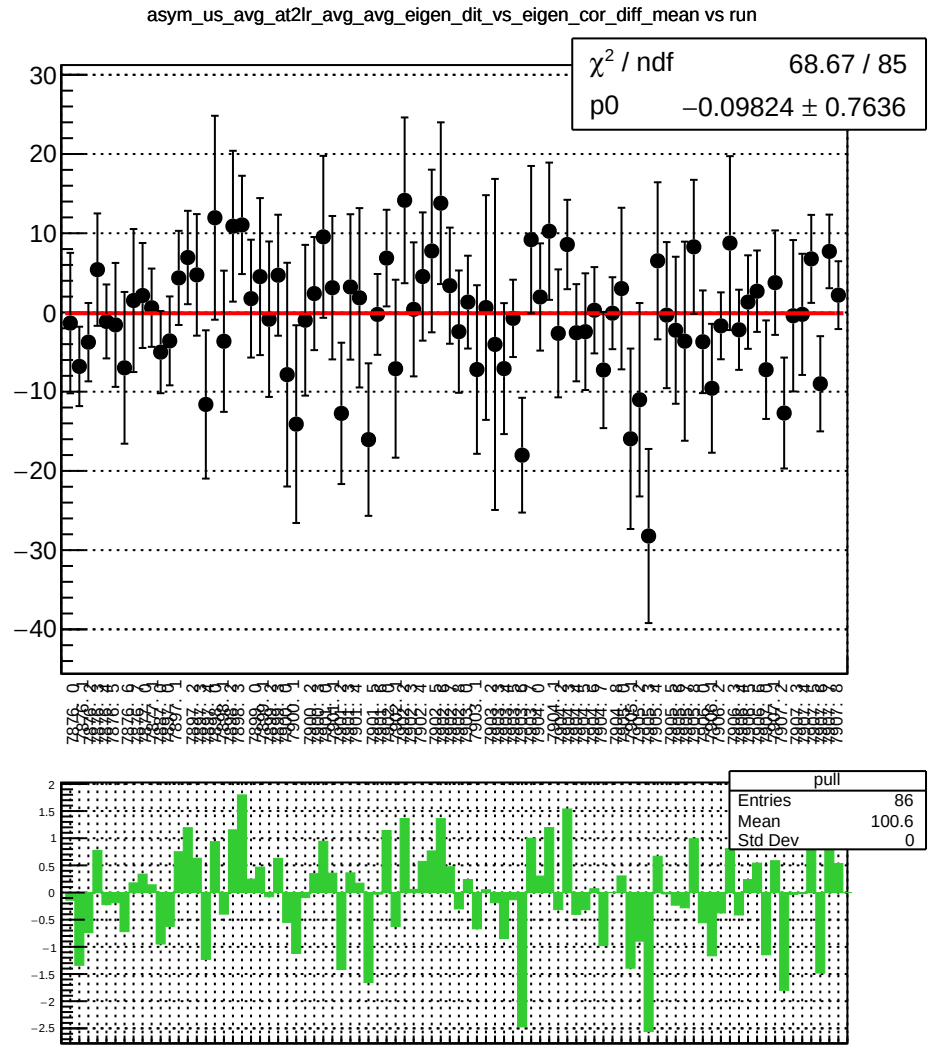

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.69 / 85
p0 3.435e−06 ± 2.439e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 57.36
Std Dev 0
pull1D
Entries 86
Mean −0.01285
Std Dev 1.021
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

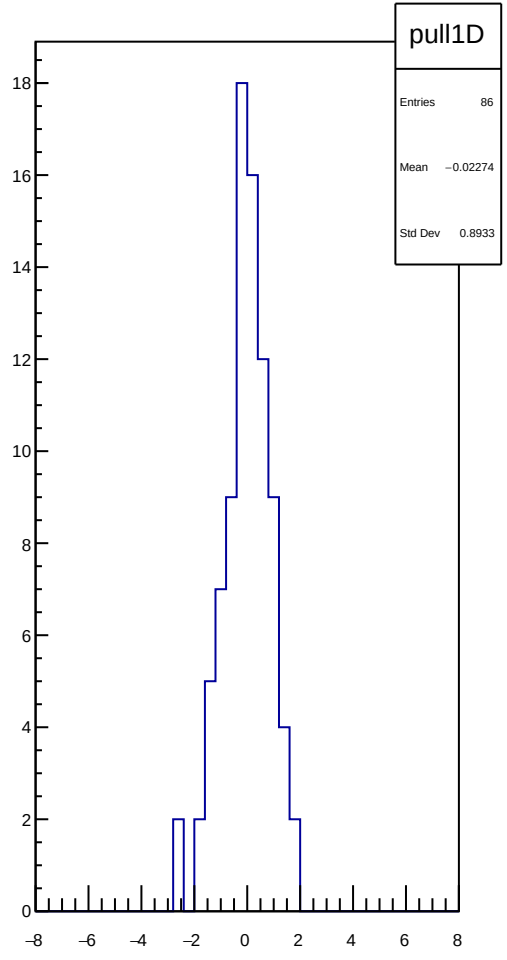

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.042e+05 / 85
p0 0.02101 ± 1.725e−05
0.035
0.03
0.025
0.02
0.015
0.01

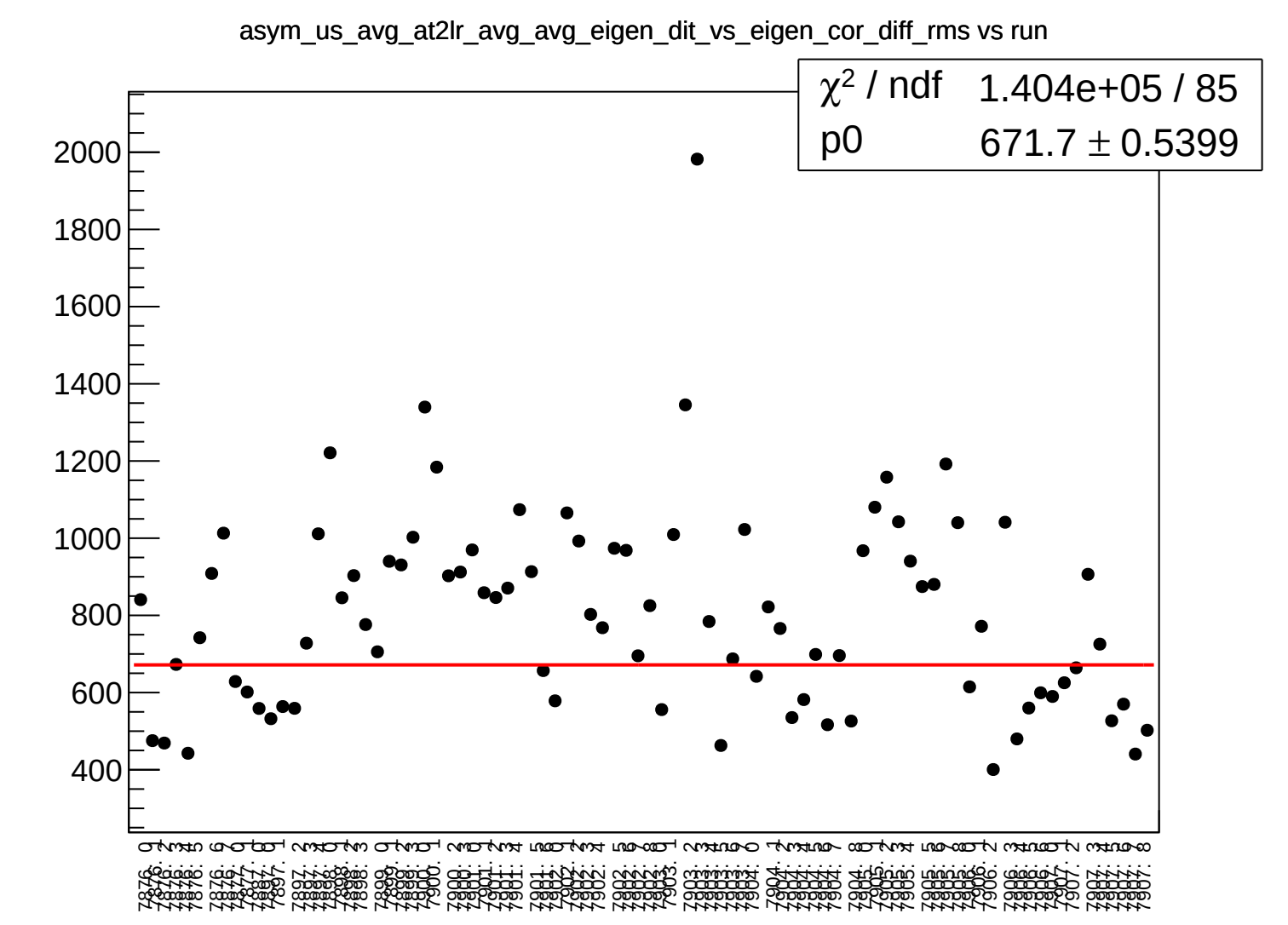

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.67 / 85
p0 −0.09824 ± 0.7636
pull
Entries 86
Mean 100.6
Std Dev 0

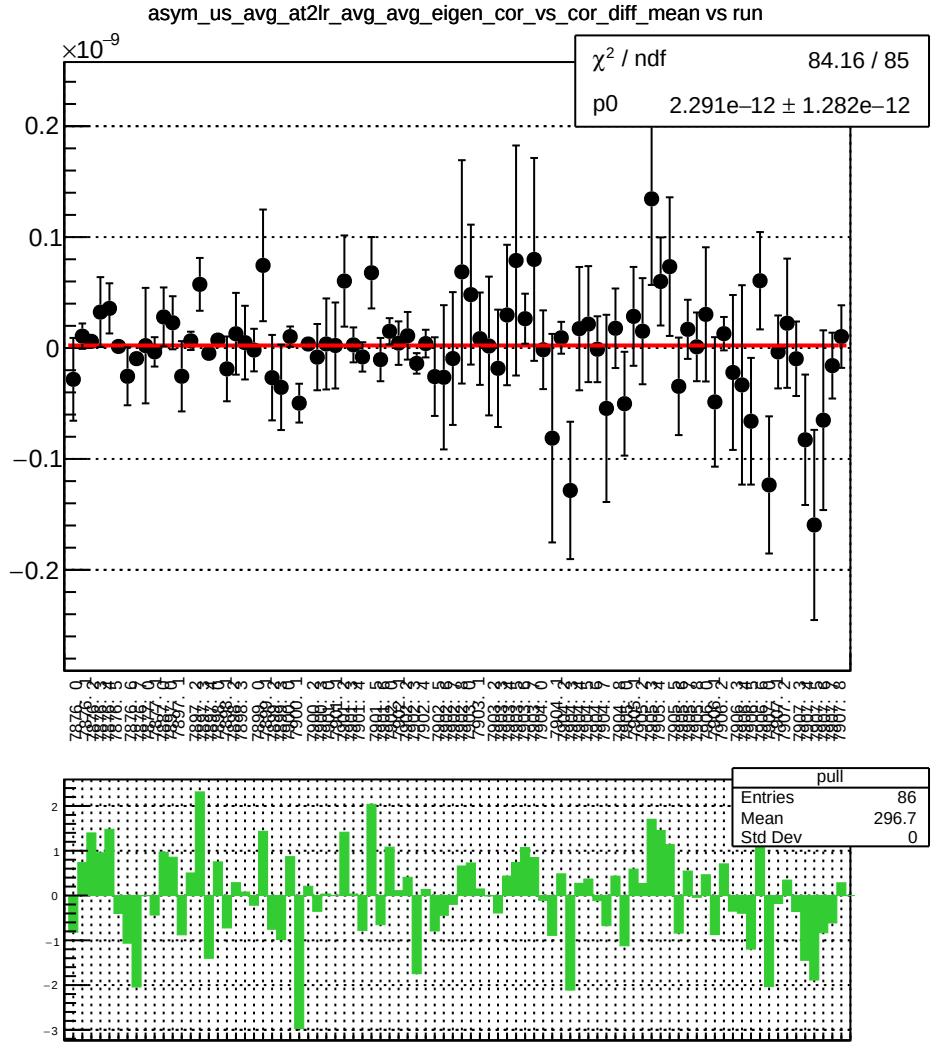

pull1D
Entries 86
Mean −0.02274
Std Dev 0.8933

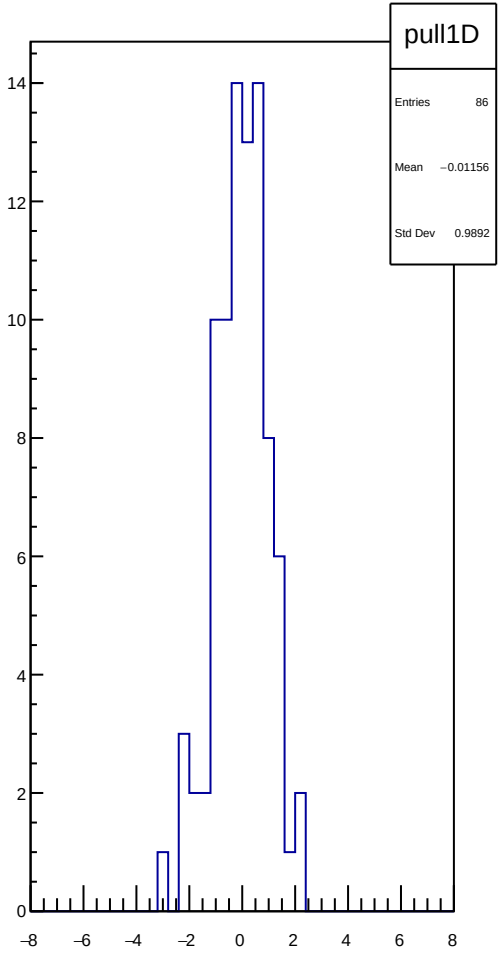

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.404e+05 / 85
p0 671.7 ± 0.5399
2000
1800
1600
1400
1200
1000
800
600
400

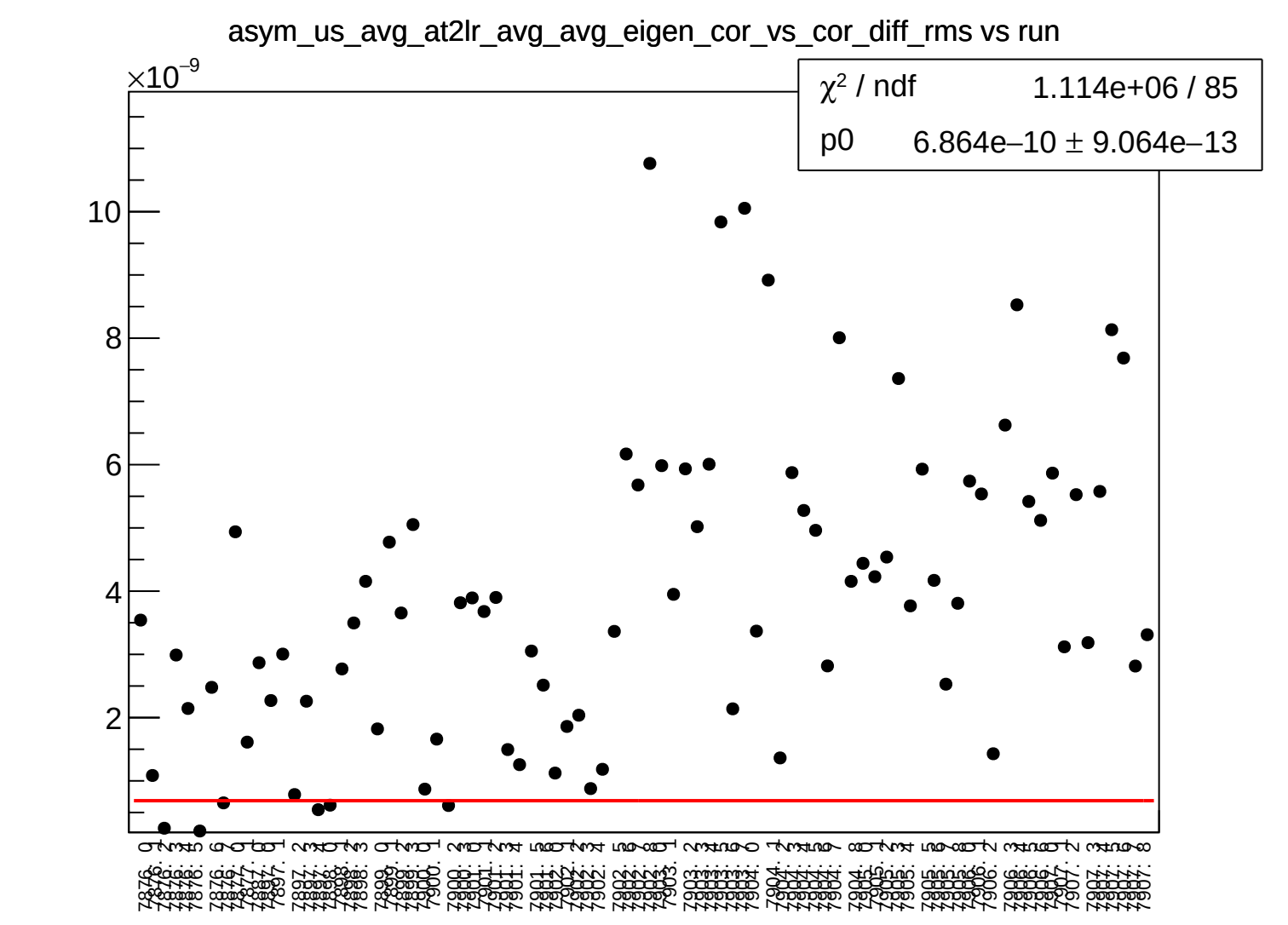

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.67 / 85
p0 −0.09824 ± 0.7636
pull
Entries 86
Mean 100.6
Std Dev 0

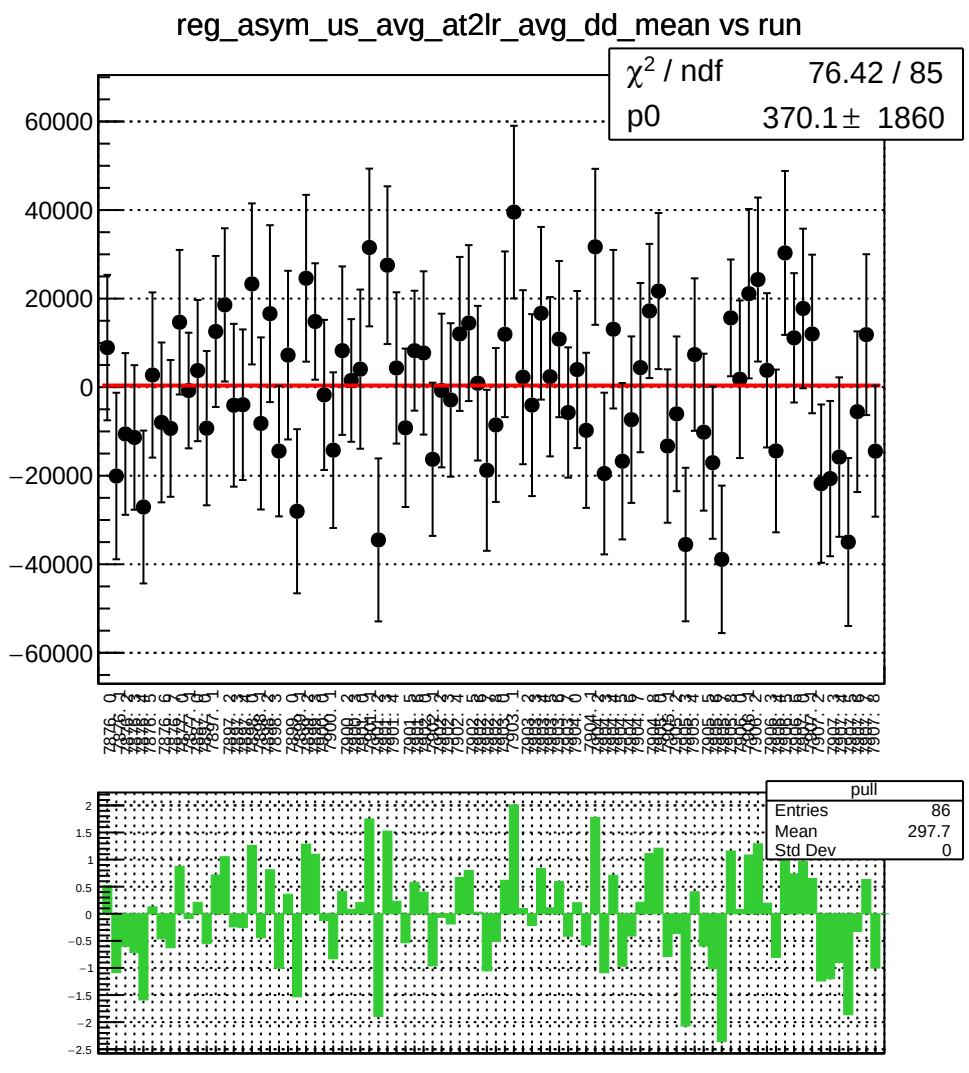

pull1D
Entries 86
Mean −0.02274
Std Dev 0.8933

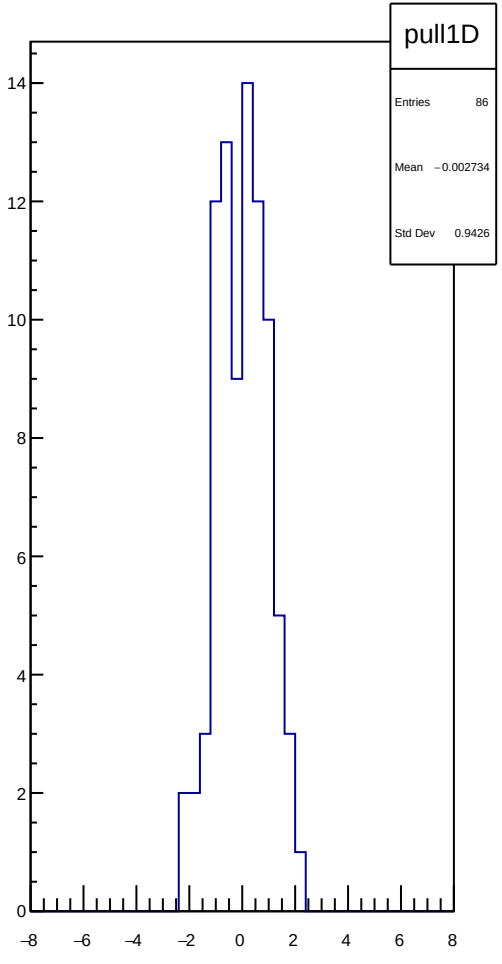

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.404e+05 / 85
p0 671.7 ± 0.5399
2000
1800
1600
1400
1200
1000
800
600
400

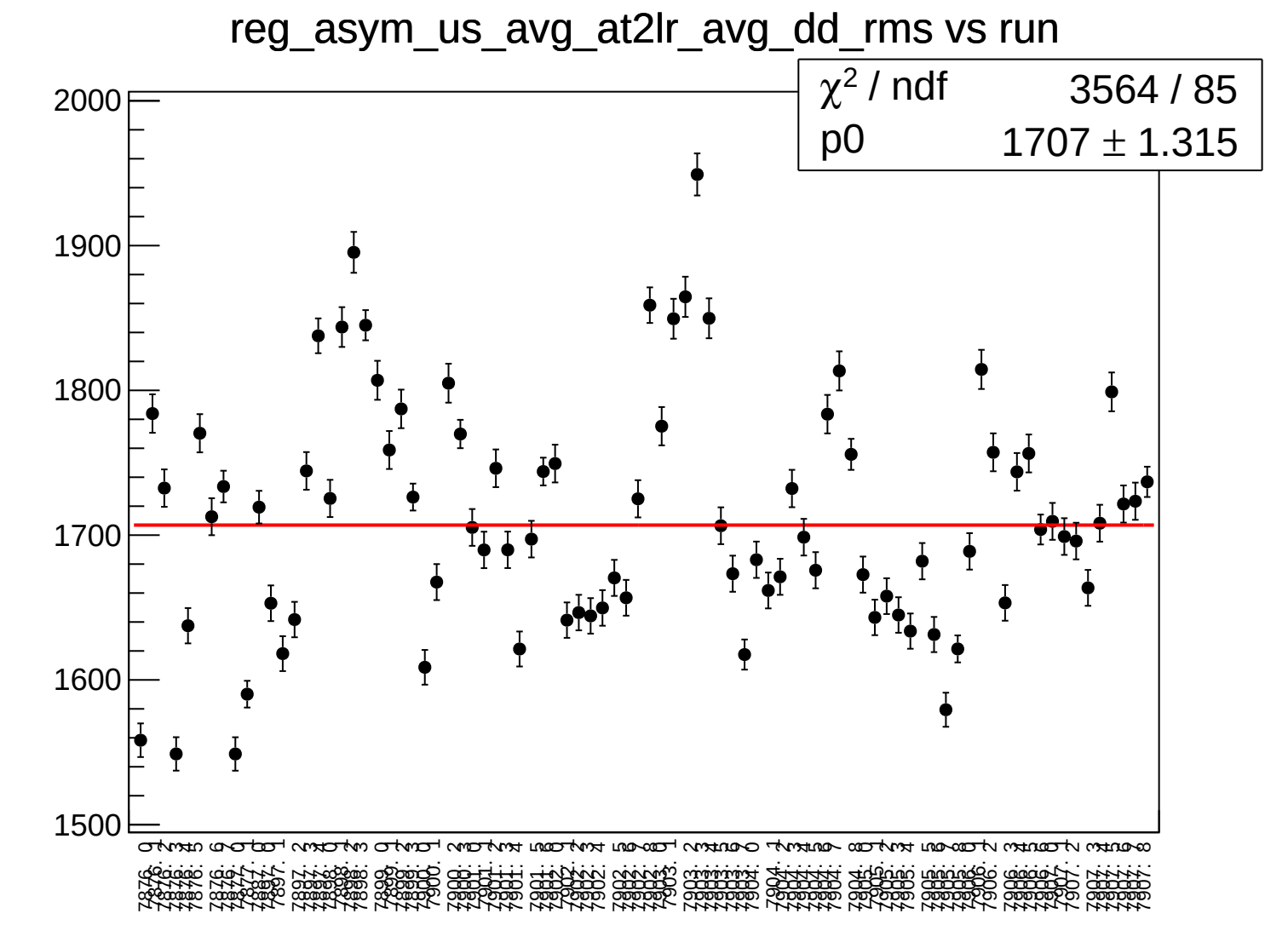

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 84.16 / 85
p0 2.291e−12 ± 1.282e−12
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean 296.7
Std Dev 0
2
1
0
−1
−2
−3

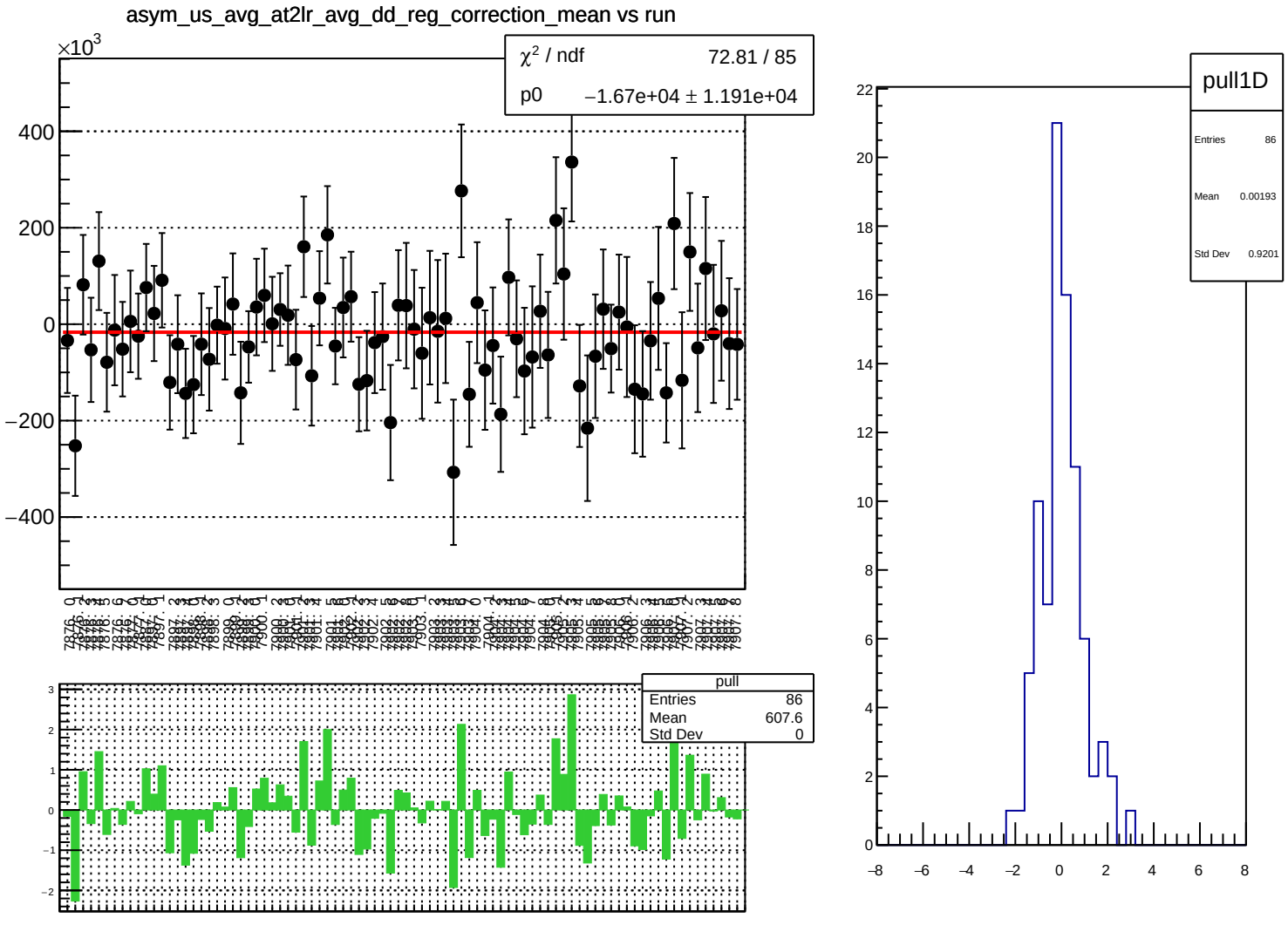

pull1D
Entries 86
Mean −0.01156
Std Dev 0.9892
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

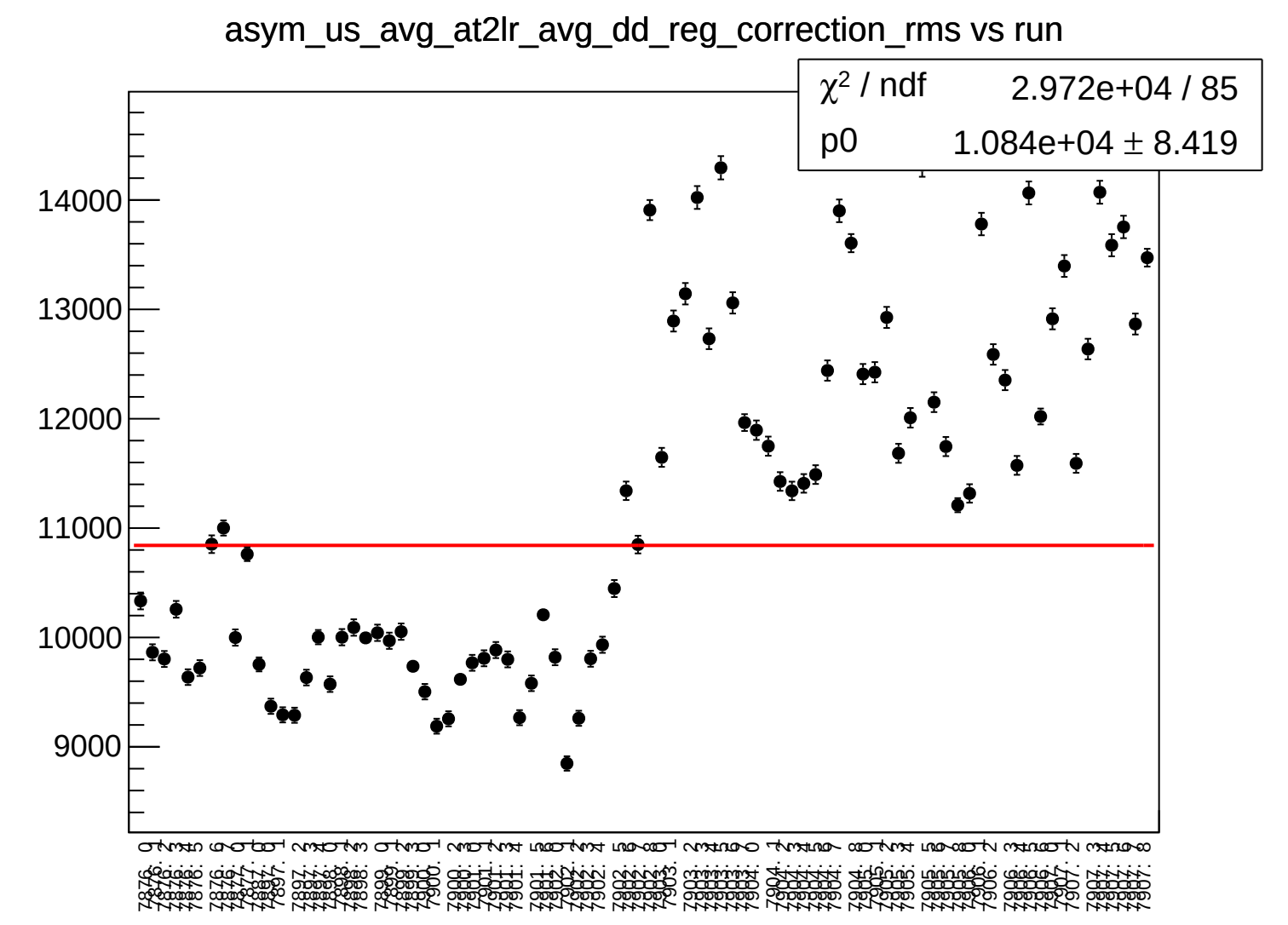

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.114e+06 / 85
p0 6.864e−10 ± 9.064e−13
10
8
6
4
2

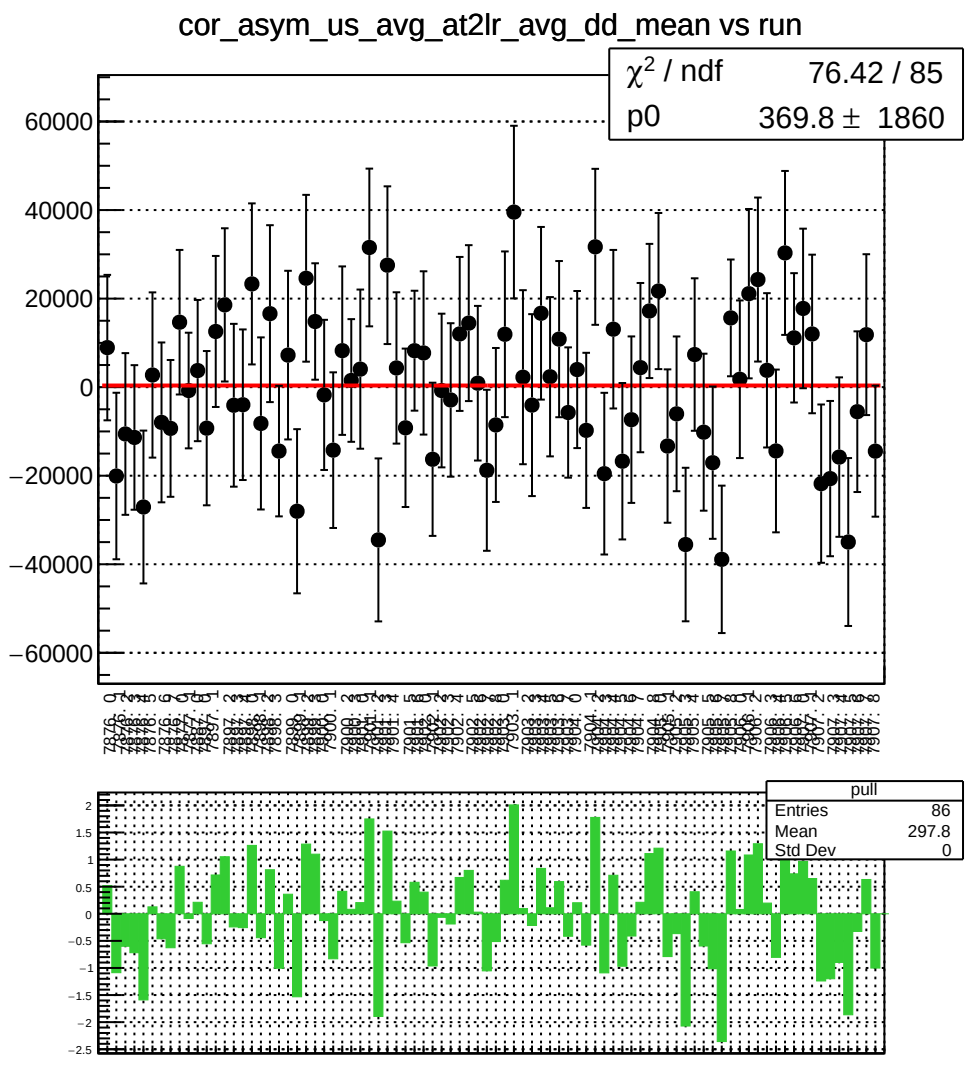

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 76.42 / 85
p0 370.1 ± 1860
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 297.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

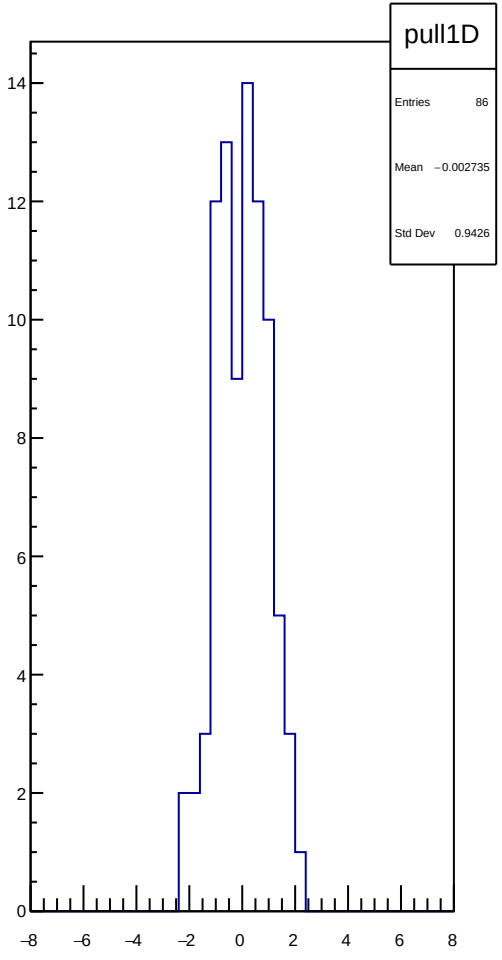

pull1D
Entries 86
Mean −0.002734
Std Dev 0.9426
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

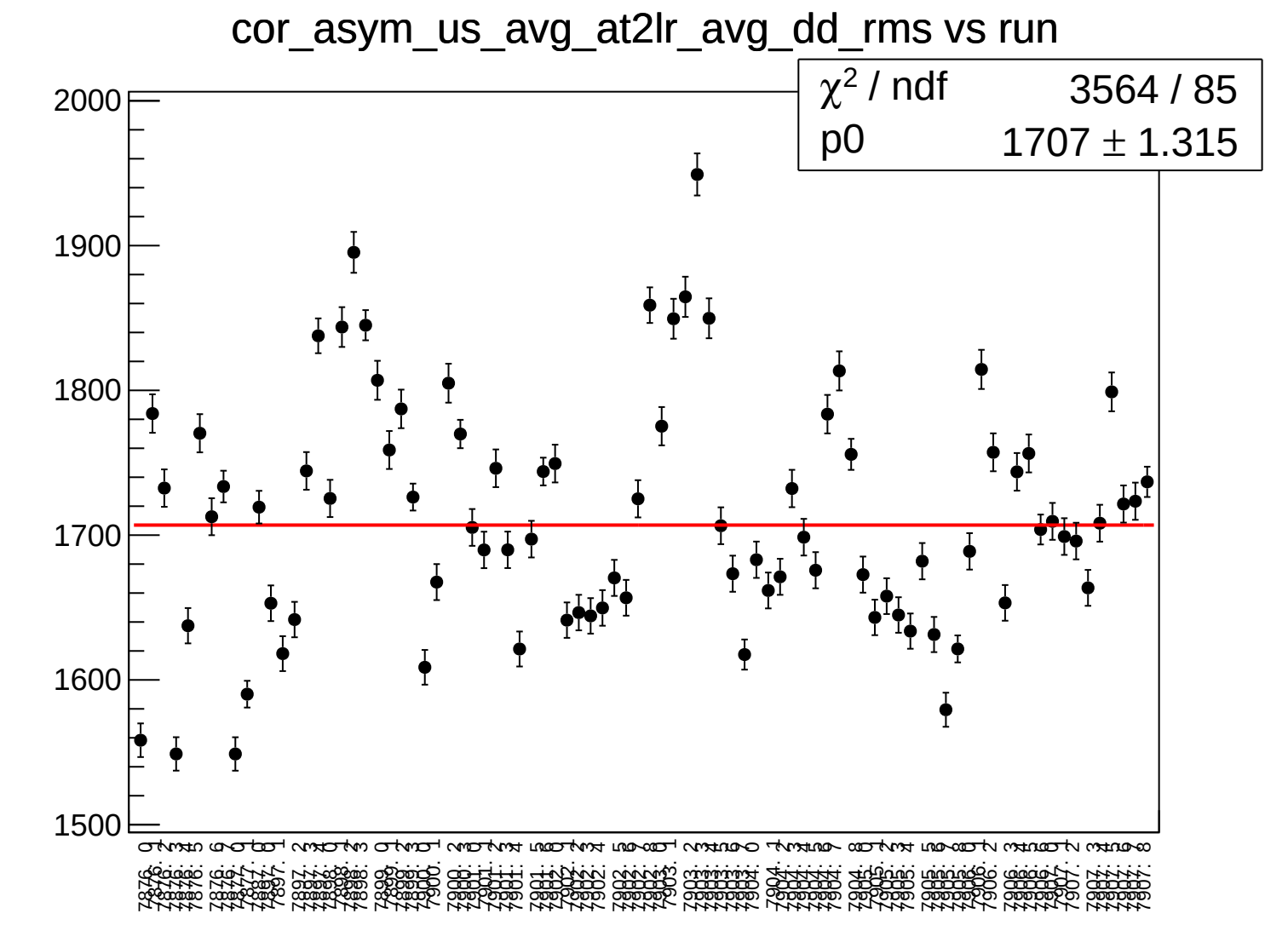

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3564 / 85
p0 1707 ± 1.315
2000
1900
1800
1700
1600
1500

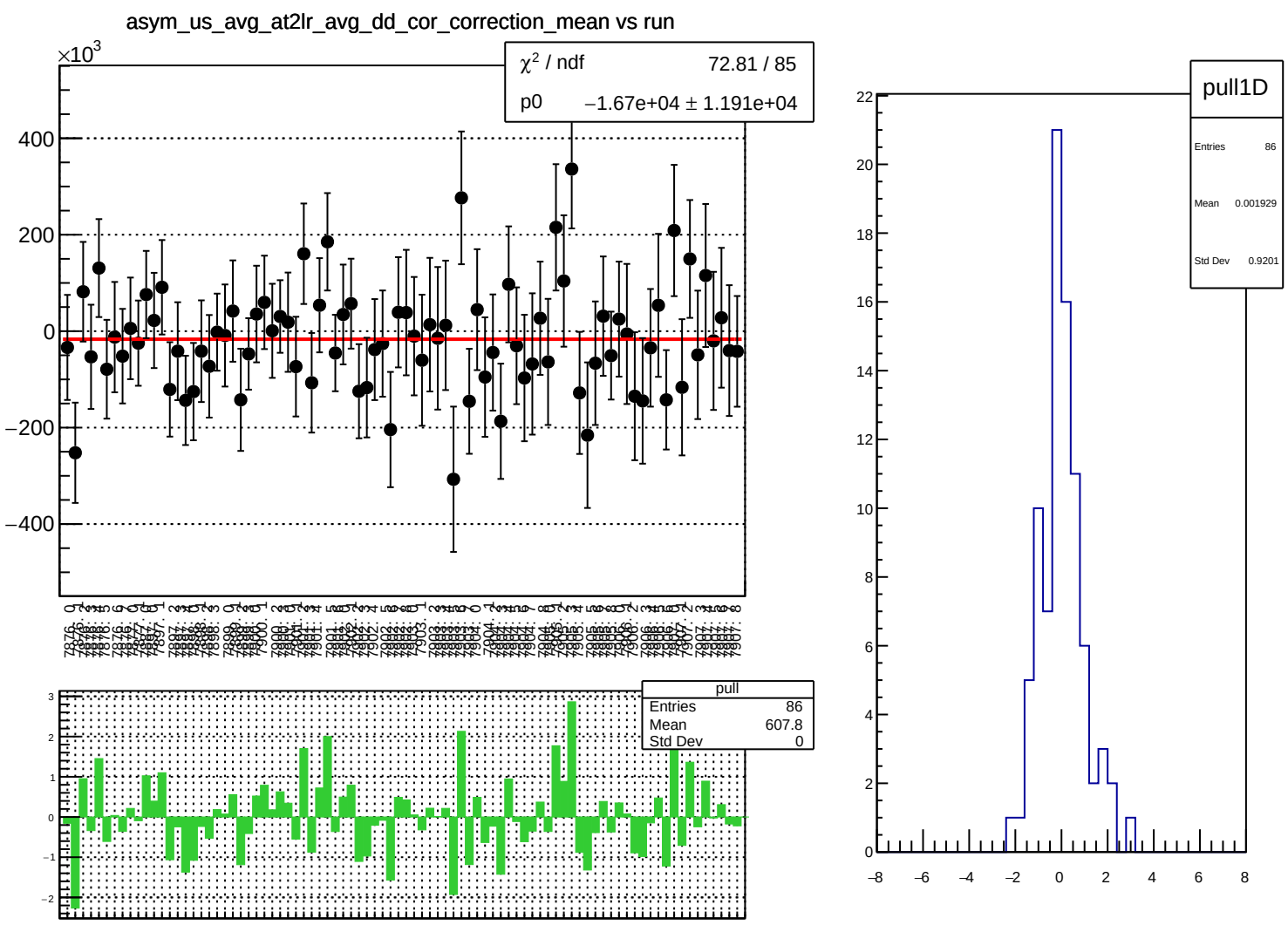

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 72.81 / 85
p0 −1.67e+04 ± 1.191e+04
400
200
0
−200
−400
pull
Entries 86
Mean 607.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.00193
Std Dev 0.9201
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

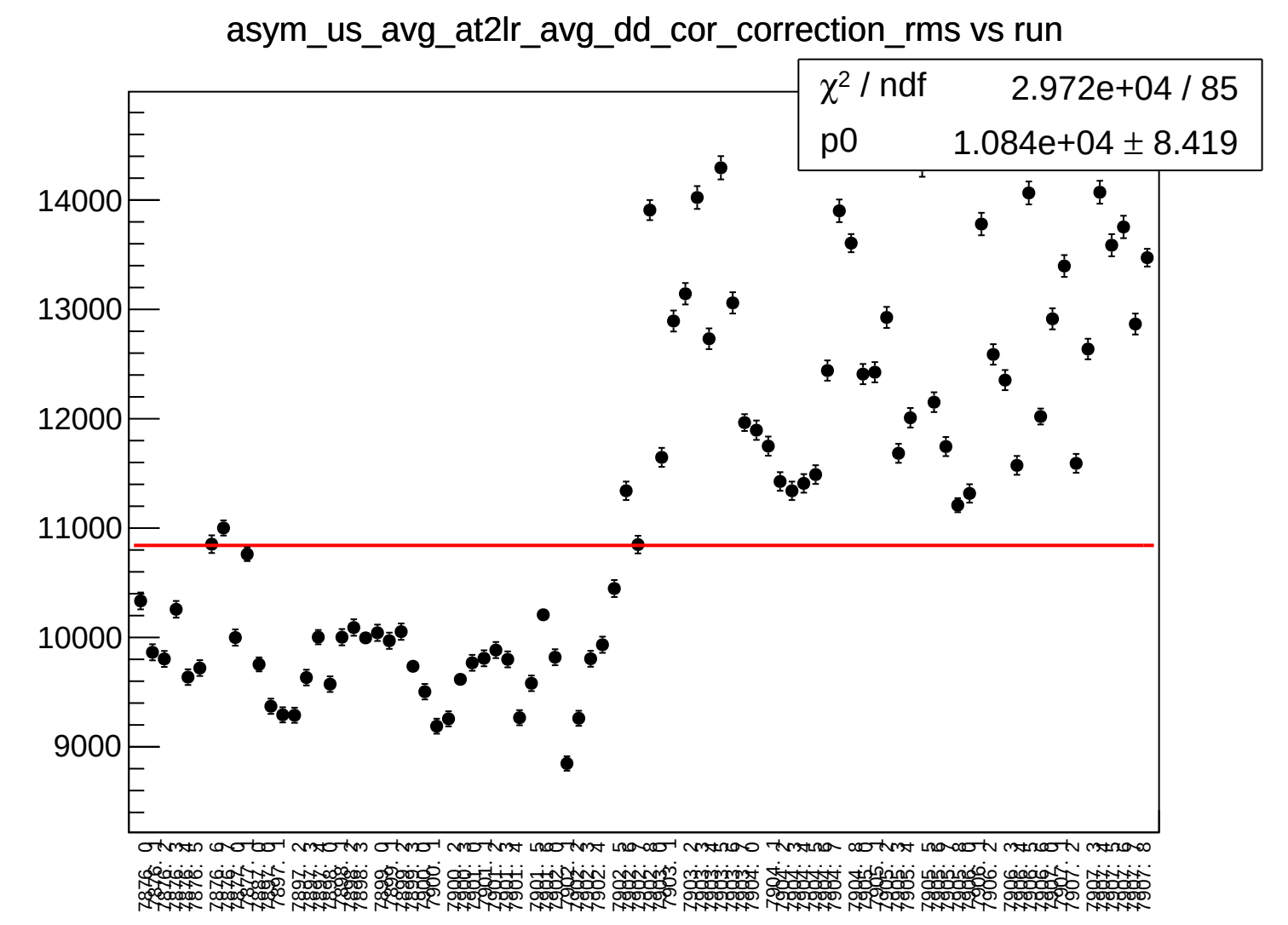

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 2.972e+04 / 85
p0 1.084e+04 ± 8.419
14000
13000
12000
11000
10000
9000

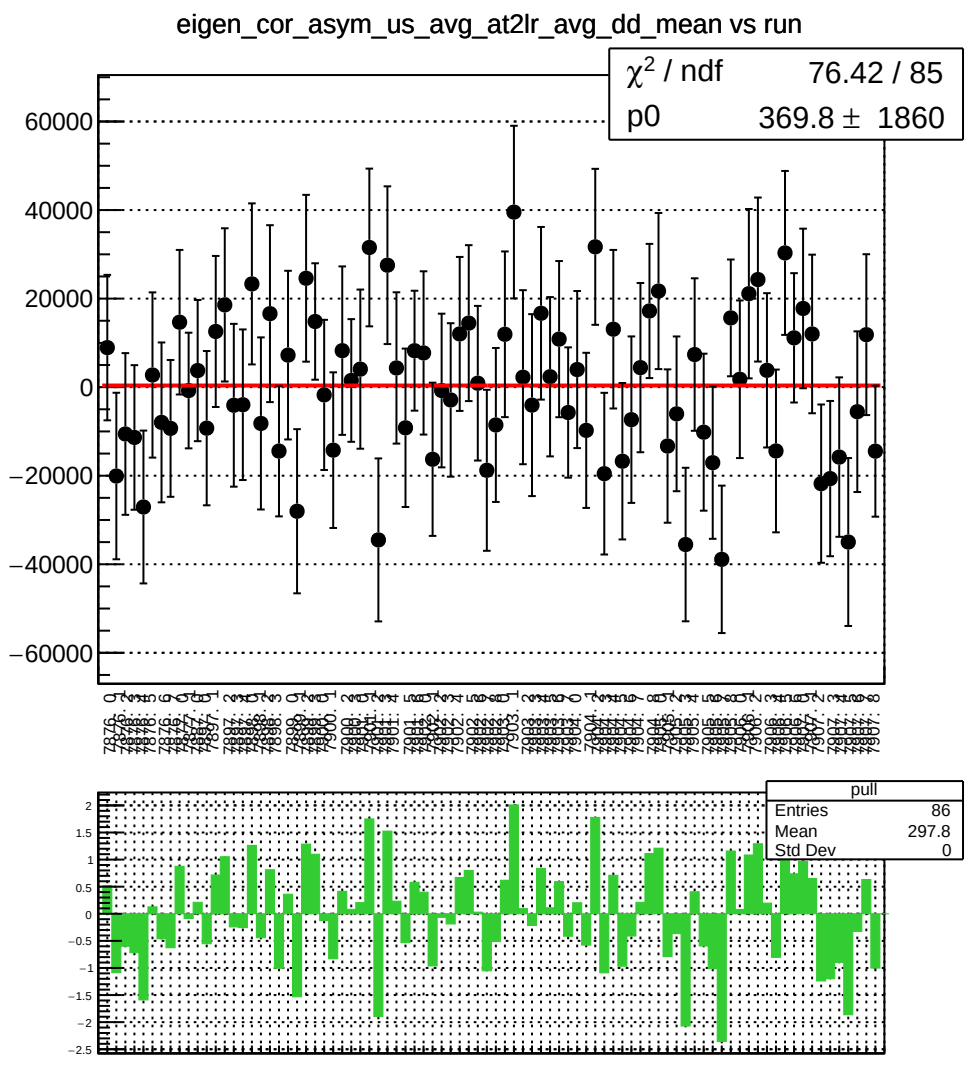

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 76.42 / 85
p0 369.8 ± 1860
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 297.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

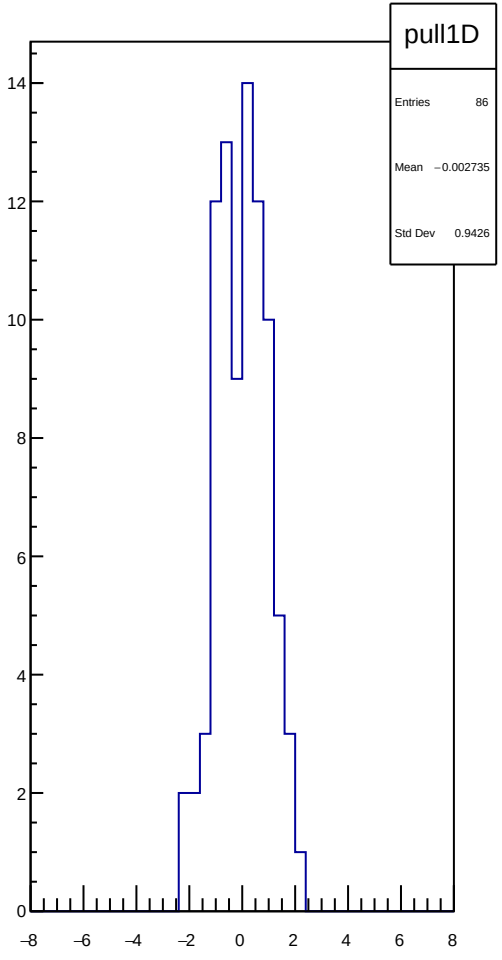

pull1D
Entries 86
Mean −0.002735
Std Dev 0.9426
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

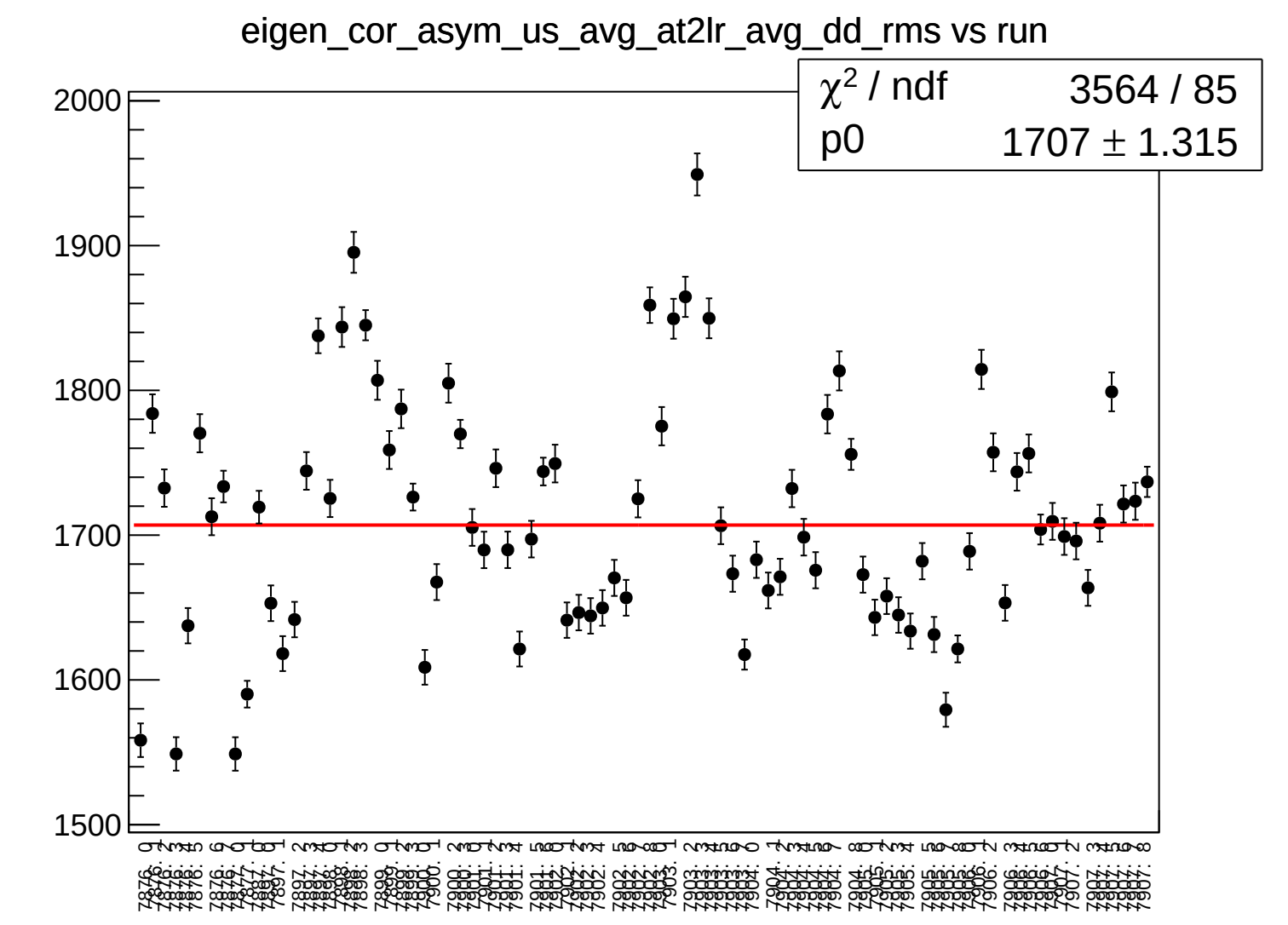

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3564 / 85
p0 1707 ± 1.315
2000
1900
1800
1700
1600
1500

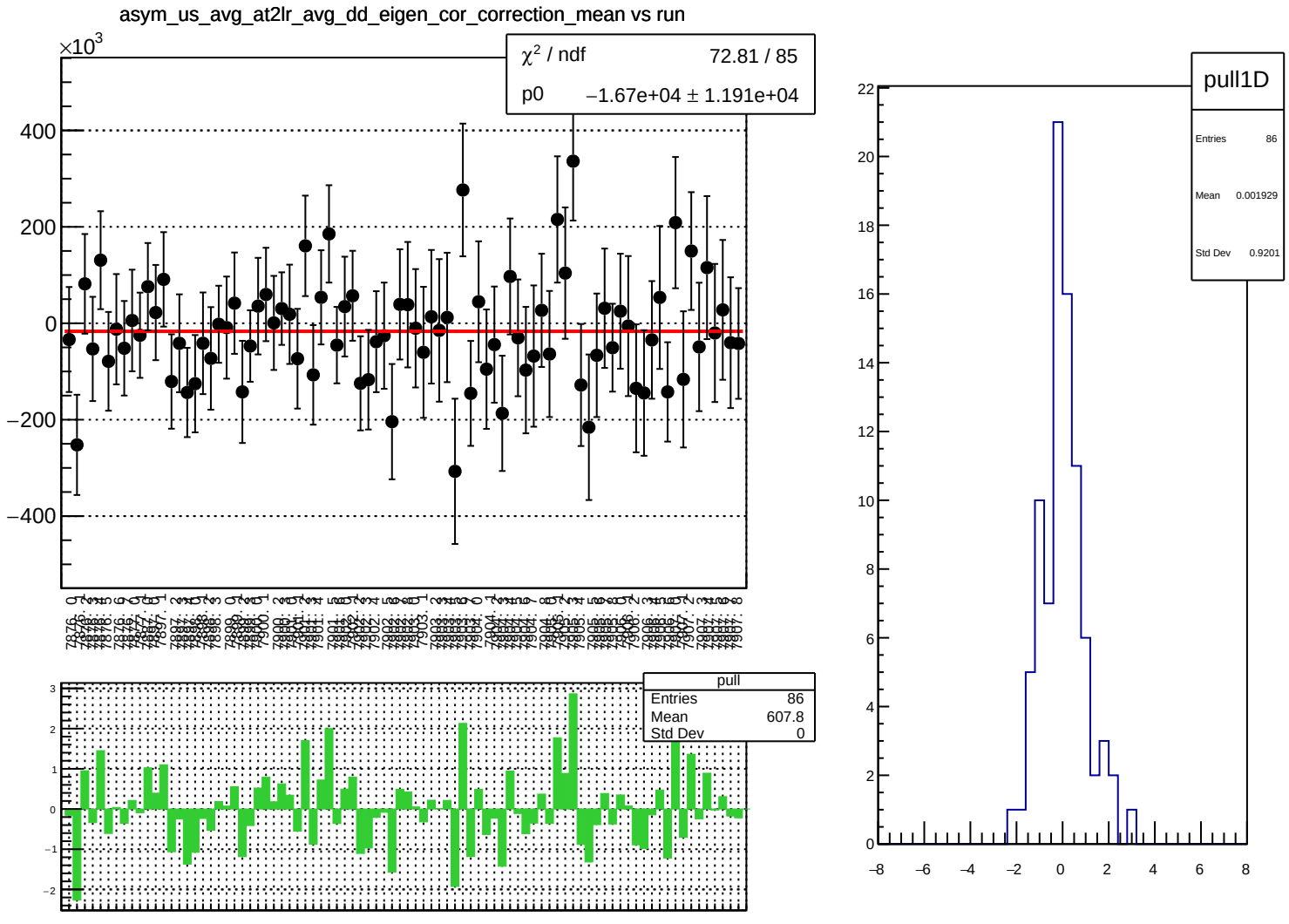

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 72.81 / 85
p0 −1.67e+04 ± 1.191e+04
400
200
0
−200
−400
pull
Entries 86
Mean 607.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.001929
Std Dev 0.9201
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

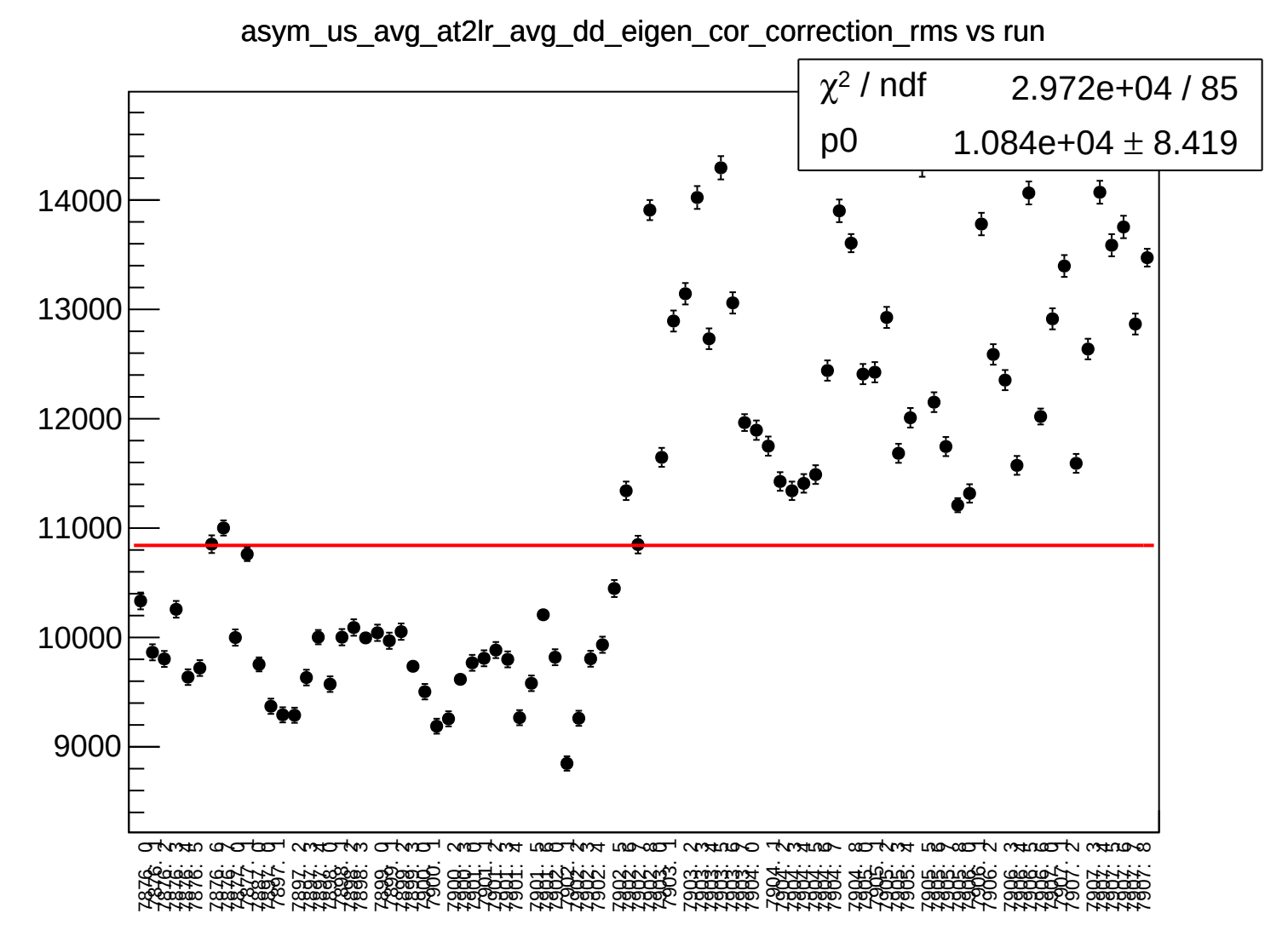

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.972e+04 / 85
p0 1.084e+04 ± 8.419
14000
13000
12000
11000
10000
9000

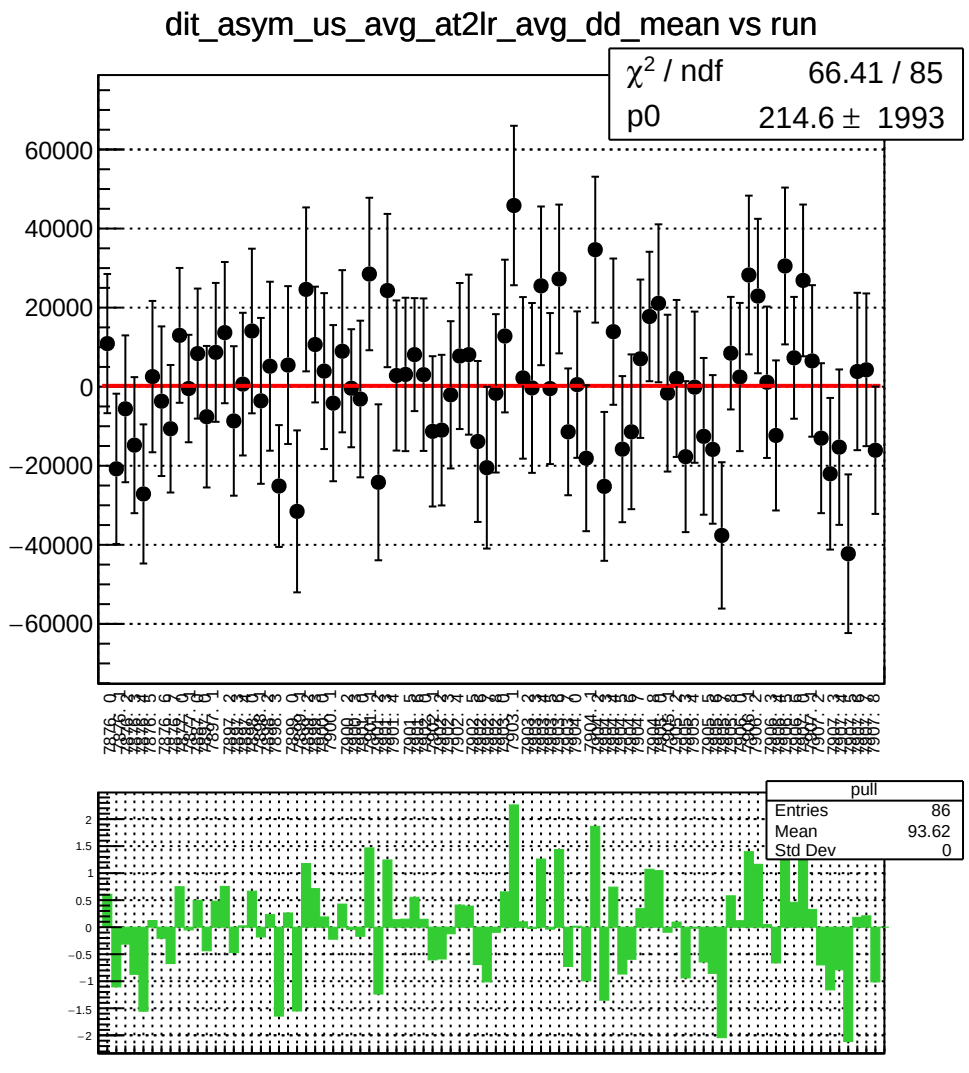

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 76.42 / 85
p0 369.8 ± 1860
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 297.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

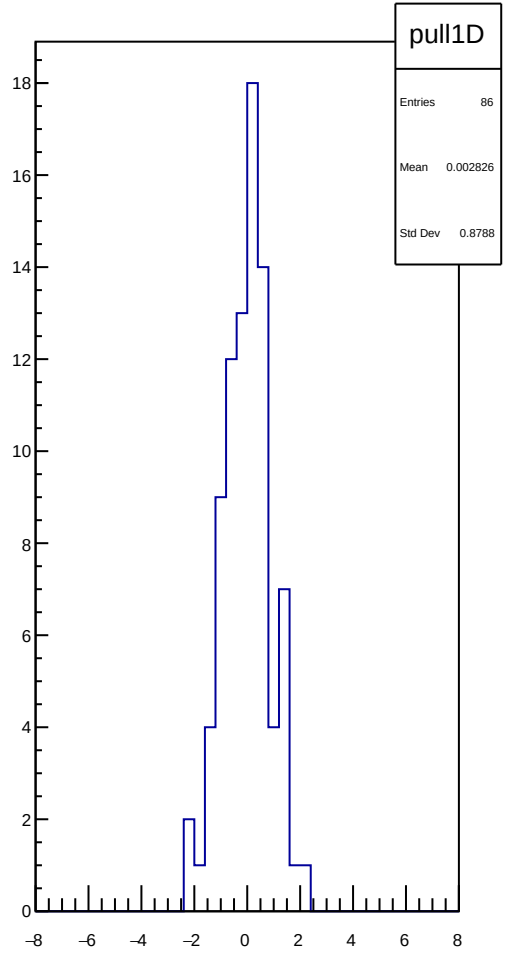

pull1D
Entries 86
Mean −0.002735
Std Dev 0.9426
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

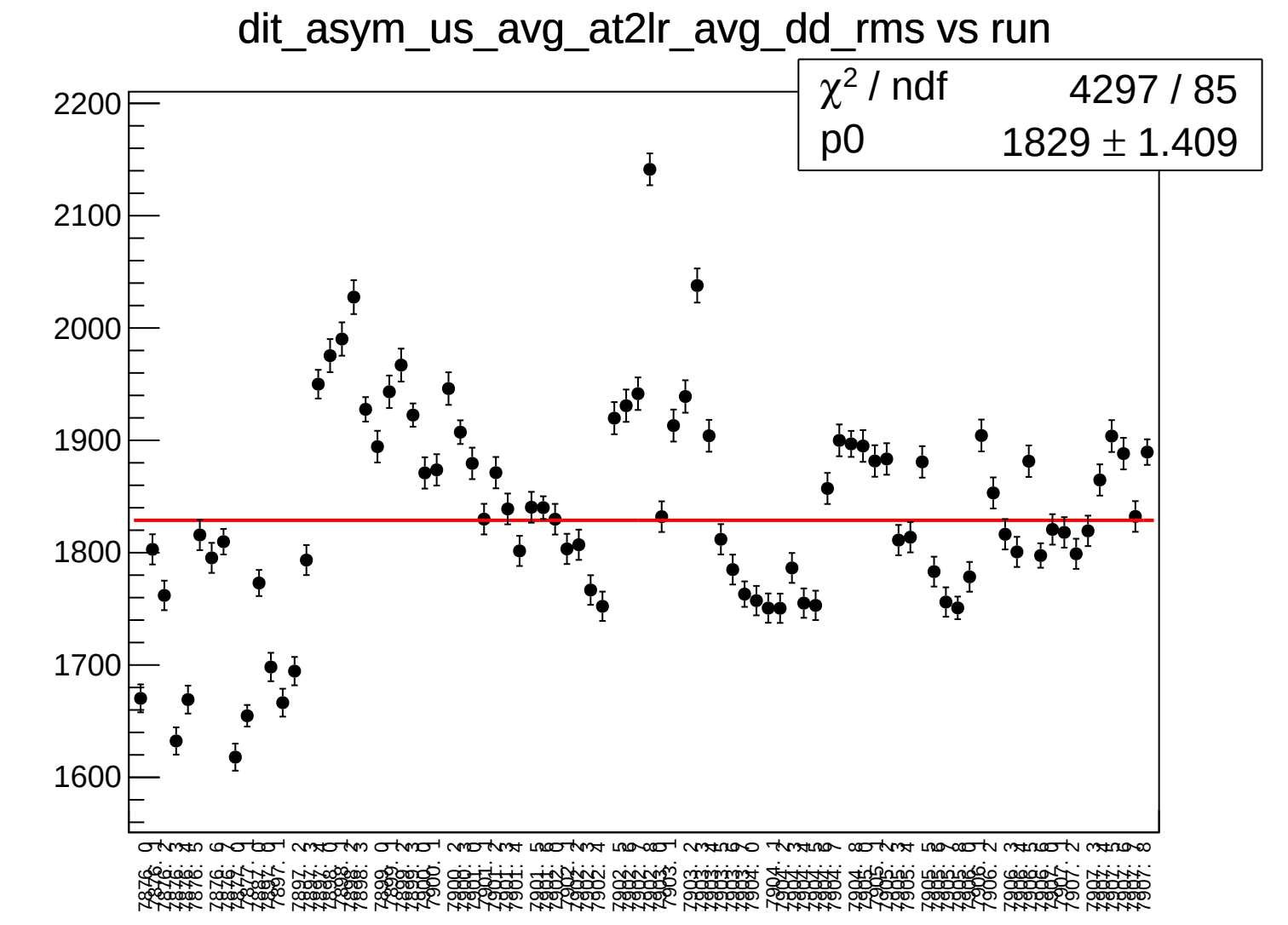

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3564 / 85
p0 1707 ± 1.315
2000
1900
1800
1700
1600
1500

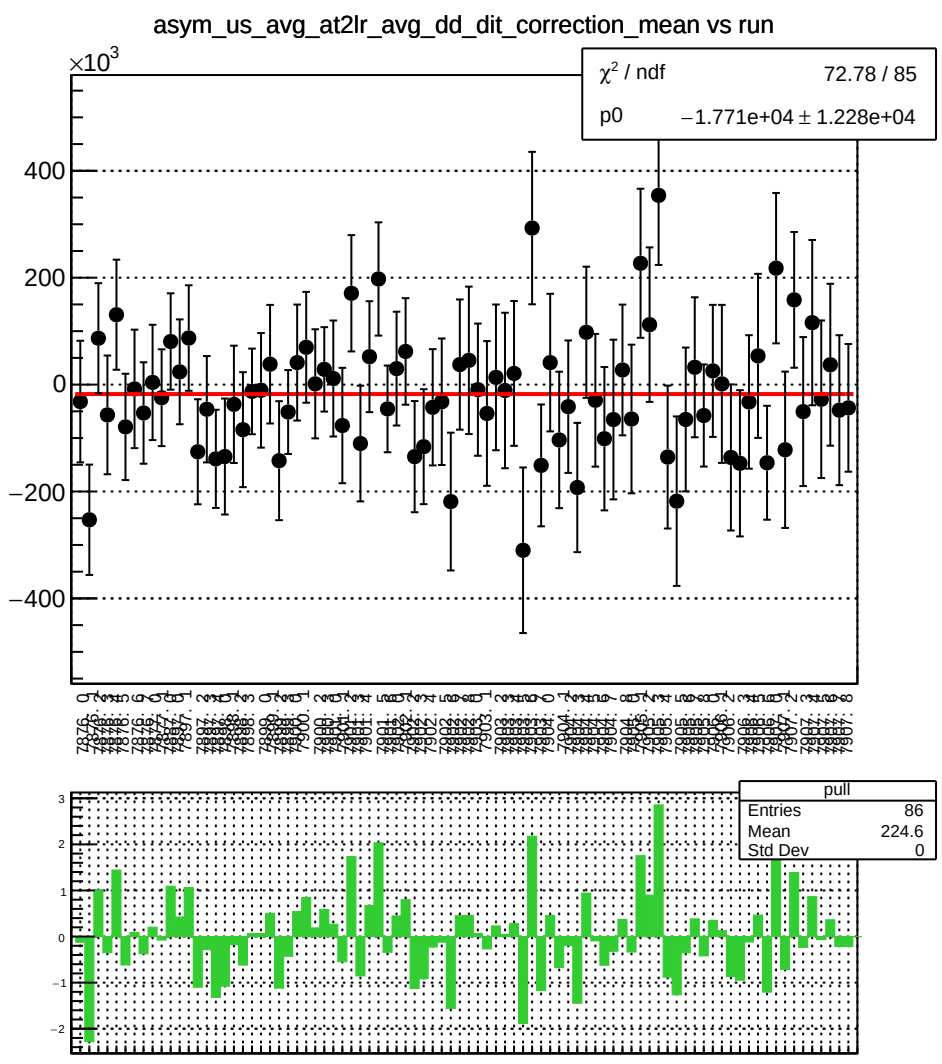

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.81 / 85
p0 −1.67e+04 ± 1.191e+04
400
200
0
−200
−400
pull
Entries 86
Mean 607.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.001929
Std Dev 0.9201
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

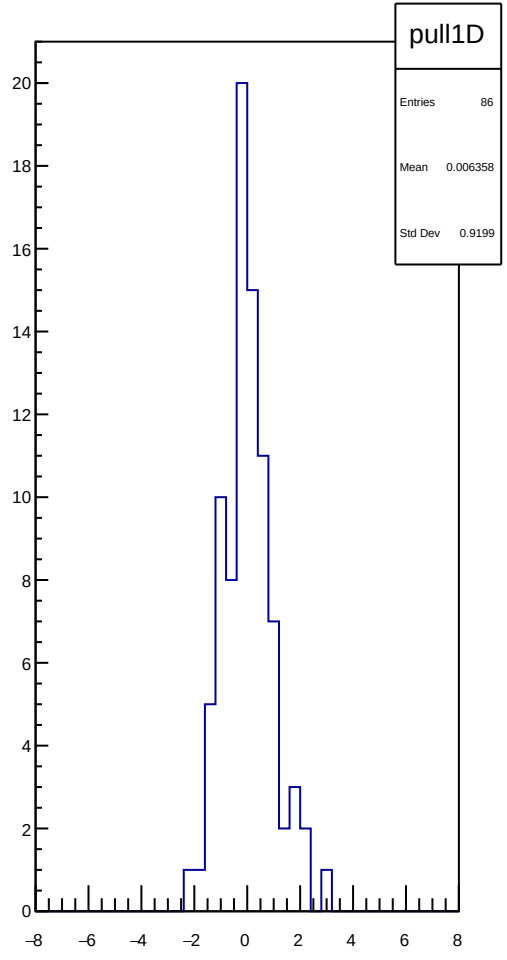

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.972e+04 / 85
p0 1.084e+04 ± 8.419
14000
13000
12000
11000
10000
9000

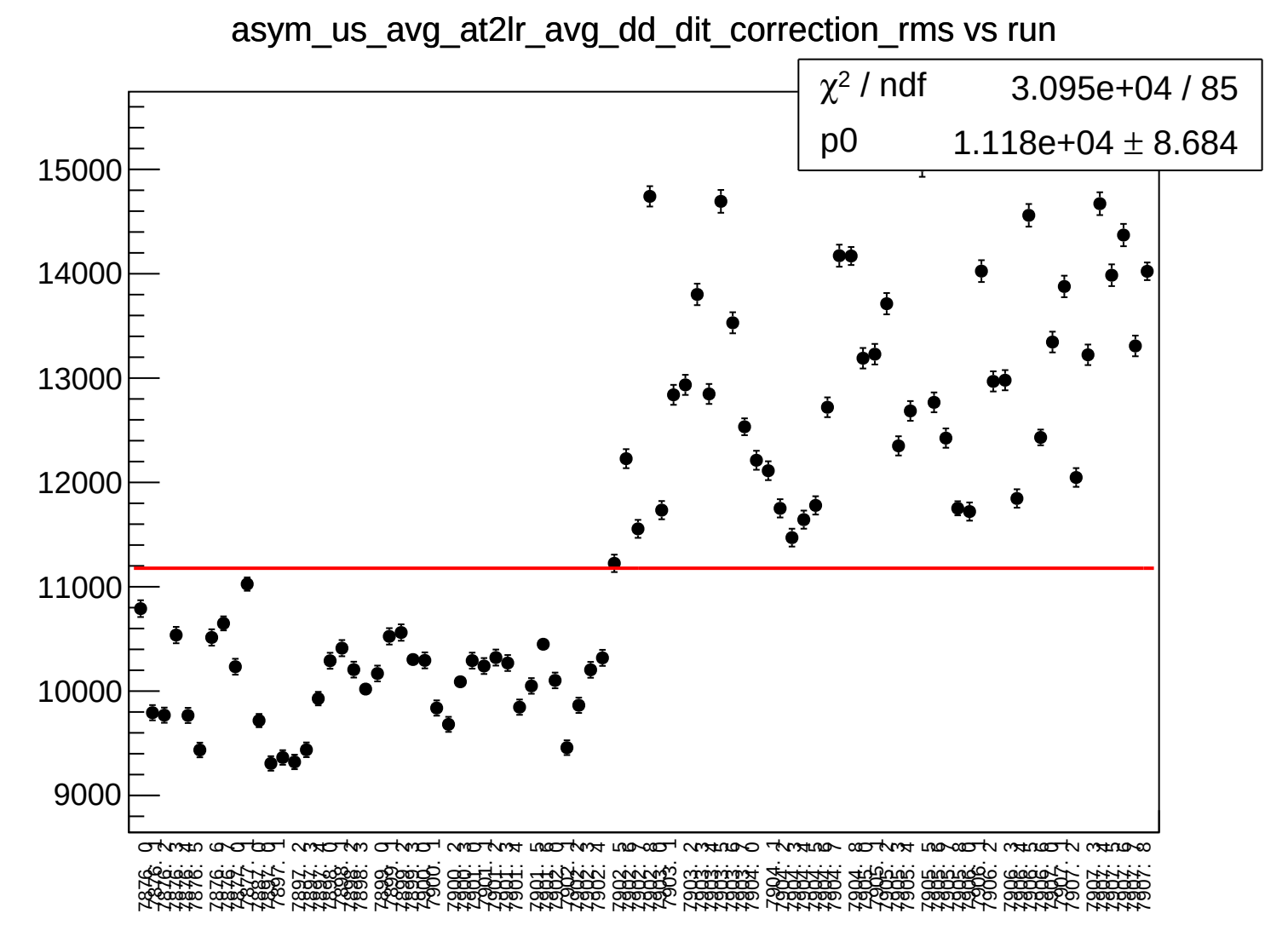

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 66.41 / 85
p0 214.6 ± 1993
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 93.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

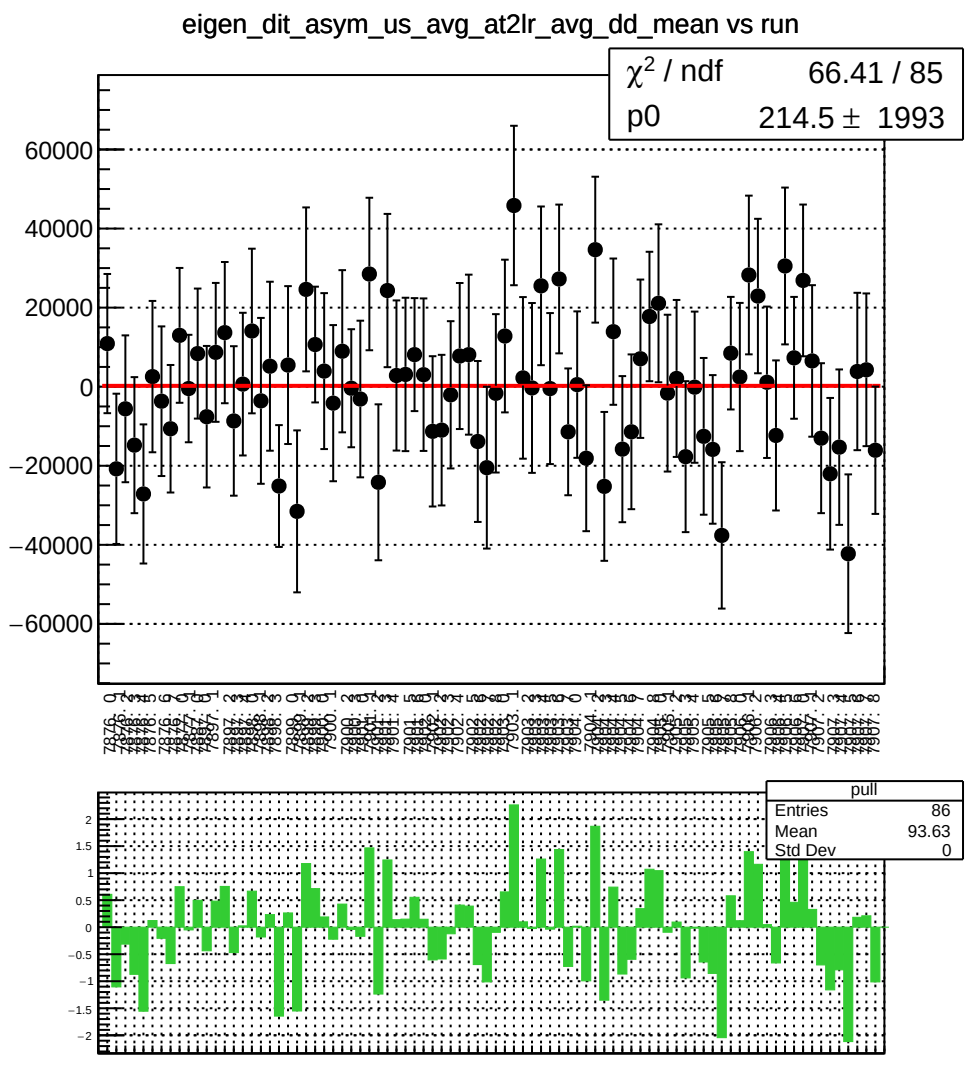

pull1D
Entries 86
Mean 0.002826
Std Dev 0.8788
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

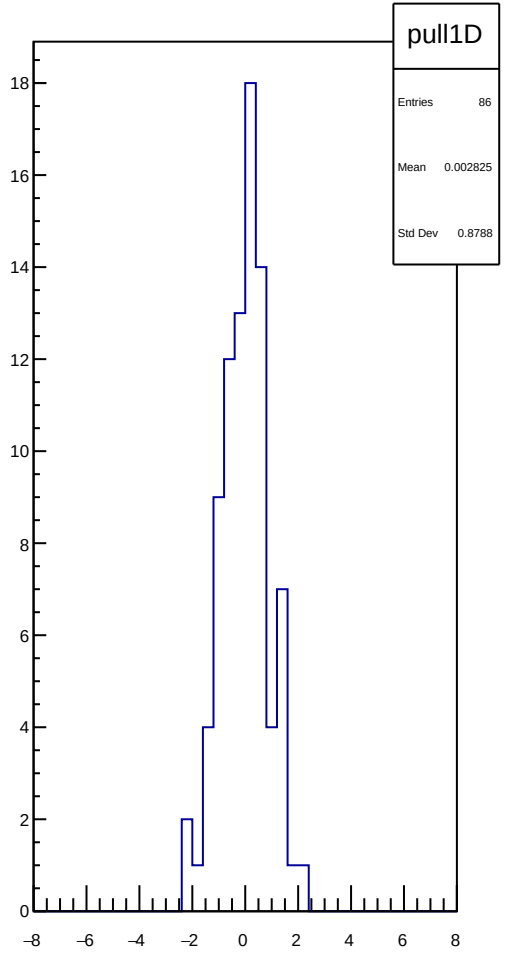

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 4297 / 85
p0 1829 ± 1.409
2200
2100
2000
1900
1800
1700
1600

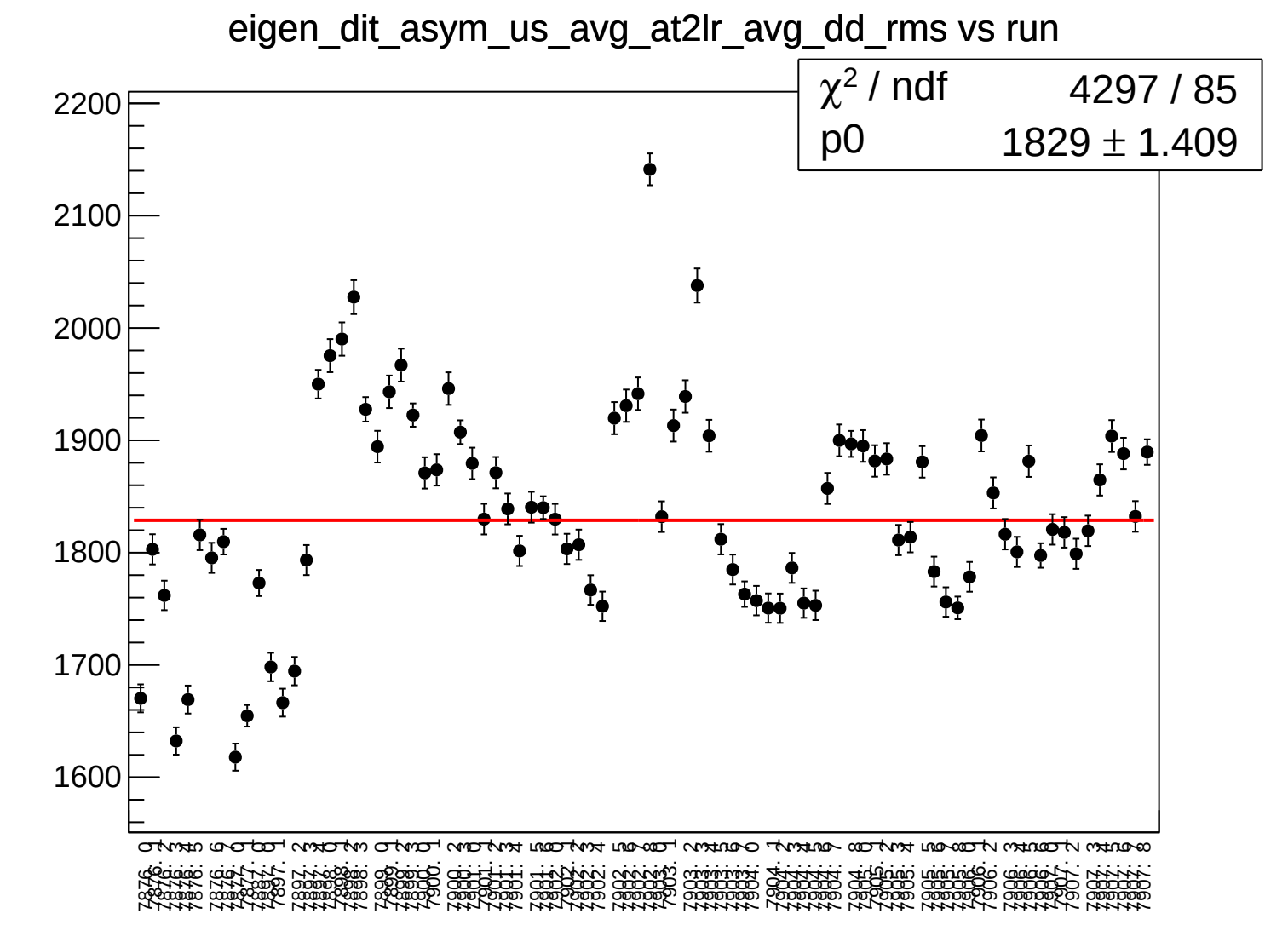

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 72.78 / 85
p0 −1.771e+04 ± 1.228e+04
400
200
0
−200
−400
pull
Entries 86
Mean 224.6
Std Dev 0
3
2
1
0
−1
−2

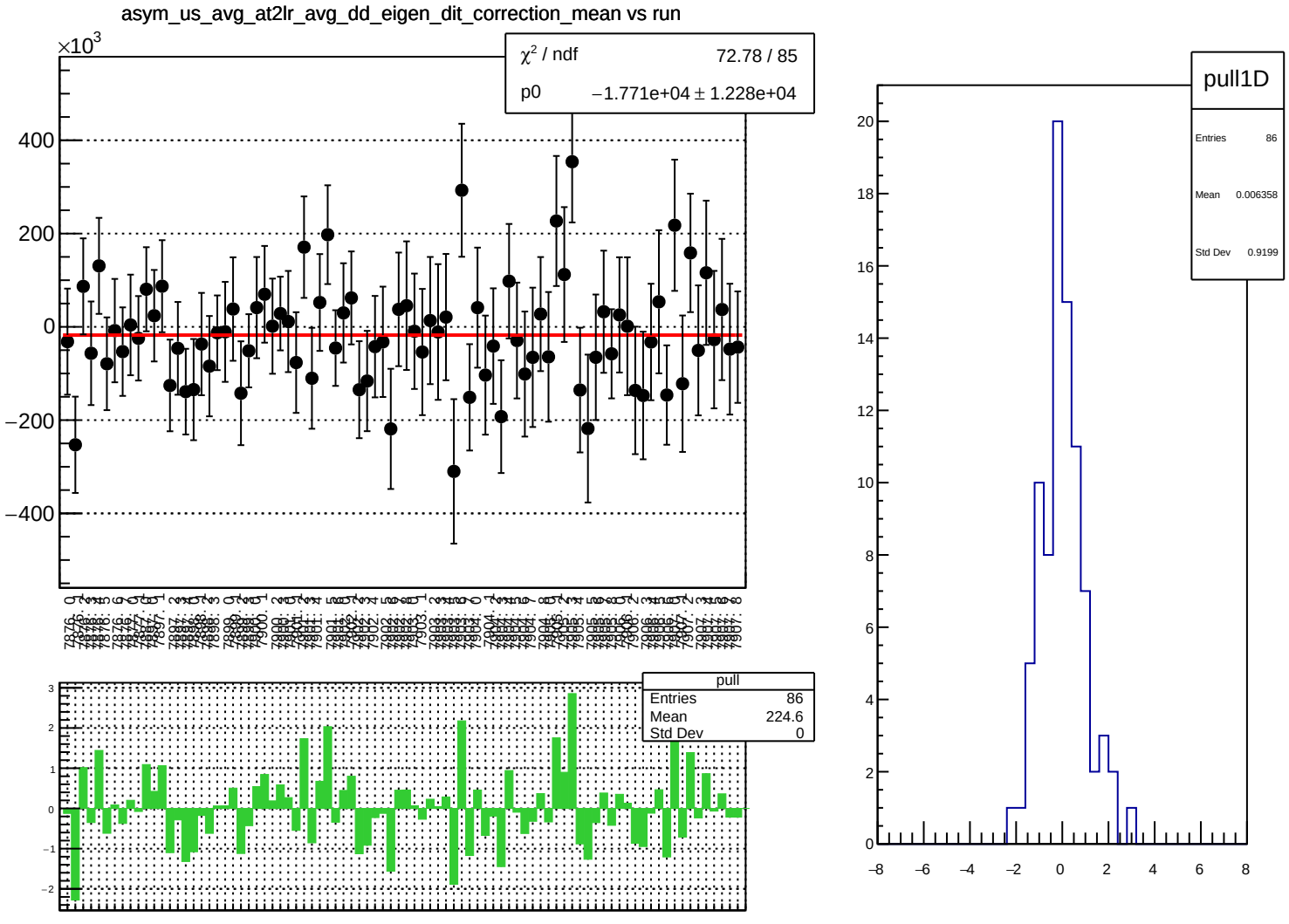

pull1D
Entries 86
Mean 0.006358
Std Dev 0.9199
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

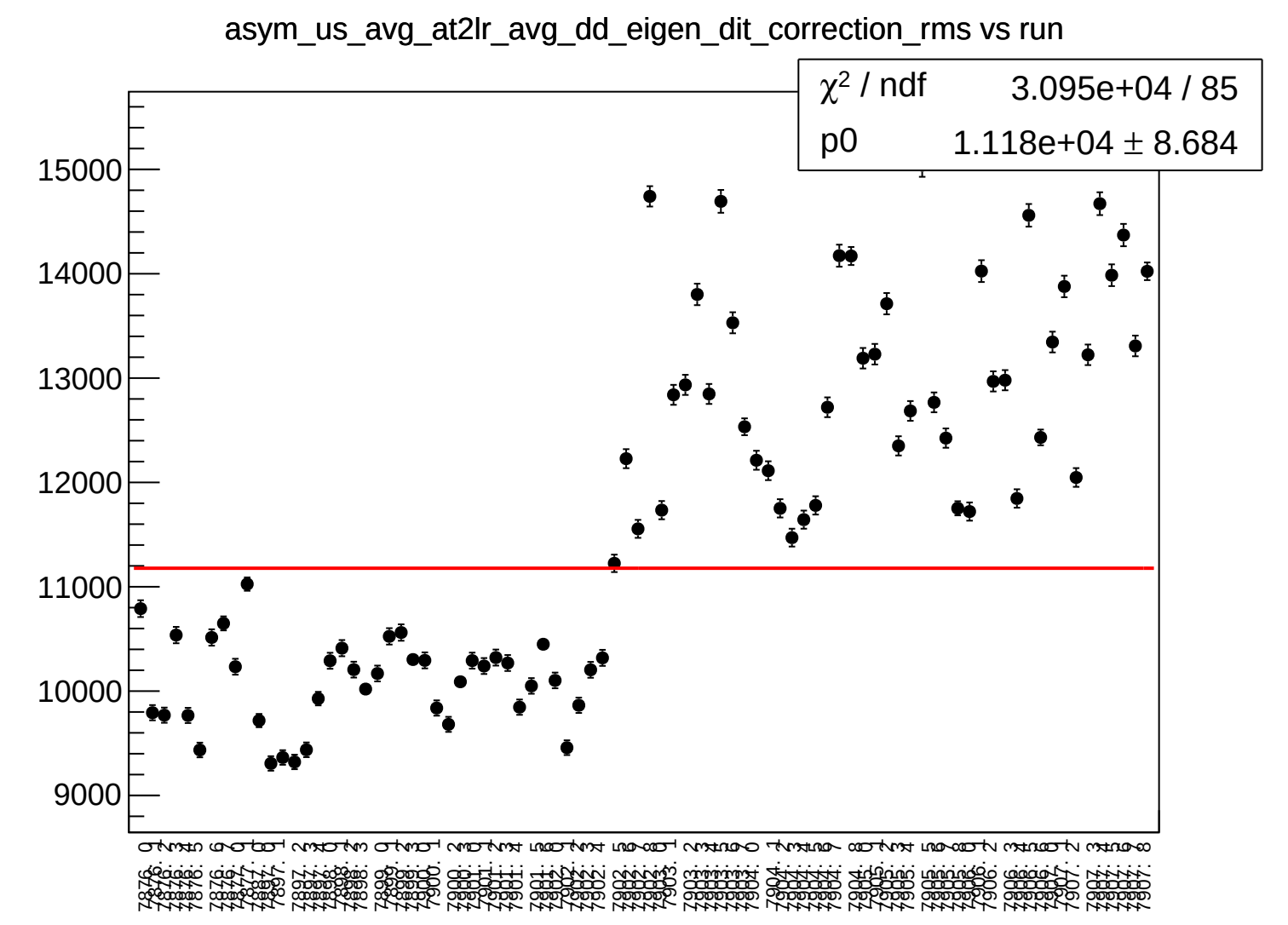

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.095e+04 / 85
p0 1.118e+04 ± 8.684
15000
14000
13000
12000
11000
10000
9000

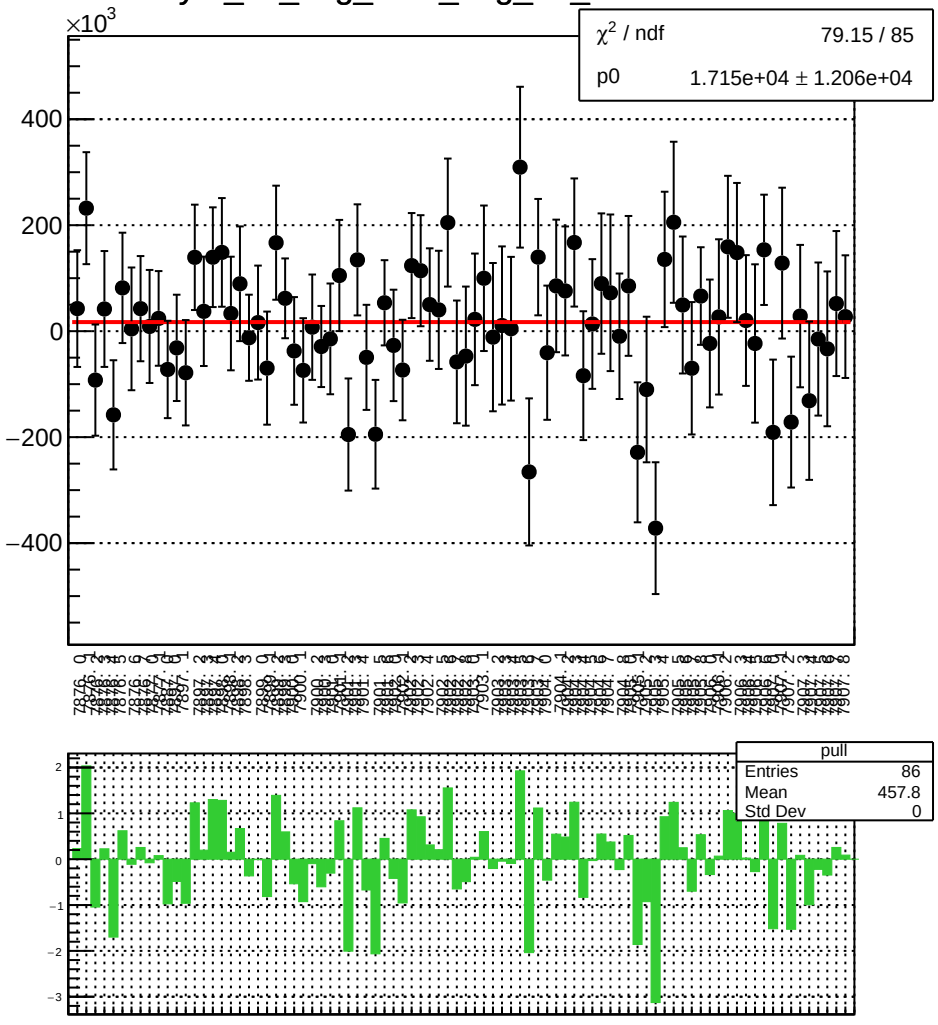

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 66.41 / 85
p0 214.5 ± 1993
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 93.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

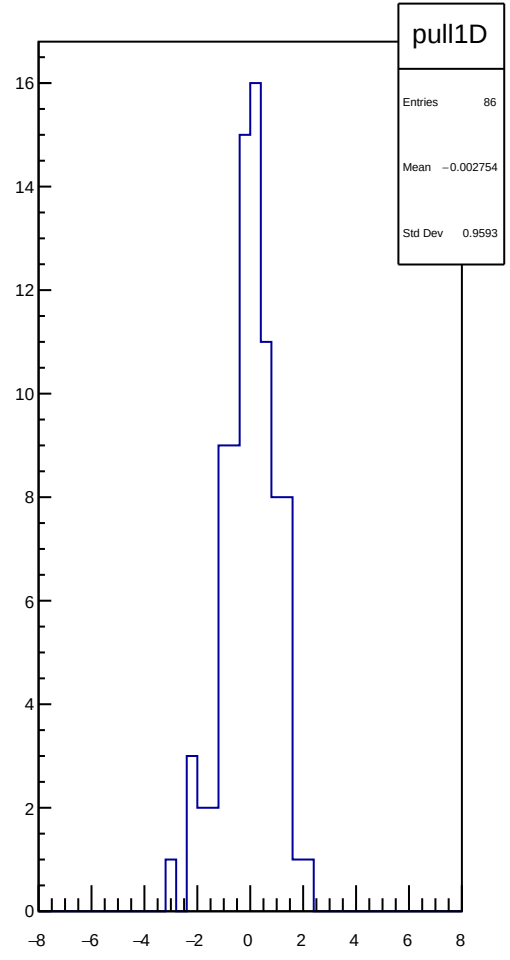

pull1D
Entries 86
Mean 0.002825
Std Dev 0.8788
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

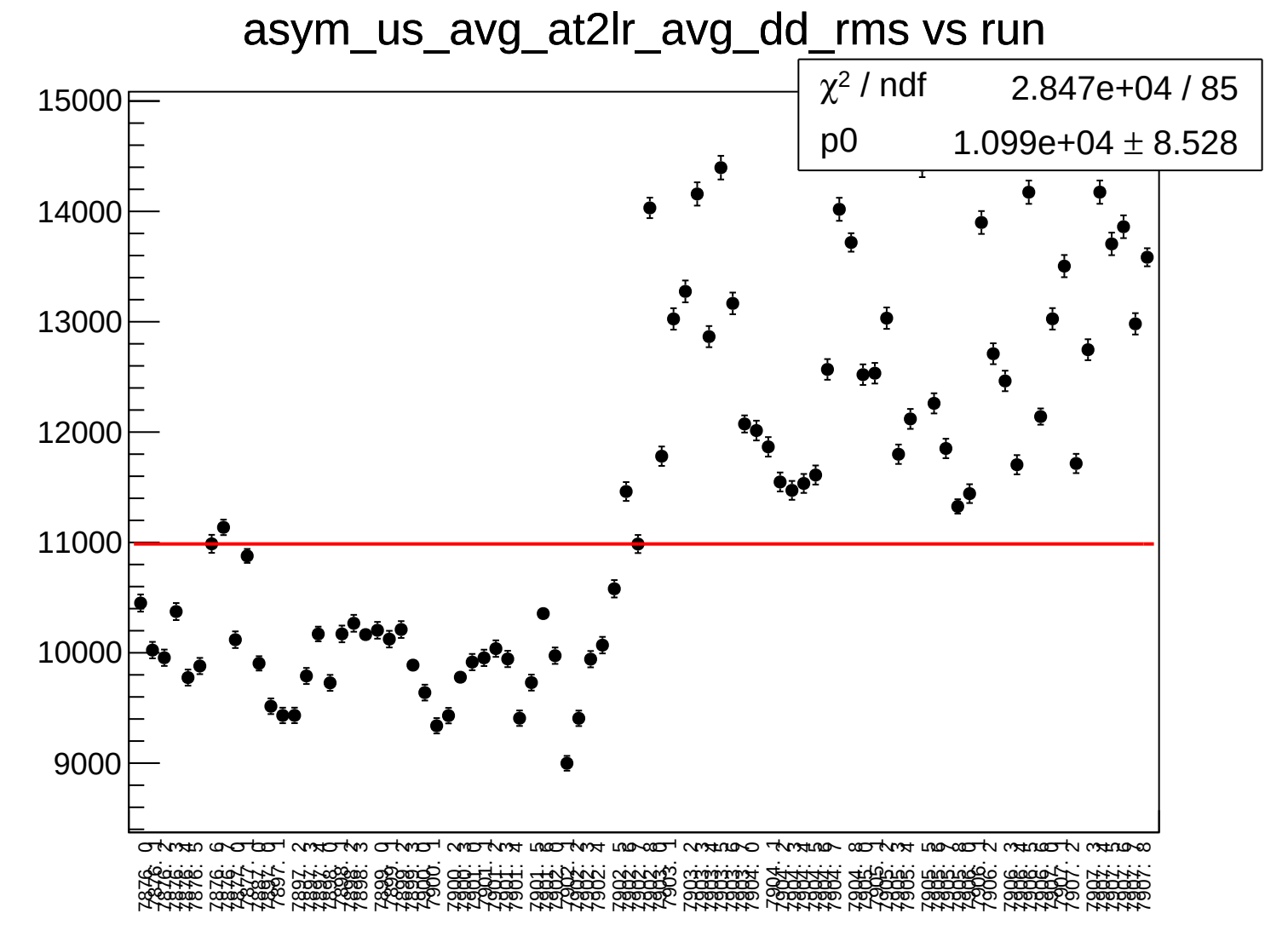

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 4297 / 85
p0 1829 ± 1.409
2200
2100
2000
1900
1800
1700
1600

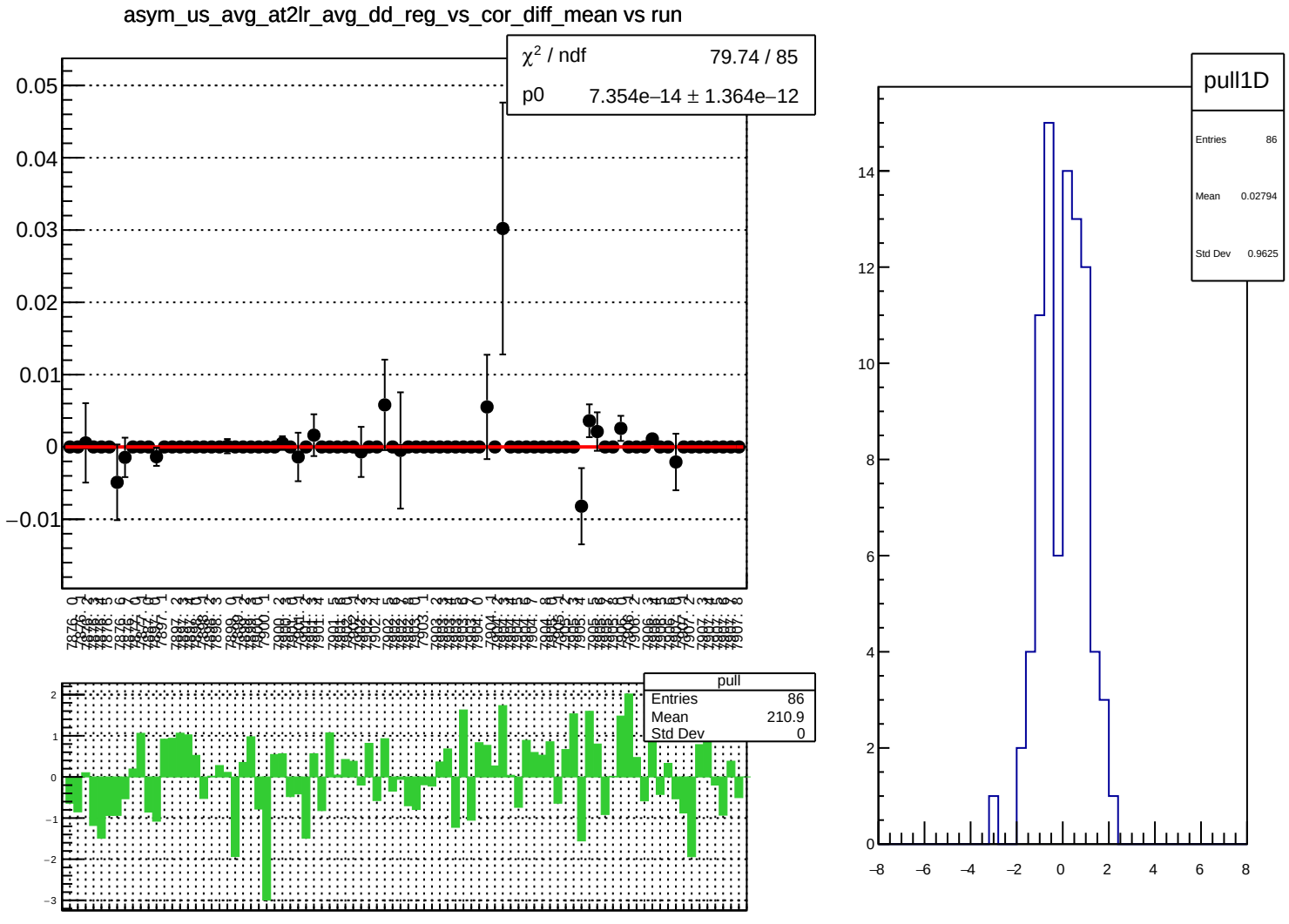

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.78 / 85
p0 −1.771e+04 ± 1.228e+04
400
200
0
−200
−400
pull
Entries 86
Mean 224.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.006358
Std Dev 0.9199
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

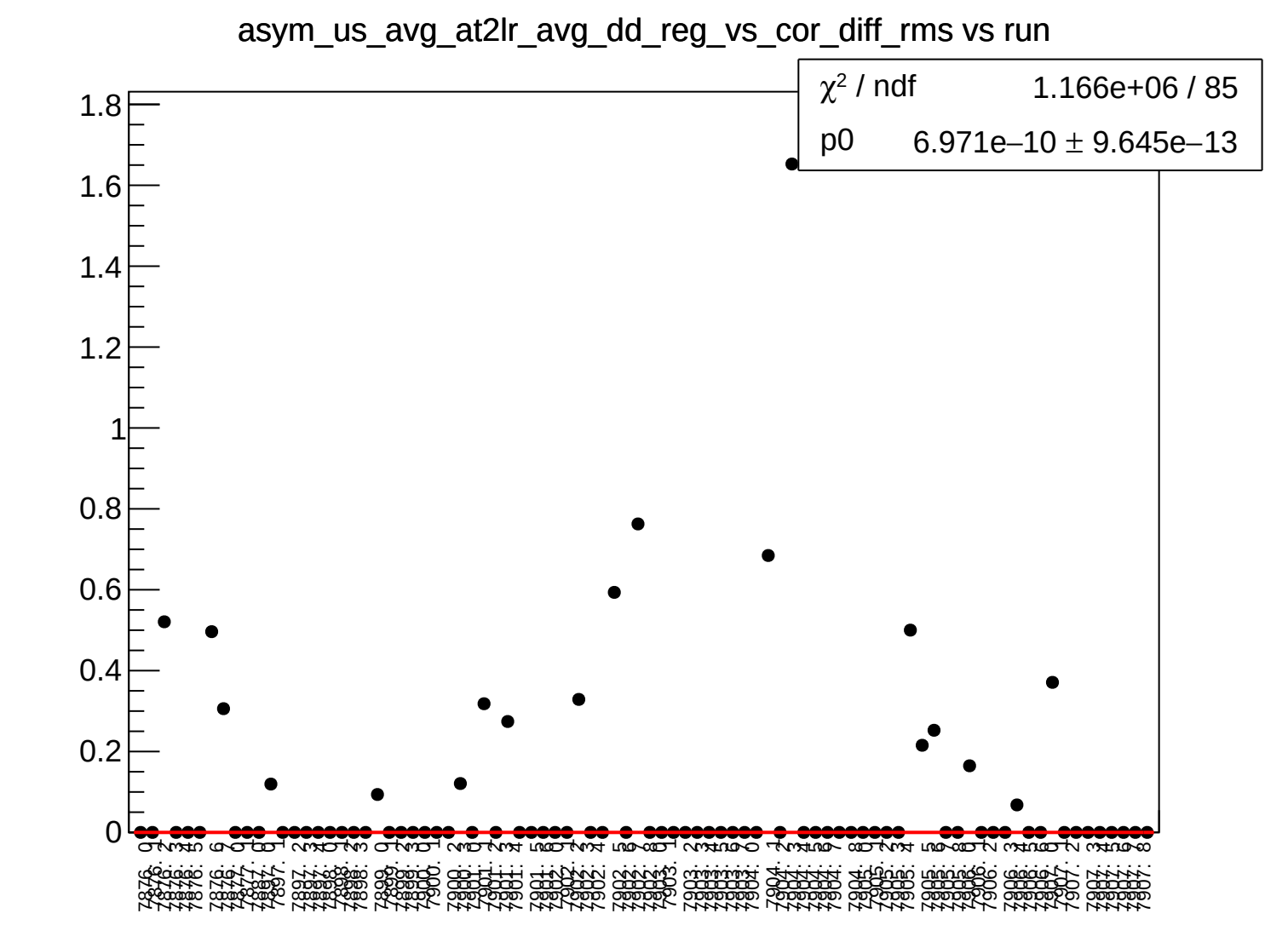

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.095e+04 / 85
p0 1.118e+04 ± 8.684
15000
14000
13000
12000
11000
10000
9000

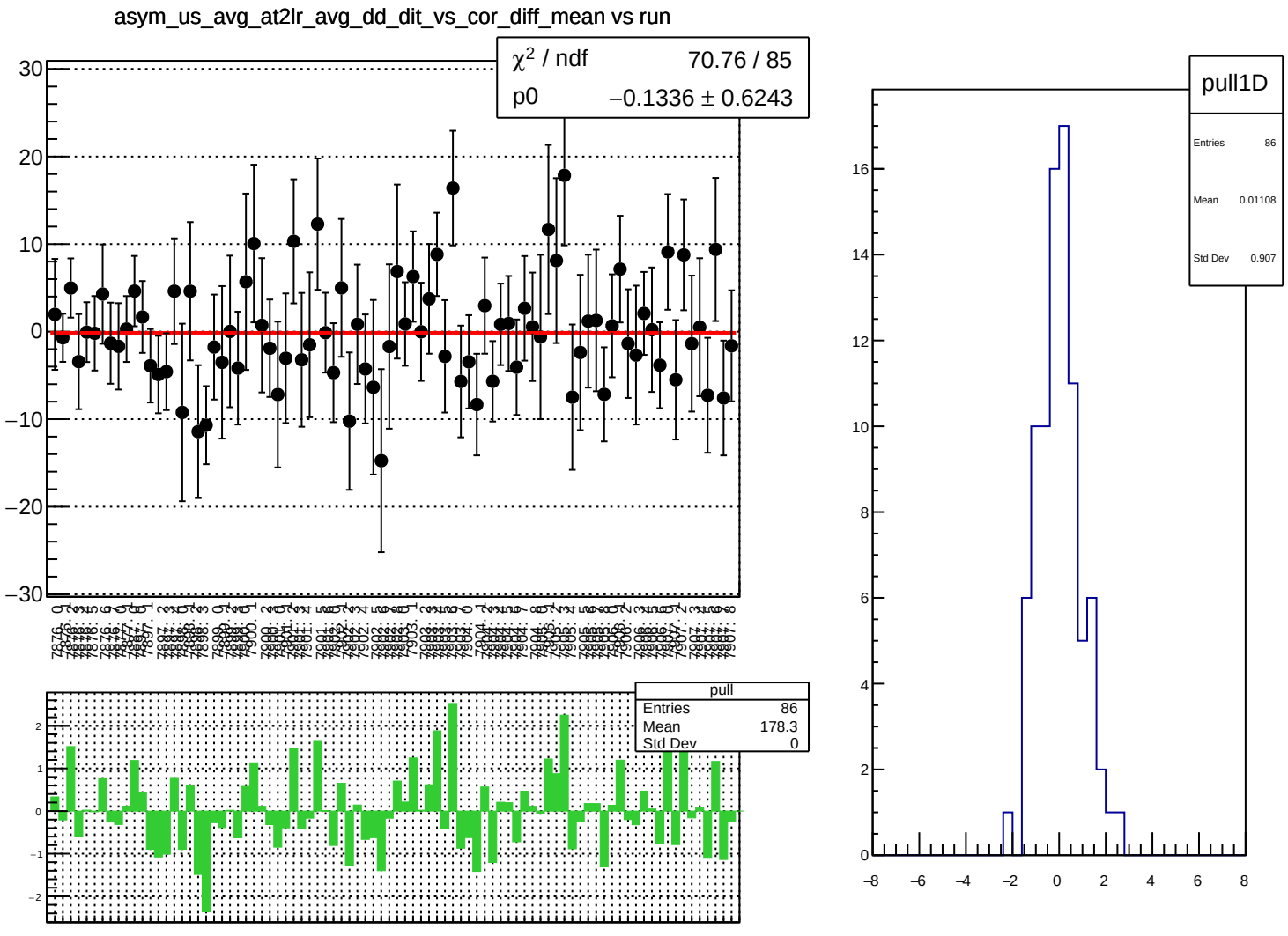

asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 79.15 / 85
p0 1.715e+04 ± 1.206e+04
×10³
400
200
0
−200
−400
pull
Entries 86
Mean 457.8
Std Dev 0
2
1
0
−1
−2
−3

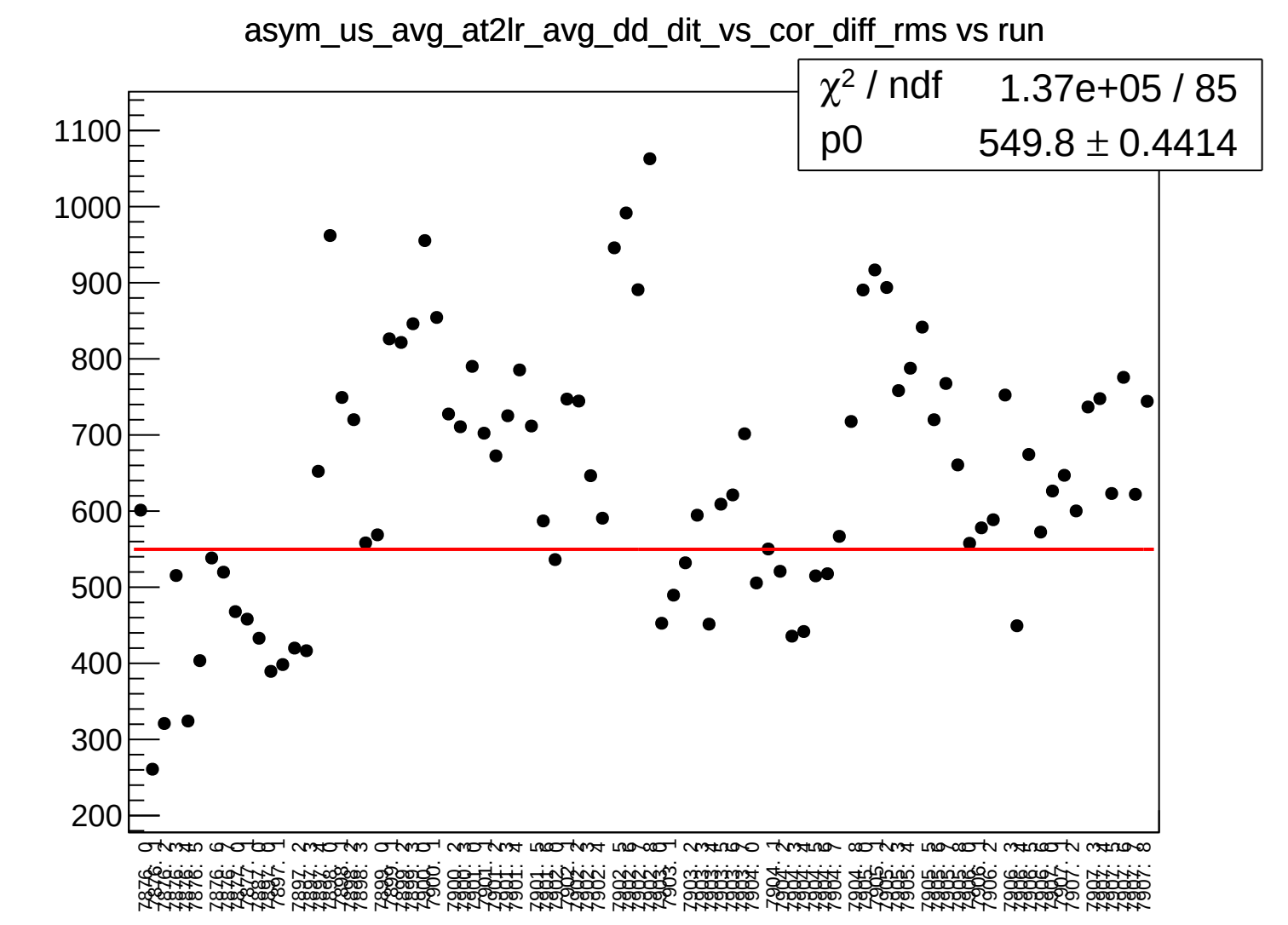

pull1D
Entries 86
Mean −0.002754
Std Dev 0.9593
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

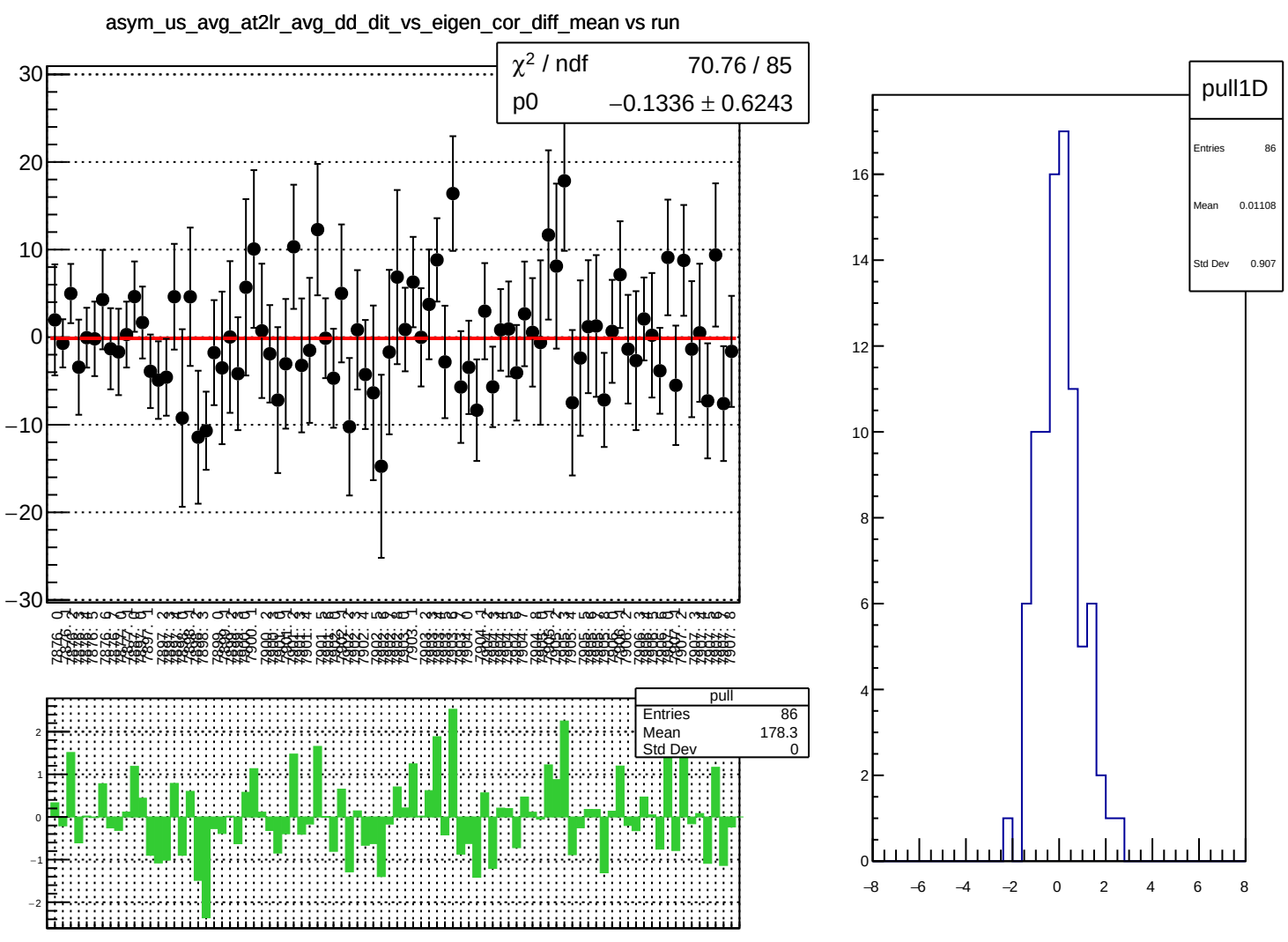

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.847e+04 / 85
p0 1.099e+04 ± 8.528
15000
14000
13000
12000
11000
10000
9000

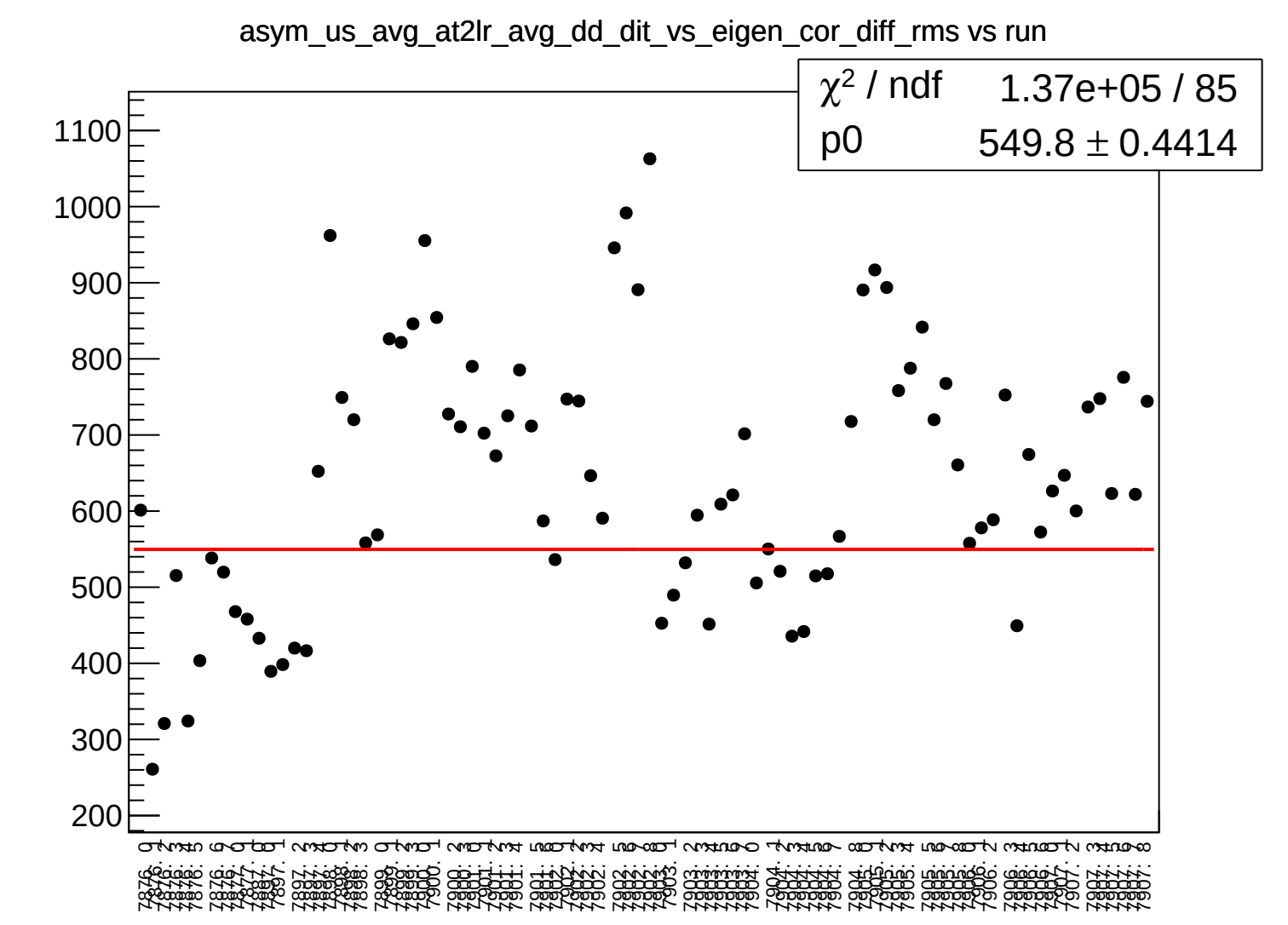

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.74 / 85
p0 7.354e−14 ± 1.364e−12
0.05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 86
Mean 210.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.02794
Std Dev 0.9625
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

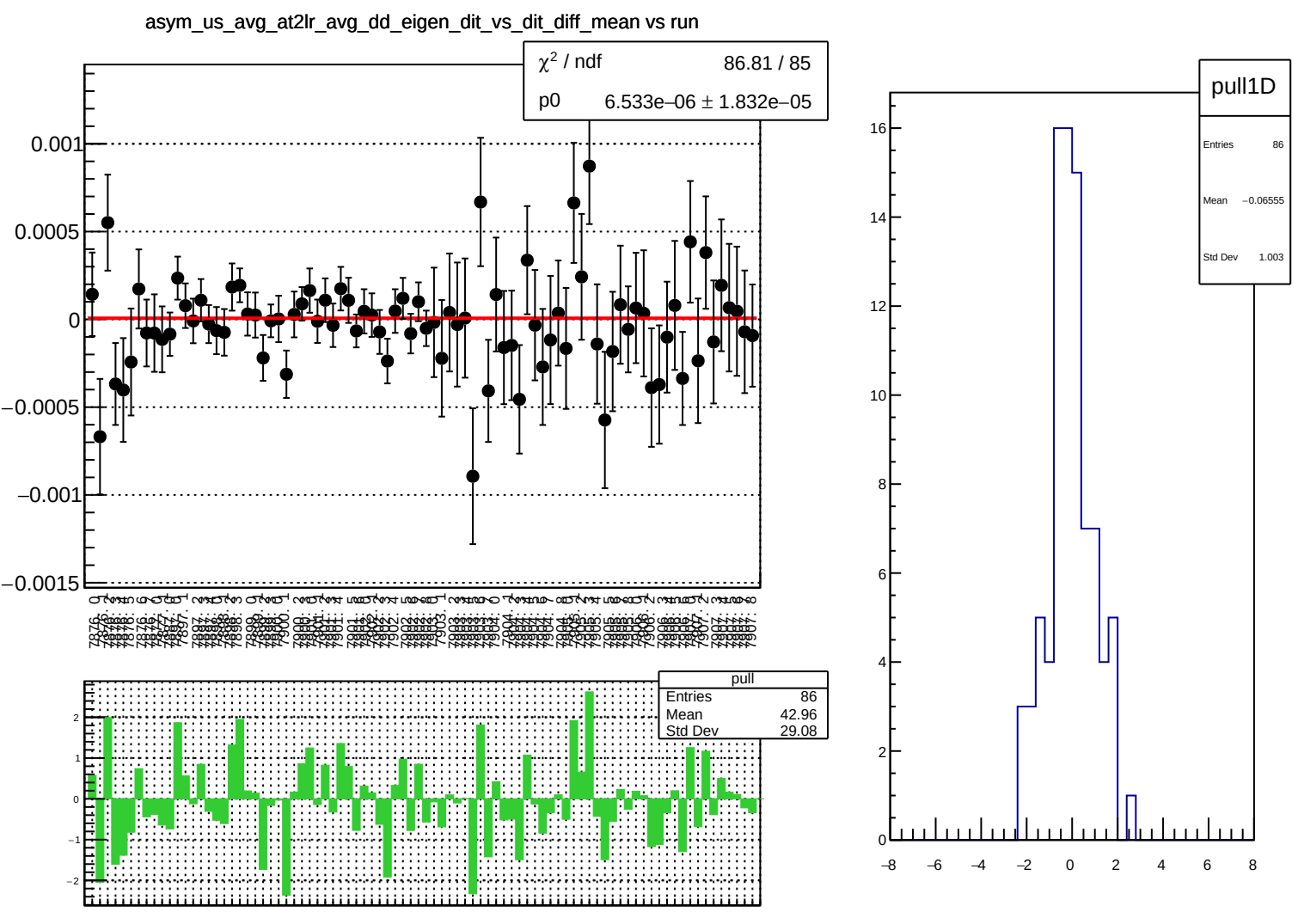

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.166e+06 / 85
p0 6.971e−10 ± 9.645e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

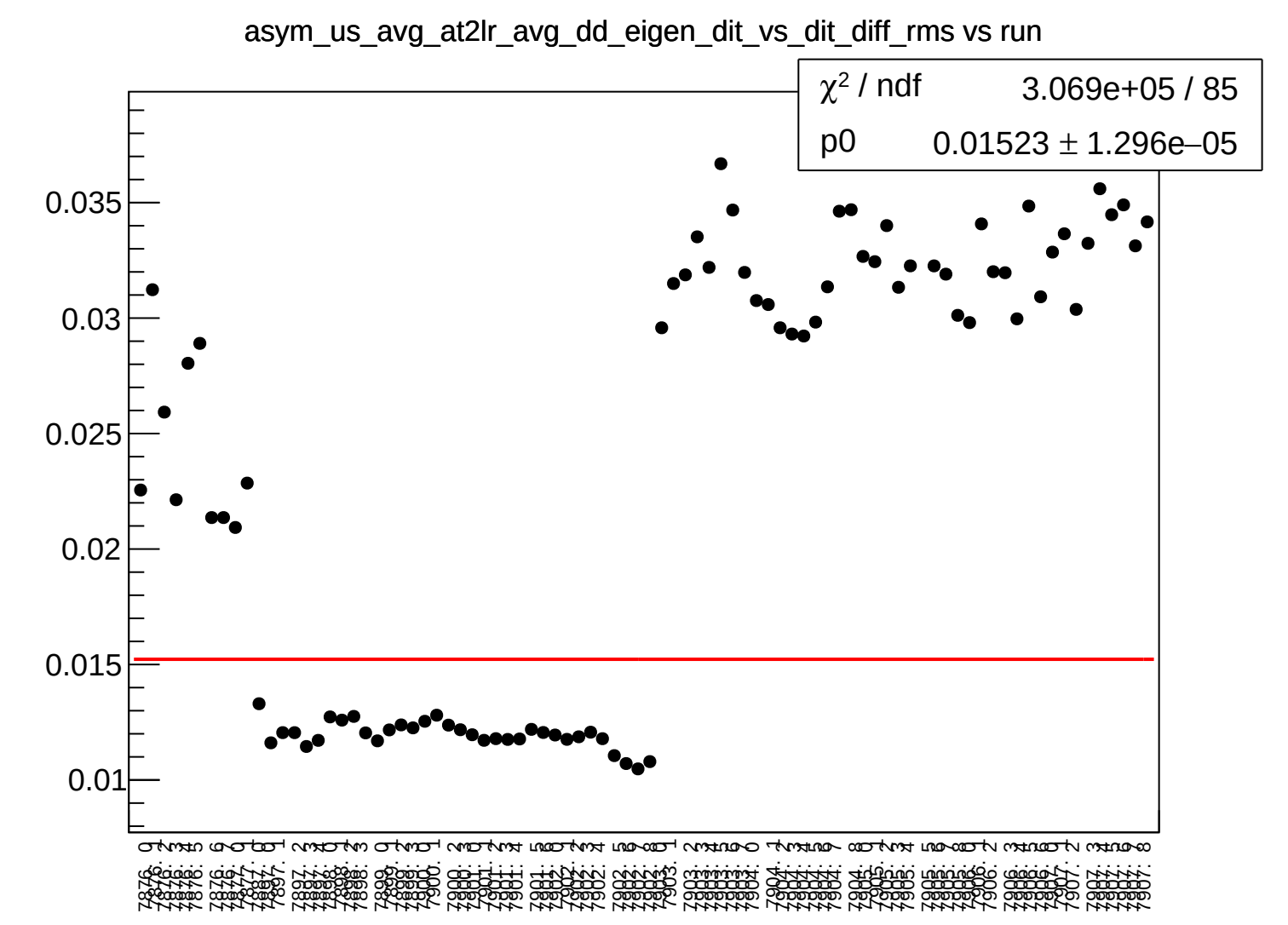

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.76 / 85
p0 −0.1336 ± 0.6243
pull
Entries 86
Mean 178.3
Std Dev 0
pull1D
Entries 86
Mean 0.01108
Std Dev 0.907

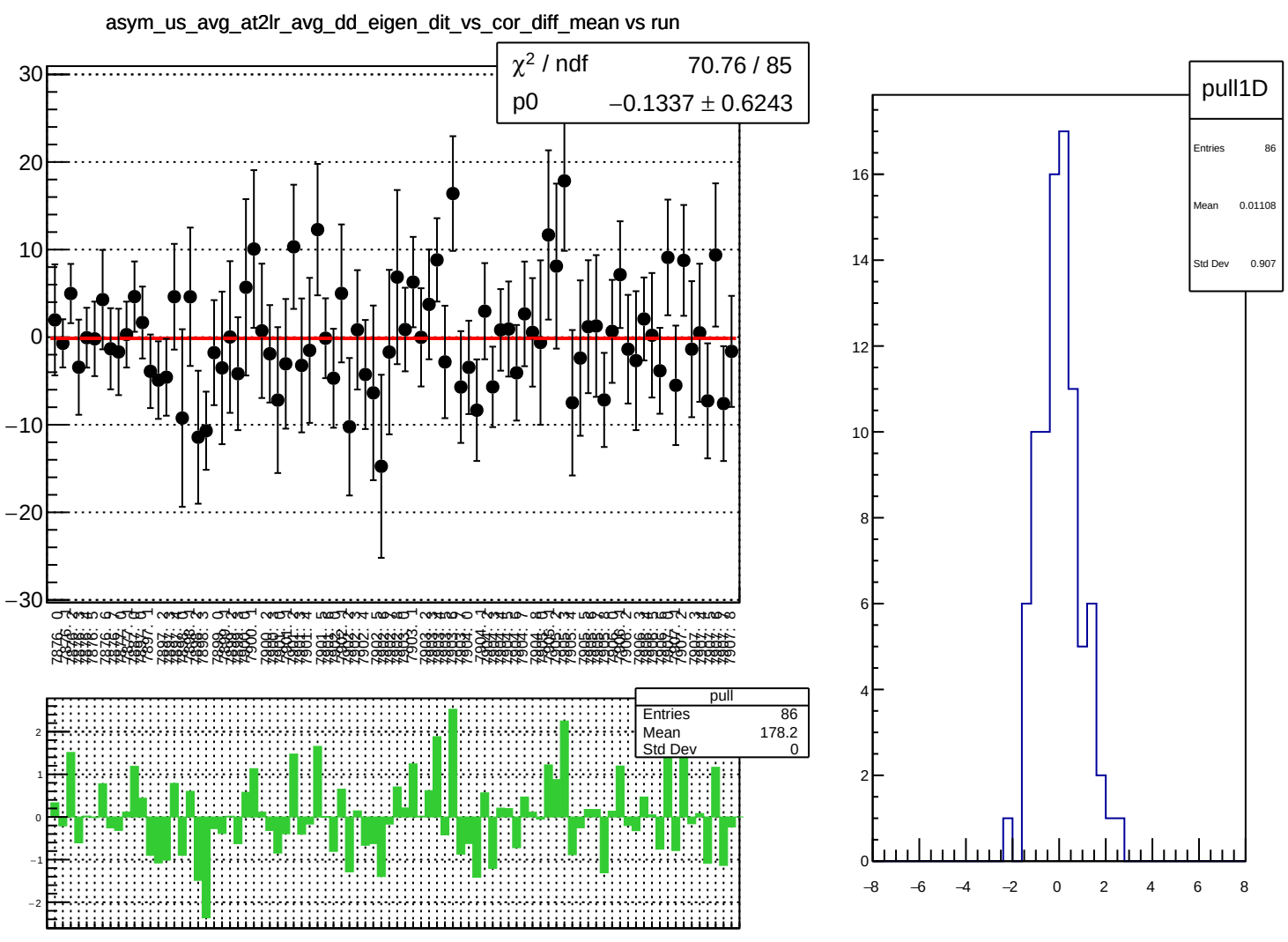

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.37e+05 / 85
p0 549.8 ± 0.4414
1100
1000
900
800
700
600
500
400
300
200

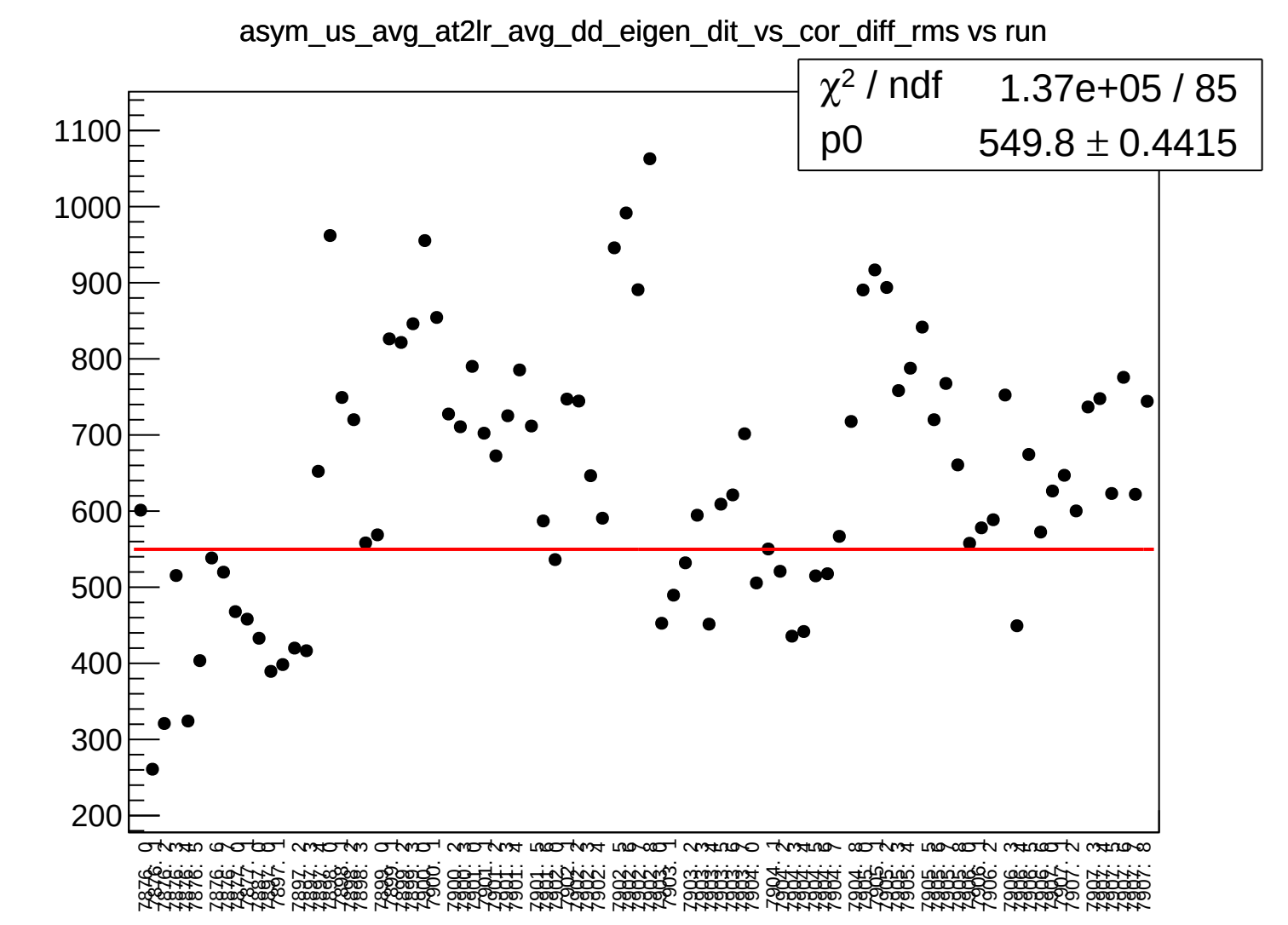

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.76 / 85
p0 −0.1336 ± 0.6243
pull
Entries 86
Mean 178.3
Std Dev 0
pull1D
Entries 86
Mean 0.01108
Std Dev 0.907

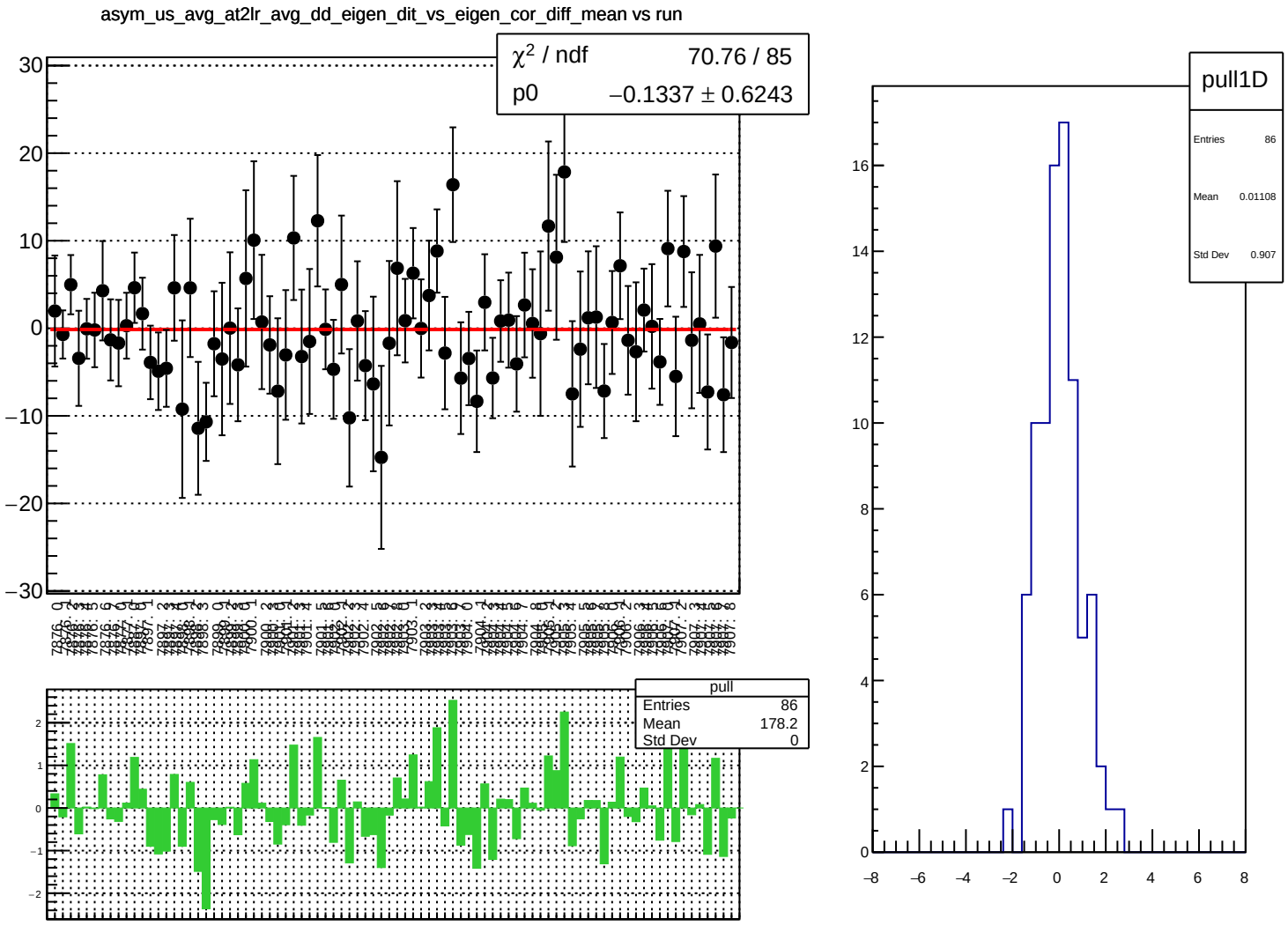

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.37e+05 / 85
p0 549.8 ± 0.4414
1100
1000
900
800
700
600
500
400
300
200

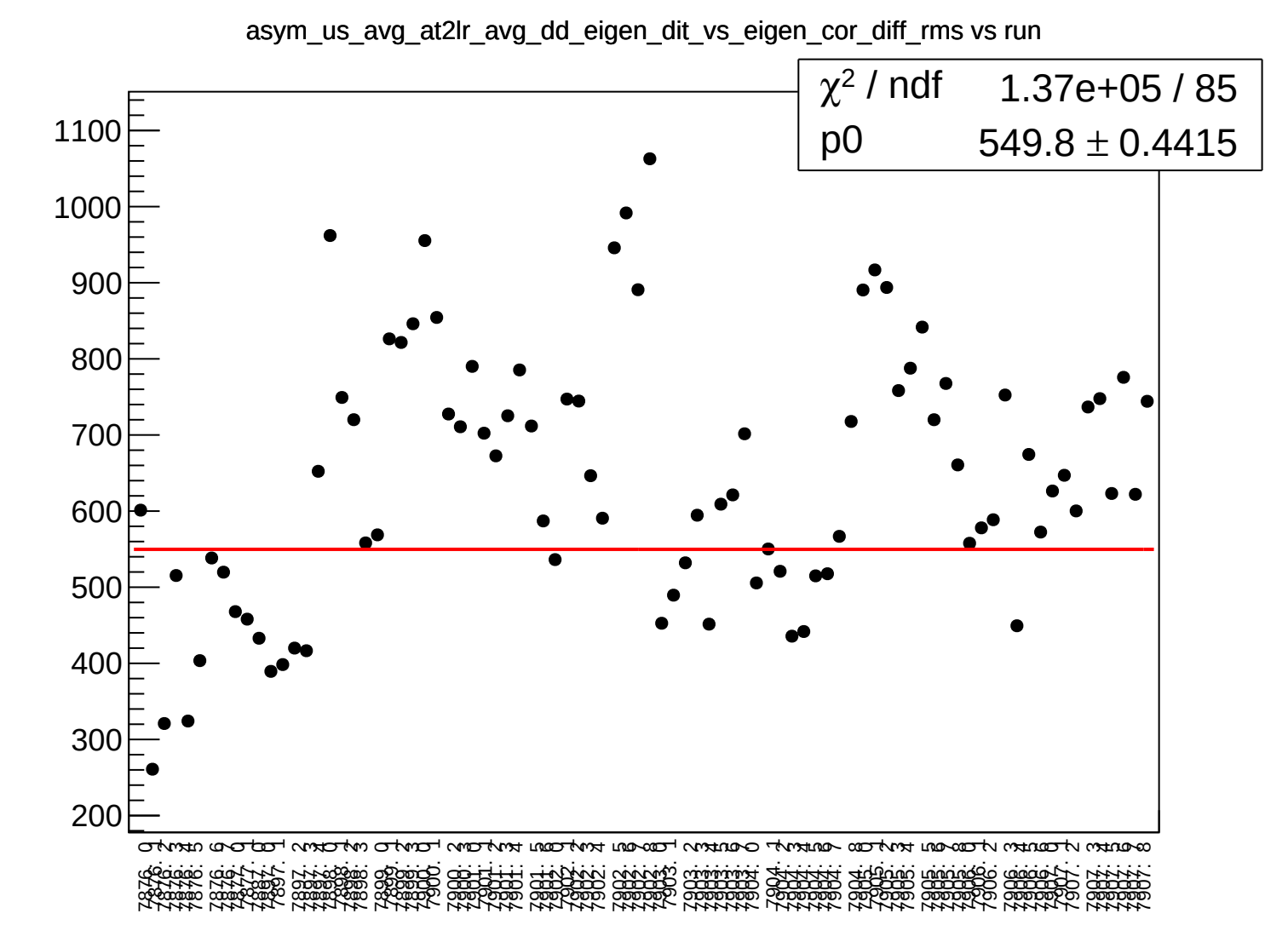

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 86.81 / 85
p0 6.533e−06 ± 1.832e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean 42.96
Std Dev 29.08
pull1D
Entries 86
Mean −0.06555
Std Dev 1.003

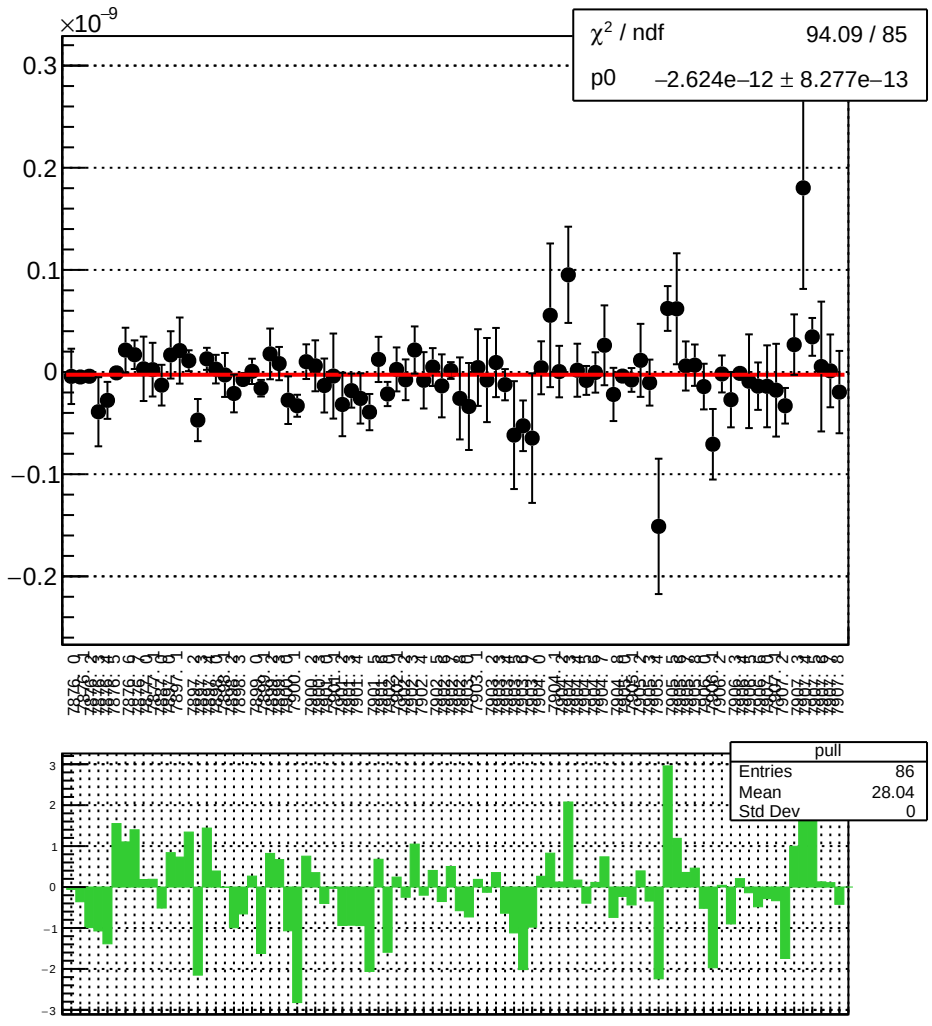

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.069e+05 / 85
p0 0.01523 ± 1.296e−05
0.035
0.03
0.025
0.02
0.015
0.01

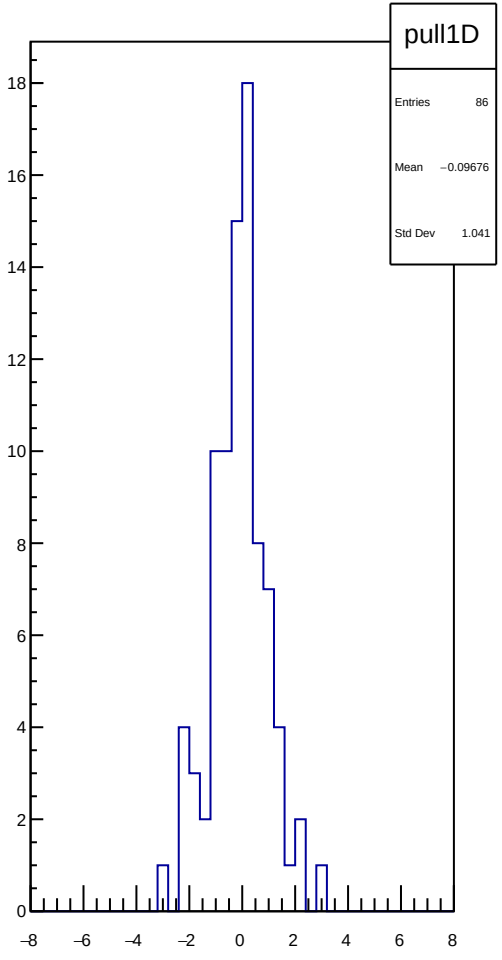

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.76 / 85
p0 −0.1337 ± 0.6243
pull
Entries 86
Mean 178.2
Std Dev 0
pull1D
Entries 86
Mean 0.01108
Std Dev 0.907

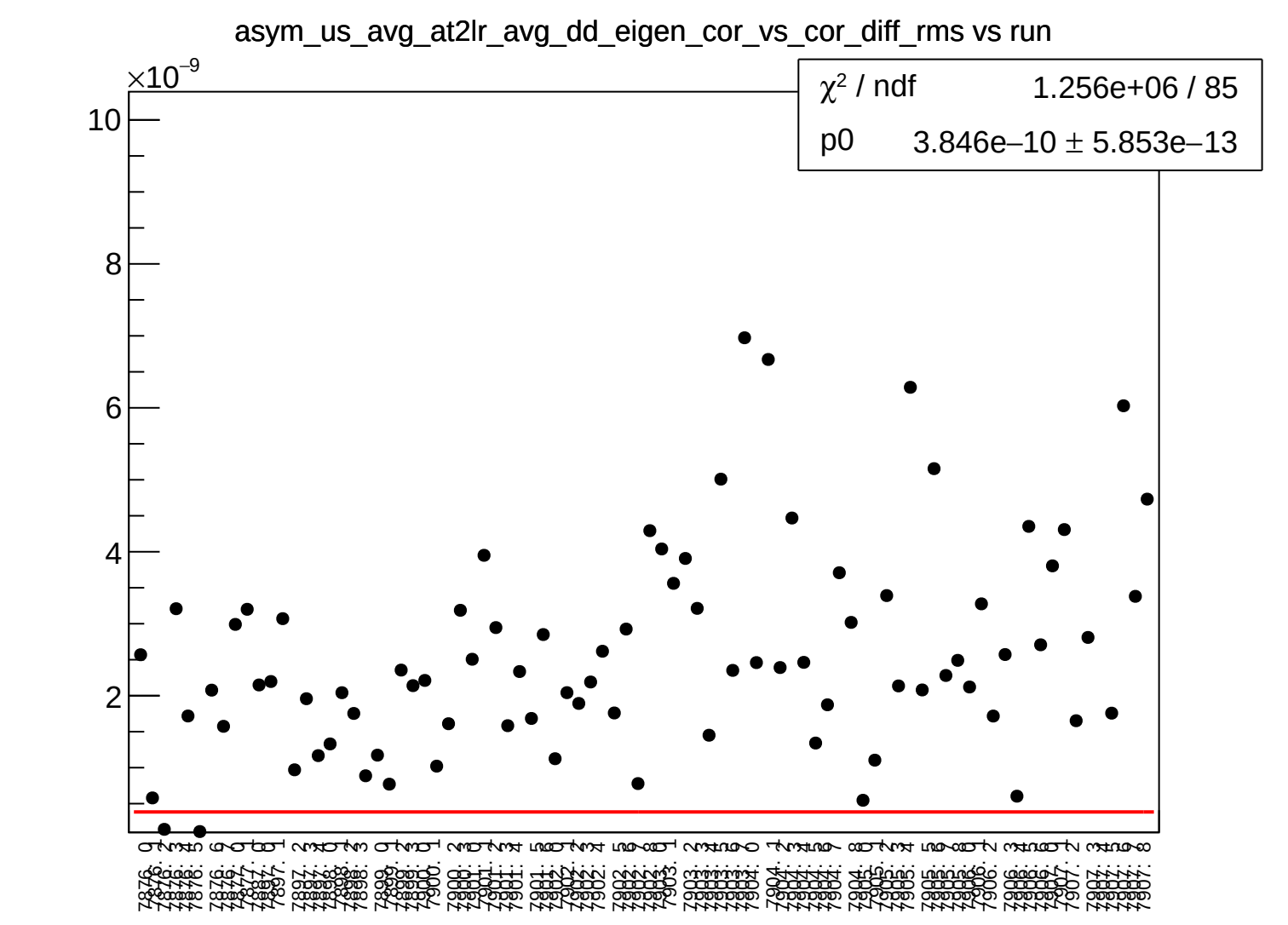

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.37e+05 / 85
p0 549.8 ± 0.4415
1100
1000
900
800
700
600
500
400
300
200

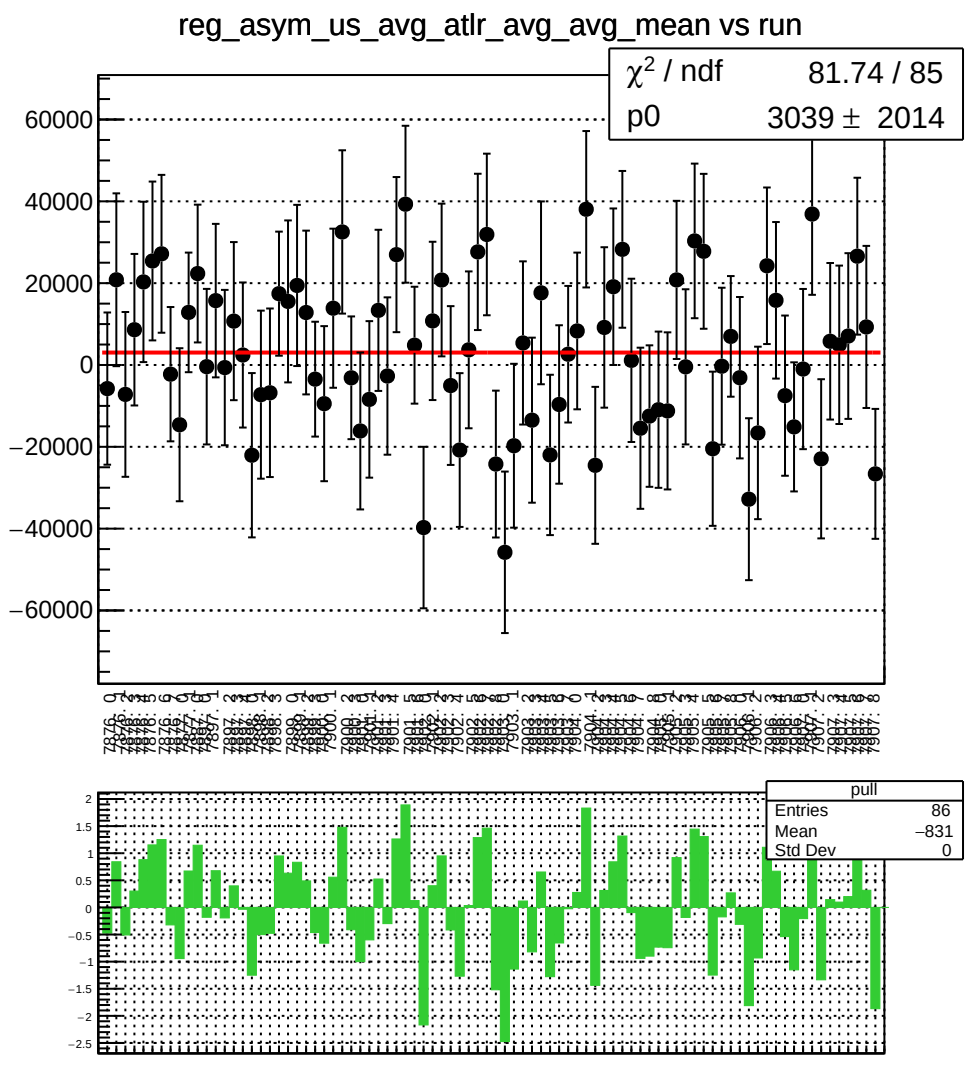

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.76 / 85
p0 −0.1337 ± 0.6243
pull
Entries 86
Mean 178.2
Std Dev 0
pull1D
Entries 86
Mean 0.01108
Std Dev 0.907

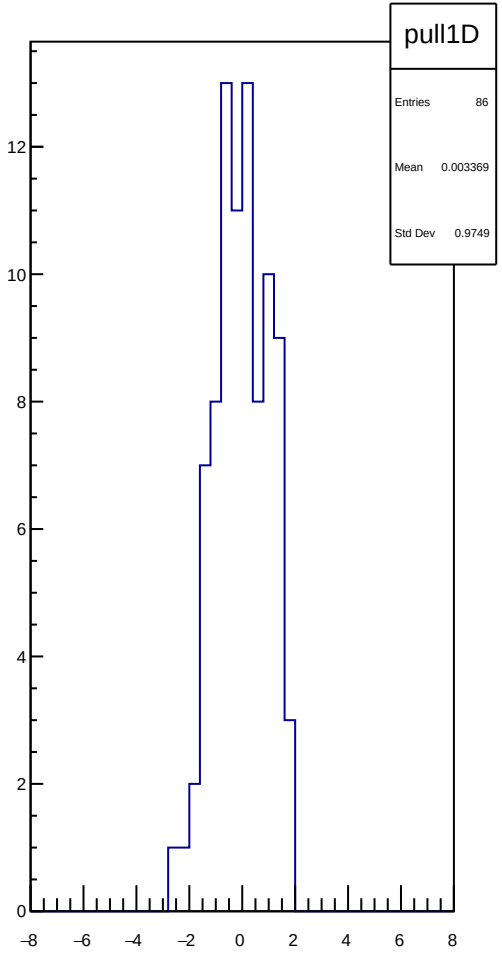

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.37e+05 / 85
p0 549.8 ± 0.4415
1100
1000
900
800
700
600
500
400
300
200

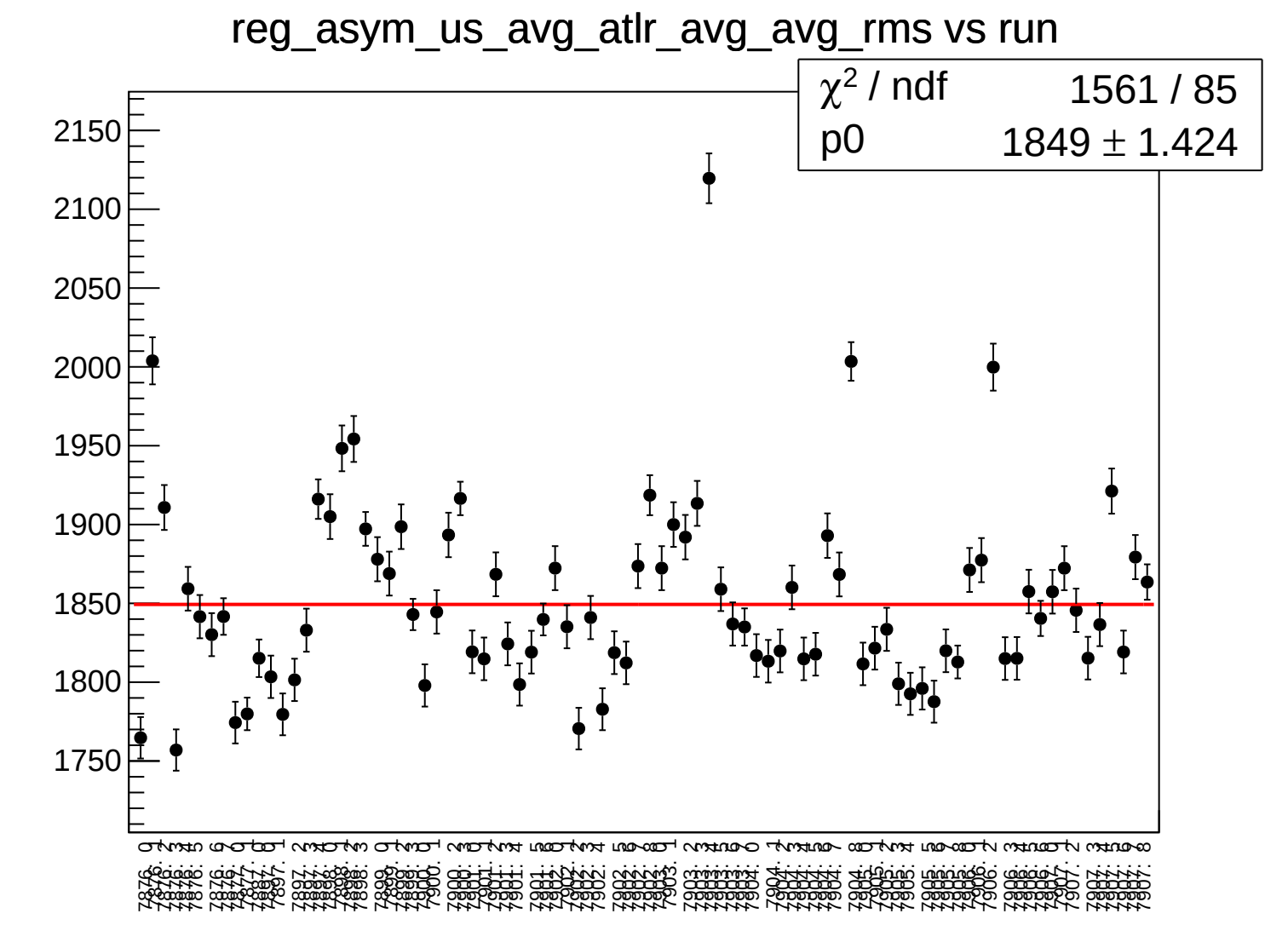

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 94.09 / 85
p0 −2.624e−12 ± 8.277e−13
pull
Entries 86
Mean 28.04
Std Dev 0

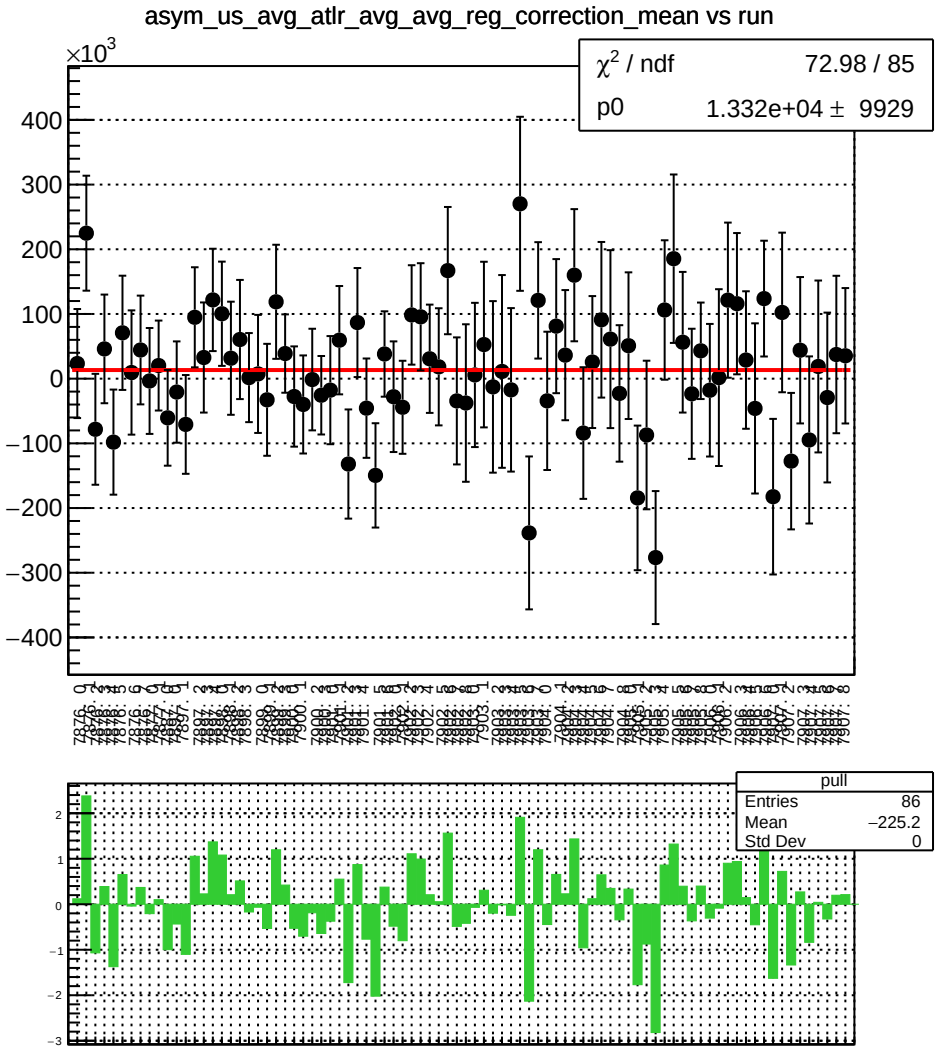

pull1D
Entries 86
Mean −0.09676
Std Dev 1.041

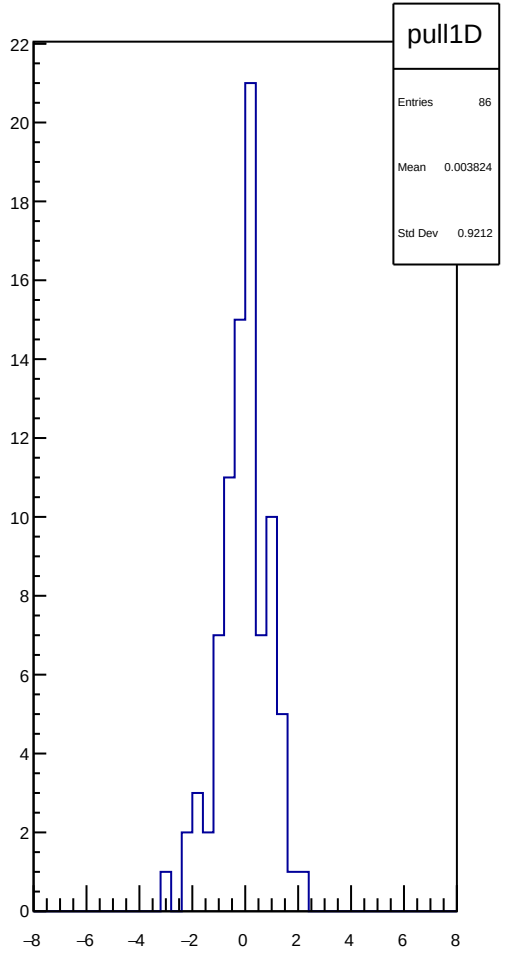

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
10
8
6
4
2
χ² / ndf 1.256e+06 / 85
p0 3.846e−10 ± 5.853e−13

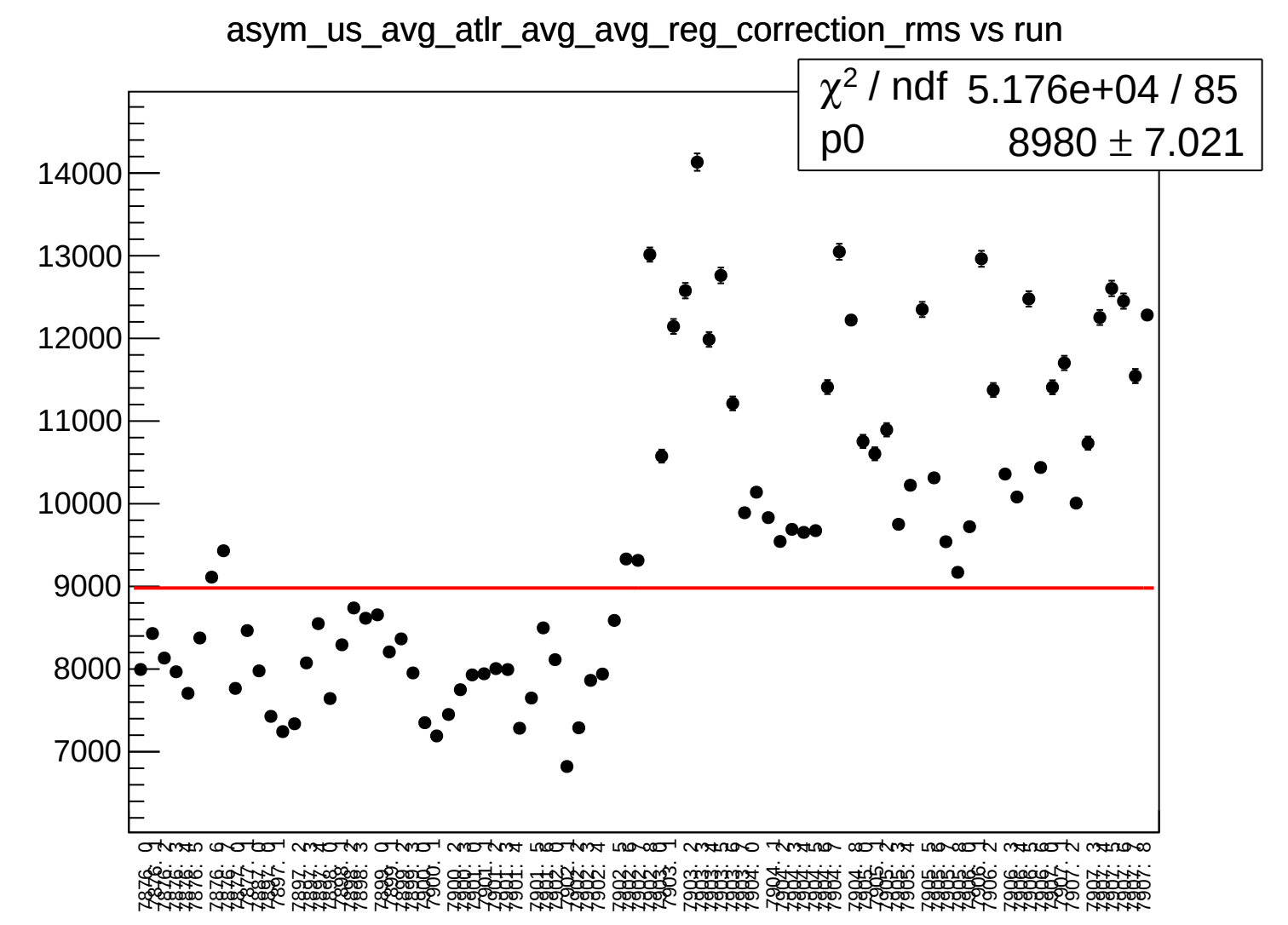

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 81.74 / 85
p0 3039 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −831
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

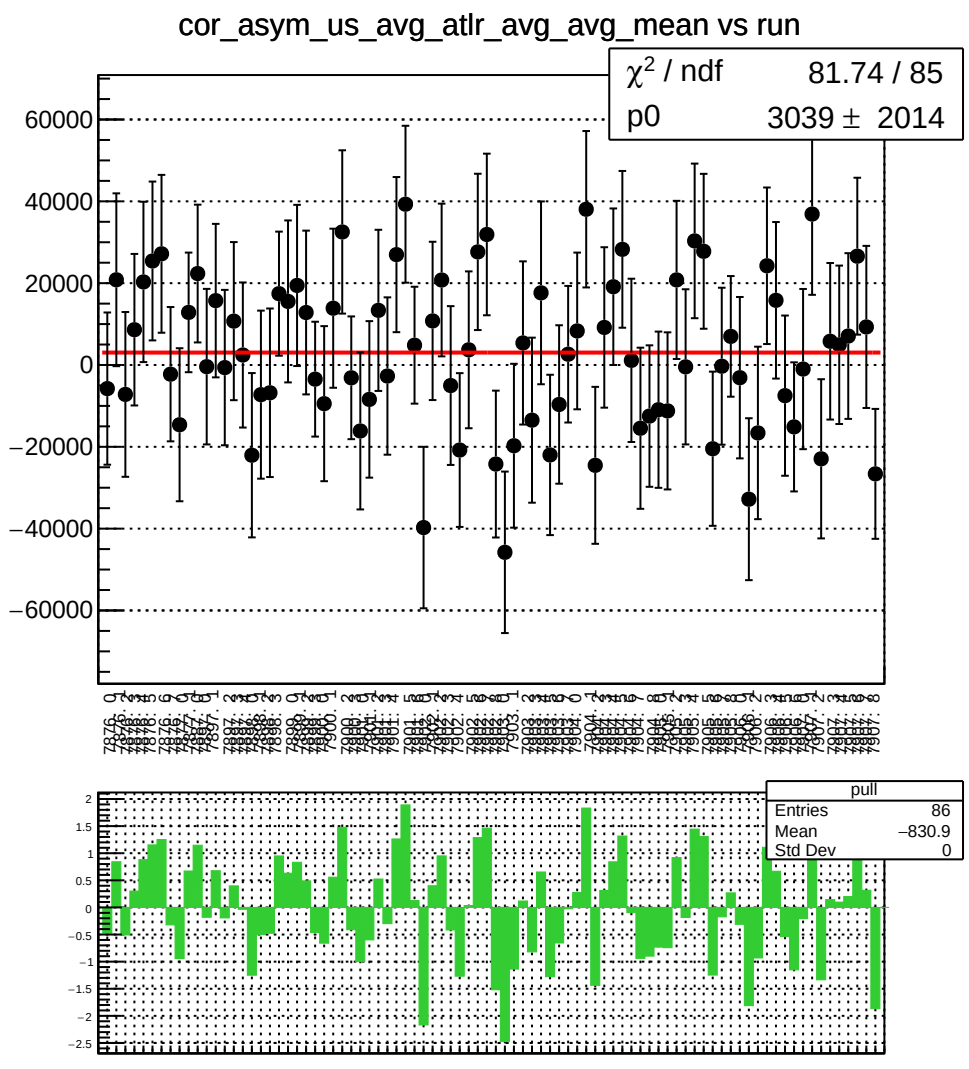

pull1D
Entries 86
Mean 0.003369
Std Dev 0.9749
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

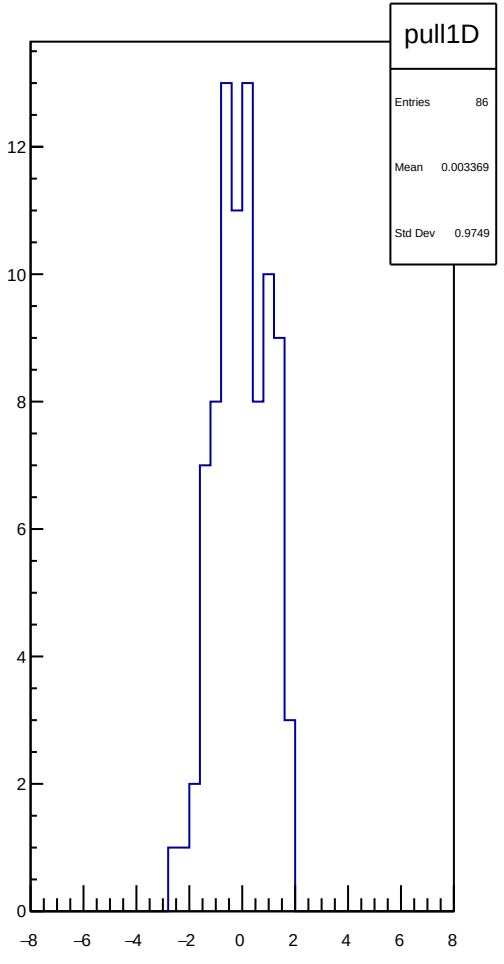

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1561 / 85
p0 1849 ± 1.424
2150
2100
2050
2000
1950
1900
1850
1800
1750

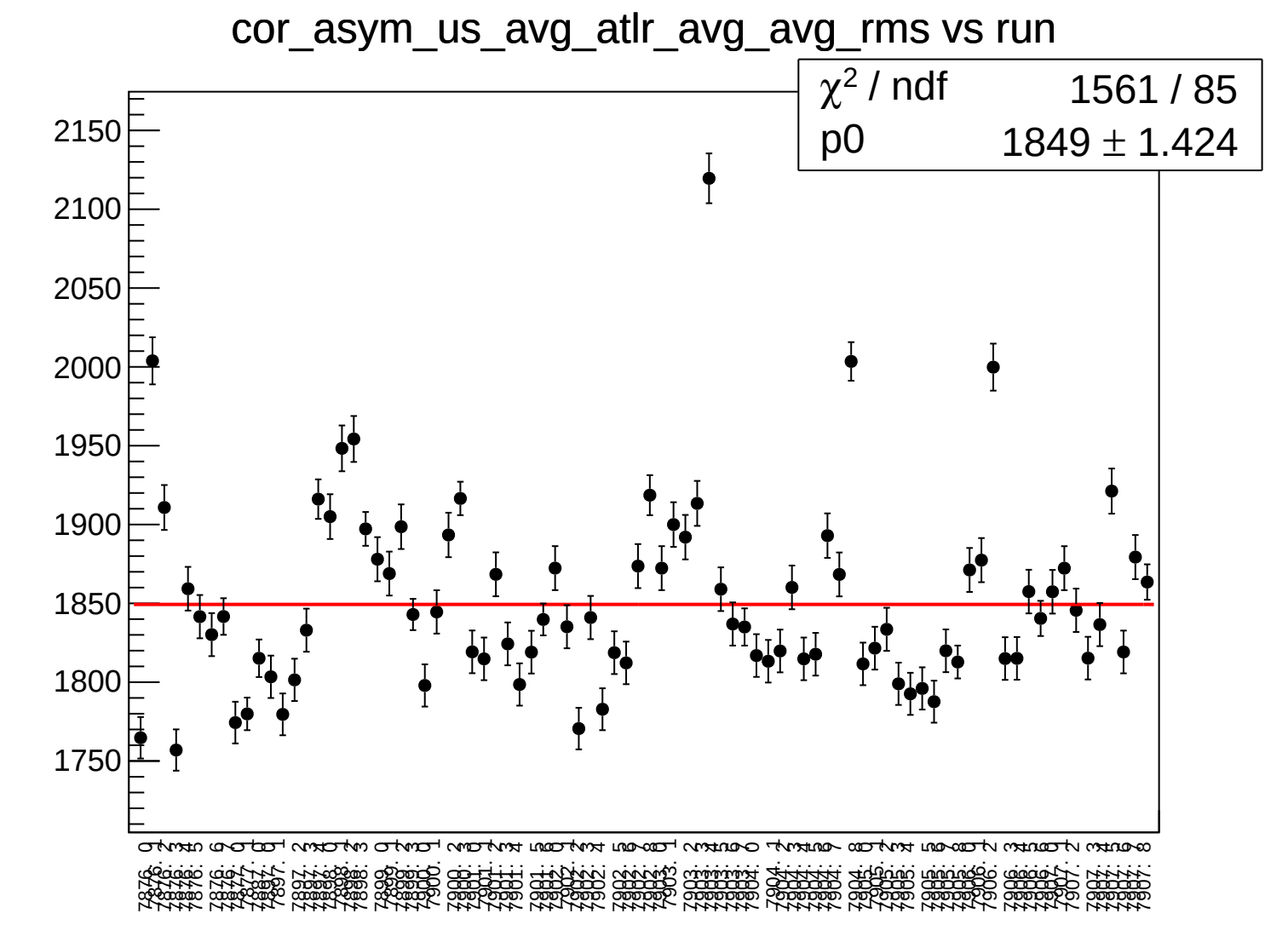

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.98 / 85
p0 1.332e+04 ± 9929
pull
Entries 86
Mean −225.2
Std Dev 0

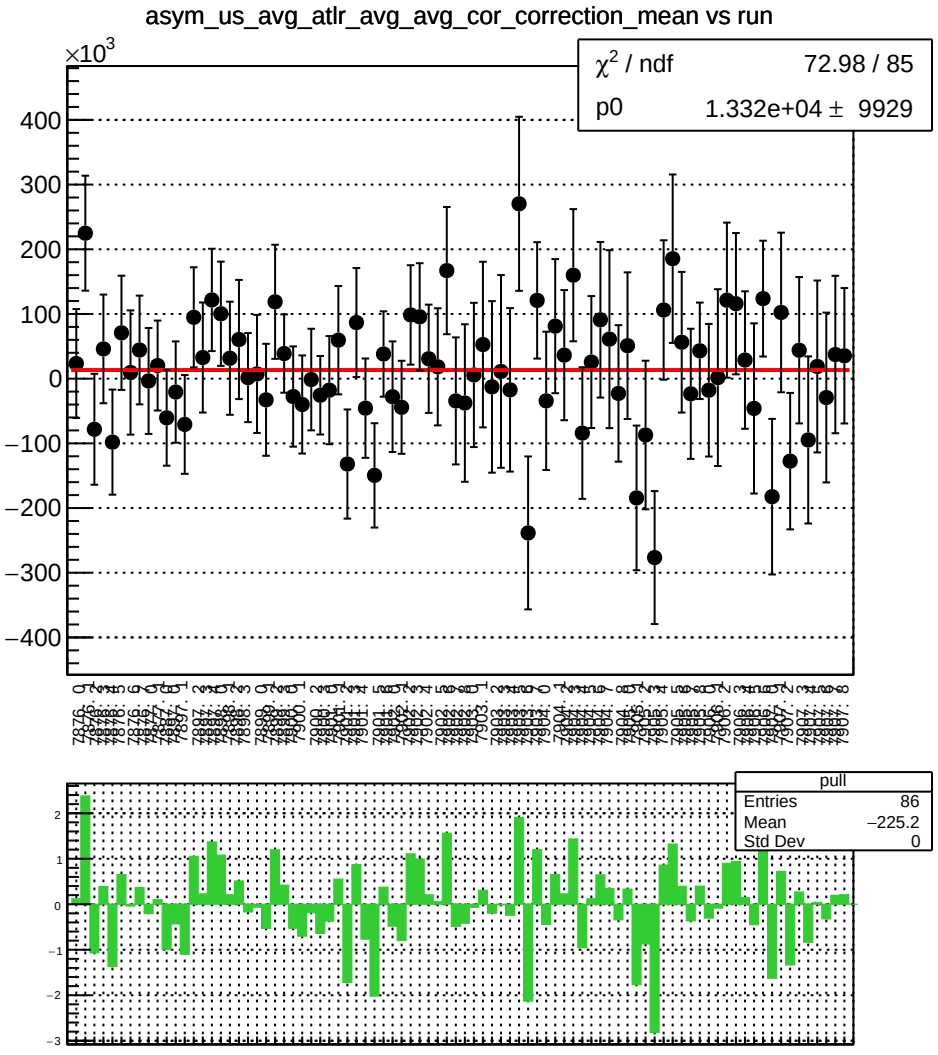

pull1D
Entries 86
Mean 0.003824
Std Dev 0.9212

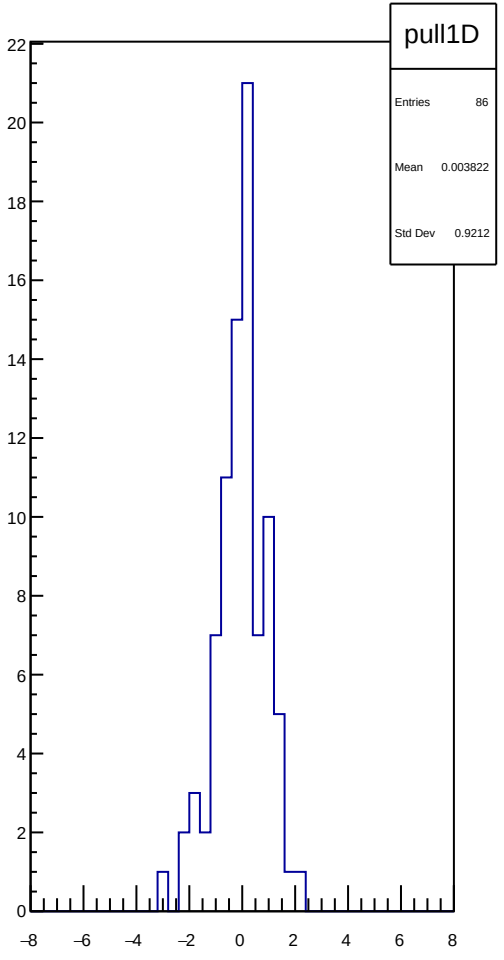

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 5.176e+04 / 85
p0 8980 ± 7.021
14000
13000
12000
11000
10000
9000
8000
7000

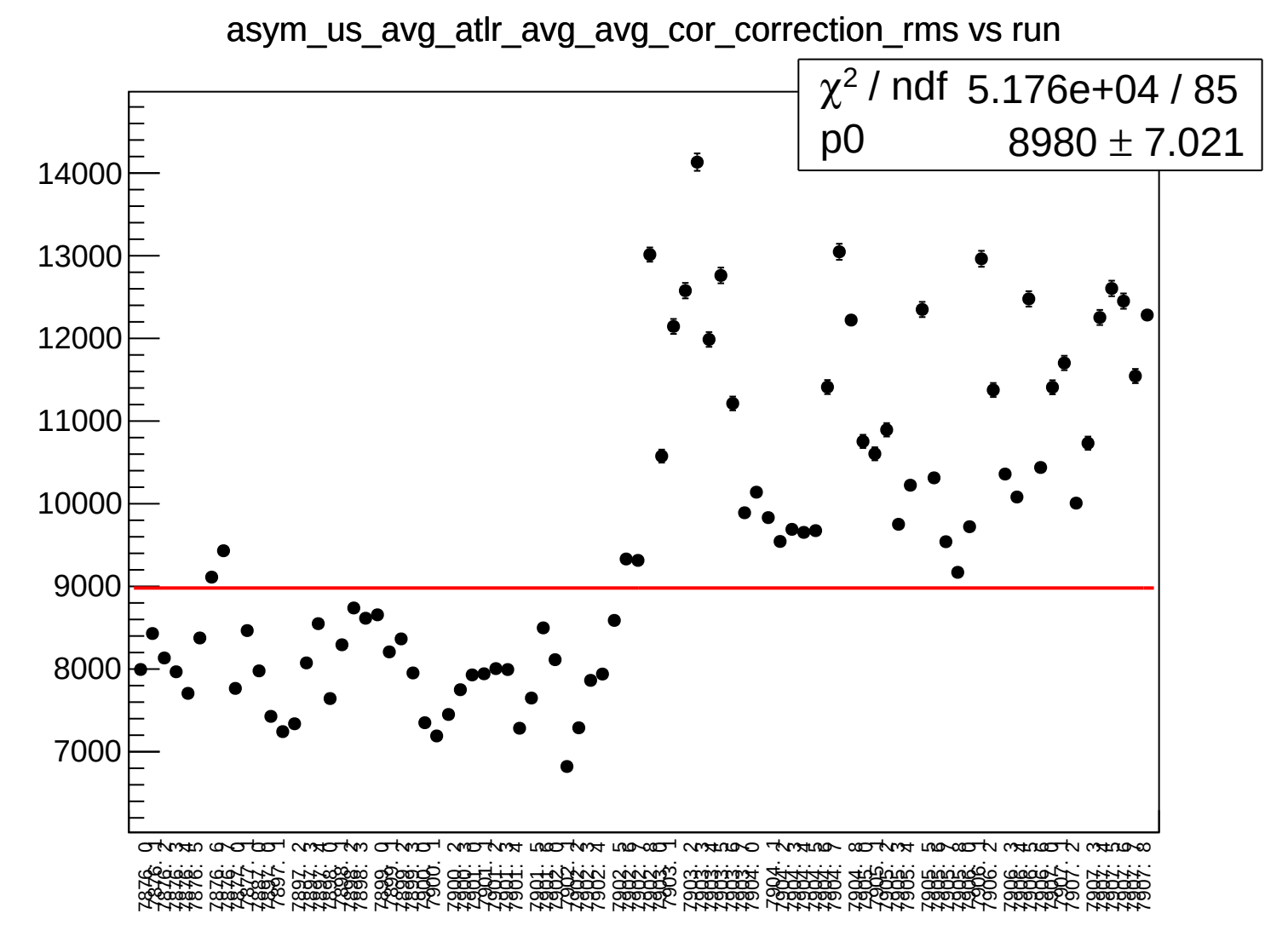

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 81.74 / 85
p0 3039 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −830.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

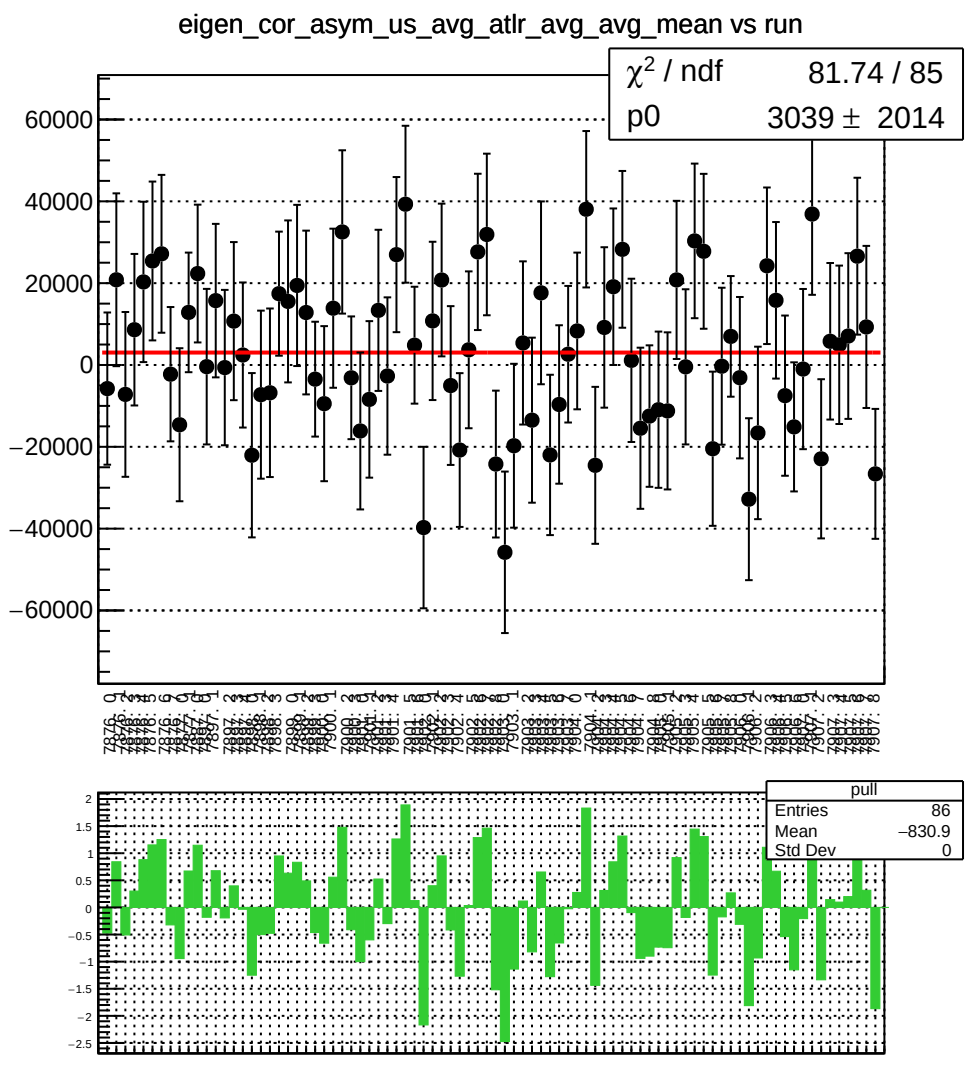

pull1D
Entries 86
Mean 0.003369
Std Dev 0.9749
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

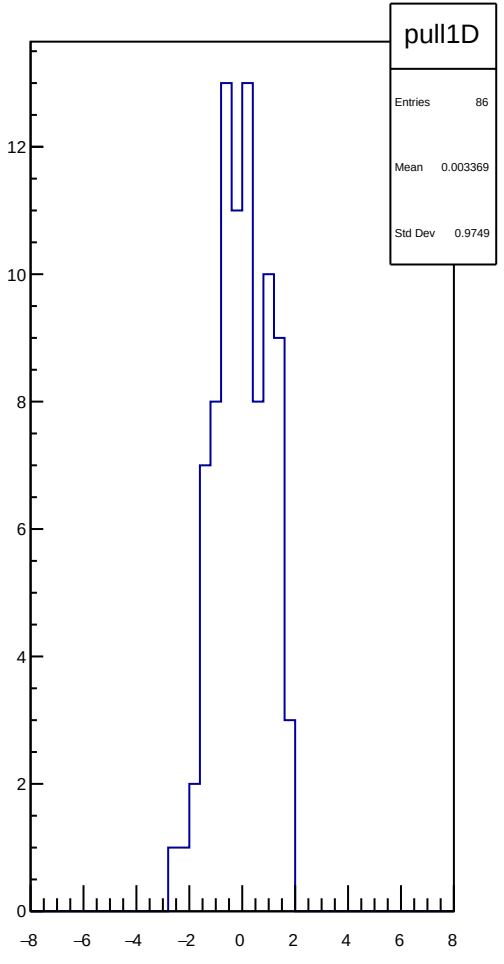

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 1561 / 85
p0 1849 ± 1.424
2150
2100
2050
2000
1950
1900
1850
1800
1750

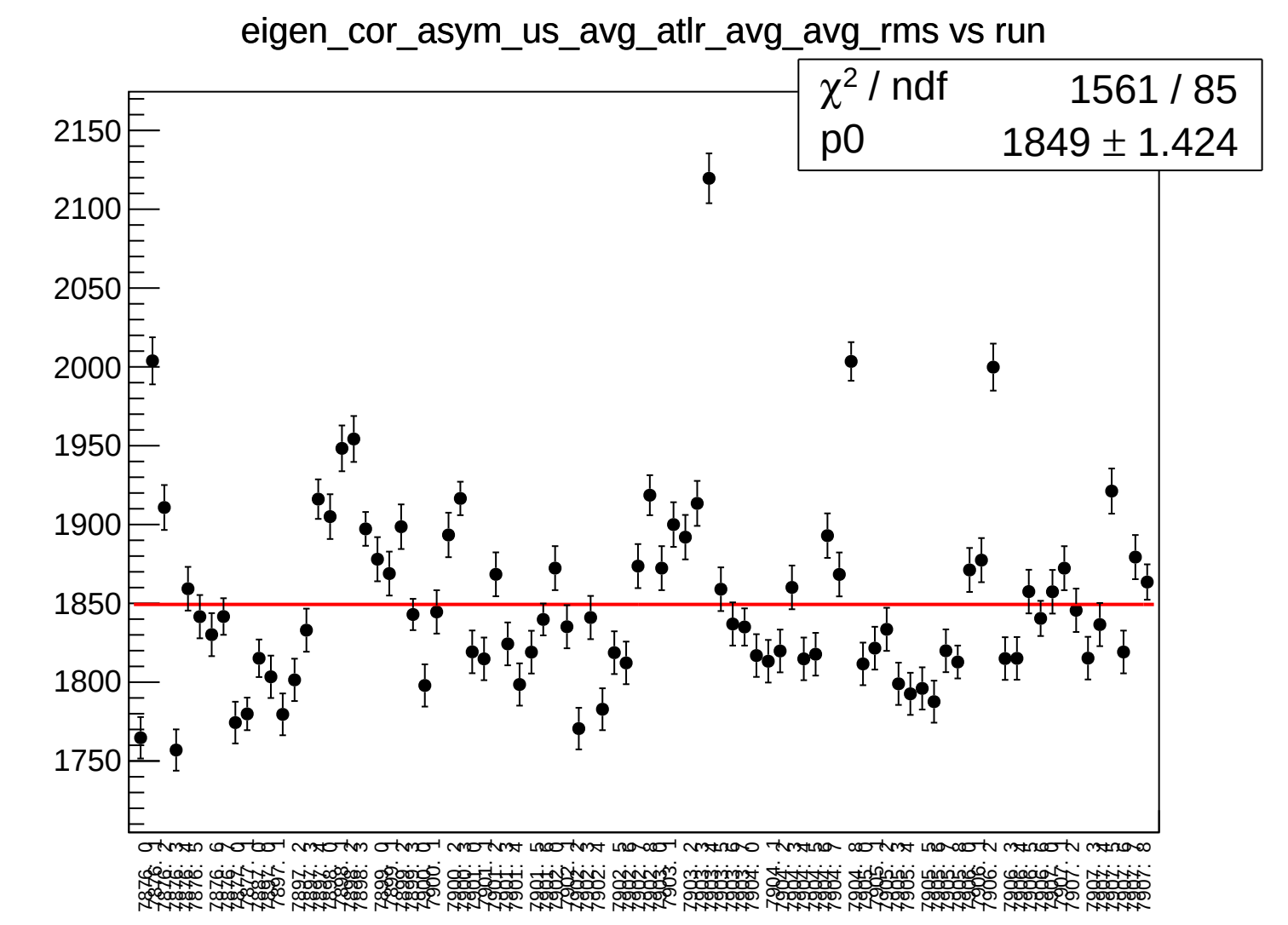

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 72.98 / 85
p0 1.332e+04 ± 9929
pull
Entries 86
Mean −225.2
Std Dev 0

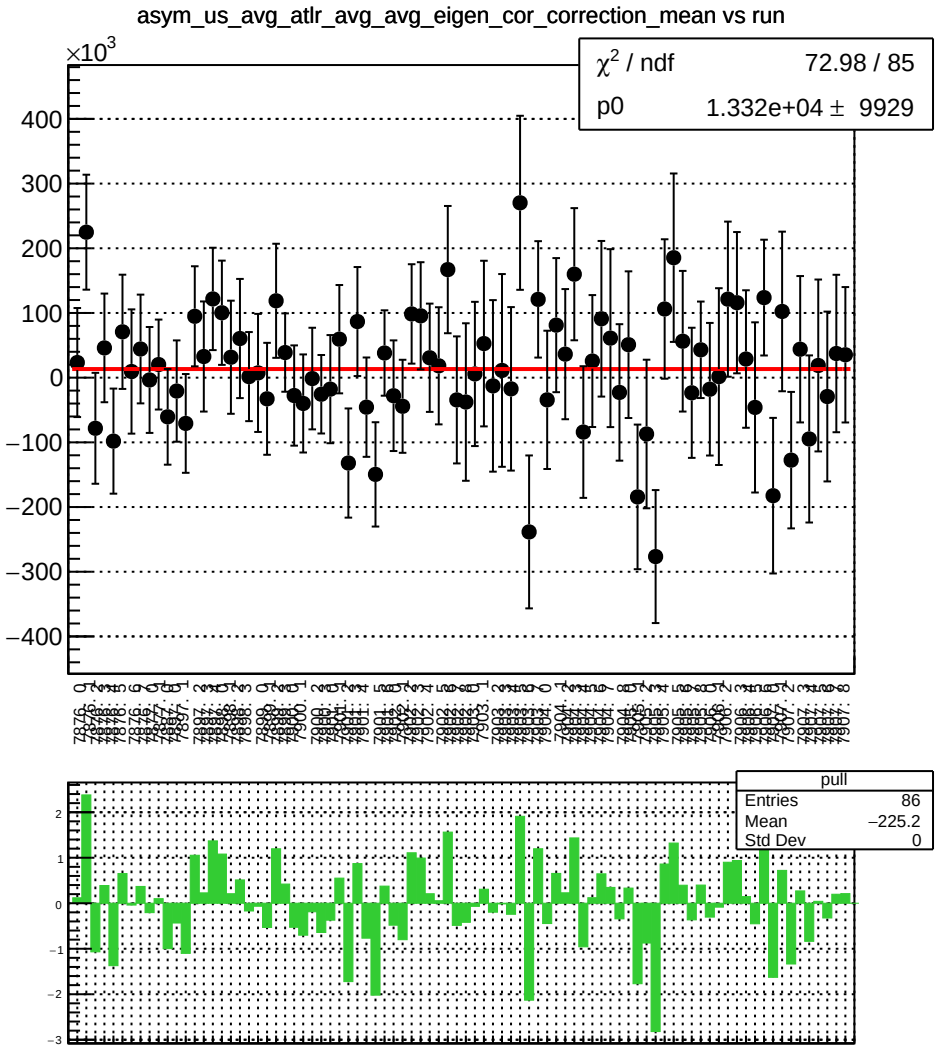

pull1D
Entries 86
Mean 0.003822
Std Dev 0.9212

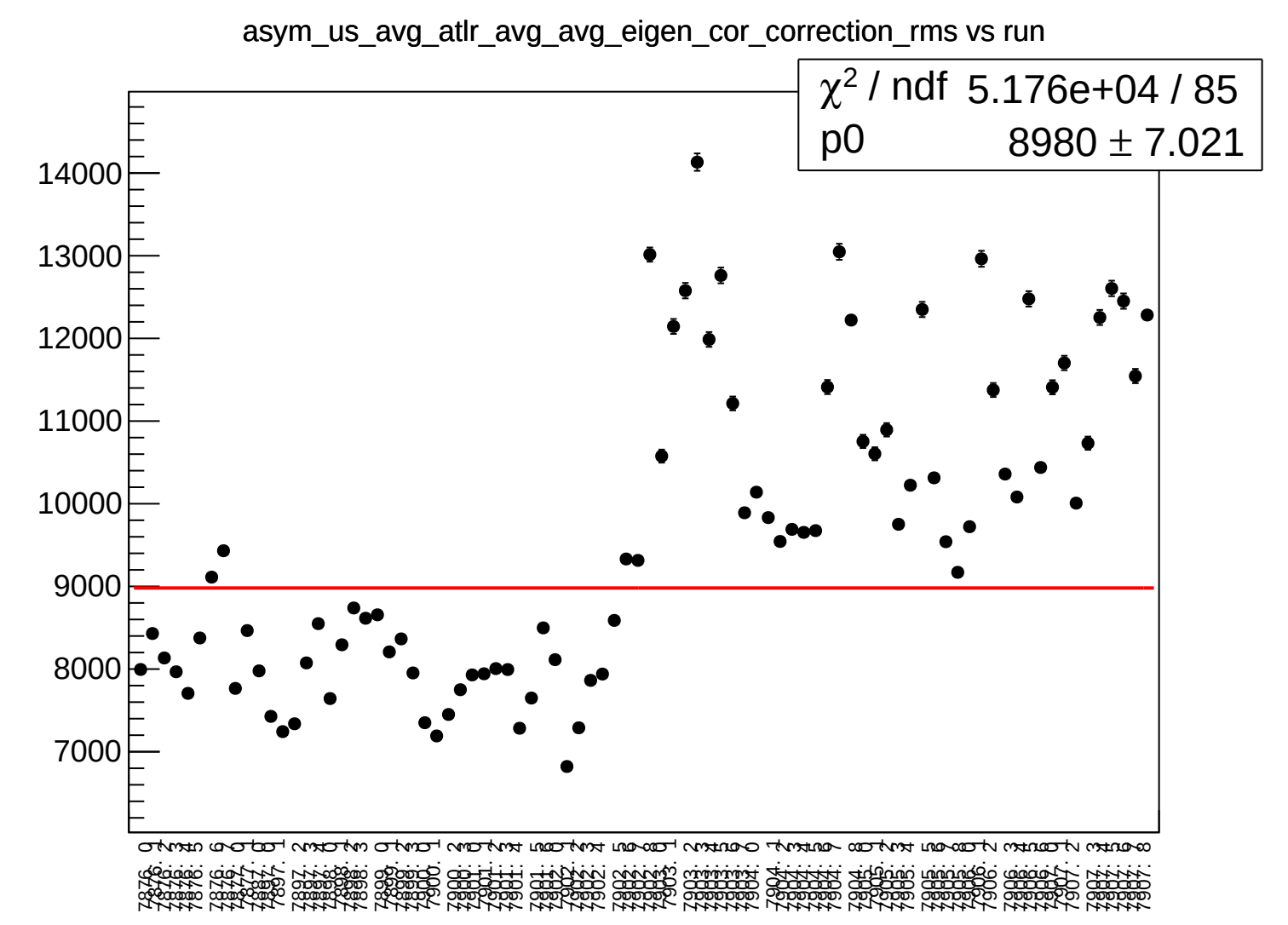

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 5.176e+04 / 85
p0 8980 ± 7.021
14000
13000
12000
11000
10000
9000
8000
7000

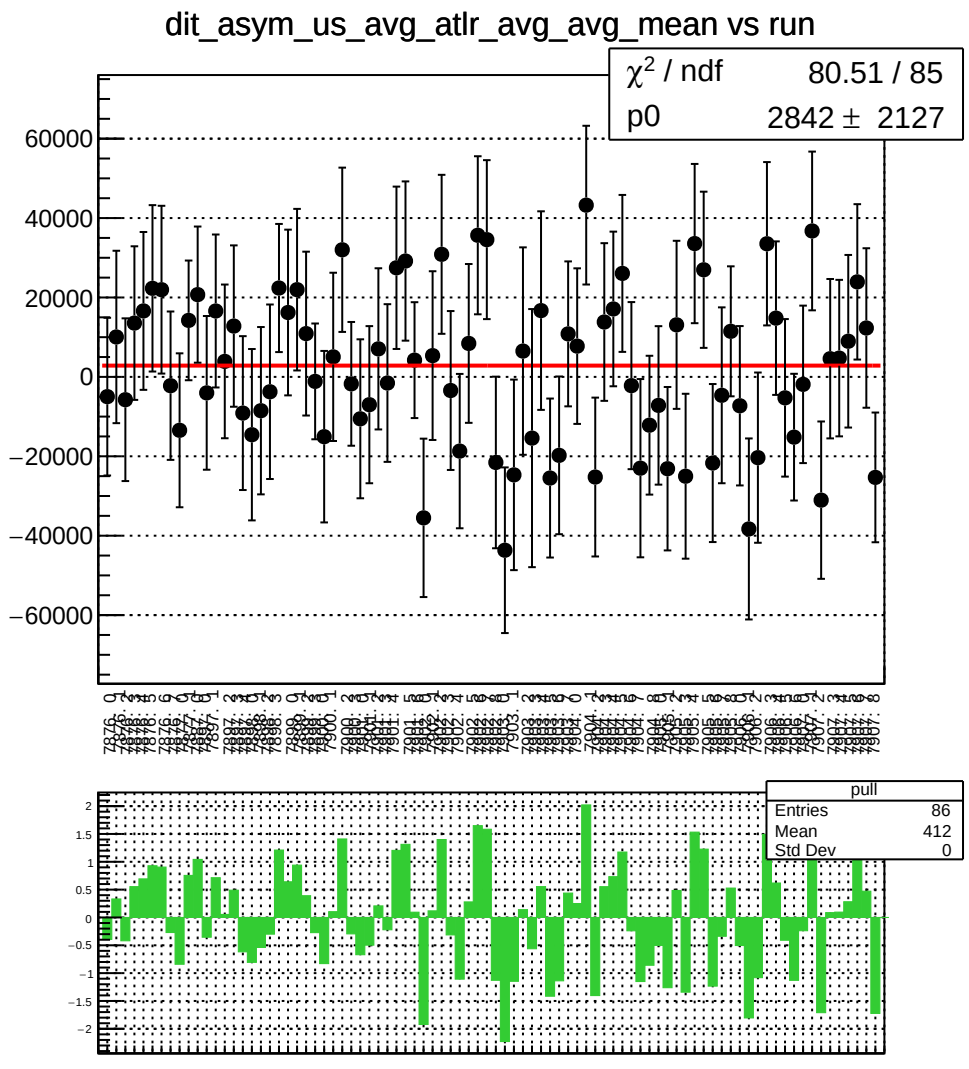

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 81.74 / 85
p0 3039 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −830.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

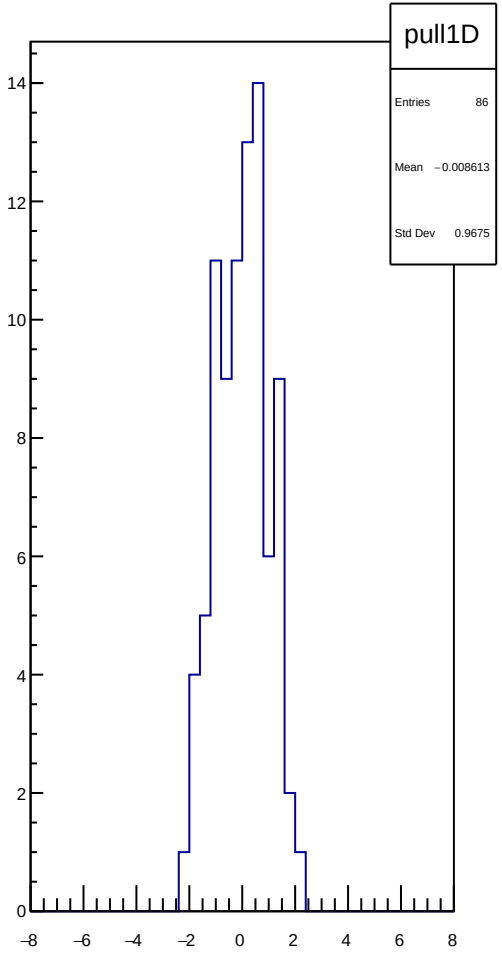

pull1D
Entries 86
Mean 0.003369
Std Dev 0.9749
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

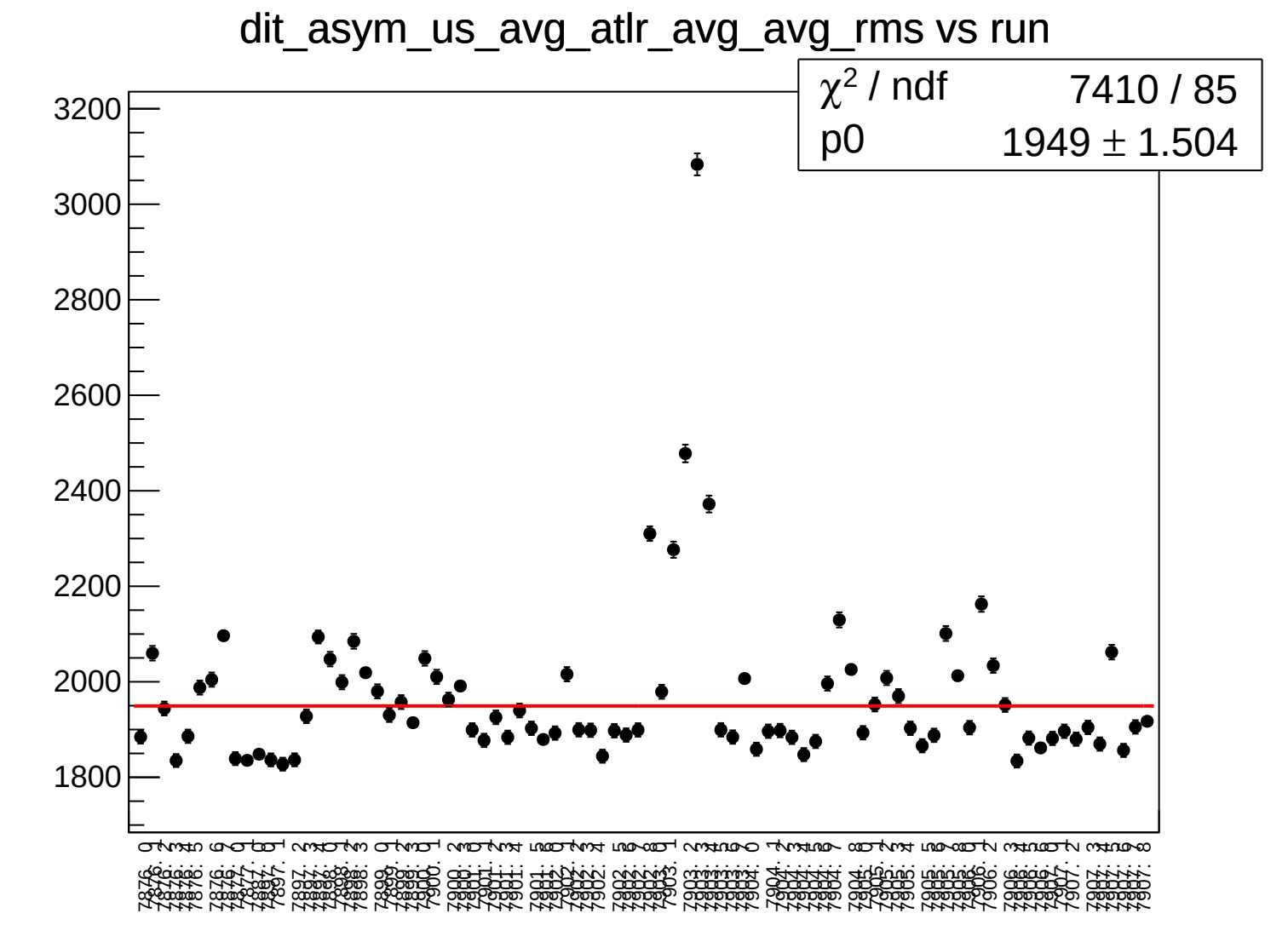

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 1561 / 85
p0 1849 ± 1.424
2150
2100
2050
2000
1950
1900
1850
1800
1750

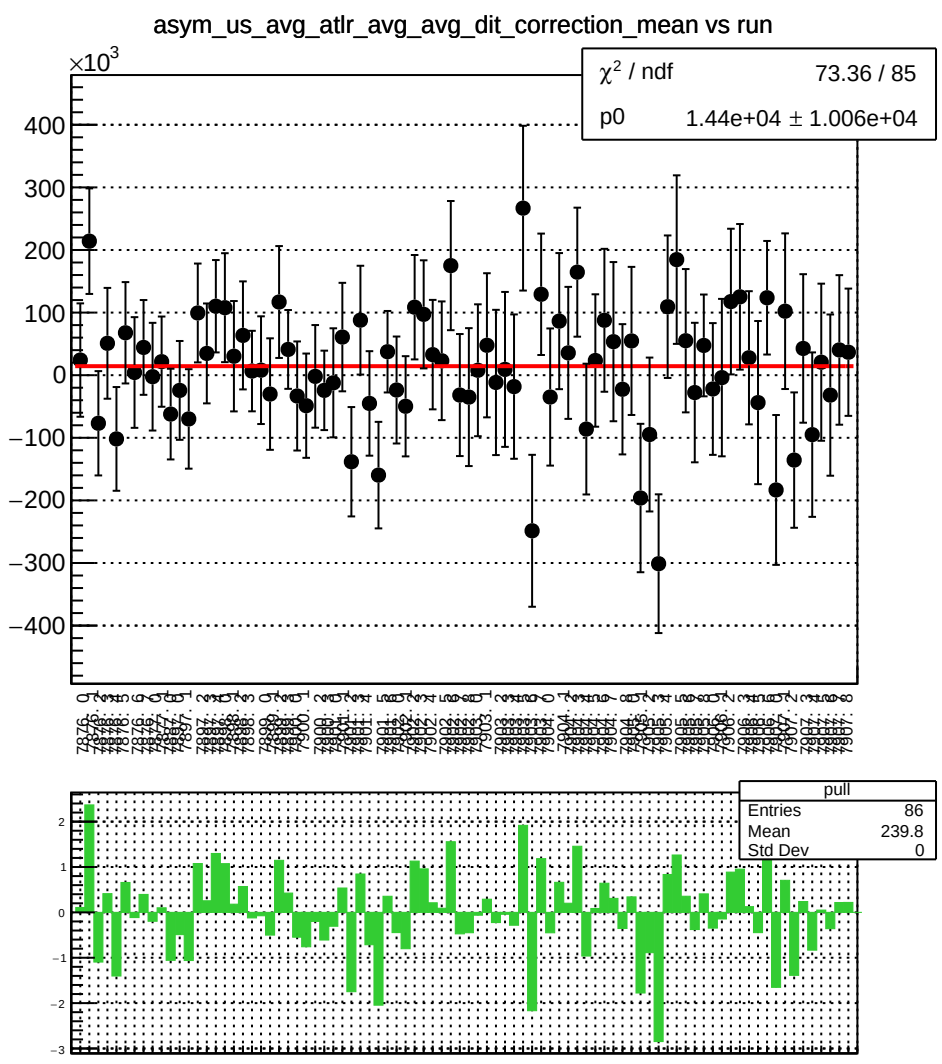

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.98 / 85
p0 1.332e+04 ± 9929
pull
Entries 86
Mean −225.2
Std Dev 0
pull1D
Entries 86
Mean 0.003822
Std Dev 0.9212

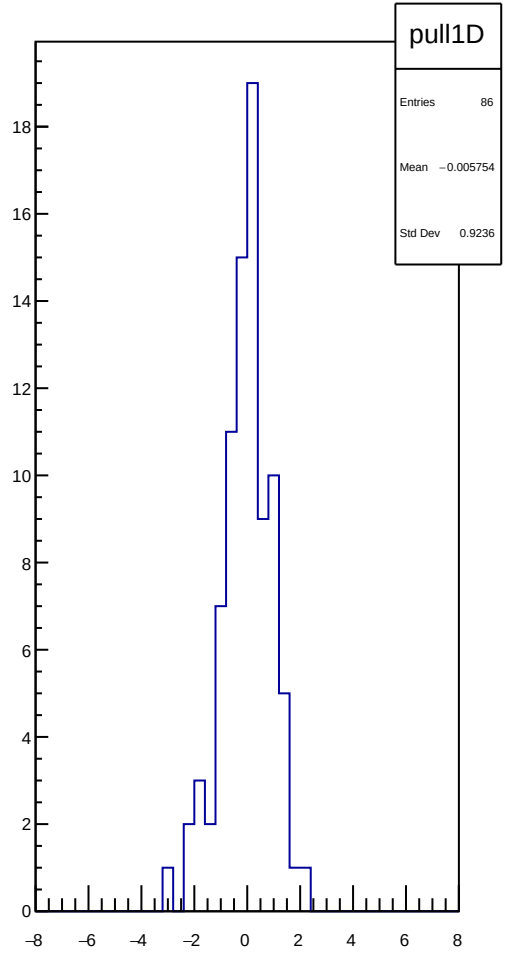

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.176e+04 / 85
p0 8980 ± 7.021
14000
13000
12000
11000
10000
9000
8000
7000

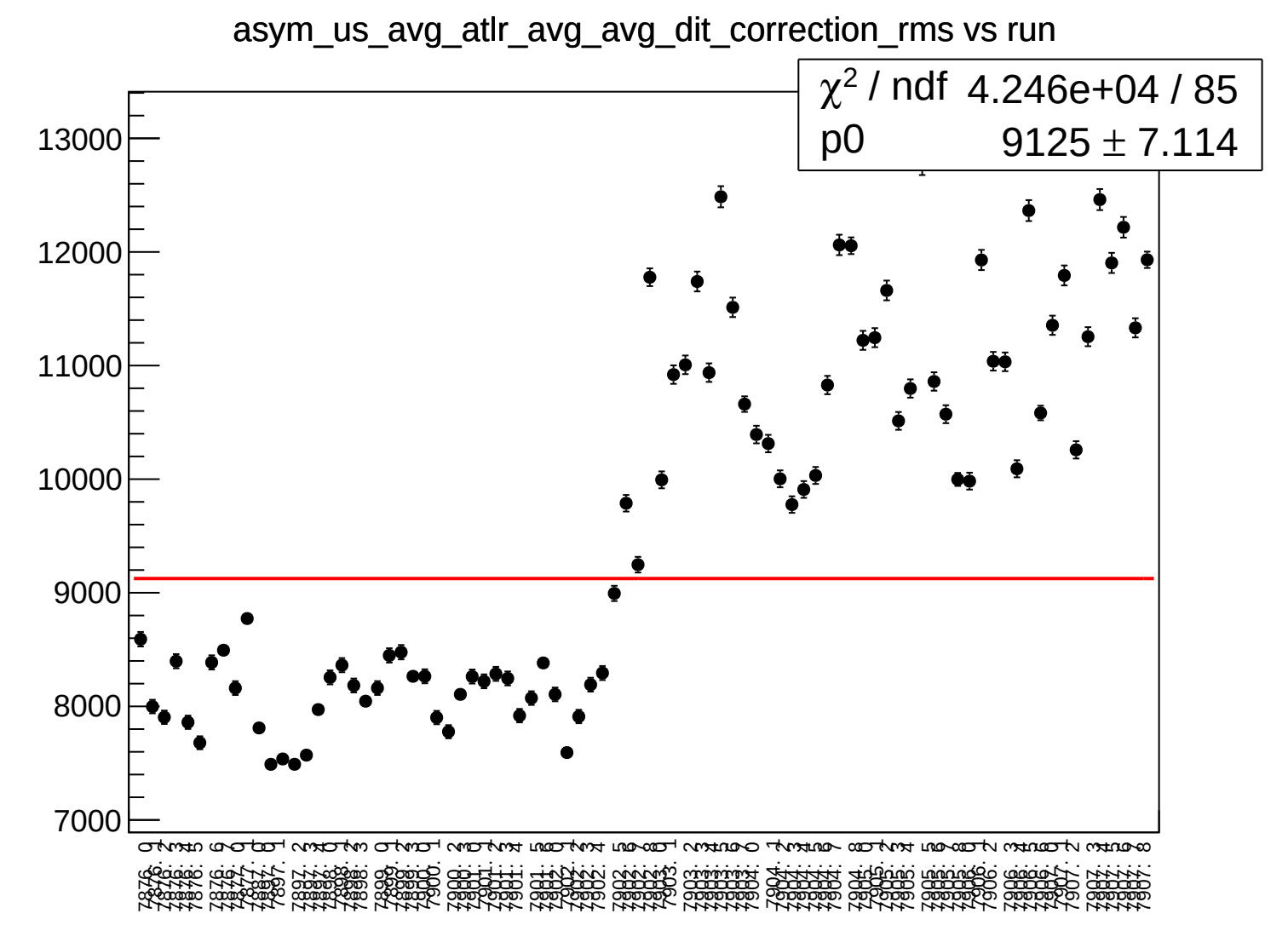

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 80.51 / 85
p0 2842 ± 2127
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 412
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

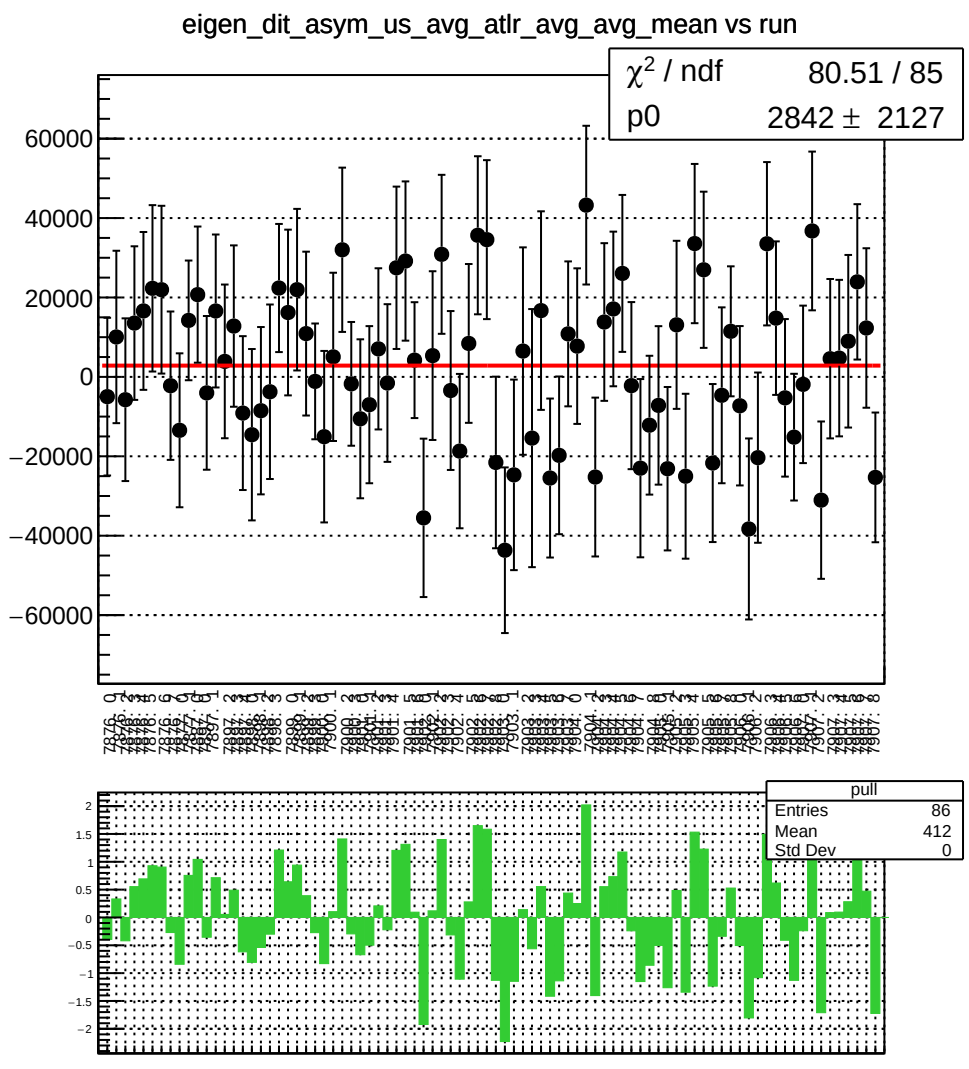

pull1D
Entries 86
Mean −0.008613
Std Dev 0.9675
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

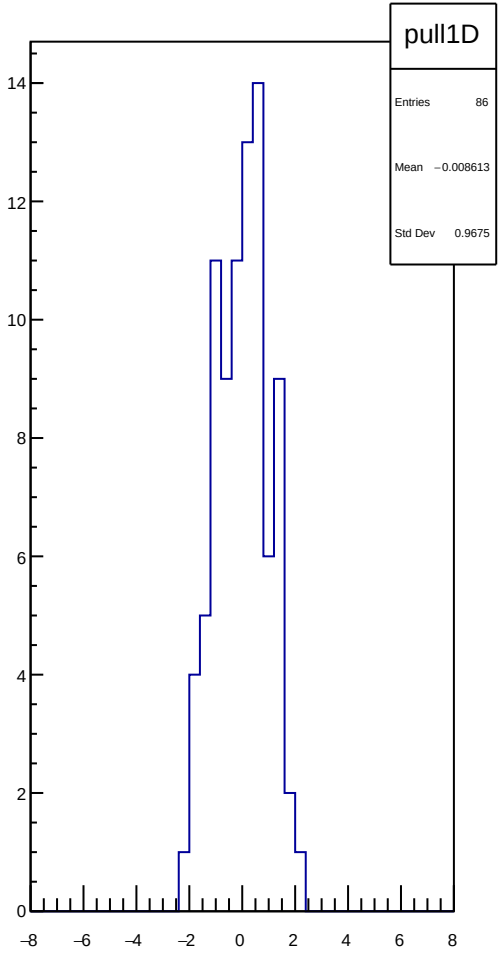

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 7410 / 85
p0 1949 ± 1.504
3200
3000
2800
2600
2400
2200
2000
1800

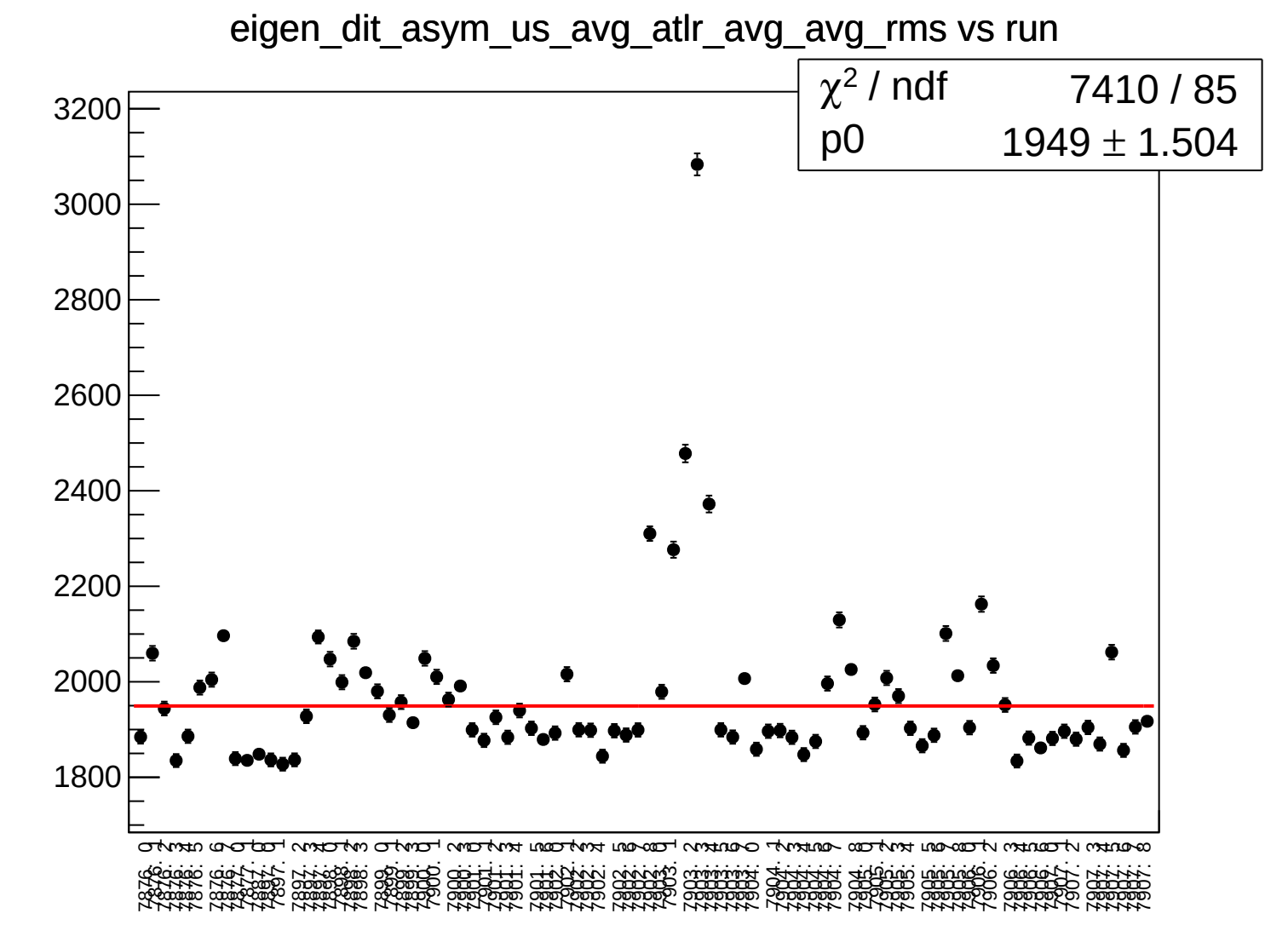

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.36 / 85
p0 1.44e+04 ± 1.006e+04
pull
Entries 86
Mean 239.8
Std Dev 0

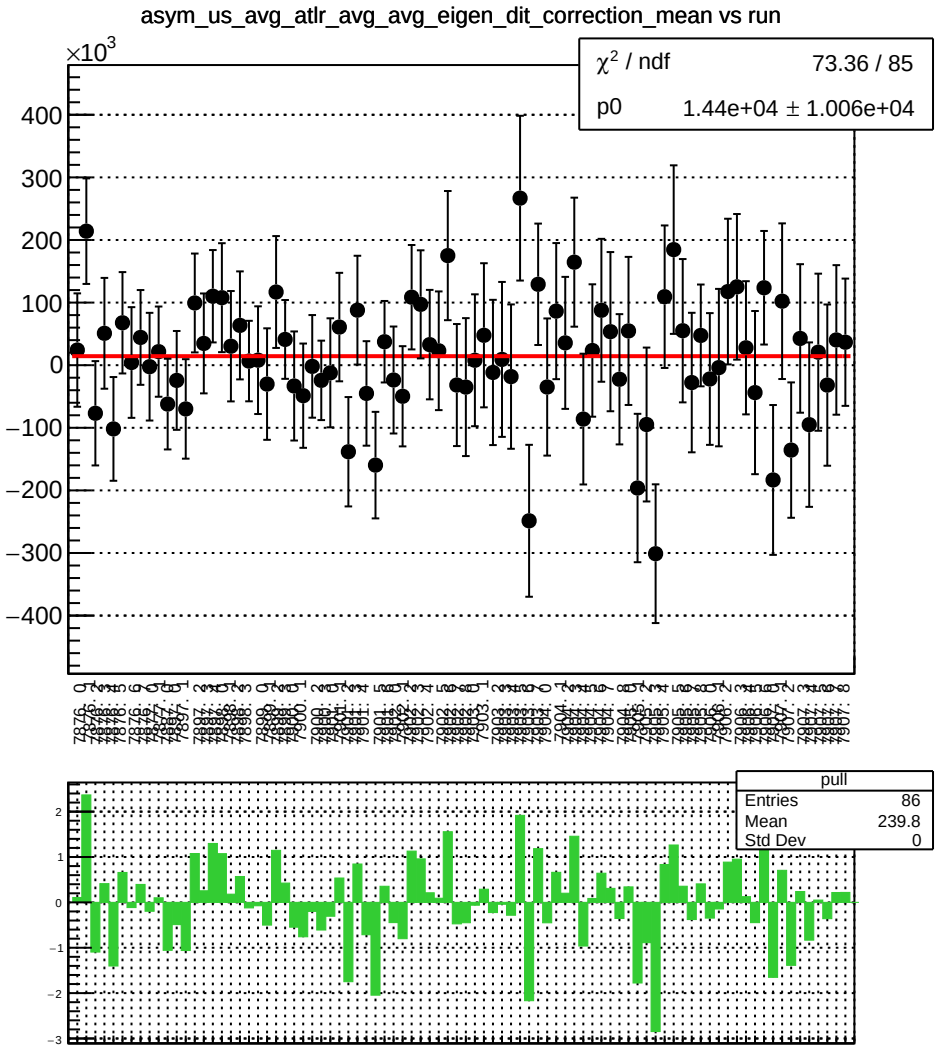

pull1D
Entries 86
Mean −0.005754
Std Dev 0.9236

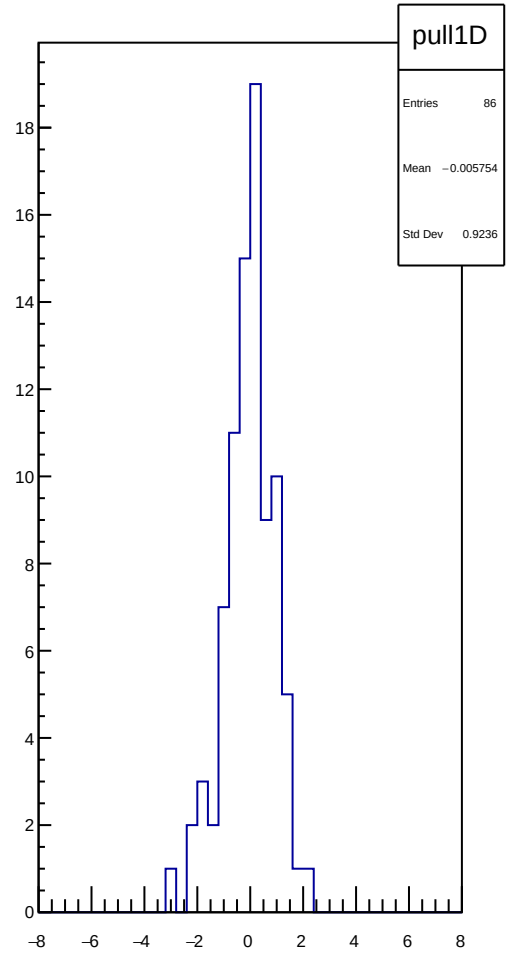

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 4.246e+04 / 85
p0 9125 ± 7.114
13000
12000
11000
10000
9000
8000
7000

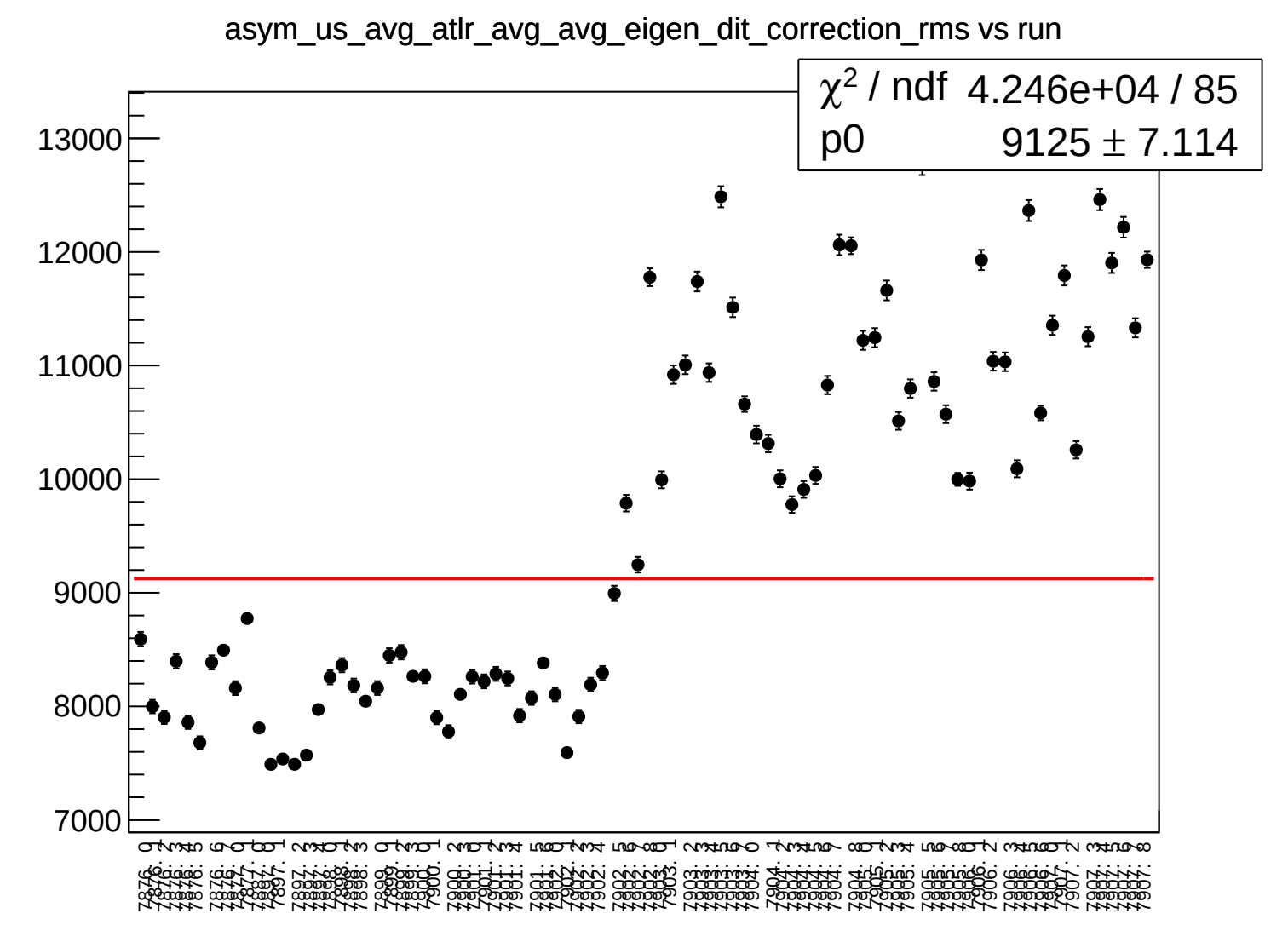

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 80.51 / 85
p0 2842 ± 2127
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 412
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

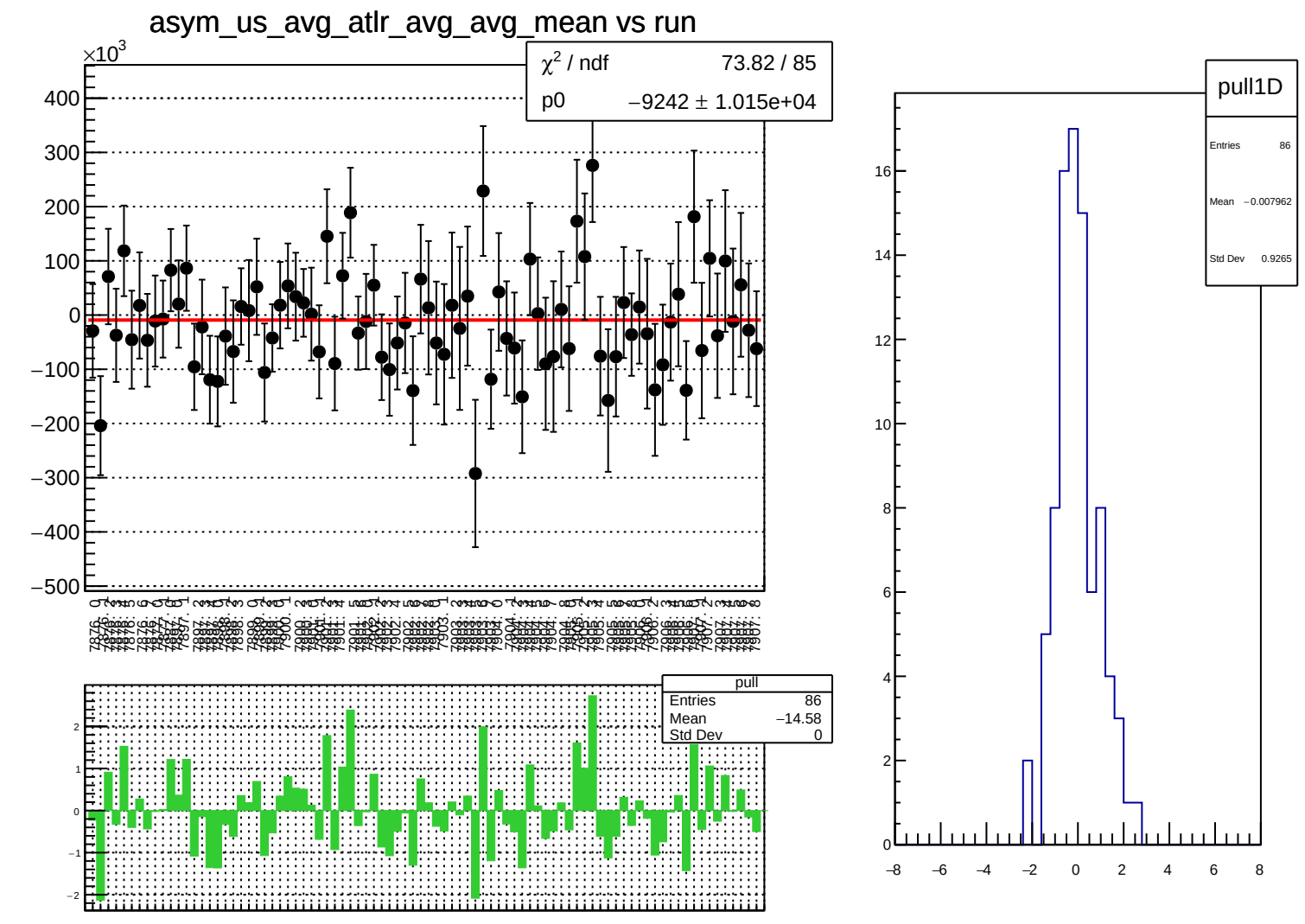

pull1D
Entries 86
Mean −0.008613
Std Dev 0.9675
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

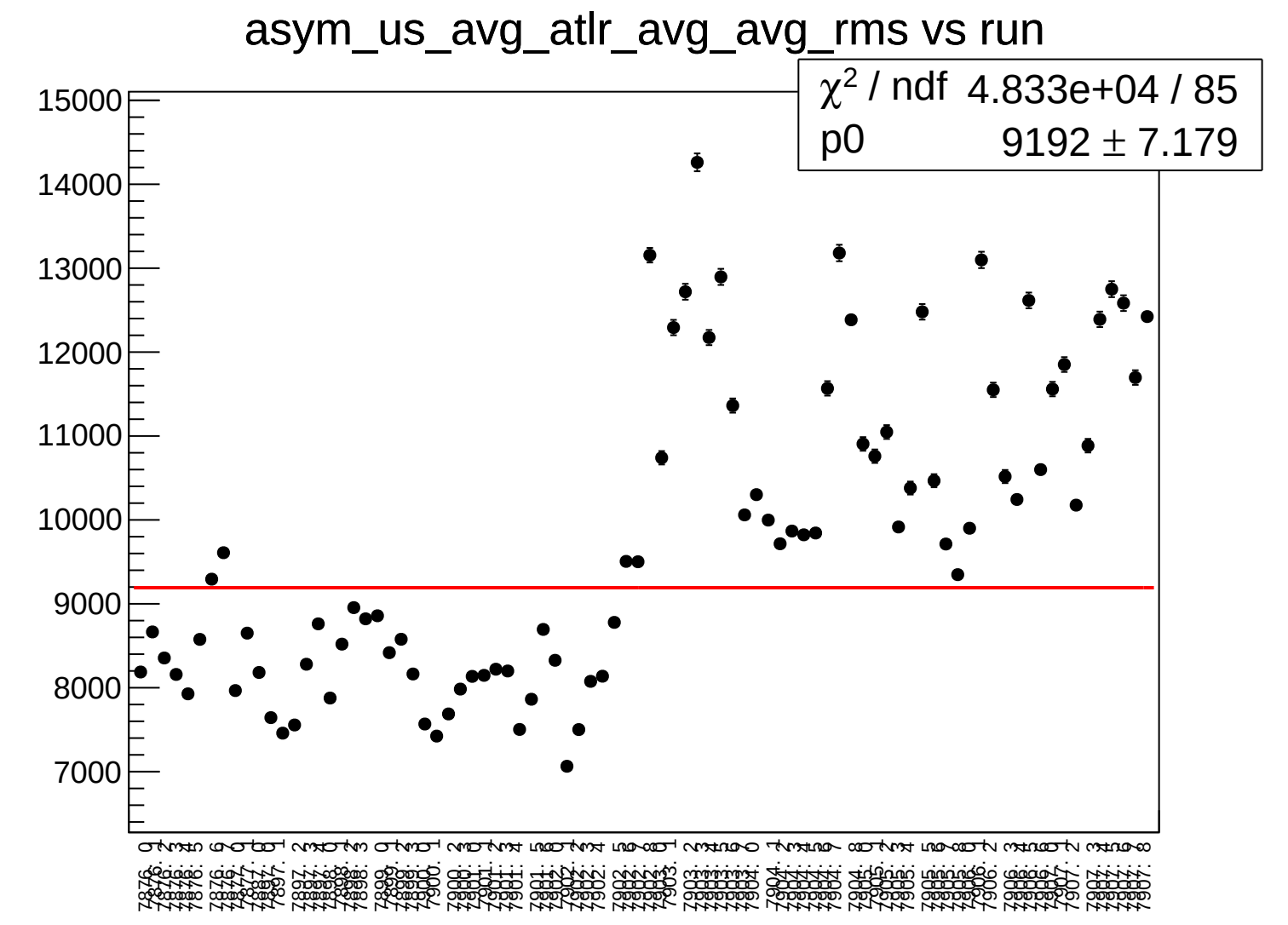

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 7410 / 85
p0 1949 ± 1.504
3200
3000
2800
2600
2400
2200
2000
1800

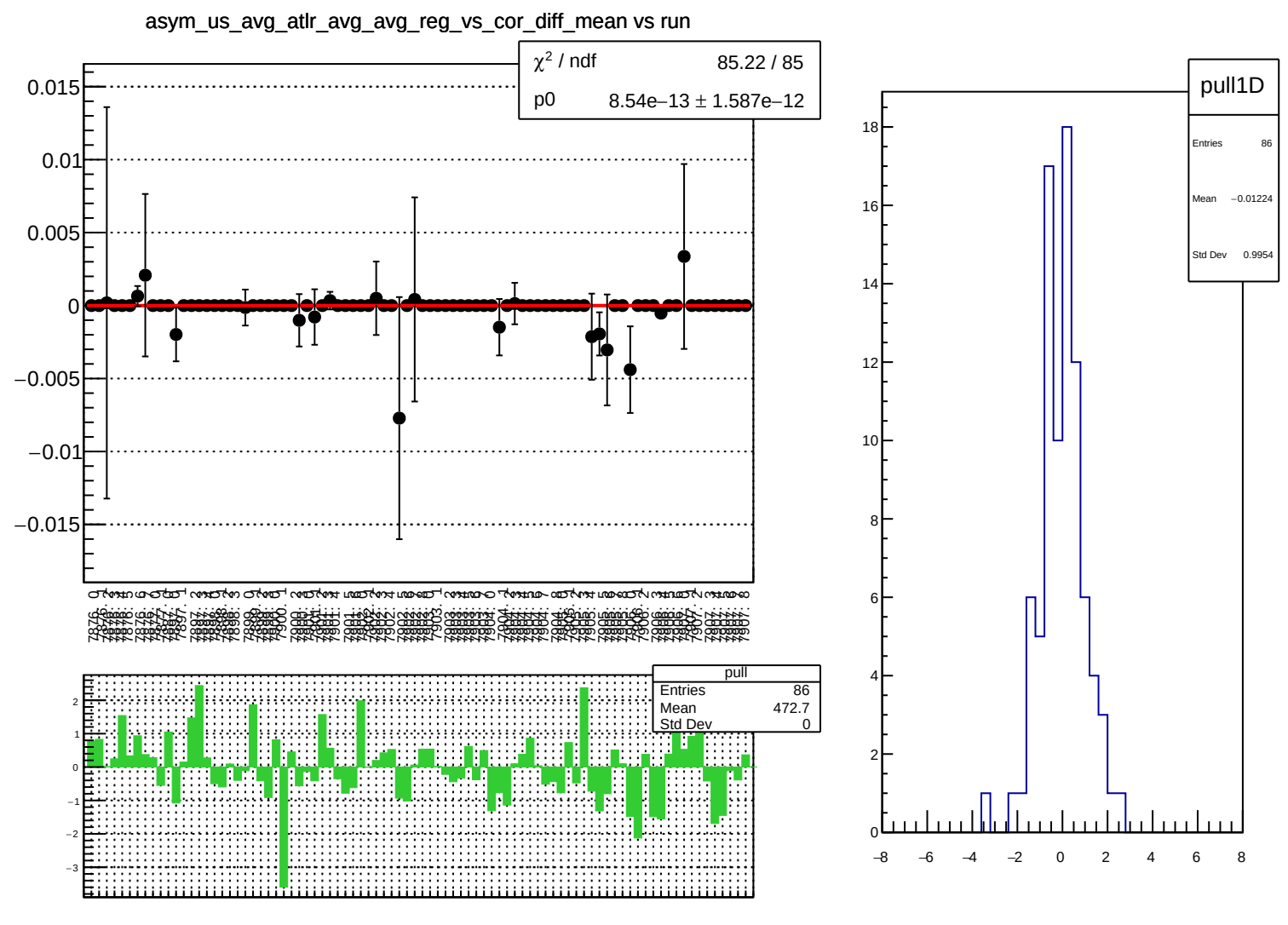

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.36 / 85
p0 1.44e+04 ± 1.006e+04
pull
Entries 86
Mean 239.8
Std Dev 0

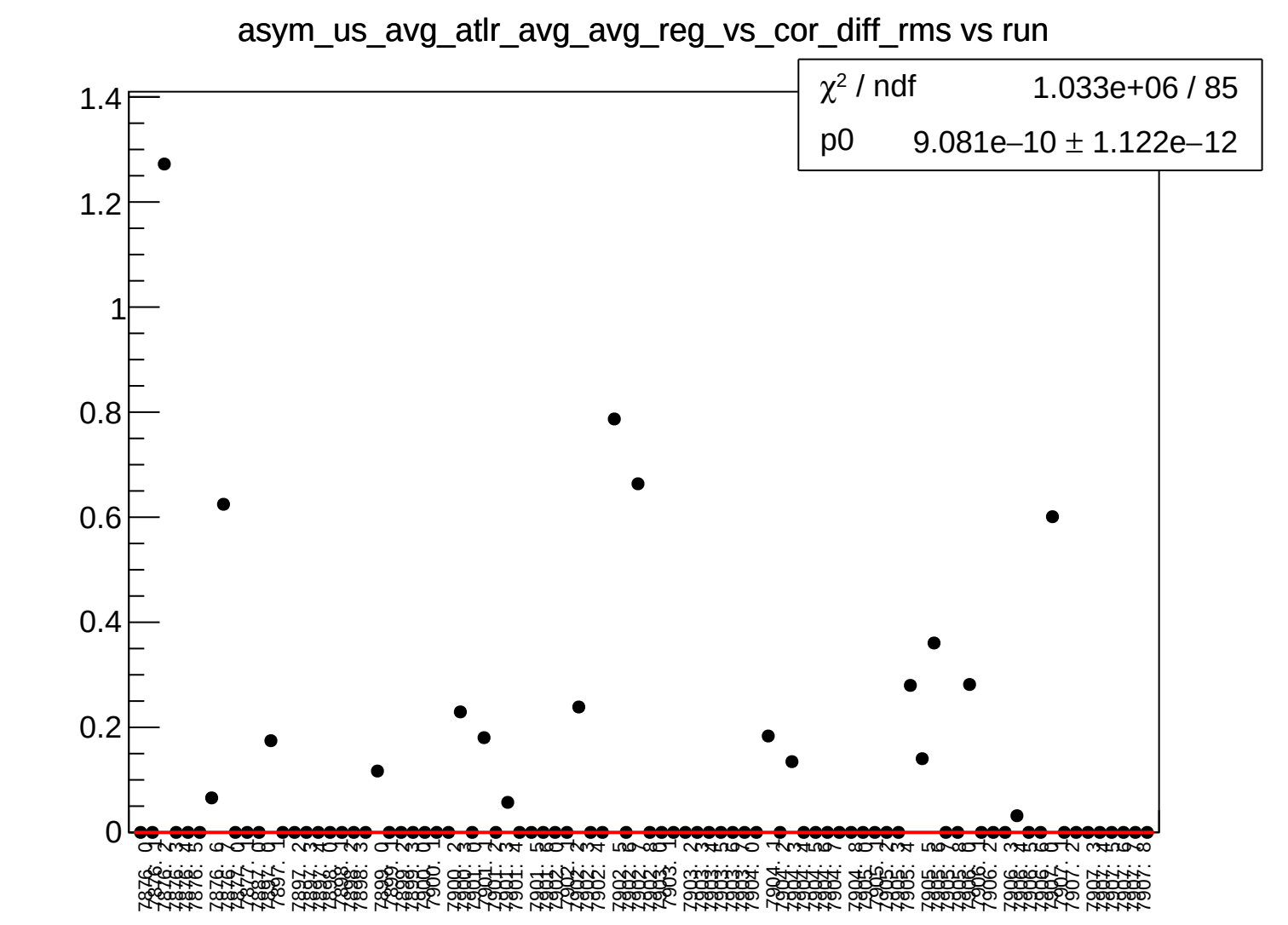

pull1D
Entries 86
Mean −0.005754
Std Dev 0.9236

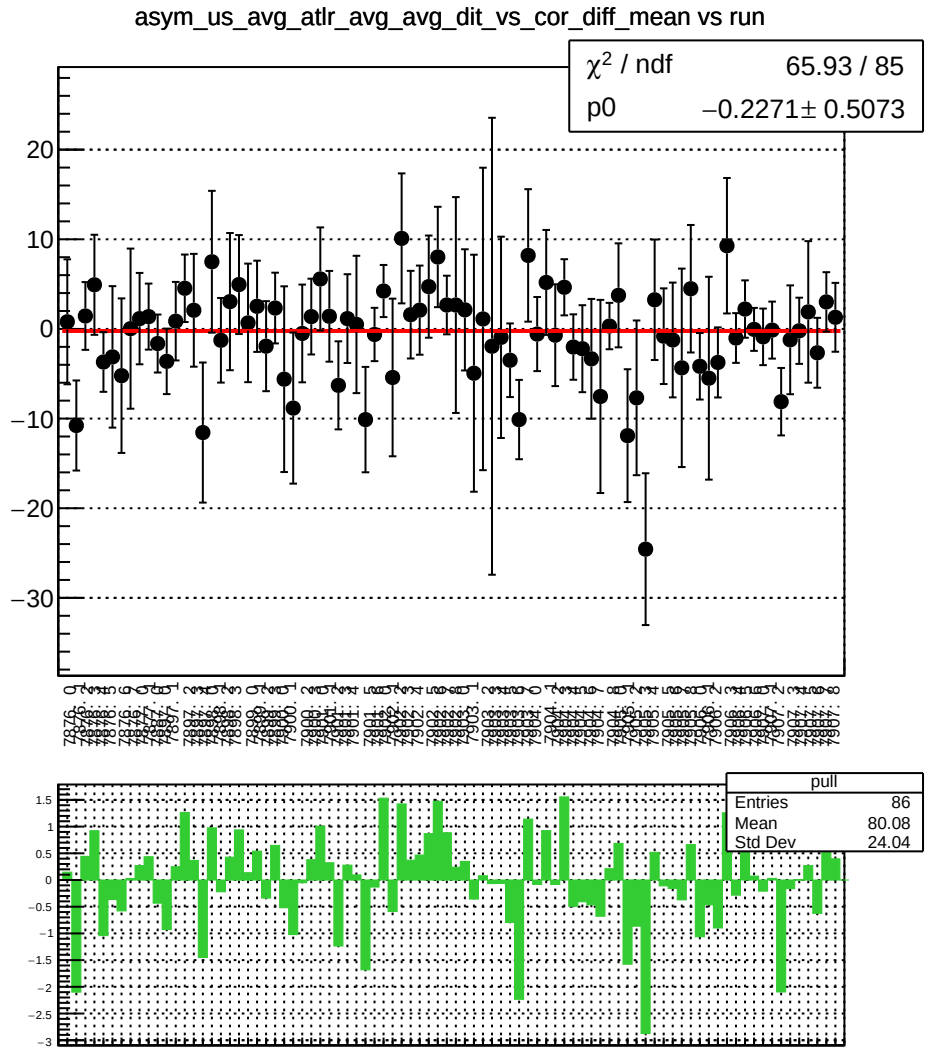

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.246e+04 / 85
p0 9125 ± 7.114
13000
12000
11000
10000
9000
8000
7000

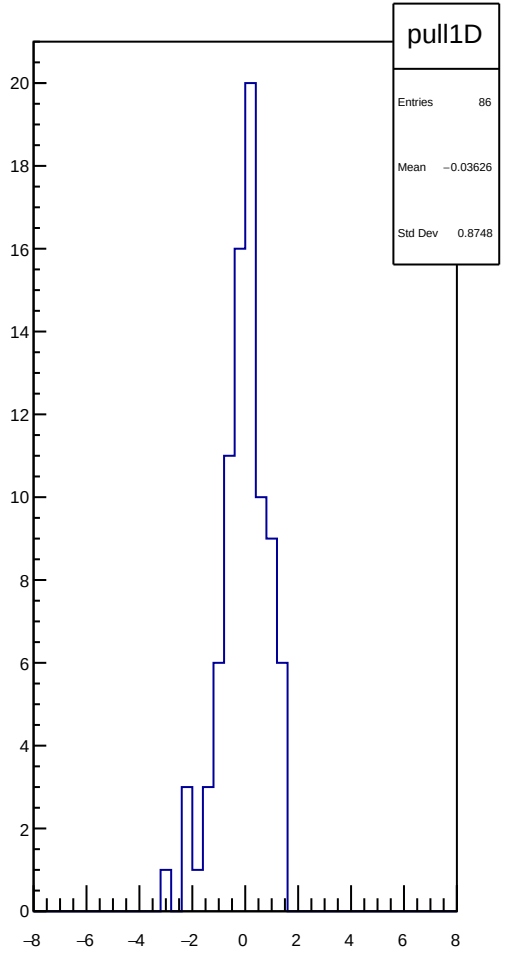

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 73.82 / 85
p0 −9242 ± 1.015e+04
pull
Entries 86
Mean −14.58
Std Dev 0
pull1D
Entries 86
Mean −0.007962
Std Dev 0.9265

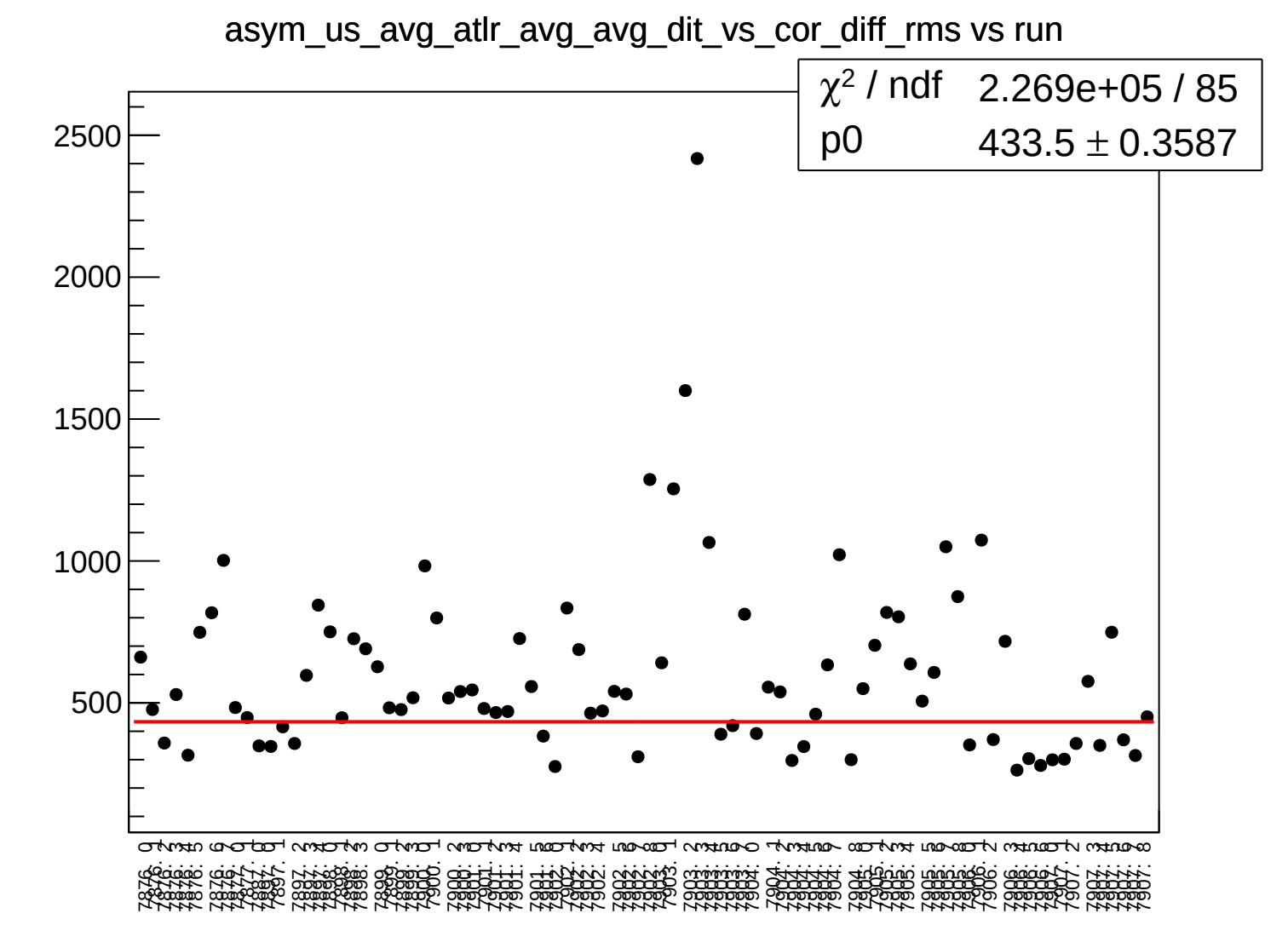

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 4.833e+04 / 85
p0 9192 ± 7.179
15000
14000
13000
12000
11000
10000
9000
8000
7000

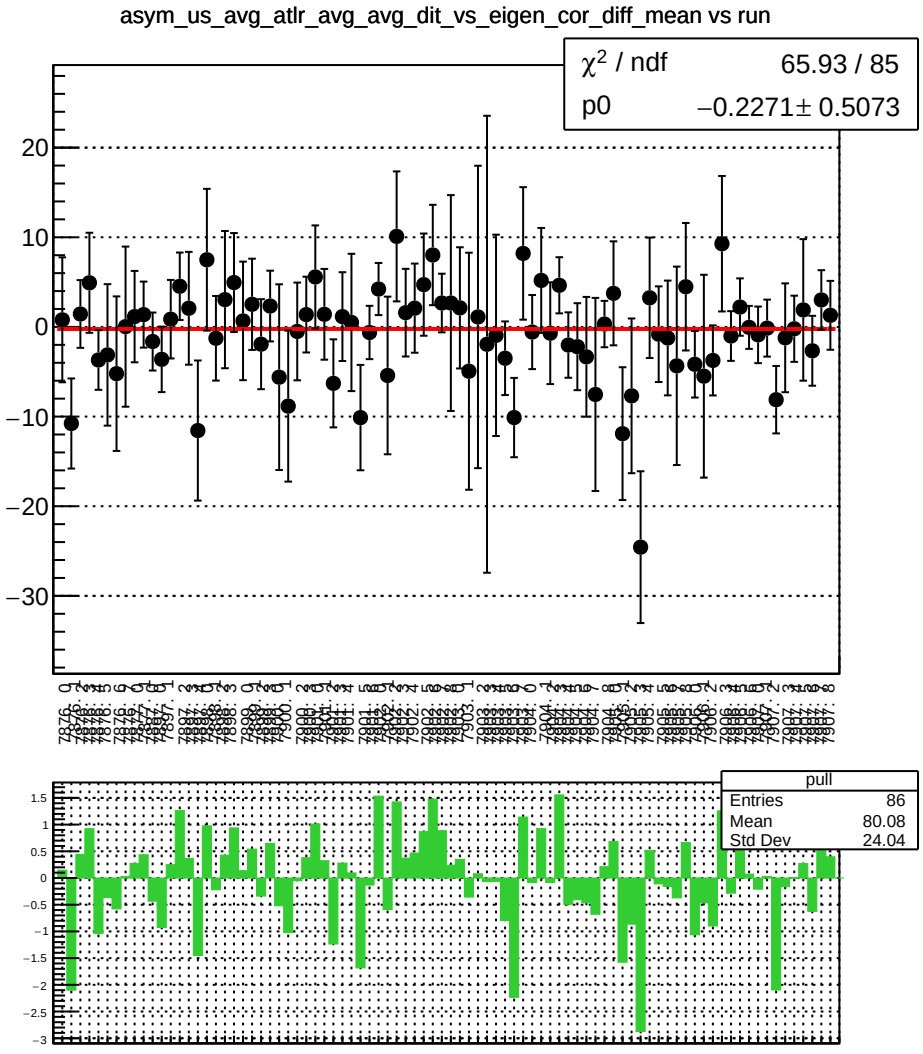

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.22 / 85
p0 8.54e−13 ± 1.587e−12
pull
Entries 86
Mean 472.7
Std Dev 0
pull1D
Entries 86
Mean −0.01224
Std Dev 0.9954

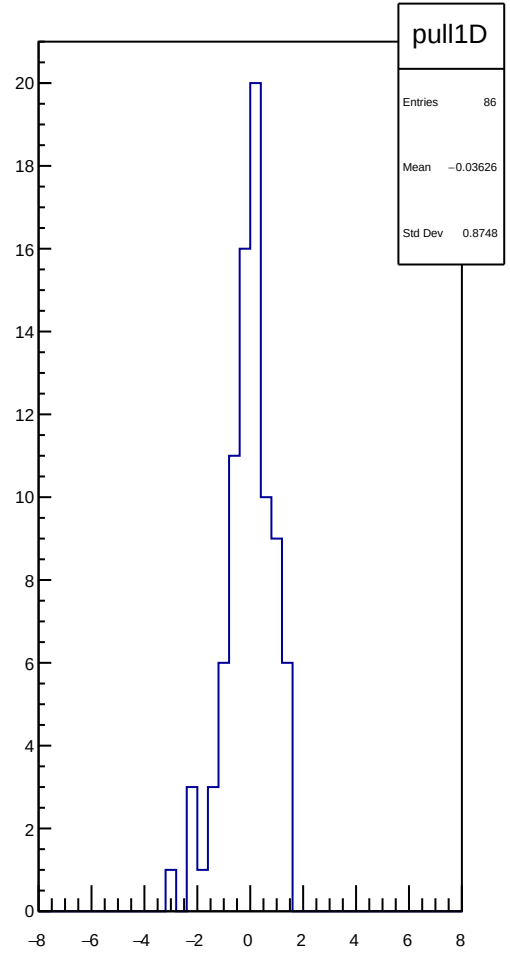

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 85
p0 9.081e−10 ± 1.122e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

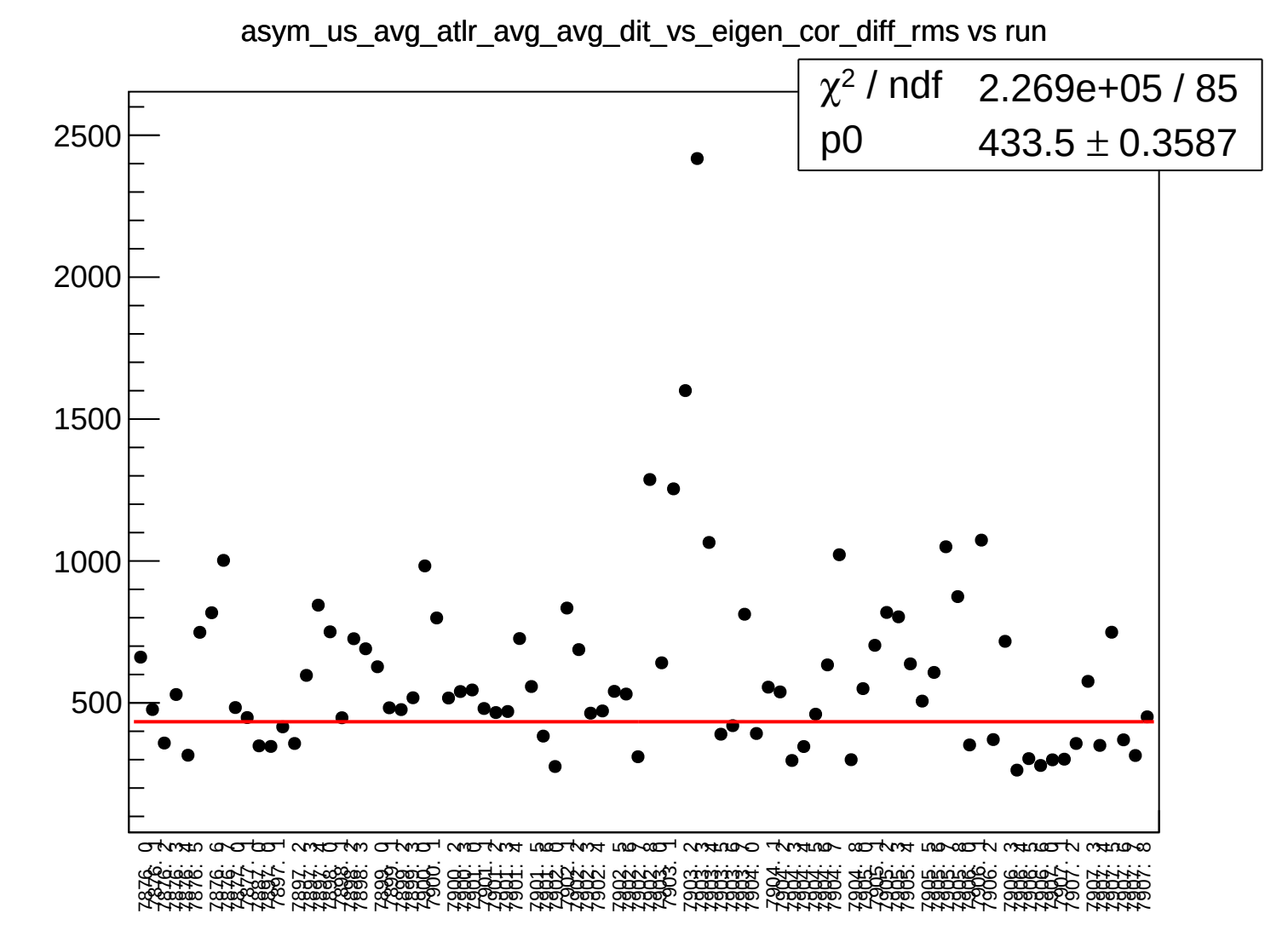

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.93 / 85
p0 −0.2271± 0.5073
pull
Entries 86
Mean 80.08
Std Dev 24.04

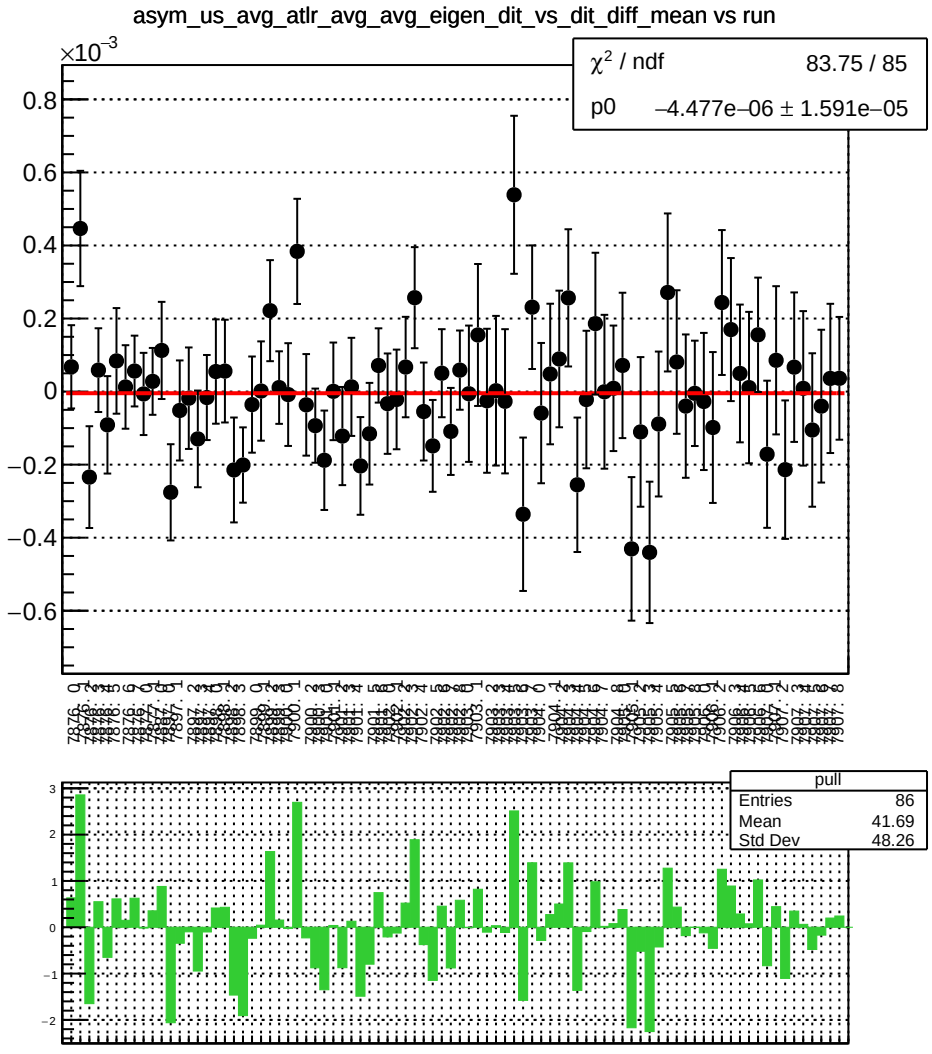

pull1D
Entries 86
Mean −0.03626
Std Dev 0.8748

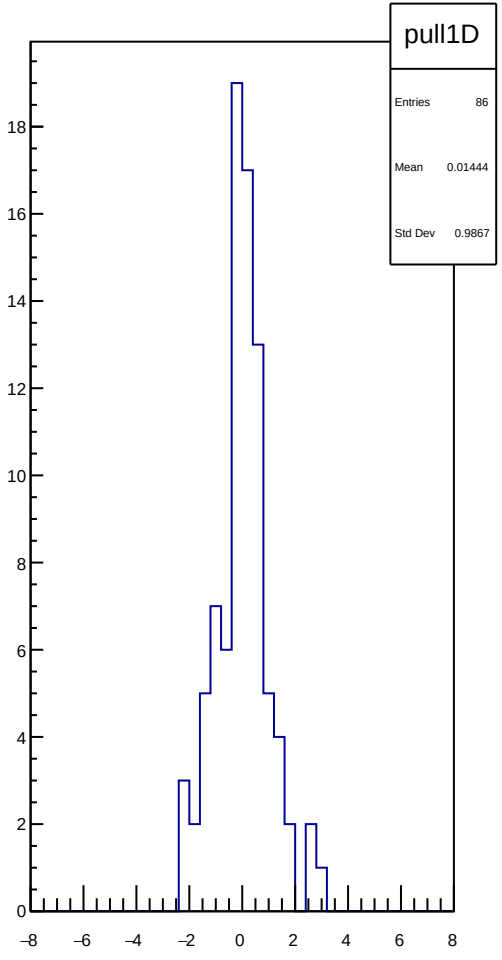

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 85
p0 433.5 ± 0.3587
2500
2000
1500
1000
500

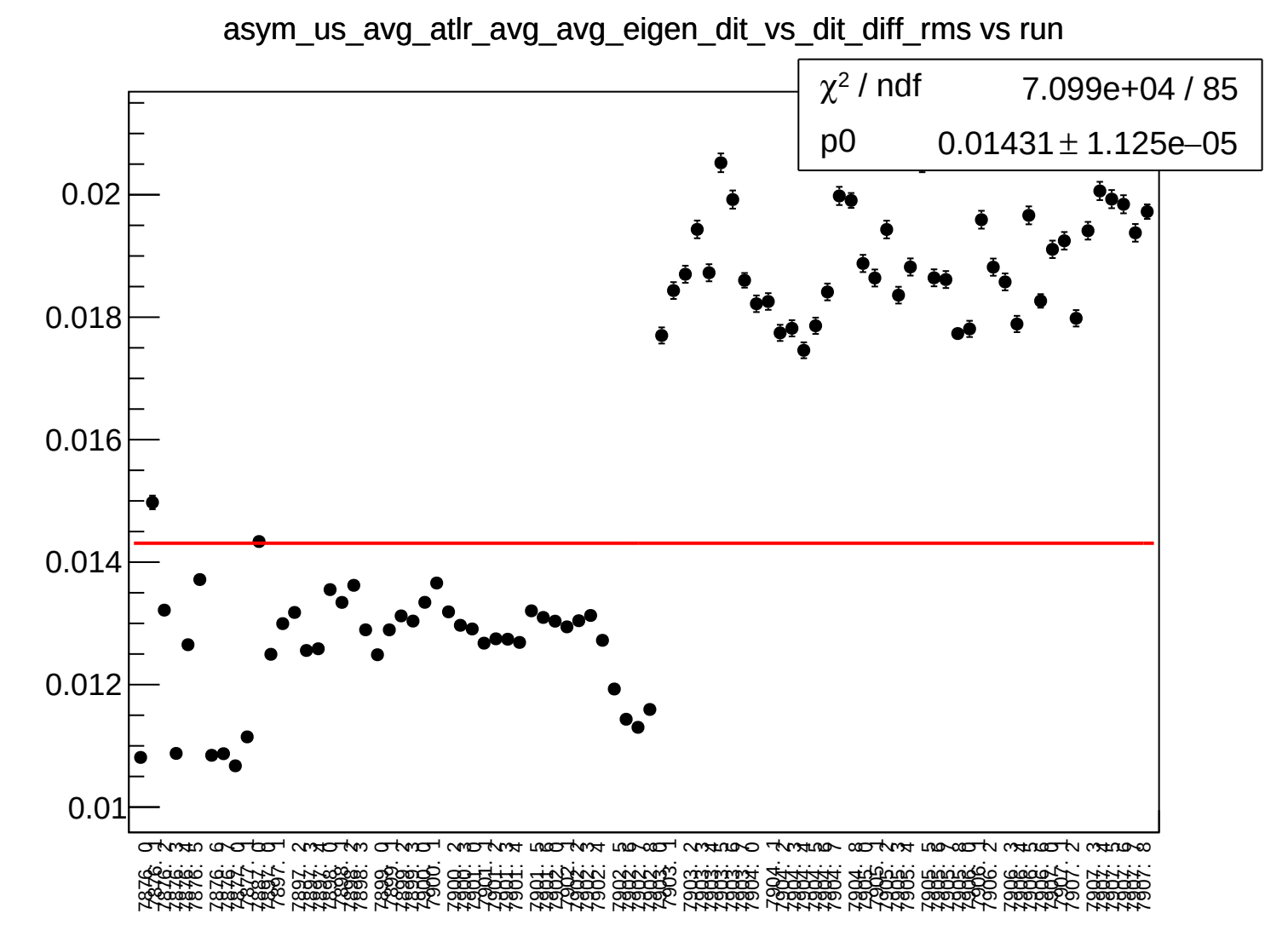

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.93 / 85
p0 −0.2271± 0.5073
pull
Entries 86
Mean 80.08
Std Dev 24.04

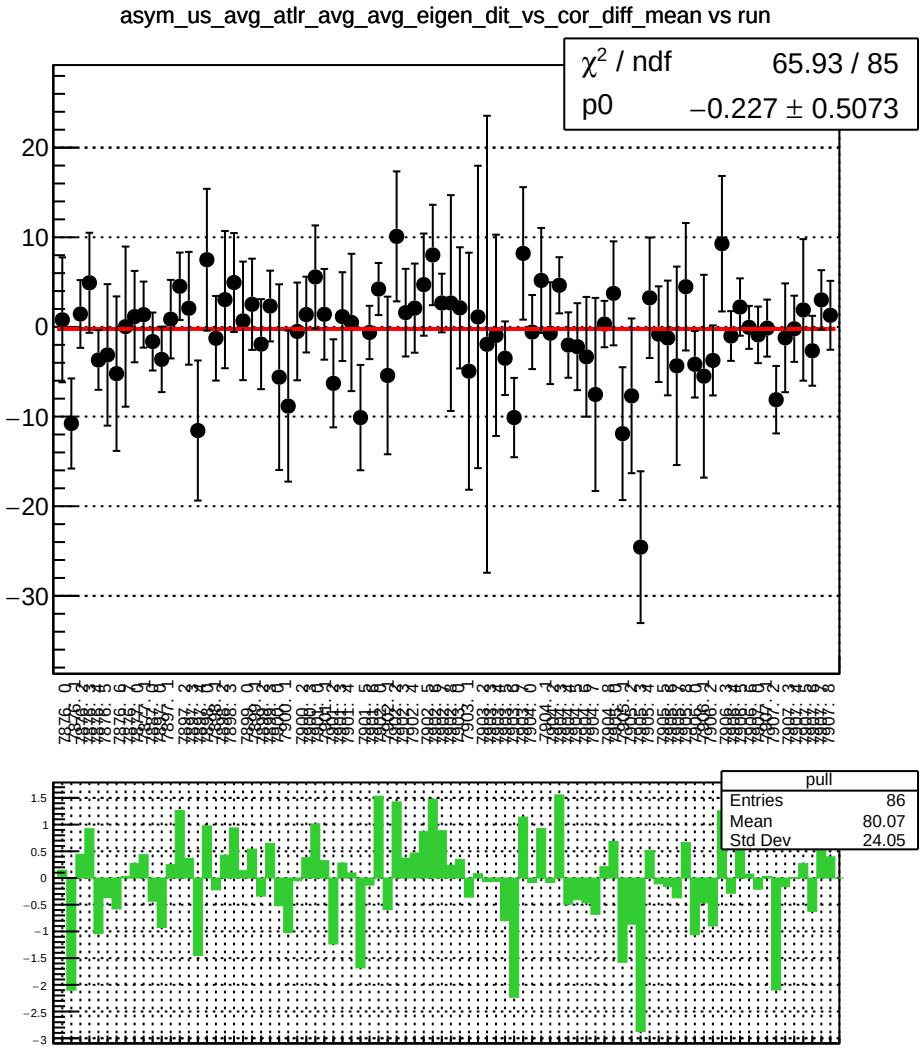

pull1D
Entries 86
Mean −0.03626
Std Dev 0.8748

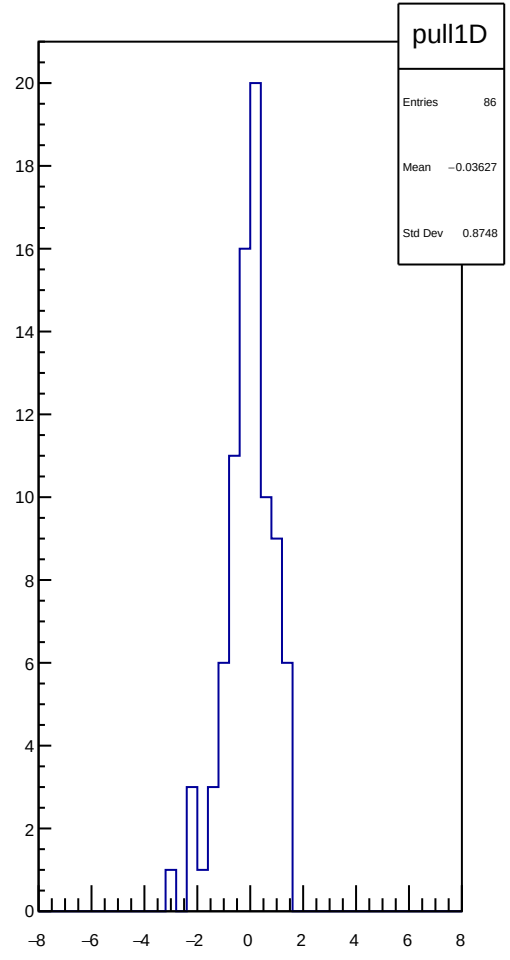

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 85
p0 433.5 ± 0.3587
2500
2000
1500
1000
500

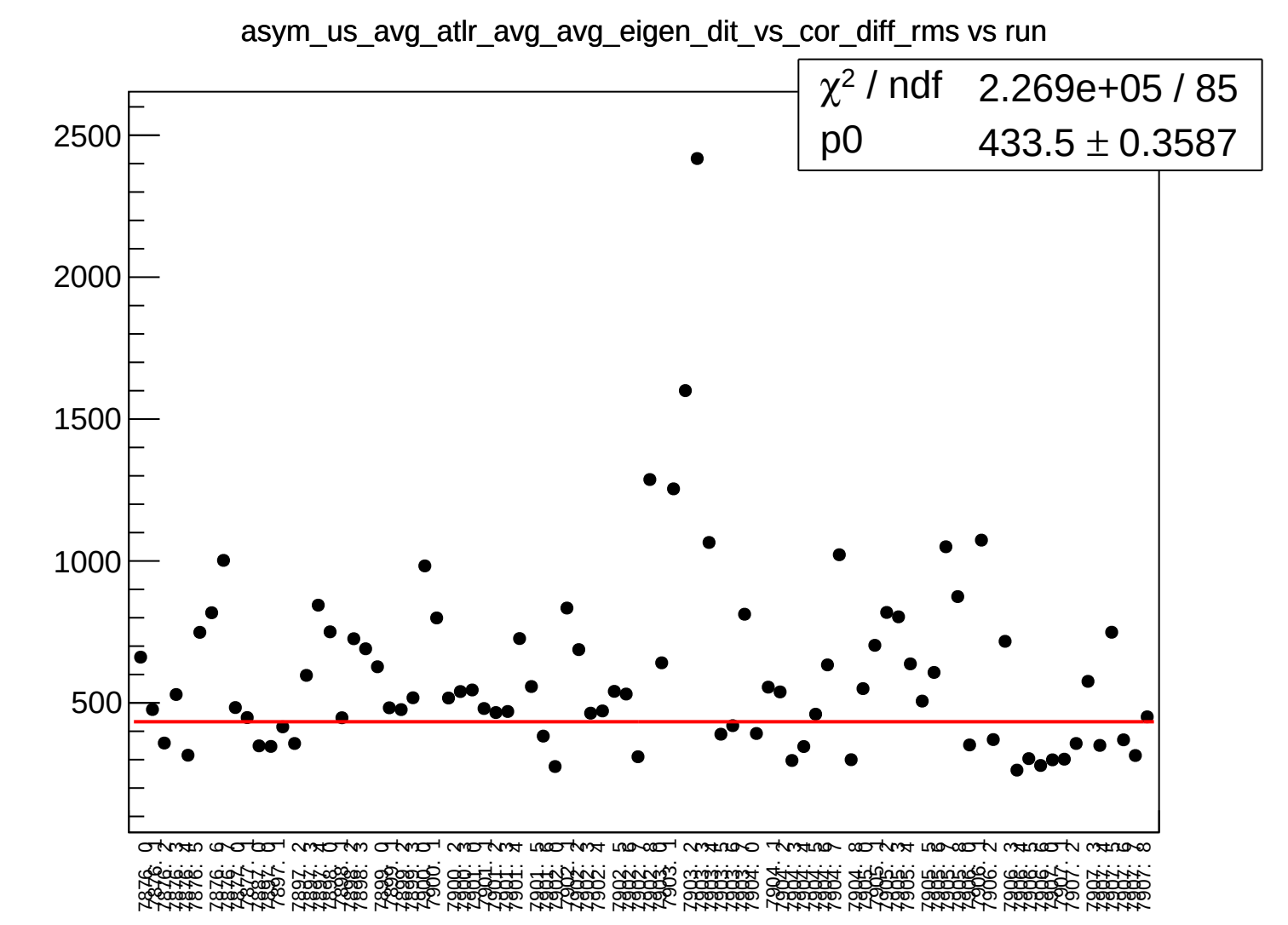

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.75 / 85
p0 −4.477e−06 ± 1.591e−05
pull
Entries 86
Mean 41.69
Std Dev 48.26

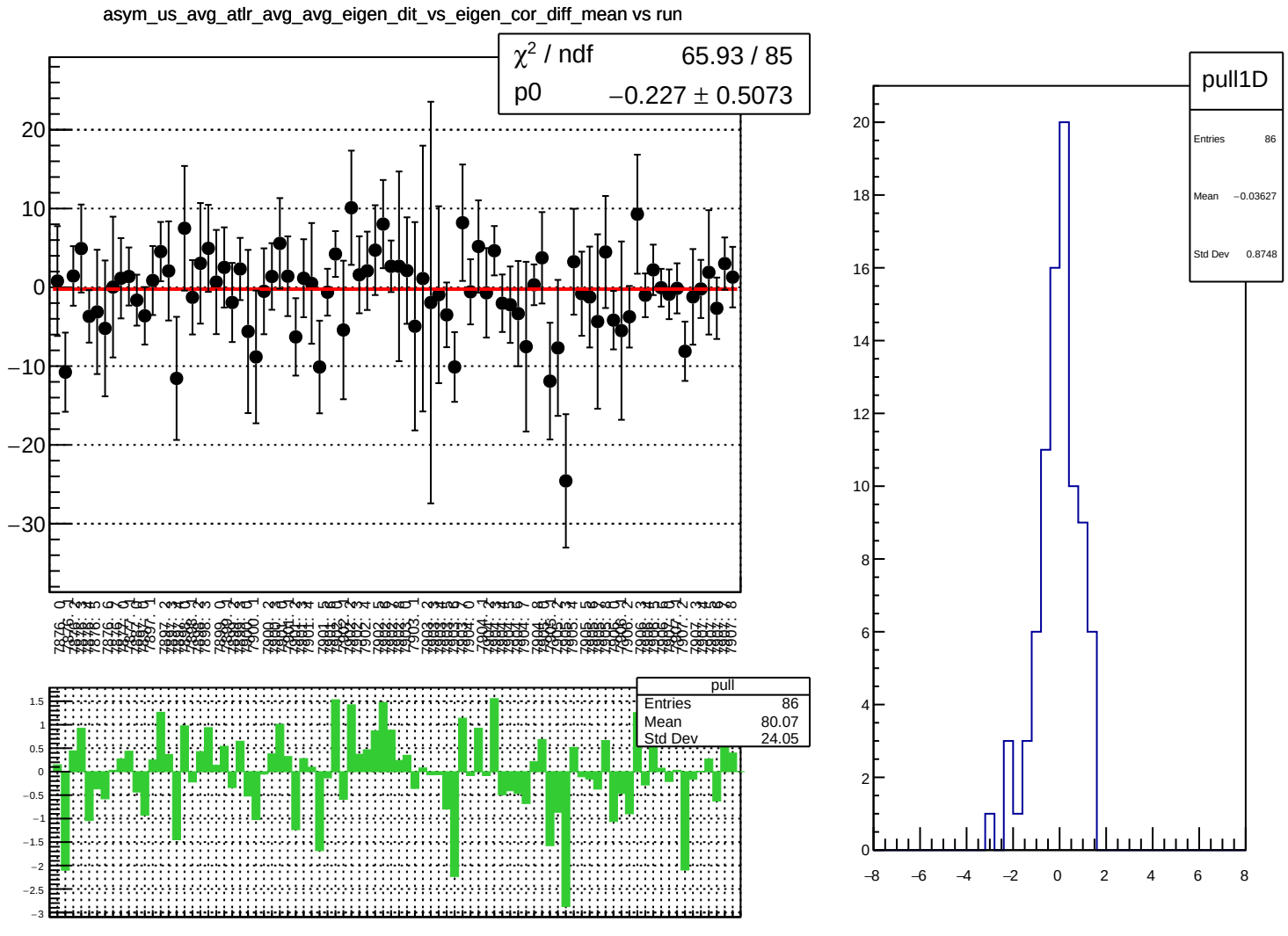

pull1D
Entries 86
Mean 0.01444
Std Dev 0.9867

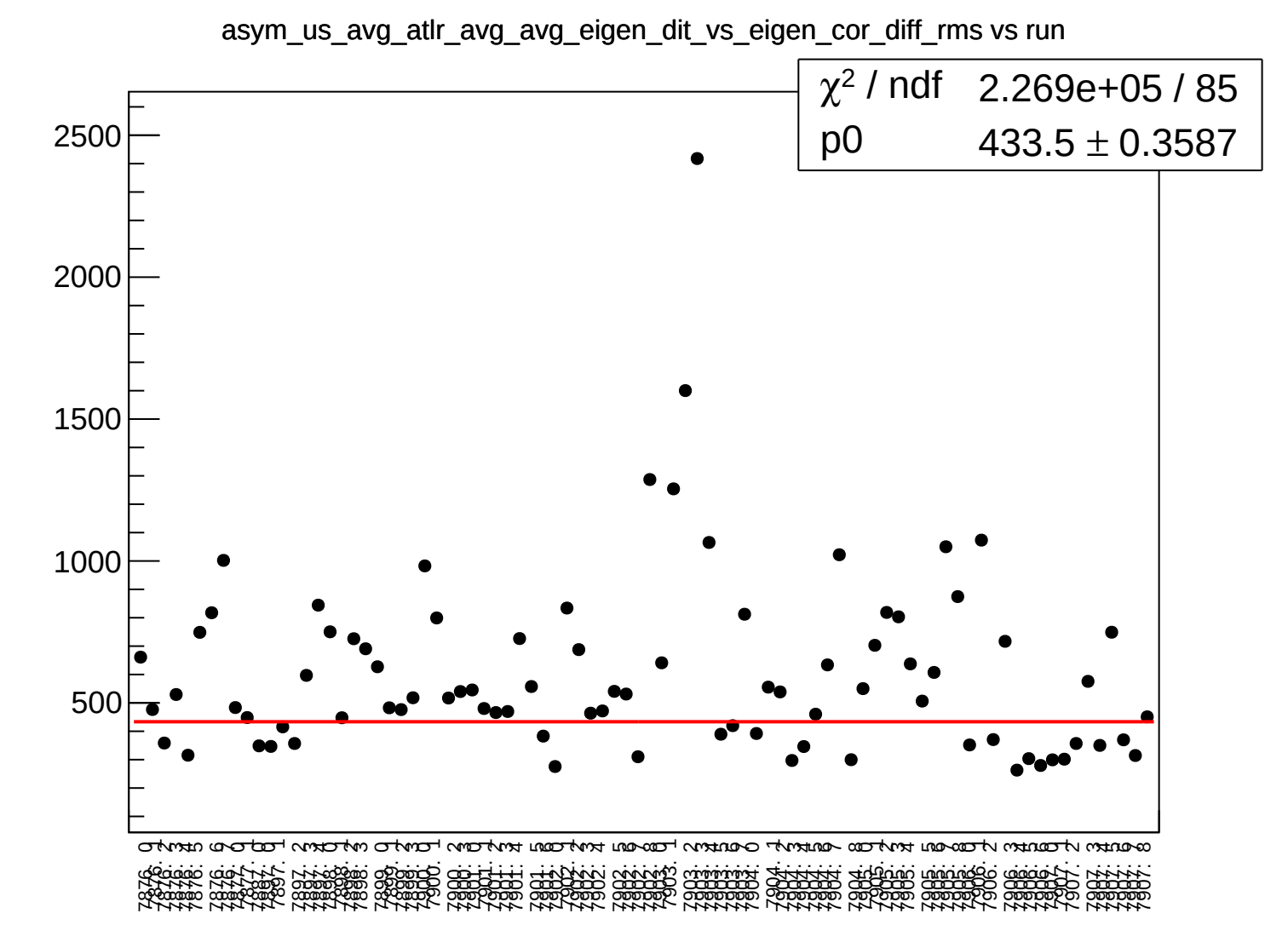

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.099e+04 / 85
p0 0.01431 ± 1.125e−05
0.02
0.018
0.016
0.014
0.012
0.01

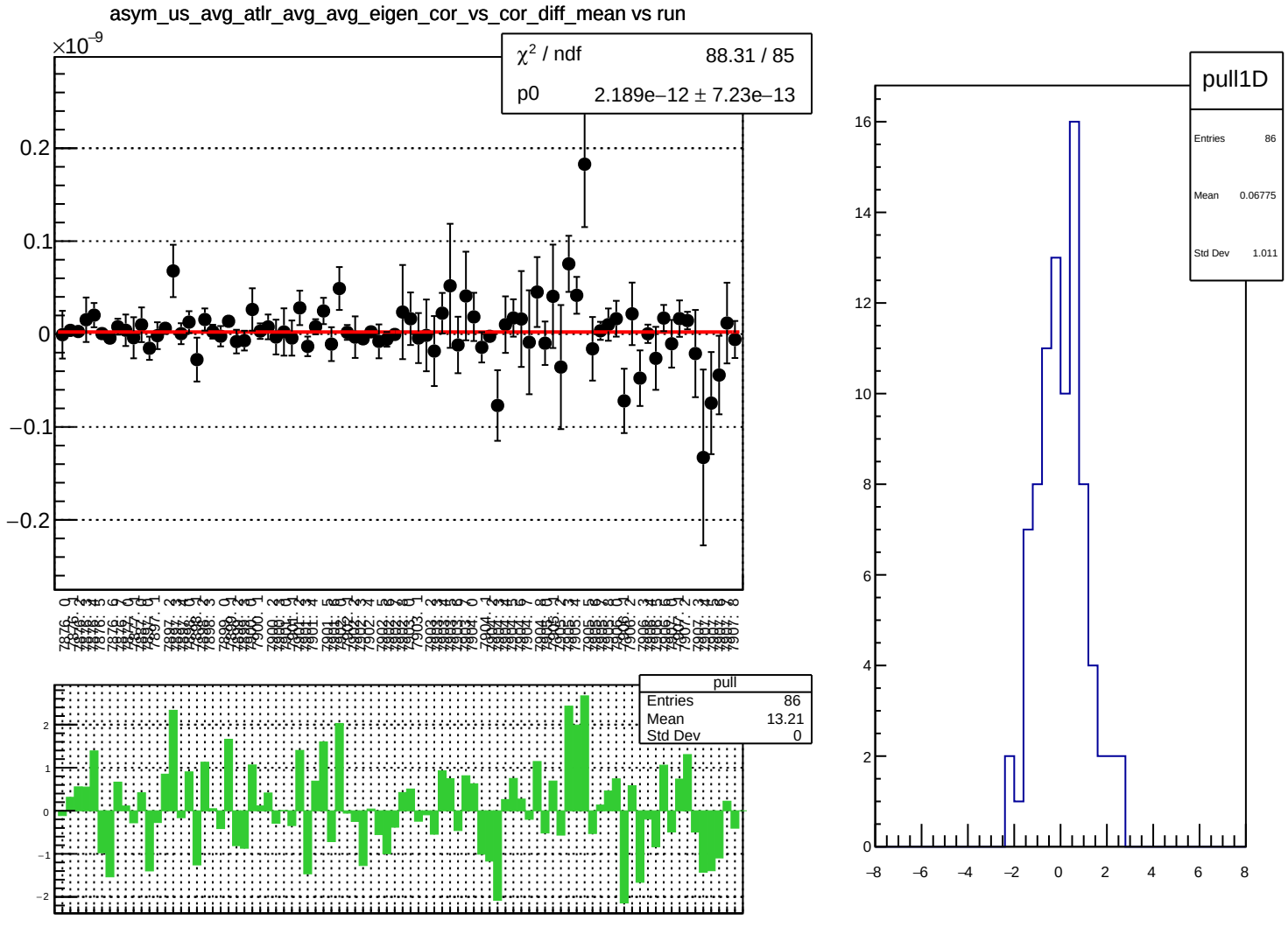

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.93 / 85
p0 −0.227 ± 0.5073
pull
Entries 86
Mean 80.07
Std Dev 24.05

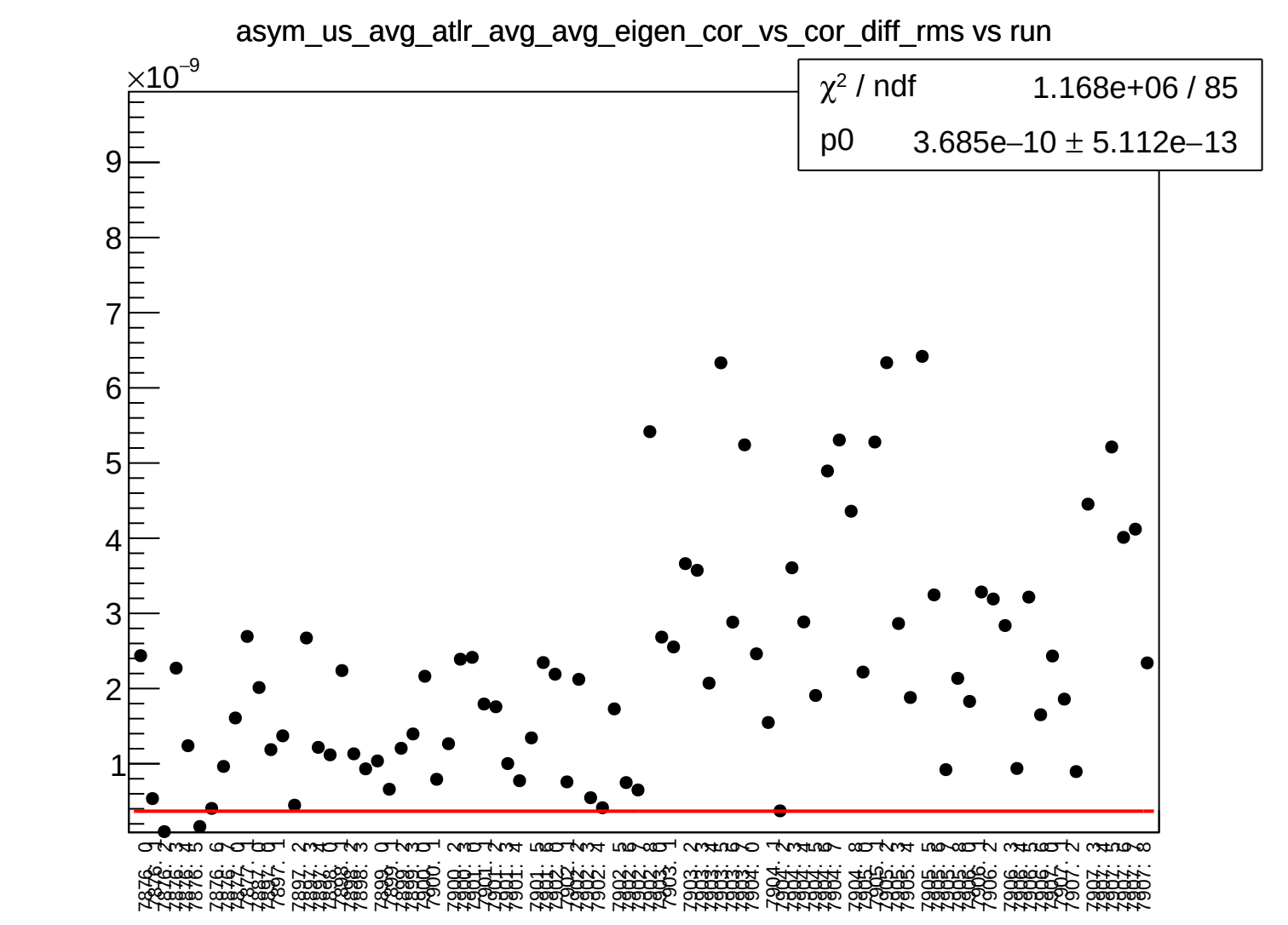

pull1D
Entries 86
Mean −0.03627
Std Dev 0.8748

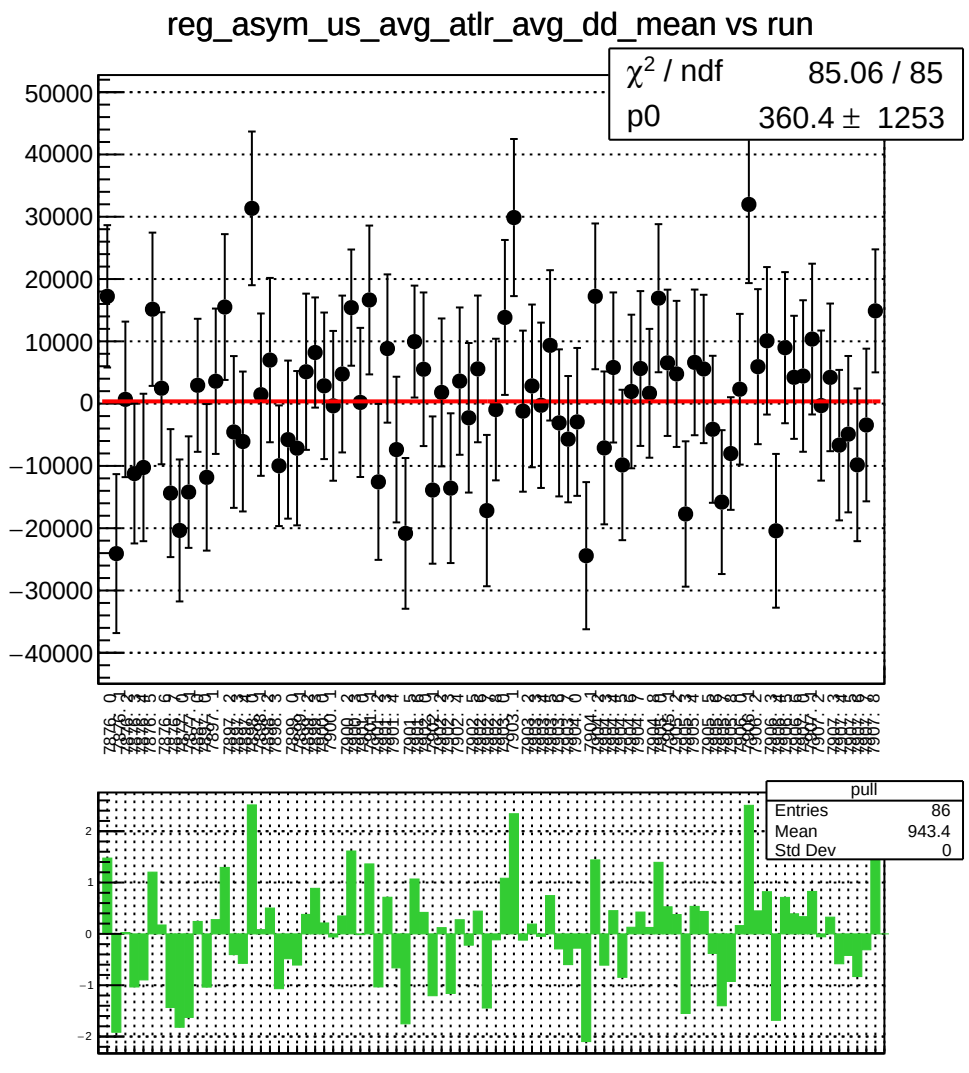

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 85
p0 433.5 ± 0.3587
2500
2000
1500
1000
500

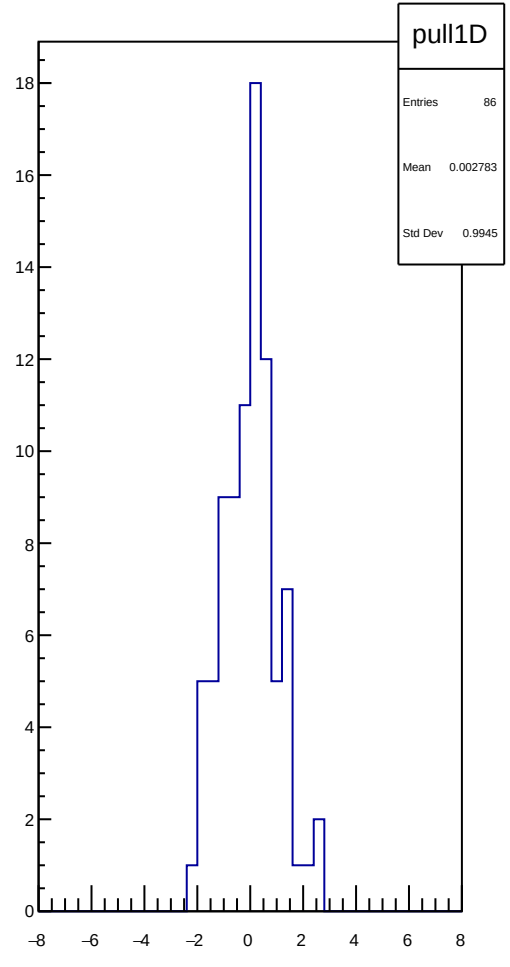

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.93 / 85
p0 −0.227 ± 0.5073
pull
Entries 86
Mean 80.07
Std Dev 24.05
pull1D
Entries 86
Mean −0.03627
Std Dev 0.8748

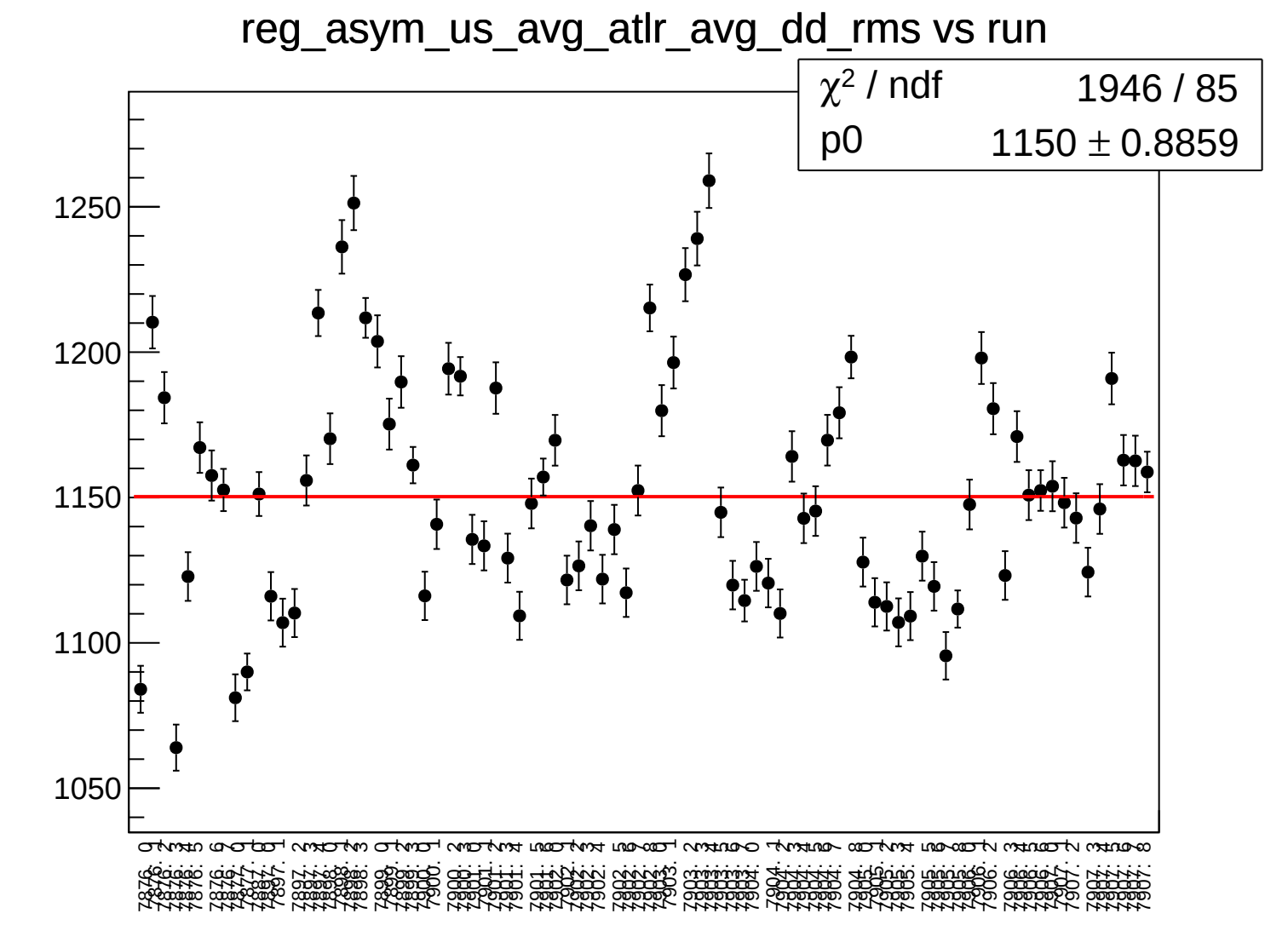

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 85
p0 433.5 ± 0.3587
2500
2000
1500
1000
500

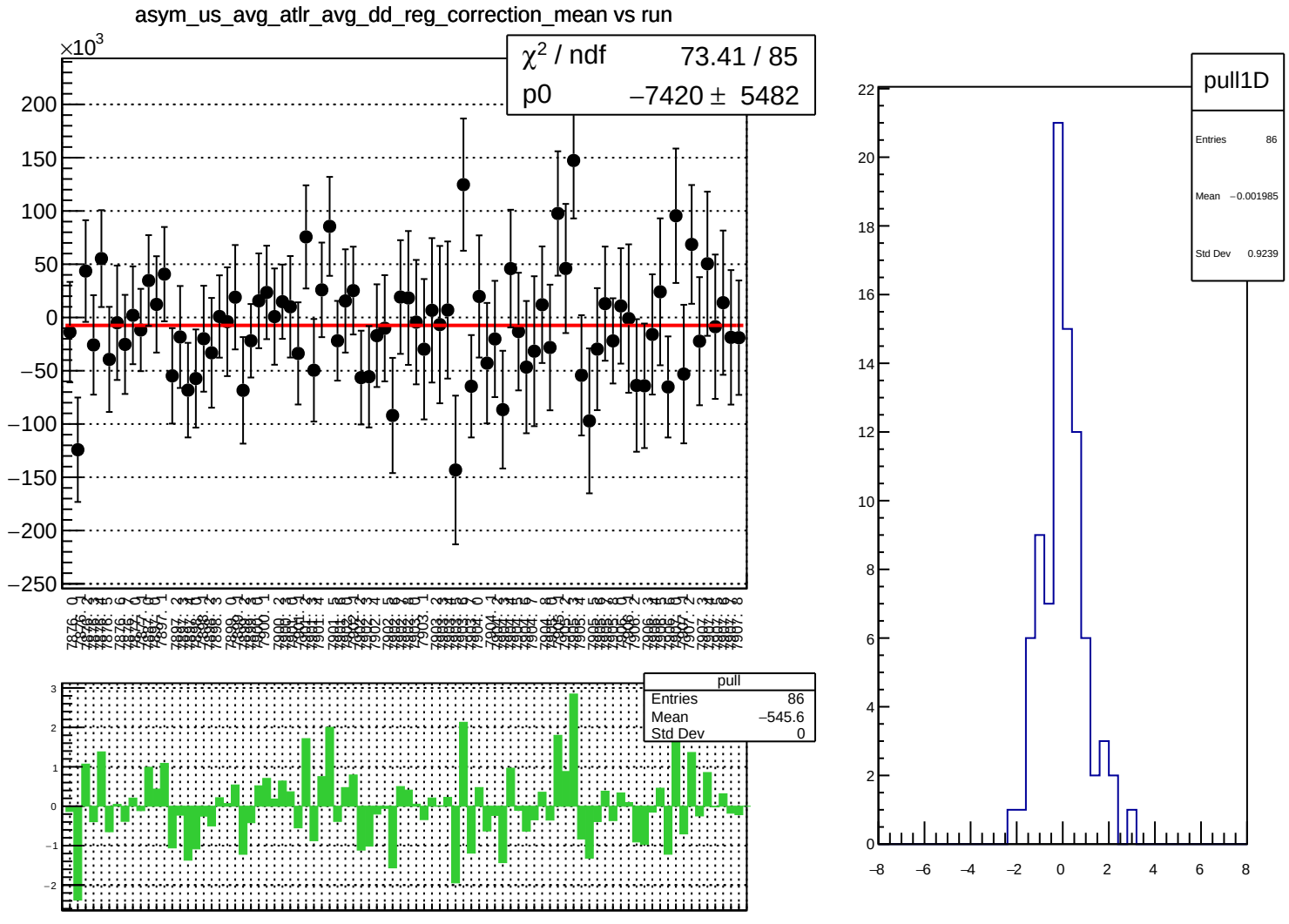

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 88.31 / 85
p0 2.189e−12 ± 7.23e−13
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean 13.21
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.06775
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

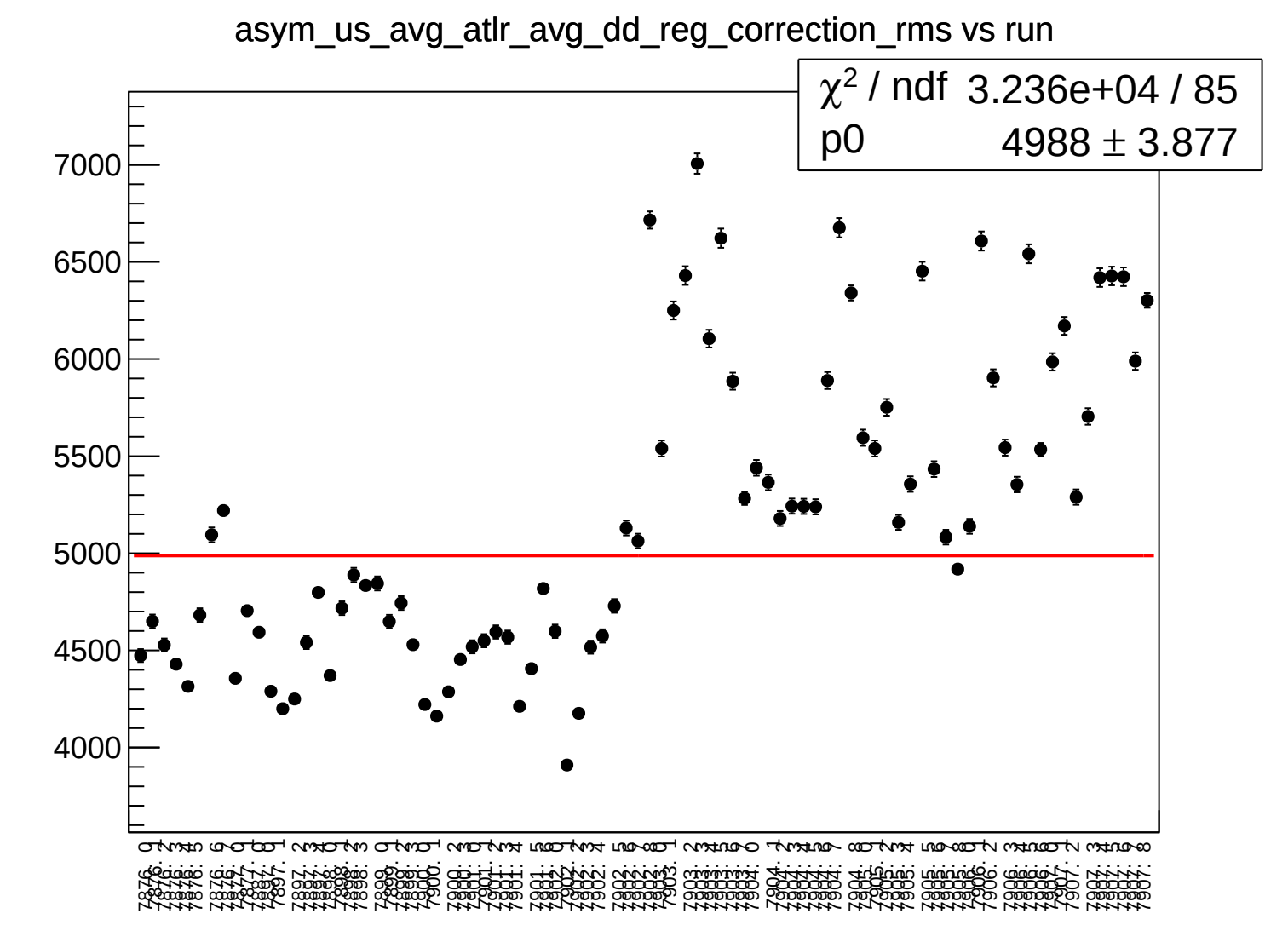

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.168e+06 / 85
p0 3.685e−10 ± 5.112e−13
9
8
7
6
5
4
3
2
1

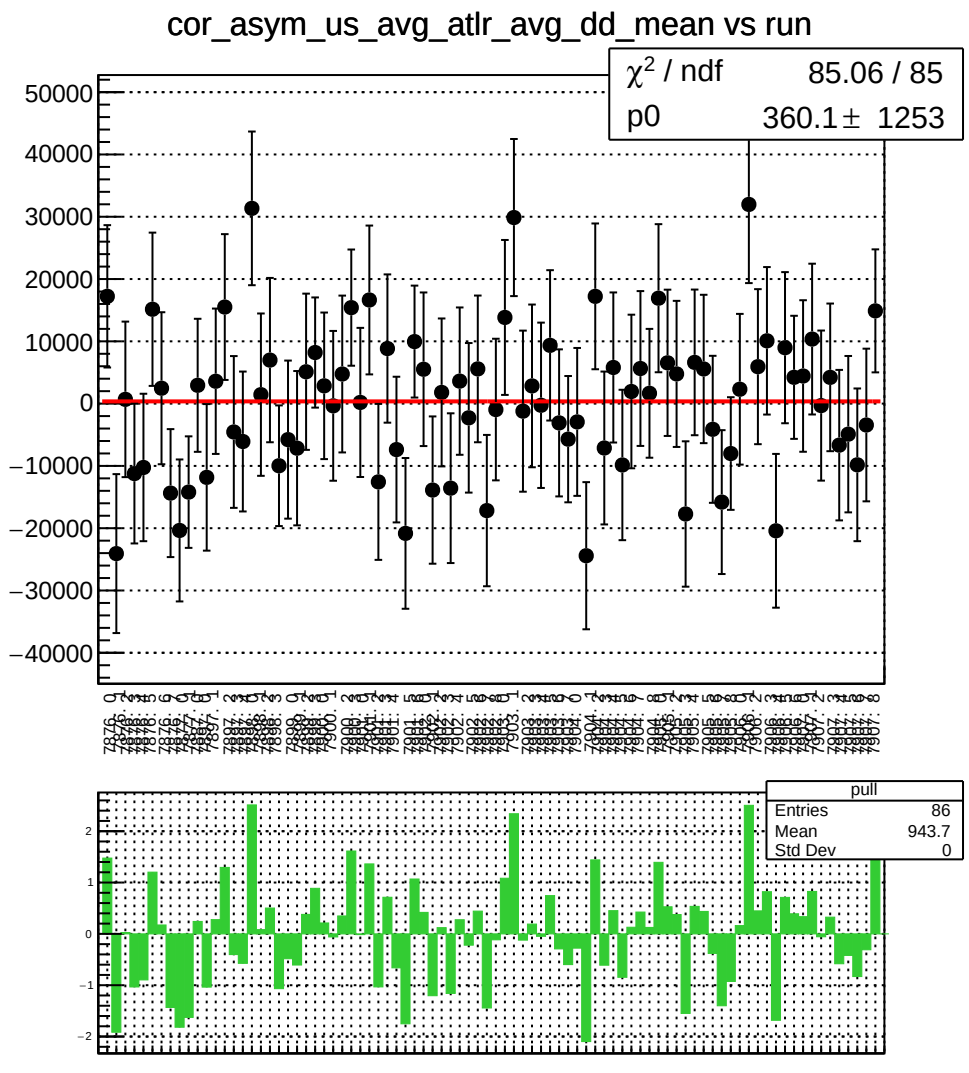

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 85.06 / 85
p0 360.4 ± 1253
pull
Entries 86
Mean 943.4
Std Dev 0

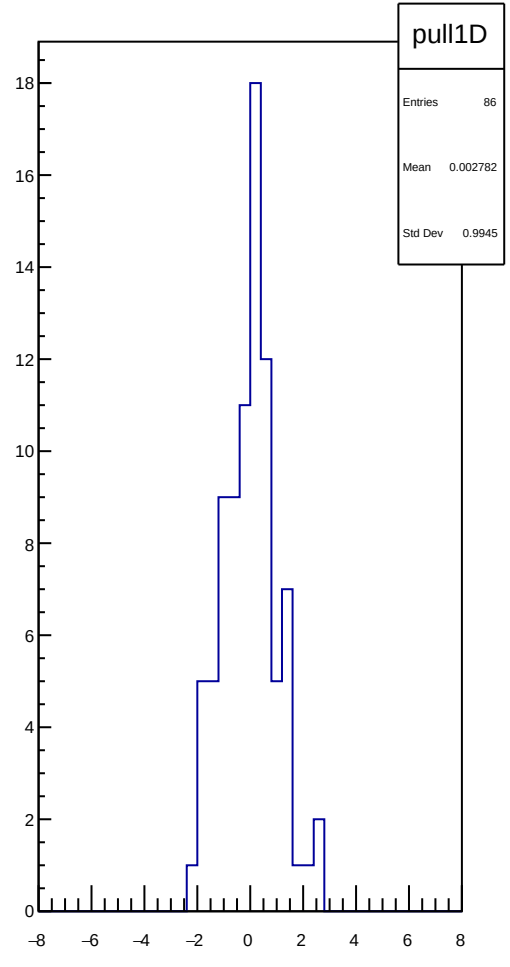

pull1D
Entries 86
Mean 0.002783
Std Dev 0.9945

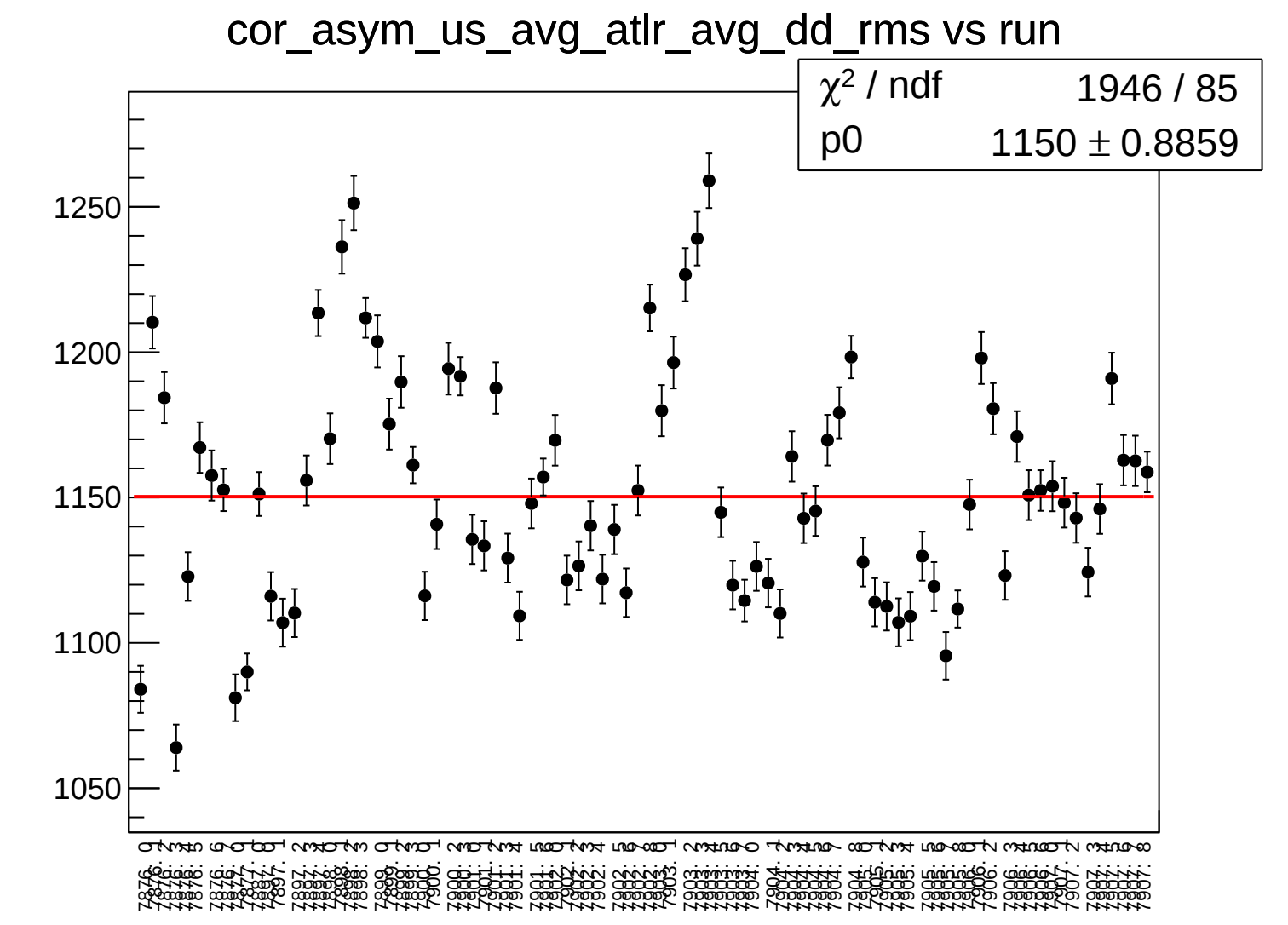

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 1946 / 85
p0 1150 ± 0.8859
1250
1200
1150
1100
1050

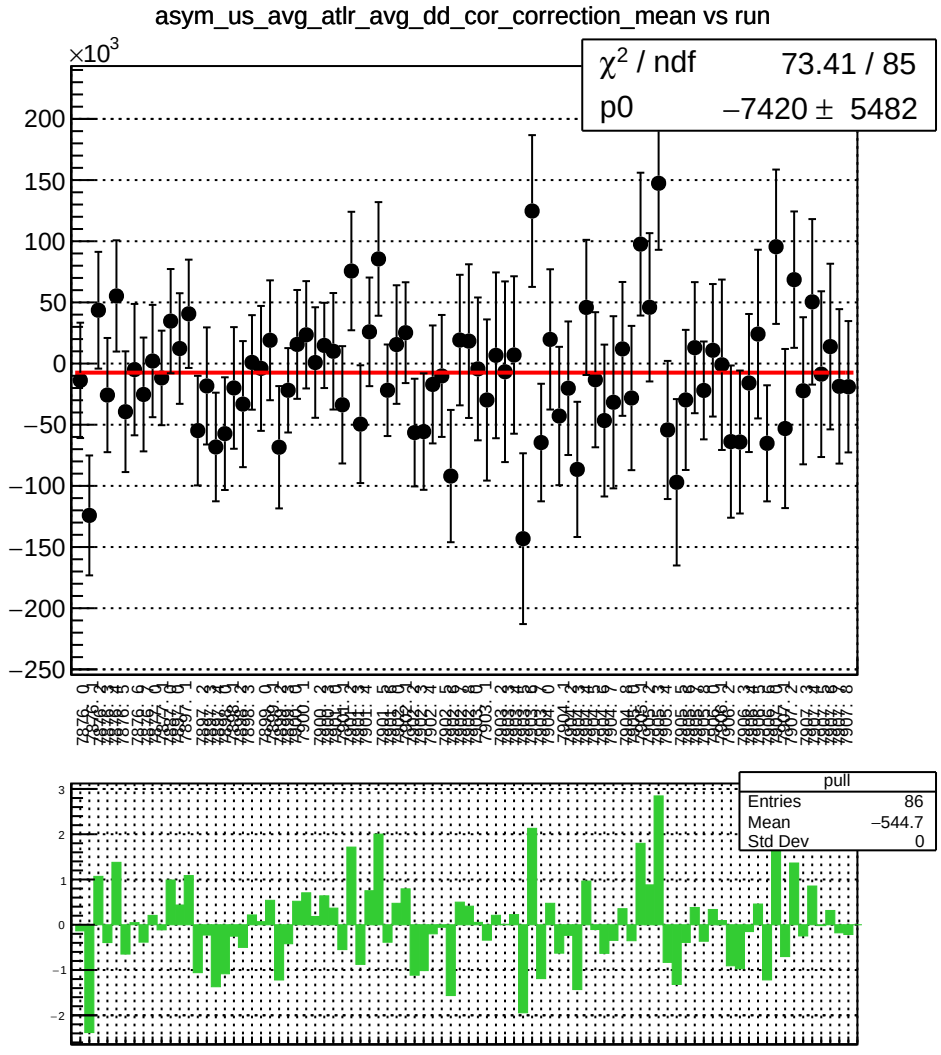

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 73.41 / 85
p0 −7420 ± 5482
pull
Entries 86
Mean −545.6
Std Dev 0
pull1D
Entries 86
Mean −0.001985
Std Dev 0.9239

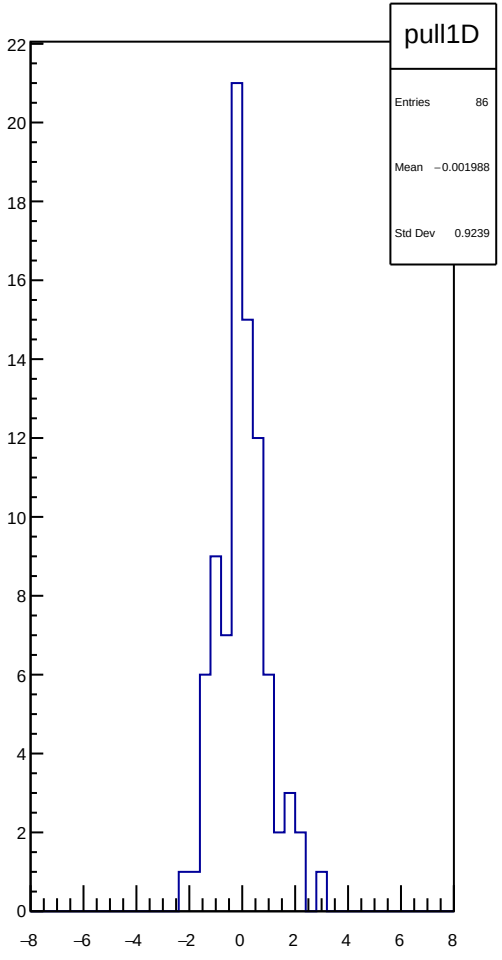

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 3.236e+04 / 85
p0 4988 ± 3.877
7000
6500
6000
5500
5000
4500
4000

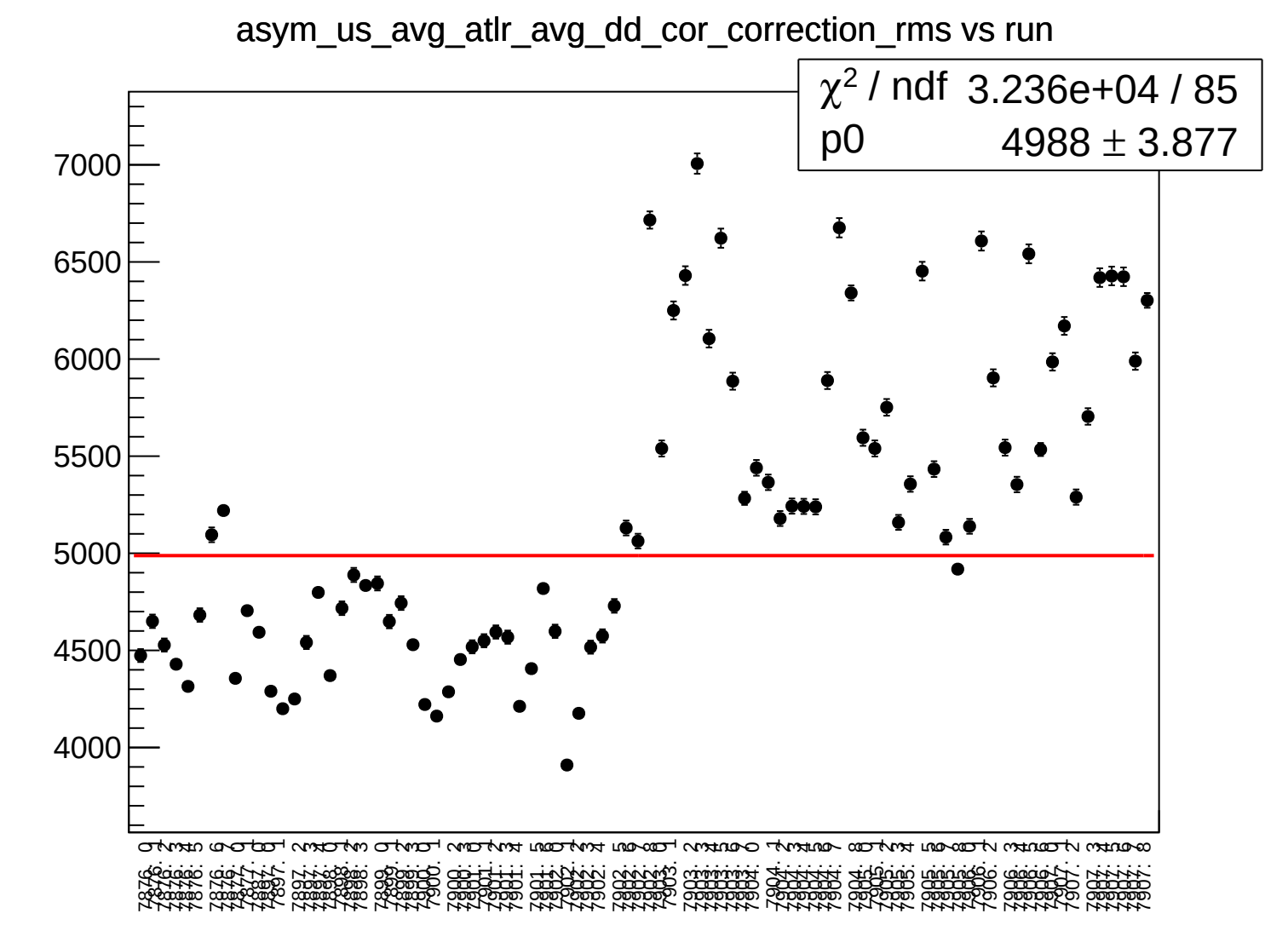

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 85.06 / 85
p0 360.1 ± 1253
pull
Entries 86
Mean 943.7
Std Dev 0

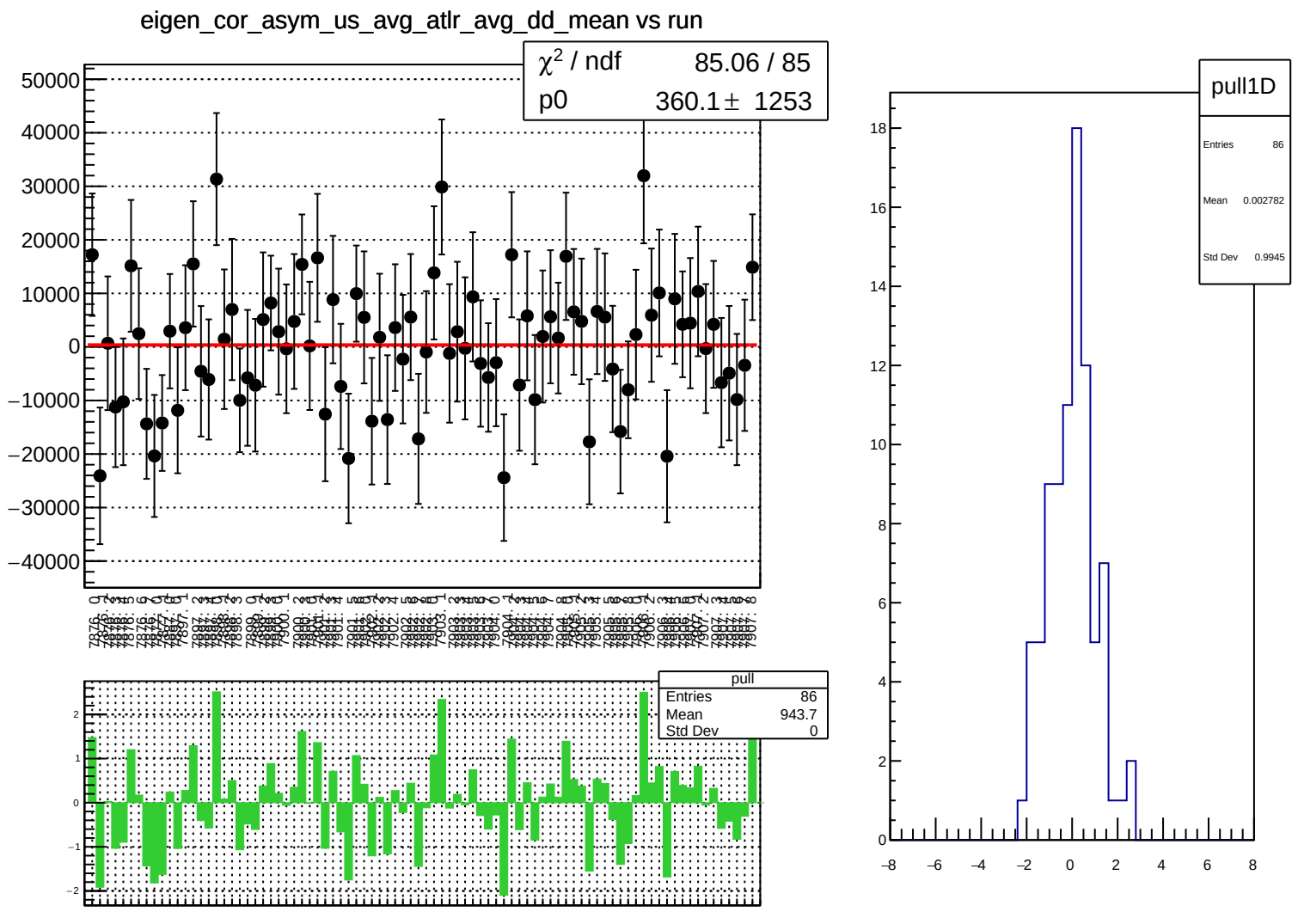

pull1D
Entries 86
Mean 0.002782
Std Dev 0.9945

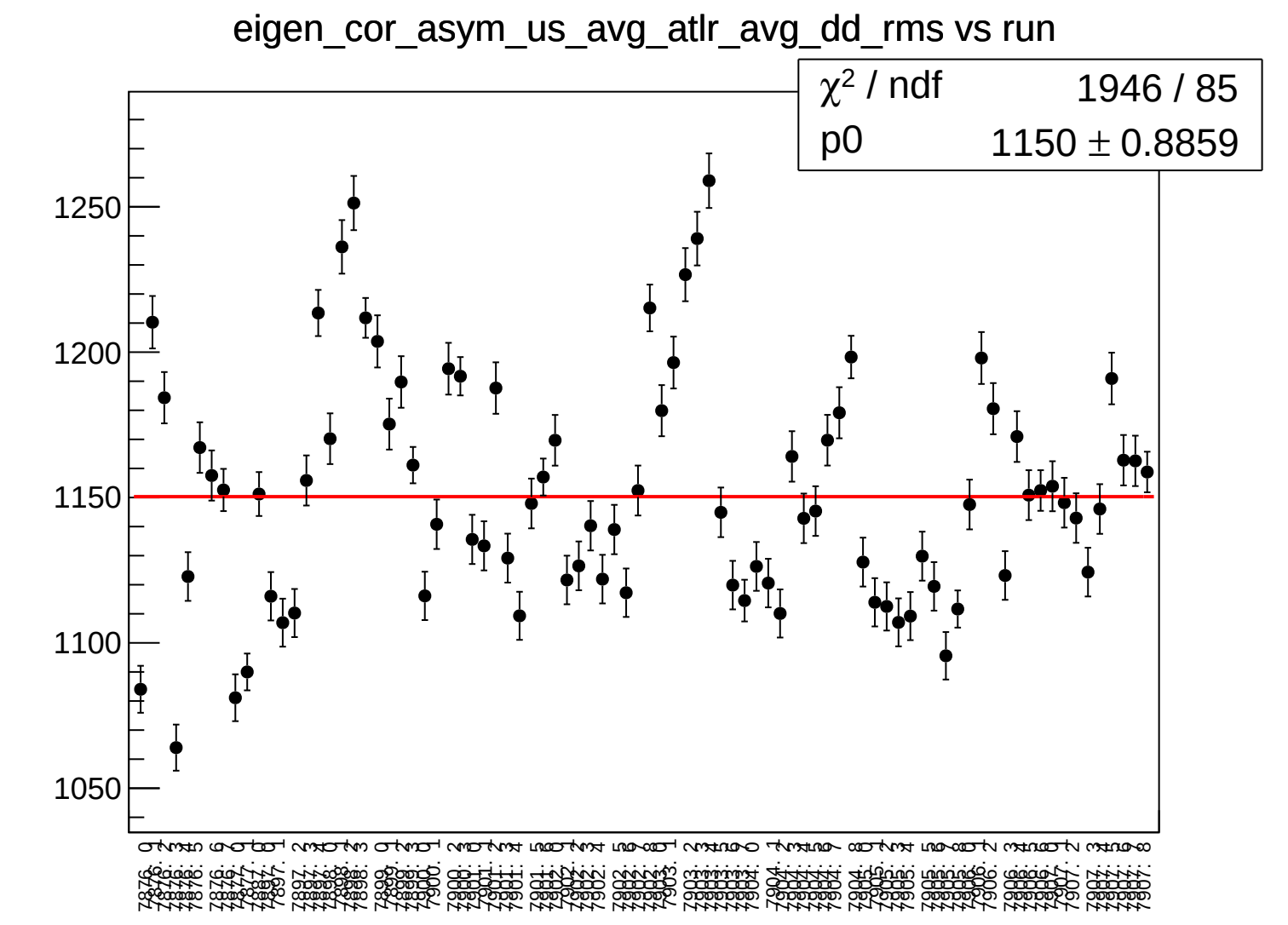

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1946 / 85
p0 1150 ± 0.8859
1250
1200
1150
1100
1050

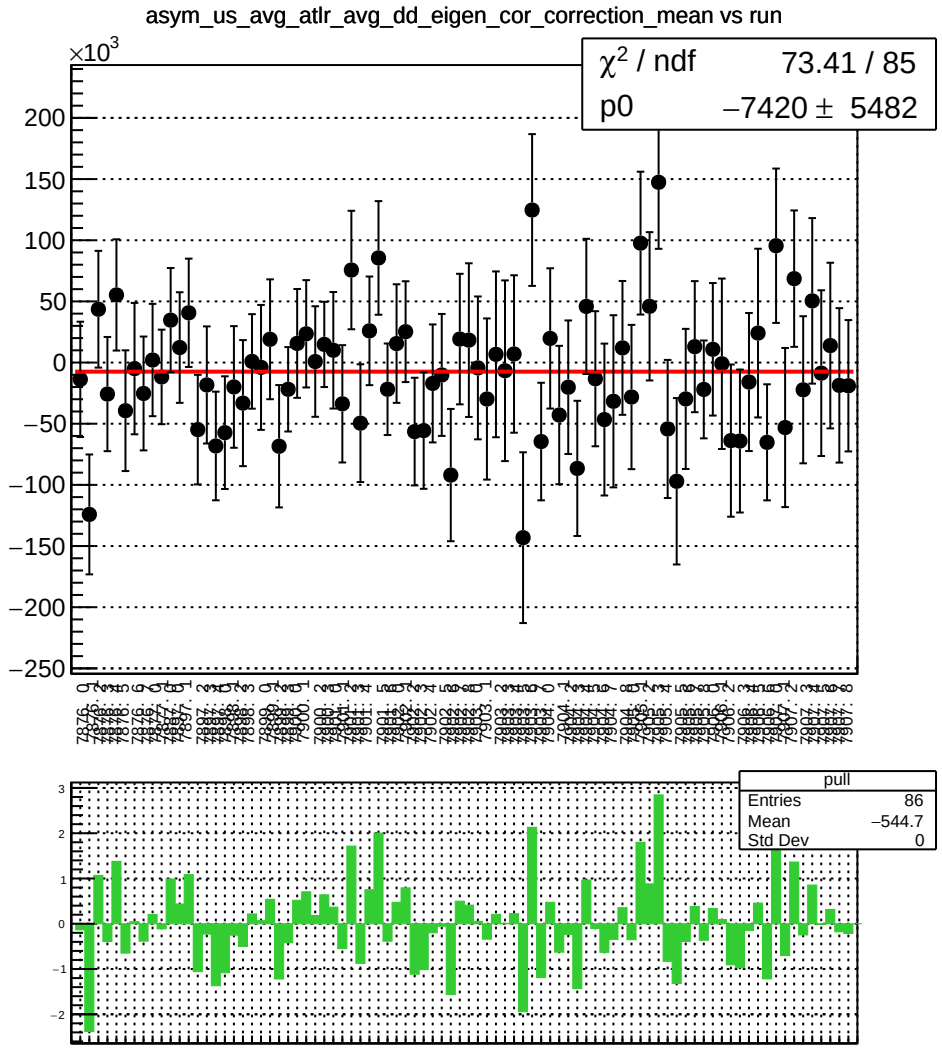

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 73.41 / 85
p0 −7420 ± 5482
pull
Entries 86
Mean −544.7
Std Dev 0

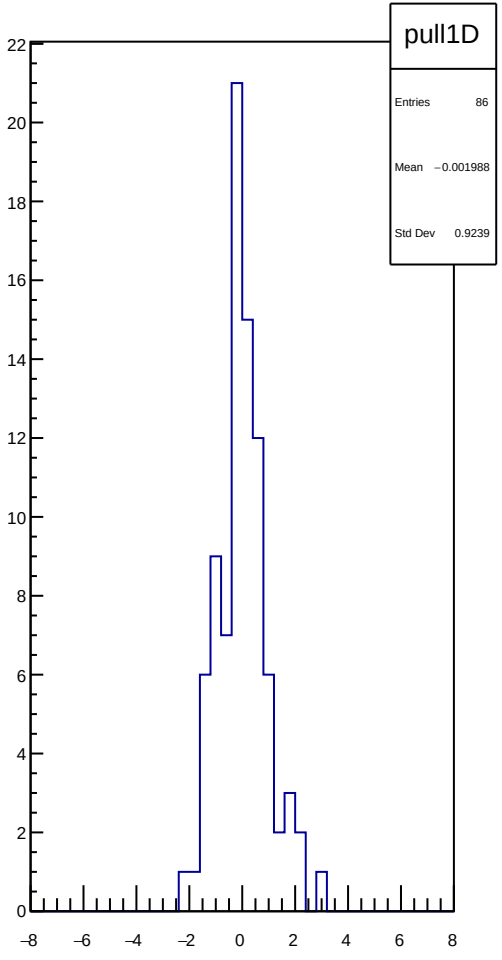

pull1D
Entries 86
Mean −0.001988
Std Dev 0.9239

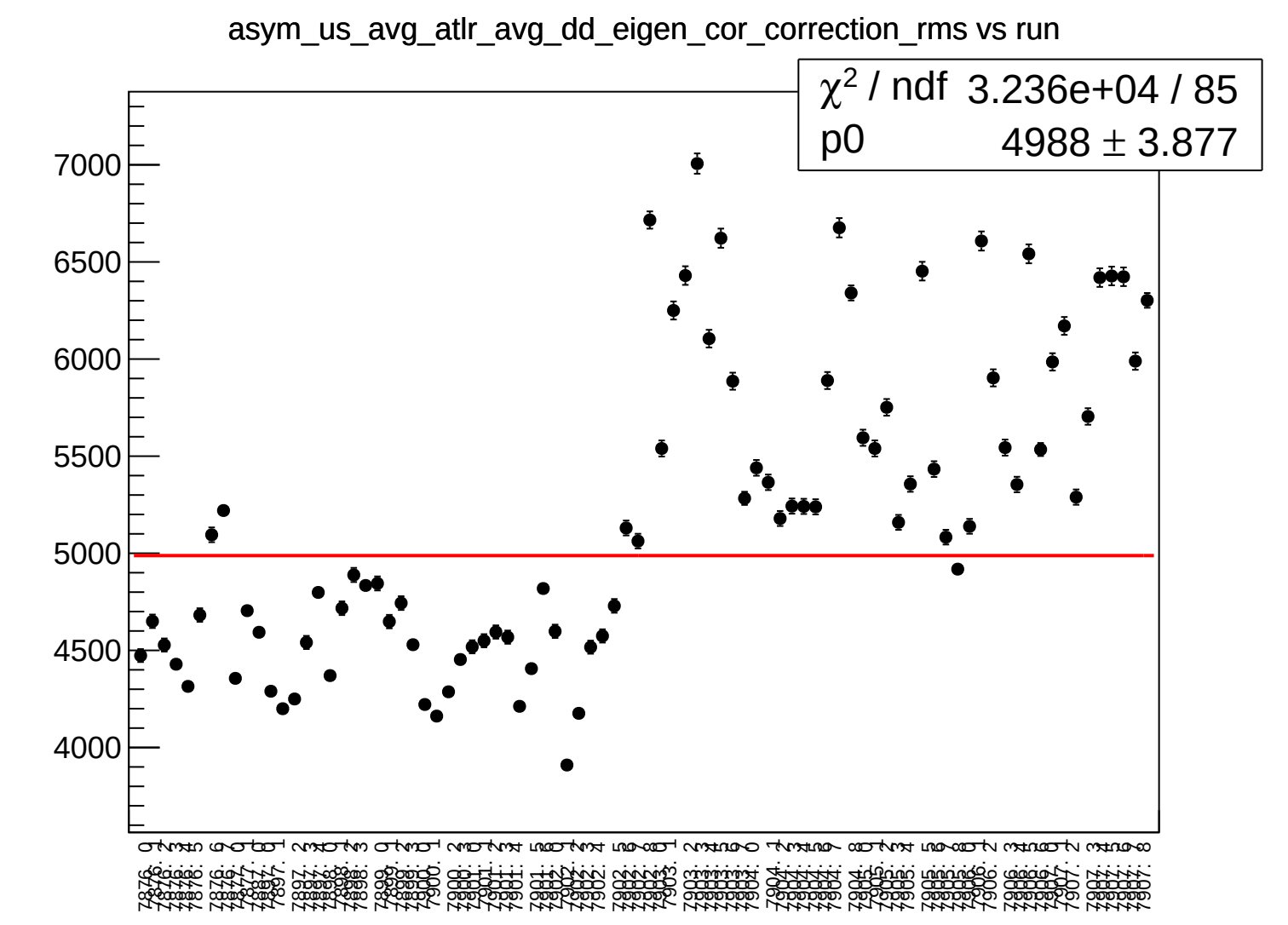

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.236e+04 / 85
p0 4988 ± 3.877
7000
6500
6000
5500
5000
4500
4000

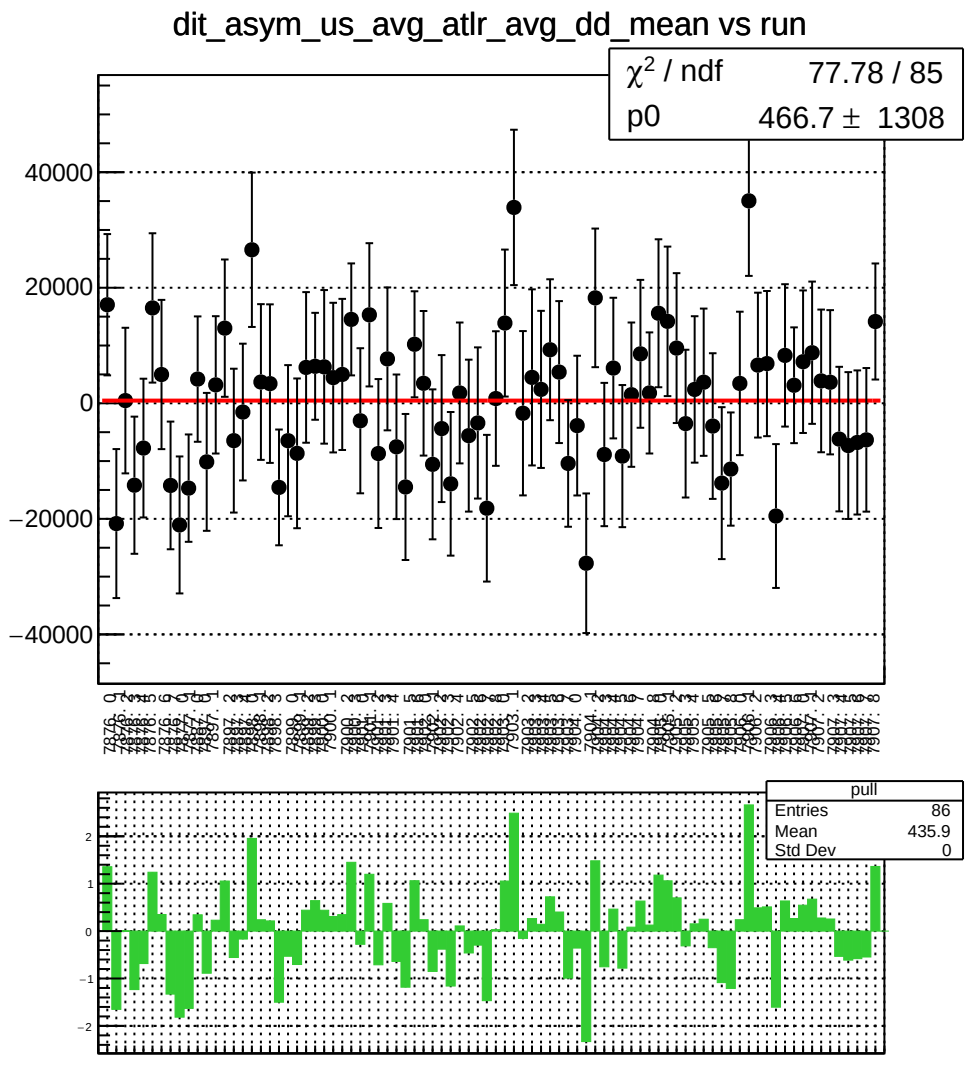

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 85.06 / 85
p0 360.1 ± 1253
pull
Entries 86
Mean 943.7
Std Dev 0
pull1D
Entries 86
Mean 0.002782
Std Dev 0.9945

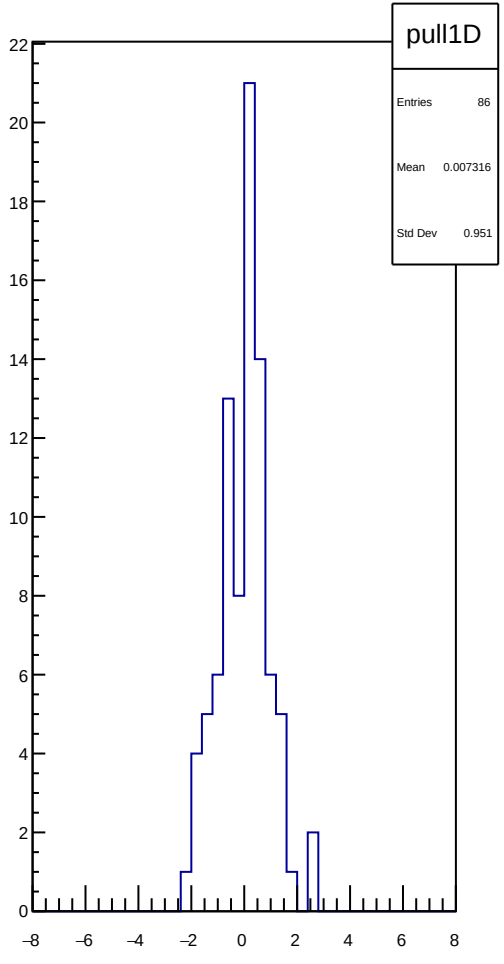

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1946 / 85
p0 1150 ± 0.8859
1250
1200
1150
1100
1050

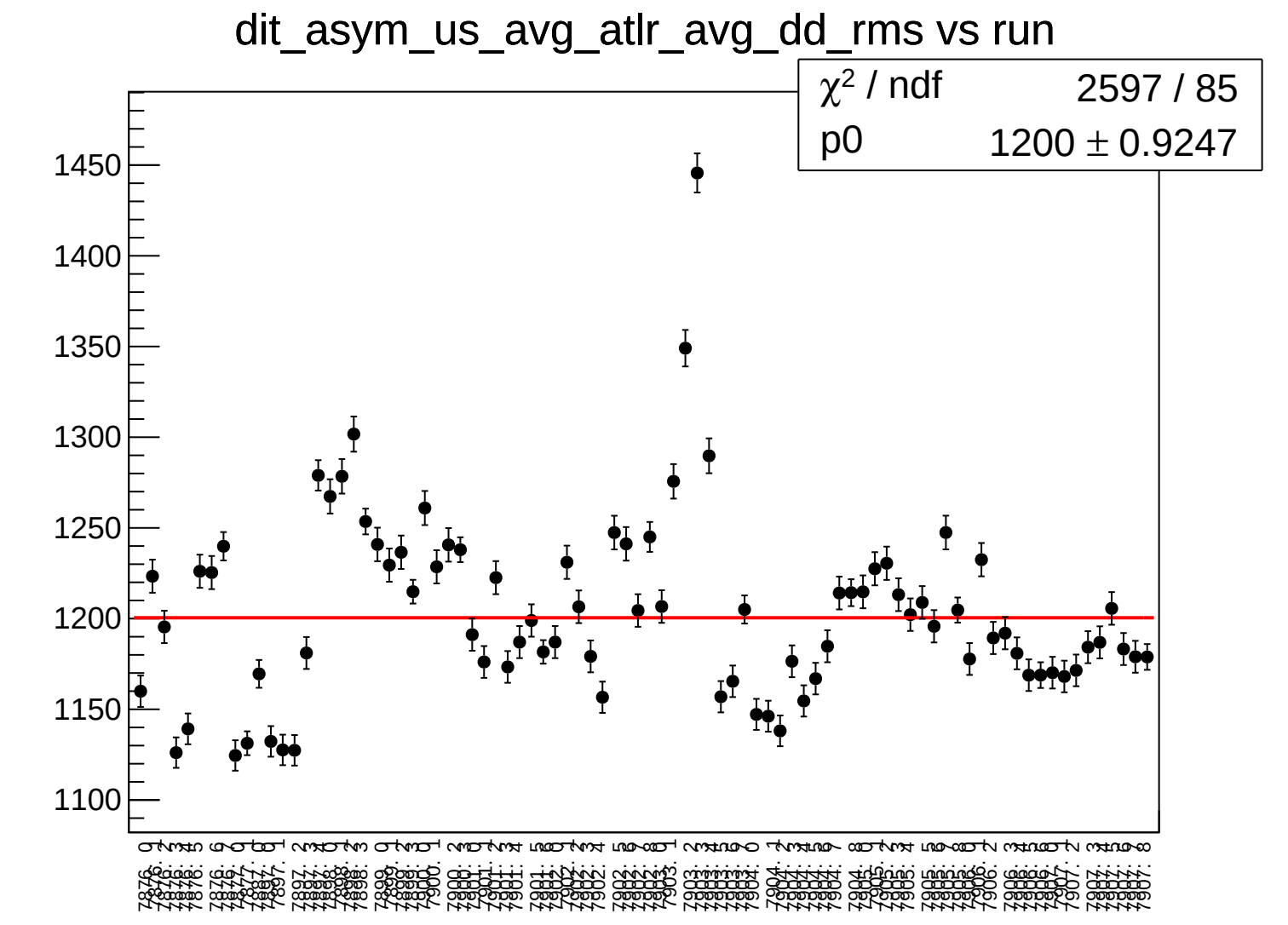

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 73.41 / 85
p0 −7420 ± 5482
pull
Entries 86
Mean −544.7
Std Dev 0

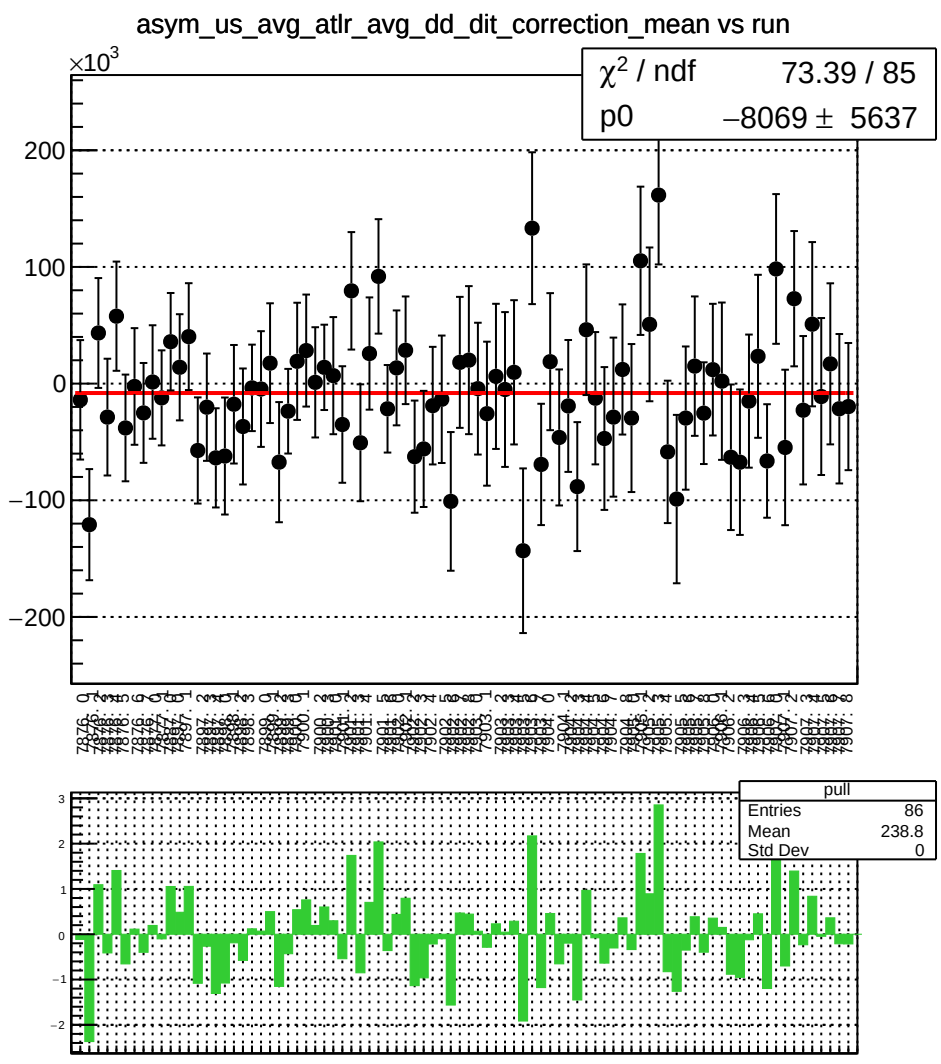

pull1D
Entries 86
Mean −0.001988
Std Dev 0.9239

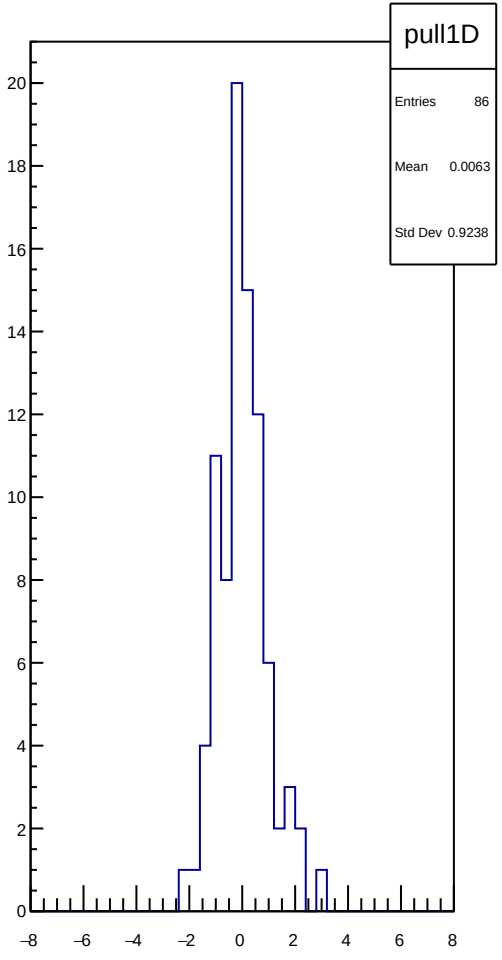

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.236e+04 / 85
p0 4988 ± 3.877
7000
6500
6000
5500
5000
4500
4000

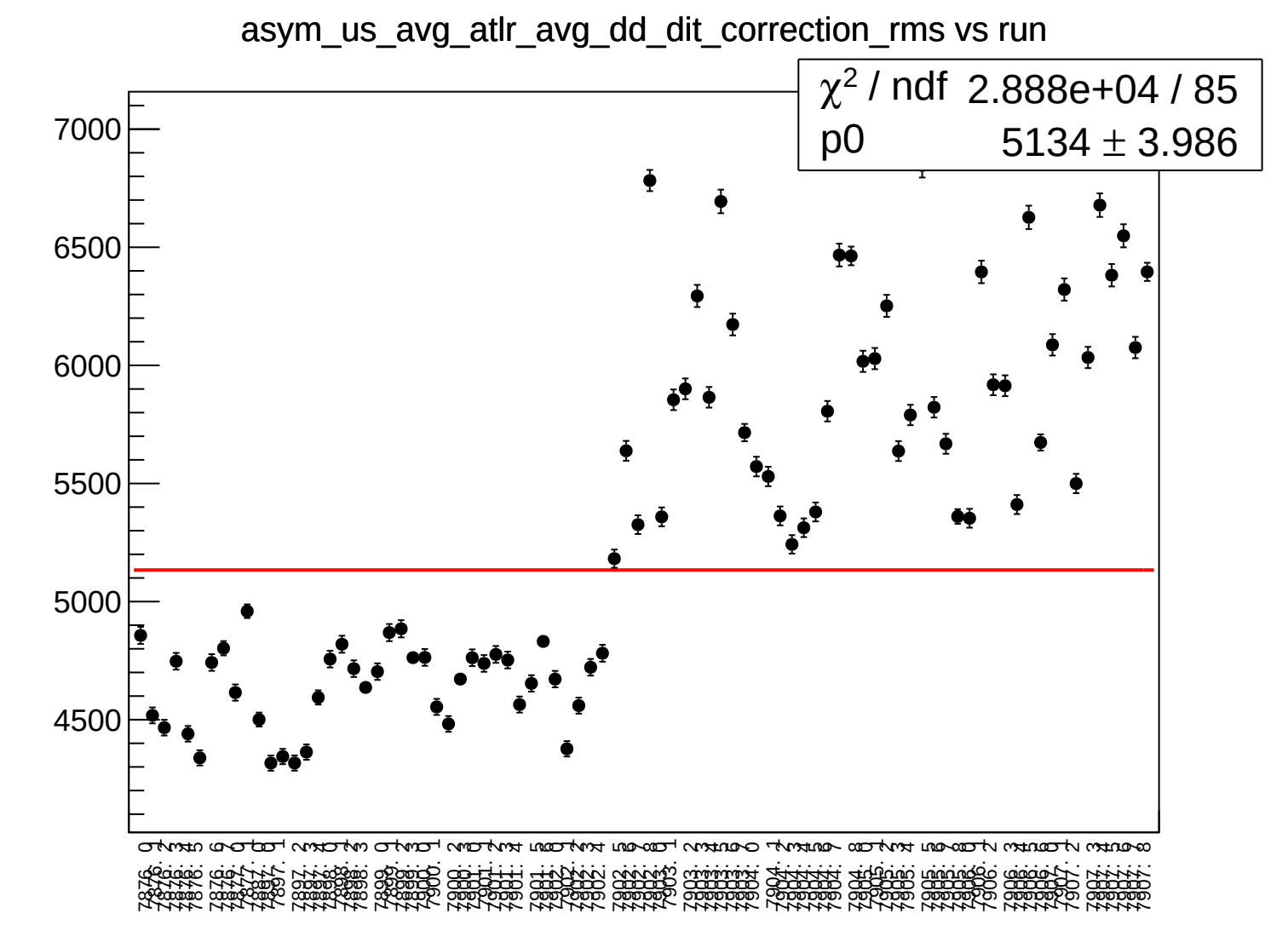

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 77.78 / 85
p0 466.7 ± 1308
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 435.9
Std Dev 0
2
1
0
−1
−2

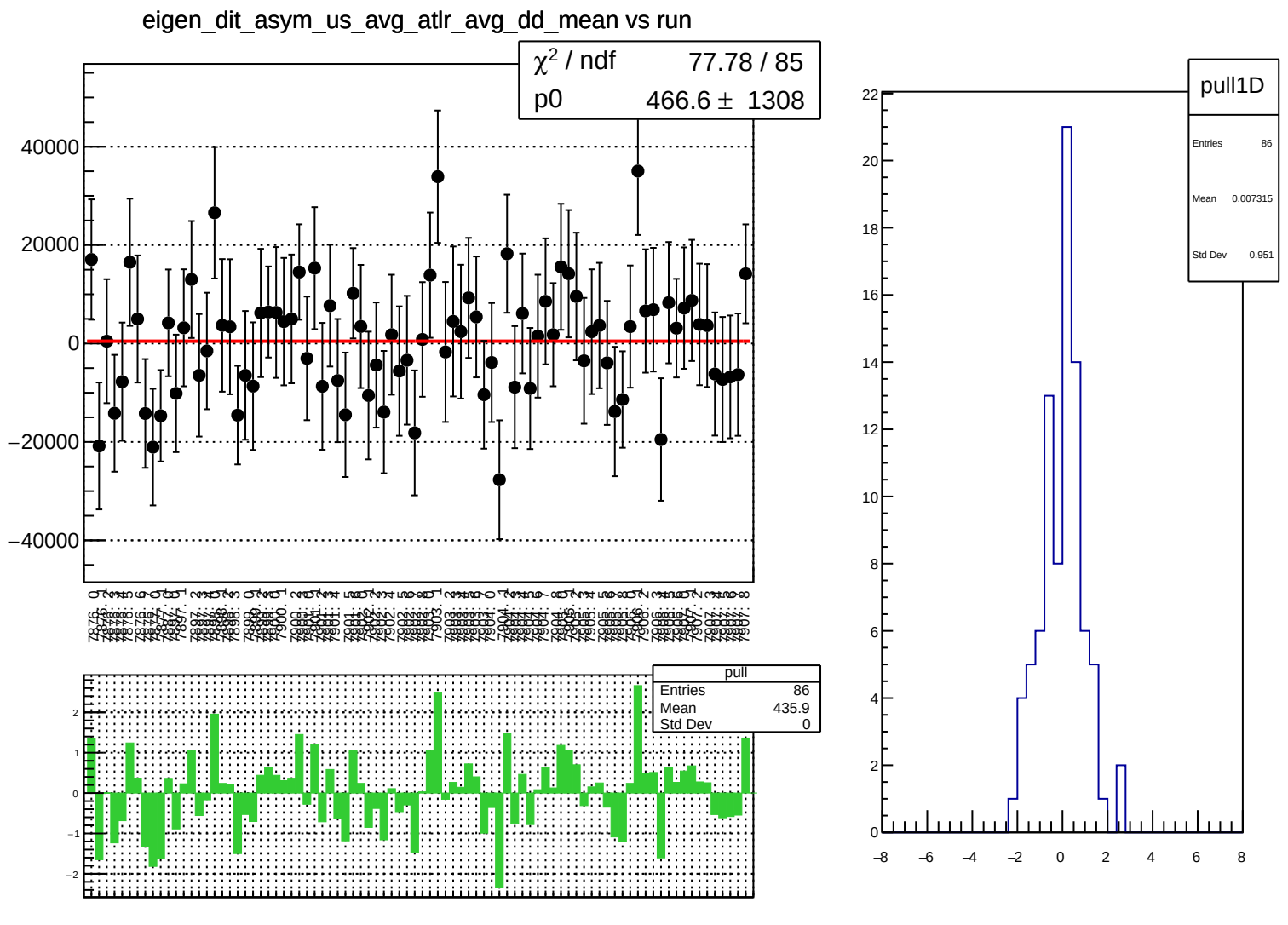

pull1D
Entries 86
Mean 0.007316
Std Dev 0.951
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

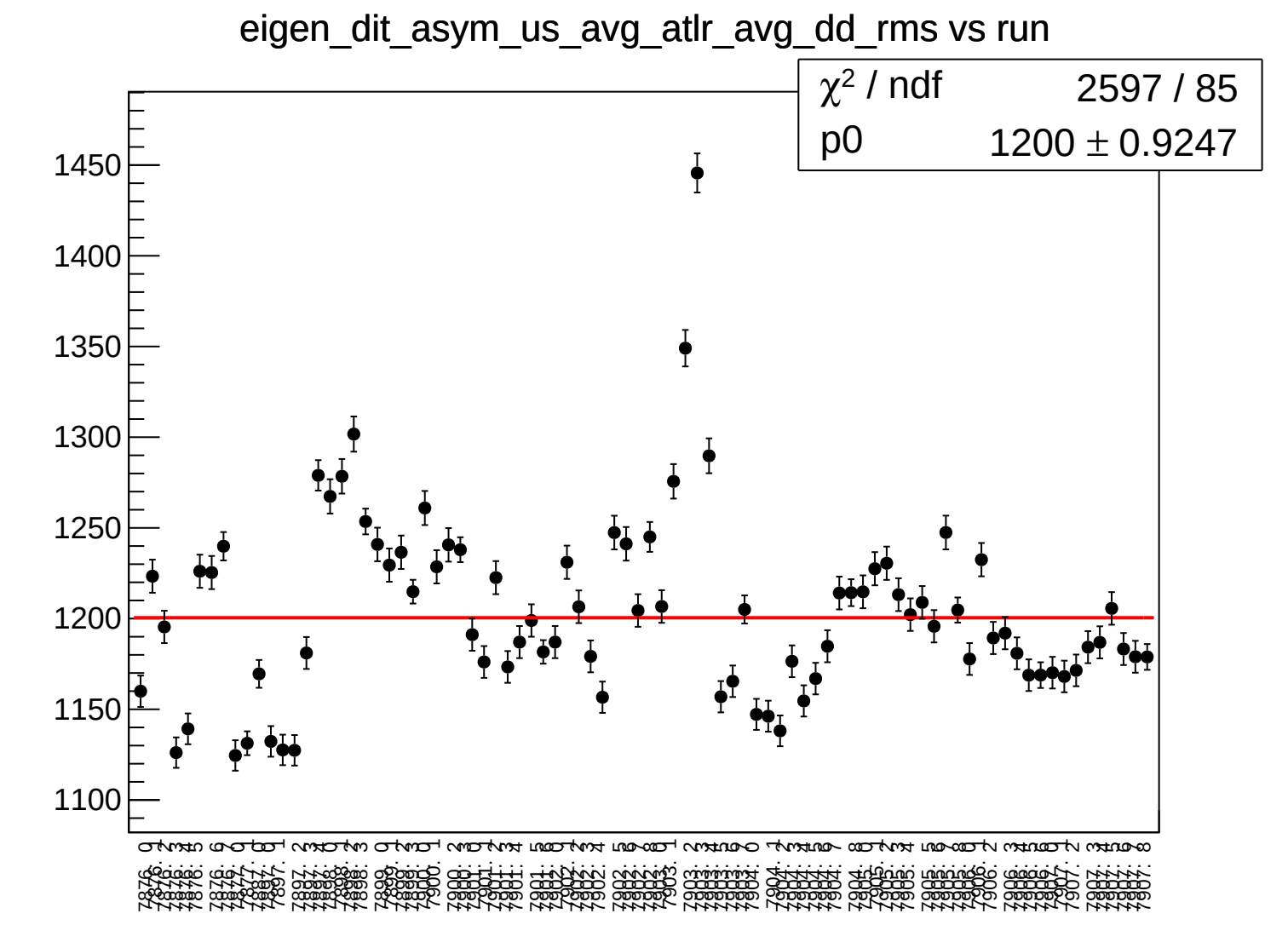

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2597 / 85
p0 1200 ± 0.9247
1450
1400
1350
1300
1250
1200
1150
1100

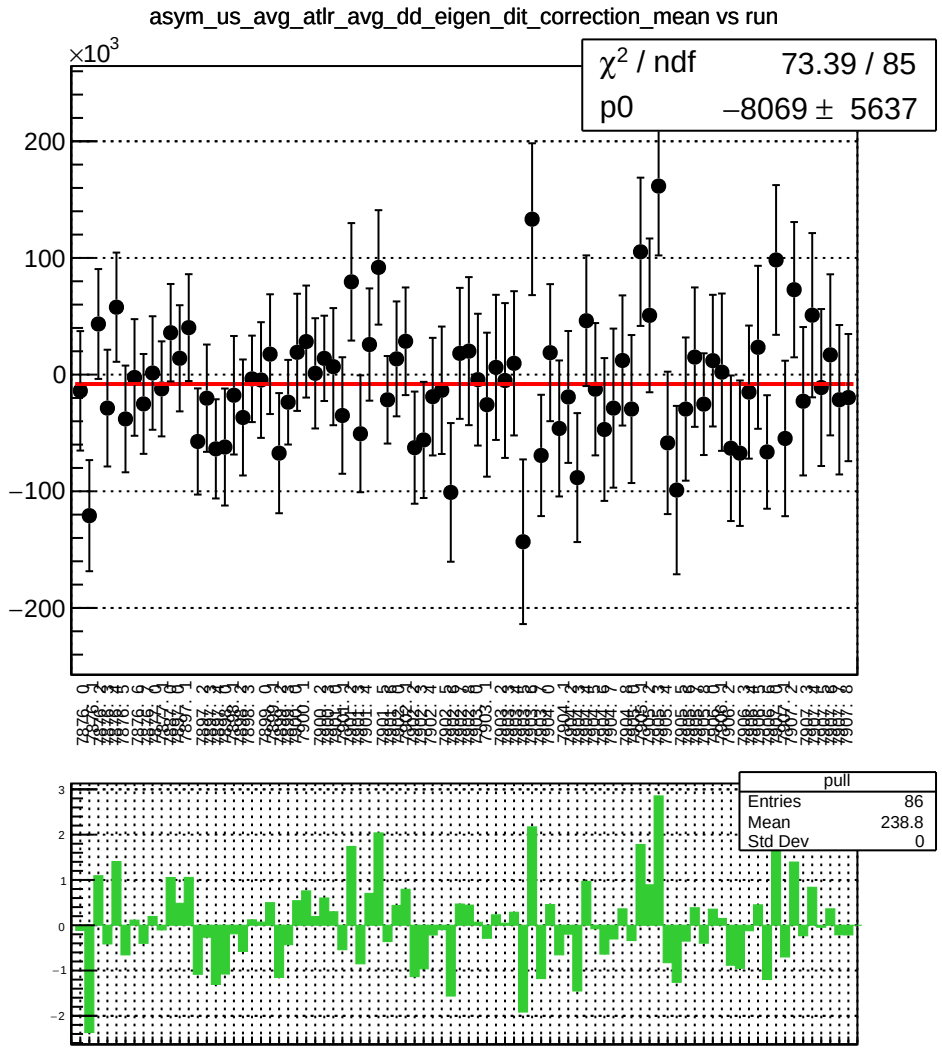

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 73.39 / 85
p0 −8069 ± 5637
200
100
0
−100
−200
pull
Entries 86
Mean 238.8
Std Dev 0
3
2
1
0
−1
−2

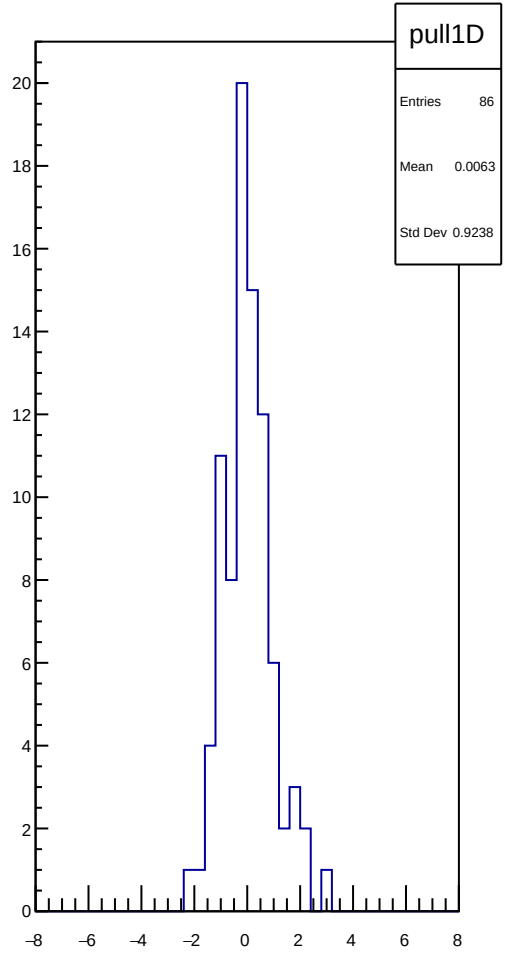

pull1D
Entries 86
Mean 0.0063
Std Dev 0.9238
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

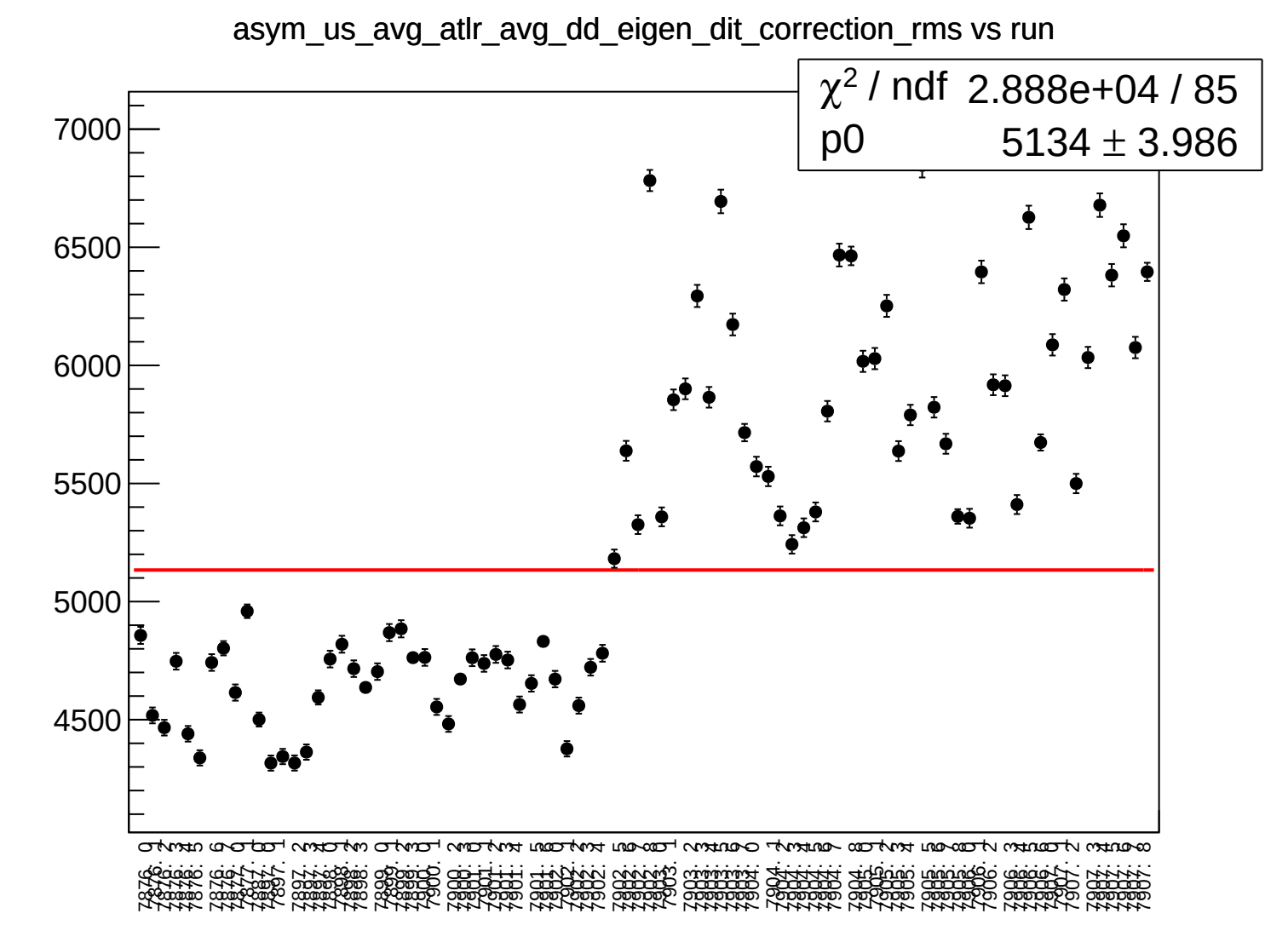

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 2.888e+04 / 85
p0 5134 ± 3.986
7000
6500
6000
5500
5000
4500

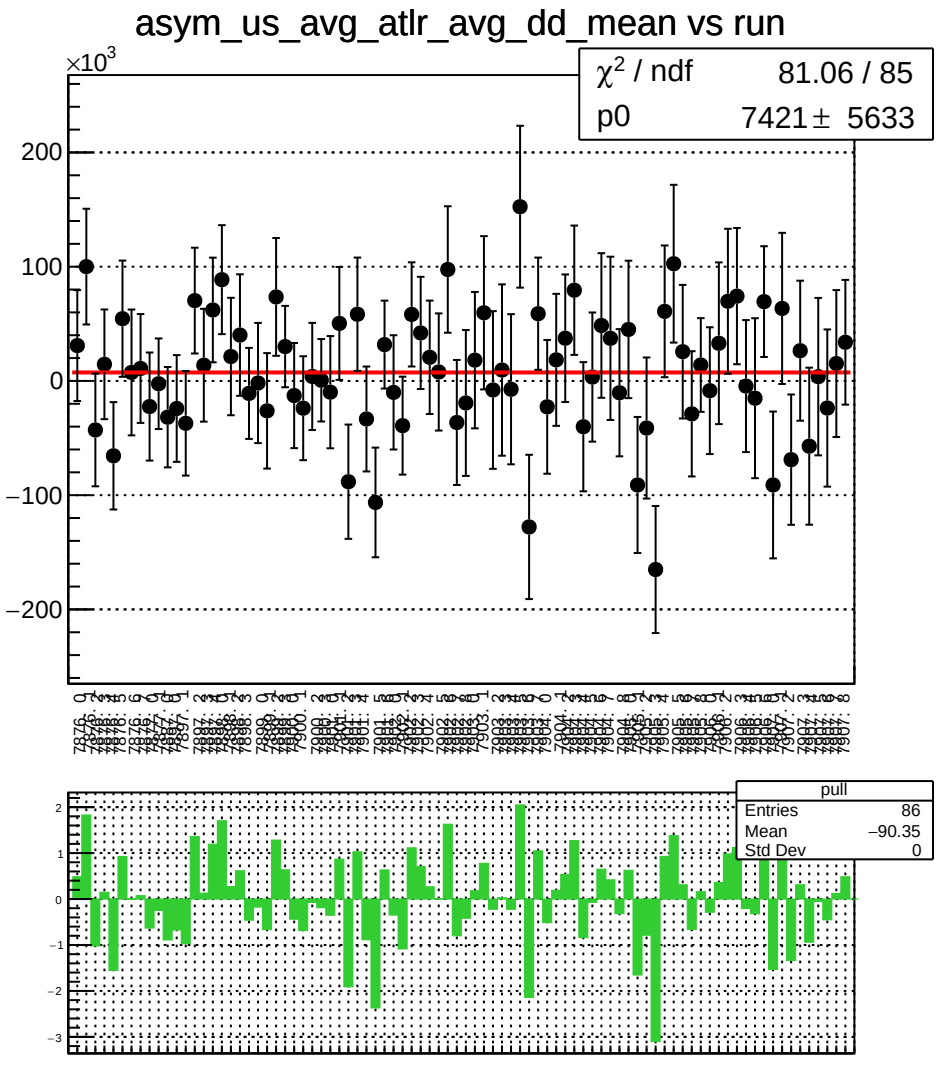

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 77.78 / 85
p0 466.6 ± 1308
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 435.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.007315
Std Dev 0.951
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

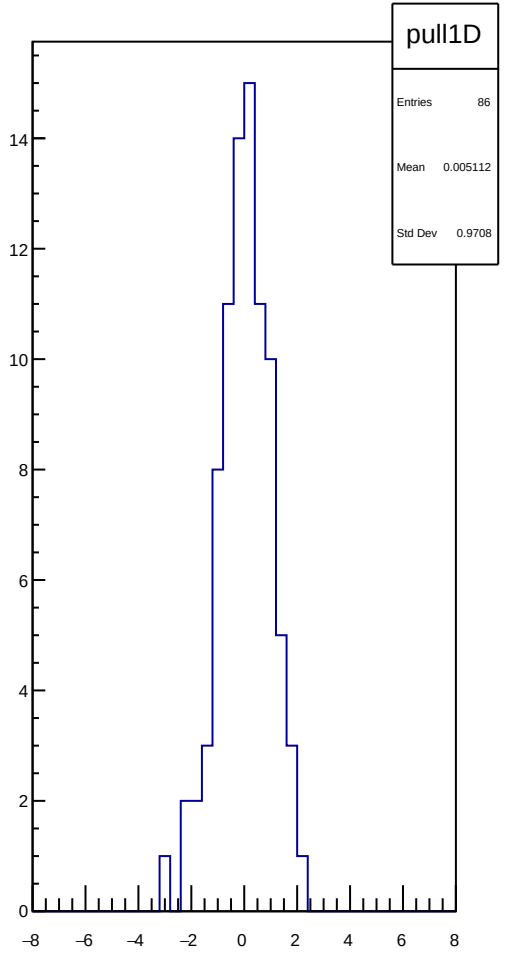

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 2597 / 85
p0 1200 ± 0.9247
1450
1400
1350
1300
1250
1200
1150
1100

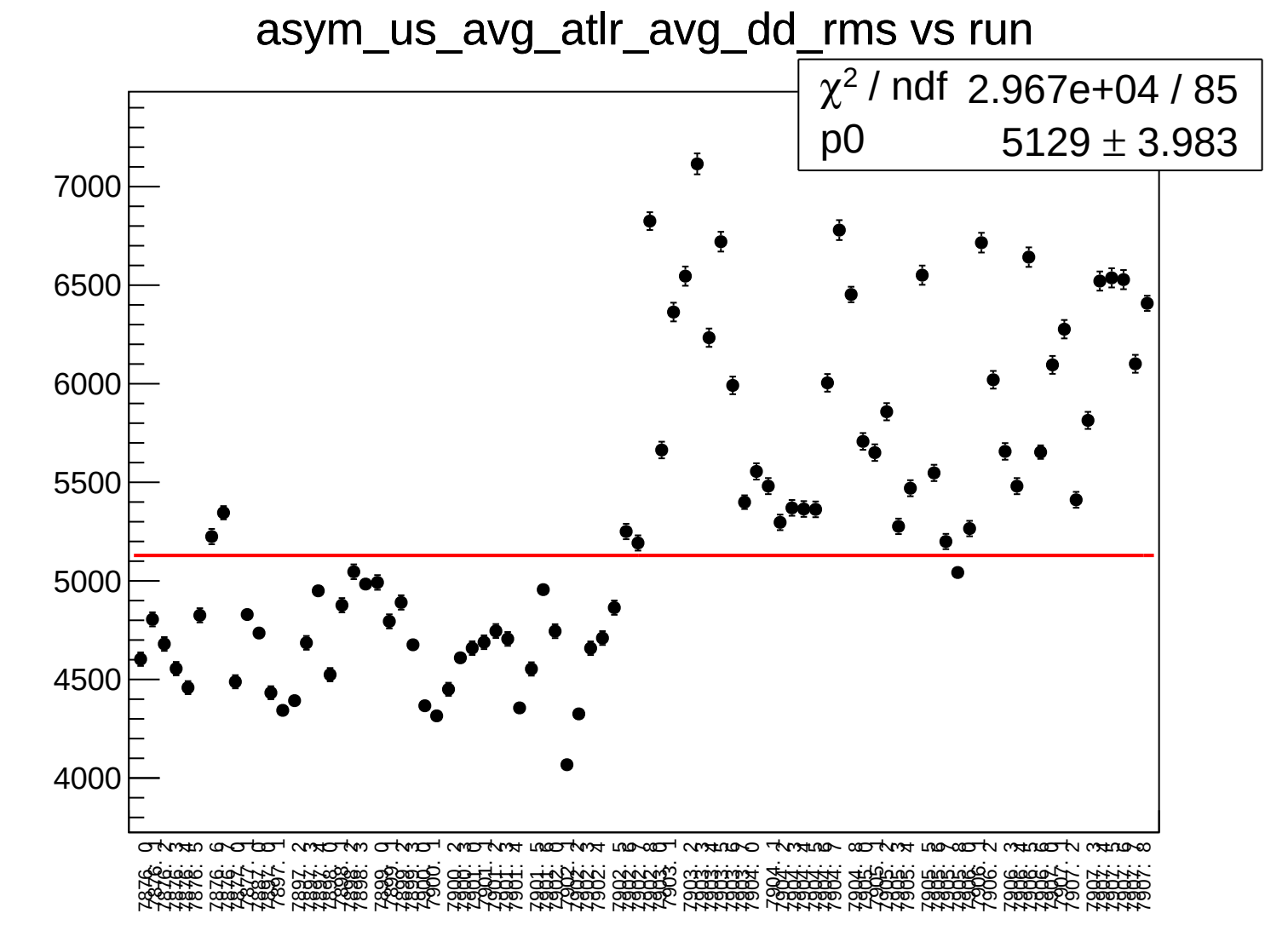

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 73.39 / 85
p0 −8069 ± 5637
200
100
0
−100
−200
pull
Entries 86
Mean 238.8
Std Dev 0
3
2
1
0
−1
−2

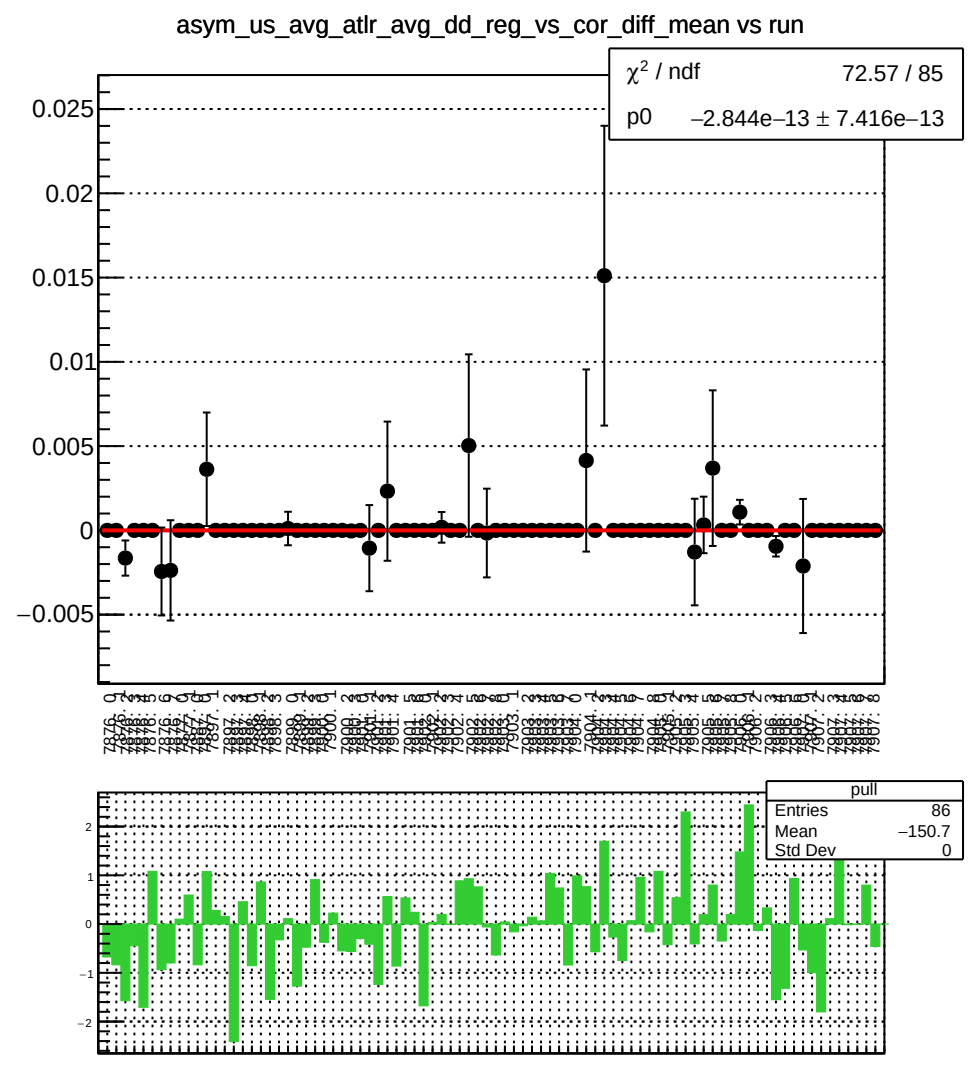

pull1D
Entries 86
Mean 0.0063
Std Dev 0.9238
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

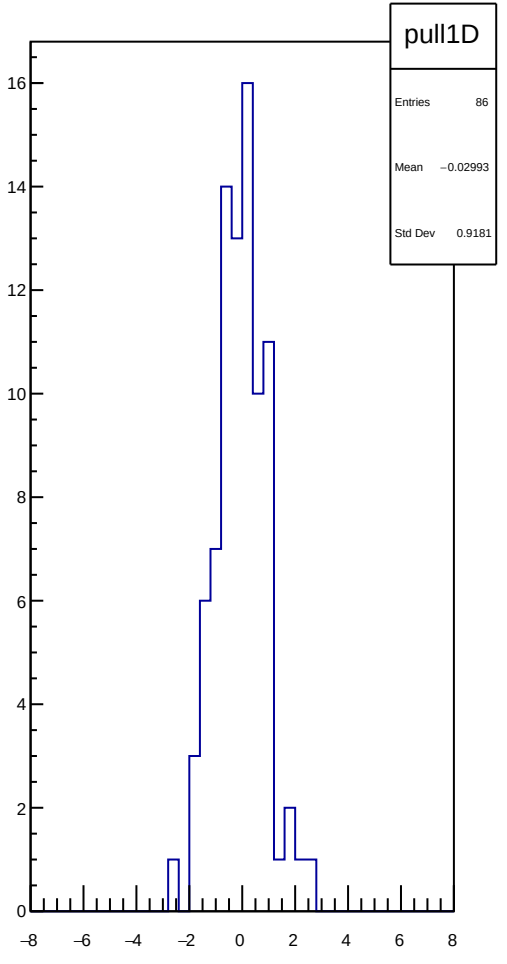

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2.888e+04 / 85
p0 5134 ± 3.986
7000
6500
6000
5500
5000
4500

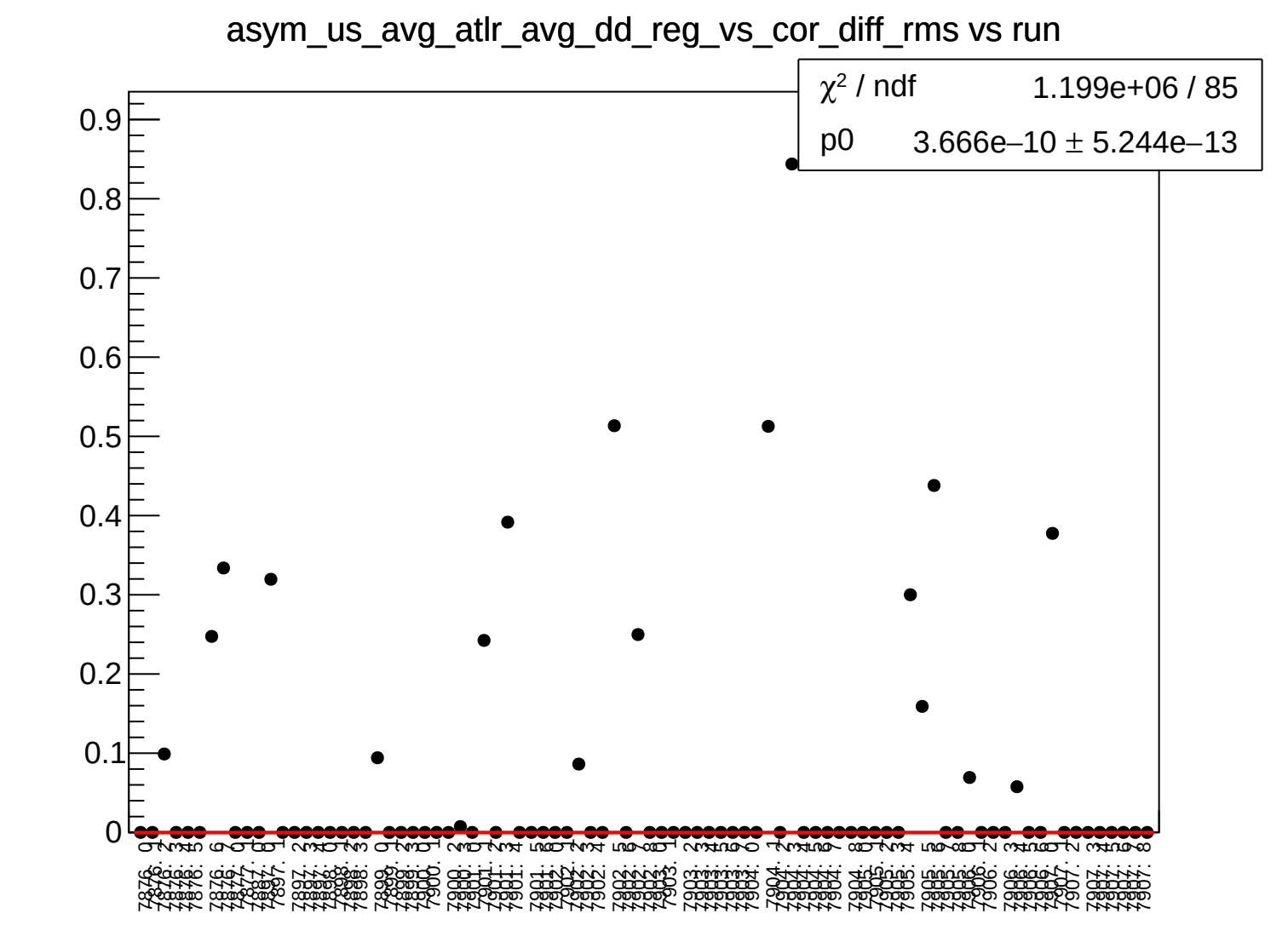

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 81.06 / 85
p0 7421 ± 5633
200
100
0
−100
−200
pull
Entries 86
Mean −90.35
Std Dev 0
2
1
0
−1
−2
−3

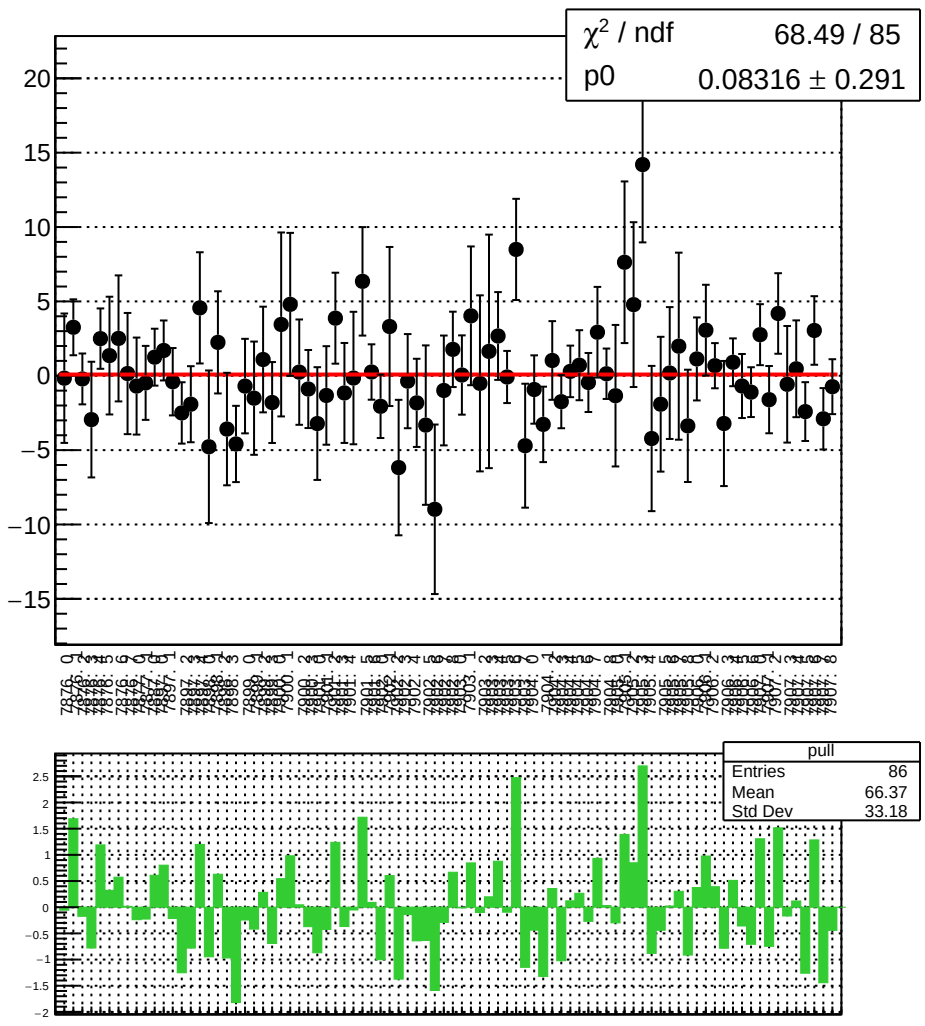

pull1D
Entries 86
Mean 0.005112
Std Dev 0.9708
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

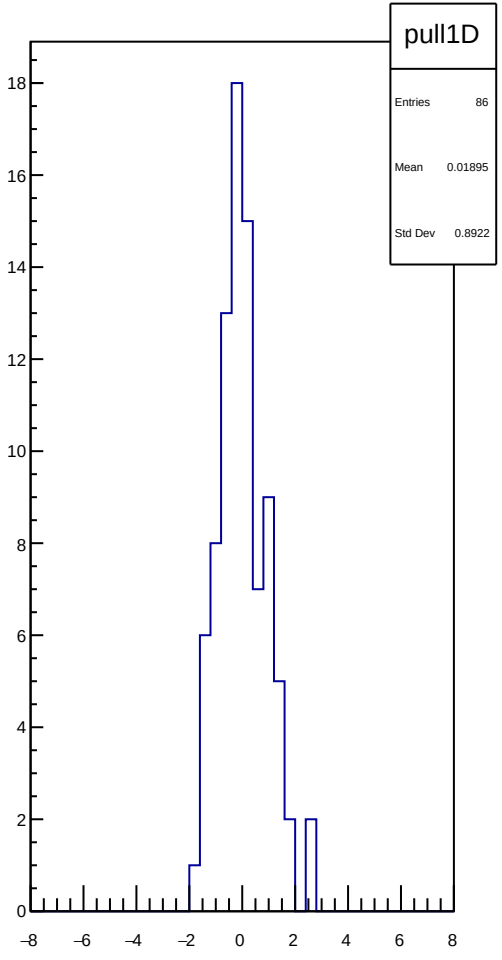

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 2.967e+04 / 85
p0 5129 ± 3.983
7000
6500
6000
5500
5000
4500
4000

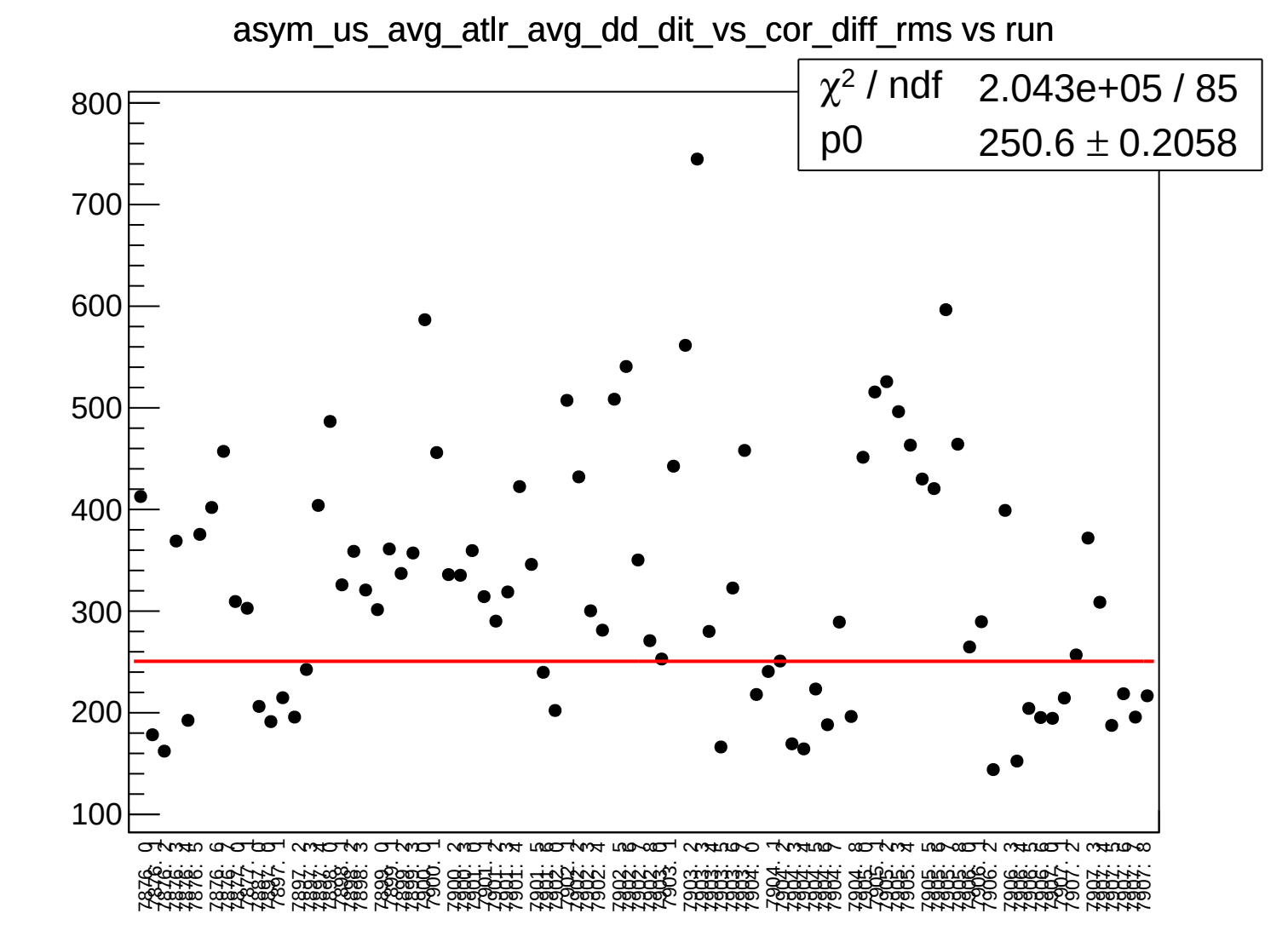

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.57 / 85
p0 −2.844e−13 ± 7.416e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
pull
Entries 86
Mean −150.7
Std Dev 0
2
1
0
−1
−2

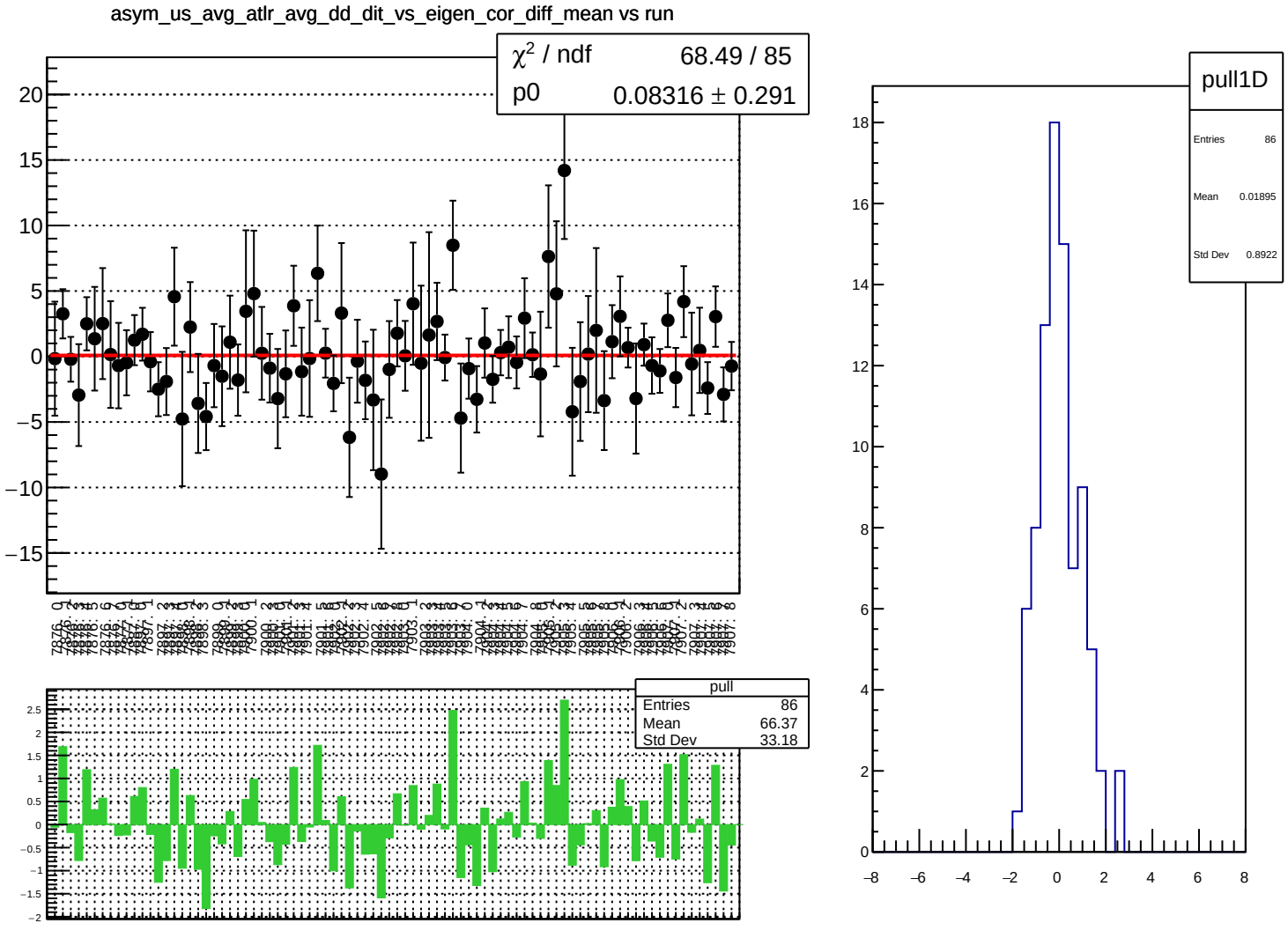

pull1D
Entries 86
Mean −0.02993
Std Dev 0.9181
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

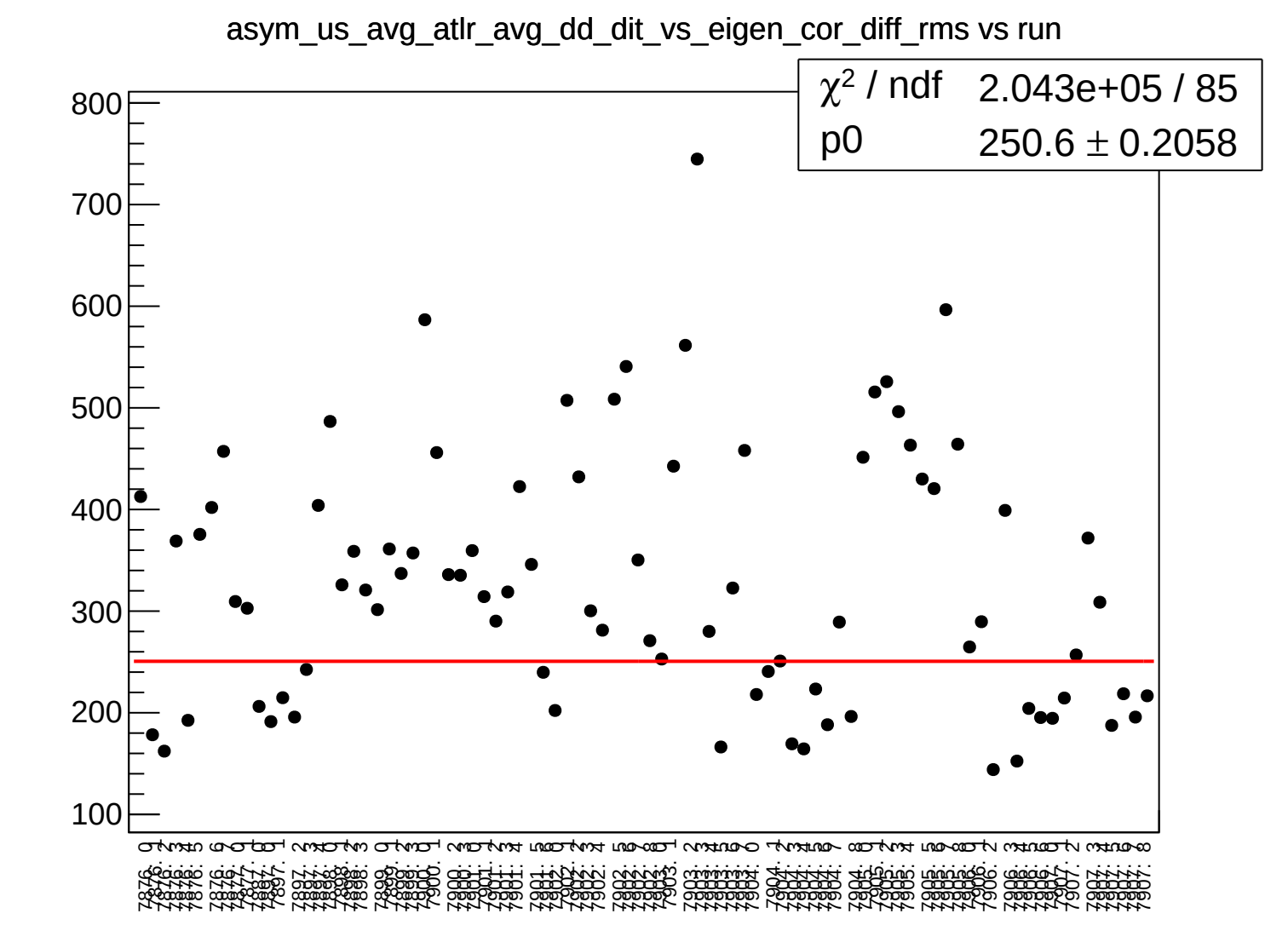

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.199e+06 / 85
p0 3.666e−10 ± 5.244e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

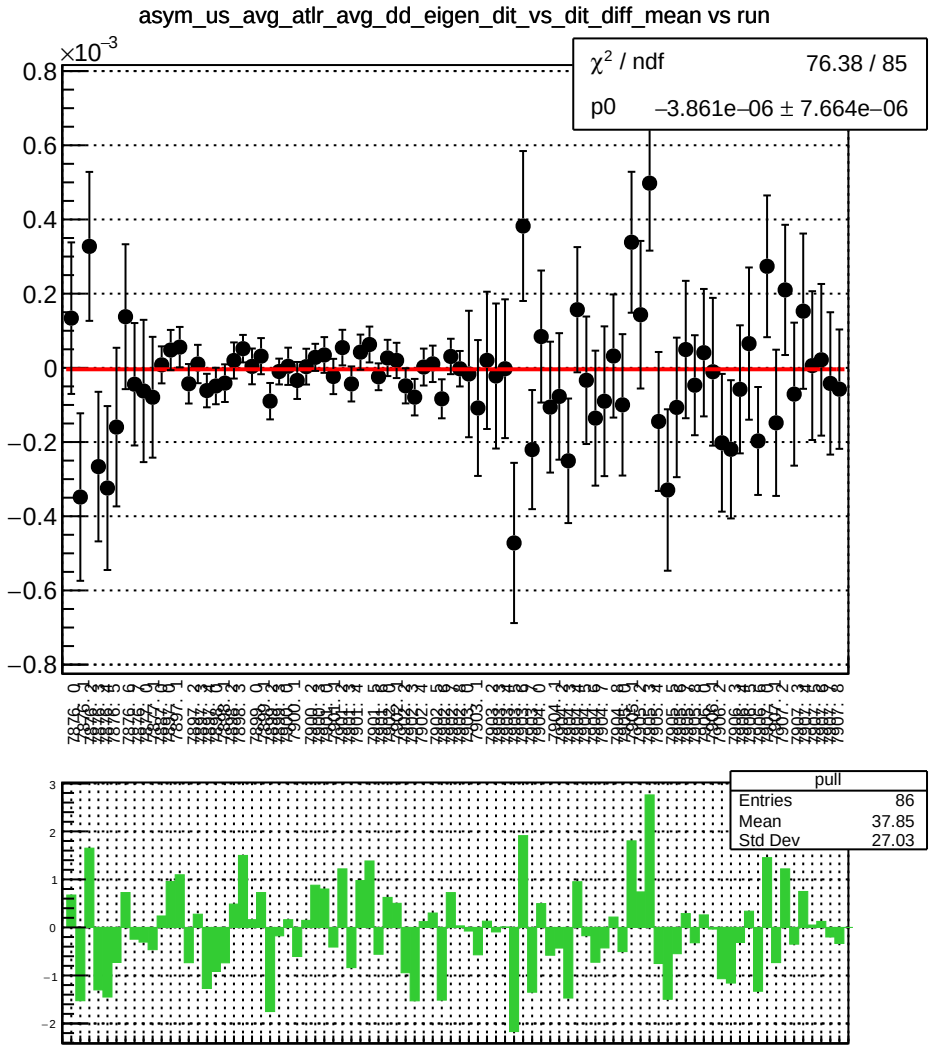

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.49 / 85
p0 0.08316 ± 0.291
pull
Entries 86
Mean 66.37
Std Dev 33.18

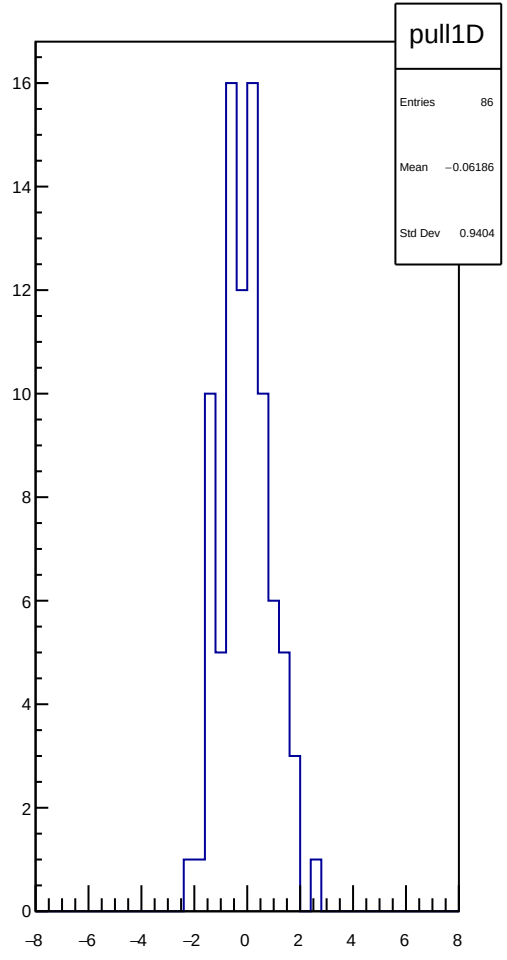

pull1D
Entries 86
Mean 0.01895
Std Dev 0.8922

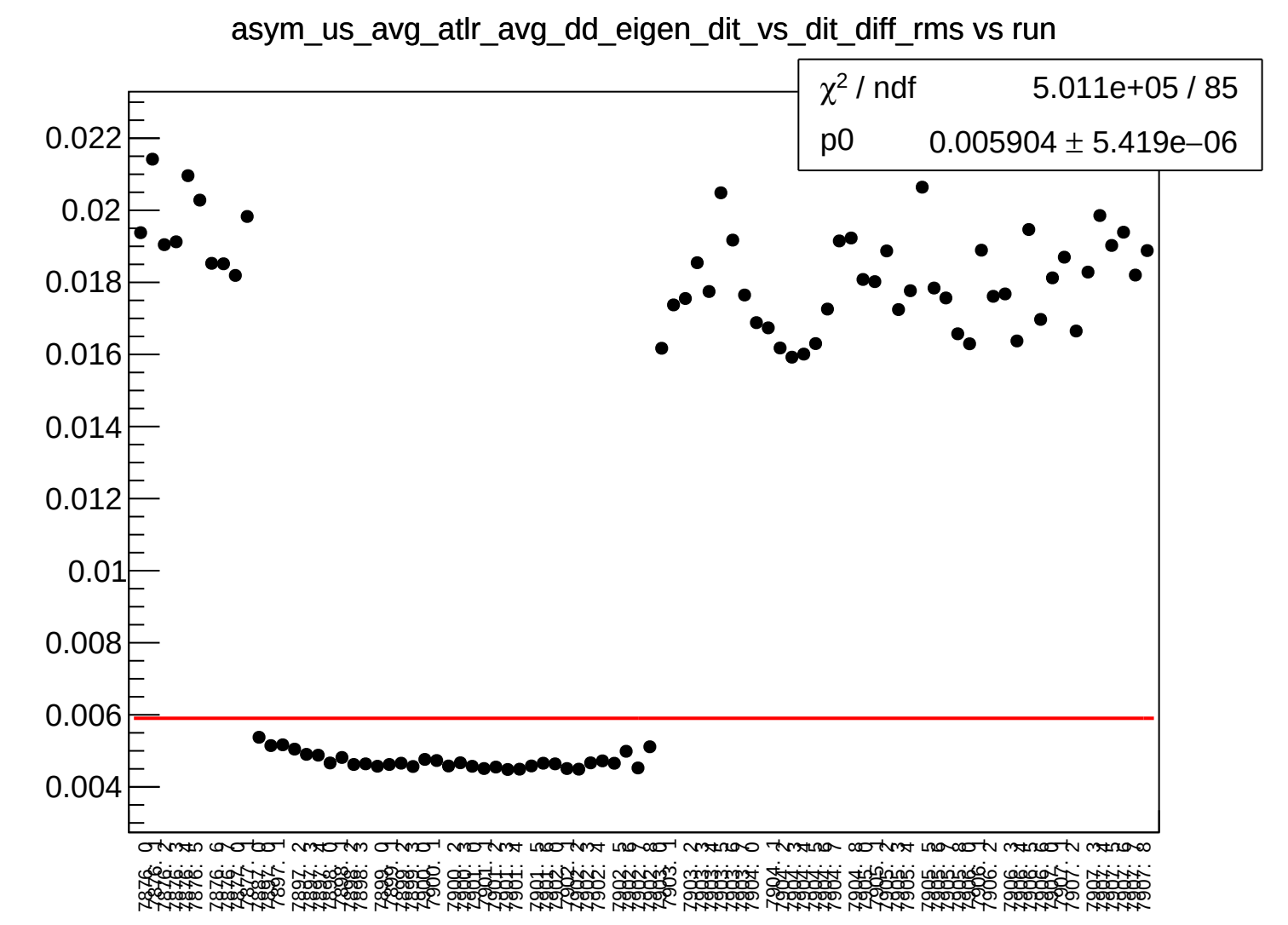

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.043e+05 / 85
p0 250.6 ± 0.2058
800
700
600
500
400
300
200
100

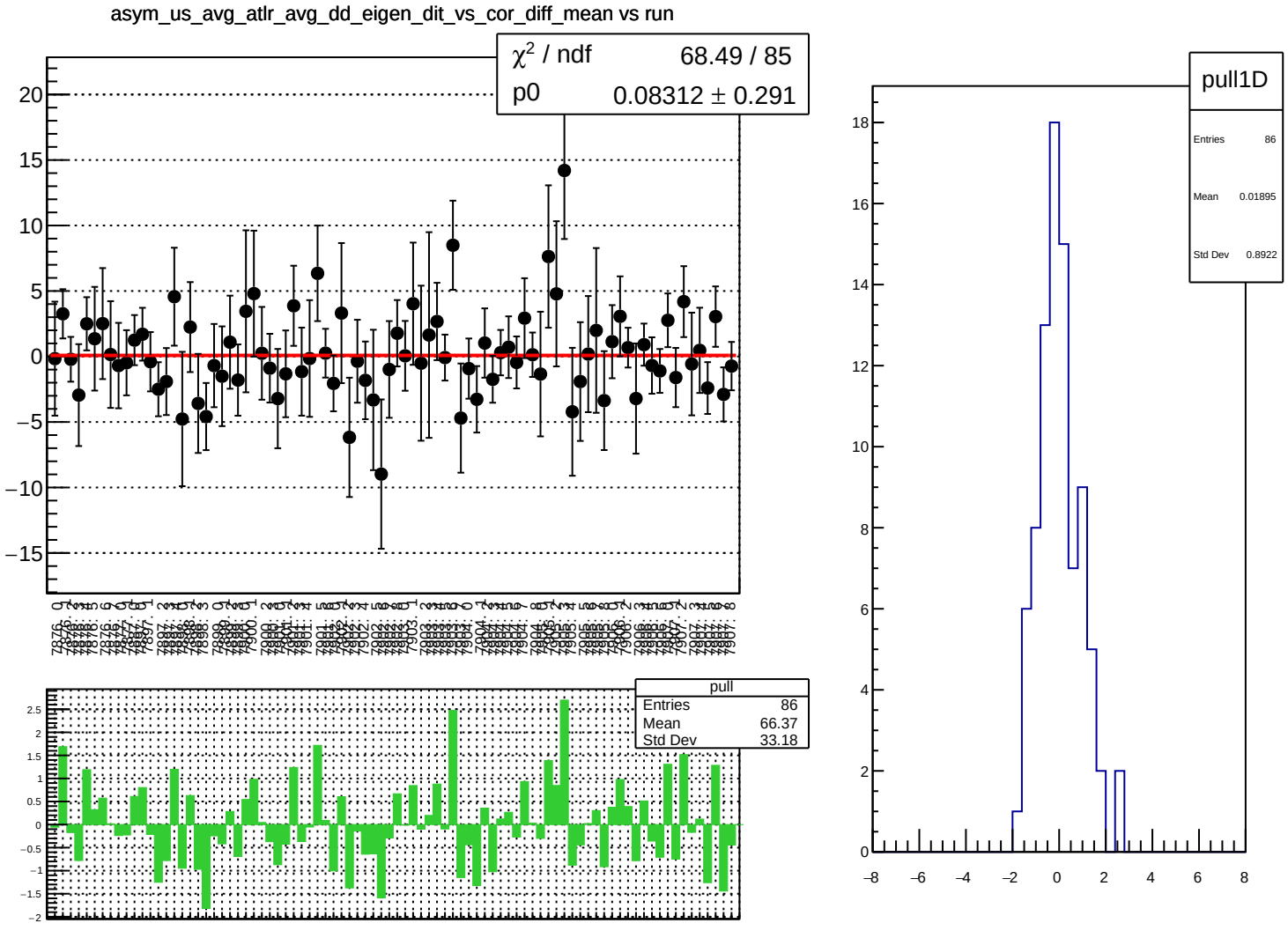

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.49 / 85
p0 0.08316 ± 0.291
pull
Entries 86
Mean 66.37
Std Dev 33.18
pull1D
Entries 86
Mean 0.01895
Std Dev 0.8922

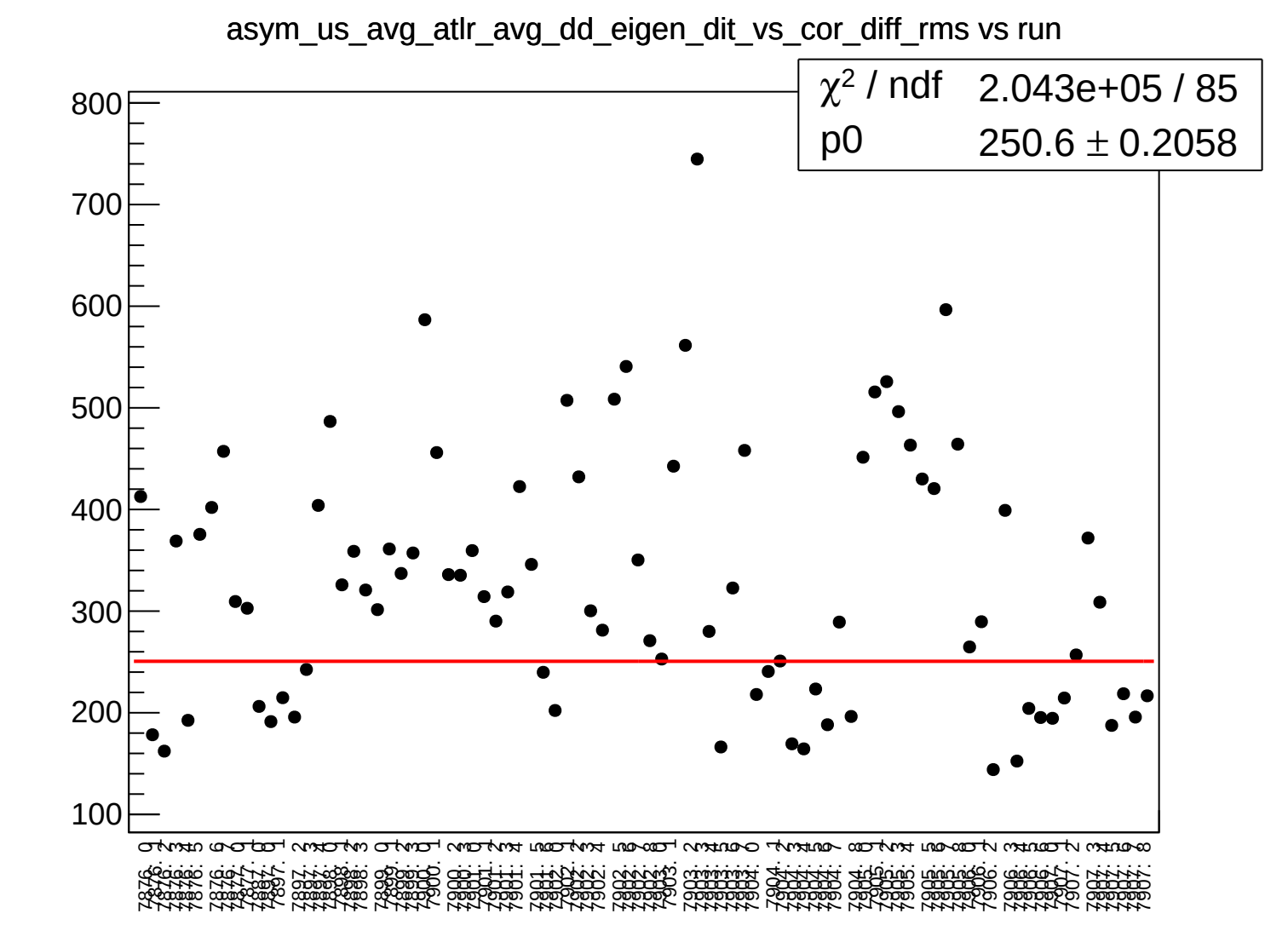

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.043e+05 / 85
p0 250.6 ± 0.2058
800
700
600
500
400
300
200
100

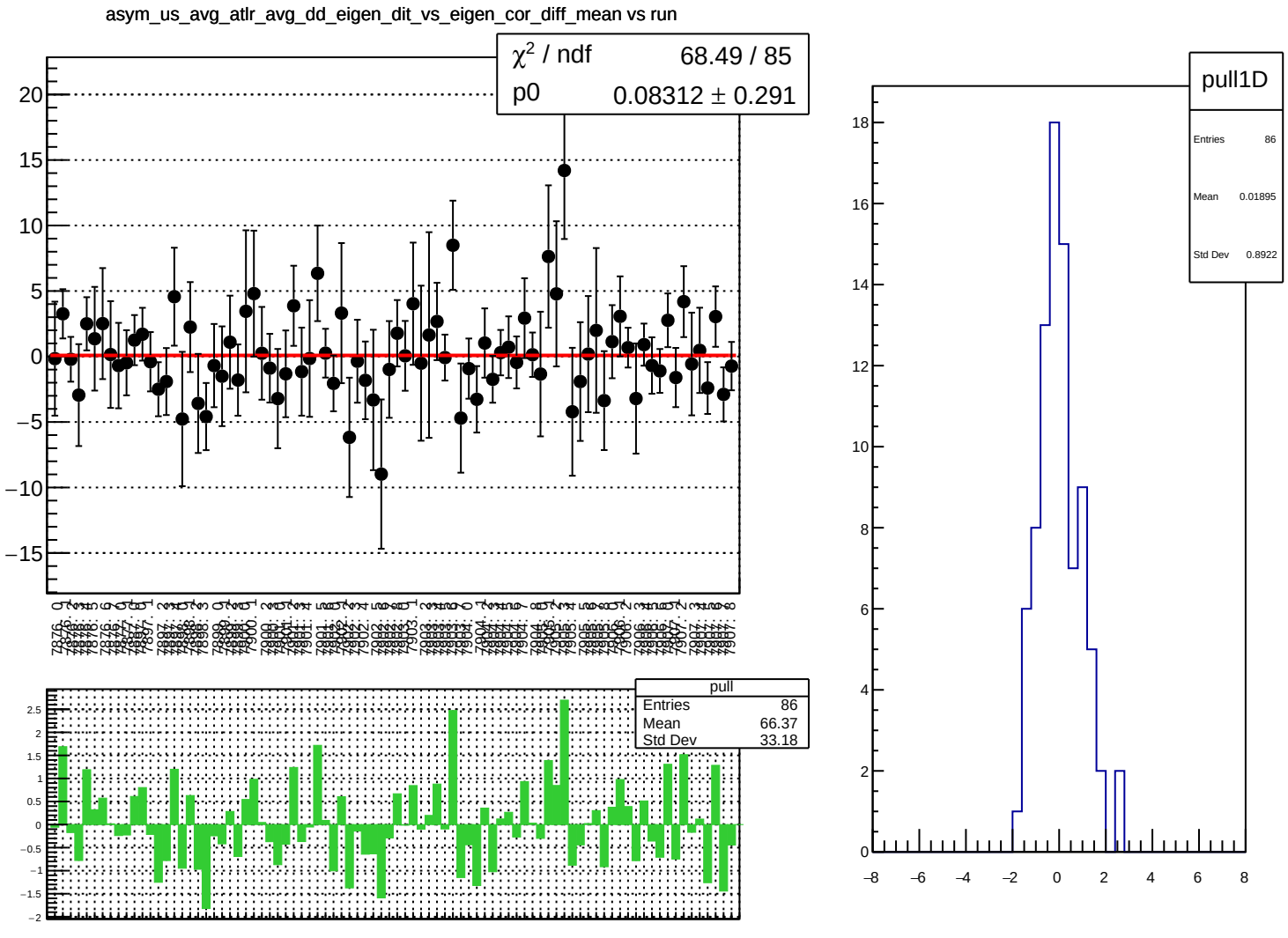

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.38 / 85
p0 −3.861e−06 ± 7.664e−06
pull
Entries 86
Mean 37.85
Std Dev 27.03

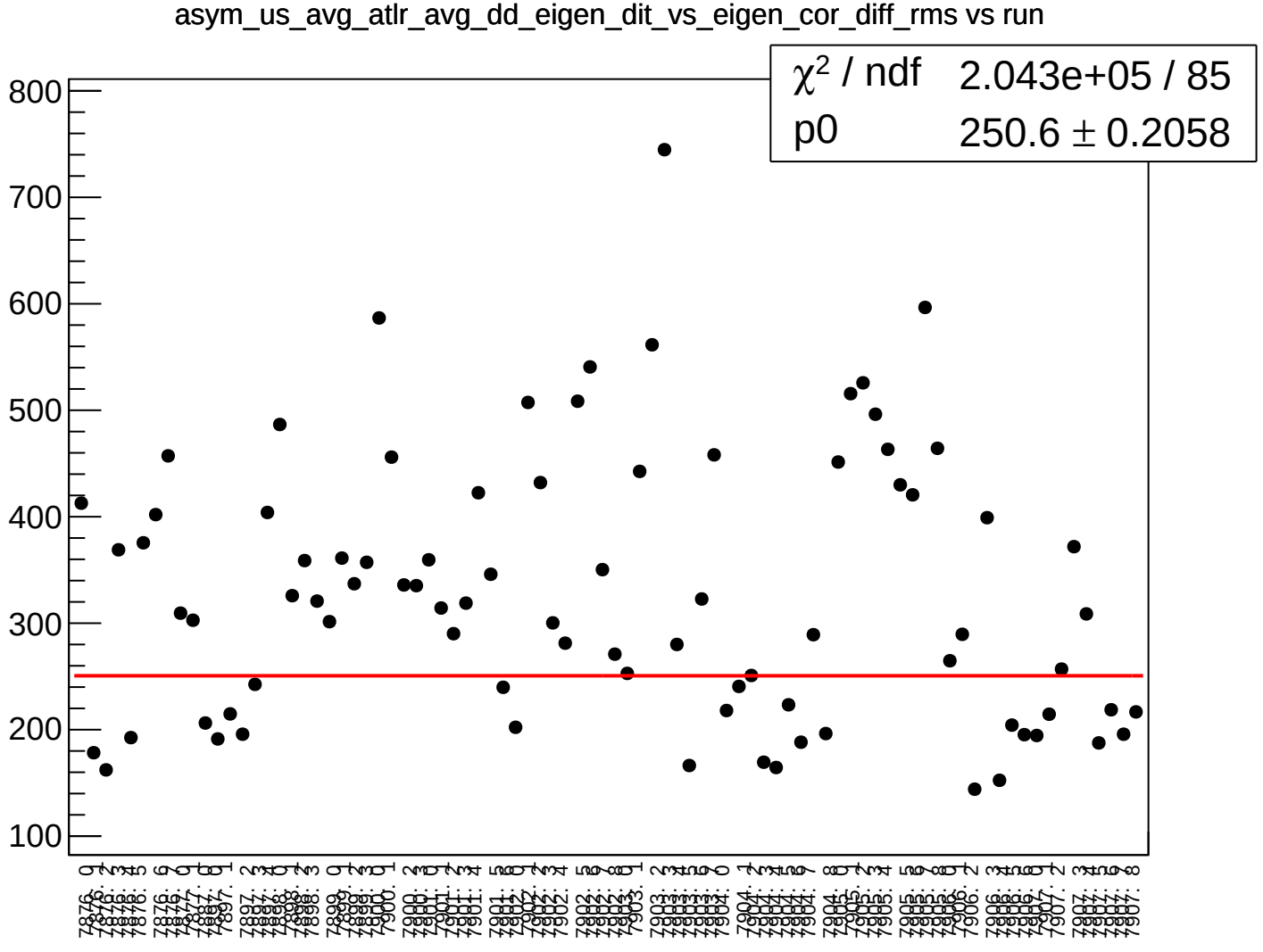

pull1D
Entries 86
Mean −0.06186
Std Dev 0.9404

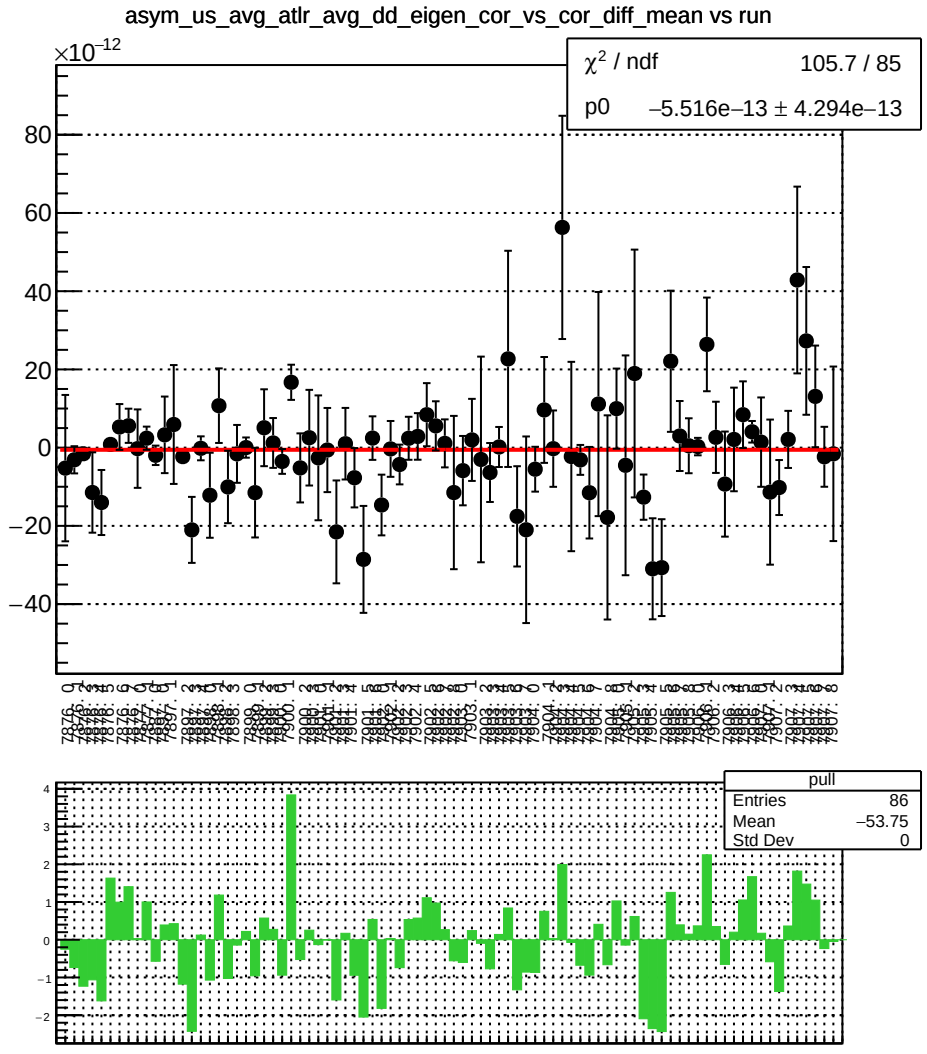

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.011e+05 / 85
p0 0.005904 ± 5.419e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

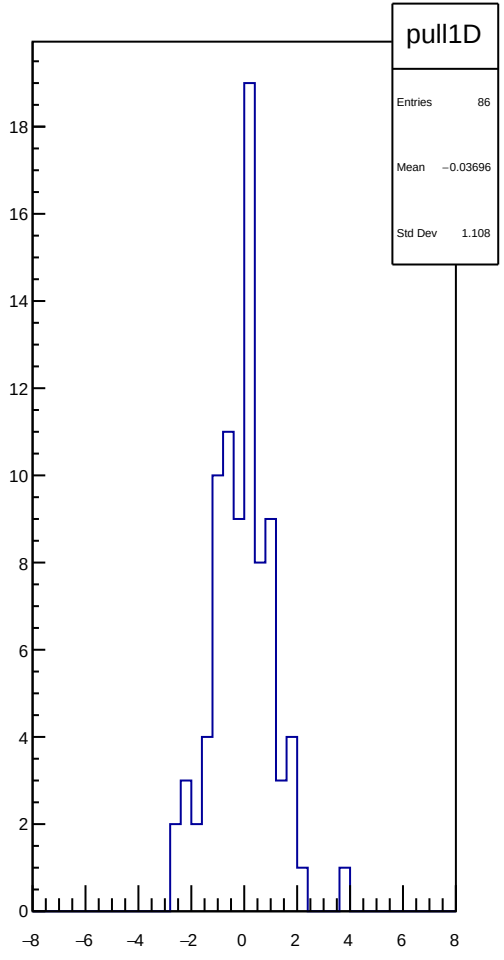

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.49 / 85
p0 0.08312 ± 0.291
pull
Entries 86
Mean 66.37
Std Dev 33.18
pull1D
Entries 86
Mean 0.01895
Std Dev 0.8922

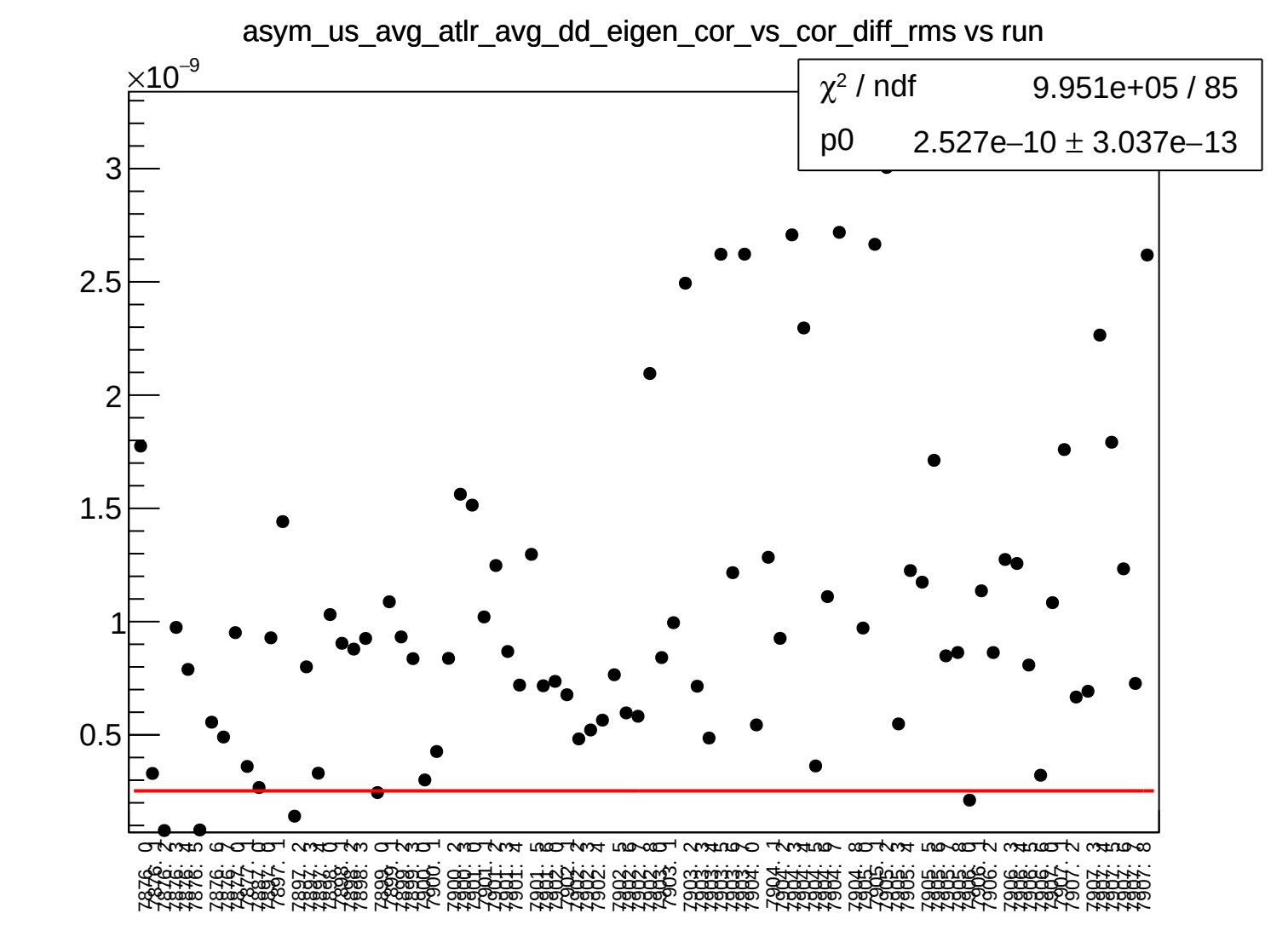

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.043e+05 / 85
p0 250.6 ± 0.2058
800
700
600
500
400
300
200
100

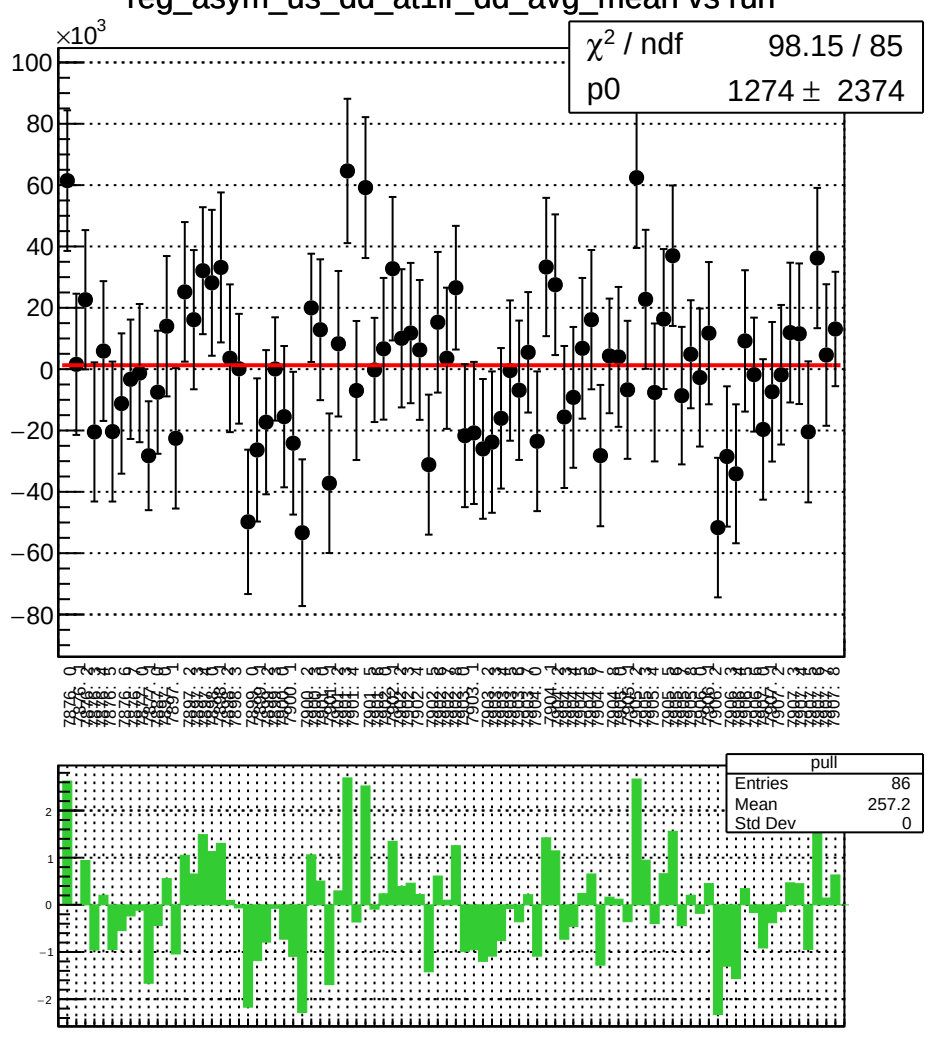

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.49 / 85
p0 0.08312 ± 0.291
pull
Entries 86
Mean 66.37
Std Dev 33.18
pull1D
Entries 86
Mean 0.01895
Std Dev 0.8922

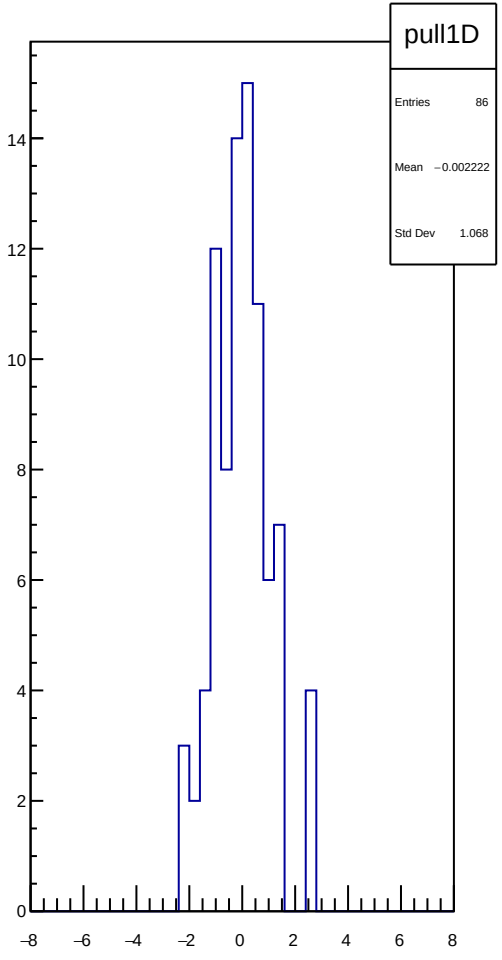

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.043e+05 / 85
p0 250.6 ± 0.2058
800
700
600
500
400
300
200
100

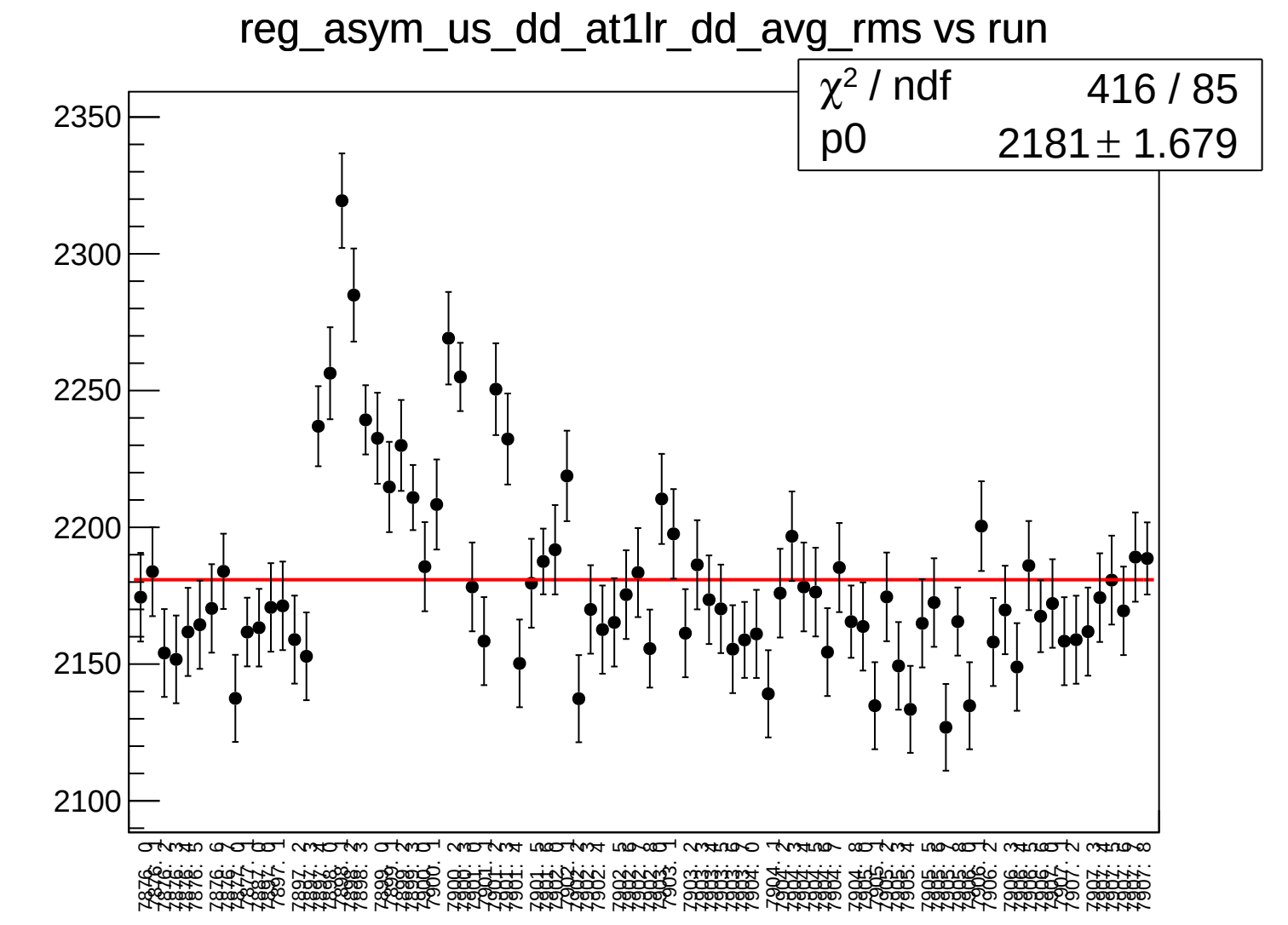

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.7 / 85
p0 −5.516e−13 ± 4.294e−13
80
60
40
20
0
−20
−40
pull
Entries 86
Mean −53.75
Std Dev 0
4
3
2
1
0
−1
−2

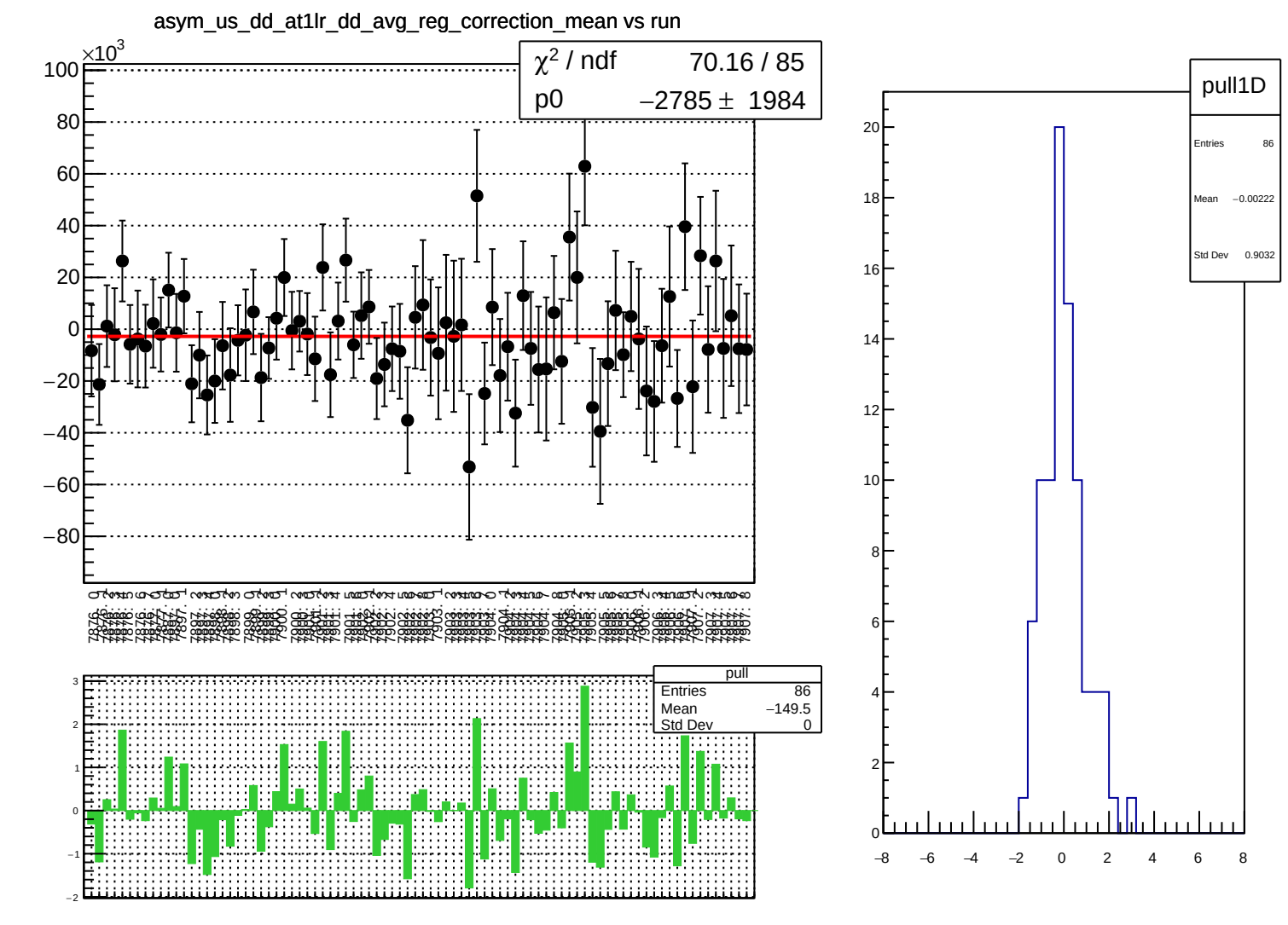

pull1D
Entries 86
Mean −0.03696
Std Dev 1.108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

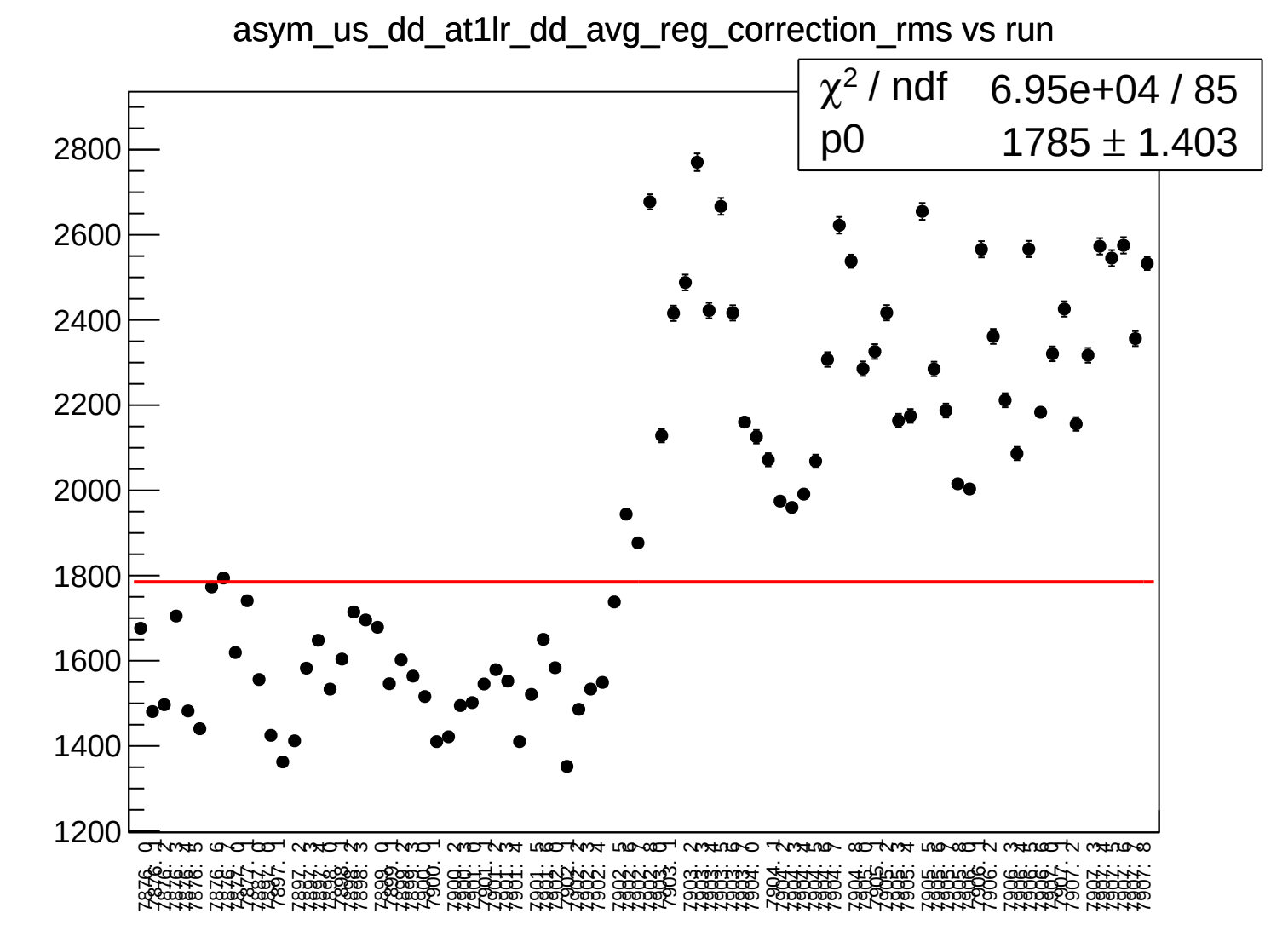

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.951e+05 / 85
p0 2.527e−10 ± 3.037e−13
3
2.5
2
1.5
1
0.5

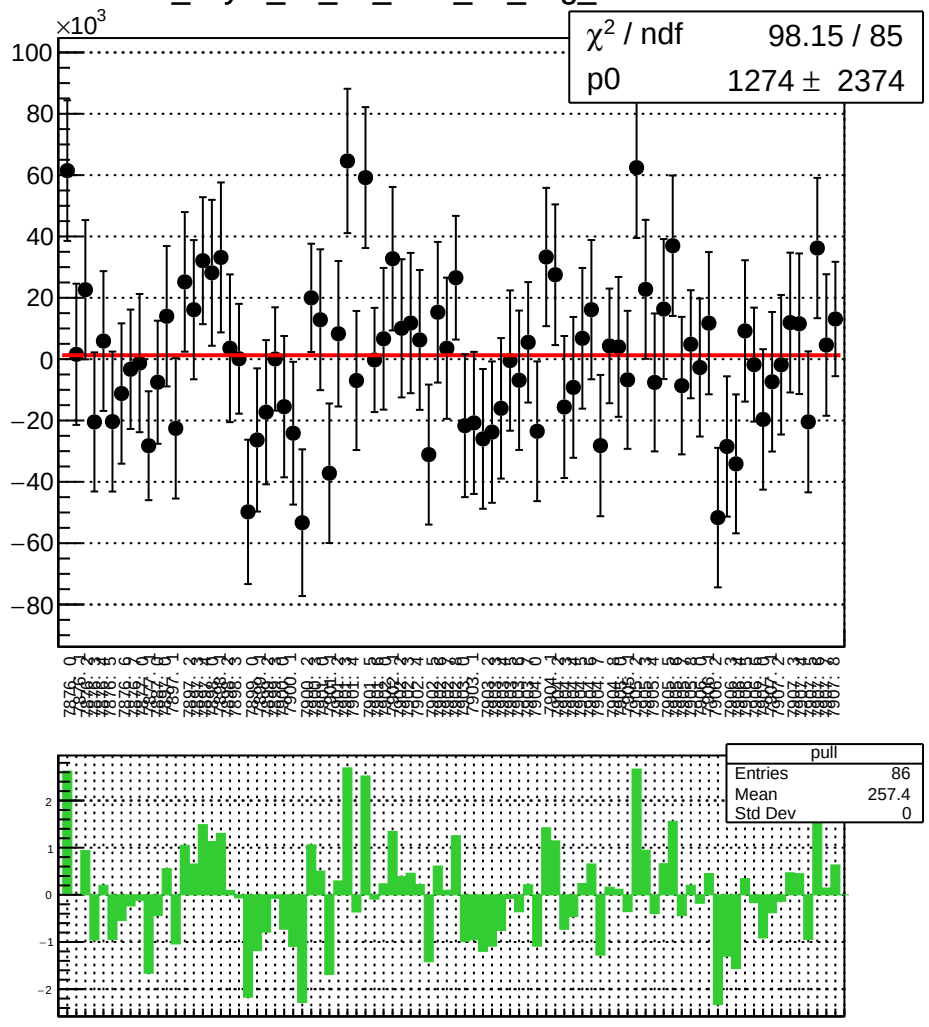

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 98.15 / 85
p0 1274 ± 2374
pull
Entries 86
Mean 257.2
Std Dev 0

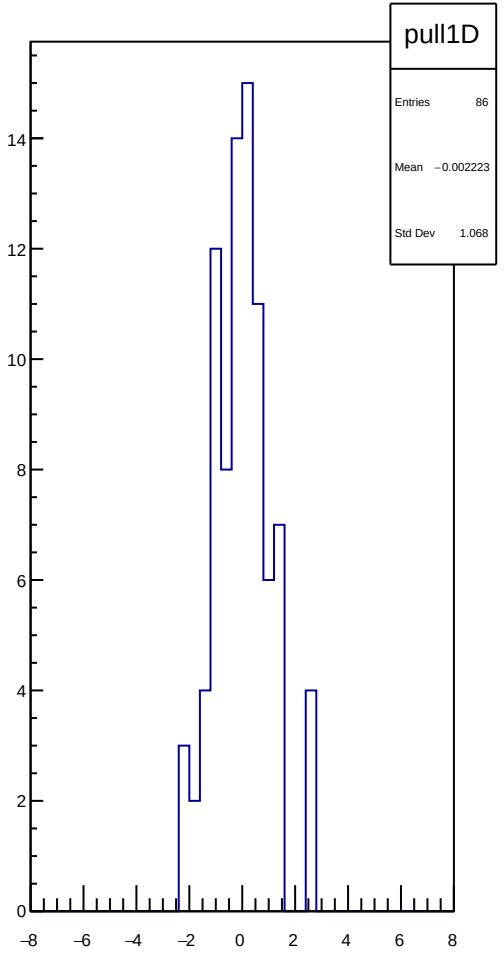

pull1D
Entries 86
Mean −0.002222
Std Dev 1.068

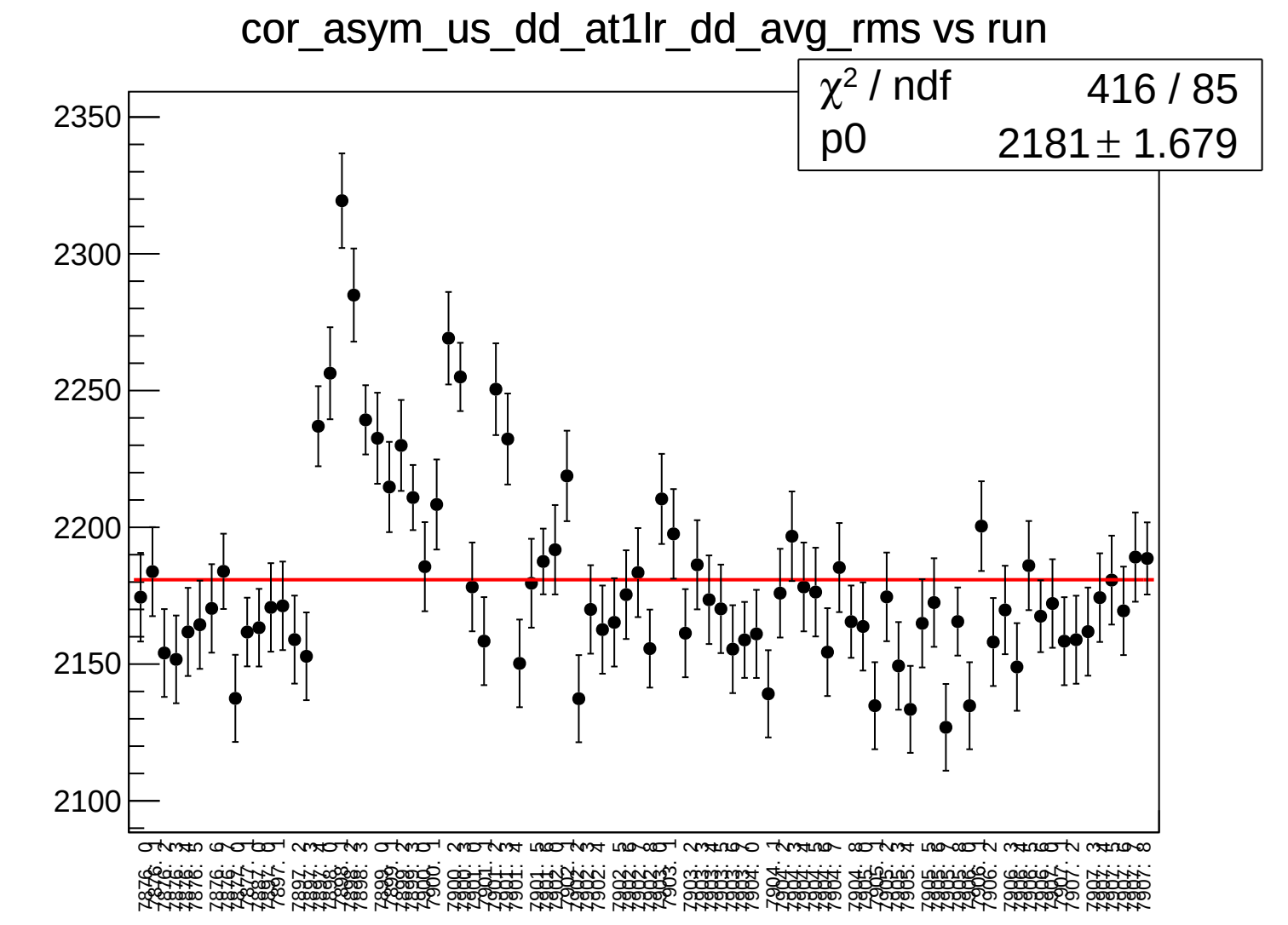

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 416 / 85
p0 2181 ± 1.679
2350
2300
2250
2200
2150
2100

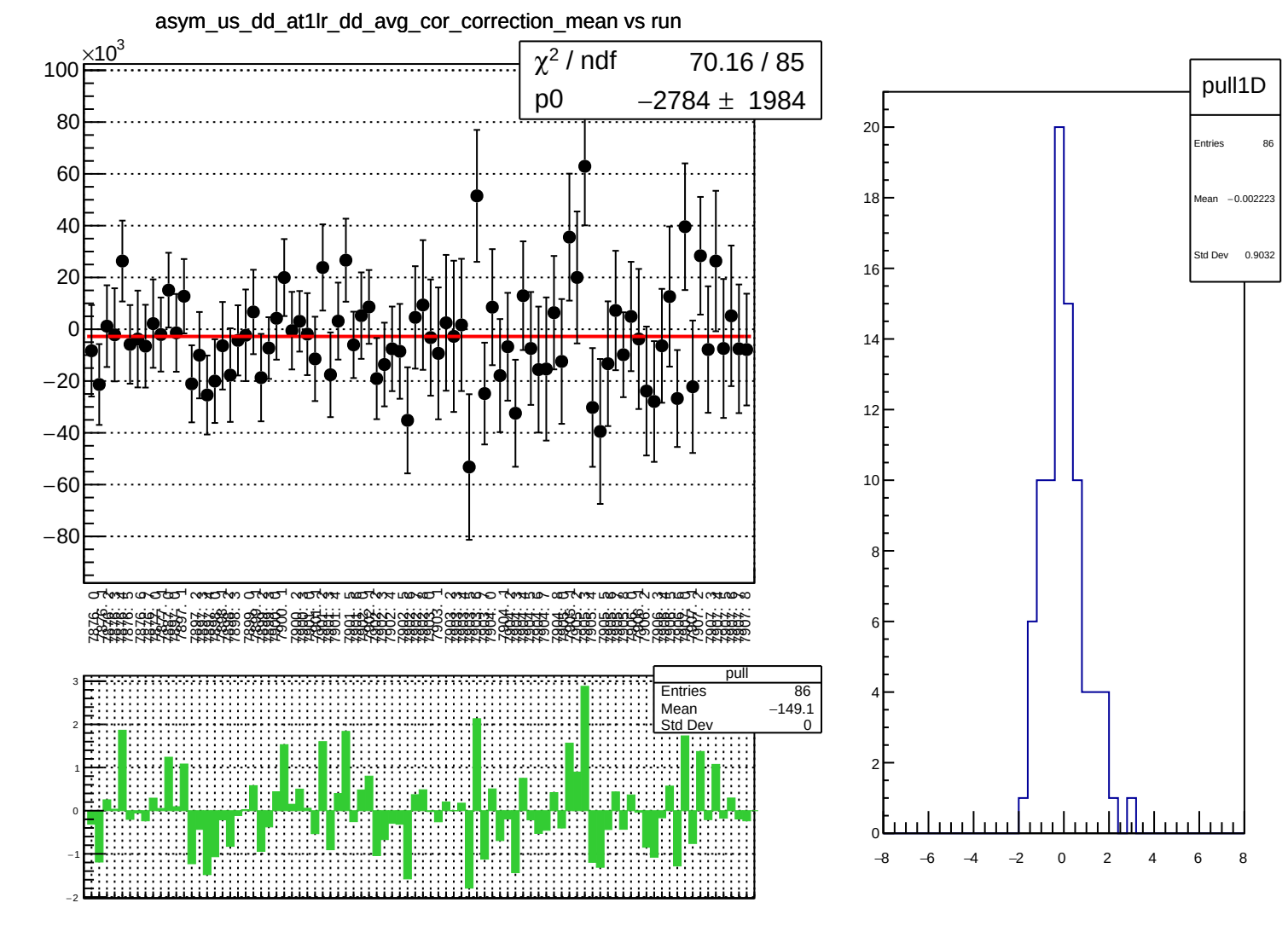

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 70.16 / 85
p0 −2785 ± 1984
pull
Entries 86
Mean −149.5
Std Dev 0
pull1D
Entries 86
Mean −0.00222
Std Dev 0.9032

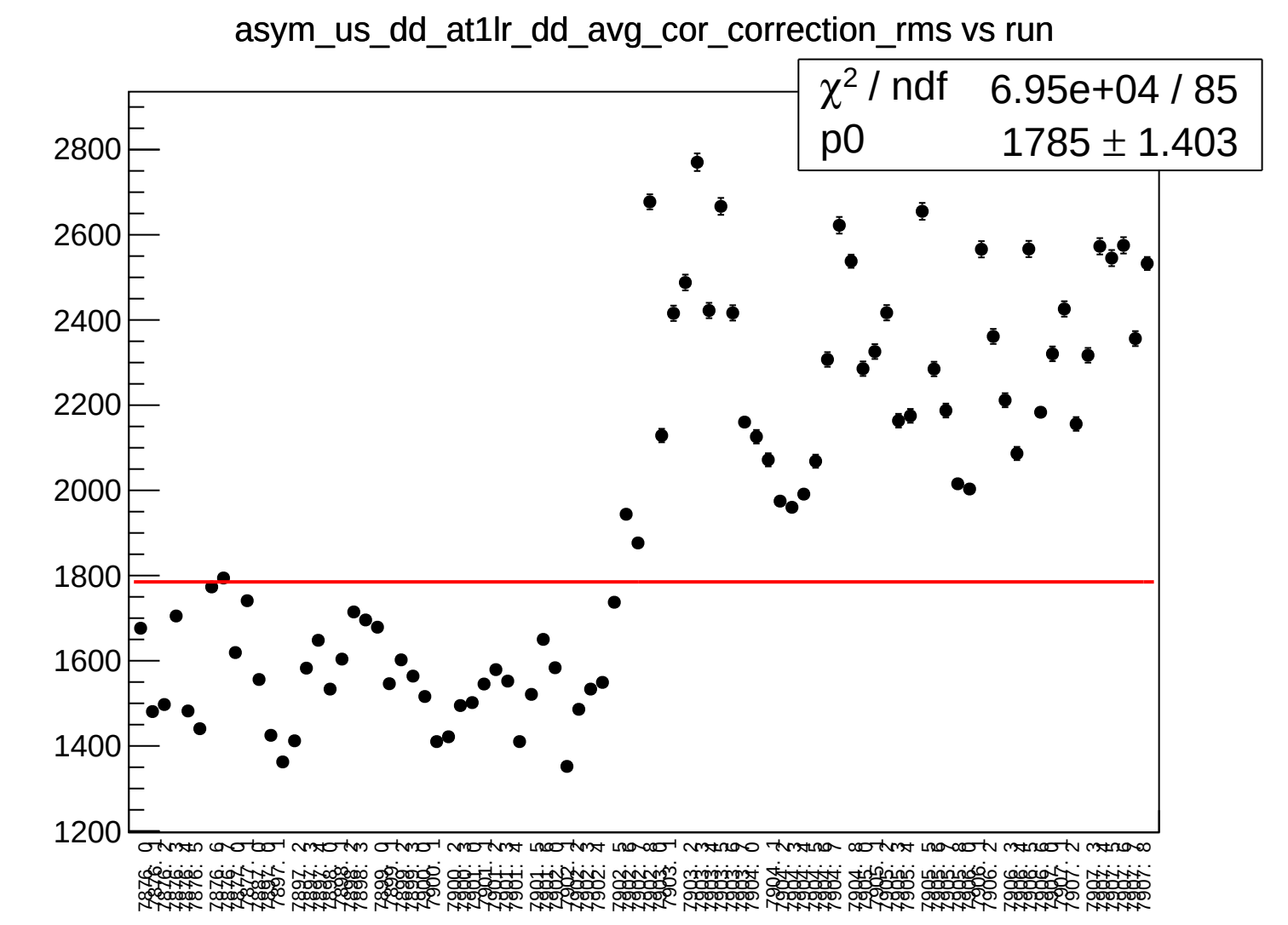

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 6.95e+04 / 85
p0 1785 ± 1.403
2800
2600
2400
2200
2000
1800
1600
1400
1200

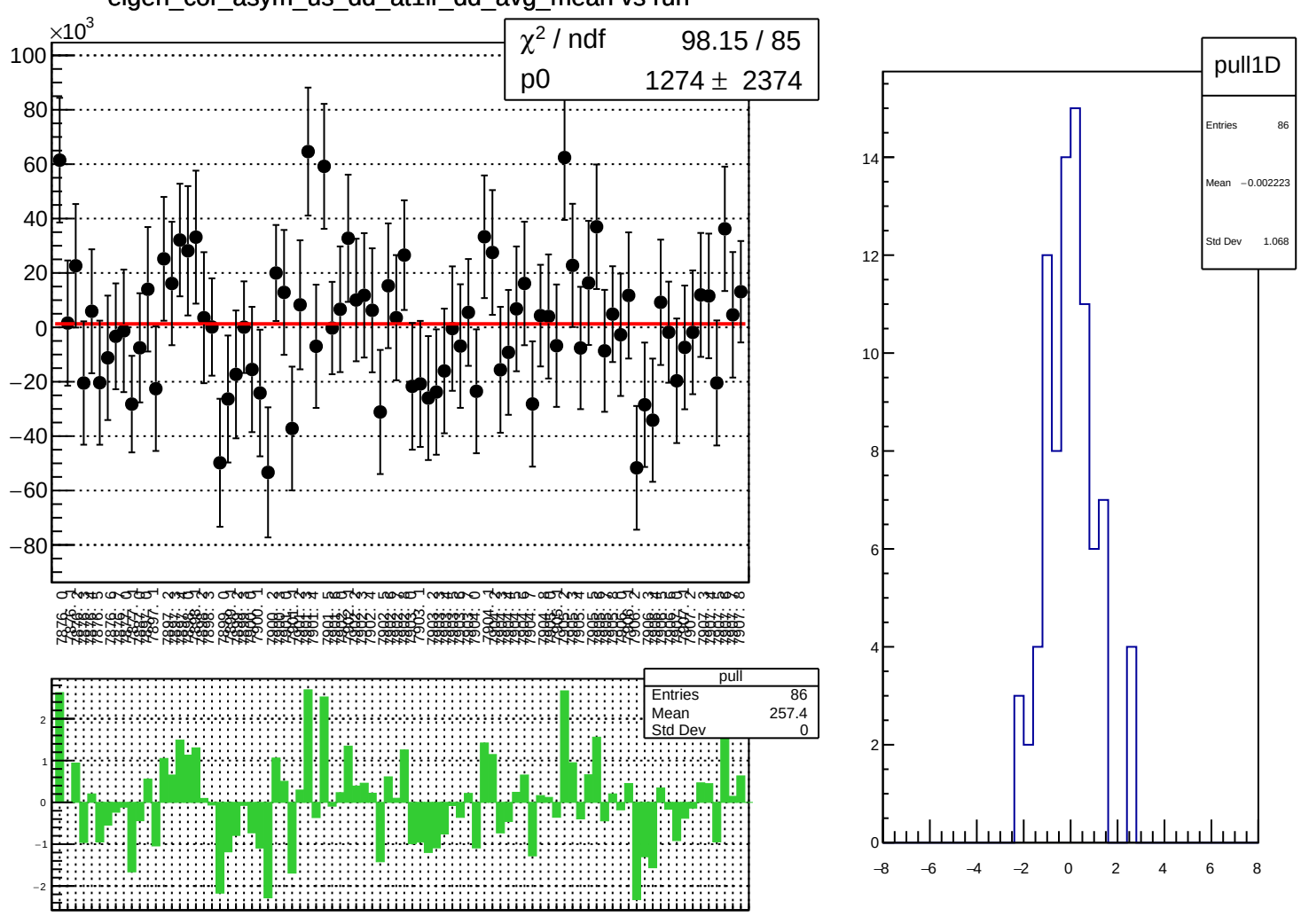

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 98.15 / 85
p0 1274 ± 2374
pull
Entries 86
Mean 257.4
Std Dev 0

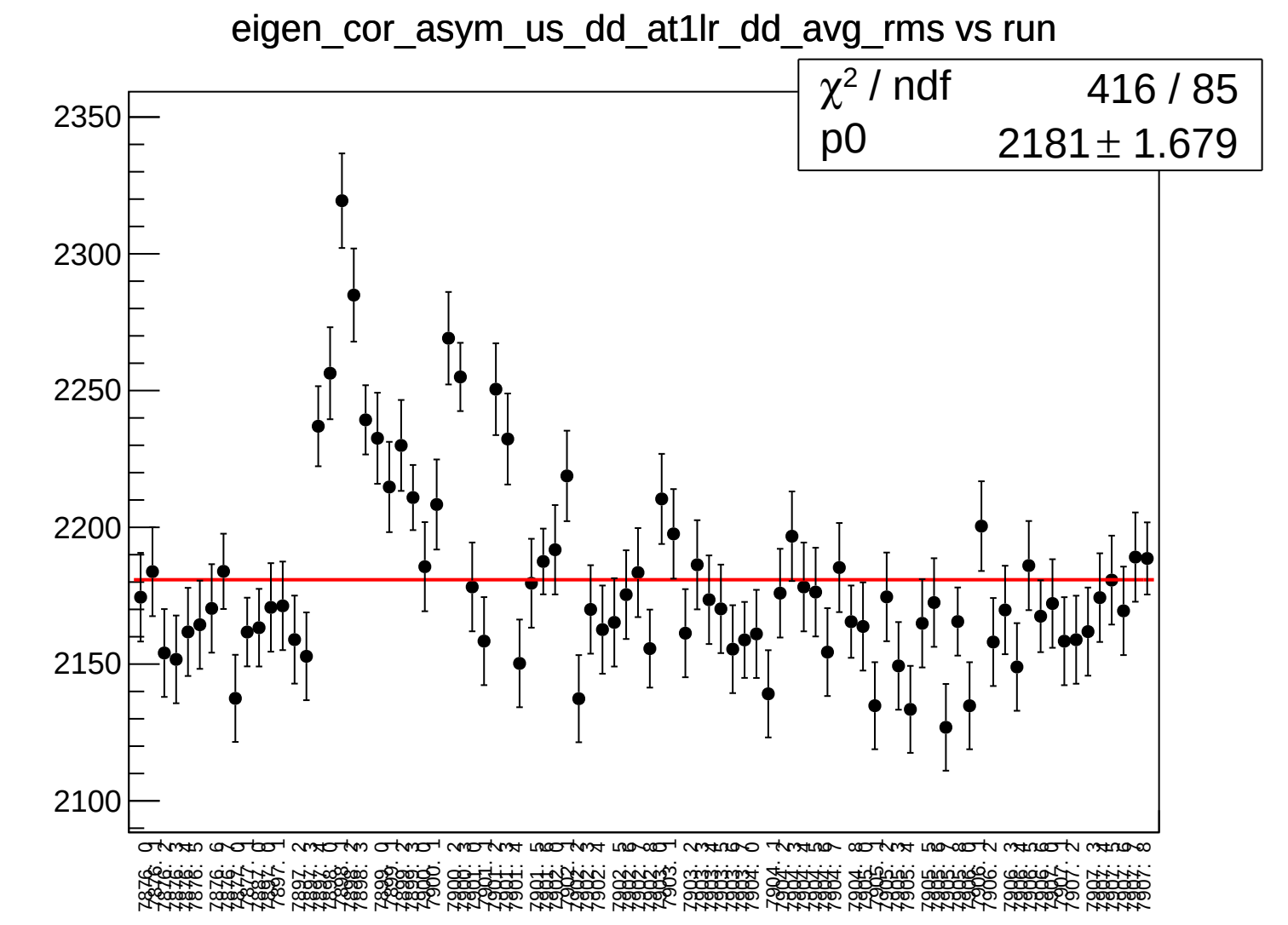

pull1D
Entries 86
Mean −0.002223
Std Dev 1.068

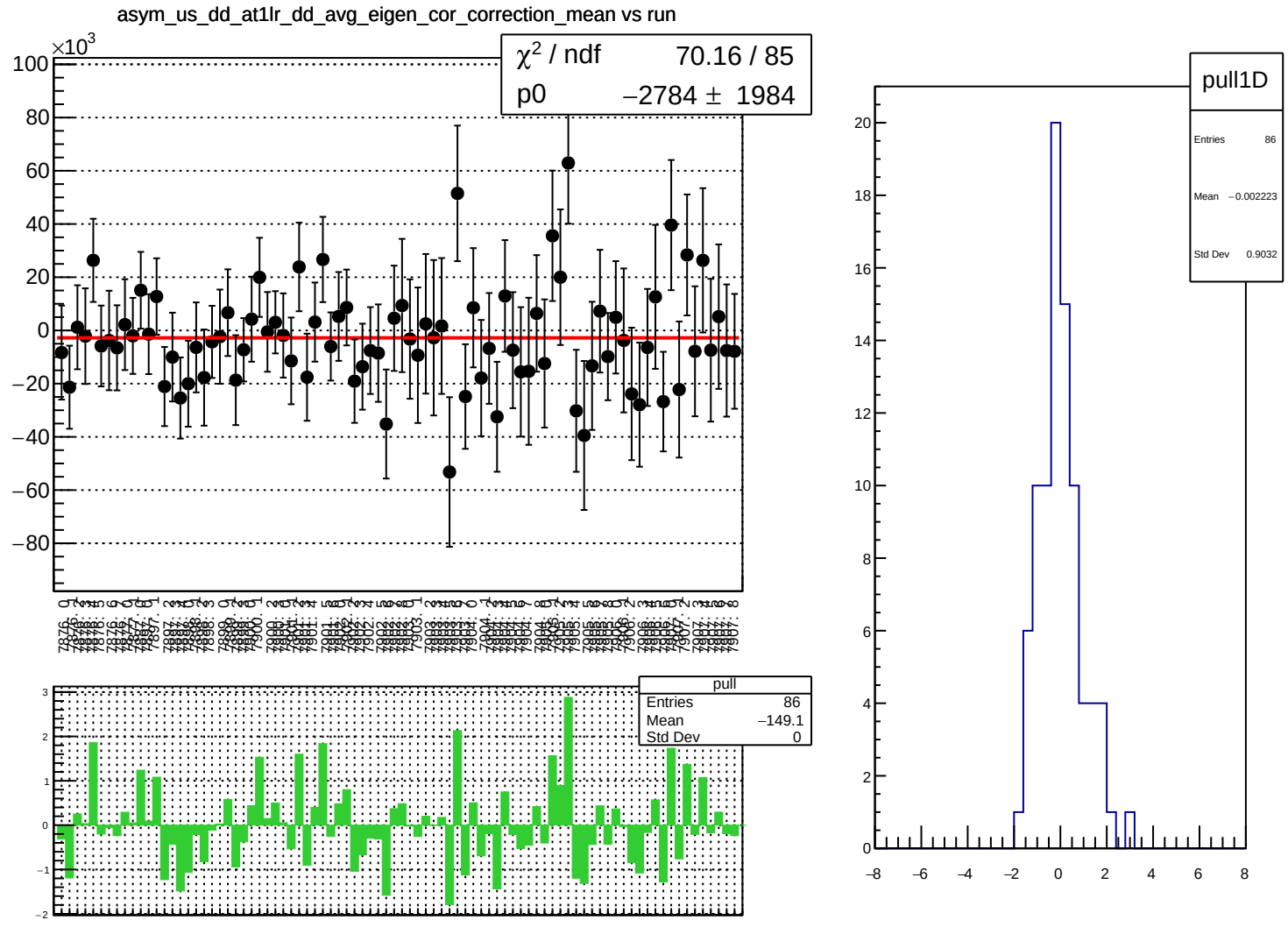

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 416 / 85
p0 2181 ± 1.679
2350
2300
2250
2200
2150
2100

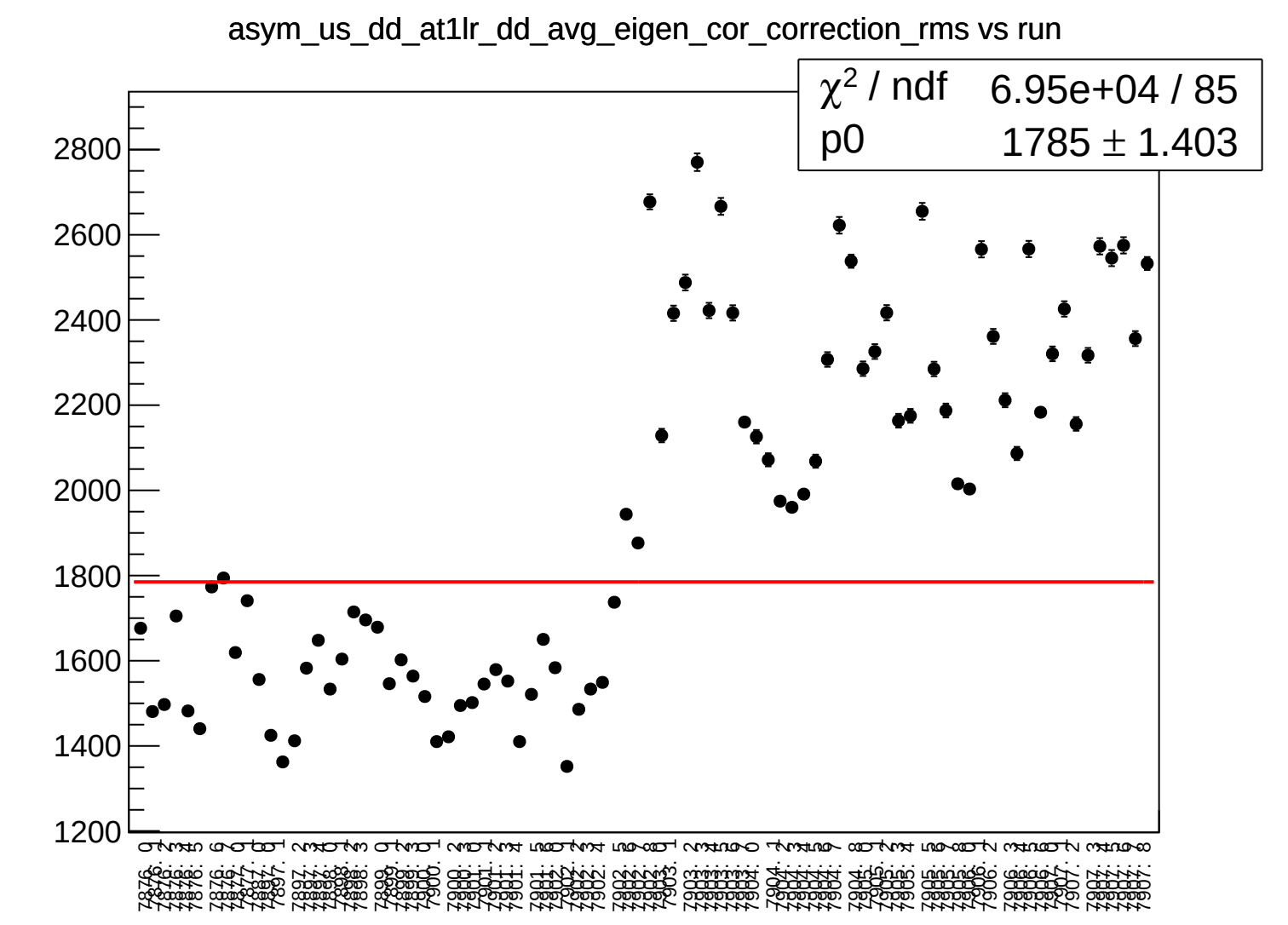

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 70.16 / 85
p0 −2784 ± 1984
×10³
pull
Entries 86
Mean −149.1
Std Dev 0
pull1D
Entries 86
Mean −0.002223
Std Dev 0.9032

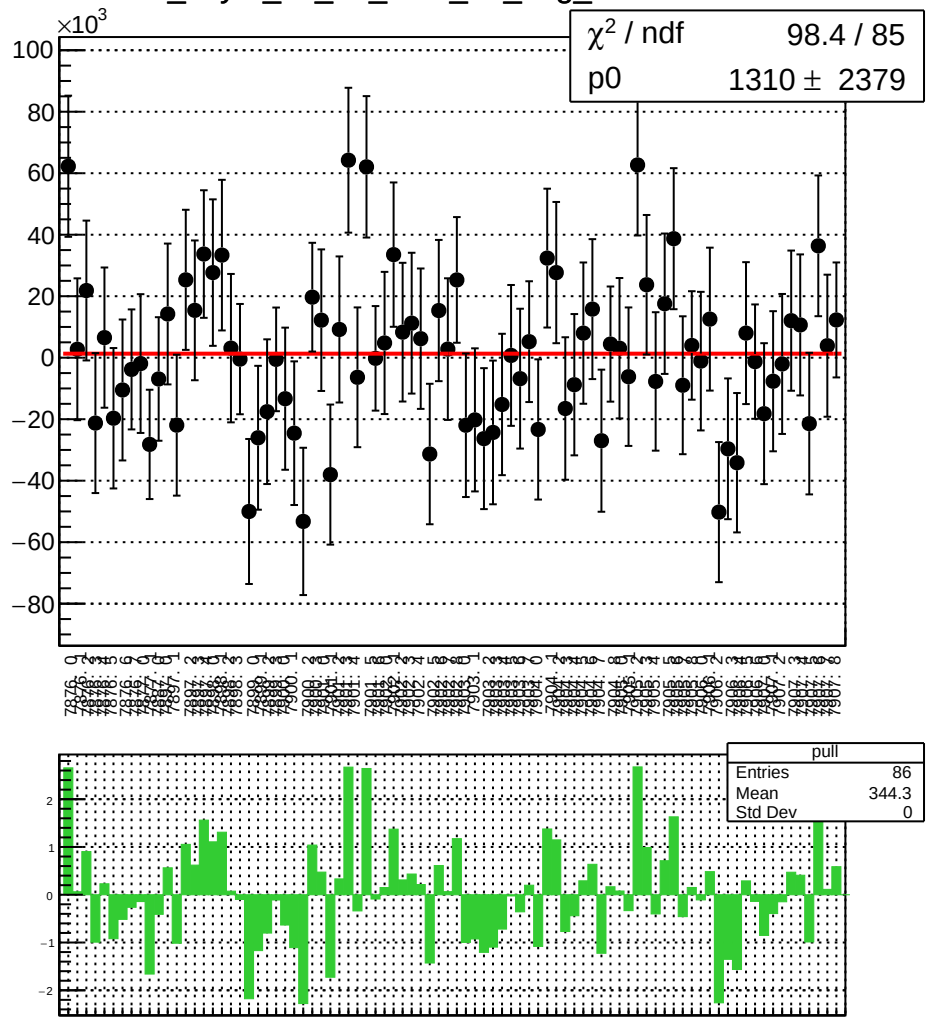

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 6.95e+04 / 85
p0 1785 ± 1.403
2800
2600
2400
2200
2000
1800
1600
1400
1200

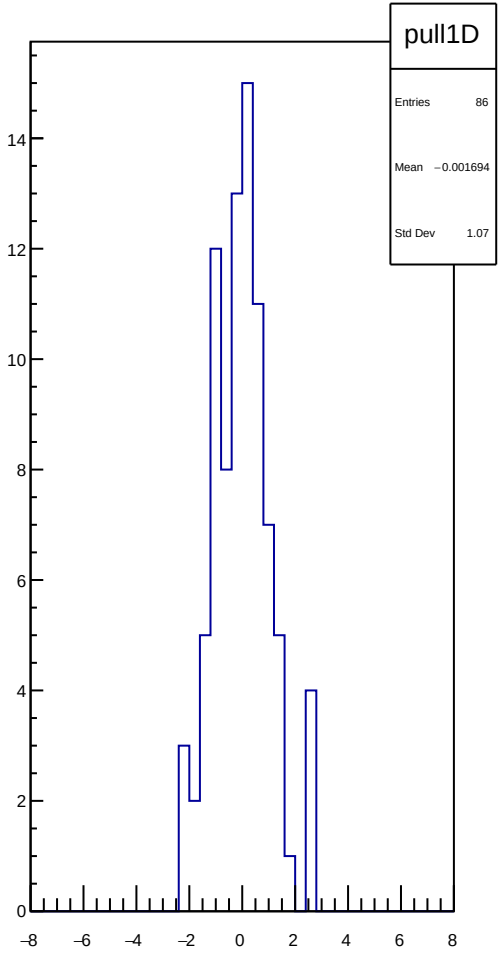

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 98.15 / 85
p0 1274 ± 2374
pull
Entries 86
Mean 257.4
Std Dev 0
pull1D
Entries 86
Mean −0.002223
Std Dev 1.068

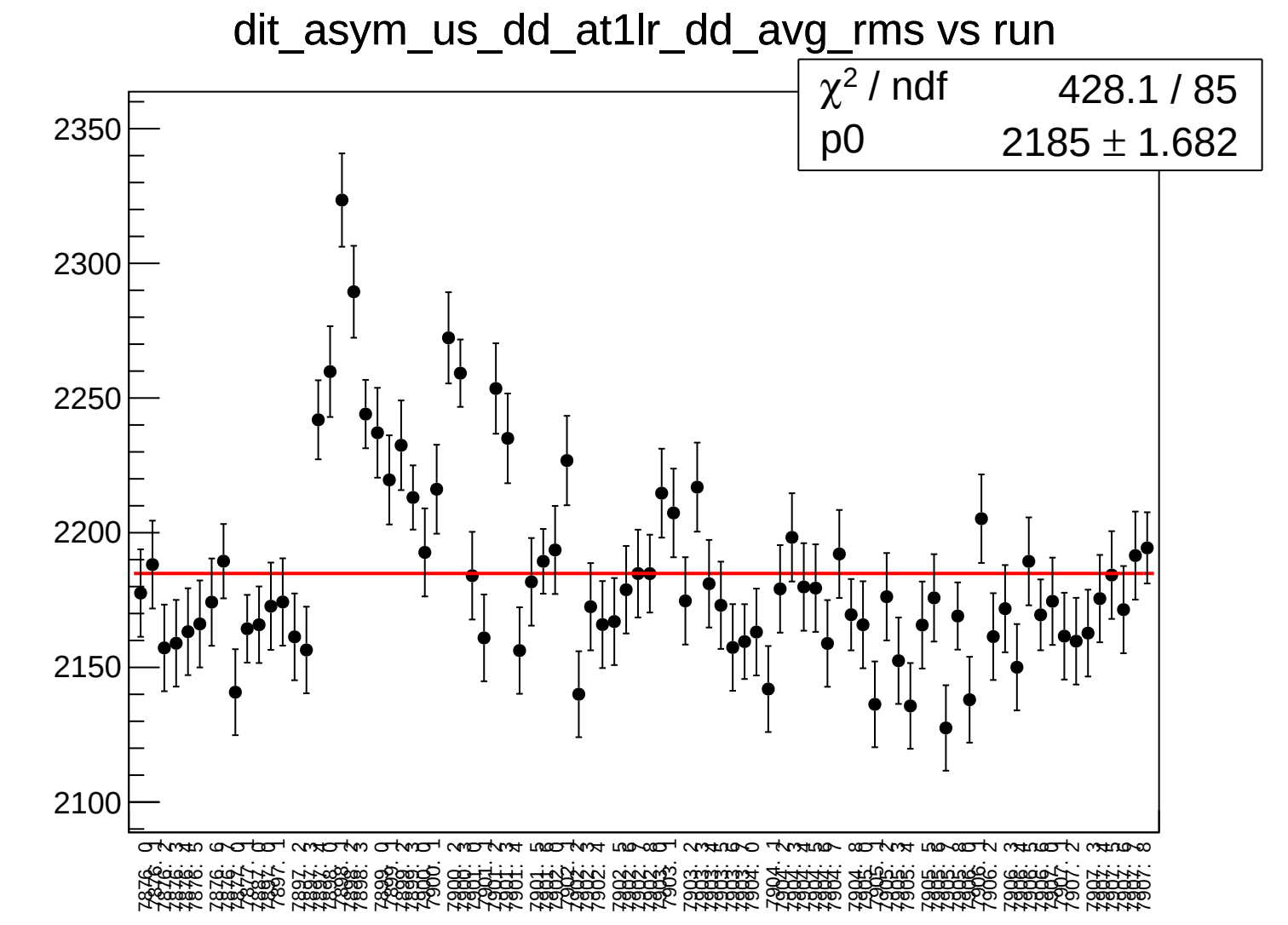

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 416 / 85
p0 2181 ± 1.679
2350
2300
2250
2200
2150
2100

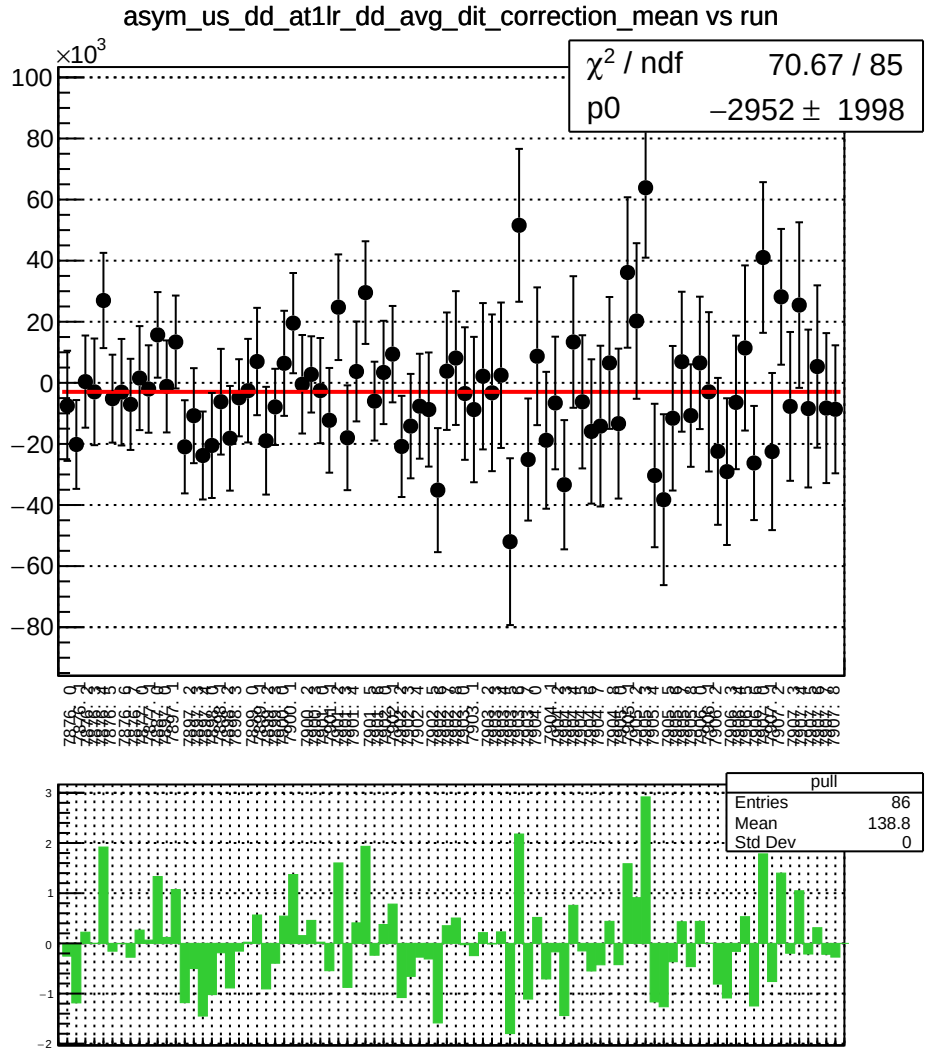

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.16 / 85
p0 −2784 ± 1984
pull
Entries 86
Mean −149.1
Std Dev 0
pull1D
Entries 86
Mean −0.002223
Std Dev 0.9032

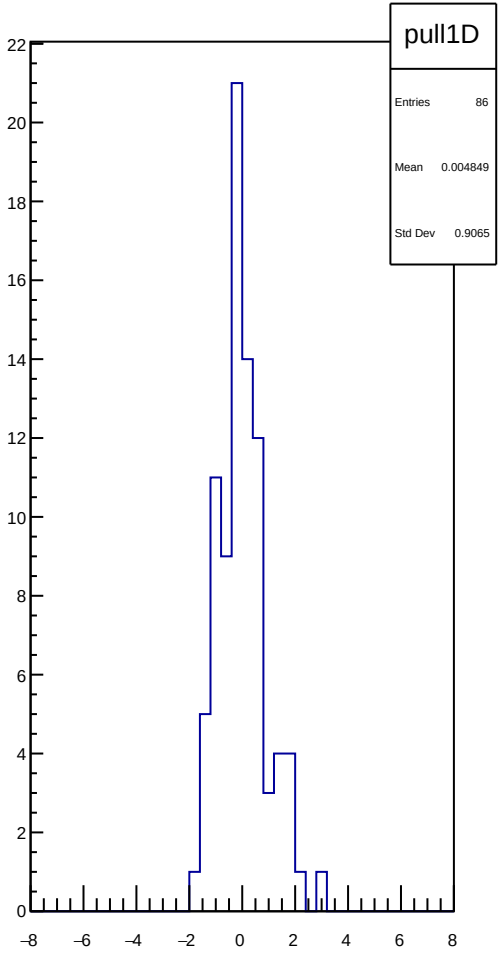

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.95e+04 / 85
p0 1785 ± 1.403
2800
2600
2400
2200
2000
1800
1600
1400
1200

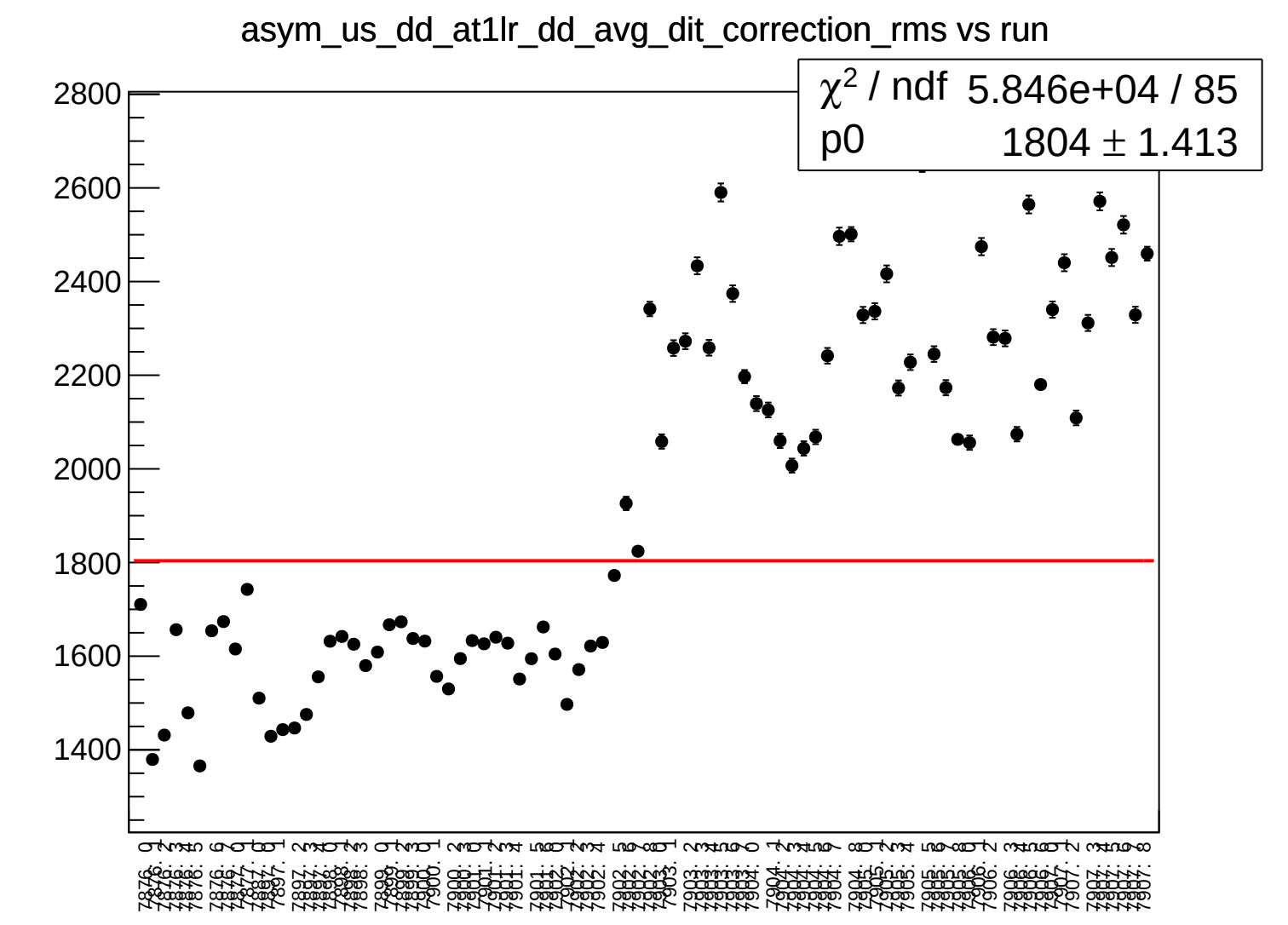

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 98.4 / 85
p0 1310 ± 2379
pull
Entries 86
Mean 344.3
Std Dev 0

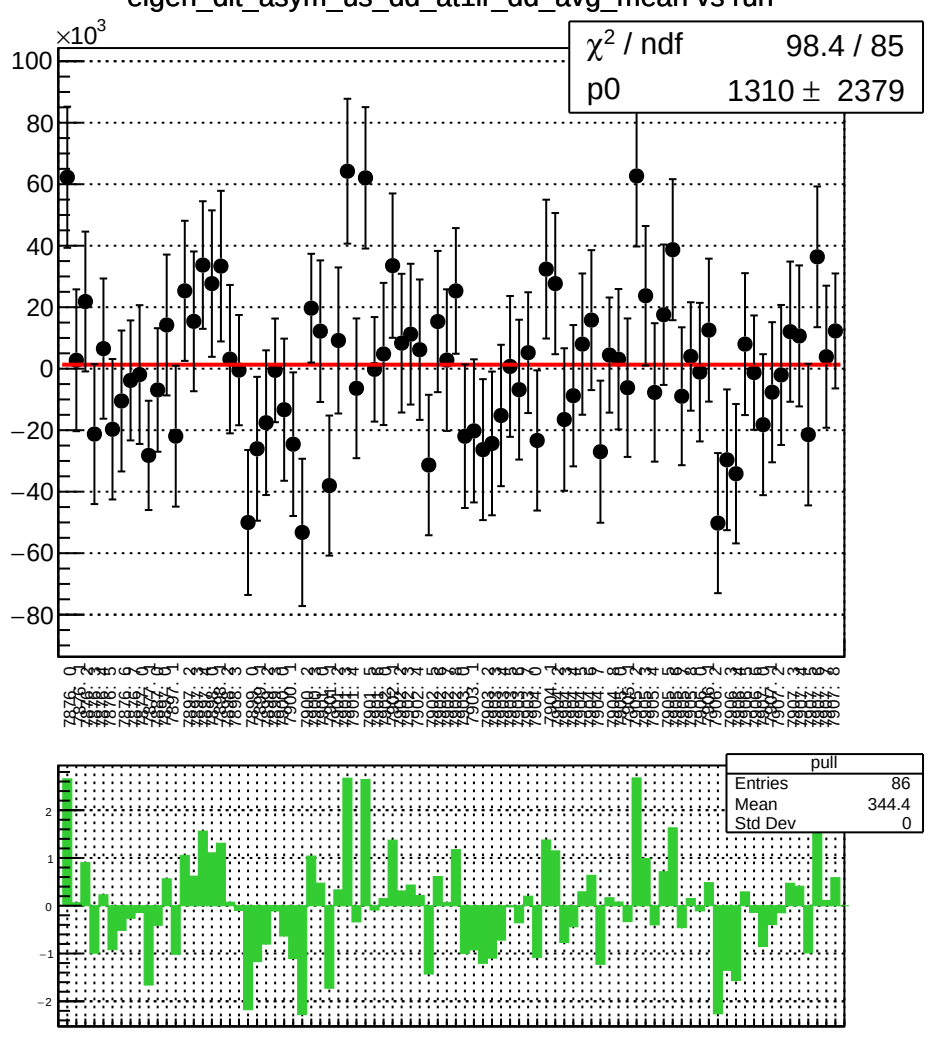

pull1D
Entries 86
Mean −0.001694
Std Dev 1.07

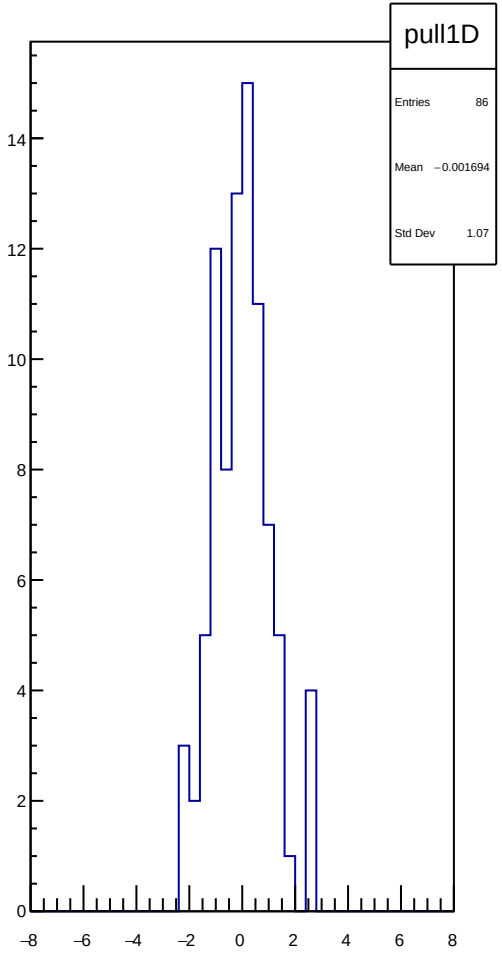

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 428.1 / 85
p0 2185 ± 1.682
2350
2300
2250
2200
2150
2100

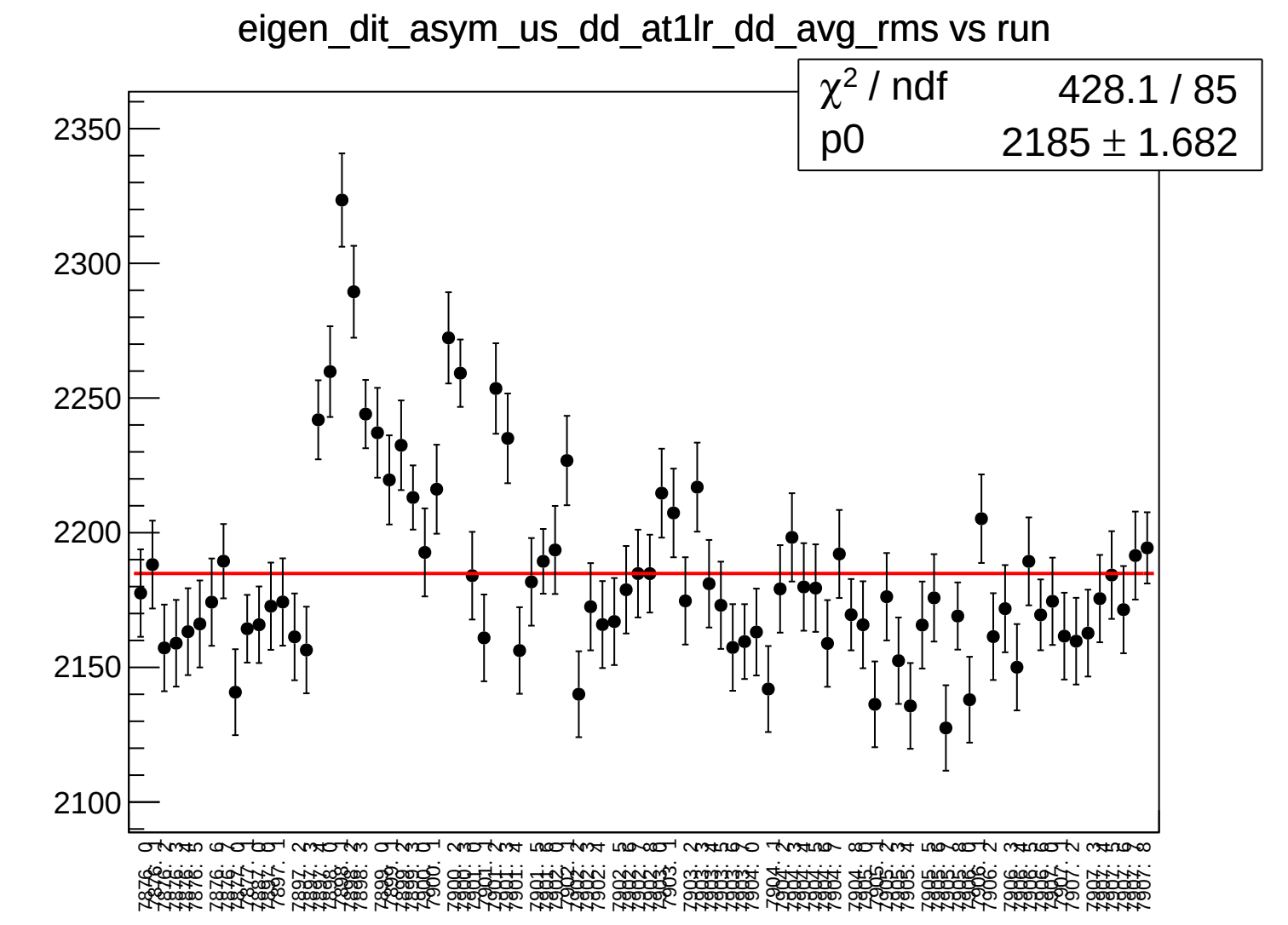

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 70.67 / 85
p0 −2952 ± 1998
pull
Entries 86
Mean 138.8
Std Dev 0

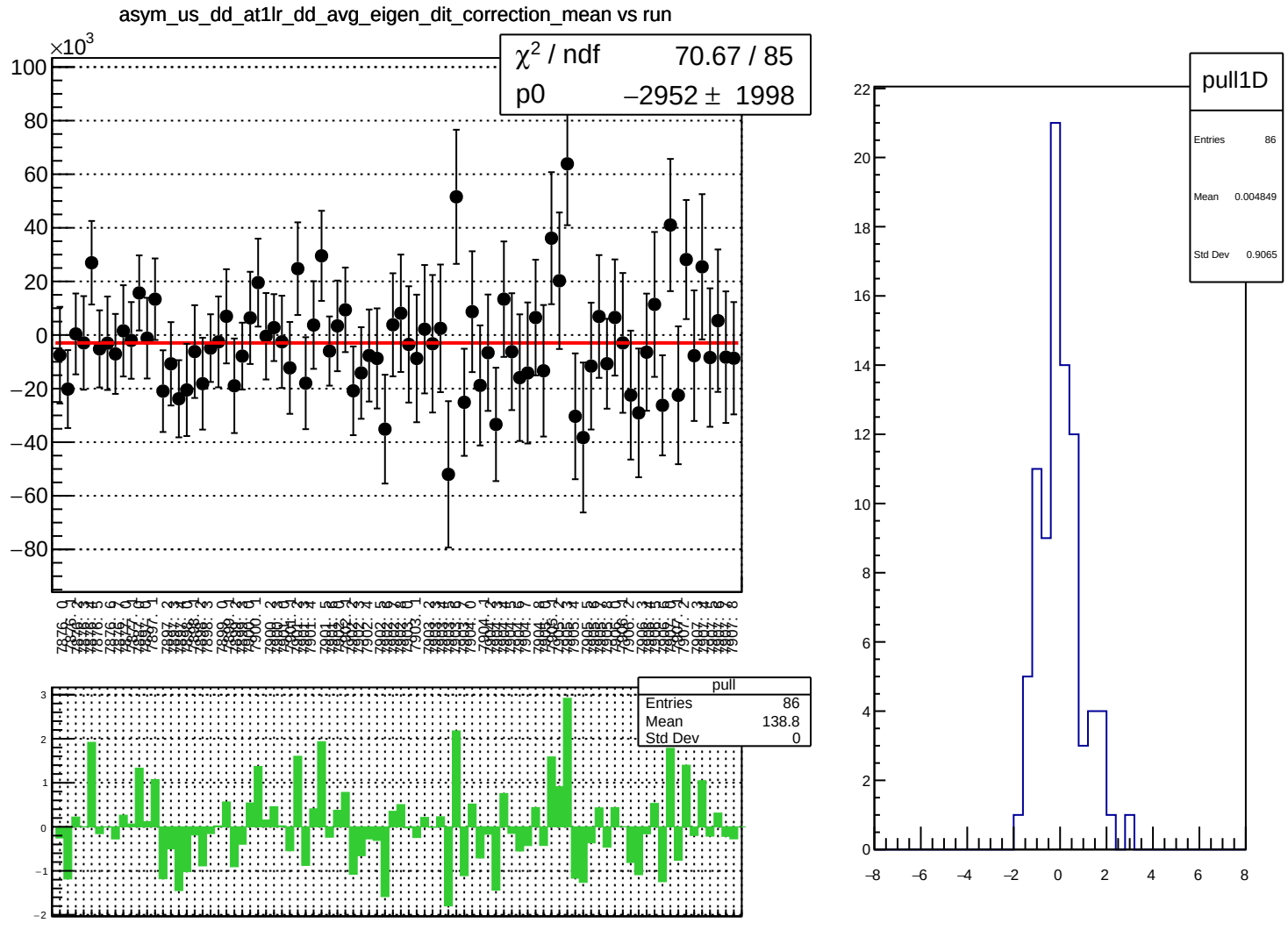

pull1D
Entries 86
Mean 0.004849
Std Dev 0.9065

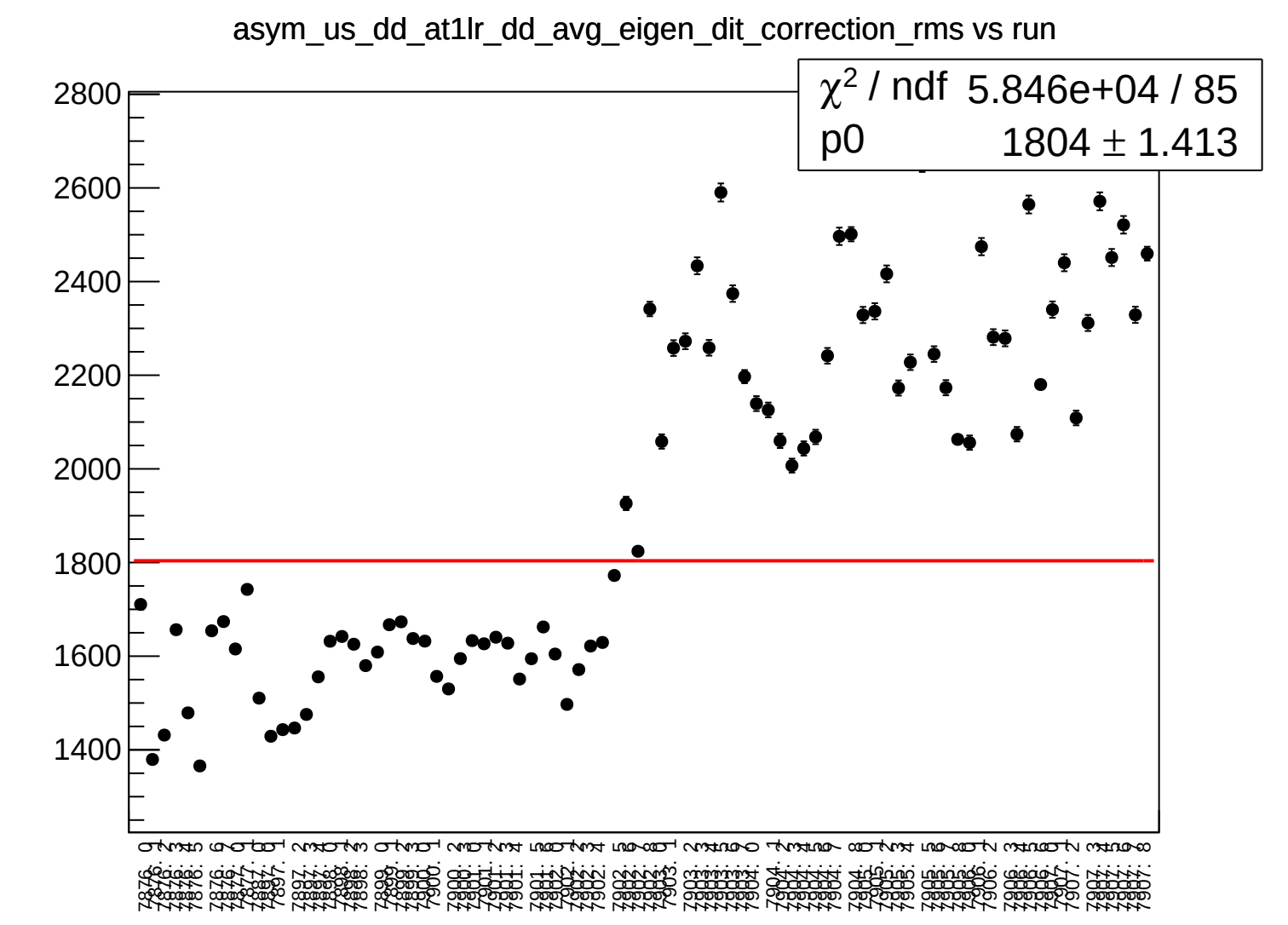

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5.846e+04 / 85
p0 1804 ± 1.413
2800
2600
2400
2200
2000
1800
1600
1400

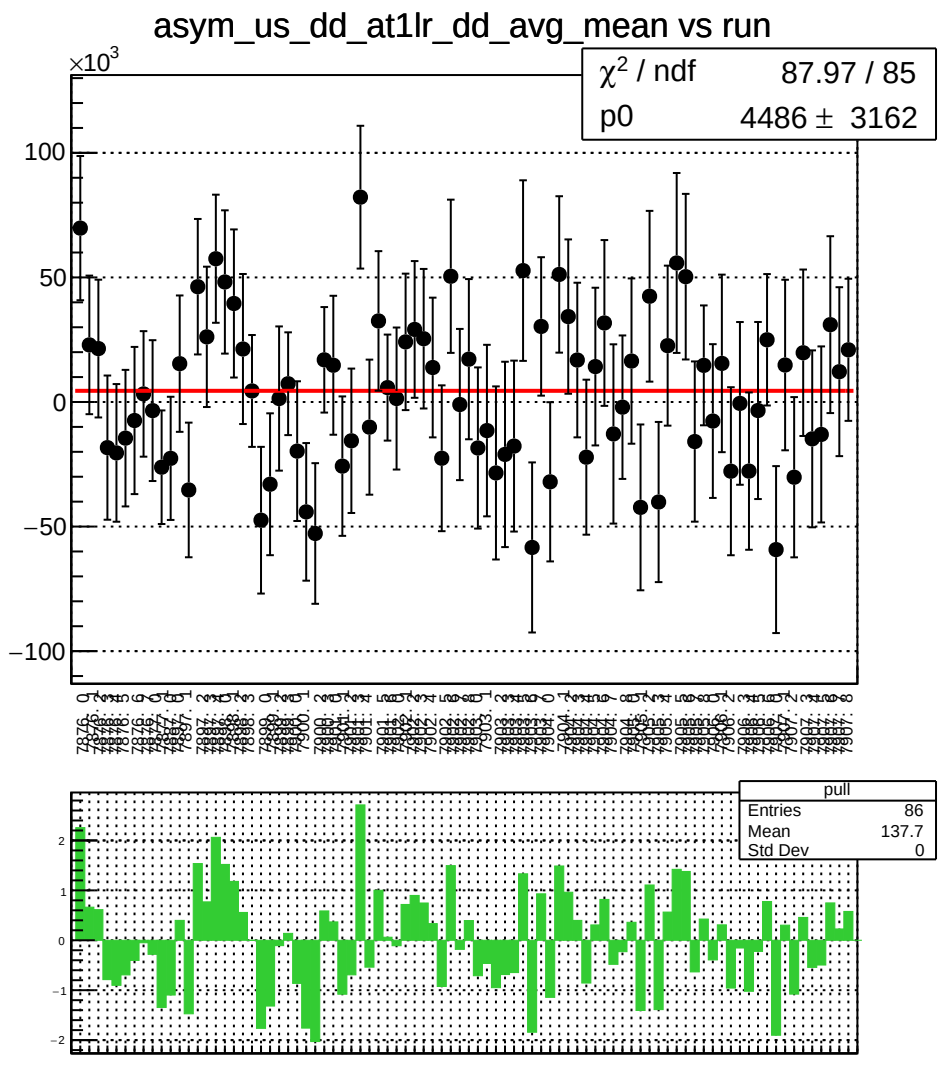

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 98.4 / 85
p0 1310 ± 2379
pull
Entries 86
Mean 344.4
Std Dev 0

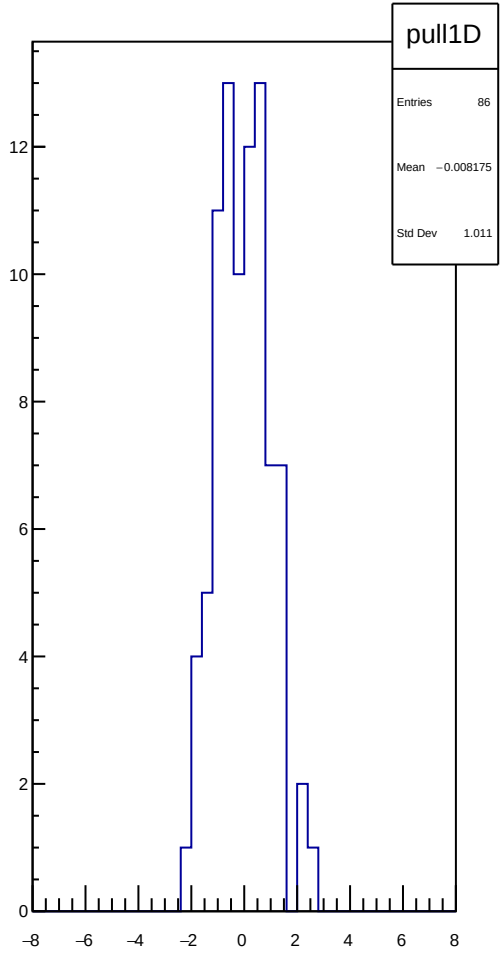

pull1D
Entries 86
Mean −0.001694
Std Dev 1.07

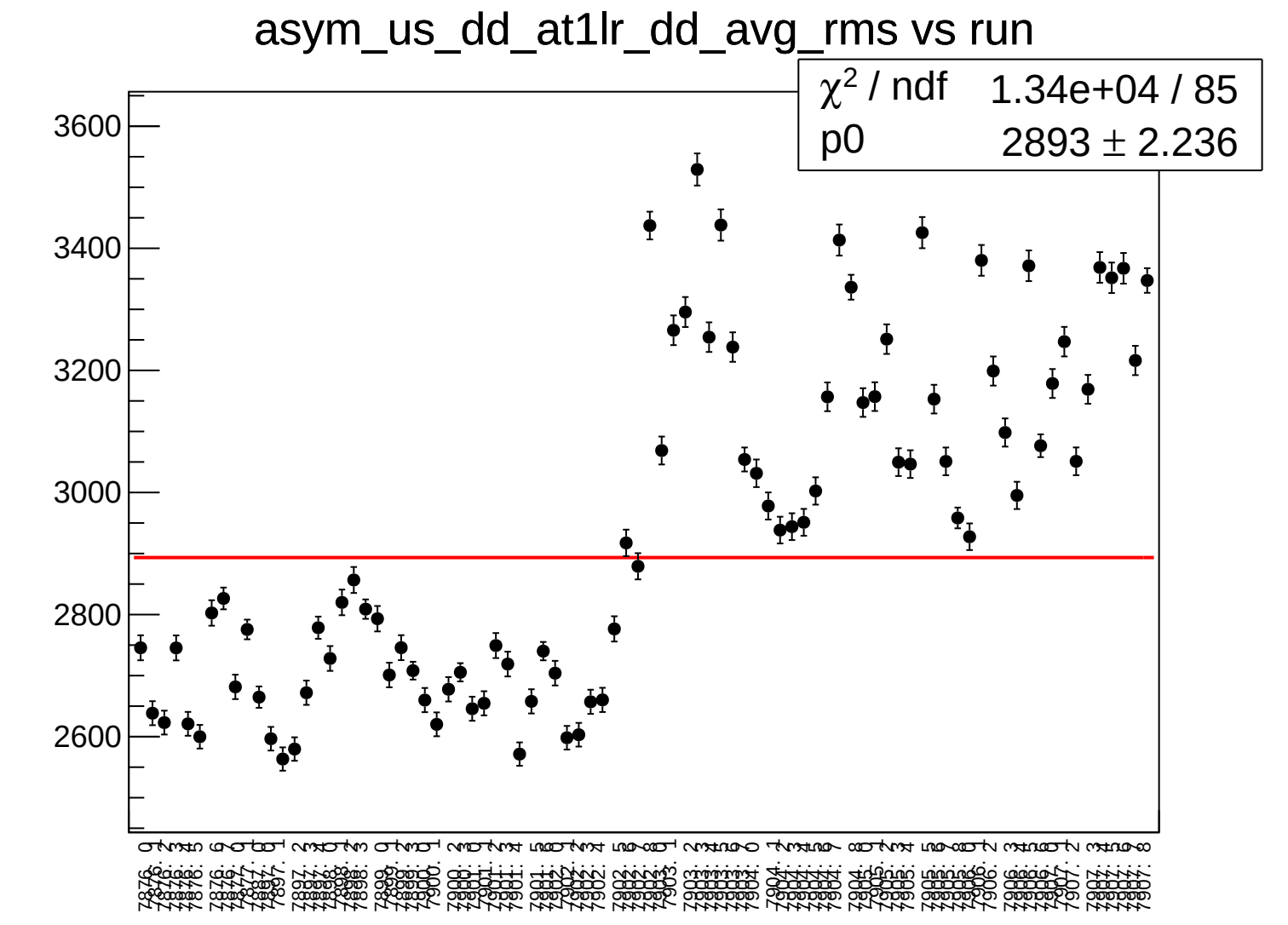

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 428.1 / 85
p0 2185 ± 1.682
2350
2300
2250
2200
2150
2100

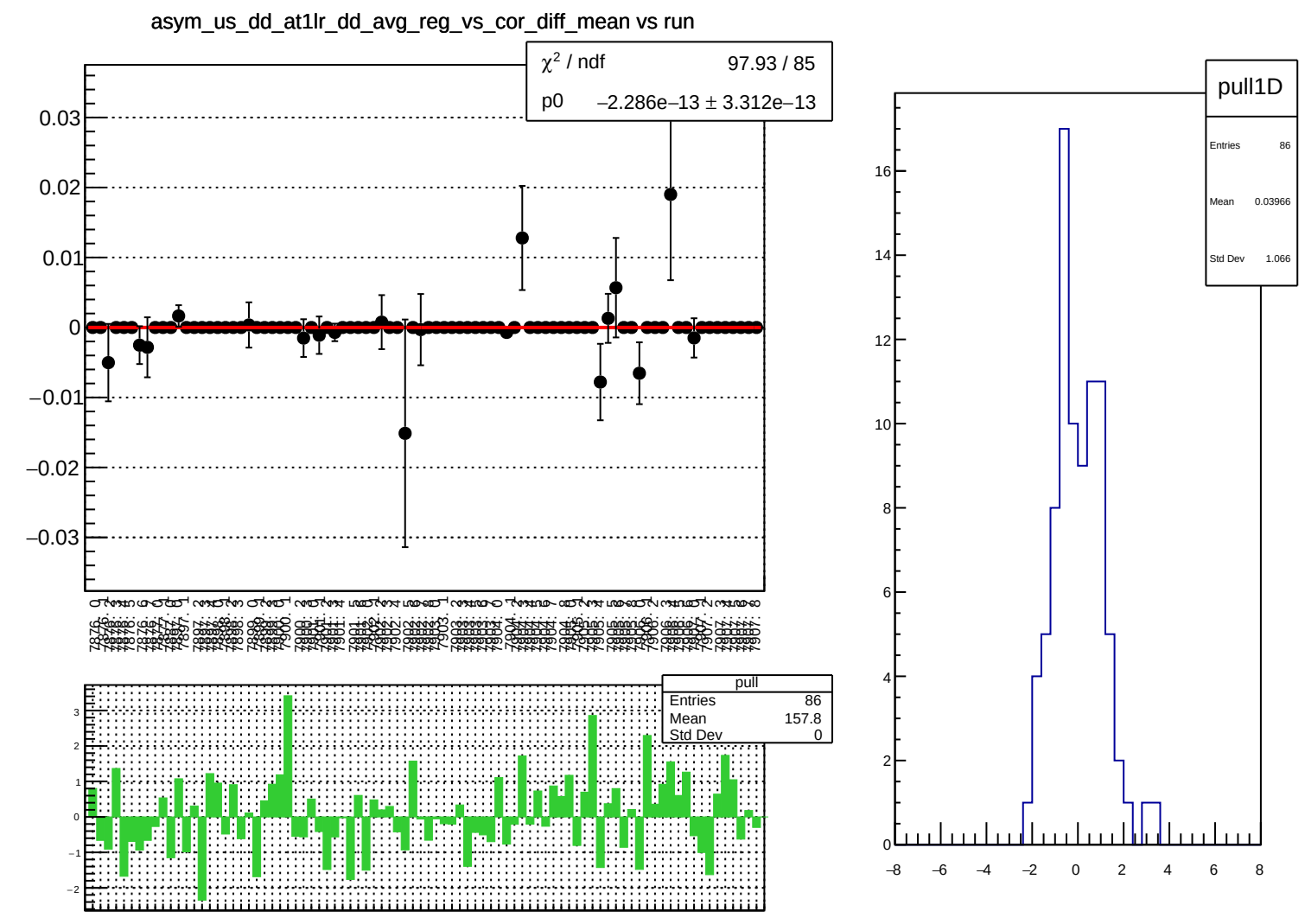

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 70.67 / 85
p0 −2952 ± 1998
pull
Entries 86
Mean 138.8
Std Dev 0
pull1D
Entries 86
Mean 0.004849
Std Dev 0.9065

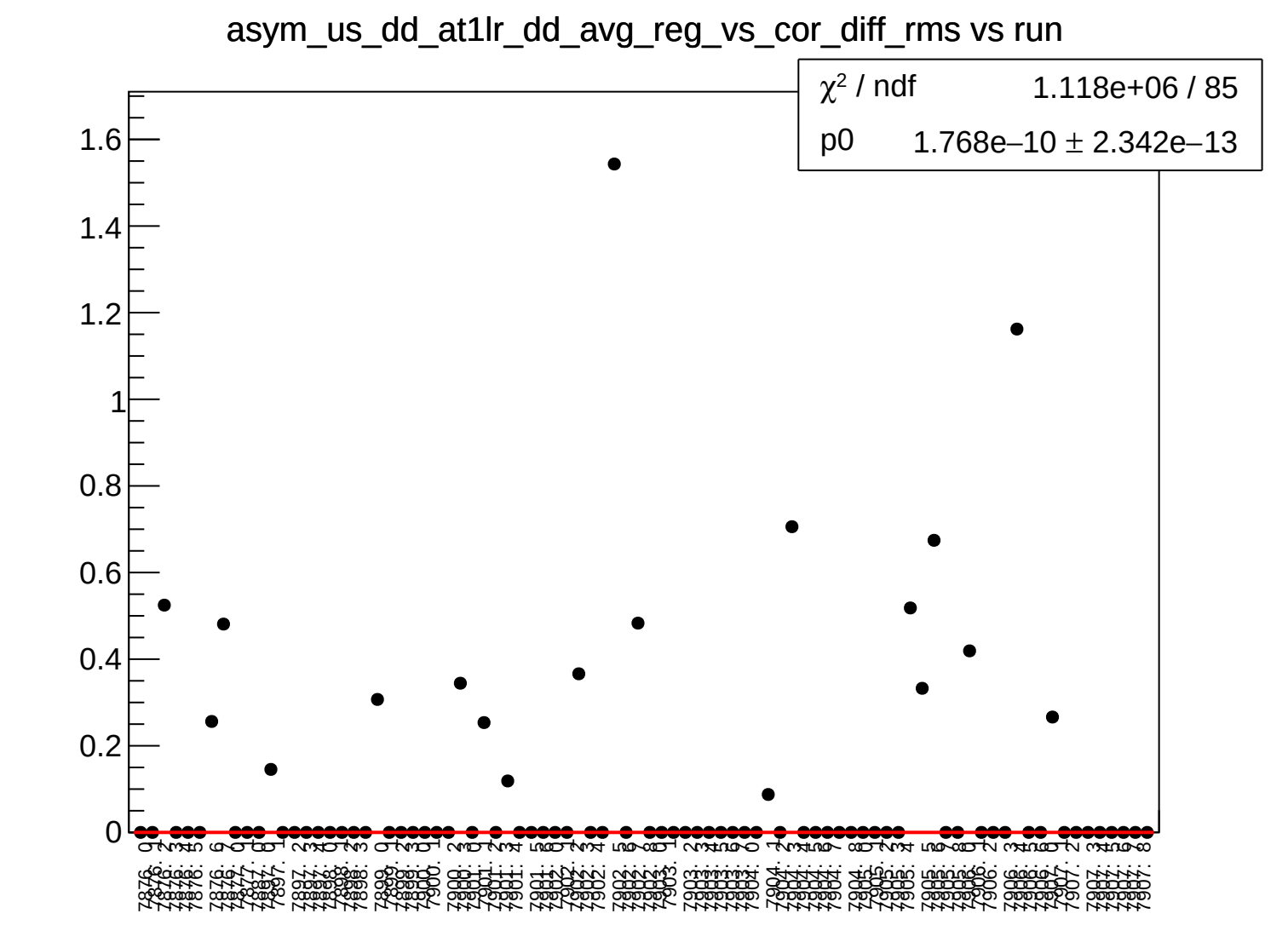

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.846e+04 / 85
p0 1804 ± 1.413
2800
2600
2400
2200
2000
1800
1600
1400

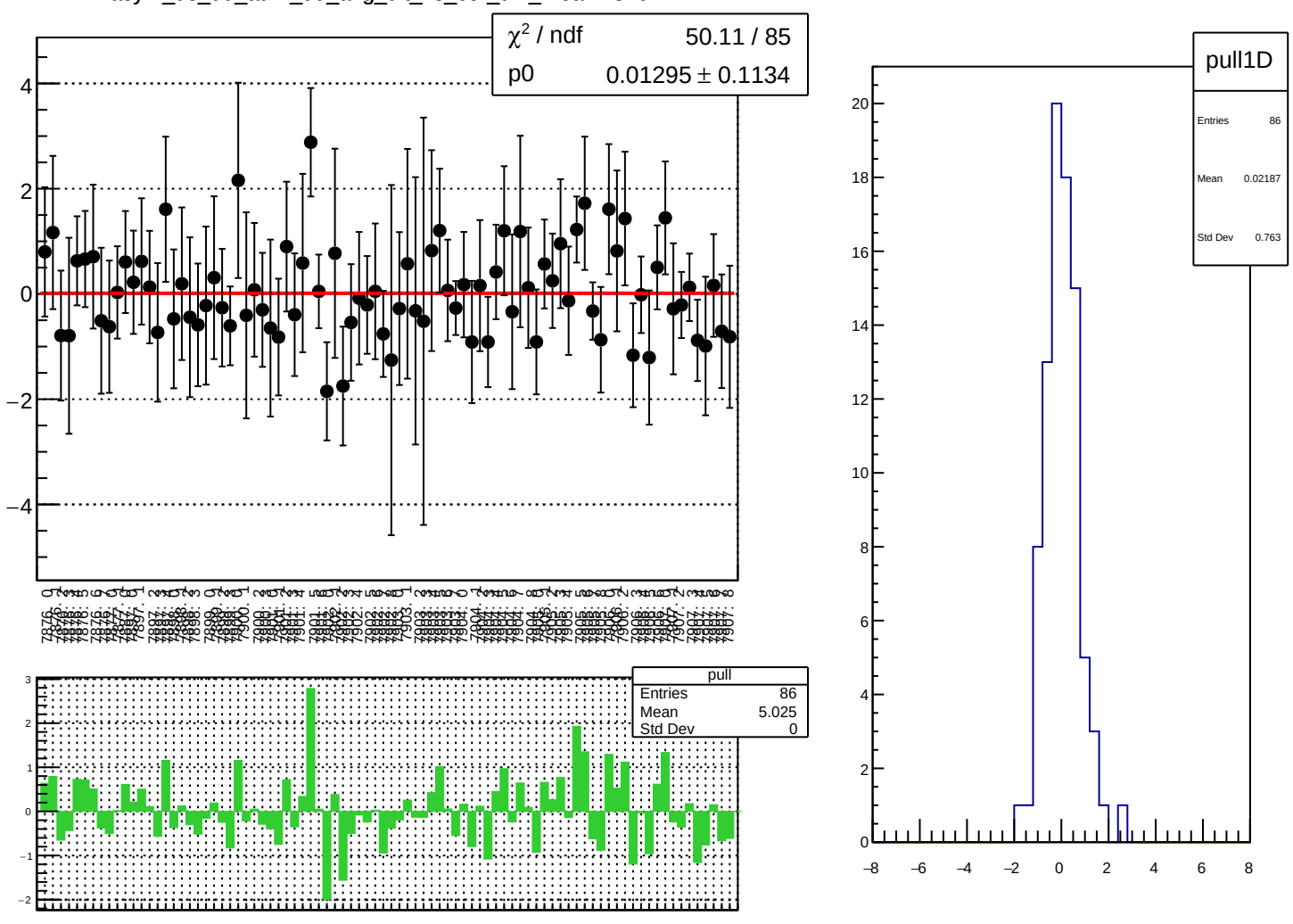

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 87.97 / 85
p0 4486 ± 3162
100
50
0
−50
−100
pull
Entries 86
Mean 137.7
Std Dev 0
2
1
0
−1
−2

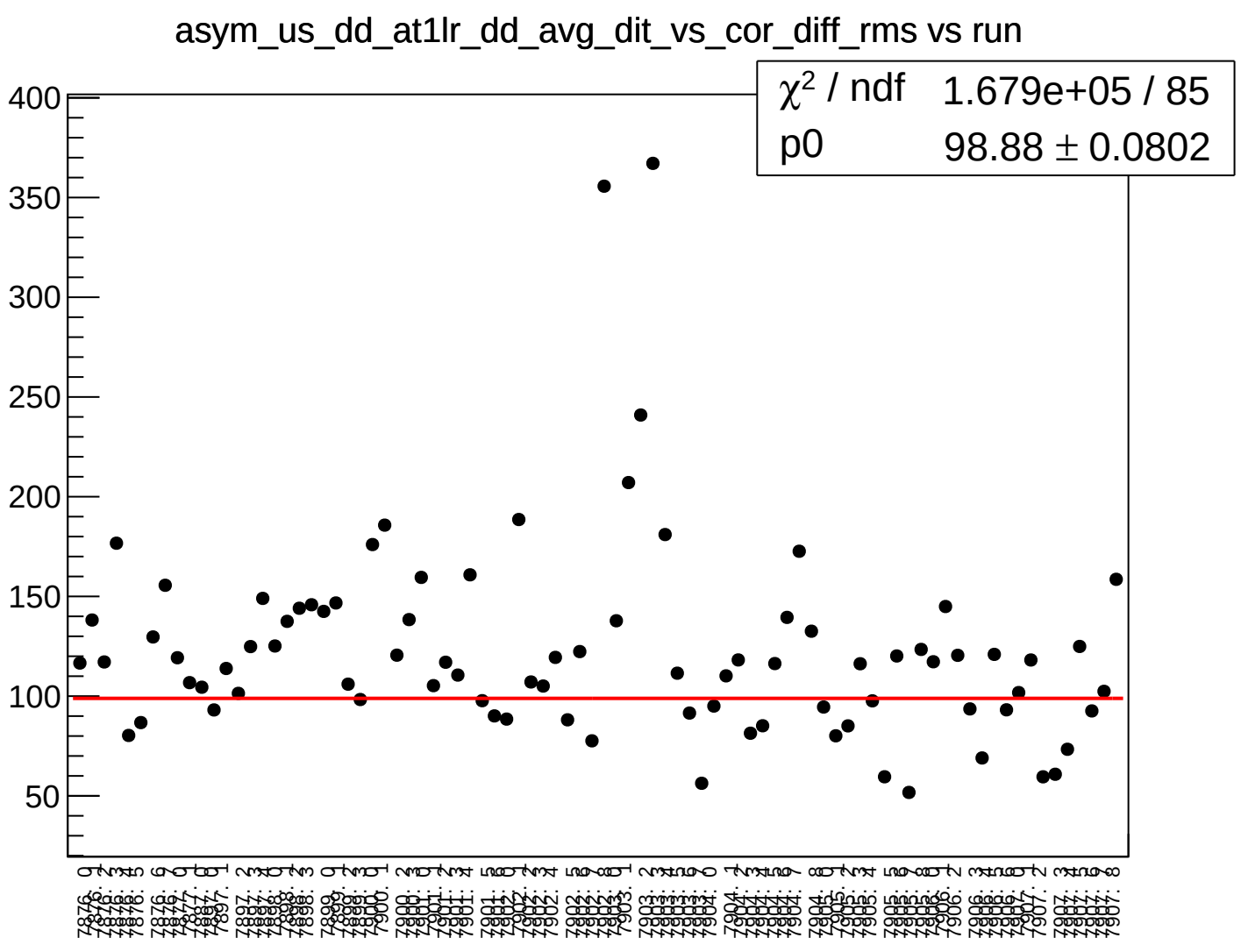

pull1D
Entries 86
Mean −0.008175
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

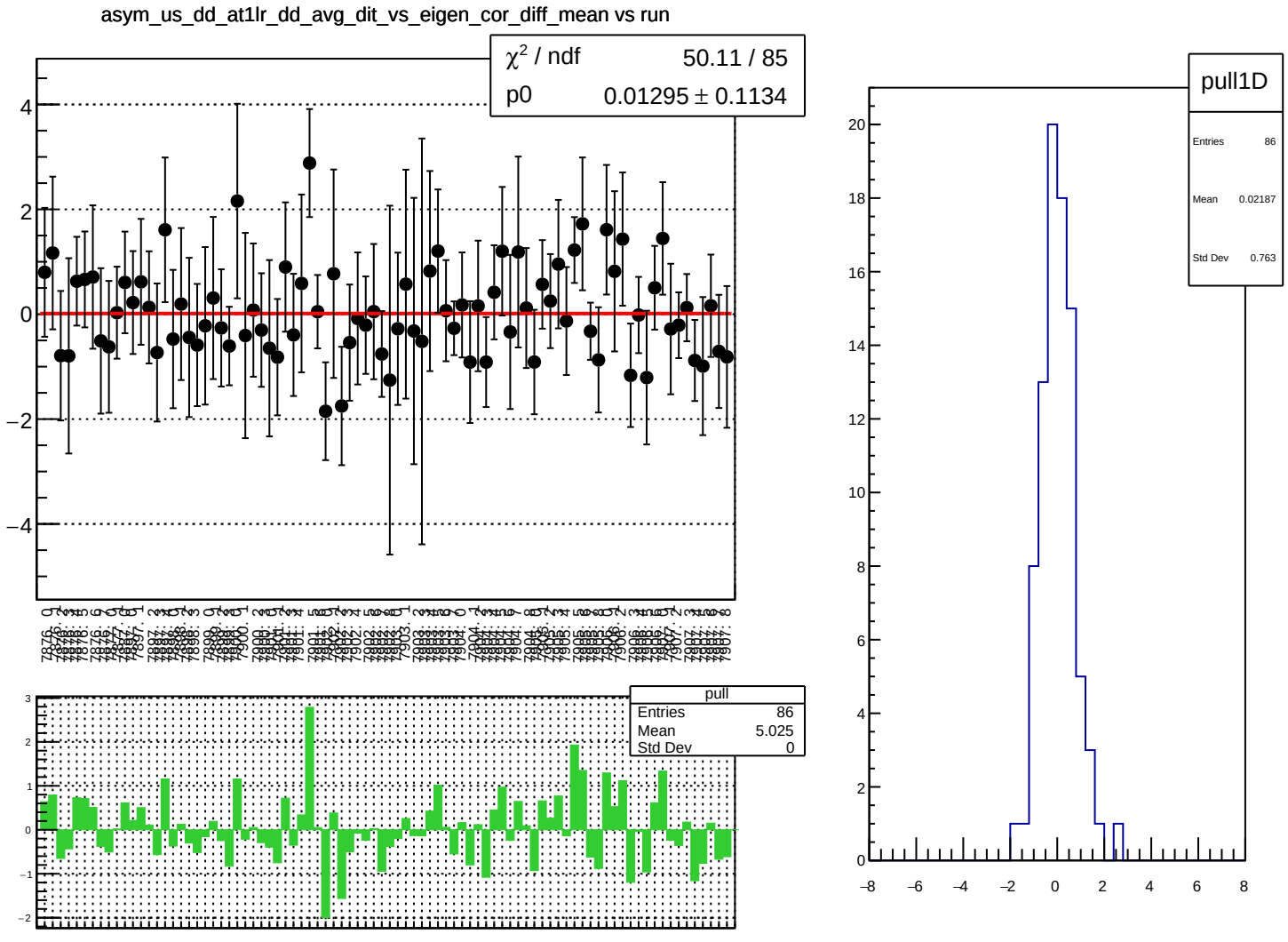

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1.34e+04 / 85
p0 2893 ± 2.236
3600
3400
3200
3000
2800
2600

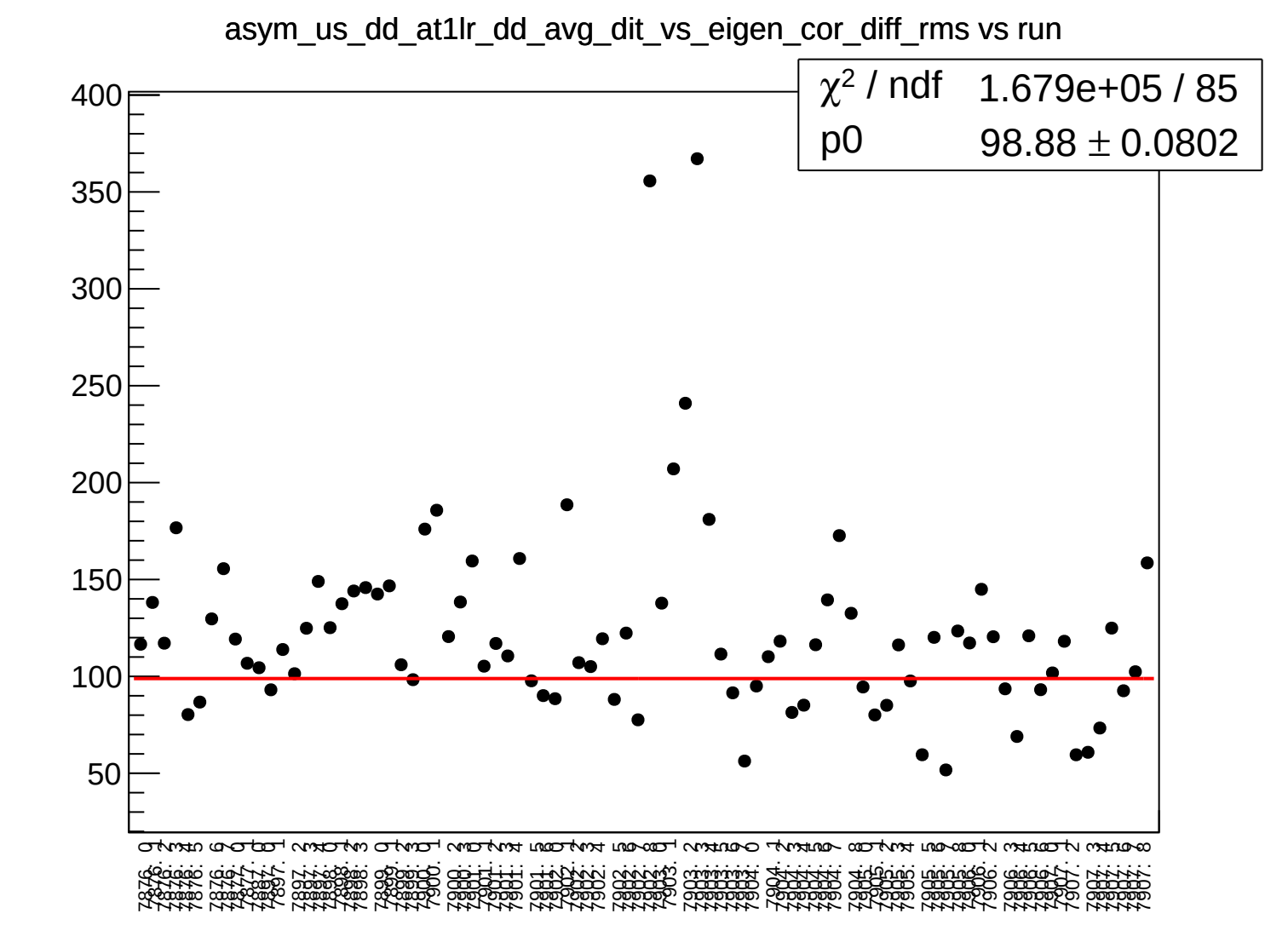

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.93 / 85
p0 −2.286e−13 ± 3.312e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 157.8
Std Dev 0
pull1D
Entries 86
Mean 0.03966
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

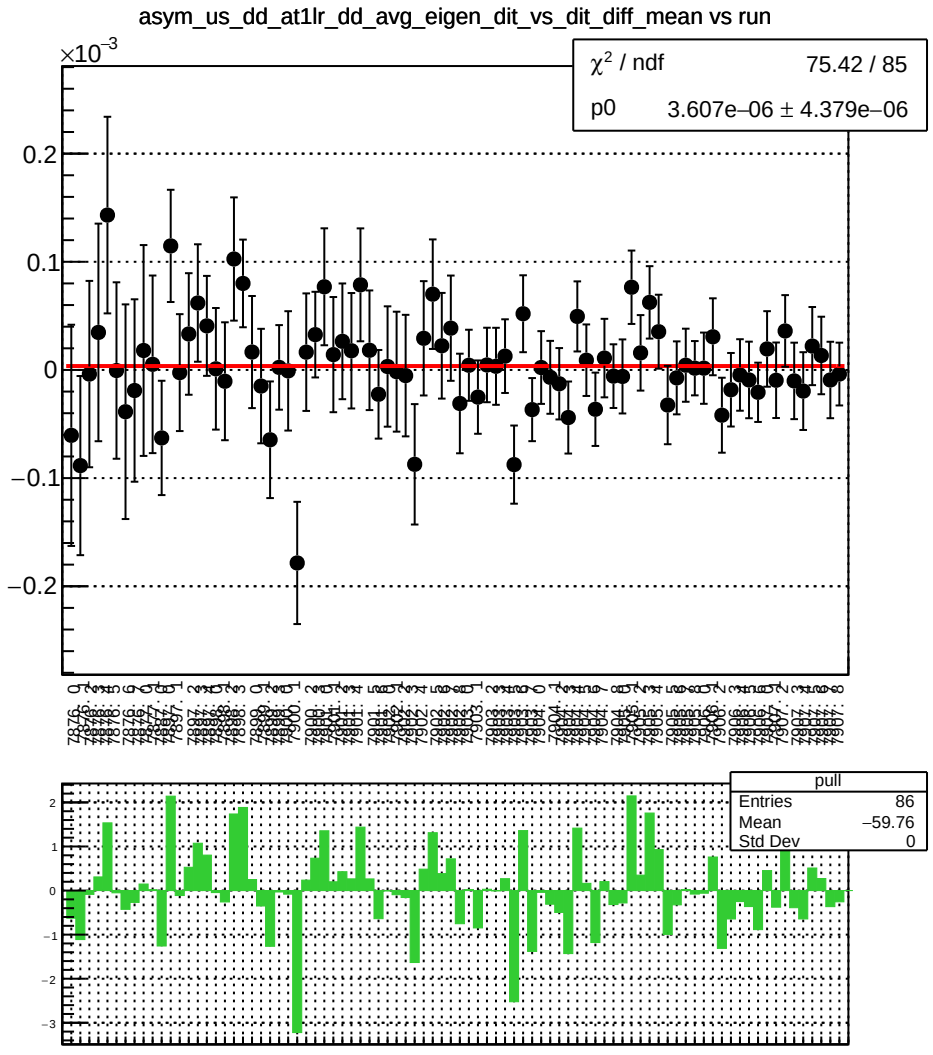

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.118e+06 / 85
p0 1.768e−10 ± 2.342e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

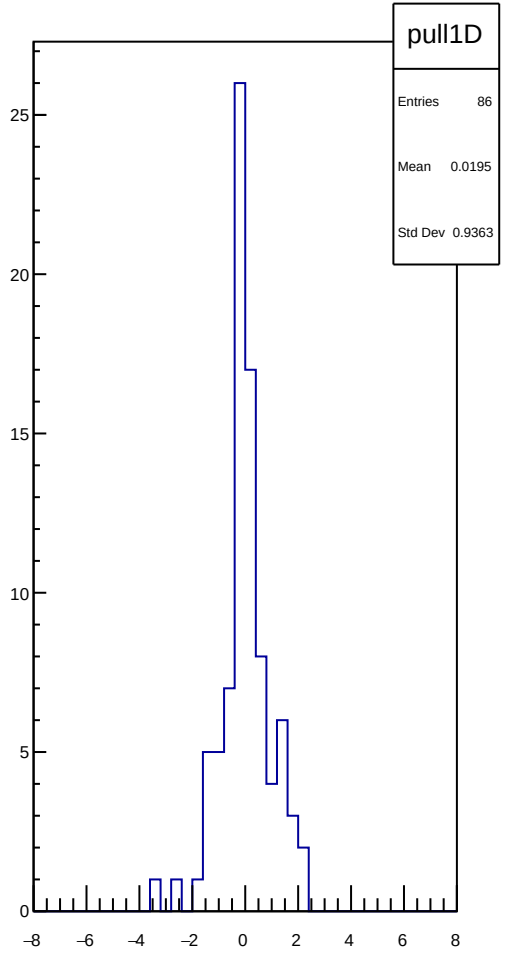

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.11 / 85
p0 0.01295 ± 0.1134
pull
Entries 86
Mean 5.025
Std Dev 0
pull1D
Entries 86
Mean 0.02187
Std Dev 0.763

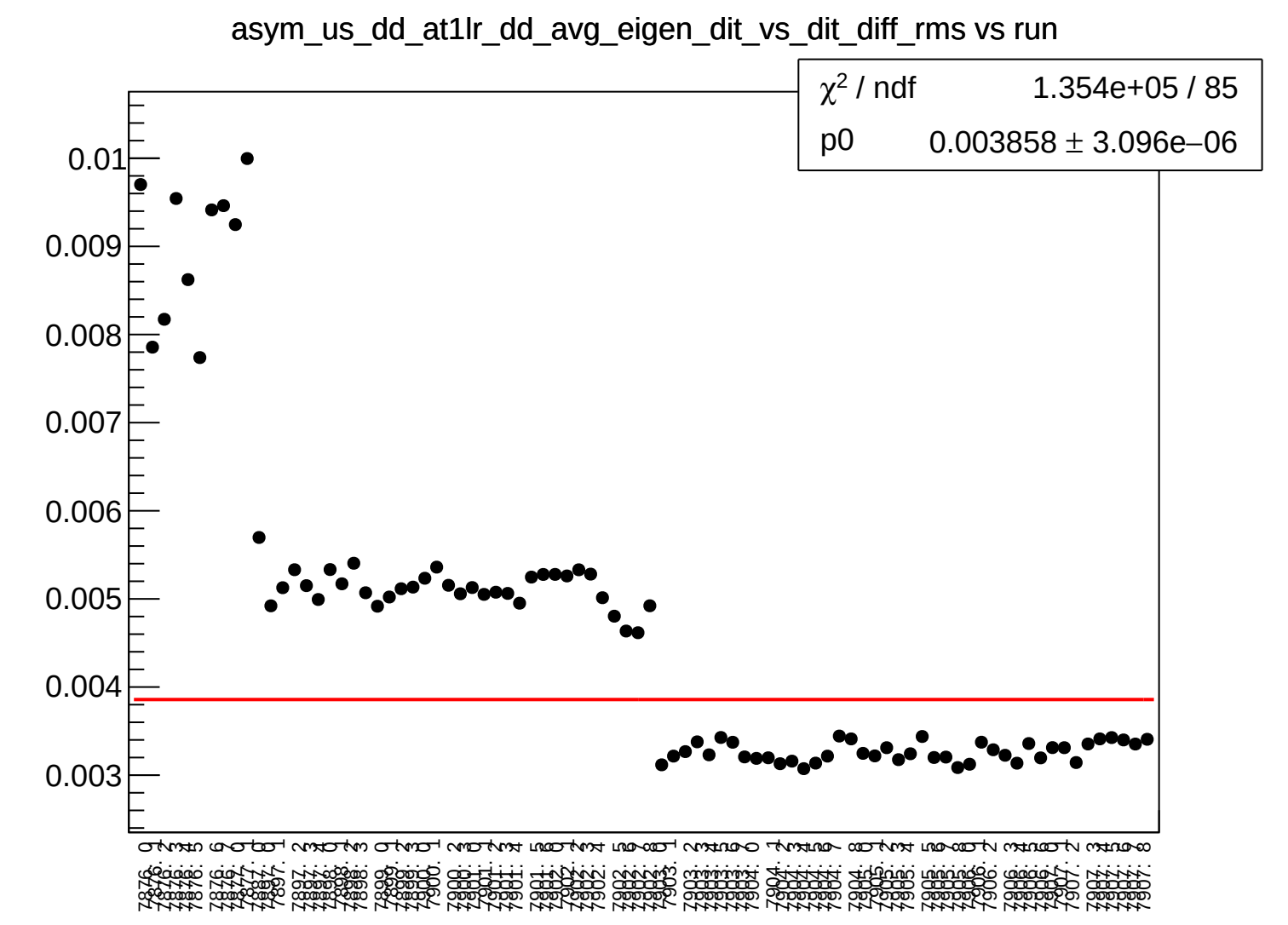

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.679e+05 / 85
p0 98.88 ± 0.0802
400
350
300
250
200
150
100
50

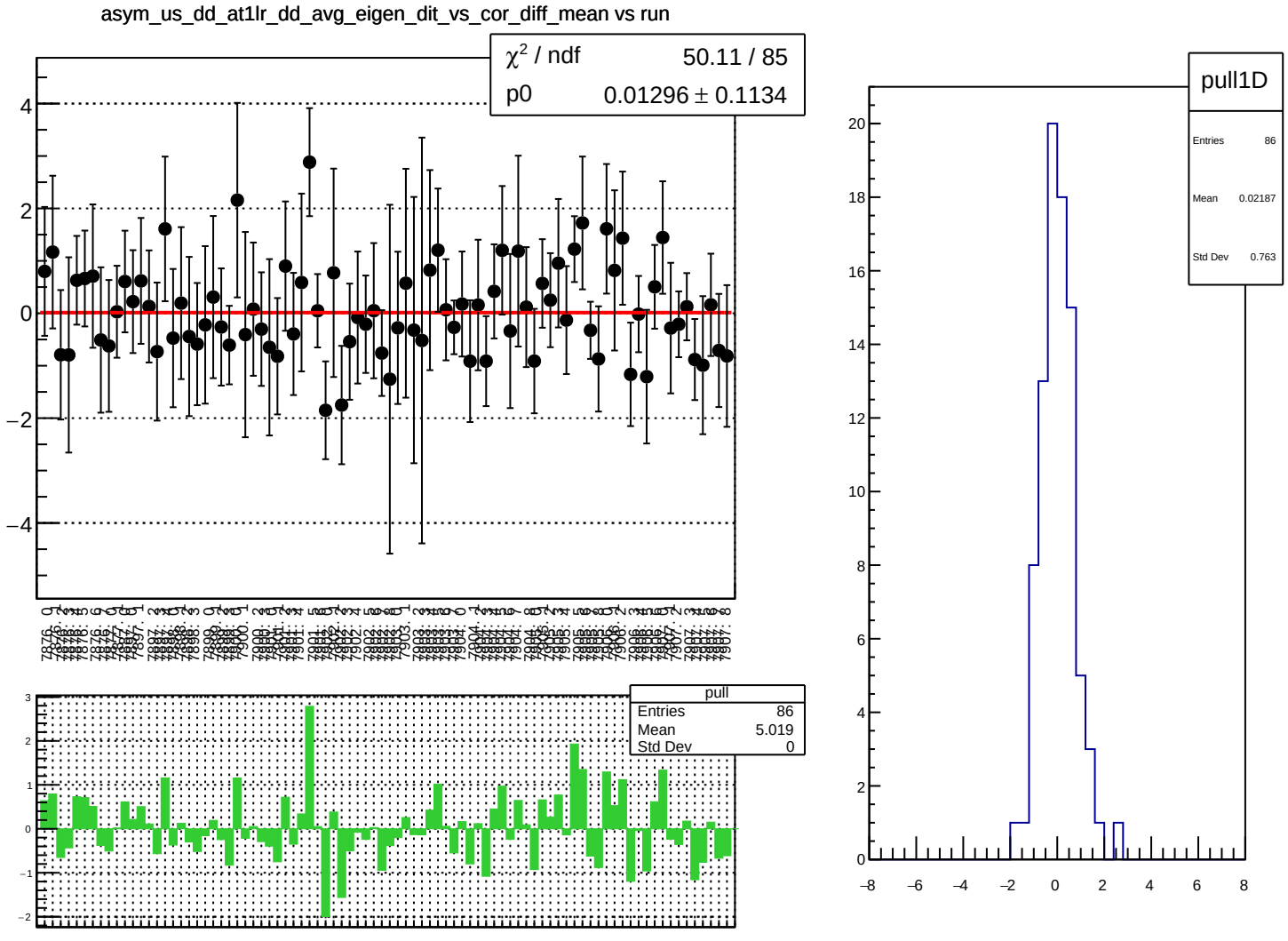

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.11 / 85
p0 0.01295 ± 0.1134
pull
Entries 86
Mean 5.025
Std Dev 0
pull1D
Entries 86
Mean 0.02187
Std Dev 0.763

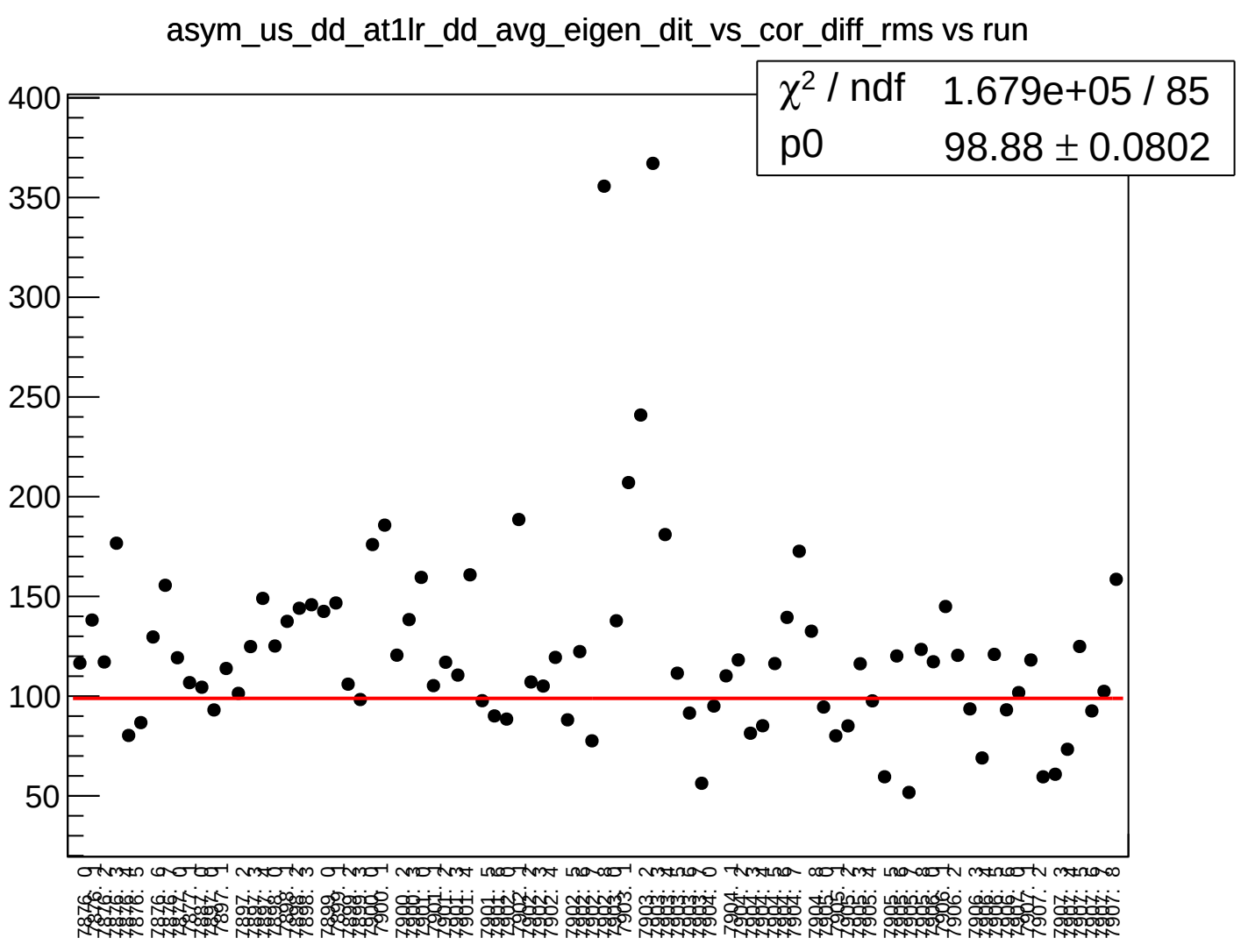

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.679e+05 / 85
p0 98.88 ± 0.0802
400
350
300
250
200
150
100
50

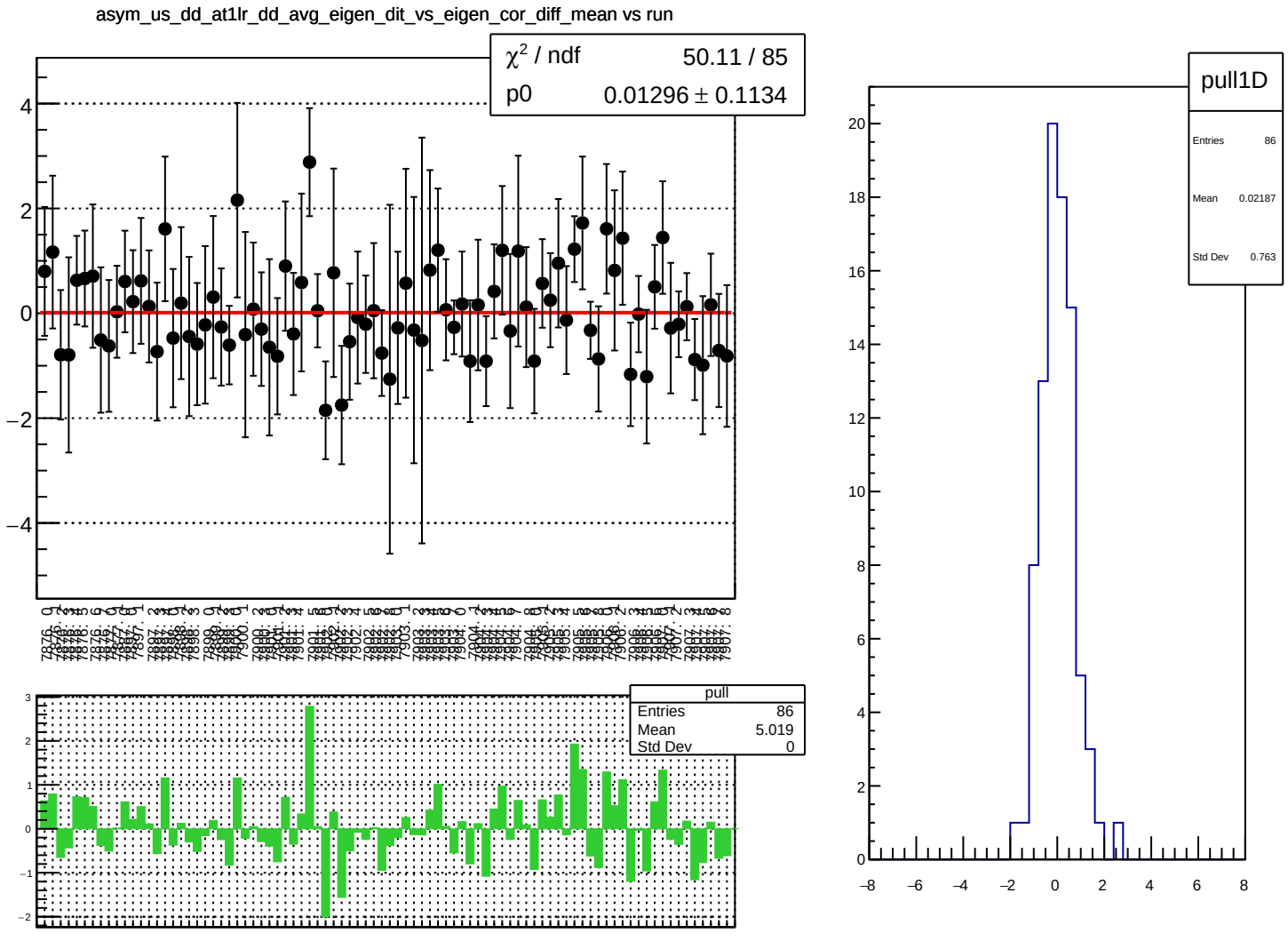

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.42 / 85
p0 3.607e−06 ± 4.379e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean −59.76
Std Dev 0
2
1
0
−1
−2
−3

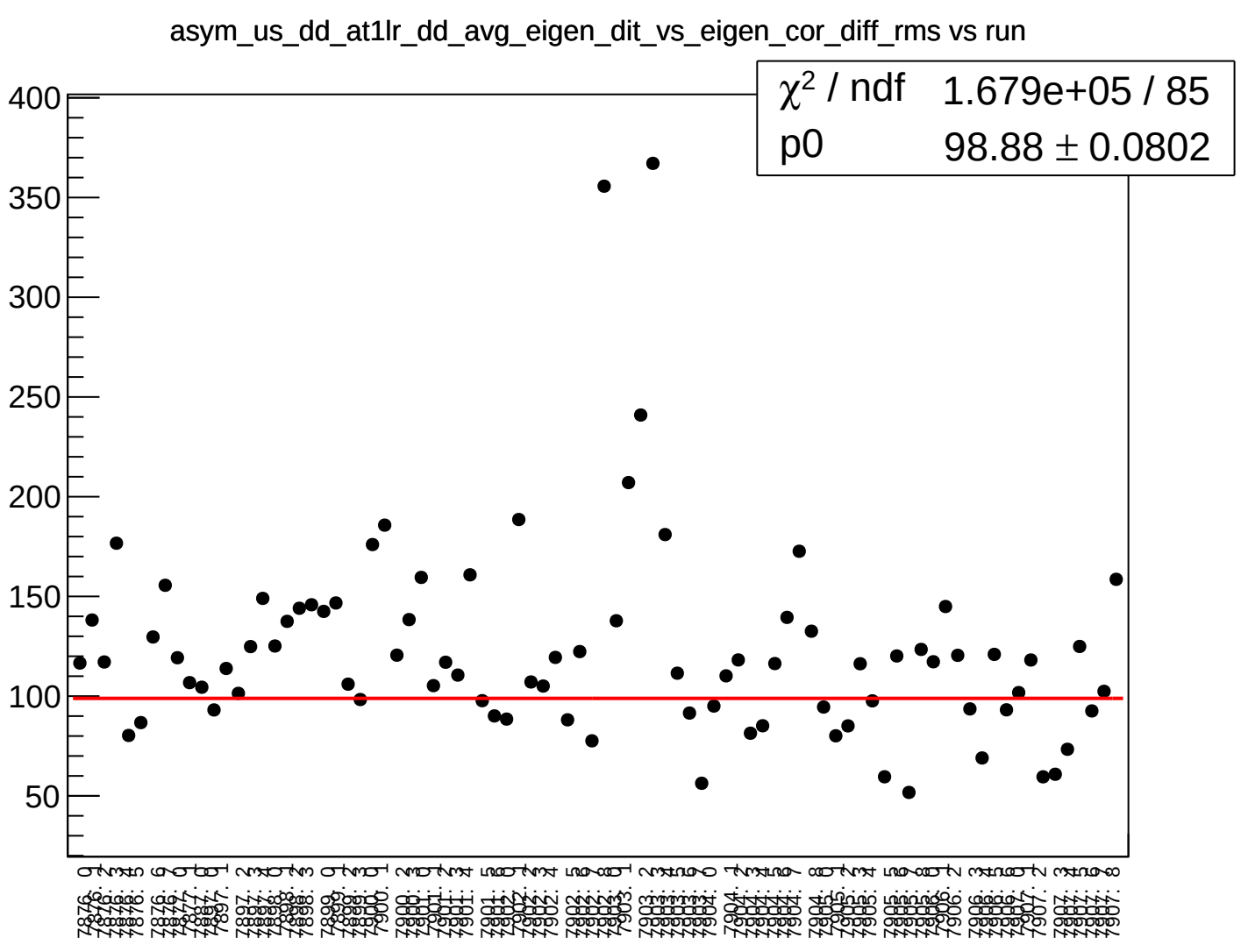

pull1D
Entries 86
Mean 0.0195
Std Dev 0.9363
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

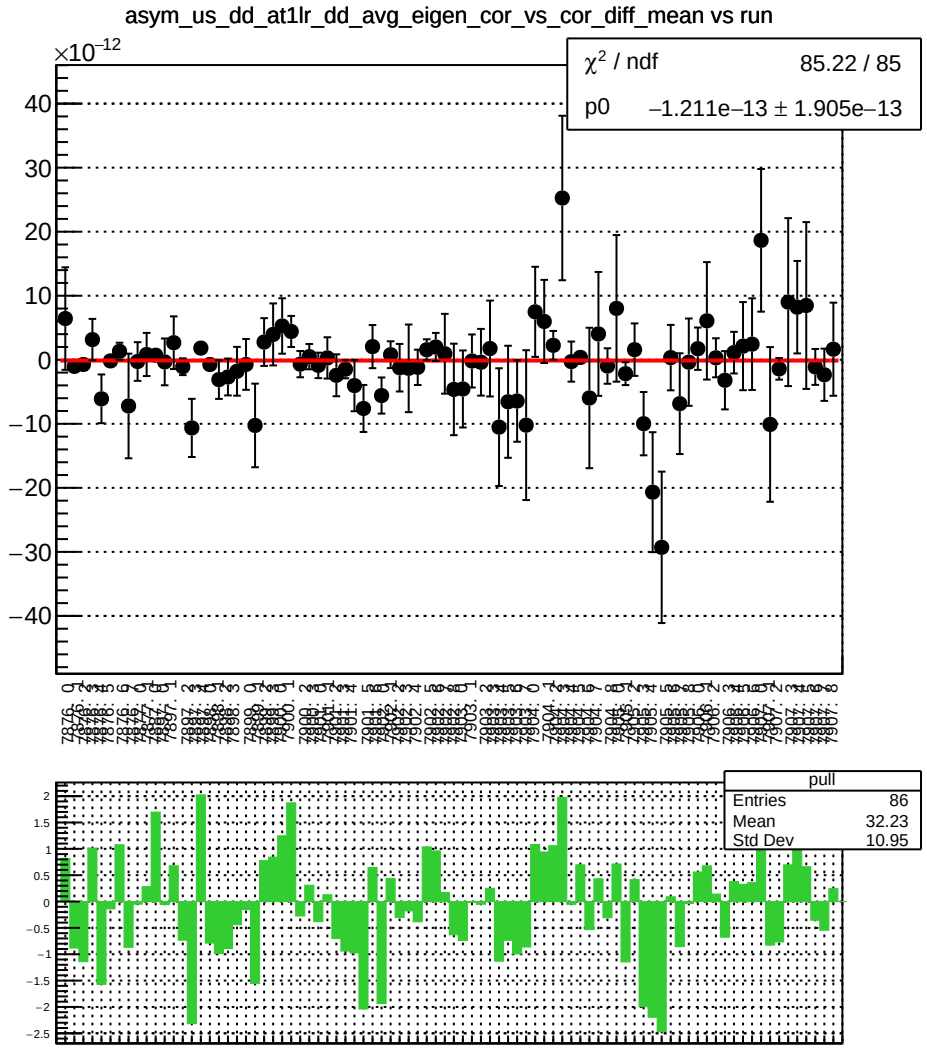

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.354e+05 / 85
p0 0.003858 ± 3.096e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

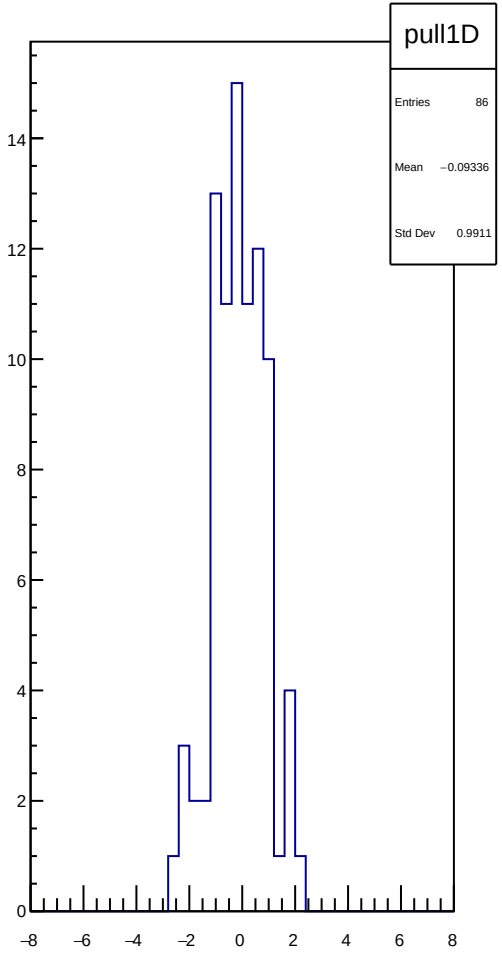

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.11 / 85
p0 0.01296 ± 0.1134
pull
Entries 86
Mean 5.019
Std Dev 0
pull1D
Entries 86
Mean 0.02187
Std Dev 0.763

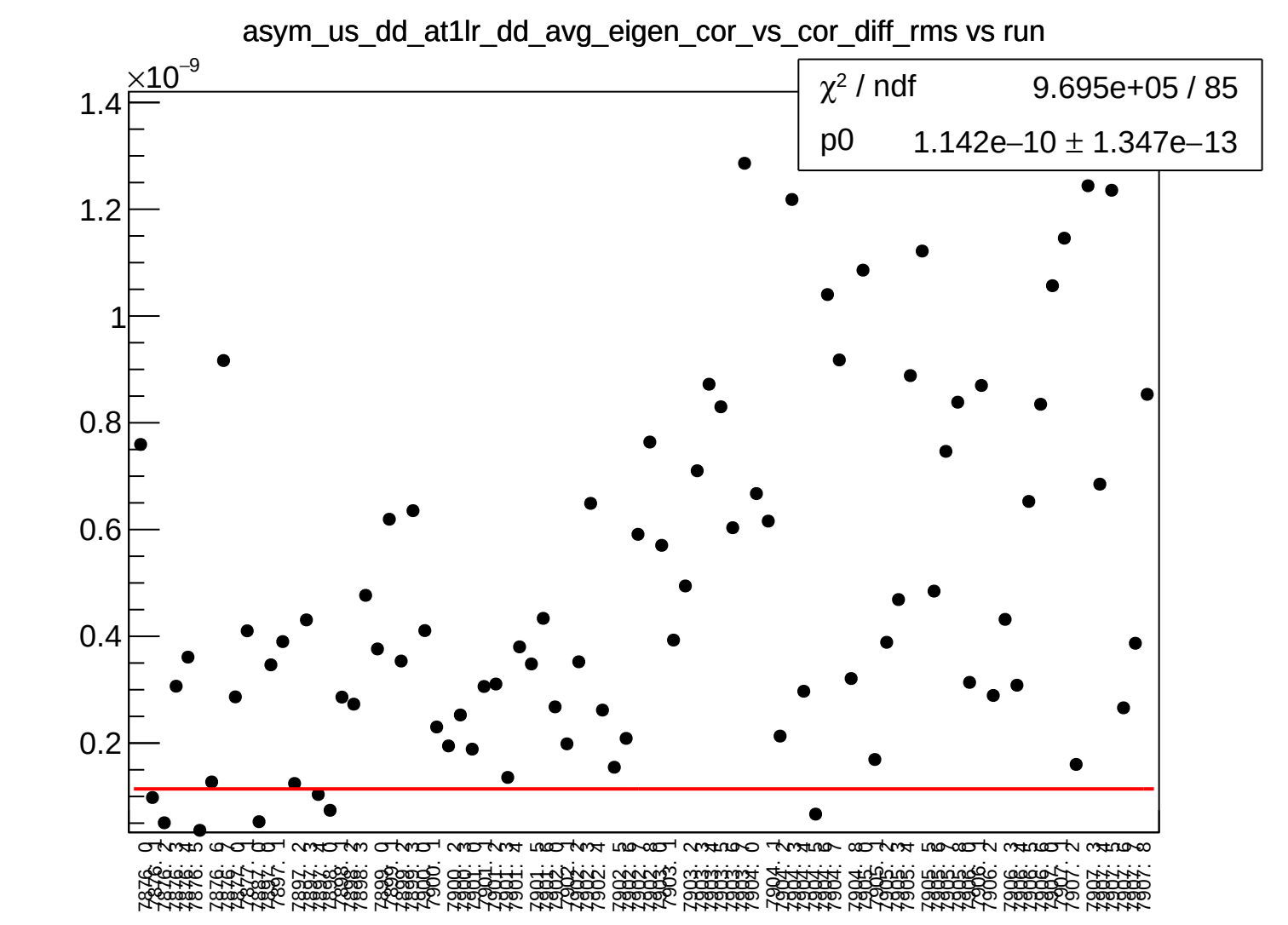

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.679e+05 / 85
p0 98.88 ± 0.0802
400
350
300
250
200
150
100
50

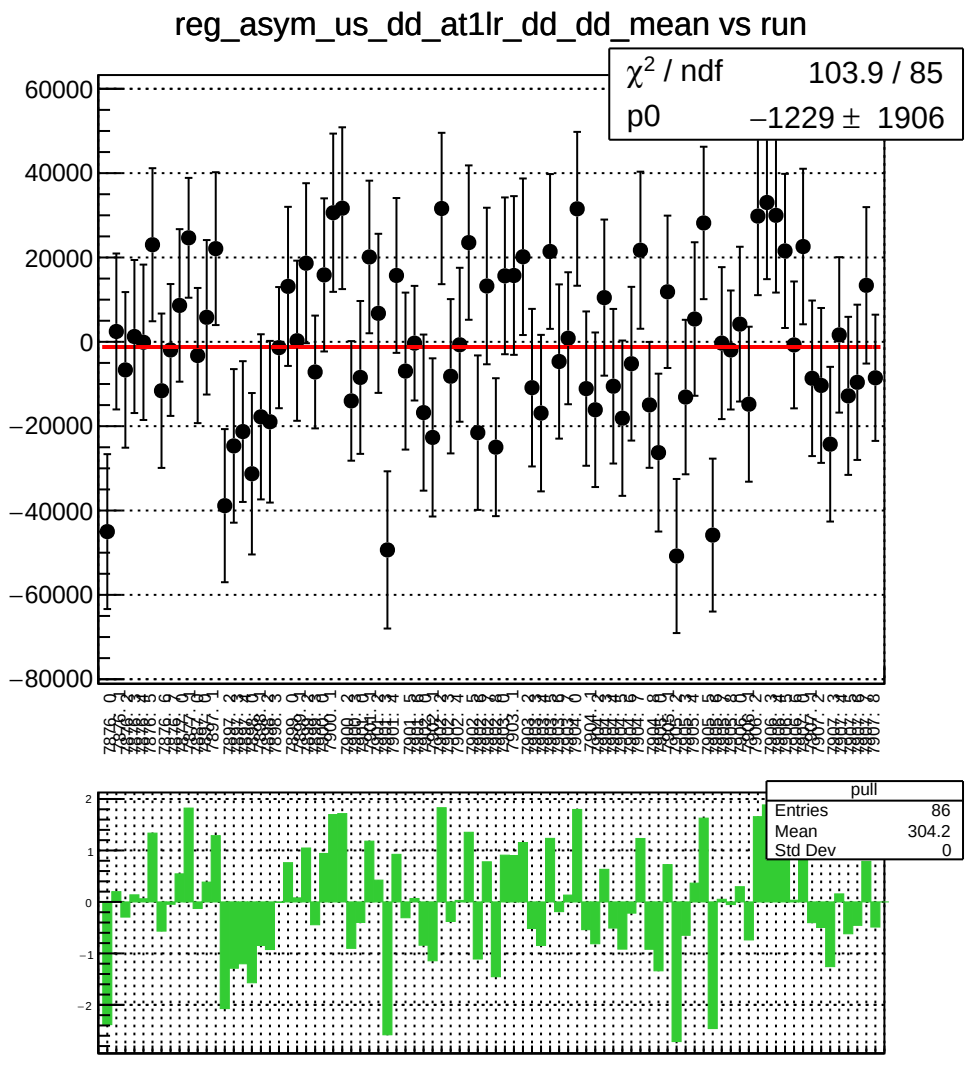

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.11 / 85
p0 0.01296 ± 0.1134
pull
Entries 86
Mean 5.019
Std Dev 0
pull1D
Entries 86
Mean 0.02187
Std Dev 0.763

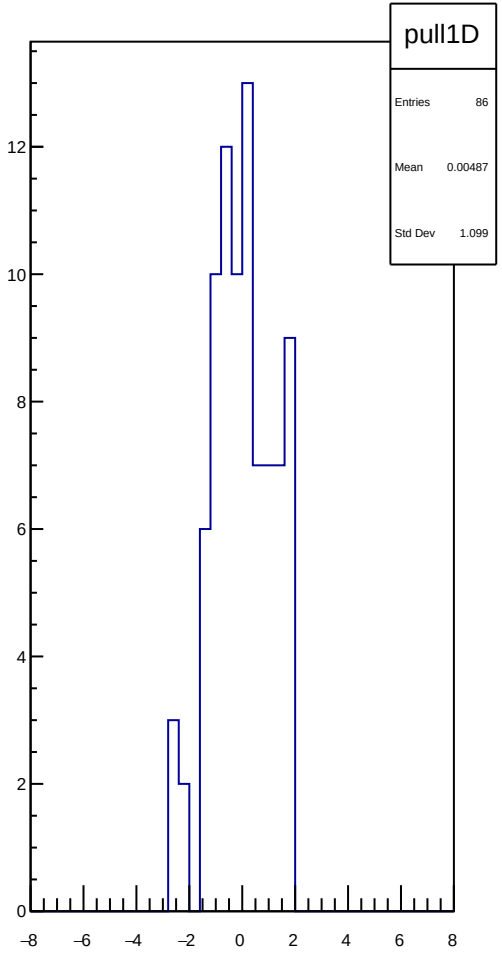

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.679e+05 / 85
p0 98.88 ± 0.0802
400
350
300
250
200
150
100
50

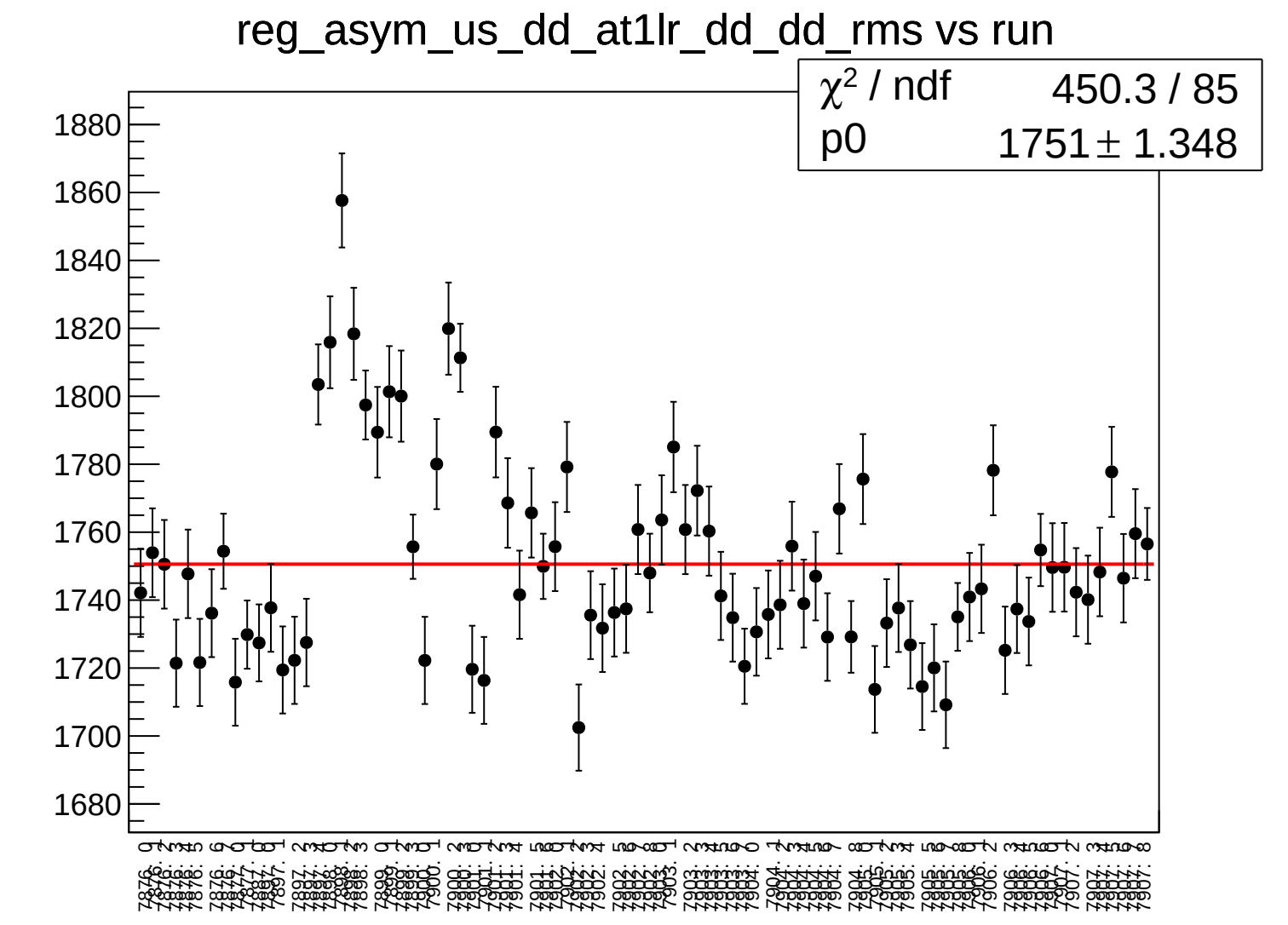

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.22 / 85
p0 −1.211e−13 ± 1.905e−13
pull
Entries 86
Mean 32.23
Std Dev 10.95

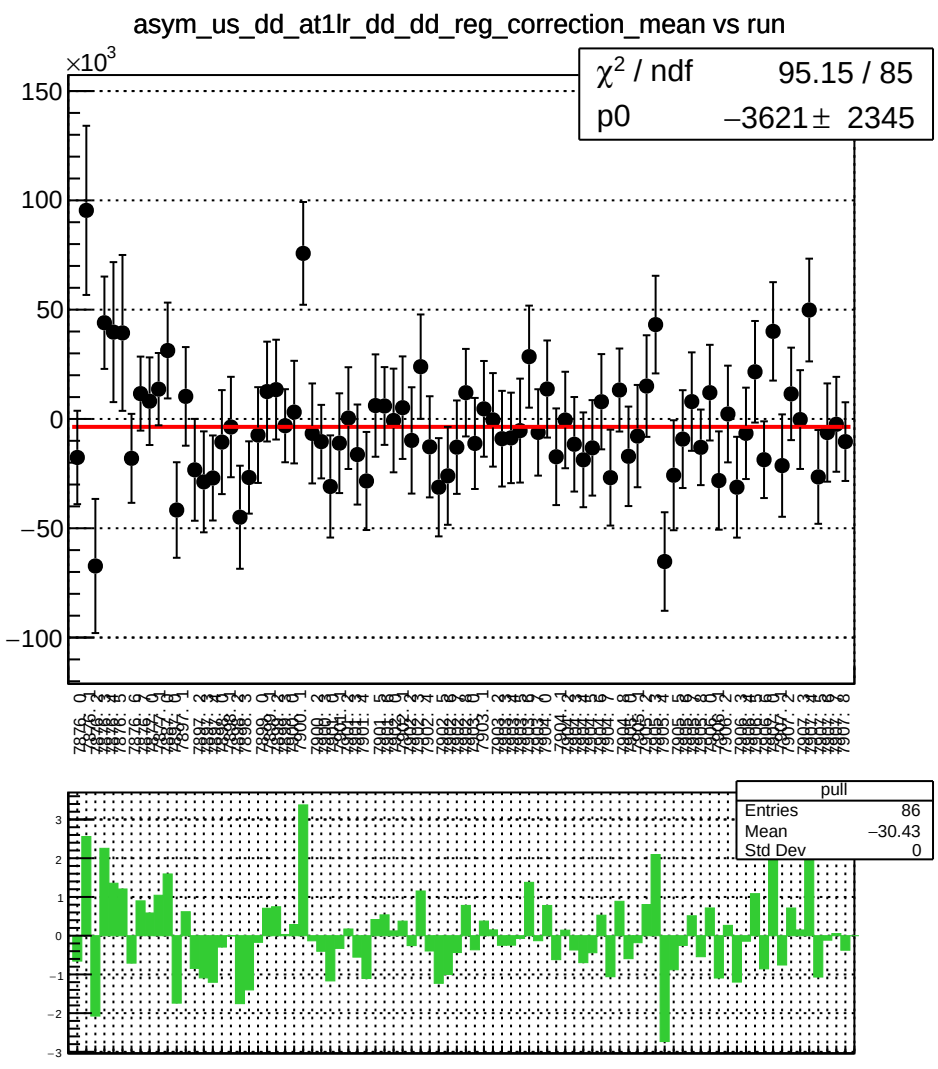

pull1D
Entries 86
Mean −0.09336
Std Dev 0.9911

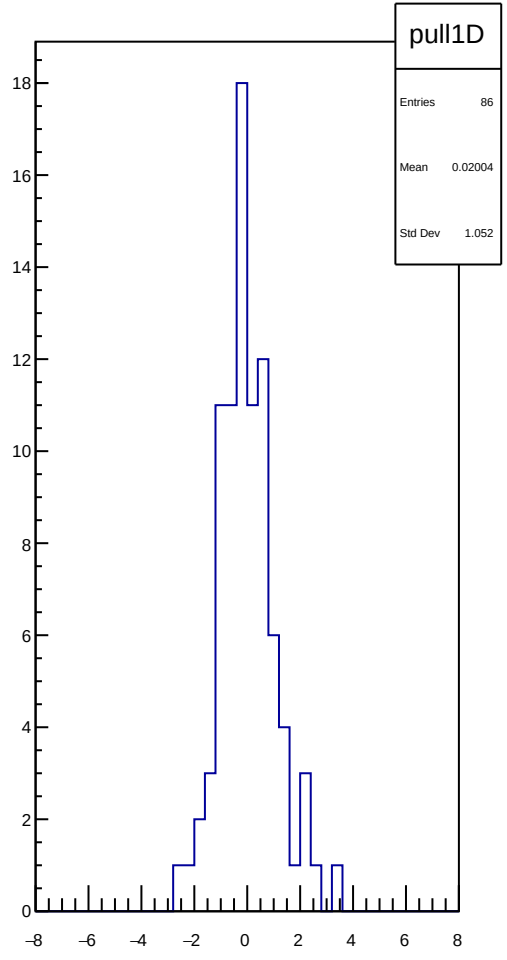

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.695e+05 / 85
p0 1.142e−10 ± 1.347e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

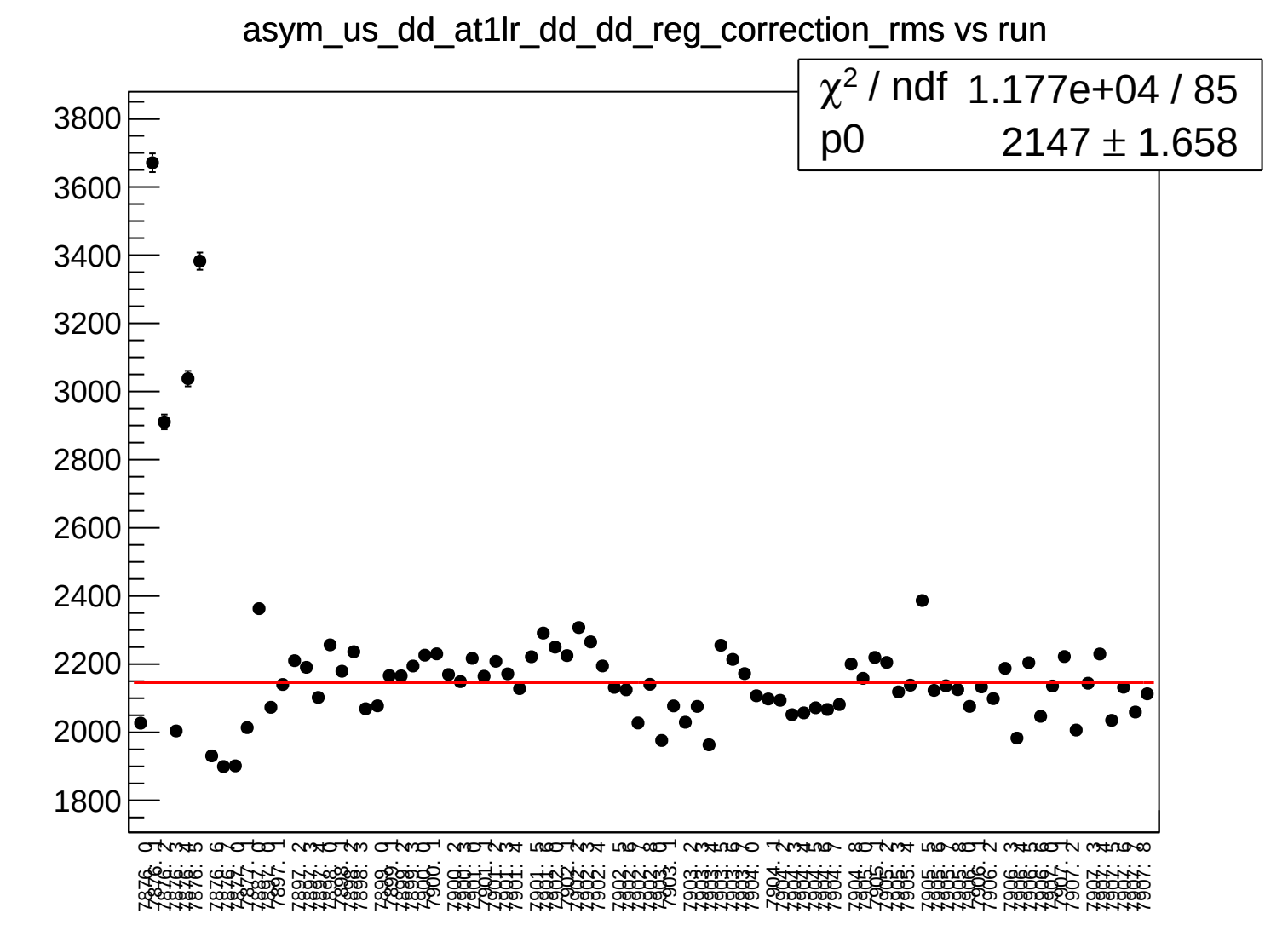

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.9 / 85
p0 −1229 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 304.2
Std Dev 0
2
1
0
−1
−2

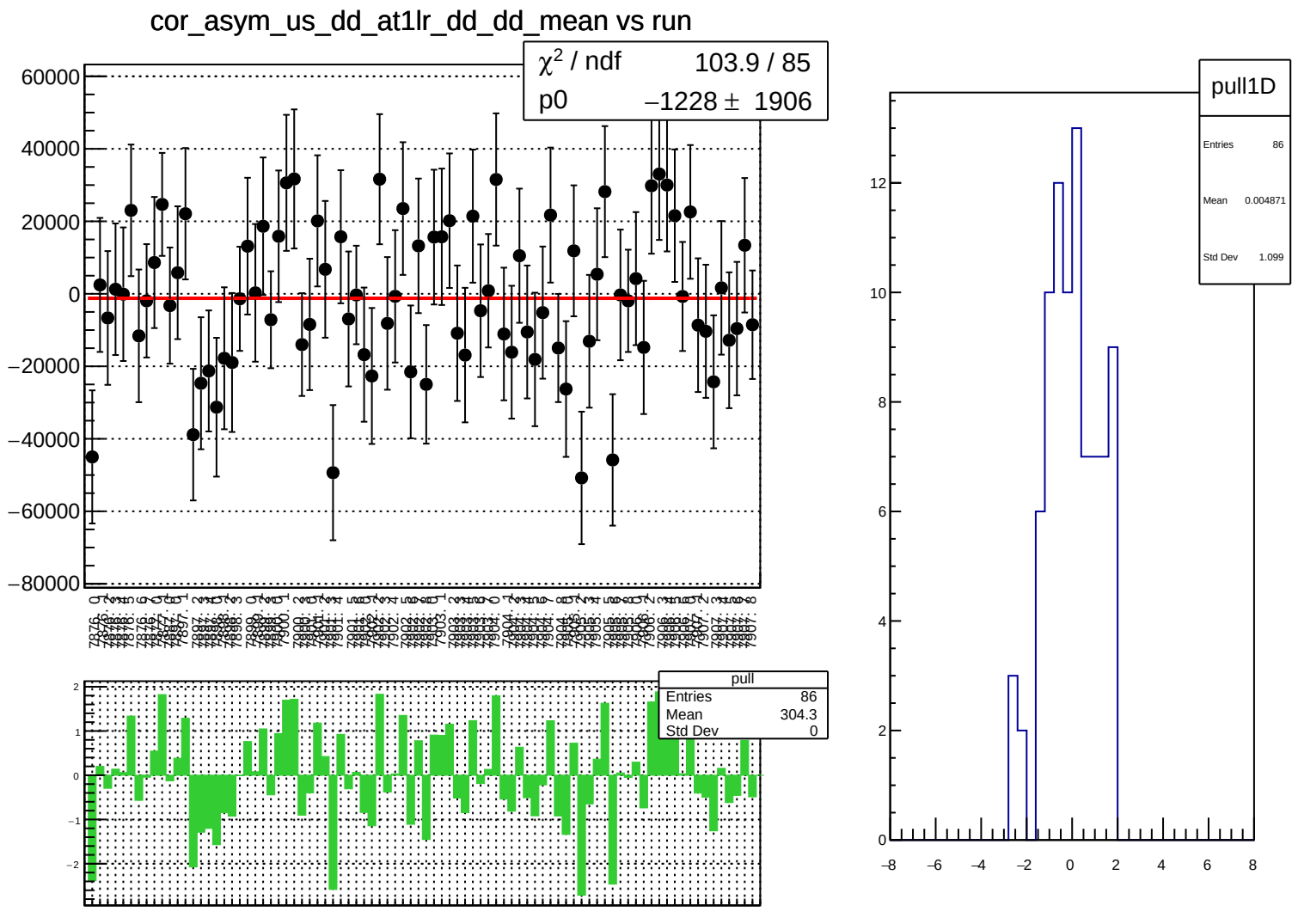

pull1D
Entries 86
Mean 0.00487
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

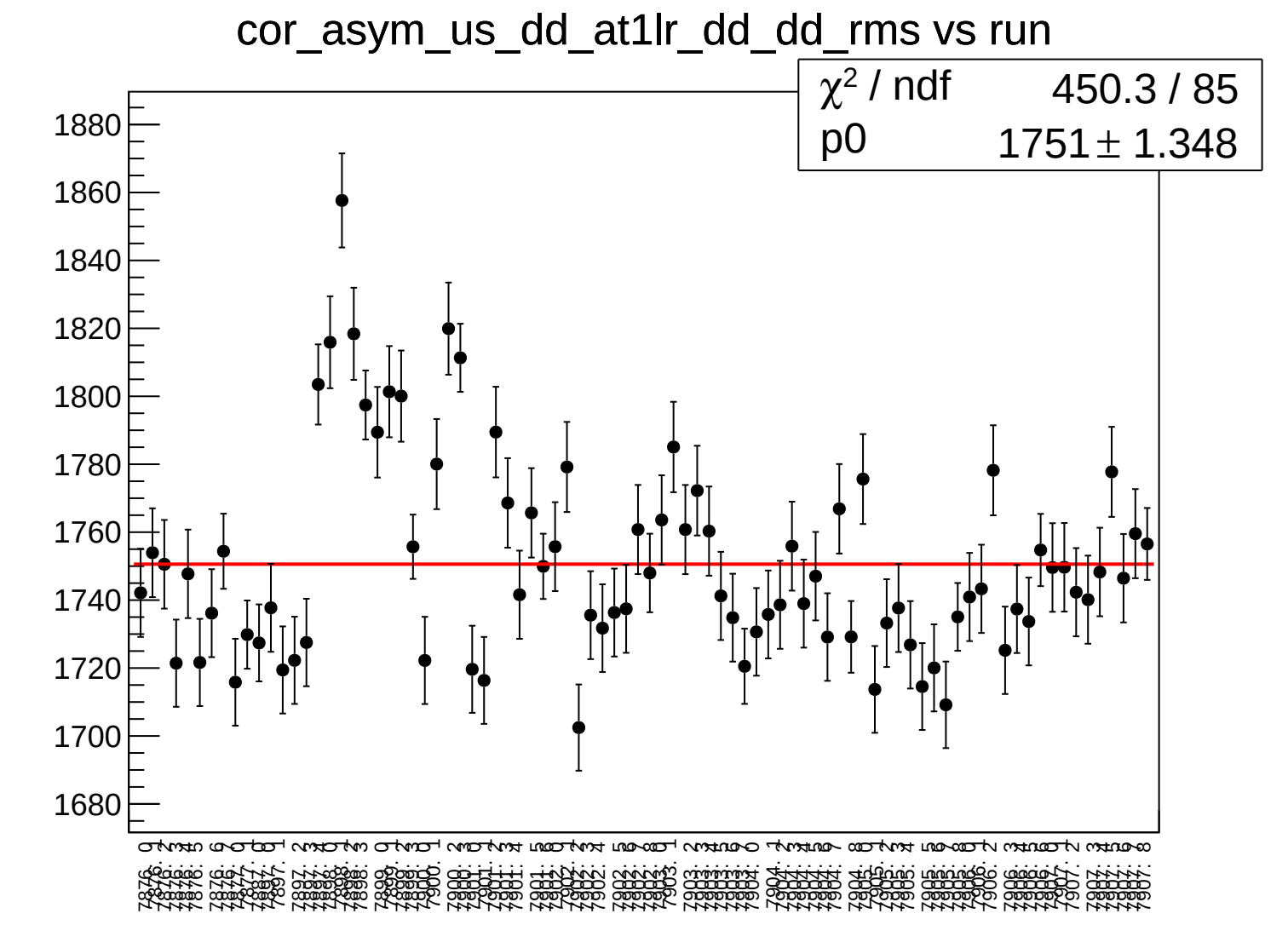

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 450.3 / 85
p0 1751 ± 1.348
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

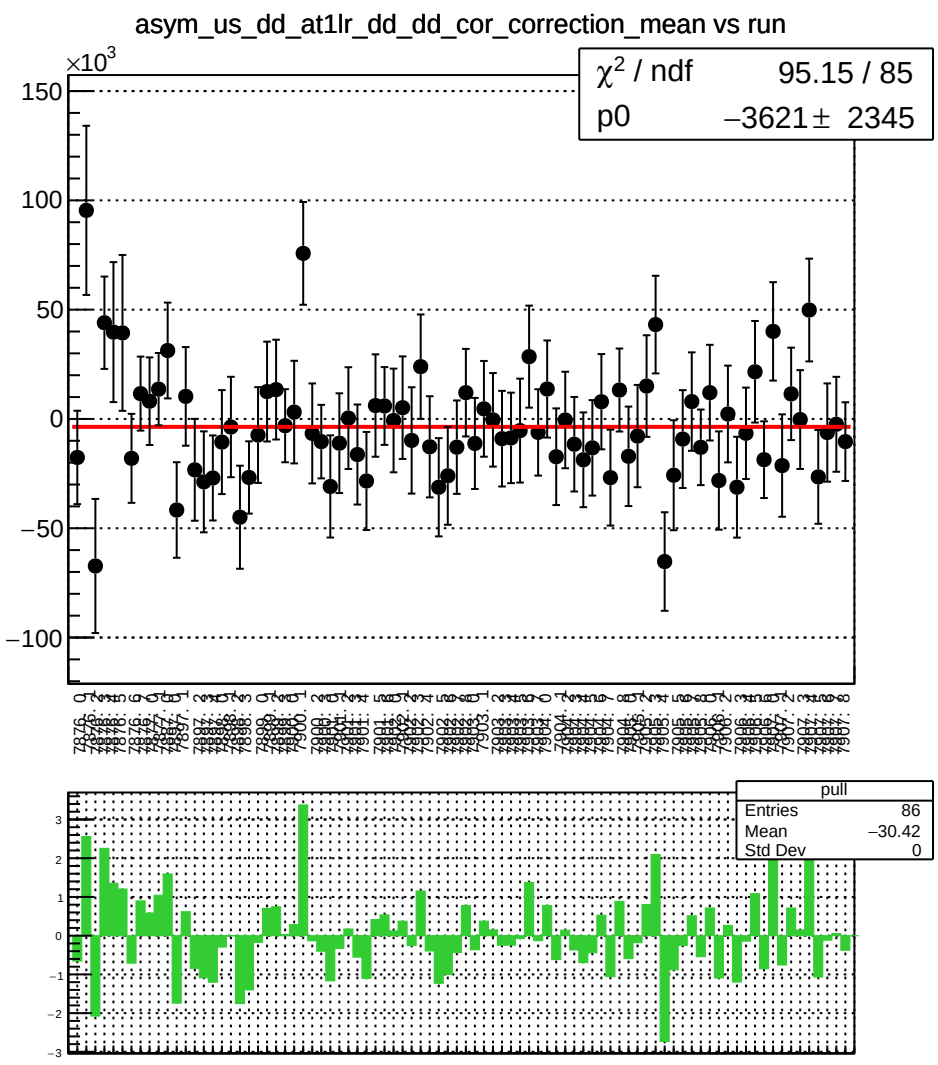

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 95.15 / 85
p0 −3621 ± 2345
150
100
50
0
−50
−100
pull
Entries 86
Mean −30.43
Std Dev 0
3
2
1
0
−1
−2
−3

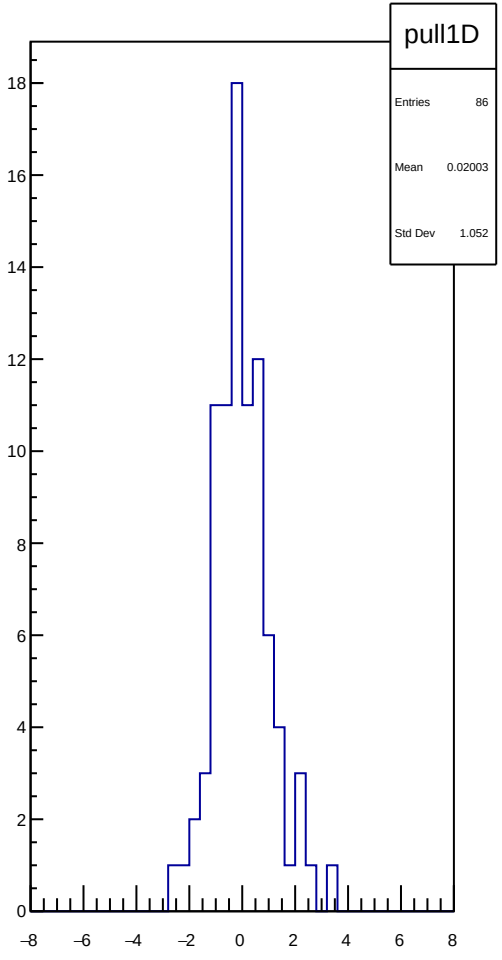

pull1D
Entries 86
Mean 0.02004
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

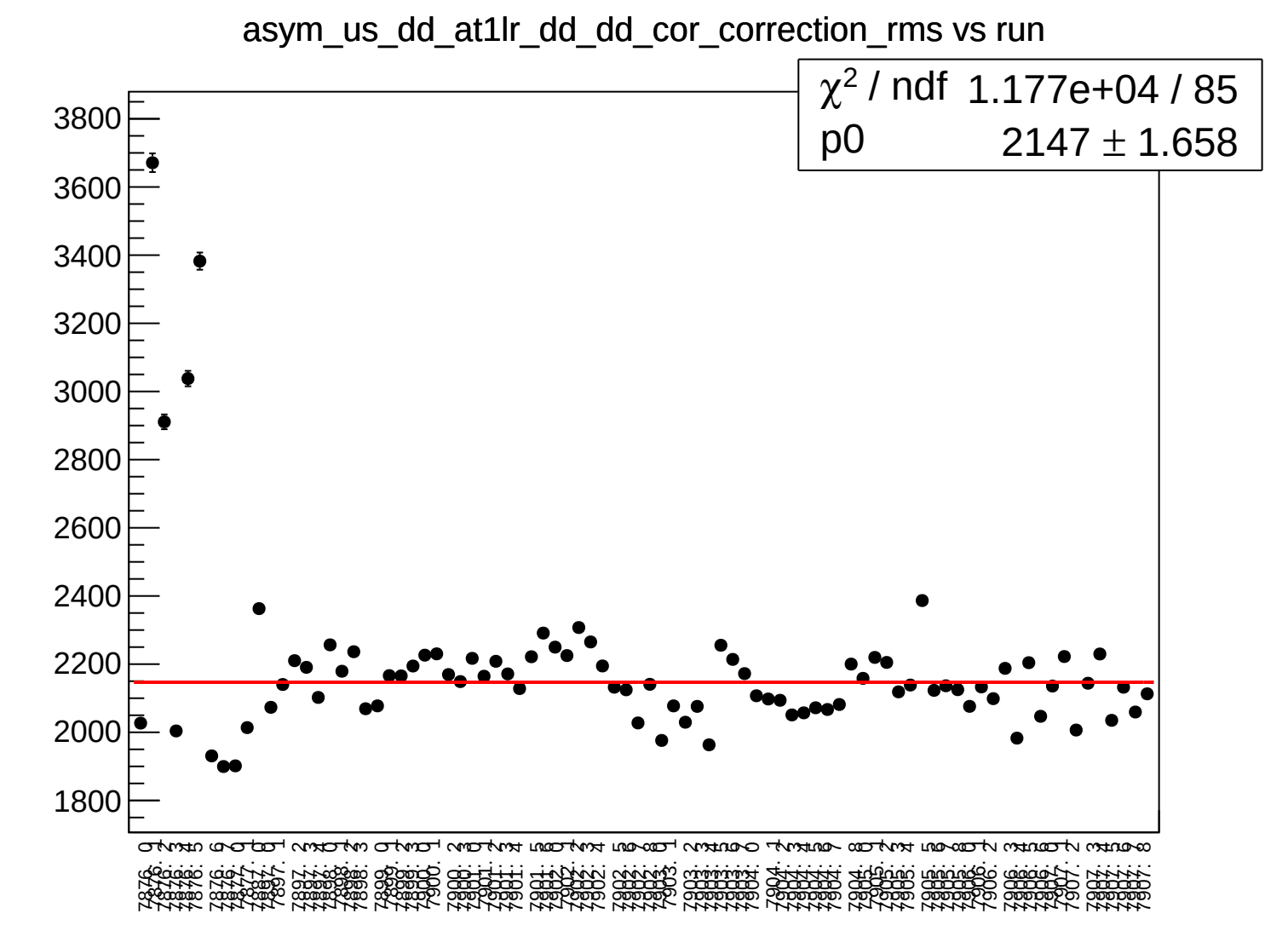

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.177e+04 / 85
p0 2147 ± 1.658
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

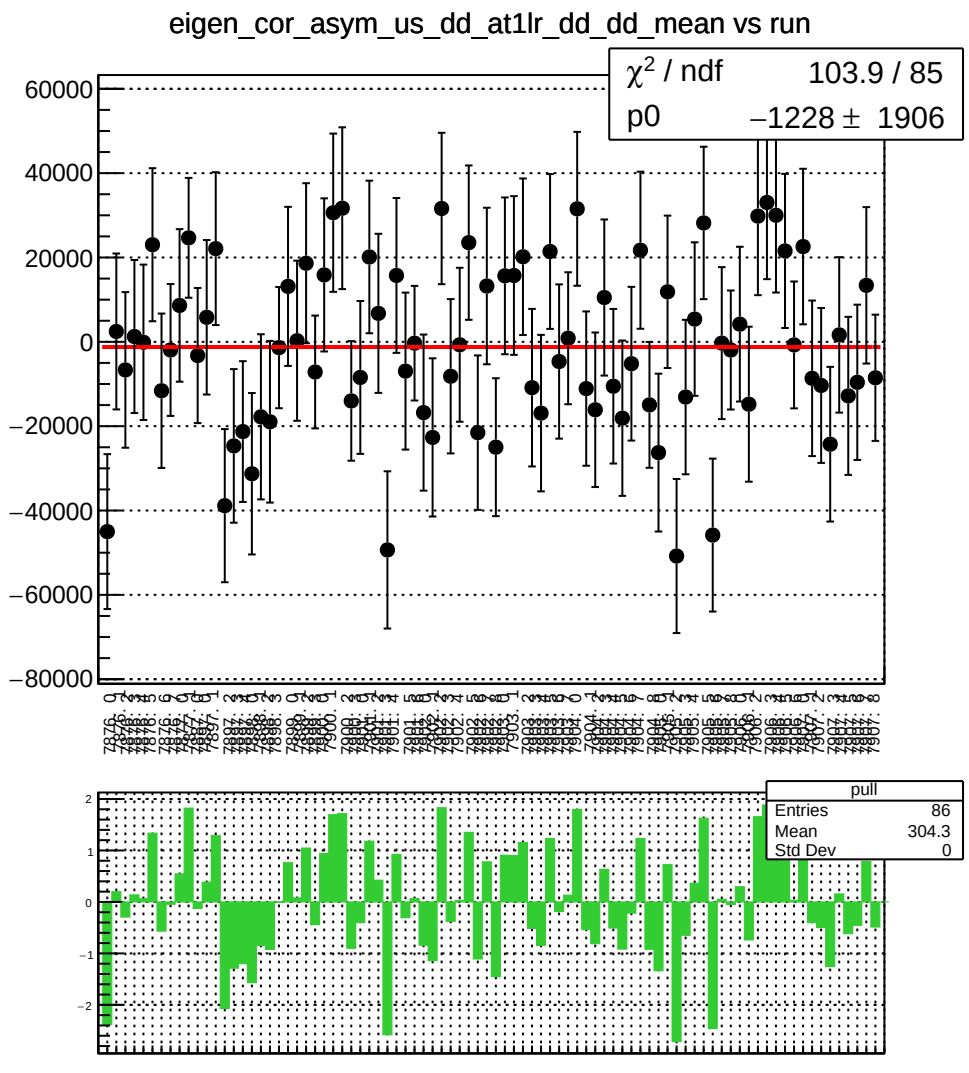

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.9 / 85
p0 −1228 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 304.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.004871
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

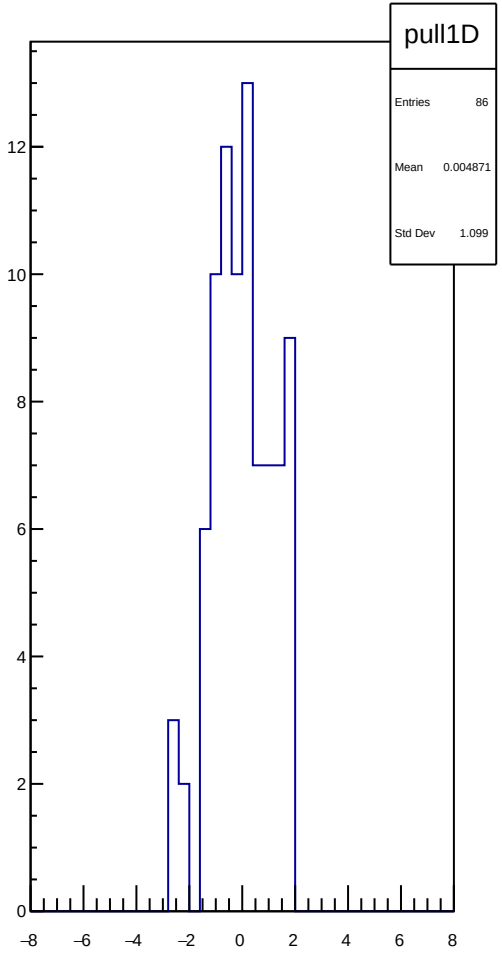

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 450.3 / 85
p0 1751 ± 1.348
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

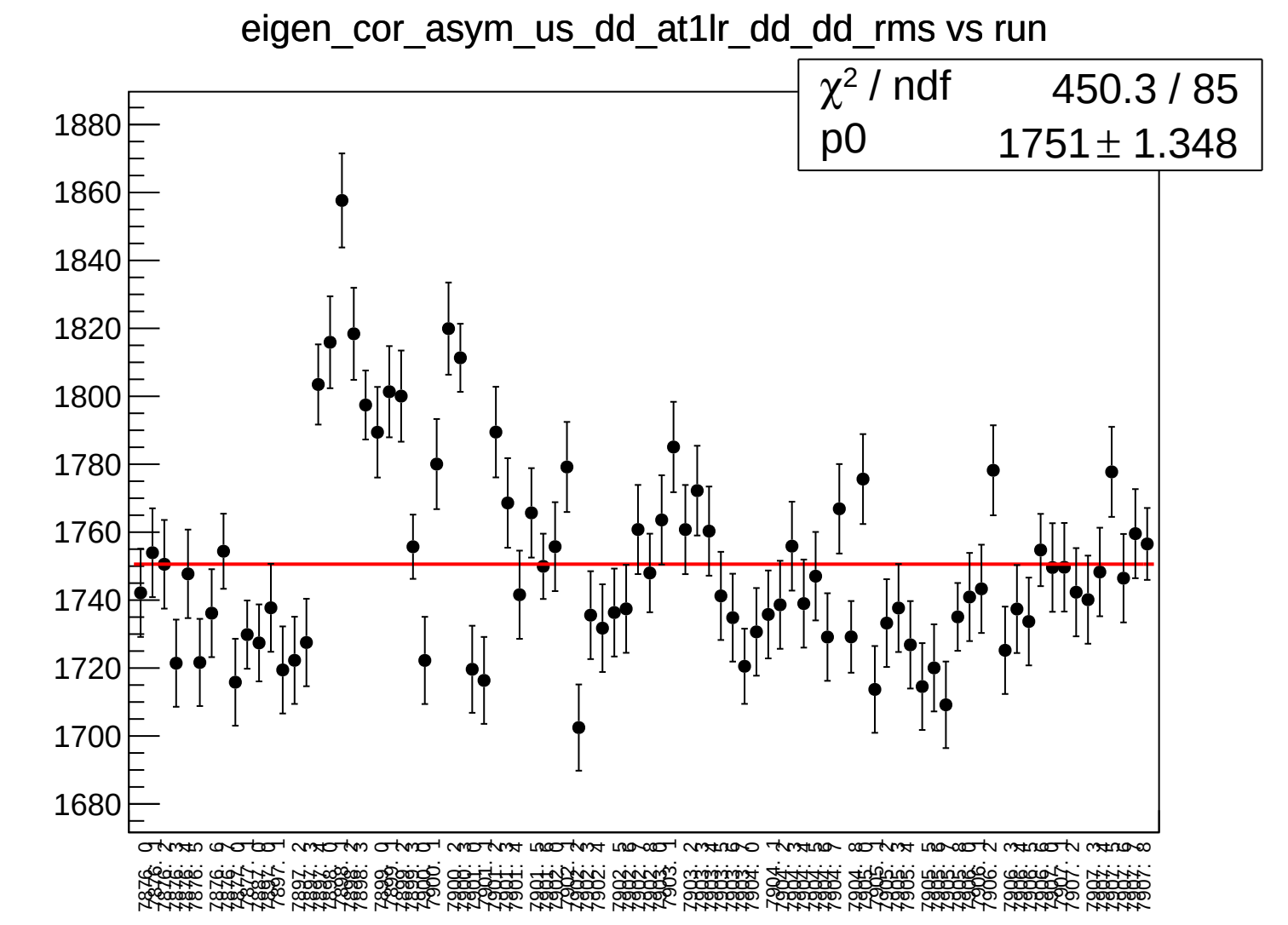

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.15 / 85
p0 −3621 ± 2345
pull
Entries 86
Mean −30.42
Std Dev 0

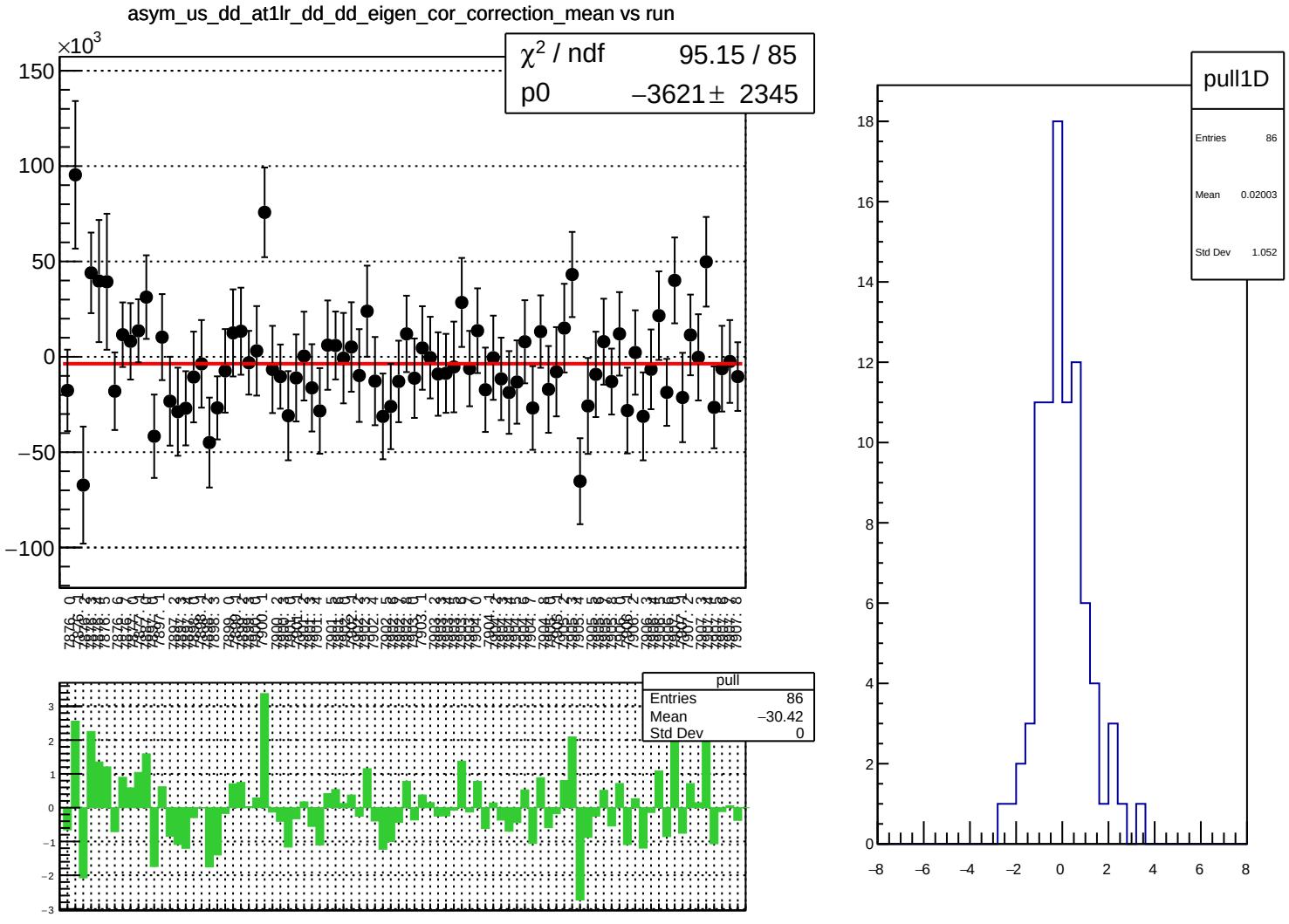

pull1D
Entries 86
Mean 0.02003
Std Dev 1.052

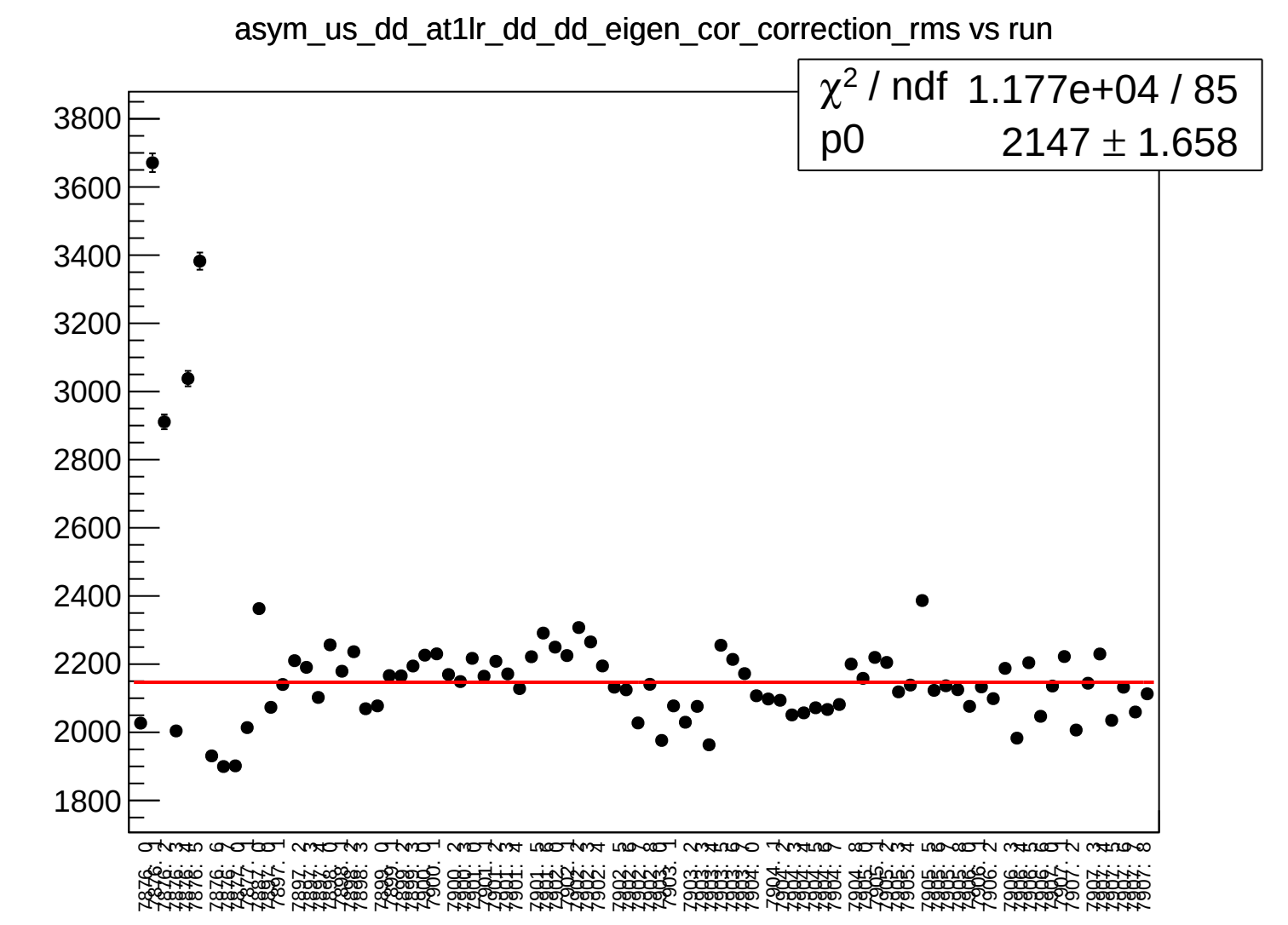

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.177e+04 / 85
p0 2147 ± 1.658
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

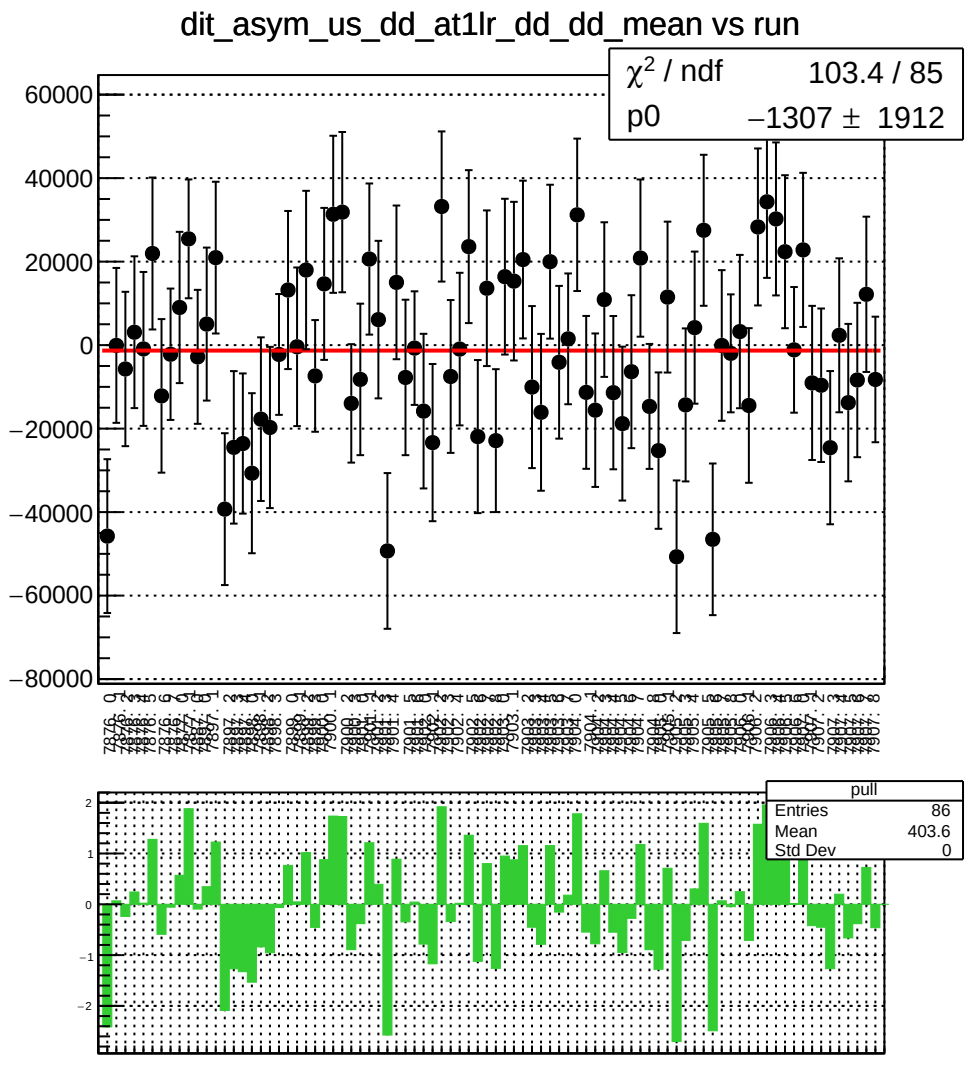

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.9 / 85
p0 −1228 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 304.3
Std Dev 0
2
1
0
−1
−2

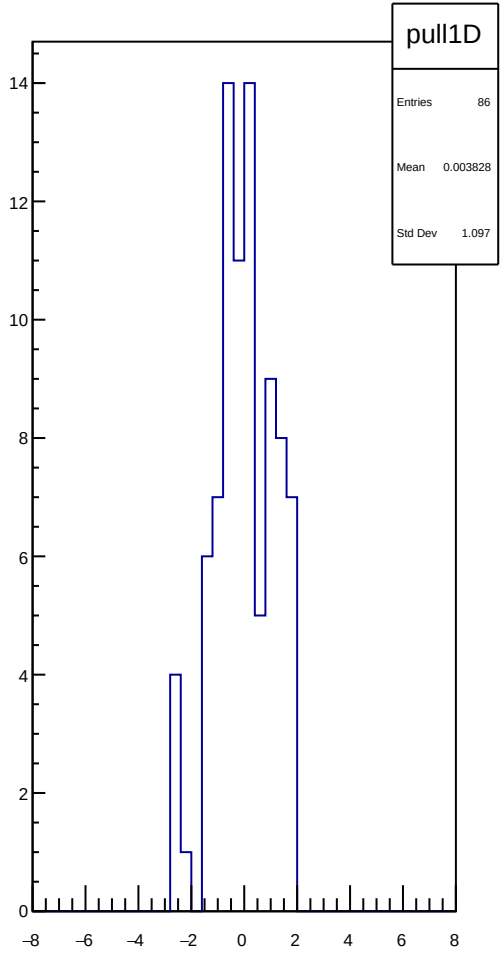

pull1D
Entries 86
Mean 0.004871
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

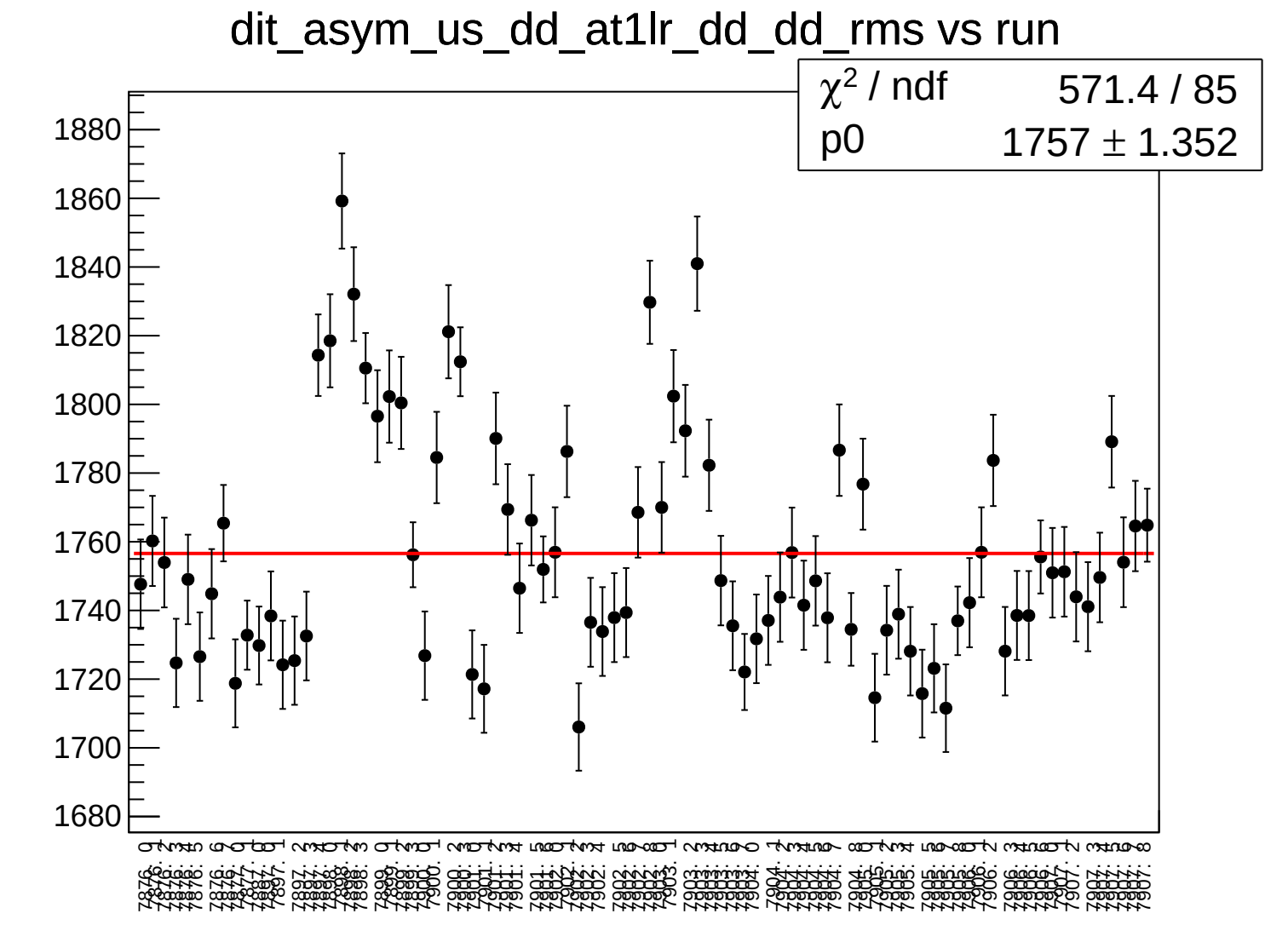

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 450.3 / 85
p0 1751 ± 1.348
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

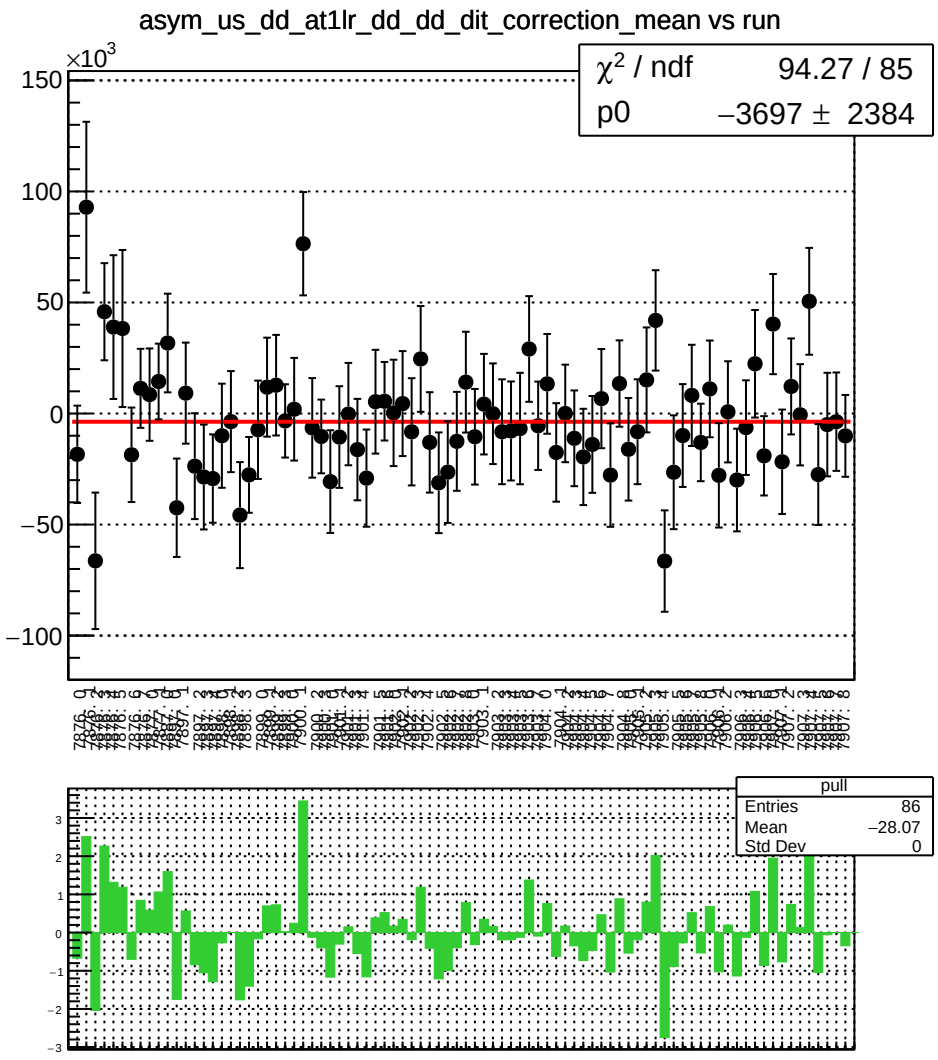

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.15 / 85
p0 −3621 ± 2345
150
100
50
0
−50
−100
pull
Entries 86
Mean −30.42
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.02003
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

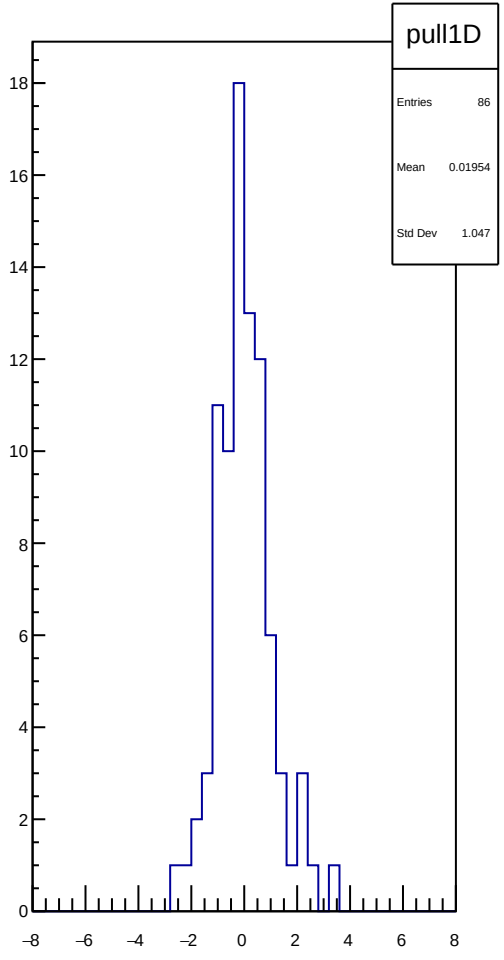

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.177e+04 / 85
p0 2147 ± 1.658
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

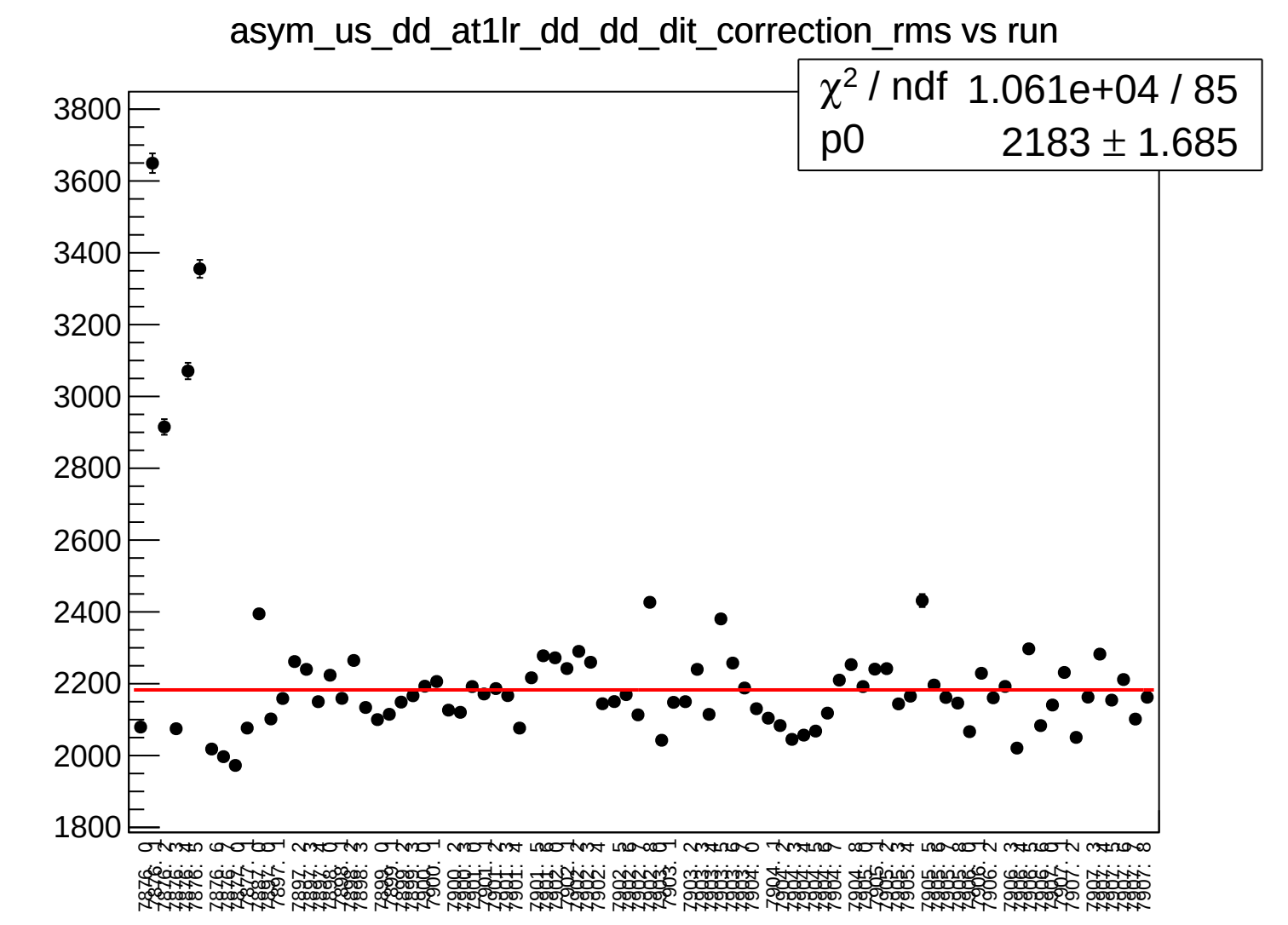

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.4 / 85
p0 −1307 ± 1912
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 403.6
Std Dev 0
2
1
0
−1
−2

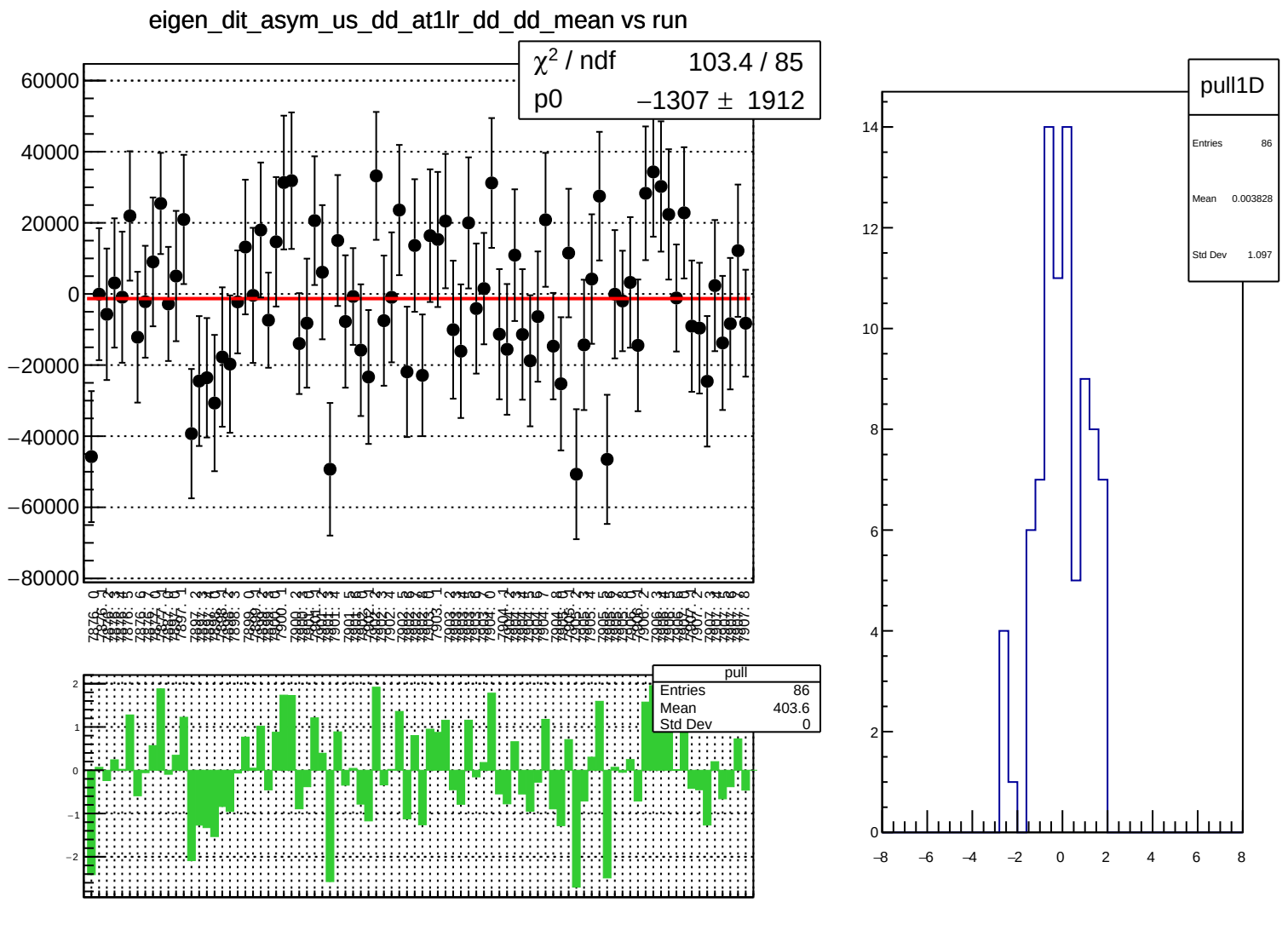

pull1D
Entries 86
Mean 0.003828
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

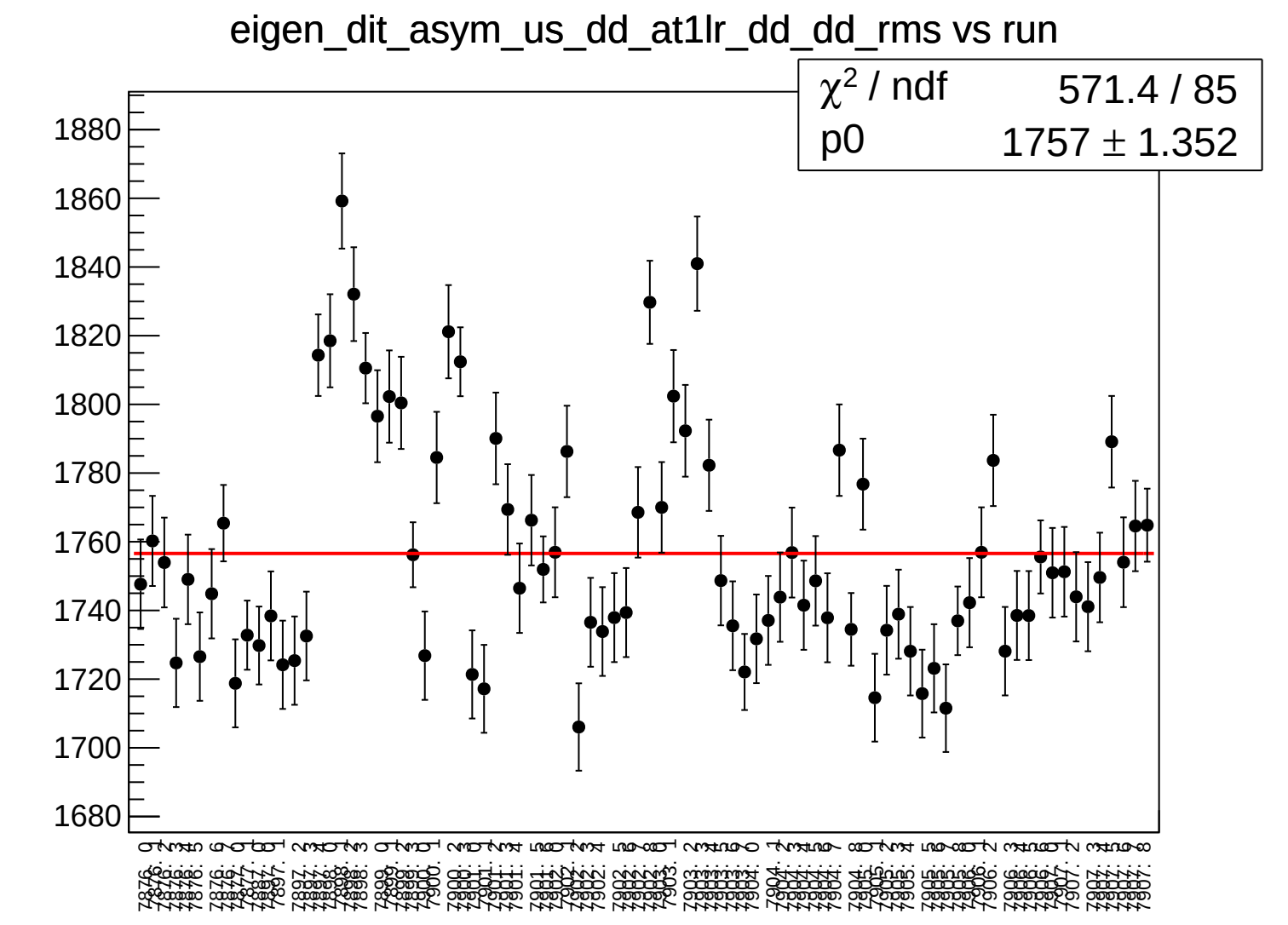

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 571.4 / 85
p0 1757 ± 1.352
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

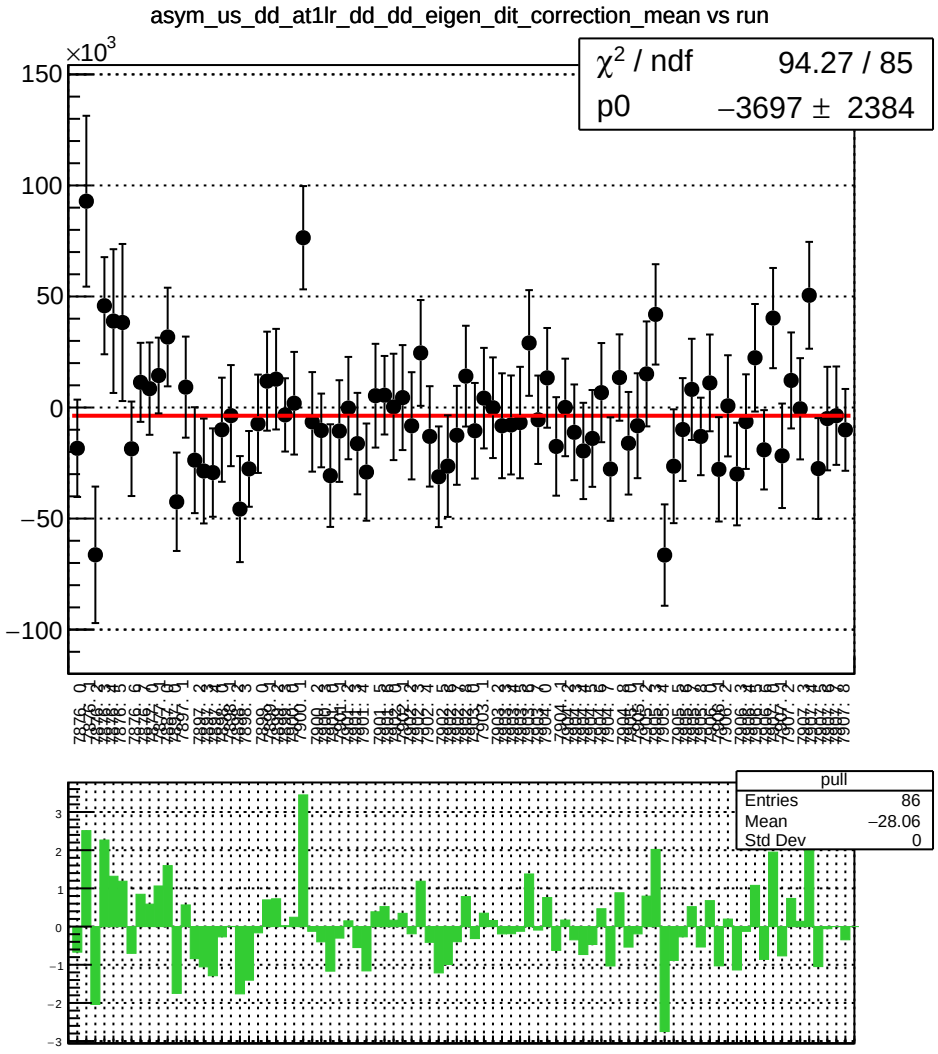

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 94.27 / 85
p0 −3697 ± 2384
150
100
50
0
−50
−100
pull
Entries 86
Mean −28.07
Std Dev 0
3
2
1
0
−1
−2
−3

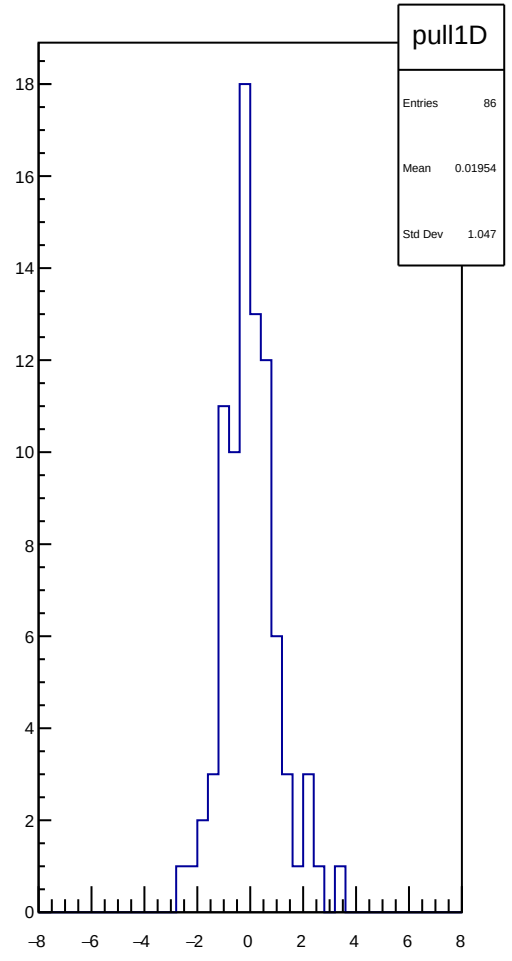

pull1D
Entries 86
Mean 0.01954
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

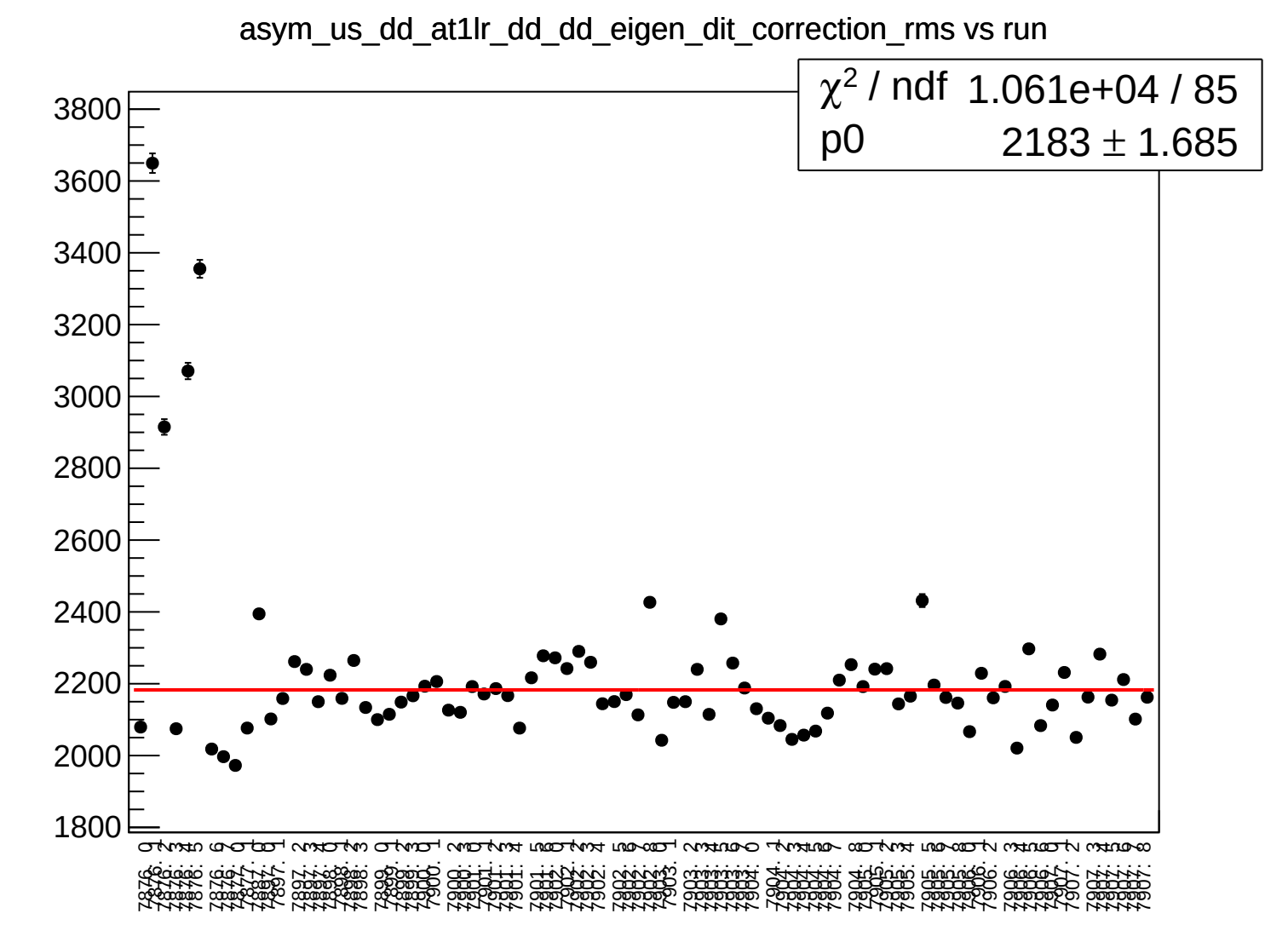

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.061e+04 / 85
p0 2183 ± 1.685
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

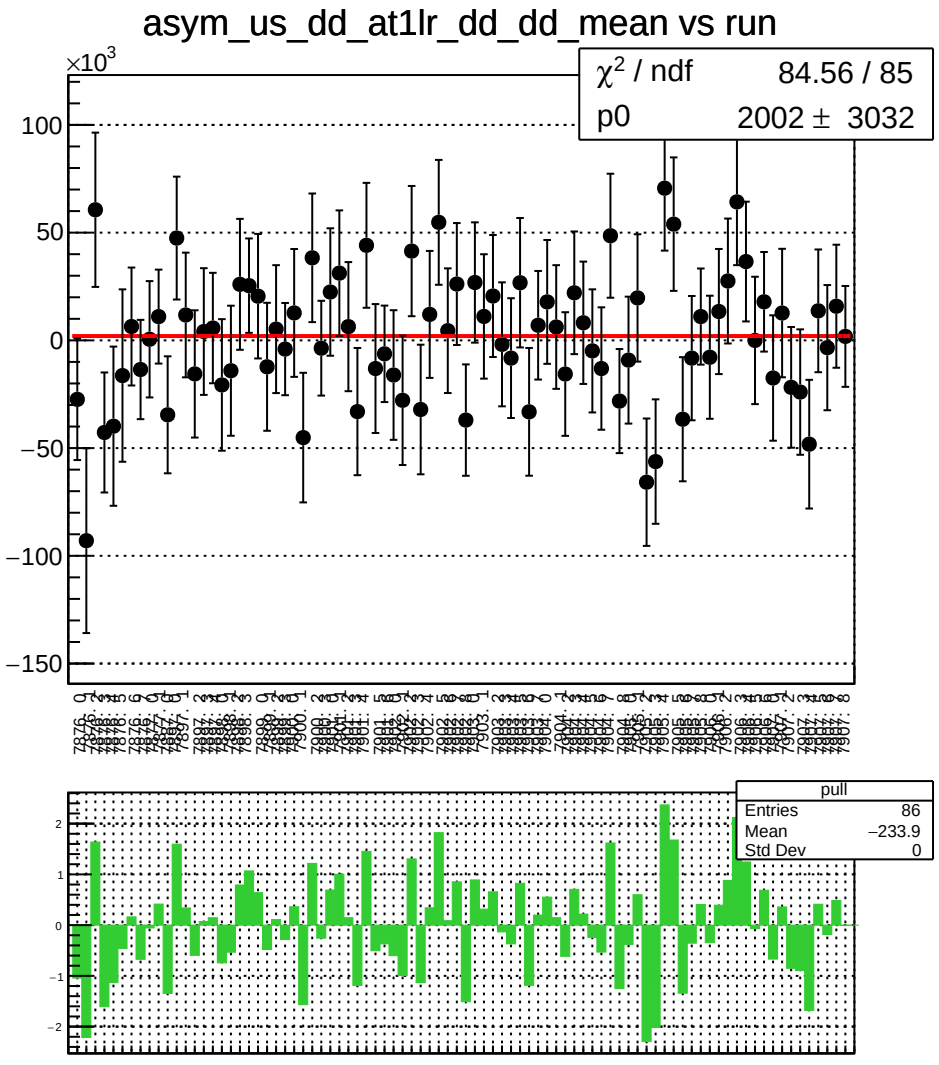

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.4 / 85
p0 −1307 ± 1912
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 403.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.003828
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

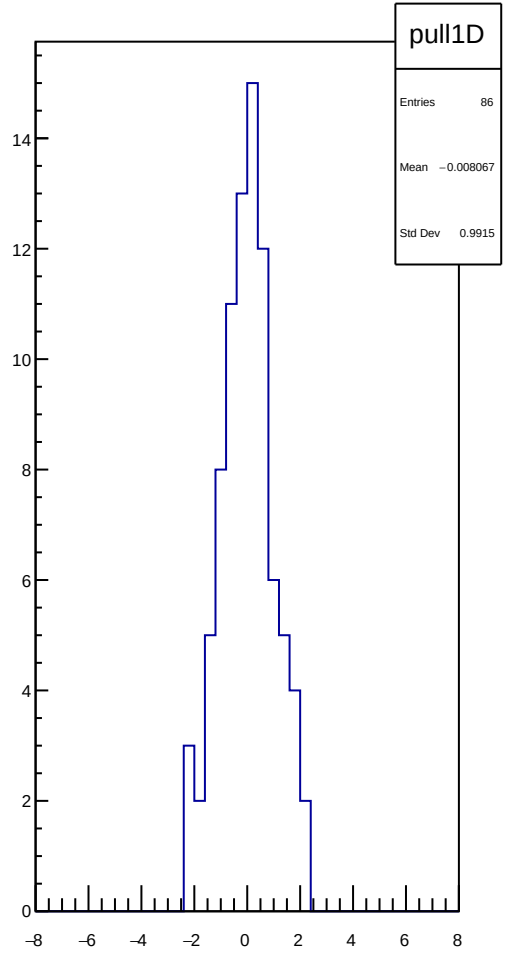

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 571.4 / 85
p0 1757 ± 1.352
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

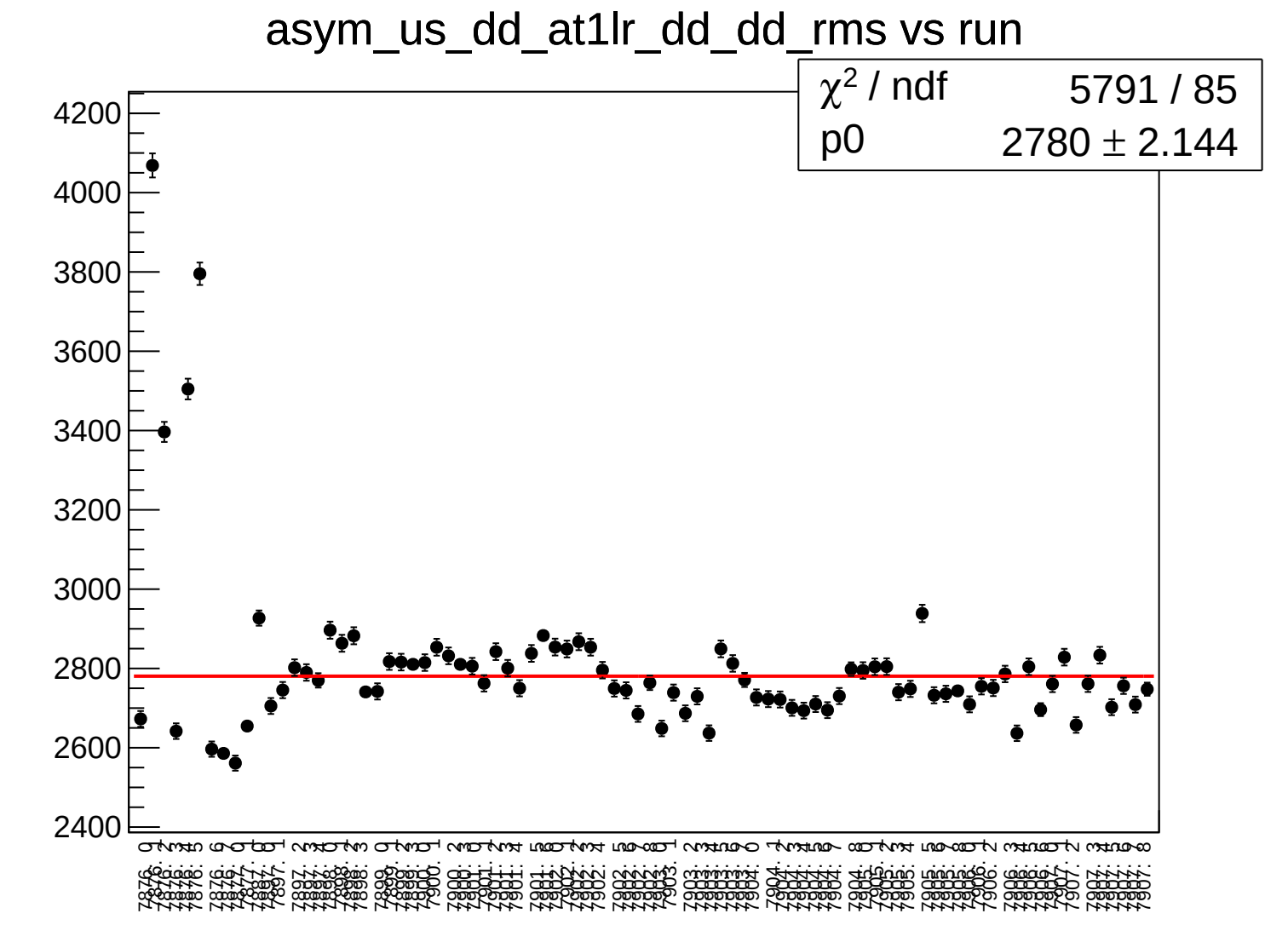

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.27 / 85
p0 −3697 ± 2384
×10³
150
100
50
0
−50
−100
pull
Entries 86
Mean −28.06
Std Dev 0
3
2
1
0
−1
−2
−3

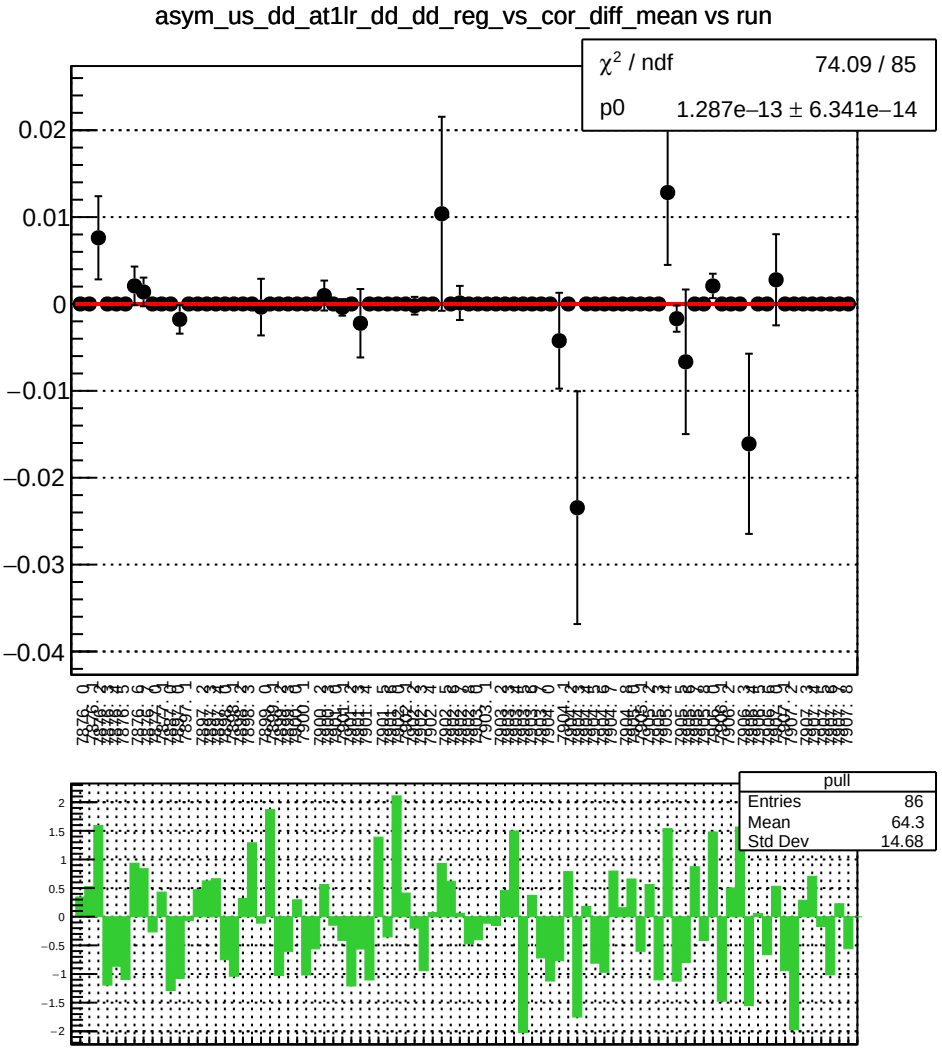

pull1D
Entries 86
Mean 0.01954
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

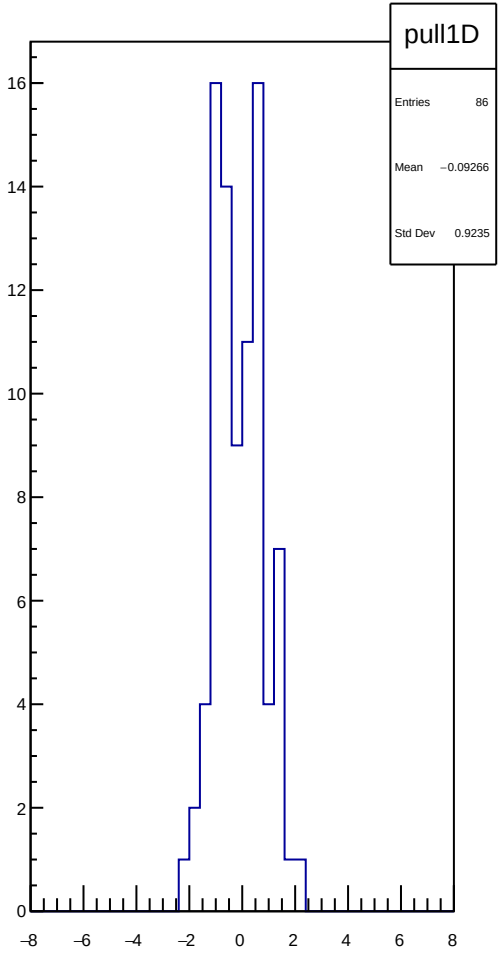

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.061e+04 / 85
p0 2183 ± 1.685
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

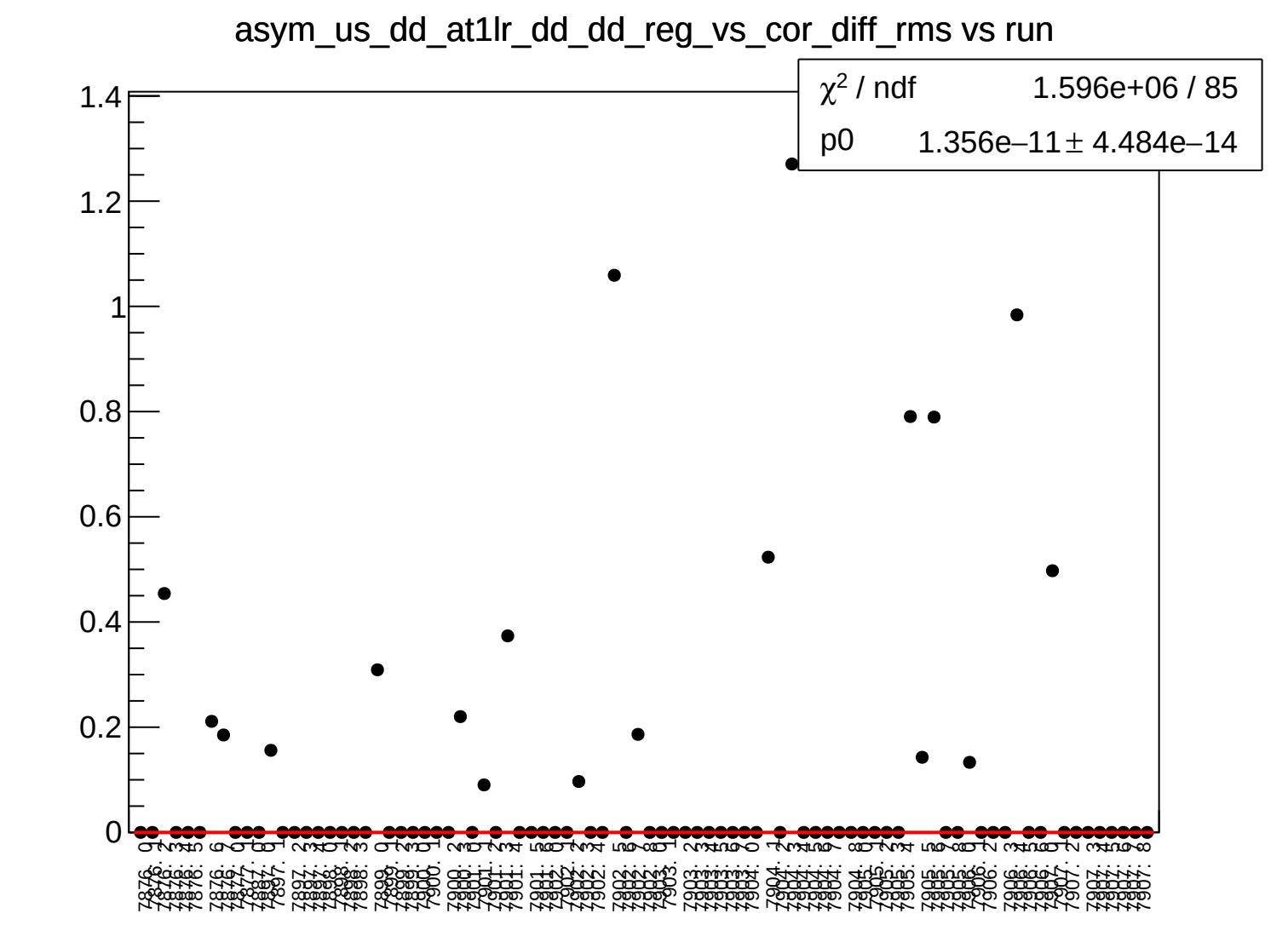

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 84.56 / 85
p0 2002 ± 3032
100
50
0
−50
−100
−150
pull
Entries 86
Mean −233.9
Std Dev 0
2
1
0
−1
−2

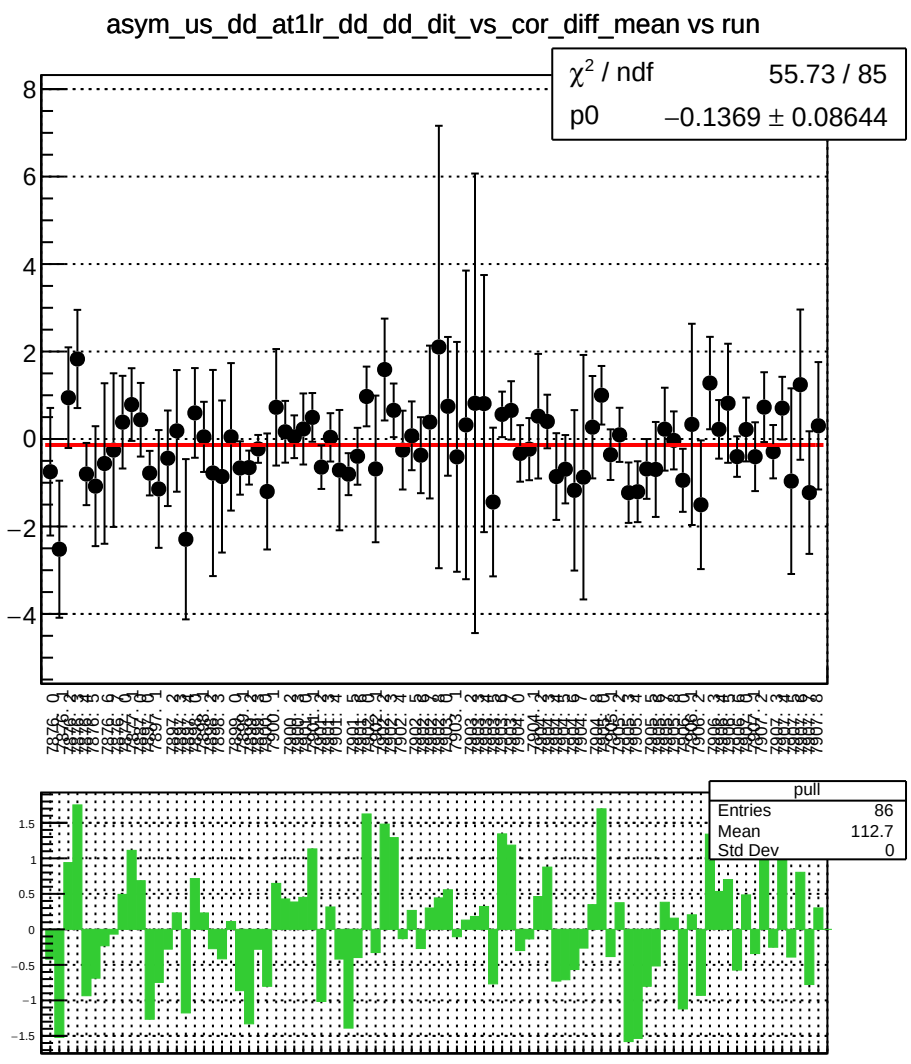

pull1D
Entries 86
Mean −0.008067
Std Dev 0.9915
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

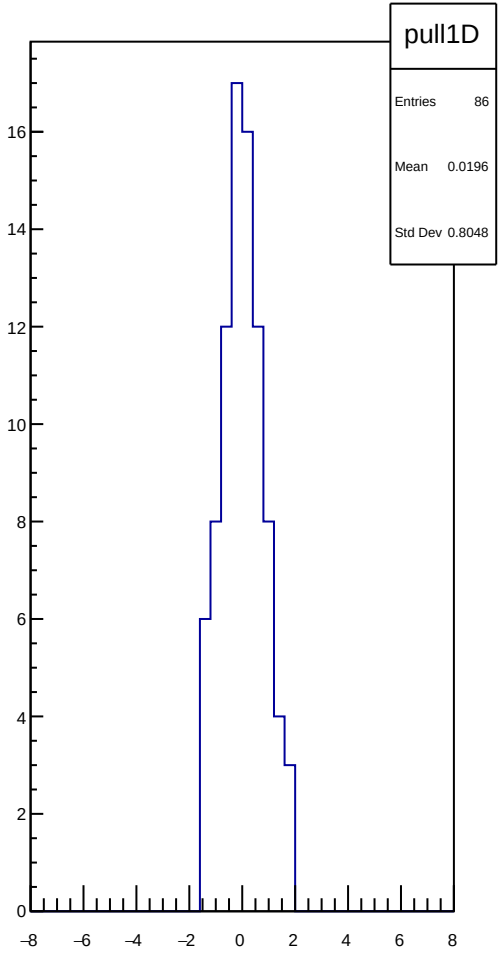

asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 5791 / 85
p0 2780 ± 2.144
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

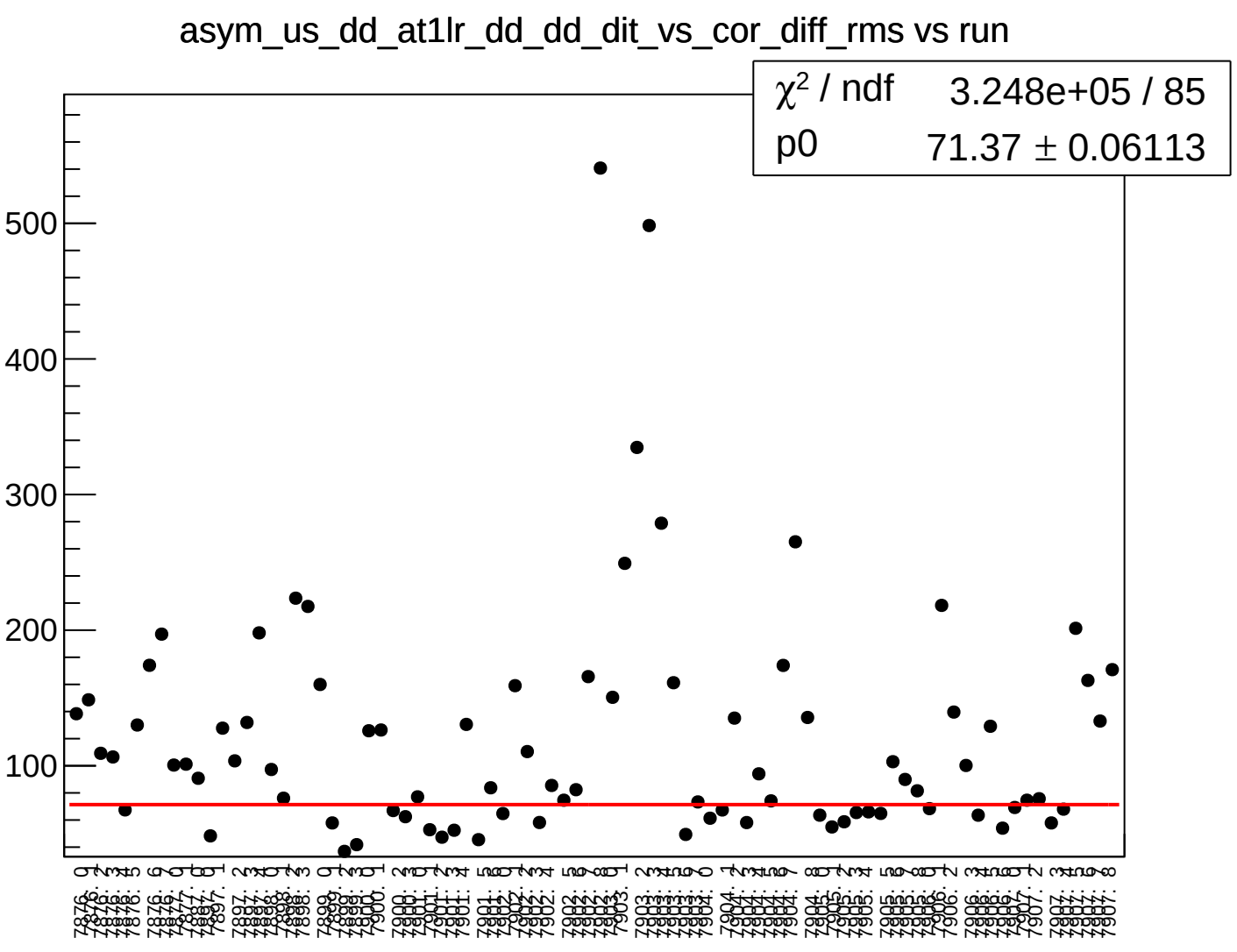

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.09 / 85
p0 1.287e−13 ± 6.341e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 86
Mean 64.3
Std Dev 14.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

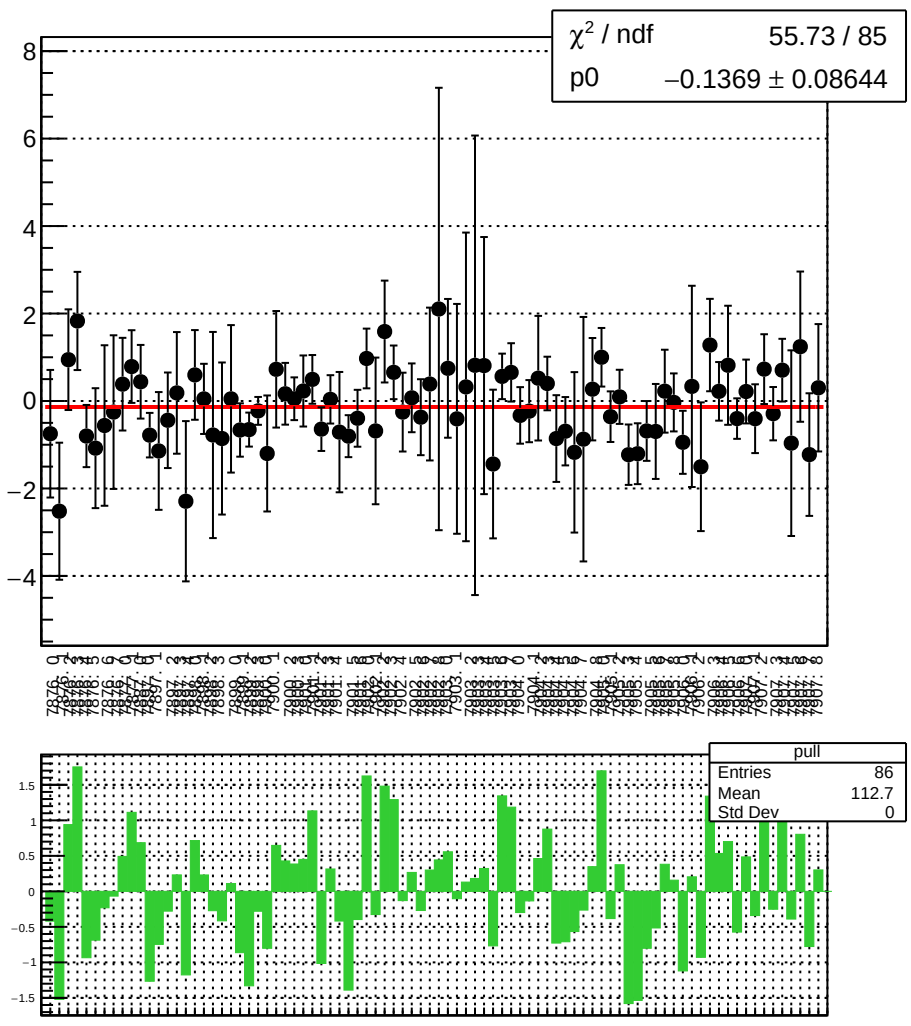

pull1D
Entries 86
Mean −0.09266
Std Dev 0.9235
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

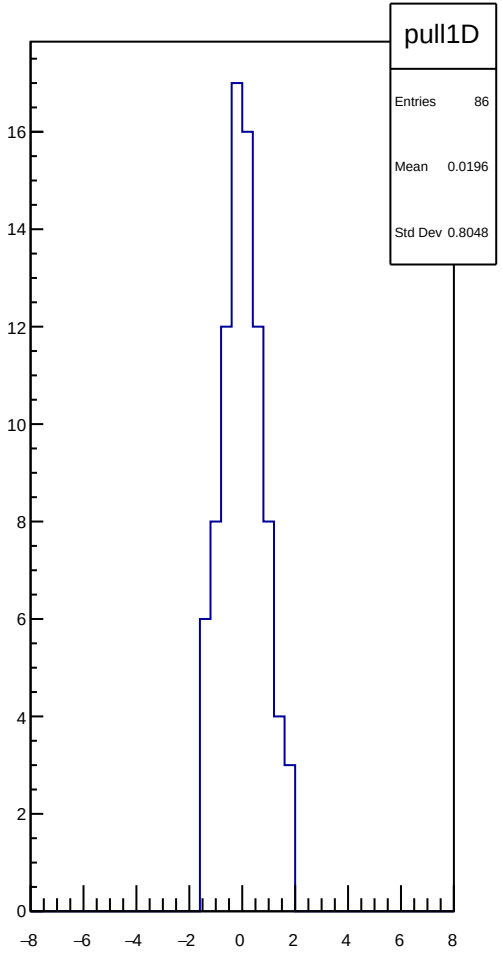

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.596e+06 / 85
p0 1.356e−11 ± 4.484e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

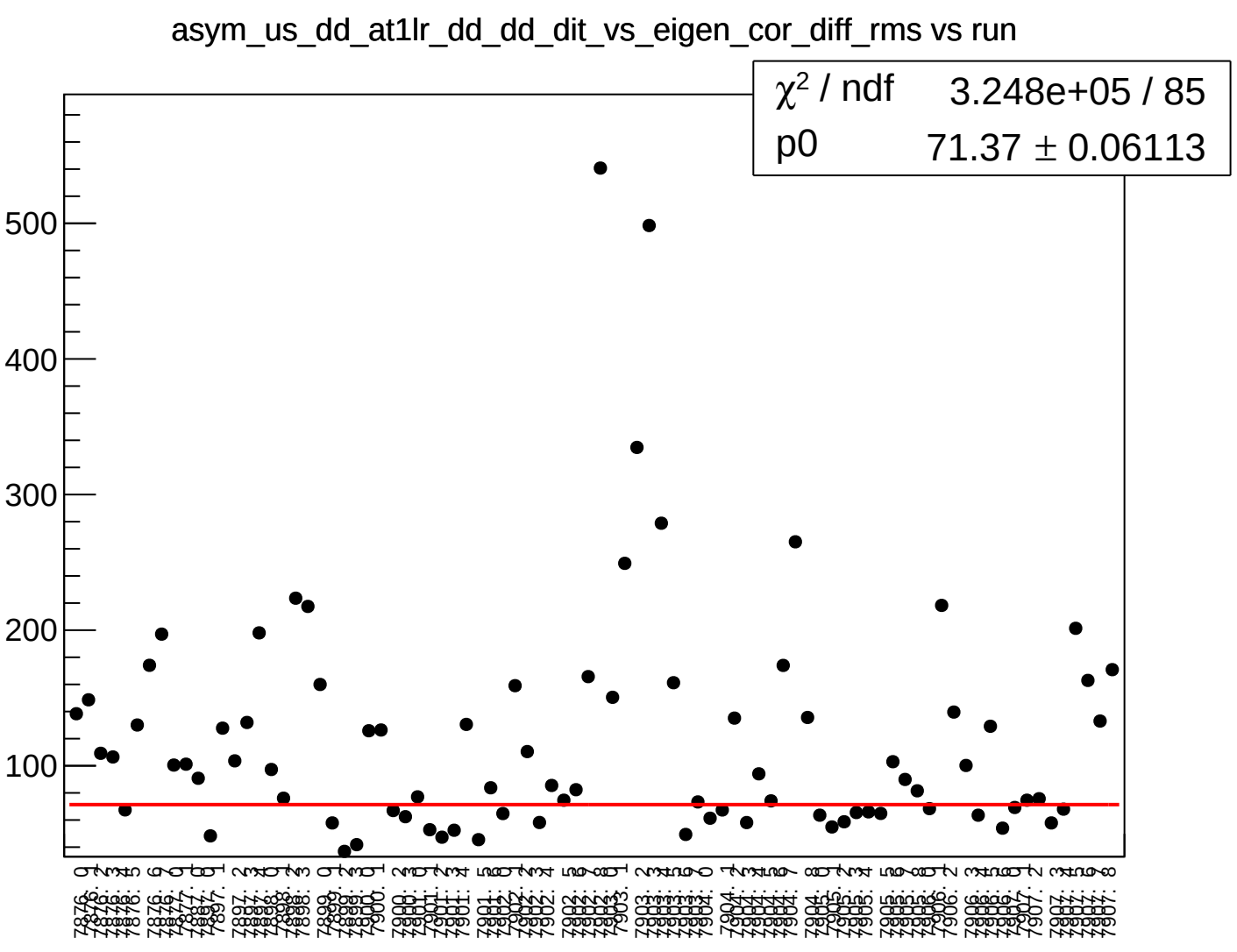

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 55.73 / 85
p0 −0.1369 ± 0.08644
pull
Entries 86
Mean 112.7
Std Dev 0

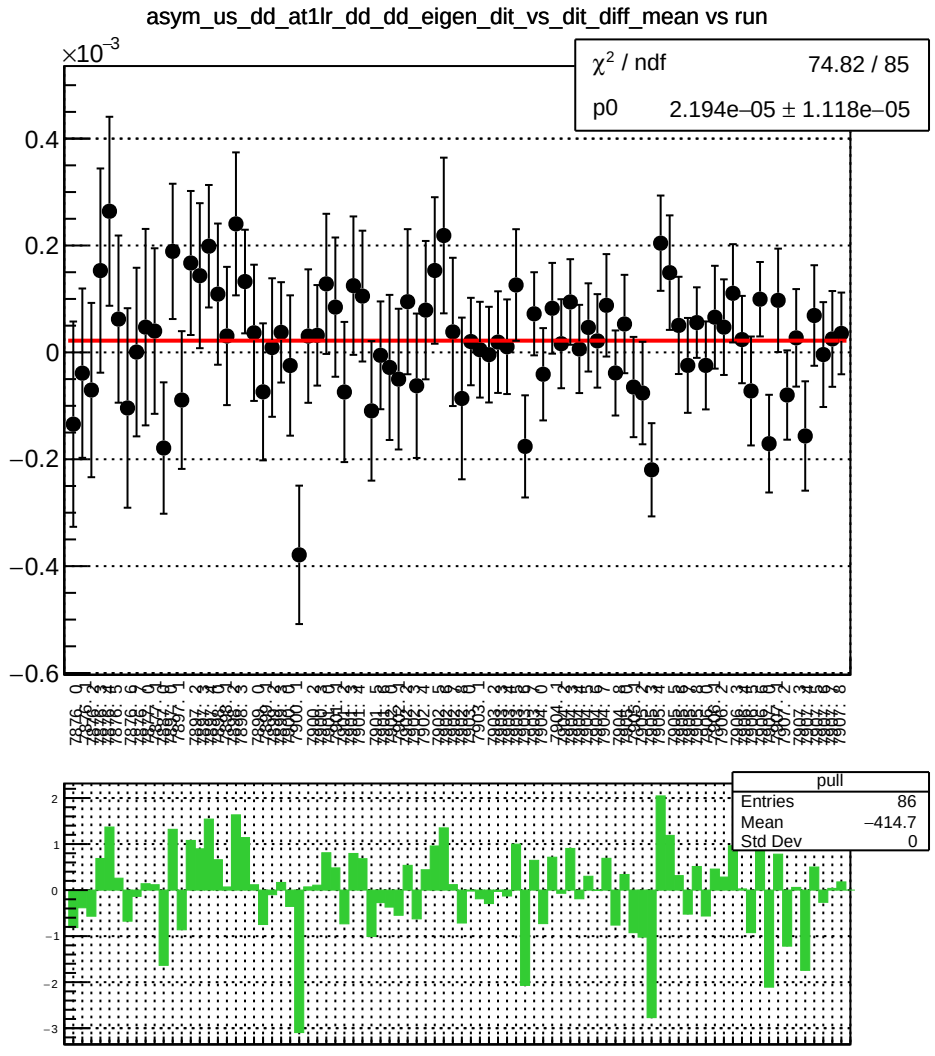

pull1D
Entries 86
Mean 0.0196
Std Dev 0.8048

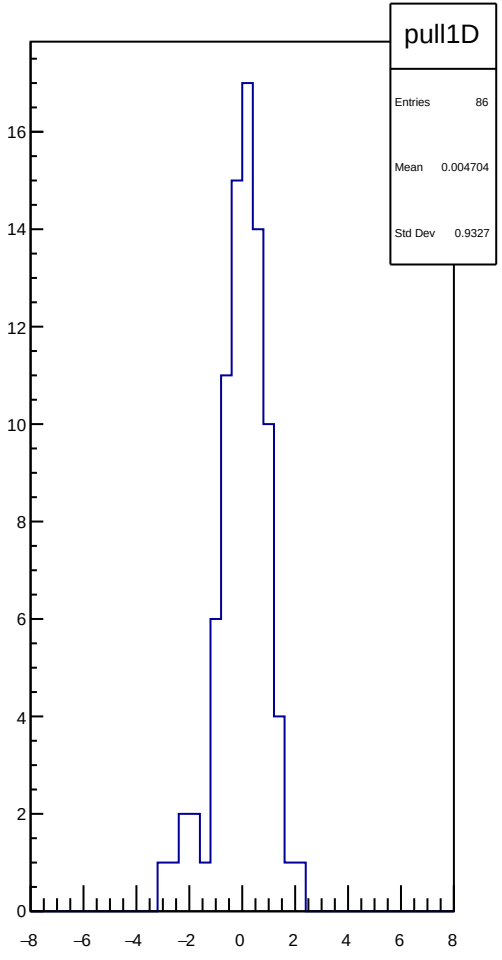

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.248e+05 / 85
p0 71.37 ± 0.06113
500
400
300
200
100

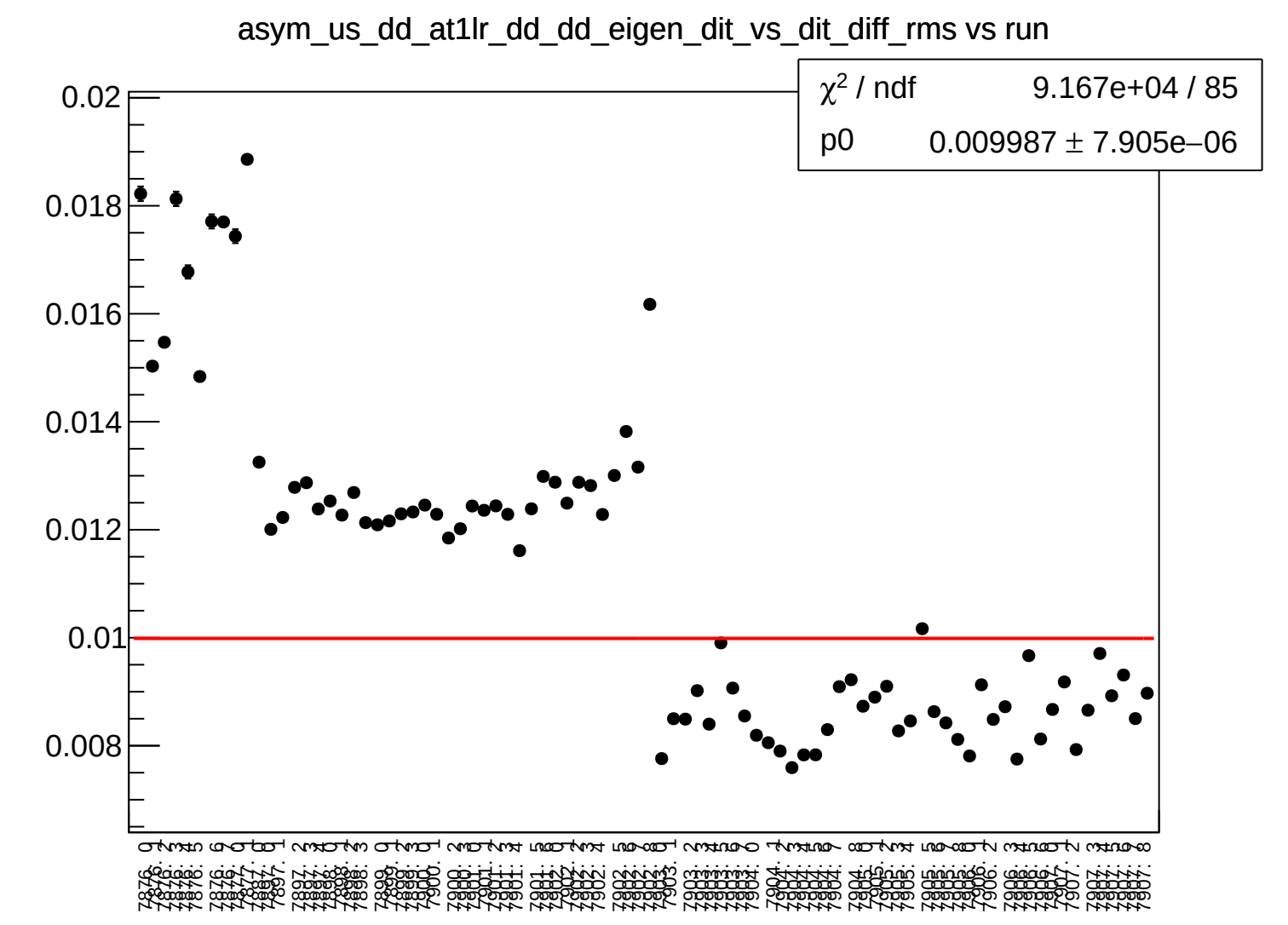

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.73 / 85
p0 −0.1369 ± 0.08644
pull
Entries 86
Mean 112.7
Std Dev 0

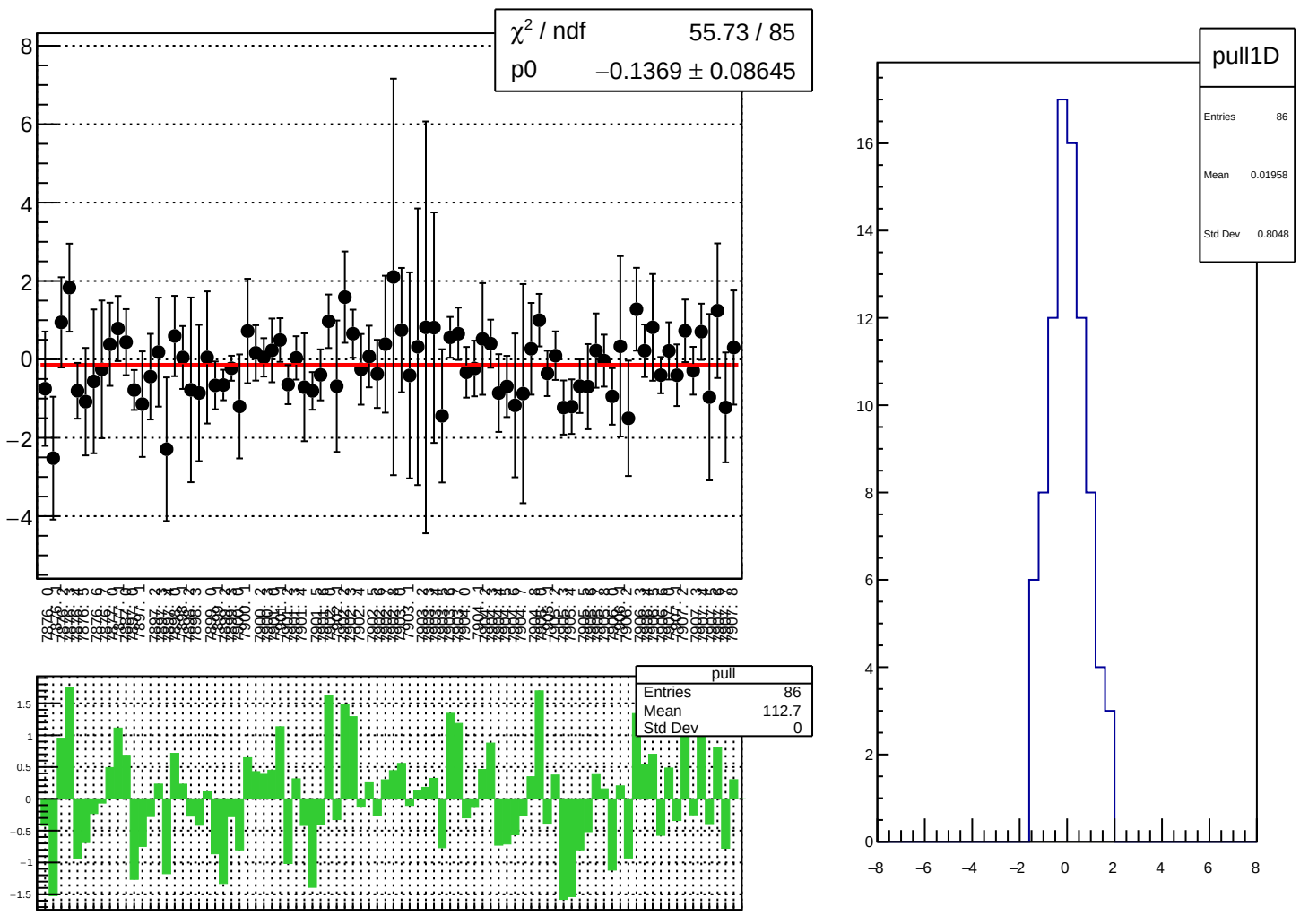

pull1D
Entries 86
Mean 0.0196
Std Dev 0.8048

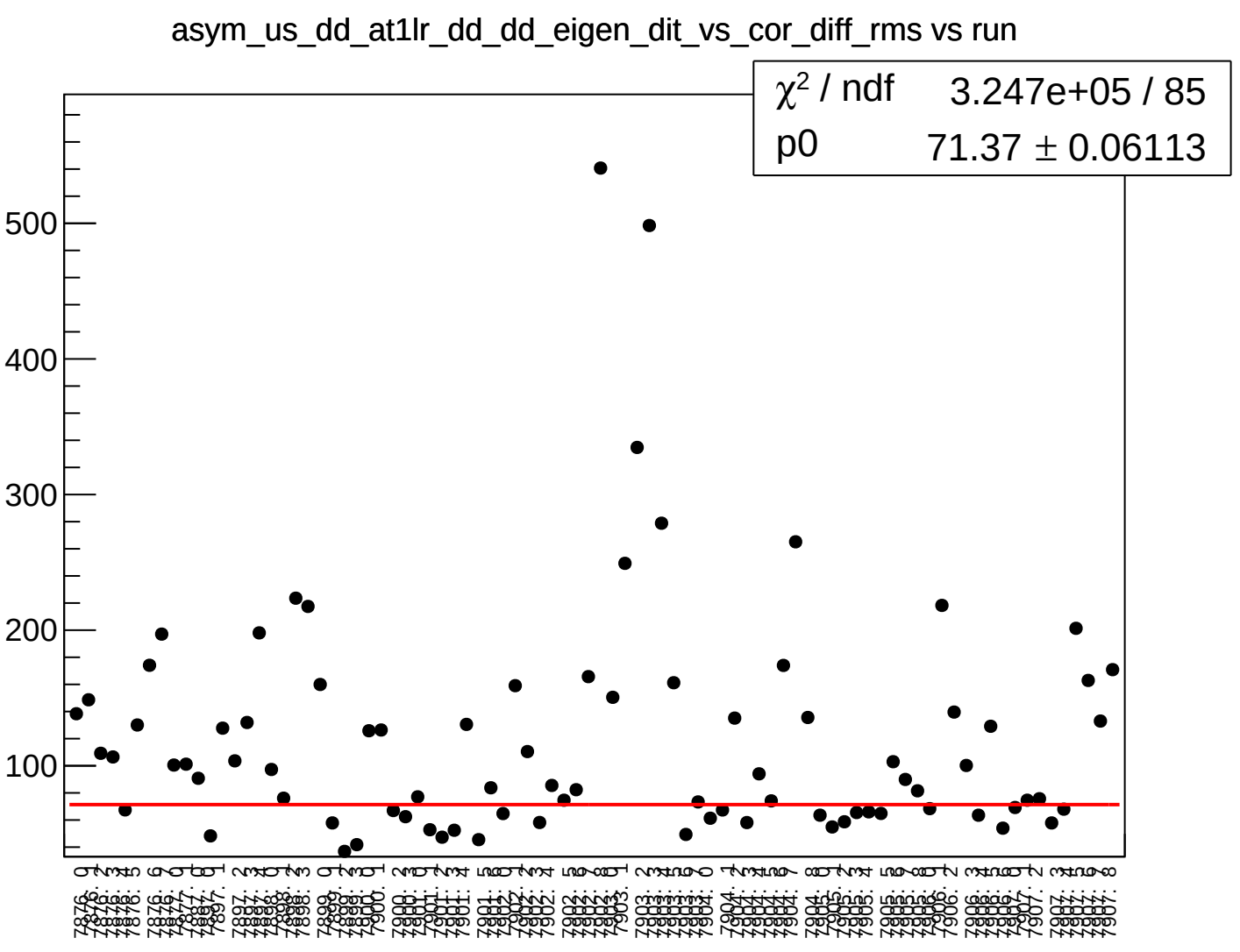

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.248e+05 / 85
p0 71.37 ± 0.06113
500
400
300
200
100

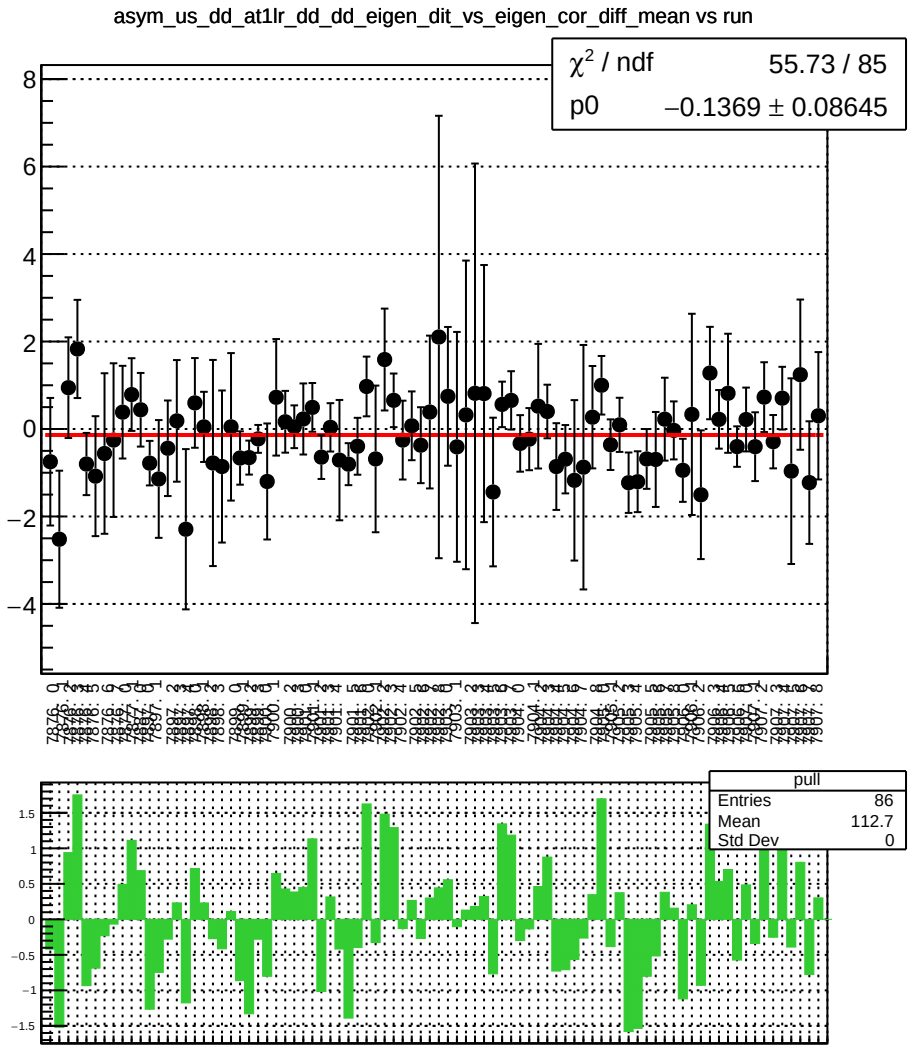

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 74.82 / 85
p0 2.194e−05 ± 1.118e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 86
Mean −414.7
Std Dev 0
2
1
0
−1
−2
−3

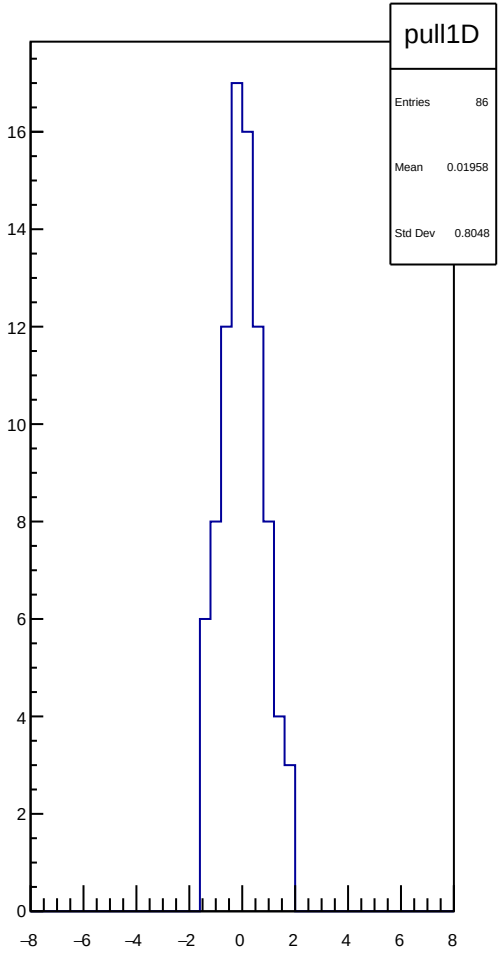

pull1D
Entries 86
Mean 0.004704
Std Dev 0.9327
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

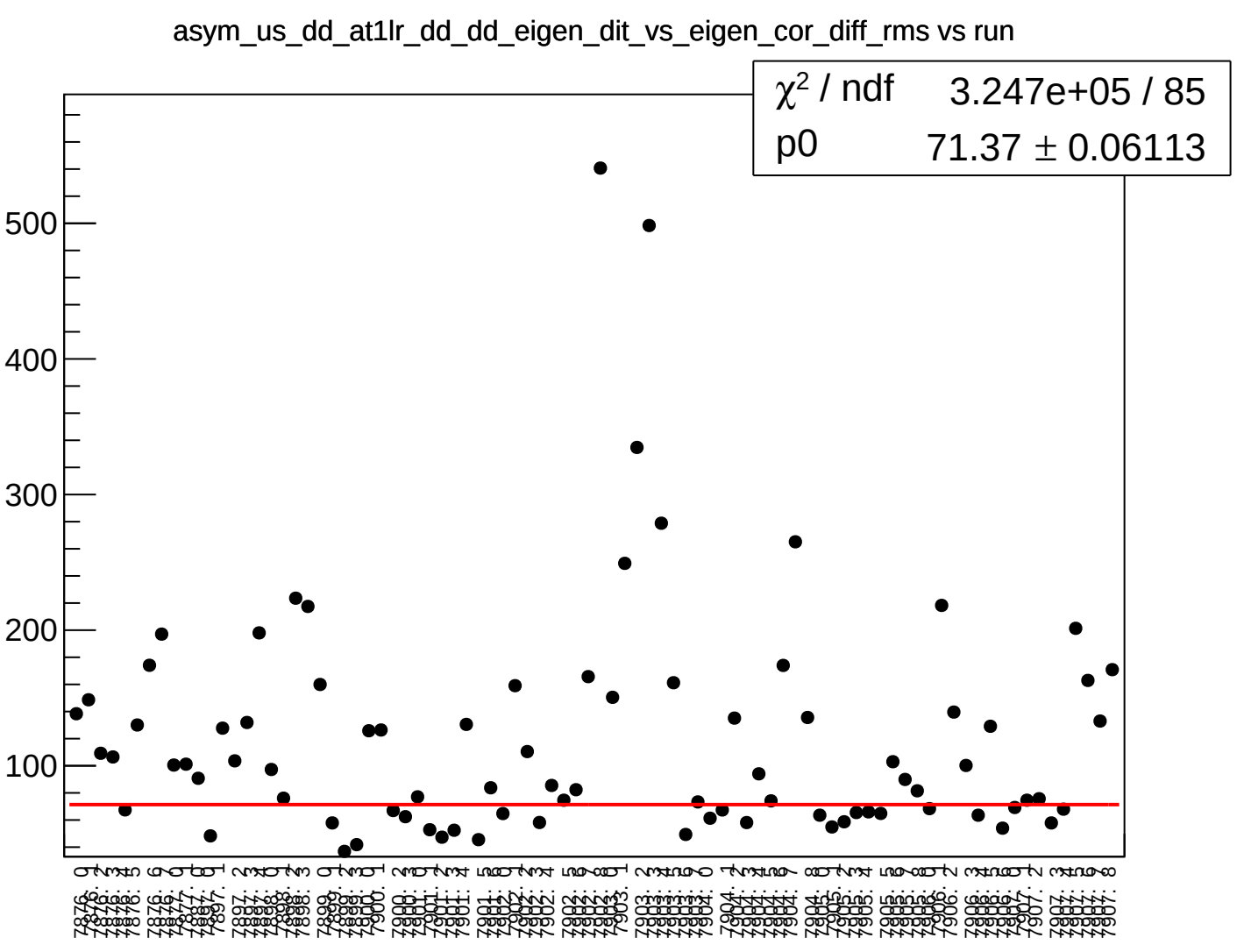

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.167e+04 / 85
p0 0.009987 ± 7.905e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

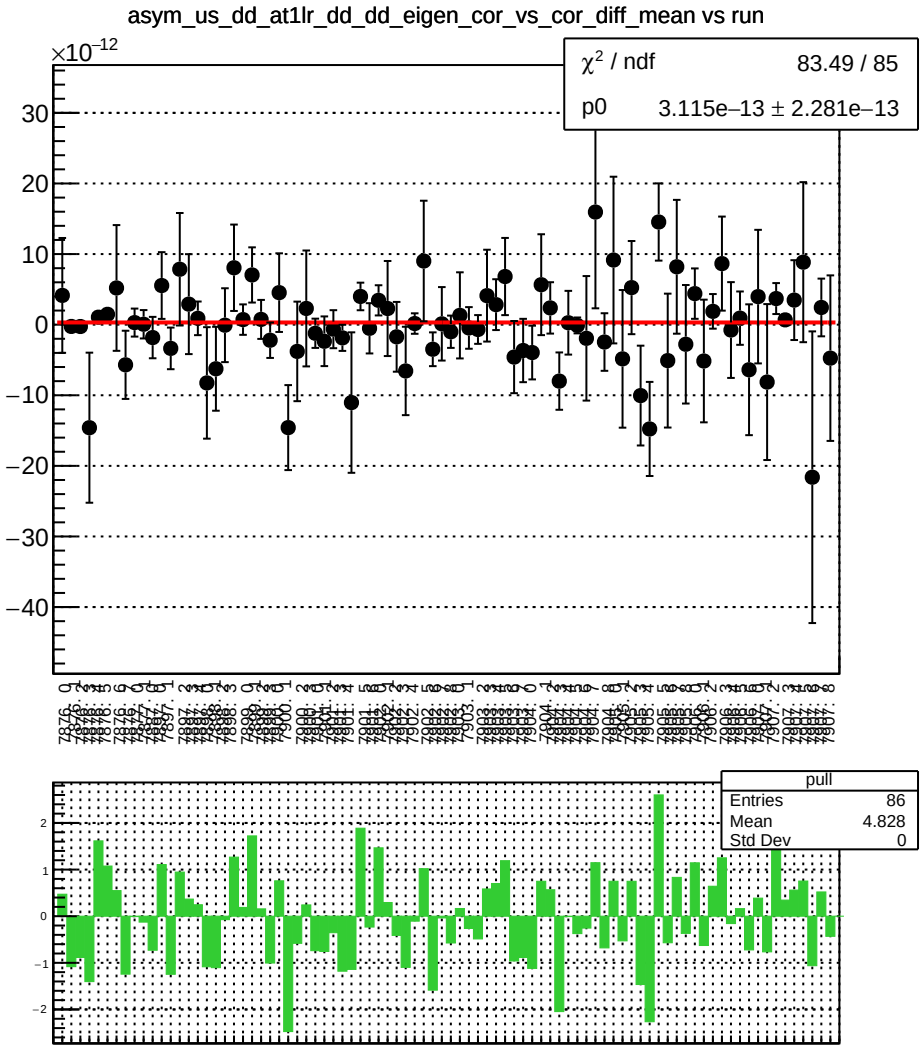

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 55.73 / 85
p0 −0.1369 ± 0.08645
pull
Entries 86
Mean 112.7
Std Dev 0
pull1D
Entries 86
Mean 0.01958
Std Dev 0.8048

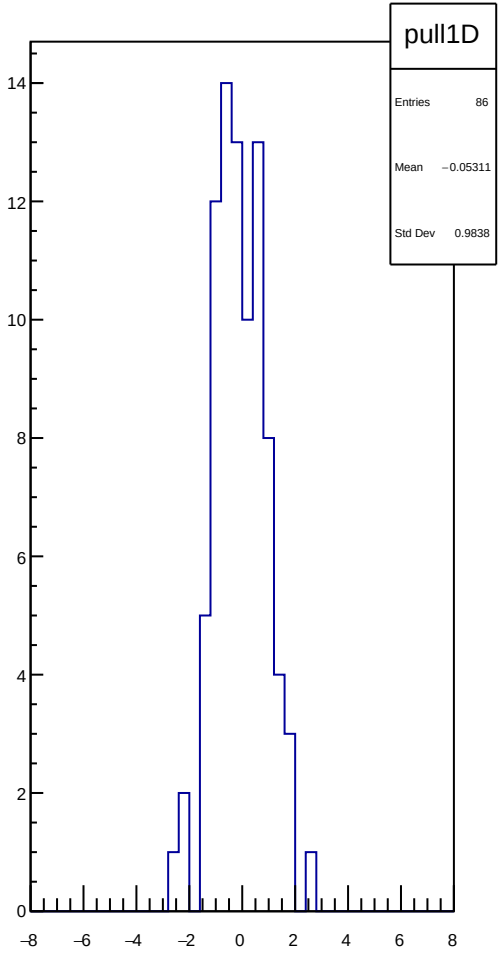

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.247e+05 / 85
p0 71.37 ± 0.06113
500
400
300
200
100

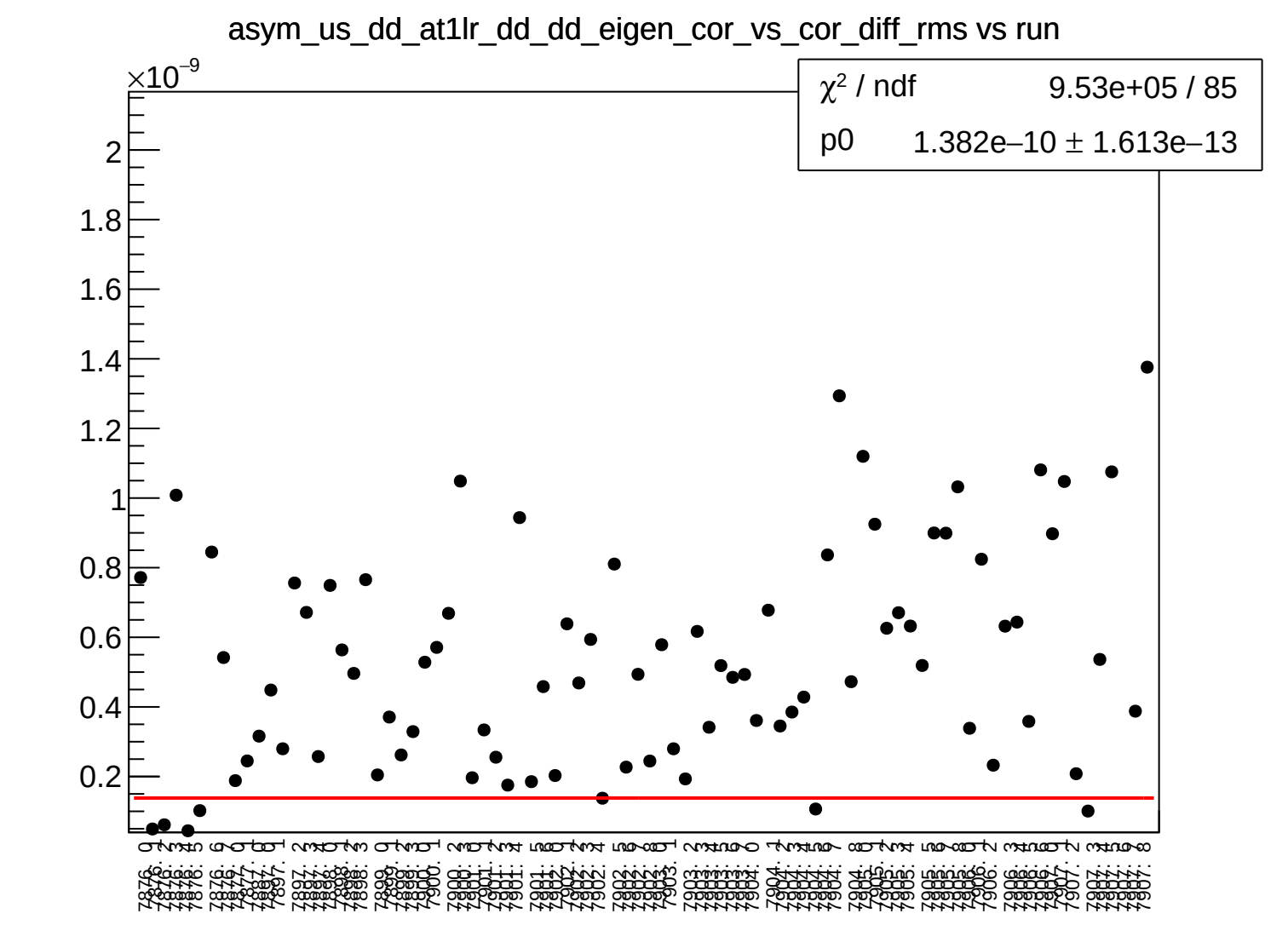

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.73 / 85
p0 −0.1369 ± 0.08645
pull
Entries 86
Mean 112.7
Std Dev 0

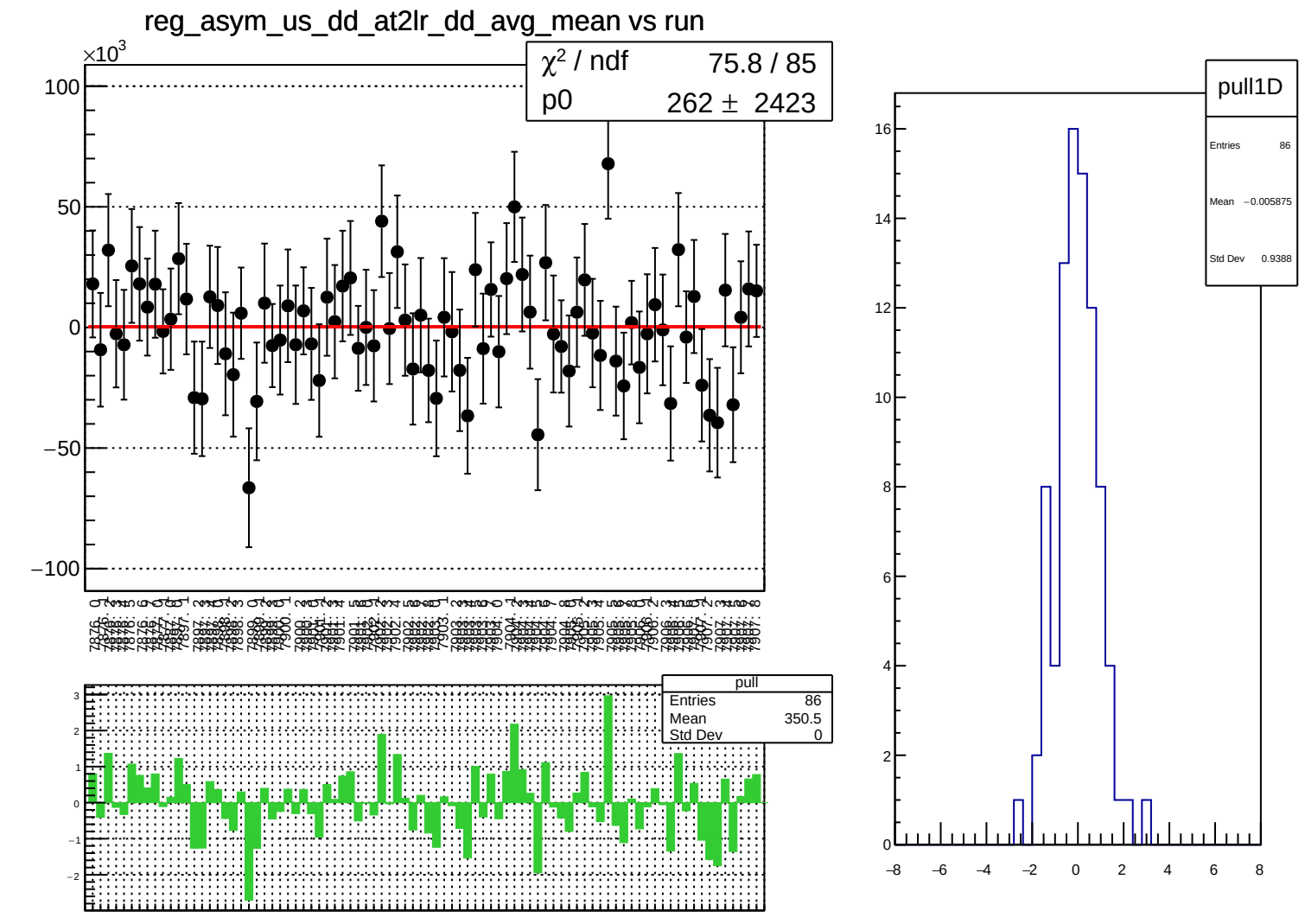

pull1D
Entries 86
Mean 0.01958
Std Dev 0.8048

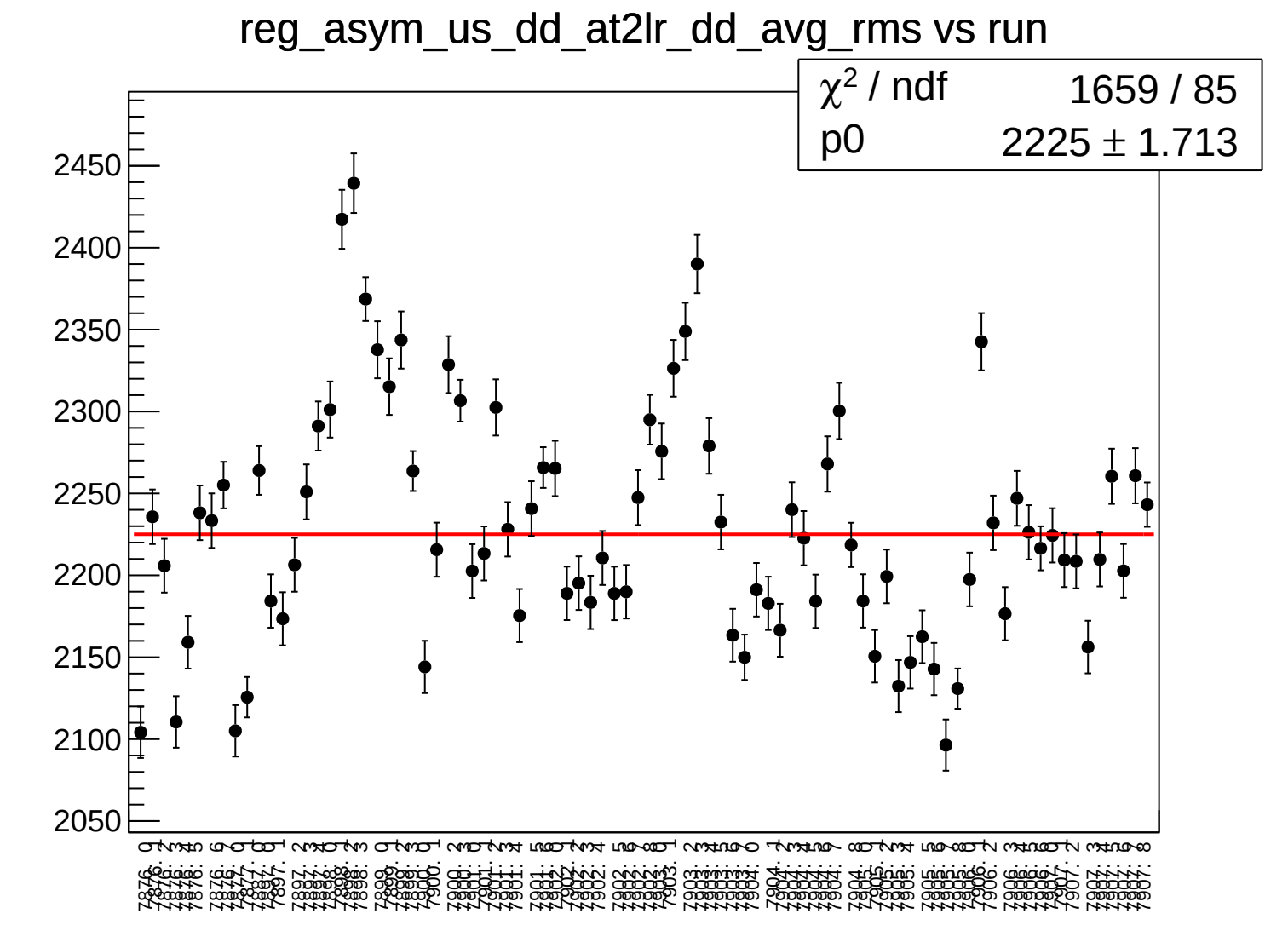

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.247e+05 / 85
p0 71.37 ± 0.06113
500
400
300
200
100

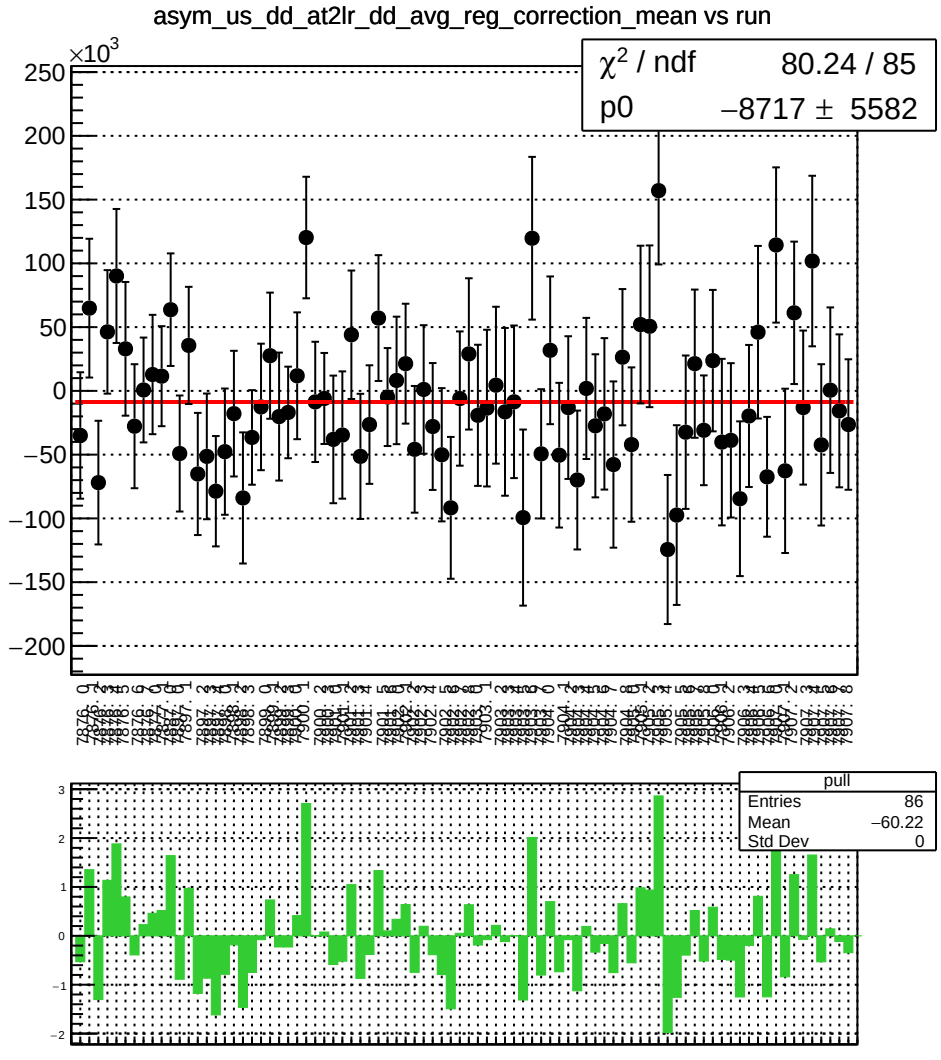

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.49 / 85
p0 3.115e−13 ± 2.281e−13
pull
Entries 86
Mean 4.828
Std Dev 0

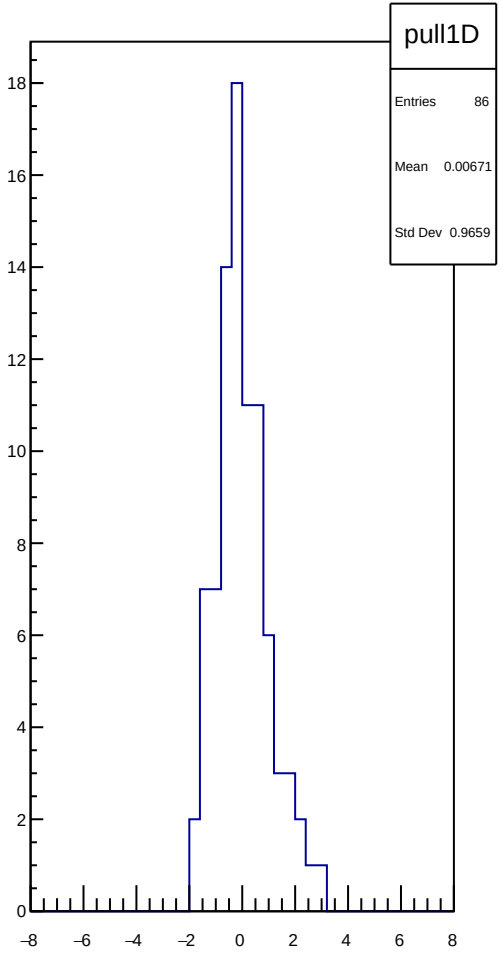

pull1D
Entries 86
Mean −0.05311
Std Dev 0.9838

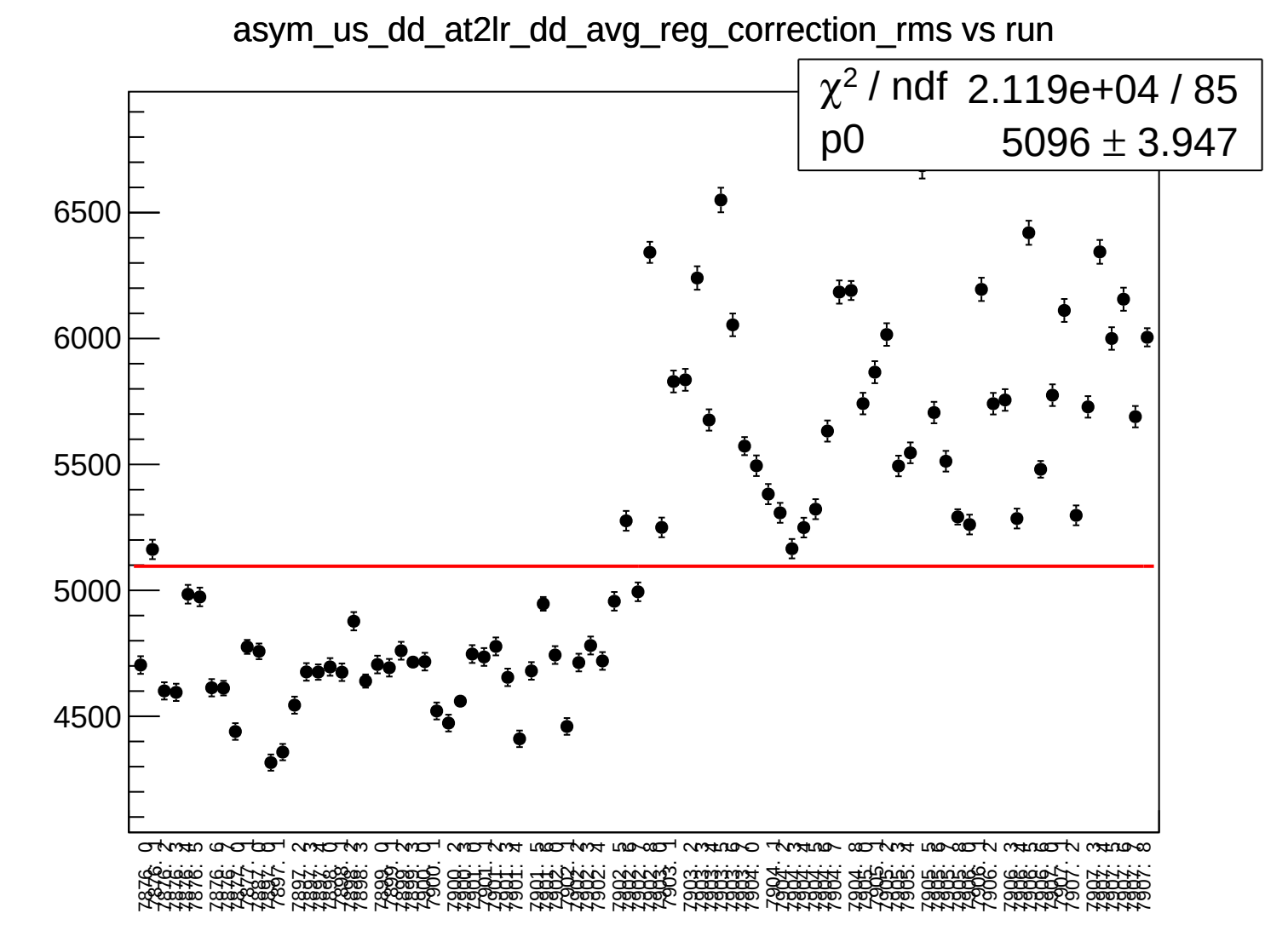

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.53e+05 / 85
p0 1.382e−10 ± 1.613e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

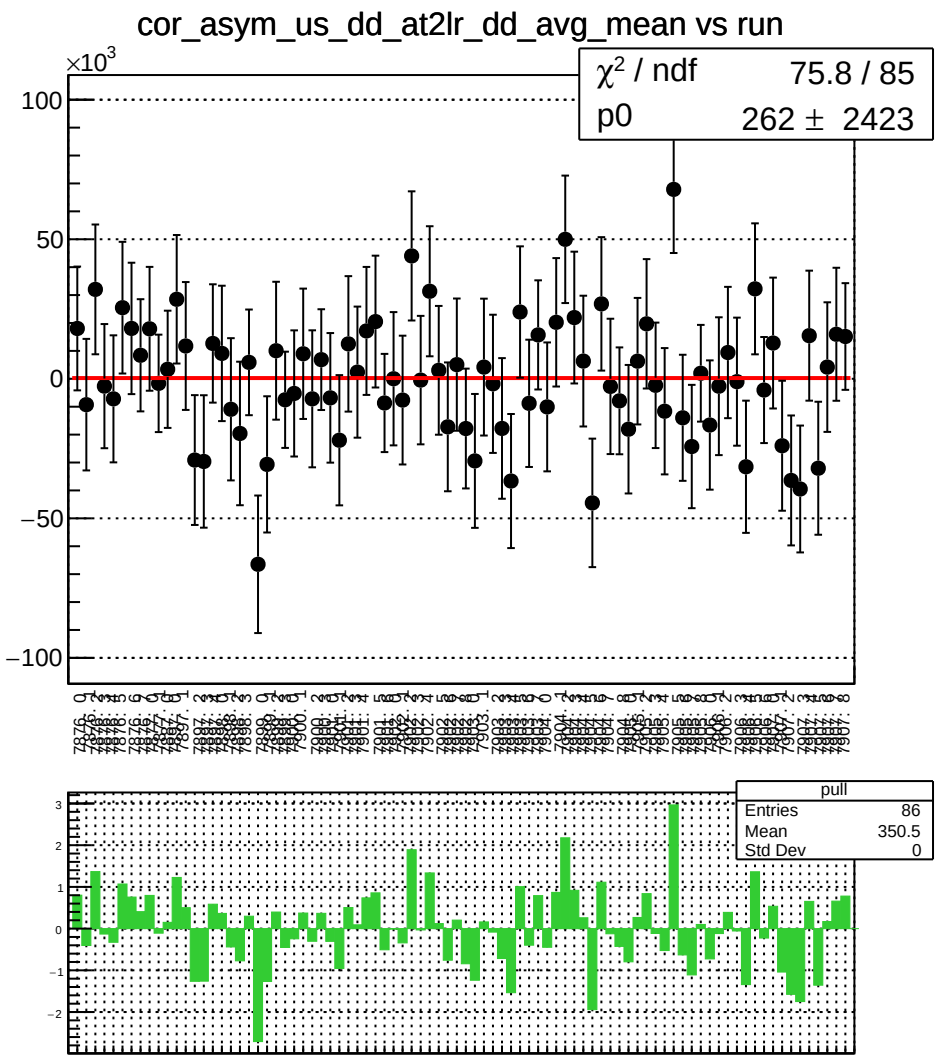

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 75.8 / 85
p0 262 ± 2423
pull
Entries 86
Mean 350.5
Std Dev 0
pull1D
Entries 86
Mean −0.005875
Std Dev 0.9388

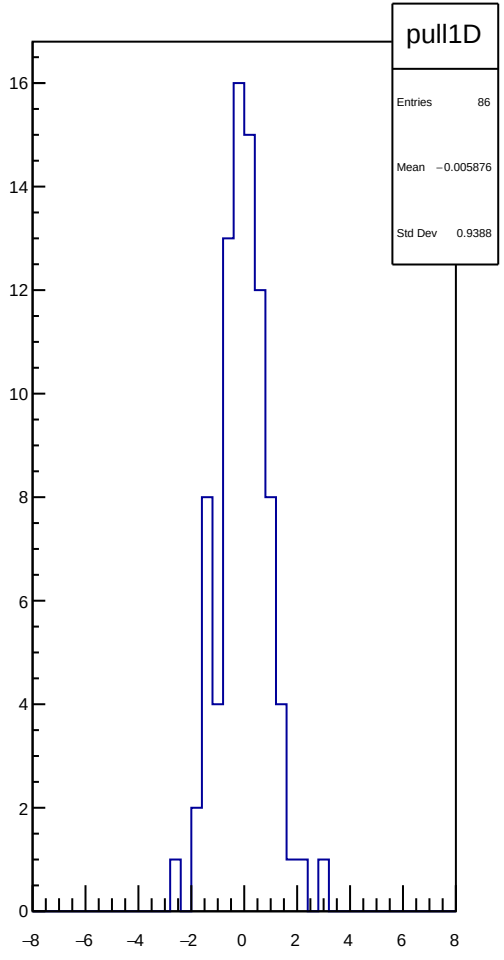

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1659 / 85
p0 2225 ± 1.713
2450
2400
2350
2300
2250
2200
2150
2100
2050

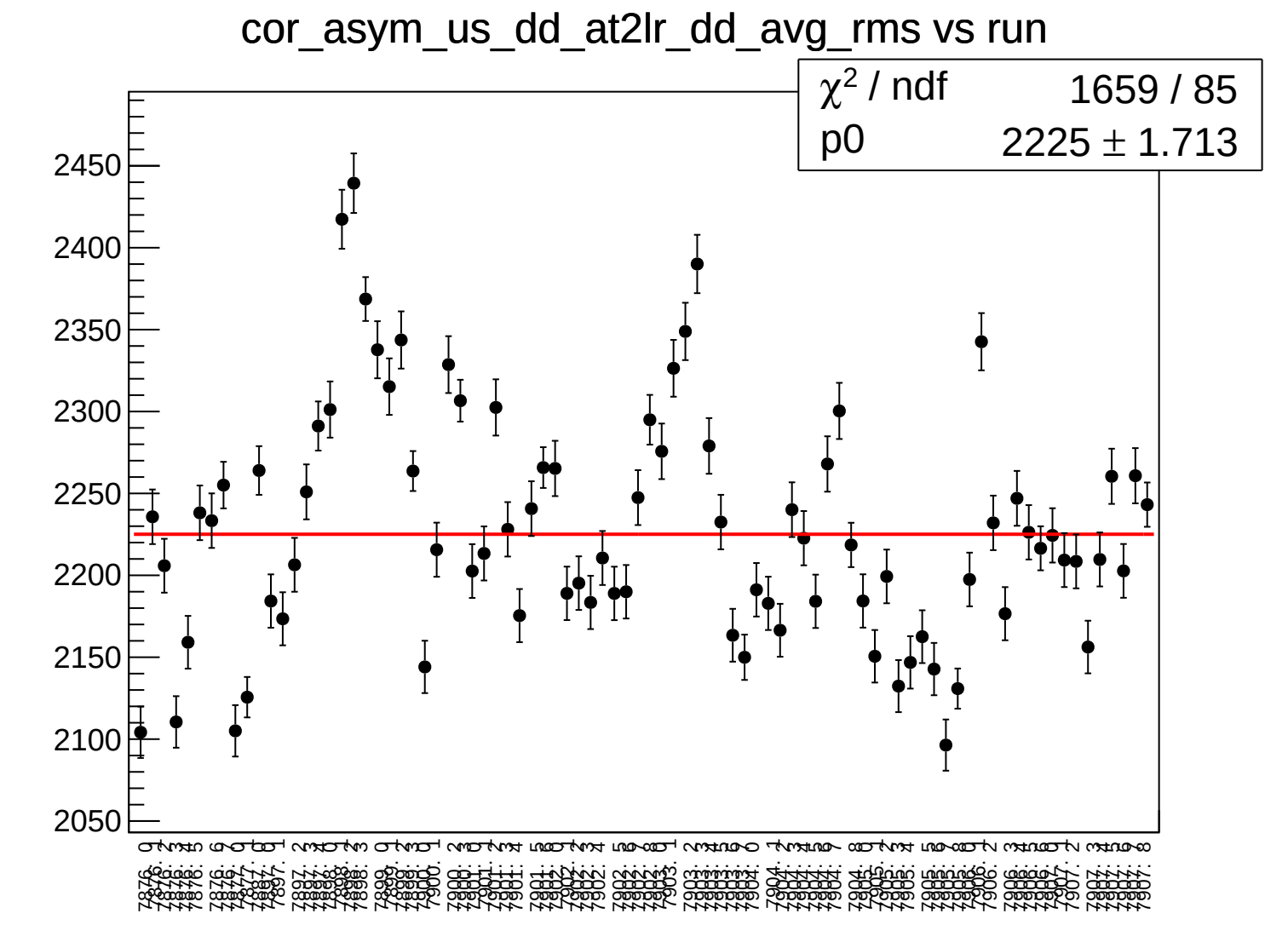

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 80.24 / 85
p0 −8717 ± 5582
×10³
pull
Entries 86
Mean −60.22
Std Dev 0

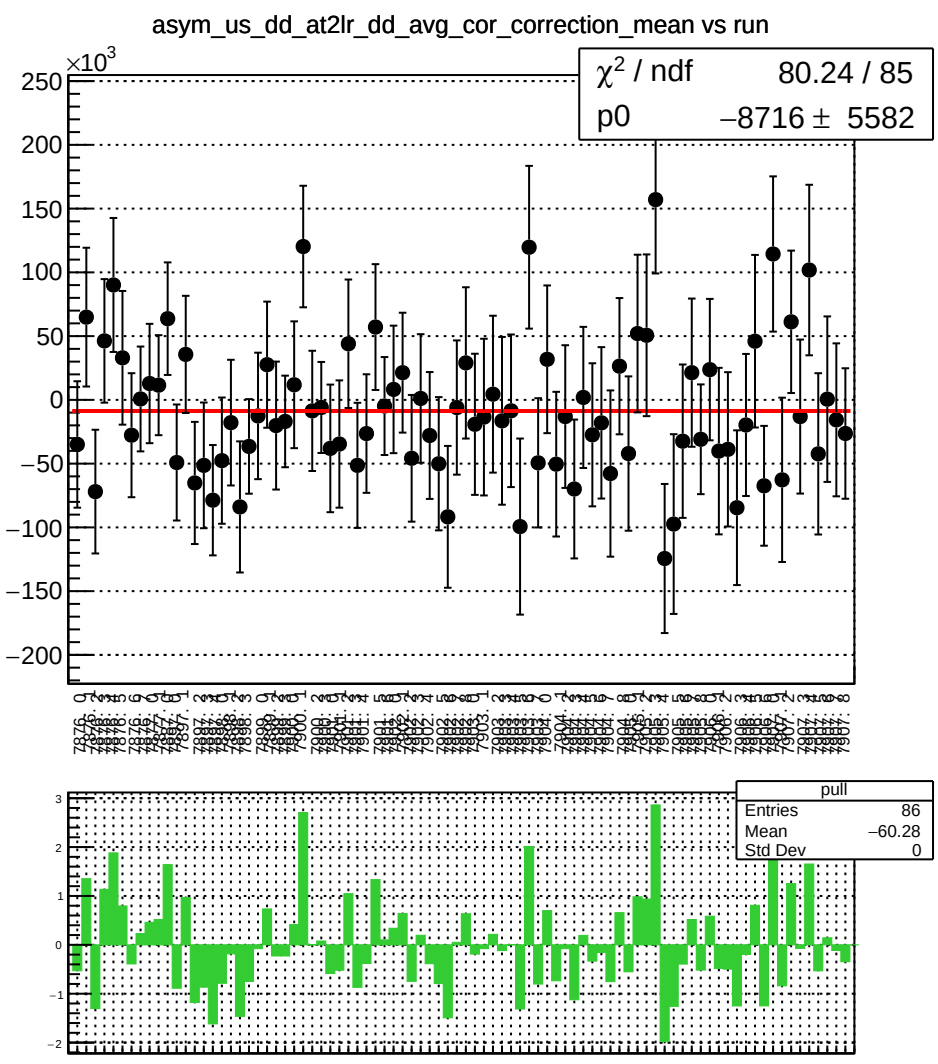

pull1D
Entries 86
Mean 0.00671
Std Dev 0.9659

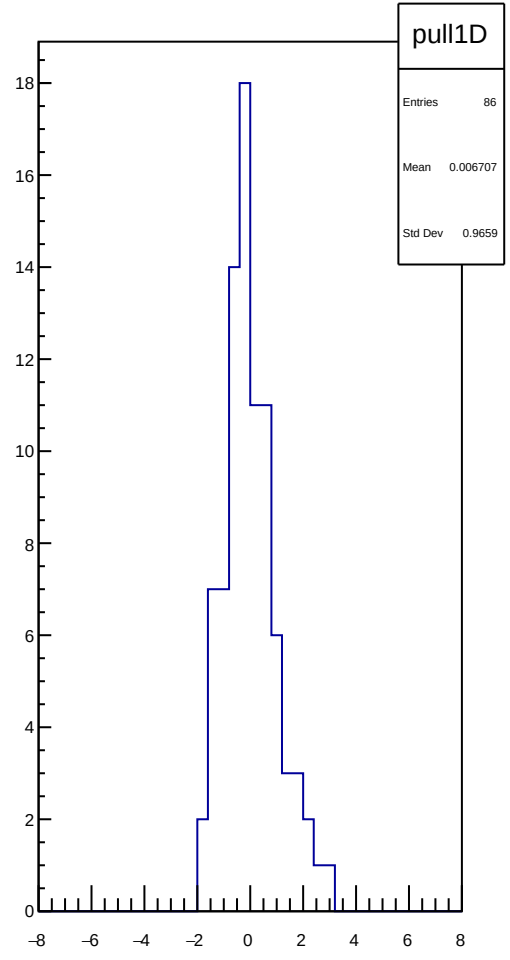

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 2.119e+04 / 85
p0 5096 ± 3.947
6500
6000
5500
5000
4500

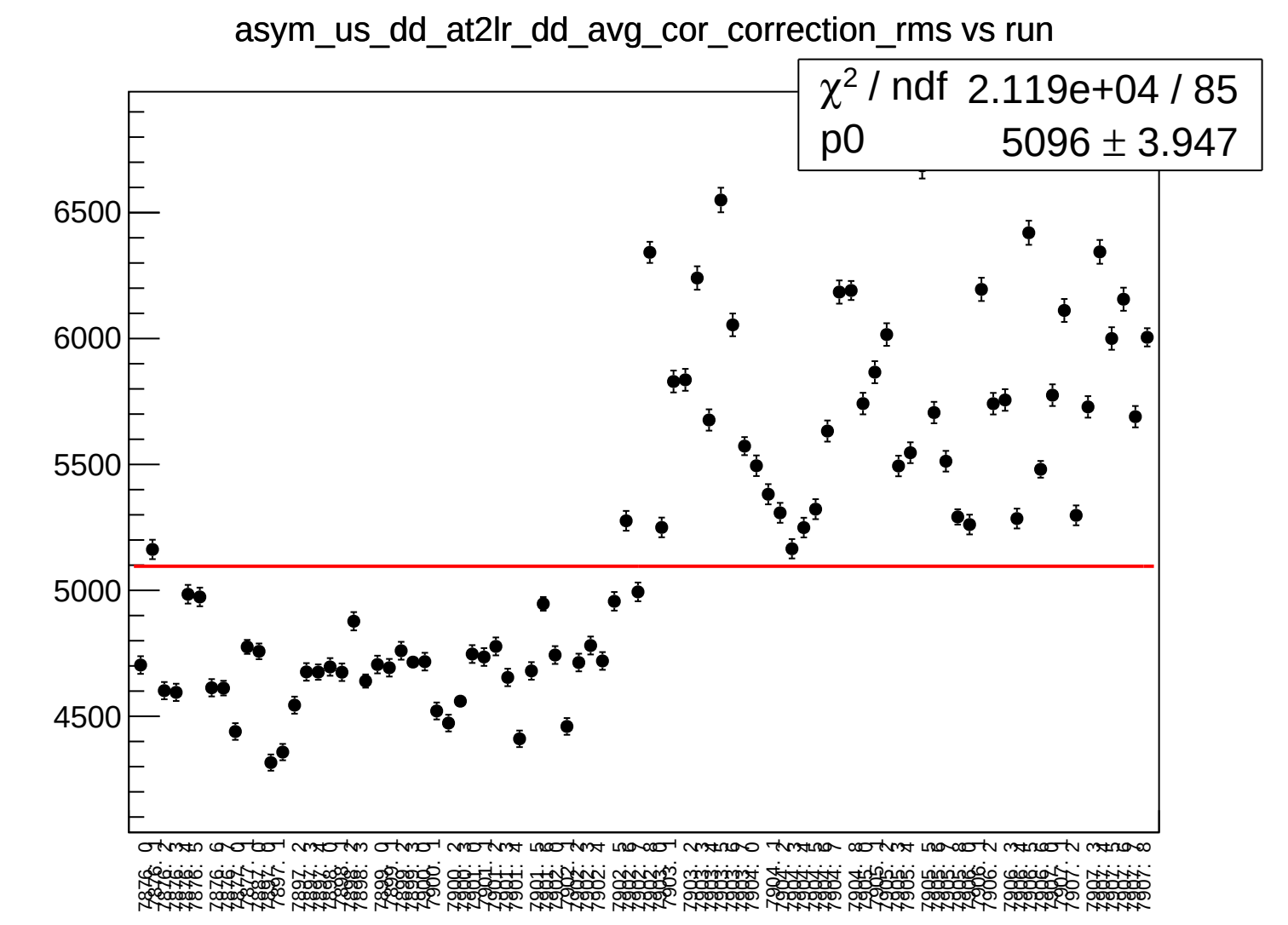

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 75.8 / 85
p0 262 ± 2423
100
50
0
−50
−100
pull
Entries 86
Mean 350.5
Std Dev 0
3
2
1
0
−1
−2

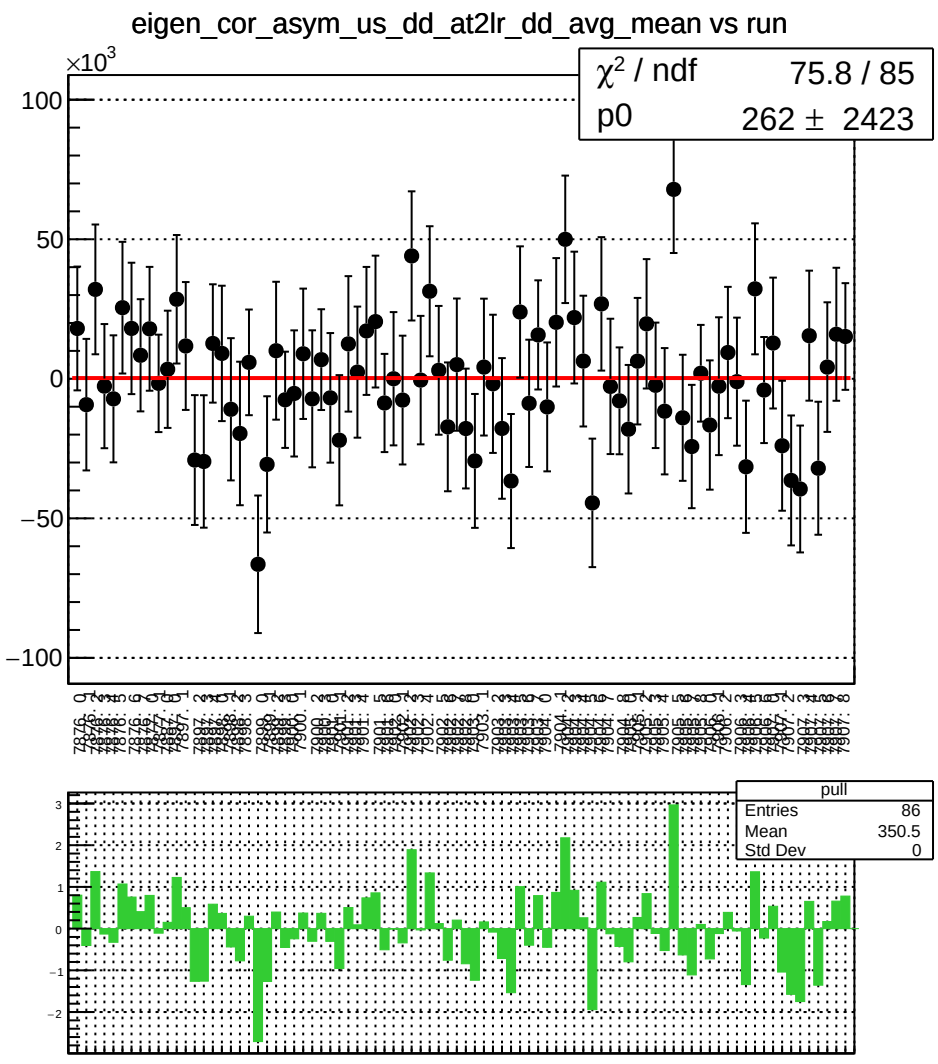

pull1D
Entries 86
Mean −0.005876
Std Dev 0.9388
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

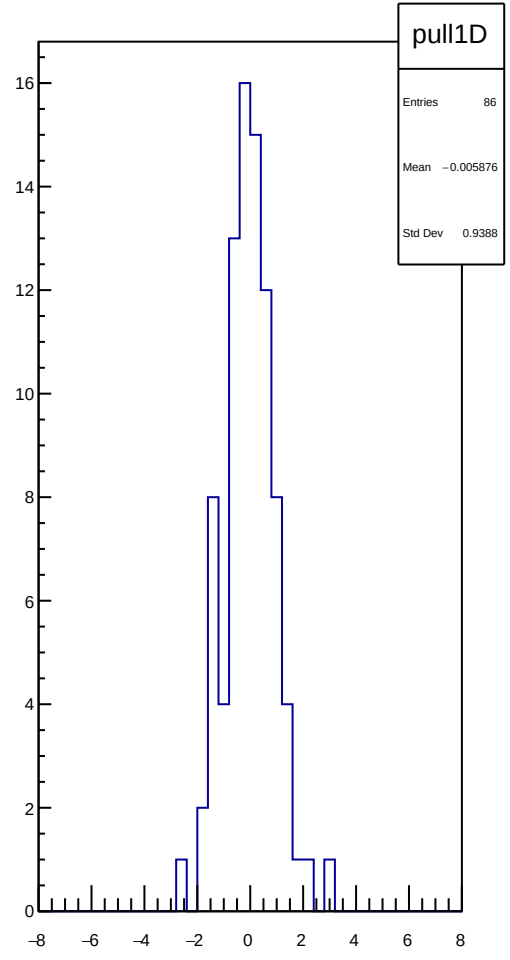

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1659 / 85
p0 2225 ± 1.713
2450
2400
2350
2300
2250
2200
2150
2100
2050

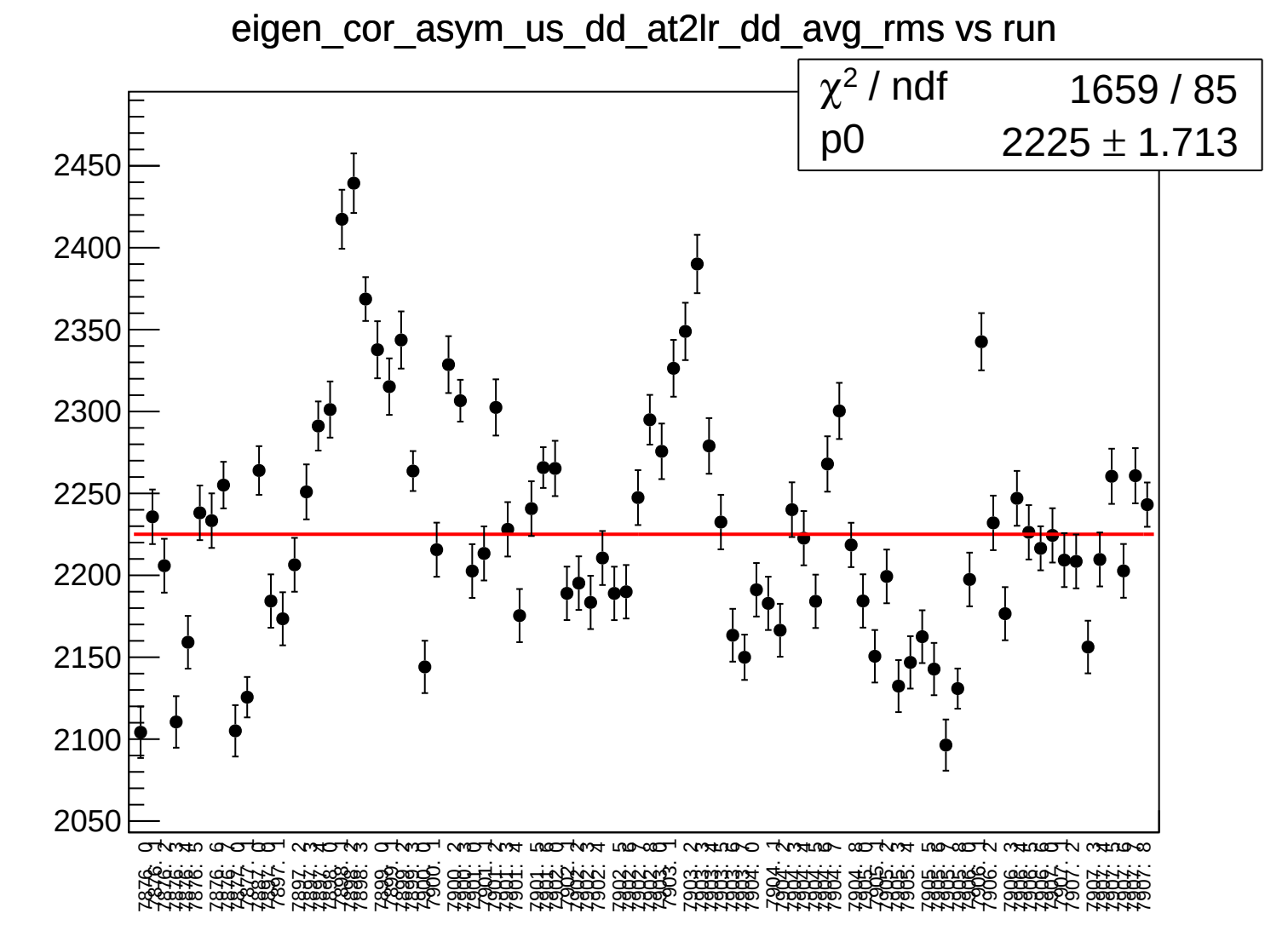

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 80.24 / 85
p0 −8716 ± 5582
×10³
pull
Entries 86
Mean −60.28
Std Dev 0

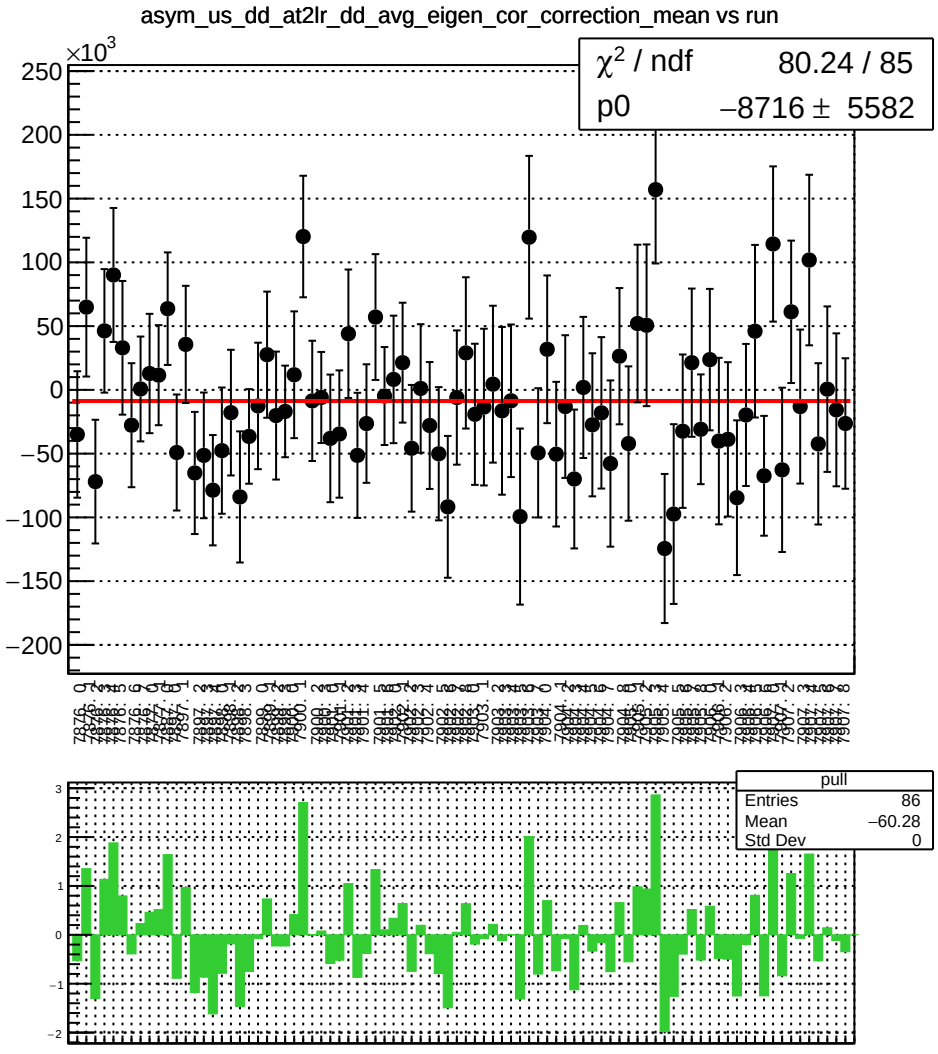

pull1D
Entries 86
Mean 0.006707
Std Dev 0.9659

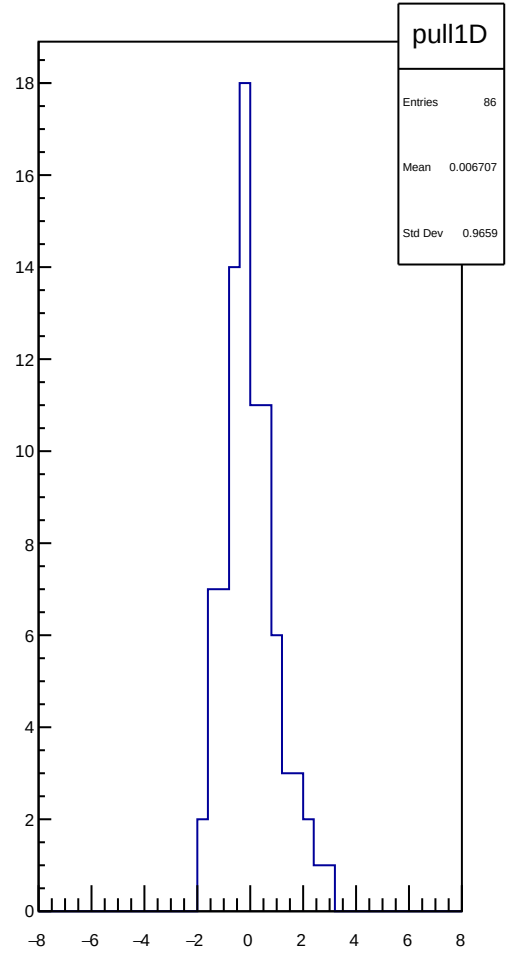

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.119e+04 / 85
p0 5096 ± 3.947
6500
6000
5500
5000
4500

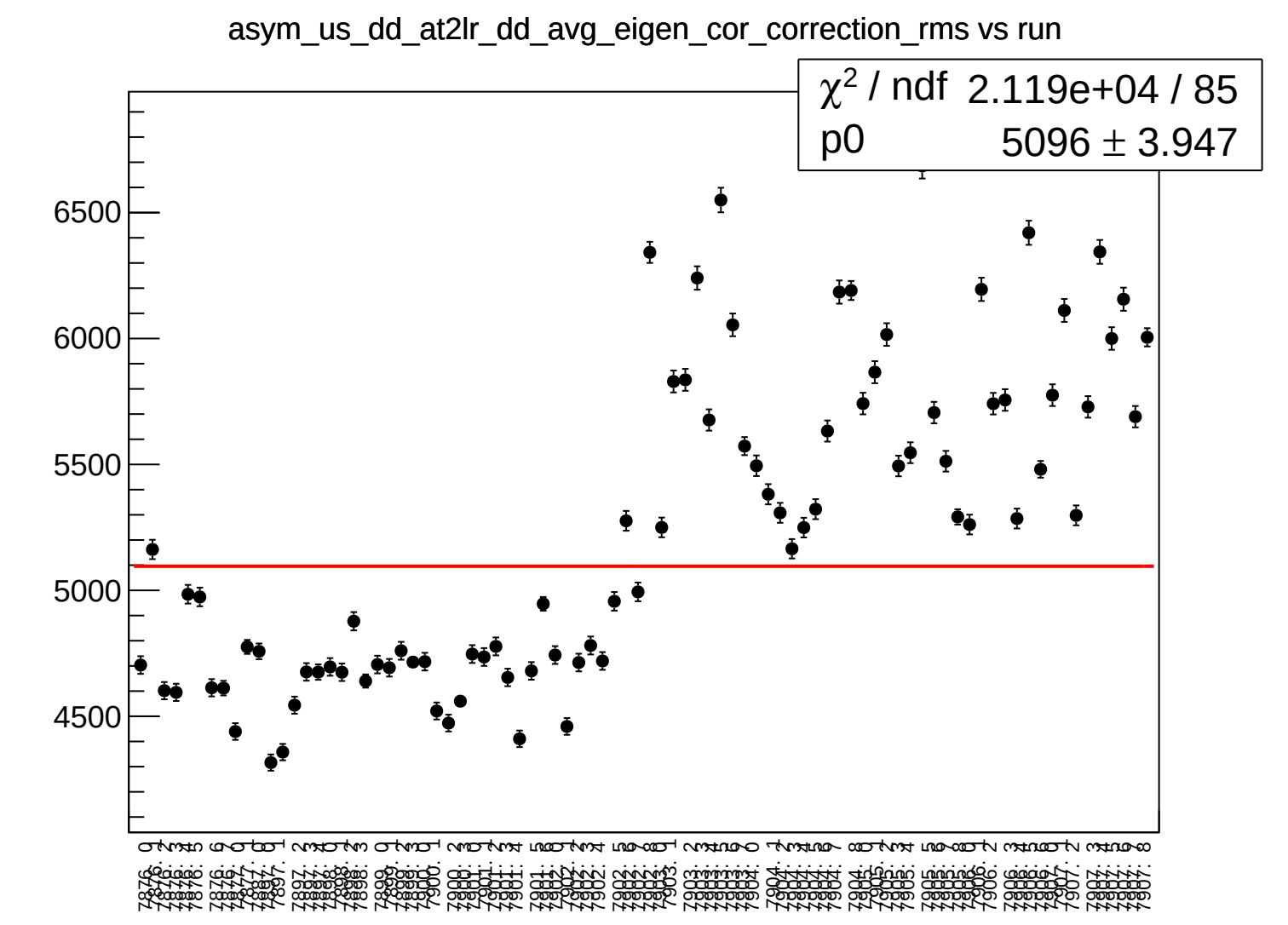

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 75.8 / 85
p0 262 ± 2423
pull
Entries 86
Mean 350.5
Std Dev 0

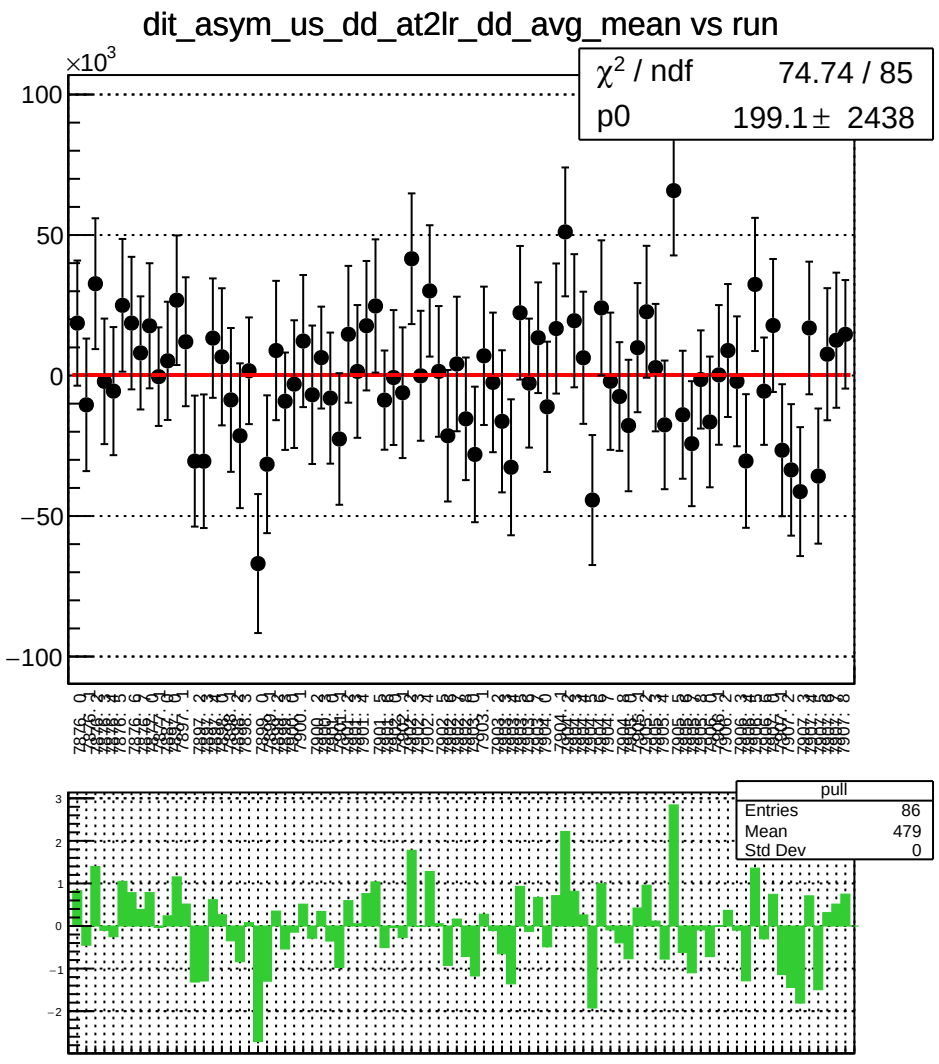

pull1D
Entries 86
Mean −0.005876
Std Dev 0.9388

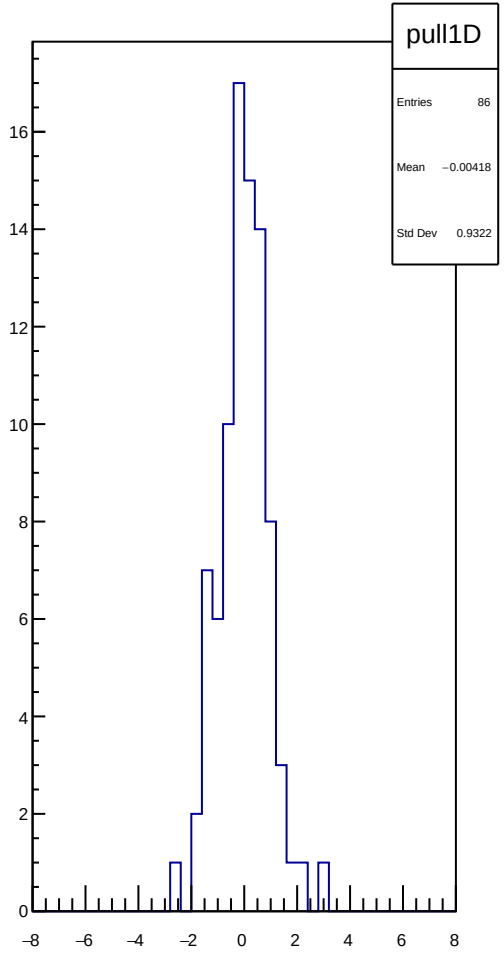

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1659 / 85
p0 2225 ± 1.713
2450
2400
2350
2300
2250
2200
2150
2100
2050

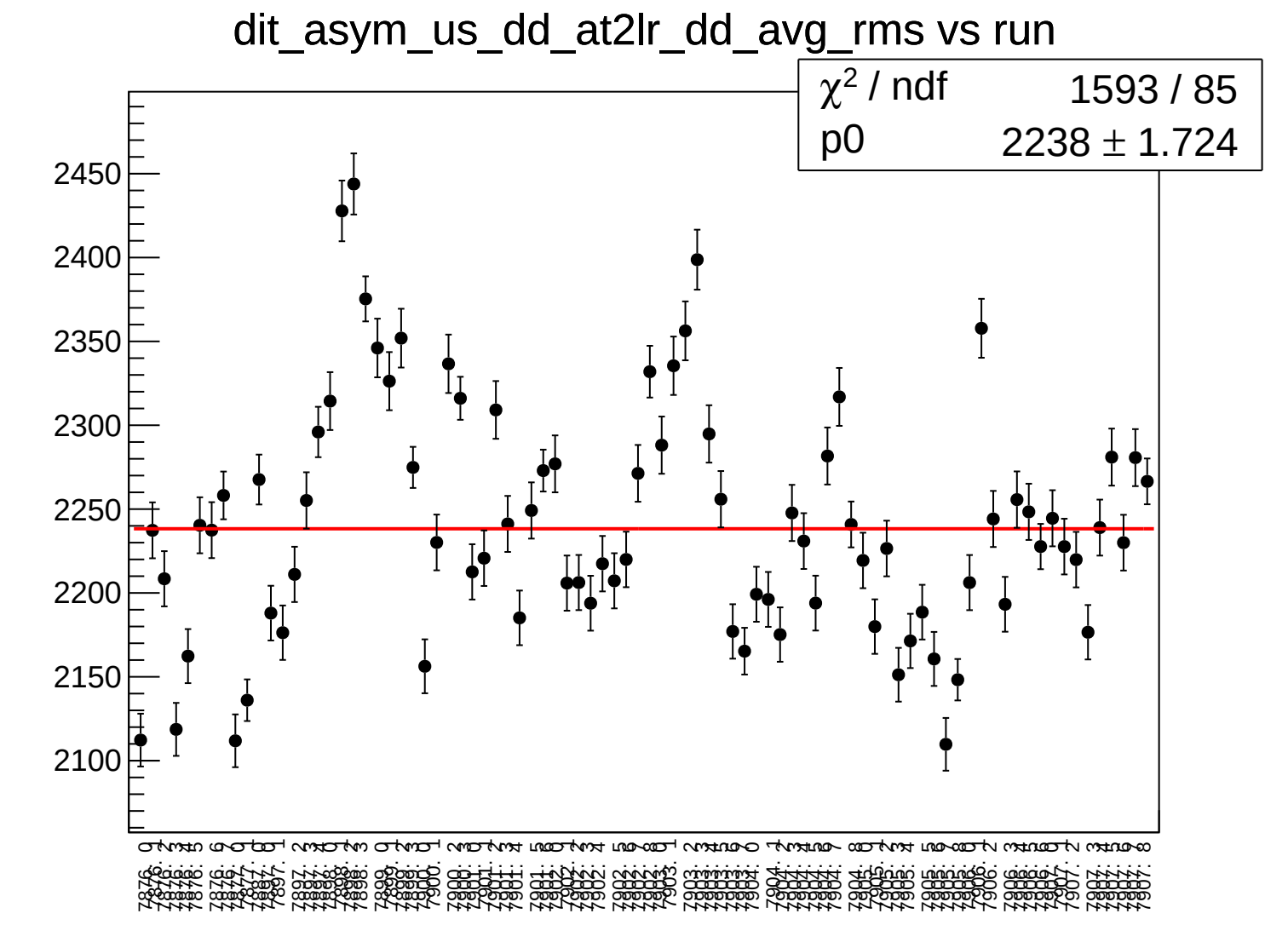

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.24 / 85
p0 −8716 ± 5582
×10³
pull
Entries 86
Mean −60.28
Std Dev 0

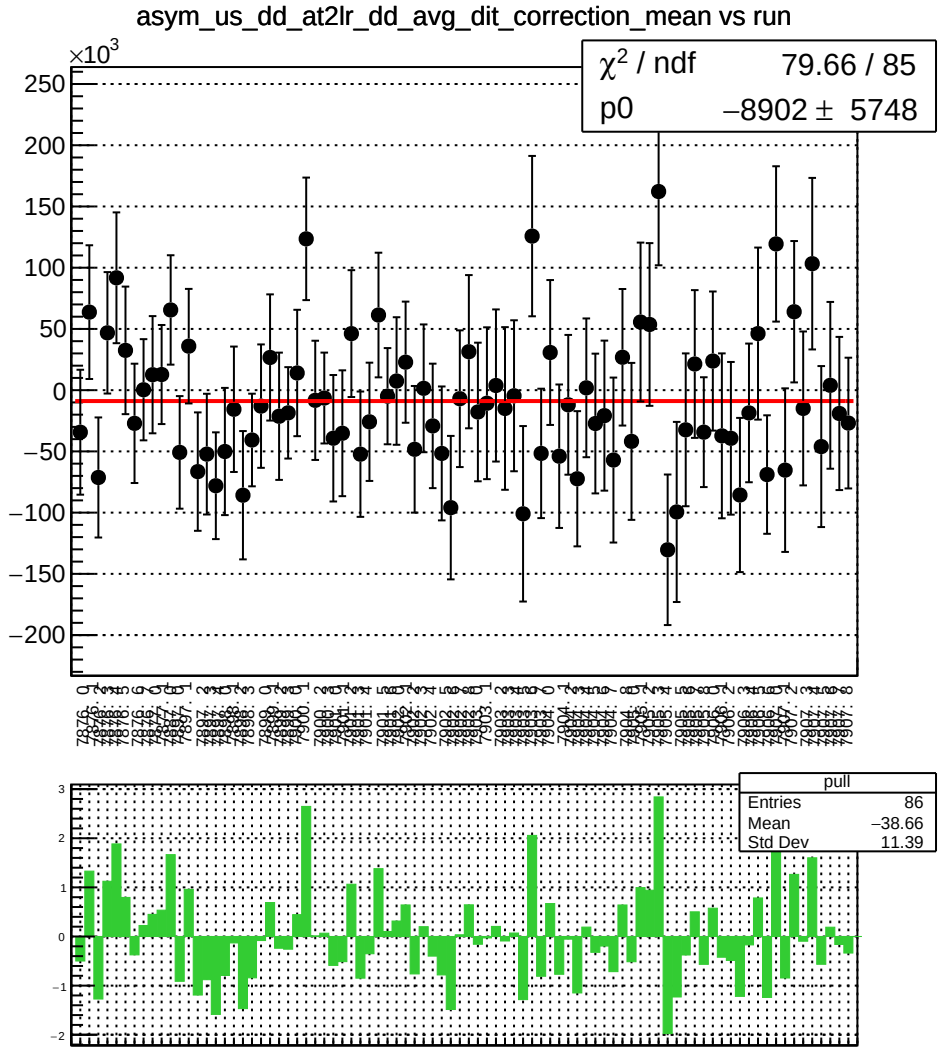

pull1D
Entries 86
Mean 0.006707
Std Dev 0.9659

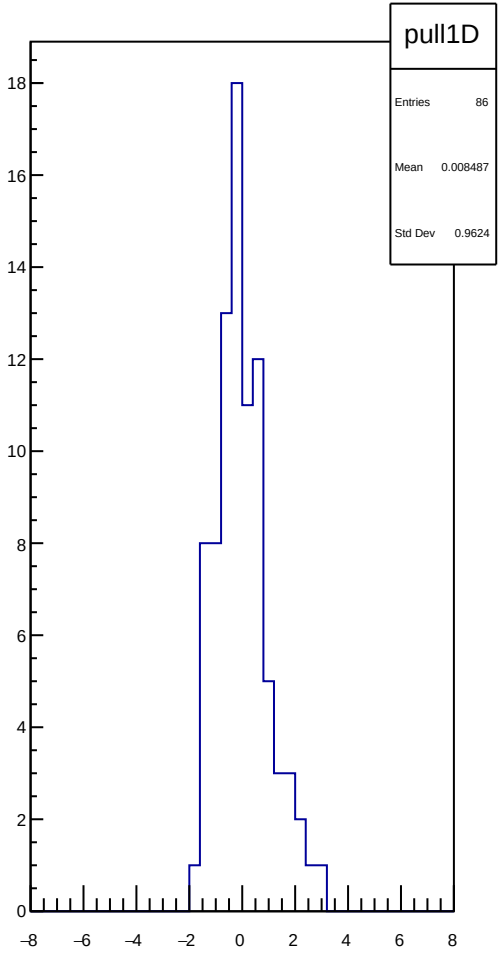

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.119e+04 / 85
p0 5096 ± 3.947
6500
6000
5500
5000
4500

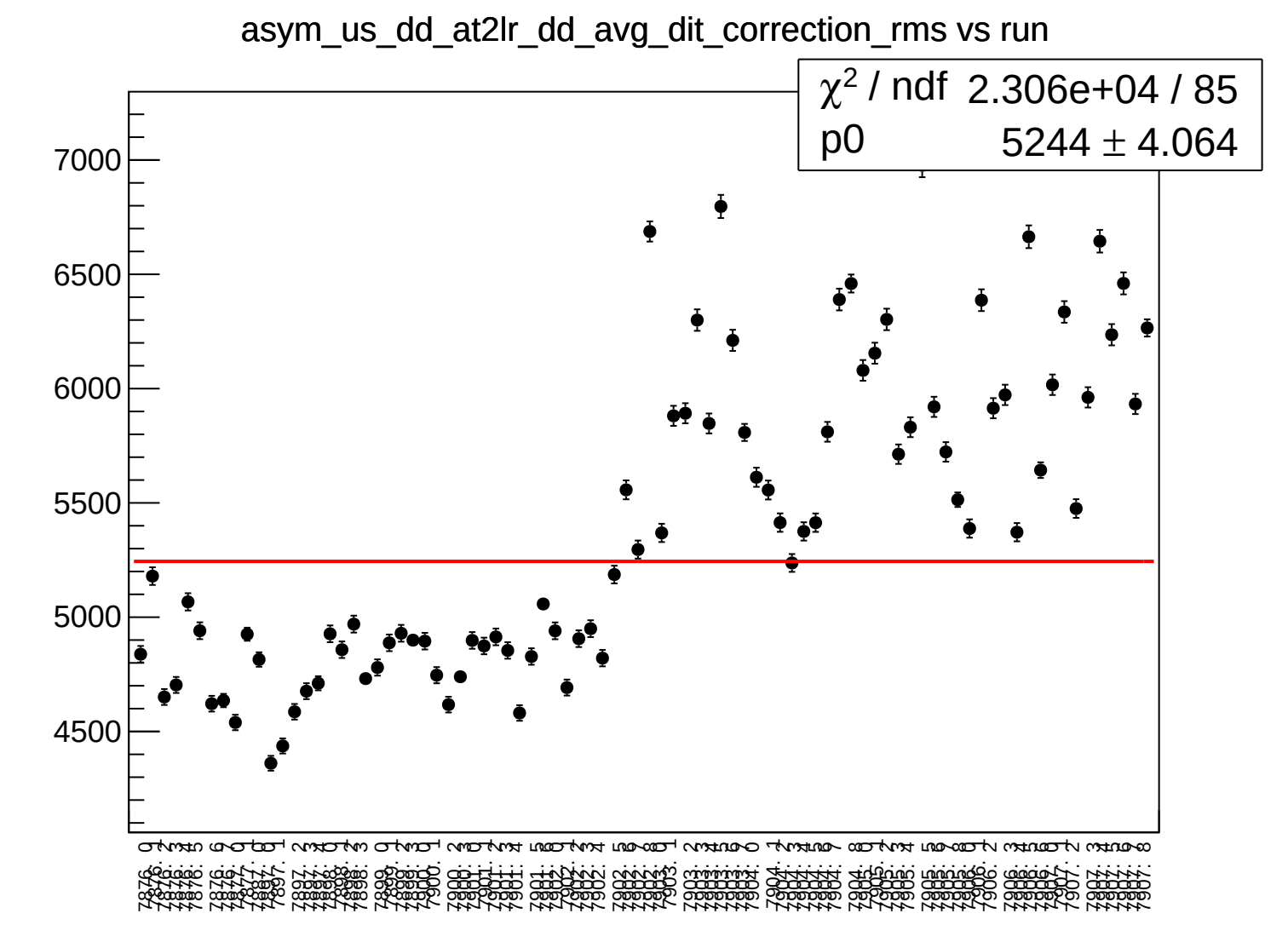

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 74.74 / 85
p0 199.1 ± 2438
100
50
0
−50
−100
pull
Entries 86
Mean 479
Std Dev 0
3
2
1
0
−1
−2

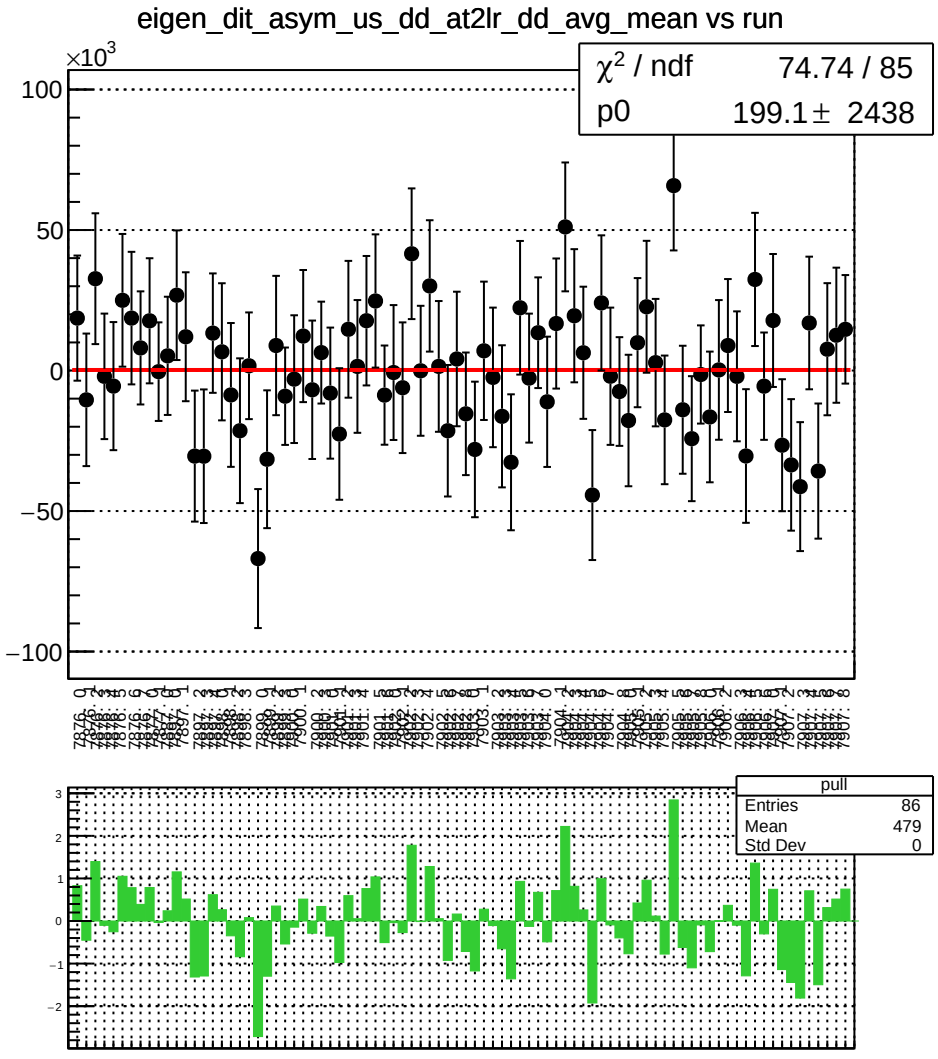

pull1D
Entries 86
Mean −0.00418
Std Dev 0.9322
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

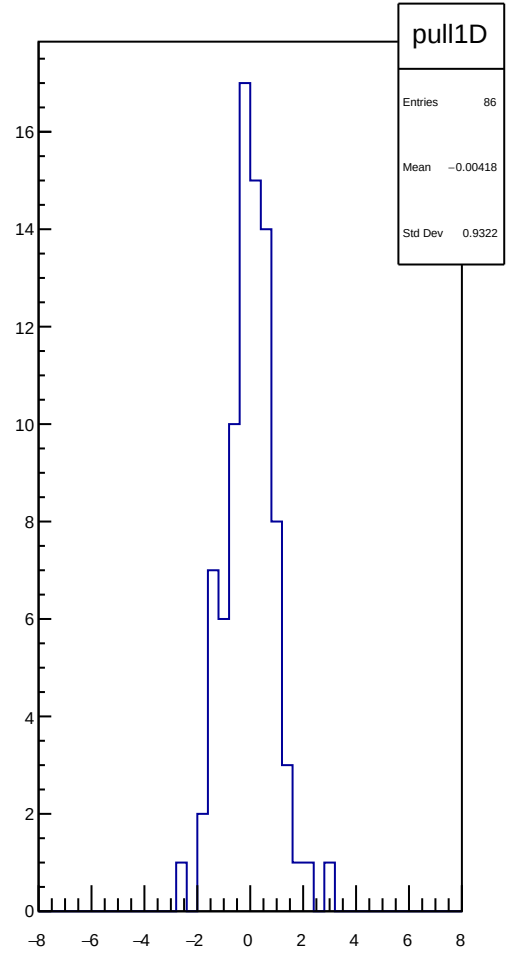

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1593 / 85
p0 2238 ± 1.724
2450
2400
2350
2300
2250
2200
2150
2100

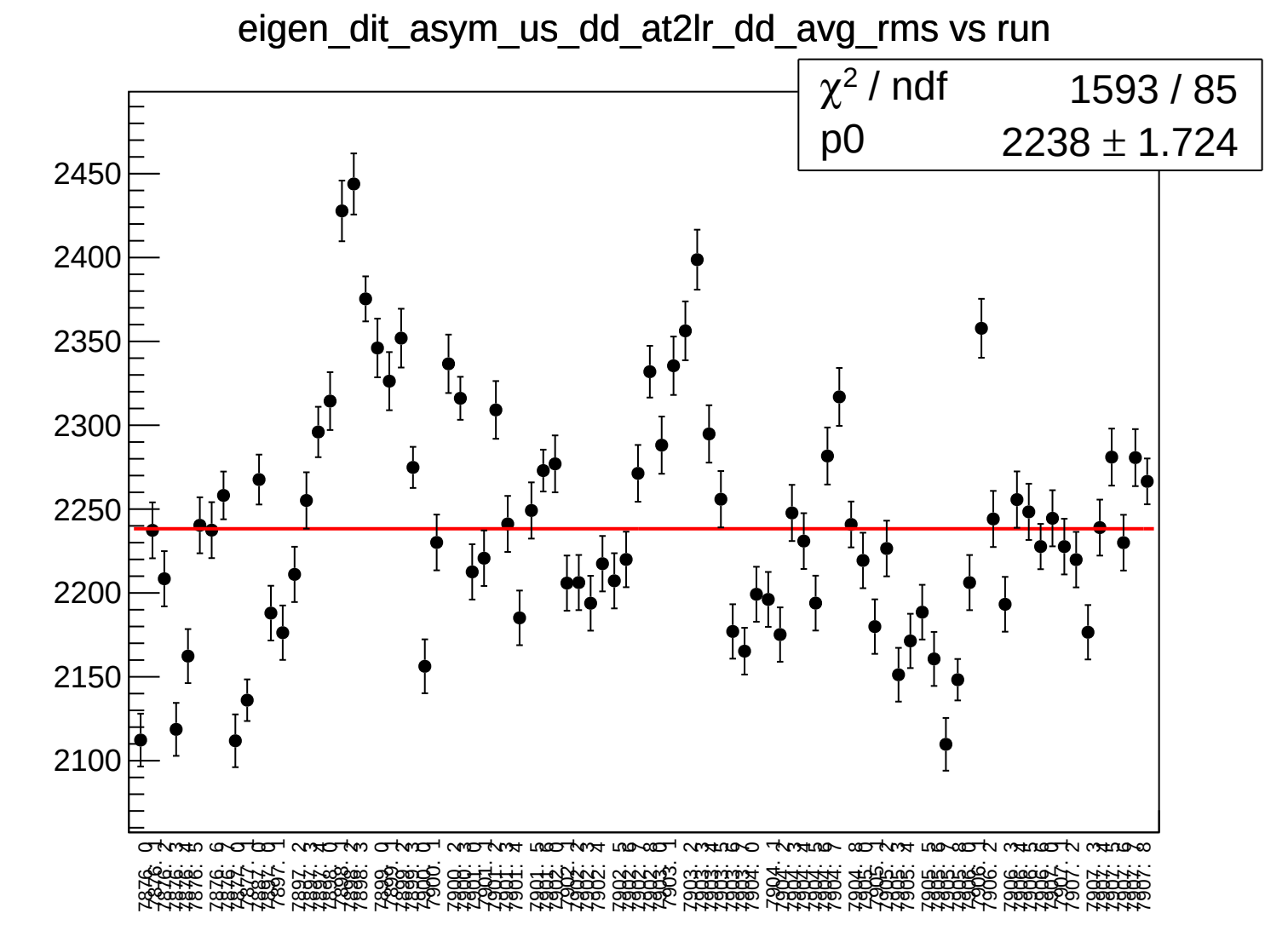

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.66 / 85
p0 −8902 ± 5748
pull
Entries 86
Mean −38.66
Std Dev 11.39

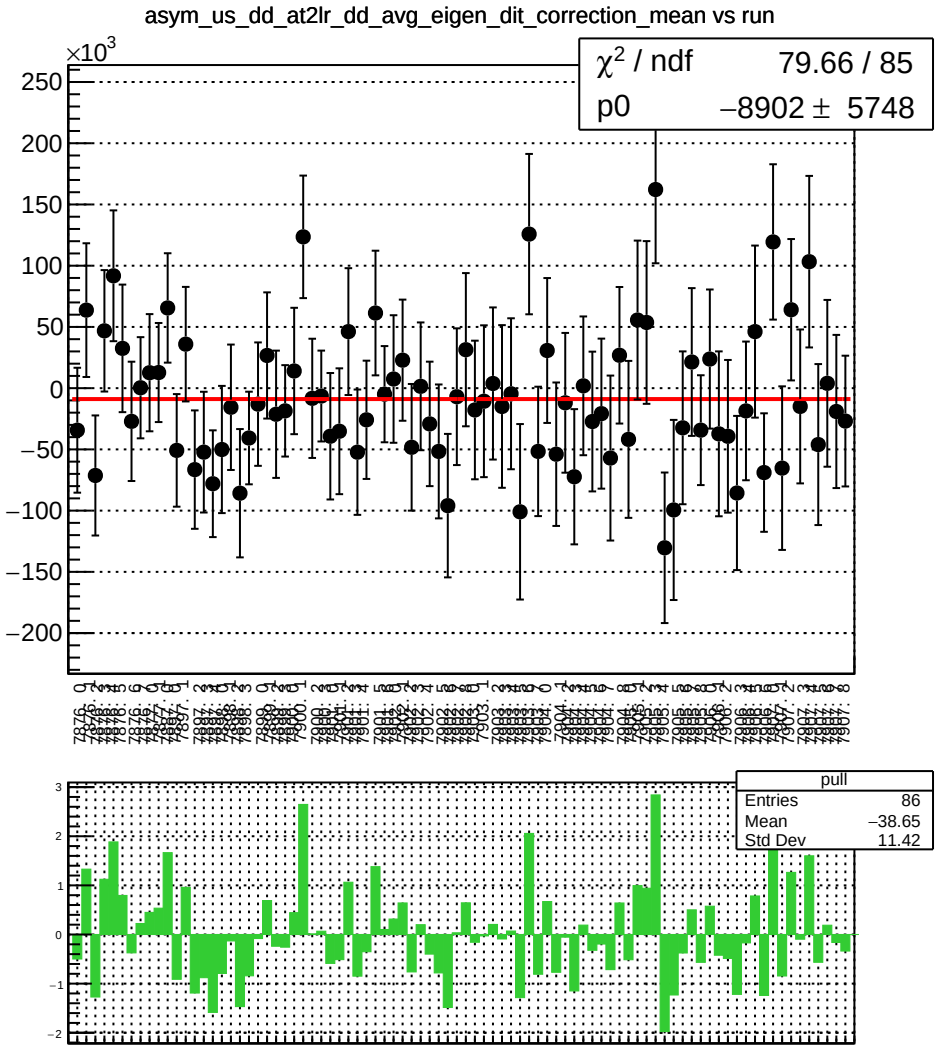

pull1D
Entries 86
Mean 0.008487
Std Dev 0.9624

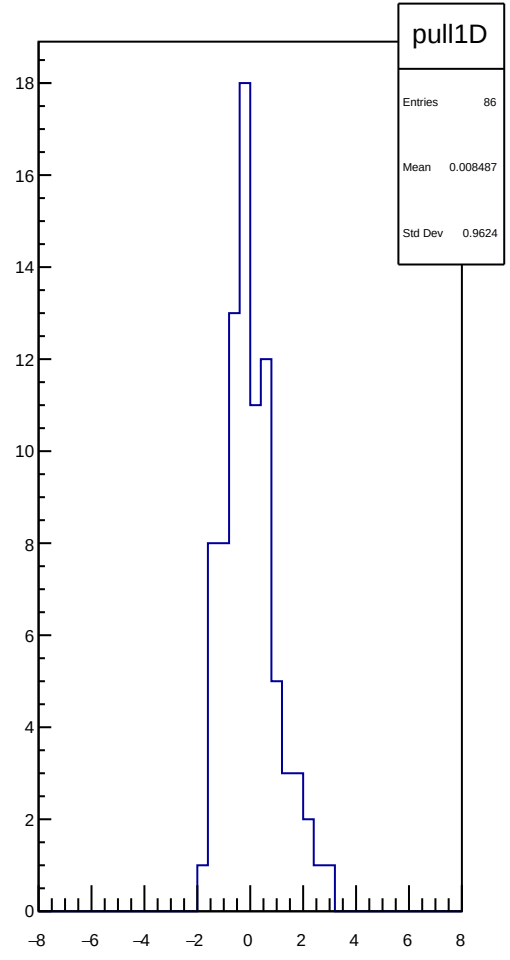

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.306e+04 / 85
p0 5244 ± 4.064
7000
6500
6000
5500
5000
4500

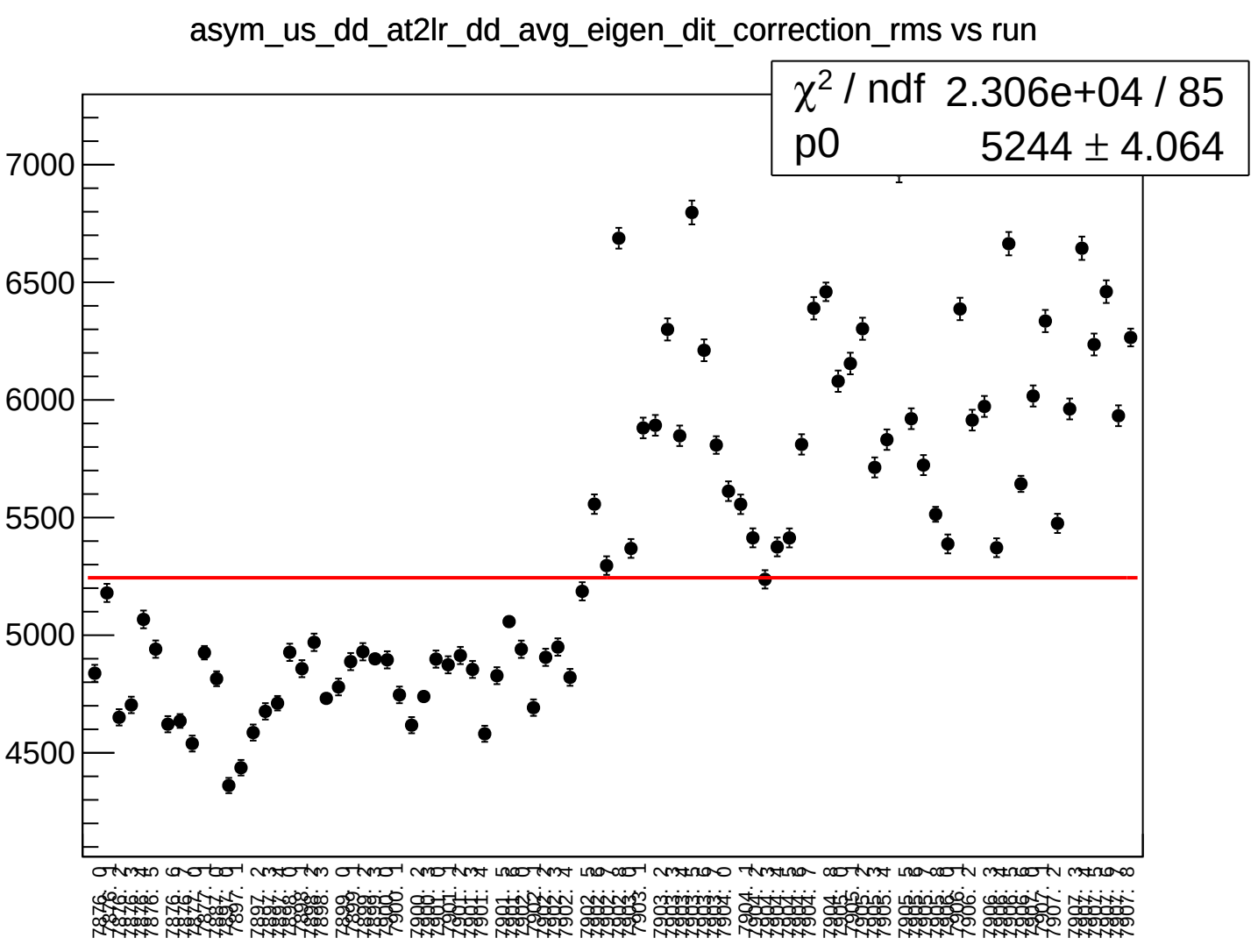

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 74.74 / 85
p0 199.1 ± 2438
pull
Entries 86
Mean 479
Std Dev 0

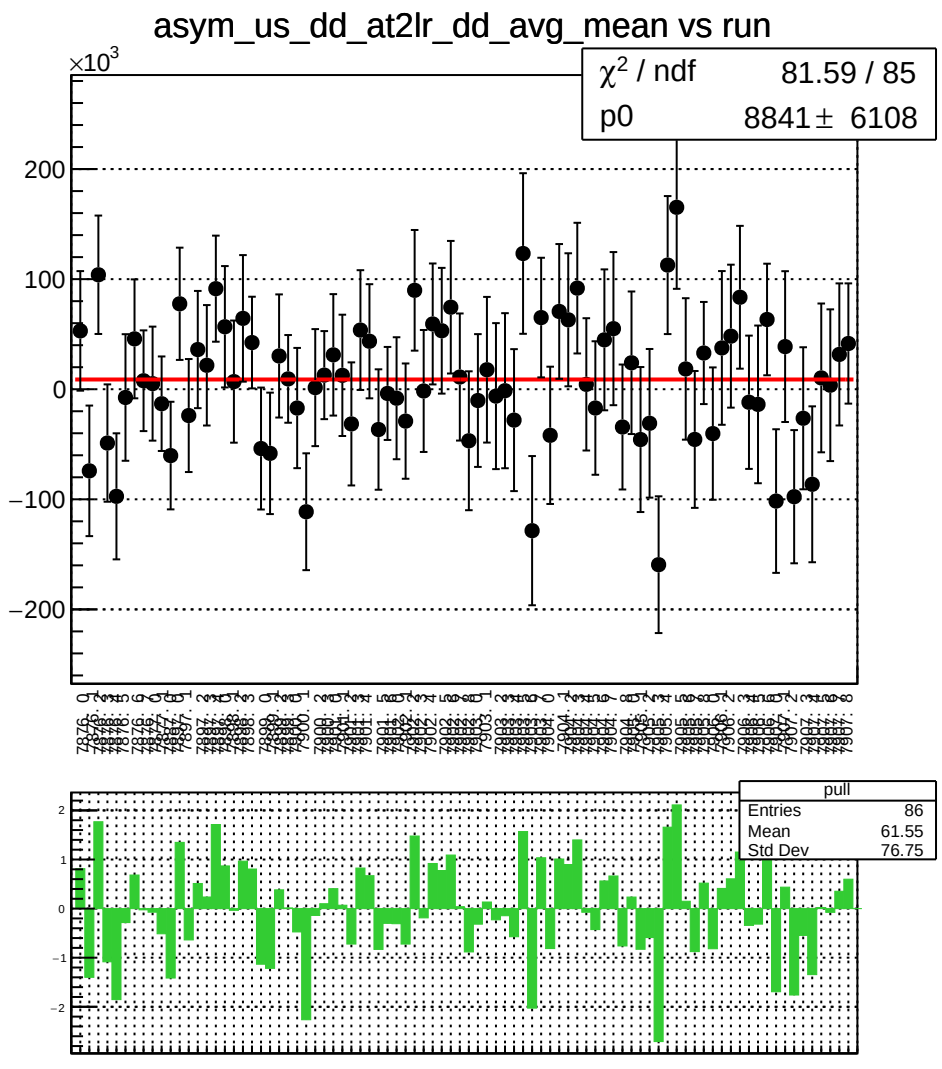

pull1D
Entries 86
Mean −0.00418
Std Dev 0.9322

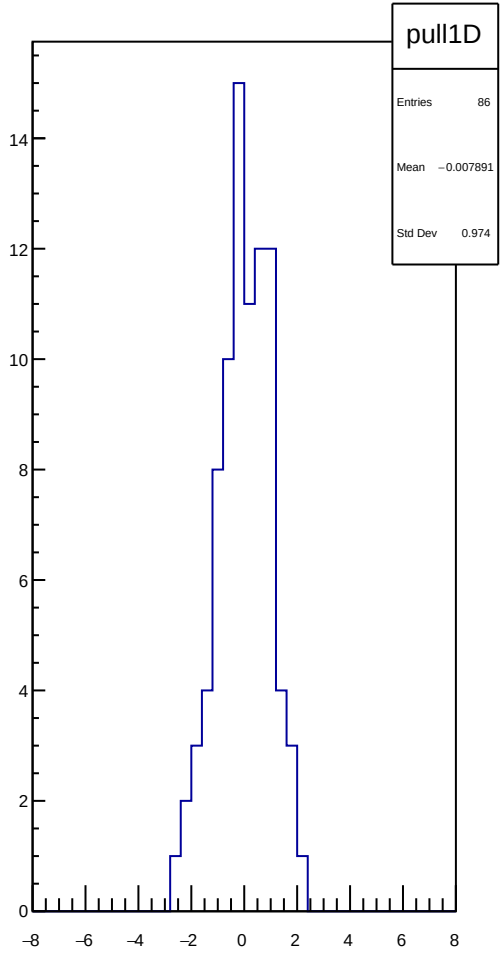

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1593 / 85
p0 2238 ± 1.724
2450
2400
2350
2300
2250
2200
2150
2100

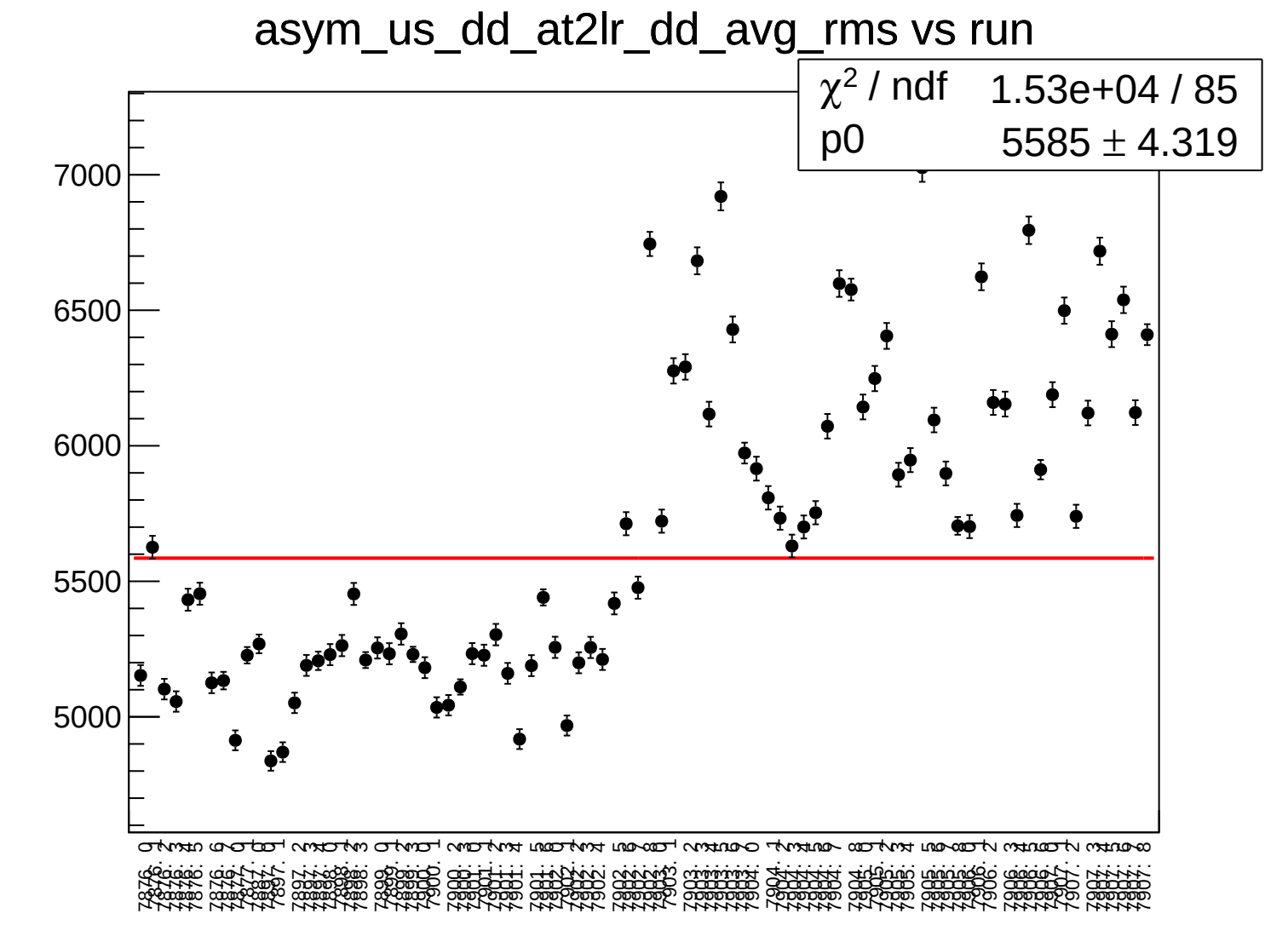

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.66 / 85
p0 −8902 ± 5748
pull
Entries 86
Mean −38.65
Std Dev 11.42

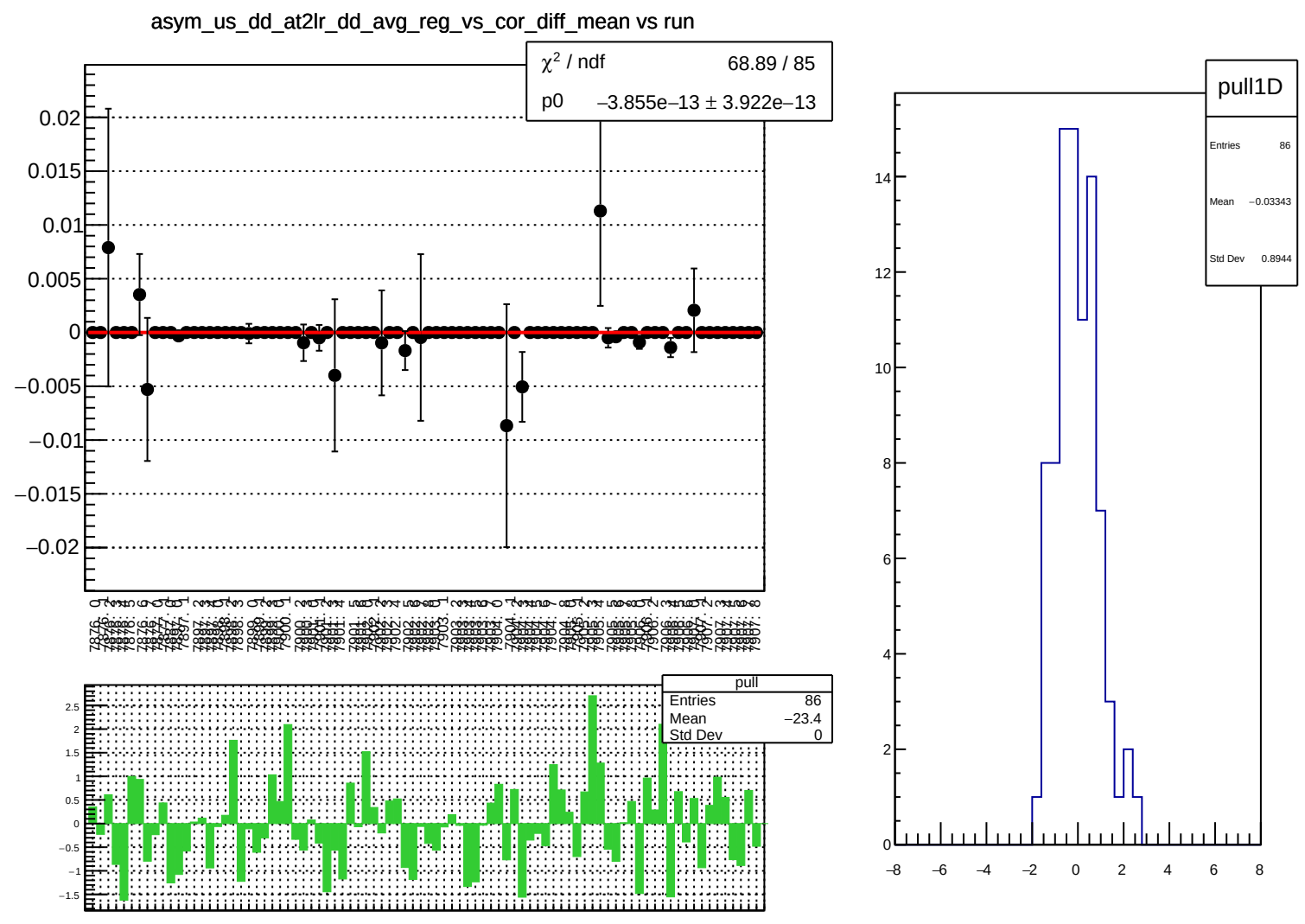

pull1D
Entries 86
Mean 0.008487
Std Dev 0.9624

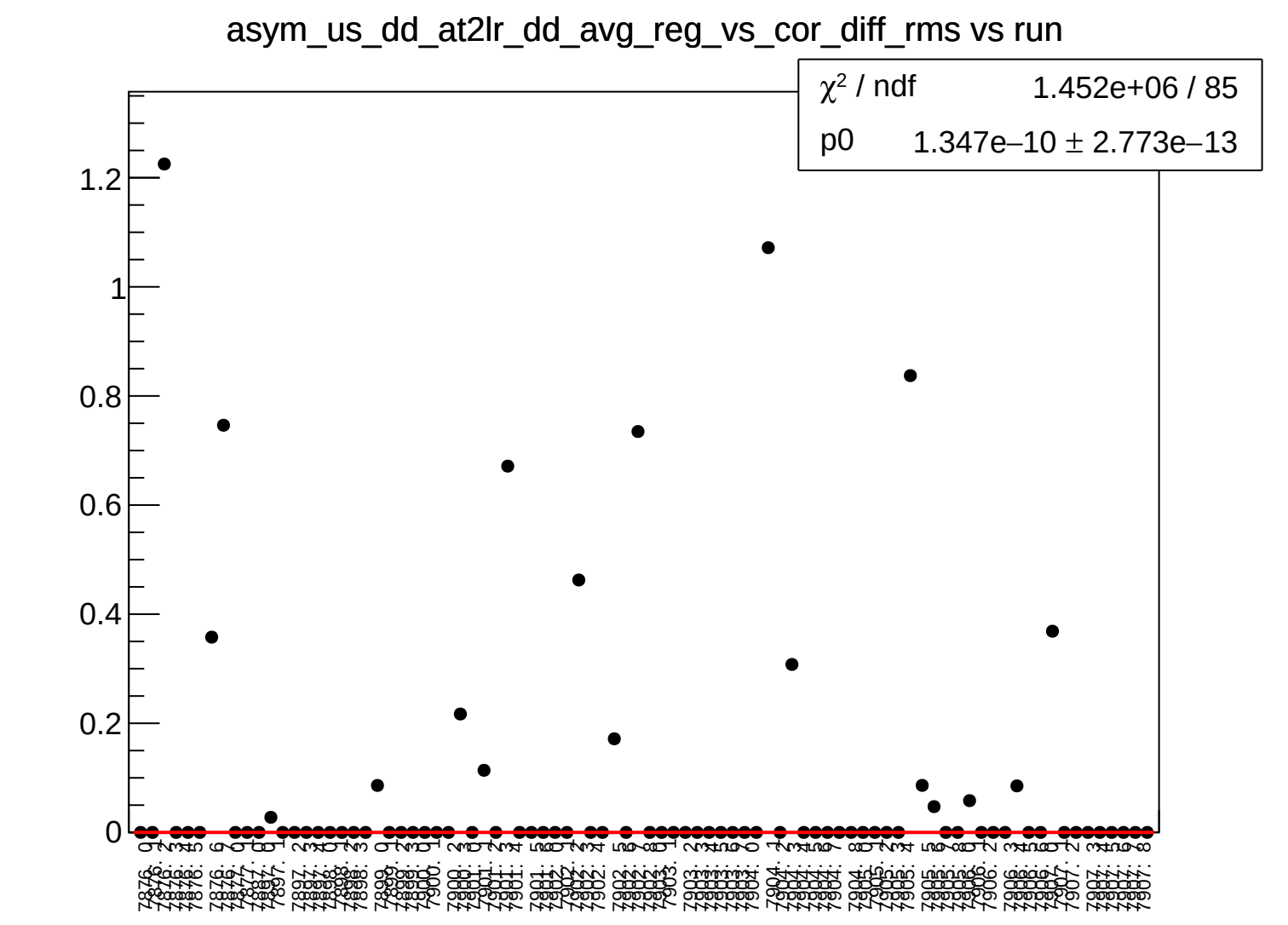

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.306e+04 / 85
p0 5244 ± 4.064
7000
6500
6000
5500
5000
4500

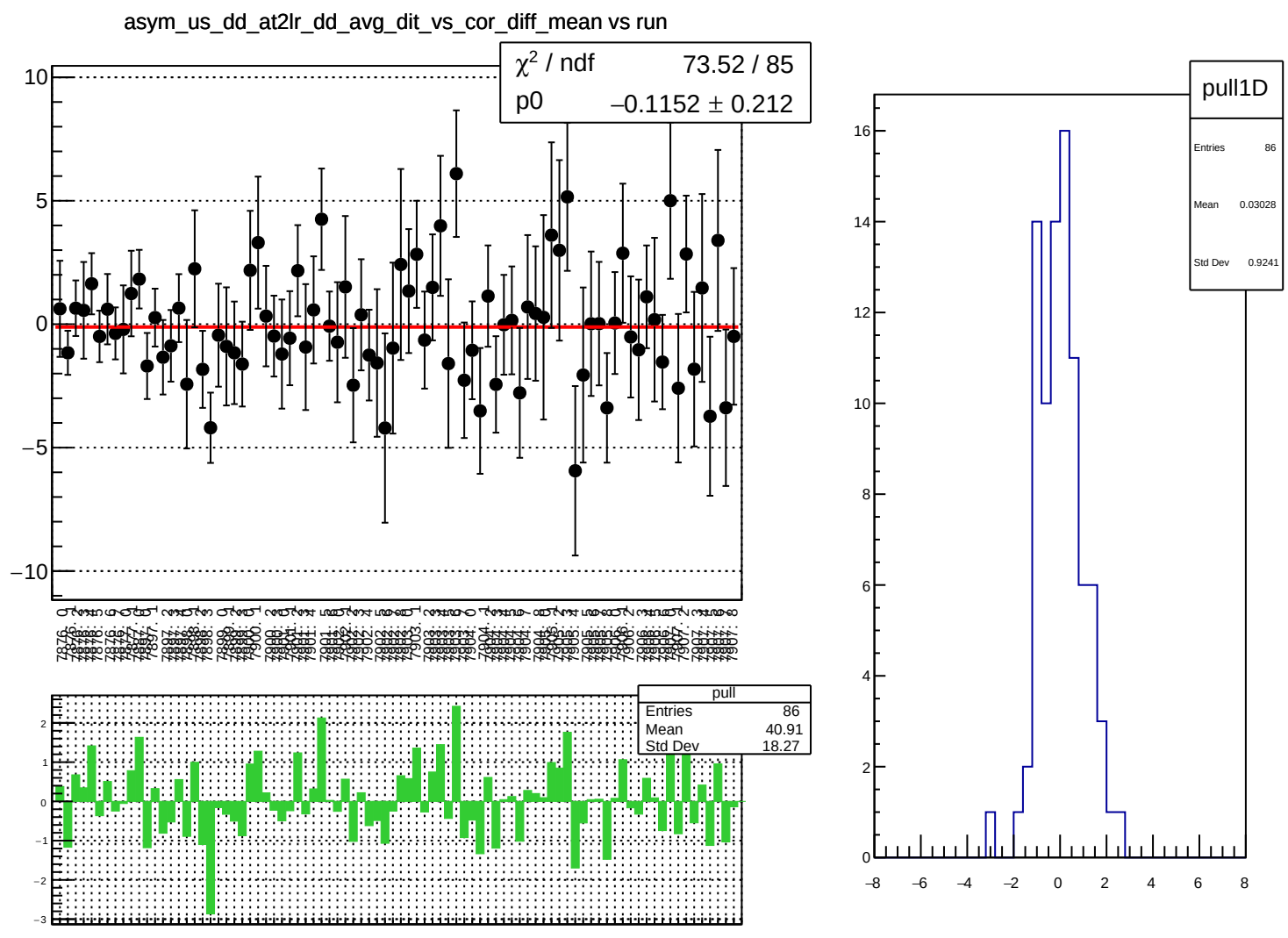

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 81.59 / 85
p0 8841 ± 6108
200
100
0
−100
−200
pull
Entries 86
Mean 61.55
Std Dev 76.75
2
1
0
−1
−2

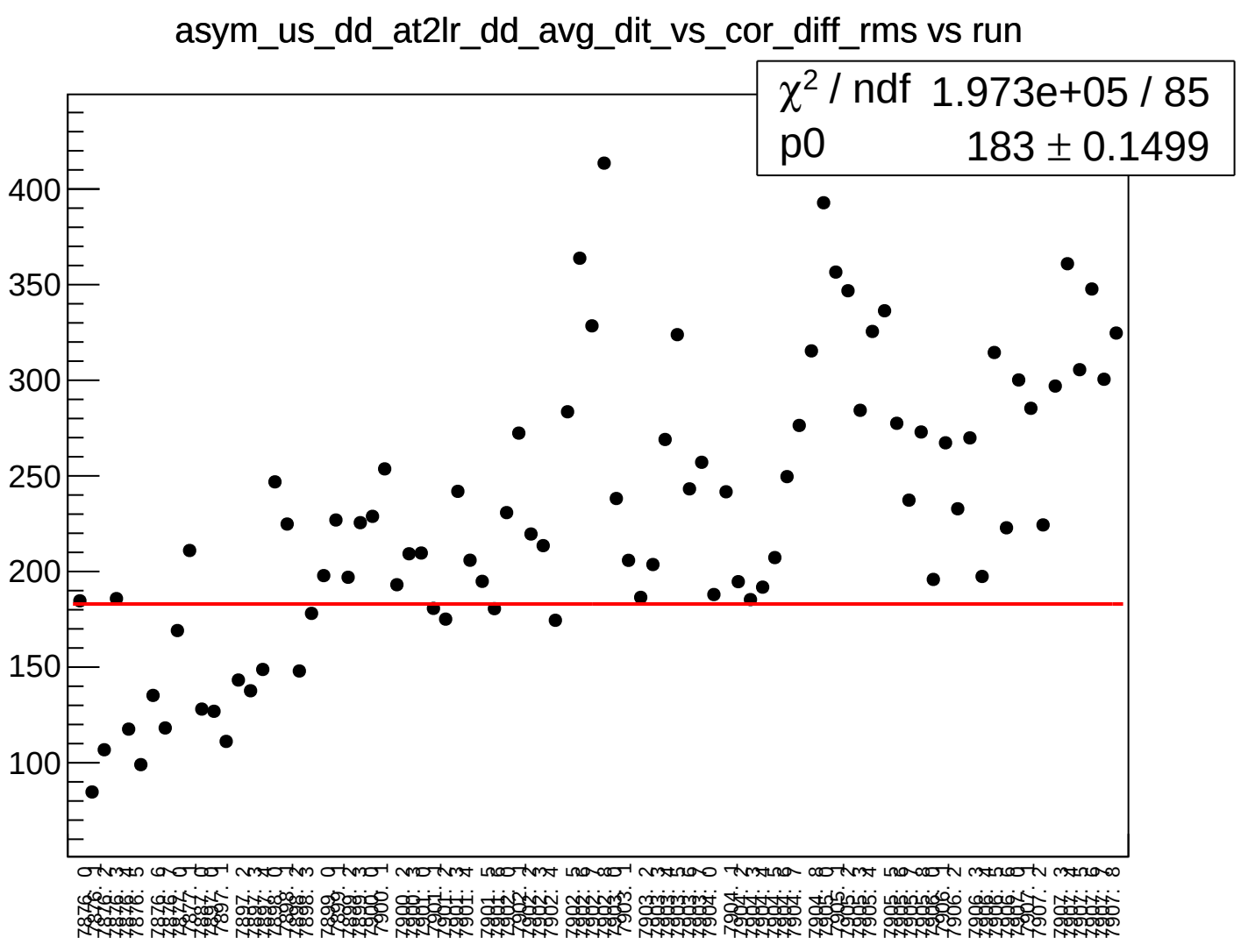

pull1D
Entries 86
Mean −0.007891
Std Dev 0.974
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

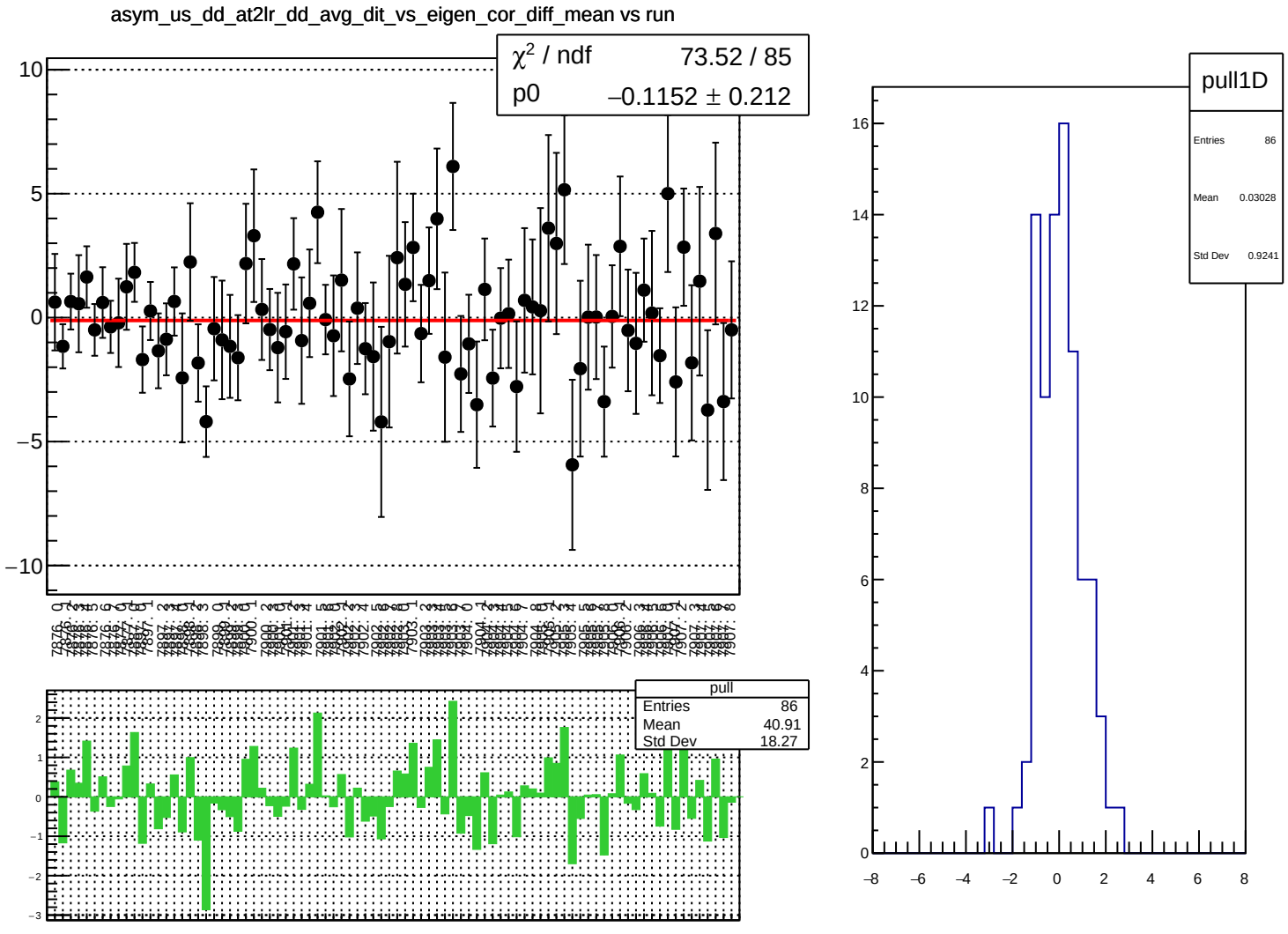

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.53e+04 / 85
p0 5585 ± 4.319
7000
6500
6000
5500
5000

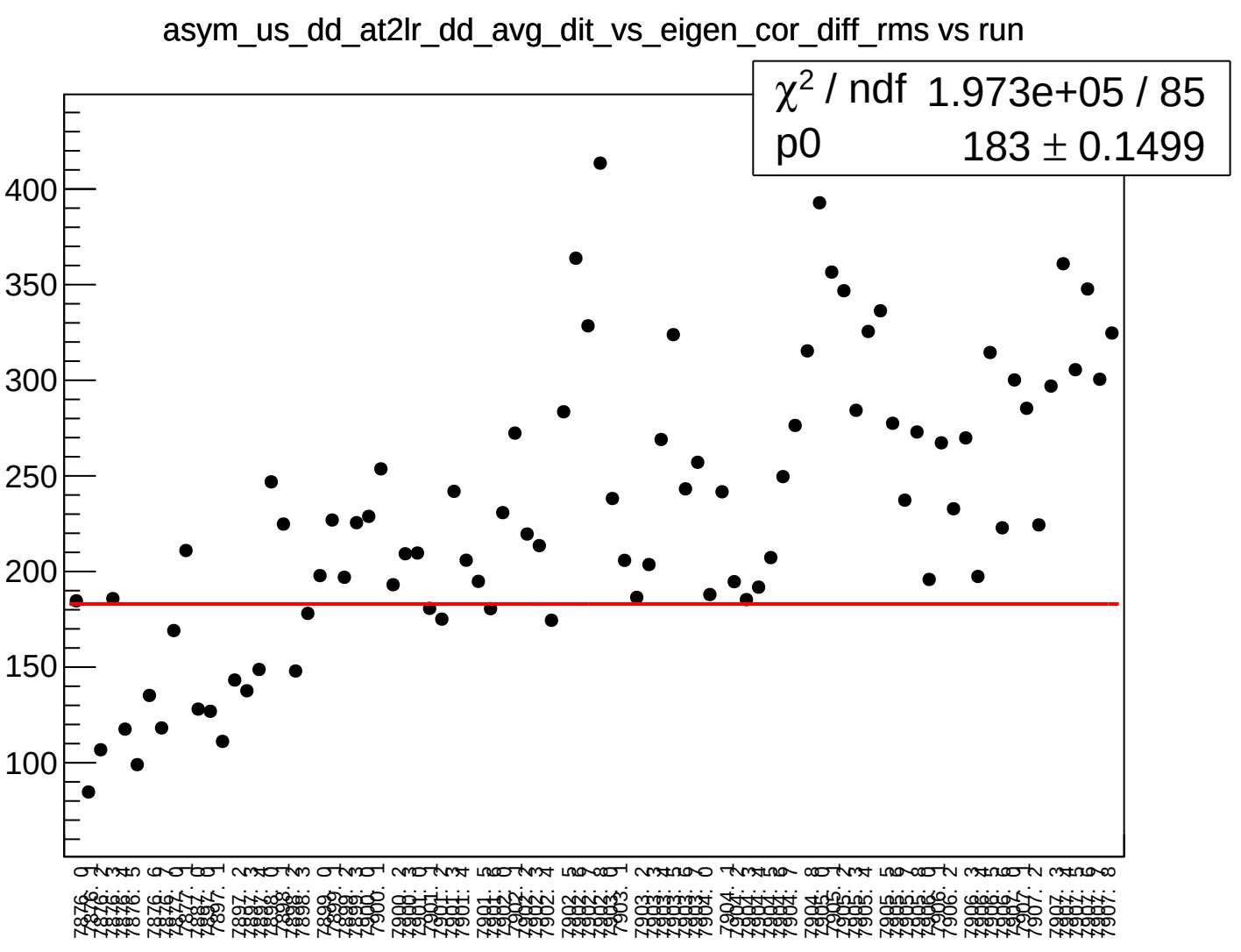

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.89 / 85
p0 −3.855e−13 ± 3.922e−13
pull
Entries 86
Mean −23.4
Std Dev 0
pull1D
Entries 86
Mean −0.03343
Std Dev 0.8944

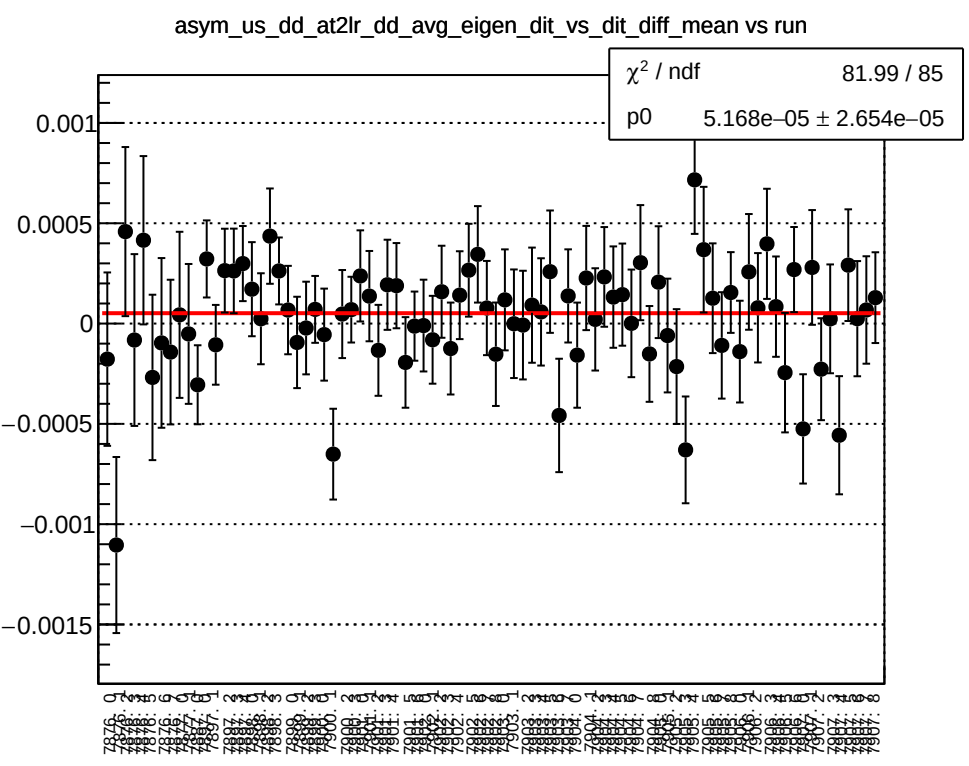

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.452e+06 / 85
p0 1.347e−10 ± 2.773e−13
1.2
1
0.8
0.6
0.4
0.2
0

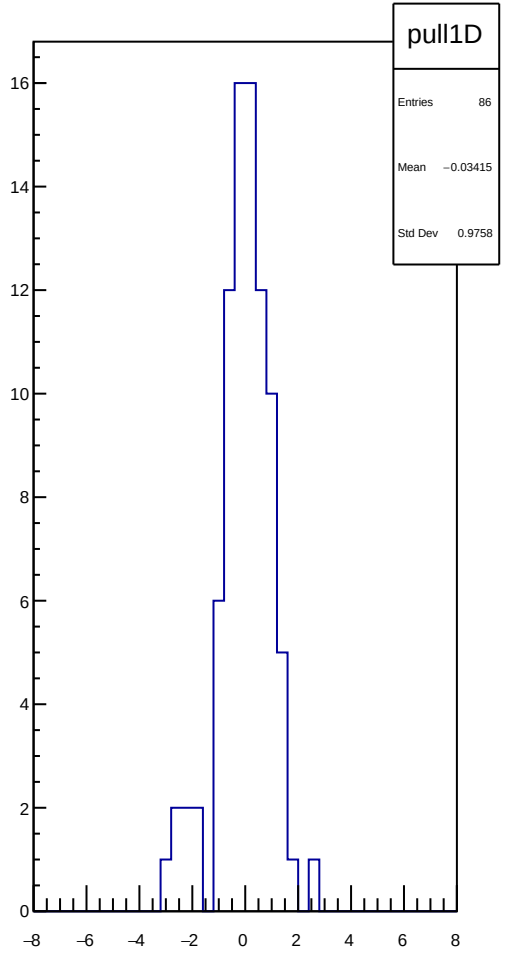

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.52 / 85
p0 −0.1152 ± 0.212
pull
Entries 86
Mean 40.91
Std Dev 18.27
pull1D
Entries 86
Mean 0.03028
Std Dev 0.9241

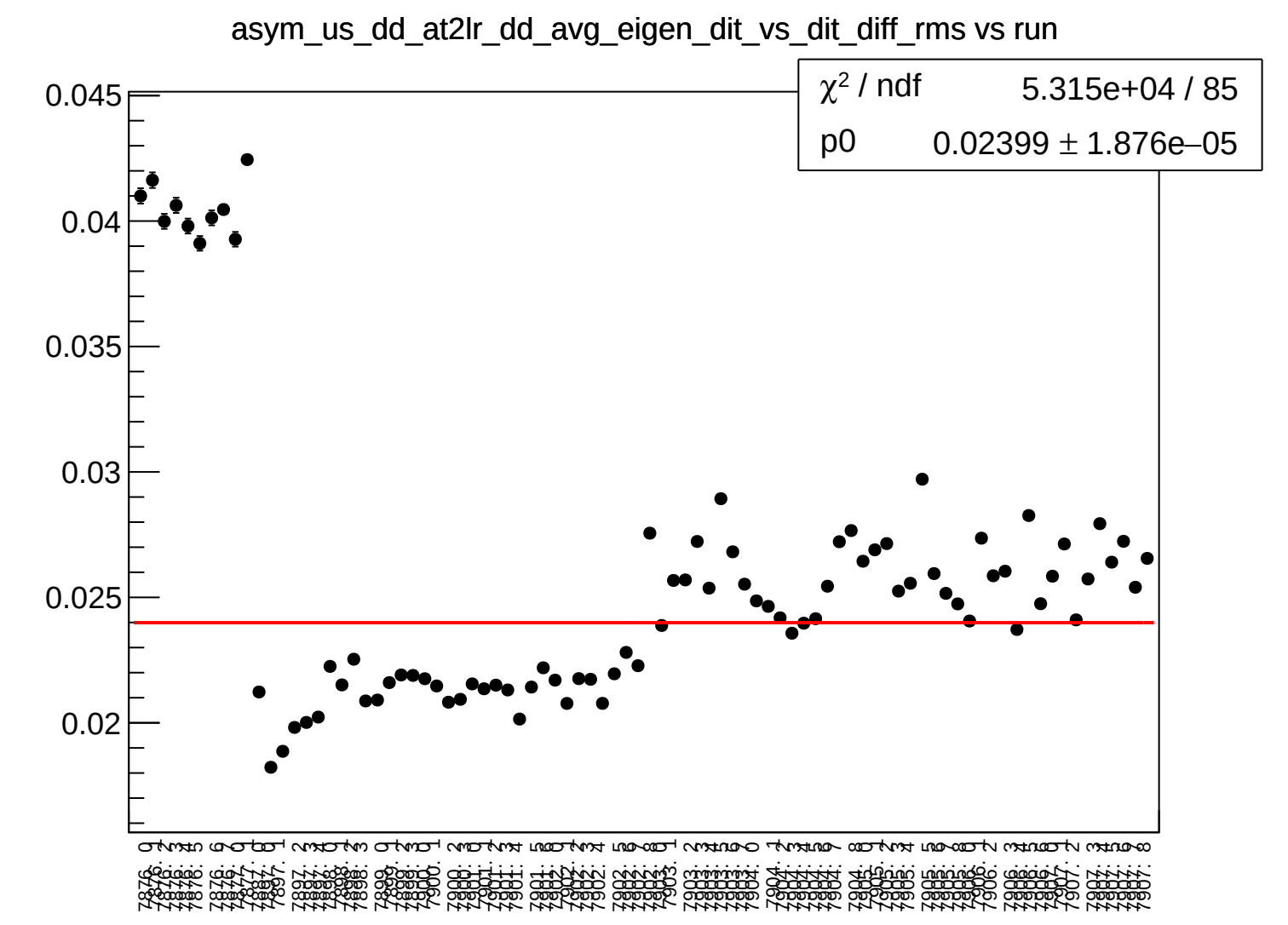

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.973e+05 / 85
p0 183 ± 0.1499
400
350
300
250
200
150
100

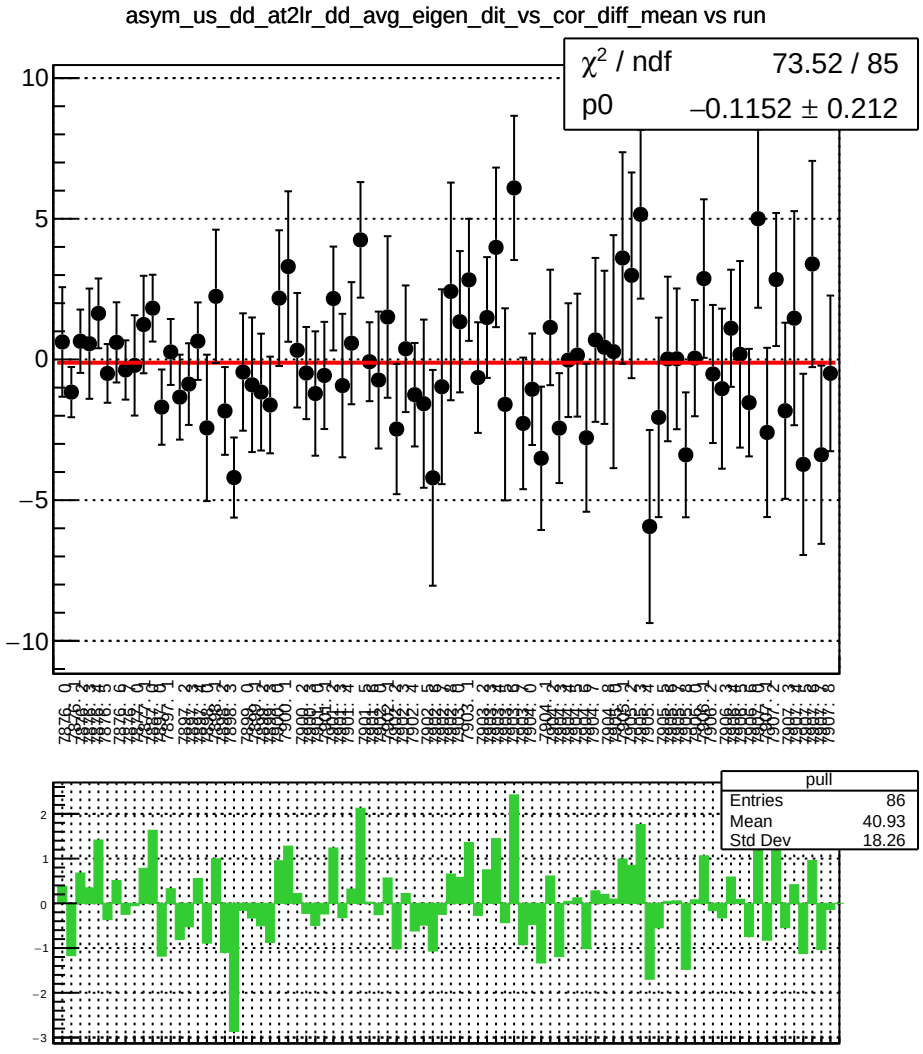

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.52 / 85
p0 −0.1152 ± 0.212
pull
Entries 86
Mean 40.91
Std Dev 18.27
pull1D
Entries 86
Mean 0.03028
Std Dev 0.9241

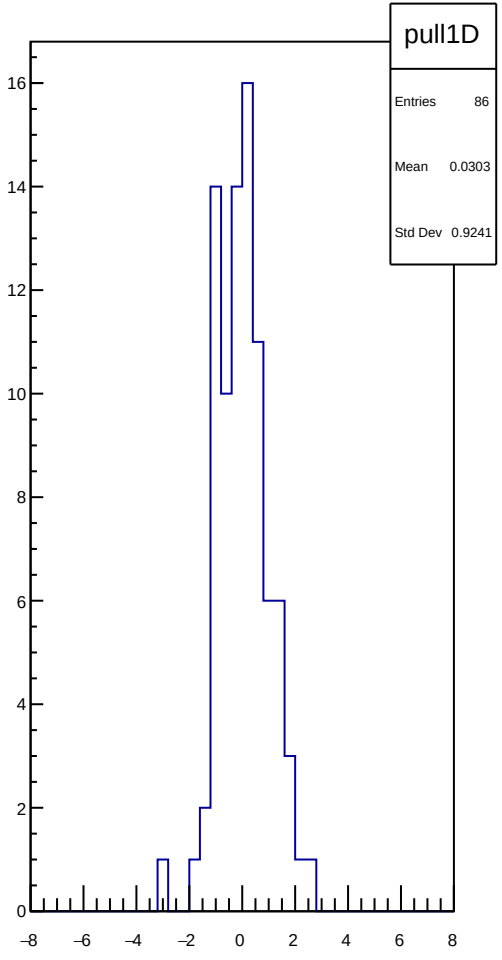

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.973e+05 / 85
p0 183 ± 0.1499
400
350
300
250
200
150
100

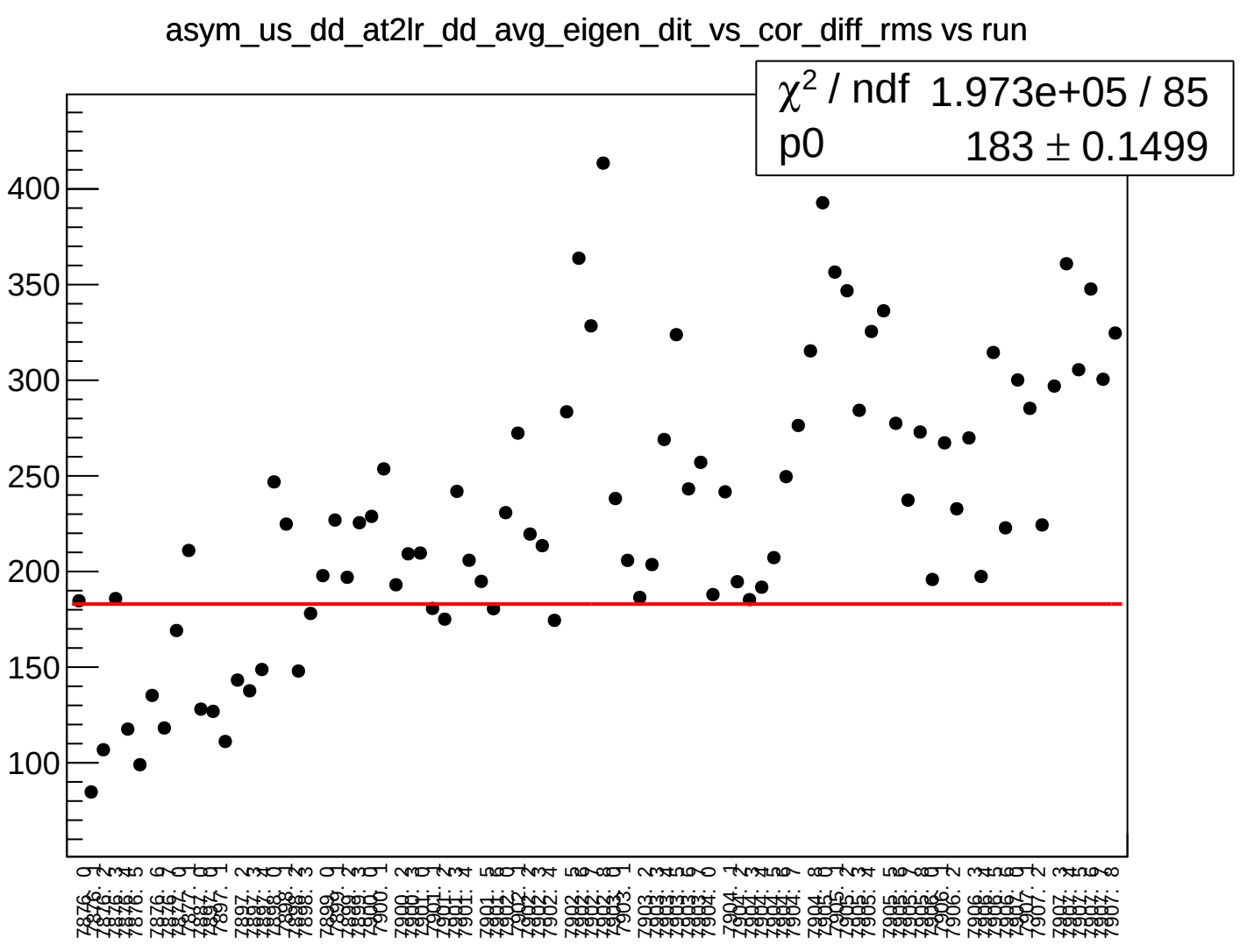

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 81.99 / 85
p0 5.168e−05 ± 2.654e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean 34.42
Std Dev 44
2
1
0
−1
−2
−3

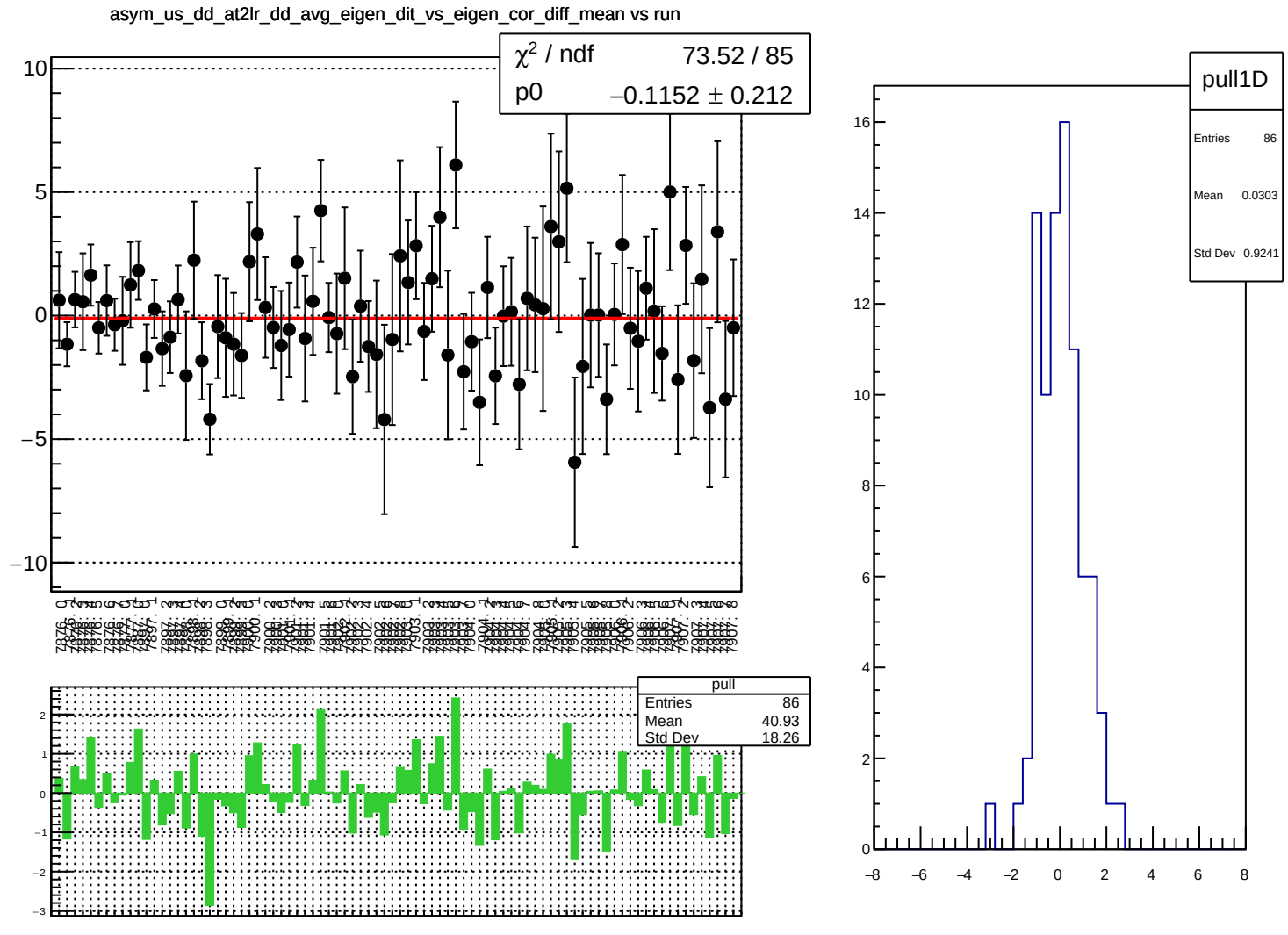

pull1D
Entries 86
Mean −0.03415
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

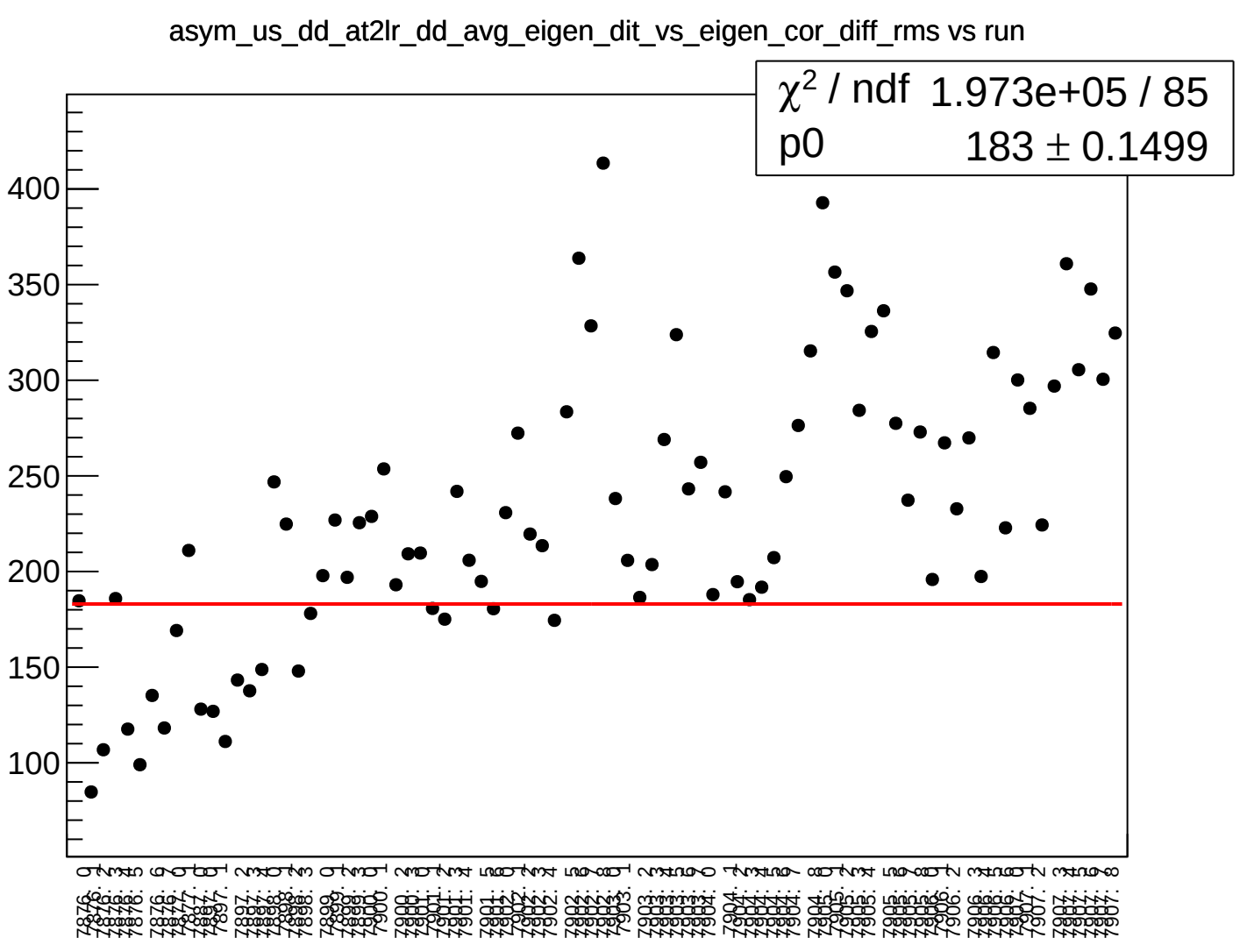

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.315e+04 / 85
p0 0.02399 ± 1.876e−05
0.045
0.04
0.035
0.03
0.025
0.02

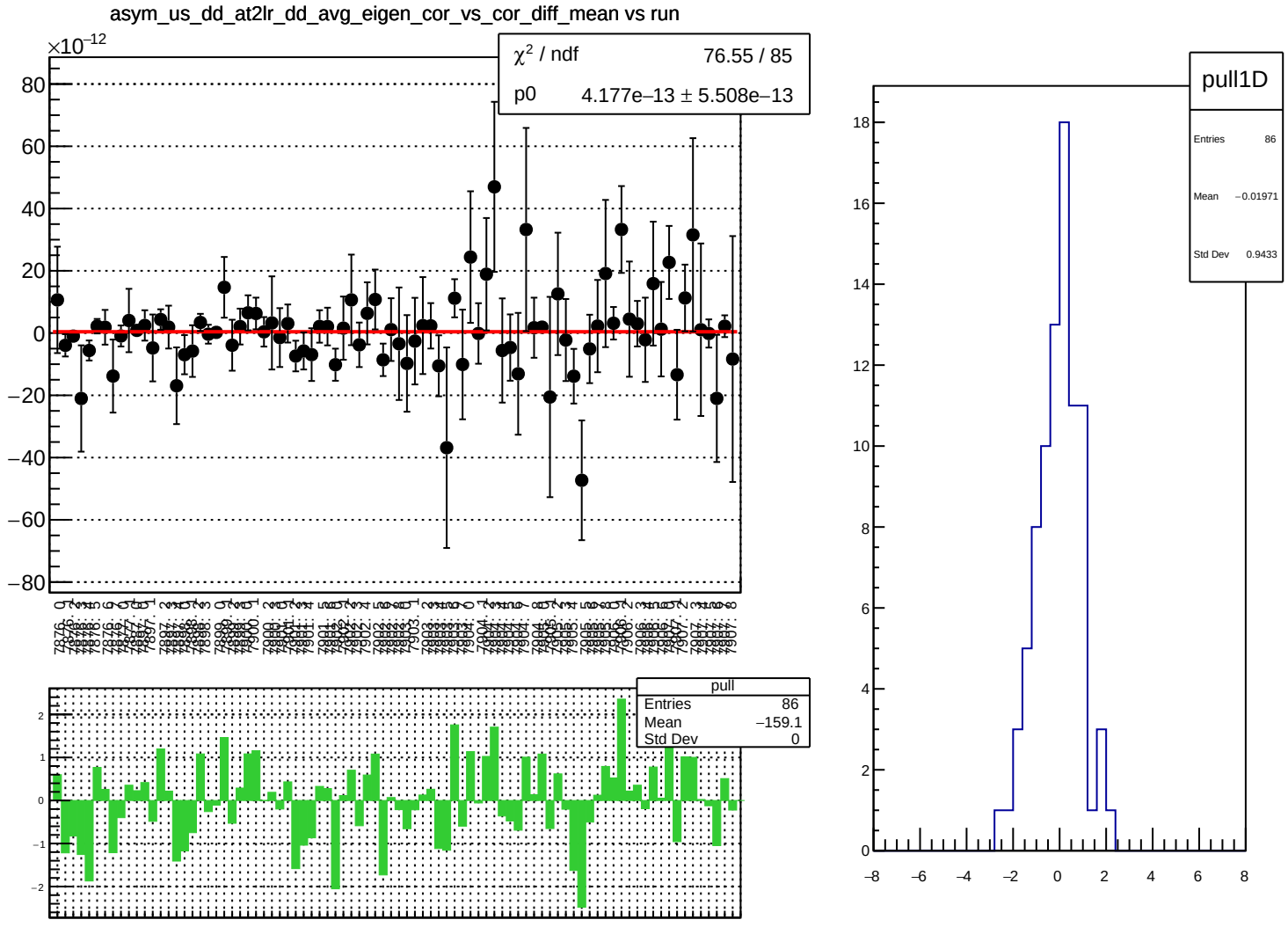

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.52 / 85
p0 −0.1152 ± 0.212
pull
Entries 86
Mean 40.93
Std Dev 18.26

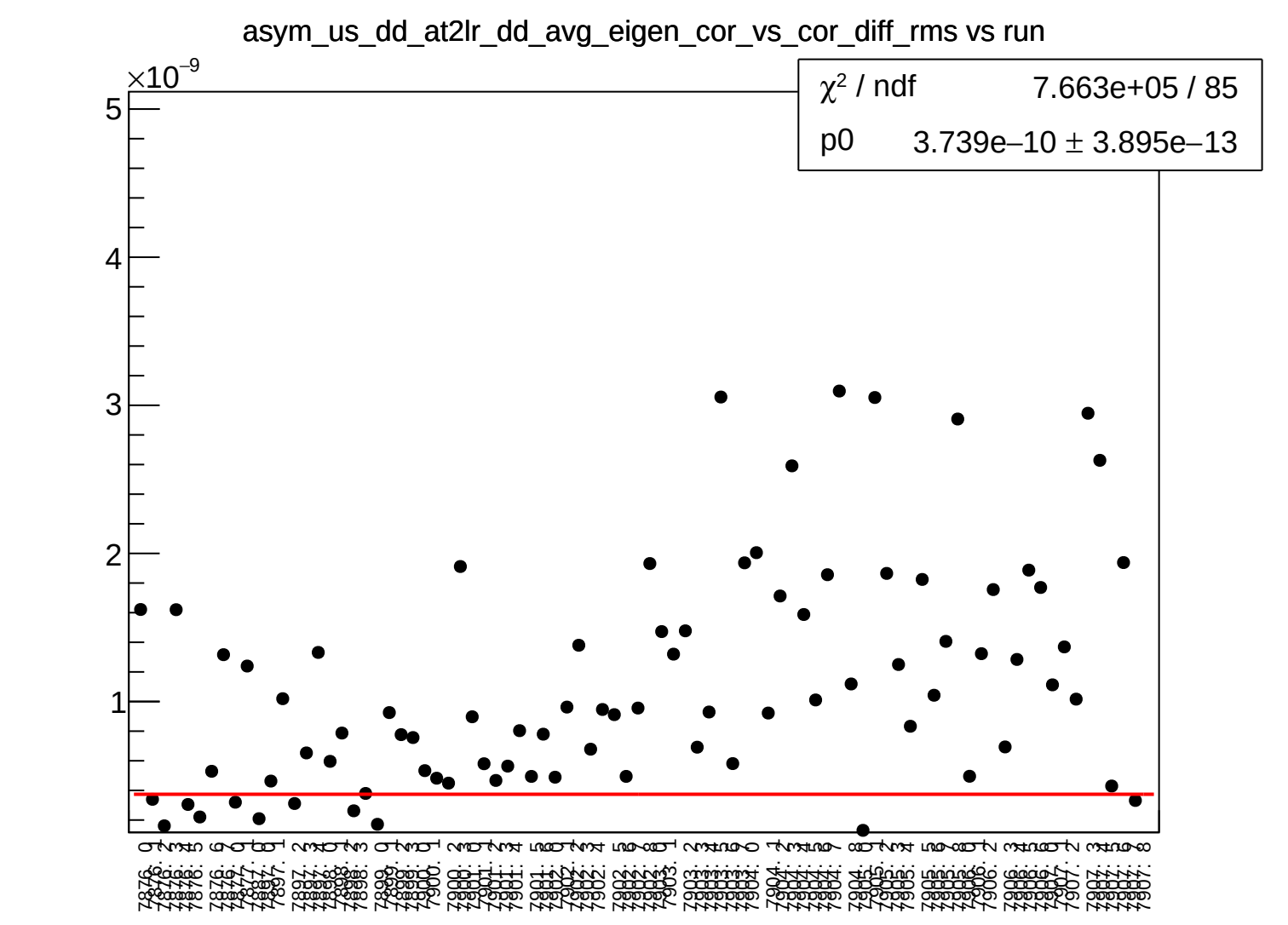

pull1D
Entries 86
Mean 0.0303
Std Dev 0.9241

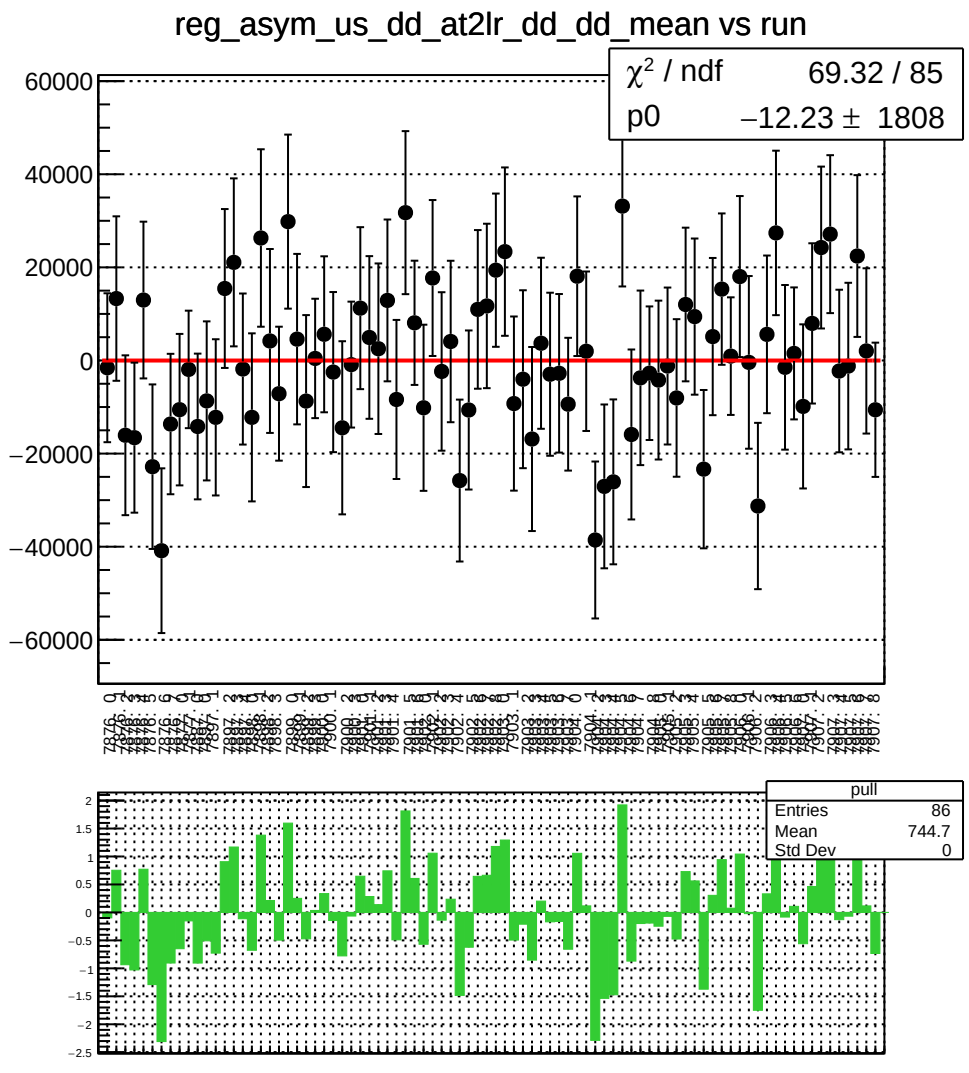

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.973e+05 / 85
p0 183 ± 0.1499
400
350
300
250
200
150
100

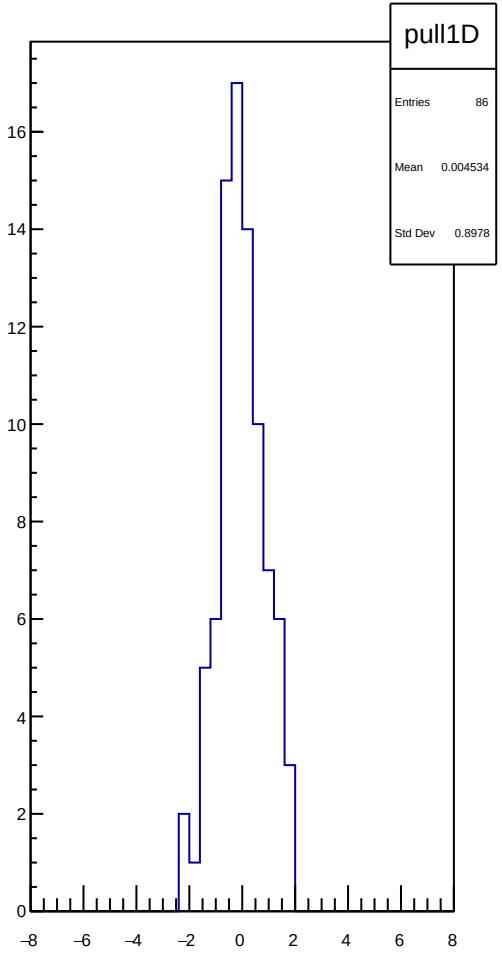

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.52 / 85
p0 −0.1152 ± 0.212
pull
Entries 86
Mean 40.93
Std Dev 18.26
pull1D
Entries 86
Mean 0.0303
Std Dev 0.9241

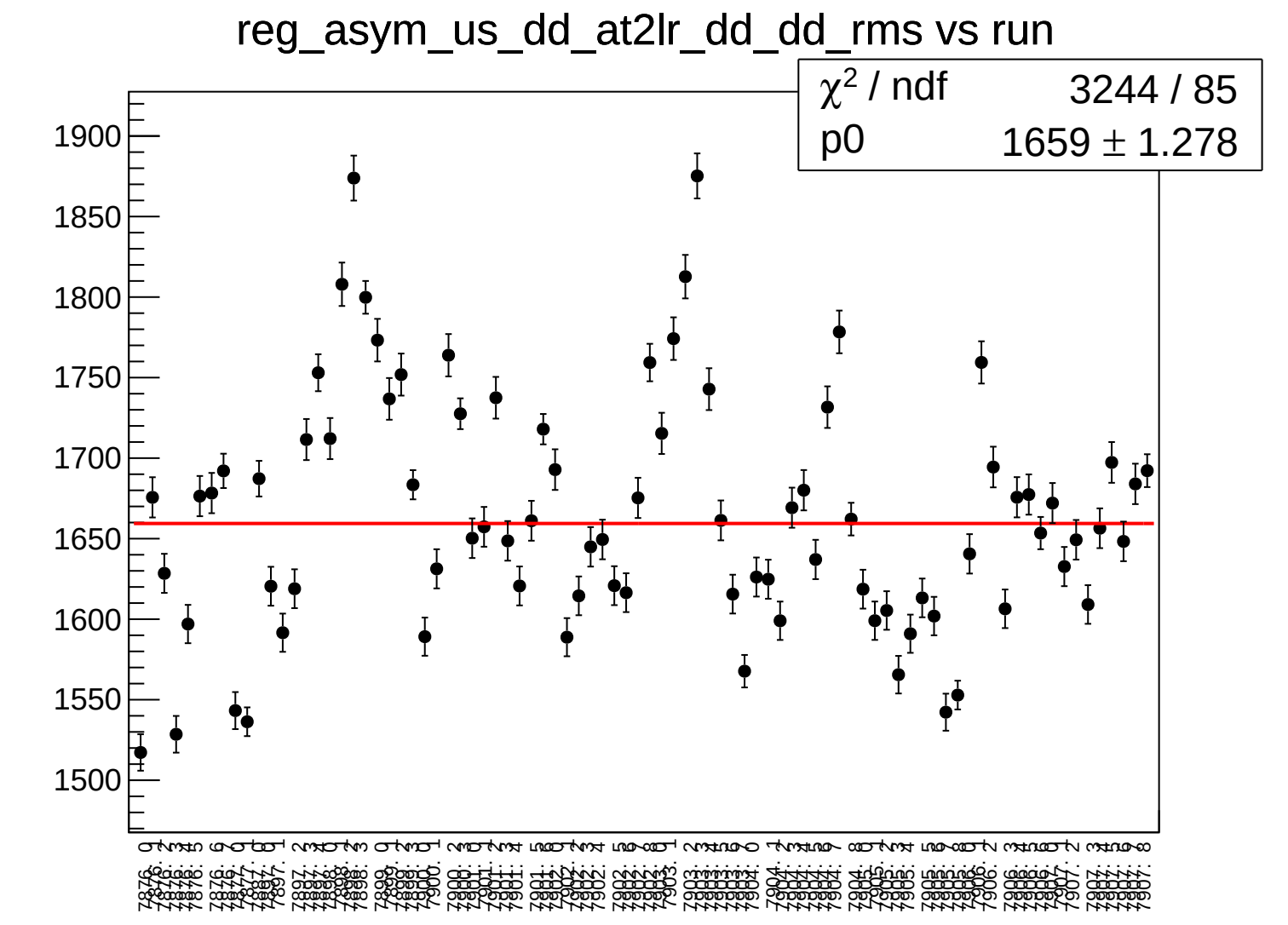

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.973e+05 / 85
p0 183 ± 0.1499
400
350
300
250
200
150
100

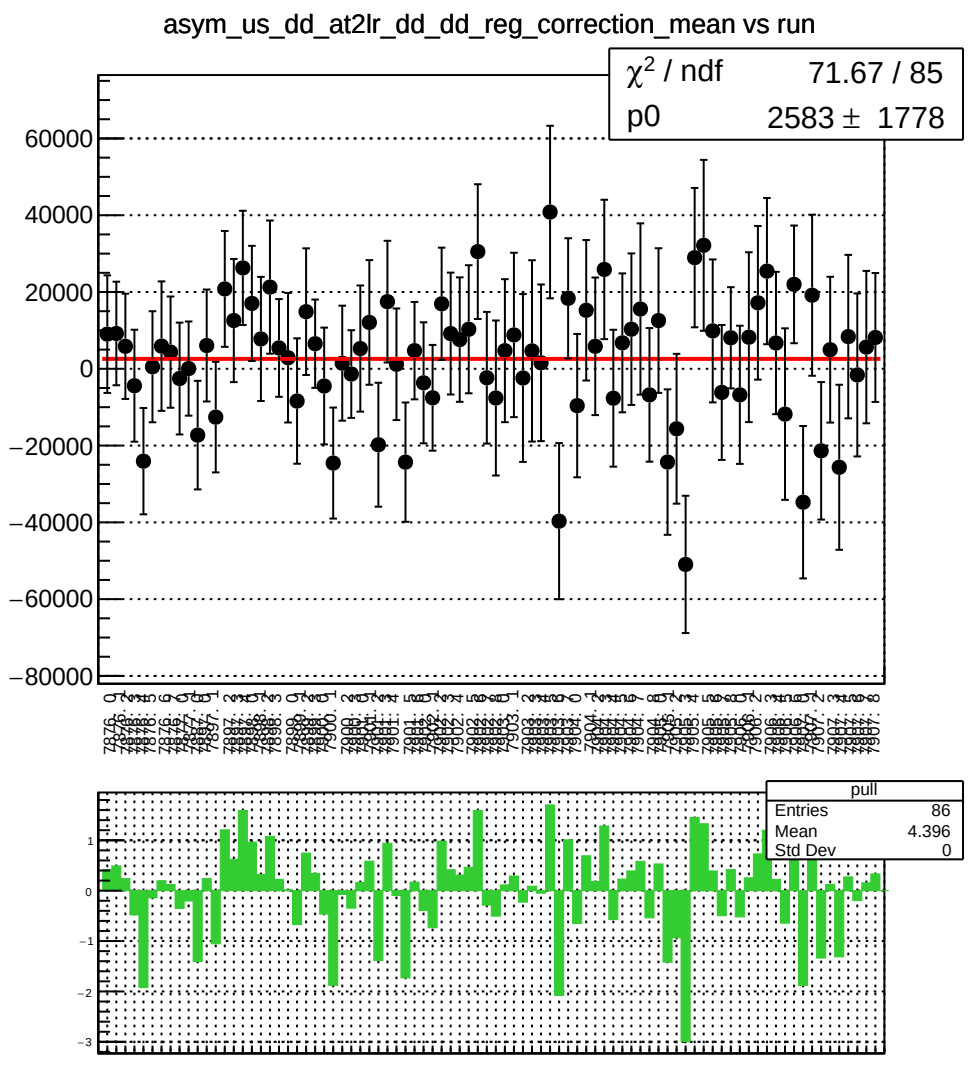

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.55 / 85
p0 4.177e−13 ± 5.508e−13
pull
Entries 86
Mean −159.1
Std Dev 0
pull1D
Entries 86
Mean −0.01971
Std Dev 0.9433

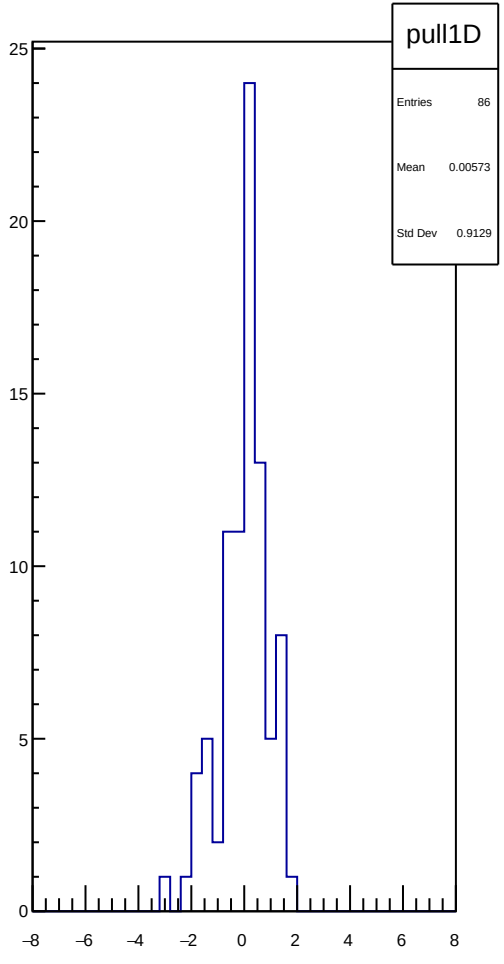

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.663e+05 / 85
p0 3.739e−10 ± 3.895e−13
5
4
3
2
1

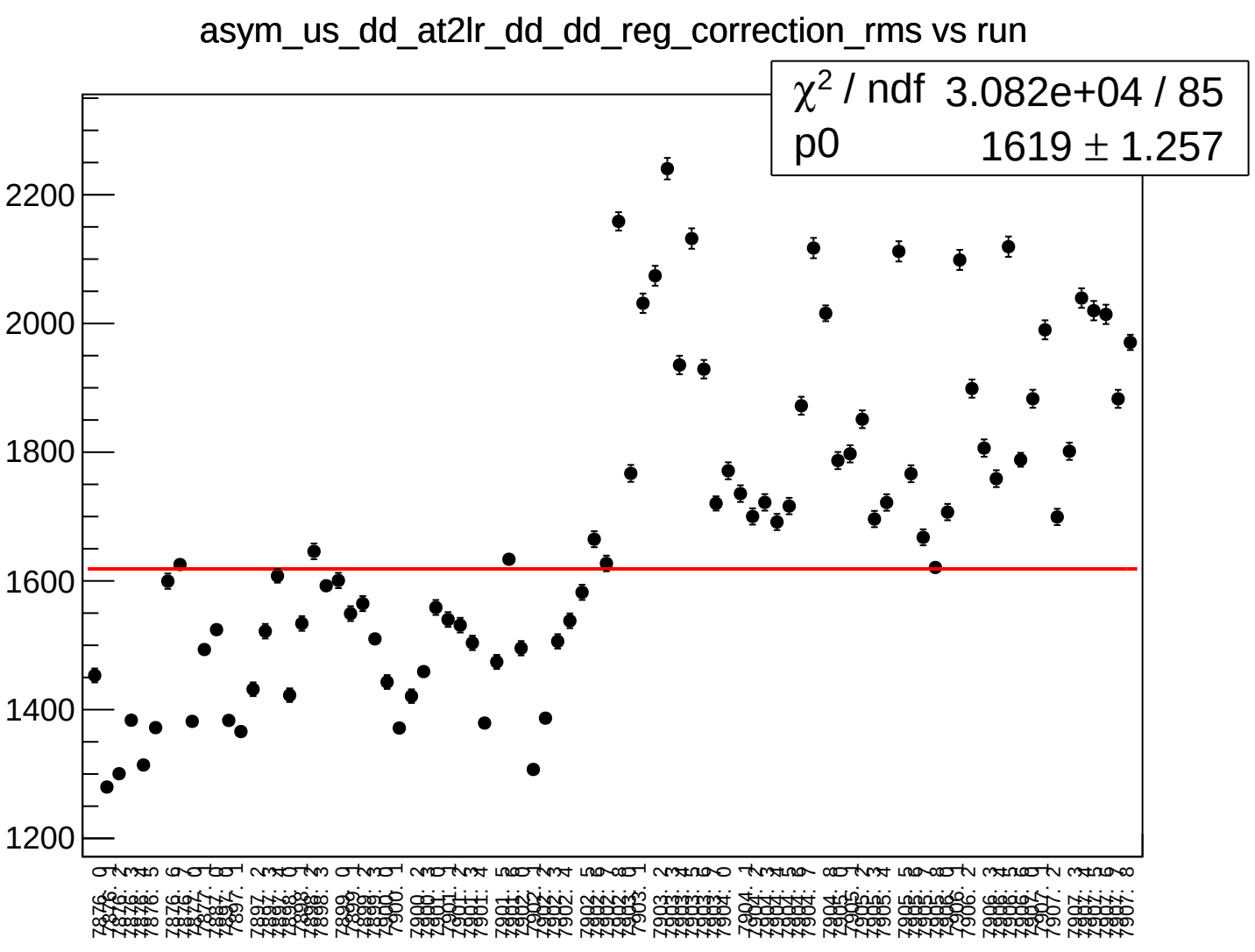

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 69.32 / 85
p0 −12.23 ± 1808
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 744.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

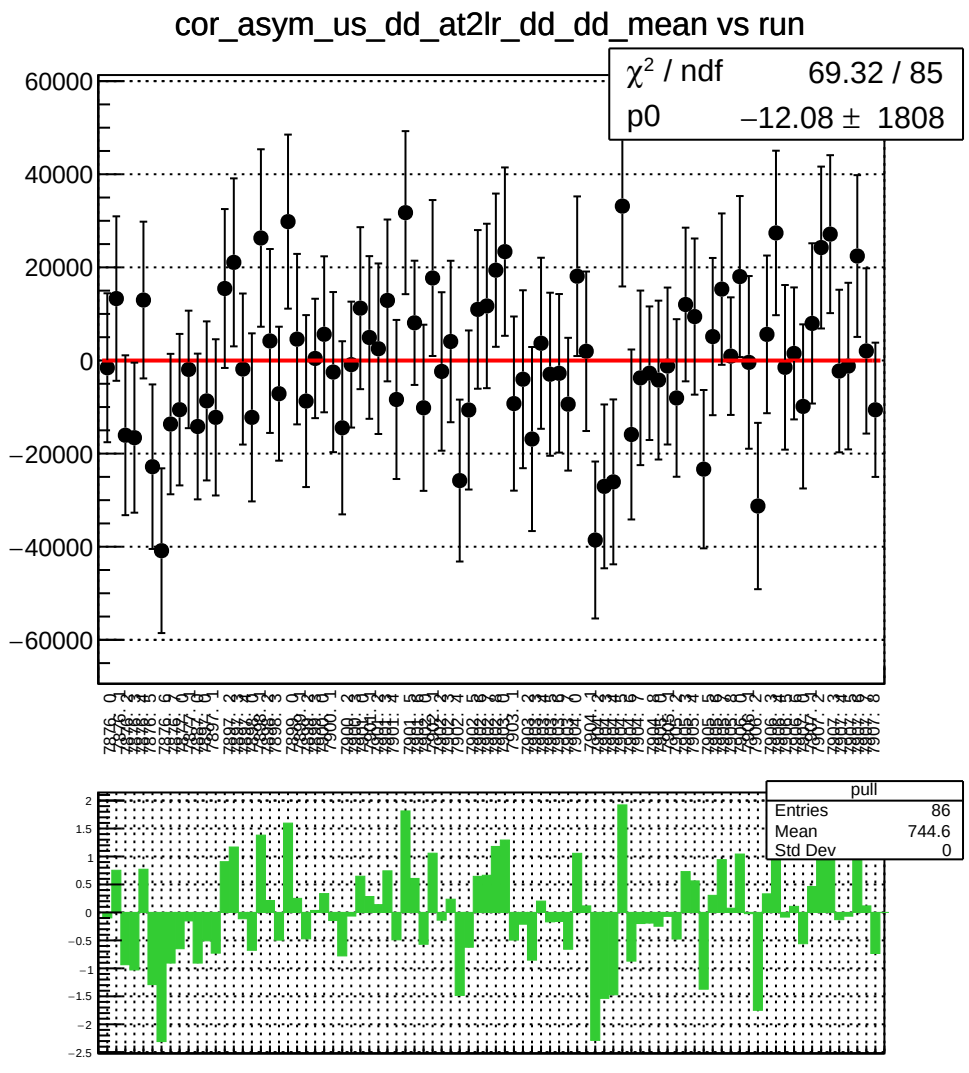

pull1D
Entries 86
Mean 0.004534
Std Dev 0.8978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

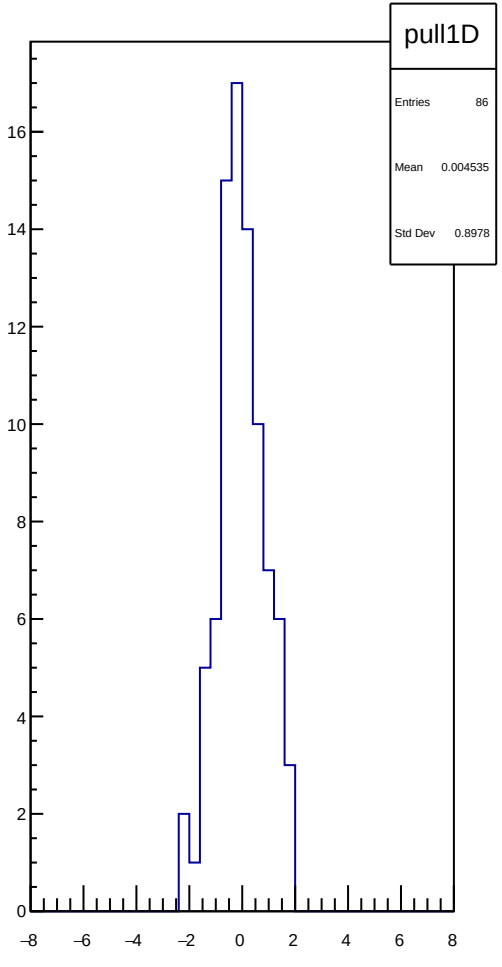

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3244 / 85
p0 1659 ± 1.278
1900
1850
1800
1750
1700
1650
1600
1550
1500

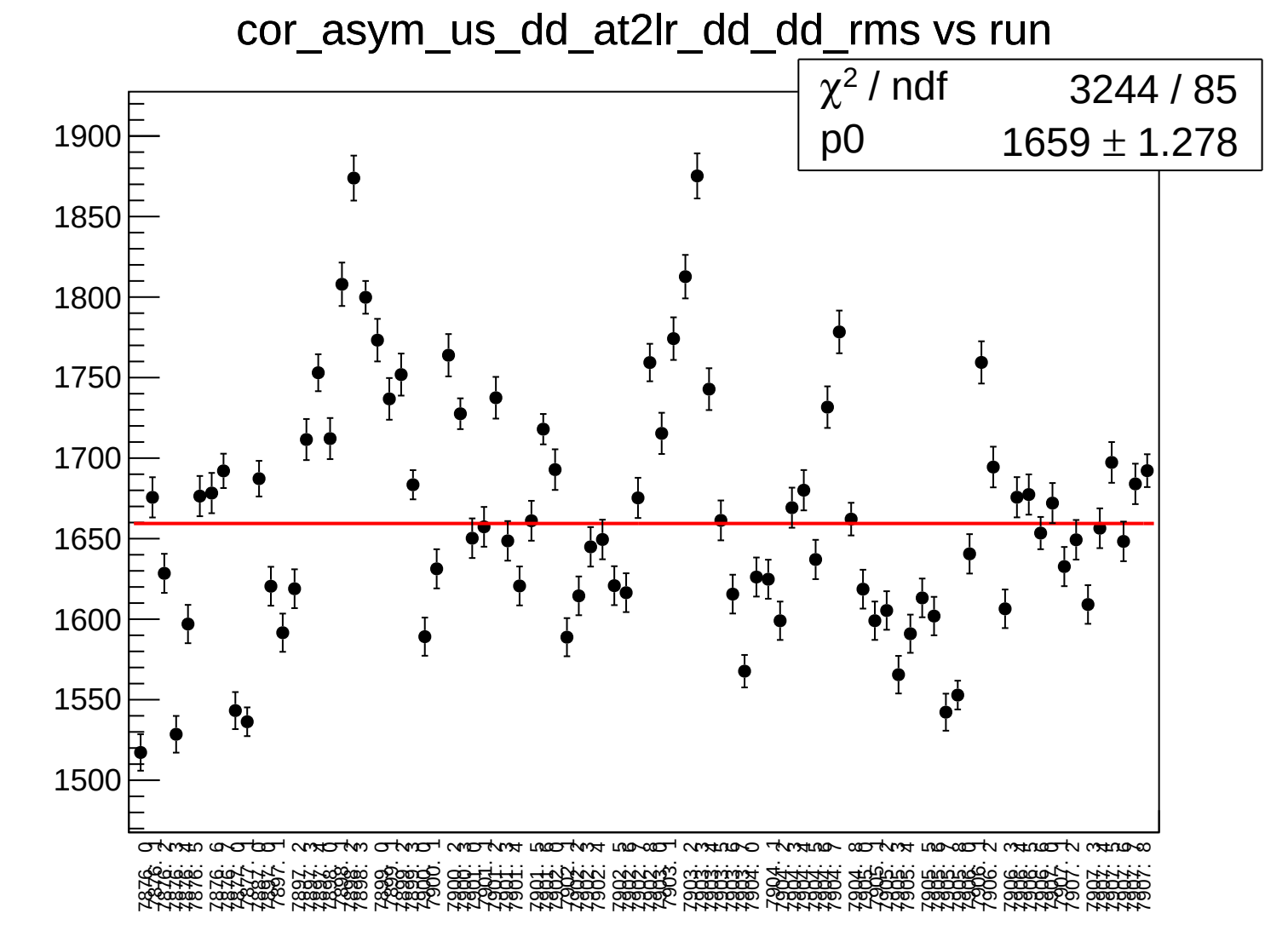

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 71.67 / 85
p0 2583 ± 1778
pull
Entries 86
Mean 4.396
Std Dev 0

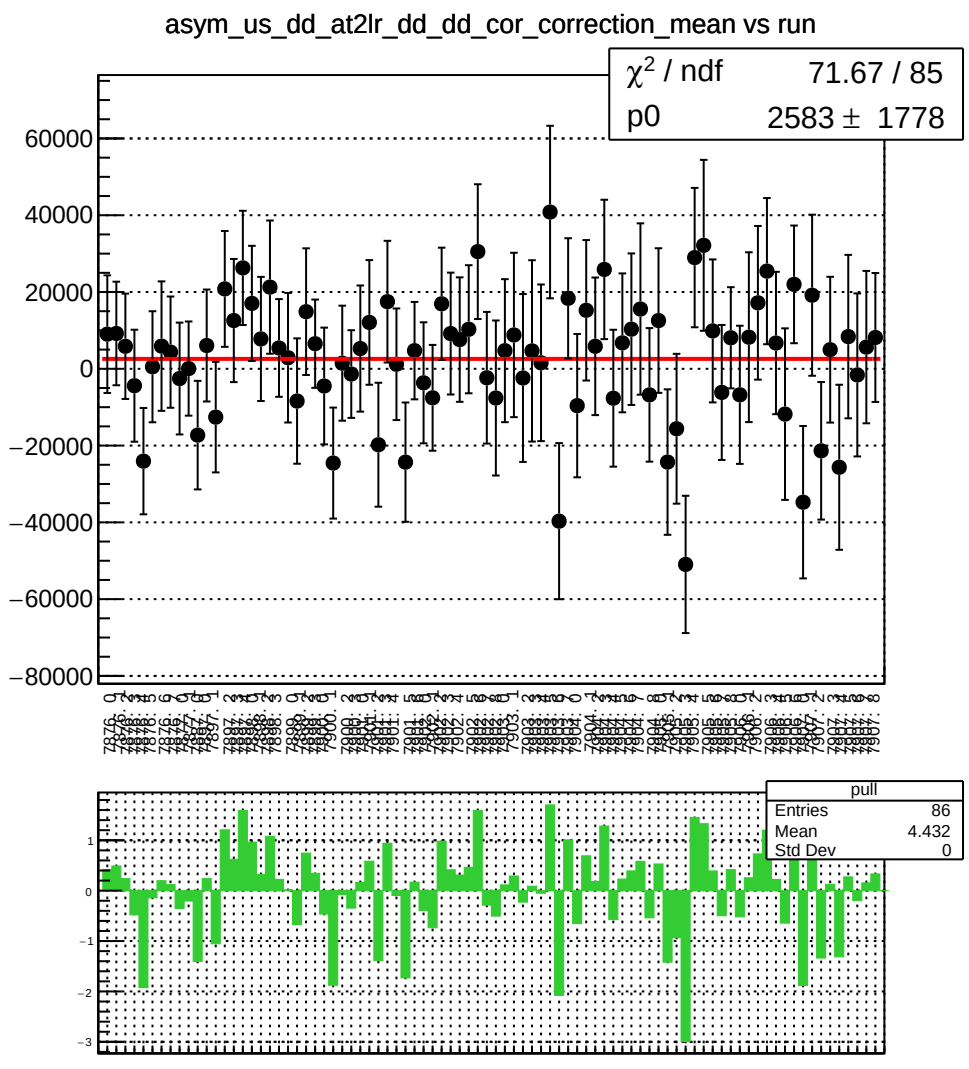

pull1D
Entries 86
Mean 0.00573
Std Dev 0.9129

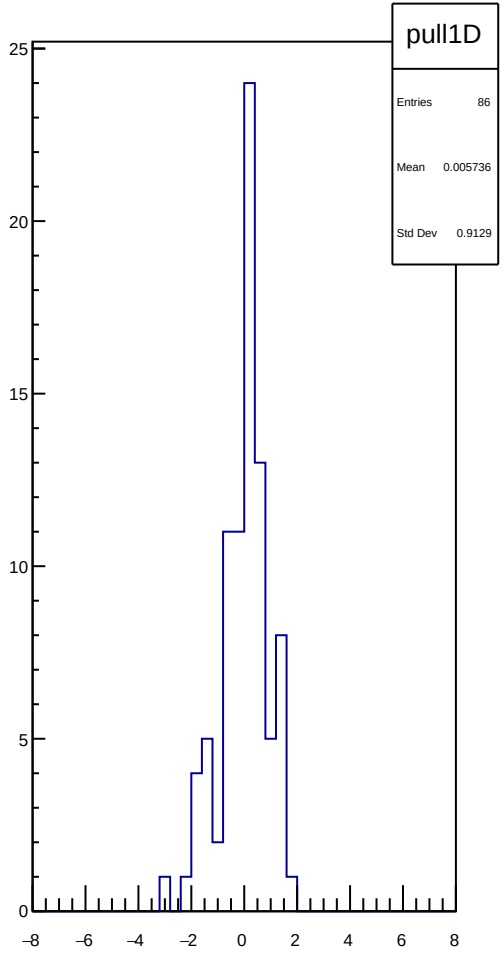

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3.082e+04 / 85
p0 1619 ± 1.257
2200
2000
1800
1600
1400
1200

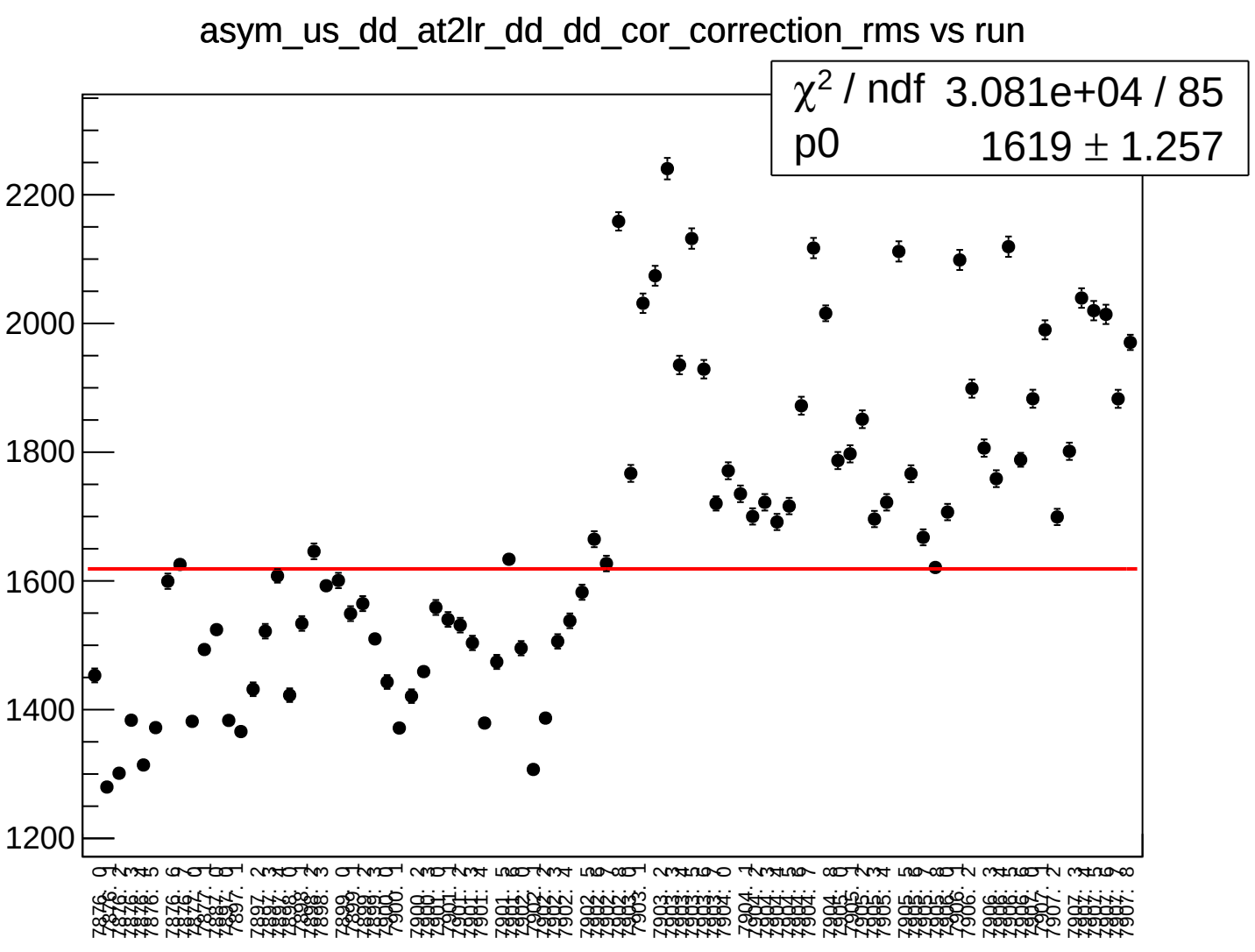

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 69.32 / 85
p0 −12.08 ± 1808
pull
Entries 86
Mean 744.6
Std Dev 0

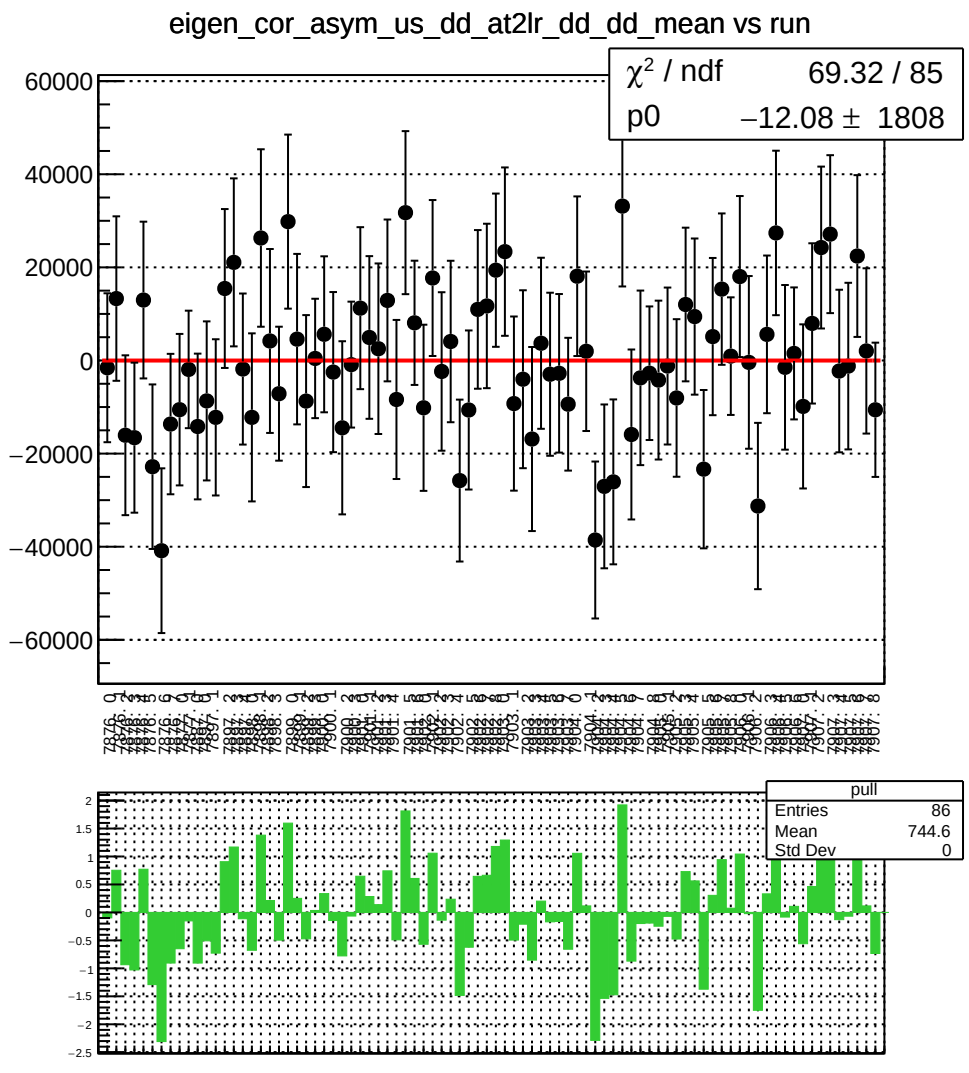

pull1D
Entries 86
Mean 0.004535
Std Dev 0.8978

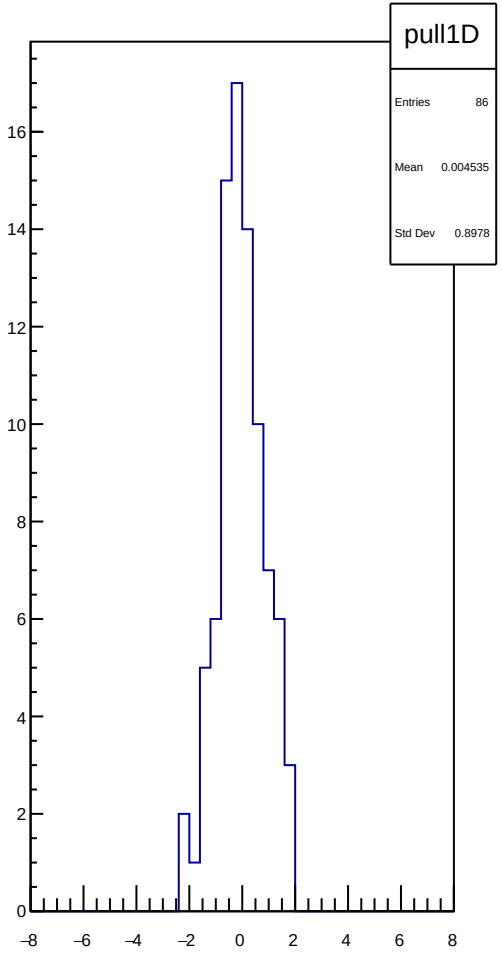

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 3244 / 85
p0 1659 ± 1.278
1900
1850
1800
1750
1700
1650
1600
1550
1500

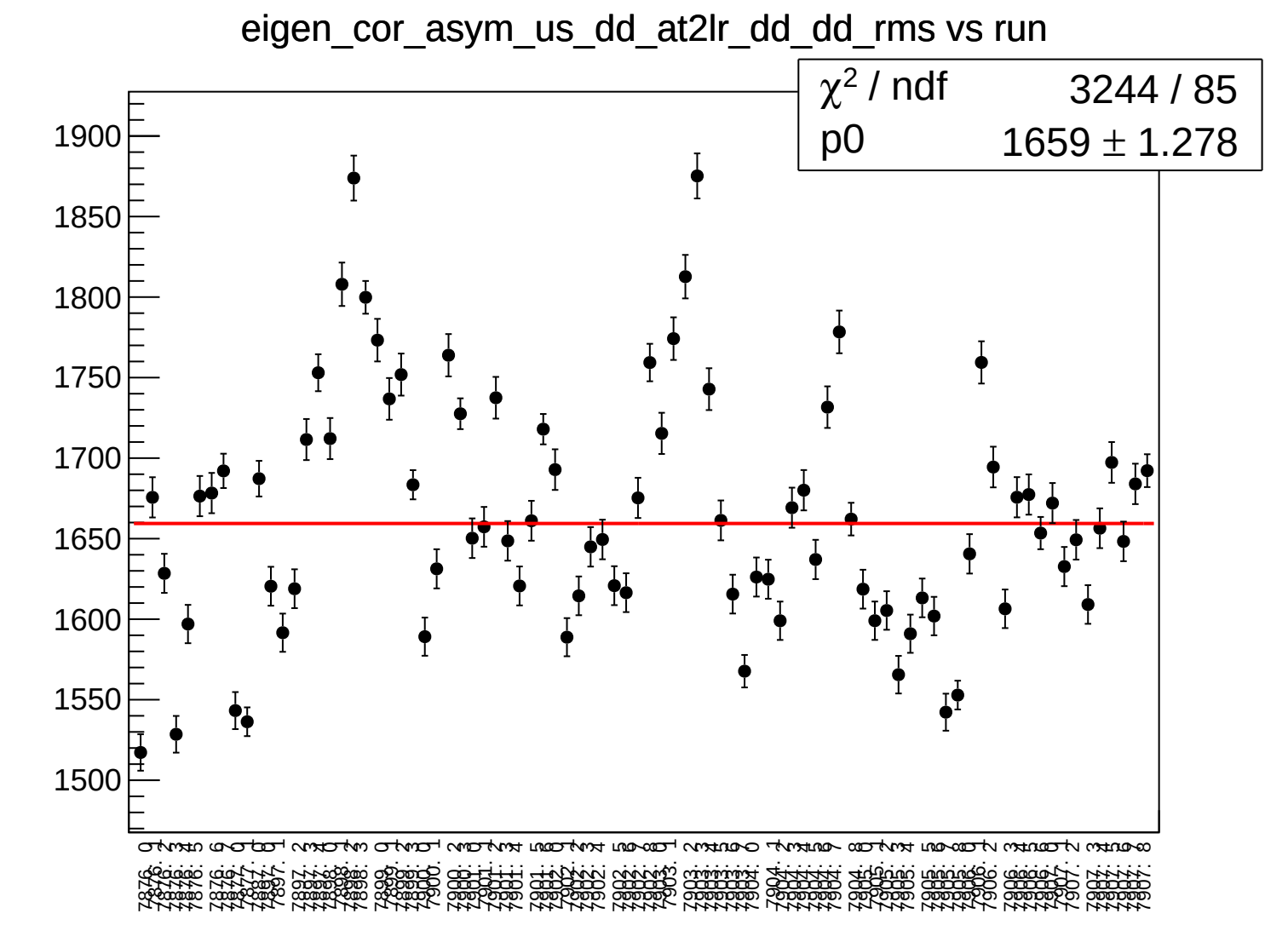

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 71.67 / 85
p0 2583 ± 1778
pull
Entries 86
Mean 4.432
Std Dev 0

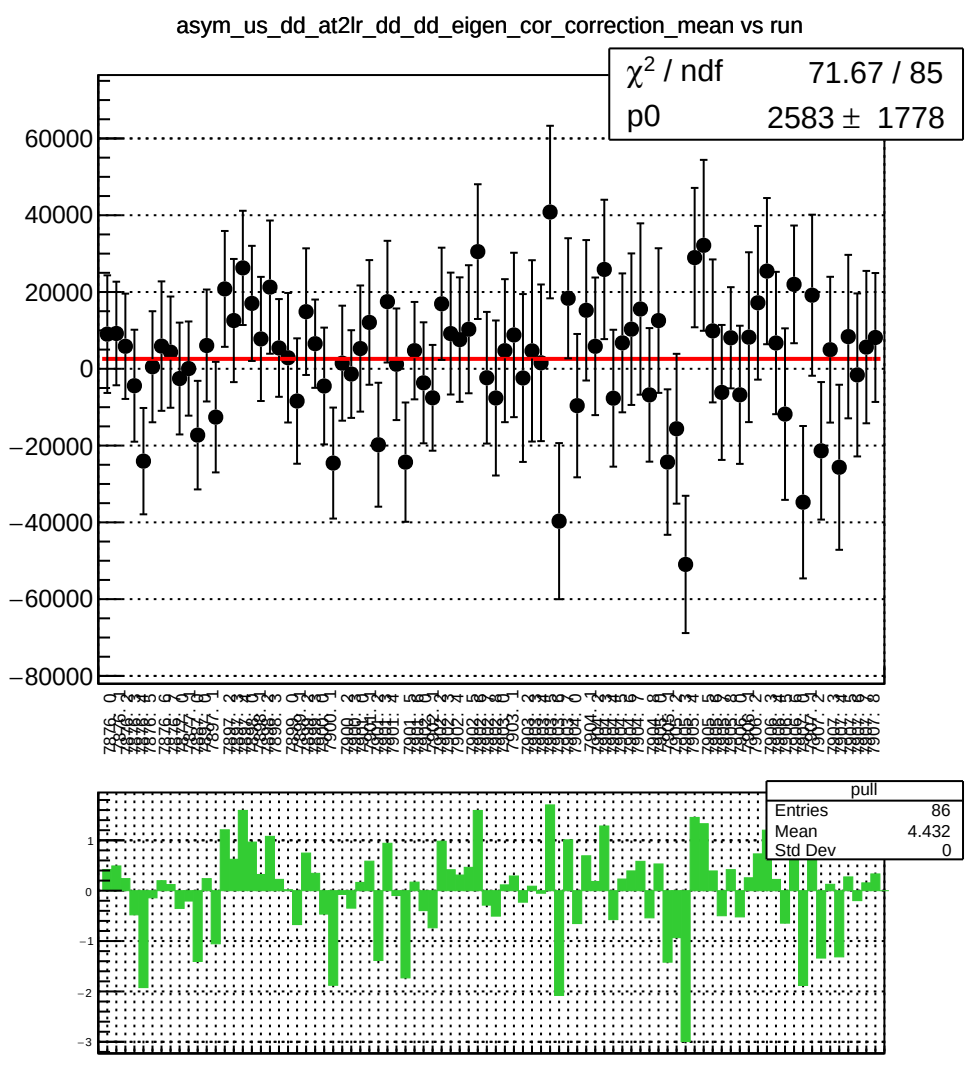

pull1D
Entries 86
Mean 0.005736
Std Dev 0.9129

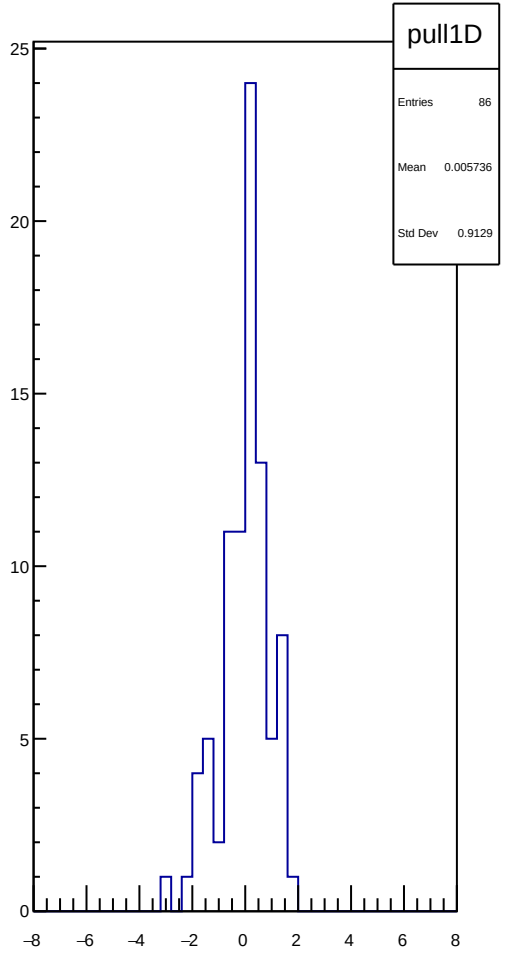

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3.081e+04 / 85
p0 1619 ± 1.257
2200
2000
1800
1600
1400
1200

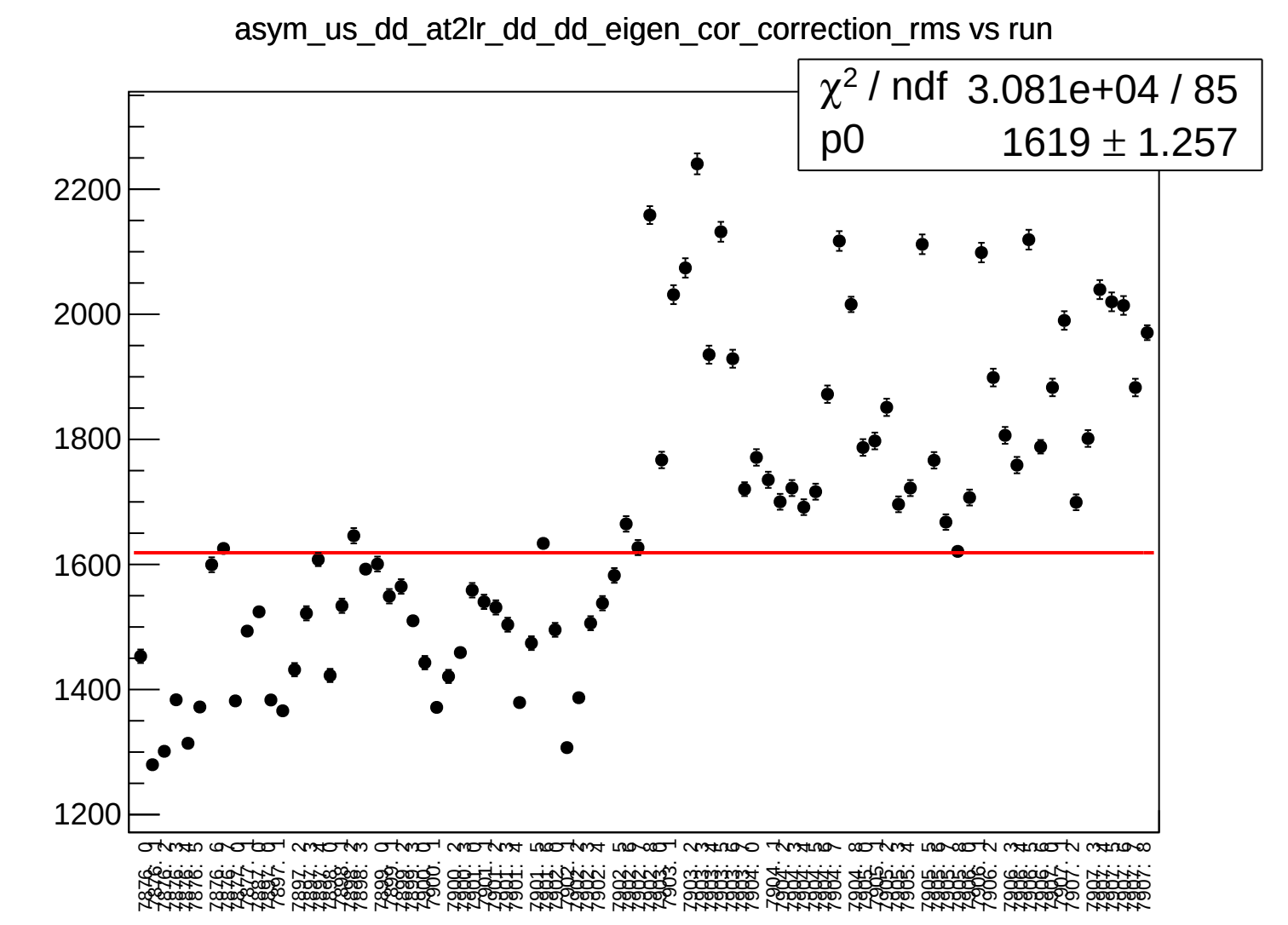

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 69.32 / 85
p0 −12.08 ± 1808
pull
Entries 86
Mean 744.6
Std Dev 0

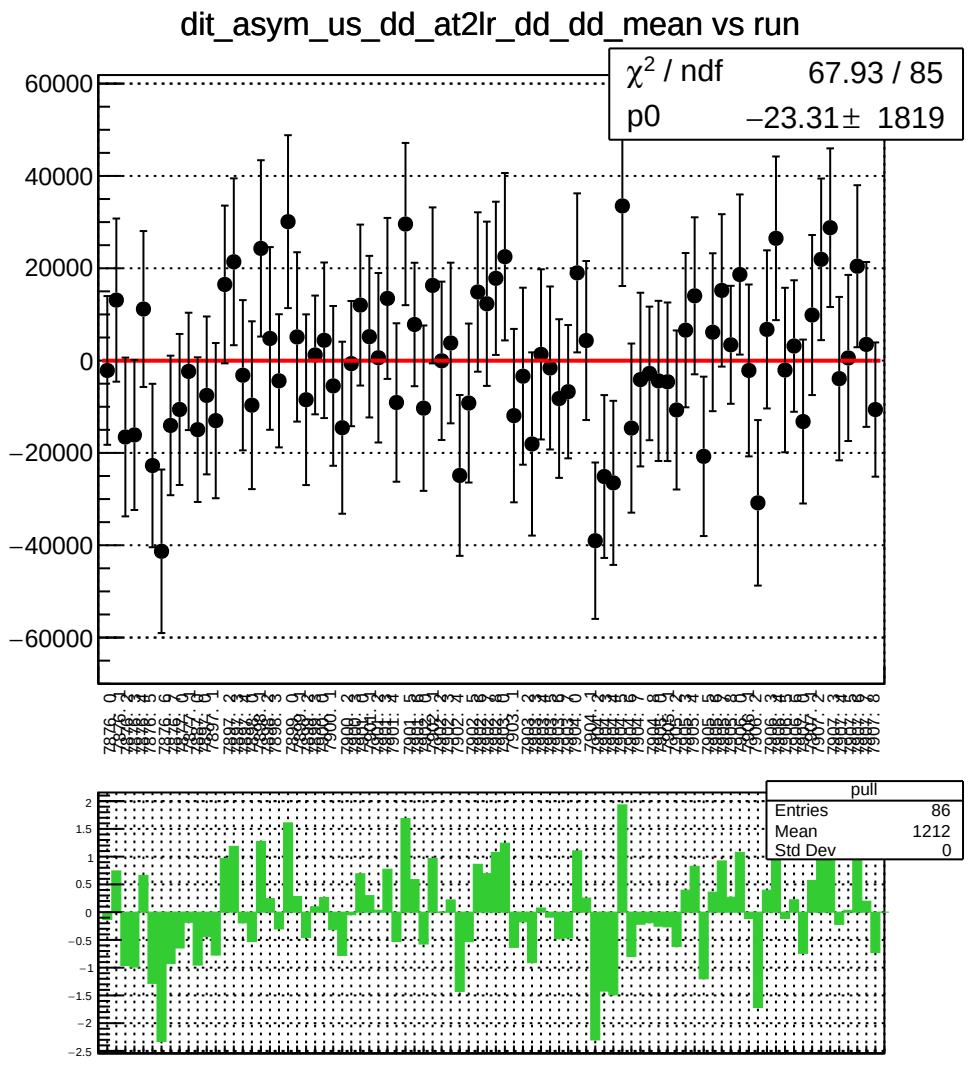

pull1D
Entries 86
Mean 0.004535
Std Dev 0.8978

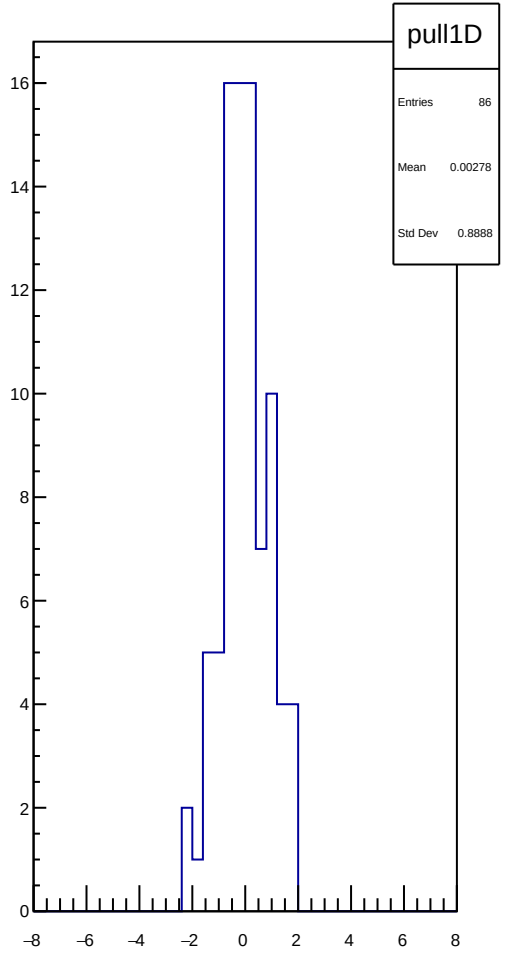

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3244 / 85
p0 1659 ± 1.278
1900
1850
1800
1750
1700
1650
1600
1550
1500

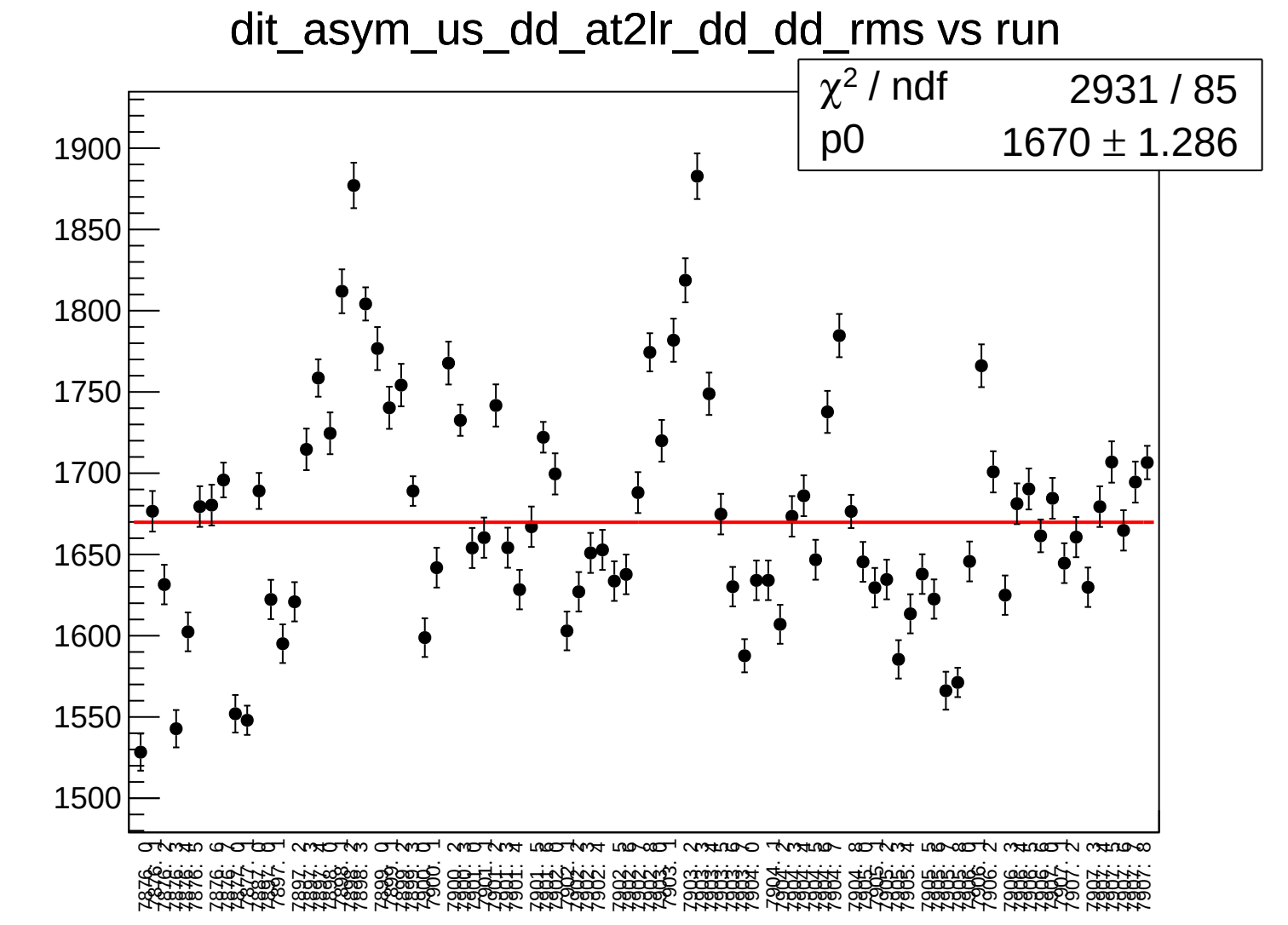

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.67 / 85
p0 2583 ± 1778
pull
Entries 86
Mean 4.432
Std Dev 0

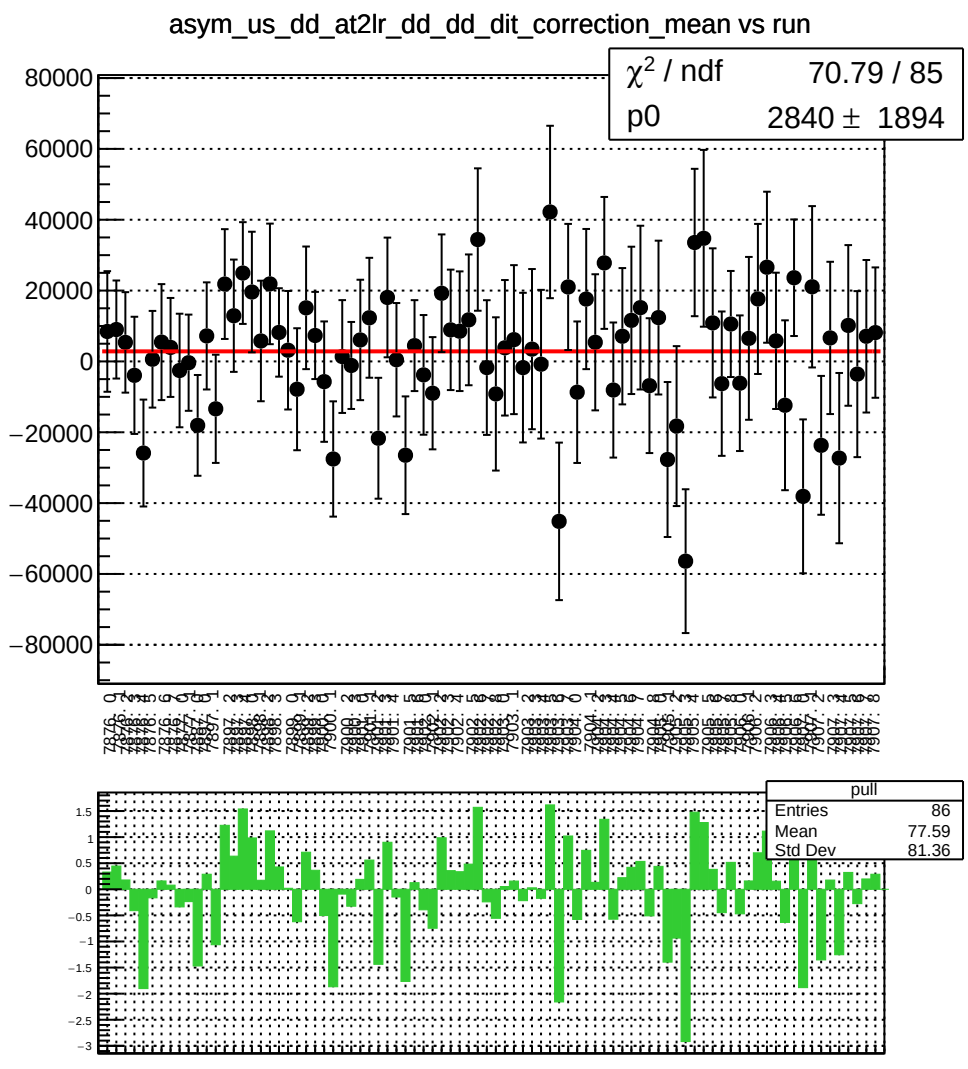

pull1D
Entries 86
Mean 0.005736
Std Dev 0.9129

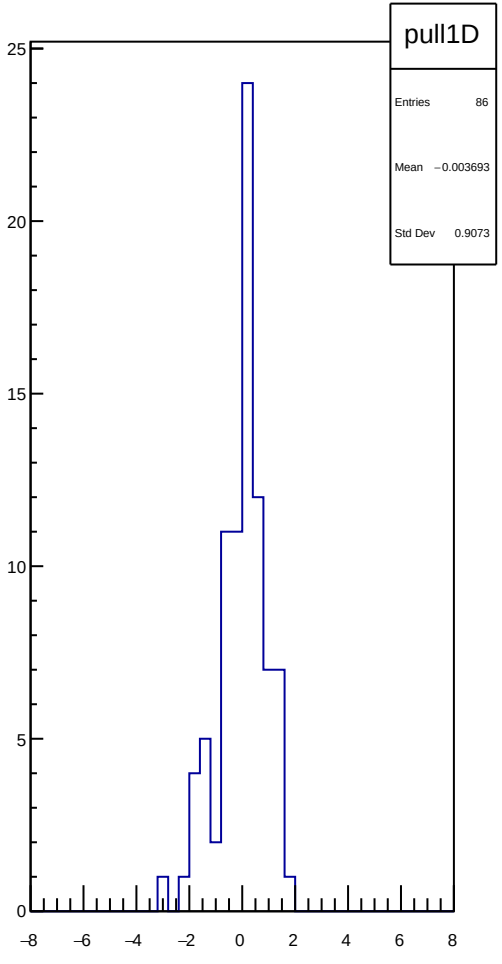

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.081e+04 / 85
p0 1619 ± 1.257
2200
2000
1800
1600
1400
1200

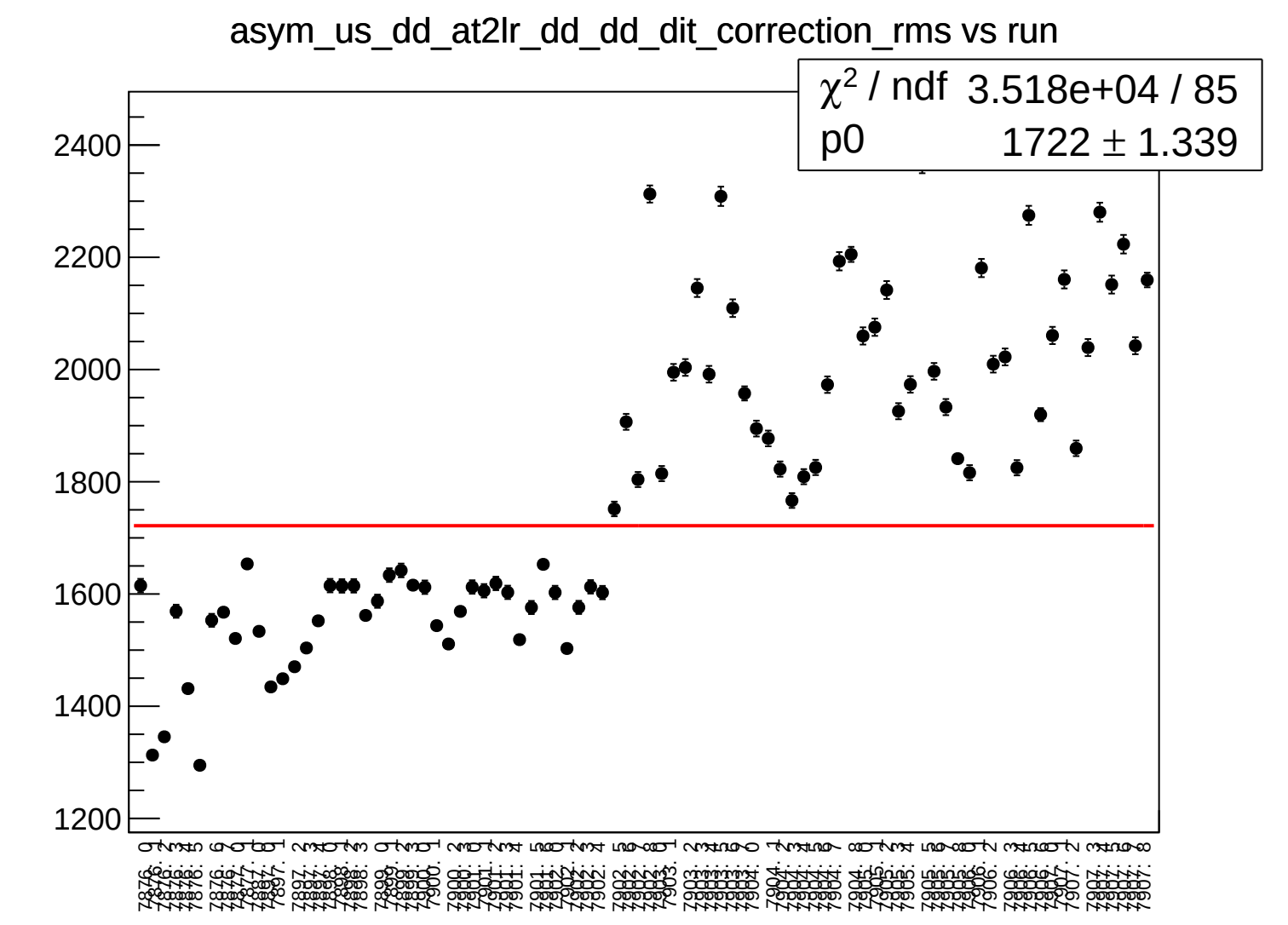

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 67.93 / 85
p0 −23.31± 1819
pull
Entries 86
Mean 1212
Std Dev 0

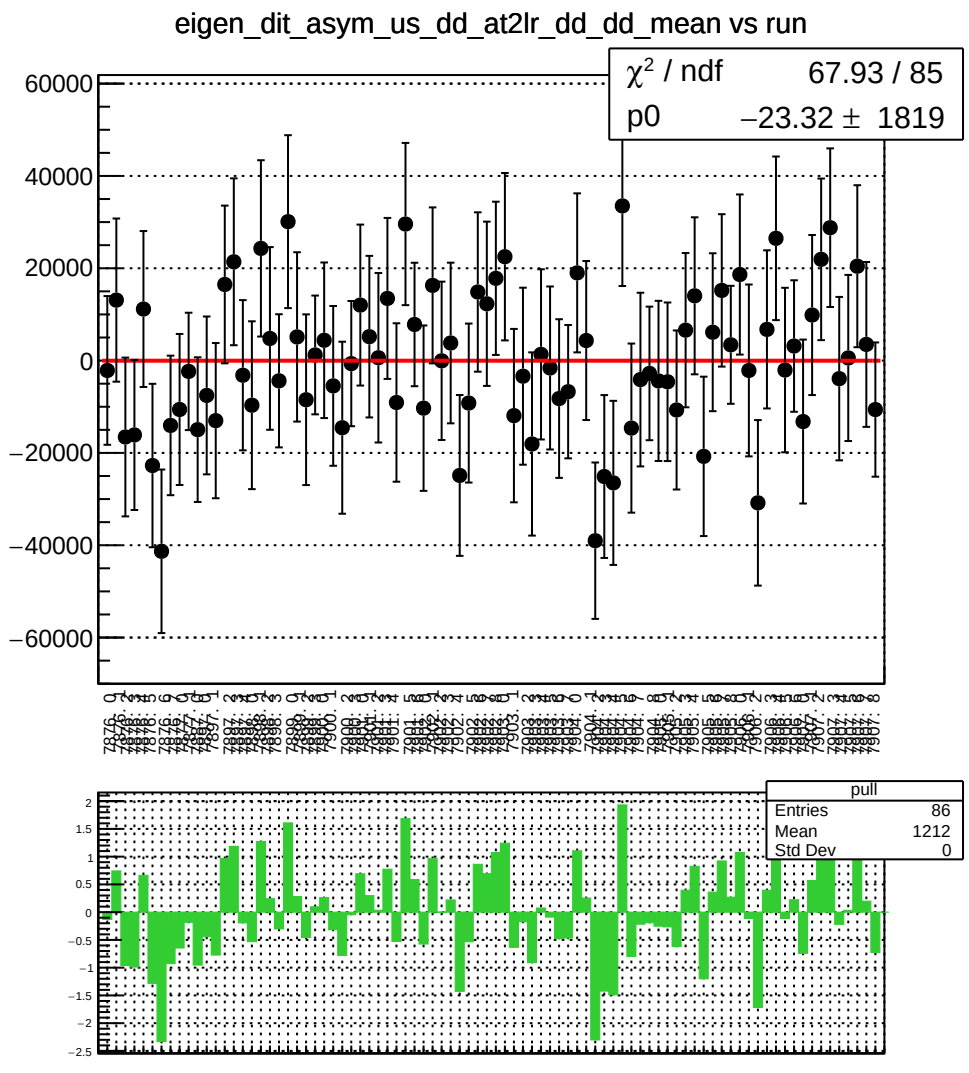

pull1D
Entries 86
Mean 0.00278
Std Dev 0.8888

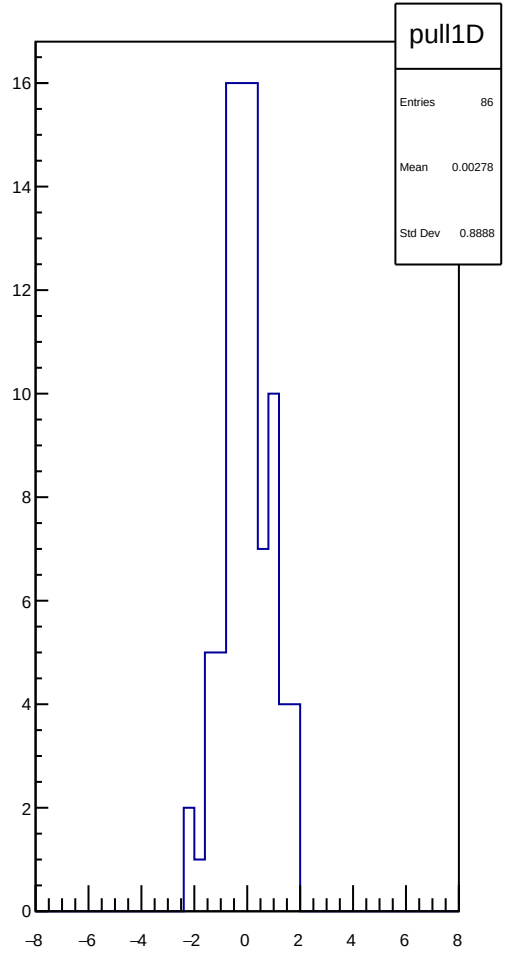

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2931 / 85
p0 1670 ± 1.286
1900
1850
1800
1750
1700
1650
1600
1550
1500

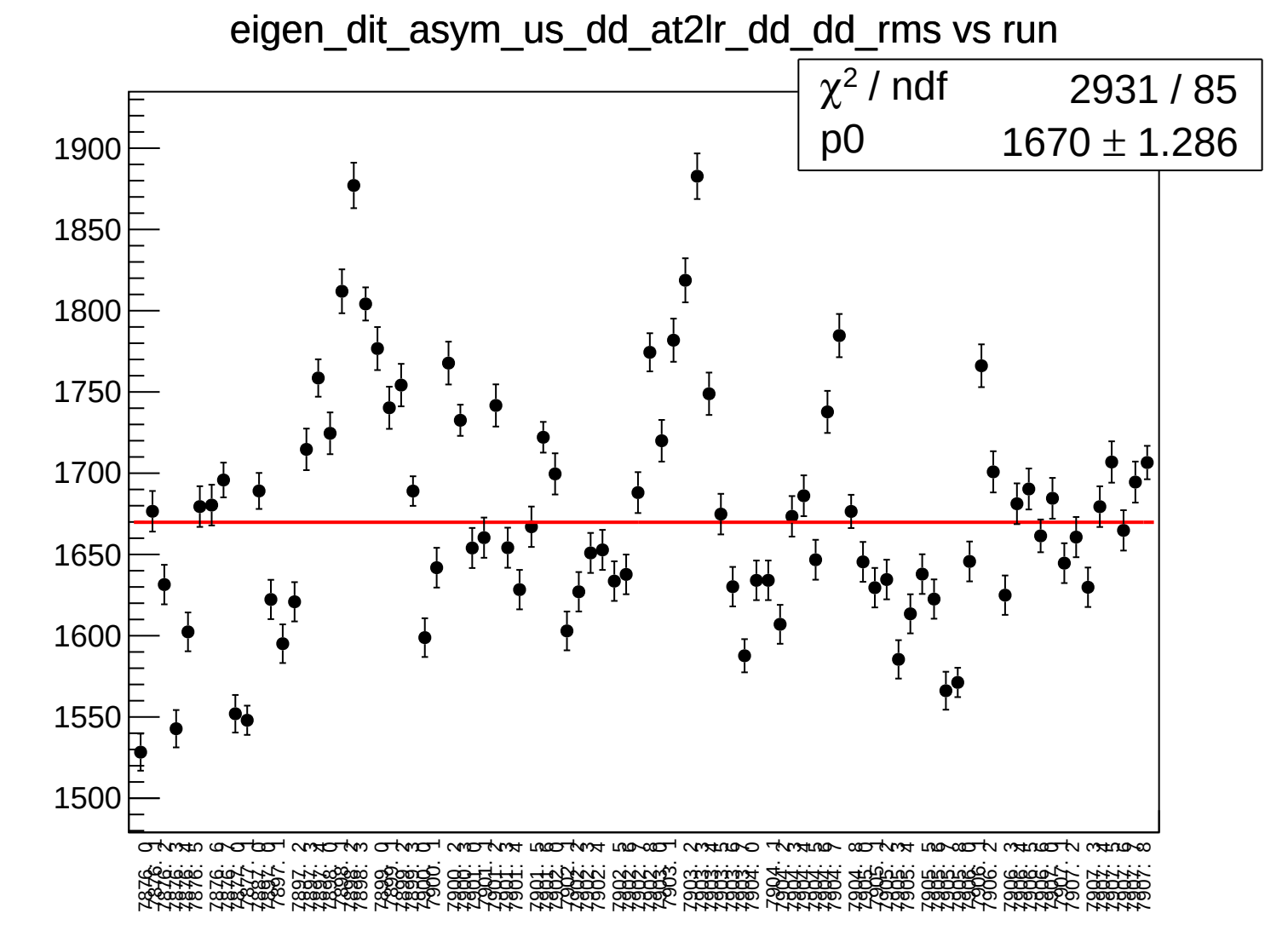

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 70.79 / 85
p0 2840 ± 1894
pull
Entries 86
Mean 77.59
Std Dev 81.36

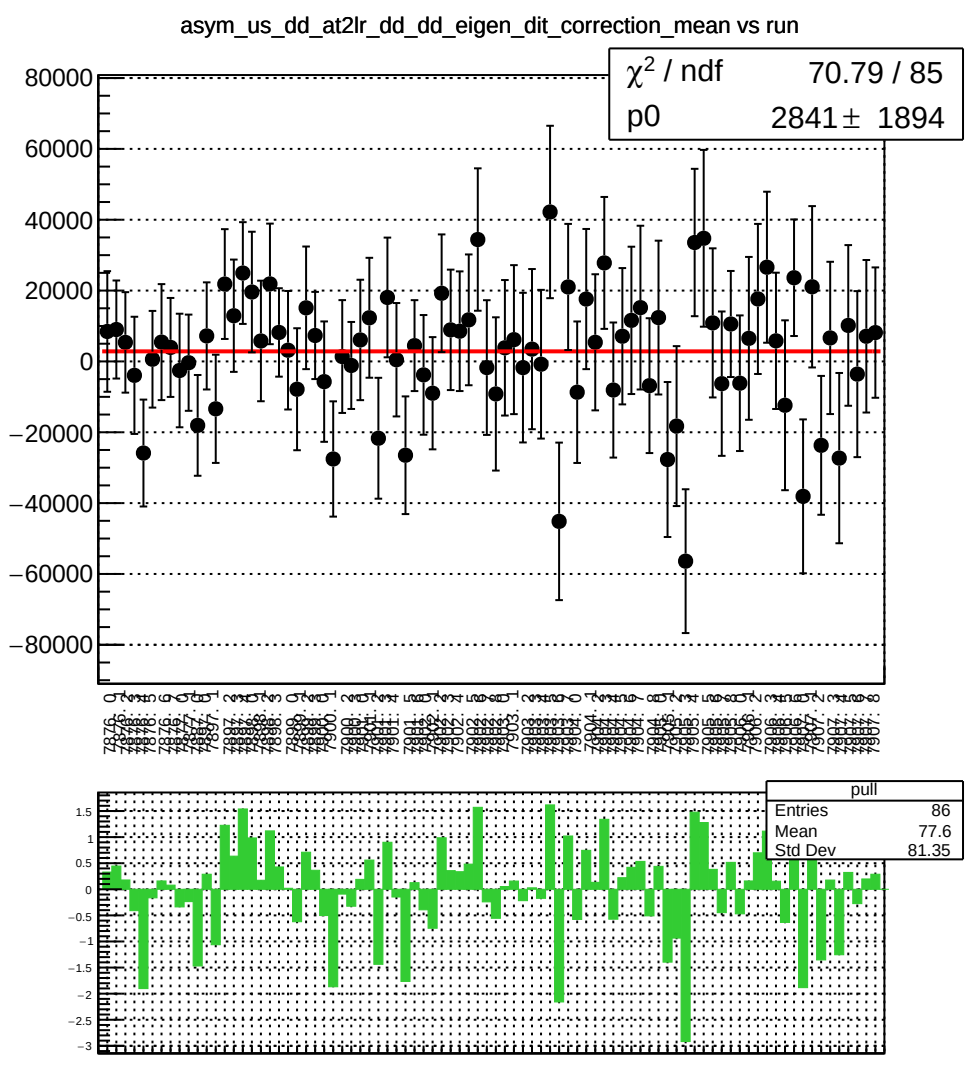

pull1D
Entries 86
Mean −0.003693
Std Dev 0.9073

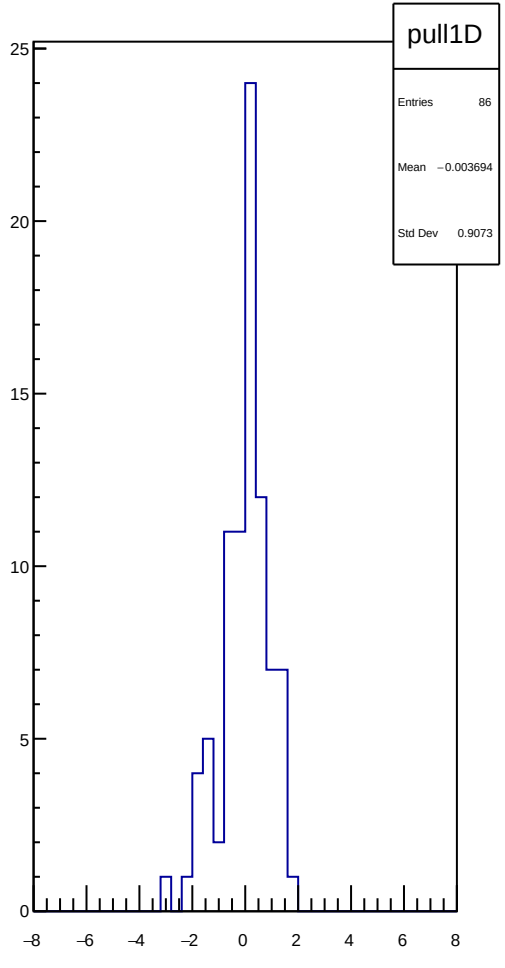

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3.518e+04 / 85
p0 1722 ± 1.339
2400
2200
2000
1800
1600
1400
1200

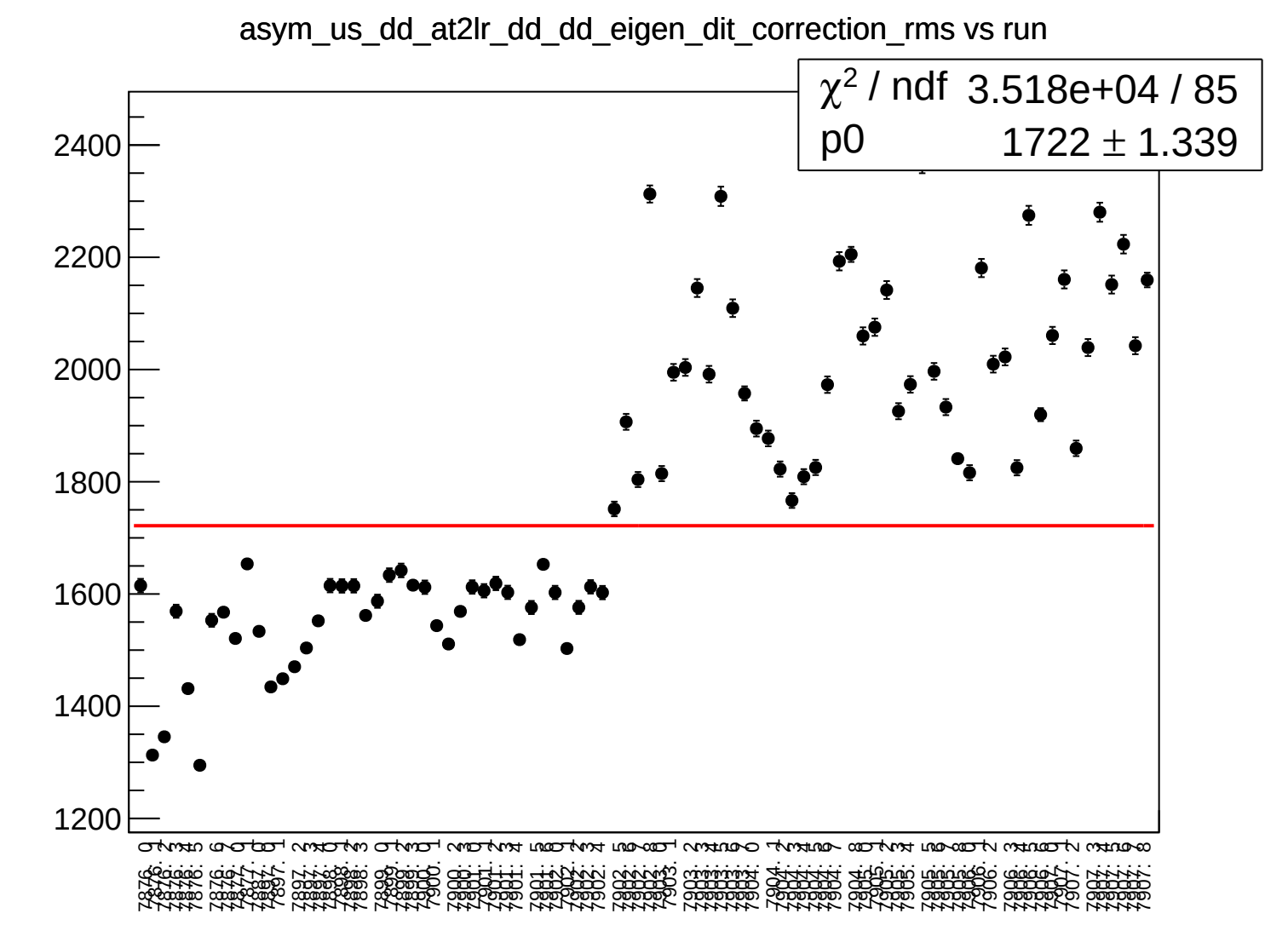

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 67.93 / 85
p0 −23.32 ± 1819
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1212
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

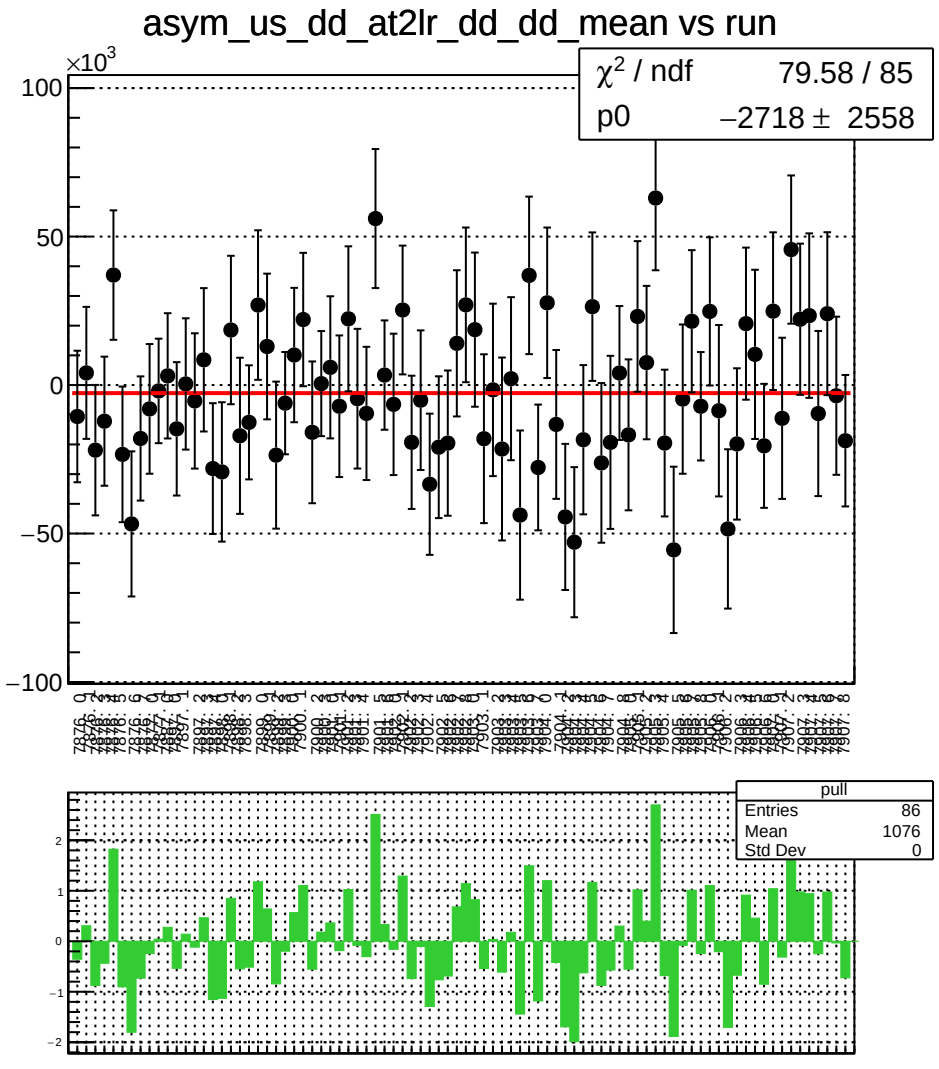

pull1D
Entries 86
Mean 0.00278
Std Dev 0.8888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

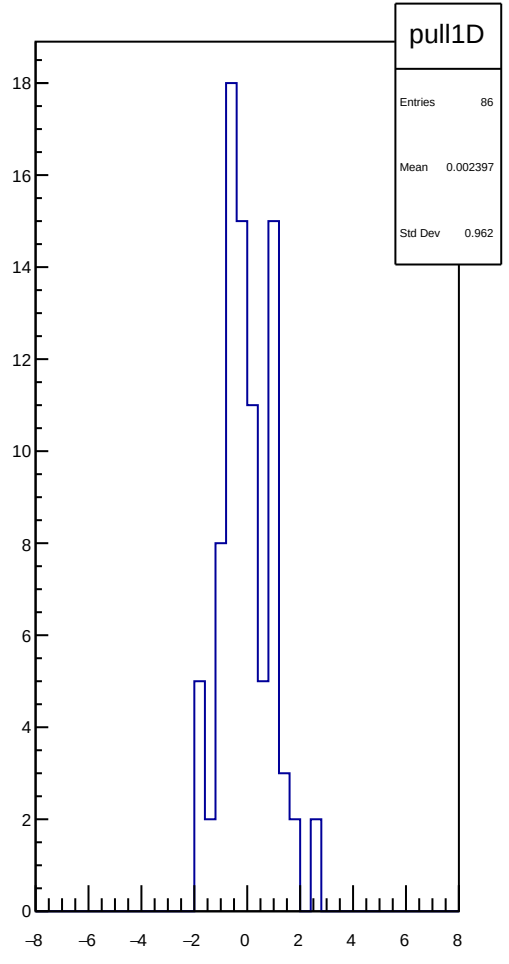

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2931 / 85
p0 1670 ± 1.286
1900
1850
1800
1750
1700
1650
1600
1550
1500

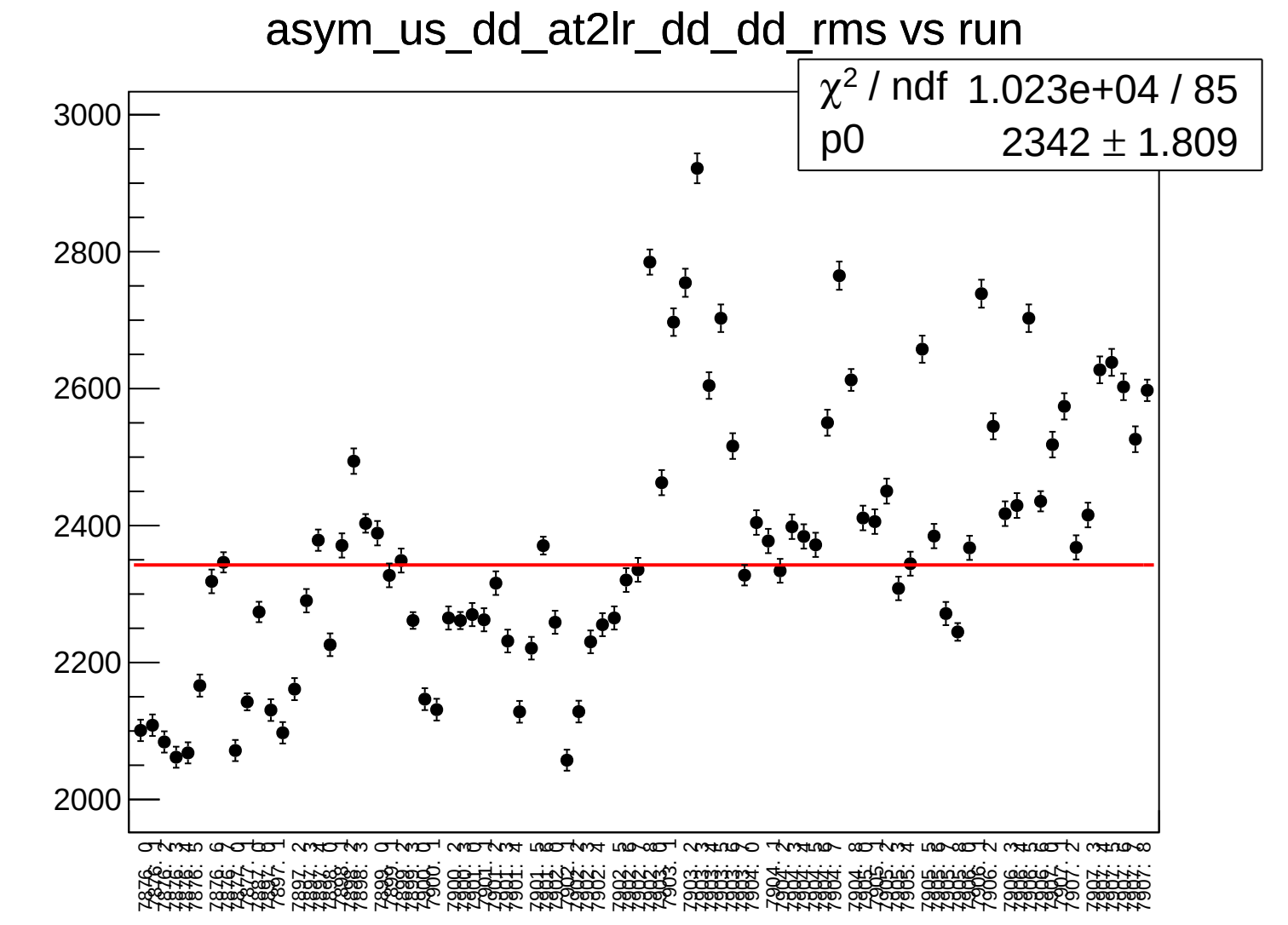

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.79 / 85
p0 2841 ± 1894
pull
Entries 86
Mean 77.6
Std Dev 81.35

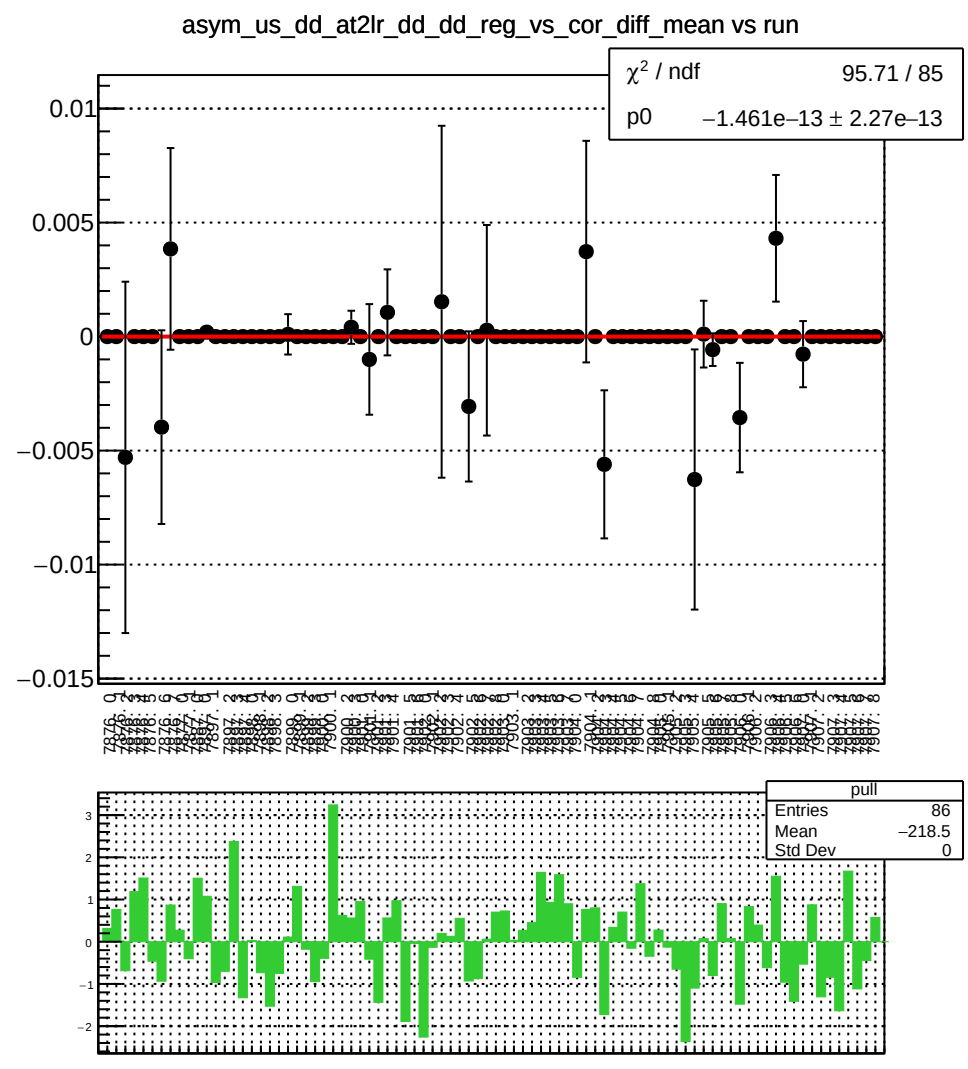

pull1D
Entries 86
Mean −0.003694
Std Dev 0.9073

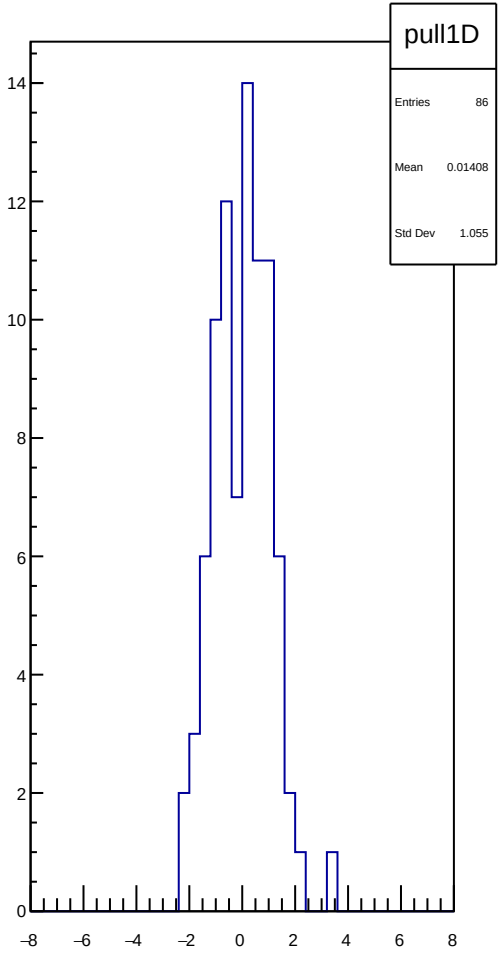

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.518e+04 / 85
p0 1722 ± 1.339
2400
2200
2000
1800
1600
1400
1200

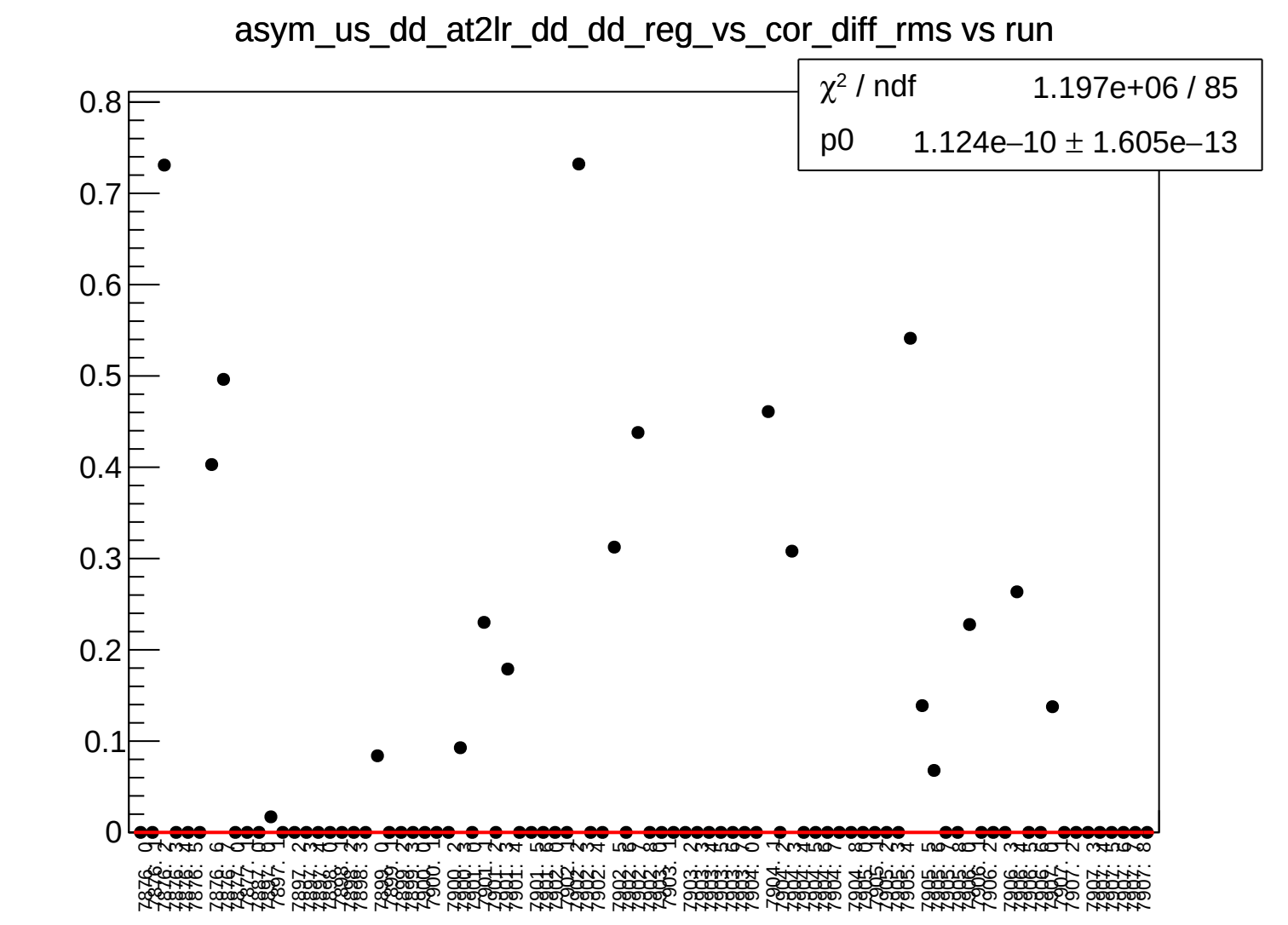

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 79.58 / 85
p0 −2718 ± 2558
100
50
0
−50
−100
pull
Entries 86
Mean 1076
Std Dev 0
2
1
0
−1
−2

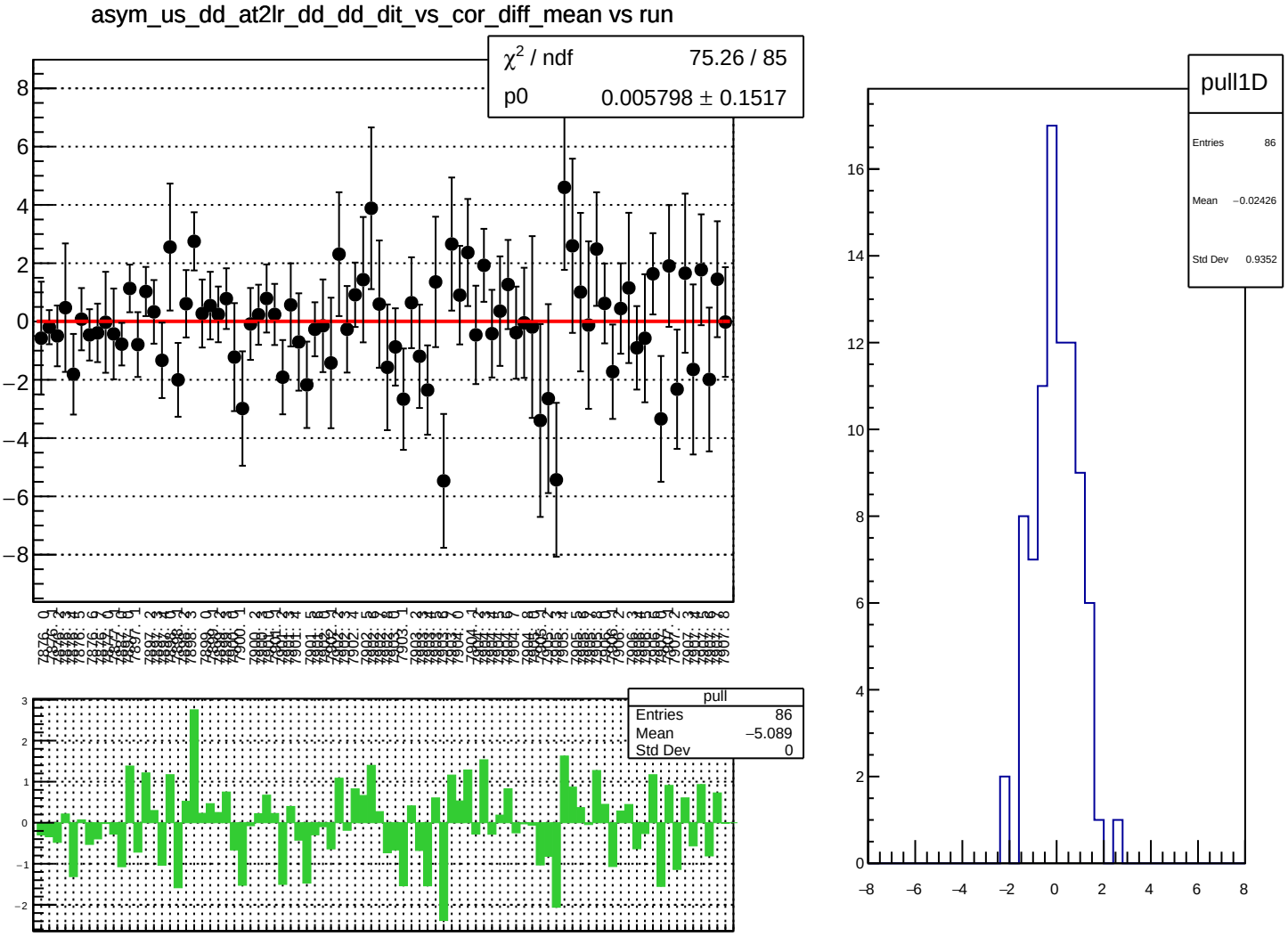

pull1D
Entries 86
Mean 0.002397
Std Dev 0.962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

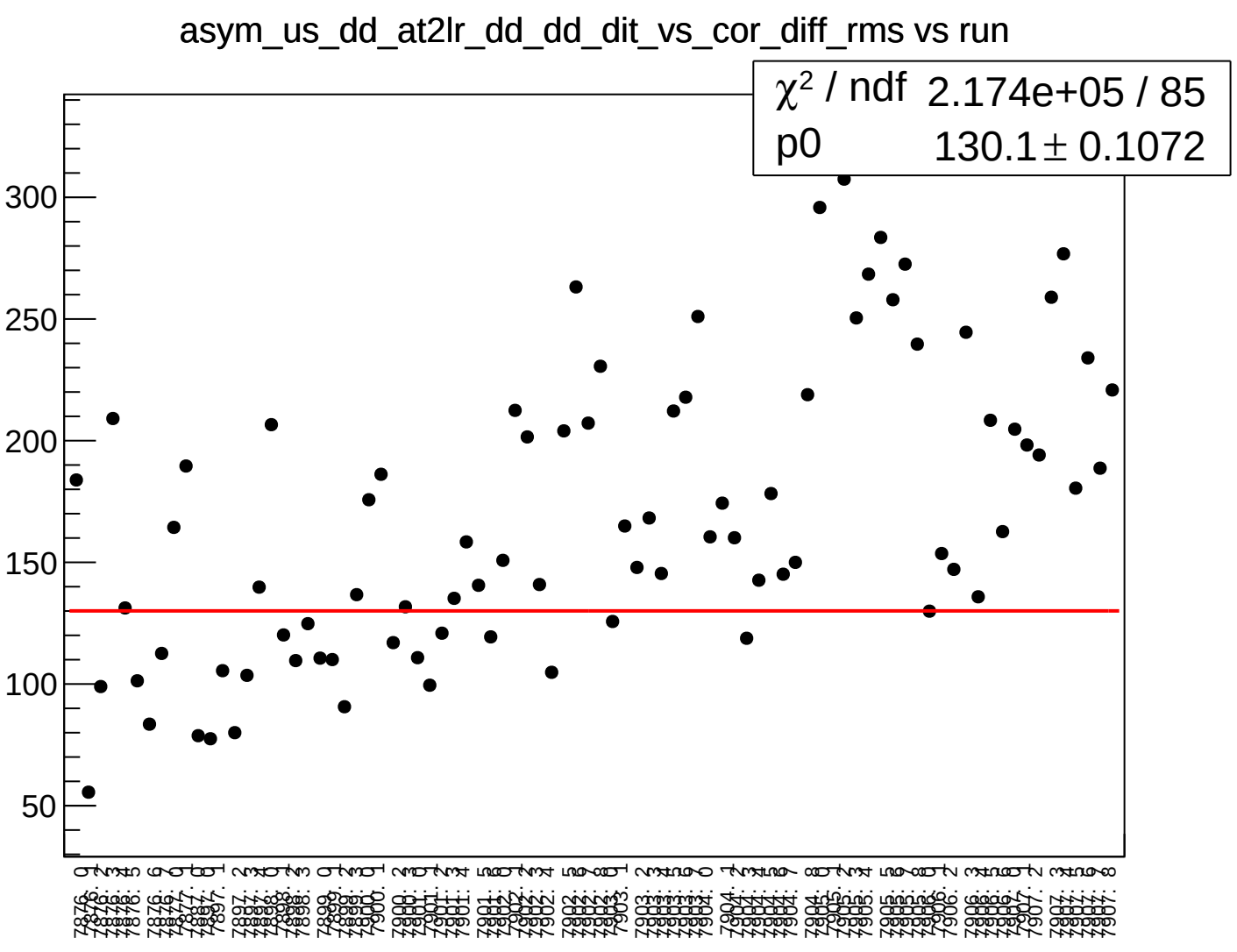

asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 1.023e+04 / 85
p0 2342 ± 1.809
3000
2800
2600
2400
2200
2000

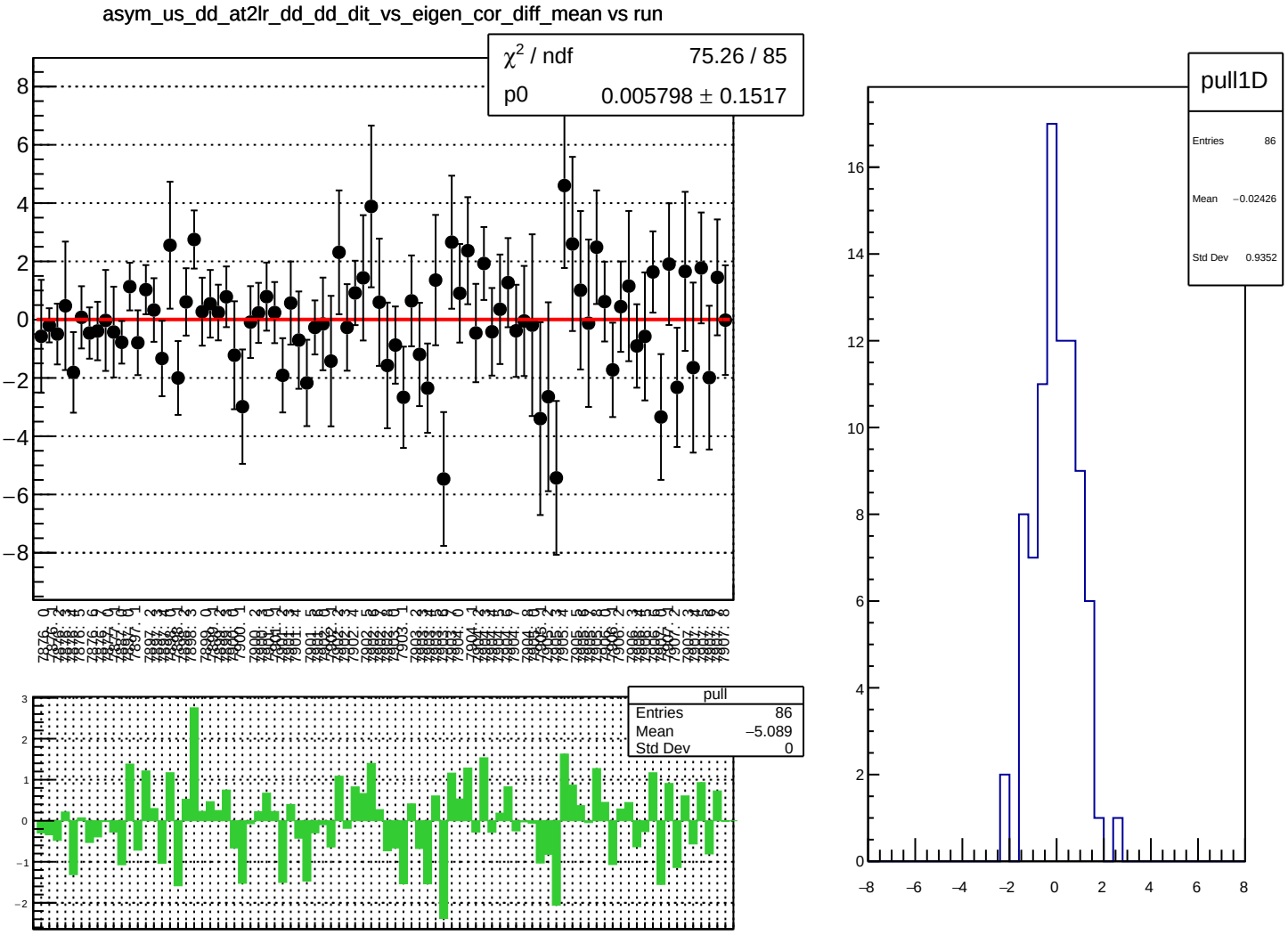

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.71 / 85
p0 −1.461e−13 ± 2.27e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean −218.5
Std Dev 0
3
2
1
0
−1
−2

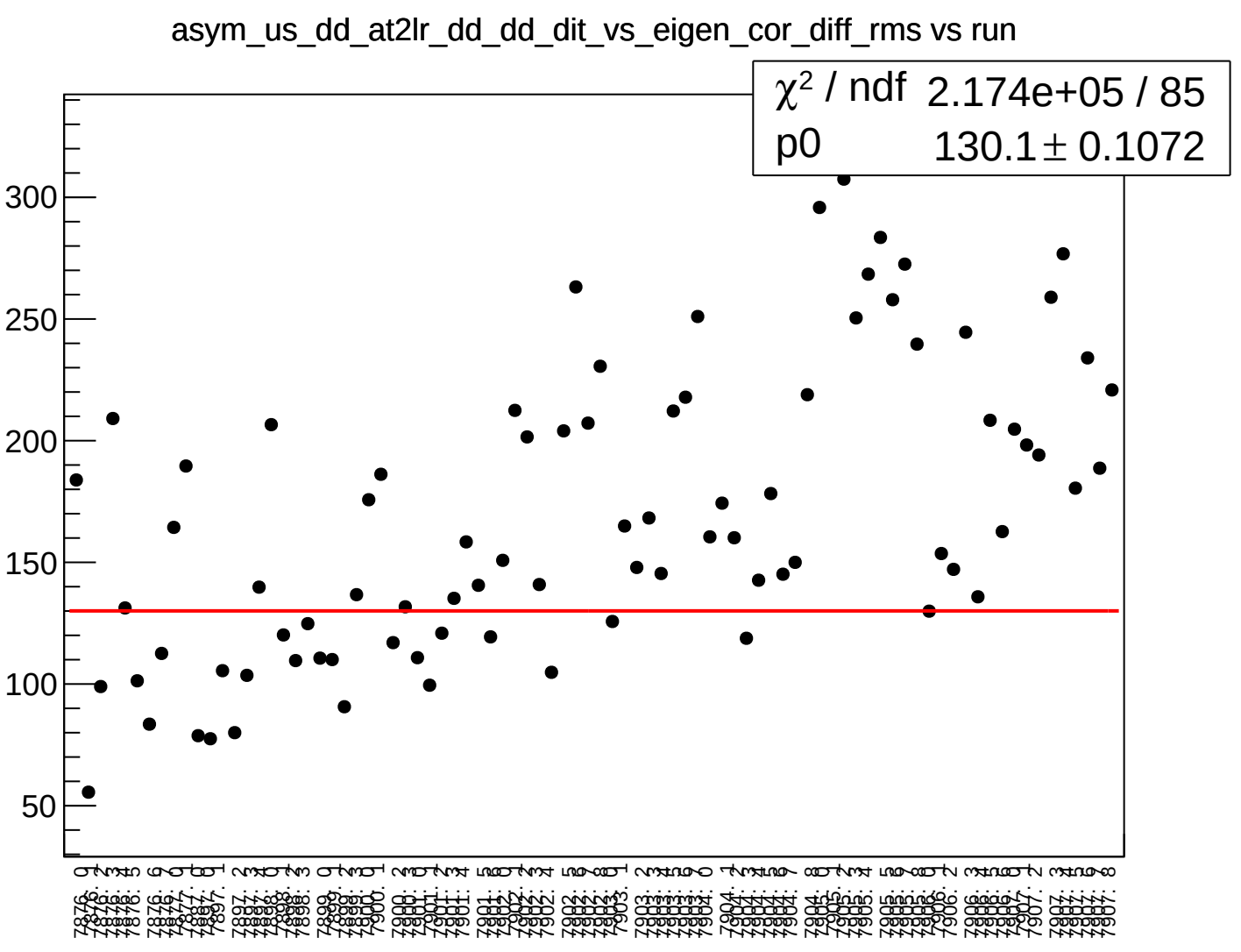

pull1D
Entries 86
Mean 0.01408
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

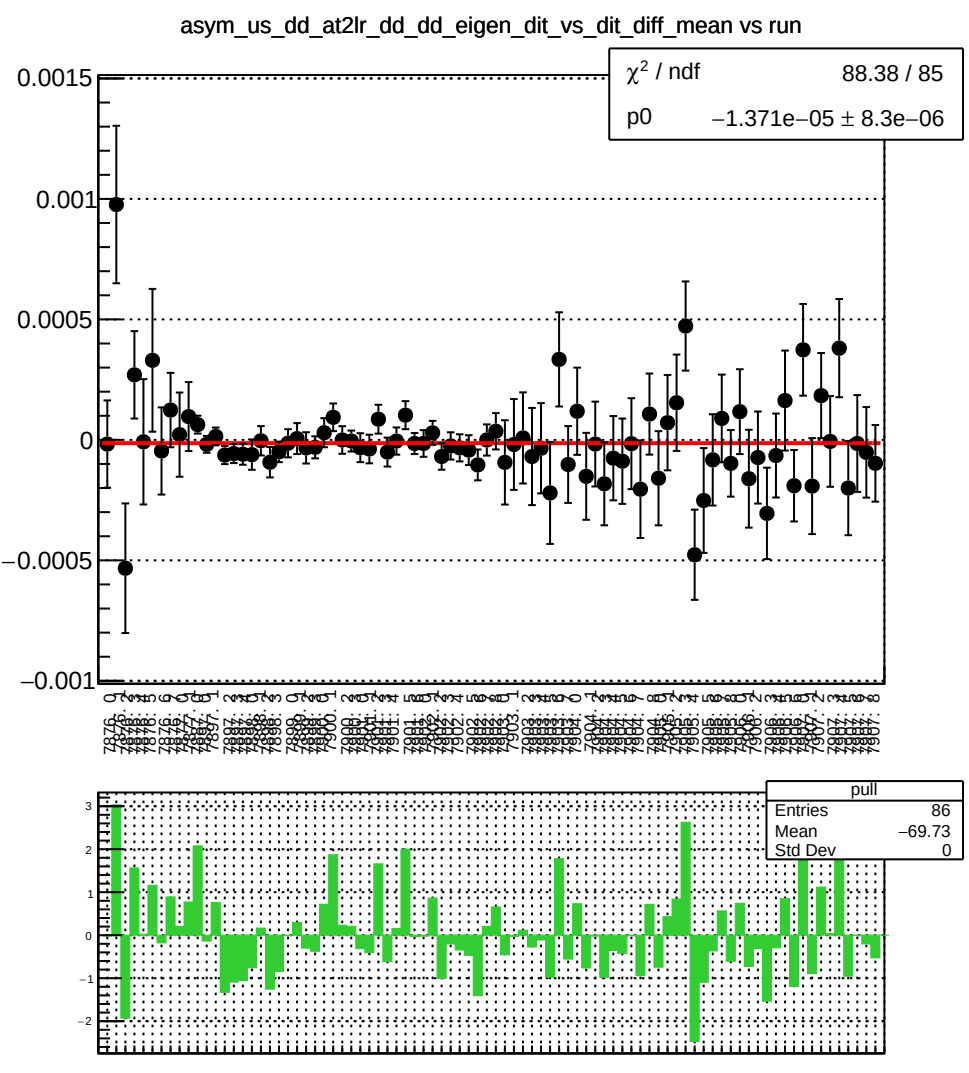

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.197e+06 / 85
p0 1.124e−10 ± 1.605e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

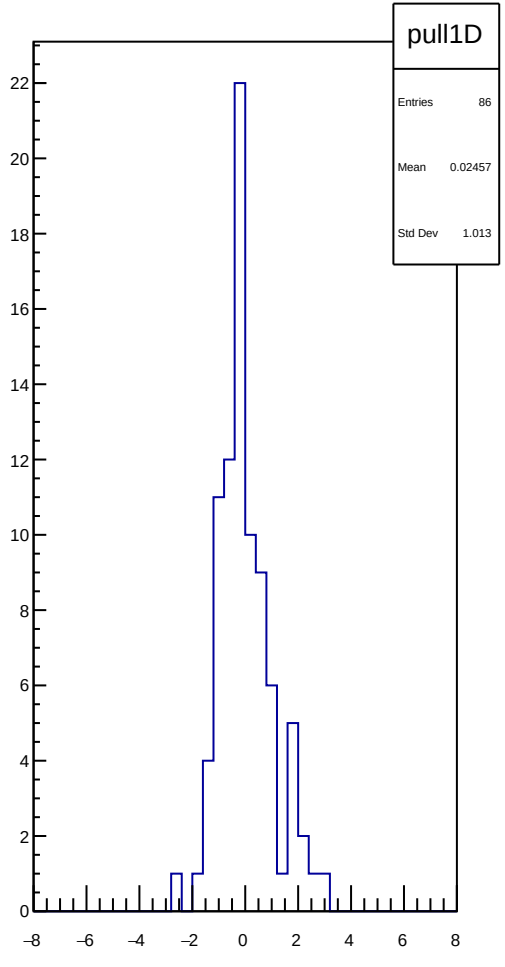

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.26 / 85
p0 0.005798 ± 0.1517
pull
Entries 86
Mean −5.089
Std Dev 0
pull1D
Entries 86
Mean −0.02426
Std Dev 0.9352

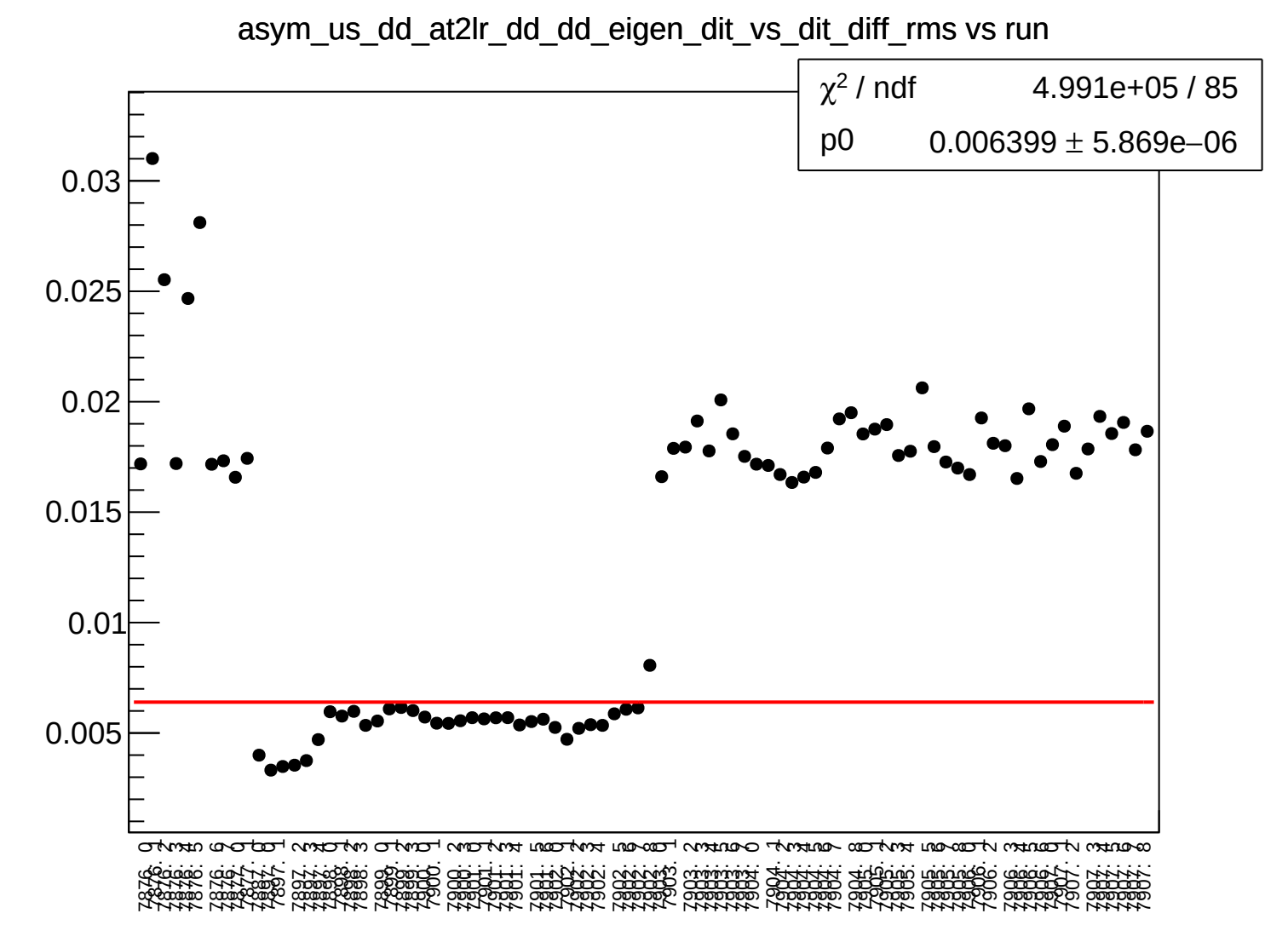

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 85
p0 130.1 ± 0.1072
300
250
200
150
100
50


asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.26 / 85
p0 0.005798 ± 0.1517
pull
Entries 86
Mean −5.089
Std Dev 0
pull1D
Entries 86
Mean −0.02426
Std Dev 0.9352

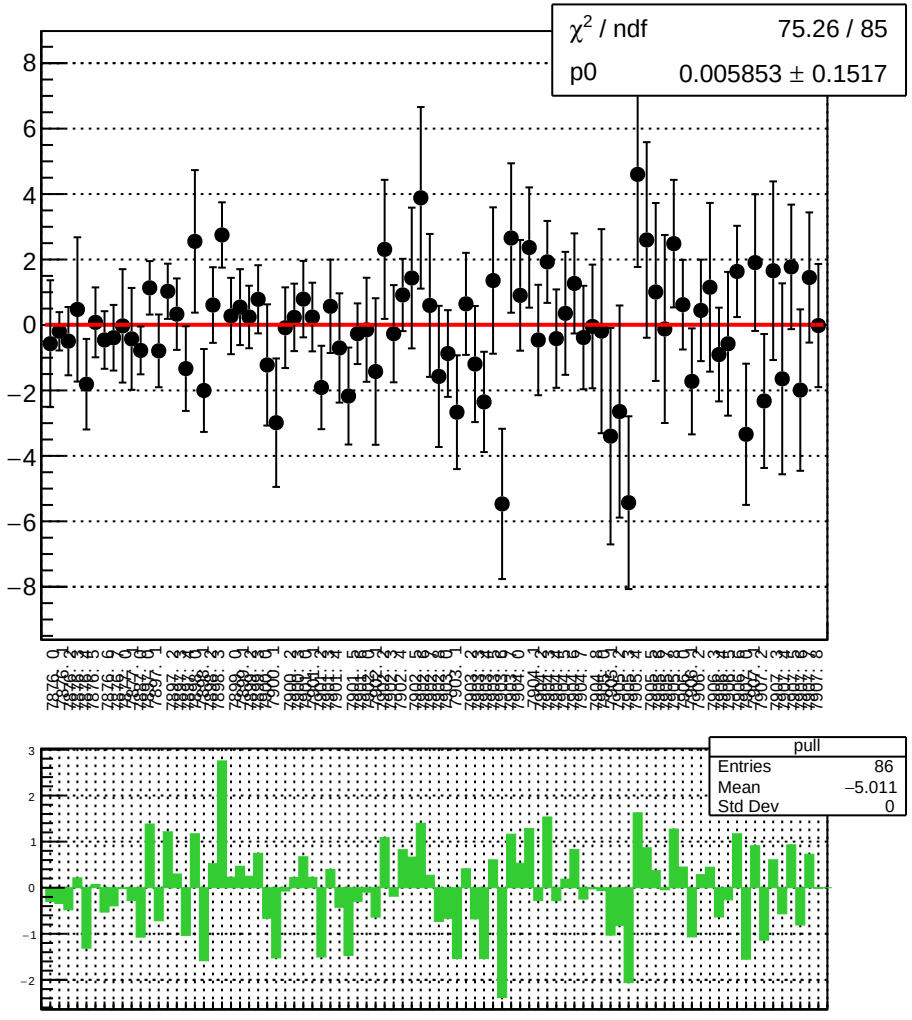

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 85
p0 130.1 ± 0.1072
300
250
200
150
100
50

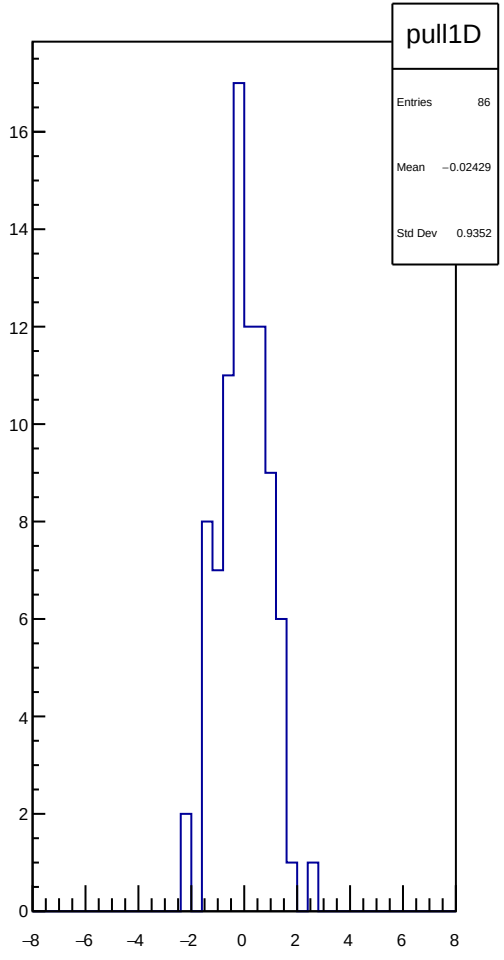

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88.38 / 85
p0 −1.371e−05 ± 8.3e−06
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean −69.73
Std Dev 0
3
2
1
0
−1
−2

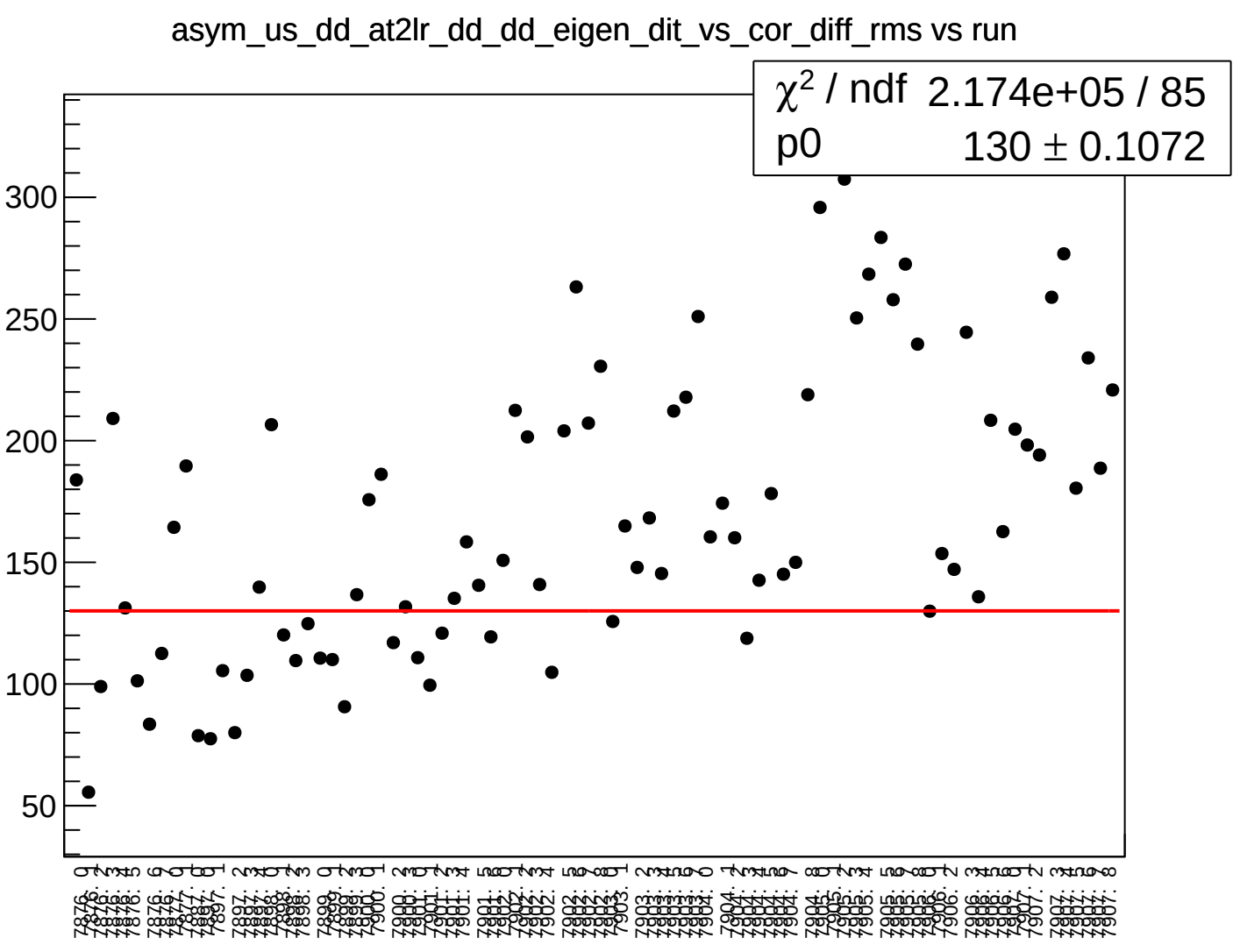

pull1D
Entries 86
Mean 0.02457
Std Dev 1.013
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

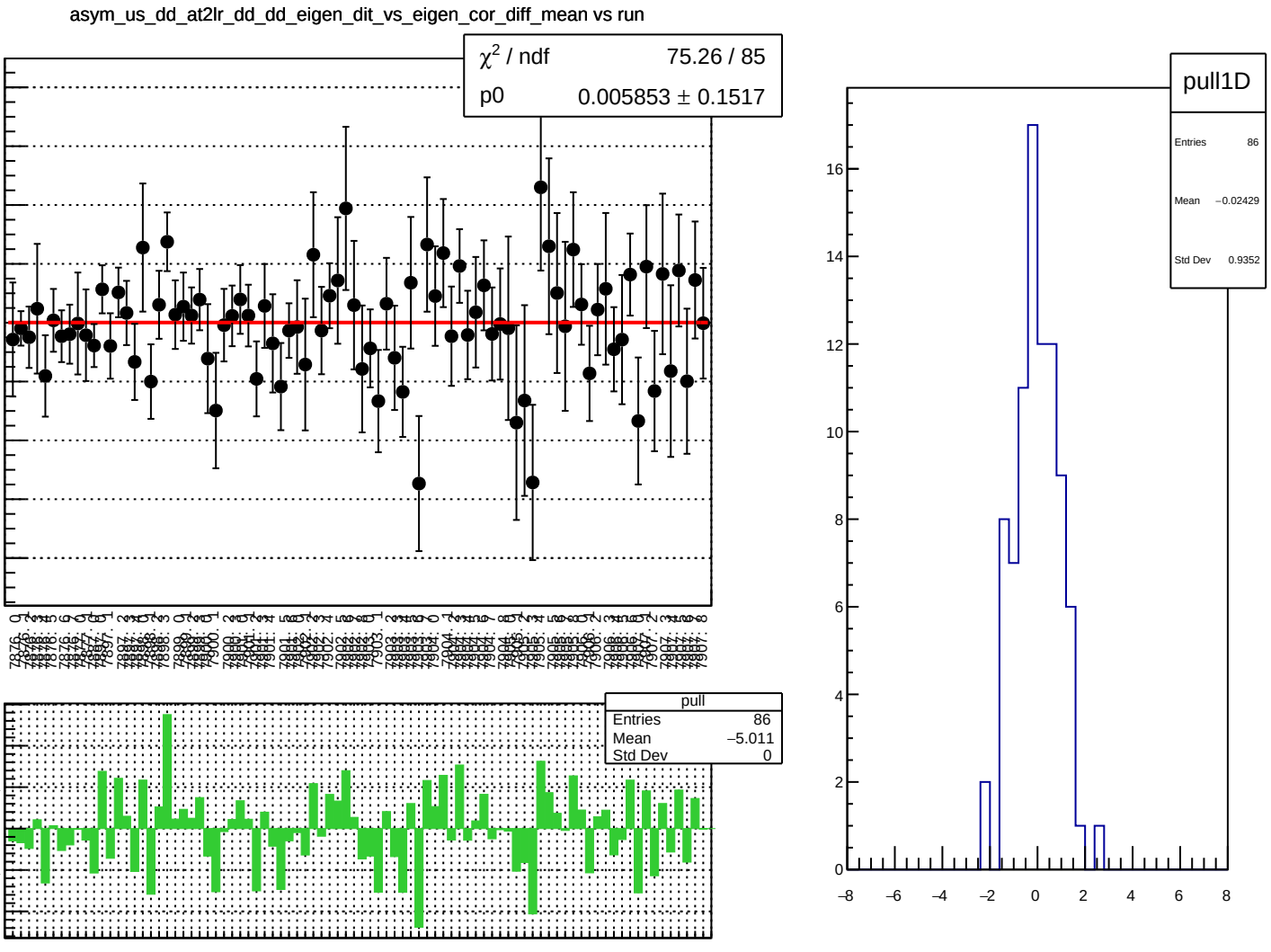

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.991e+05 / 85
p0 0.006399 ± 5.869e−06
0.03
0.025
0.02
0.015
0.01
0.005

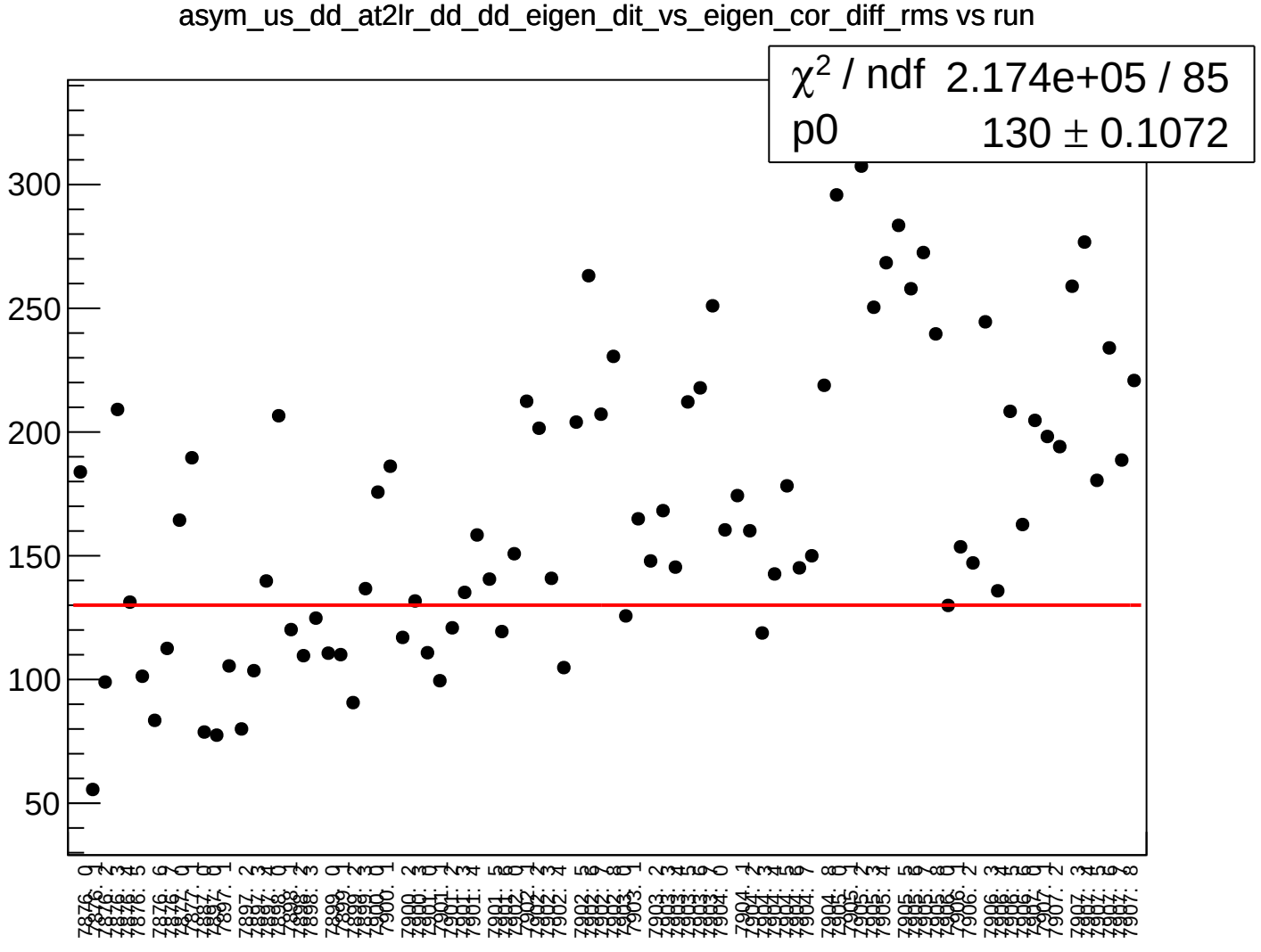
asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run

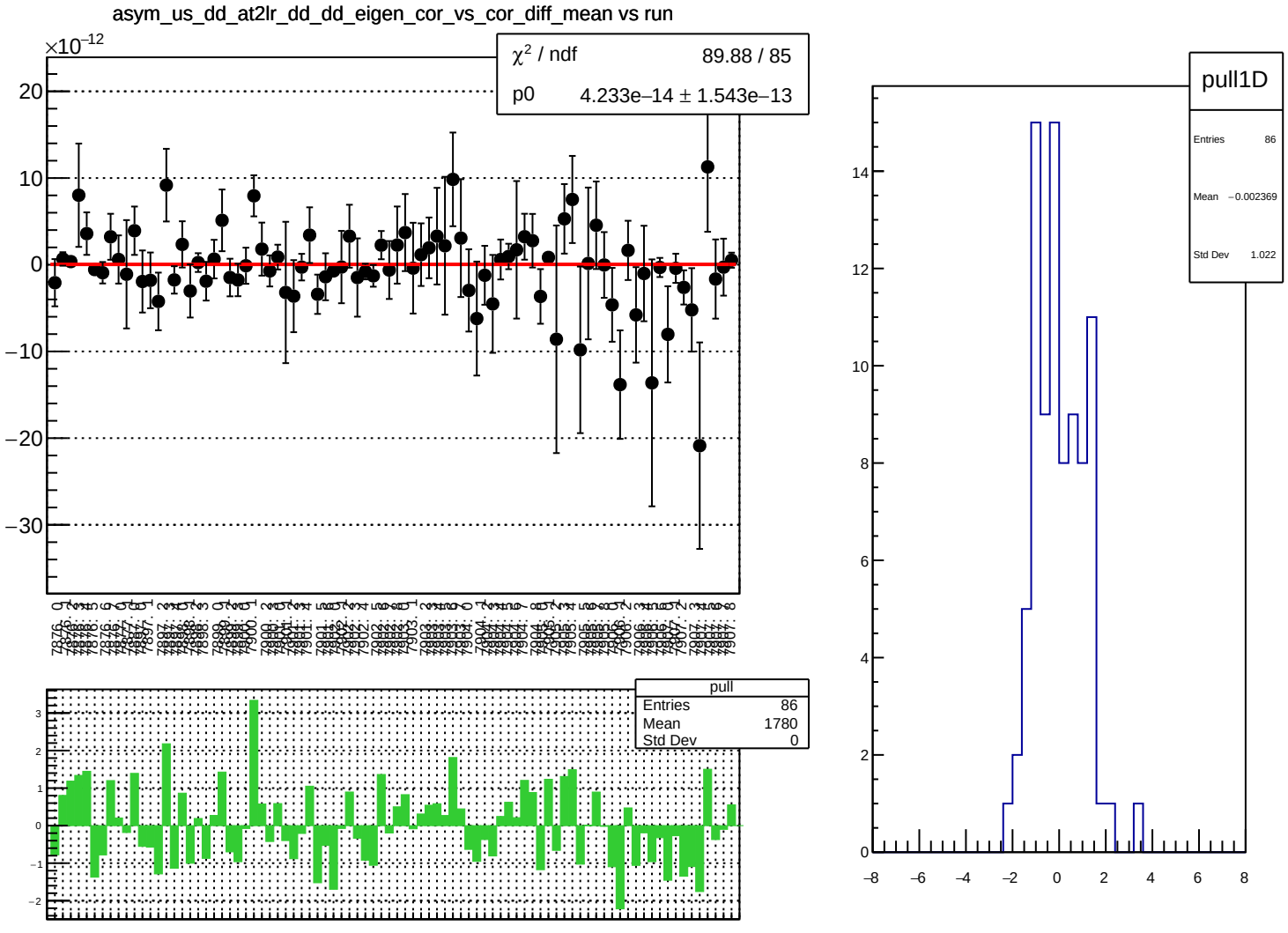


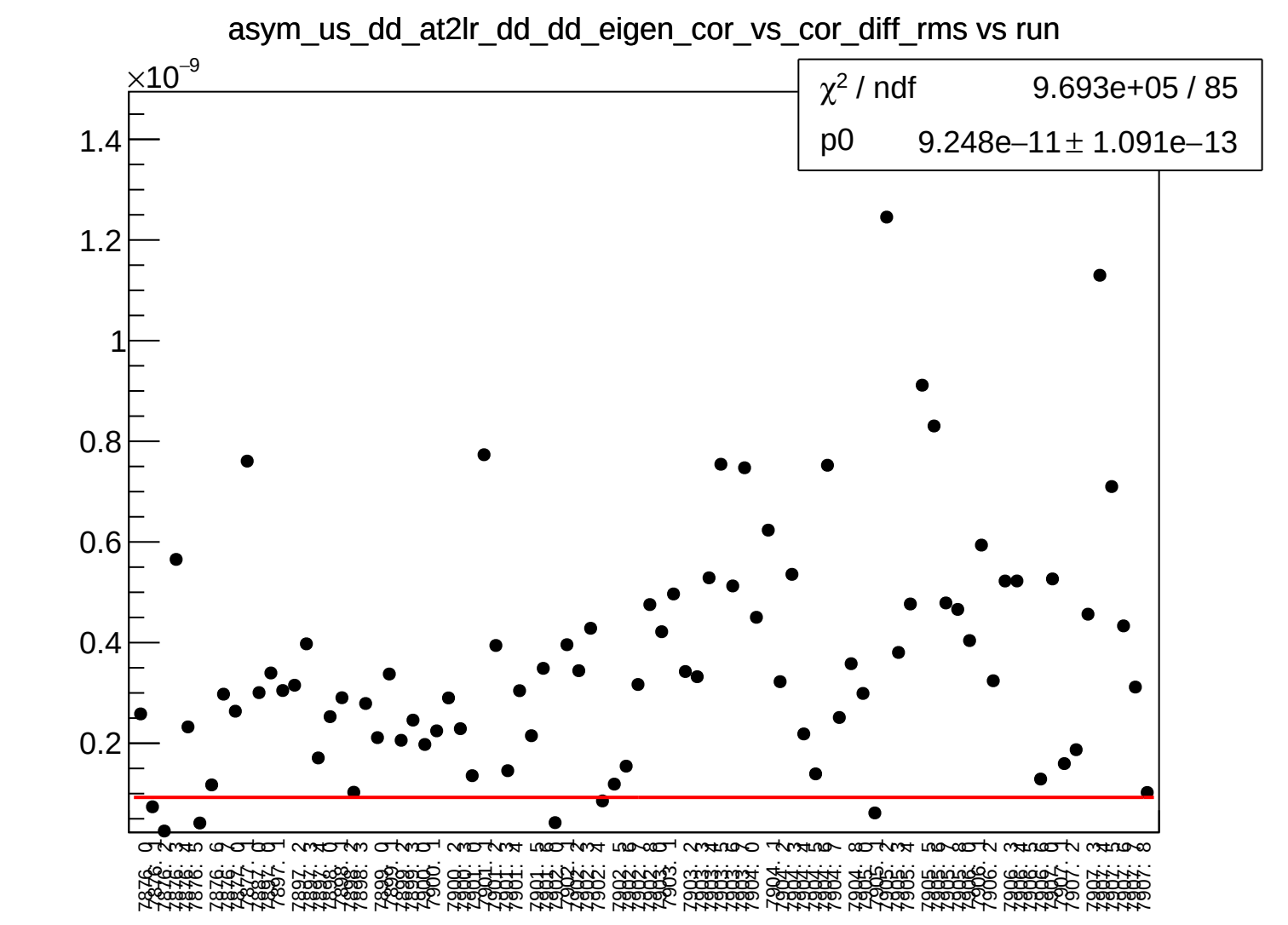


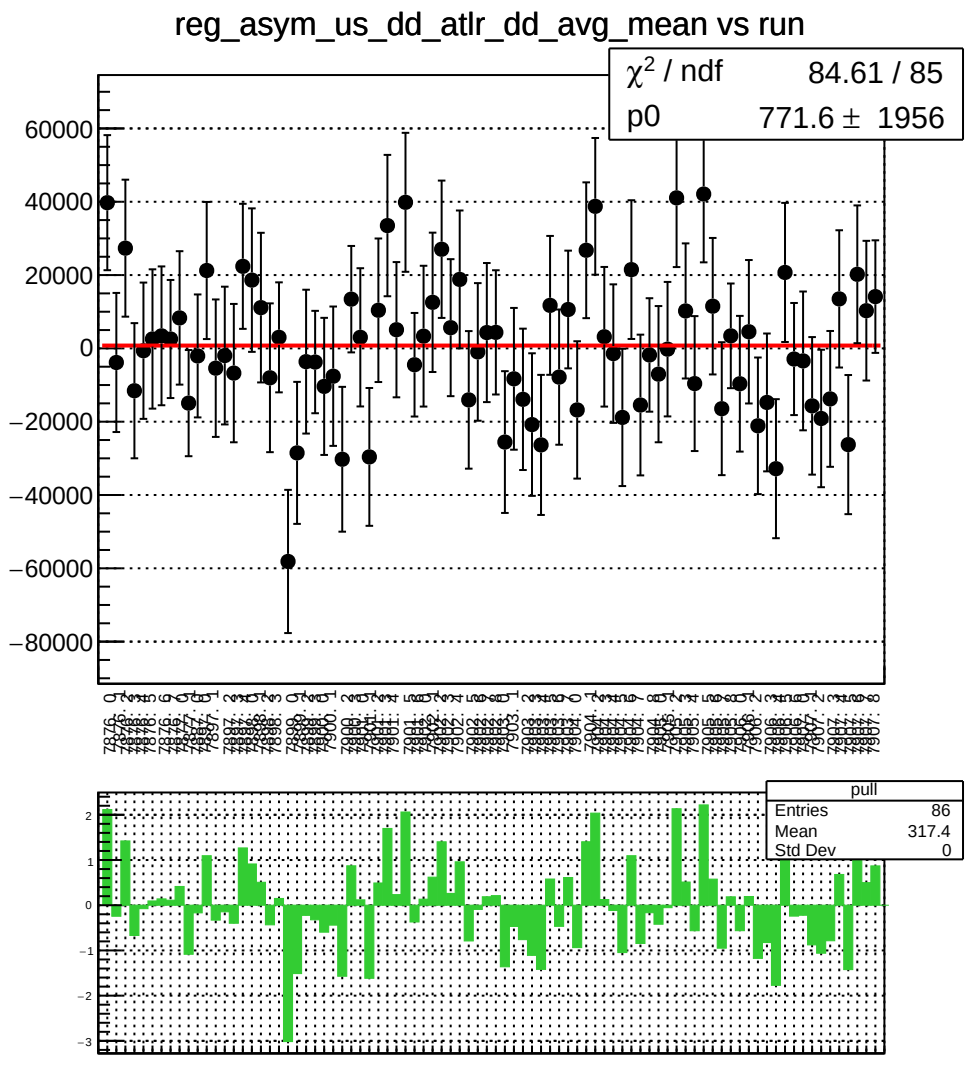

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 85
p0 130 ± 0.1072
300
250
200
150
100
50

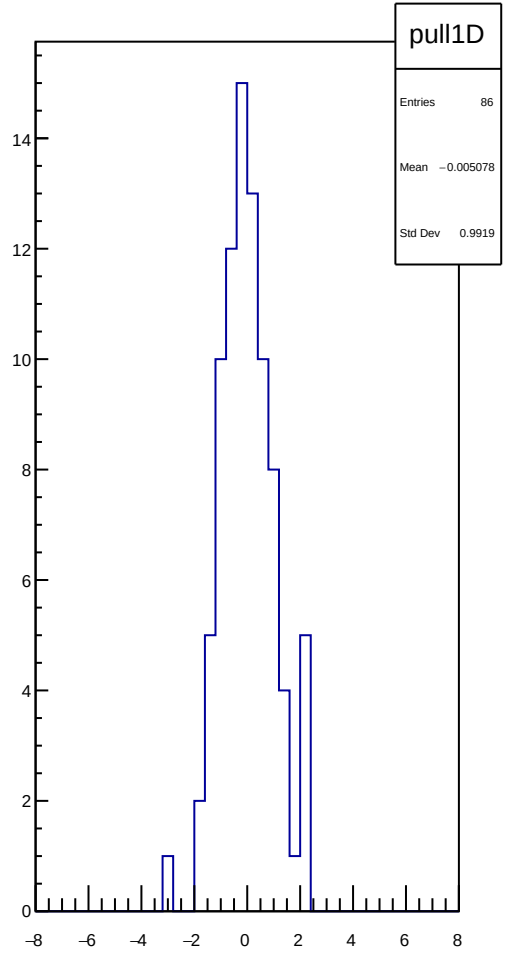

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.26 / 85
p0 0.005853 ± 0.1517
pull
Entries 86
Mean −5.011
Std Dev 0
pull1D
Entries 86
Mean −0.02429
Std Dev 0.9352

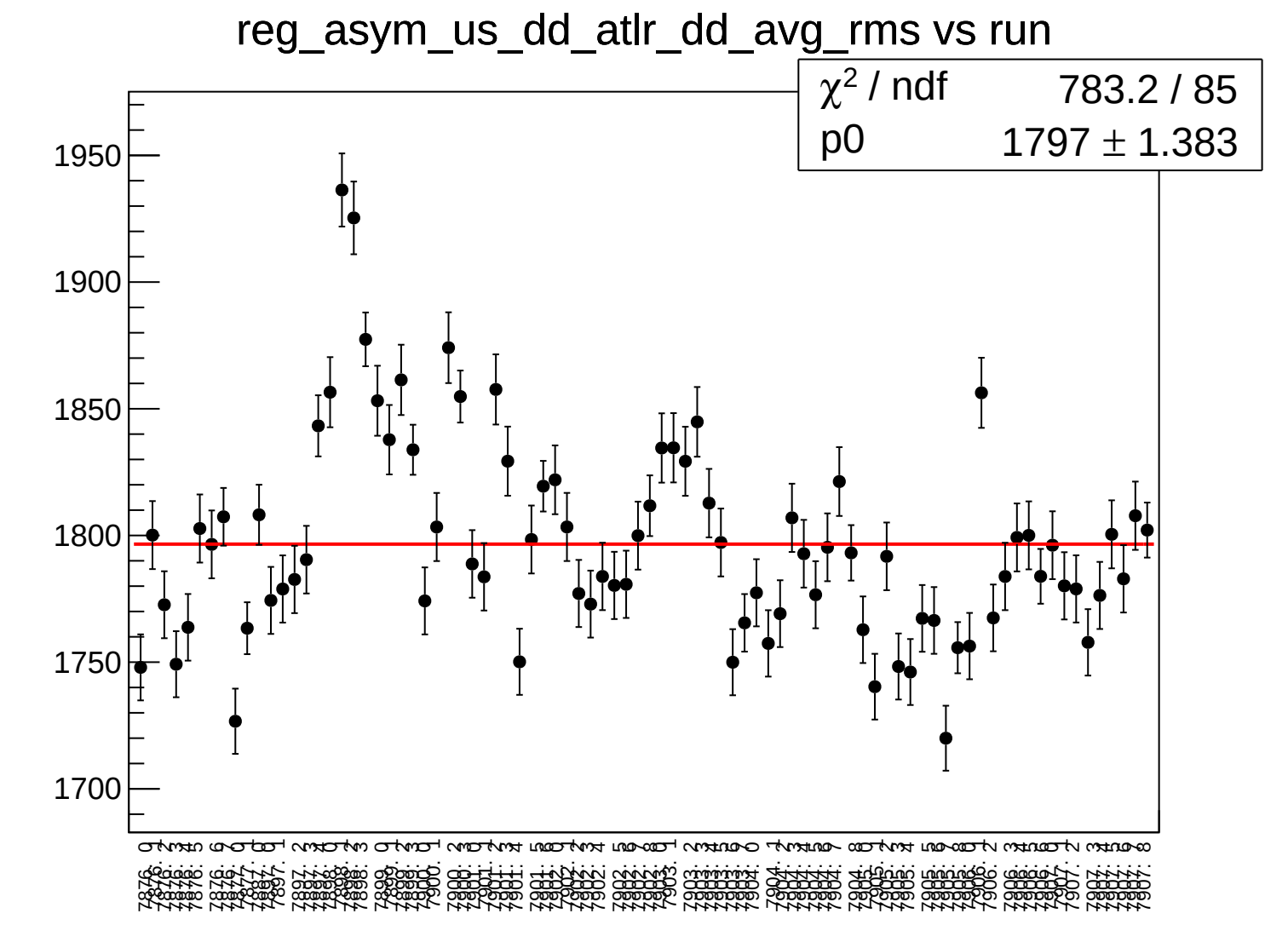

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 85
p0 130 ± 0.1072
300
250
200
150
100
50

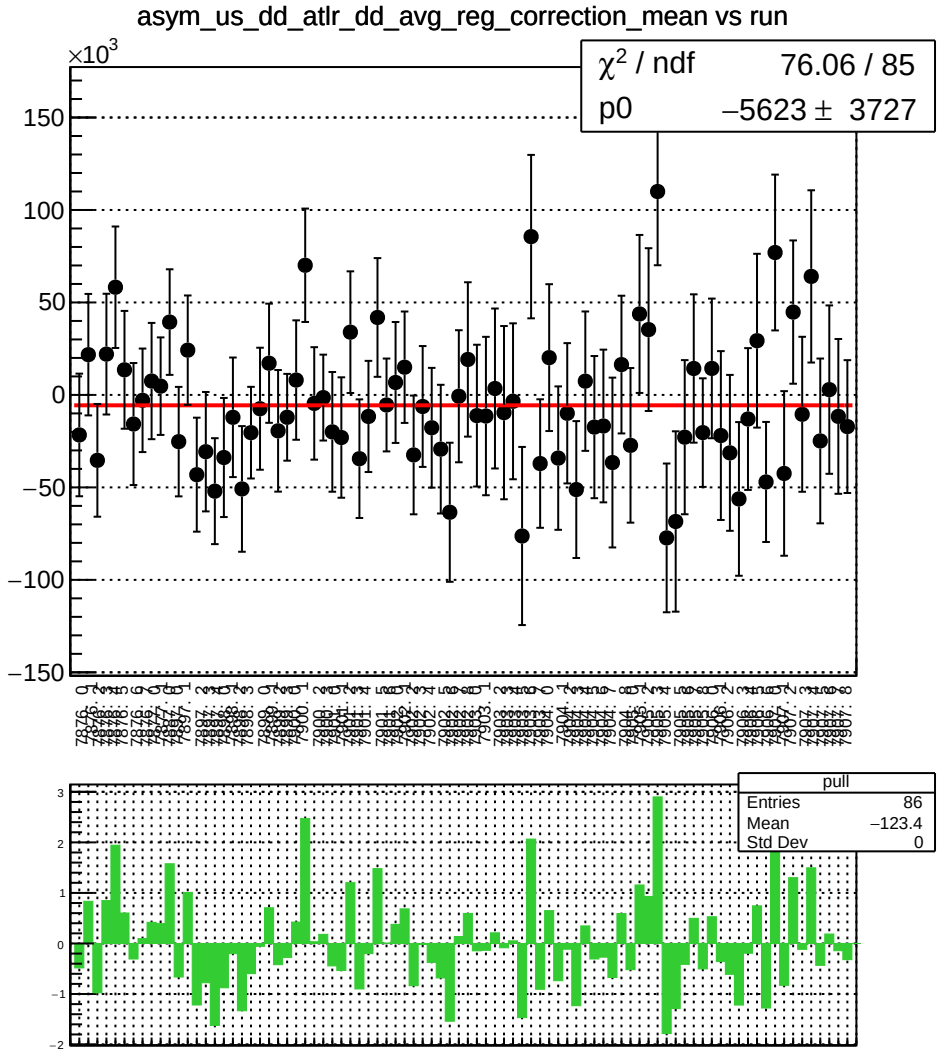

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.88 / 85
p0 4.233e−14 ± 1.543e−13
20
10
0
−10
−20
−30
pull
Entries 86
Mean 1780
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.002369
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

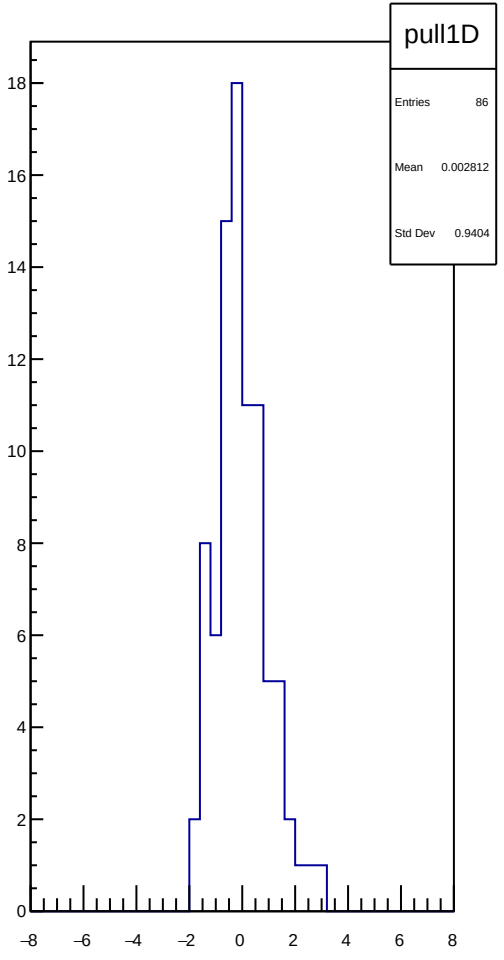

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.693e+05 / 85
p0 9.248e−11 ± 1.091e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

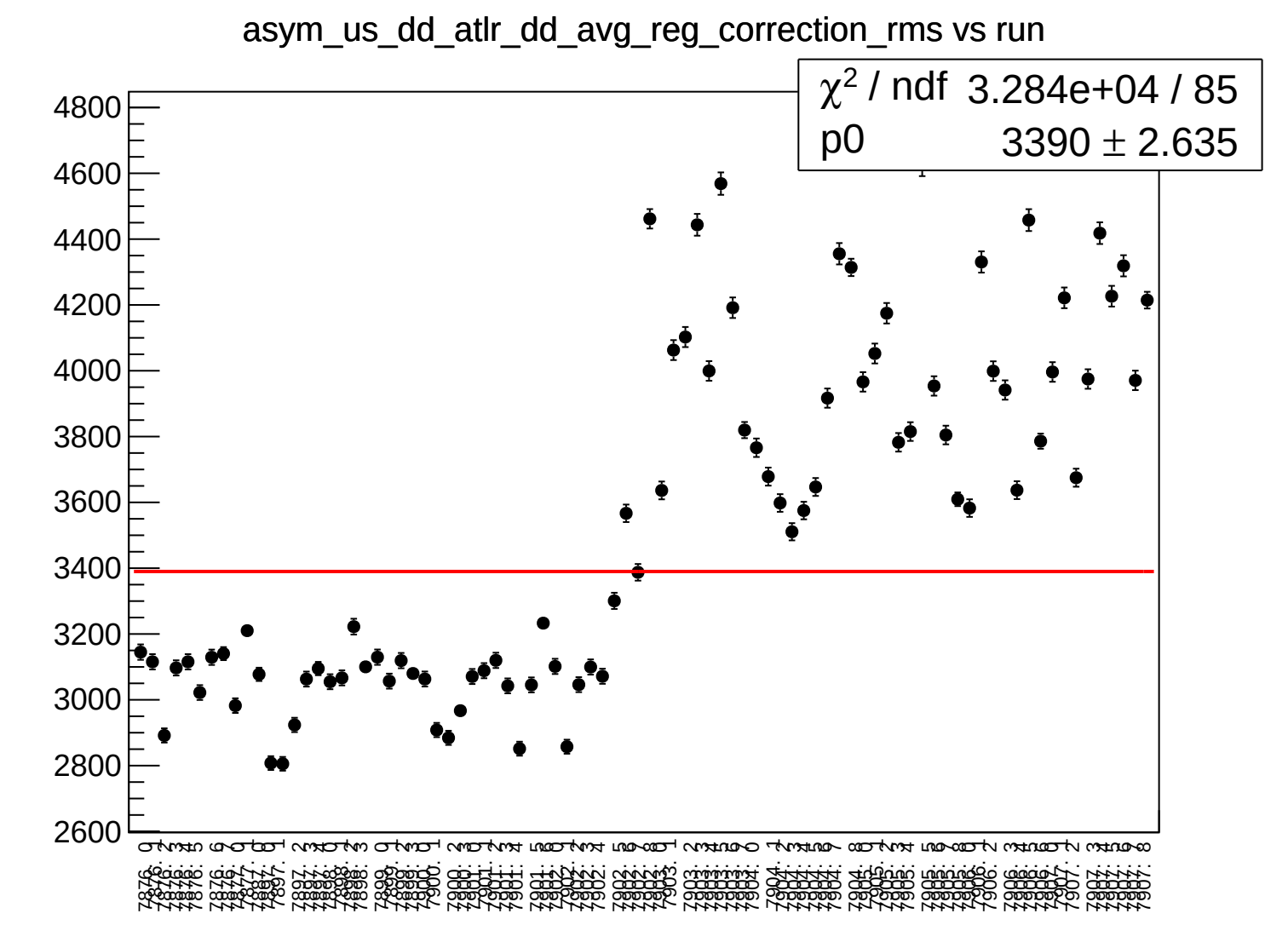

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.61 / 85
p0 771.6 ± 1956
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 317.4
Std Dev 0
2
1
0
−1
−2
−3

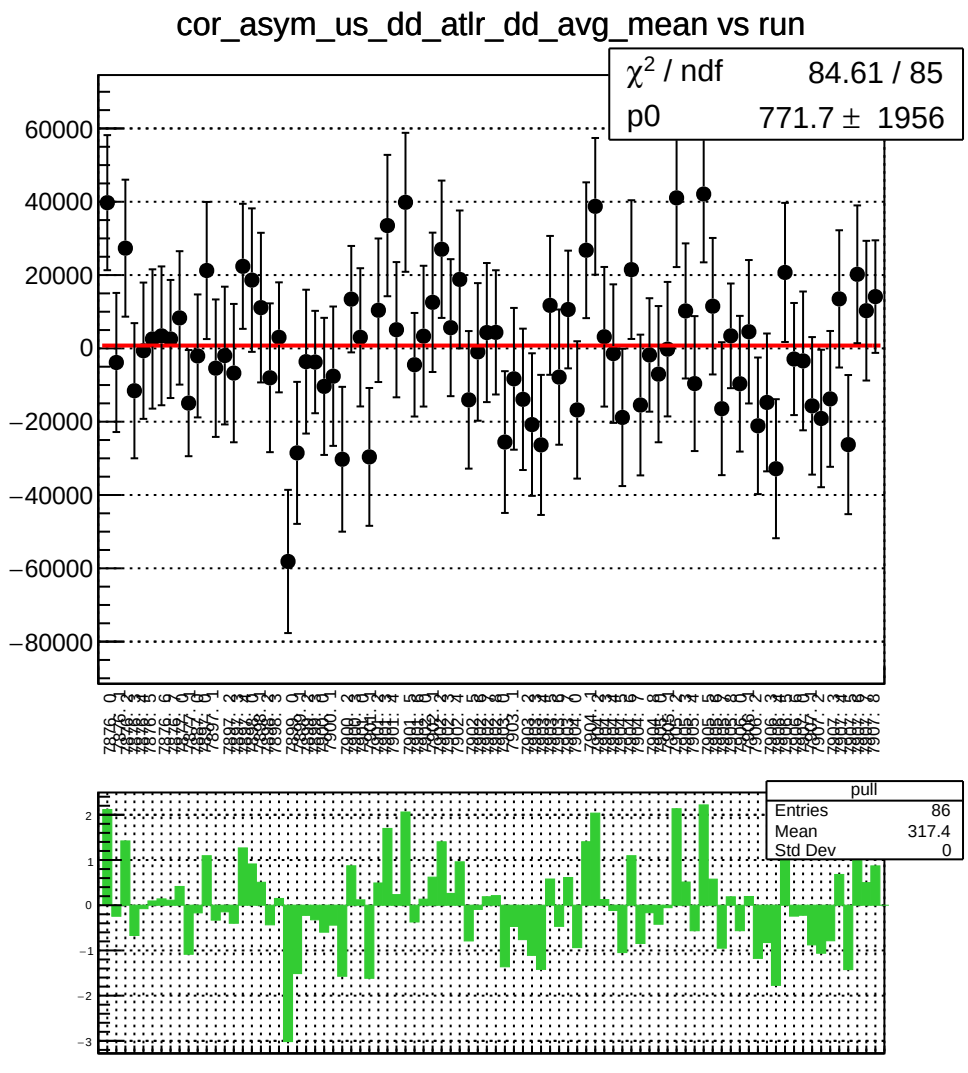

pull1D
Entries 86
Mean −0.005078
Std Dev 0.9919
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

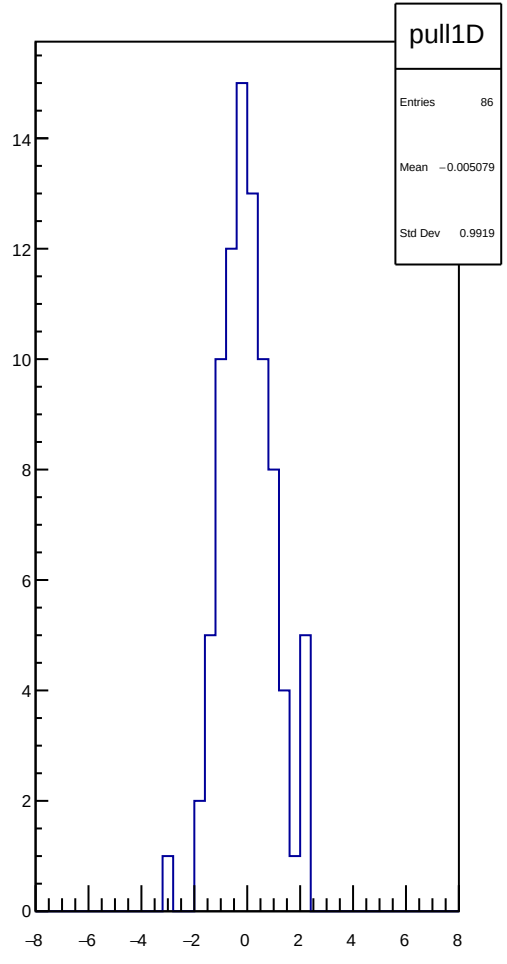

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 783.2 / 85
p0 1797 ± 1.383
1950
1900
1850
1800
1750
1700

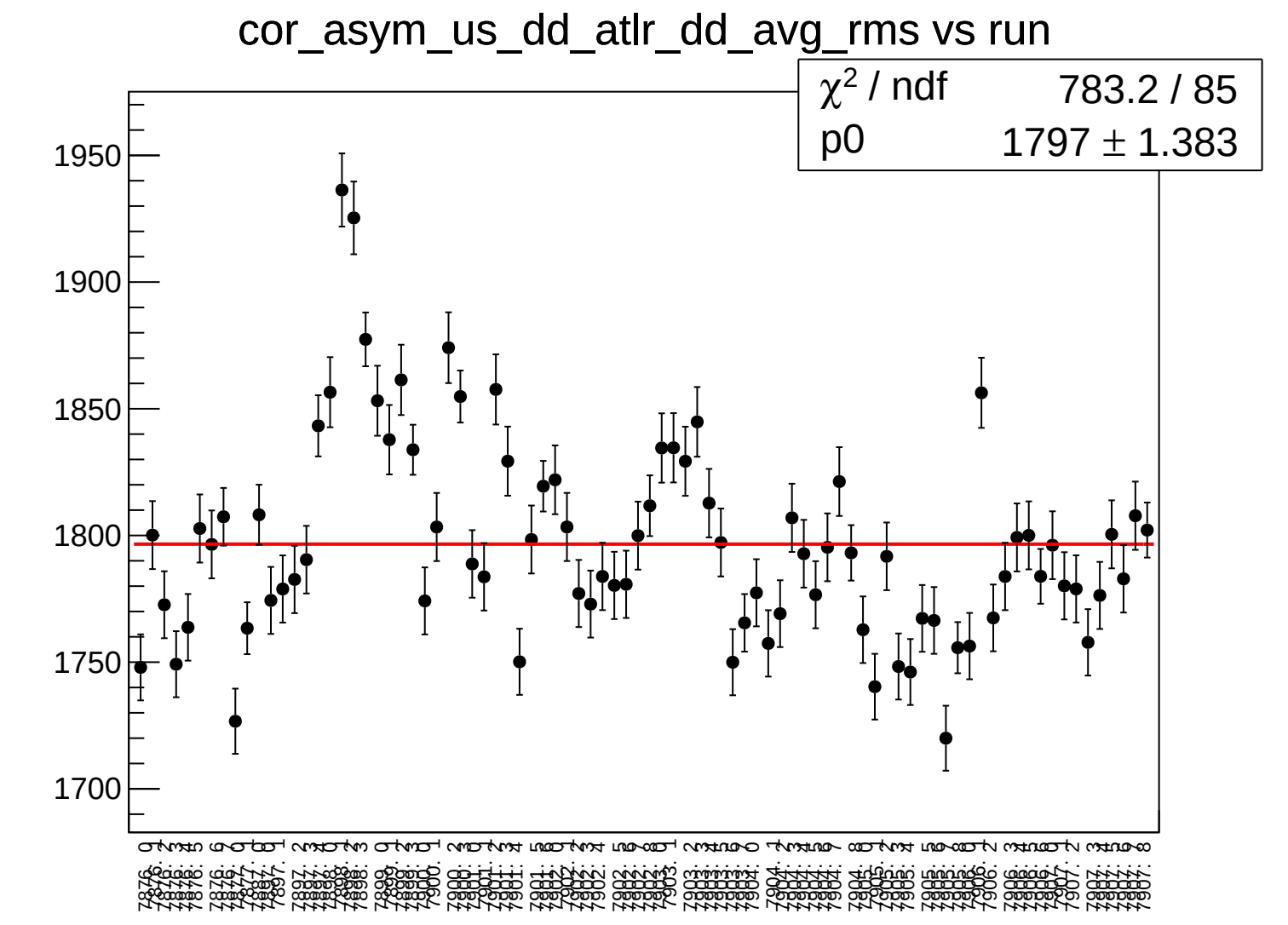

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 76.06 / 85
p0 −5623 ± 3727
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −123.4
Std Dev 0
3
2
1
0
−1
−2

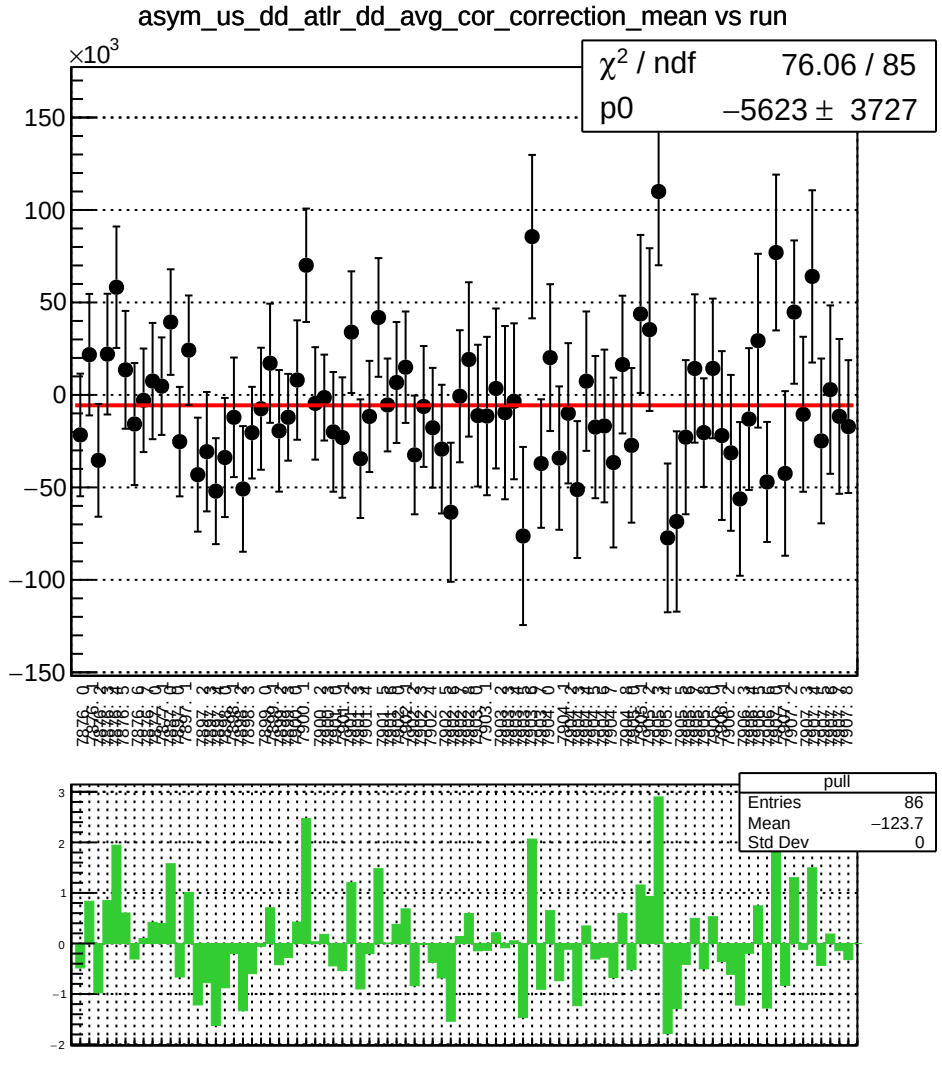

pull1D
Entries 86
Mean 0.002812
Std Dev 0.9404
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

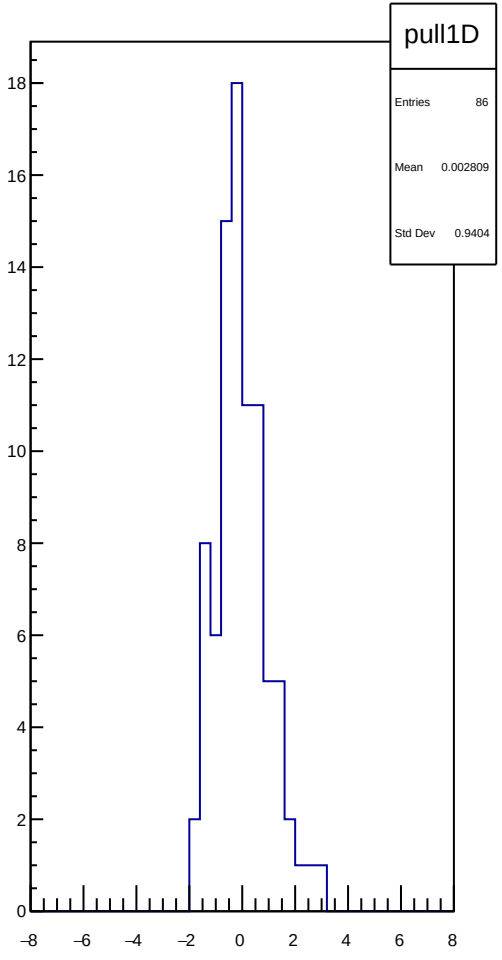

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.284e+04 / 85
p0 3390 ± 2.635
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

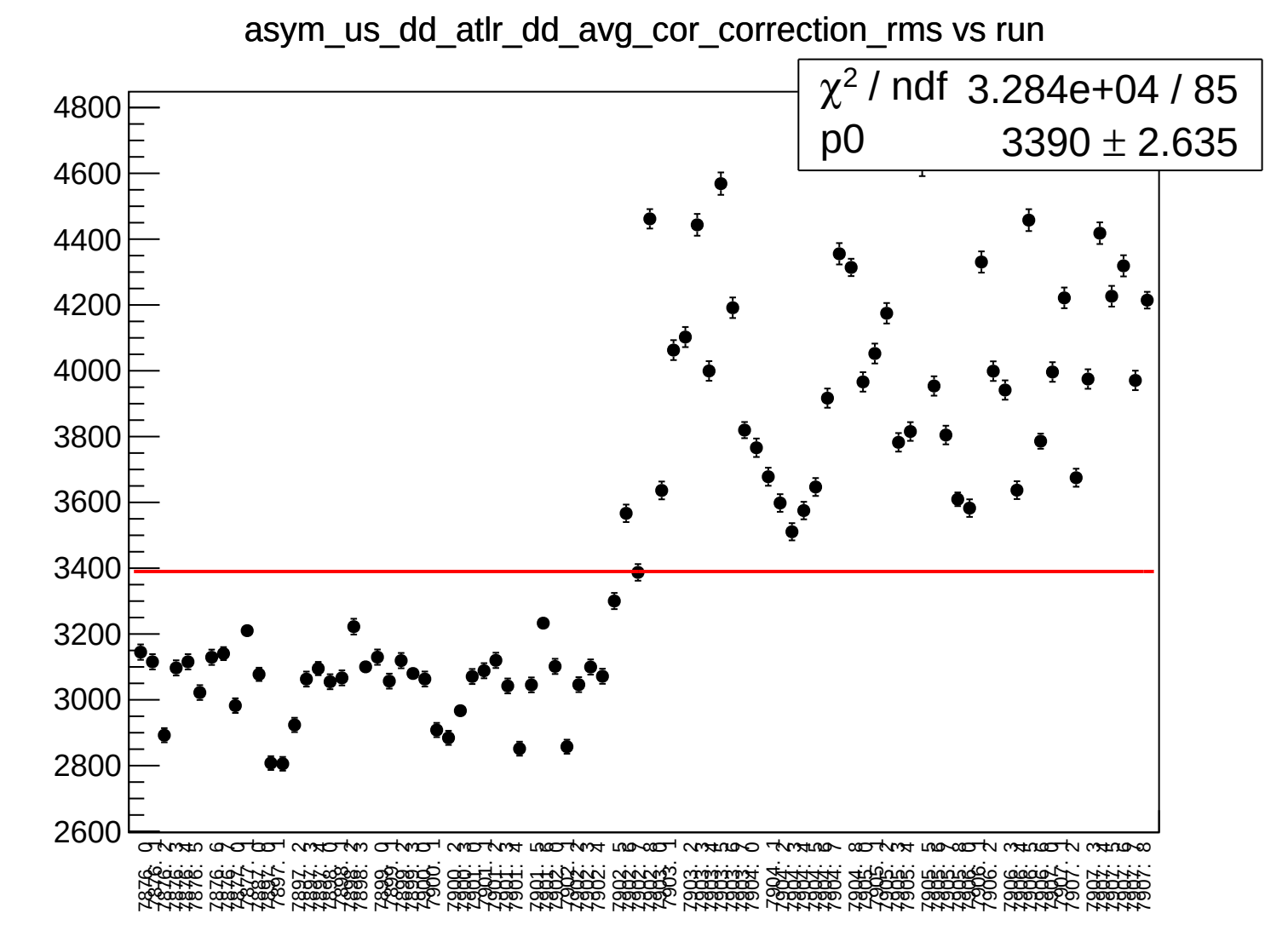

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.61 / 85
p0 771.7 ± 1956
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 317.4
Std Dev 0
2
1
0
−1
−2
−3

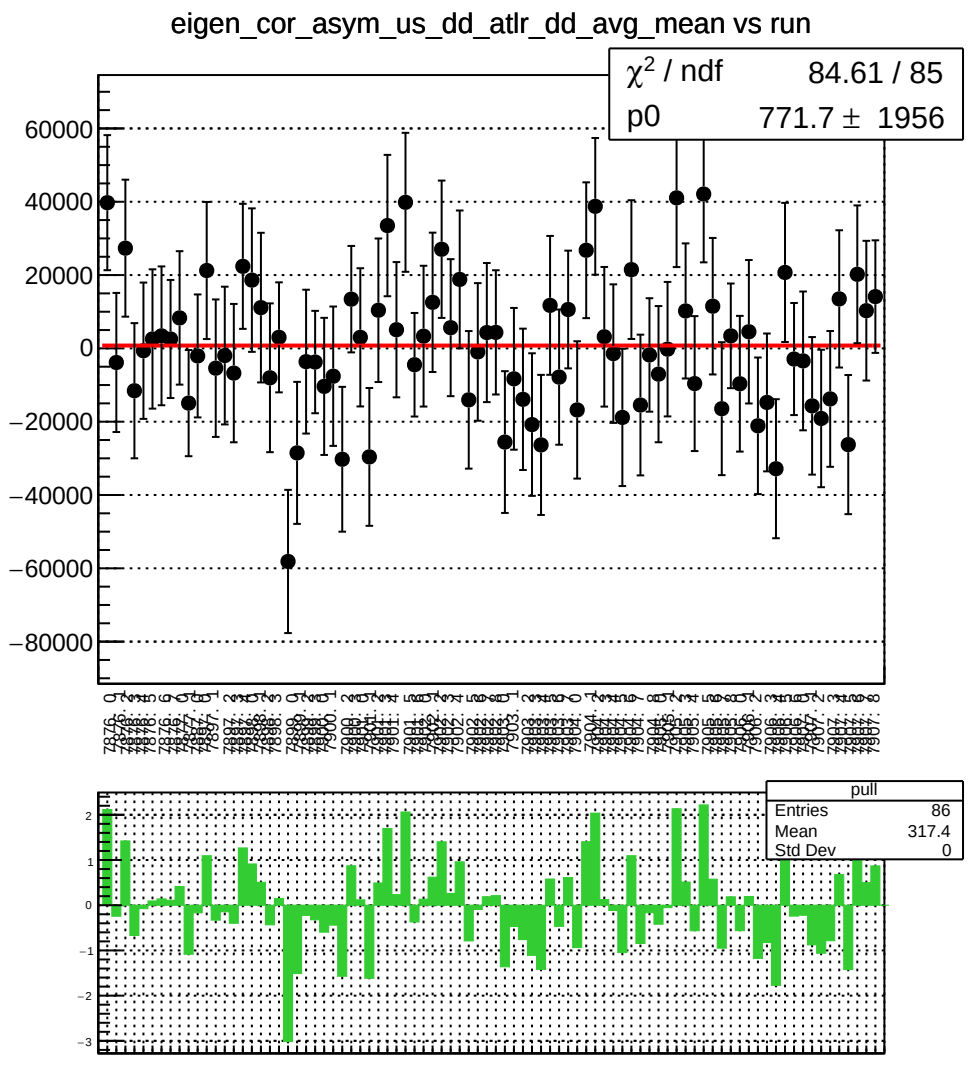

pull1D
Entries 86
Mean −0.005079
Std Dev 0.9919
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

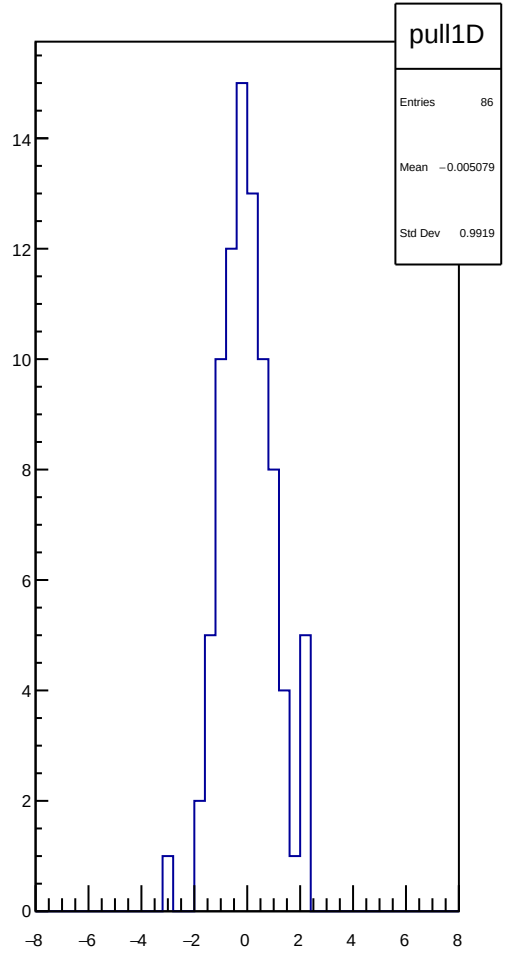

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 783.2 / 85
p0 1797 ± 1.383
1950
1900
1850
1800
1750
1700

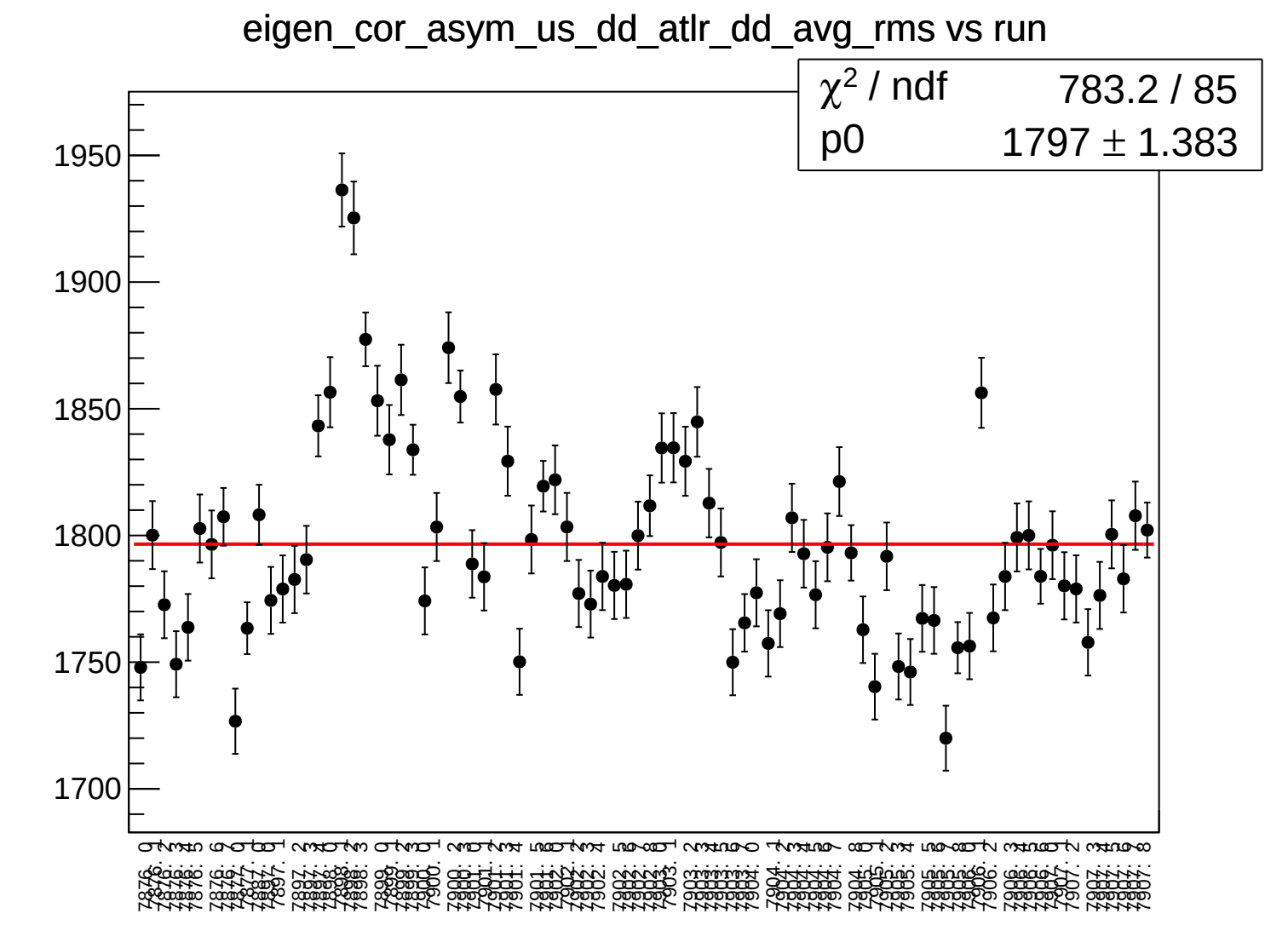

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 76.06 / 85
p0 −5623 ± 3727
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −123.7
Std Dev 0
3
2
1
0
−1
−2

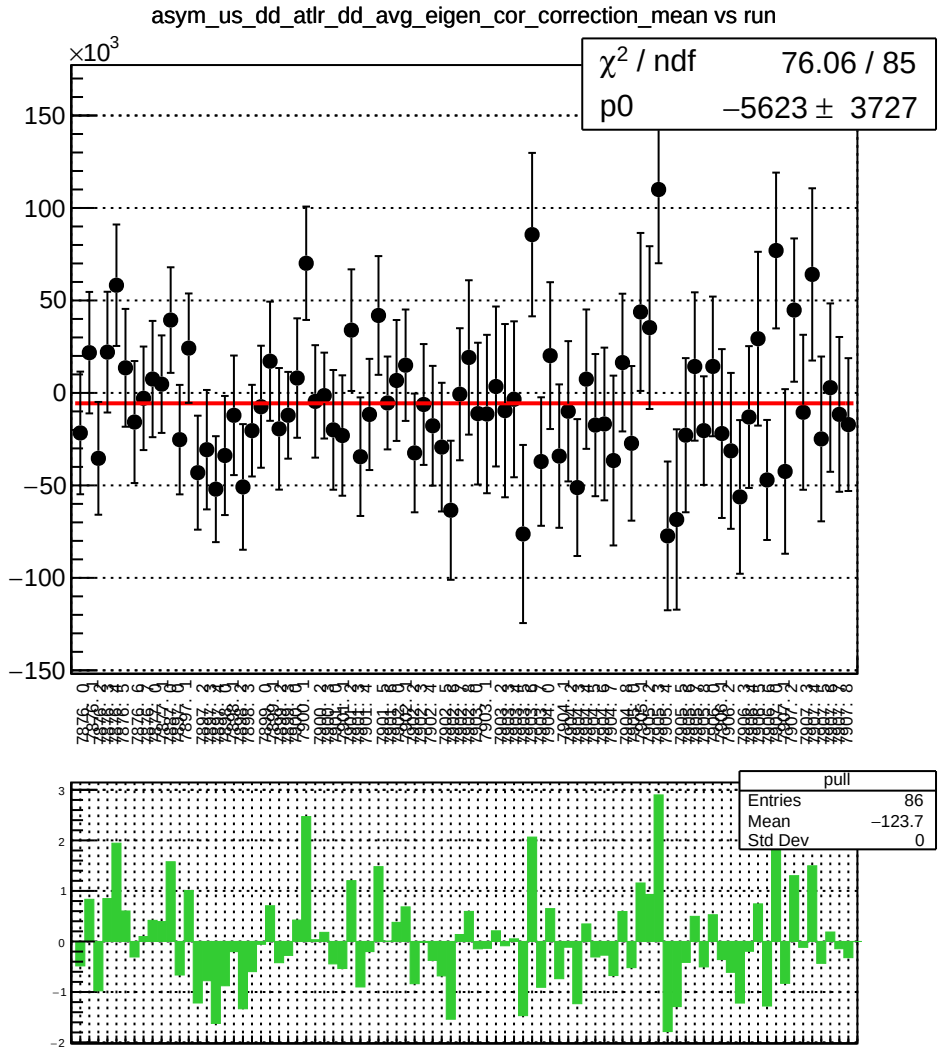

pull1D
Entries 86
Mean 0.002809
Std Dev 0.9404
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

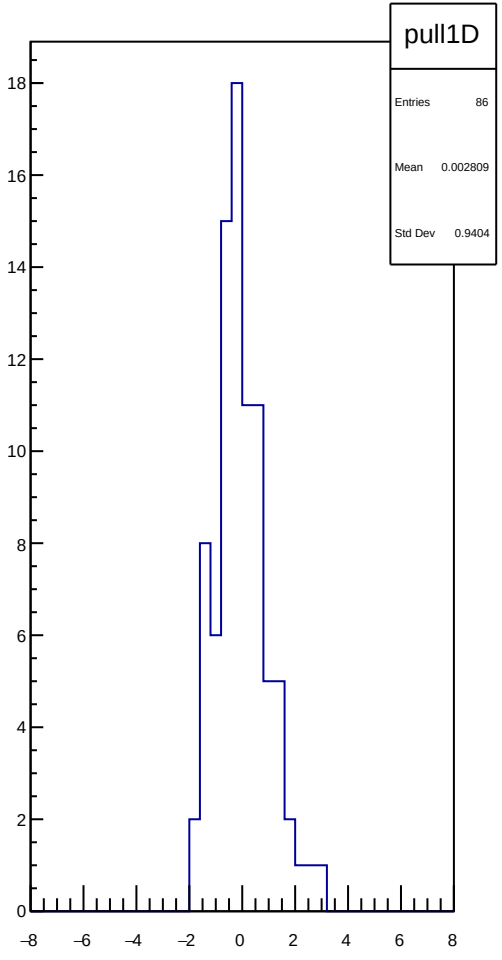

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3.284e+04 / 85
p0 3390 ± 2.635
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

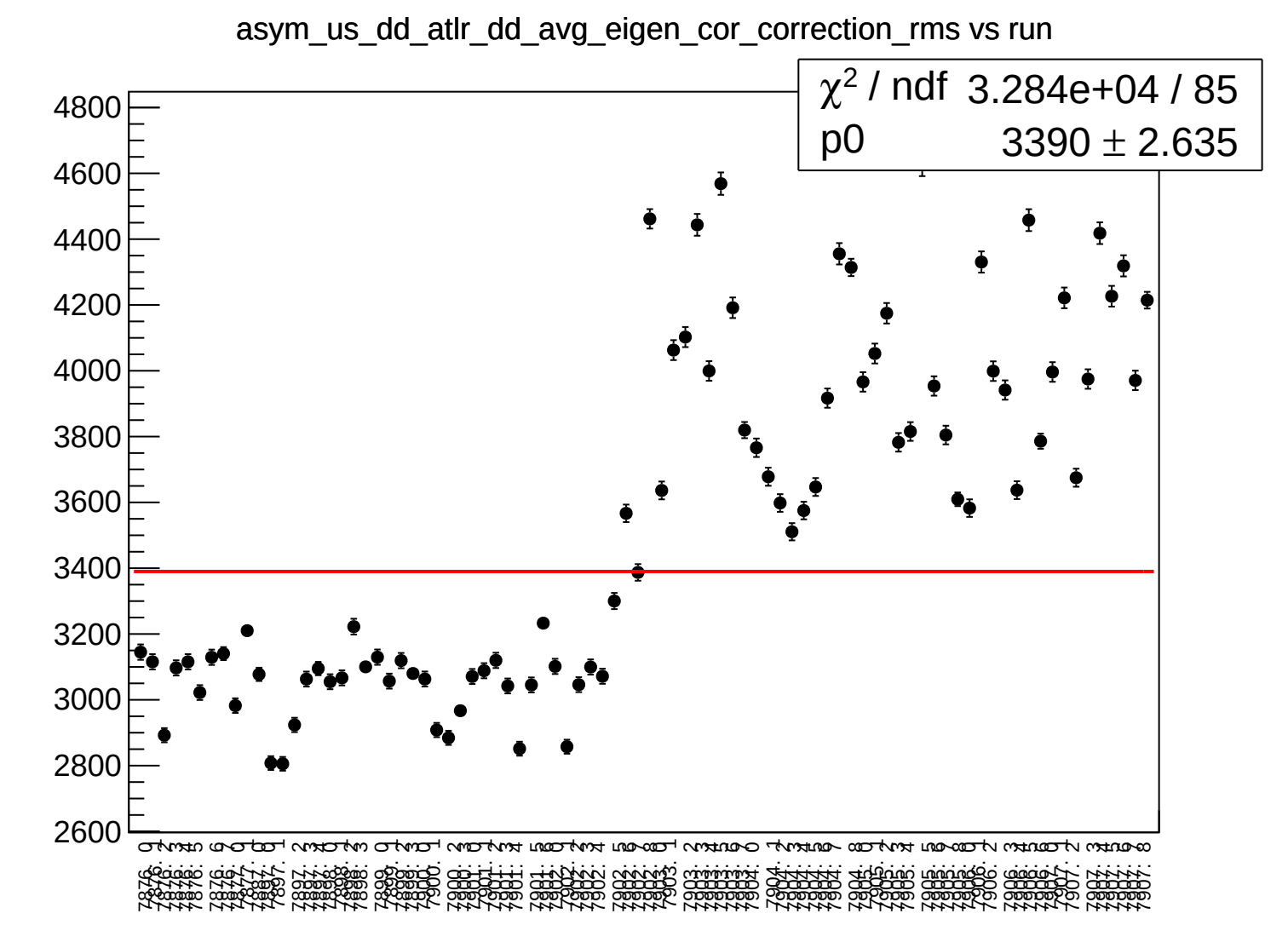

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.61 / 85
p0 771.7 ± 1956
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 317.4
Std Dev 0
2
1
0
−1
−2
−3

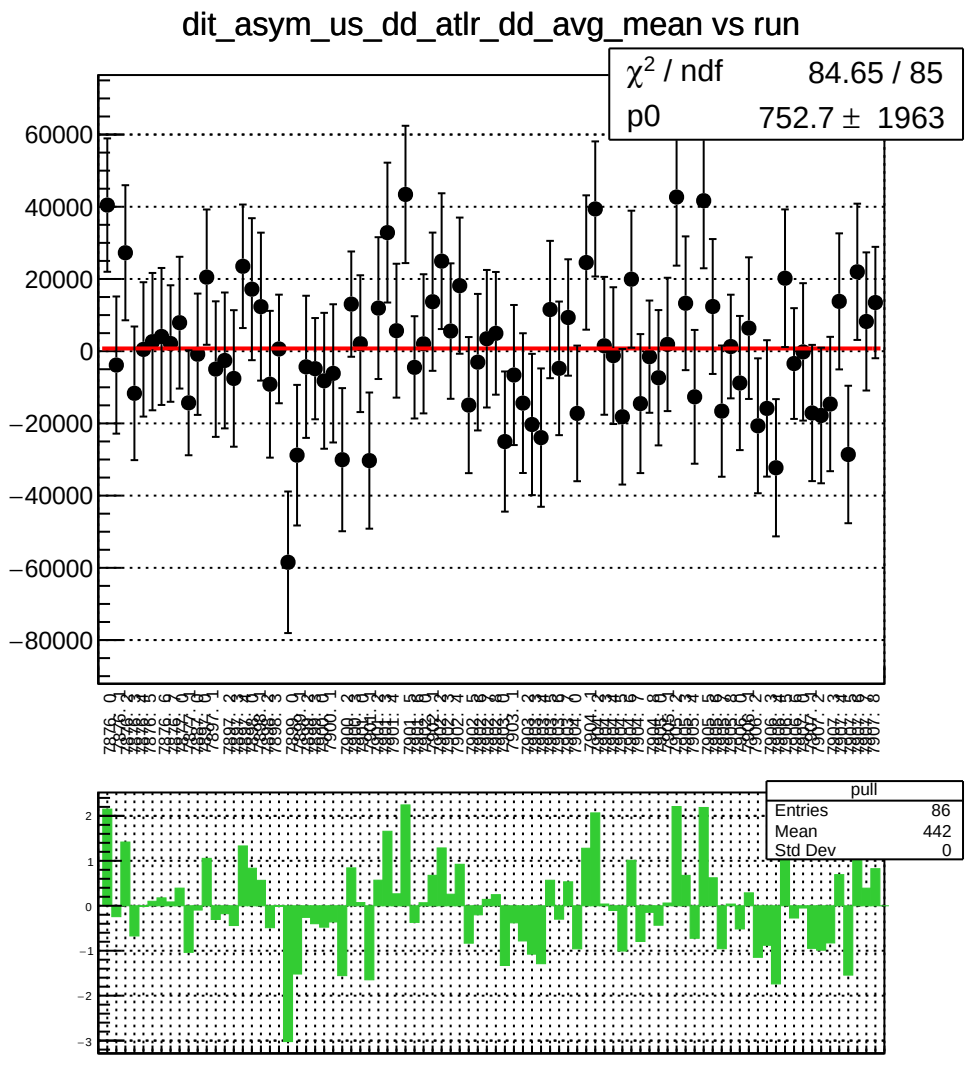

pull1D
Entries 86
Mean −0.005079
Std Dev 0.9919
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

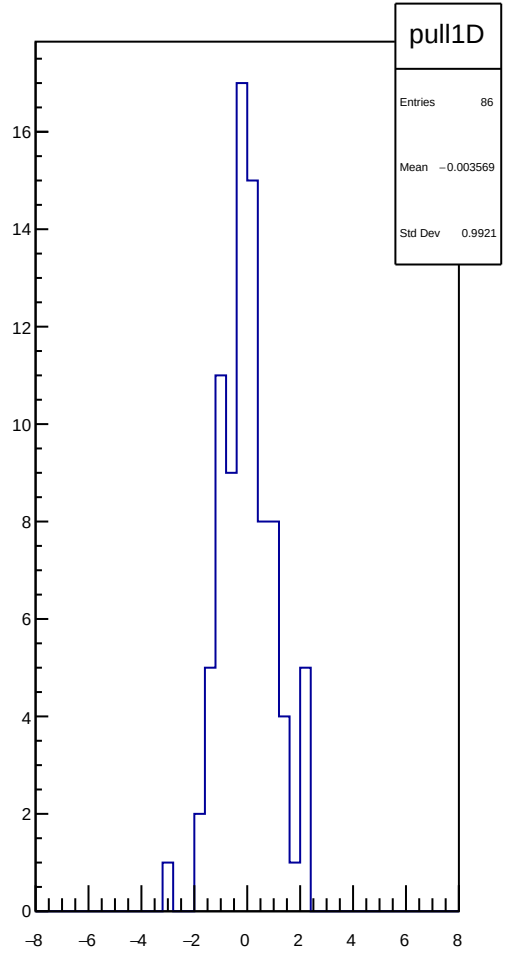

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 783.2 / 85
p0 1797 ± 1.383
1950
1900
1850
1800
1750
1700


asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 76.06 / 85
p0 −5623 ± 3727
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −123.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.002809
Std Dev 0.9404
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.284e+04 / 85
p0 3390 ± 2.635
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600


dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.65 / 85
p0 752.7 ± 1963
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 442
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.003569
Std Dev 0.9921
16
14
12
10
8
6
4
2
0
−8
−6
−4
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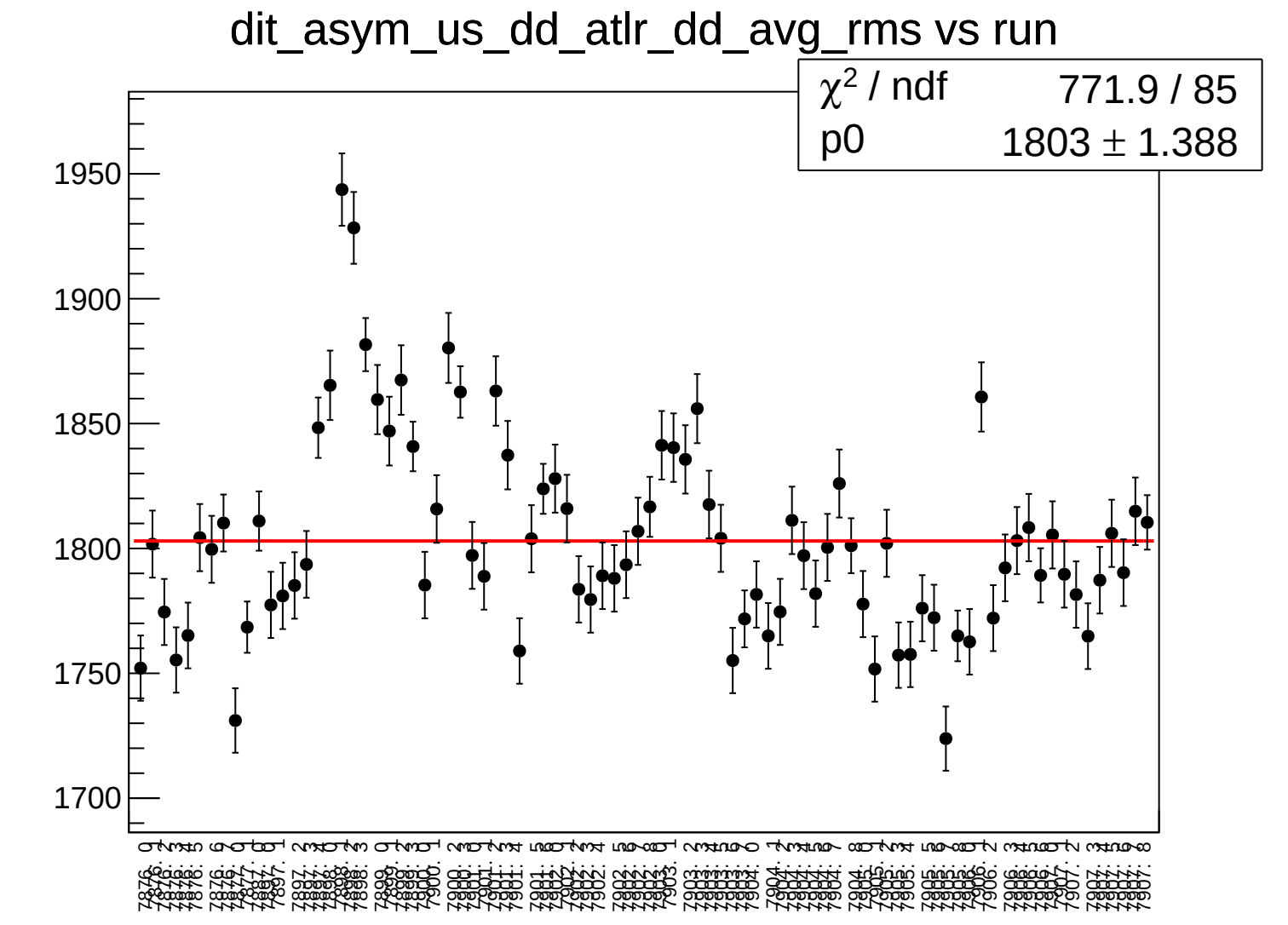
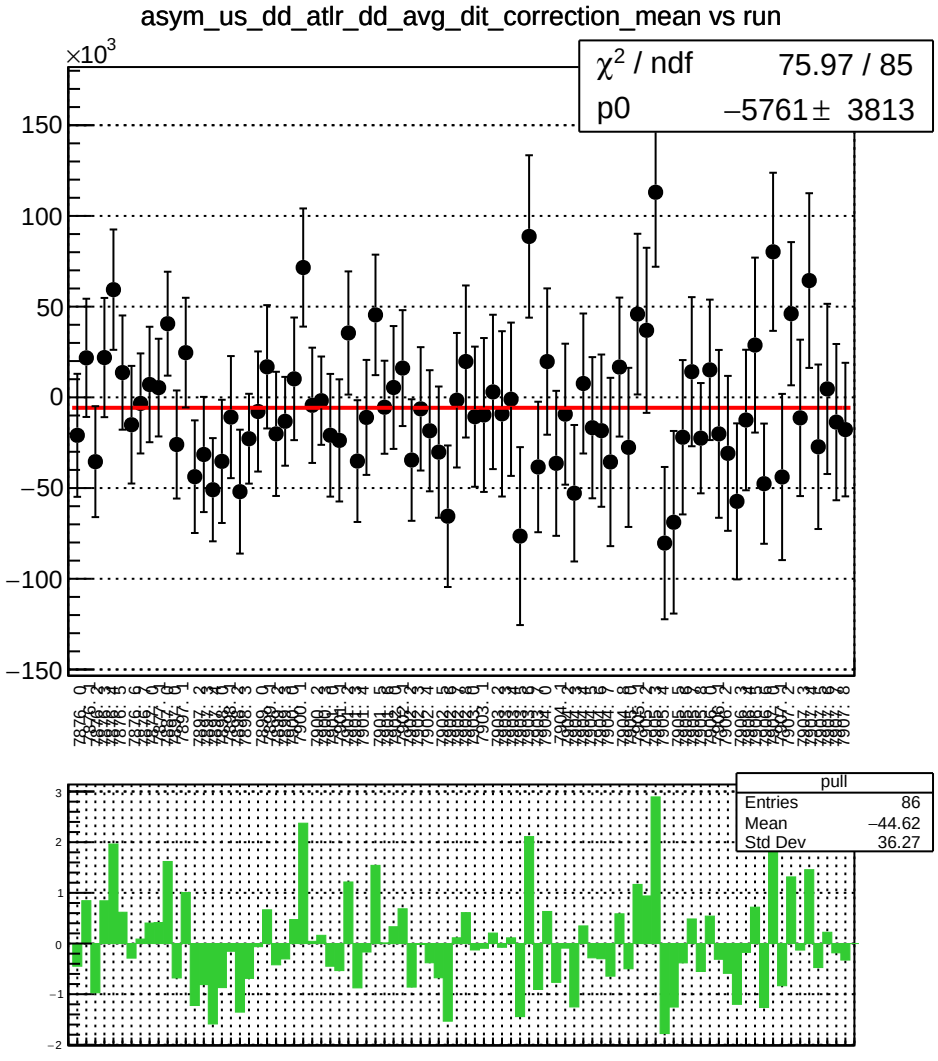
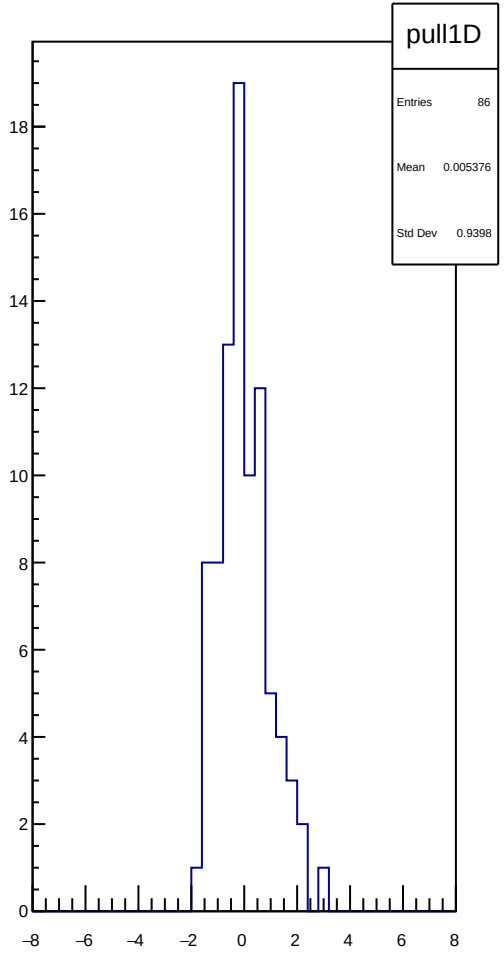
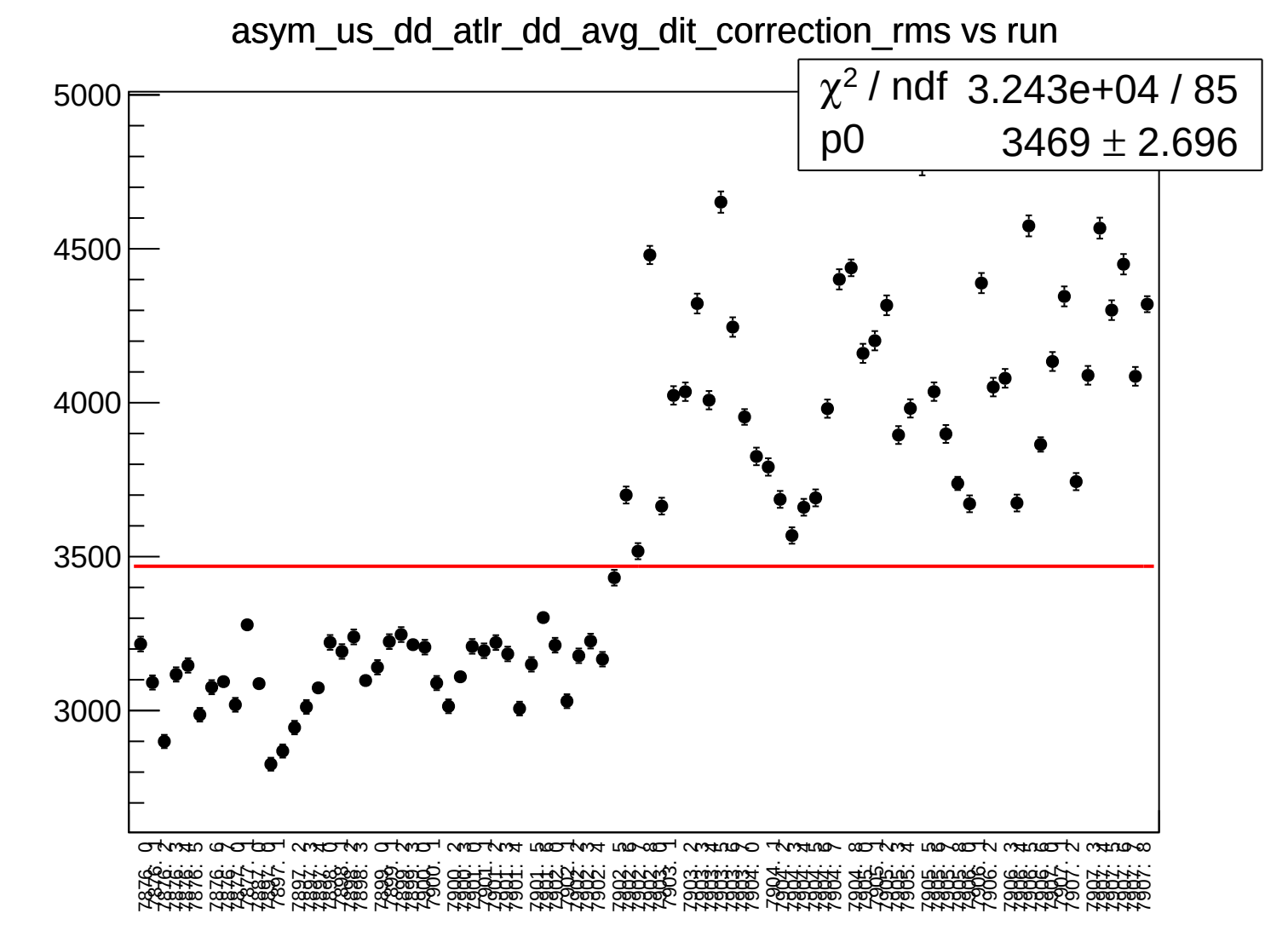
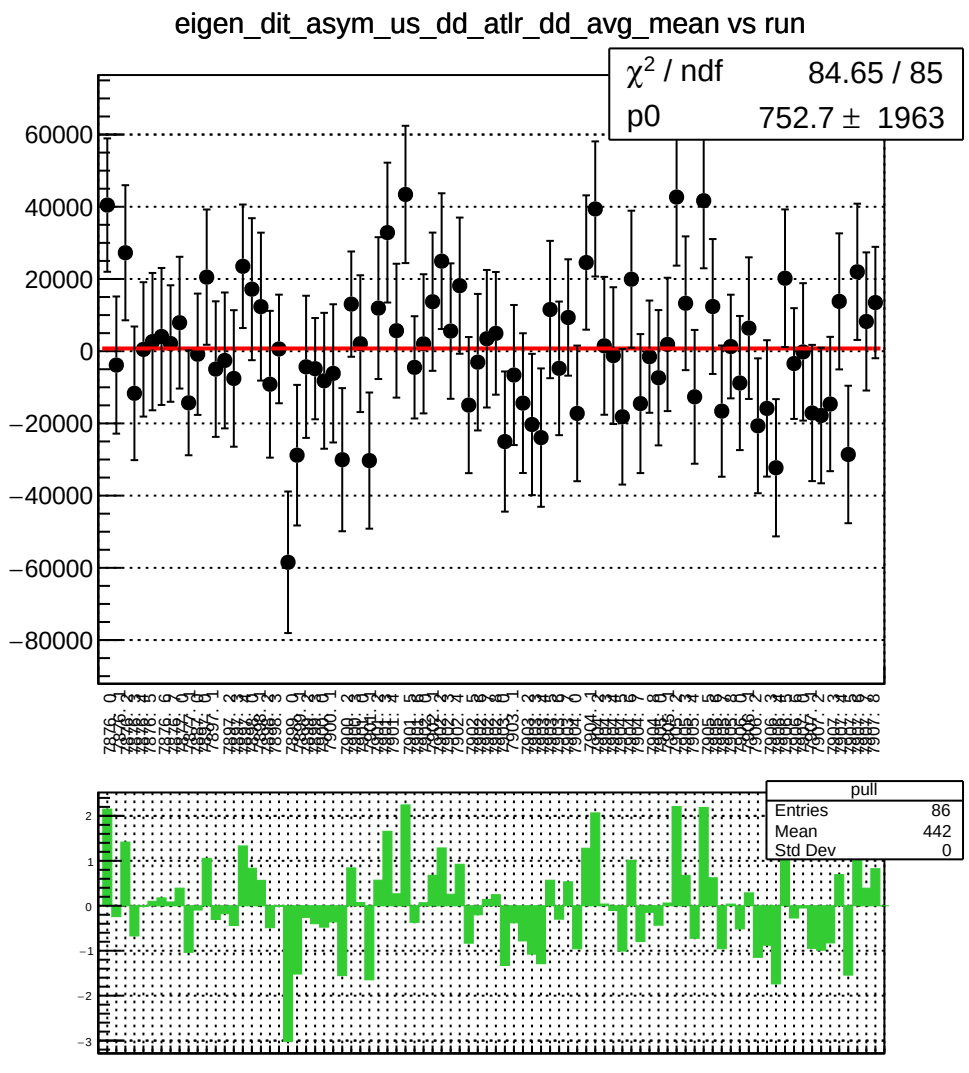
0
2
4
6
8

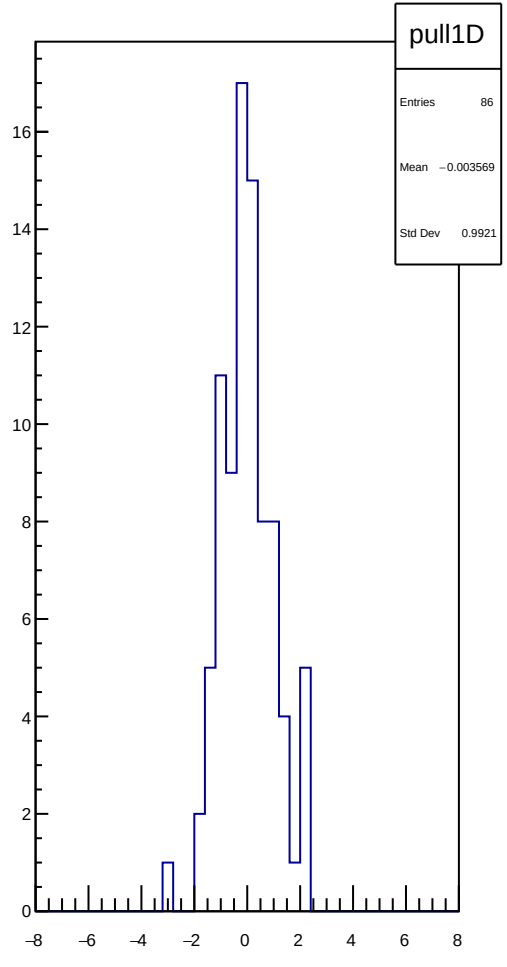

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 771.9 / 85
p0 1803 ± 1.388
1950
1900
1850
1800
1750
1700

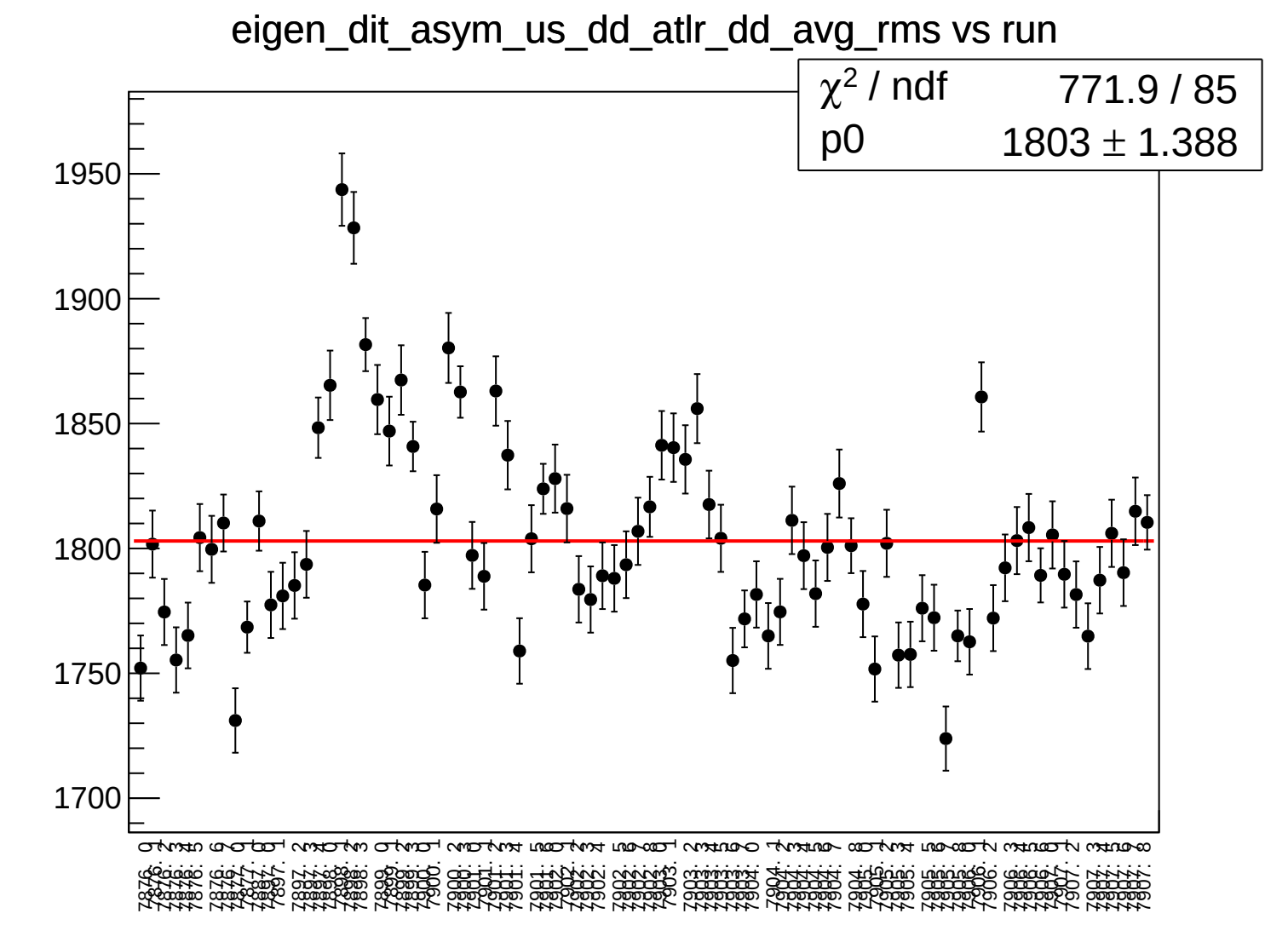

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 75.97 / 85
p0 −5761 ± 3813
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −44.62
Std Dev 36.27
3
2
1
0
−1
−2

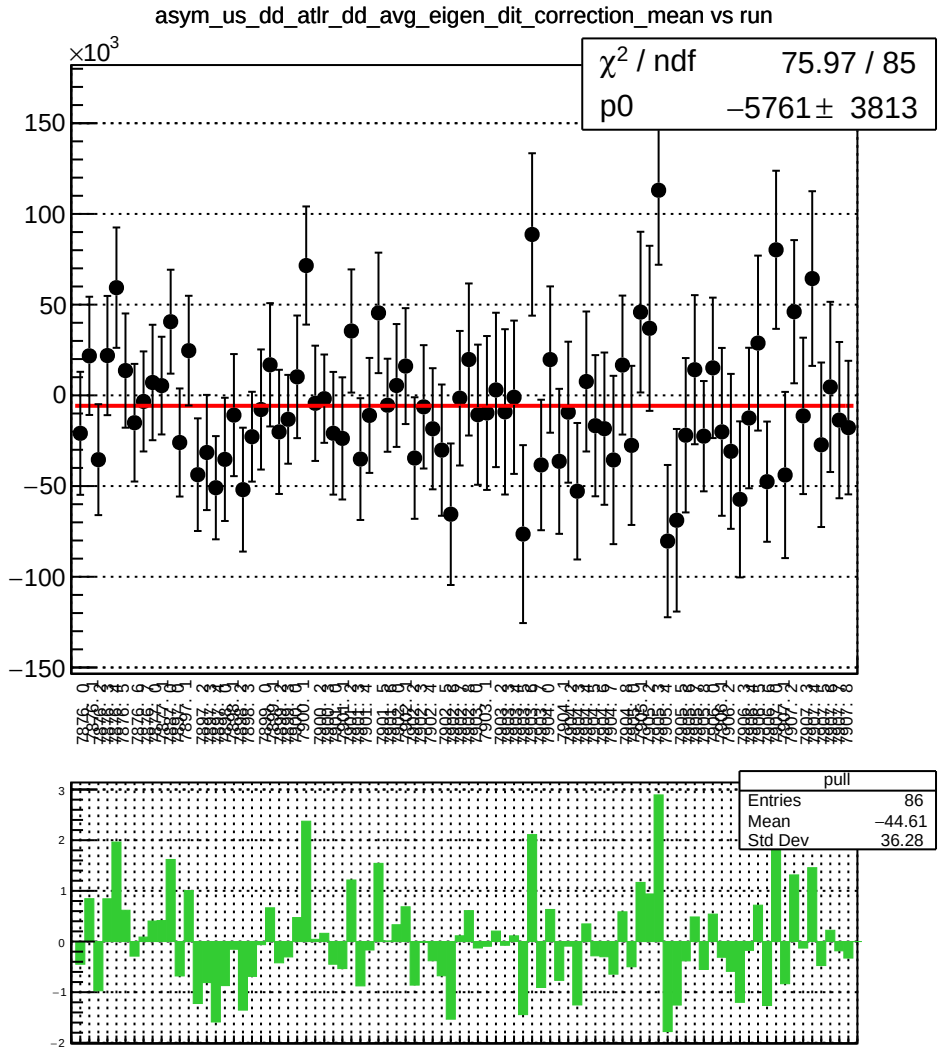

pull1D
Entries 86
Mean 0.005376
Std Dev 0.9398
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

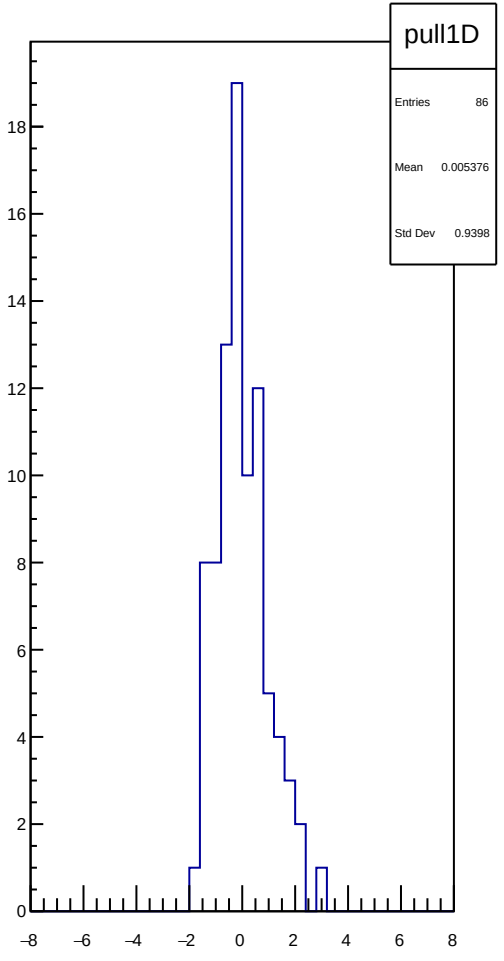

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ^2 / ndf 3.243e+04 / 85
p0 3469 ± 2.696
5000
4500
4000
3500
3000

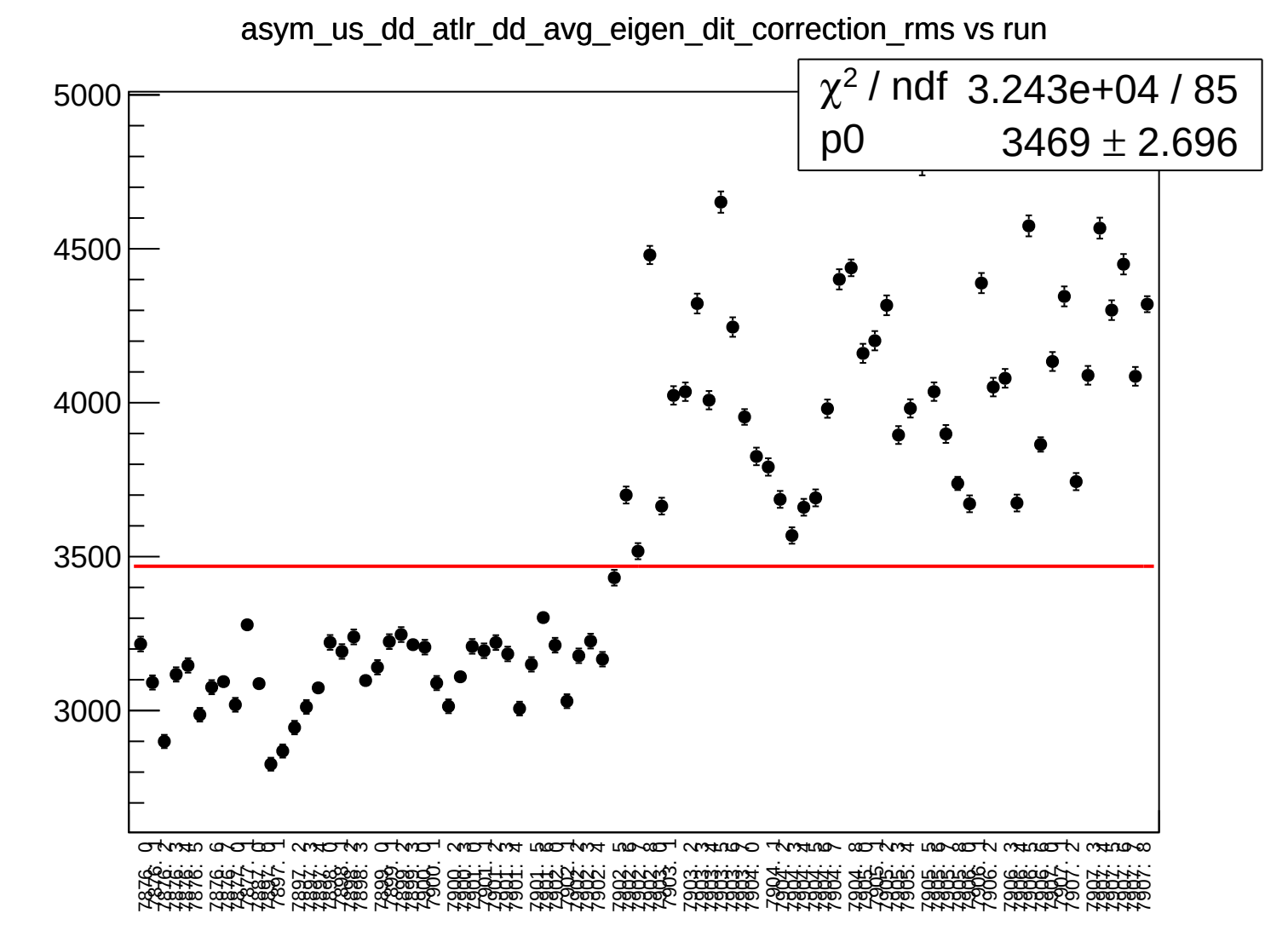

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.65 / 85
p0 752.7 ± 1963
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 442
Std Dev 0
2
1
0
−1
−2
−3

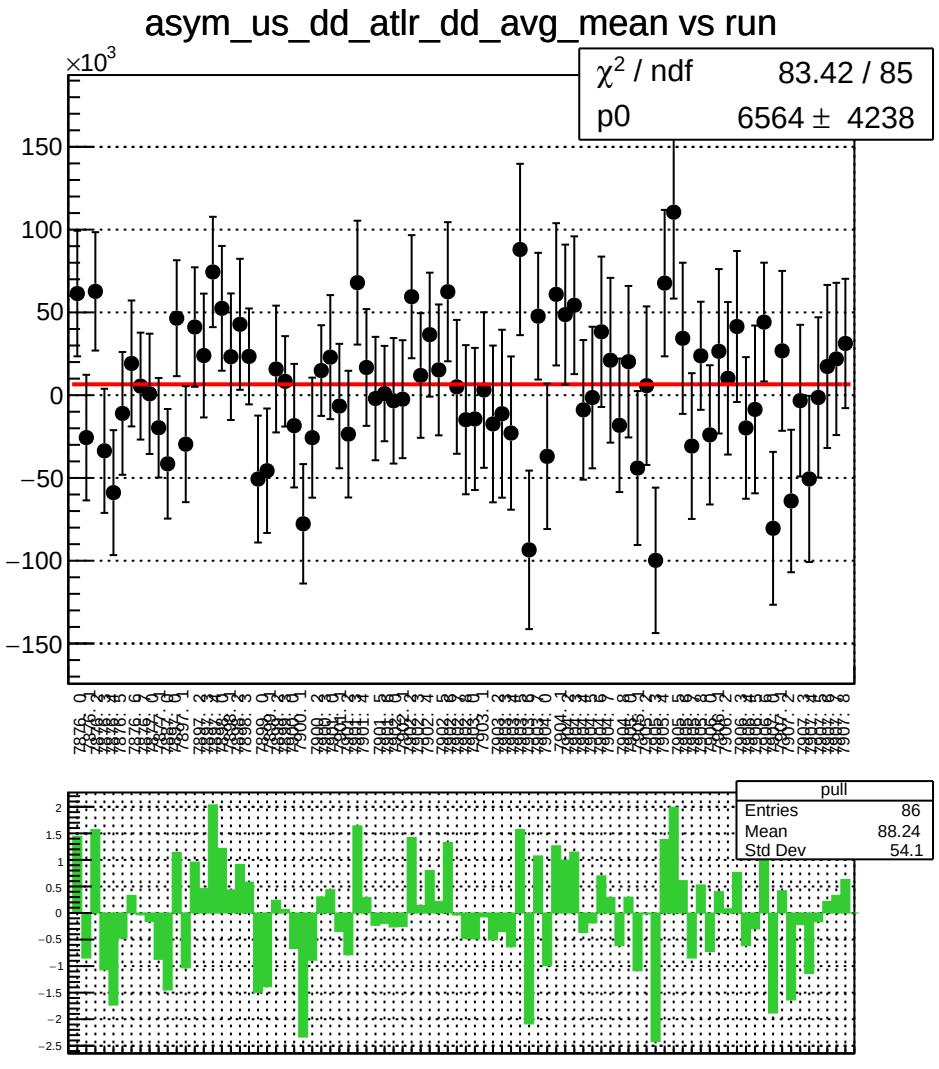

pull1D
Entries 86
Mean −0.003569
Std Dev 0.9921
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

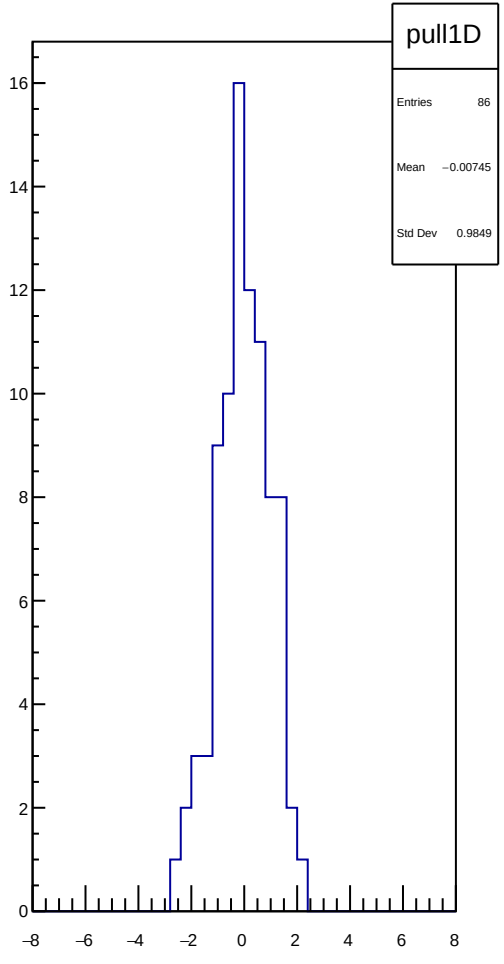

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 771.9 / 85
p0 1803 ± 1.388
1950
1900
1850
1800
1750
1700

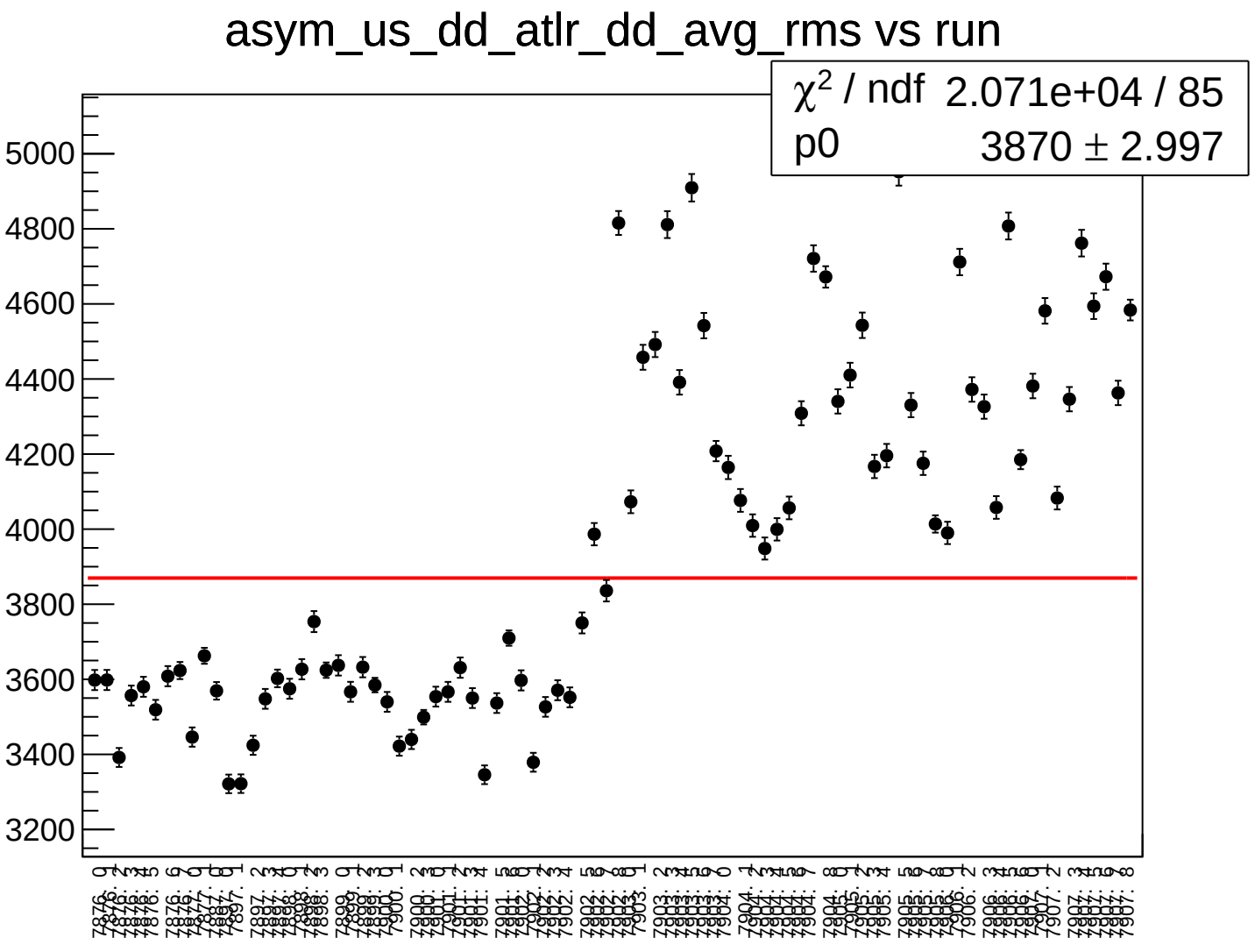

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 75.97 / 85
p0 −5761 ± 3813
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −44.61
Std Dev 36.28
3
2
1
0
−1
−2

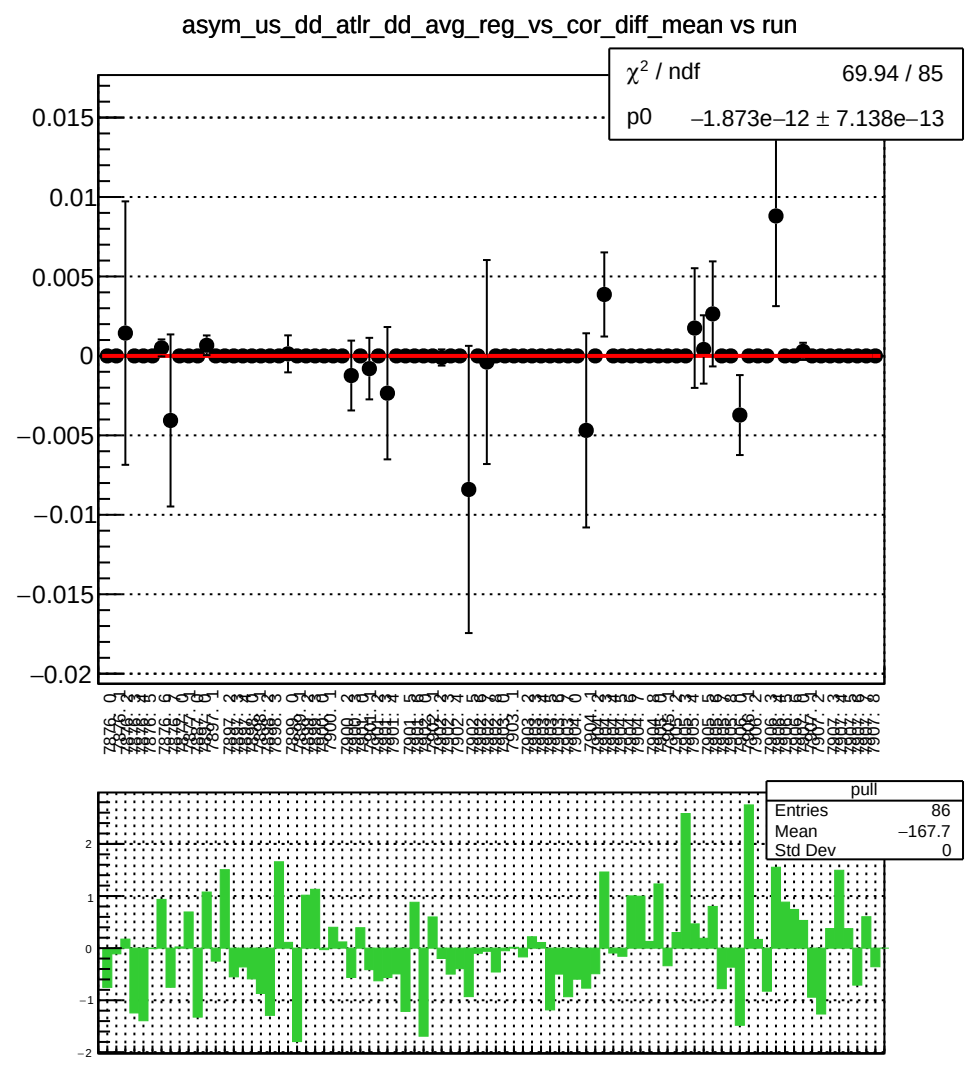

pull1D
Entries 86
Mean 0.005376
Std Dev 0.9398
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

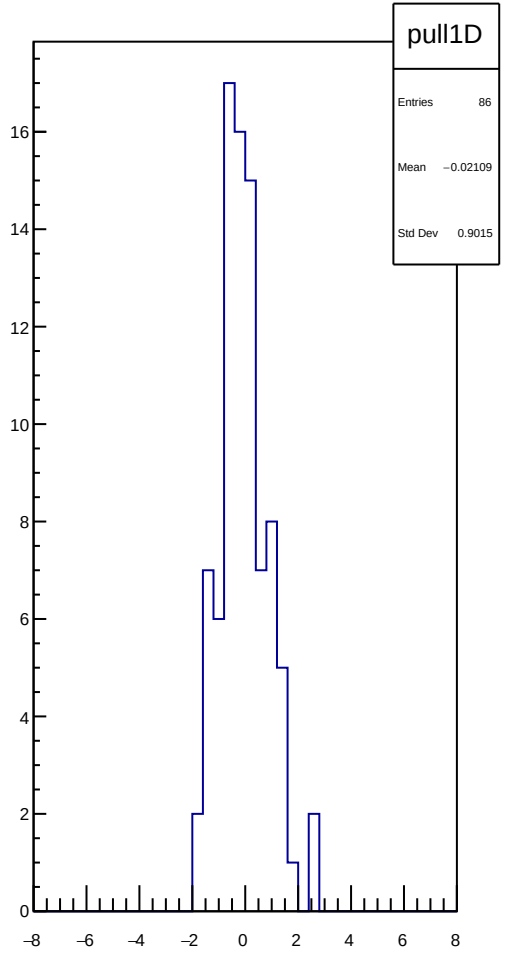

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.243e+04 / 85
p0 3469 ± 2.696
5000
4500
4000
3500
3000

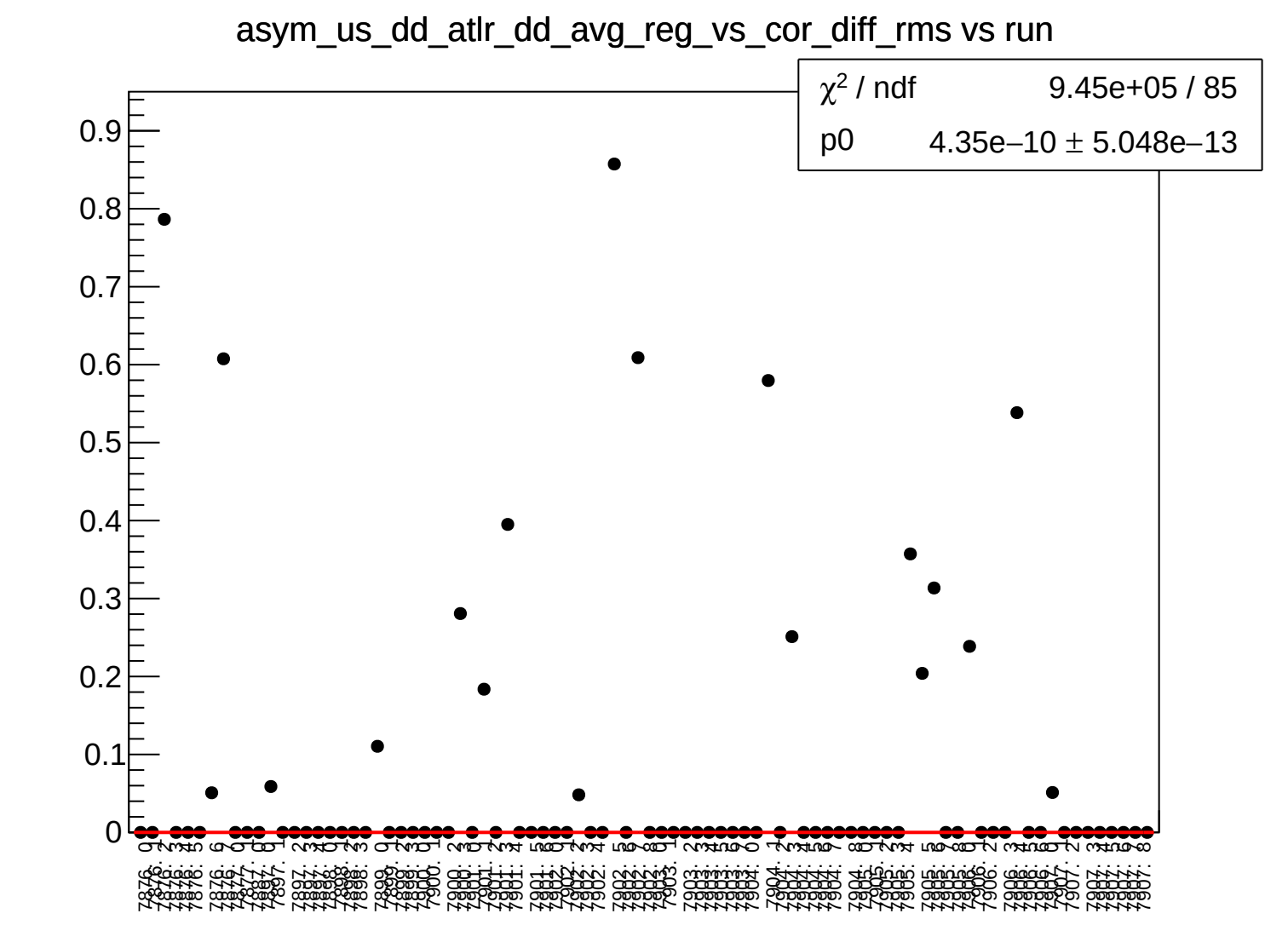

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 83.42 / 85
p0 6564 ± 4238
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 88.24
Std Dev 54.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

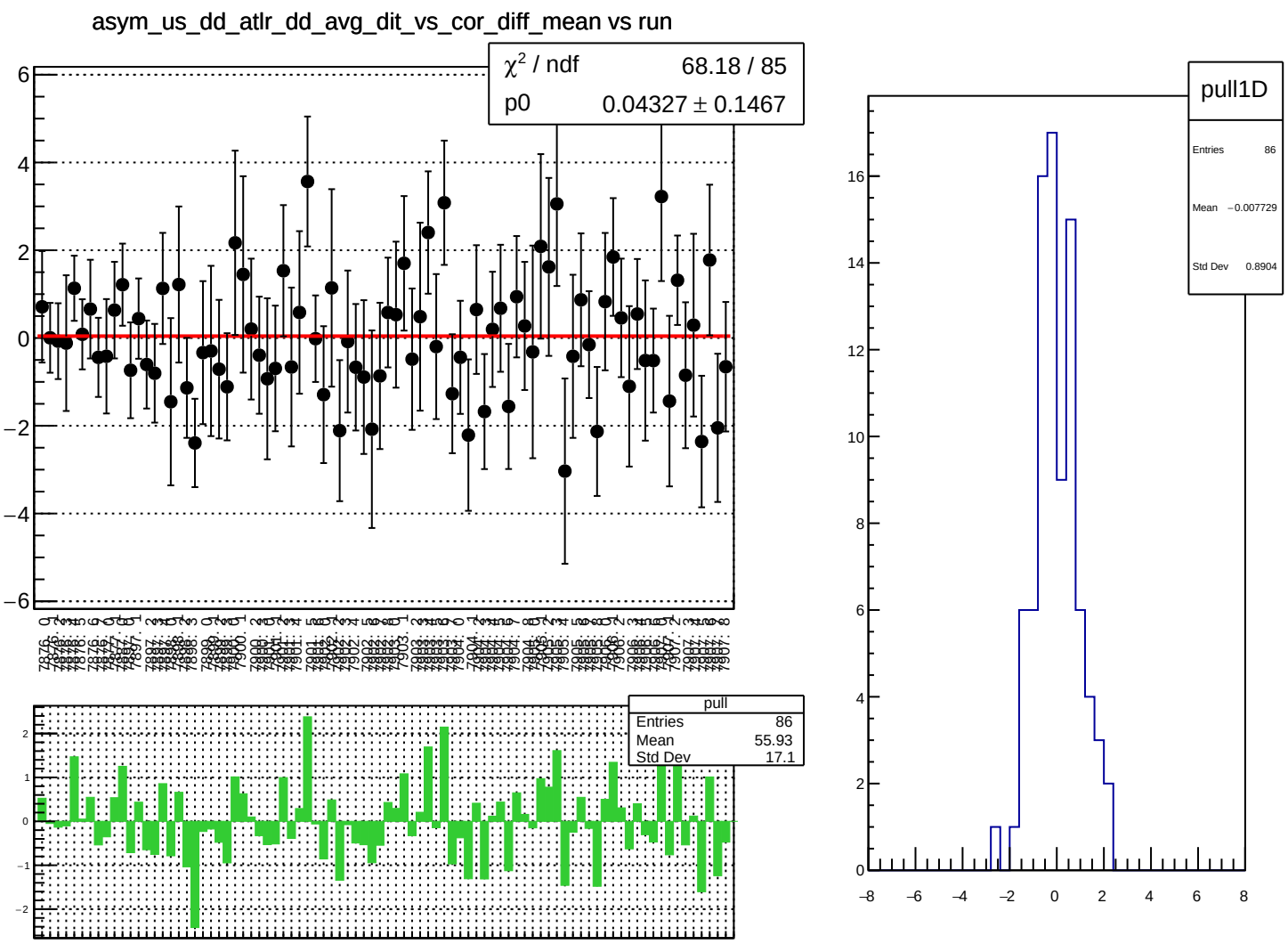

pull1D
Entries 86
Mean −0.00745
Std Dev 0.9849
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

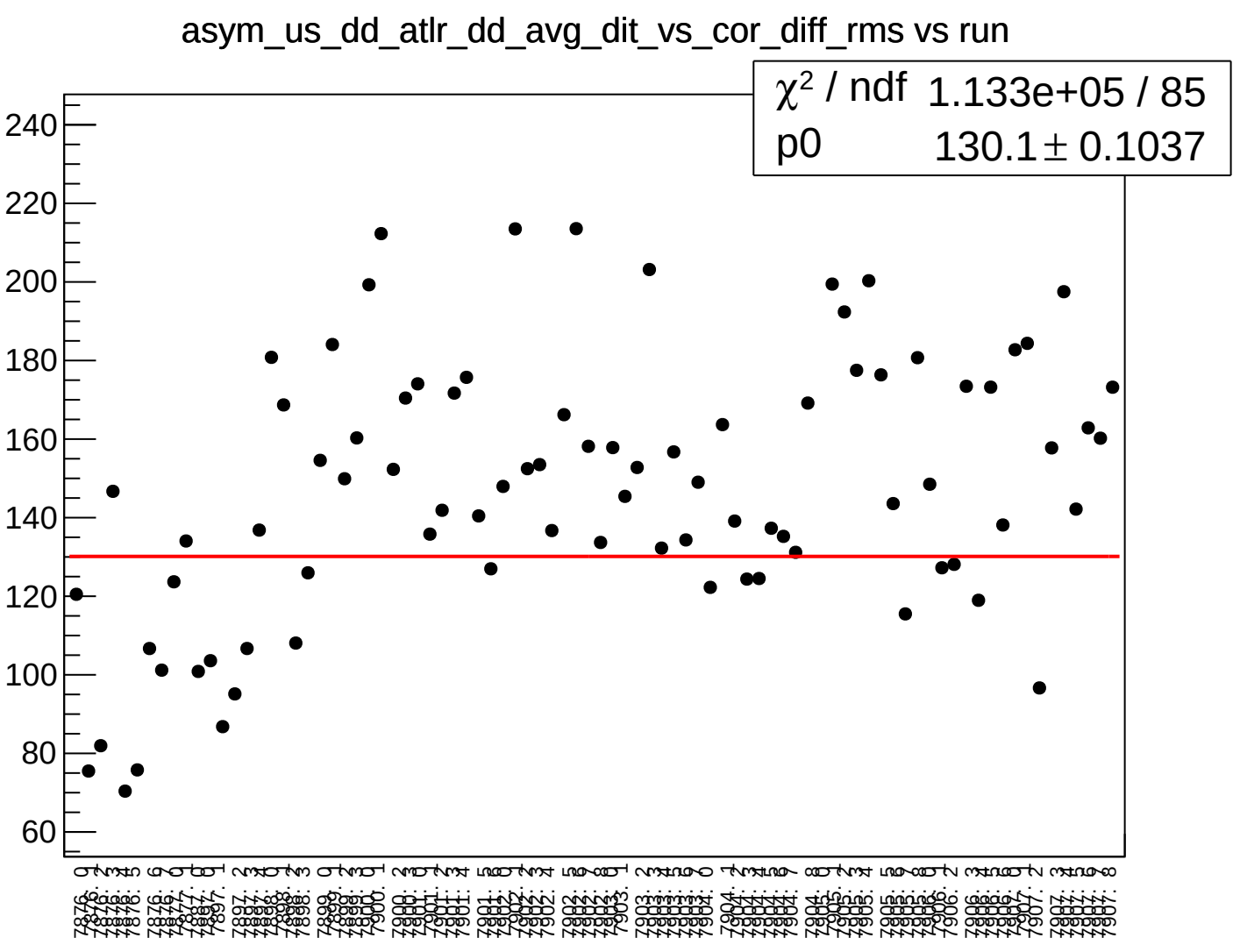

asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 2.071e+04 / 85
p0 3870 ± 2.997
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

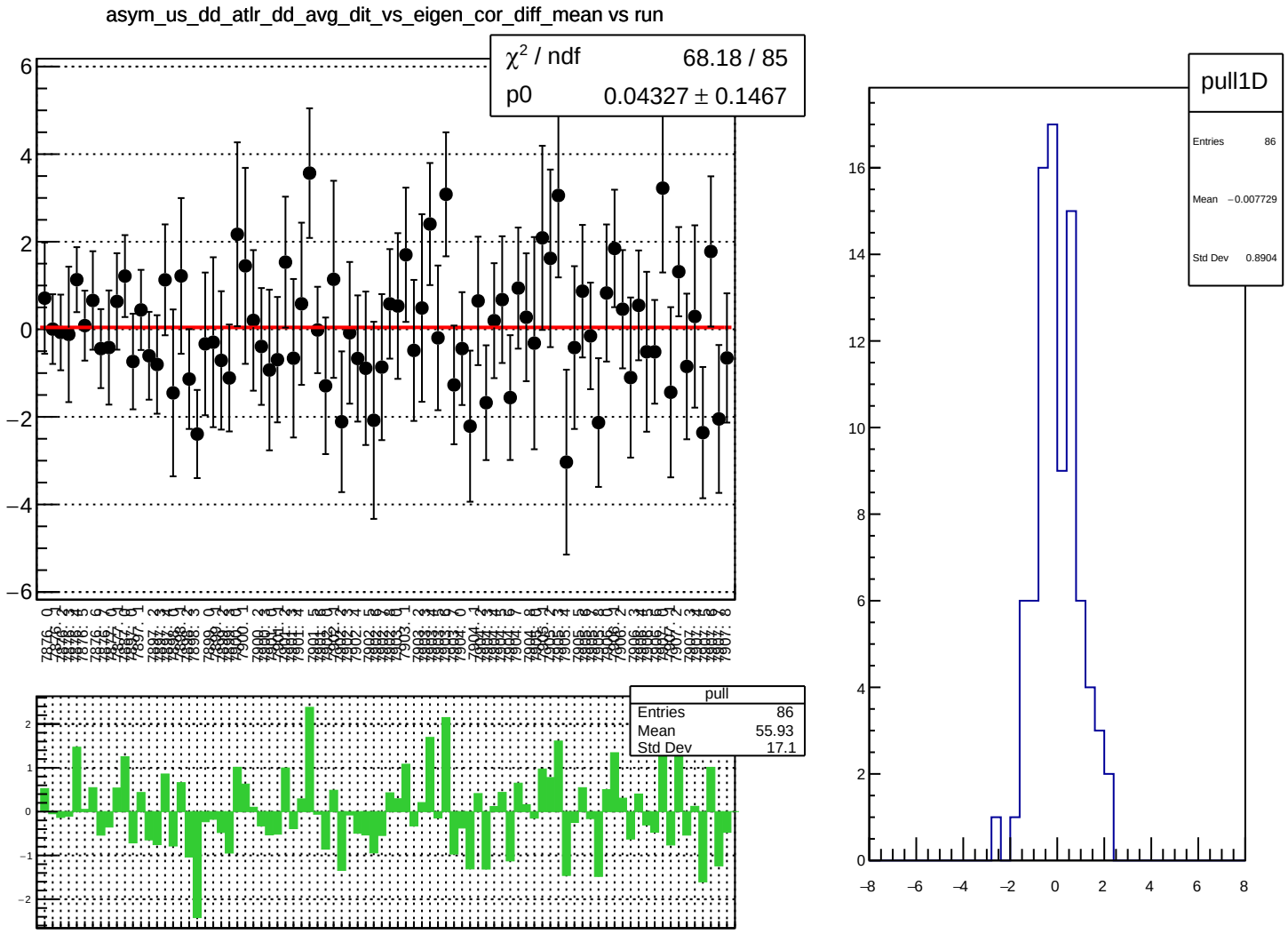

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.94 / 85
p0 −1.873e−12 ± 7.138e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 86
Mean −167.7
Std Dev 0
2
1
0
−1
−2

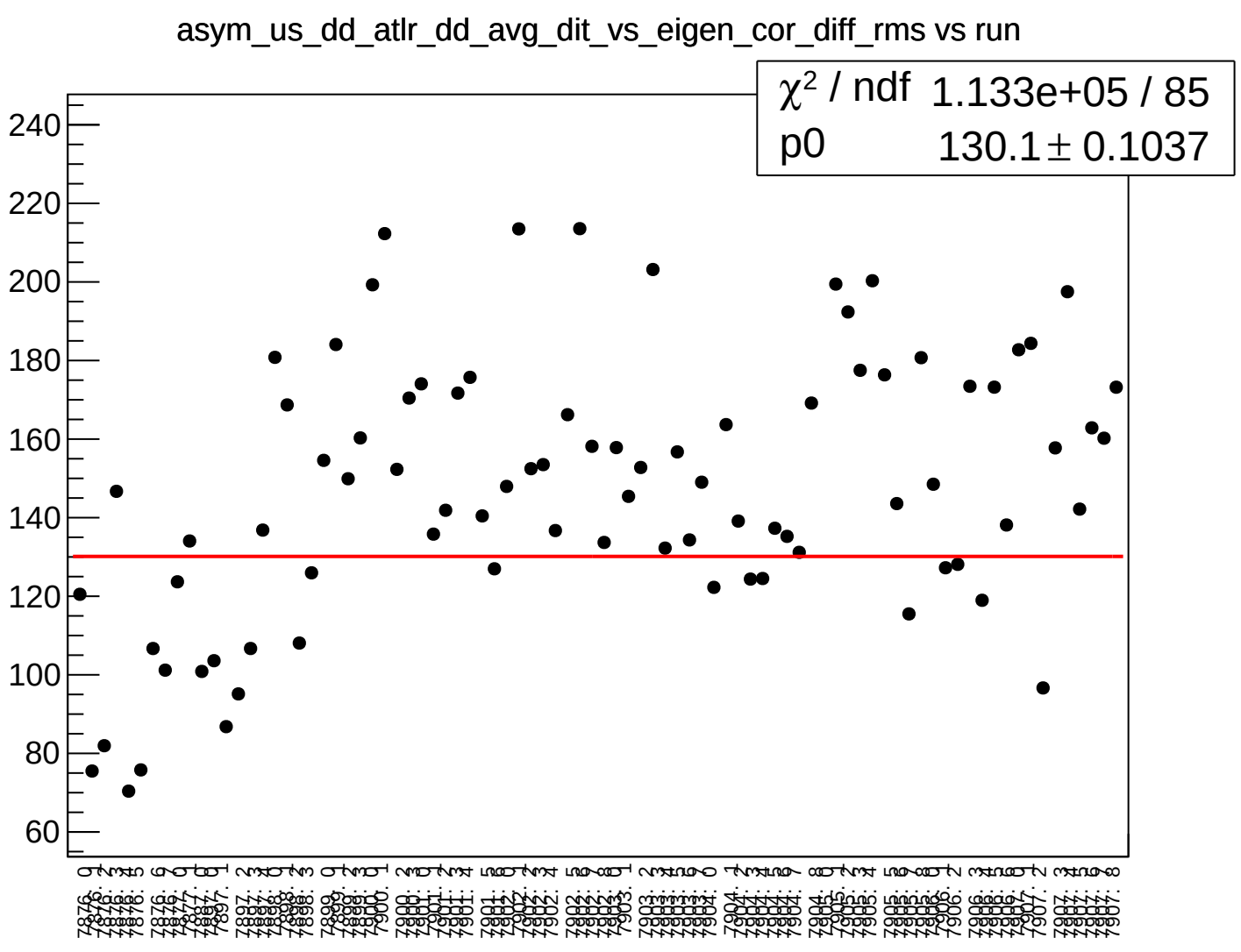

pull1D
Entries 86
Mean −0.02109
Std Dev 0.9015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

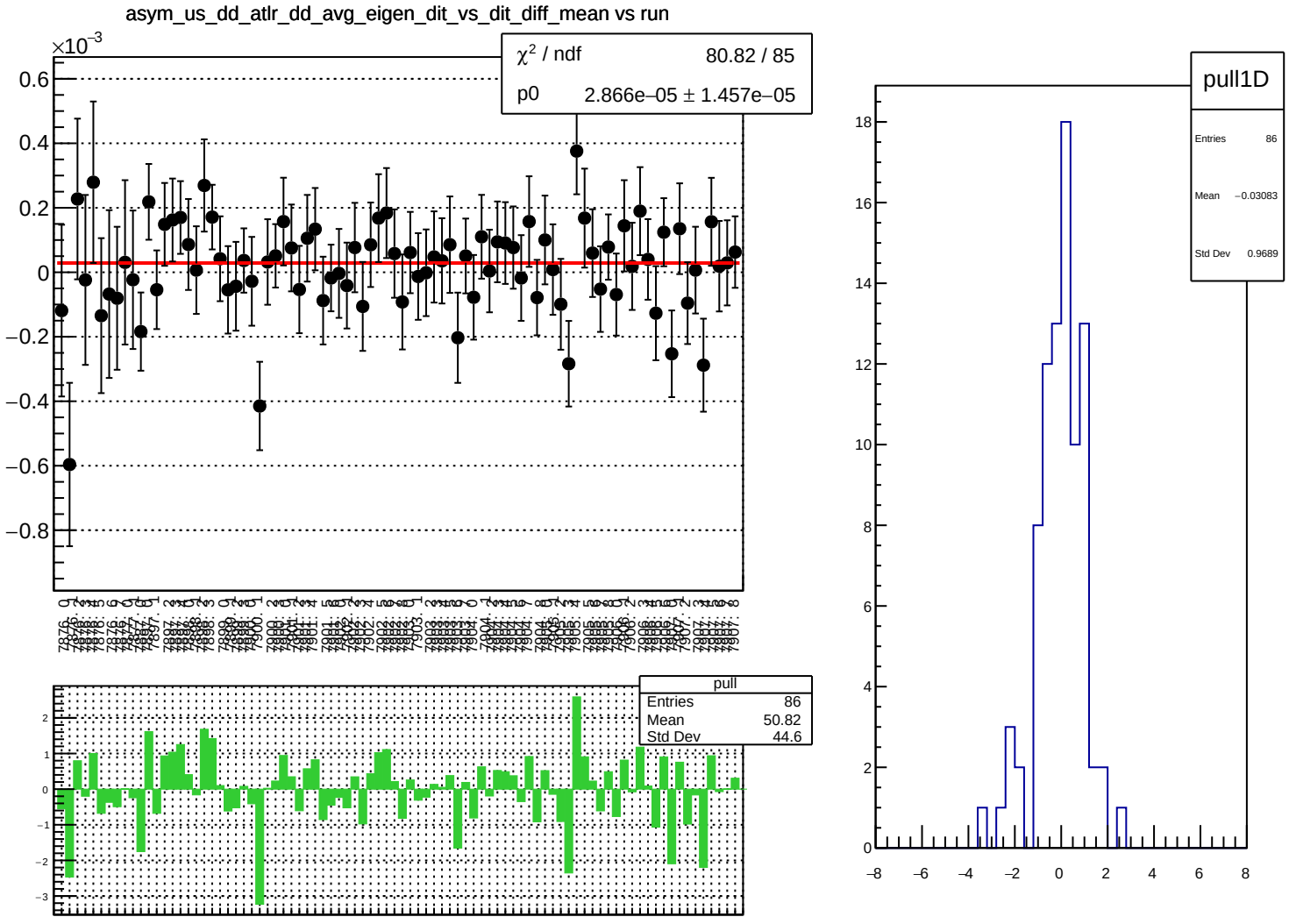

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.45e+05 / 85
p0 4.35e−10 ± 5.048e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

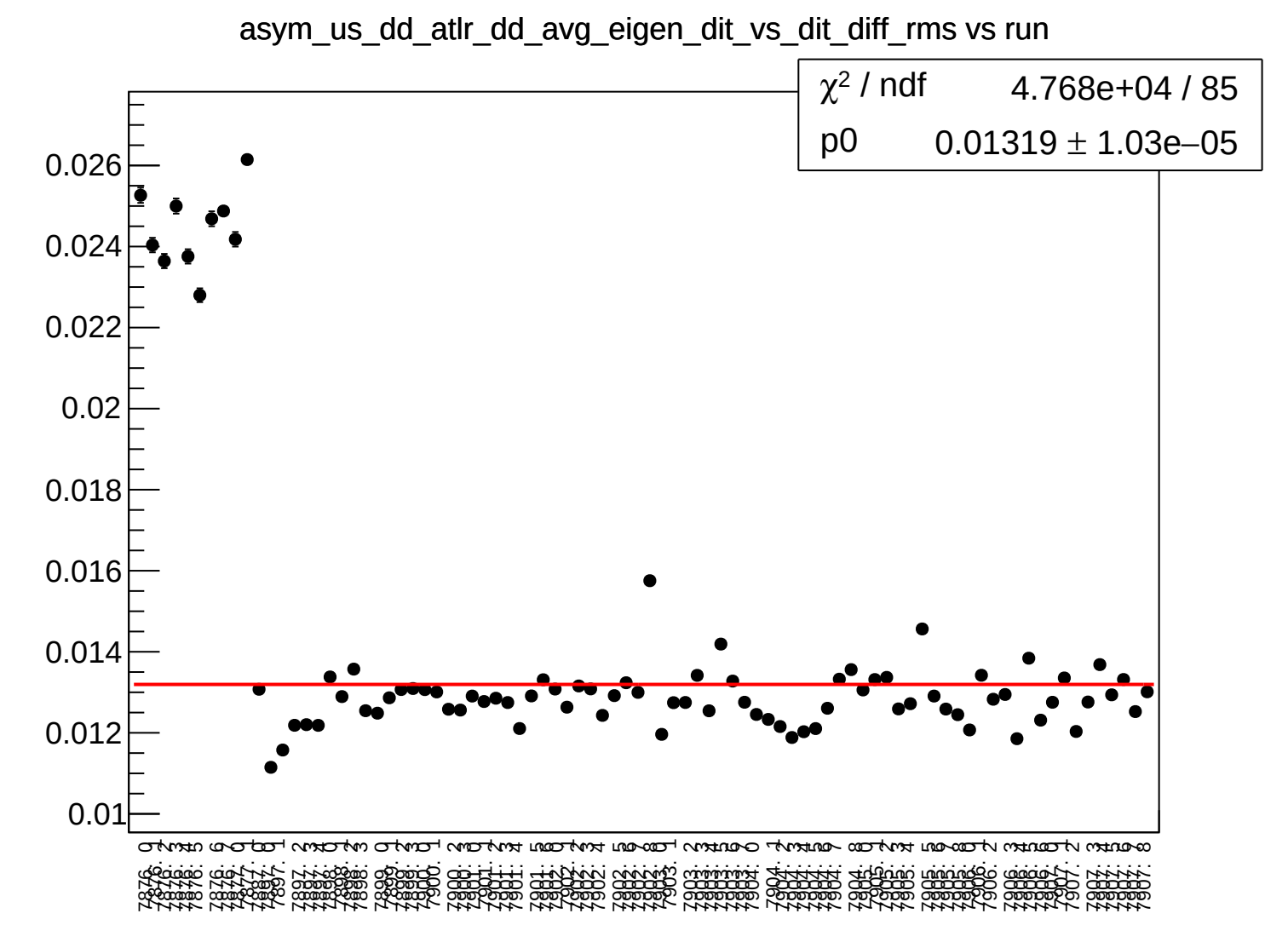

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.18 / 85
p0 0.04327 ± 0.1467
pull
Entries 86
Mean 55.93
Std Dev 17.1
pull1D
Entries 86
Mean −0.007729
Std Dev 0.8904

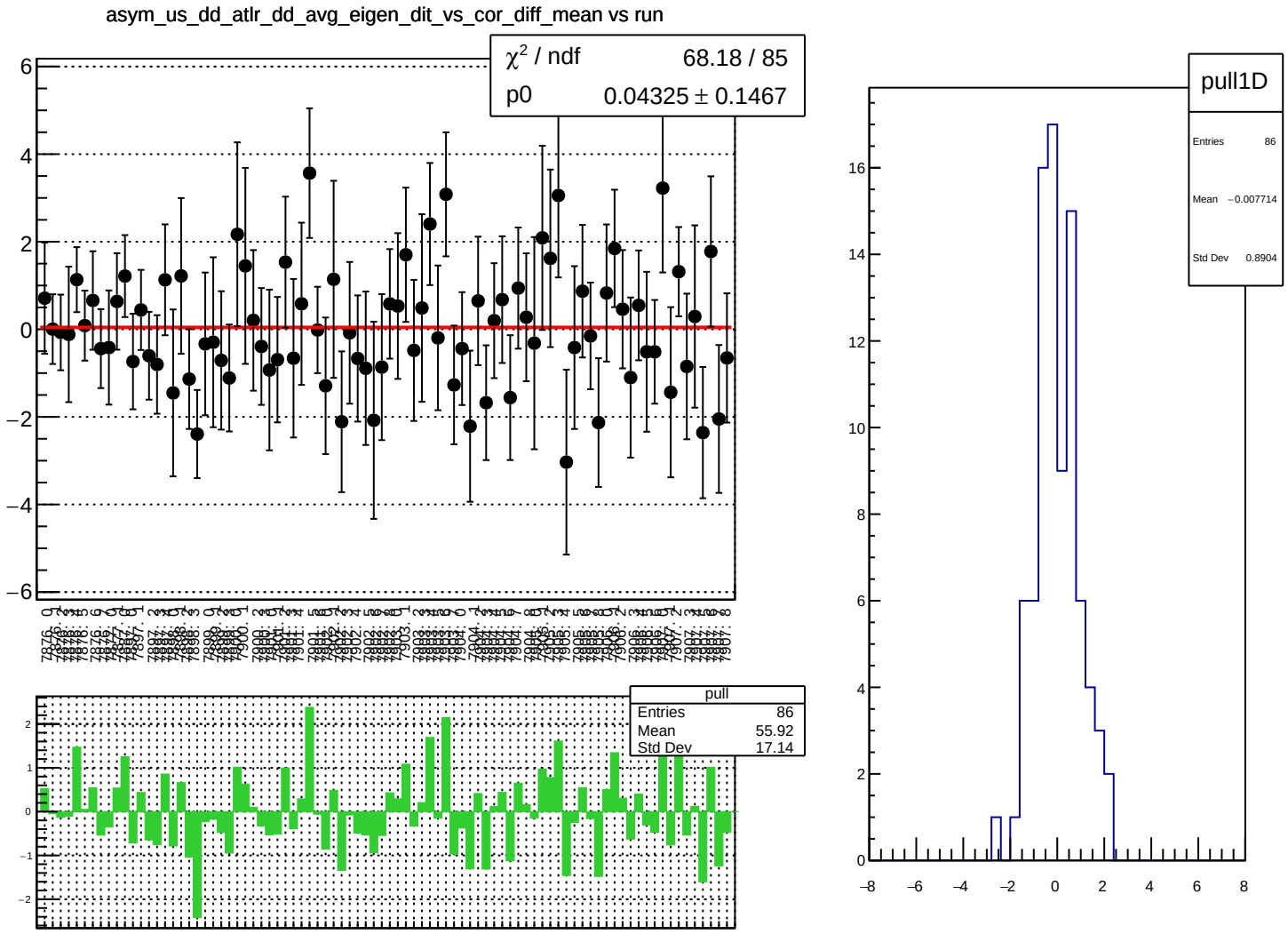

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.133e+05 / 85
p0 130.1 ± 0.1037
240
220
200
180
160
140
120
100
80
60

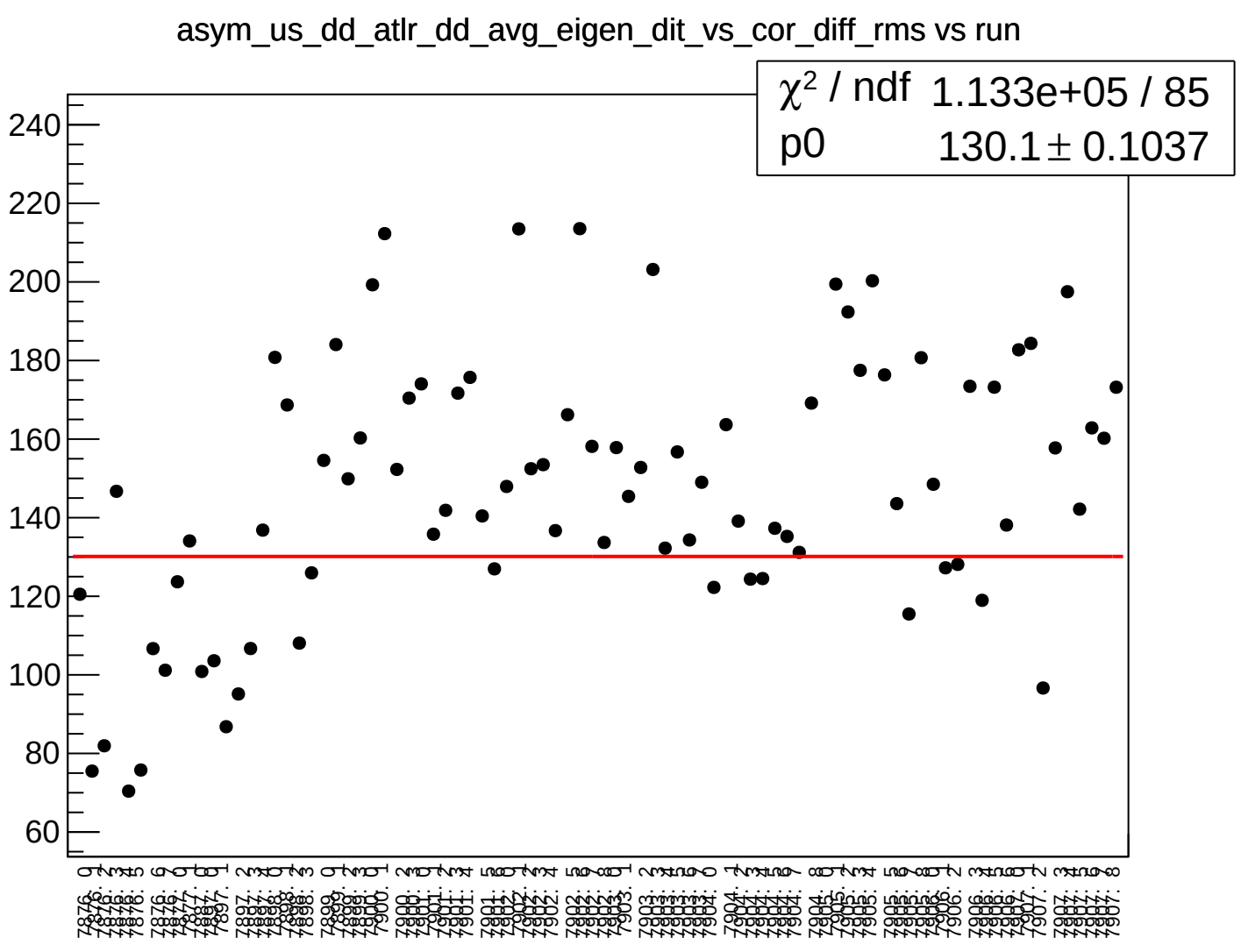

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.18 / 85
p0 0.04327 ± 0.1467
pull
Entries 86
Mean 55.93
Std Dev 17.1
pull1D
Entries 86
Mean −0.007729
Std Dev 0.8904

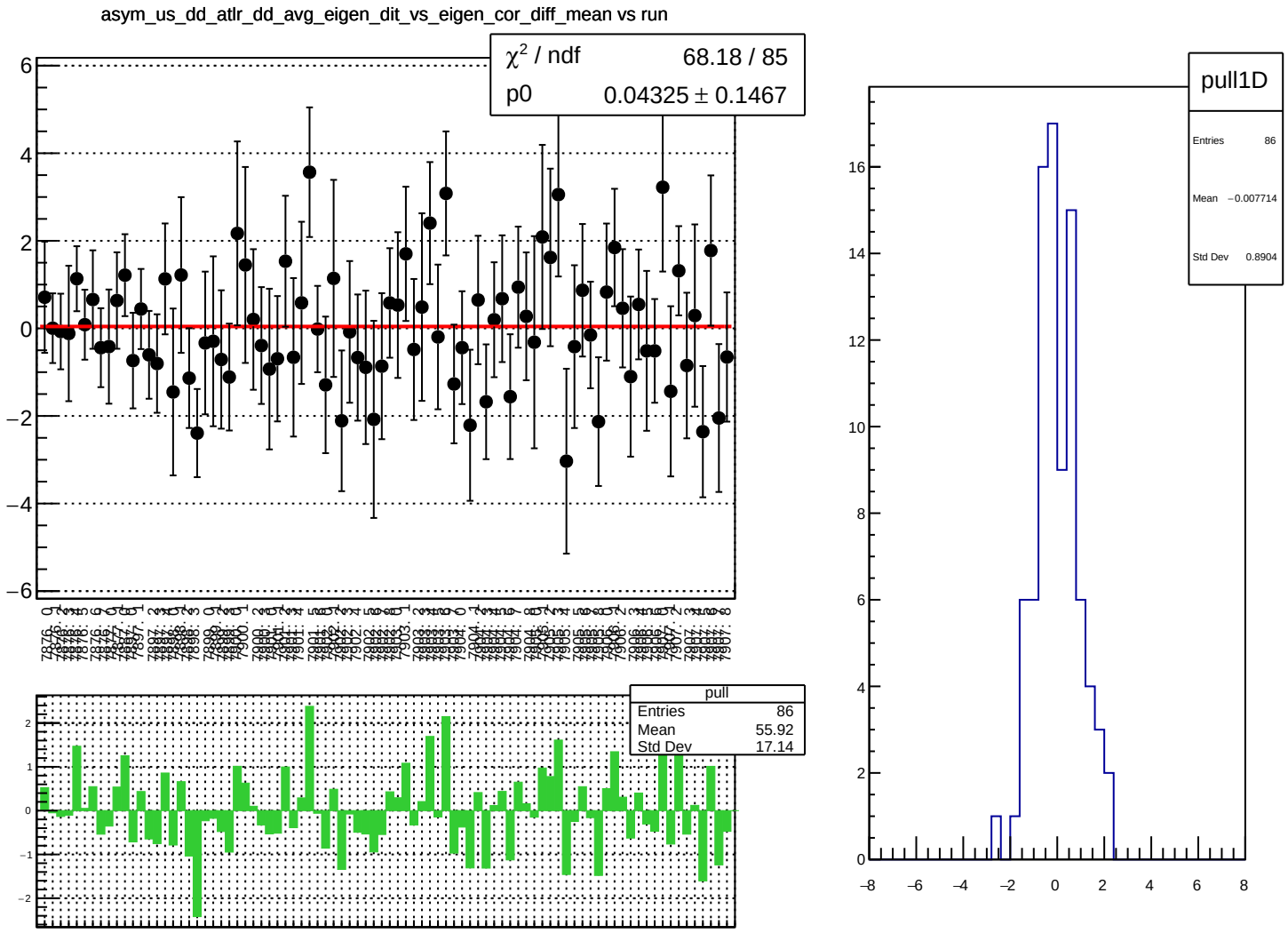

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.133e+05 / 85
p0 130.1 ± 0.1037
240
220
200
180
160
140
120
100
80
60

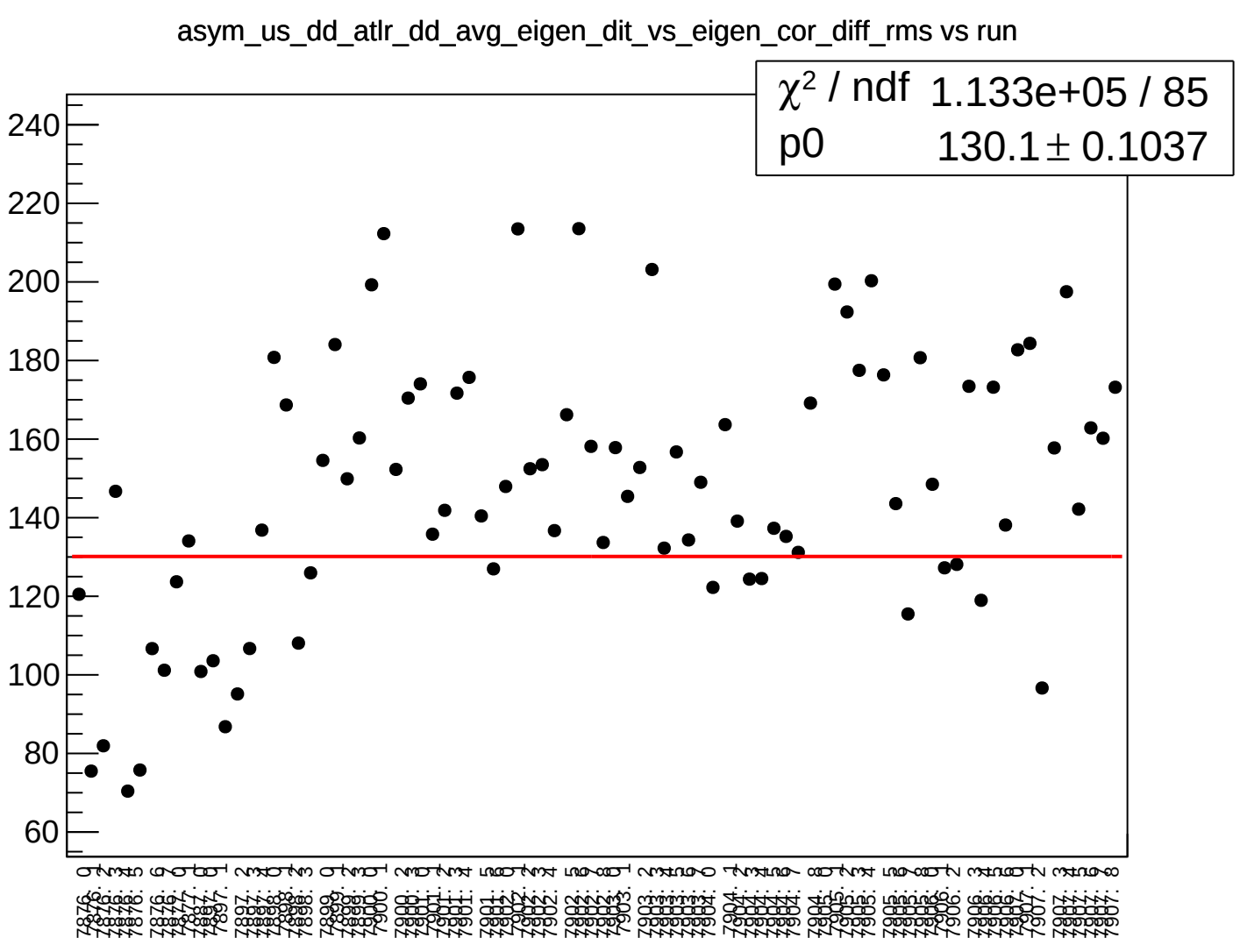

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.82 / 85
p0 2.866e−05 ± 1.457e−05
pull
Entries 86
Mean 50.82
Std Dev 44.6
pull1D
Entries 86
Mean −0.03083
Std Dev 0.9689

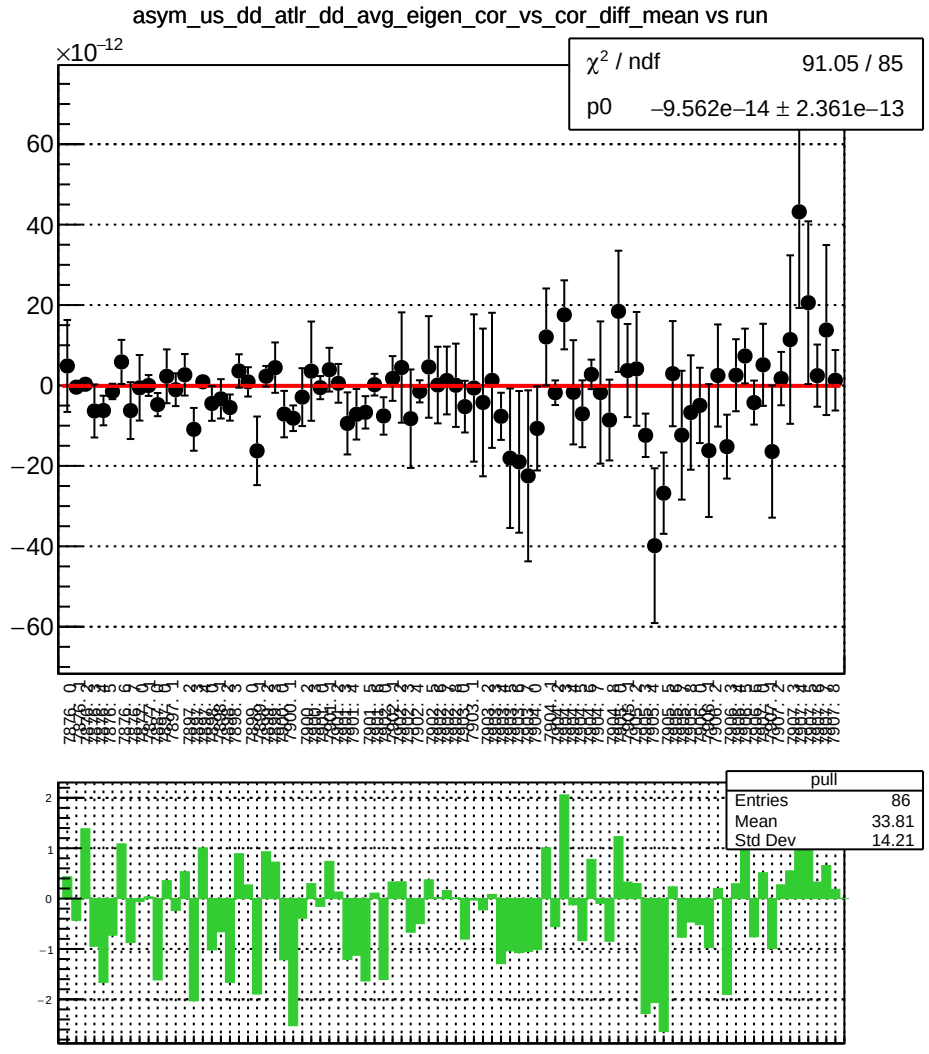

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.768e+04 / 85
p0 0.01319 ± 1.03e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

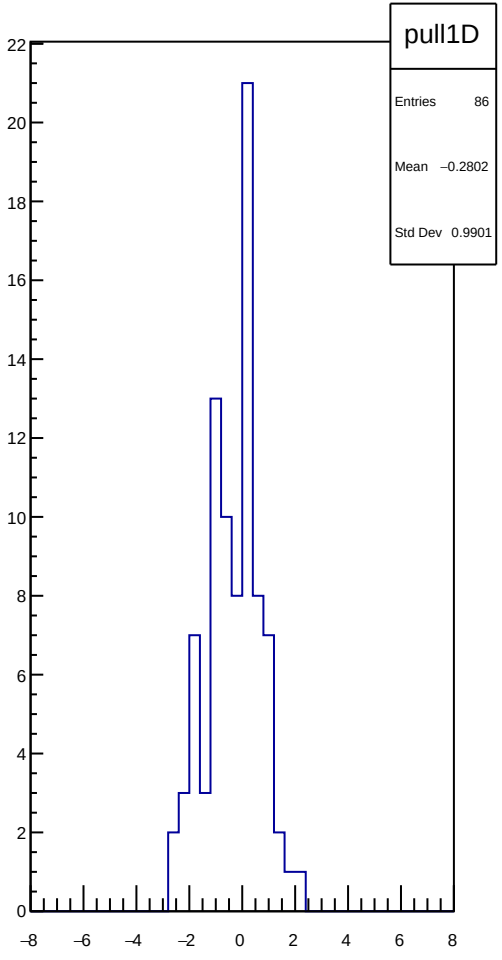

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.18 / 85
p0 0.04325 ± 0.1467
pull
Entries 86
Mean 55.92
Std Dev 17.14
pull1D
Entries 86
Mean −0.007714
Std Dev 0.8904

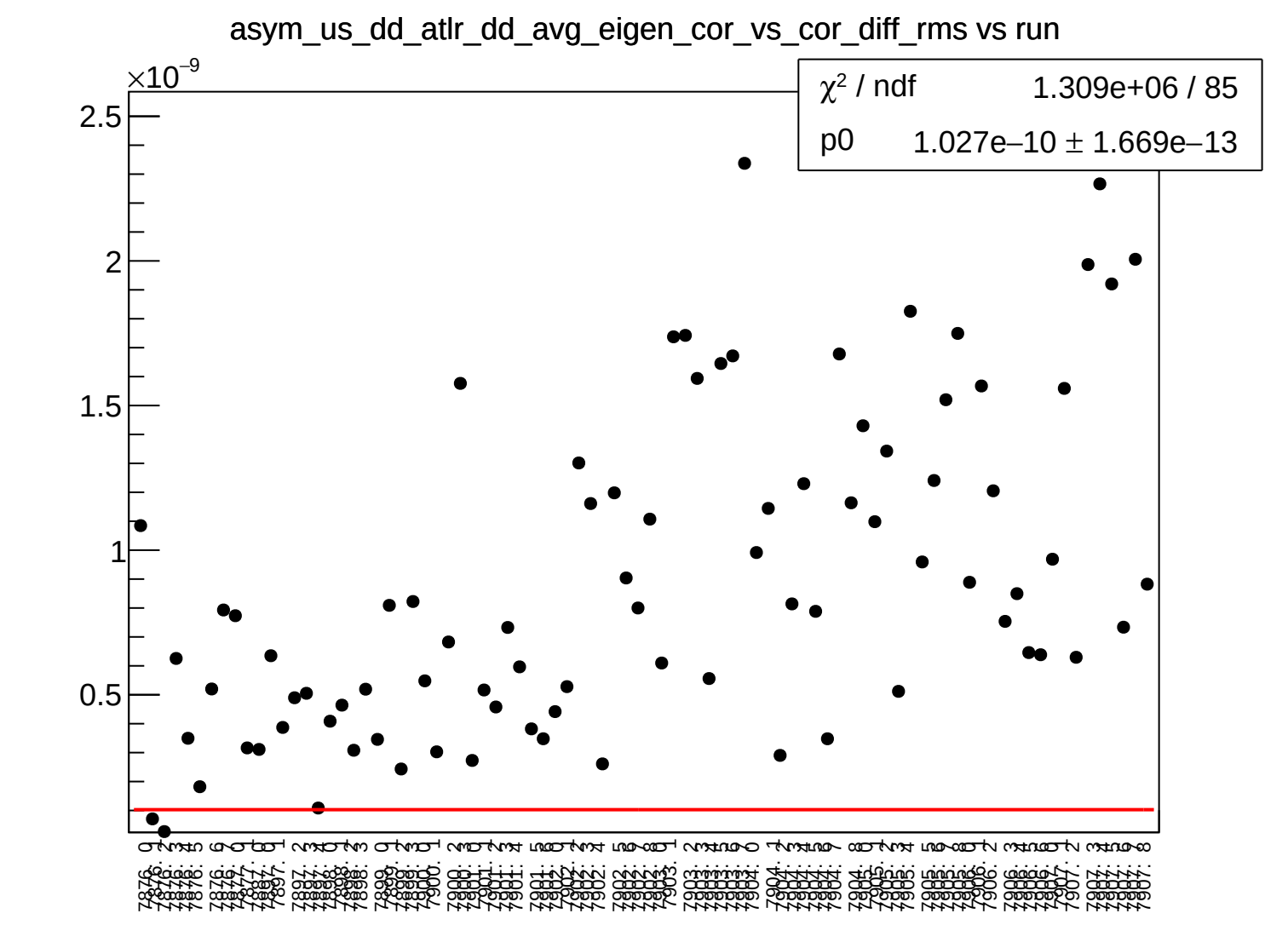

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.133e+05 / 85
p0 130.1 ± 0.1037
240
220
200
180
160
140
120
100
80
60

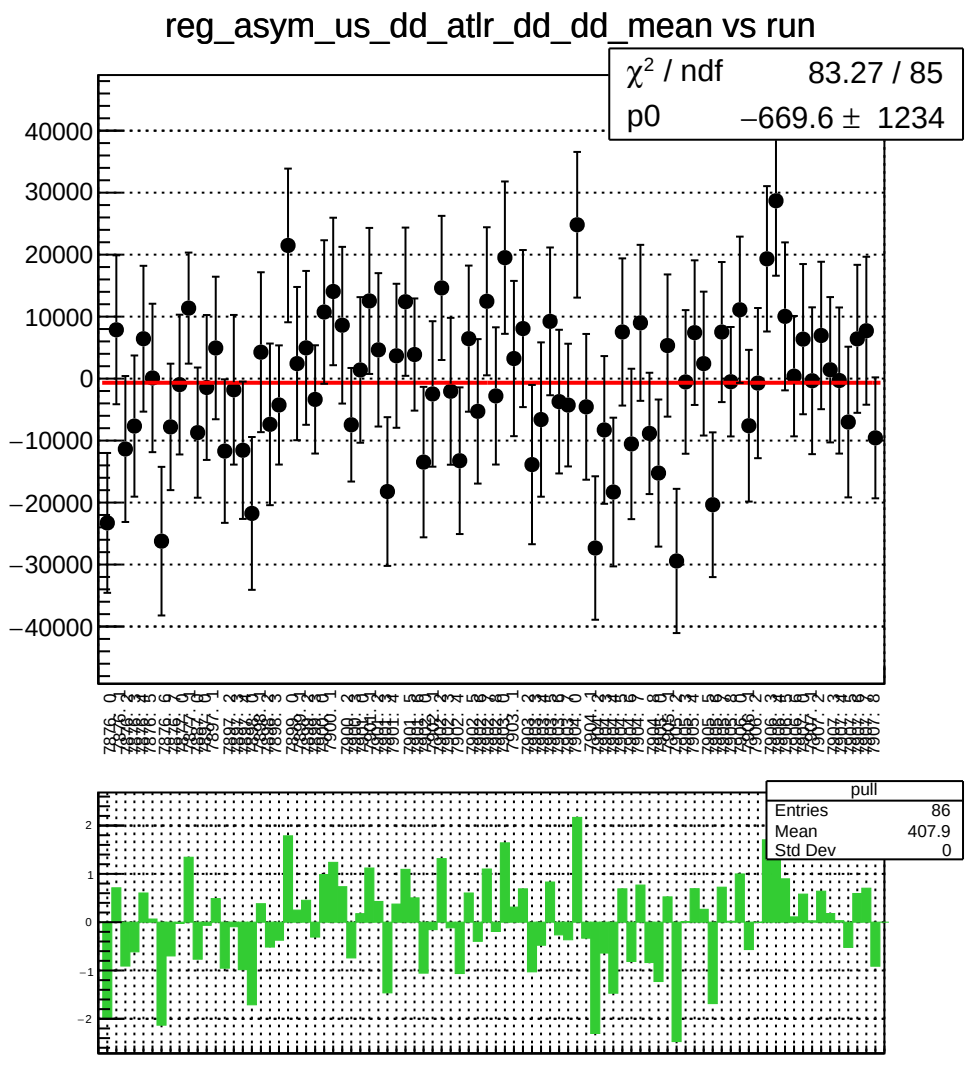

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.18 / 85
p0 0.04325 ± 0.1467
pull
Entries 86
Mean 55.92
Std Dev 17.14
pull1D
Entries 86
Mean −0.007714
Std Dev 0.8904

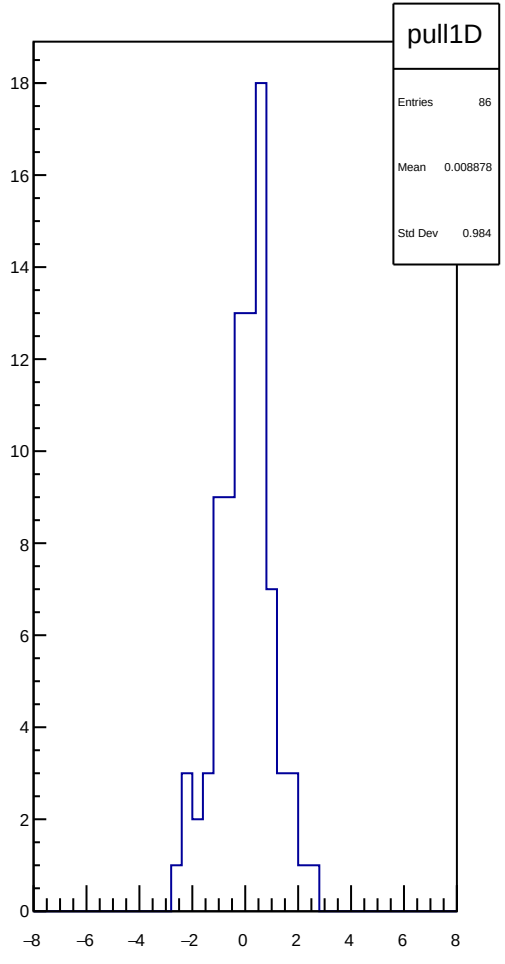

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.133e+05 / 85
p0 130.1 ± 0.1037
240
220
200
180
160
140
120
100
80
60

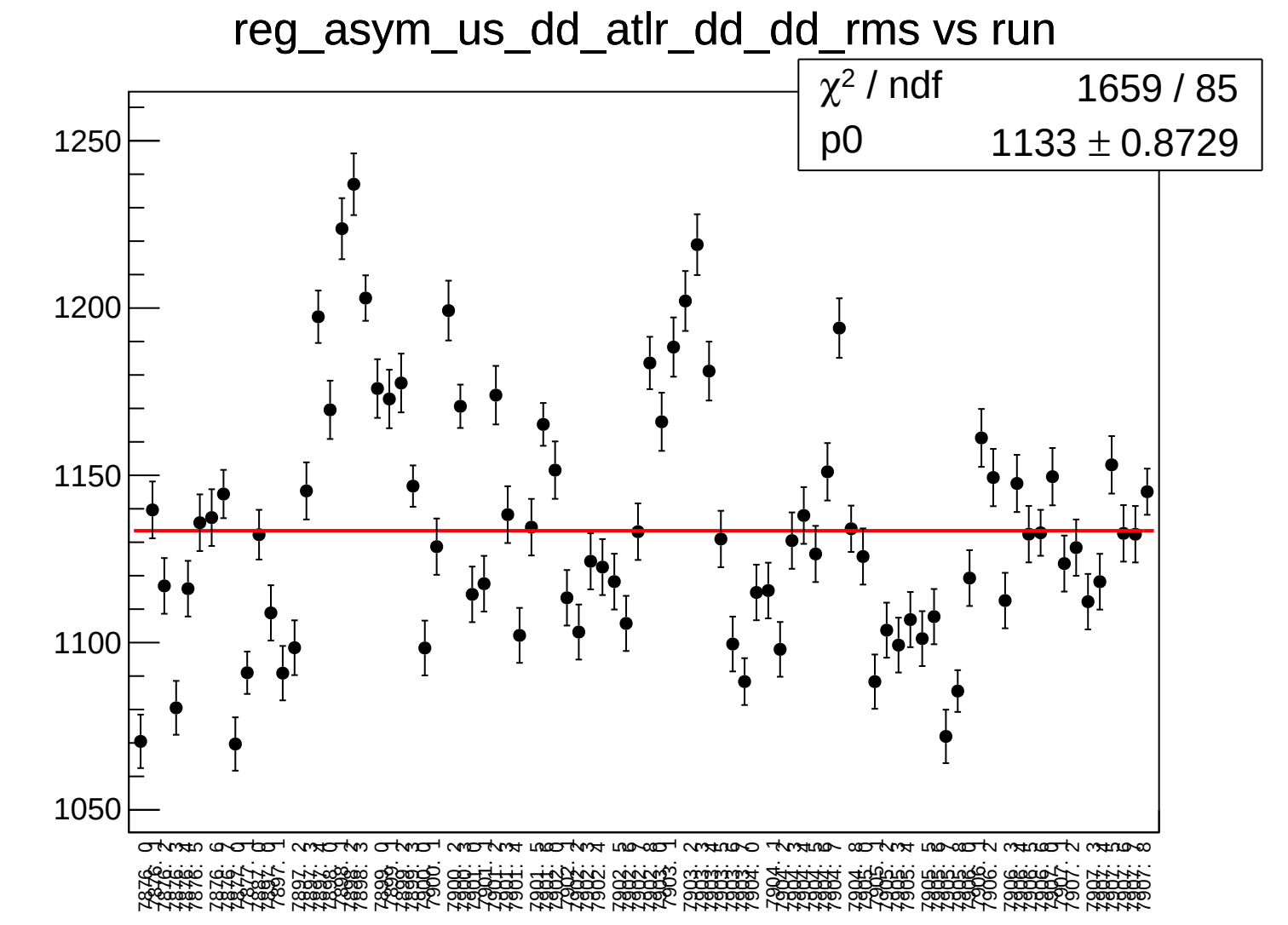

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.05 / 85
p0 −9.562e−14 ± 2.361e−13
pull
Entries 86
Mean 33.81
Std Dev 14.21

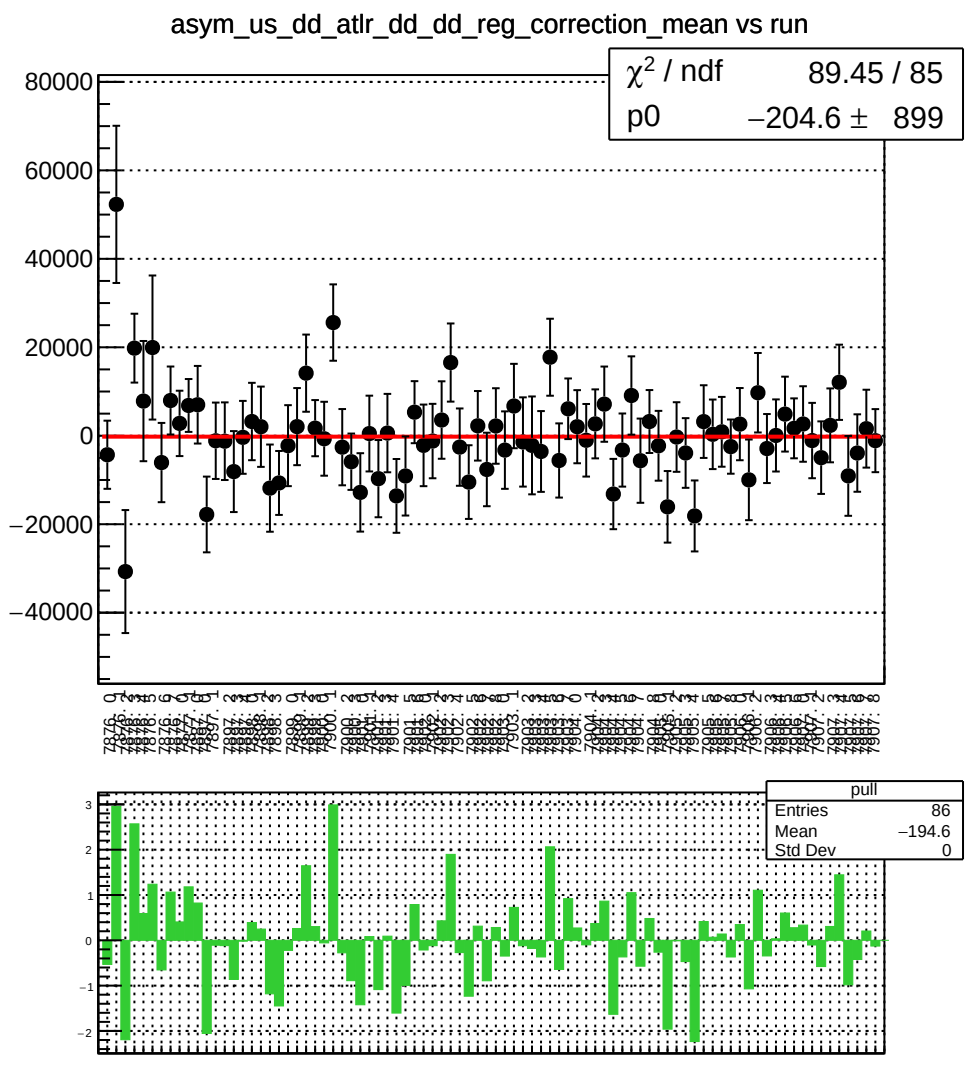

pull1D
Entries 86
Mean −0.2802
Std Dev 0.9901

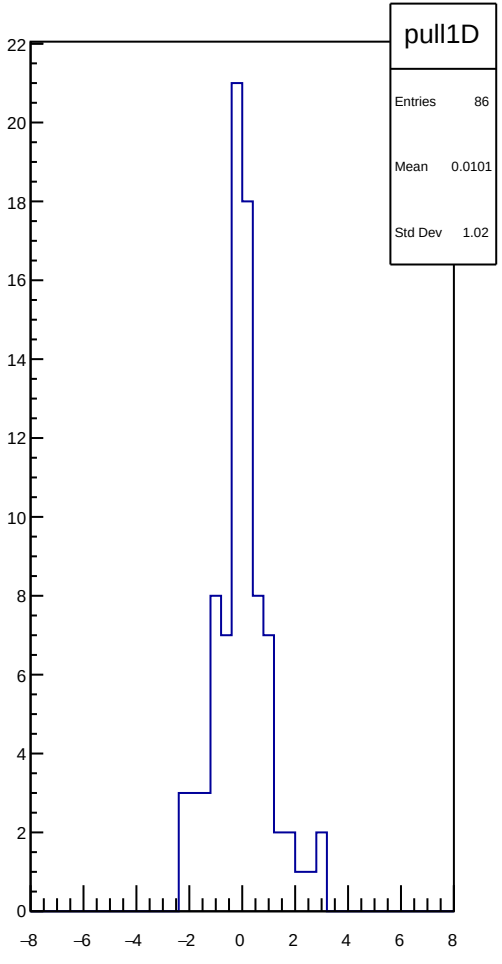

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 1.309e+06 / 85
p0 1.027e−10 ± 1.669e−13

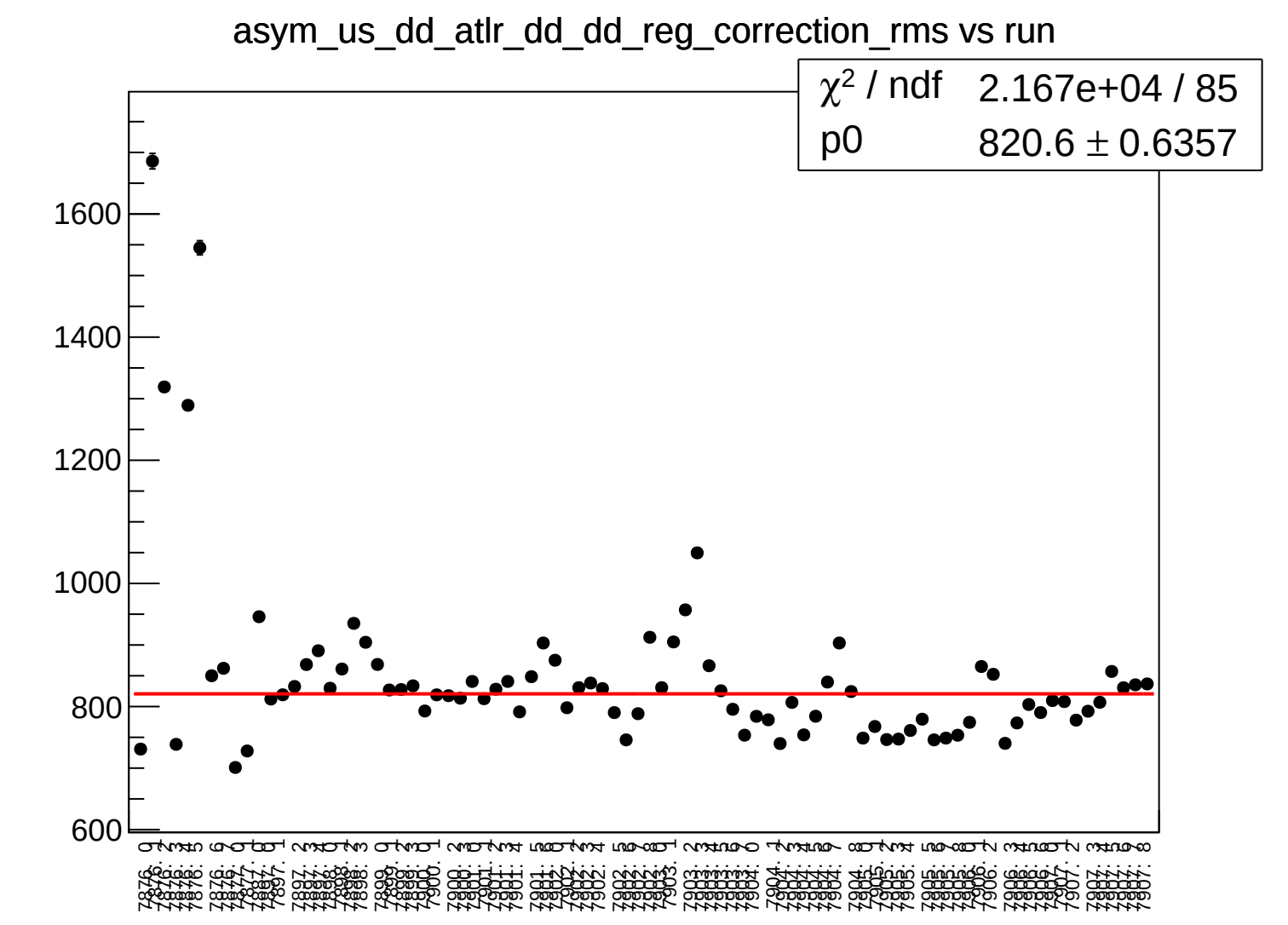

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.27 / 85
p0 −669.6 ± 1234
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 407.9
Std Dev 0
2
1
0
−1
−2

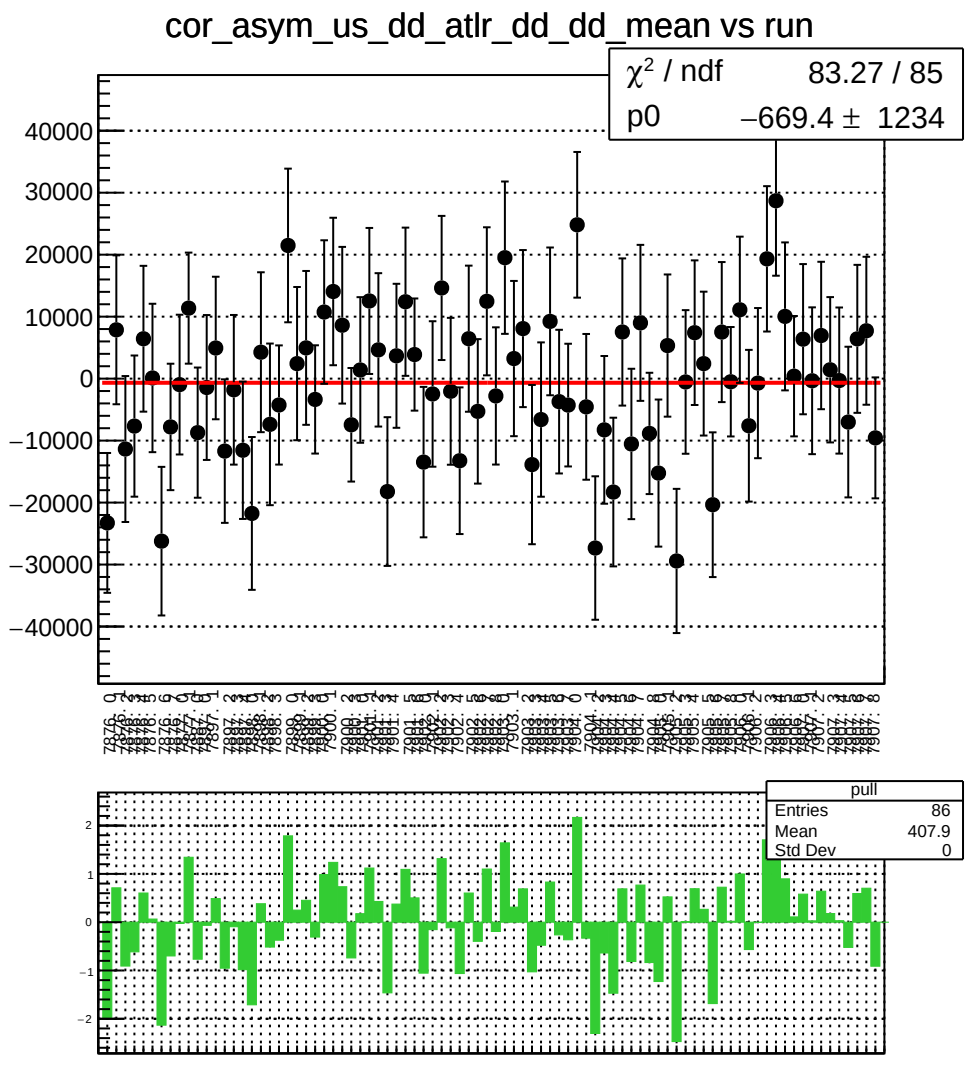

pull1D
Entries 86
Mean 0.008878
Std Dev 0.984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

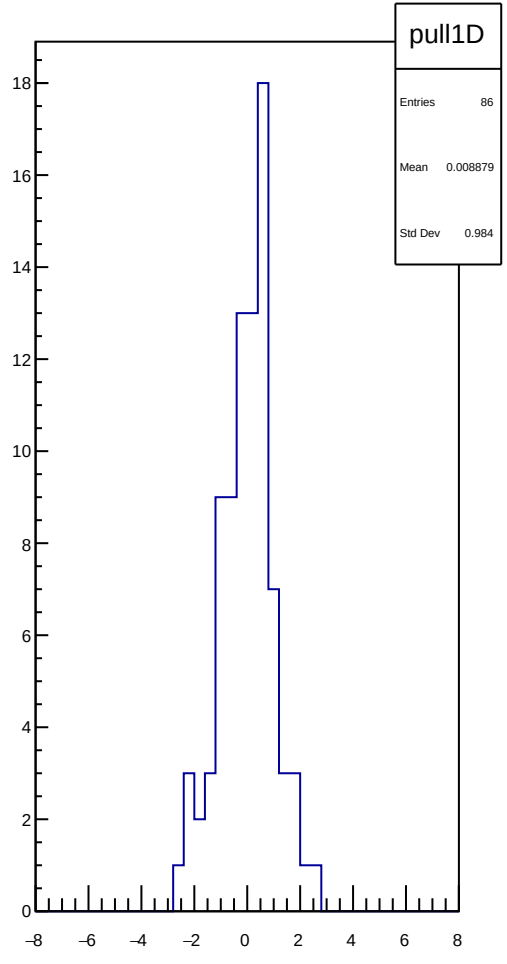

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1659 / 85
p0 1133 ± 0.8729
1250
1200
1150
1100
1050

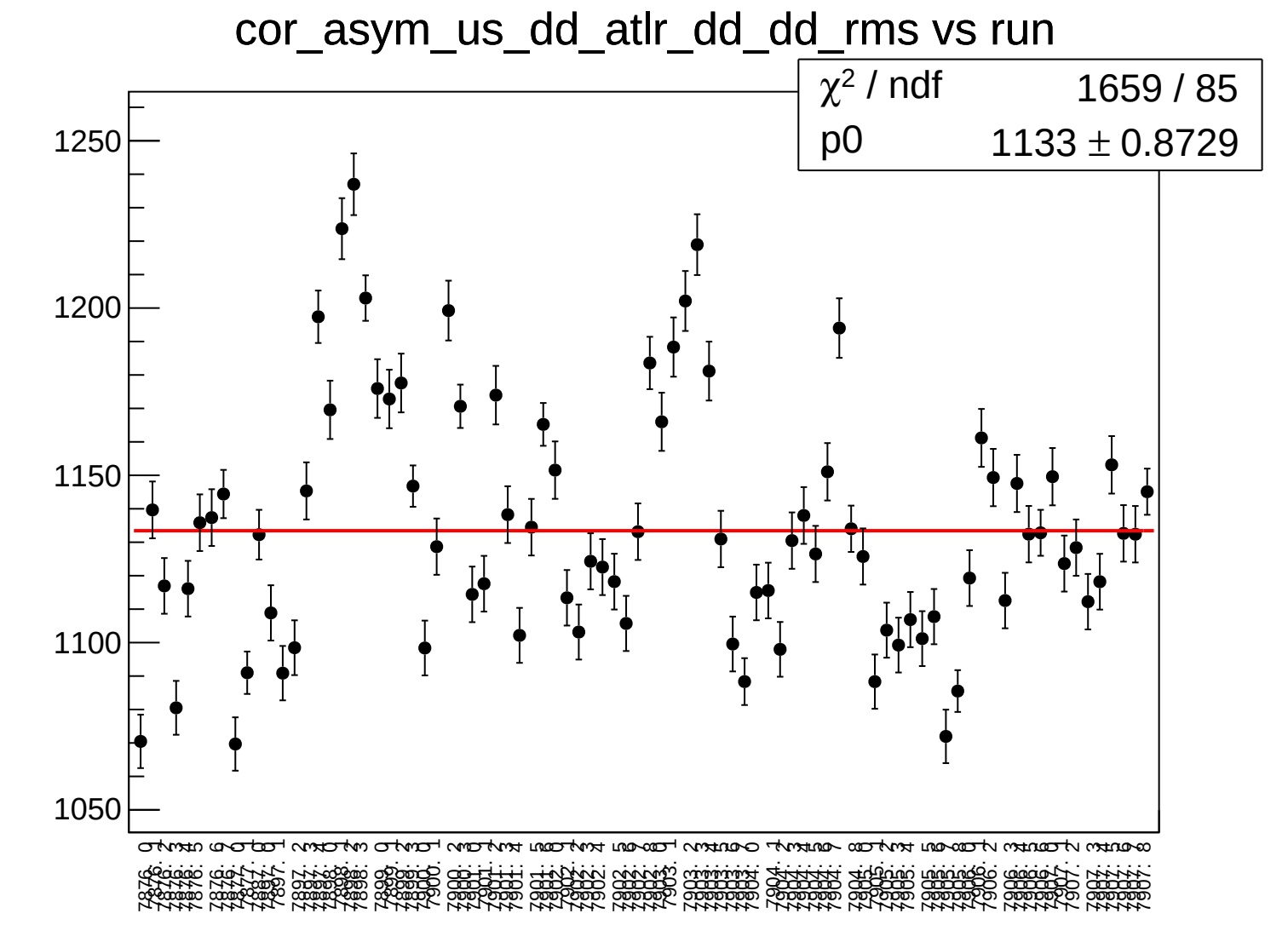

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 89.45 / 85
p0 −204.6 ± 899
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −194.6
Std Dev 0
3
2
1
0
−1
−2

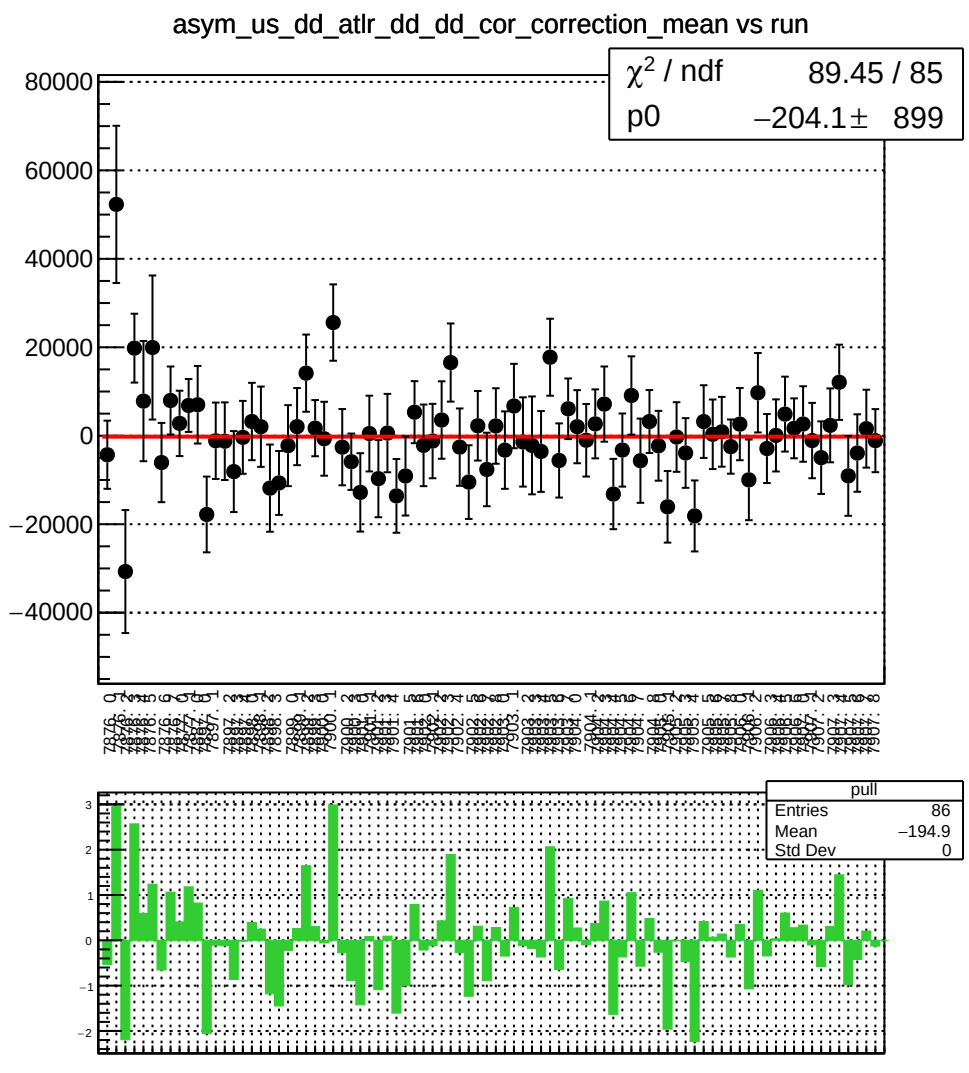

pull1D
Entries 86
Mean 0.0101
Std Dev 1.02
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

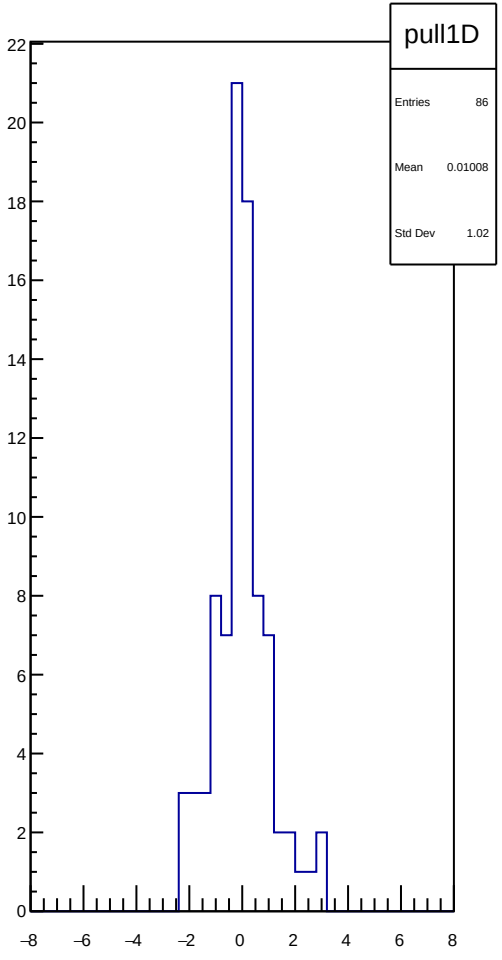

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.167e+04 / 85
p0 820.6 ± 0.6357
1600
1400
1200
1000
800
600

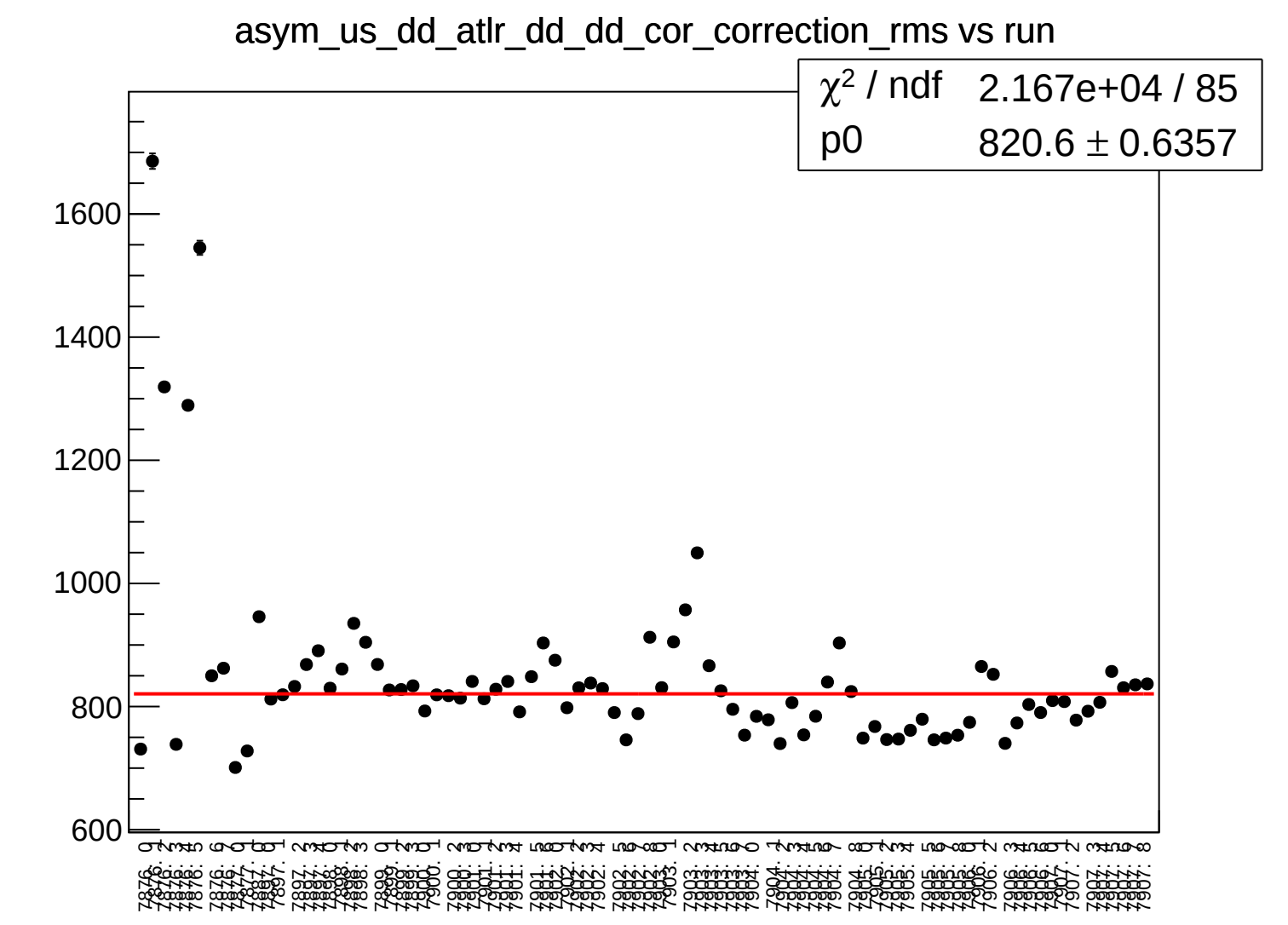

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.27 / 85
p0 −669.4 ± 1234
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 407.9
Std Dev 0
2
1
0
−1
−2

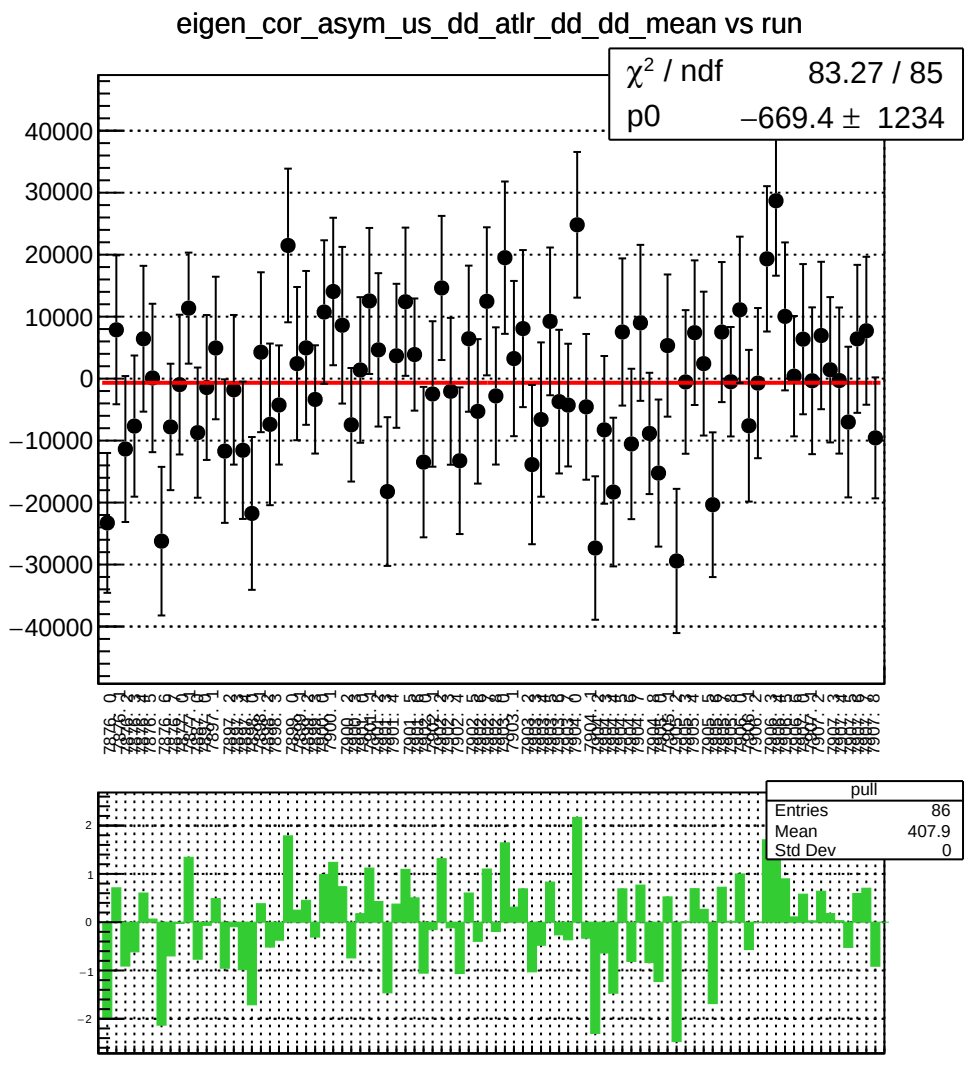

pull1D
Entries 86
Mean 0.008879
Std Dev 0.984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

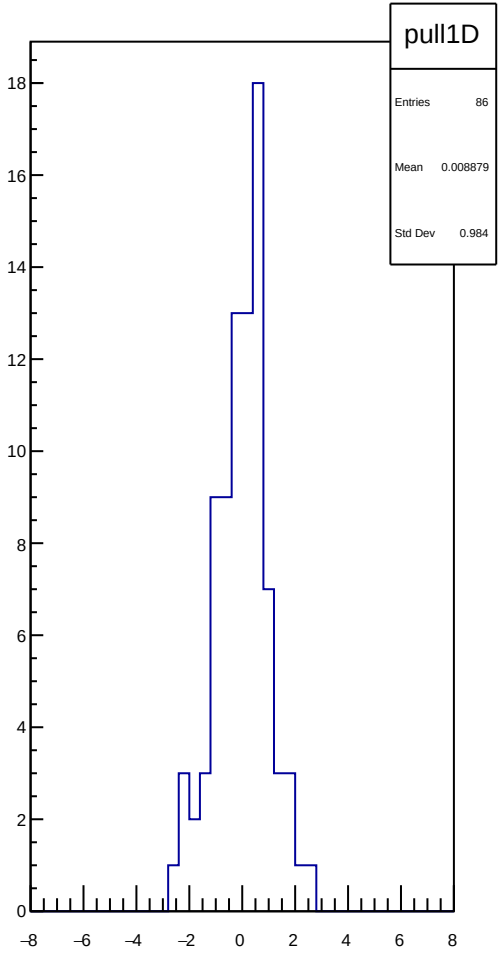

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1659 / 85
p0 1133 ± 0.8729
1250
1200
1150
1100
1050

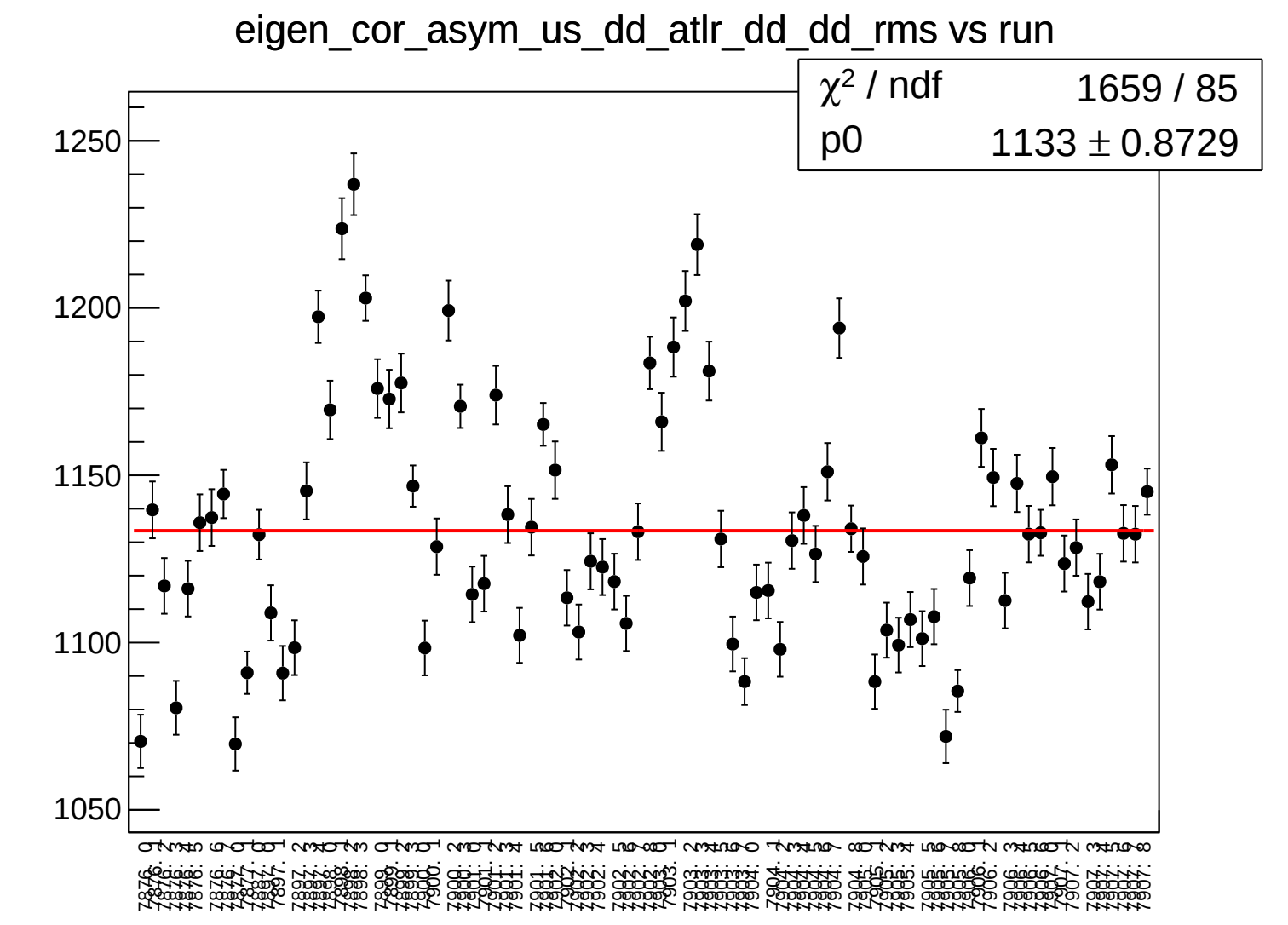

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 89.45 / 85
p0 −204.1± 899
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −194.9
Std Dev 0
3
2
1
0
−1
−2

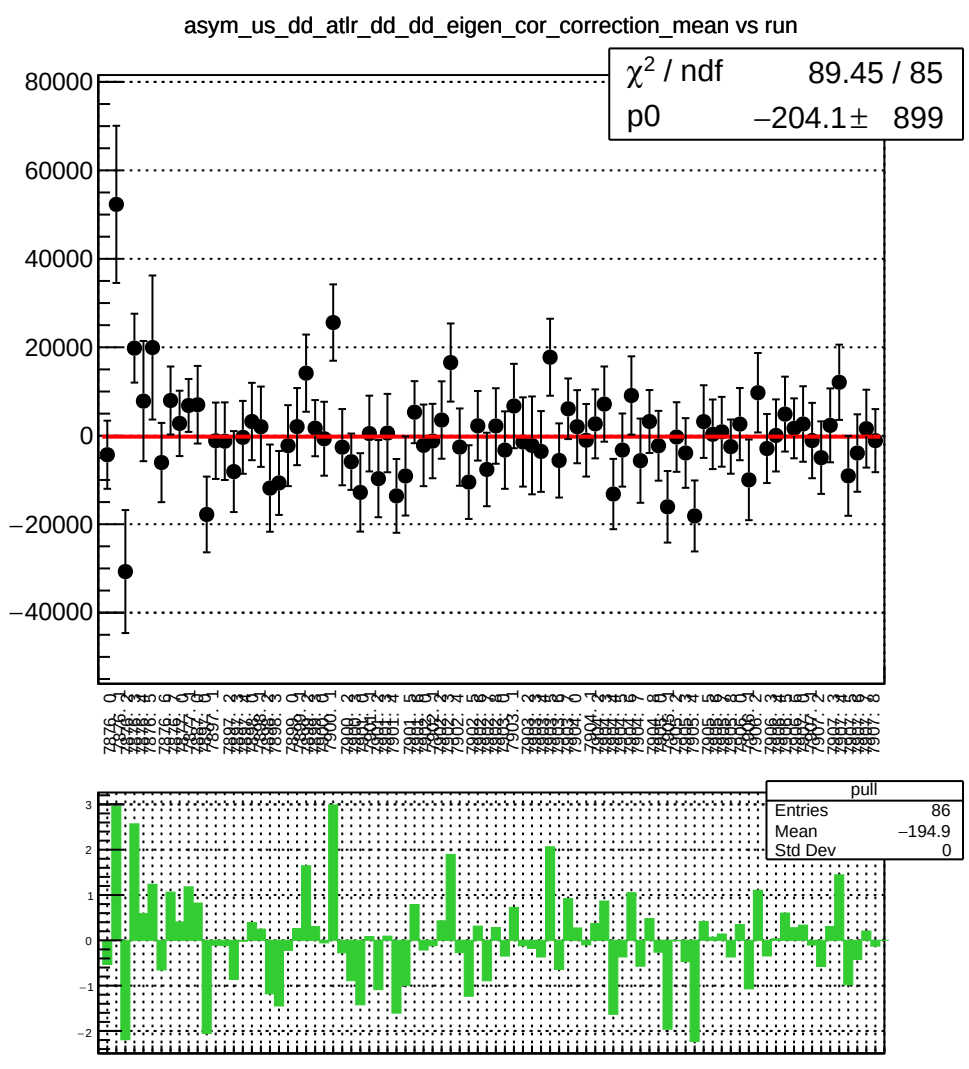

pull1D
Entries 86
Mean 0.01008
Std Dev 1.02
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

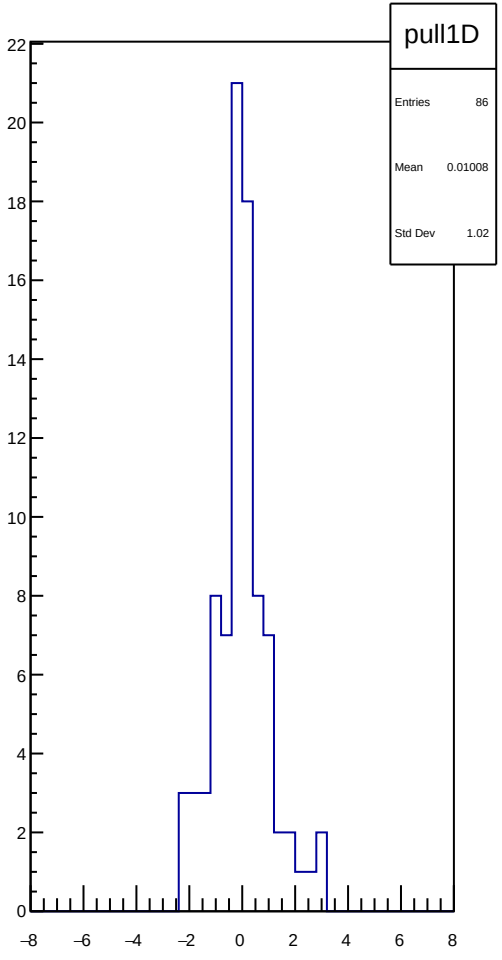

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.167e+04 / 85
p0 820.6 ± 0.6357
1600
1400
1200
1000
800
600

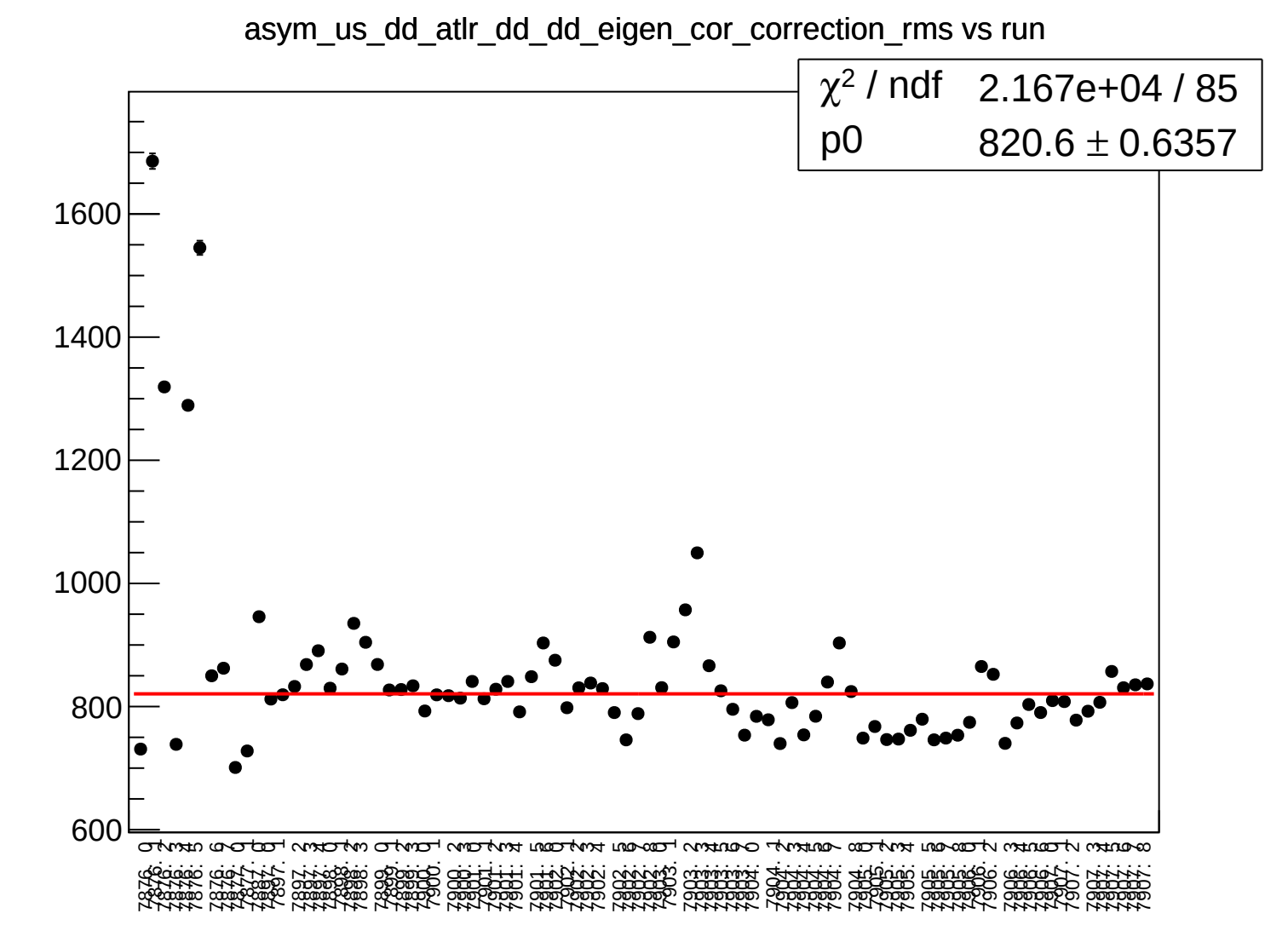

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.27 / 85
p0 −669.4 ± 1234
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 407.9
Std Dev 0
2
1
0
−1
−2

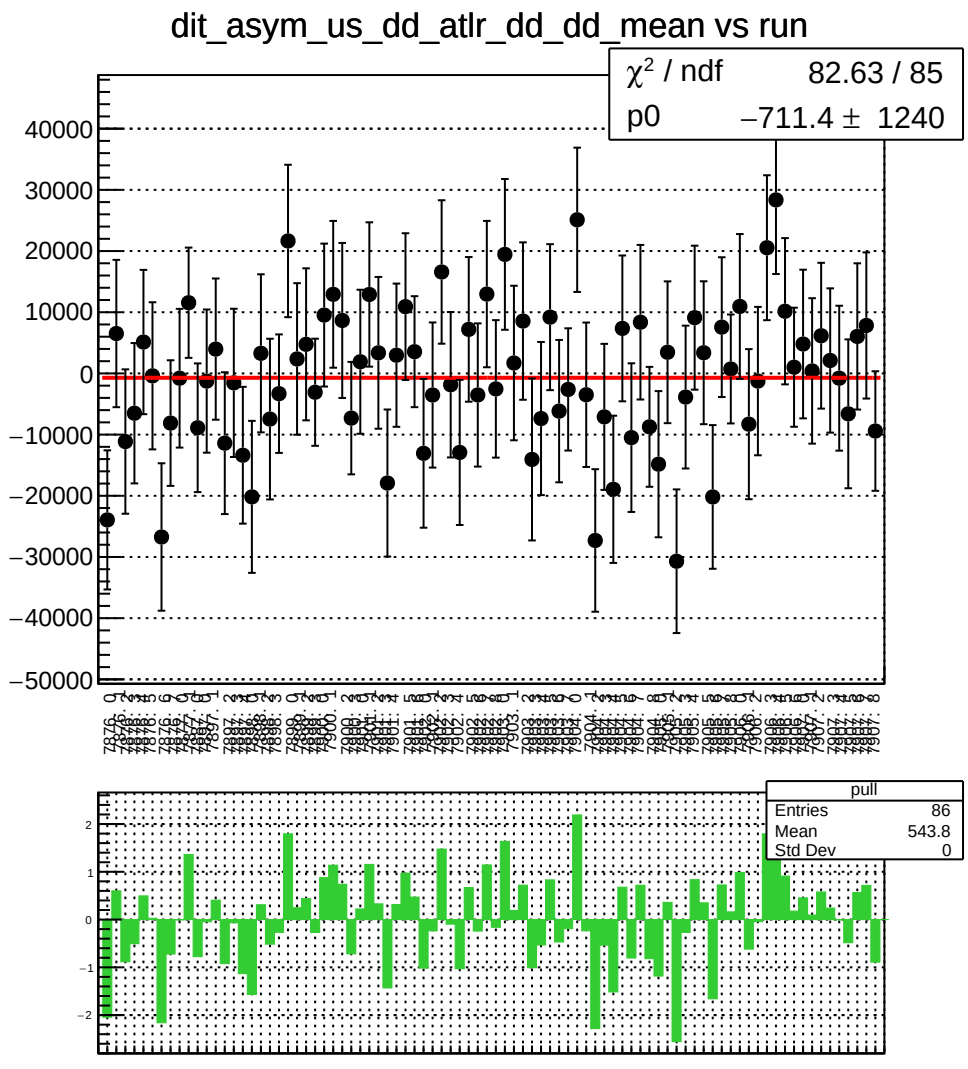

pull1D
Entries 86
Mean 0.008879
Std Dev 0.984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

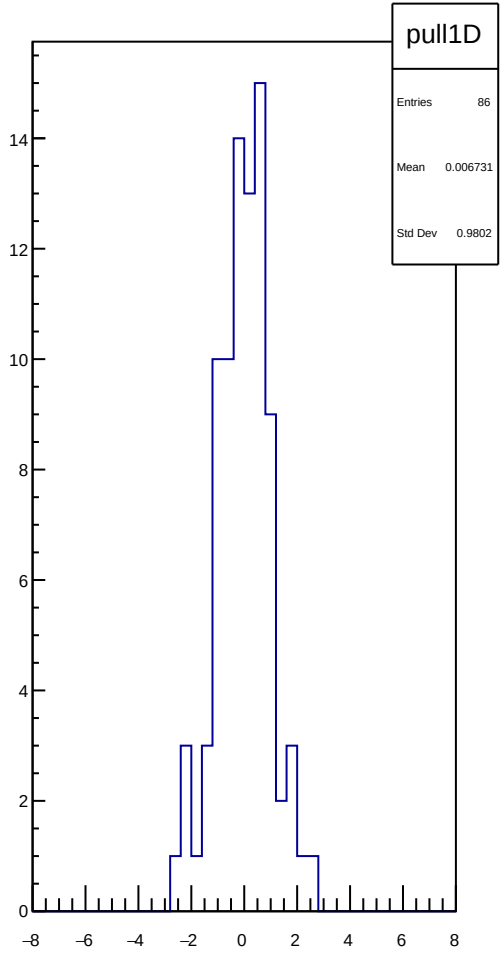

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1659 / 85
p0 1133 ± 0.8729
1250
1200
1150
1100
1050

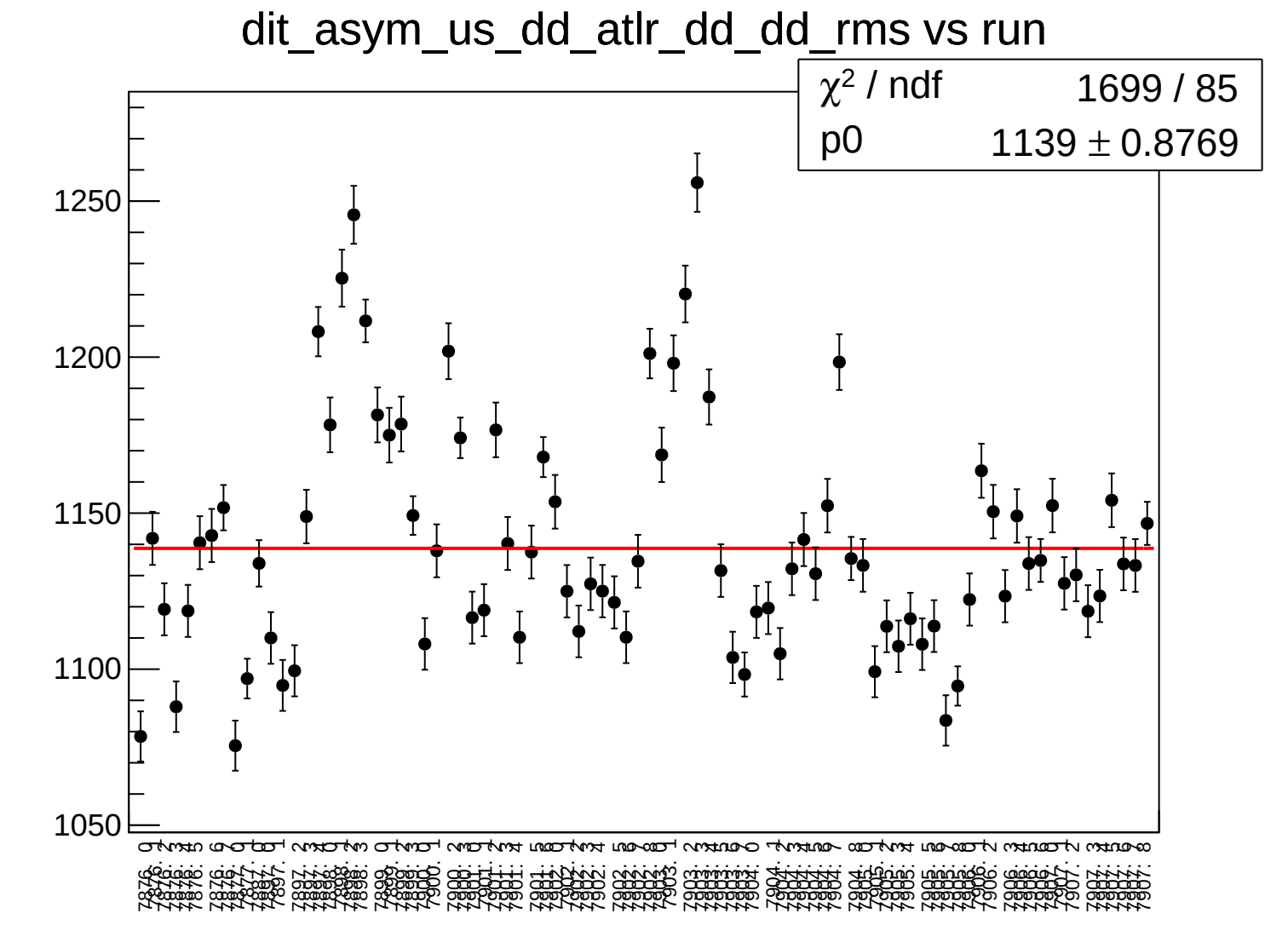

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.45 / 85
p0 −204.1± 899
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −194.9
Std Dev 0
3
2
1
0
−1
−2

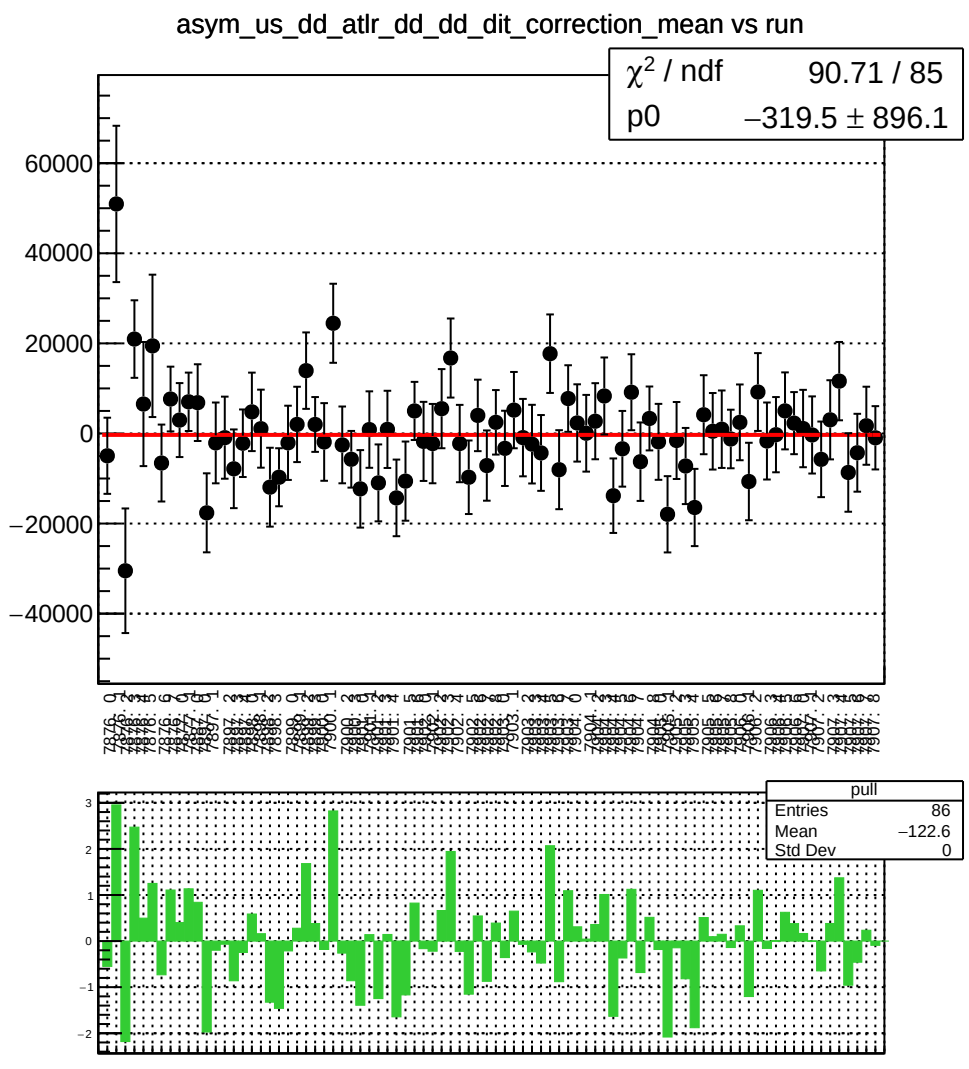

pull1D
Entries 86
Mean 0.01008
Std Dev 1.02
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

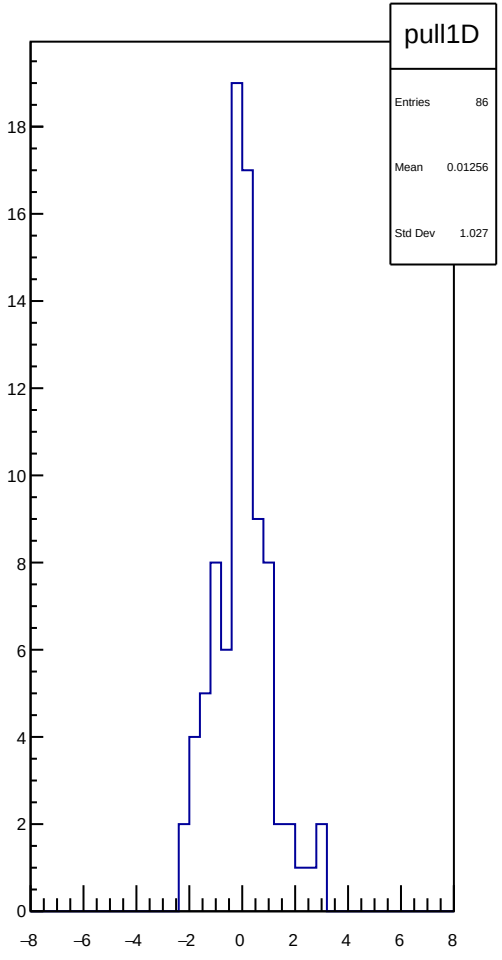

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.167e+04 / 85
p0 820.6 ± 0.6357
1600
1400
1200
1000
800
600

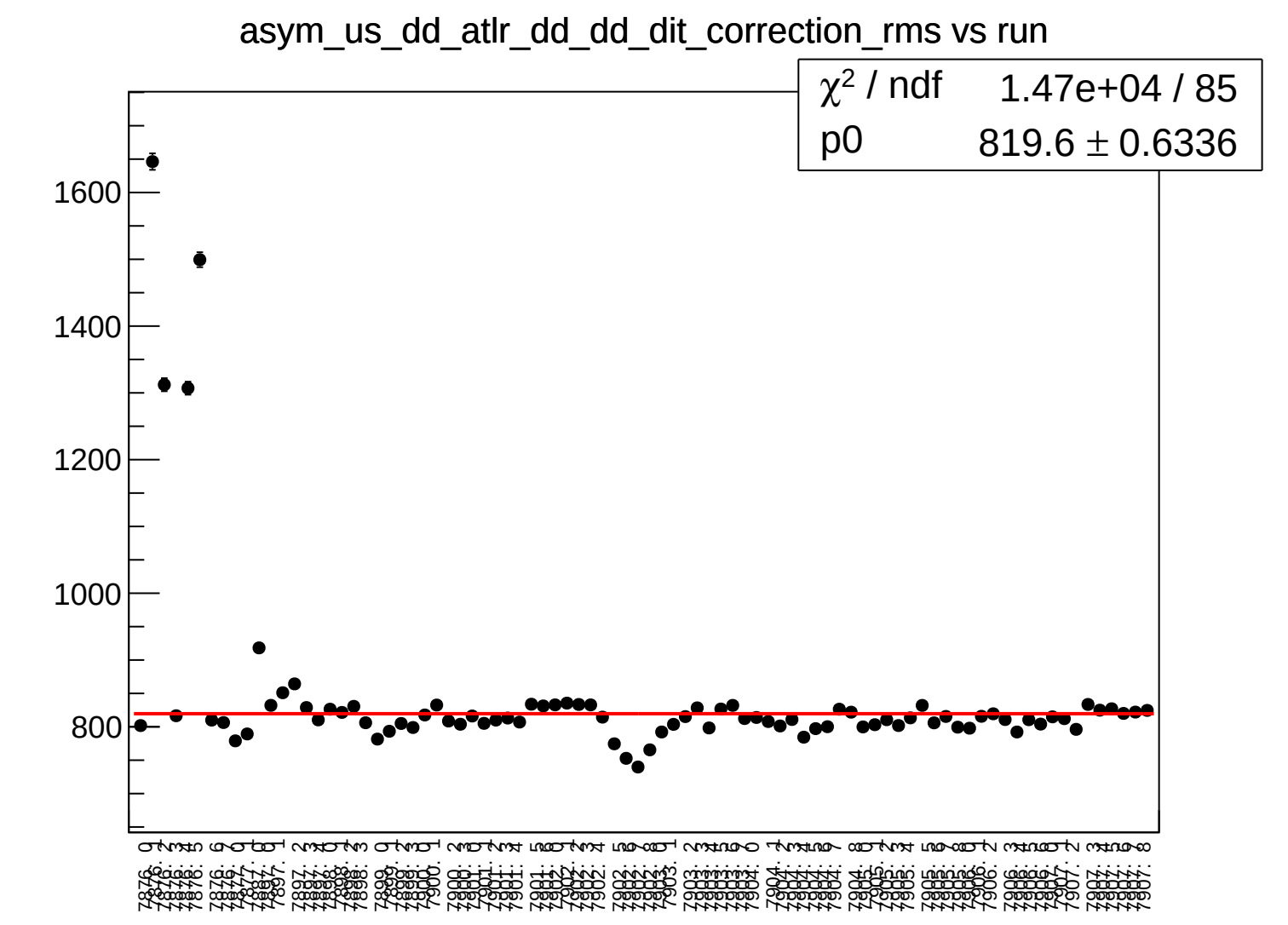

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 82.63 / 85
p0 −711.4 ± 1240
pull
Entries 86
Mean 543.8
Std Dev 0

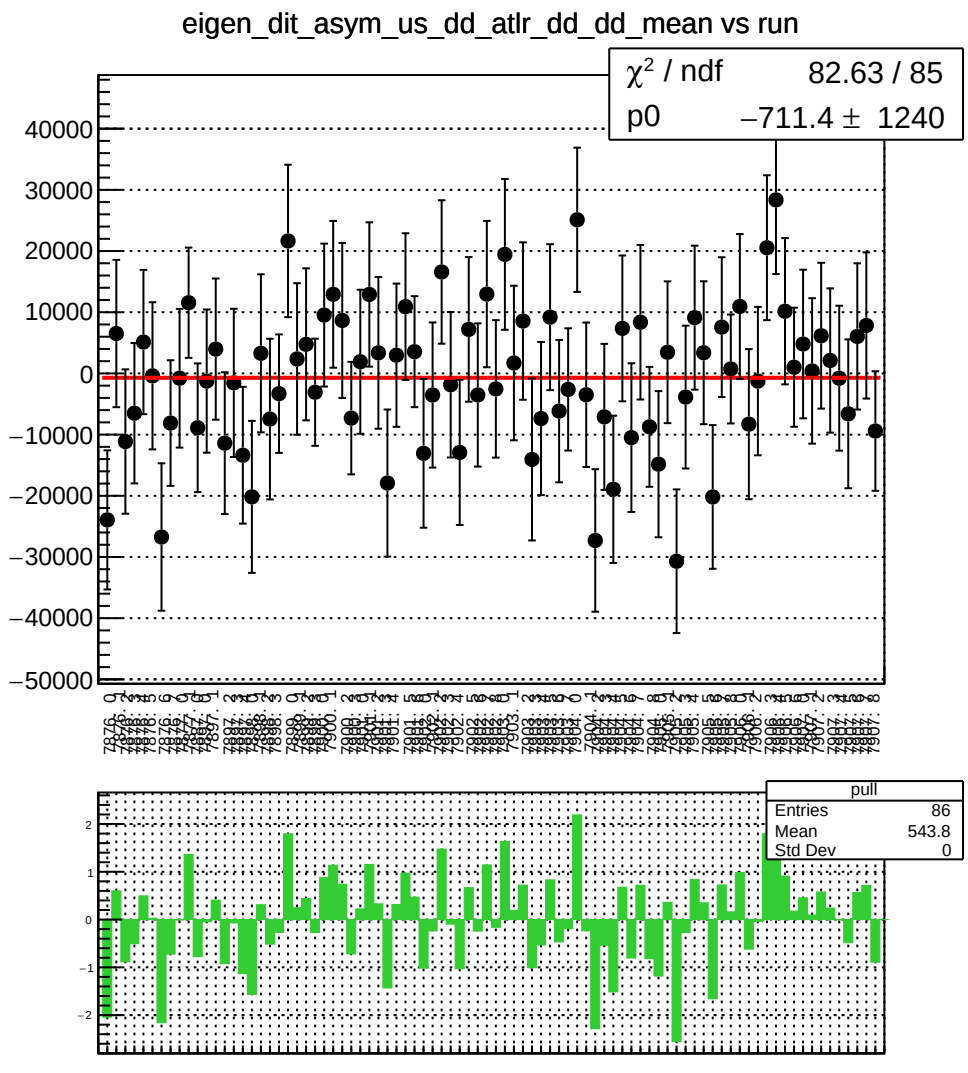

pull1D
Entries 86
Mean 0.006731
Std Dev 0.9802

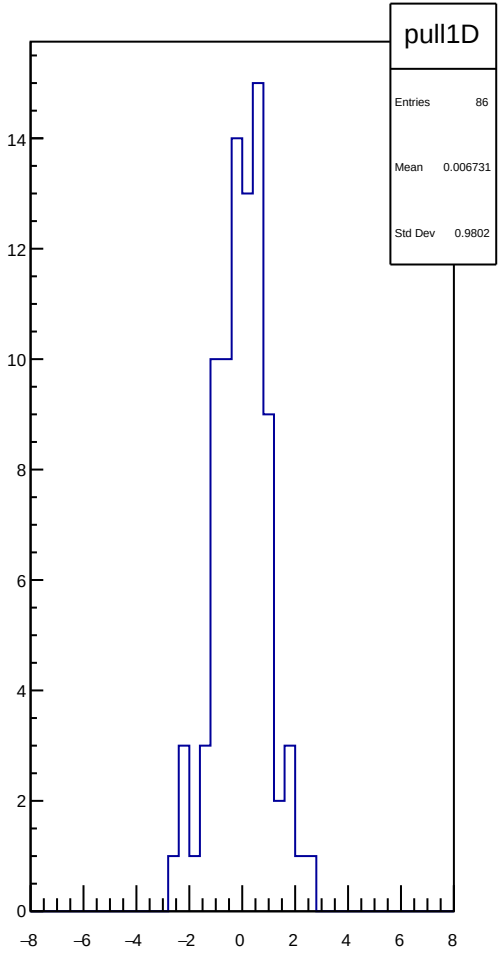

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1699 / 85
p0 1139 ± 0.8769
1250
1200
1150
1100
1050

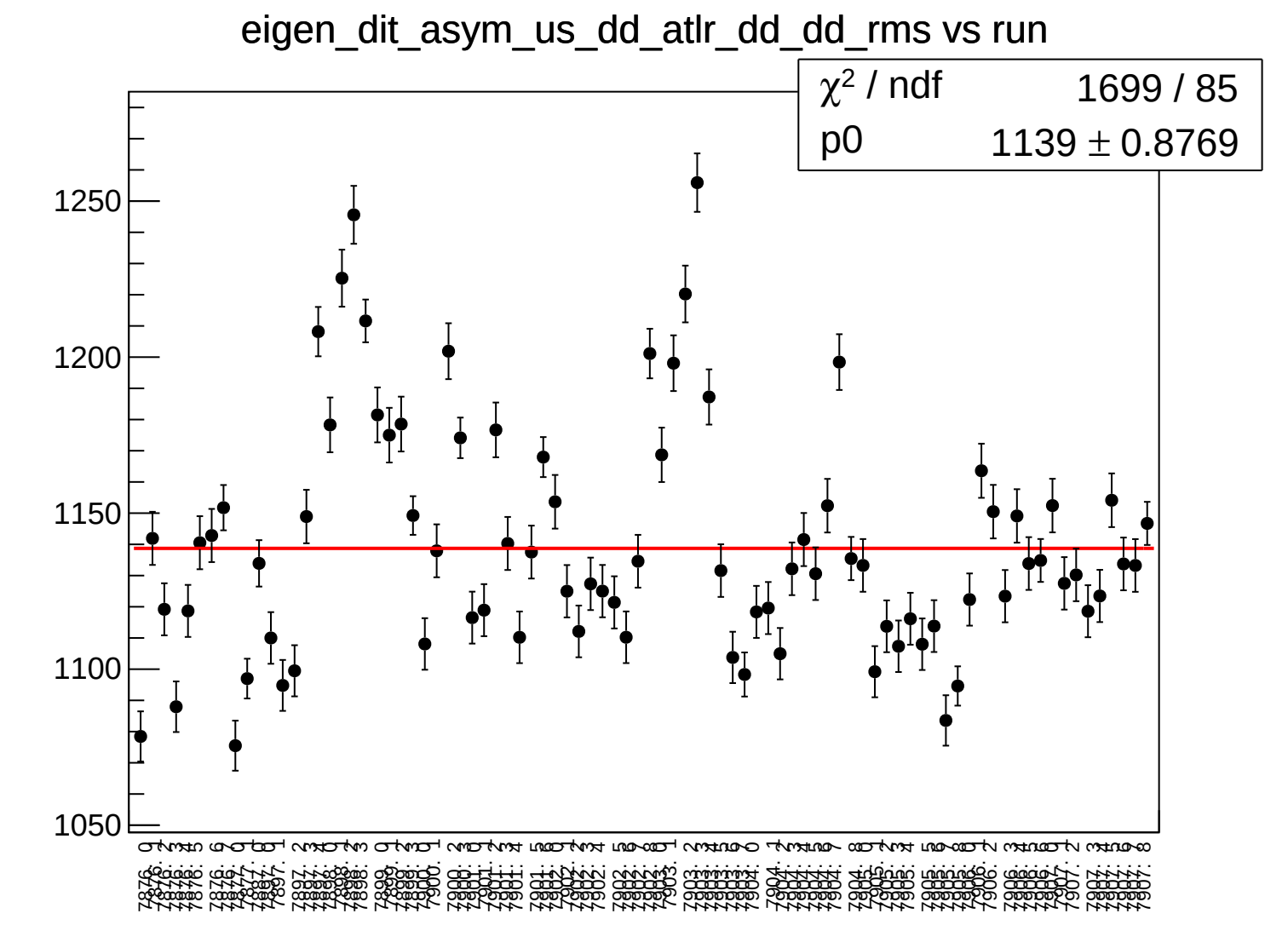

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 90.71 / 85
p0 −319.5 ± 896.1
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −122.6
Std Dev 0
3
2
1
0
−1
−2

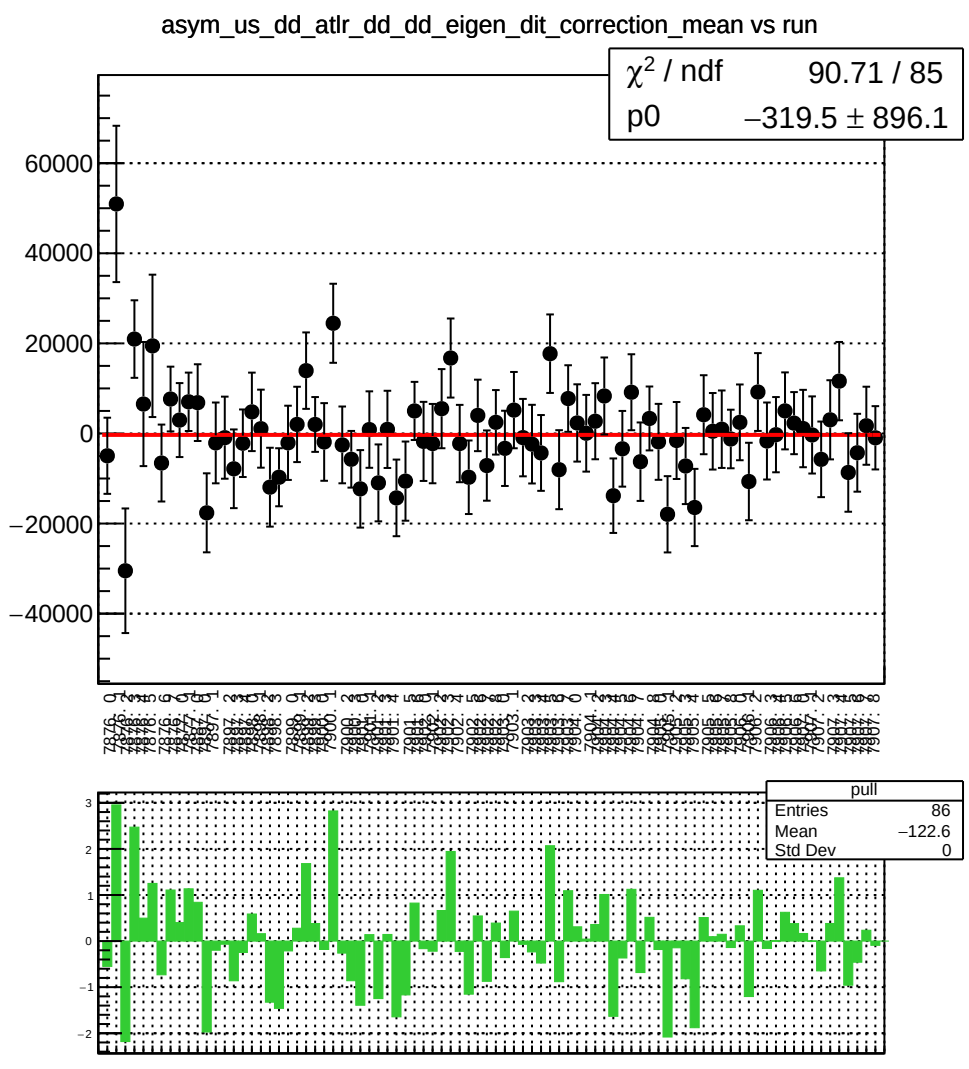

pull1D
Entries 86
Mean 0.01256
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

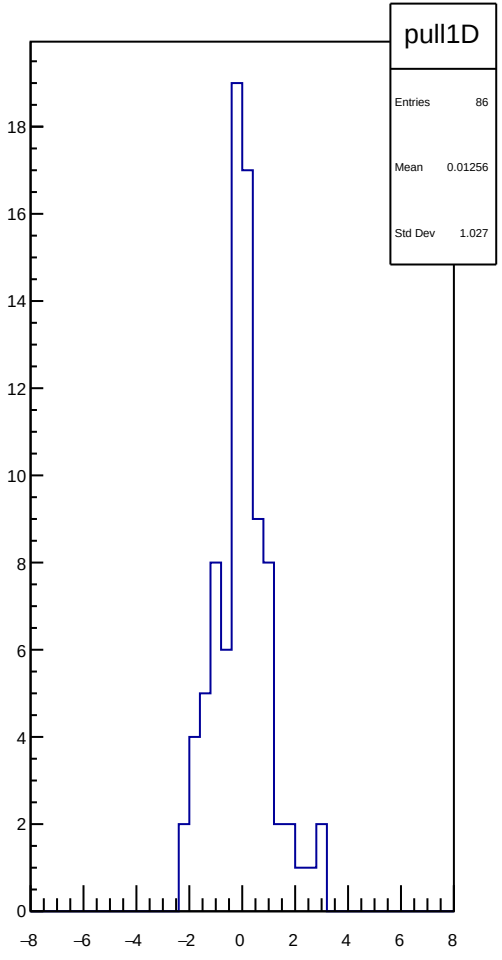

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.47e+04 / 85
p0 819.6 ± 0.6336
1600
1400
1200
1000
800

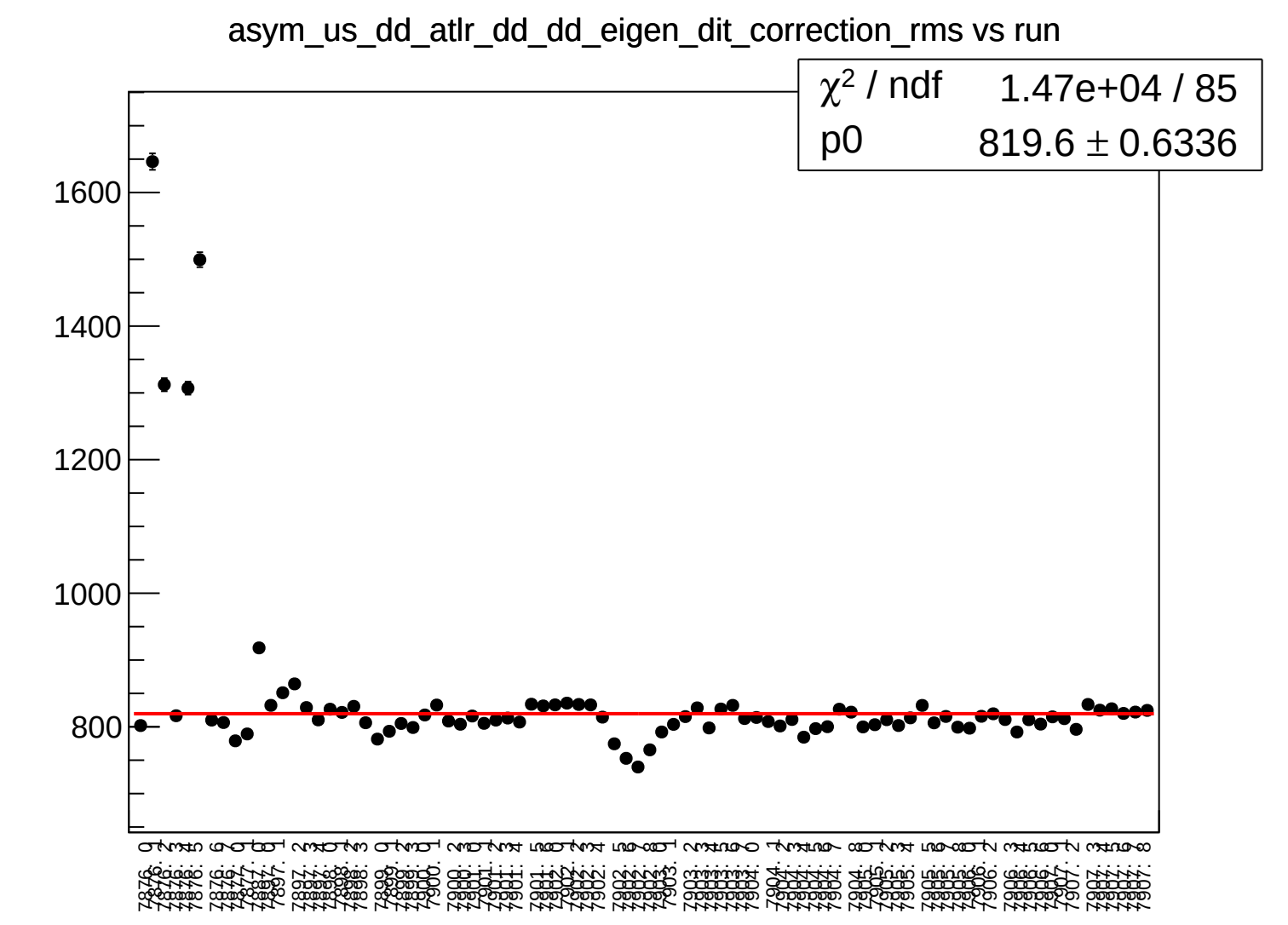

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 82.63 / 85
p0 −711.4 ± 1240
pull
Entries 86
Mean 543.8
Std Dev 0

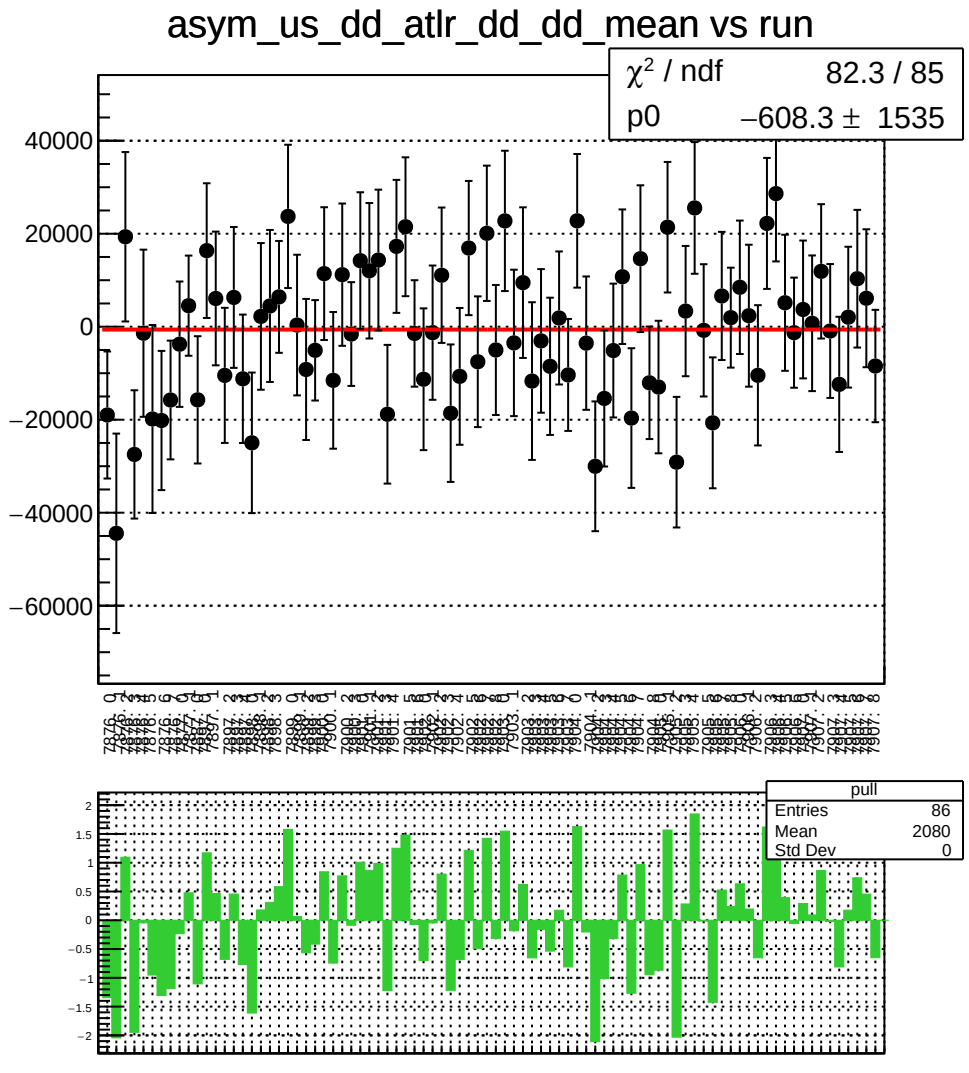

pull1D
Entries 86
Mean 0.006731
Std Dev 0.9802

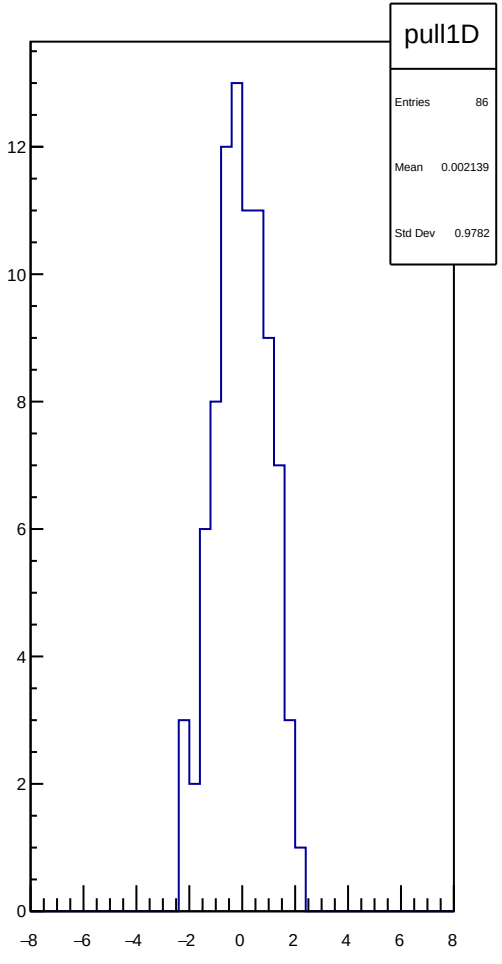

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 1699 / 85
p0 1139 ± 0.8769
1250
1200
1150
1100
1050

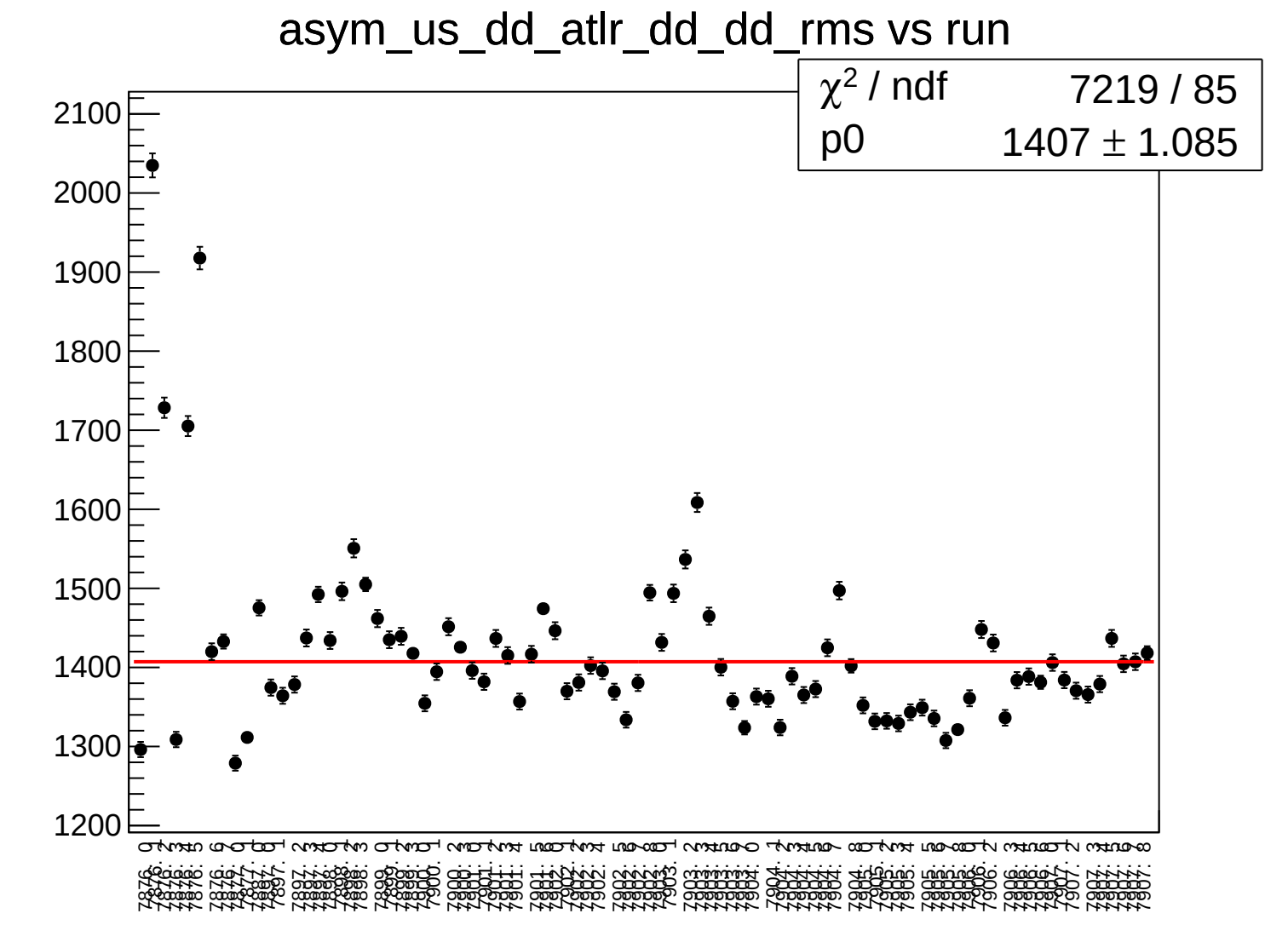

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.71 / 85
p0 −319.5 ± 896.1
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −122.6
Std Dev 0
3
2
1
0
−1
−2

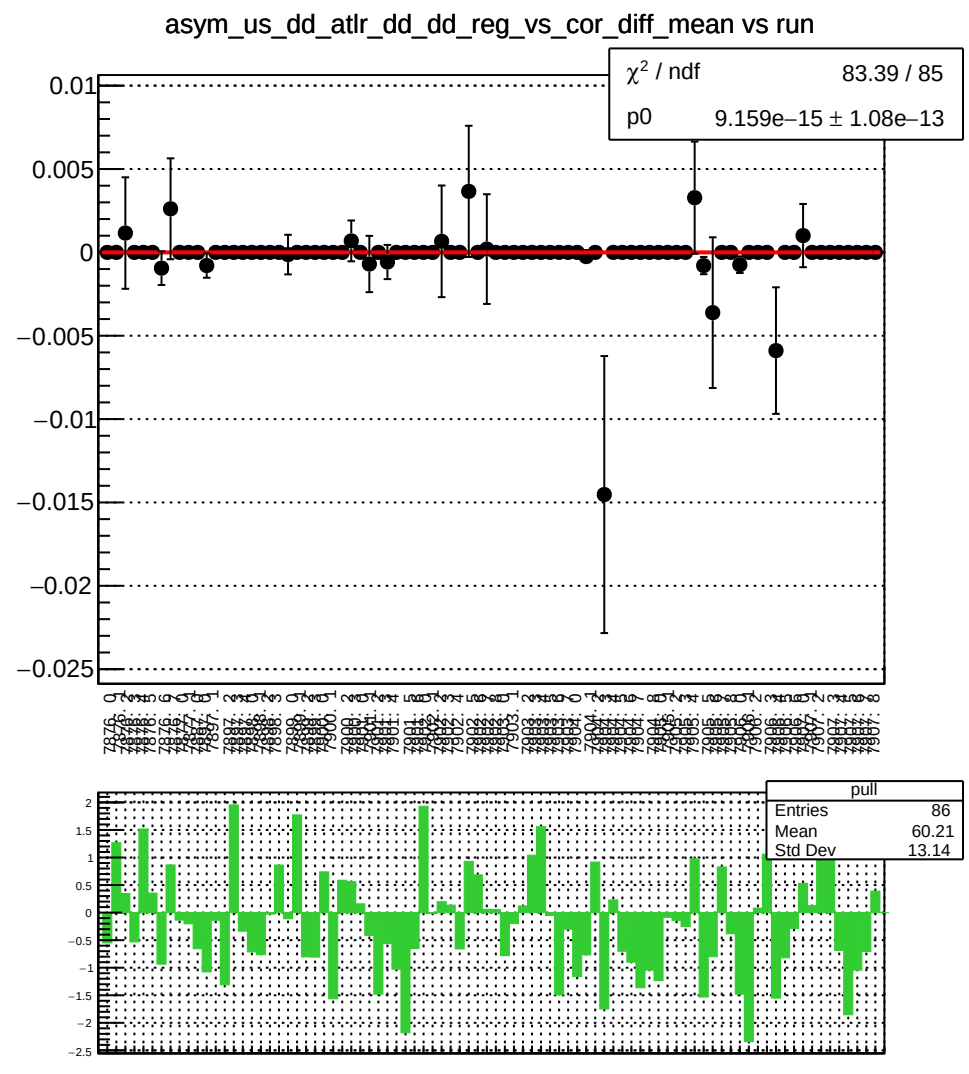

pull1D
Entries 86
Mean 0.01256
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

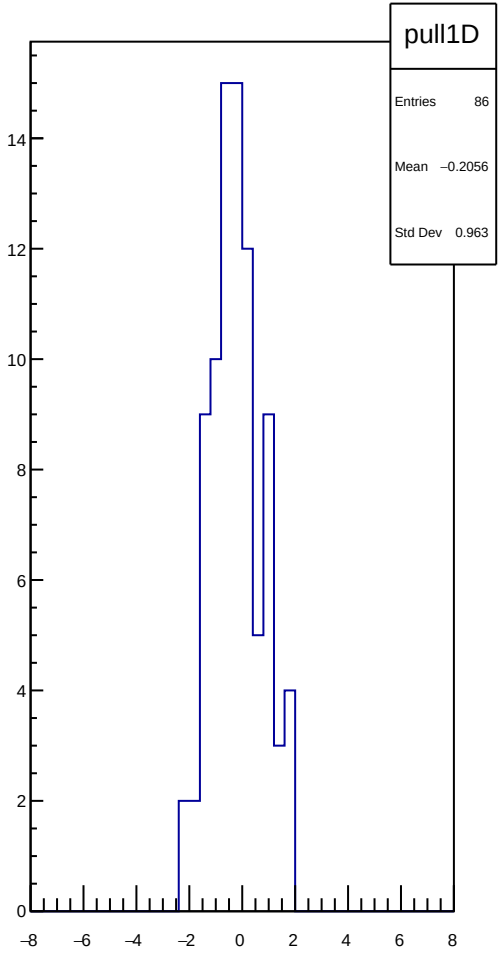

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.47e+04 / 85
p0 819.6 ± 0.6336
1600
1400
1200
1000
800

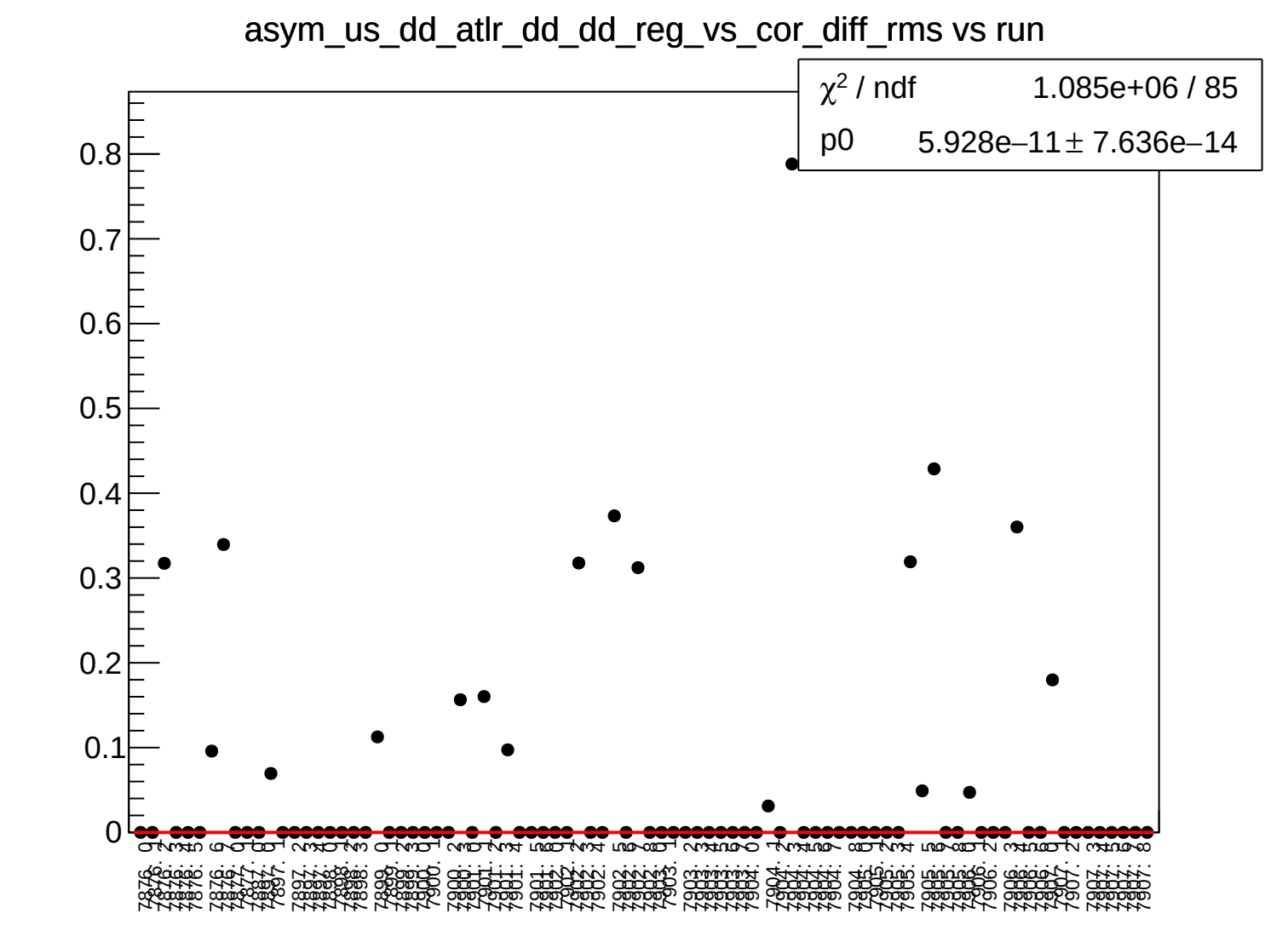

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 82.3 / 85
p0 −608.3 ± 1535
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2080
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

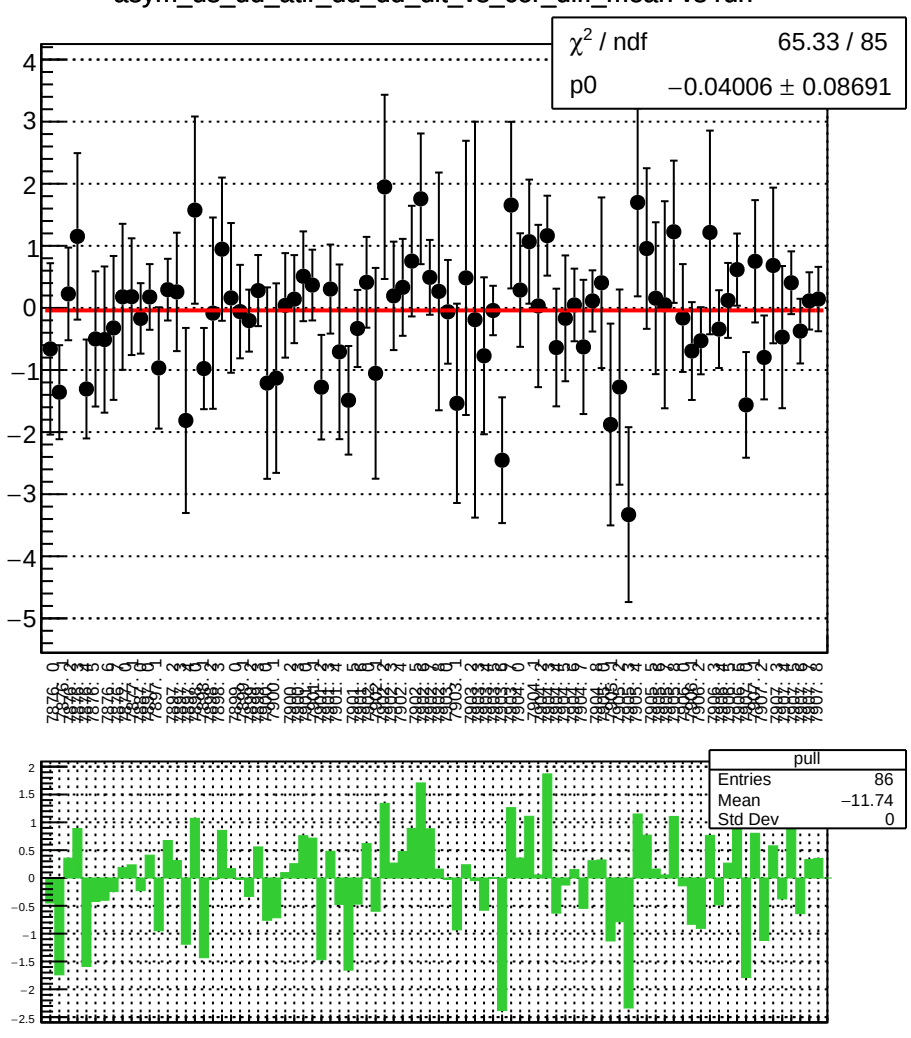

pull1D
Entries 86
Mean 0.002139
Std Dev 0.9782
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

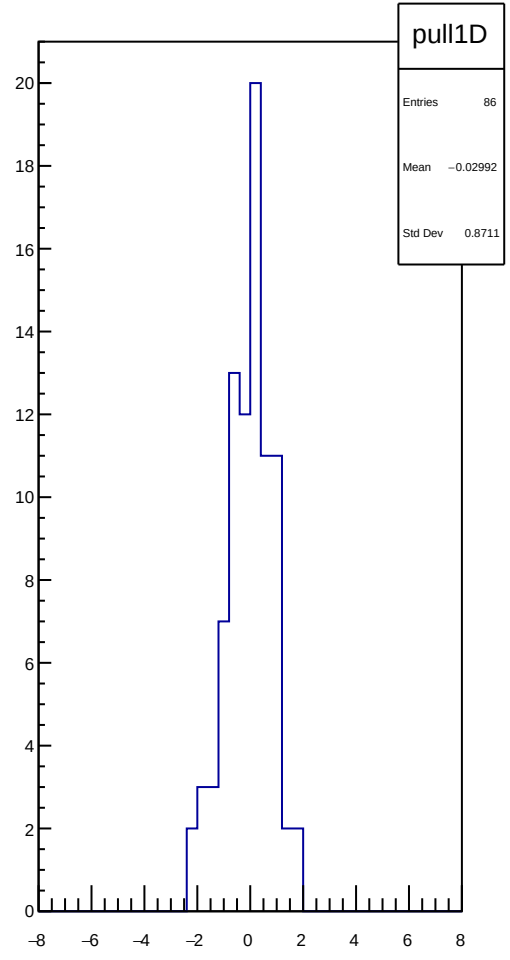

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 7219 / 85
p0 1407 ± 1.085
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

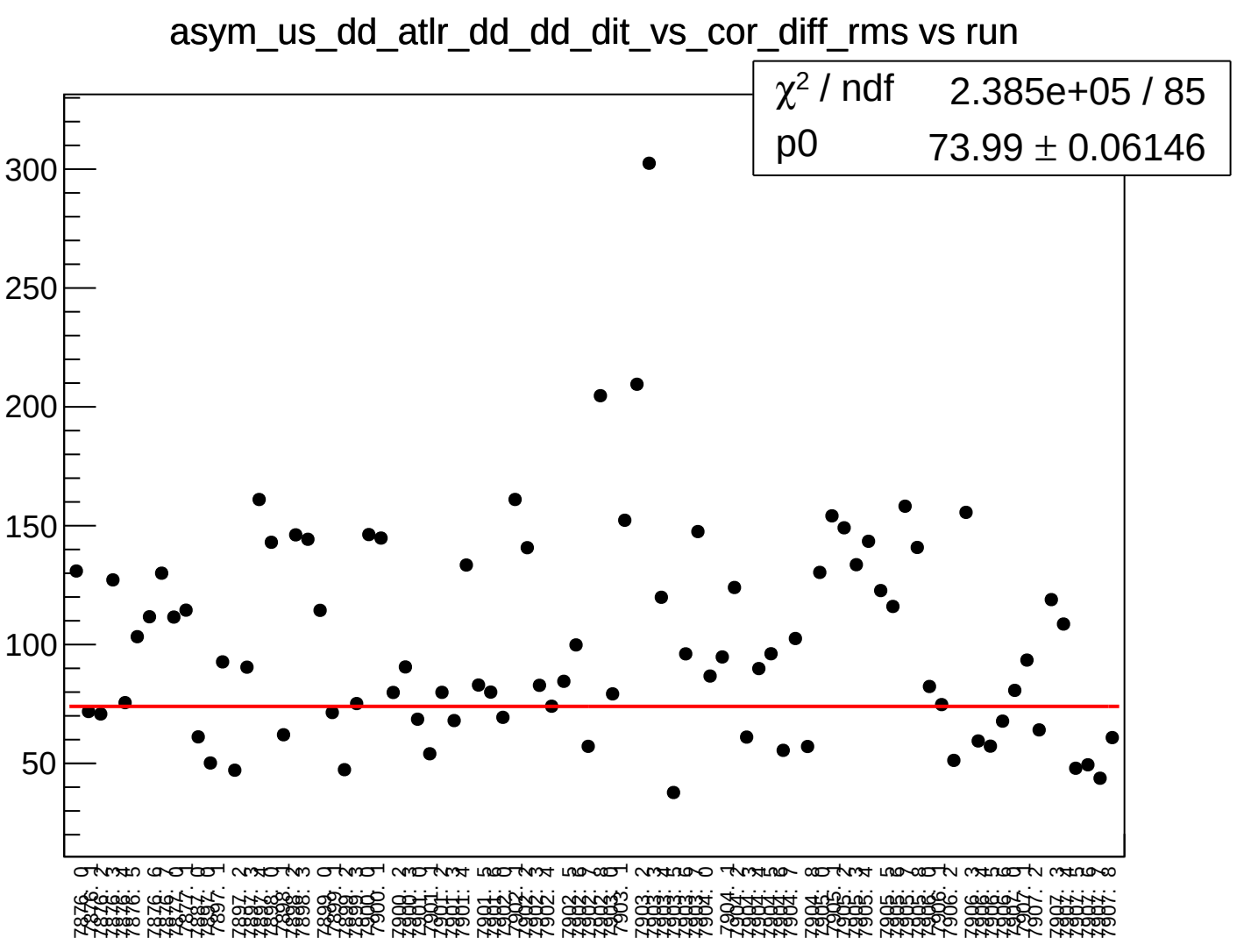

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.39 / 85
p0 9.159e−15 ± 1.08e−13
pull
Entries 86
Mean 60.21
Std Dev 13.14

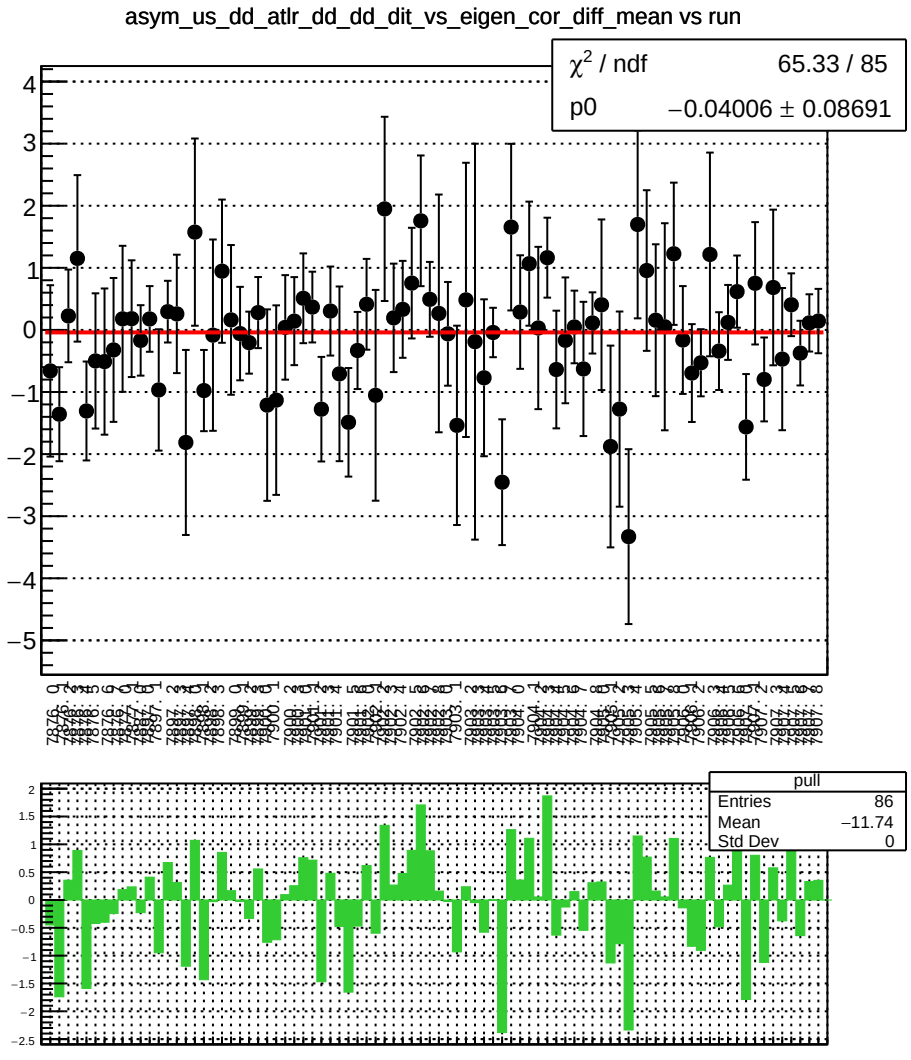

pull1D
Entries 86
Mean −0.2056
Std Dev 0.963

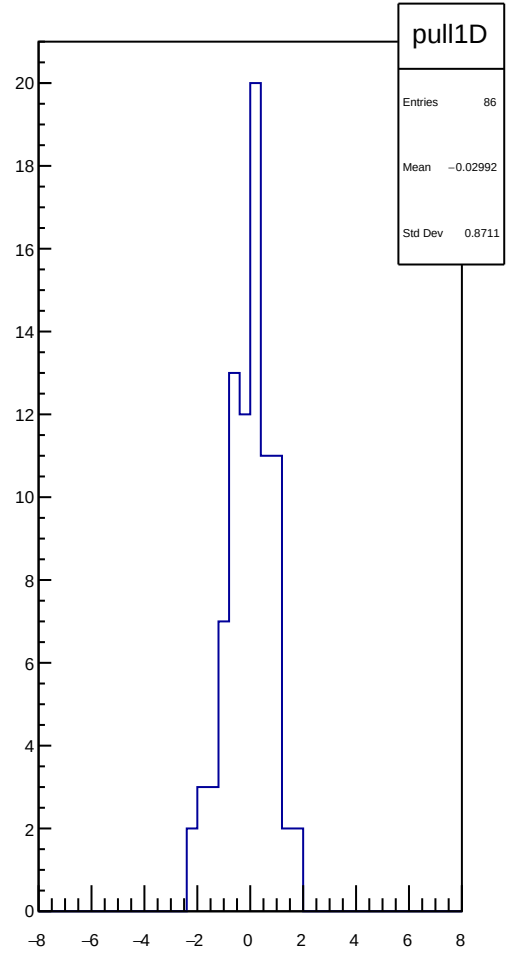

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.085e+06 / 85
p0 5.928e−11 ± 7.636e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

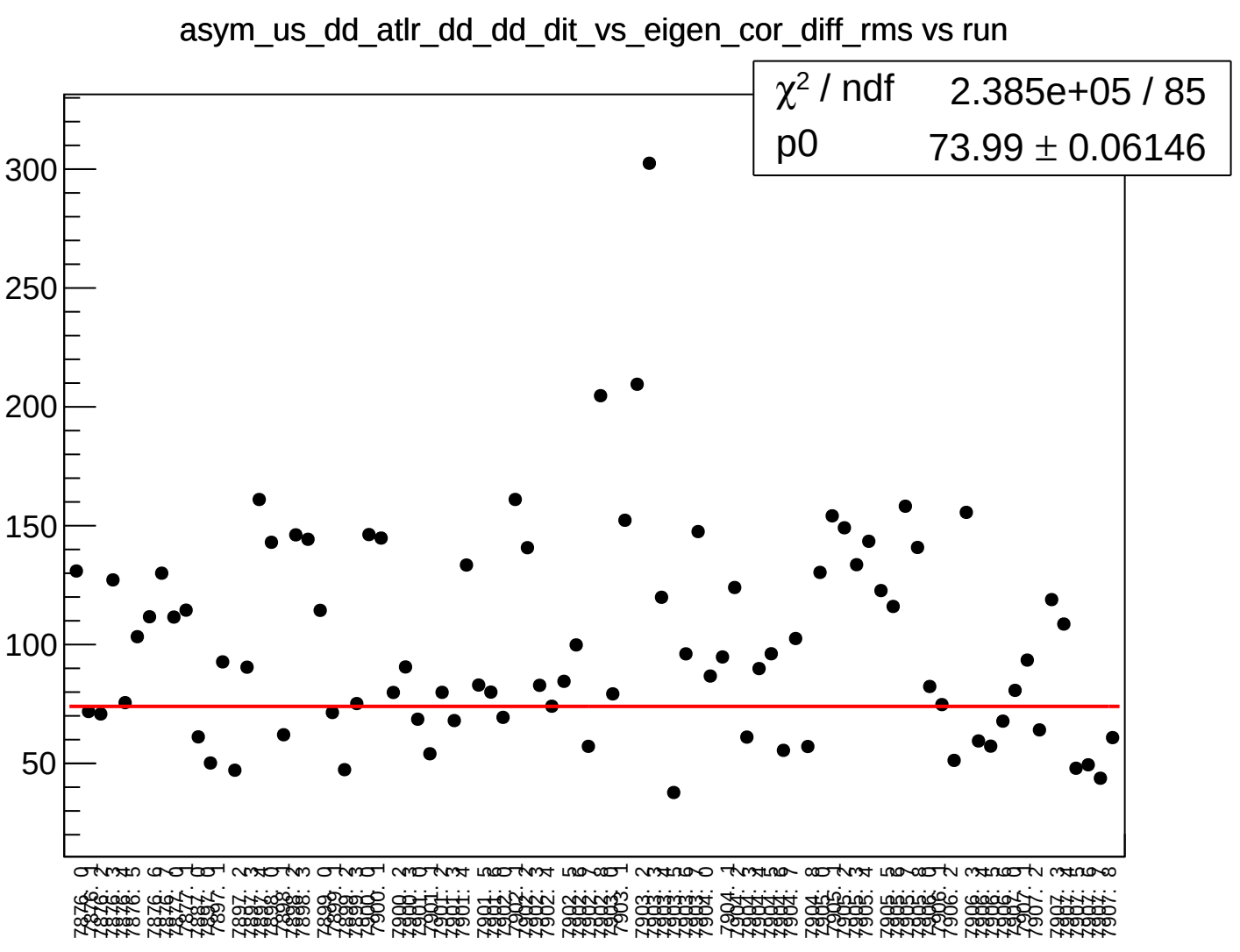

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.33 / 85
p0 −0.04006 ± 0.08691
pull
Entries 86
Mean −11.74
Std Dev 0

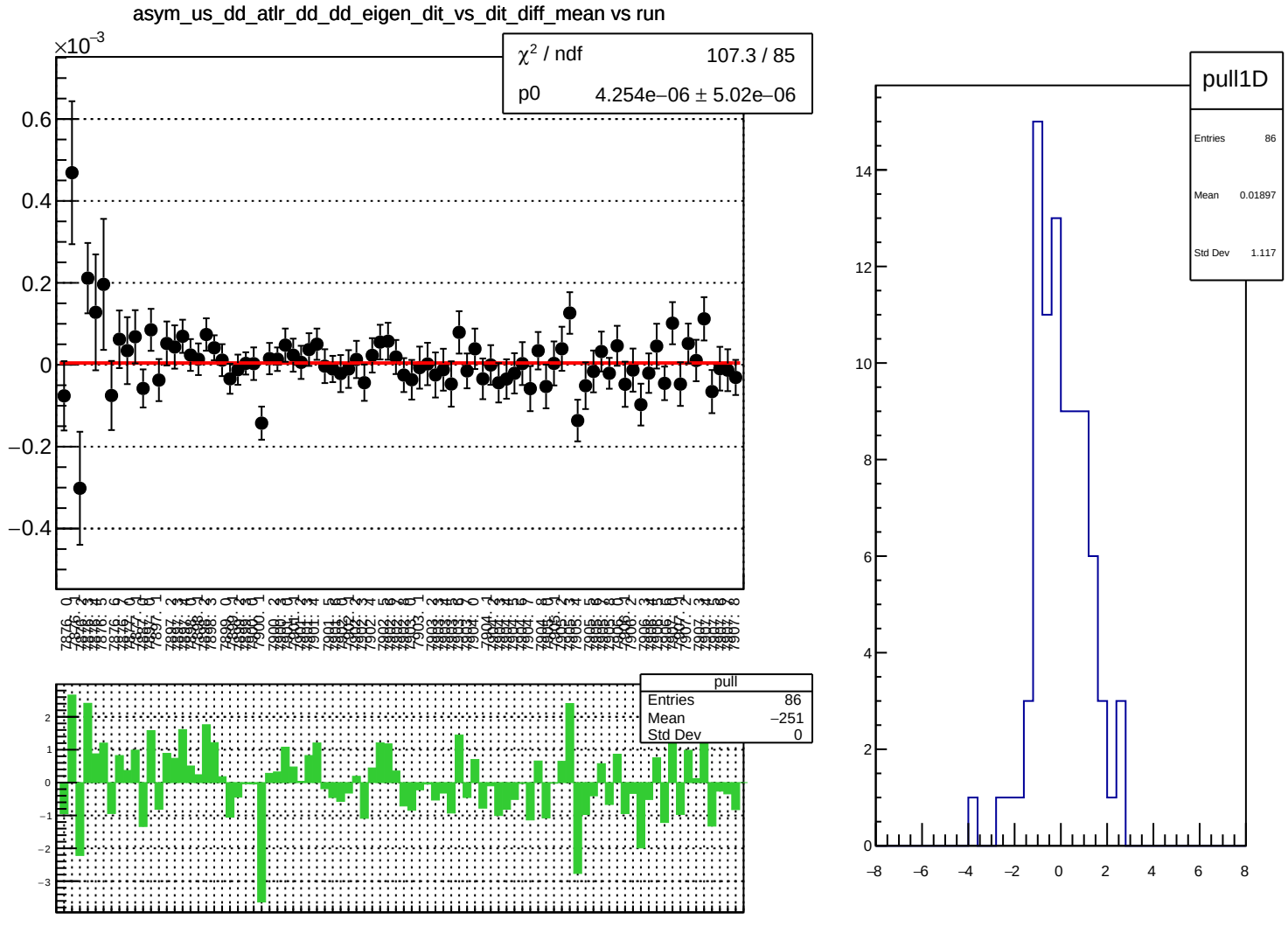

pull1D
Entries 86
Mean −0.02992
Std Dev 0.8711

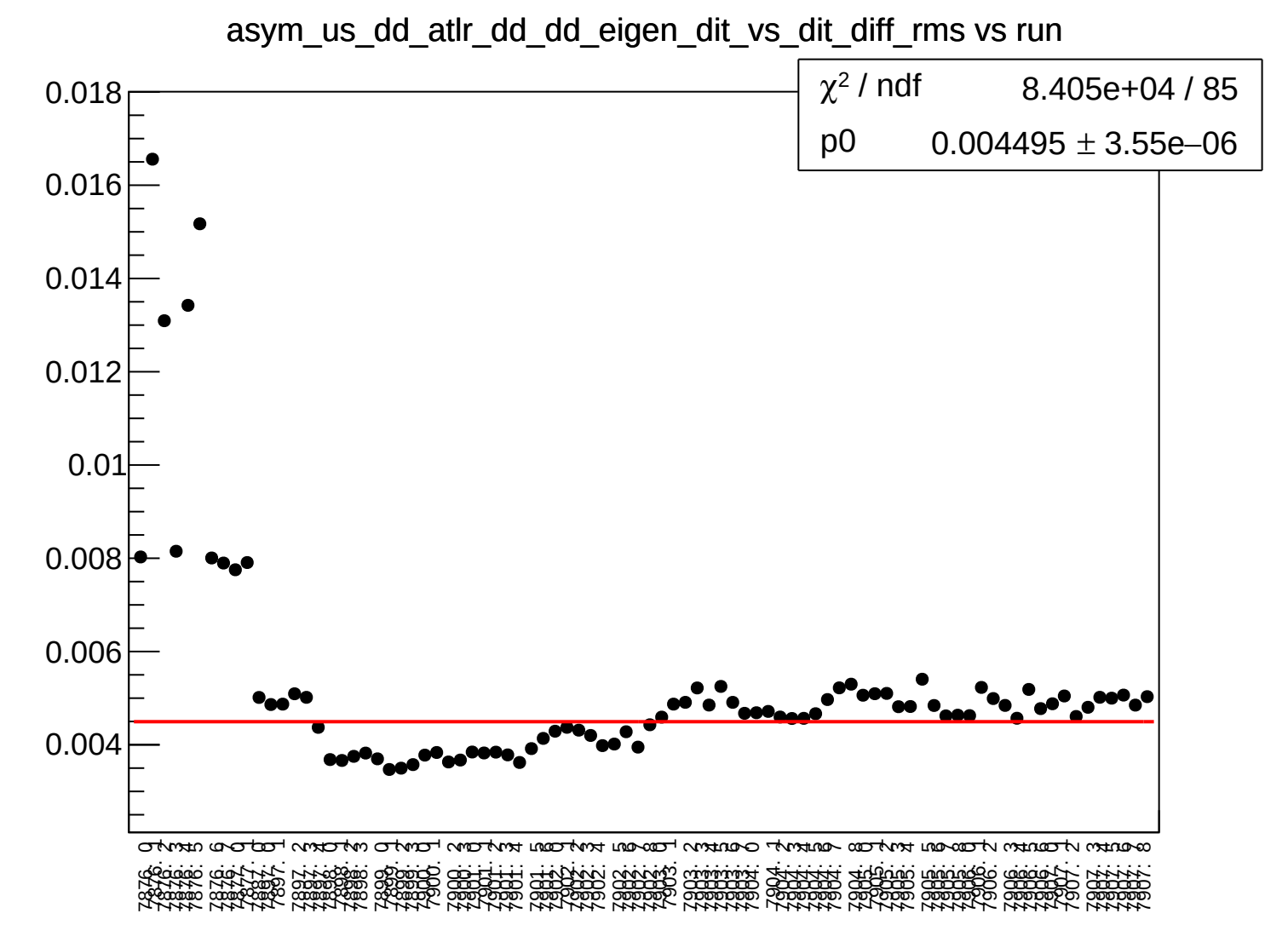

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.385e+05 / 85
p0 73.99 ± 0.06146
300
250
200
150
100
50

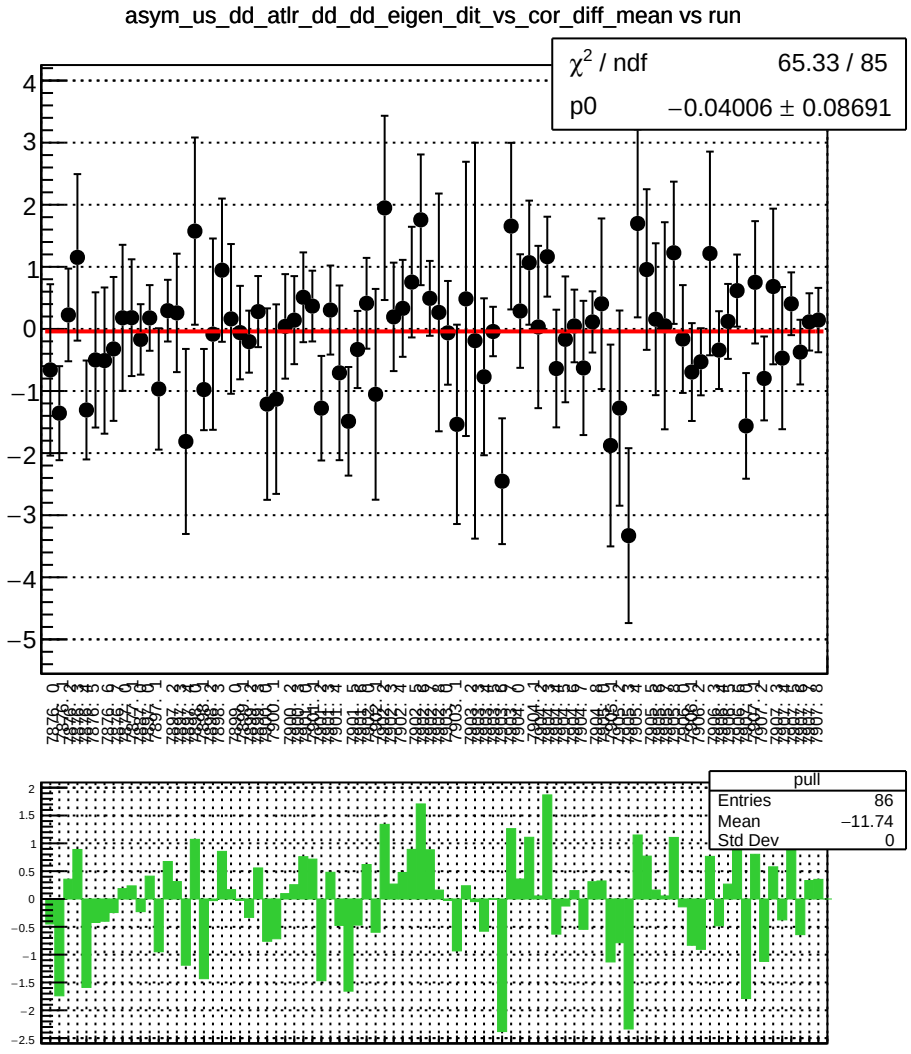

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.33 / 85
p0 −0.04006 ± 0.08691
pull
Entries 86
Mean −11.74
Std Dev 0

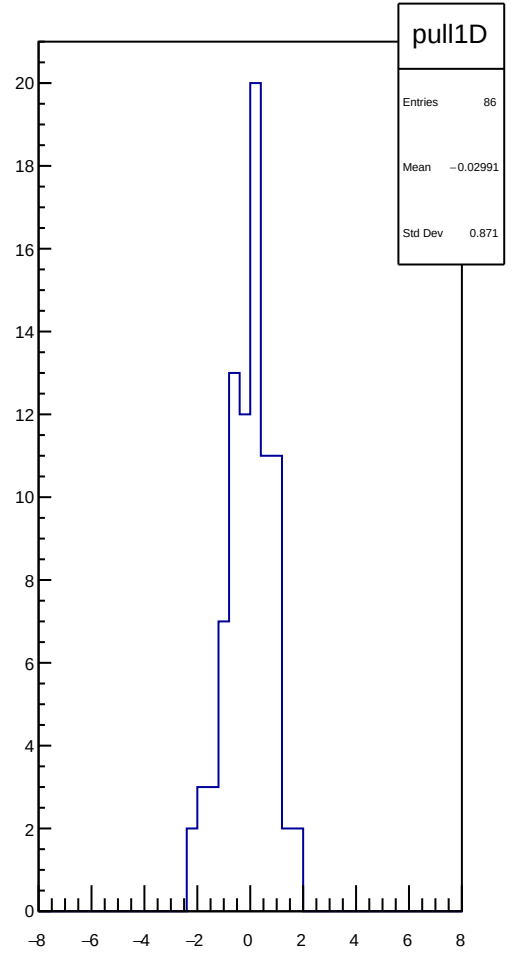

pull1D
Entries 86
Mean −0.02992
Std Dev 0.8711

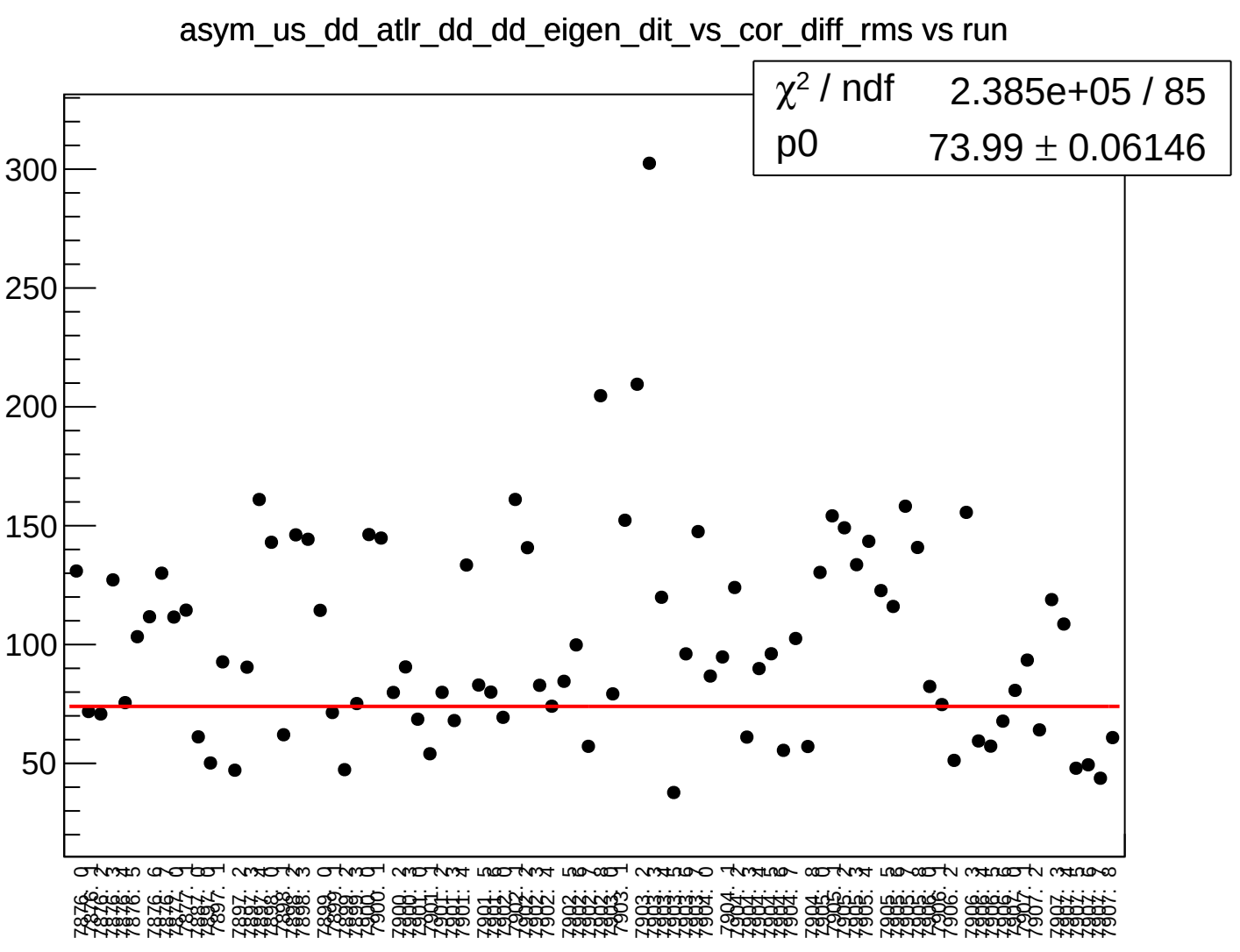

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.385e+05 / 85
p0 73.99 ± 0.06146
300
250
200
150
100
50

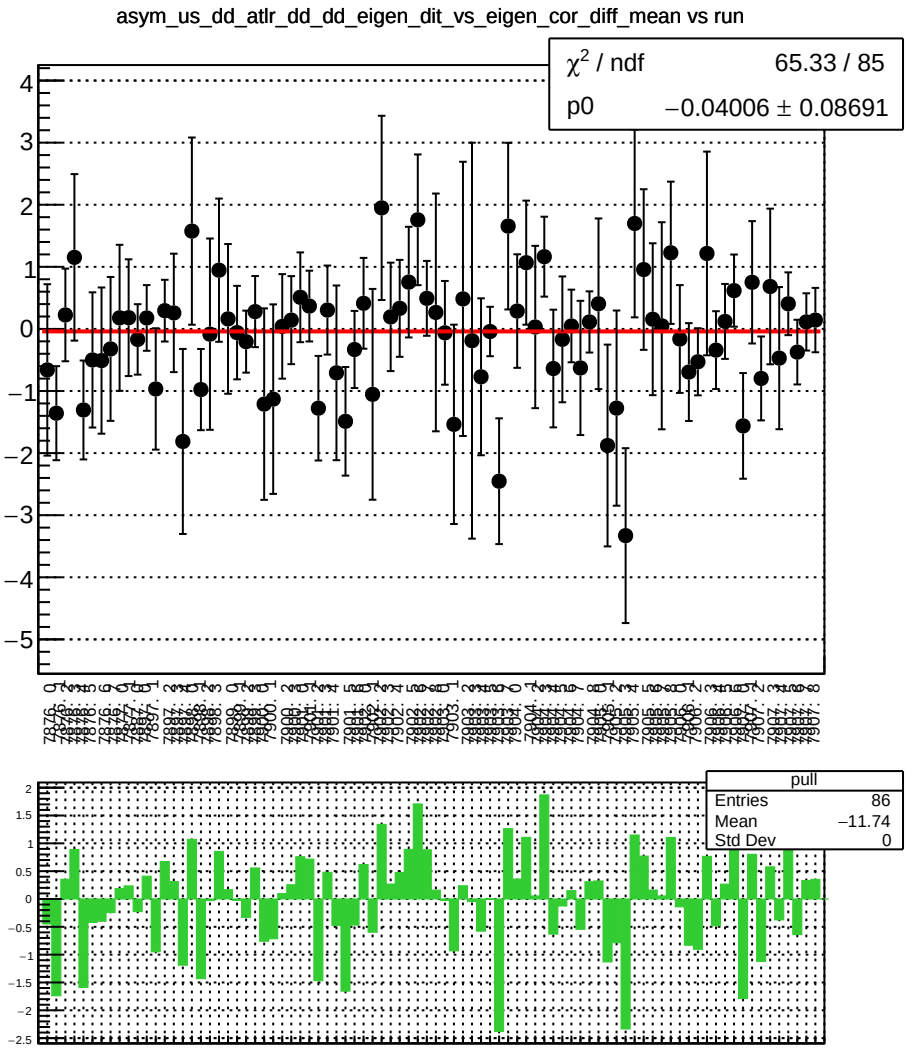

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.3 / 85
p0 4.254e−06 ± 5.02e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 86
Mean −251
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.01897
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

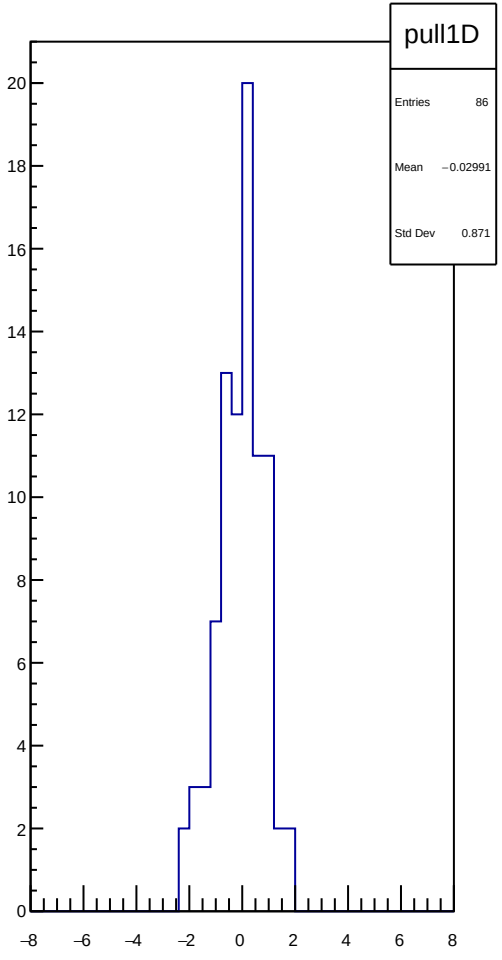

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.405e+04 / 85
p0 0.004495 ± 3.55e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

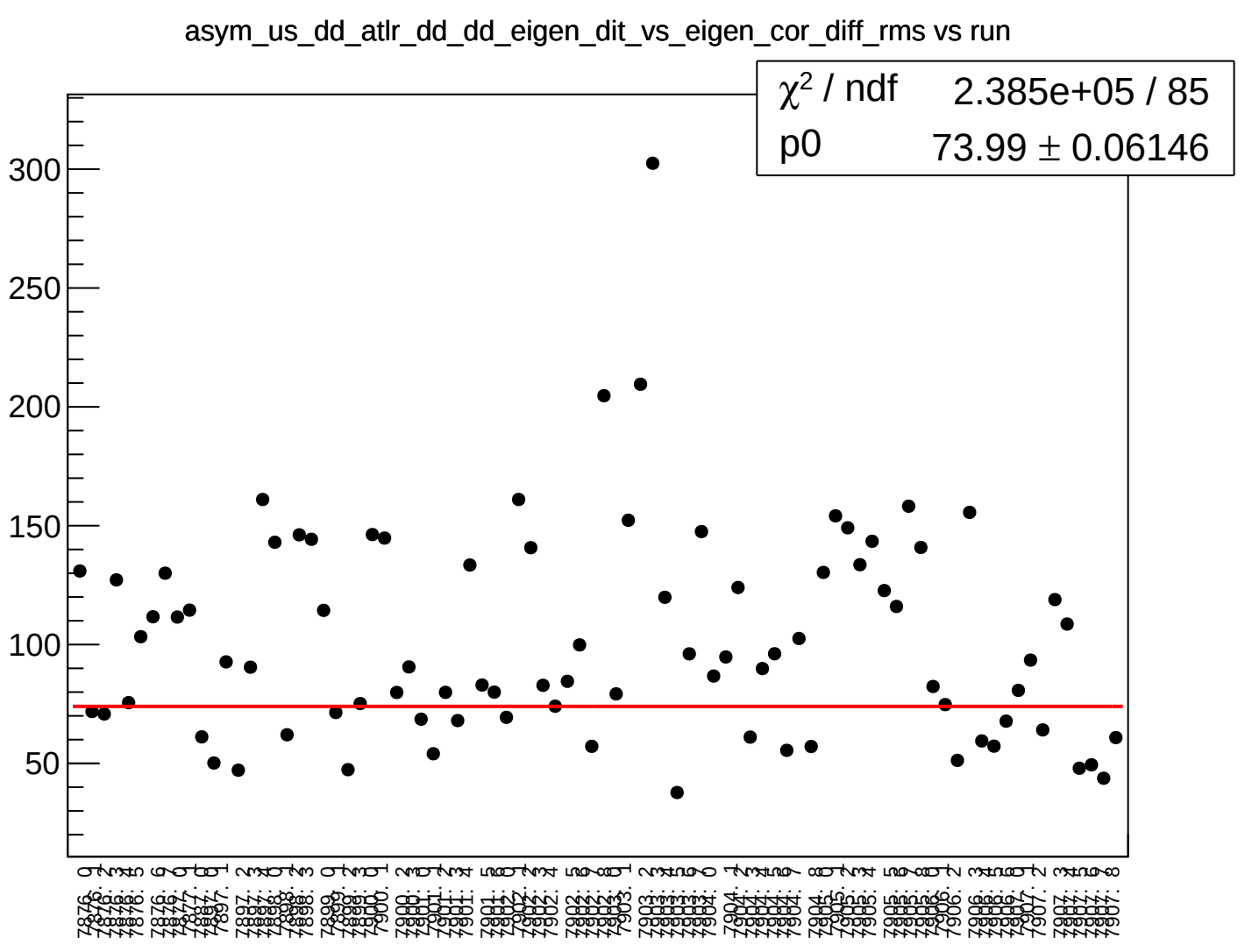

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.33 / 85
p0 −0.04006 ± 0.08691
pull
Entries 86
Mean −11.74
Std Dev 0

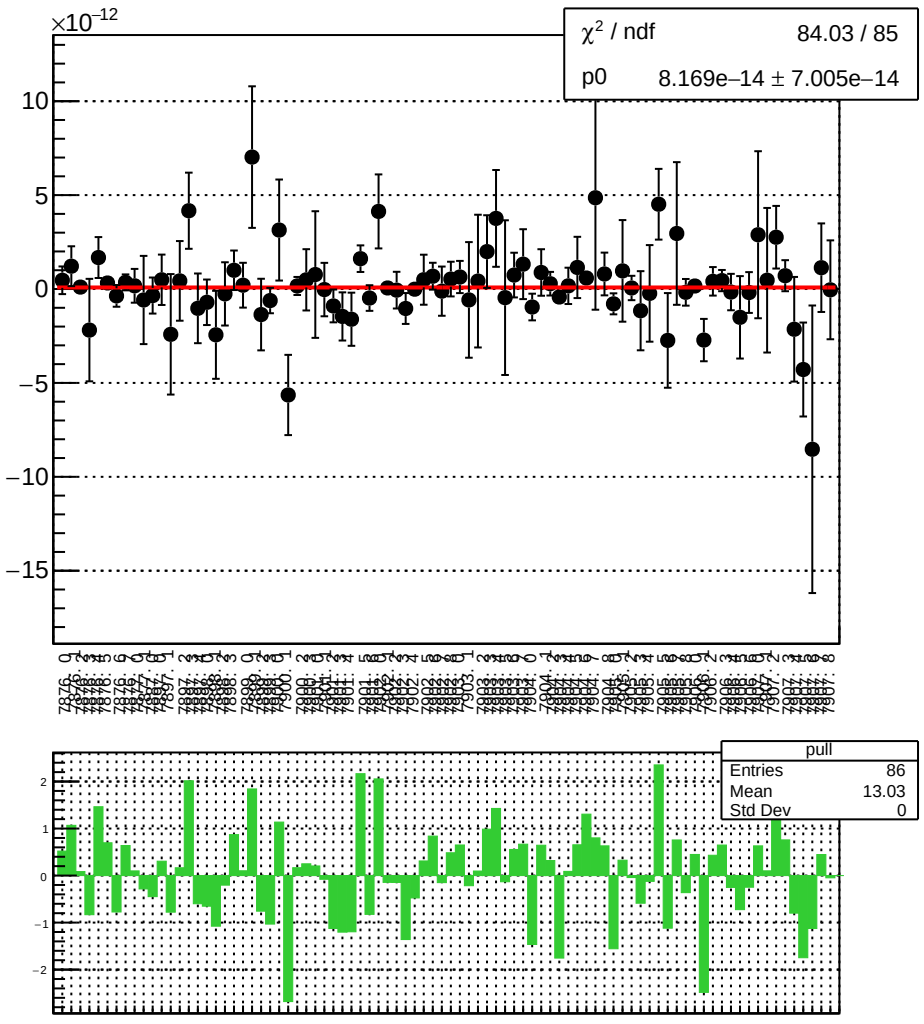

pull1D
Entries 86
Mean −0.02991
Std Dev 0.871

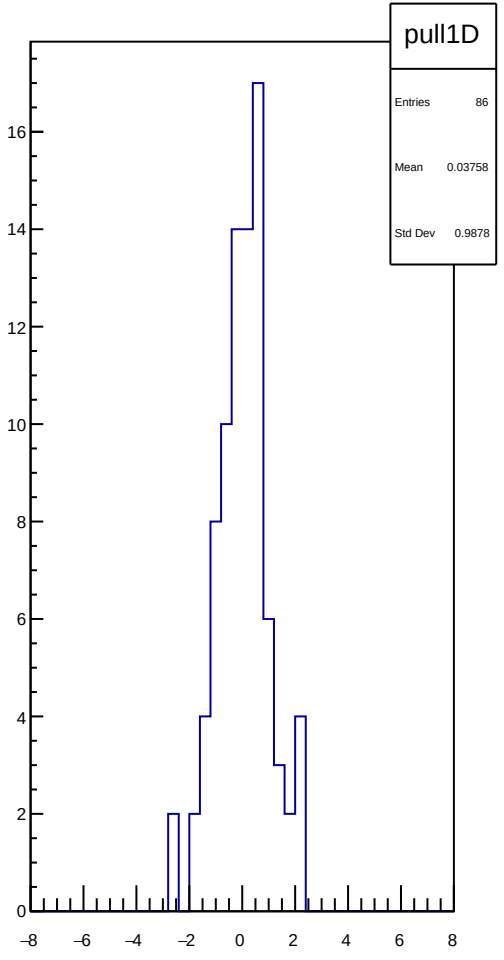

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.385e+05 / 85
p0 73.99 ± 0.06146
300
250
200
150
100
50

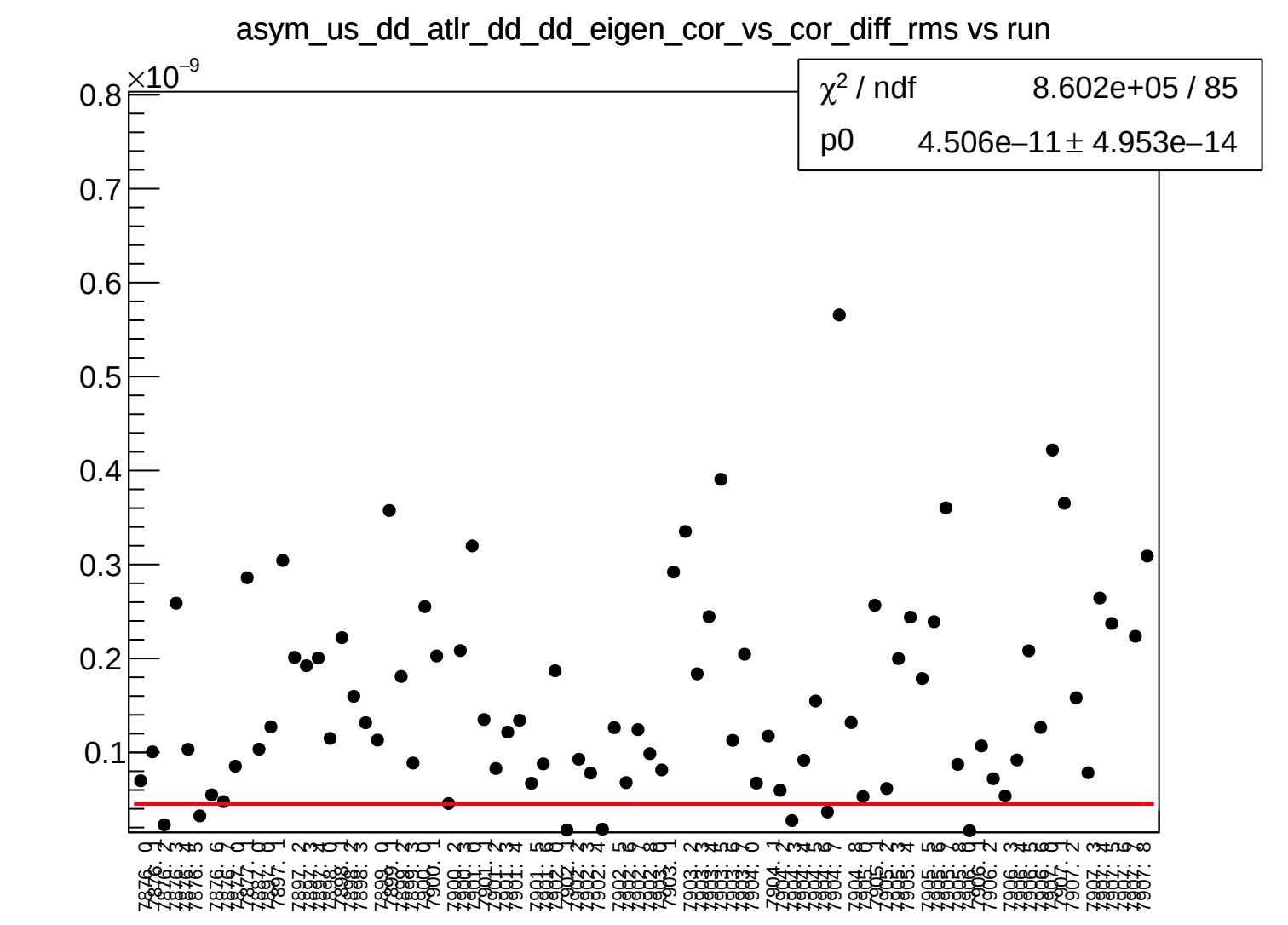

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.33 / 85
p0 −0.04006 ± 0.08691
pull
Entries 86
Mean −11.74
Std Dev 0

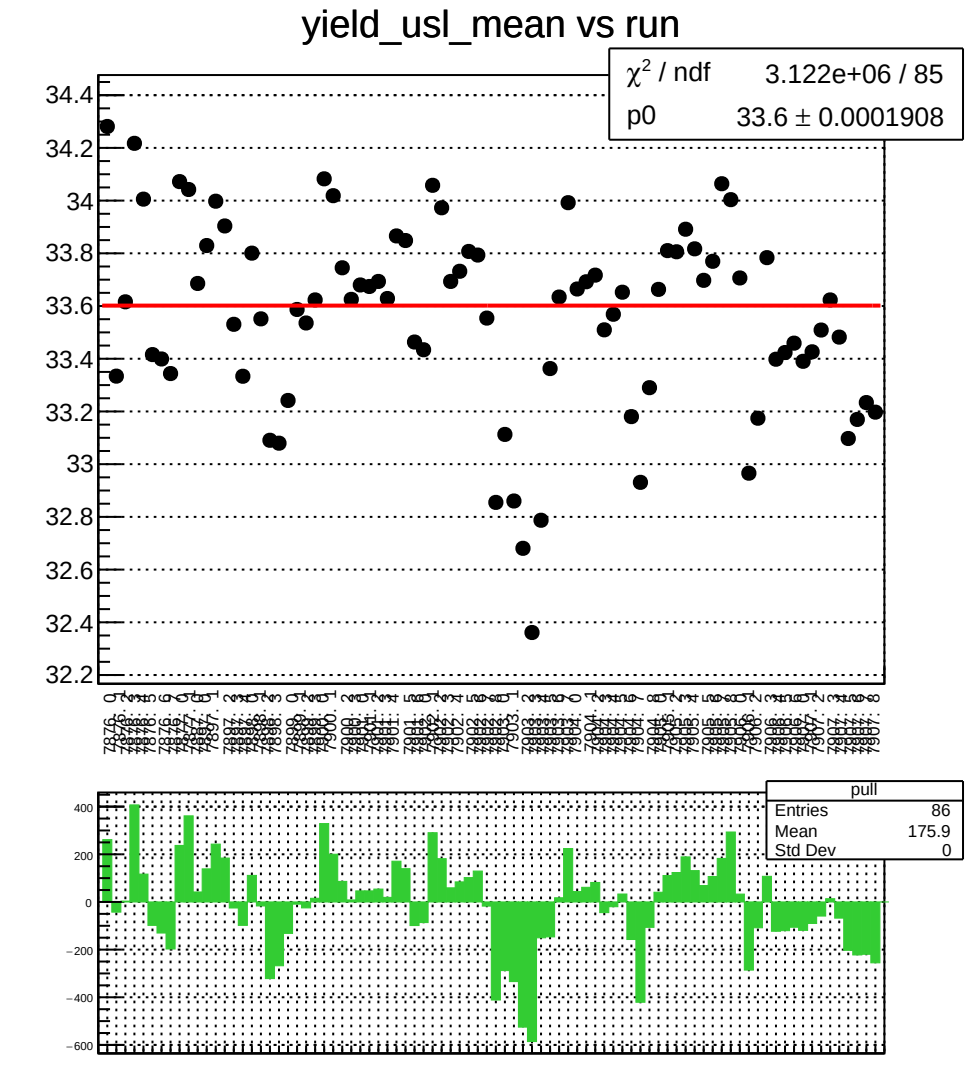

pull1D
Entries 86
Mean −0.02991
Std Dev 0.871

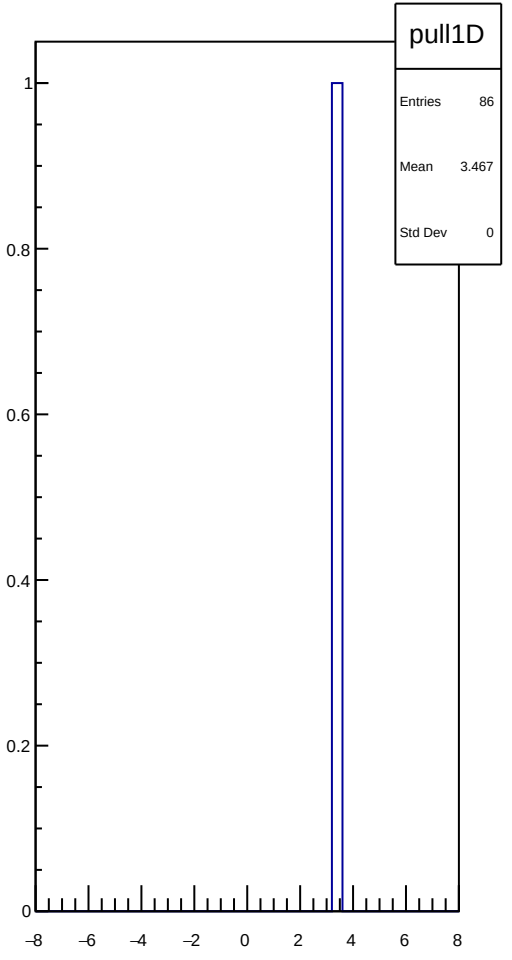

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.385e+05 / 85
p0 73.99 ± 0.06146
300
250
200
150
100
50

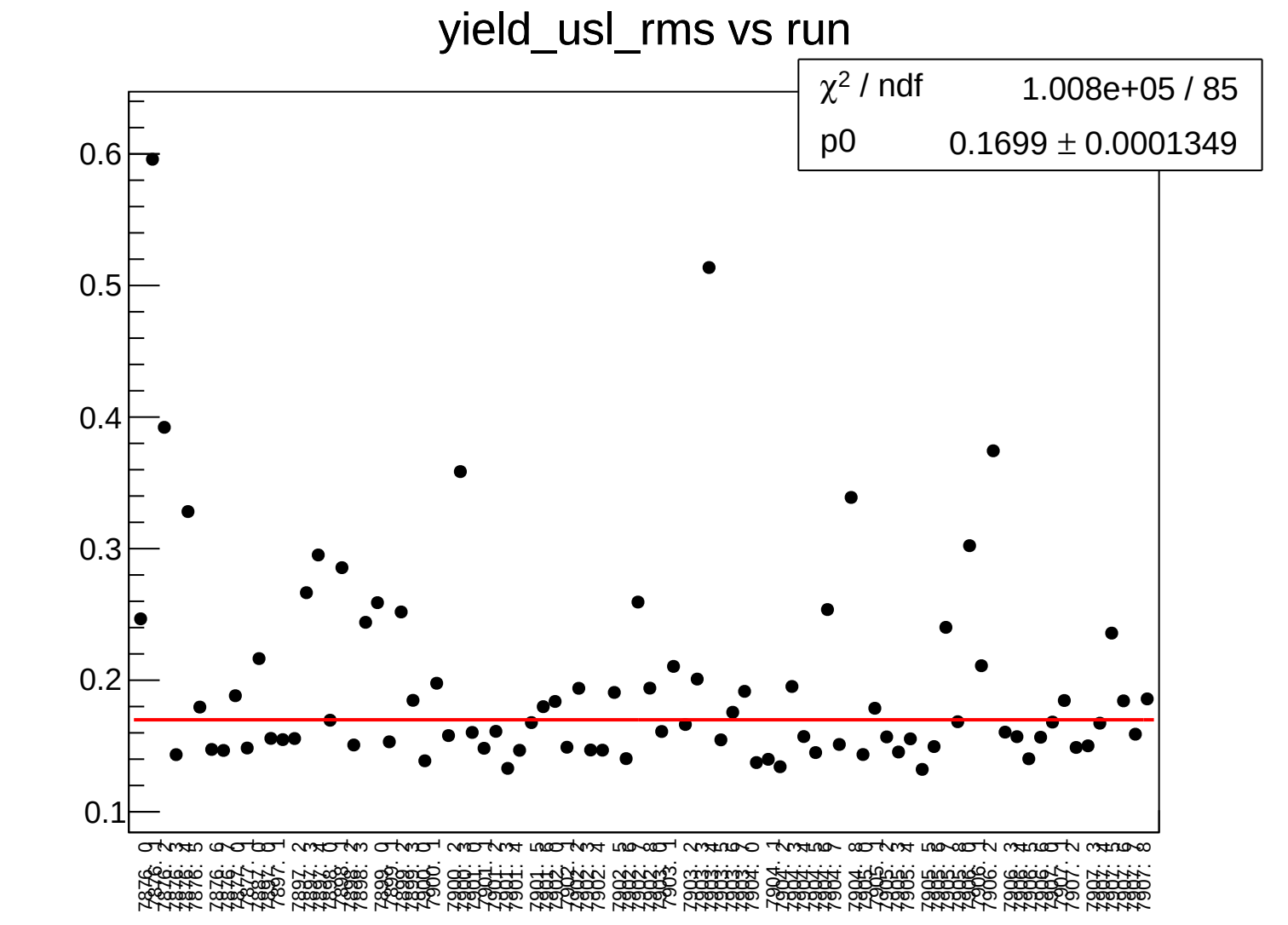

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.03 / 85
p0 8.169e−14 ± 7.005e−14
10
5
0
−5
−10
−15
pull
Entries 86
Mean 13.03
Std Dev 0
2
1
0
−1
−2

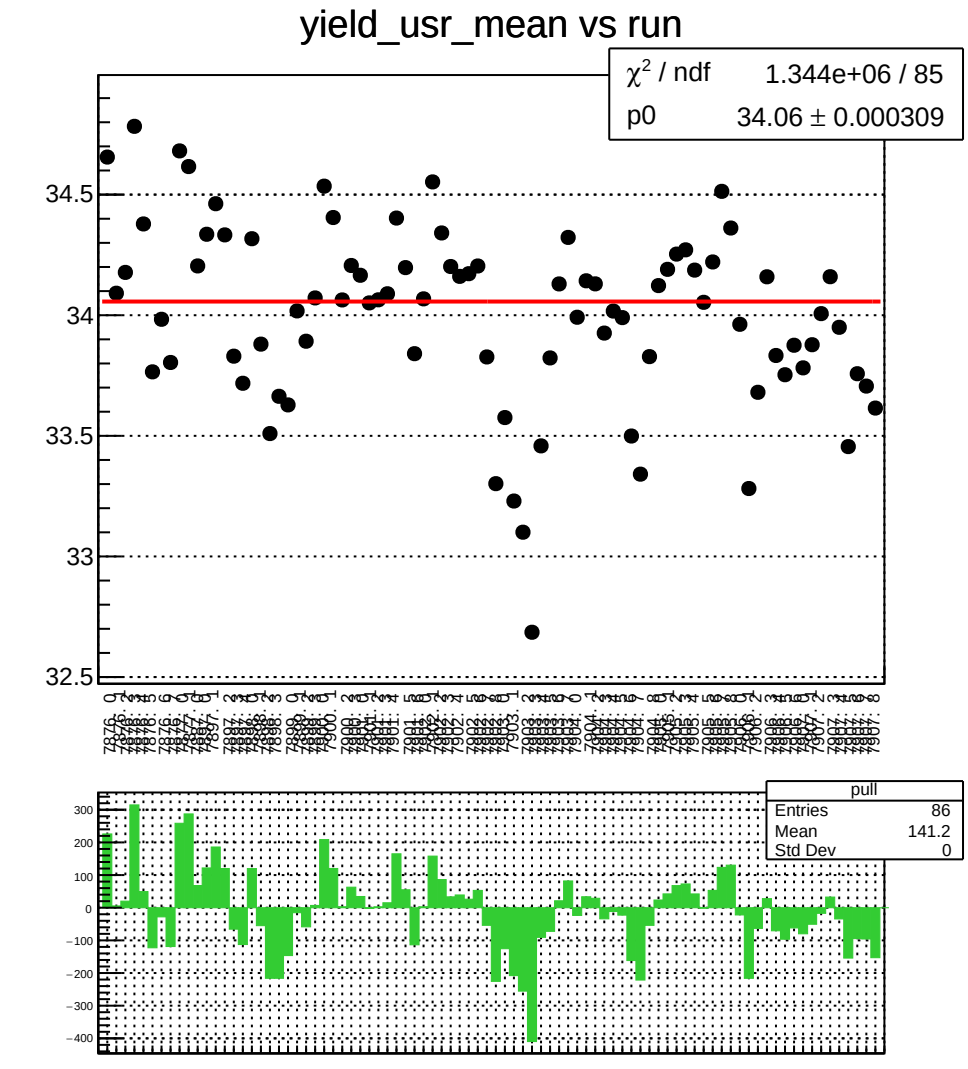

pull1D
Entries 86
Mean 0.03758
Std Dev 0.9878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

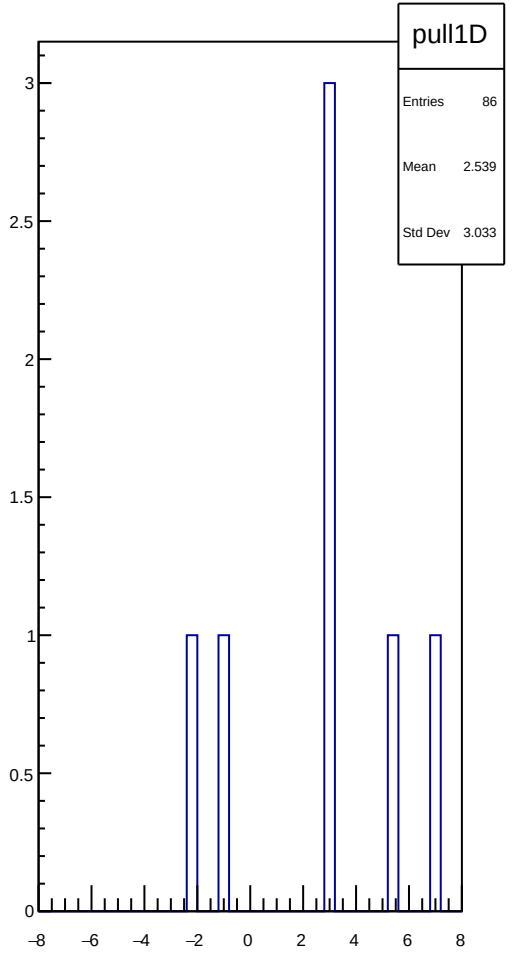

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.602e+05 / 85
p0 4.506e−11 ± 4.953e−14

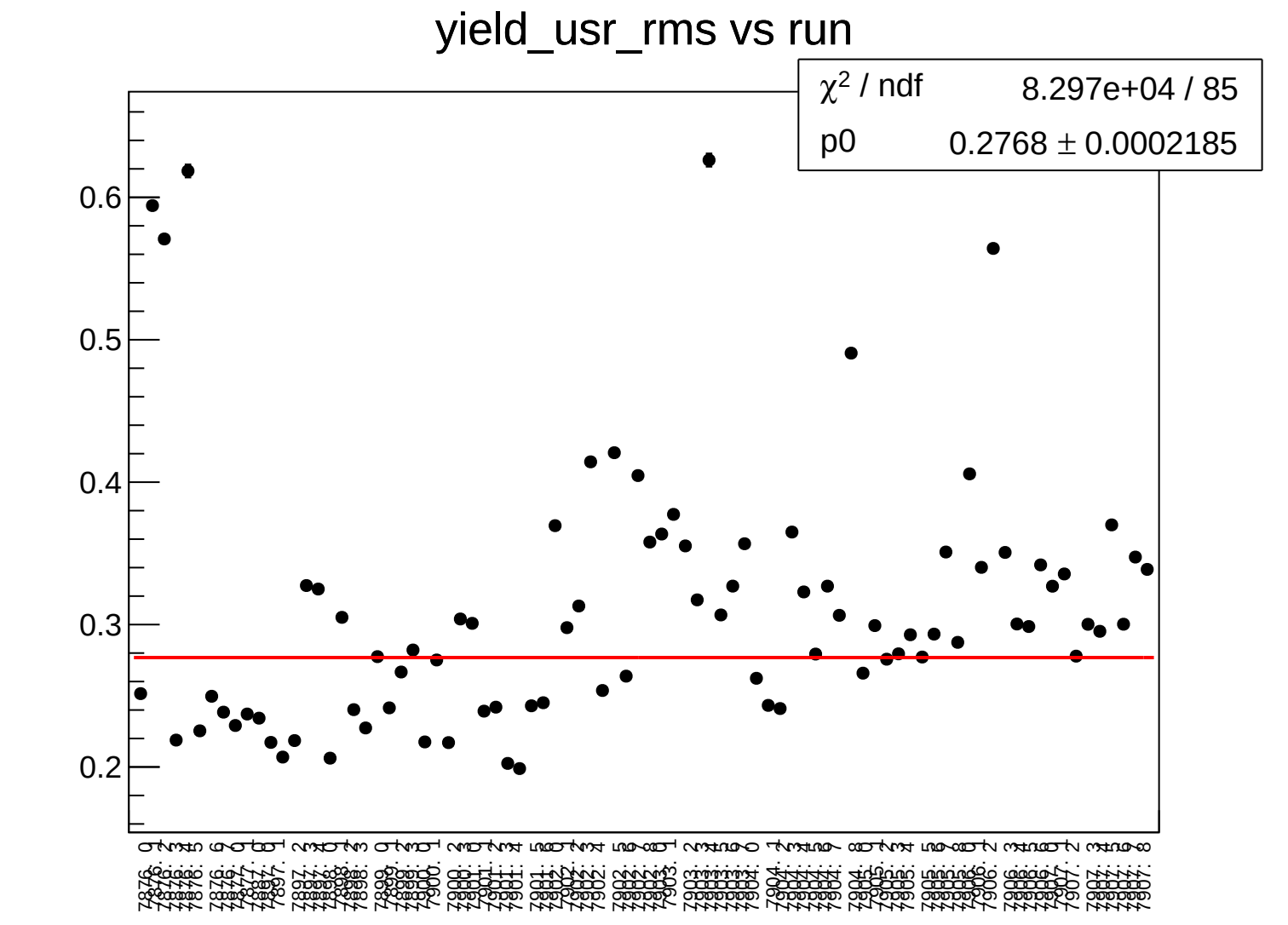

yield_usl_mean vs run
χ² / ndf 3.122e+06 / 85
p0 33.6 ± 0.0001908
pull
Entries 86
Mean 175.9
Std Dev 0

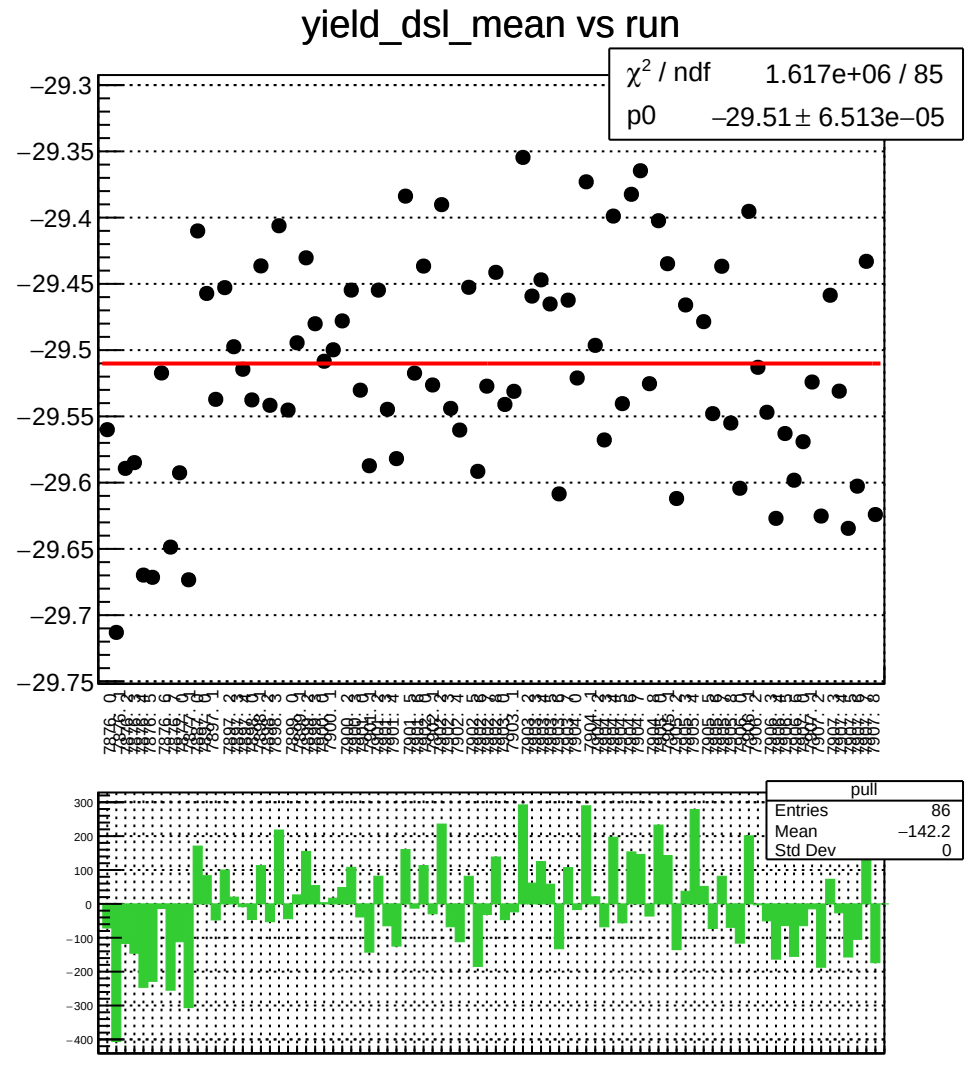

pull1D
Entries 86
Mean 3.467
Std Dev 0

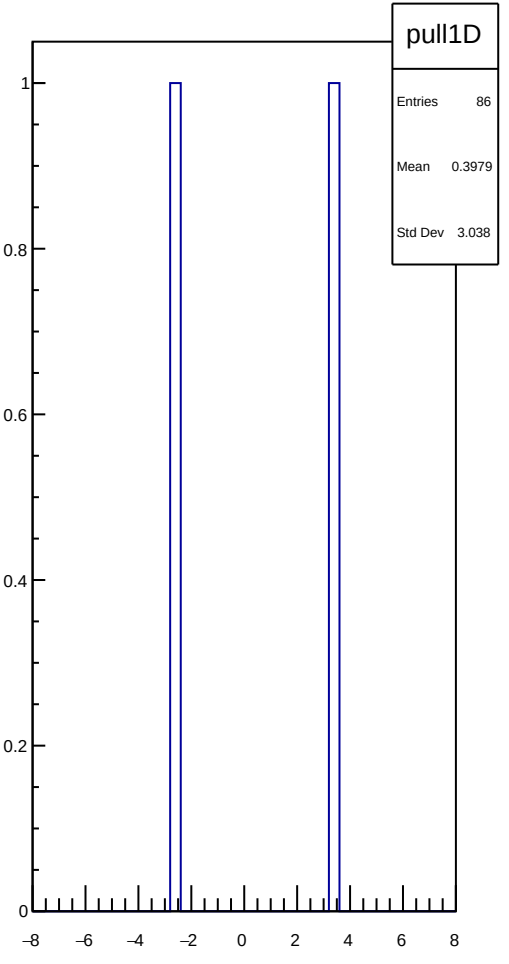

yield_usl_rms vs run
χ² / ndf 1.008e+05 / 85
p0 0.1699 ± 0.0001349
0.6
0.5
0.4
0.3
0.2
0.1

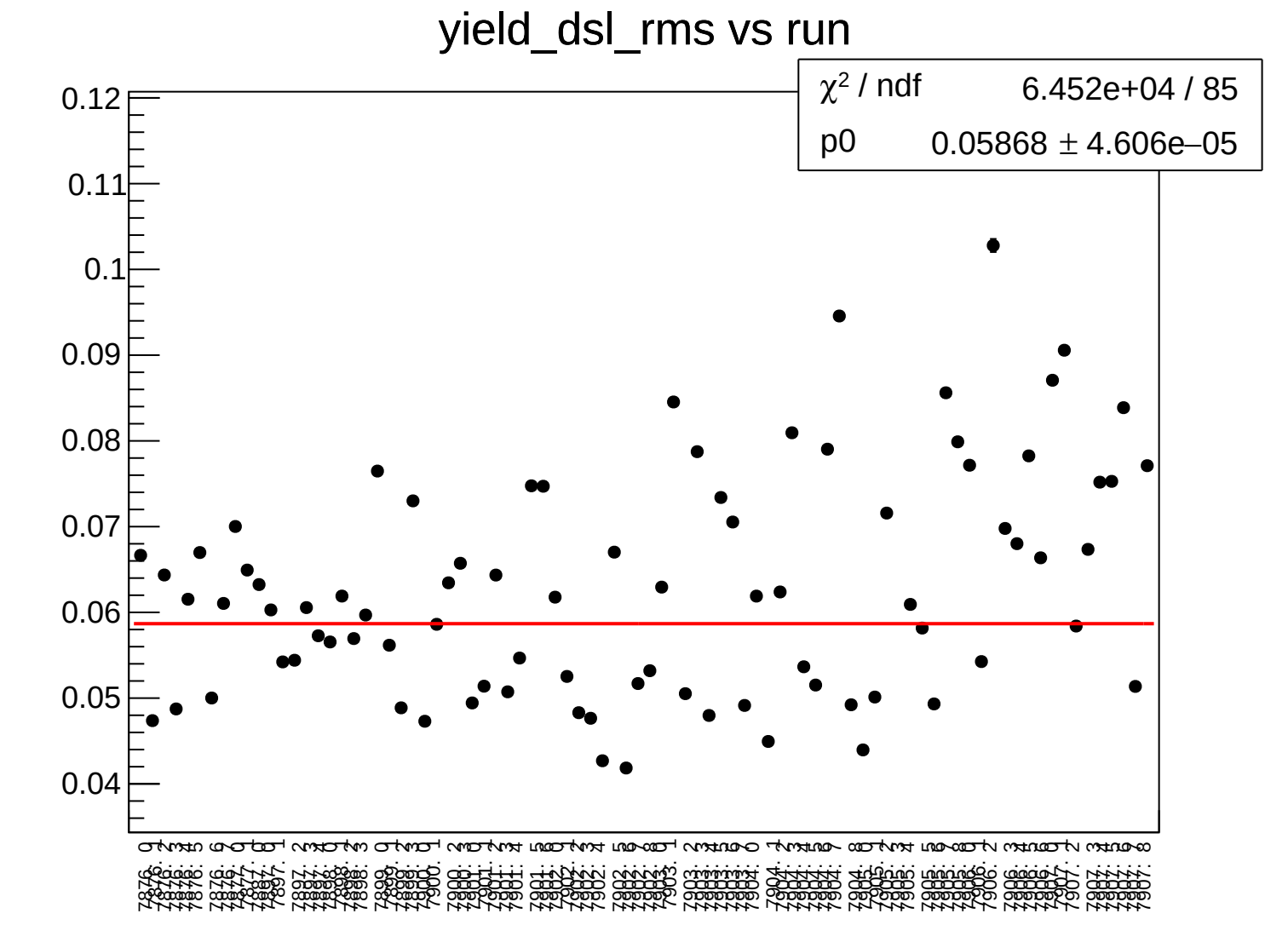

yield_usr_mean vs run
χ² / ndf 1.344e+06 / 85
p0 34.06 ± 0.000309
34.5
34
33.5
33
32.5
pull
Entries 86
Mean 141.2
Std Dev 0
300
200
100
0
−100
−200
−300
−400

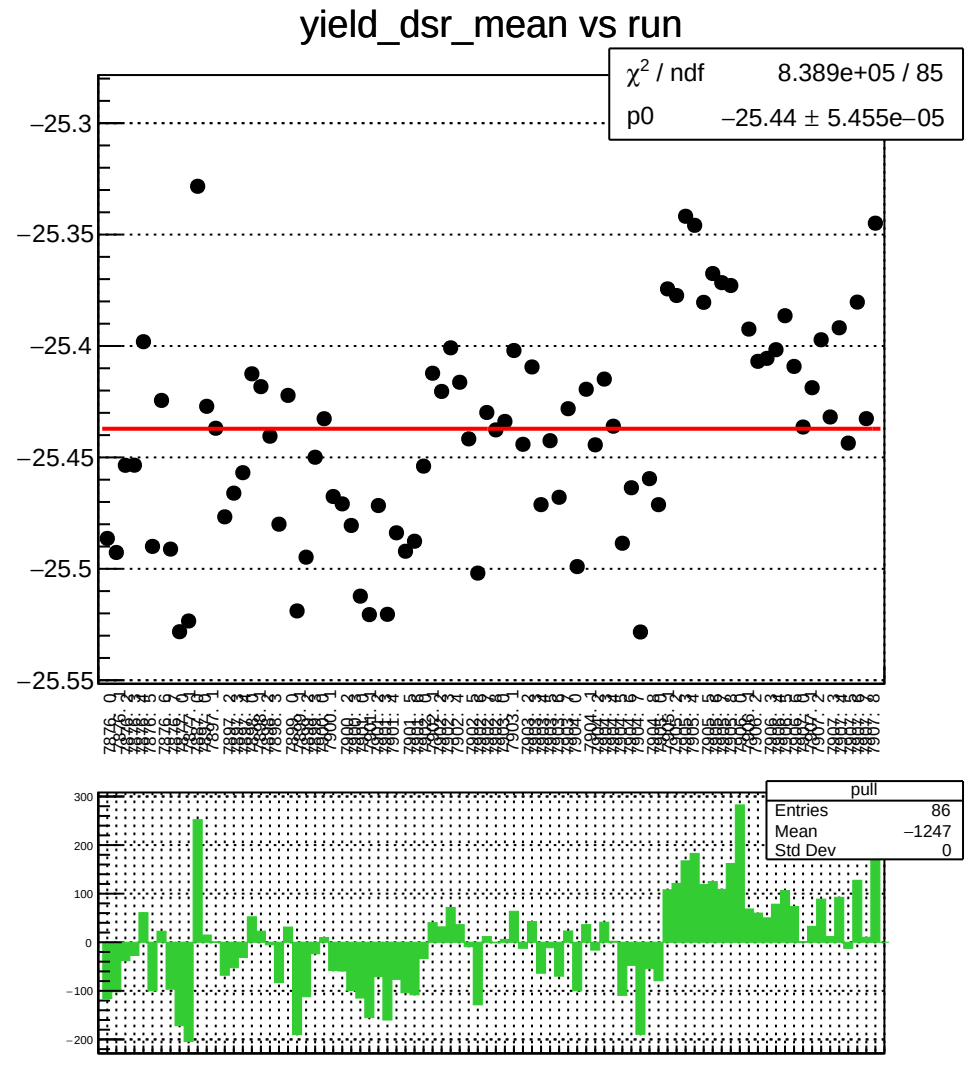

pull1D
Entries 86
Mean 2.539
Std Dev 3.033
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

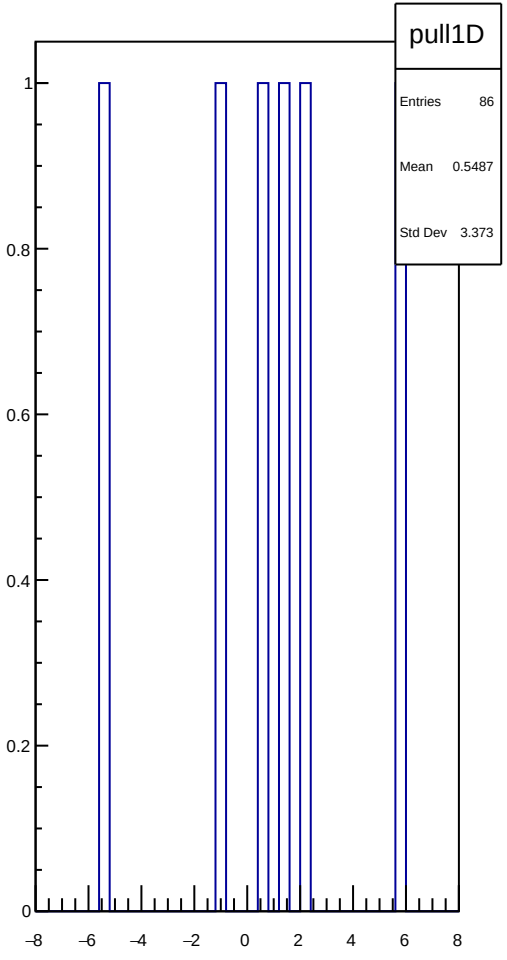

yield_usr_rms vs run
χ² / ndf 8.297e+04 / 85
p0 0.2768 ± 0.0002185
0.6
0.5
0.4
0.3
0.2

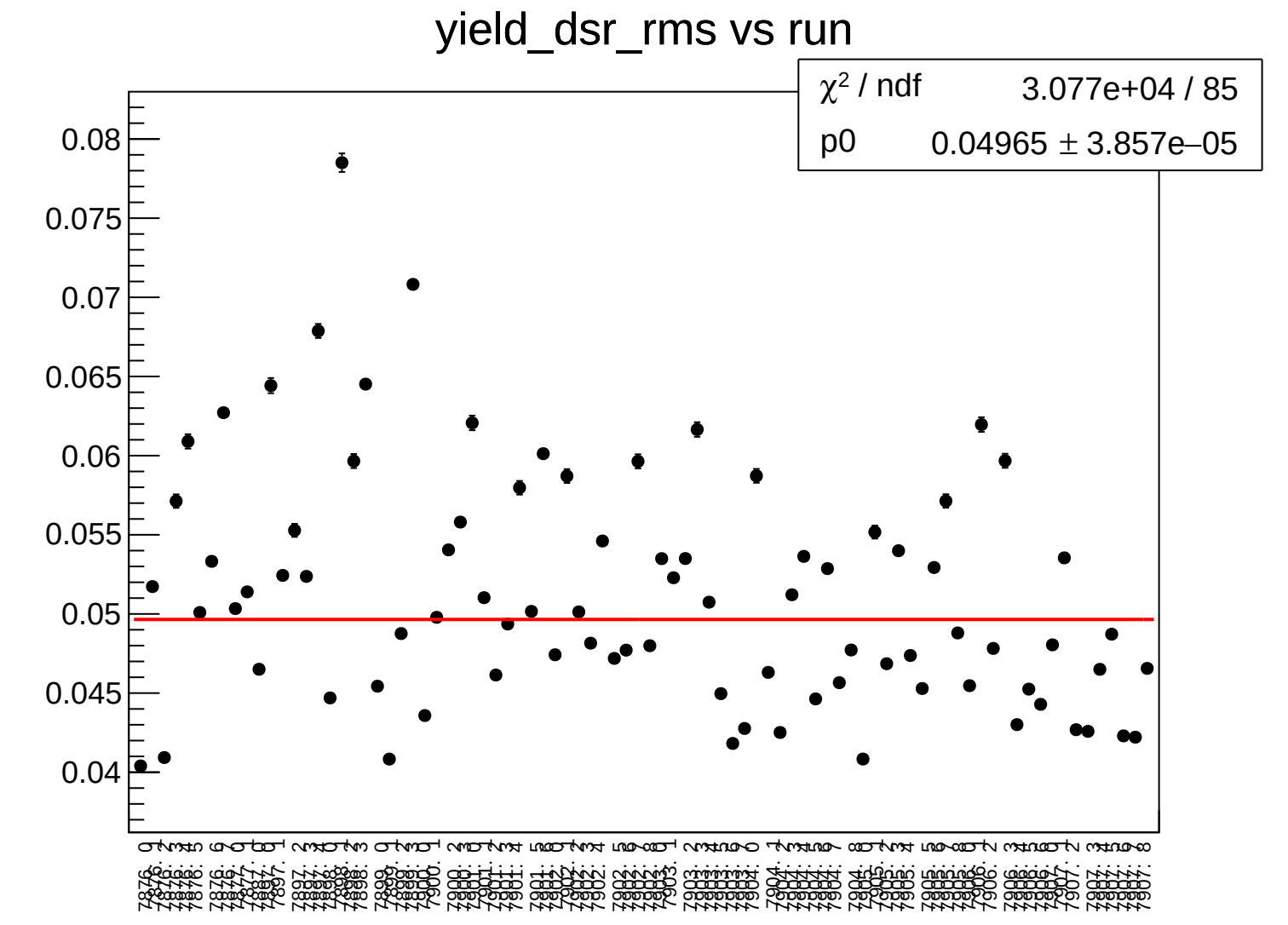

yield_dsl_mean vs run
χ² / ndf 1.617e+06 / 85
p0 −29.51 ± 6.513e−05
−29.3
−29.35
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
−29.7
−29.75
pull
Entries 86
Mean −142.2
Std Dev 0
300
200
100
0
−100
−200
−300
−400

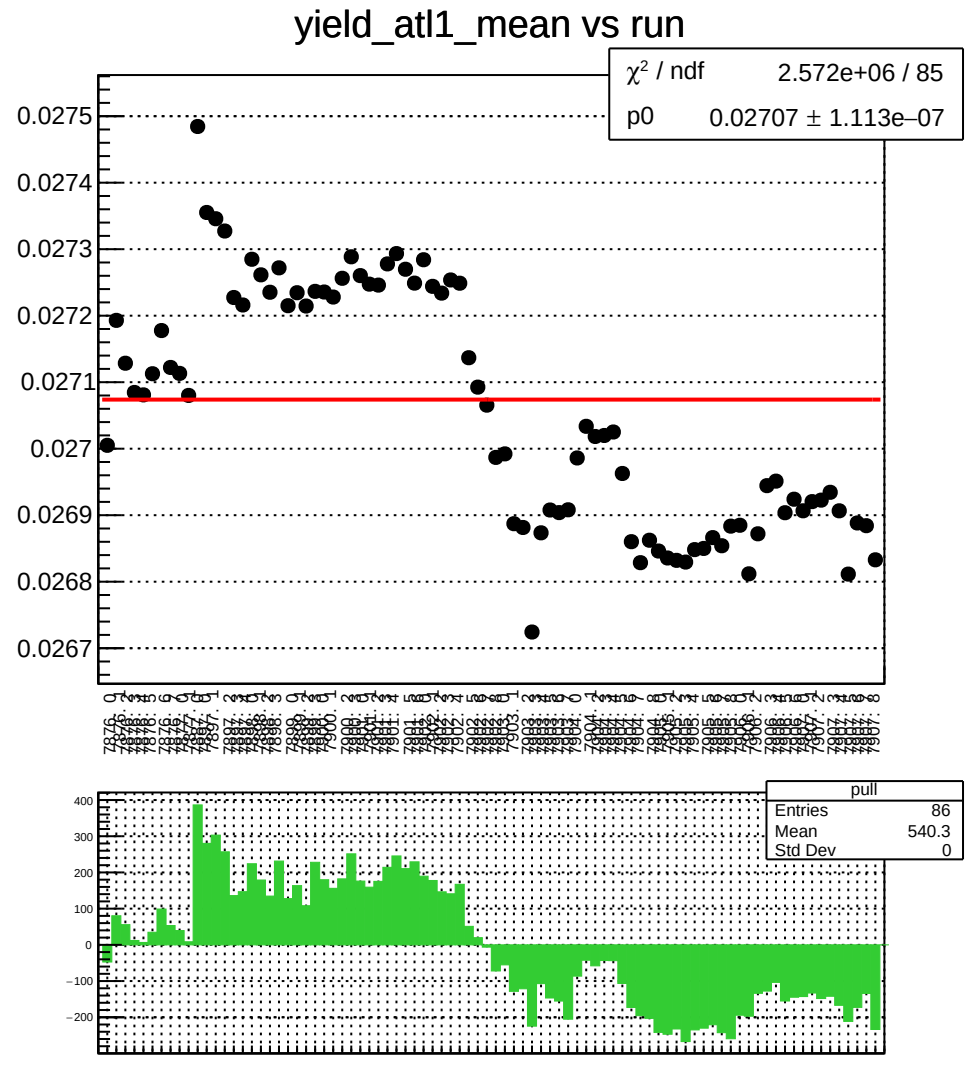

pull1D
Entries 86
Mean 0.3979
Std Dev 3.038
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

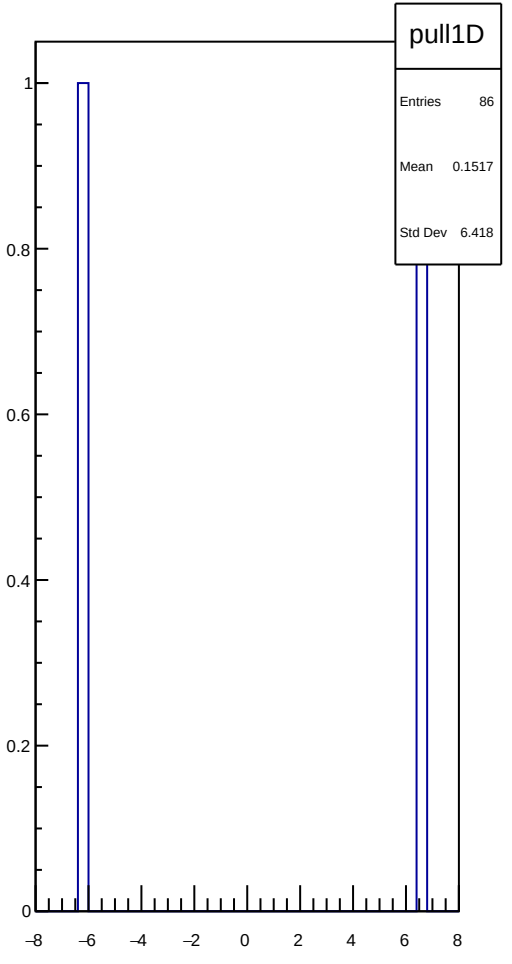

yield_dsl_rms vs run
χ² / ndf 6.452e+04 / 85
p0 0.05868 ± 4.606e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

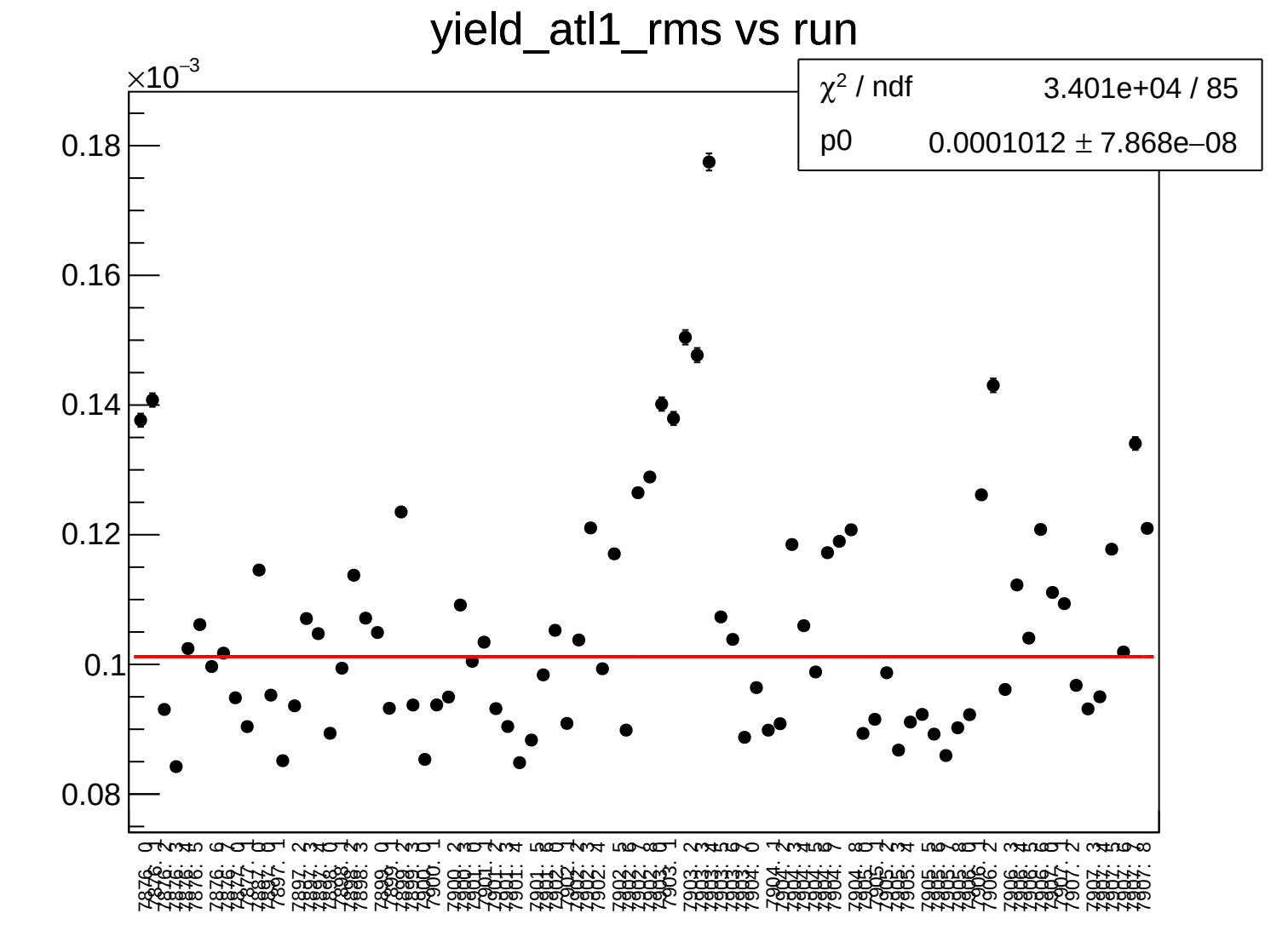

yield_dsr_mean vs run
χ² / ndf 8.389e+05 / 85
p0 −25.44 ± 5.455e−05
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 86
Mean −1247
Std Dev 0
300
200
100
0
−100
−200

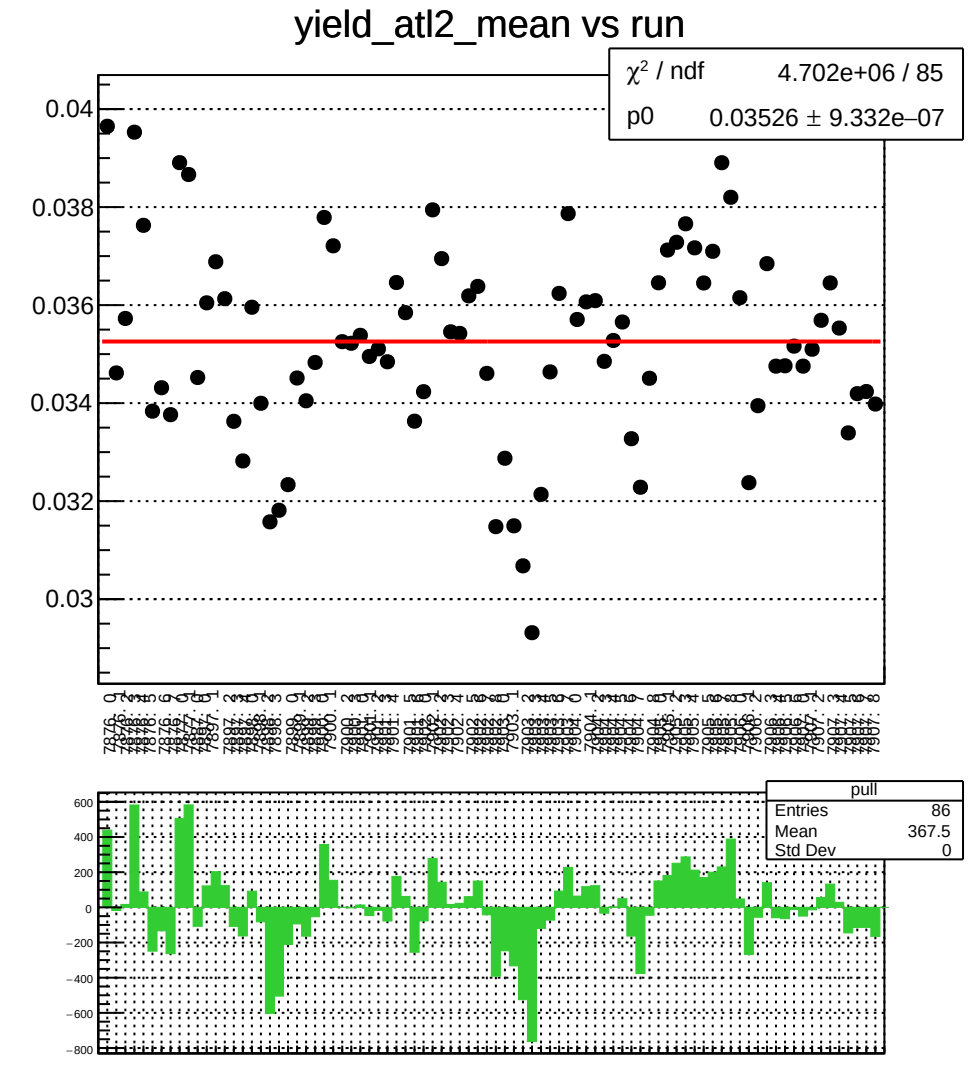

pull1D
Entries 86
Mean 0.5487
Std Dev 3.373
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

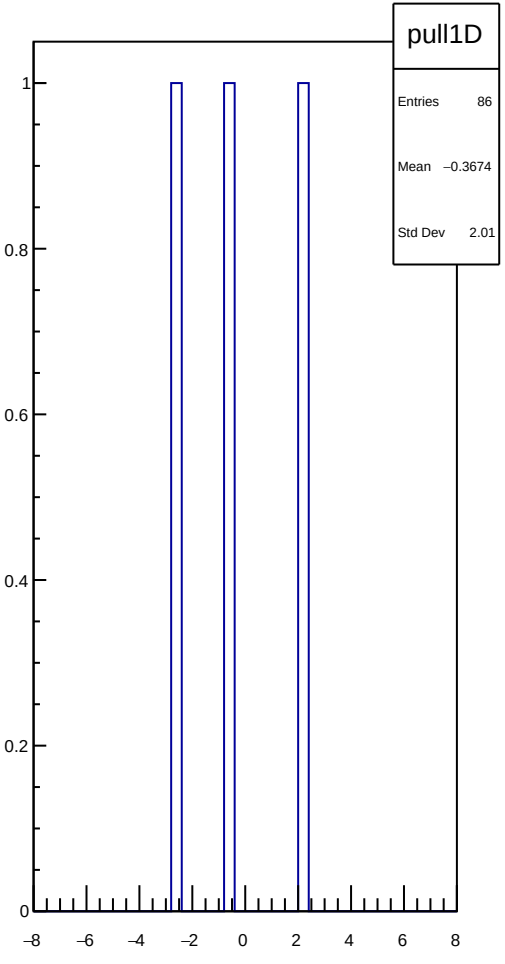

yield_dsr_rms vs run
χ² / ndf 3.077e+04 / 85
p0 0.04965 ± 3.857e−05
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

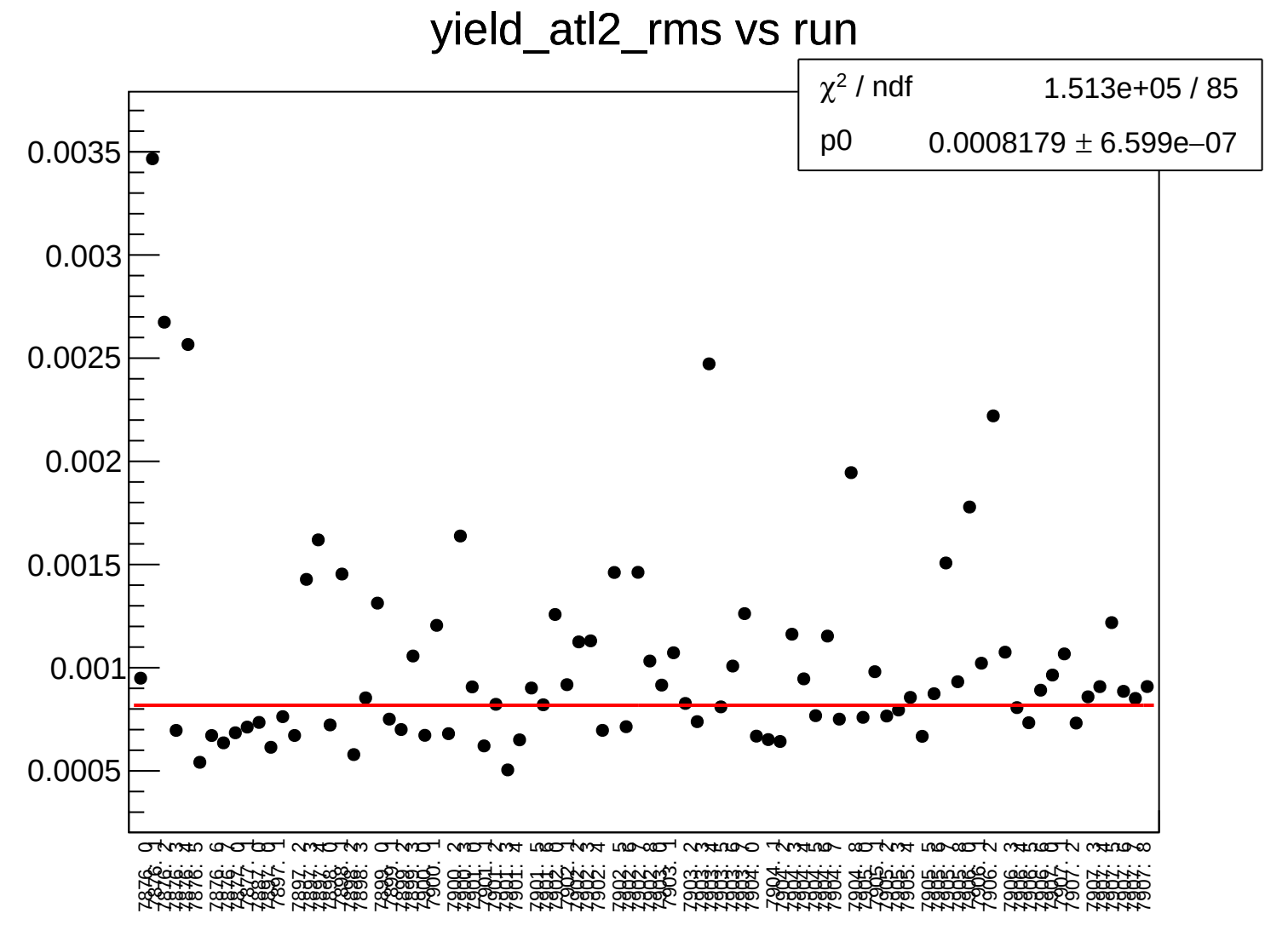

yield_atl1_mean vs run
χ² / ndf 2.572e+06 / 85
p0 0.02707 ± 1.113e−07
0.0275
0.0274
0.0273
0.0272
0.0271
0.027
0.0269
0.0268
0.0267
pull
Entries 86
Mean 540.3
Std Dev 0
400
300
200
100
0
−100
−200

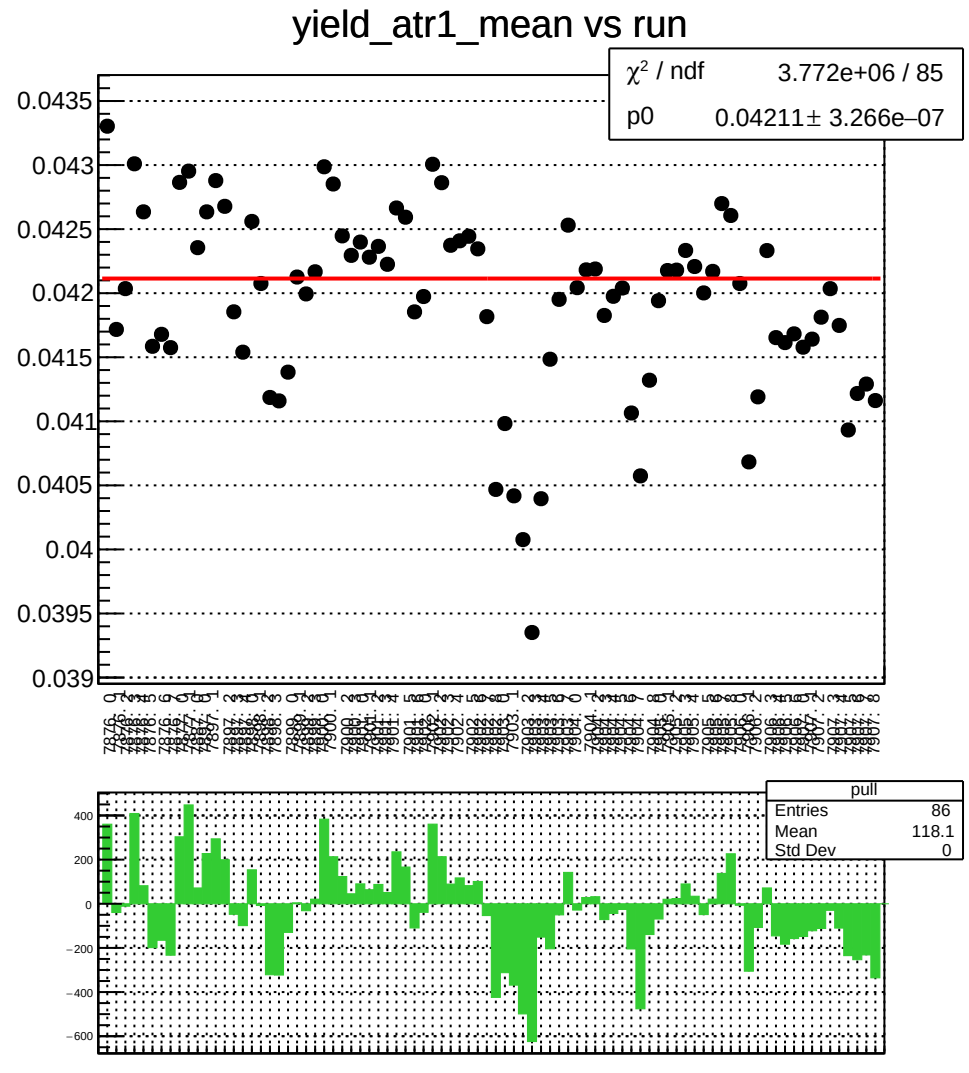

pull1D
Entries 86
Mean 0.1517
Std Dev 6.418
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

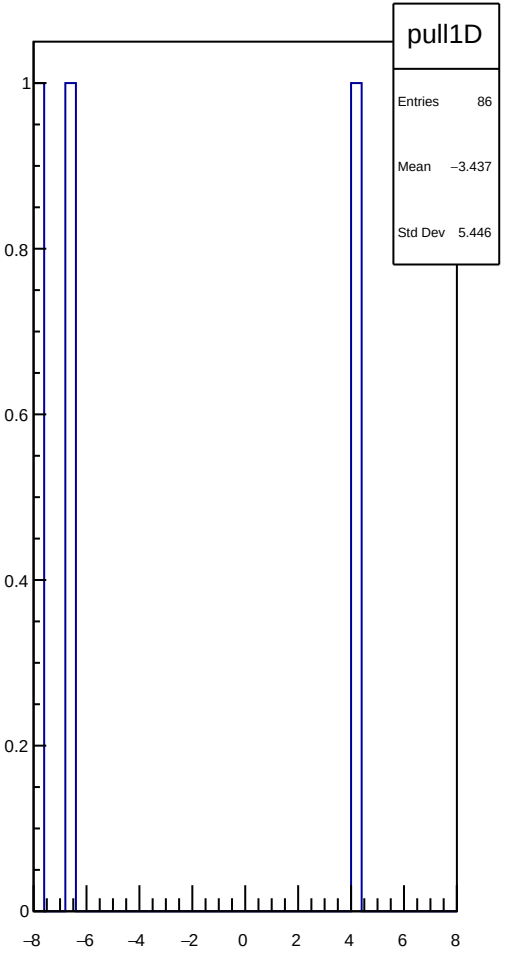

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3.401e+04 / 85
p0 0.0001012 ± 7.868e−08
0.18
0.16
0.14
0.12
0.1
0.08

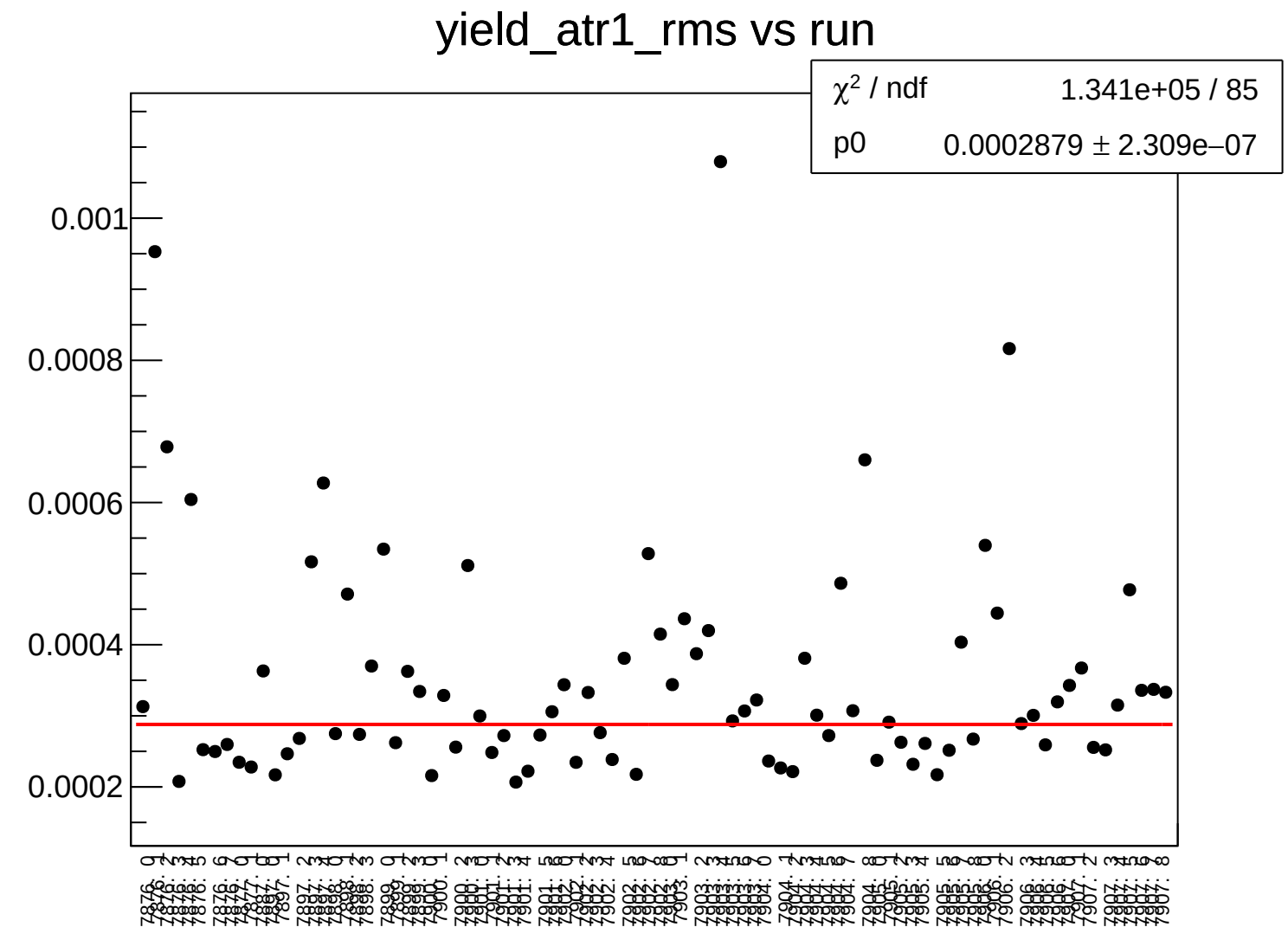

yield_atl2_mean vs run
χ² / ndf 4.702e+06 / 85
p0 0.03526 ± 9.332e−07
0.04
0.038
0.036
0.034
0.032
0.03
pull
Entries 86
Mean 367.5
Std Dev 0
600
400
200
0
−200
−400
−600
−800

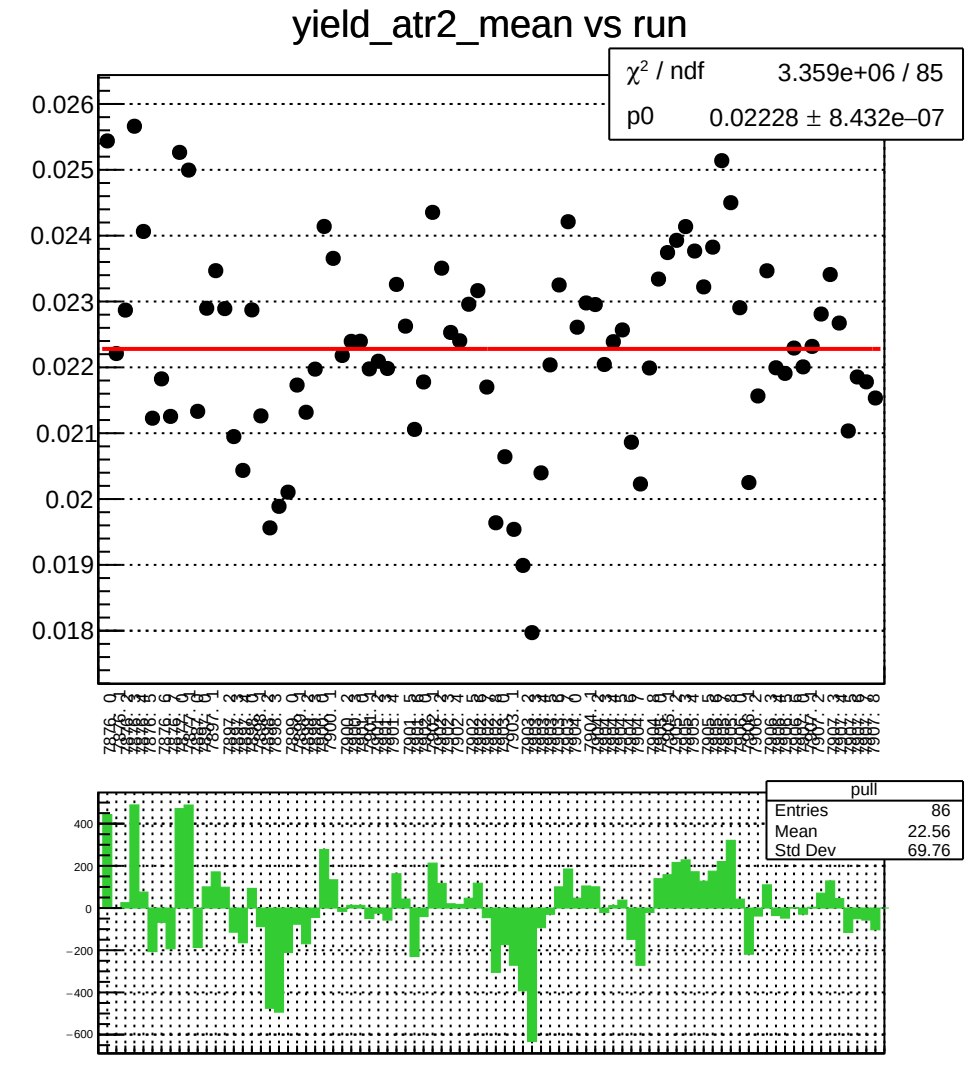

pull1D
Entries 86
Mean −0.3674
Std Dev 2.01
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

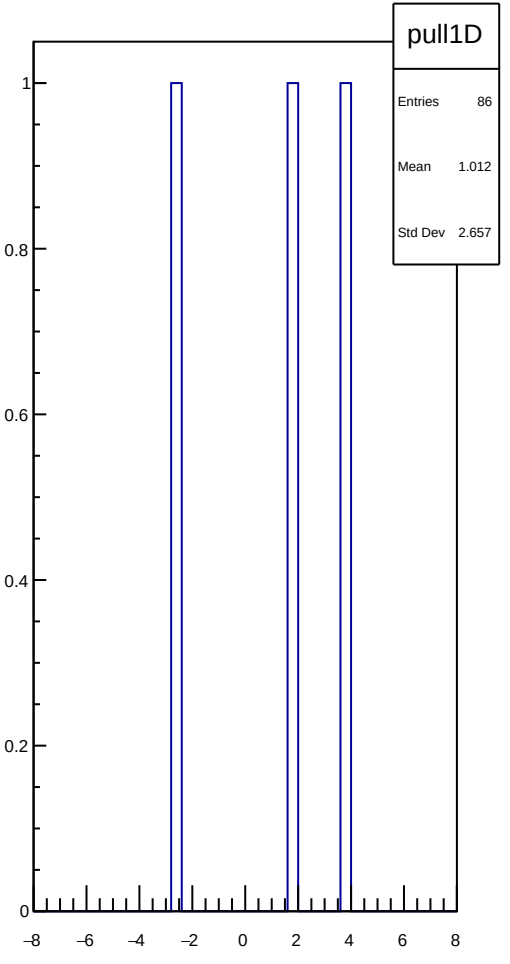

yield_atl2_rms vs run
χ² / ndf 1.513e+05 / 85
p0 0.0008179 ± 6.599e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

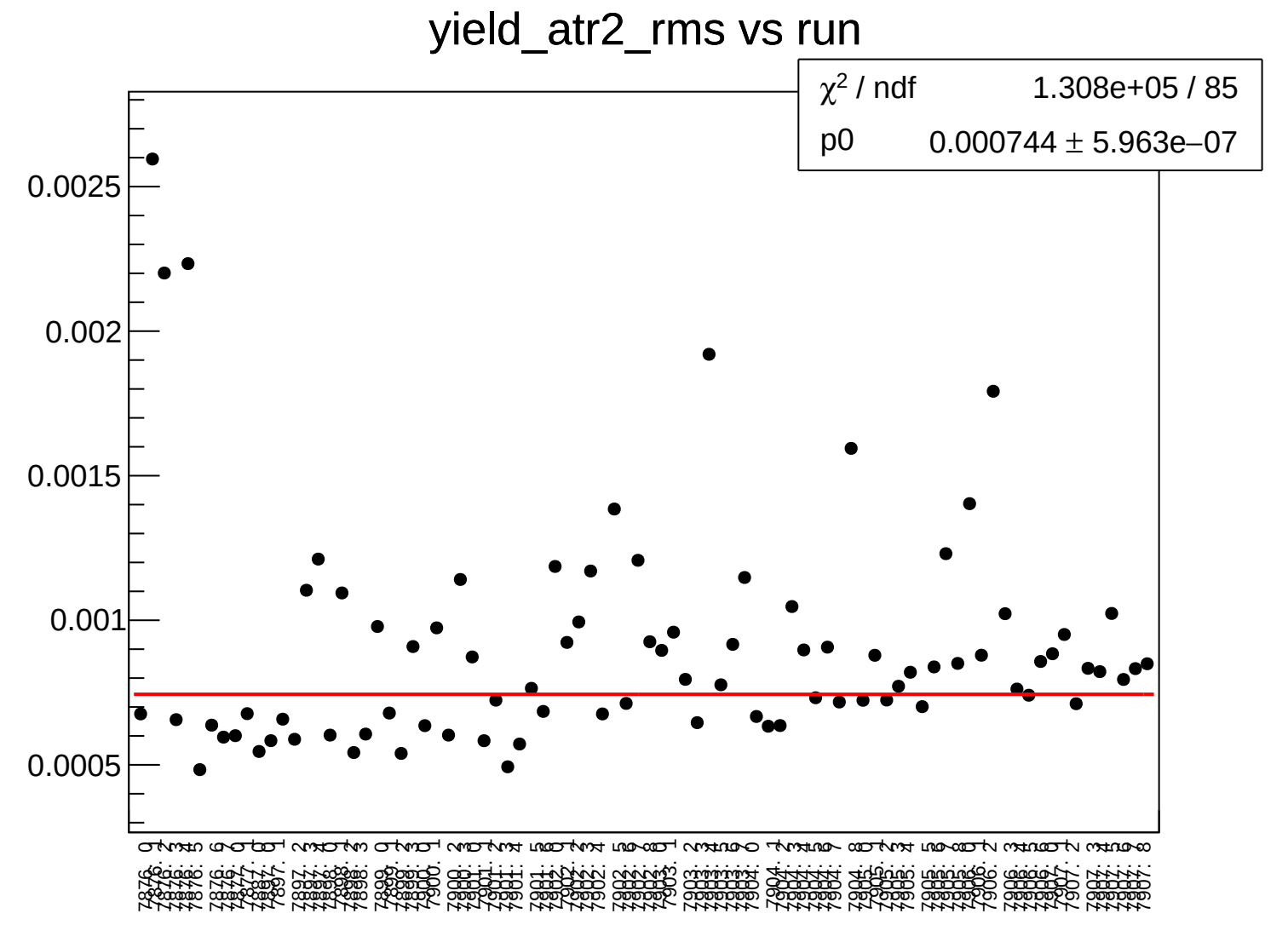

yield_atr1_mean vs run
χ² / ndf 3.772e+06 / 85
p0 0.04211± 3.266e−07
0.0435
0.043
0.0425
0.042
0.0415
0.041
0.0405
0.04
0.0395
0.039
pull
Entries 86
Mean 118.1
Std Dev 0
400
200
0
−200
−400
−600

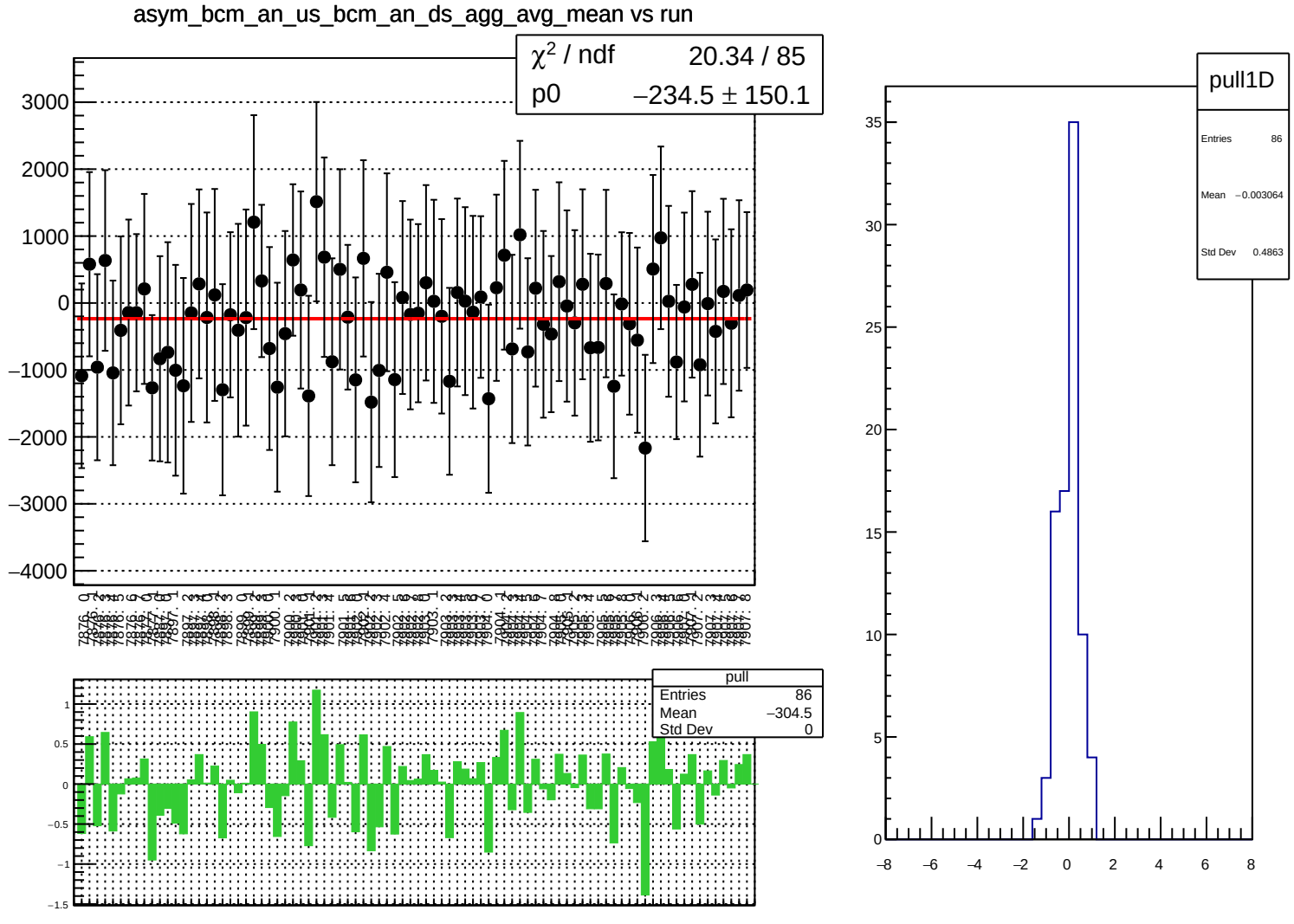

pull1D
Entries 86
Mean −3.437
Std Dev 5.446
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

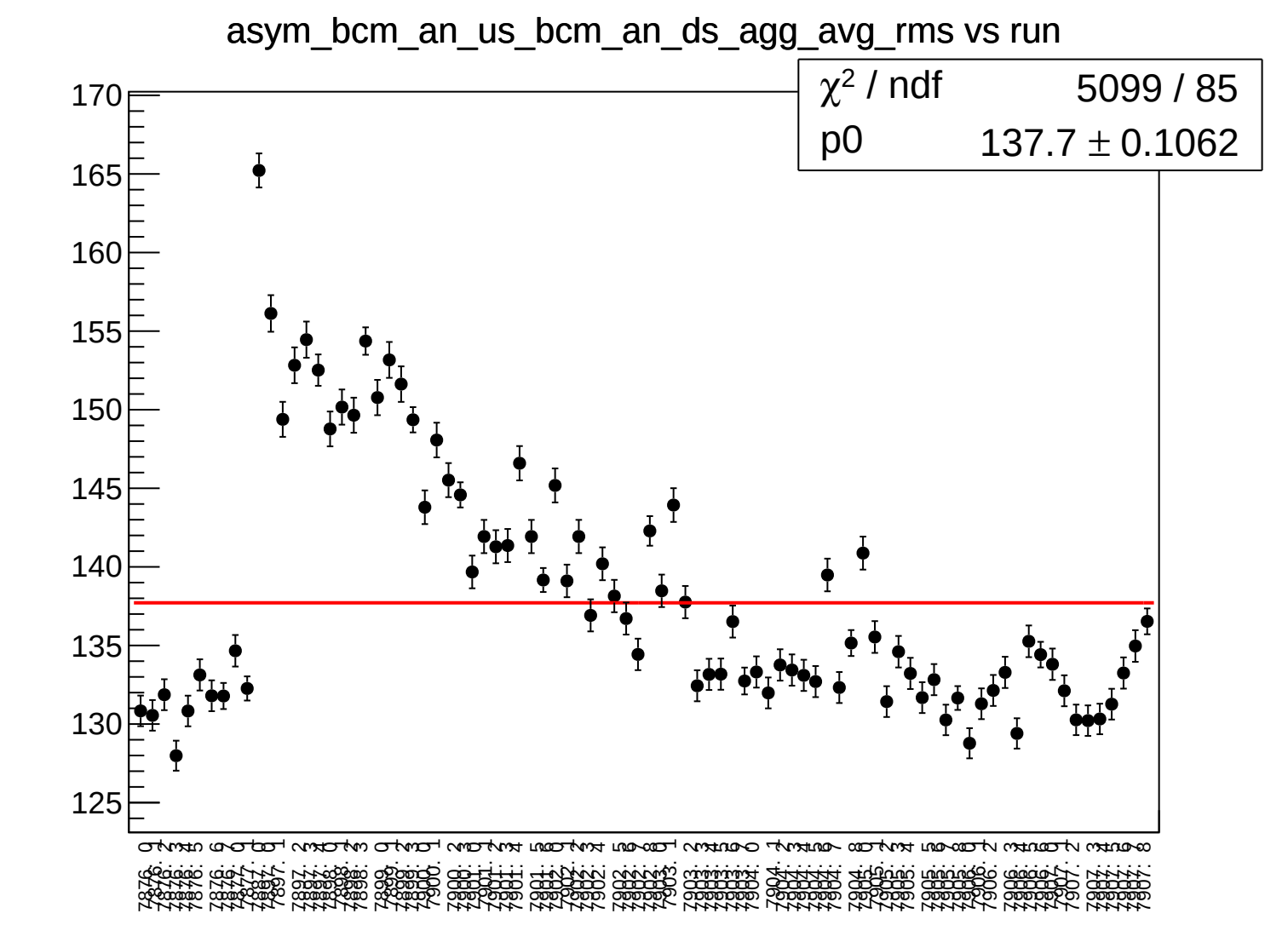

yield_atr1_rms vs run
χ² / ndf 1.341e+05 / 85
p0 0.0002879 ± 2.309e−07
0.001
0.0008
0.0006
0.0004
0.0002

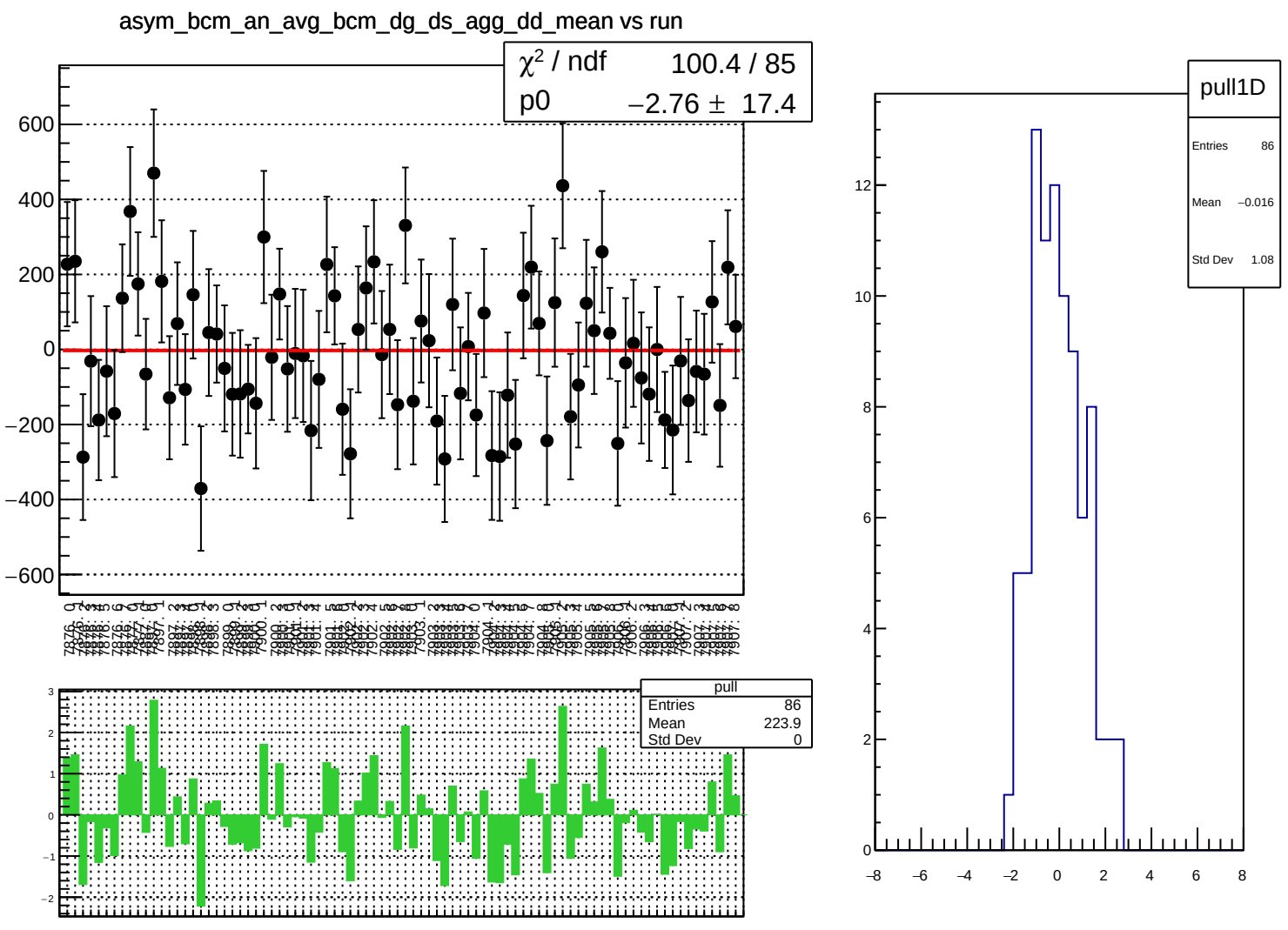

yield_atr2_mean vs run
χ² / ndf 3.359e+06 / 85
p0 0.02228 ± 8.432e−07
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
pull
Entries 86
Mean 22.56
Std Dev 69.76
400
200
0
−200
−400
−600

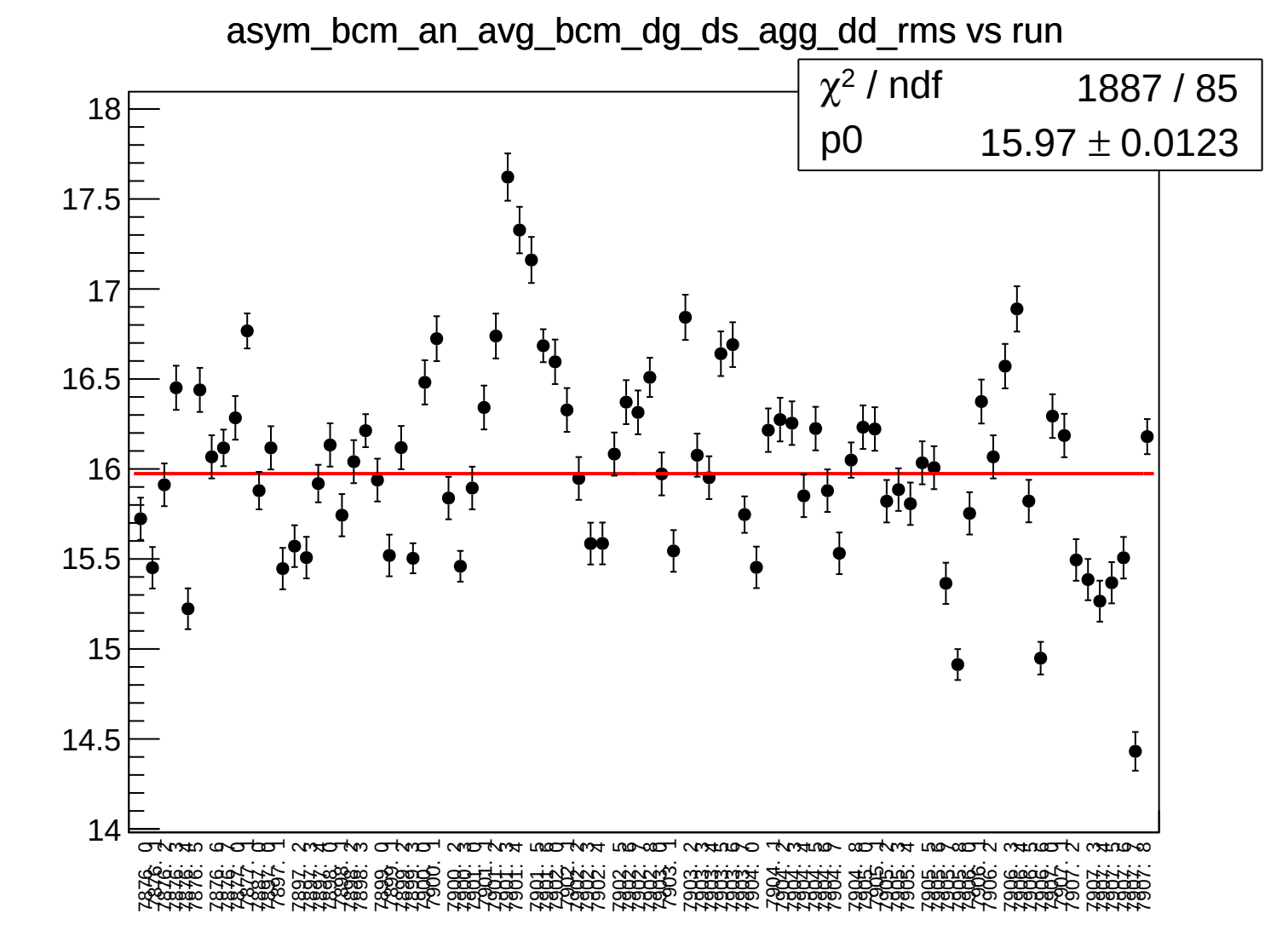

pull1D
Entries 86
Mean 1.012
Std Dev 2.657
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

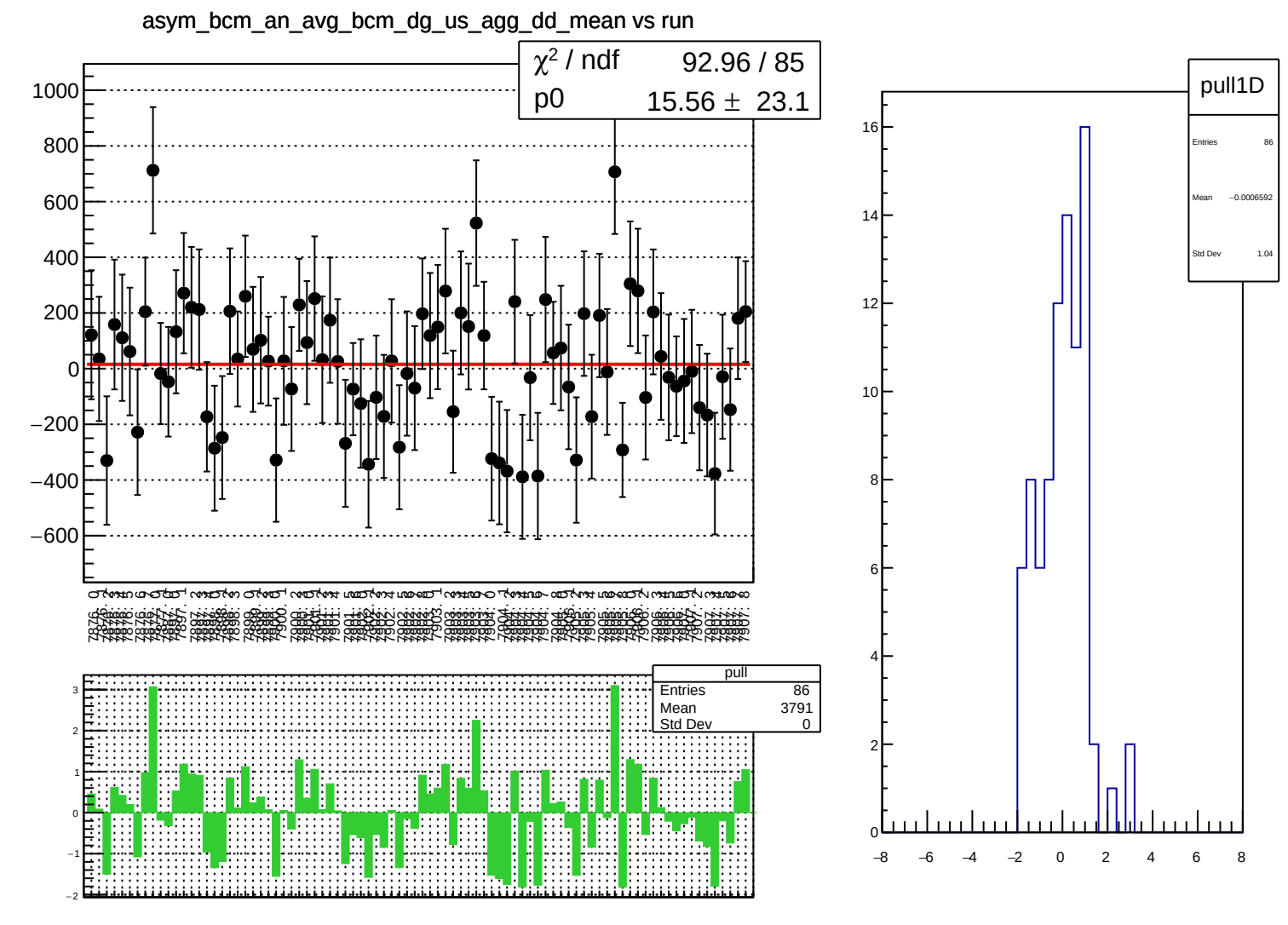

yield_atr2_rms vs run
χ² / ndf 1.308e+05 / 85
p0 0.000744 ± 5.963e−07
0.0025
0.002
0.0015
0.001
0.0005

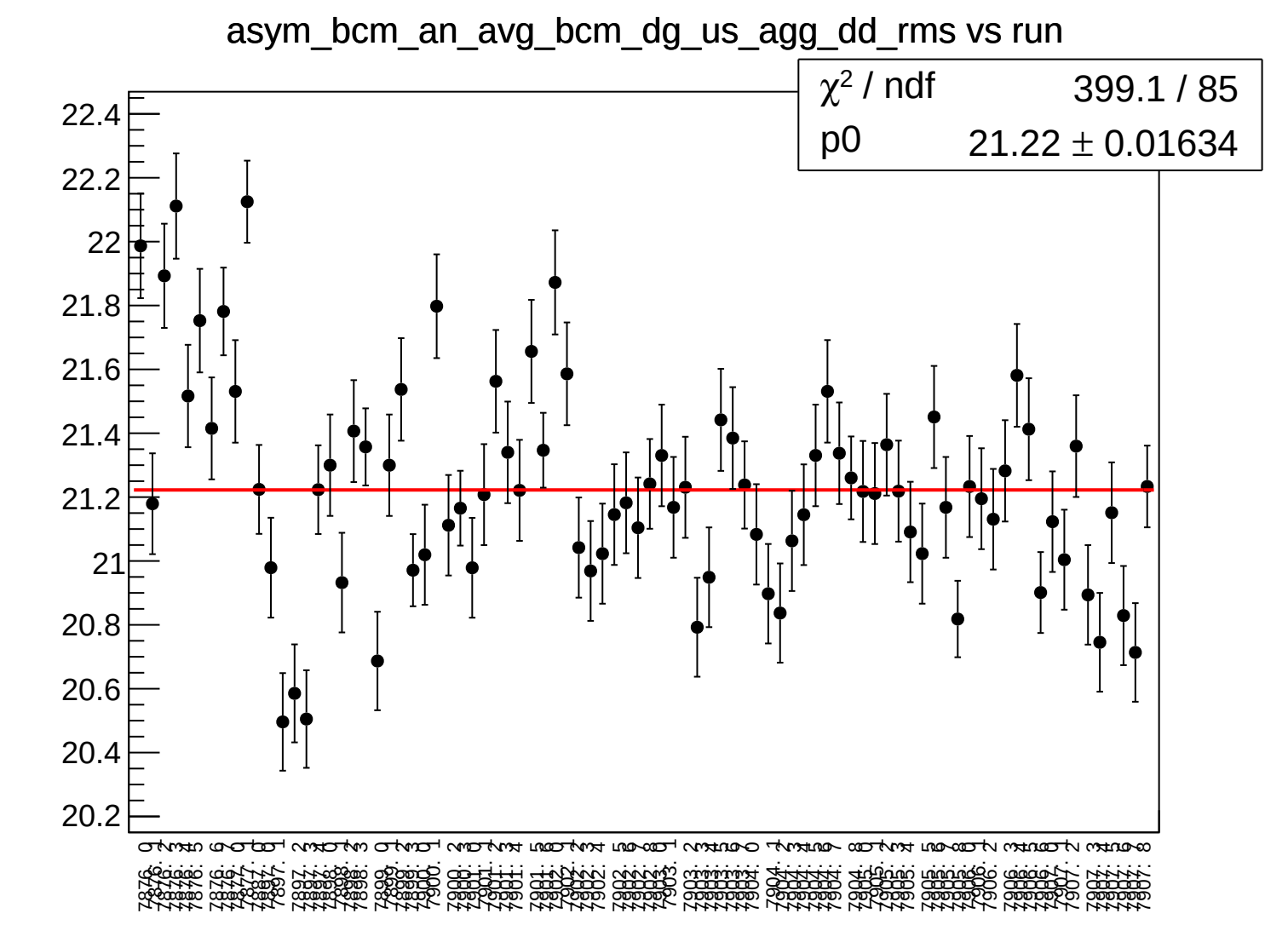

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.34 / 85
p0 −234.5 ± 150.1
pull
Entries 86
Mean −304.5
Std Dev 0
pull1D
Entries 86
Mean −0.003064
Std Dev 0.4863

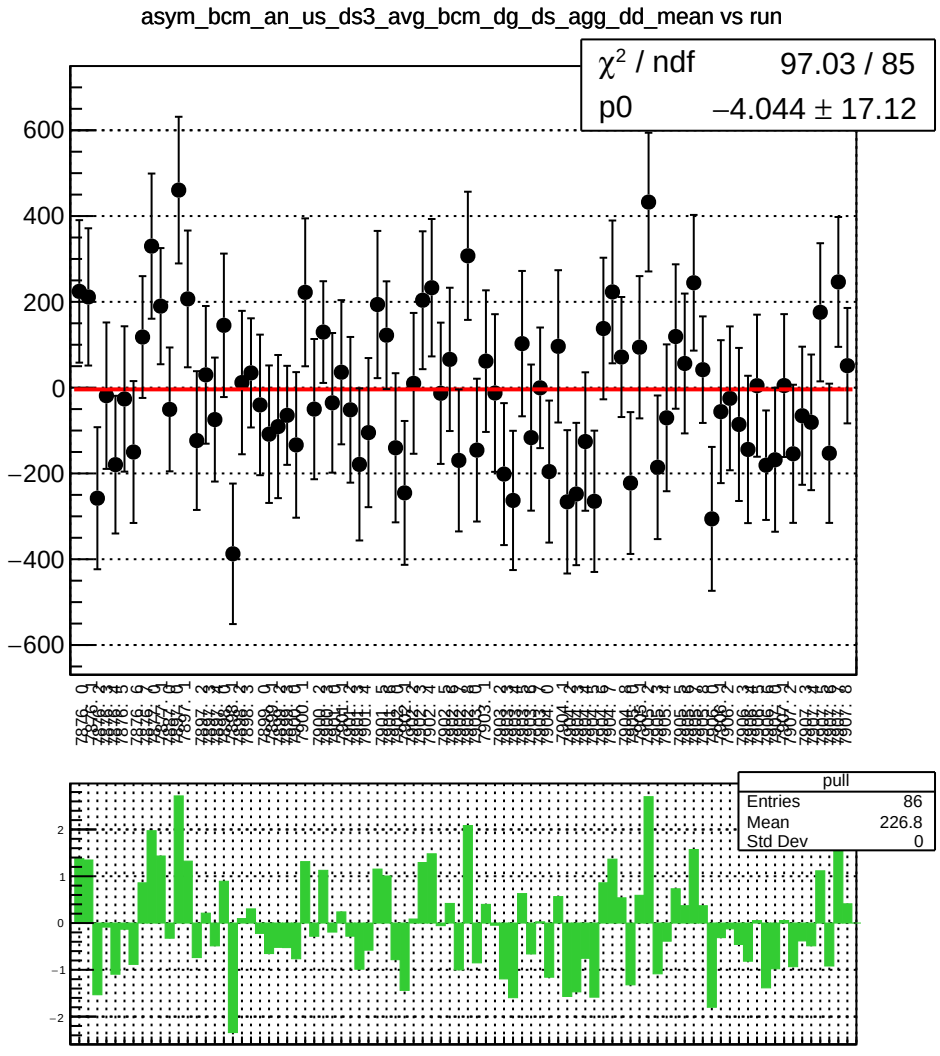

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5099 / 85
p0 137.7 ± 0.1062
170
165
160
155
150
145
140
135
130
125

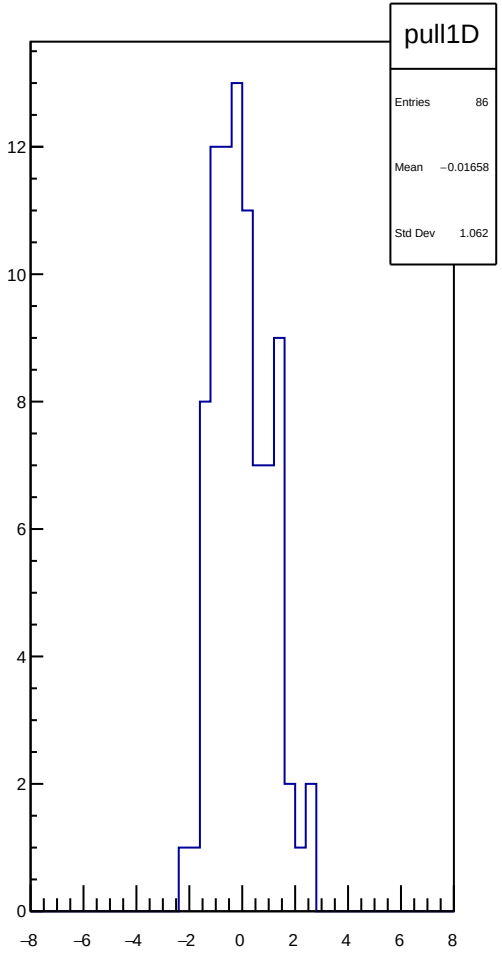

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 100.4 / 85
p0 −2.76 ± 17.4
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean 223.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.016
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

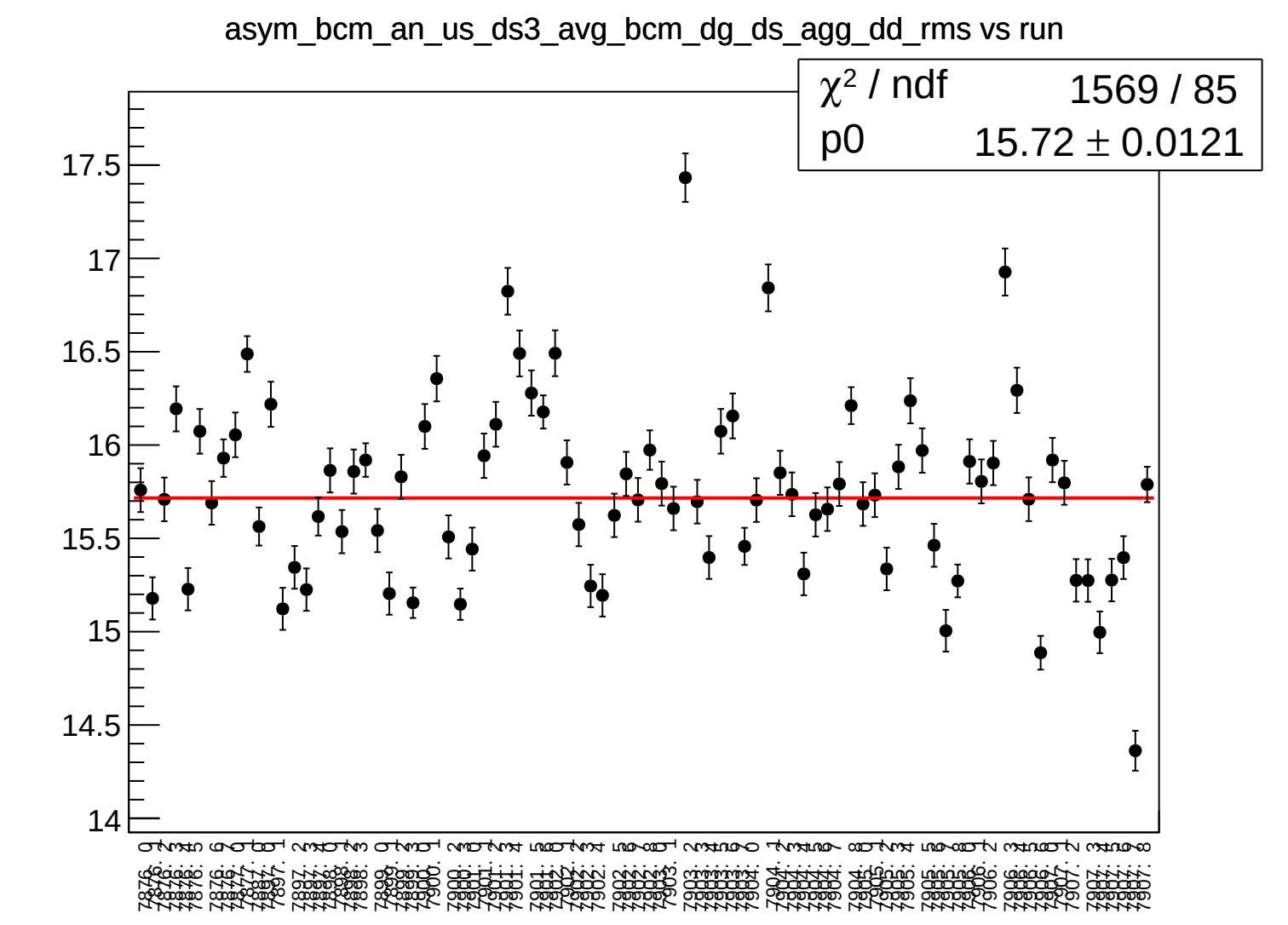

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1887 / 85
p0 15.97 ± 0.0123
18
17.5
17
16.5
16
15.5
15
14.5
14

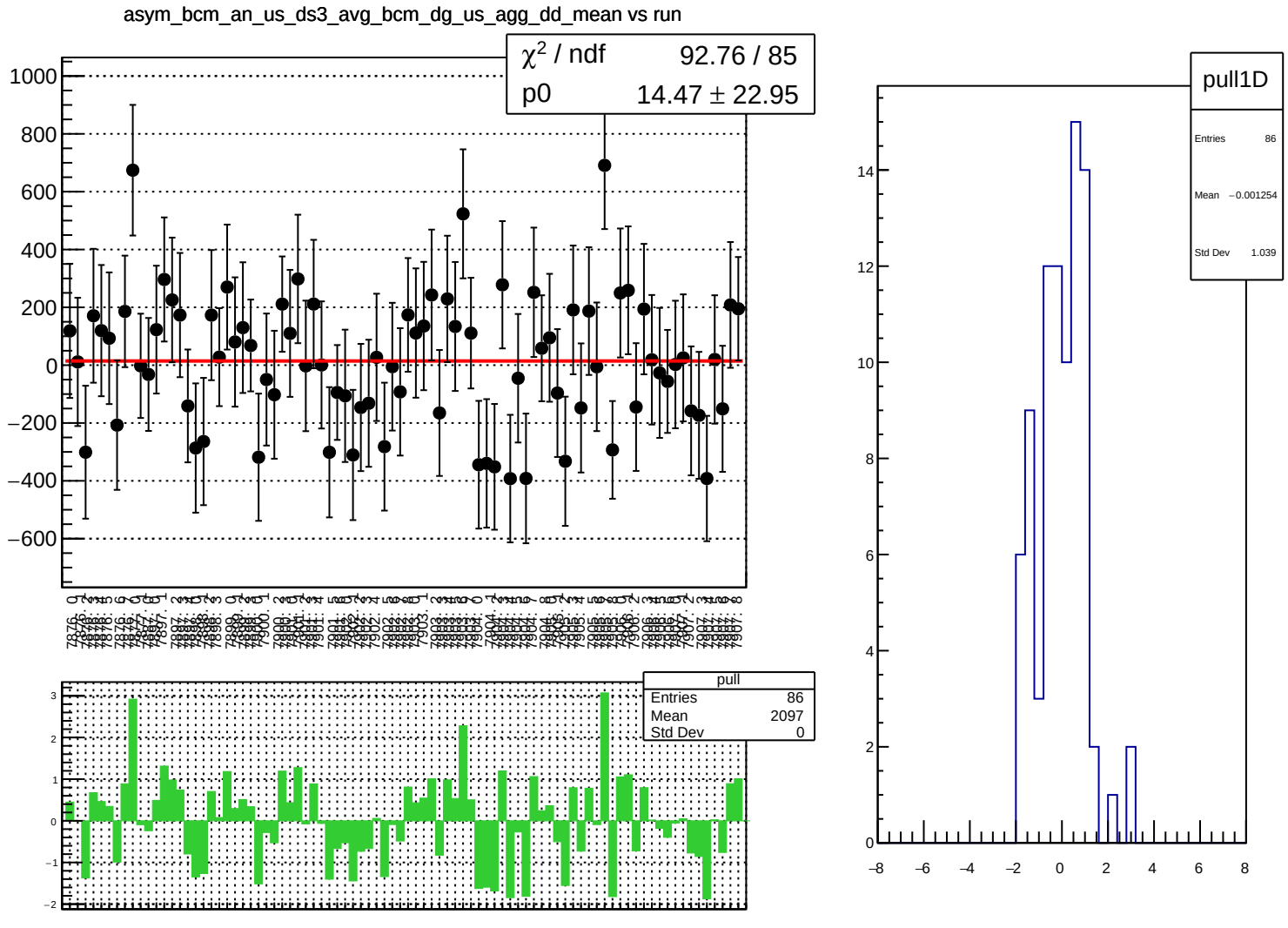

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 92.96 / 85
p0 15.56 ± 23.1
pull
Entries 86
Mean 3791
Std Dev 0
pull1D
Entries 86
Mean −0.0006592
Std Dev 1.04

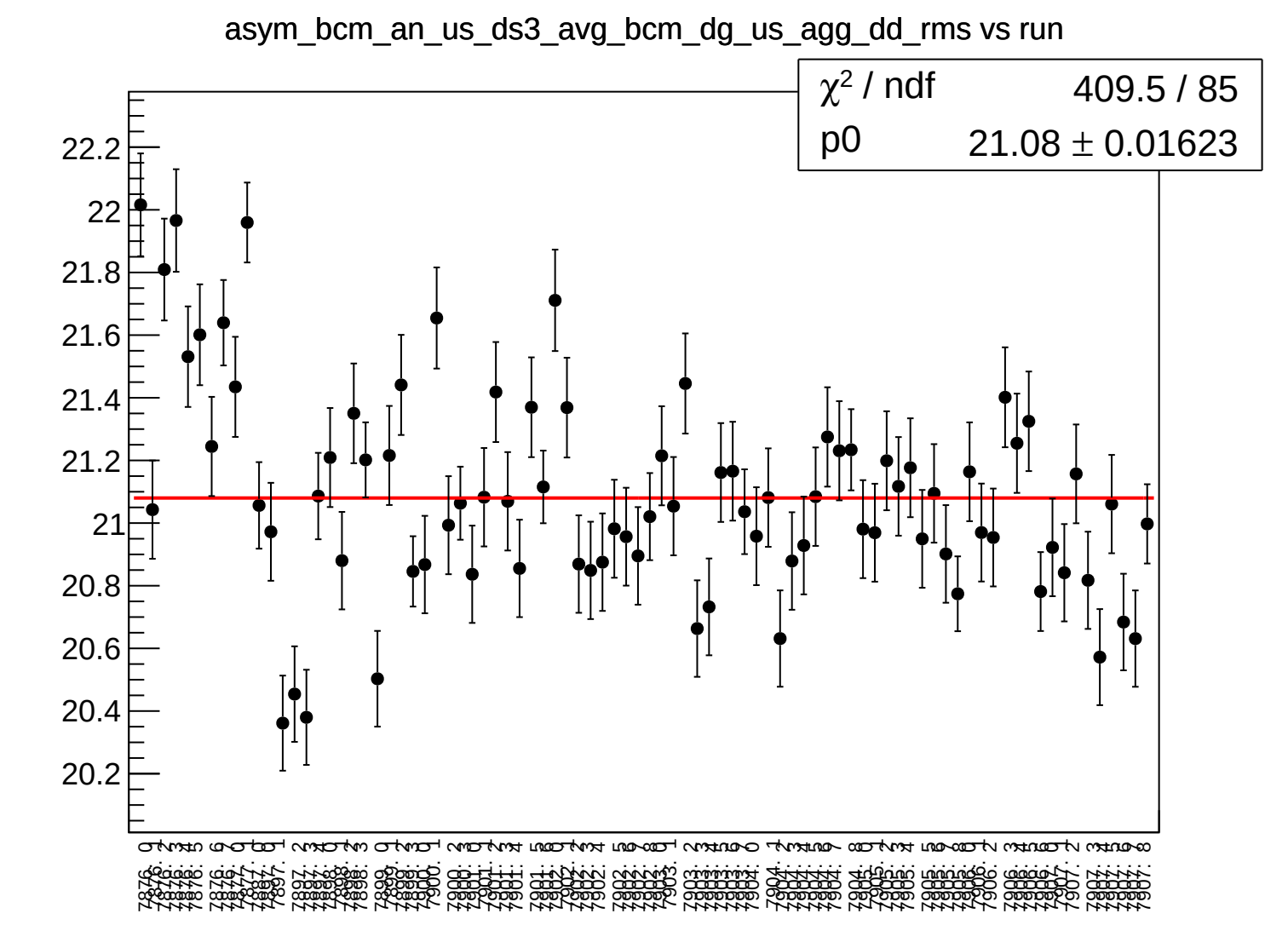

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 399.1 / 85
p0 21.22 ± 0.01634
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

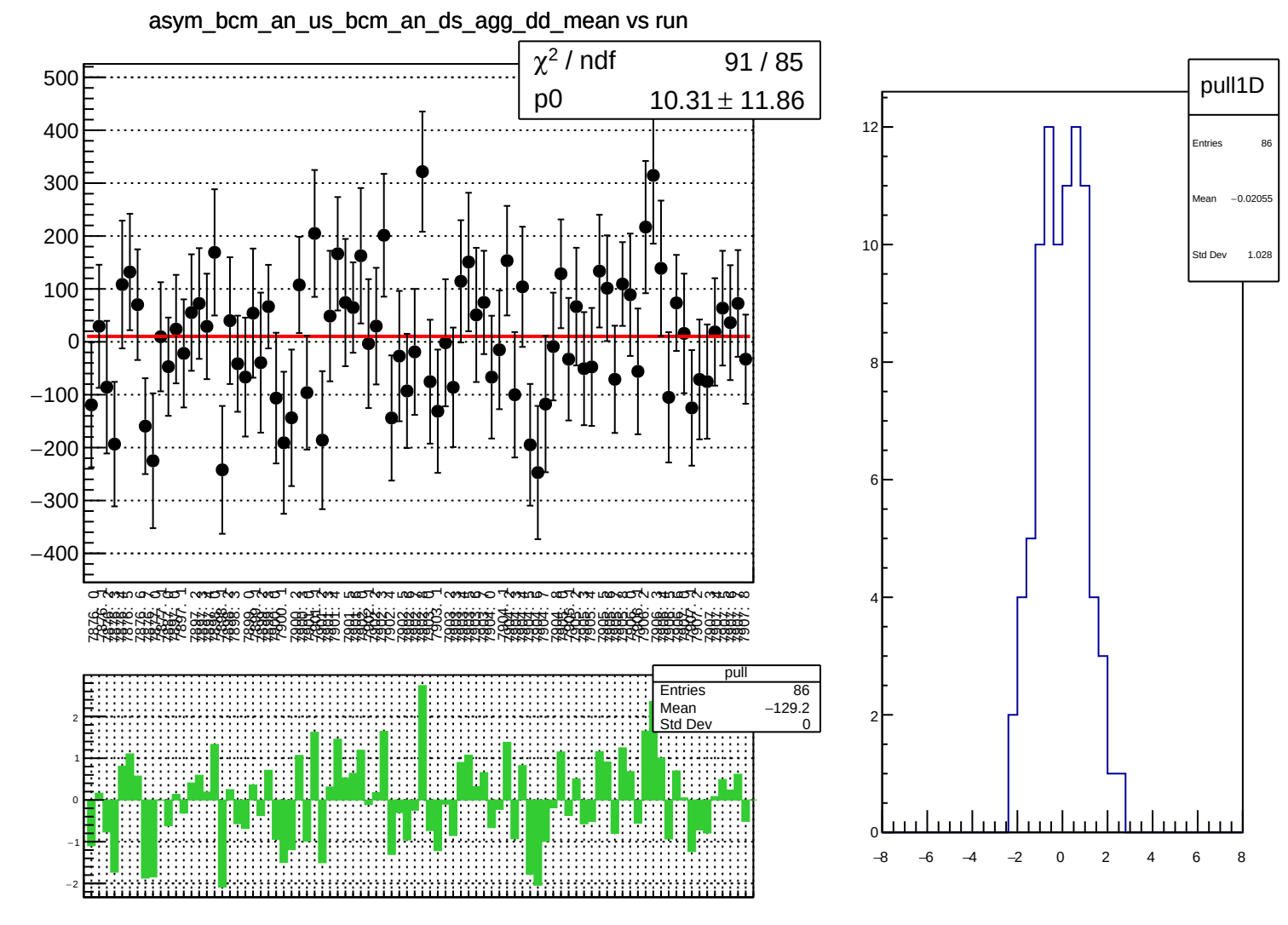

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 97.03 / 85
p0 −4.044 ± 17.12
pull
Entries 86
Mean 226.8
Std Dev 0

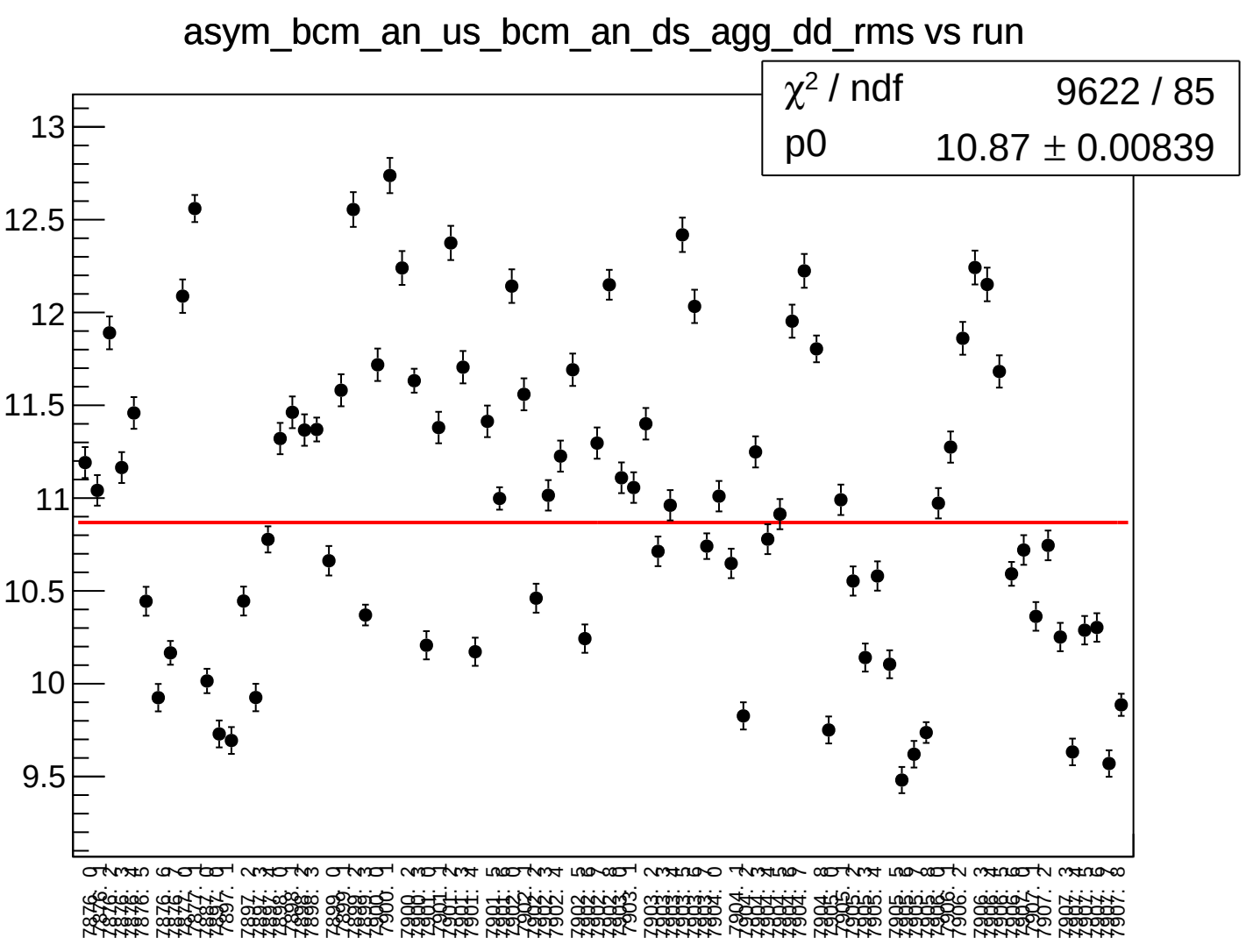

pull1D
Entries 86
Mean −0.01658
Std Dev 1.062

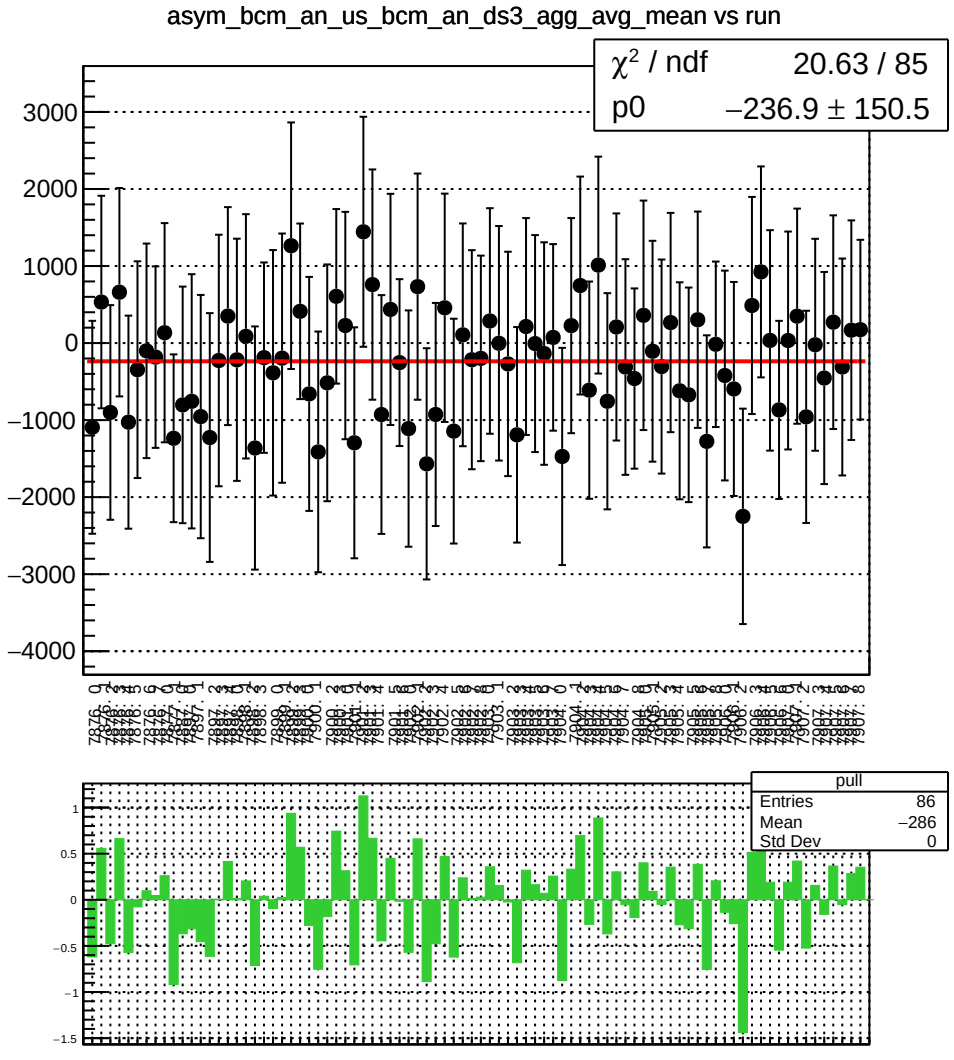

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1569 / 85
p0 15.72 ± 0.0121
17.5
17
16.5
16
15.5
15
14.5
14

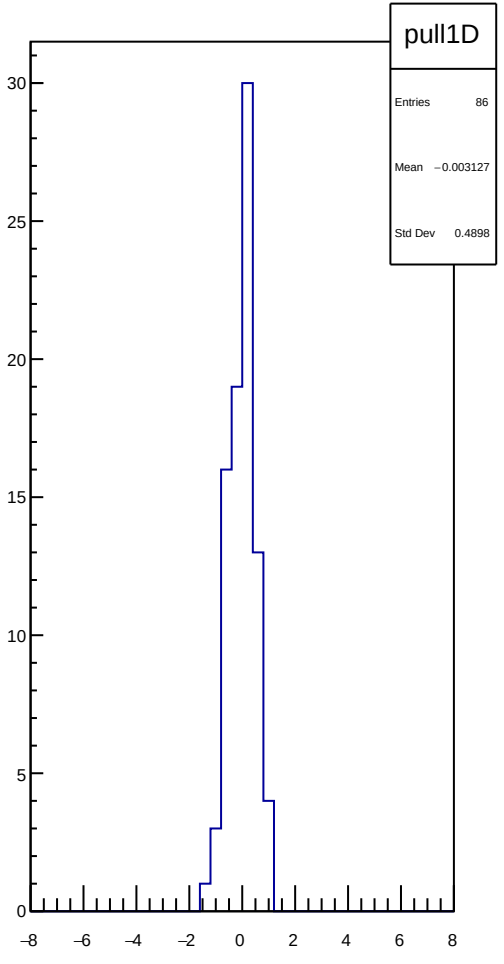

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 92.76 / 85
p0 14.47 ± 22.95
pull
Entries 86
Mean 2097
Std Dev 0
pull1D
Entries 86
Mean −0.001254
Std Dev 1.039

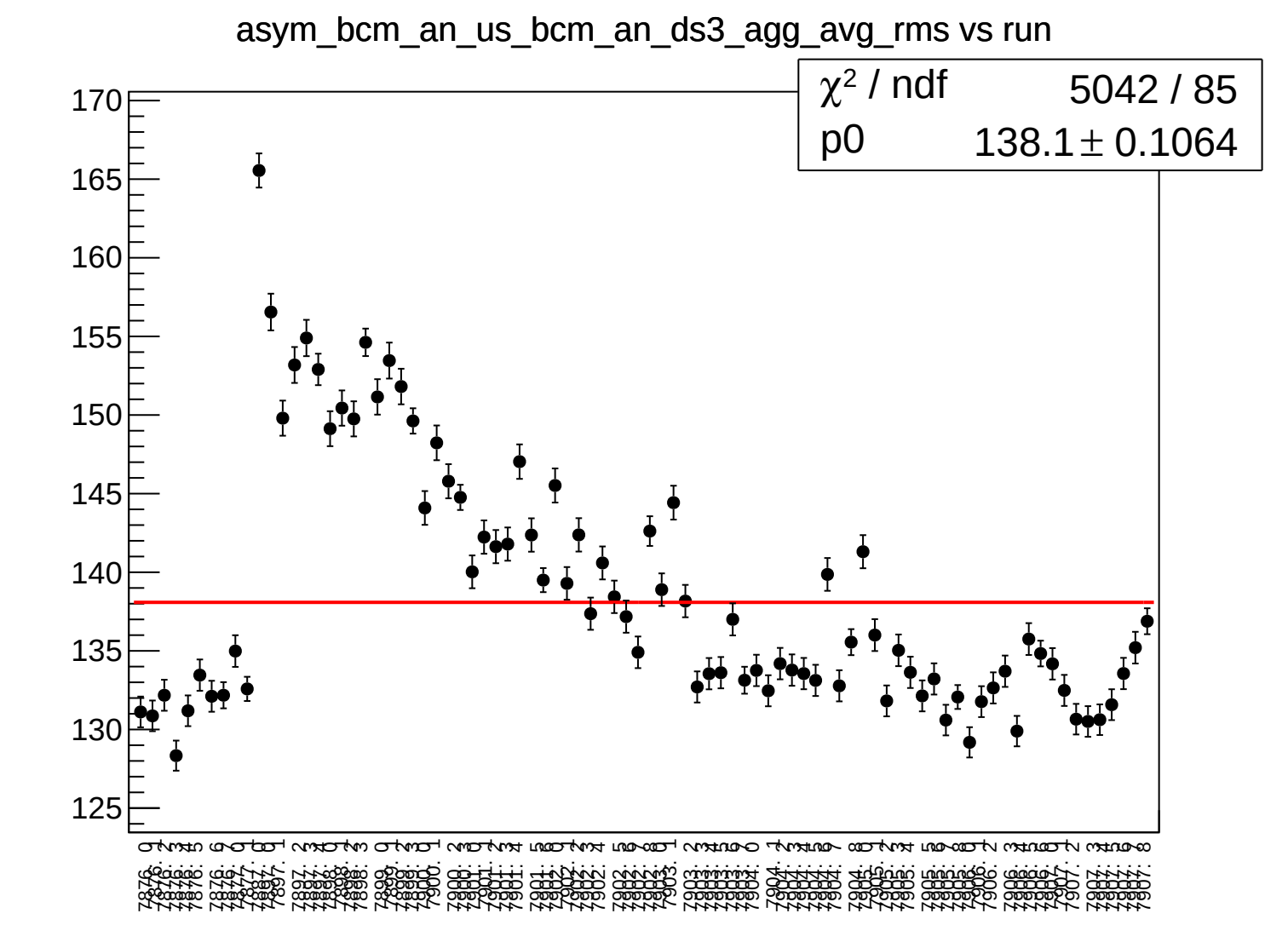

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 409.5 / 85
p0 21.08 ± 0.01623
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

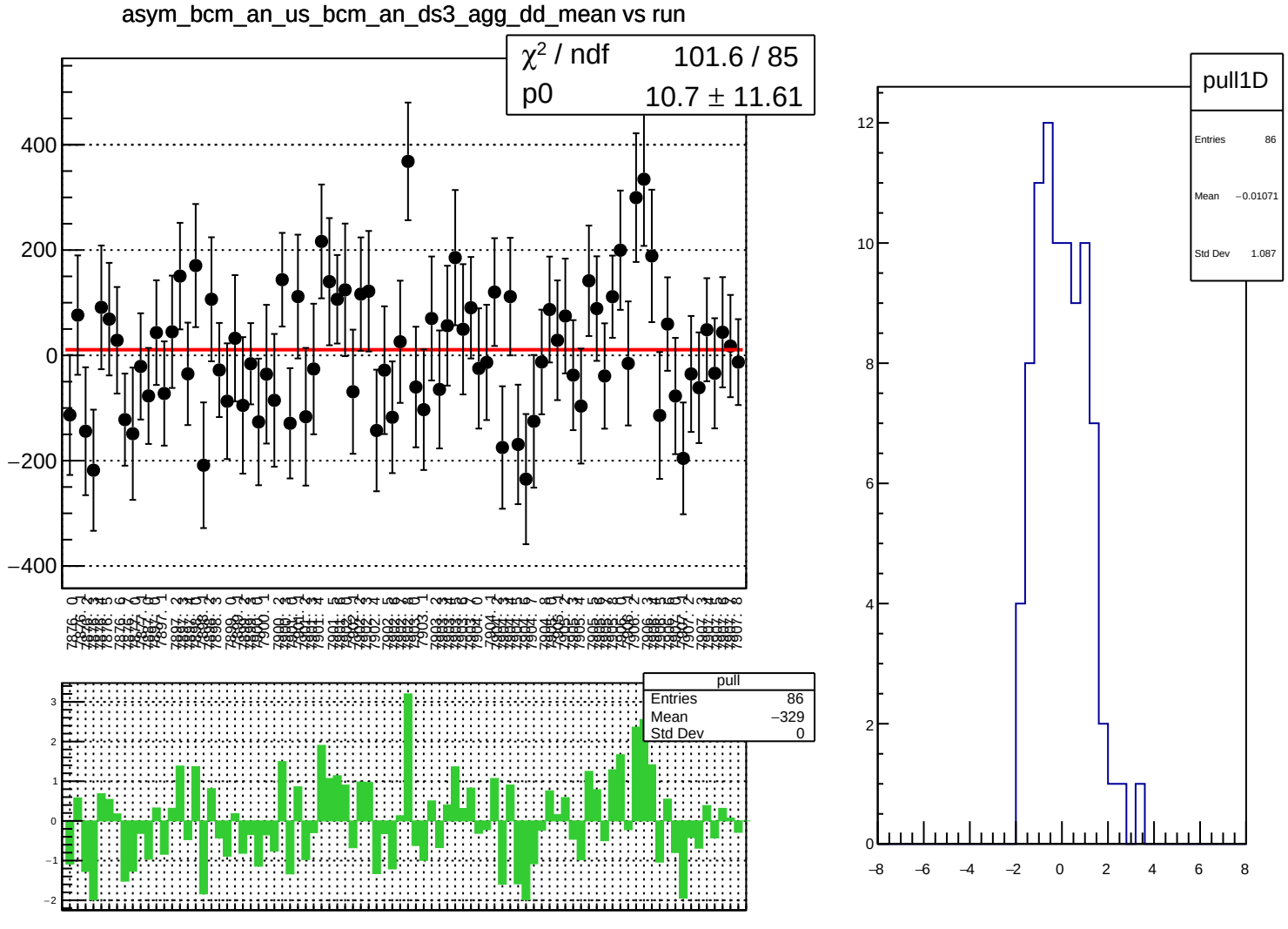

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 91 / 85
p0 10.31 ± 11.86
pull
Entries 86
Mean −129.2
Std Dev 0
pull1D
Entries 86
Mean −0.02055
Std Dev 1.028

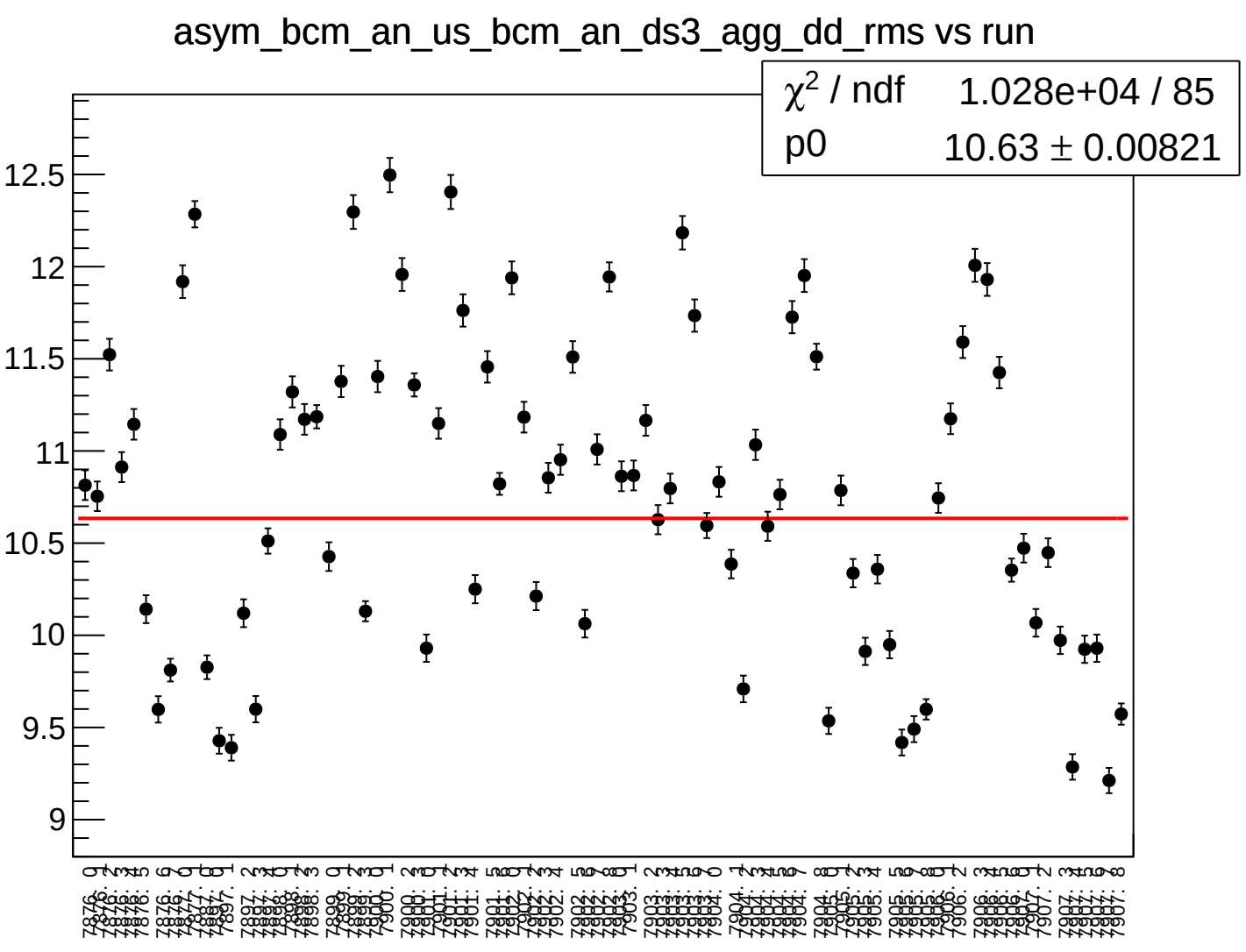

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9622 / 85
p0 10.87 ± 0.00839
13
12.5
12
11.5
11
10.5
10
9.5

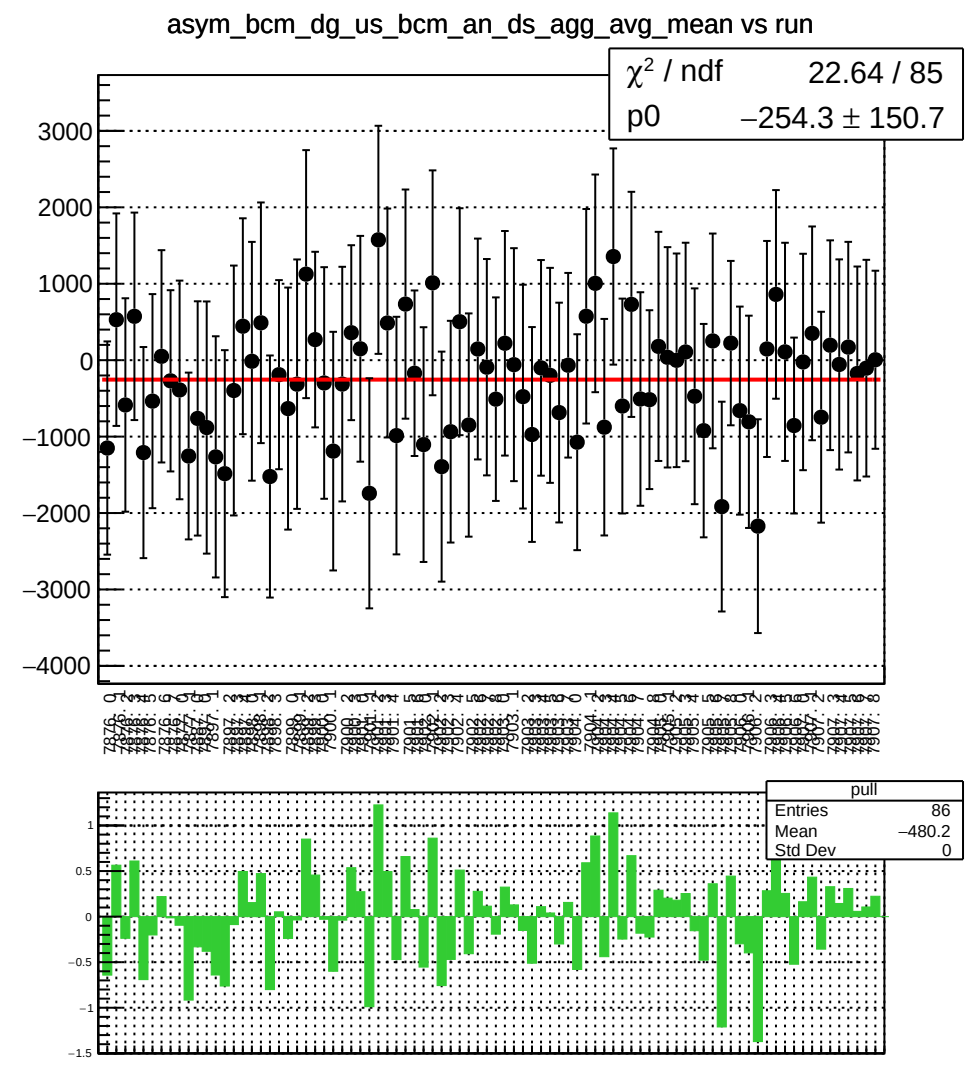

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 20.63 / 85
p0 −236.9 ± 150.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean −286
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

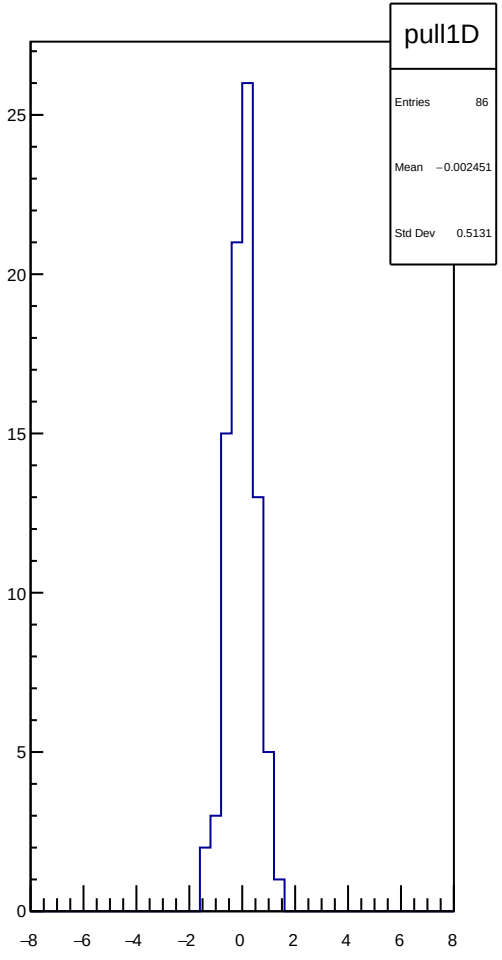

pull1D
Entries 86
Mean −0.003127
Std Dev 0.4898
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

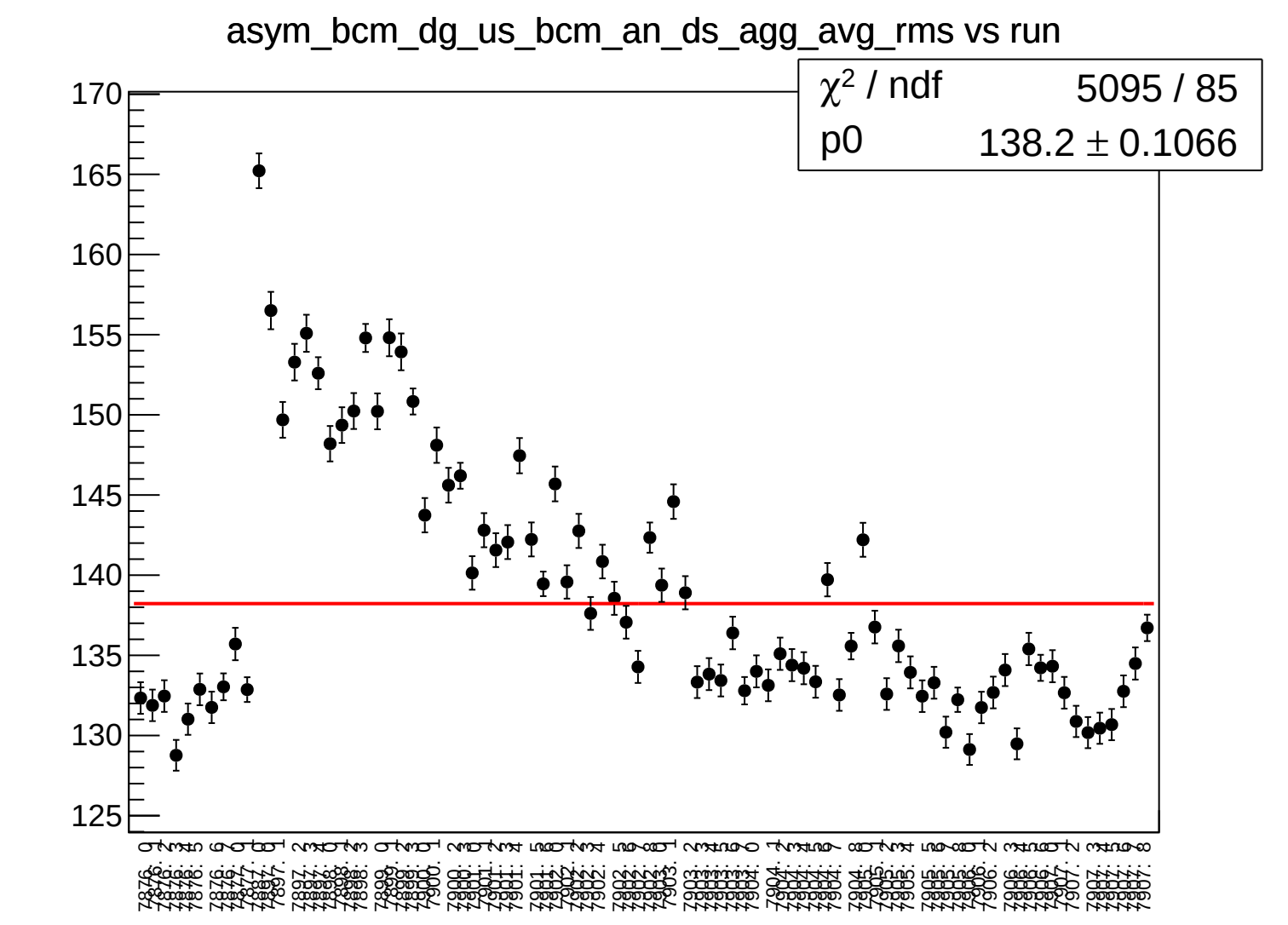

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 5042 / 85
p0 138.1 ± 0.1064
170
165
160
155
150
145
140
135
130
125

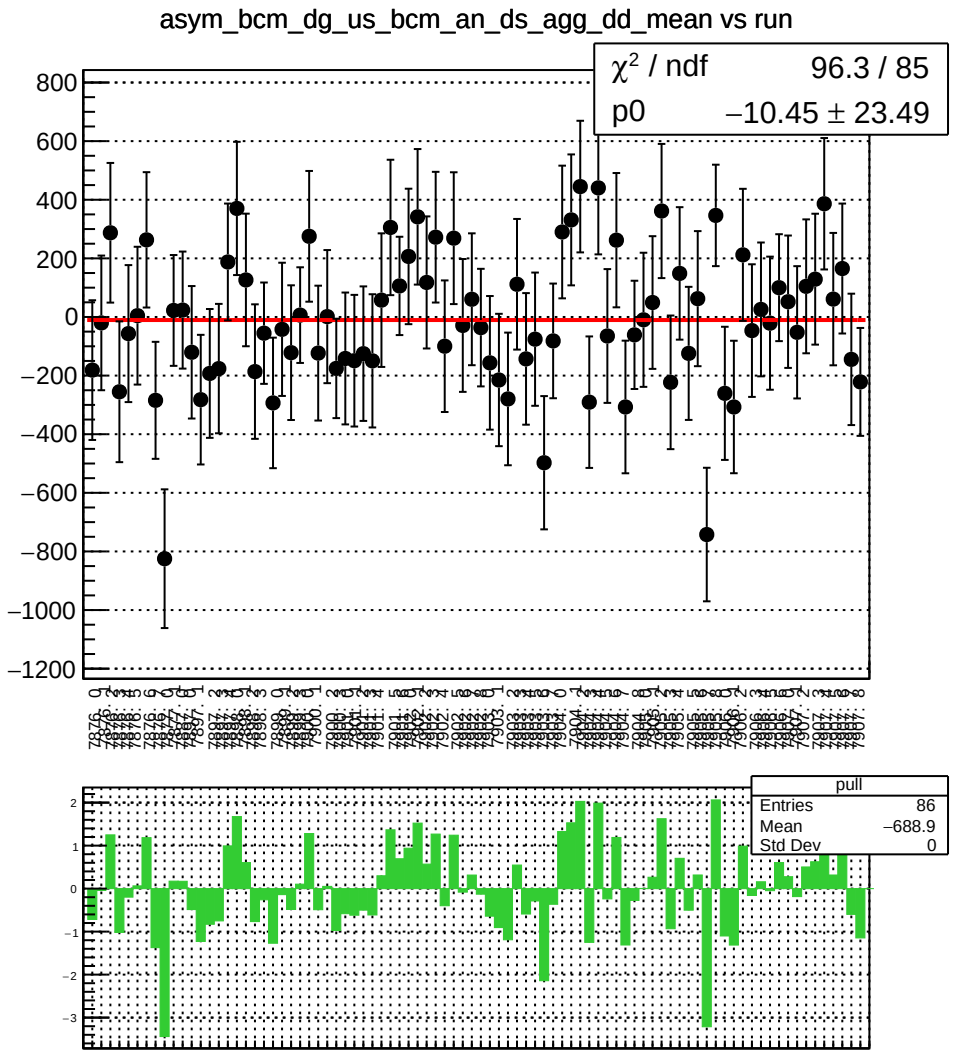

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 101.6 / 85
p0 10.7 ± 11.61
400
200
0
−200
−400
pull
Entries 86
Mean −329
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01071
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

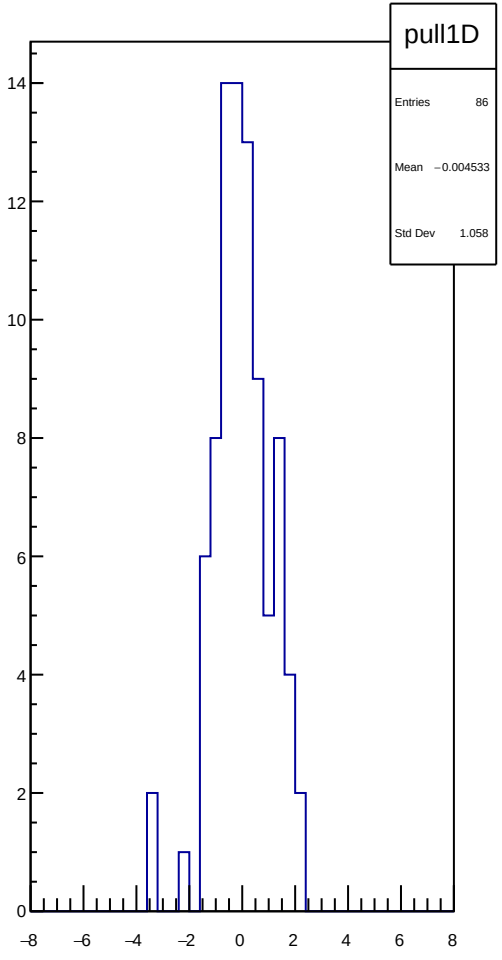

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.028e+04 / 85
p0 10.63 ± 0.00821
12.5
12
11.5
11
10.5
10
9.5
9

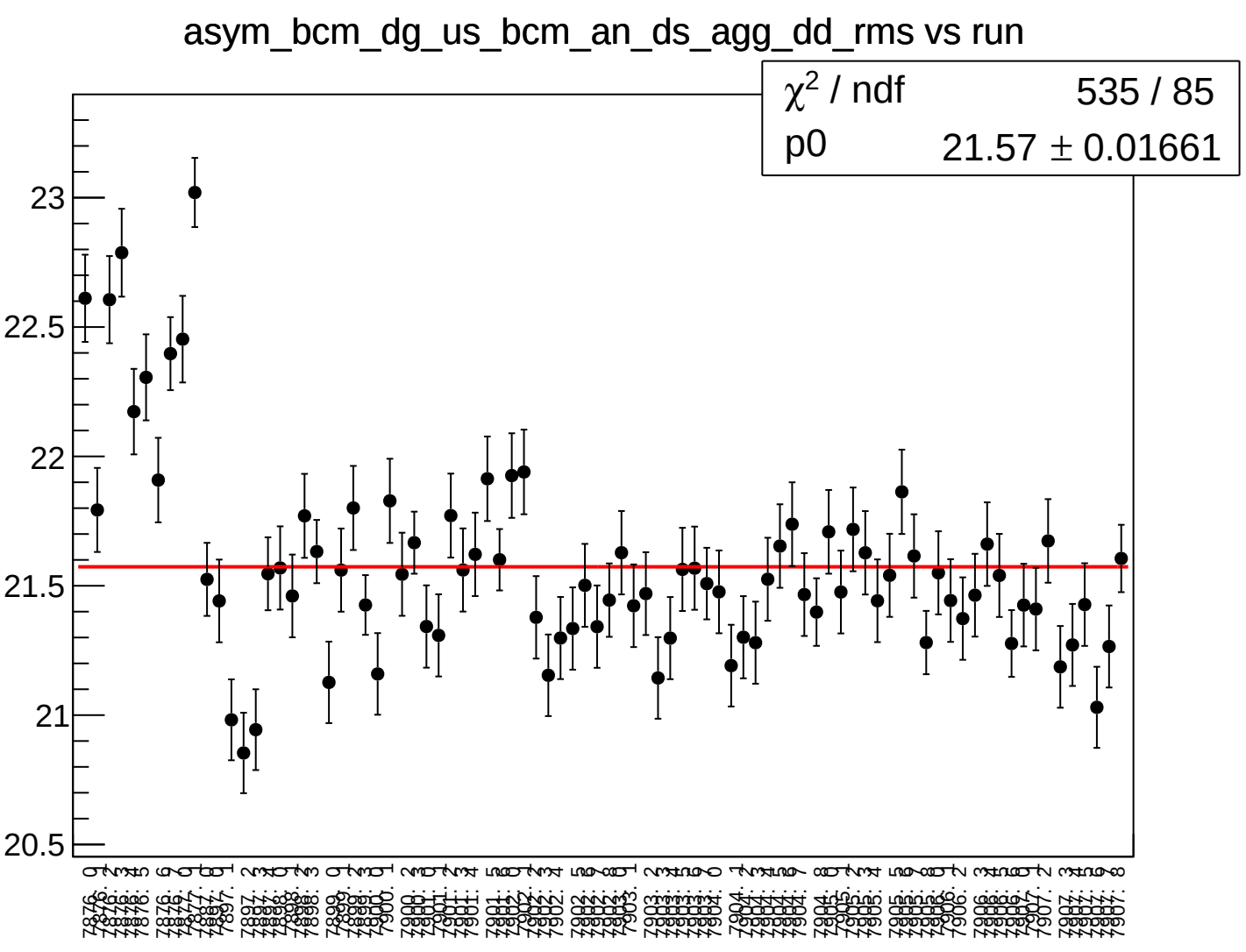

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.64 / 85
p0 −254.3 ± 150.7
pull
Entries 86
Mean −480.2
Std Dev 0

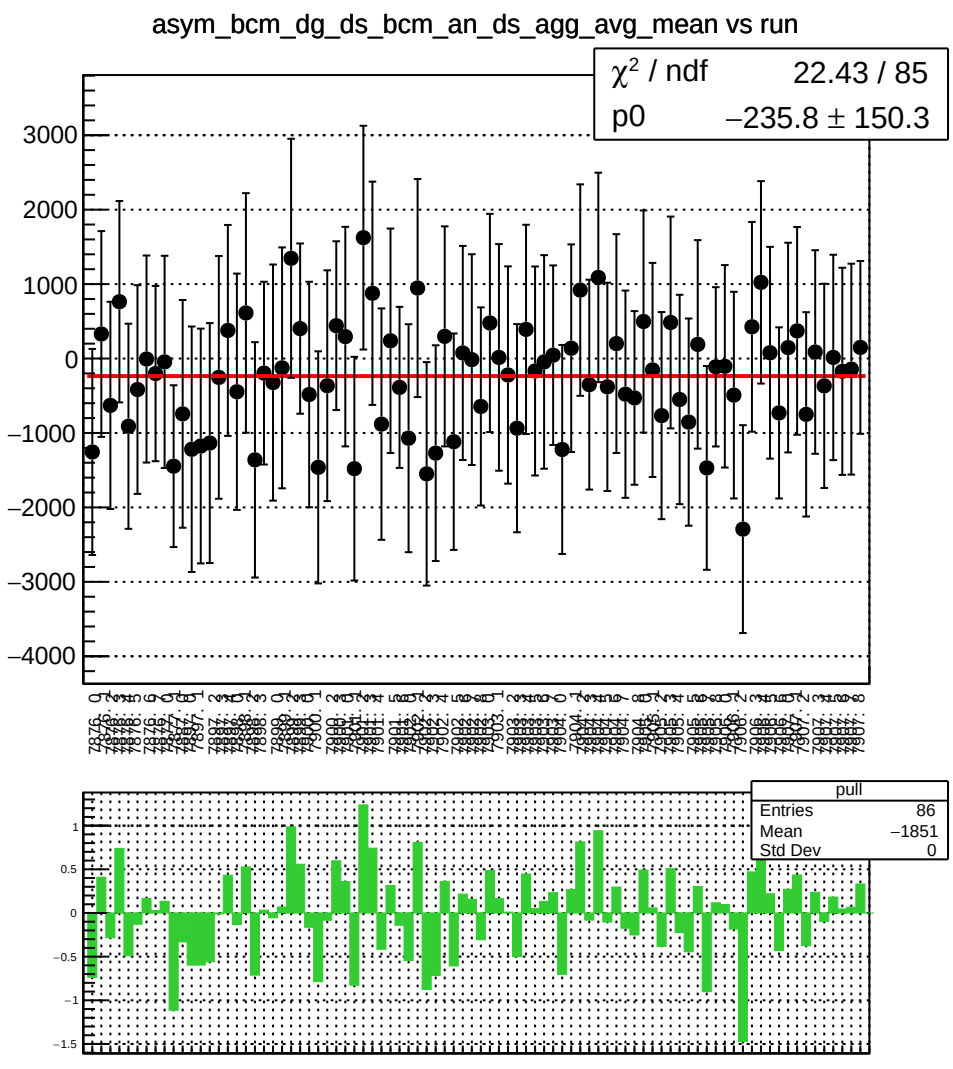

pull1D
Entries 86
Mean −0.002451
Std Dev 0.5131

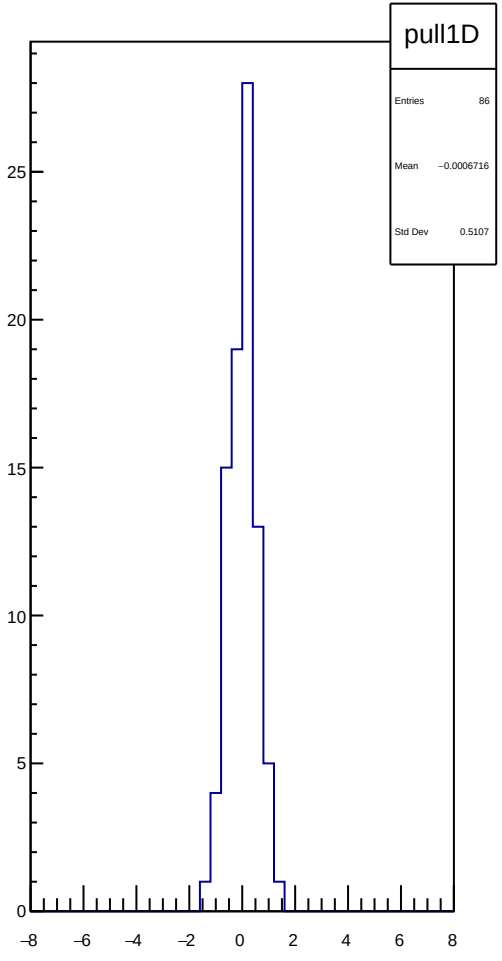

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5095 / 85
p0 138.2 ± 0.1066
170
165
160
155
150
145
140
135
130
125

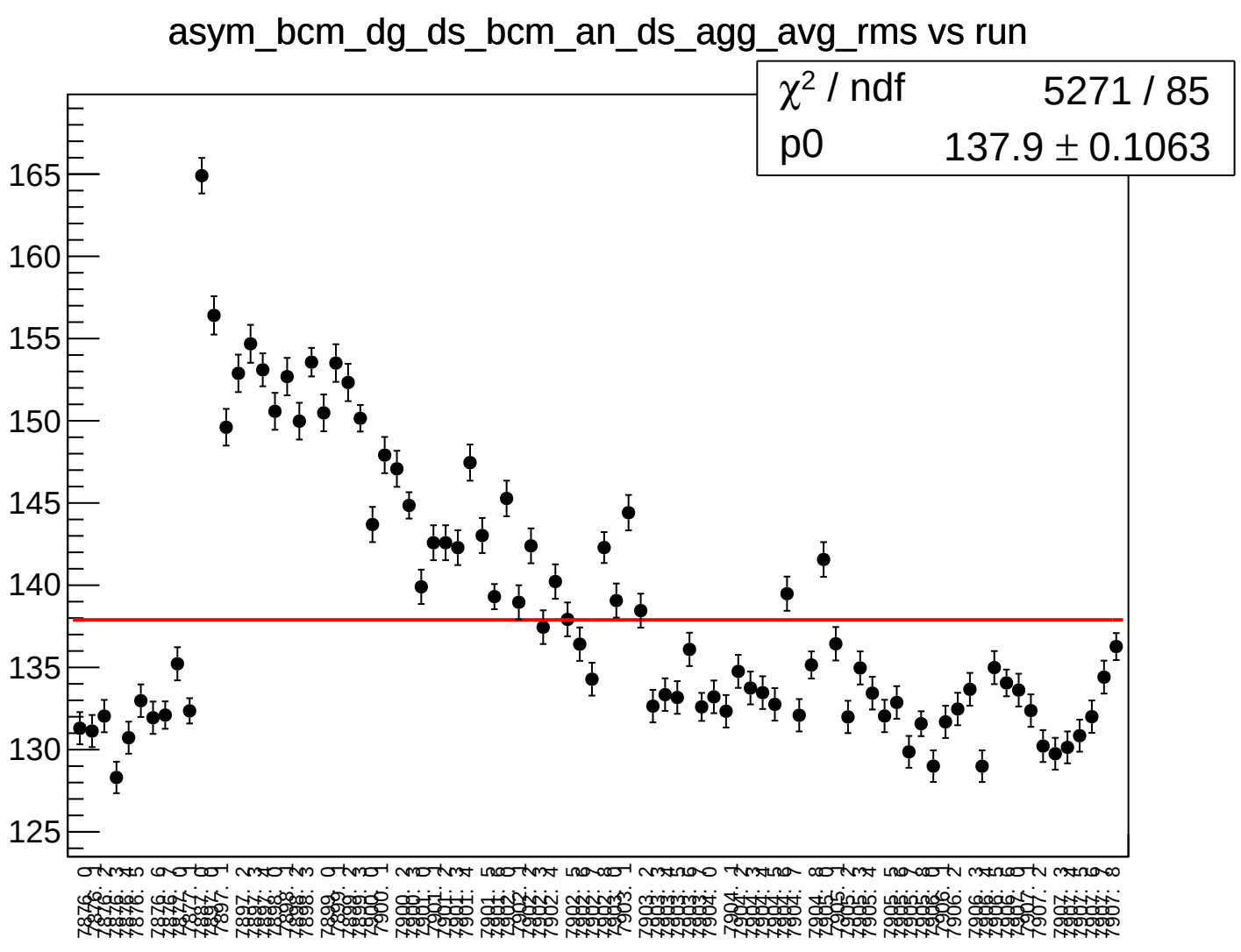

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 96.3 / 85
p0 −10.45 ± 23.49
pull
Entries 86
Mean −688.9
Std Dev 0

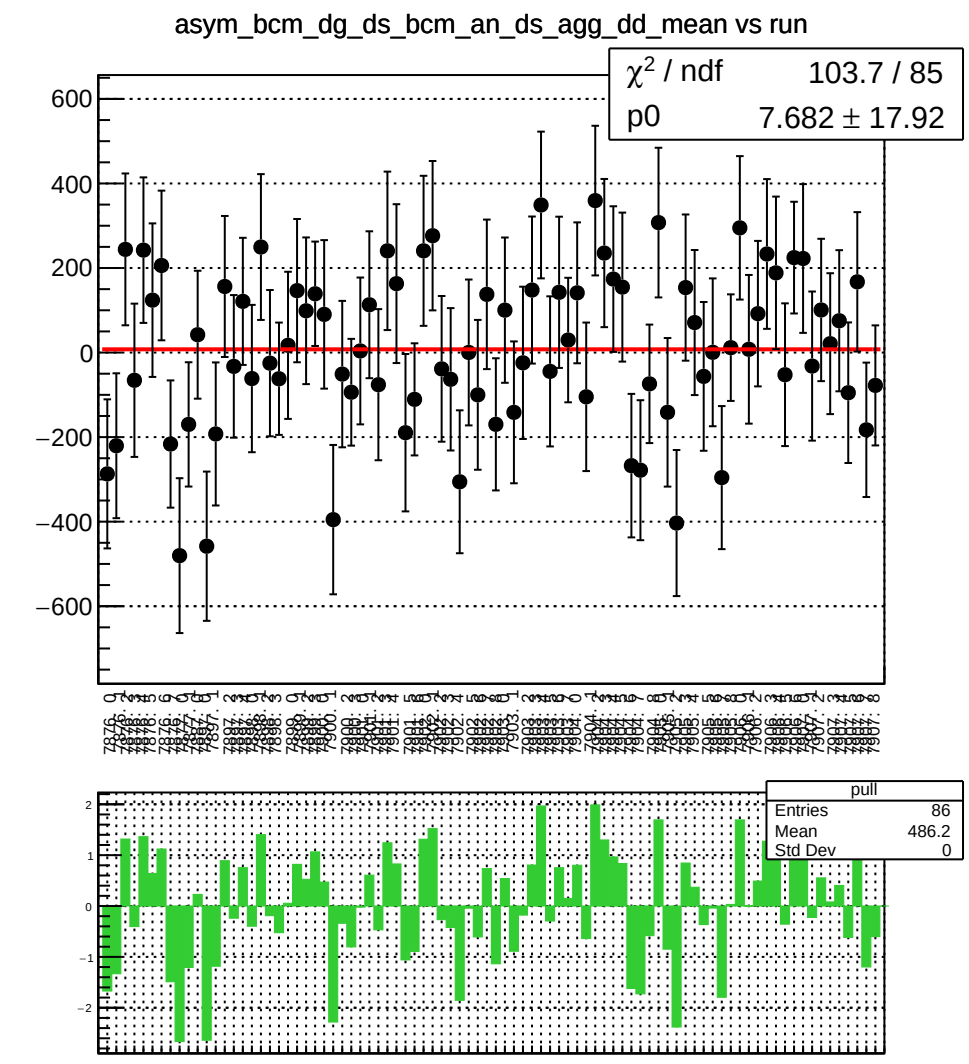

pull1D
Entries 86
Mean −0.004533
Std Dev 1.058

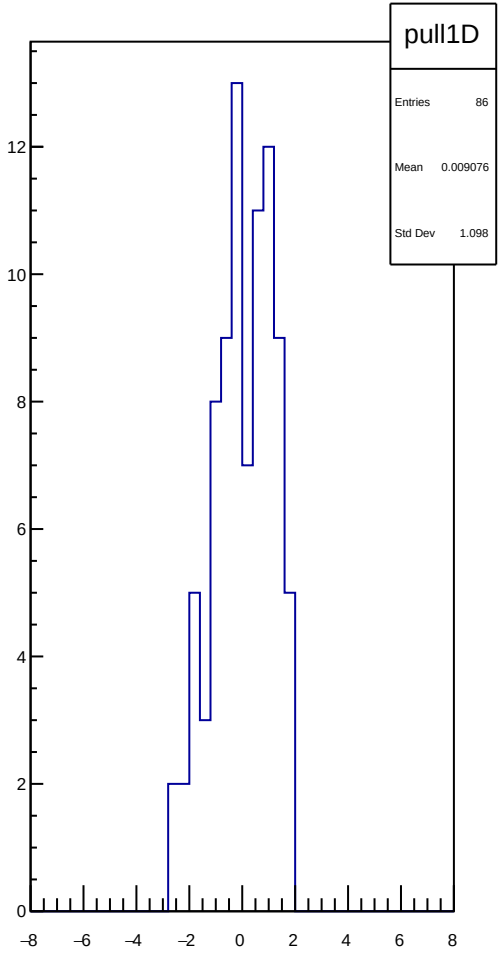

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 535 / 85
p0 21.57 ± 0.01661
23
22.5
22
21.5
21
20.5

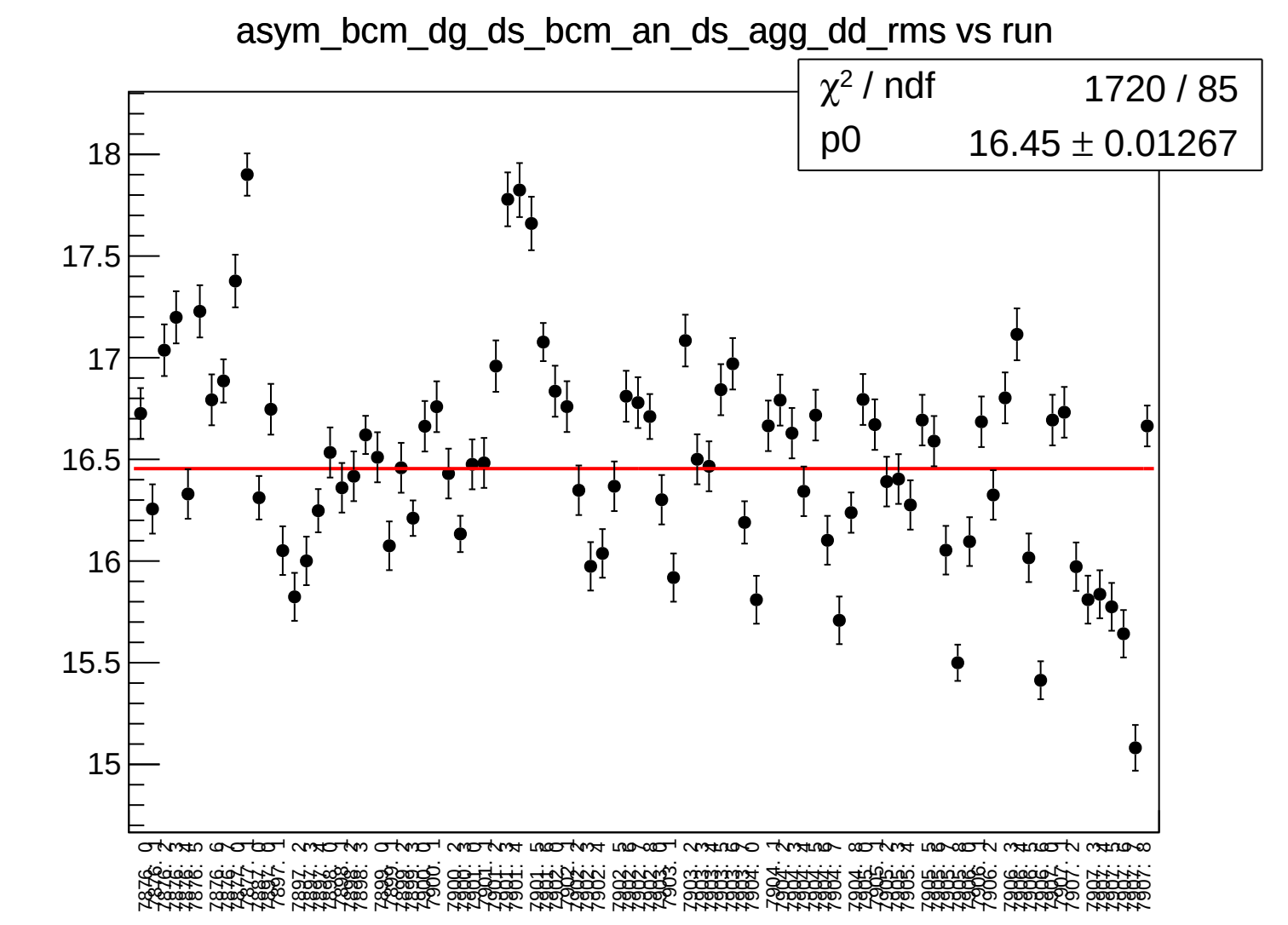

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.43 / 85
p0 −235.8 ± 150.3
pull
Entries 86
Mean −1851
Std Dev 0

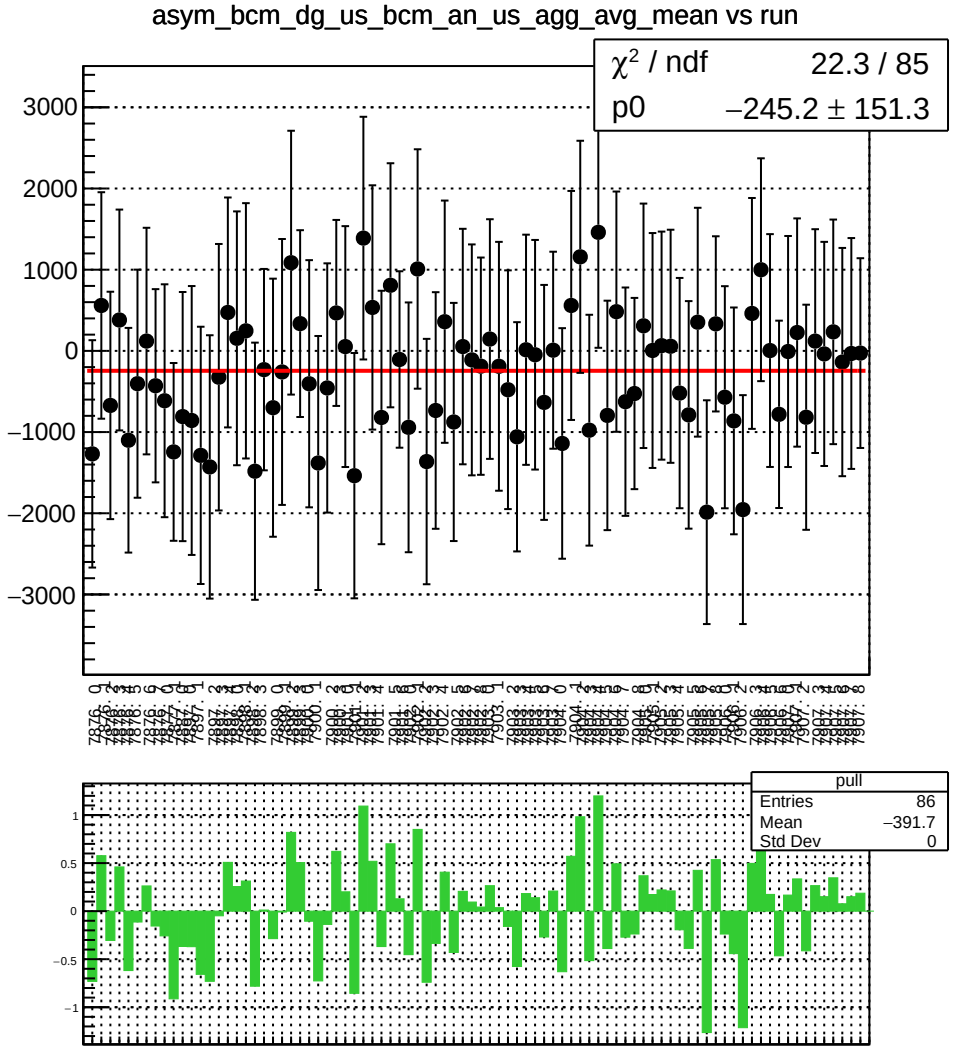

pull1D
Entries 86
Mean −0.0006716
Std Dev 0.5107

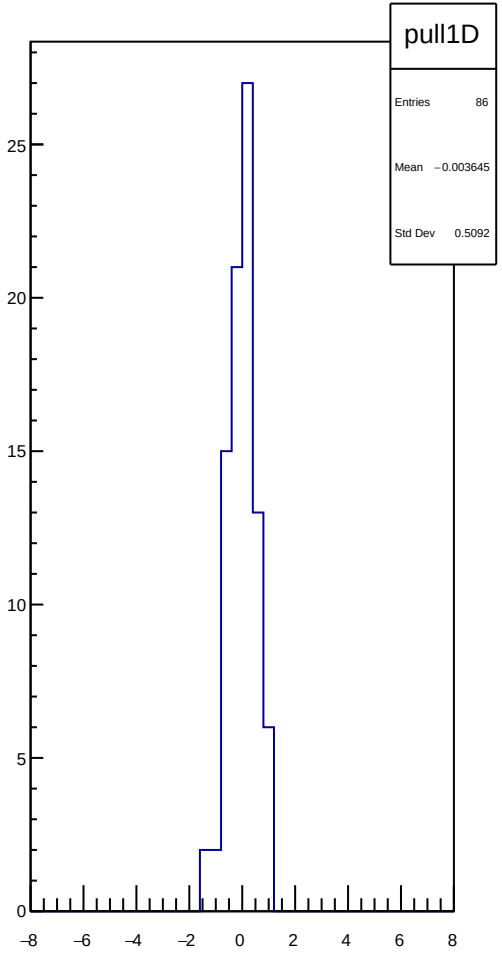

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5271 / 85
p0 137.9 ± 0.1063
165
160
155
150
145
140
135
130
125

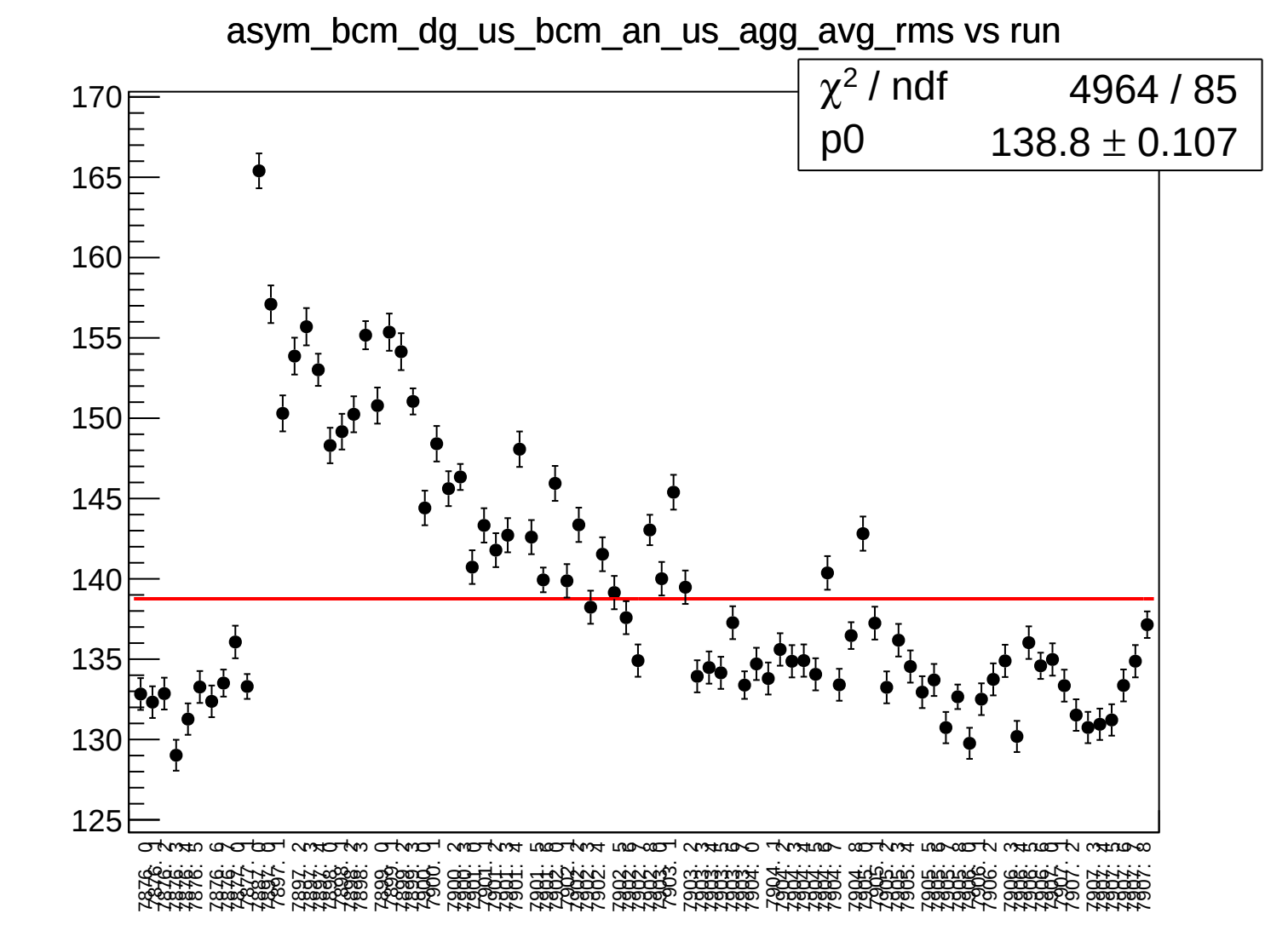

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 103.7 / 85
p0 7.682 ± 17.92
pull
Entries 86
Mean 486.2
Std Dev 0

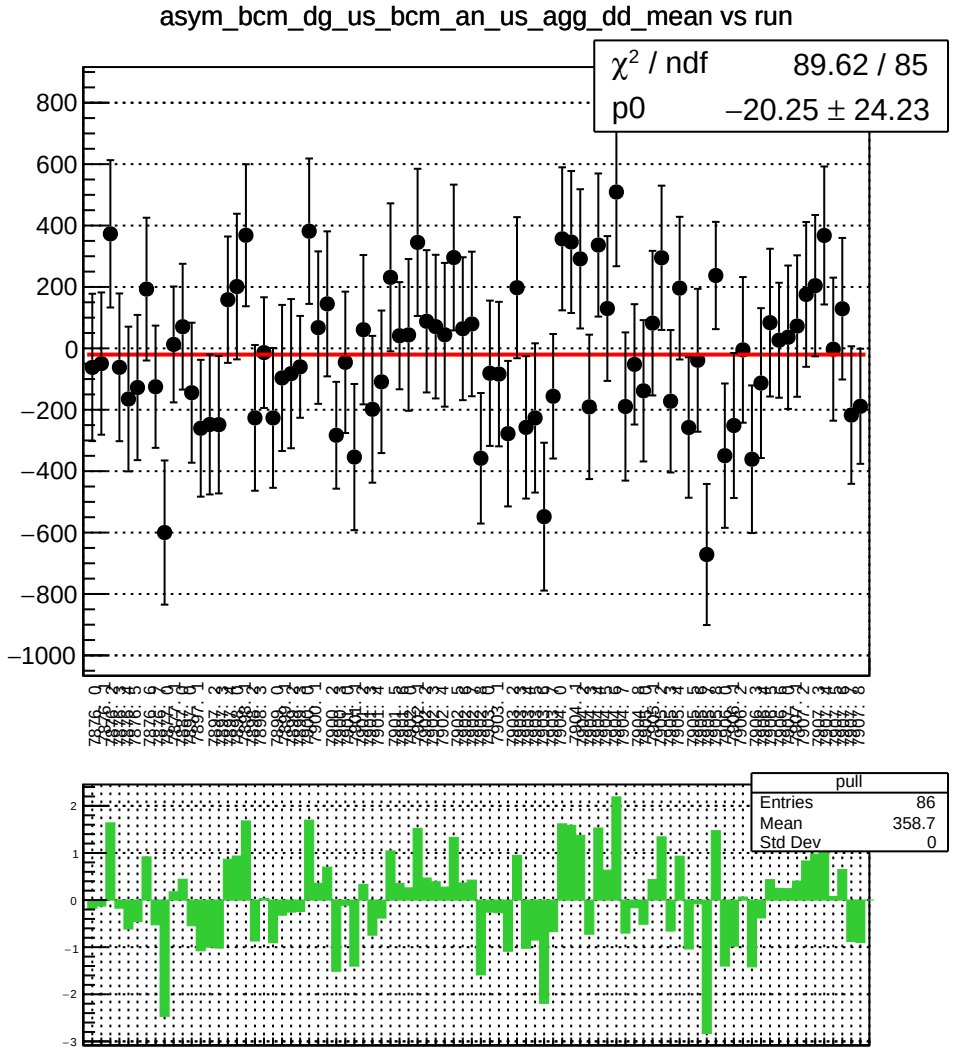

pull1D
Entries 86
Mean 0.009076
Std Dev 1.098

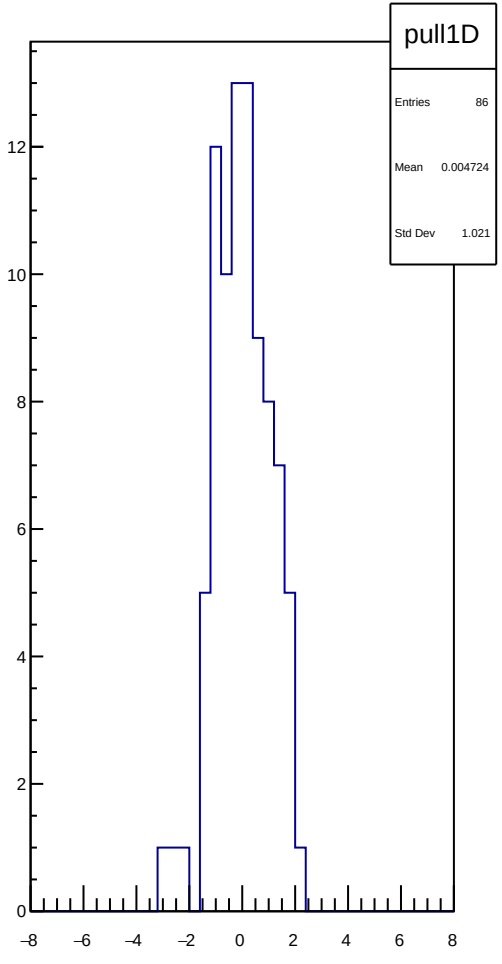

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1720 / 85
p0 16.45 ± 0.01267
18
17.5
17
16.5
16
15.5
15

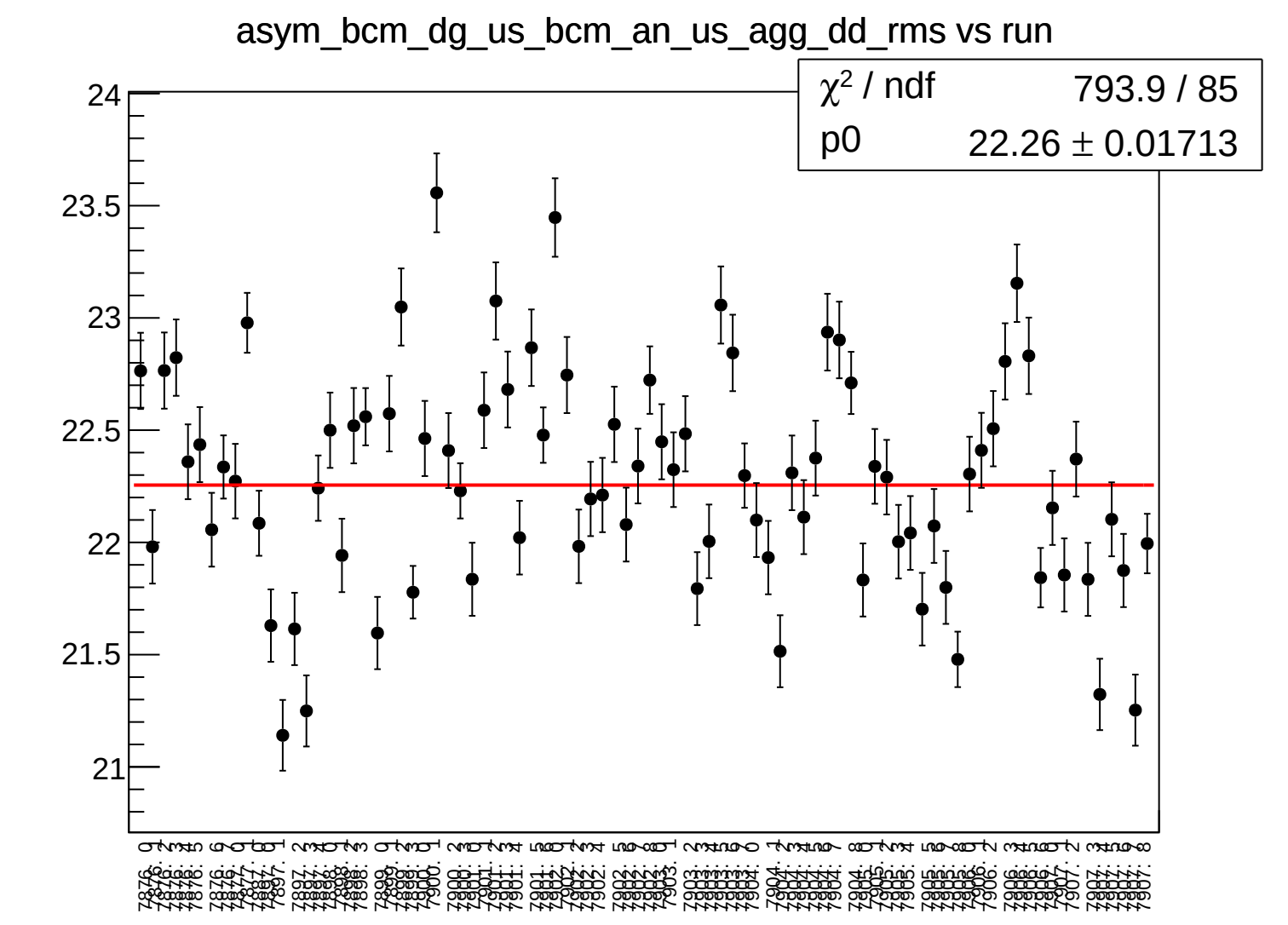

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.3 / 85
p0 −245.2 ± 151.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −391.7
Std Dev 0
1
0.5
0
−0.5
−1

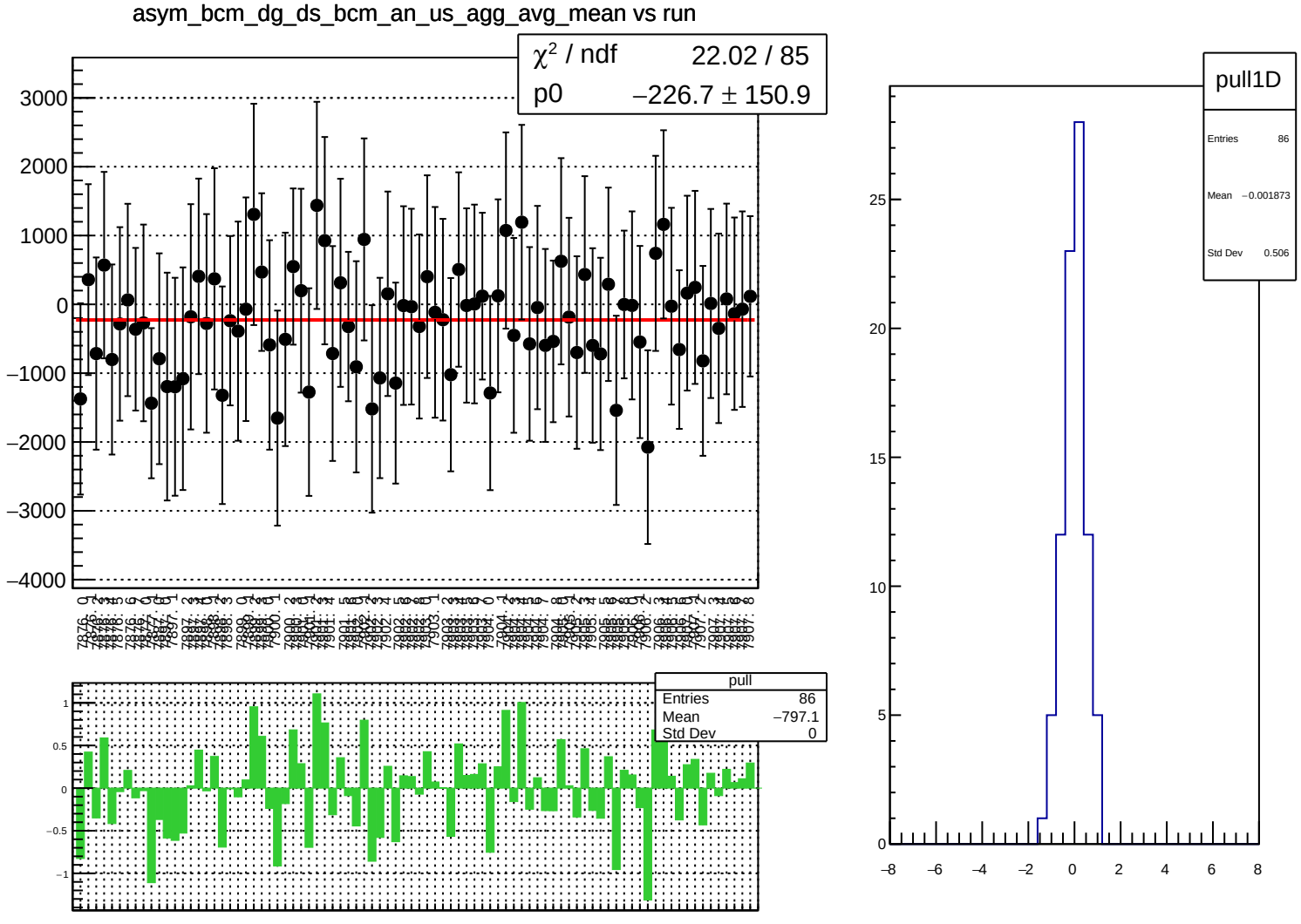

pull1D
Entries 86
Mean −0.003645
Std Dev 0.5092
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

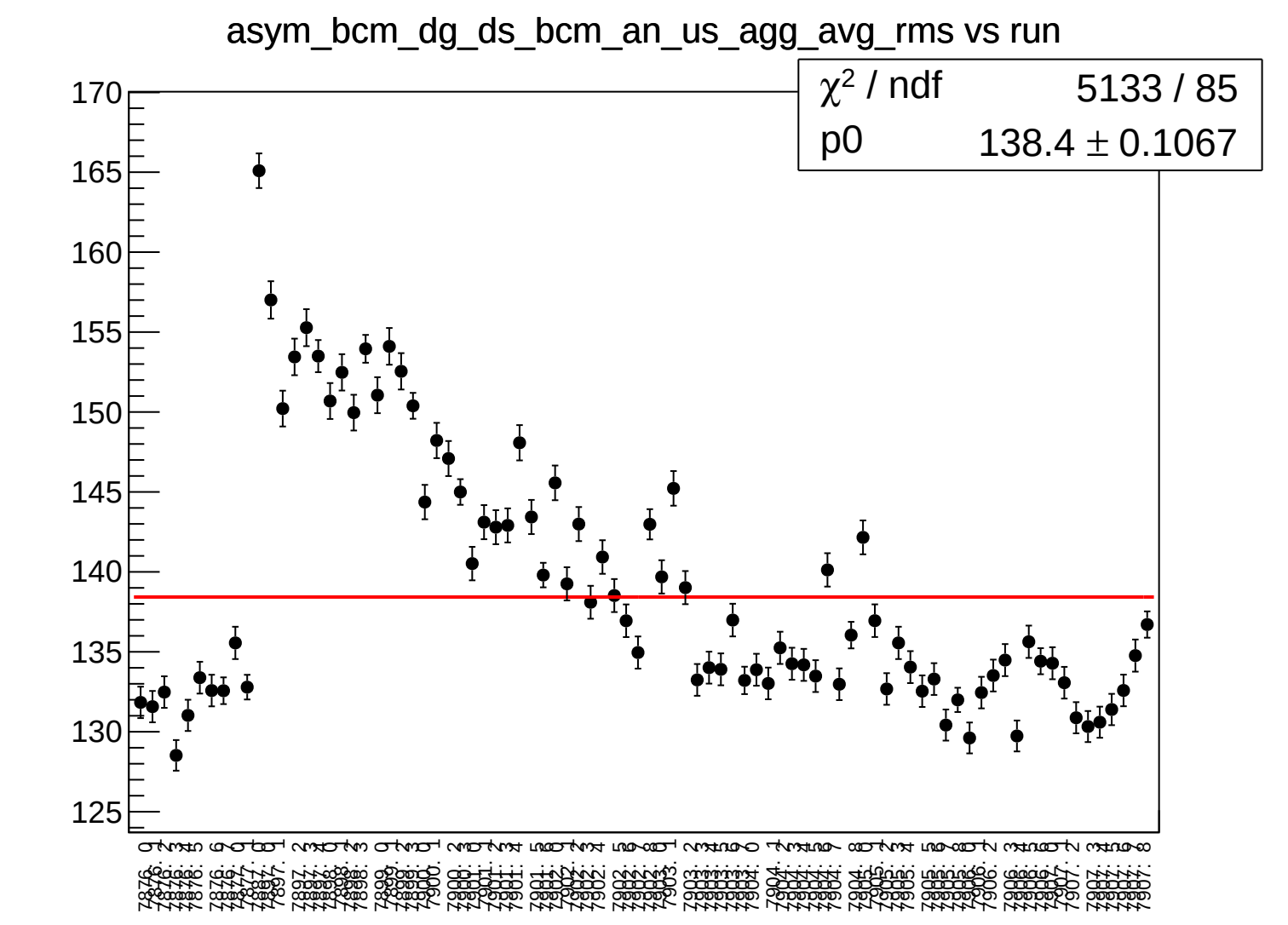

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4964 / 85
p0 138.8 ± 0.107
170
165
160
155
150
145
140
135
130
125

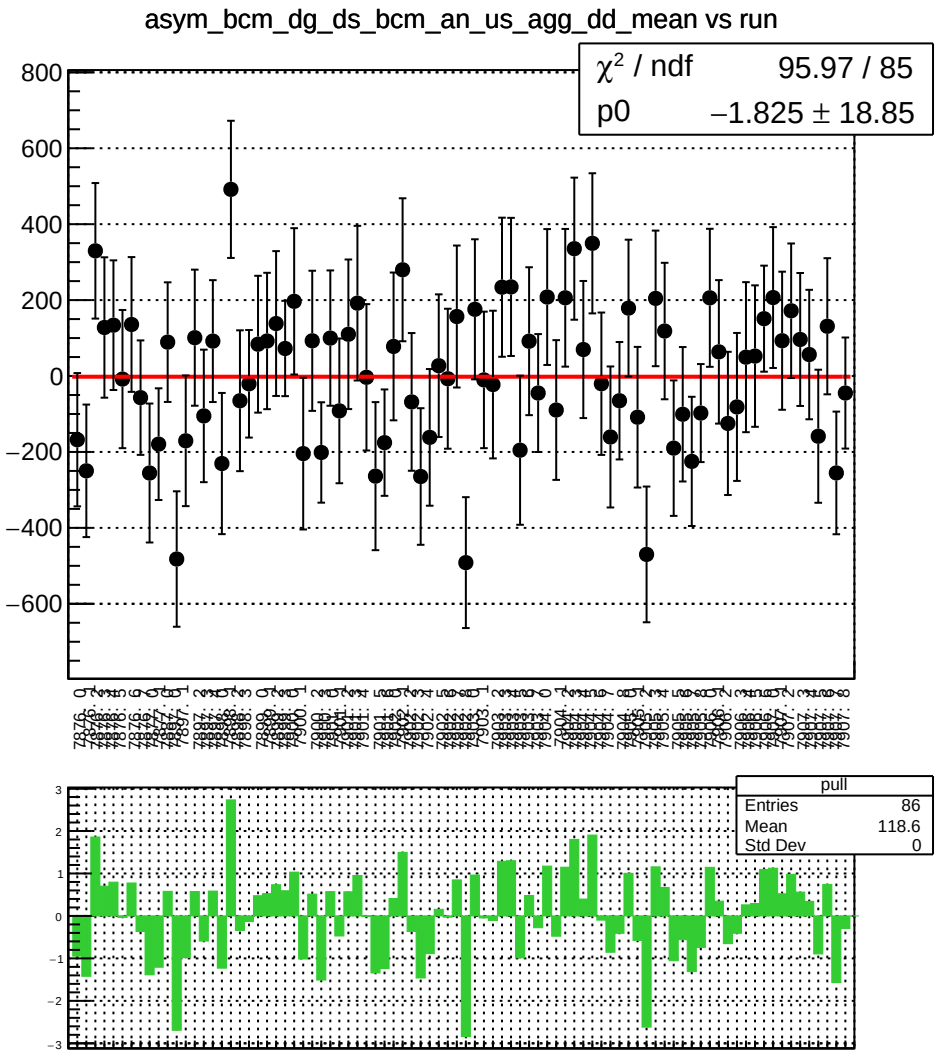

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 89.62 / 85
p0 −20.25 ± 24.23
pull
Entries 86
Mean 358.7
Std Dev 0

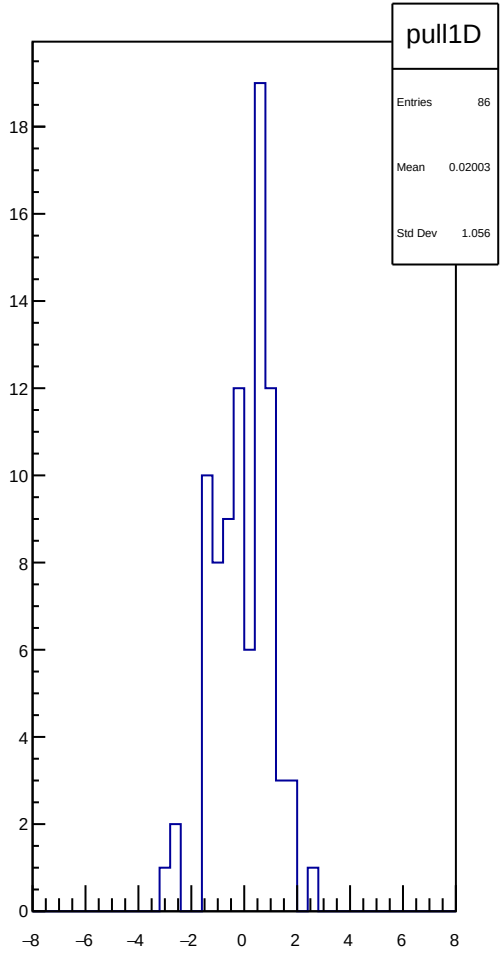

pull1D
Entries 86
Mean 0.004724
Std Dev 1.021

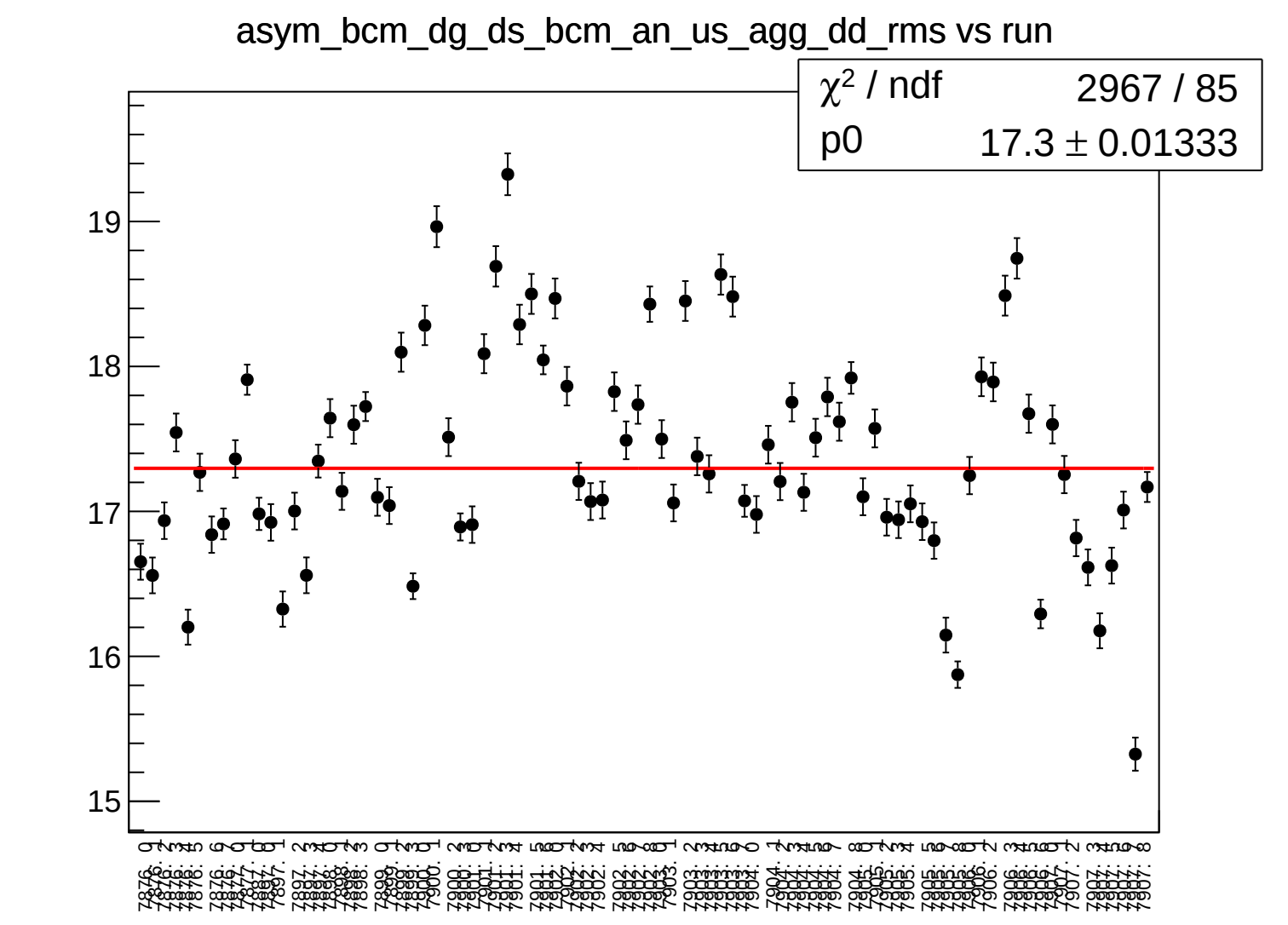

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 793.9 / 85
p0 22.26 ± 0.01713
24
23.5
23
22.5
22
21.5
21

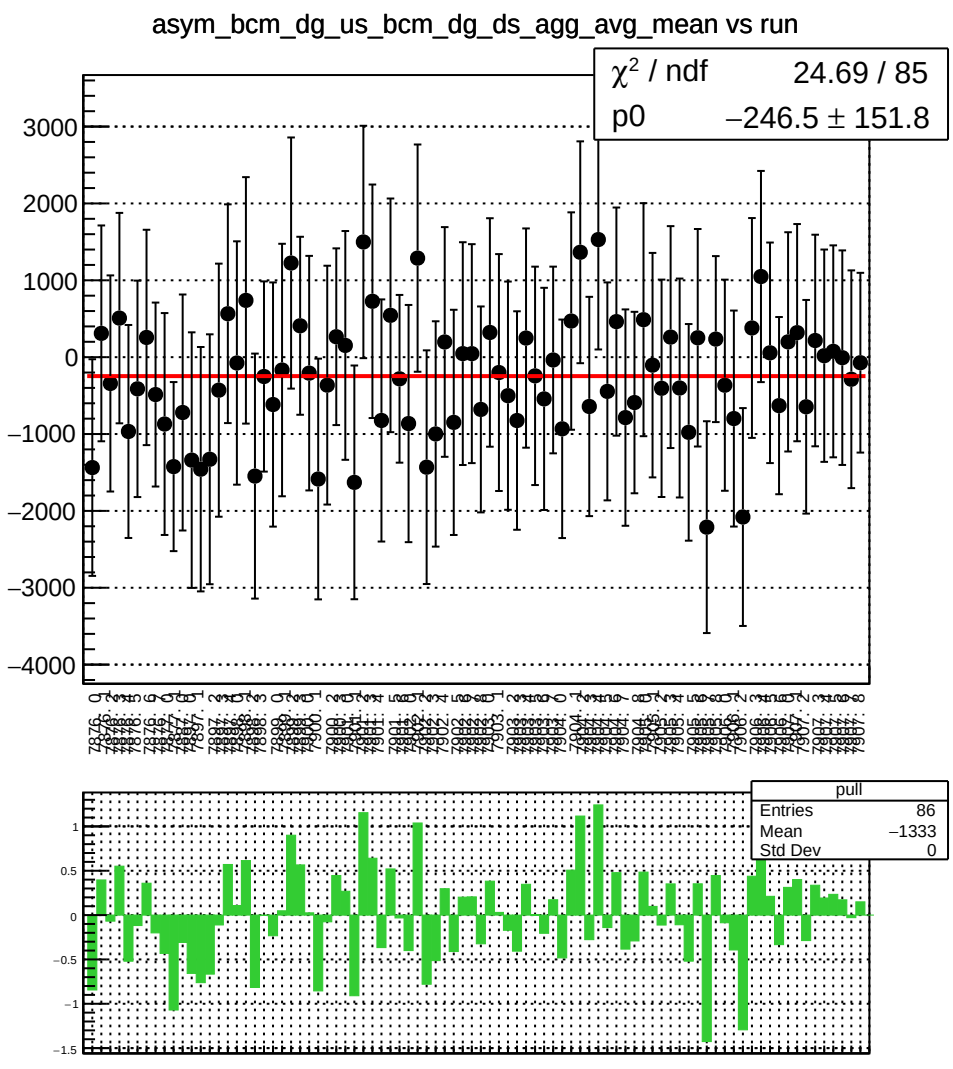

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.02 / 85
p0 −226.7 ± 150.9
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean −797.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.001873
Std Dev 0.506
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

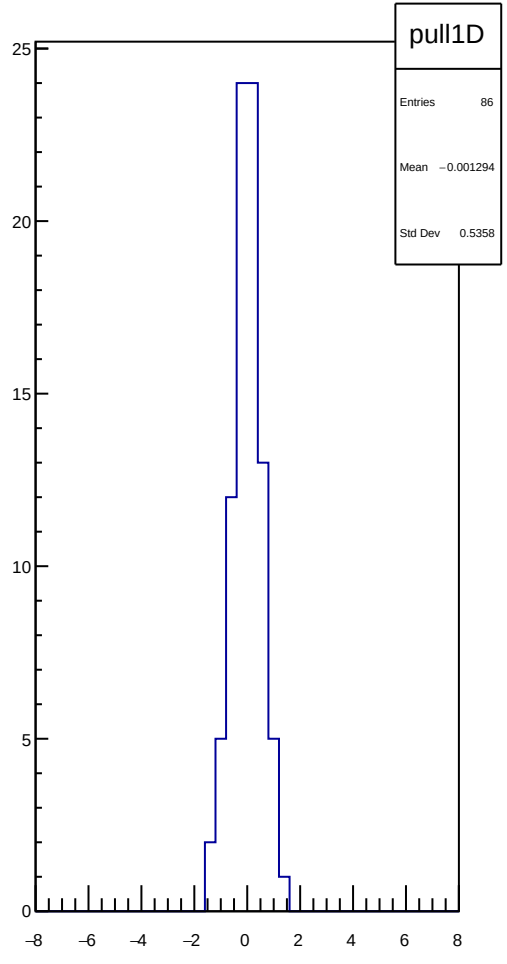

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5133 / 85
p0 138.4 ± 0.1067
170
165
160
155
150
145
140
135
130
125

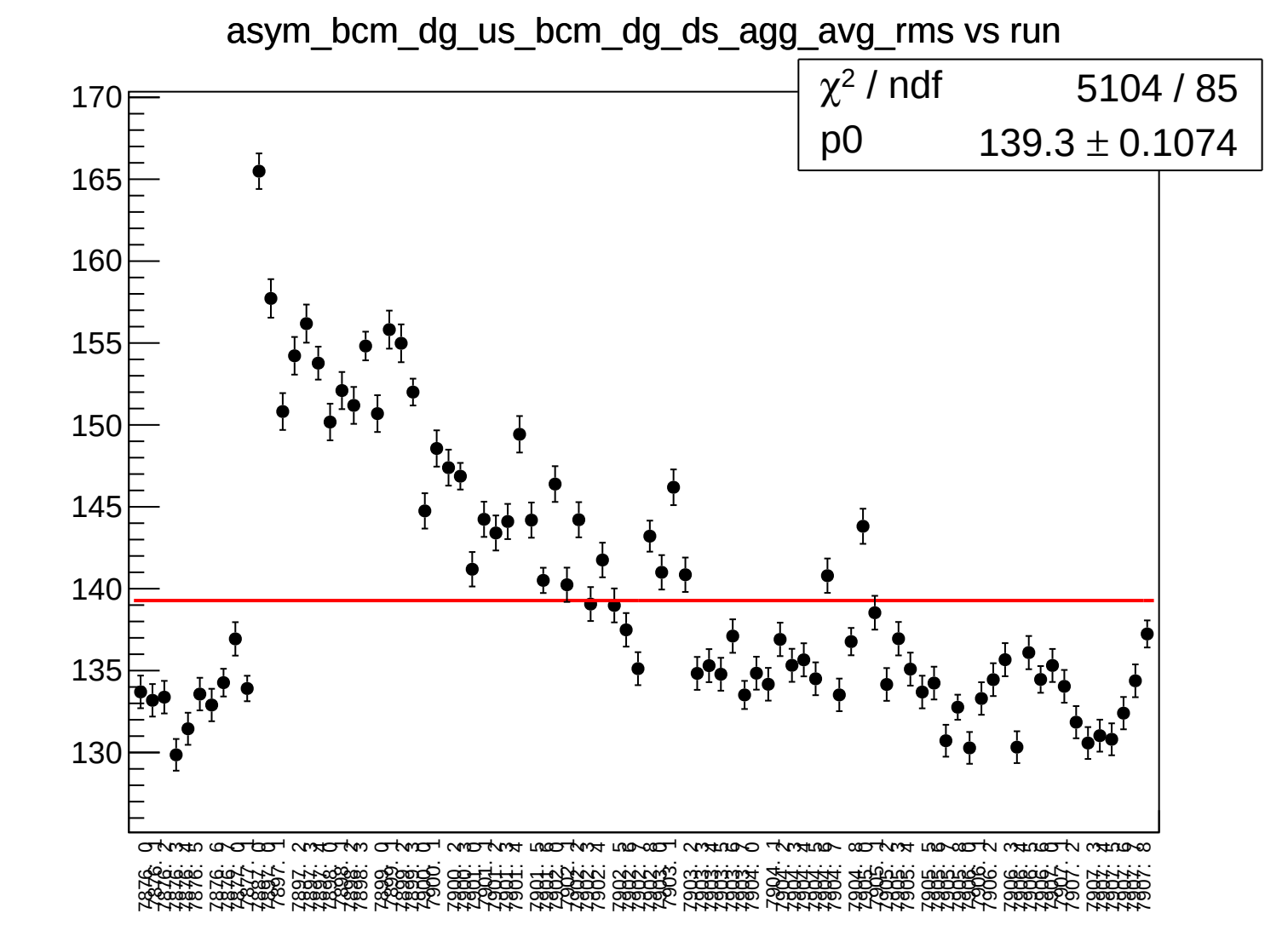

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 95.97 / 85
p0 −1.825 ± 18.85
800
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean 118.6
Std Dev 0
3
2
1
0
−1
−2
−3

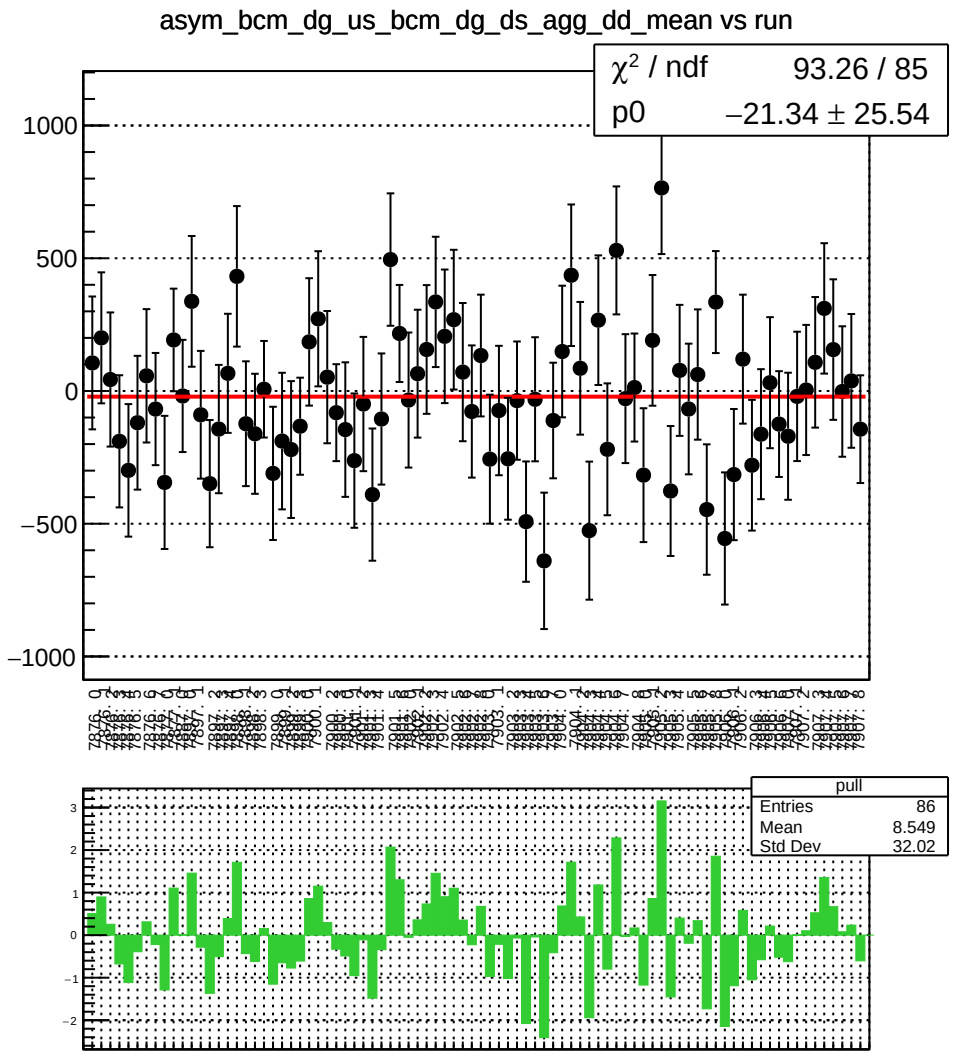

pull1D
Entries 86
Mean 0.02003
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

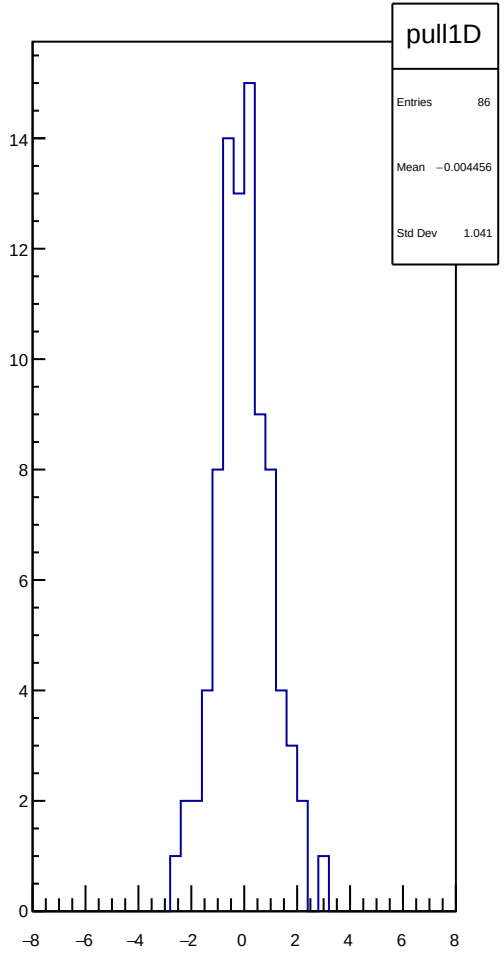

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2967 / 85
p0 17.3 ± 0.01333
19
18
17
16
15

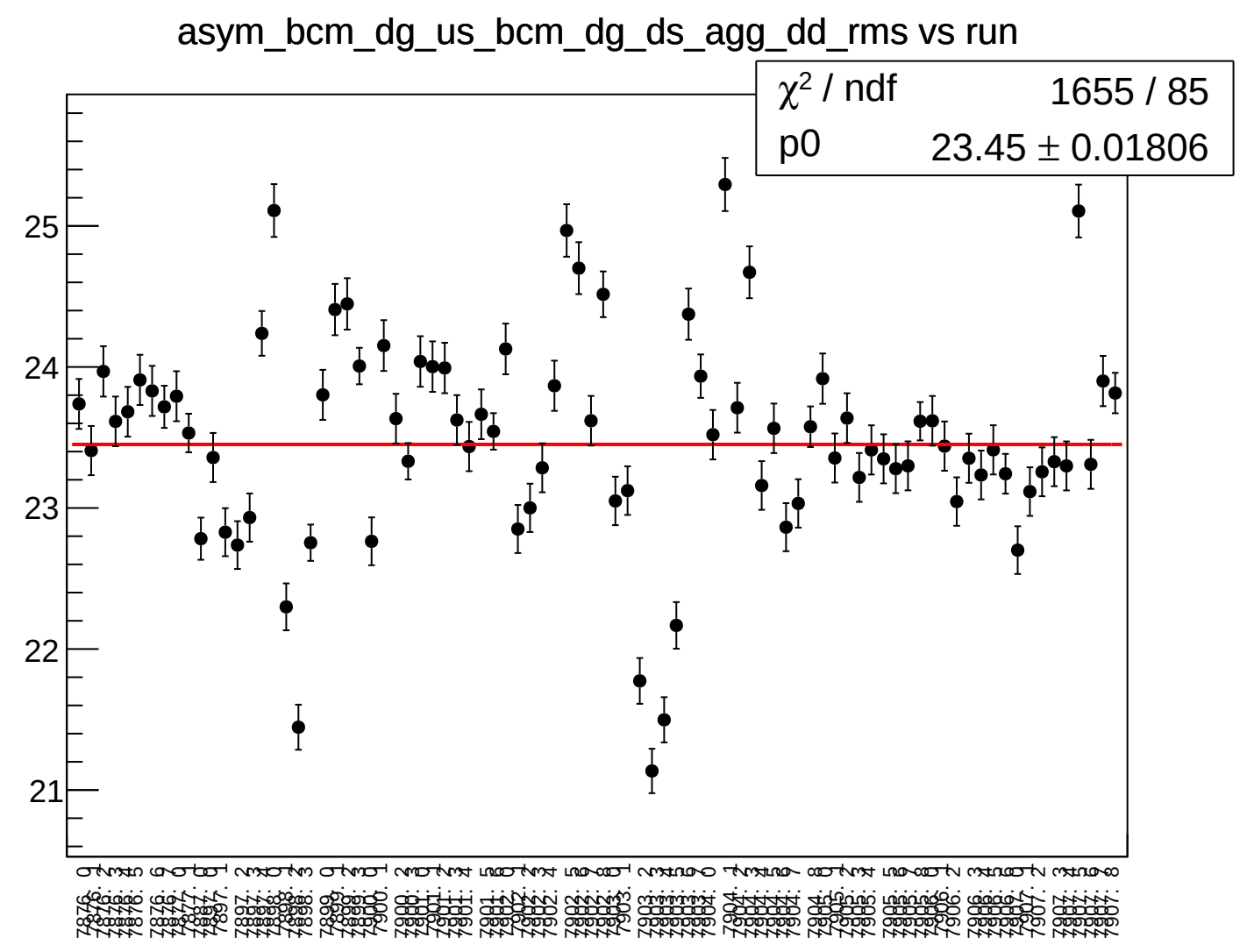

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.69 / 85
p0 −246.5 ± 151.8
pull
Entries 86
Mean −1333
Std Dev 0

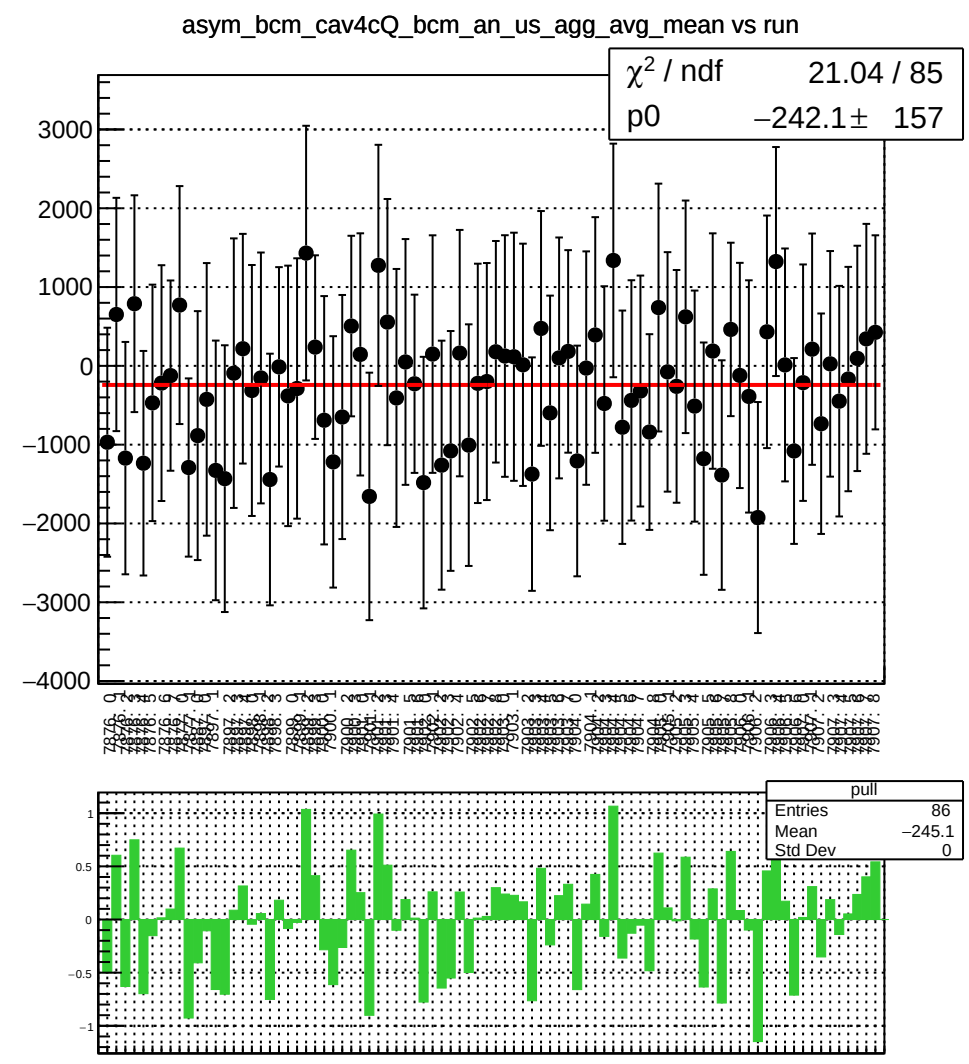

pull1D
Entries 86
Mean −0.001294
Std Dev 0.5358

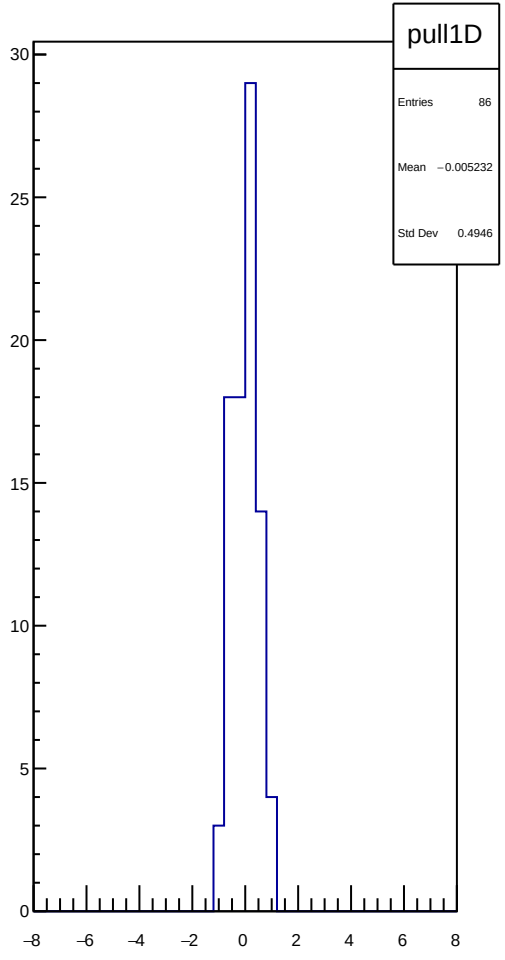

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5104 / 85
p0 139.3 ± 0.1074
170
165
160
155
150
145
140
135
130

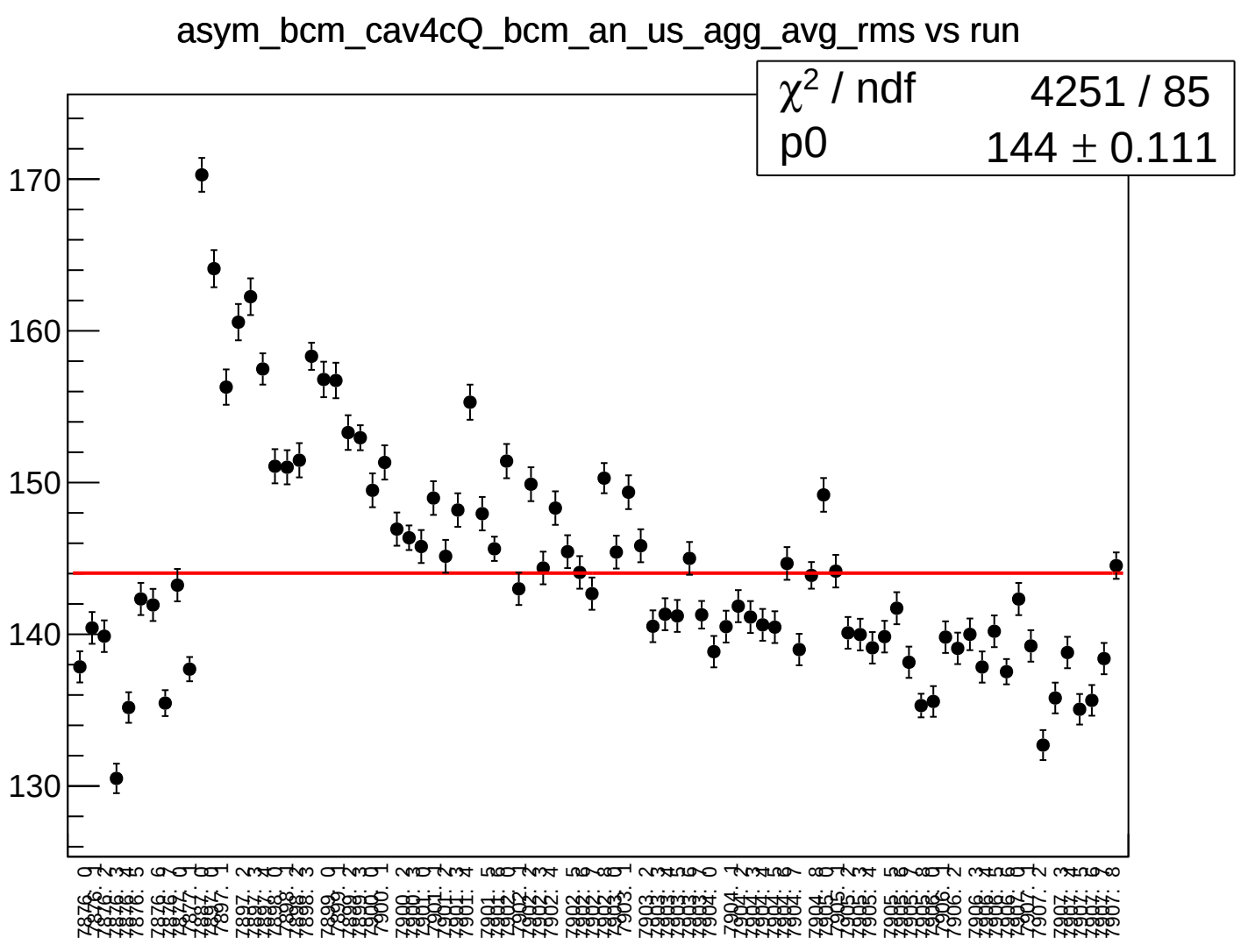

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 93.26 / 85
p0 −21.34 ± 25.54
1000
500
0
−500
−1000
pull
Entries 86
Mean 8.549
Std Dev 32.02
3
2
1
0
−1
−2

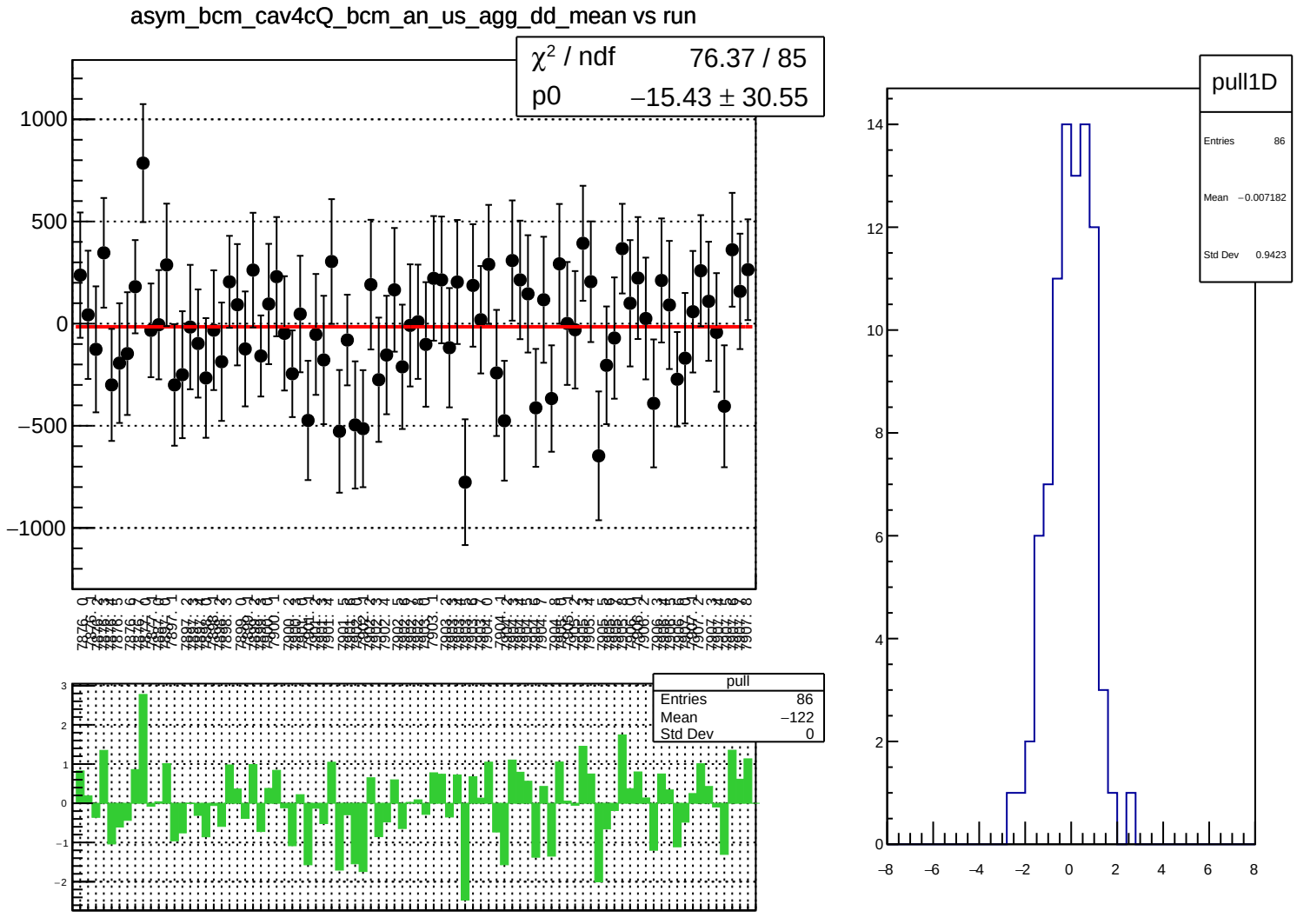

pull1D
Entries 86
Mean −0.004456
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

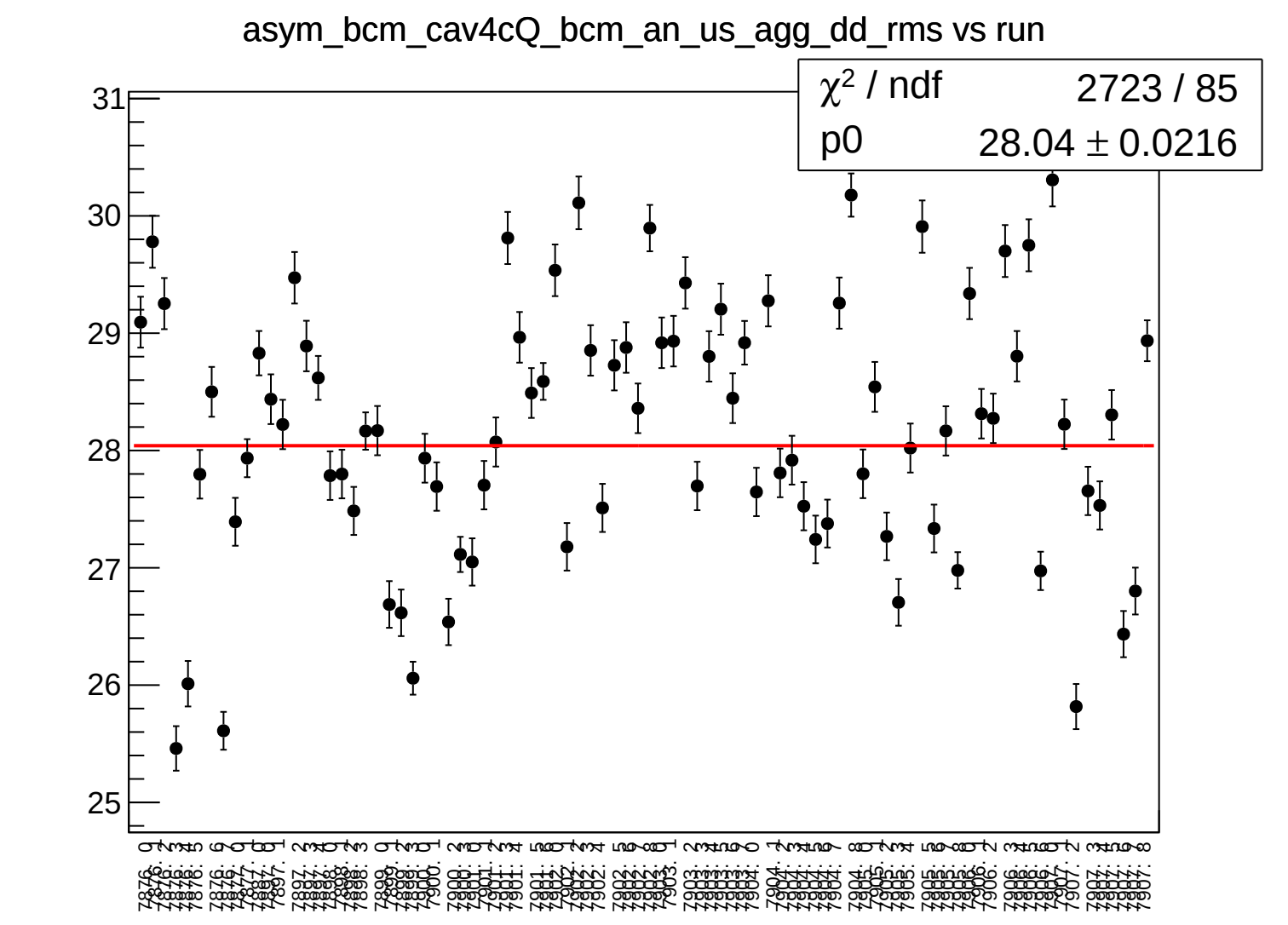

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1655 / 85
p0 23.45 ± 0.01806
25
24
23
22
21

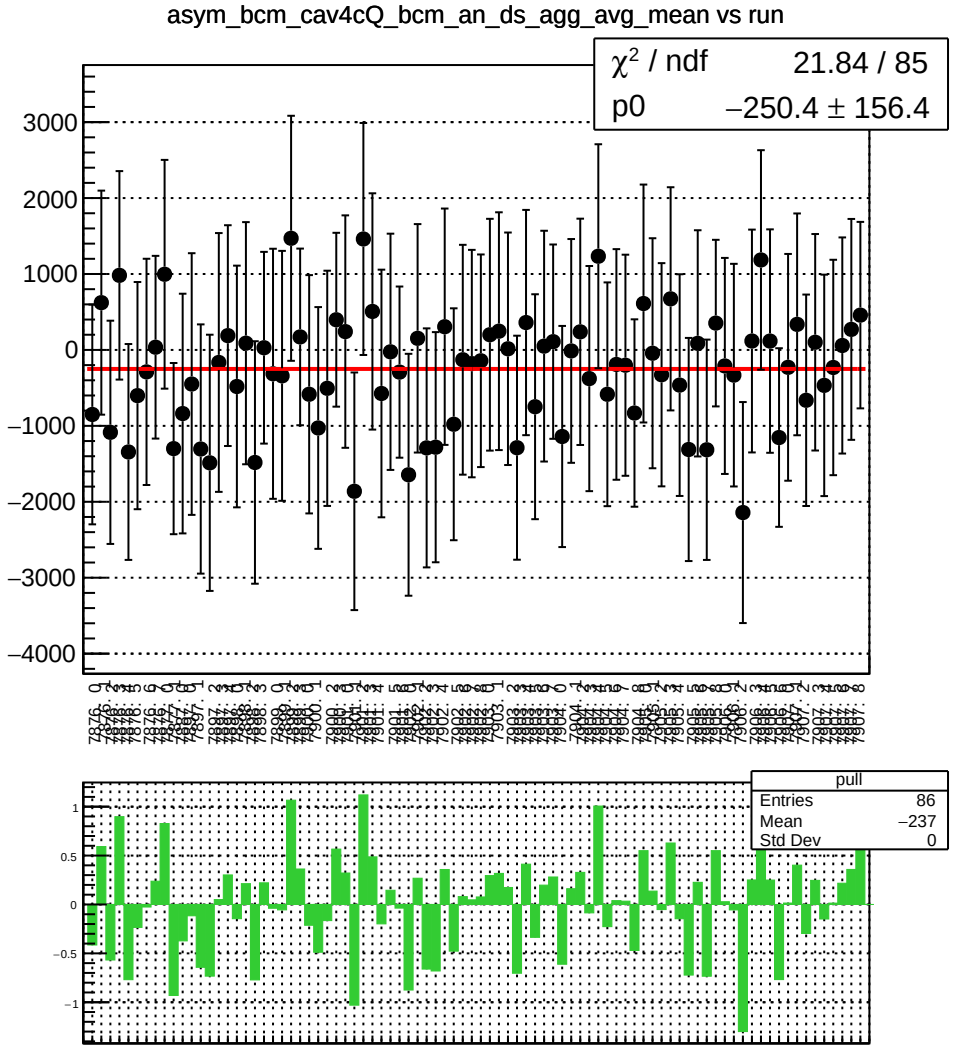

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.04 / 85
p0 −242.1± 157
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean −245.1
Std Dev 0
1
0.5
0
−0.5
−1

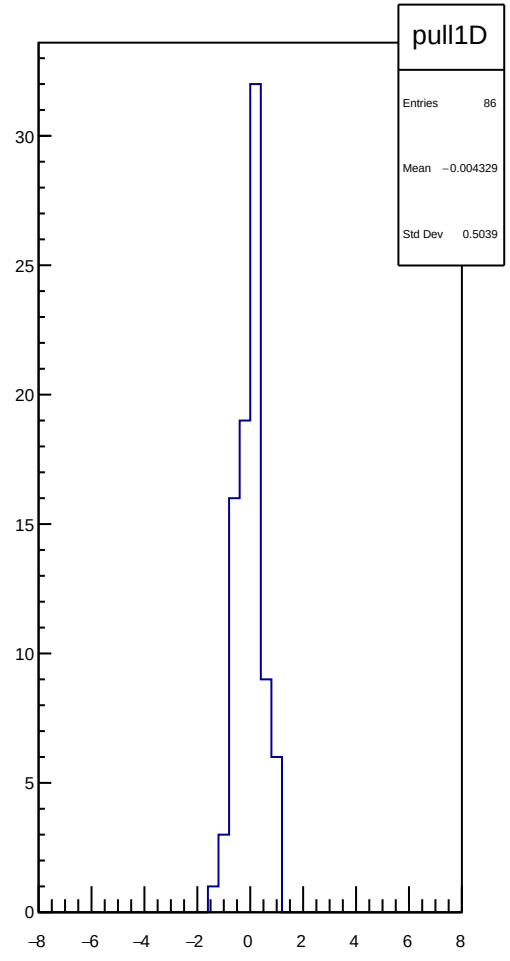

pull1D
Entries 86
Mean −0.005232
Std Dev 0.4946
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

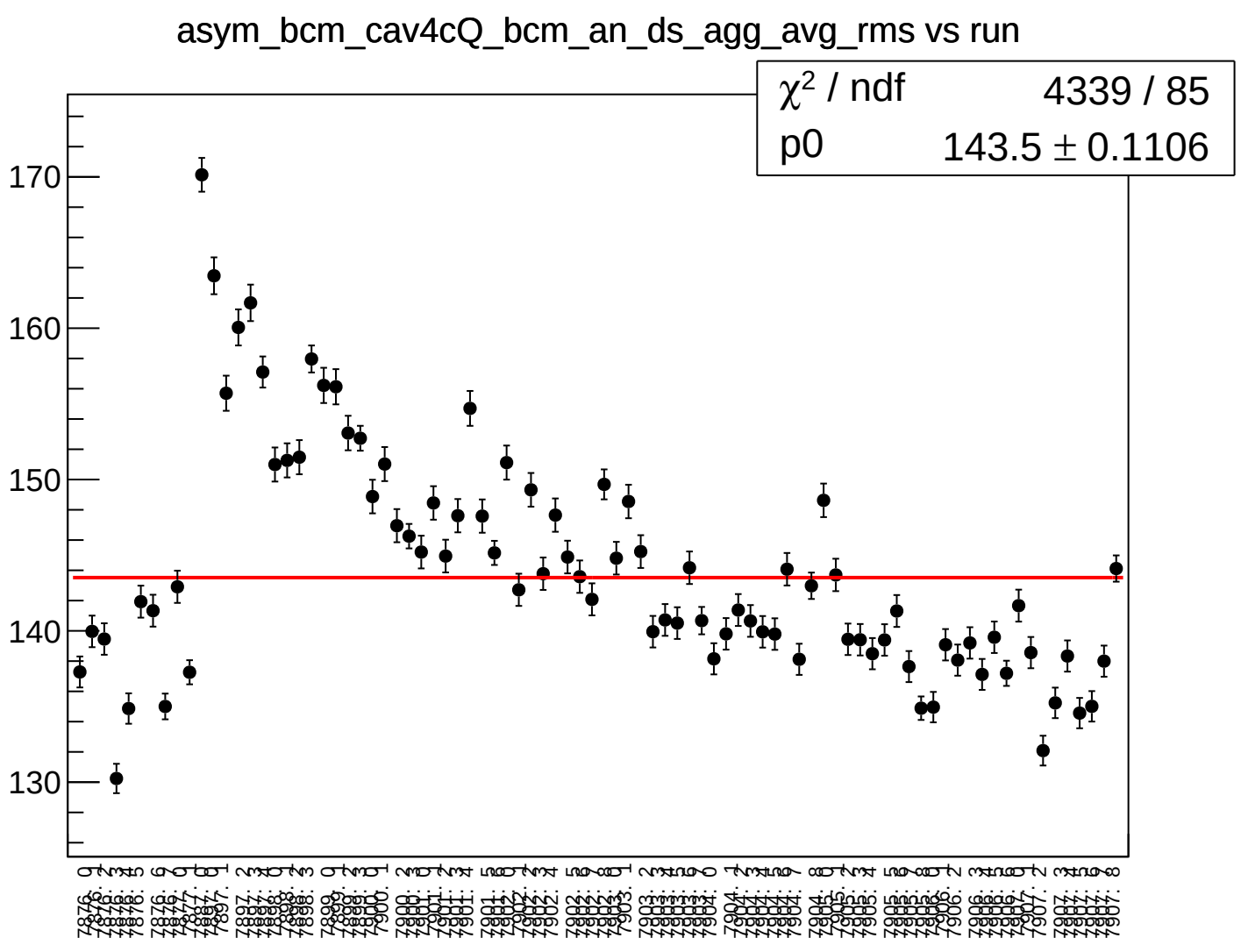

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4251 / 85
p0 144 ± 0.111
170
160
150
140
130

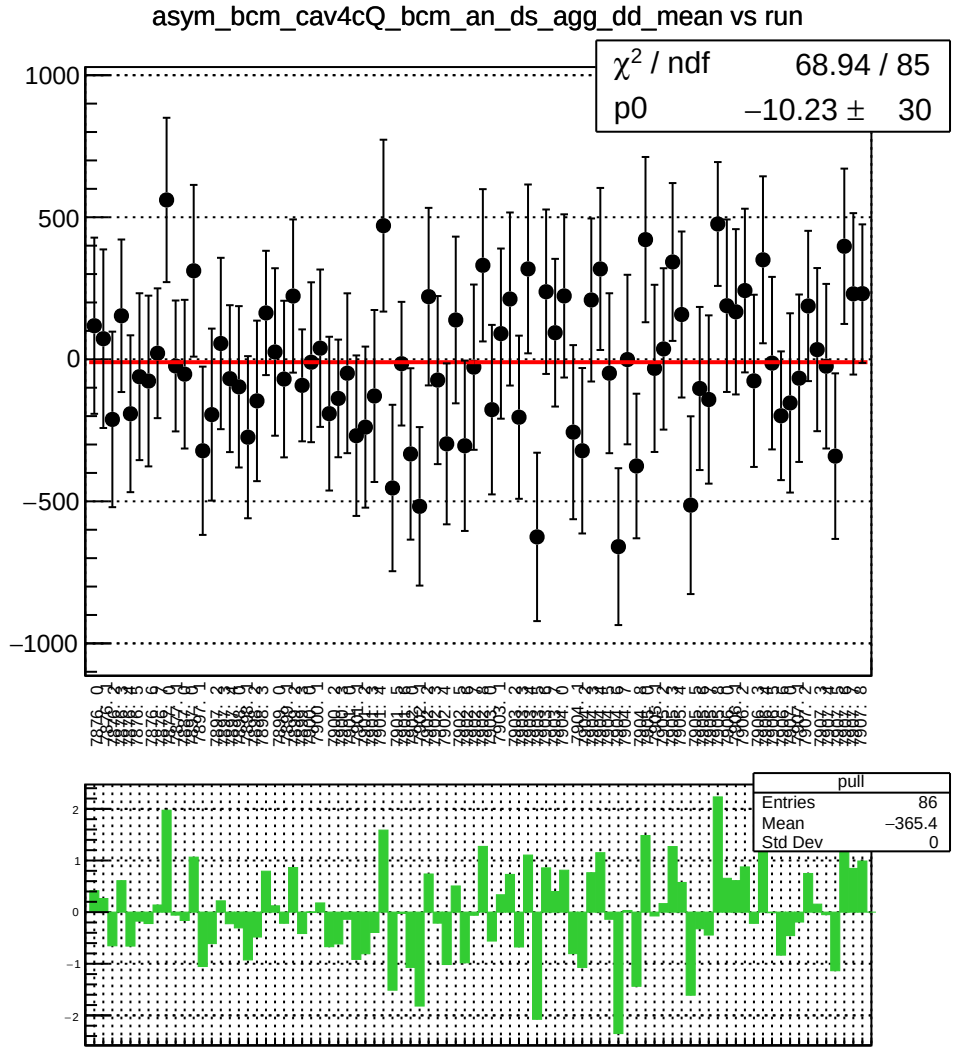

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 76.37 / 85
p0 −15.43 ± 30.55
1000
500
0
−500
−1000
pull
Entries 86
Mean −122
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.007182
Std Dev 0.9423
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

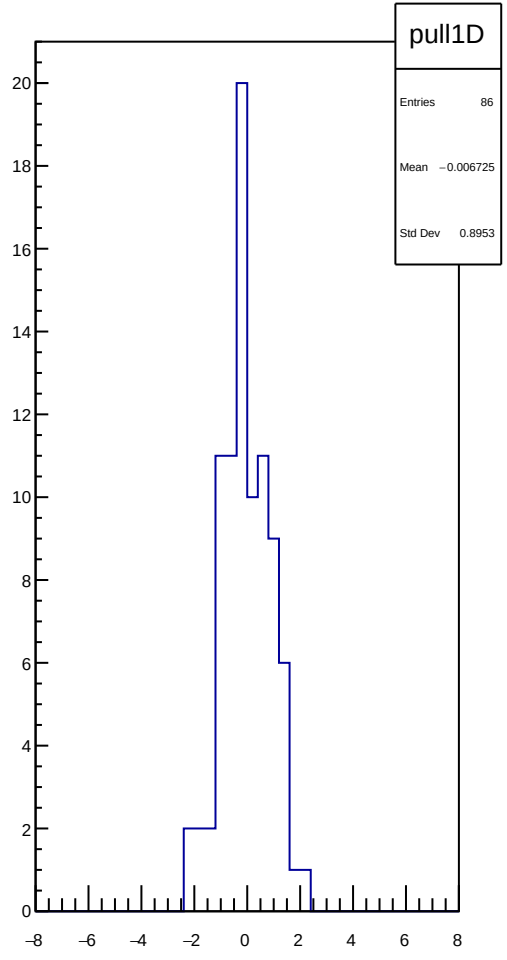

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2723 / 85
p0 28.04 ± 0.0216
31
30
29
28
27
26
25

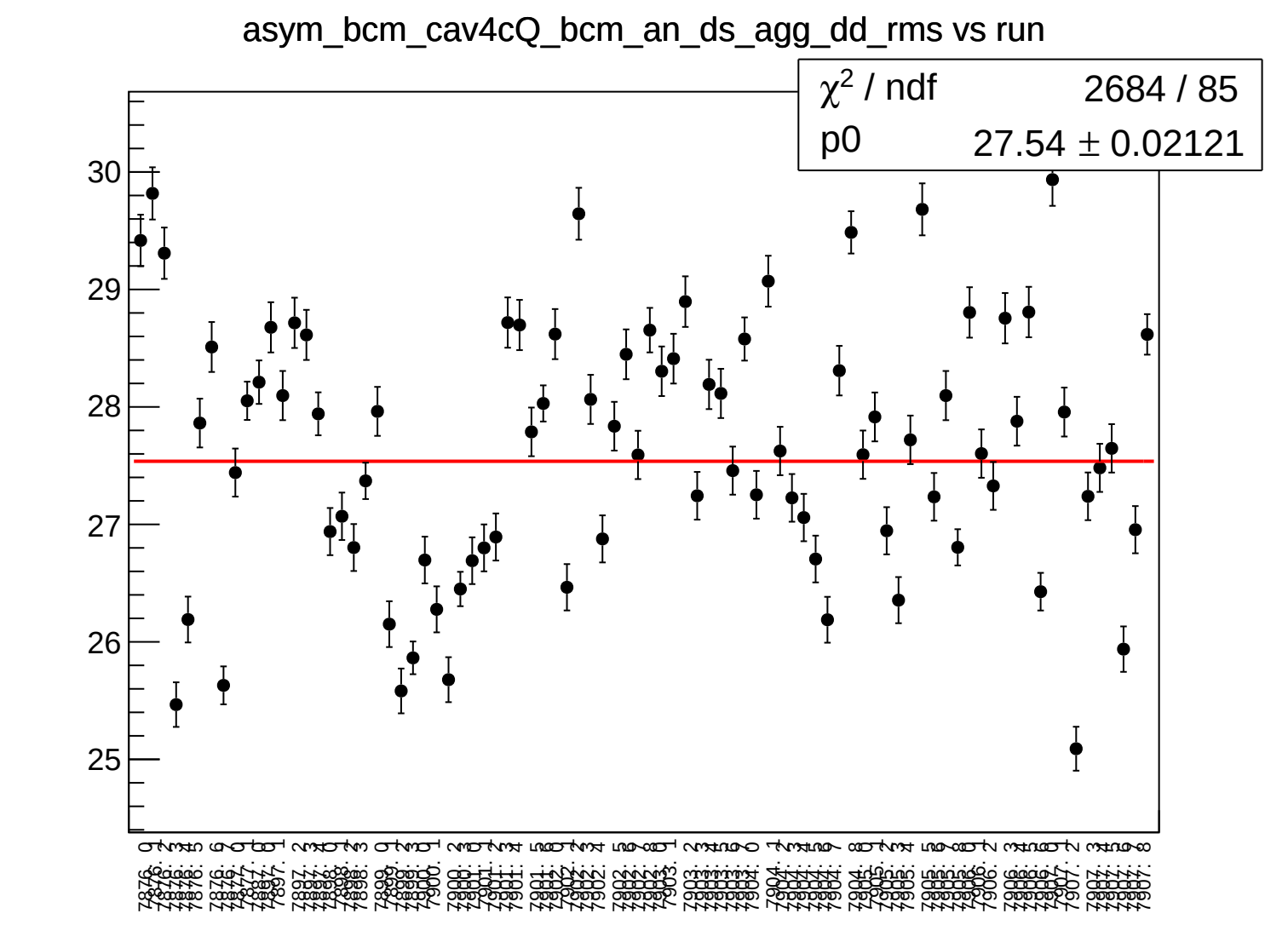

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.84 / 85
p0 −250.4 ± 156.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean −237
Std Dev 0
1
0.5
0
−0.5
−1

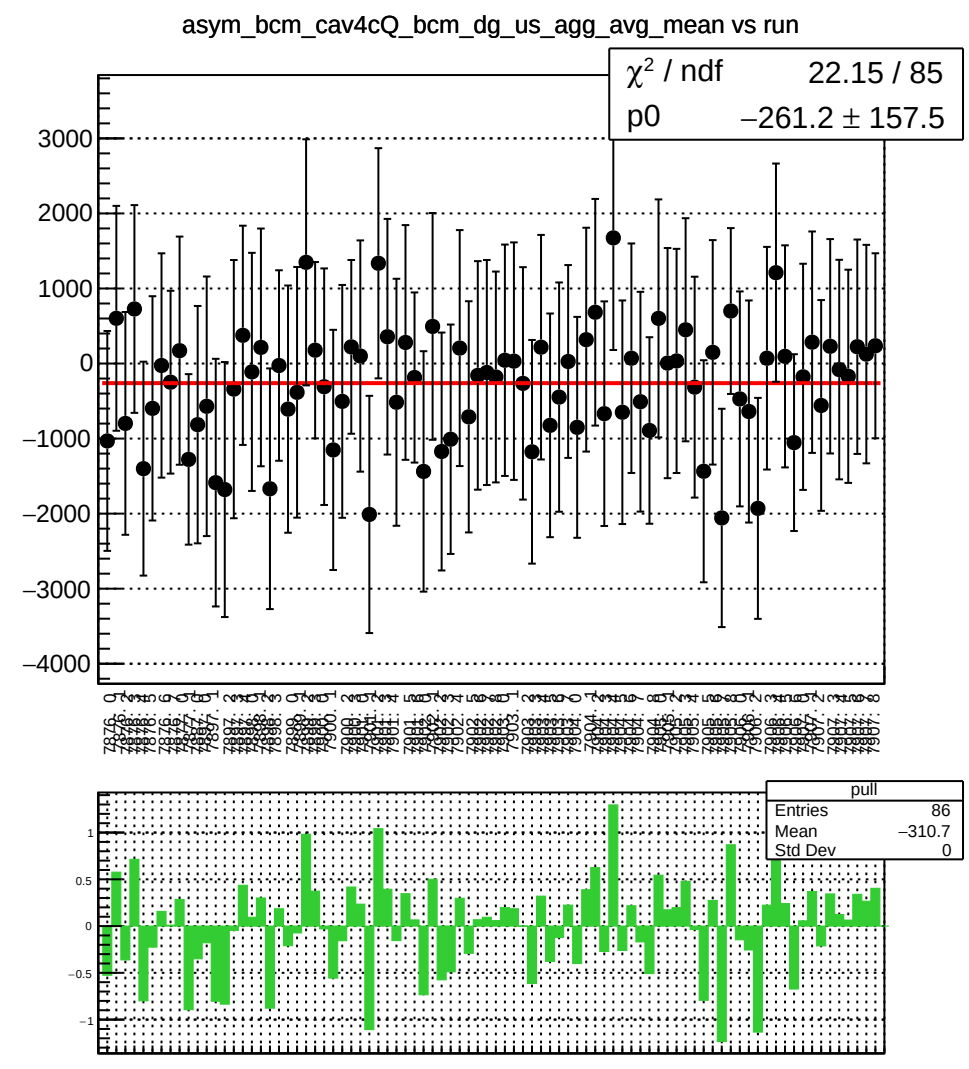

pull1D
Entries 86
Mean −0.004329
Std Dev 0.5039
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

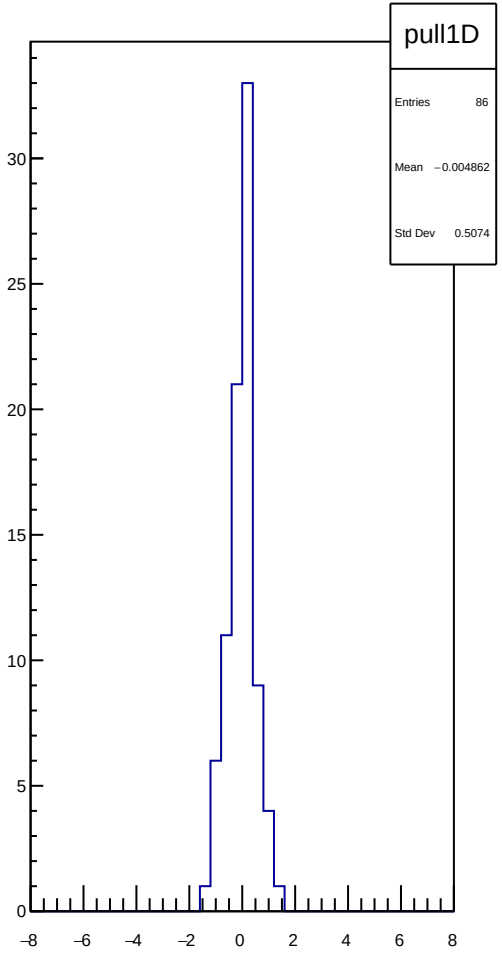

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4339 / 85
p0 143.5 ± 0.1106
170
160
150
140
130

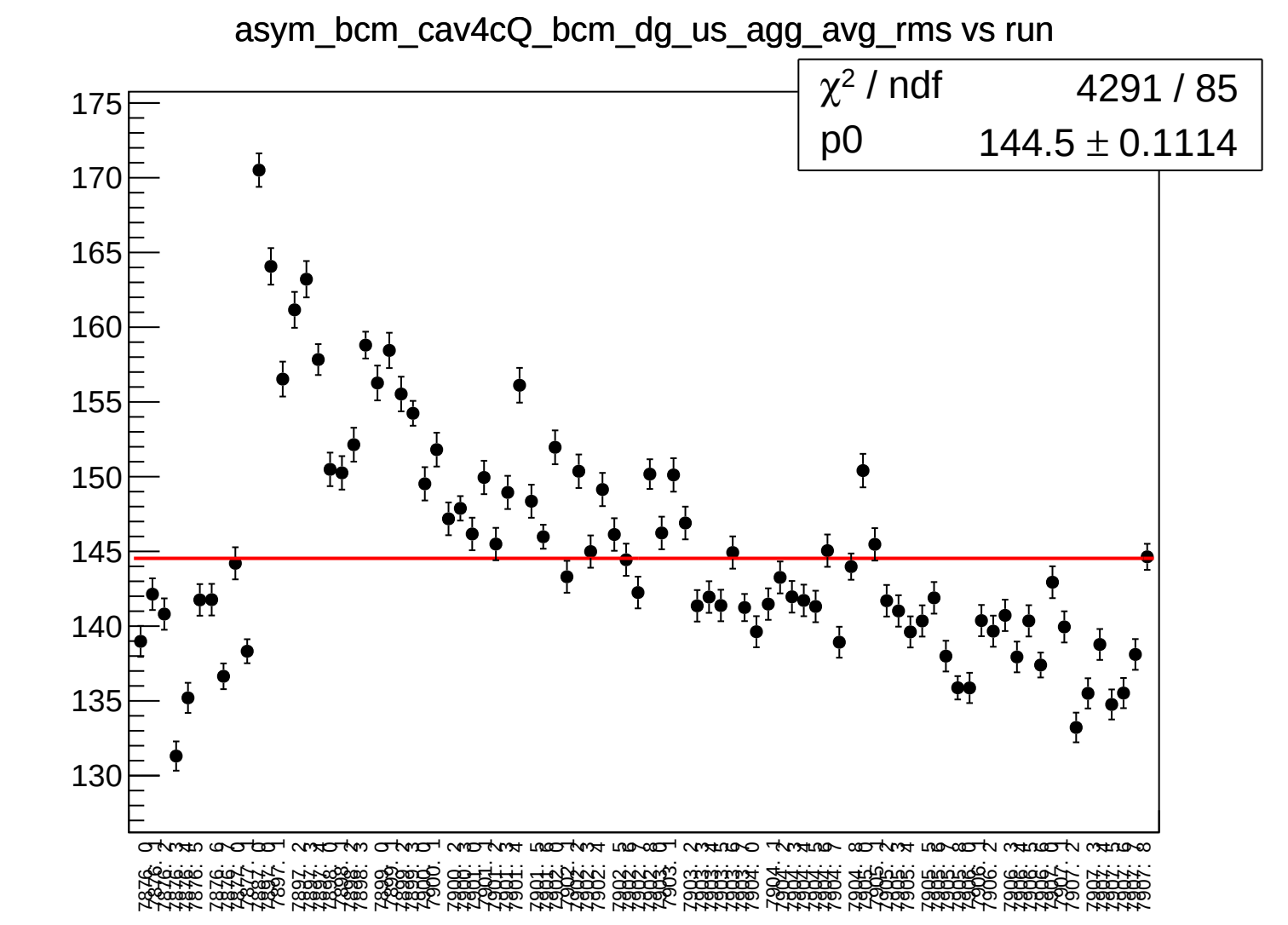

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 68.94 / 85
p0 −10.23 ± 30
1000
500
0
−500
−1000
pull
Entries 86
Mean −365.4
Std Dev 0
2
1
0
−1
−2

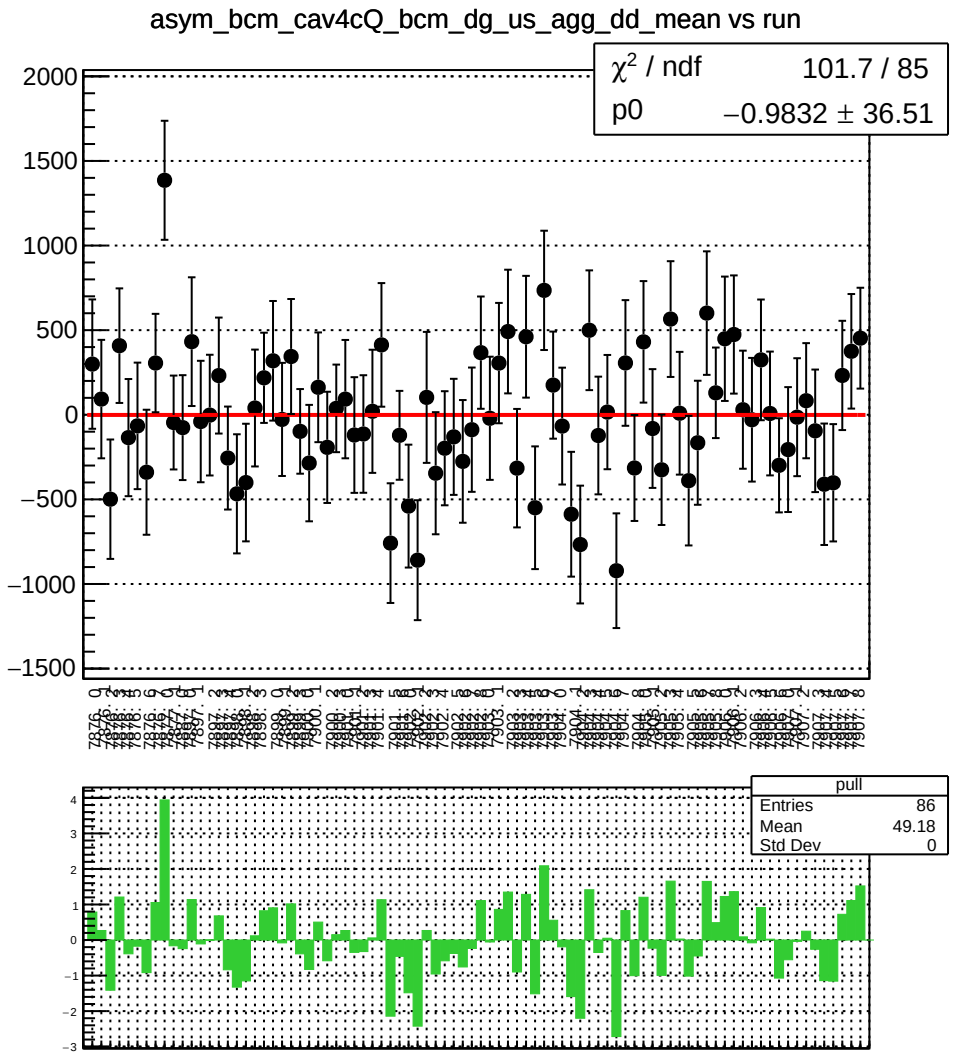

pull1D
Entries 86
Mean −0.006725
Std Dev 0.8953
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

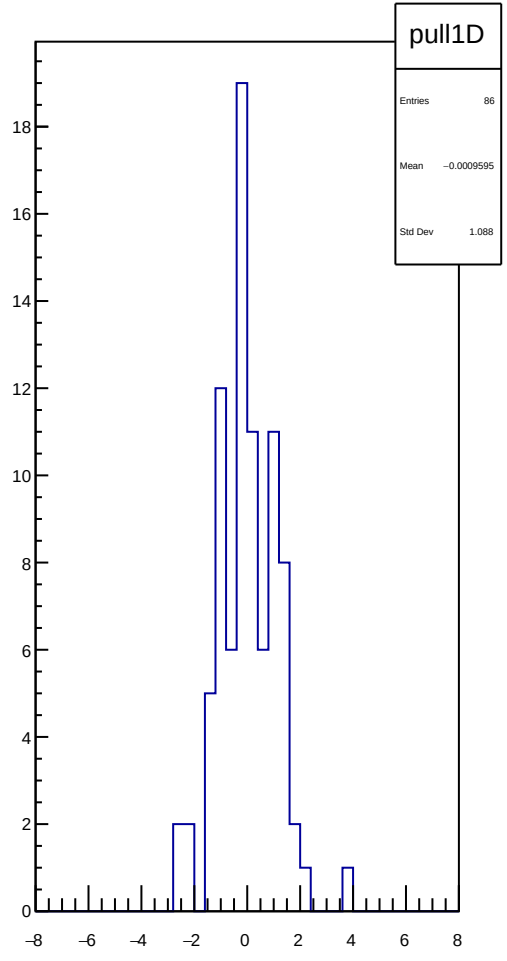

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2684 / 85
p0 27.54 ± 0.02121
30
29
28
27
26
25

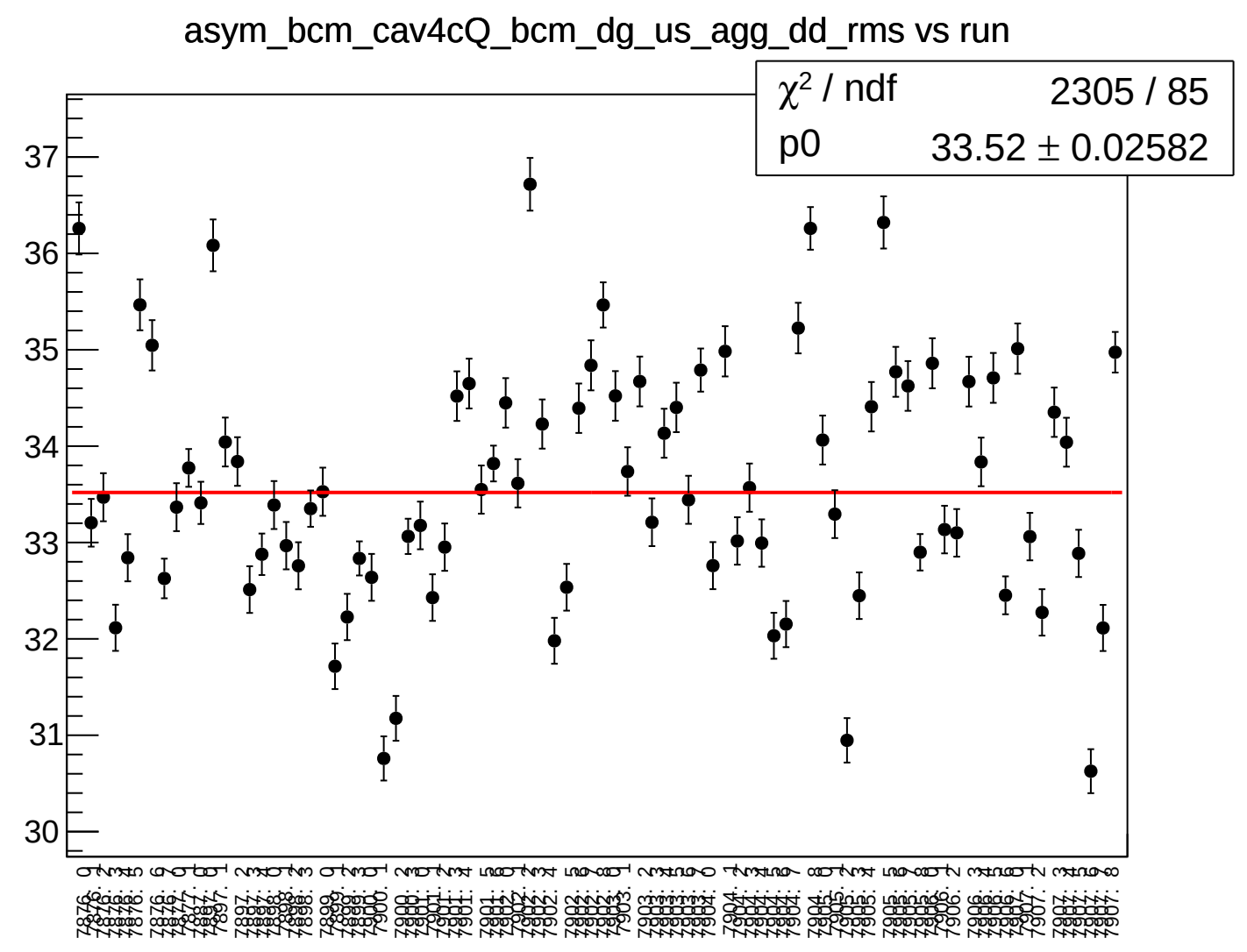

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 22.15 / 85
p0 −261.2 ± 157.5
pull
Entries 86
Mean −310.7
Std Dev 0

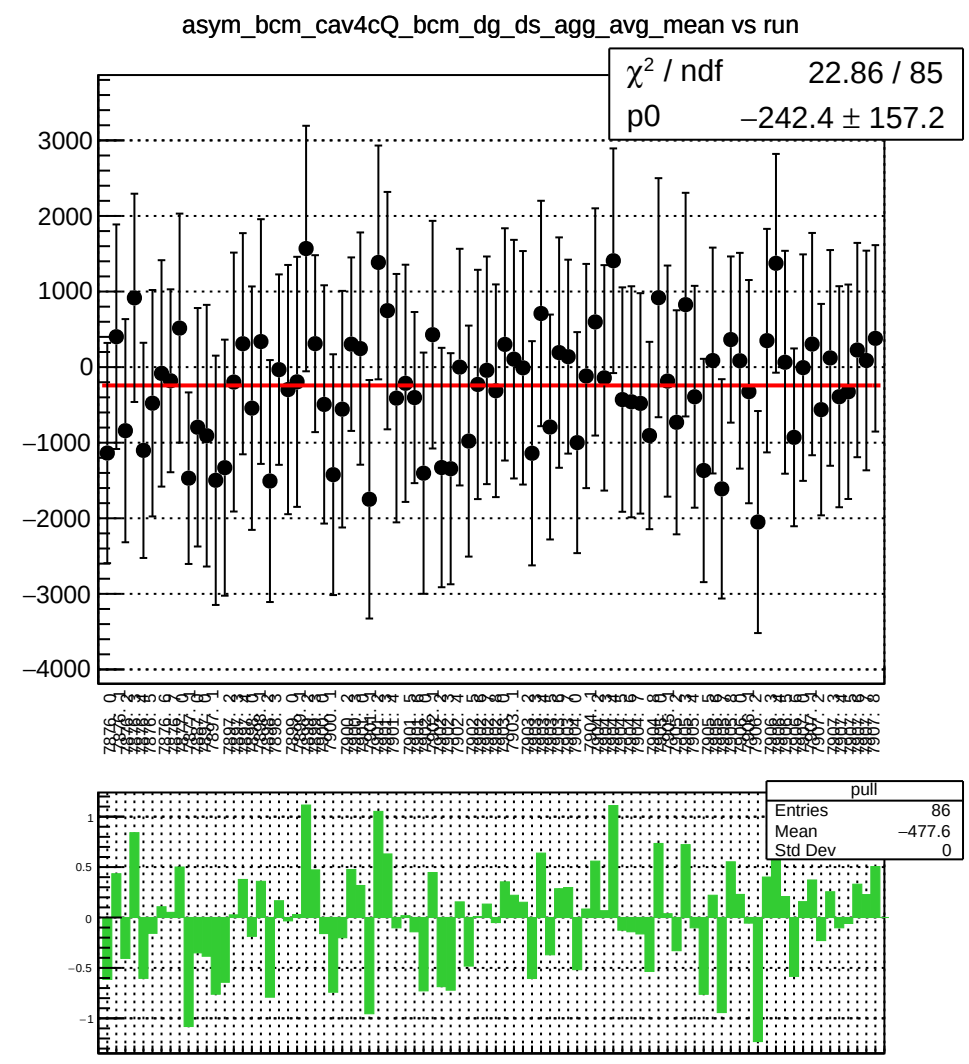

pull1D
Entries 86
Mean −0.004862
Std Dev 0.5074

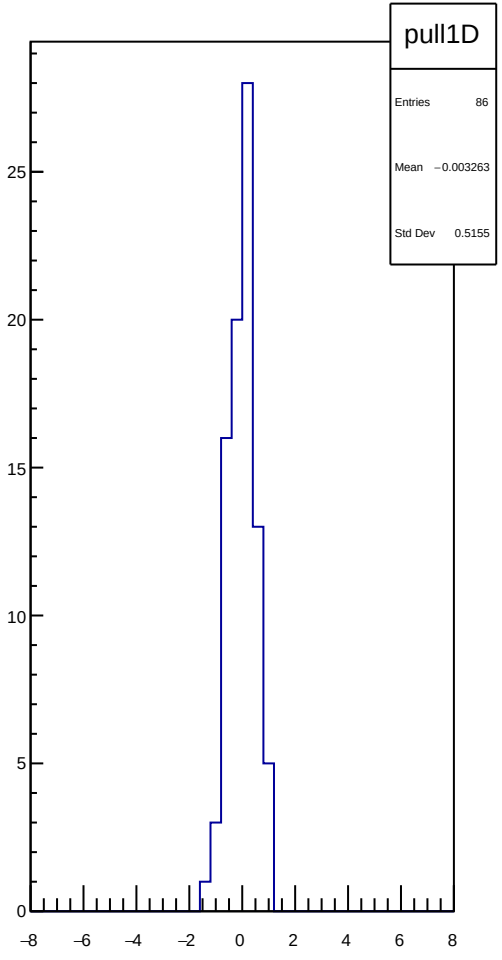

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4291 / 85
p0 144.5 ± 0.1114
175
170
165
160
155
150
145
140
135
130

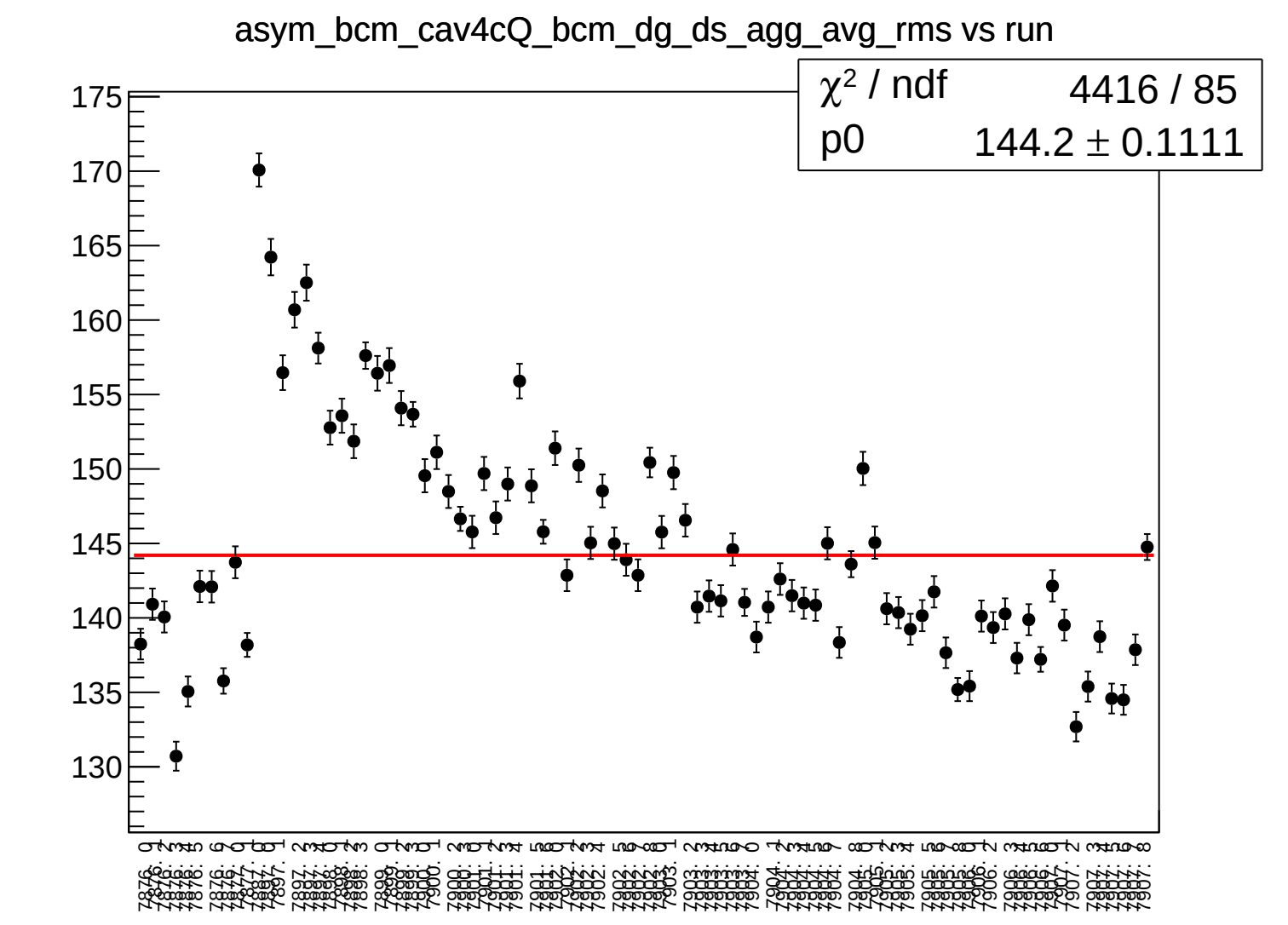

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 101.7 / 85
p0 −0.9832 ± 36.51
pull
Entries 86
Mean 49.18
Std Dev 0

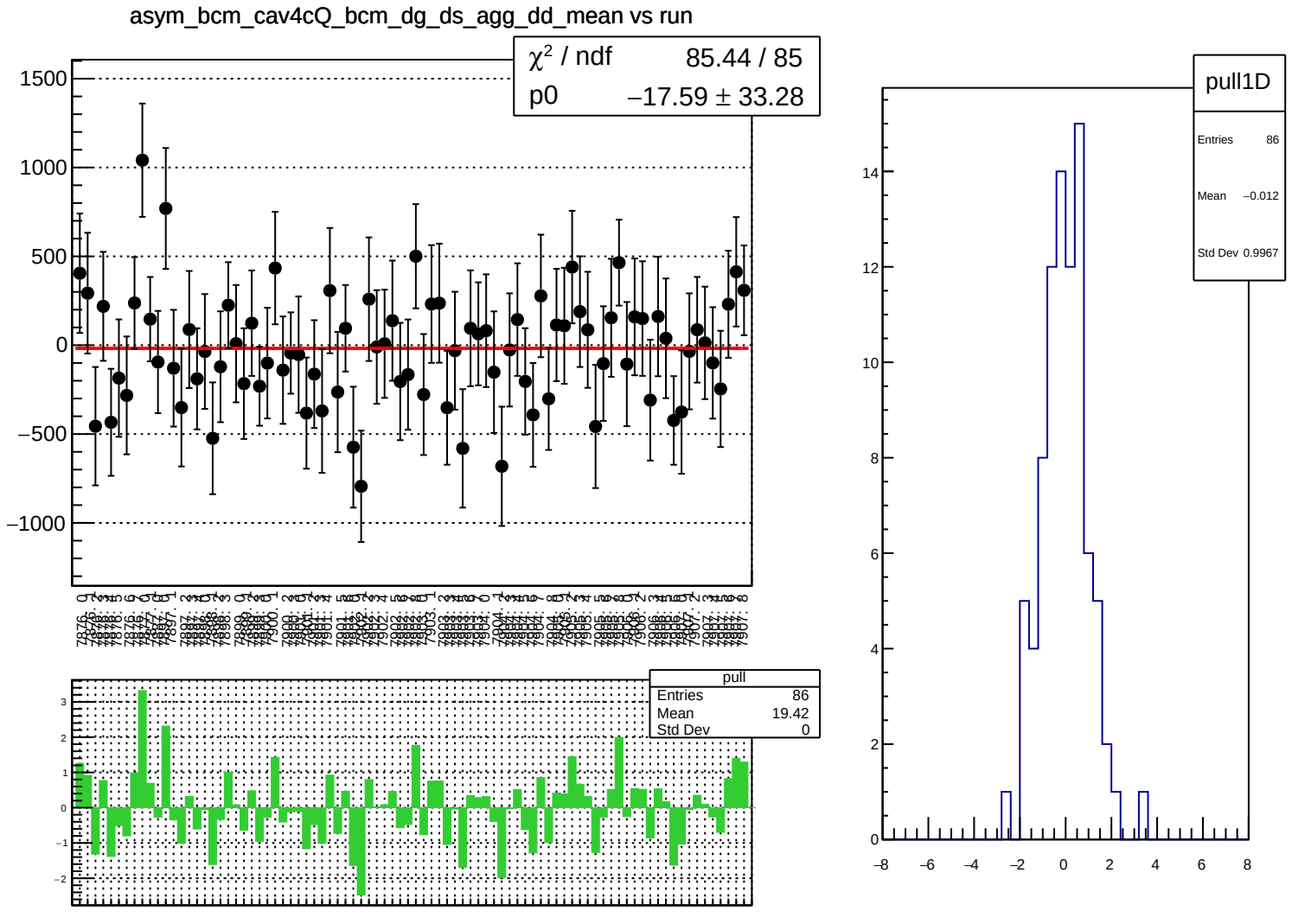

pull1D
Entries 86
Mean −0.0009595
Std Dev 1.088

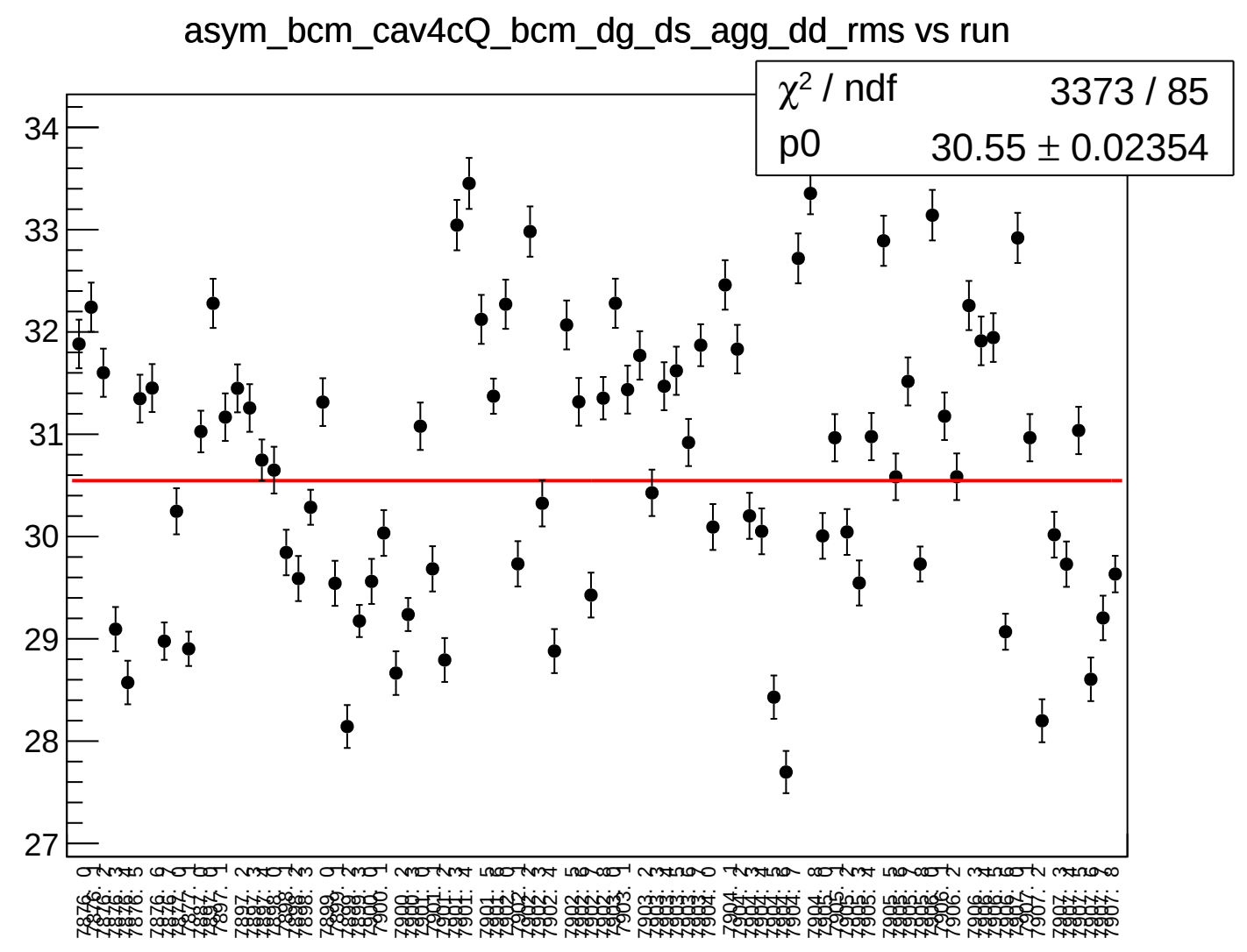

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2305 / 85
p0 33.52 ± 0.02582
37
36
35
34
33
32
31
30

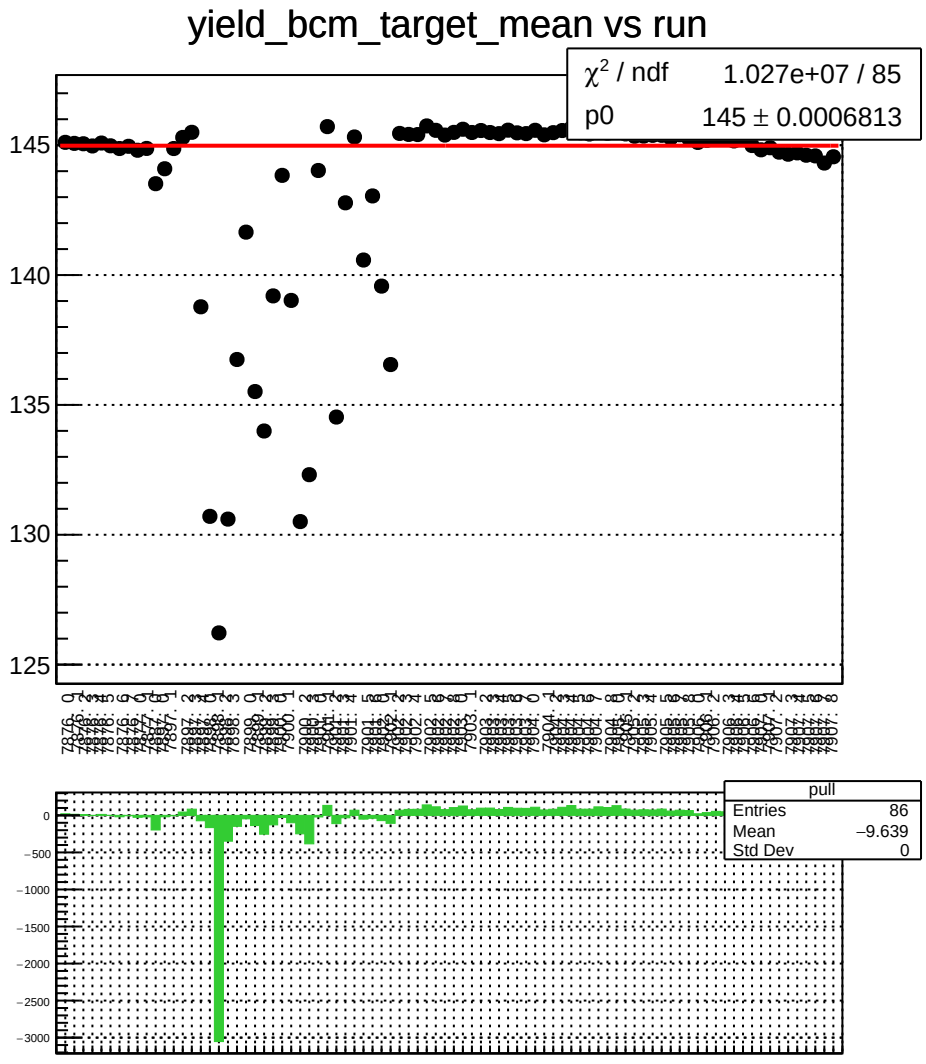

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 22.86 / 85
p0 −242.4 ± 157.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean −477.6
Std Dev 0
1
0.5
0
−0.5
−1

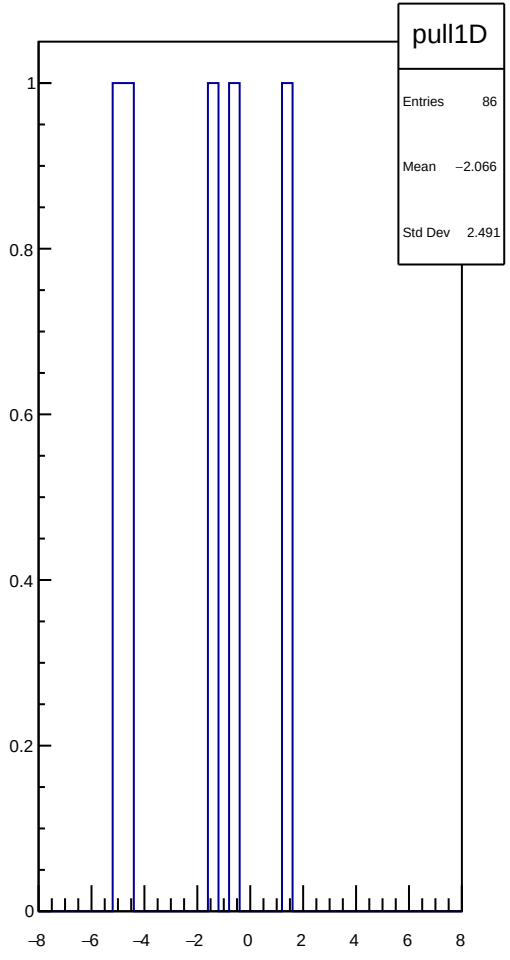

pull1D
Entries 86
Mean −0.003263
Std Dev 0.5155
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

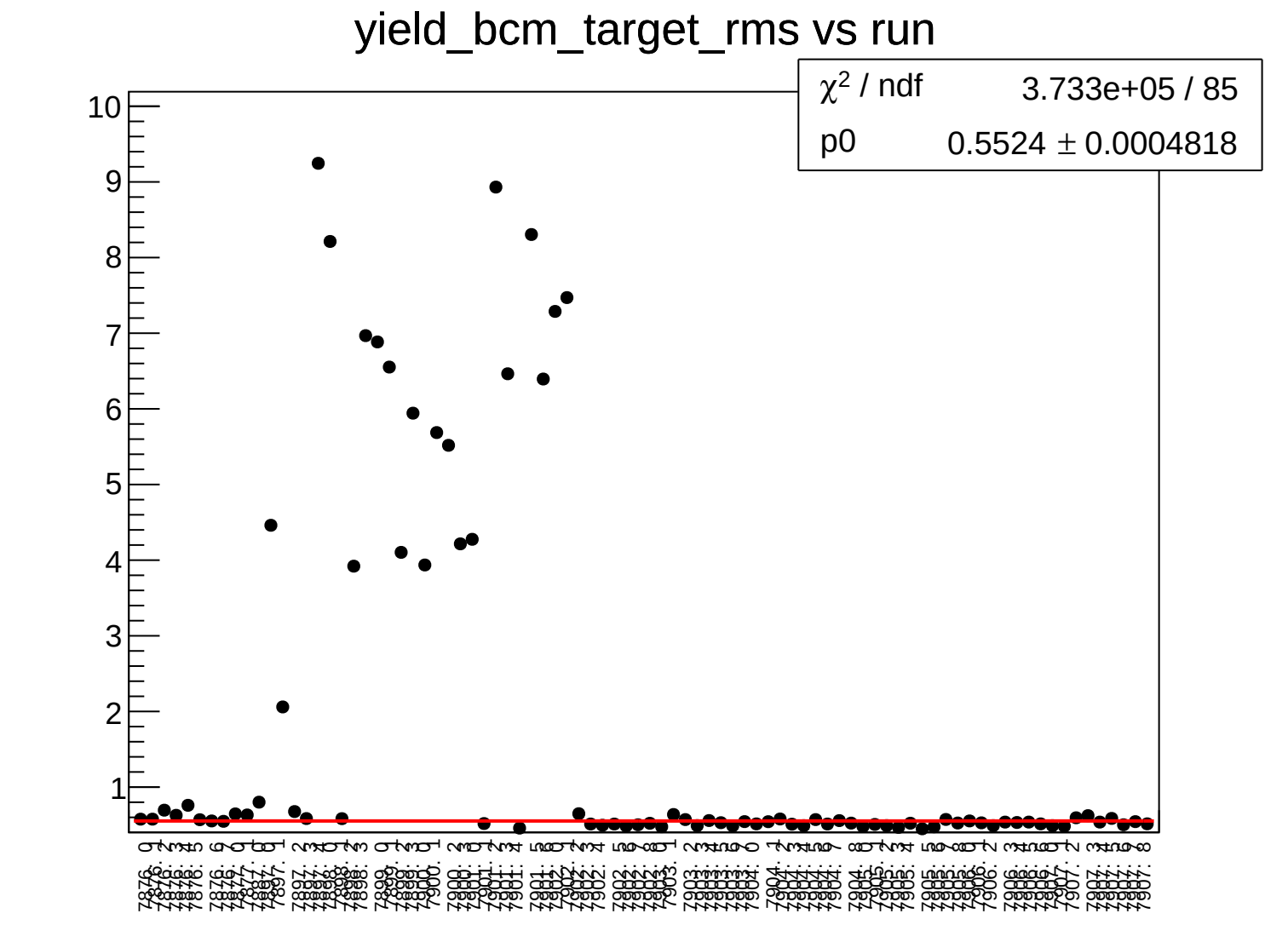

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4416 / 85
p0 144.2 ± 0.1111
175
170
165
160
155
150
145
140
135
130

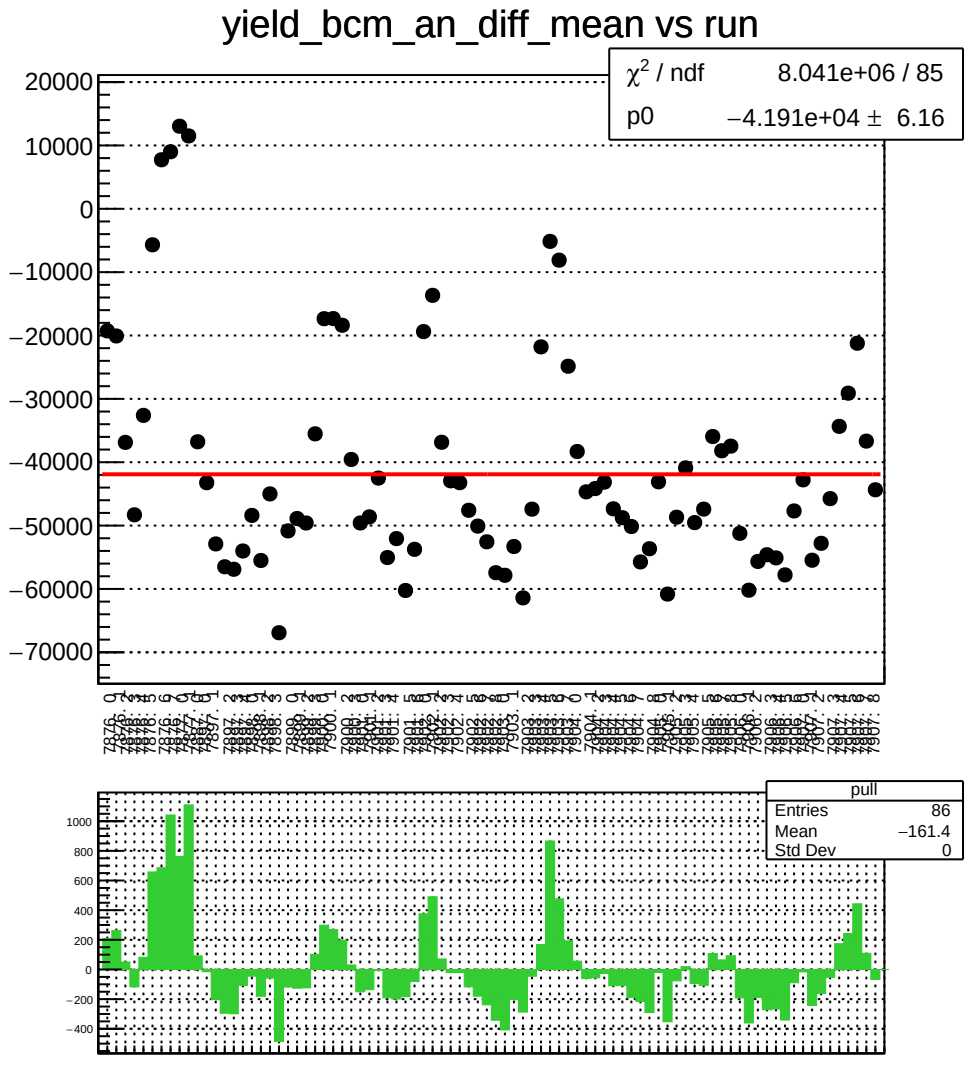

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 85.44 / 85
p0 −17.59 ± 33.28
1500
1000
500
0
−500
−1000
pull
Entries 86
Mean 19.42
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.012
Std Dev 0.9967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

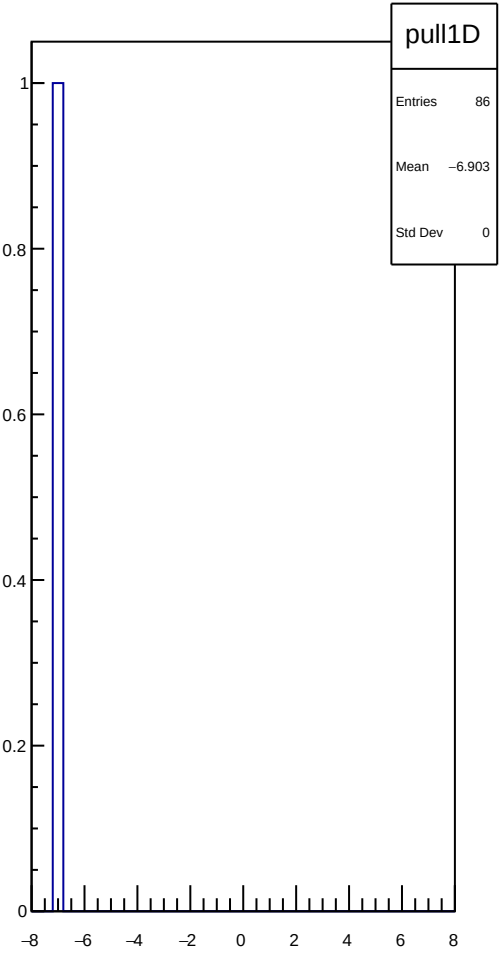

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3373 / 85
p0 30.55 ± 0.02354
34
33
32
31
30
29
28
27

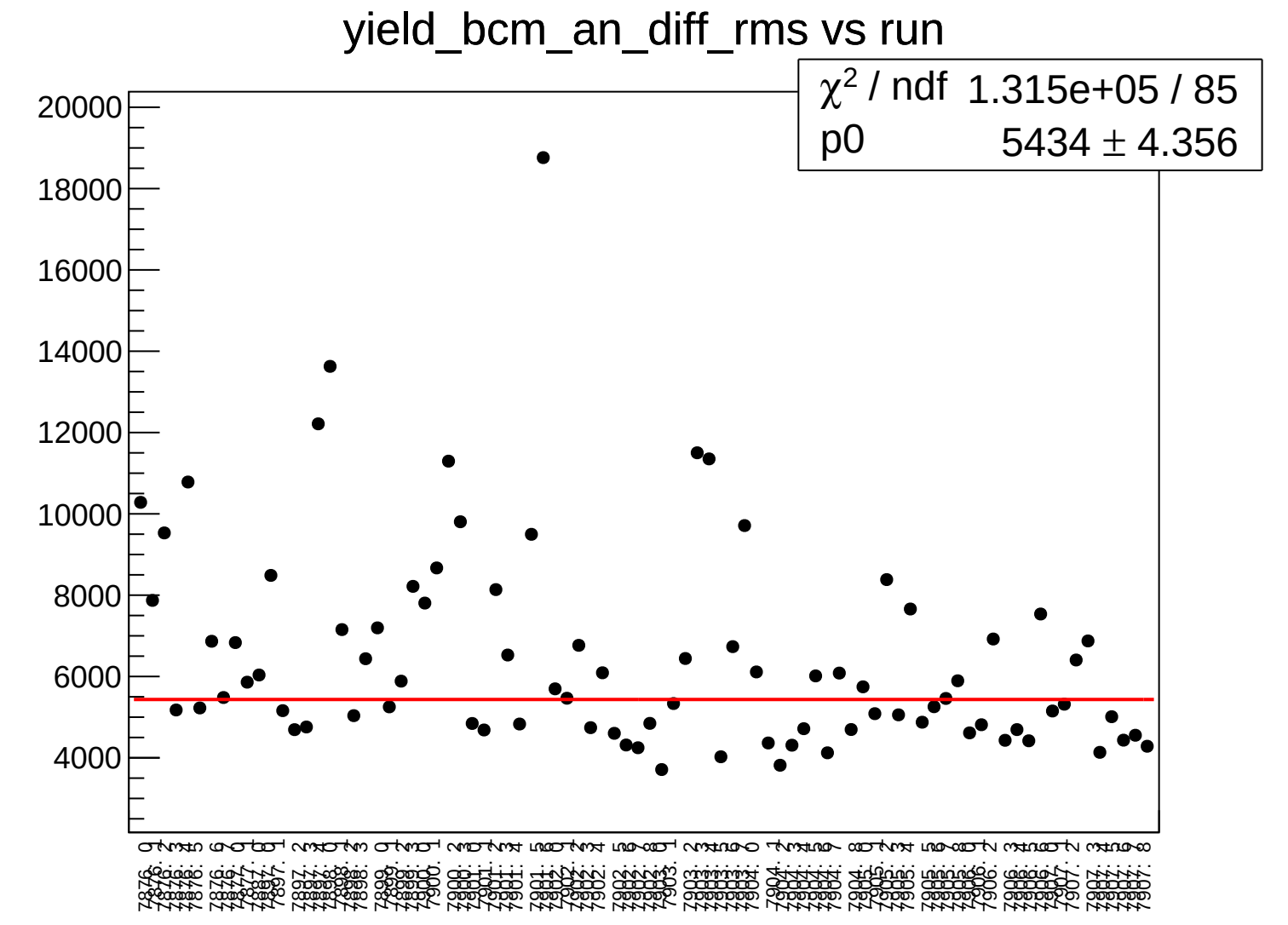

yield_bcm_target_mean vs run
χ² / ndf 1.027e+07 / 85
p0 145 ± 0.0006813
145
140
135
130
125
pull
Entries 86
Mean −9.639
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000

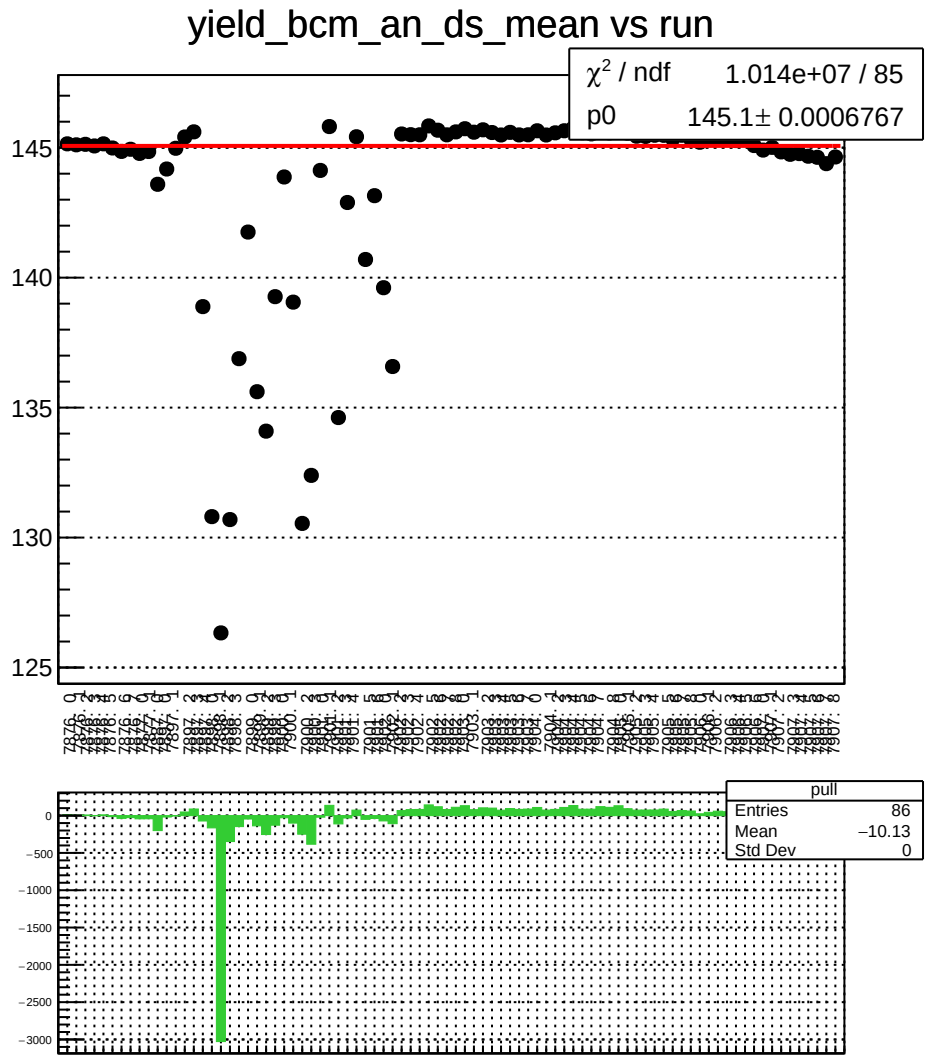

pull1D
Entries 86
Mean −2.066
Std Dev 2.491
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

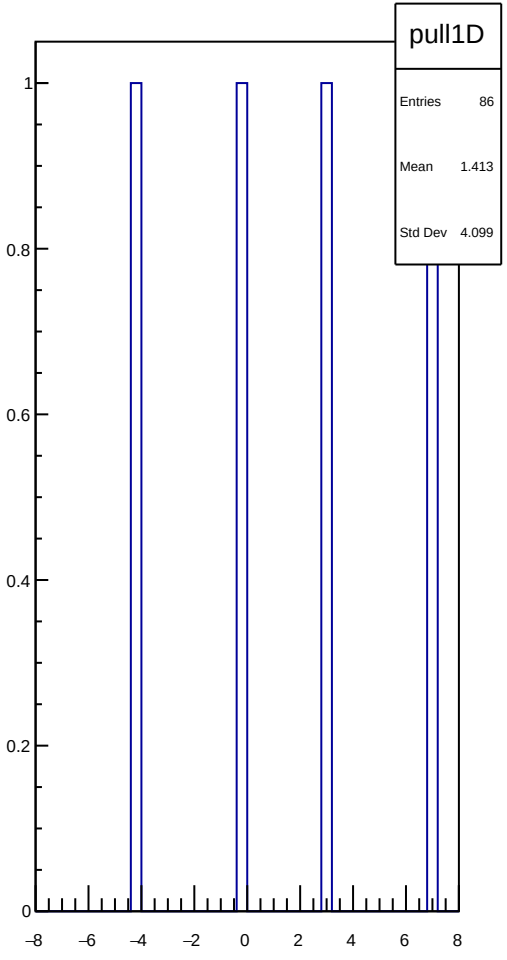

yield_bcm_target_rms vs run
χ² / ndf 3.733e+05 / 85
p0 0.5524 ± 0.0004818
10
9
8
7
6
5
4
3
2
1

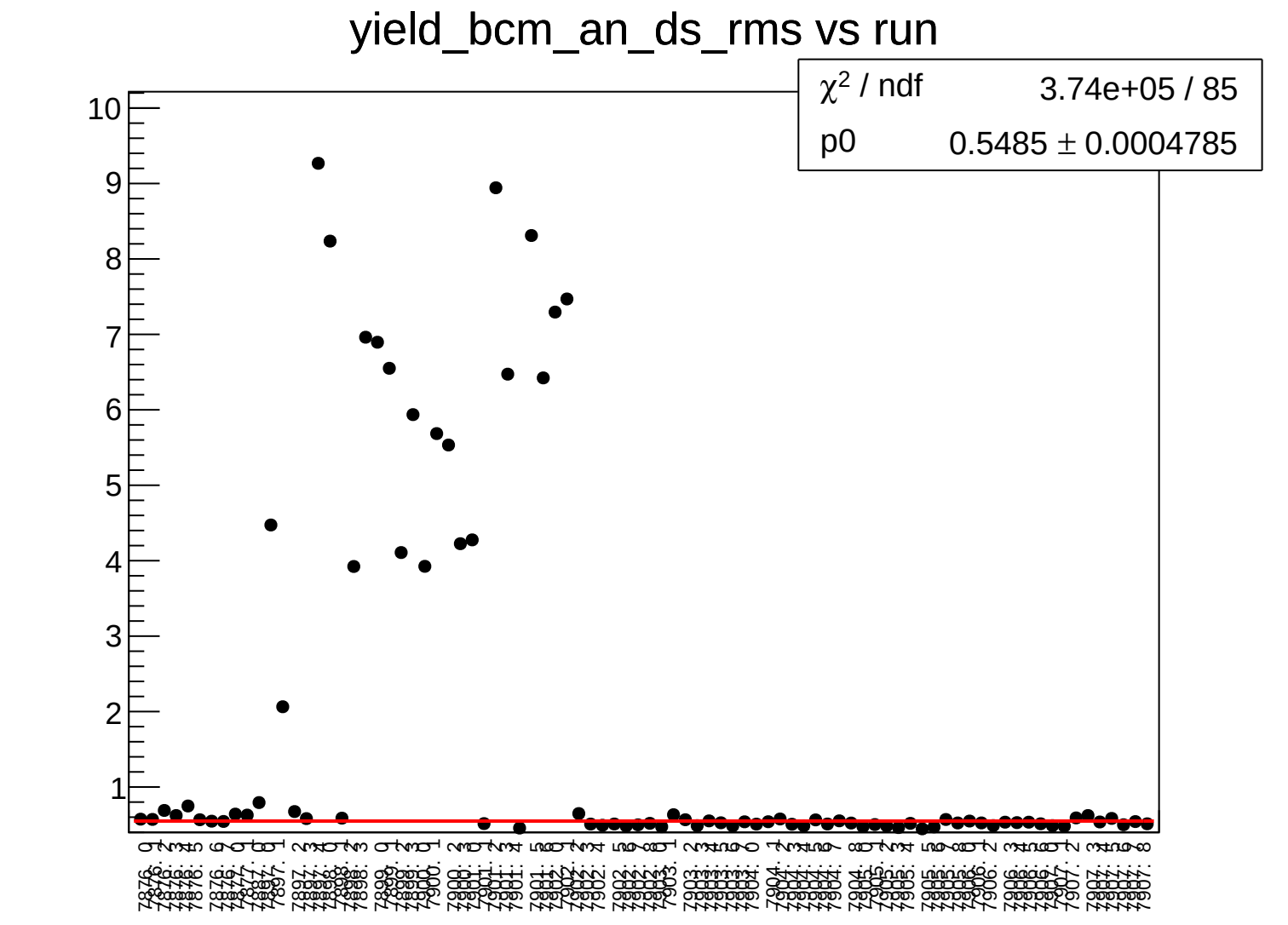

yield_bcm_an_diff_mean vs run
χ² / ndf 8.041e+06 / 85
p0 −4.191e+04 ± 6.16
pull
Entries 86
Mean −161.4
Std Dev 0

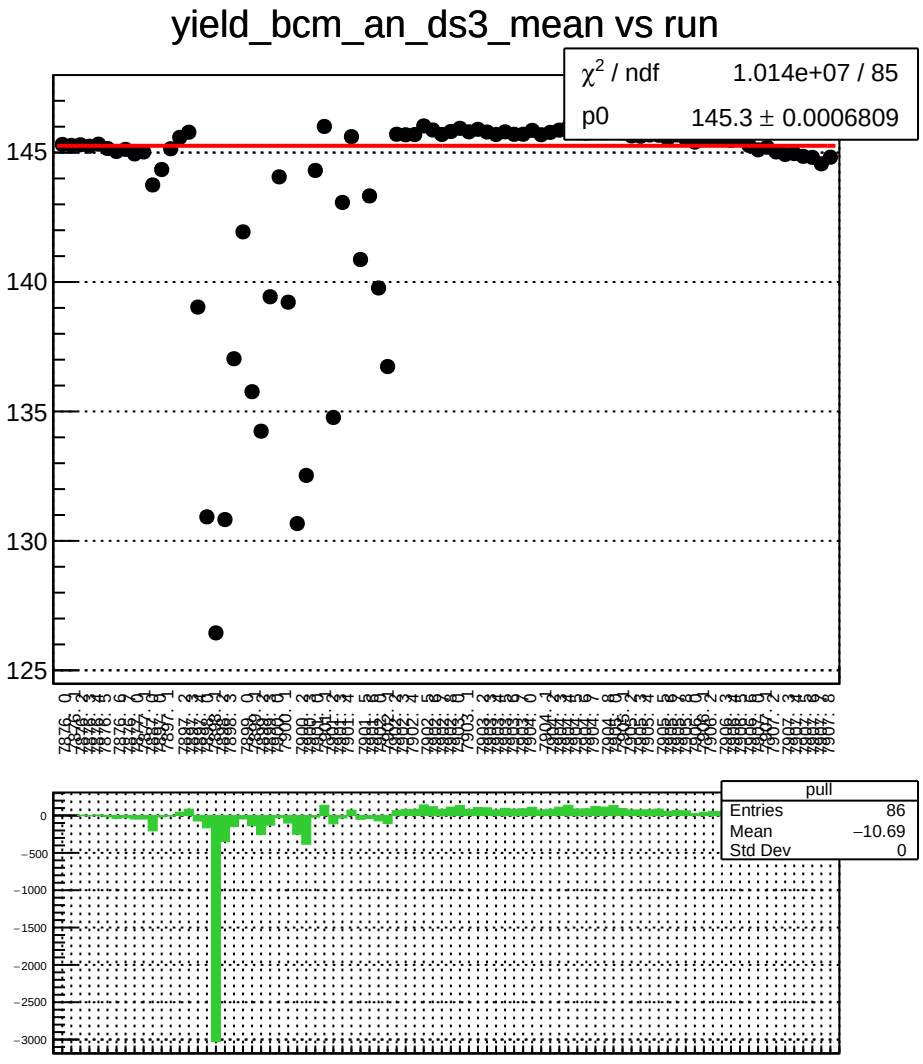

pull1D
Entries 86
Mean −6.903
Std Dev 0

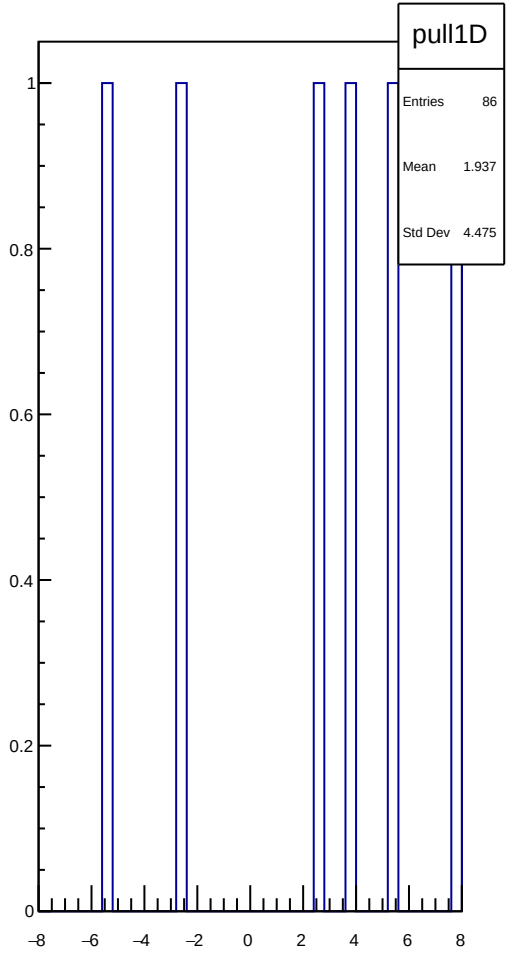

yield_bcm_an_diff_rms vs run
χ^2 / ndf 1.315e+05 / 85
p0 5434 ± 4.356
20000
18000
16000
14000
12000
10000
8000
6000
4000

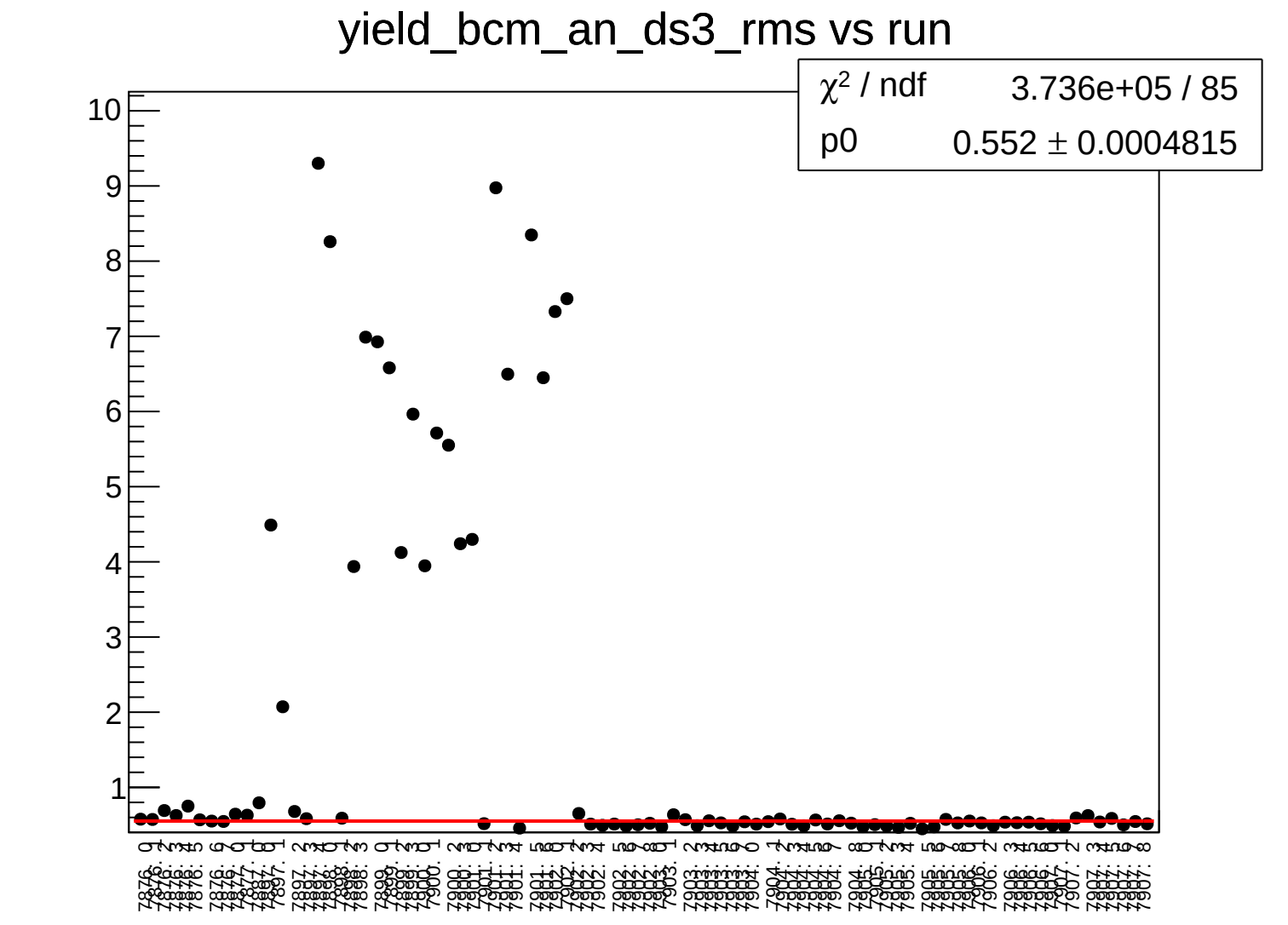

yield_bcm_an_ds_mean vs run
χ² / ndf 1.014e+07 / 85
p0 145.1± 0.0006767
145
140
135
130
125
pull
Entries 86
Mean −10.13
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000

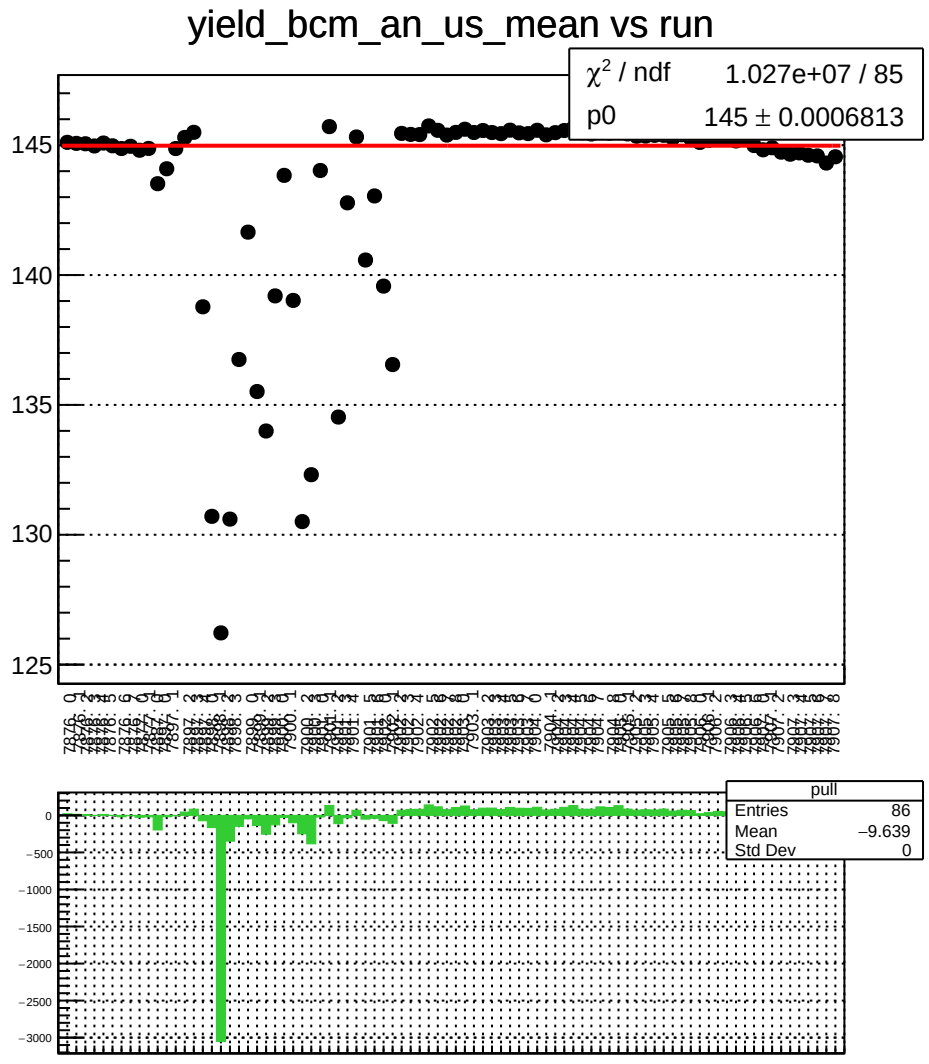

pull1D
Entries 86
Mean 1.413
Std Dev 4.099
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

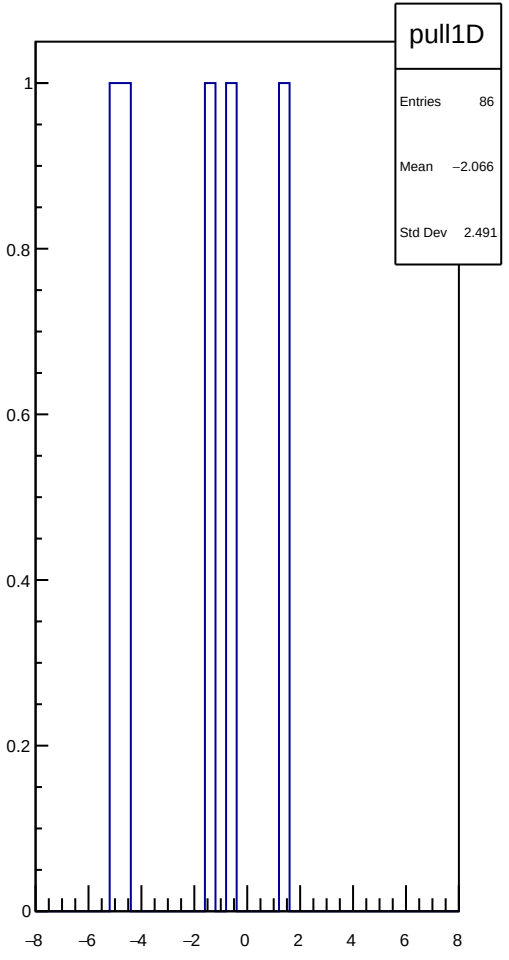

yield_bcm_an_ds_rms vs run
χ² / ndf 3.74e+05 / 85
p0 0.5485 ± 0.0004785
10
9
8
7
6
5
4
3
2
1

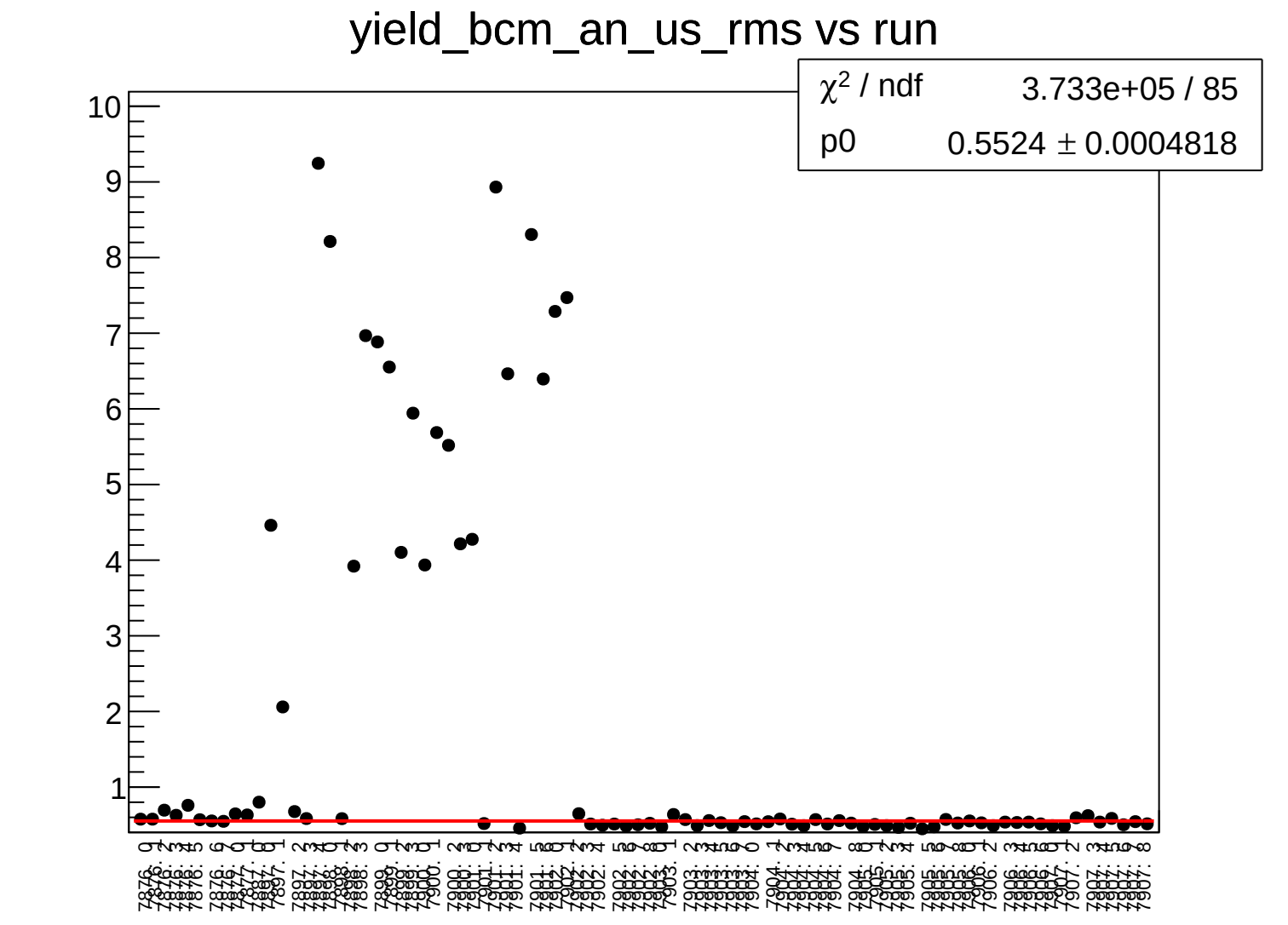

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.014e+07 / 85
p0 145.3 ± 0.0006809
145
140
135
130
125
pull
Entries 86
Mean −10.69
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000

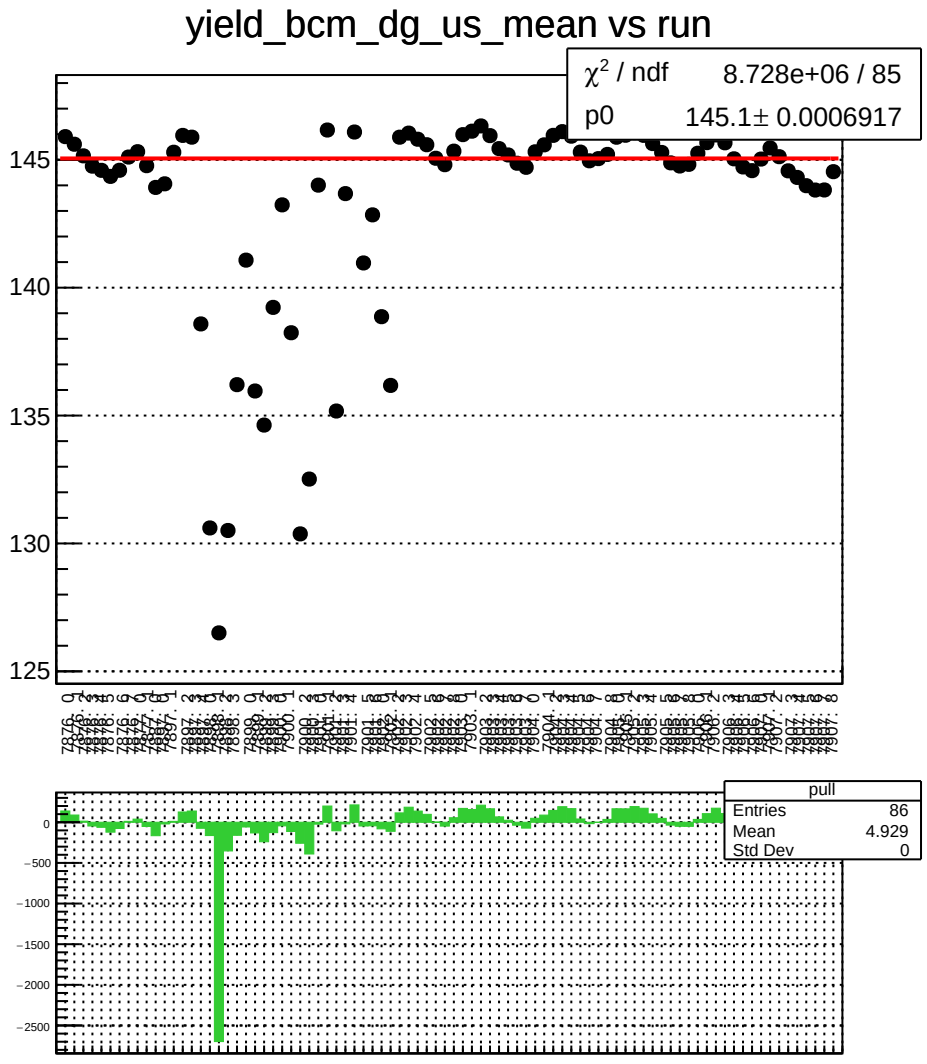

pull1D
Entries 86
Mean 1.937
Std Dev 4.475
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

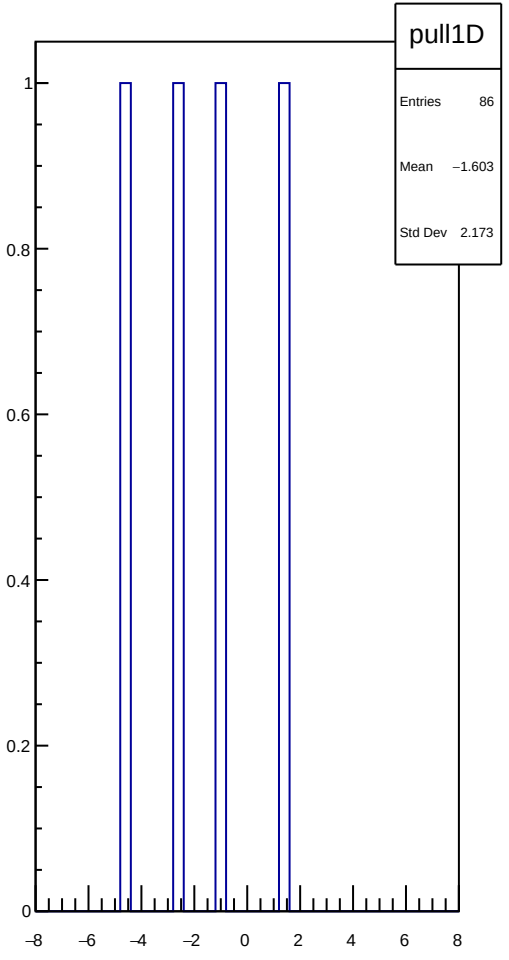

yield_bcm_an_ds3_rms vs run
χ² / ndf 3.736e+05 / 85
p0 0.552 ± 0.0004815
10
9
8
7
6
5
4
3
2
1

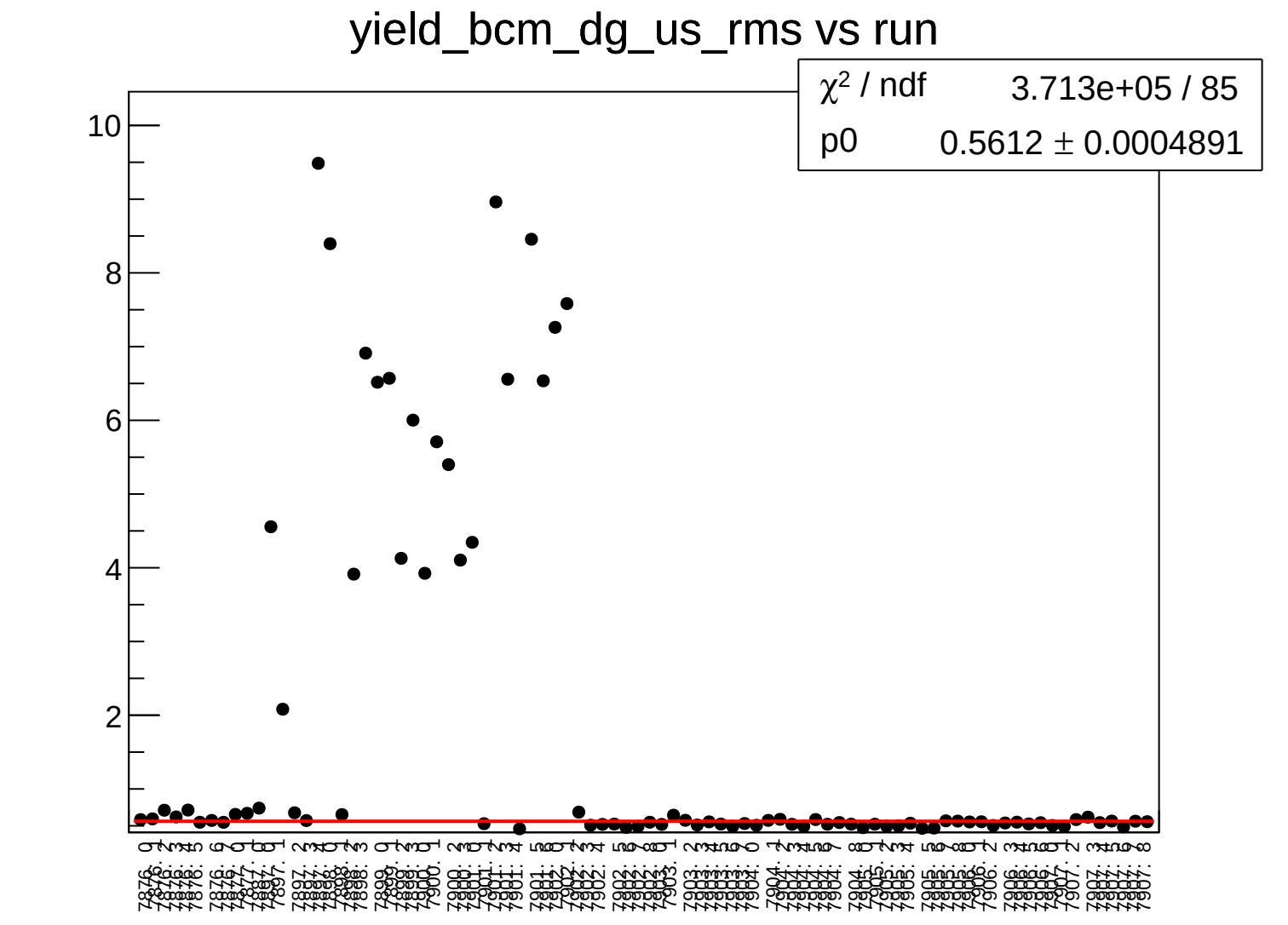

yield_bcm_an_us_mean vs run
χ² / ndf 1.027e+07 / 85
p0 145 ± 0.0006813
145
140
135
130
125
pull
Entries 86
Mean −9.639
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000

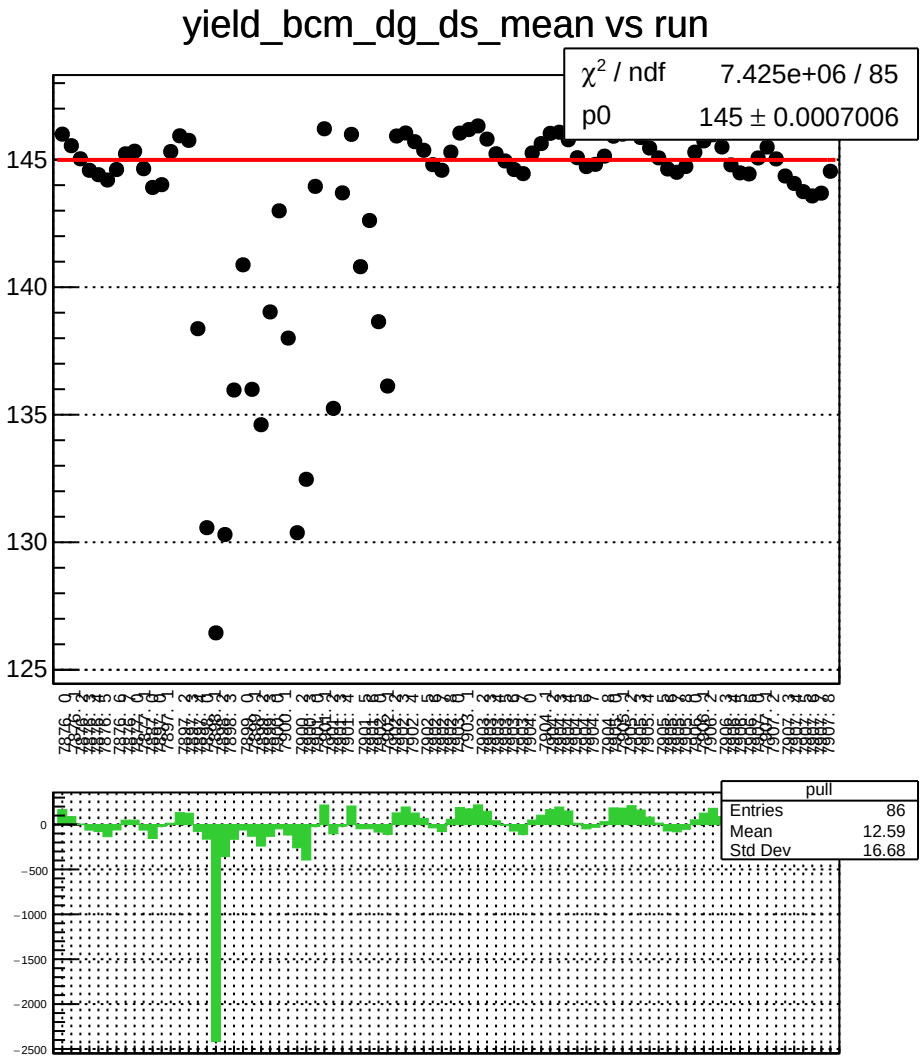

pull1D
Entries 86
Mean −2.066
Std Dev 2.491
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

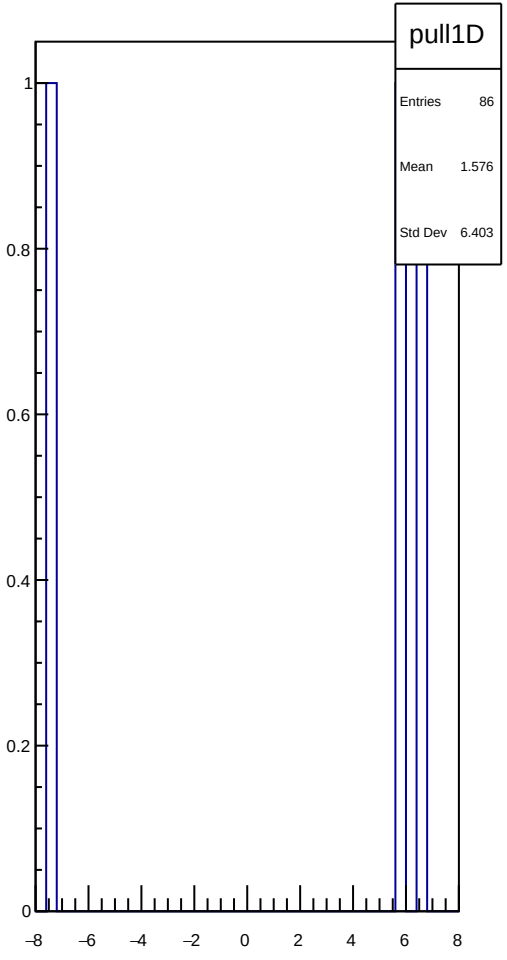

yield_bcm_an_us_rms vs run
χ² / ndf 3.733e+05 / 85
p0 0.5524 ± 0.0004818
10
9
8
7
6
5
4
3
2
1

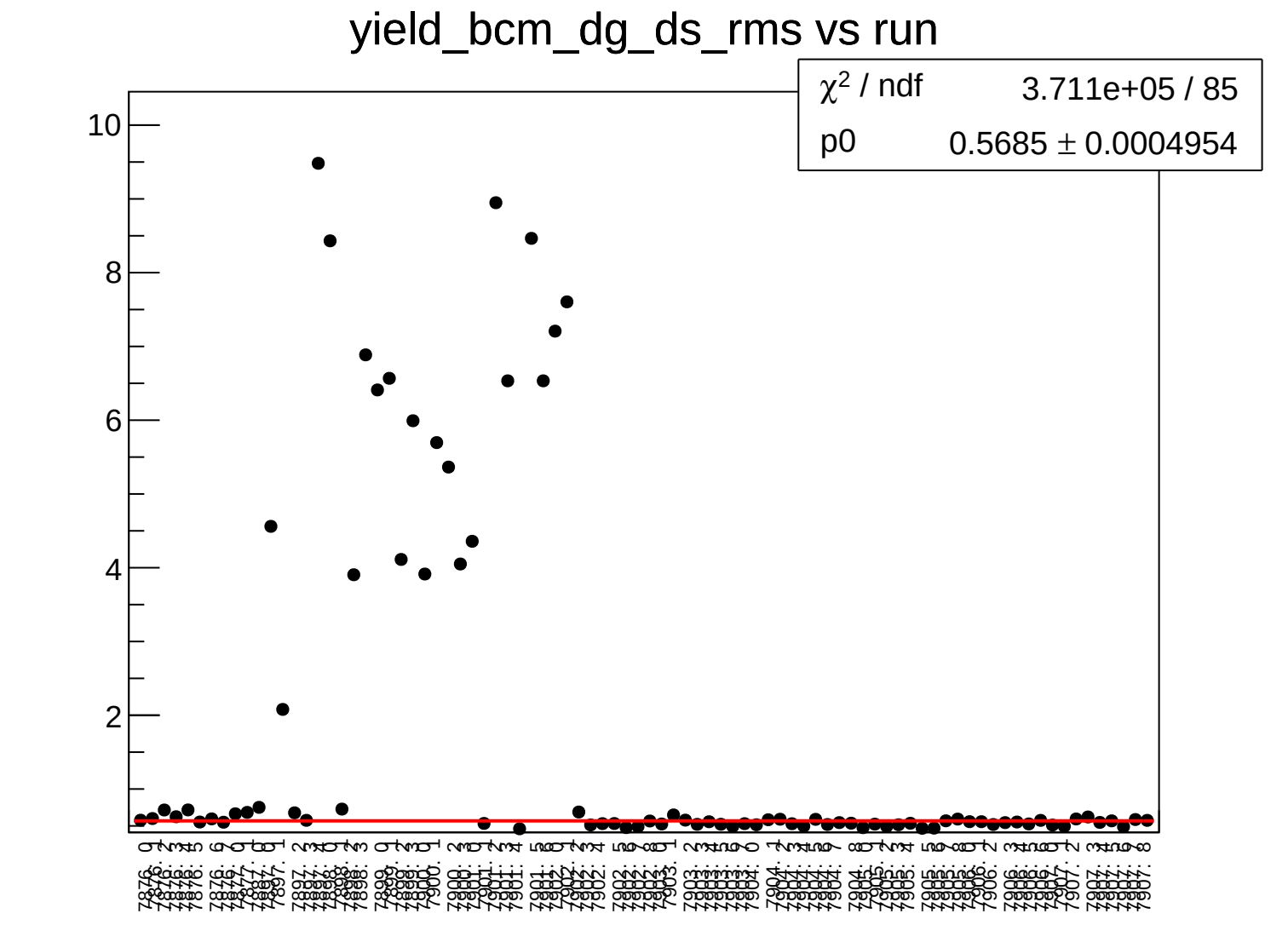

yield_bcm_dg_us_mean vs run
χ² / ndf 8.728e+06 / 85
p0 145.1± 0.0006917
145
140
135
130
125
pull
Entries 86
Mean 4.929
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

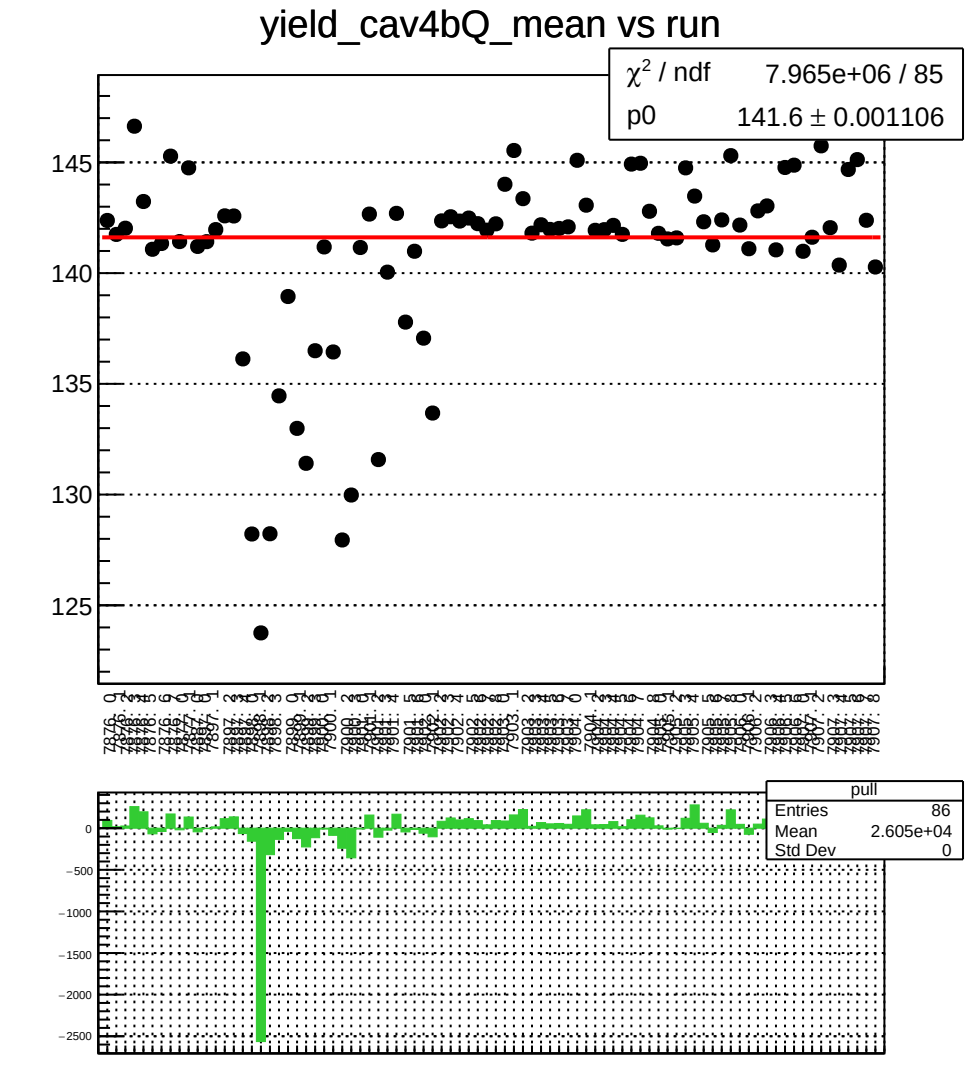

pull1D
Entries 86
Mean −1.603
Std Dev 2.173
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

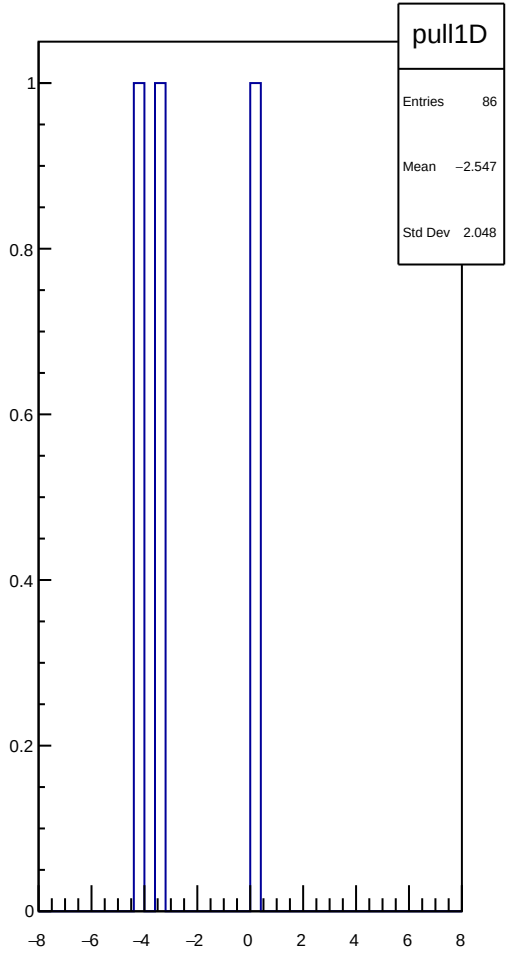

yield_bcm_dg_us_rms vs run
χ² / ndf 3.713e+05 / 85
p0 0.5612 ± 0.0004891
10
8
6
4
2

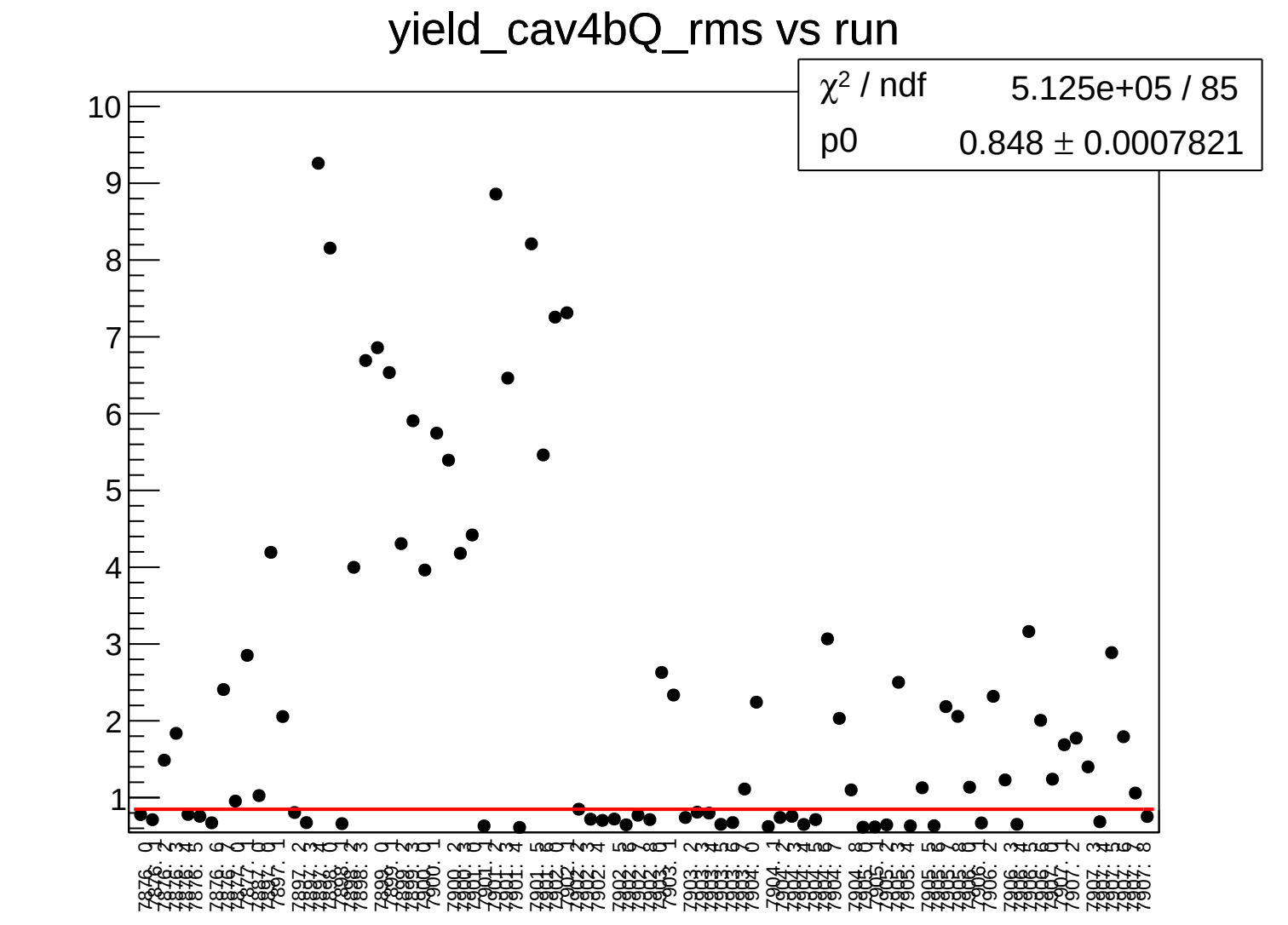

yield_bcm_dg_ds_mean vs run
χ² / ndf 7.425e+06 / 85
p0 145 ± 0.0007006
145
140
135
130
125
pull
Entries 86
Mean 12.59
Std Dev 16.68
0
−500
−1000
−1500
−2000
−2500

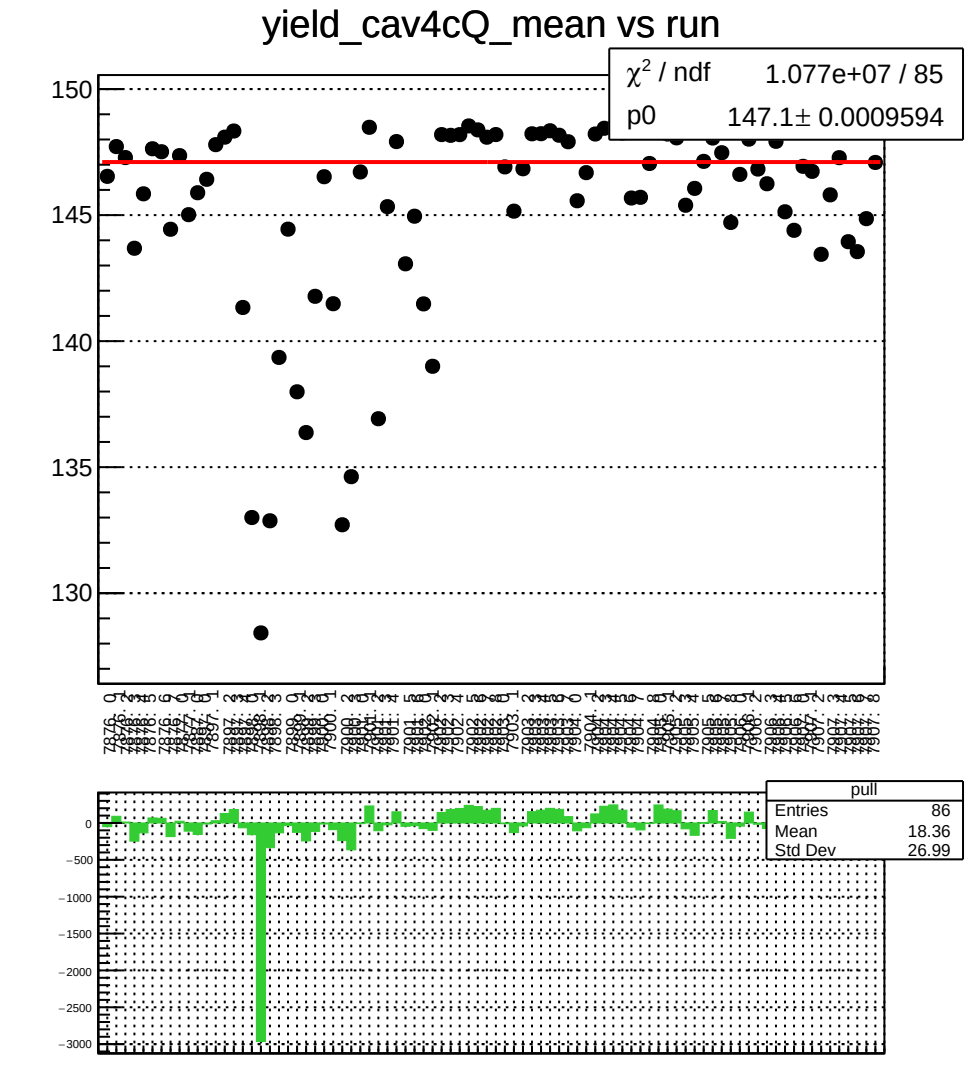

pull1D
Entries 86
Mean 1.576
Std Dev 6.403
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

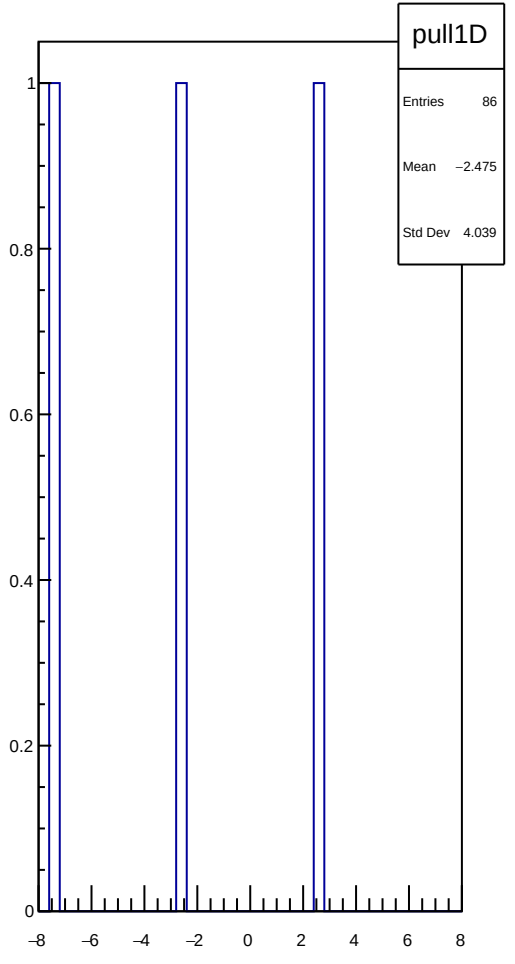

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.711e+05 / 85
p0 0.5685 ± 0.0004954
10
8
6
4
2

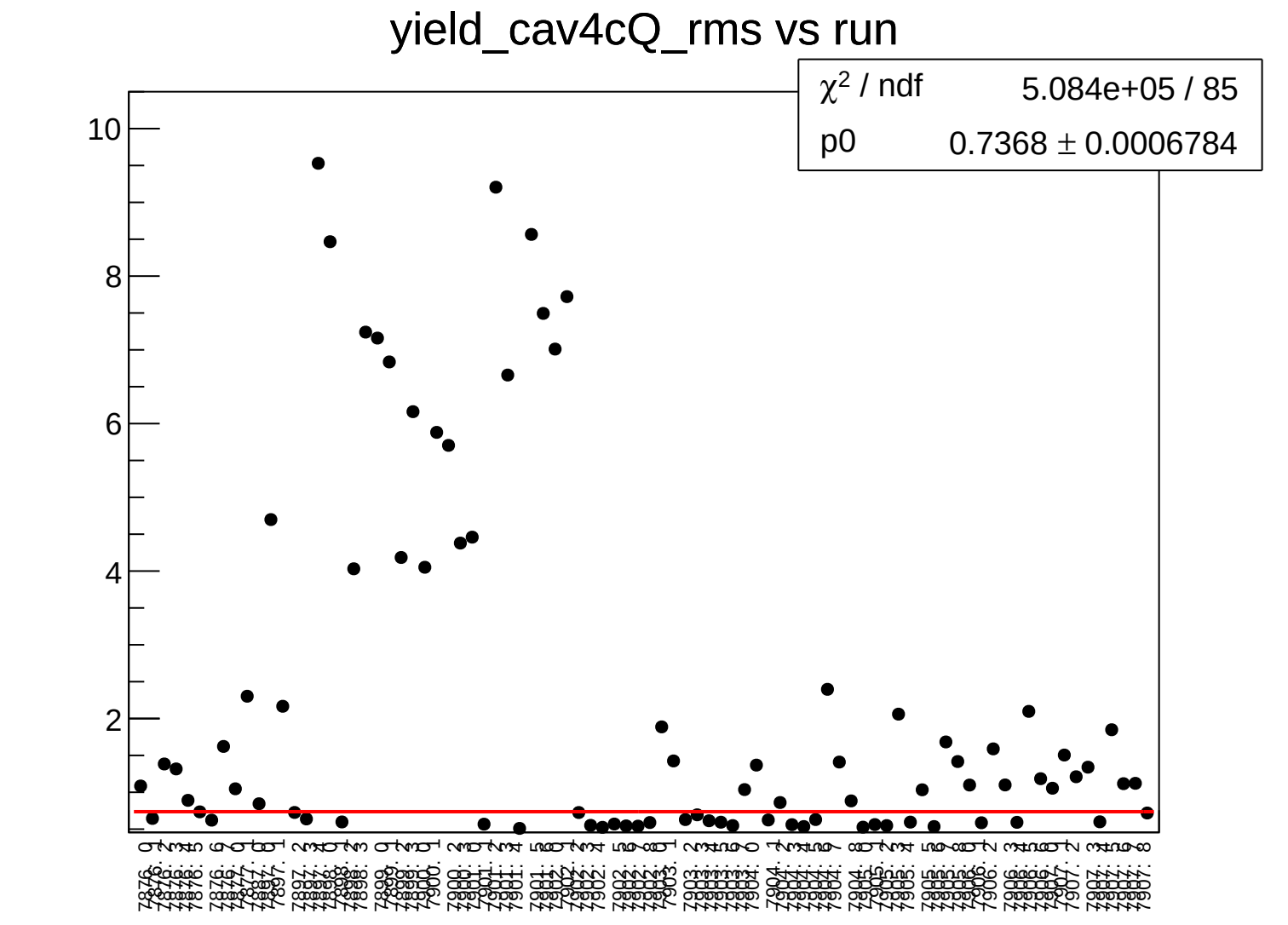

yield_cav4bQ_mean vs run
χ² / ndf 7.965e+06 / 85
p0 141.6 ± 0.001106
145
140
135
130
125
pull
Entries 86
Mean 2.605e+04
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

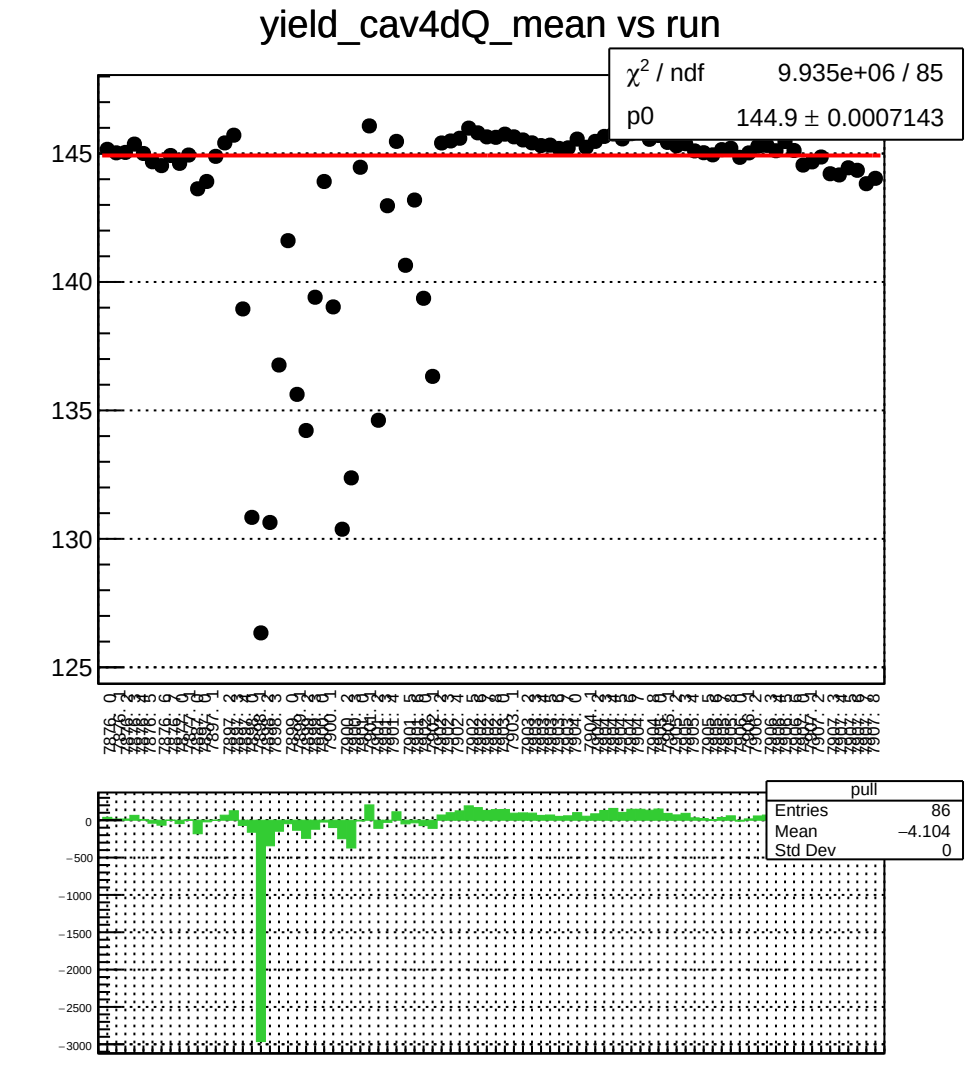

pull1D
Entries 86
Mean −2.547
Std Dev 2.048
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

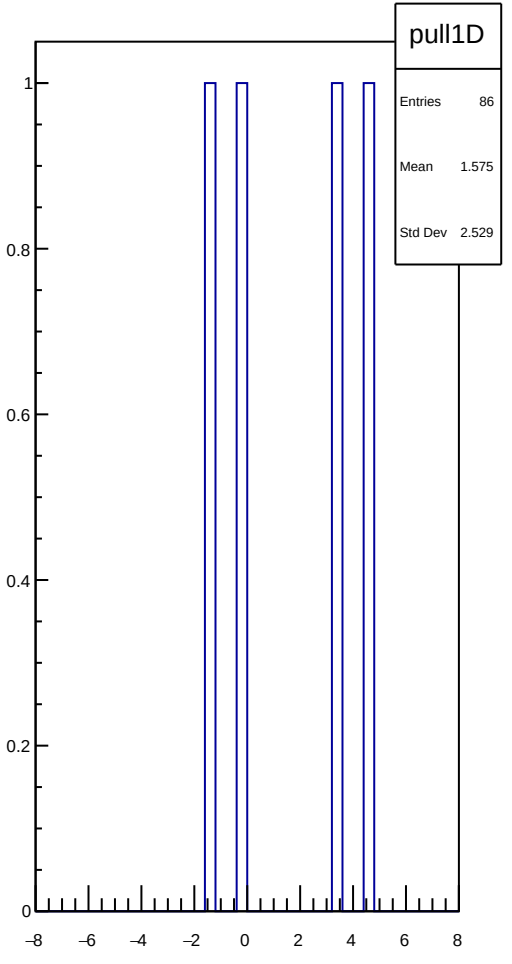

yield_cav4bQ_rms vs run
χ² / ndf 5.125e+05 / 85
p0 0.848 ± 0.0007821
10
9
8
7
6
5
4
3
2
1

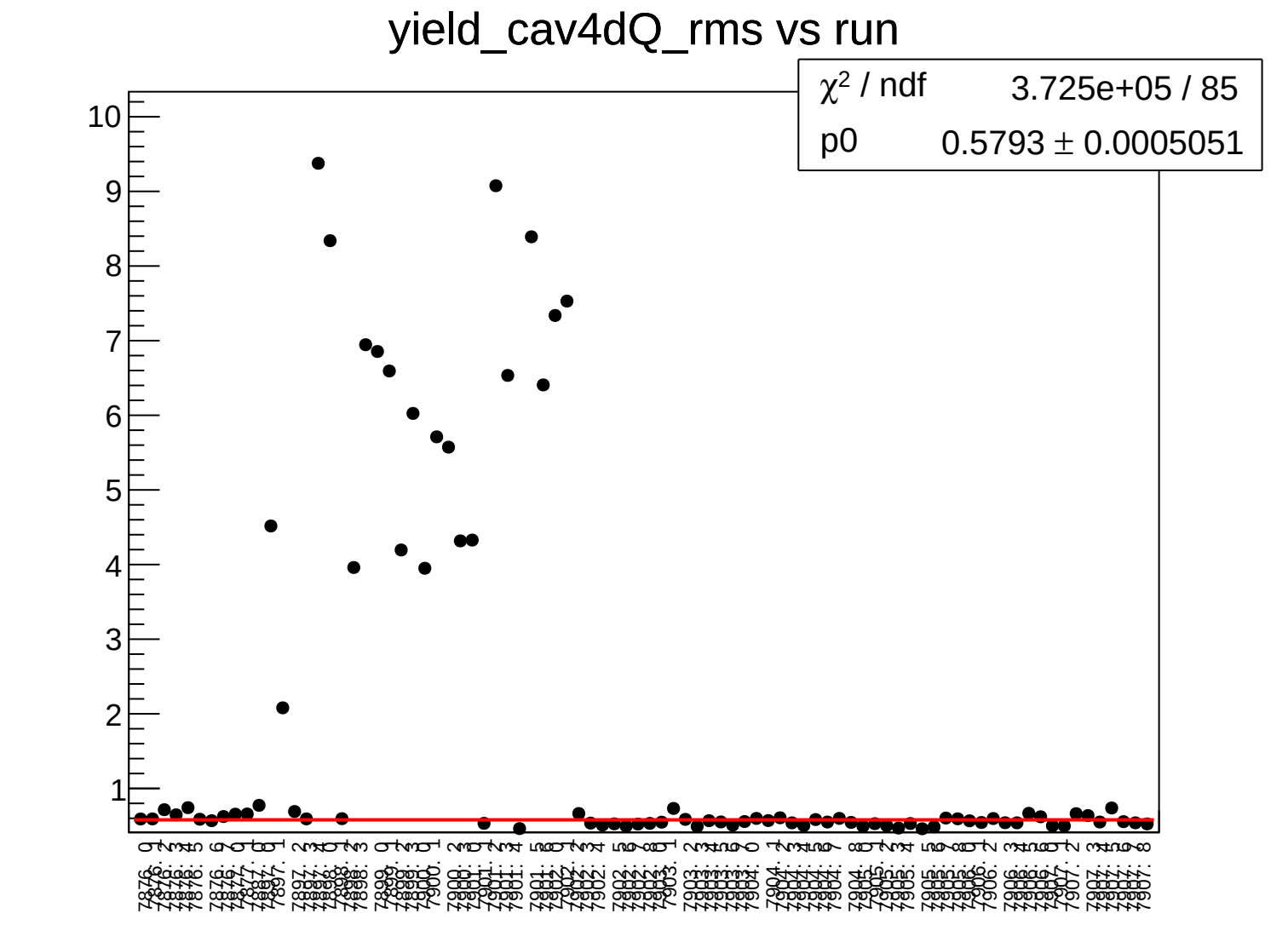

yield_cav4cQ_mean vs run
χ² / ndf 1.077e+07 / 85
p0 147.1± 0.0009594
150
145
140
135
130
pull
Entries 86
Mean 18.36
Std Dev 26.99
0
−500
−1000
−1500
−2000
−2500
−3000

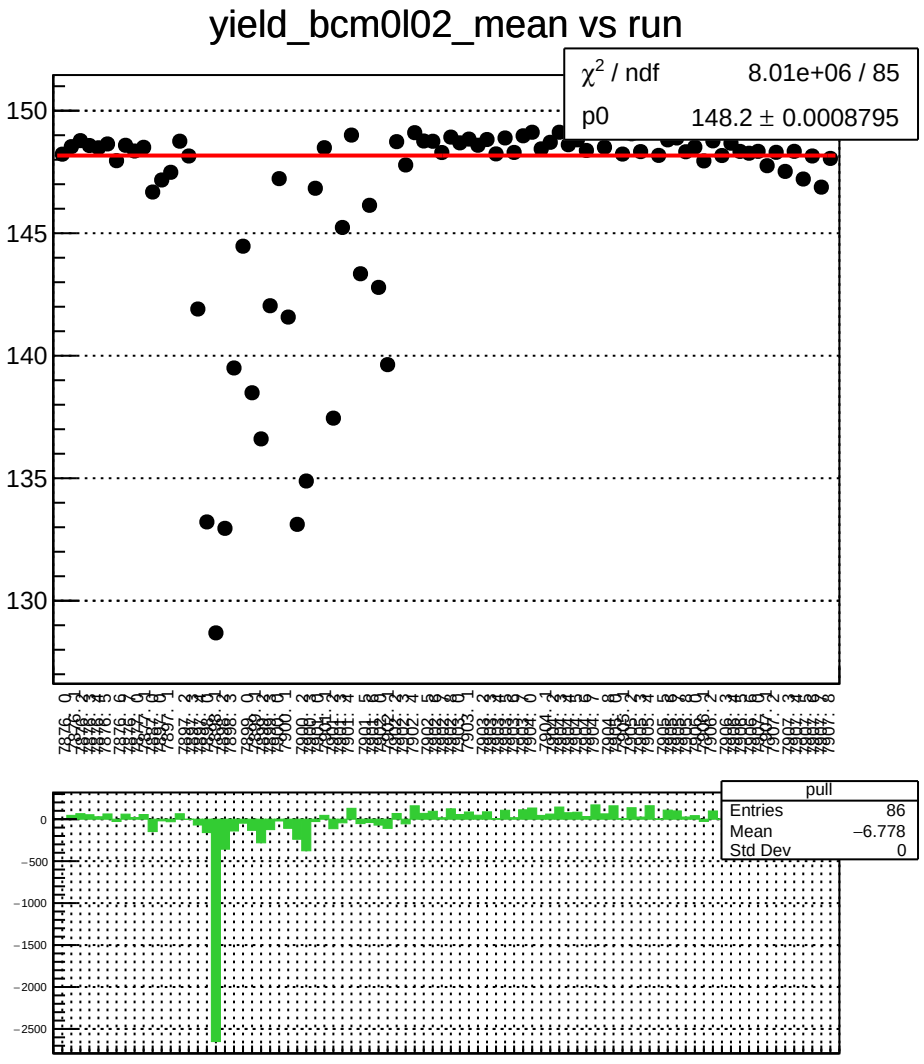

pull1D
Entries 86
Mean −2.475
Std Dev 4.039
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

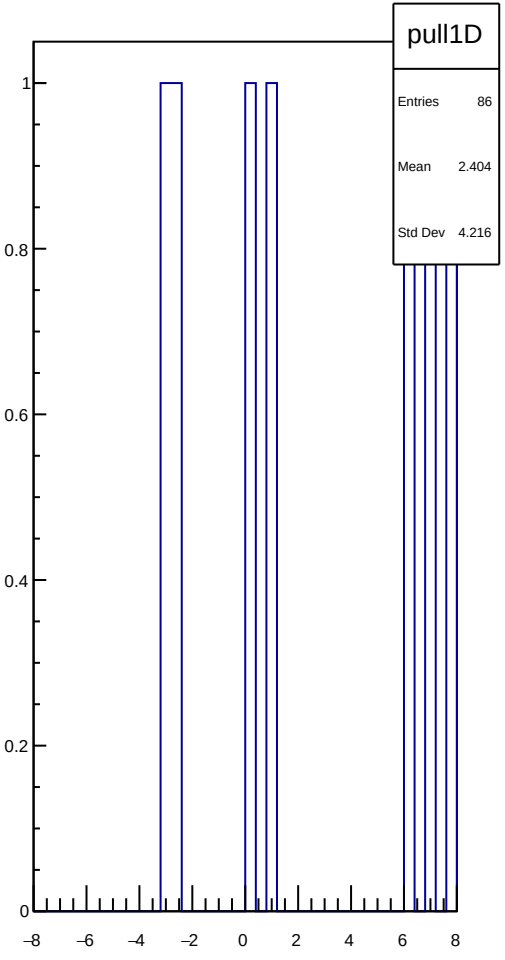

yield_cav4cQ_rms vs run
χ² / ndf 5.084e+05 / 85
p0 0.7368 ± 0.0006784
10
8
6
4
2

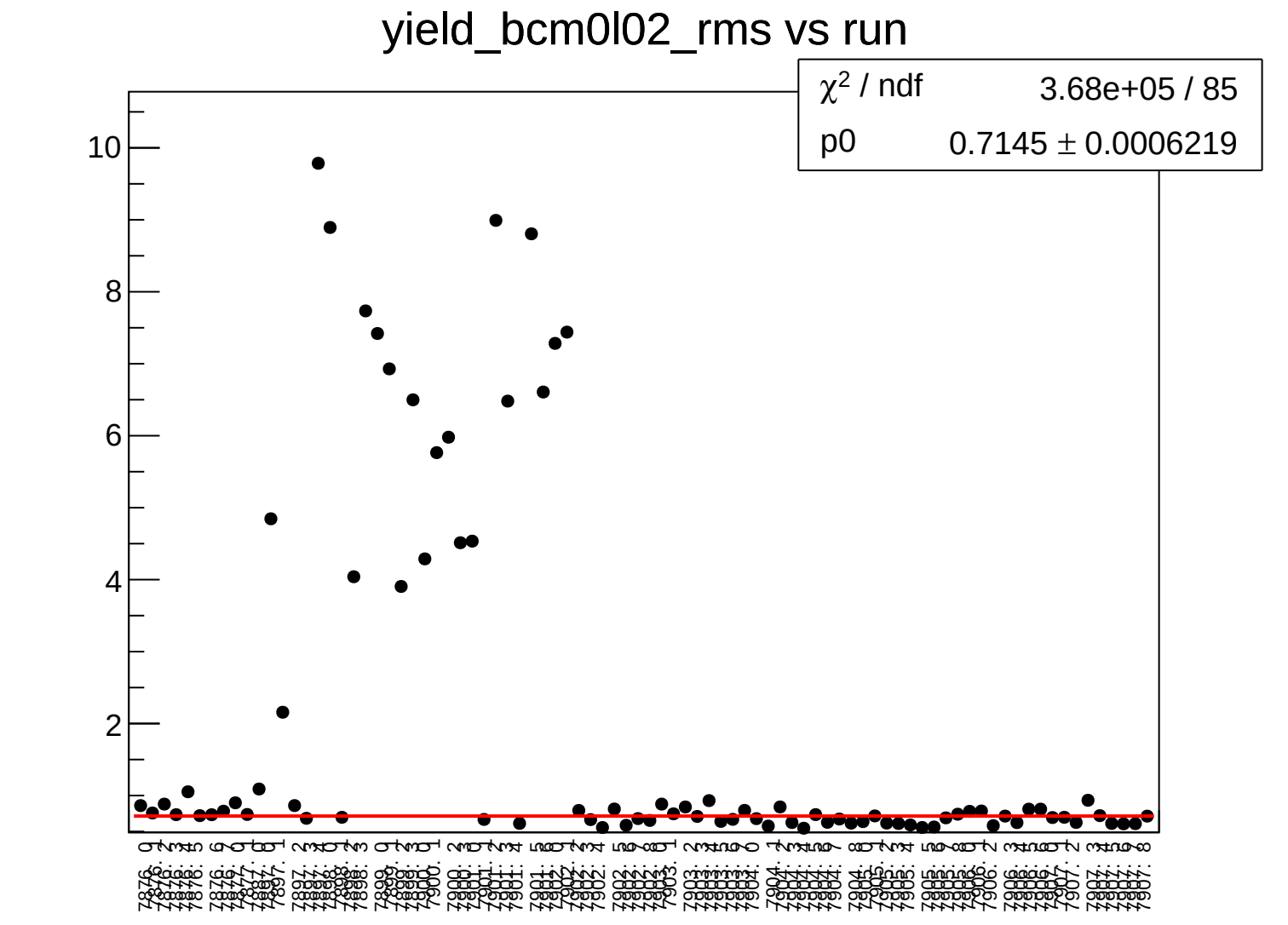

yield_cav4dQ_mean vs run
χ² / ndf 9.935e+06 / 85
p0 144.9 ± 0.0007143
145
140
135
130
125
pull
Entries 86
Mean −4.104
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000

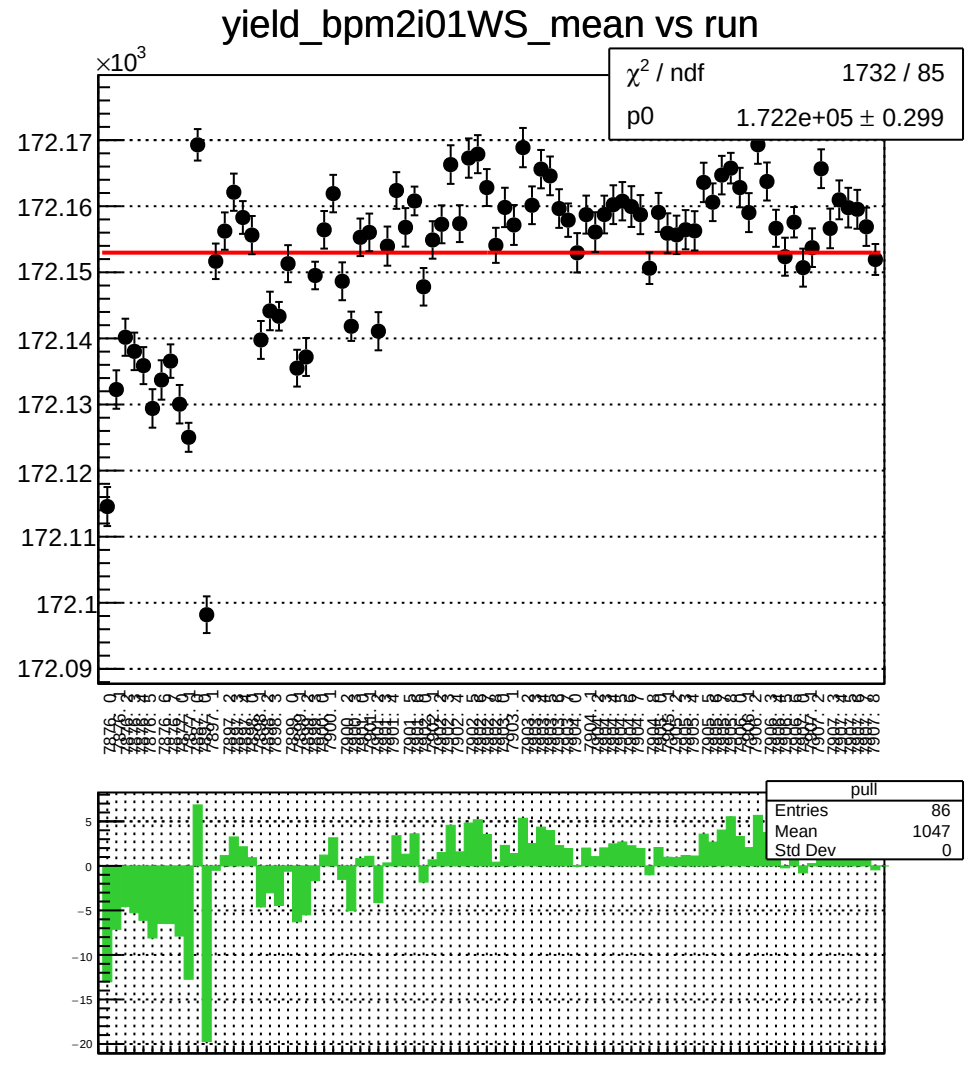

pull1D
Entries 86
Mean 1.575
Std Dev 2.529
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

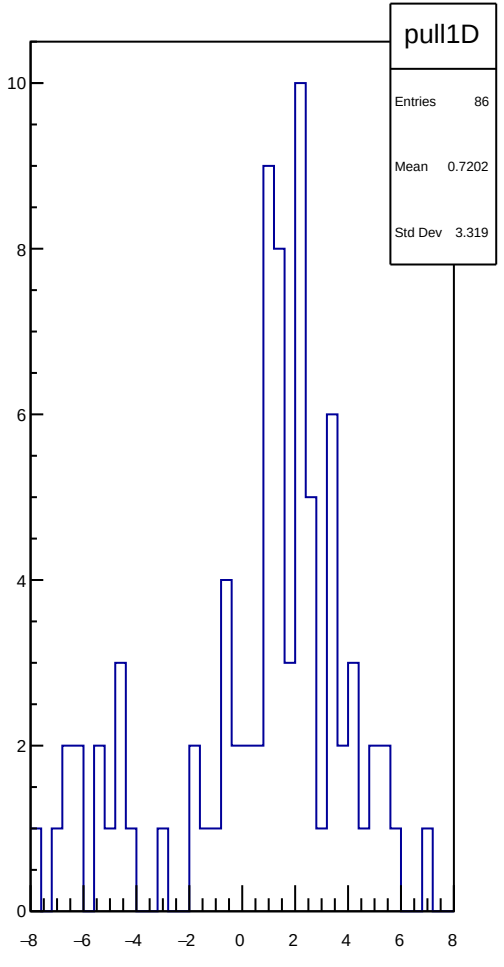

yield_cav4dQ_rms vs run
χ² / ndf 3.725e+05 / 85
p0 0.5793 ± 0.0005051
10
9
8
7
6
5
4
3
2
1

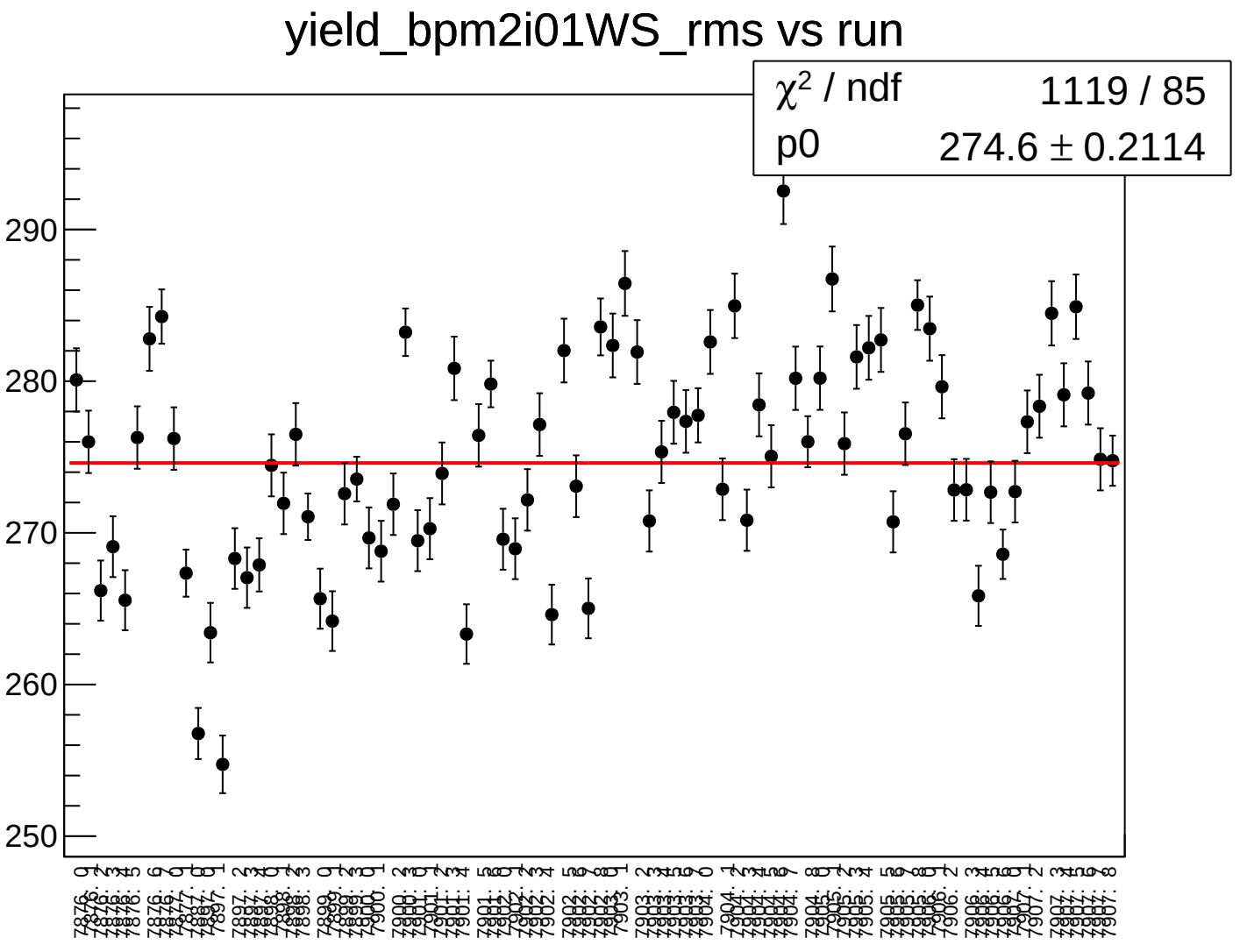

yield_bcm0l02_mean vs run
χ² / ndf 8.01e+06 / 85
p0 148.2 ± 0.0008795
150
145
140
135
130
pull
Entries 86
Mean −6.778
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

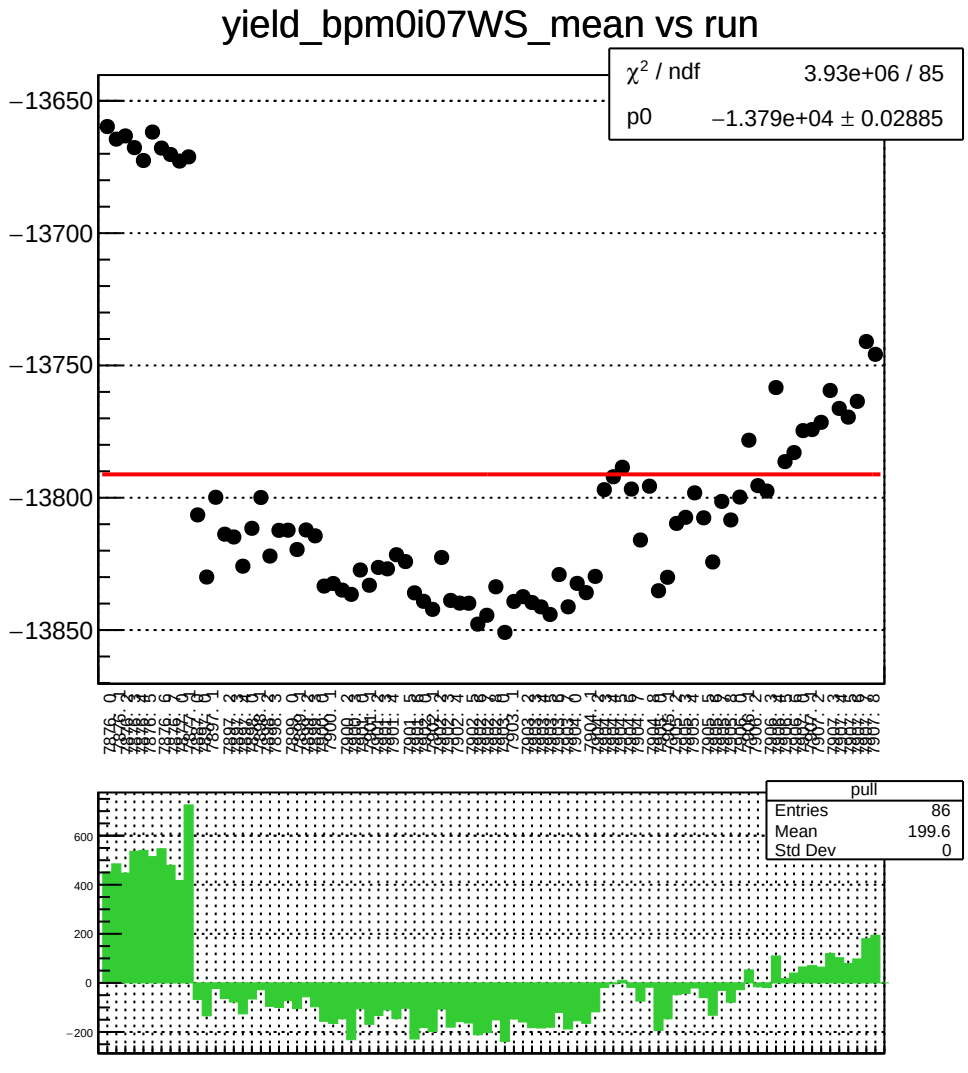

pull1D
Entries 86
Mean 2.404
Std Dev 4.216
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

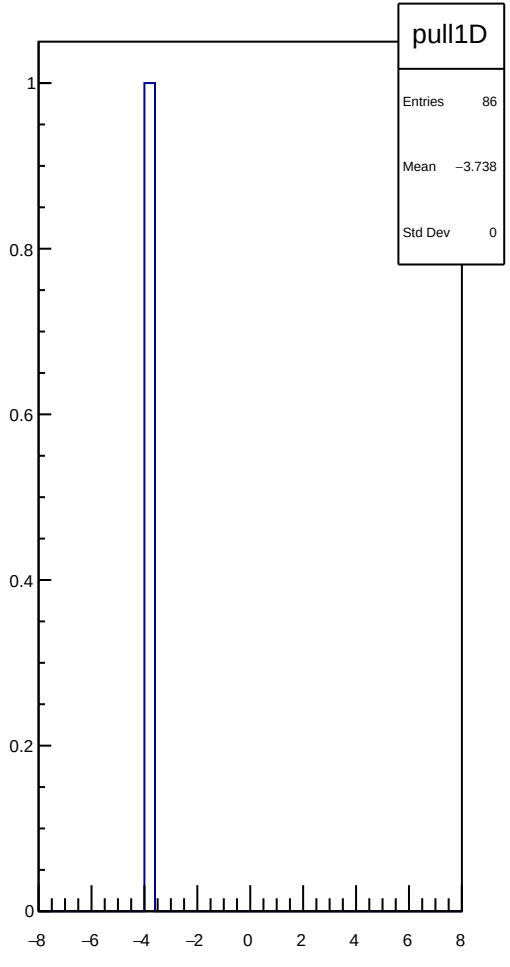

yield_bcm0l02_rms vs run
χ² / ndf 3.68e+05 / 85
p0 0.7145 ± 0.0006219
10
8
6
4
2

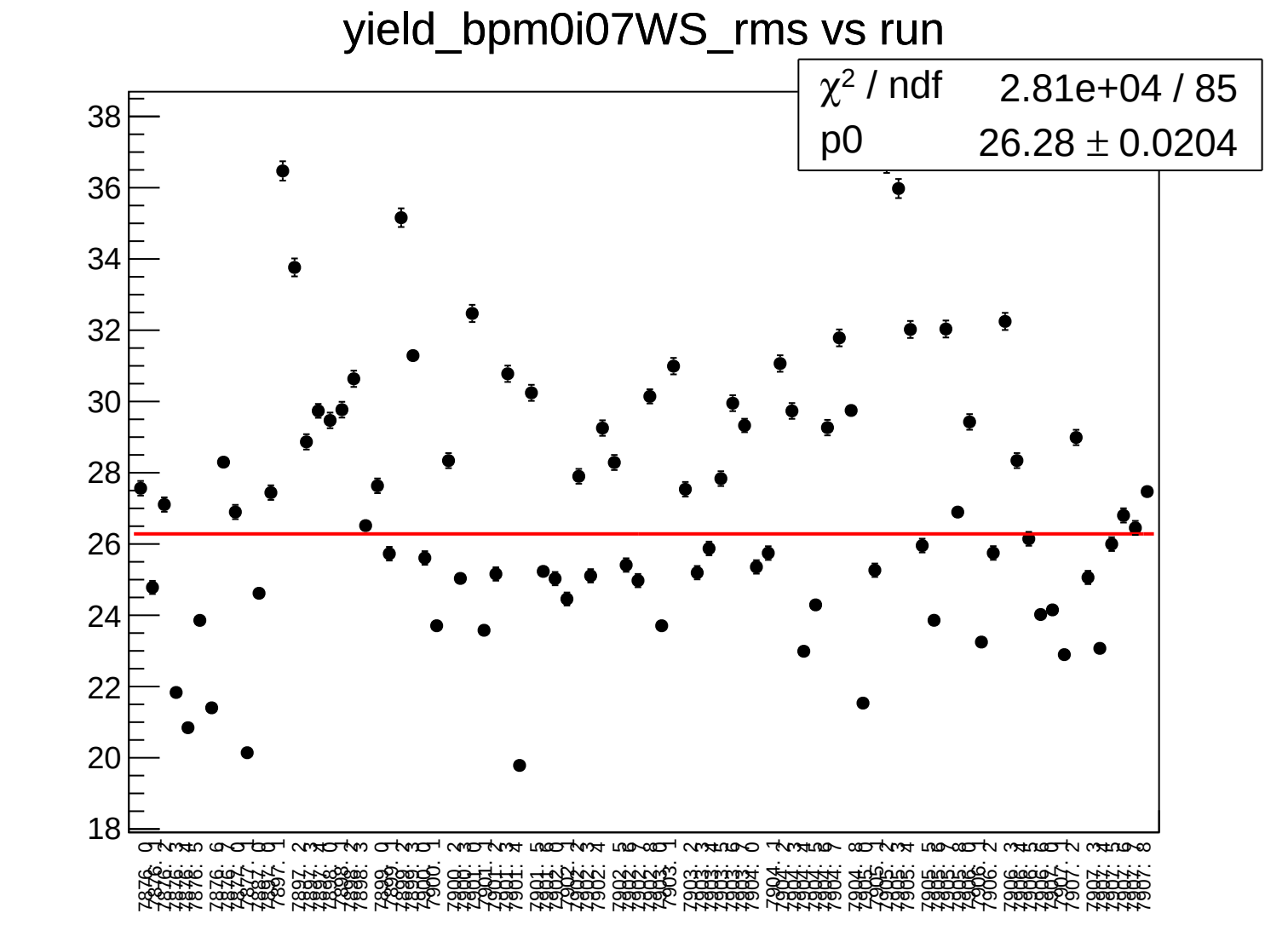

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1732 / 85
p0 1.722e+05 ± 0.299
172.17
172.16
172.15
172.14
172.13
172.12
172.11
172.1
172.09
pull
Entries 86
Mean 1047
Std Dev 0
5
0
−5
−10
−15
−20

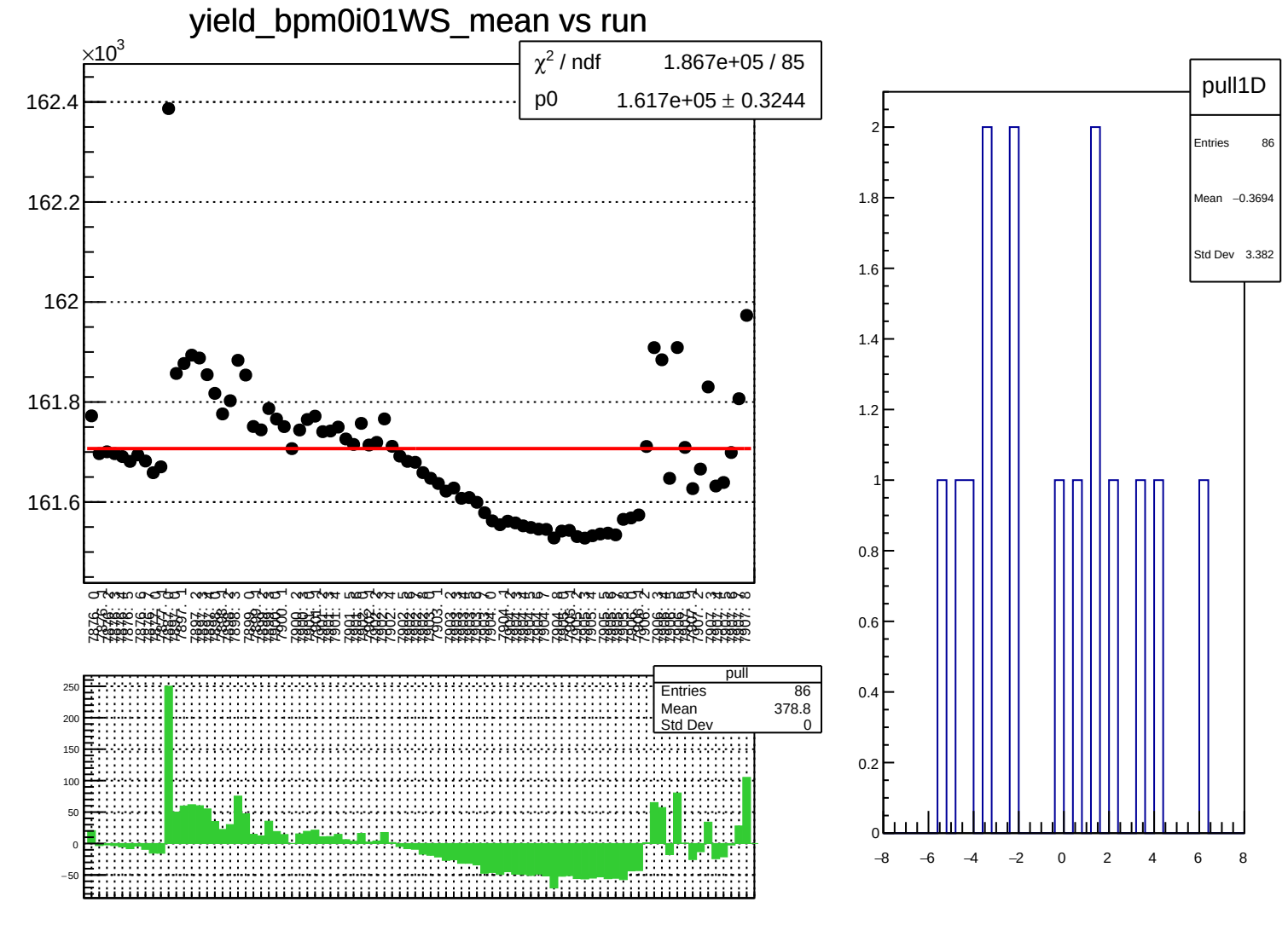

pull1D
Entries 86
Mean 0.7202
Std Dev 3.319
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

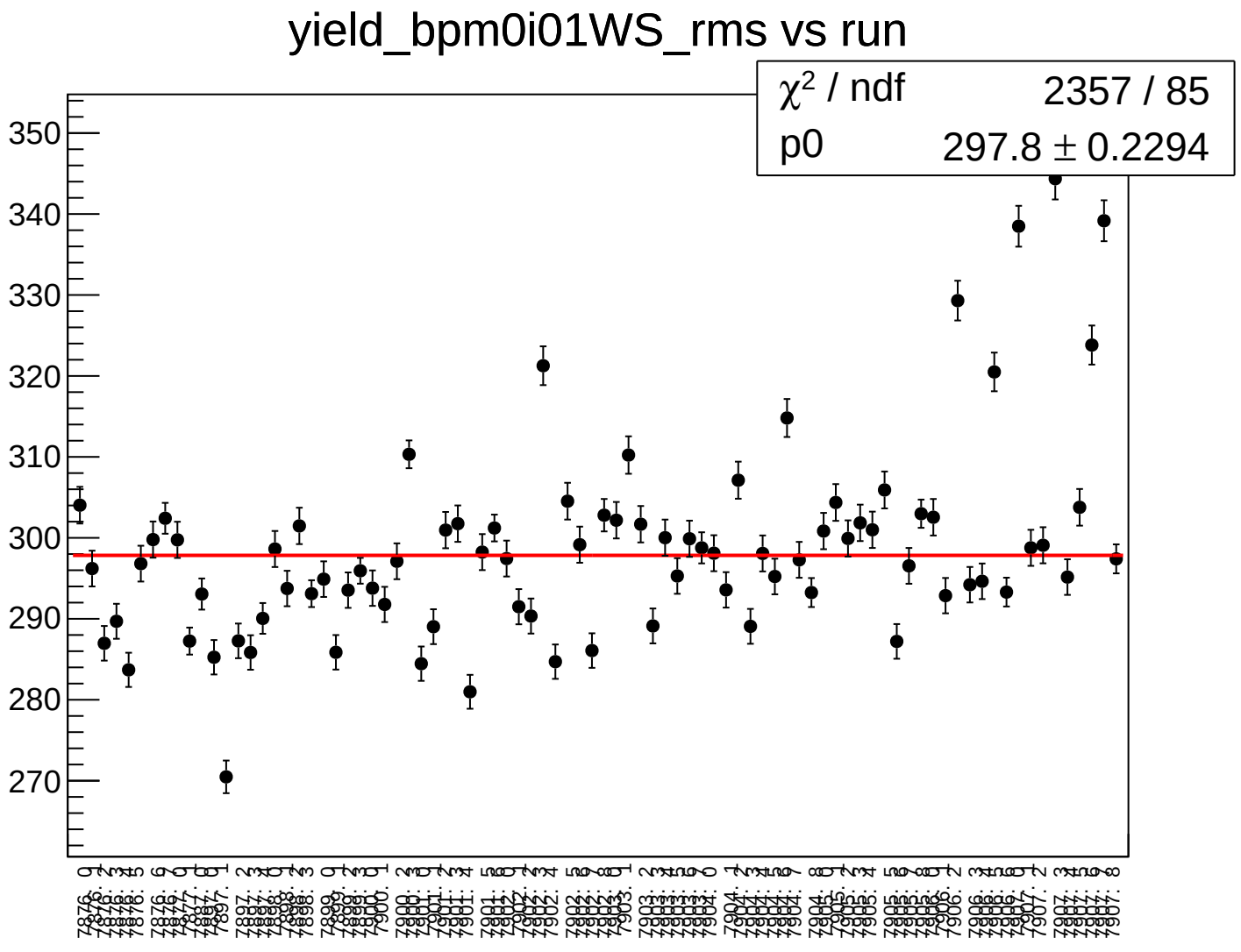

yield_bpm2i01WS_rms vs run
χ² / ndf 1119 / 85
p0 274.6 ± 0.2114
290
280
270
260
250

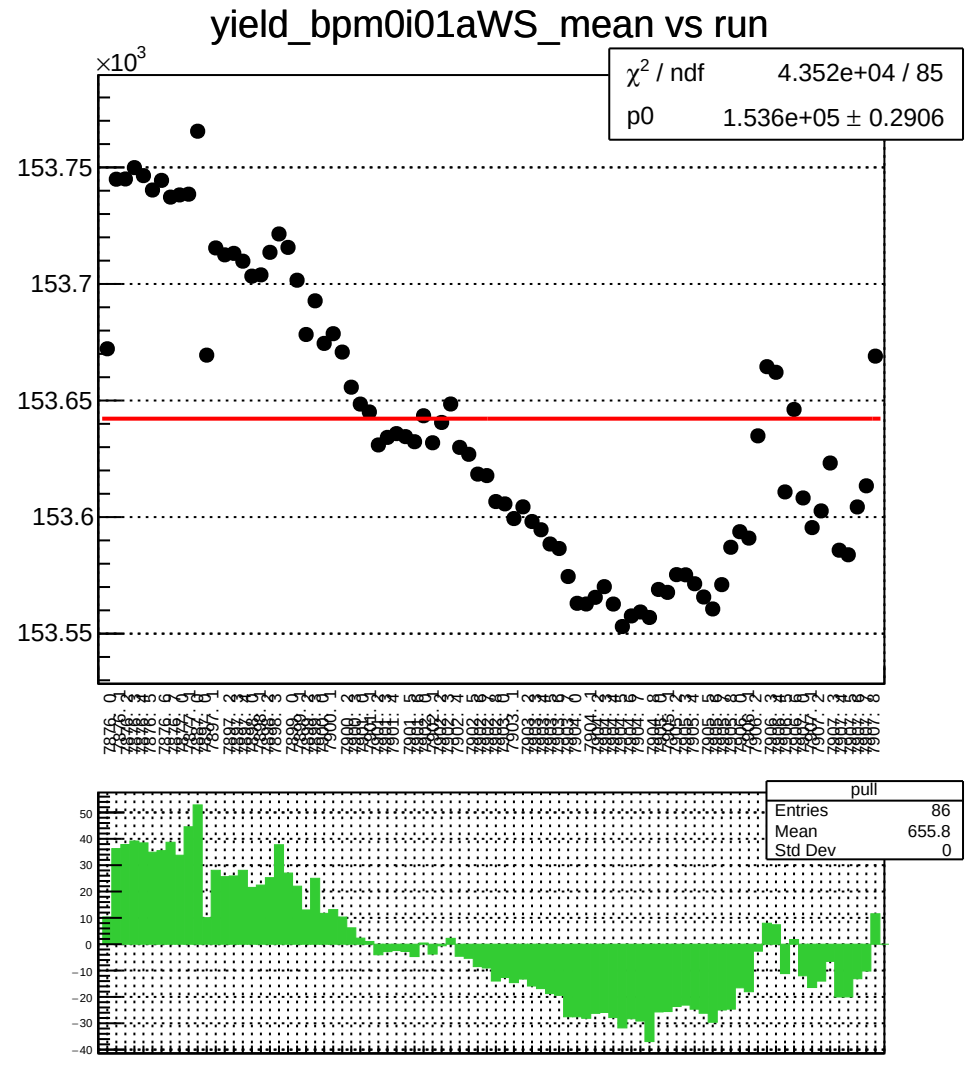

yield_bpm0i07WS_mean vs run
χ² / ndf 3.93e+06 / 85
p0 −1.379e+04 ± 0.02885
−13650
−13700
−13750
−13800
−13850
pull
Entries 86
Mean 199.6
Std Dev 0
600
400
200
0
−200

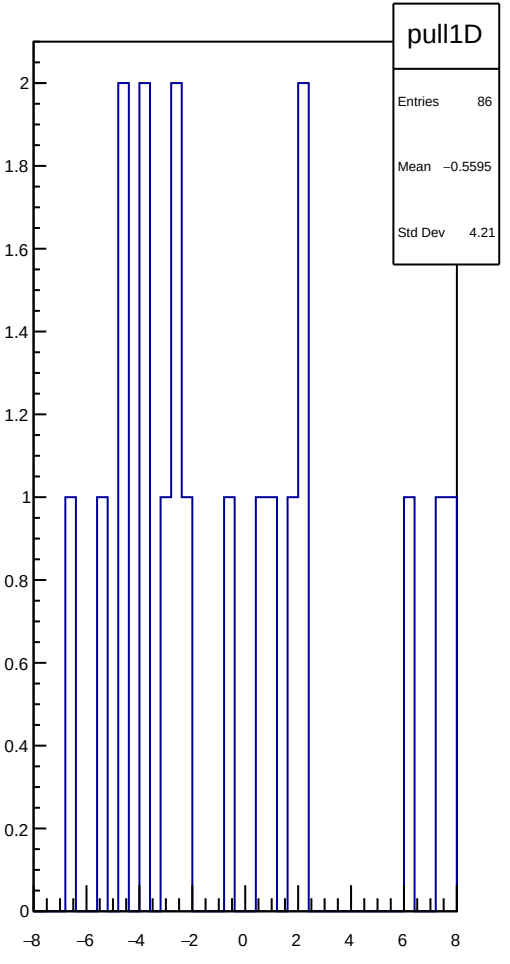

pull1D
Entries 86
Mean −3.738
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

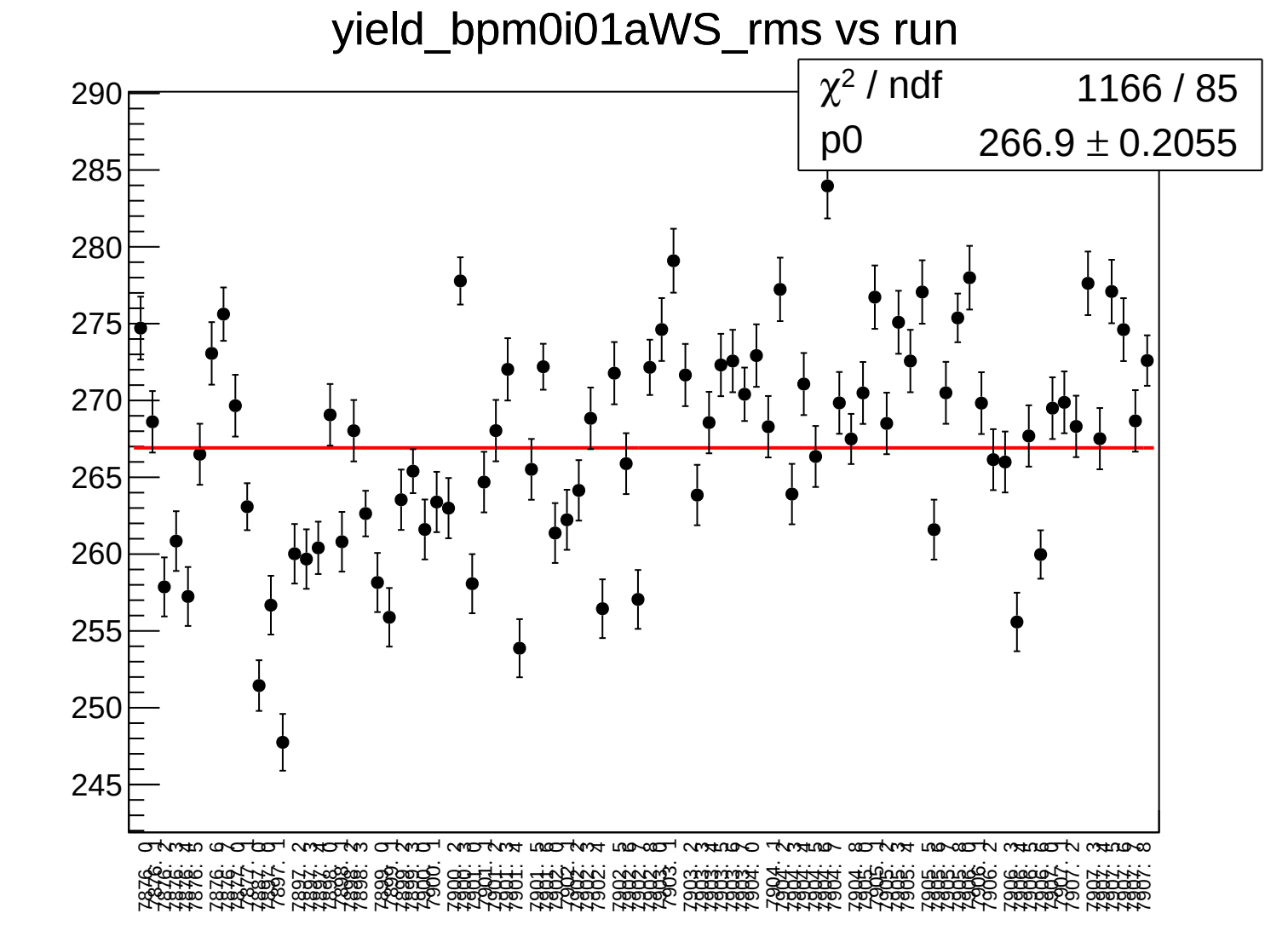

yield_bpm0i07WS_rms vs run
χ² / ndf 2.81e+04 / 85
p0 26.28 ± 0.0204
38
36
34
32
30
28
26
24
22
20
18

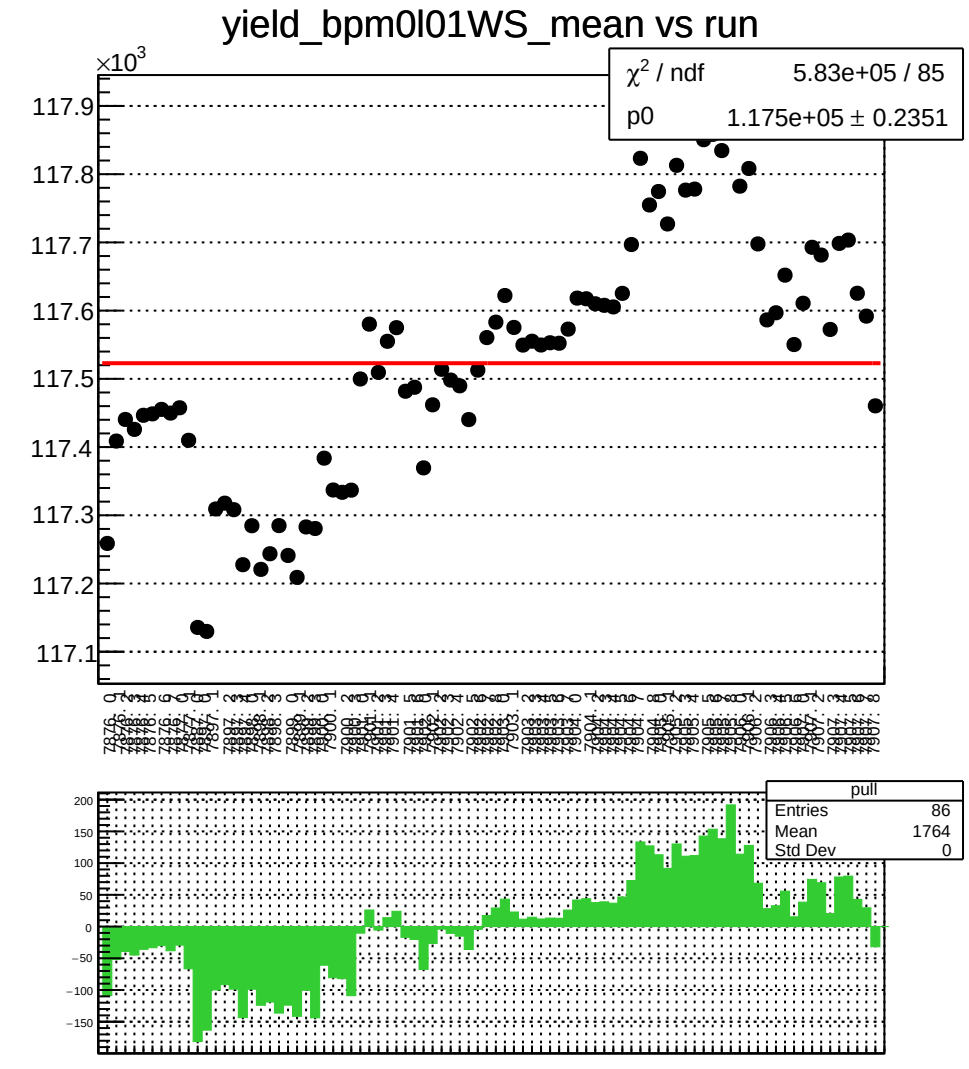

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 1.867e+05 / 85
p0 1.617e+05 ± 0.3244
162.4
162.2
162
161.8
161.6
pull
Entries 86
Mean 378.8
Std Dev 0
250
200
150
100
50
0
−50
pull1D
Entries 86
Mean −0.3694
Std Dev 3.382
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

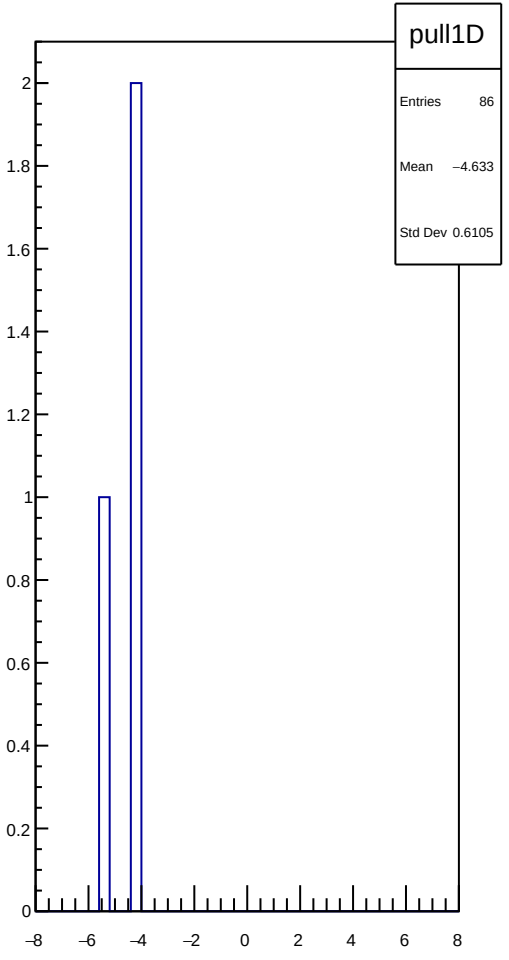

yield_bpm0i01WS_rms vs run
χ² / ndf 2357 / 85
p0 297.8 ± 0.2294
350
340
330
320
310
300
290
280
270

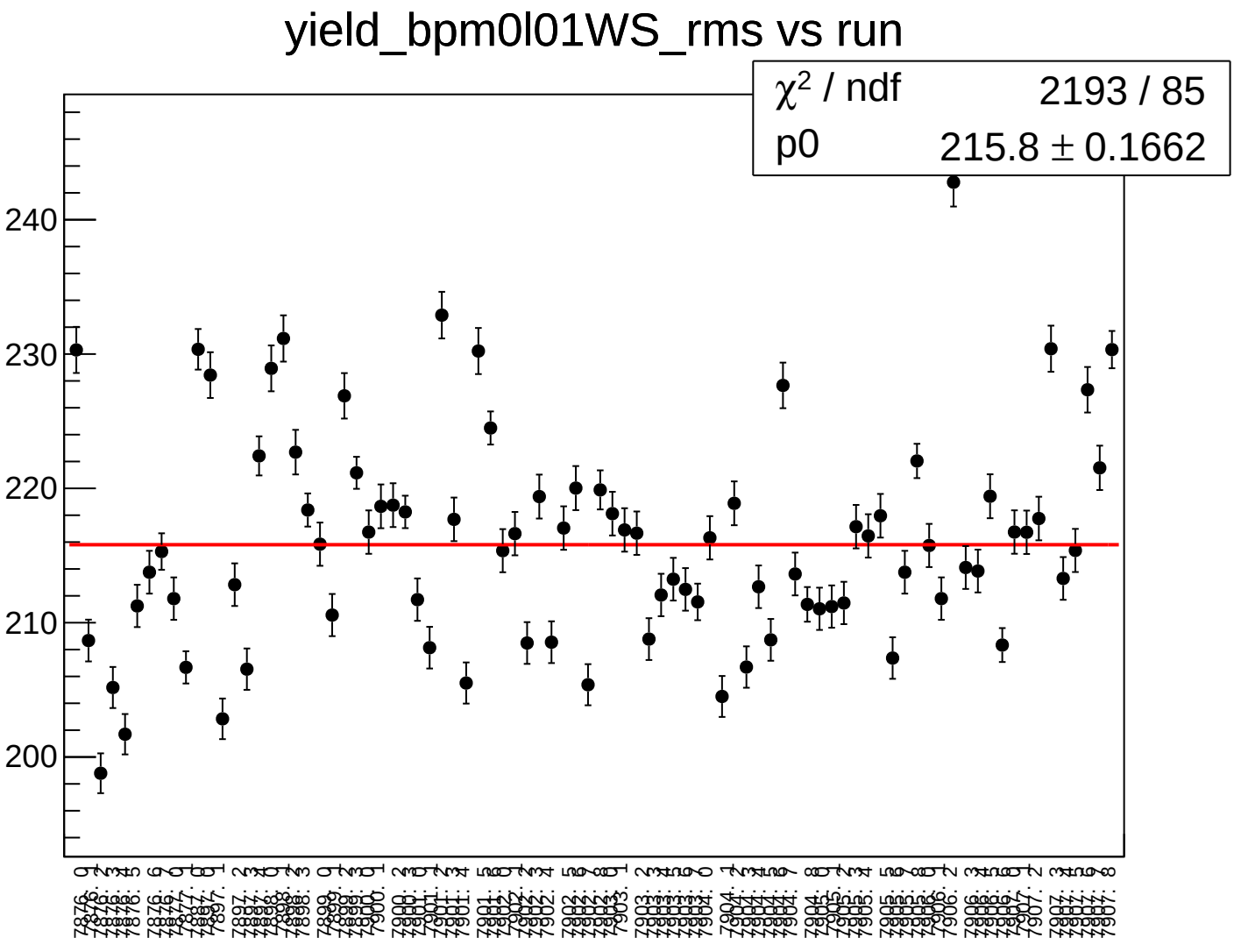

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 4.352e+04 / 85
p0 1.536e+05 ± 0.2906
153.75
153.7
153.65
153.6
153.55
pull
Entries 86
Mean 655.8
Std Dev 0
50
40
30
20
10
0
−10
−20
−30
−40

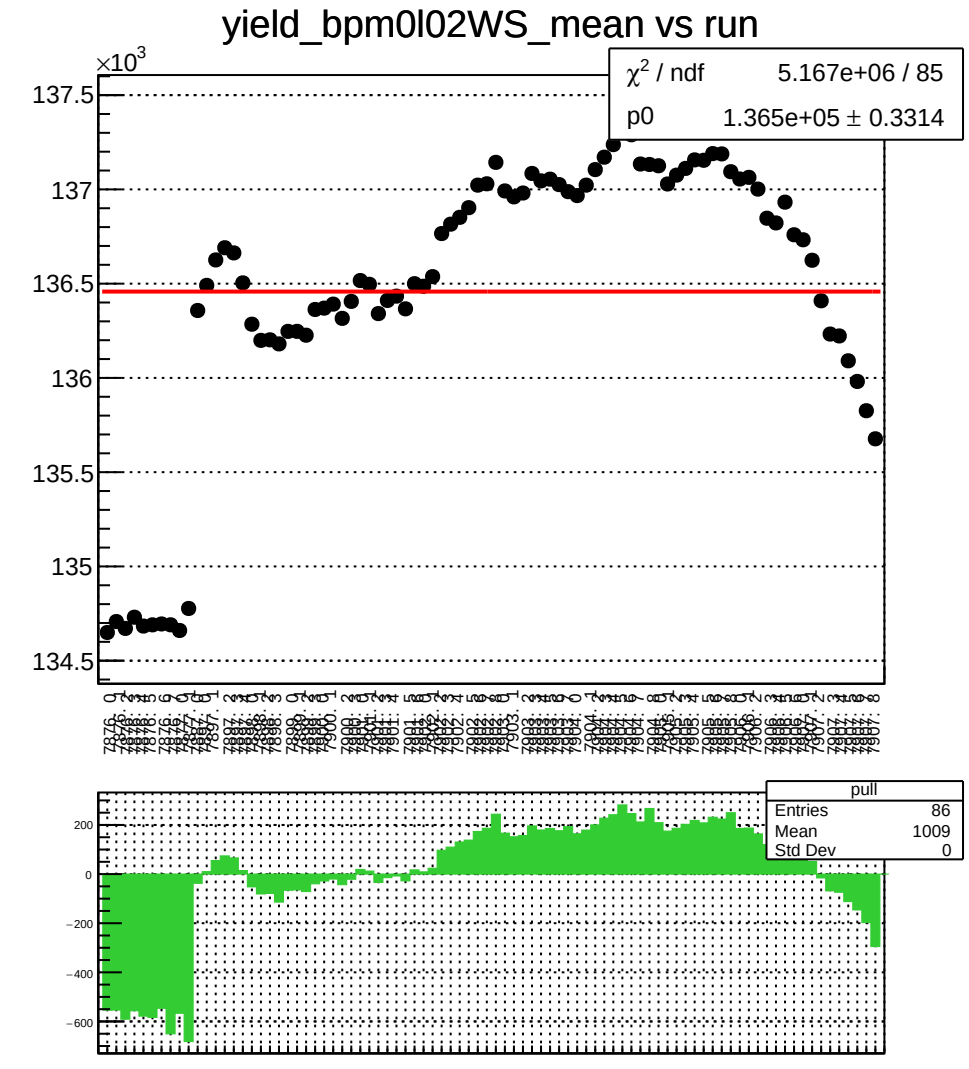

pull1D
Entries 86
Mean −0.5595
Std Dev 4.21
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

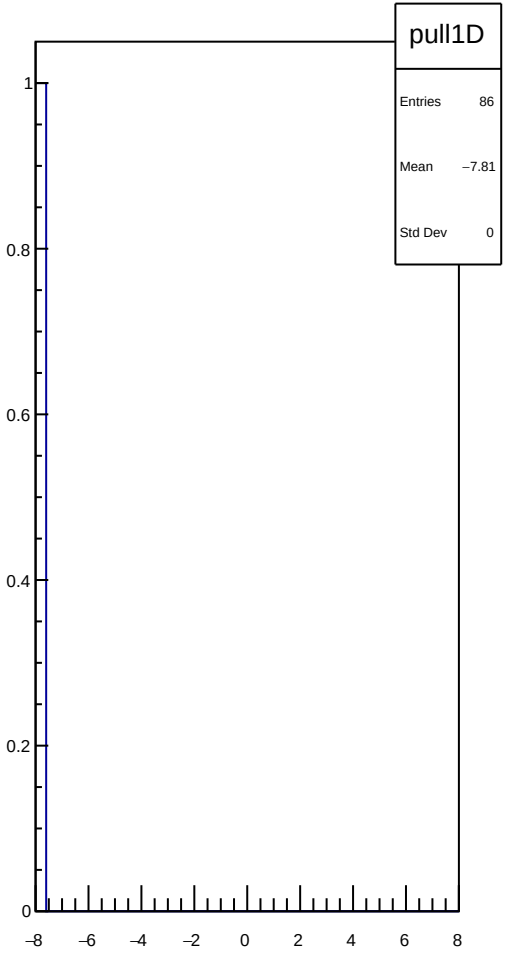

yield_bpm0i01aWS_rms vs run
χ² / ndf 1166 / 85
p0 266.9 ± 0.2055
290
285
280
275
270
265
260
255
250
245

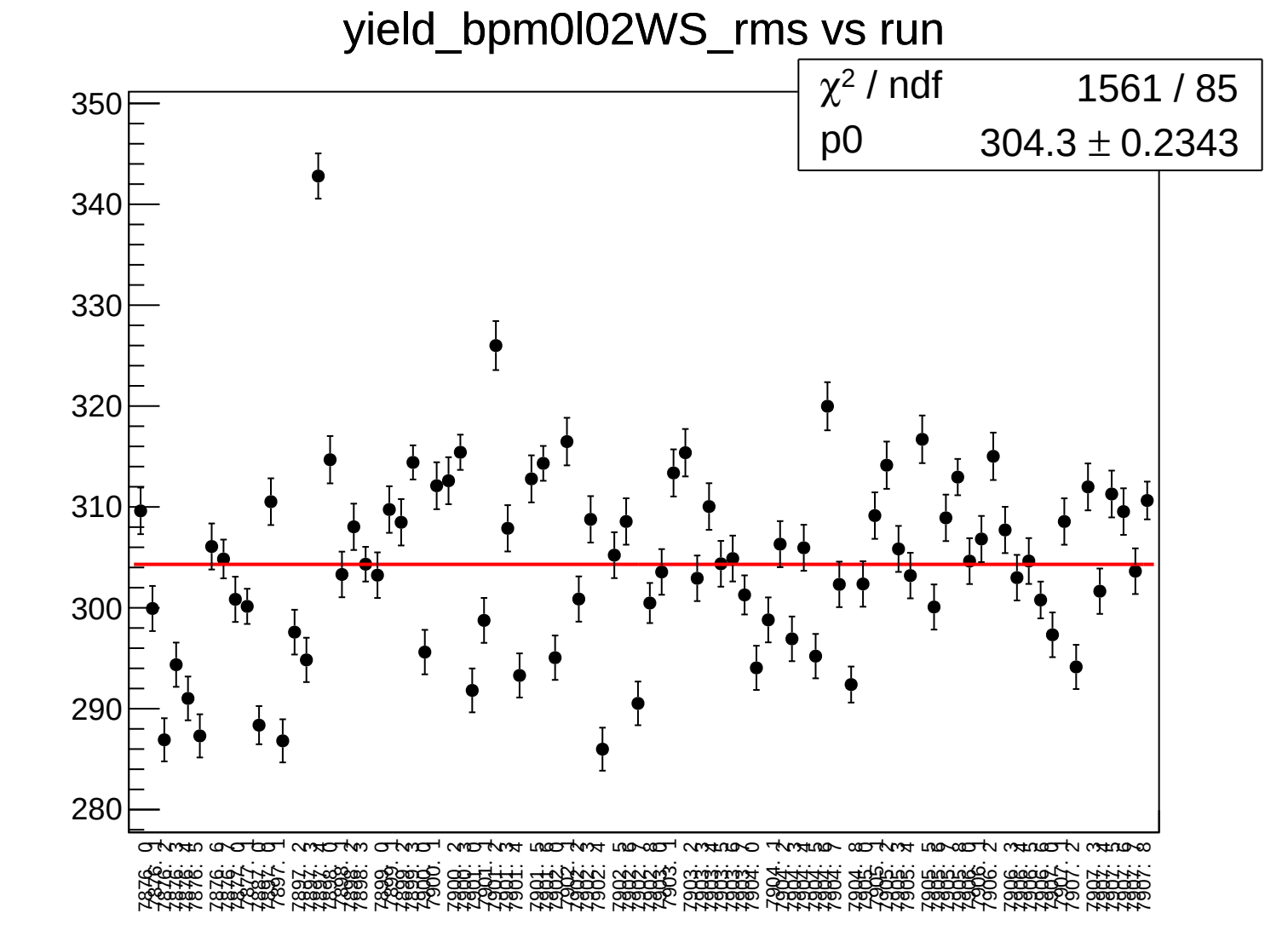

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 5.83e+05 / 85
p0 1.175e+05 ± 0.2351
117.9
117.8
117.7
117.6
117.5
117.4
117.3
117.2
117.1
pull
Entries 86
Mean 1764
Std Dev 0
200
150
100
50
0
−50
−100
−150

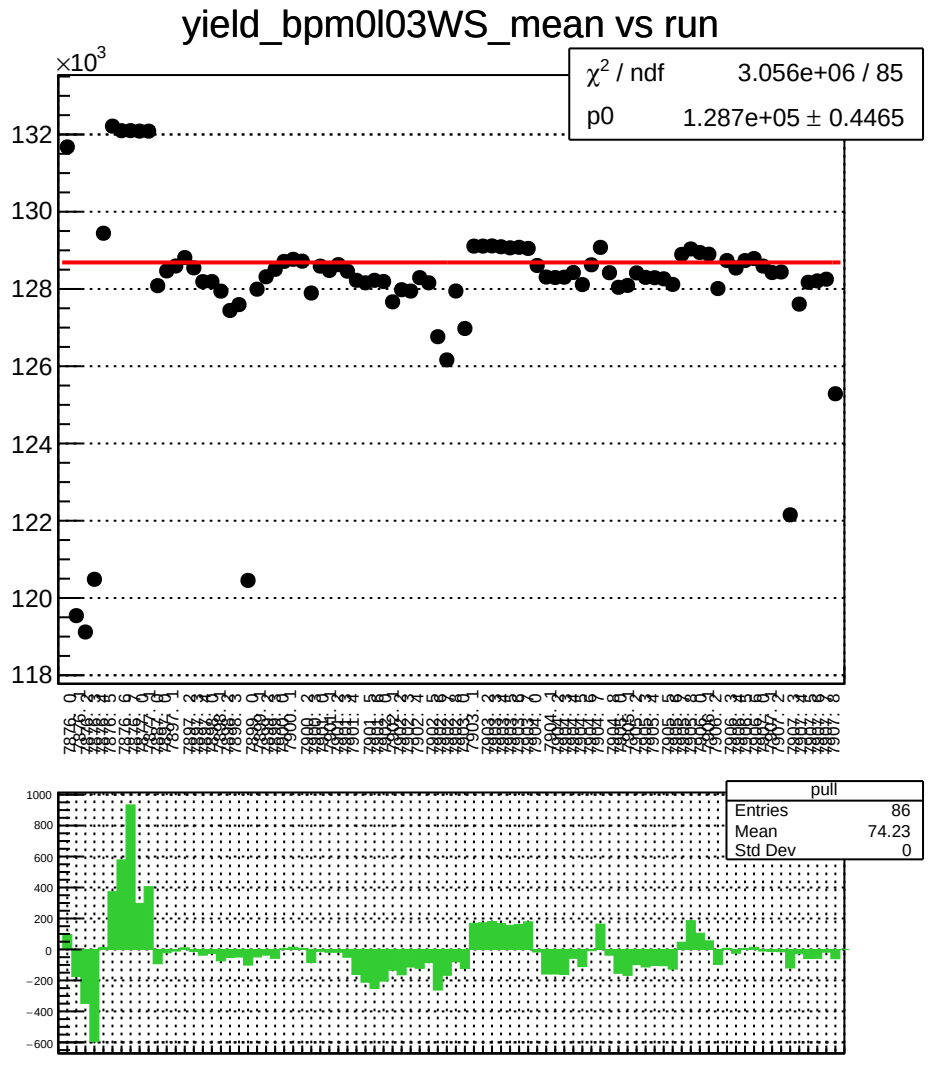

pull1D
Entries 86
Mean −4.633
Std Dev 0.6105
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

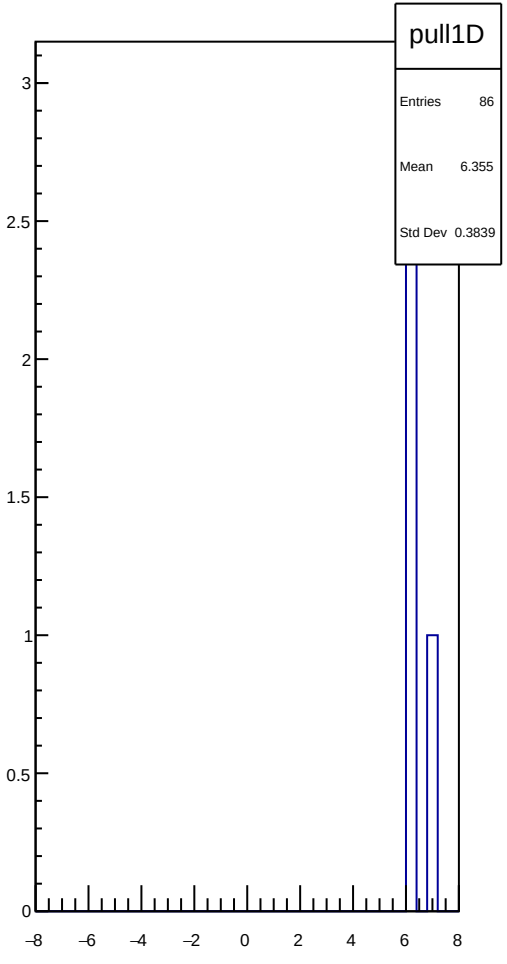

yield_bpm0l01WS_rms vs run
χ² / ndf 2193 / 85
p0 215.8 ± 0.1662
240
230
220
210
200

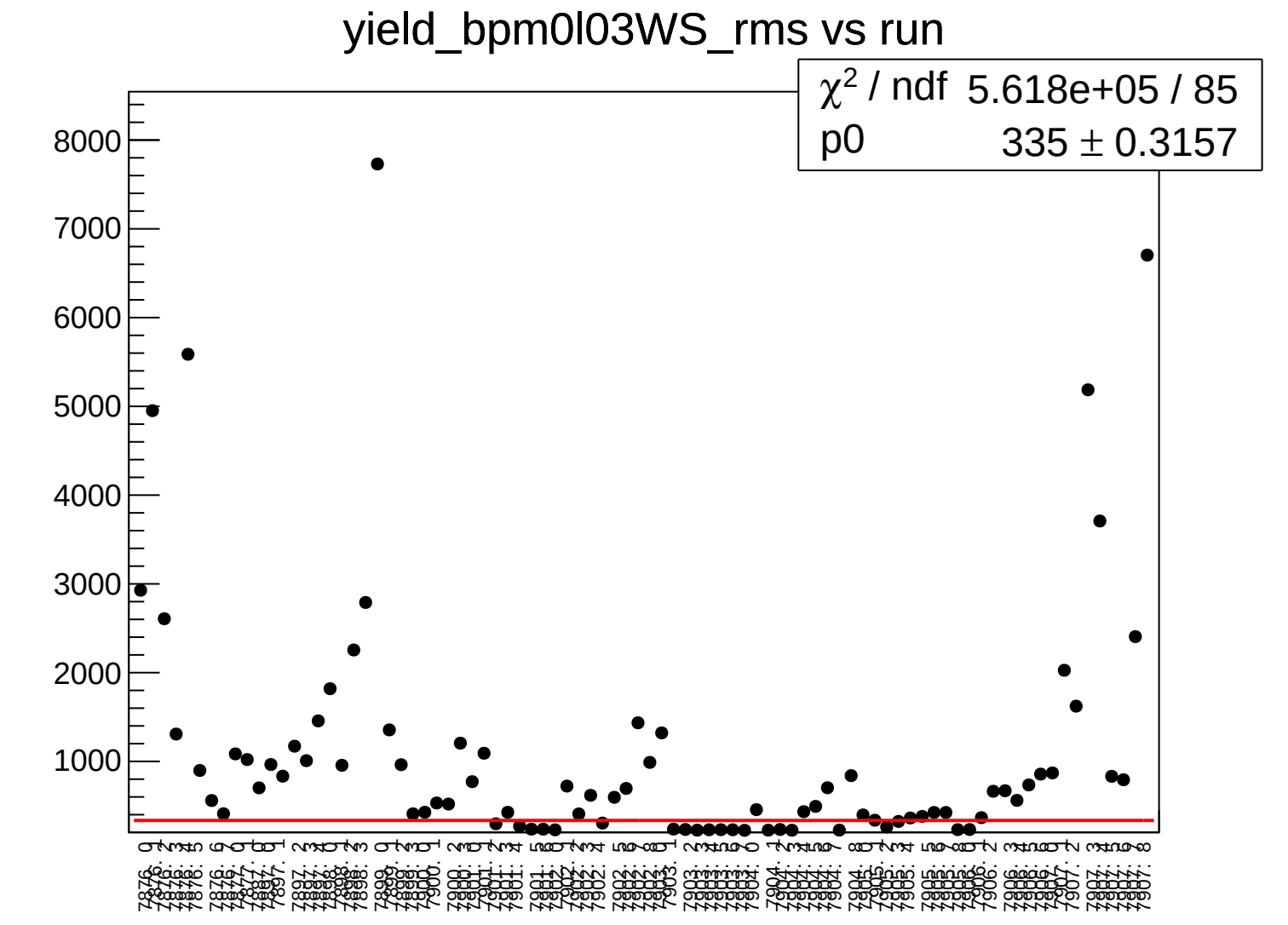

yield_bpm0l02WS_mean vs run
×10^3
137.5
137
136.5
136
135.5
135
134.5
χ² / ndf 5.167e+06 / 85
p0 1.365e+05 ± 0.3314
pull
Entries 86
Mean 1009
Std Dev 0
200
0
−200
−400
−600

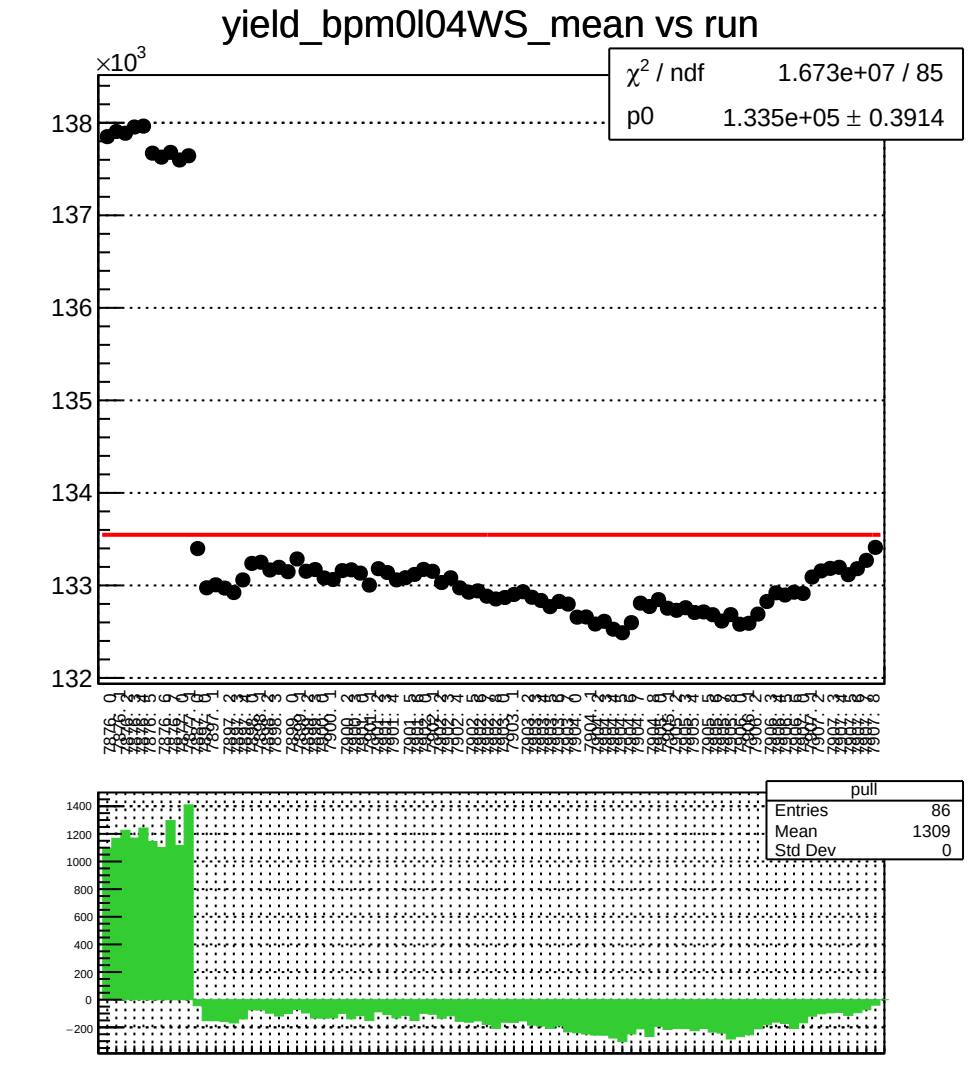

pull1D
Entries 86
Mean −7.81
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

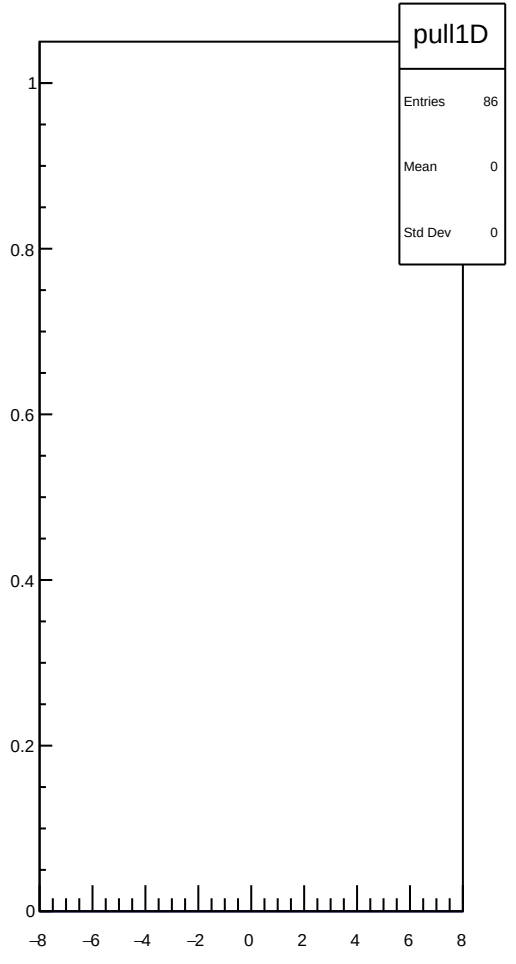

yield_bpm0l02WS_rms vs run
χ² / ndf 1561 / 85
p0 304.3 ± 0.2343
350
340
330
320
310
300
290
280

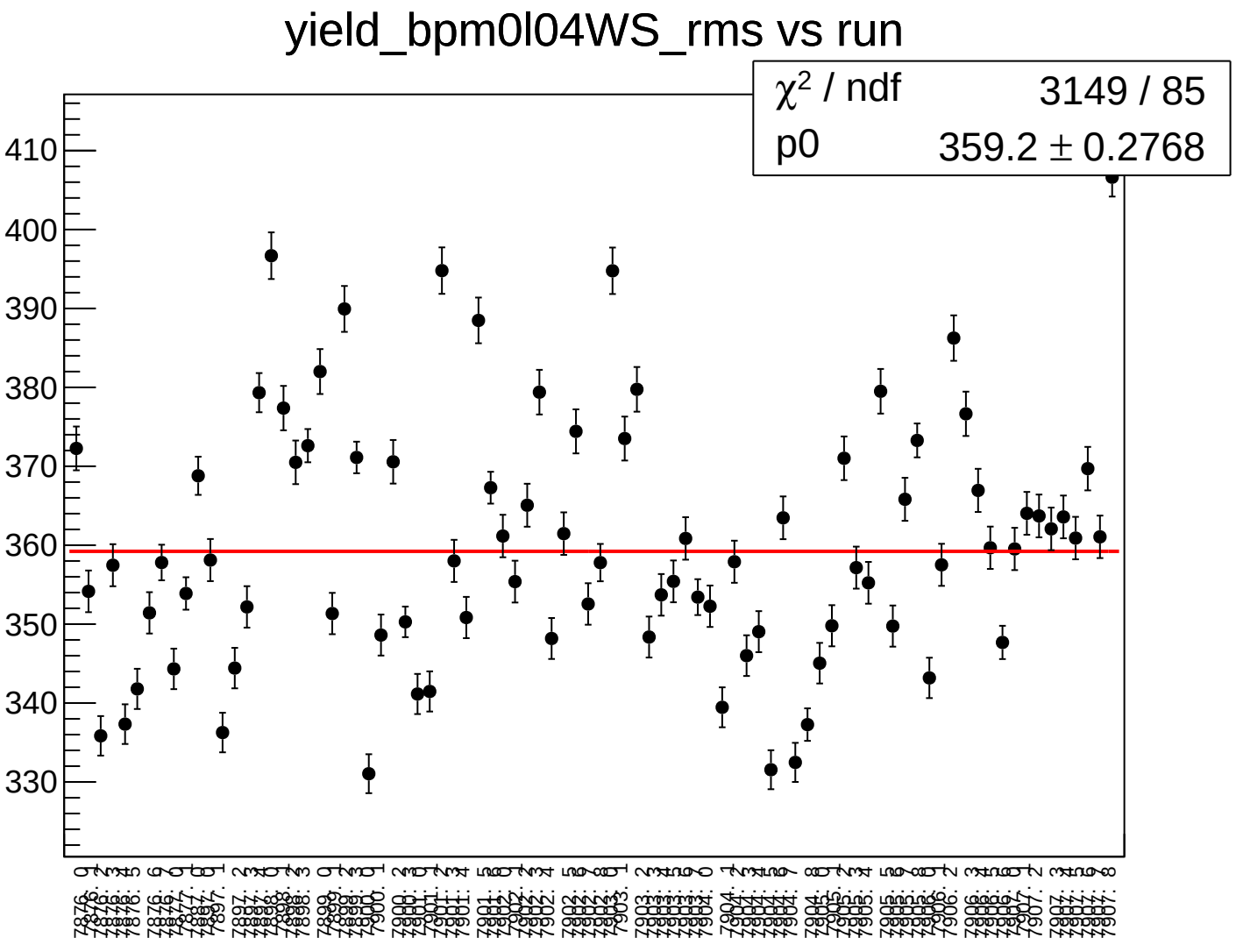

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3.056e+06 / 85
p0 1.287e+05 ± 0.4465
132
130
128
126
124
122
120
118
pull
Entries 86
Mean 74.23
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

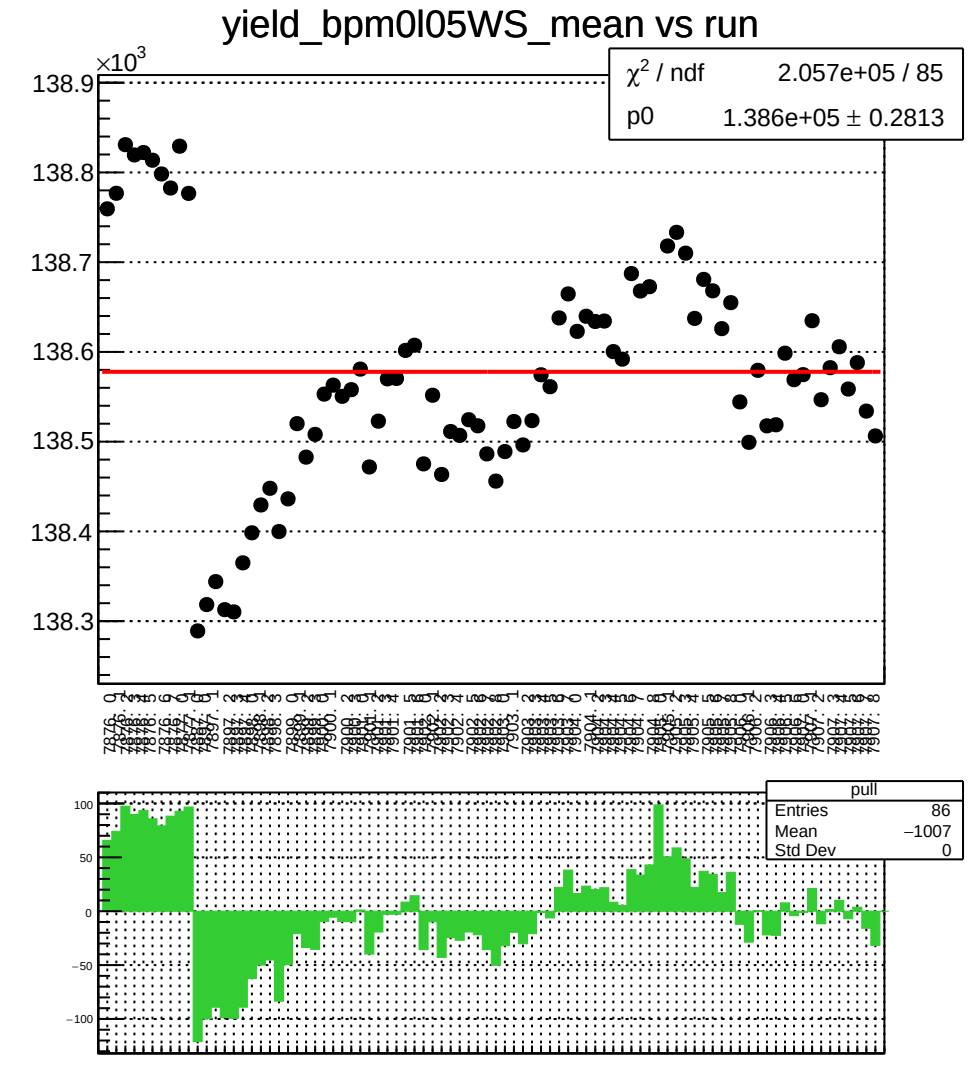

pull1D
Entries 86
Mean 6.355
Std Dev 0.3839
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

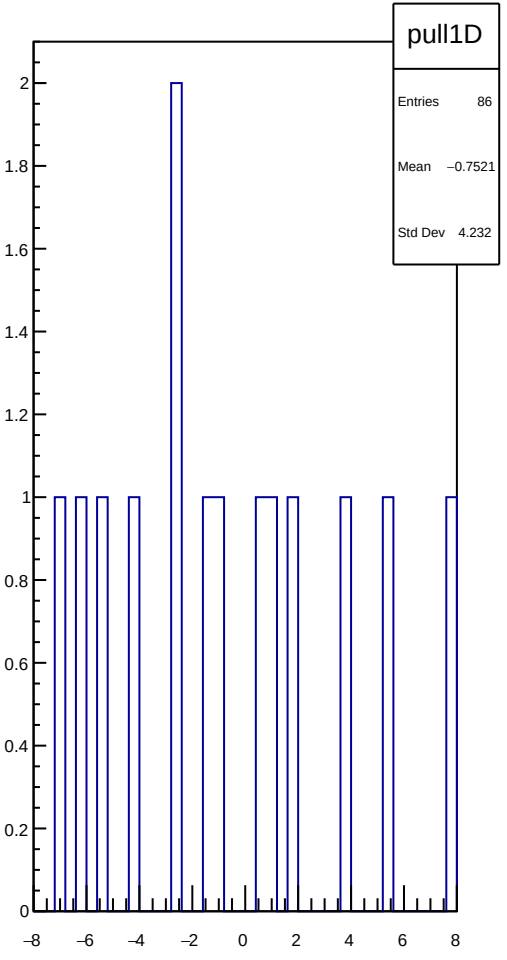

yield_bpm0l03WS_rms vs run
χ^2 / ndf 5.618e+05 / 85
p0 335 ± 0.3157
8000
7000
6000
5000
4000
3000
2000
1000

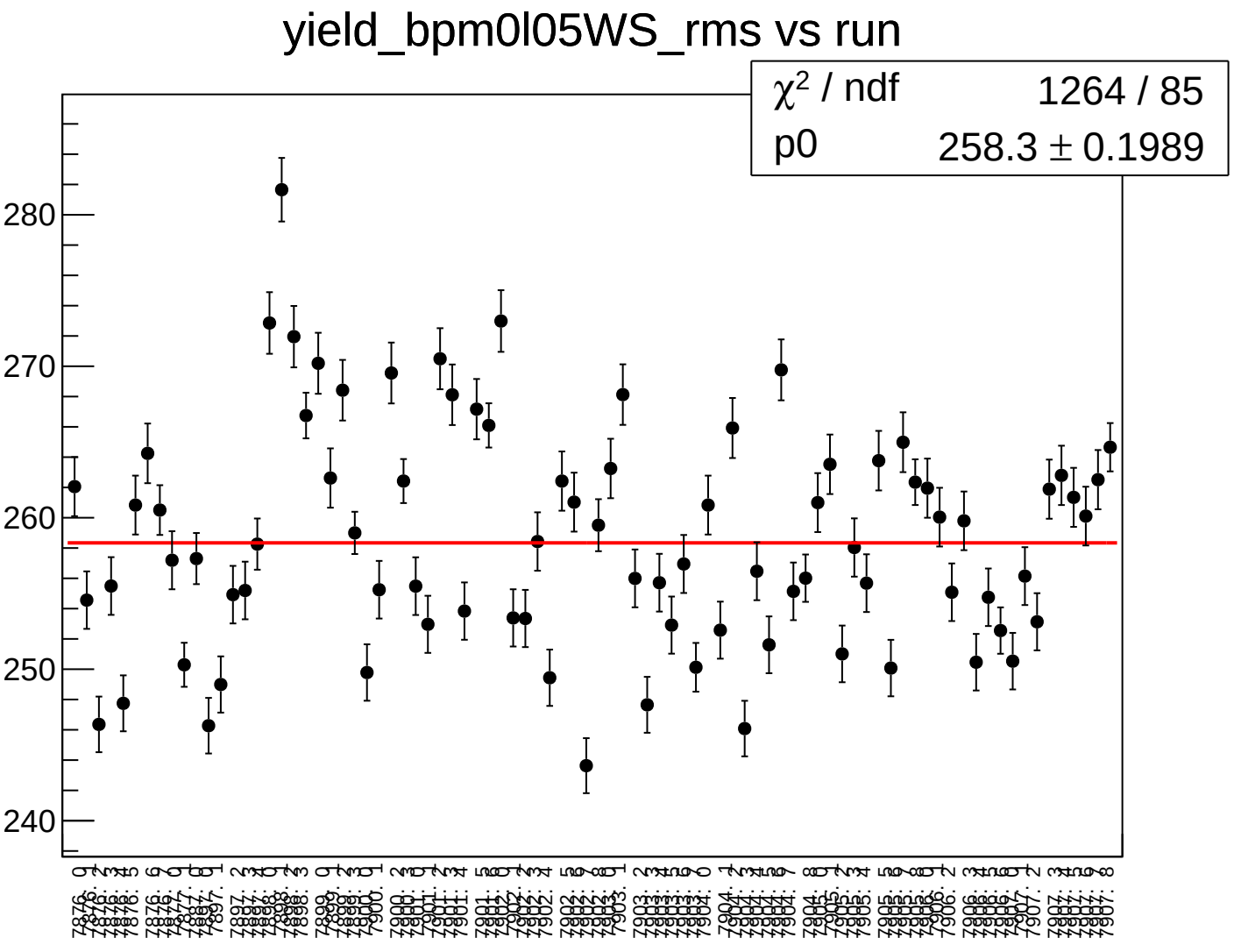

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.673e+07 / 85
p0 1.335e+05 ± 0.3914
138
137
136
135
134
133
132
pull
Entries 86
Mean 1309
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200

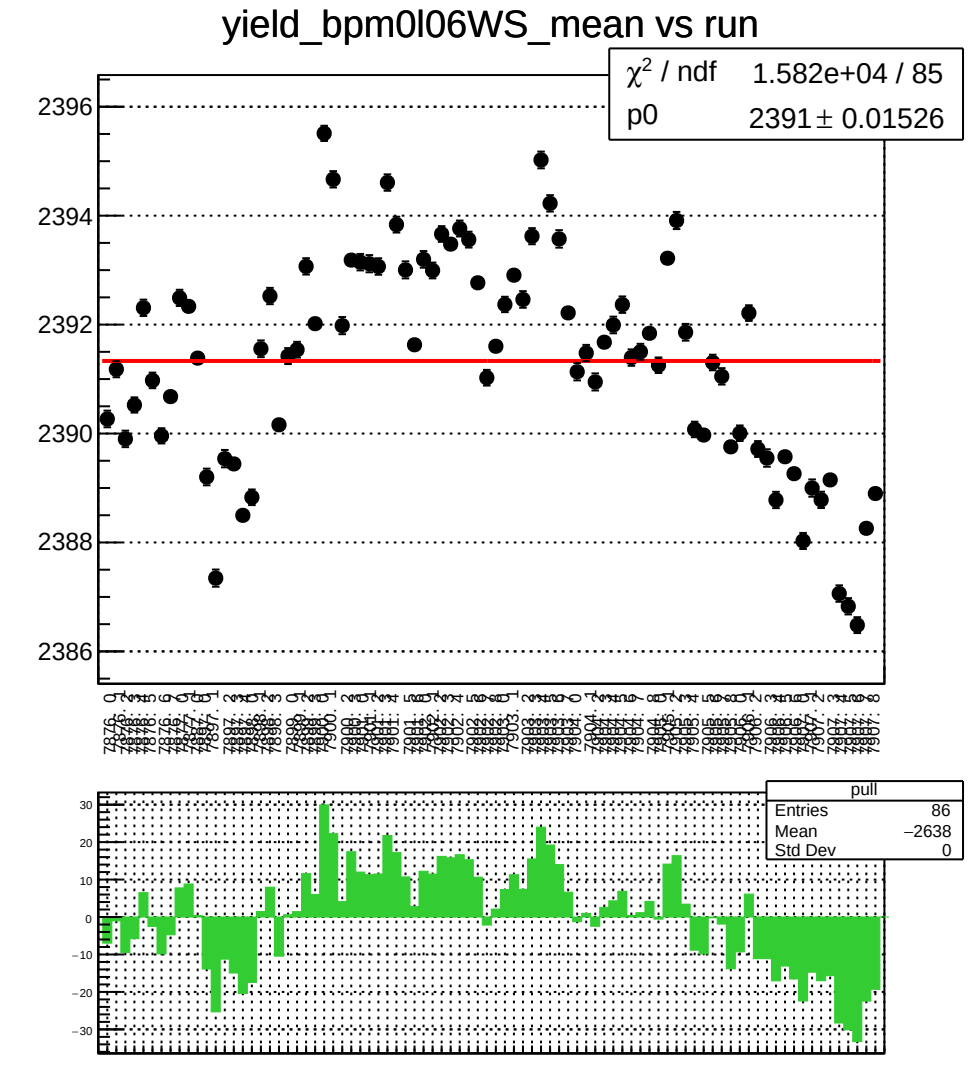

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

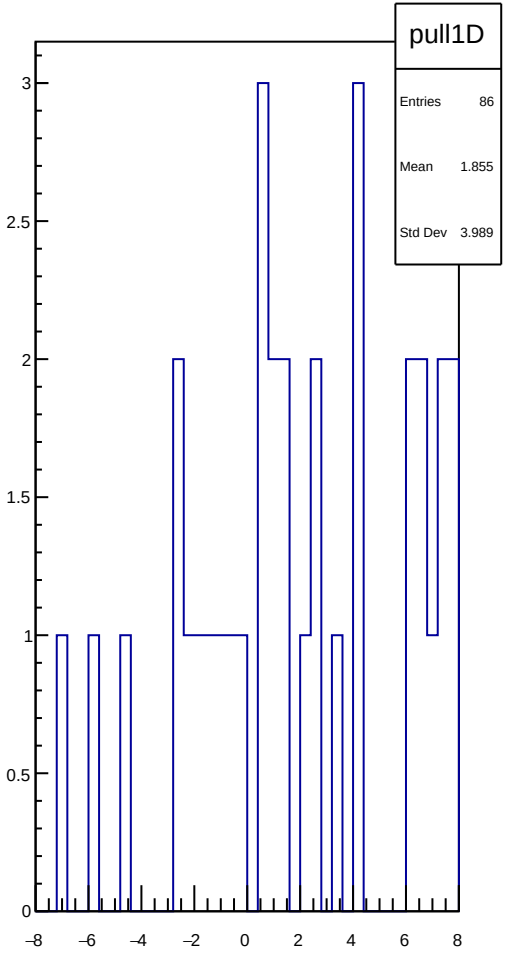

yield_bpm0l04WS_rms vs run
χ² / ndf 3149 / 85
p0 359.2 ± 0.2768
410
400
390
380
370
360
350
340
330

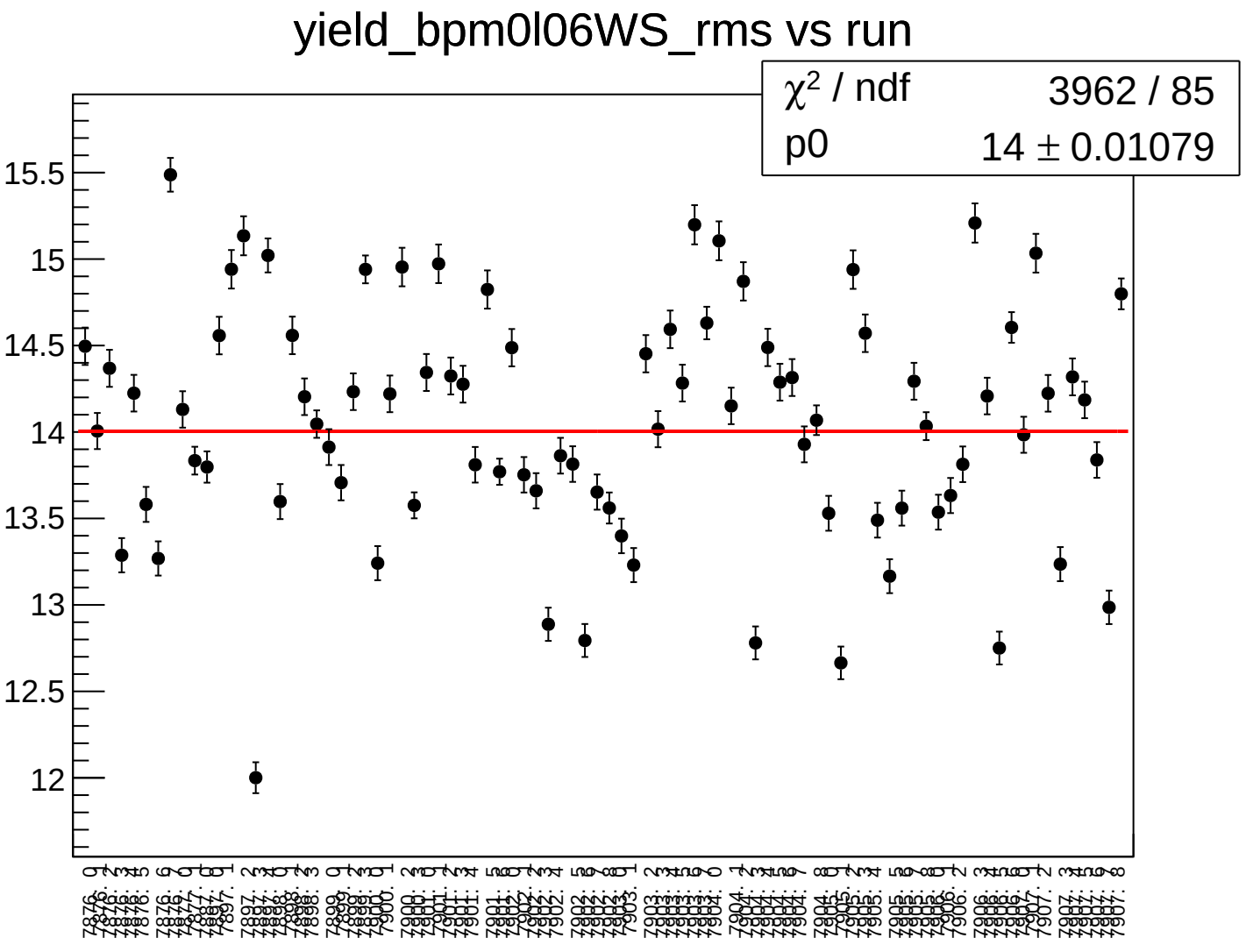

yield_bpm0l05WS_mean vs run
×10^3
138.9
138.8
138.7
138.6
138.5
138.4
138.3
χ² / ndf 2.057e+05 / 85
p0 1.386e+05 ± 0.2813
pull
Entries 86
Mean −1007
Std Dev 0
100
50
0
−50
−100

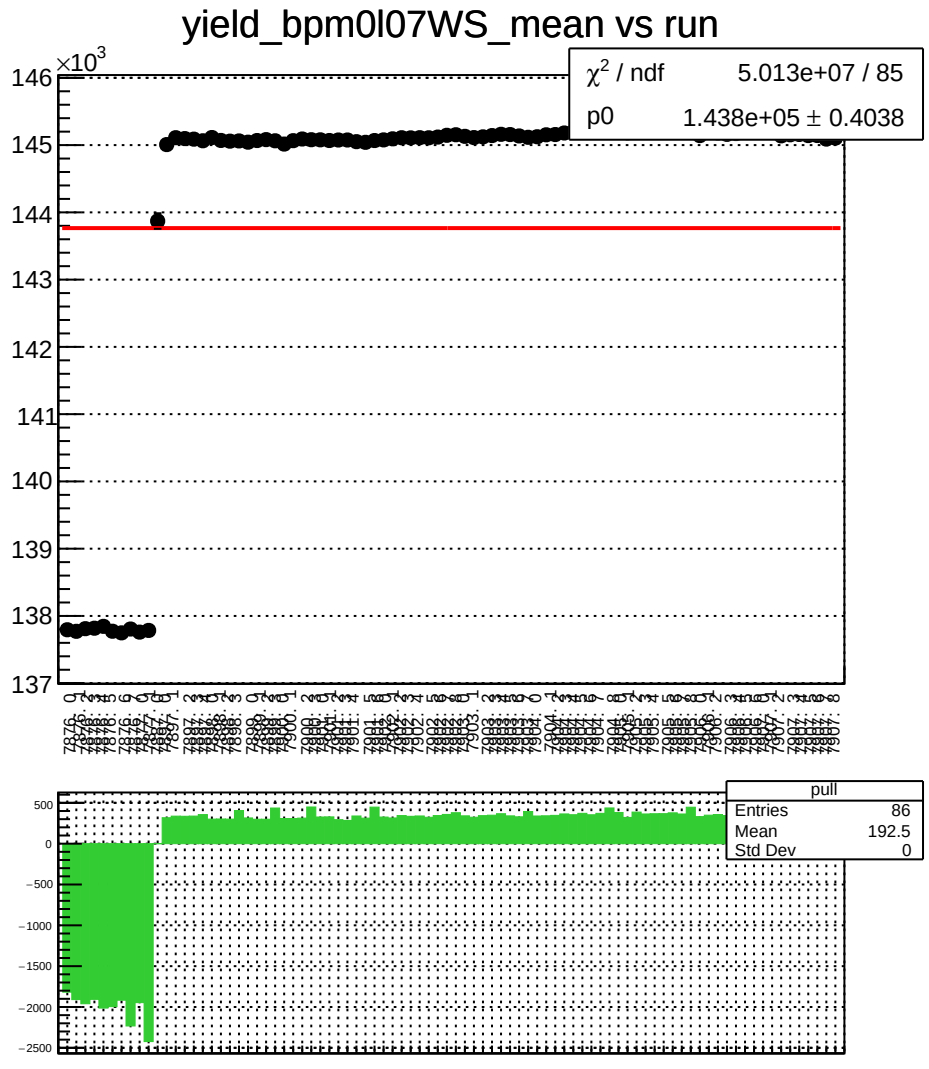

pull1D
Entries 86
Mean −0.7521
Std Dev 4.232
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

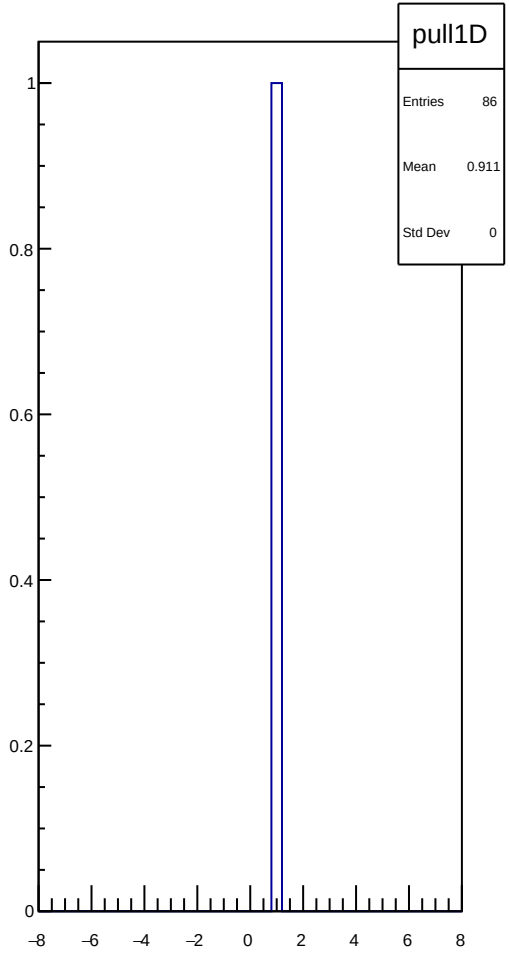

yield_bpm0l05WS_rms vs run
χ² / ndf 1264 / 85
p0 258.3 ± 0.1989
280
270
260
250
240

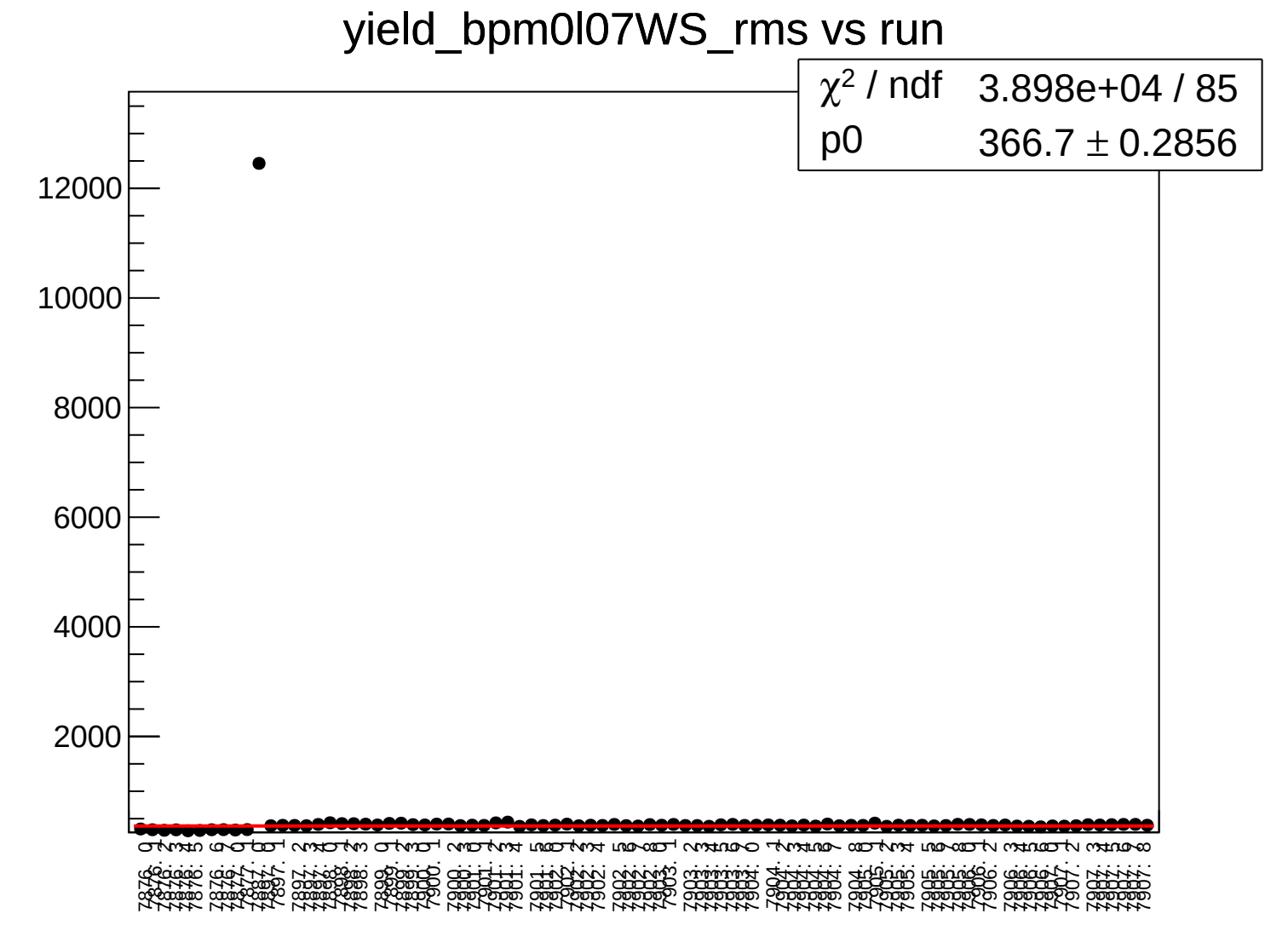

yield_bpm0l06WS_mean vs run
χ² / ndf 1.582e+04 / 85
p0 2391 ± 0.01526
2396
2394
2392
2390
2388
2386
pull
Entries 86
Mean −2638
Std Dev 0
30
20
10
0
−10
−20
−30

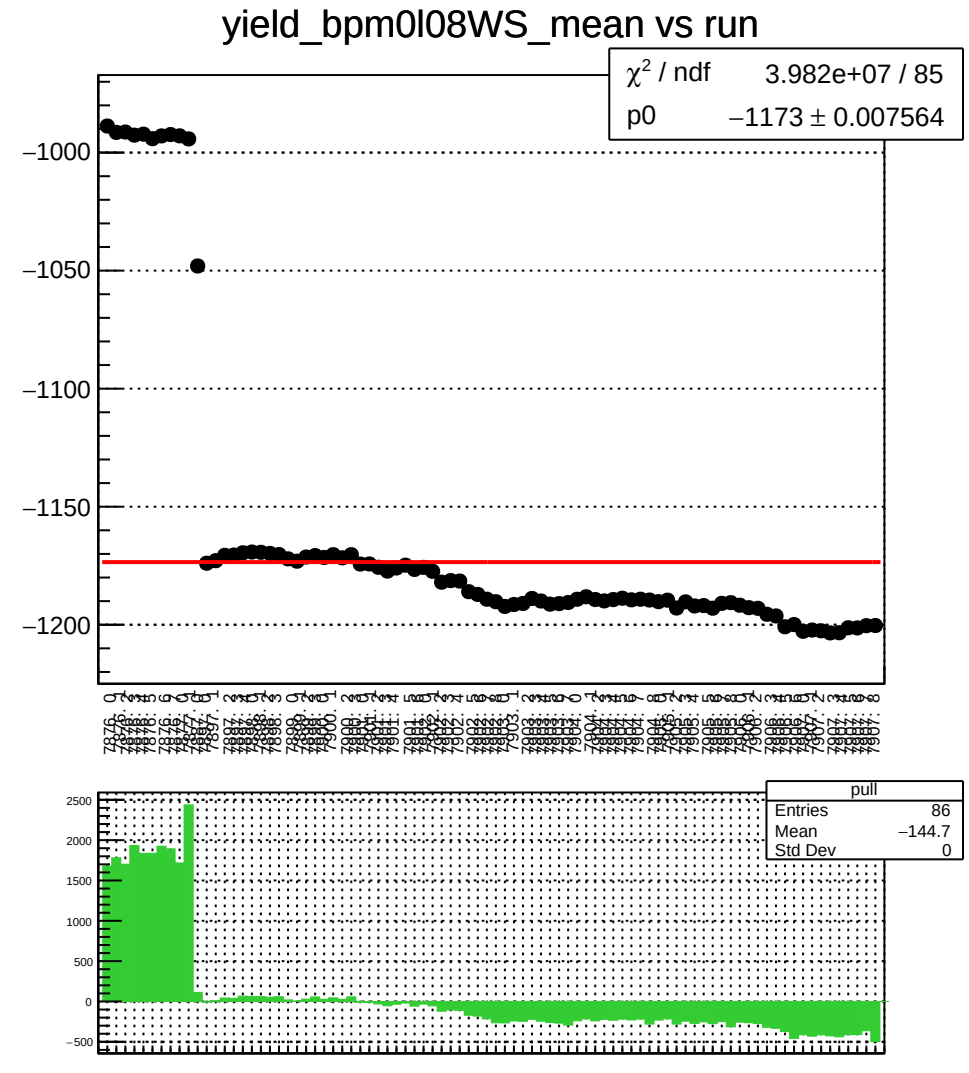

pull1D
Entries 86
Mean 1.855
Std Dev 3.989
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

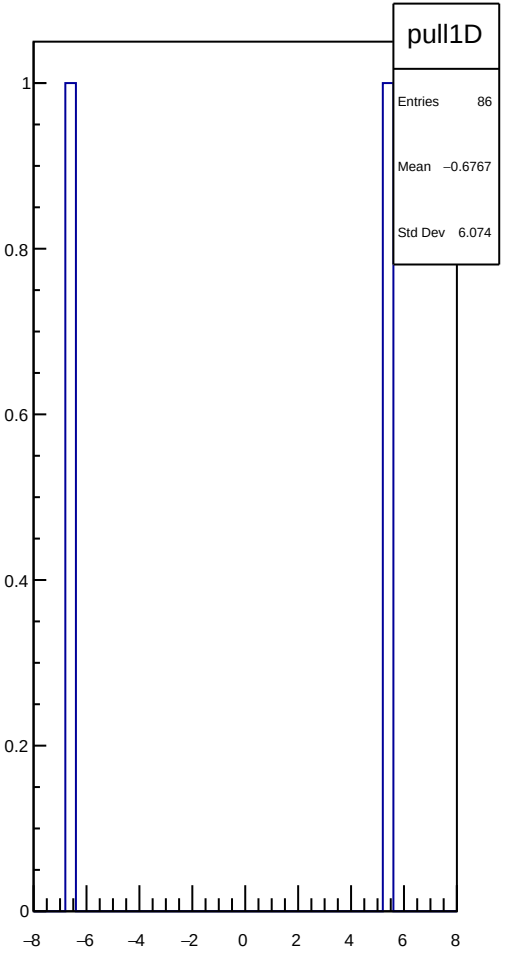

yield_bpm0l06WS_rms vs run
χ² / ndf 3962 / 85
p0 14 ± 0.01079
15.5
15
14.5
14
13.5
13
12.5
12

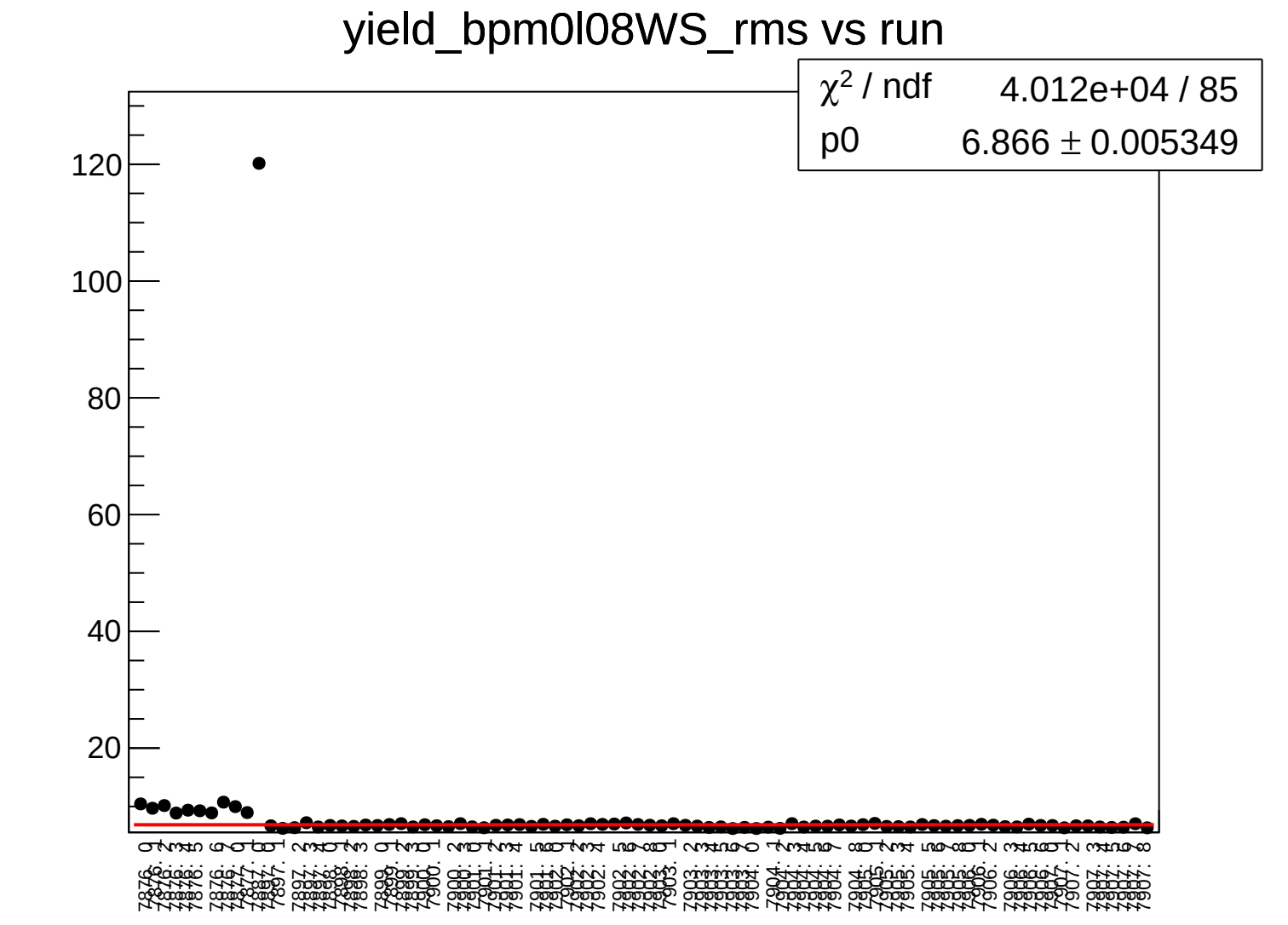

yield_bpm0l07WS_mean vs run
χ² / ndf 5.013e+07 / 85
p0 1.438e+05 ± 0.4038
×10³
146
145
144
143
142
141
140
139
138
137
pull
Entries 86
Mean 192.5
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500

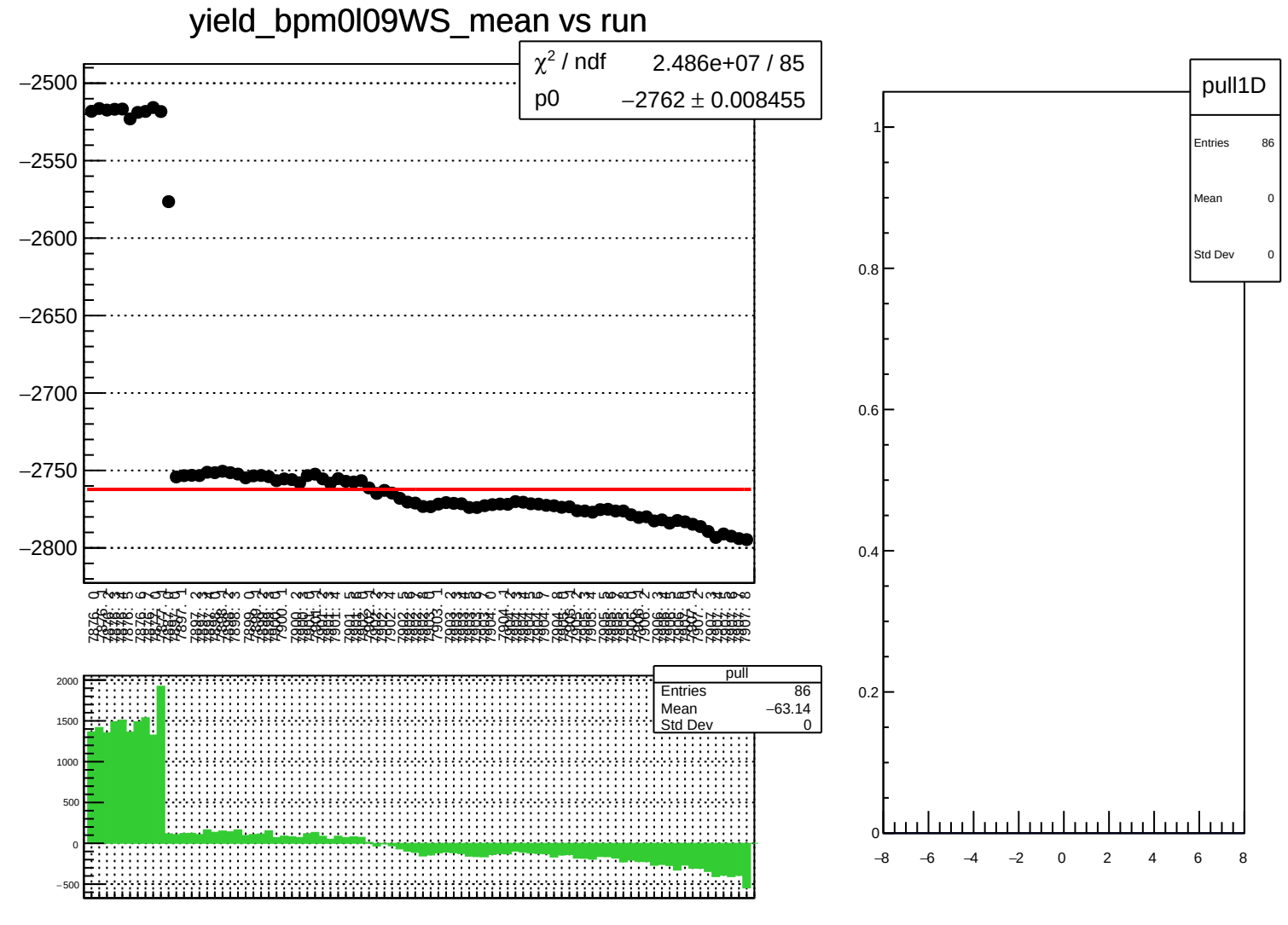

pull1D
Entries 86
Mean 0.911
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

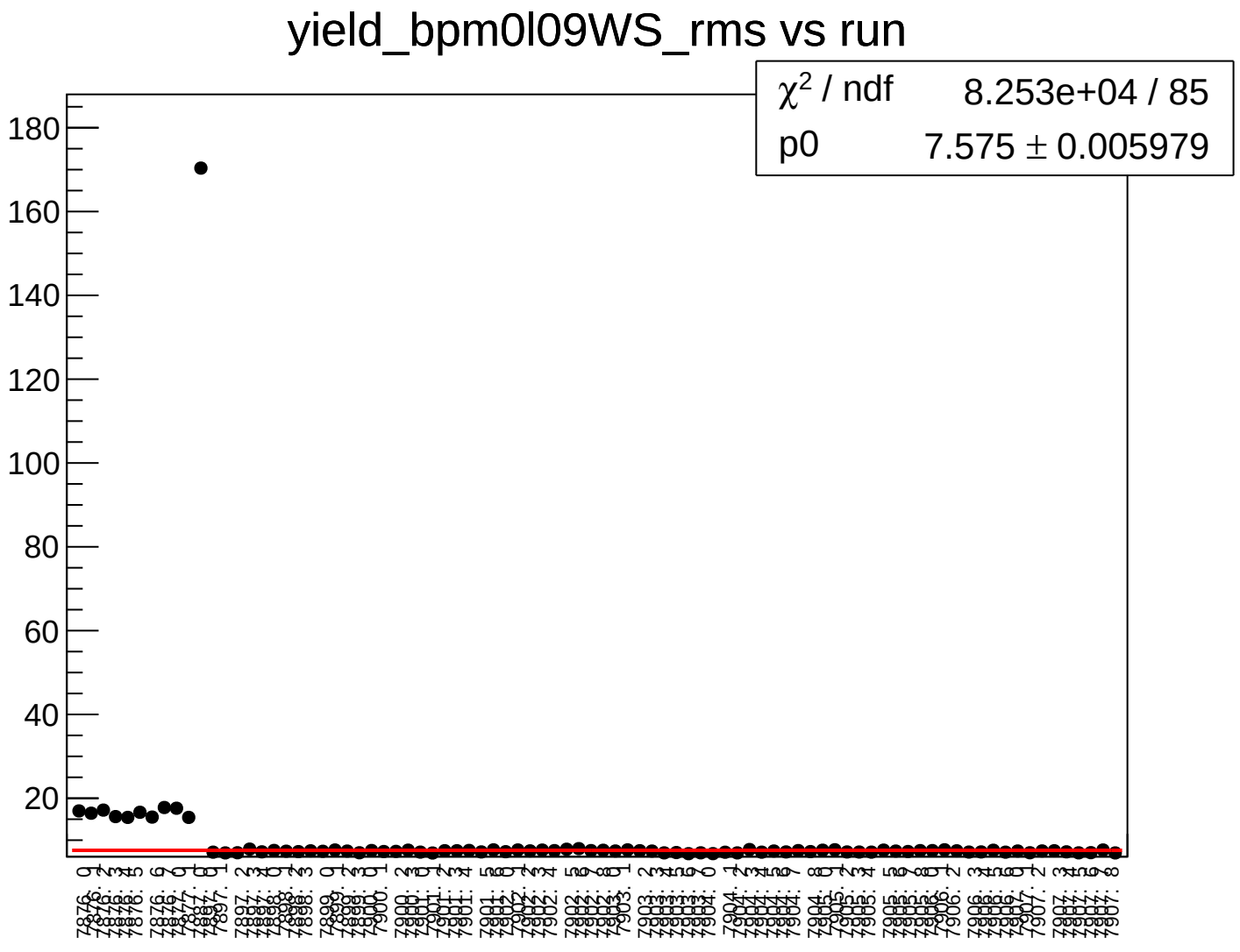

yield_bpm0l07WS_rms vs run
χ² / ndf 3.898e+04 / 85
p0 366.7 ± 0.2856
12000
10000
8000
6000
4000
2000

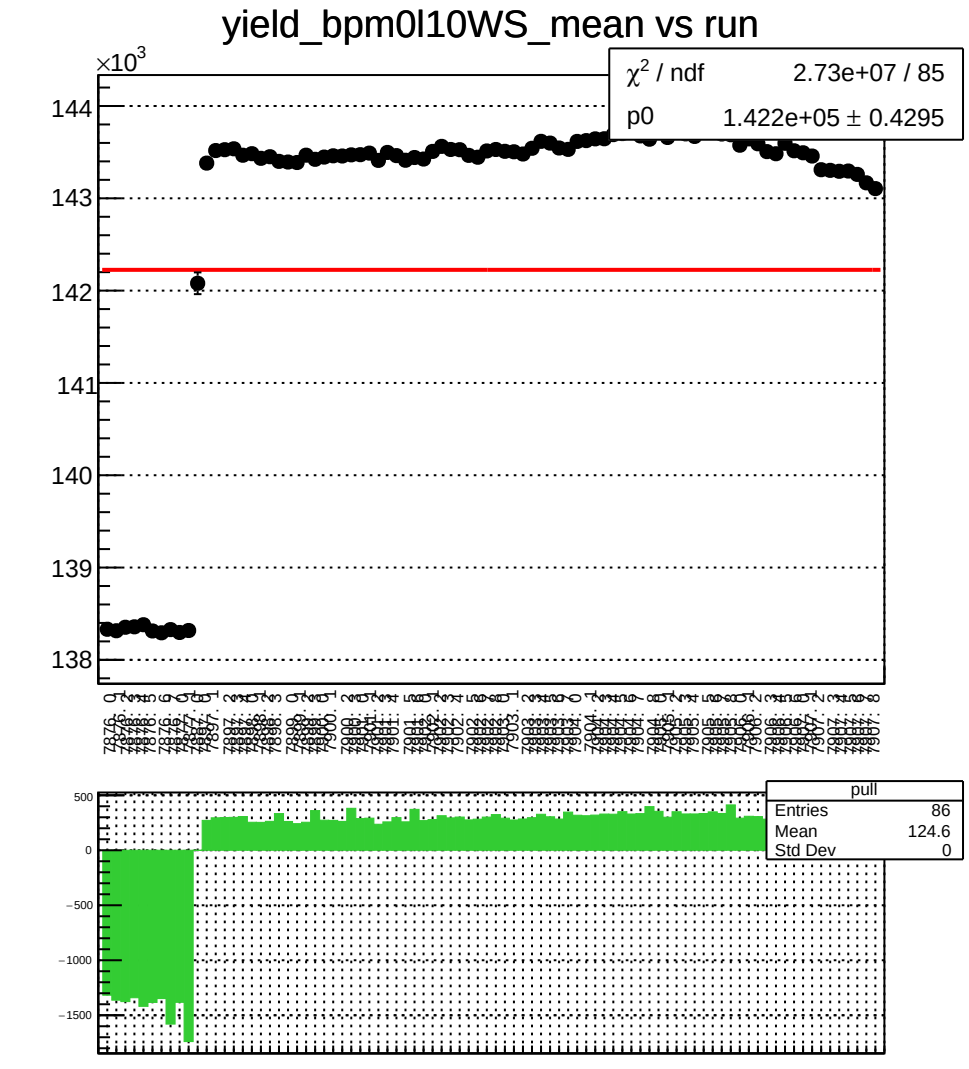

yield_bpm0l08WS_mean vs run
χ² / ndf 3.982e+07 / 85
p0 −1173 ± 0.007564
−1000
−1050
−1100
−1150
−1200
pull
Entries 86
Mean −144.7
Std Dev 0
2500
2000
1500
1000
500
0
−500

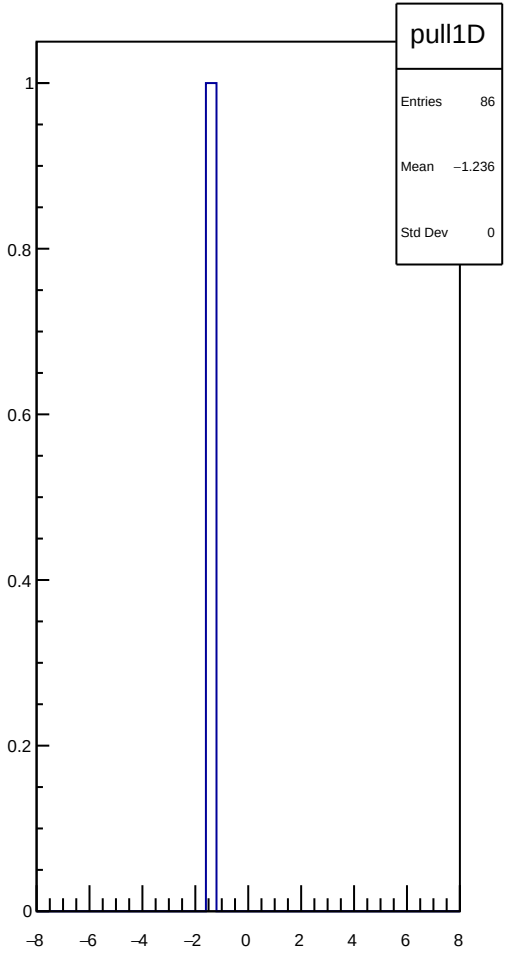

pull1D
Entries 86
Mean −0.6767
Std Dev 6.074
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

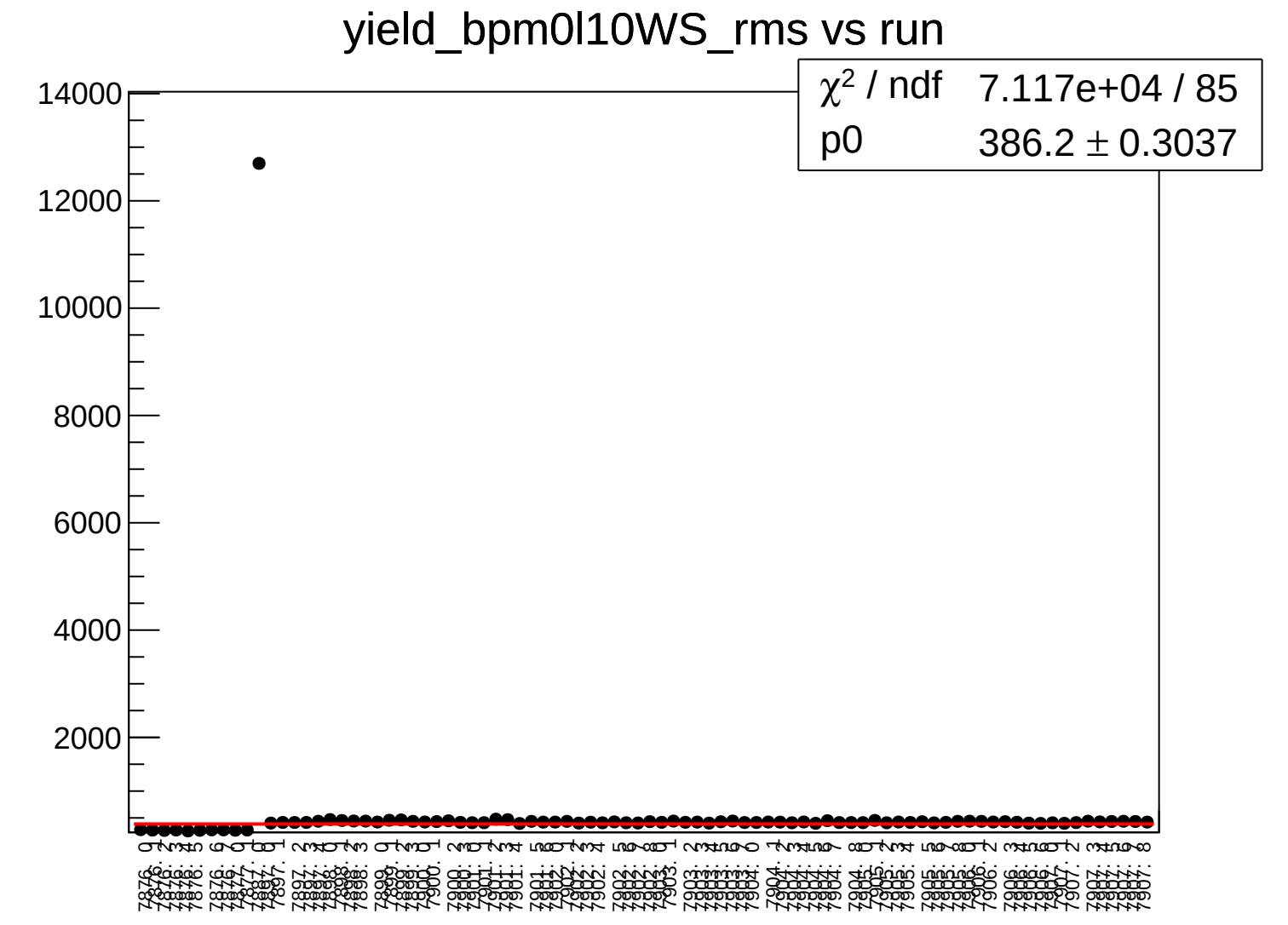

yield_bpm0l08WS_rms vs run
χ^2 / ndf 4.012e+04 / 85
p0 6.866 ± 0.005349
120
100
80
60
40
20

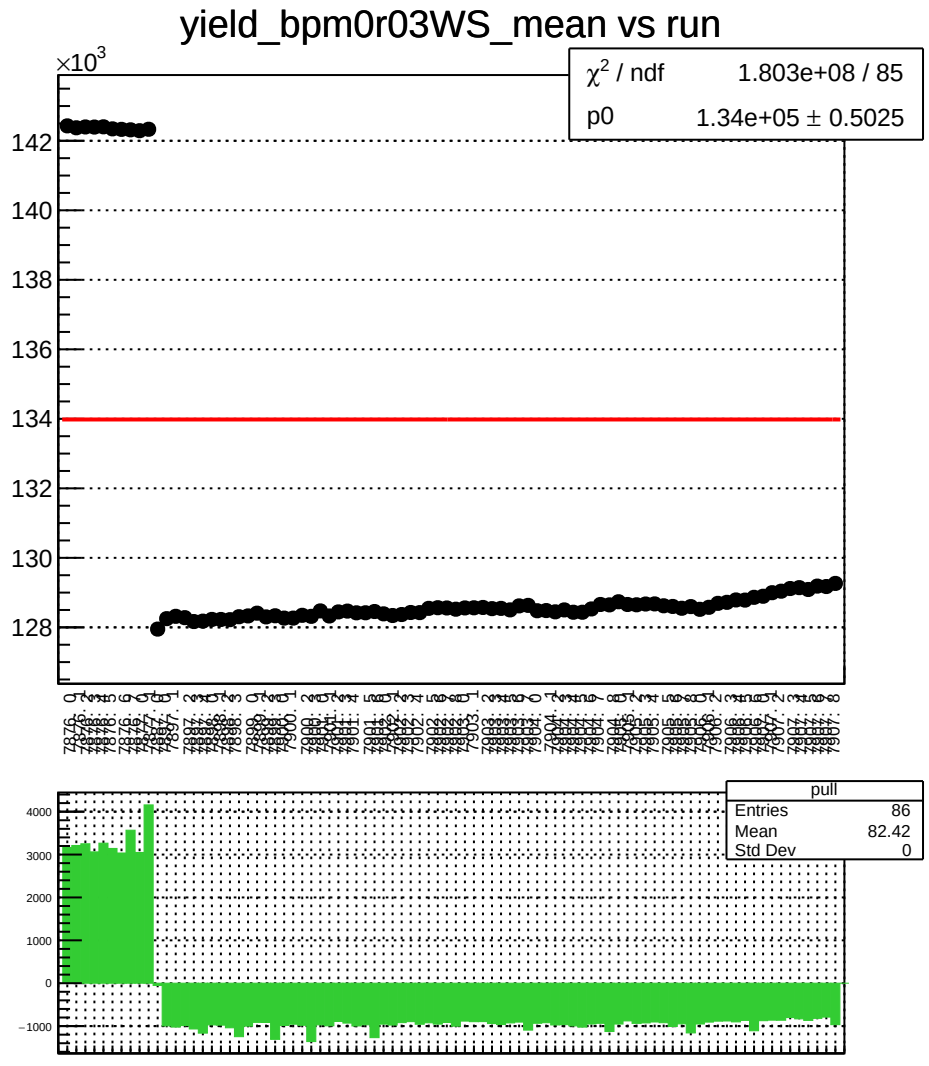

yield_bpm0l09WS_mean vs run
χ² / ndf 2.486e+07 / 85
p0 −2762 ± 0.008455
−2500
−2550
−2600
−2650
−2700
−2750
−2800
pull
Entries 86
Mean −63.14
Std Dev 0
2000
1500
1000
500
0
−500
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

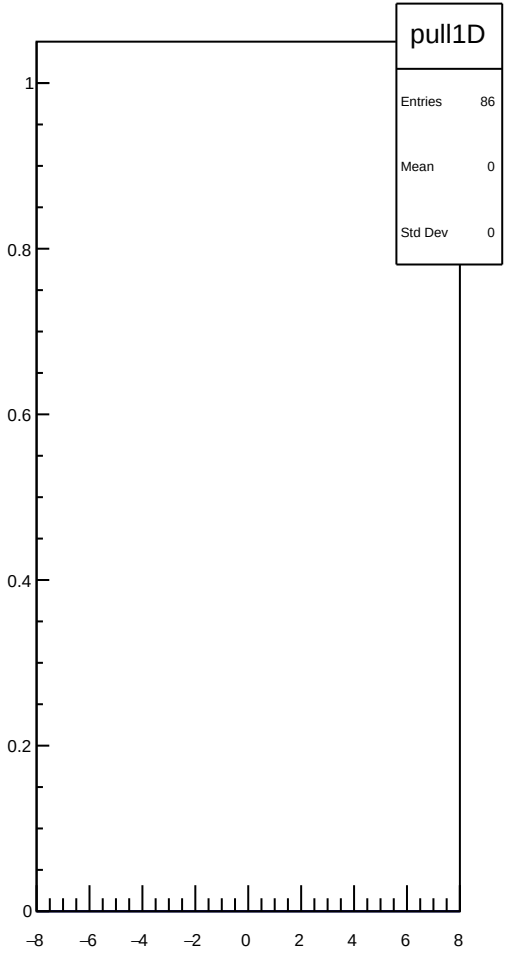

yield_bpm0l09WS_rms vs run
χ² / ndf 8.253e+04 / 85
p0 7.575 ± 0.005979
180
160
140
120
100
80
60
40
20

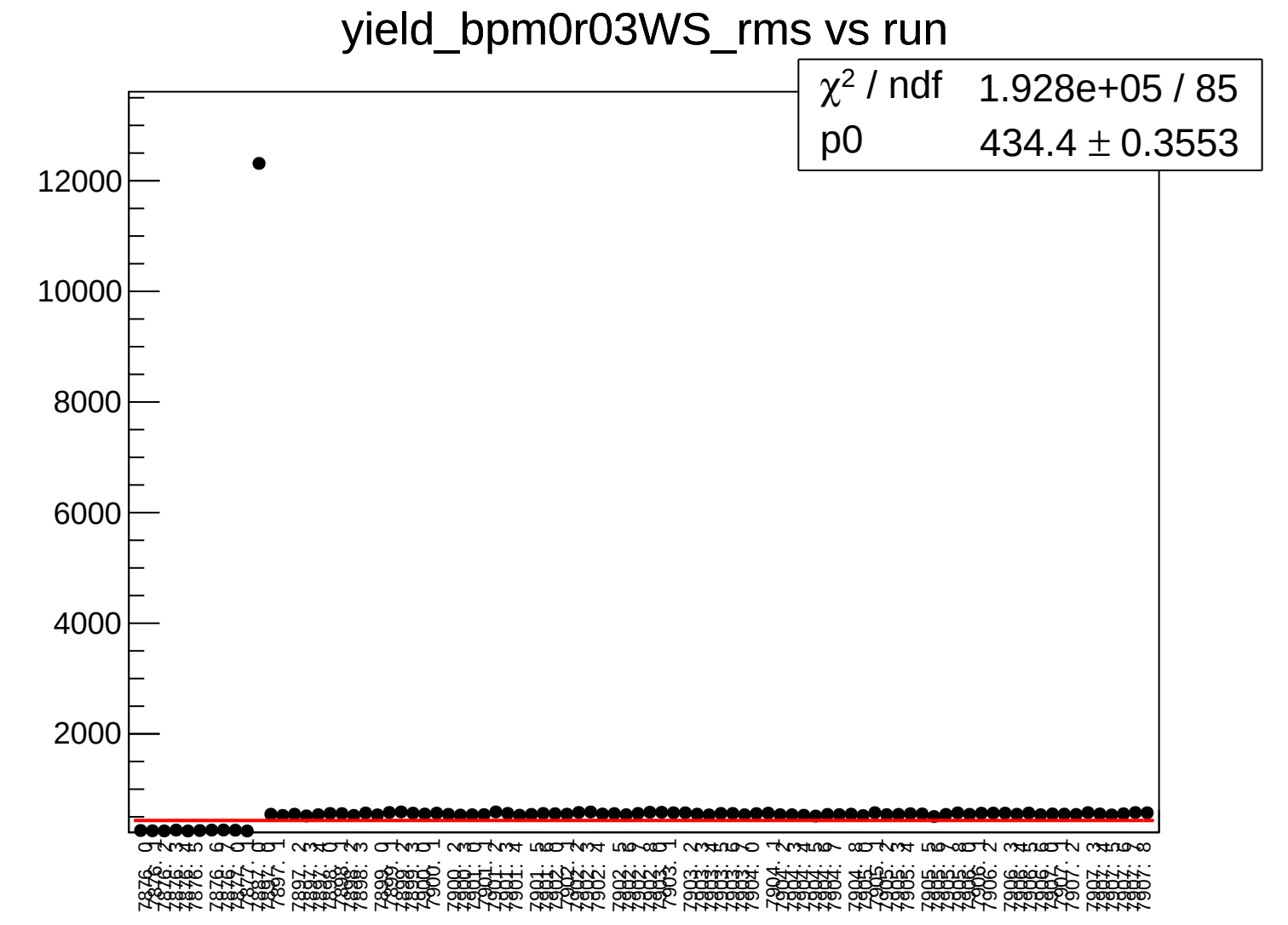

yield_bpm0l10WS_mean vs run
×10^3
144
143
142
141
140
139
138
χ² / ndf 2.73e+07 / 85
p0 1.422e+05 ± 0.4295
pull
Entries 86
Mean 124.6
Std Dev 0
500
0
−500
−1000
−1500

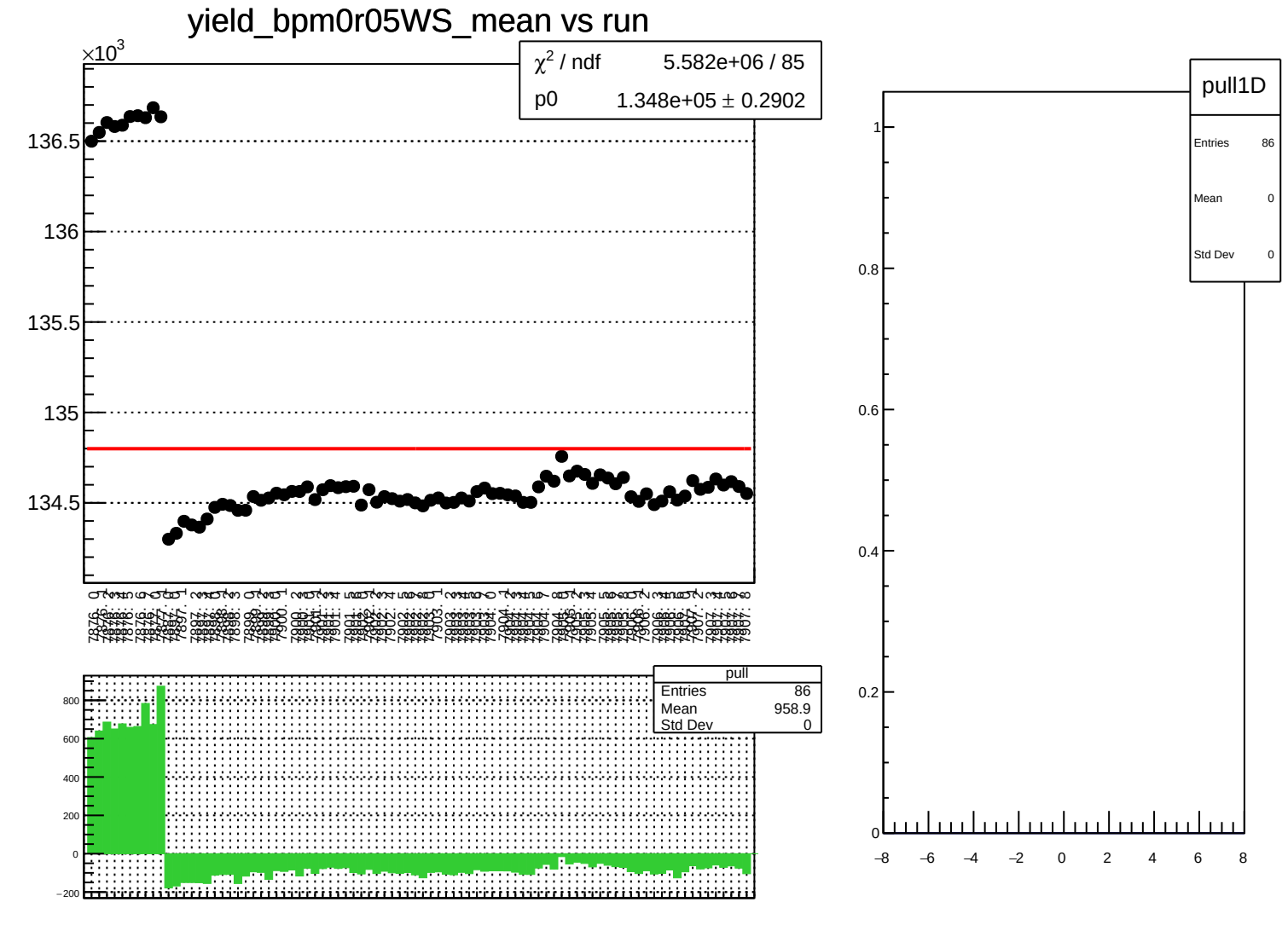

pull1D
Entries 86
Mean −1.236
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

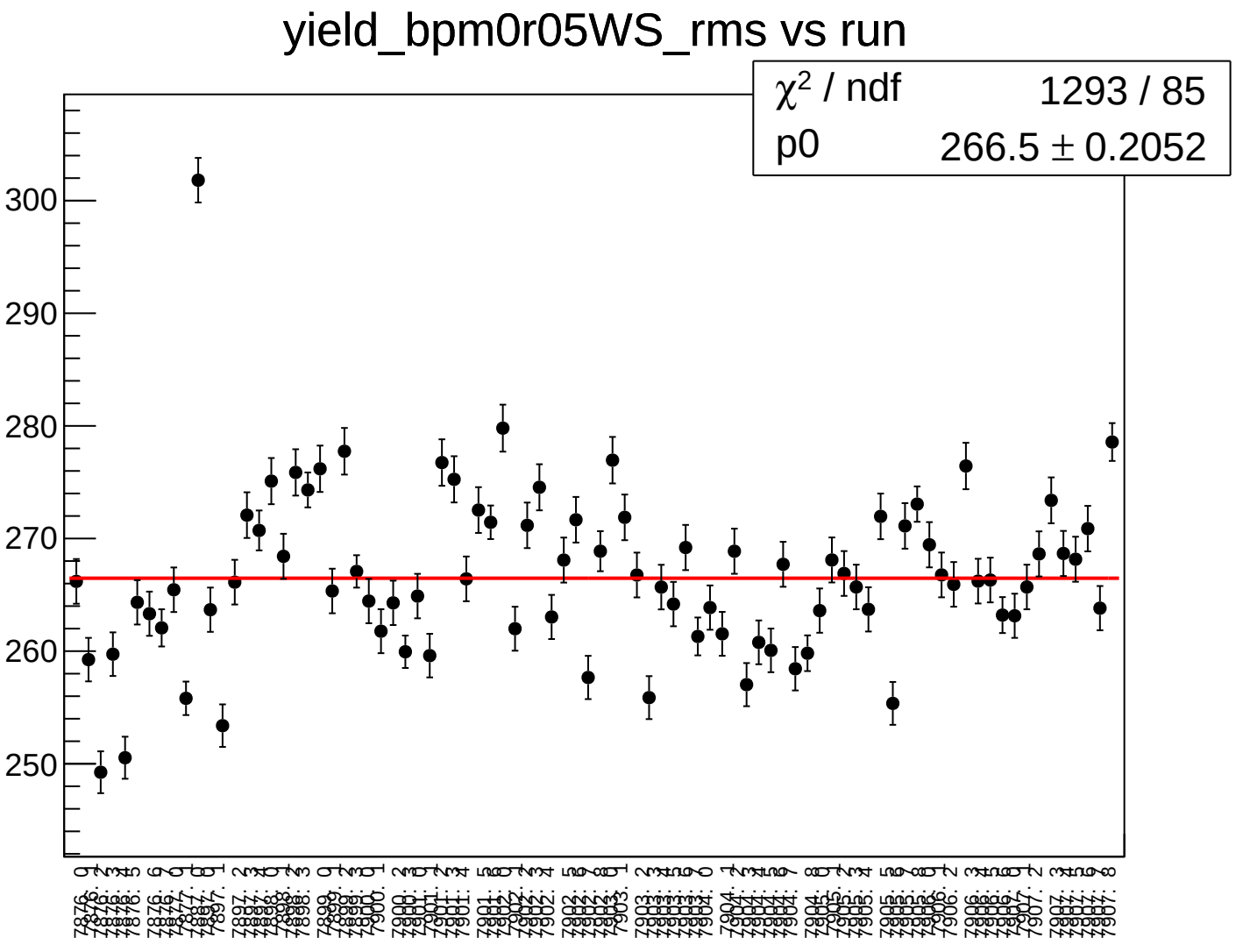

yield_bpm0l10WS_rms vs run
χ^2 / ndf 7.117e+04 / 85
p0 386.2 ± 0.3037
14000
12000
10000
8000
6000
4000
2000

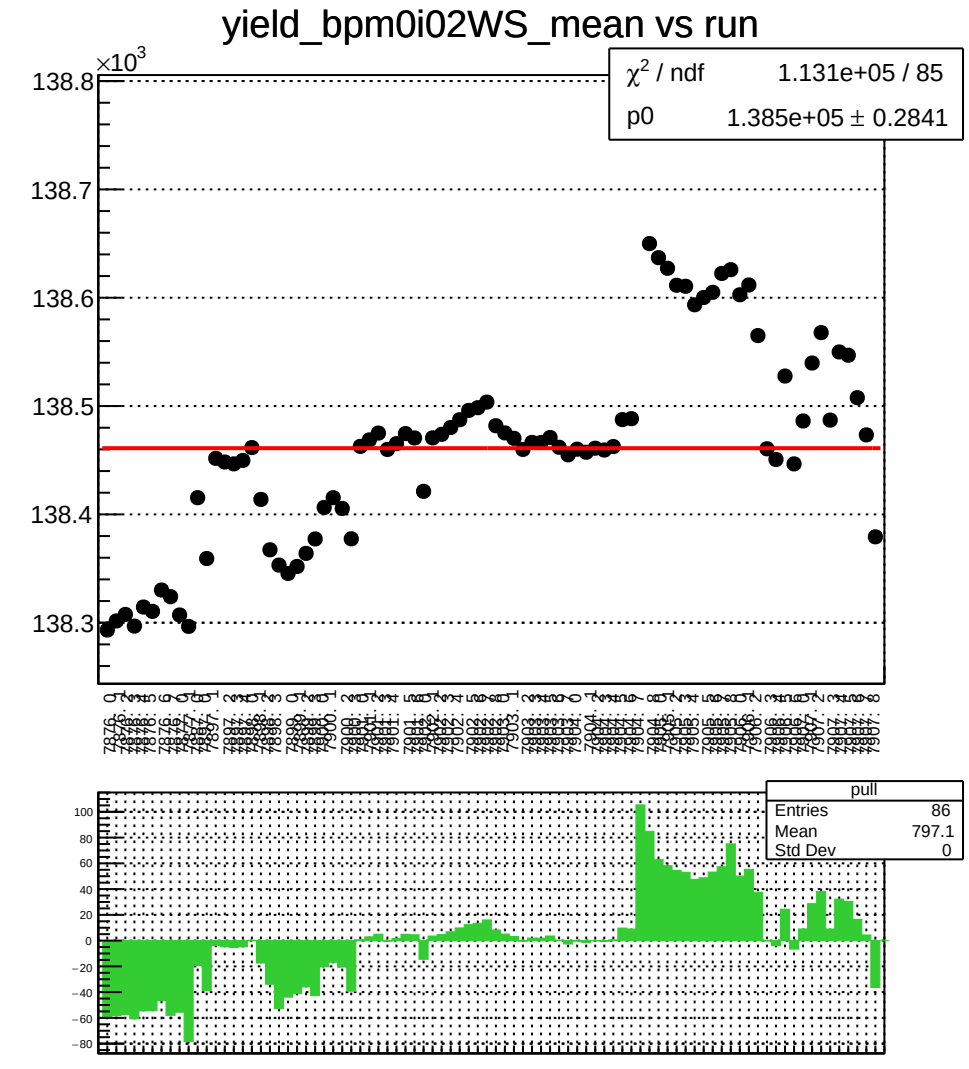

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.803e+08 / 85
p0 1.34e+05 ± 0.5025
142
140
138
136
134
132
130
128
pull
Entries 86
Mean 82.42
Std Dev 0
4000
3000
2000
1000
0
−1000

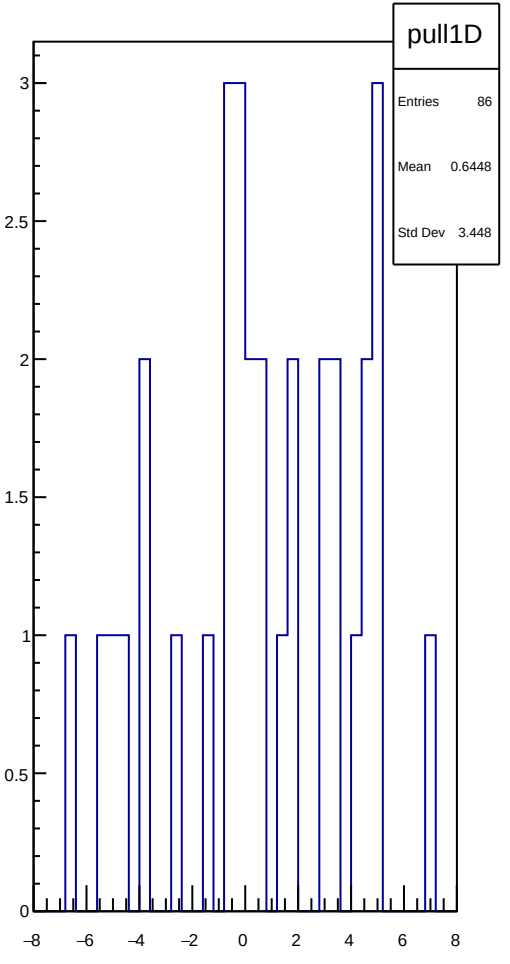

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

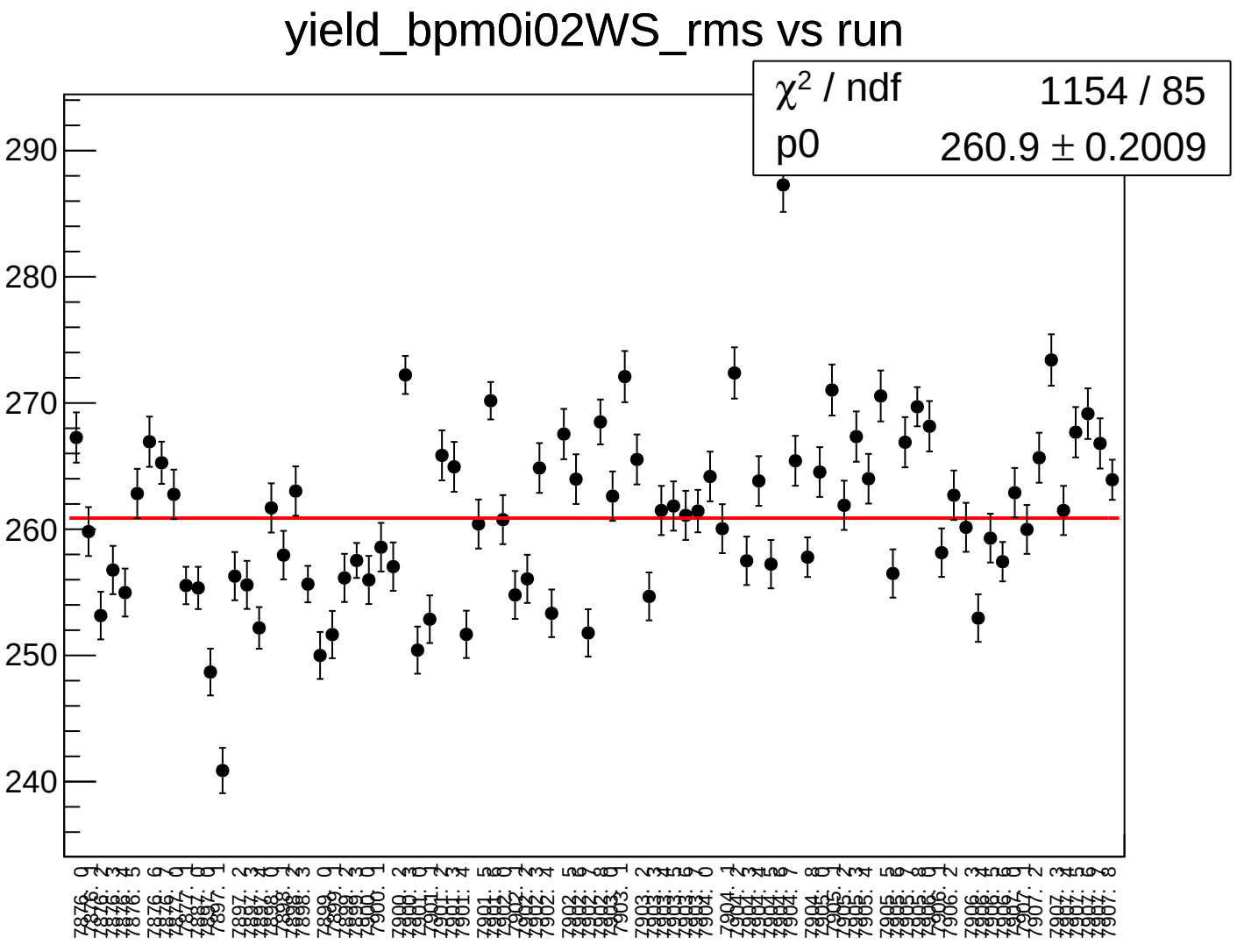

yield_bpm0r03WS_rms vs run
χ² / ndf 1.928e+05 / 85
p0 434.4 ± 0.3553
12000
10000
8000
6000
4000
2000

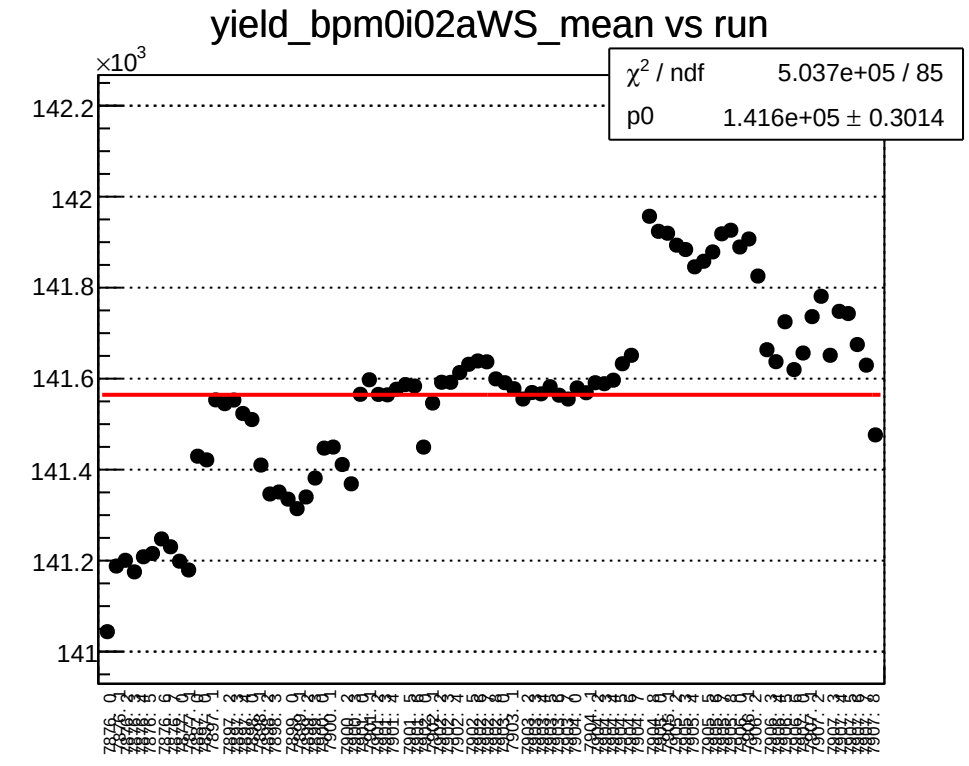

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 5.582e+06 / 85
p0 1.348e+05 ± 0.2902
136.5
136
135.5
135
134.5
pull
Entries 86
Mean 958.9
Std Dev 0
800
600
400
200
0
−200
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

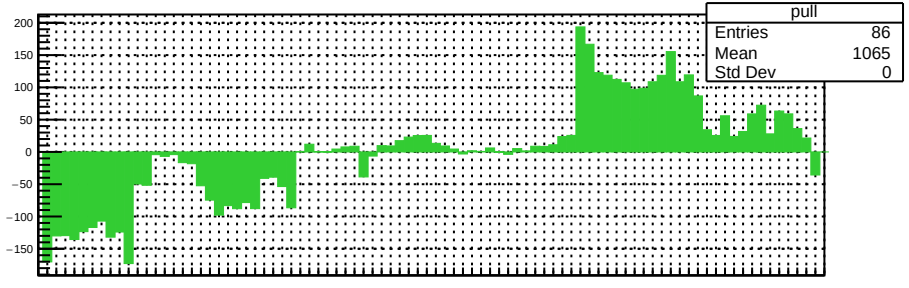

yield_bpm0r05WS_rms vs run
χ² / ndf 1293 / 85
p0 266.5 ± 0.2052
300
290
280
270
260
250

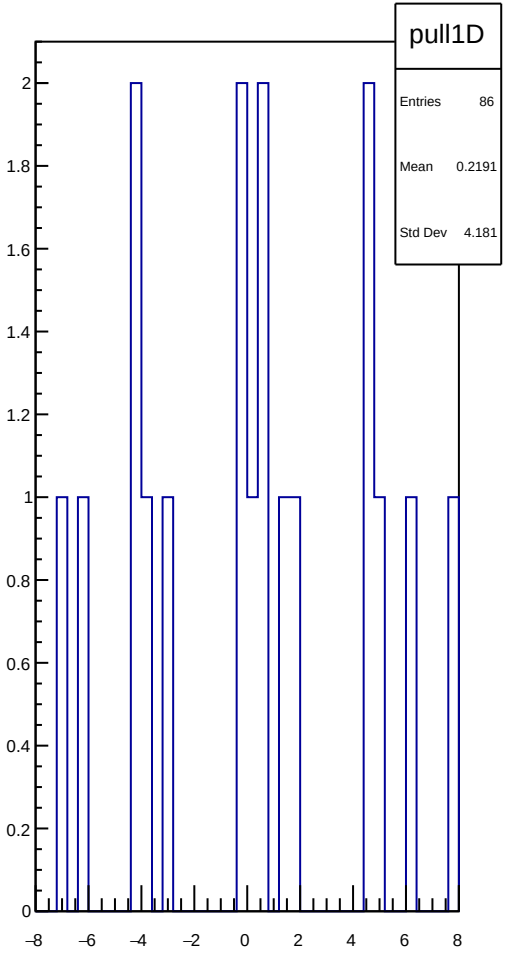

yield_bpm0i02WS_mean vs run
×10^3
138.8
138.7
138.6
138.5
138.4
138.3
χ² / ndf 1.131e+05 / 85
p0 1.385e+05 ± 0.2841
pull
Entries 86
Mean 797.1
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

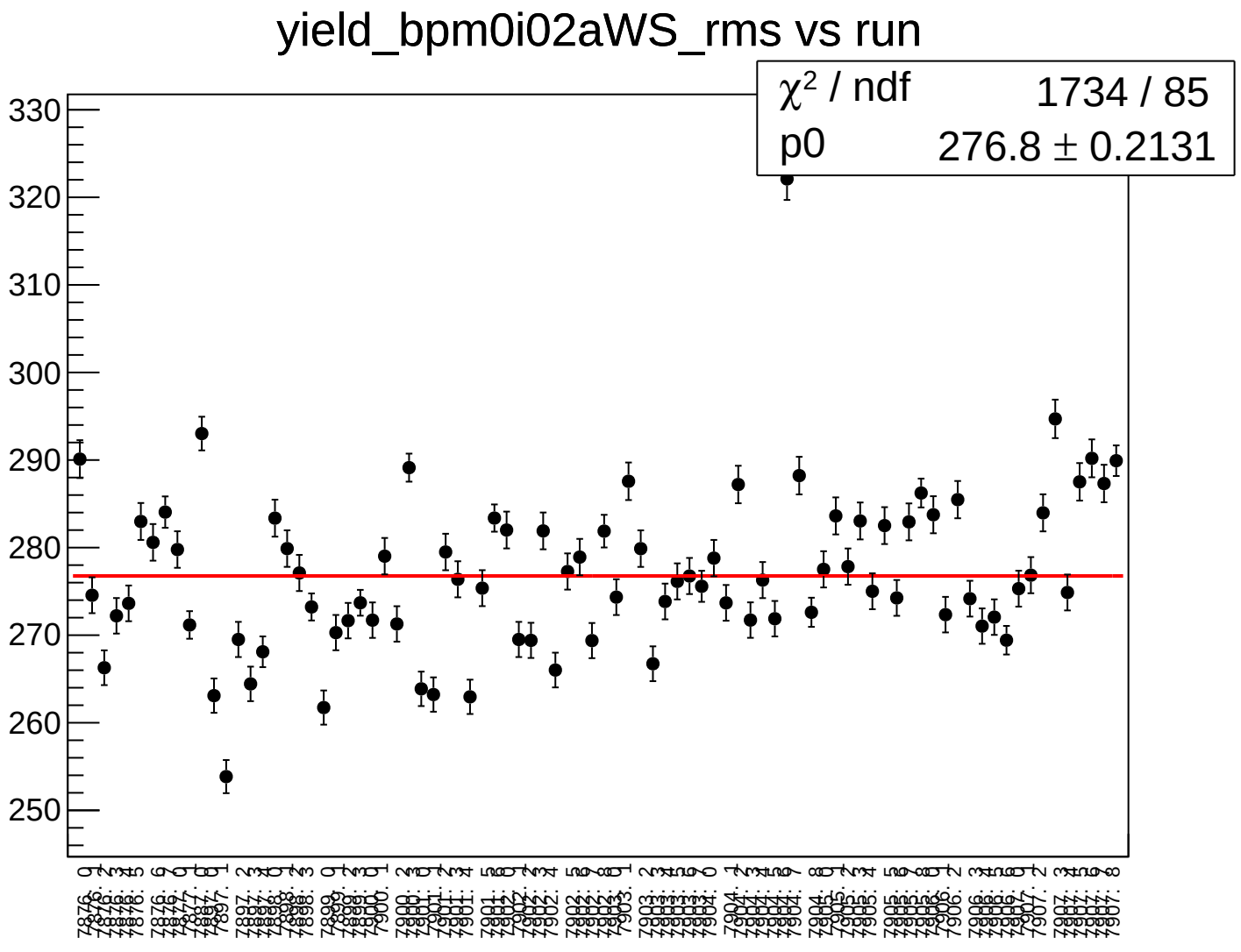

pull1D
Entries 86
Mean 0.6448
Std Dev 3.448
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

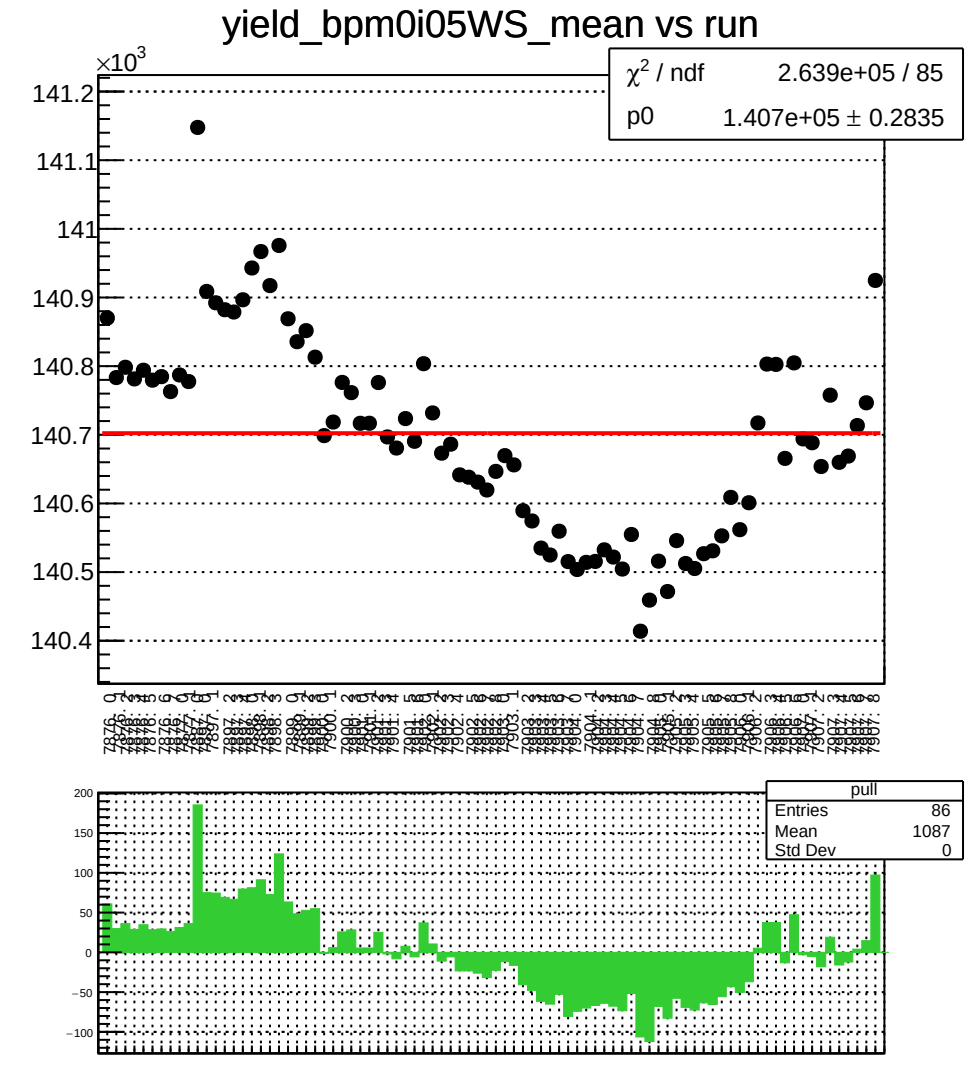

yield_bpm0i02WS_rms vs run
χ² / ndf 1154 / 85
p0 260.9 ± 0.2009
290
280
270
260
250
240

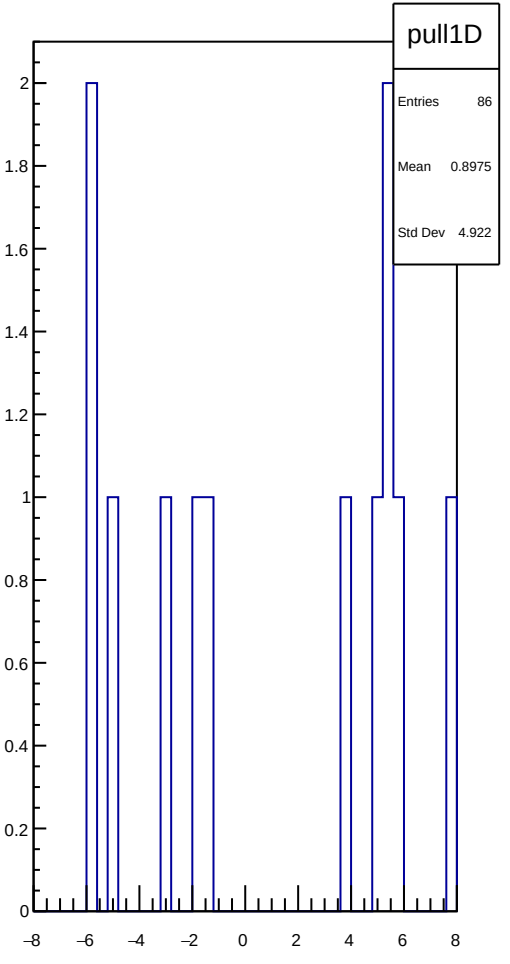

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 5.037e+05 / 85
p0 1.416e+05 ± 0.3014
142.2
142
141.8
141.6
141.4
141.2
141

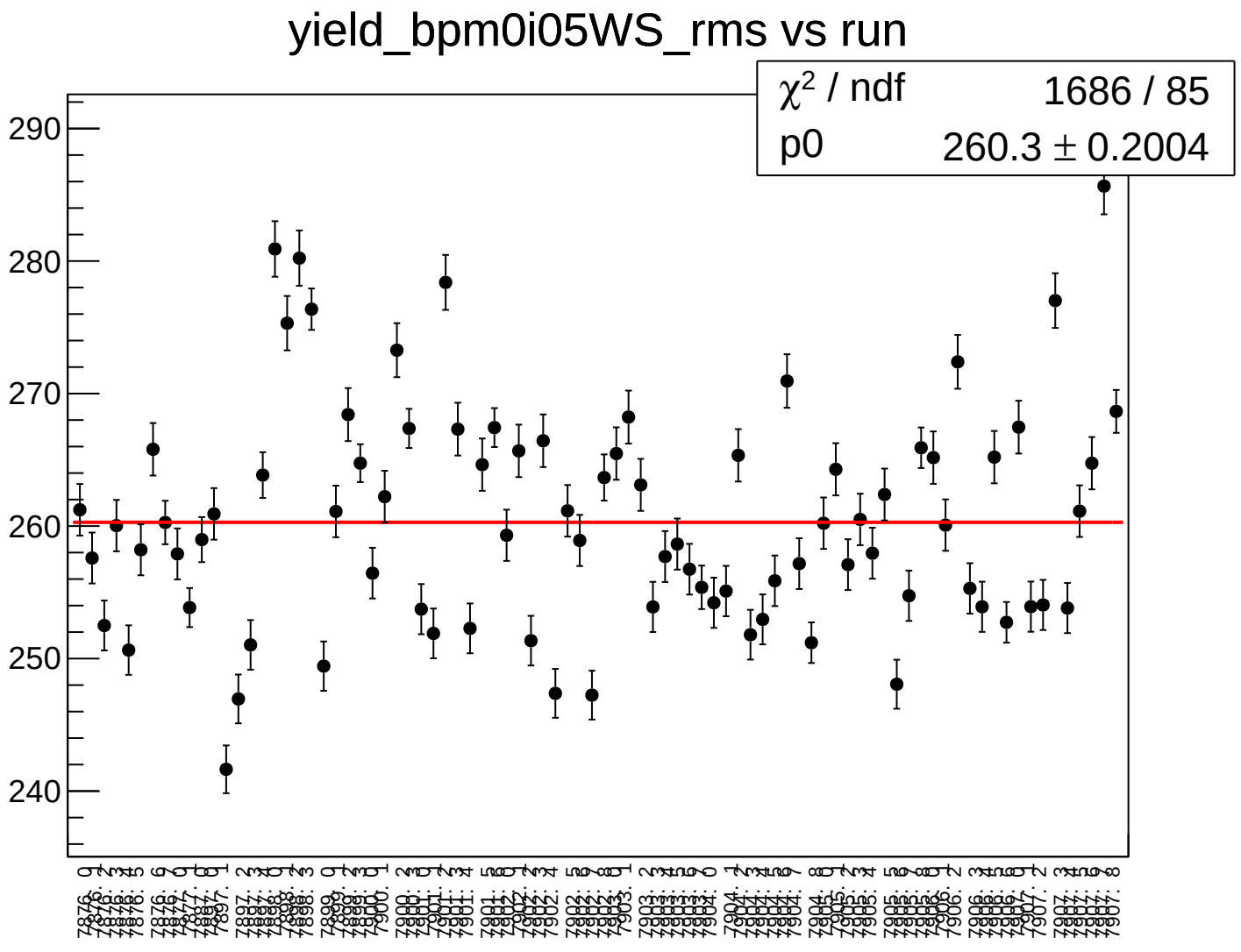

pull
Entries 86
Mean 1065
Std Dev 0
200
150
100
50
0
−50
−100
−150

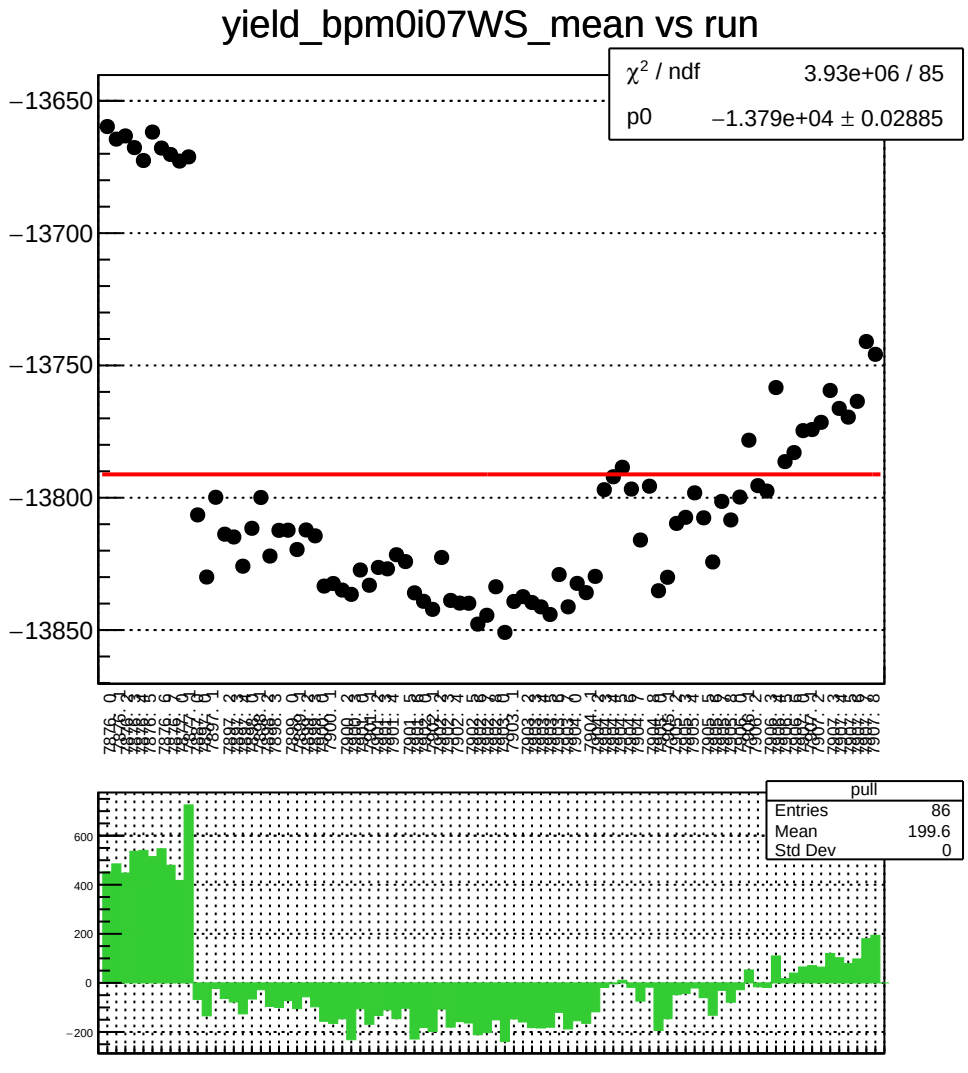

pull1D
Entries 86
Mean 0.2191
Std Dev 4.181
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

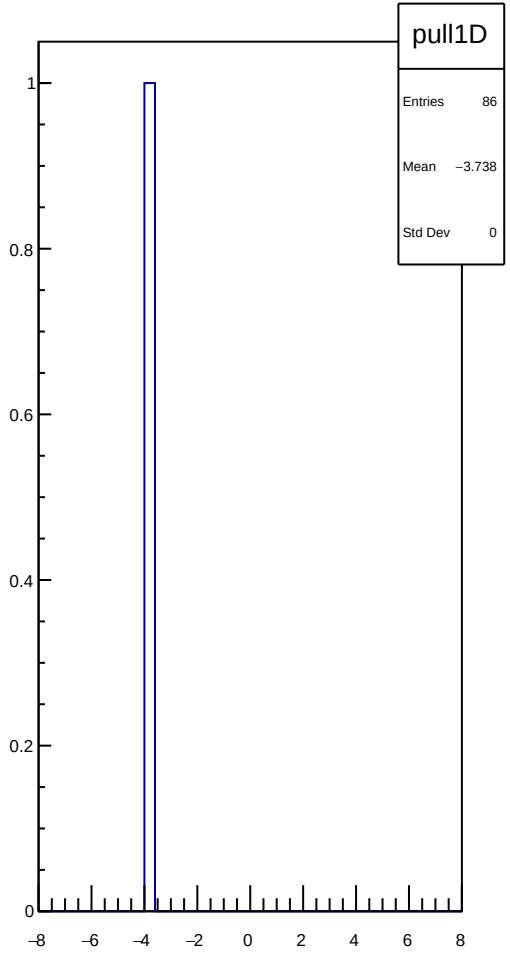

yield_bpm0i02aWS_rms vs run
χ² / ndf 1734 / 85
p0 276.8 ± 0.2131
330
320
310
300
290
280
270
260
250

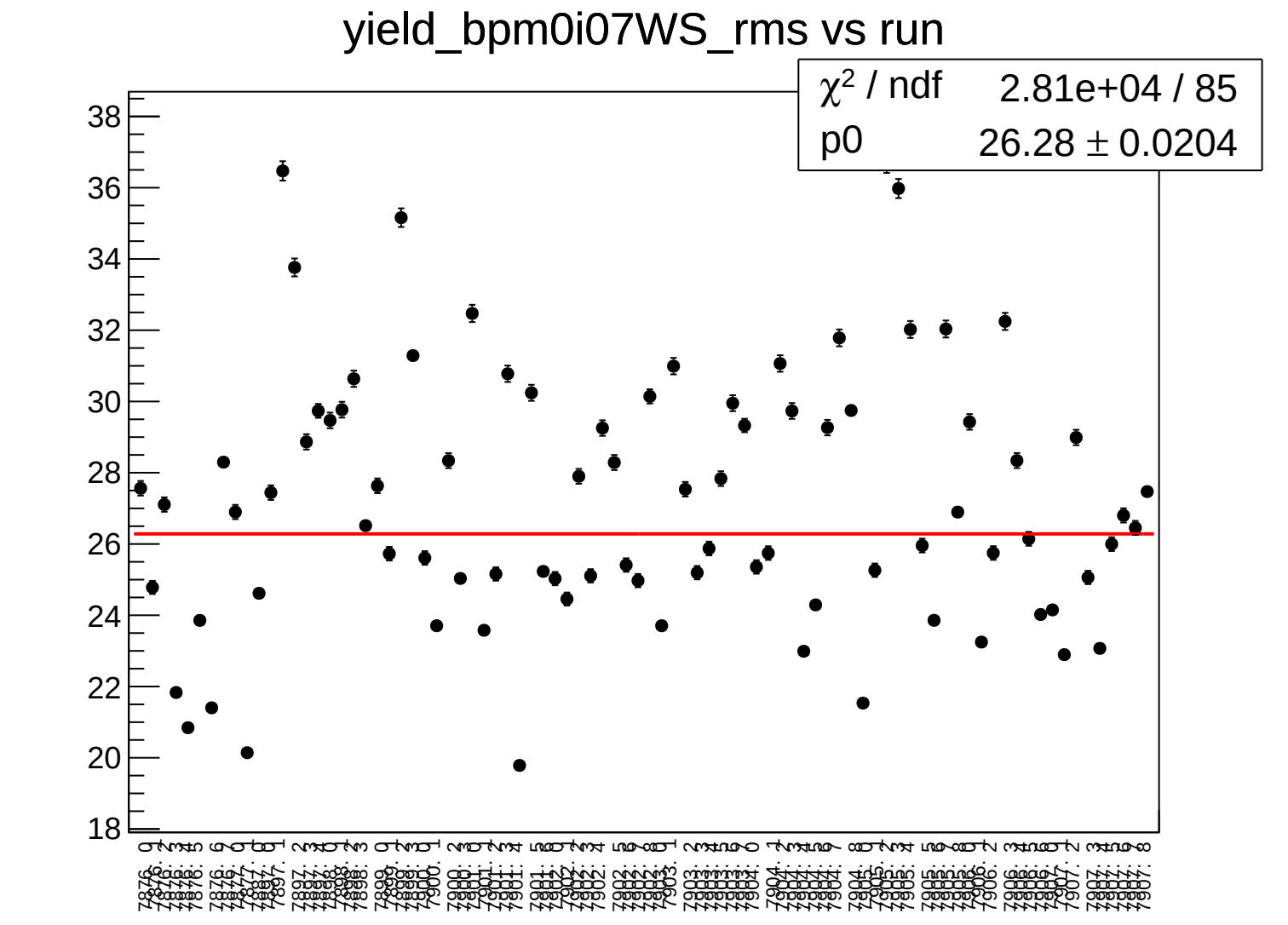

yield_bpm0i05WS_mean vs run
χ² / ndf 2.639e+05 / 85
p0 1.407e+05 ± 0.2835
×10³
141.2
141.1
141
140.9
140.8
140.7
140.6
140.5
140.4
pull
Entries 86
Mean 1087
Std Dev 0
200
150
100
50
0
−50
−100

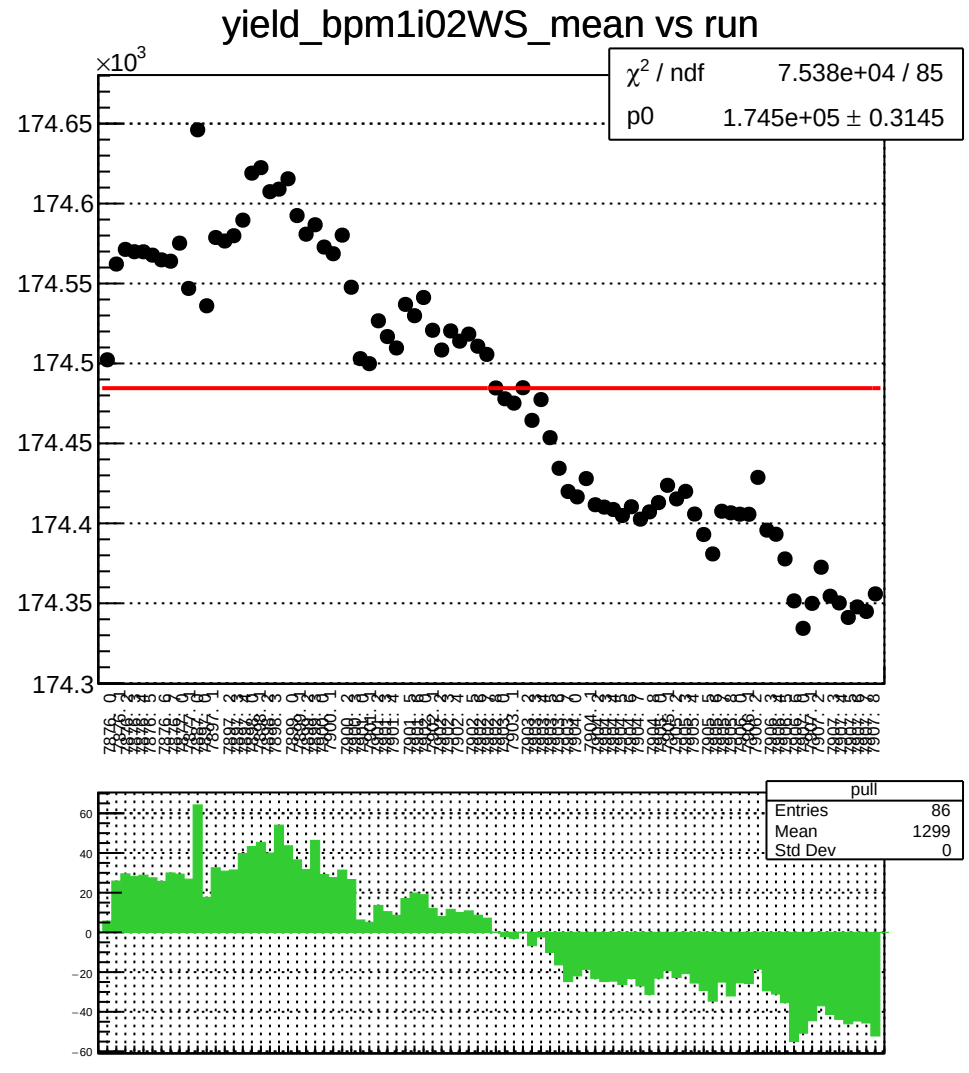

pull1D
Entries 86
Mean 0.8975
Std Dev 4.922
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

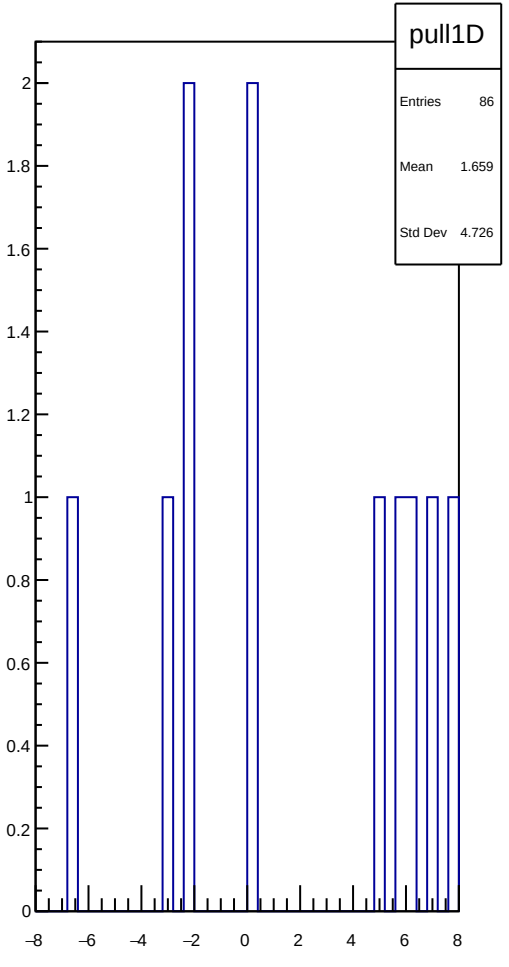

yield_bpm0i05WS_rms vs run
χ² / ndf 1686 / 85
p0 260.3 ± 0.2004
290
280
270
260
250
240

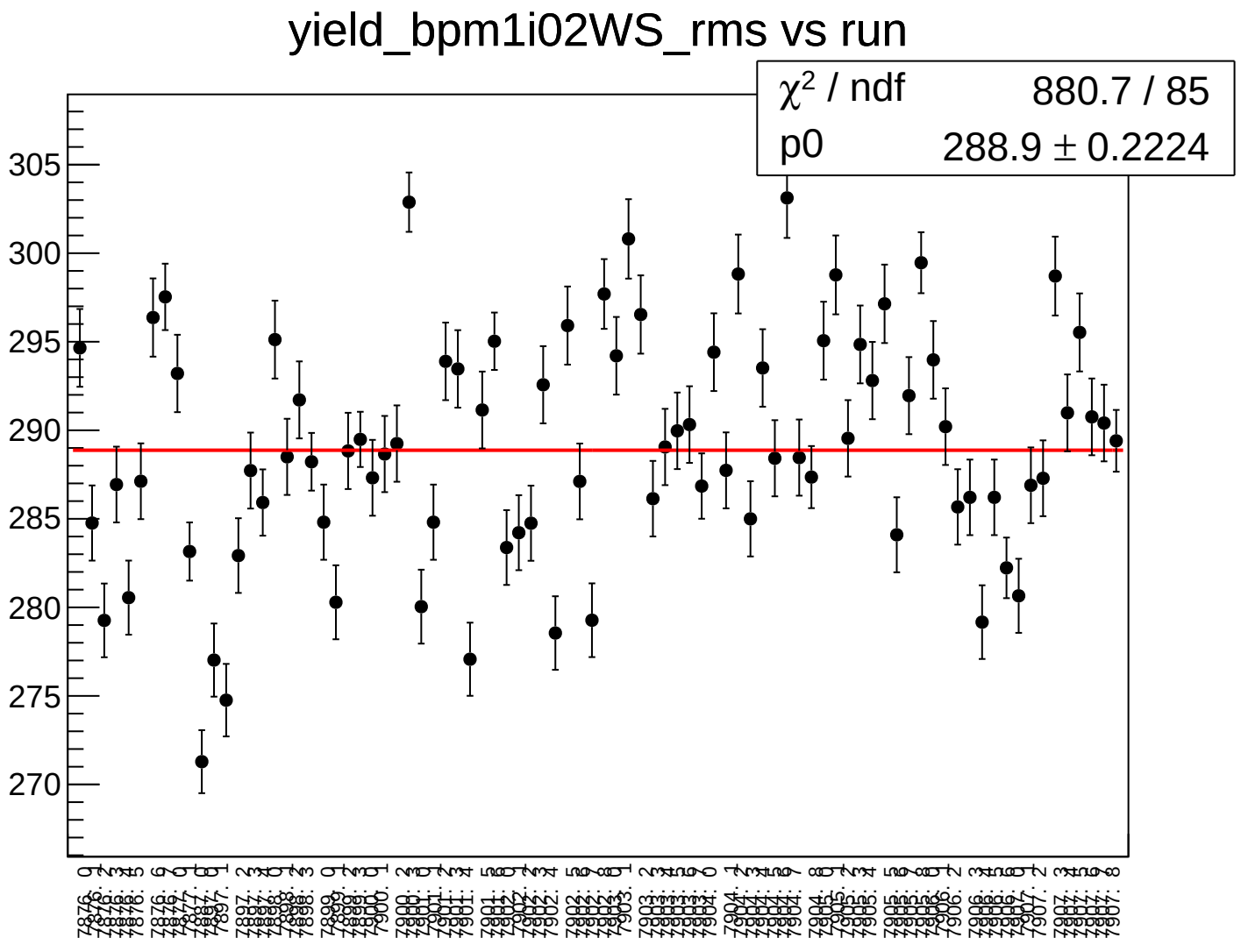

yield_bpm0i07WS_mean vs run
χ² / ndf 3.93e+06 / 85
p0 −1.379e+04 ± 0.02885
−13650
−13700
−13750
−13800
−13850
pull
Entries 86
Mean 199.6
Std Dev 0
600
400
200
0
−200

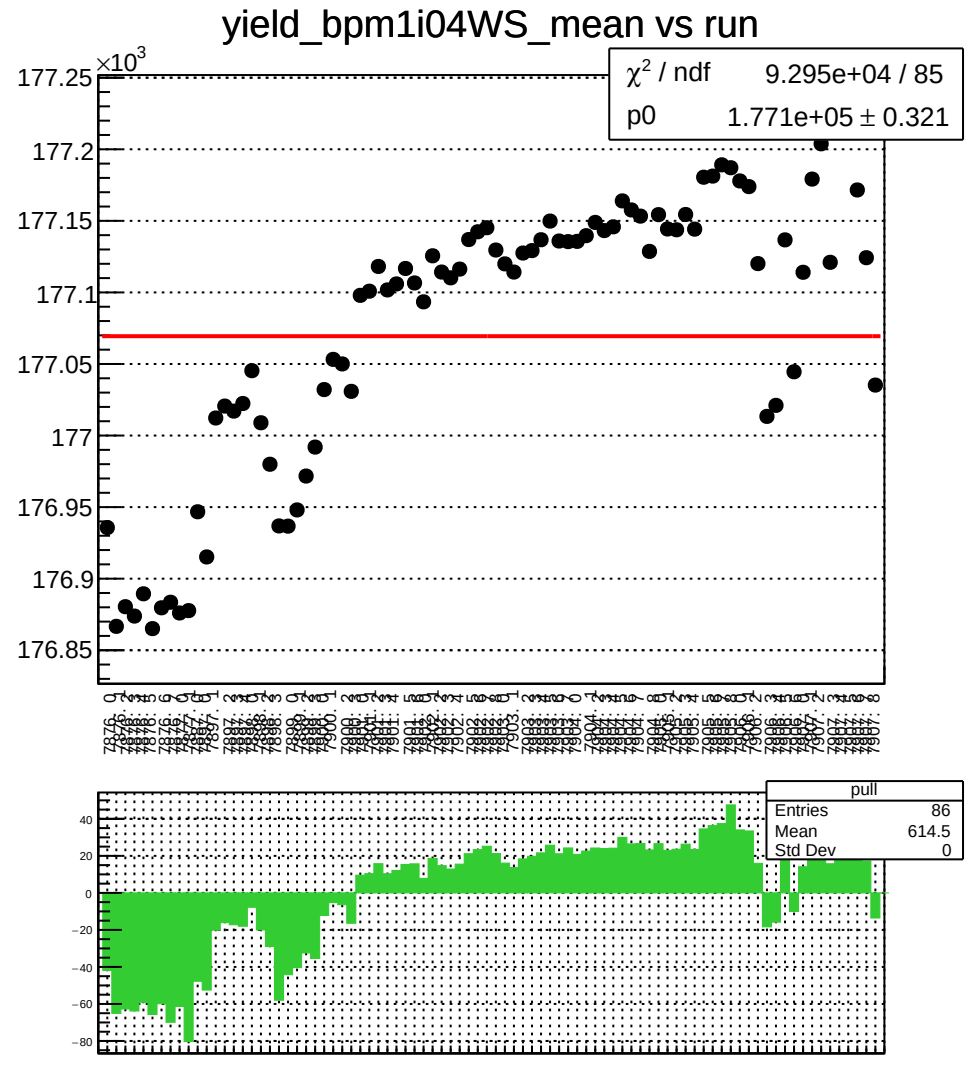

pull1D
Entries 86
Mean −3.738
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

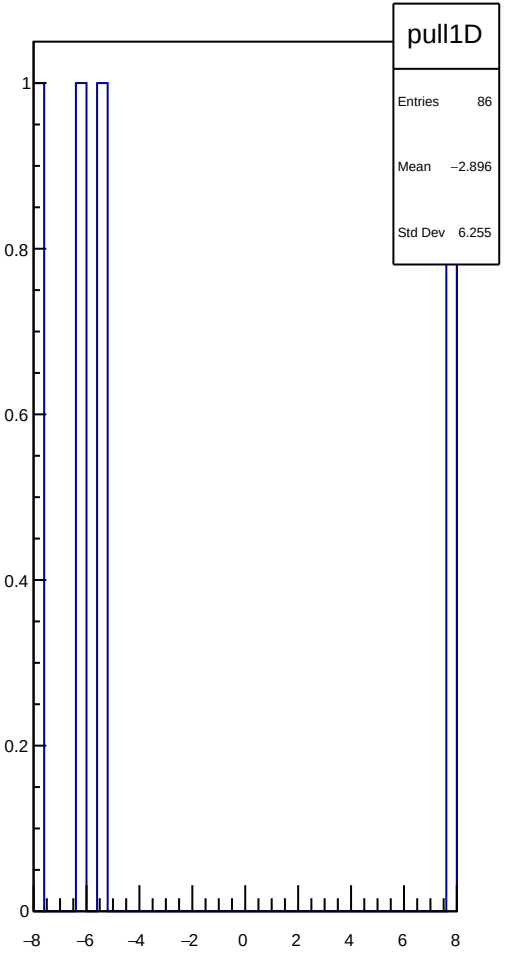

yield_bpm0i07WS_rms vs run
χ² / ndf 2.81e+04 / 85
p0 26.28 ± 0.0204
38
36
34
32
30
28
26
24
22
20
18

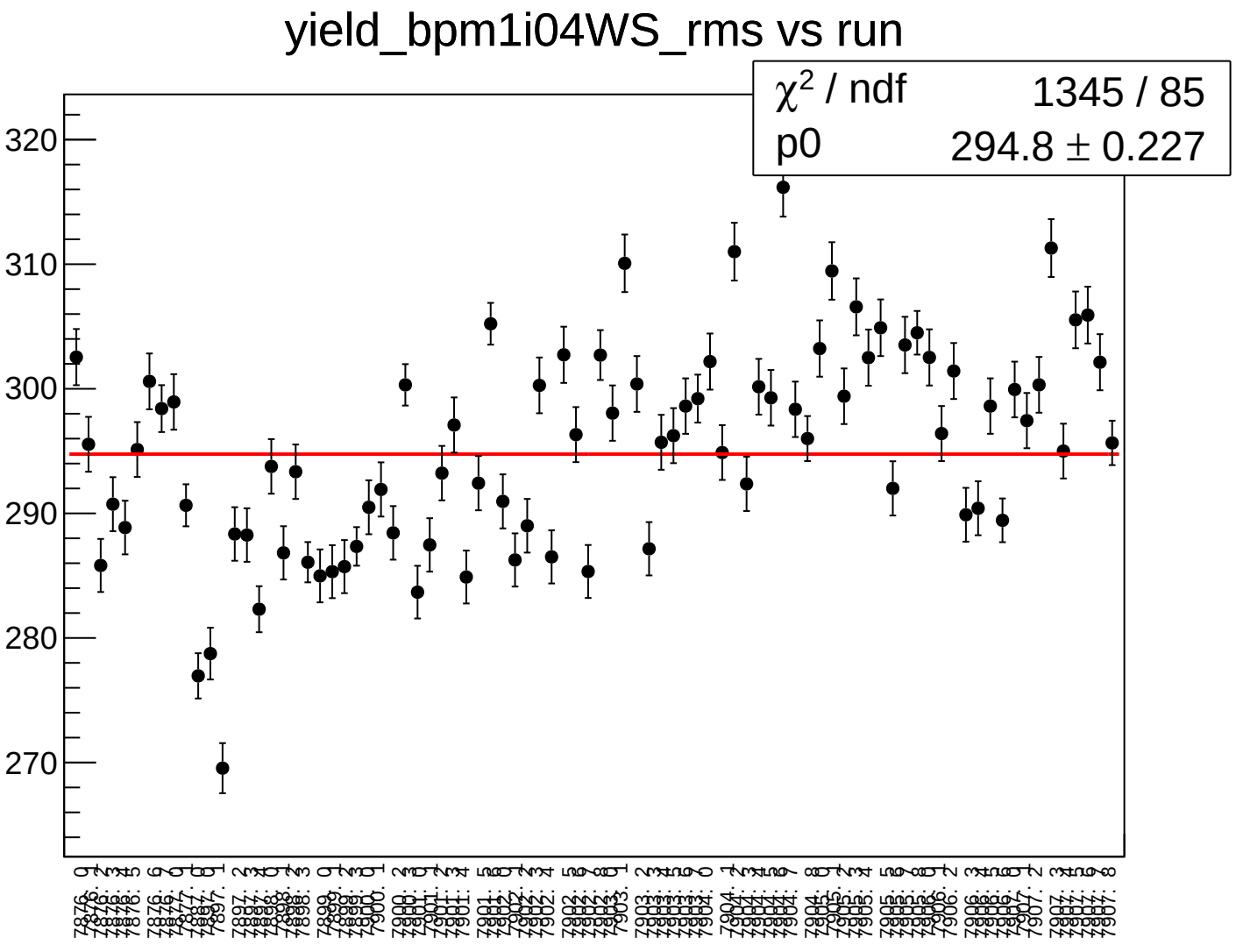

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 7.538e+04 / 85
p0 1.745e+05 ± 0.3145
174.65
174.6
174.55
174.5
174.45
174.4
174.35
174.3
pull
Entries 86
Mean 1299
Std Dev 0
60
40
20
0
−20
−40
−60

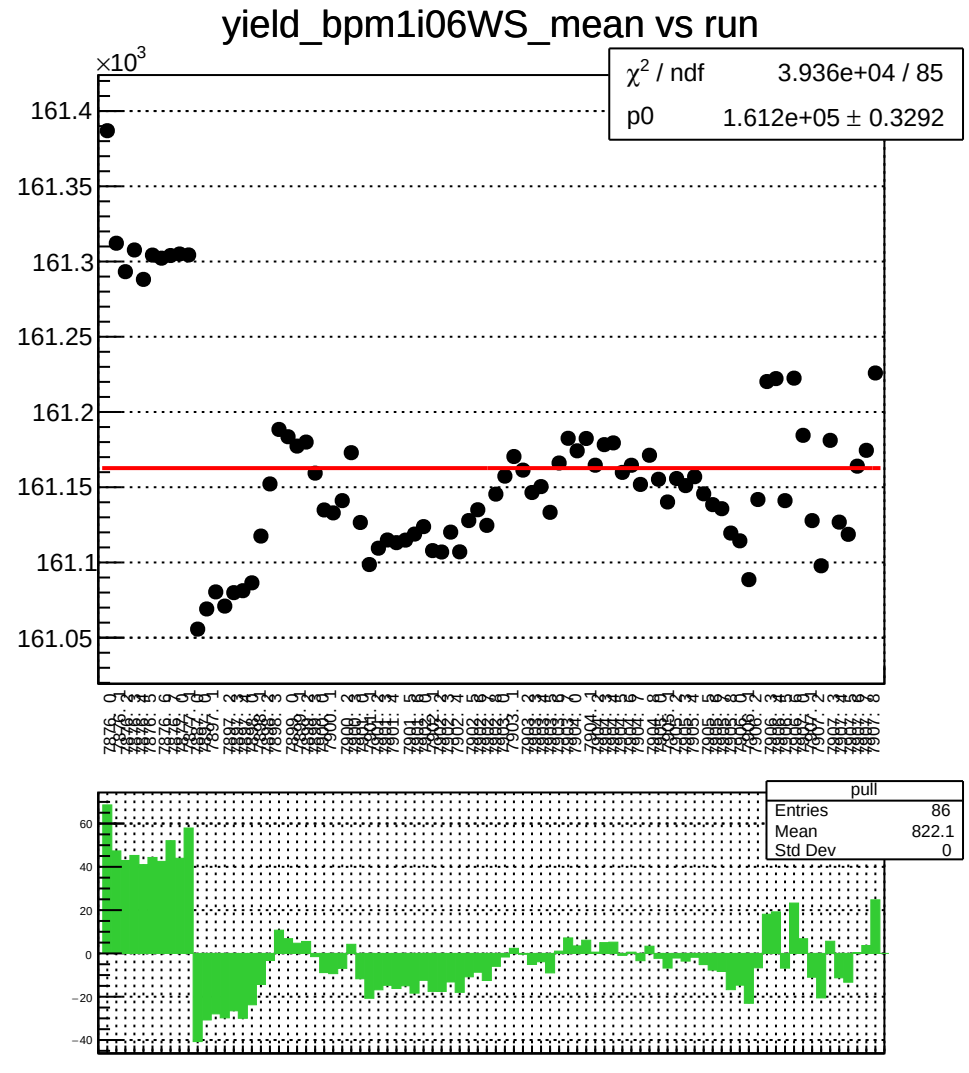

pull1D
Entries 86
Mean 1.659
Std Dev 4.726
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

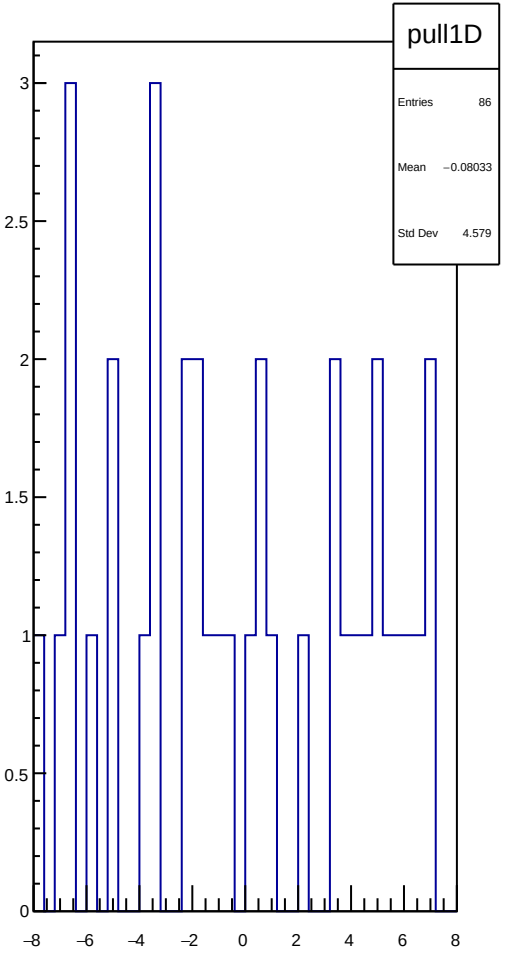

yield_bpm1i02WS_rms vs run
χ² / ndf 880.7 / 85
p0 288.9 ± 0.2224
305
300
295
290
285
280
275
270

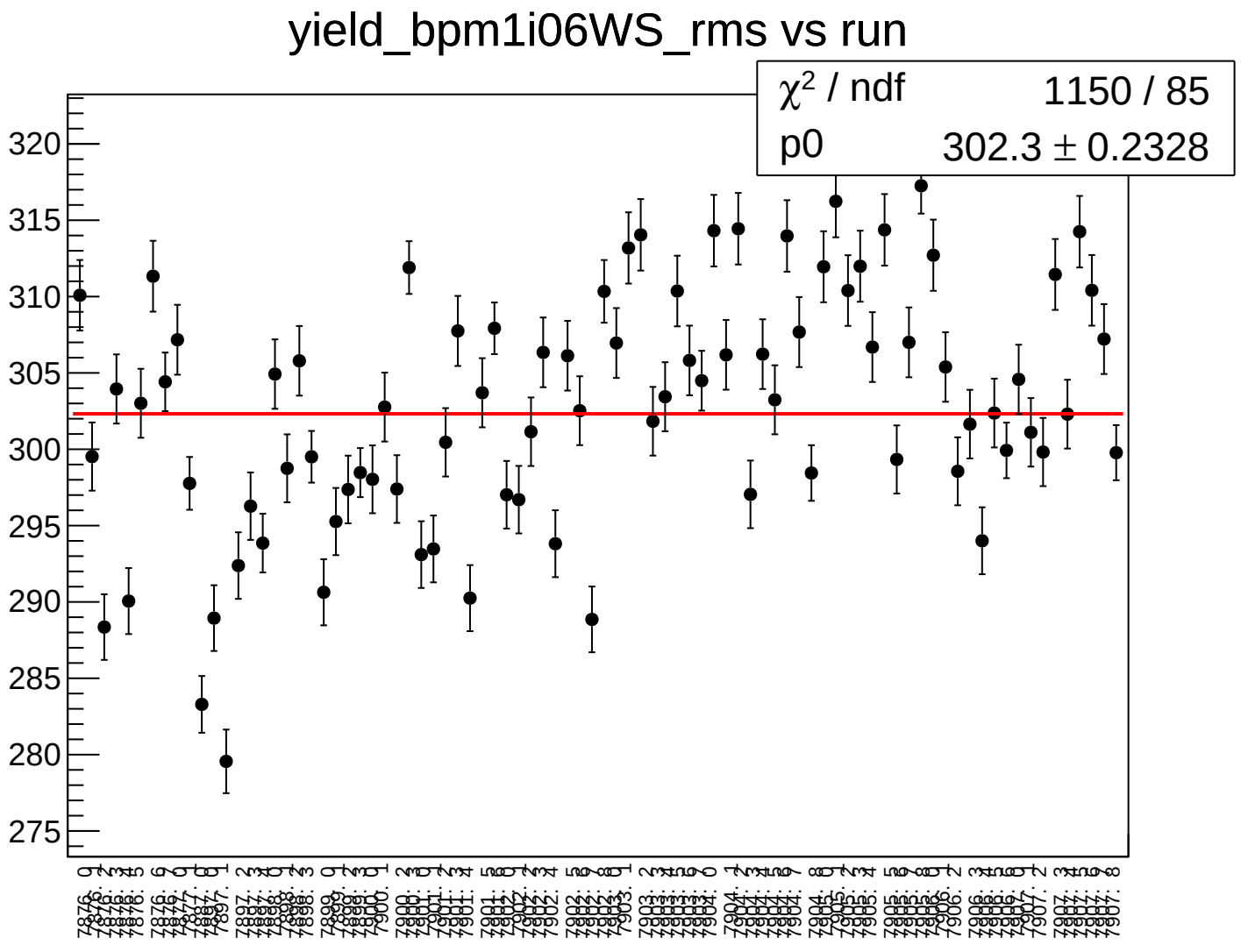

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 9.295e+04 / 85
p0 1.771e+05 ± 0.321
177.25
177.2
177.15
177.1
177.05
177
176.95
176.9
176.85
pull
Entries 86
Mean 614.5
Std Dev 0
40
20
0
−20
−40
−60
−80

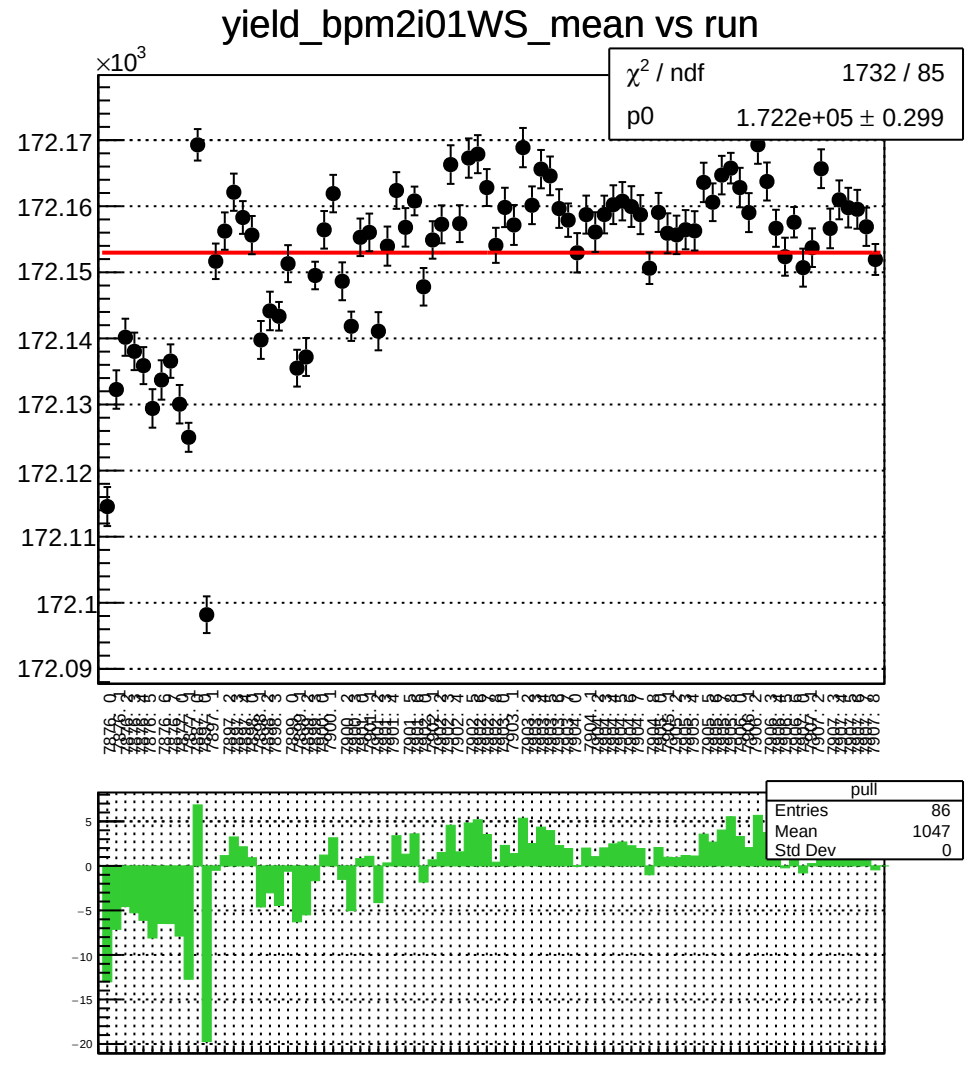

pull1D
Entries 86
Mean −2.896
Std Dev 6.255
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

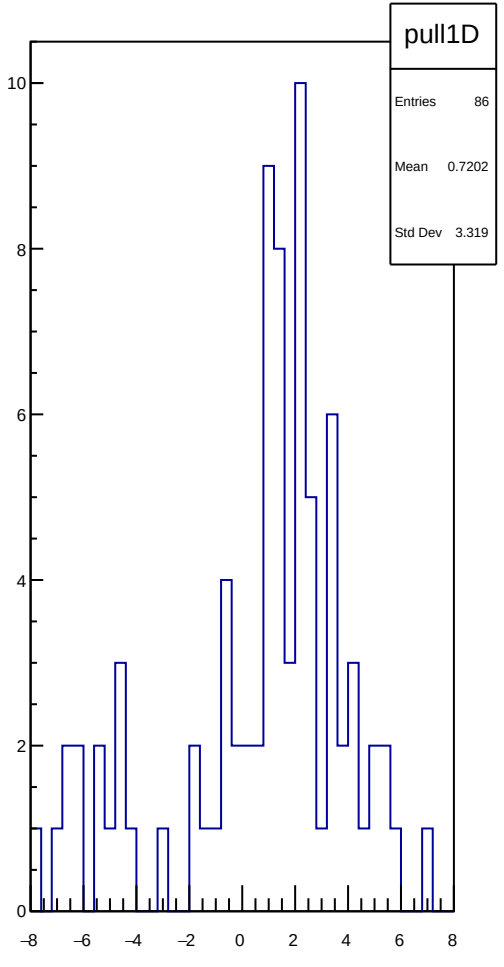

yield_bpm1i04WS_rms vs run
χ² / ndf 1345 / 85
p0 294.8 ± 0.227
320
310
300
290
280
270

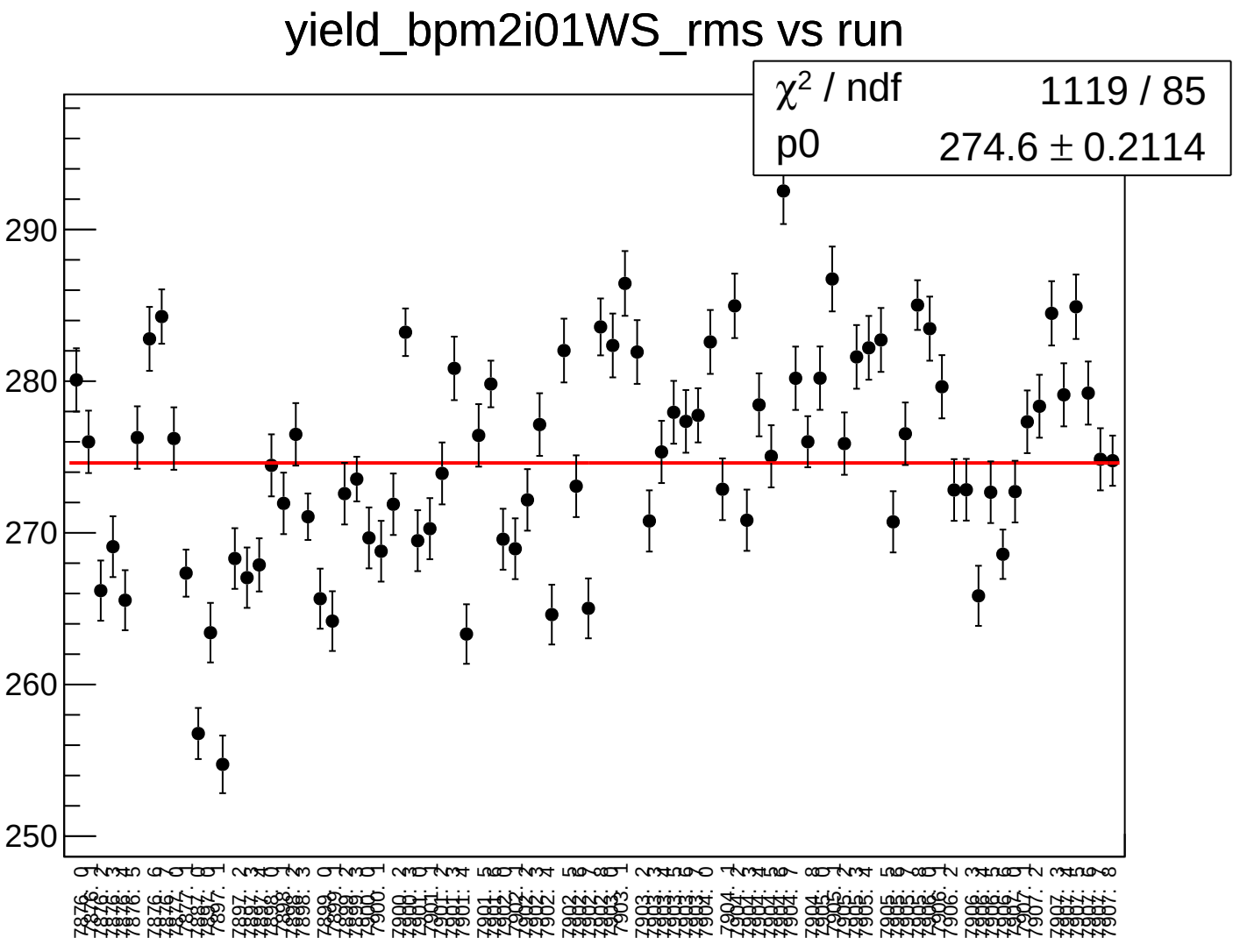

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 3.936e+04 / 85
p0 1.612e+05 ± 0.3292
161.4
161.35
161.3
161.25
161.2
161.15
161.1
161.05
pull
Entries 86
Mean 822.1
Std Dev 0
60
40
20
0
−20
−40

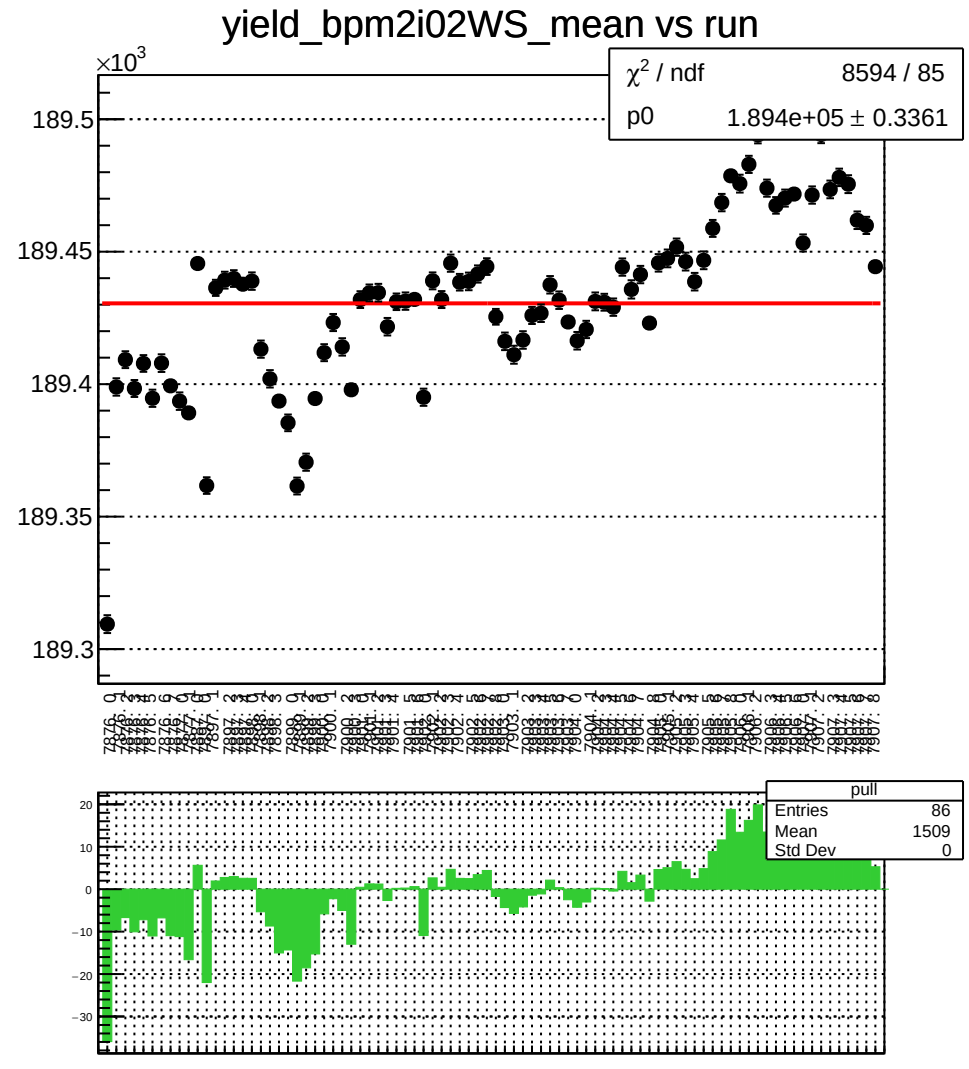

pull1D
Entries 86
Mean −0.08033
Std Dev 4.579
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

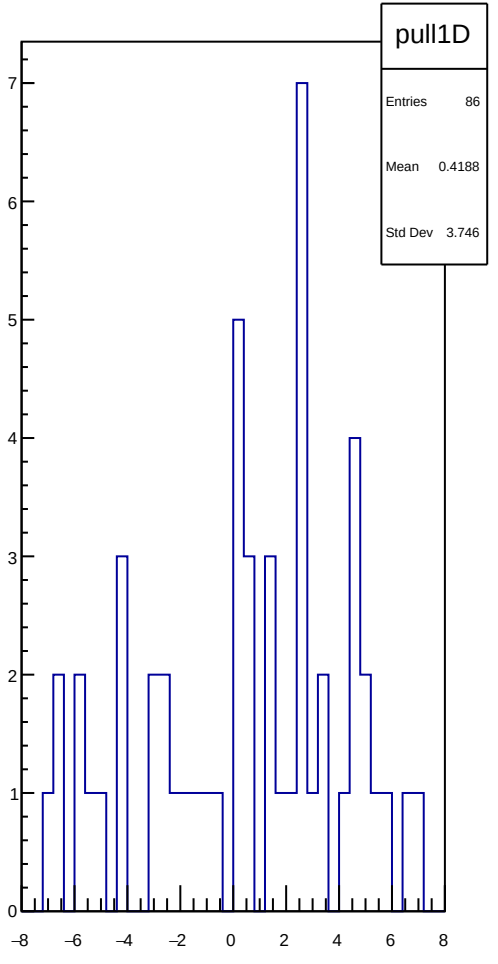

yield_bpm1i06WS_rms vs run
χ² / ndf 1150 / 85
p0 302.3 ± 0.2328
320
315
310
305
300
295
290
285
280
275

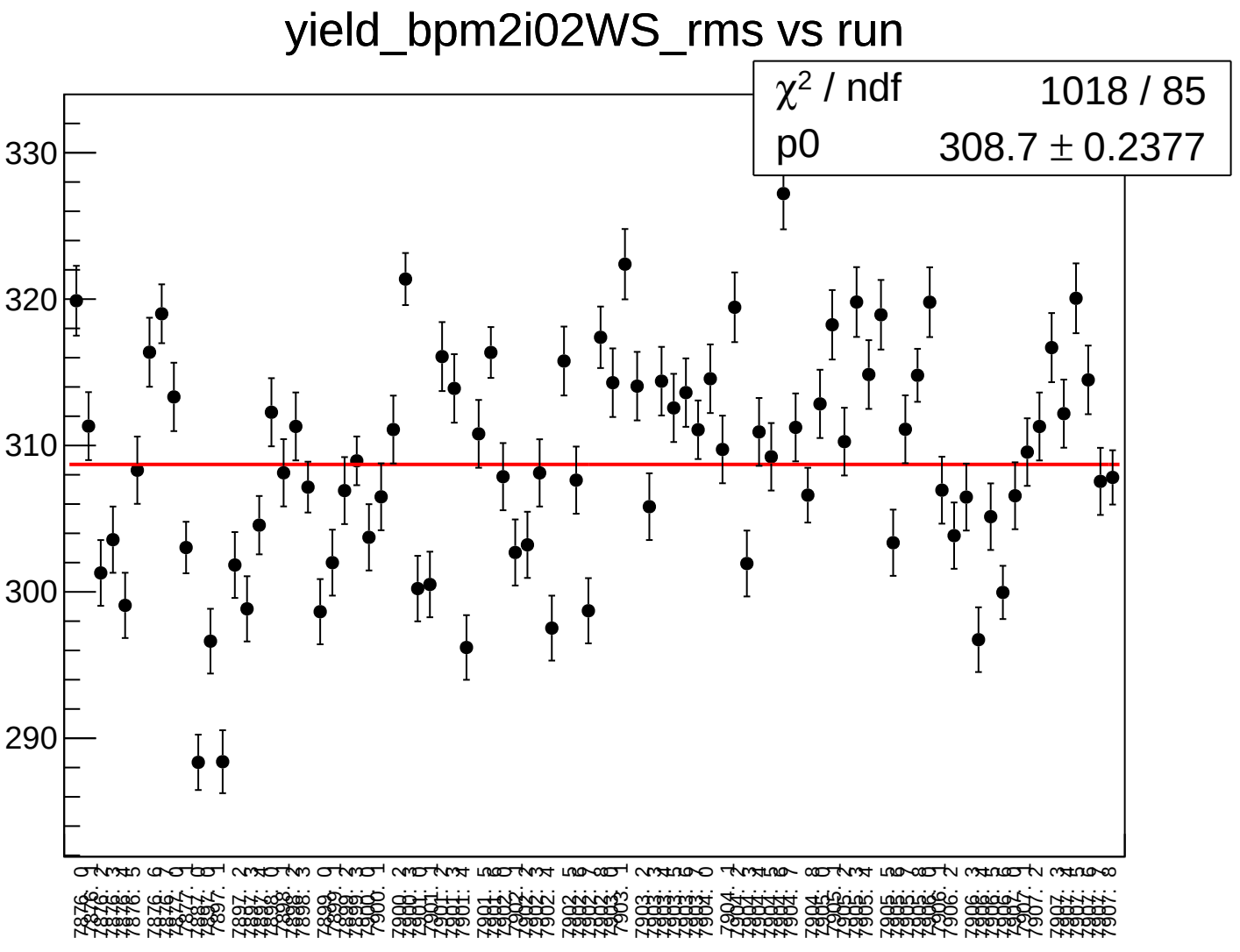

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1732 / 85
p0 1.722e+05 ± 0.299
172.17
172.16
172.15
172.14
172.13
172.12
172.11
172.1
172.09
pull
Entries 86
Mean 1047
Std Dev 0
5
0
−5
−10
−15
−20

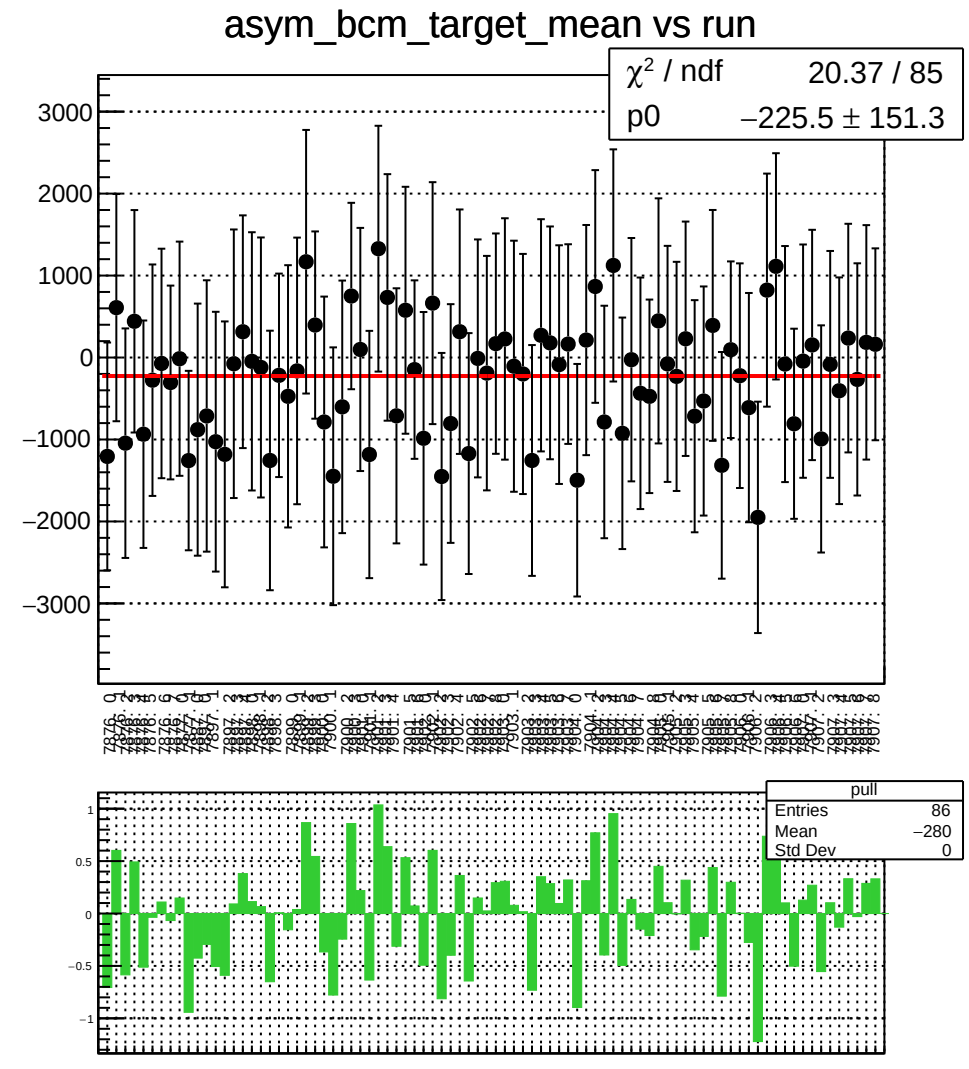

pull1D
Entries 86
Mean 0.7202
Std Dev 3.319
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

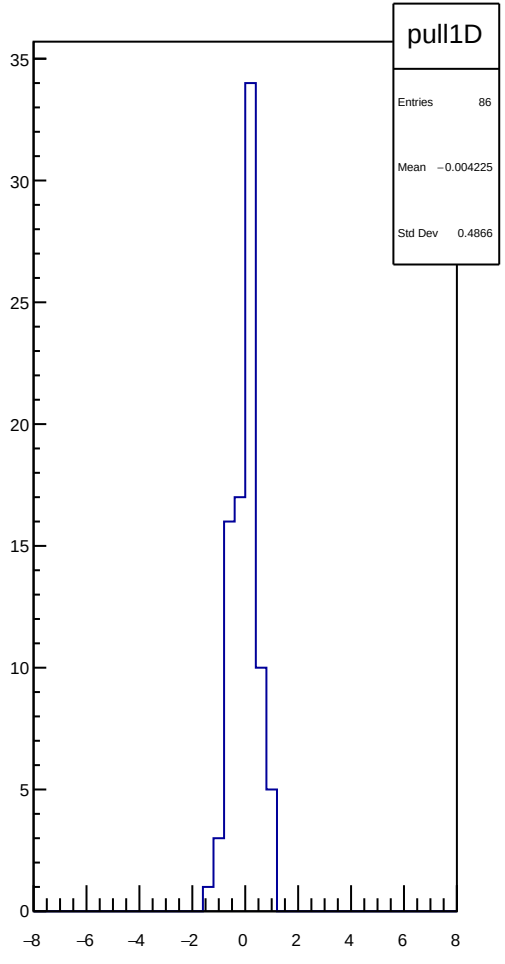

yield_bpm2i01WS_rms vs run
χ² / ndf 1119 / 85
p0 274.6 ± 0.2114
290
280
270
260
250

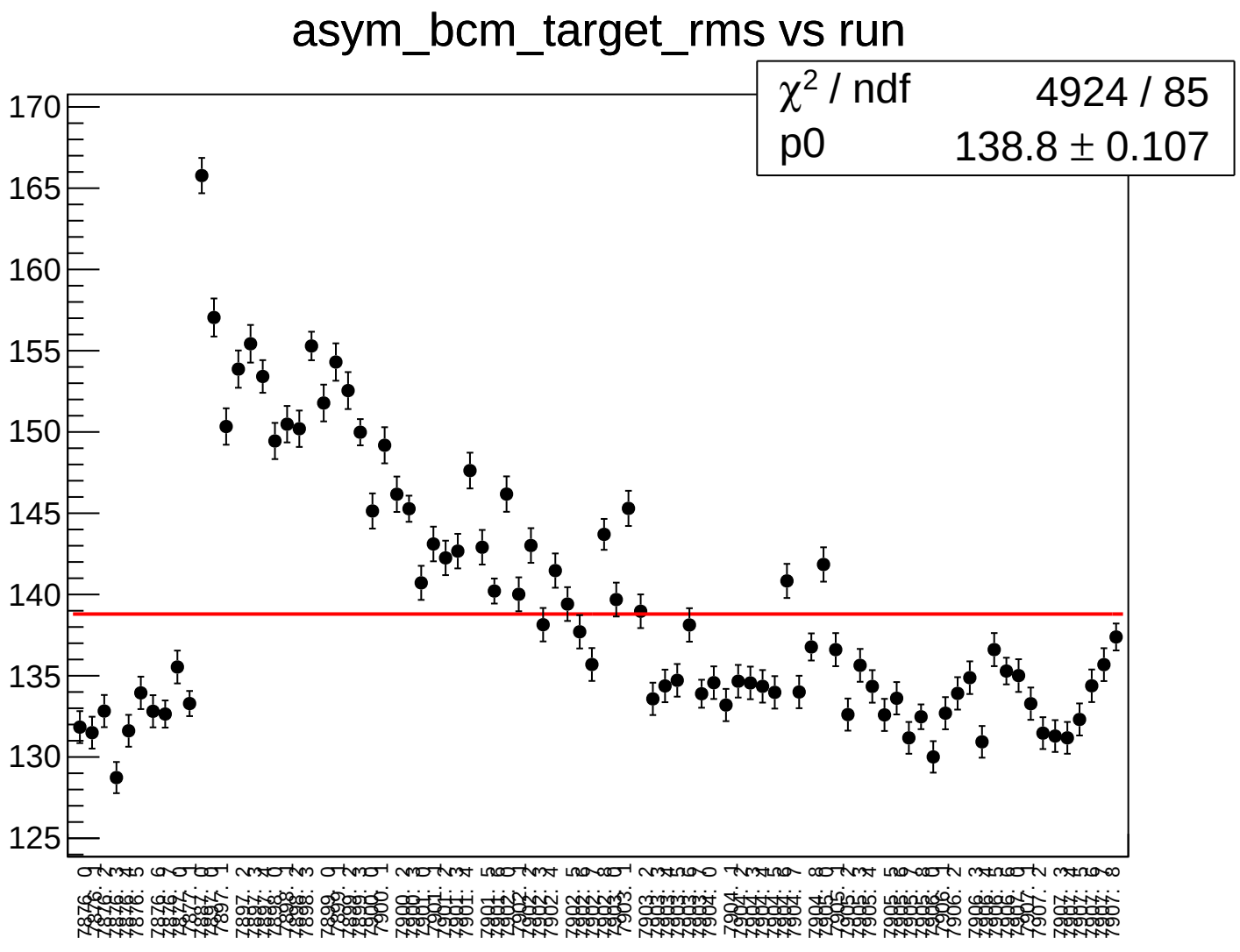

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 8594 / 85
p0 1.894e+05 ± 0.3361
189.5
189.45
189.4
189.35
189.3
pull
Entries 86
Mean 1509
Std Dev 0
20
10
0
−10
−20
−30

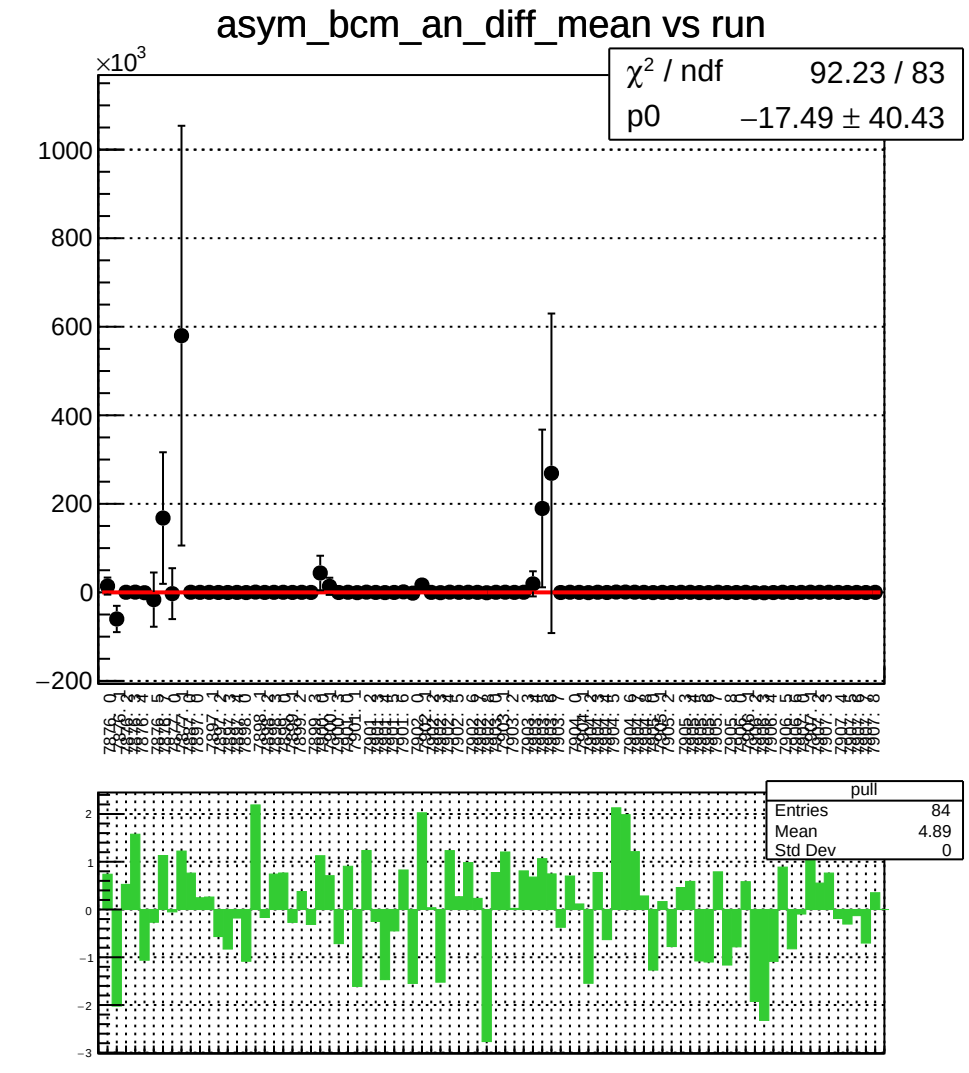

pull1D
Entries 86
Mean 0.4188
Std Dev 3.746
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

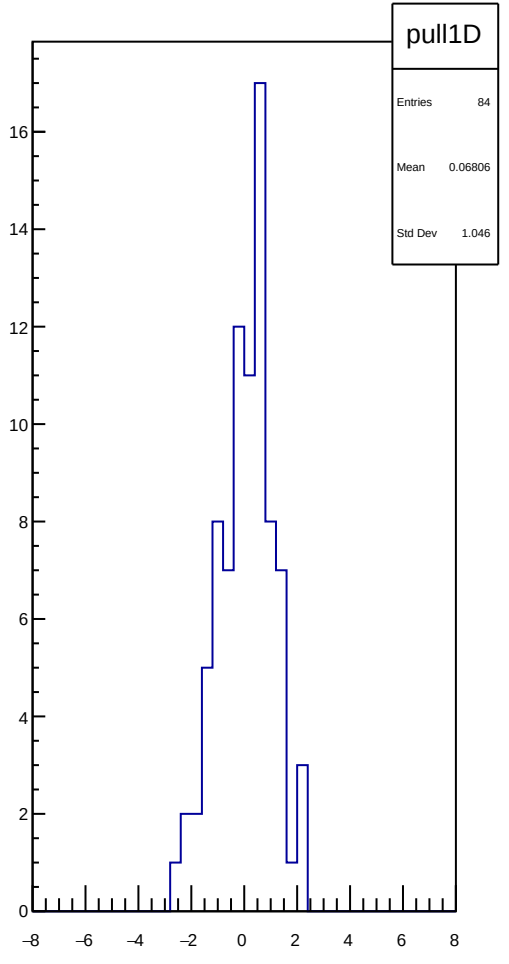

yield_bpm2i02WS_rms vs run
χ² / ndf 1018 / 85
p0 308.7 ± 0.2377
330
320
310
300
290

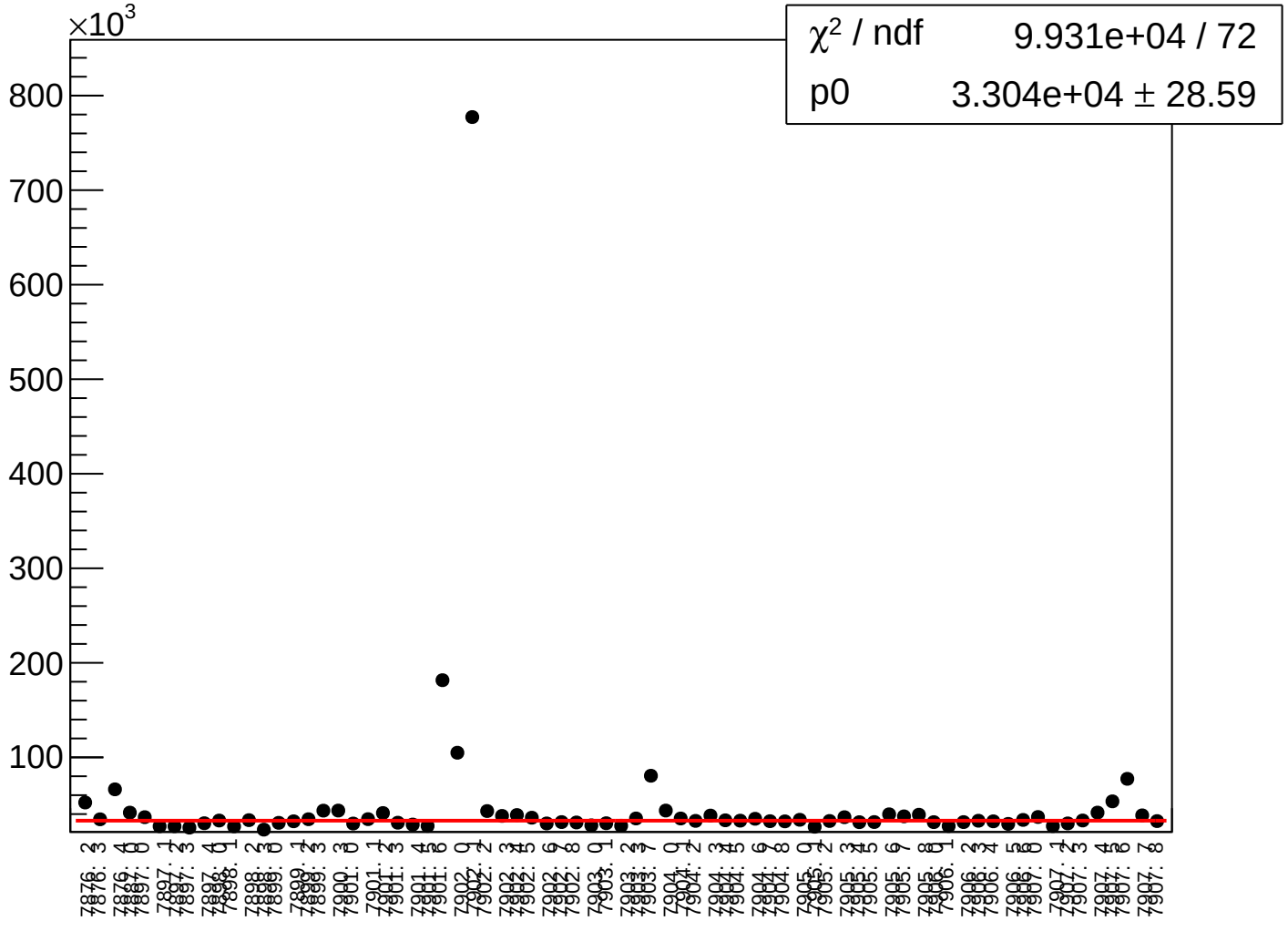

asym_bcm_target_mean vs run
χ² / ndf 20.37 / 85
p0 −225.5 ± 151.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −280
Std Dev 0
1
0.5
0
−0.5
−1

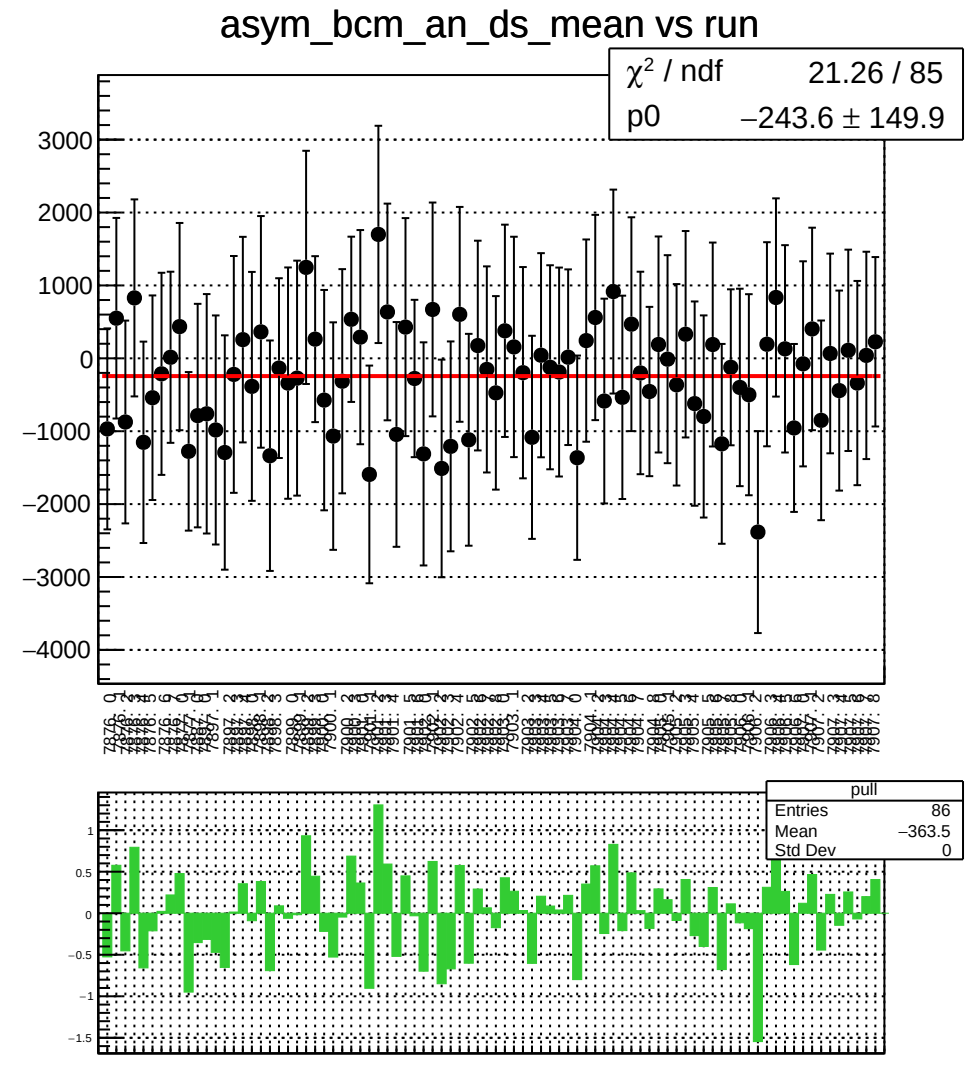

pull1D
Entries 86
Mean −0.004225
Std Dev 0.4866
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

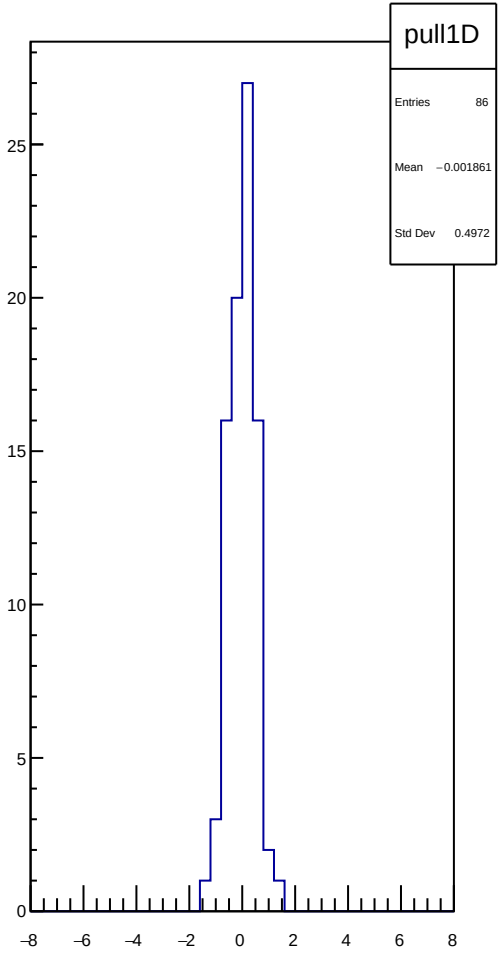

asym_bcm_target_rms vs run
χ² / ndf 4924 / 85
p0 138.8 ± 0.107
170
165
160
155
150
145
140
135
130
125

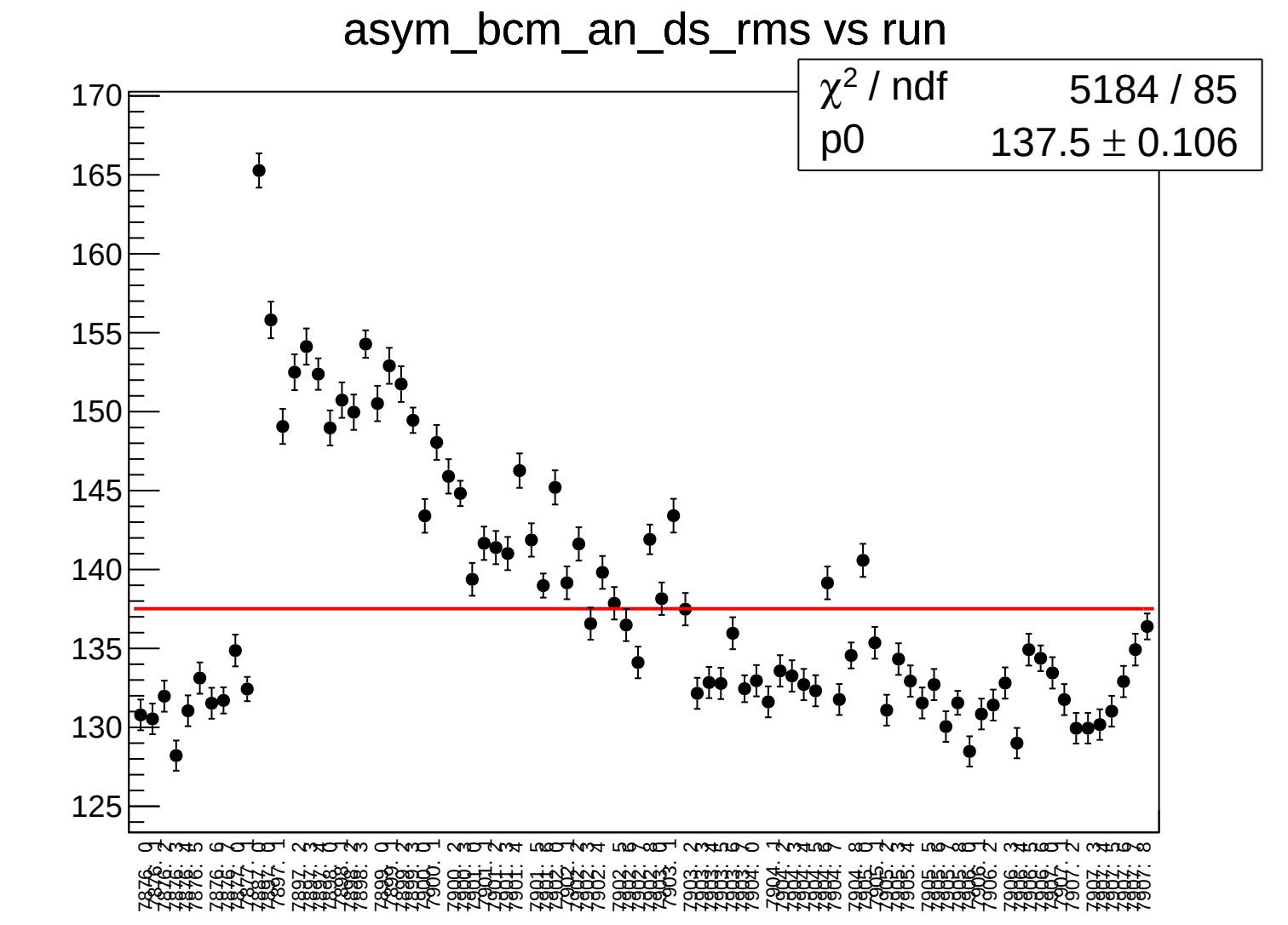

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 92.23 / 83
p0 −17.49 ± 40.43
1000
800
600
400
200
0
−200
pull
Entries 84
Mean 4.89
Std Dev 0
2
1
0
−1
−2
−3

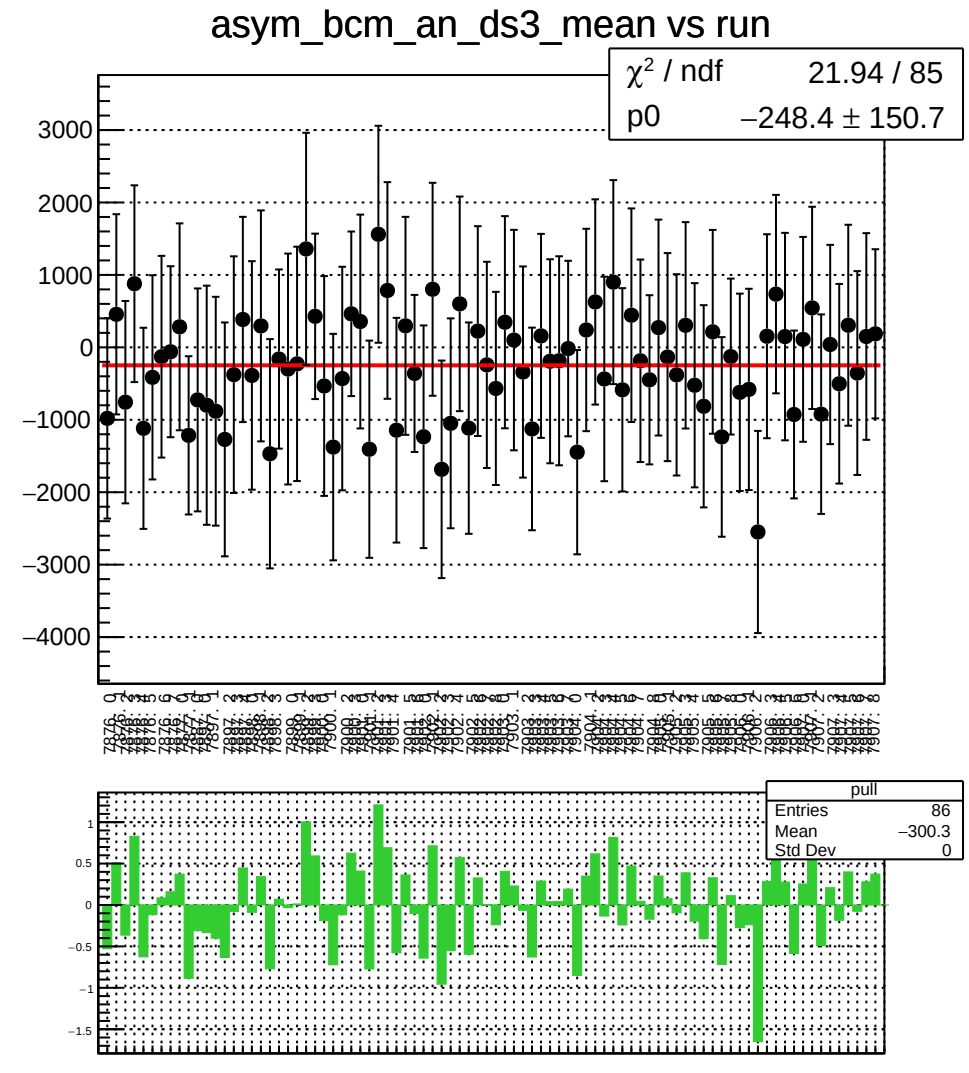

pull1D
Entries 84
Mean 0.06806
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

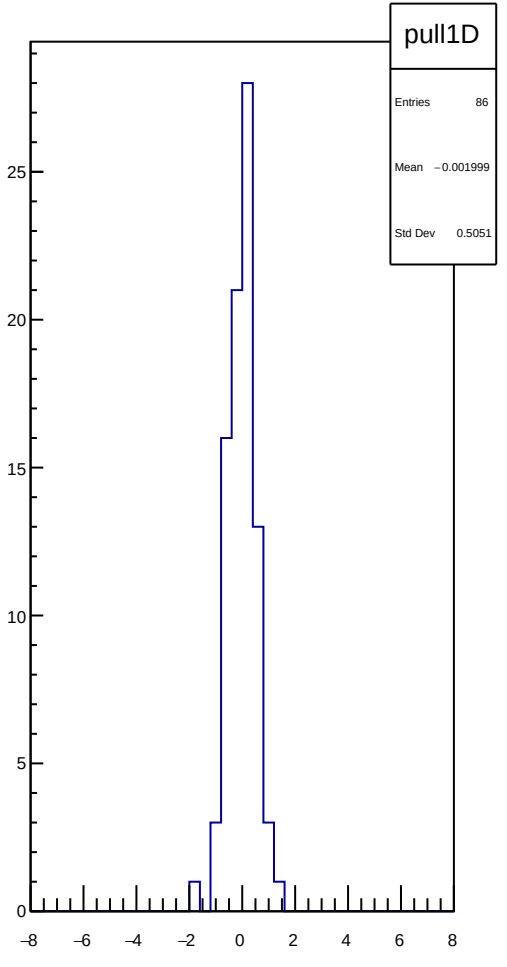

asym_bcm_an_diff_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 9.931e+04 / 72
p0 3.304e+04 ± 28.59

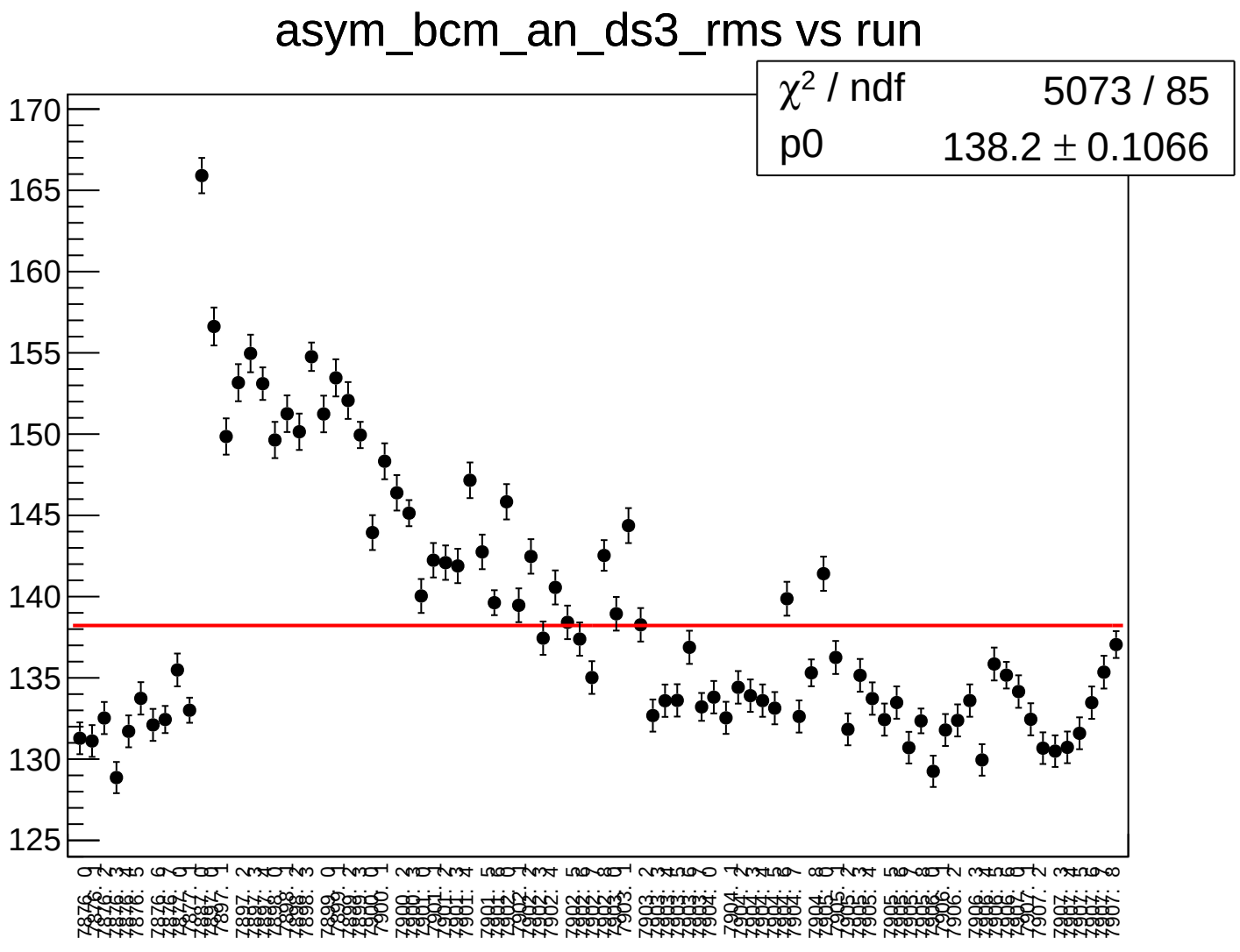

asym_bcm_an_ds_mean vs run
χ² / ndf 21.26 / 85
p0 −243.6 ± 149.9
pull
Entries 86
Mean −363.5
Std Dev 0

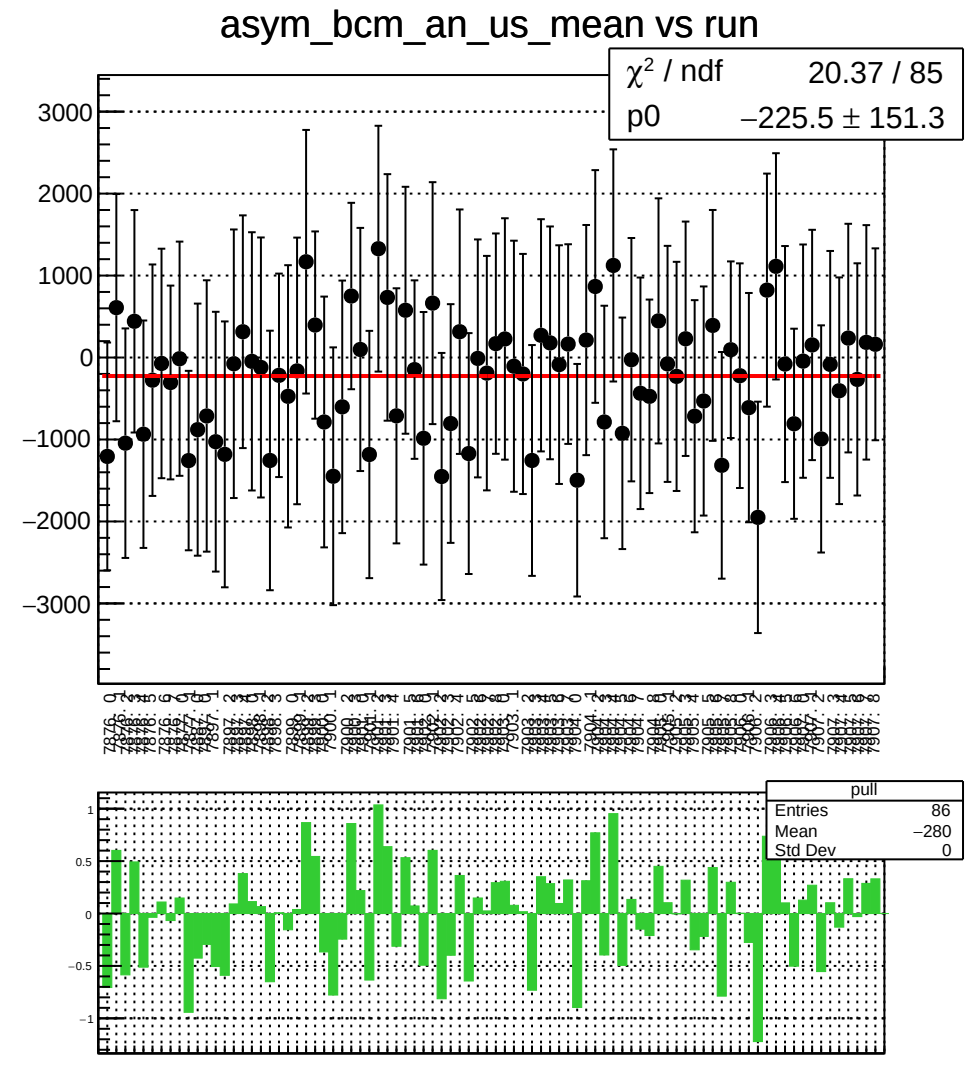

pull1D
Entries 86
Mean −0.001861
Std Dev 0.4972

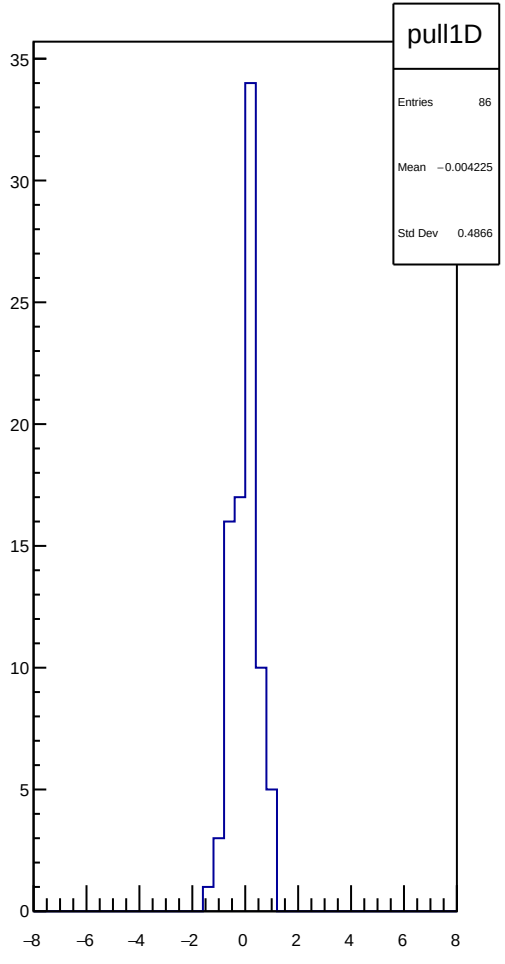

asym_bcm_an_ds_rms vs run
χ^2 / ndf 5184 / 85
p0 137.5 ± 0.106
170
165
160
155
150
145
140
135
130
125

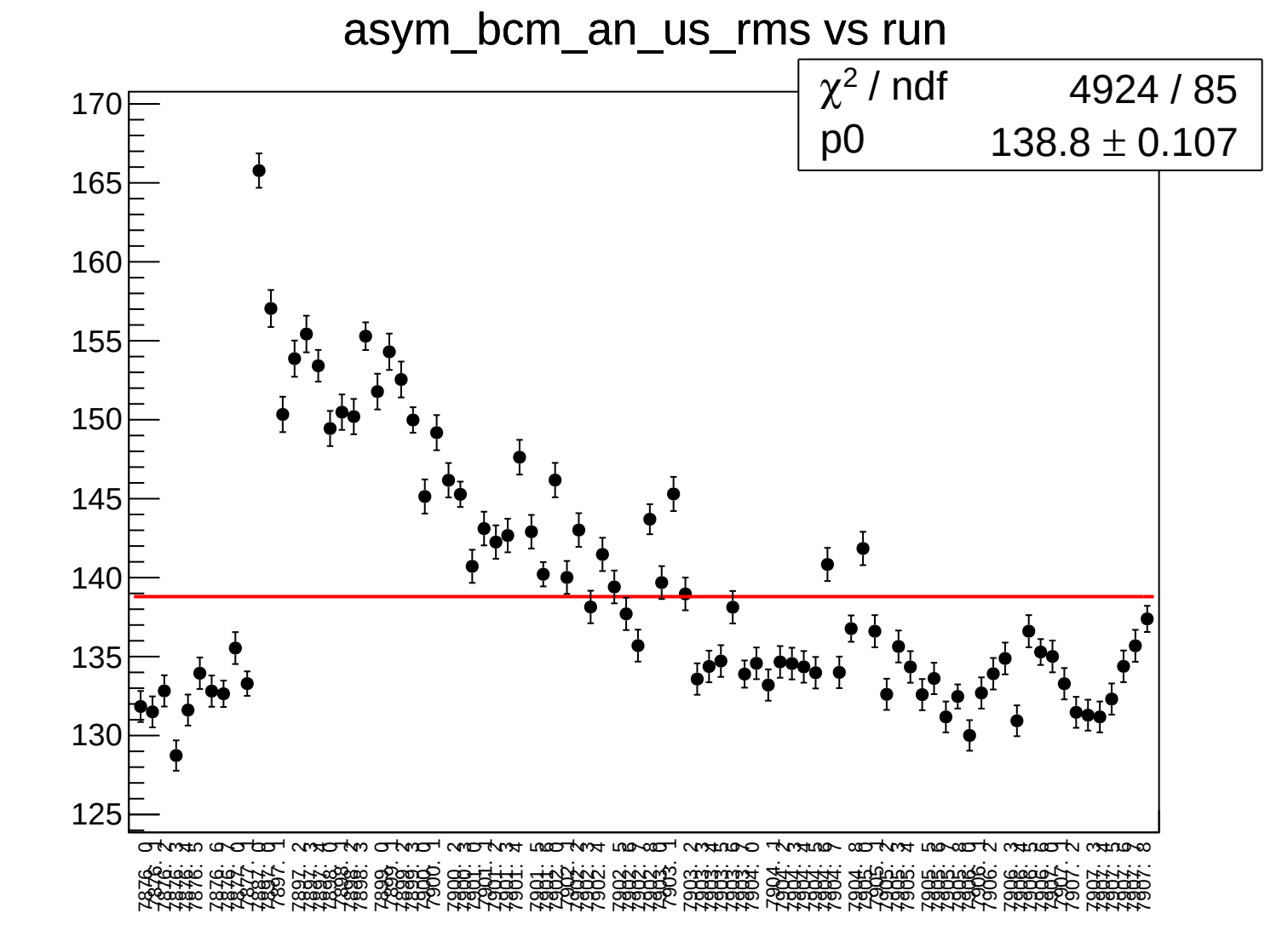

asym_bcm_an_ds3_mean vs run
χ² / ndf 21.94 / 85
p0 −248.4 ± 150.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean −300.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

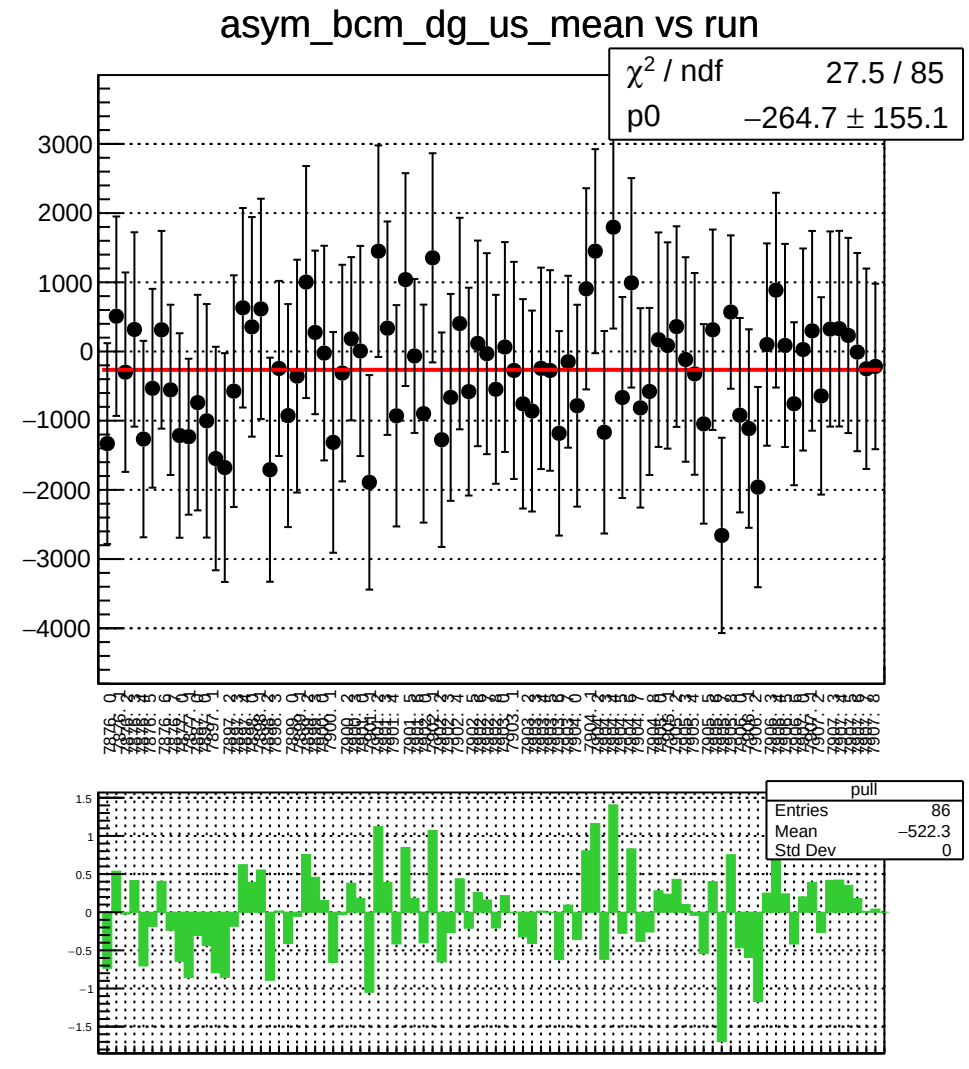

pull1D
Entries 86
Mean −0.001999
Std Dev 0.5051
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

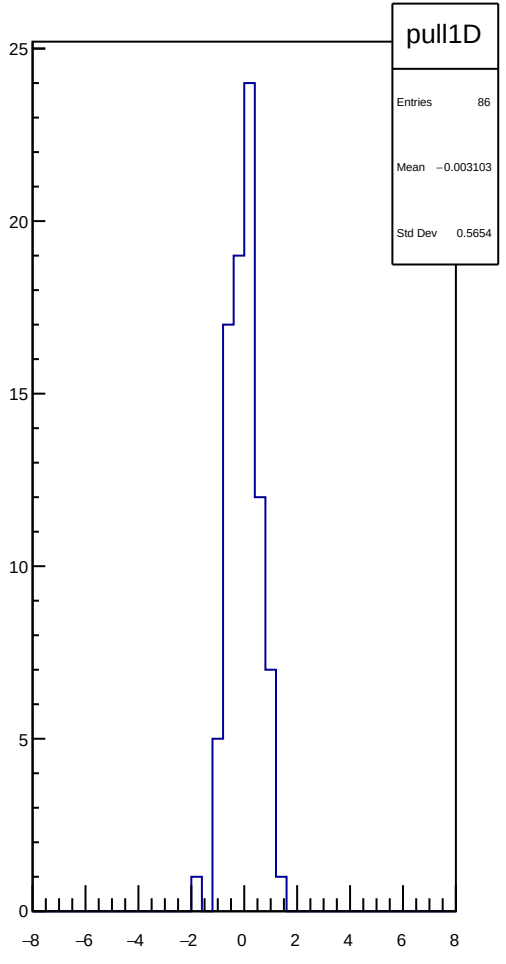

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 5073 / 85
p0 138.2 ± 0.1066
170
165
160
155
150
145
140
135
130
125

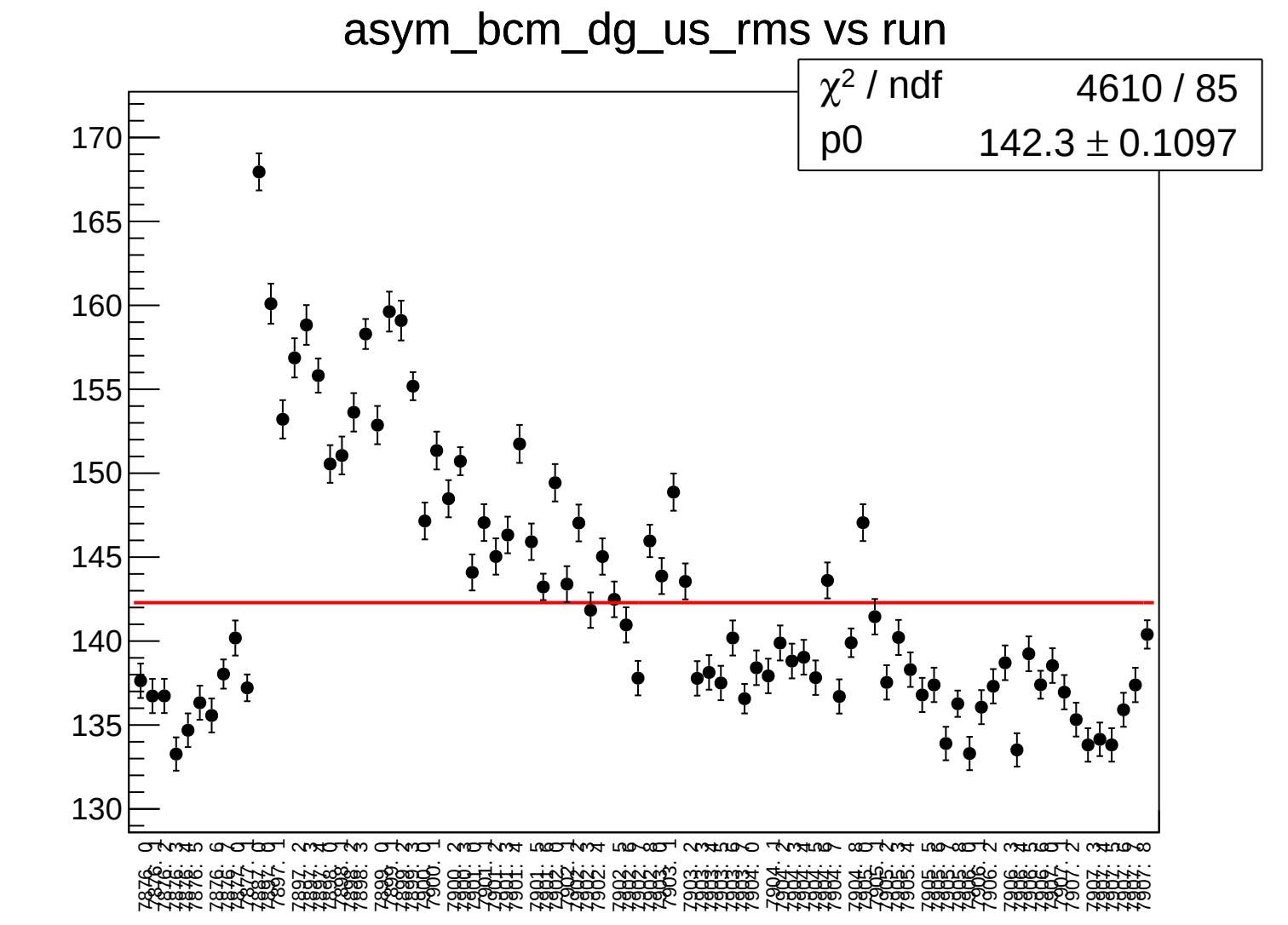

asym_bcm_an_us_mean vs run
χ² / ndf 20.37 / 85
p0 −225.5 ± 151.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −280
Std Dev 0
1
0.5
0
−0.5
−1

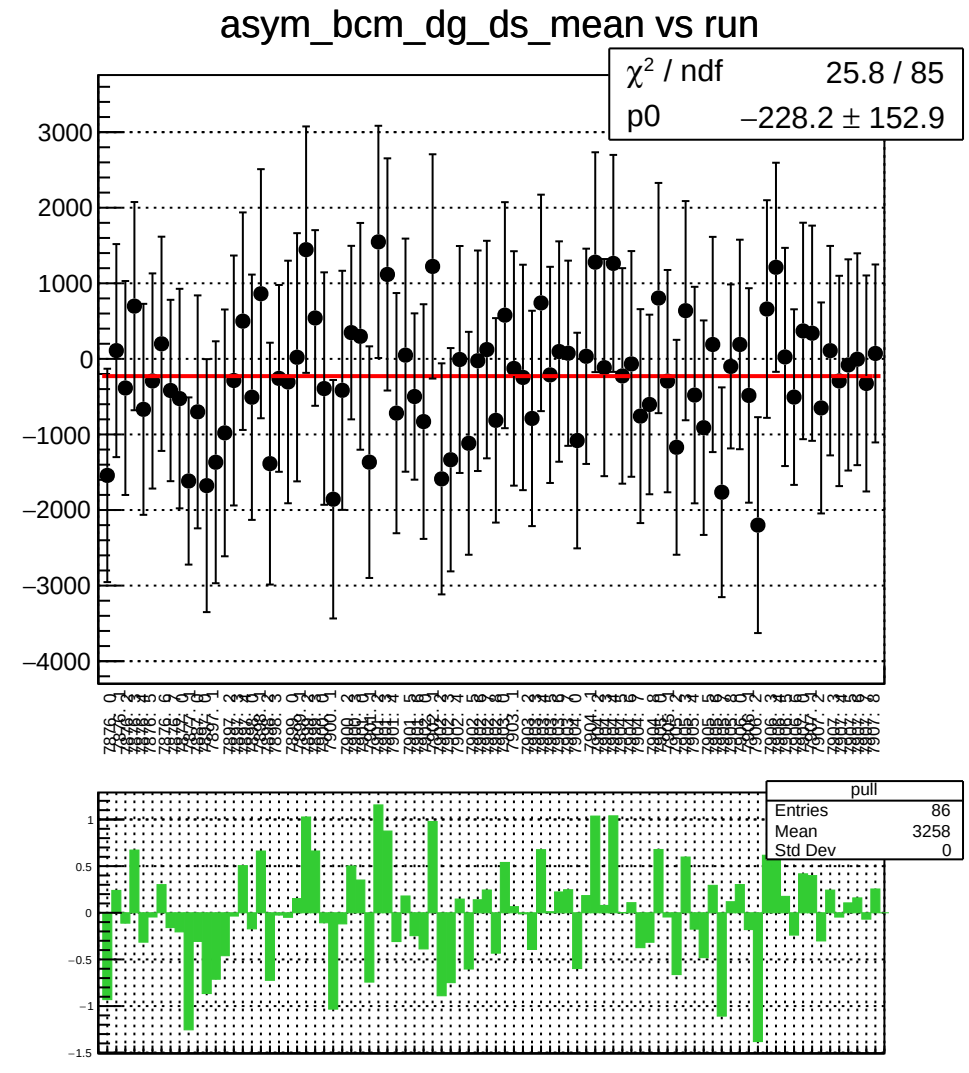

pull1D
Entries 86
Mean −0.004225
Std Dev 0.4866
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

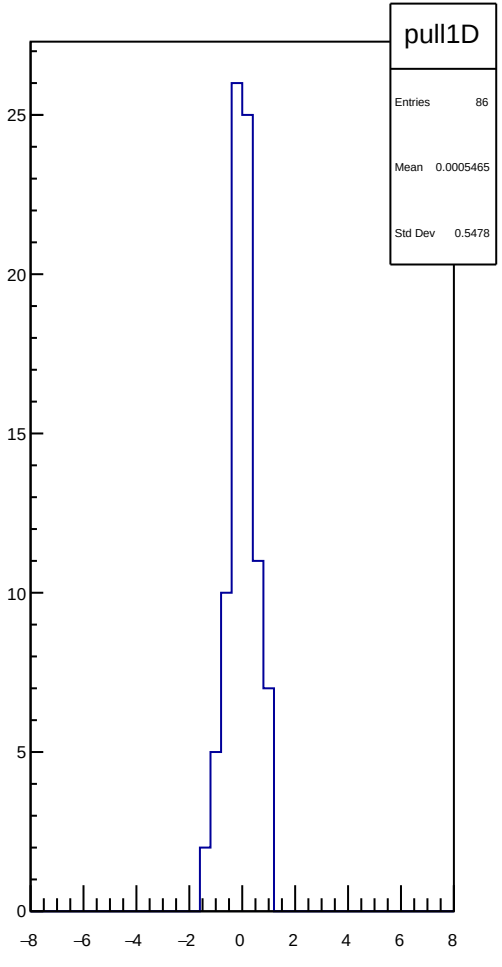

asym_bcm_an_us_rms vs run
χ^2 / ndf 4924 / 85
p0 138.8 ± 0.107
170
165
160
155
150
145
140
135
130
125

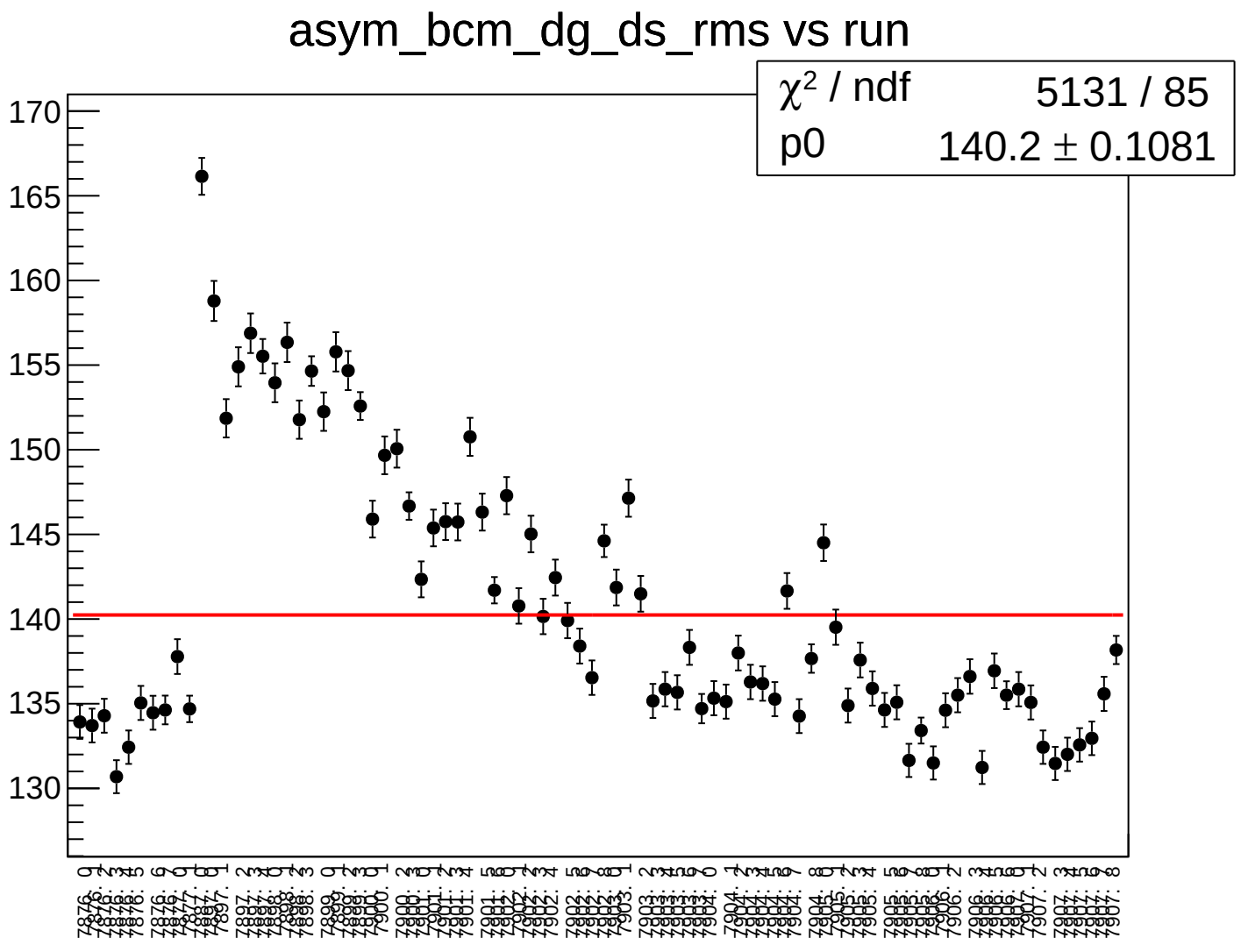

asym_bcm_dg_us_mean vs run
χ² / ndf 27.5 / 85
p0 −264.7 ± 155.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean −522.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

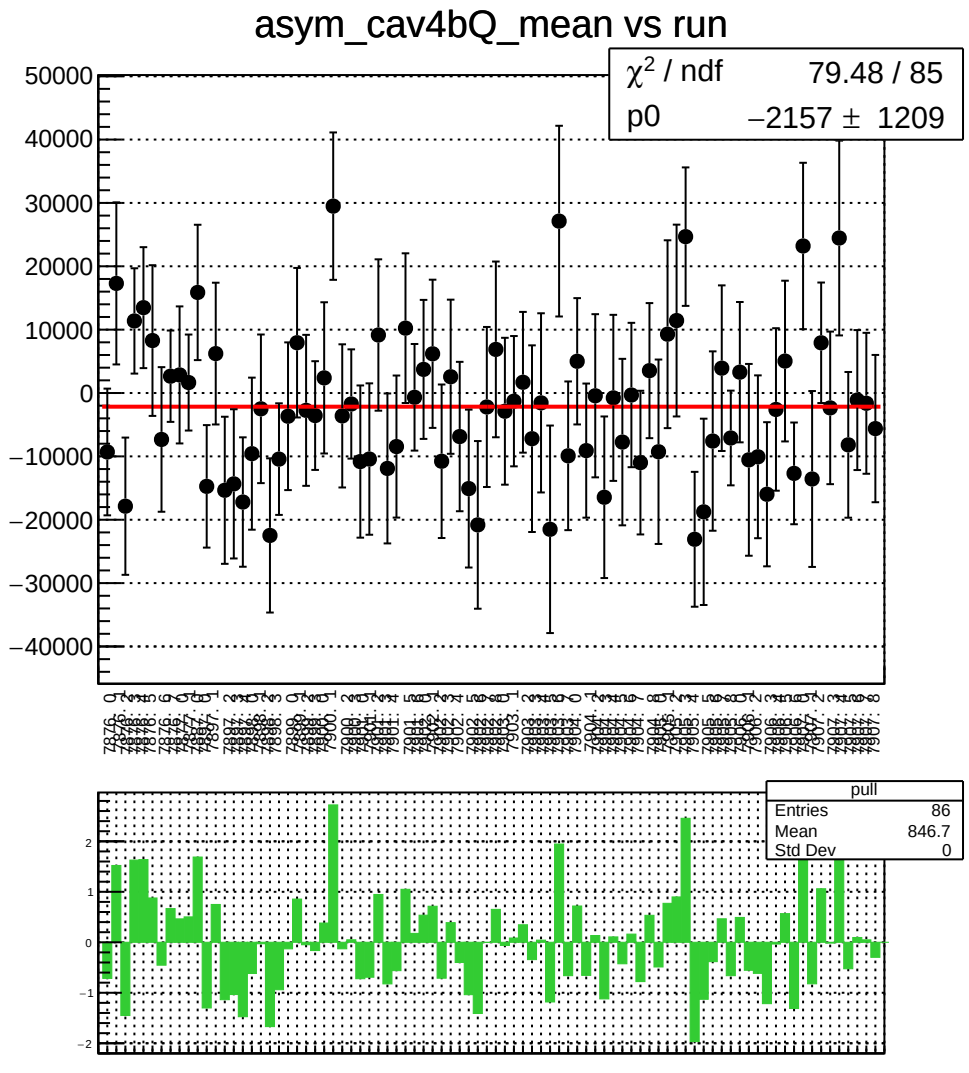

pull1D
Entries 86
Mean −0.003103
Std Dev 0.5654
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

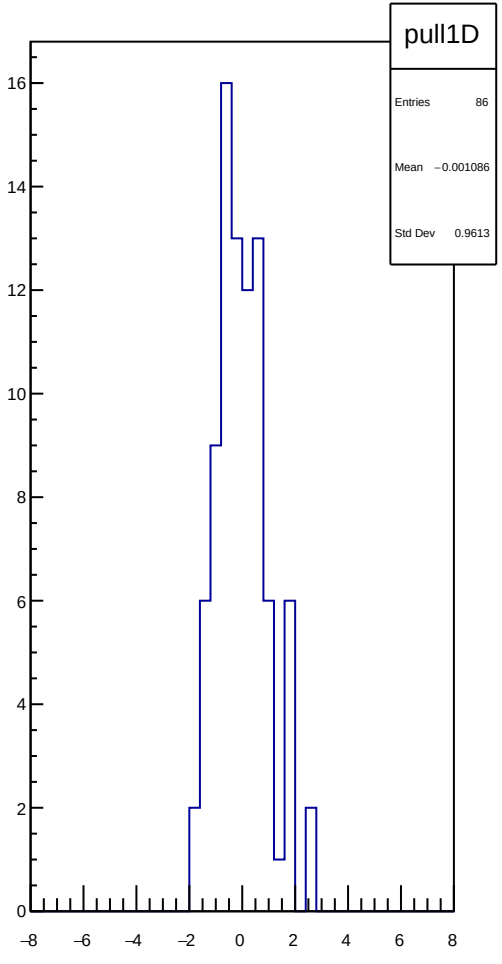

asym_bcm_dg_us_rms vs run
χ² / ndf 4610 / 85
p0 142.3 ± 0.1097
170
165
160
155
150
145
140
135
130

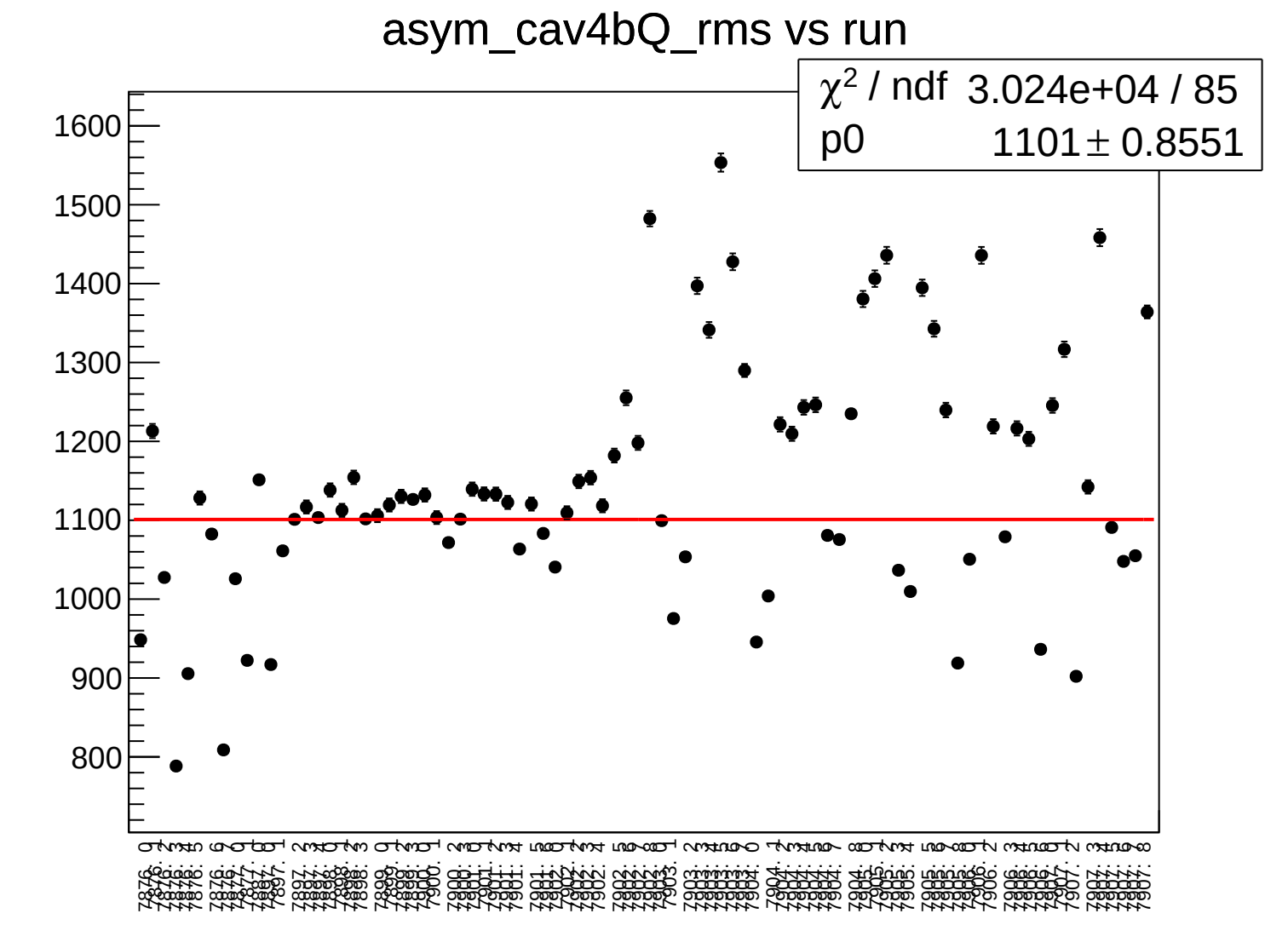

asym_bcm_dg_ds_mean vs run
χ² / ndf 25.8 / 85
p0 −228.2 ± 152.9
pull
Entries 86
Mean 3258
Std Dev 0

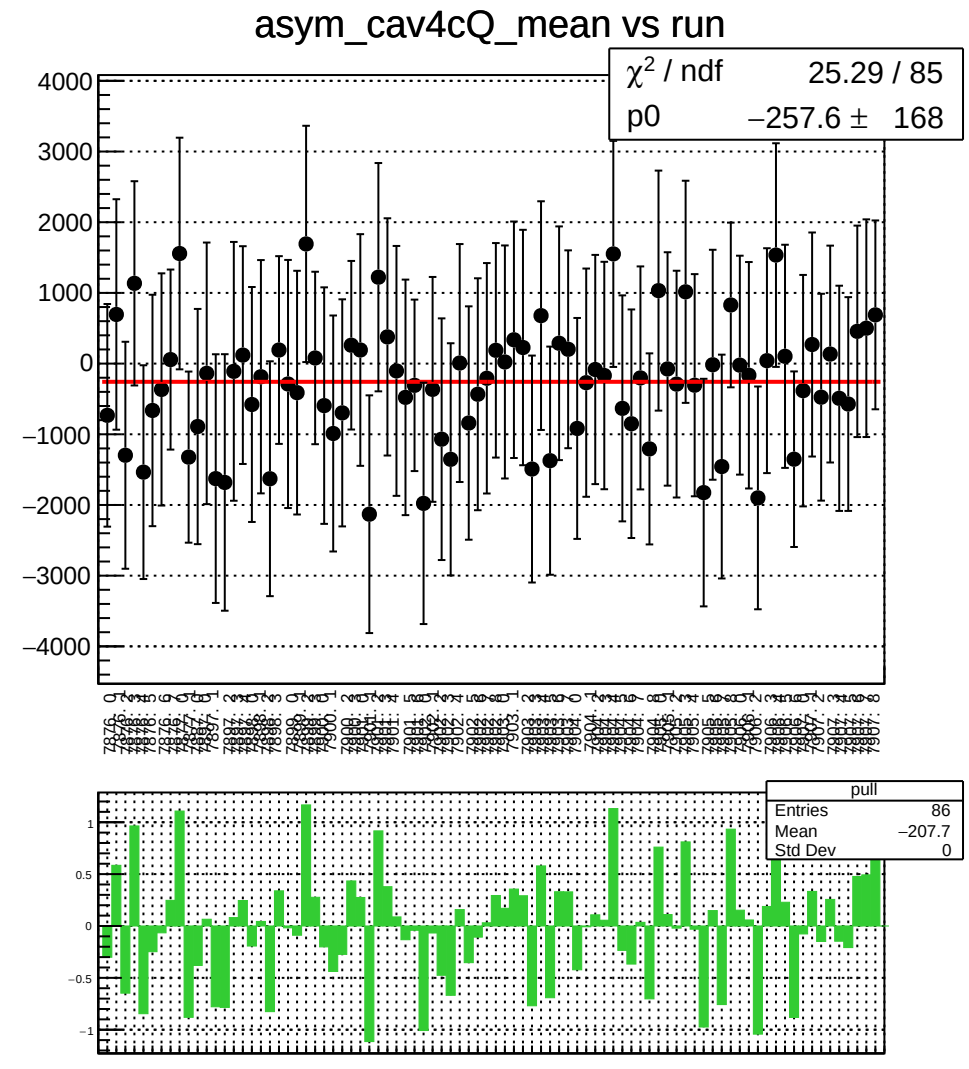

pull1D
Entries 86
Mean 0.0005465
Std Dev 0.5478

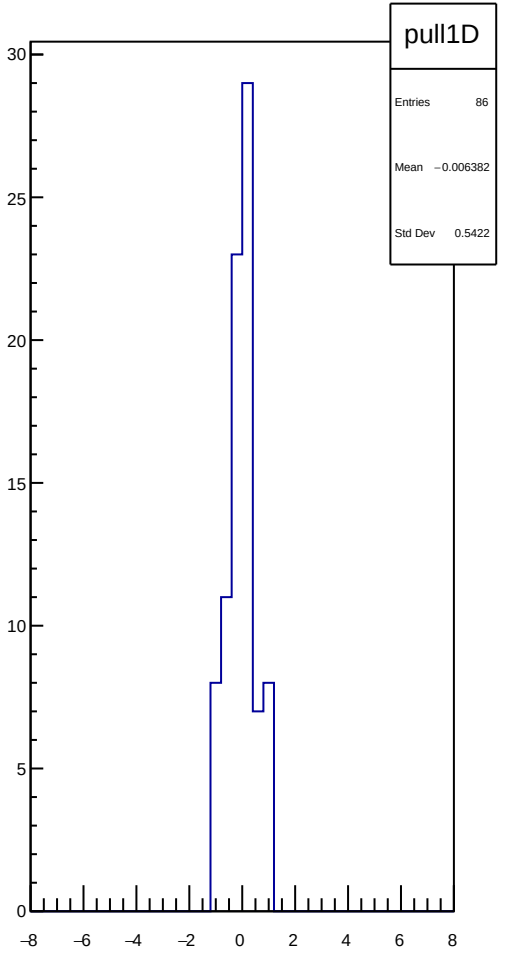

asym_bcm_dg_ds_rms vs run
χ² / ndf 5131 / 85
p0 140.2 ± 0.1081
170
165
160
155
150
145
140
135
130

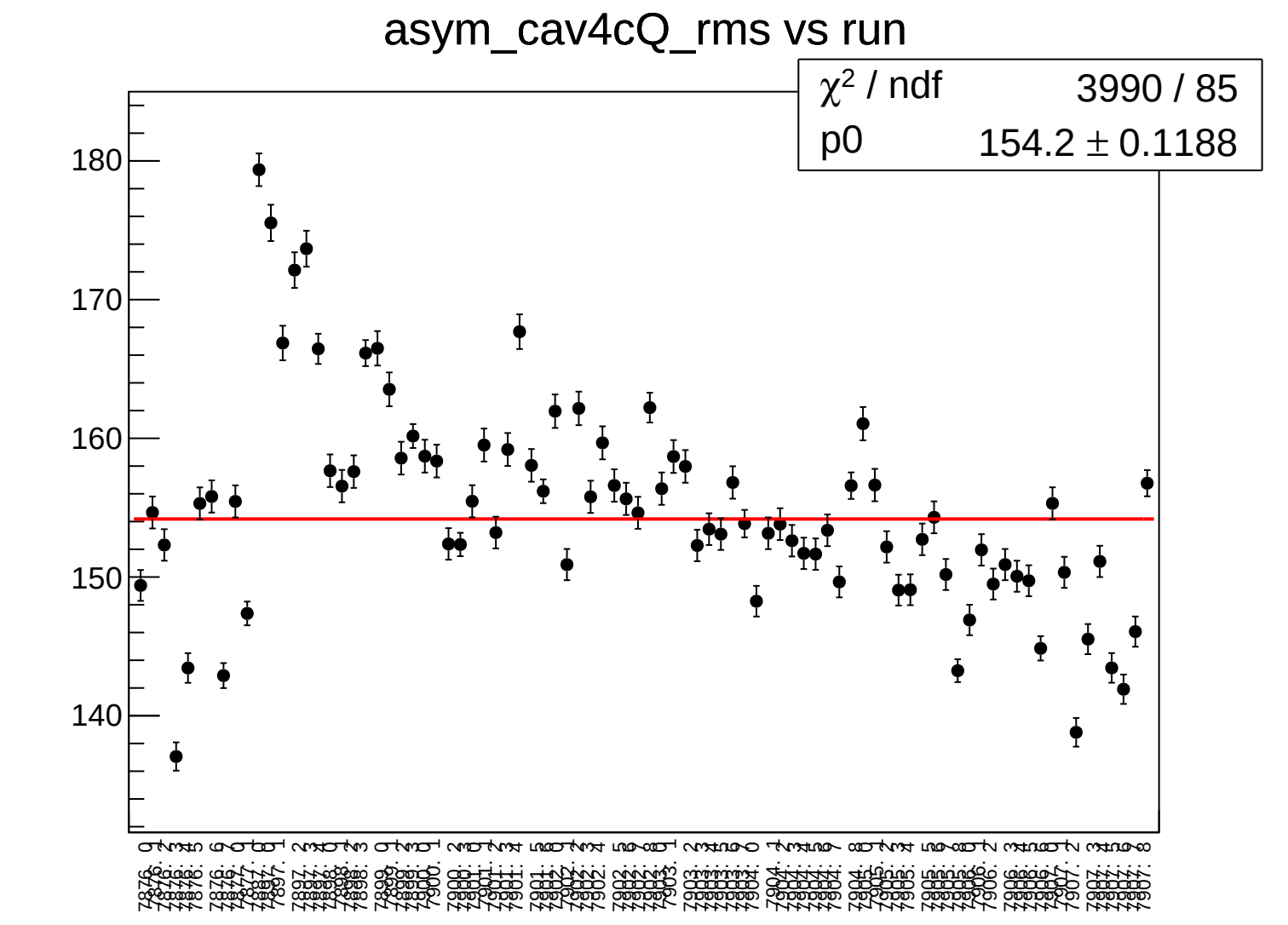

asym_cav4bQ_mean vs run
χ² / ndf 79.48 / 85
p0 −2157 ± 1209
pull
Entries 86
Mean 846.7
Std Dev 0

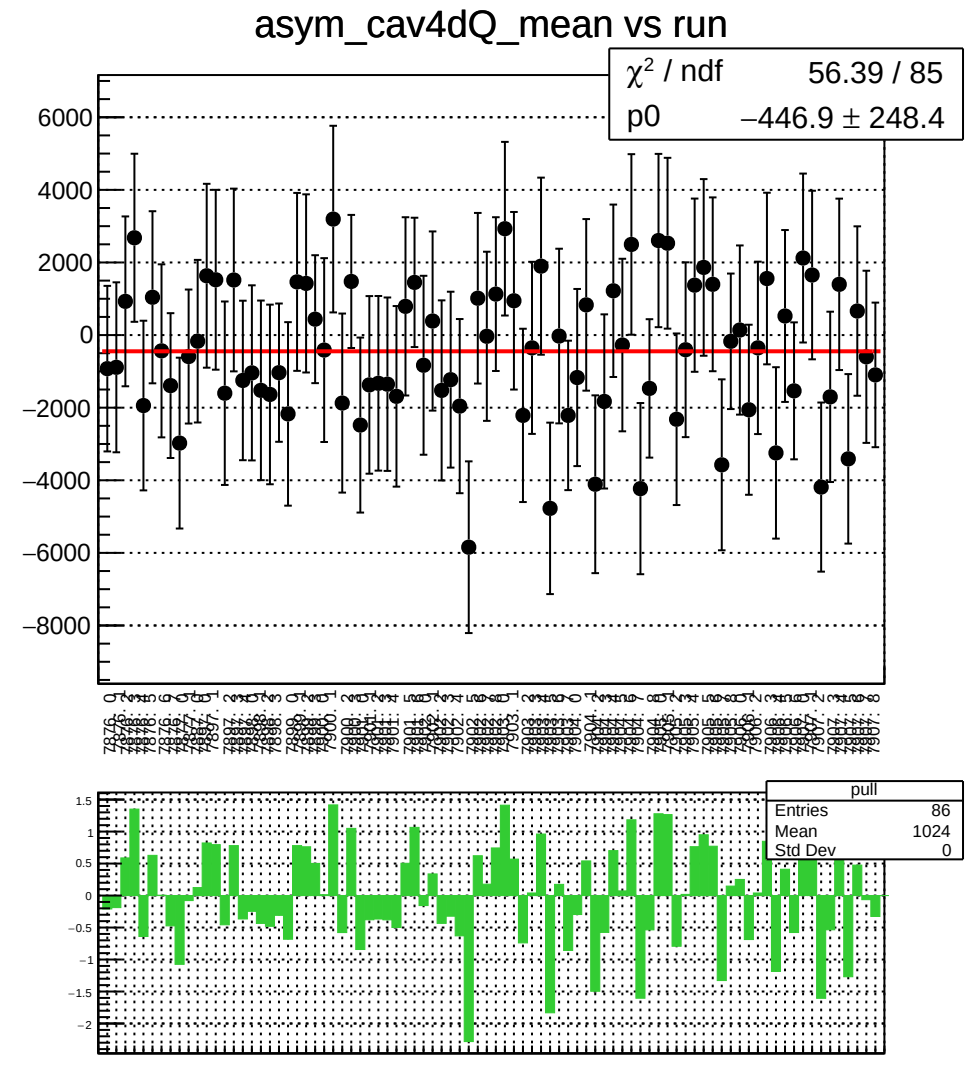

pull1D
Entries 86
Mean −0.001086
Std Dev 0.9613

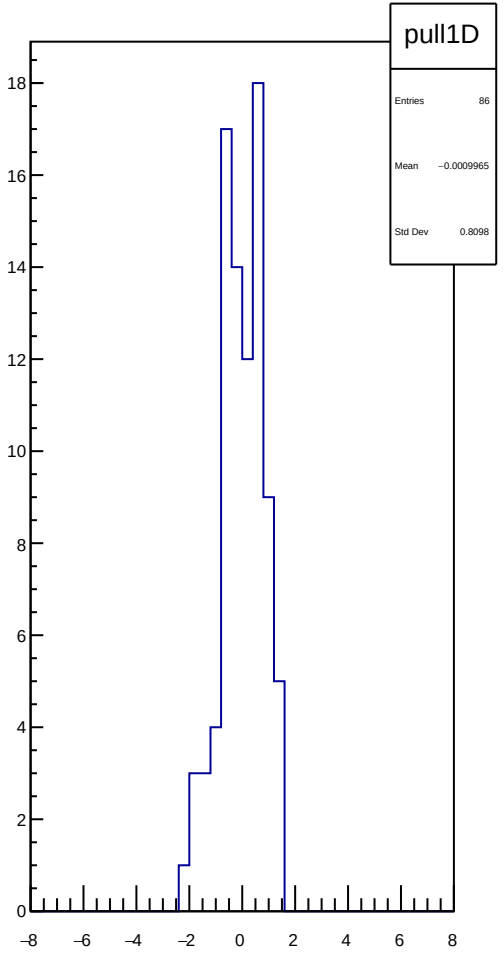

asym_cav4bQ_rms vs run
χ² / ndf 3.024e+04 / 85
p0 1101 ± 0.8551
1600
1500
1400
1300
1200
1100
1000
900
800

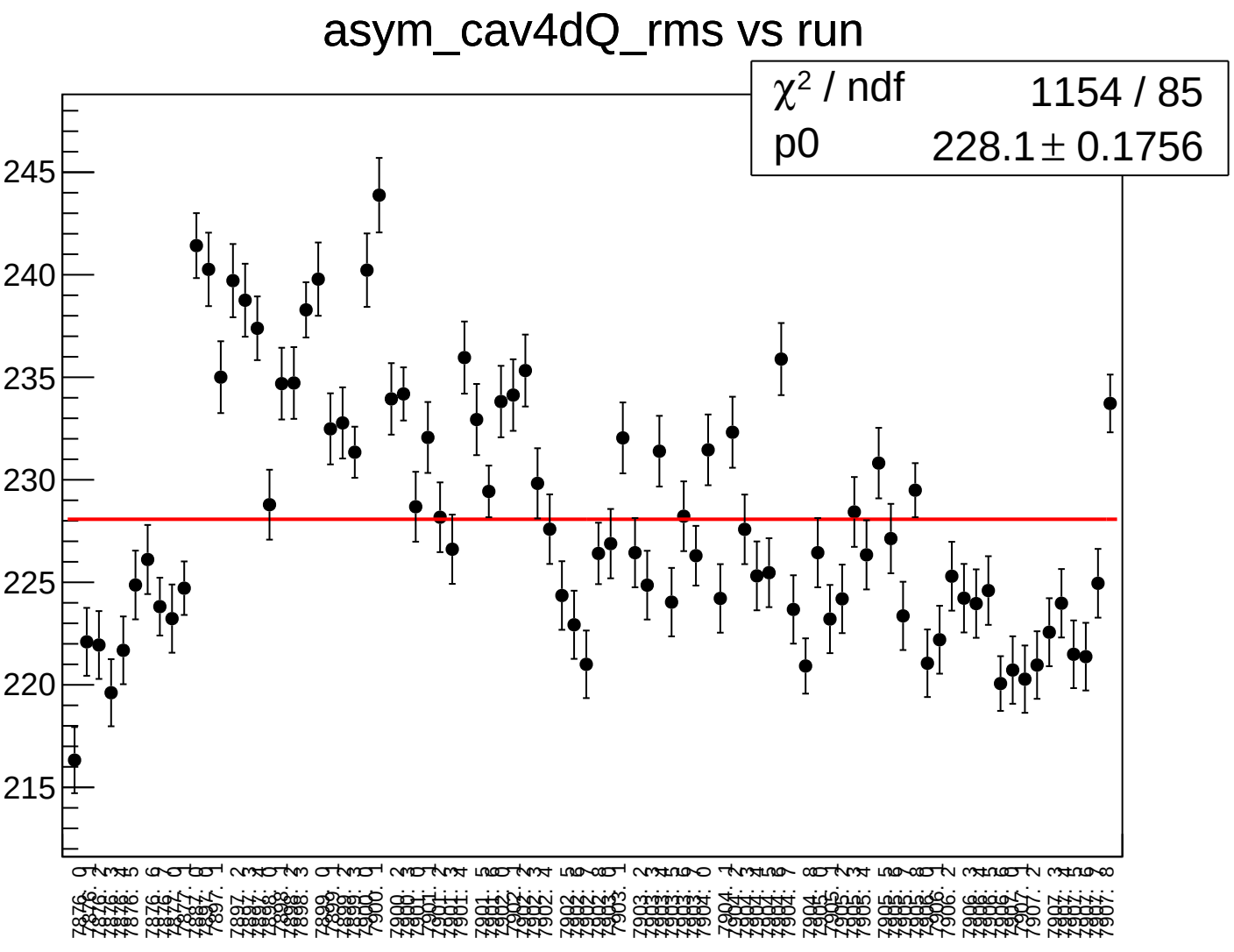

asym_cav4cQ_mean vs run
χ² / ndf 25.29 / 85
p0 −257.6 ± 168
pull
Entries 86
Mean −207.7
Std Dev 0

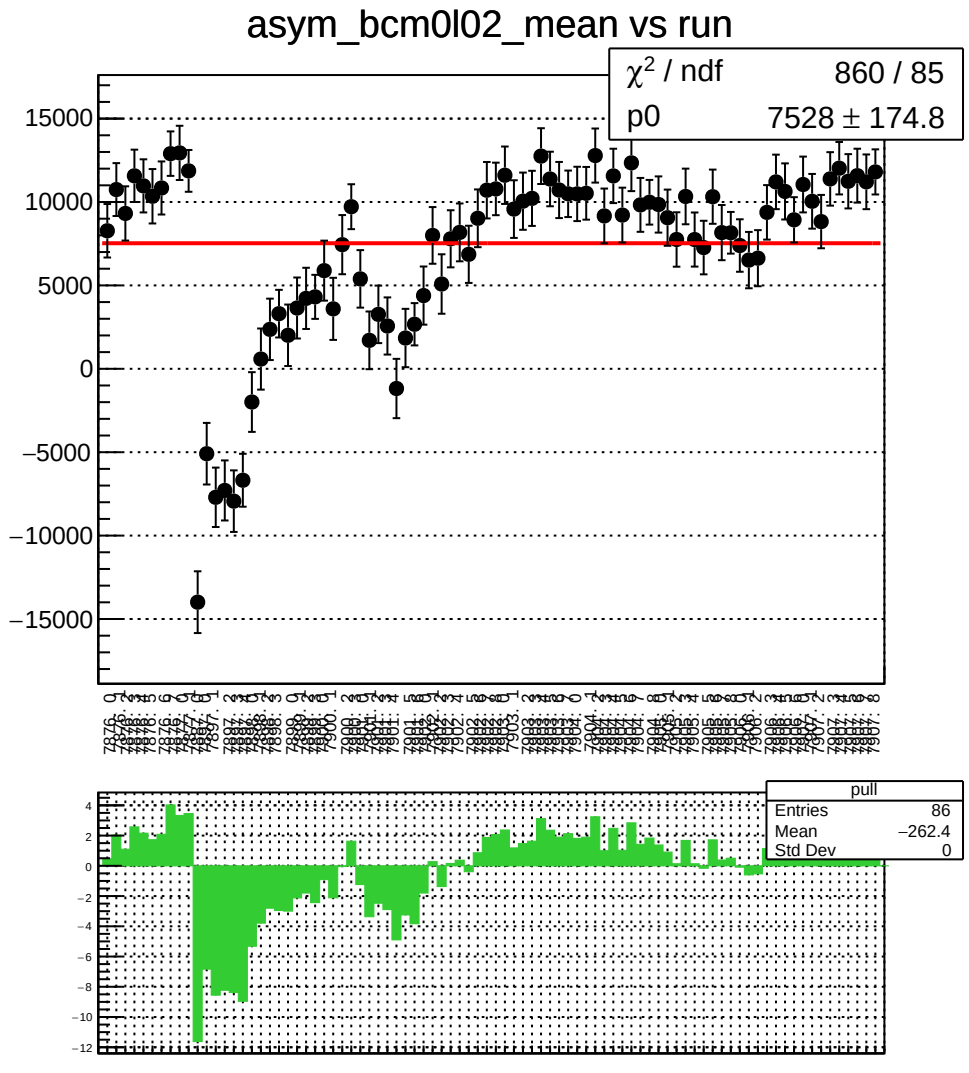

pull1D
Entries 86
Mean −0.006382
Std Dev 0.5422

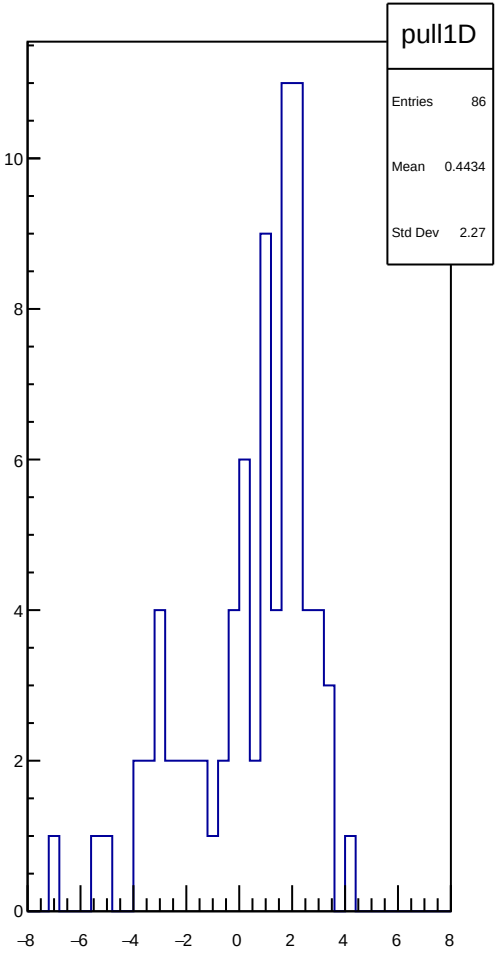

asym_cav4cQ_rms vs run
χ² / ndf 3990 / 85
p0 154.2 ± 0.1188
180
170
160
150
140

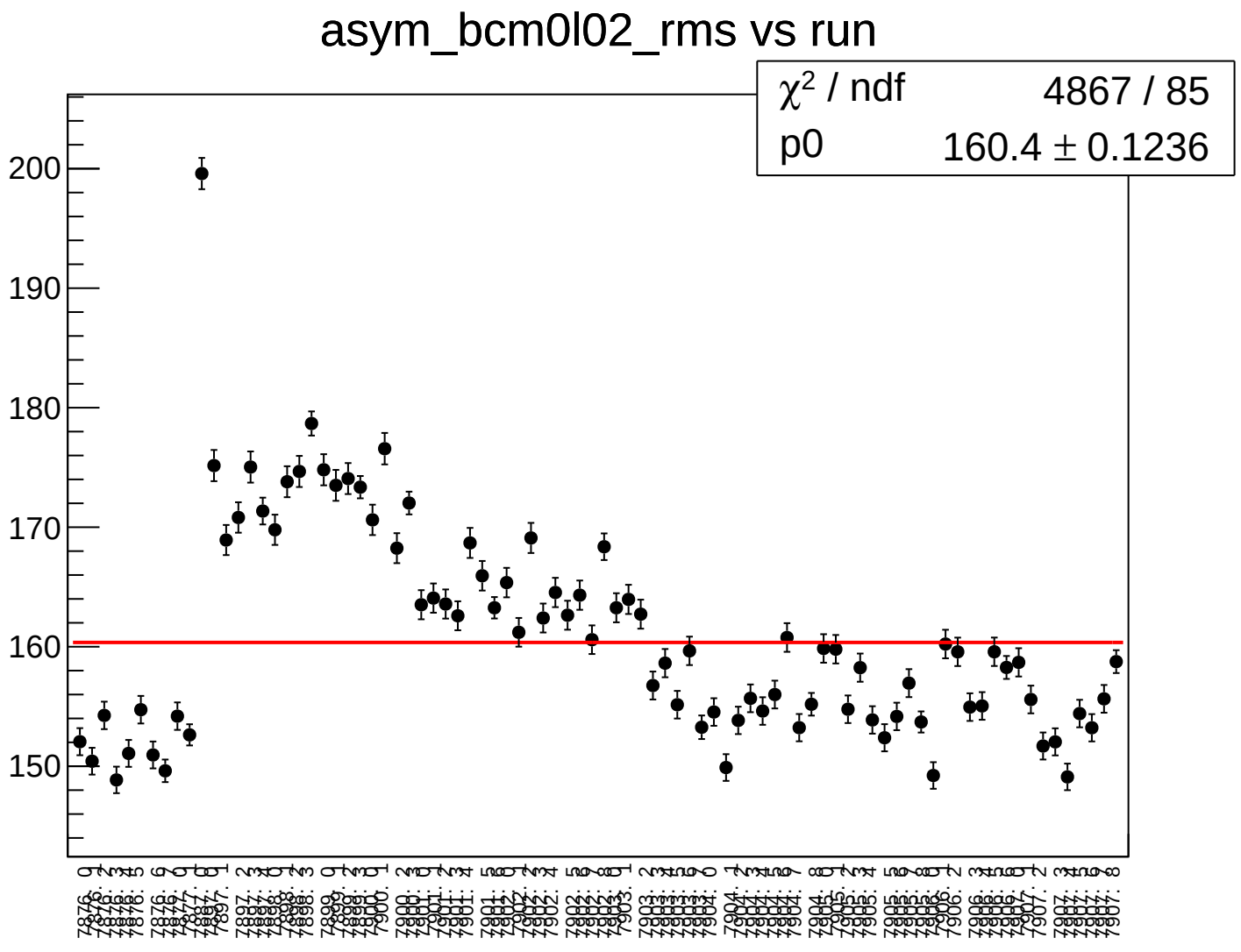

asym_cav4dQ_mean vs run
χ² / ndf 56.39 / 85
p0 −446.9 ± 248.4
pull
Entries 86
Mean 1024
Std Dev 0

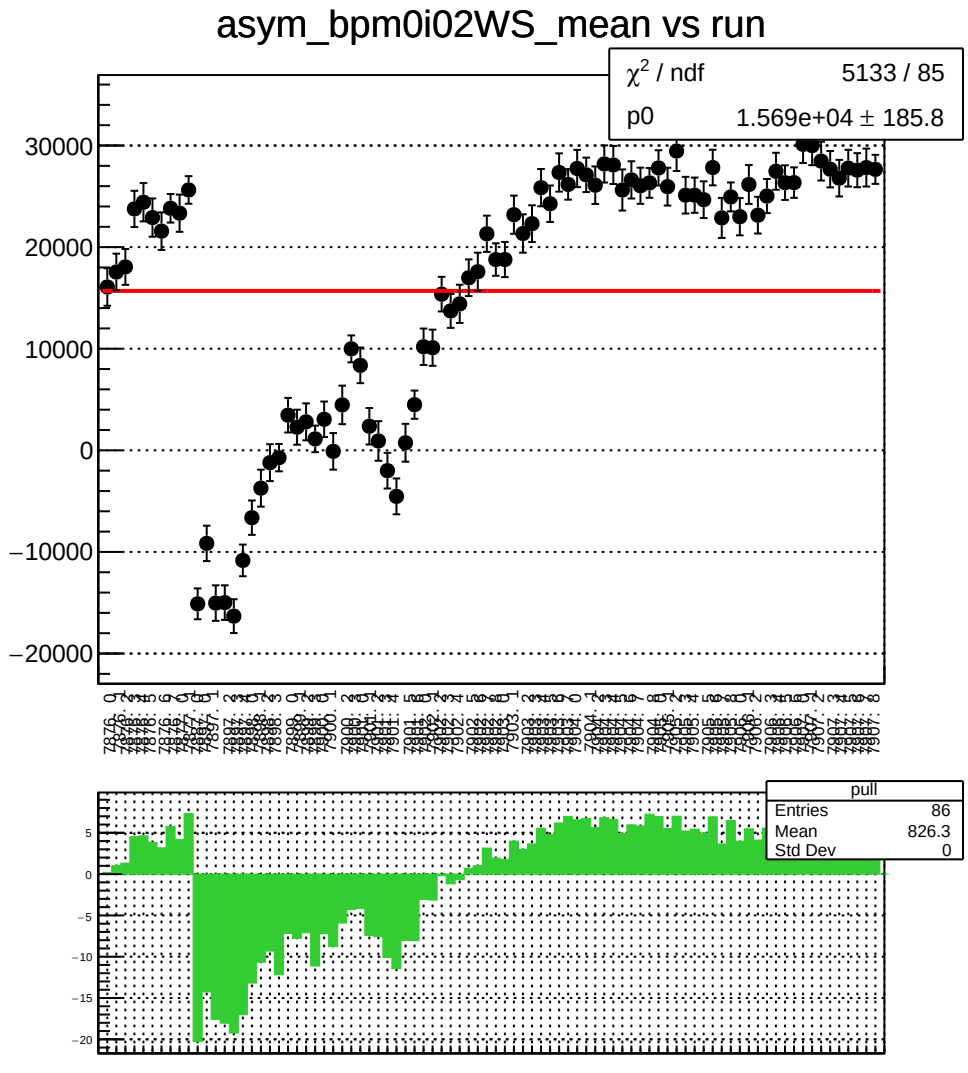

pull1D
Entries 86
Mean −0.0009965
Std Dev 0.8098

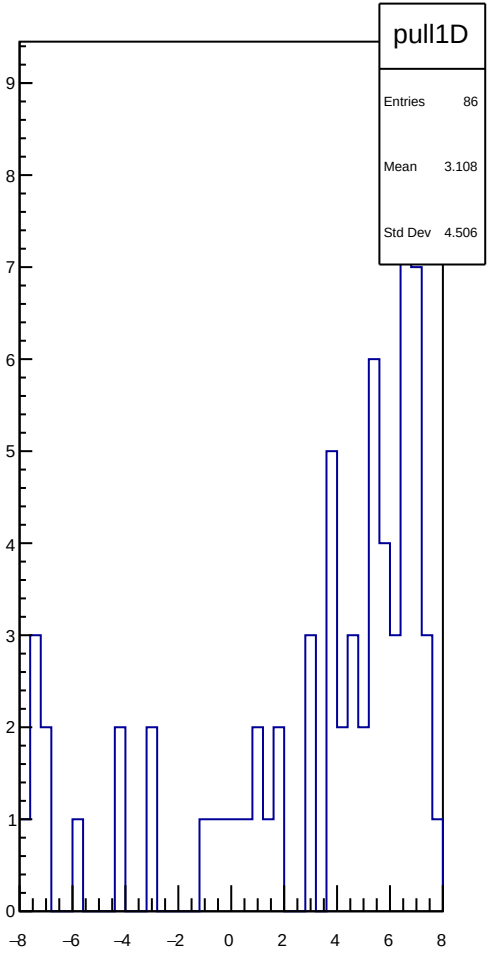

asym_cav4dQ_rms vs run
χ² / ndf 1154 / 85
p0 228.1 ± 0.1756
245
240
235
230
225
220
215

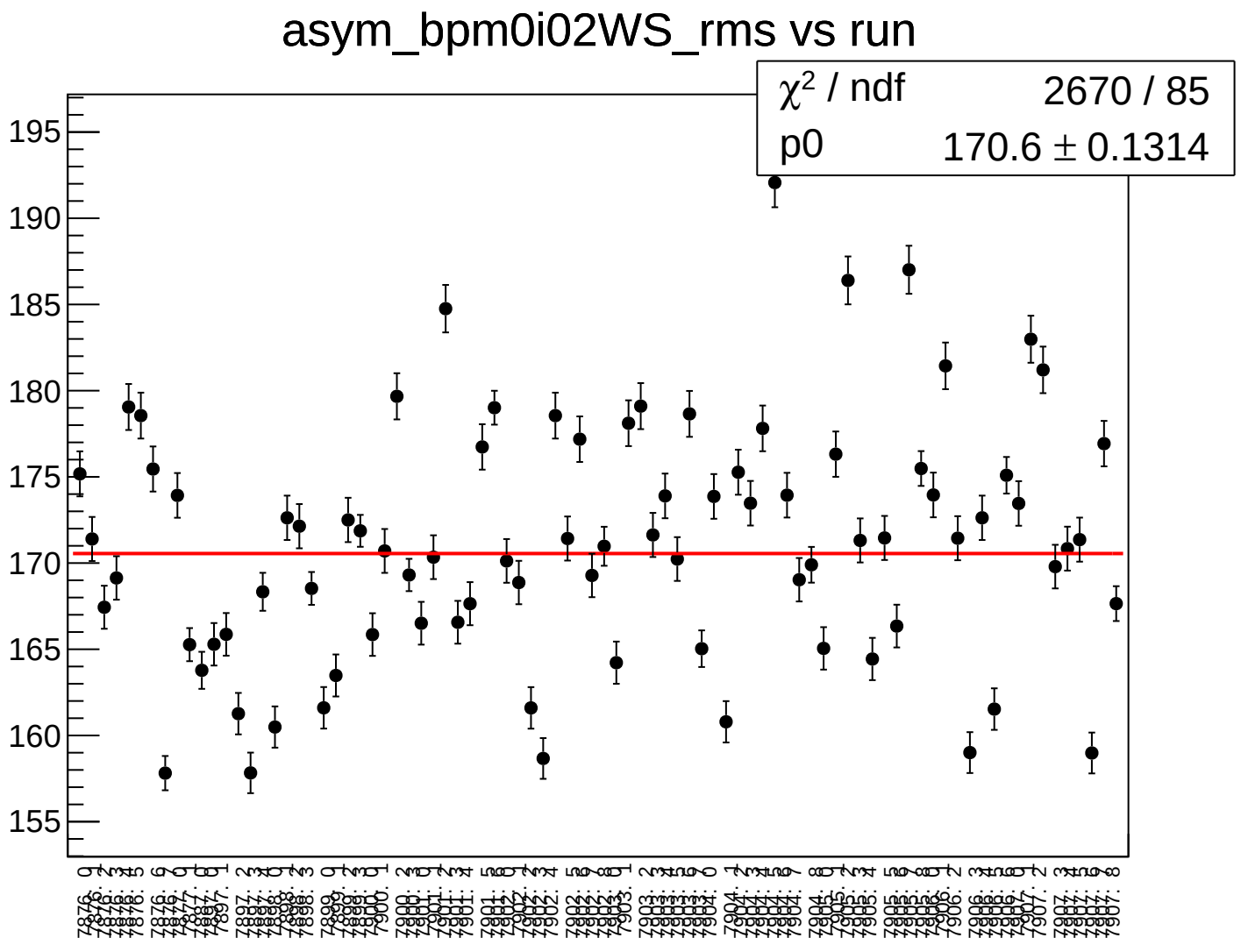

asym_bcm0l02_mean vs run
χ² / ndf 860 / 85
p0 7528 ± 174.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −262.4
Std Dev 0
4
2
0
−2
−4
−6
−8
−10
−12

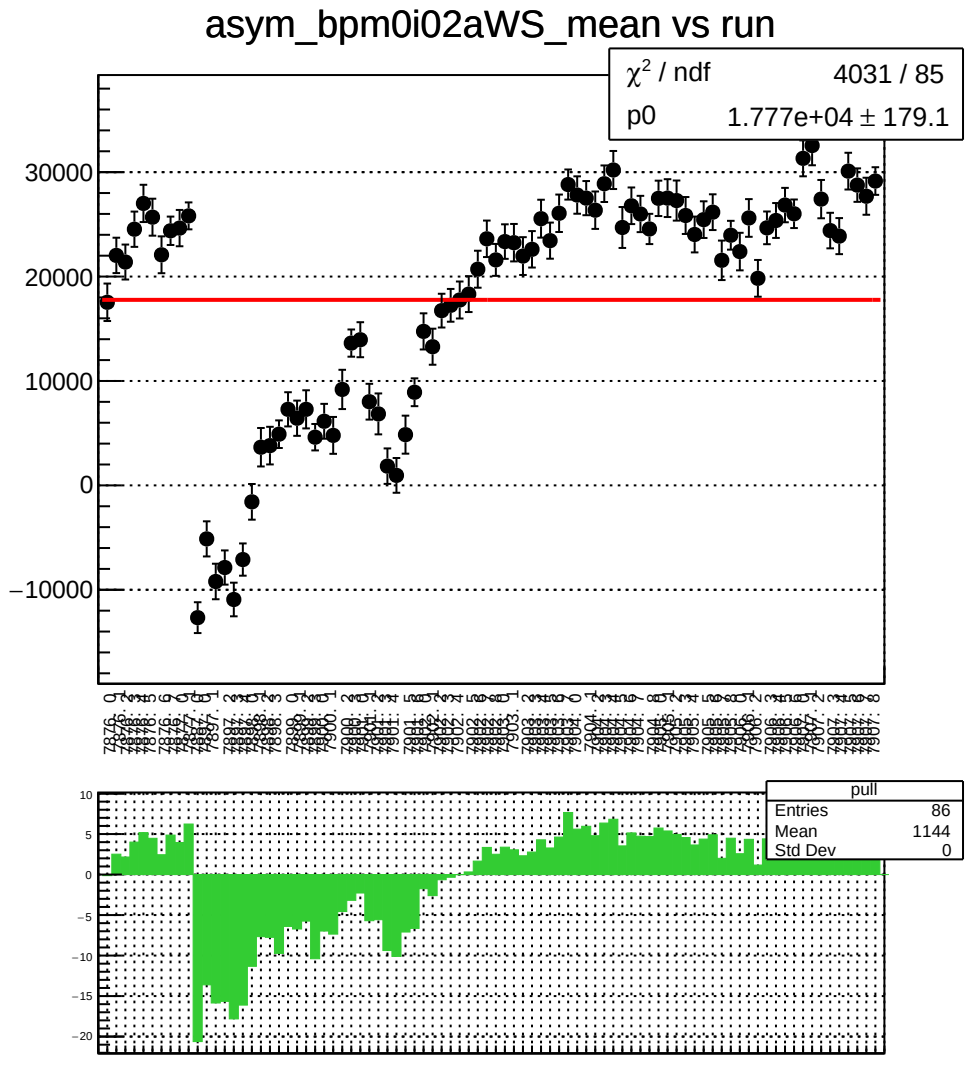

pull1D
Entries 86
Mean 0.4434
Std Dev 2.27
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

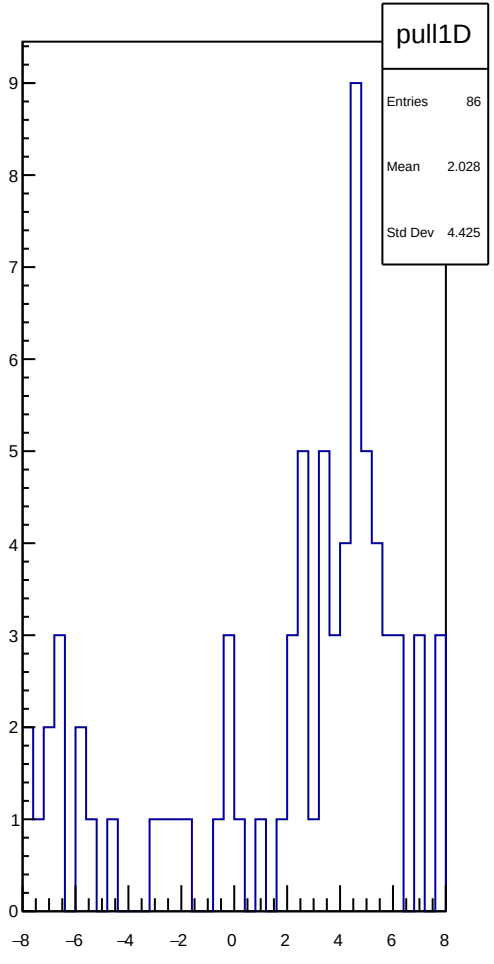

asym_bcm0l02_rms vs run
χ² / ndf 4867 / 85
p0 160.4 ± 0.1236
200
190
180
170
160
150

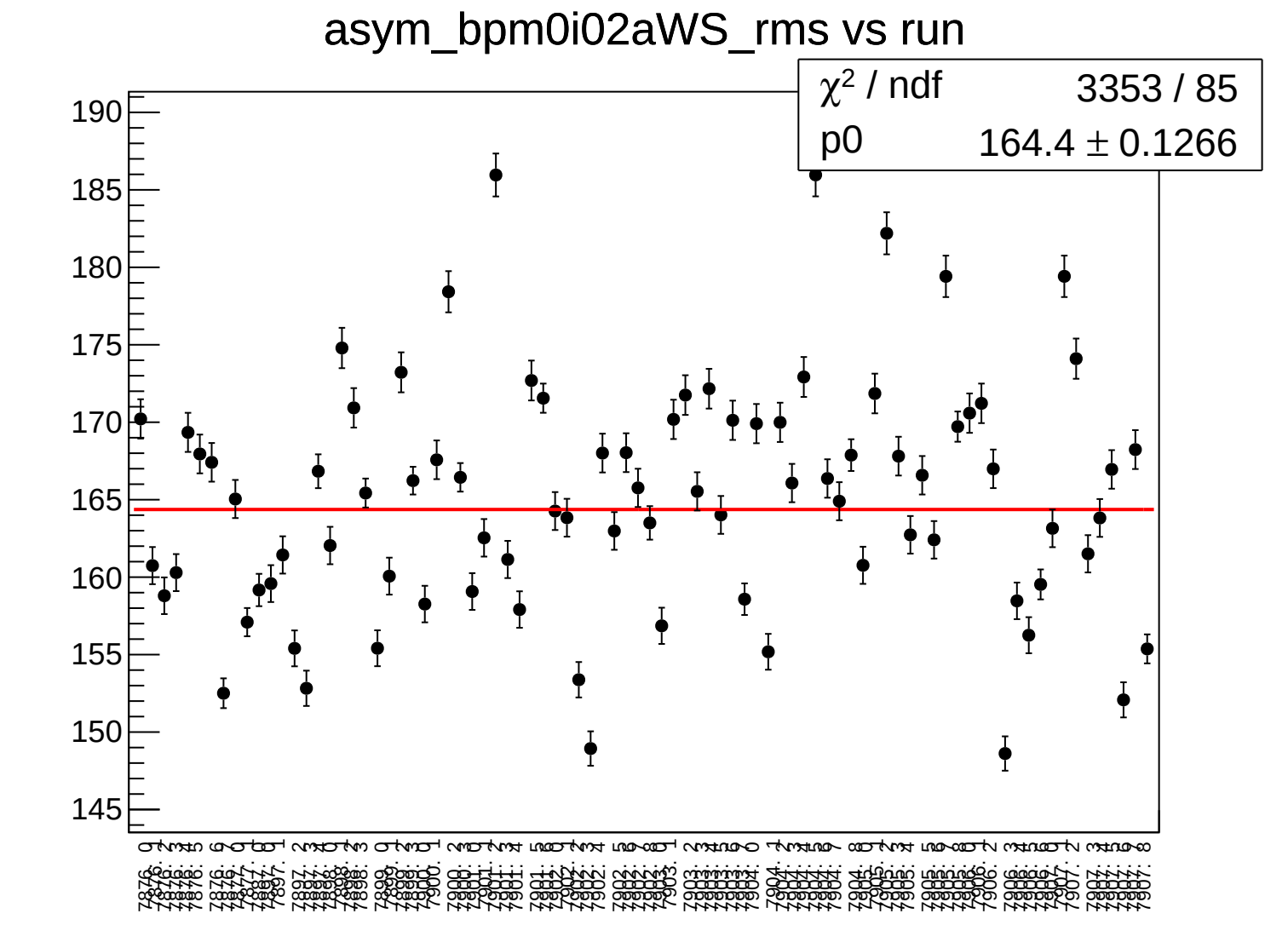

asym_bpm0i02WS_mean vs run
χ² / ndf 5133 / 85
p0 1.569e+04 ± 185.8
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 826.3
Std Dev 0
5
0
−5
−10
−15
−20

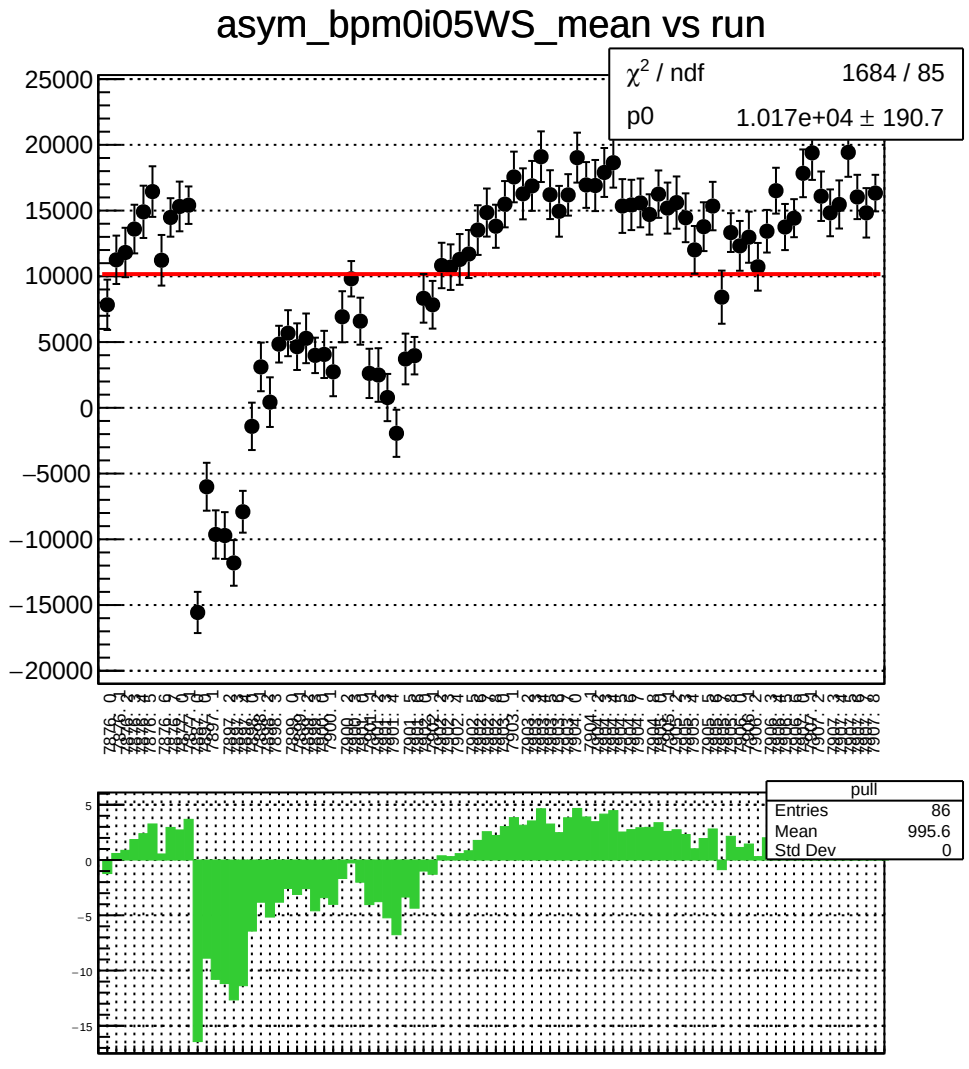

pull1D
Entries 86
Mean 3.108
Std Dev 4.506
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

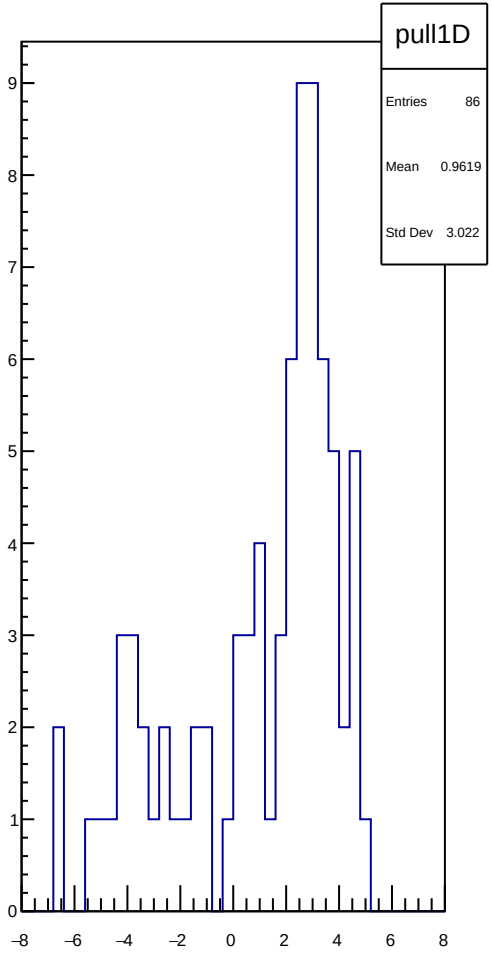

asym_bpm0i02WS_rms vs run
χ² / ndf 2670 / 85
p0 170.6 ± 0.1314
195
190
185
180
175
170
165
160
155

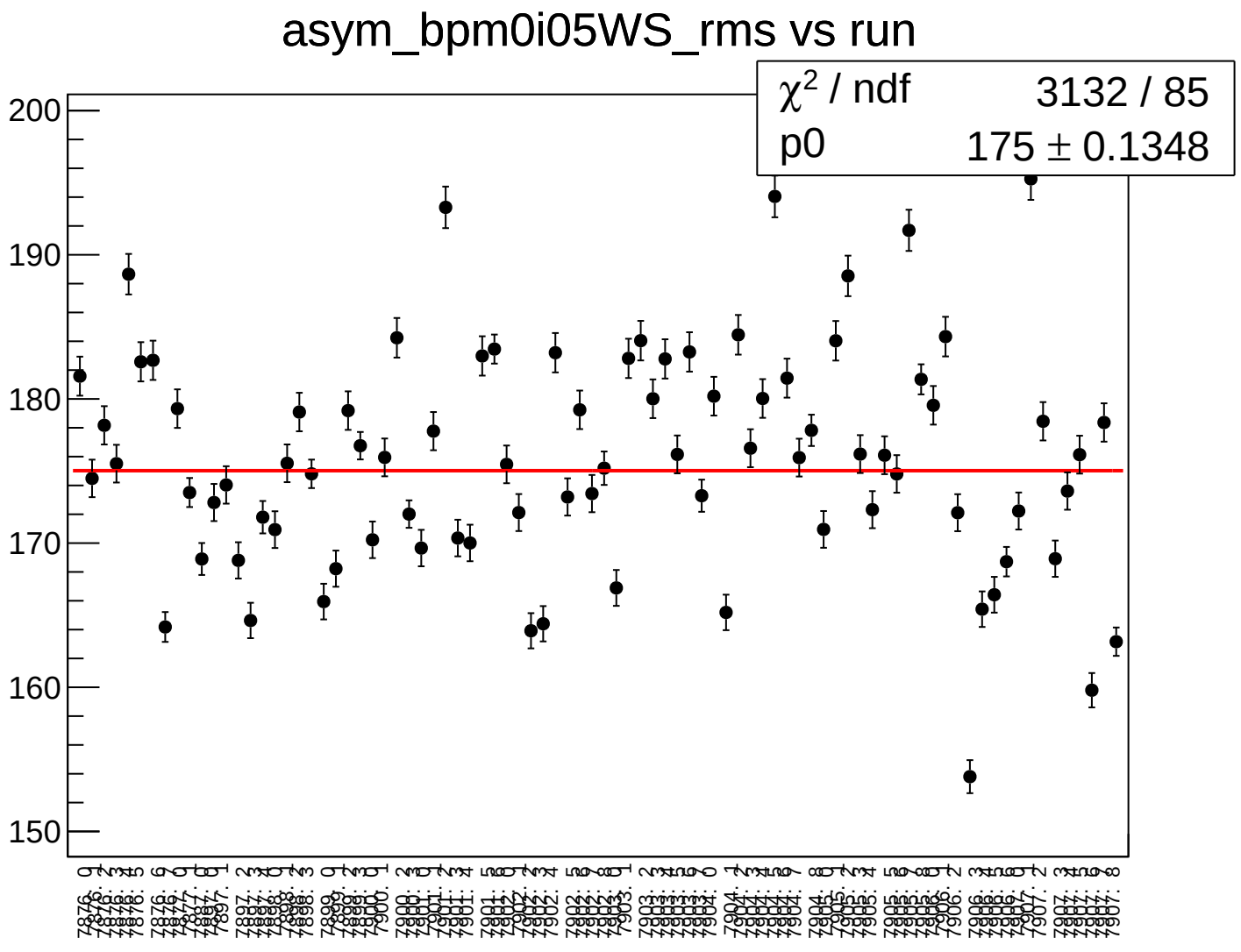

asym_bpm0i02aWS_mean vs run
χ² / ndf 4031 / 85
p0 1.777e+04 ± 179.1
30000
20000
10000
0
−10000
pull
Entries 86
Mean 1144
Std Dev 0
10
5
0
−5
−10
−15
−20

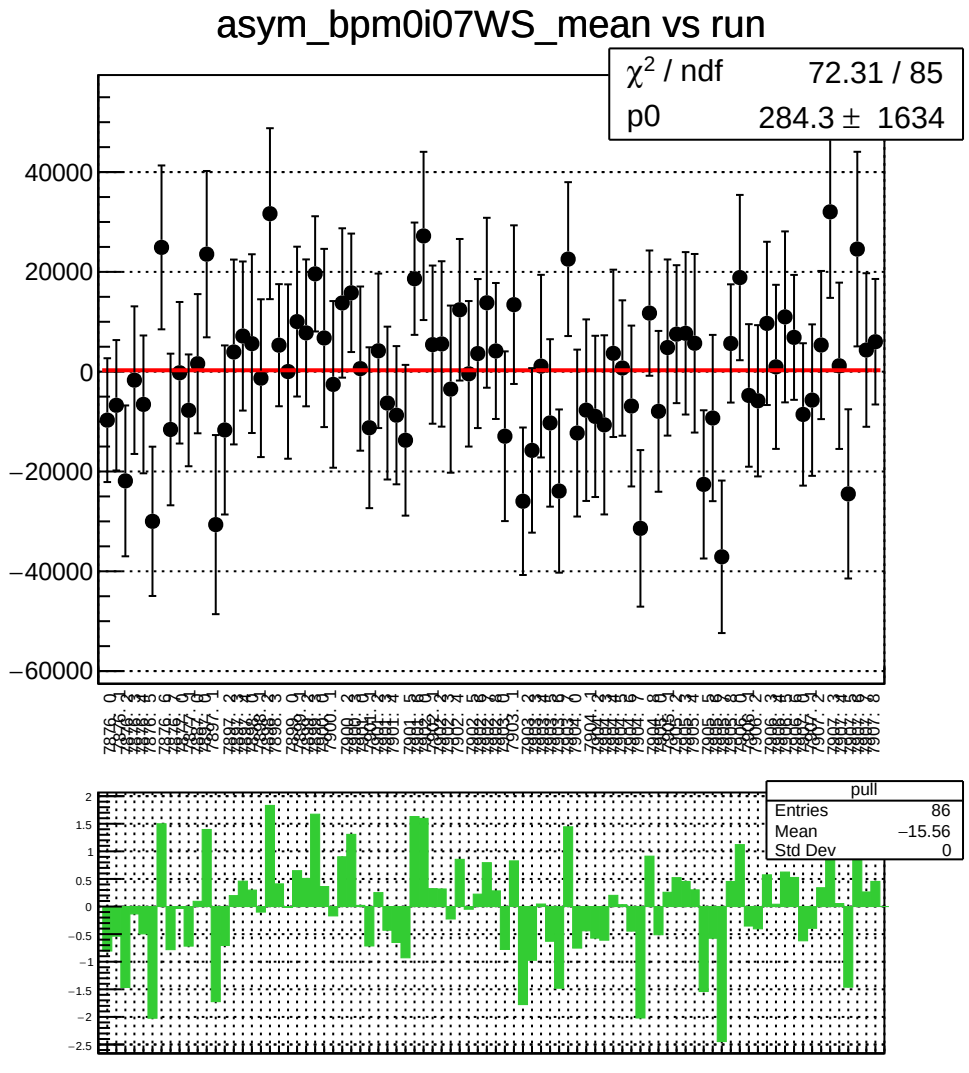

pull1D
Entries 86
Mean 2.028
Std Dev 4.425
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

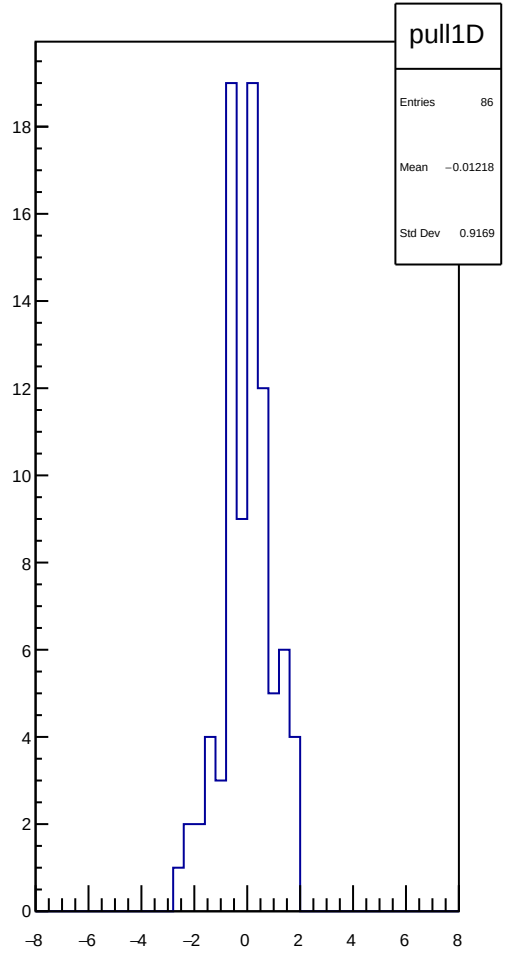

asym_bpm0i02aWS_rms vs run
χ² / ndf 3353 / 85
p0 164.4 ± 0.1266
190
185
180
175
170
165
160
155
150
145

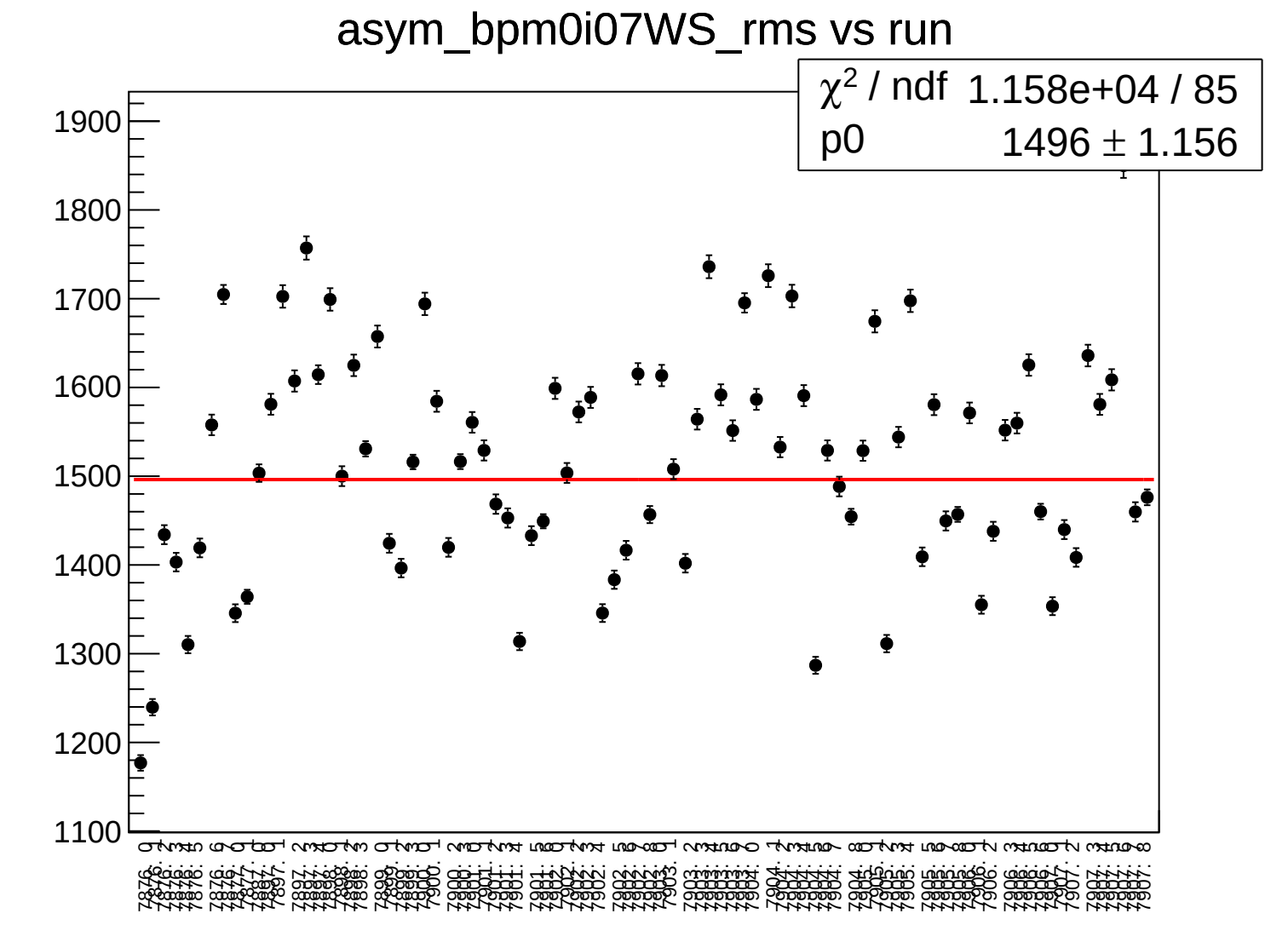

asym_bpm0i05WS_mean vs run
χ² / ndf 1684 / 85
p0 1.017e+04 ± 190.7
pull
Entries 86
Mean 995.6
Std Dev 0

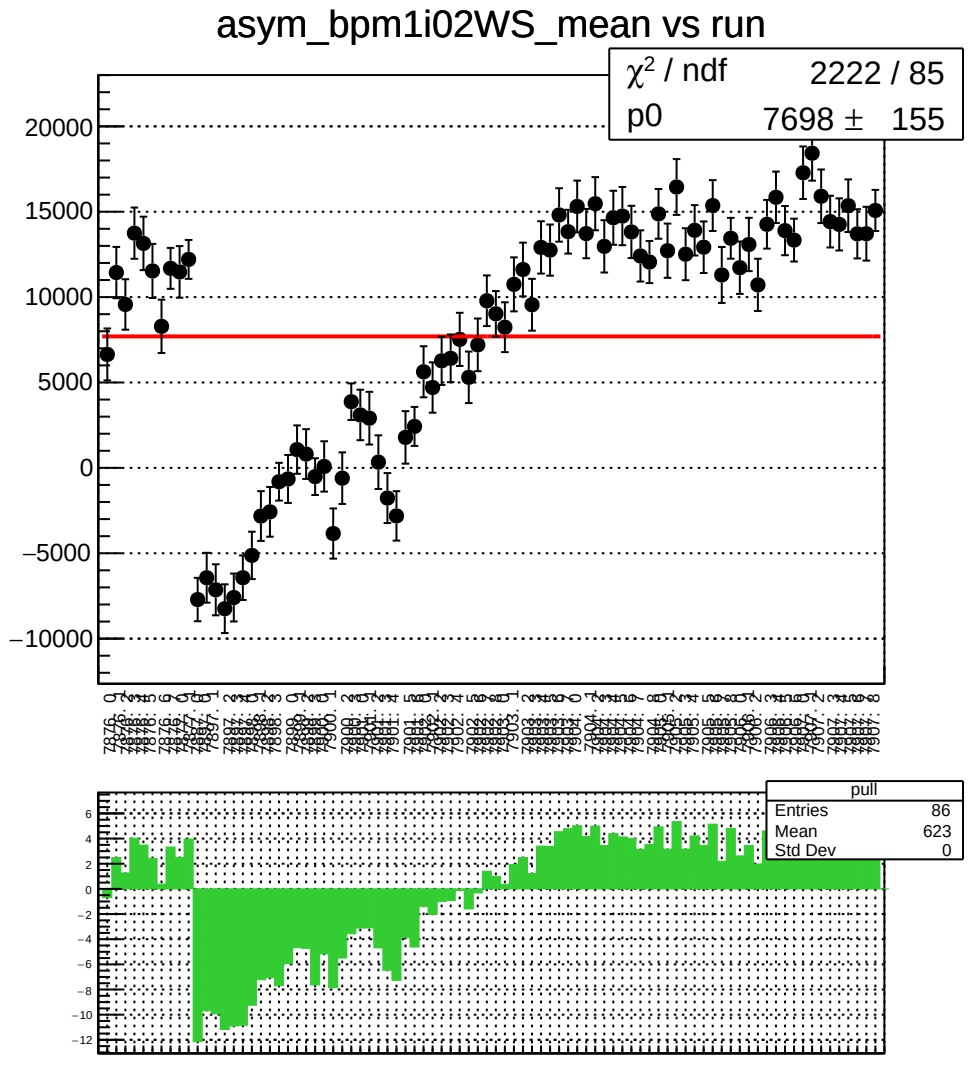

pull1D
Entries 86
Mean 0.9619
Std Dev 3.022

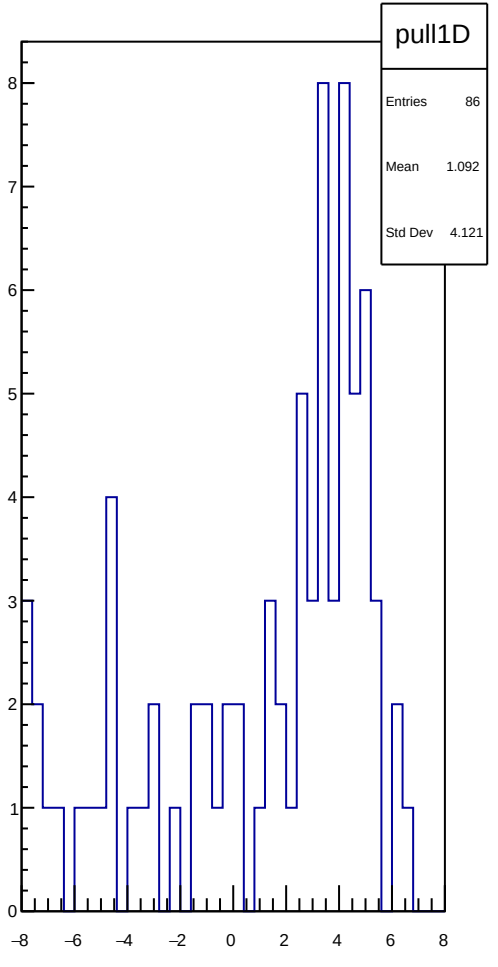

asym_bpm0i05WS_rms vs run
χ² / ndf 3132 / 85
p0 175 ± 0.1348
200
190
180
170
160
150

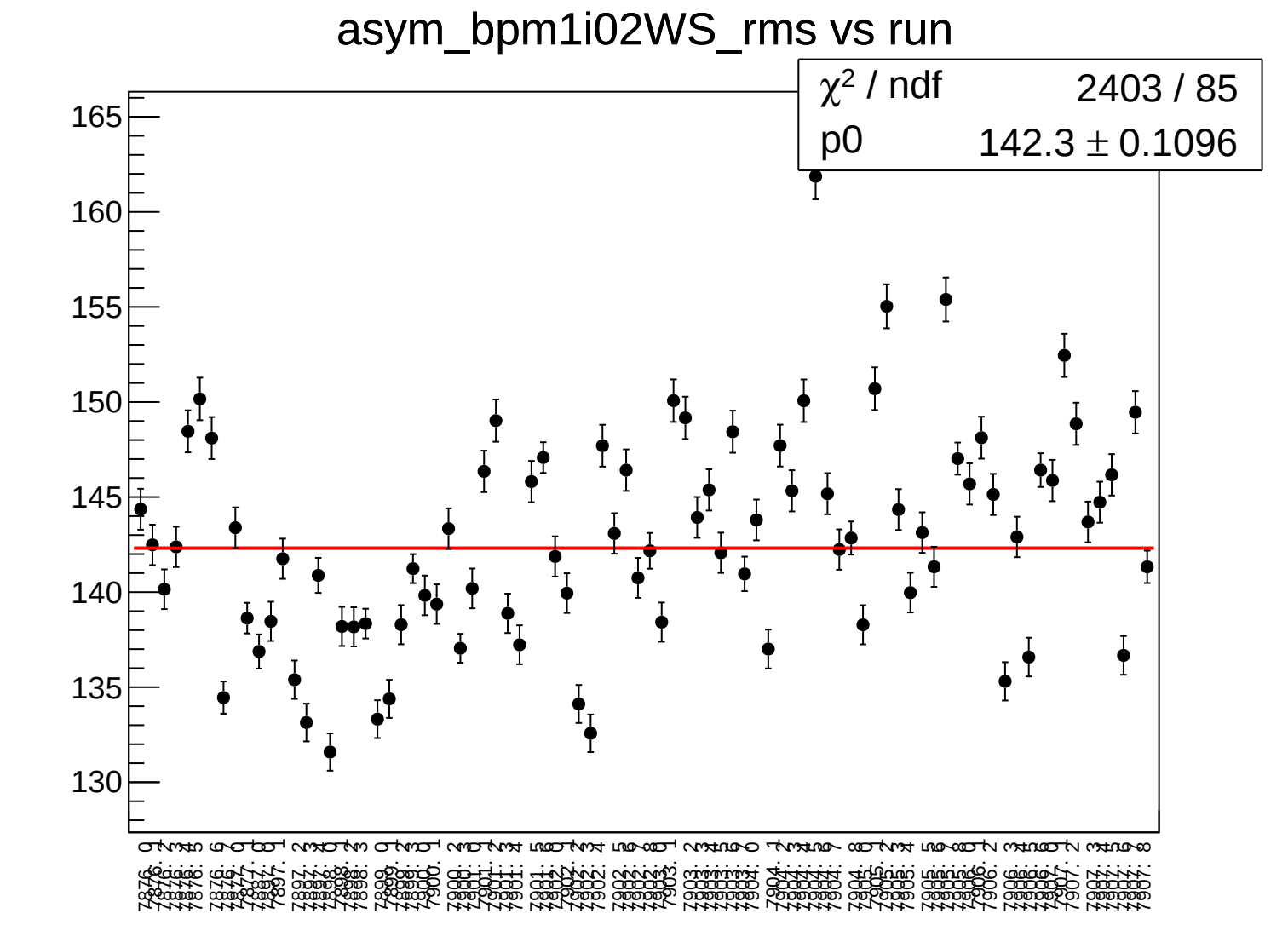

asym_bpm0i07WS_mean vs run
χ² / ndf 72.31 / 85
p0 284.3 ± 1634
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −15.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

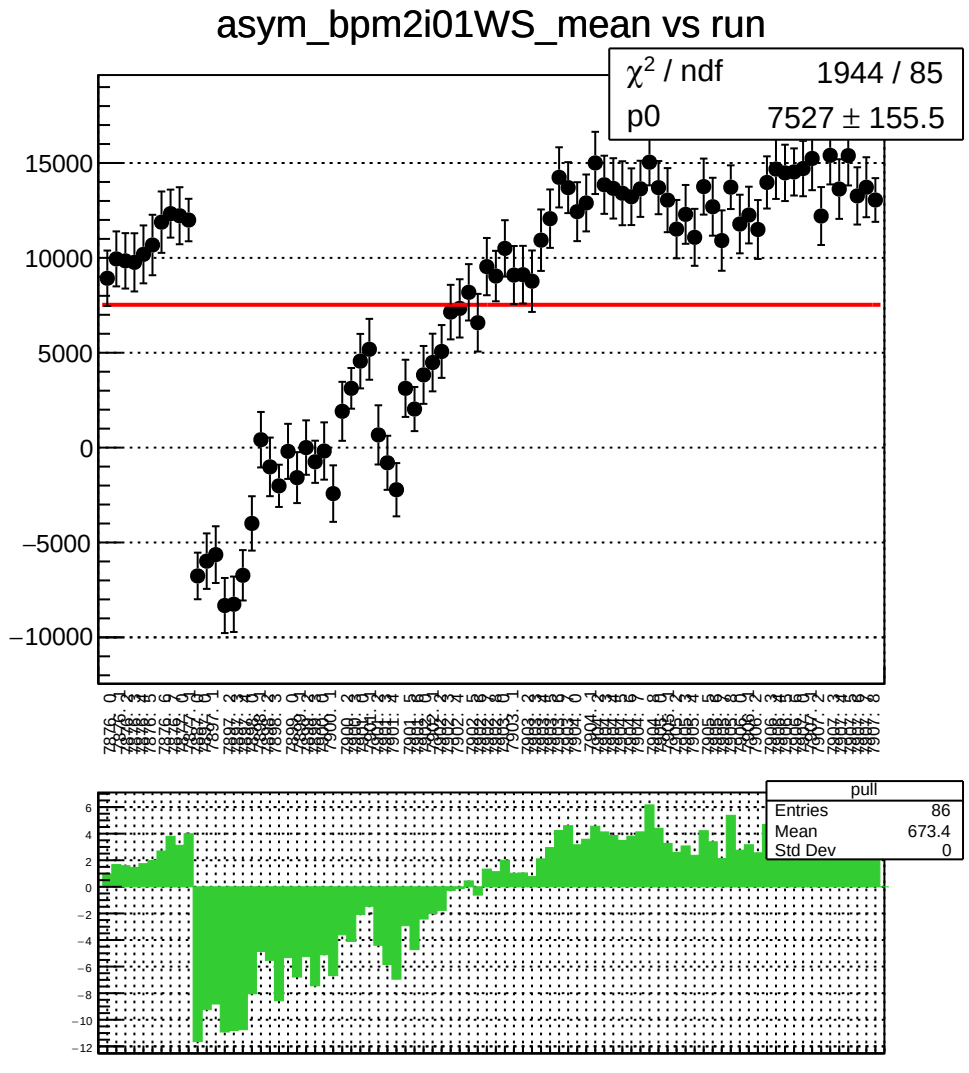

pull1D
Entries 86
Mean −0.01218
Std Dev 0.9169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

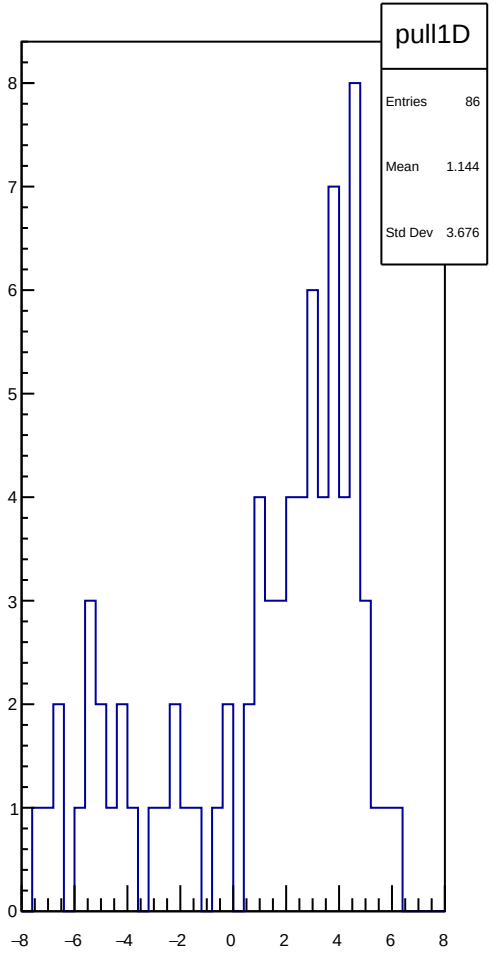

asym_bpm0i07WS_rms vs run
χ² / ndf 1.158e+04 / 85
p0 1496 ± 1.156
1900
1800
1700
1600
1500
1400
1300
1200
1100

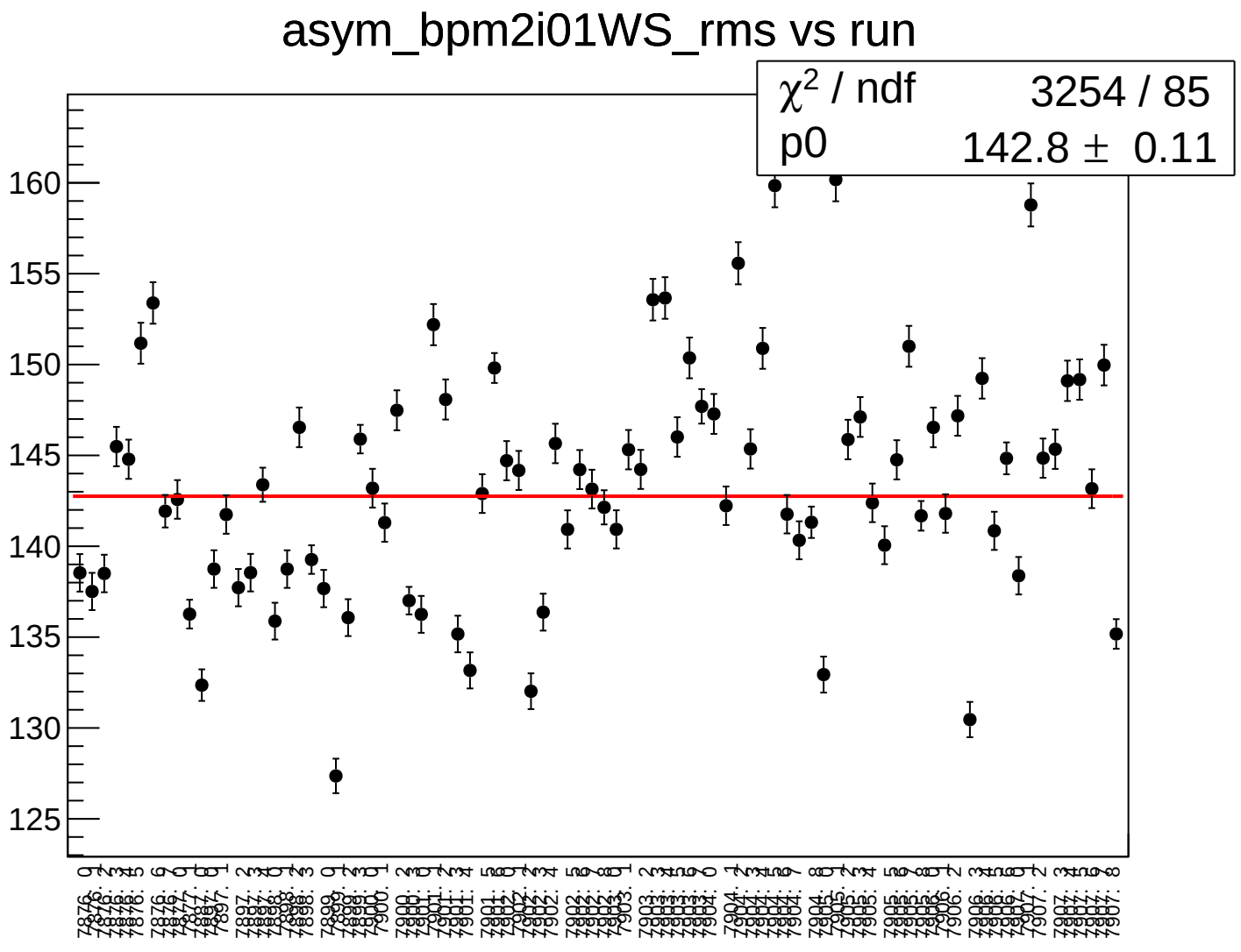

asym_bpm1i02WS_mean vs run
χ² / ndf 2222 / 85
p0 7698 ± 155
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 623
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10
−12

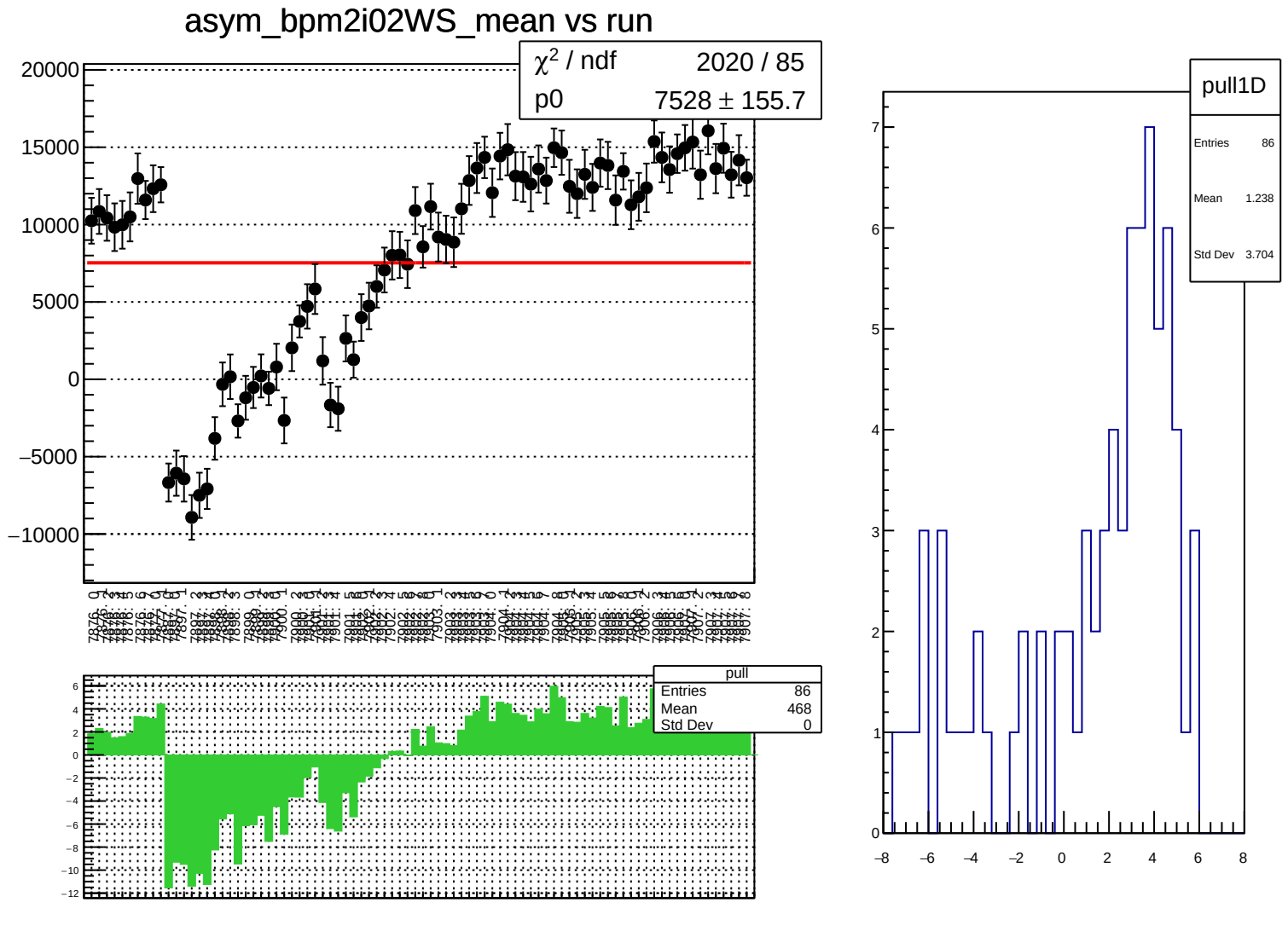

pull1D
Entries 86
Mean 1.092
Std Dev 4.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

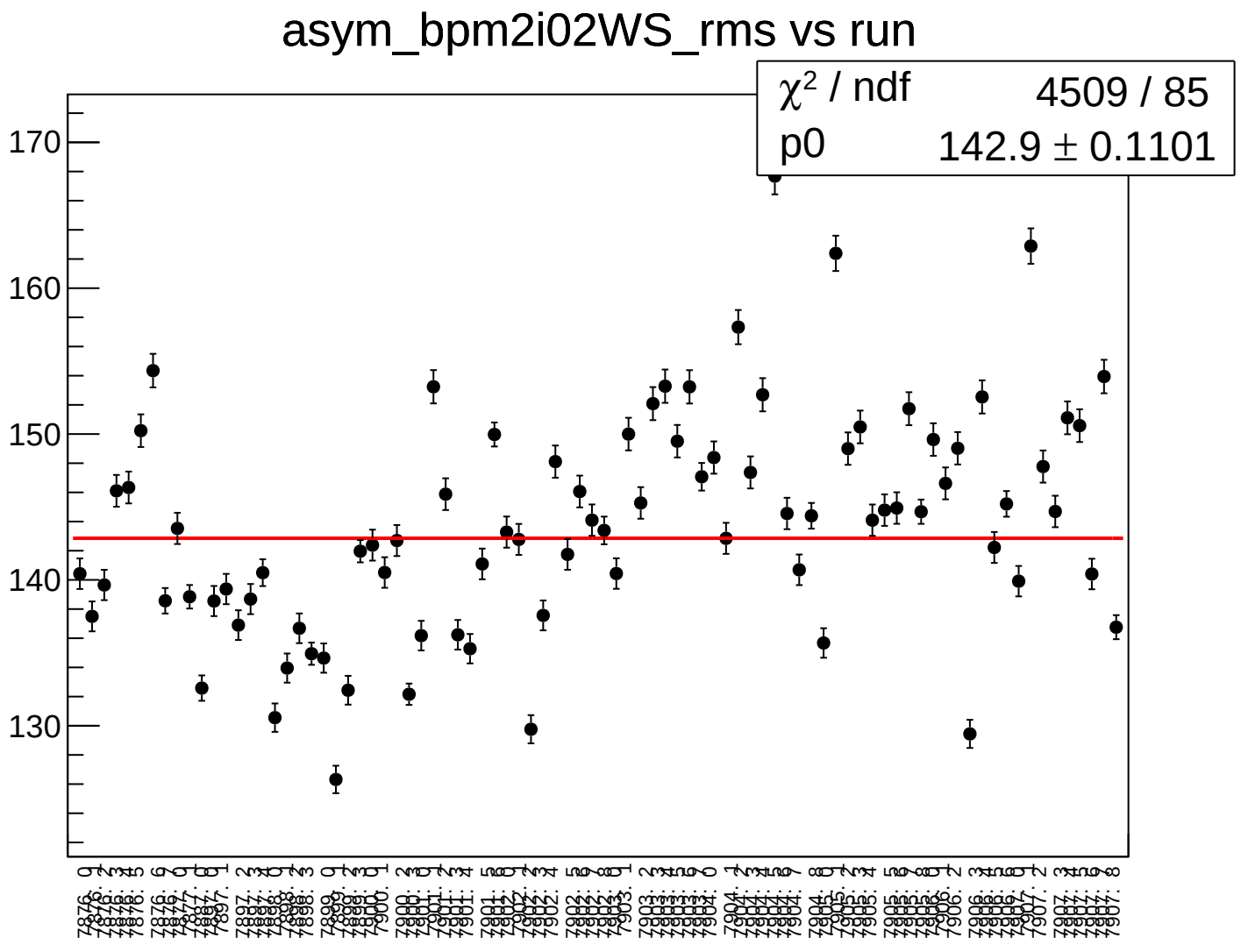

asym_bpm1i02WS_rms vs run
χ^2 / ndf 2403 / 85
p0 142.3 ± 0.1096
165
160
155
150
145
140
135
130

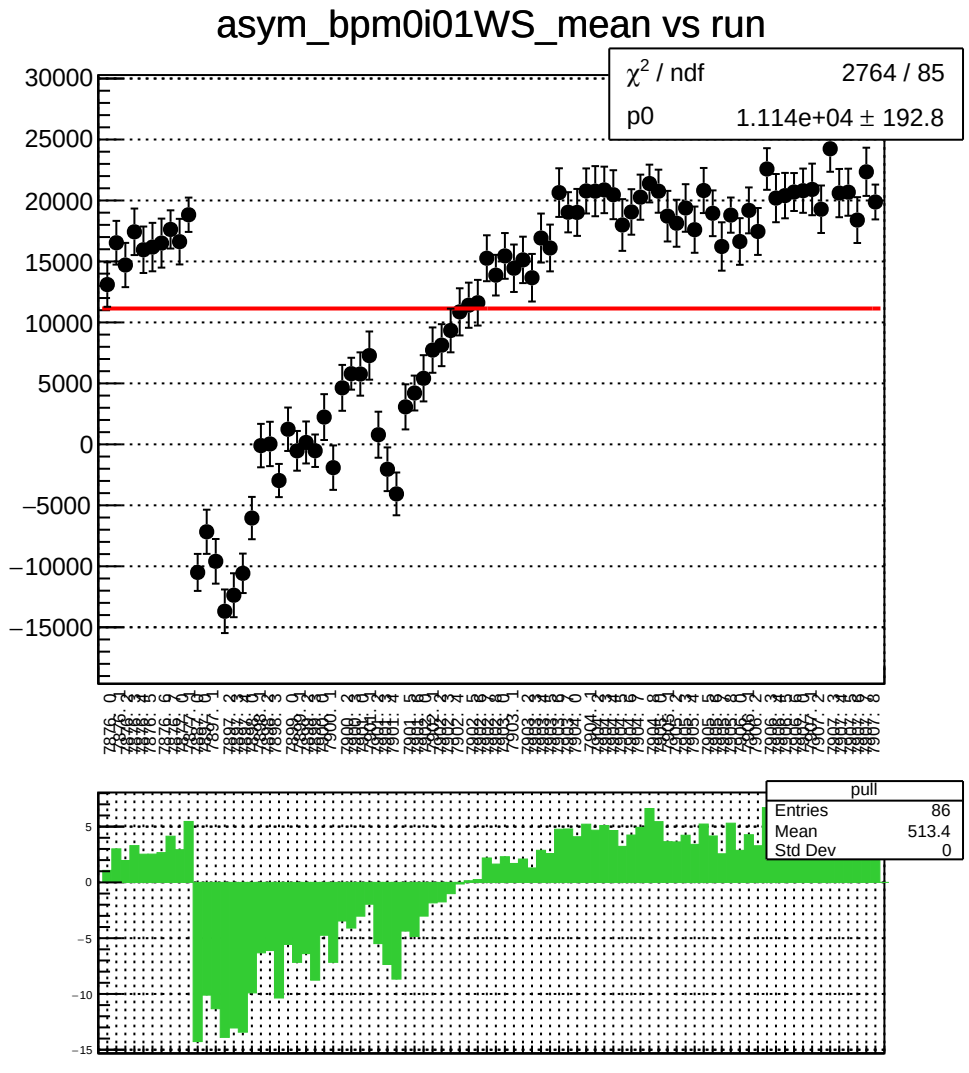

asym_bpm2i01WS_mean vs run
χ² / ndf 1944 / 85
p0 7527 ± 155.5
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 673.4
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10
−12

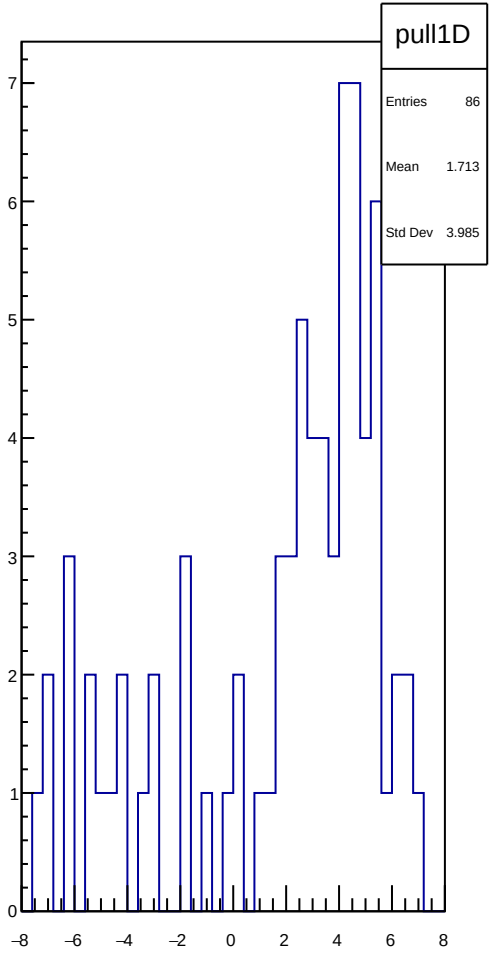

pull1D
Entries 86
Mean 1.144
Std Dev 3.676
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

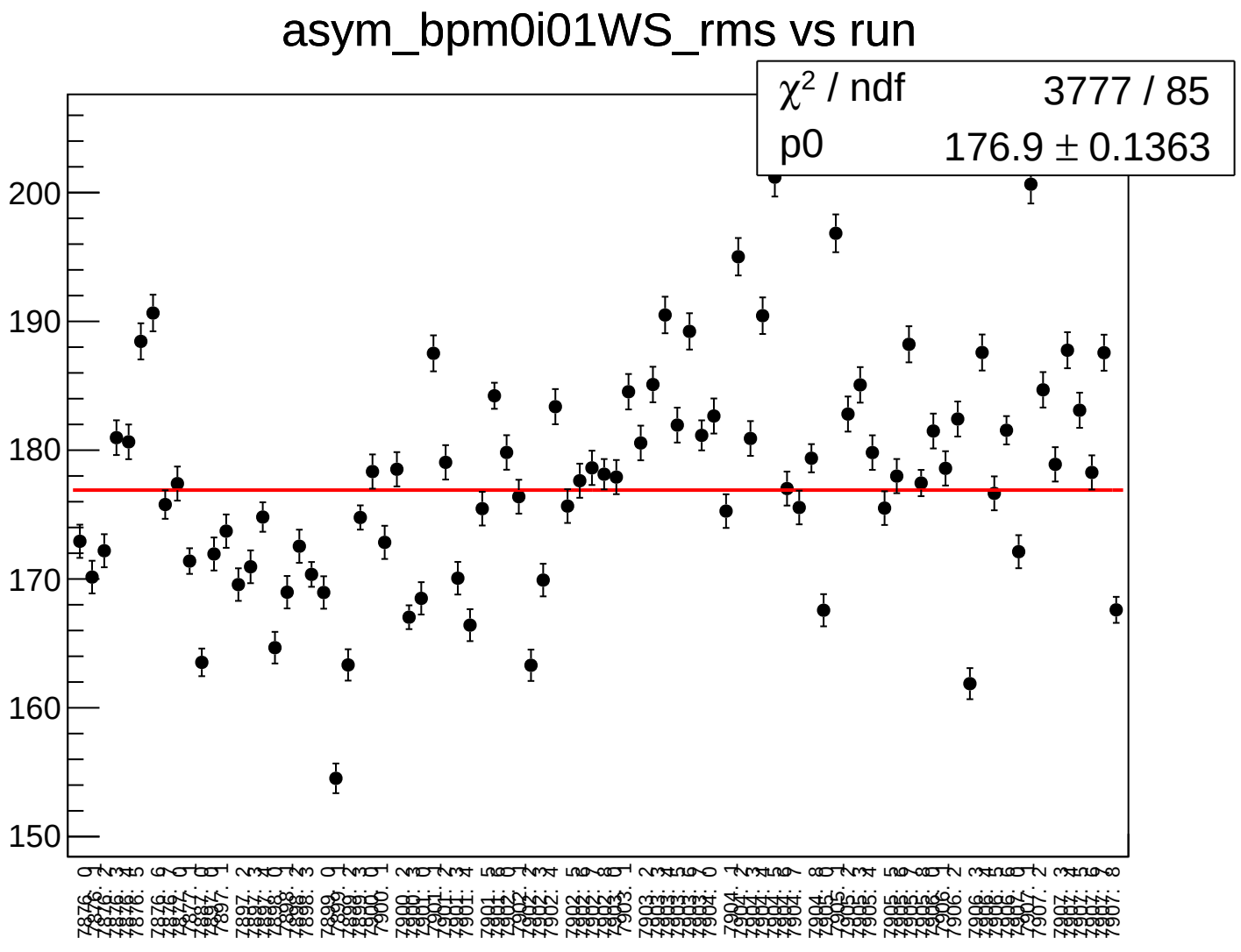

asym_bpm2i01WS_rms vs run
χ^2 / ndf 3254 / 85
p0 142.8 ± 0.11
160
155
150
145
140
135
130
125

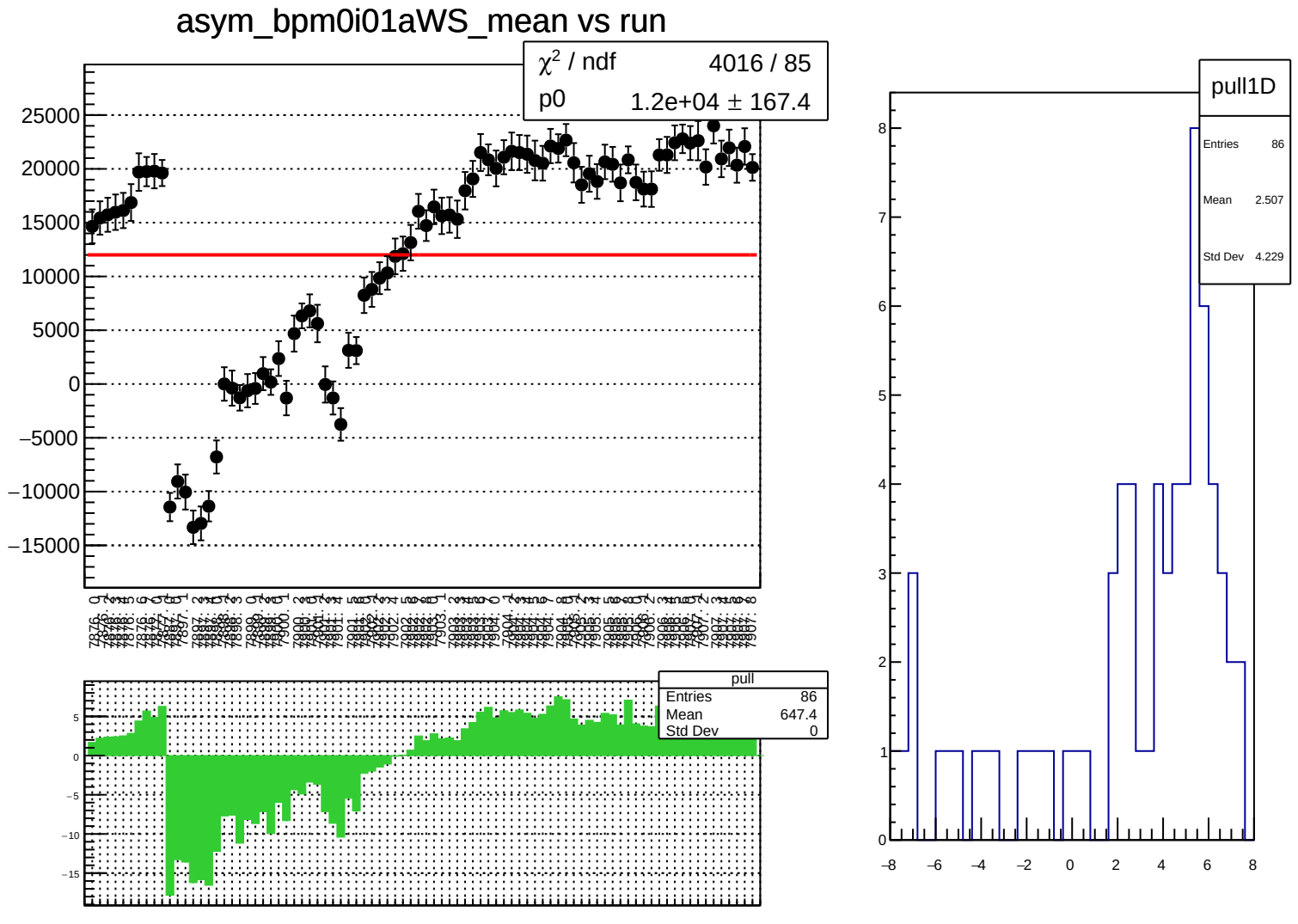

asym_bpm2i02WS_mean vs run
χ^2 / ndf 2020 / 85
p0 7528 ± 155.7
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 468
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 86
Mean 1.238
Std Dev 3.704
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

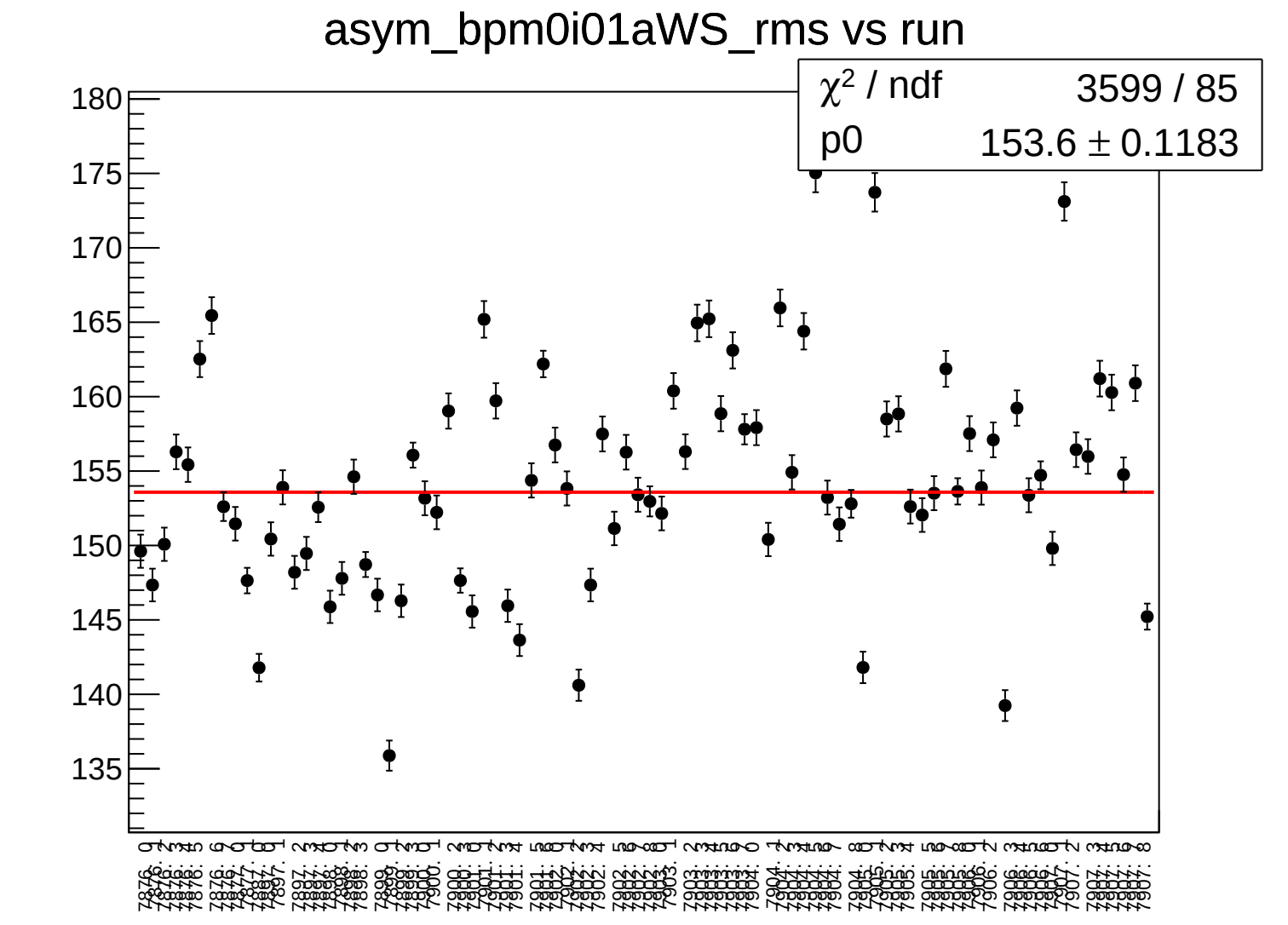

asym_bpm2i02WS_rms vs run
χ² / ndf 4509 / 85
p0 142.9 ± 0.1101
170
160
150
140
130

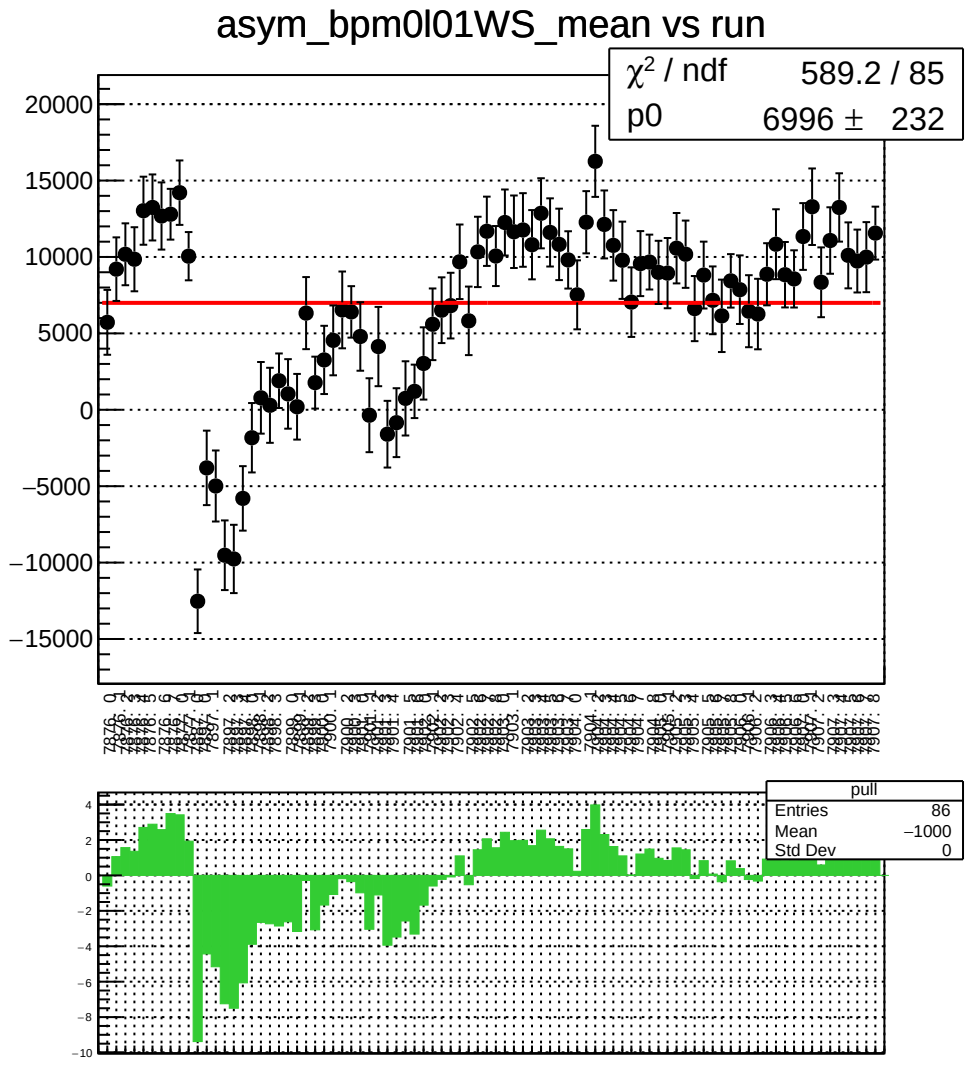

asym_bpm0i01WS_mean vs run
χ² / ndf 2764 / 85
p0 1.114e+04 ± 192.8
pull
Entries 86
Mean 513.4
Std Dev 0

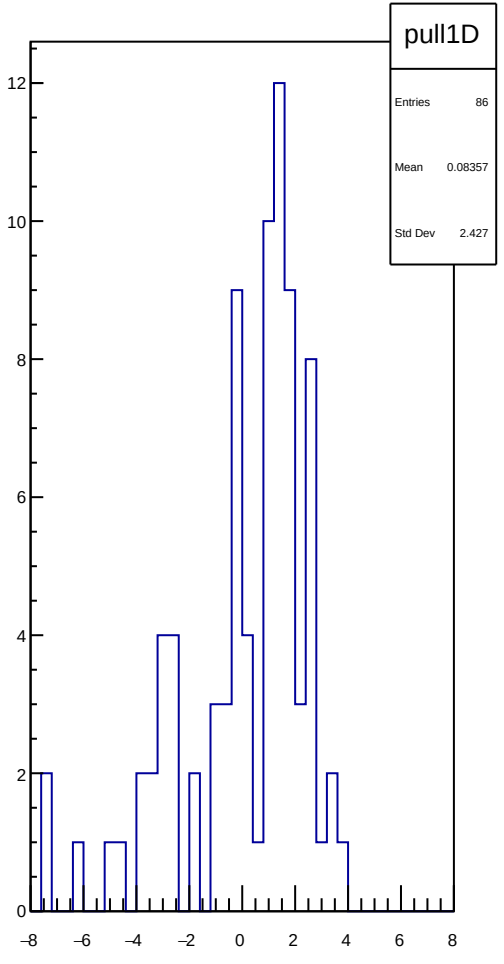

pull1D
Entries 86
Mean 1.713
Std Dev 3.985

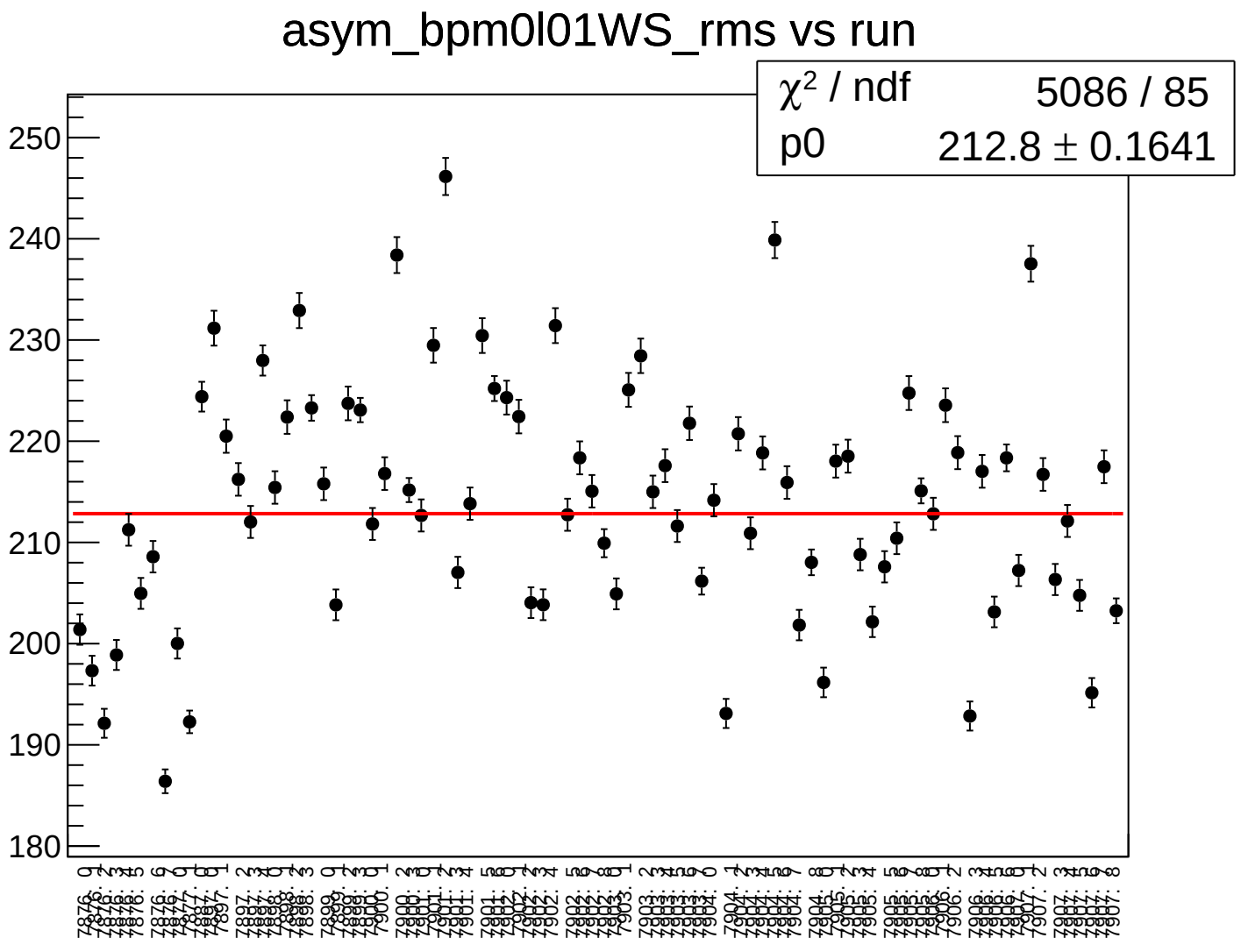

asym_bpm0i01WS_rms vs run
χ^2 / ndf 3777 / 85
p0 176.9 ± 0.1363
200
190
180
170
160
150

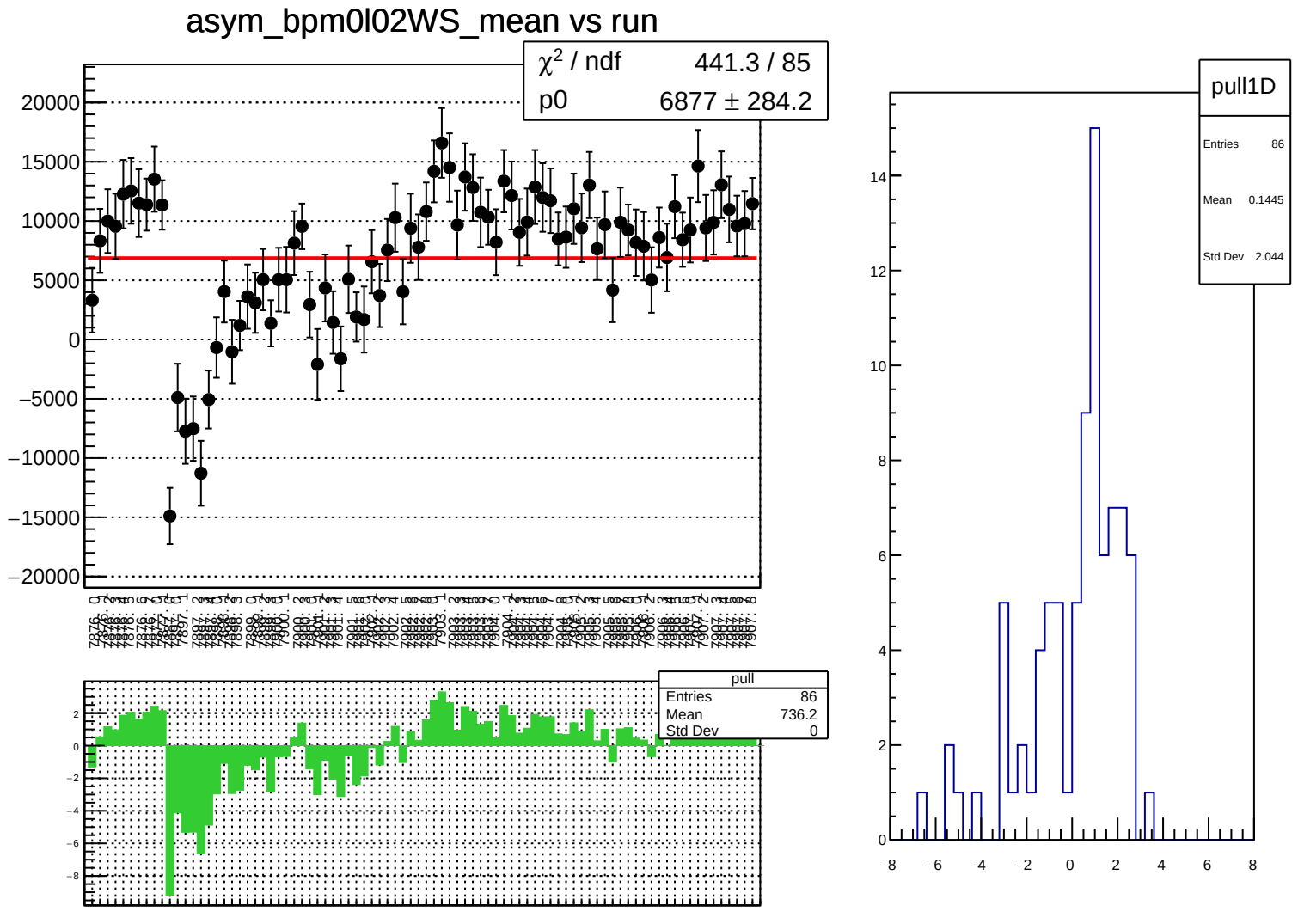

asym_bpm0i01aWS_mean vs run
χ² / ndf 4016 / 85
p0 1.2e+04 ± 167.4
pull
Entries 86
Mean 647.4
Std Dev 0
pull1D
Entries 86
Mean 2.507
Std Dev 4.229

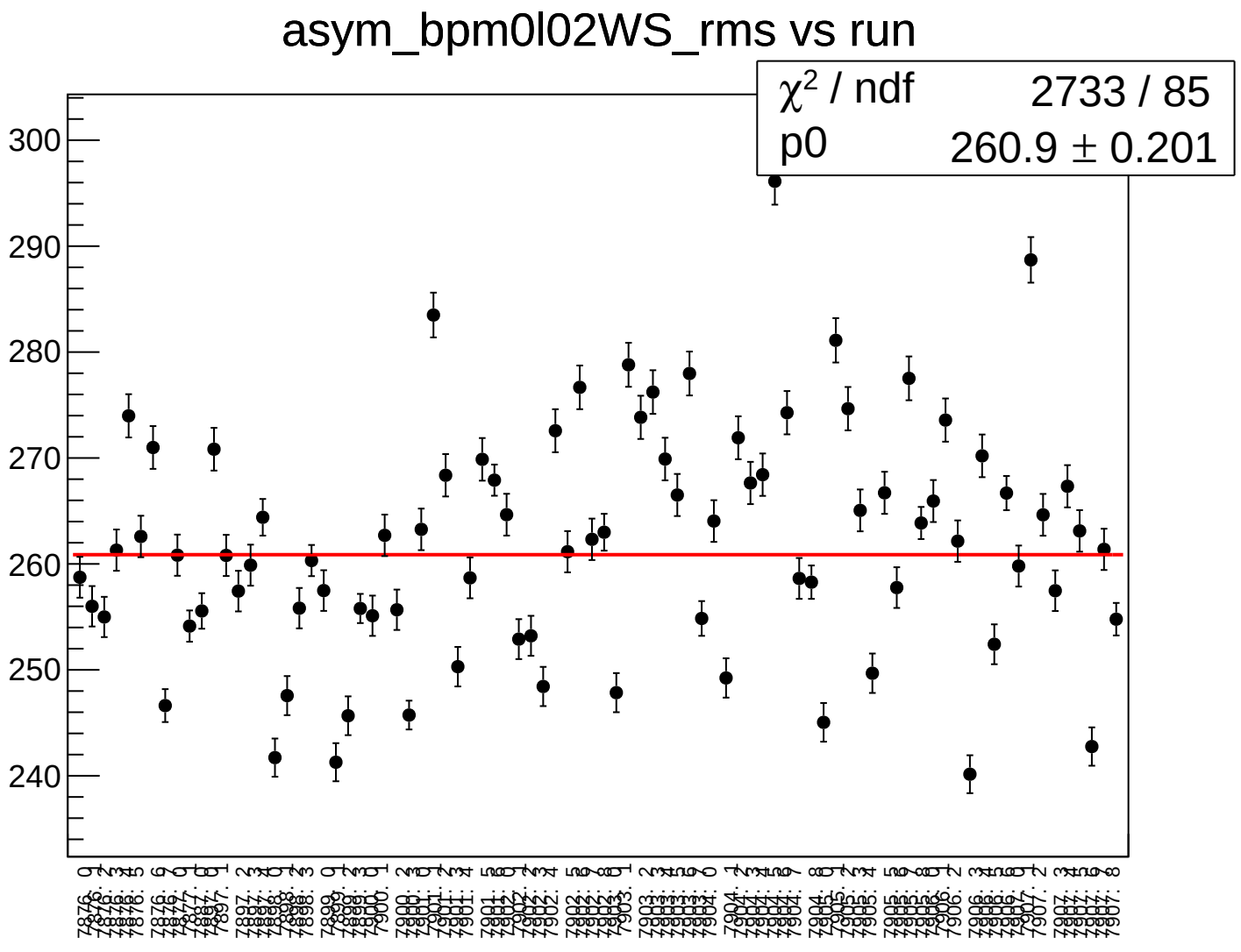

asym_bpm0i01aWS_rms vs run
χ² / ndf 3599 / 85
p0 153.6 ± 0.1183
180
175
170
165
160
155
150
145
140
135

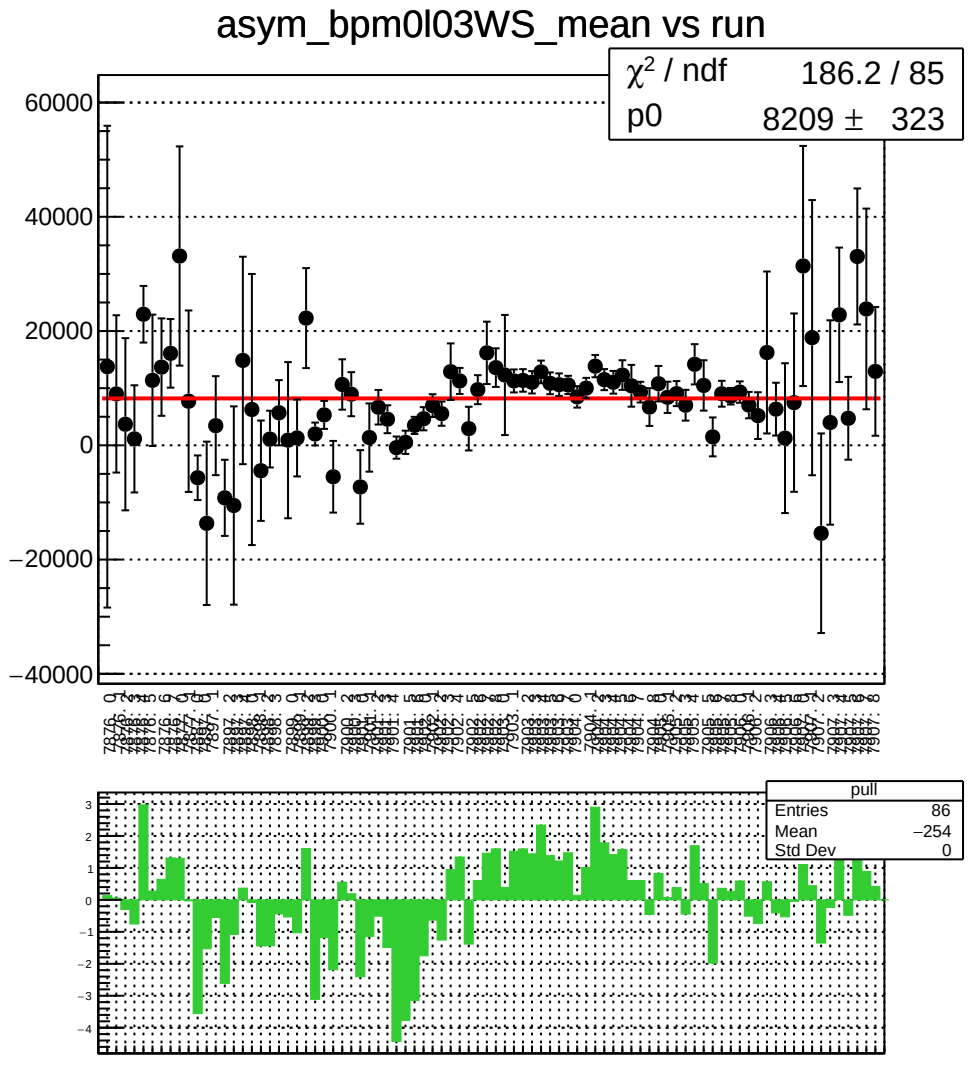

asym_bpm0l01WS_mean vs run
χ² / ndf 589.2 / 85
p0 6996 ± 232
pull
Entries 86
Mean −1000
Std Dev 0

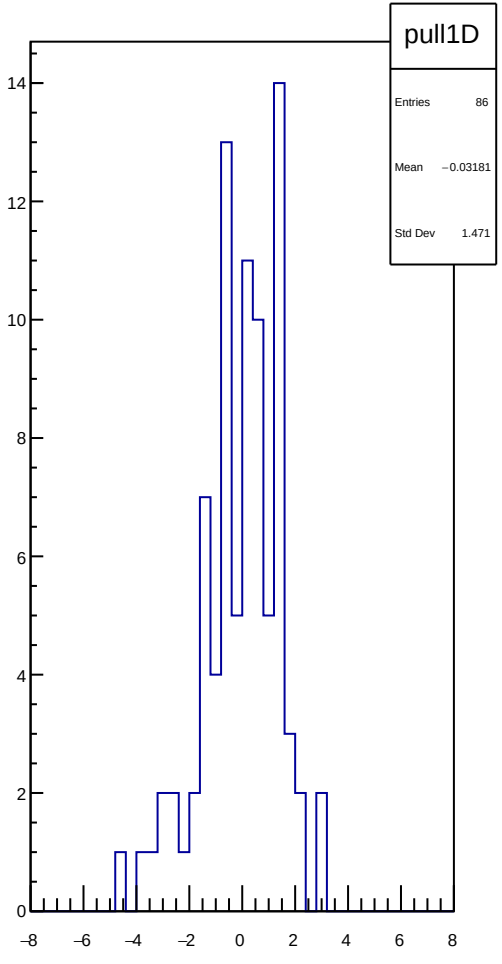

pull1D
Entries 86
Mean 0.08357
Std Dev 2.427

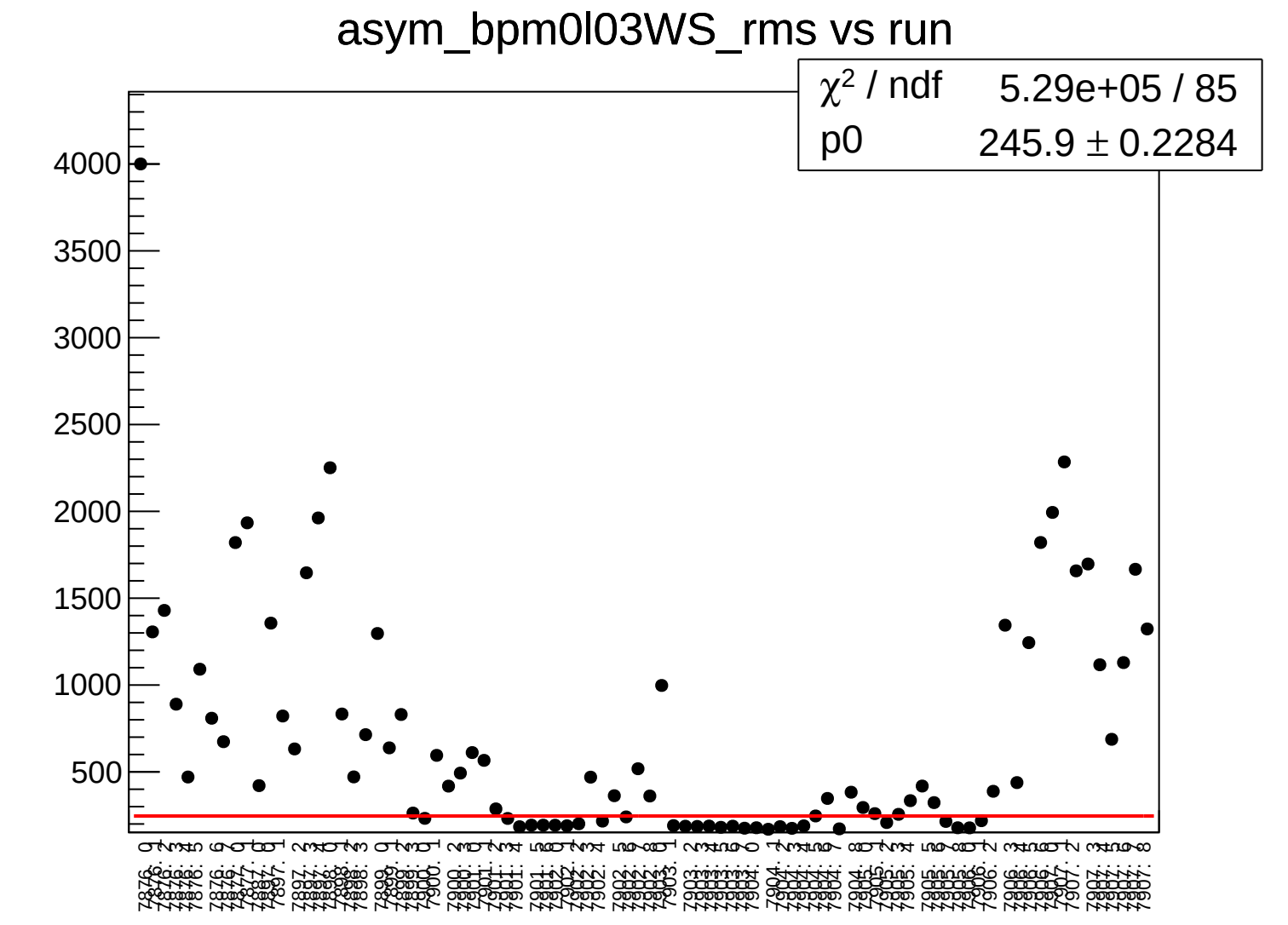

asym_bpm0l01WS_rms vs run
χ² / ndf 5086 / 85
p0 212.8 ± 0.1641
250
240
230
220
210
200
190
180

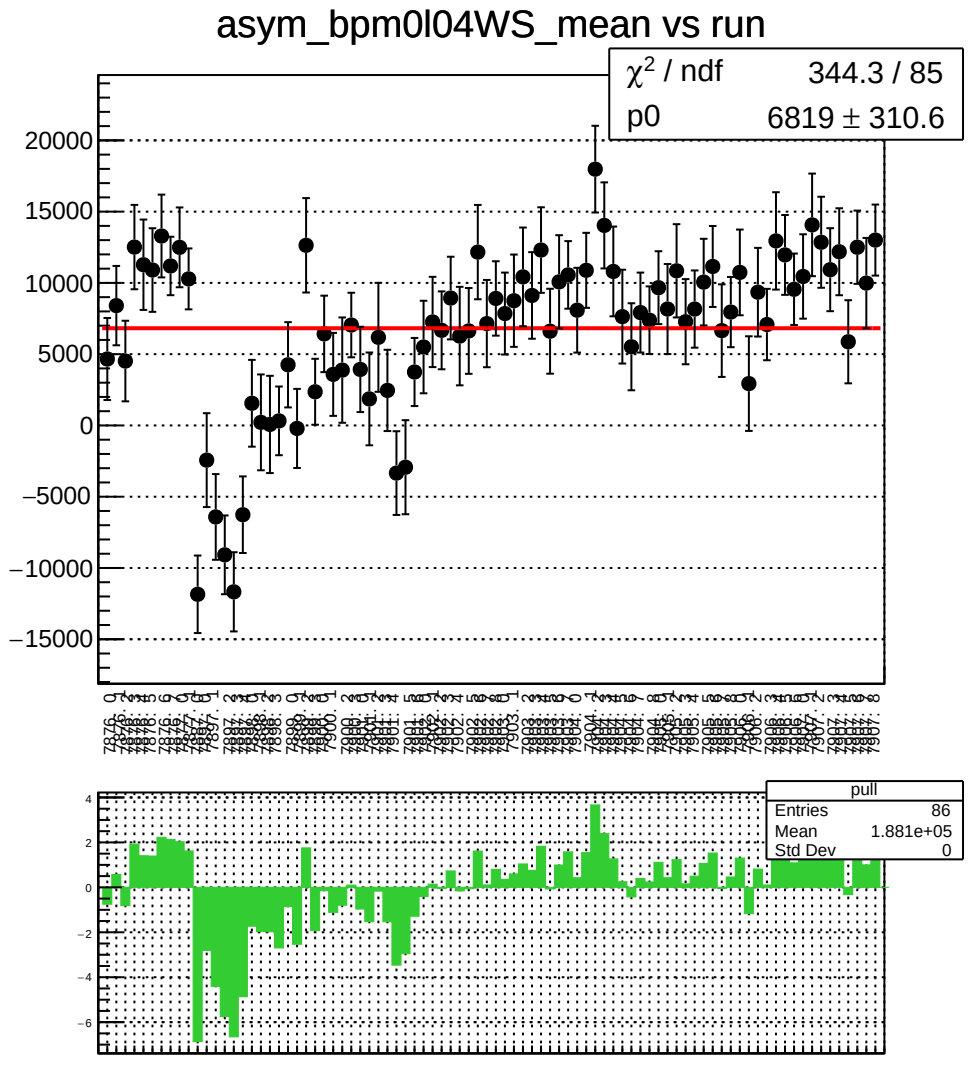

asym_bpm0l02WS_mean vs run
χ² / ndf 441.3 / 85
p0 6877 ± 284.2
pull
Entries 86
Mean 736.2
Std Dev 0
pull1D
Entries 86
Mean 0.1445
Std Dev 2.044

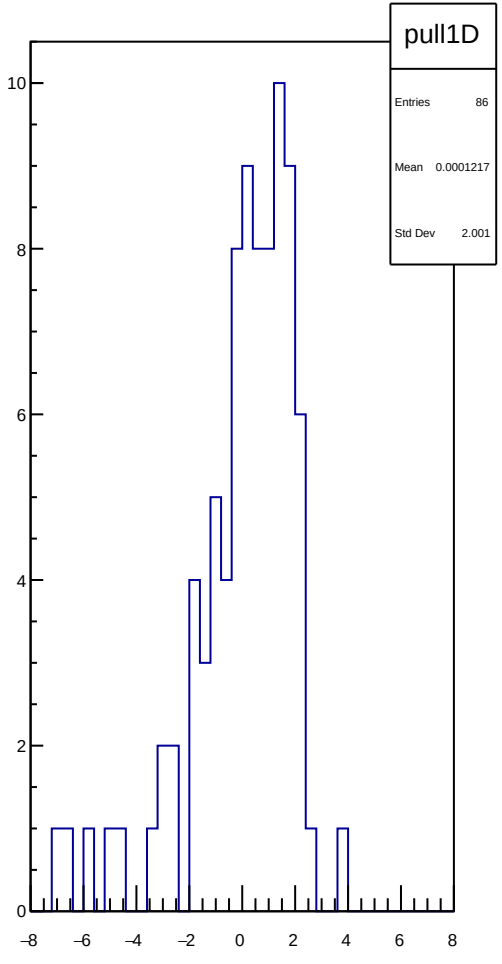

asym_bpm0l02WS_rms vs run
χ² / ndf 2733 / 85
p0 260.9 ± 0.201
300
290
280
270
260
250
240

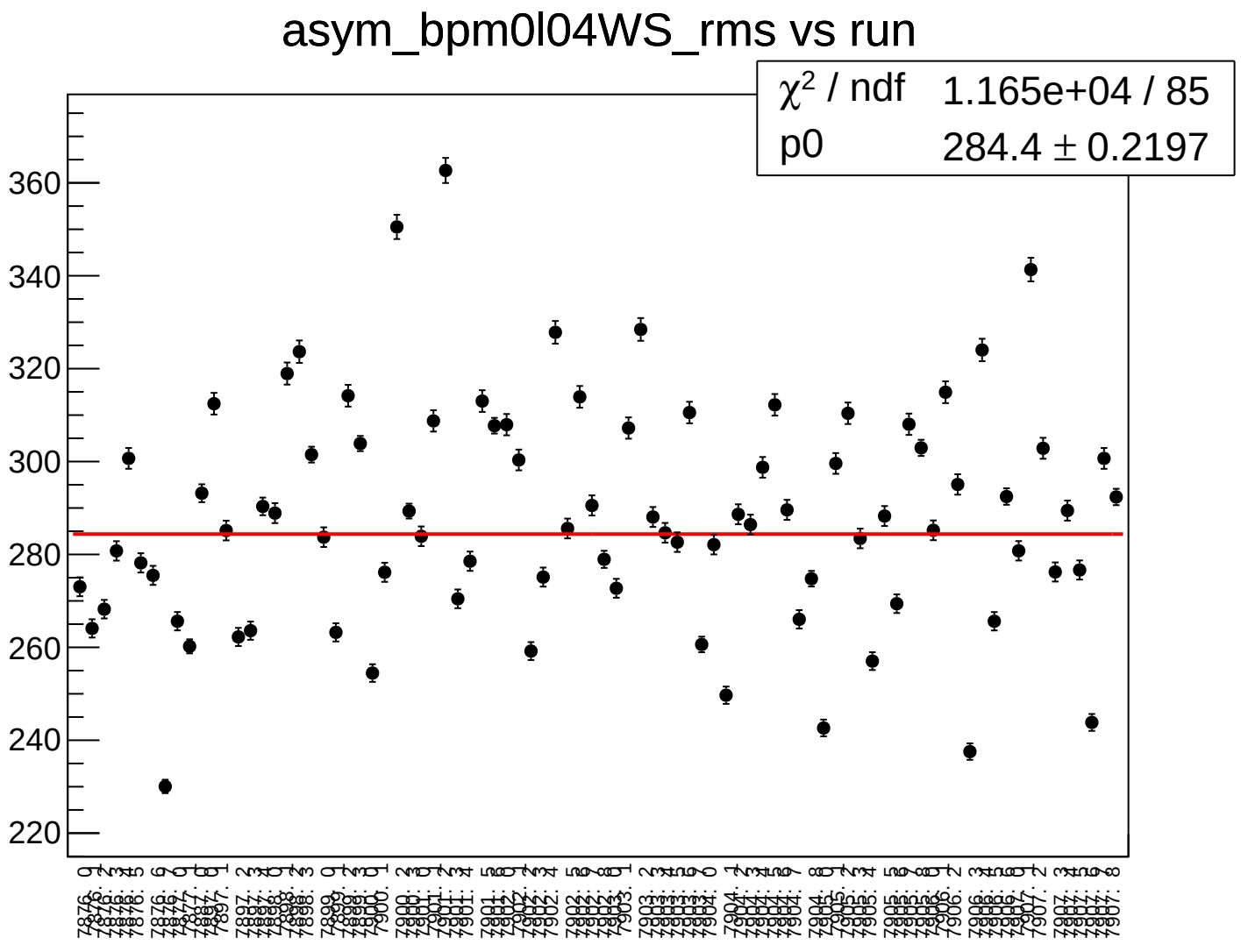

asym_bpm0l03WS_mean vs run
χ² / ndf 186.2 / 85
p0 8209 ± 323
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −254
Std Dev 0
3
2
1
0
−1
−2
−3
−4

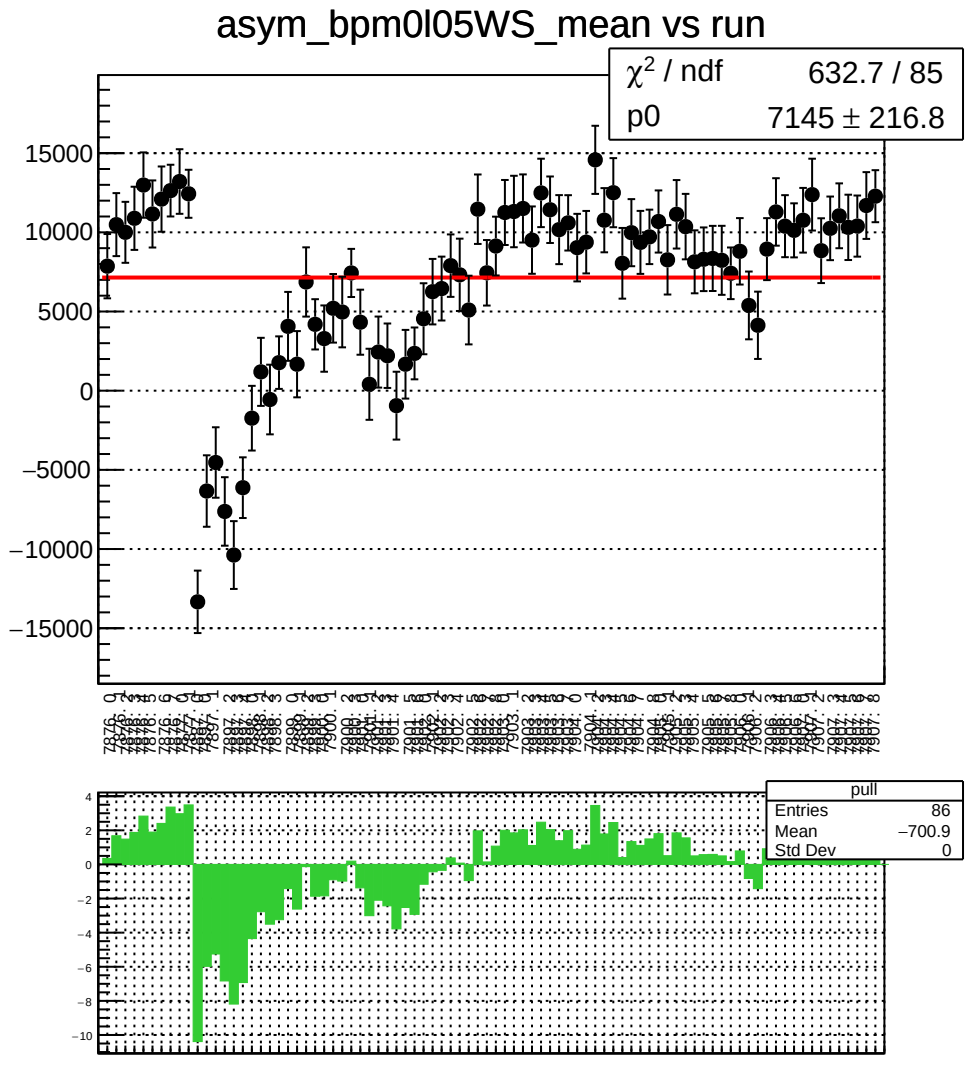

pull1D
Entries 86
Mean −0.03181
Std Dev 1.471
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

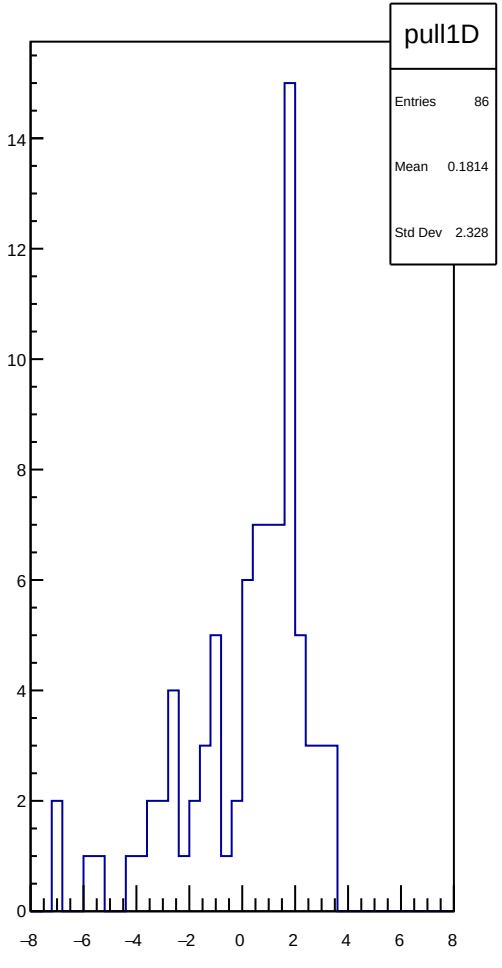

asym_bpm0l03WS_rms vs run
χ^2 / ndf 5.29e+05 / 85
p0 245.9 ± 0.2284
4000
3500
3000
2500
2000
1500
1000
500

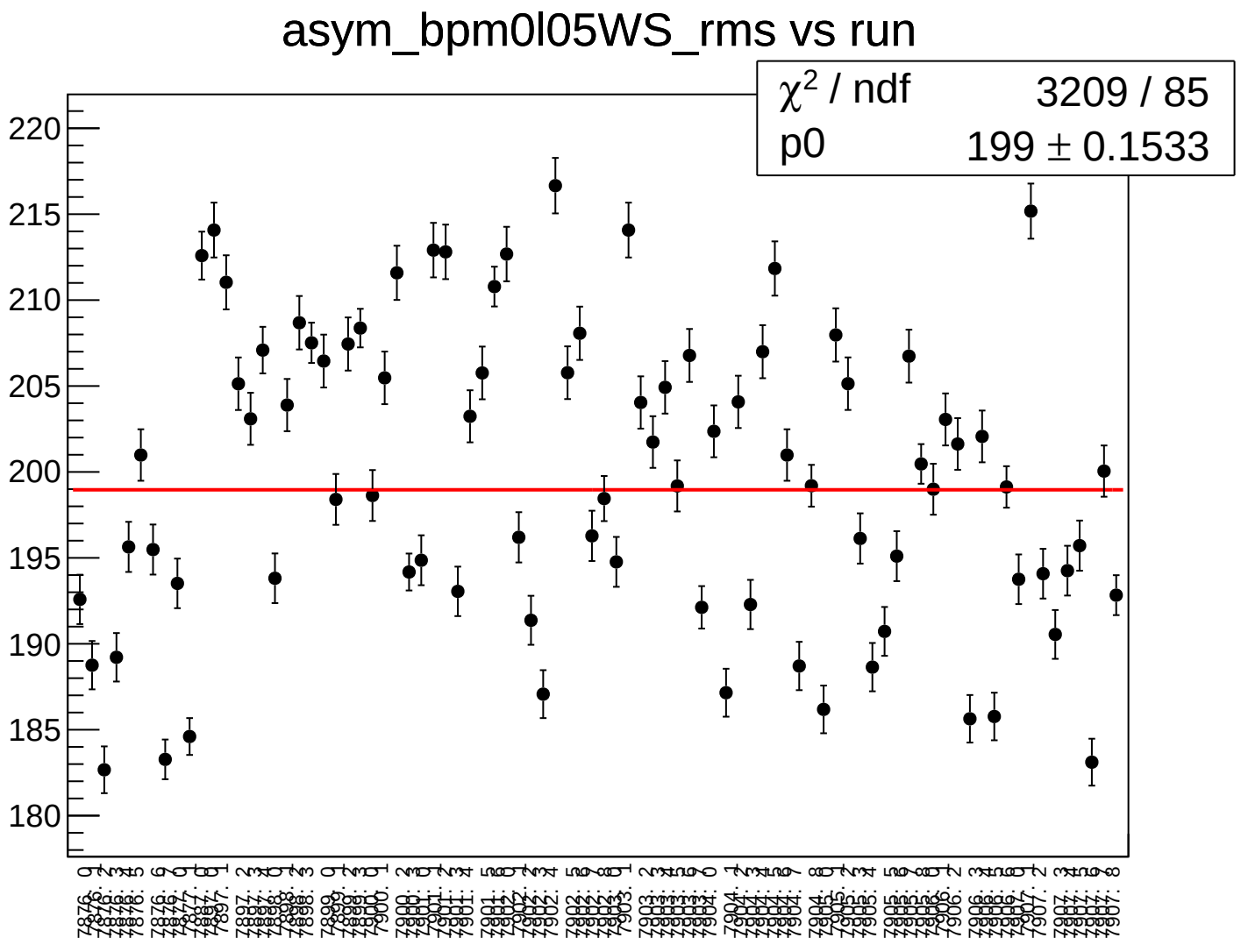

asym_bpm0l04WS_mean vs run
χ² / ndf 344.3 / 85
p0 6819 ± 310.6
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 1.881e+05
Std Dev 0
4
2
0
−2
−4
−6

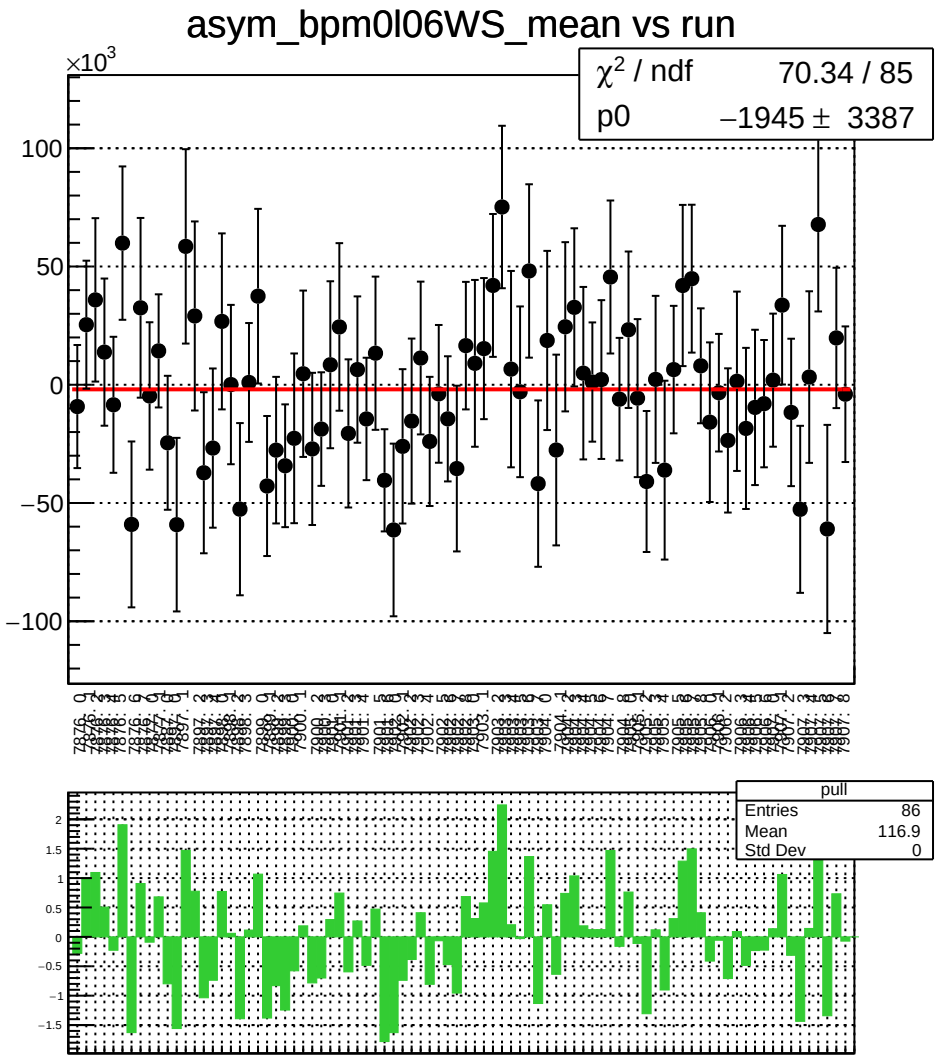

pull1D
Entries 86
Mean 0.0001217
Std Dev 2.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

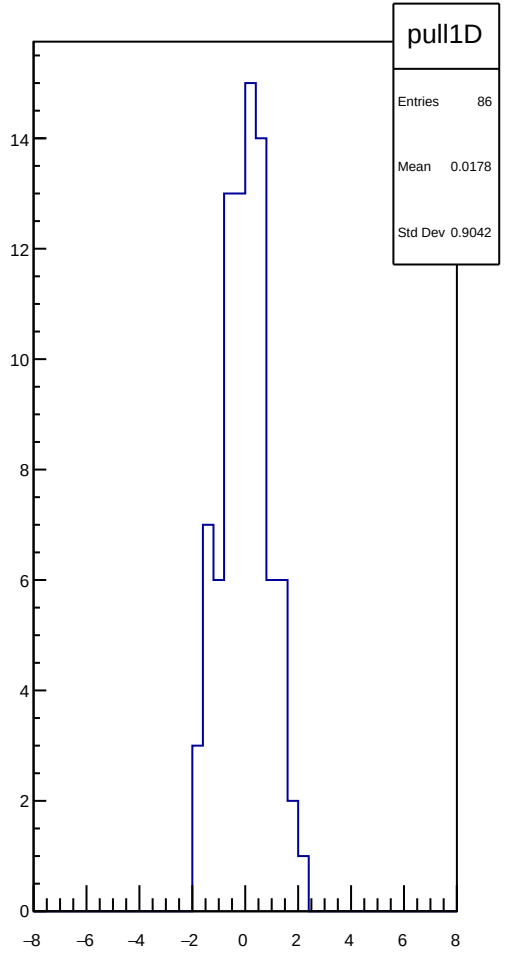

asym_bpm0l04WS_rms vs run
χ² / ndf 1.165e+04 / 85
p0 284.4 ± 0.2197
360
340
320
300
280
260
240
220

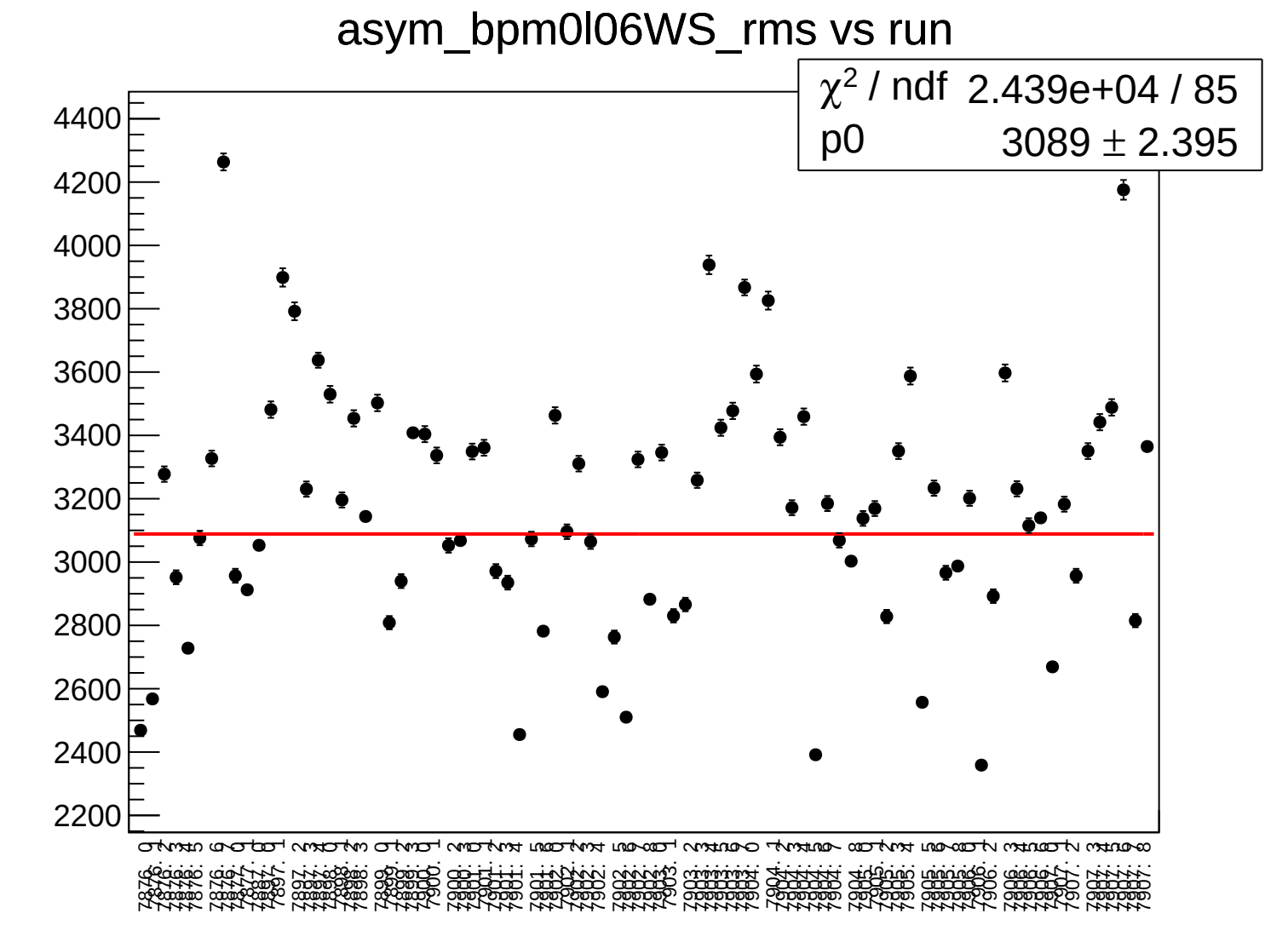

asym_bpm0l05WS_mean vs run
χ² / ndf 632.7 / 85
p0 7145 ± 216.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −700.9
Std Dev 0
4
2
0
−2
−4
−6
−8
−10

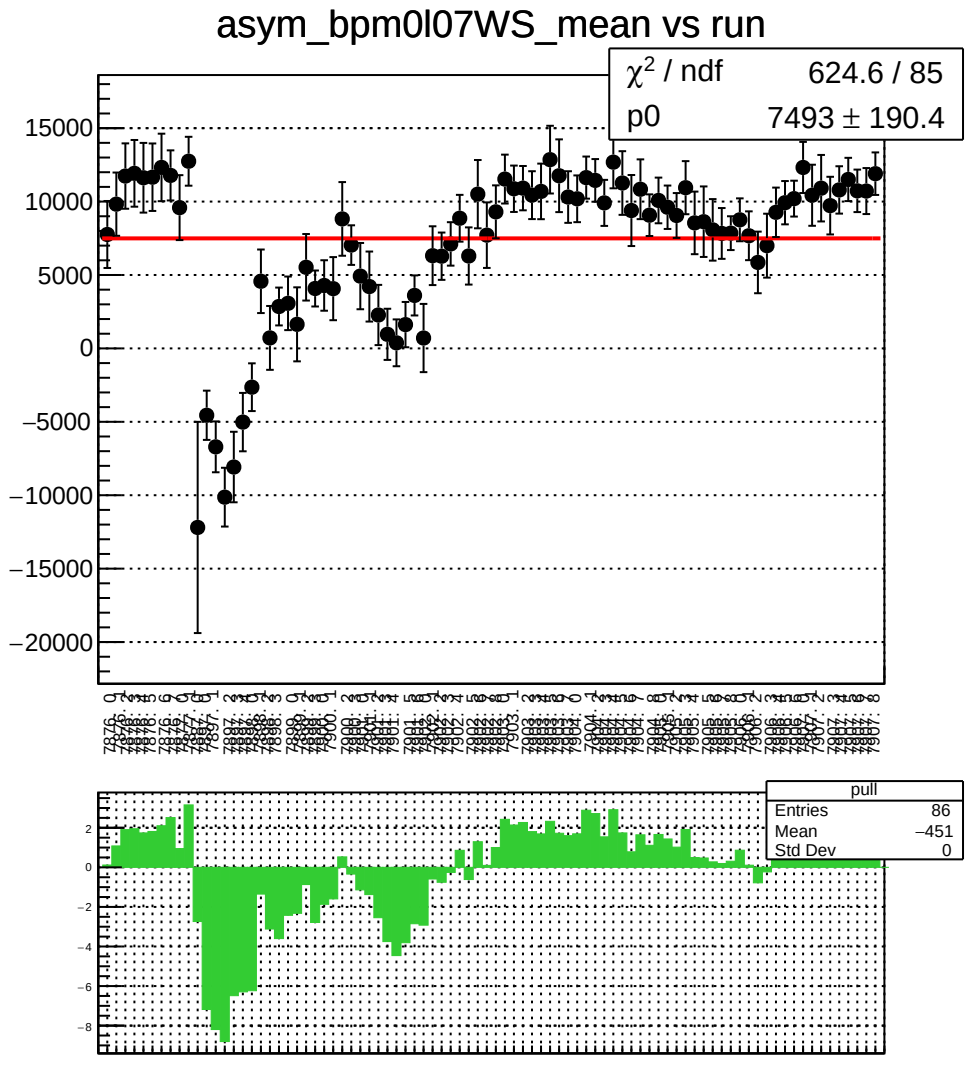

pull1D
Entries 86
Mean 0.1814
Std Dev 2.328
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

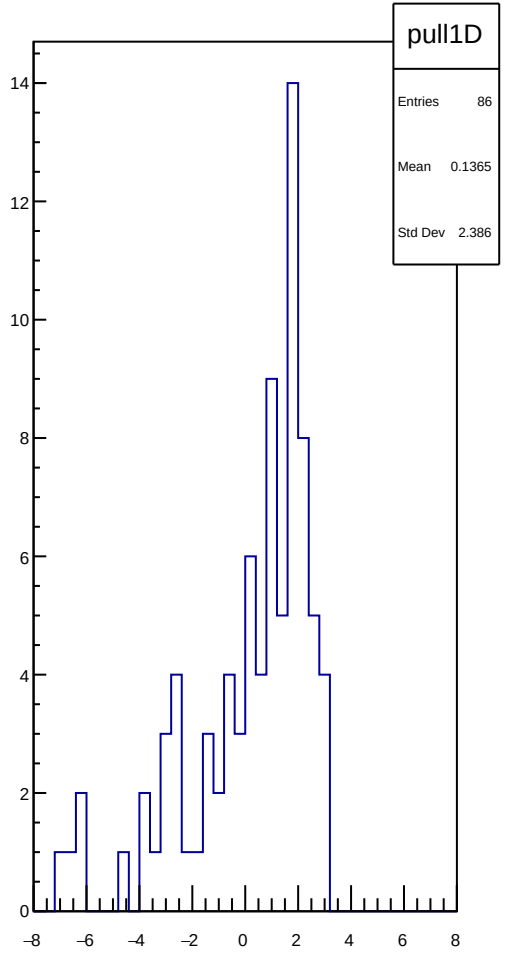

asym_bpm0l05WS_rms vs run
χ^2 / ndf 3209 / 85
p0 199 ± 0.1533
220
215
210
205
200
195
190
185
180

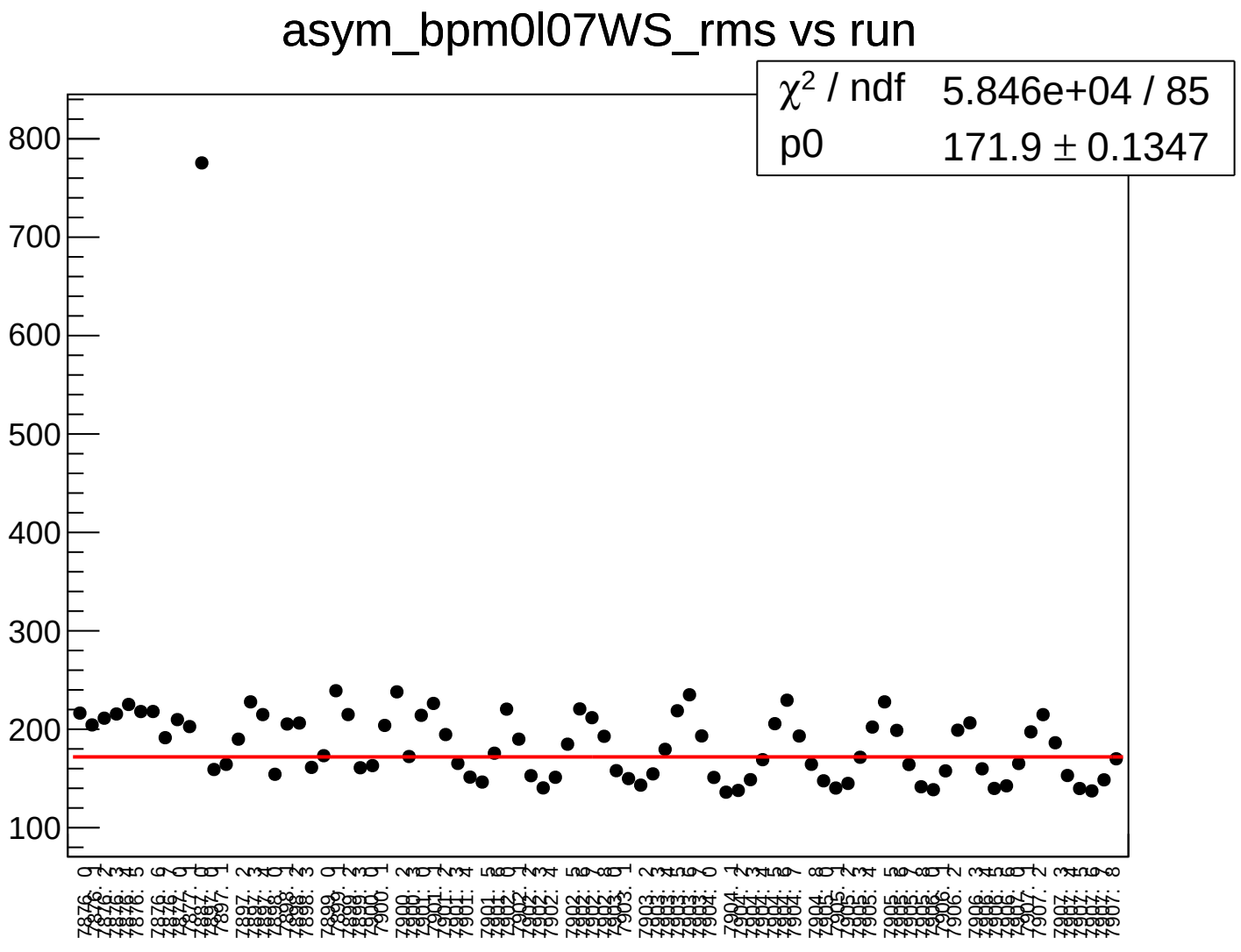

asym_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 70.34 / 85
p0 −1945 ± 3387
100
50
0
−50
−100
pull
Entries 86
Mean 116.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

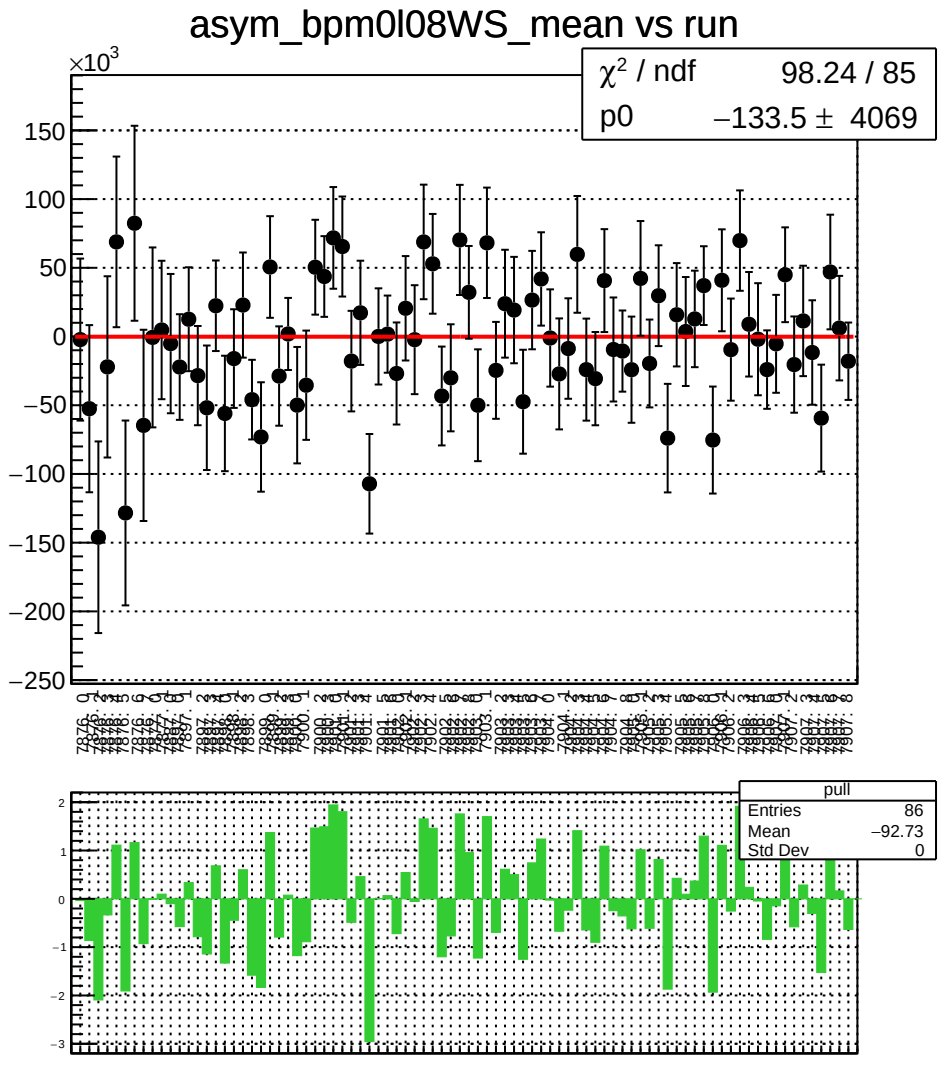

pull1D
Entries 86
Mean 0.0178
Std Dev 0.9042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

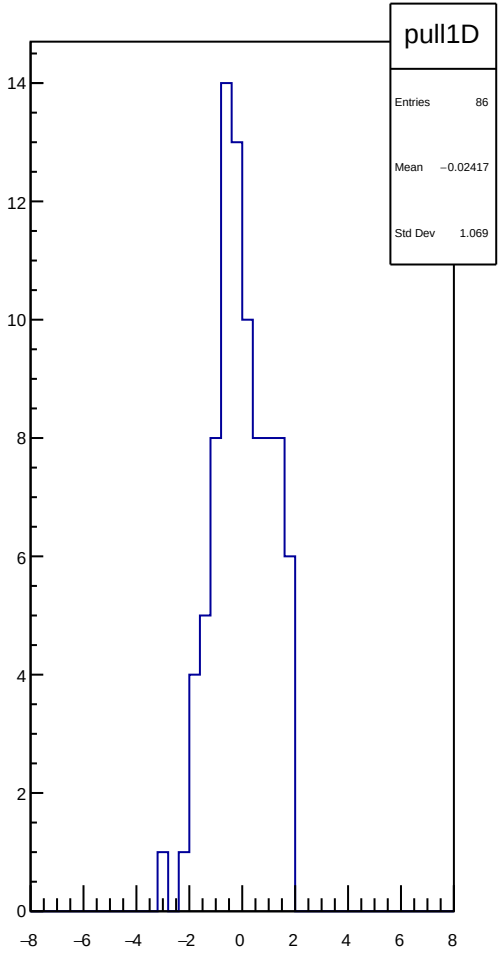

asym_bpm0l06WS_rms vs run
χ^2 / ndf 2.439e+04 / 85
p0 3089 ± 2.395
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

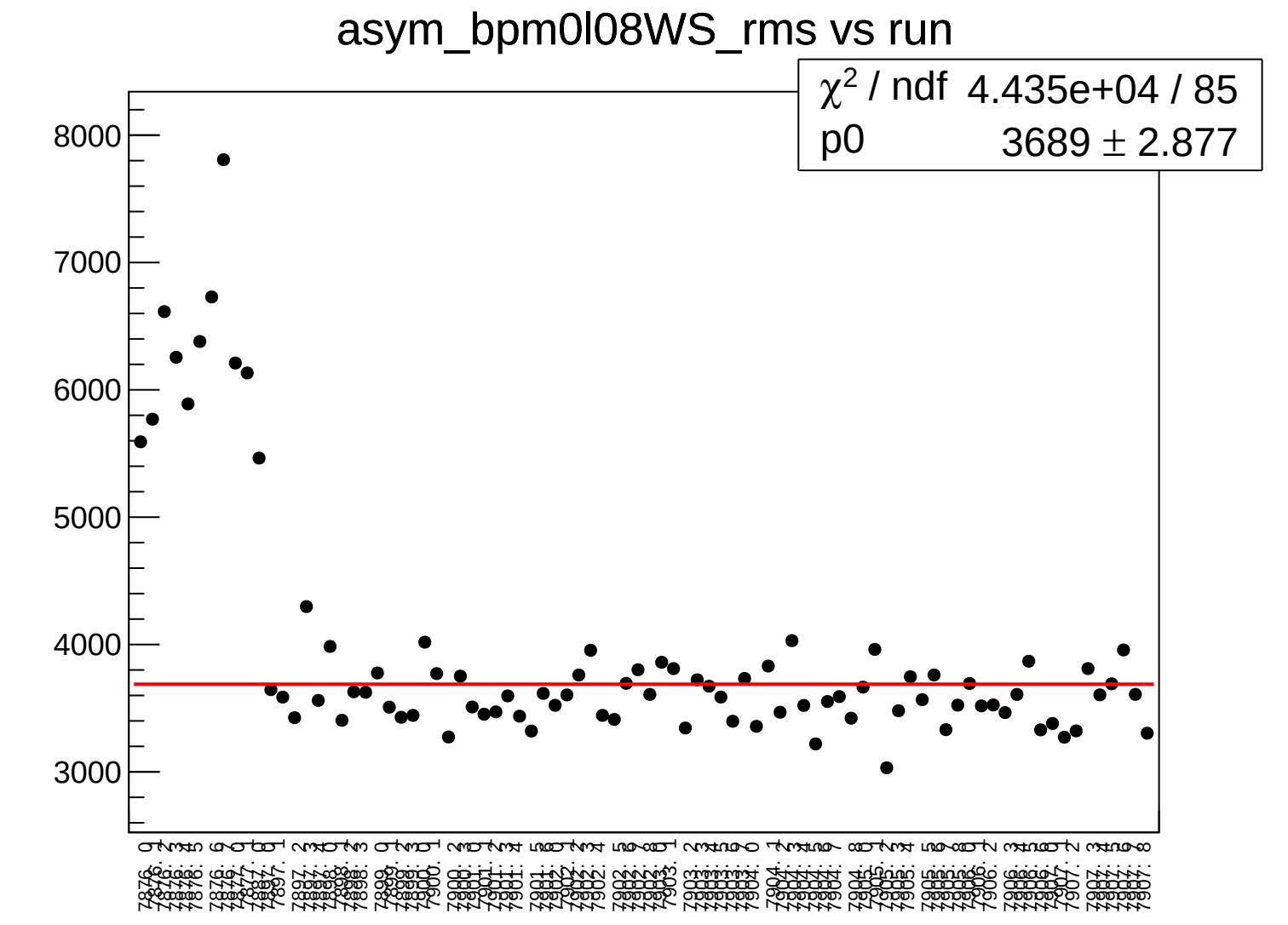

asym_bpm0l07WS_mean vs run
χ² / ndf 624.6 / 85
p0 7493 ± 190.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −451
Std Dev 0
2
0
−2
−4
−6
−8

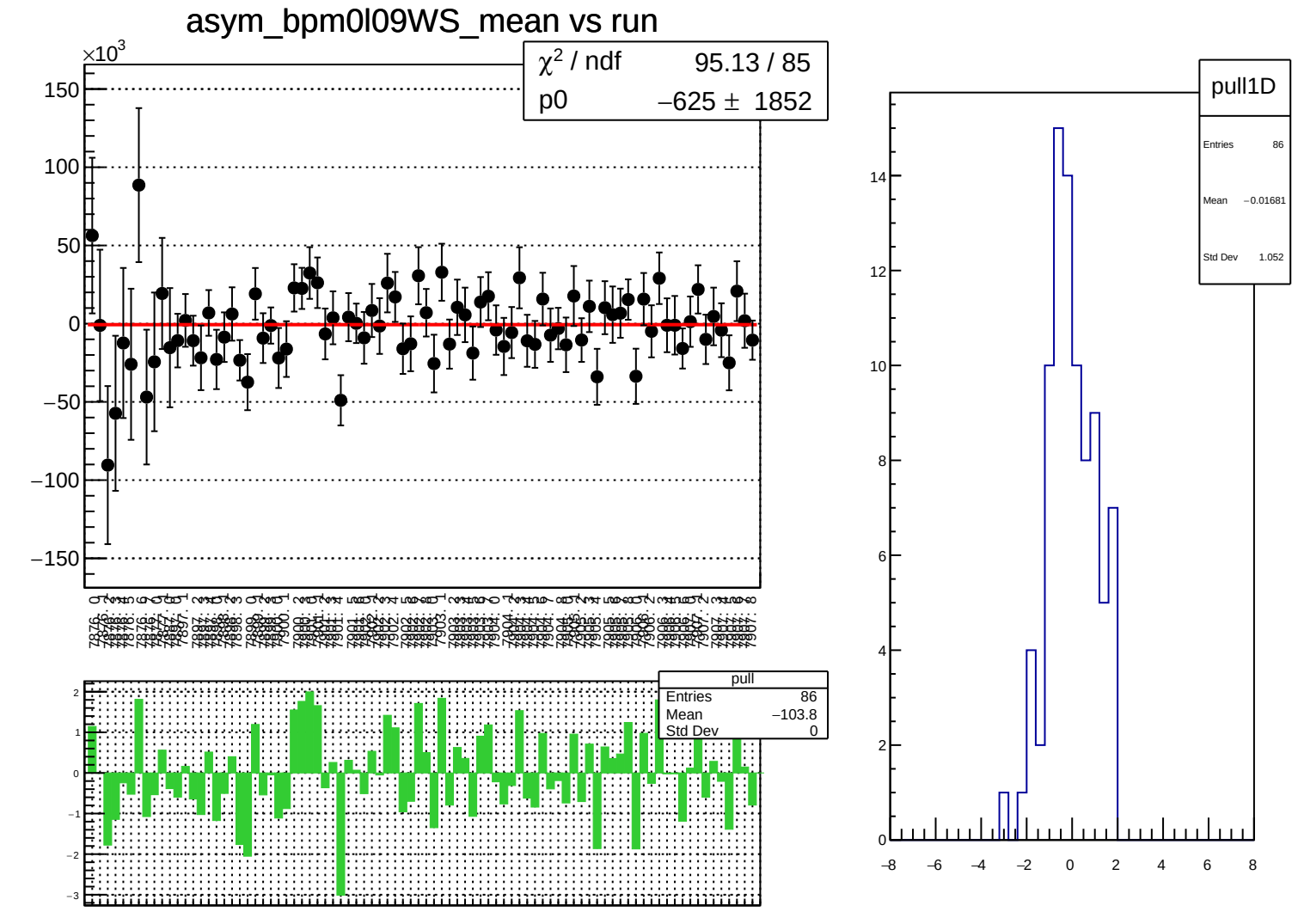

pull1D
Entries 86
Mean 0.1365
Std Dev 2.386
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

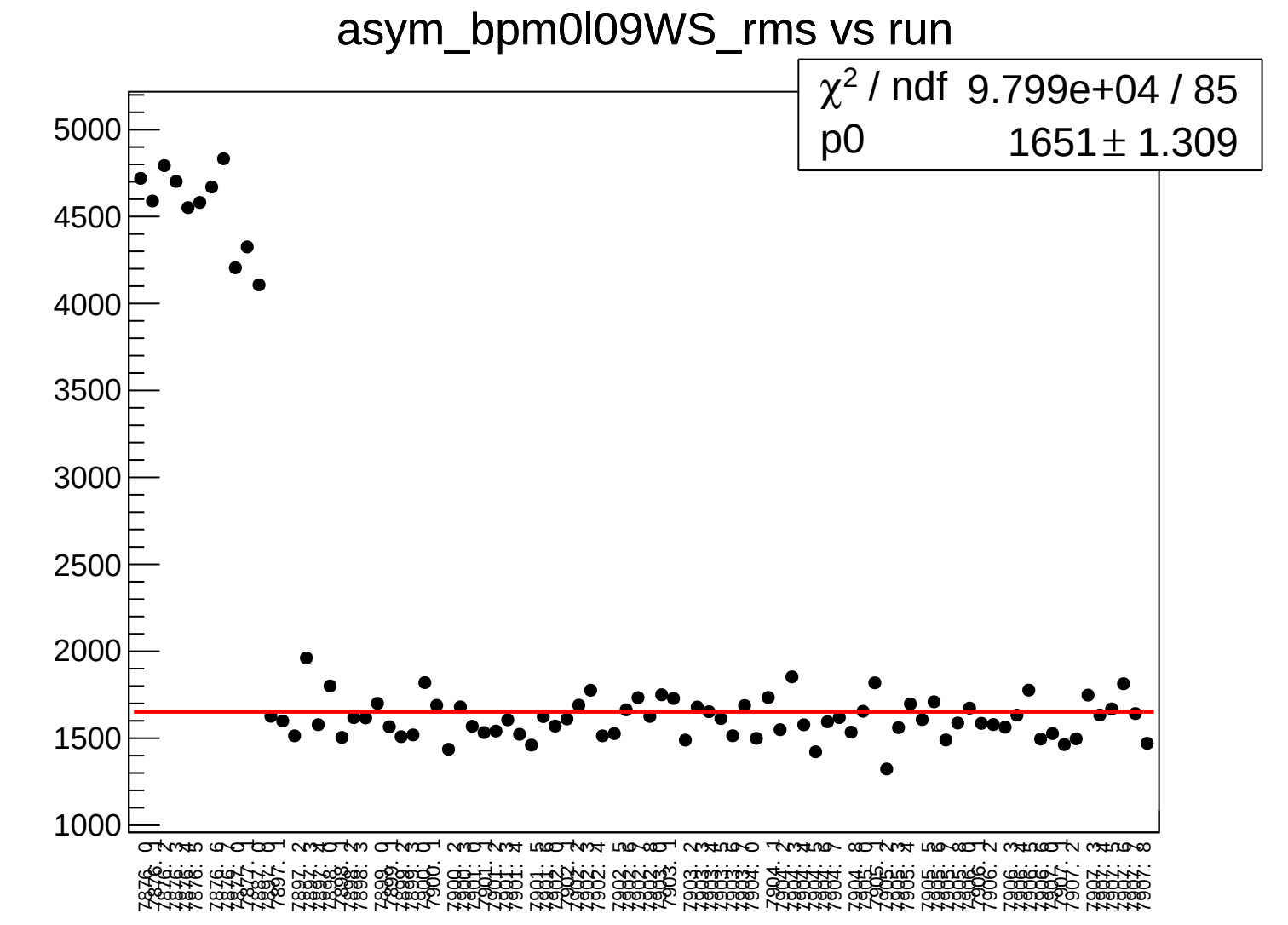

asym_bpm0l07WS_rms vs run
χ^2 / ndf 5.846e+04 / 85
p0 171.9 ± 0.1347
800
700
600
500
400
300
200
100

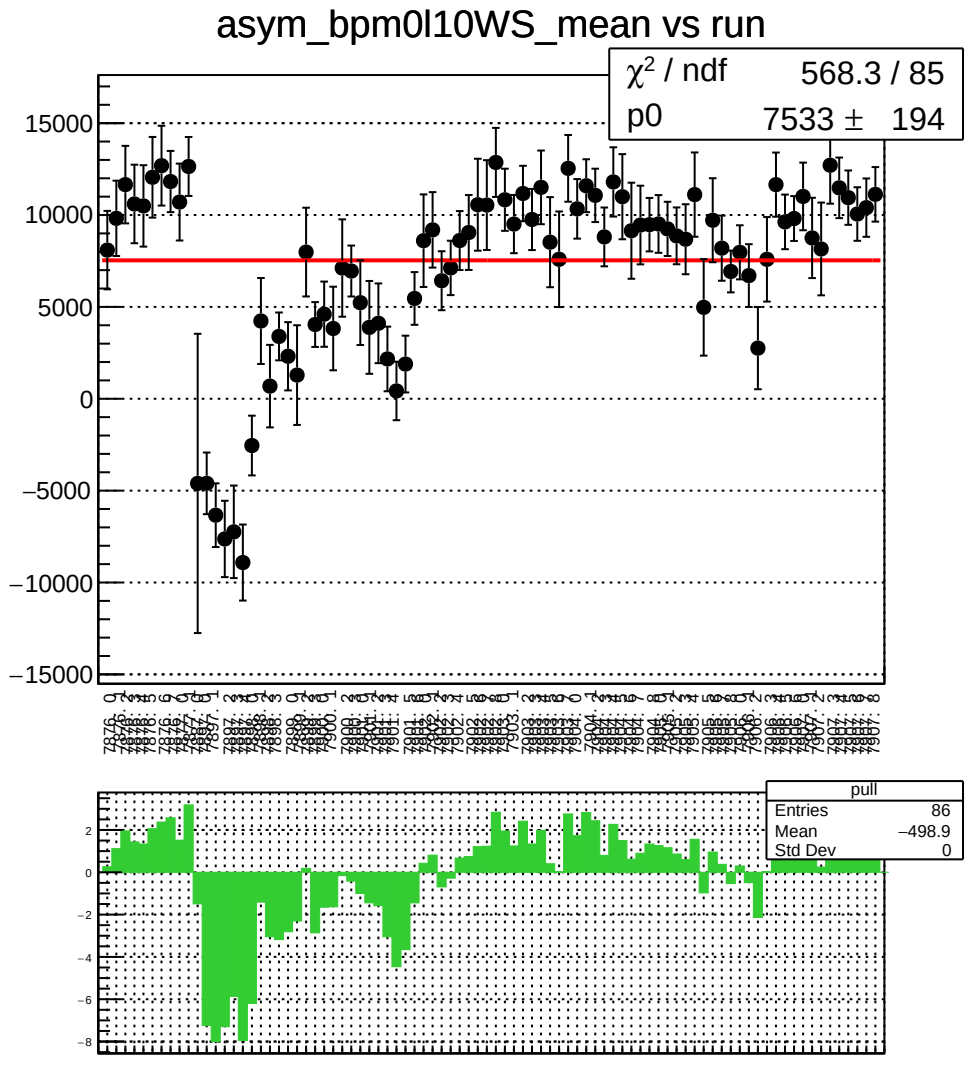

asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 98.24 / 85
p0 −133.5 ± 4069
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 86
Mean −92.73
Std Dev 0
2
1
0
−1
−2
−3

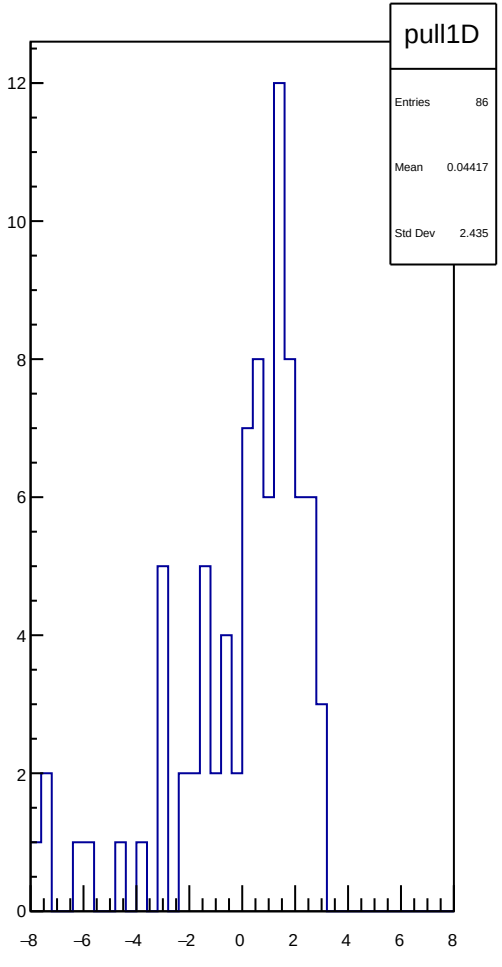

pull1D
Entries 86
Mean −0.02417
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

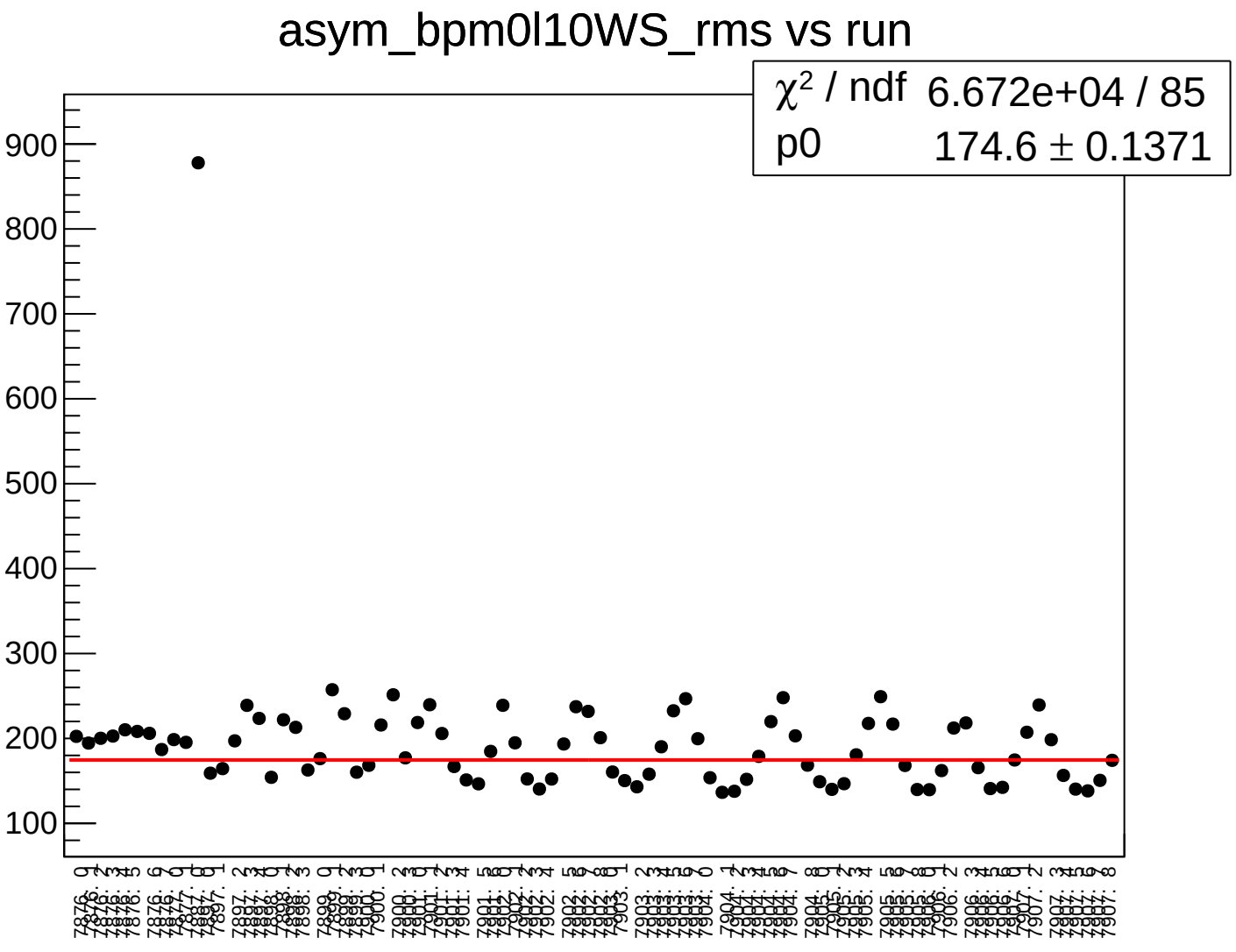

asym_bpm0l08WS_rms vs run
χ² / ndf 4.435e+04 / 85
p0 3689 ± 2.877
8000
7000
6000
5000
4000
3000

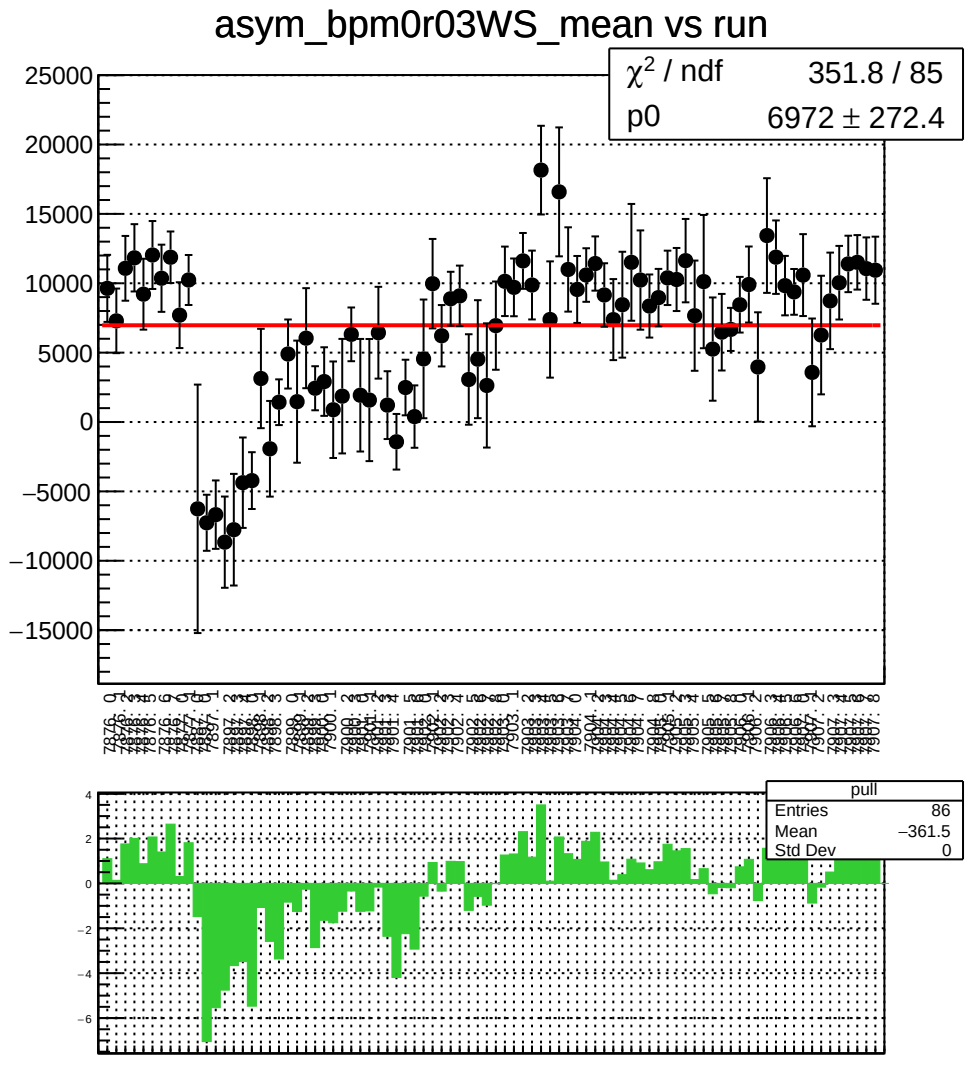

asym_bpm0l09WS_mean vs run
×10^3
χ² / ndf 95.13 / 85
p0 −625 ± 1852
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −103.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01681
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

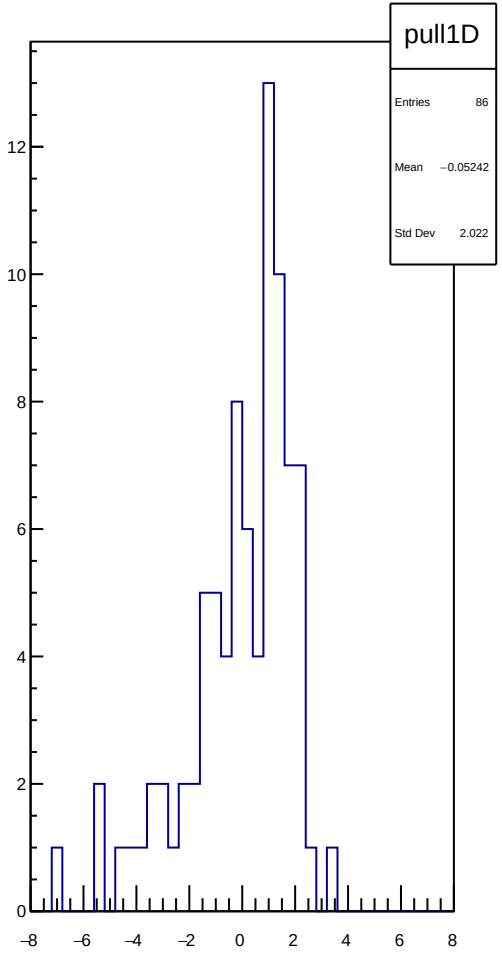

asym_bpm0l09WS_rms vs run
χ^2 / ndf 9.799e+04 / 85
p0 1651 ± 1.309
5000
4500
4000
3500
3000
2500
2000
1500
1000

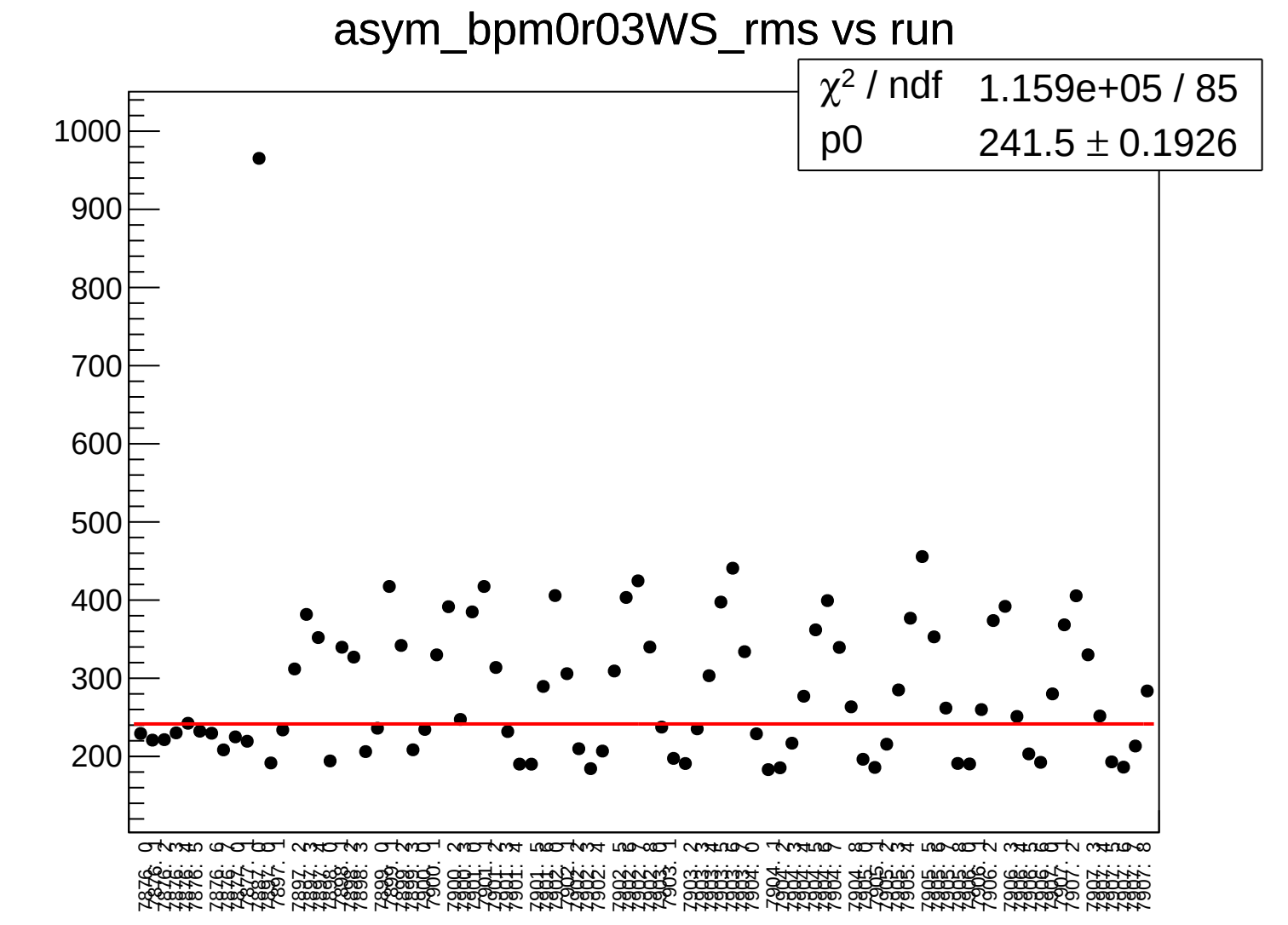

asym_bpm0l10WS_mean vs run
χ² / ndf 568.3 / 85
p0 7533 ± 194
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −498.9
Std Dev 0
2
0
−2
−4
−6
−8

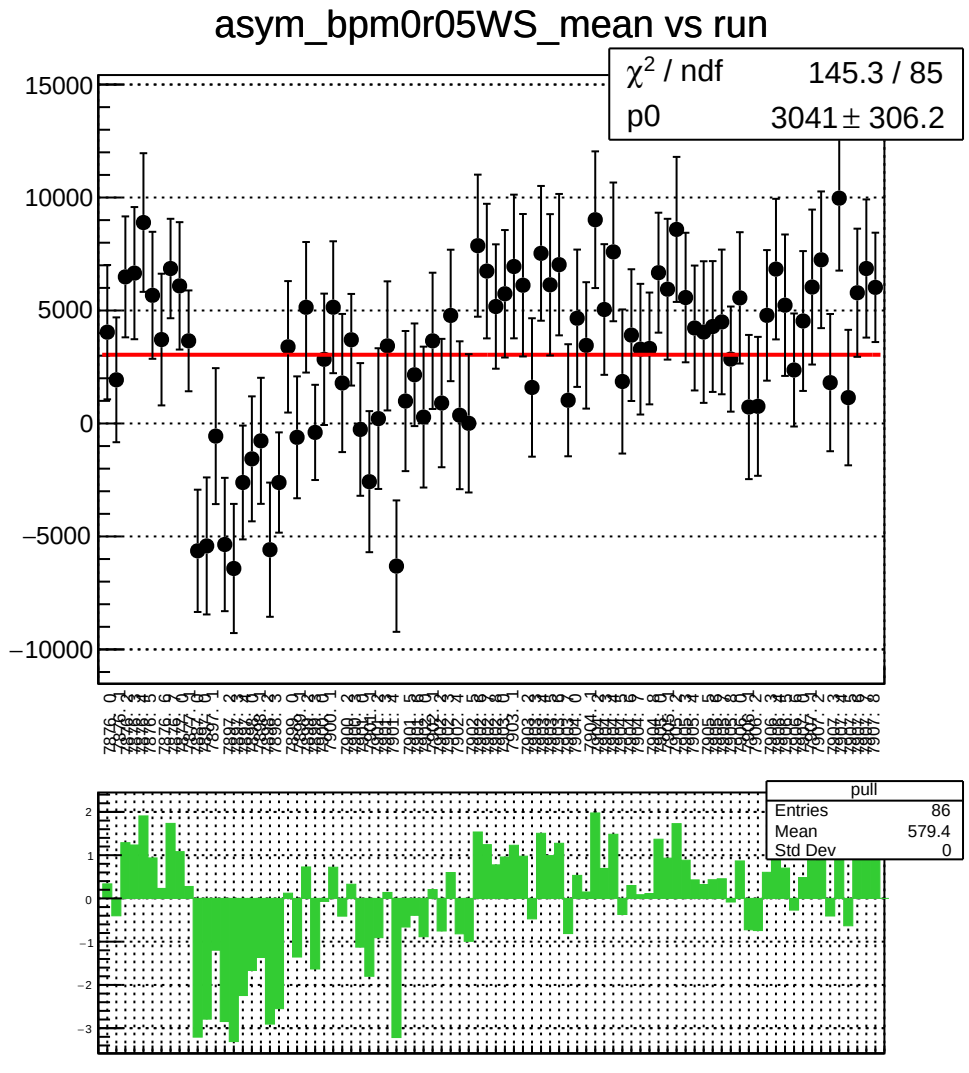

pull1D
Entries 86
Mean 0.04417
Std Dev 2.435
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

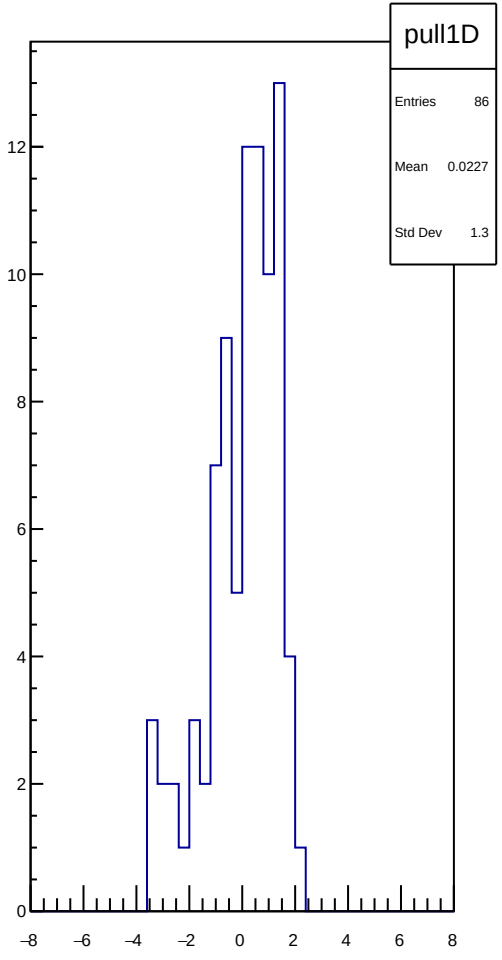

asym_bpm0l10WS_rms vs run
χ² / ndf 6.672e+04 / 85
p0 174.6 ± 0.1371
900
800
700
600
500
400
300
200
100

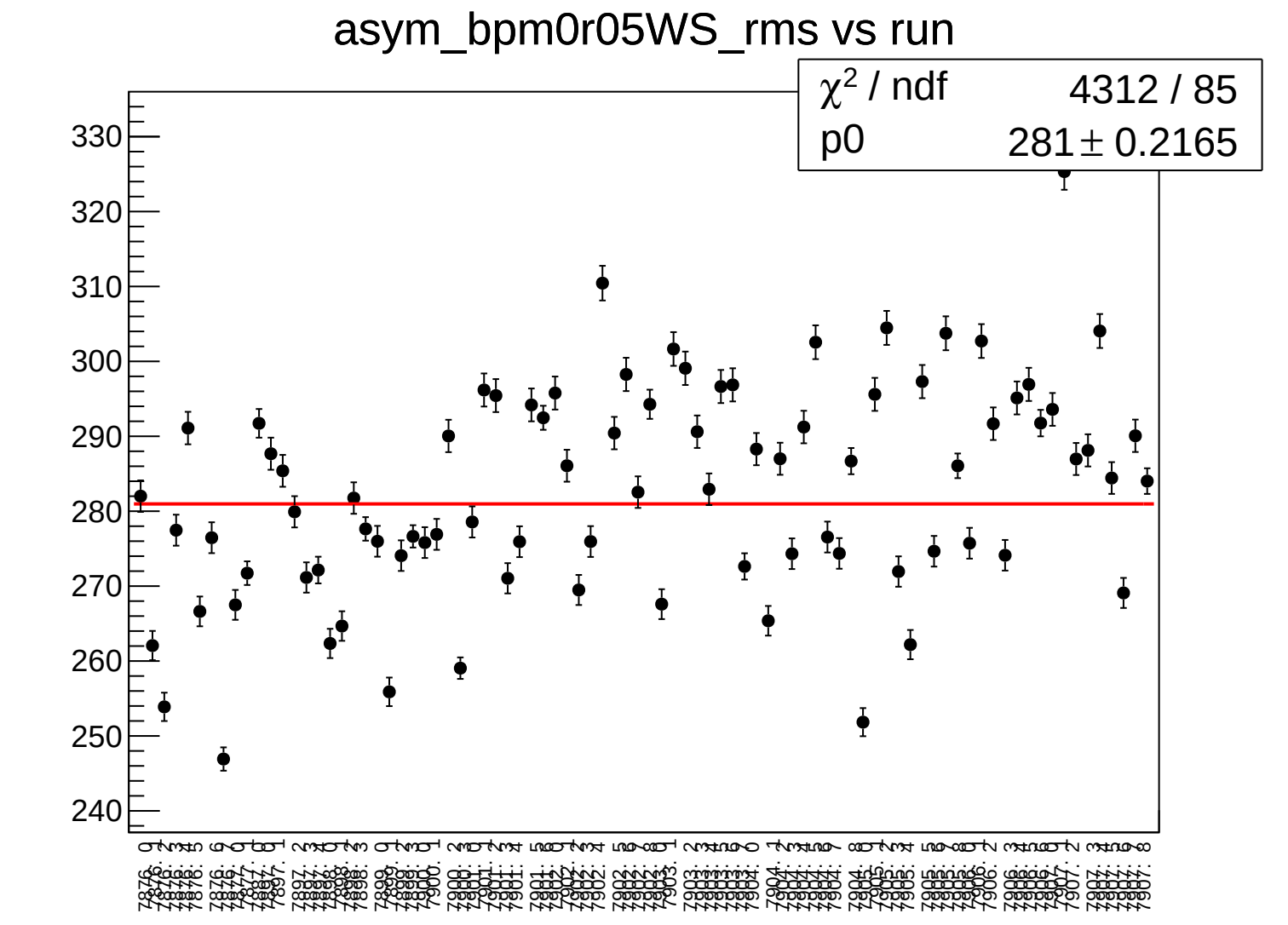

asym_bpm0r03WS_mean vs run
χ² / ndf 351.8 / 85
p0 6972 ± 272.4
pull
Entries 86
Mean −361.5
Std Dev 0

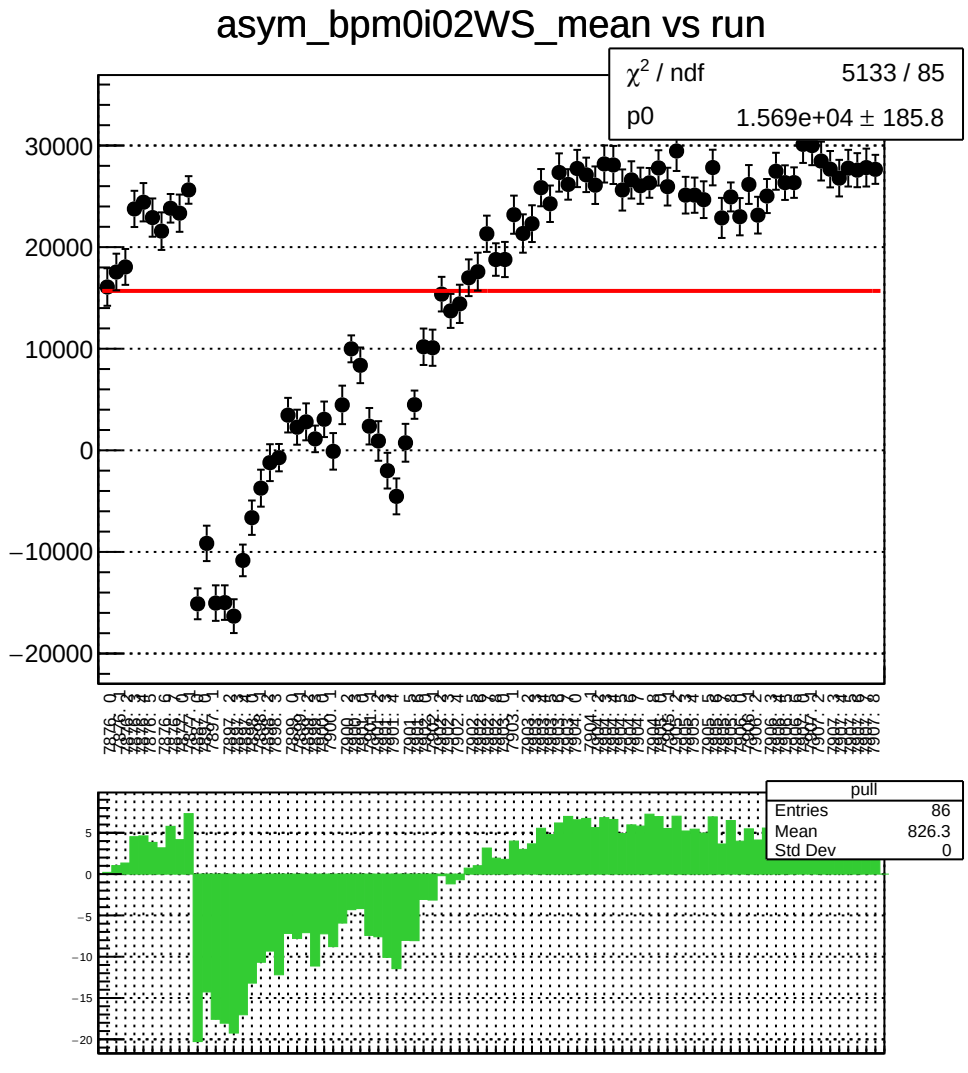

pull1D
Entries 86
Mean −0.05242
Std Dev 2.022

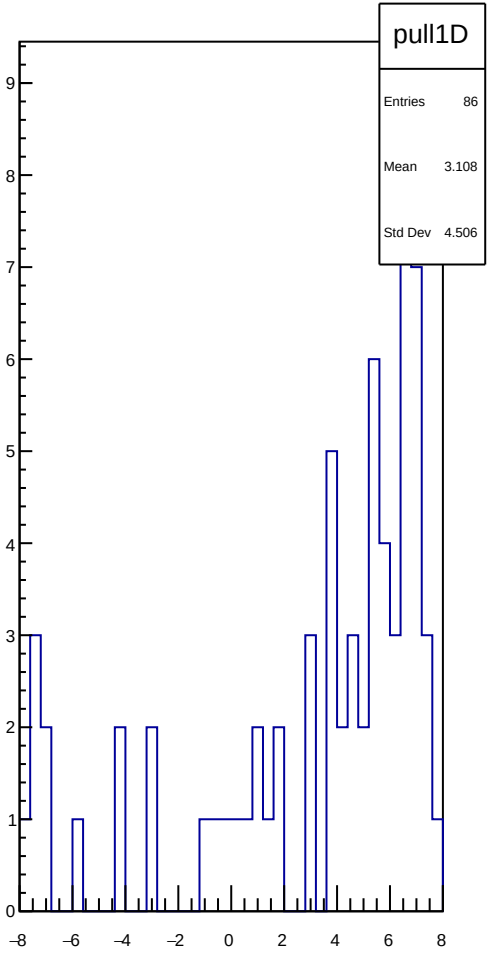

asym_bpm0r03WS_rms vs run
χ² / ndf 1.159e+05 / 85
p0 241.5 ± 0.1926
1000
900
800
700
600
500
400
300
200

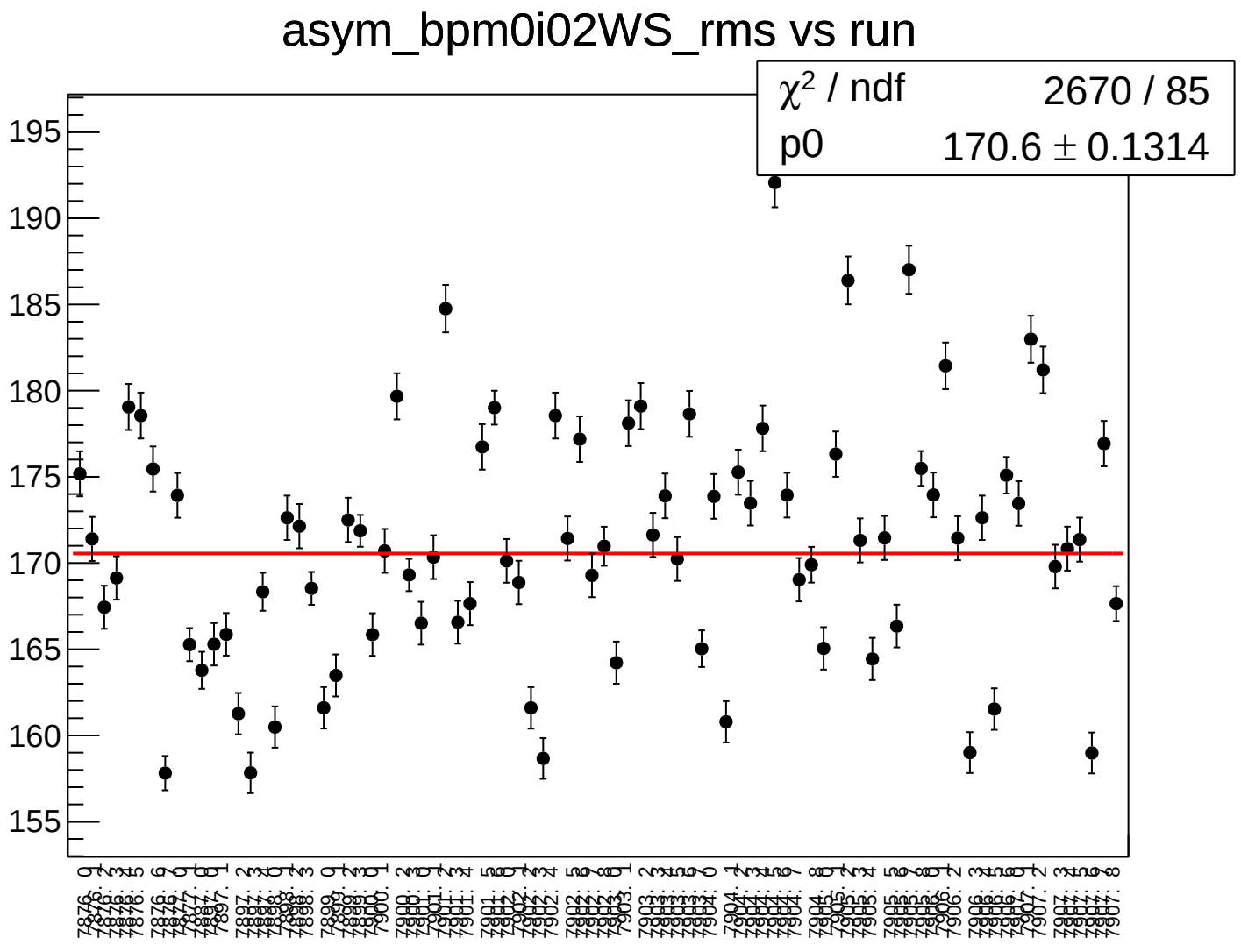

asym_bpm0r05WS_mean vs run
χ² / ndf 145.3 / 85
p0 3041 ± 306.2
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 579.4
Std Dev 0
2
1
0
−1
−2
−3

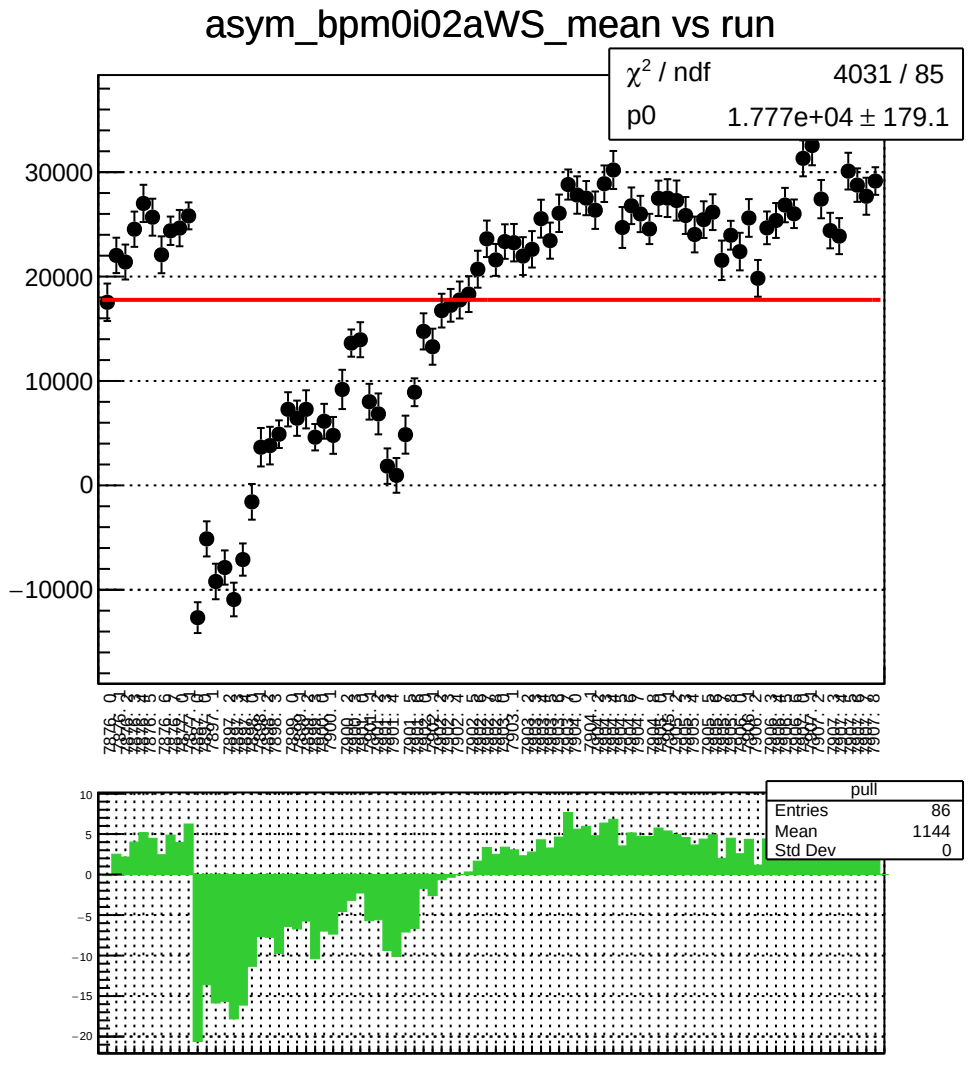

pull1D
Entries 86
Mean 0.0227
Std Dev 1.3
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

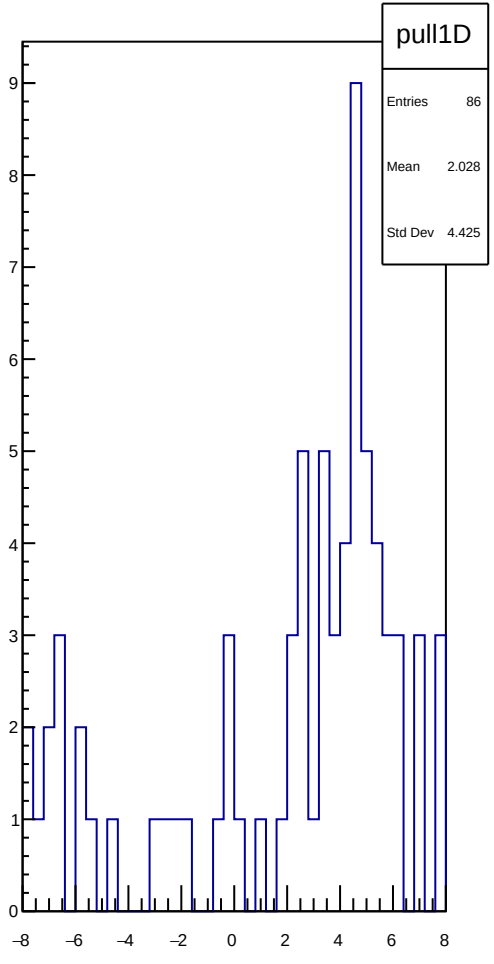

asym_bpm0r05WS_rms vs run
χ^2 / ndf 4312 / 85
p0 281 ± 0.2165
330
320
310
300
290
280
270
260
250
240

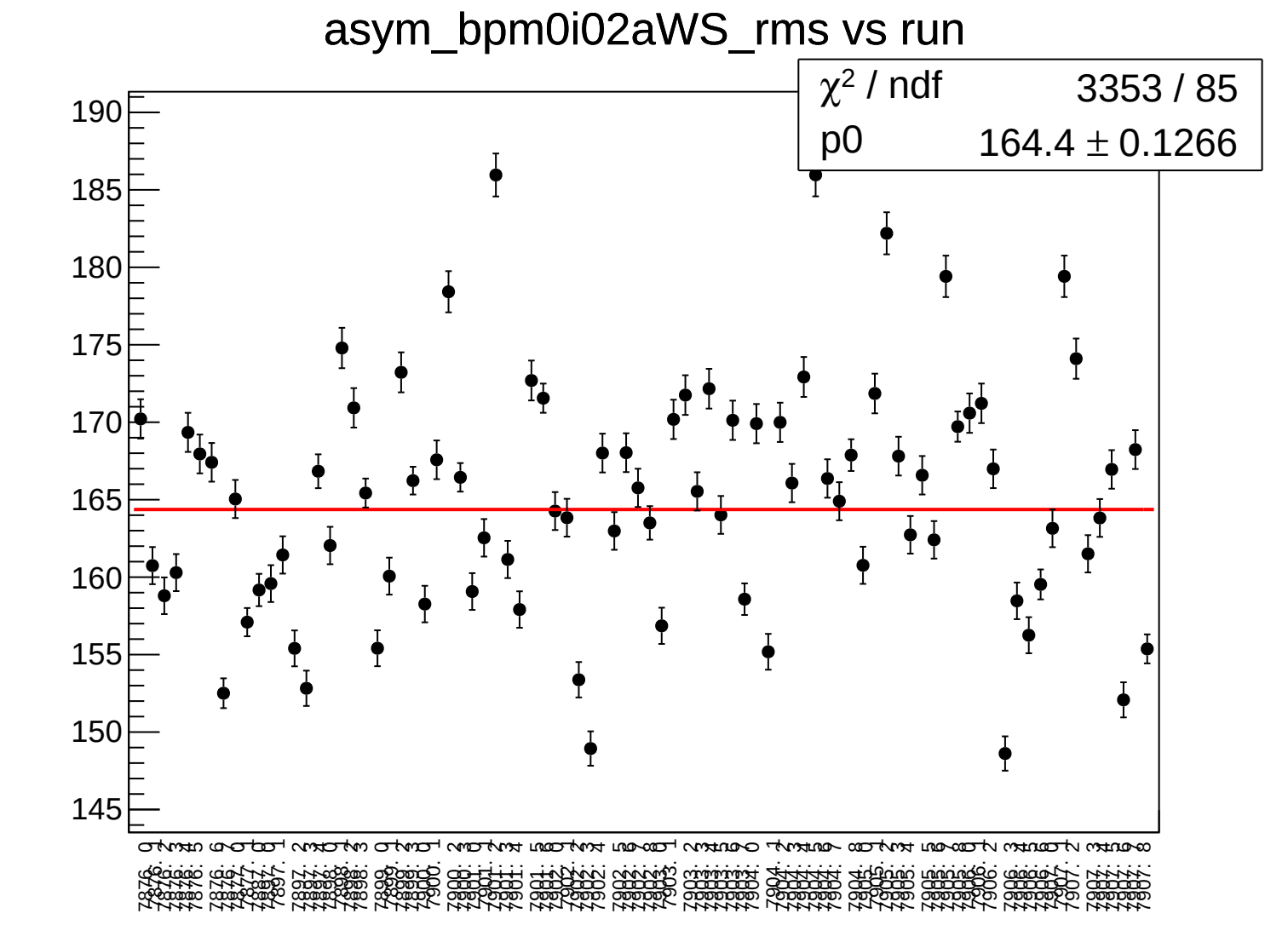

asym_bpm0i02WS_mean vs run
χ² / ndf 5133 / 85
p0 1.569e+04 ± 185.8
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 826.3
Std Dev 0
5
0
−5
−10
−15
−20

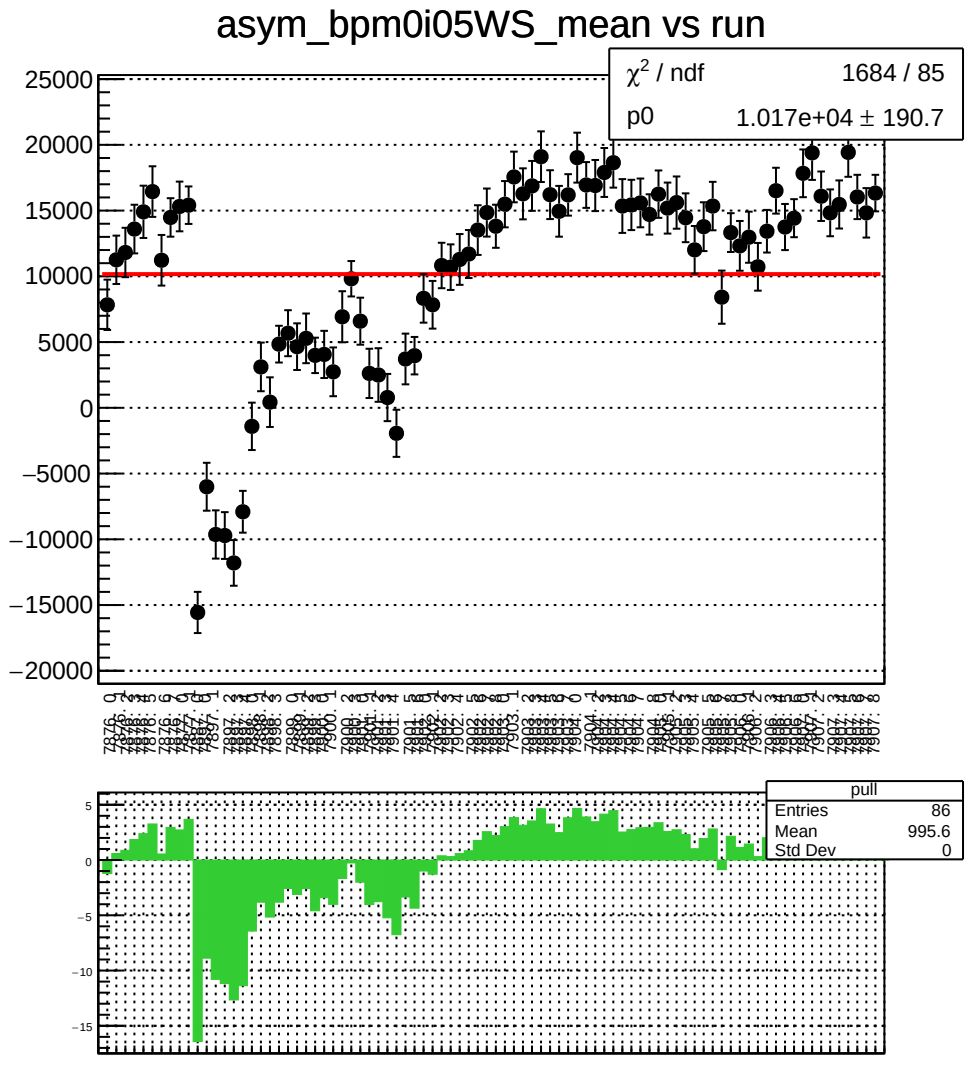

pull1D
Entries 86
Mean 3.108
Std Dev 4.506
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

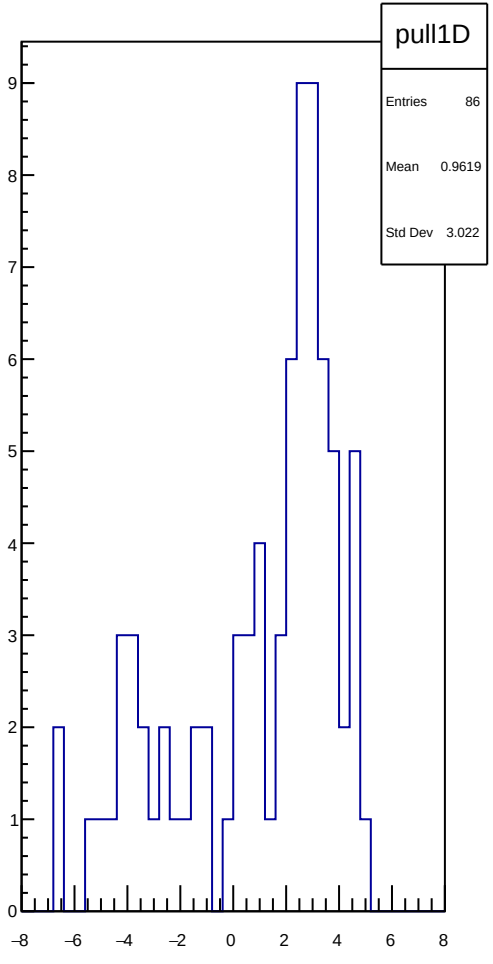

asym_bpm0i02WS_rms vs run
χ² / ndf 2670 / 85
p0 170.6 ± 0.1314
195
190
185
180
175
170
165
160
155

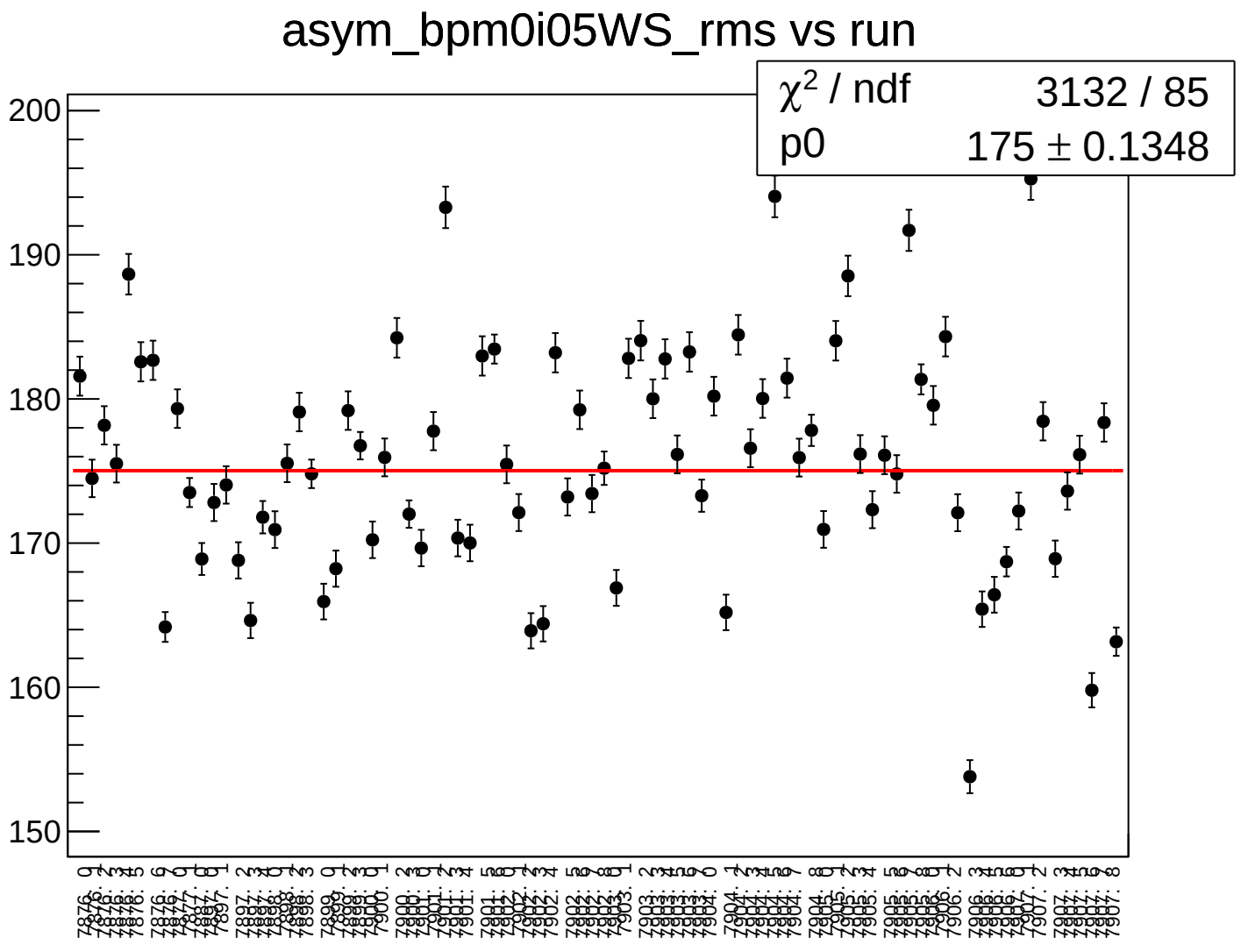

asym_bpm0i02aWS_mean vs run
χ² / ndf 4031 / 85
p0 1.777e+04 ± 179.1
30000
20000
10000
0
−10000
pull
Entries 86
Mean 1144
Std Dev 0
10
5
0
−5
−10
−15
−20

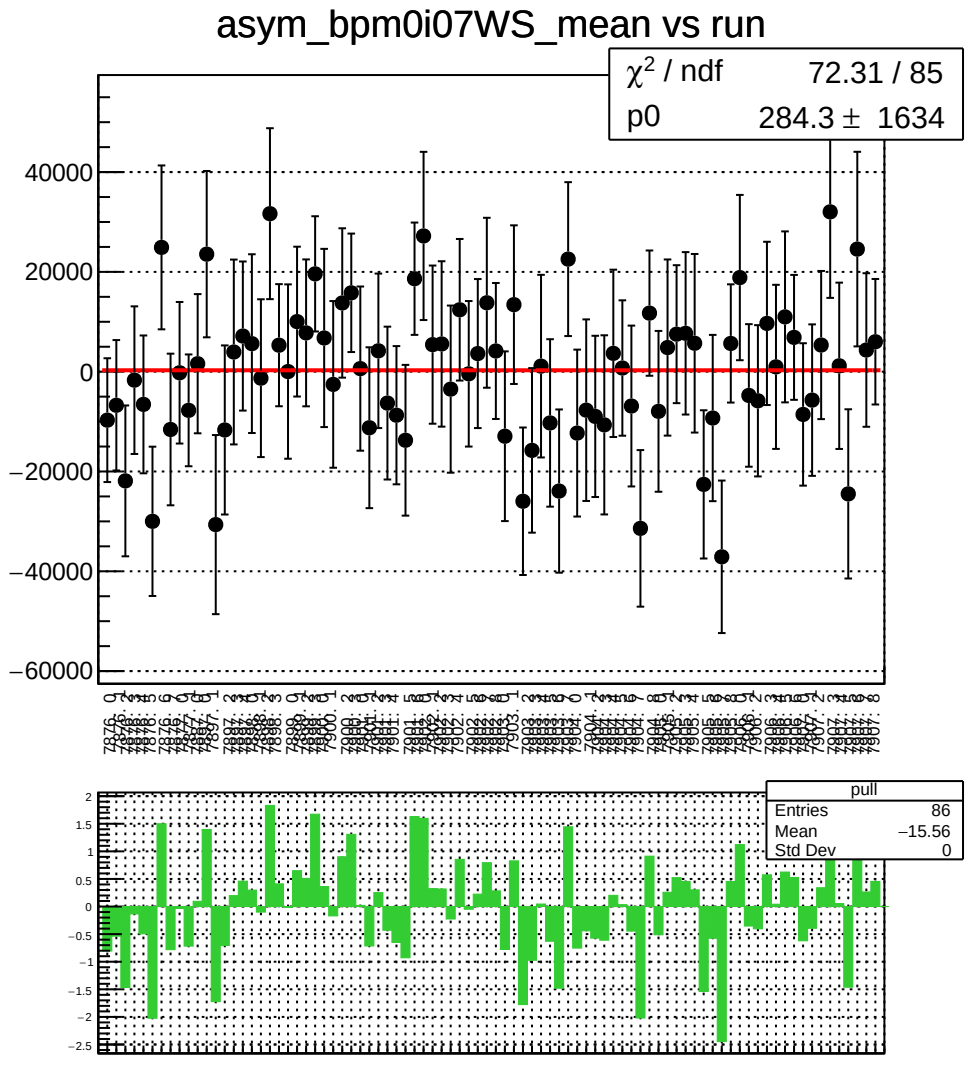

pull1D
Entries 86
Mean 2.028
Std Dev 4.425
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

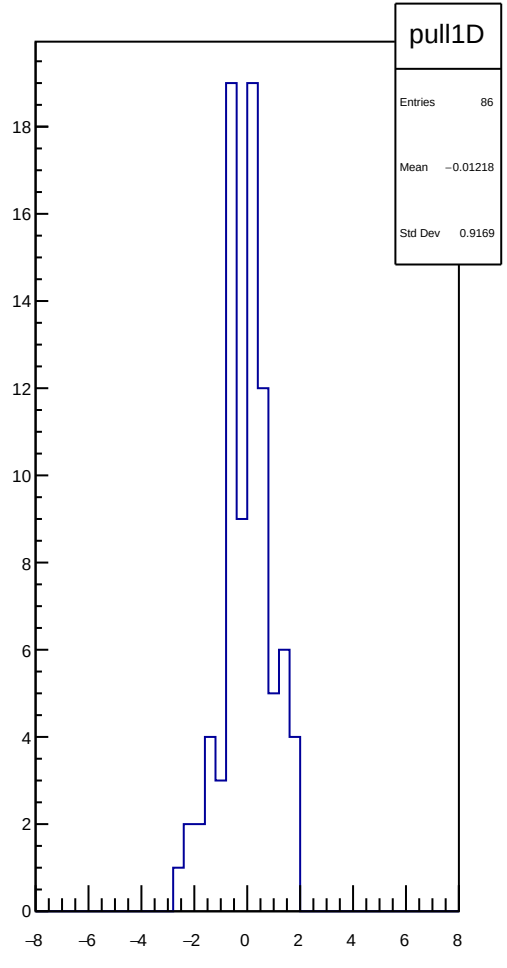

asym_bpm0i02aWS_rms vs run
χ² / ndf 3353 / 85
p0 164.4 ± 0.1266
190
185
180
175
170
165
160
155
150
145

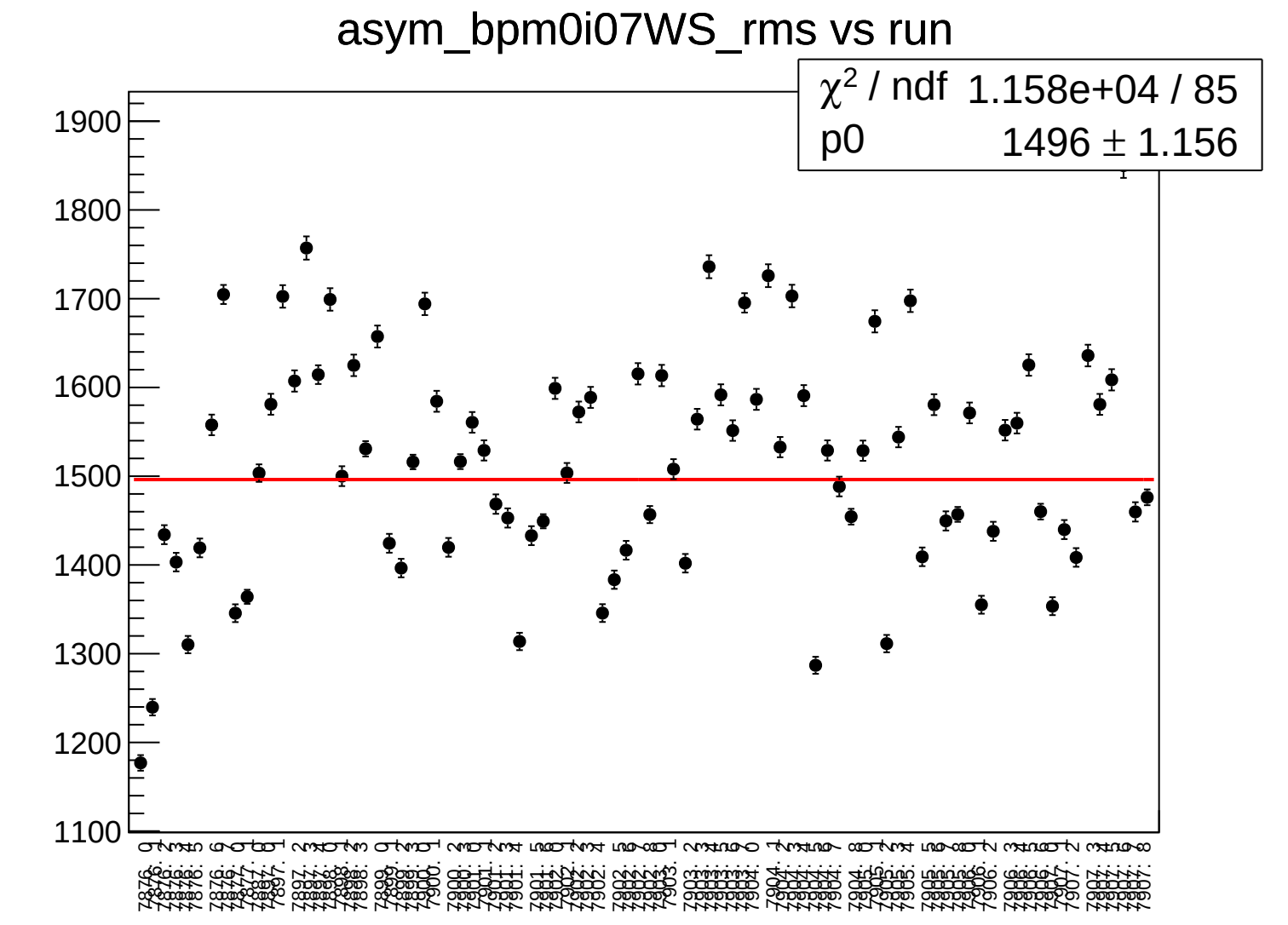

asym_bpm0i05WS_mean vs run
χ² / ndf 1684 / 85
p0 1.017e+04 ± 190.7
pull
Entries 86
Mean 995.6
Std Dev 0

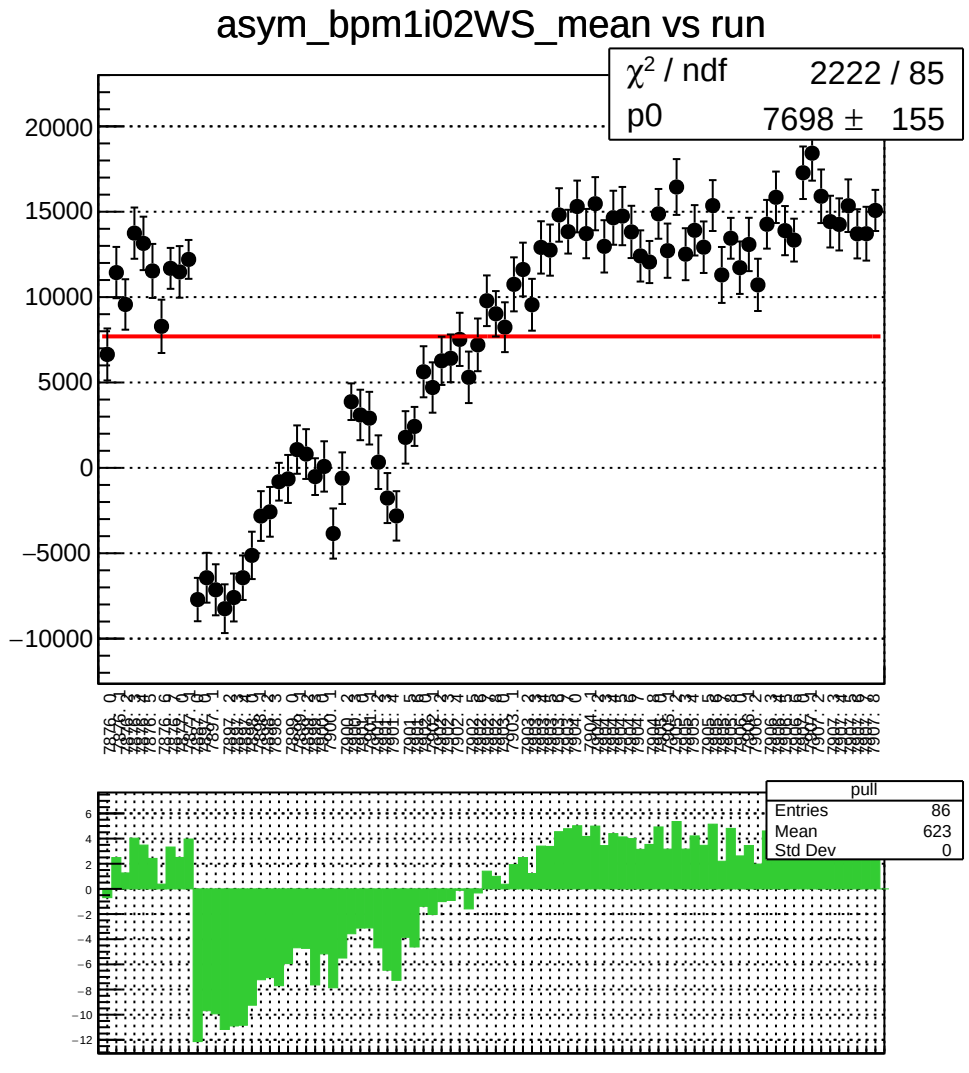

pull1D
Entries 86
Mean 0.9619
Std Dev 3.022

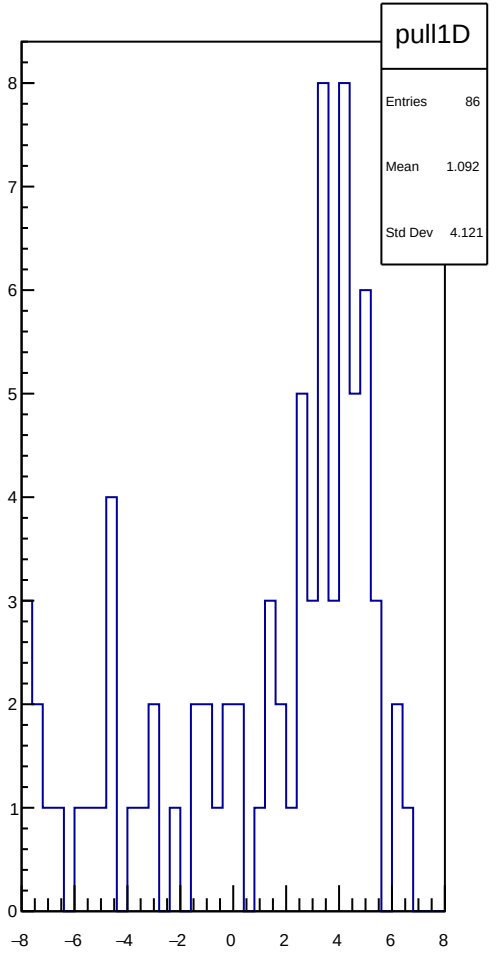

asym_bpm0i05WS_rms vs run
χ² / ndf 3132 / 85
p0 175 ± 0.1348
200
190
180
170
160
150

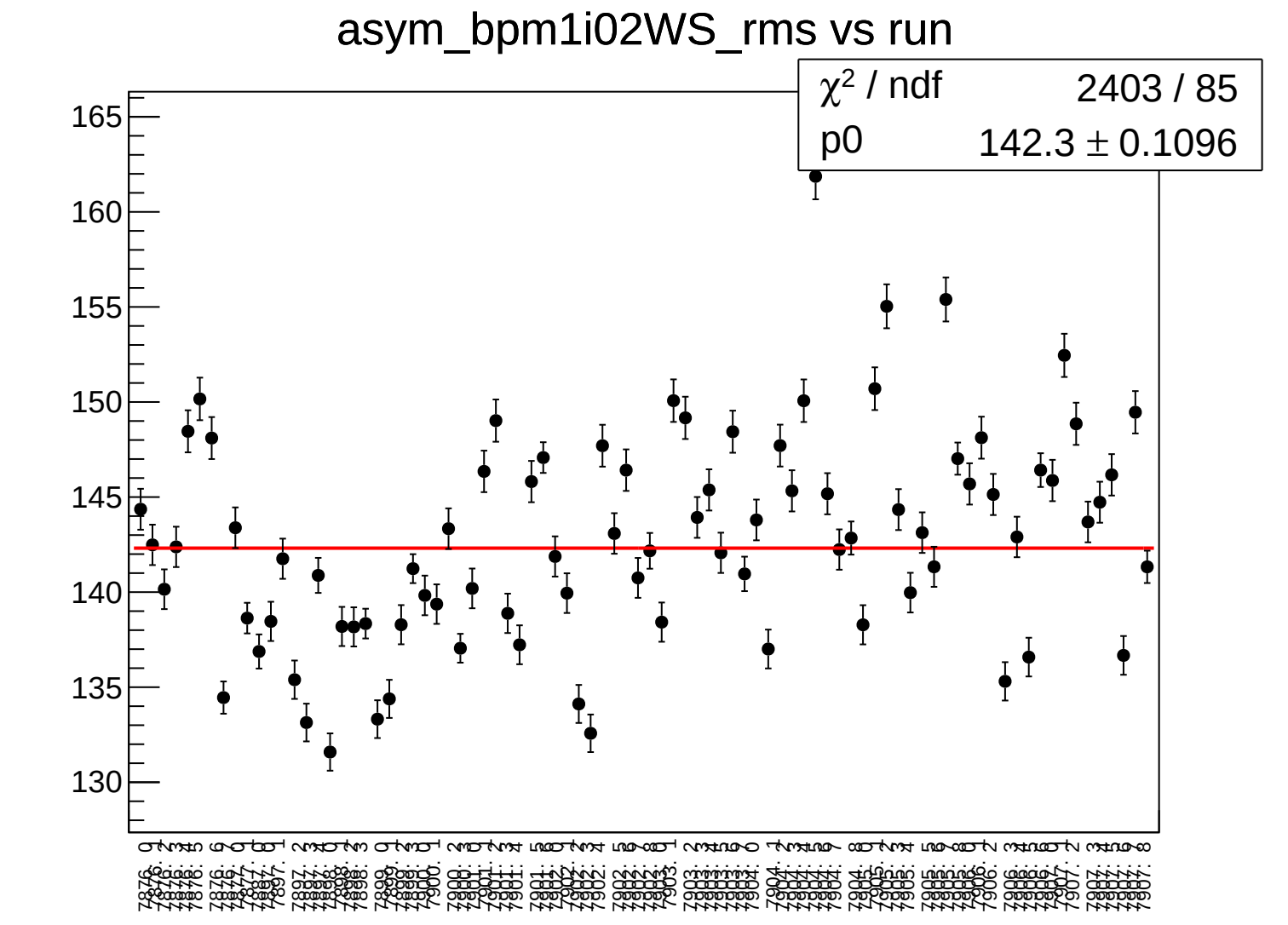

asym_bpm0i07WS_mean vs run
χ² / ndf 72.31 / 85
p0 284.3 ± 1634
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −15.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

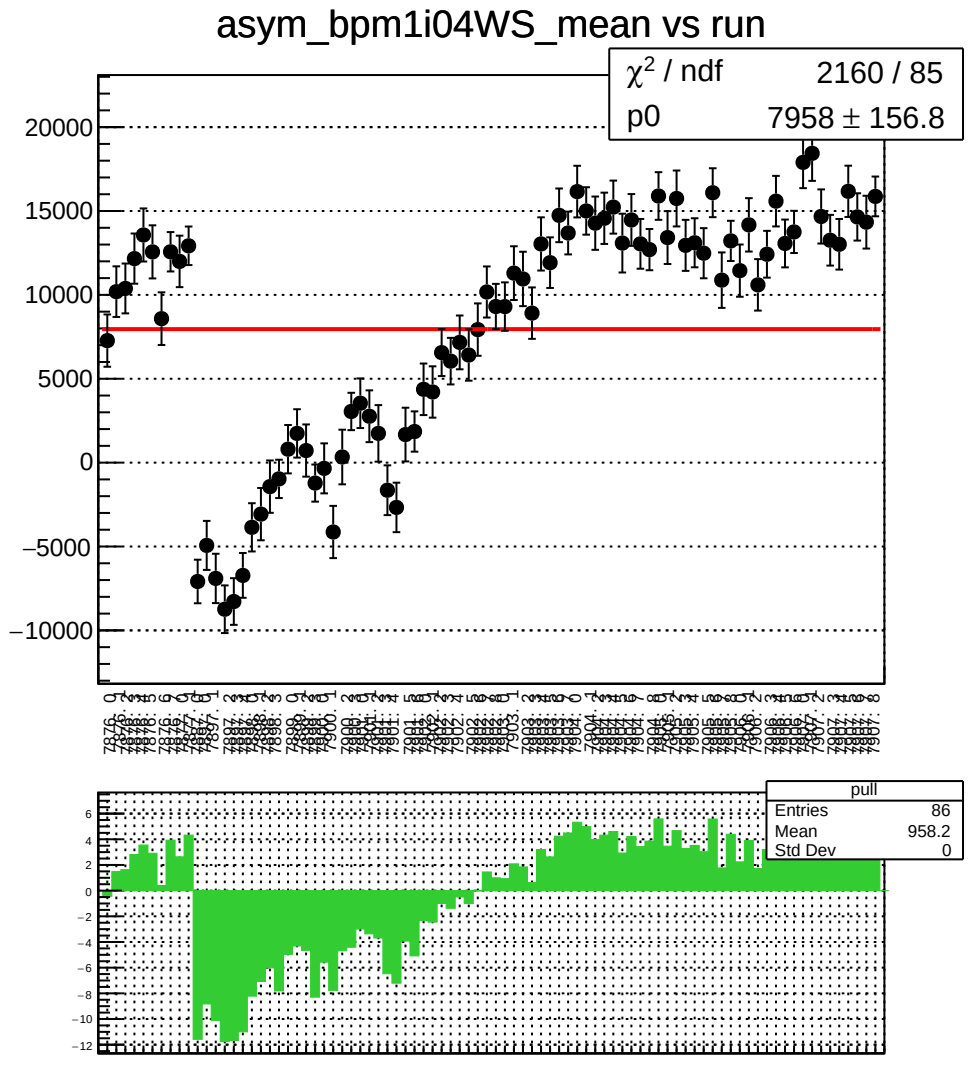

pull1D
Entries 86
Mean −0.01218
Std Dev 0.9169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

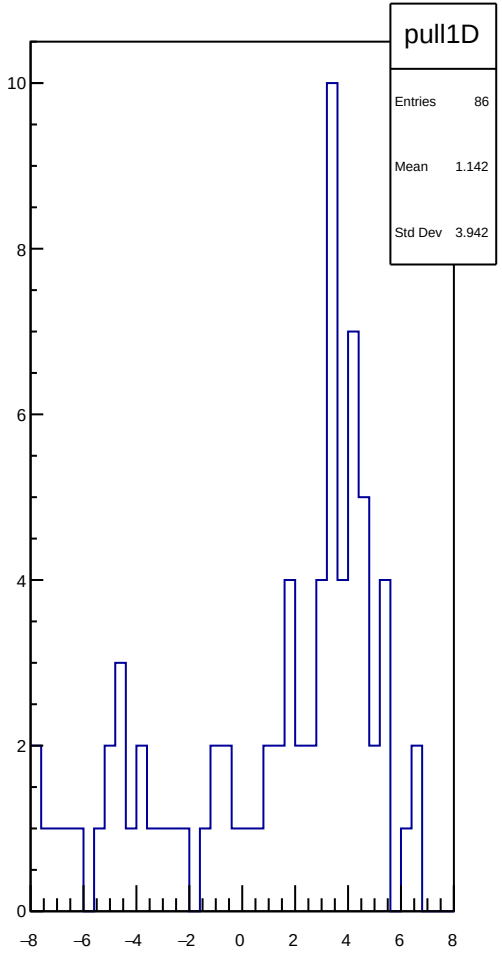

asym_bpm0i07WS_rms vs run
χ² / ndf 1.158e+04 / 85
p0 1496 ± 1.156
1900
1800
1700
1600
1500
1400
1300
1200
1100

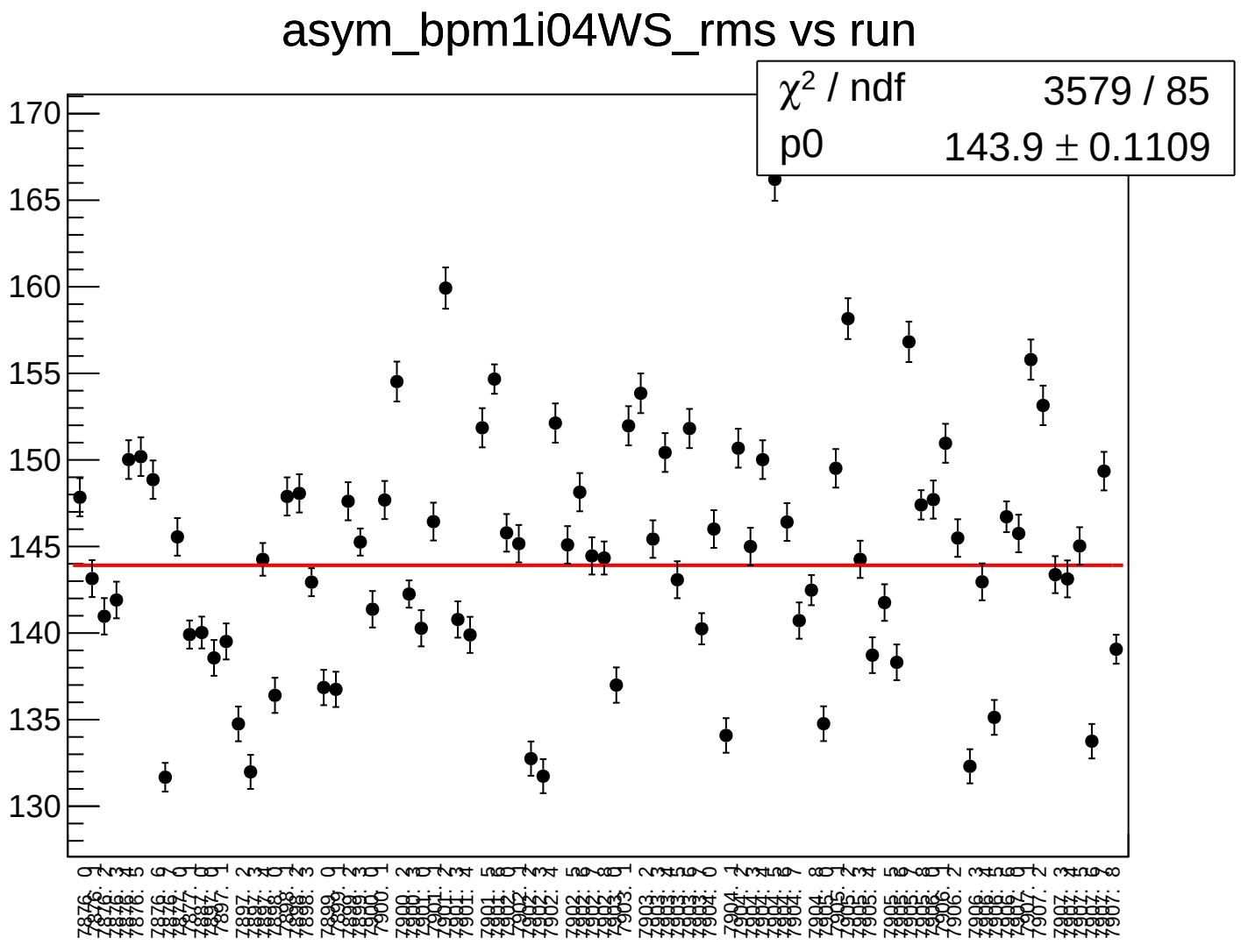

asym_bpm1i02WS_mean vs run
χ² / ndf 2222 / 85
p0 7698 ± 155
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 623
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10
−12

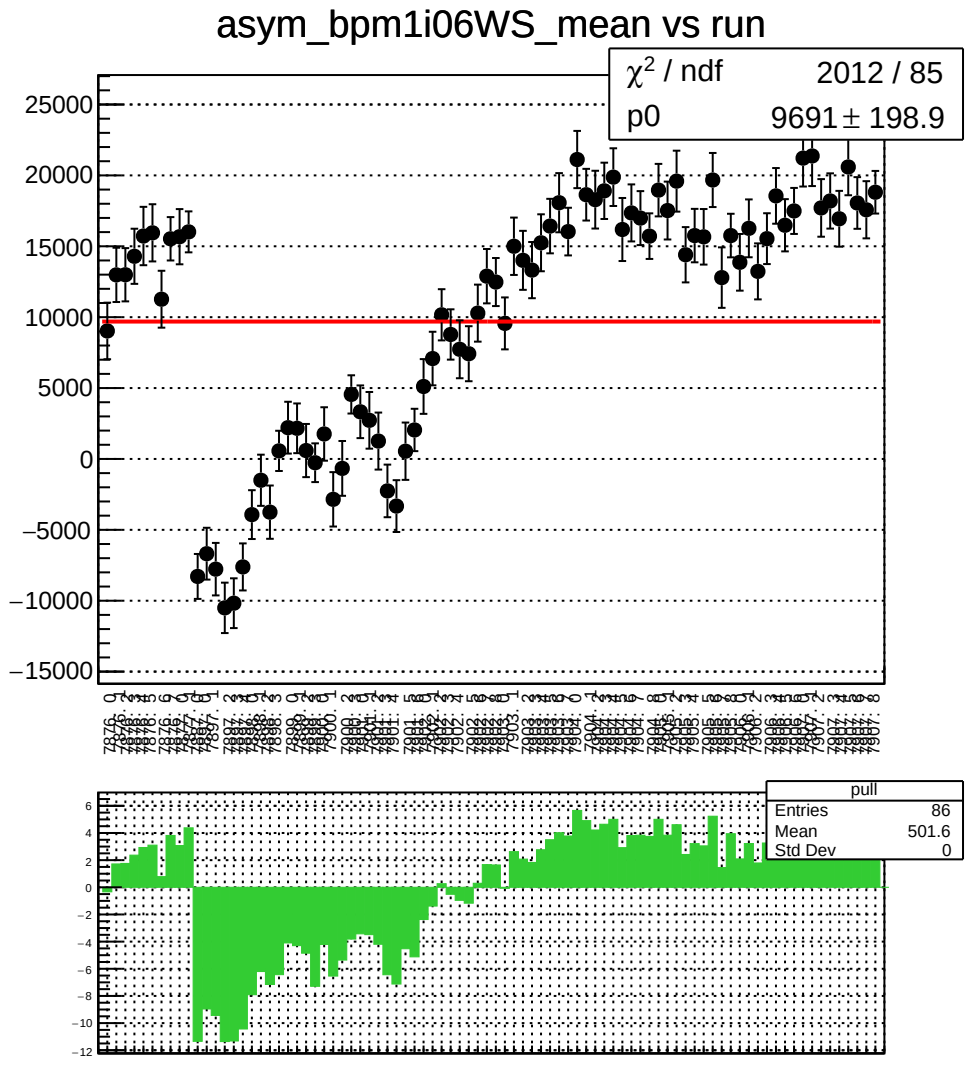

pull1D
Entries 86
Mean 1.092
Std Dev 4.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

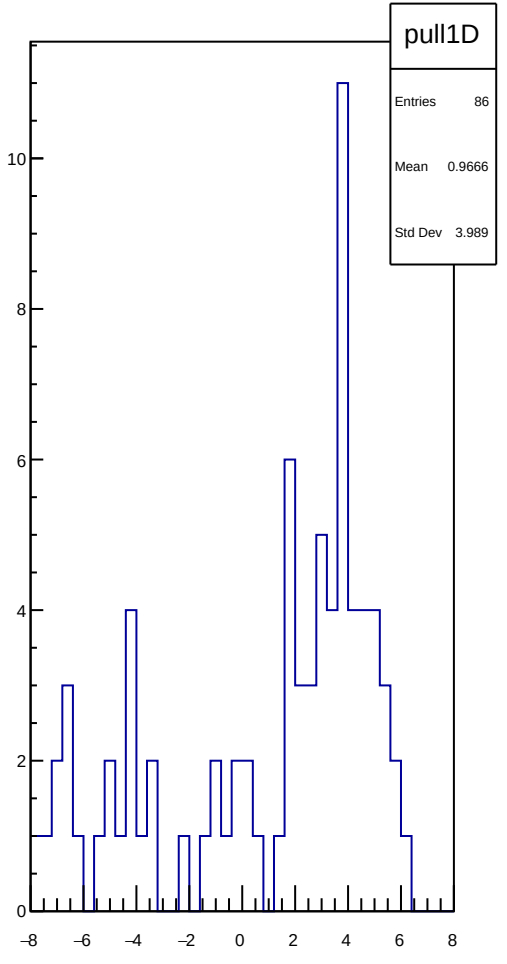

asym_bpm1i02WS_rms vs run
χ^2 / ndf 2403 / 85
p0 142.3 ± 0.1096
165
160
155
150
145
140
135
130

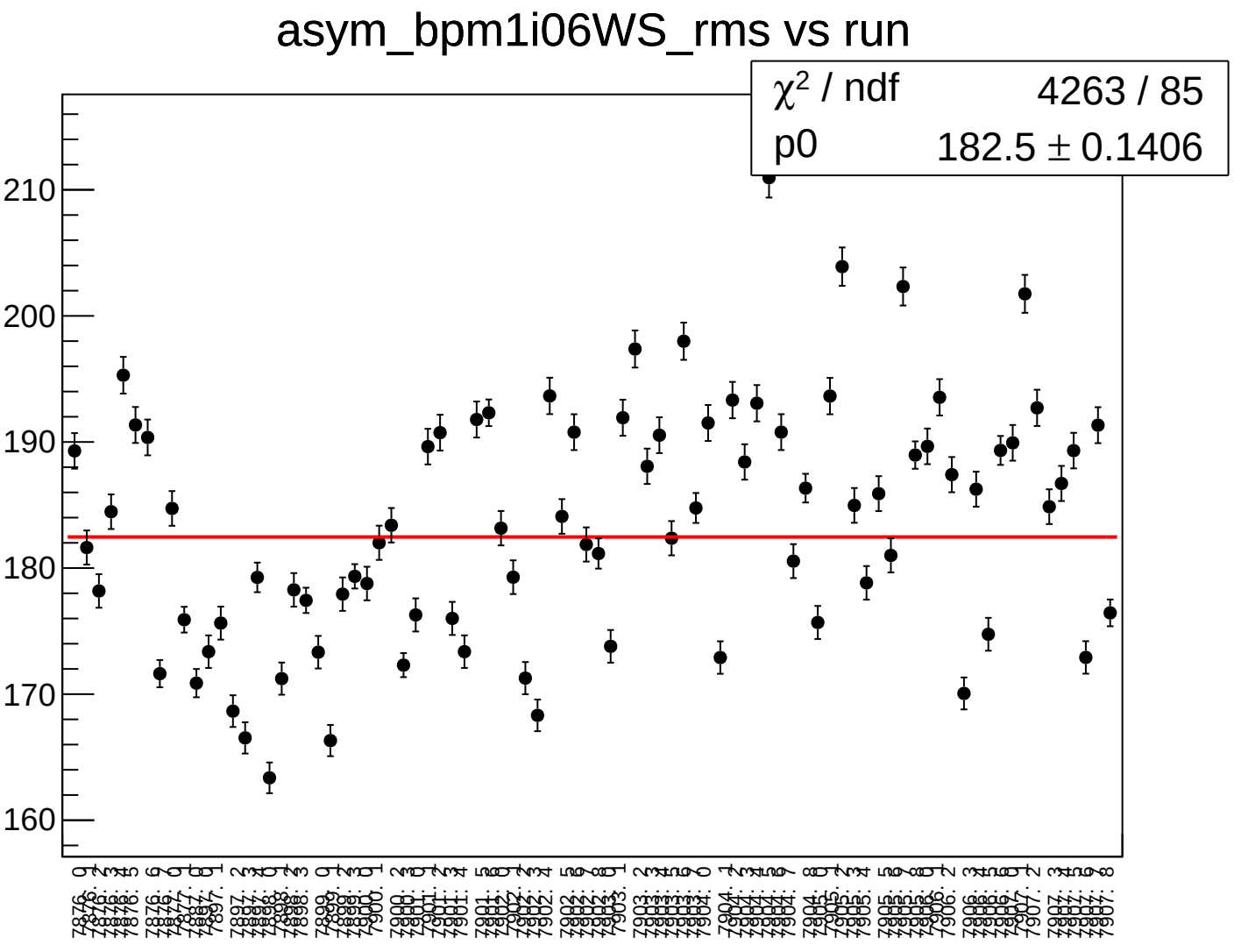

asym_bpm1i04WS_mean vs run
χ² / ndf 2160 / 85
p0 7958 ± 156.8
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 958.2
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10
−12

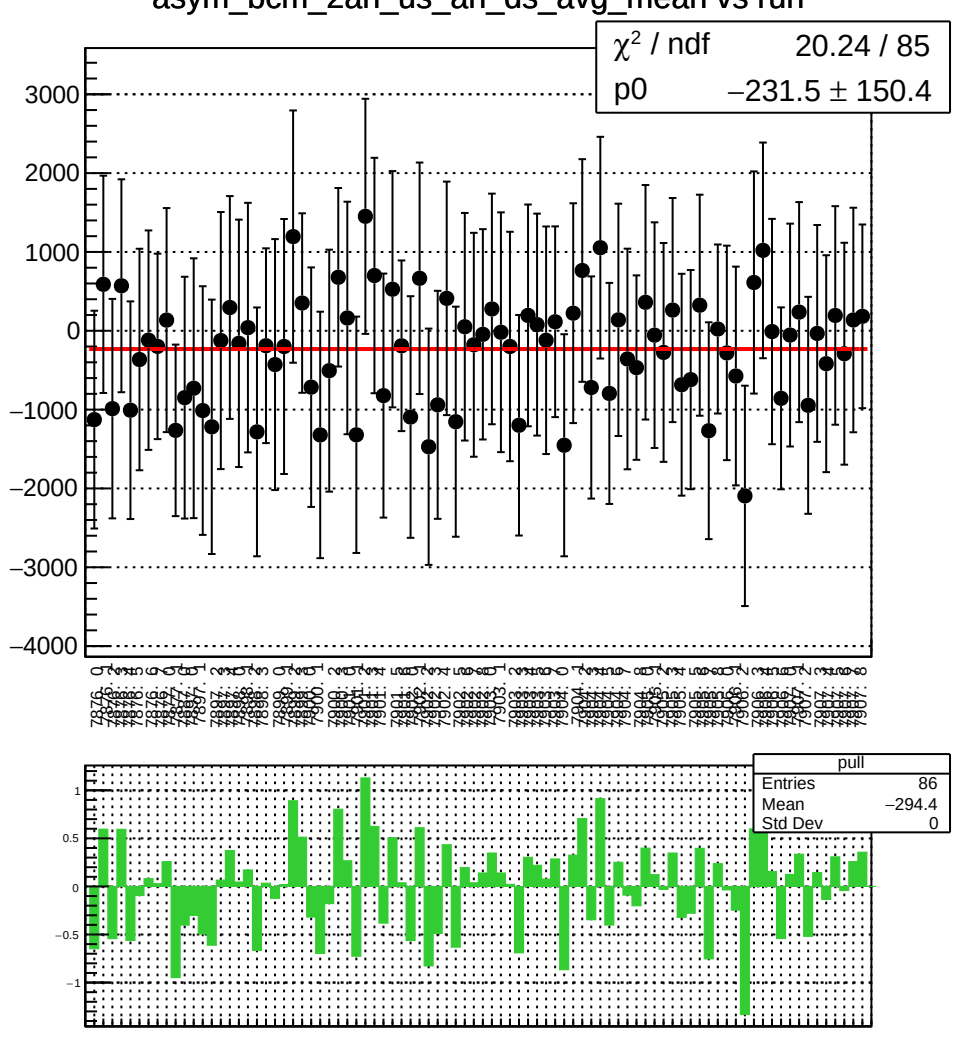

pull1D
Entries 86
Mean 1.142
Std Dev 3.942
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

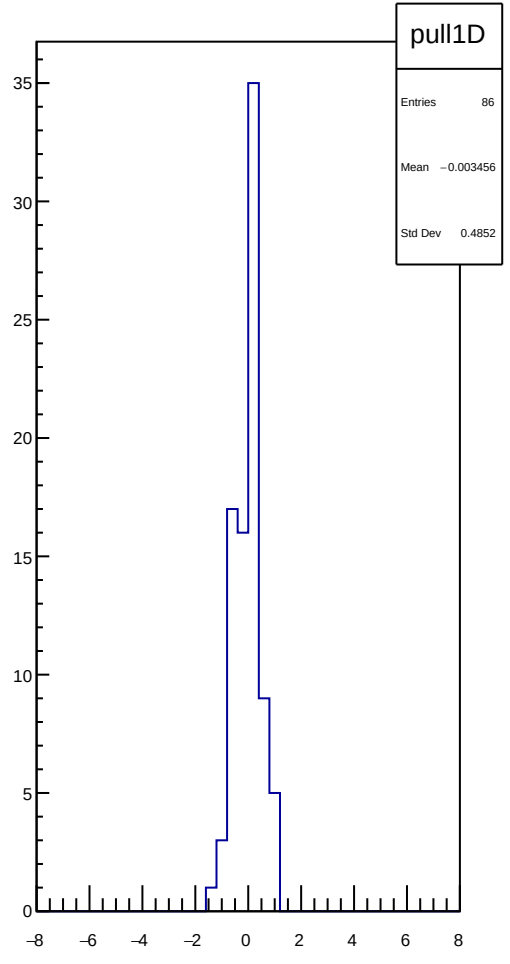

asym_bpm1i04WS_rms vs run
χ² / ndf 3579 / 85
p0 143.9 ± 0.1109
170
165
160
155
150
145
140
135
130

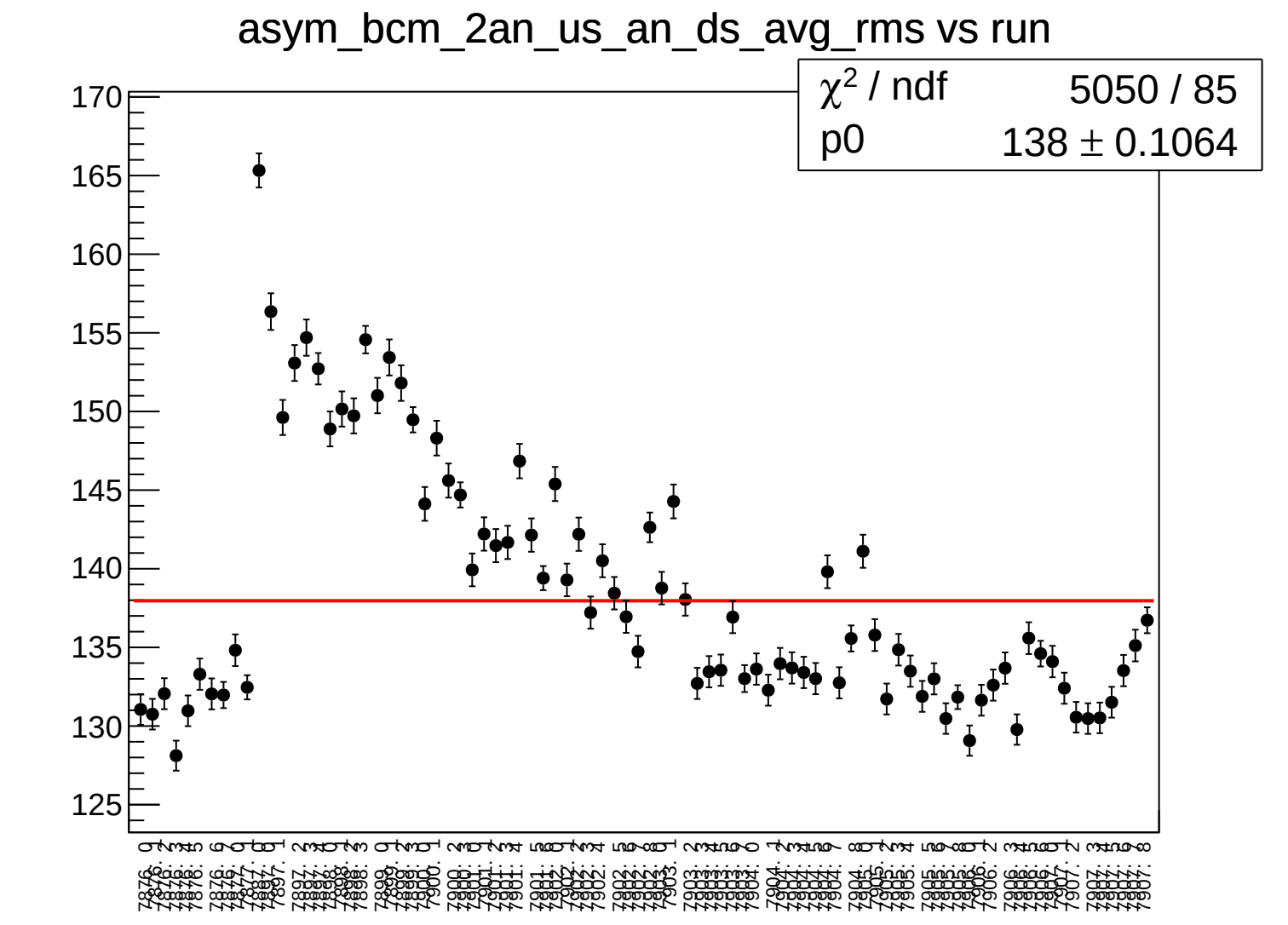

asym_bpm1i06WS_mean vs run
χ² / ndf 2012 / 85
p0 9691 ± 198.9
pull
Entries 86
Mean 501.6
Std Dev 0

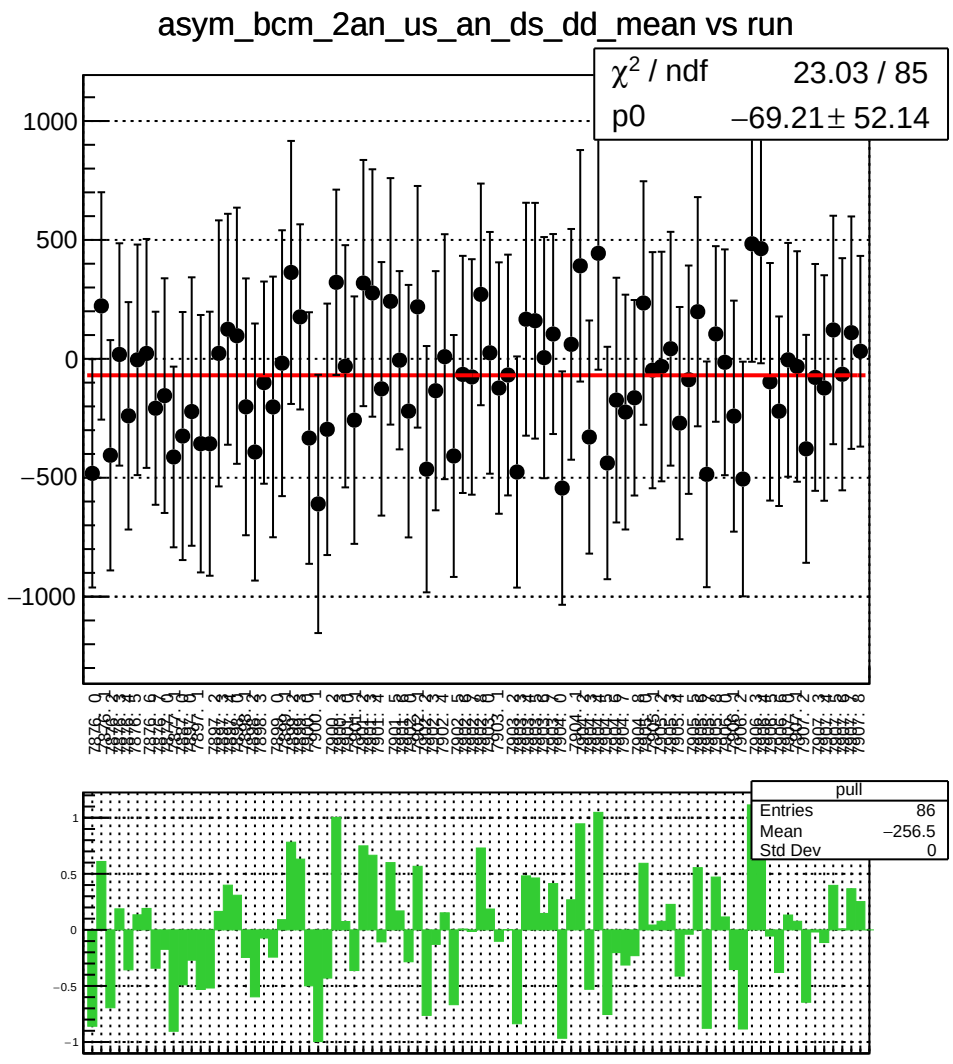

pull1D
Entries 86
Mean 0.9666
Std Dev 3.989

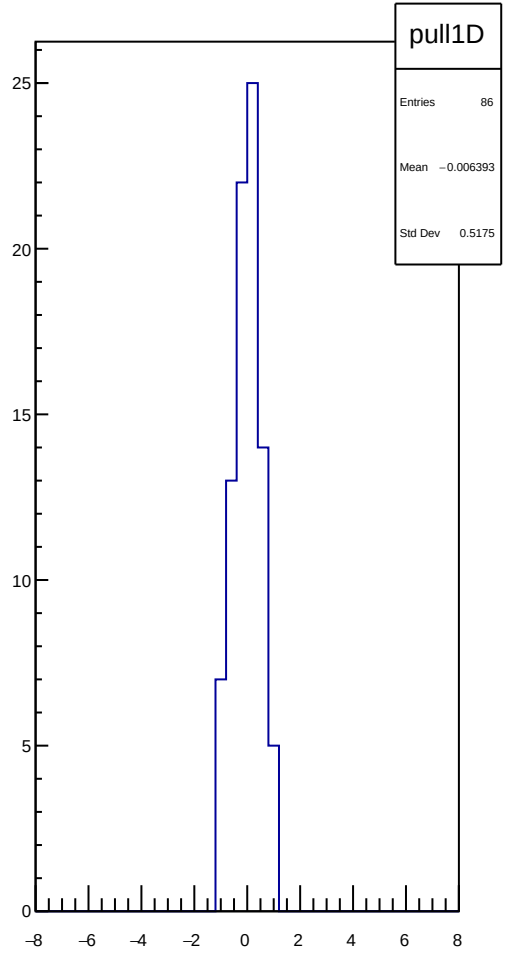

asym_bpm1i06WS_rms vs run
χ² / ndf 4263 / 85
p0 182.5 ± 0.1406
210
200
190
180
170
160

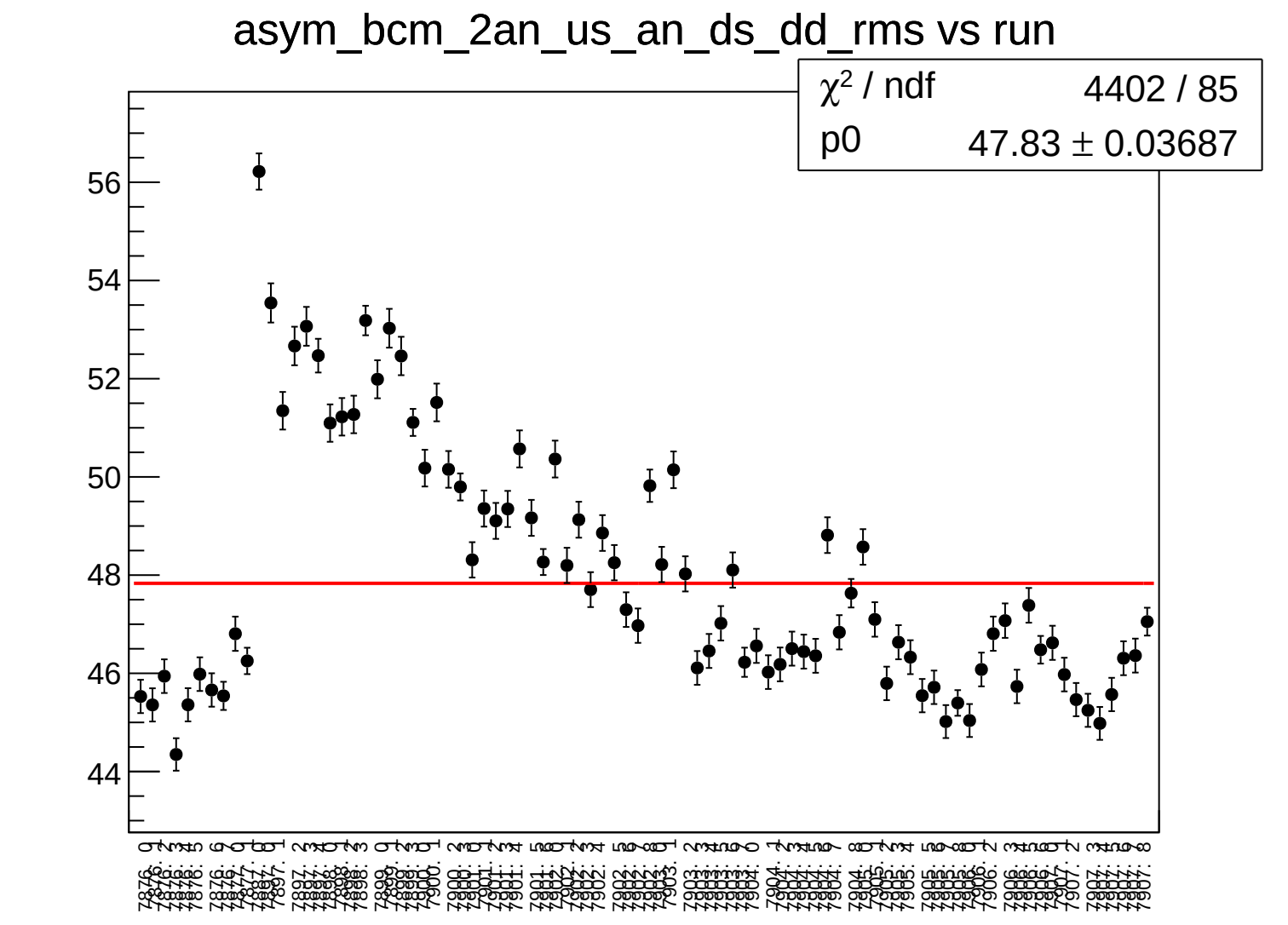

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 20.24 / 85
p0 −231.5 ± 150.4
pull
Entries 86
Mean −294.4
Std Dev 0

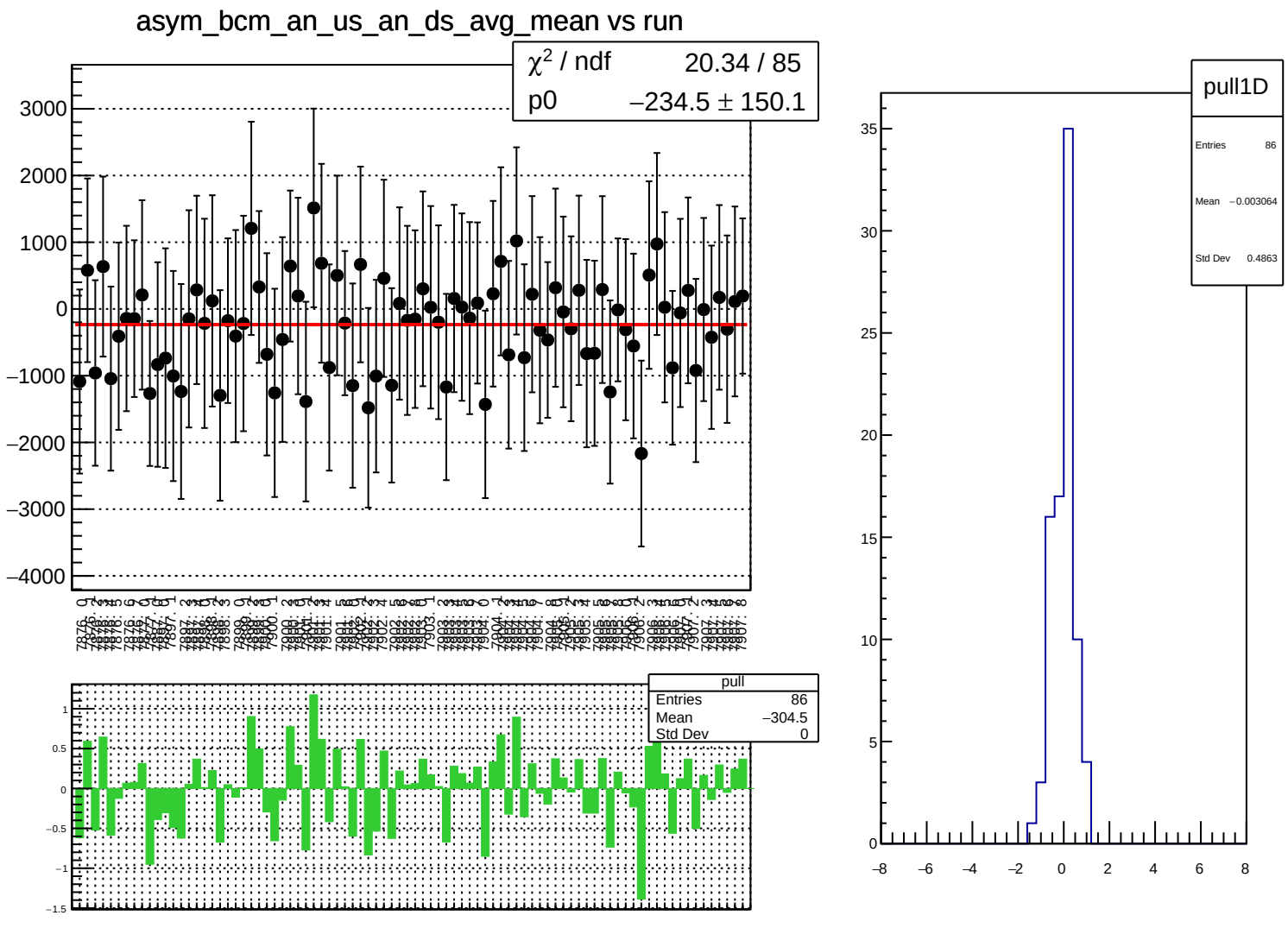

pull1D
Entries 86
Mean −0.003456
Std Dev 0.4852

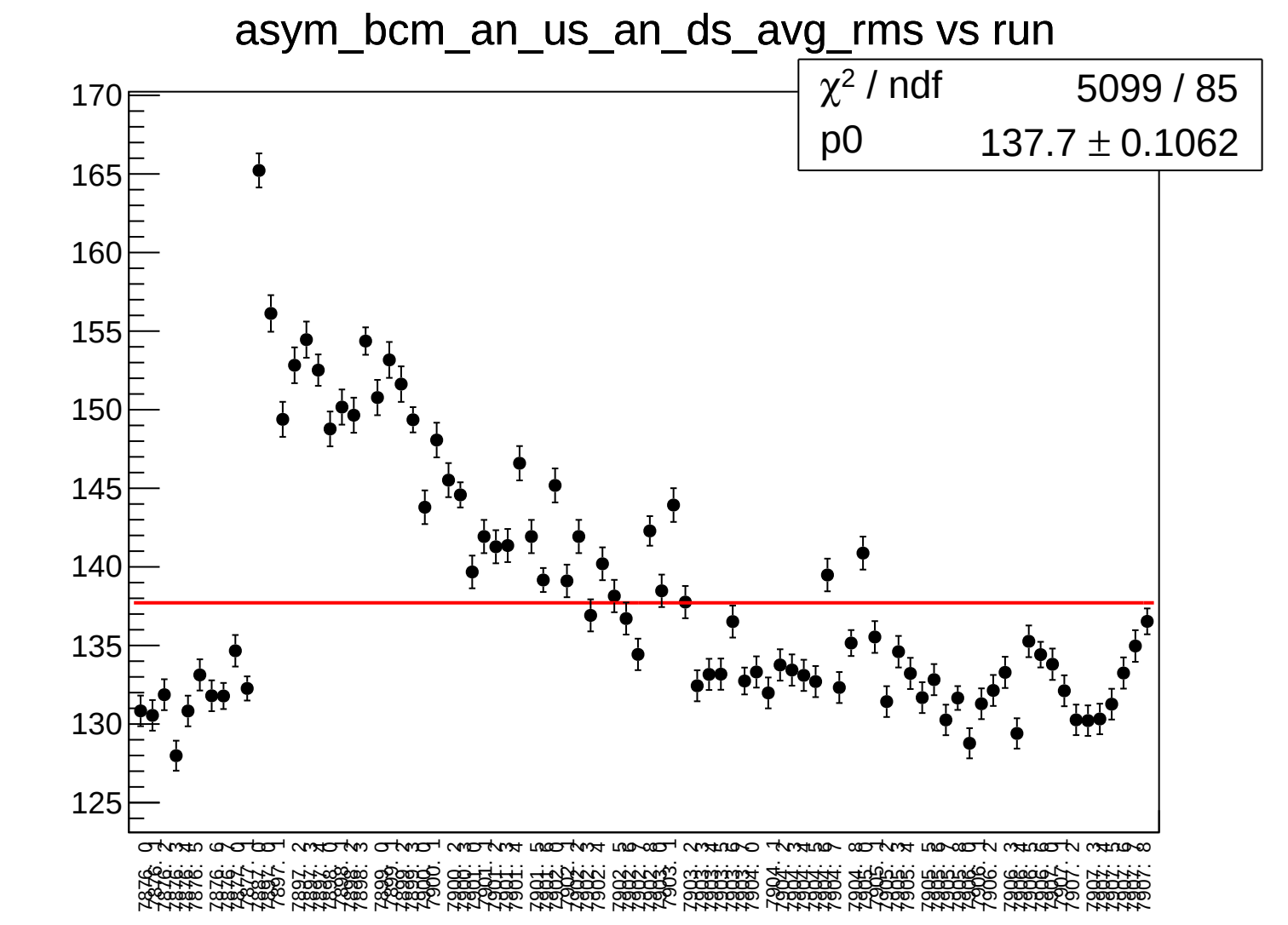

asym_bcm_2an_us_an_ds_avg_rms vs run
χ^2 / ndf 5050 / 85
p0 138 ± 0.1064
170
165
160
155
150
145
140
135
130
125

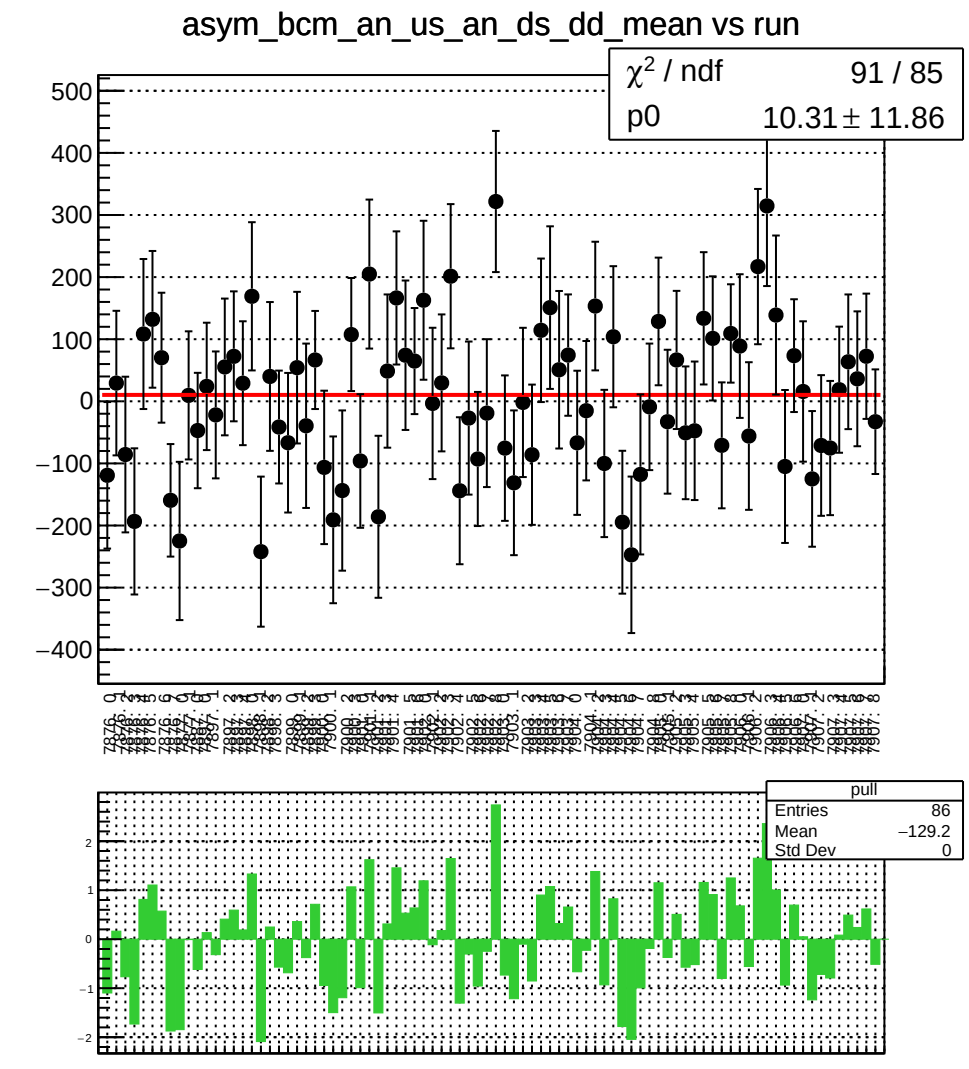

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 23.03 / 85
p0 −69.21 ± 52.14
1000
500
0
−500
−1000
pull
Entries 86
Mean −256.5
Std Dev 0
1
0.5
0
−0.5
−1

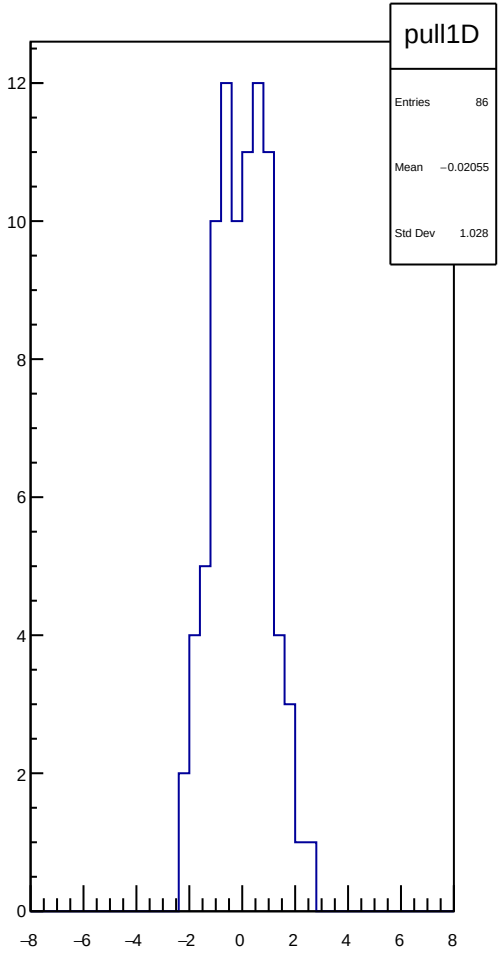

pull1D
Entries 86
Mean −0.006393
Std Dev 0.5175
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

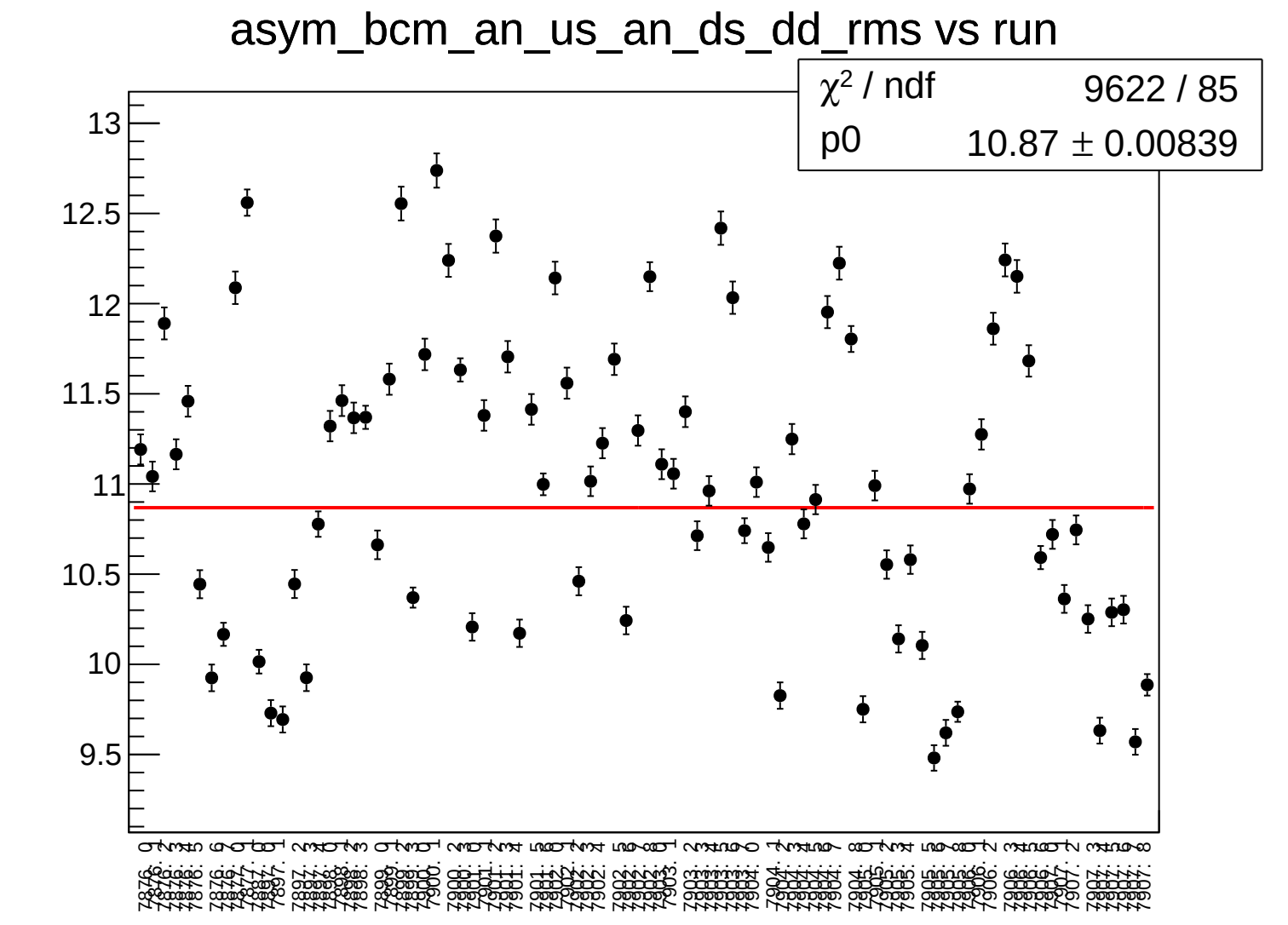

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 4402 / 85
p0 47.83 ± 0.03687
56
54
52
50
48
46
44

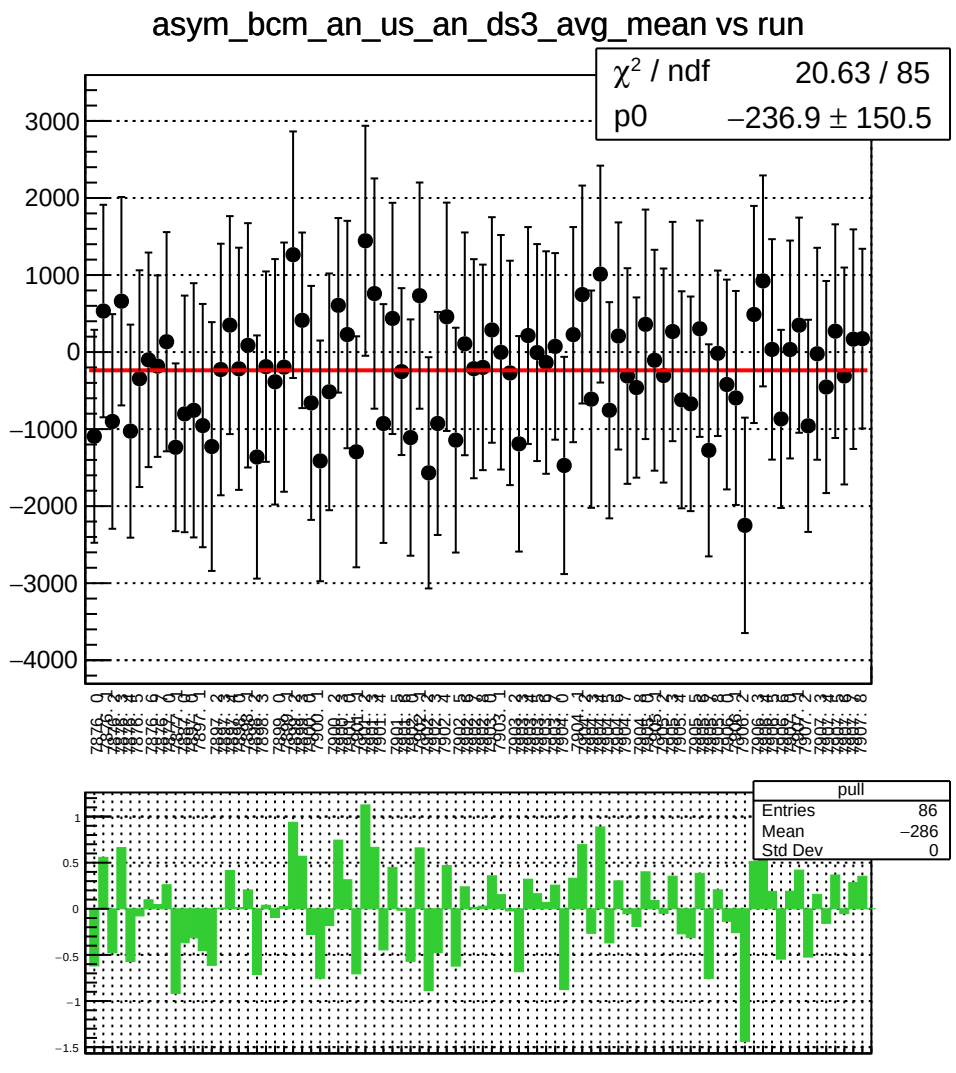

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 20.34 / 85
p0 −234.5 ± 150.1
pull
Entries 86
Mean −304.5
Std Dev 0
pull1D
Entries 86
Mean −0.003064
Std Dev 0.4863

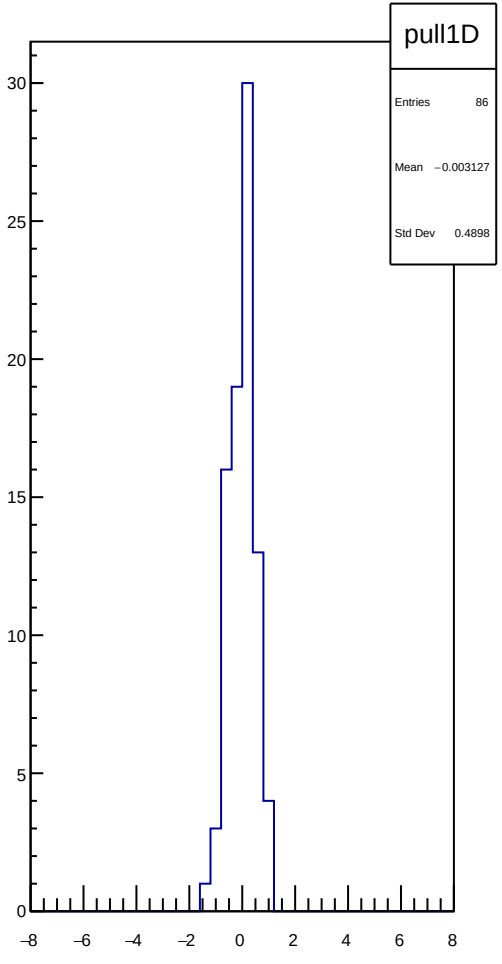

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 5099 / 85
p0 137.7 ± 0.1062
170
165
160
155
150
145
140
135
130
125

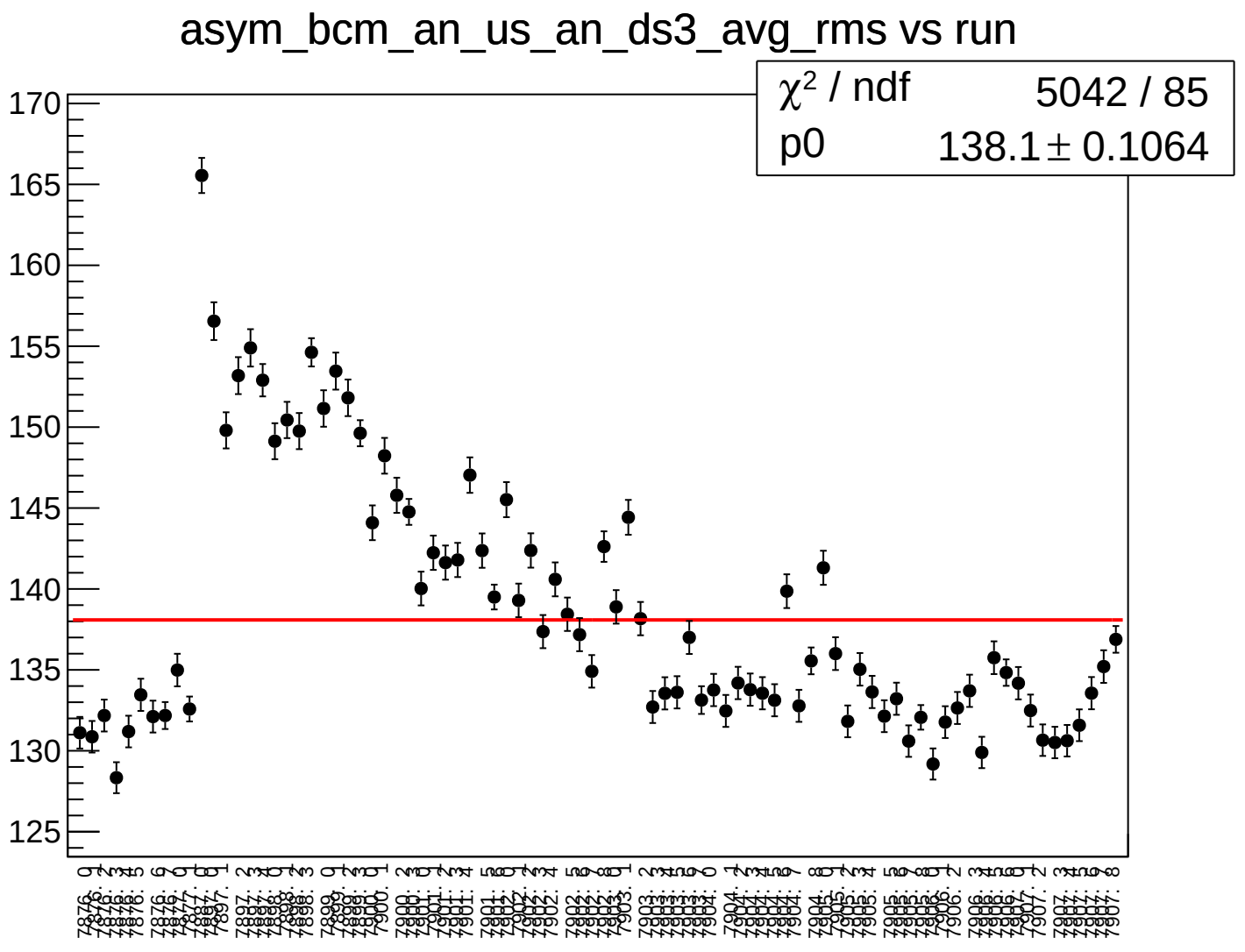

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 91 / 85
p0 10.31 ± 11.86
pull
Entries 86
Mean −129.2
Std Dev 0

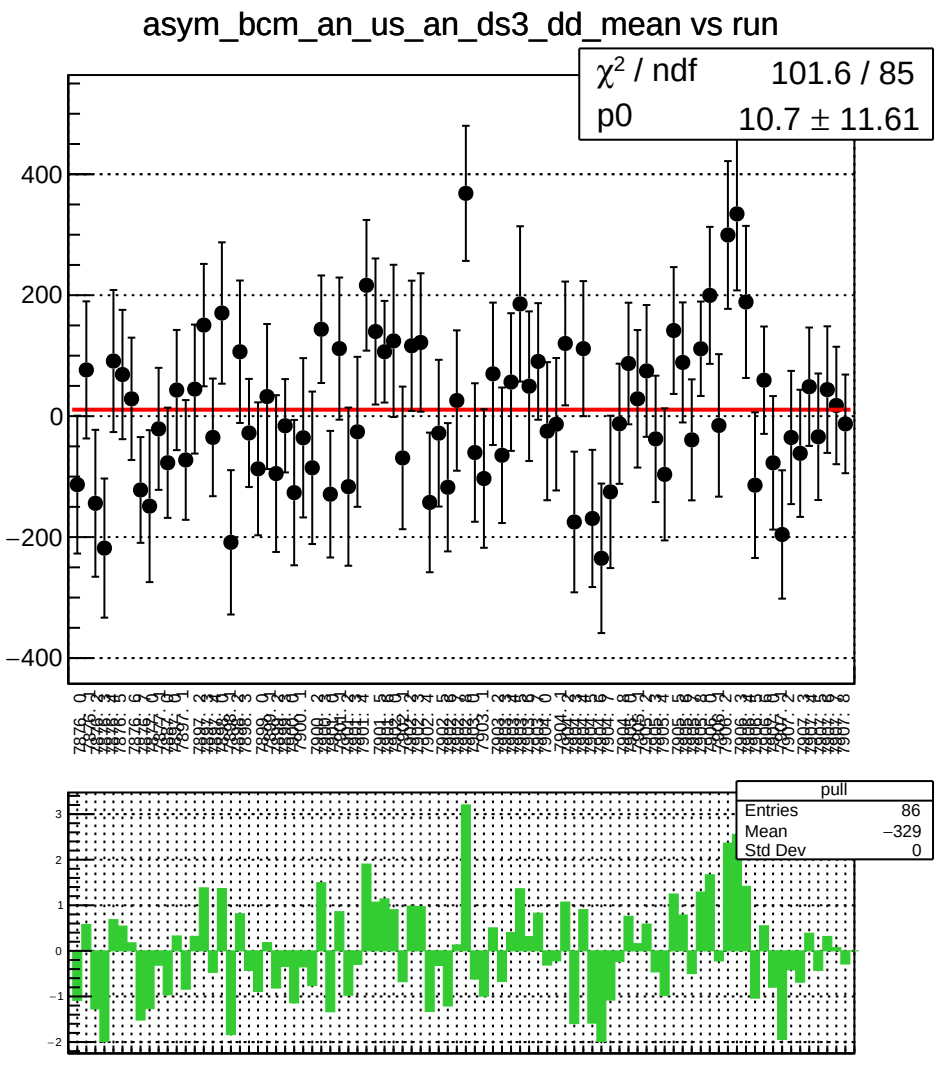

pull1D
Entries 86
Mean −0.02055
Std Dev 1.028

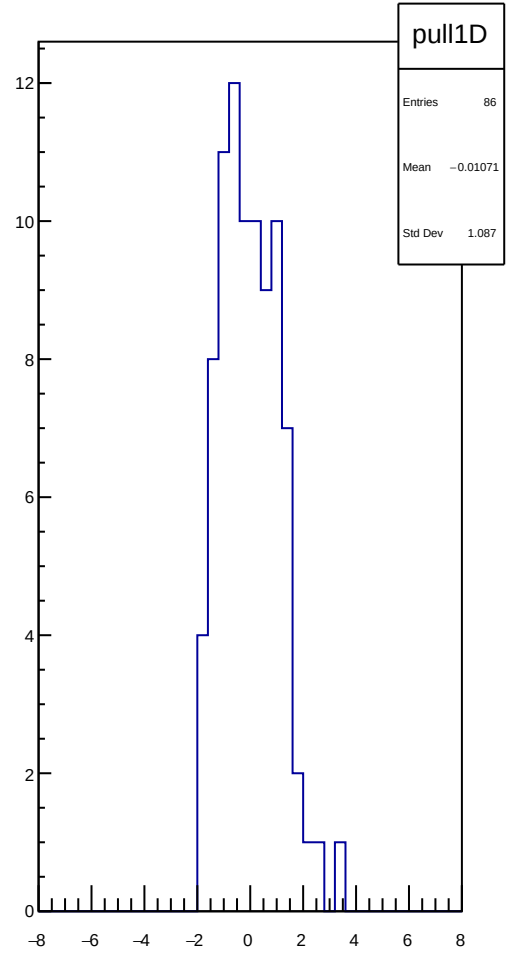

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 9622 / 85
p0 10.87 ± 0.00839
13
12.5
12
11.5
11
10.5
10
9.5

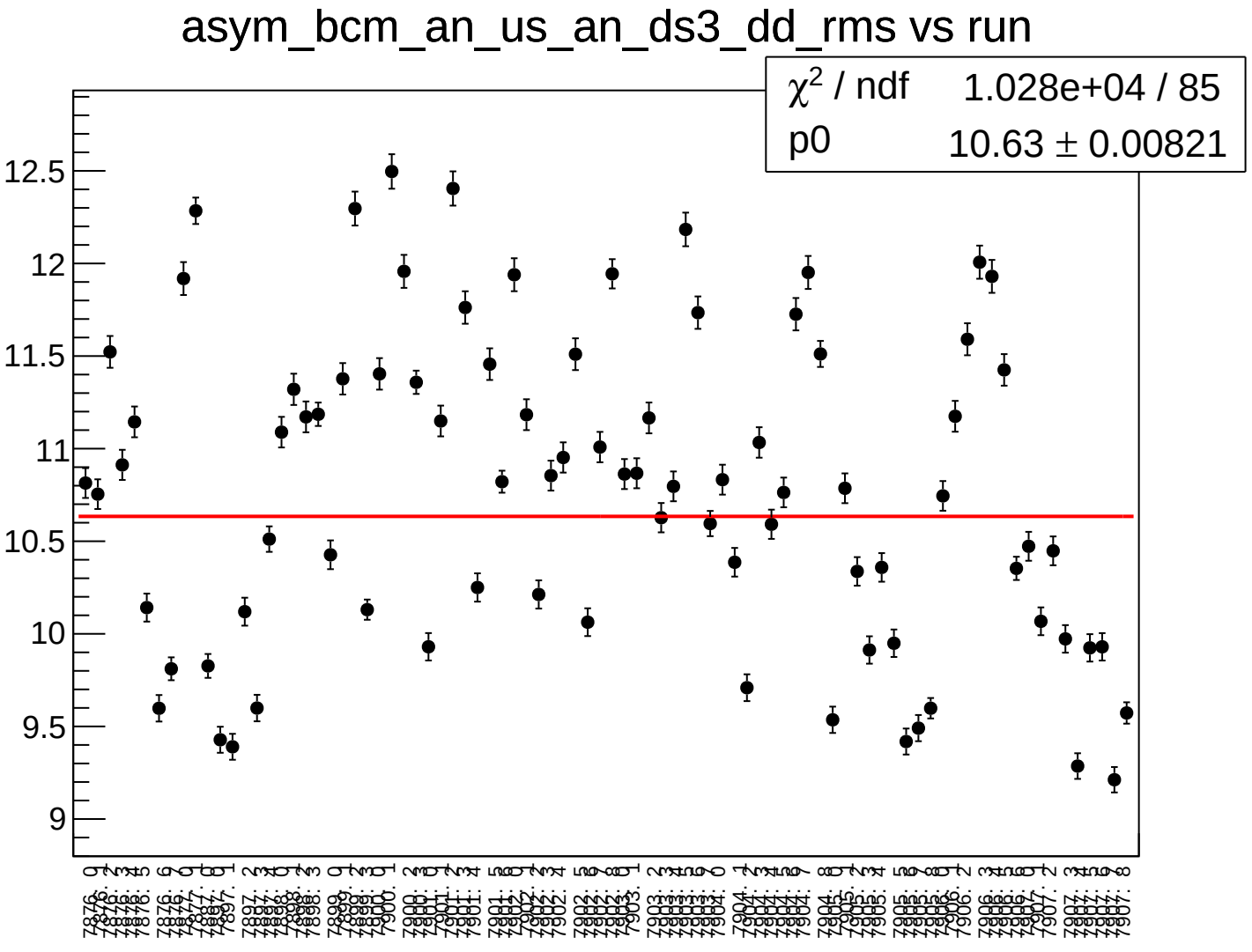

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 20.63 / 85
p0 −236.9 ± 150.5
pull
Entries 86
Mean −286
Std Dev 0

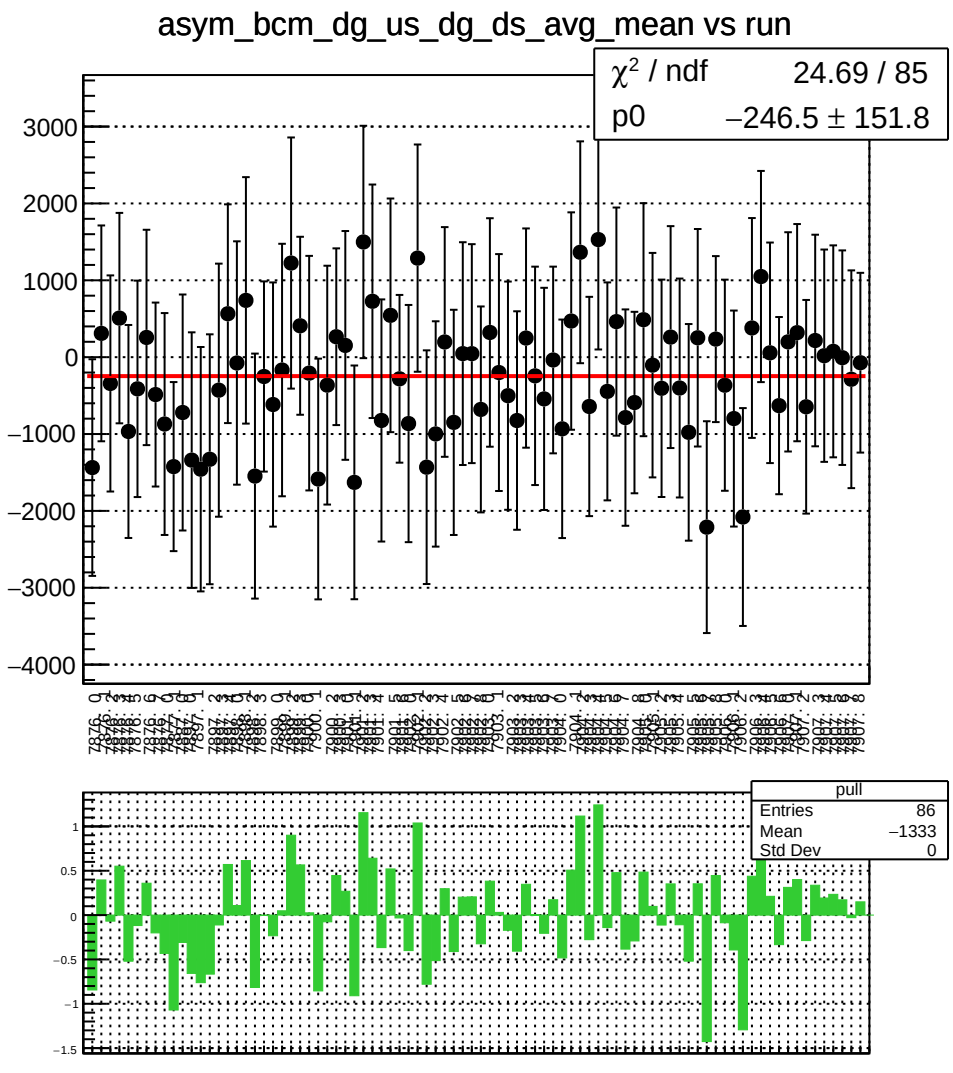

pull1D
Entries 86
Mean −0.003127
Std Dev 0.4898

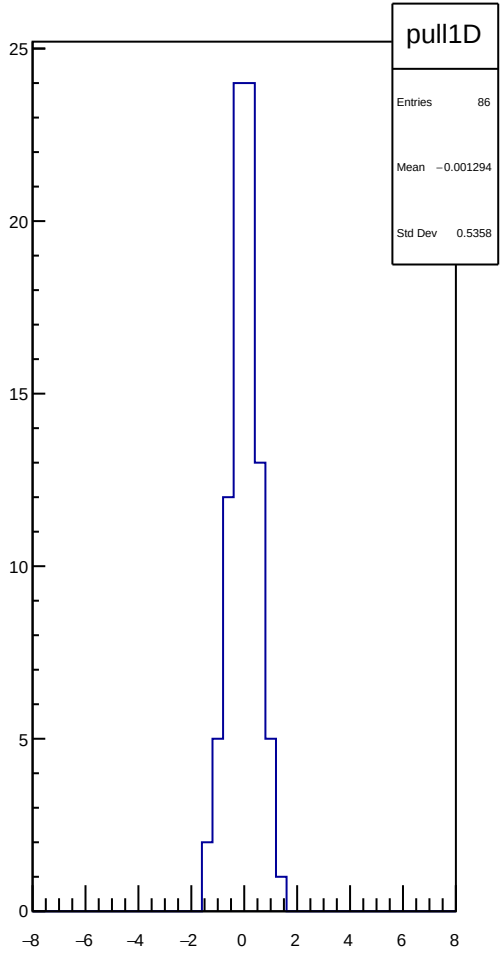

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 5042 / 85
p0 138.1 ± 0.1064
170
165
160
155
150
145
140
135
130
125

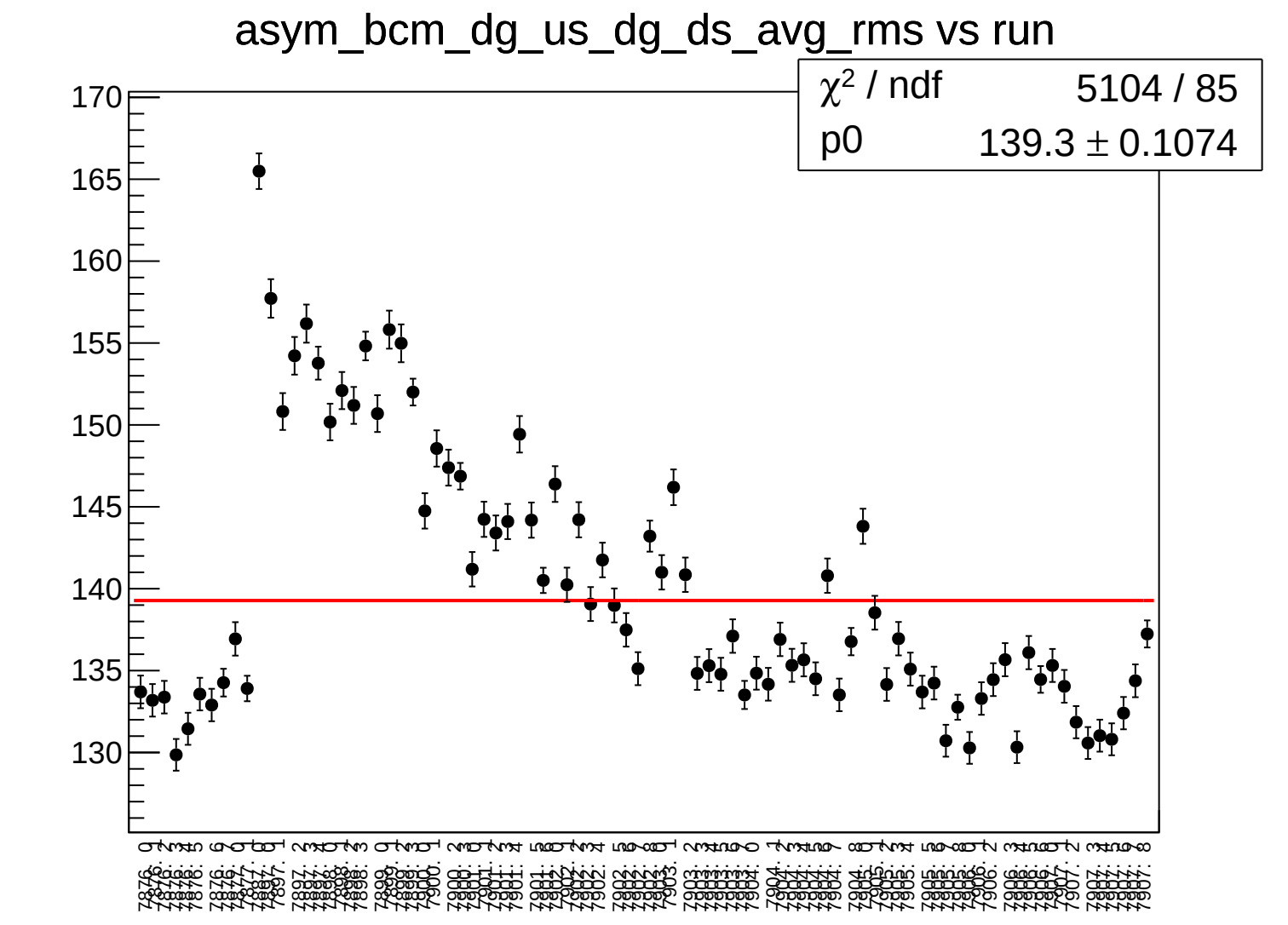

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 101.6 / 85
p0 10.7 ± 11.61
400
200
0
−200
−400
pull
Entries 86
Mean −329
Std Dev 0
3
2
1
0
−1
−2

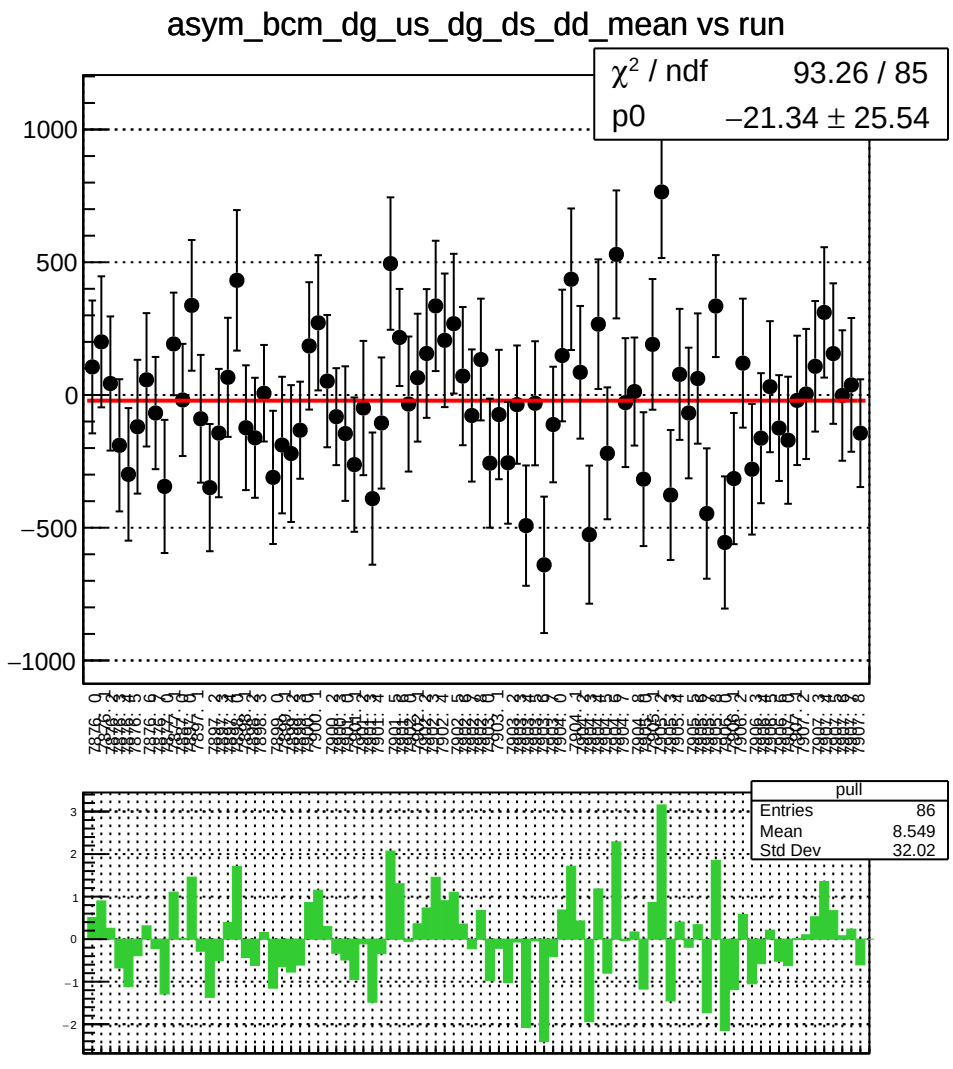

pull1D
Entries 86
Mean −0.01071
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

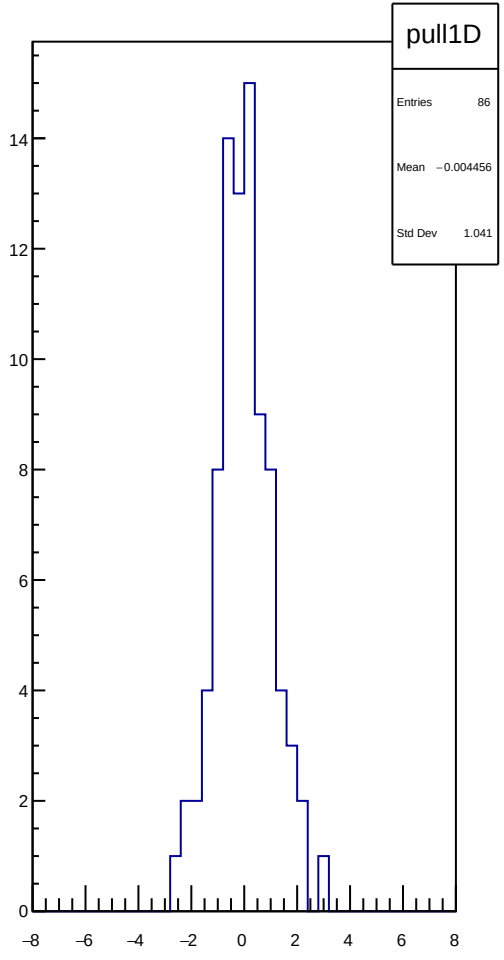

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.028e+04 / 85
p0 10.63 ± 0.00821
12.5
12
11.5
11
10.5
10
9.5
9

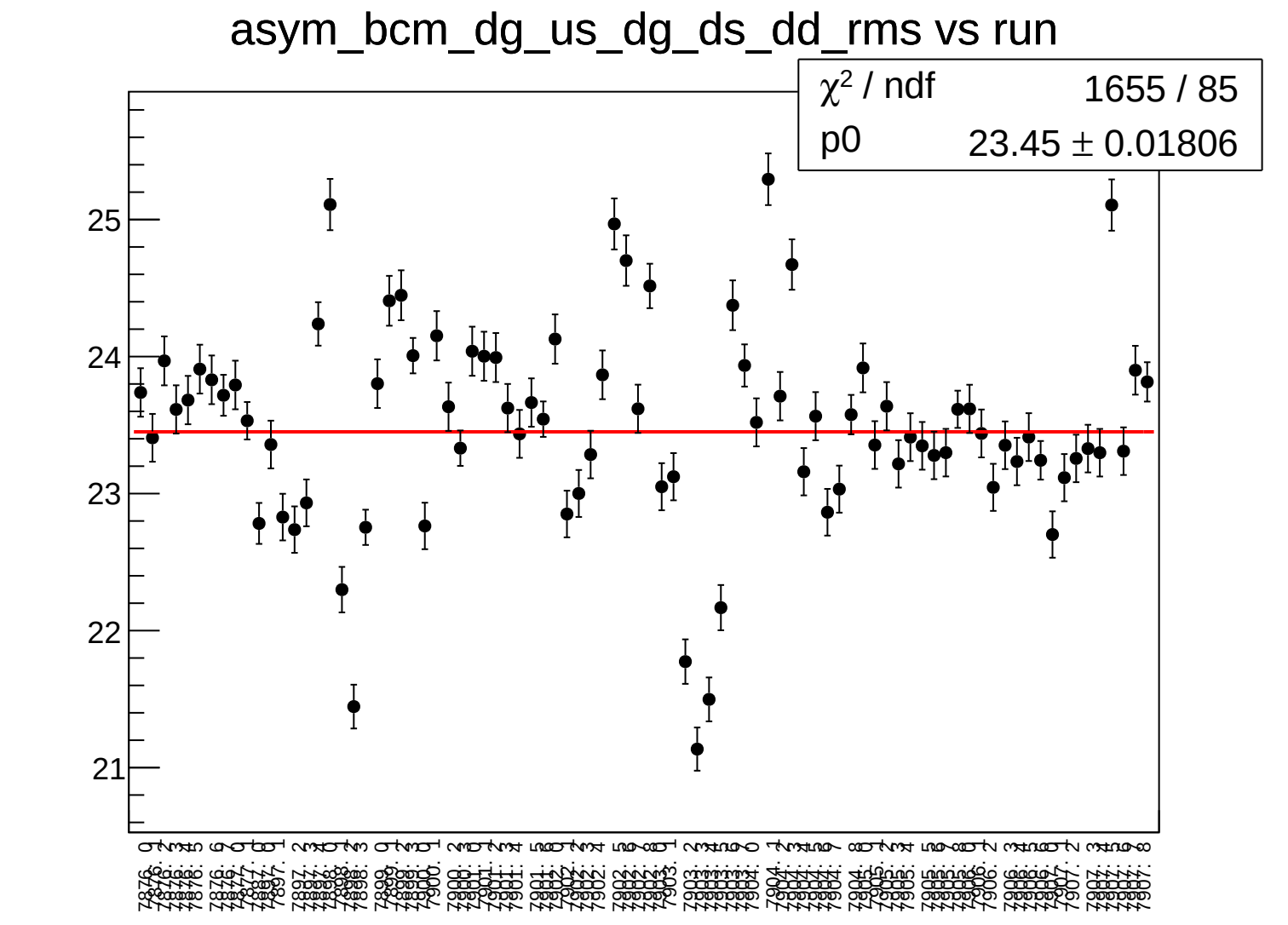

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 24.69 / 85
p0 −246.5 ± 151.8
pull
Entries 86
Mean −1333
Std Dev 0

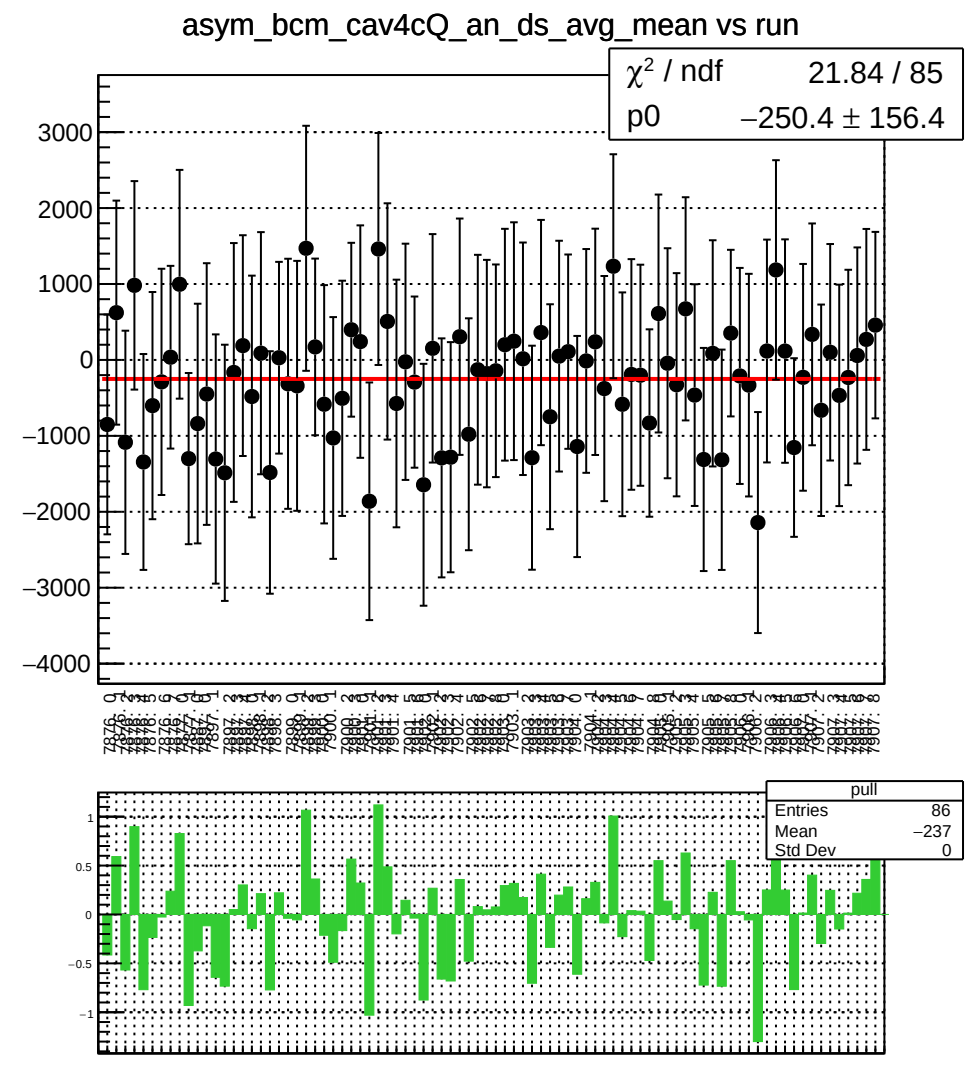

pull1D
Entries 86
Mean −0.001294
Std Dev 0.5358

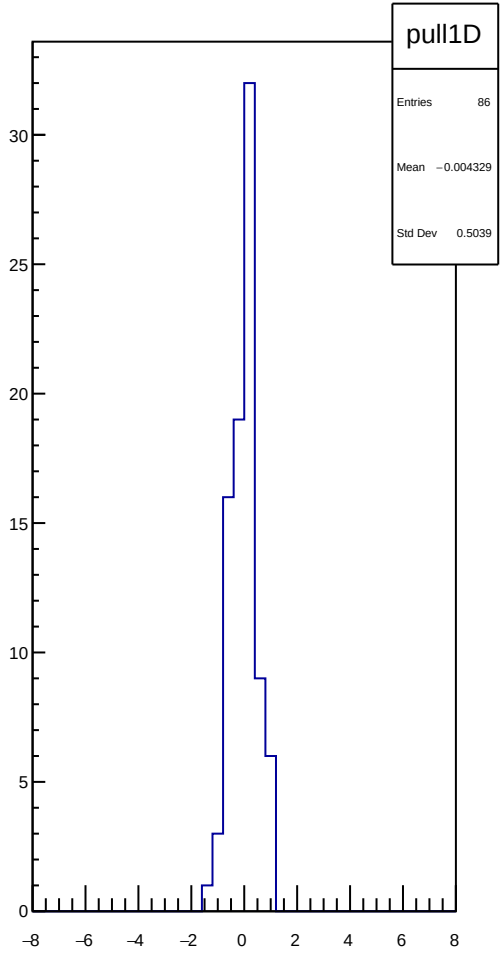

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 5104 / 85
p0 139.3 ± 0.1074
170
165
160
155
150
145
140
135
130

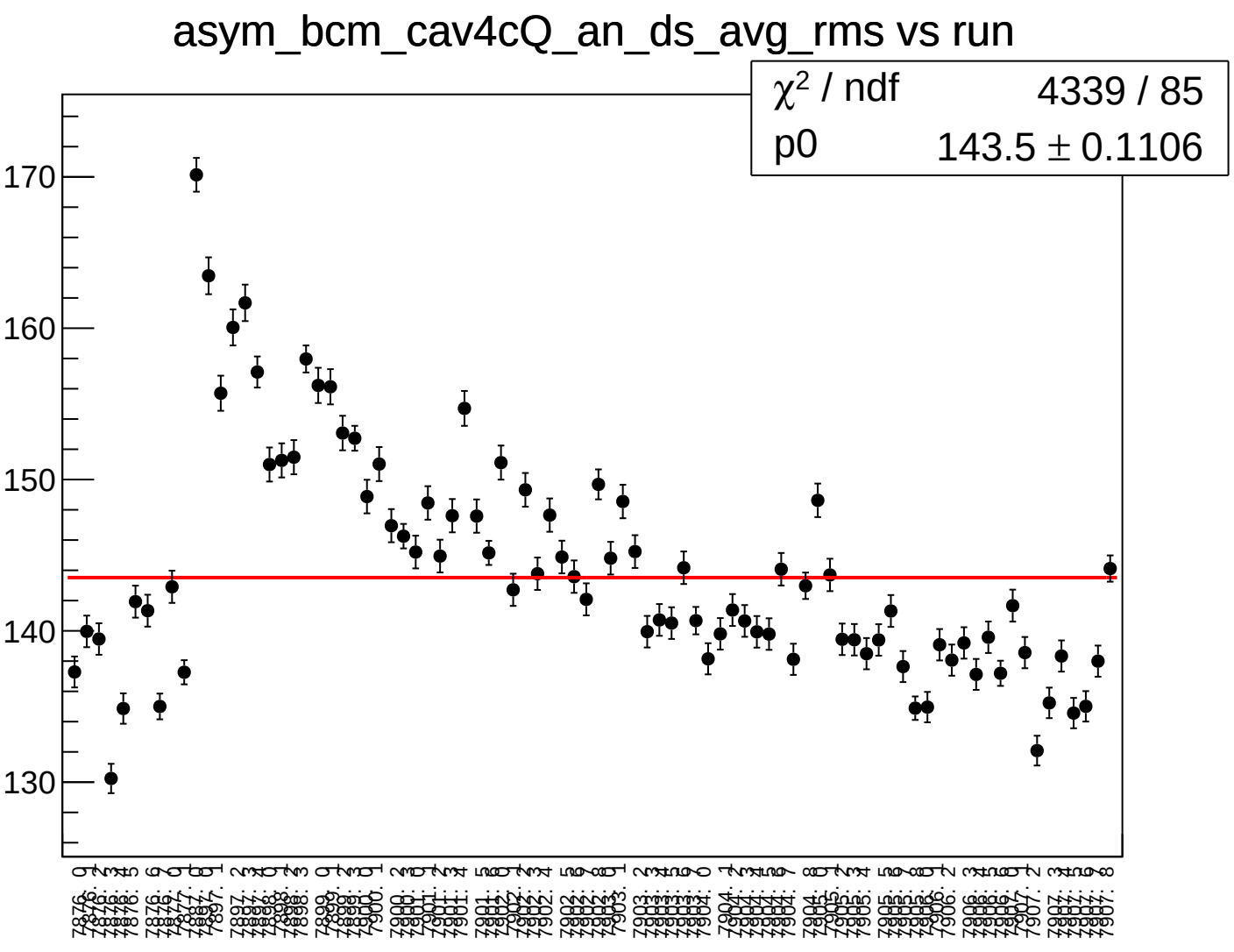

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 93.26 / 85
p0 −21.34 ± 25.54
1000
500
0
−500
−1000
pull
Entries 86
Mean 8.549
Std Dev 32.02
3
2
1
0
−1
−2

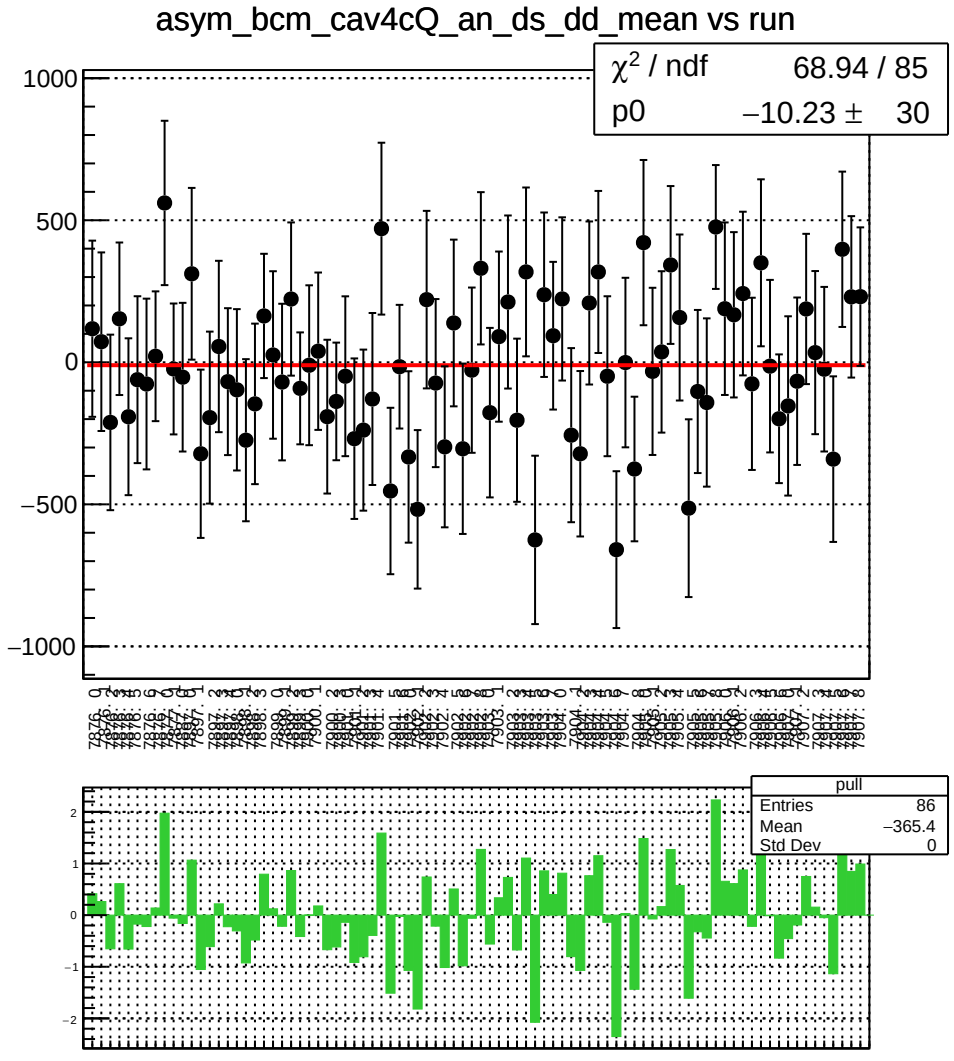

pull1D
Entries 86
Mean −0.004456
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

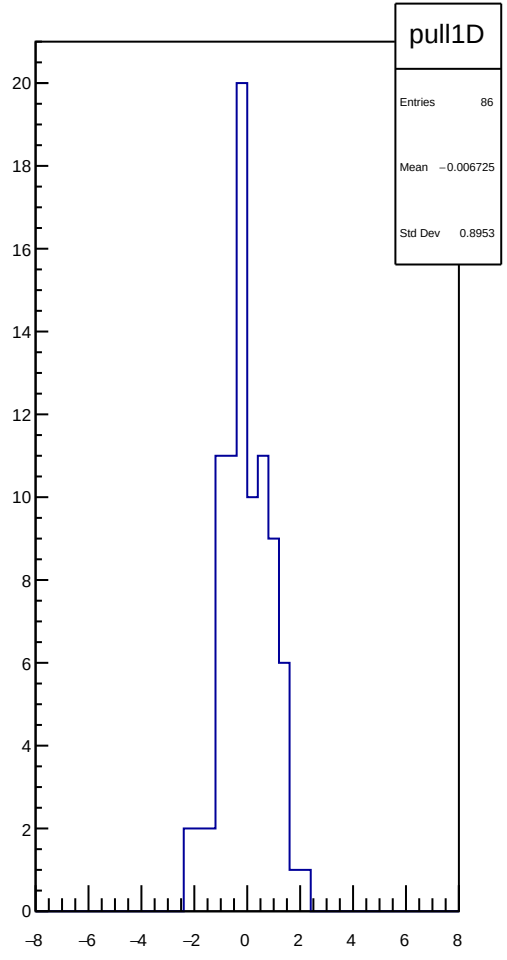

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1655 / 85
p0 23.45 ± 0.01806
25
24
23
22
21

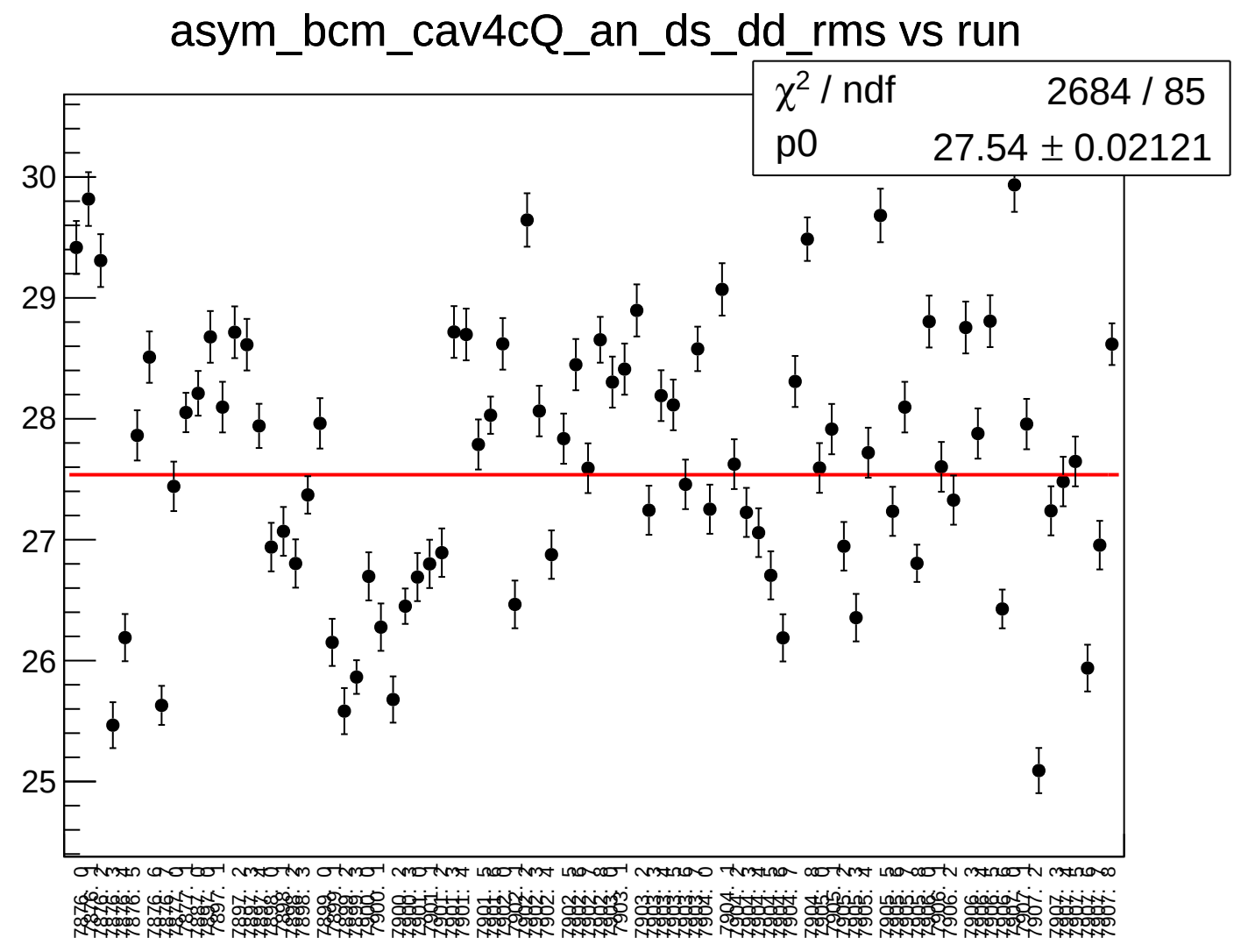

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 21.84 / 85
p0 −250.4 ± 156.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean −237
Std Dev 0
1
0.5
0
−0.5
−1

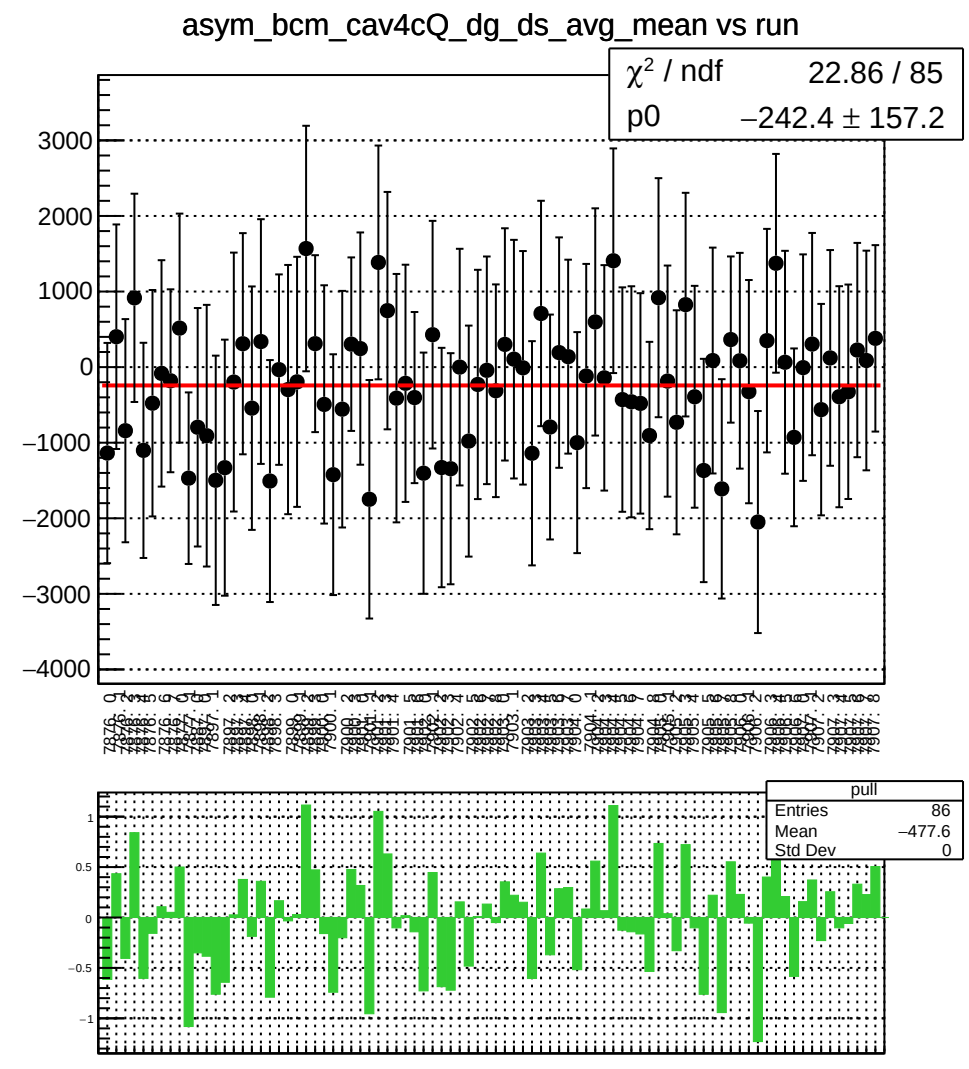

pull1D
Entries 86
Mean −0.004329
Std Dev 0.5039
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

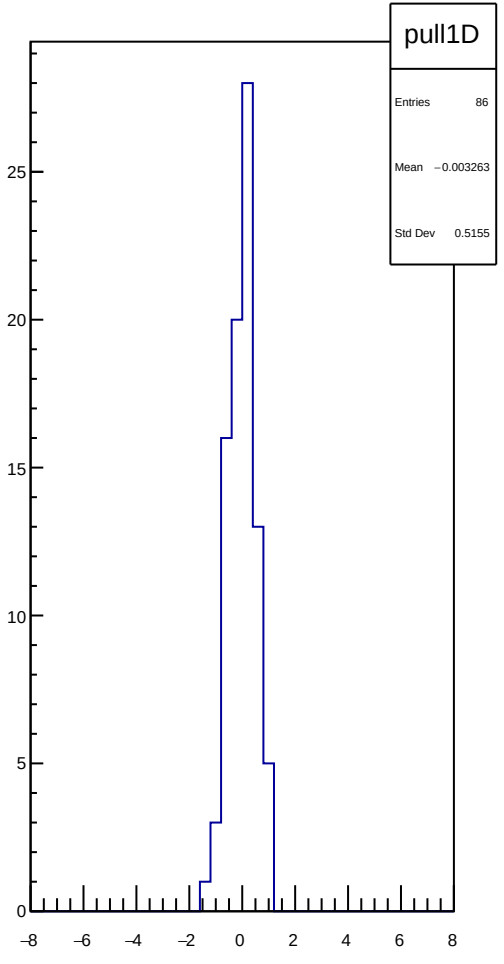

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ^2 / ndf 4339 / 85
p0 143.5 ± 0.1106
170
160
150
140
130

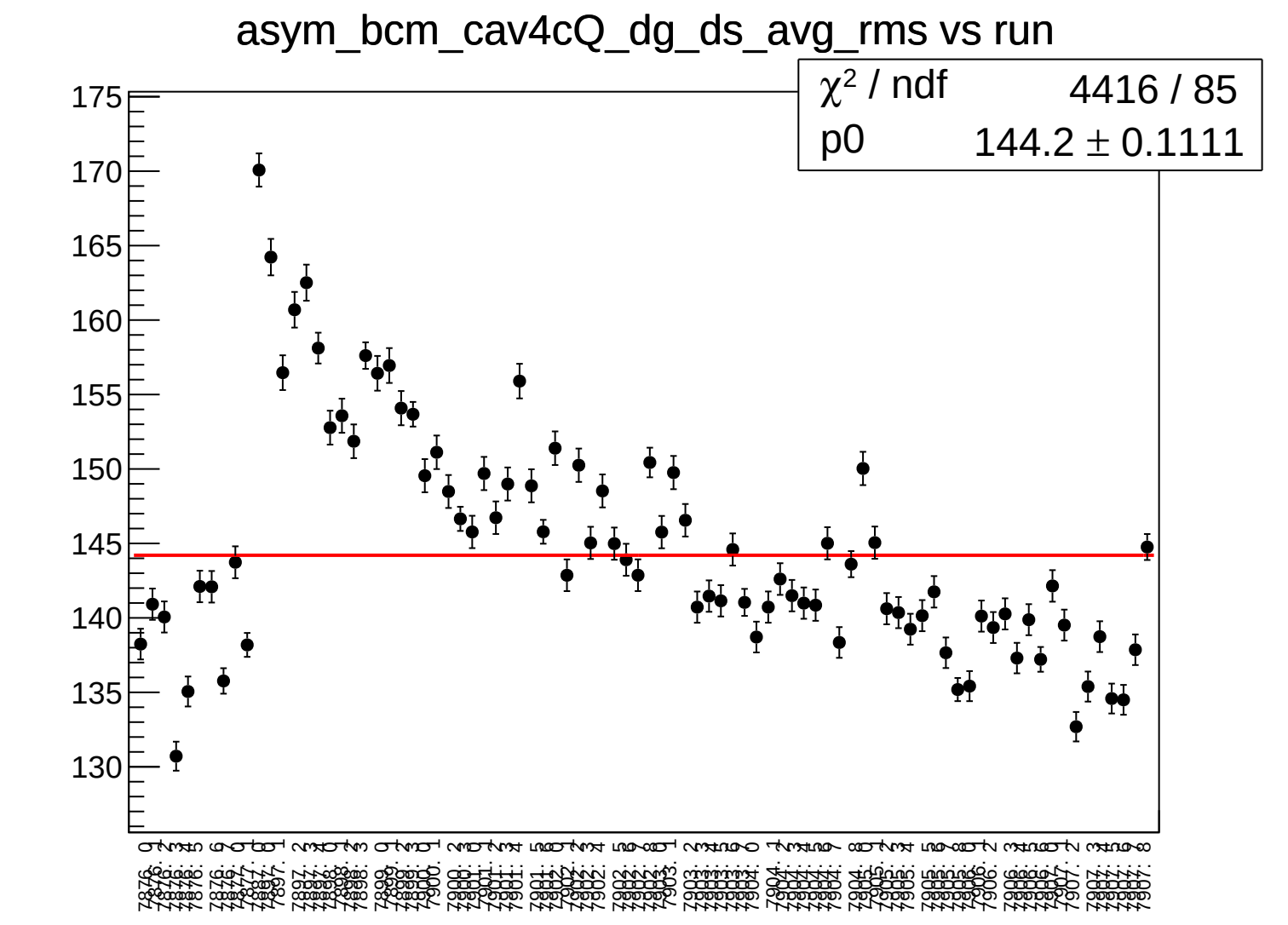

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 68.94 / 85
p0 −10.23 ± 30
1000
500
0
−500
−1000
pull
Entries 86
Mean −365.4
Std Dev 0
2
1
0
−1
−2

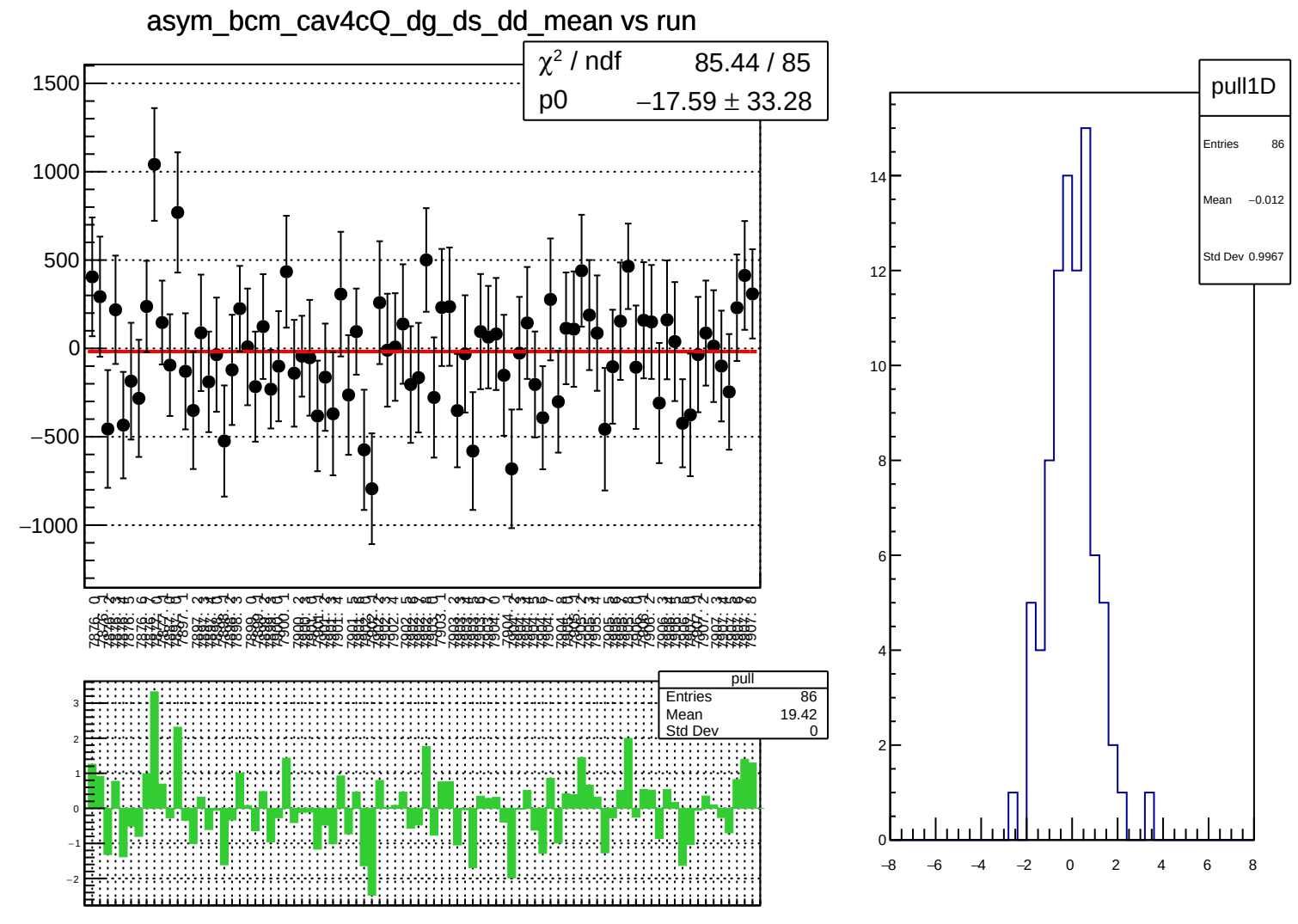

pull1D
Entries 86
Mean −0.006725
Std Dev 0.8953
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

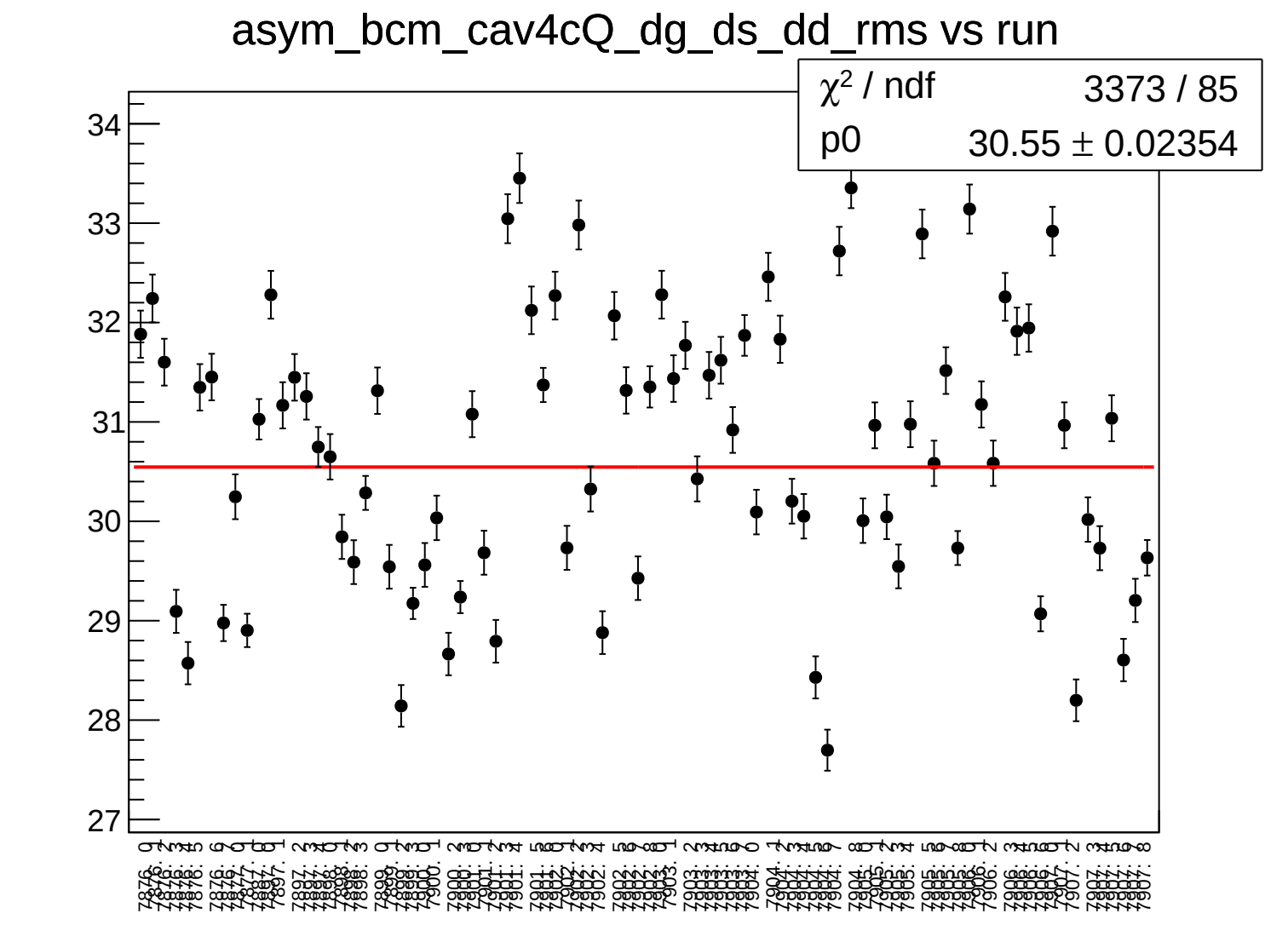

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2684 / 85
p0 27.54 ± 0.02121
30
29
28
27
26
25

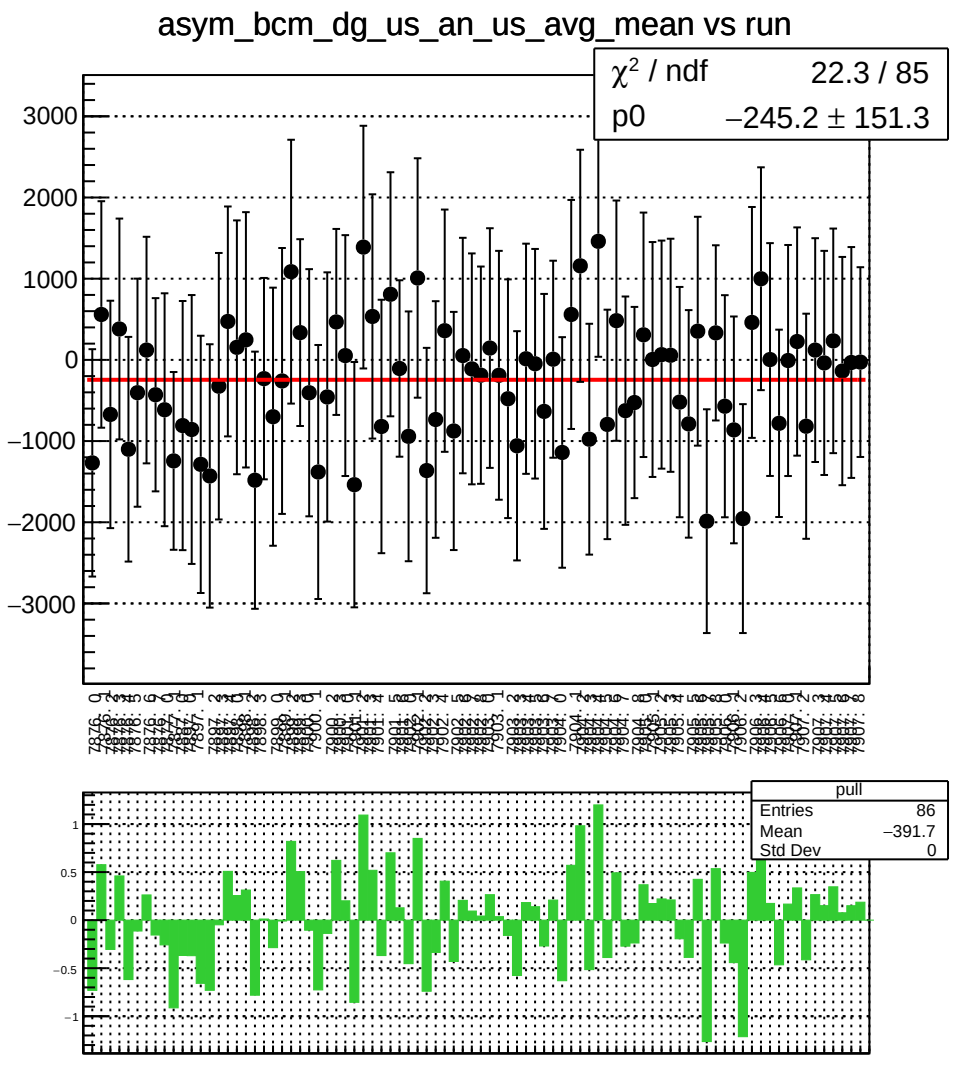

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 22.86 / 85
p0 −242.4 ± 157.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean −477.6
Std Dev 0
1
0.5
0
−0.5
−1

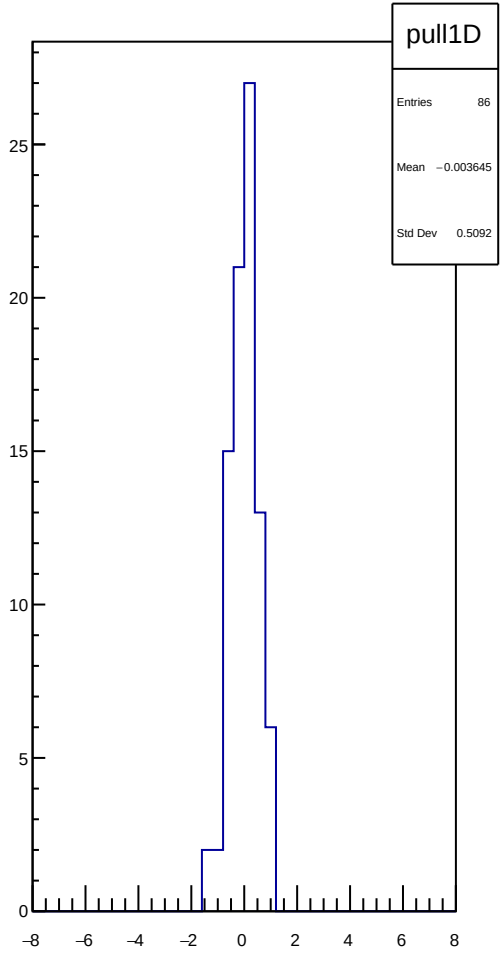

pull1D
Entries 86
Mean −0.003263
Std Dev 0.5155
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

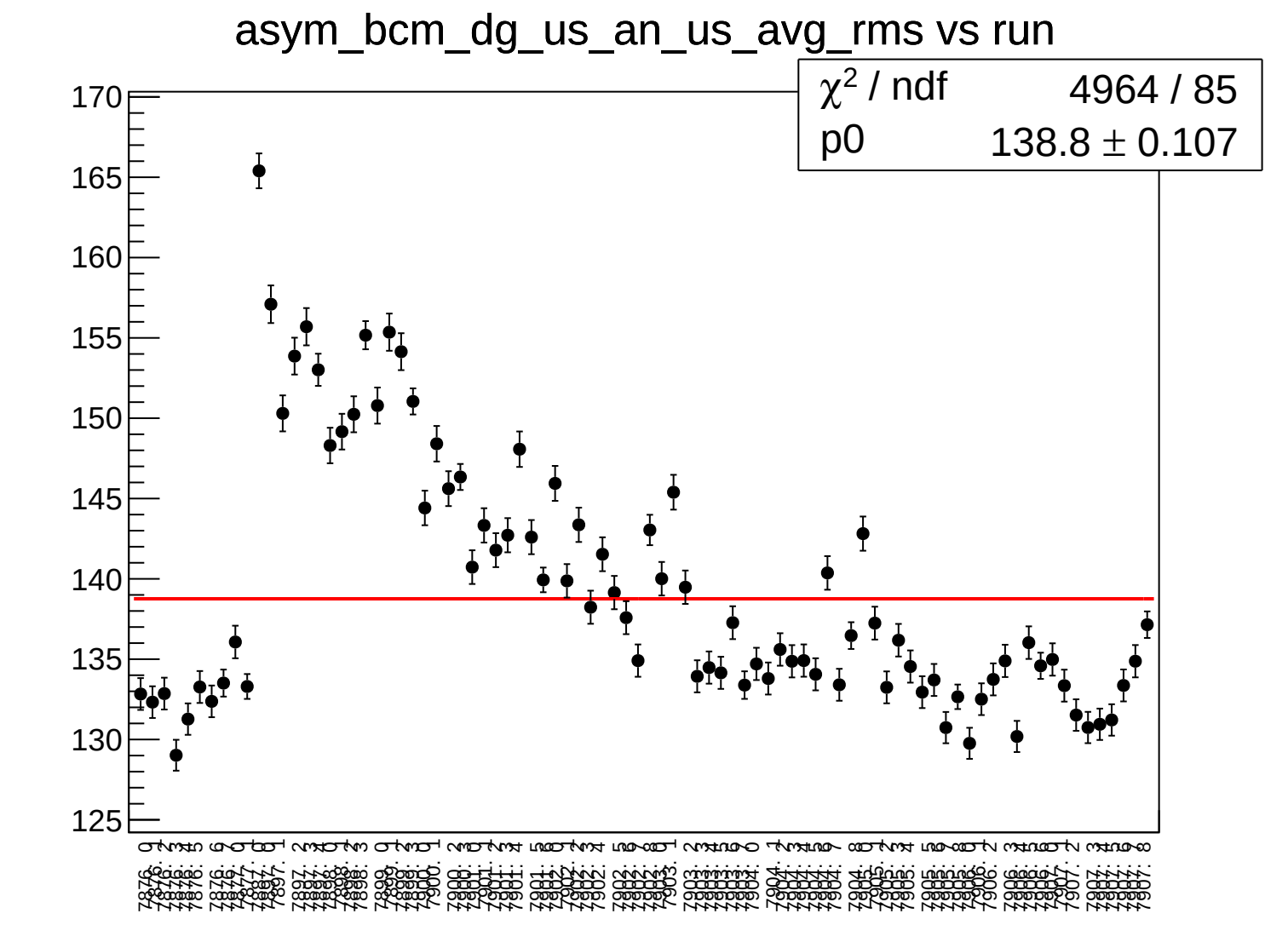

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 4416 / 85
p0 144.2 ± 0.1111
175
170
165
160
155
150
145
140
135
130

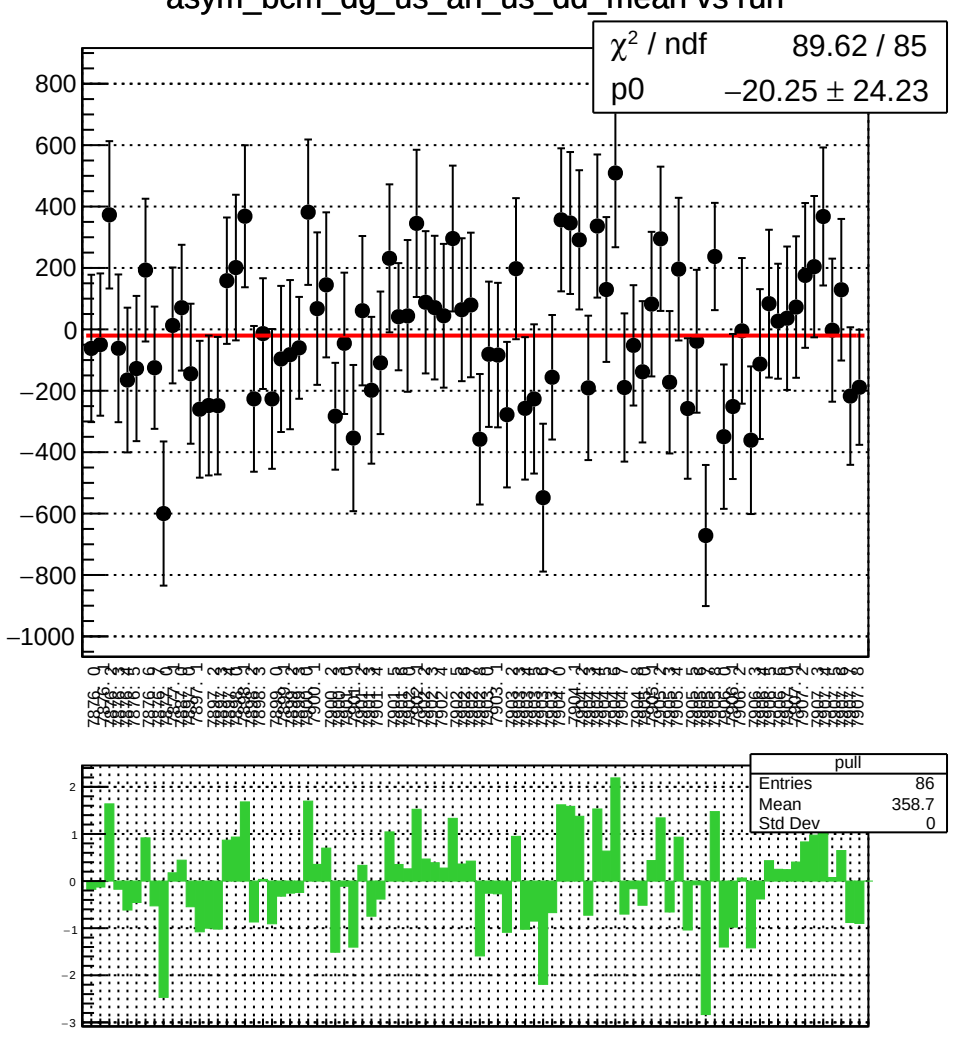

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 85.44 / 85
p0 −17.59 ± 33.28
1500
1000
500
0
−500
−1000
pull
Entries 86
Mean 19.42
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.012
Std Dev 0.9967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

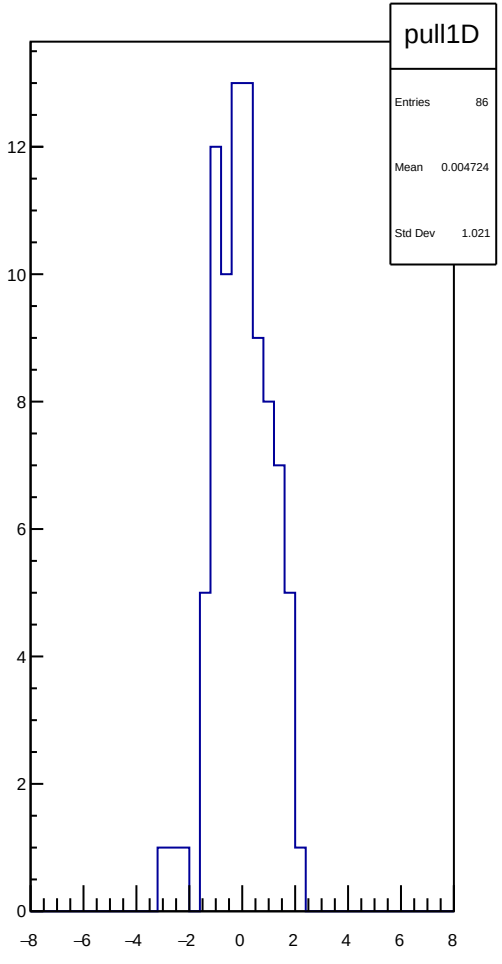

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 3373 / 85
p0 30.55 ± 0.02354
34
33
32
31
30
29
28
27

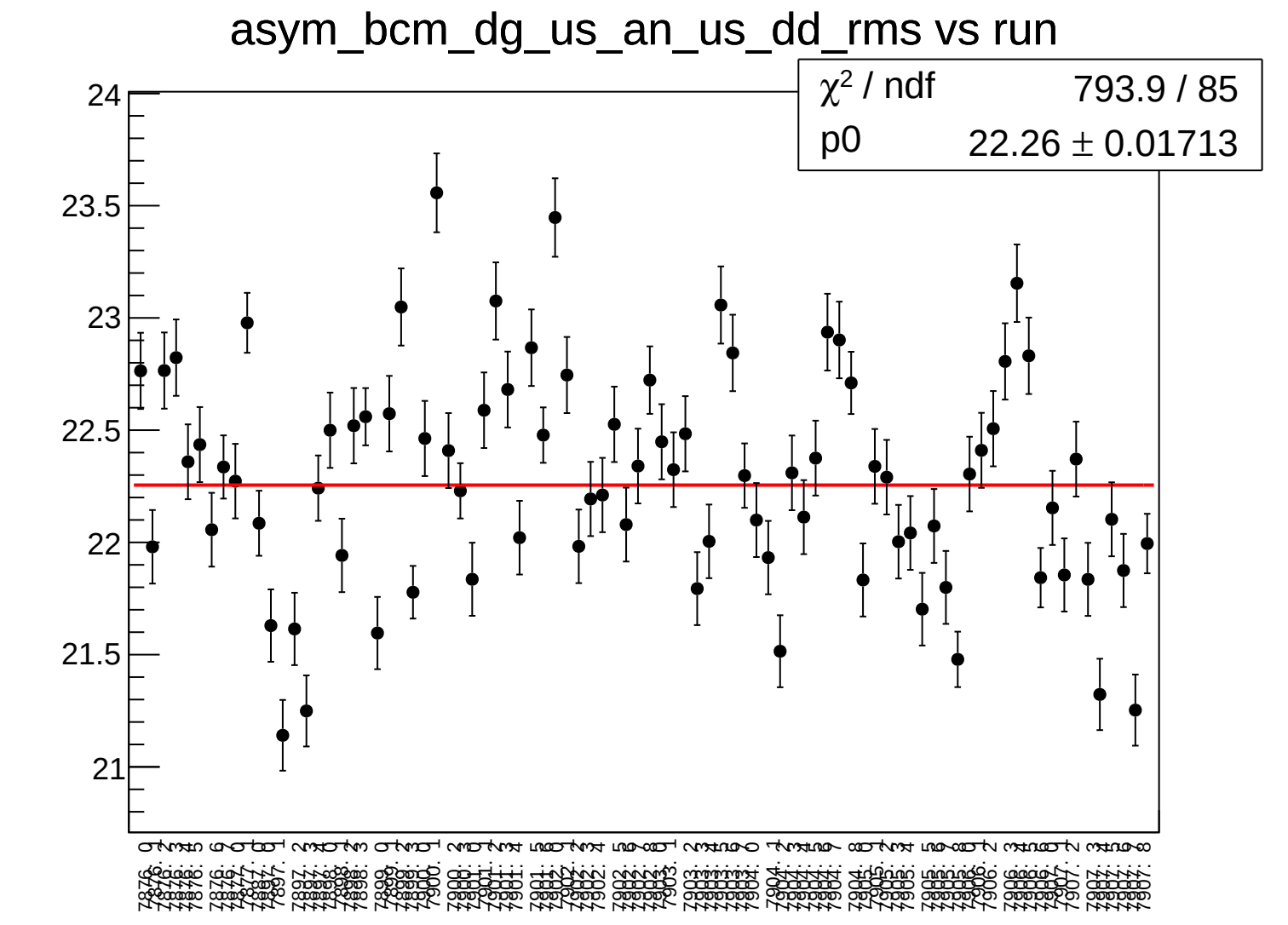

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 22.3 / 85
p0 −245.2 ± 151.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −391.7
Std Dev 0
1
0.5
0
−0.5
−1

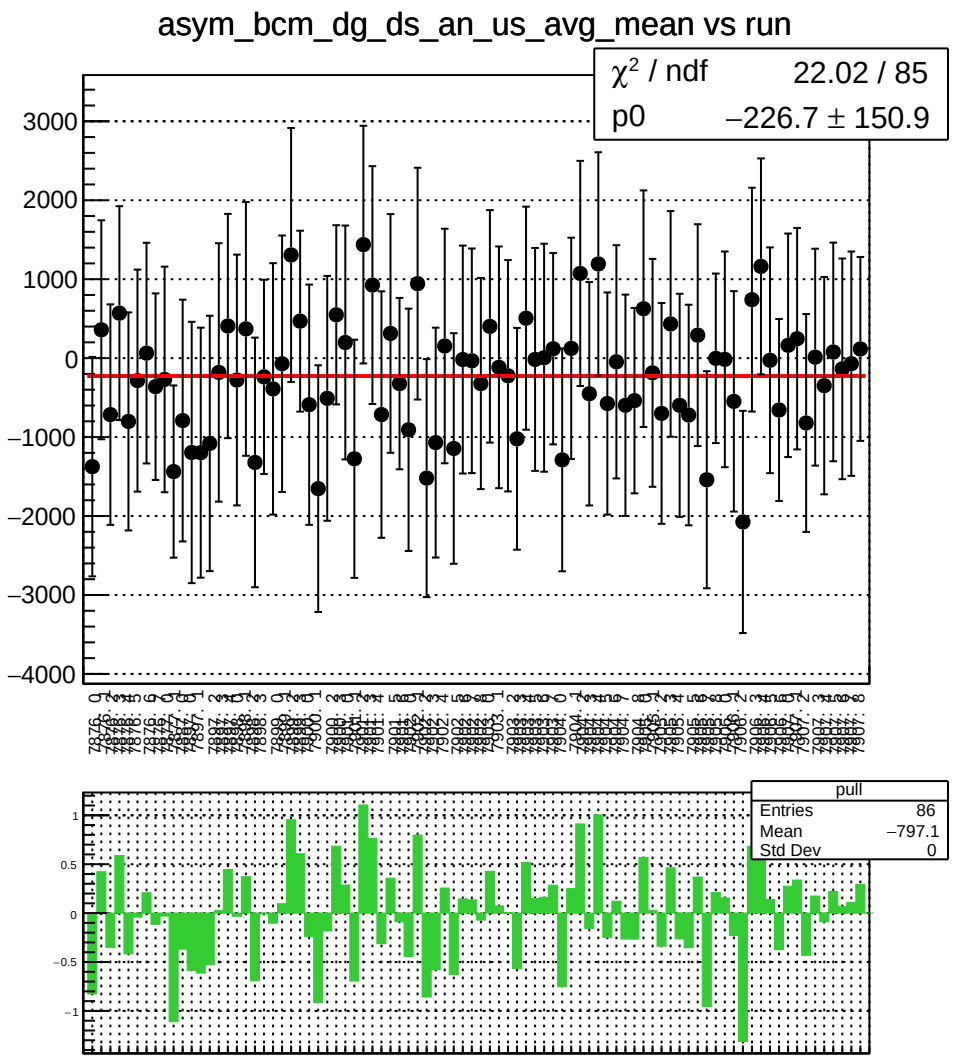

pull1D
Entries 86
Mean −0.003645
Std Dev 0.5092
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

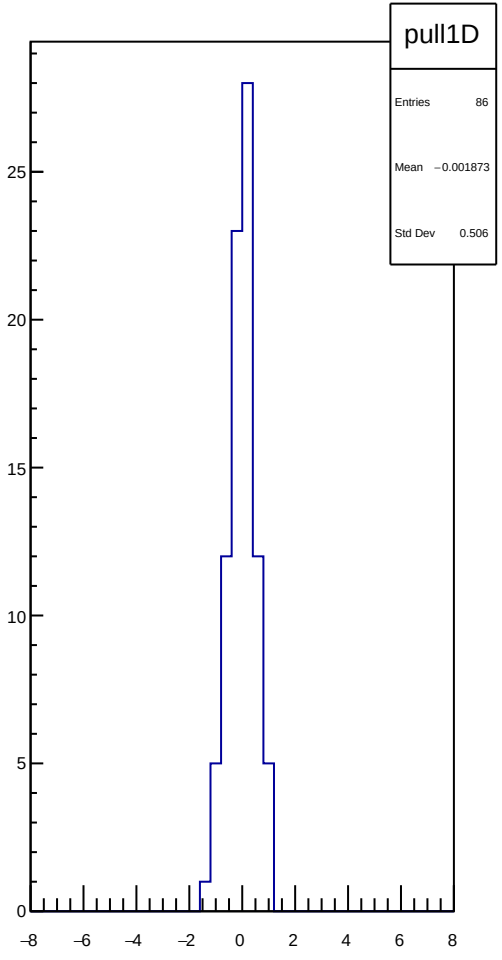

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 4964 / 85
p0 138.8 ± 0.107
170
165
160
155
150
145
140
135
130
125

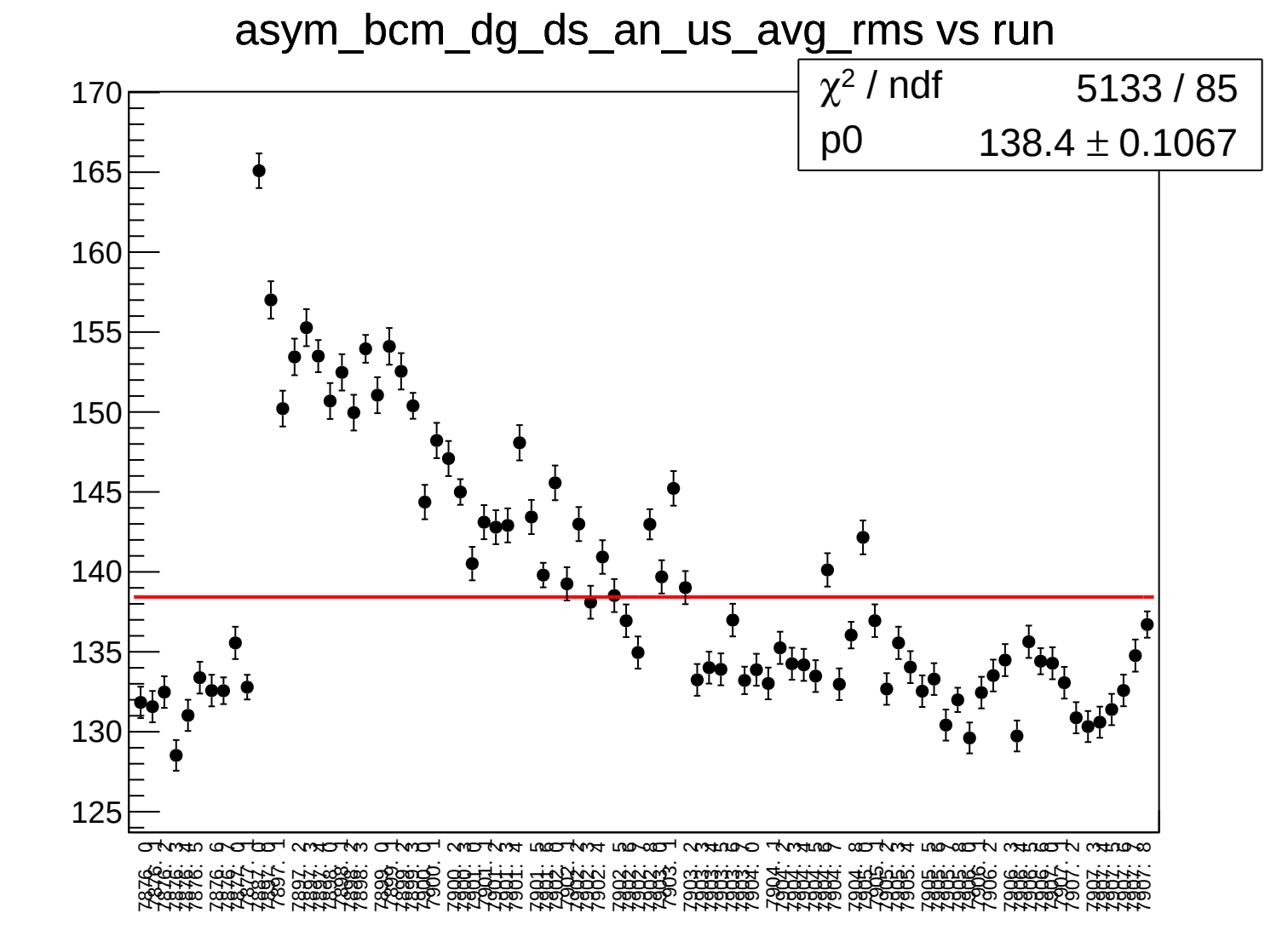

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 89.62 / 85
p0 −20.25 ± 24.23
pull
Entries 86
Mean 358.7
Std Dev 0

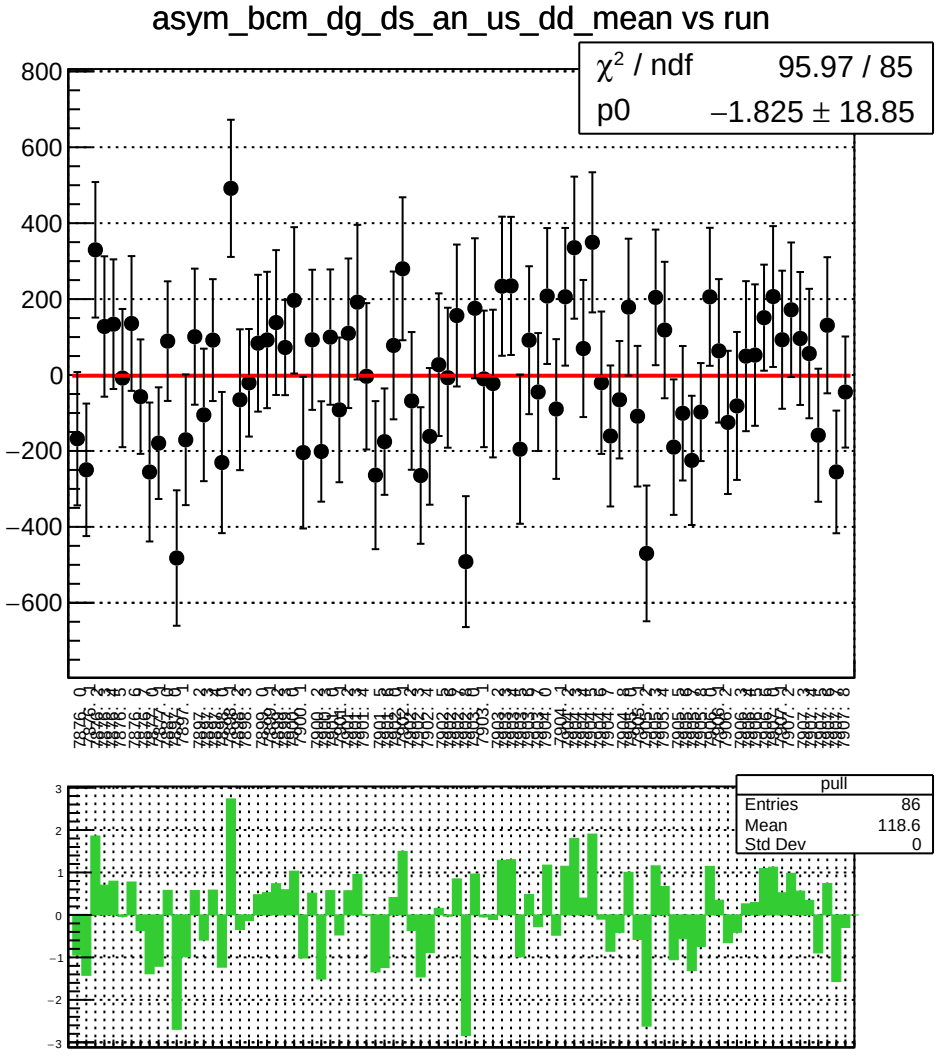

pull1D
Entries 86
Mean 0.004724
Std Dev 1.021

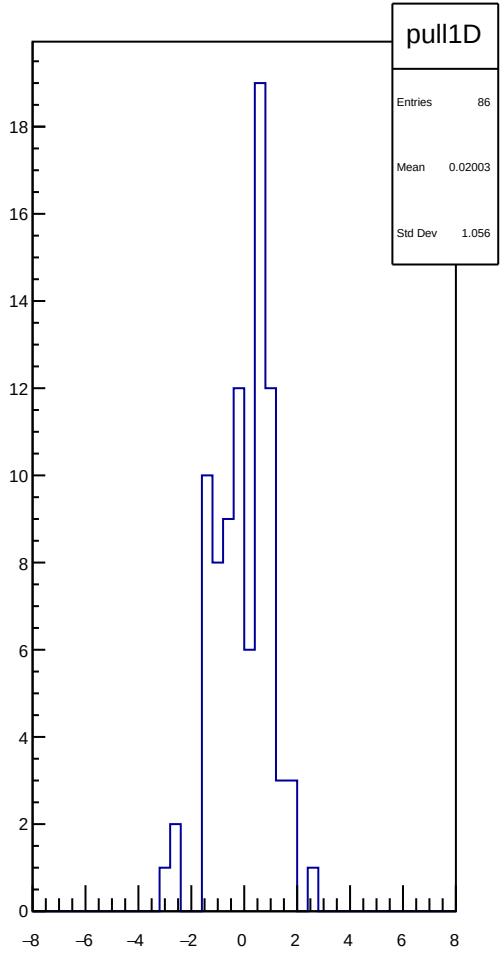

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 793.9 / 85
p0 22.26 ± 0.01713
24
23.5
23
22.5
22
21.5
21

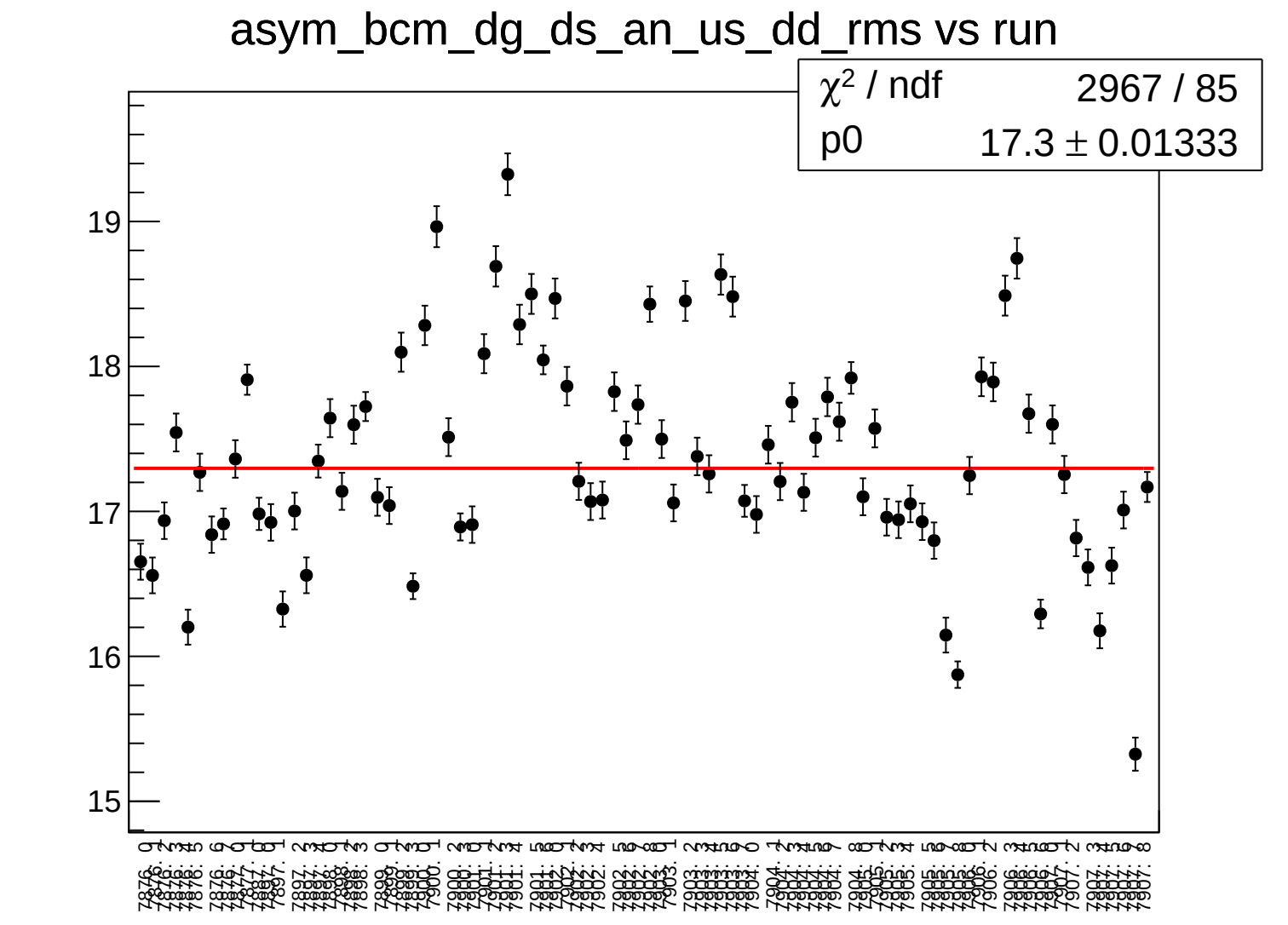

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 22.02 / 85
p0 −226.7 ± 150.9
pull
Entries 86
Mean −797.1
Std Dev 0

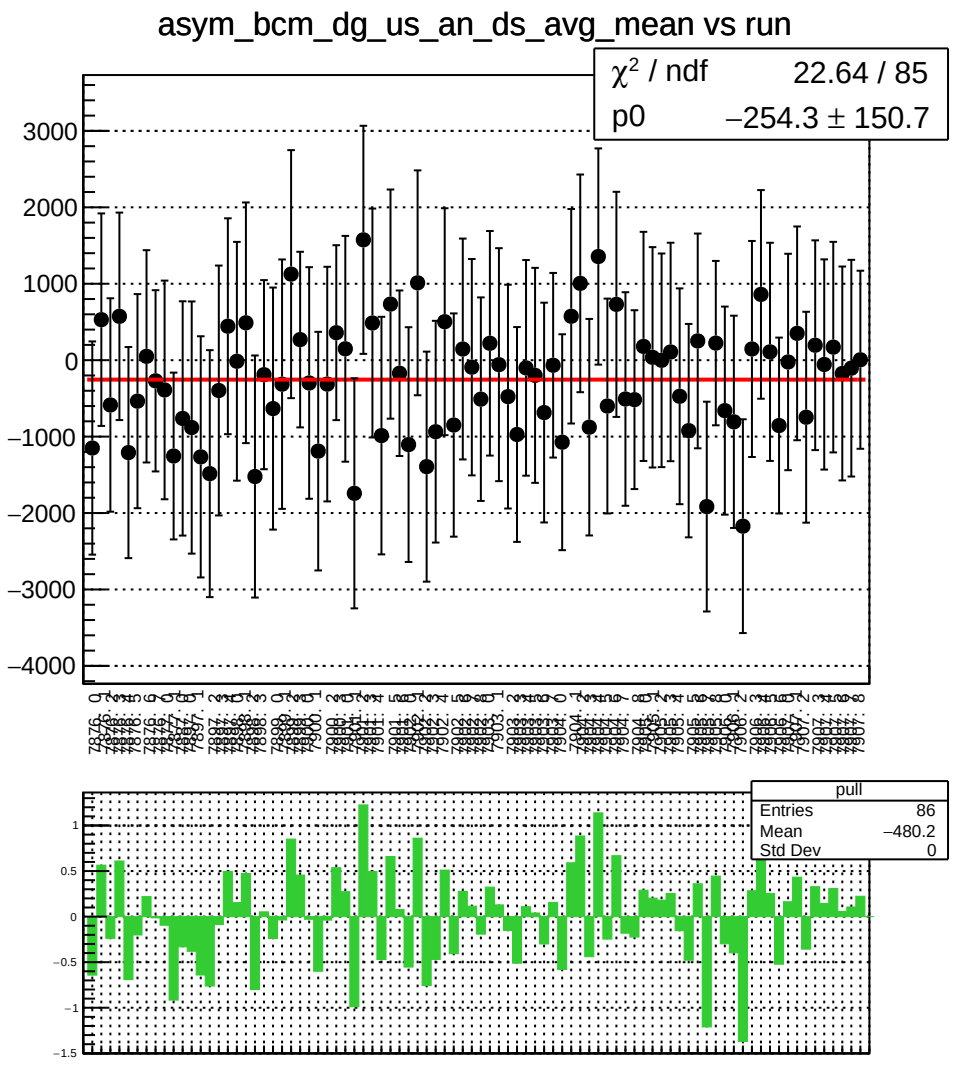

pull1D
Entries 86
Mean −0.001873
Std Dev 0.506

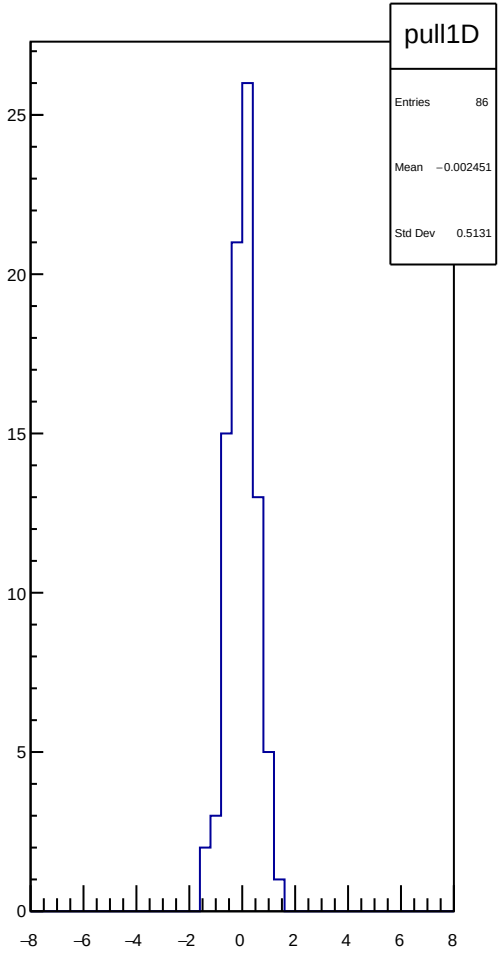

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 5133 / 85
p0 138.4 ± 0.1067
170
165
160
155
150
145
140
135
130
125

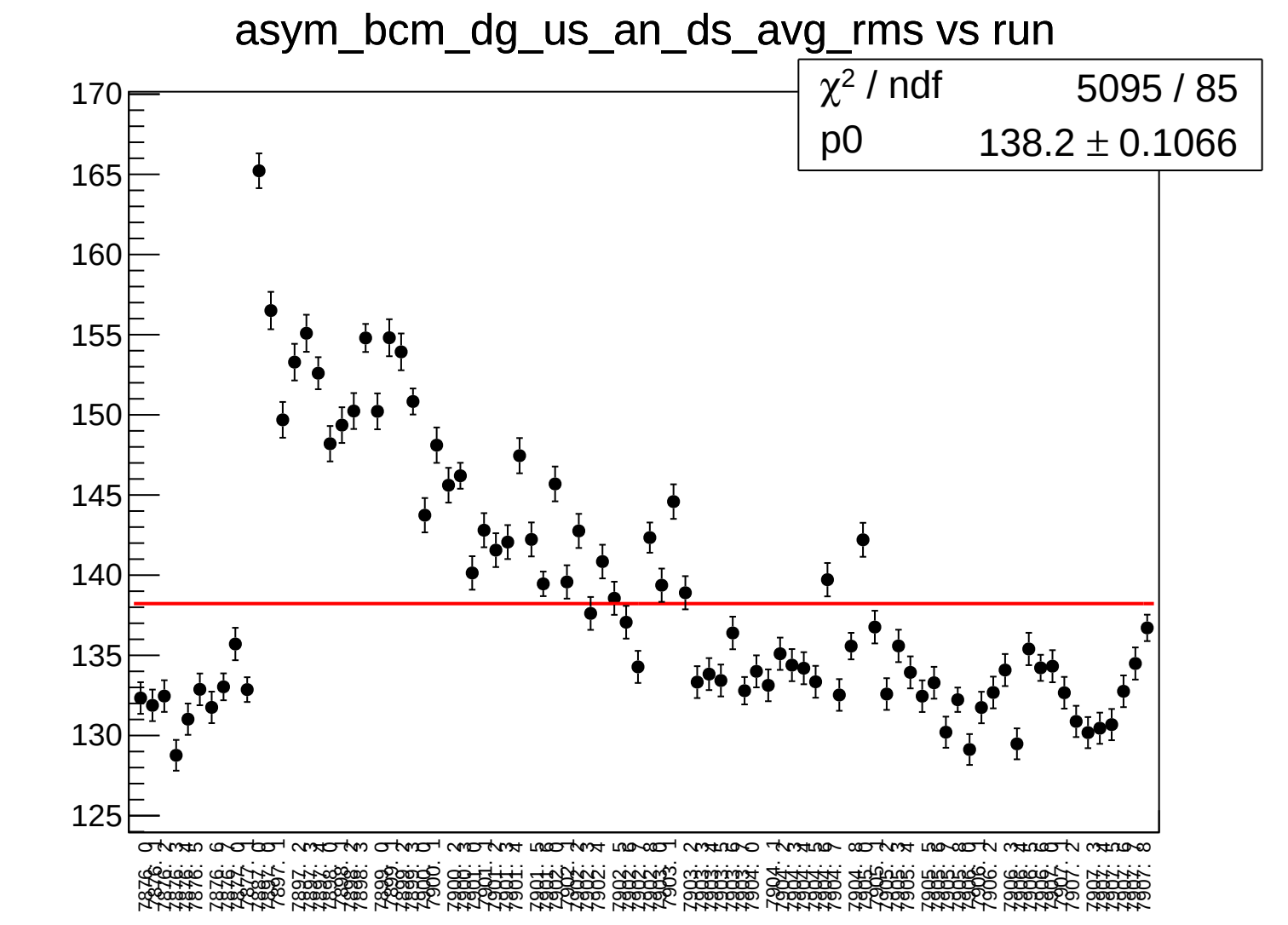

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 95.97 / 85
p0 −1.825 ± 18.85
pull
Entries 86
Mean 118.6
Std Dev 0

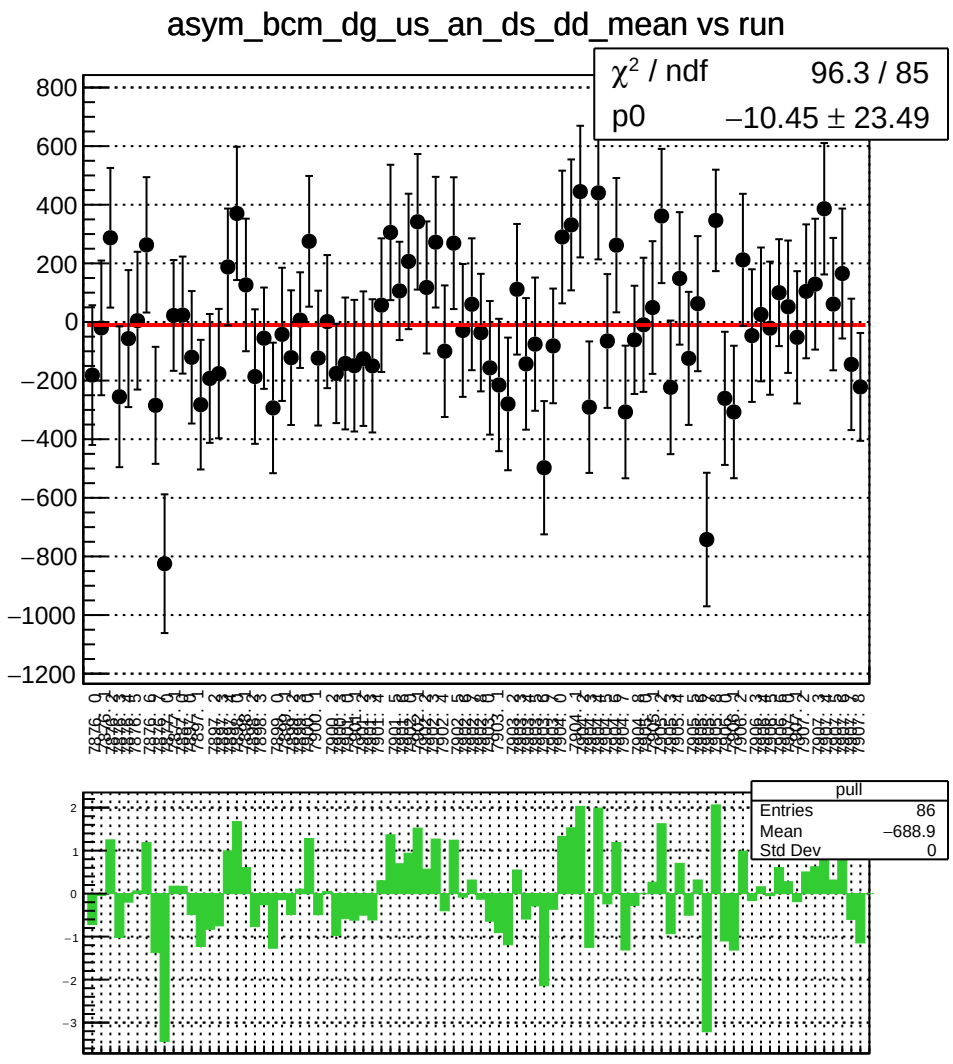

pull1D
Entries 86
Mean 0.02003
Std Dev 1.056

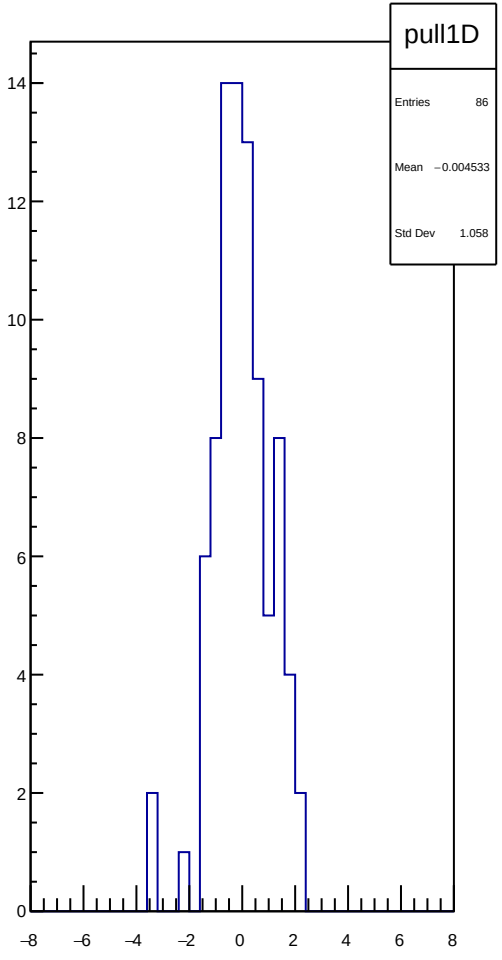

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2967 / 85
p0 17.3 ± 0.01333
19
18
17
16
15

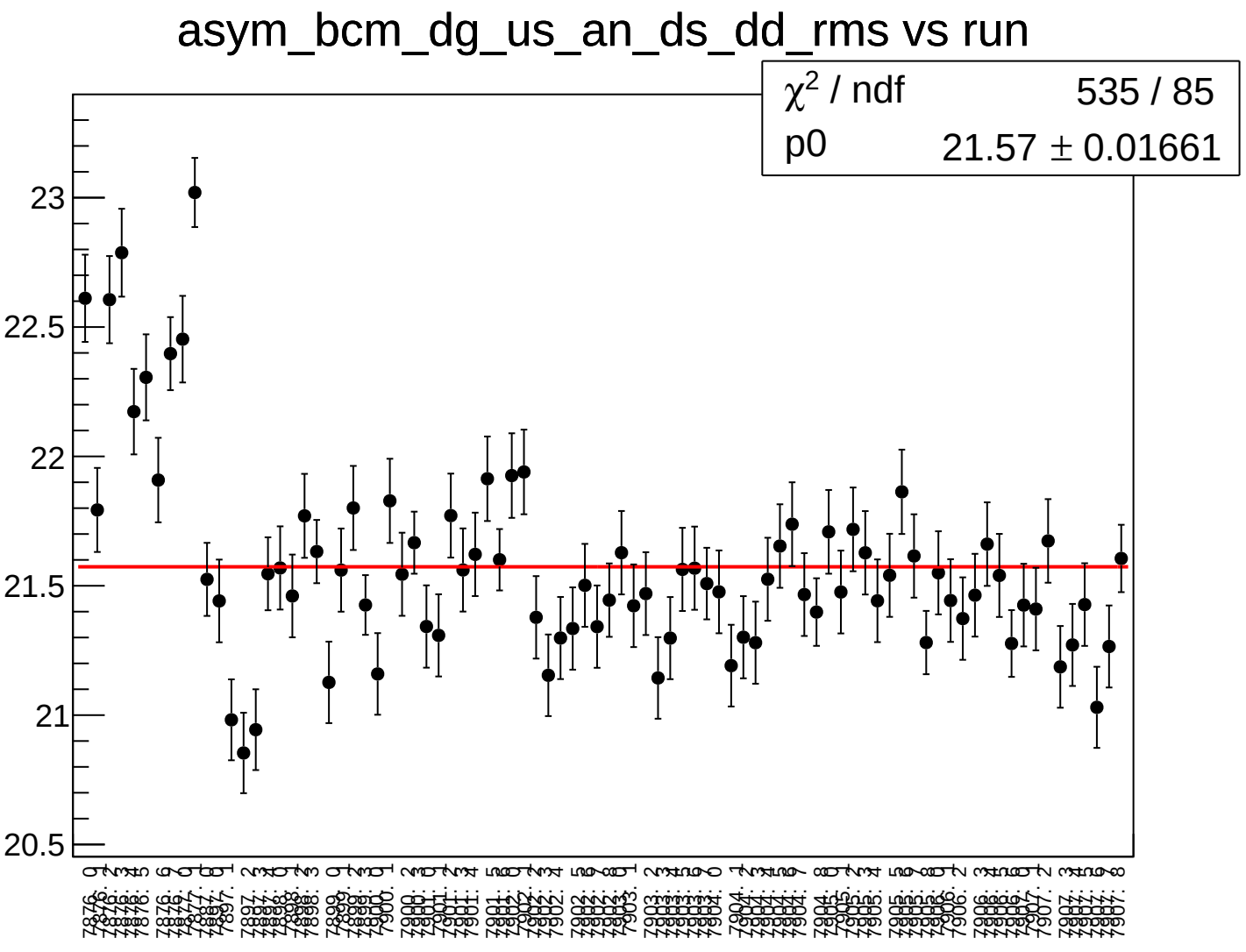

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 22.64 / 85
p0 −254.3 ± 150.7
pull
Entries 86
Mean −480.2
Std Dev 0

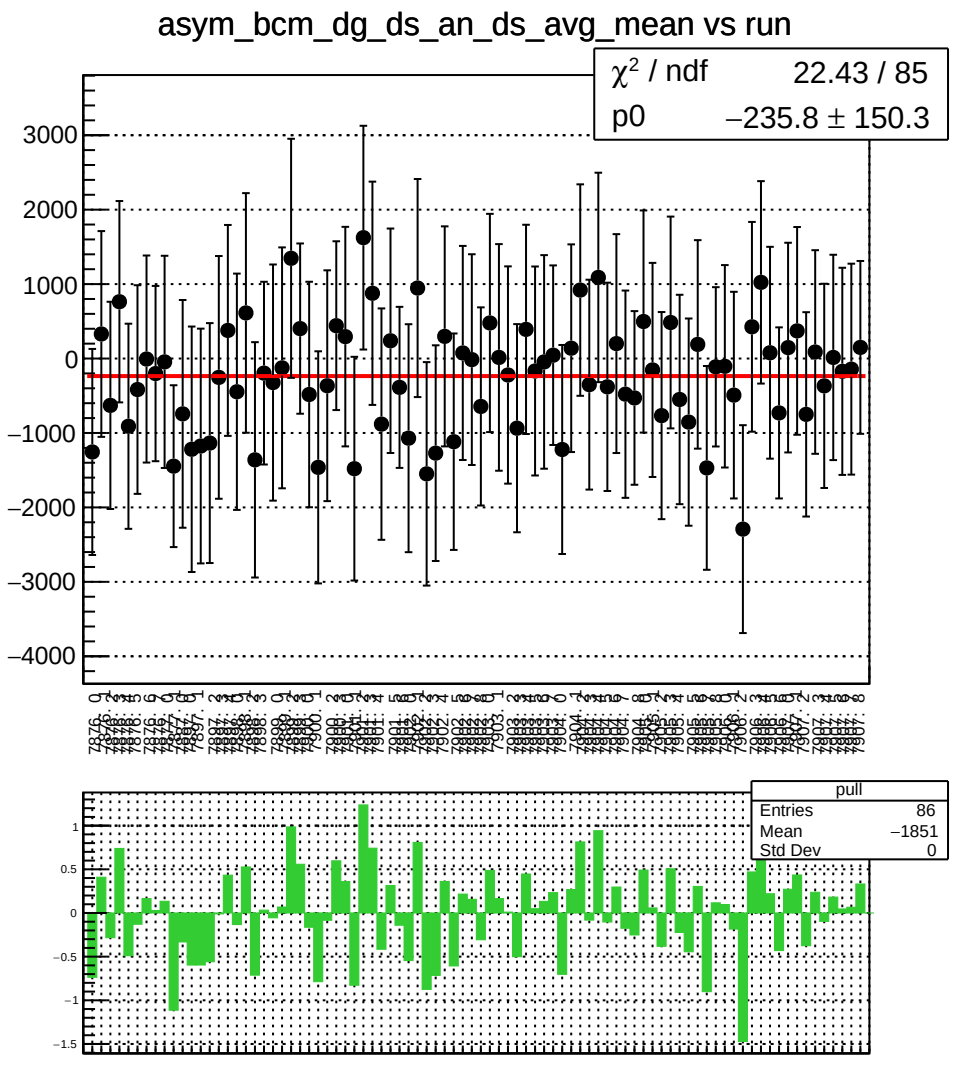

pull1D
Entries 86
Mean −0.002451
Std Dev 0.5131

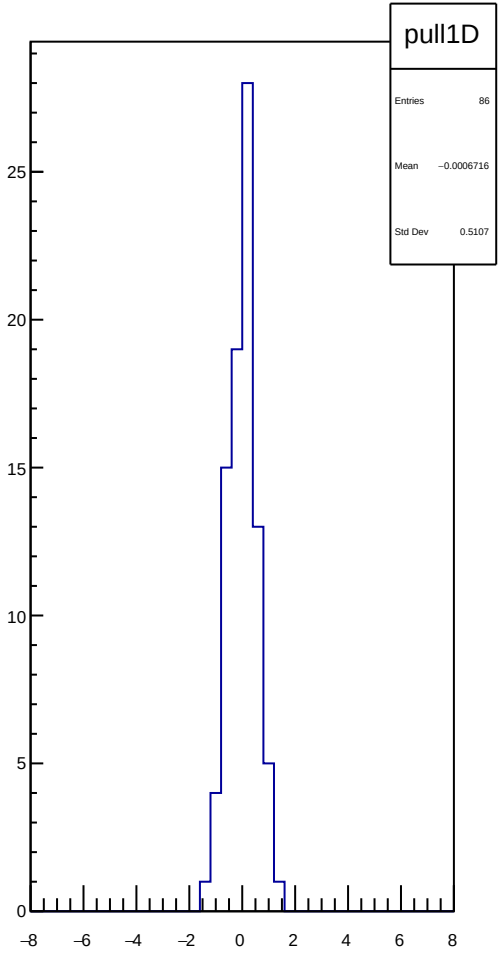

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 5095 / 85
p0 138.2 ± 0.1066
170
165
160
155
150
145
140
135
130
125

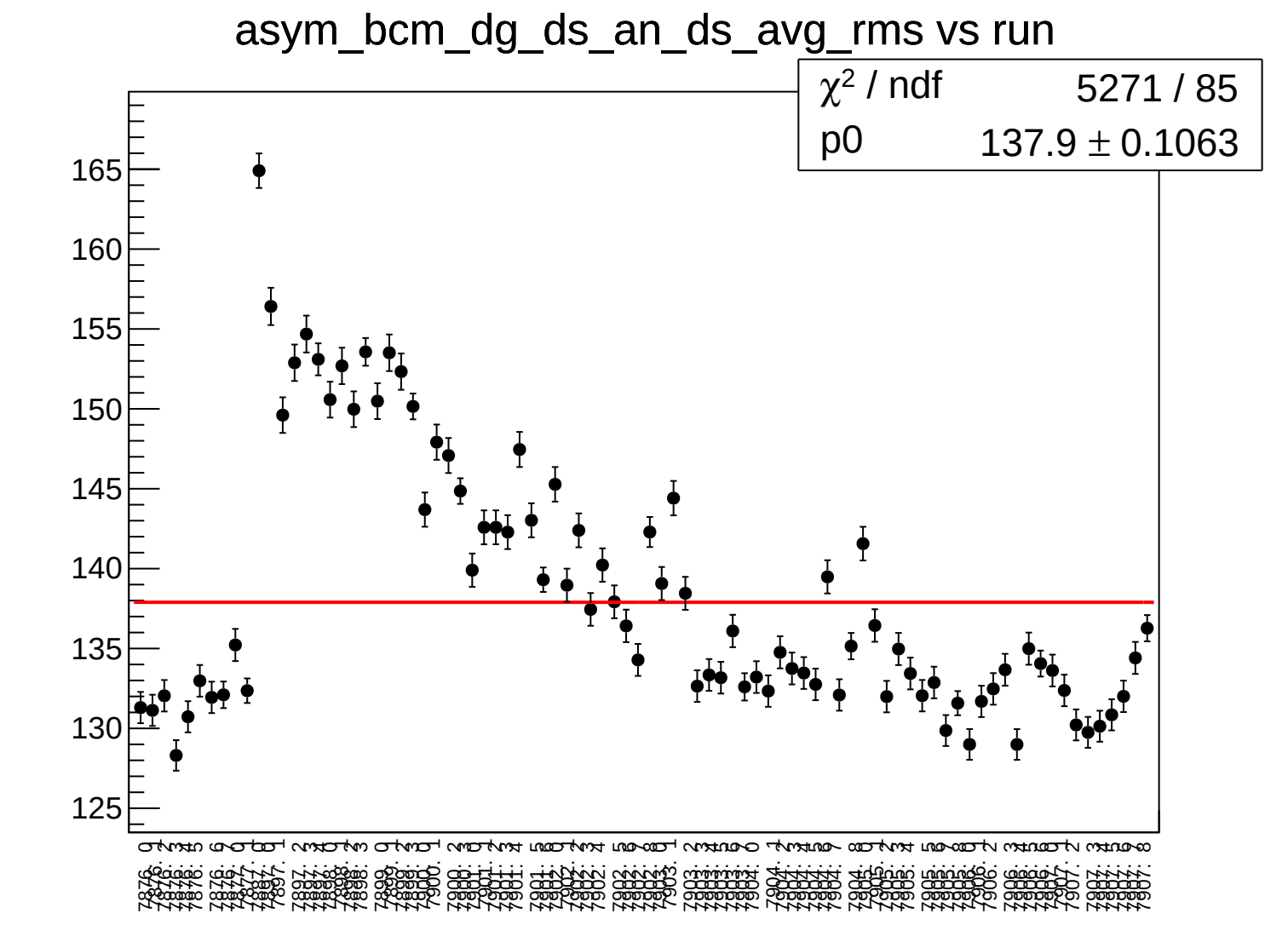

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 96.3 / 85
p0 −10.45 ± 23.49
pull
Entries 86
Mean −688.9
Std Dev 0

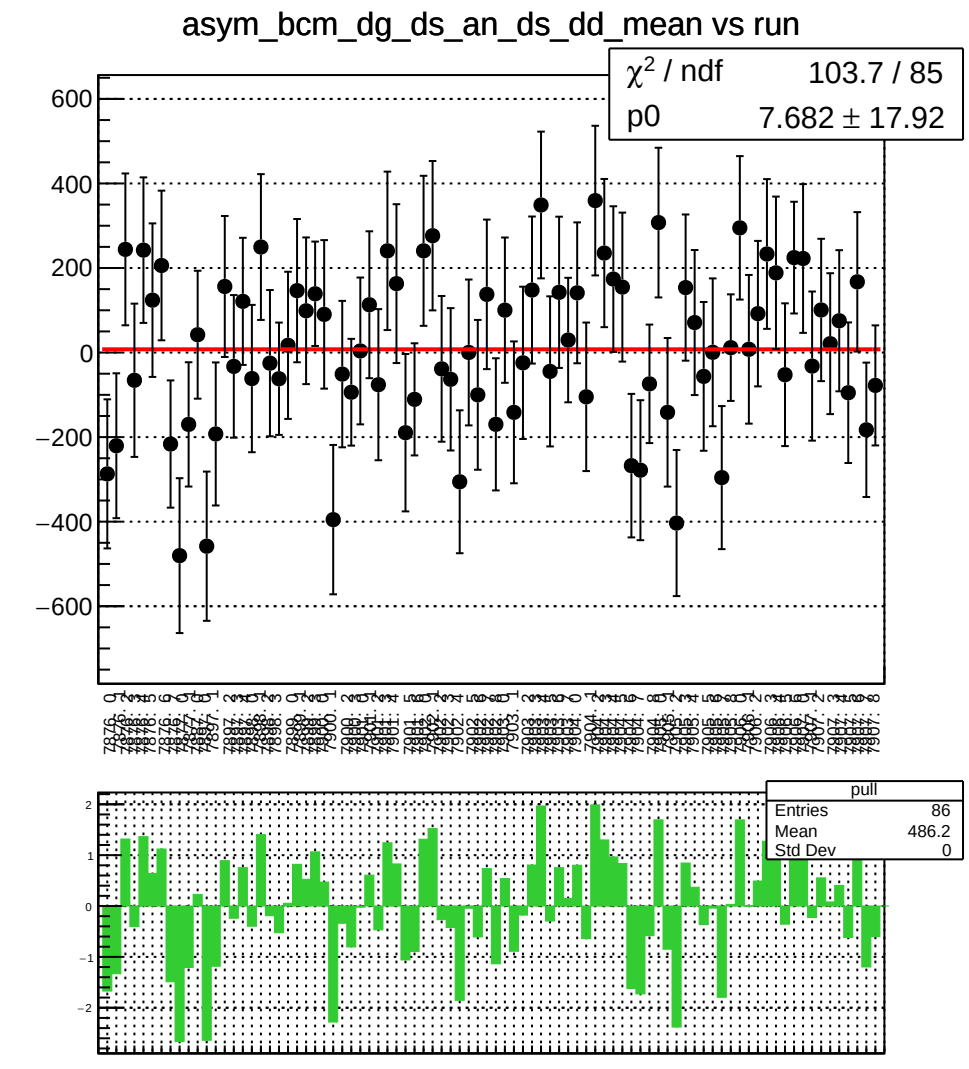

pull1D
Entries 86
Mean −0.004533
Std Dev 1.058

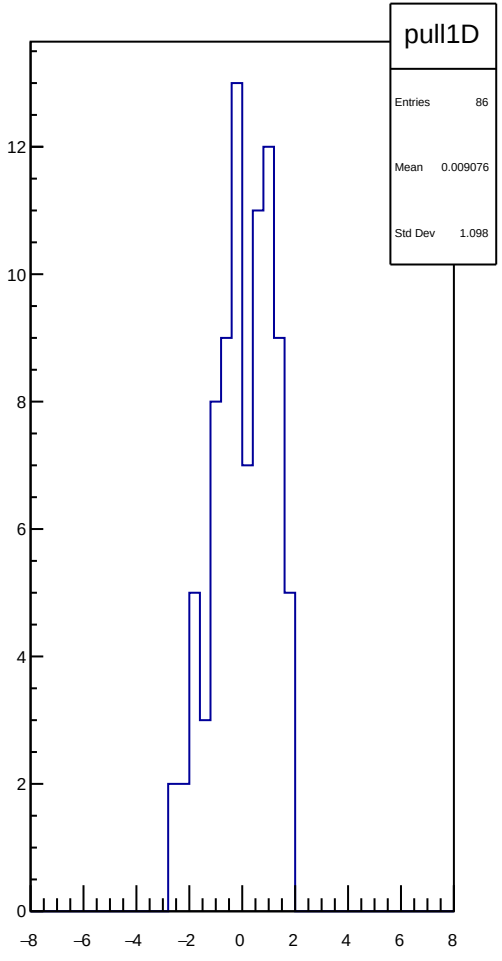

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 535 / 85
p0 21.57 ± 0.01661
23
22.5
22
21.5
21
20.5

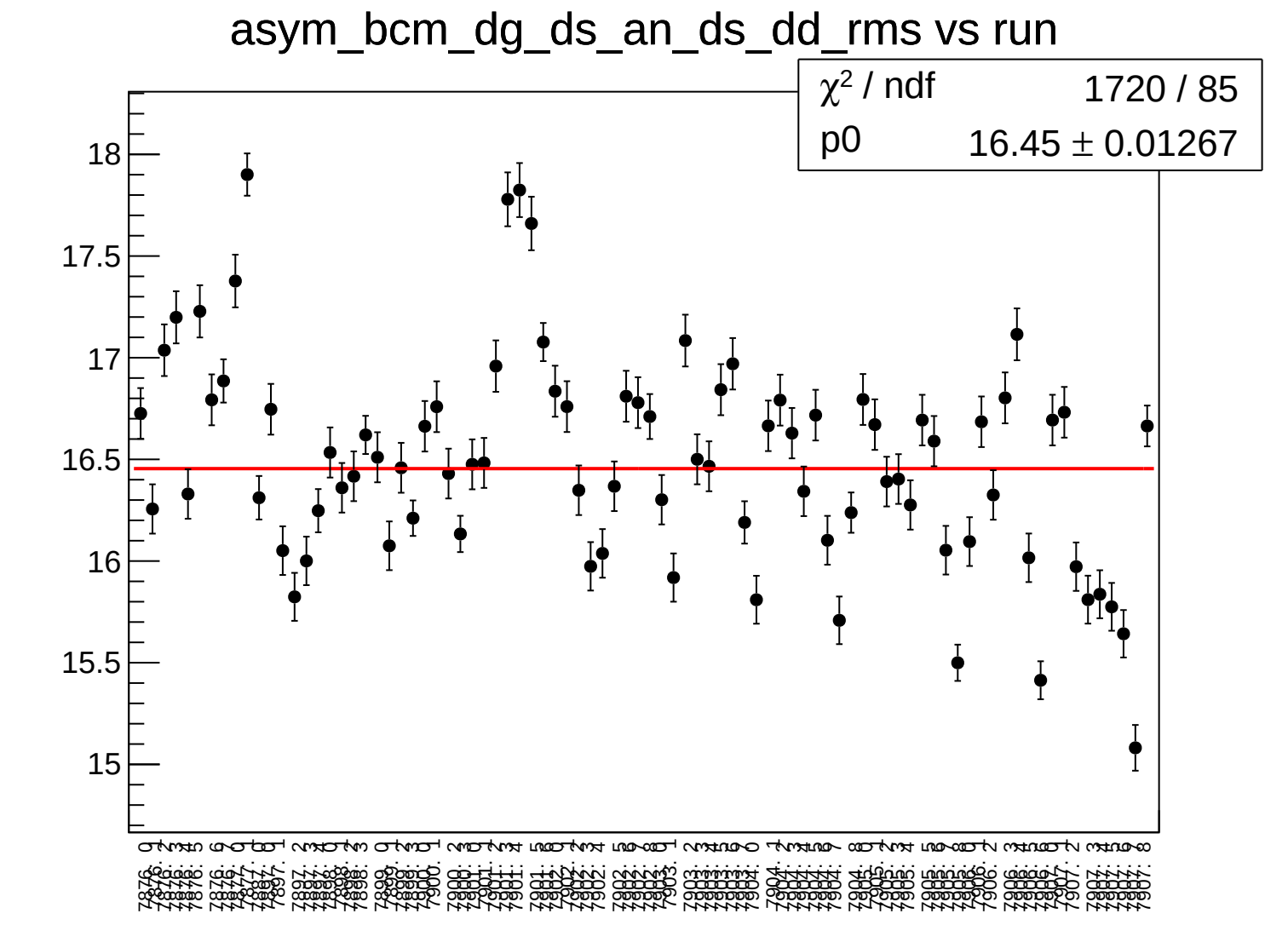

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 22.43 / 85
p0 −235.8 ± 150.3
pull
Entries 86
Mean −1851
Std Dev 0

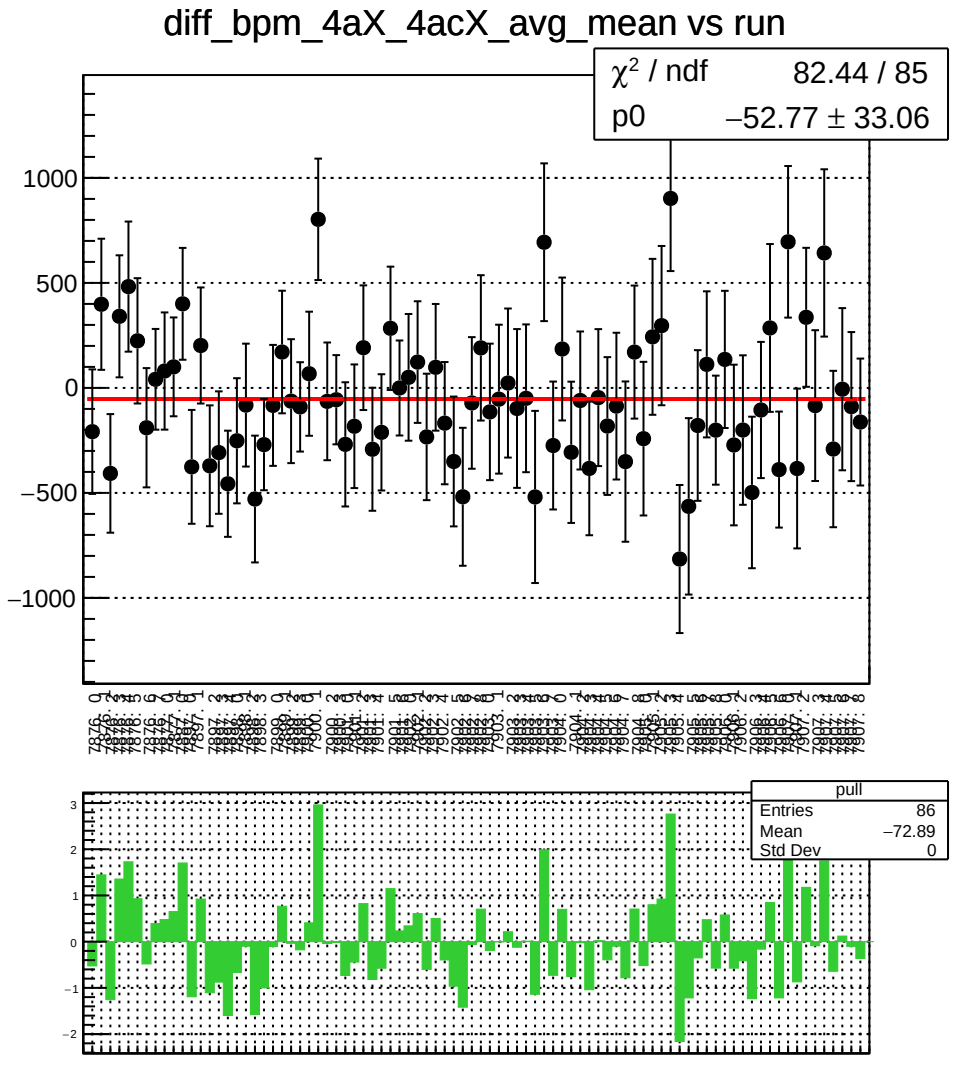

pull1D
Entries 86
Mean −0.0006716
Std Dev 0.5107

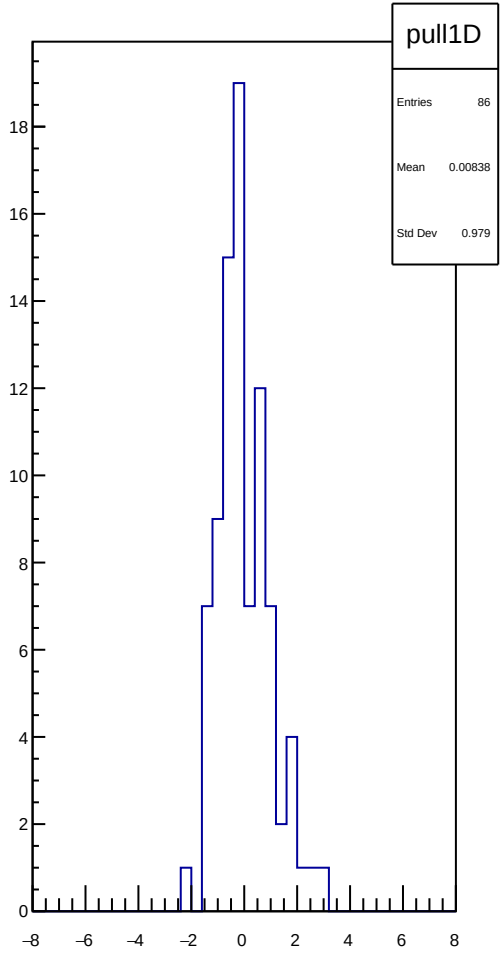

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ^2 / ndf 5271 / 85
p0 137.9 ± 0.1063
165
160
155
150
145
140
135
130
125

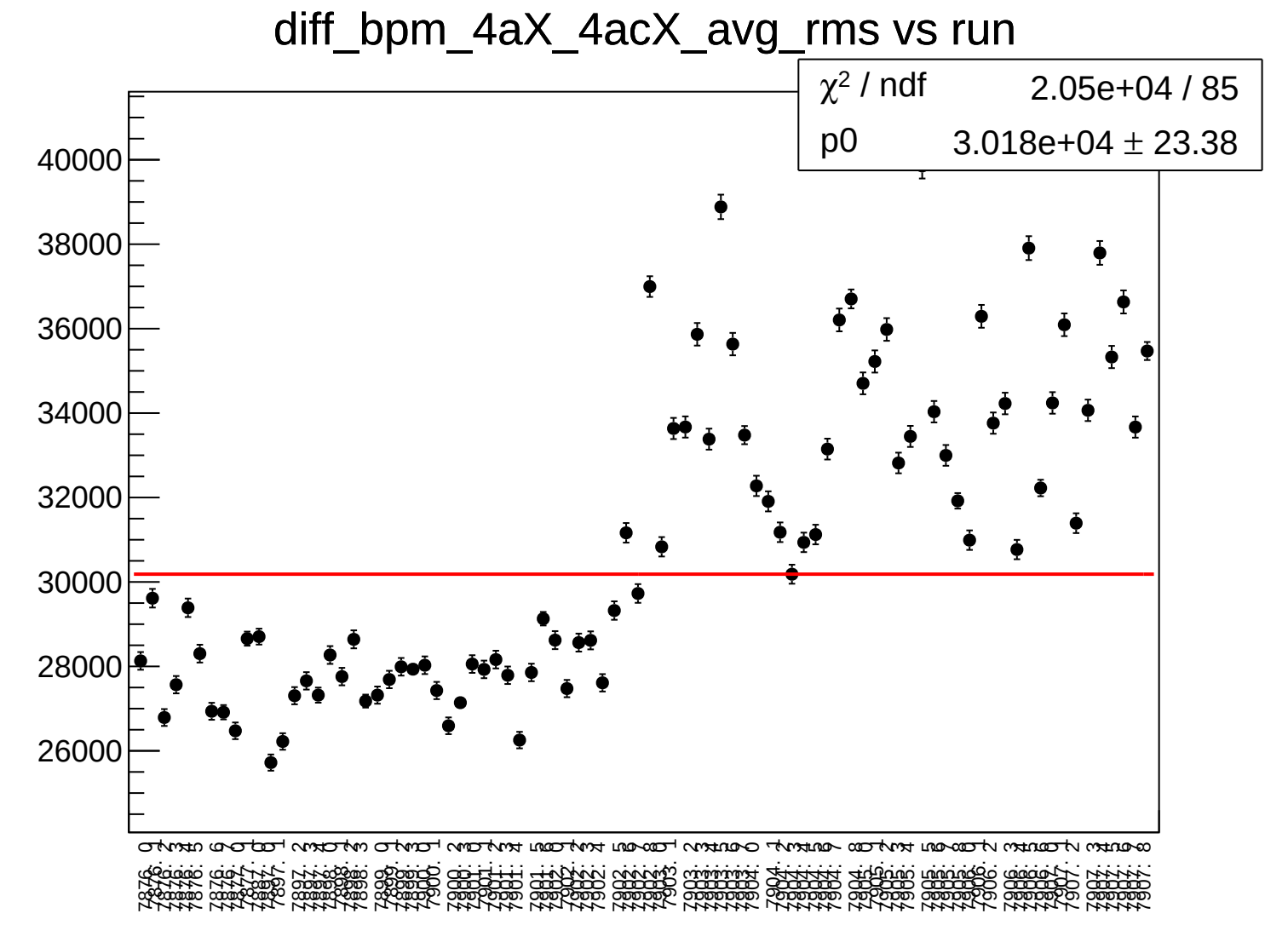

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 103.7 / 85
p0 7.682 ± 17.92
pull
Entries 86
Mean 486.2
Std Dev 0

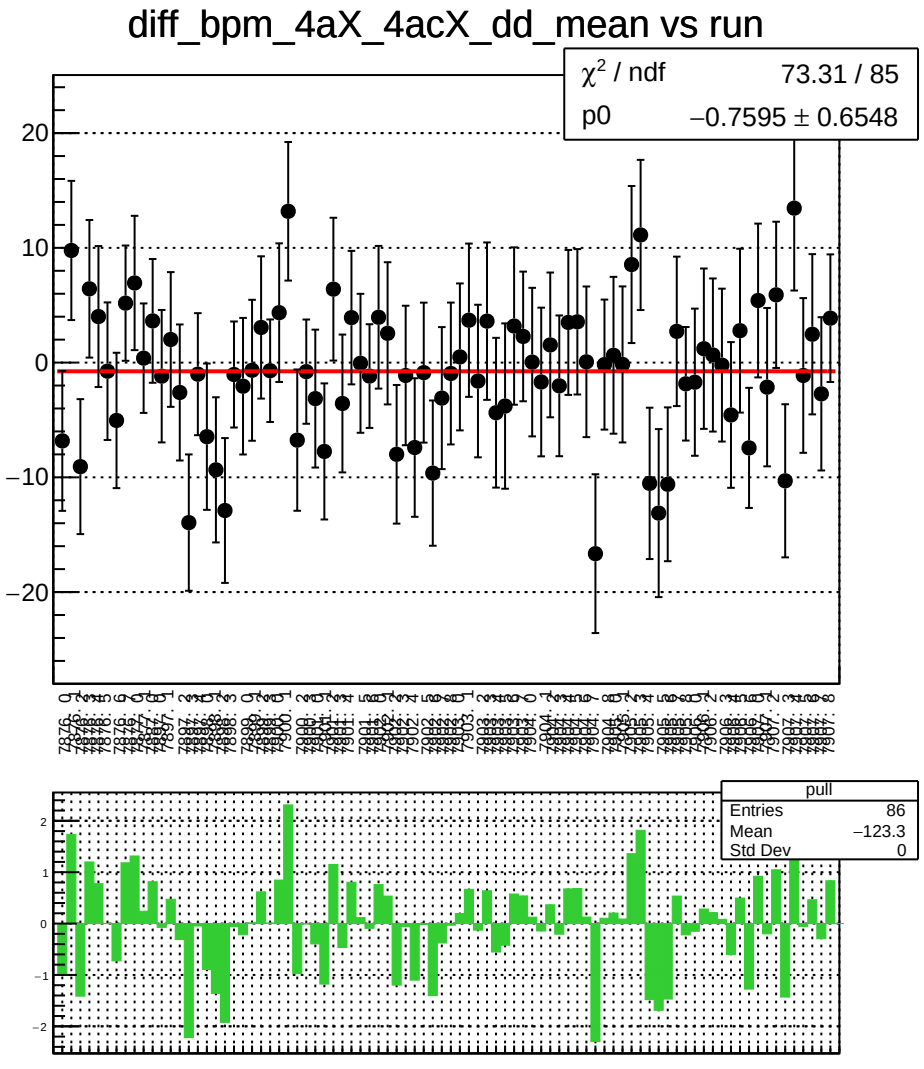

pull1D
Entries 86
Mean 0.009076
Std Dev 1.098

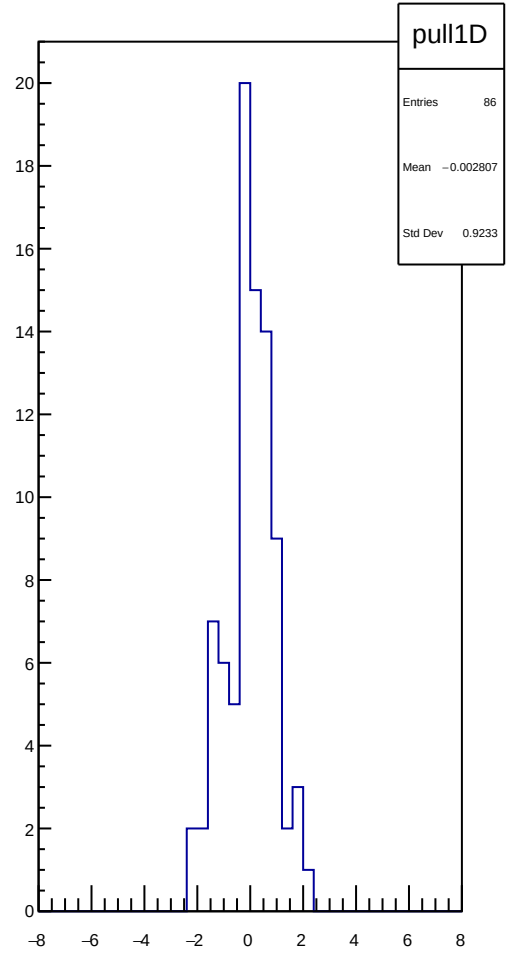

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1720 / 85
p0 16.45 ± 0.01267
18
17.5
17
16.5
16
15.5
15

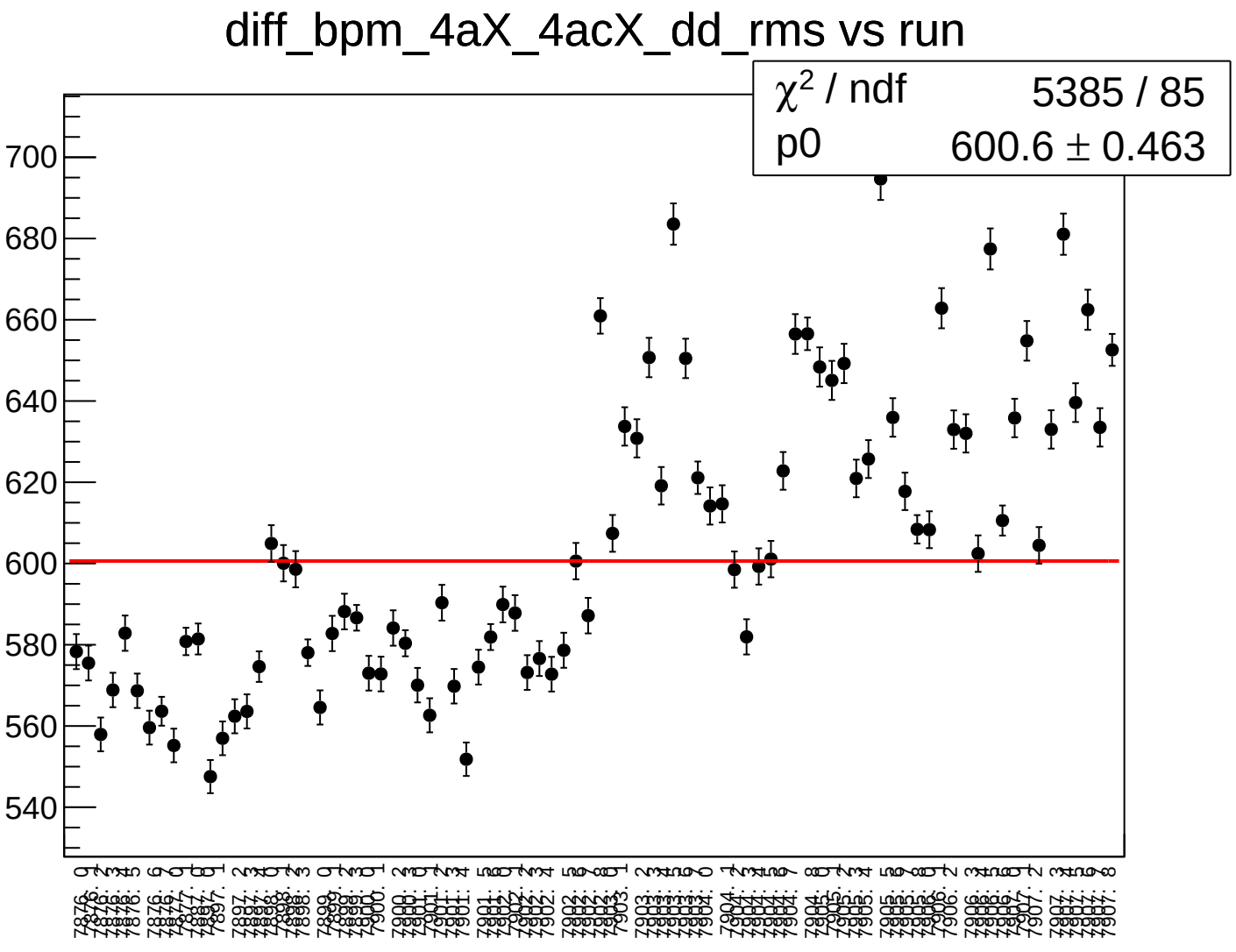

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 82.44 / 85
p0 −52.77 ± 33.06
1000
500
0
−500
−1000
pull
Entries 86
Mean −72.89
Std Dev 0
3
2
1
0
−1
−2

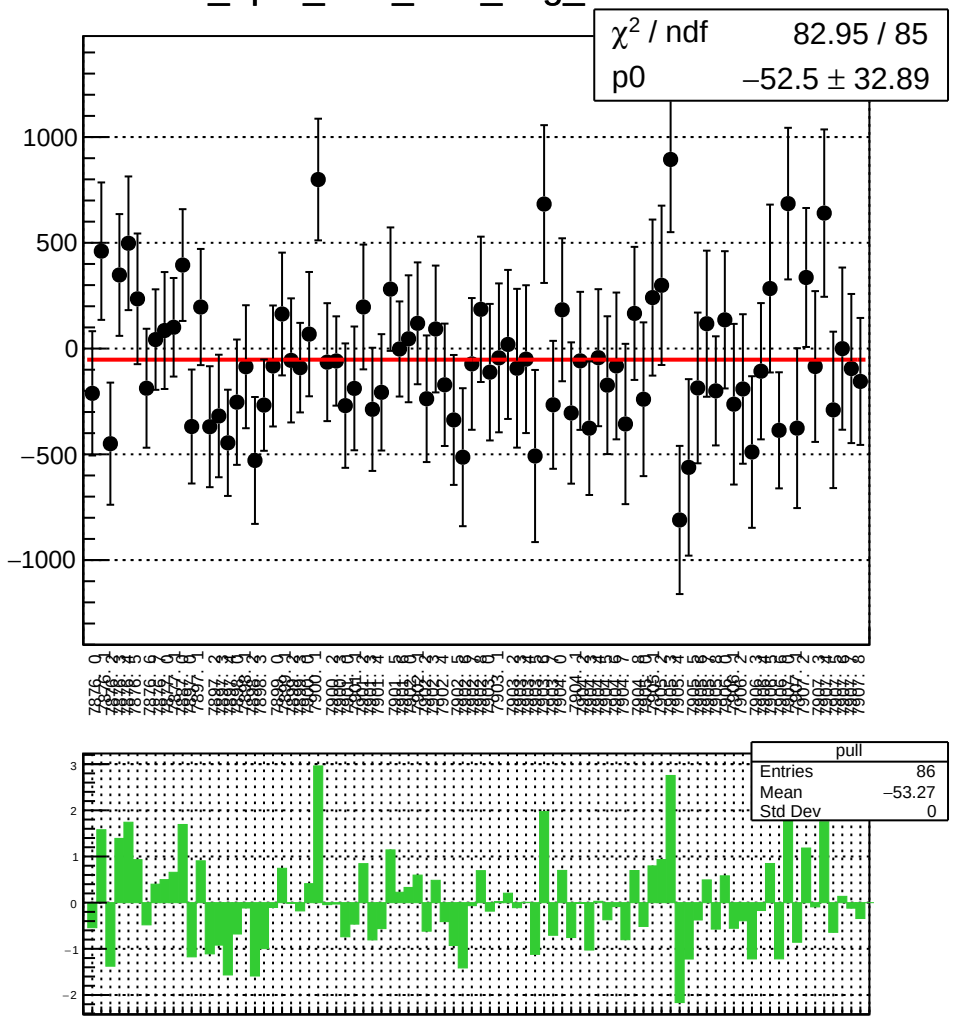

pull1D
Entries 86
Mean 0.00838
Std Dev 0.979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

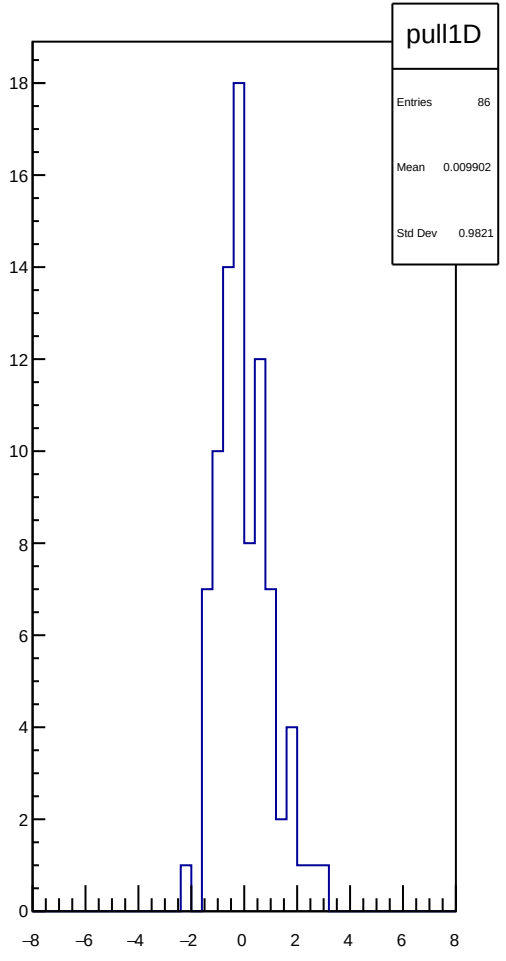

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2.05e+04 / 85
p0 3.018e+04 ± 23.38
40000
38000
36000
34000
32000
30000
28000
26000

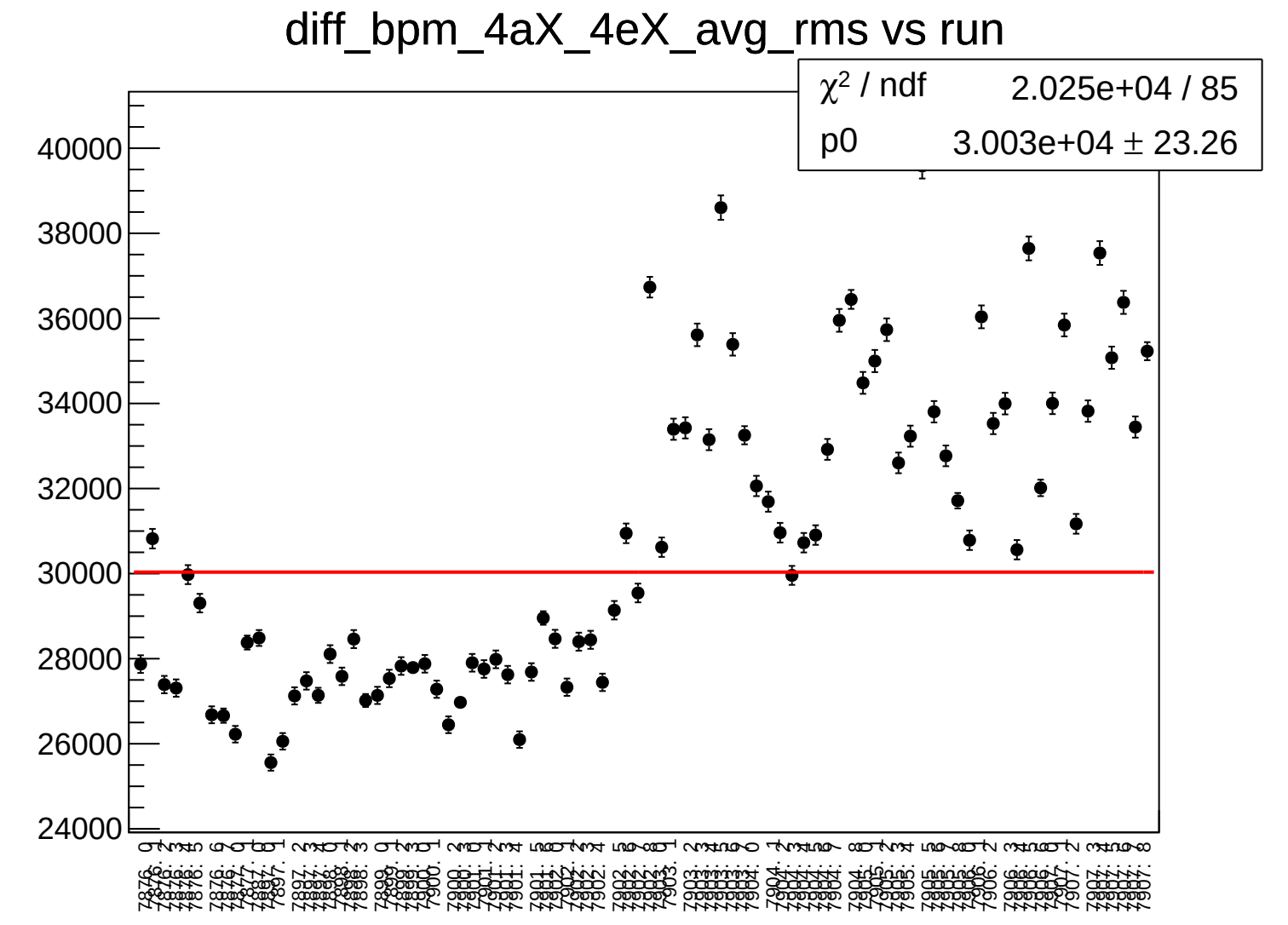

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 73.31 / 85
p0 −0.7595 ± 0.6548
pull
Entries 86
Mean −123.3
Std Dev 0

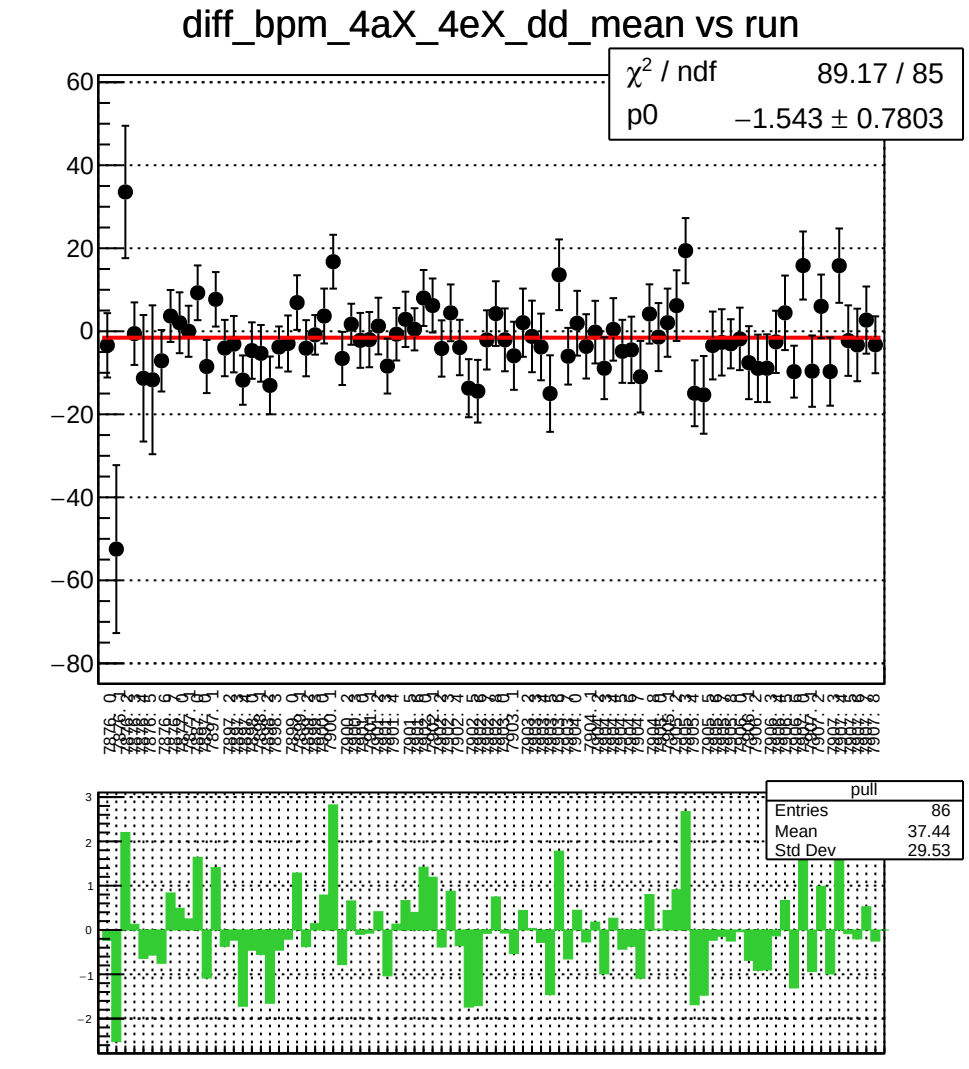

pull1D
Entries 86
Mean −0.002807
Std Dev 0.9233

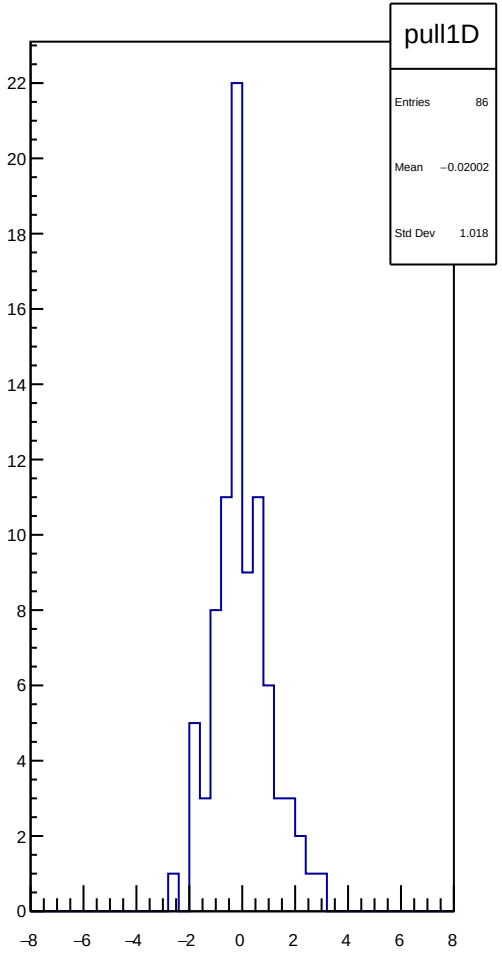

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 5385 / 85
p0 600.6 ± 0.463
700
680
660
640
620
600
580
560
540

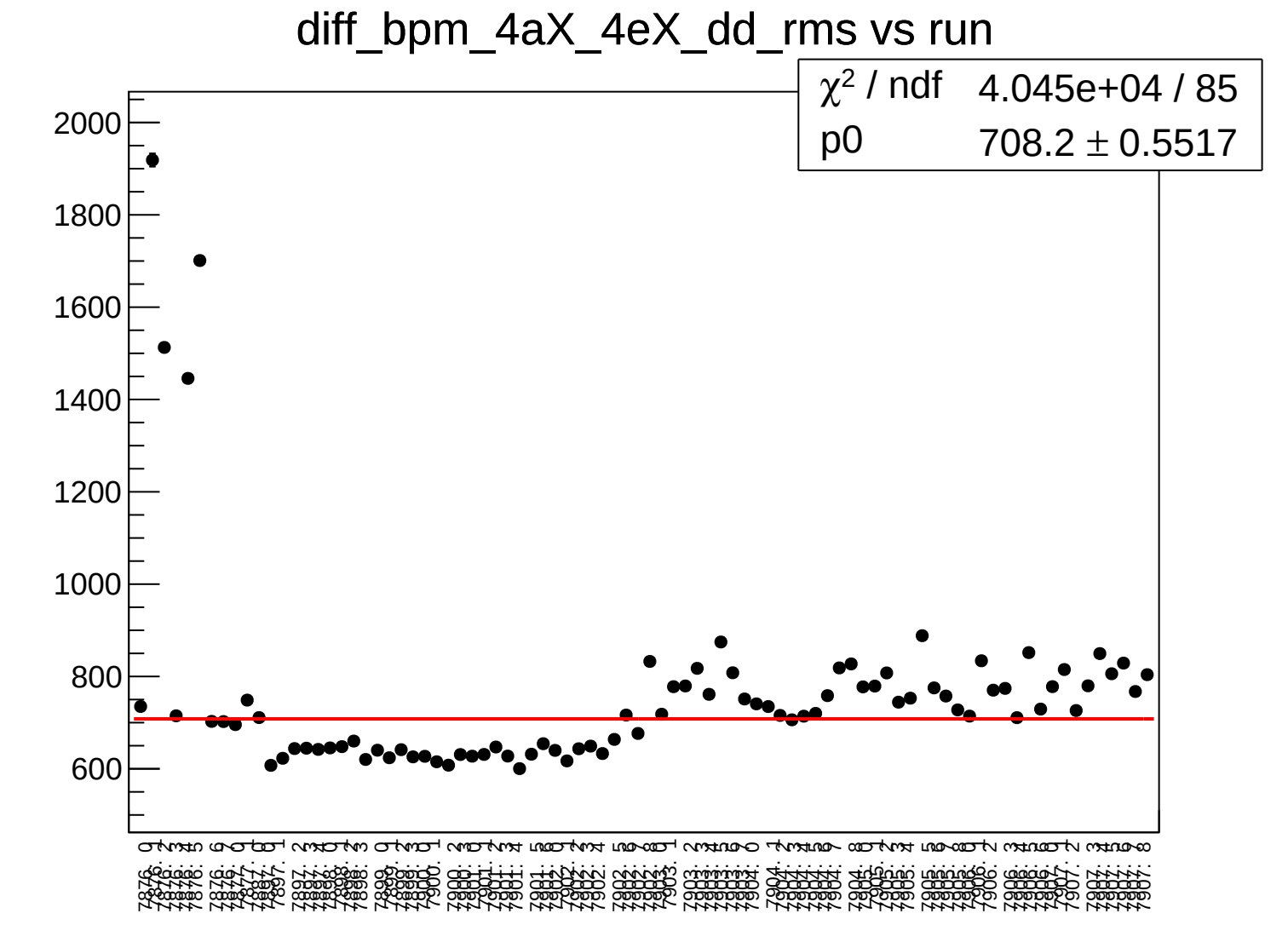

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 82.95 / 85
p0 −52.5 ± 32.89
1000
500
0
−500
−1000
pull
Entries 86
Mean −53.27
Std Dev 0
3
2
1
0
−1
−2

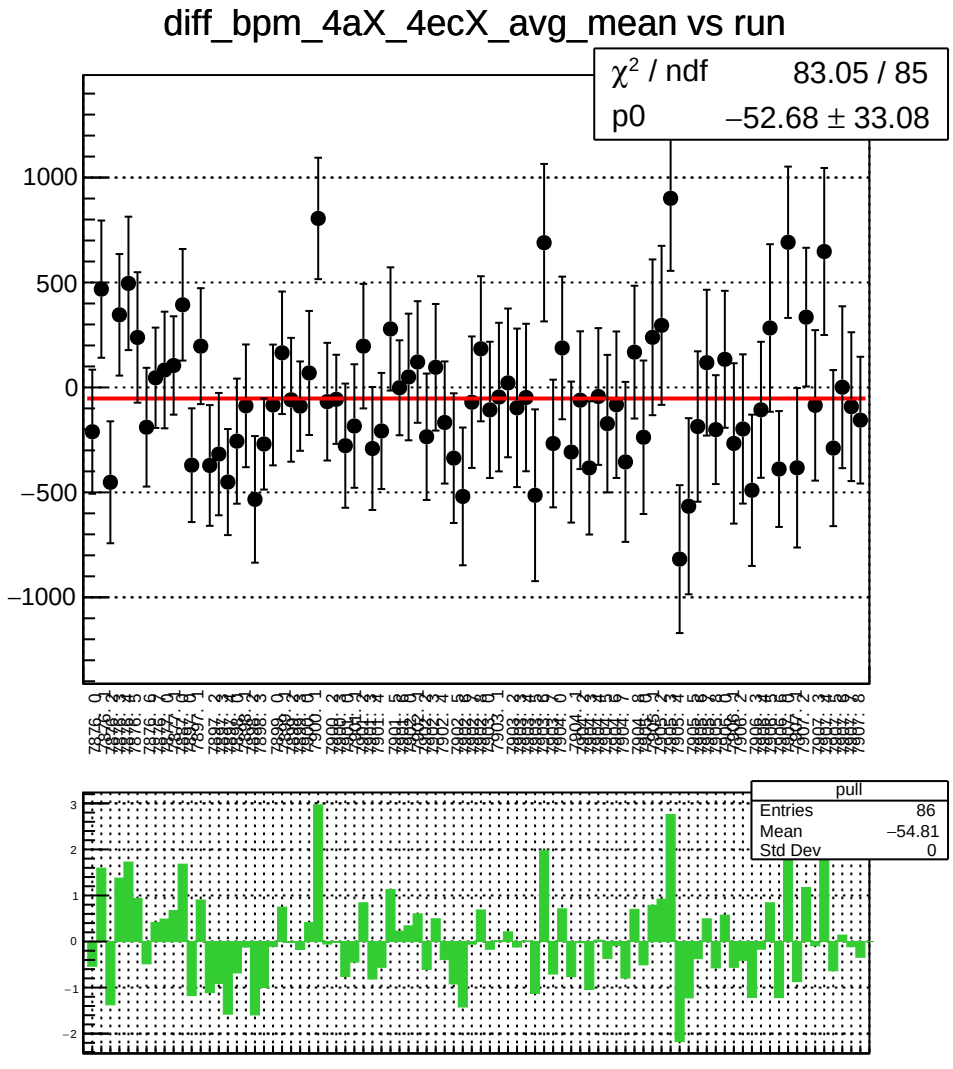

pull1D
Entries 86
Mean 0.009902
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

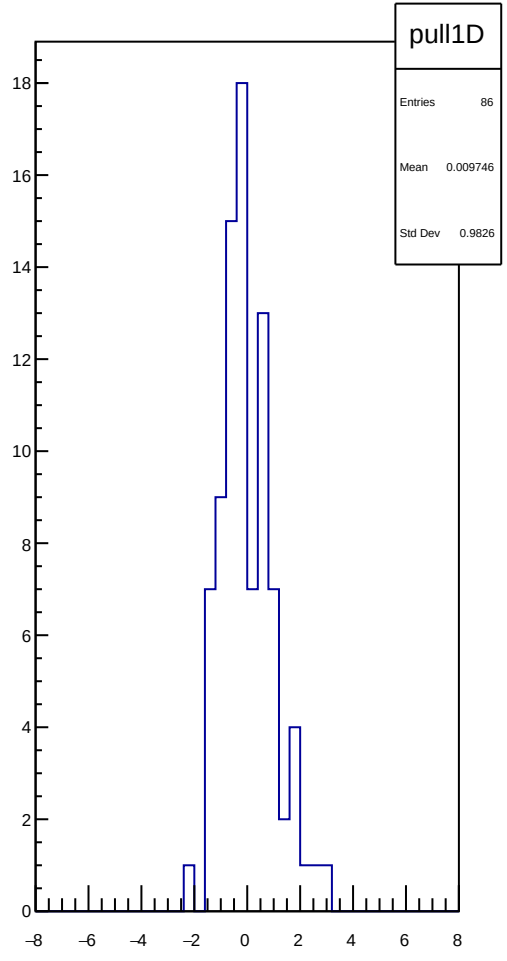

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2.025e+04 / 85
p0 3.003e+04 ± 23.26
40000
38000
36000
34000
32000
30000
28000
26000
24000

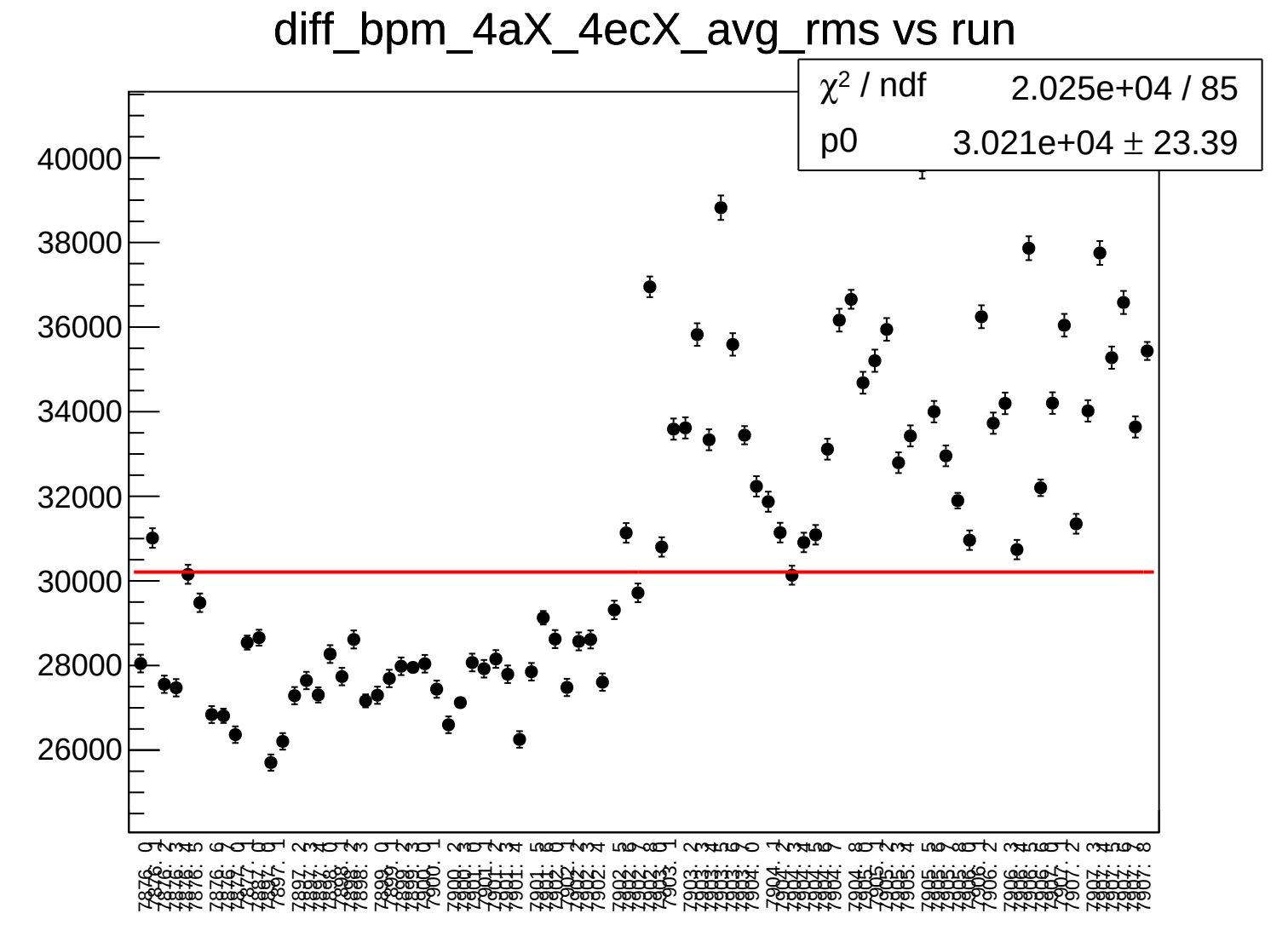

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 89.17 / 85
p0 −1.543 ± 0.7803
pull
Entries 86
Mean 37.44
Std Dev 29.53

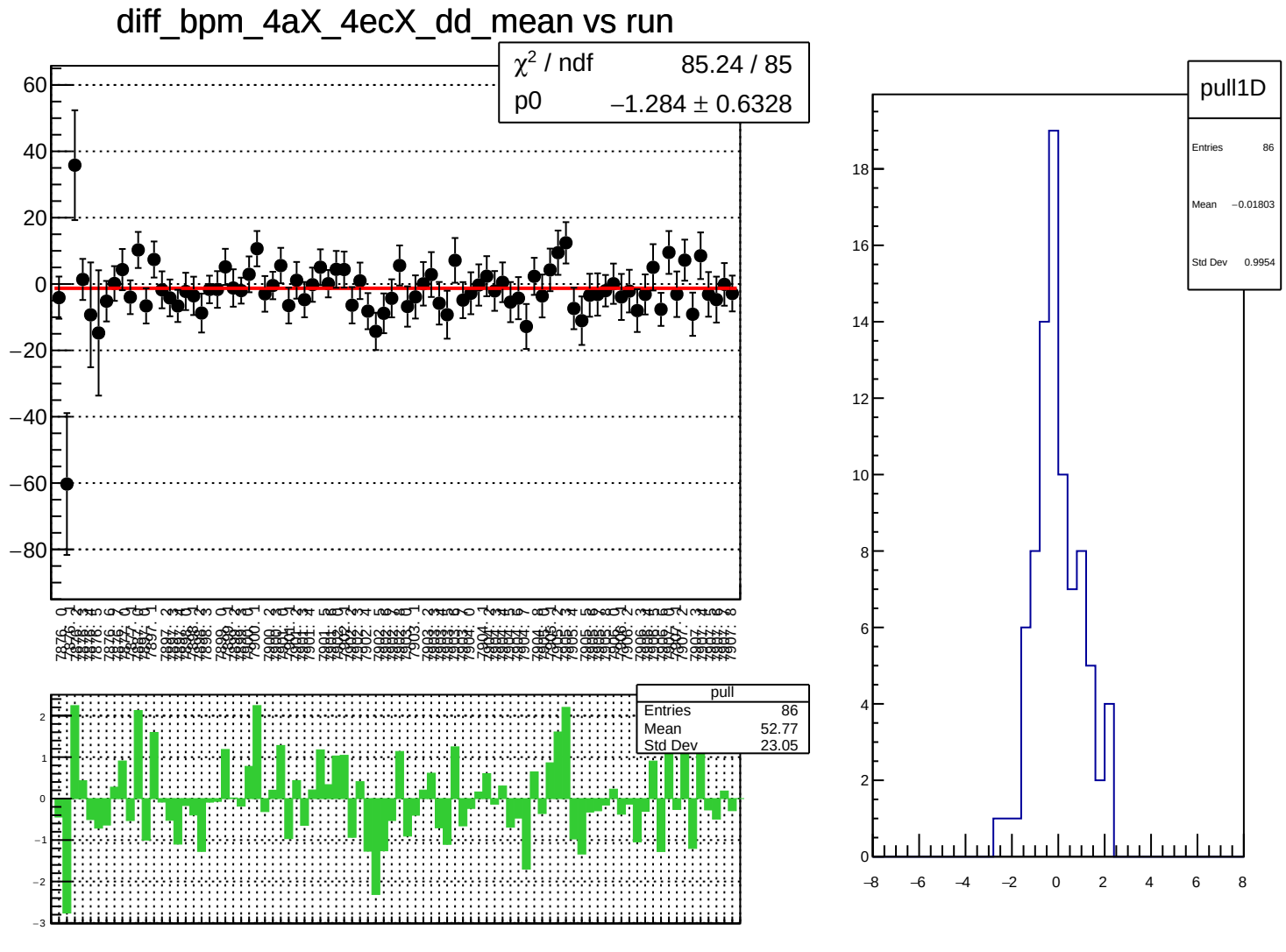

pull1D
Entries 86
Mean −0.02002
Std Dev 1.018

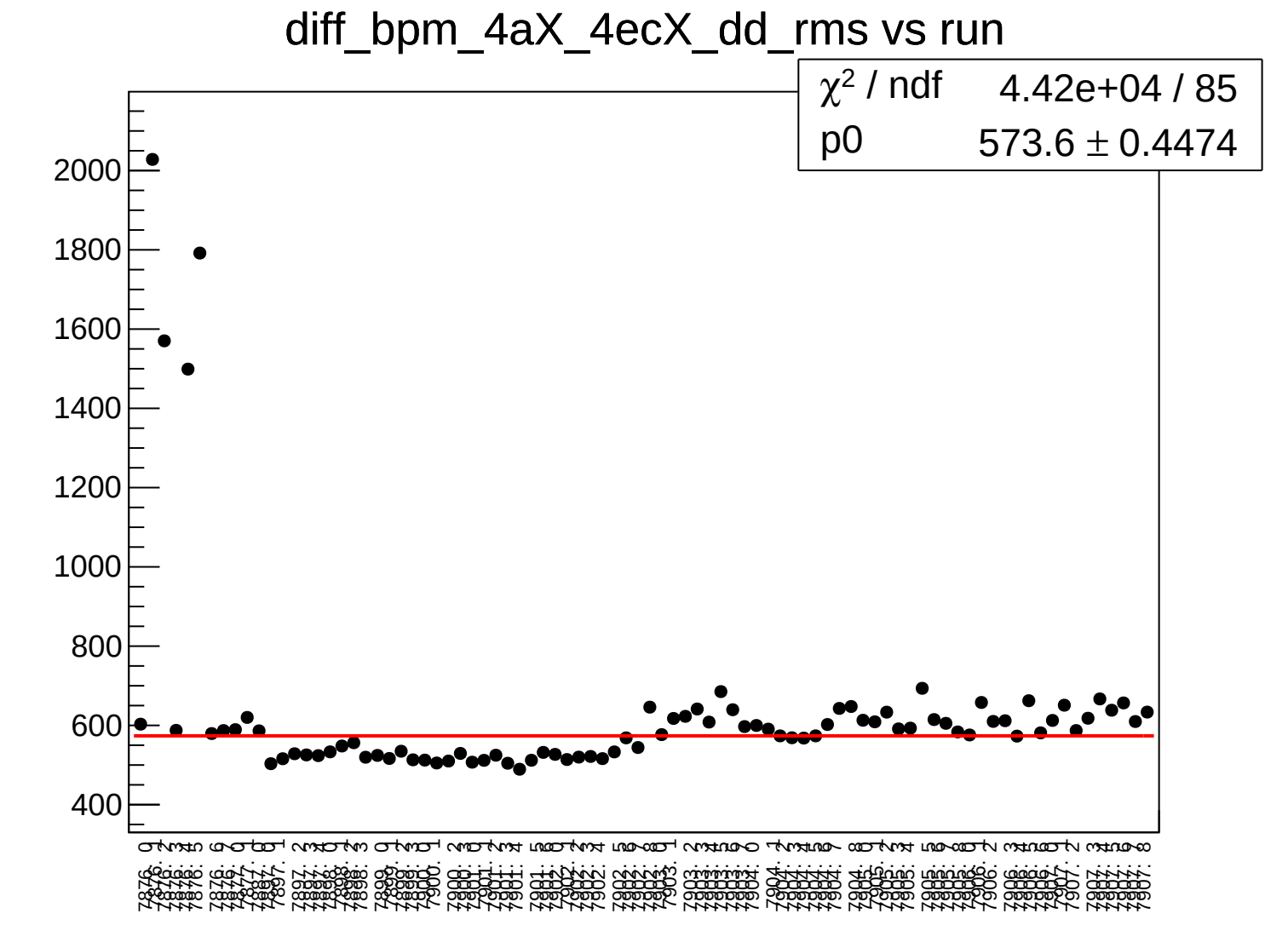

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 4.045e+04 / 85
p0 708.2 ± 0.5517
2000
1800
1600
1400
1200
1000
800
600

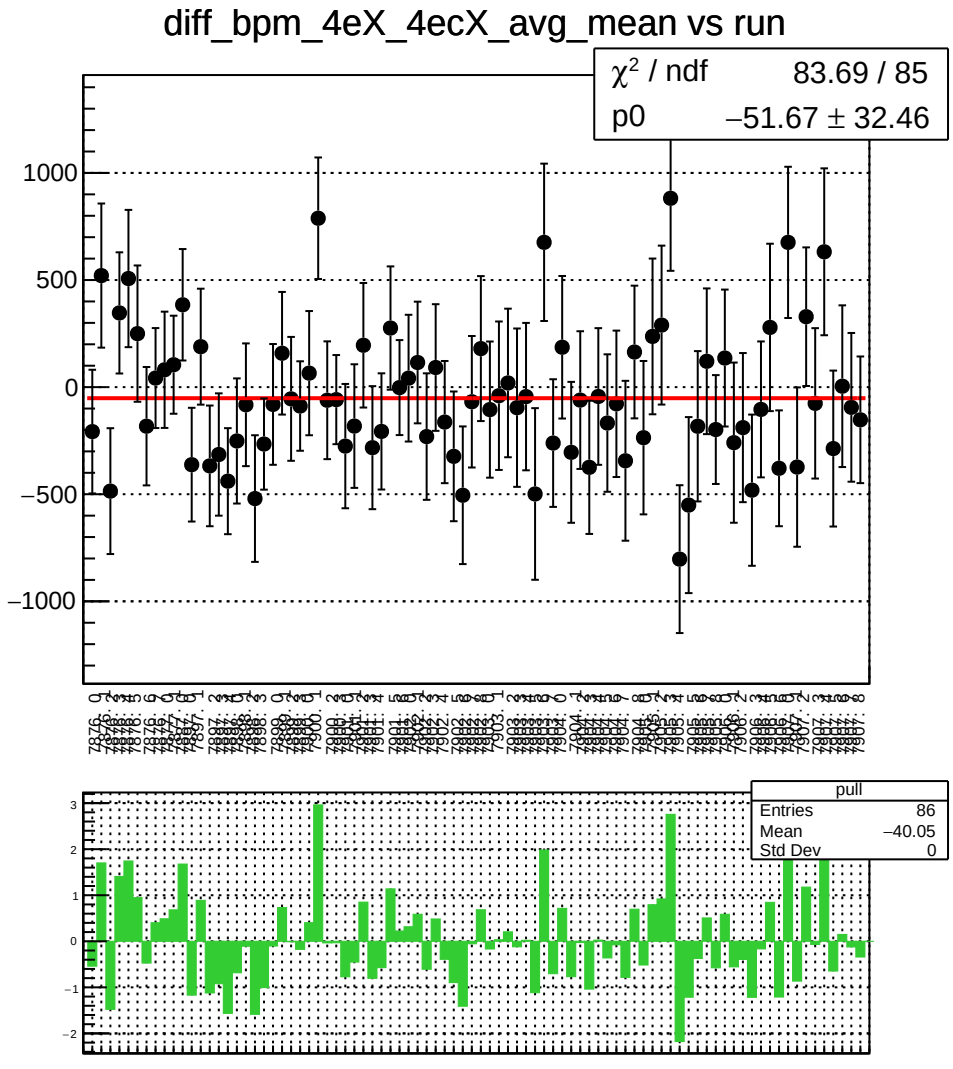

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 83.05 / 85
p0 −52.68 ± 33.08
1000
500
0
−500
−1000
pull
Entries 86
Mean −54.81
Std Dev 0
3
2
1
0
−1
−2

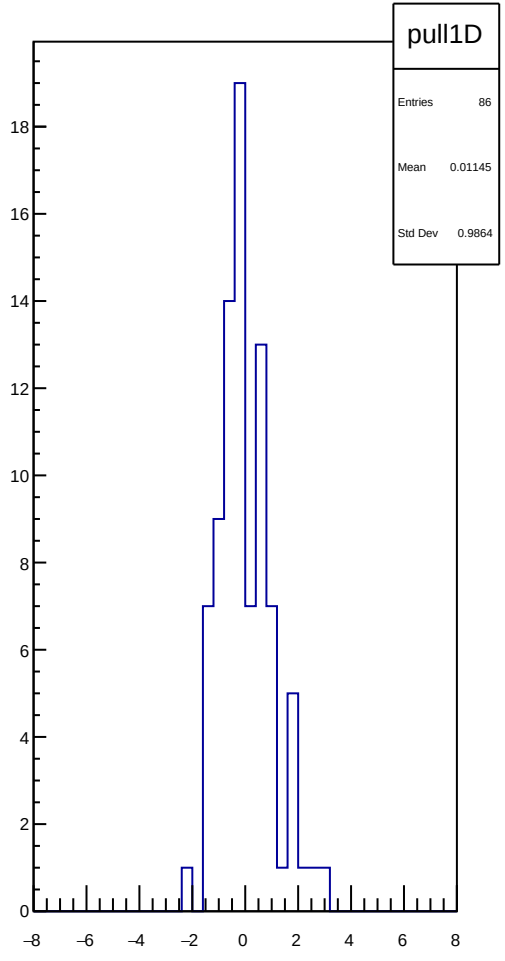

pull1D
Entries 86
Mean 0.009746
Std Dev 0.9826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

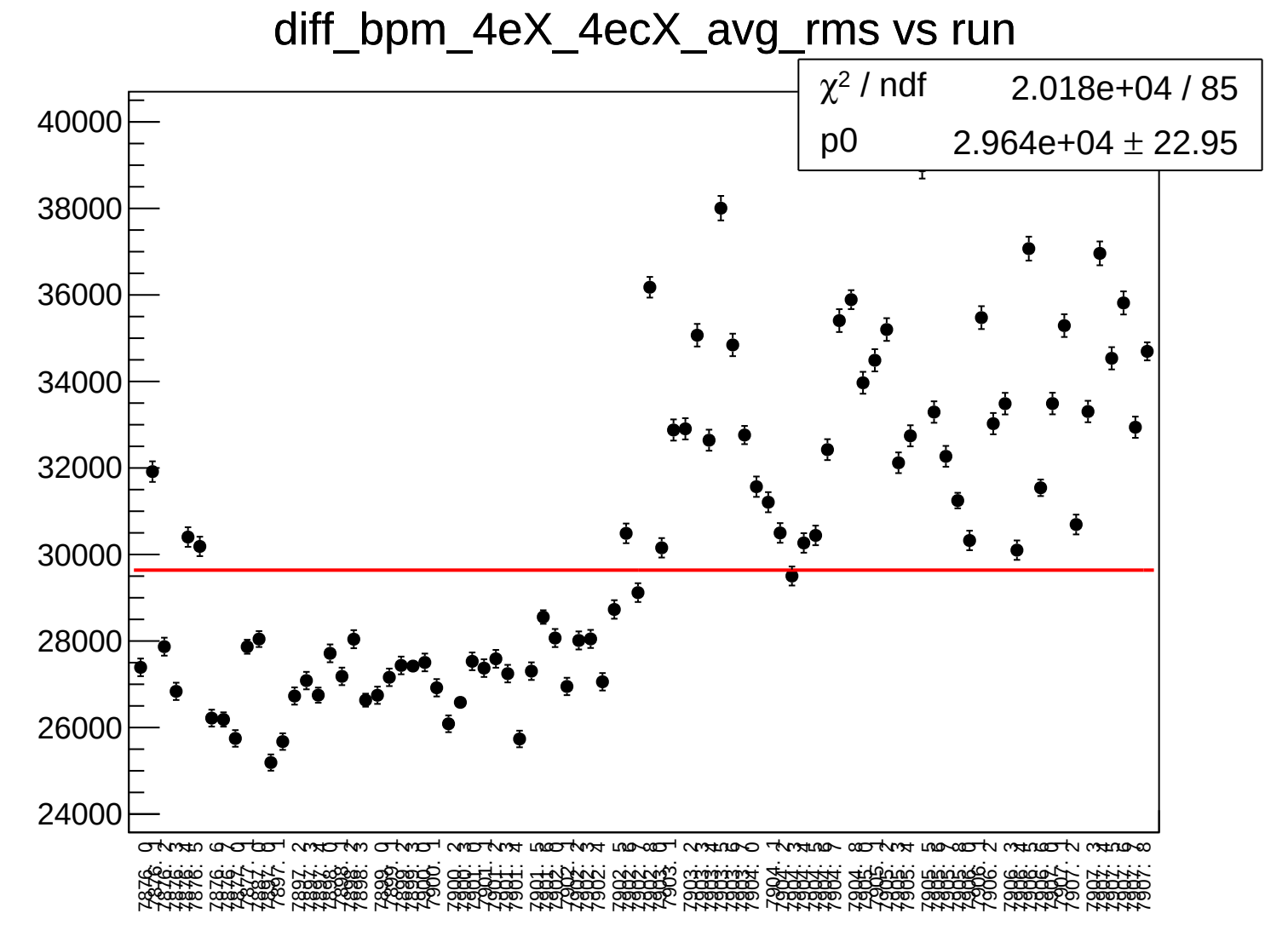

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2.025e+04 / 85
p0 3.021e+04 ± 23.39
40000
38000
36000
34000
32000
30000
28000
26000

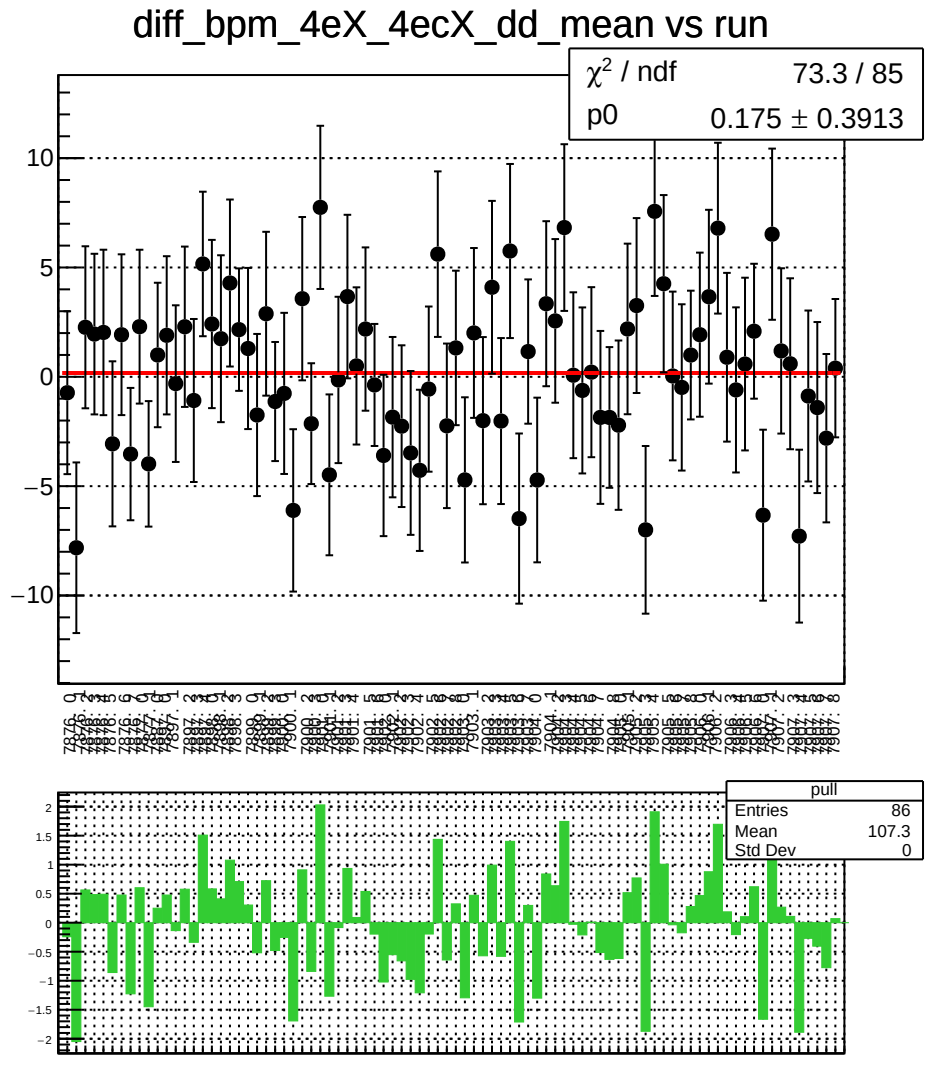

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 85.24 / 85
p0 −1.284 ± 0.6328
pull
Entries 86
Mean 52.77
Std Dev 23.05
pull1D
Entries 86
Mean −0.01803
Std Dev 0.9954

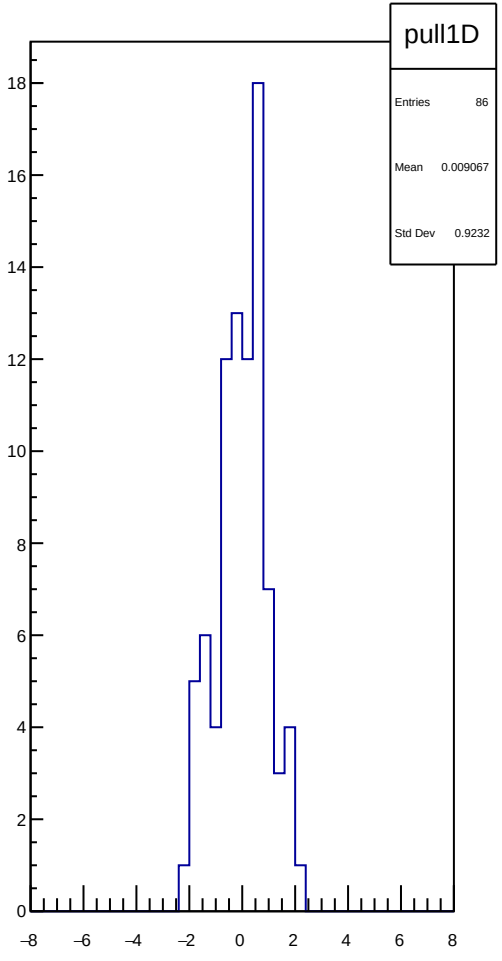

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 4.42e+04 / 85
p0 573.6 ± 0.4474
2000
1800
1600
1400
1200
1000
800
600
400

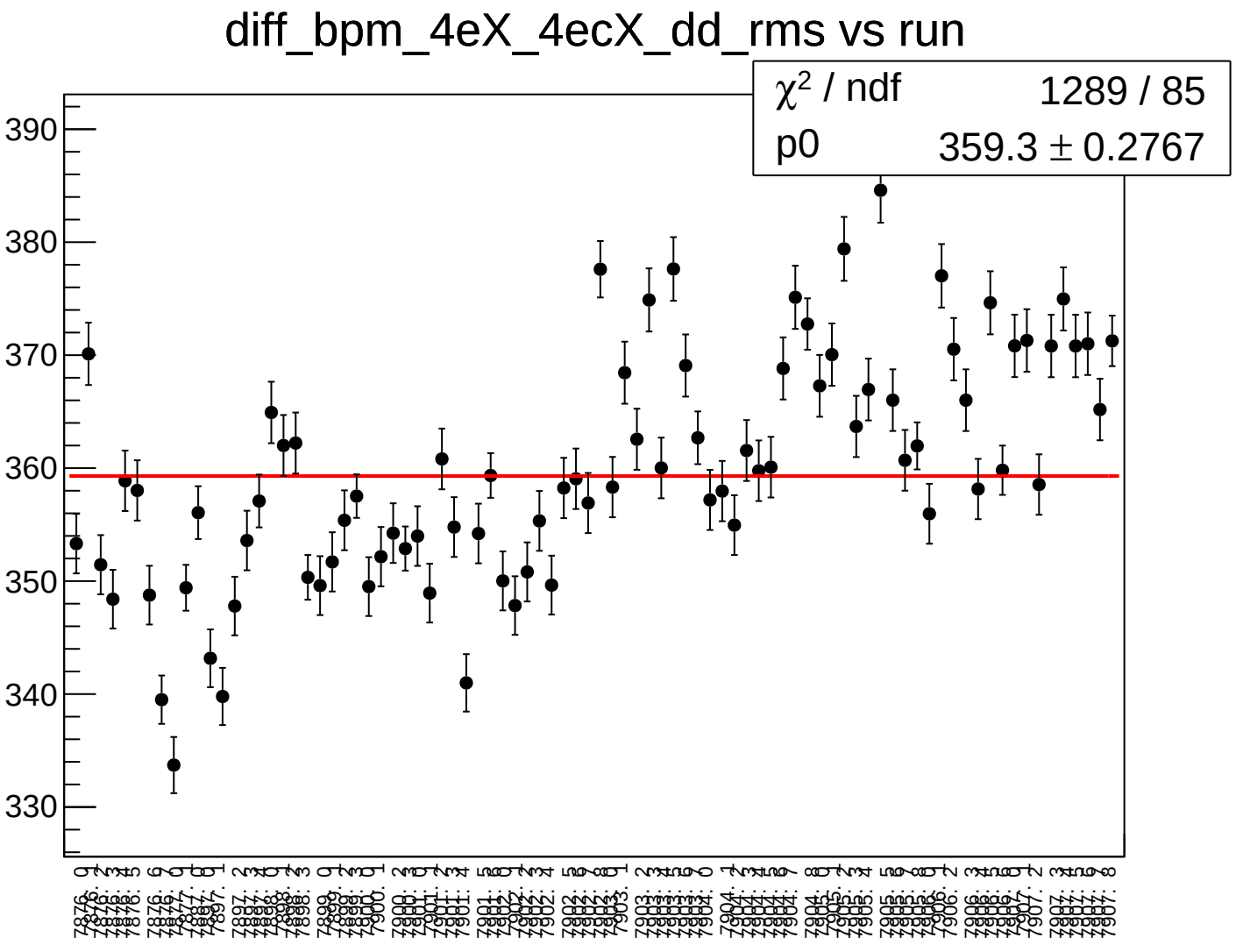

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 83.69 / 85
p0 −51.67 ± 32.46
1000
500
0
−500
−1000
pull
Entries 86
Mean −40.05
Std Dev 0
3
2
1
0
−1
−2

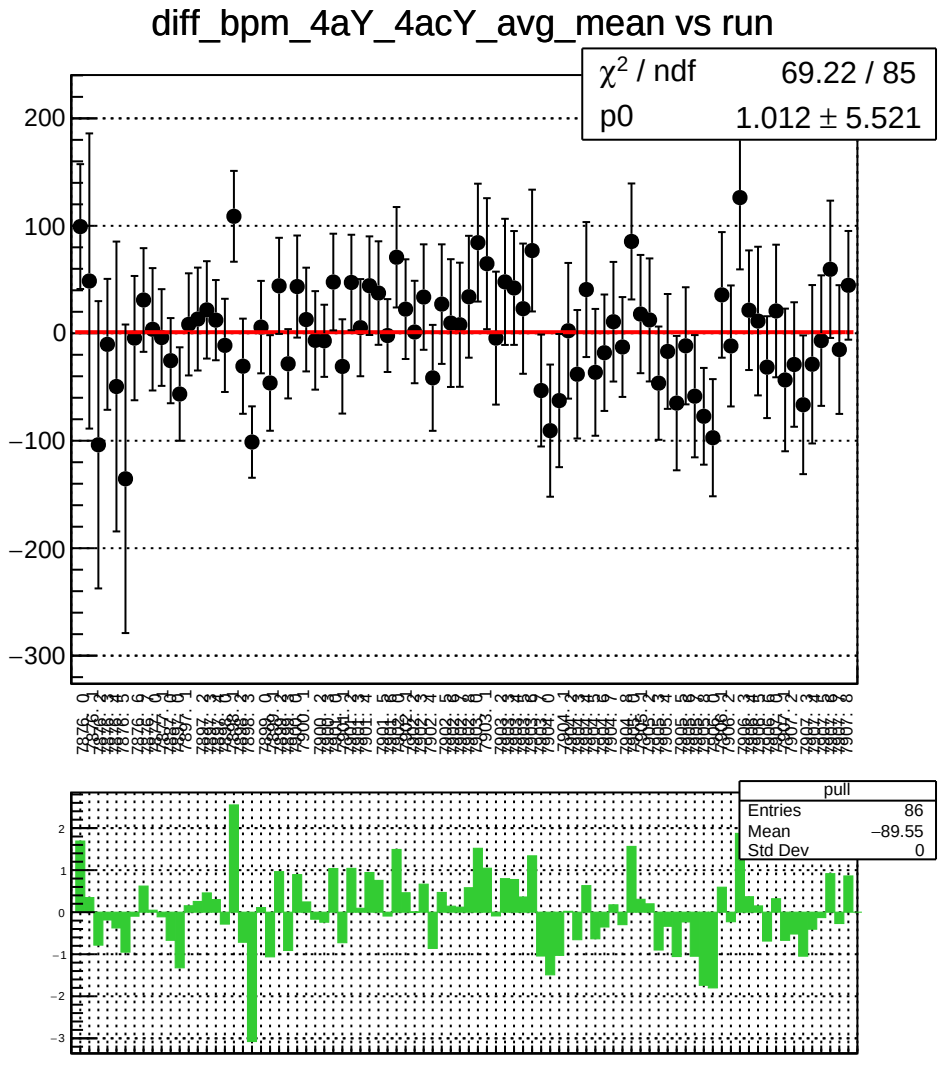

pull1D
Entries 86
Mean 0.01145
Std Dev 0.9864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

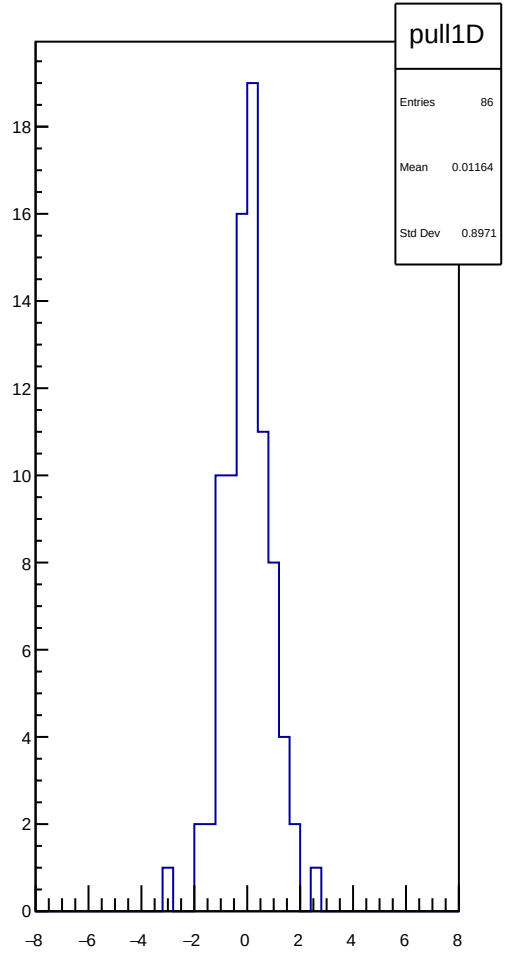

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2.018e+04 / 85
p0 2.964e+04 ± 22.95
40000
38000
36000
34000
32000
30000
28000
26000
24000

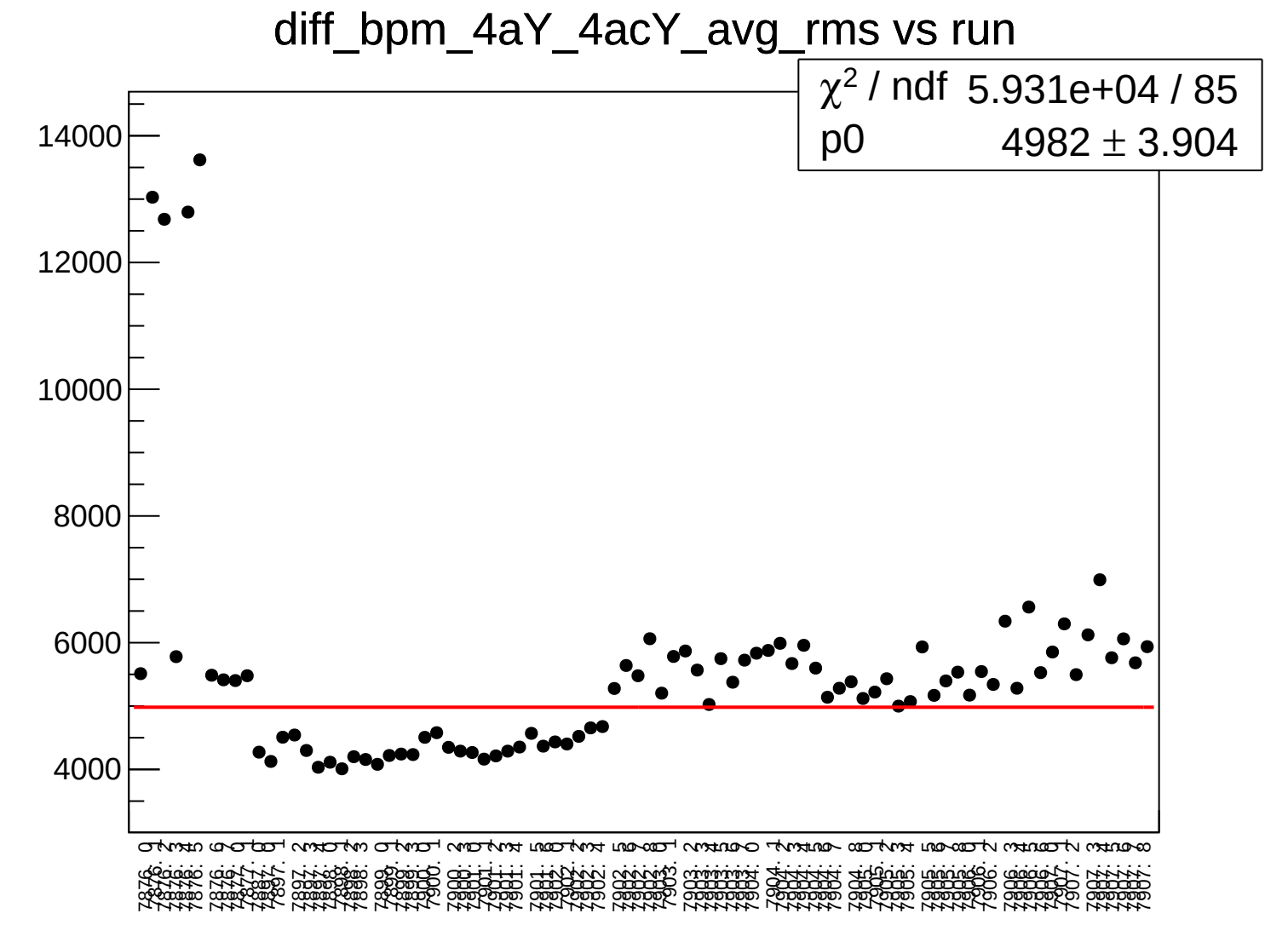

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 73.3 / 85
p0 0.175 ± 0.3913
pull
Entries 86
Mean 107.3
Std Dev 0

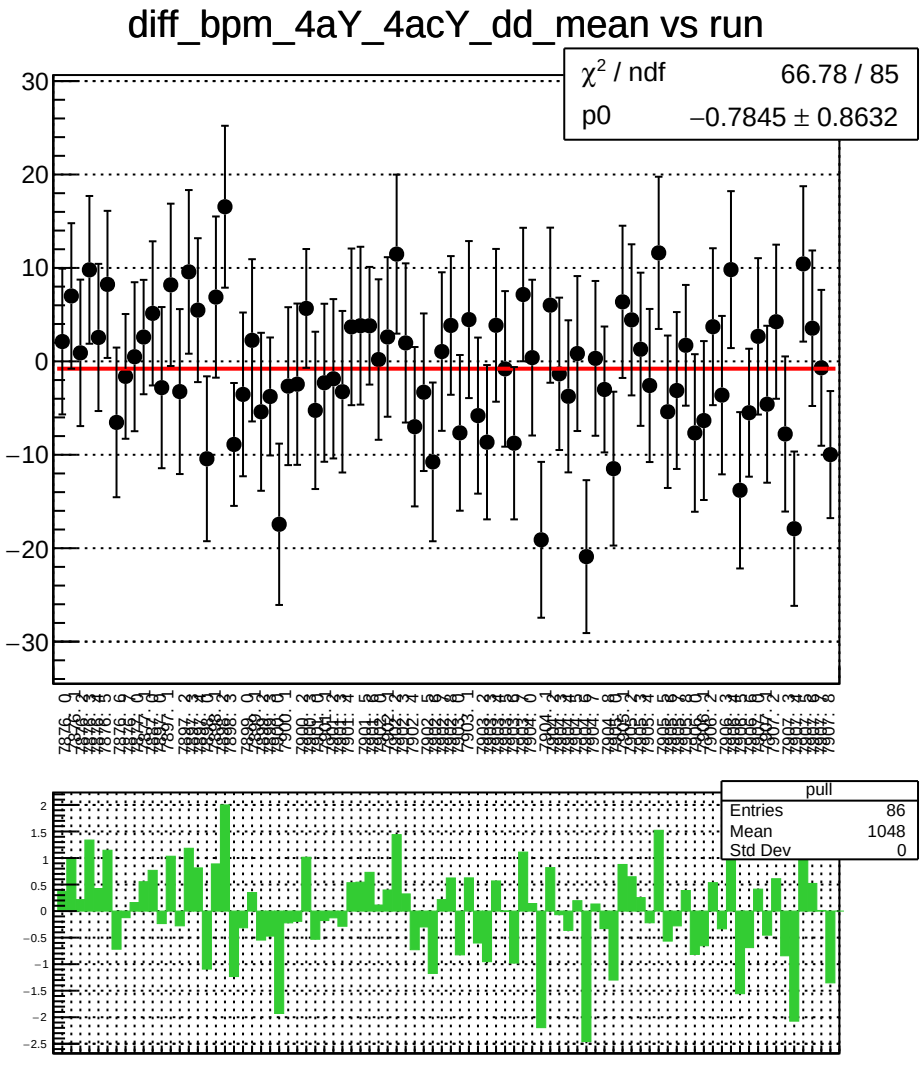

pull1D
Entries 86
Mean 0.009067
Std Dev 0.9232

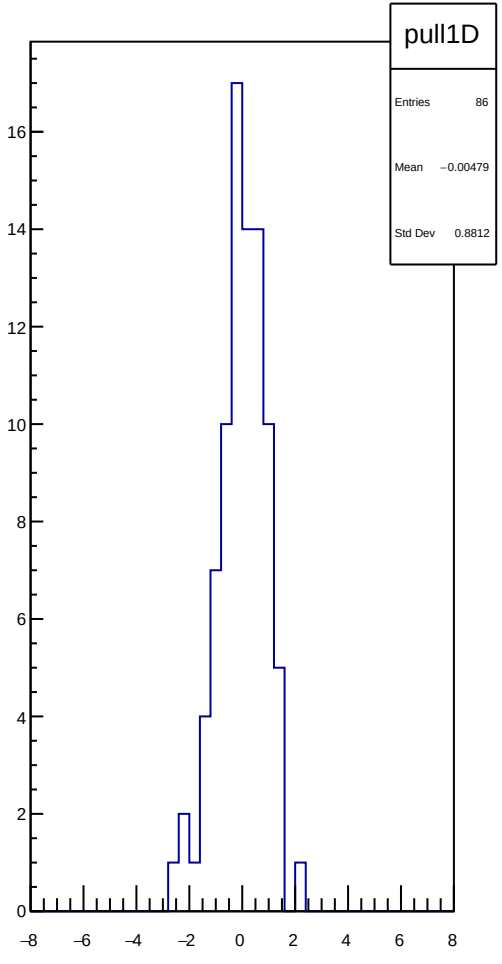

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 1289 / 85
p0 359.3 ± 0.2767
390
380
370
360
350
340
330

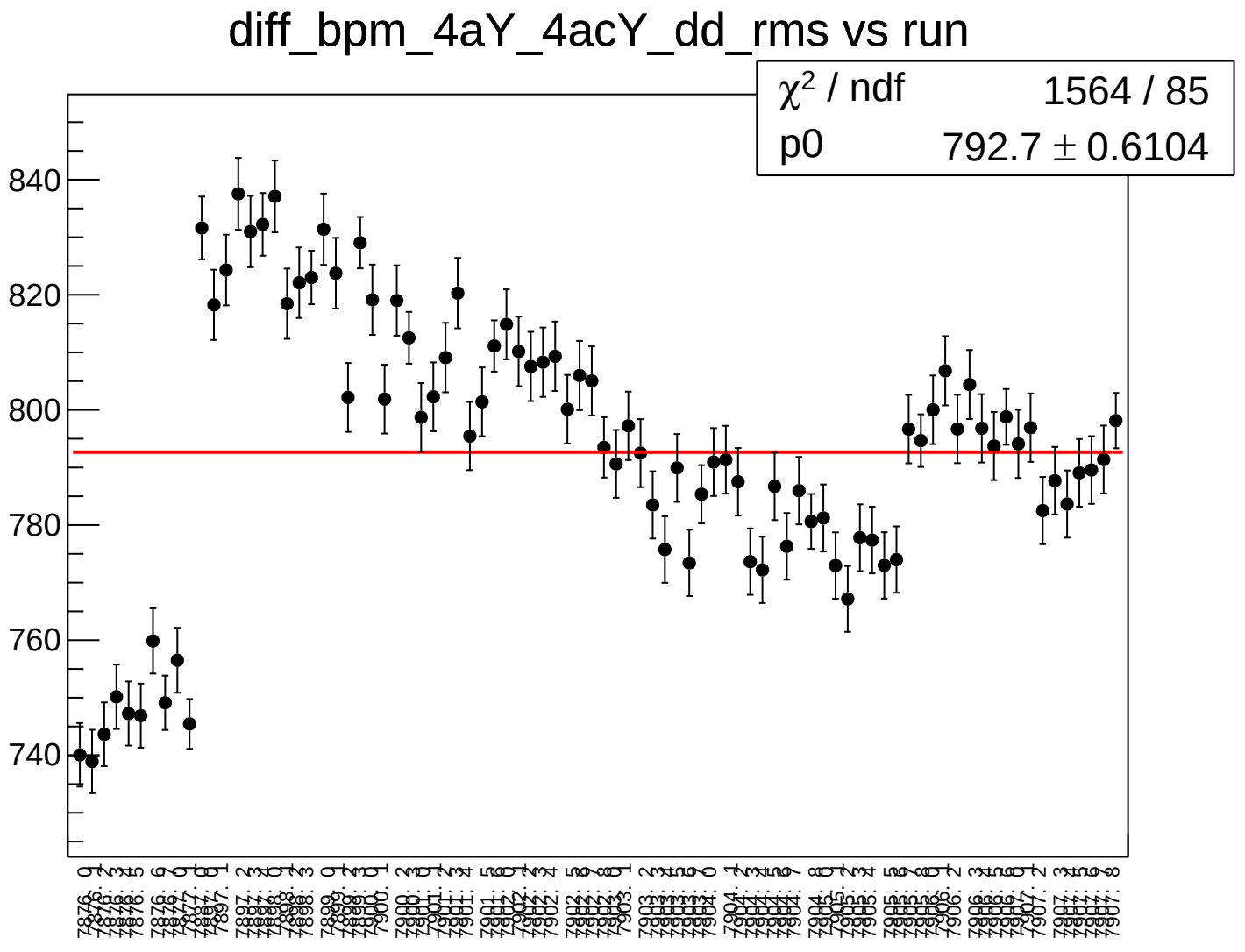

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 69.22 / 85
p0 1.012 ± 5.521
200
100
0
−100
−200
−300
pull
Entries 86
Mean −89.55
Std Dev 0
2
1
0
−1
−2
−3

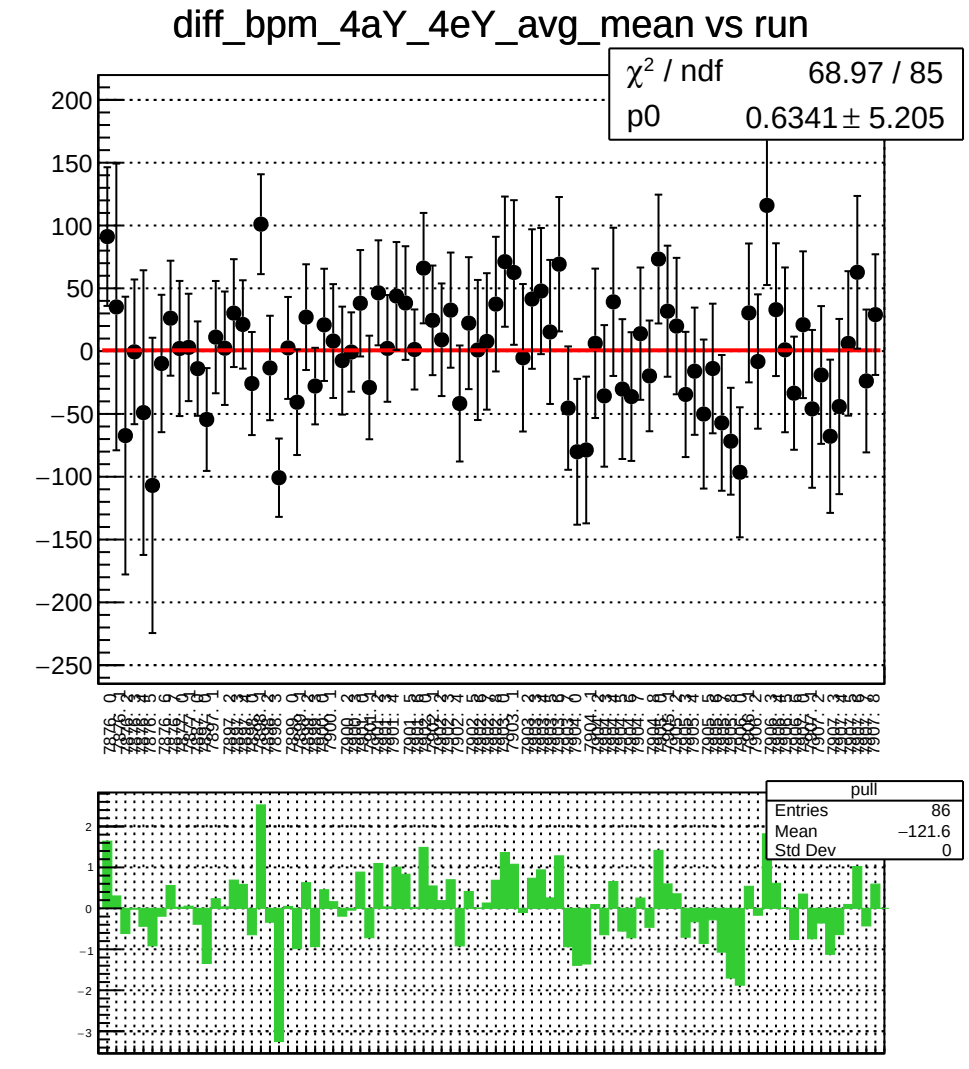

pull1D
Entries 86
Mean 0.01164
Std Dev 0.8971
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

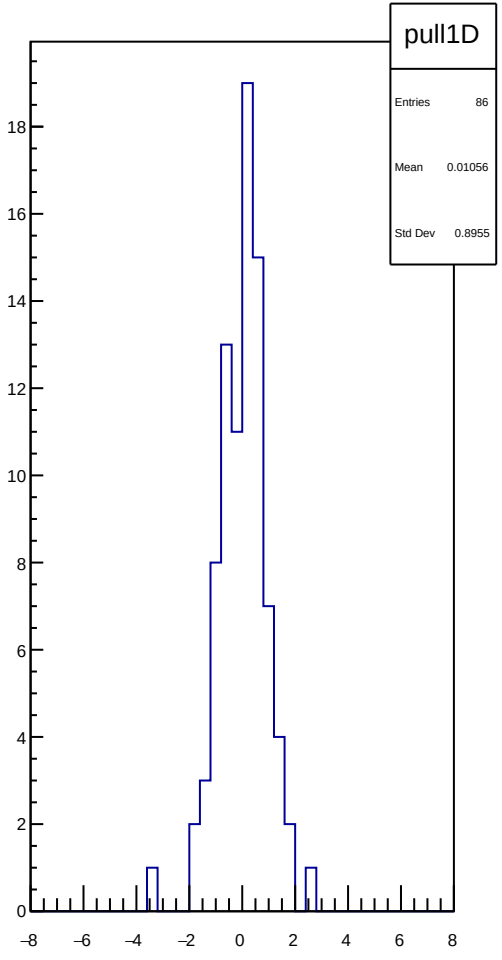

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 5.931e+04 / 85
p0 4982 ± 3.904
14000
12000
10000
8000
6000
4000

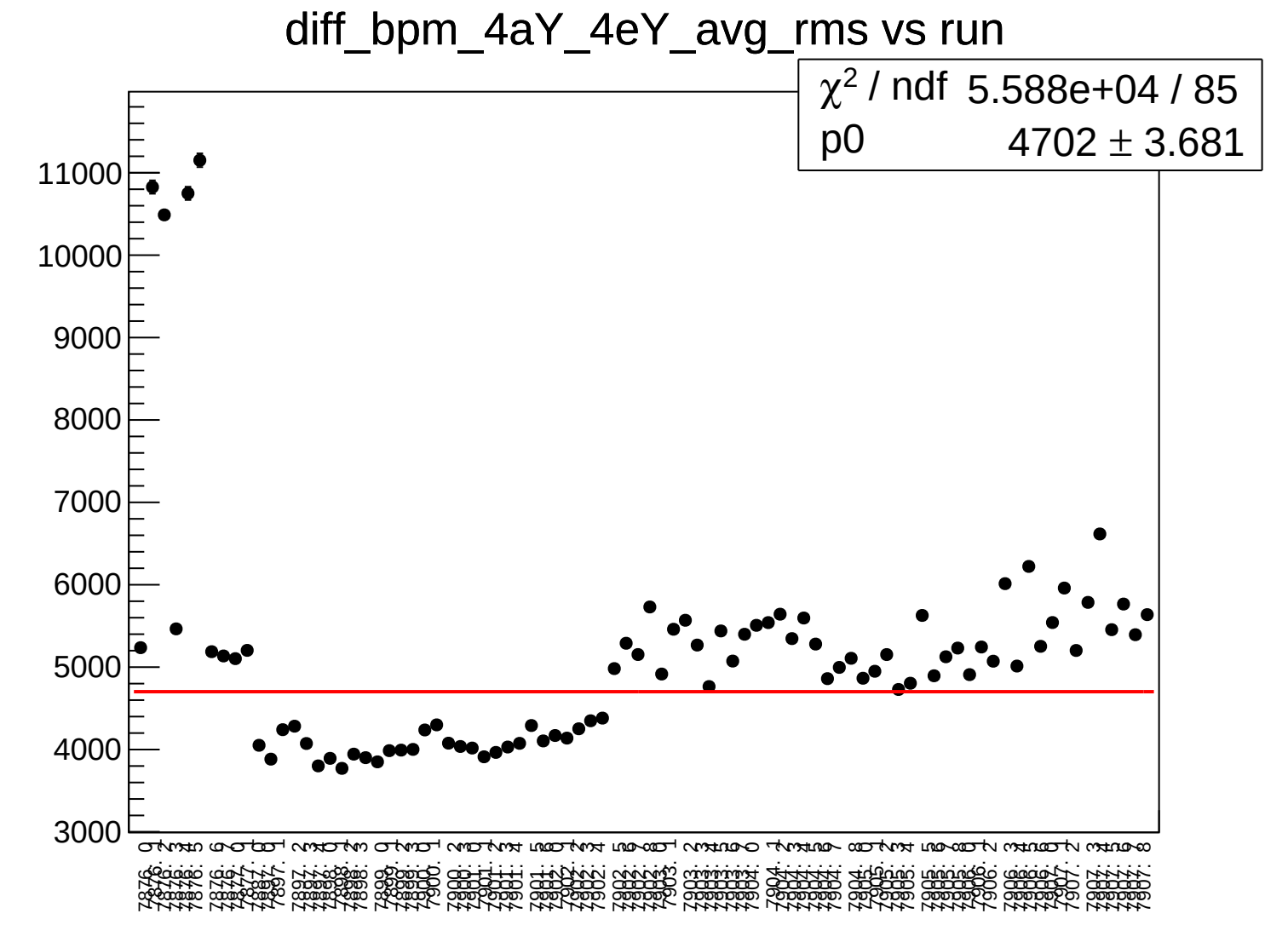

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 66.78 / 85
p0 −0.7845 ± 0.8632
pull
Entries 86
Mean 1048
Std Dev 0

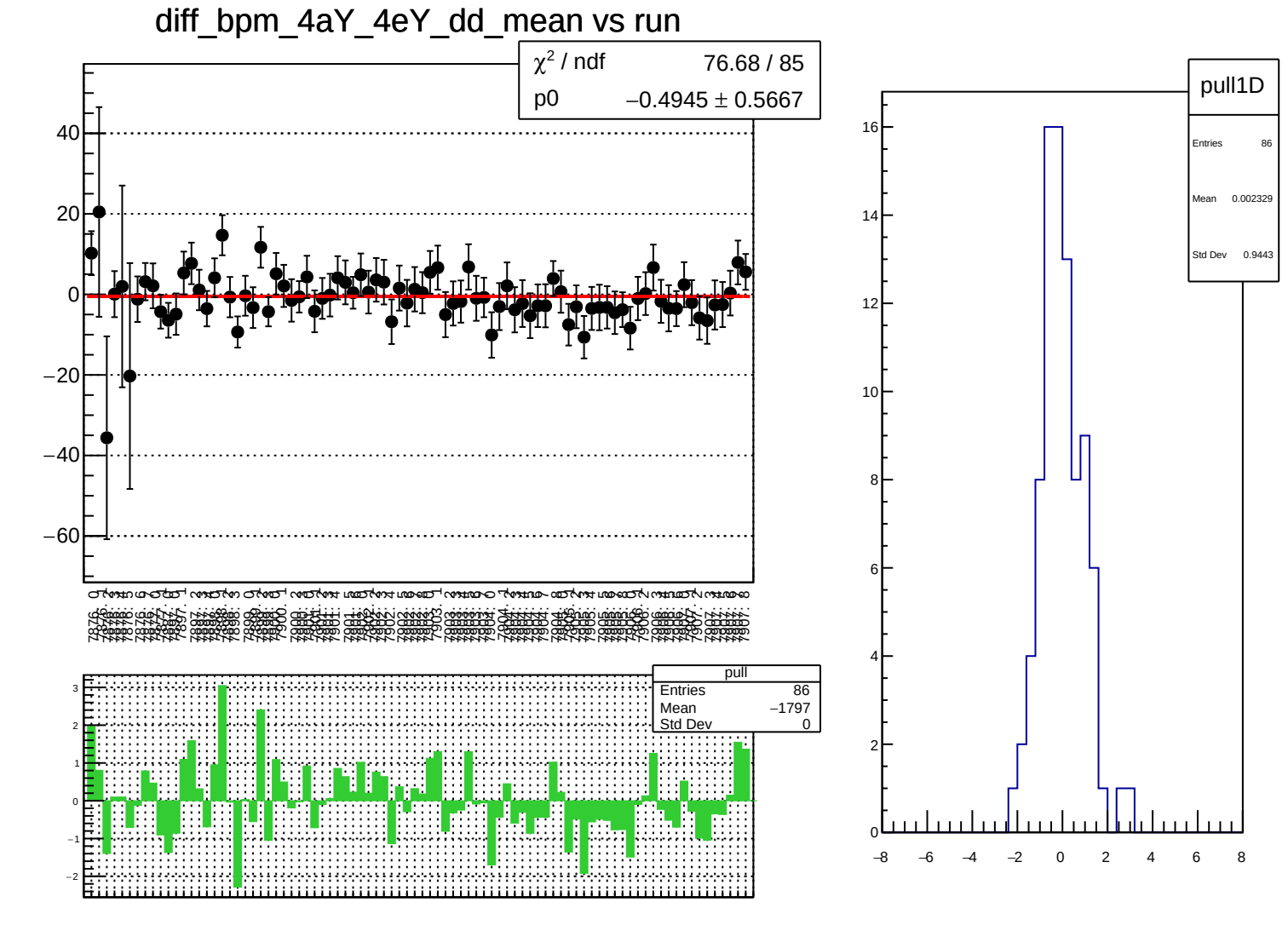

pull1D
Entries 86
Mean −0.00479
Std Dev 0.8812

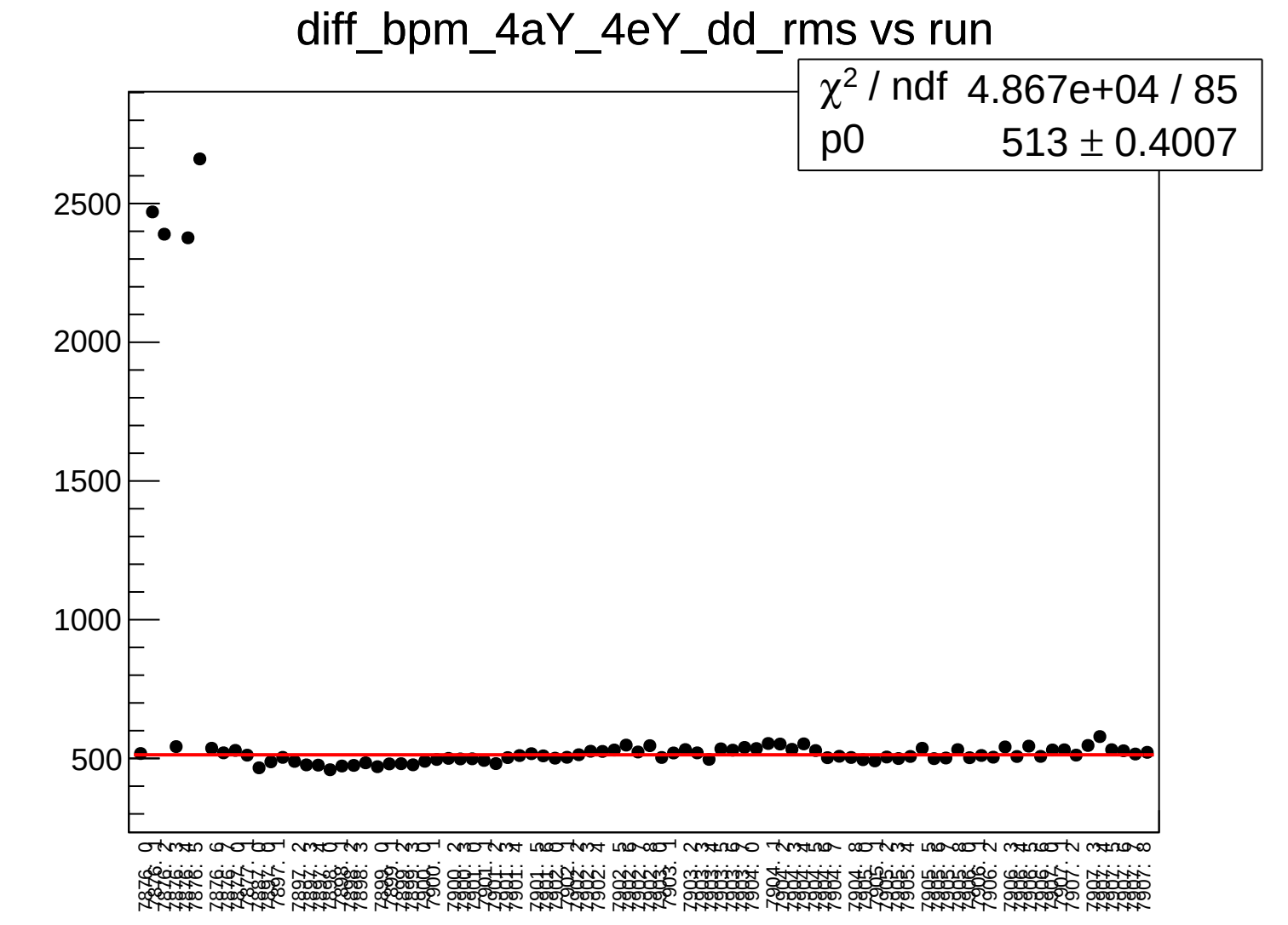

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 1564 / 85
p0 792.7 ± 0.6104
840
820
800
780
760
740

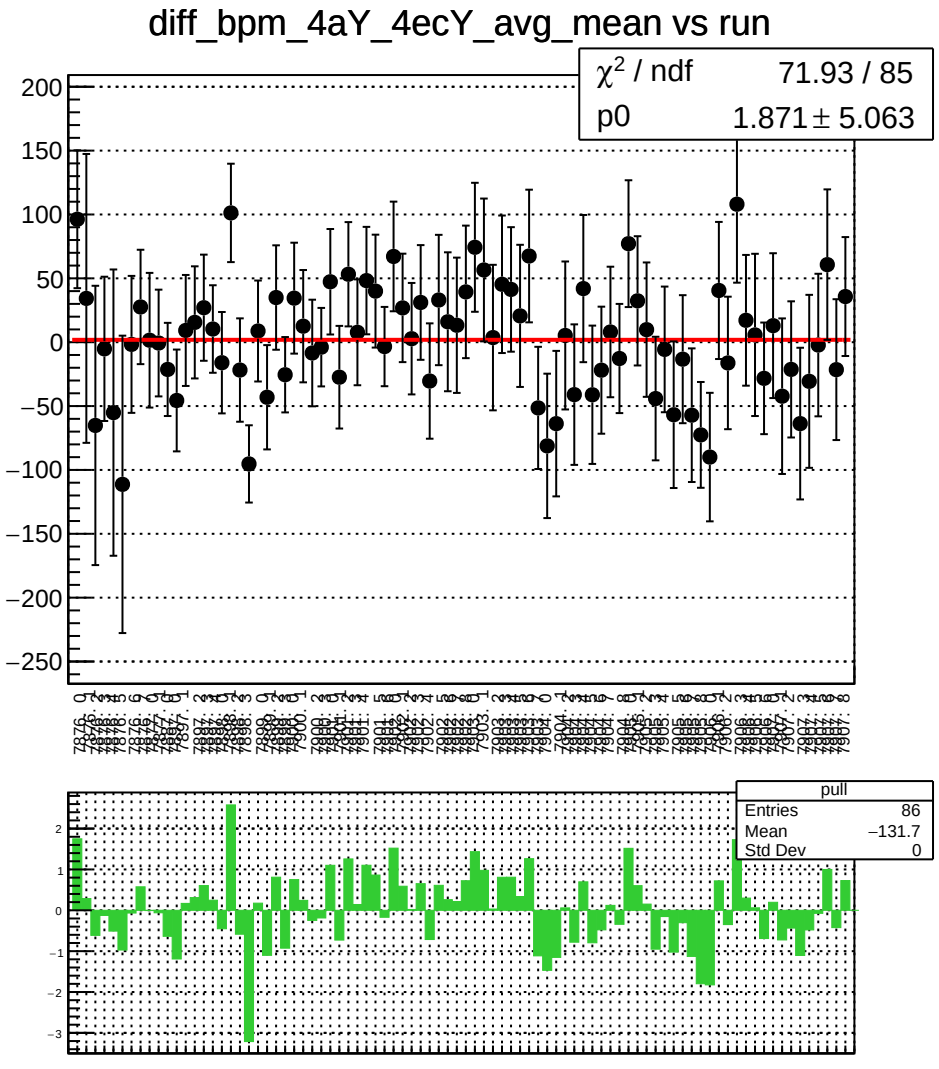

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 68.97 / 85
p0 0.6341 ± 5.205
pull
Entries 86
Mean −121.6
Std Dev 0

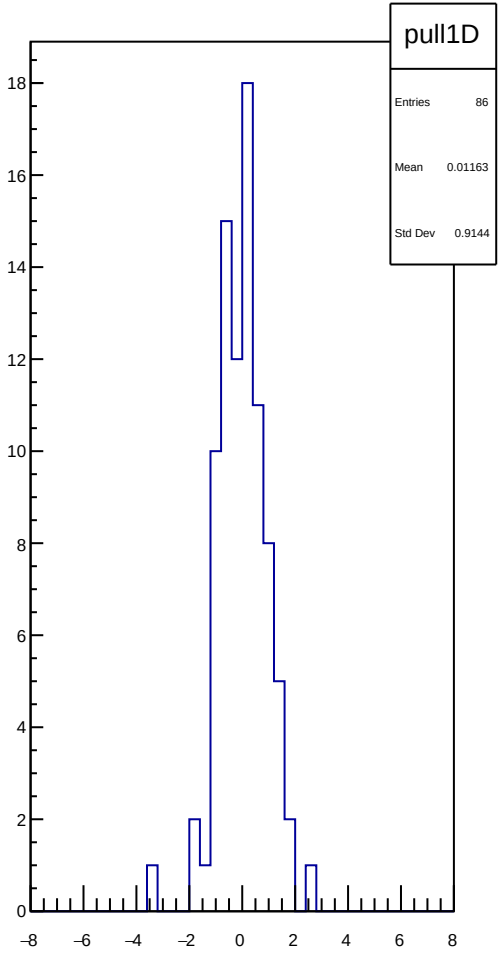

pull1D
Entries 86
Mean 0.01056
Std Dev 0.8955

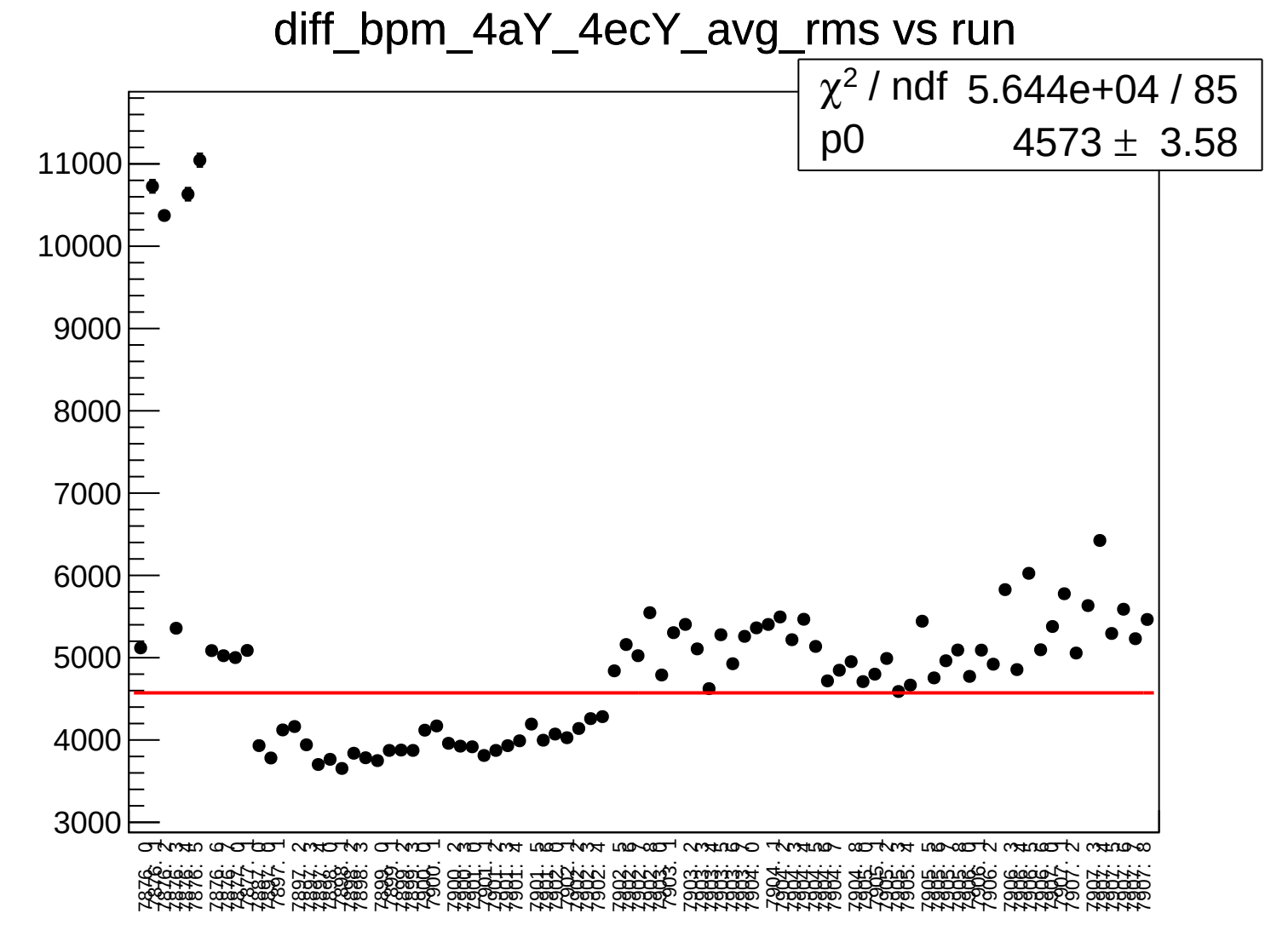

diff_bpm_4aY_4eY_avg_rms vs run
χ^2 / ndf 5.588e+04 / 85
p0 4702 ± 3.681
11000
10000
9000
8000
7000
6000
5000
4000
3000

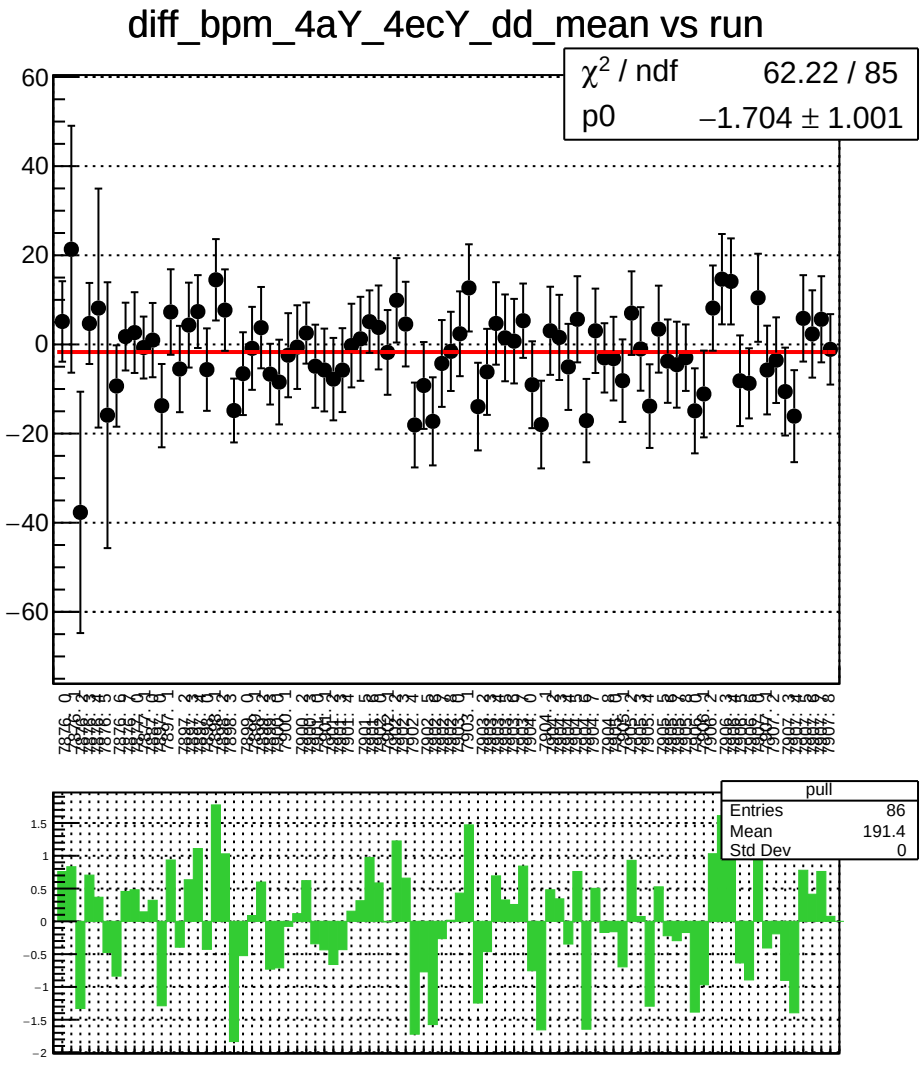

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 76.68 / 85
p0 −0.4945 ± 0.5667
pull
Entries 86
Mean −1797
Std Dev 0
pull1D
Entries 86
Mean 0.002329
Std Dev 0.9443

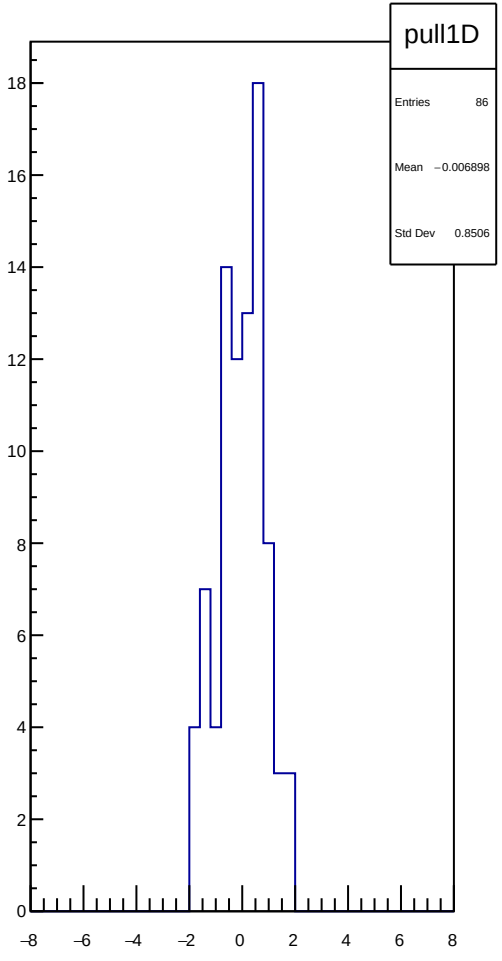

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 4.867e+04 / 85
p0 513 ± 0.4007
2500
2000
1500
1000
500

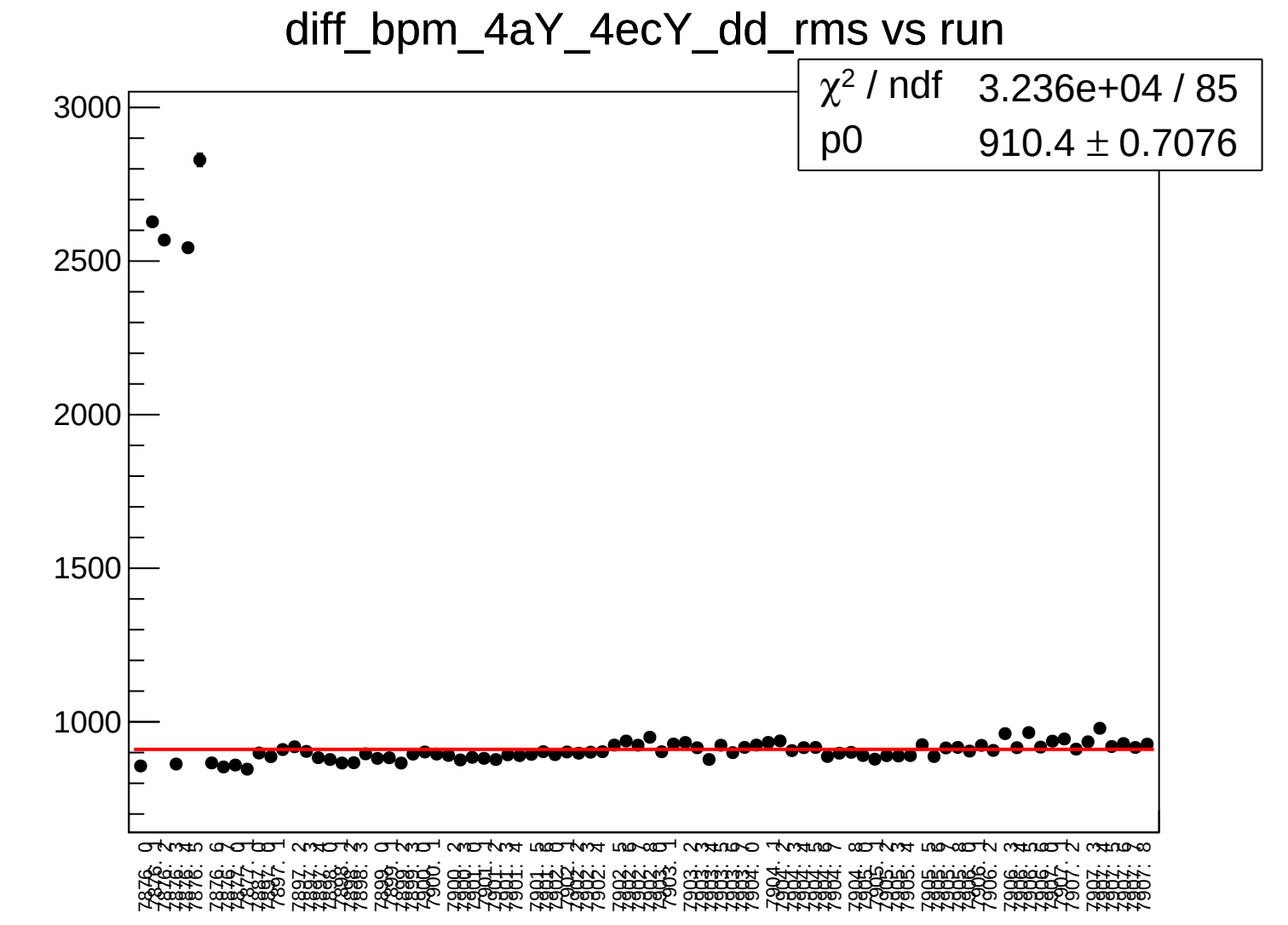

diff_bpm_4aY_4ecY_avg_mean vs run
χ^2 / ndf 71.93 / 85
p0 1.871 ± 5.063
pull
Entries 86
Mean −131.7
Std Dev 0

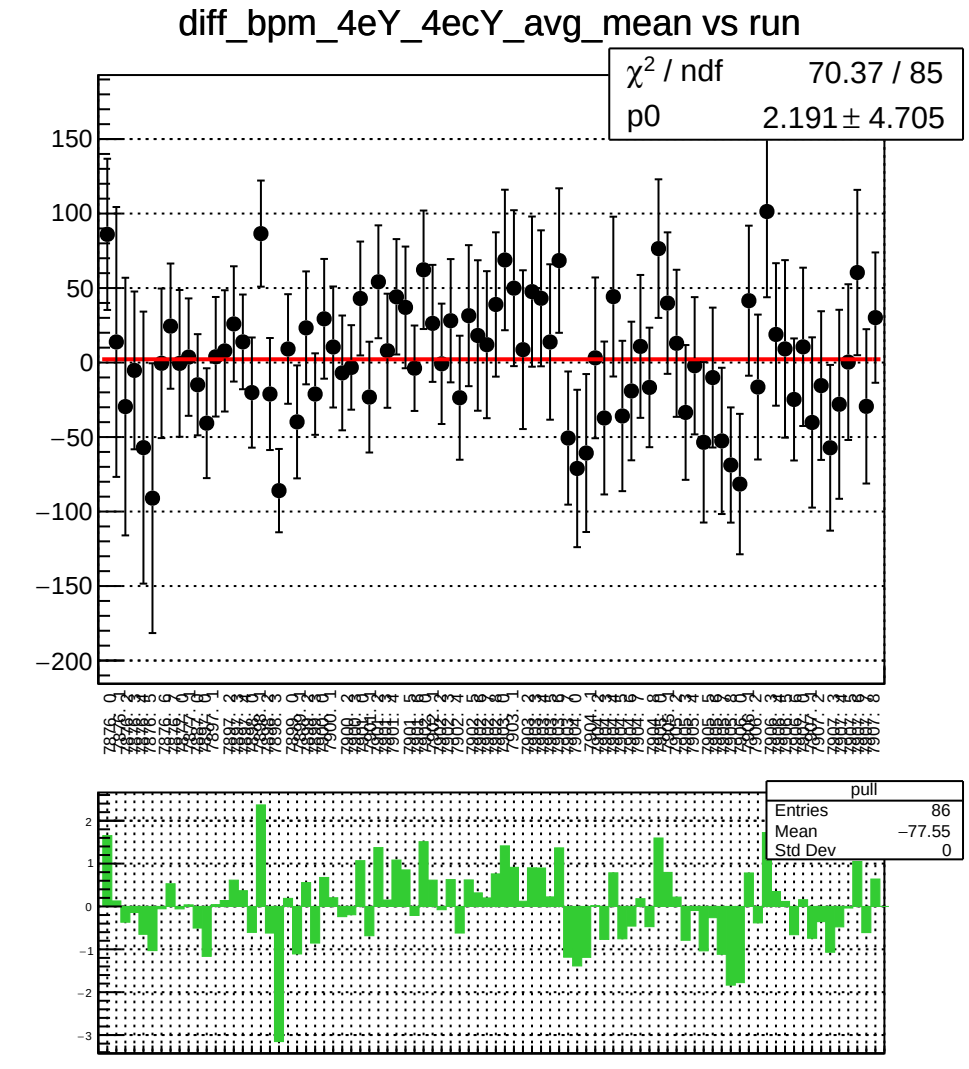

pull1D
Entries 86
Mean 0.01163
Std Dev 0.9144

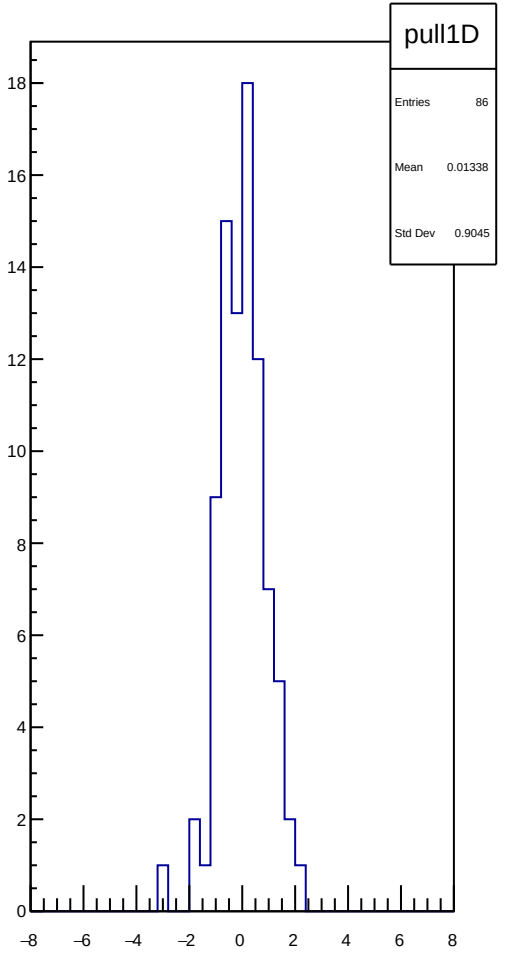

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 5.644e+04 / 85
p0 4573 ± 3.58
11000
10000
9000
8000
7000
6000
5000
4000
3000

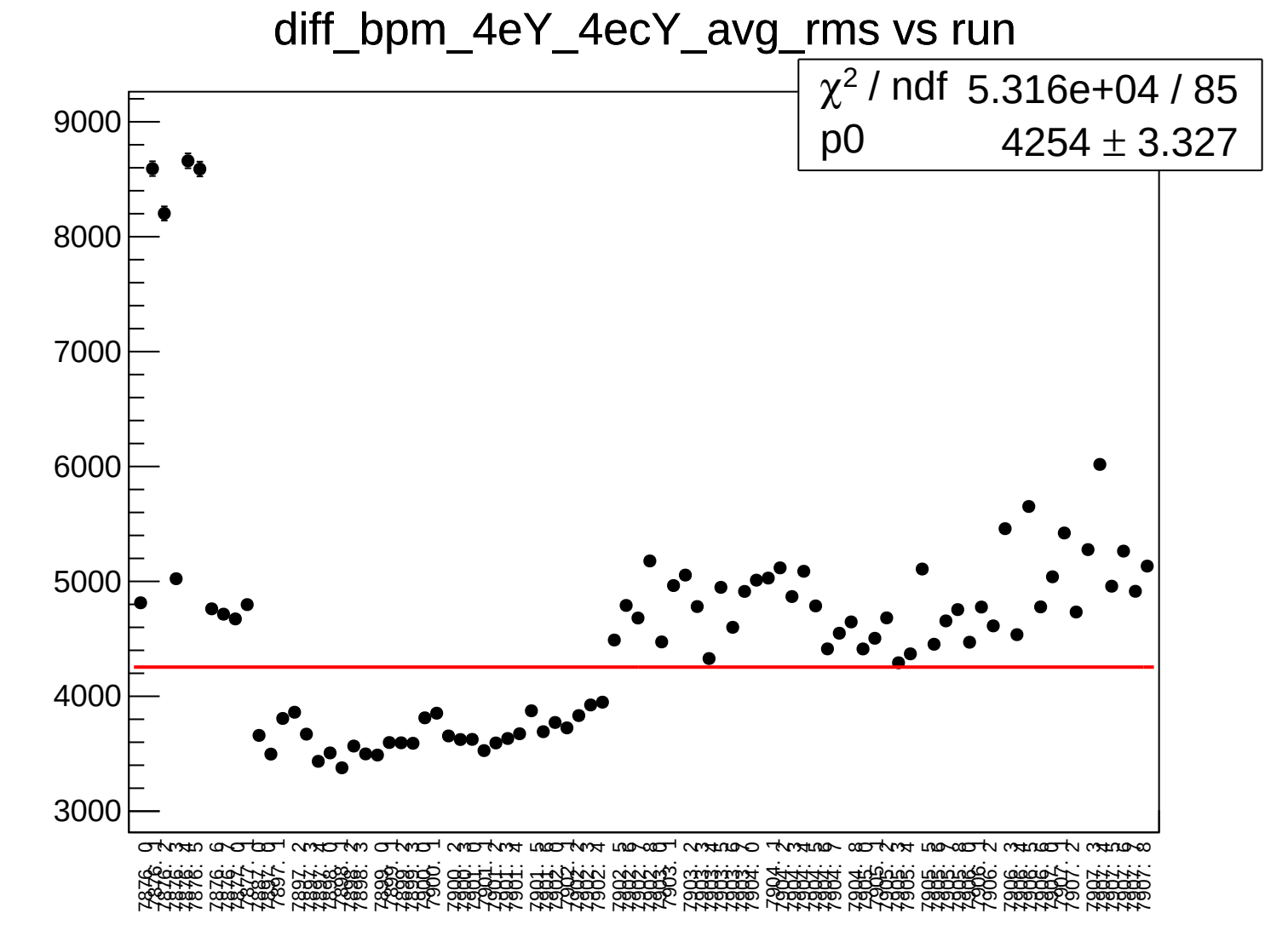

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 62.22 / 85
p0 −1.704 ± 1.001
pull
Entries 86
Mean 191.4
Std Dev 0

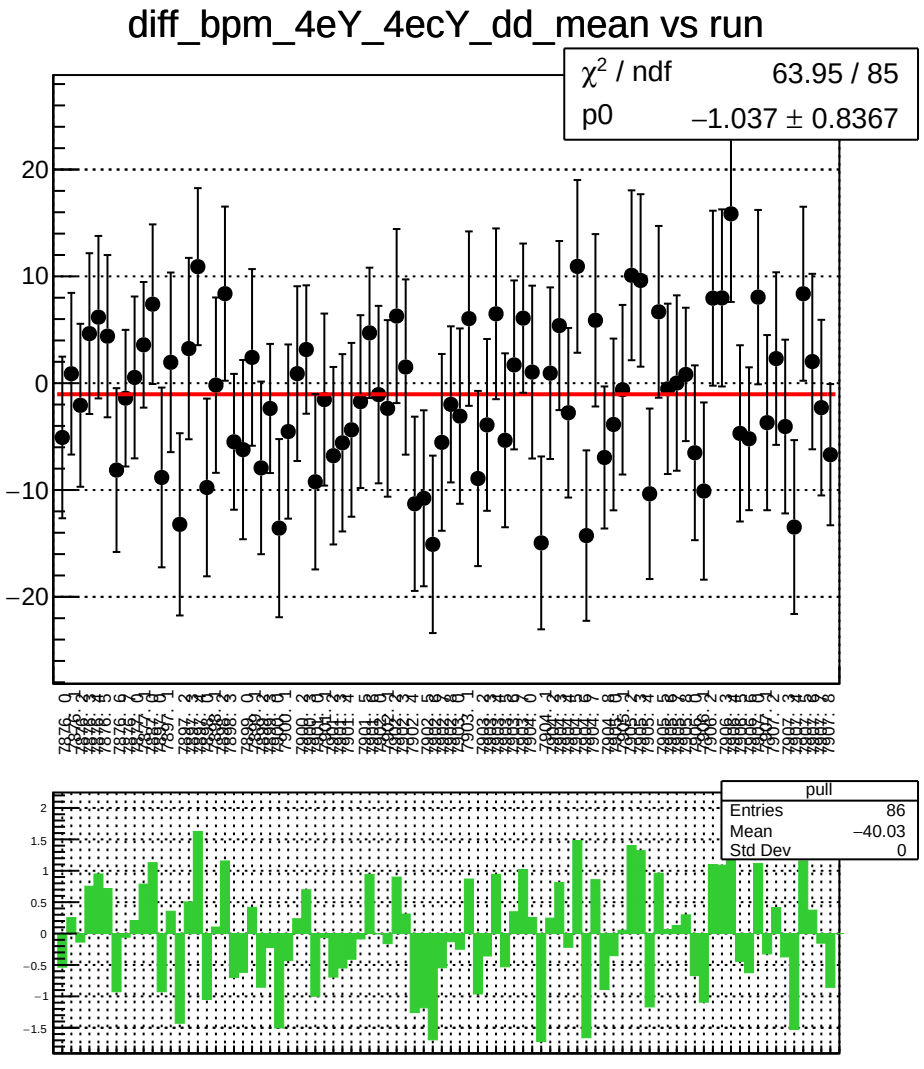

pull1D
Entries 86
Mean −0.006898
Std Dev 0.8506

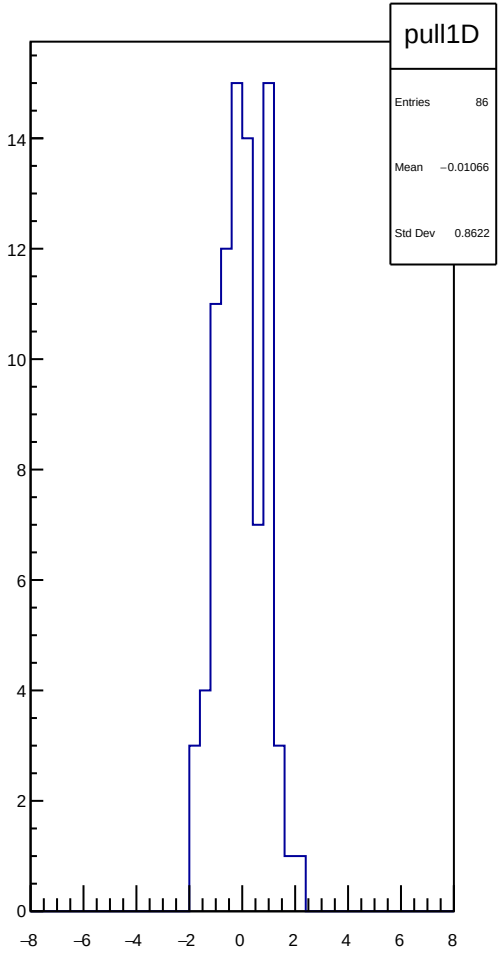

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 3.236e+04 / 85
p0 910.4 ± 0.7076
3000
2500
2000
1500
1000

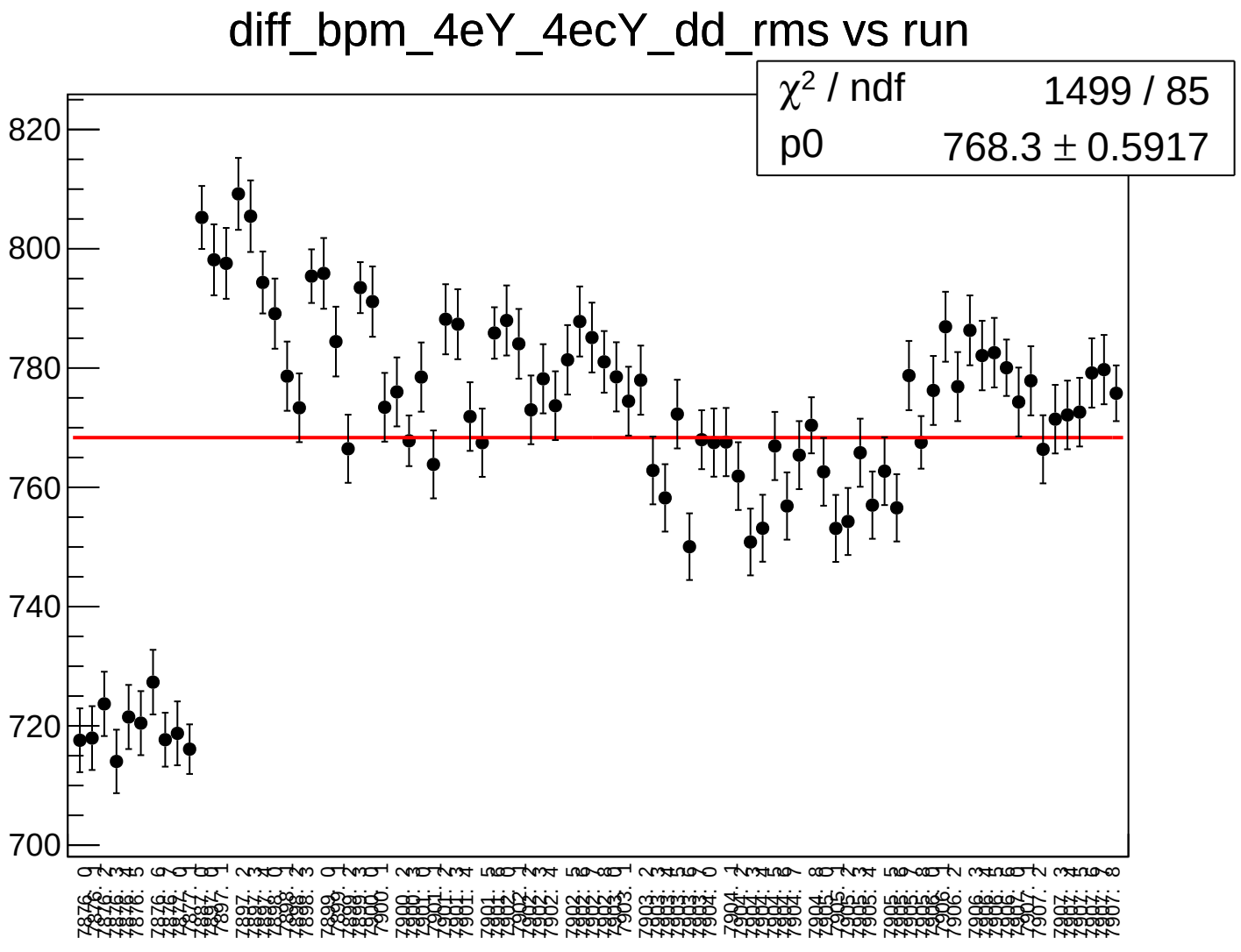

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 70.37 / 85
p0 2.191 ± 4.705
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −77.55
Std Dev 0
2
1
0
−1
−2
−3

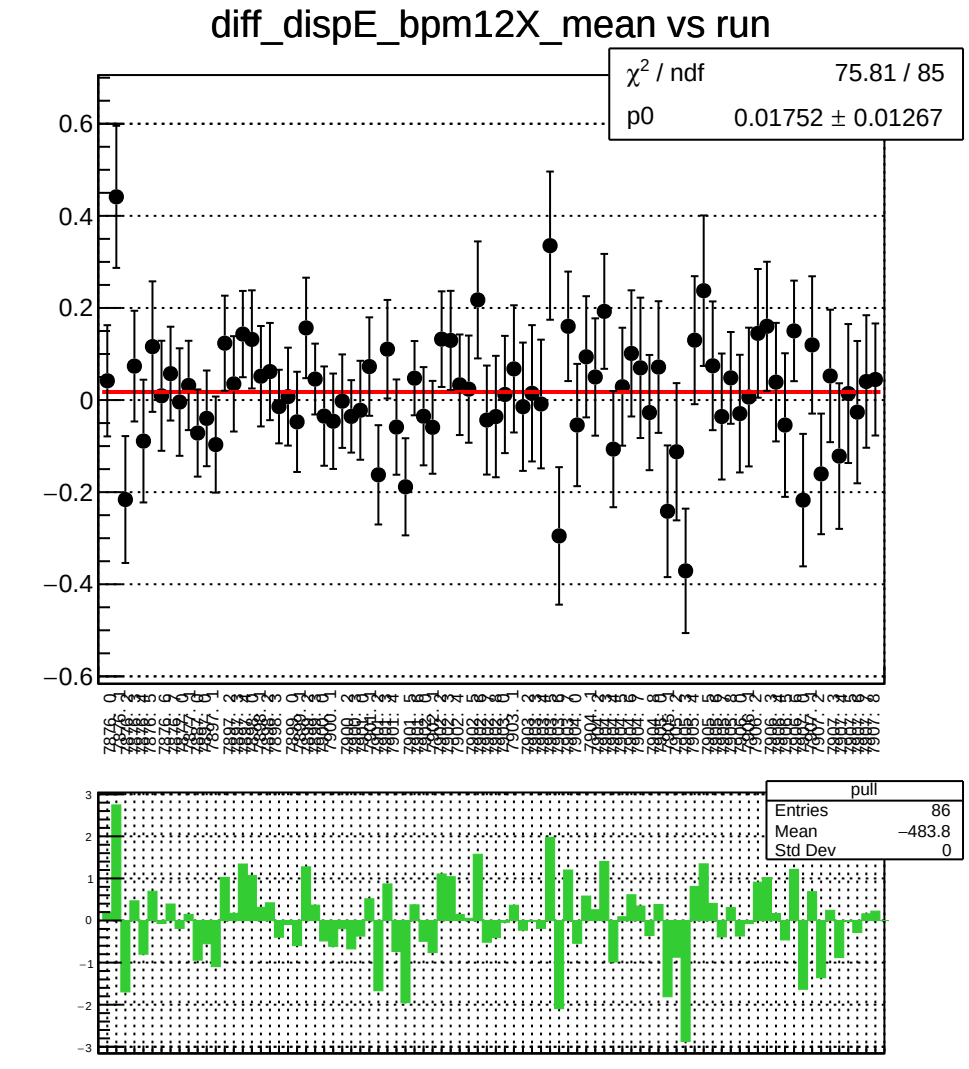

pull1D
Entries 86
Mean 0.01338
Std Dev 0.9045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

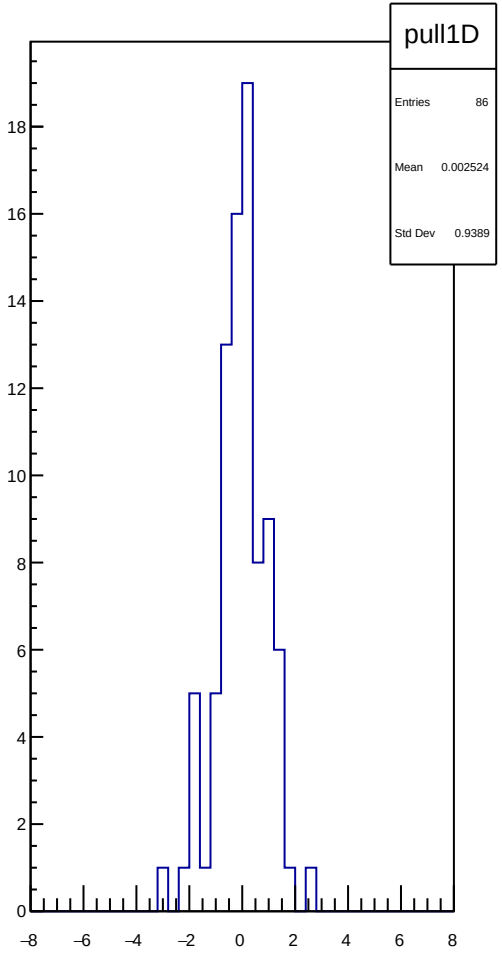

diff_bpm_4eY_4ecY_avg_rms vs run
χ^2 / ndf 5.316e+04 / 85
p0 4254 ± 3.327
9000
8000
7000
6000
5000
4000
3000

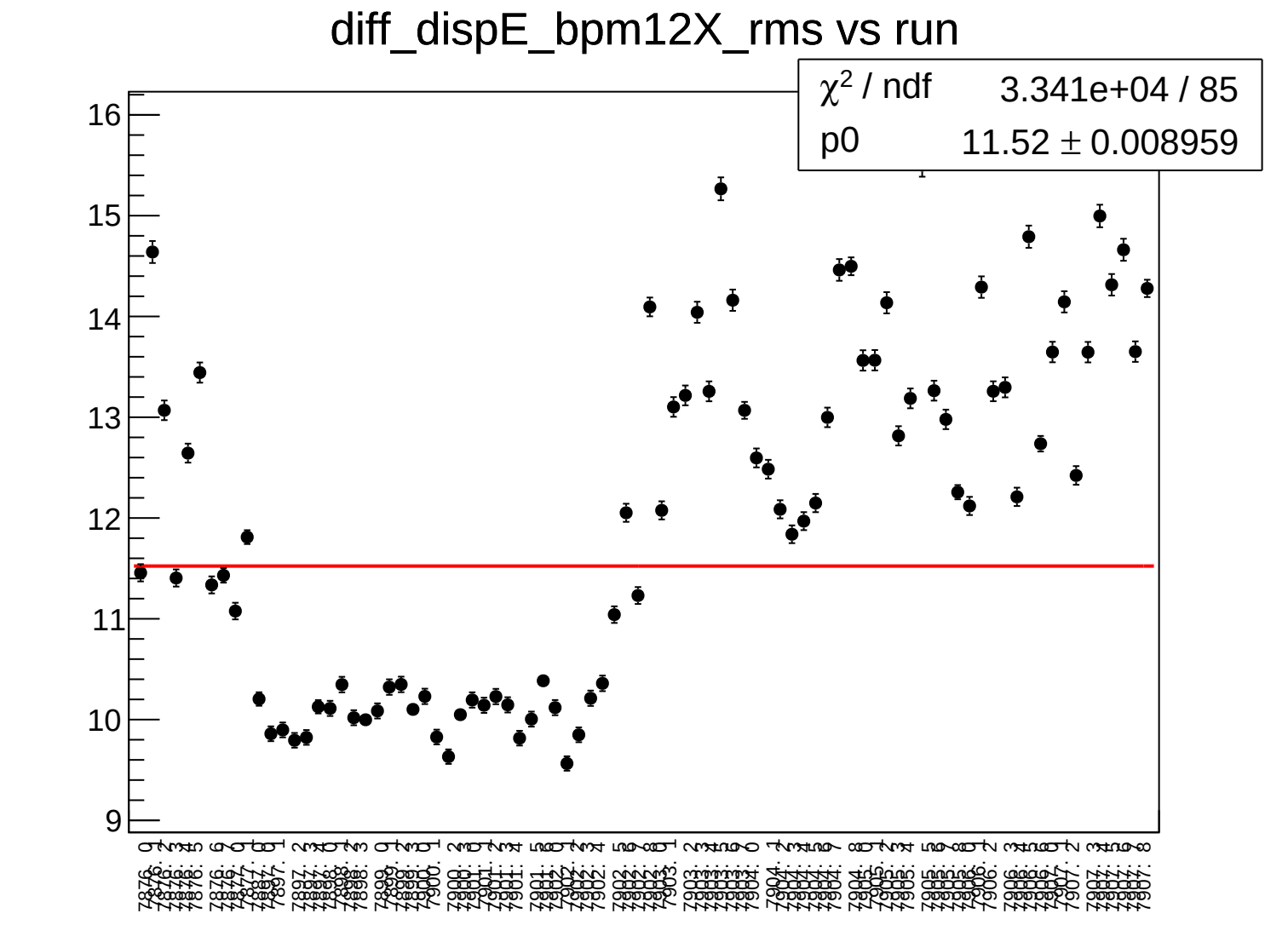

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 63.95 / 85
p0 −1.037 ± 0.8367
pull
Entries 86
Mean −40.03
Std Dev 0

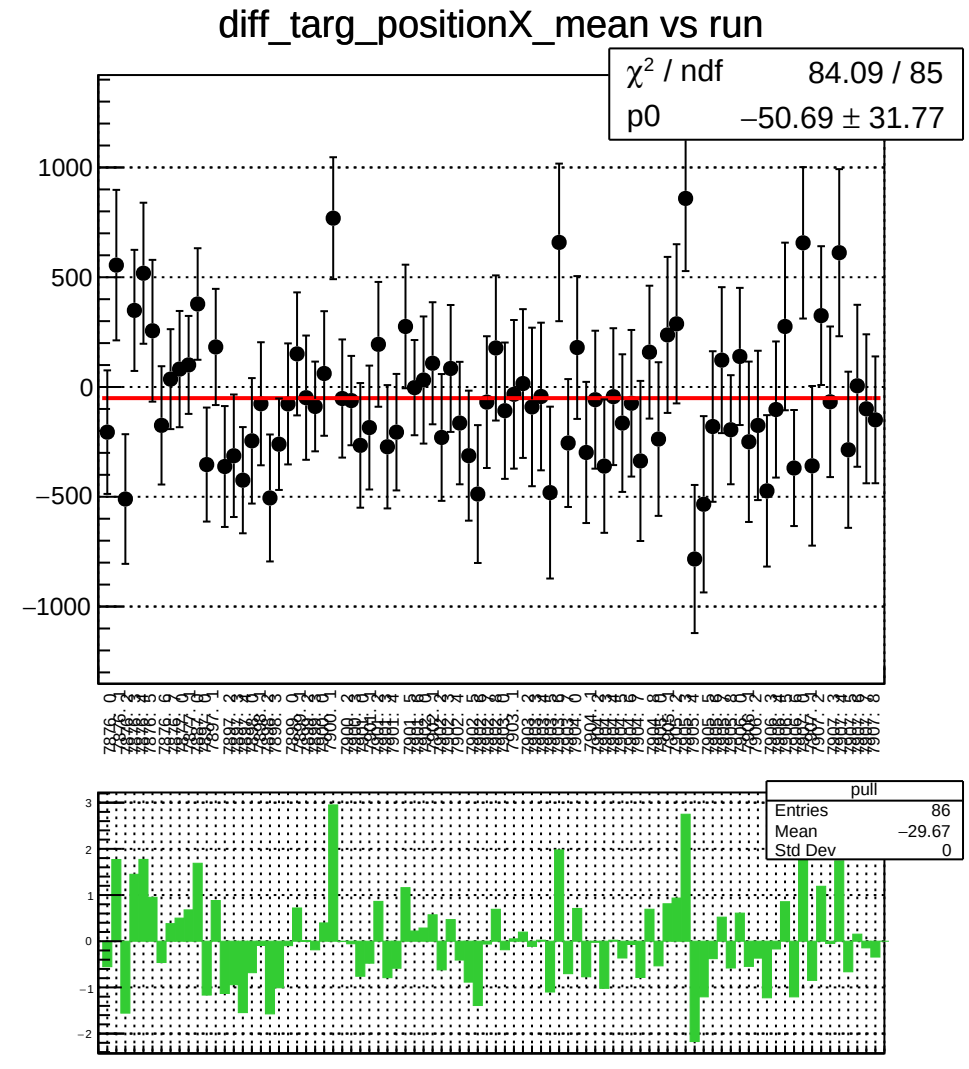

pull1D
Entries 86
Mean −0.01066
Std Dev 0.8622

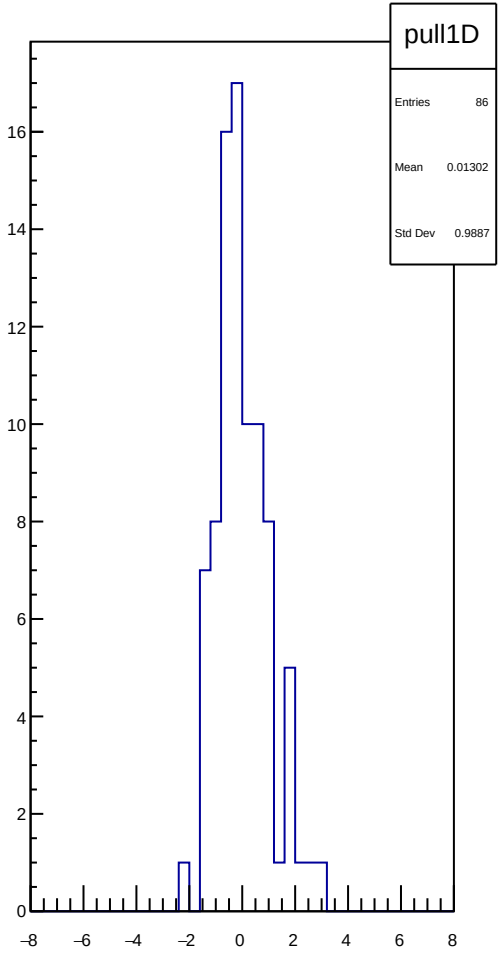

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 1499 / 85
p0 768.3 ± 0.5917
820
800
780
760
740
720
700

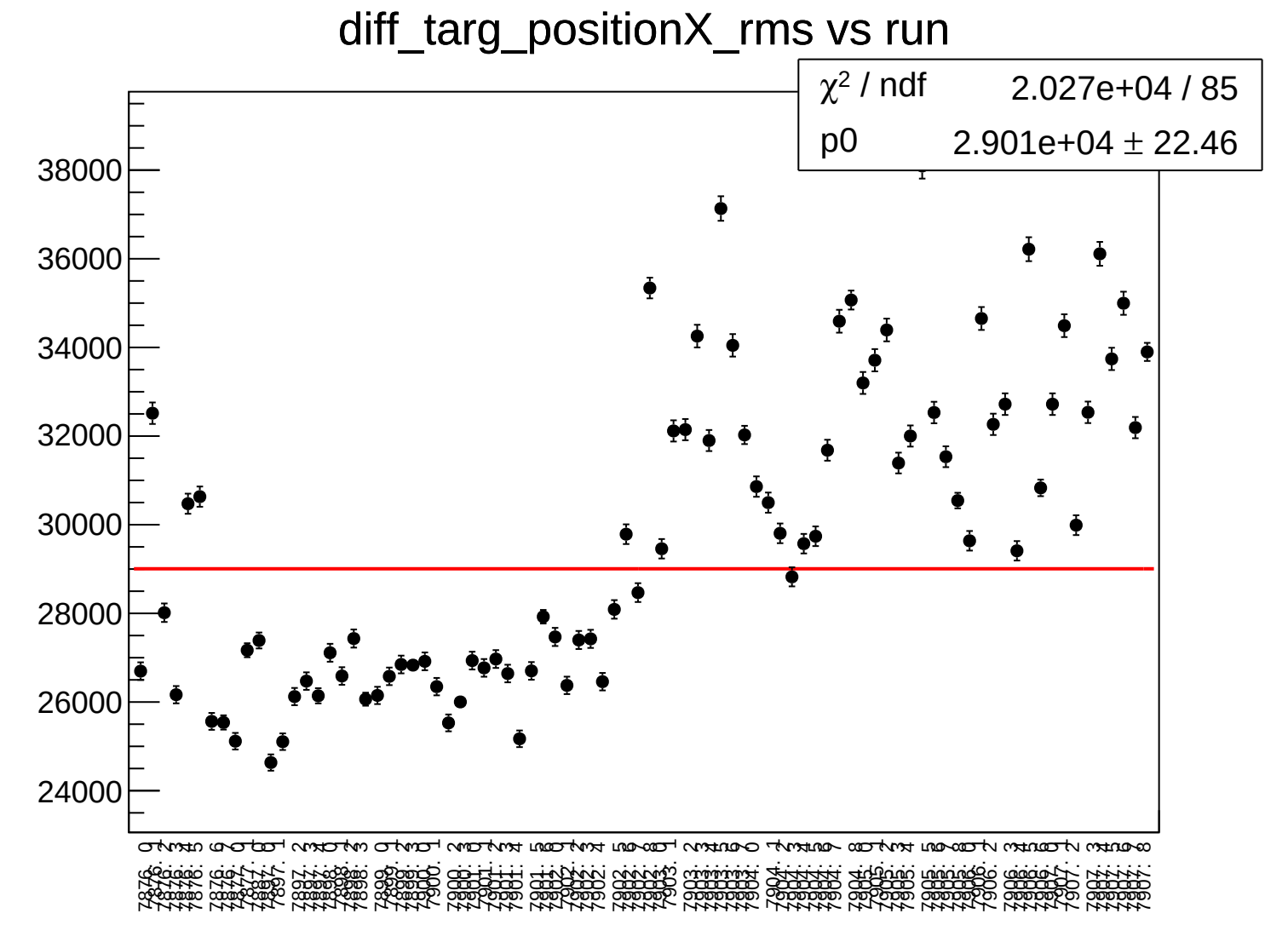

diff_dispE_bpm12X_mean vs run
χ² / ndf 75.81 / 85
p0 0.01752 ± 0.01267
pull
Entries 86
Mean −483.8
Std Dev 0

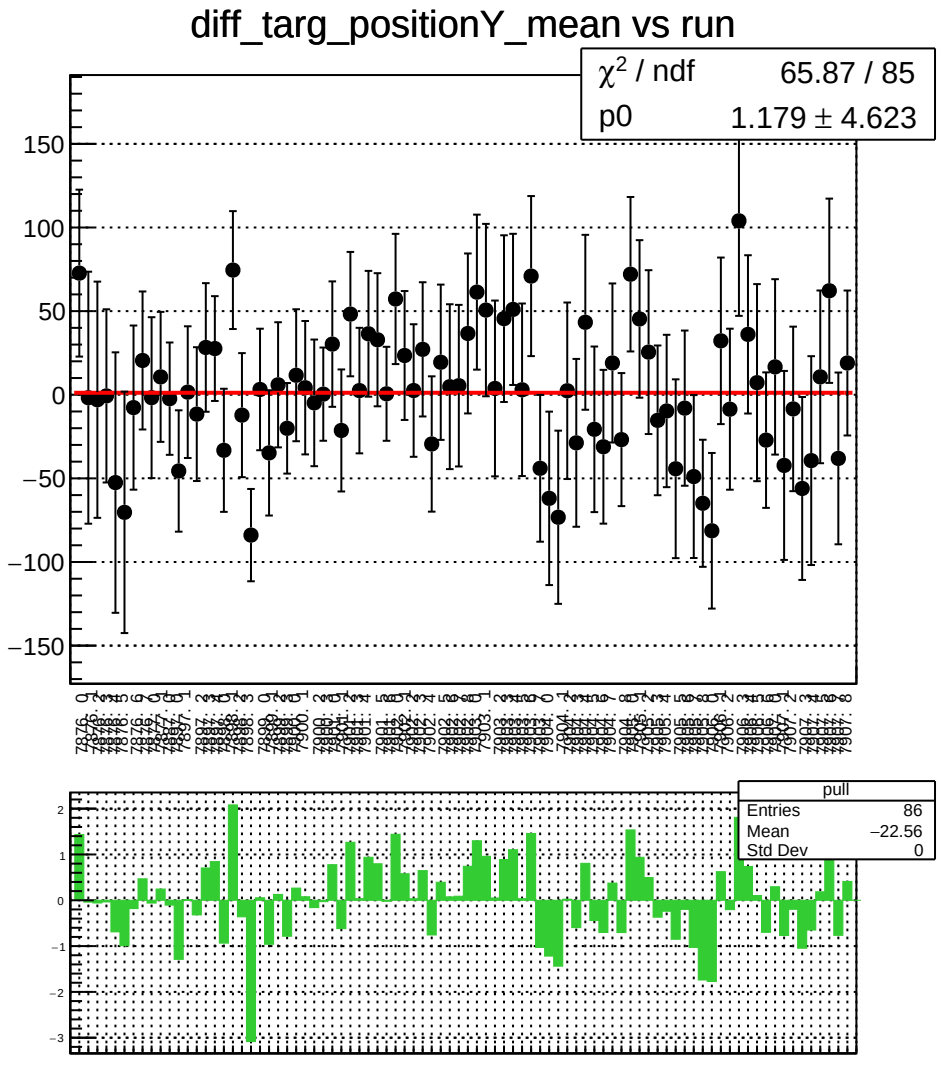

pull1D
Entries 86
Mean 0.002524
Std Dev 0.9389

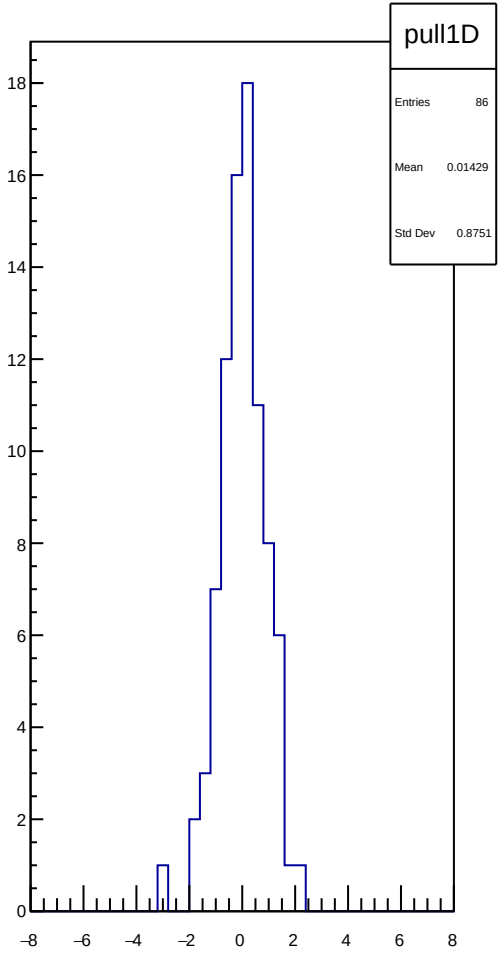

diff_dispE_bpm12X_rms vs run
χ² / ndf 3.341e+04 / 85
p0 11.52 ± 0.008959
16
15
14
13
12
11
10
9

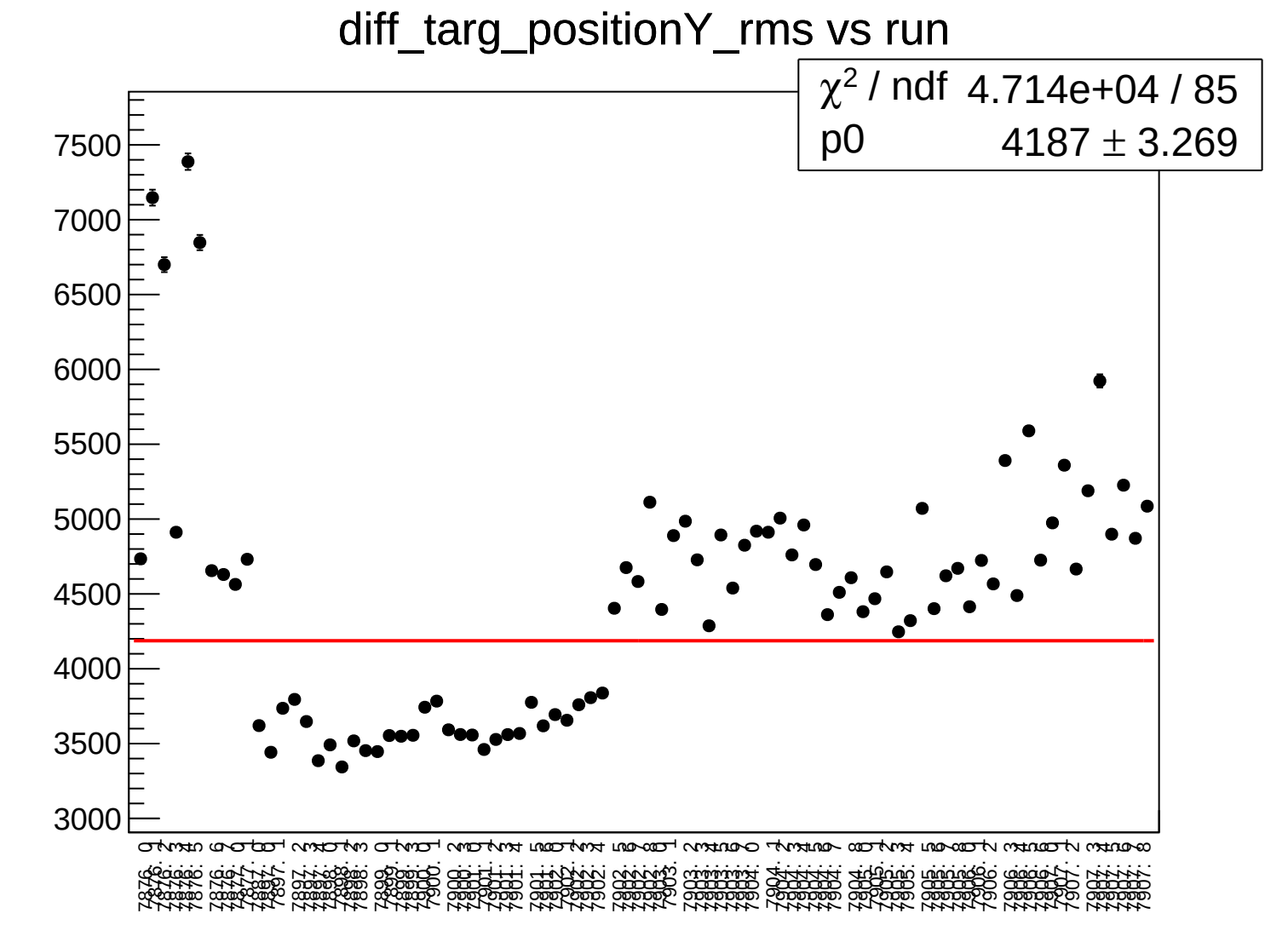

diff_targ_positionX_mean vs run
χ² / ndf 84.09 / 85
p0 −50.69 ± 31.77
1000
500
0
−500
−1000
pull
Entries 86
Mean −29.67
Std Dev 0
3
2
1
0
−1
−2

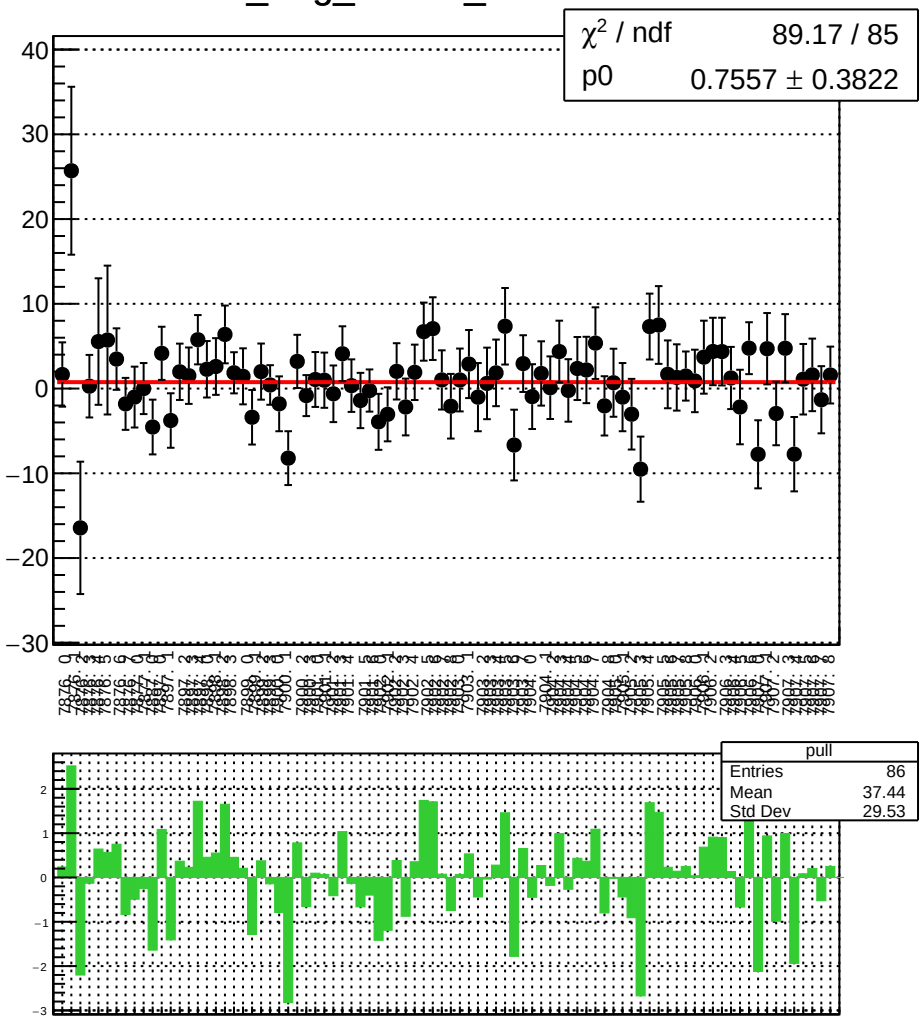

pull1D
Entries 86
Mean 0.01302
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

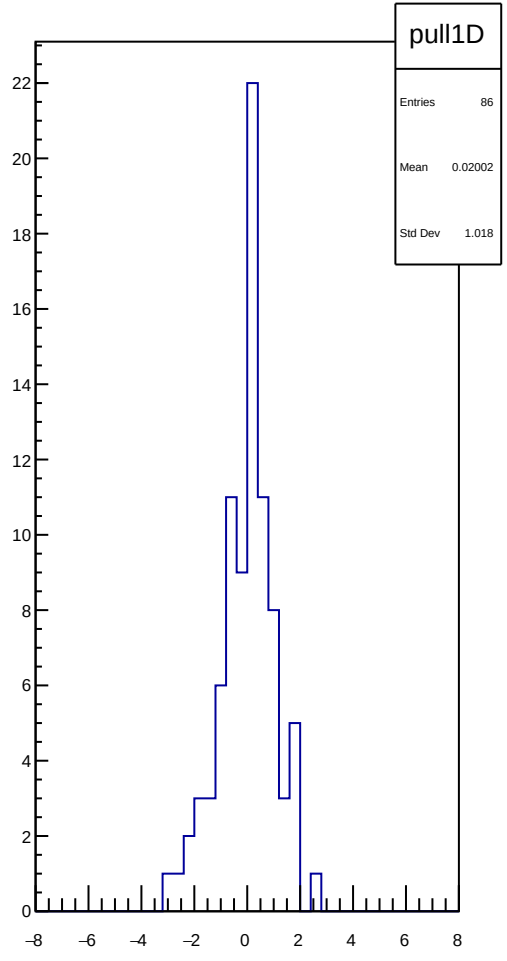

diff_targ_positionX_rms vs run
χ² / ndf 2.027e+04 / 85
p0 2.901e+04 ± 22.46
38000
36000
34000
32000
30000
28000
26000
24000

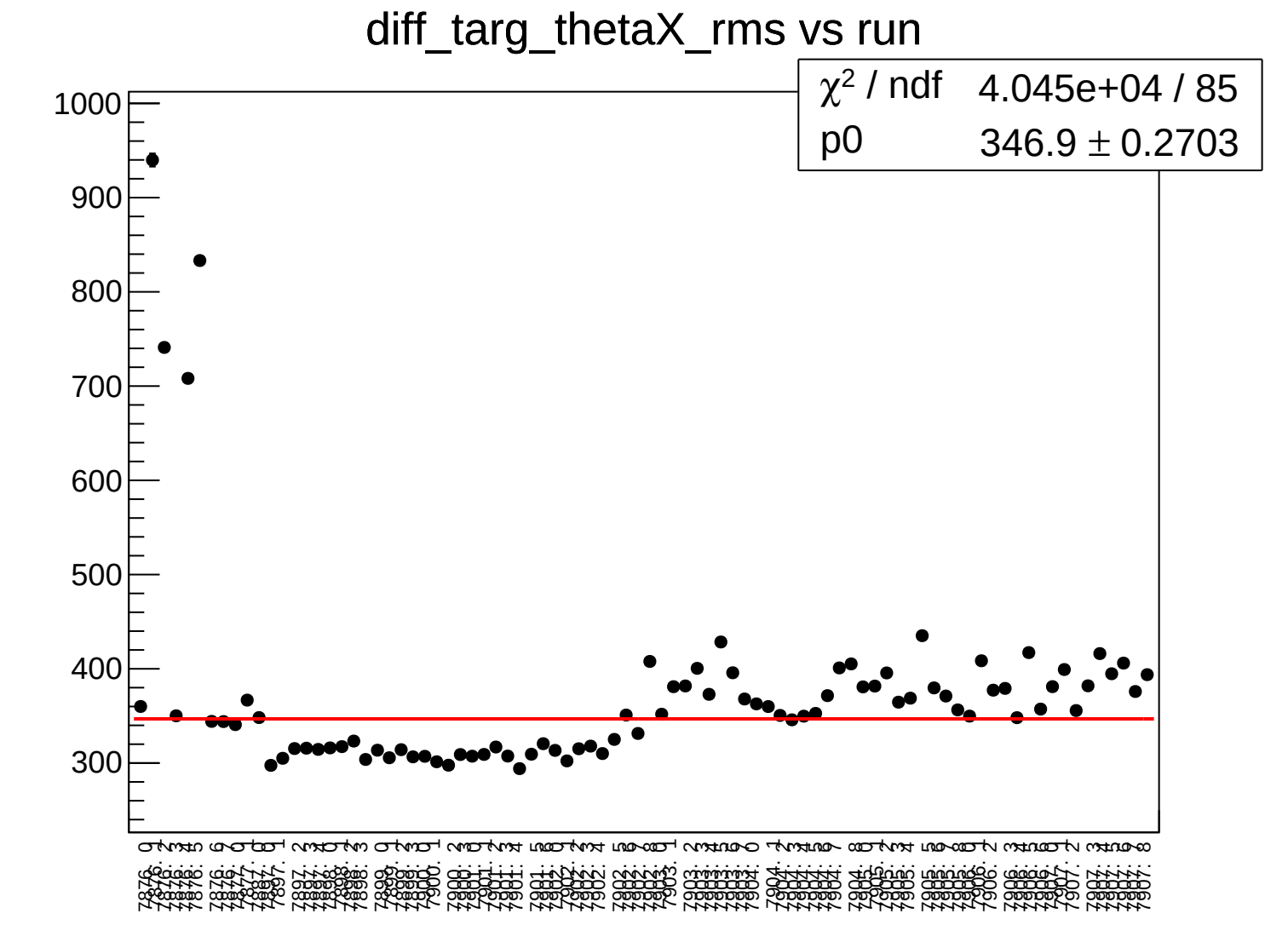

diff_targ_positionY_mean vs run
χ² / ndf 65.87 / 85
p0 1.179 ± 4.623
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −22.56
Std Dev 0
2
1
0
−1
−2
−3

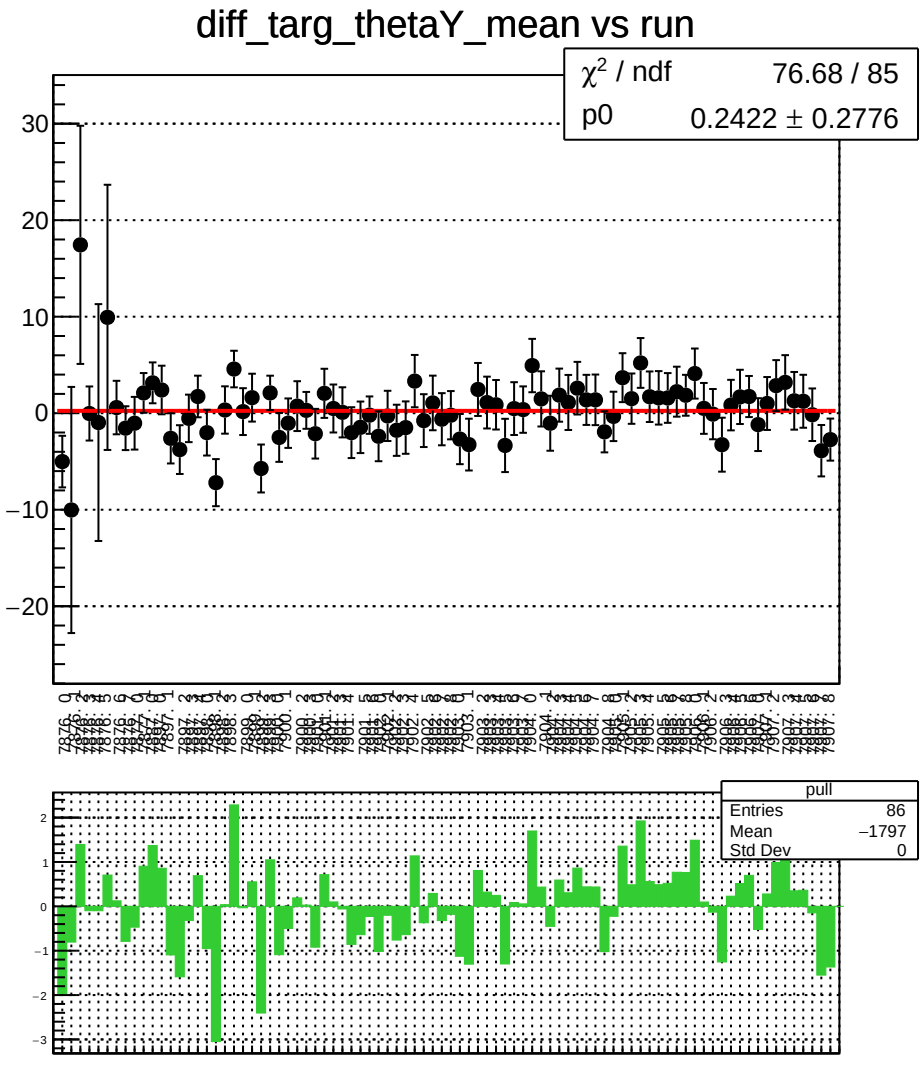

pull1D
Entries 86
Mean 0.01429
Std Dev 0.8751
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

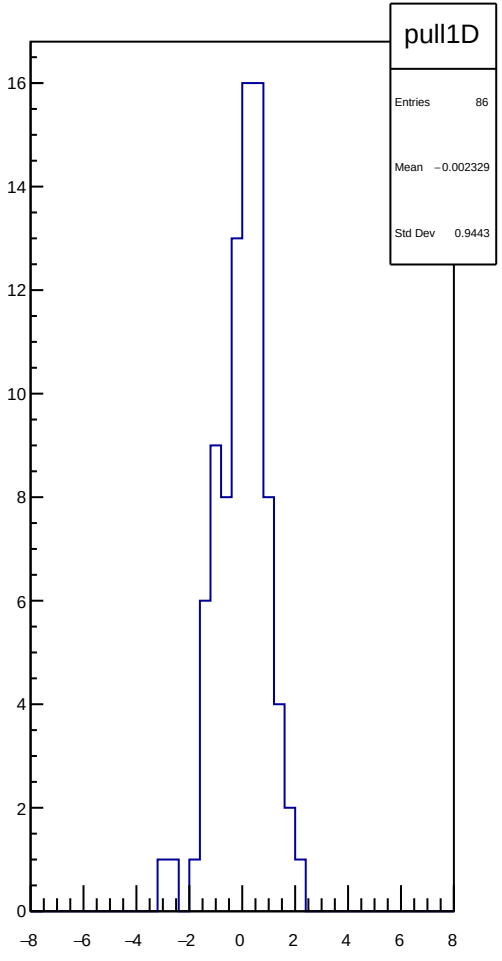

diff_targ_positionY_rms vs run
χ² / ndf 4.714e+04 / 85
p0 4187 ± 3.269
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000

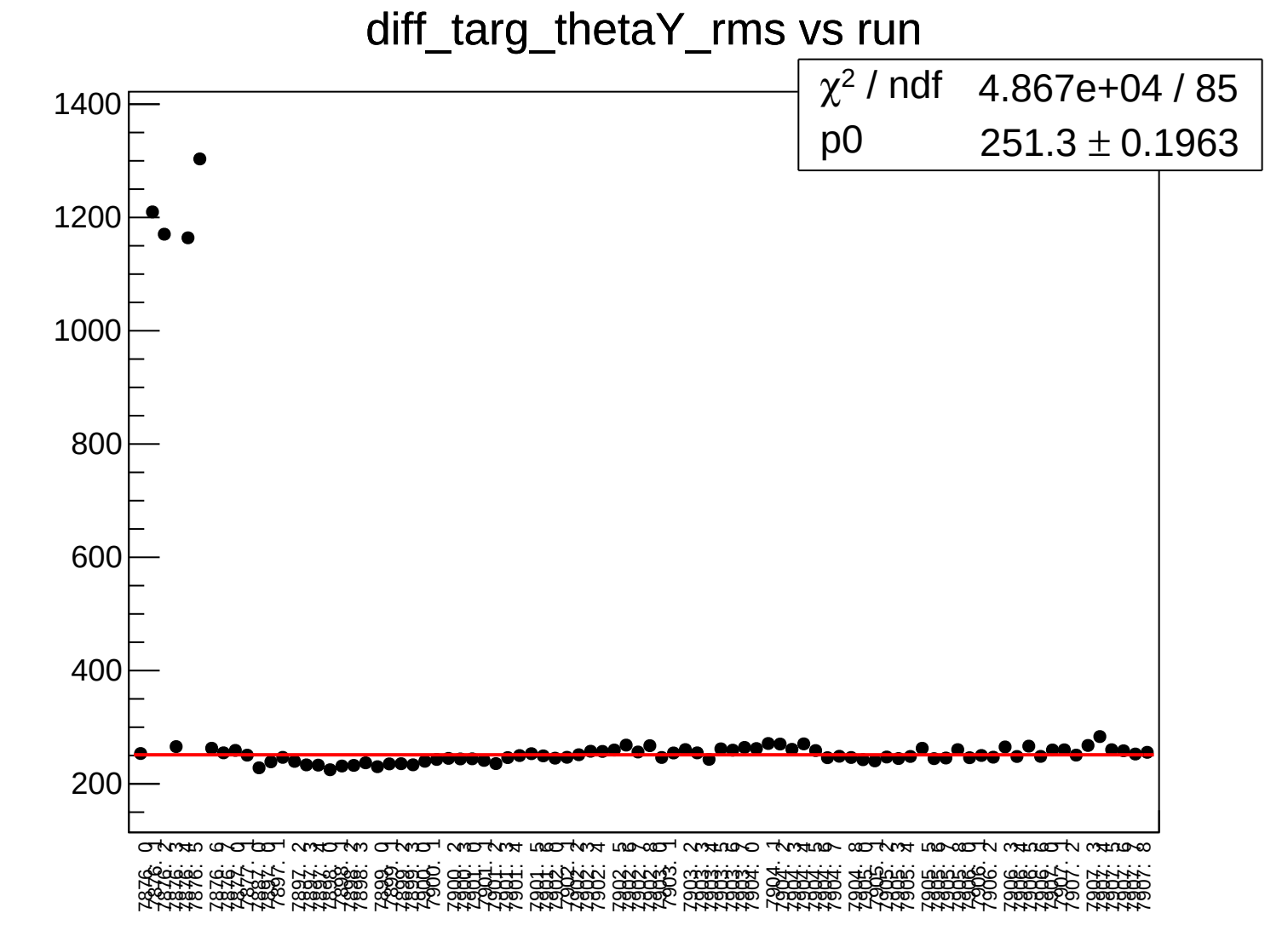

diff_targ_thetaX_mean vs run
χ^2 / ndf 89.17 / 85
p0 0.7557 ± 0.3822
pull
Entries 86
Mean 37.44
Std Dev 29.53

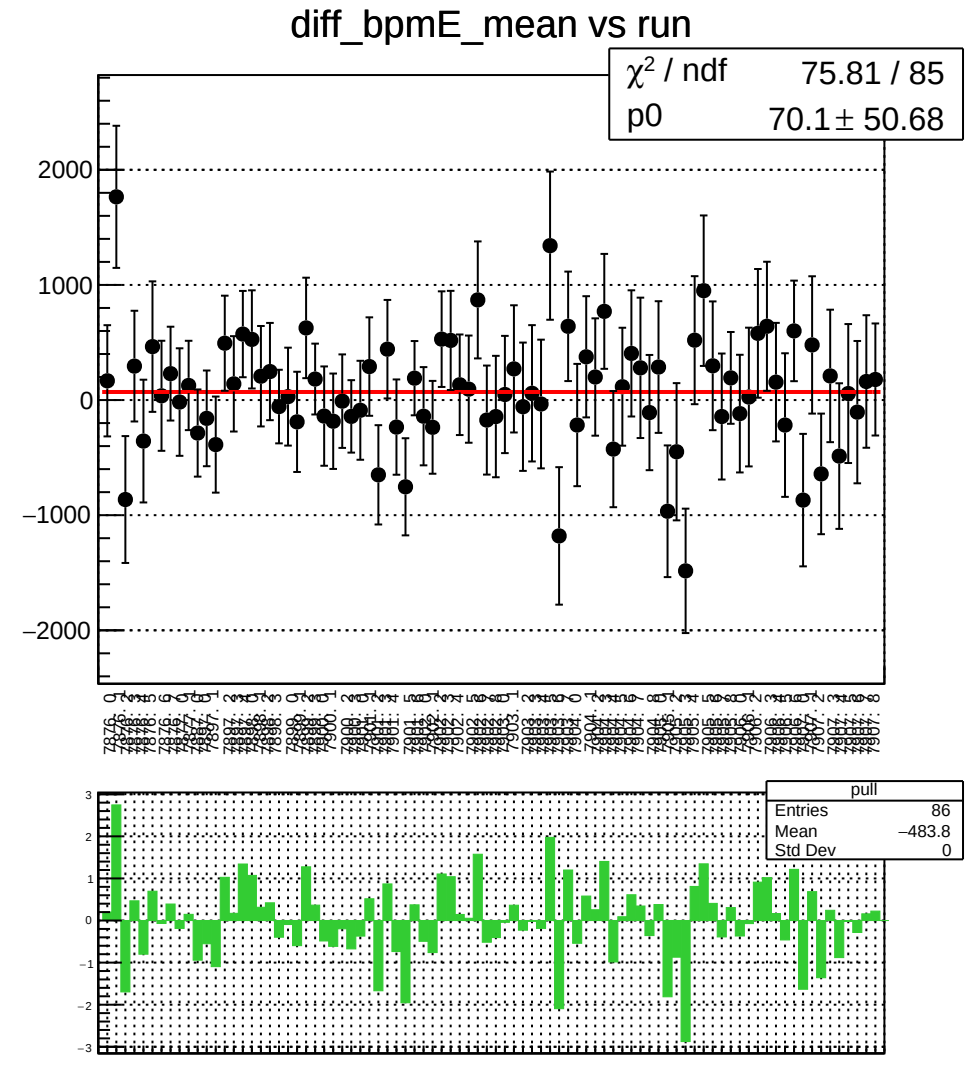

pull1D
Entries 86
Mean 0.02002
Std Dev 1.018

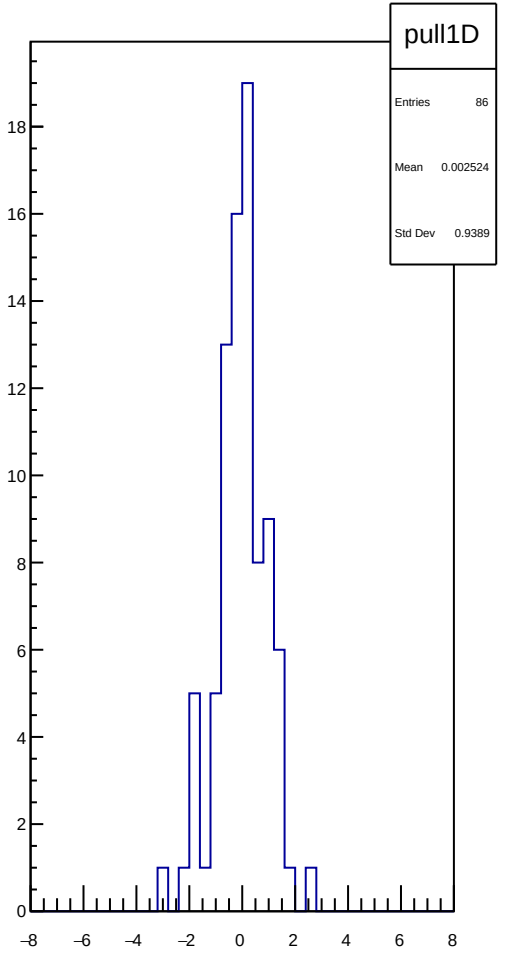

diff_targ_thetaX_rms vs run
χ^2 / ndf 4.045e+04 / 85
p0 346.9 ± 0.2703
1000
900
800
700
600
500
400
300

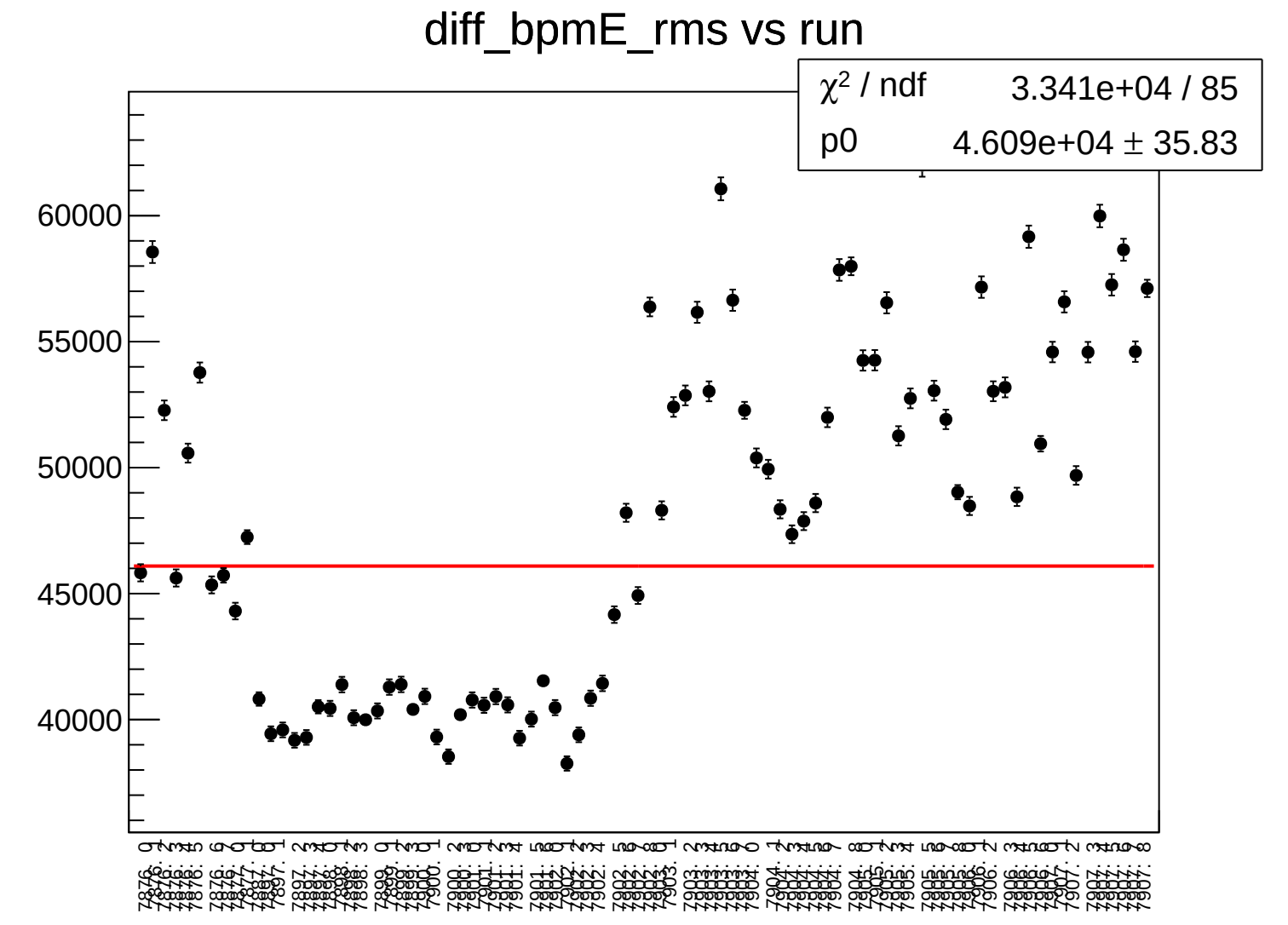

diff_targ_thetaY_mean vs run
χ² / ndf 76.68 / 85
p0 0.2422 ± 0.2776
pull
Entries 86
Mean −1797
Std Dev 0

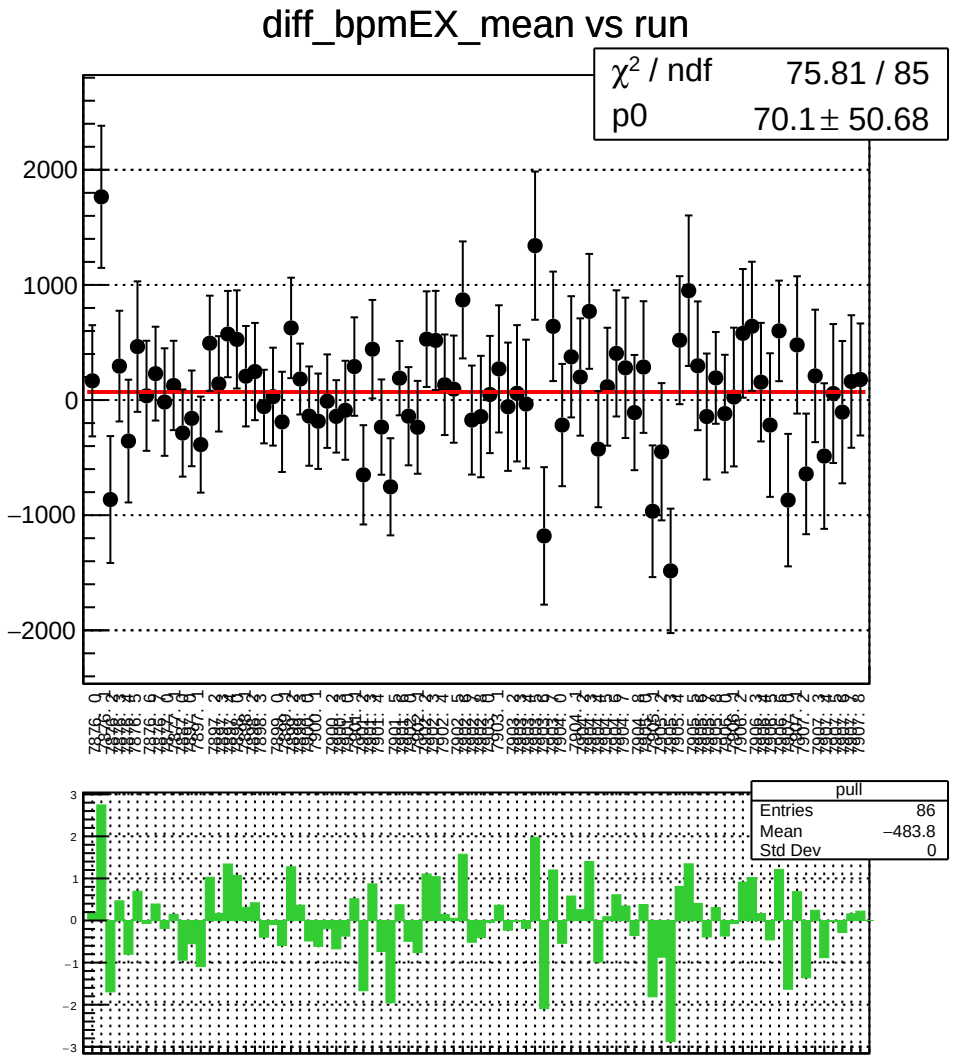

pull1D
Entries 86
Mean −0.002329
Std Dev 0.9443

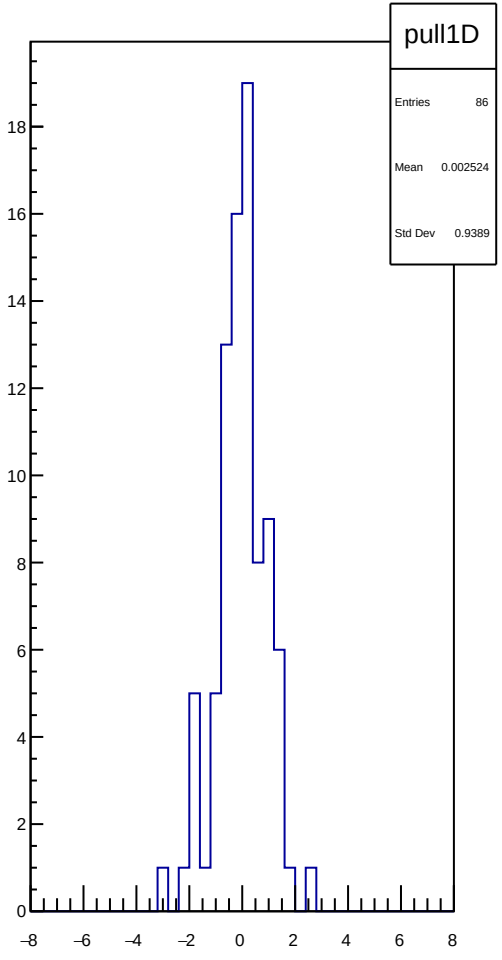

diff_targ_thetaY_rms vs run
χ² / ndf 4.867e+04 / 85
p0 251.3 ± 0.1963
1400
1200
1000
800
600
400
200

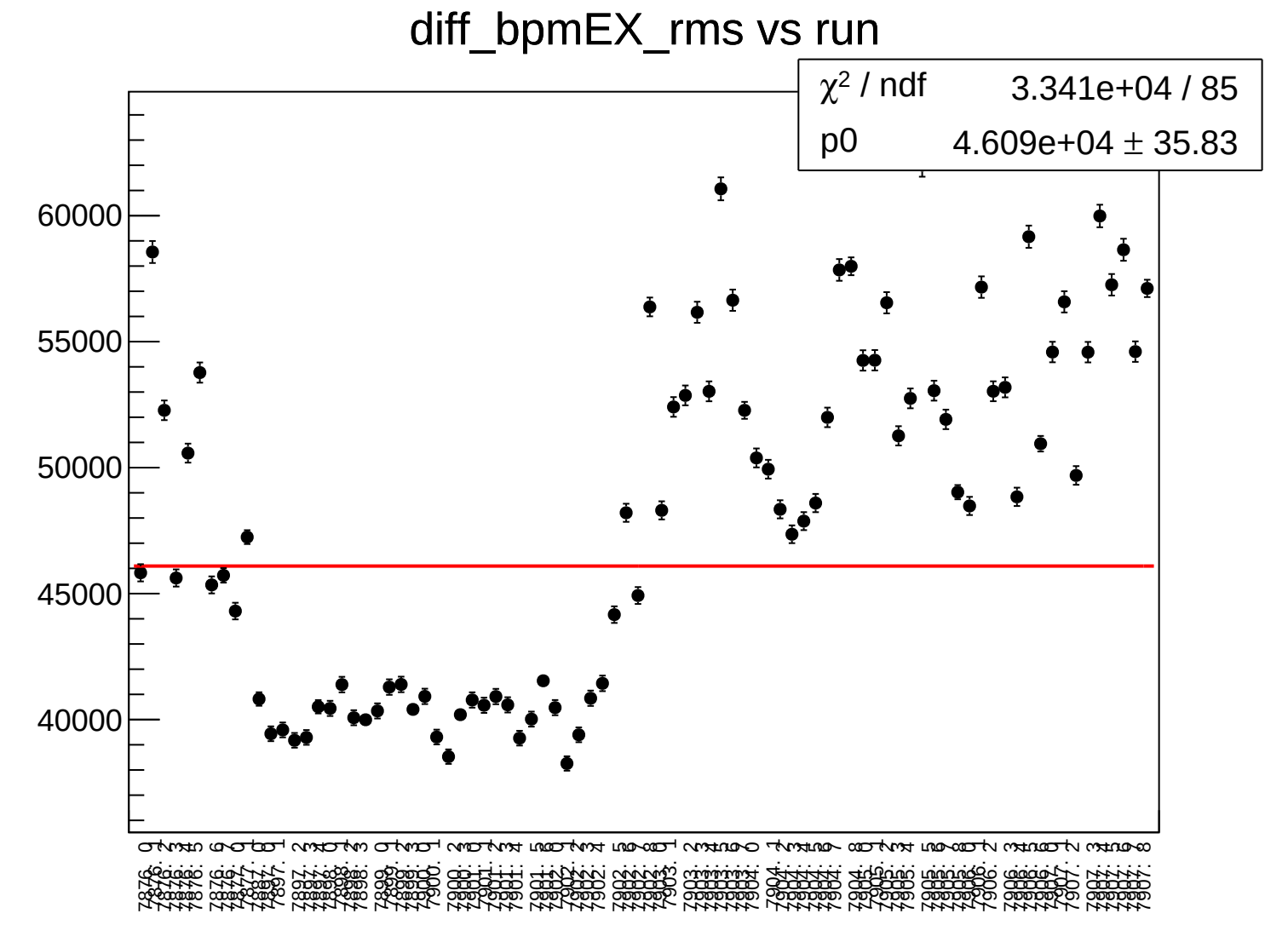

diff_bpmE_mean vs run
χ² / ndf 75.81 / 85
p0 70.1 ± 50.68
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −483.8
Std Dev 0
3
2
1
0
−1
−2
−3

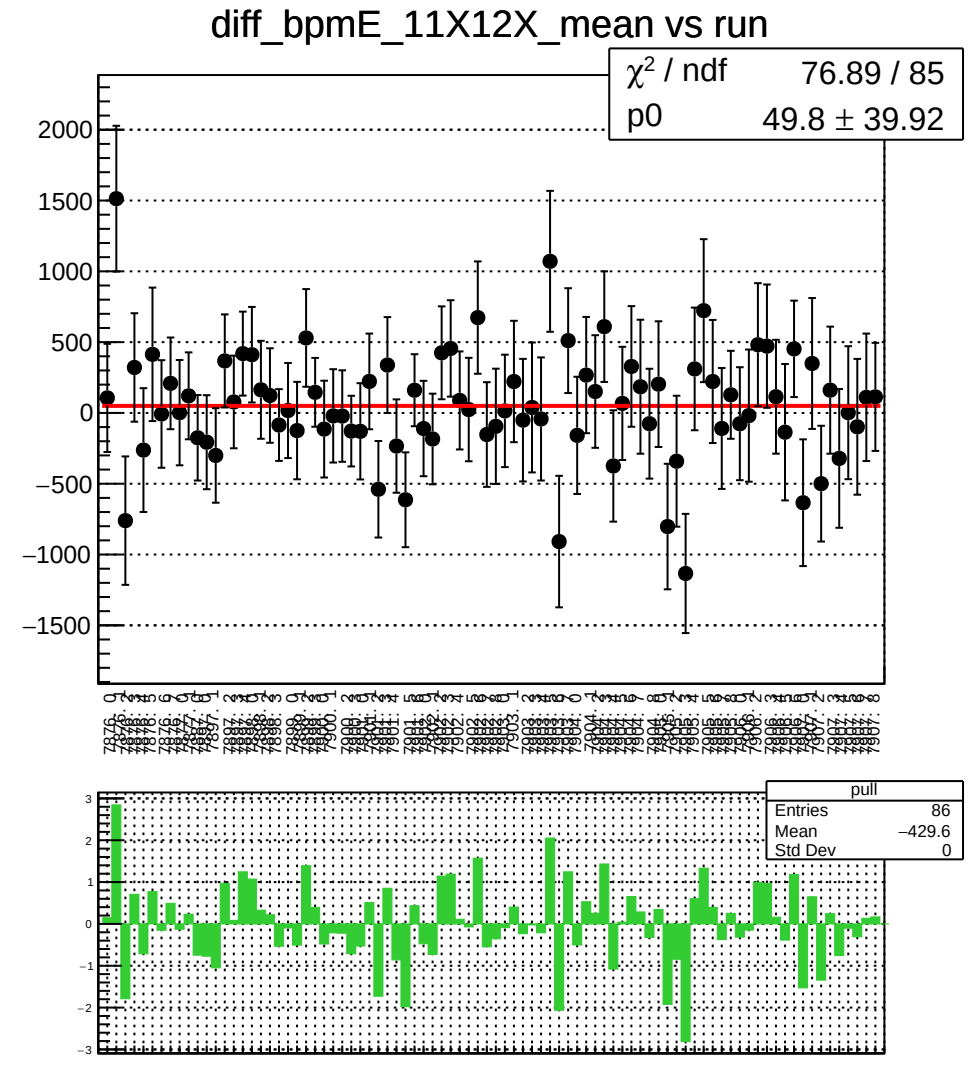

pull1D
Entries 86
Mean 0.002524
Std Dev 0.9389
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

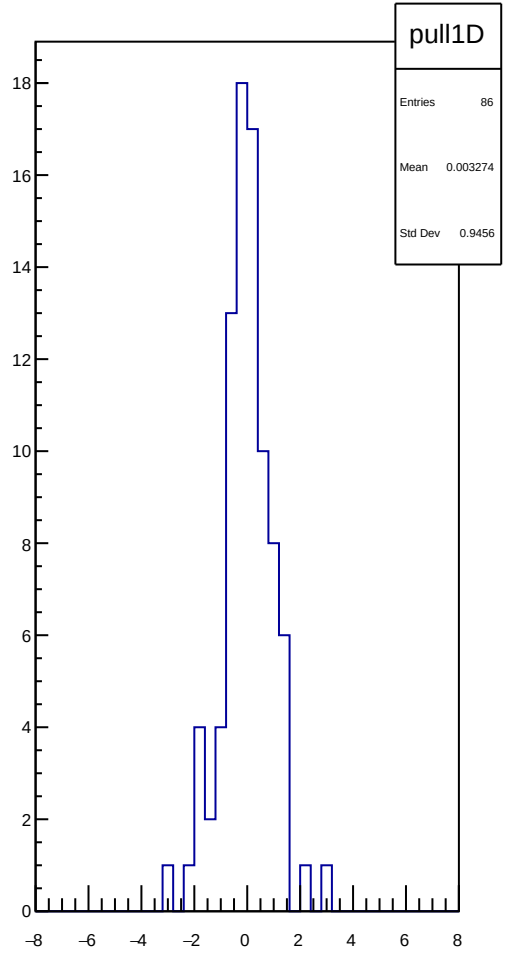

diff_bpmE_rms vs run
χ² / ndf 3.341e+04 / 85
p0 4.609e+04 ± 35.83
60000
55000
50000
45000
40000

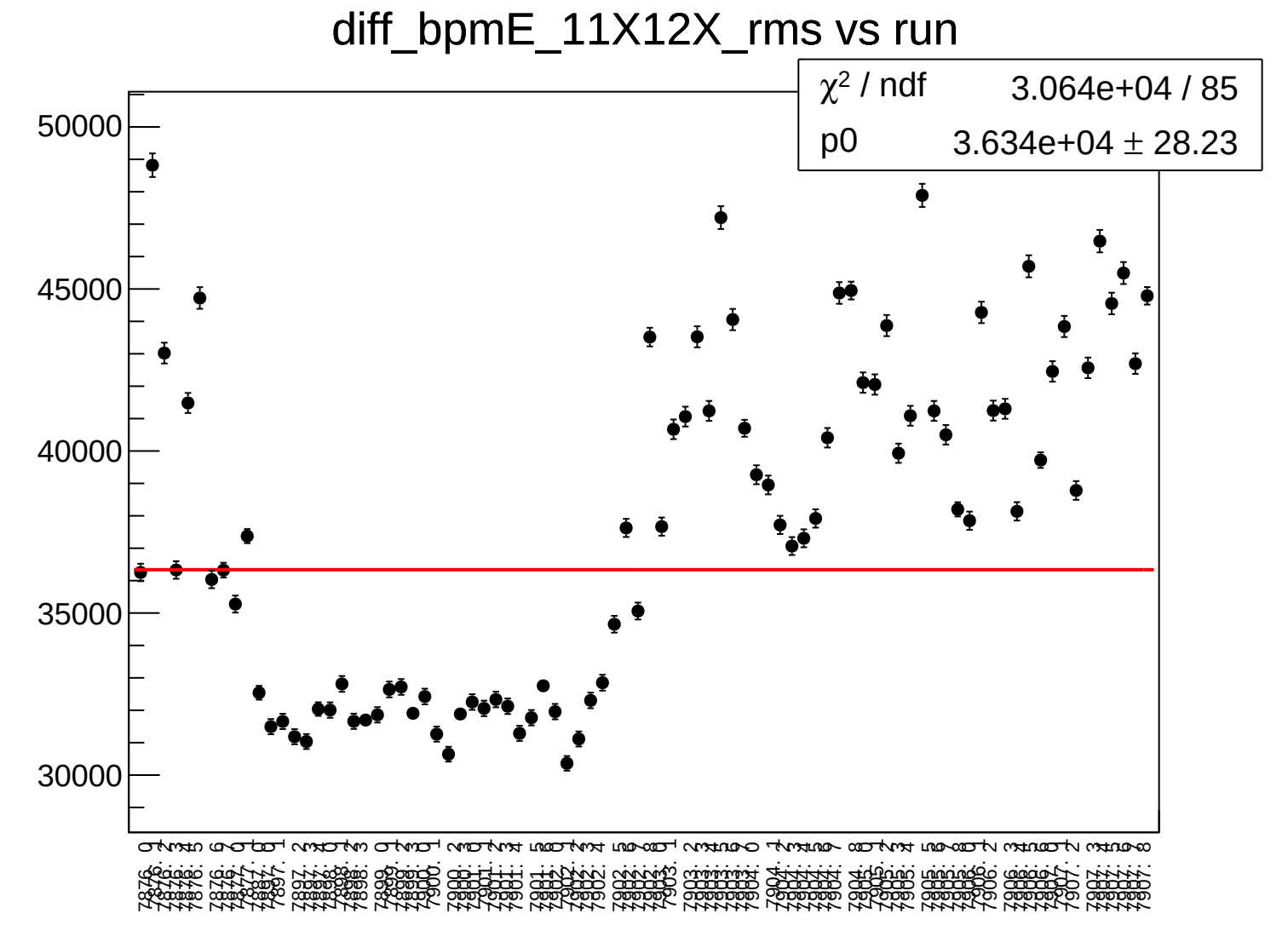

diff_bpmEX_mean vs run
χ² / ndf 75.81 / 85
p0 70.1 ± 50.68
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −483.8
Std Dev 0
3
2
1
0
−1
−2
−3

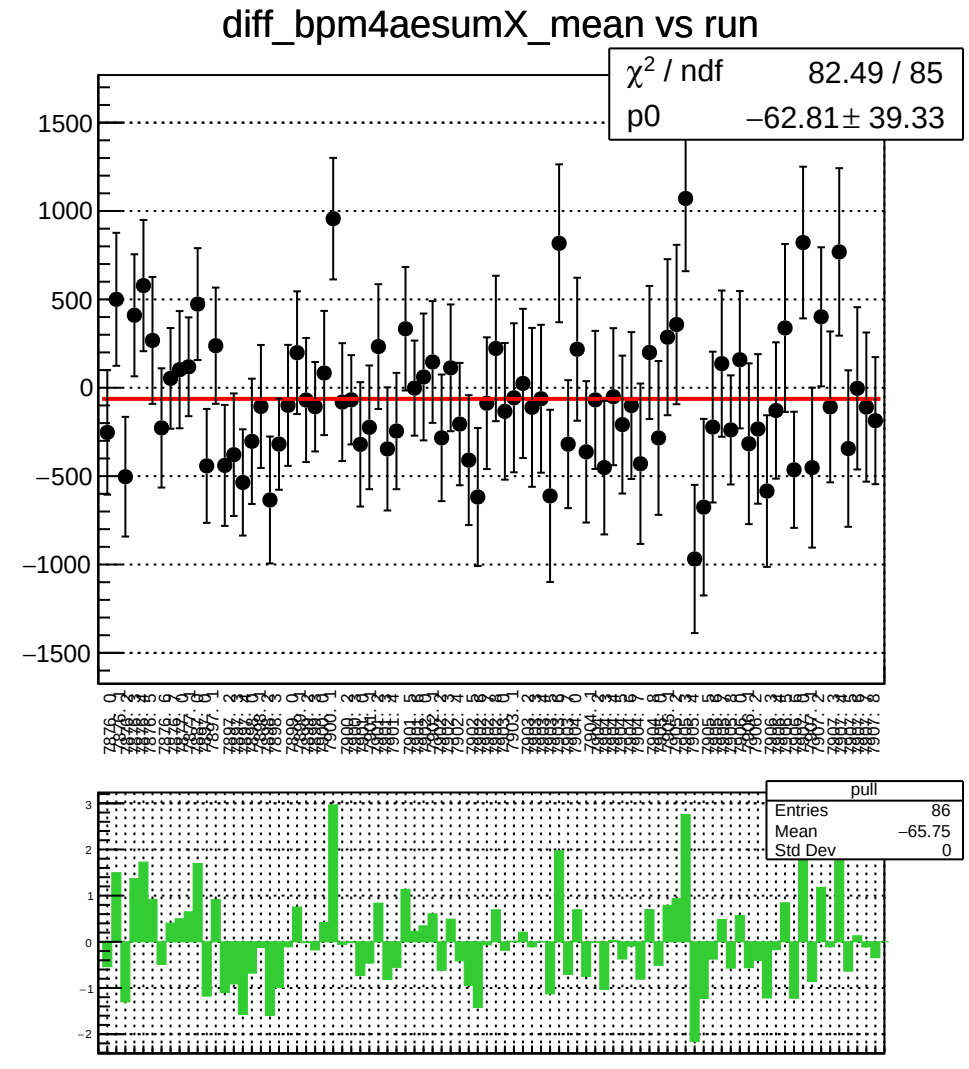

pull1D
Entries 86
Mean 0.002524
Std Dev 0.9389
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

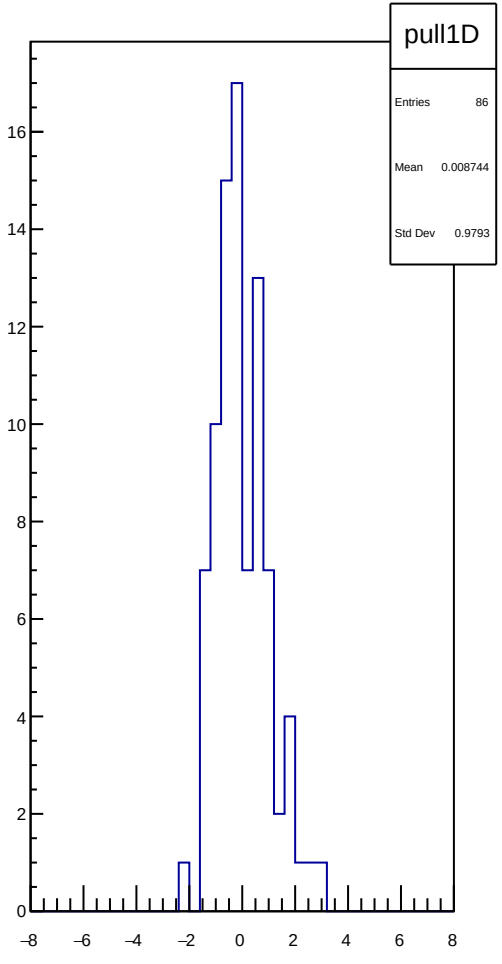

diff_bpmEX_rms vs run
χ² / ndf 3.341e+04 / 85
p0 4.609e+04 ± 35.83
60000
55000
50000
45000
40000

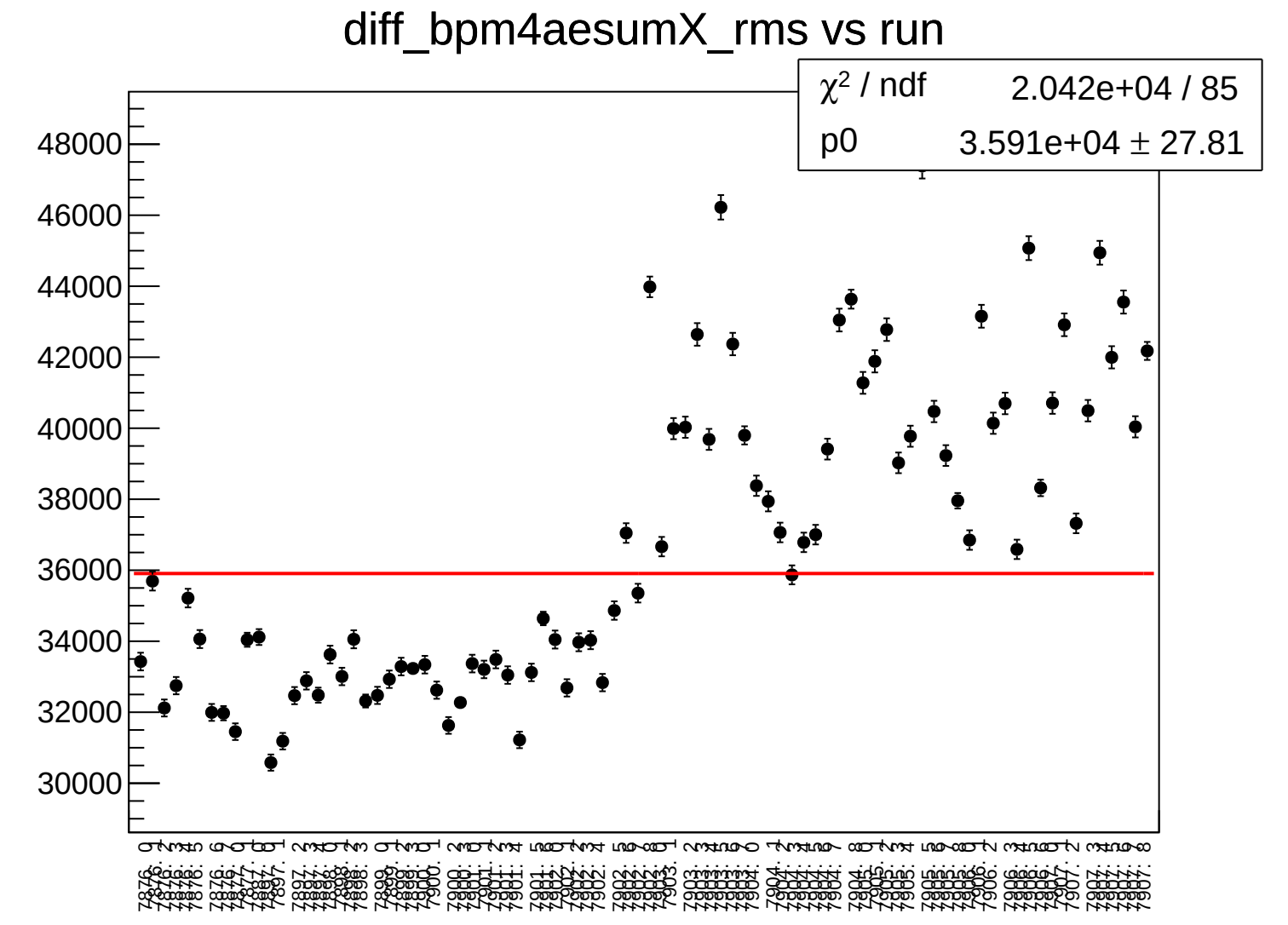

diff_bpmE_11X12X_mean vs run
χ² / ndf 76.89 / 85
p0 49.8 ± 39.92
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean −429.6
Std Dev 0
3
2
1
0
−1
−2
−3

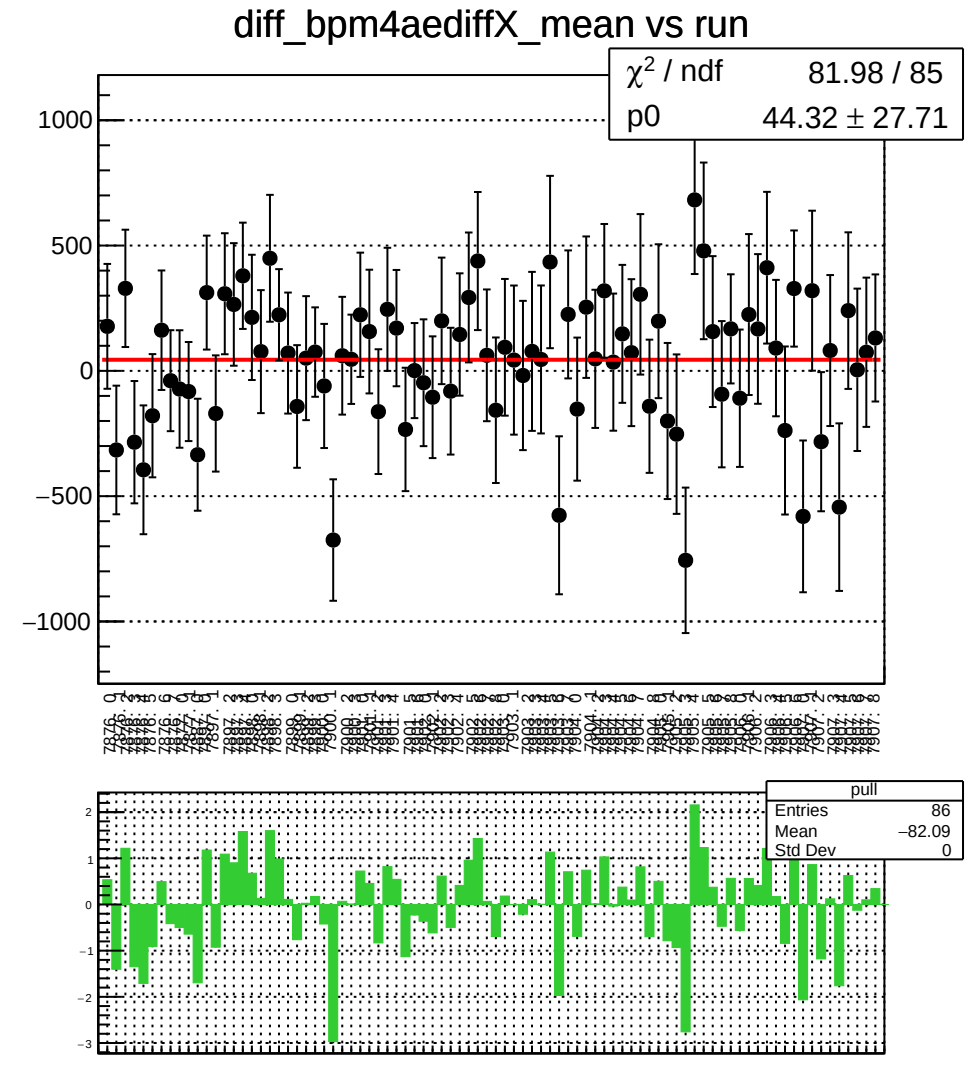

pull1D
Entries 86
Mean 0.003274
Std Dev 0.9456
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

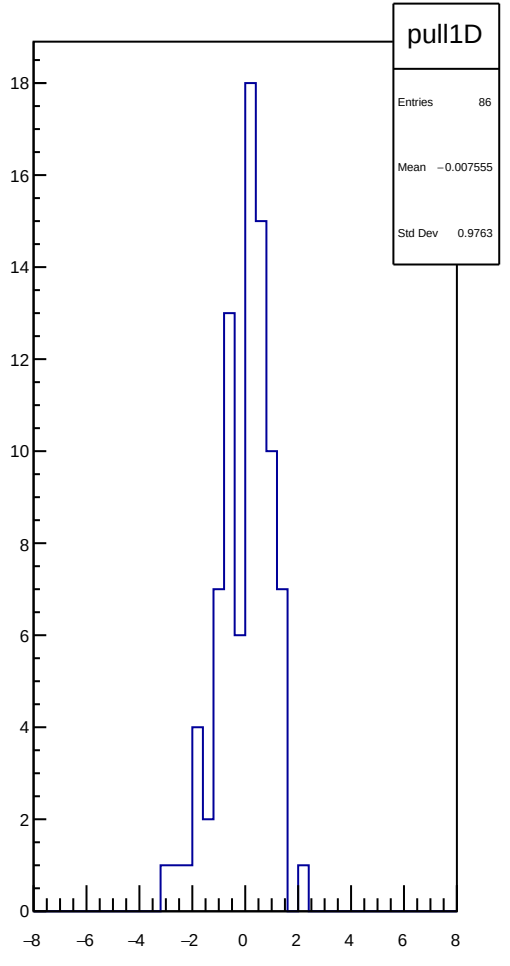

diff_bpmE_11X12X_rms vs run
χ² / ndf 3.064e+04 / 85
p0 3.634e+04 ± 28.23
50000
45000
40000
35000
30000

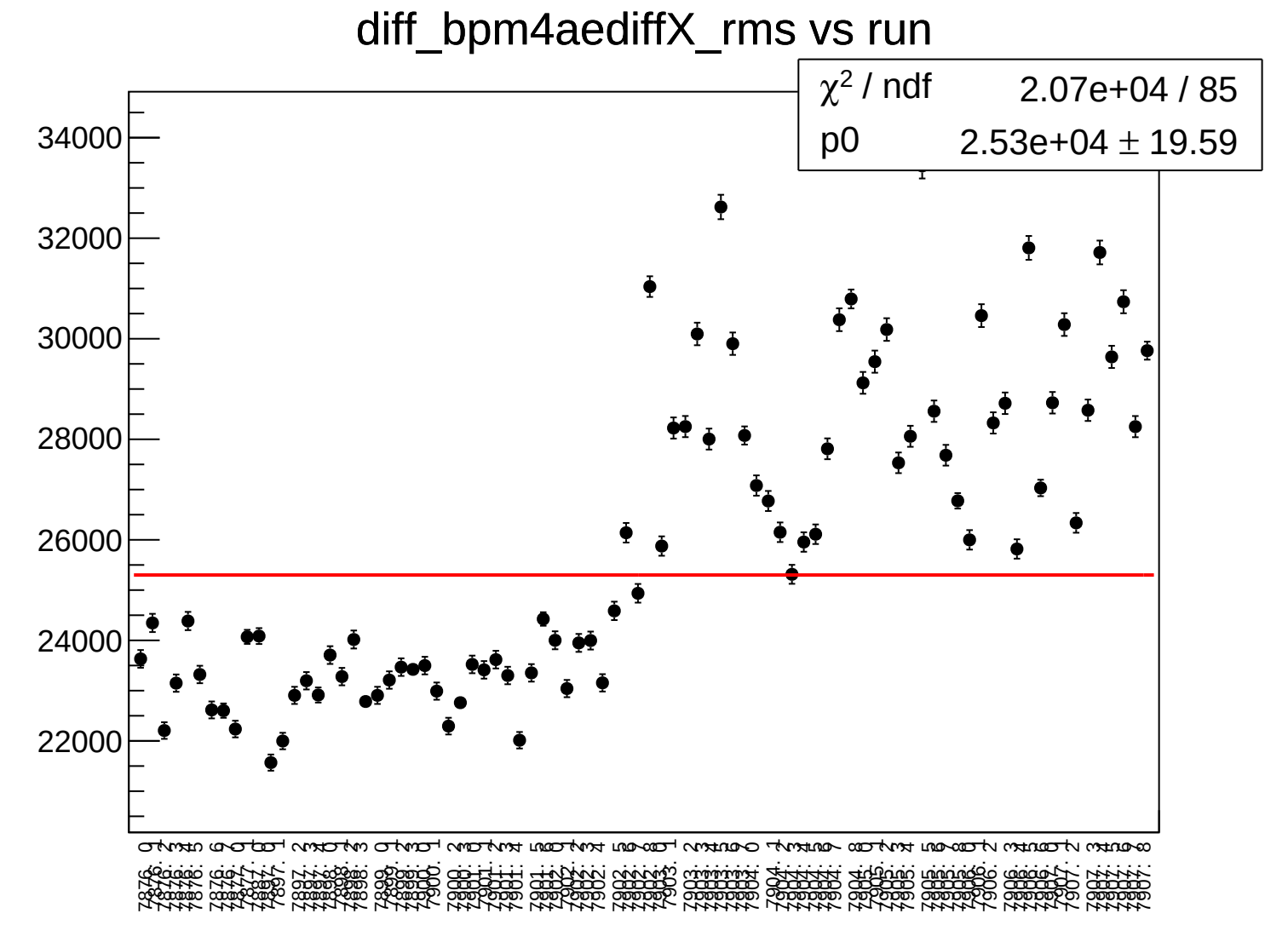

diff_bpm4aesumX_mean vs run
χ² / ndf 82.49 / 85
p0 −62.81 ± 39.33
pull
Entries 86
Mean −65.75
Std Dev 0

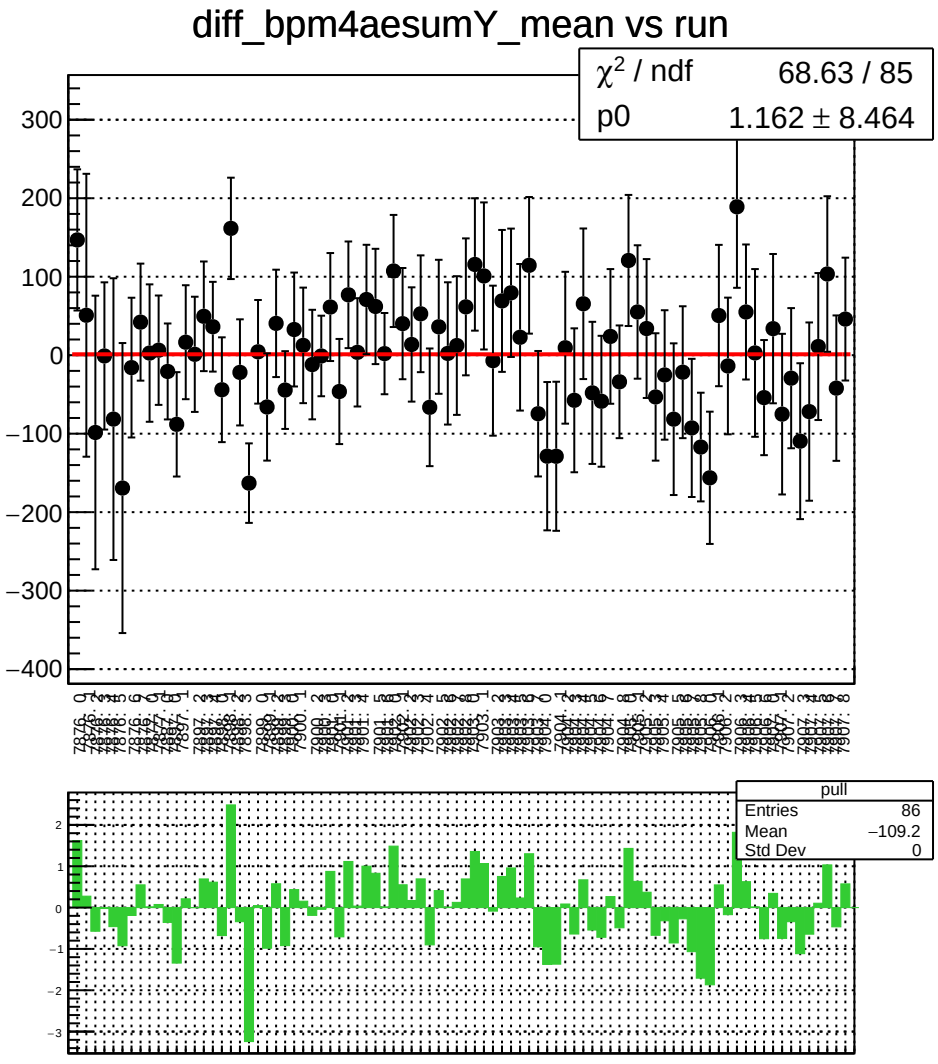

pull1D
Entries 86
Mean 0.008744
Std Dev 0.9793

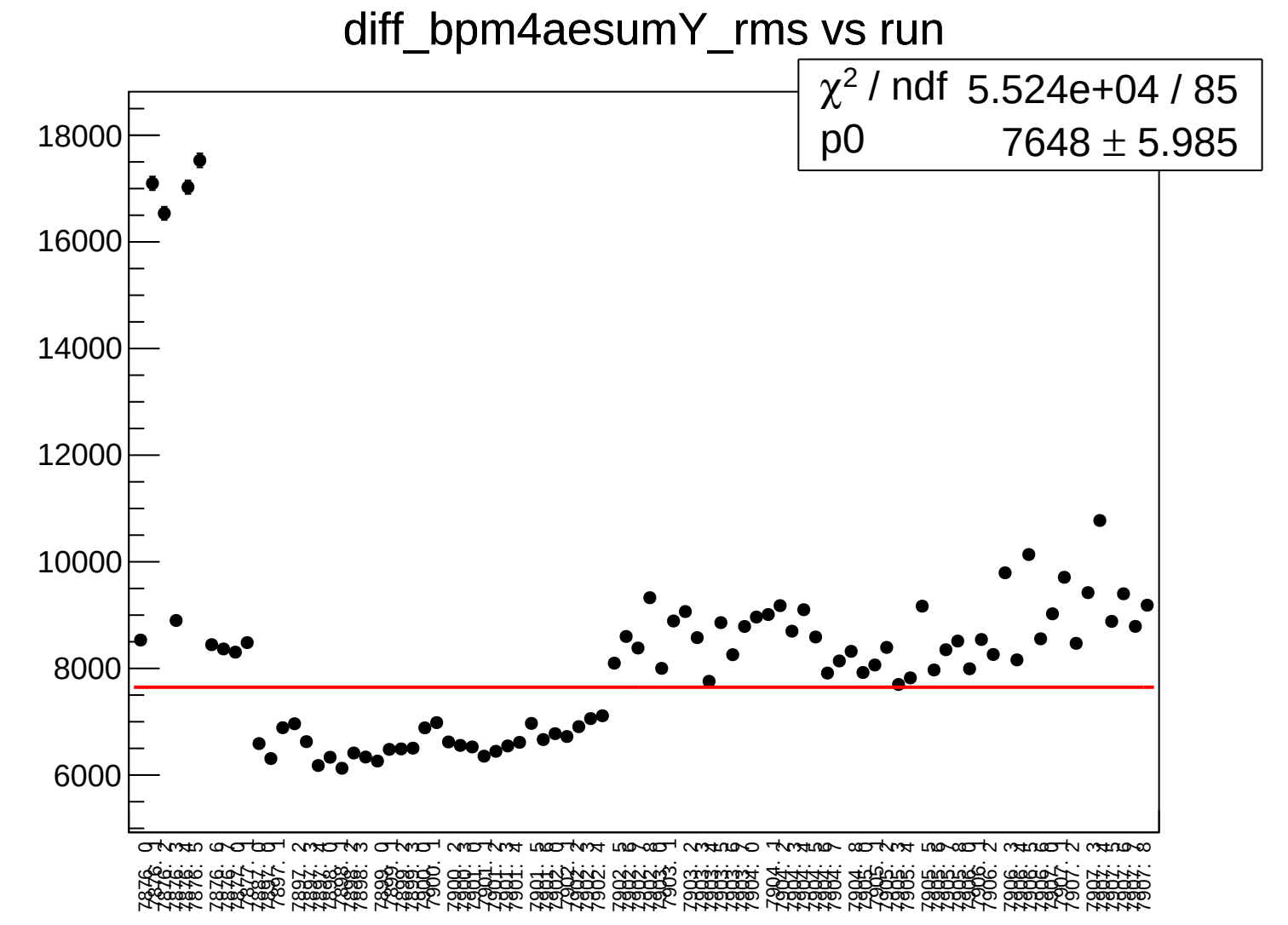

diff_bpm4aesumX_rms vs run
χ² / ndf 2.042e+04 / 85
p0 3.591e+04 ± 27.81
48000
46000
44000
42000
40000
38000
36000
34000
32000
30000

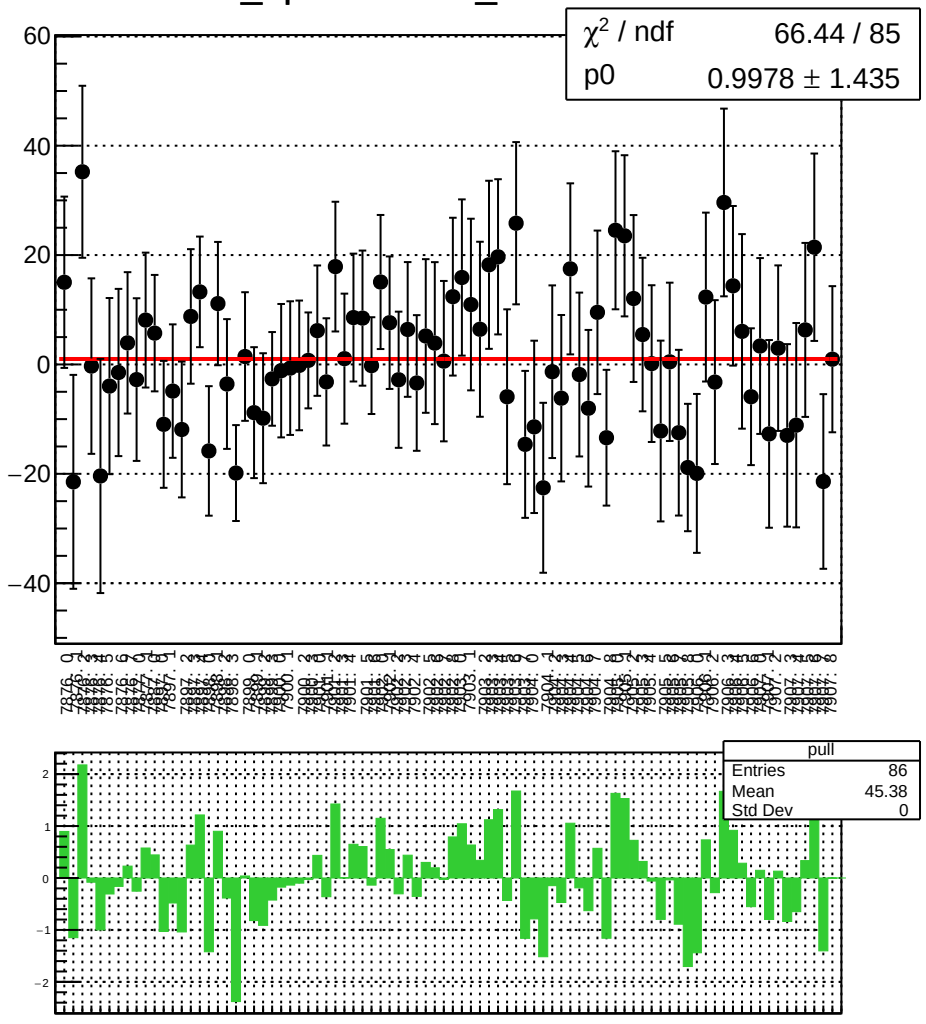

diff_bpm4aediffX_mean vs run
χ² / ndf 81.98 / 85
p0 44.32 ± 27.71
1000
500
0
−500
−1000
pull
Entries 86
Mean −82.09
Std Dev 0
2
1
0
−1
−2
−3

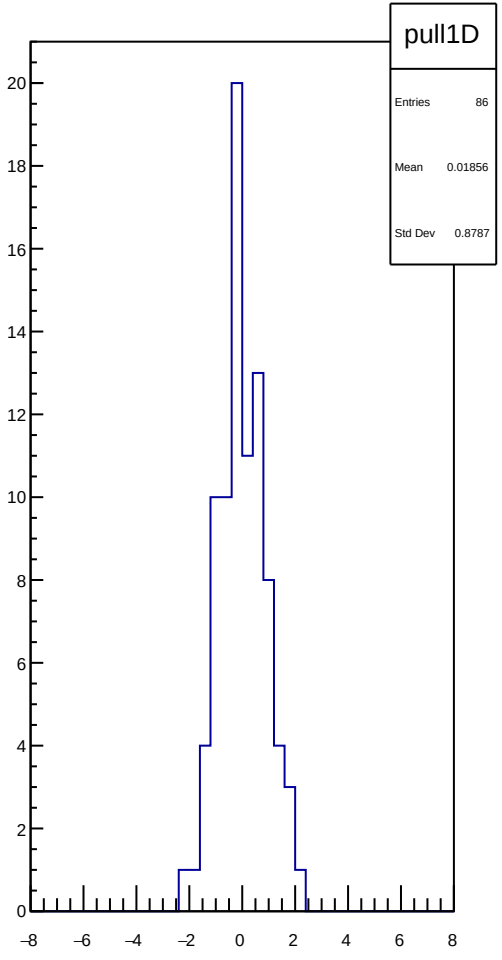

pull1D
Entries 86
Mean −0.007555
Std Dev 0.9763
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

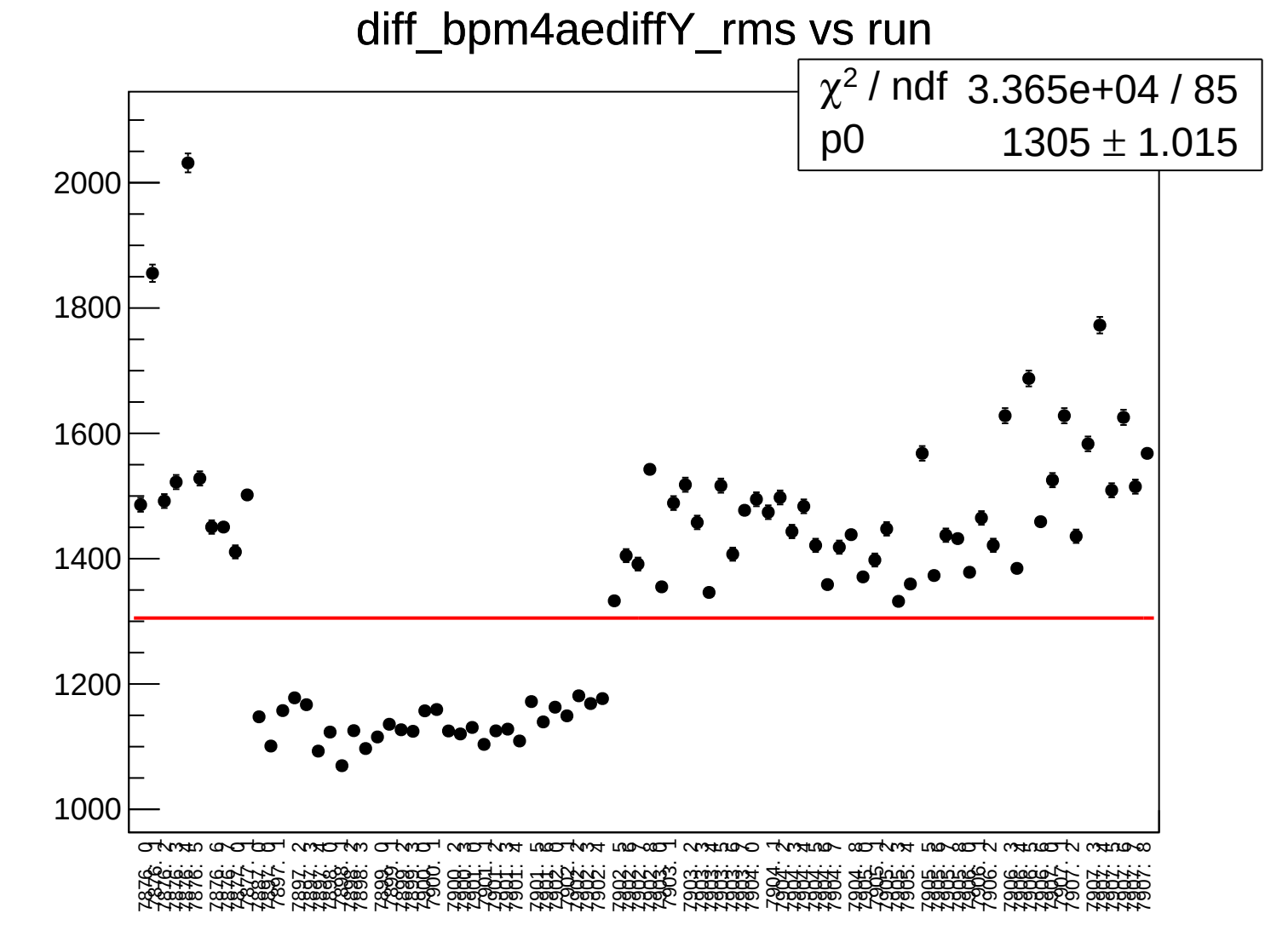

diff_bpm4aediffX_rms vs run
χ² / ndf 2.07e+04 / 85
p0 2.53e+04 ± 19.59
34000
32000
30000
28000
26000
24000
22000

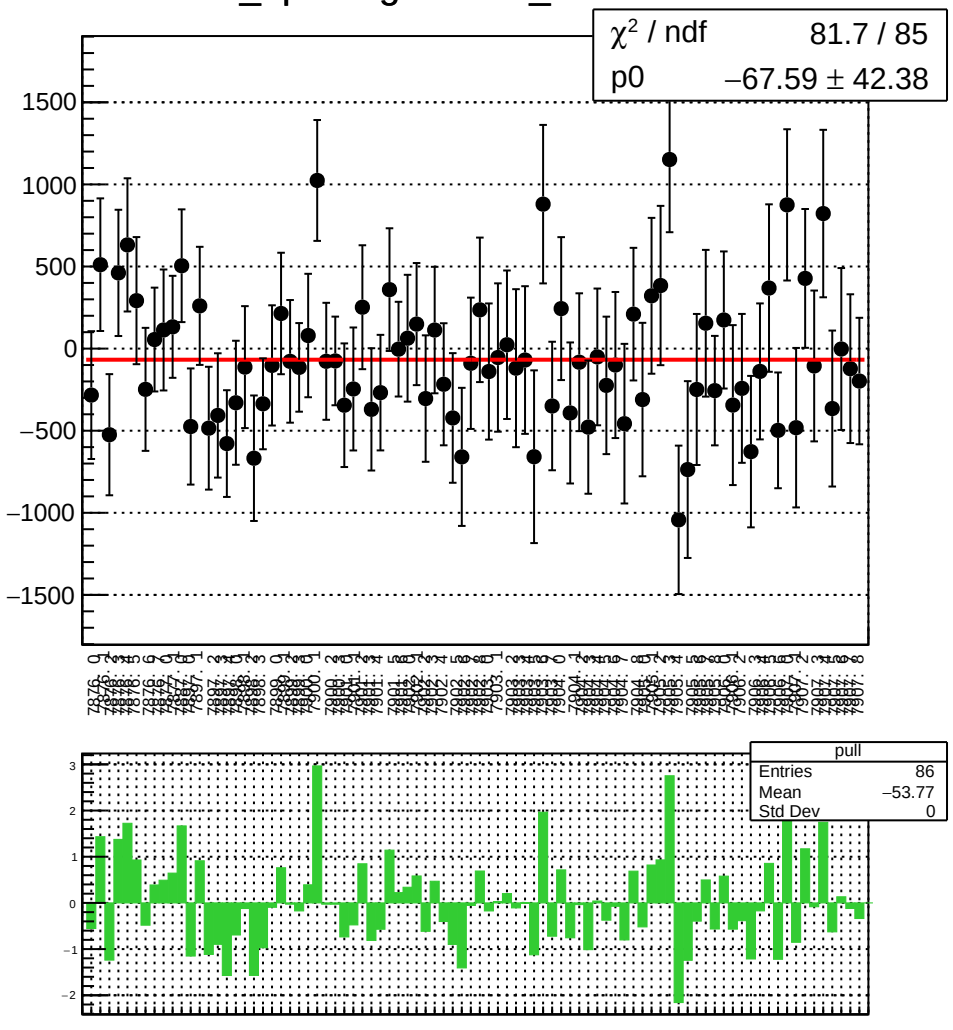

diff_bpm4aesumY_mean vs run
χ² / ndf 68.63 / 85
p0 1.162 ± 8.464
pull
Entries 86
Mean −109.2
Std Dev 0
pull1D
Entries 86
Mean 0.01087
Std Dev 0.8932

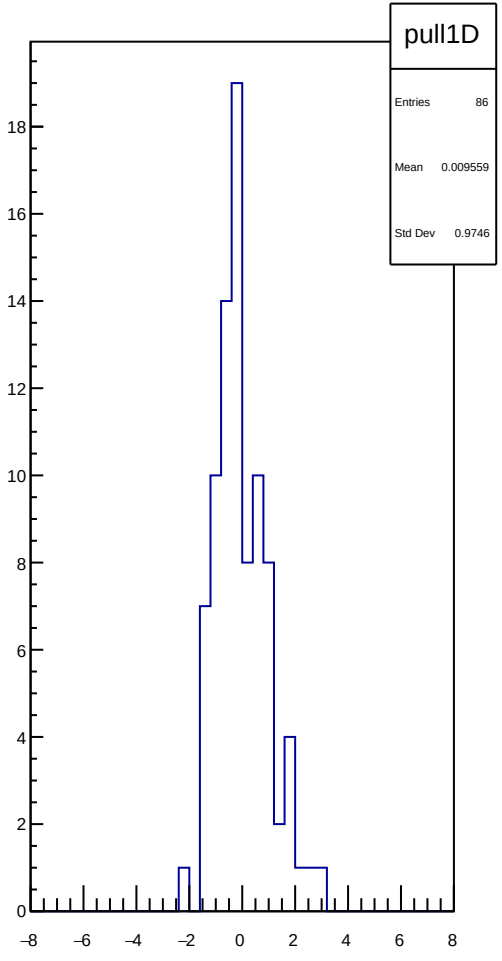

diff_bpm4aesumY_rms vs run
χ^2 / ndf 5.524e+04 / 85
p0 7648 ± 5.985
18000
16000
14000
12000
10000
8000
6000

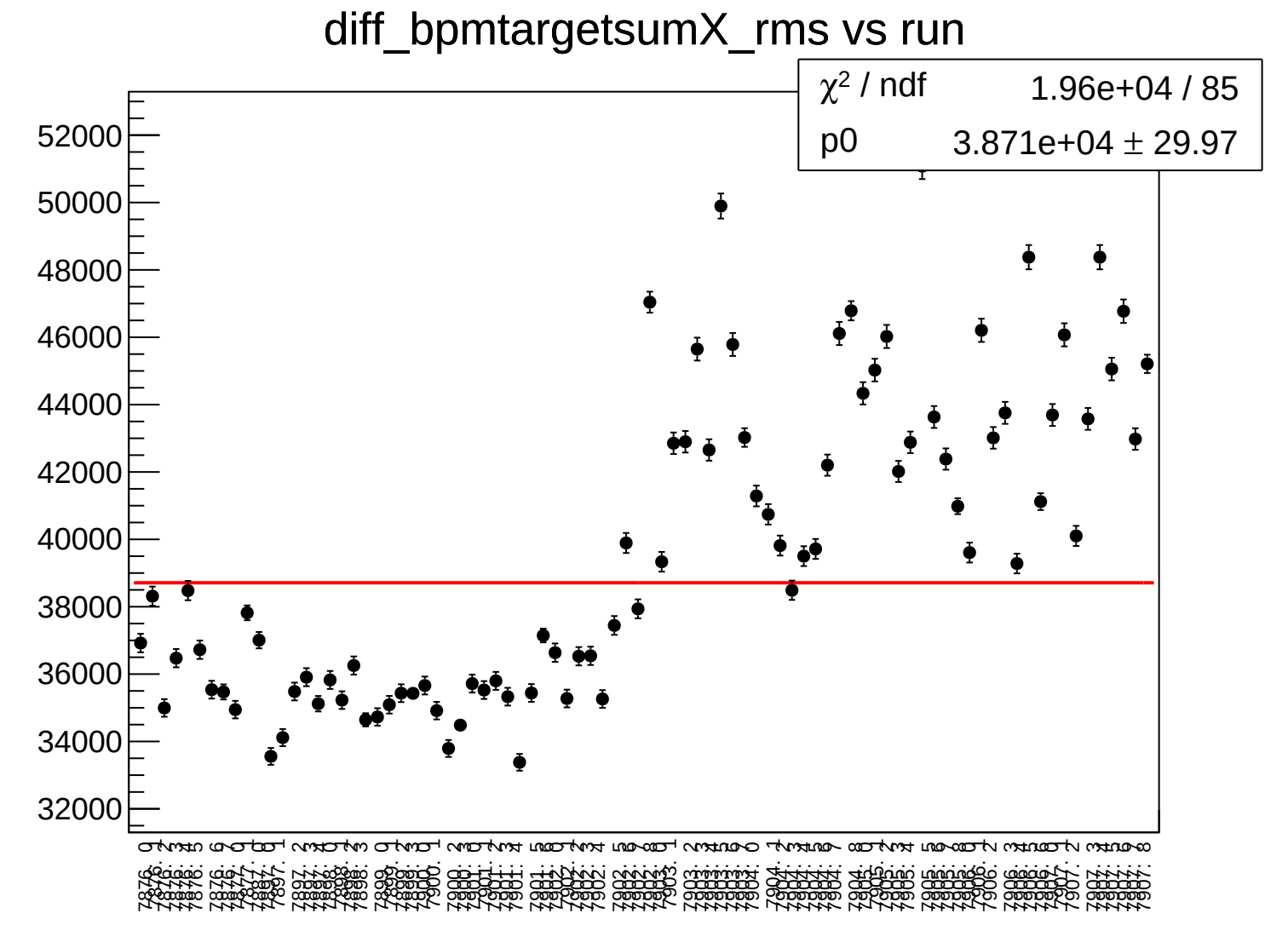

diff_bpm4aediffY_mean vs run
χ² / ndf 66.44 / 85
p0 0.9978 ± 1.435
pull
Entries 86
Mean 45.38
Std Dev 0

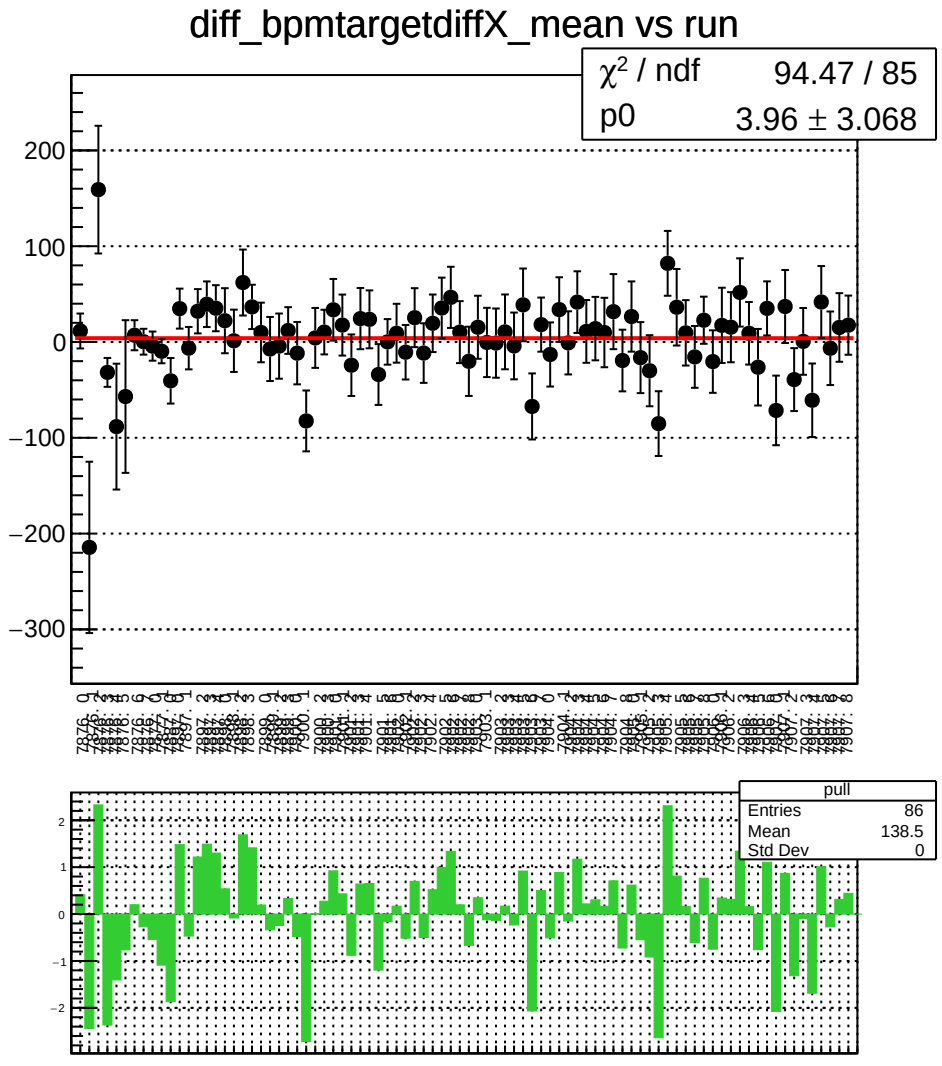

pull1D
Entries 86
Mean 0.01856
Std Dev 0.8787

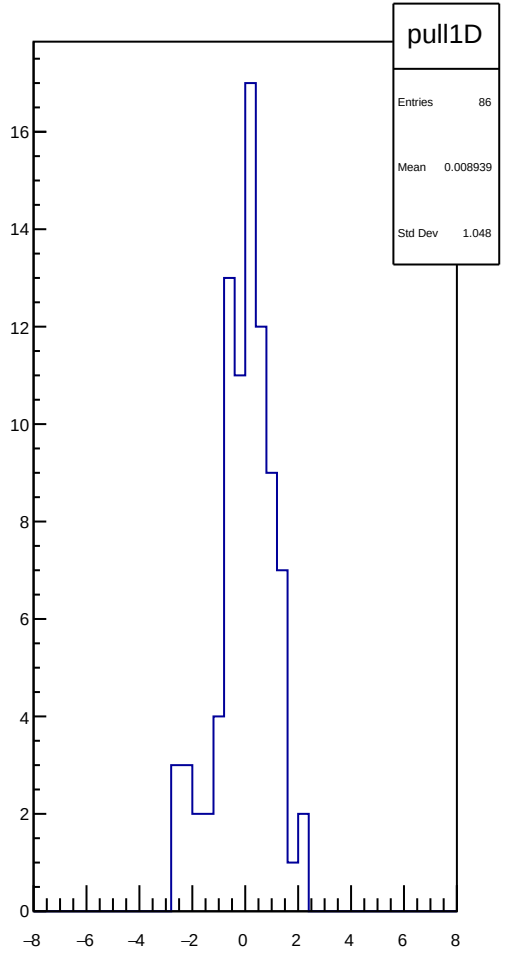

diff_bpm4aediffY_rms vs run
χ^2 / ndf 3.365e+04 / 85
p0 1305 ± 1.015
2000
1800
1600
1400
1200
1000

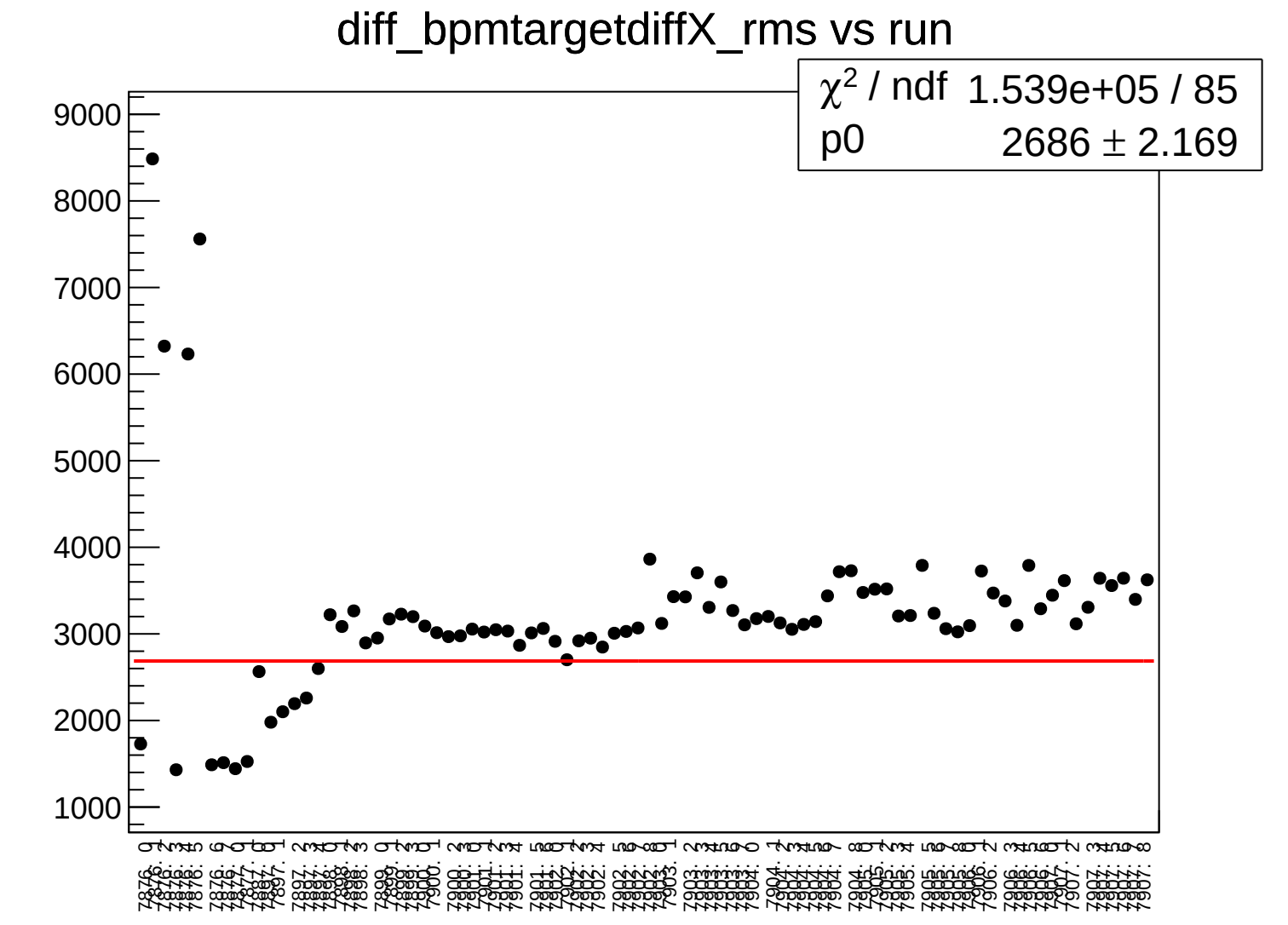

diff_bpmtargetsumX_mean vs run
χ² / ndf 81.7 / 85
p0 −67.59 ± 42.38
pull
Entries 86
Mean −53.77
Std Dev 0

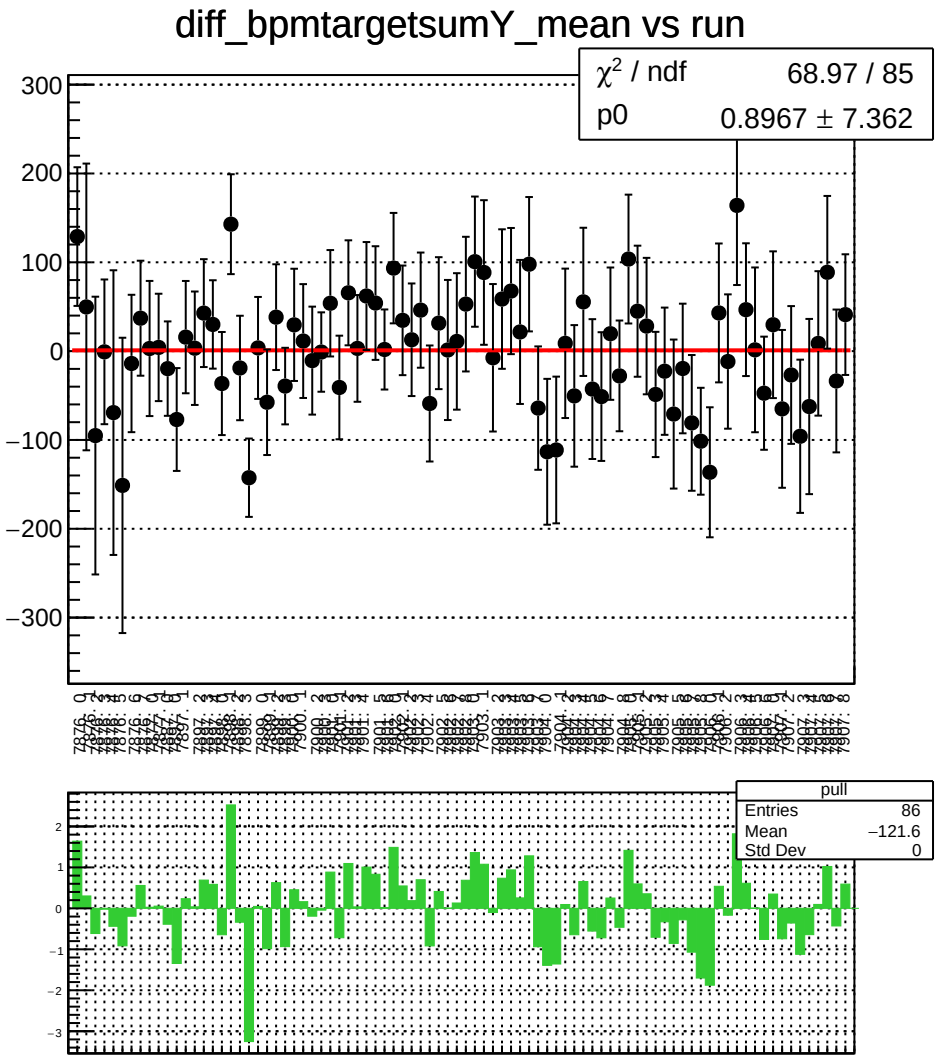

pull1D
Entries 86
Mean 0.009559
Std Dev 0.9746

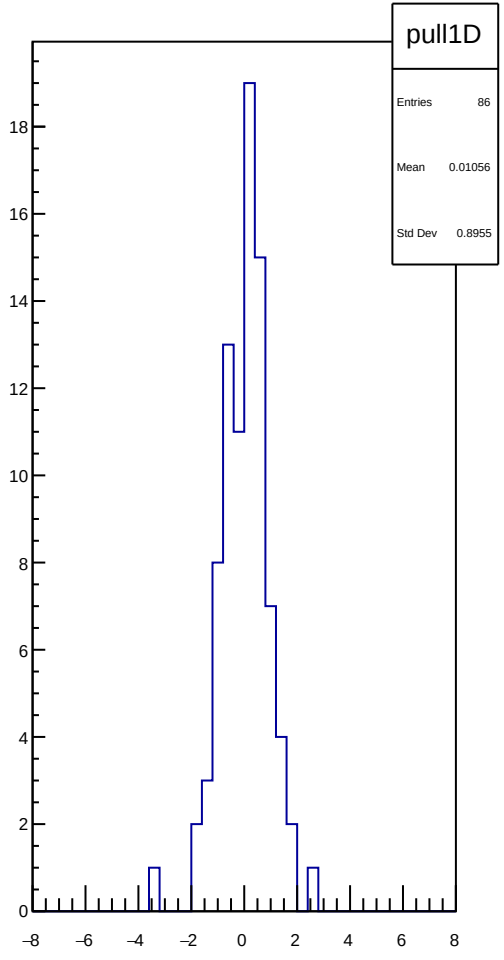

diff_bpmtargetsumX_rms vs run
χ² / ndf 1.96e+04 / 85
p0 3.871e+04 ± 29.97
52000
50000
48000
46000
44000
42000
40000
38000
36000
34000
32000

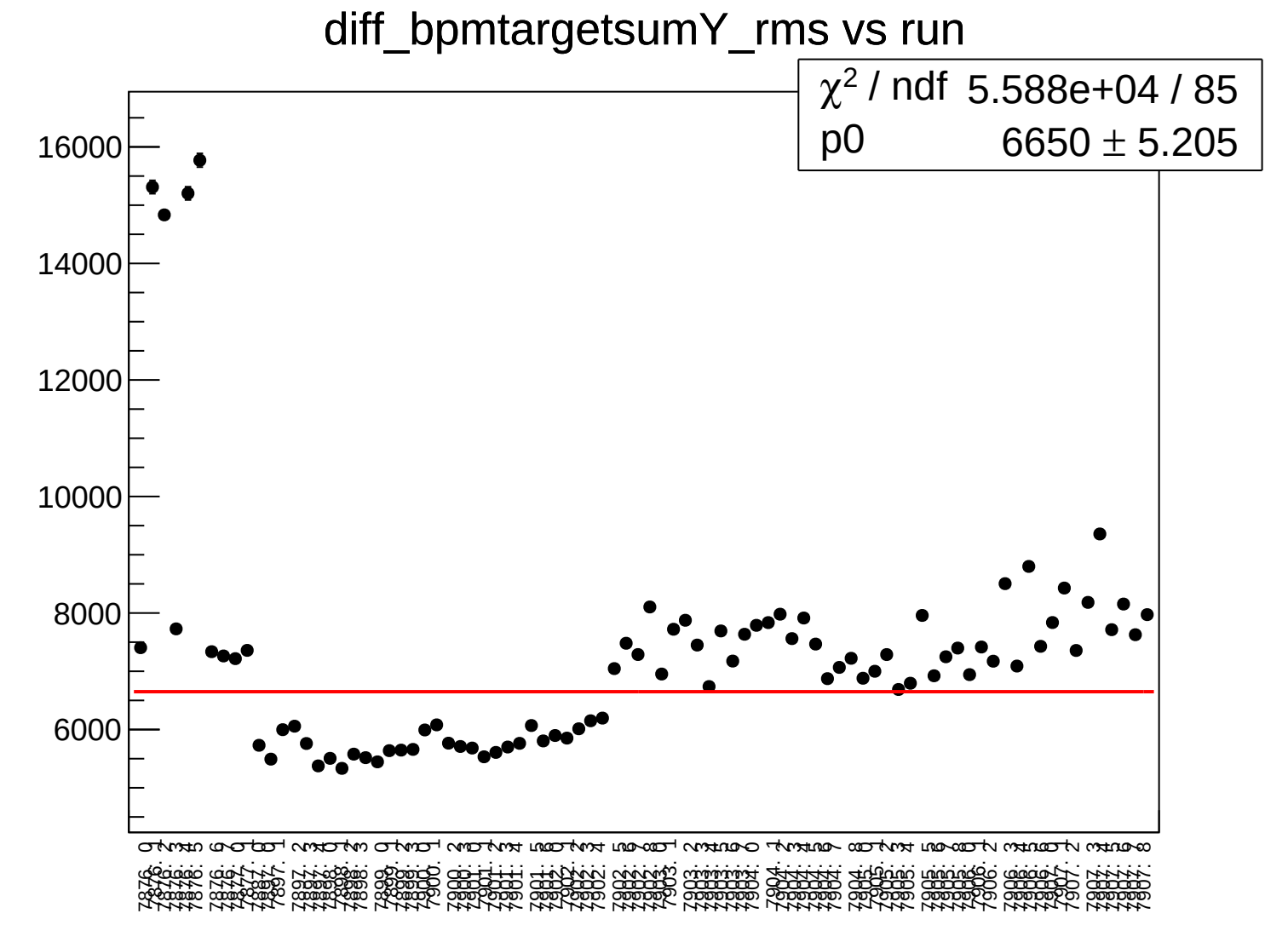

diff_bpmtargetdiffX_mean vs run
χ² / ndf 94.47 / 85
p0 3.96 ± 3.068
200
100
0
−100
−200
−300
pull
Entries 86
Mean 138.5
Std Dev 0
2
1
0
−1
−2

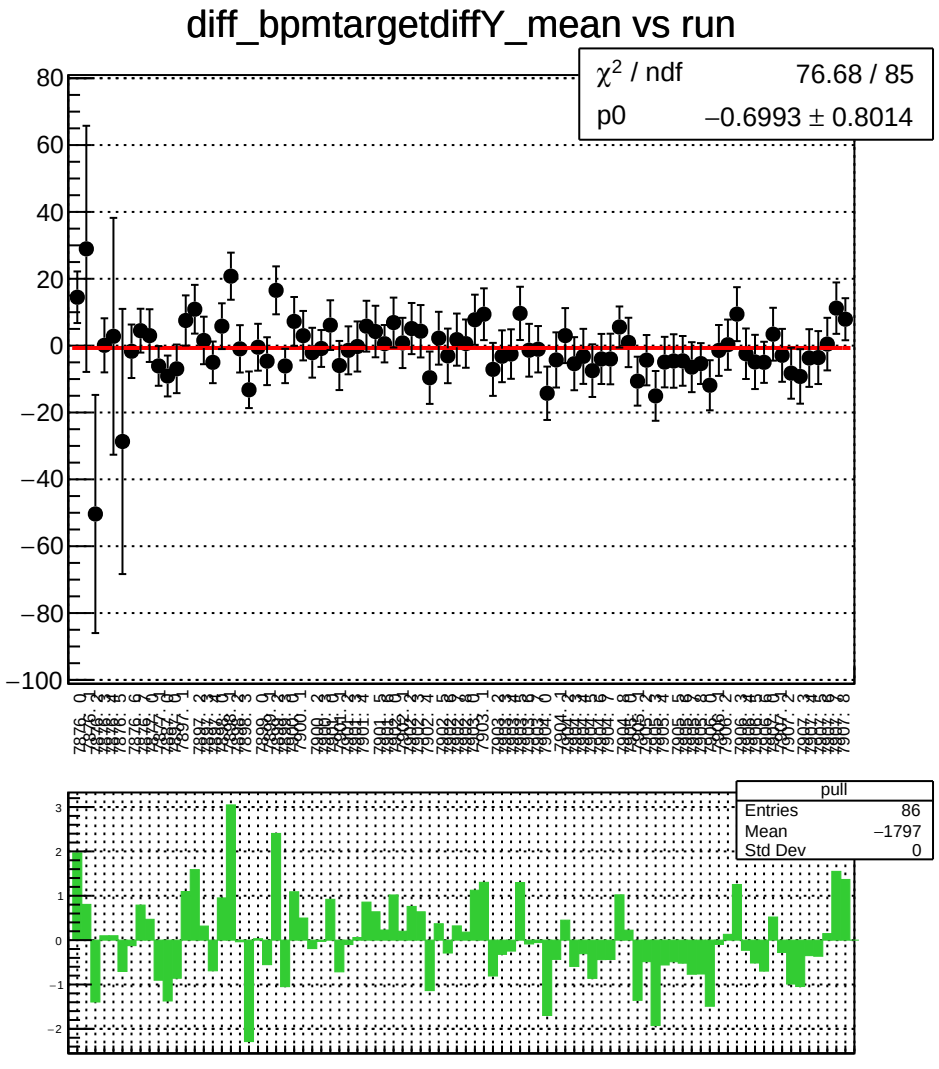

pull1D
Entries 86
Mean 0.008939
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

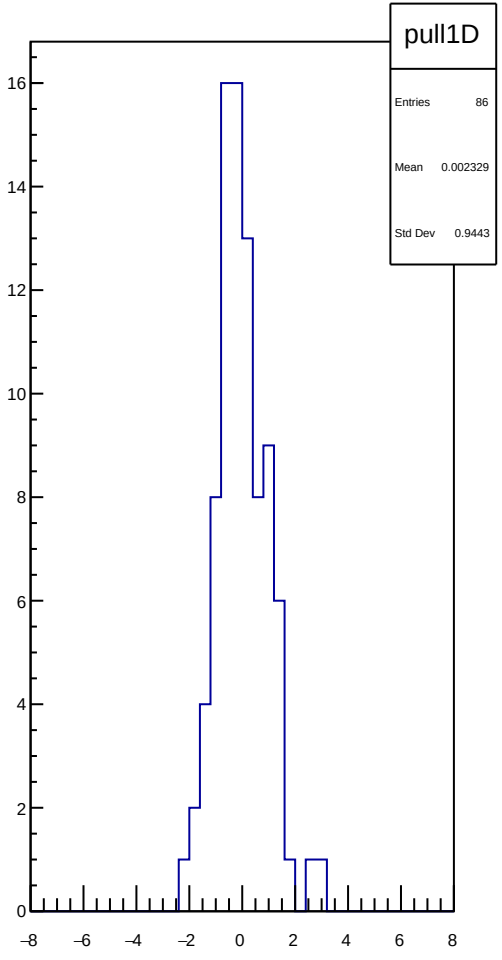

diff_bpmtargetdiffX_rms vs run
χ^2 / ndf 1.539e+05 / 85
p0 2686 ± 2.169
9000
8000
7000
6000
5000
4000
3000
2000
1000

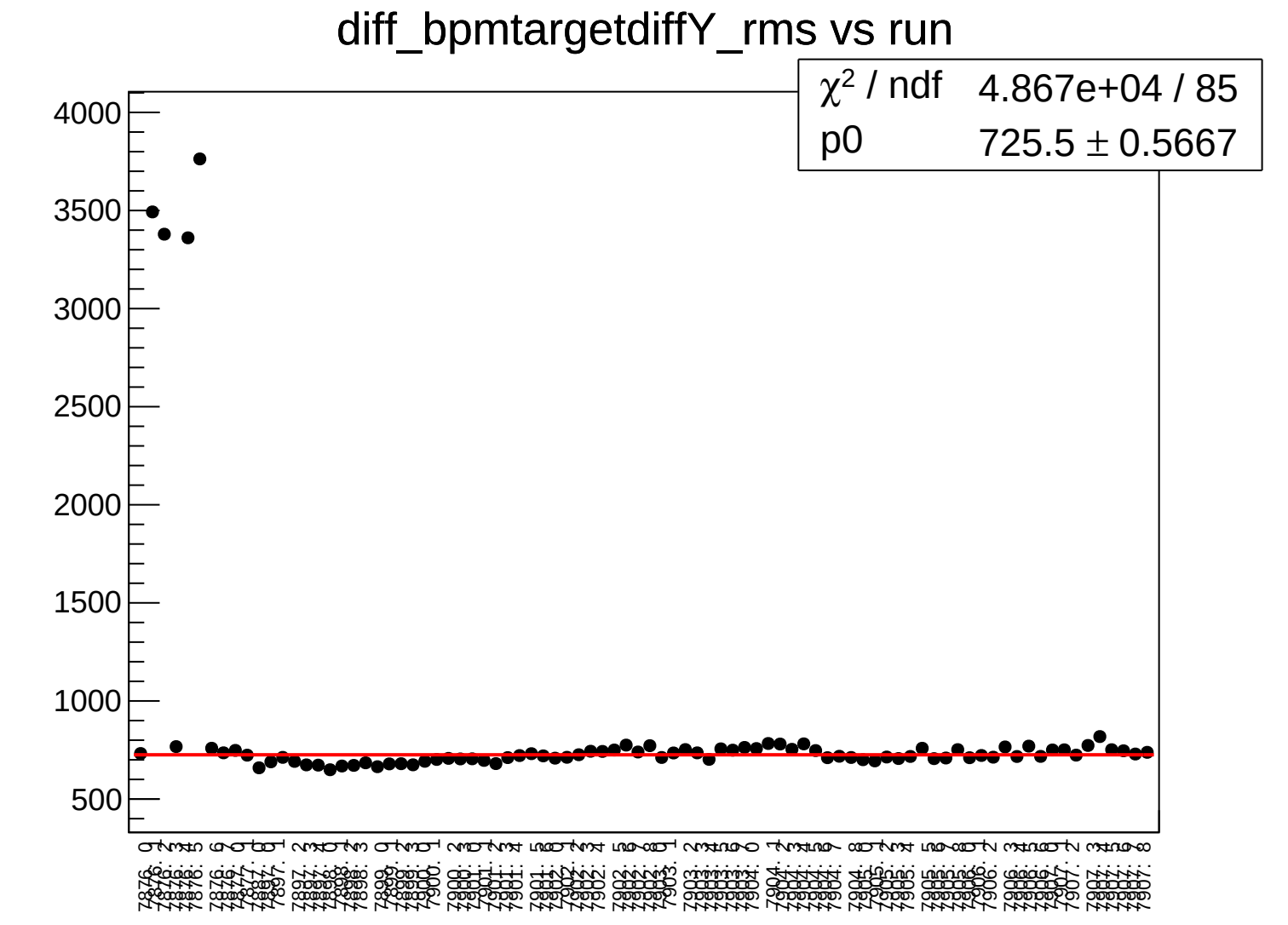

diff_bpmtargetsumY_mean vs run
χ² / ndf 68.97 / 85
p0 0.8967 ± 7.362
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −121.6
Std Dev 0
2
1
0
−1
−2
−3

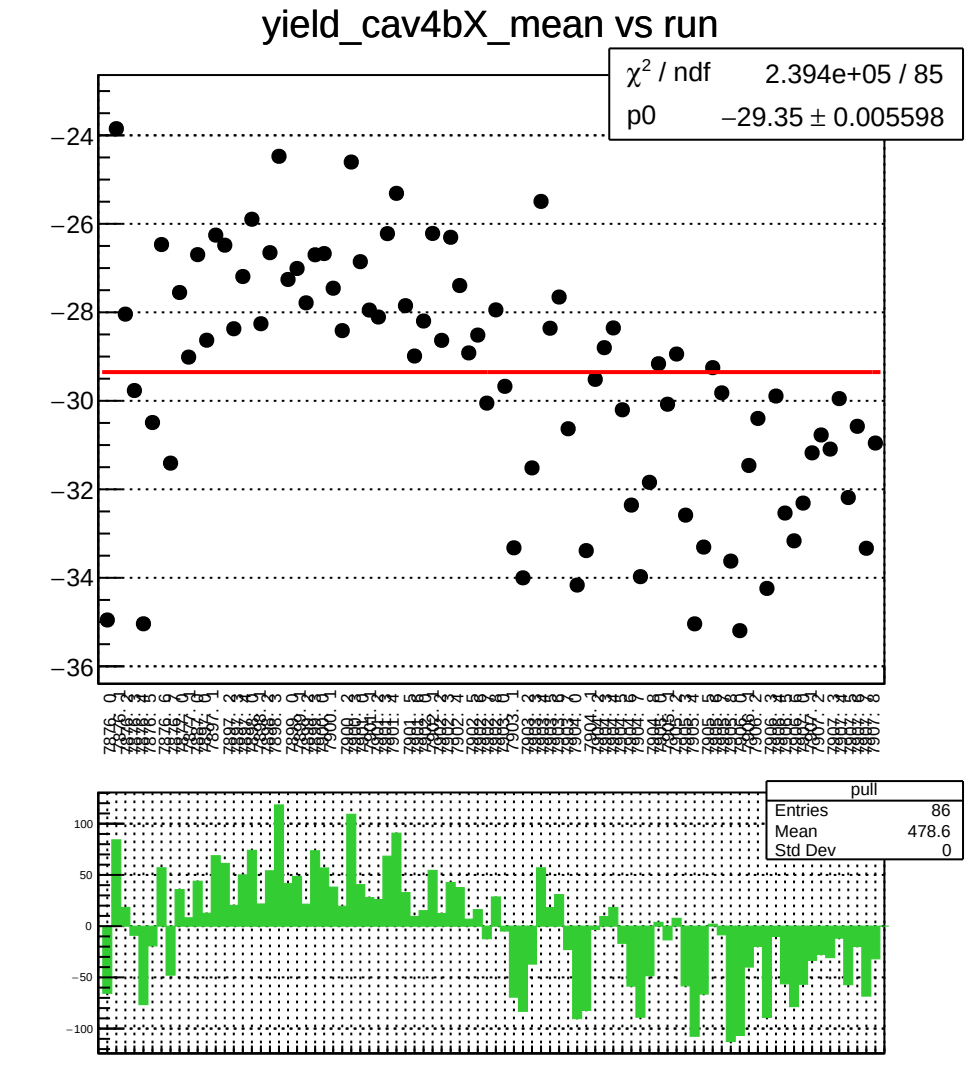

pull1D
Entries 86
Mean 0.01056
Std Dev 0.8955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

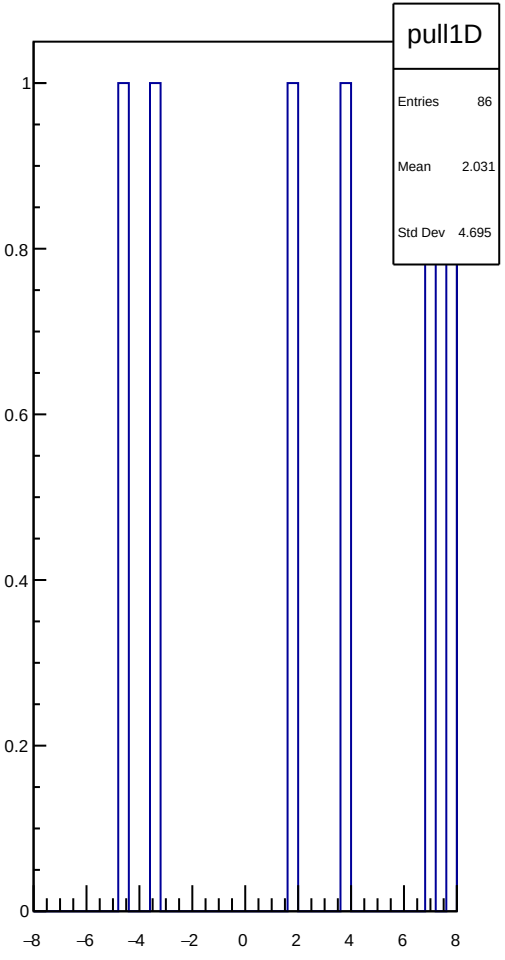

diff_bpmtargetsumY_rms vs run
χ² / ndf 5.588e+04 / 85
p0 6650 ± 5.205
16000
14000
12000
10000
8000
6000

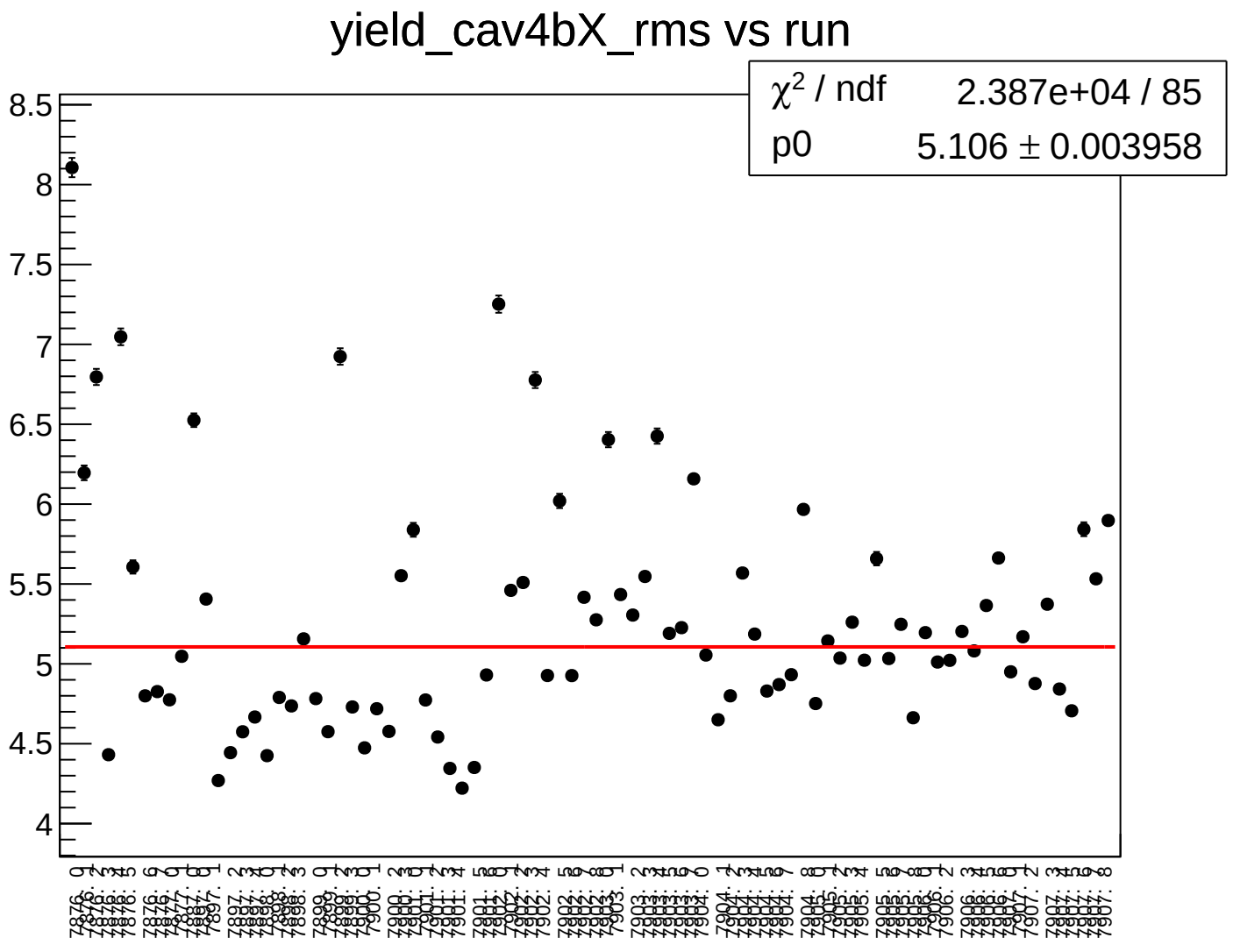

diff_bpmtargetdiffY_mean vs run
χ² / ndf 76.68 / 85
p0 −0.6993 ± 0.8014
pull
Entries 86
Mean −1797
Std Dev 0

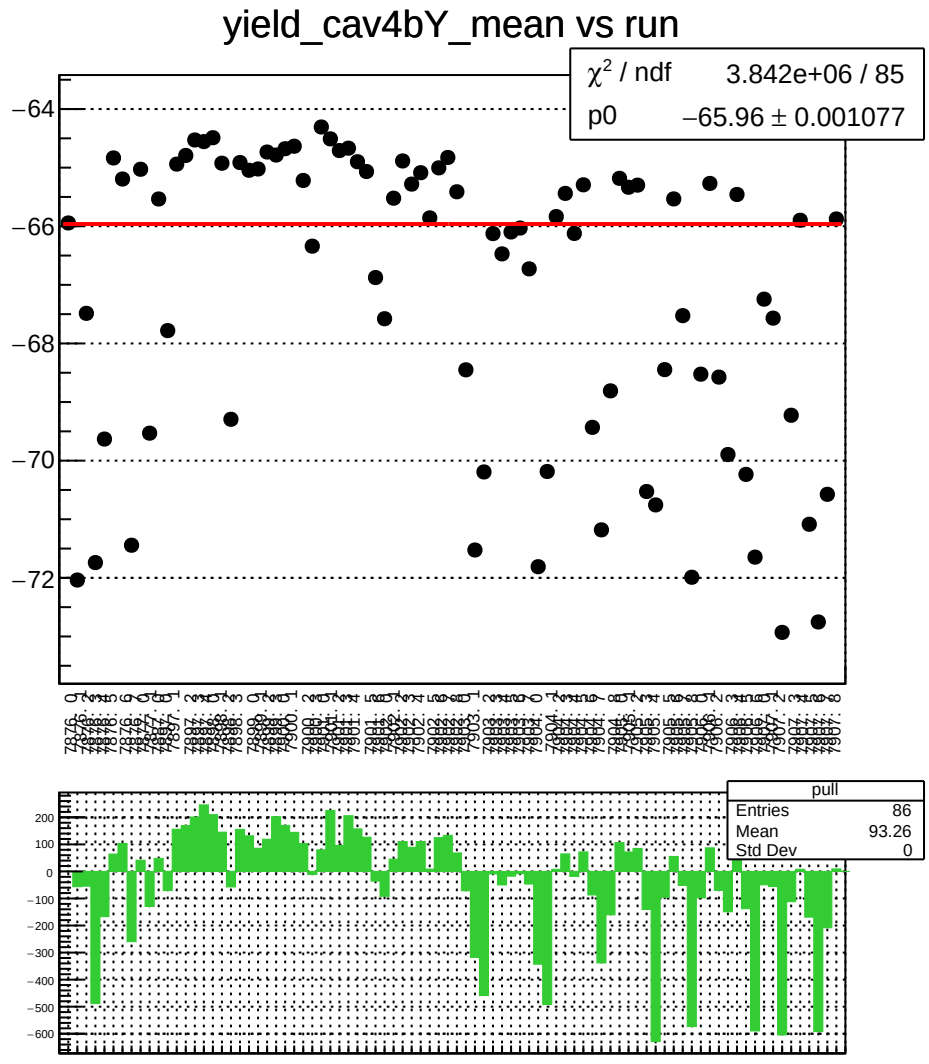

pull1D
Entries 86
Mean 0.002329
Std Dev 0.9443

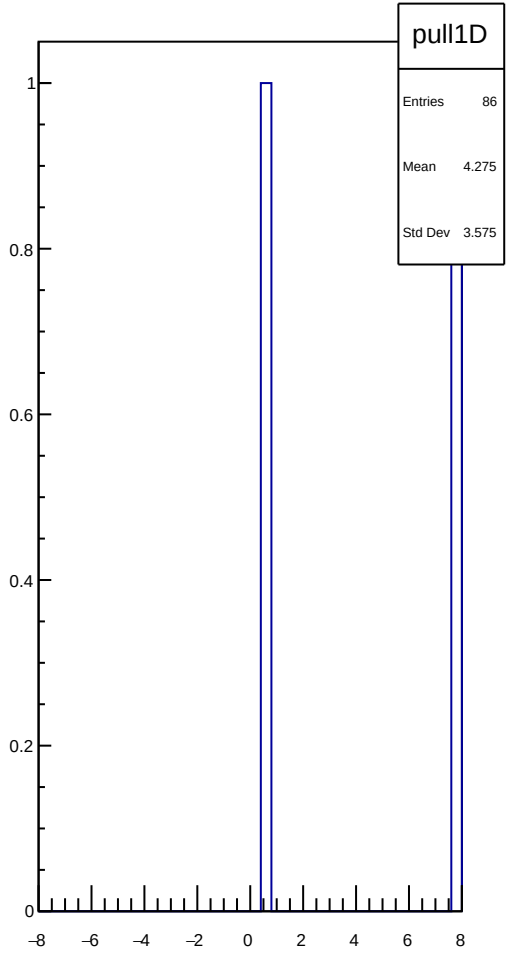

diff_bpmtargetdiffY_rms vs run
χ² / ndf 4.867e+04 / 85
p0 725.5 ± 0.5667
4000
3500
3000
2500
2000
1500
1000
500


yield_cav4bX_mean vs run
χ² / ndf 2.394e+05 / 85
p0 −29.35 ± 0.005598
−24
−26
−28
−30
−32
−34
−36
pull
Entries 86
Mean 478.6
Std Dev 0
100
50
0
−50
−100

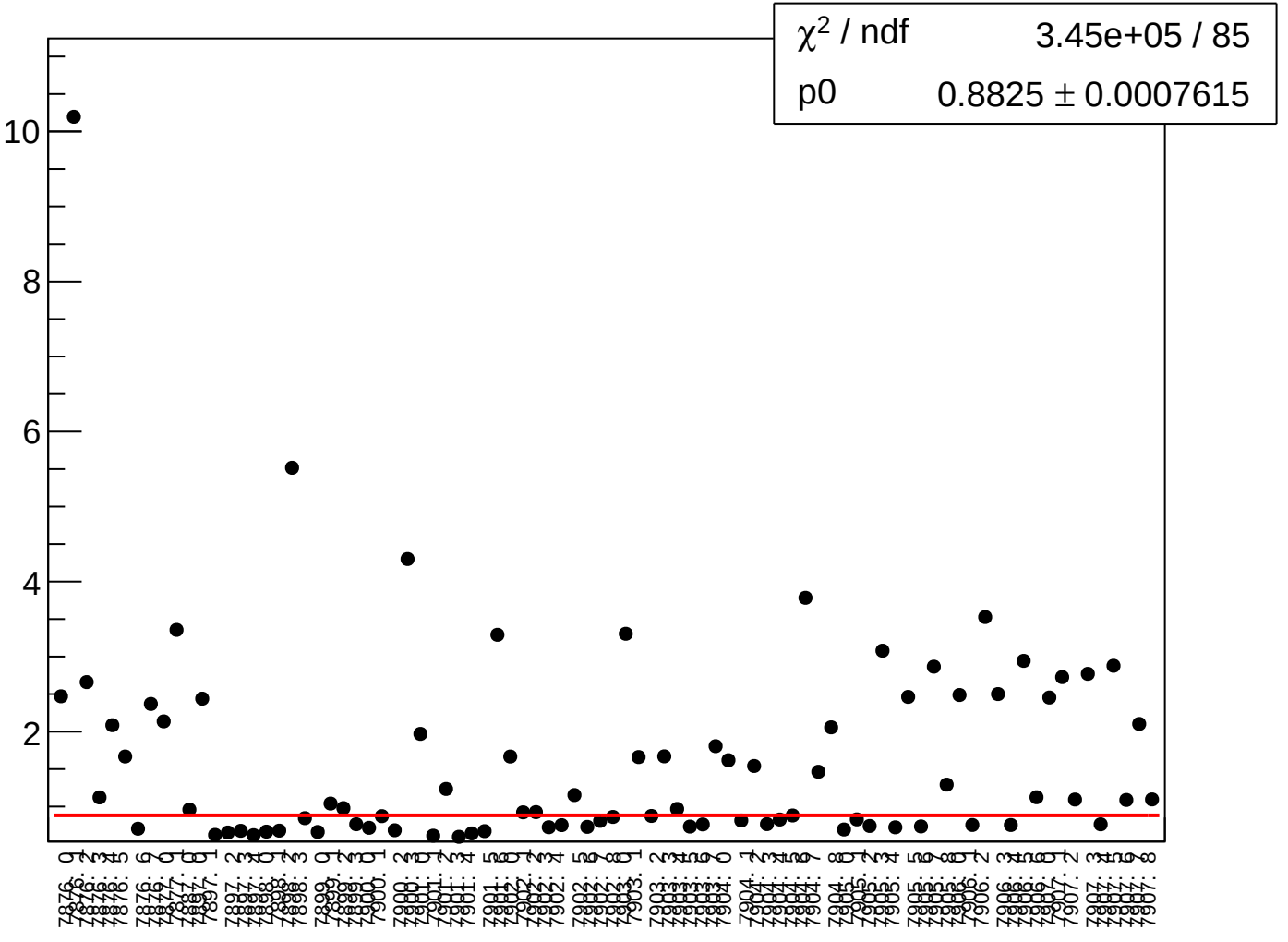

pull1D
Entries 86
Mean 2.031
Std Dev 4.695
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

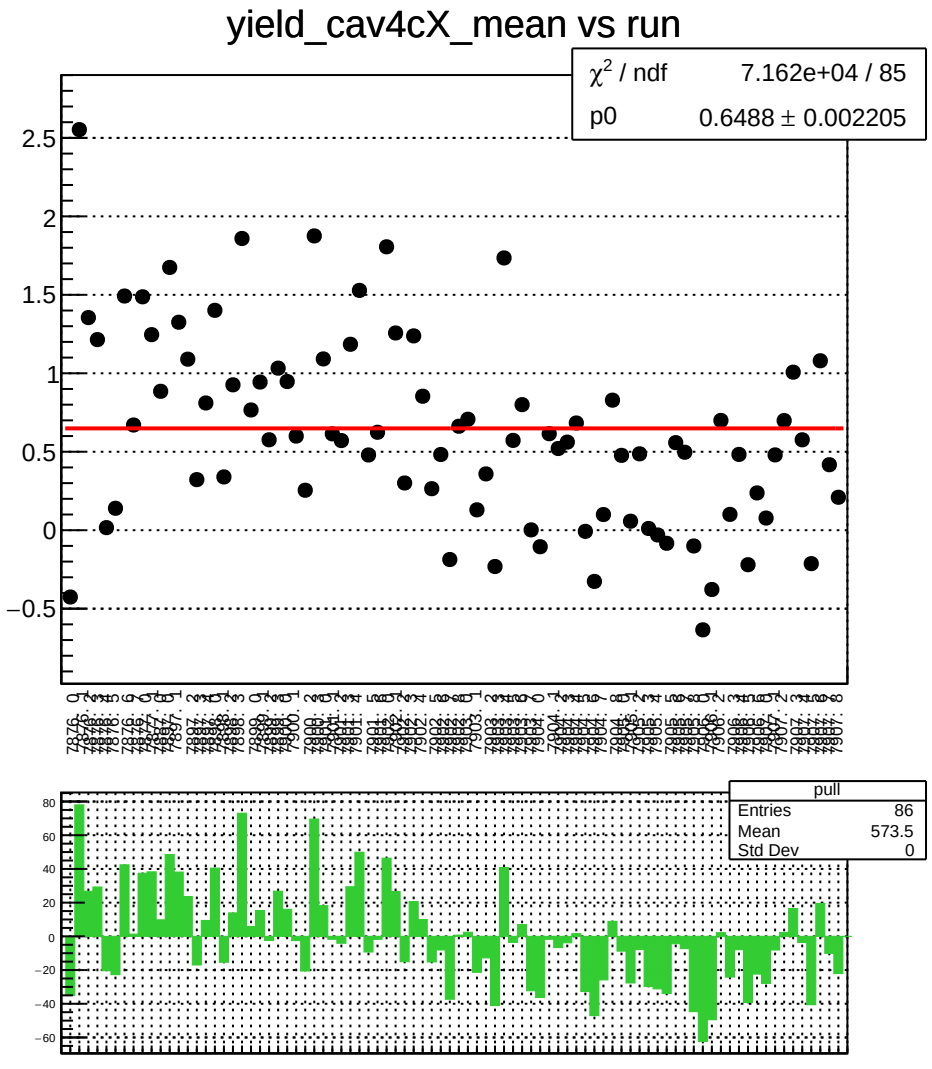

yield_cav4bX_rms vs run
χ^2 / ndf 2.387e+04 / 85
p0 5.106 ± 0.003958
8.5
8
7.5
7
6.5
6
5.5
5
4.5
4

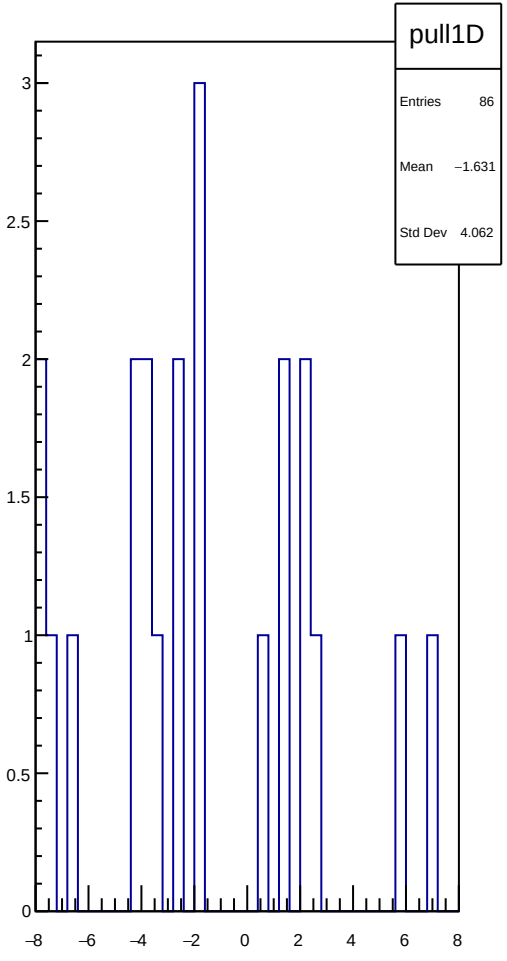

yield_cav4bY_mean vs run
χ² / ndf 3.842e+06 / 85
p0 −65.96 ± 0.001077
−64
−66
−68
−70
−72
pull
Entries 86
Mean 93.26
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

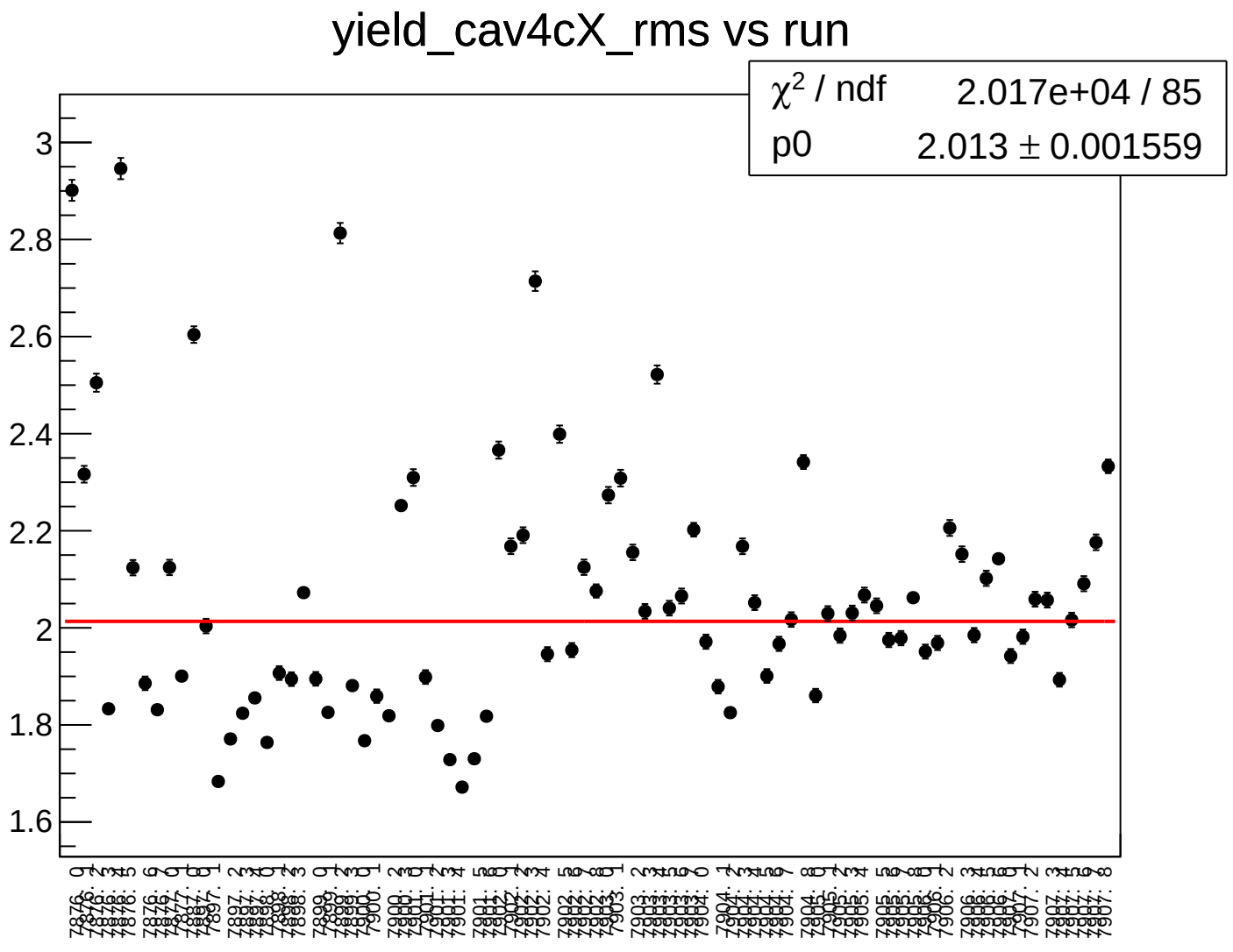

pull1D
Entries 86
Mean 4.275
Std Dev 3.575
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

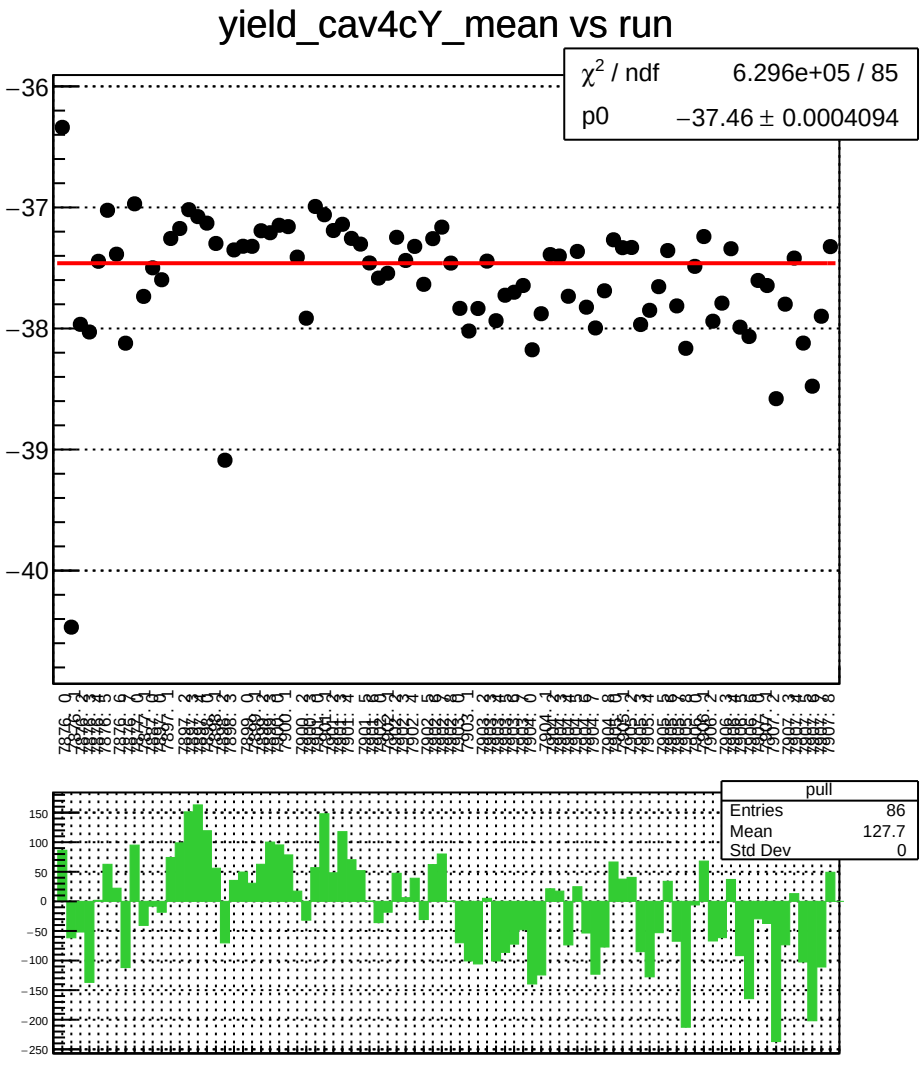
yield_cav4bY_rms vs run

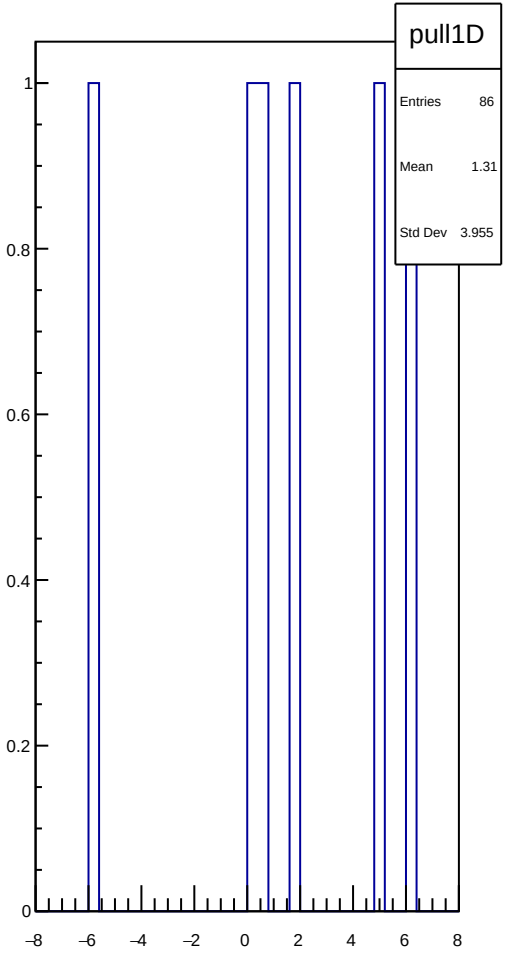


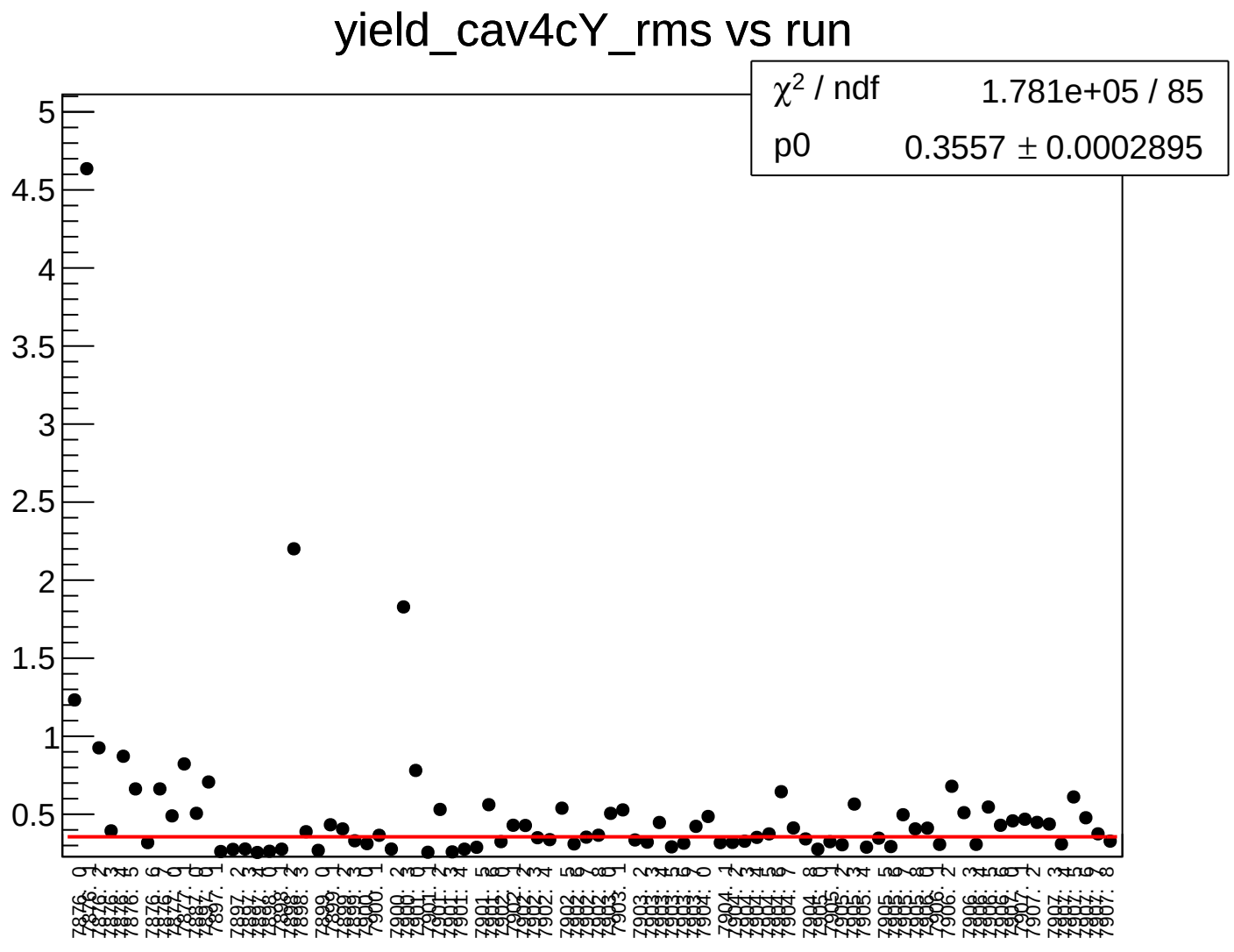

yield_cav4cX_mean vs run
χ² / ndf 7.162e+04 / 85
p0 0.6488 ± 0.002205
pull
Entries 86
Mean 573.5
Std Dev 0

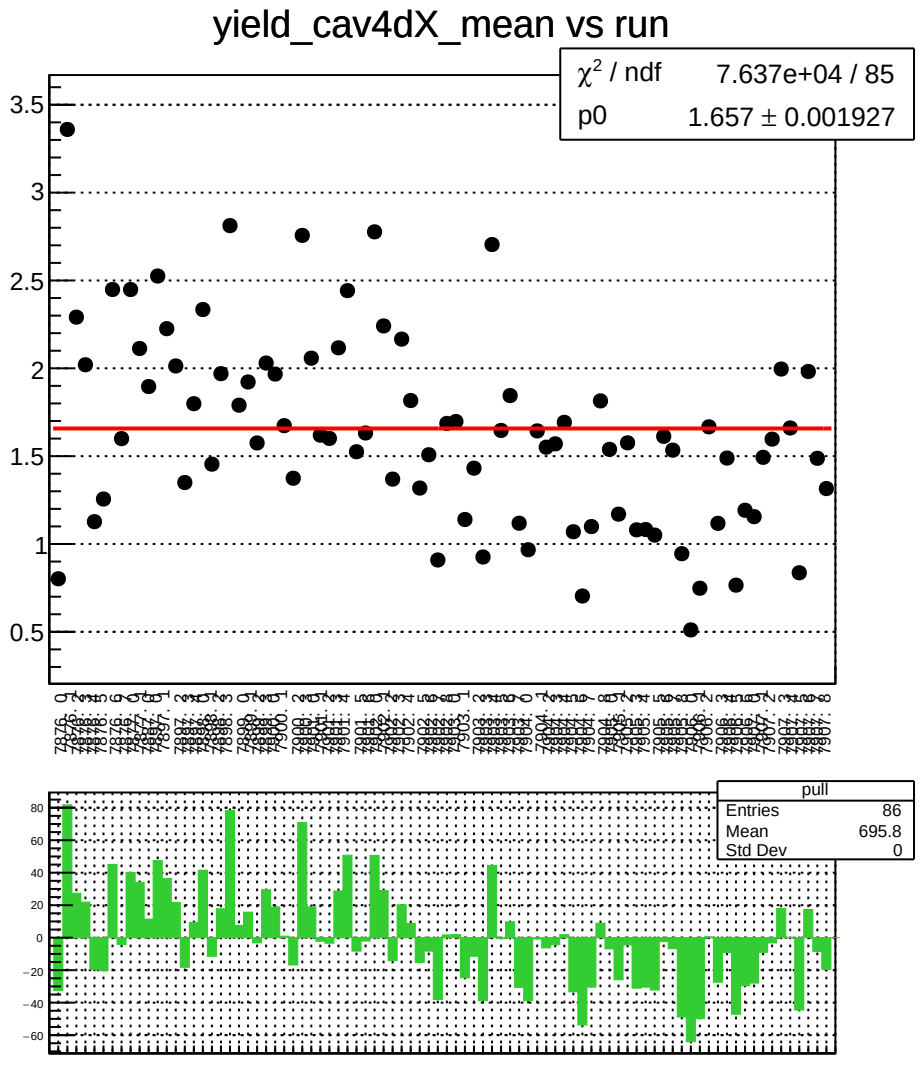

pull1D
Entries 86
Mean −1.631
Std Dev 4.062

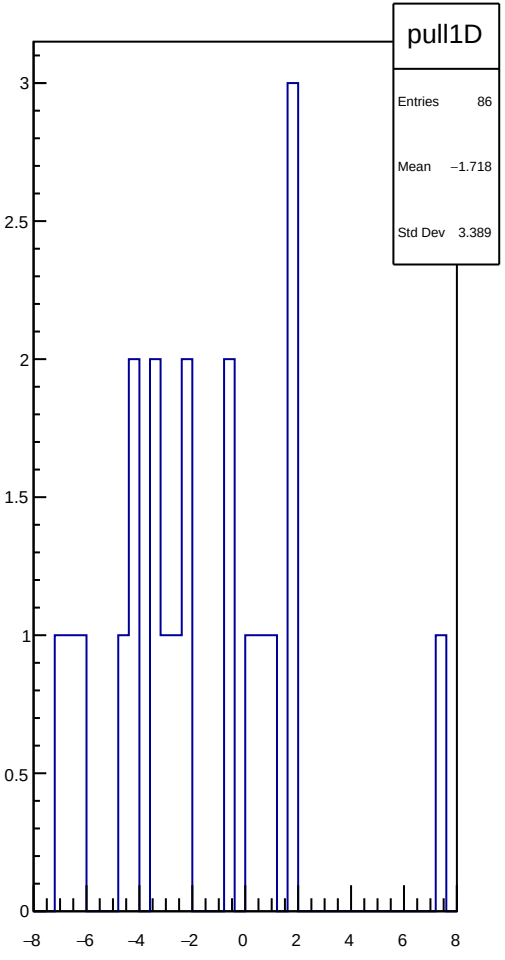

yield_cav4cX_rms vs run
χ^2 / ndf 2.017e+04 / 85
p0 2.013 ± 0.001559
3
2.8
2.6
2.4
2.2
2
1.8
1.6

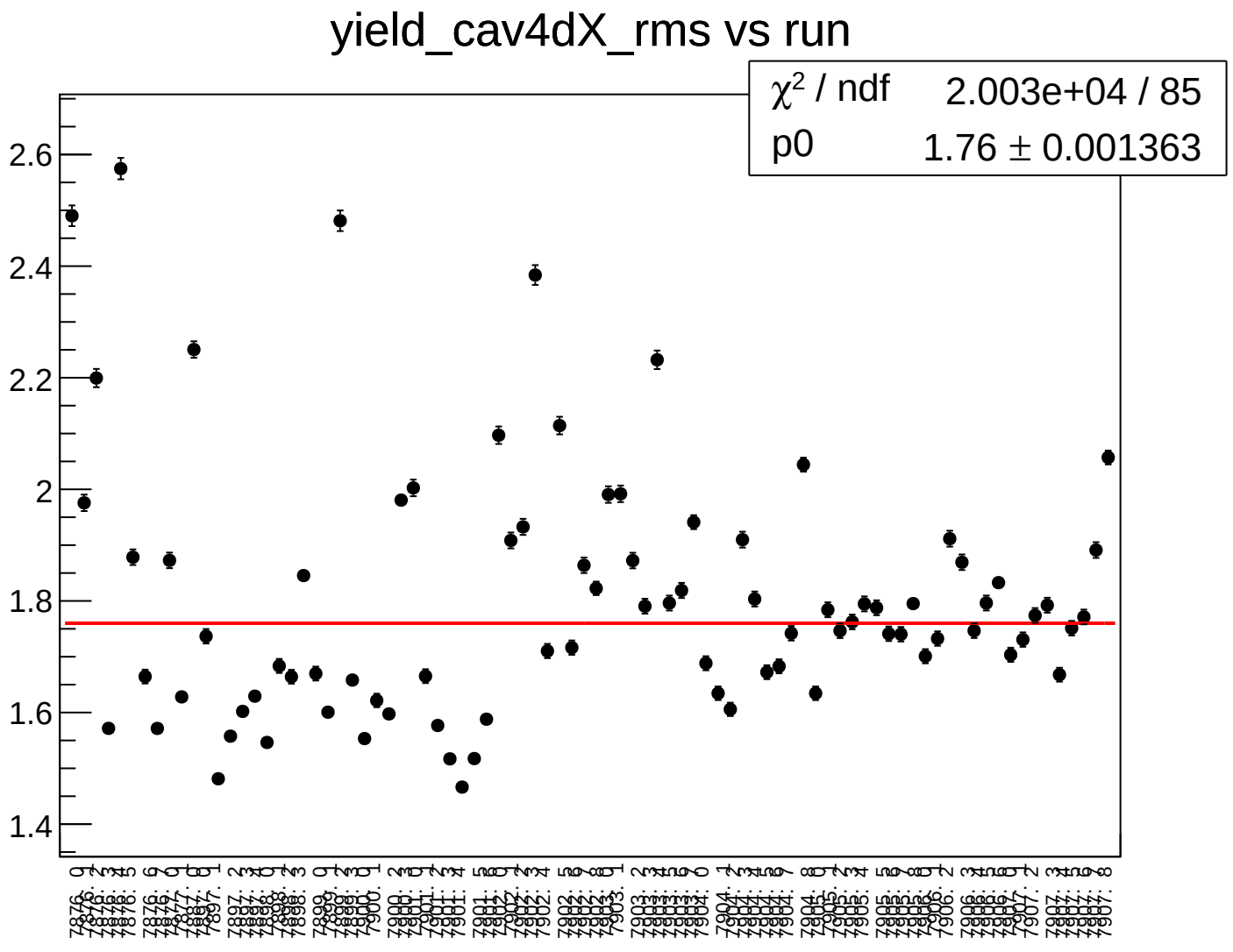

yield_cav4cY_mean vs run
χ² / ndf 6.296e+05 / 85
p0 −37.46 ± 0.0004094
−36
−37
−38
−39
−40
pull
Entries 86
Mean 127.7
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

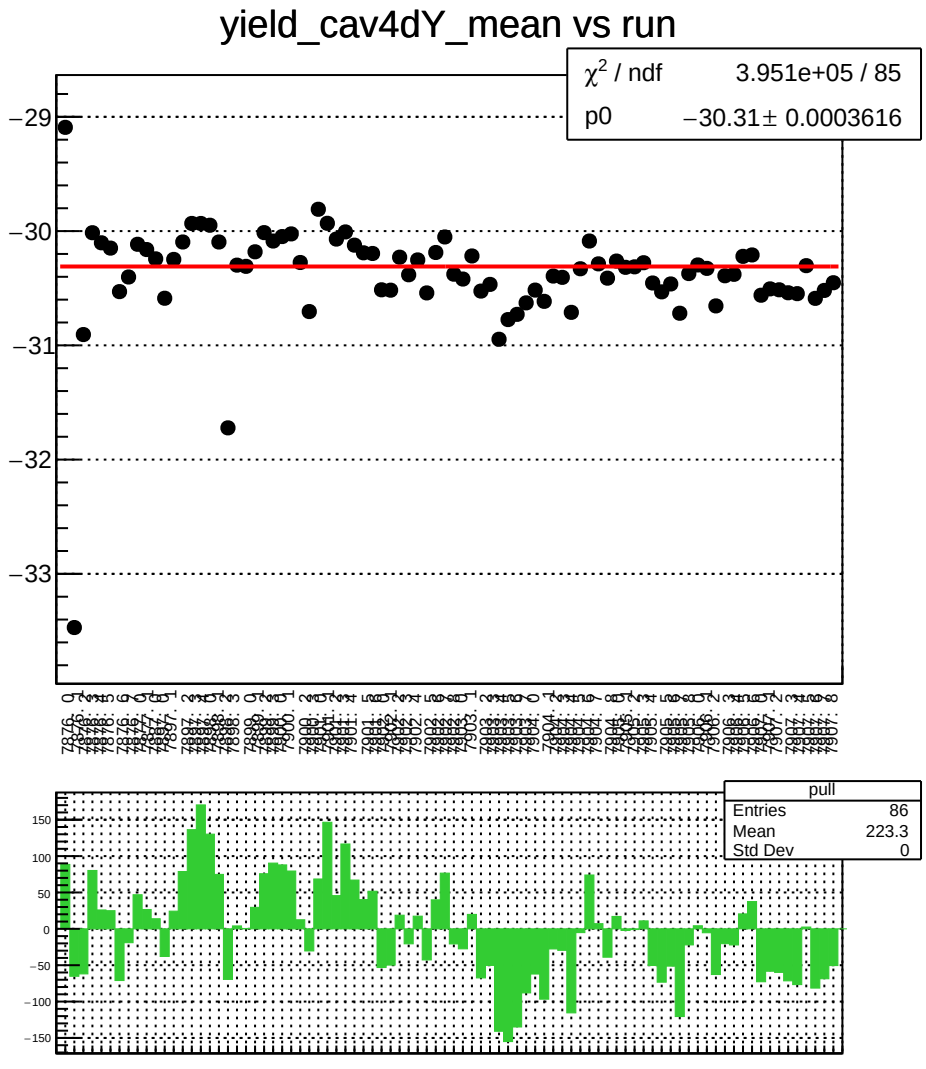

pull1D
Entries 86
Mean 1.31
Std Dev 3.955
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

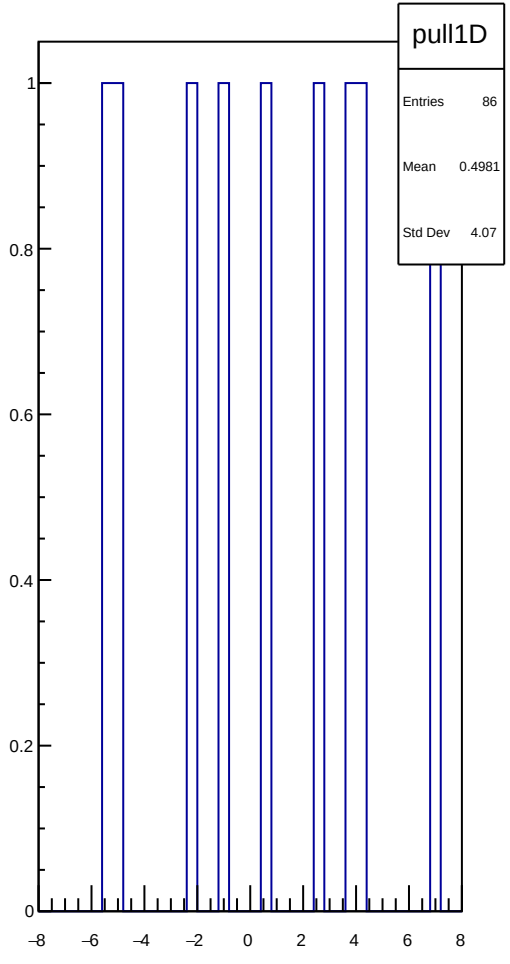

yield_cav4cY_rms vs run
χ^2 / ndf 1.781e+05 / 85
p0 0.3557 ± 0.0002895
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

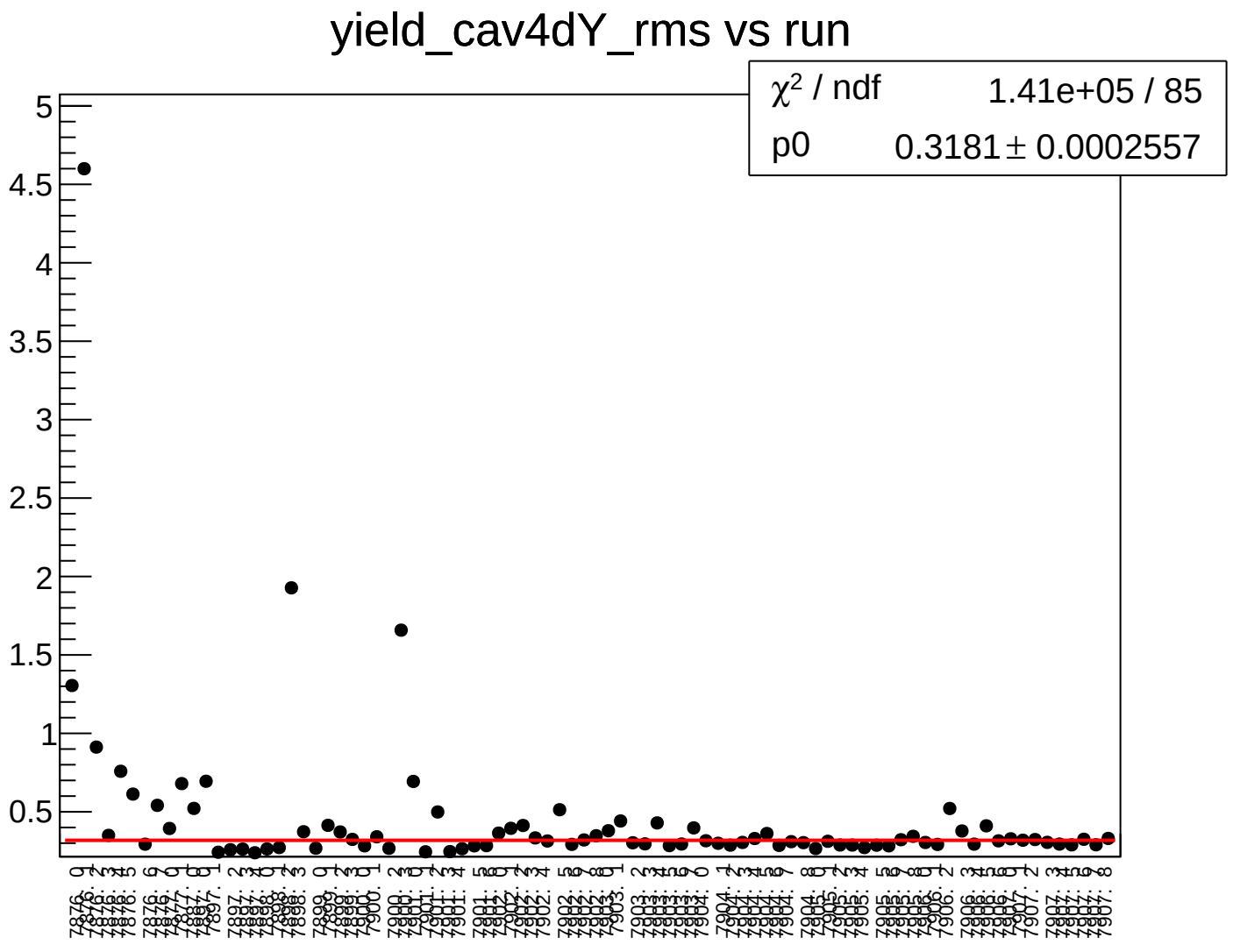

yield_cav4dX_mean vs run
χ² / ndf 7.637e+04 / 85
p0 1.657 ± 0.001927
pull
Entries 86
Mean 695.8
Std Dev 0

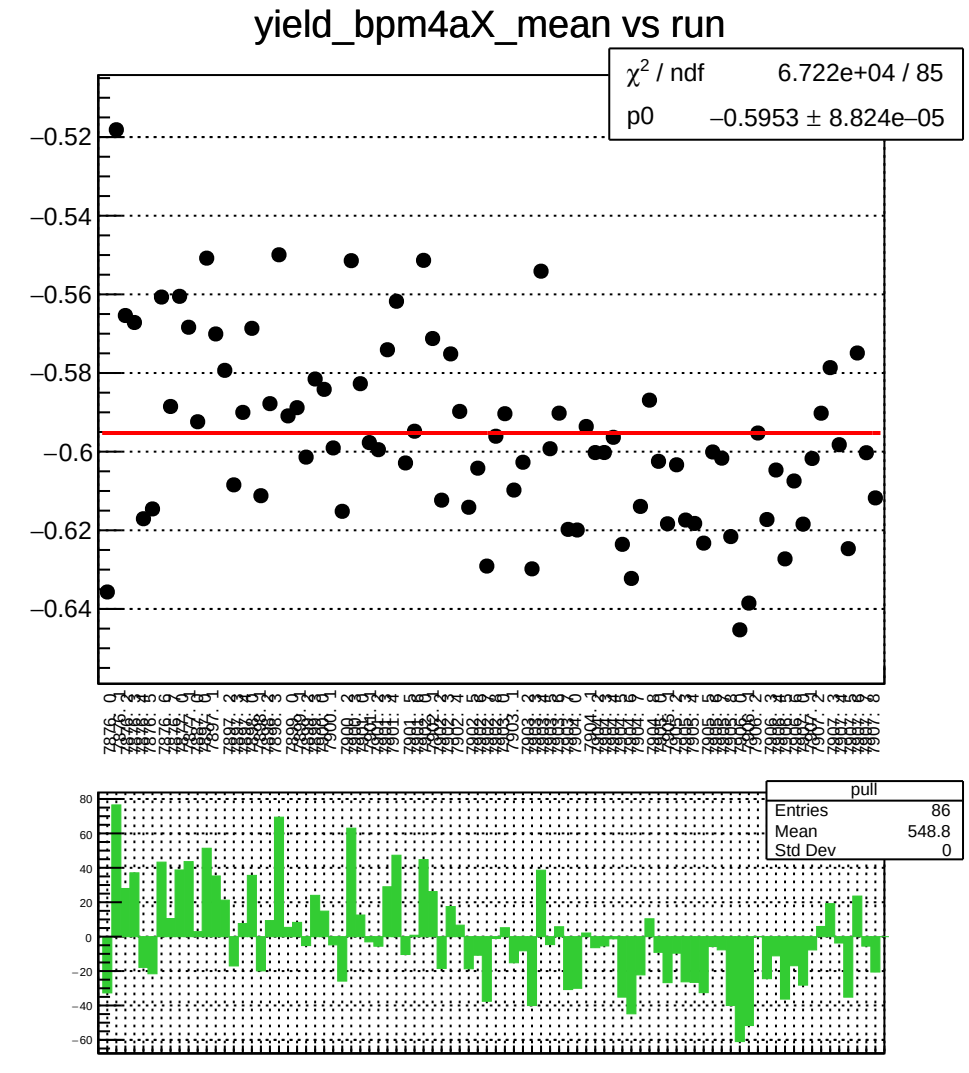

pull1D
Entries 86
Mean −1.718
Std Dev 3.389

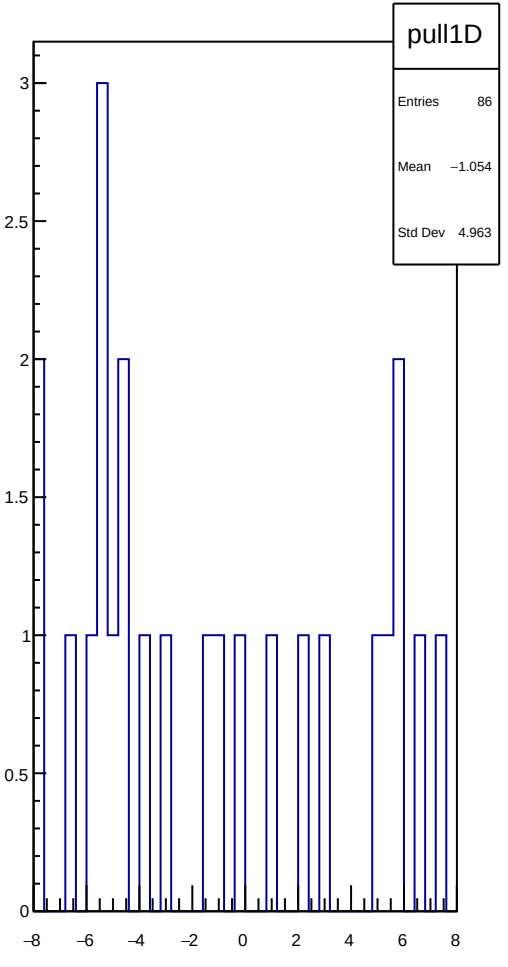

yield_cav4dX_rms vs run
χ² / ndf 2.003e+04 / 85
p0 1.76 ± 0.001363
2.6
2.4
2.2
2
1.8
1.6
1.4

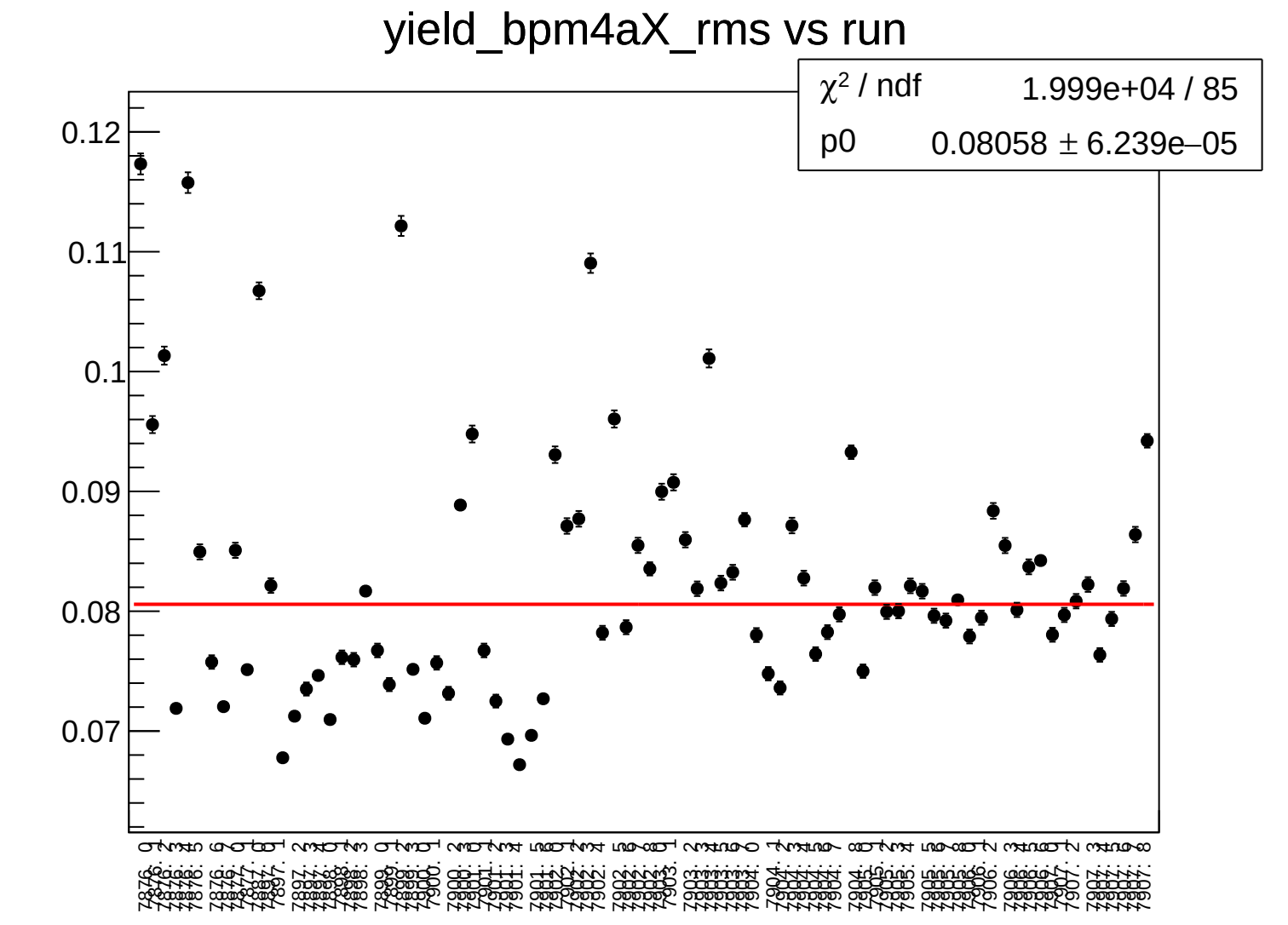

yield_cav4dY_mean vs run
χ² / ndf 3.951e+05 / 85
p0 −30.31 ± 0.0003616
−29
−30
−31
−32
−33
pull
Entries 86
Mean 223.3
Std Dev 0
150
100
50
0
−50
−100
−150

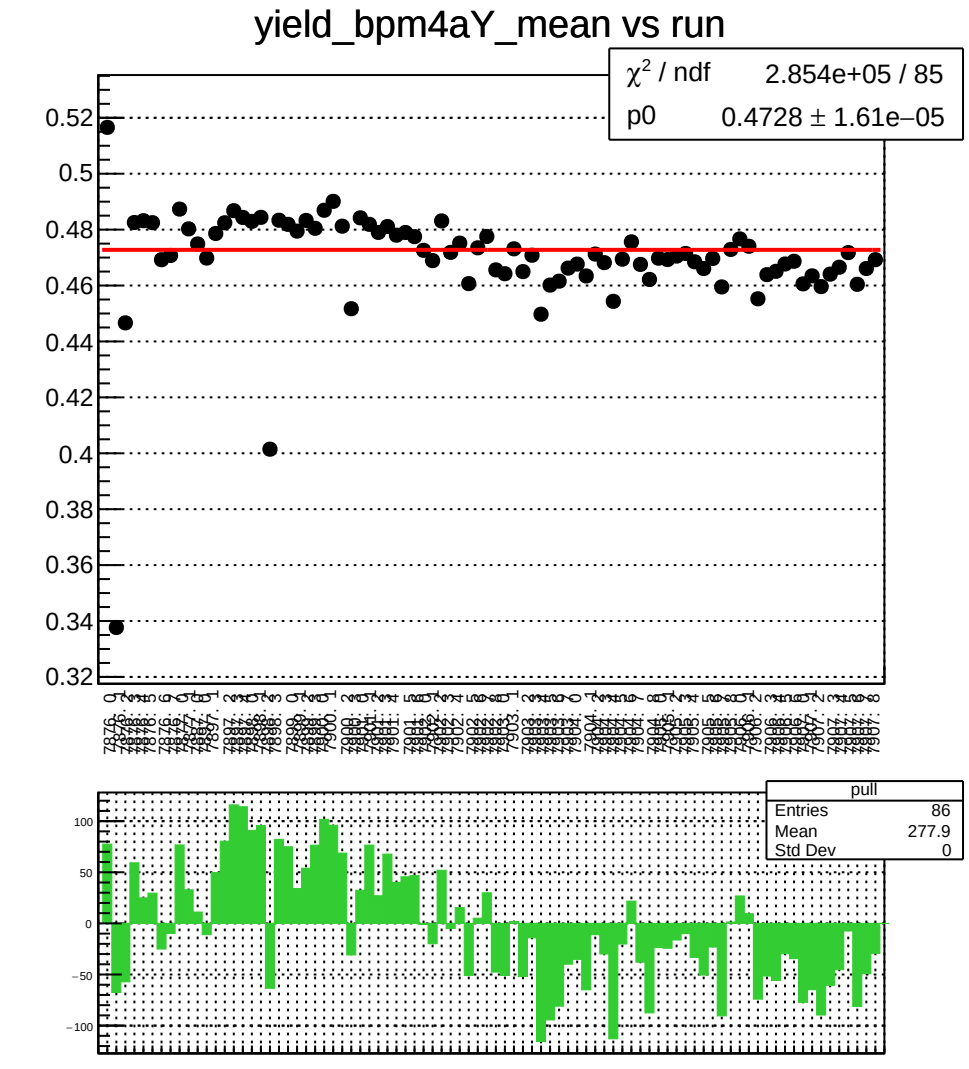

pull1D
Entries 86
Mean 0.4981
Std Dev 4.07
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

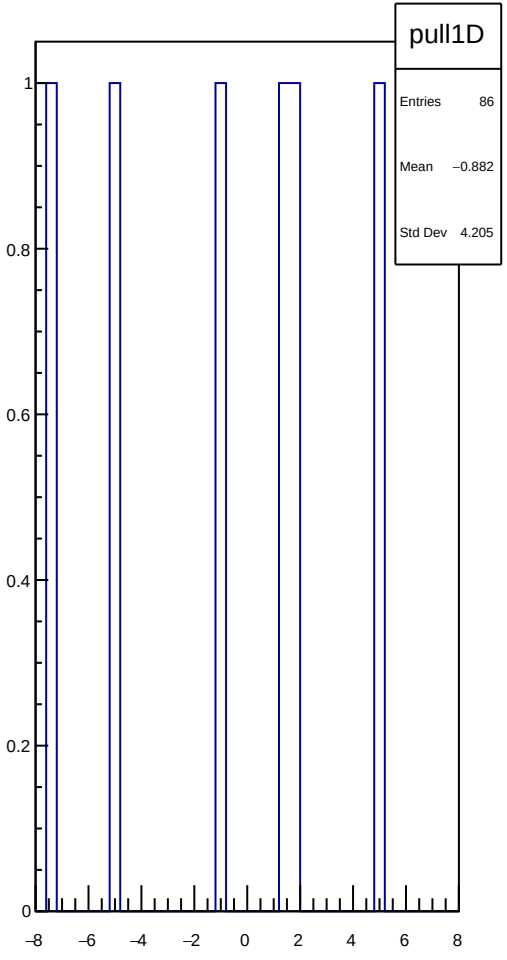

yield_cav4dY_rms vs run
χ² / ndf 1.41e+05 / 85
p0 0.3181 ± 0.0002557
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

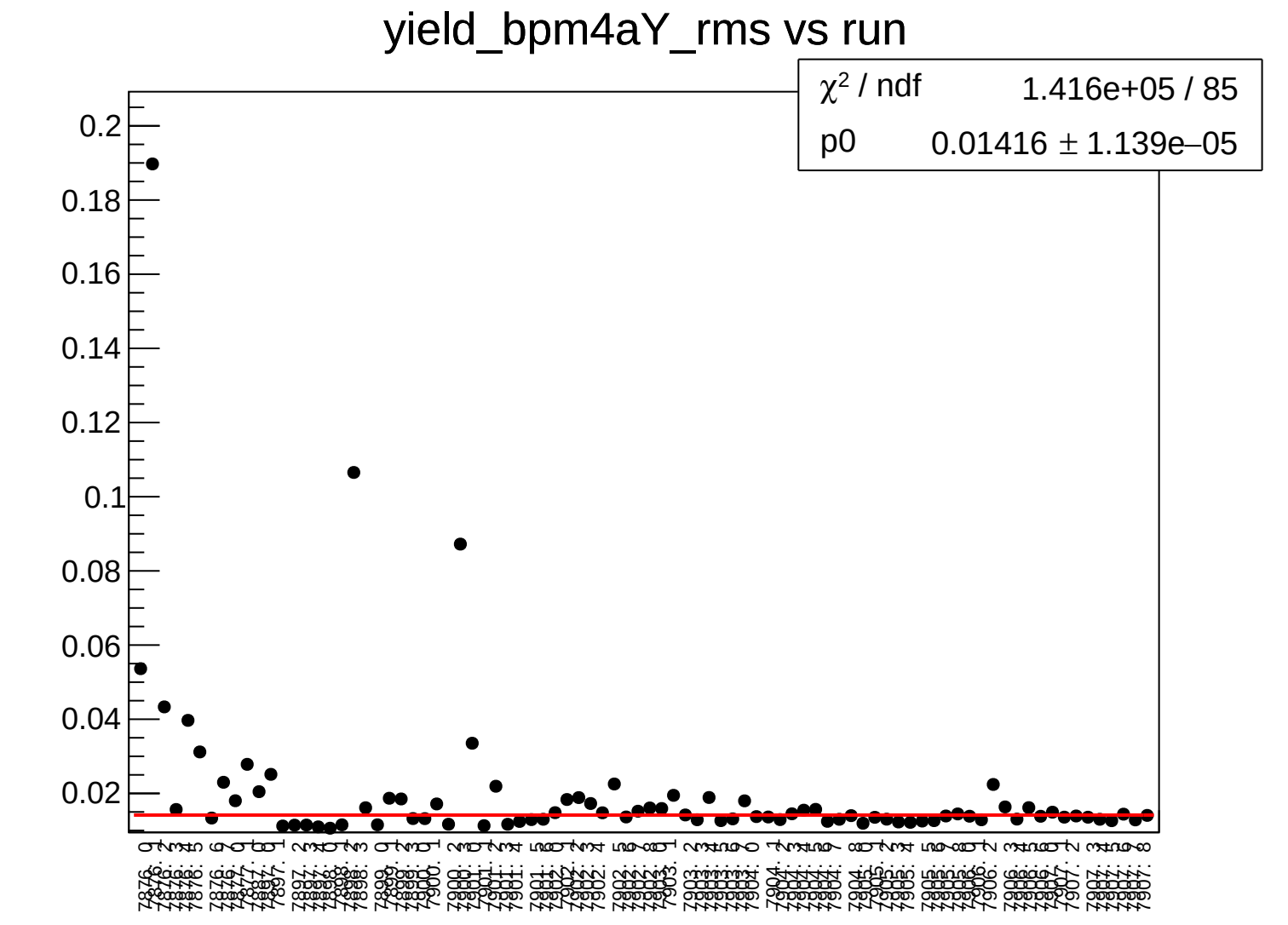

yield_bpm4aX_mean vs run
χ² / ndf 6.722e+04 / 85
p0 −0.5953 ± 8.824e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
pull
Entries 86
Mean 548.8
Std Dev 0
80
60
40
20
0
−20
−40
−60

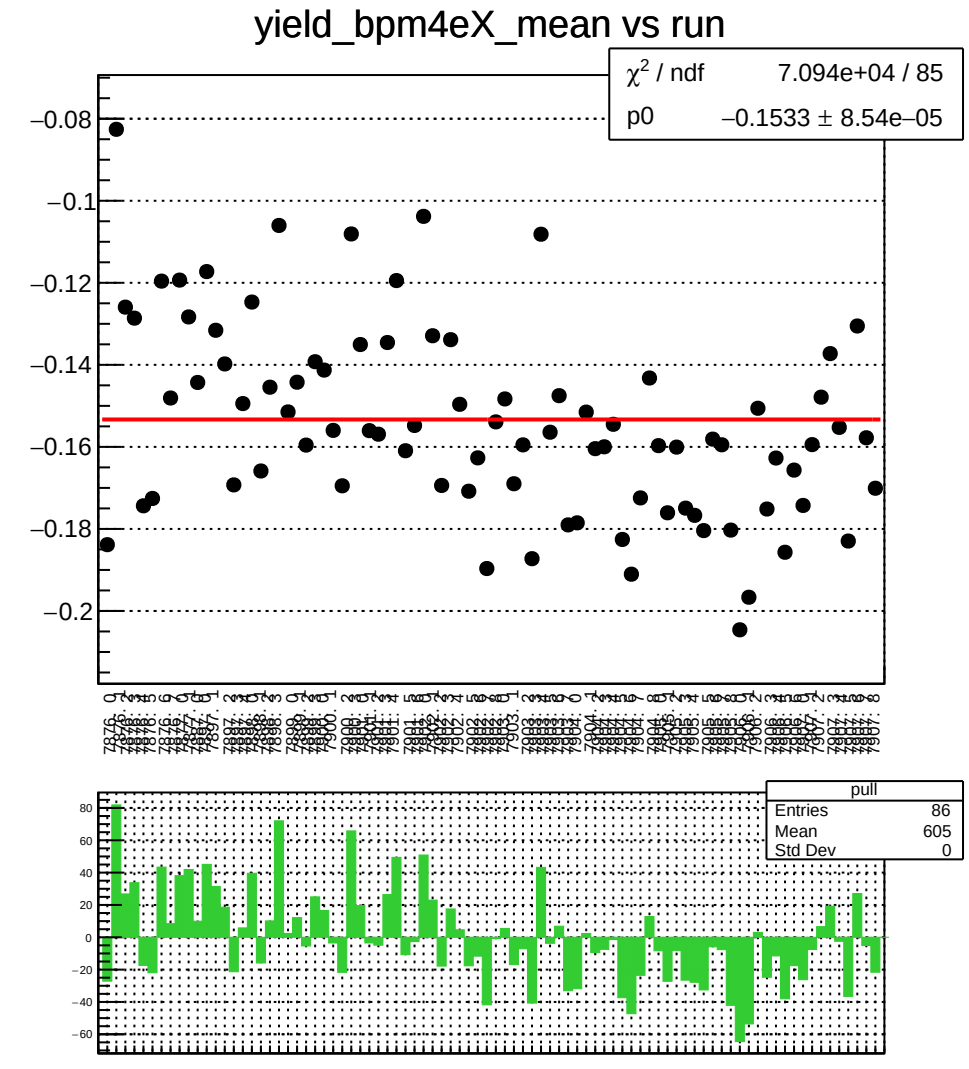

pull1D
Entries 86
Mean −1.054
Std Dev 4.963
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

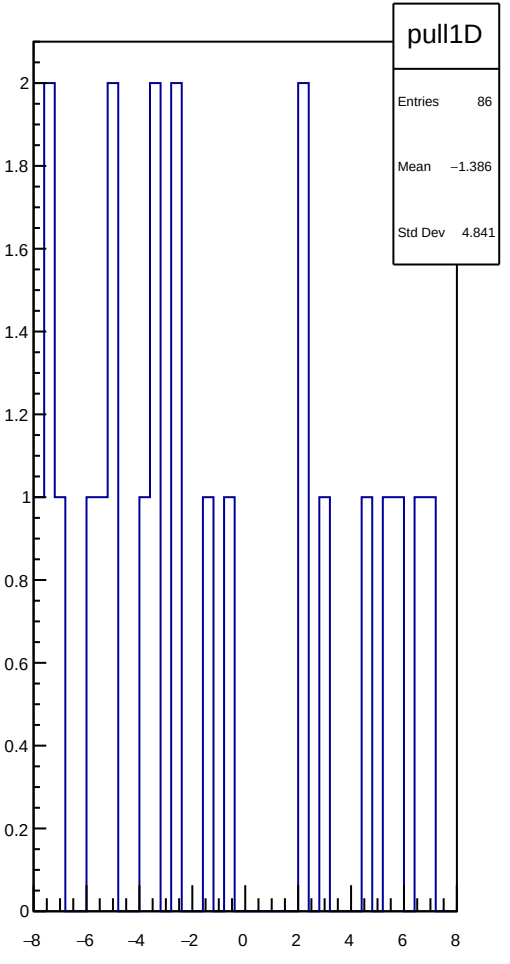

yield_bpm4aX_rms vs run
χ² / ndf 1.999e+04 / 85
p0 0.08058 ± 6.239e–05
0.12
0.11
0.1
0.09
0.08
0.07

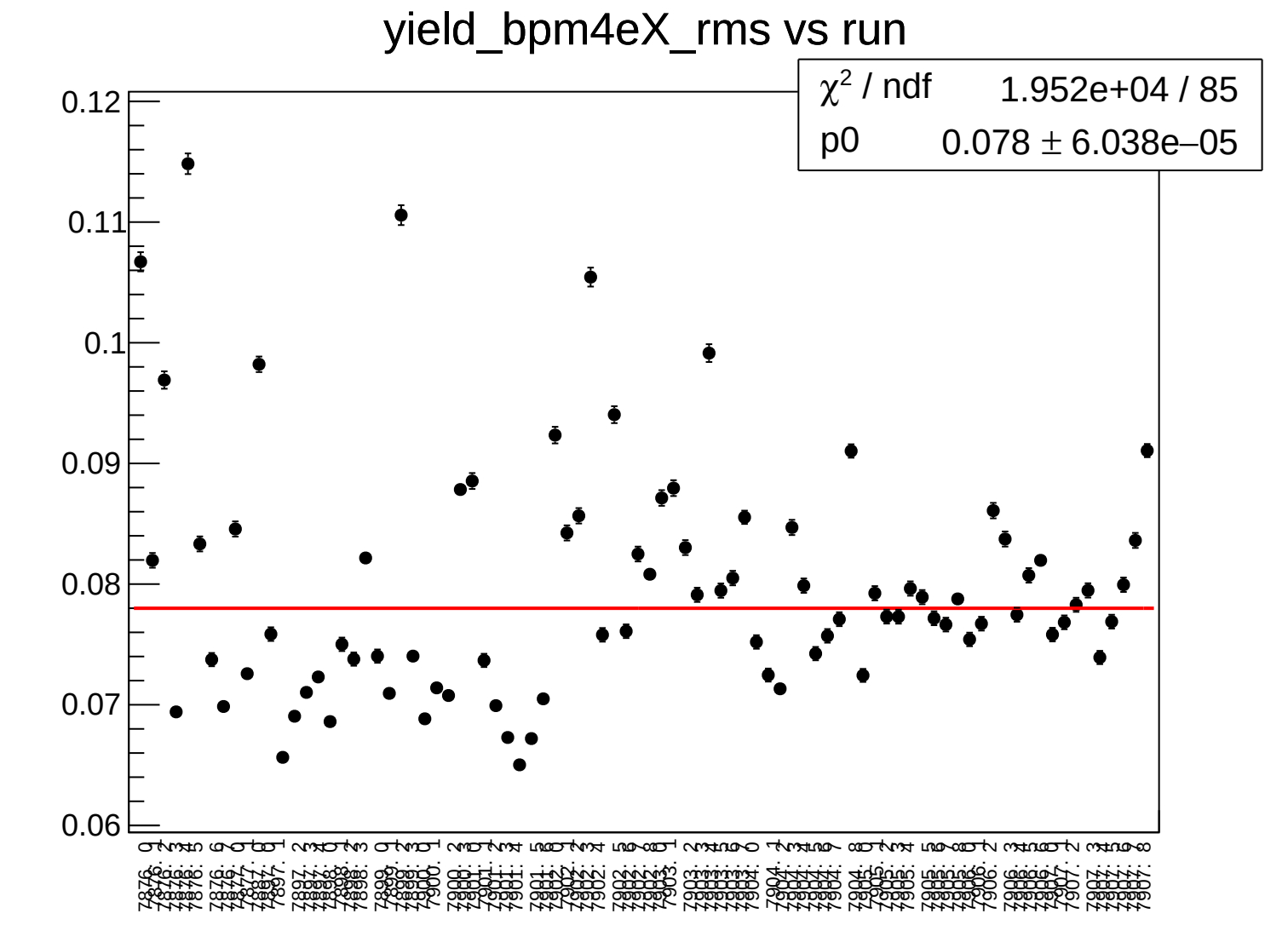

yield_bpm4aY_mean vs run
χ² / ndf 2.854e+05 / 85
p0 0.4728 ± 1.61e−05
pull
Entries 86
Mean 277.9
Std Dev 0

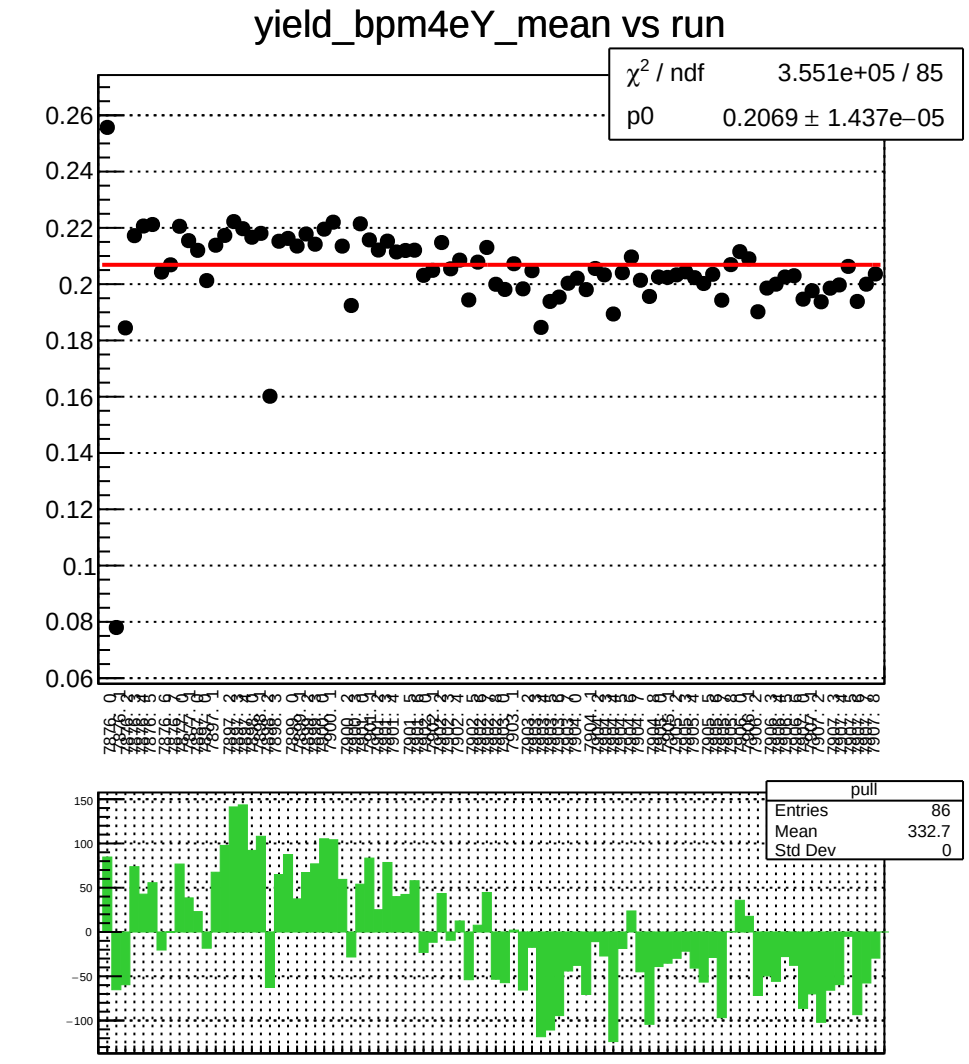

pull1D
Entries 86
Mean −0.882
Std Dev 4.205

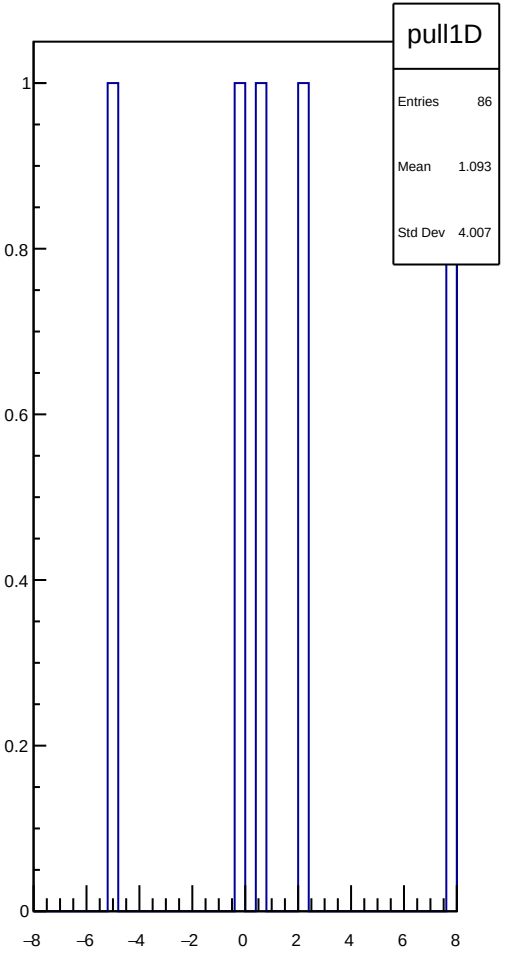

yield_bpm4aY_rms vs run
χ² / ndf 1.416e+05 / 85
p0 0.01416 ± 1.139e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

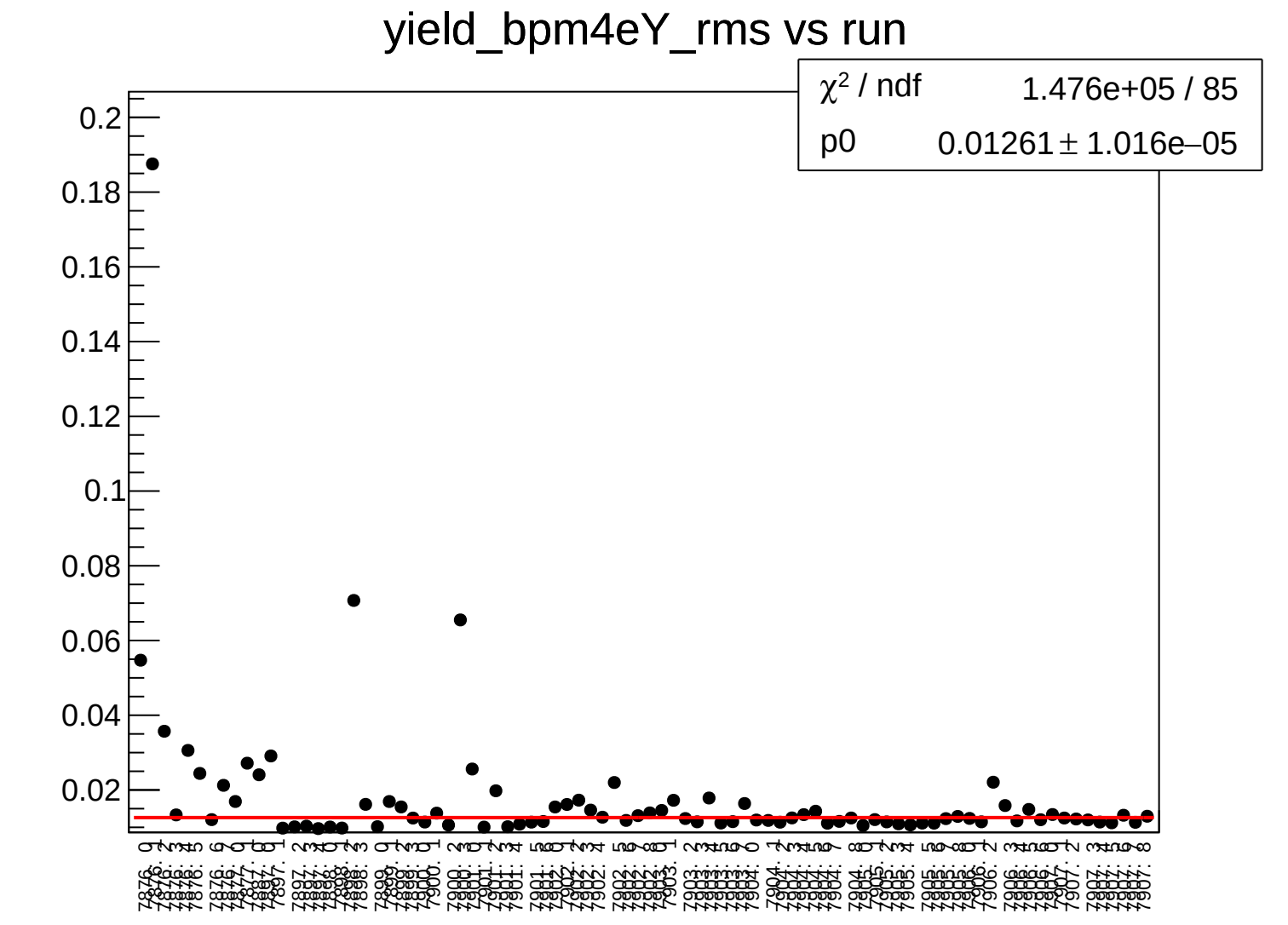

yield_bpm4eX_mean vs run
χ² / ndf 7.094e+04 / 85
p0 −0.1533 ± 8.54e−05
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
pull
Entries 86
Mean 605
Std Dev 0
80
60
40
20
0
−20
−40
−60

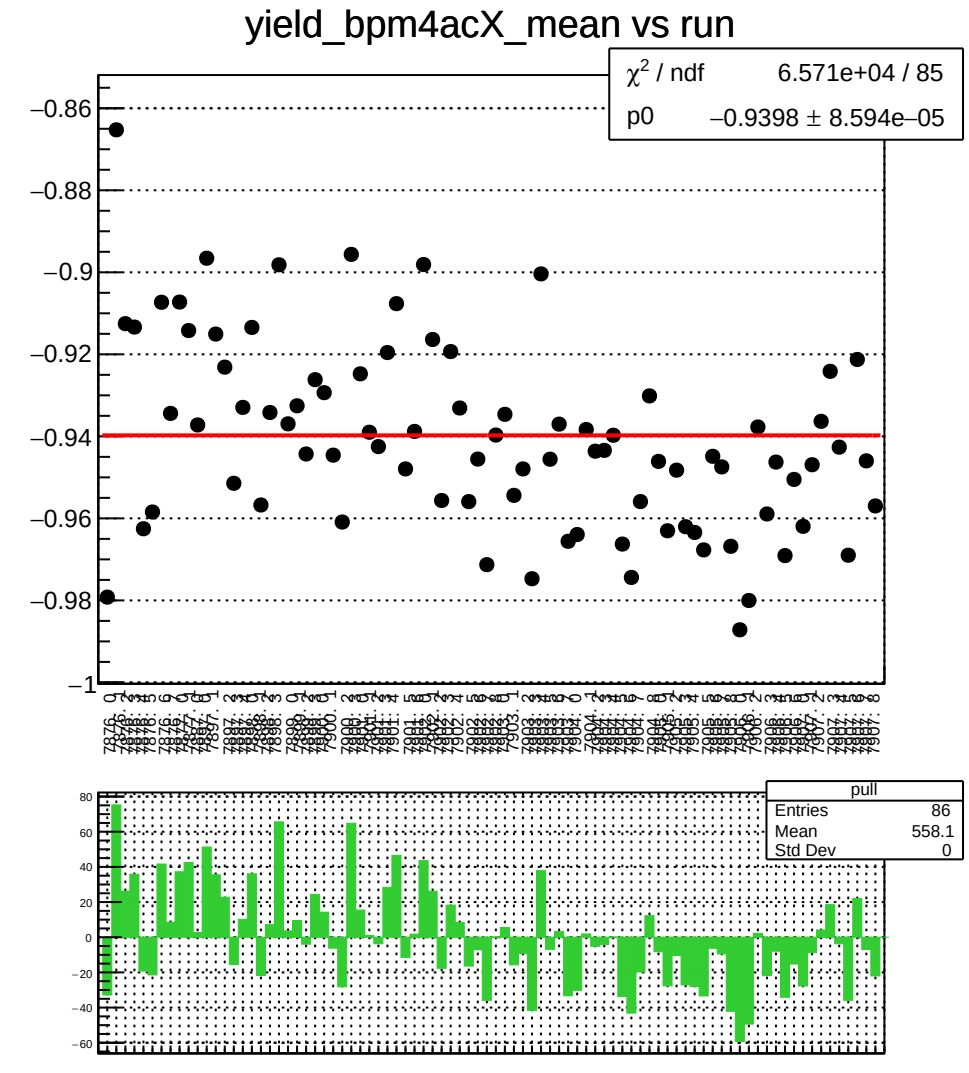

pull1D
Entries 86
Mean −1.386
Std Dev 4.841
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

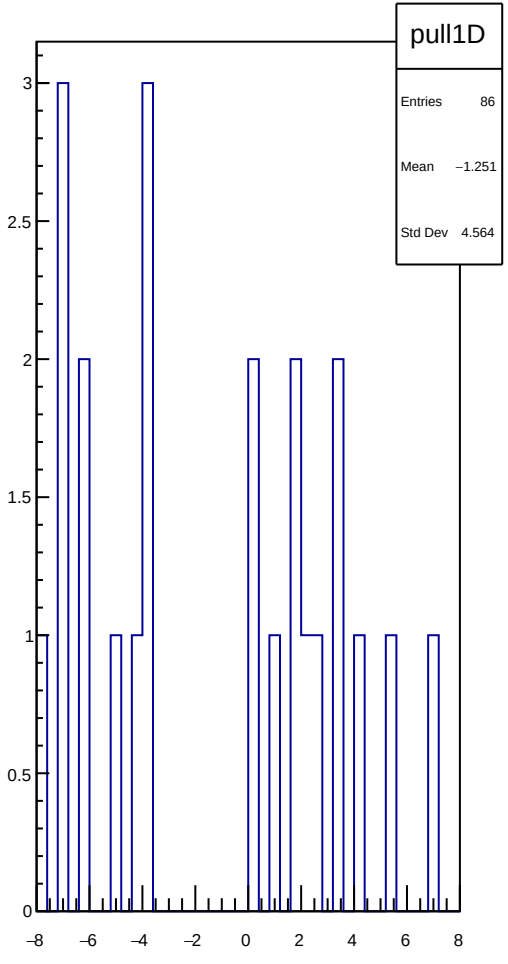

yield_bpm4eX_rms vs run
χ² / ndf 1.952e+04 / 85
p0 0.078 ± 6.038e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06

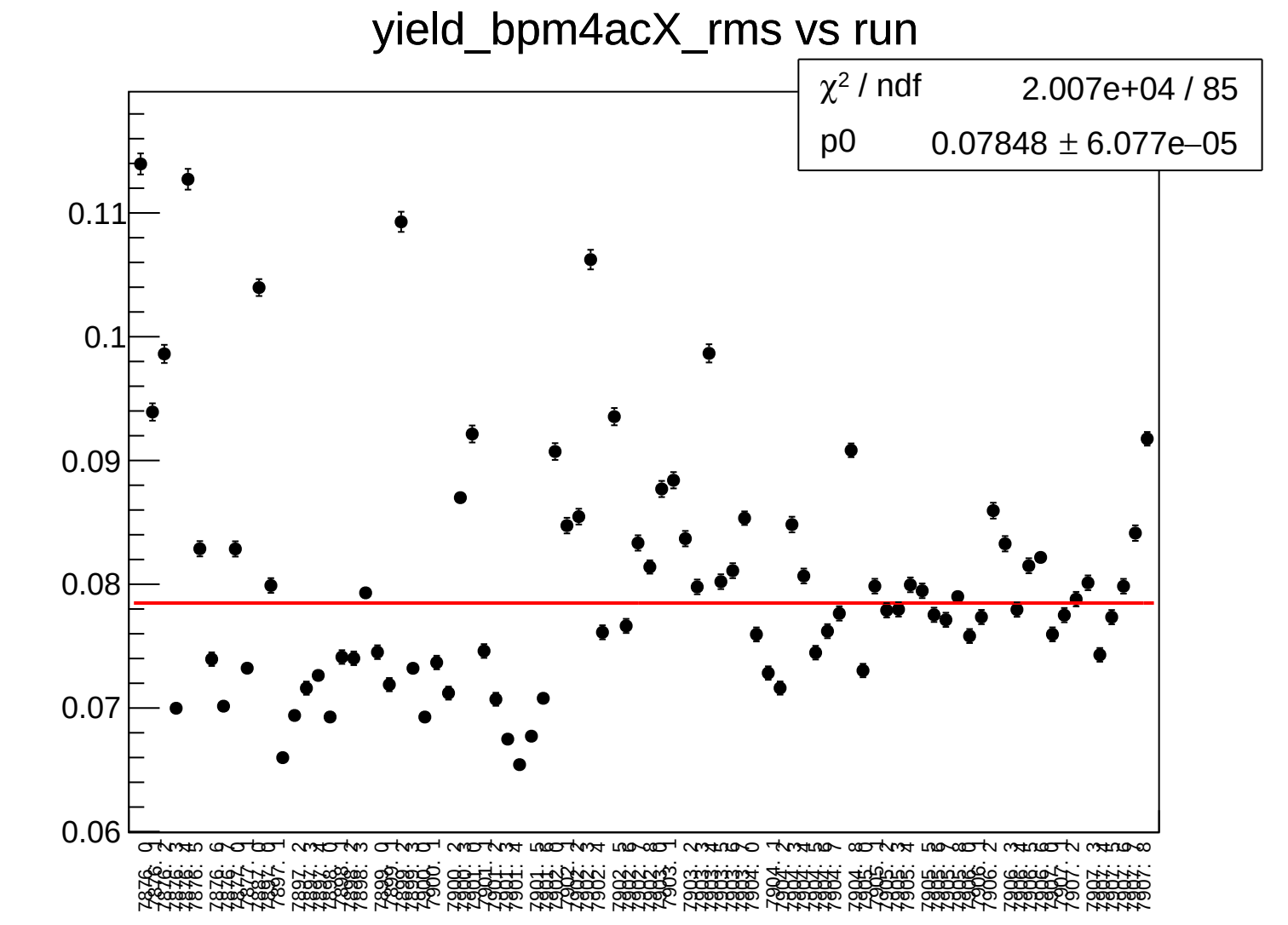

yield_bpm4eY_mean vs run
χ² / ndf 3.551e+05 / 85
p0 0.2069 ± 1.437e−05
pull
Entries 86
Mean 332.7
Std Dev 0

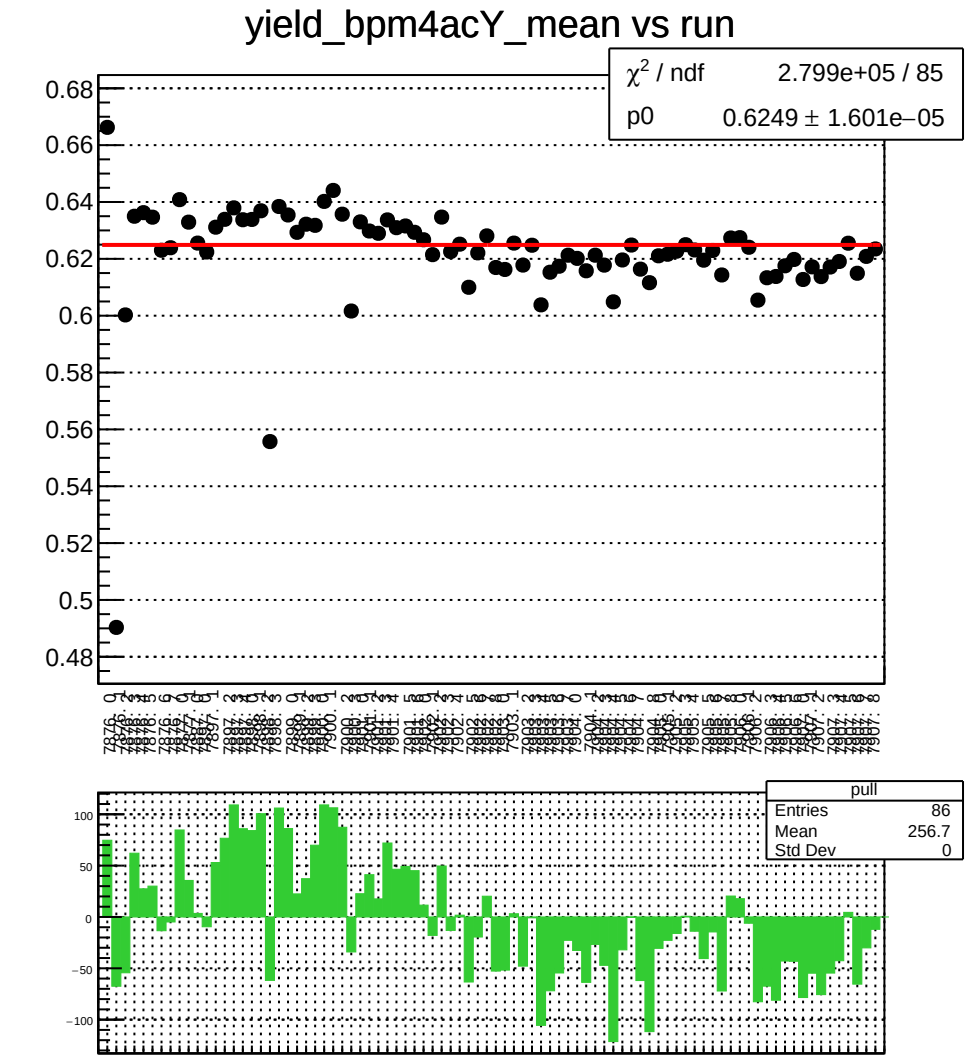

pull1D
Entries 86
Mean 1.093
Std Dev 4.007

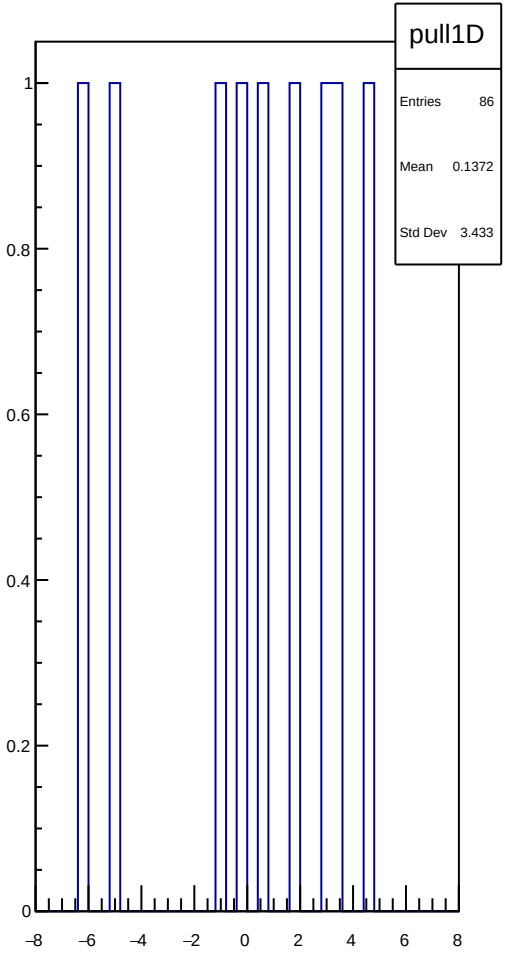

yield_bpm4eY_rms vs run
χ² / ndf 1.476e+05 / 85
p0 0.01261 ± 1.016e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

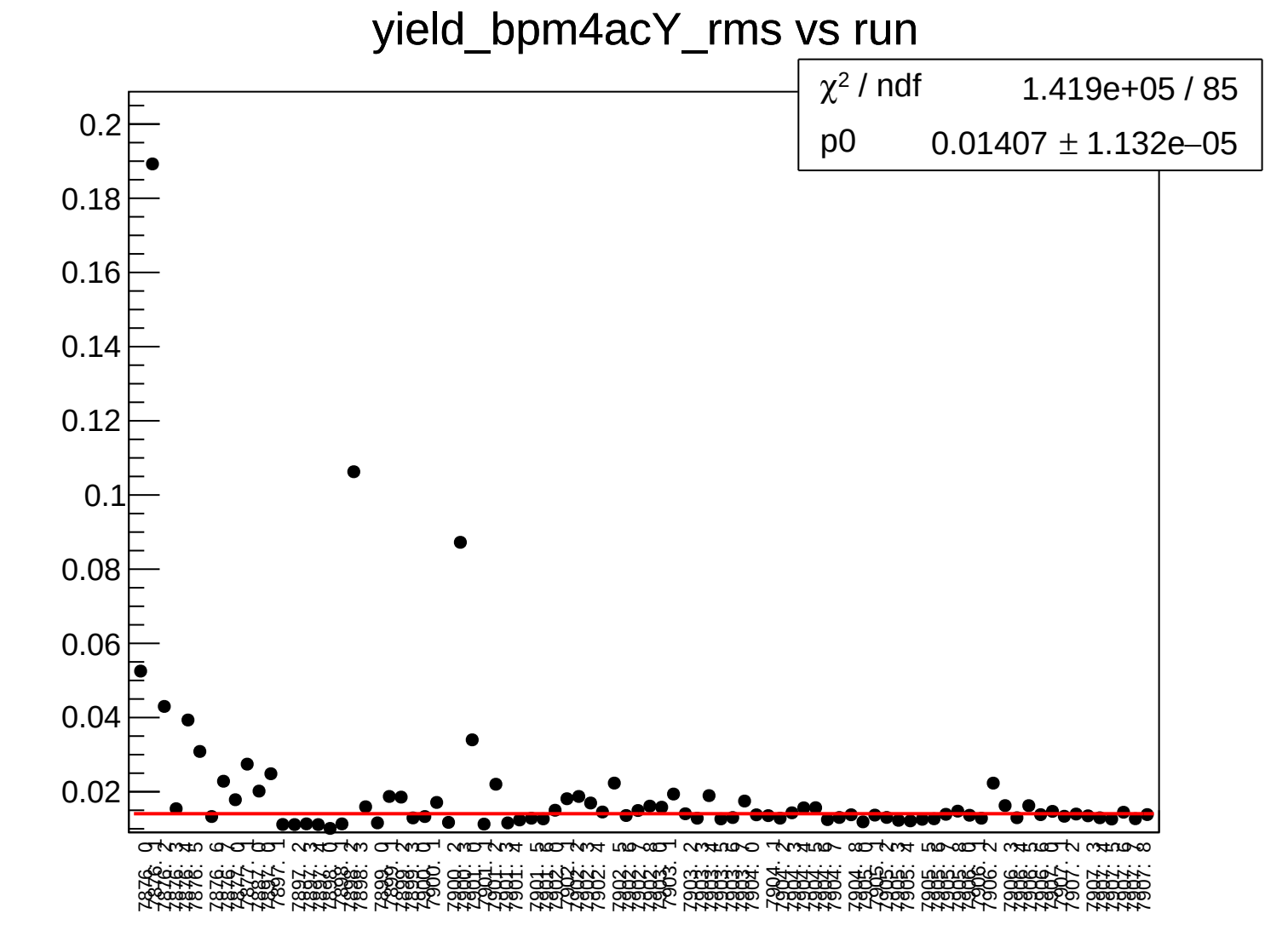

yield_bpm4acX_mean vs run
χ² / ndf 6.571e+04 / 85
p0 −0.9398 ± 8.594e−05
pull
Entries 86
Mean 558.1
Std Dev 0

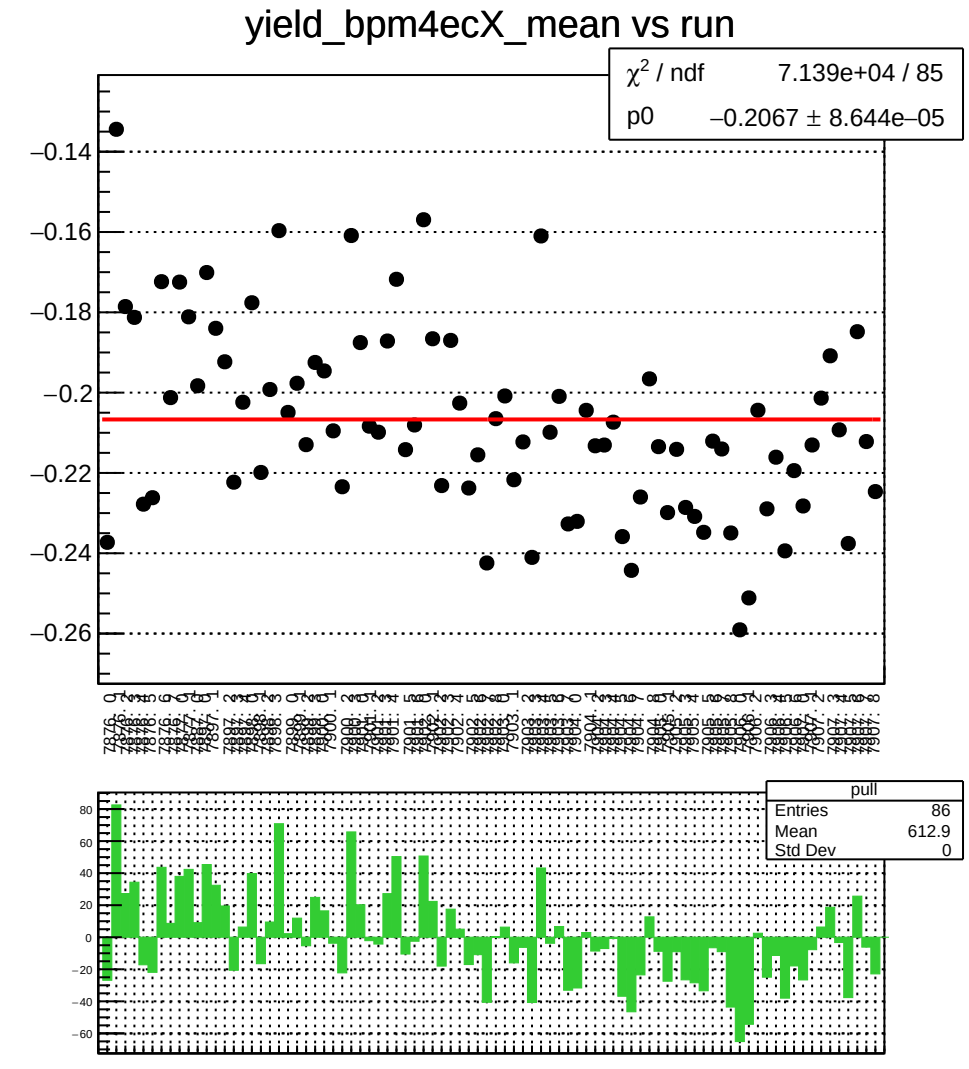

pull1D
Entries 86
Mean −1.251
Std Dev 4.564

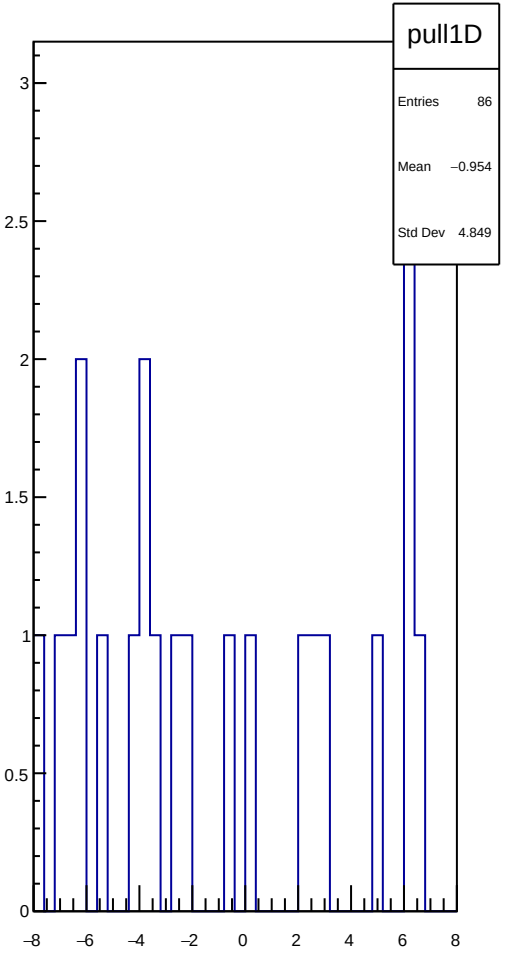

yield_bpm4acX_rms vs run
χ² / ndf 2.007e+04 / 85
p0 0.07848 ± 6.077e–05
0.11
0.1
0.09
0.08
0.07
0.06

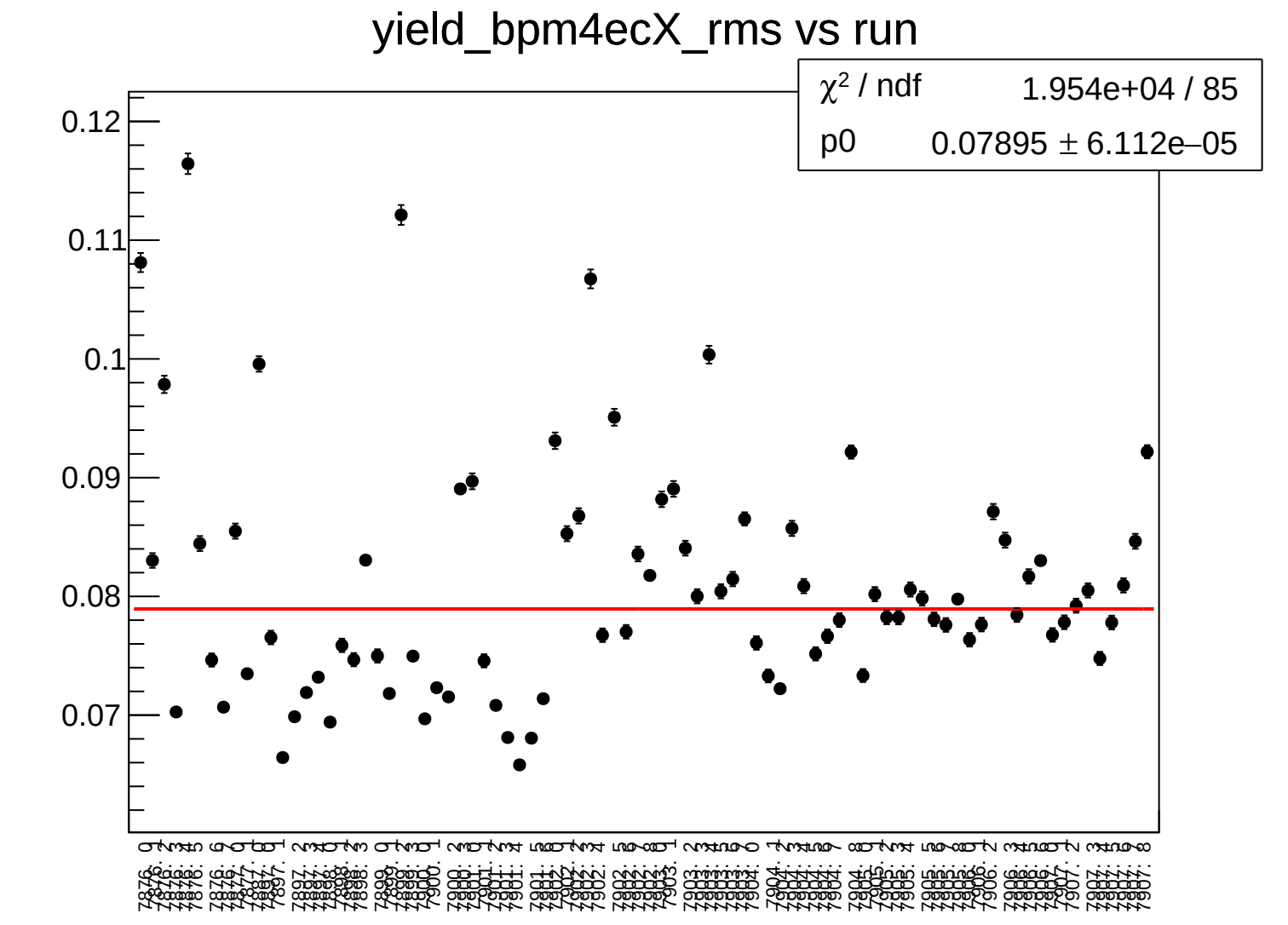

yield_bpm4acY_mean vs run
χ² / ndf 2.799e+05 / 85
p0 0.6249 ± 1.601e−05
pull
Entries 86
Mean 256.7
Std Dev 0

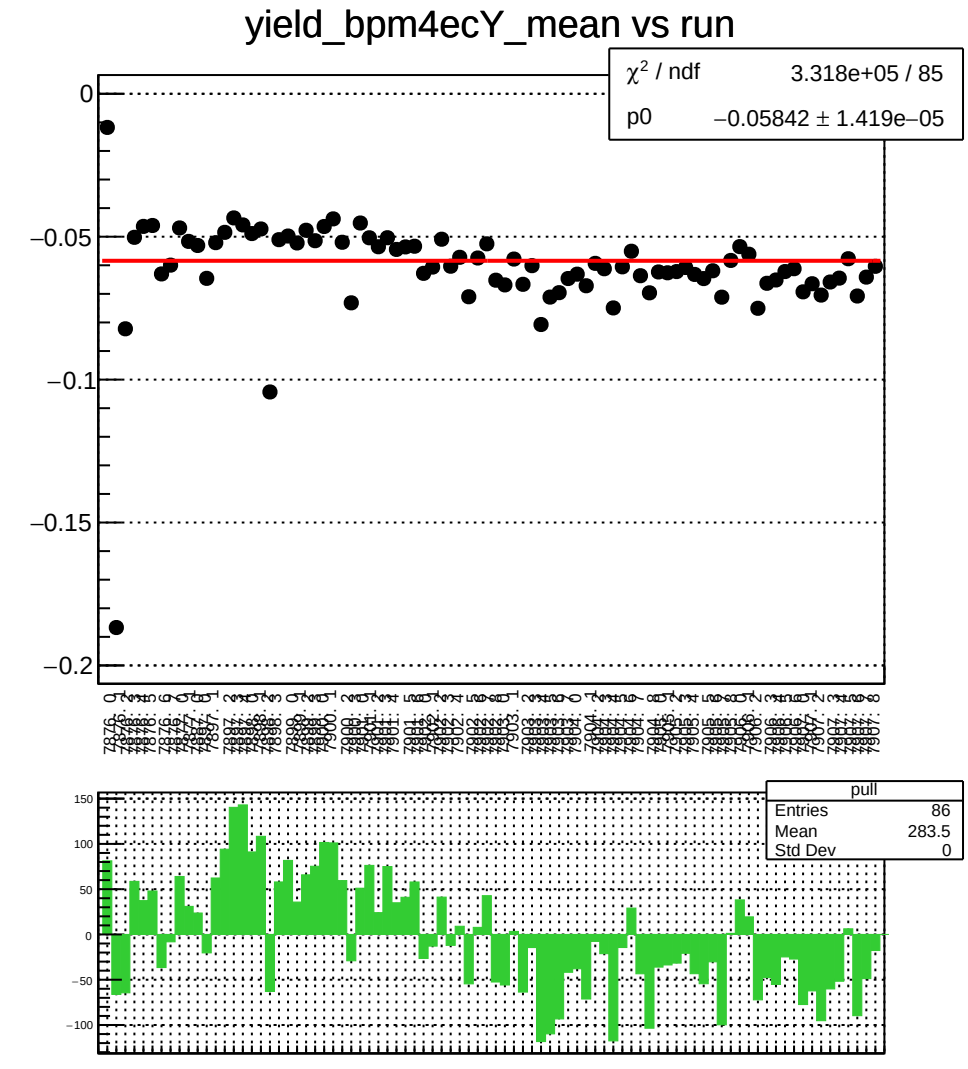

pull1D
Entries 86
Mean 0.1372
Std Dev 3.433

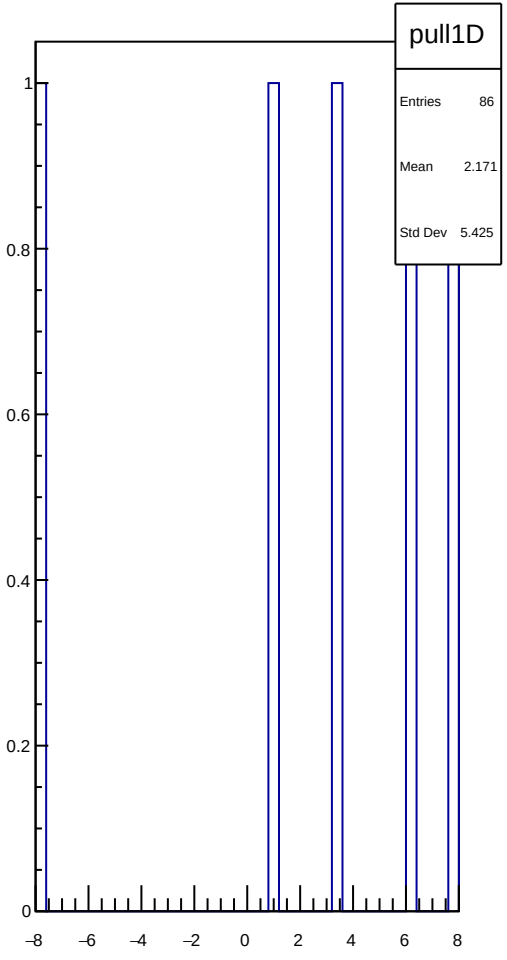

yield_bpm4acY_rms vs run
χ² / ndf 1.419e+05 / 85
p0 0.01407 ± 1.132e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

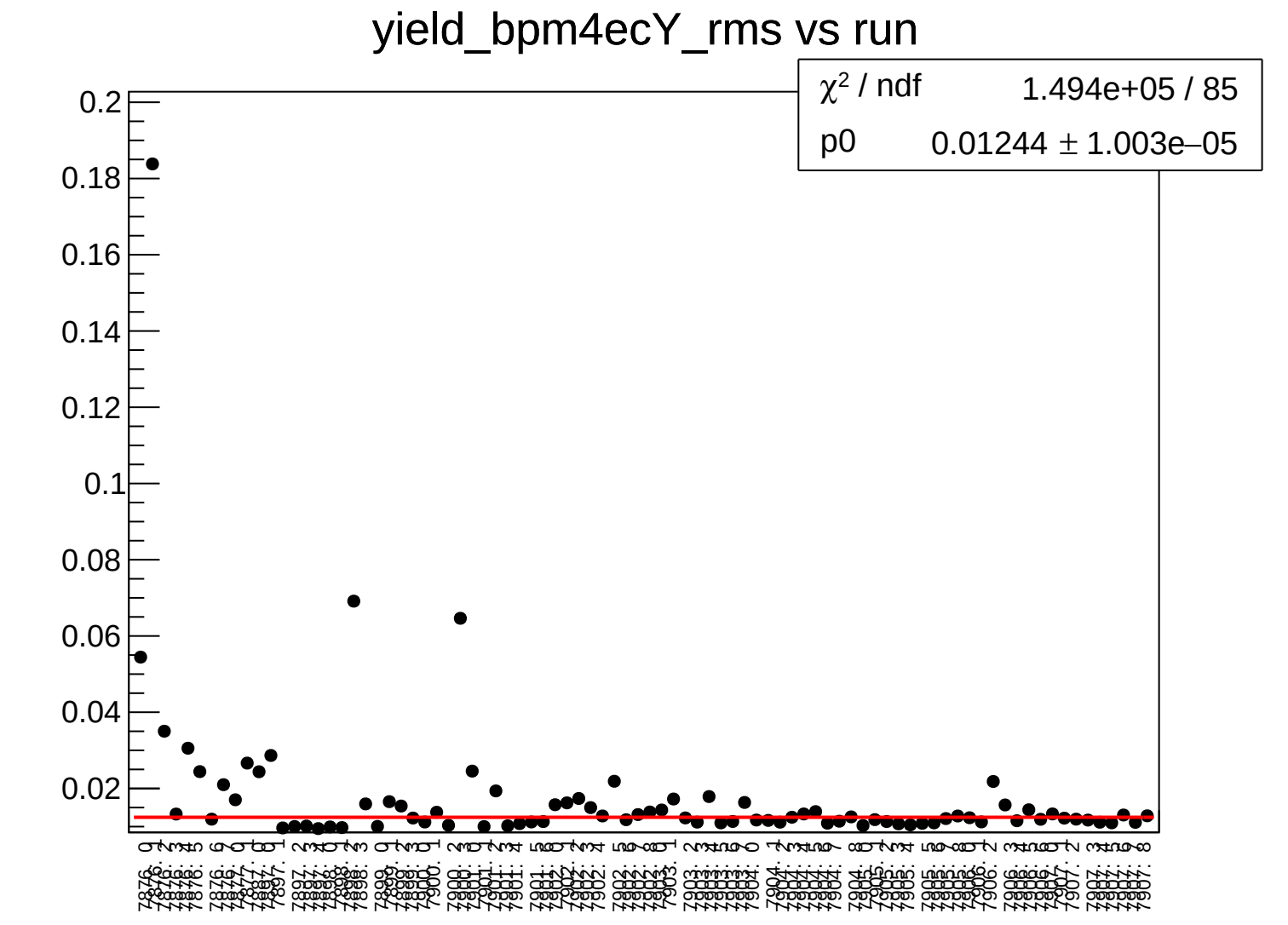

yield_bpm4ecX_mean vs run
χ² / ndf 7.139e+04 / 85
p0 −0.2067 ± 8.644e−05
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
pull
Entries 86
Mean 612.9
Std Dev 0
80
60
40
20
0
−20
−40
−60

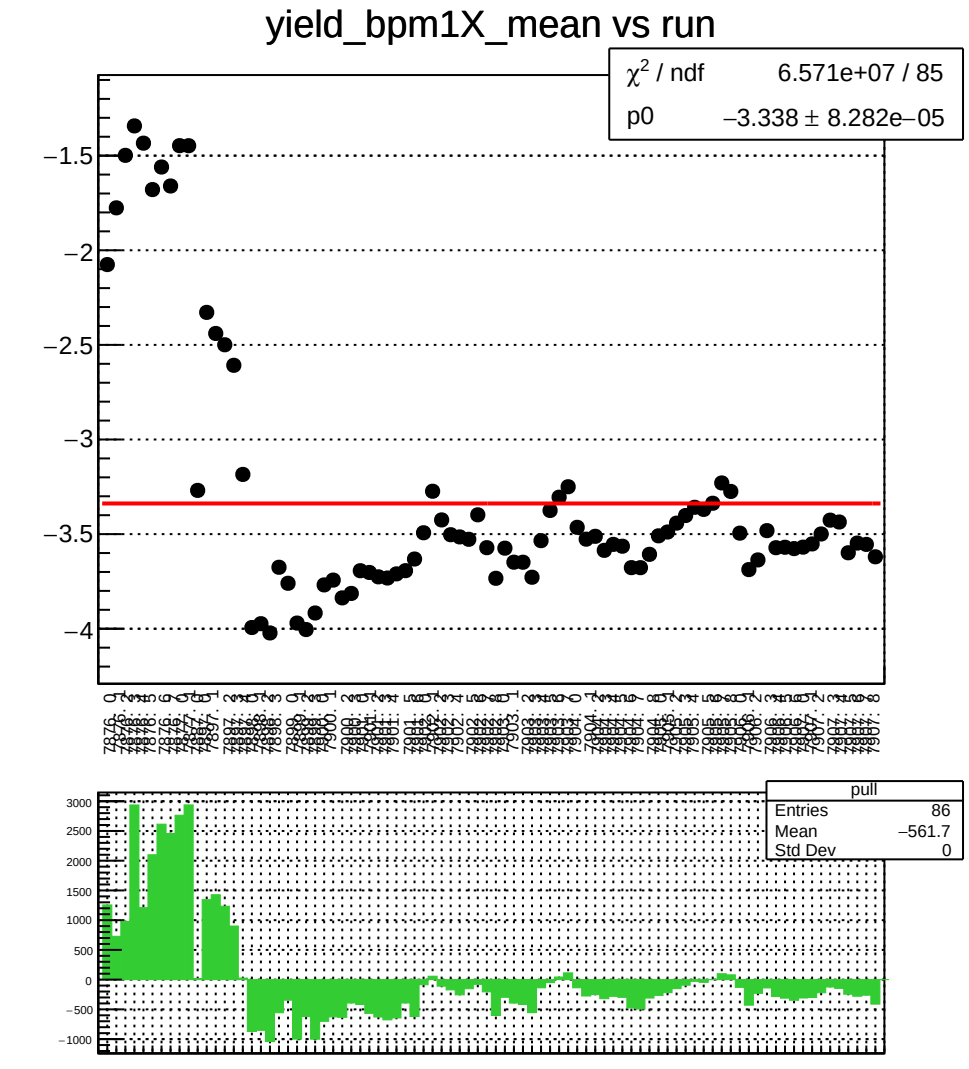

pull1D
Entries 86
Mean −0.954
Std Dev 4.849
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

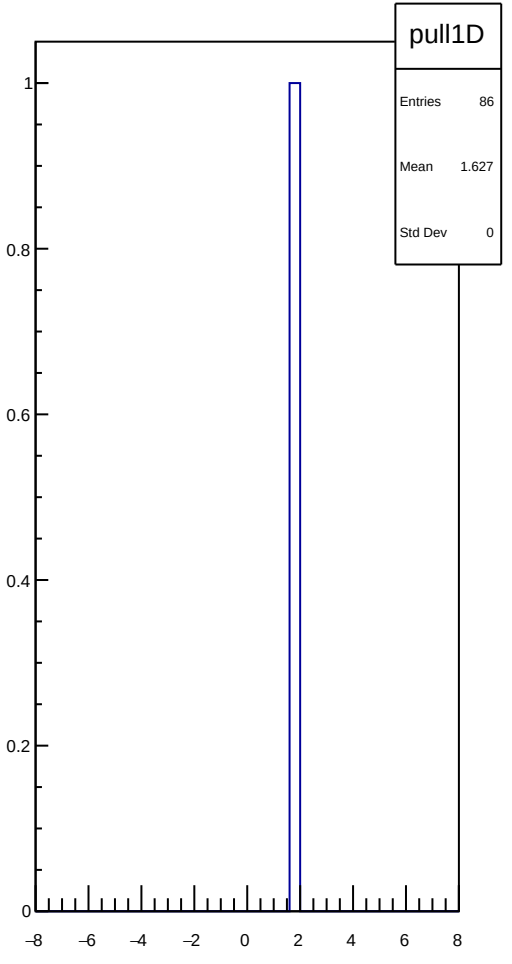

yield_bpm4ecX_rms vs run
χ² / ndf 1.954e+04 / 85
p0 0.07895 ± 6.112e–05
0.12
0.11
0.1
0.09
0.08
0.07

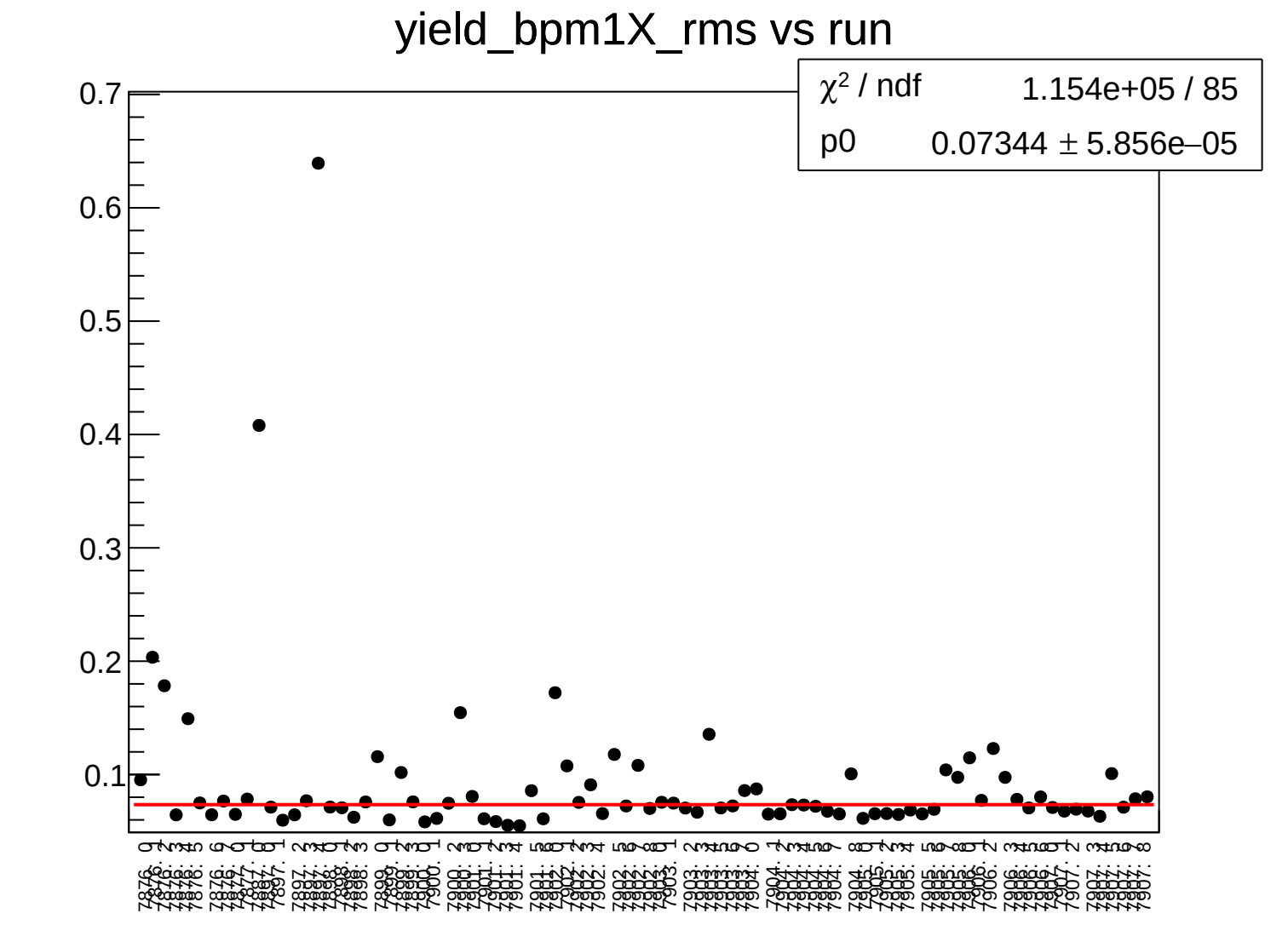

yield_bpm4ecY_mean vs run
χ² / ndf 3.318e+05 / 85
p0 −0.05842 ± 1.419e−05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 86
Mean 283.5
Std Dev 0
150
100
50
0
−50
−100

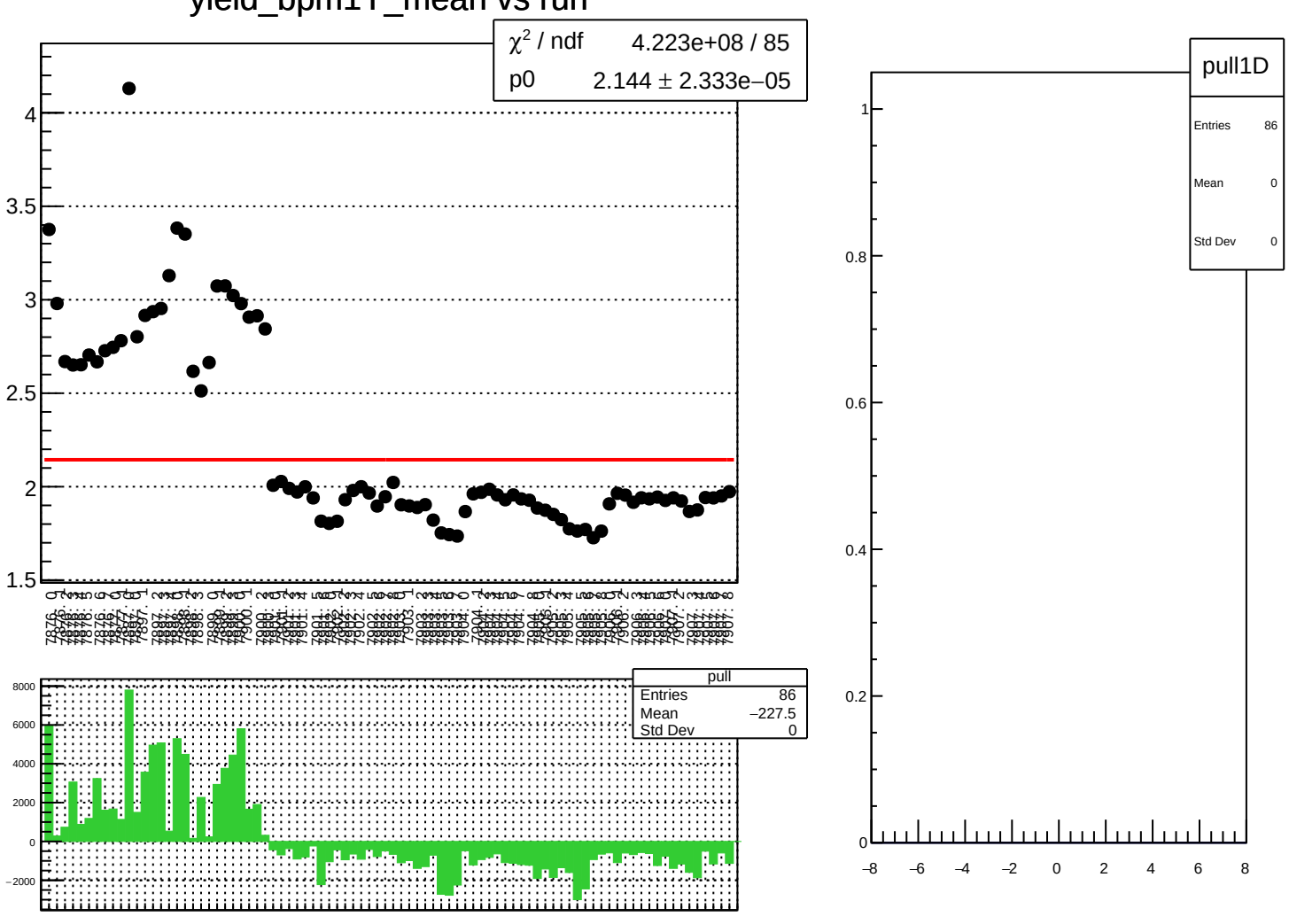

pull1D
Entries 86
Mean 2.171
Std Dev 5.425
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

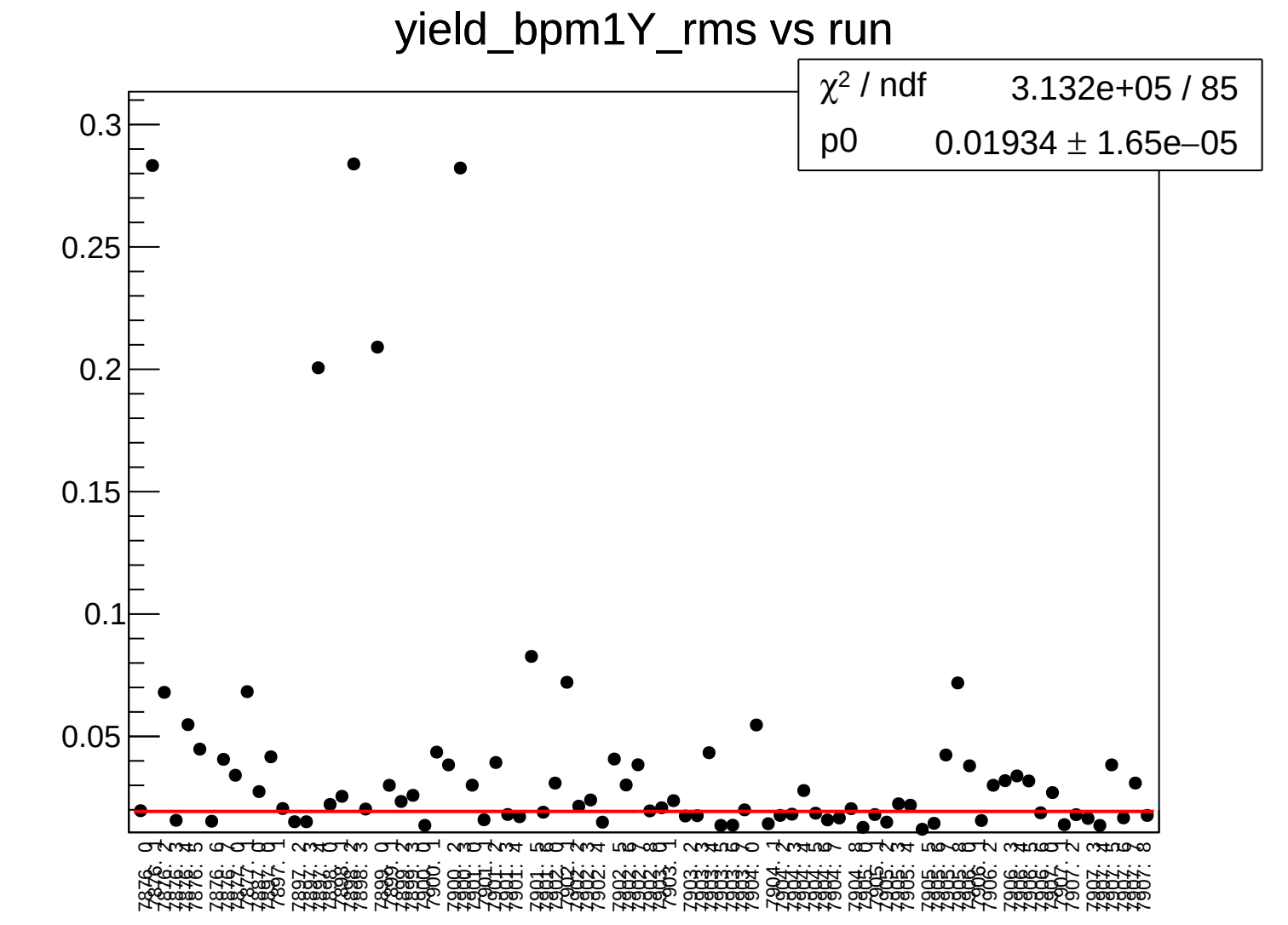

yield_bpm4ecY_rms vs run
χ² / ndf 1.494e+05 / 85
p0 0.01244 ± 1.003e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

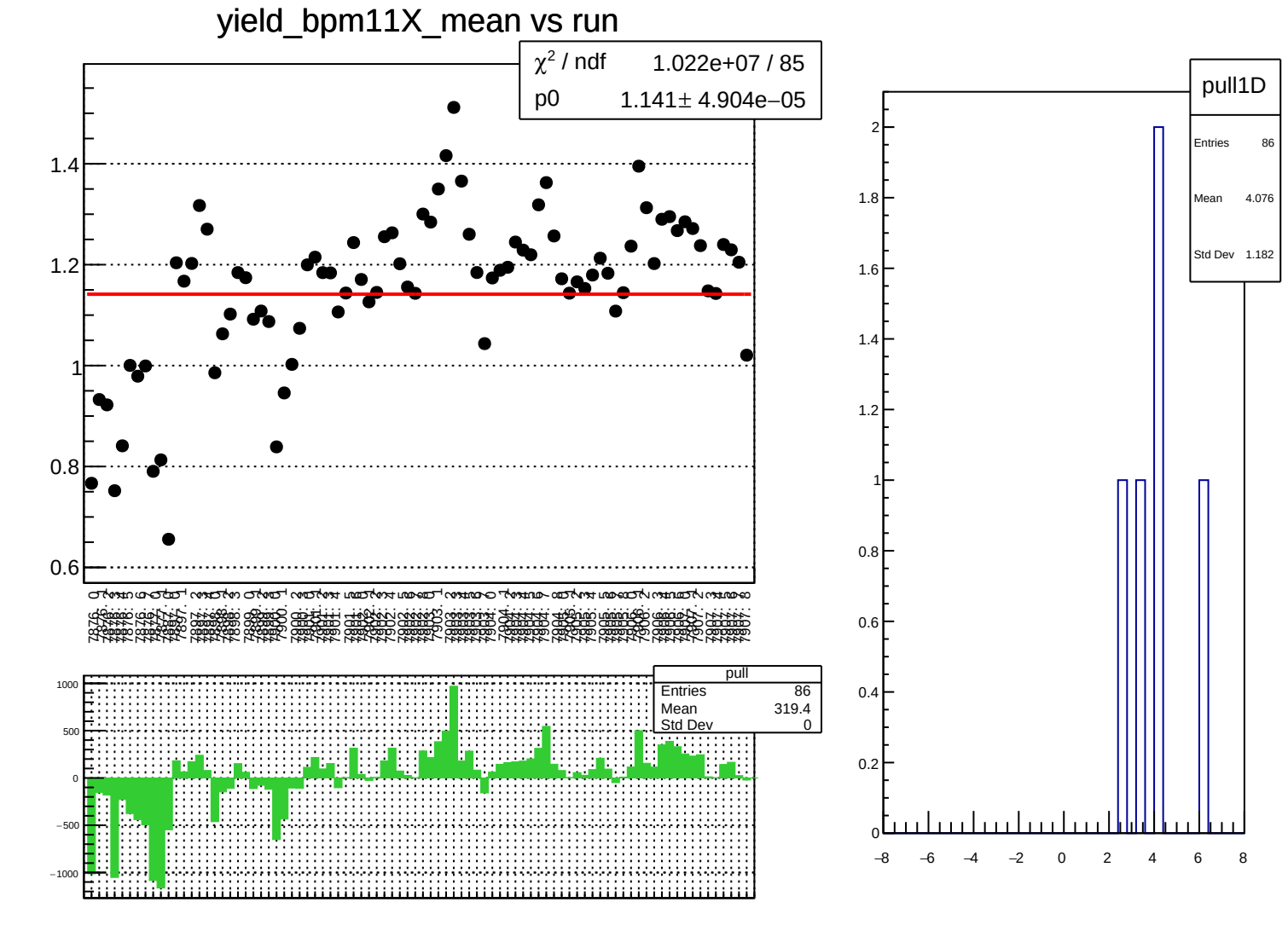

yield_bpm1X_mean vs run
χ² / ndf 6.571e+07 / 85
p0 −3.338 ± 8.282e−05
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 86
Mean −561.7
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000

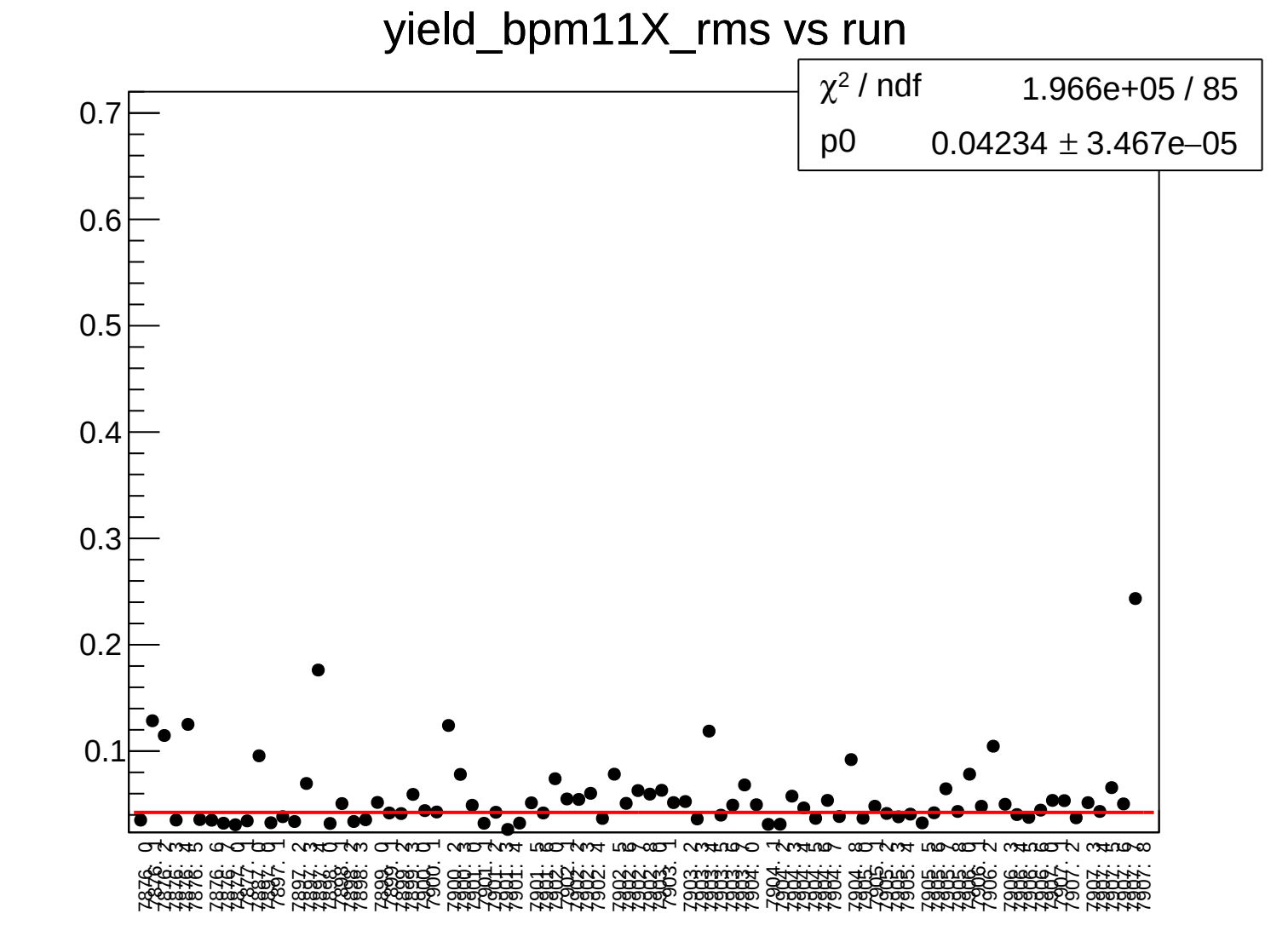

pull1D
Entries 86
Mean 1.627
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

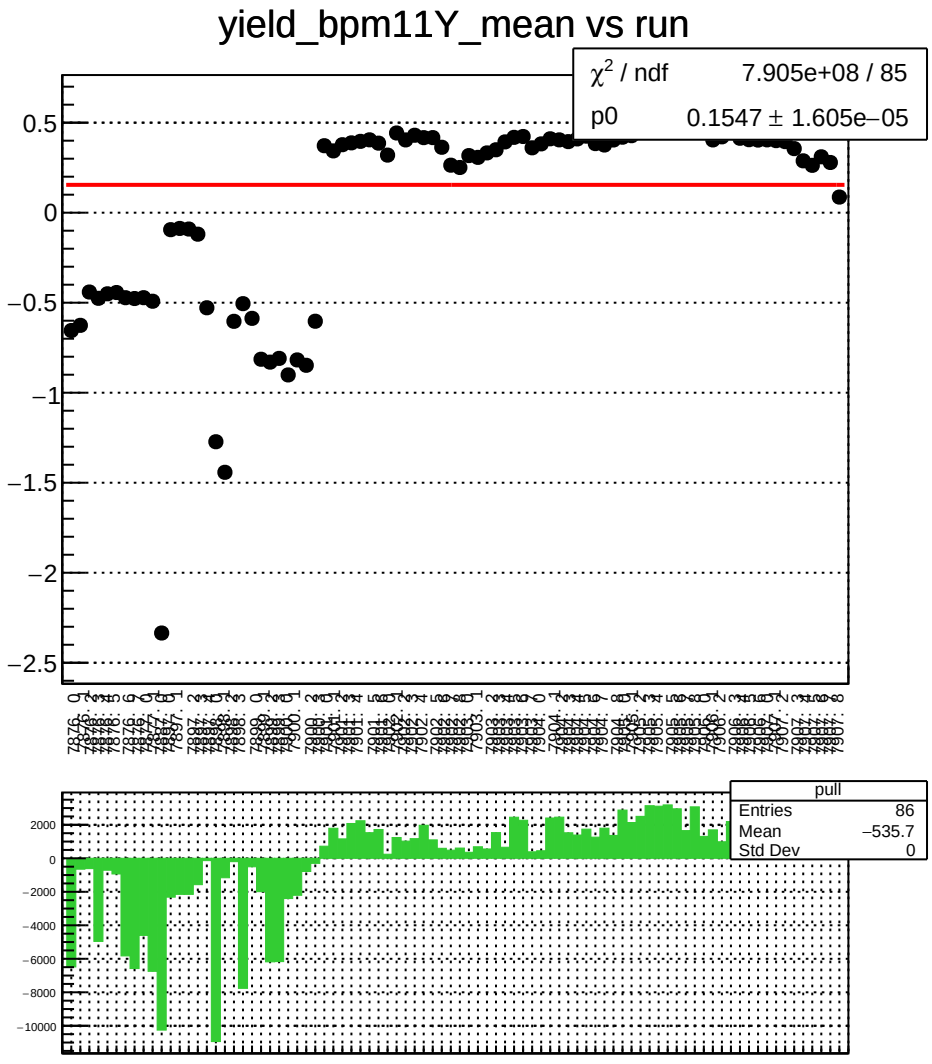

yield_bpm1X_rms vs run
χ² / ndf 1.154e+05 / 85
p0 0.07344 ± 5.856e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

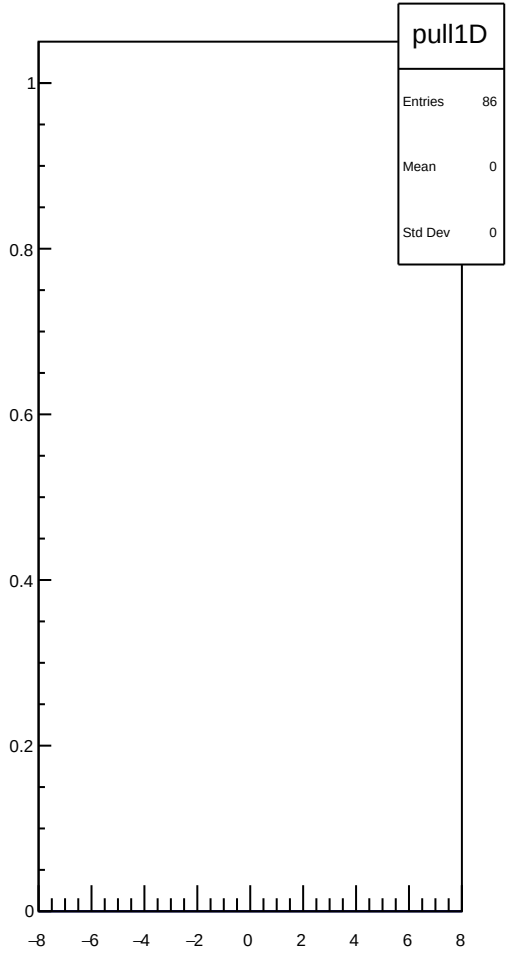

yield_bpm1Y_mean vs run
χ² / ndf 4.223e+08 / 85
p0 2.144 ± 2.333e−05
pull
Entries 86
Mean −227.5
Std Dev 0
pull1D
Entries 86
Mean 0
Std Dev 0

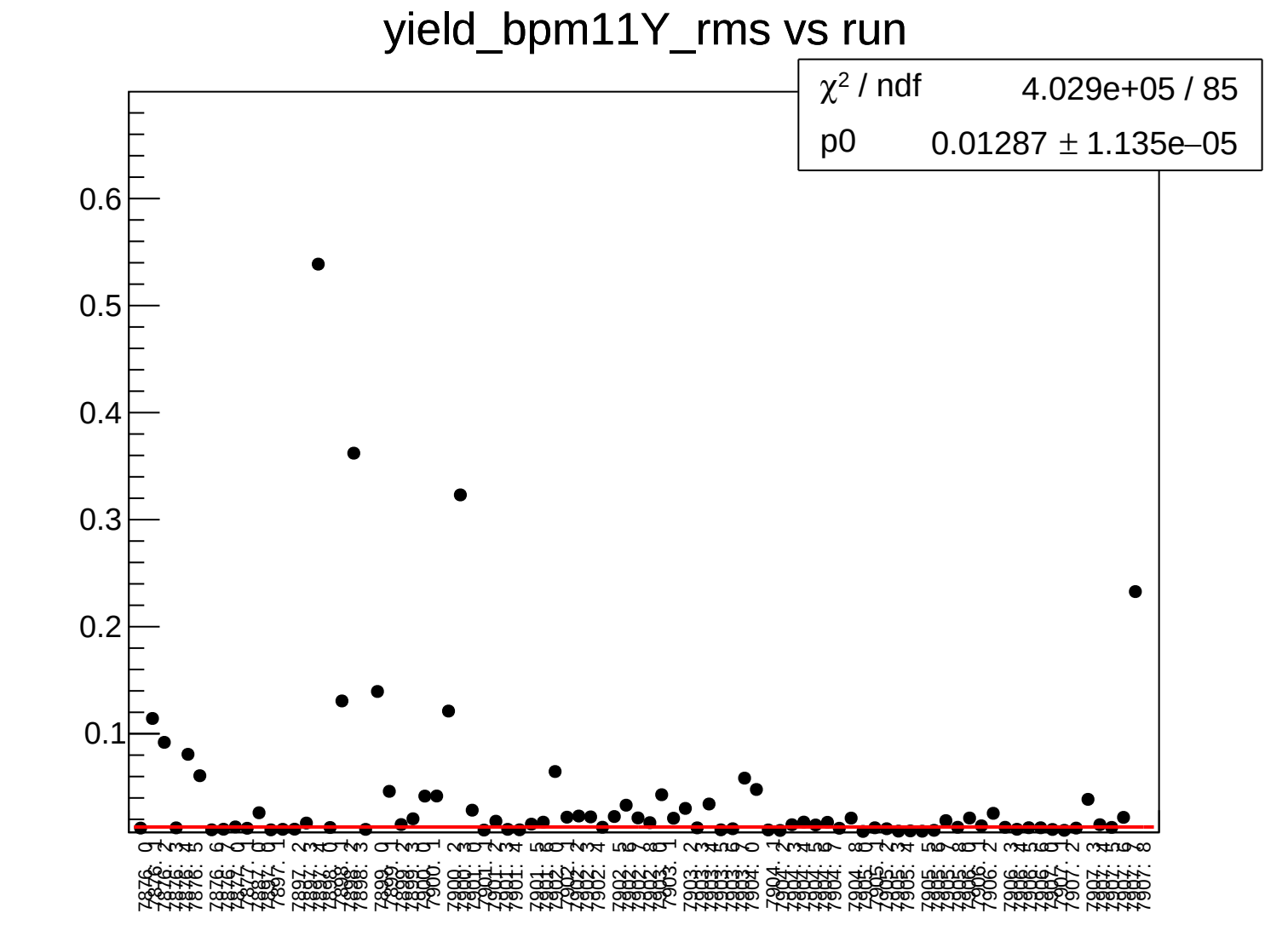

yield_bpm1Y_rms vs run
χ² / ndf 3.132e+05 / 85
p0 0.01934 ± 1.65e−05
0.3
0.25
0.2
0.15
0.1
0.05

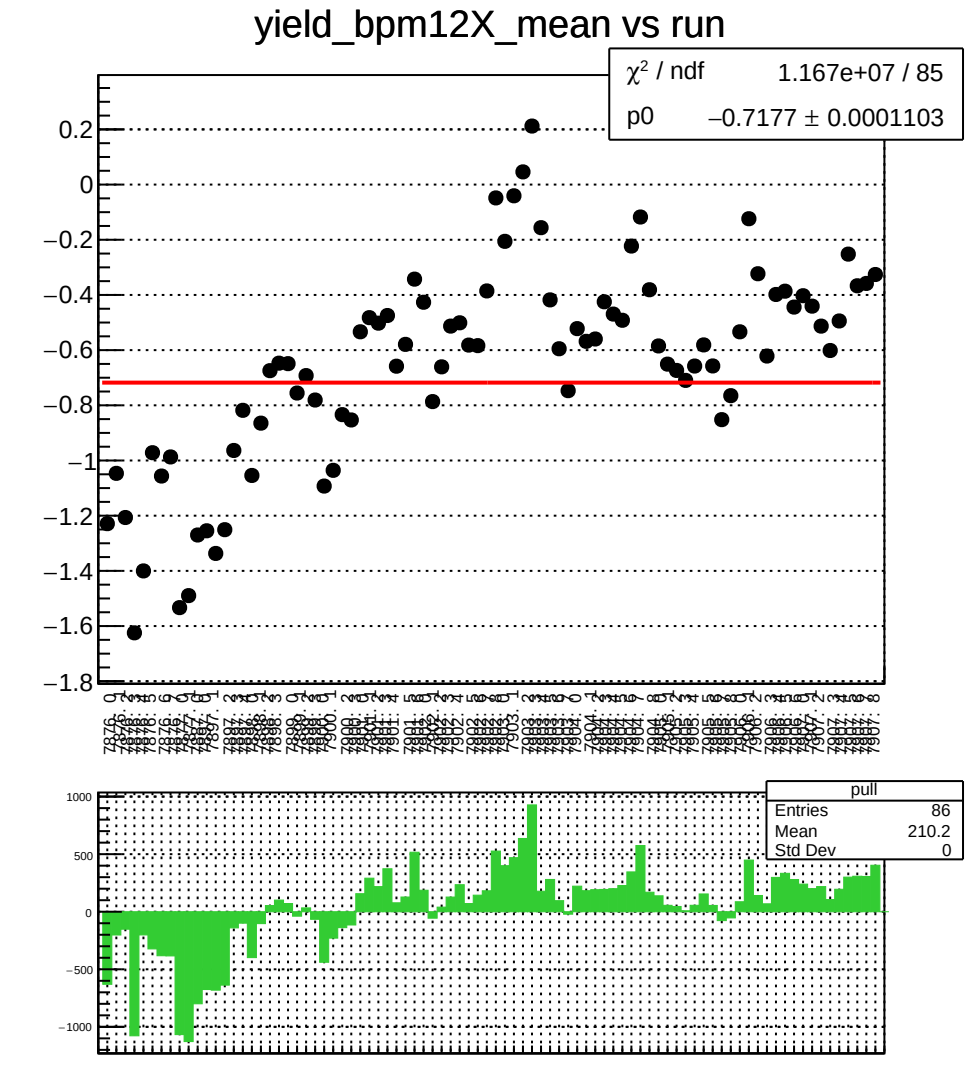

yield_bpm11X_mean vs run
χ² / ndf 1.022e+07 / 85
p0 1.141± 4.904e−05
pull
Entries 86
Mean 319.4
Std Dev 0
pull1D
Entries 86
Mean 4.076
Std Dev 1.182

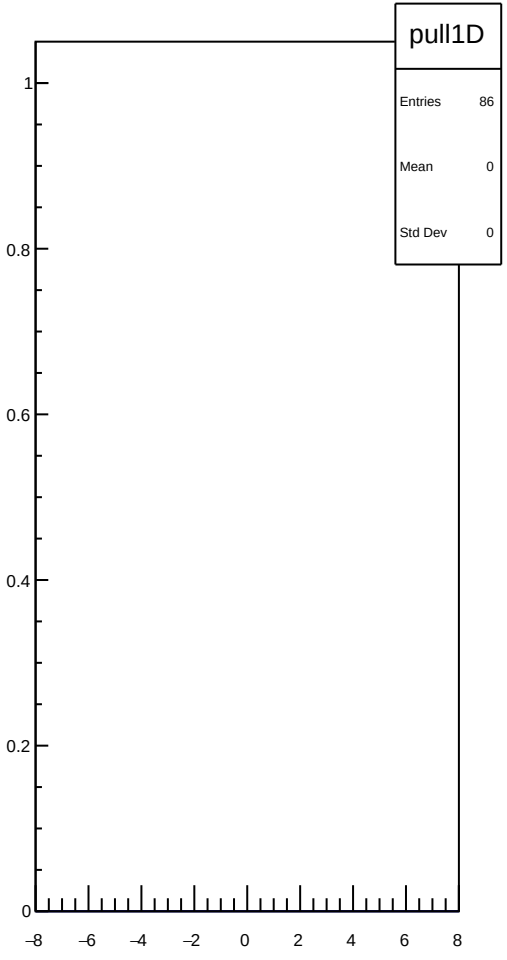

yield_bpm11X_rms vs run
χ² / ndf 1.966e+05 / 85
p0 0.04234 ± 3.467e–05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

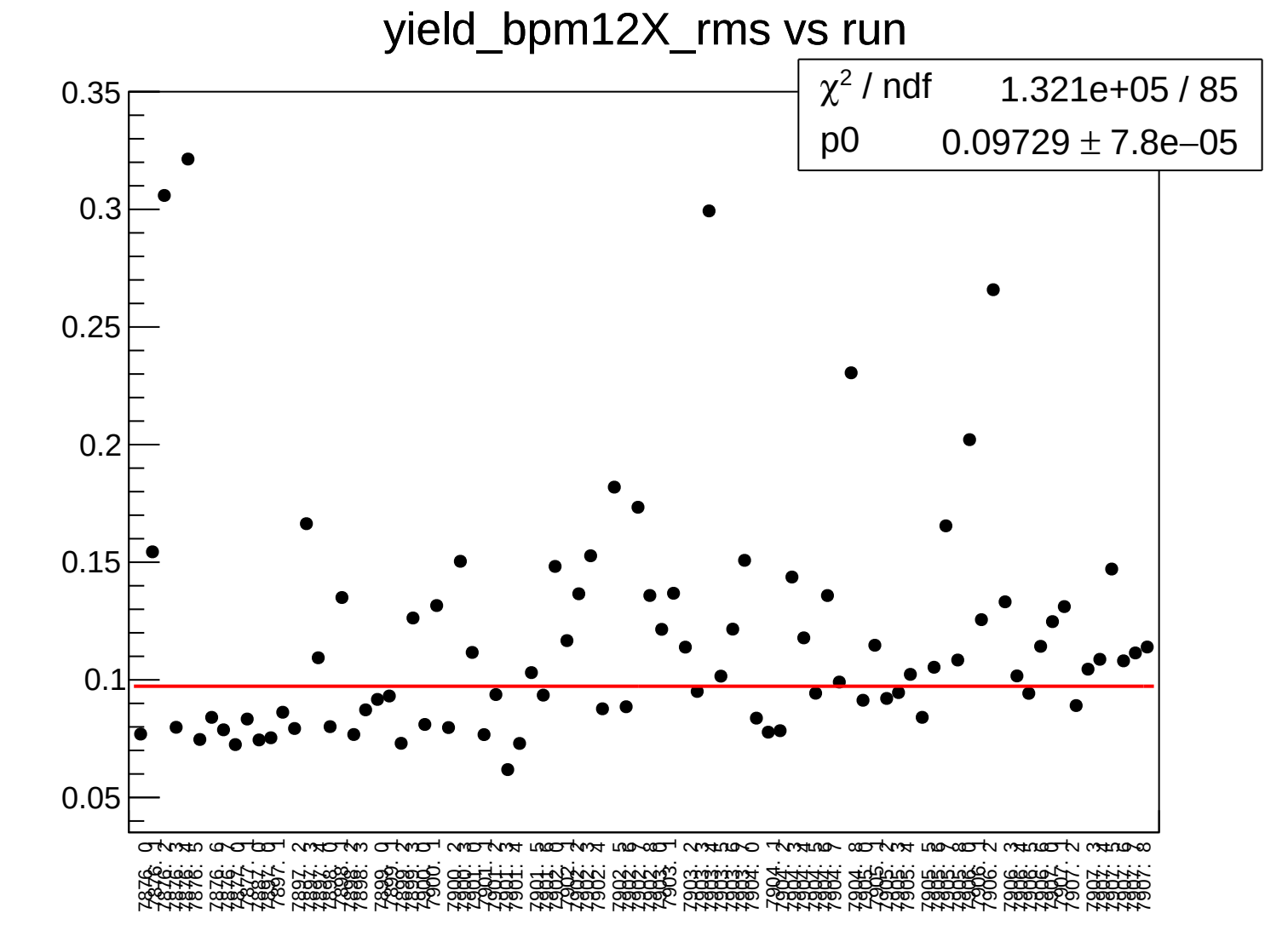

yield_bpm11Y_mean vs run
χ² / ndf 7.905e+08 / 85
p0 0.1547 ± 1.605e−05
pull
Entries 86
Mean −535.7
Std Dev 0

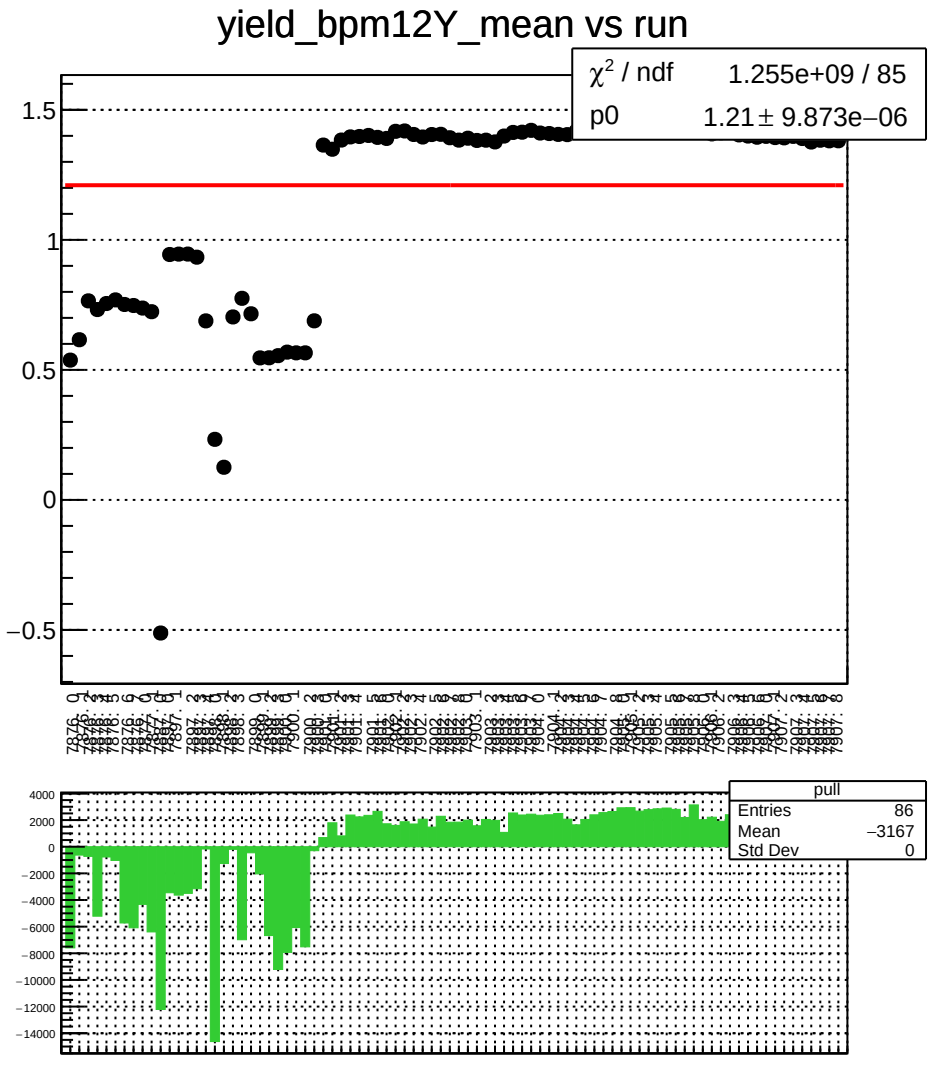

pull1D
Entries 86
Mean 0
Std Dev 0

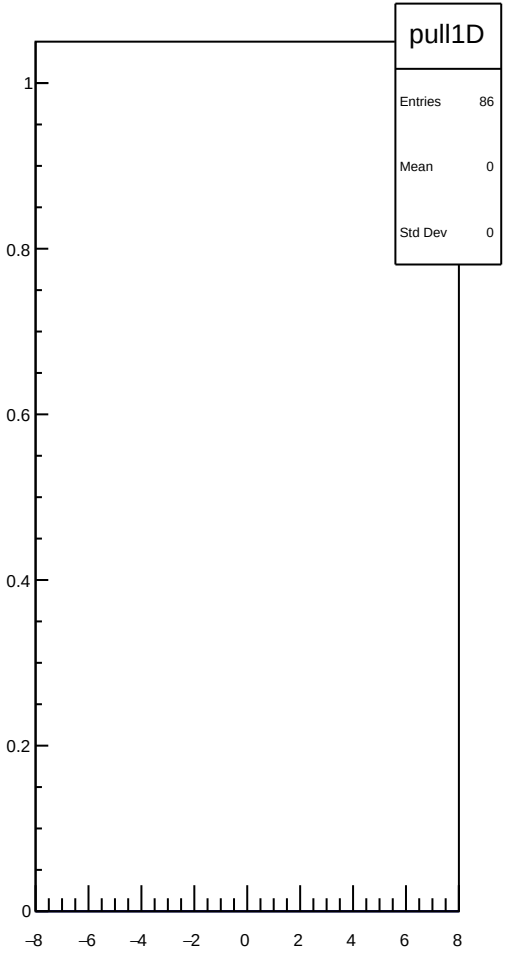

yield_bpm11Y_rms vs run
χ² / ndf 4.029e+05 / 85
p0 0.01287 ± 1.135e−05
0.6
0.5
0.4
0.3
0.2
0.1

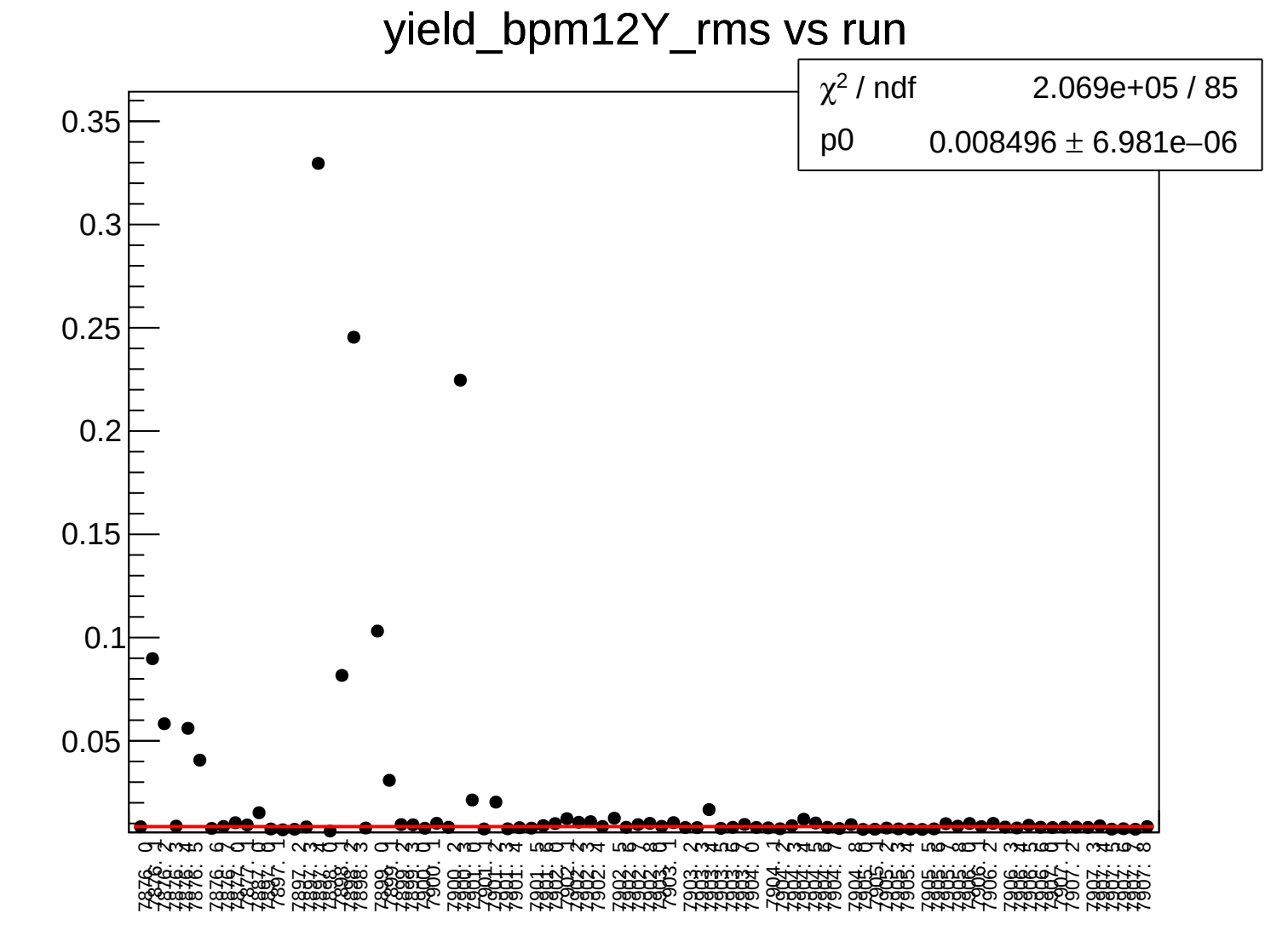

yield_bpm12X_mean vs run
χ² / ndf 1.167e+07 / 85
p0 −0.7177 ± 0.0001103
pull
Entries 86
Mean 210.2
Std Dev 0

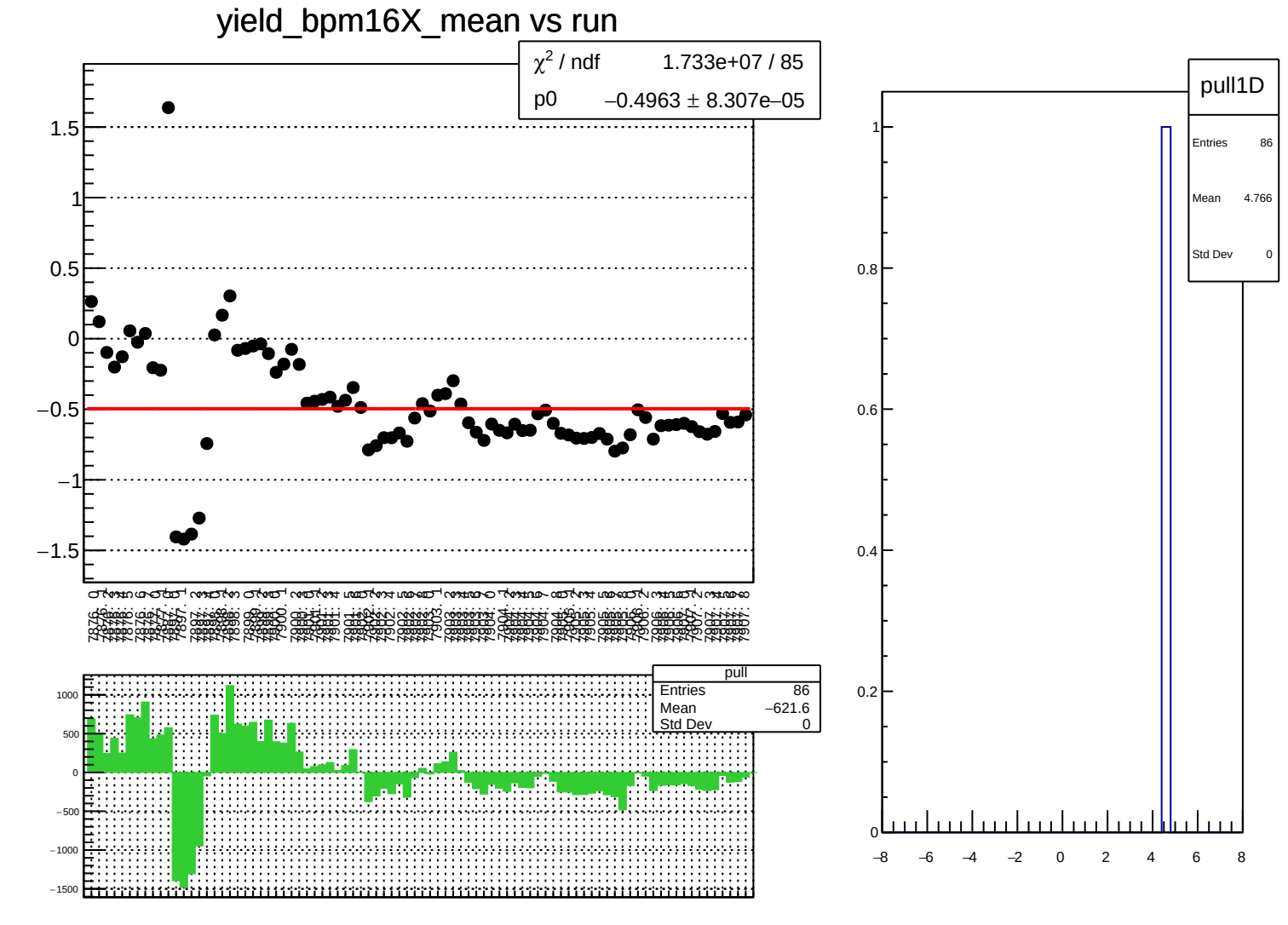

pull1D
Entries 86
Mean 0
Std Dev 0

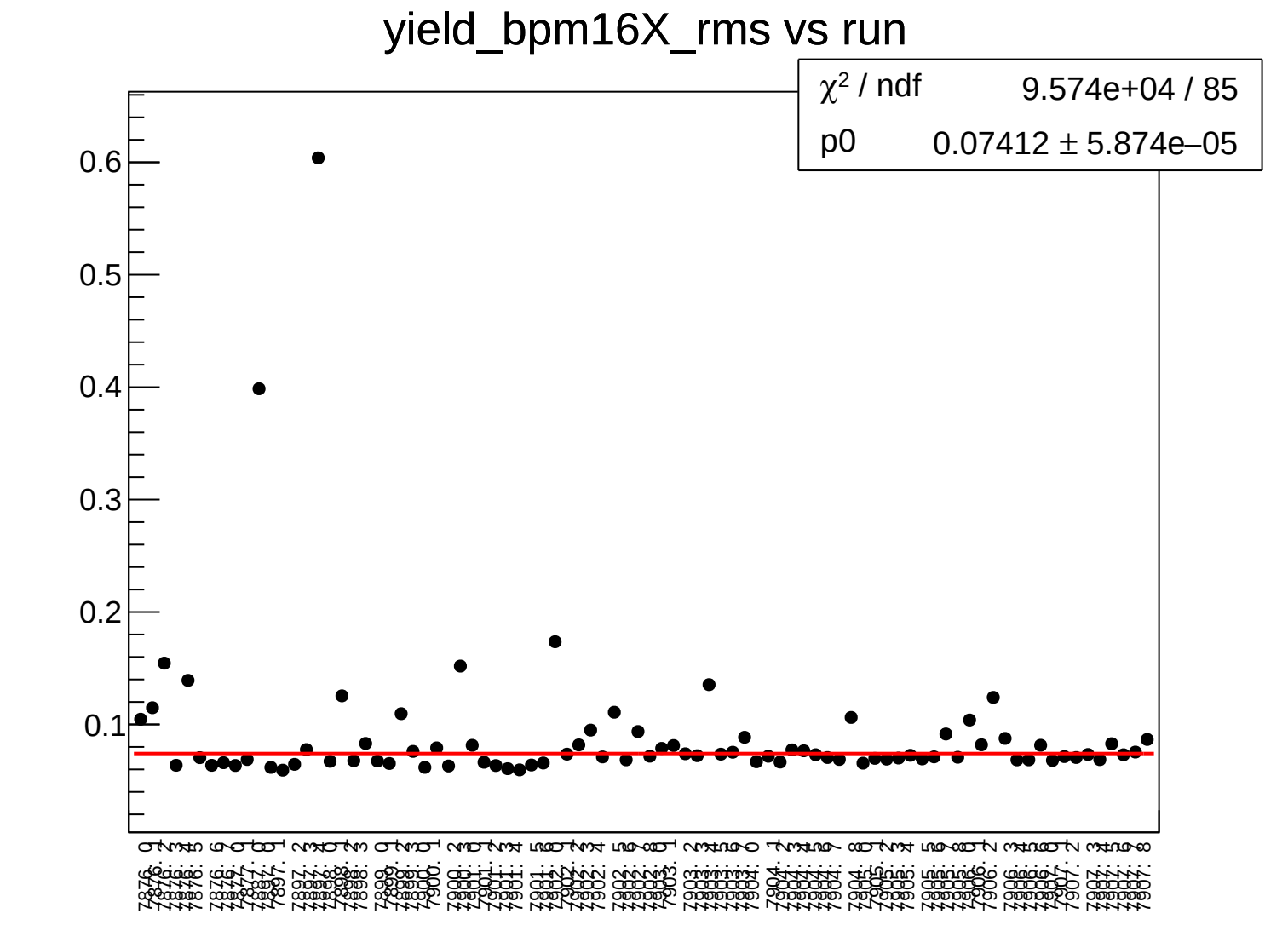

yield_bpm12X_rms vs run
χ² / ndf 1.321e+05 / 85
p0 0.09729 ± 7.8e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

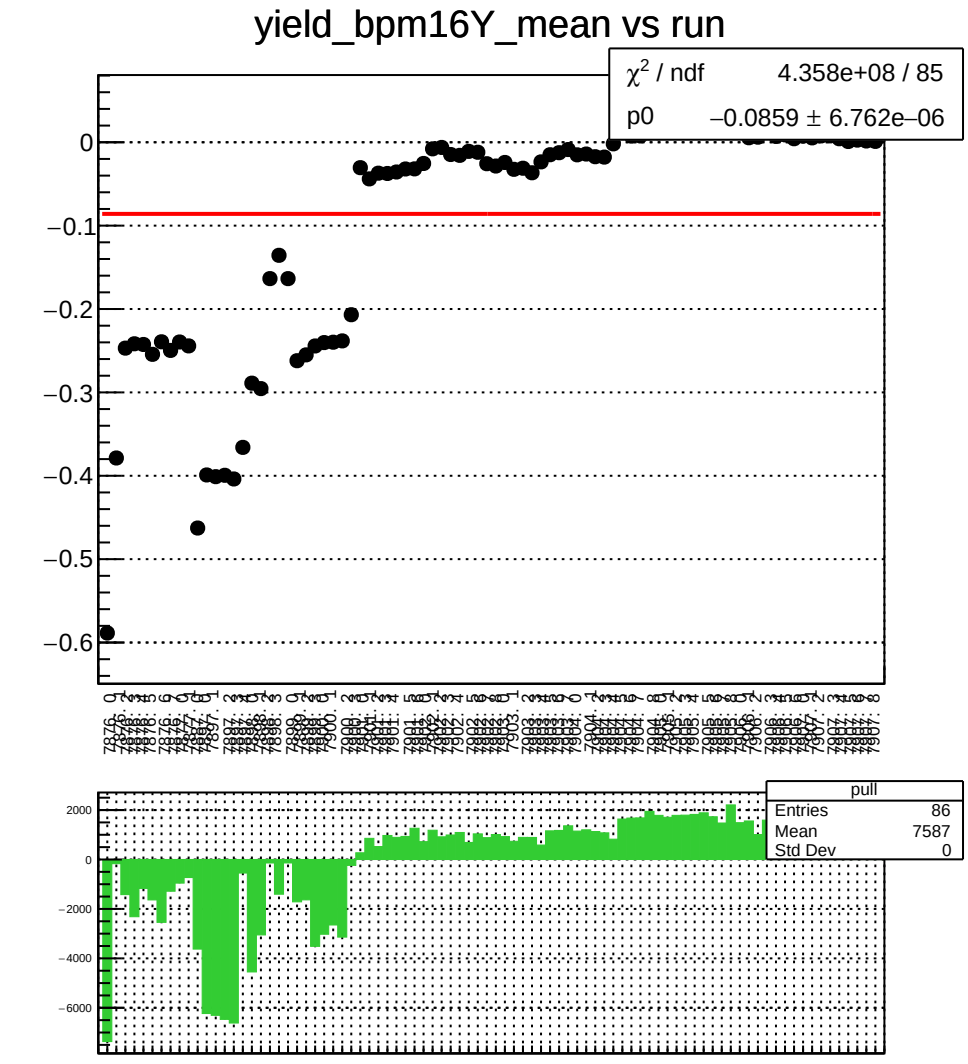

yield_bpm12Y_mean vs run
χ² / ndf 1.255e+09 / 85
p0 1.21 ± 9.873e−06
pull
Entries 86
Mean −3167
Std Dev 0

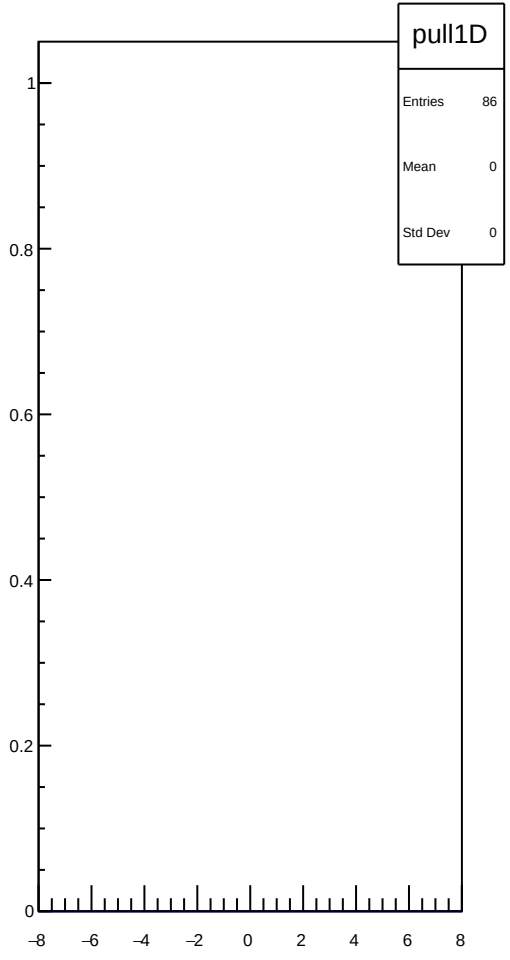

pull1D
Entries 86
Mean 0
Std Dev 0

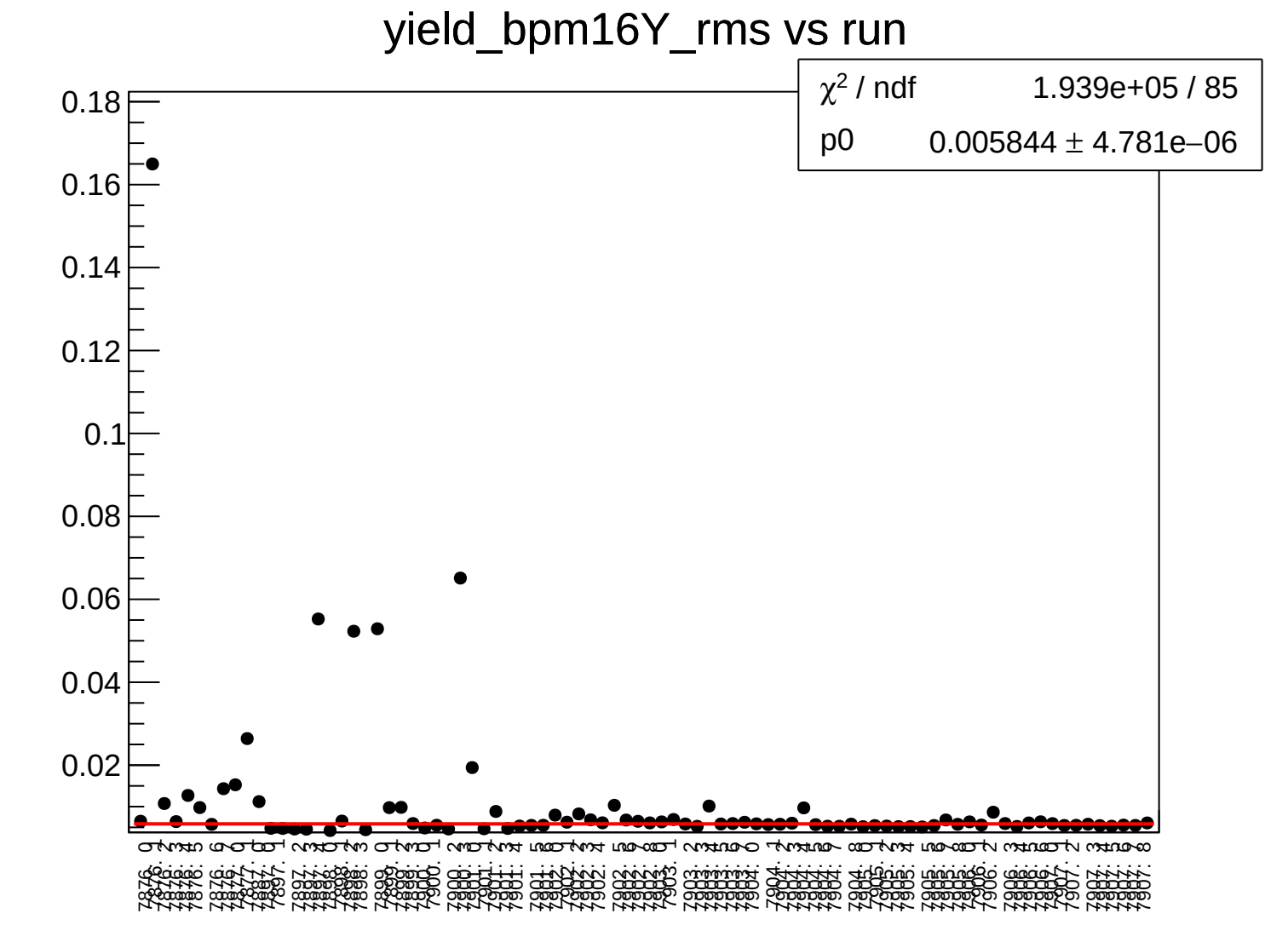

yield_bpm12Y_rms vs run
χ² / ndf 2.069e+05 / 85
p0 0.008496 ± 6.981e−06
0.35
0.3
0.25
0.2
0.15
0.1
0.05

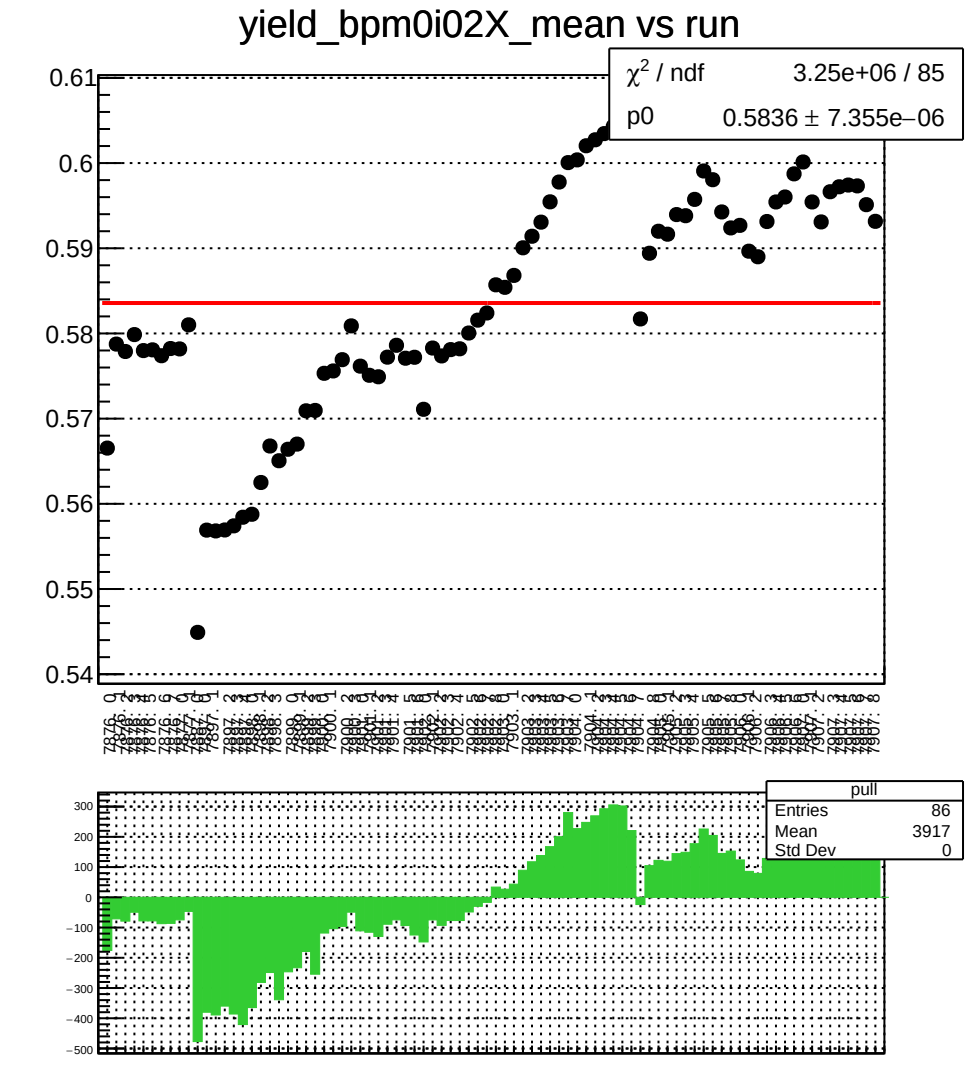

yield_bpm16X_mean vs run
χ² / ndf 1.733e+07 / 85
p0 −0.4963 ± 8.307e−05
pull
Entries 86
Mean −621.6
Std Dev 0
pull1D
Entries 86
Mean 4.766
Std Dev 0

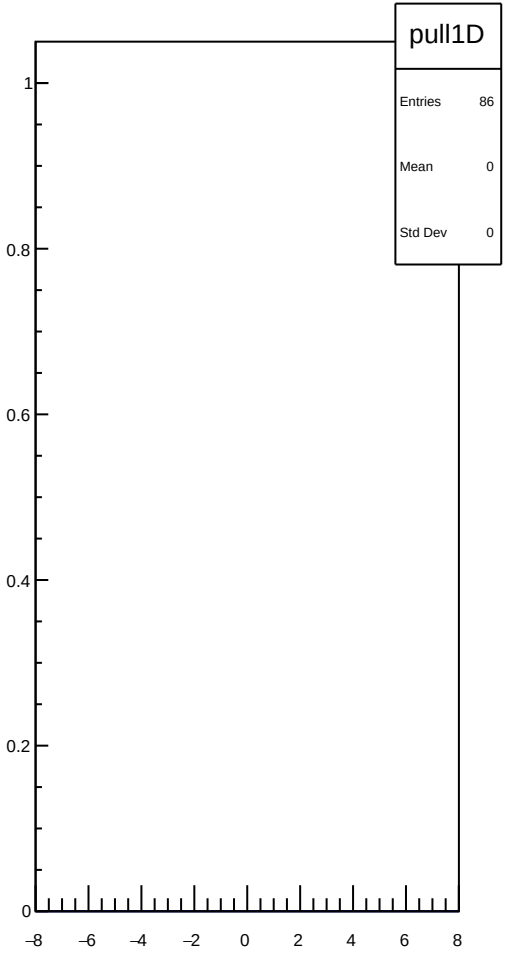

yield_bpm16X_rms vs run
χ² / ndf 9.574e+04 / 85
p0 0.07412 ± 5.874e–05
0.6
0.5
0.4
0.3
0.2
0.1

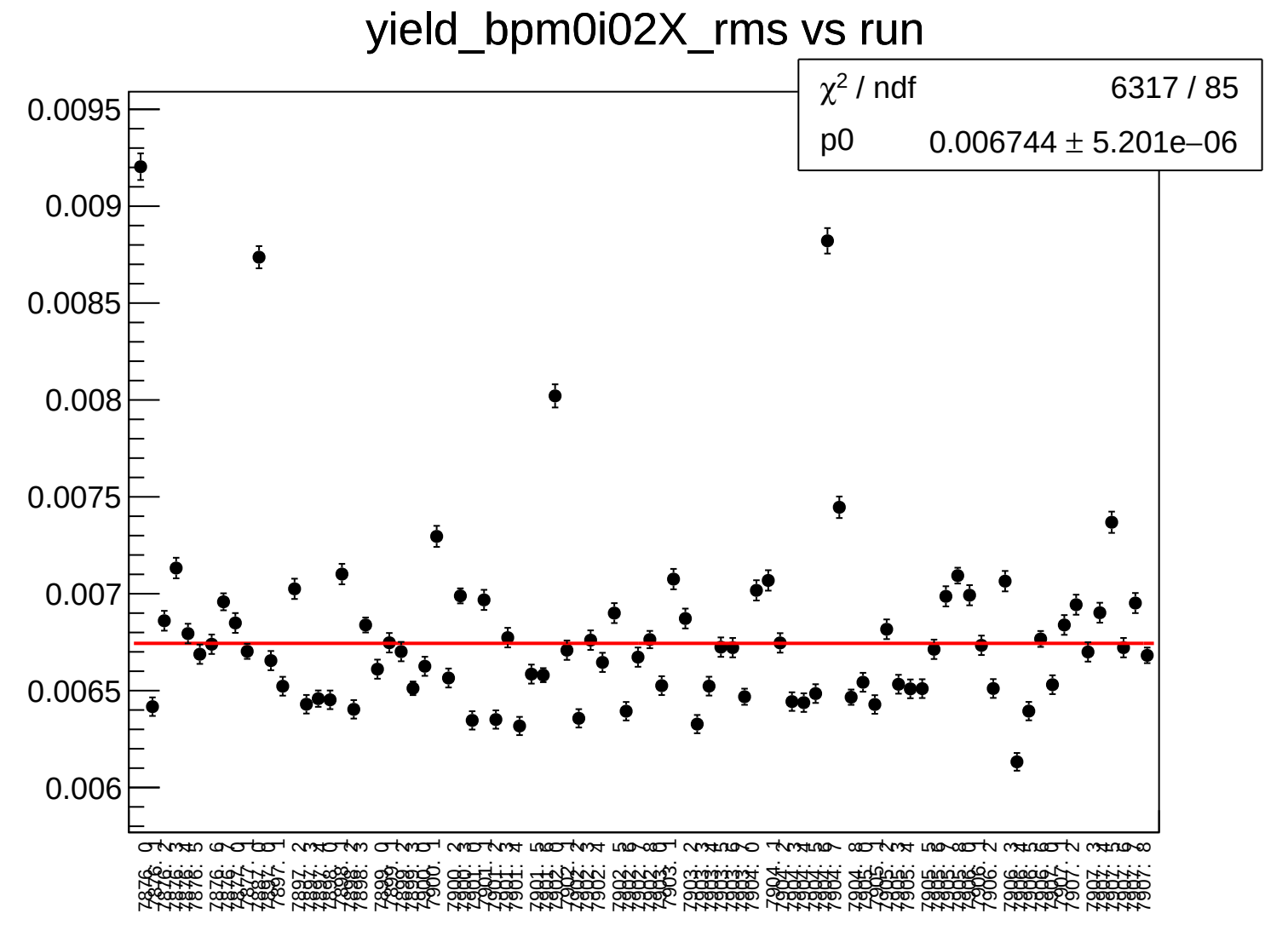

yield_bpm16Y_mean vs run
χ² / ndf 4.358e+08 / 85
p0 −0.0859 ± 6.762e−06
pull
Entries 86
Mean 7587
Std Dev 0

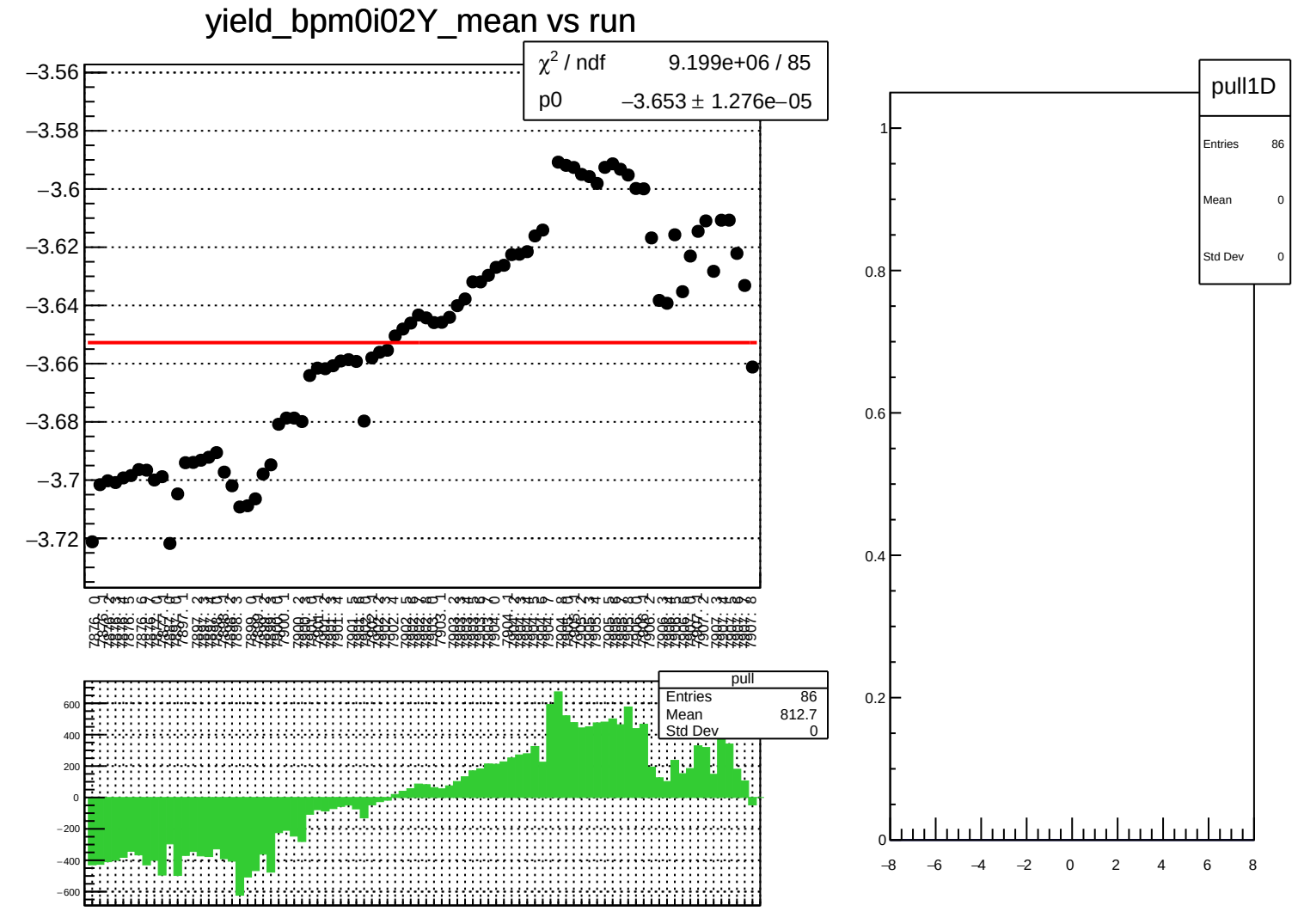

pull1D
Entries 86
Mean 0
Std Dev 0

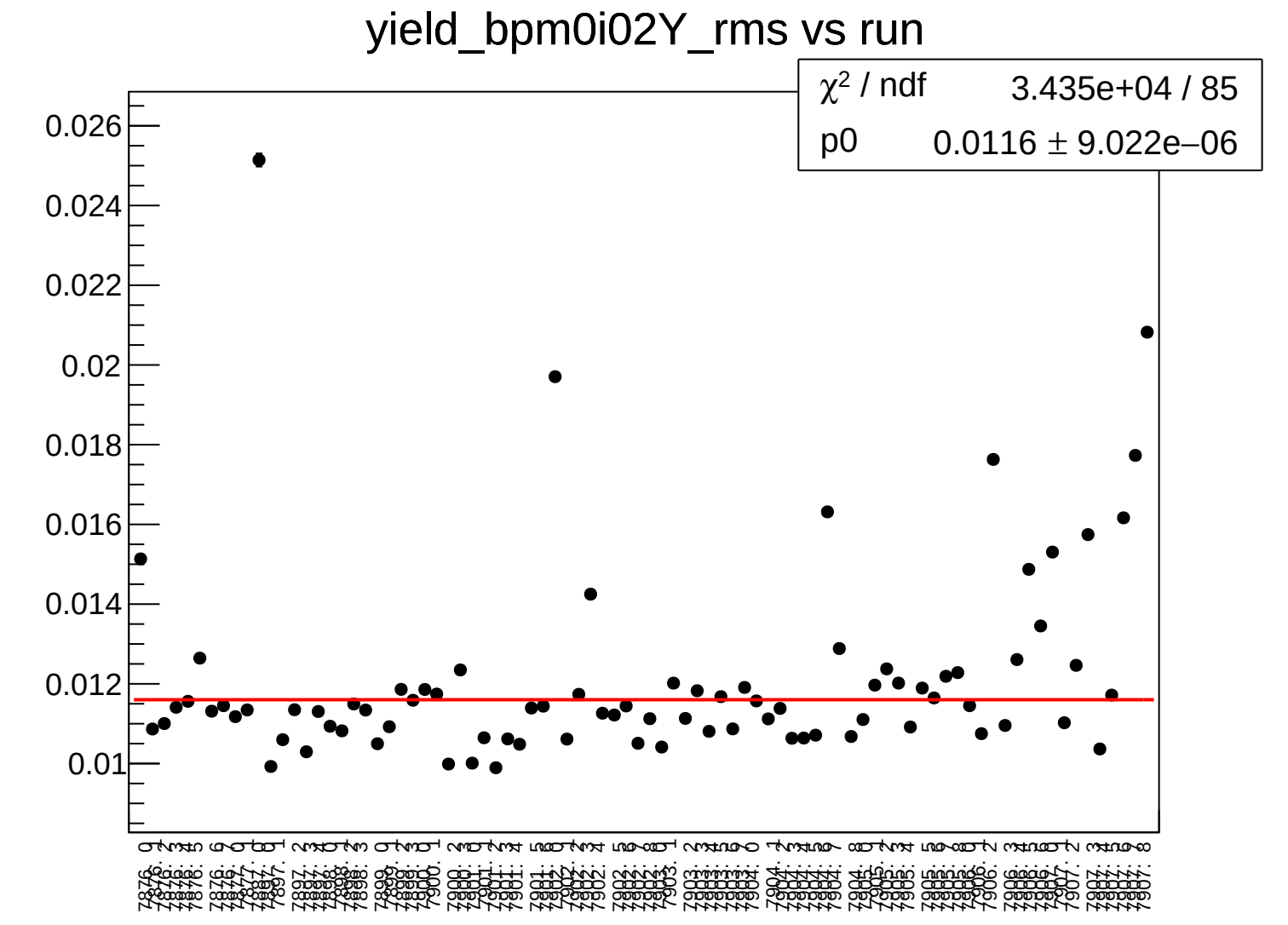

yield_bpm16Y_rms vs run
χ² / ndf 1.939e+05 / 85
p0 0.005844 ± 4.781e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

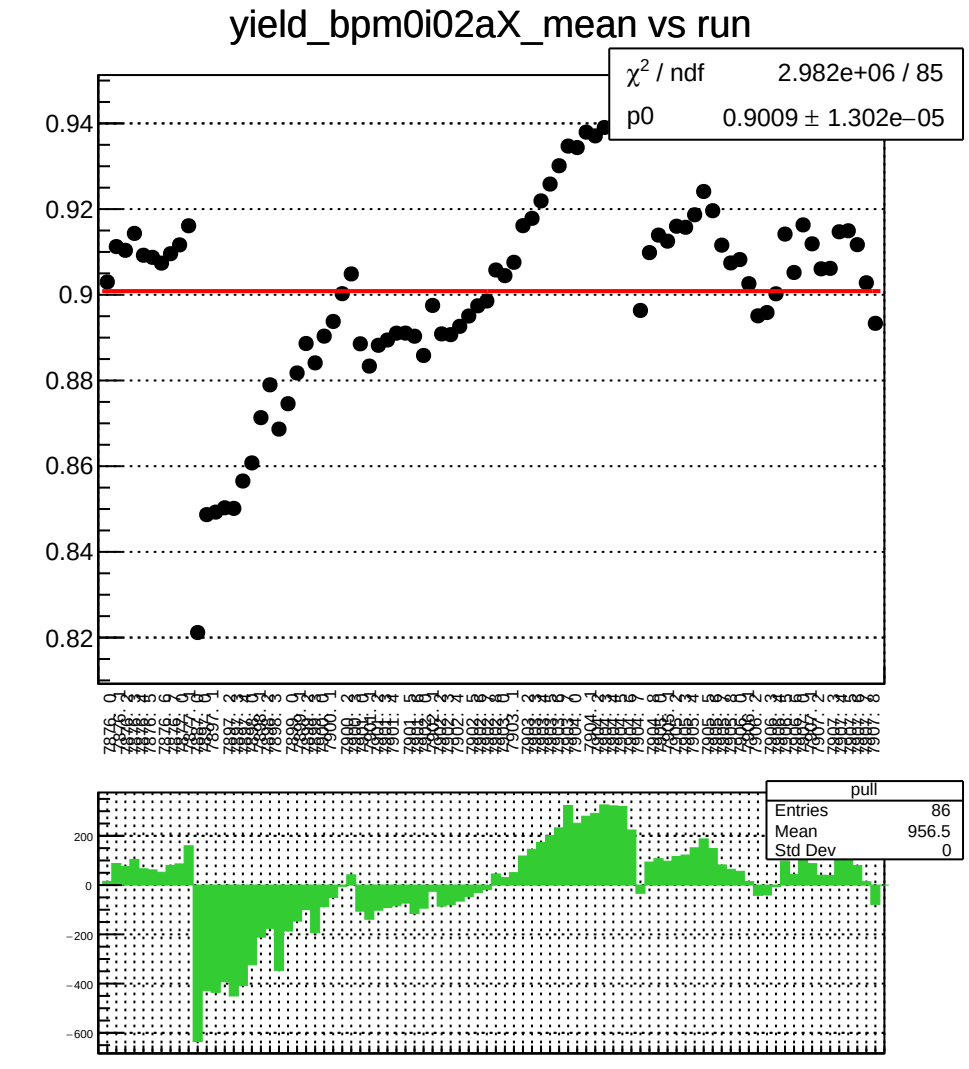

yield_bpm0i02X_mean vs run
χ² / ndf 3.25e+06 / 85
p0 0.5836 ± 7.355e−06
0.61
0.6
0.59
0.58
0.57
0.56
0.55
0.54
pull
Entries 86
Mean 3917
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

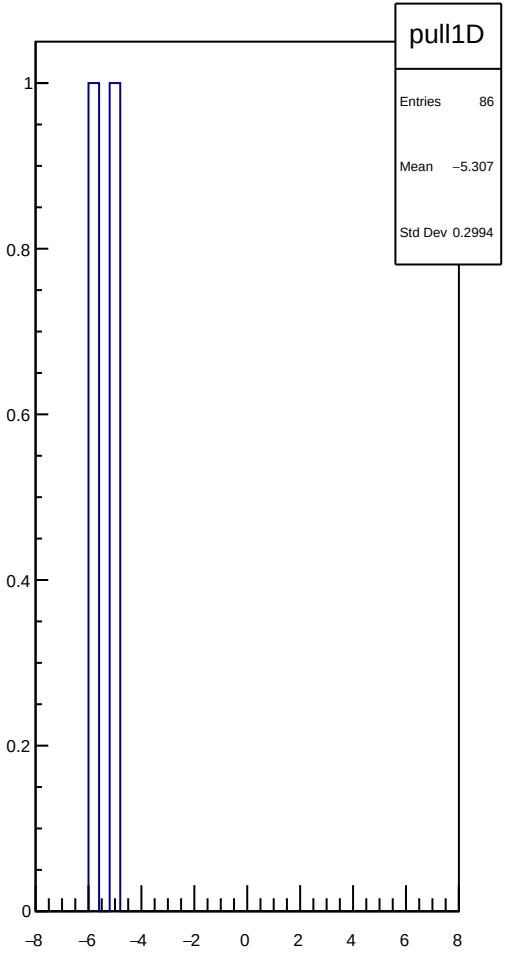

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

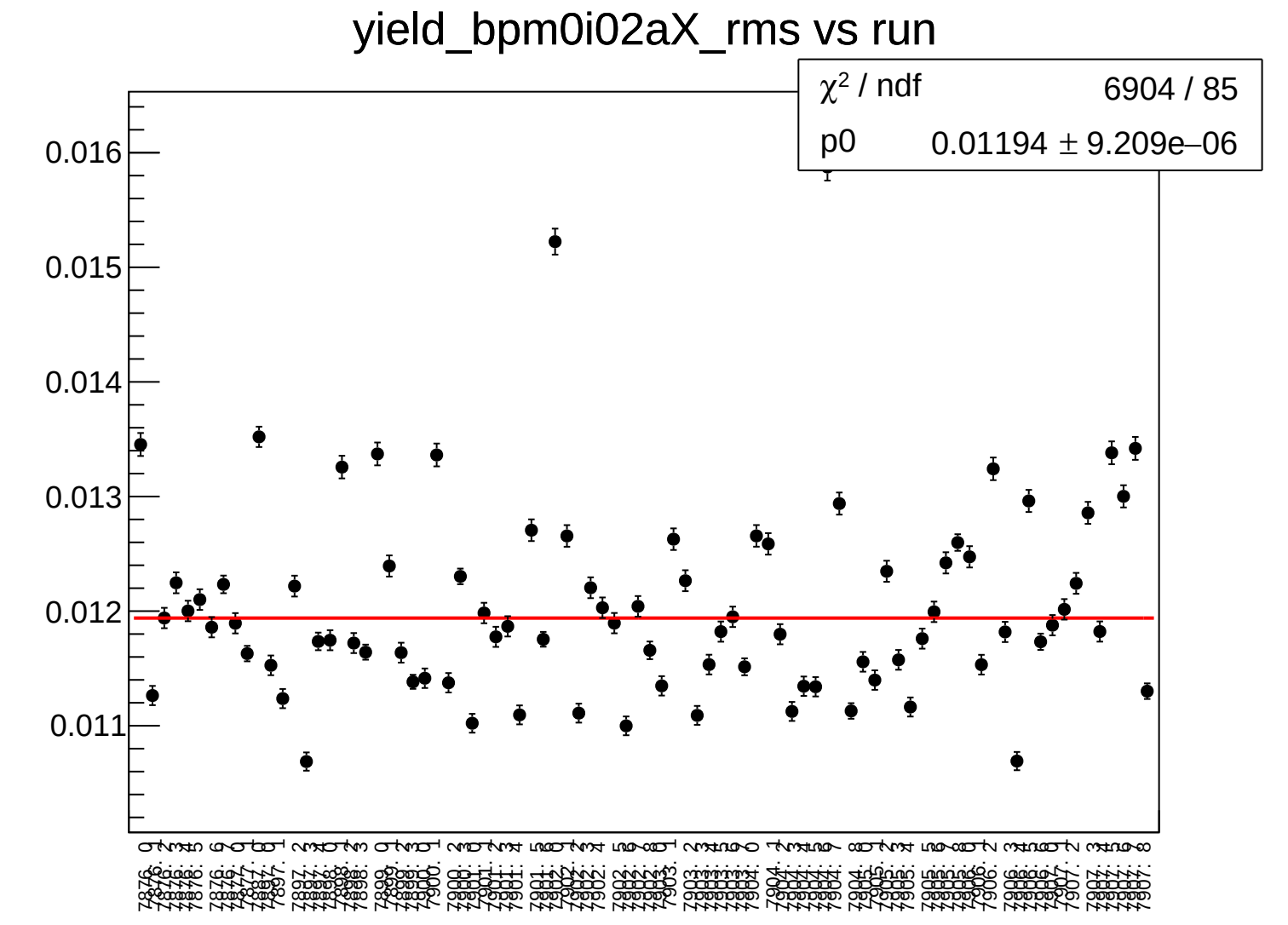

yield_bpm0i02X_rms vs run
χ^2 / ndf 6317 / 85
p0 0.006744 ± 5.201e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

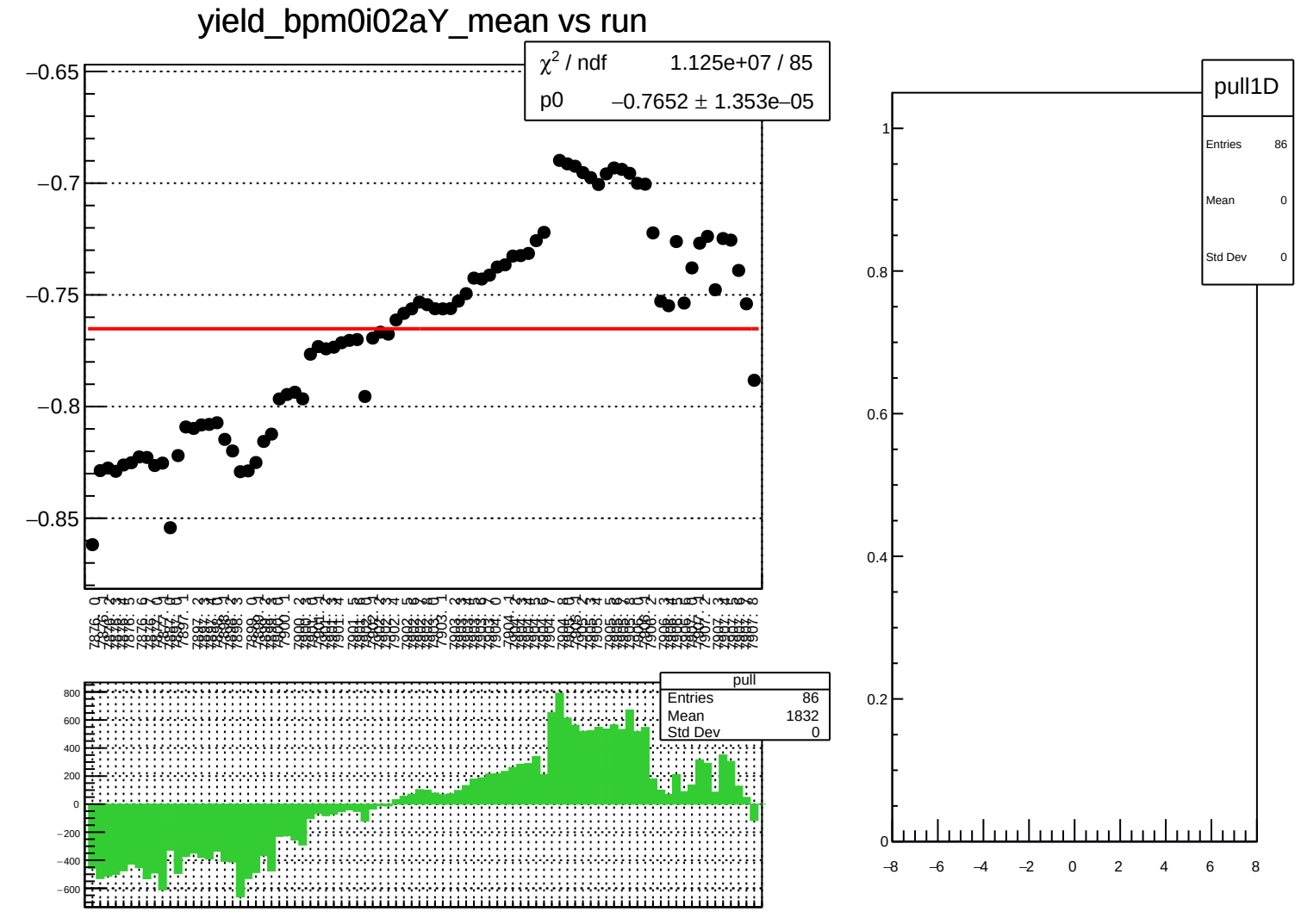

yield_bpm0i02Y_mean vs run
χ² / ndf 9.199e+06 / 85
p0 −3.653 ± 1.276e−05
−3.56
−3.58
−3.6
−3.62
−3.64
−3.66
−3.68
−3.7
−3.72
pull
Entries 86
Mean 812.7
Std Dev 0
600
400
200
0
−200
−400
−600
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

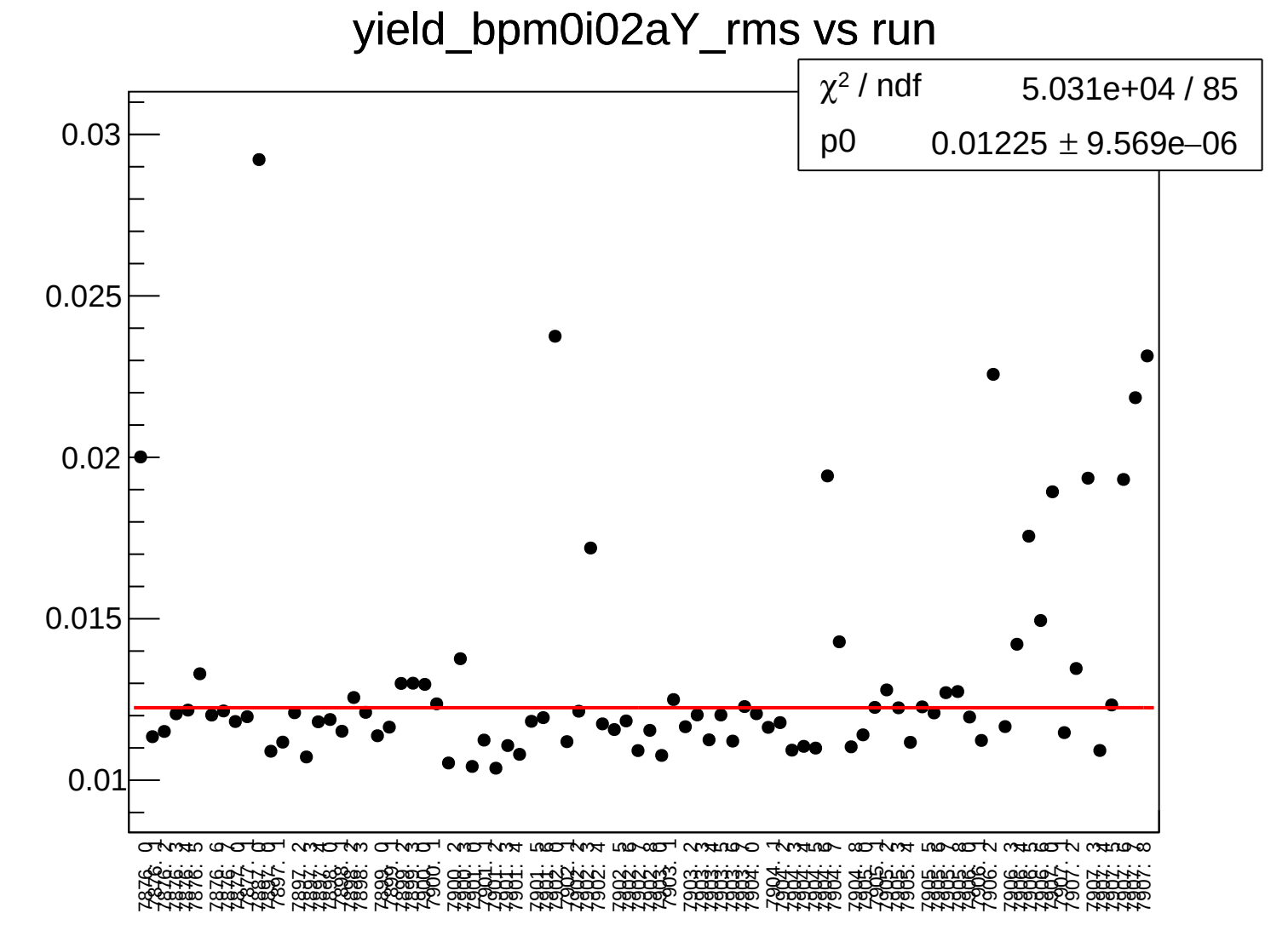

yield_bpm0i02Y_rms vs run
χ² / ndf 3.435e+04 / 85
p0 0.0116 ± 9.022e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

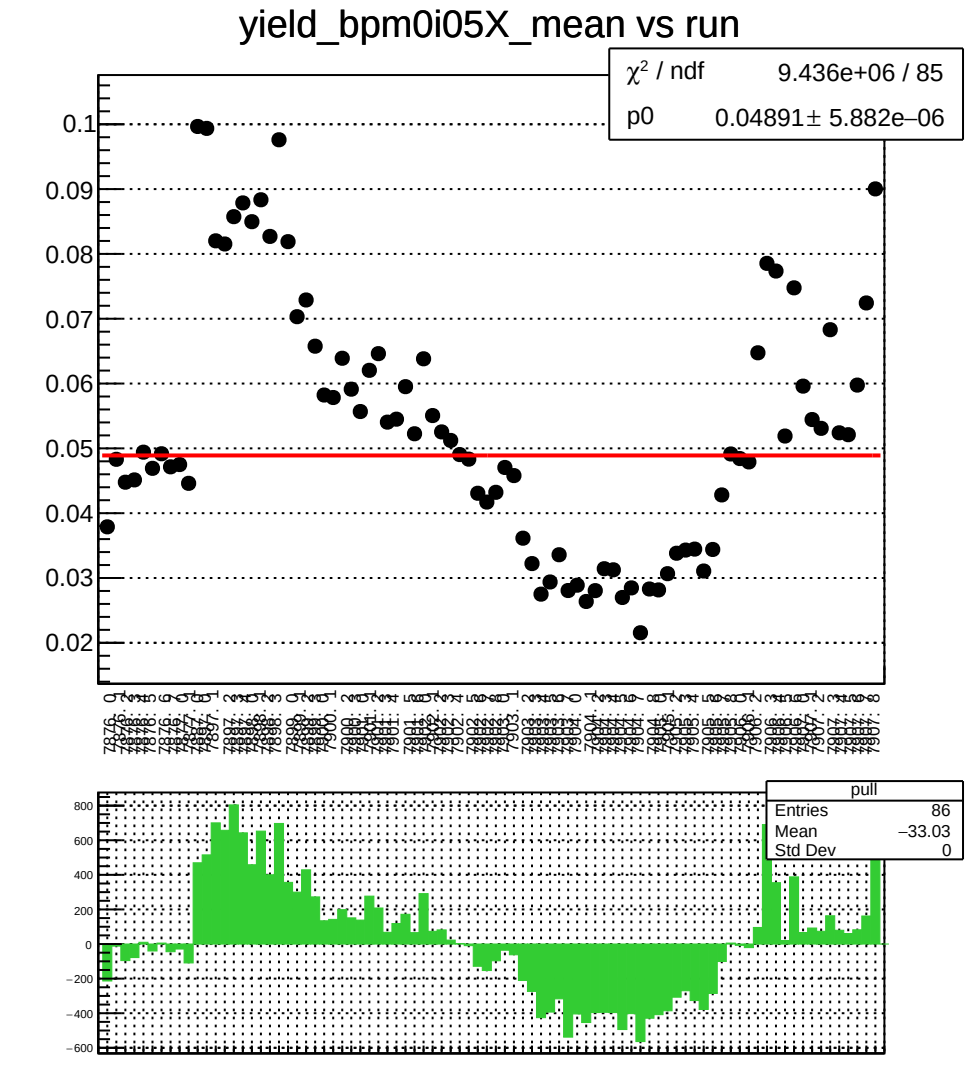

yield_bpm0i02aX_mean vs run
χ² / ndf 2.982e+06 / 85
p0 0.9009 ± 1.302e−05
0.94
0.92
0.9
0.88
0.86
0.84
0.82
pull
Entries 86
Mean 956.5
Std Dev 0
200
0
−200
−400
−600

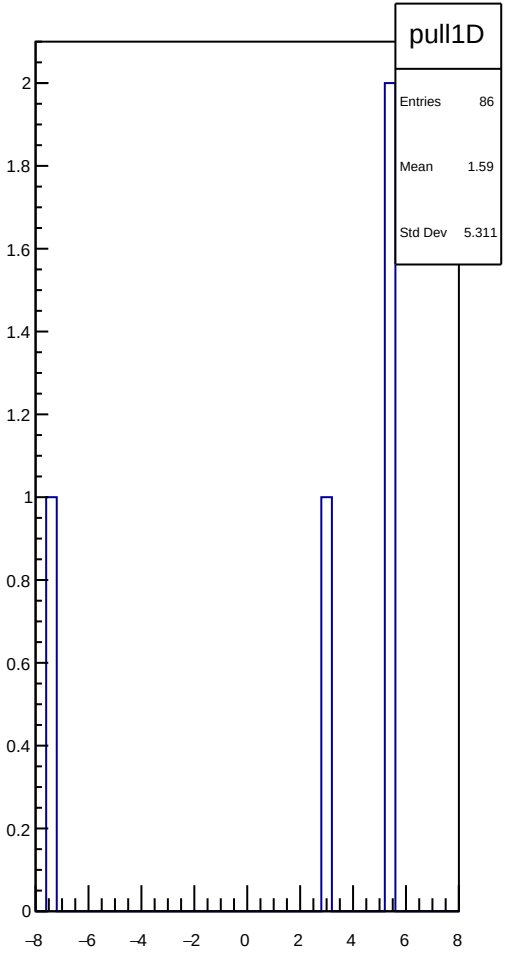

pull1D
Entries 86
Mean −5.307
Std Dev 0.2994
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

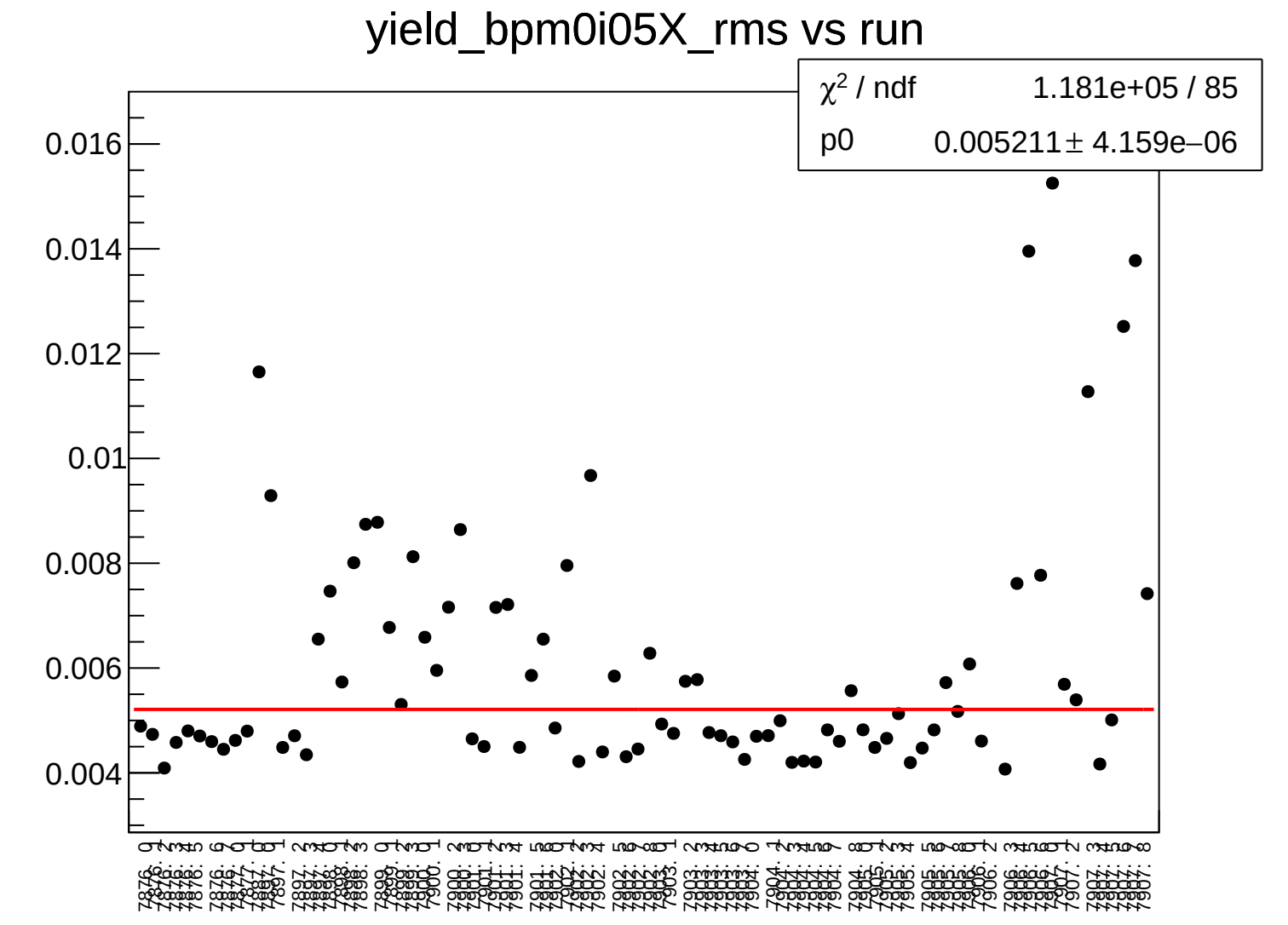

yield_bpm0i02aX_rms vs run
χ² / ndf 6904 / 85
p0 0.01194 ± 9.209e–06
0.016
0.015
0.014
0.013
0.012
0.011

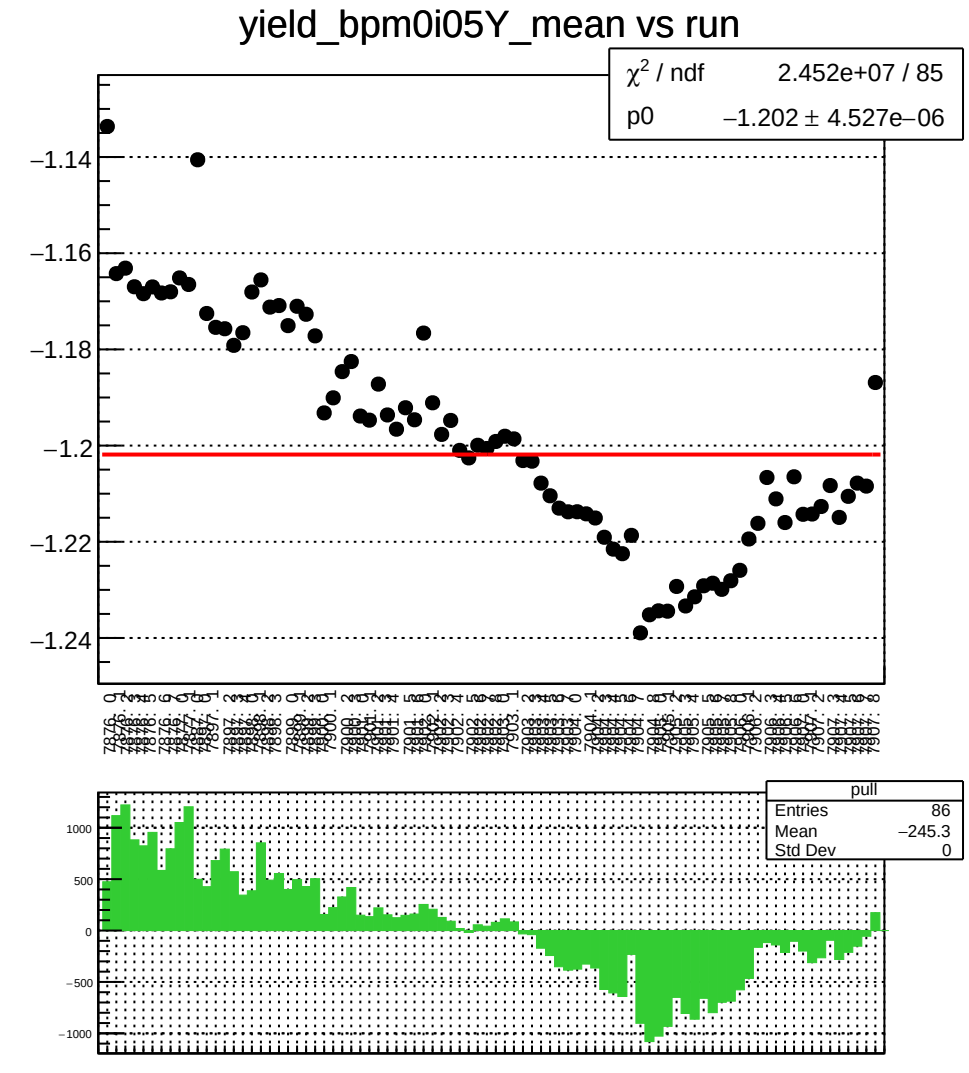

yield_bpm0i02aY_mean vs run
χ² / ndf 1.125e+07 / 85
p0 −0.7652 ± 1.353e−05
−0.65
−0.7
−0.75
−0.8
−0.85
pull
Entries 86
Mean 1832
Std Dev 0
800
600
400
200
0
−200
−400
−600
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

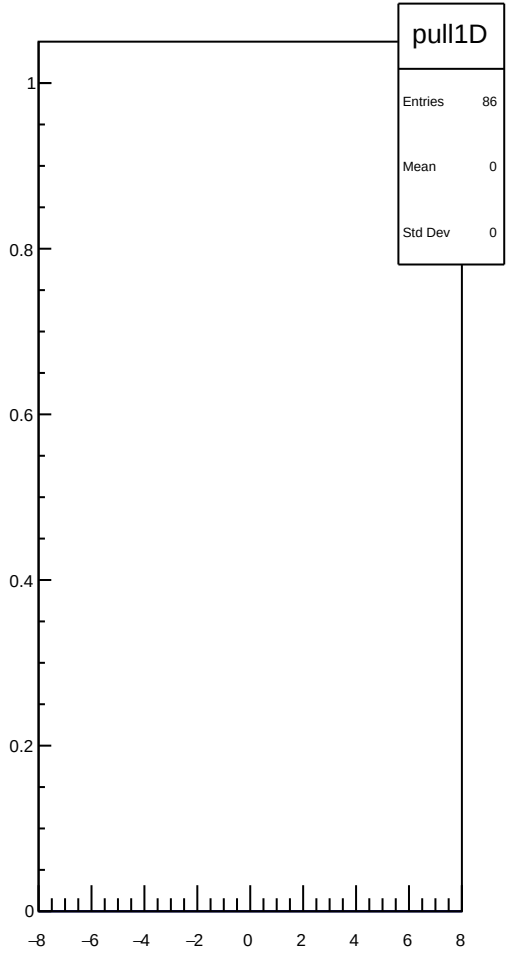

yield_bpm0i02aY_rms vs run
χ² / ndf 5.031e+04 / 85
p0 0.01225 ± 9.569e–06
0.03
0.025
0.02
0.015
0.01

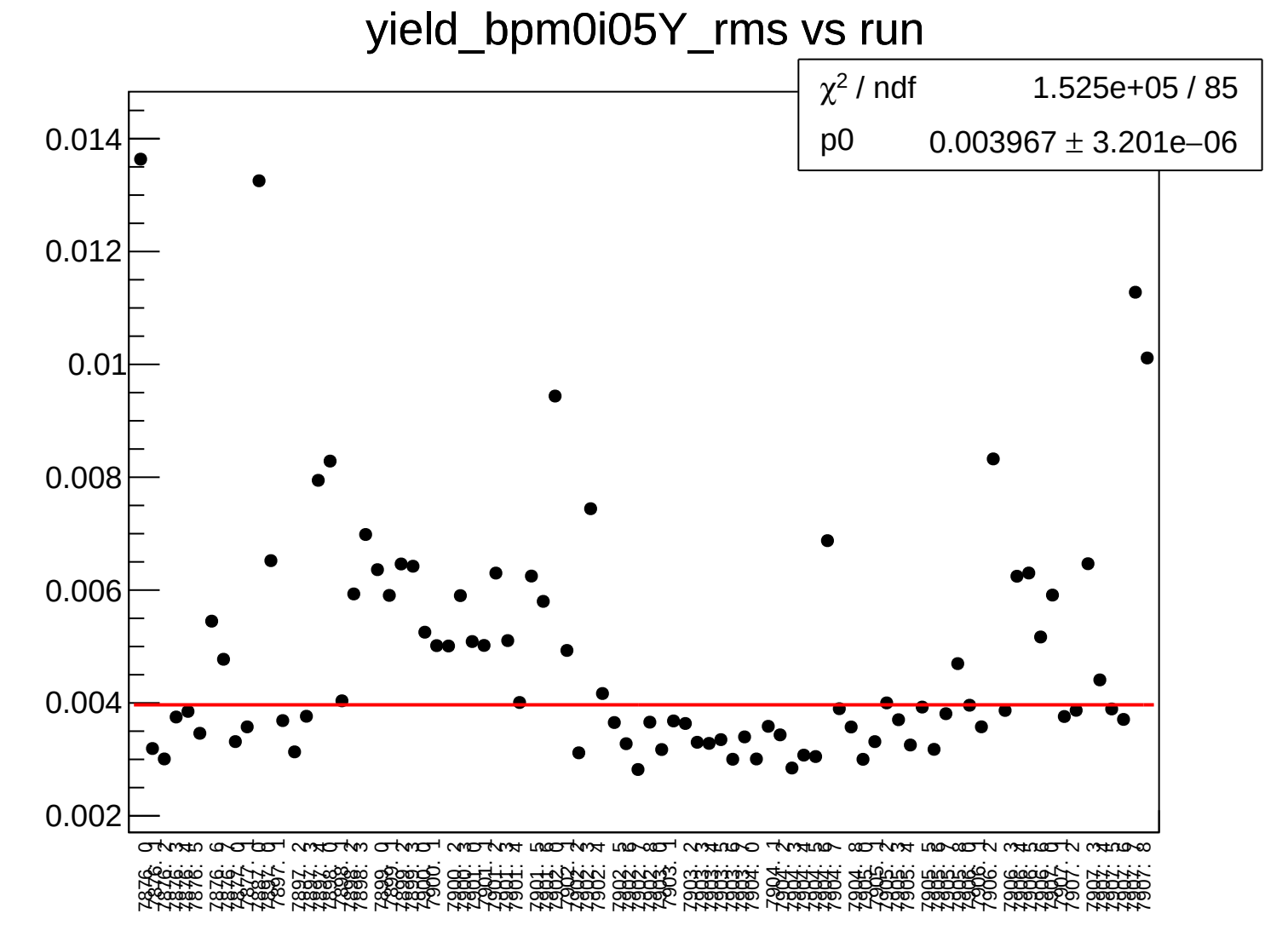

yield_bpm0i05X_mean vs run
χ² / ndf 9.436e+06 / 85
p0 0.04891± 5.882e–06
pull
Entries 86
Mean –33.03
Std Dev 0

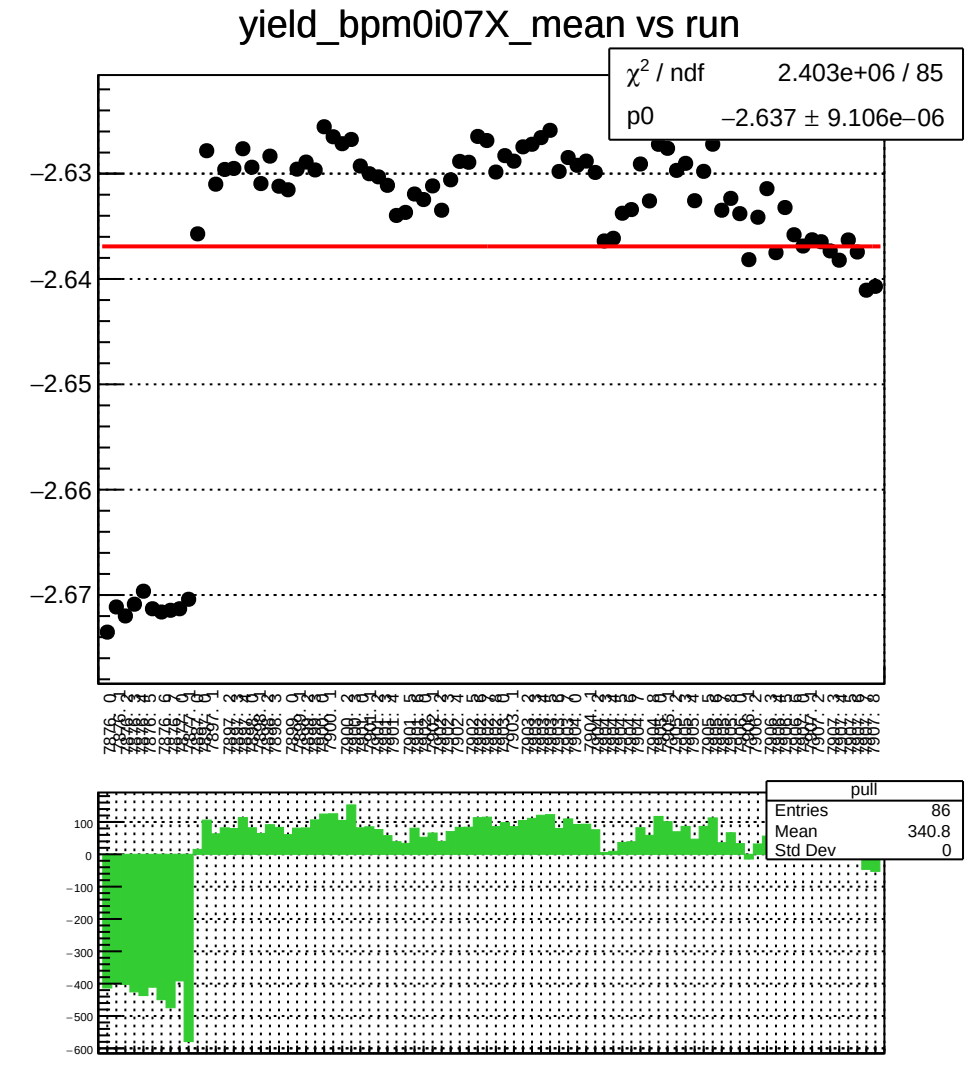

pull1D
Entries 86
Mean 1.59
Std Dev 5.311

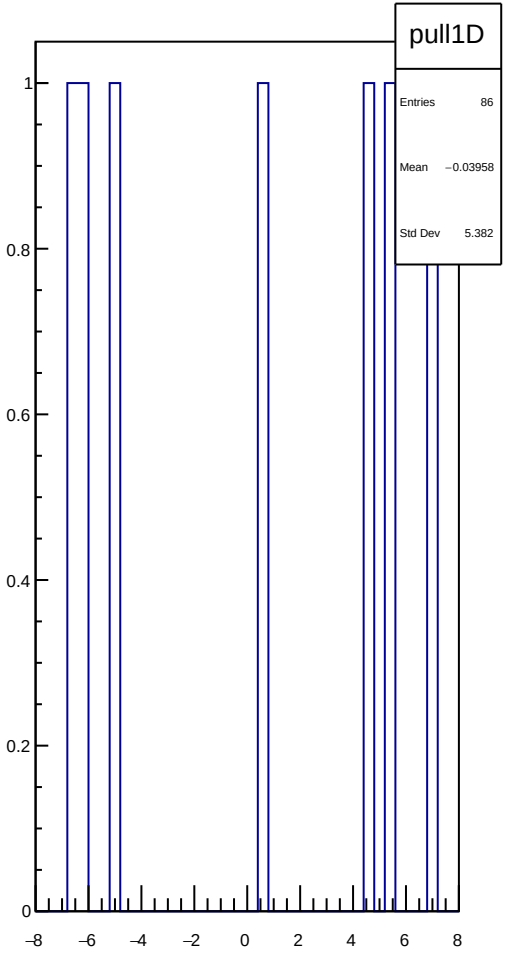

yield_bpm0i05X_rms vs run
χ² / ndf 1.181e+05 / 85
p0 0.005211 ± 4.159e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

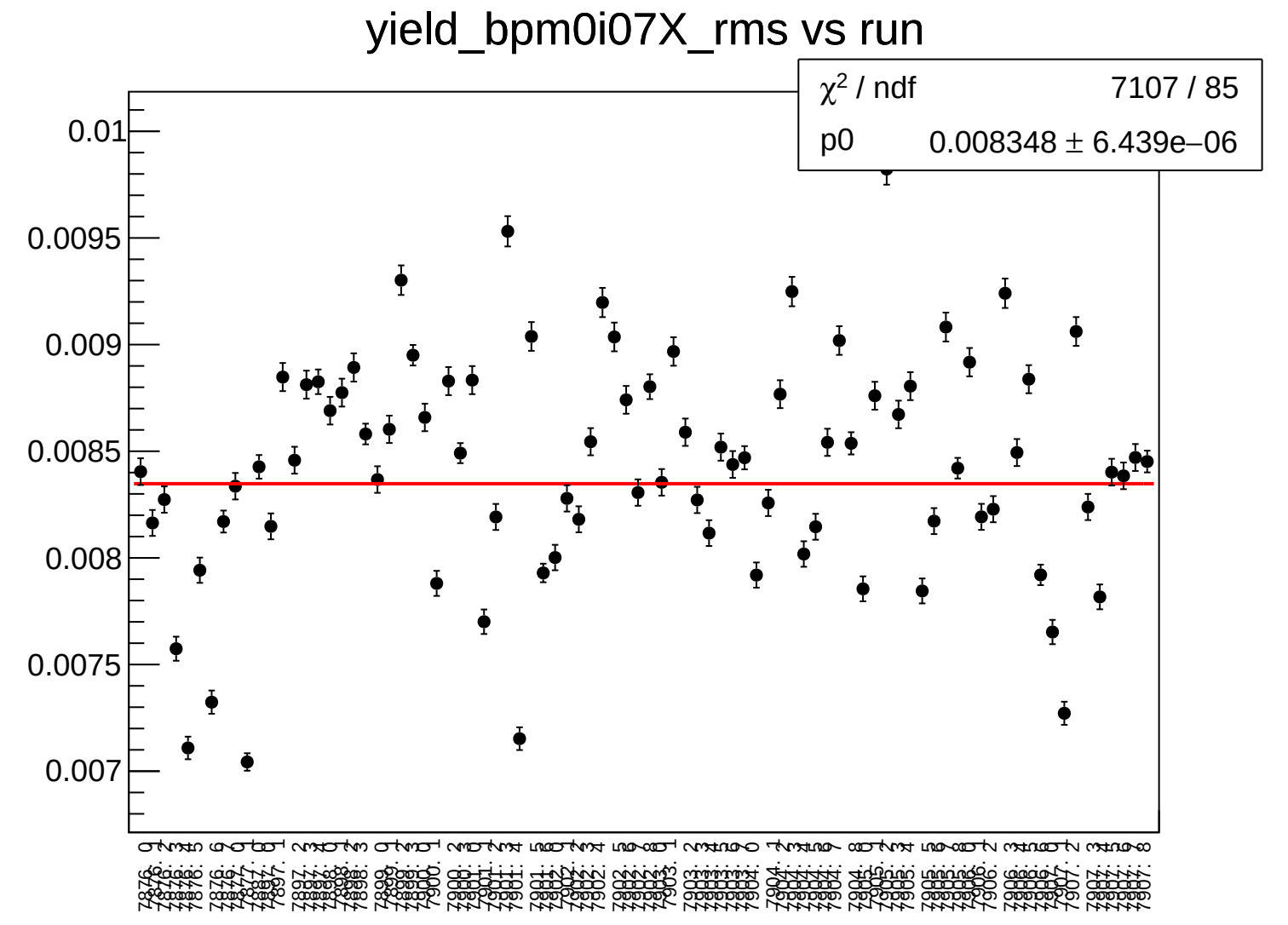

yield_bpm0i05Y_mean vs run
χ² / ndf 2.452e+07 / 85
p0 −1.202 ± 4.527e−06
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
pull
Entries 86
Mean −245.3
Std Dev 0
1000
500
0
−500
−1000

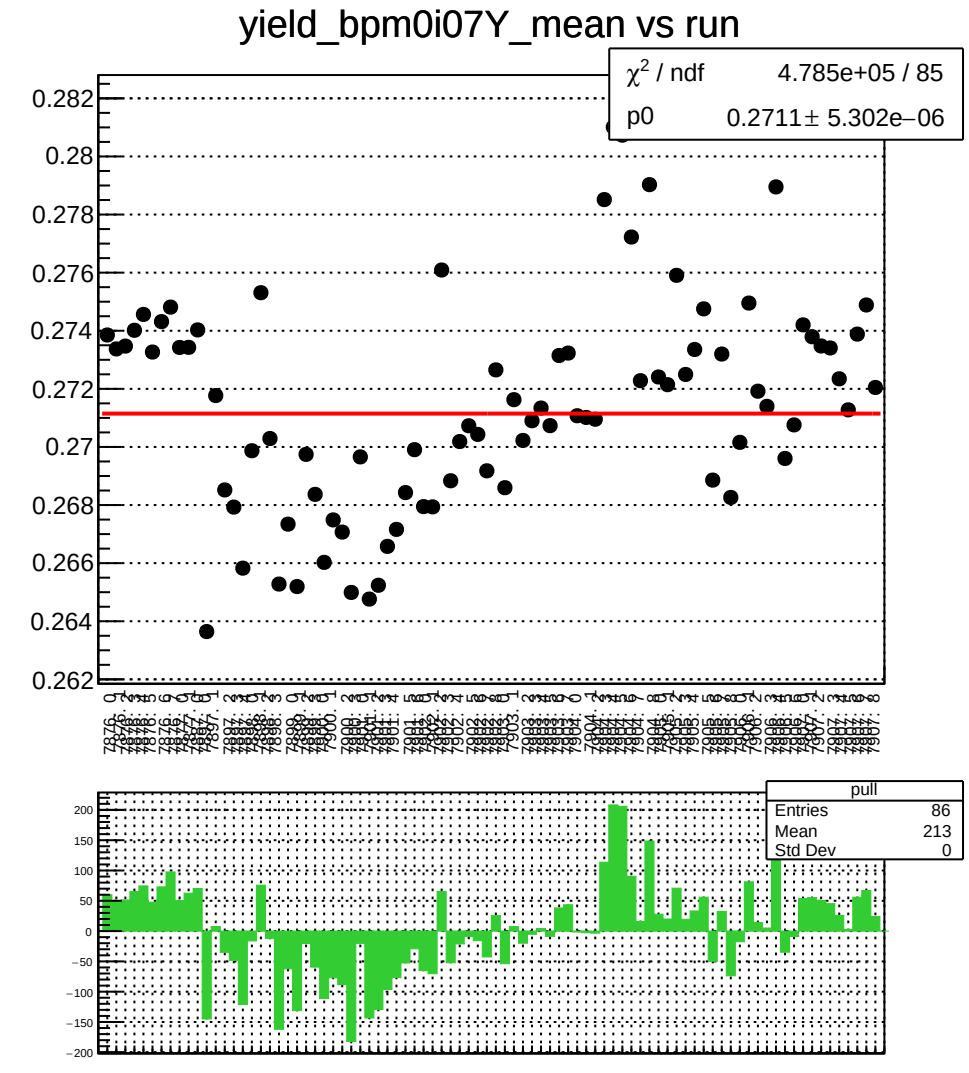

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

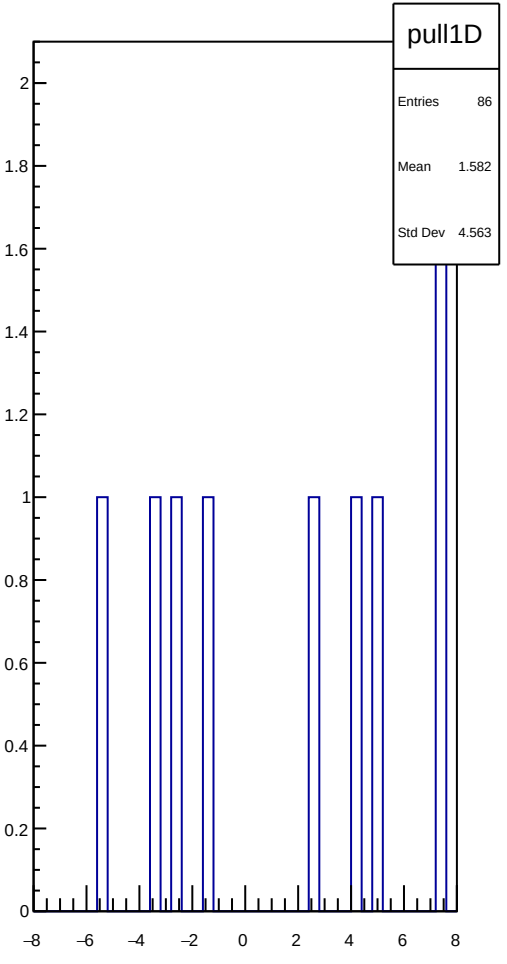

yield_bpm0i05Y_rms vs run
χ² / ndf 1.525e+05 / 85
p0 0.003967 ± 3.201e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

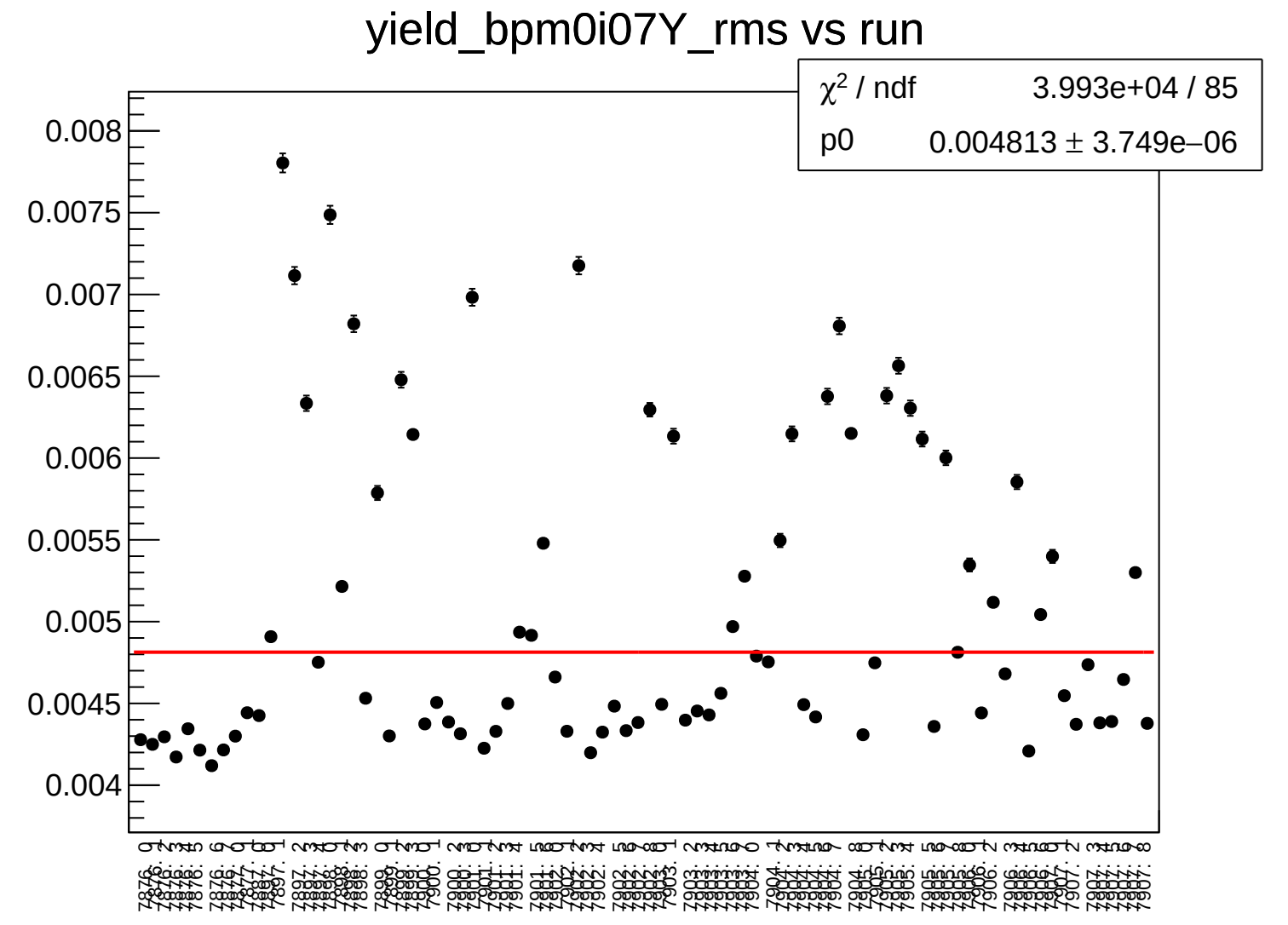

yield_bpm0i07X_mean vs run
χ² / ndf 2.403e+06 / 85
p0 −2.637 ± 9.106e−06
−2.63
−2.64
−2.65
−2.66
−2.67
pull
Entries 86
Mean 340.8
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600

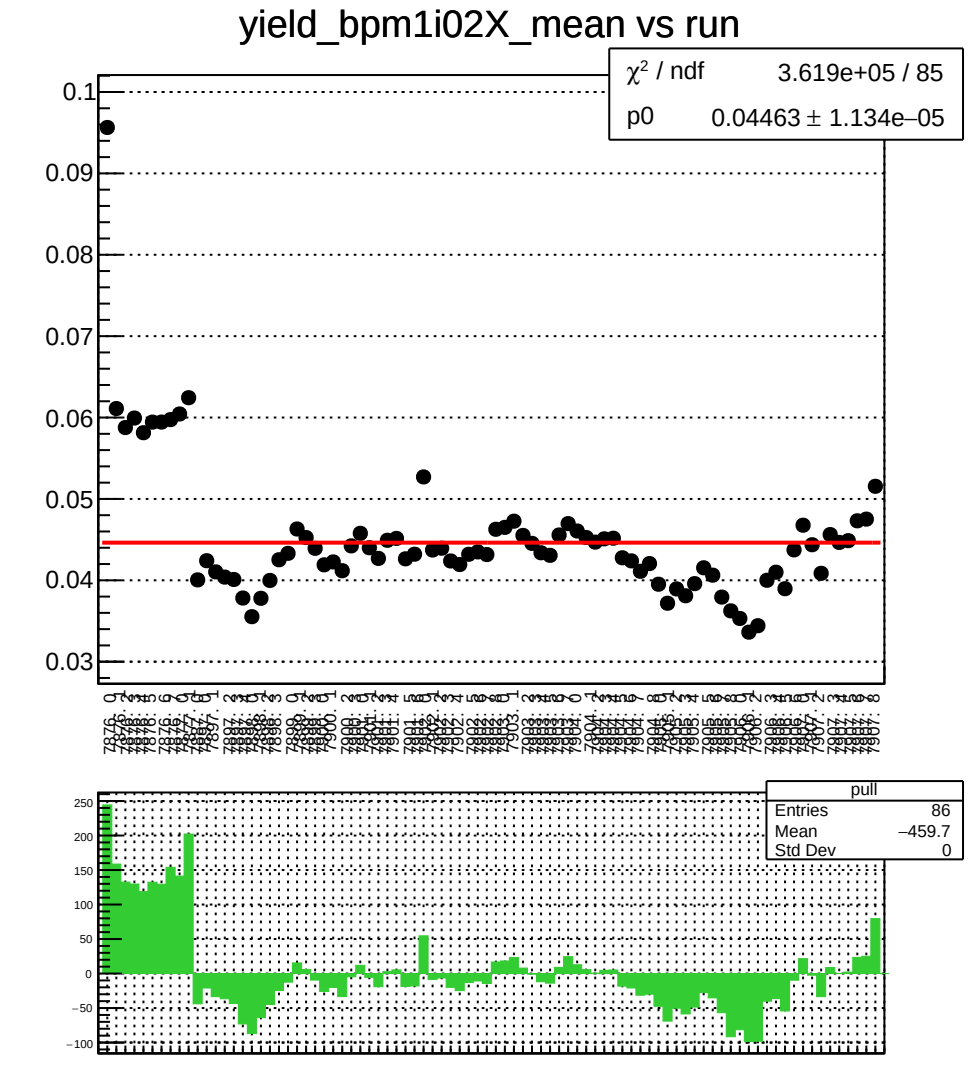

pull1D
Entries 86
Mean −0.03958
Std Dev 5.382
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

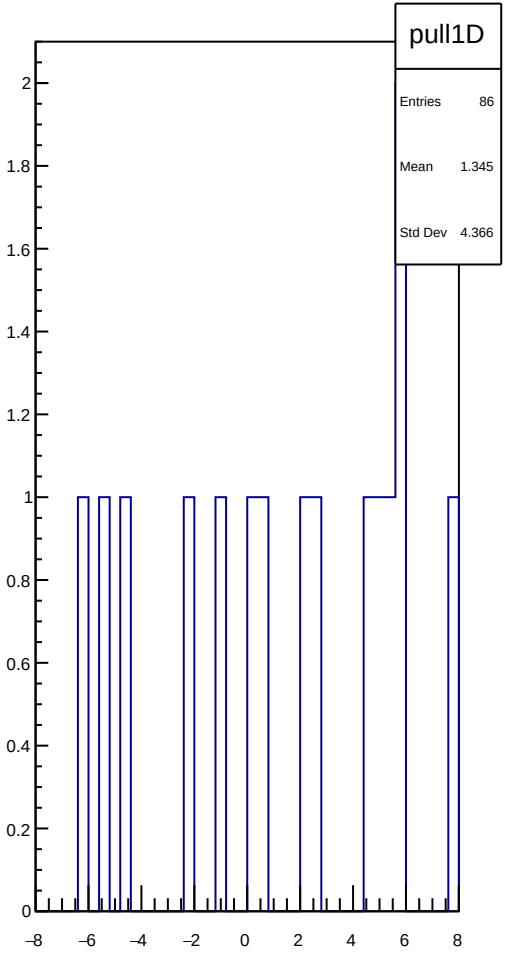

yield_bpm0i07X_rms vs run
χ² / ndf 7107 / 85
p0 0.008348 ± 6.439e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

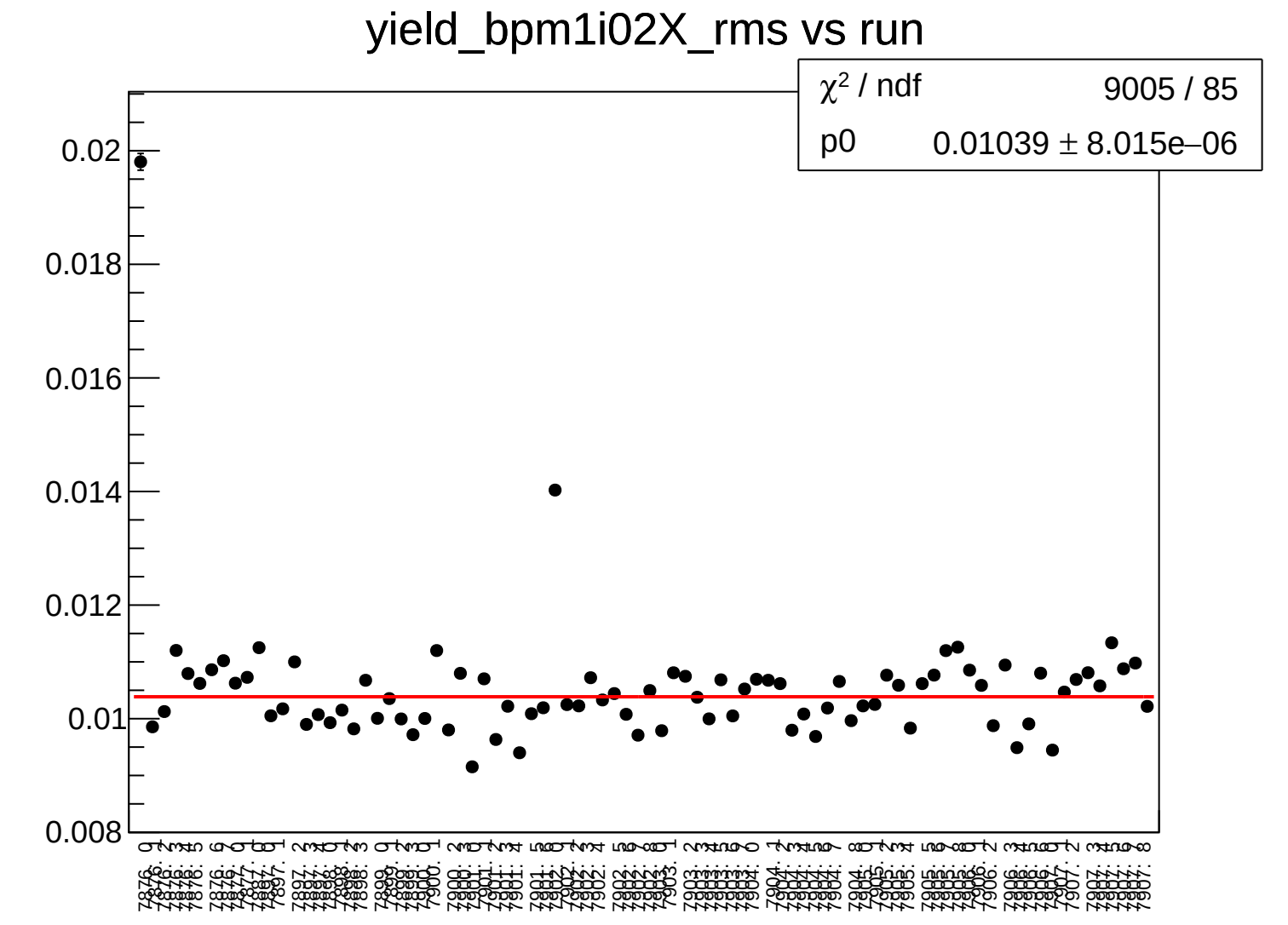

yield_bpm0i07Y_mean vs run
χ² / ndf 4.785e+05 / 85
p0 0.2711 ± 5.302e−06
0.282
0.28
0.278
0.276
0.274
0.272
0.27
0.268
0.266
0.264
0.262
pull
Entries 86
Mean 213
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

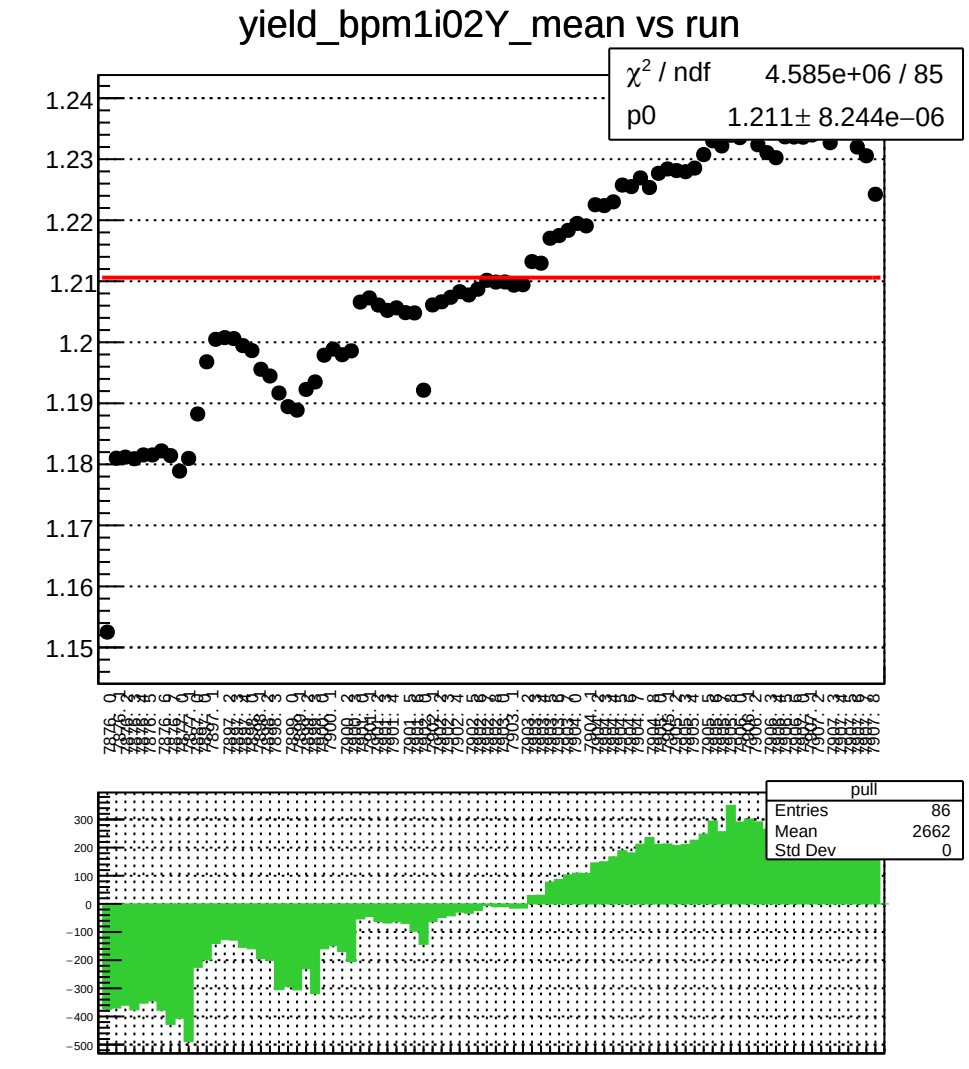

pull1D
Entries 86
Mean 1.582
Std Dev 4.563
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

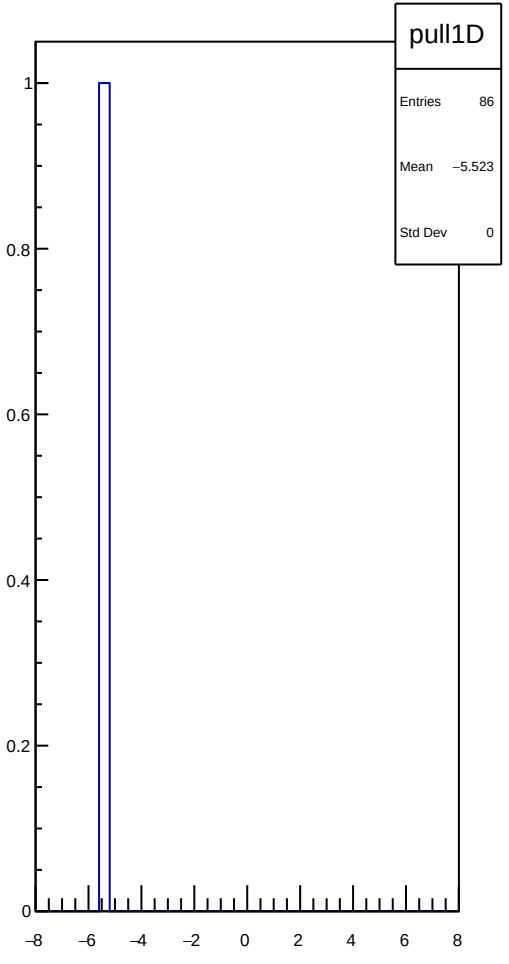

yield_bpm0i07Y_rms vs run
χ² / ndf 3.993e+04 / 85
p0 0.004813 ± 3.749e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

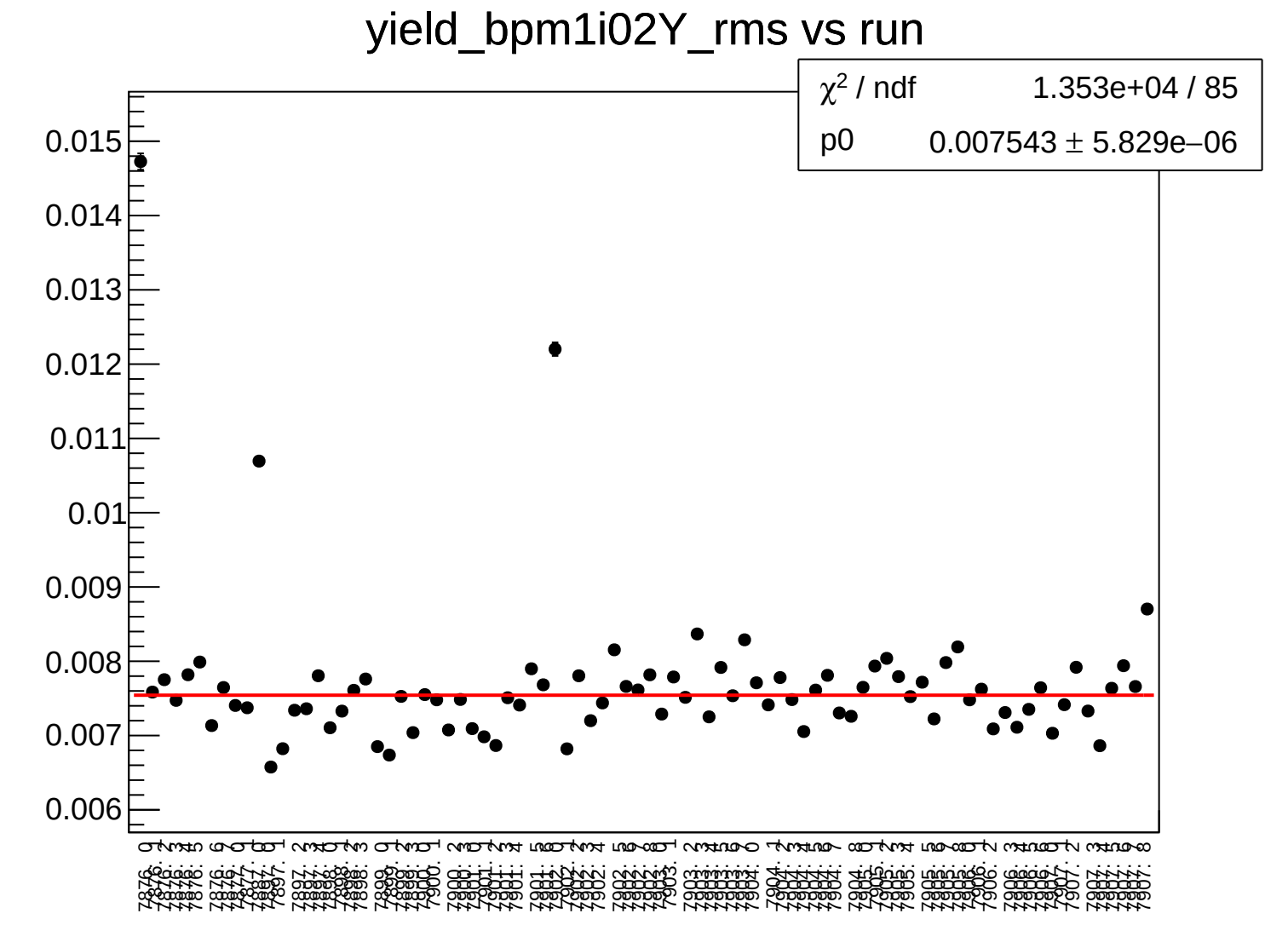

yield_bpm1i02X_mean vs run
χ² / ndf 3.619e+05 / 85
p0 0.04463 ± 1.134e−05
pull
Entries 86
Mean −459.7
Std Dev 0

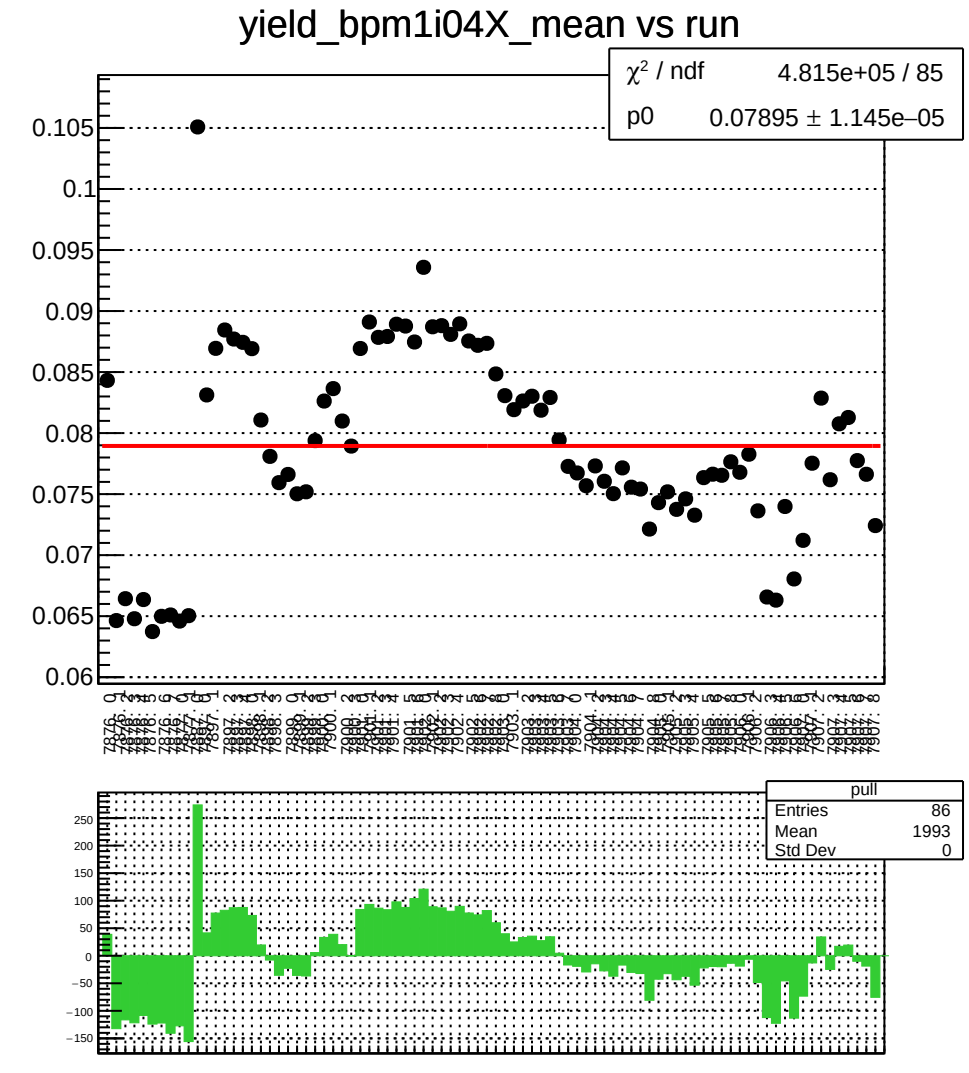

pull1D
Entries 86
Mean 1.345
Std Dev 4.366

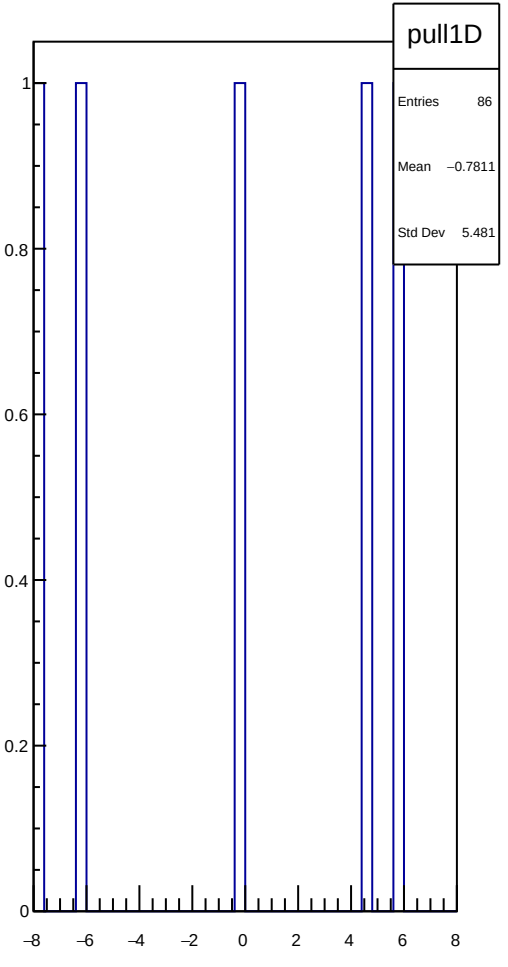

yield_bpm1i02X_rms vs run
χ² / ndf 9005 / 85
p0 0.01039 ± 8.015e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

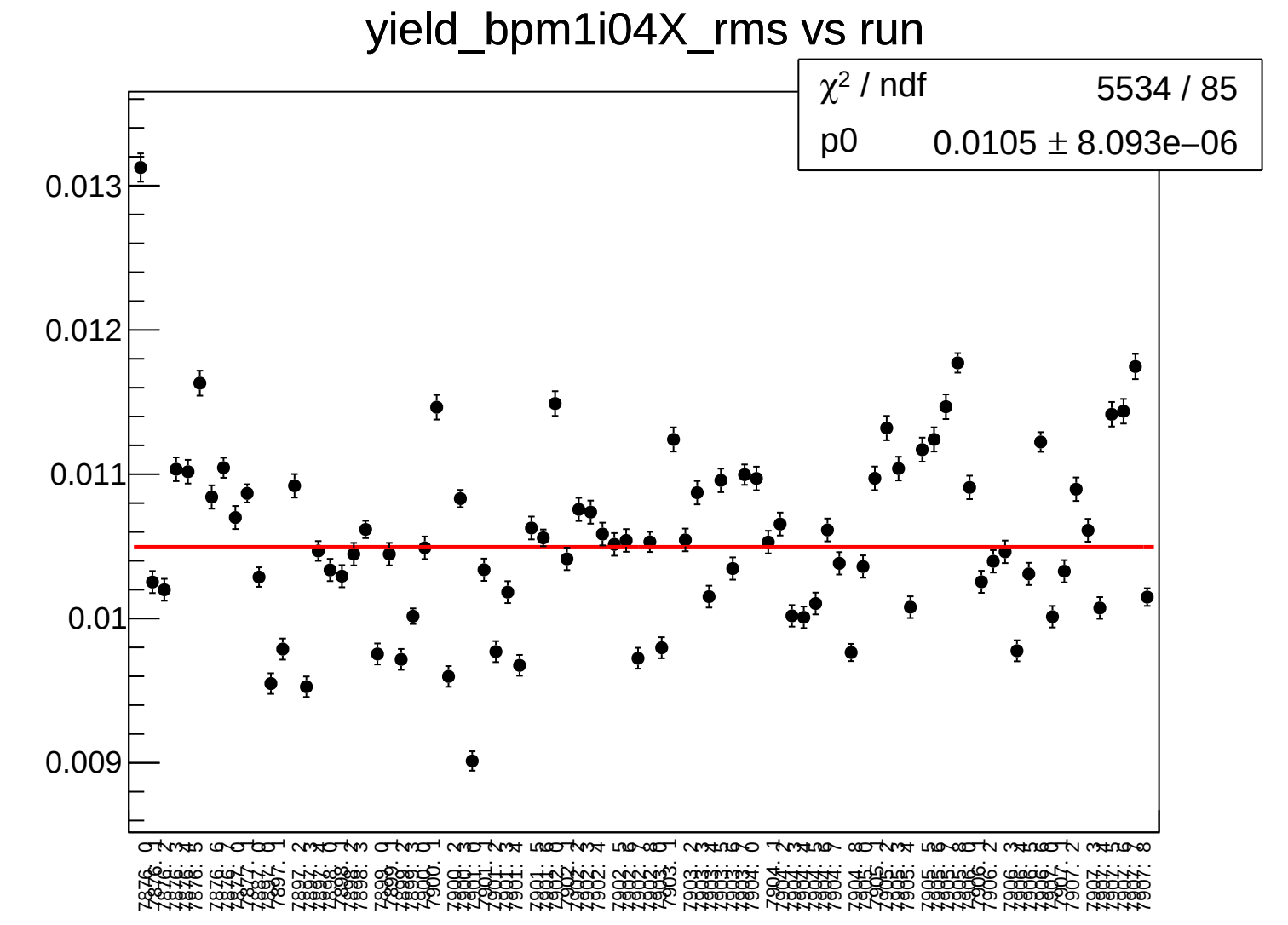

yield_bpm1i02Y_mean vs run
χ² / ndf 4.585e+06 / 85
p0 1.211± 8.244e−06
1.24
1.23
1.22
1.21
1.2
1.19
1.18
1.17
1.16
1.15
pull
Entries 86
Mean 2662
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

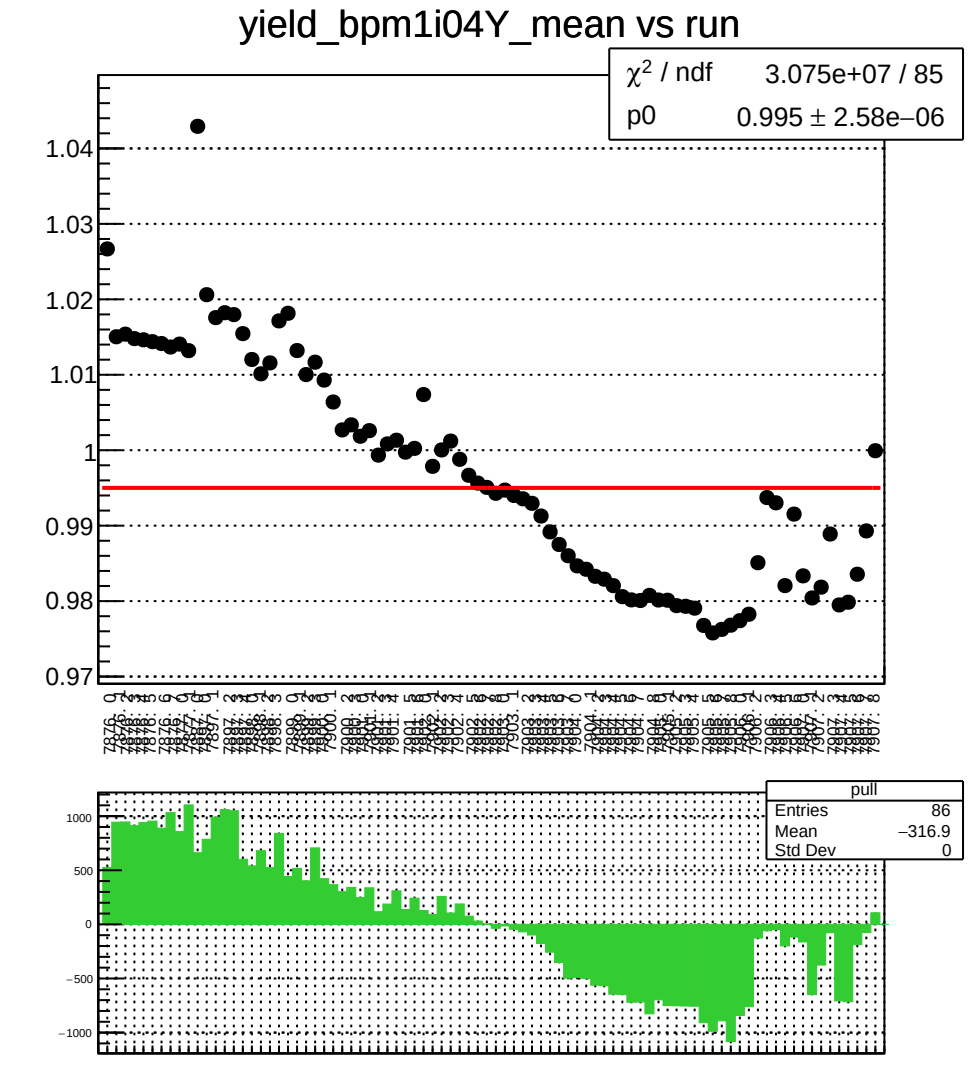

pull1D
Entries 86
Mean −5.523
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

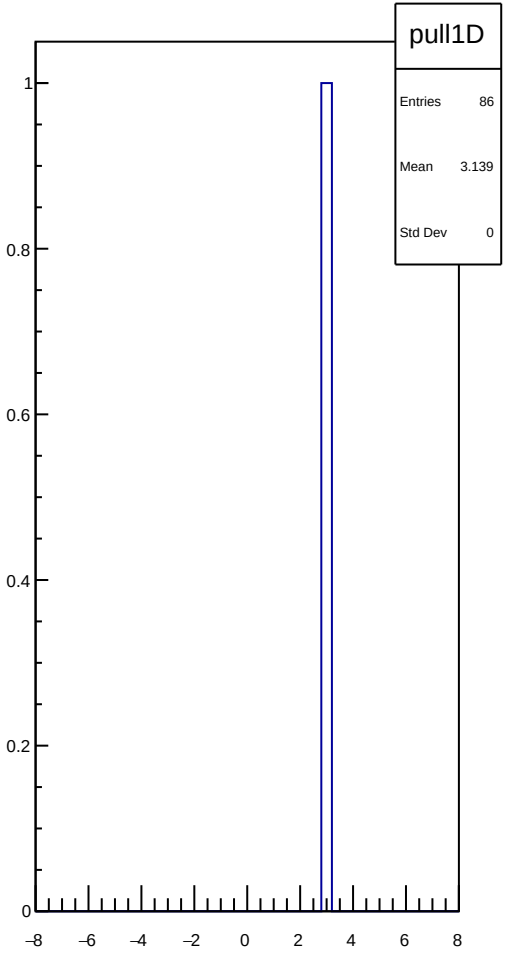

yield_bpm1i02Y_rms vs run
χ² / ndf 1.353e+04 / 85
p0 0.007543 ± 5.829e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

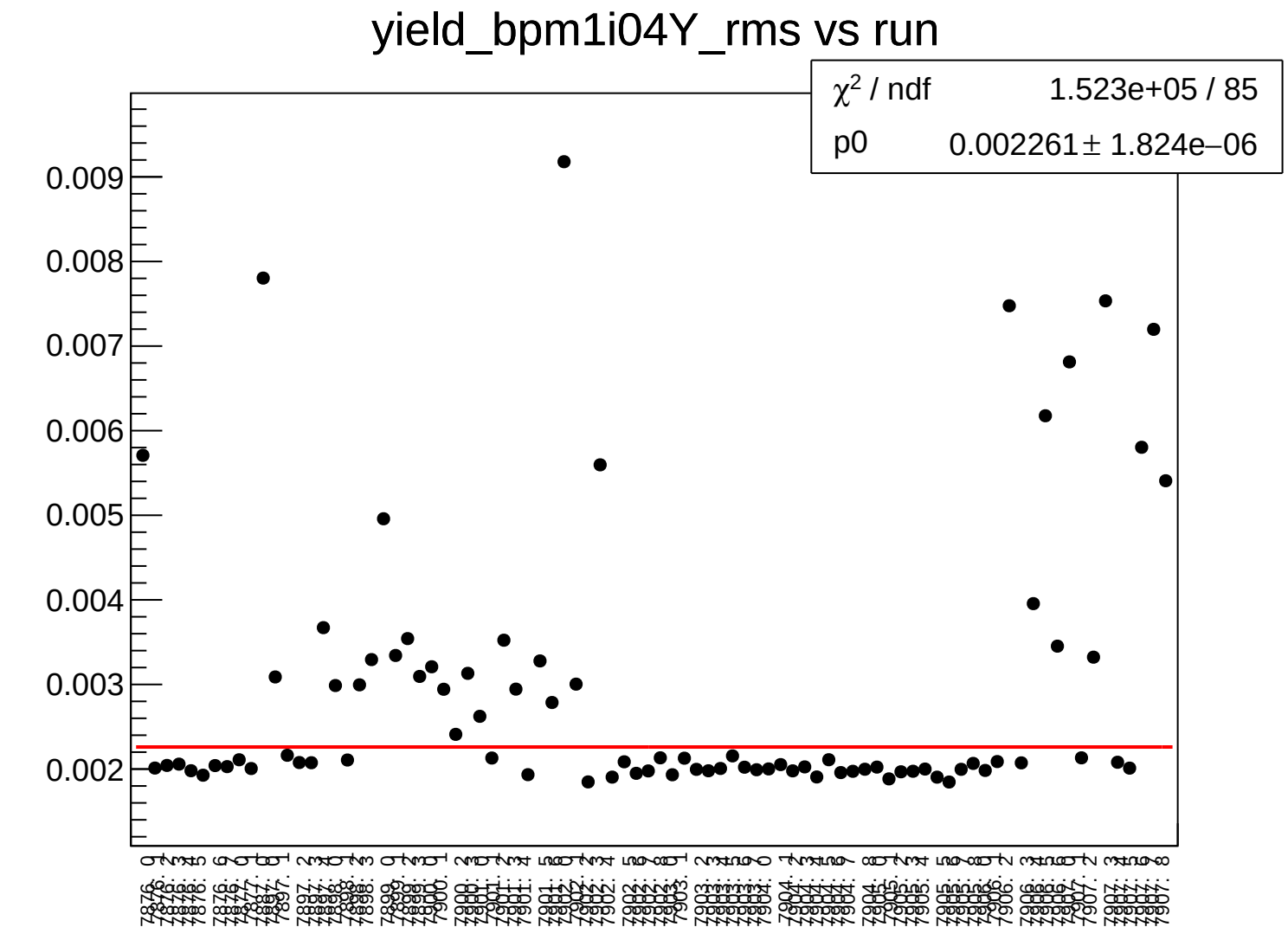

yield_bpm1i04X_mean vs run
χ² / ndf 4.815e+05 / 85
p0 0.07895 ± 1.145e−05
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06
pull
Entries 86
Mean 1993
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

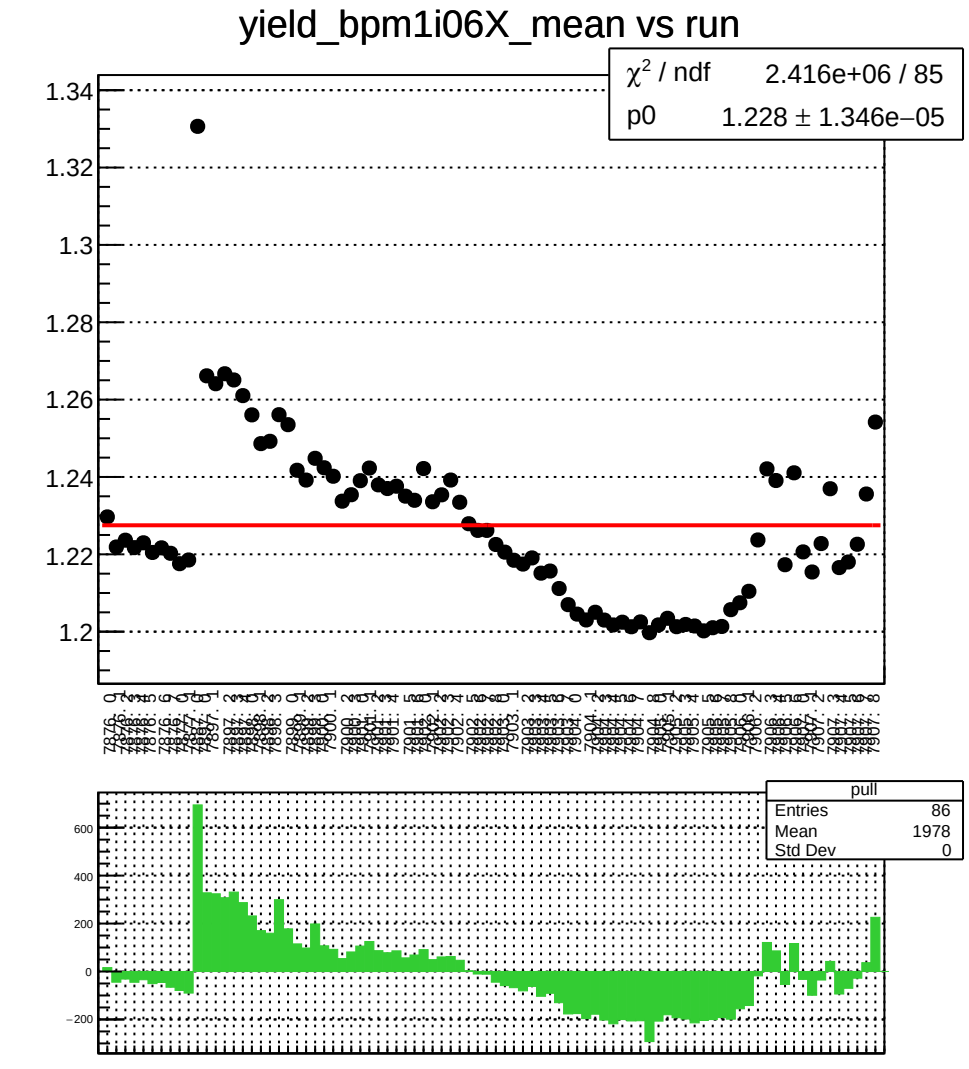

pull1D
Entries 86
Mean −0.7811
Std Dev 5.481
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

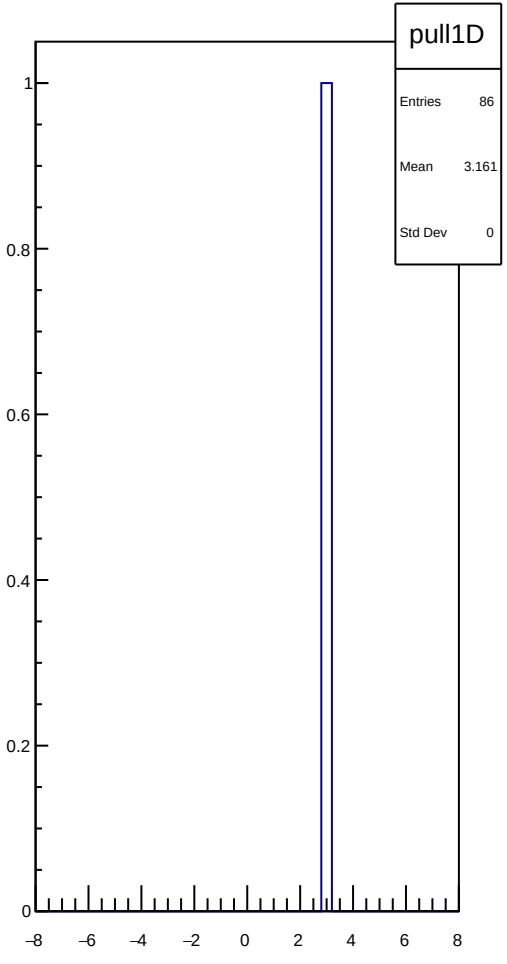

yield_bpm1i04X_rms vs run
χ² / ndf 5534 / 85
p0 0.0105 ± 8.093e−06
0.013
0.012
0.011
0.01
0.009

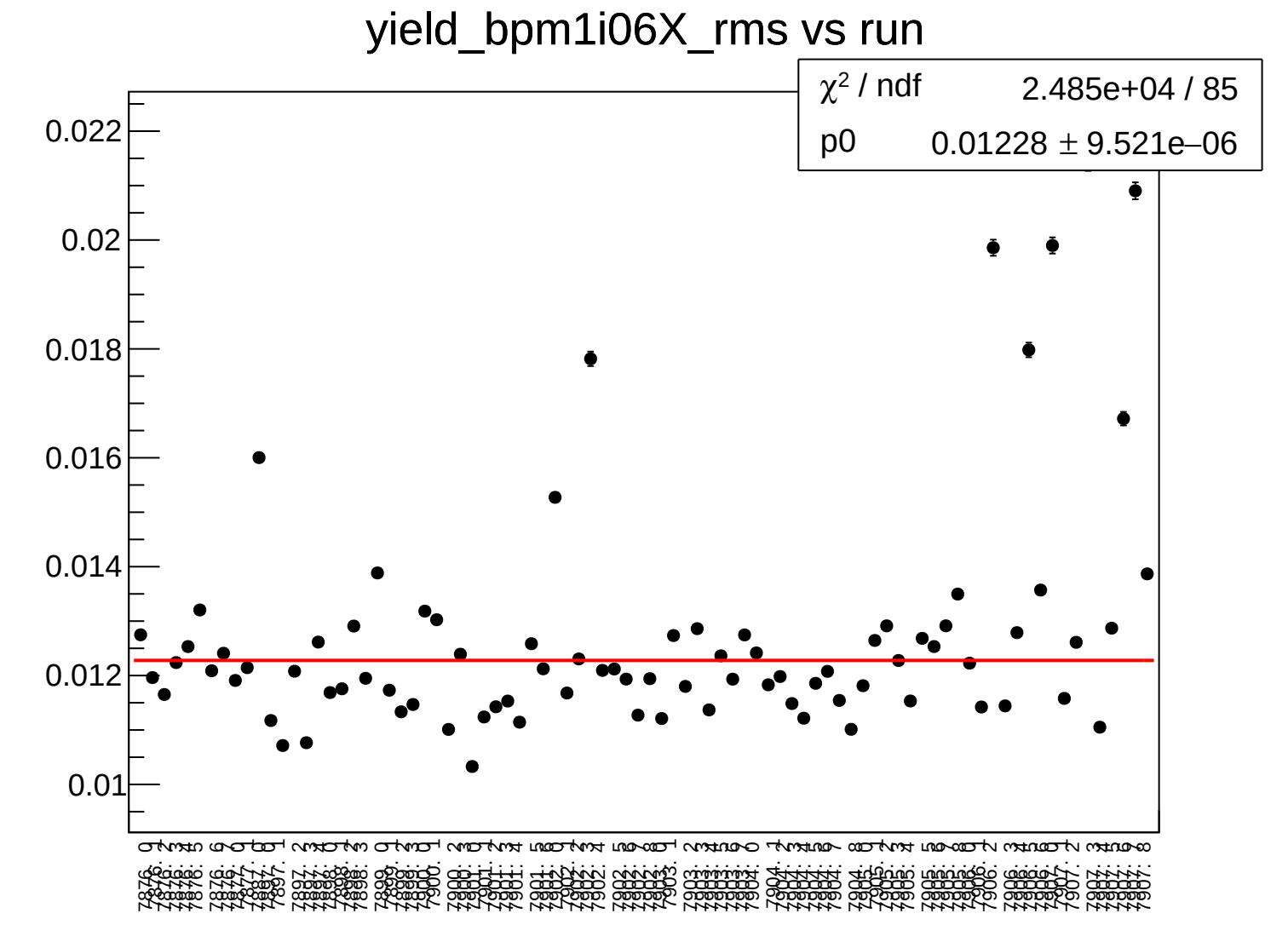

yield_bpm1i04Y_mean vs run
χ² / ndf 3.075e+07 / 85
p0 0.995 ± 2.58e−06
1.04
1.03
1.02
1.01
1
0.99
0.98
0.97
pull
Entries 86
Mean −316.9
Std Dev 0
1000
500
0
−500
−1000

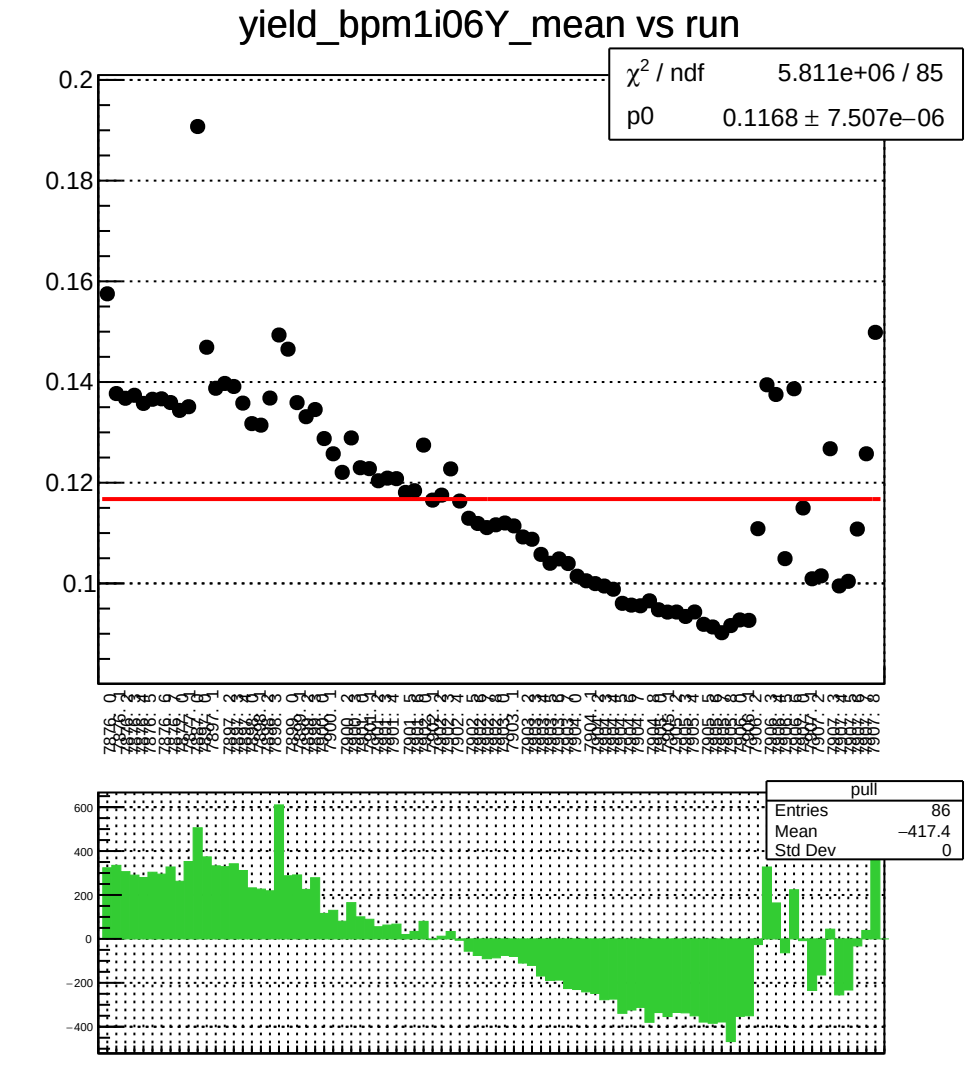

pull1D
Entries 86
Mean 3.139
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

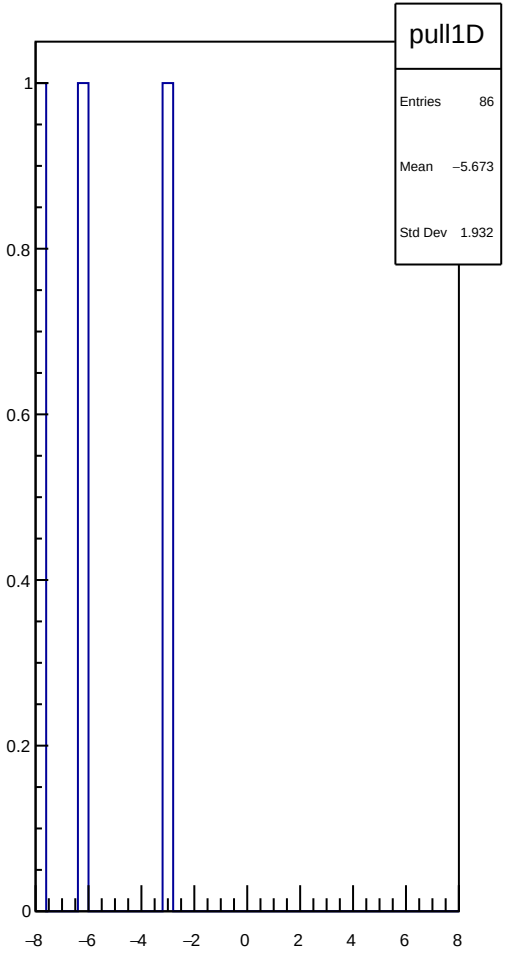

yield_bpm1i04Y_rms vs run
χ² / ndf 1.523e+05 / 85
p0 0.002261 ± 1.824e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

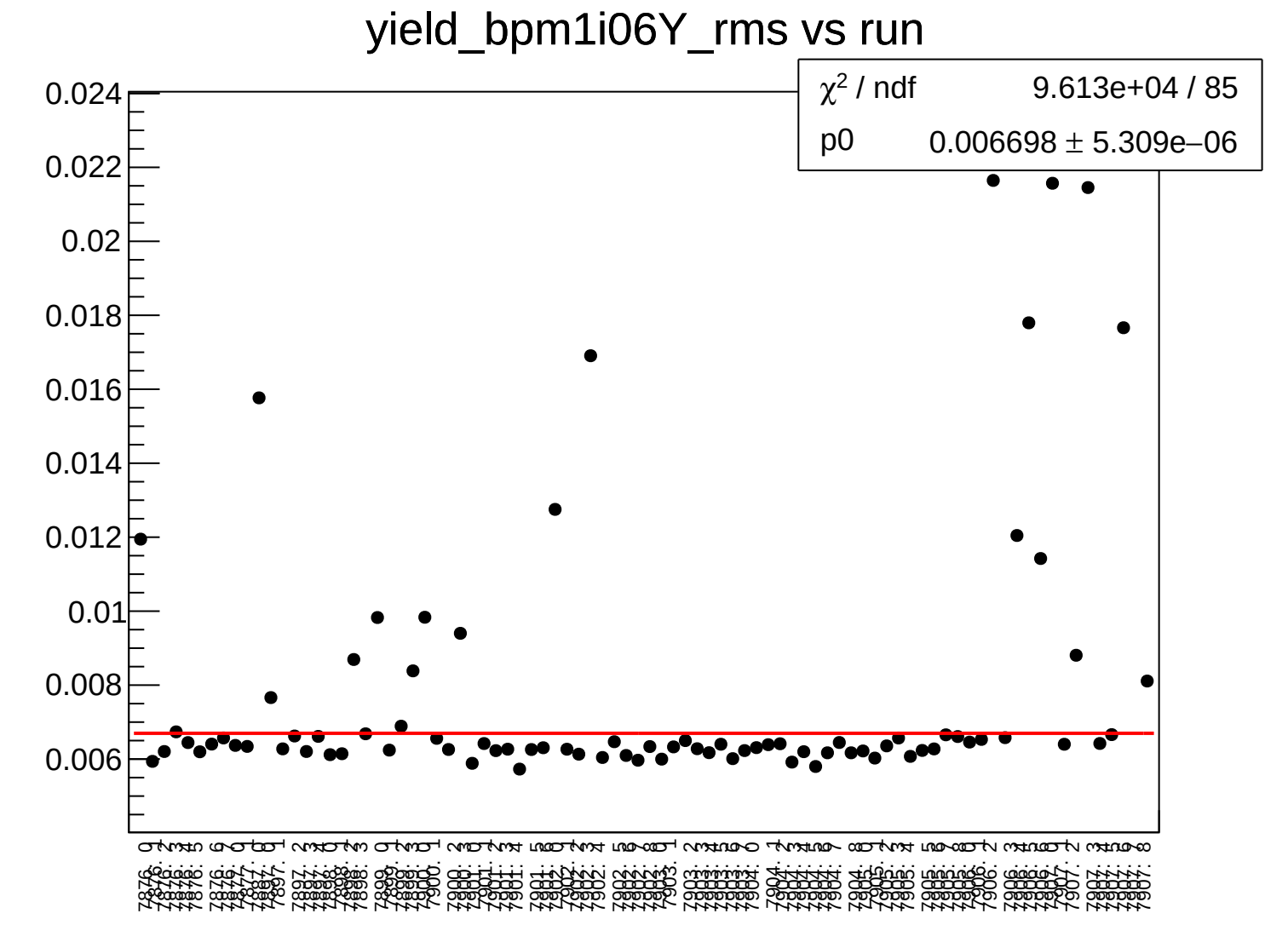

yield_bpm1i06X_mean vs run
χ² / ndf 2.416e+06 / 85
p0 1.228 ± 1.346e−05
1.34
1.32
1.3
1.28
1.26
1.24
1.22
1.2
pull
Entries 86
Mean 1978
Std Dev 0
600
400
200
0
−200

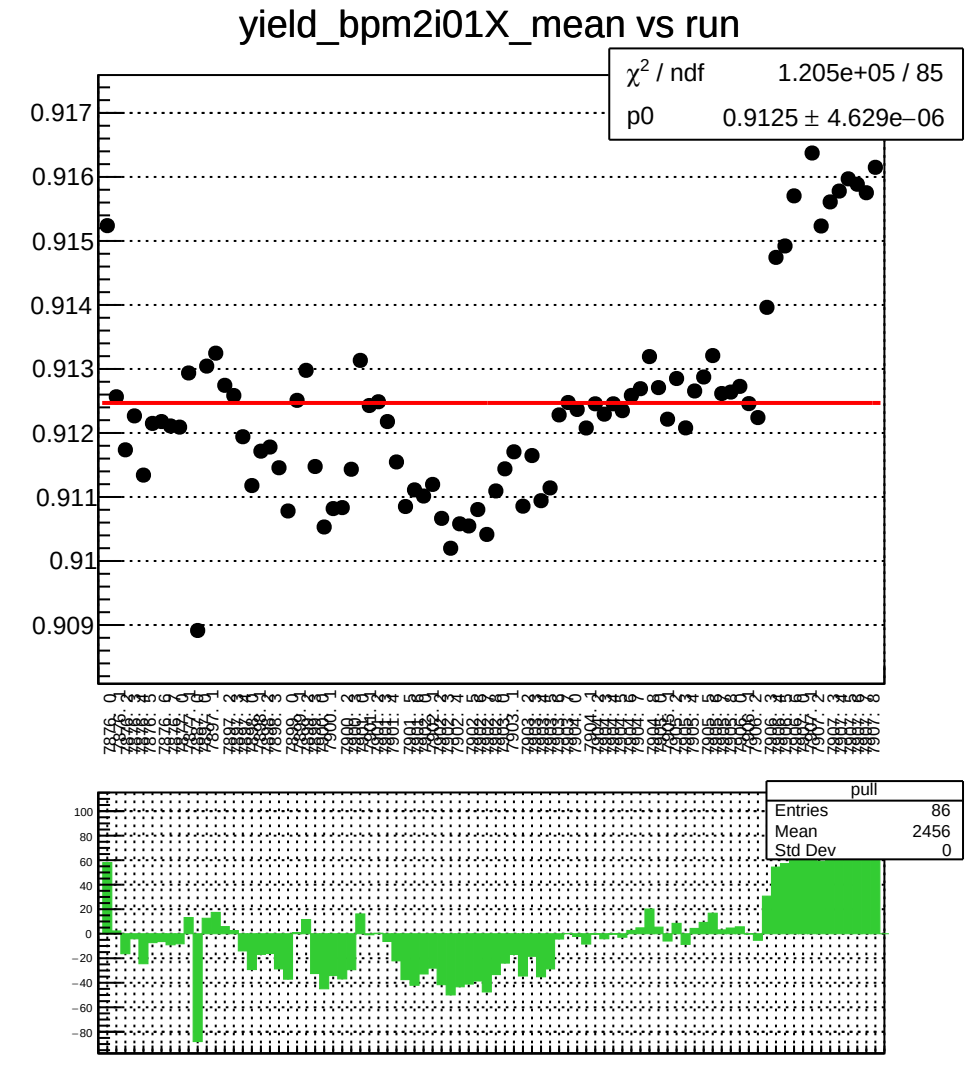

pull1D
Entries 86
Mean 3.161
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

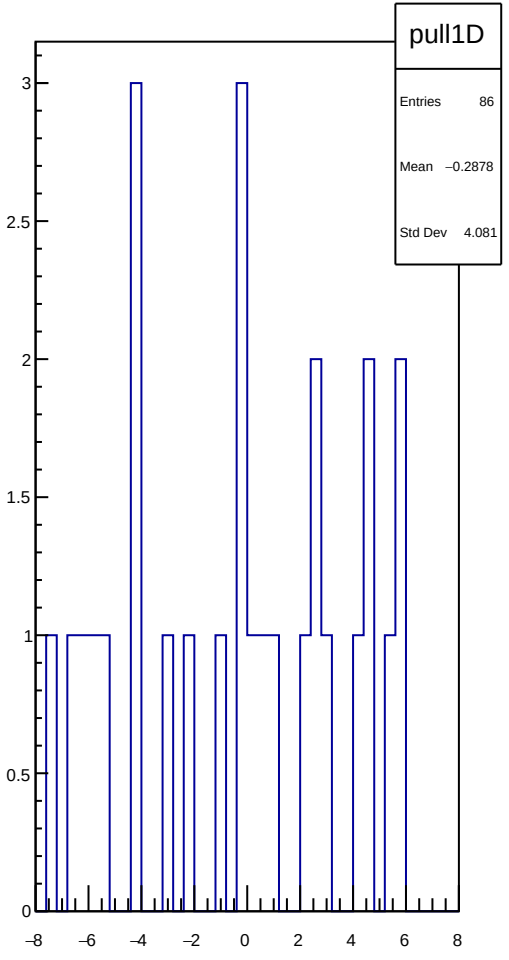

yield_bpm1i06X_rms vs run
χ² / ndf 2.485e+04 / 85
p0 0.01228 ± 9.521e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

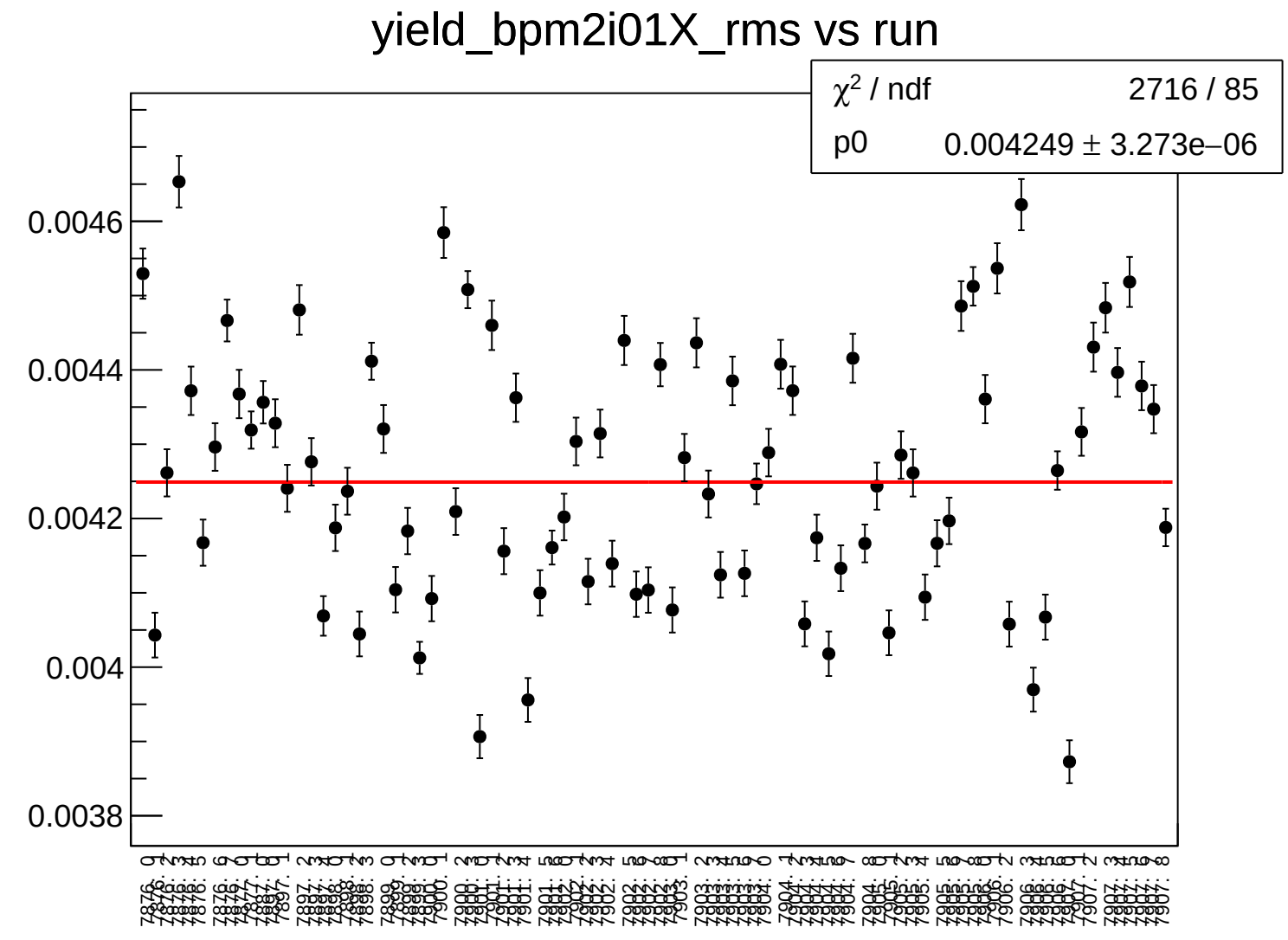

yield_bpm1i06Y_mean vs run
χ² / ndf 5.811e+06 / 85
p0 0.1168 ± 7.507e−06
0.2
0.18
0.16
0.14
0.12
0.1
pull
Entries 86
Mean −417.4
Std Dev 0
600
400
200
0
−200
−400

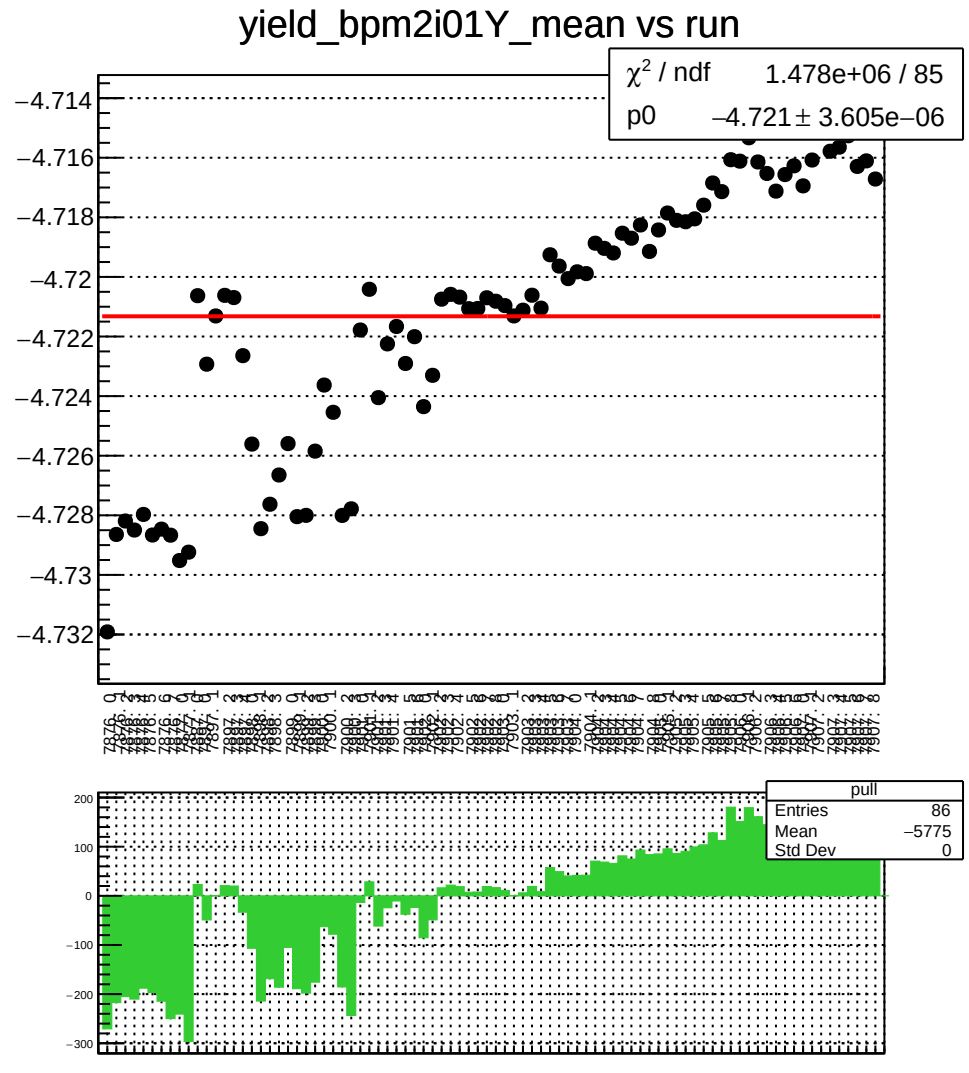

pull1D
Entries 86
Mean −5.673
Std Dev 1.932
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

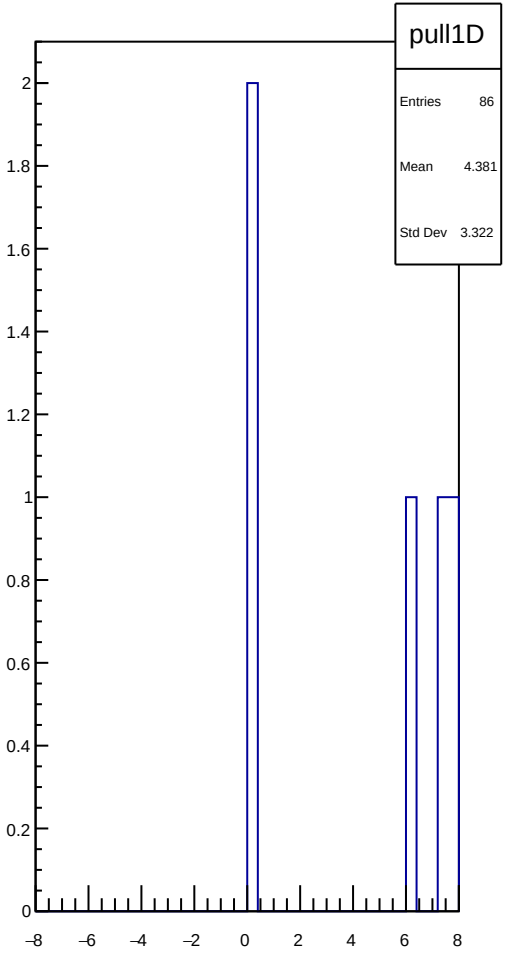

yield_bpm1i06Y_rms vs run
χ² / ndf 9.613e+04 / 85
p0 0.006698 ± 5.309e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

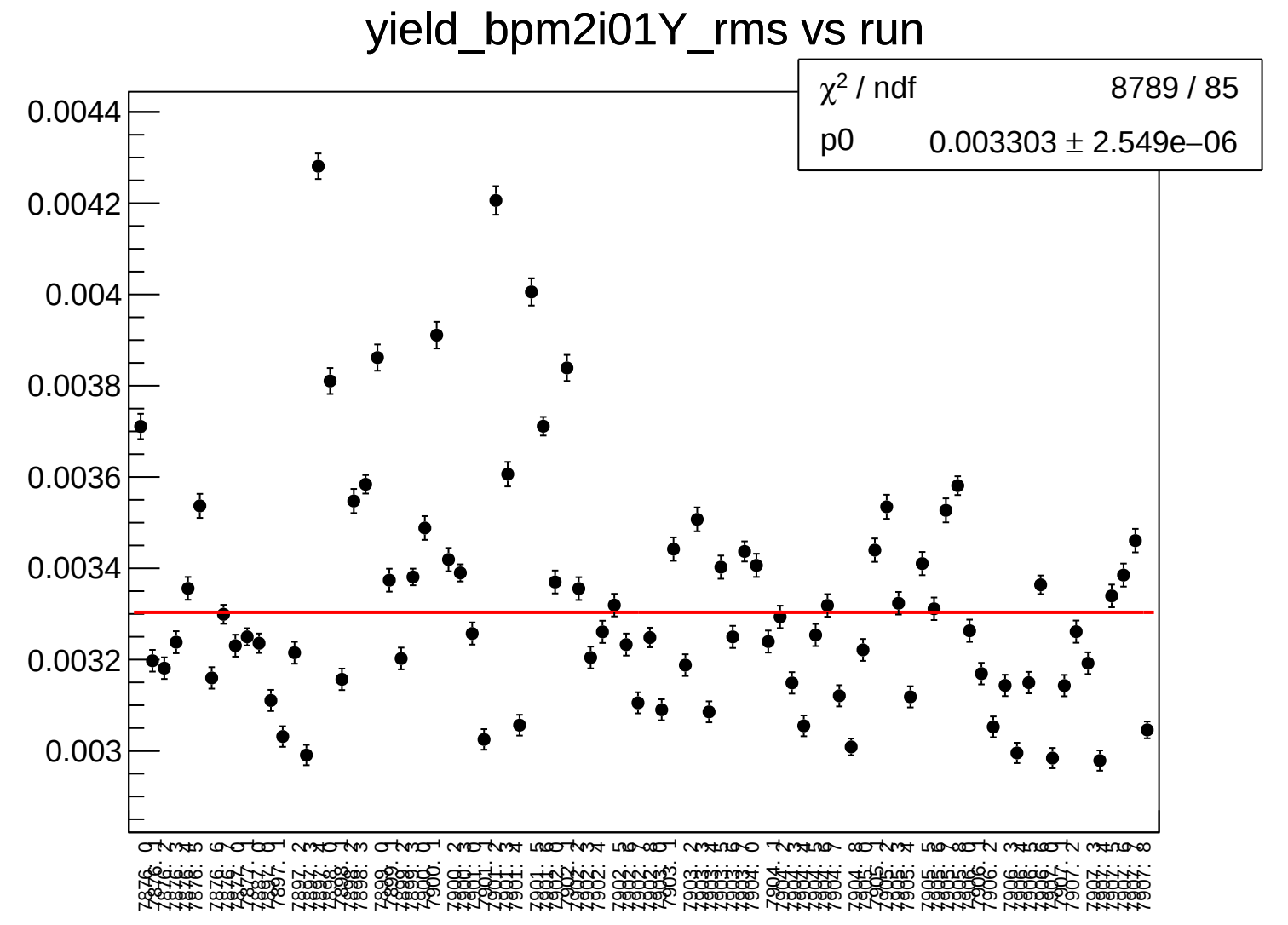

yield_bpm2i01X_mean vs run
χ² / ndf 1.205e+05 / 85
p0 0.9125 ± 4.629e−06
0.917
0.916
0.915
0.914
0.913
0.912
0.911
0.91
0.909
pull
Entries 86
Mean 2456
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

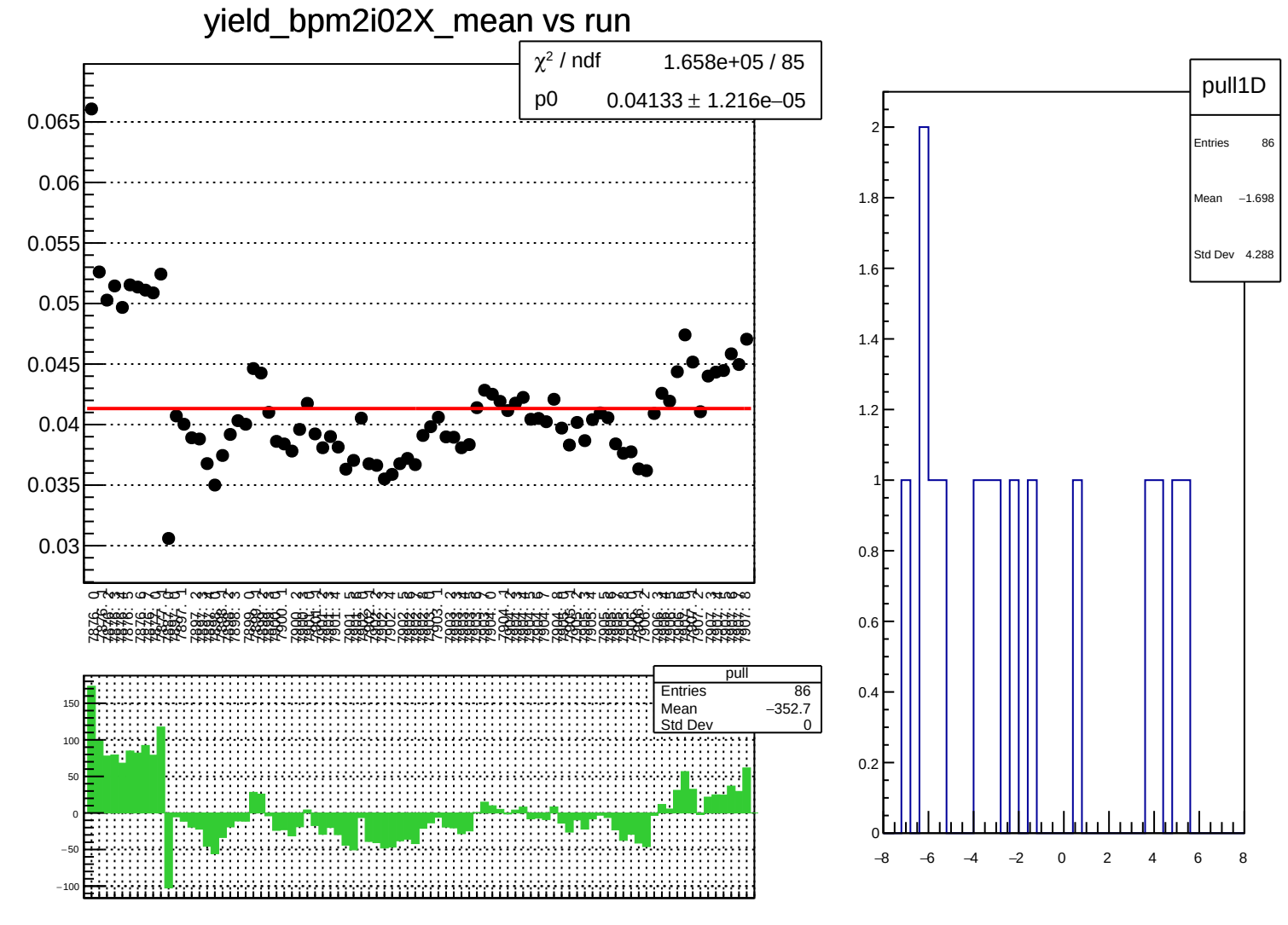

pull1D
Entries 86
Mean −0.2878
Std Dev 4.081
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

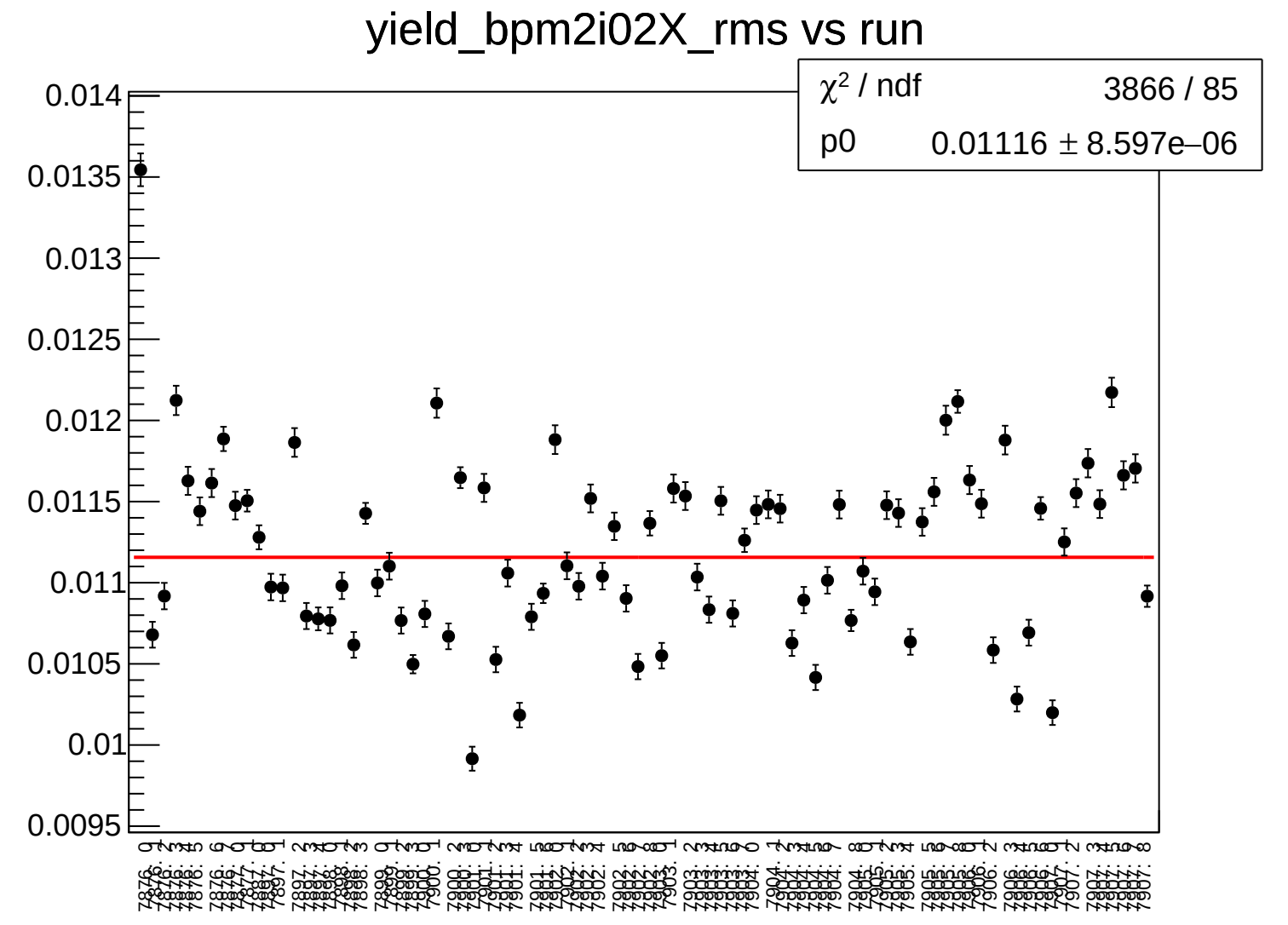

yield_bpm2i01X_rms vs run
χ² / ndf 2716 / 85
p0 0.004249 ± 3.273e−06
0.0046
0.0044
0.0042
0.004
0.0038

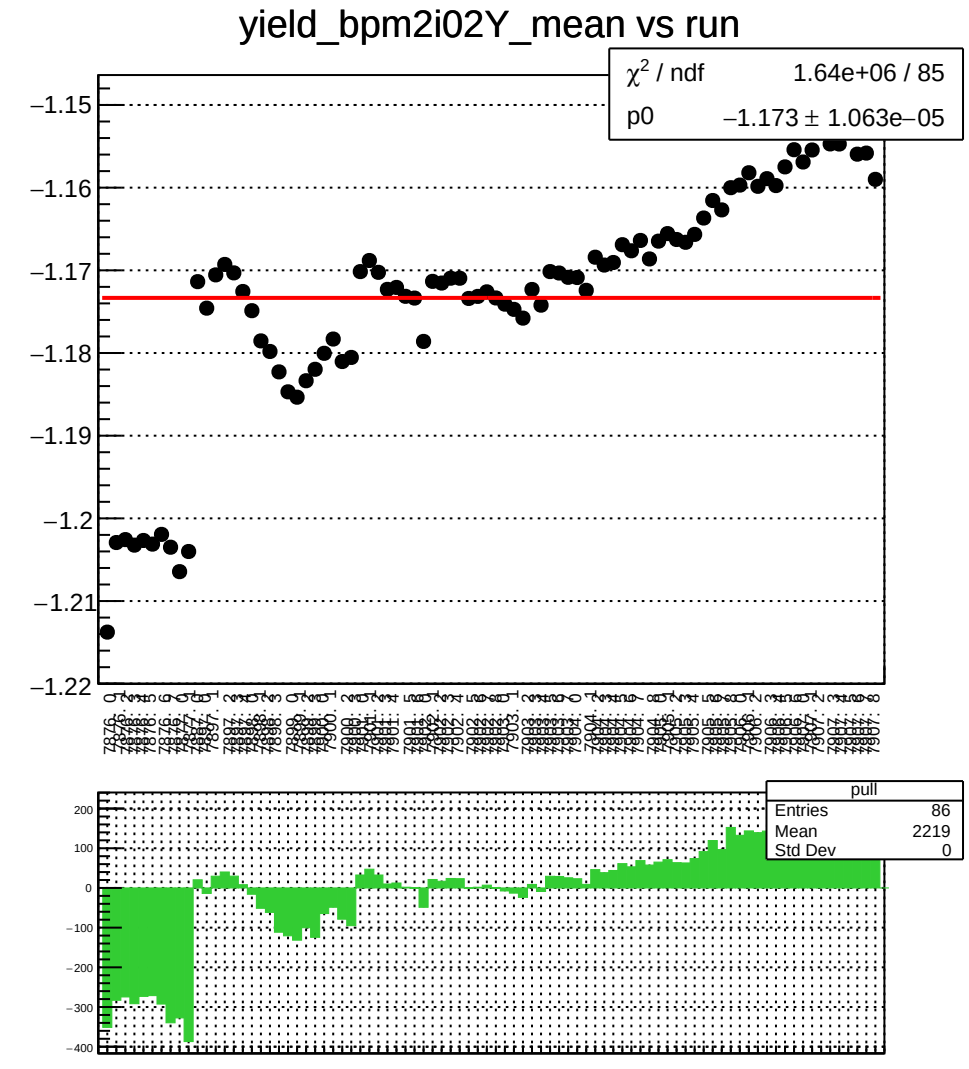

yield_bpm2i01Y_mean vs run
χ² / ndf 1.478e+06 / 85
p0 −4.721 ± 3.605e−06
−4.714
−4.716
−4.718
−4.72
−4.722
−4.724
−4.726
−4.728
−4.73
−4.732
pull
Entries 86
Mean −5775
Std Dev 0
200
100
0
−100
−200
−300

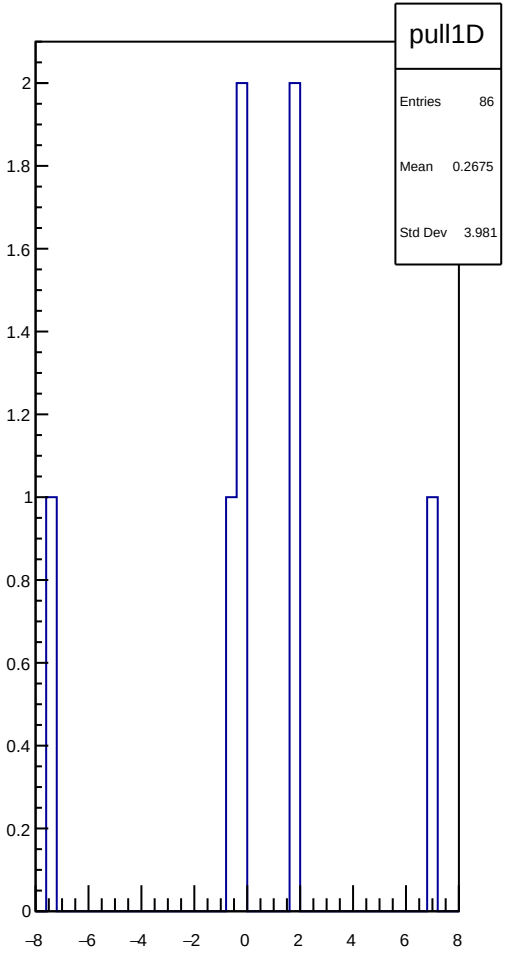

pull1D
Entries 86
Mean 4.381
Std Dev 3.322
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

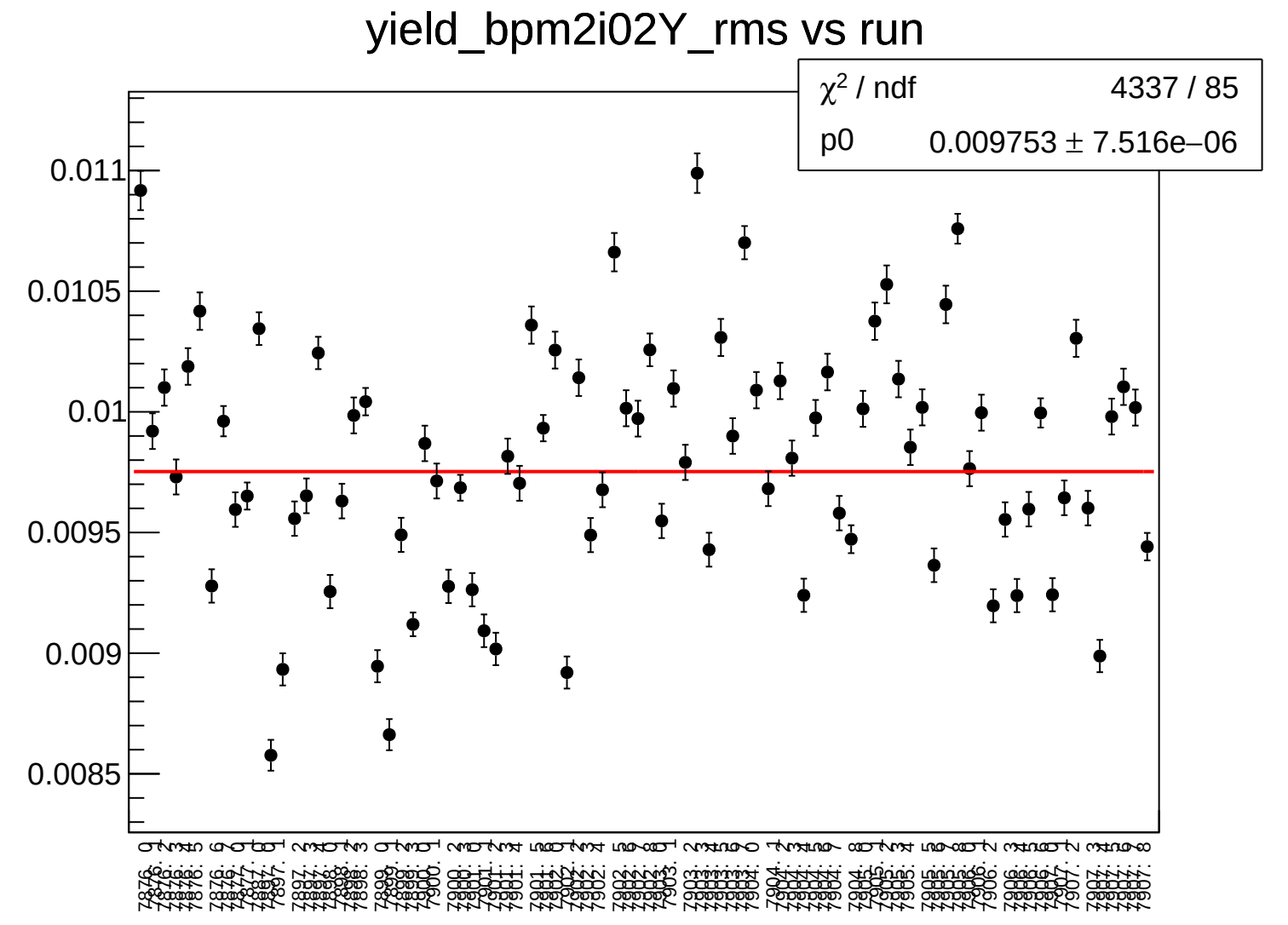

yield_bpm2i01Y_rms vs run
χ² / ndf 8789 / 85
p0 0.003303 ± 2.549e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

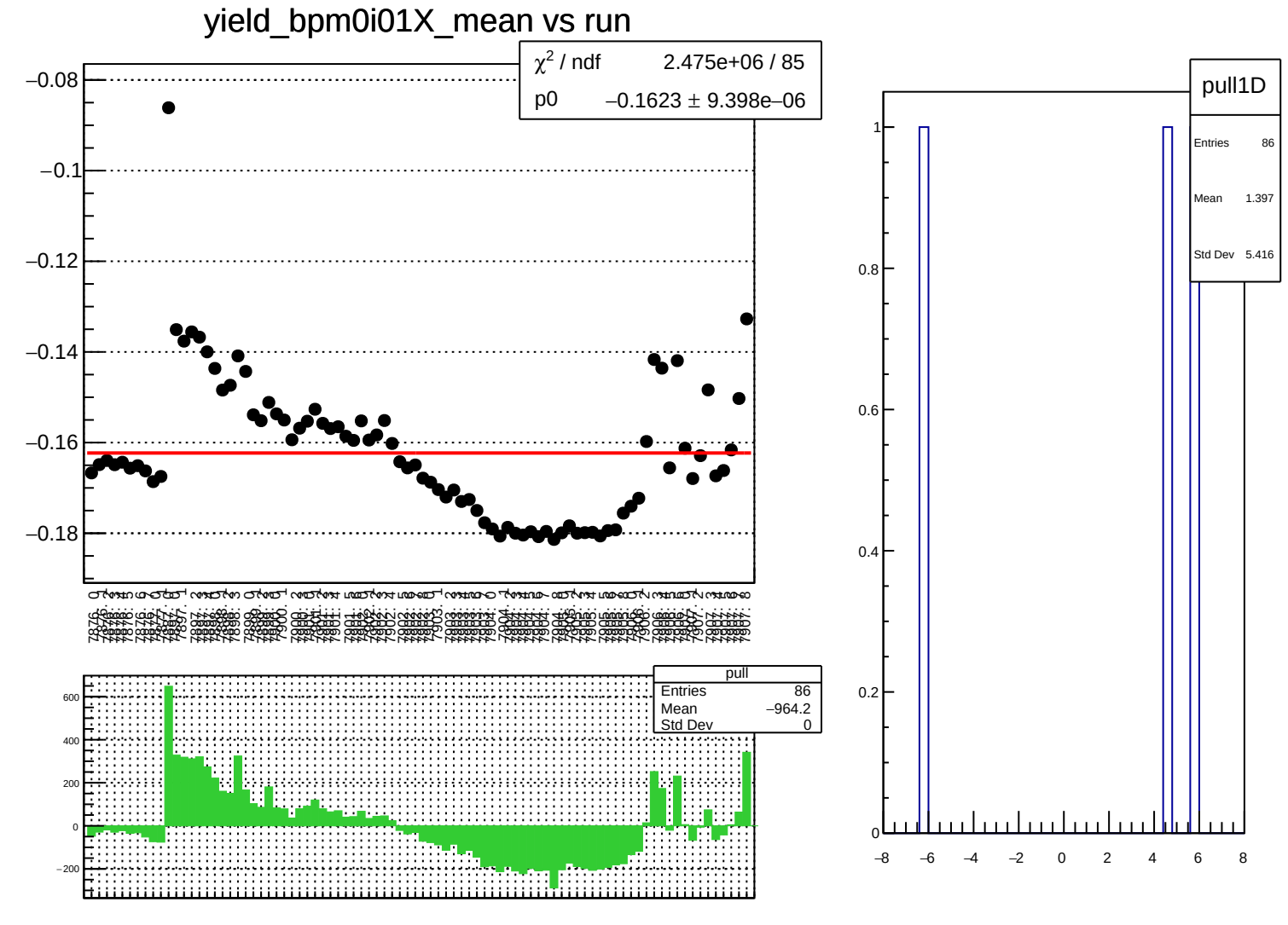

yield_bpm2i02X_mean vs run
χ² / ndf 1.658e+05 / 85
p0 0.04133 ± 1.216e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
pull
Entries 86
Mean −352.7
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 86
Mean −1.698
Std Dev 4.288
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

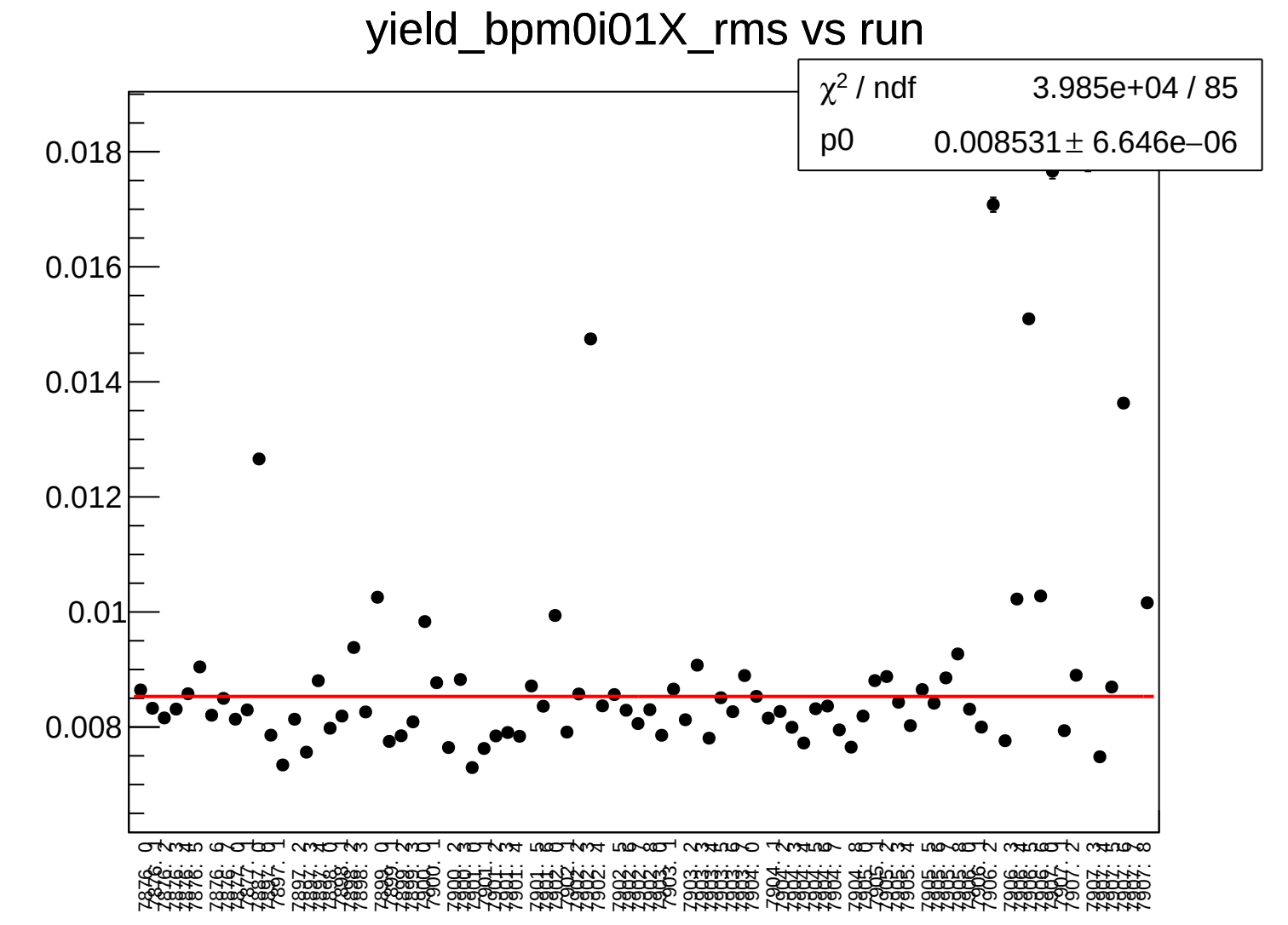

yield_bpm2i02X_rms vs run
χ² / ndf 3866 / 85
p0 0.01116 ± 8.597e–06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

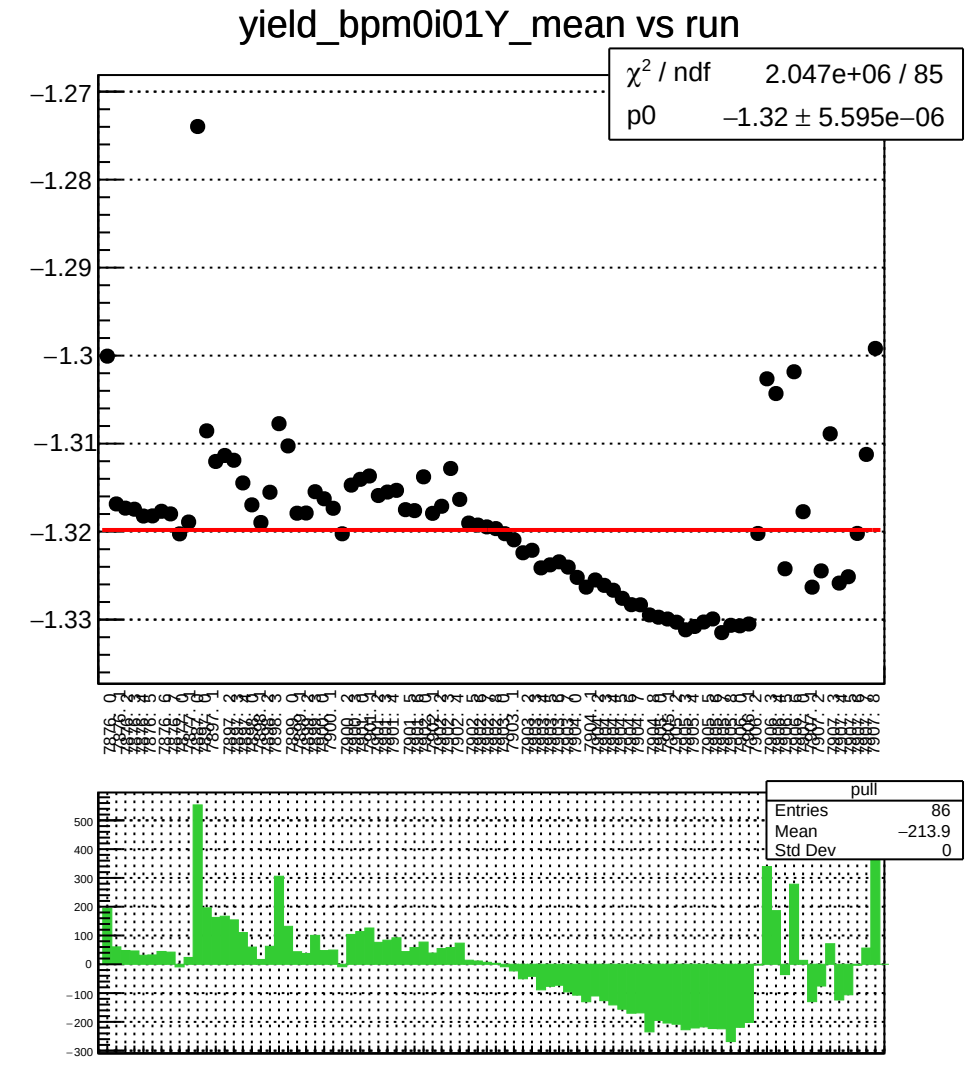

yield_bpm2i02Y_mean vs run
χ² / ndf 1.64e+06 / 85
p0 −1.173 ± 1.063e−05
−1.15
−1.16
−1.17
−1.18
−1.19
−1.2
−1.21
−1.22
pull
Entries 86
Mean 2219
Std Dev 0
200
100
0
−100
−200
−300
−400

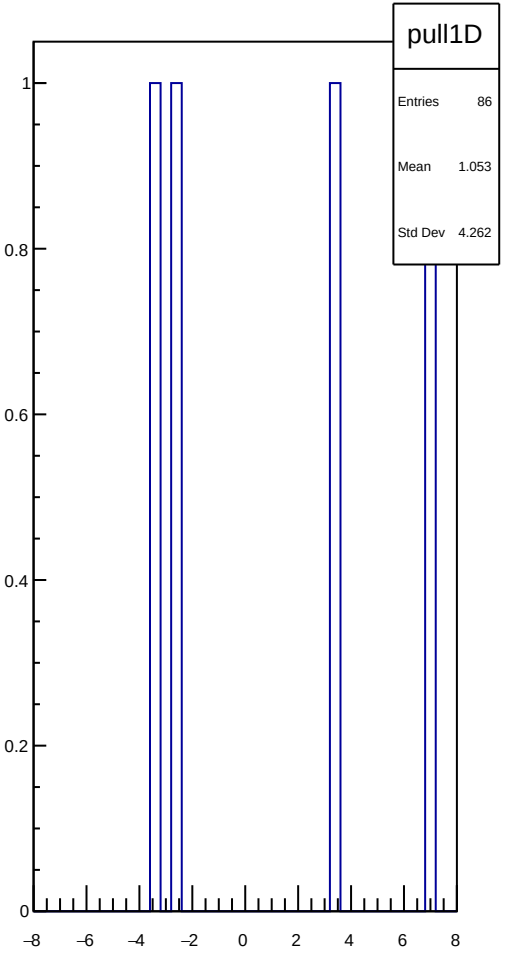

pull1D
Entries 86
Mean 0.2675
Std Dev 3.981
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

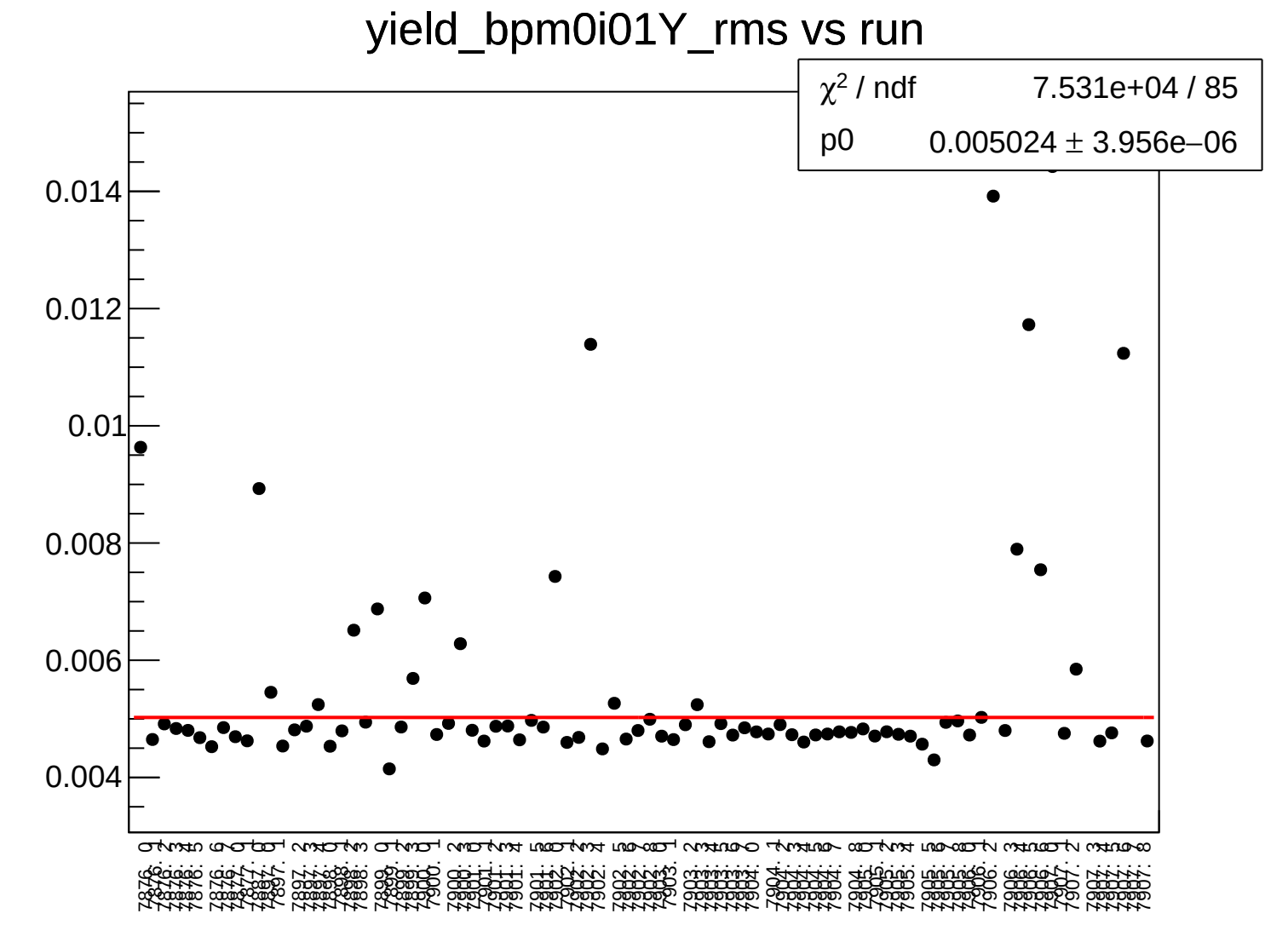

yield_bpm2i02Y_rms vs run
χ² / ndf 4337 / 85
p0 0.009753 ± 7.516e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085

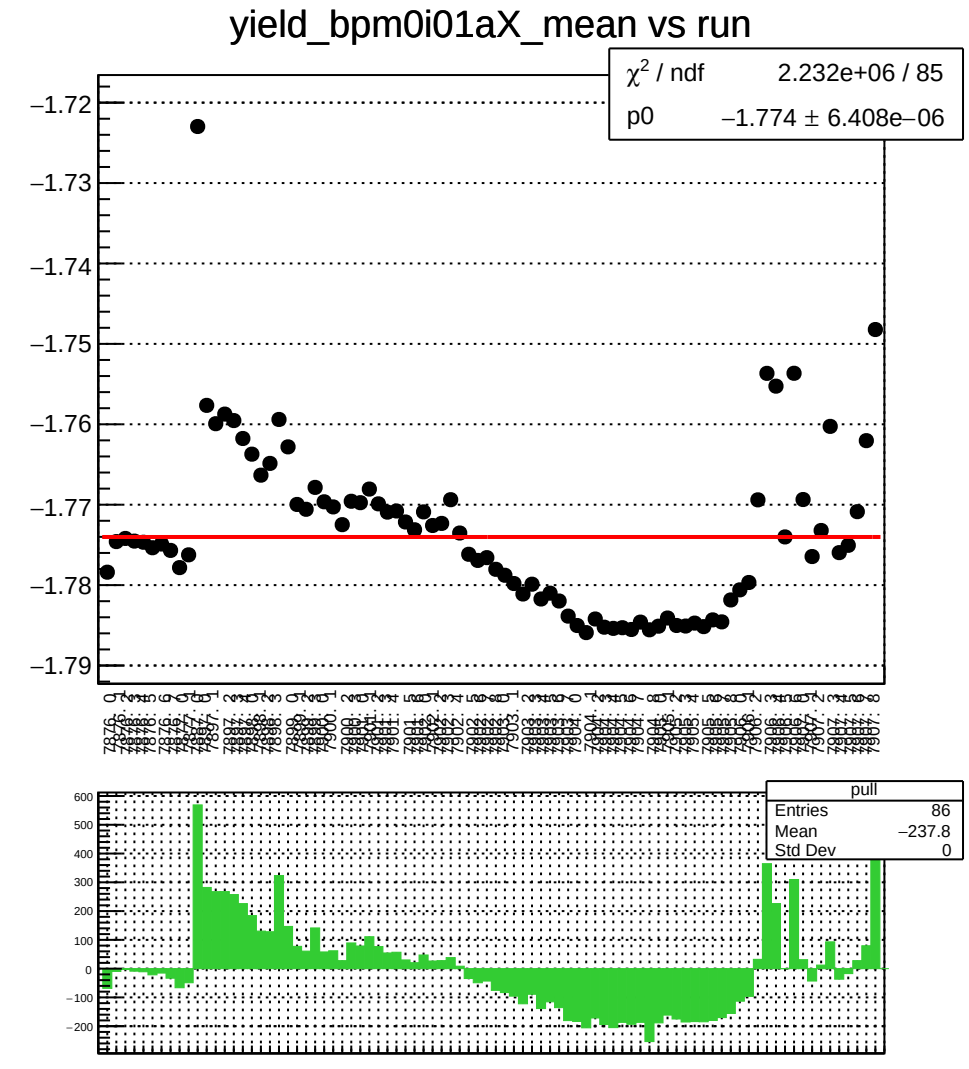

yield_bpm0i01X_mean vs run
χ² / ndf 2.475e+06 / 85
p0 −0.1623 ± 9.398e−06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 86
Mean −964.2
Std Dev 0
600
400
200
0
−200
pull1D
Entries 86
Mean 1.397
Std Dev 5.416
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

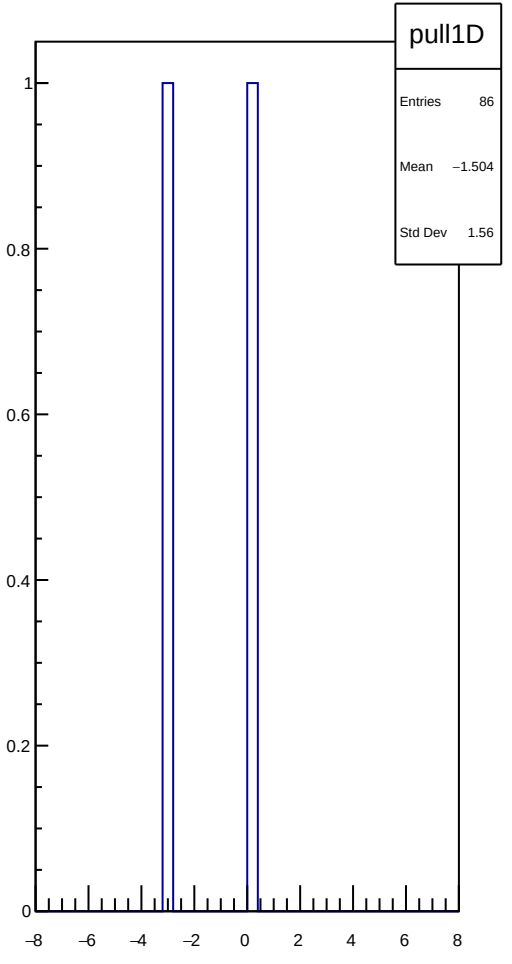

yield_bpm0i01X_rms vs run
χ² / ndf 3.985e+04 / 85
p0 0.008531 ± 6.646e−06
0.018
0.016
0.014
0.012
0.01
0.008

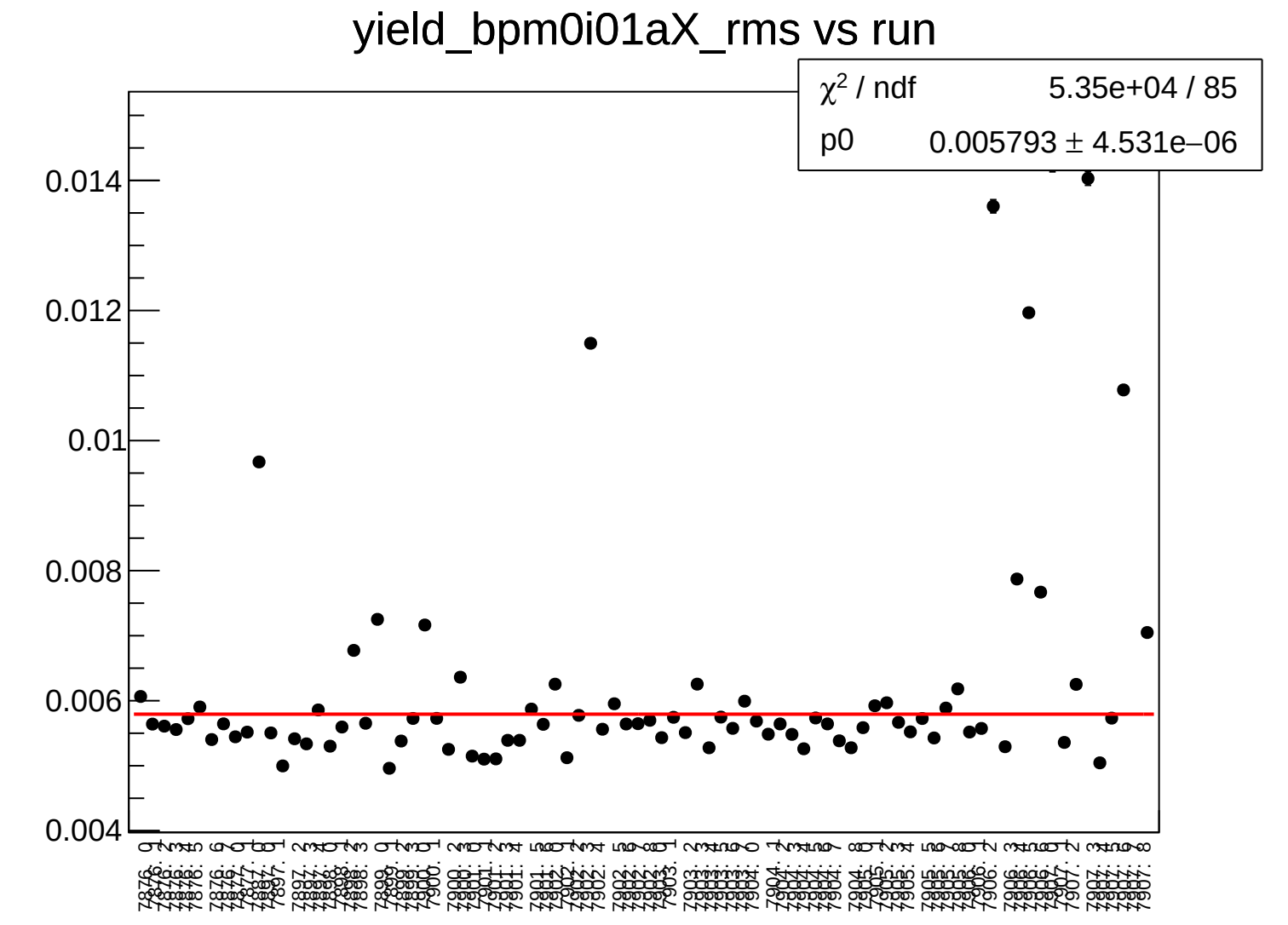

yield_bpm0i01Y_mean vs run
χ² / ndf 2.047e+06 / 85
p0 −1.32 ± 5.595e−06
−1.27
−1.28
−1.29
−1.3
−1.31
−1.32
−1.33
pull
Entries 86
Mean −213.9
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

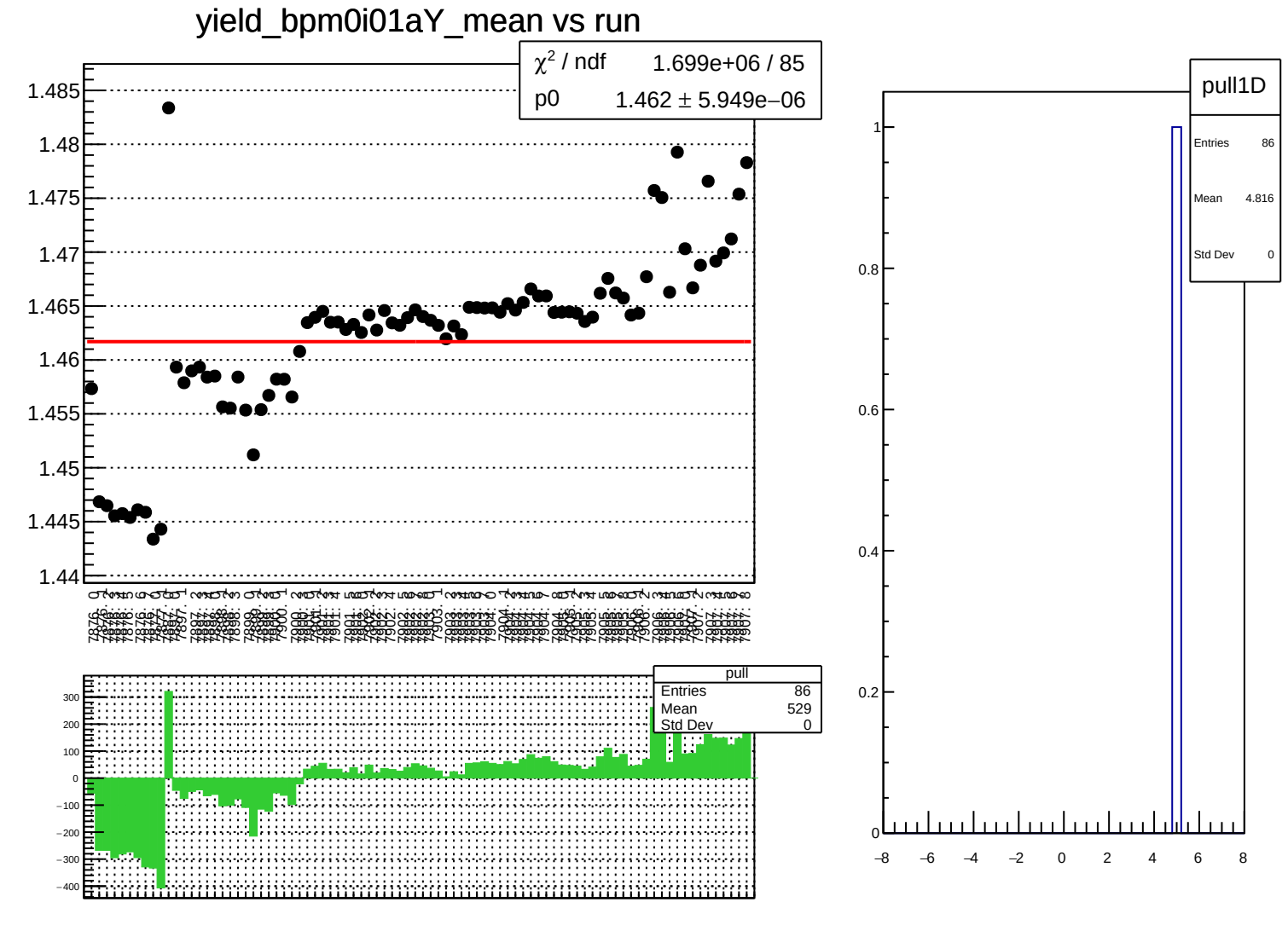

pull1D
Entries 86
Mean 1.053
Std Dev 4.262
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

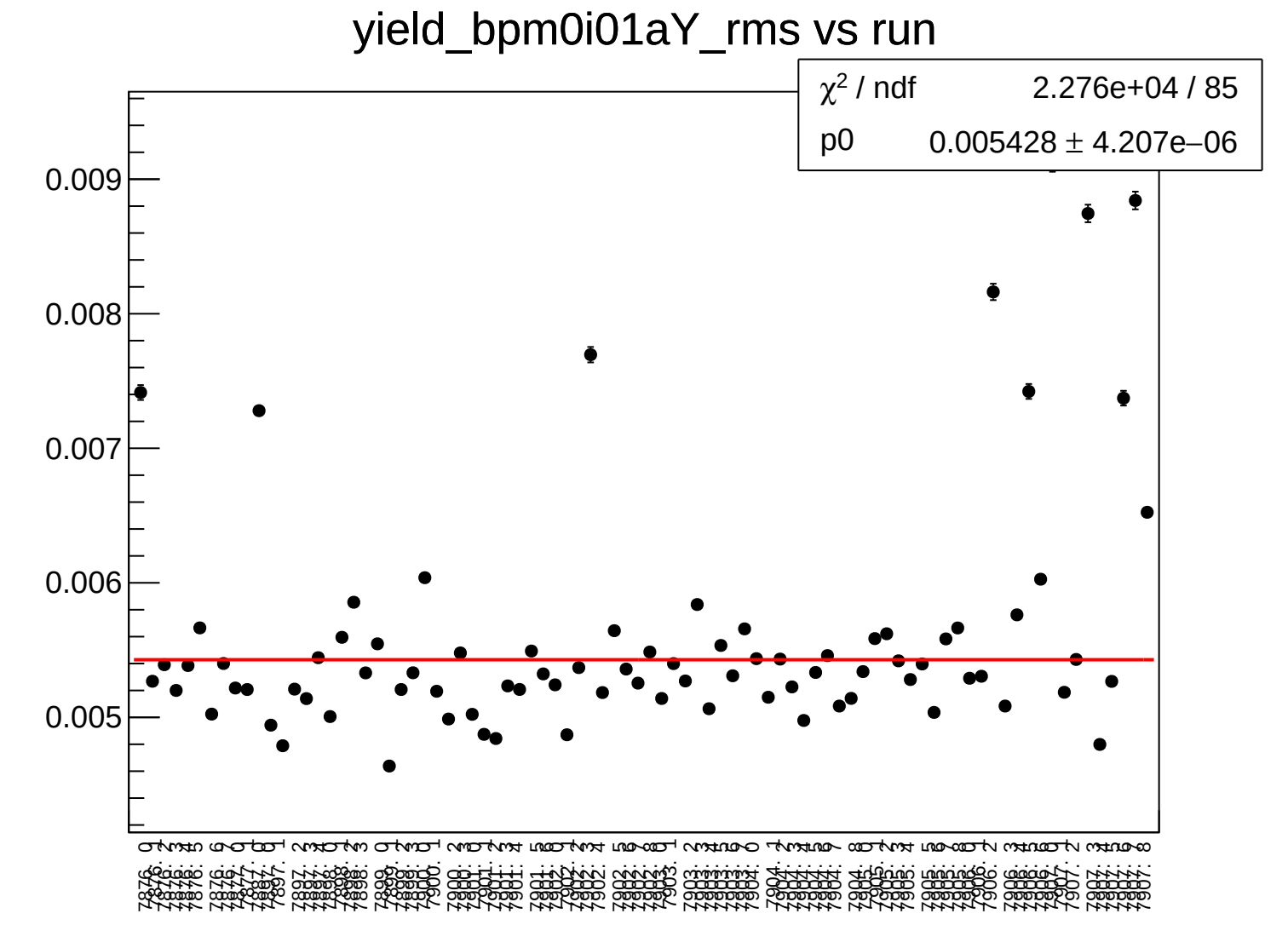

yield_bpm0i01Y_rms vs run
χ^2 / ndf 7.531e+04 / 85
p0 0.005024 ± 3.956e−06
0.014
0.012
0.01
0.008
0.006
0.004

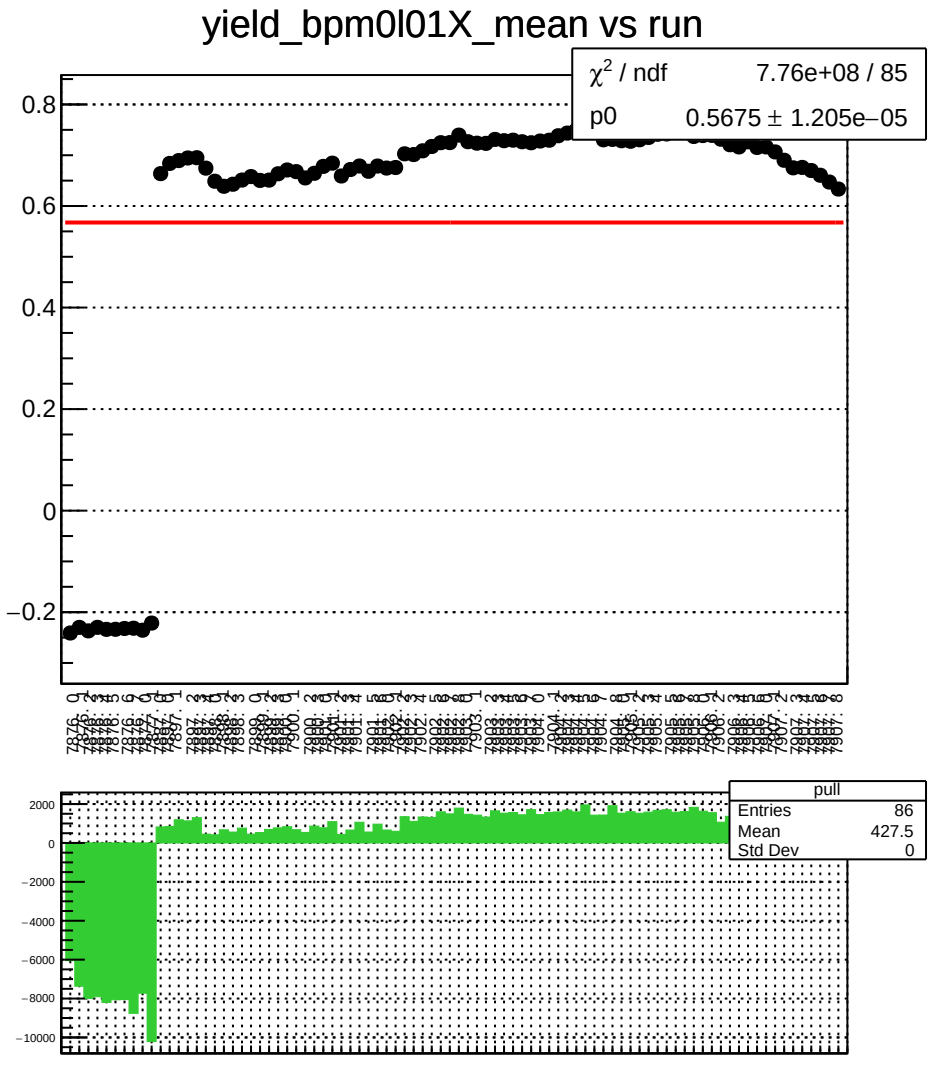

yield_bpm0i01aX_mean vs run
χ² / ndf 2.232e+06 / 85
p0 −1.774 ± 6.408e−06
−1.72
−1.73
−1.74
−1.75
−1.76
−1.77
−1.78
−1.79
pull
Entries 86
Mean −237.8
Std Dev 0
600
500
400
300
200
100
0
−100
−200

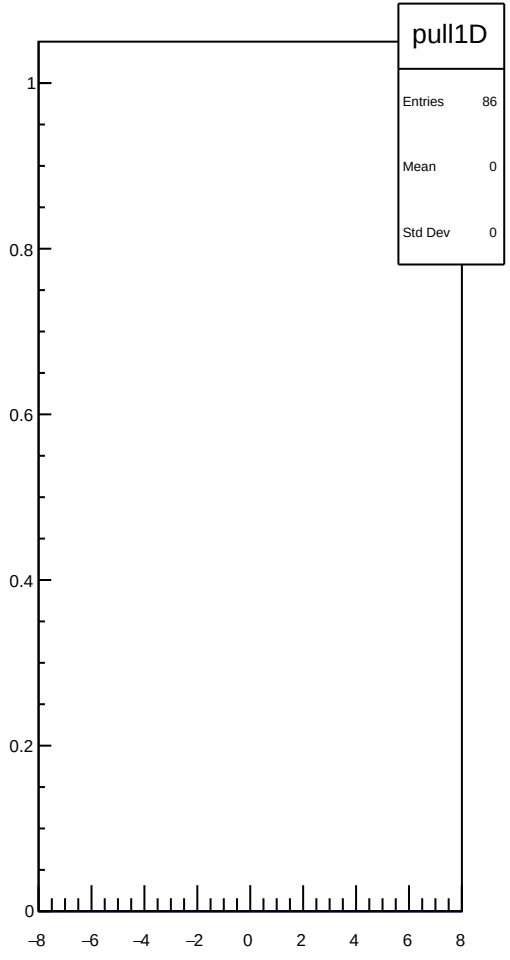

pull1D
Entries 86
Mean −1.504
Std Dev 1.56
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

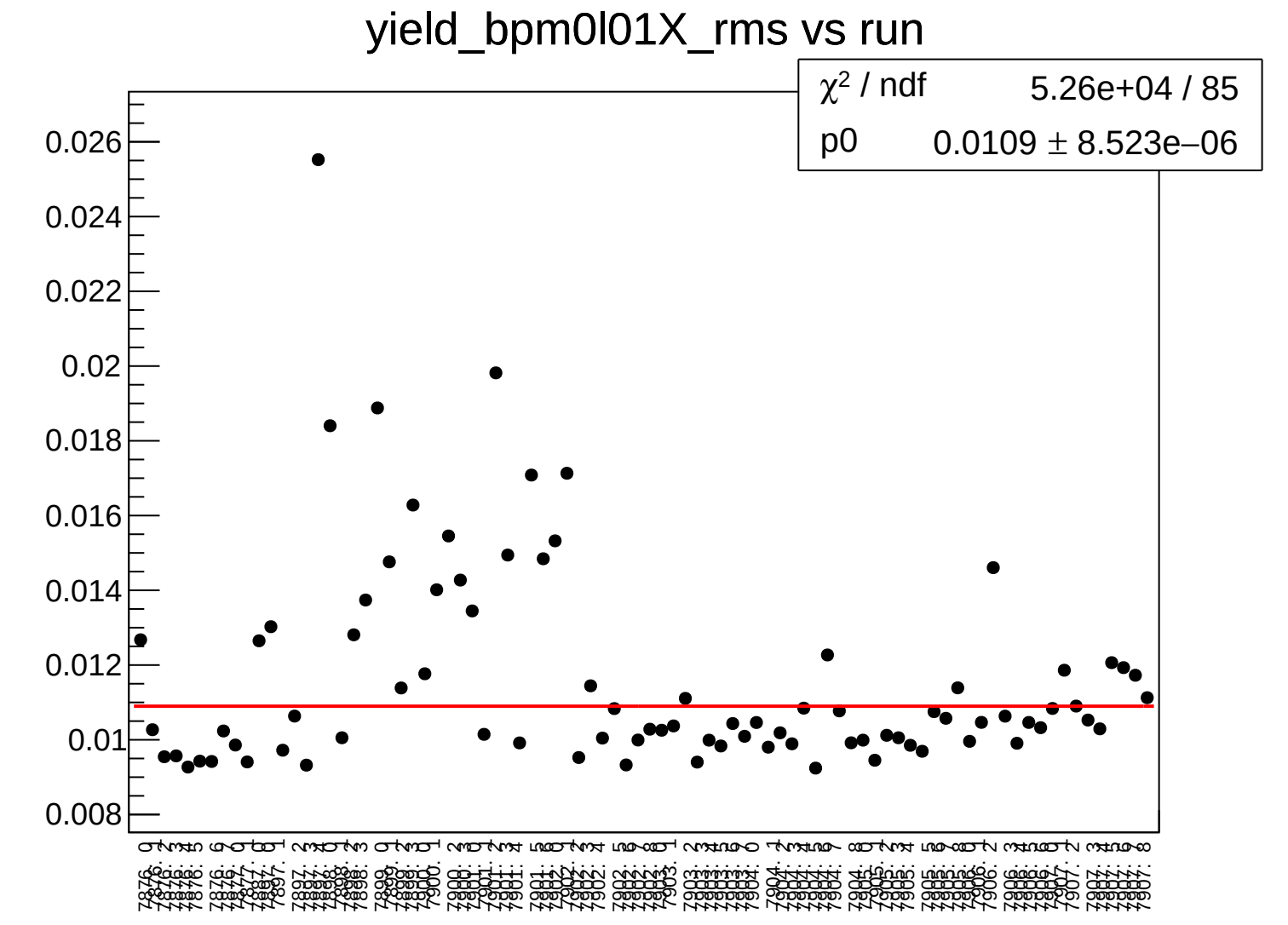

yield_bpm0i01aX_rms vs run
χ² / ndf 5.35e+04 / 85
p0 0.005793 ± 4.531e−06
0.014
0.012
0.01
0.008
0.006
0.004

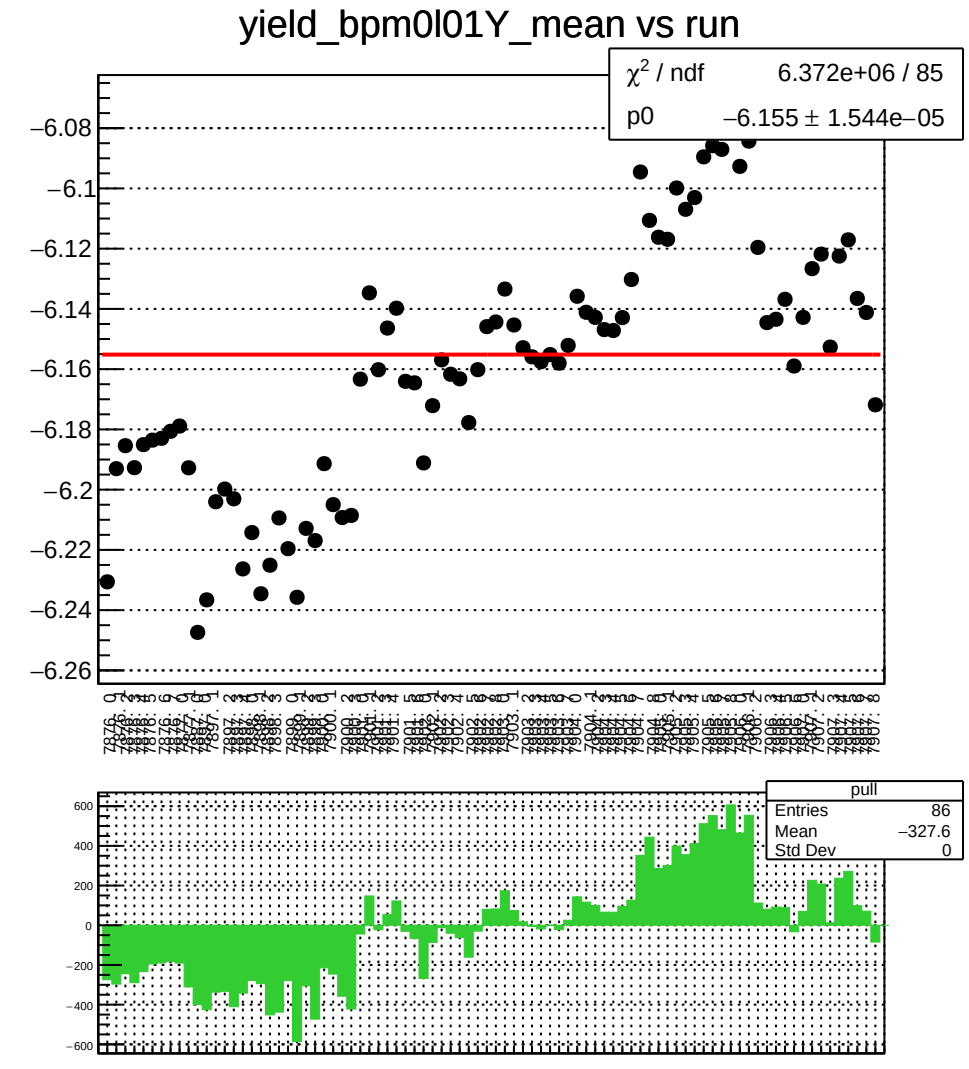

yield_bpm0i01aY_mean vs run
χ² / ndf 1.699e+06 / 85
p0 1.462 ± 5.949e−06
pull
Entries 86
Mean 529
Std Dev 0
pull1D
Entries 86
Mean 4.816
Std Dev 0

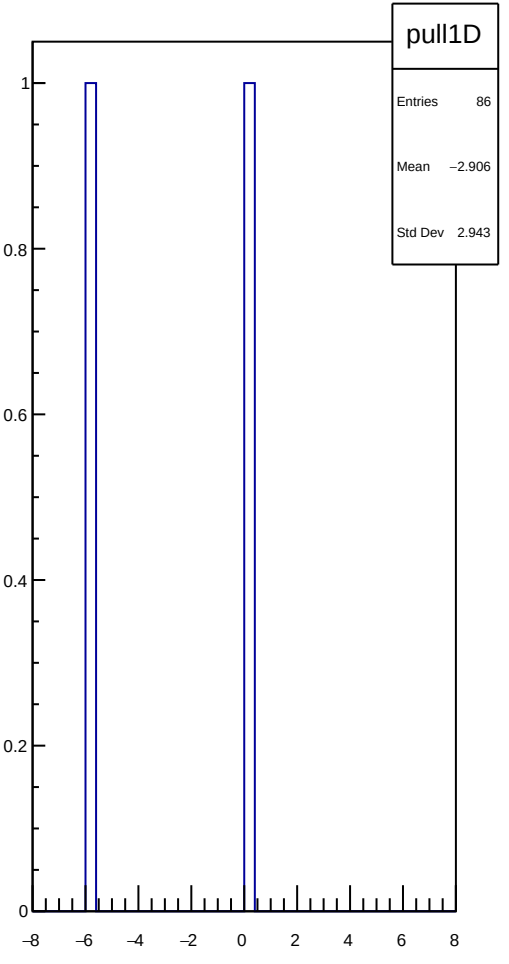

yield_bpm0i01aY_rms vs run
χ² / ndf 2.276e+04 / 85
p0 0.005428 ± 4.207e−06
0.009
0.008
0.007
0.006
0.005

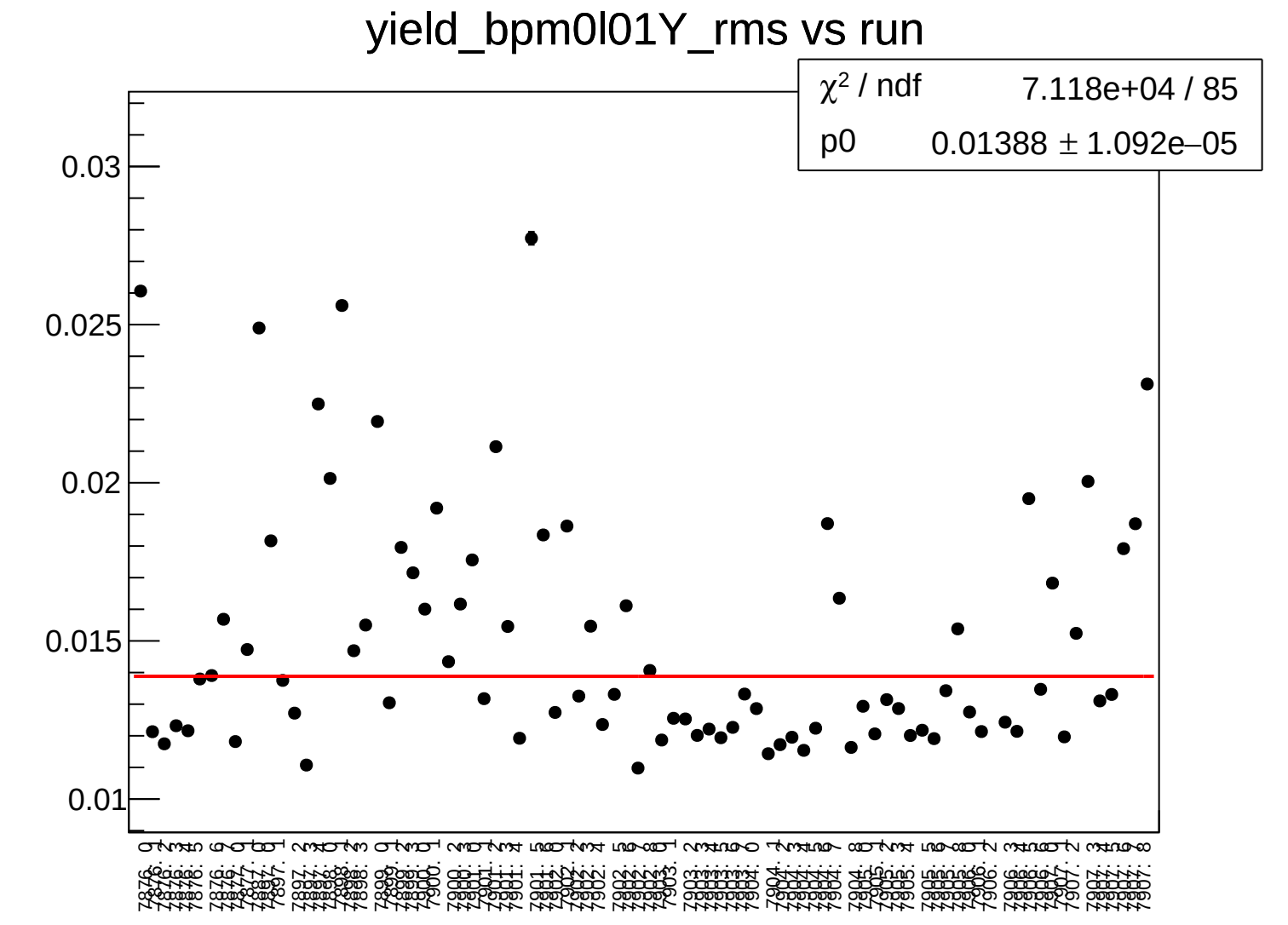

yield_bpm0l01X_mean vs run
χ² / ndf 7.76e+08 / 85
p0 0.5675 ± 1.205e−05
pull
Entries 86
Mean 427.5
Std Dev 0

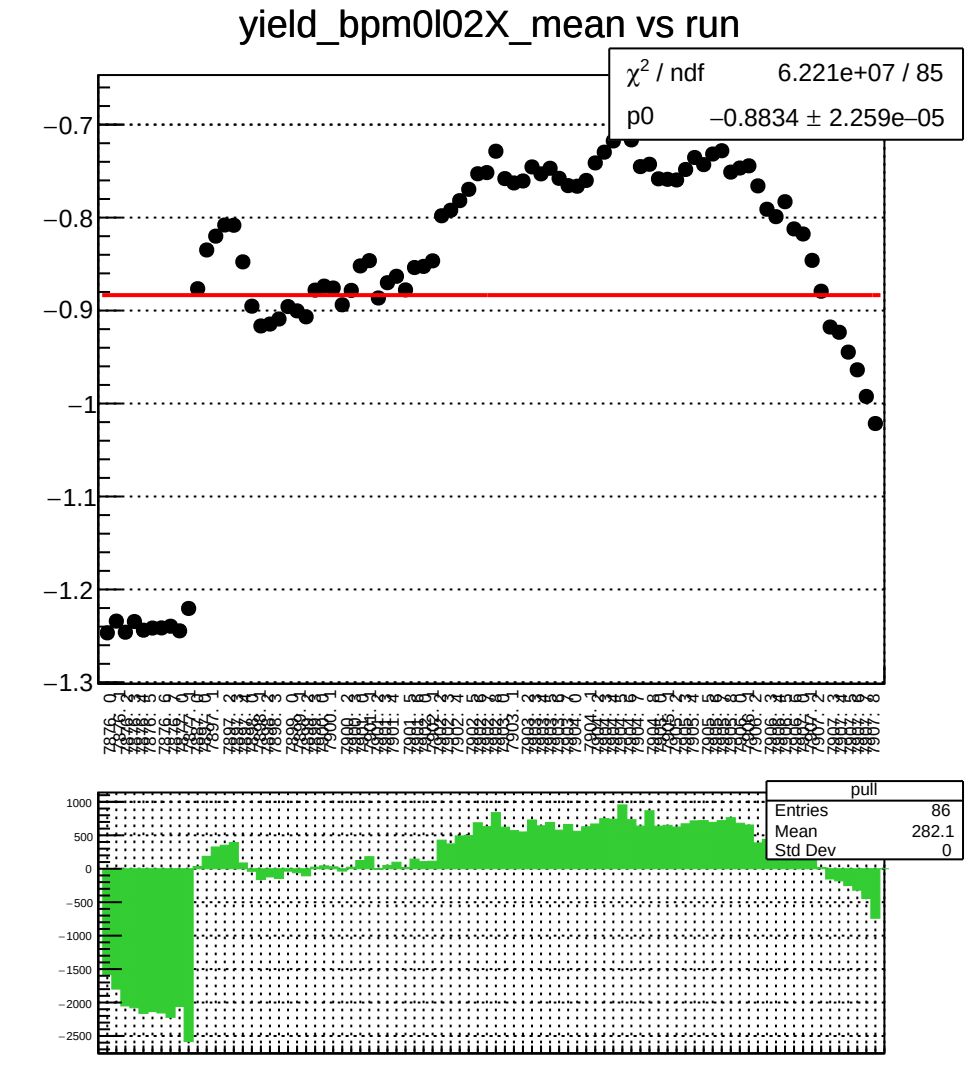

pull1D
Entries 86
Mean 0
Std Dev 0

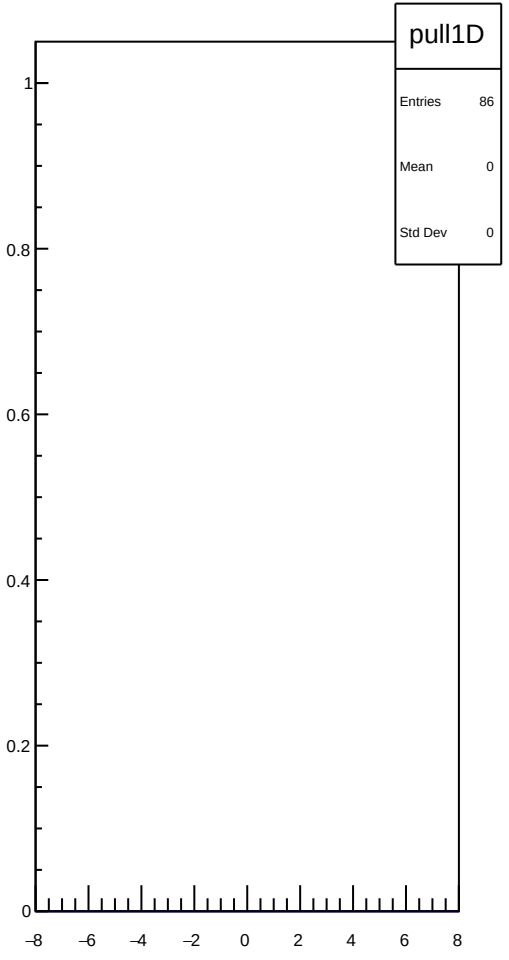

yield_bpm0l01X_rms vs run
χ² / ndf 5.26e+04 / 85
p0 0.0109 ± 8.523e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

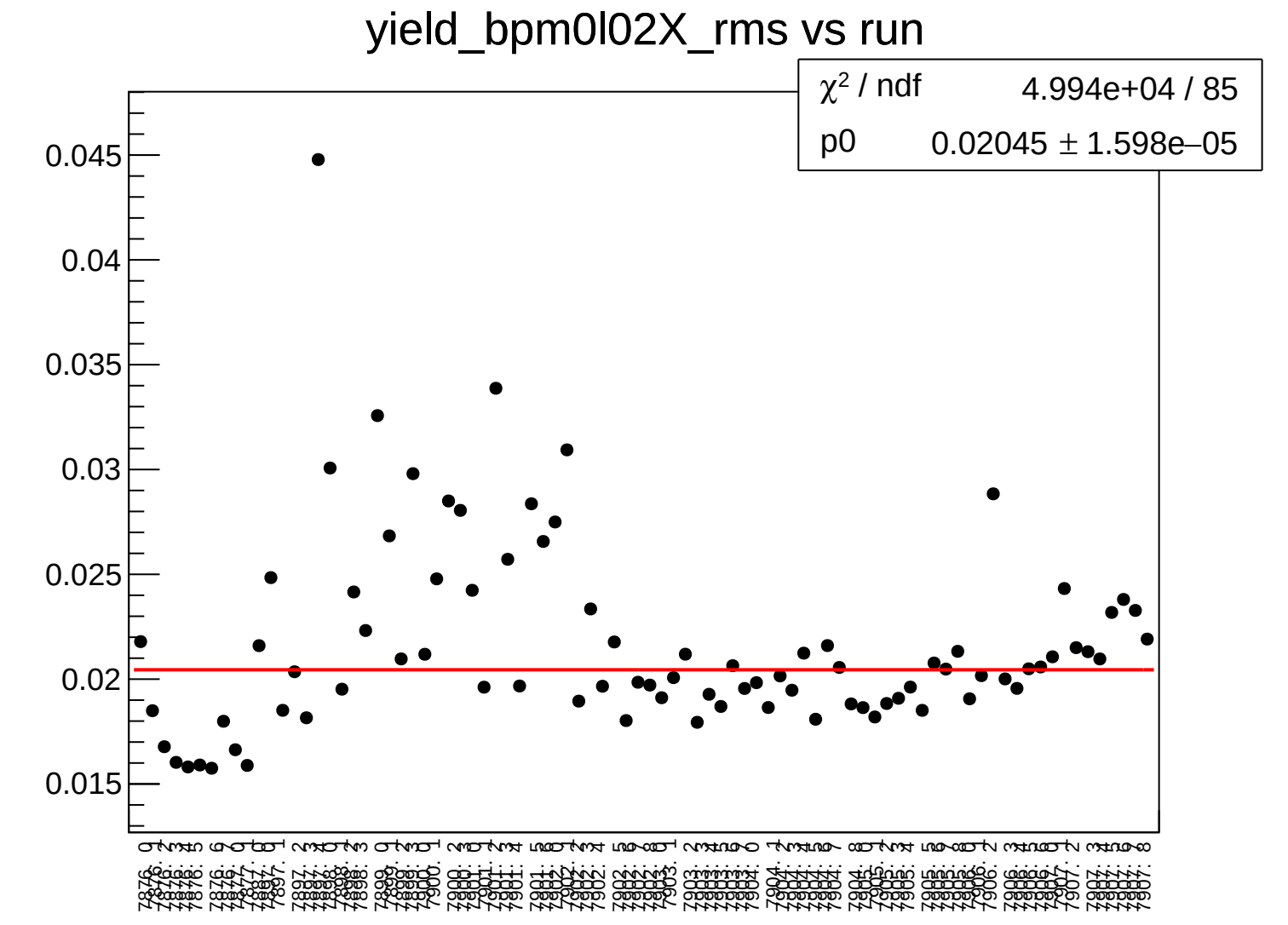

yield_bpm0l01Y_mean vs run
χ² / ndf 6.372e+06 / 85
p0 −6.155 ± 1.544e−05
−6.08
−6.1
−6.12
−6.14
−6.16
−6.18
−6.2
−6.22
−6.24
−6.26
pull
Entries 86
Mean −327.6
Std Dev 0
600
400
200
0
−200
−400
−600

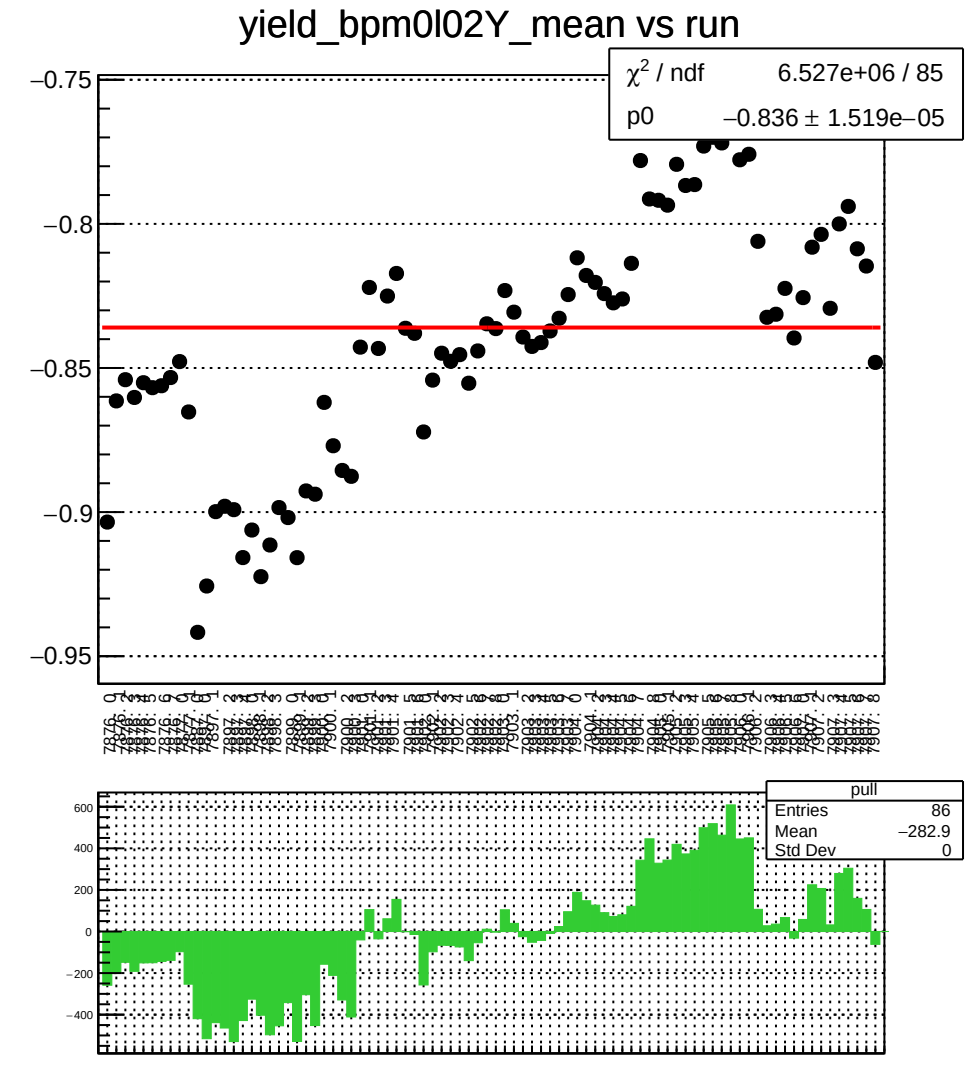

pull1D
Entries 86
Mean −2.906
Std Dev 2.943
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

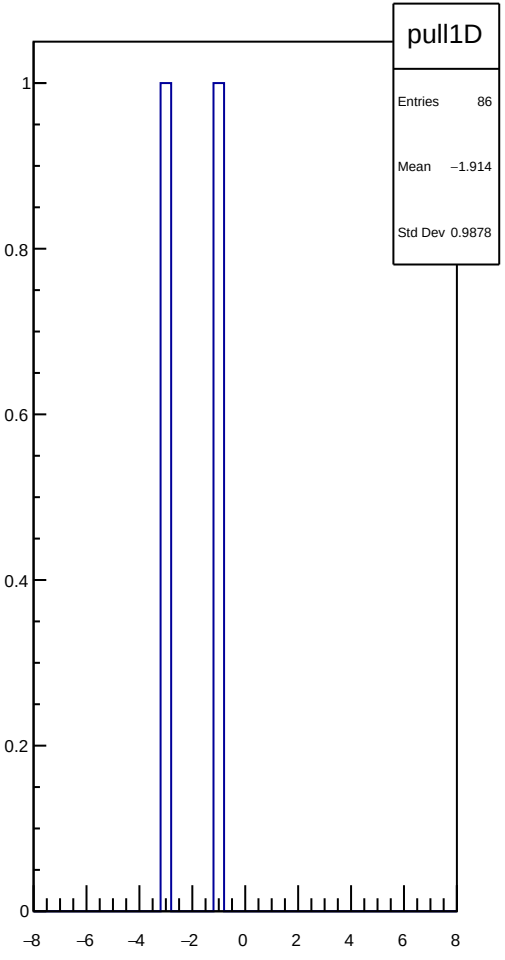

yield_bpm0l01Y_rms vs run
χ² / ndf 7.118e+04 / 85
p0 0.01388 ± 1.092e–05
0.03
0.025
0.02
0.015
0.01

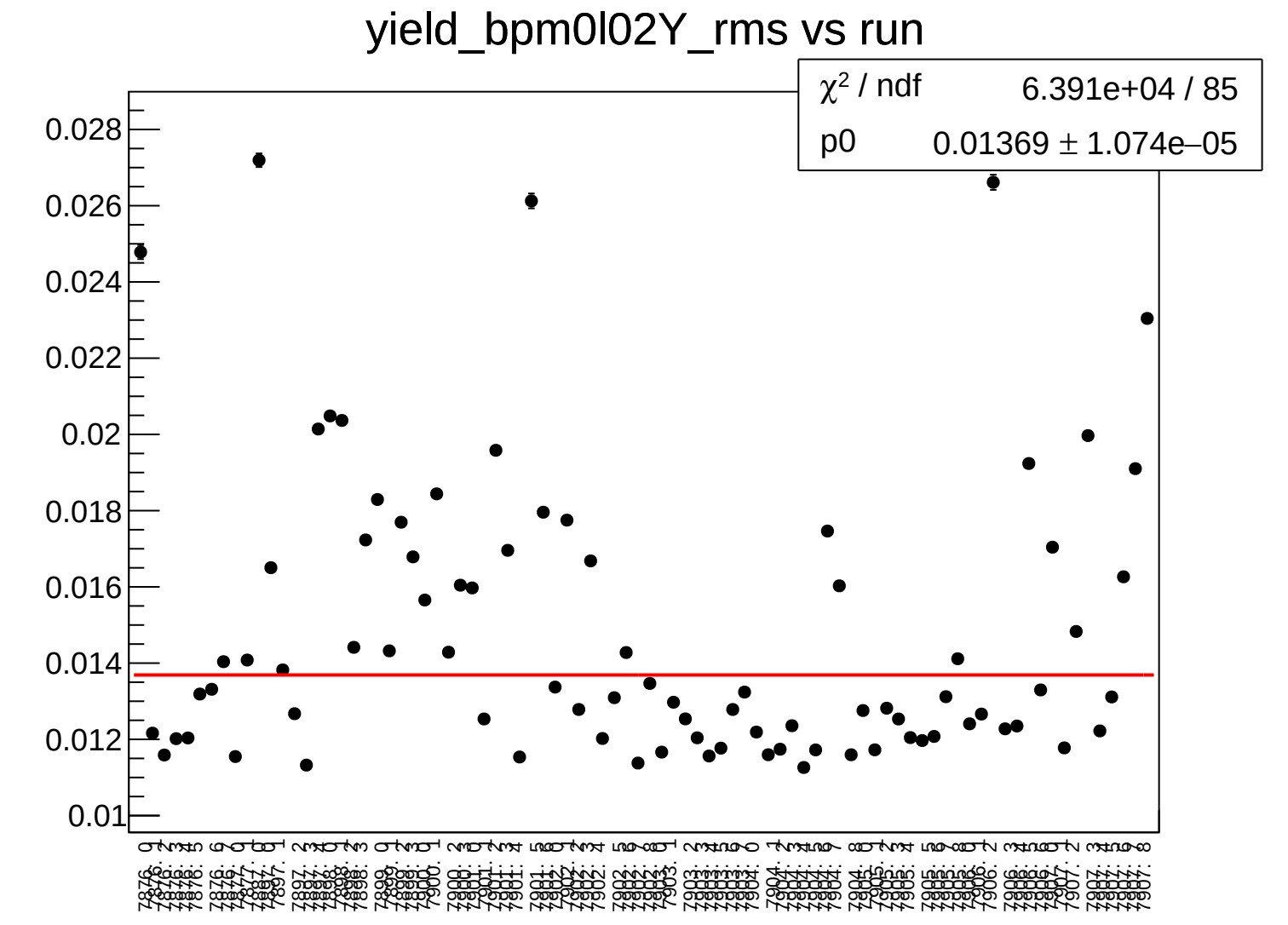

yield_bpm0l02X_mean vs run
χ² / ndf 6.221e+07 / 85
p0 −0.8834 ± 2.259e−05
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
pull
Entries 86
Mean 282.1
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

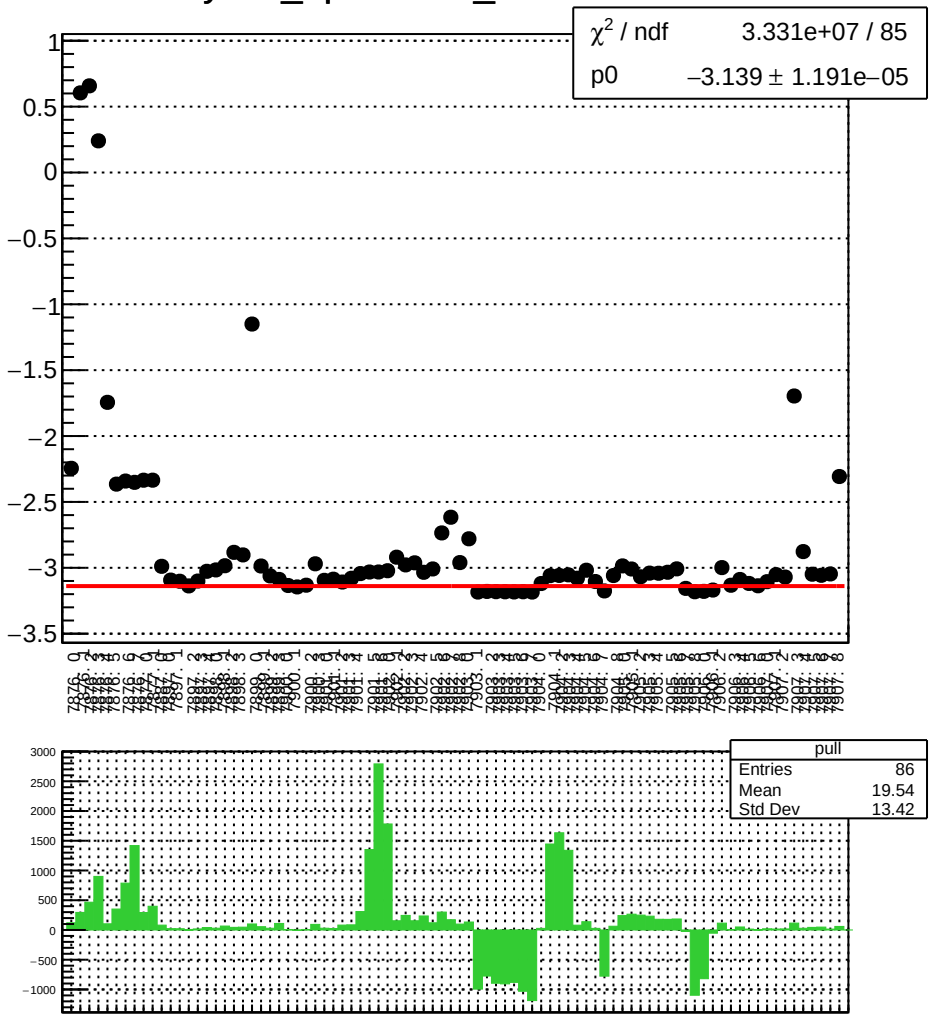

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

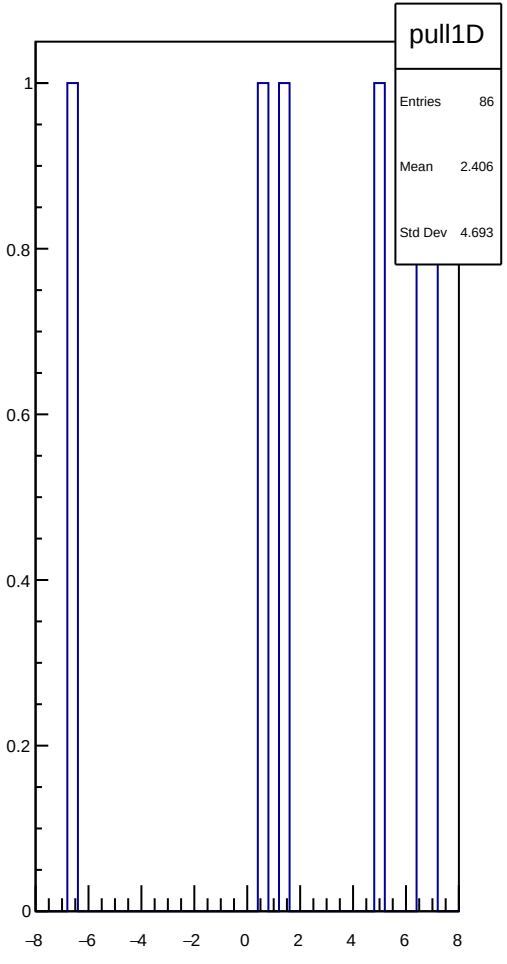

yield_bpm0l02X_rms vs run
χ² / ndf 4.994e+04 / 85
p0 0.02045 ± 1.598e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

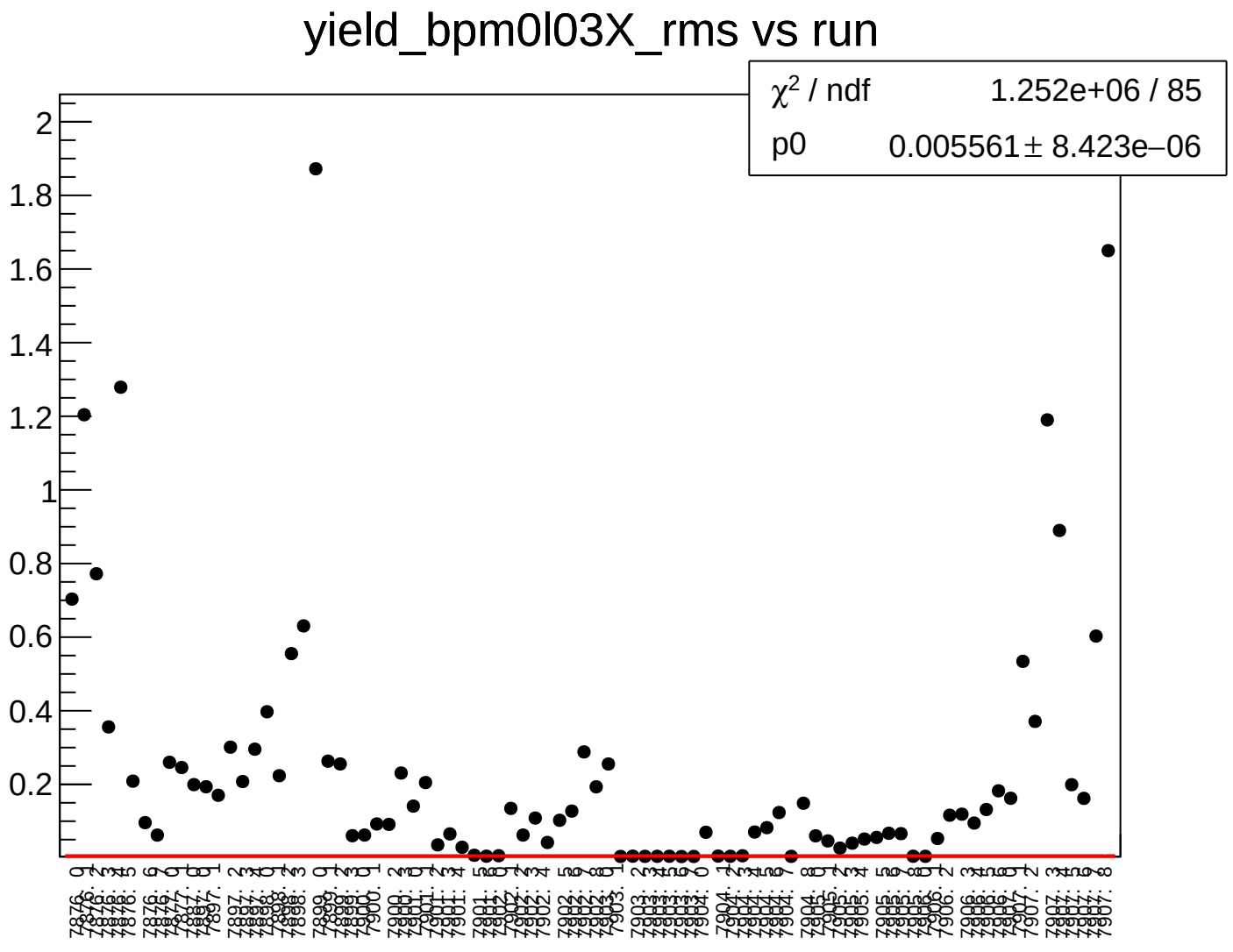

yield_bpm0l02Y_mean vs run
χ² / ndf 6.527e+06 / 85
p0 −0.836 ± 1.519e−05
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 86
Mean −282.9
Std Dev 0
600
400
200
0
−200
−400

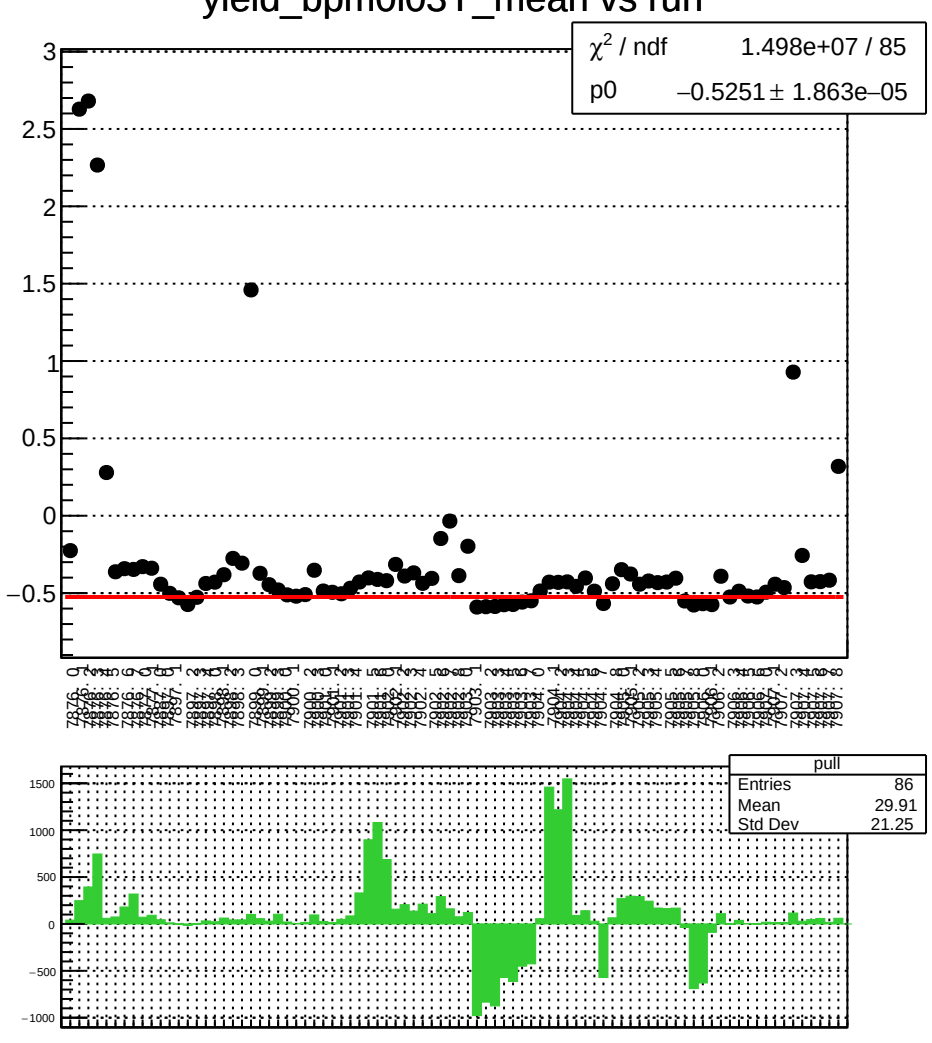

pull1D
Entries 86
Mean −1.914
Std Dev 0.9878
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

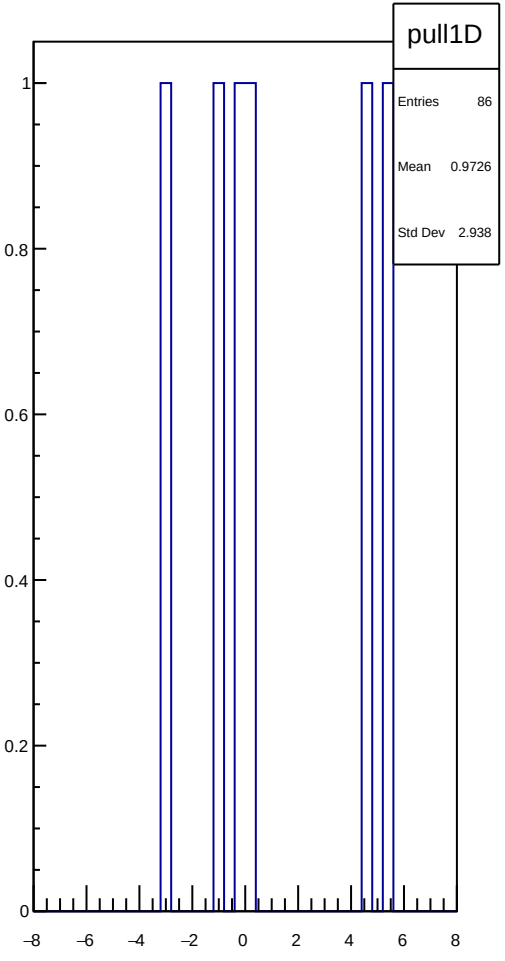

yield_bpm0l02Y_rms vs run
χ² / ndf 6.391e+04 / 85
p0 0.01369 ± 1.074e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

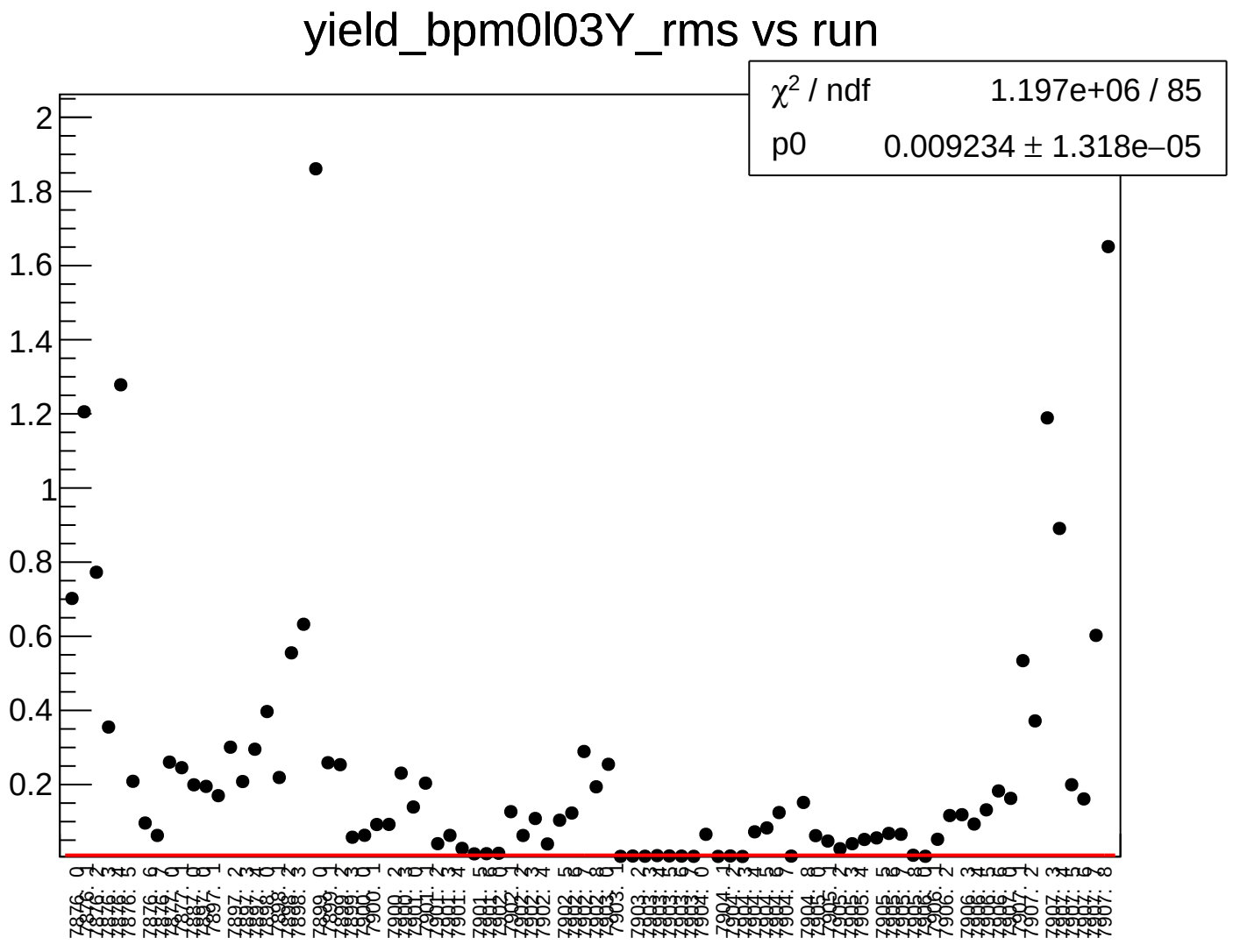

yield_bpm0l03X_mean vs run
χ² / ndf 3.331e+07 / 85
p0 −3.139 ± 1.191e−05
pull
Entries 86
Mean 19.54
Std Dev 13.42

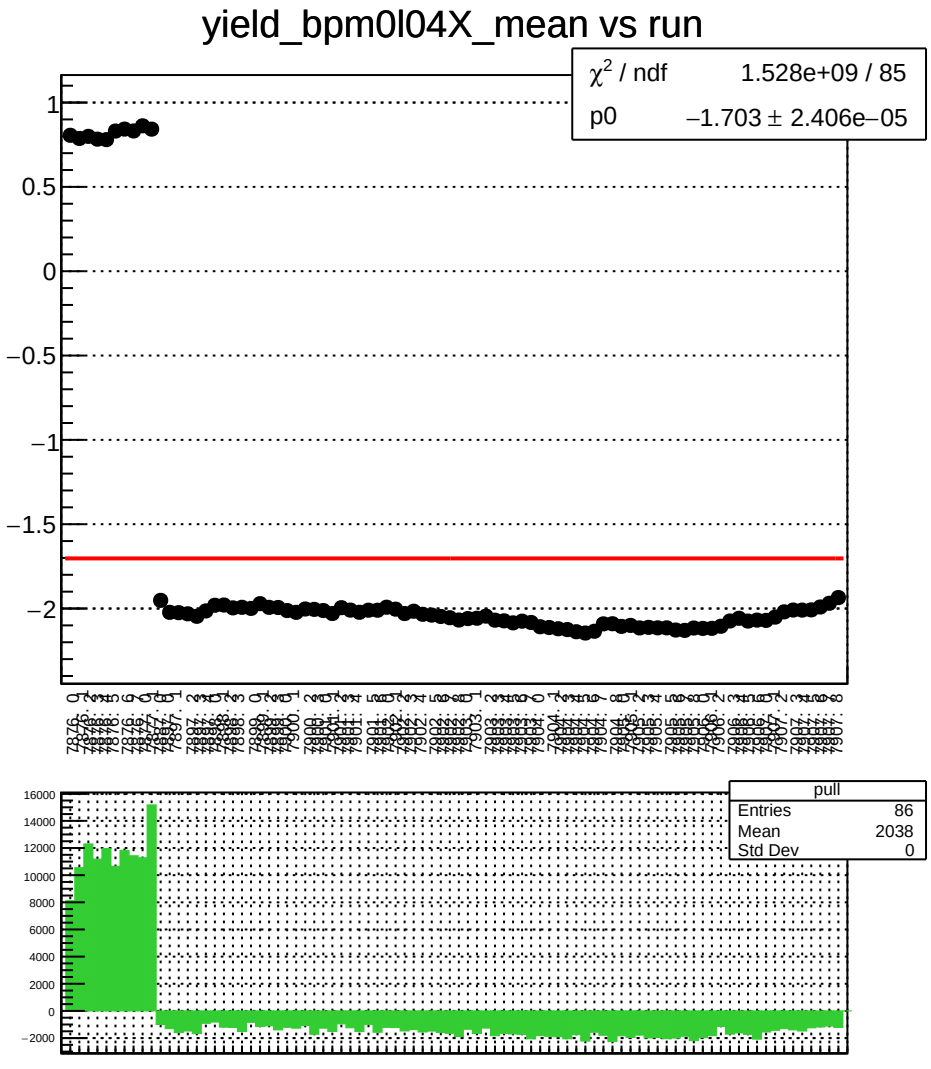

pull1D
Entries 86
Mean 2.406
Std Dev 4.693

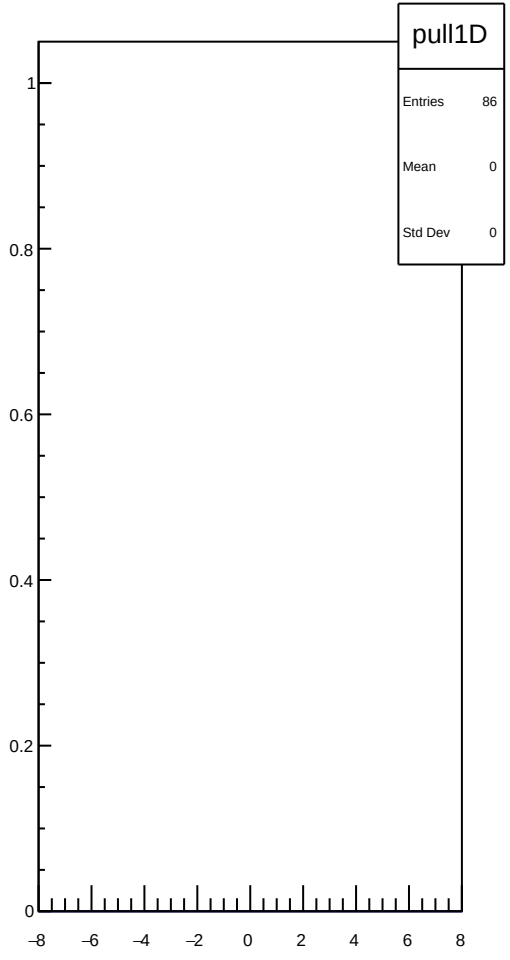

yield_bpm0l03X_rms vs run
χ² / ndf 1.252e+06 / 85
p0 0.005561 ± 8.423e−06
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

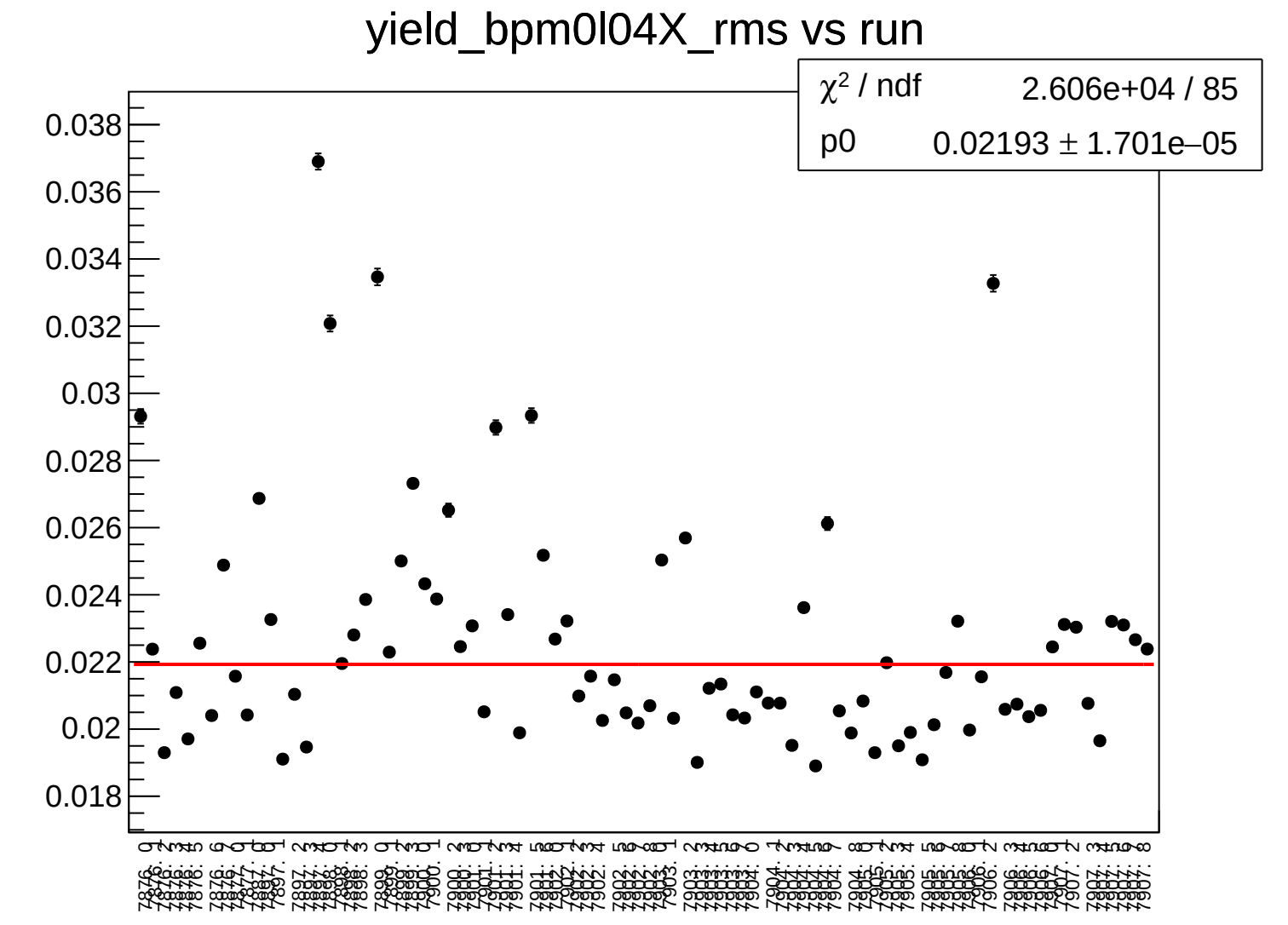

yield_bpm0l03Y_mean vs run
χ² / ndf 1.498e+07 / 85
p0 −0.5251 ± 1.863e−05
pull
Entries 86
Mean 29.91
Std Dev 21.25

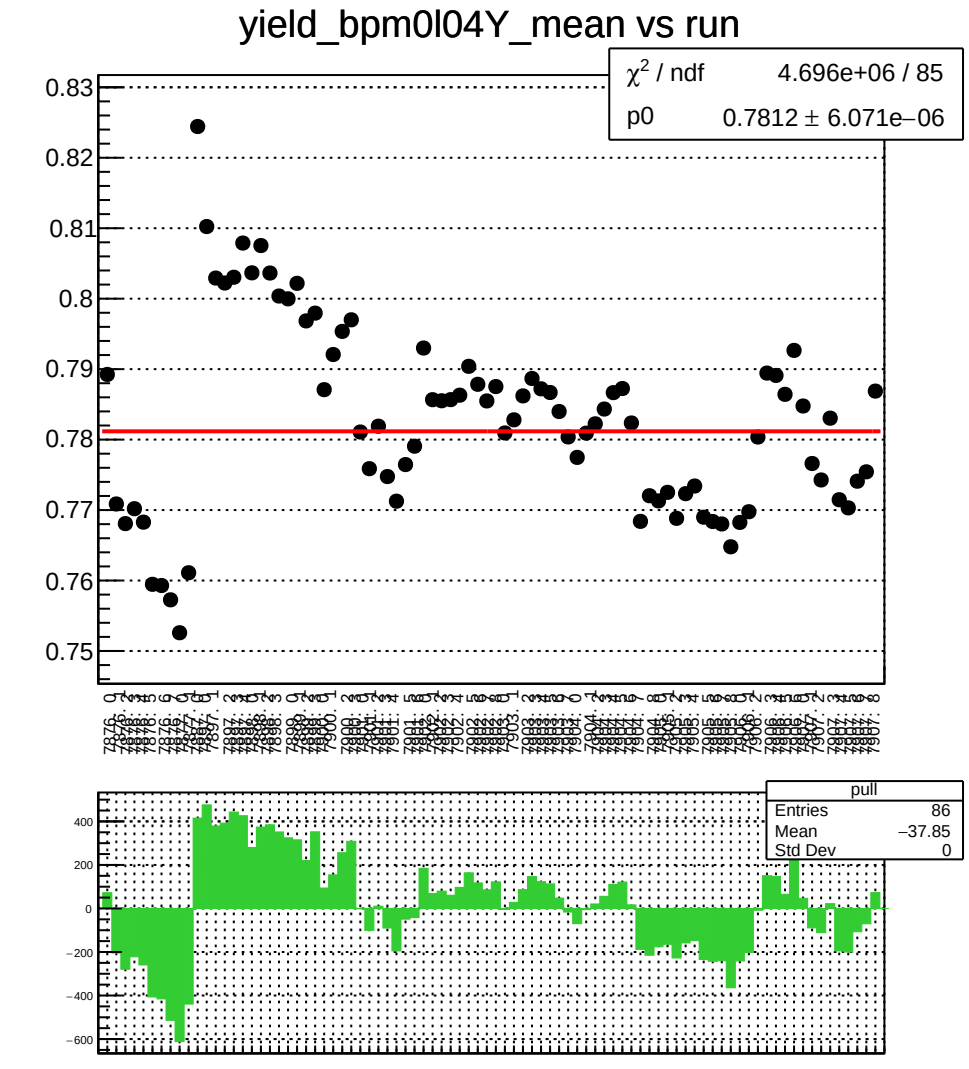

pull1D
Entries 86
Mean 0.9726
Std Dev 2.938

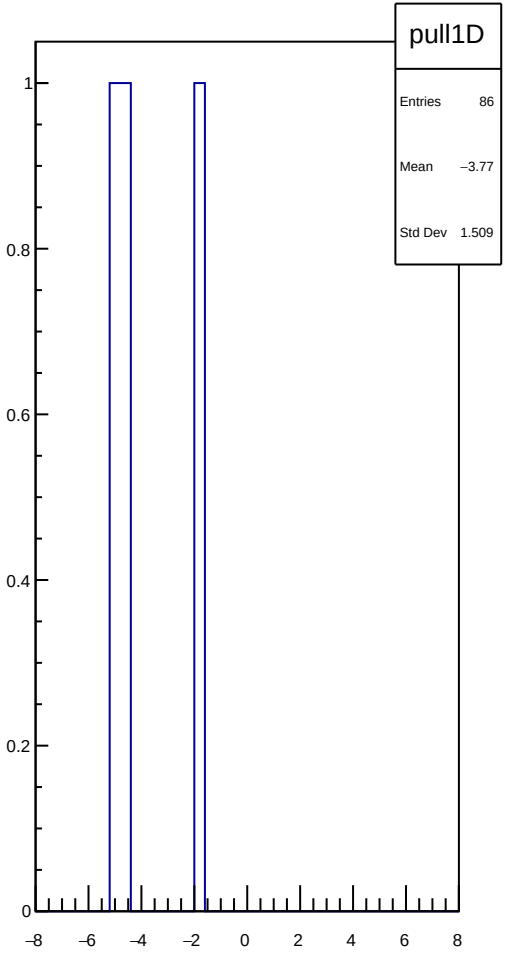

yield_bpm0l03Y_rms vs run
χ^2 / ndf 1.197e+06 / 85
p0 0.009234 ± 1.318e−05
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

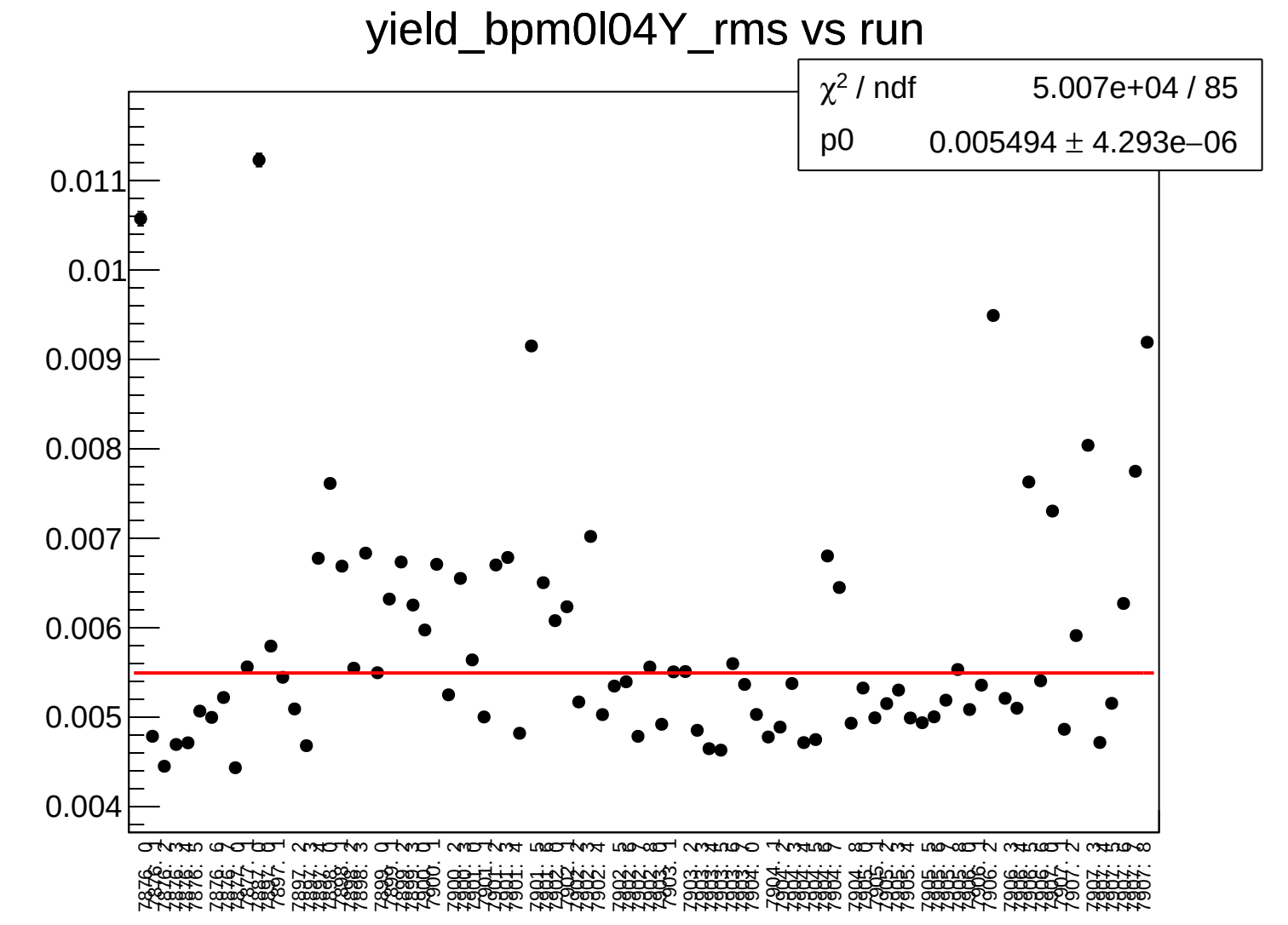

yield_bpm0l04X_mean vs run
χ² / ndf 1.528e+09 / 85
p0 −1.703 ± 2.406e−05
pull
Entries 86
Mean 2038
Std Dev 0

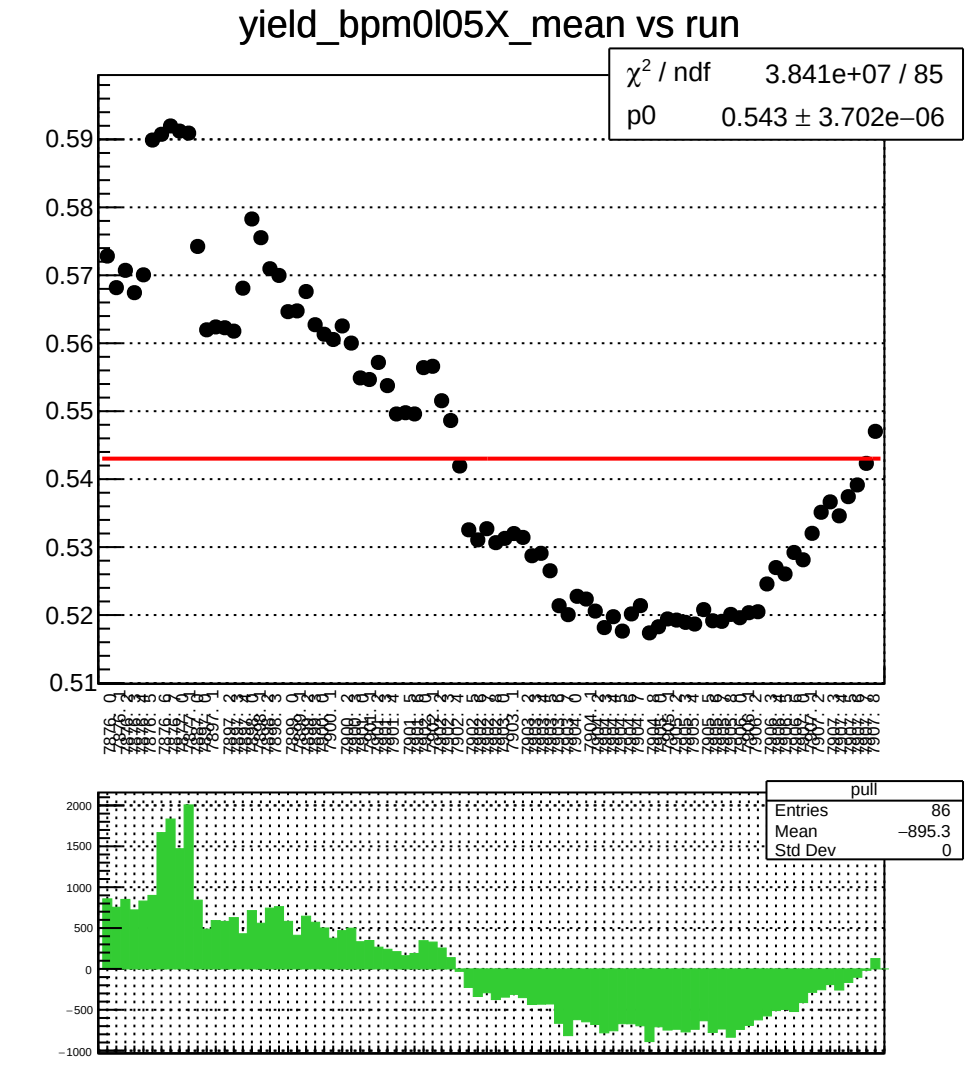

pull1D
Entries 86
Mean 0
Std Dev 0

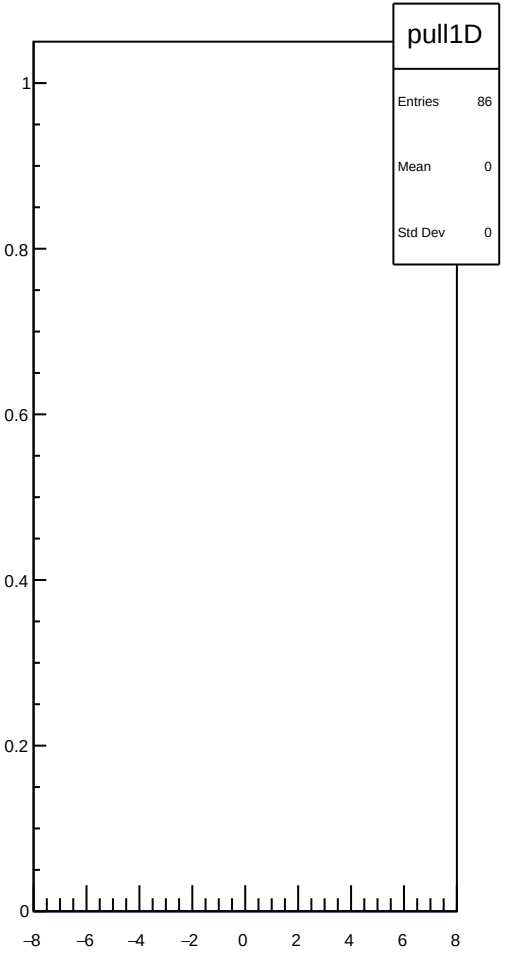

yield_bpm0l04X_rms vs run
χ² / ndf 2.606e+04 / 85
p0 0.02193 ± 1.701e–05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

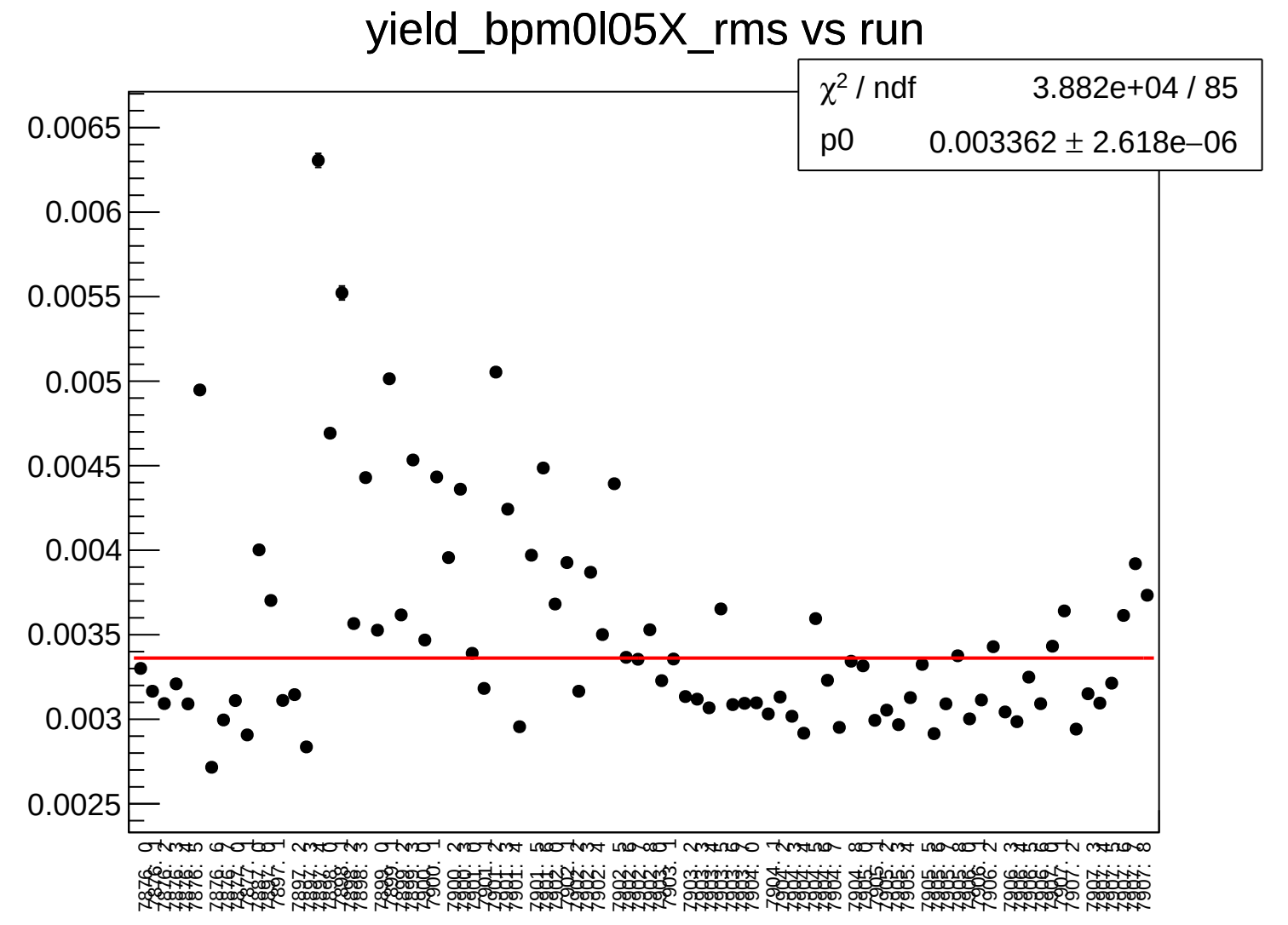

yield_bpm0l04Y_mean vs run
χ² / ndf 4.696e+06 / 85
p0 0.7812 ± 6.071e−06
0.83
0.82
0.81
0.8
0.79
0.78
0.77
0.76
0.75
pull
Entries 86
Mean −37.85
Std Dev 0
400
200
0
−200
−400
−600

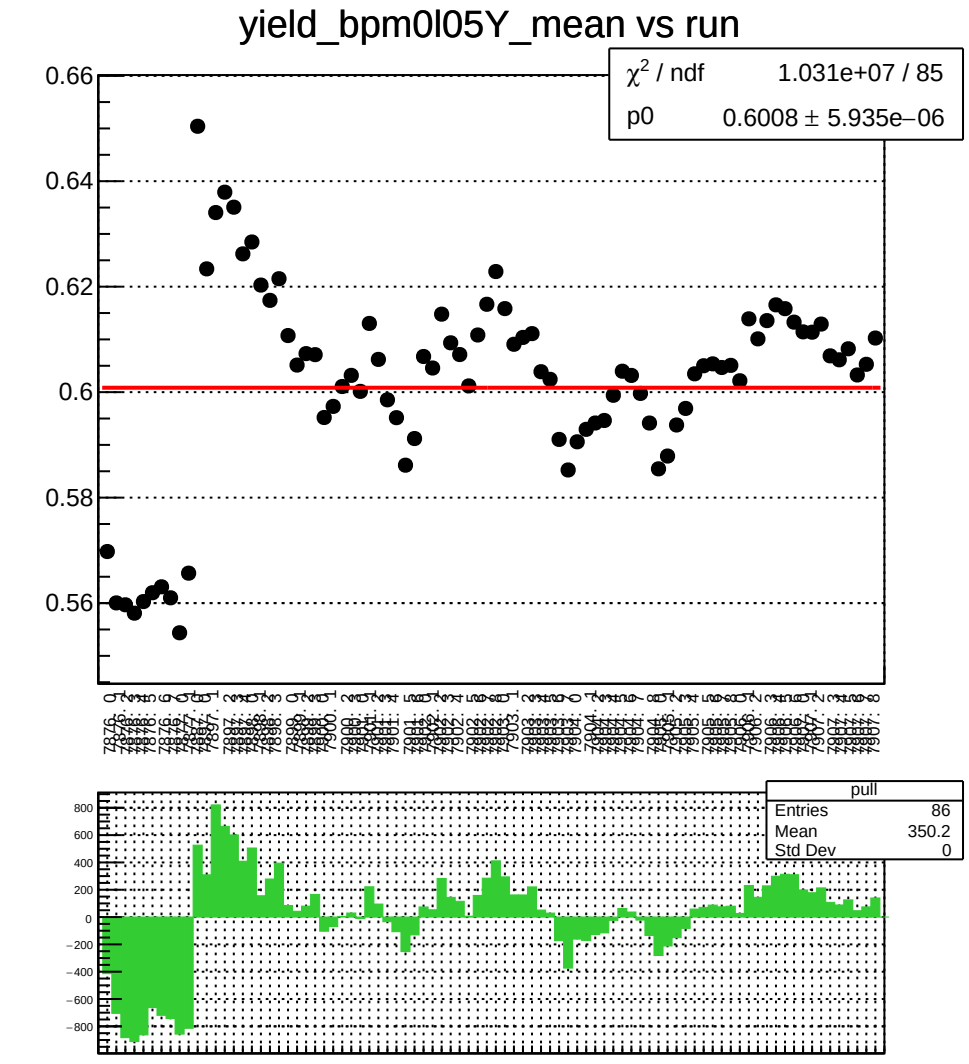

pull1D
Entries 86
Mean −3.77
Std Dev 1.509
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

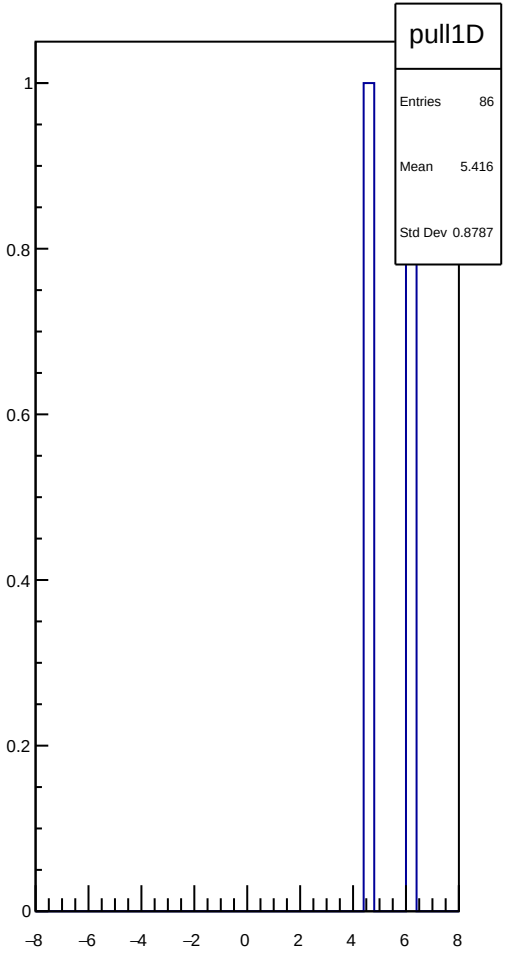

yield_bpm0l04Y_rms vs run
χ² / ndf 5.007e+04 / 85
p0 0.005494 ± 4.293e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

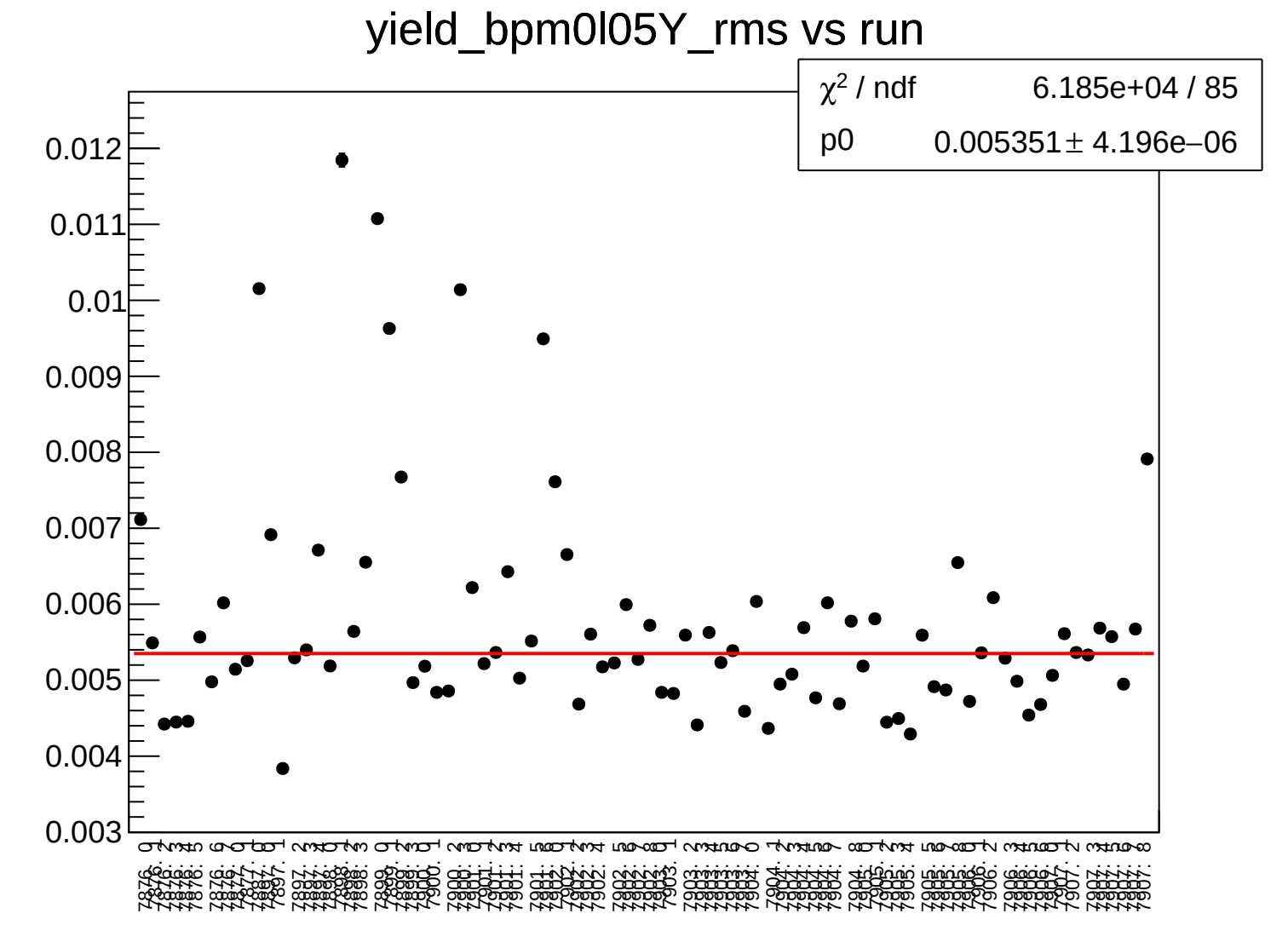

yield_bpm0l05X_mean vs run
χ² / ndf 3.841e+07 / 85
p0 0.543 ± 3.702e−06
pull
Entries 86
Mean −895.3
Std Dev 0

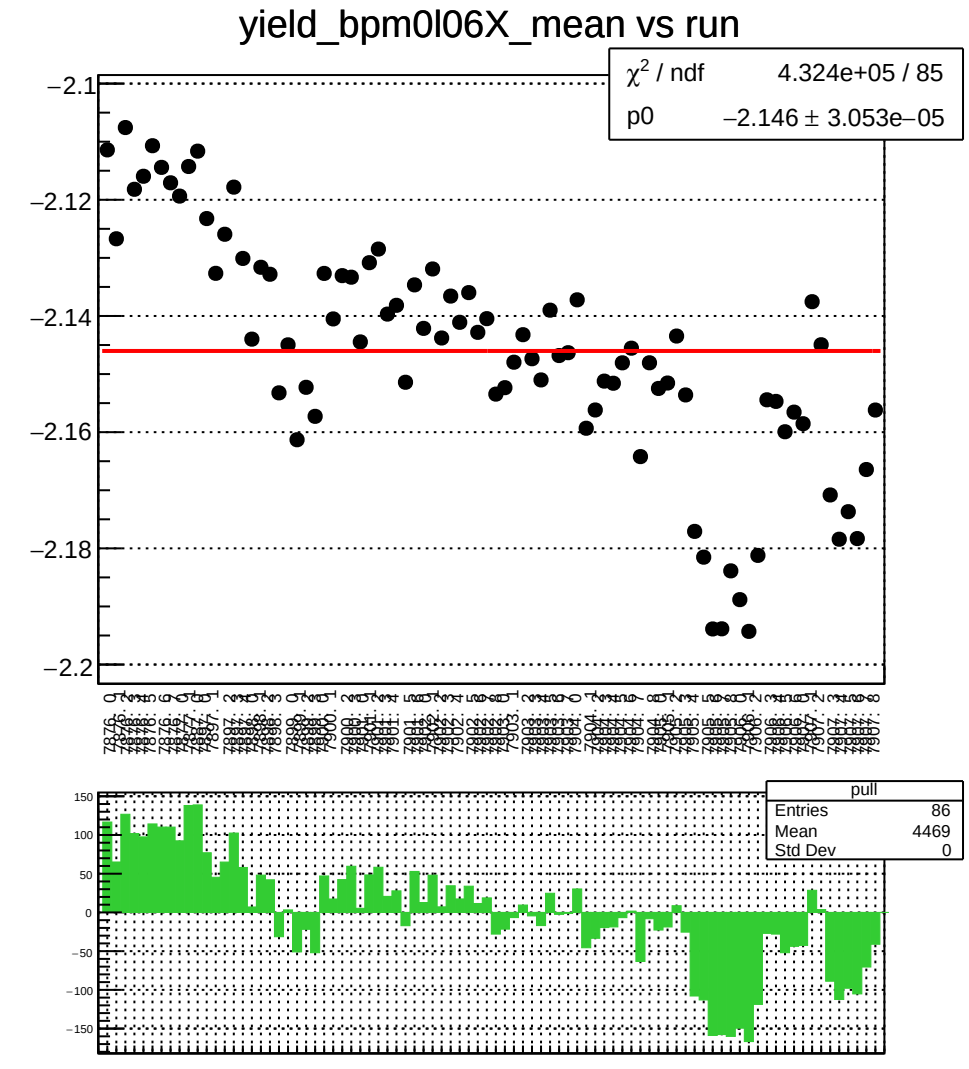

pull1D
Entries 86
Mean 0
Std Dev 0

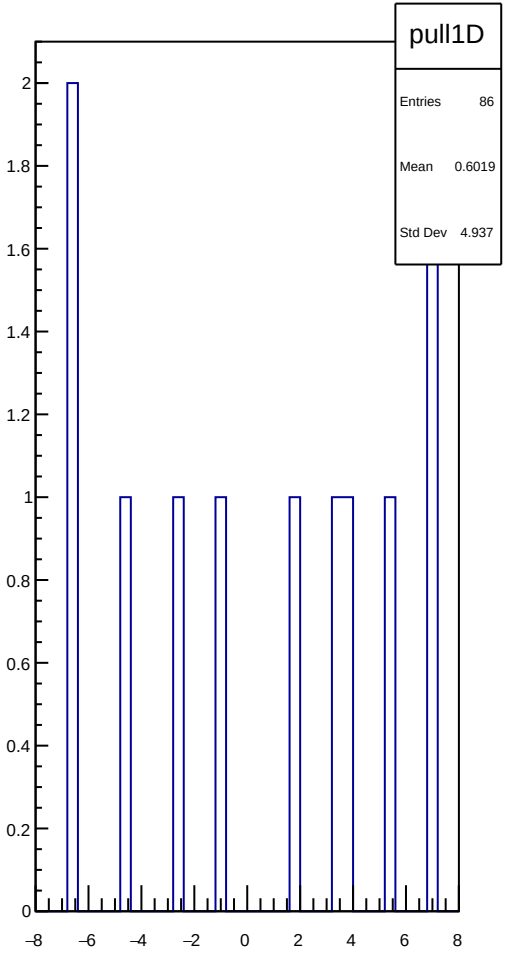

yield_bpm0l05X_rms vs run
χ² / ndf 3.882e+04 / 85
p0 0.003362 ± 2.618e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

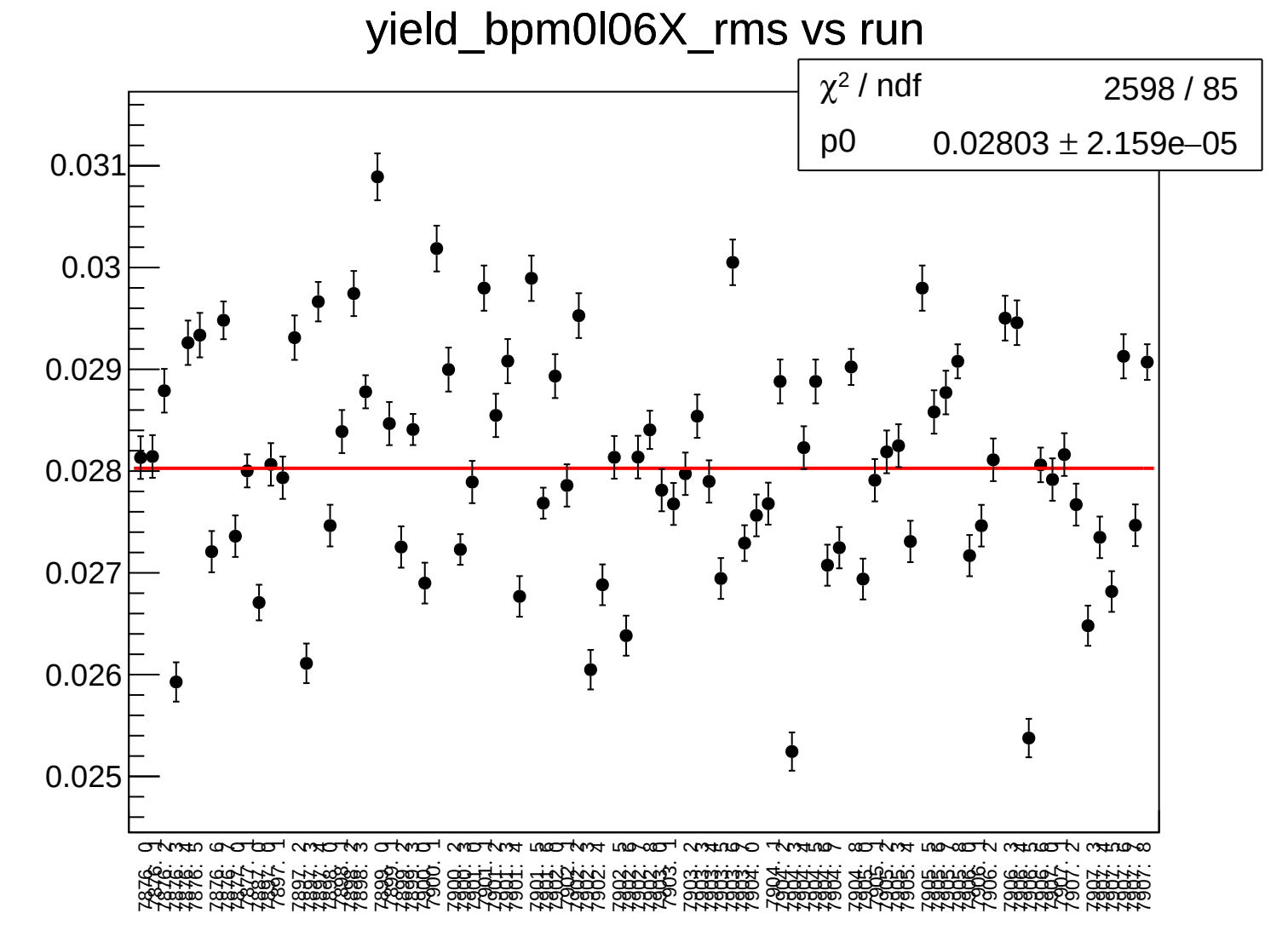

yield_bpm0l05Y_mean vs run
χ² / ndf 1.031e+07 / 85
p0 0.6008 ± 5.935e−06
0.66
0.64
0.62
0.6
0.58
0.56
pull
Entries 86
Mean 350.2
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

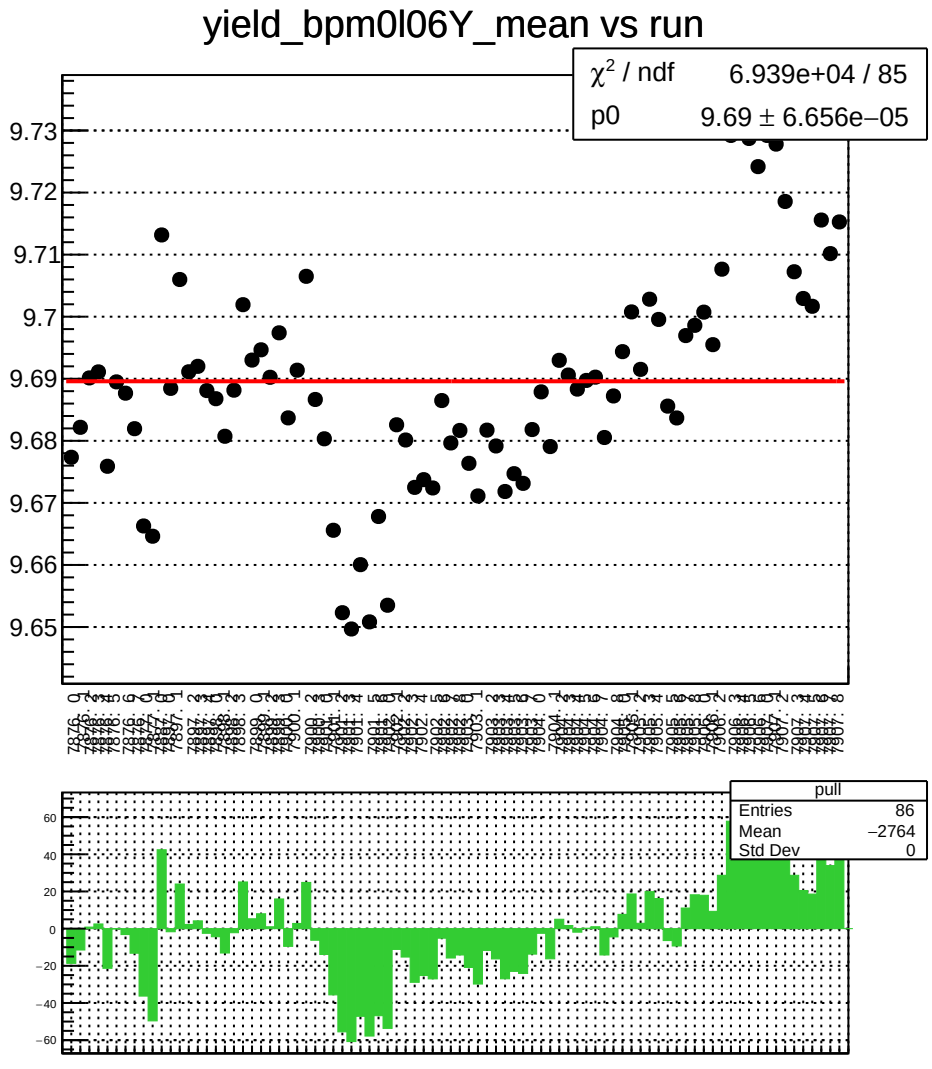

pull1D
Entries 86
Mean 5.416
Std Dev 0.8787
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

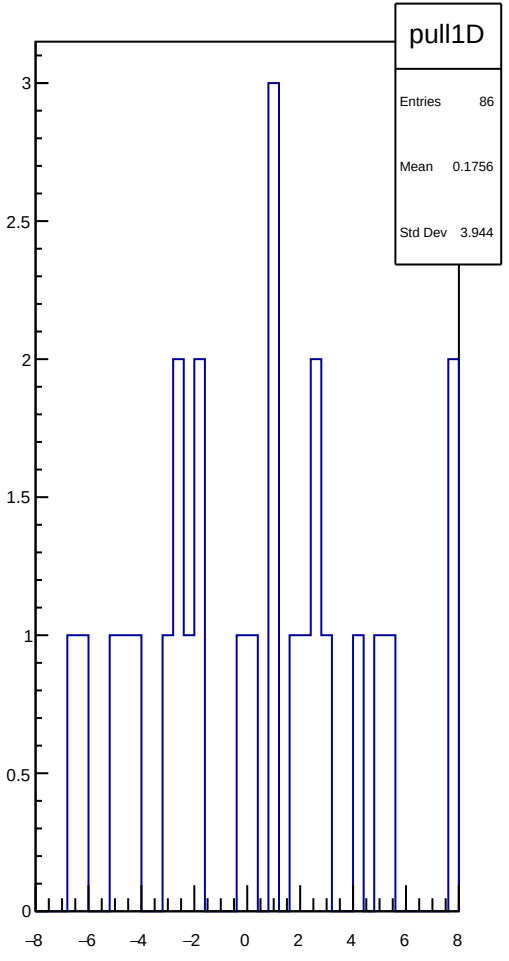

yield_bpm0l05Y_rms vs run
χ² / ndf 6.185e+04 / 85
p0 0.005351 ± 4.196e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

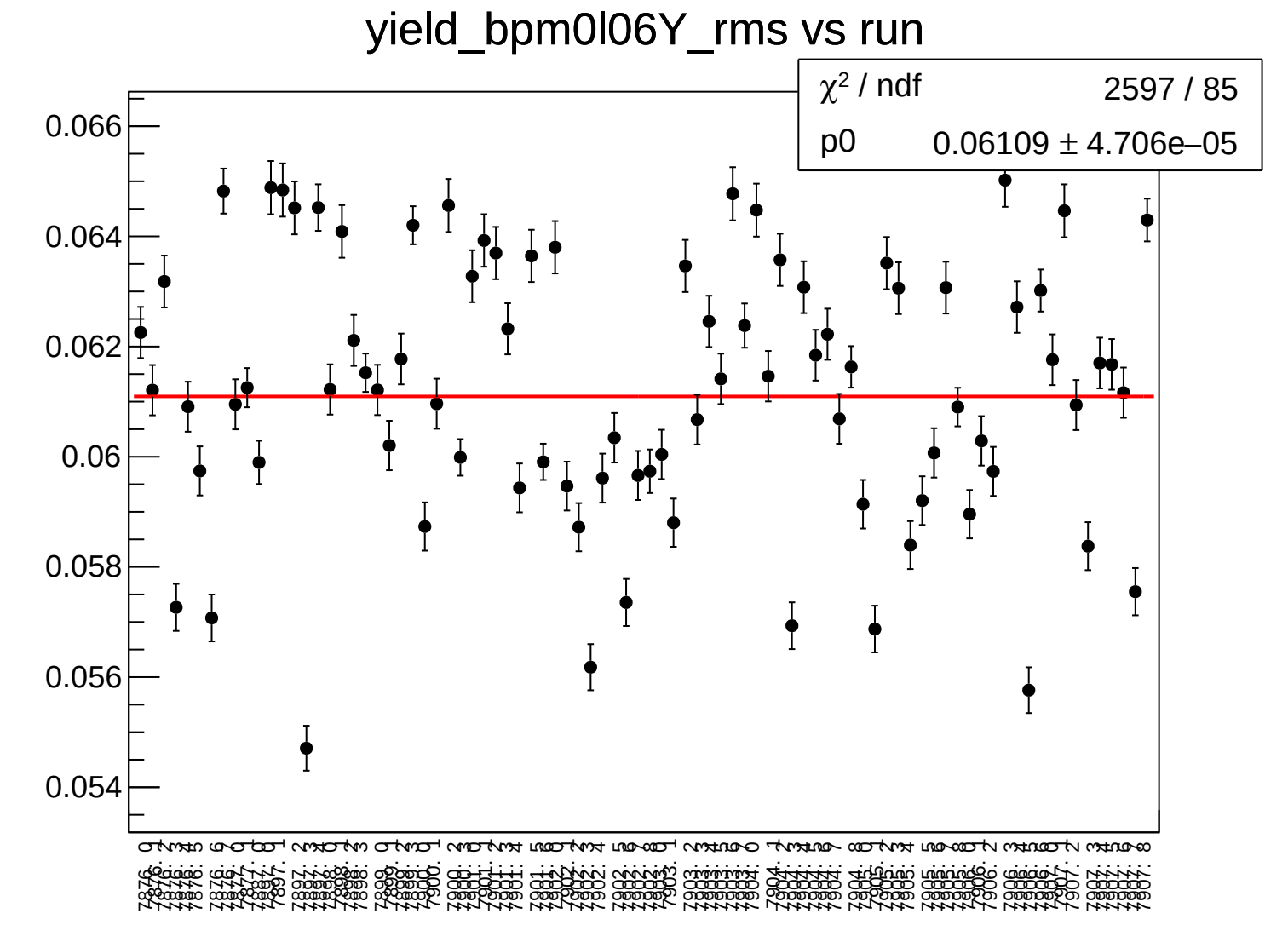

yield_bpm0l06X_mean vs run
χ² / ndf 4.324e+05 / 85
p0 −2.146 ± 3.053e−05
−2.1
−2.12
−2.14
−2.16
−2.18
−2.2
pull
Entries 86
Mean 4469
Std Dev 0
150
100
50
0
−50
−100
−150

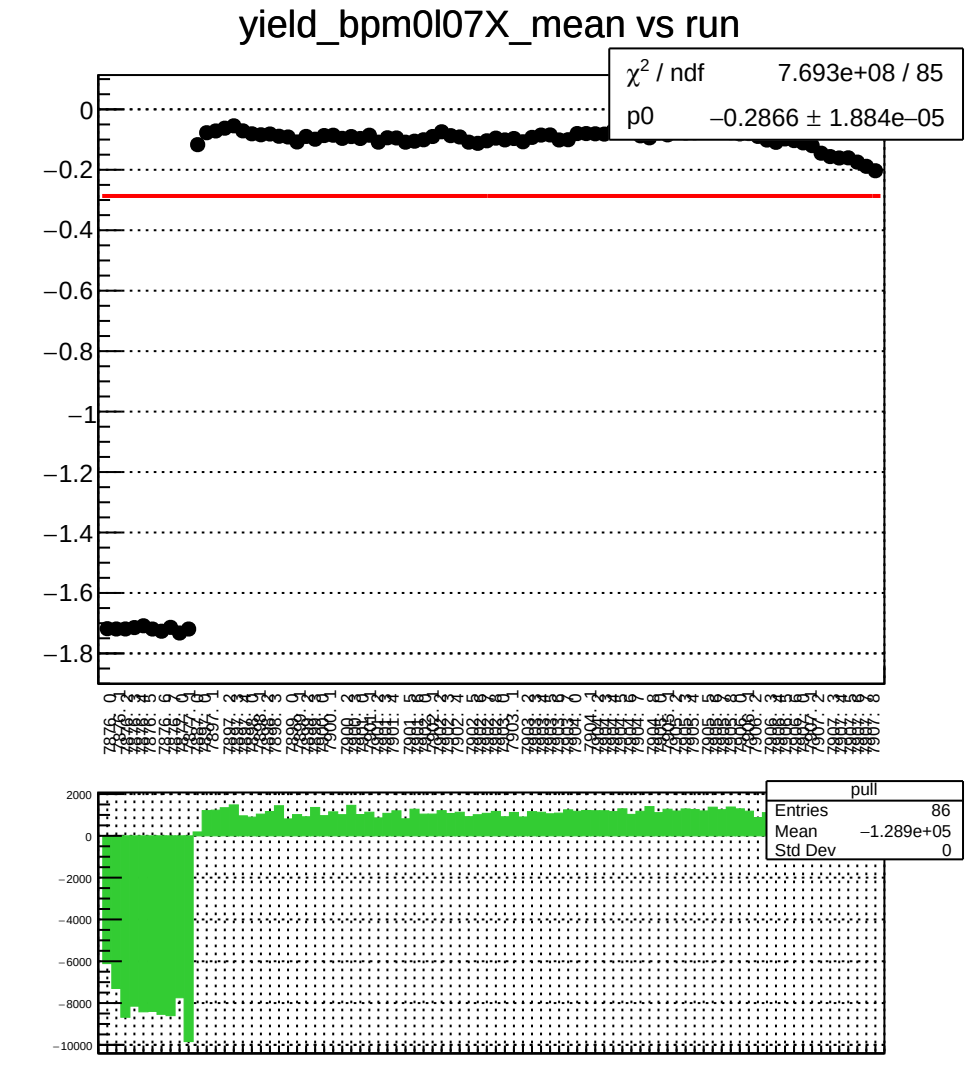

pull1D
Entries 86
Mean 0.6019
Std Dev 4.937
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

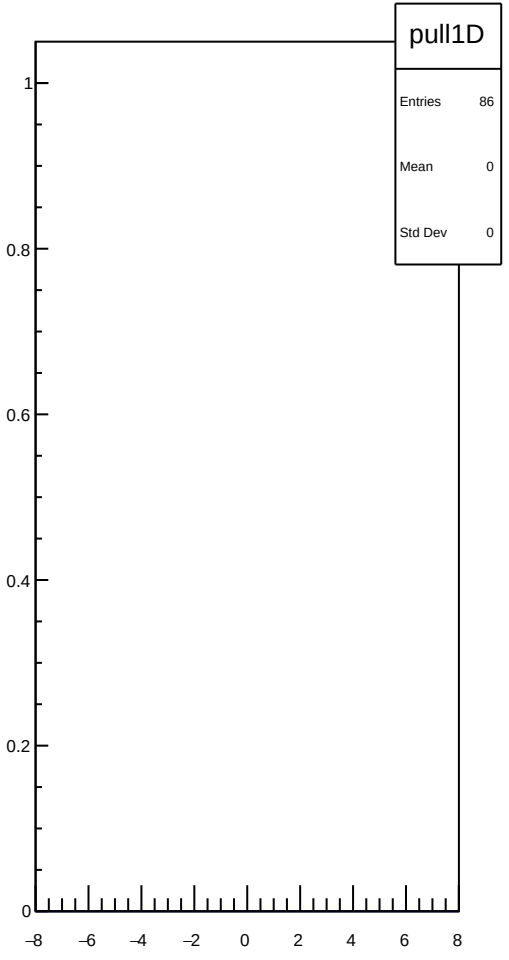

yield_bpm0l06X_rms vs run
χ² / ndf 2598 / 85
p0 0.02803 ± 2.159e−05
0.031
0.03
0.029
0.028
0.027
0.026
0.025

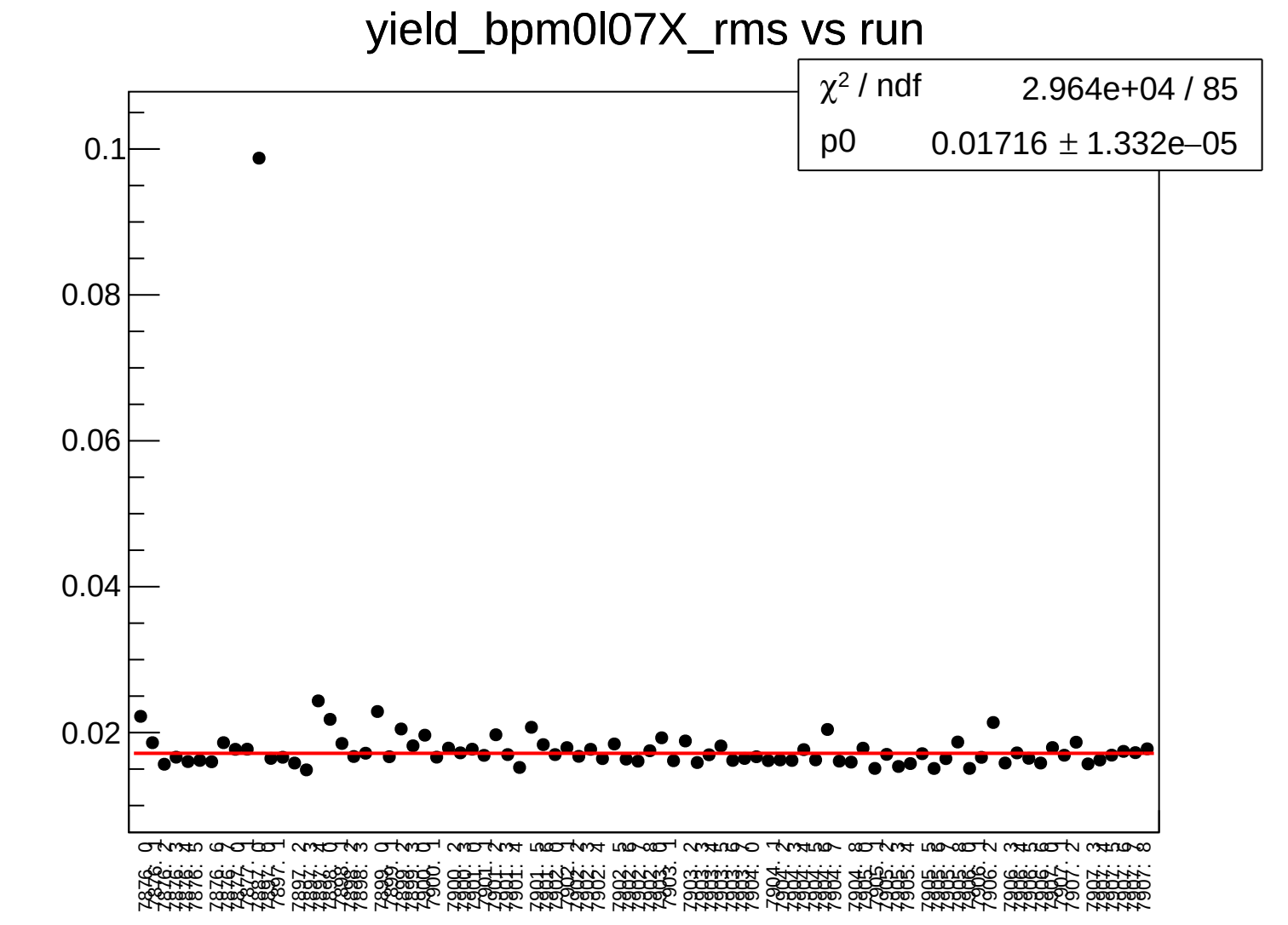

yield_bpm0l06Y_mean vs run
χ² / ndf 6.939e+04 / 85
p0 9.69 ± 6.656e−05
9.73
9.72
9.71
9.7
9.69
9.68
9.67
9.66
9.65
pull
Entries 86
Mean −2764
Std Dev 0
60
40
20
0
−20
−40
−60

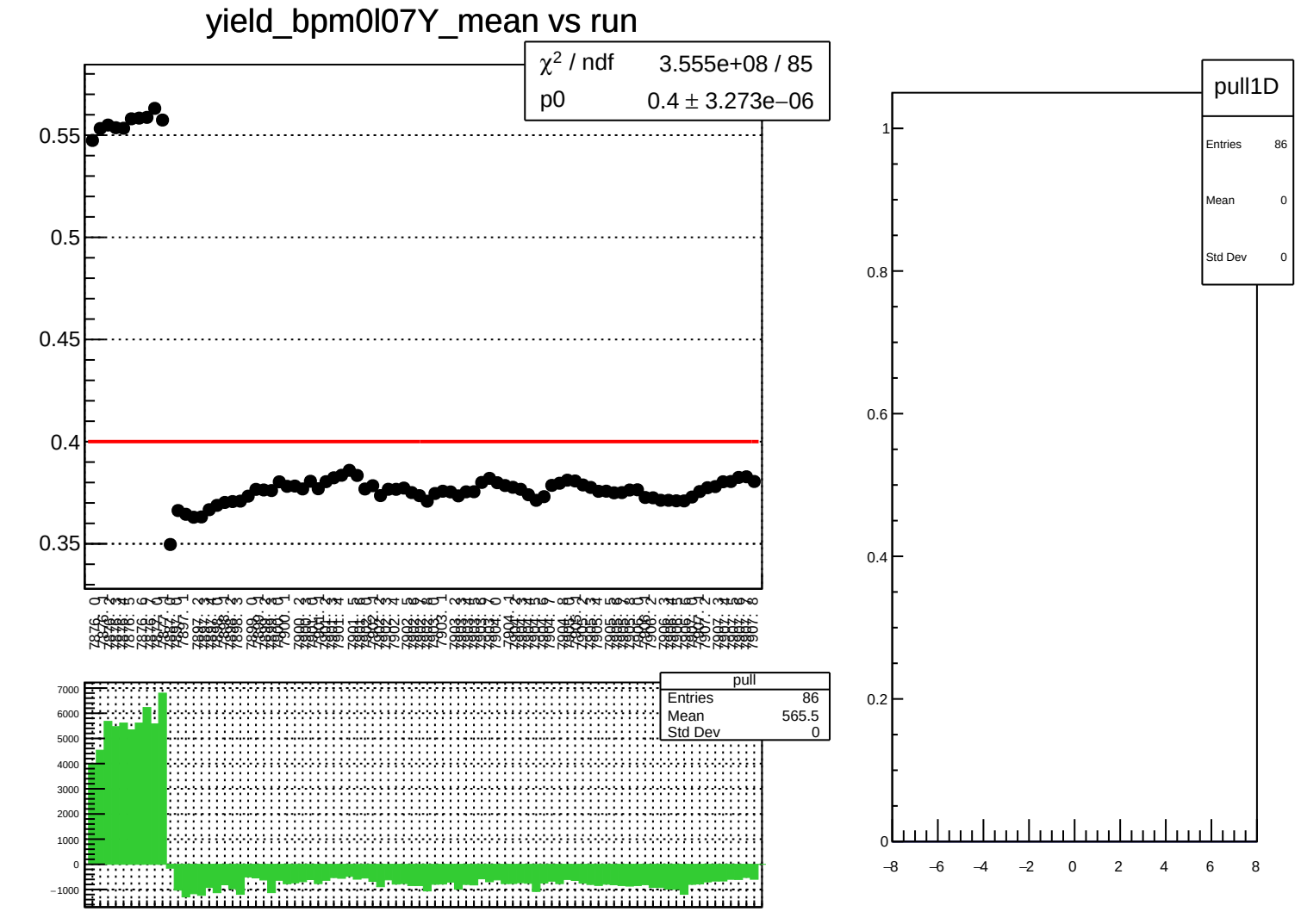

pull1D
Entries 86
Mean 0.1756
Std Dev 3.944
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

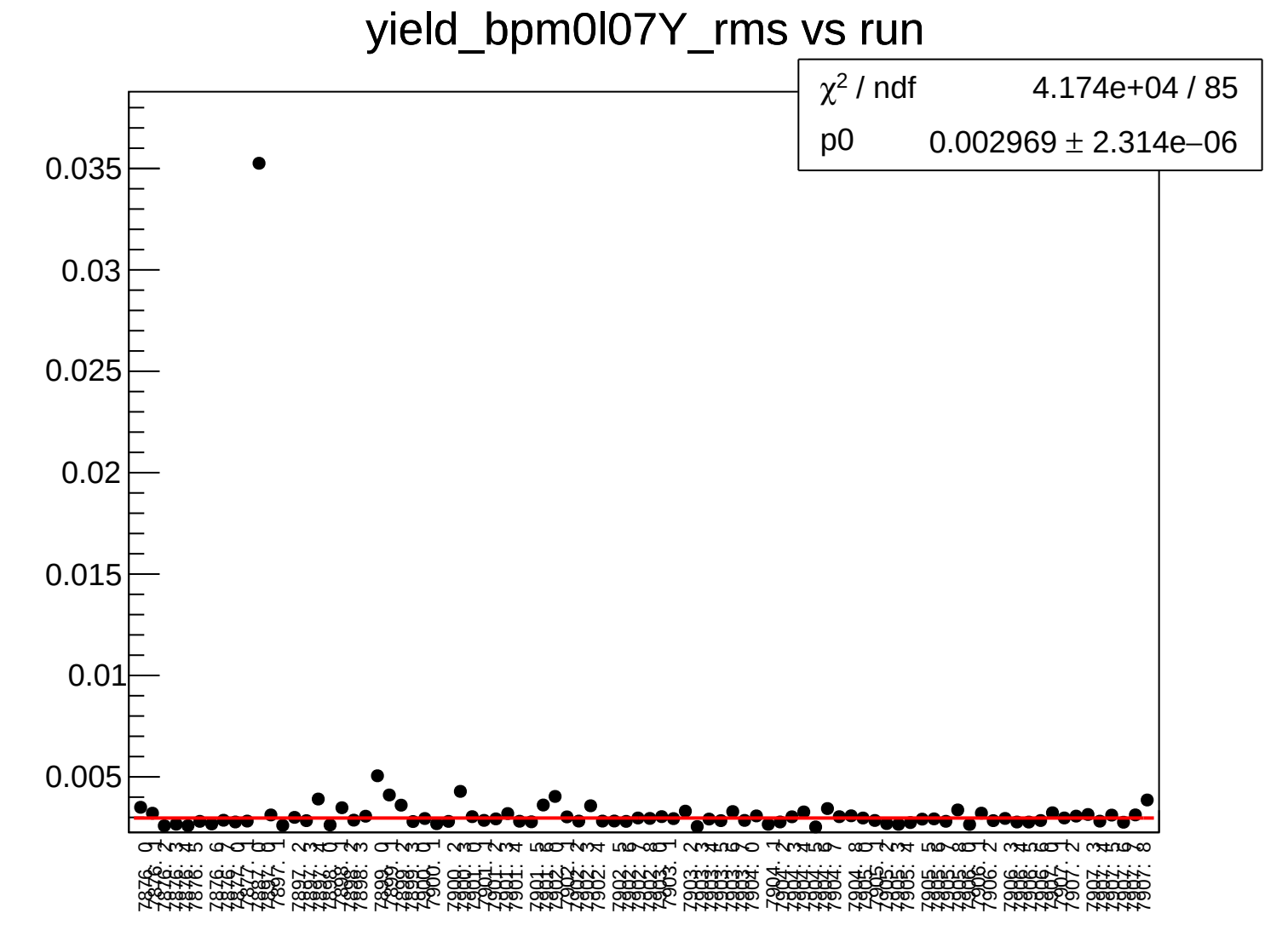

yield_bpm0l06Y_rms vs run
χ² / ndf 2597 / 85
p0 0.06109 ± 4.706e–05
0.066
0.064
0.062
0.06
0.058
0.056
0.054

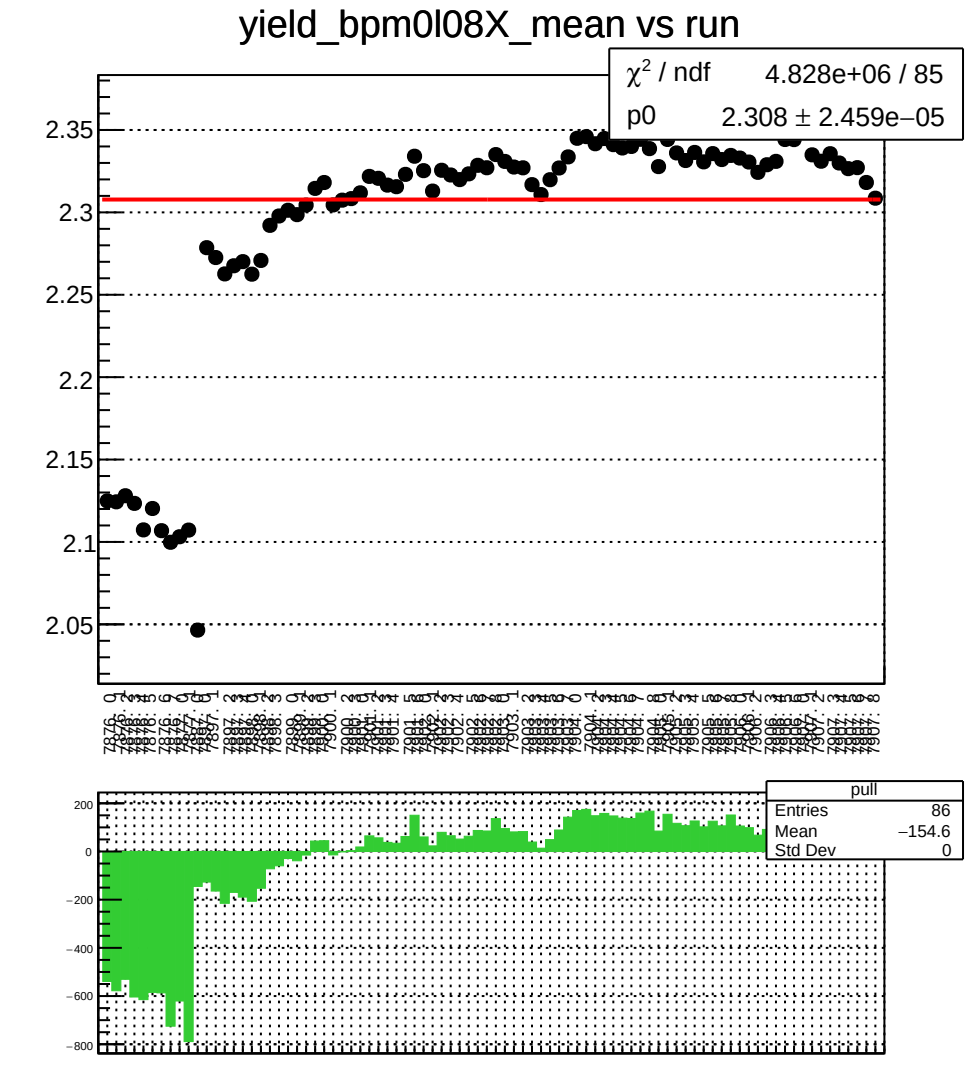

yield_bpm0l07X_mean vs run
χ² / ndf 7.693e+08 / 85
p0 −0.2866 ± 1.884e−05
pull
Entries 86
Mean −1.289e+05
Std Dev 0

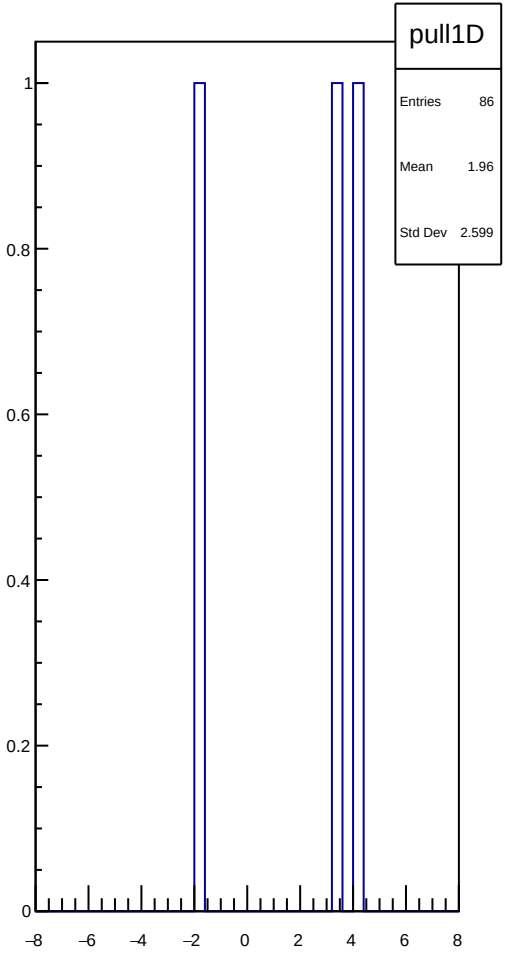

pull1D
Entries 86
Mean 0
Std Dev 0

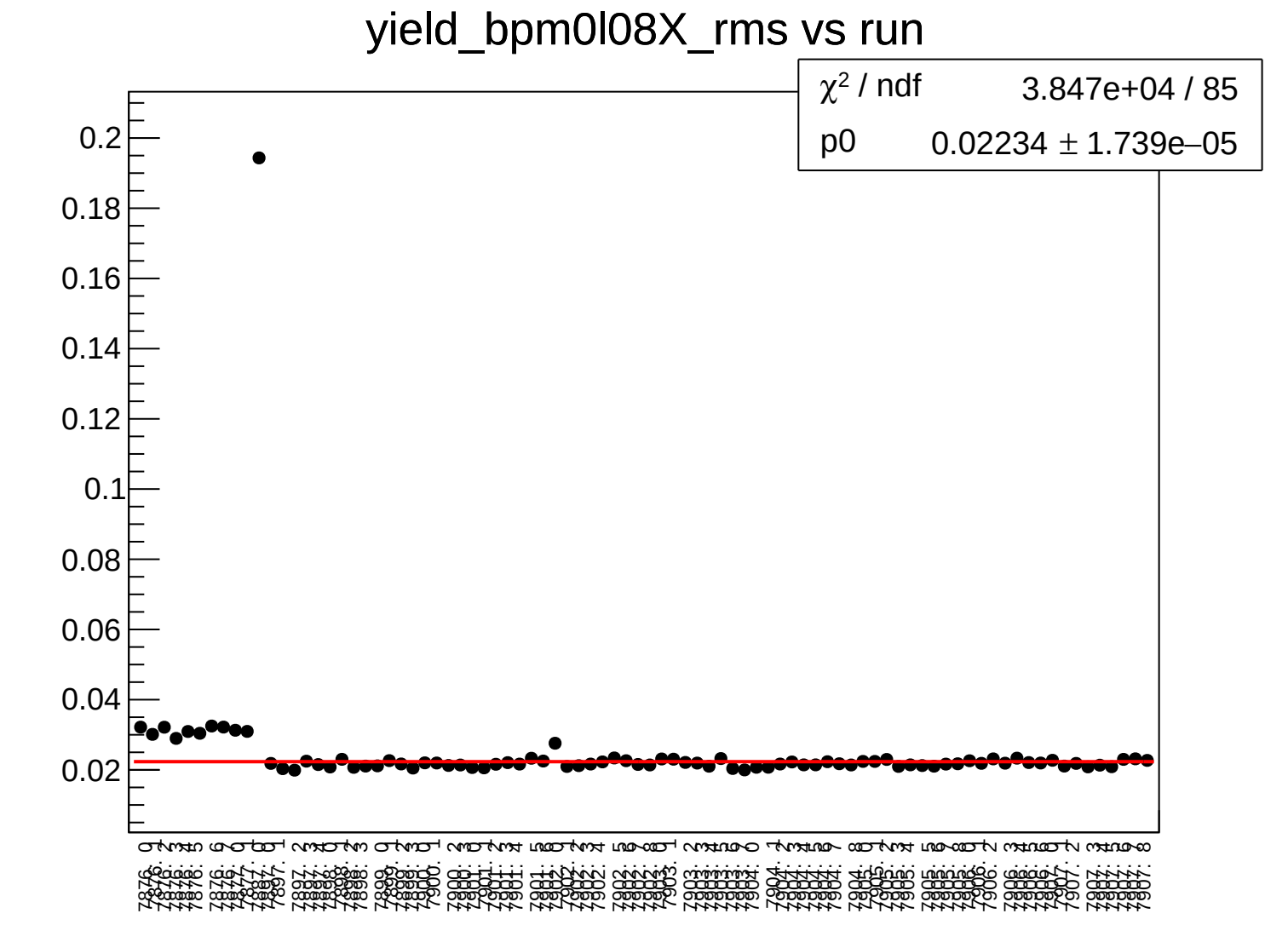

yield_bpm0l07X_rms vs run
χ² / ndf 2.964e+04 / 85
p0 0.01716 ± 1.332e–05
0.1
0.08
0.06
0.04
0.02

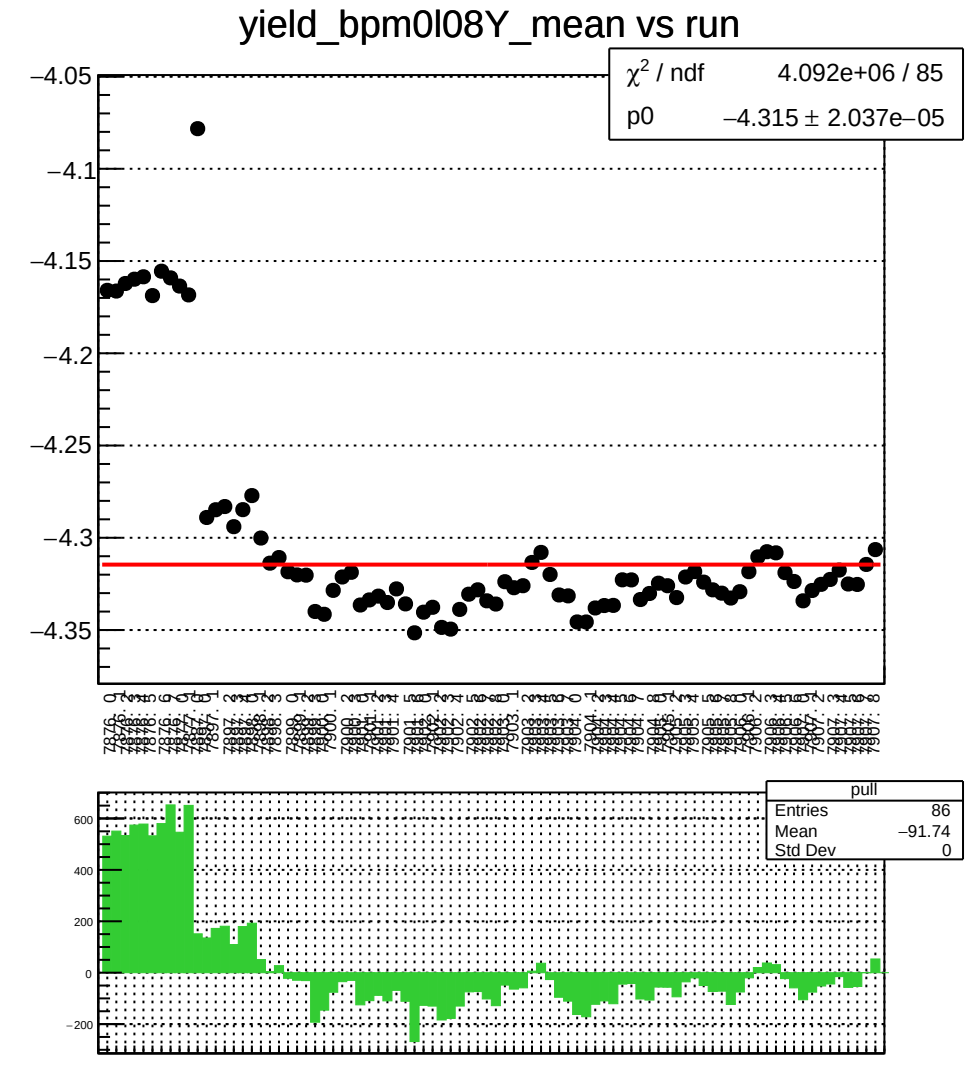

yield_bpm0l07Y_mean vs run
χ² / ndf 3.555e+08 / 85
p0 0.4 ± 3.273e−06
0.55
0.5
0.45
0.4
0.35
pull
Entries 86
Mean 565.5
Std Dev 0
7000
6000
5000
4000
3000
2000
1000
0
−1000
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

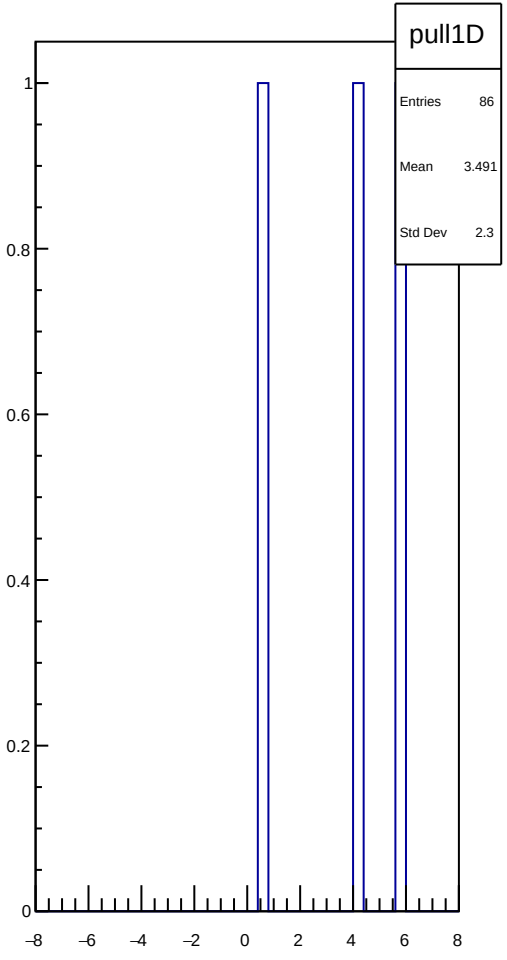

yield_bpm0l07Y_rms vs run
χ² / ndf 4.174e+04 / 85
p0 0.002969 ± 2.314e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

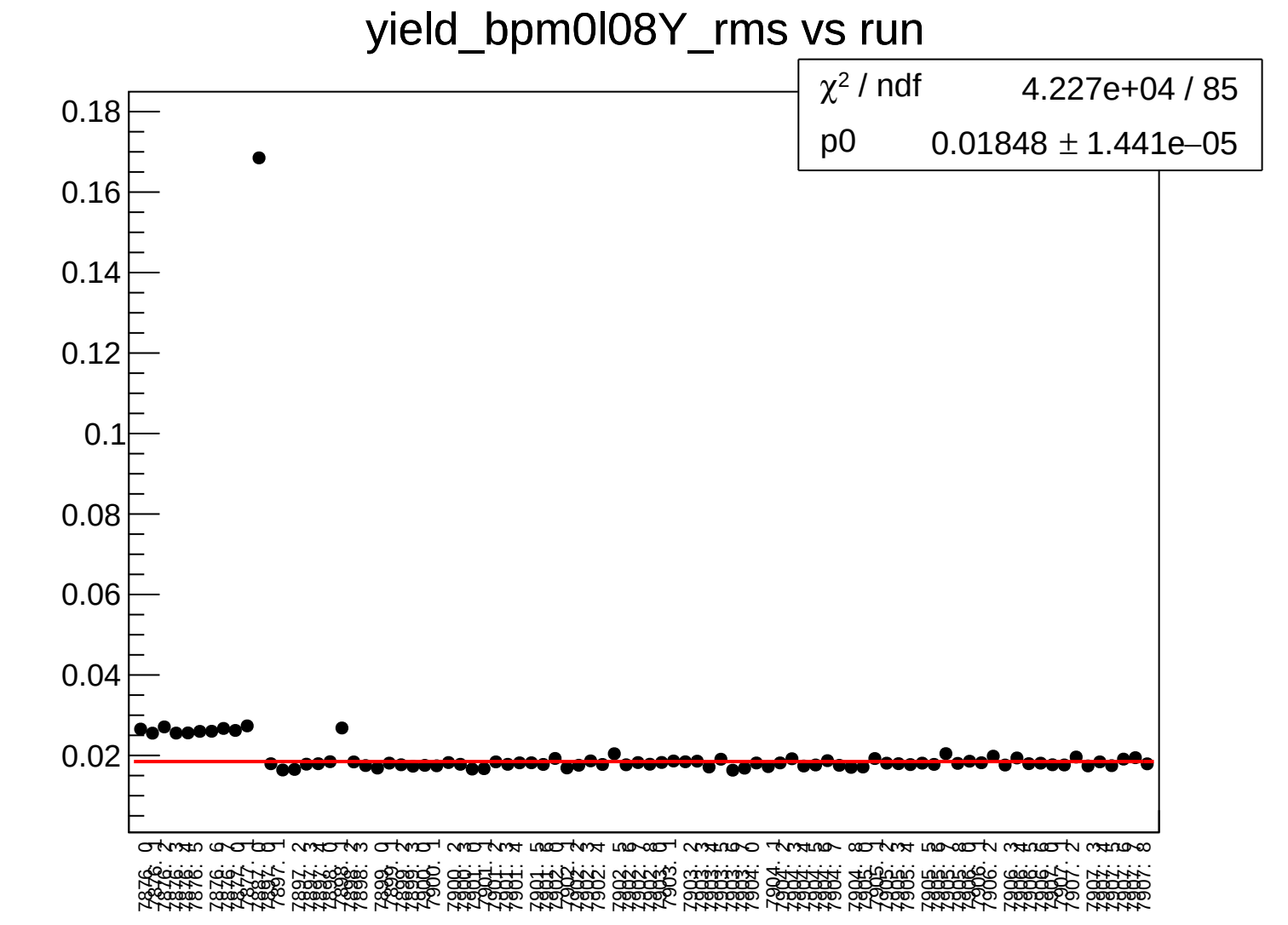

yield_bpm0l08X_mean vs run
χ² / ndf 4.828e+06 / 85
p0 2.308 ± 2.459e−05
2.35
2.3
2.25
2.2
2.15
2.1
2.05
pull
Entries 86
Mean −154.6
Std Dev 0
200
0
−200
−400
−600
−800

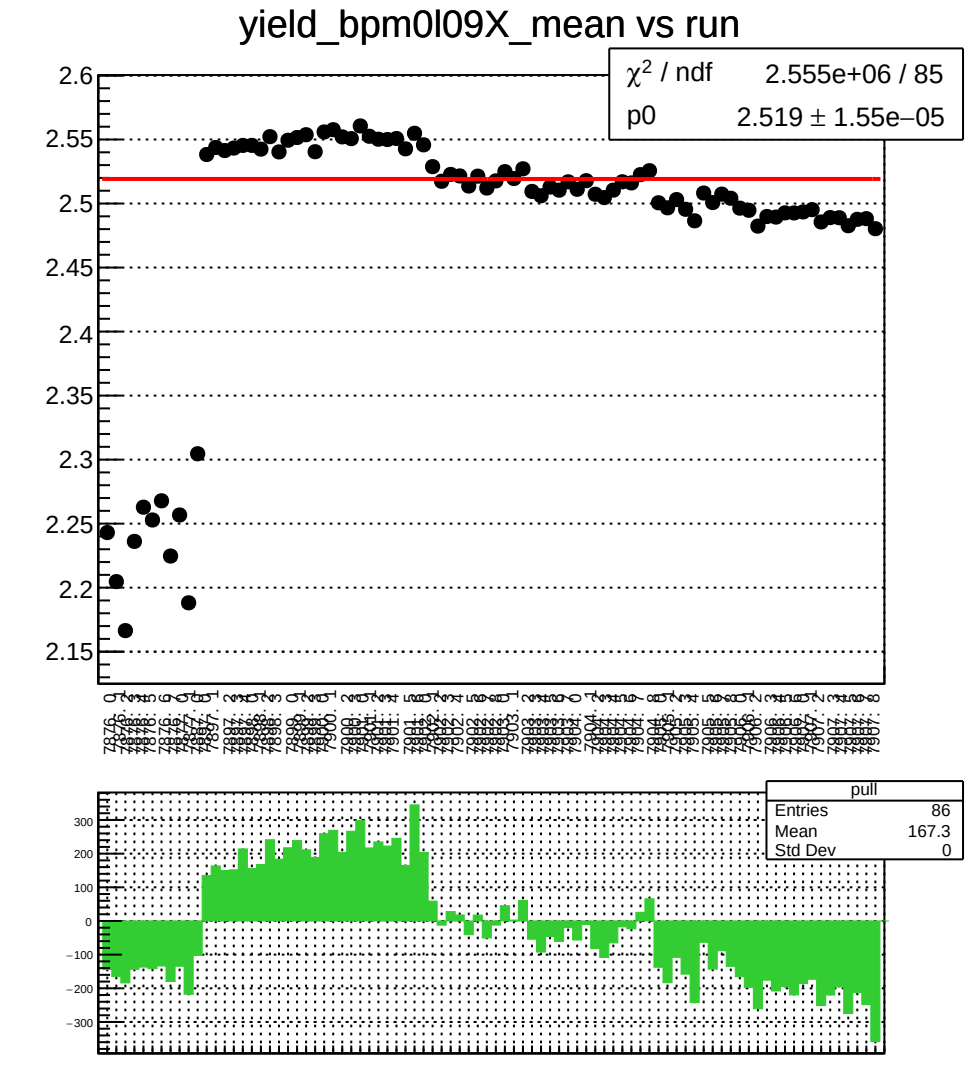

pull1D
Entries 86
Mean 1.96
Std Dev 2.599
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

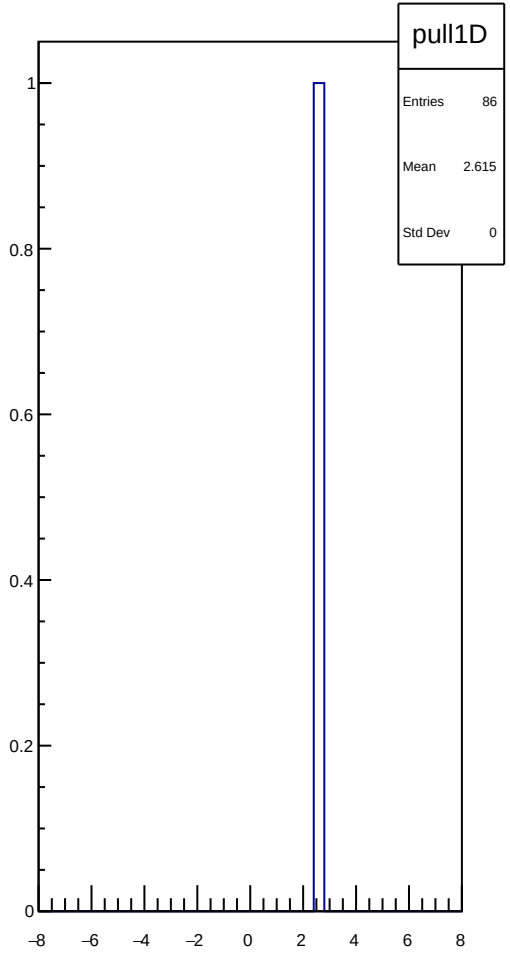

yield_bpm0l08X_rms vs run
χ² / ndf 3.847e+04 / 85
p0 0.02234 ± 1.739e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

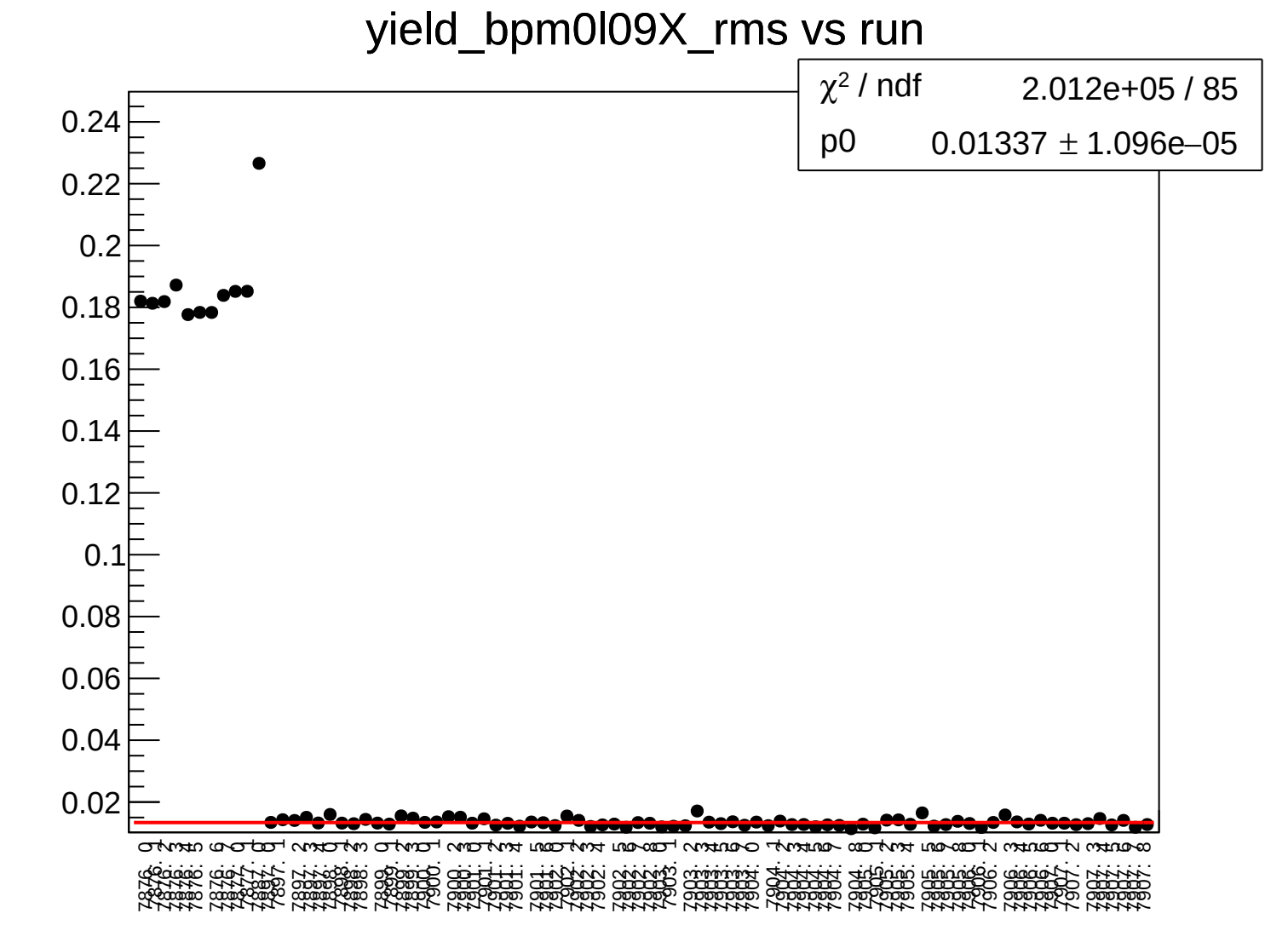

yield_bpm0l08Y_mean vs run
χ² / ndf 4.092e+06 / 85
p0 −4.315 ± 2.037e−05
−4.05
−4.1
−4.15
−4.2
−4.25
−4.3
−4.35
pull
Entries 86
Mean −91.74
Std Dev 0
600
400
200
0
−200

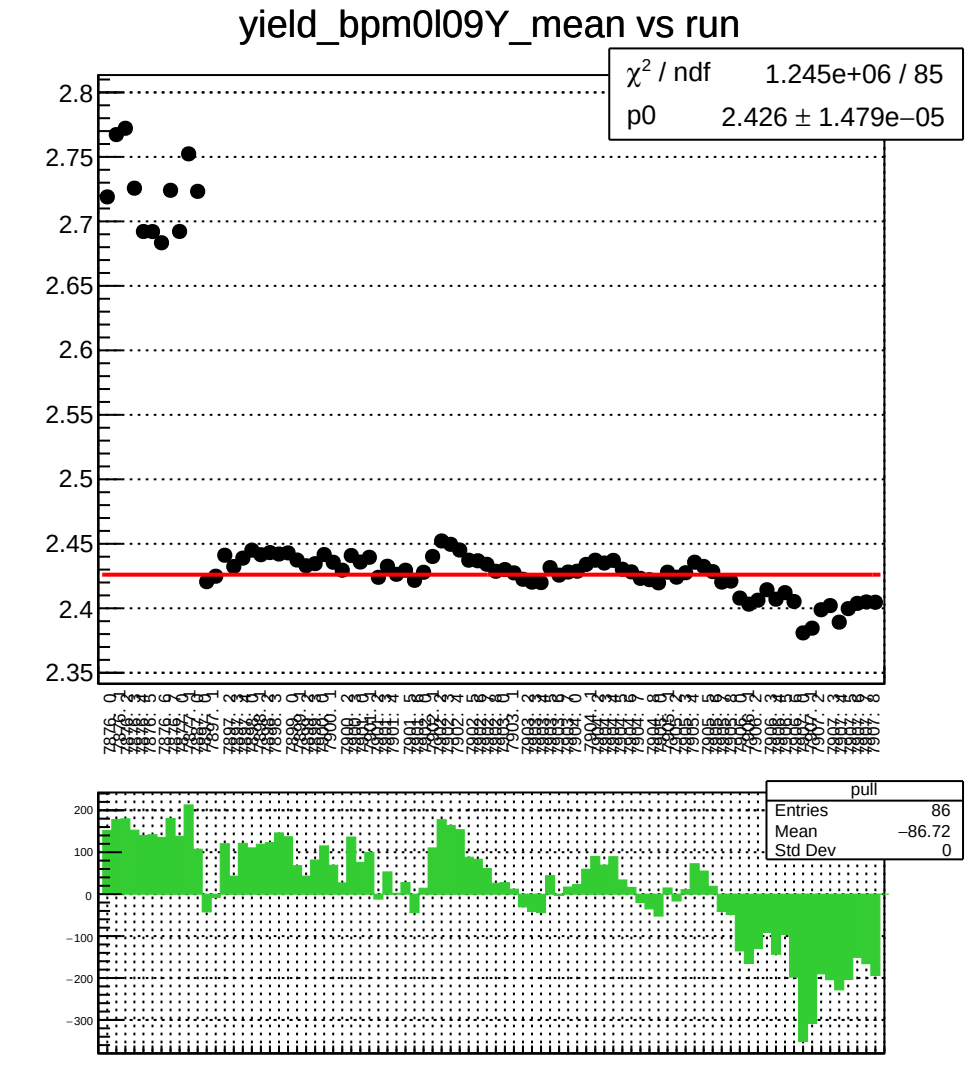

pull1D
Entries 86
Mean 3.491
Std Dev 2.3
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

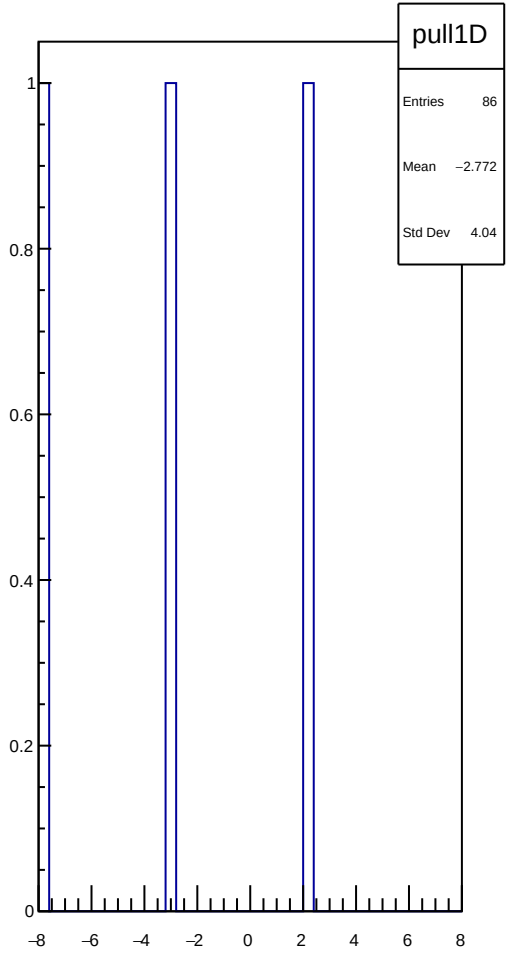

yield_bpm0l08Y_rms vs run
χ² / ndf 4.227e+04 / 85
p0 0.01848 ± 1.441e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

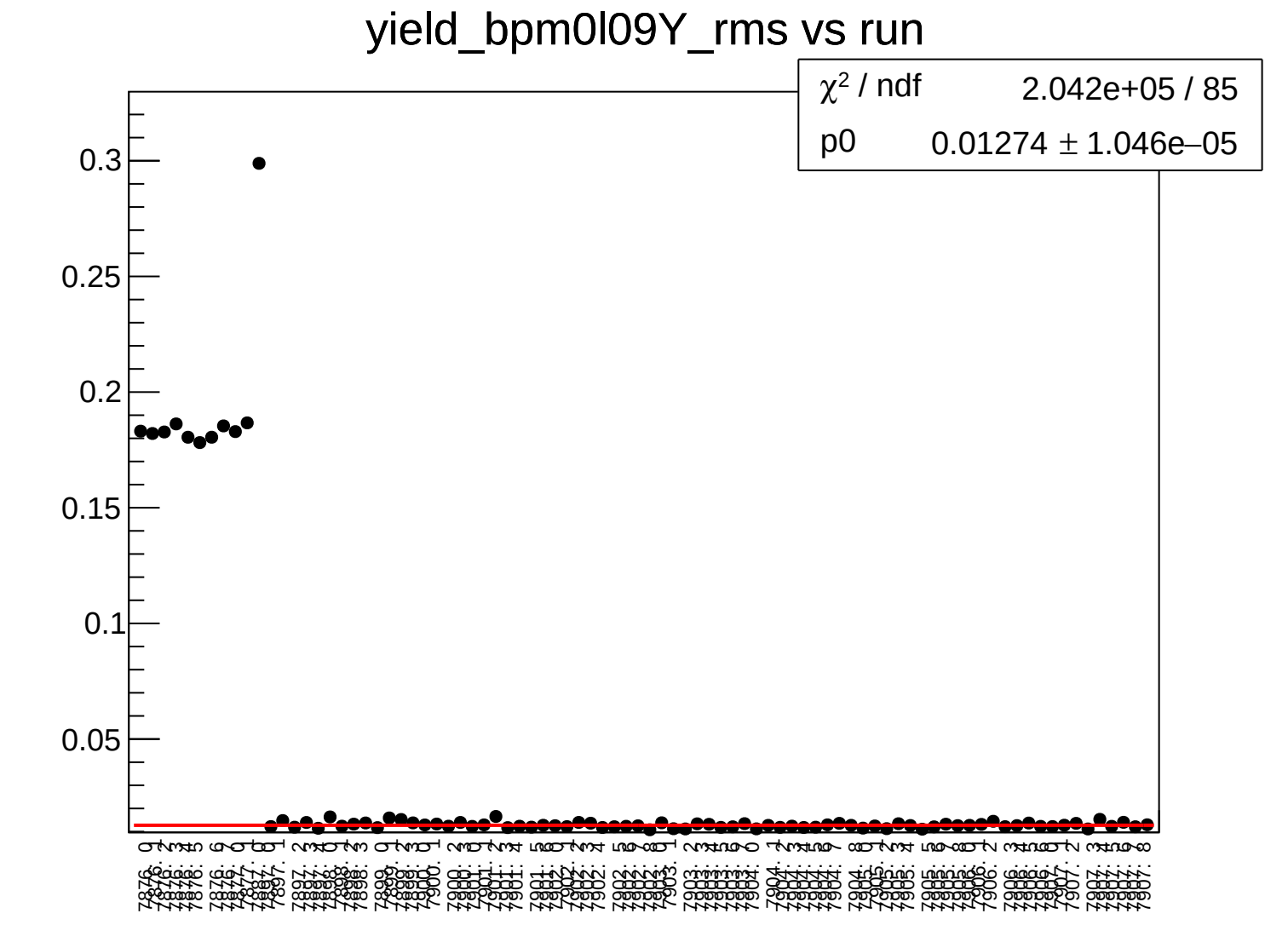

yield_bpm0l09X_mean vs run
χ² / ndf 2.555e+06 / 85
p0 2.519 ± 1.55e−05
pull
Entries 86
Mean 167.3
Std Dev 0

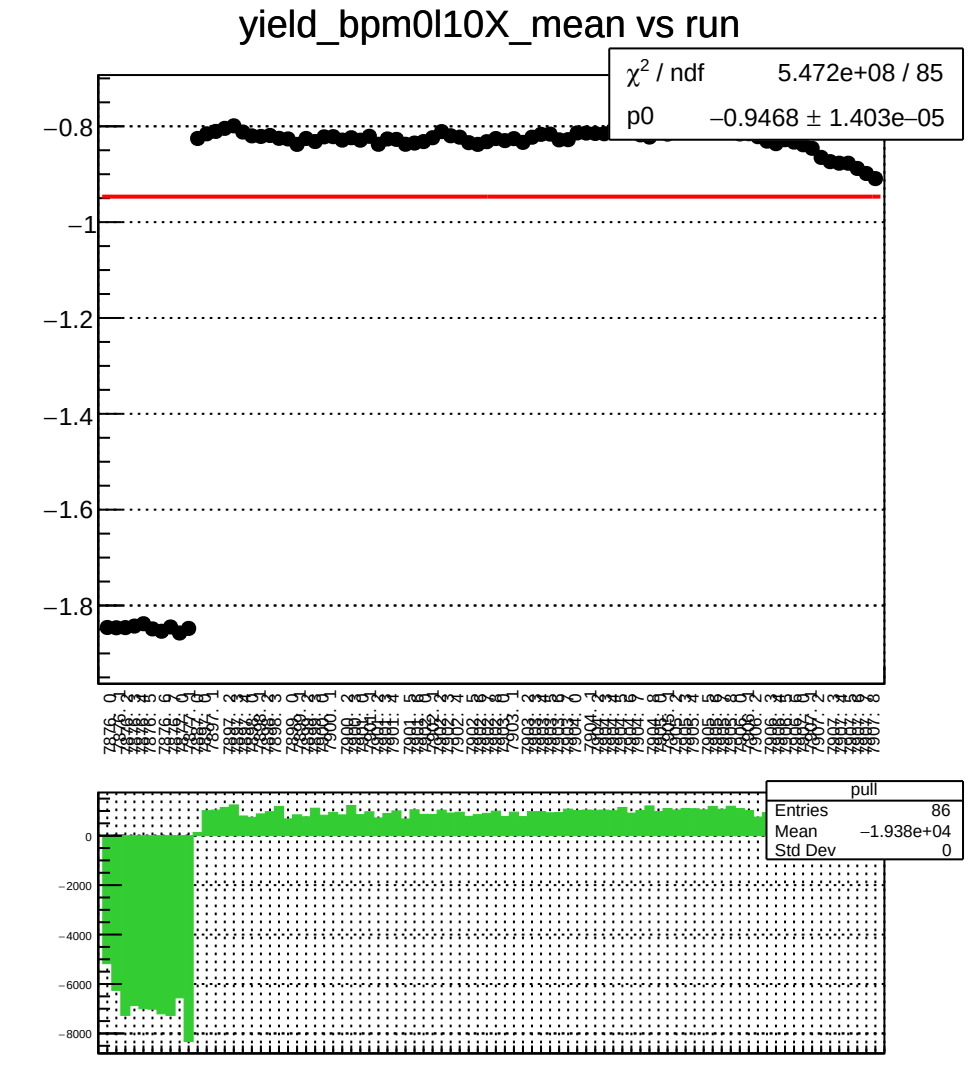

pull1D
Entries 86
Mean 2.615
Std Dev 0

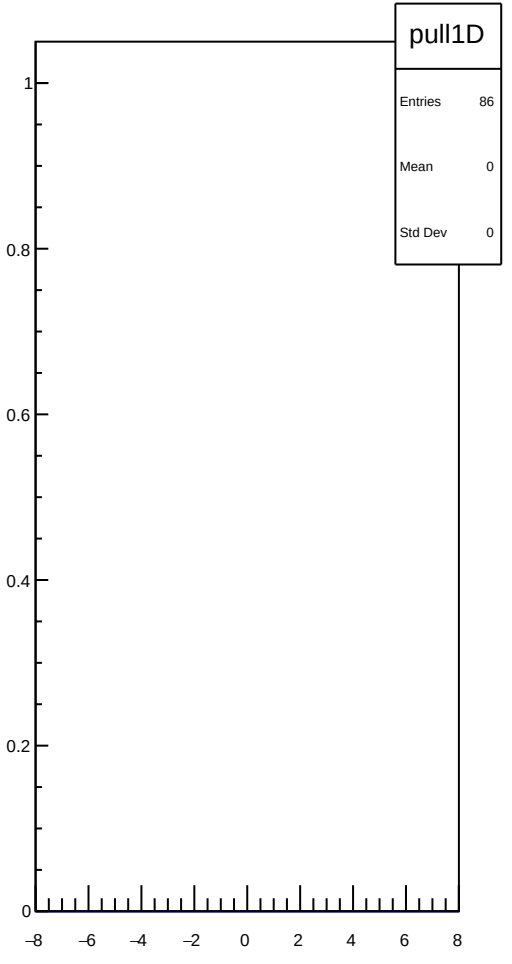

yield_bpm0l09X_rms vs run
χ² / ndf 2.012e+05 / 85
p0 0.01337 ± 1.096e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

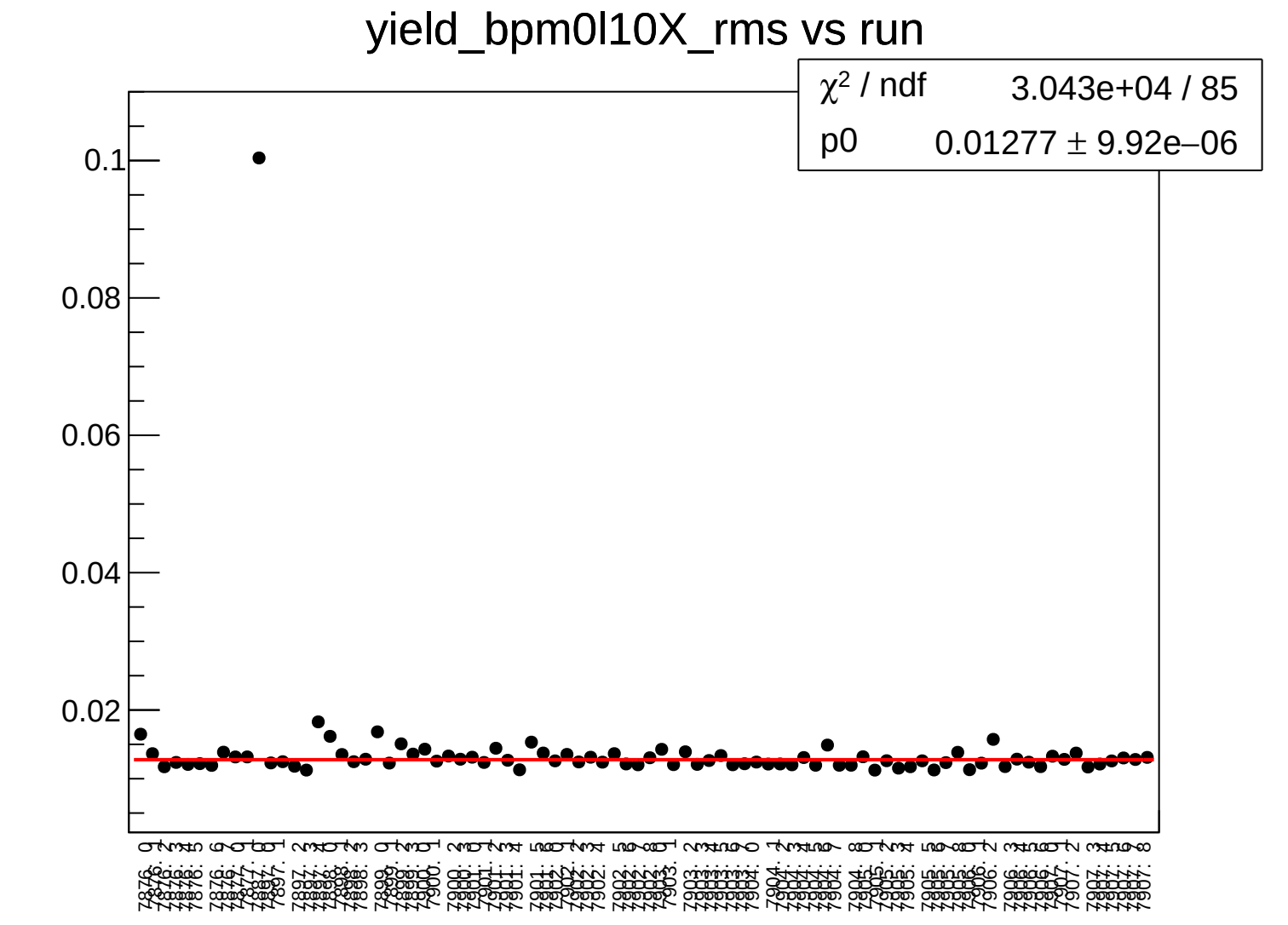

yield_bpm0l09Y_mean vs run
χ² / ndf 1.245e+06 / 85
p0 2.426 ± 1.479e−05
pull
Entries 86
Mean −86.72
Std Dev 0

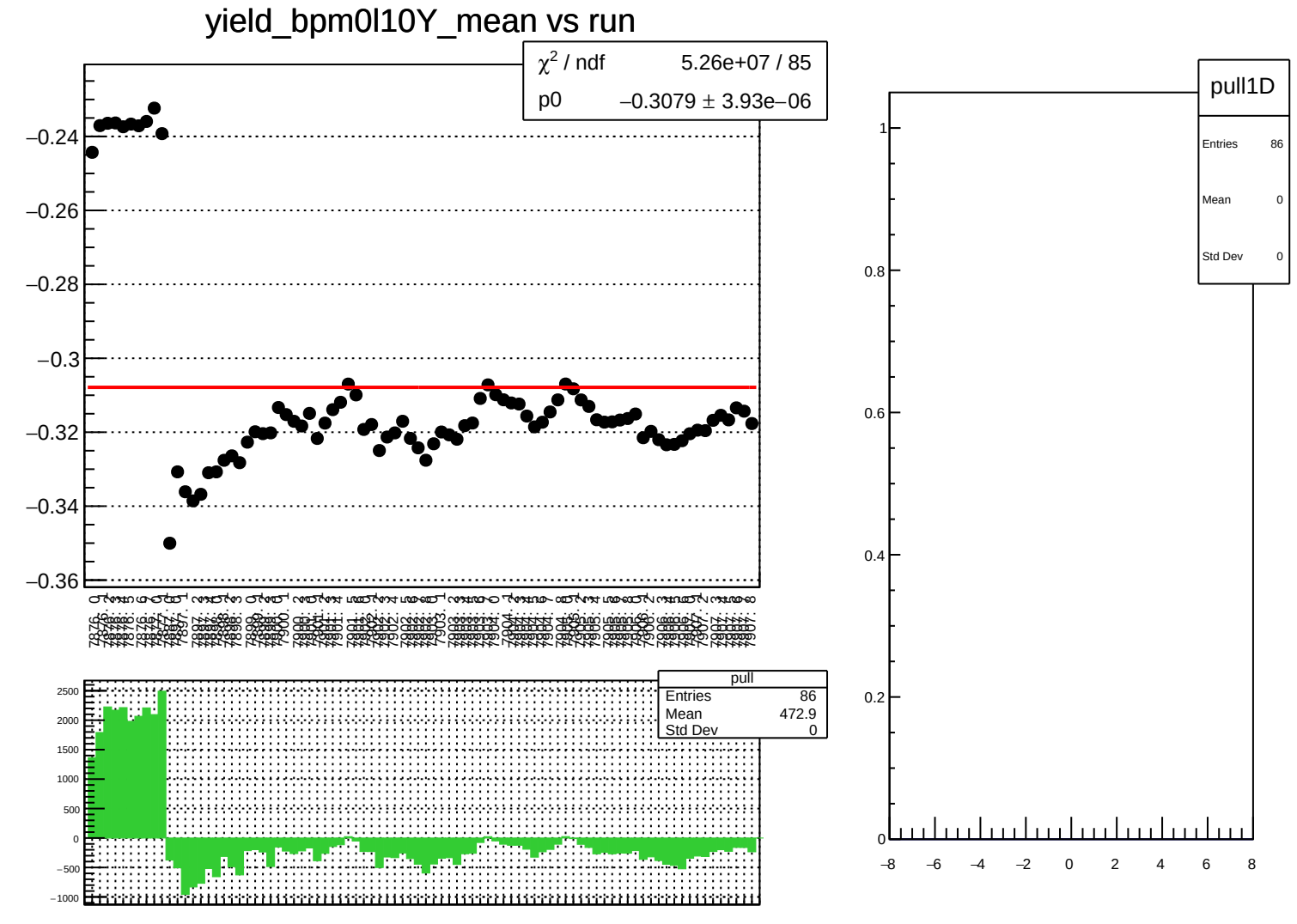

pull1D
Entries 86
Mean −2.772
Std Dev 4.04

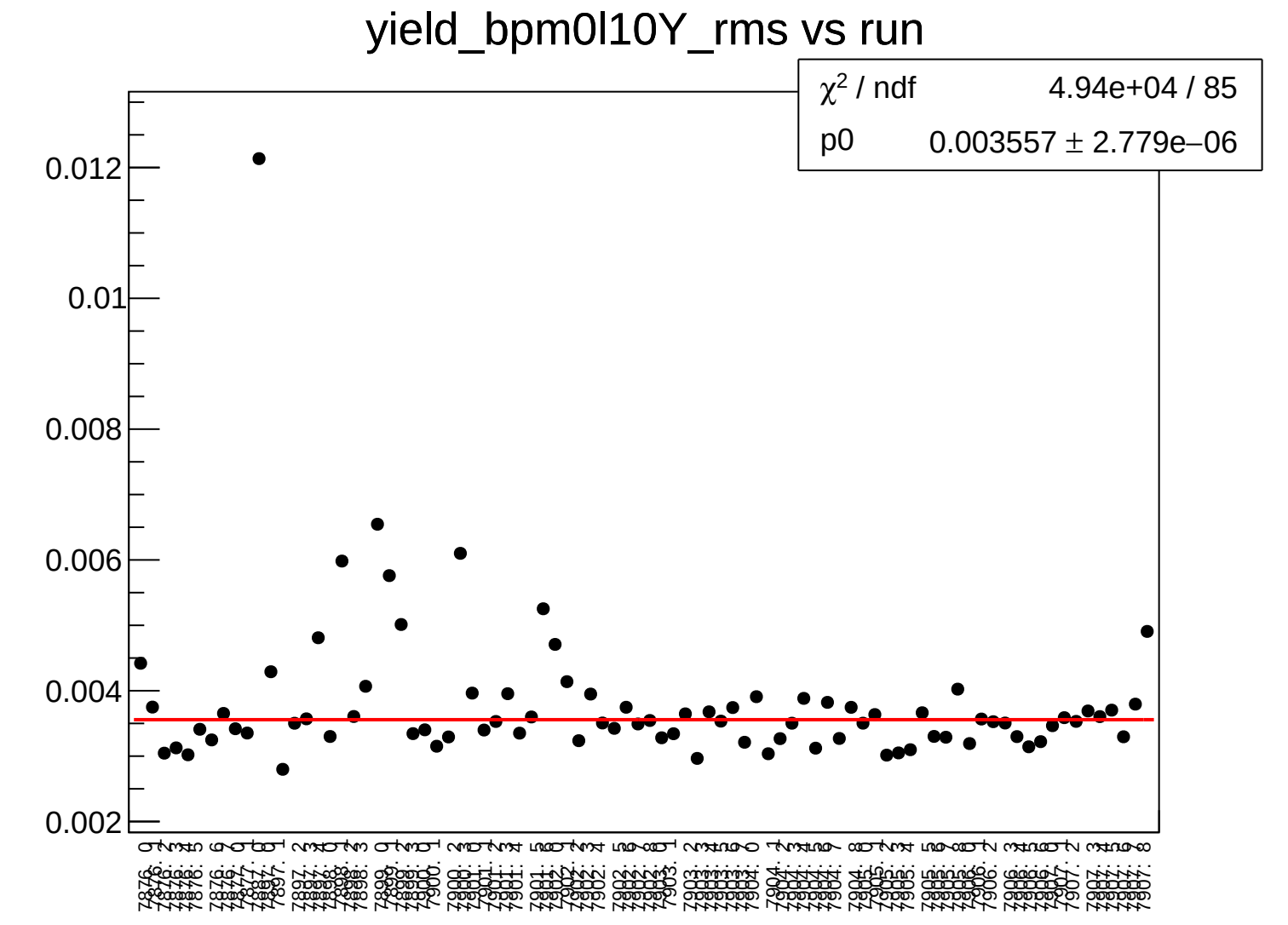

yield_bpm0l09Y_rms vs run
χ² / ndf 2.042e+05 / 85
p0 0.01274 ± 1.046e−05
0.3
0.25
0.2
0.15
0.1
0.05

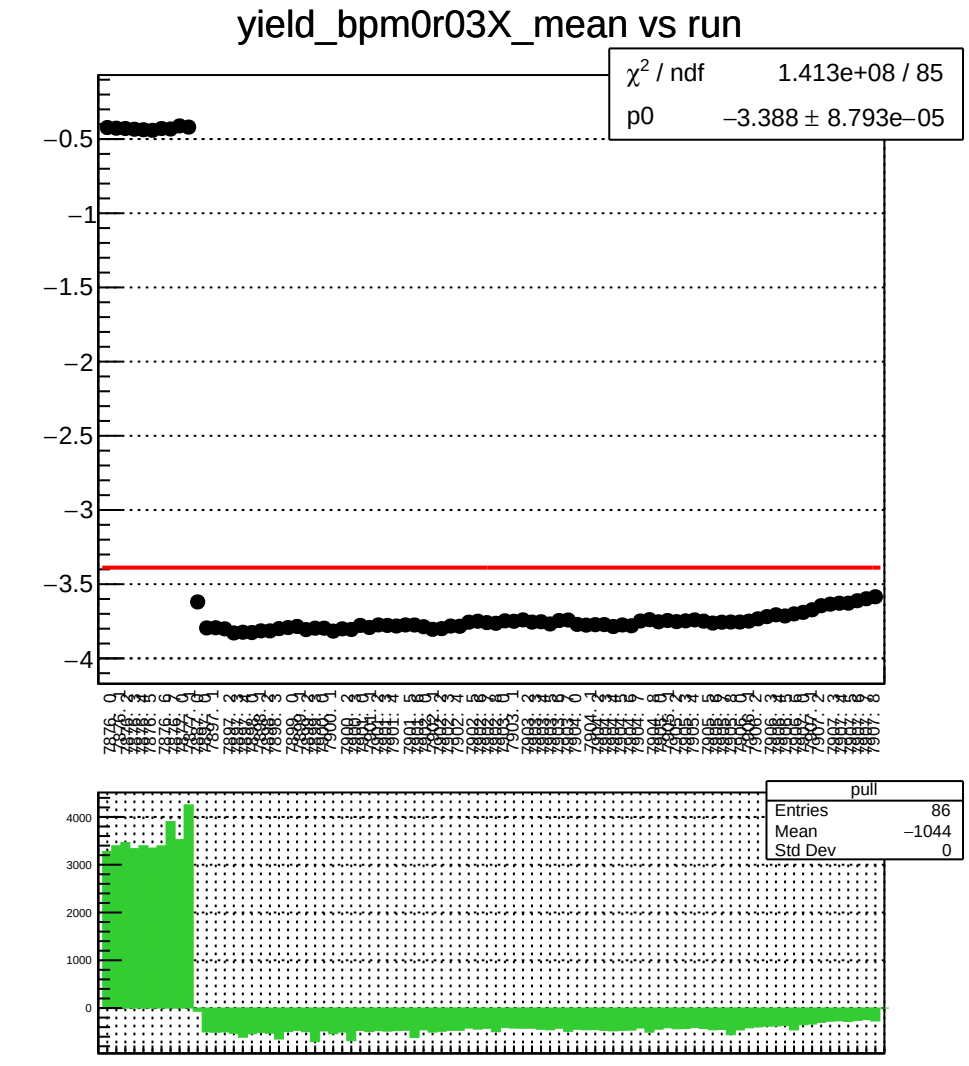

yield_bpm0l10X_mean vs run
χ² / ndf 5.472e+08 / 85
p0 −0.9468 ± 1.403e−05
−0.8
−1
−1.2
−1.4
−1.6
−1.8
pull
Entries 86
Mean −1.938e+04
Std Dev 0
0
−2000
−4000
−6000
−8000

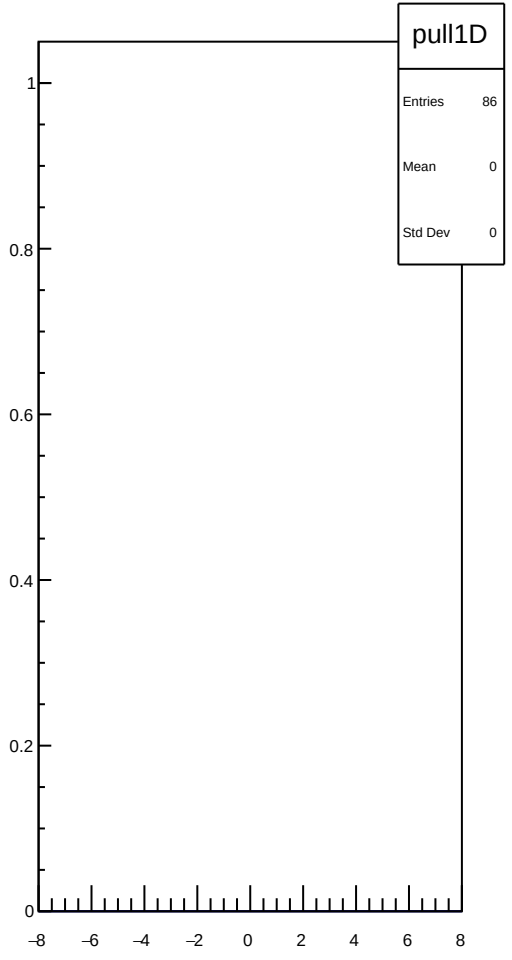

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

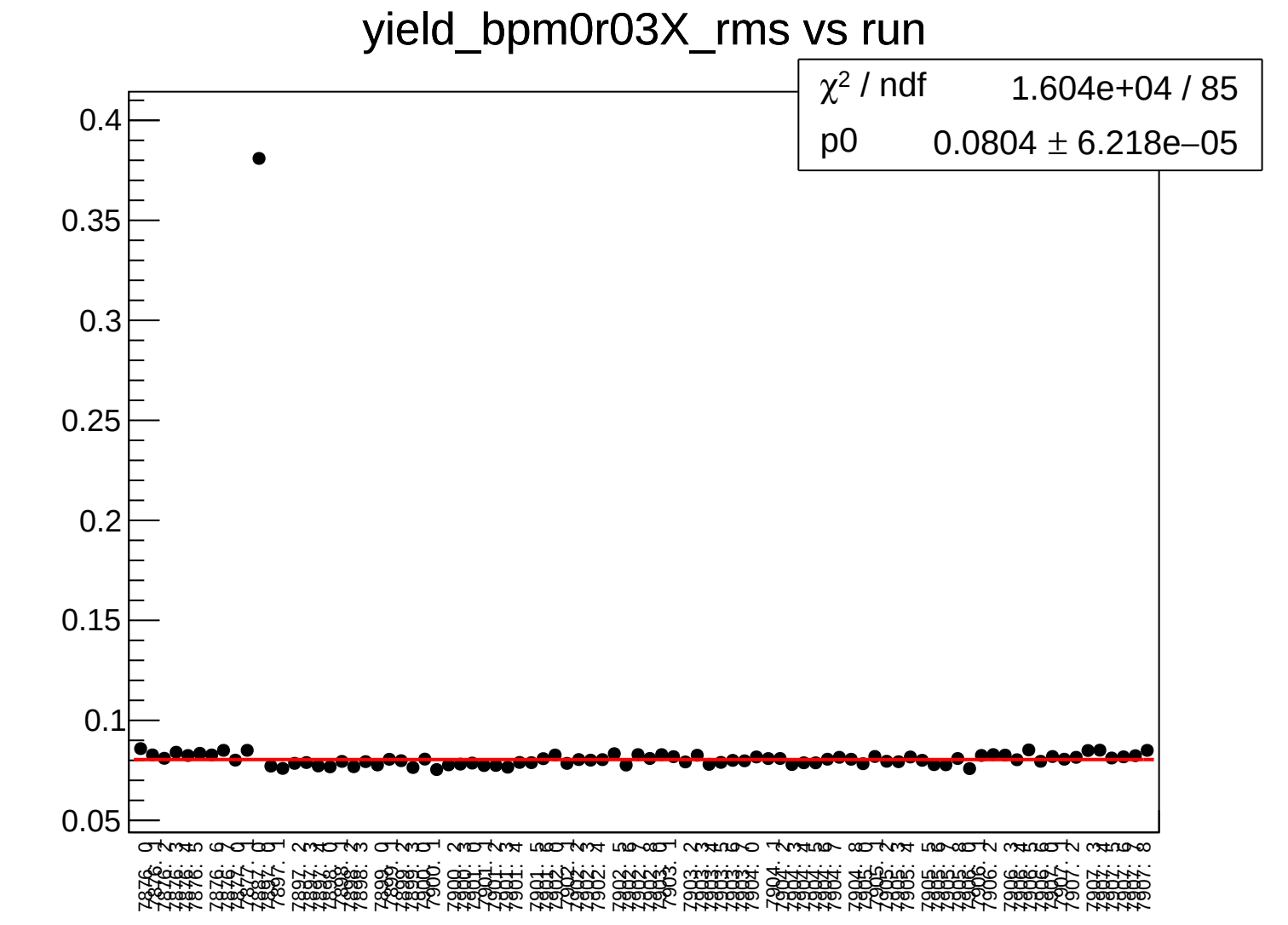

yield_bpm0l10X_rms vs run
χ² / ndf 3.043e+04 / 85
p0 0.01277 ± 9.92e−06
0.1
0.08
0.06
0.04
0.02

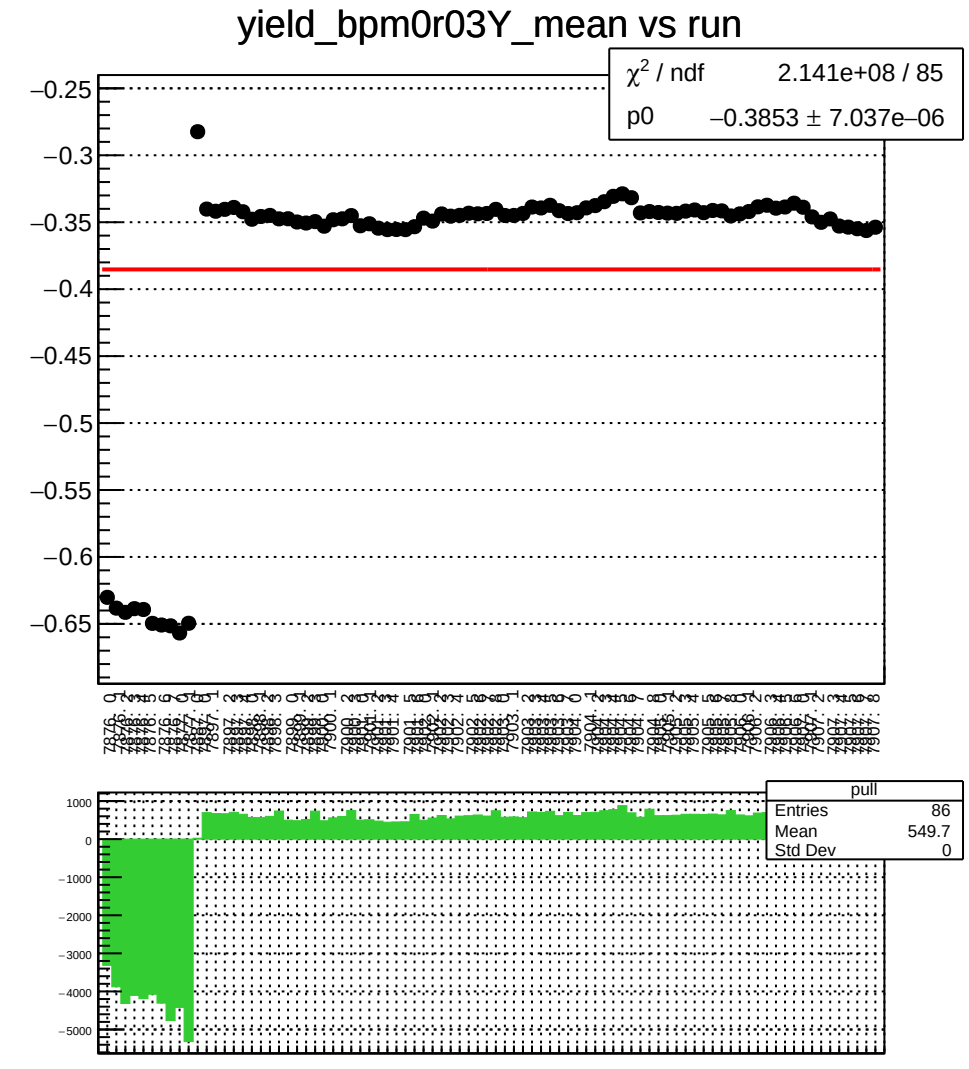

yield_bpm0l10Y_mean vs run
χ² / ndf 5.26e+07 / 85
p0 −0.3079 ± 3.93e−06
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 86
Mean 472.9
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

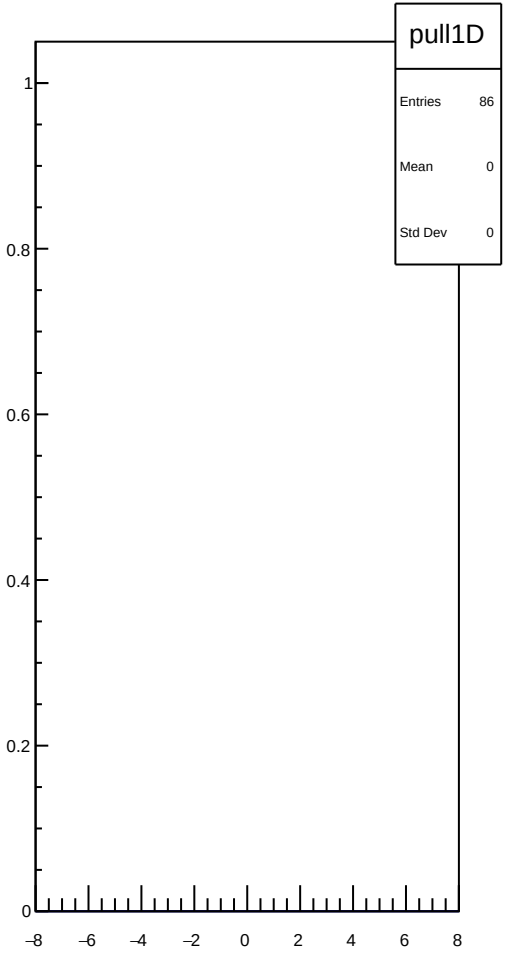

yield_bpm0l10Y_rms vs run
χ² / ndf 4.94e+04 / 85
p0 0.003557 ± 2.779e−06
0.012
0.01
0.008
0.006
0.004
0.002

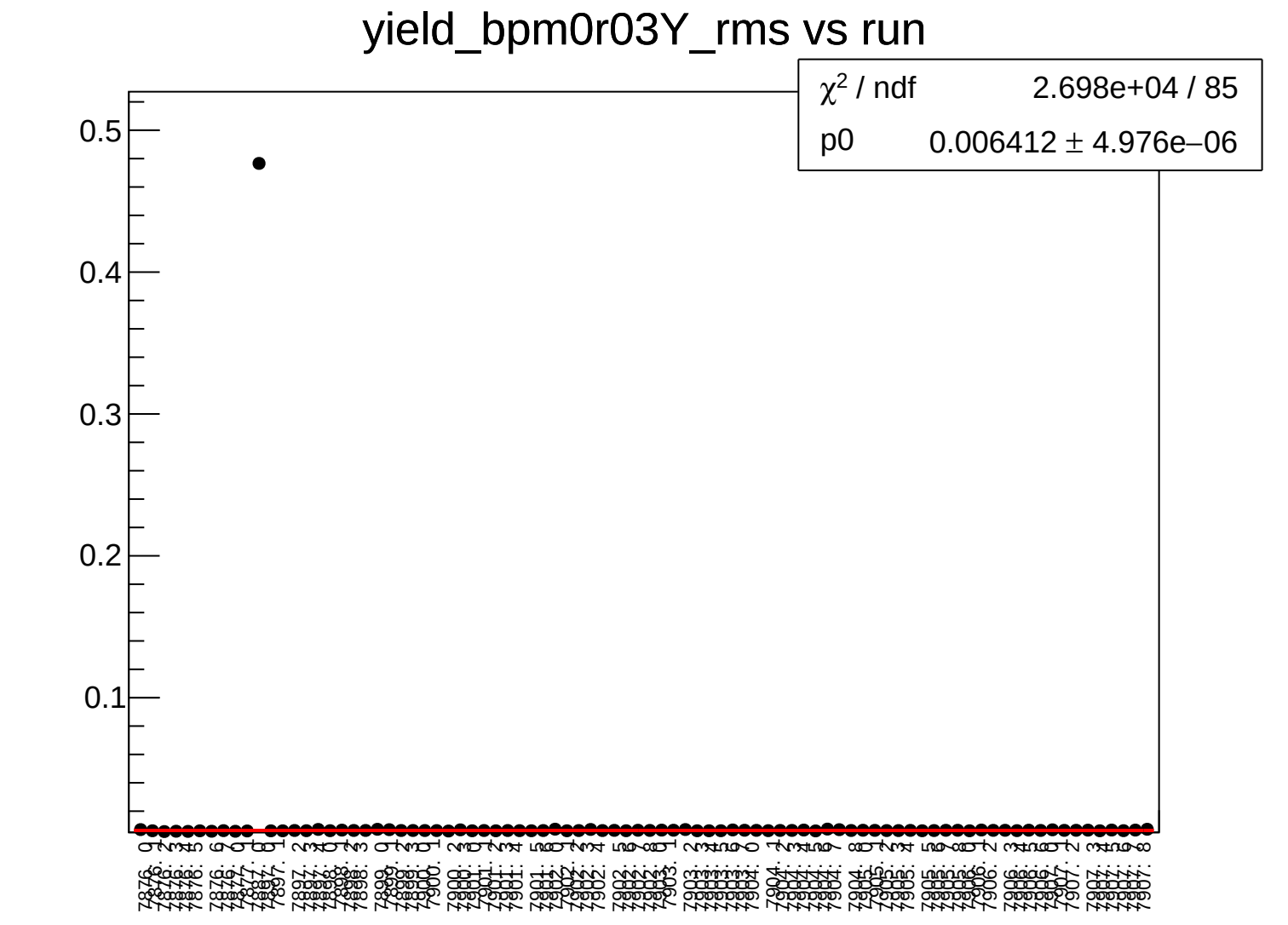

yield_bpm0r03X_mean vs run
χ² / ndf 1.413e+08 / 85
p0 −3.388 ± 8.793e−05
pull
Entries 86
Mean −1044
Std Dev 0

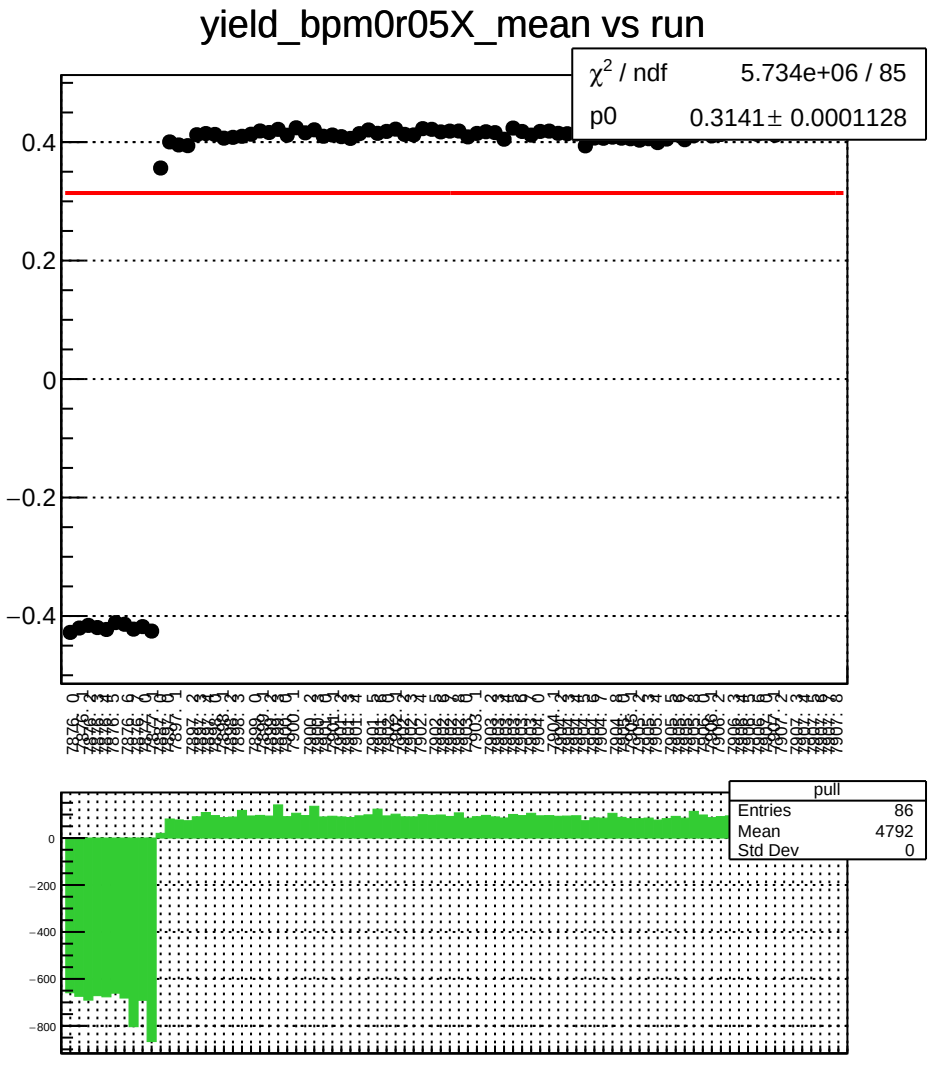

pull1D
Entries 86
Mean 0
Std Dev 0

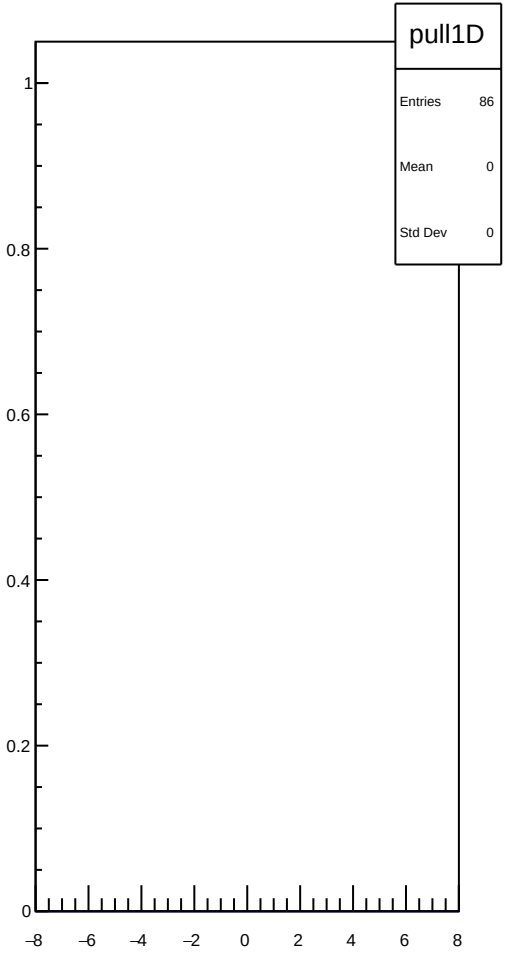

yield_bpm0r03X_rms vs run
χ² / ndf 1.604e+04 / 85
p0 0.0804 ± 6.218e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

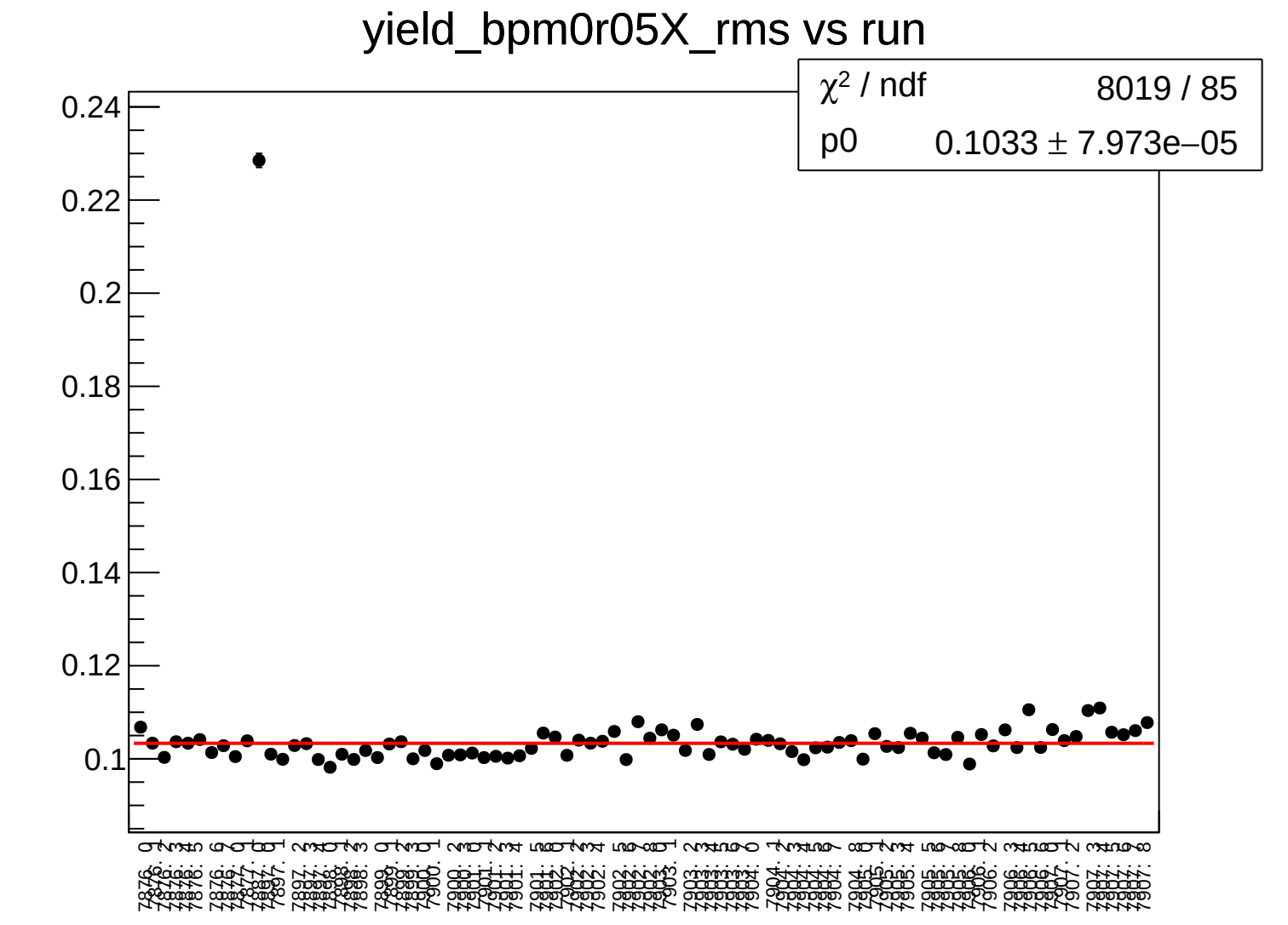

yield_bpm0r03Y_mean vs run
χ² / ndf 2.141e+08 / 85
p0 −0.3853 ± 7.037e−06
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
pull
Entries 86
Mean 549.7
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
−5000

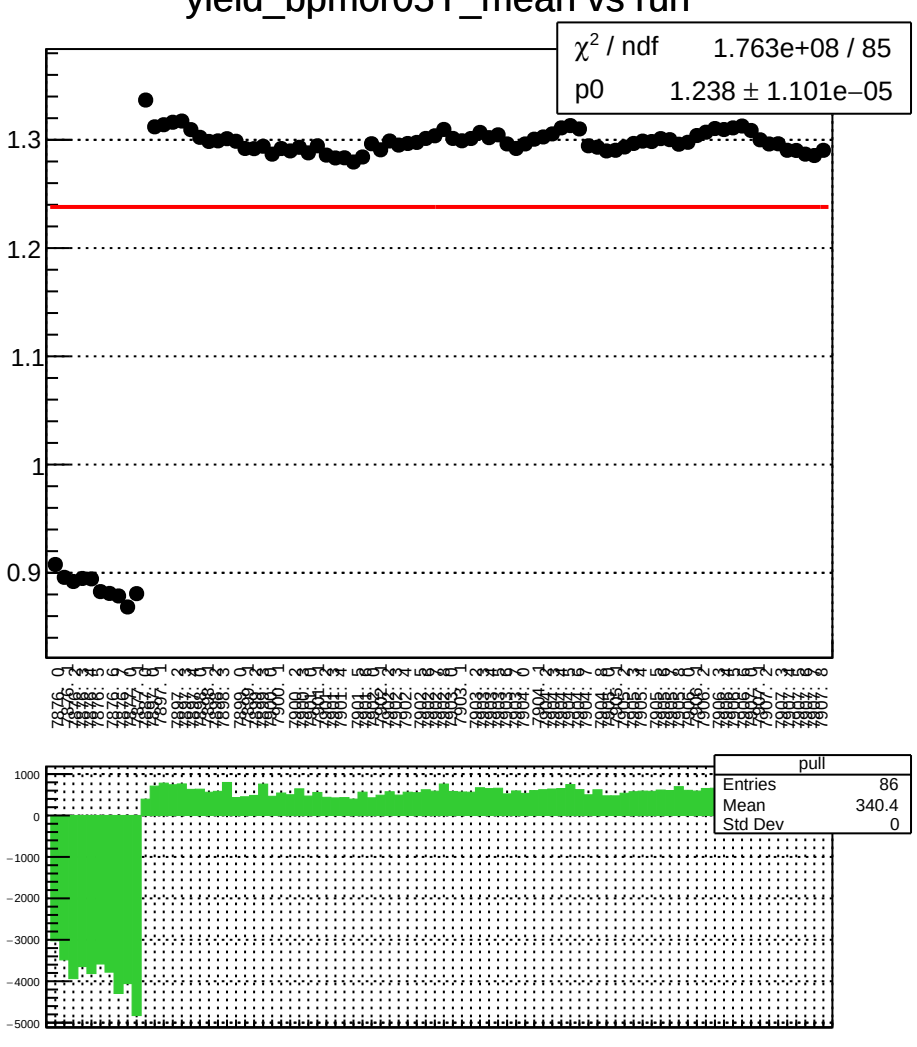

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

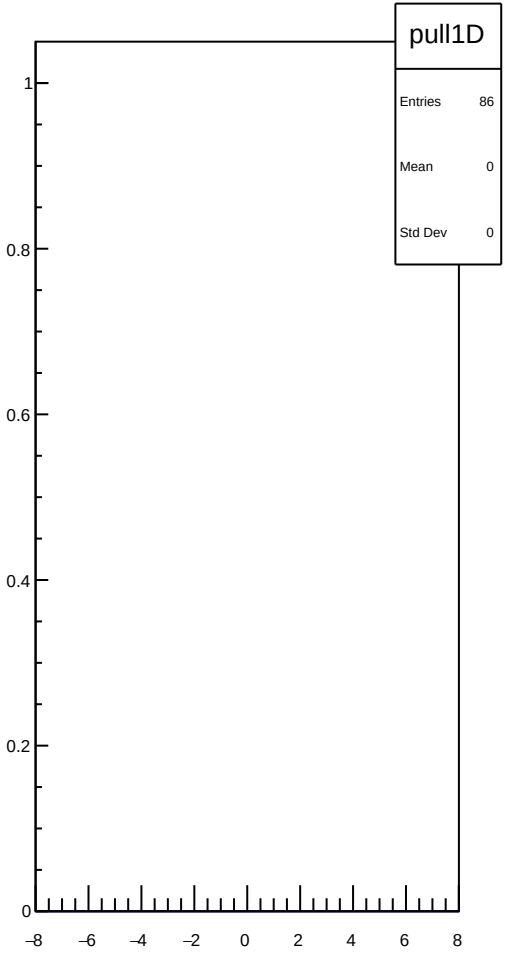

yield_bpm0r03Y_rms vs run
χ² / ndf 2.698e+04 / 85
p0 0.006412 ± 4.976e−06
0.5
0.4
0.3
0.2
0.1

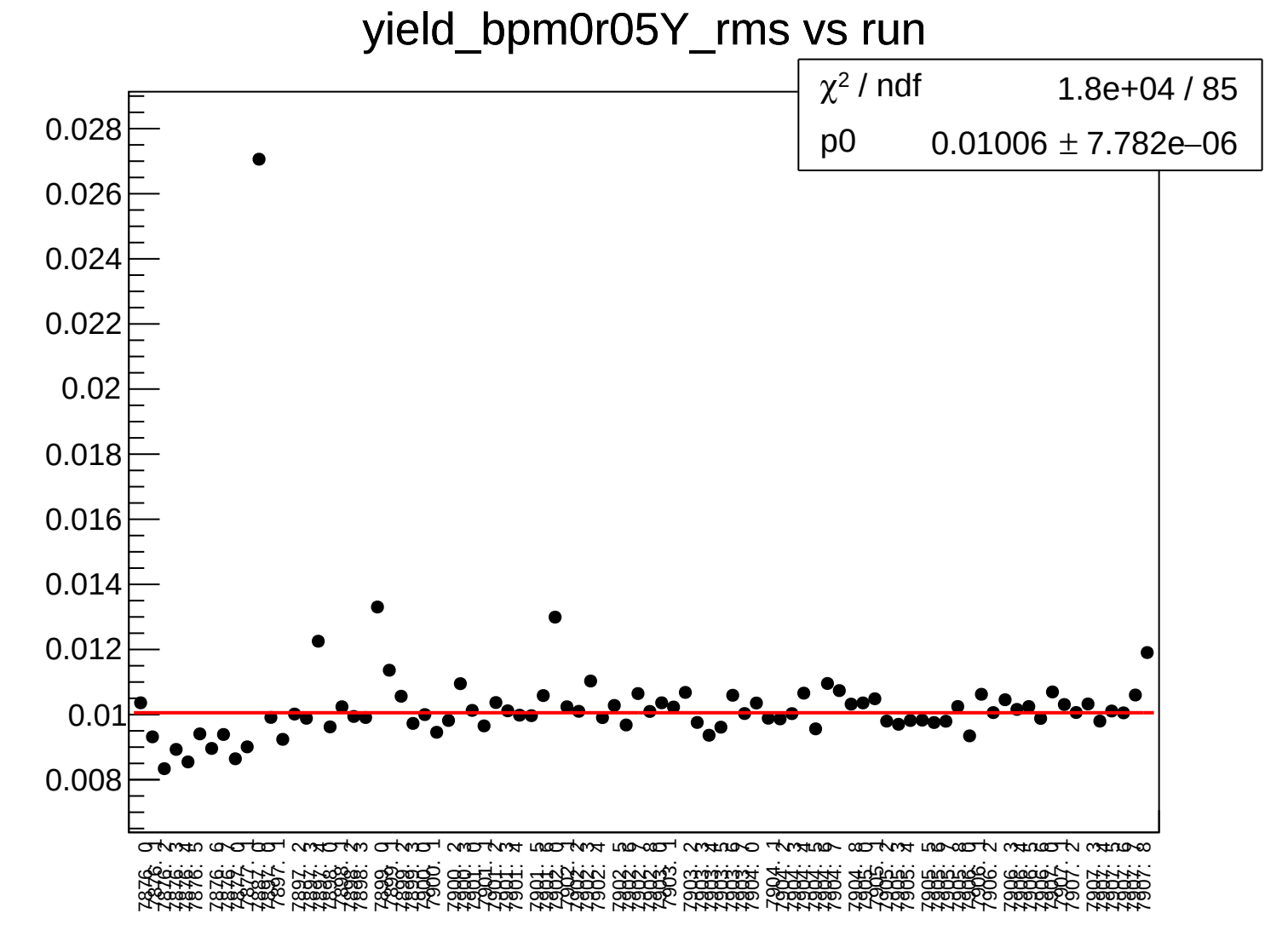

yield_bpm0r05X_mean vs run
χ² / ndf 5.734e+06 / 85
p0 0.3141 ± 0.0001128
0.4
0.2
0
−0.2
−0.4
pull
Entries 86
Mean 4792
Std Dev 0
0
−200
−400
−600
−800

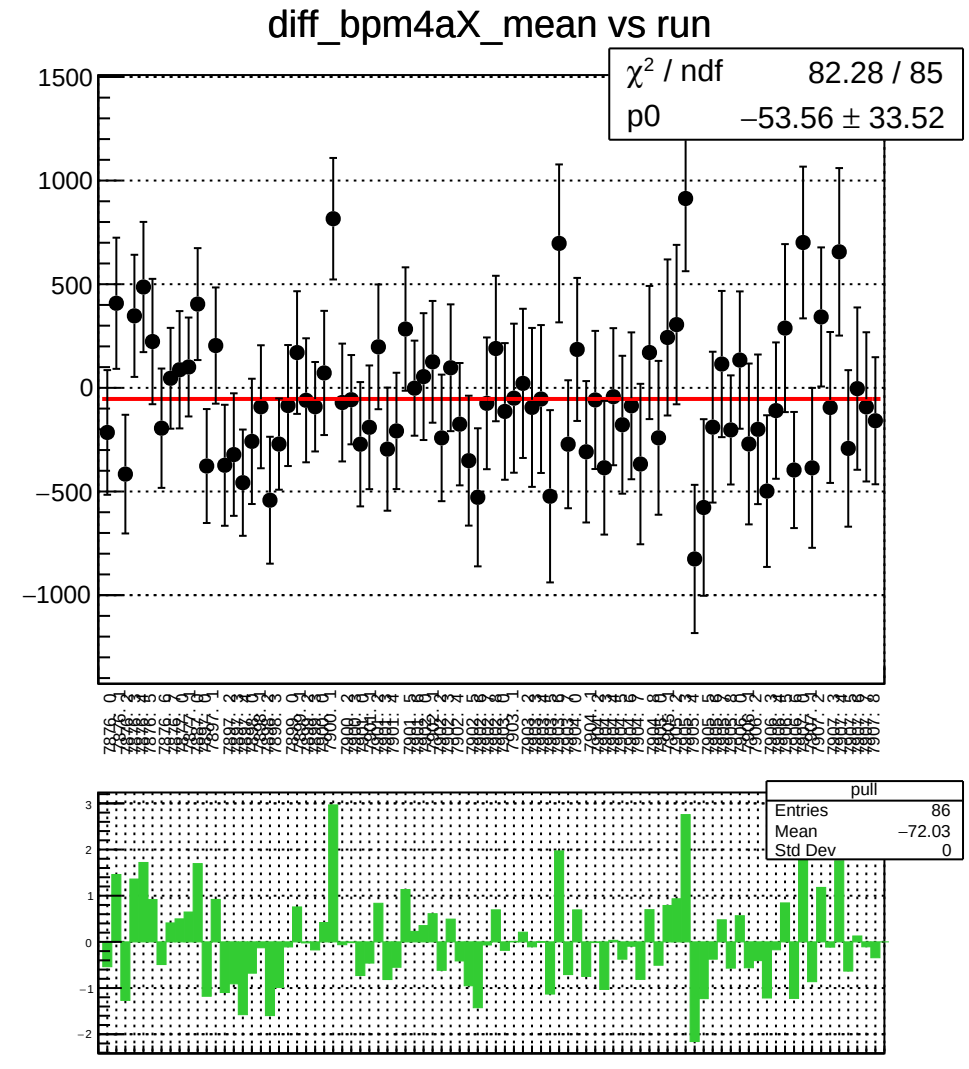

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

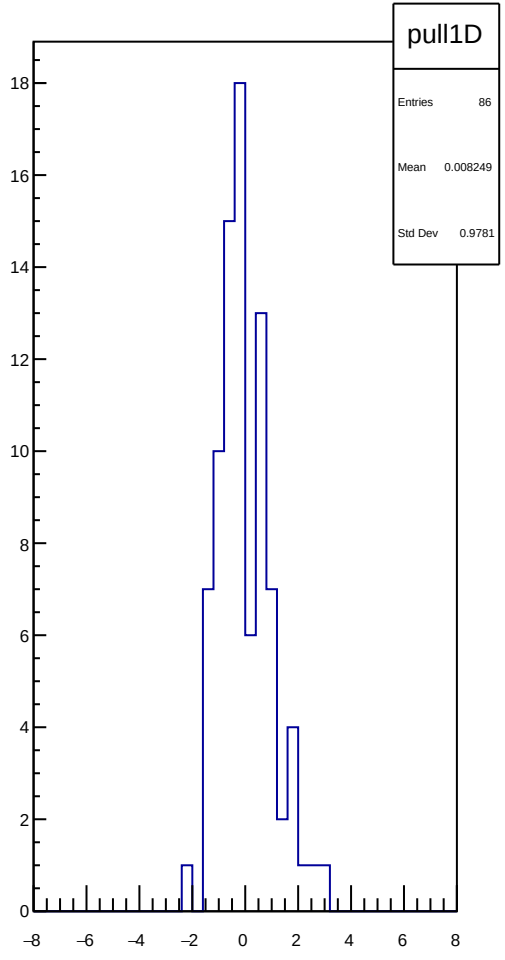

yield_bpm0r05X_rms vs run
χ² / ndf 8019 / 85
p0 0.1033 ± 7.973e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1

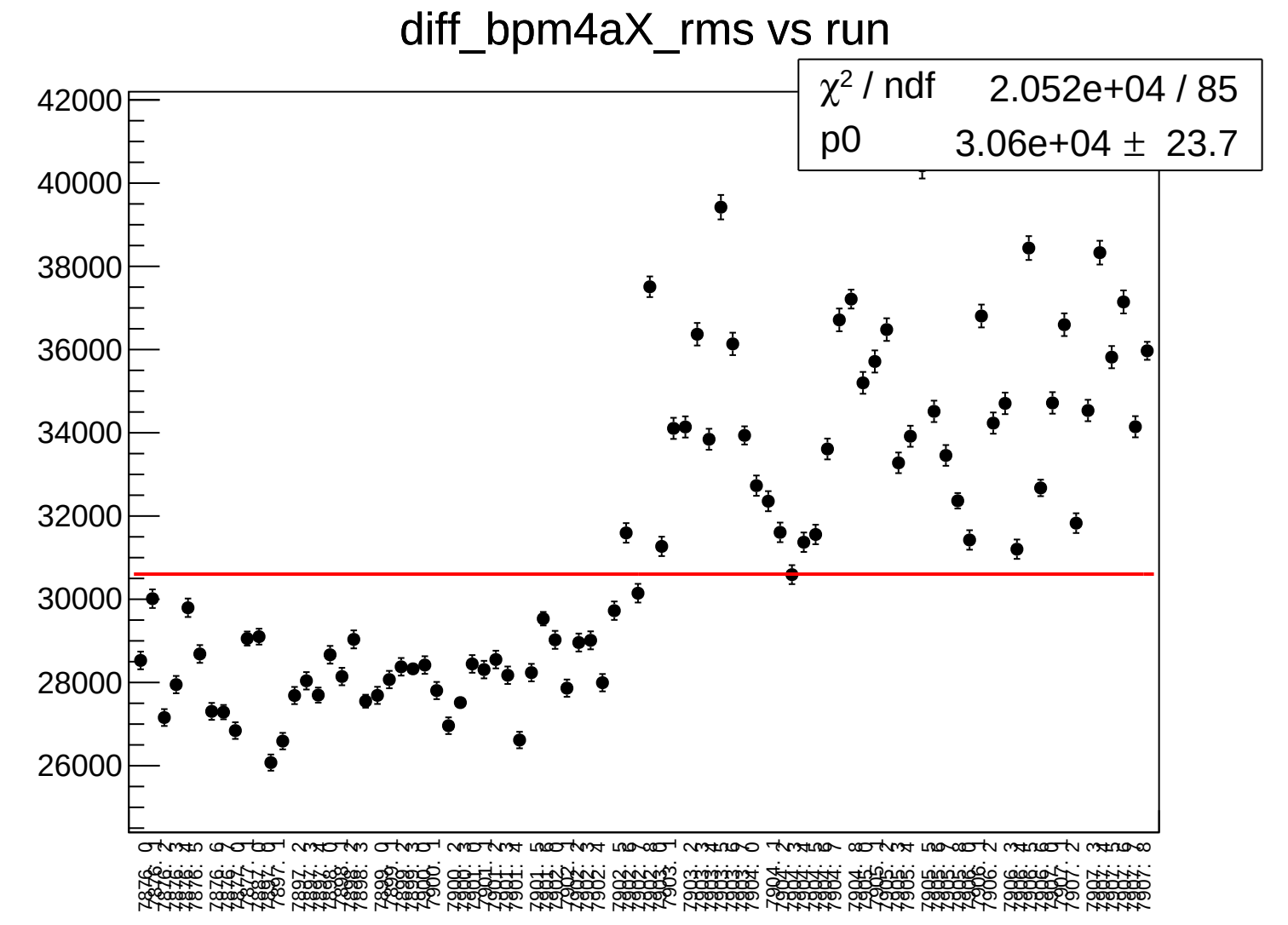

yield_bpm0r05Y_mean vs run
χ² / ndf 1.763e+08 / 85
p0 1.238 ± 1.101e−05
1.3
1.2
1.1
1
0.9
pull
Entries 86
Mean 340.4
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
−5000

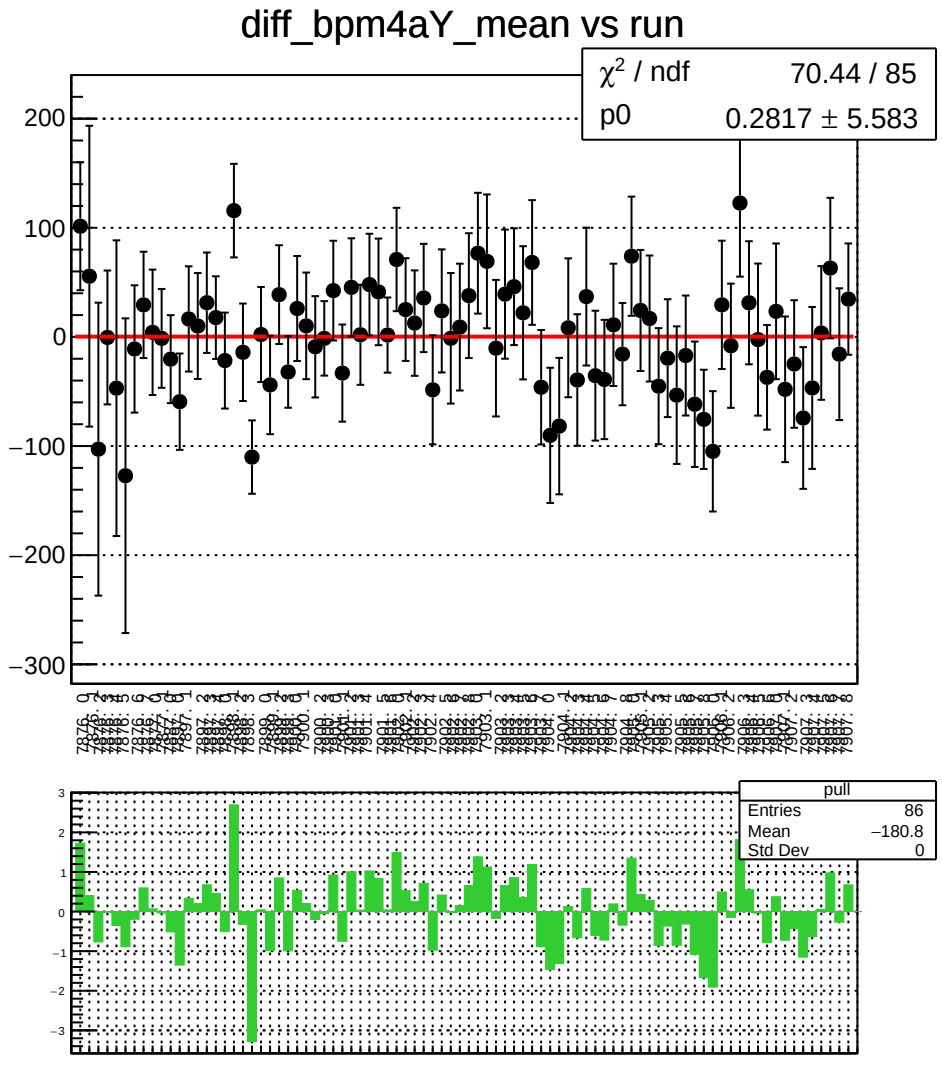

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

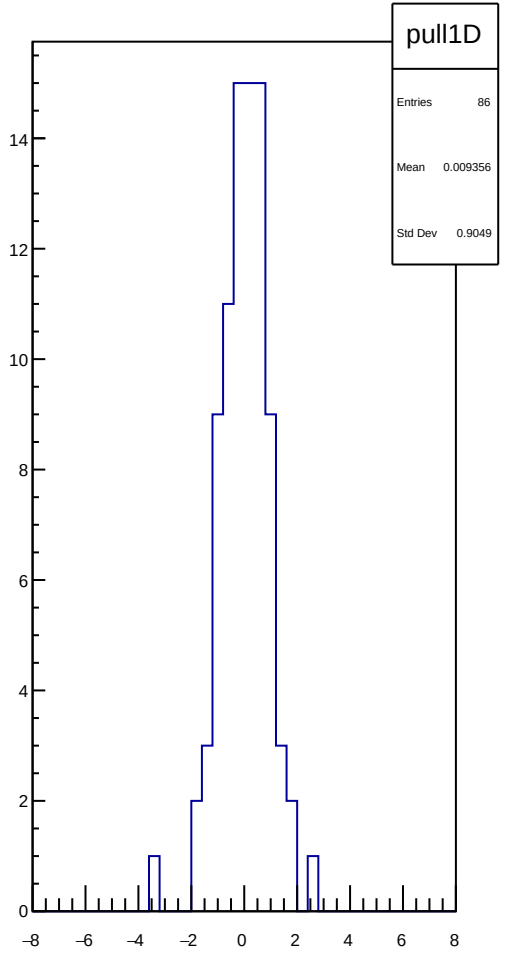

yield_bpm0r05Y_rms vs run
χ² / ndf 1.8e+04 / 85
p0 0.01006 ± 7.782e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

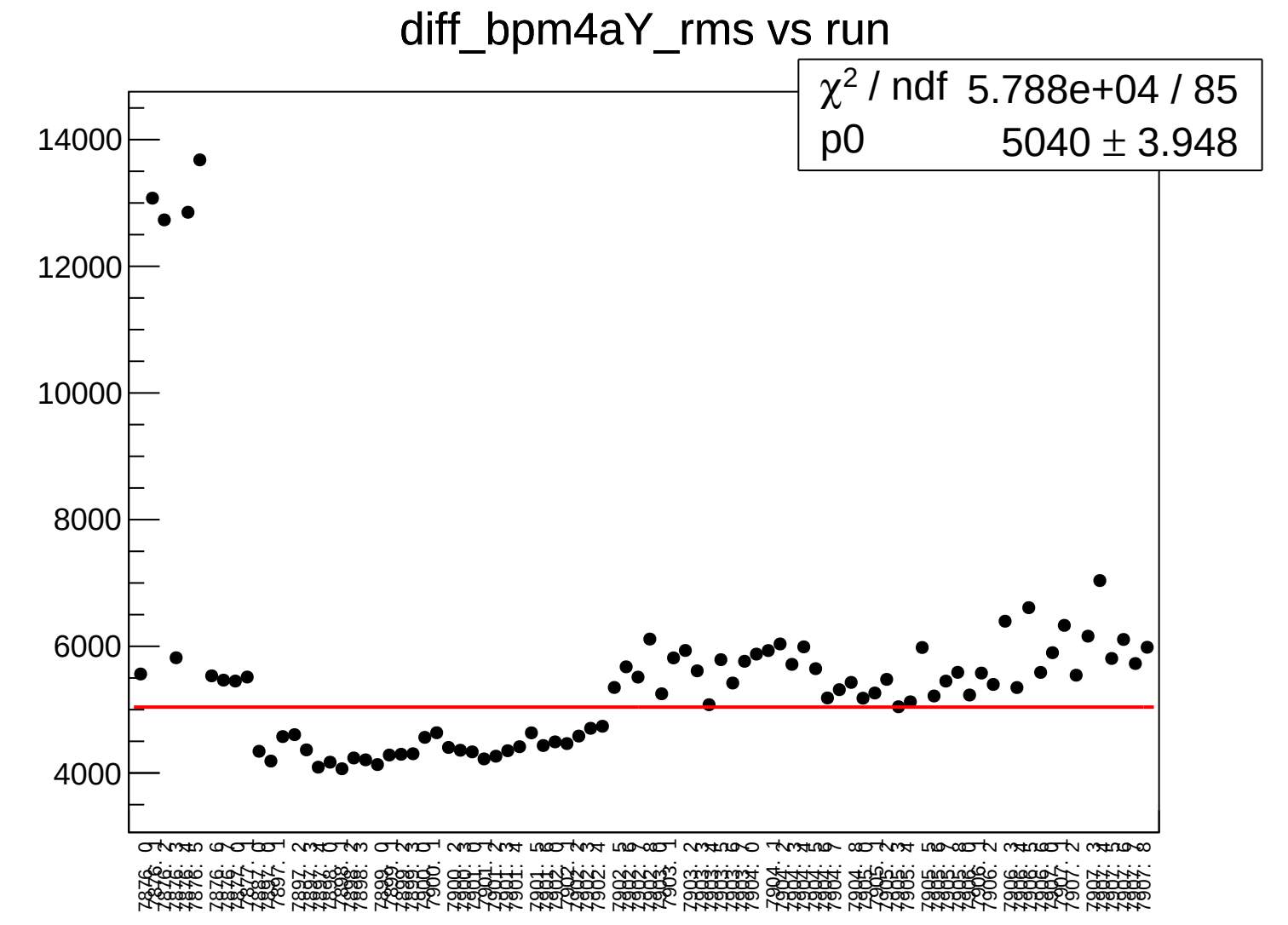

diff_bpm4aX_mean vs run
χ² / ndf 82.28 / 85
p0 −53.56 ± 33.52
1500
1000
500
0
−500
−1000
pull
Entries 86
Mean −72.03
Std Dev 0
3
2
1
0
−1
−2

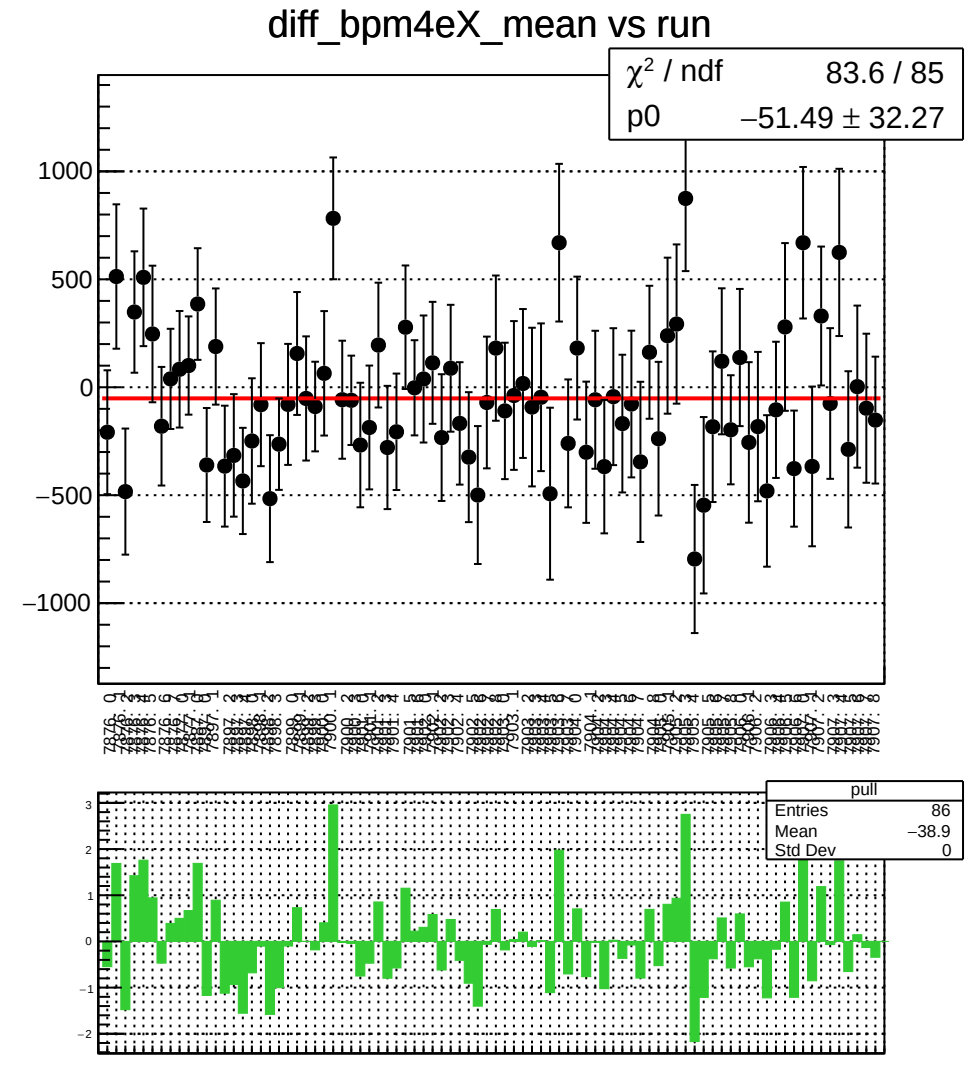

pull1D
Entries 86
Mean 0.008249
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

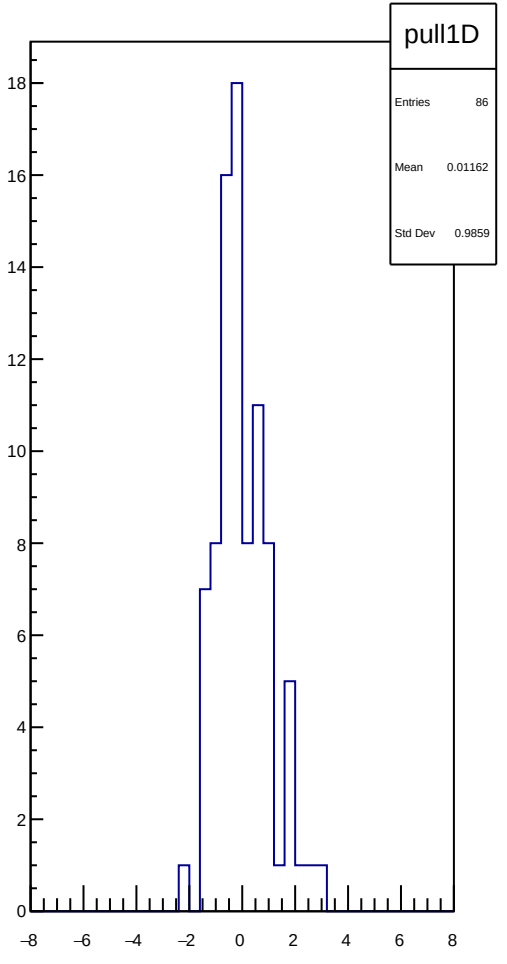

diff_bpm4aX_rms vs run
χ² / ndf 2.052e+04 / 85
p0 3.06e+04 ± 23.7
42000
40000
38000
36000
34000
32000
30000
28000
26000

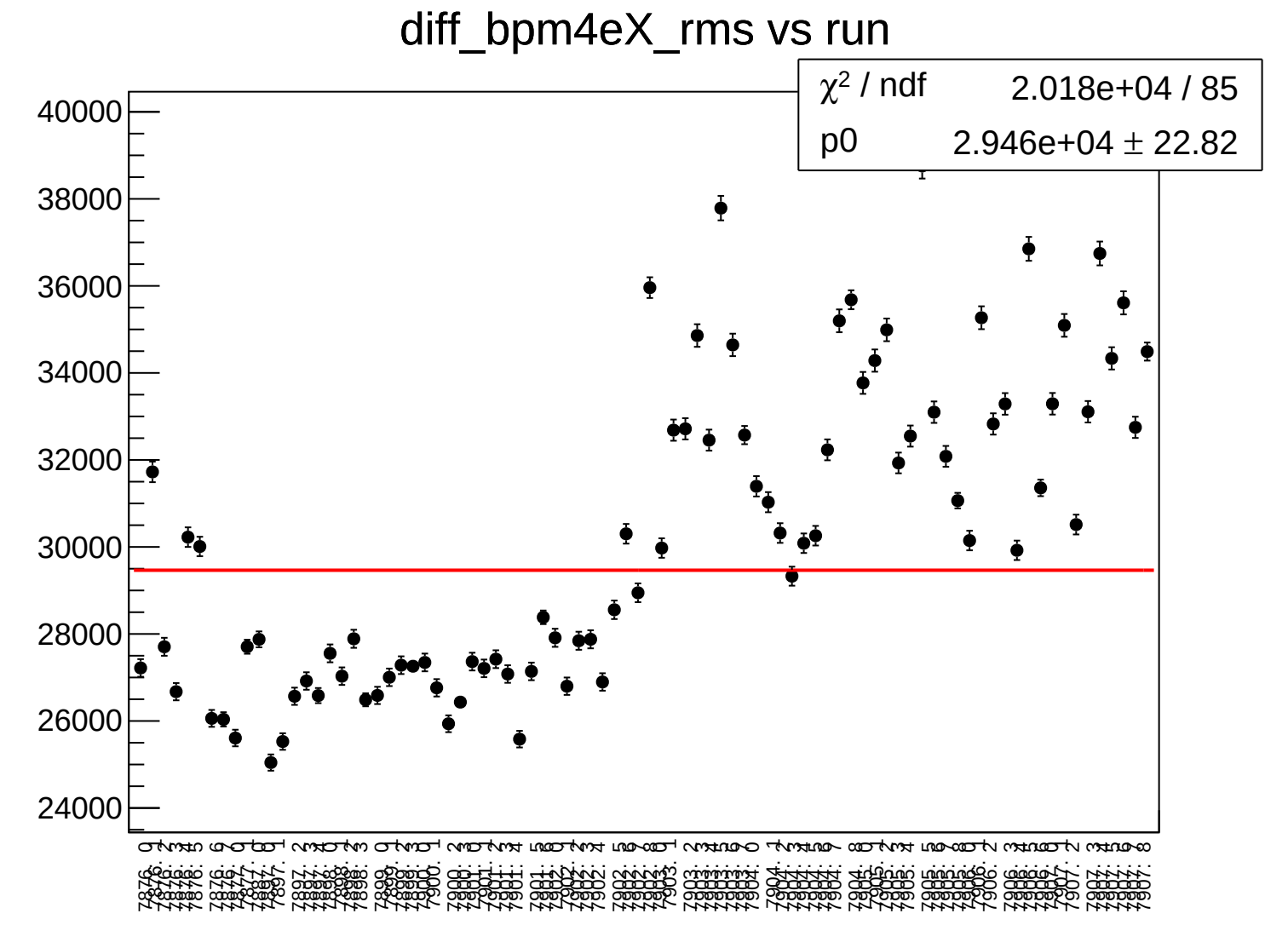

diff_bpm4aY_mean vs run
χ² / ndf 70.44 / 85
p0 0.2817 ± 5.583
200
100
0
−100
−200
−300
pull
Entries 86
Mean −180.8
Std Dev 0
3
2
1
0
−1
−2
−3

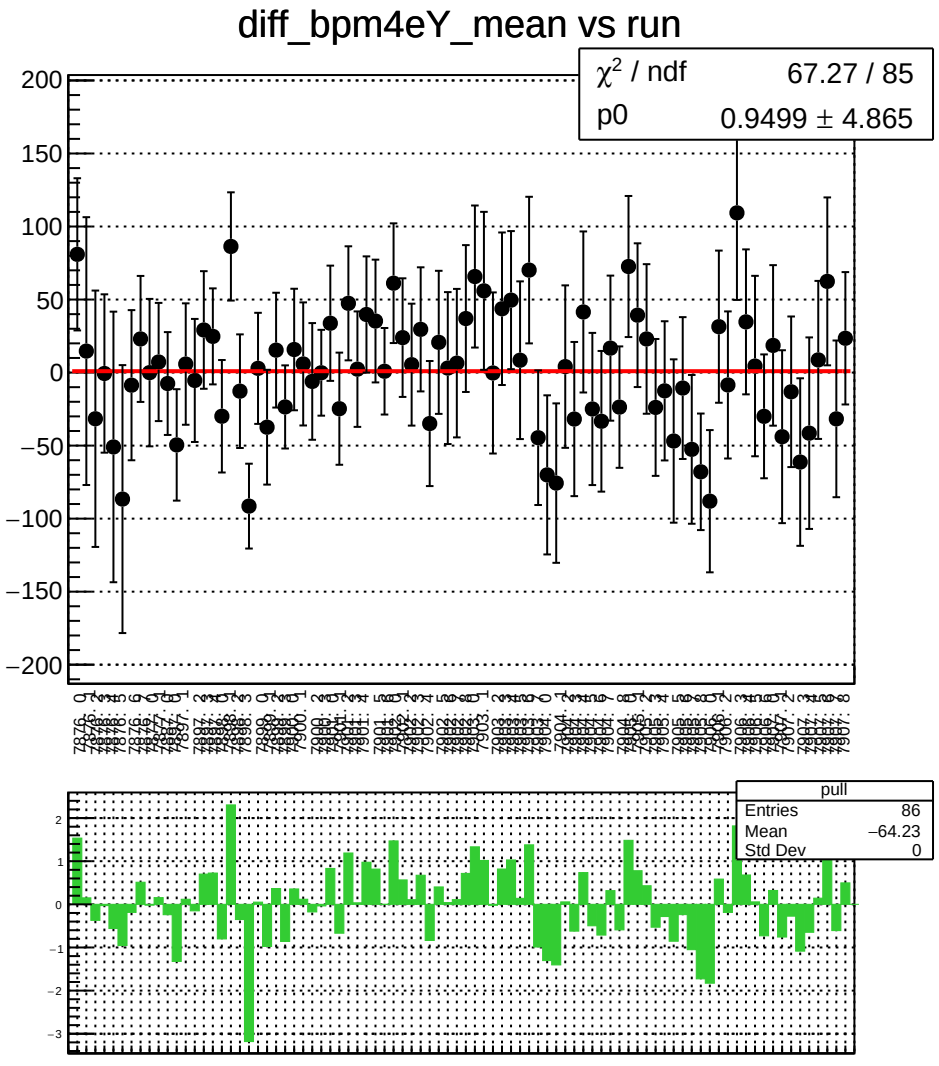

pull1D
Entries 86
Mean 0.009356
Std Dev 0.9049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

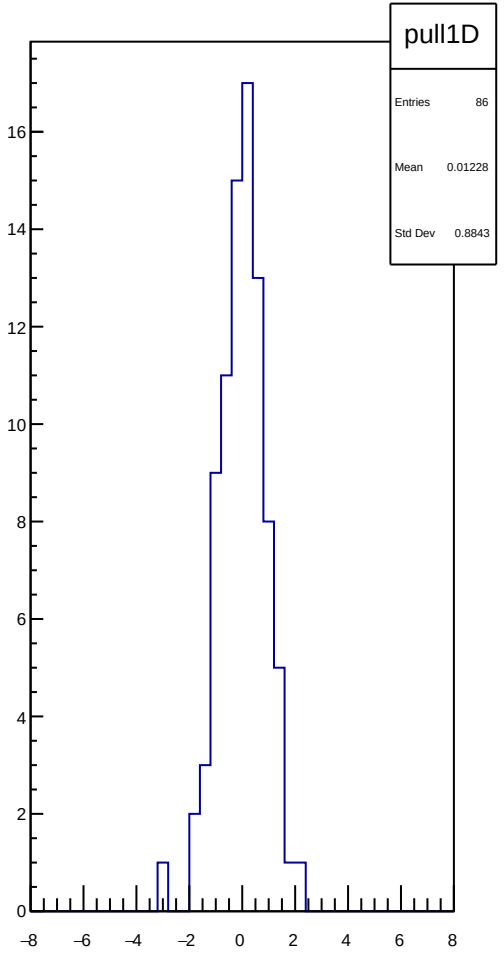

diff_bpm4aY_rms vs run
χ^2 / ndf 5.788e+04 / 85
p0 5040 ± 3.948
14000
12000
10000
8000
6000
4000

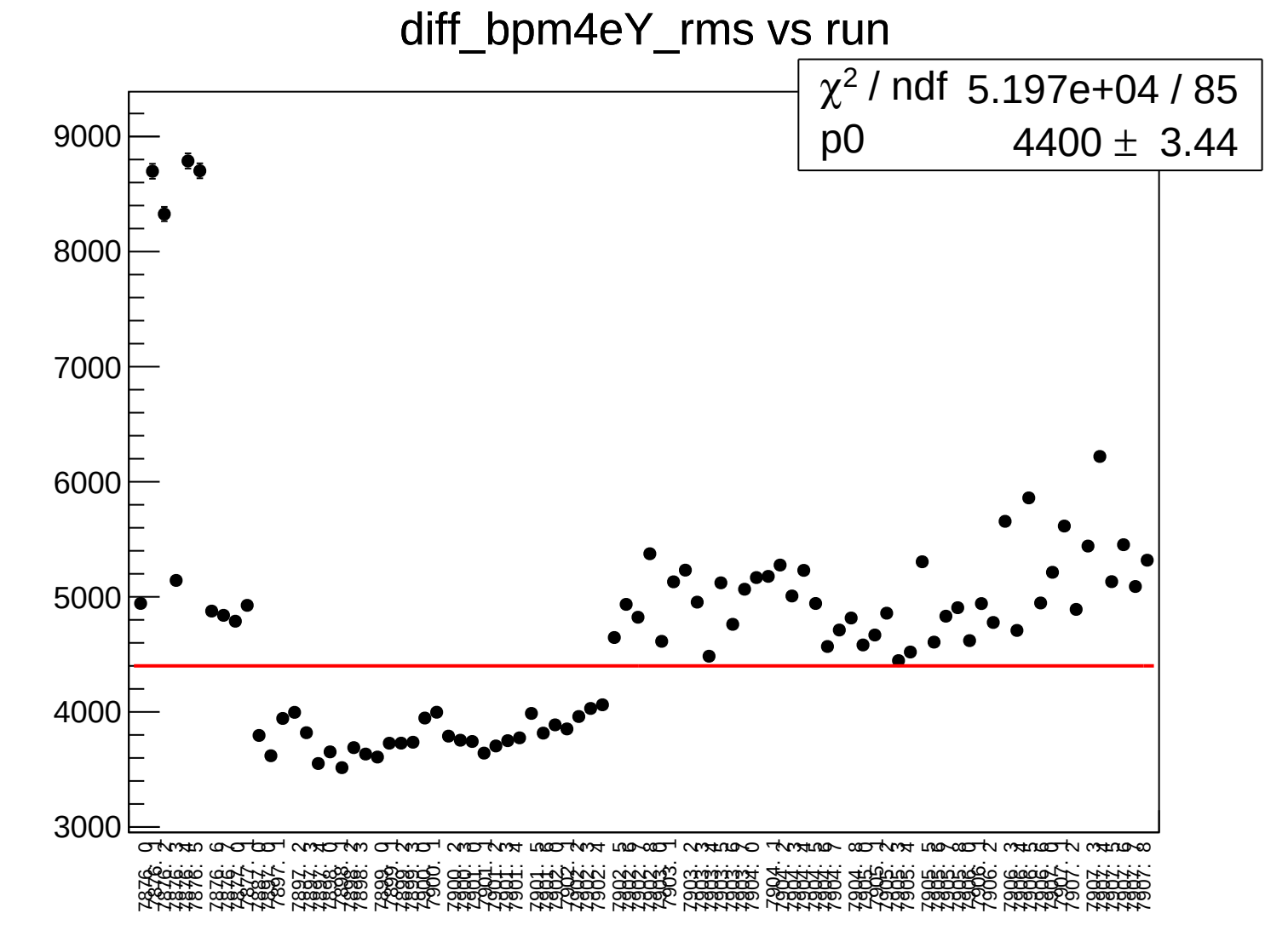

diff_bpm4eX_mean vs run
χ² / ndf 83.6 / 85
p0 −51.49 ± 32.27
1000
500
0
−500
−1000
pull
Entries 86
Mean −38.9
Std Dev 0
3
2
1
0
−1
−2

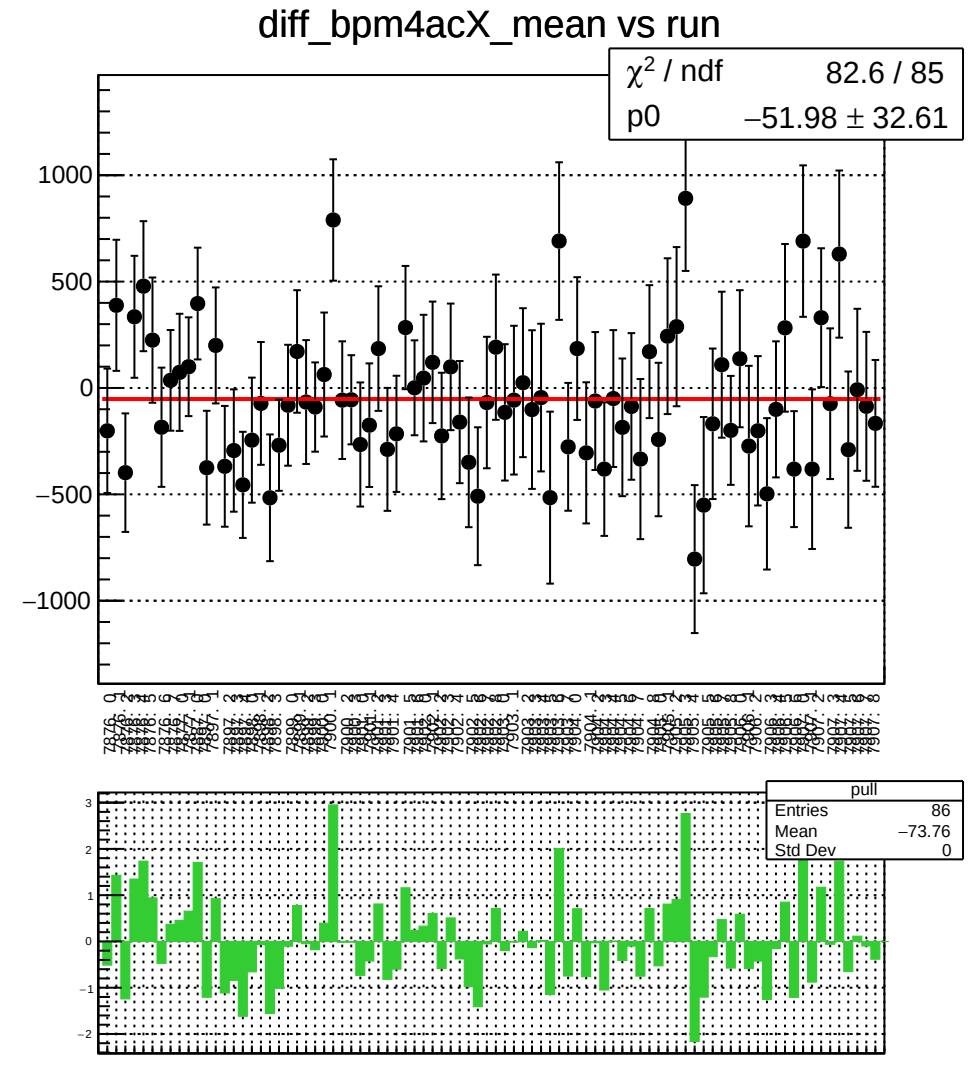

pull1D
Entries 86
Mean 0.01162
Std Dev 0.9859
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

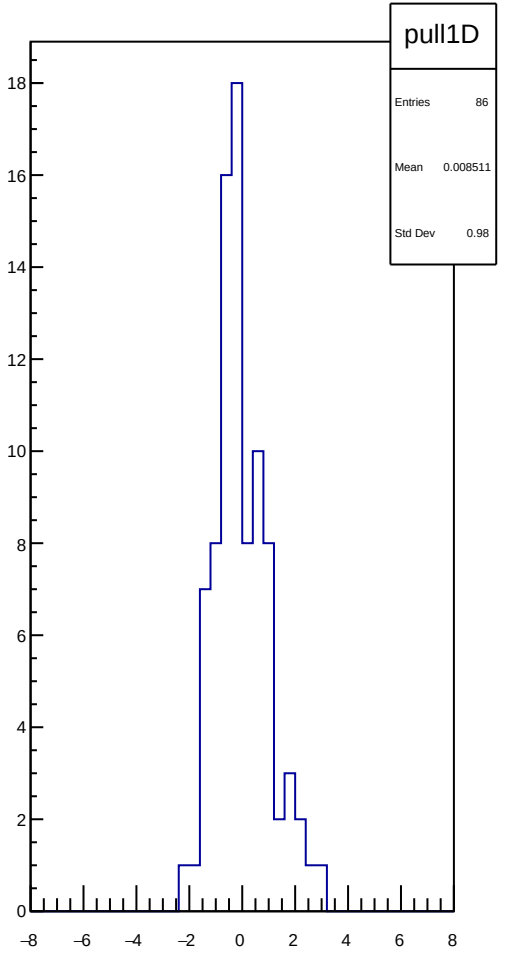

diff_bpm4eX_rms vs run
χ² / ndf 2.018e+04 / 85
p0 2.946e+04 ± 22.82
40000
38000
36000
34000
32000
30000
28000
26000
24000

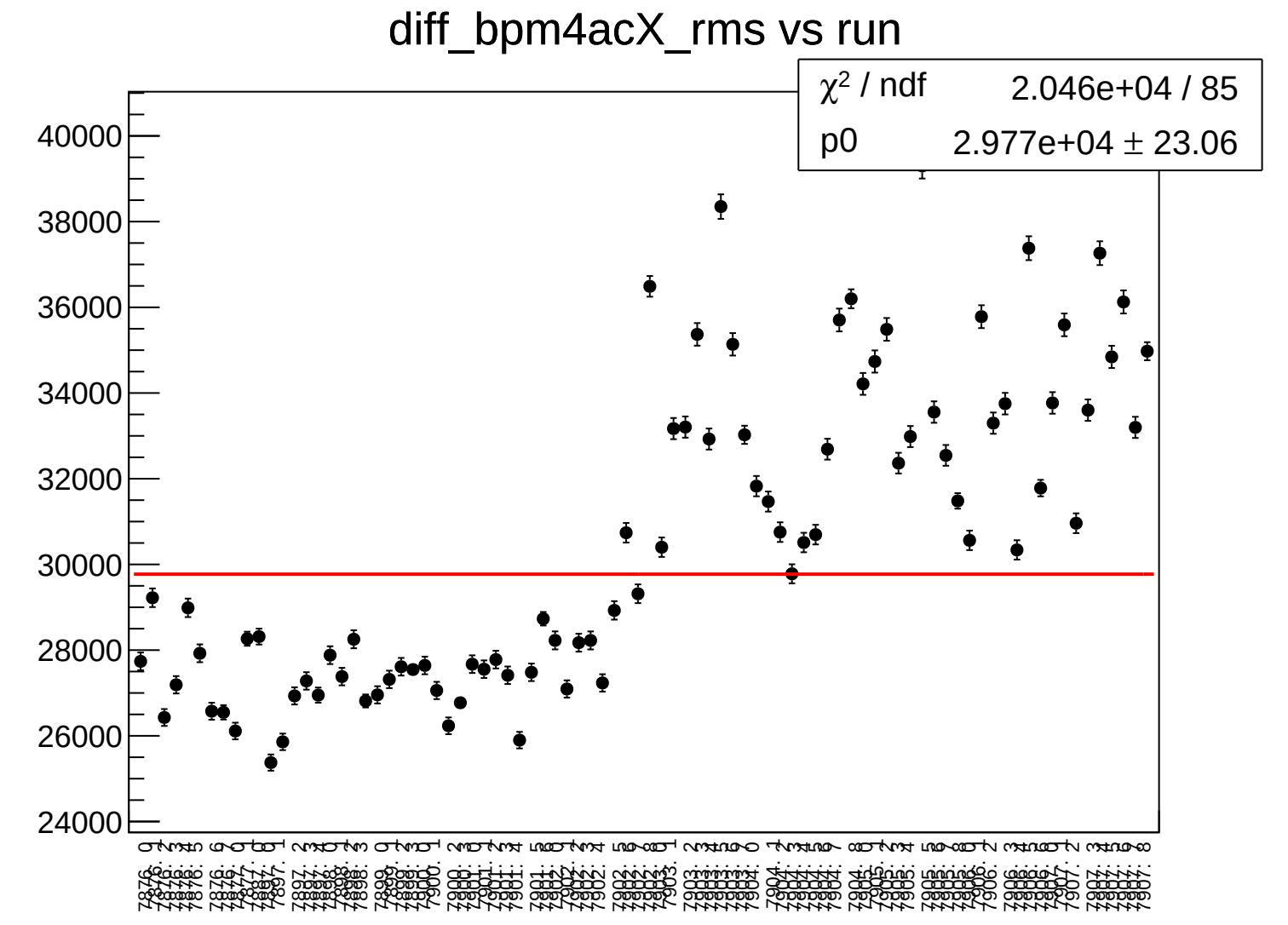

diff_bpm4eY_mean vs run
χ² / ndf 67.27 / 85
p0 0.9499 ± 4.865
pull
Entries 86
Mean −64.23
Std Dev 0

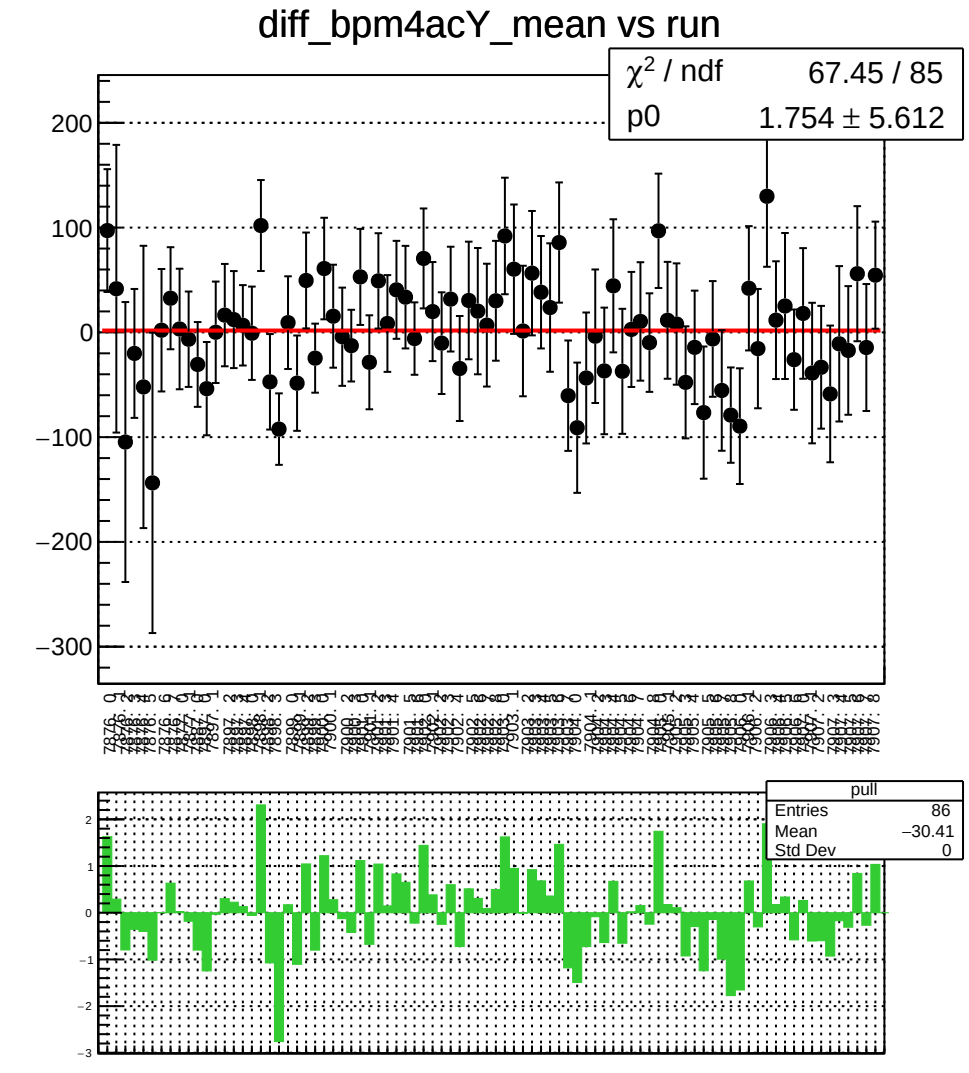

pull1D
Entries 86
Mean 0.01228
Std Dev 0.8843

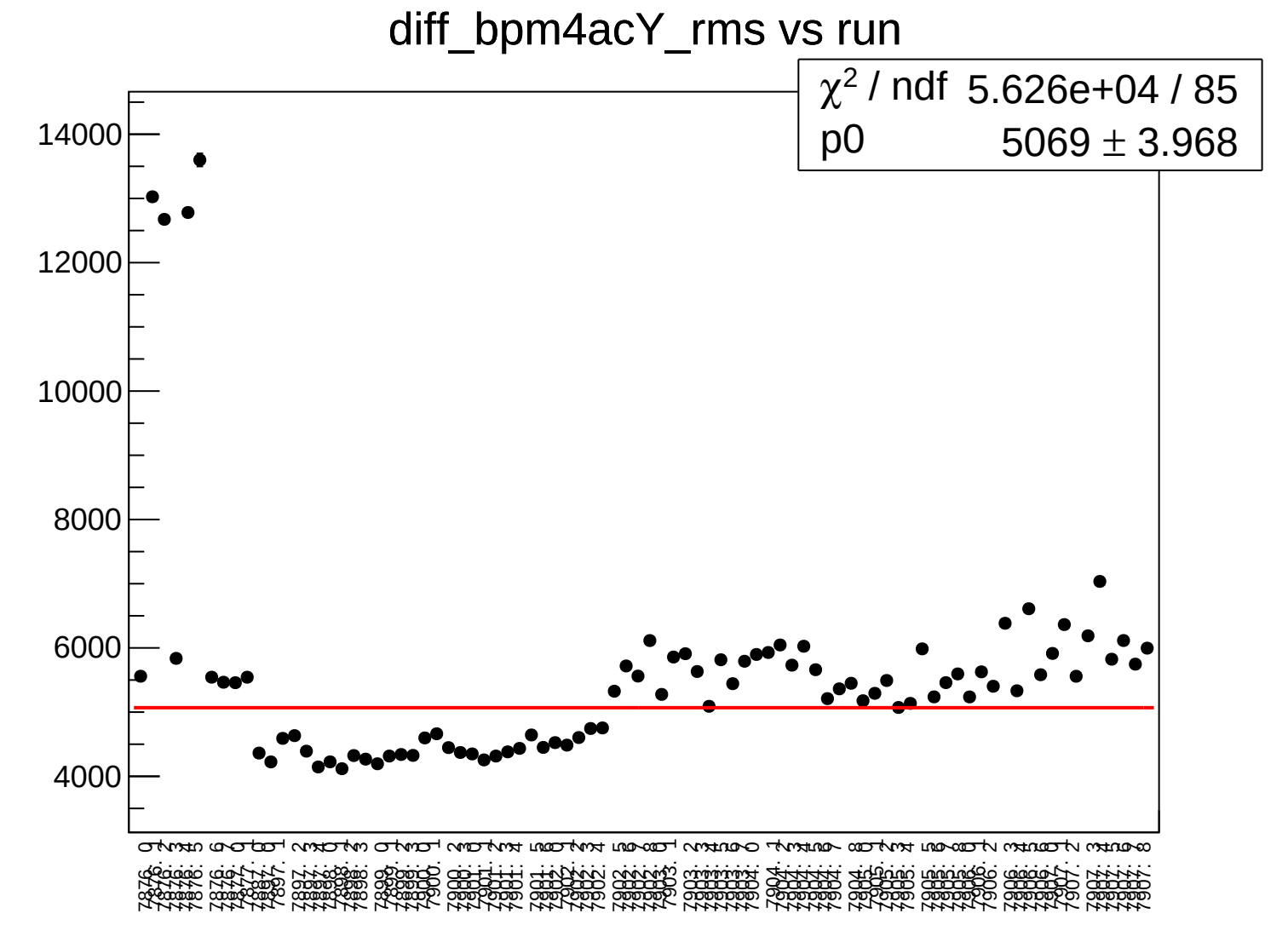

diff_bpm4eY_rms vs run
χ^2 / ndf 5.197e+04 / 85
p0 4400 ± 3.44
9000
8000
7000
6000
5000
4000
3000

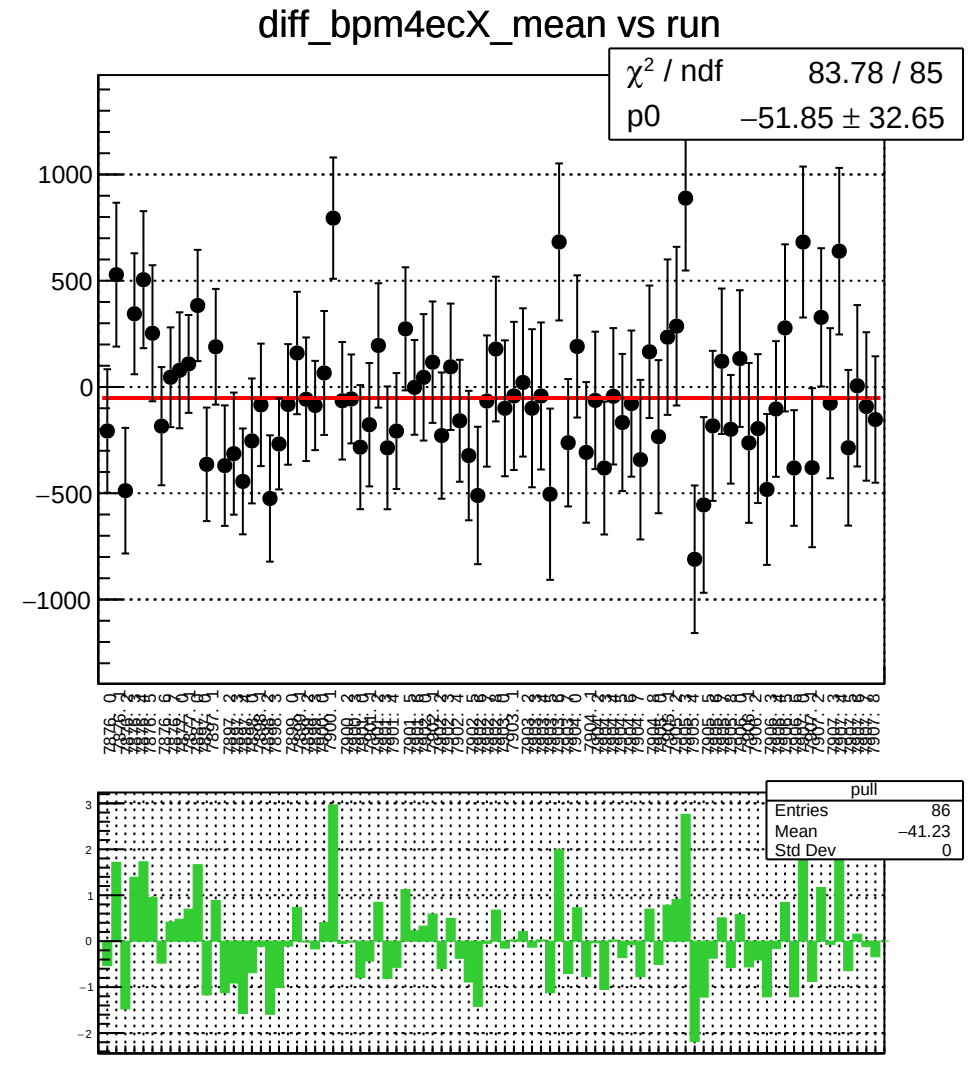

diff_bpm4acX_mean vs run
χ² / ndf 82.6 / 85
p0 −51.98 ± 32.61
1000
500
0
−500
−1000
pull
Entries 86
Mean −73.76
Std Dev 0
3
2
1
0
−1
−2

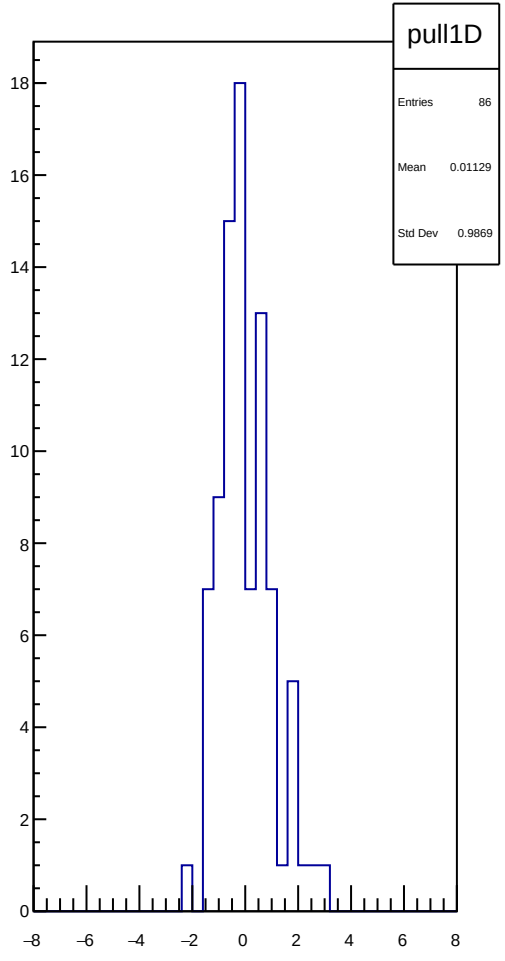

pull1D
Entries 86
Mean 0.008511
Std Dev 0.98
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

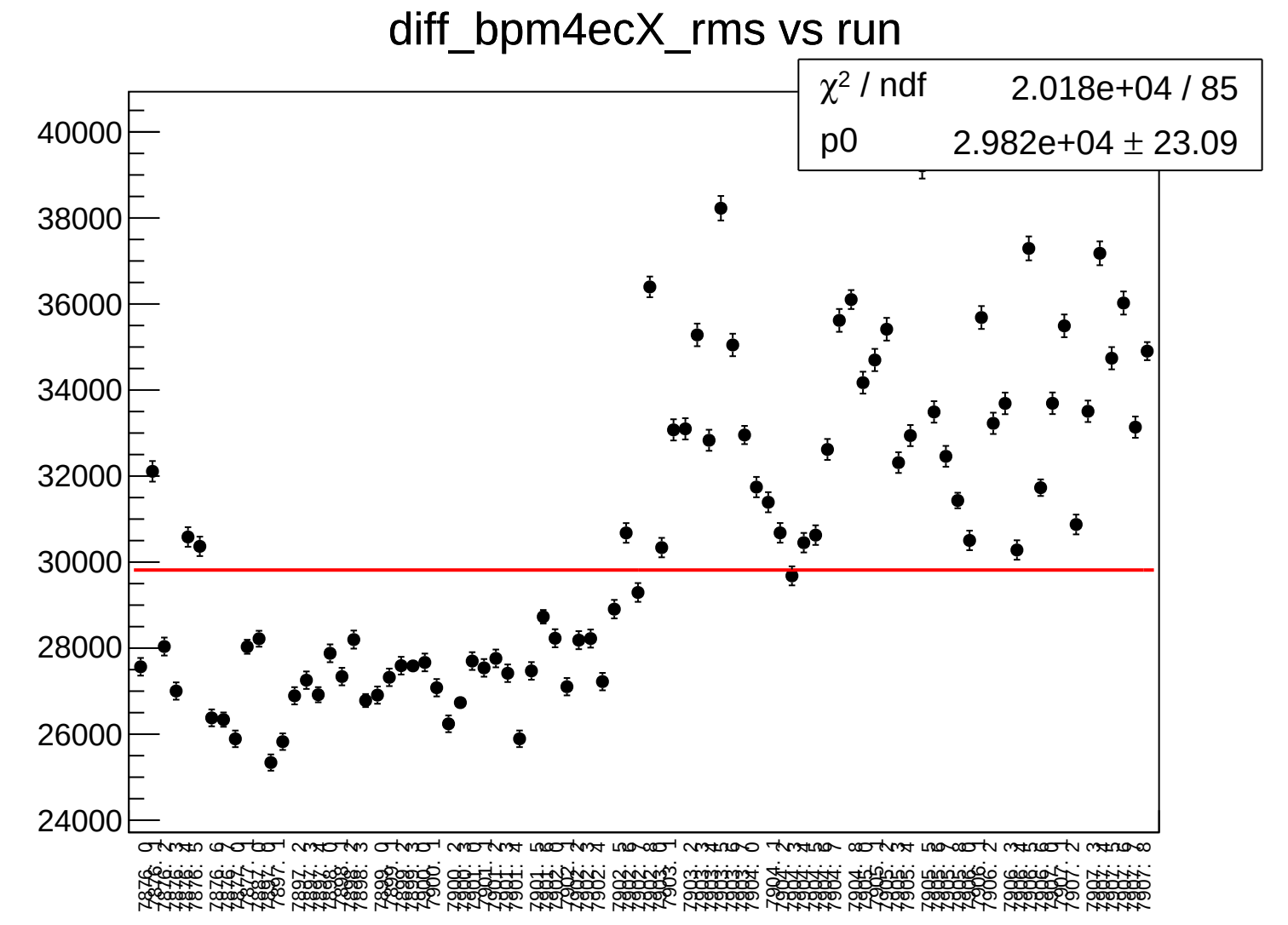

diff_bpm4acX_rms vs run
χ² / ndf 2.046e+04 / 85
p0 2.977e+04 ± 23.06
40000
38000
36000
34000
32000
30000
28000
26000
24000

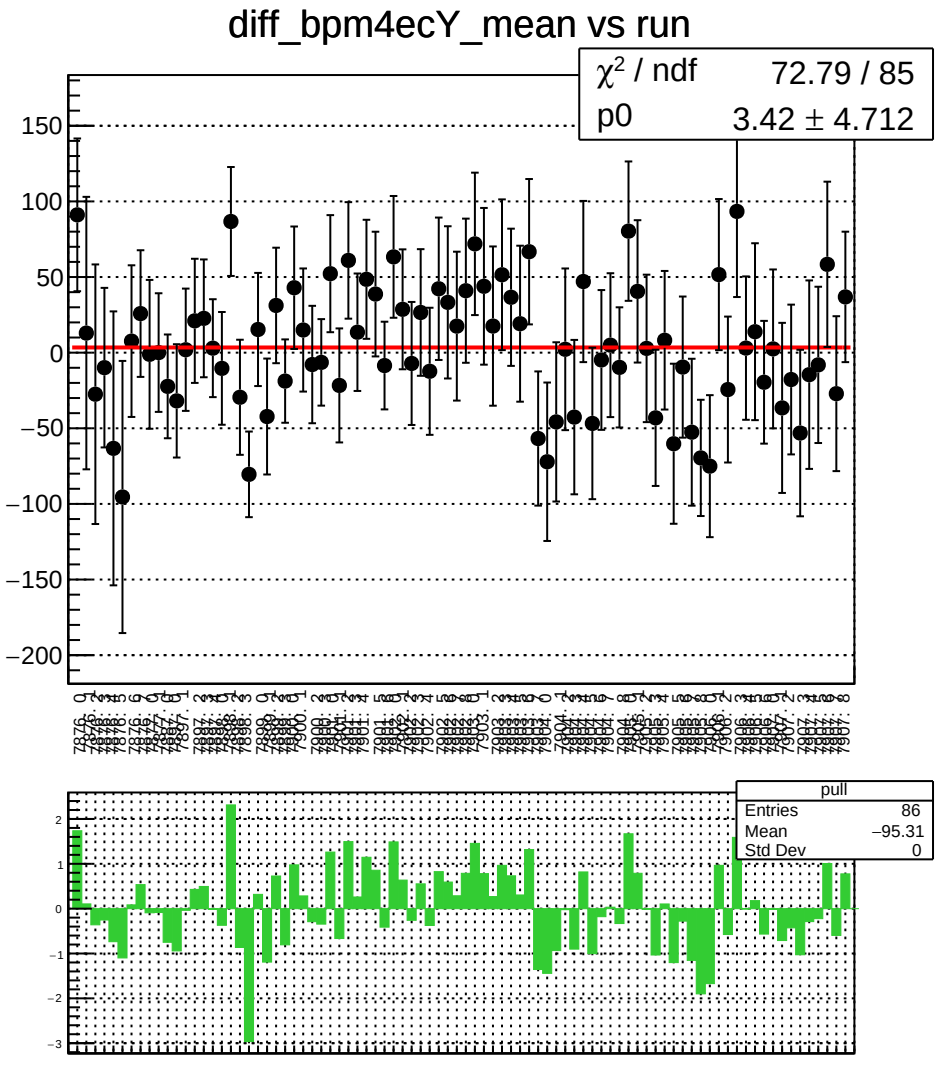

diff_bpm4acY_mean vs run
χ² / ndf 67.45 / 85
p0 1.754 ± 5.612
pull
Entries 86
Mean −30.41
Std Dev 0
pull1D
Entries 86
Mean 0.01303
Std Dev 0.8855

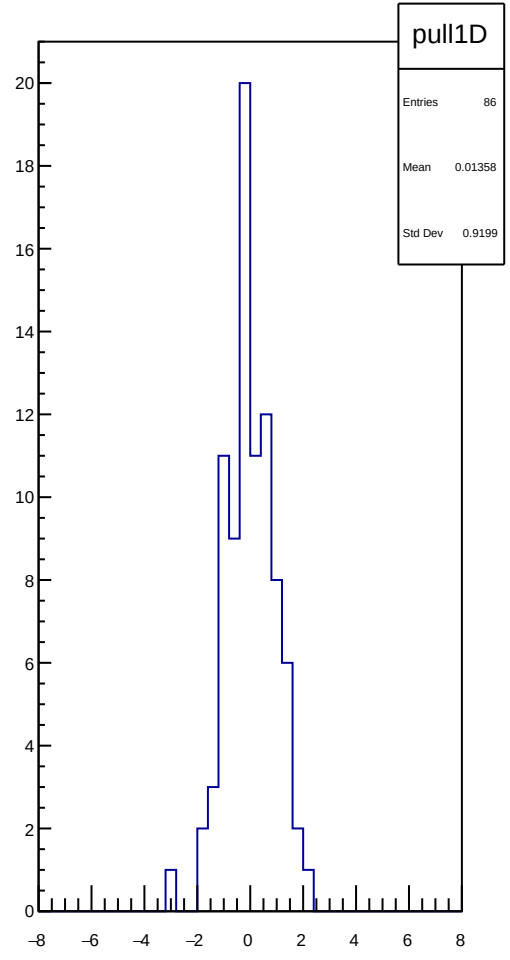

diff_bpm4acY_rms vs run
χ² / ndf 5.626e+04 / 85
p0 5069 ± 3.968
14000
12000
10000
8000
6000
4000

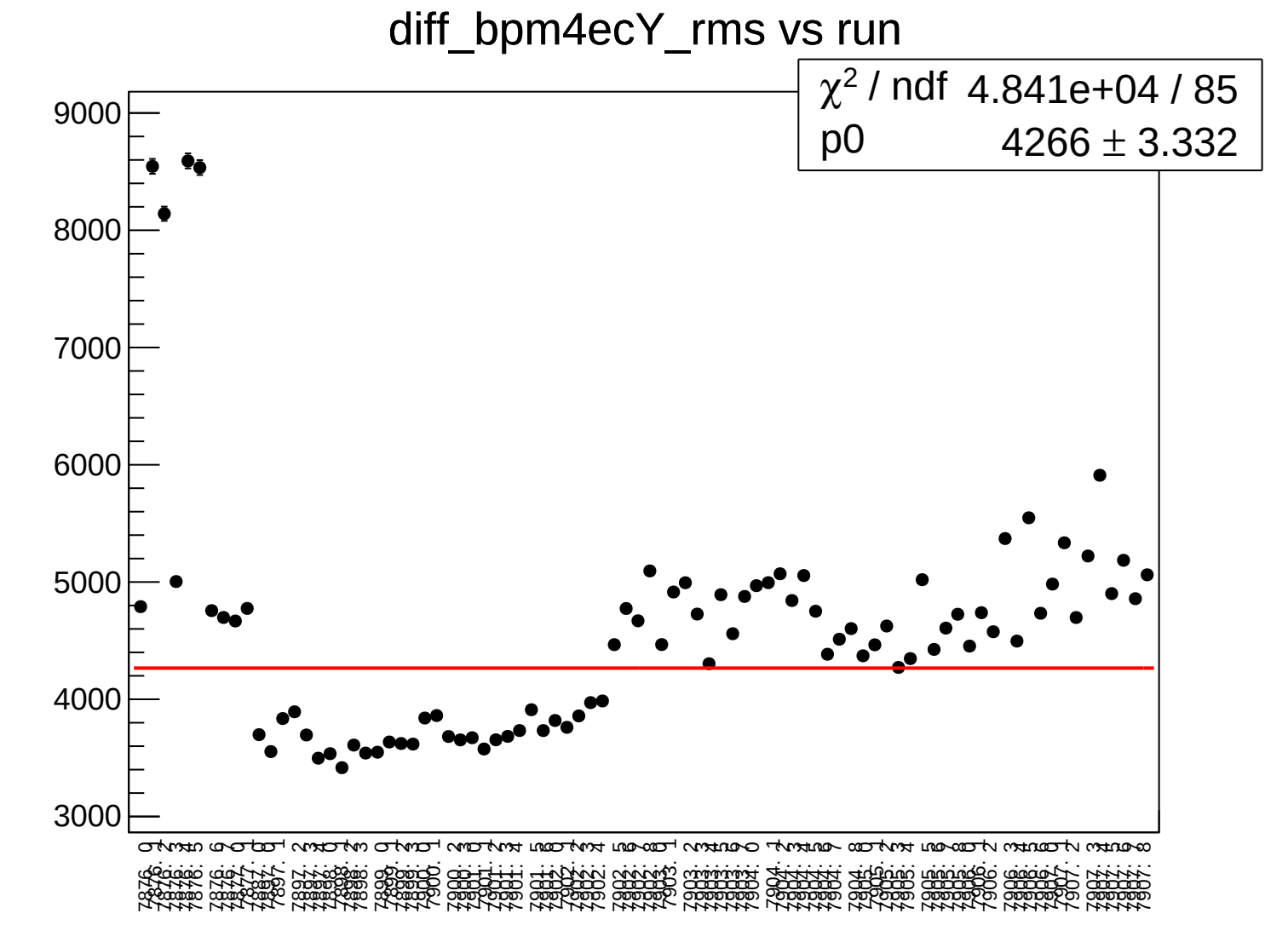

diff_bpm4ecX_mean vs run
χ² / ndf 83.78 / 85
p0 −51.85 ± 32.65
1000
500
0
−500
−1000
pull
Entries 86
Mean −41.23
Std Dev 0
3
2
1
0
−1
−2

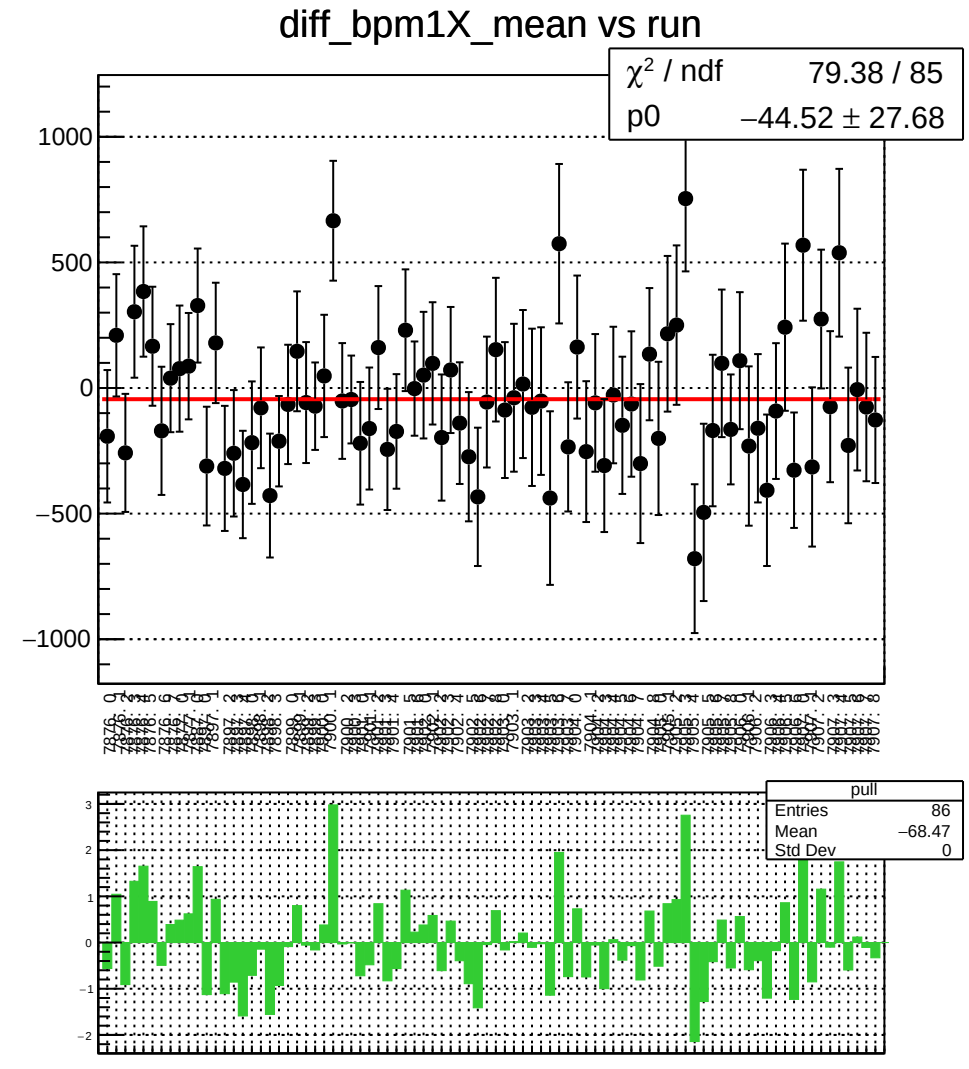

pull1D
Entries 86
Mean 0.01129
Std Dev 0.9869
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

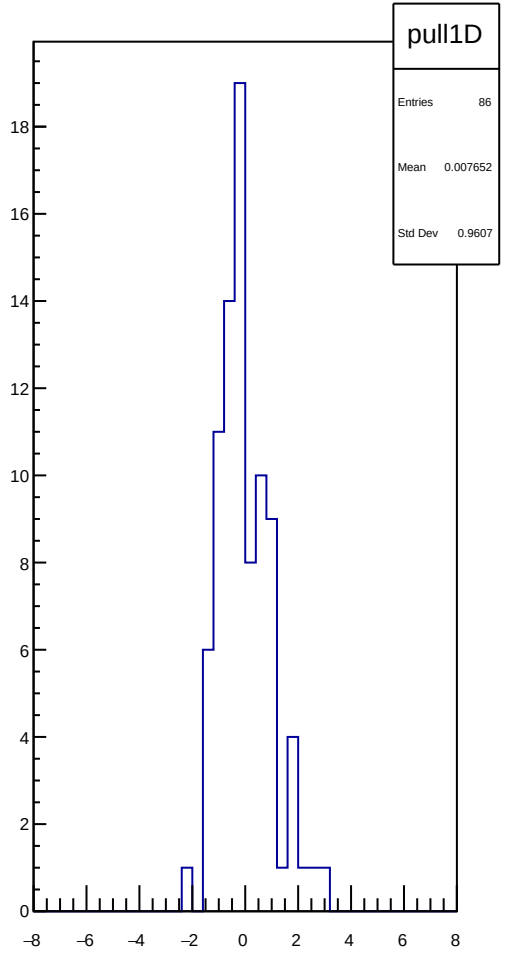

diff_bpm4ecX_rms vs run
χ² / ndf 2.018e+04 / 85
p0 2.982e+04 ± 23.09
40000
38000
36000
34000
32000
30000
28000
26000
24000

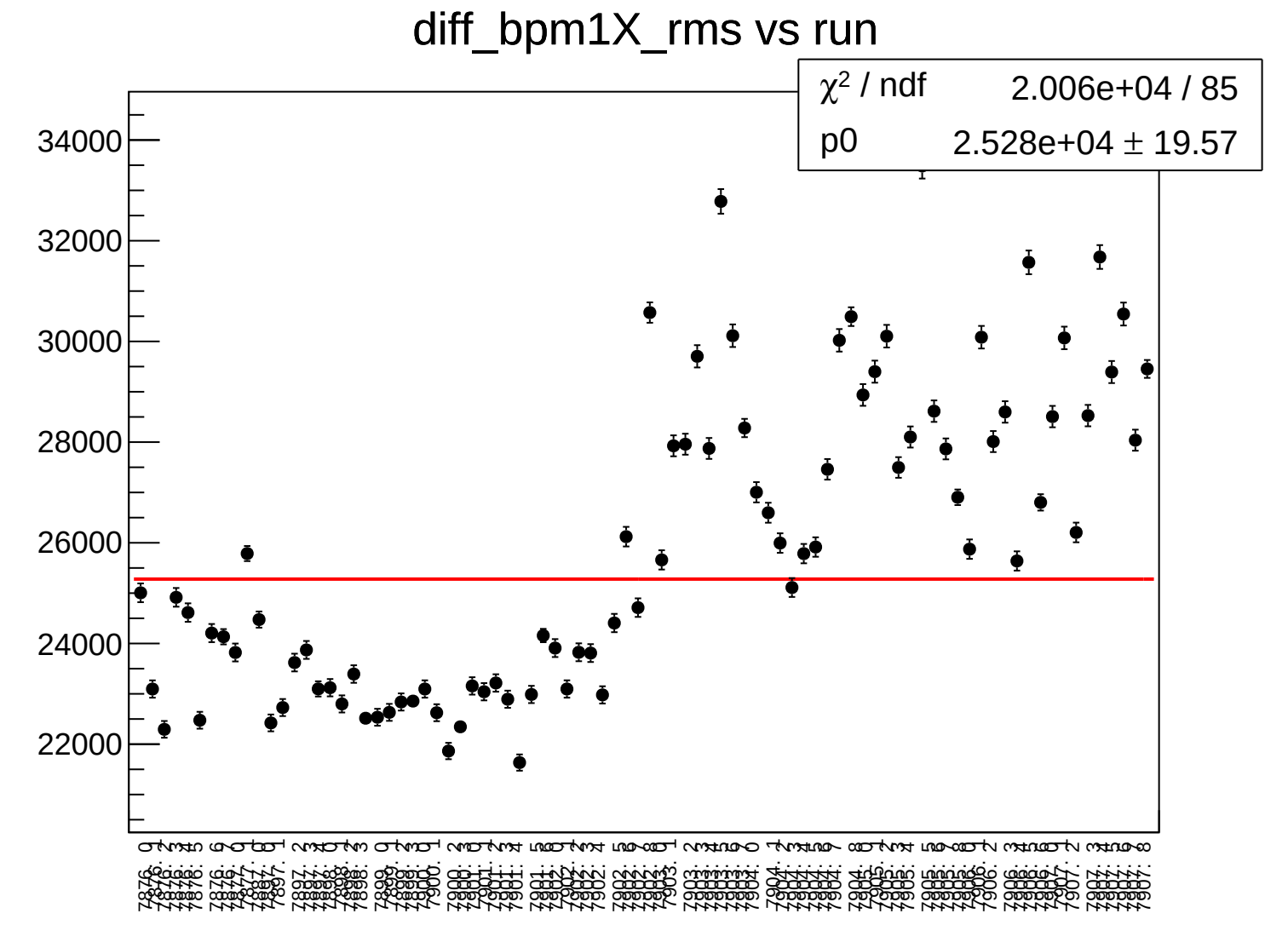

diff_bpm4ecY_mean vs run
χ² / ndf 72.79 / 85
p0 3.42 ± 4.712
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −95.31
Std Dev 0
2
1
0
−1
−2
−3

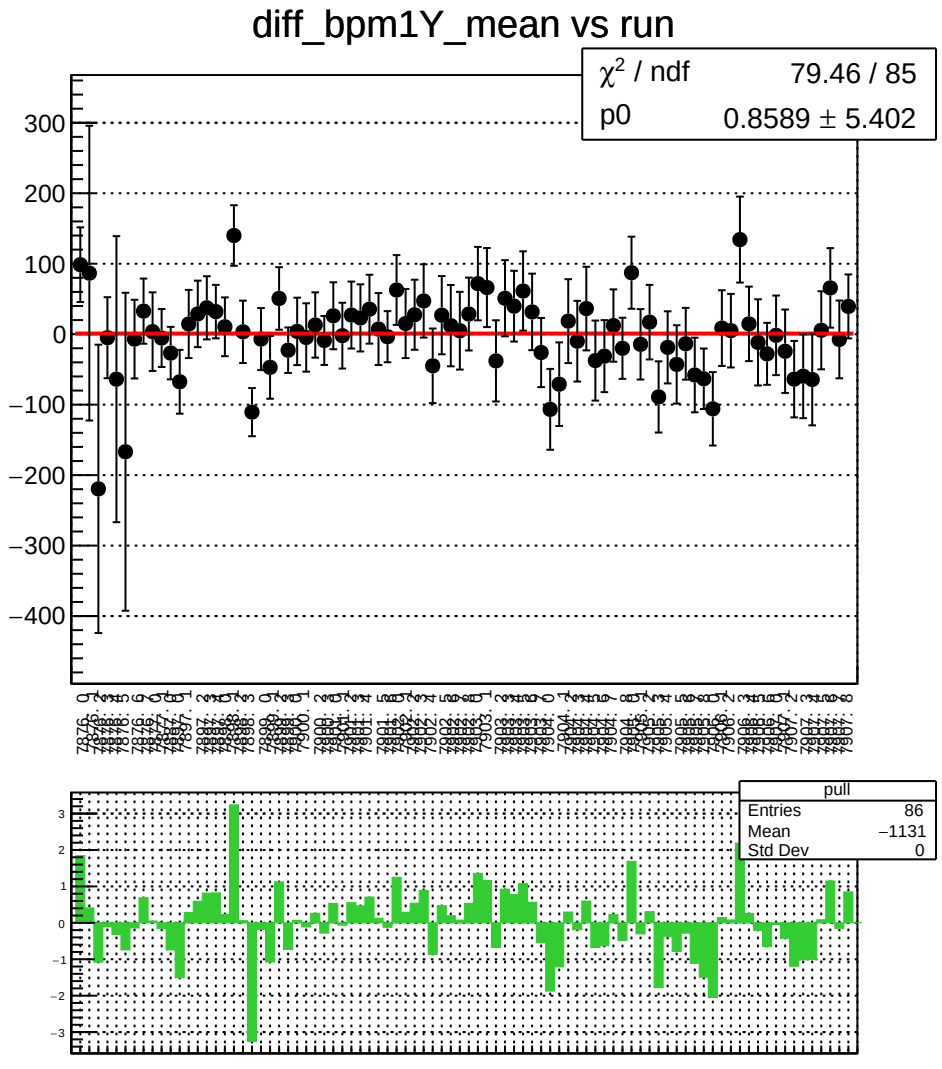

pull1D
Entries 86
Mean 0.01358
Std Dev 0.9199
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

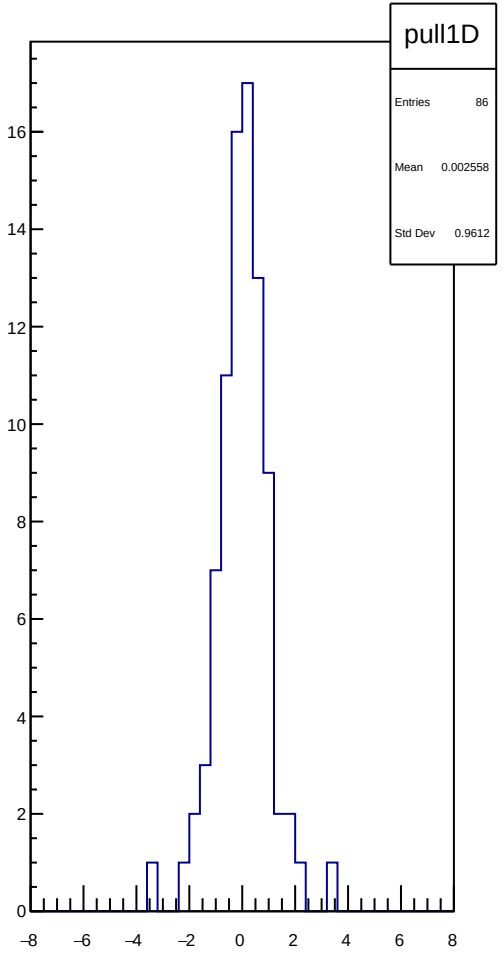

diff_bpm4ecY_rms vs run
χ^2 / ndf 4.841e+04 / 85
p0 4266 ± 3.332
9000
8000
7000
6000
5000
4000
3000

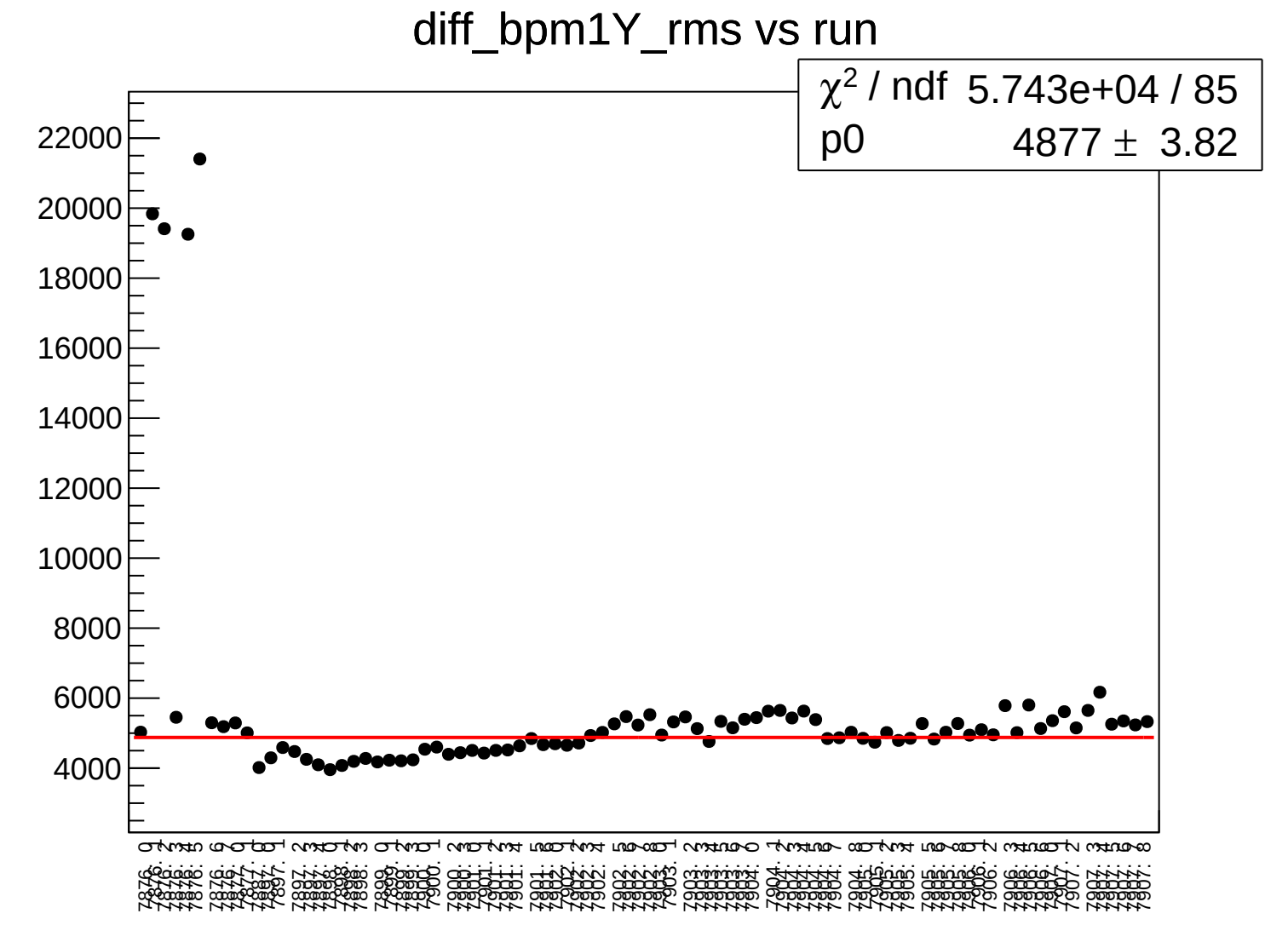

diff_bpm1X_mean vs run
χ² / ndf 79.38 / 85
p0 −44.52 ± 27.68
1000
500
0
−500
−1000
pull
Entries 86
Mean −68.47
Std Dev 0
3
2
1
0
−1
−2

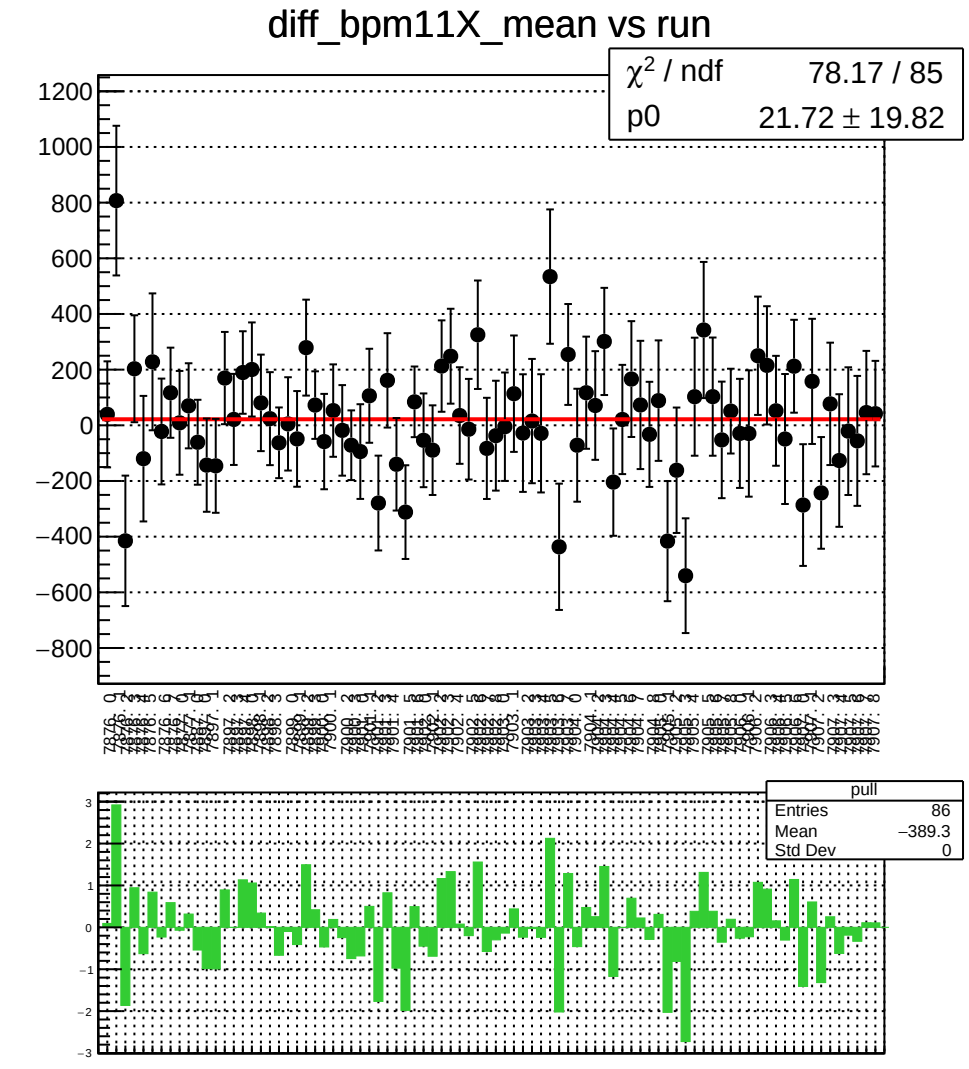

pull1D
Entries 86
Mean 0.007652
Std Dev 0.9607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

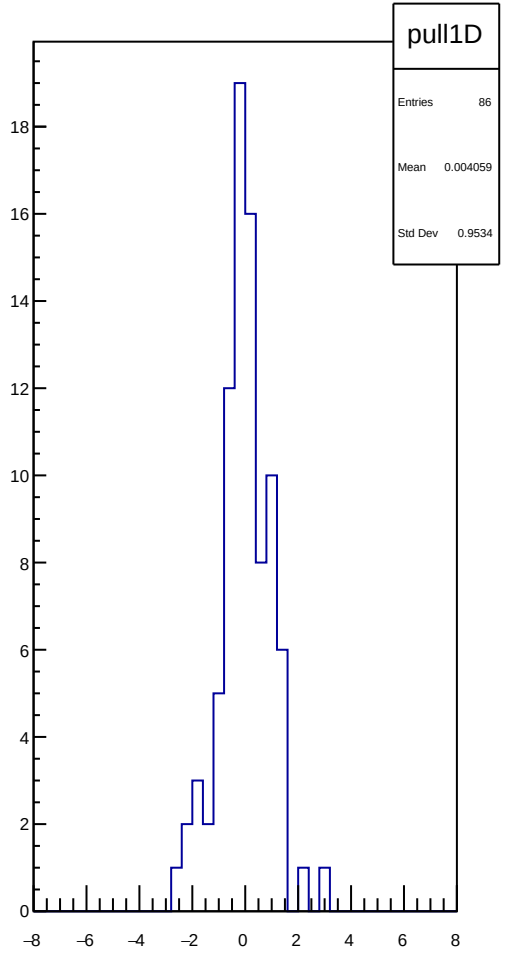

diff_bpm1X_rms vs run
χ² / ndf 2.006e+04 / 85
p0 2.528e+04 ± 19.57
34000
32000
30000
28000
26000
24000
22000

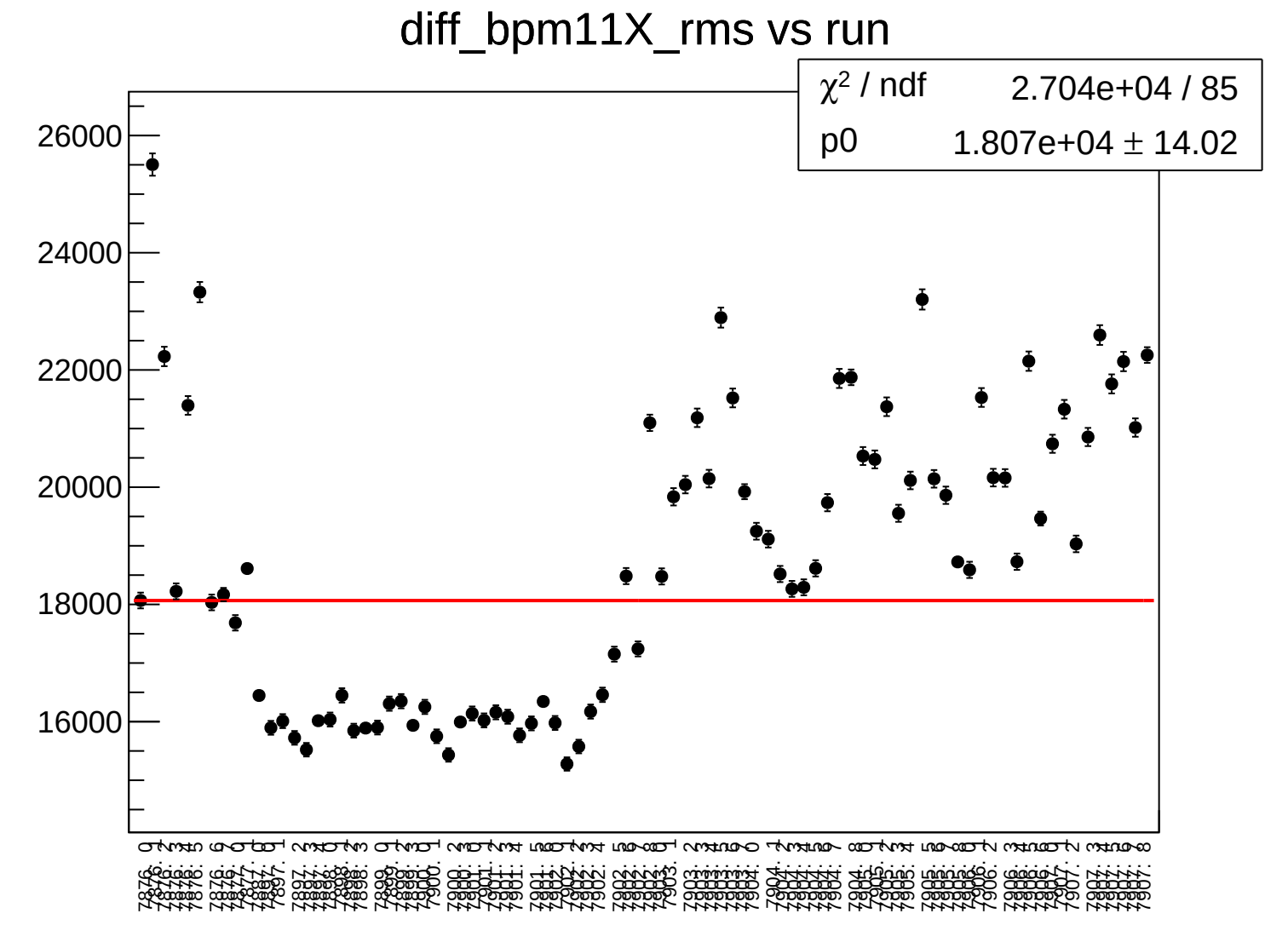

diff_bpm1Y_mean vs run
χ² / ndf 79.46 / 85
p0 0.8589 ± 5.402
pull
Entries 86
Mean −1131
Std Dev 0

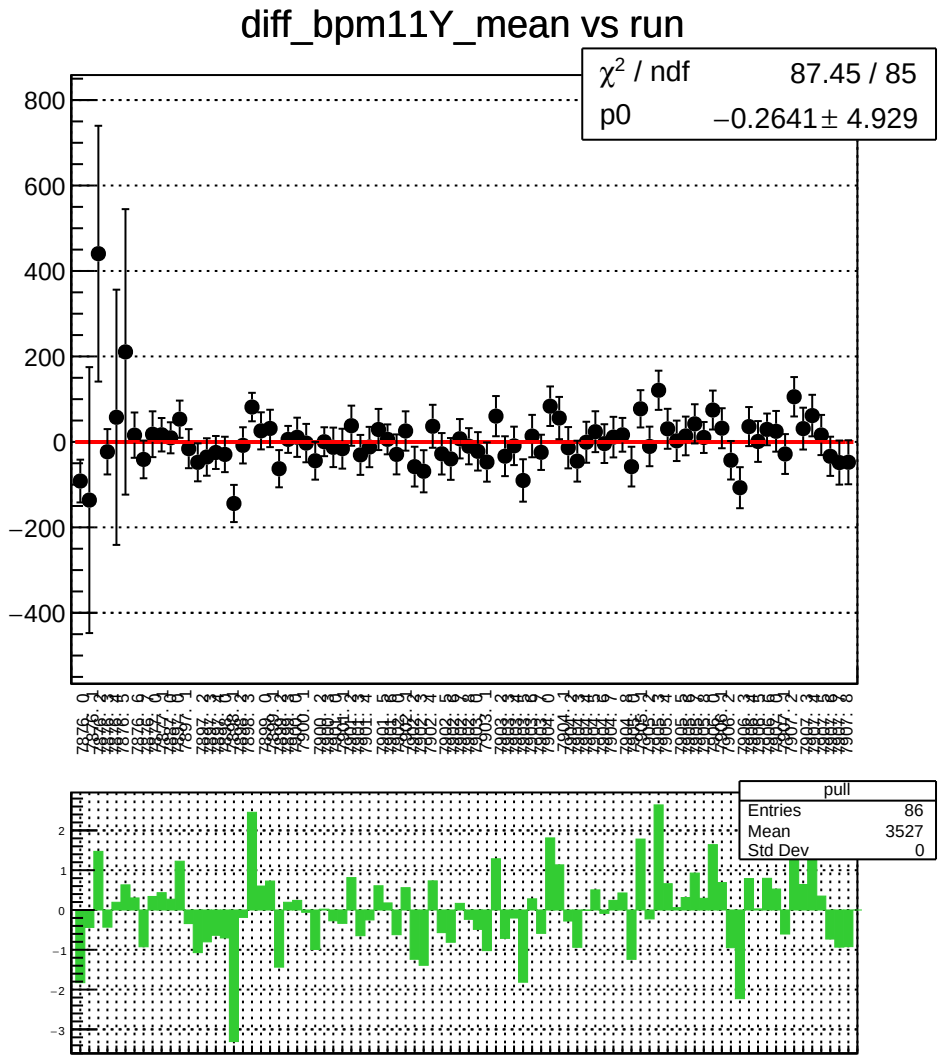

pull1D
Entries 86
Mean 0.002558
Std Dev 0.9612

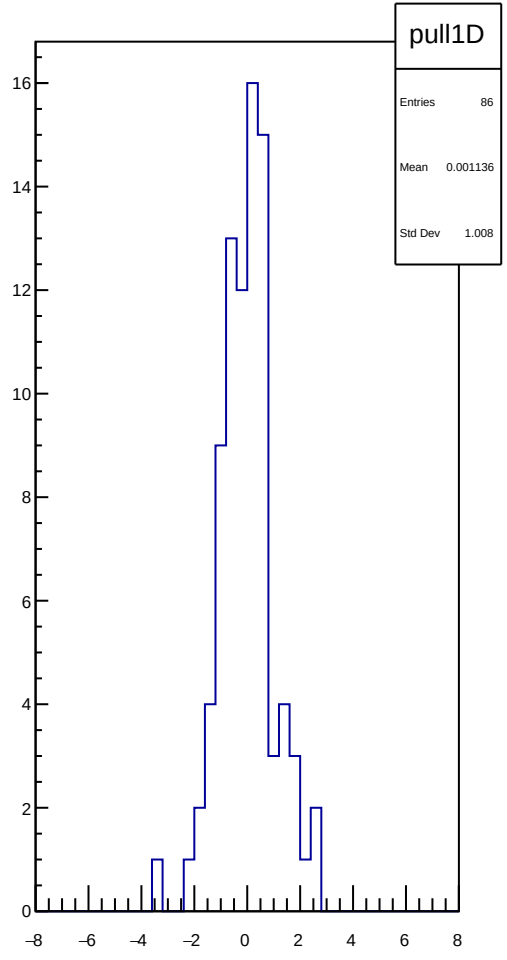

diff_bpm1Y_rms vs run
χ² / ndf 5.743e+04 / 85
p0 4877 ± 3.82
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000

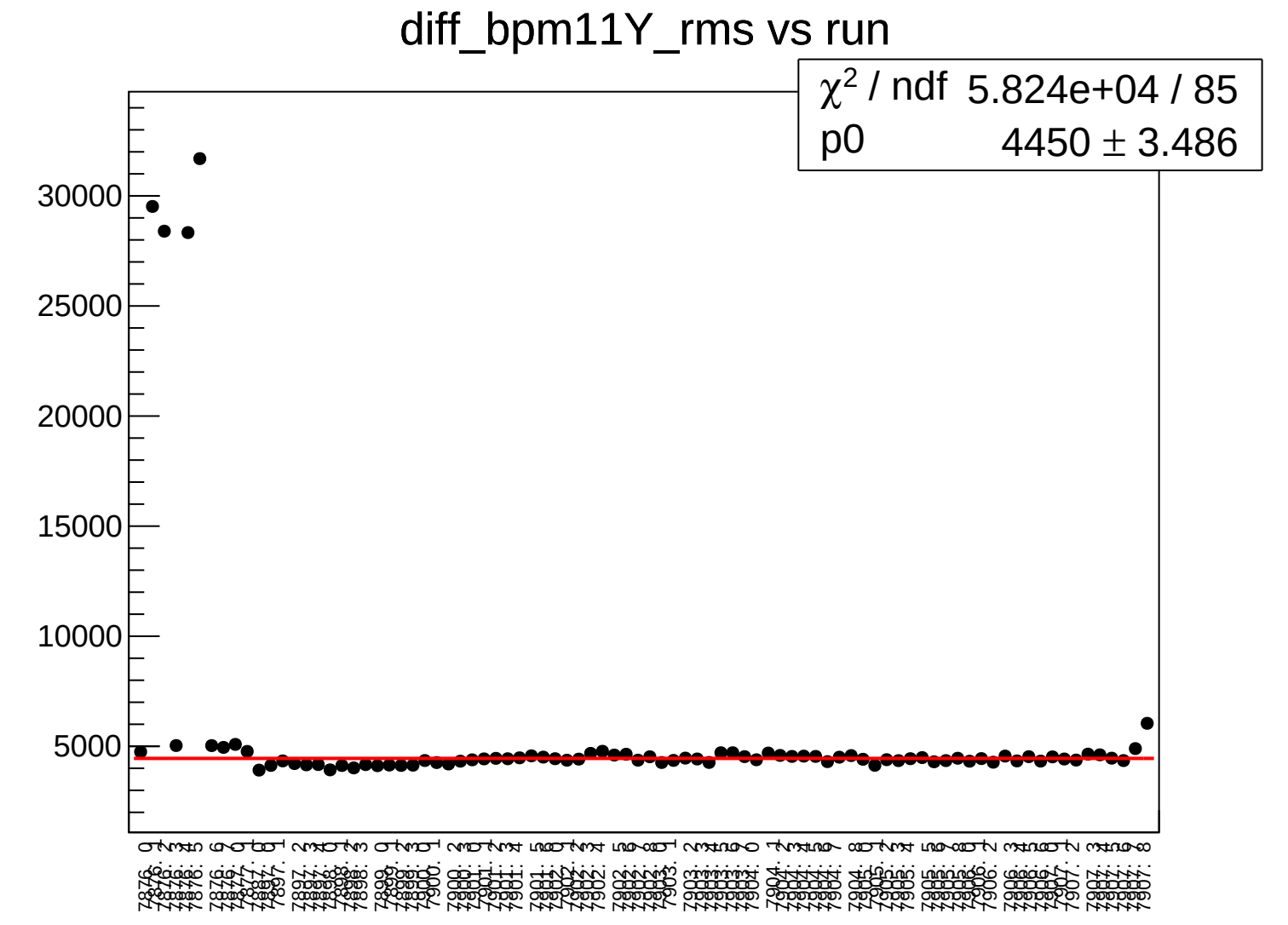

diff_bpm11X_mean vs run
χ² / ndf 78.17 / 85
p0 21.72 ± 19.82
pull
Entries 86
Mean −389.3
Std Dev 0

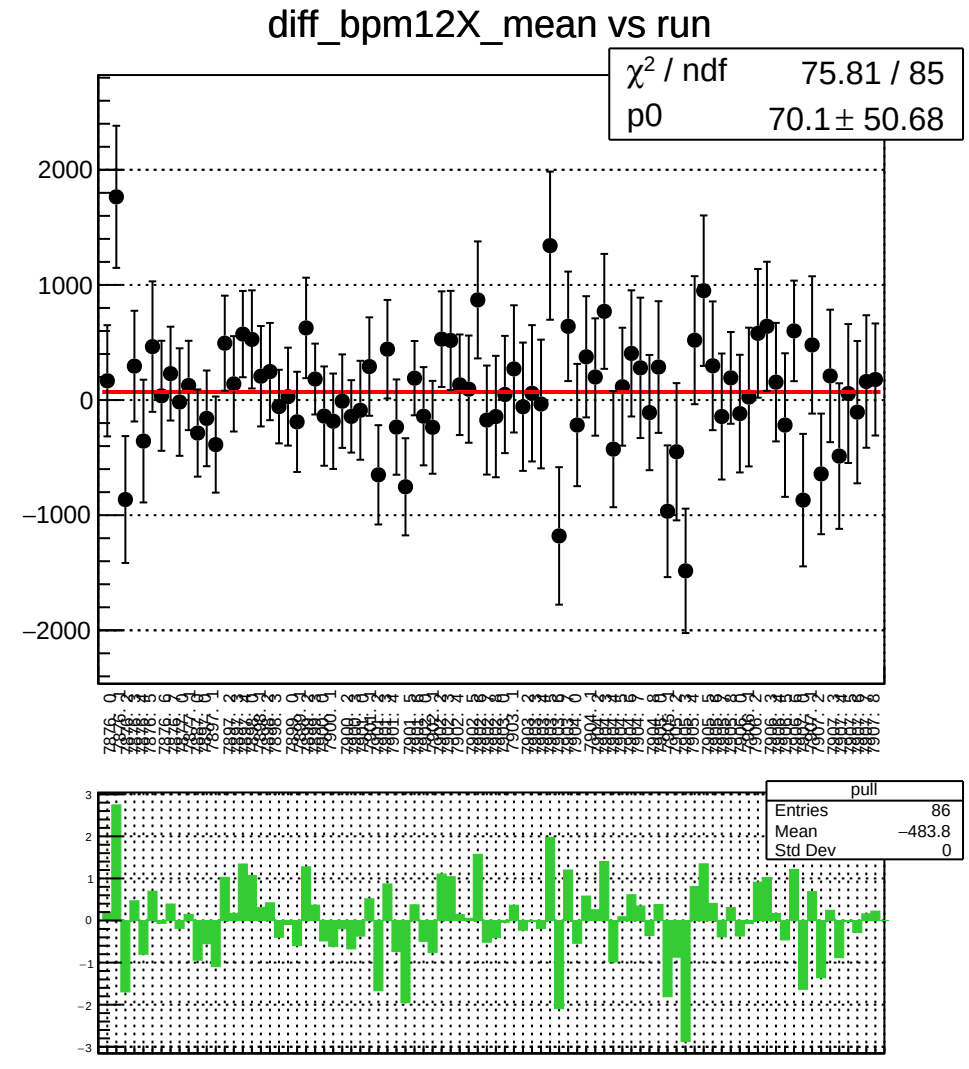

pull1D
Entries 86
Mean 0.004059
Std Dev 0.9534

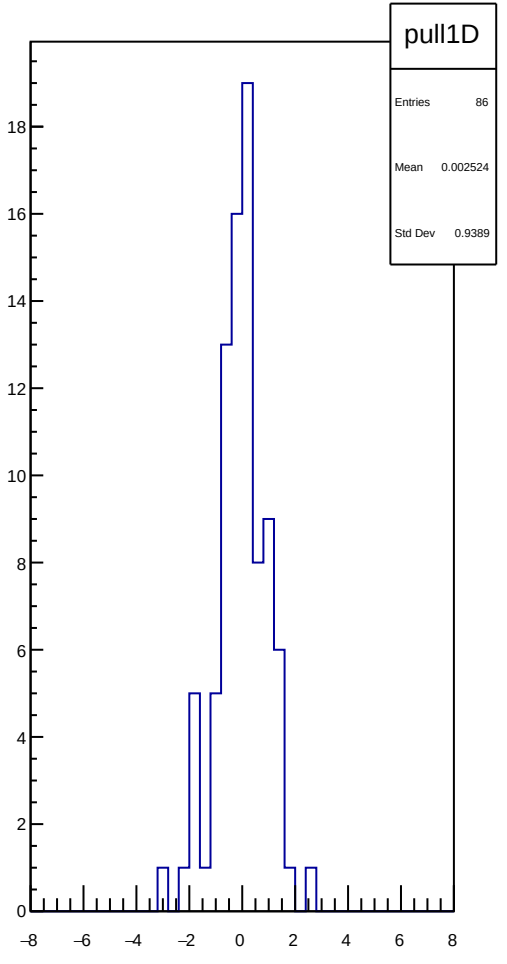

diff_bpm11X_rms vs run
χ² / ndf 2.704e+04 / 85
p0 1.807e+04 ± 14.02
26000
24000
22000
20000
18000
16000

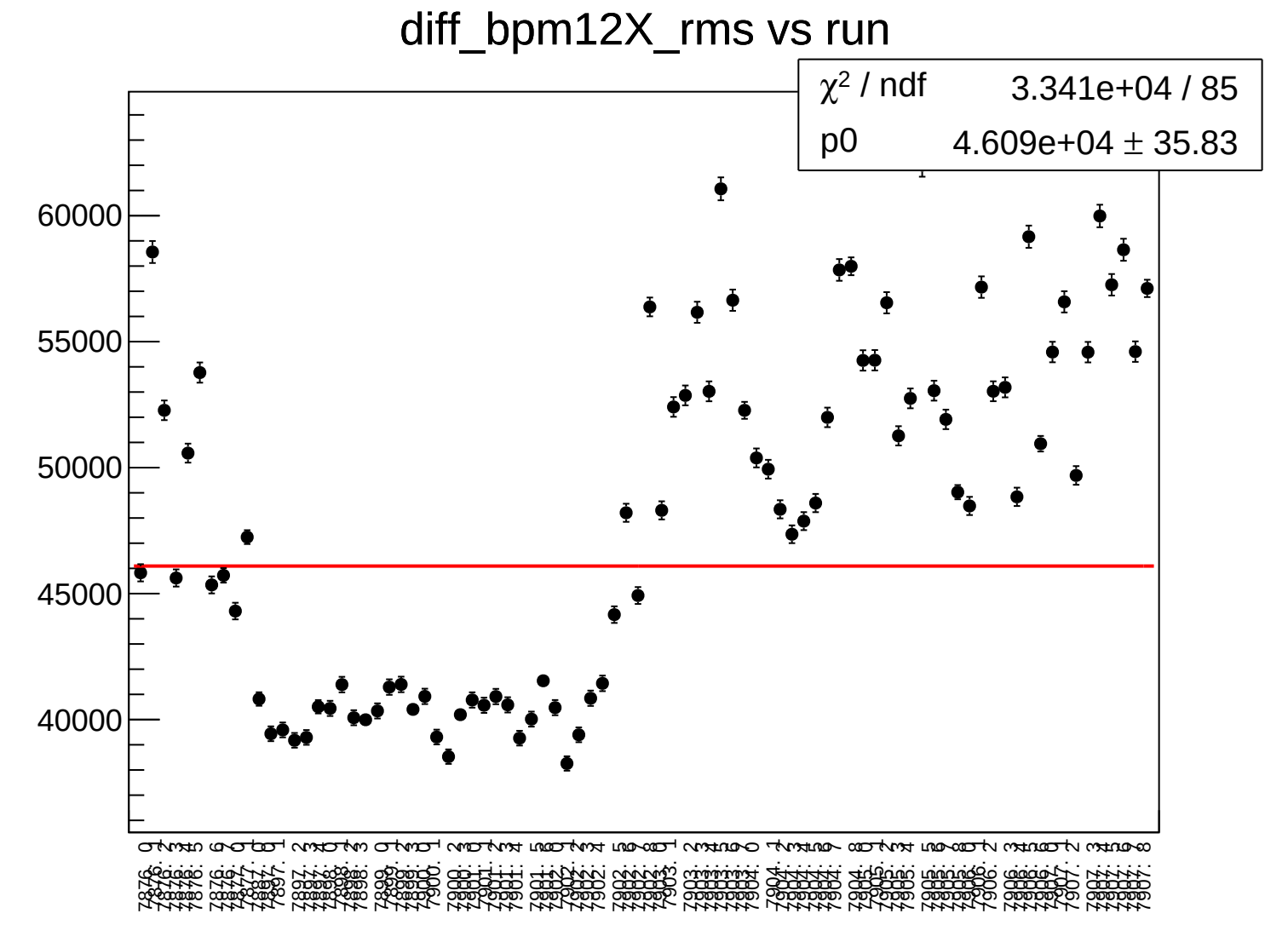

diff_bpm11Y_mean vs run
χ² / ndf 87.45 / 85
p0 −0.2641 ± 4.929
800
600
400
200
0
−200
−400
pull
Entries 86
Mean 3527
Std Dev 0
2
1
0
−1
−2
−3

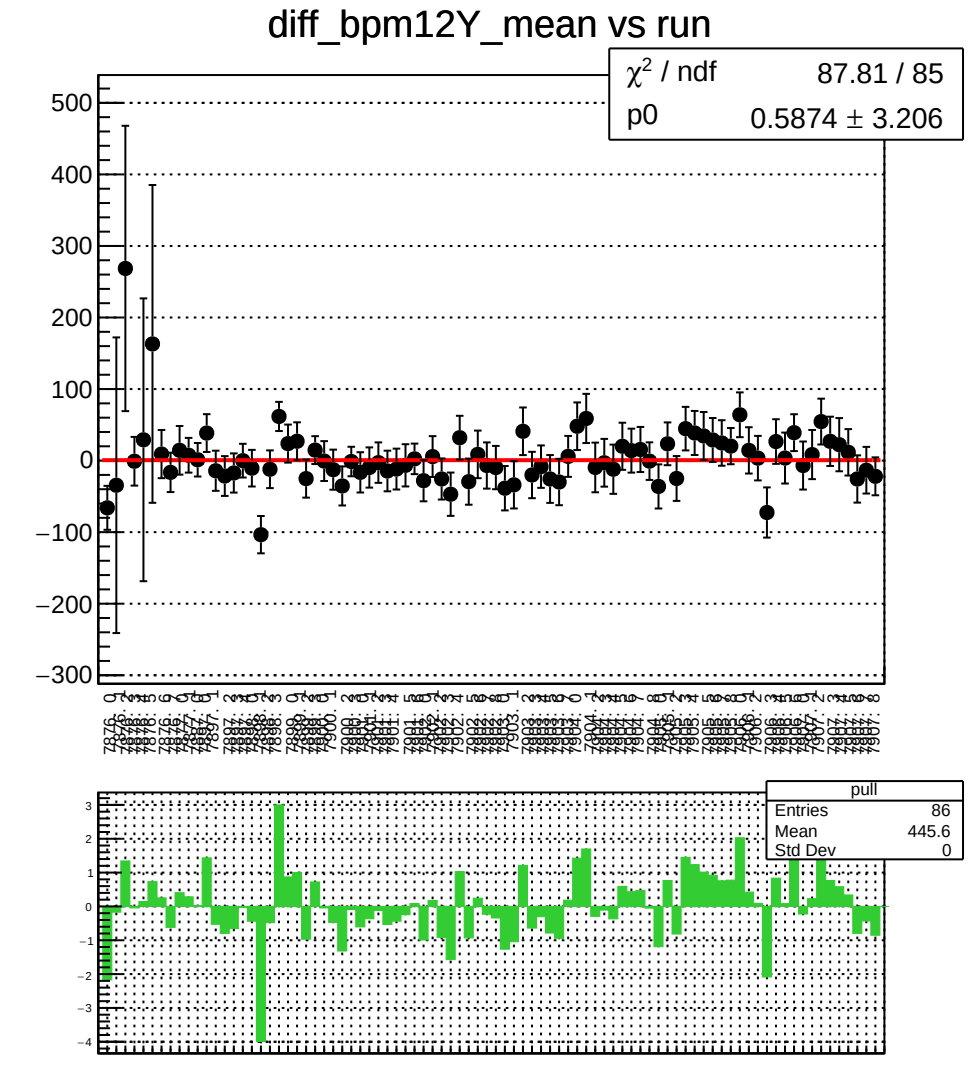

pull1D
Entries 86
Mean 0.001136
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

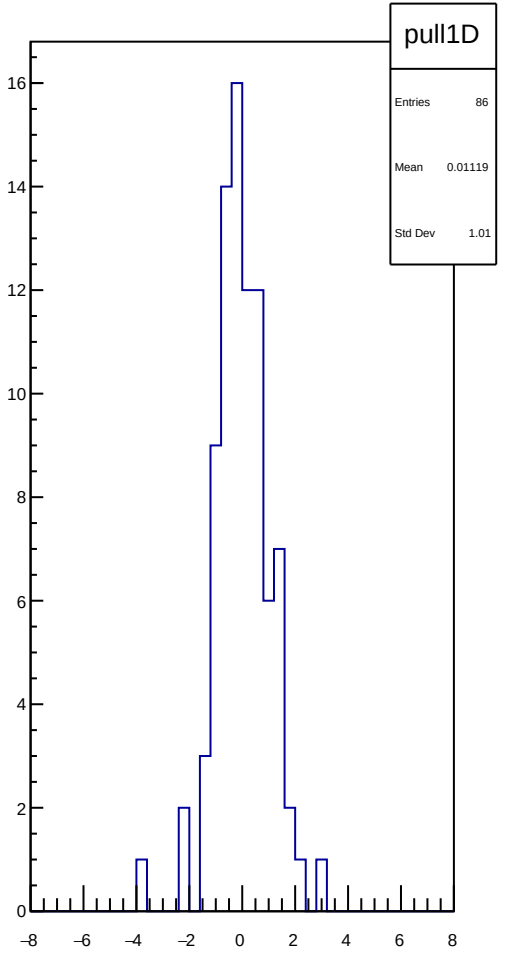

diff_bpm11Y_rms vs run
χ² / ndf 5.824e+04 / 85
p0 4450 ± 3.486
30000
25000
20000
15000
10000
5000

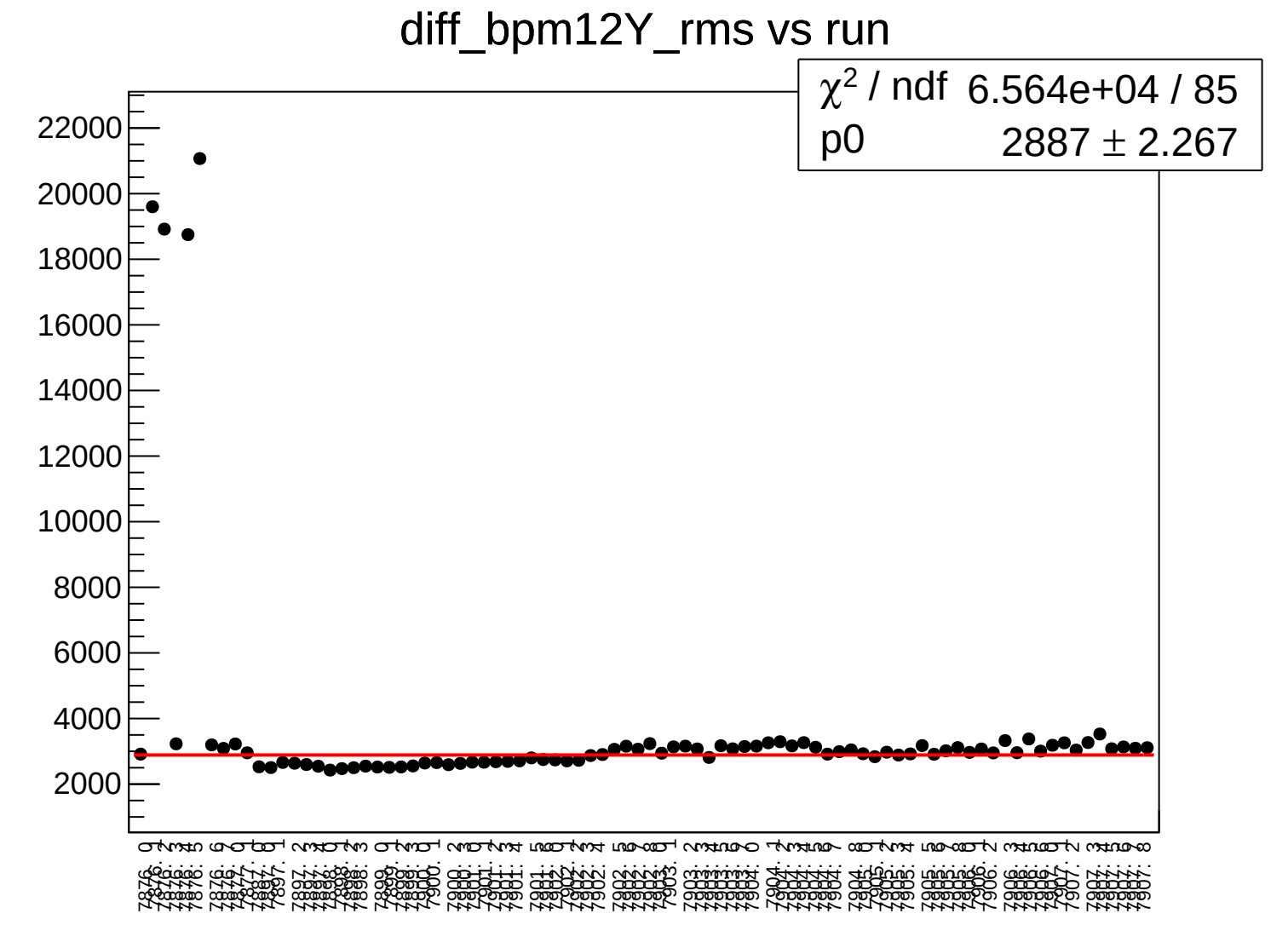

diff_bpm12X_mean vs run
χ² / ndf 75.81 / 85
p0 70.1 ± 50.68
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −483.8
Std Dev 0
3
2
1
0
−1
−2
−3

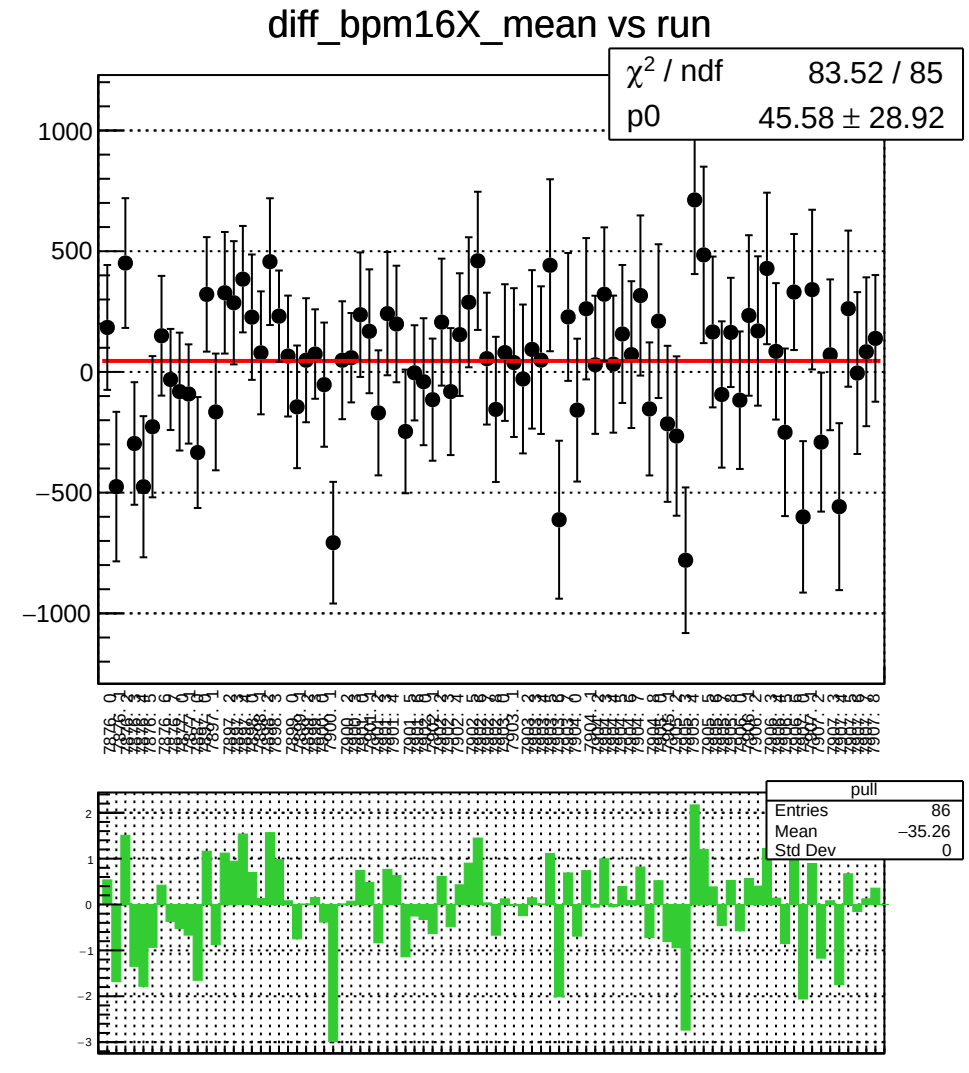

pull1D
Entries 86
Mean 0.002524
Std Dev 0.9389
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

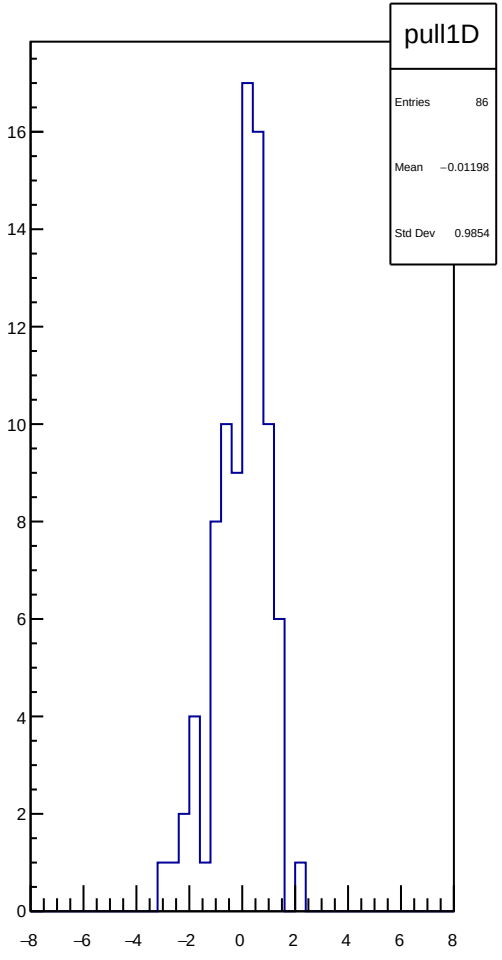

diff_bpm12X_rms vs run
χ² / ndf 3.341e+04 / 85
p0 4.609e+04 ± 35.83
60000
55000
50000
45000
40000

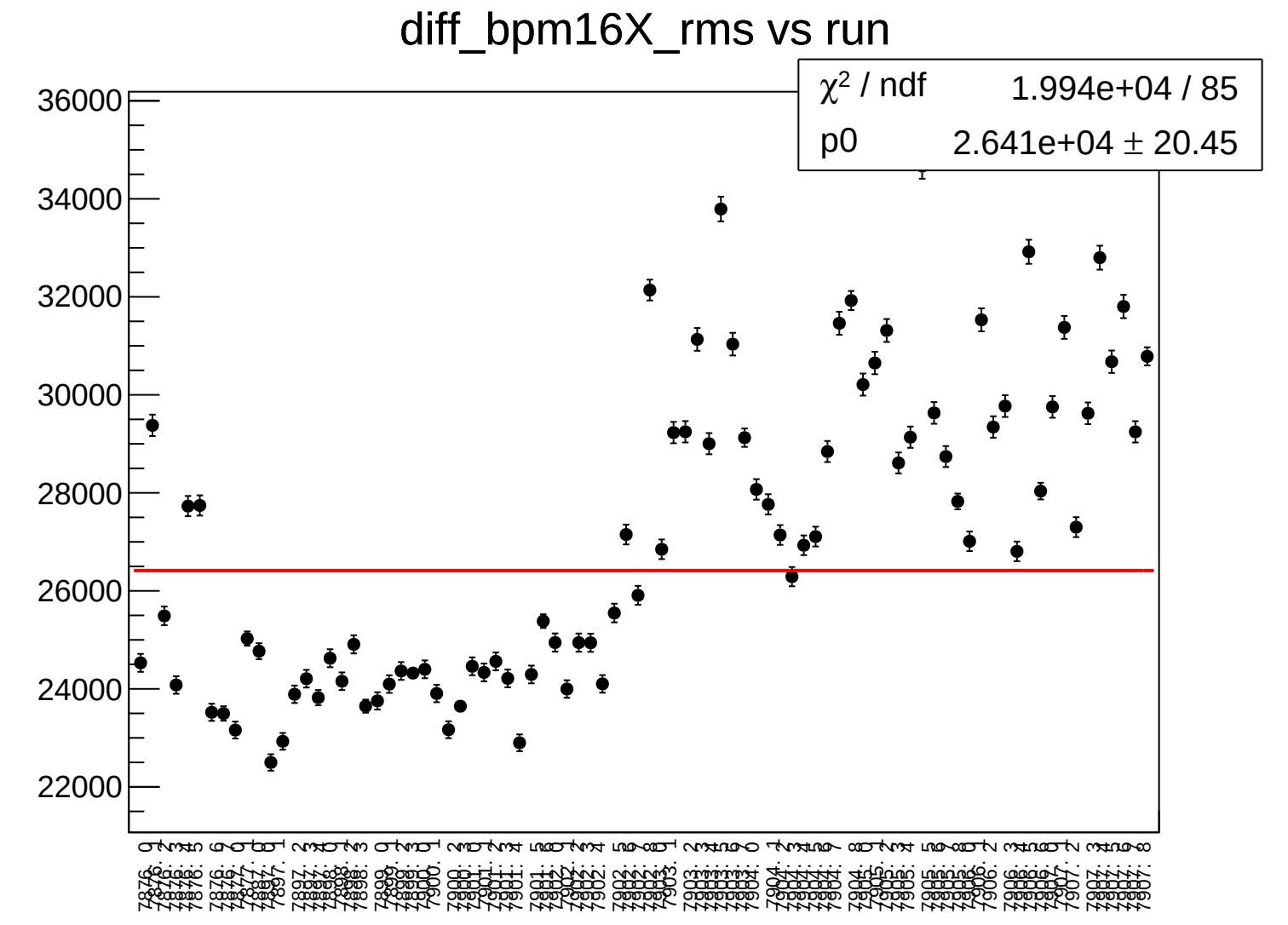

diff_bpm12Y_mean vs run
χ² / ndf 87.81 / 85
p0 0.5874 ± 3.206
pull
Entries 86
Mean 445.6
Std Dev 0

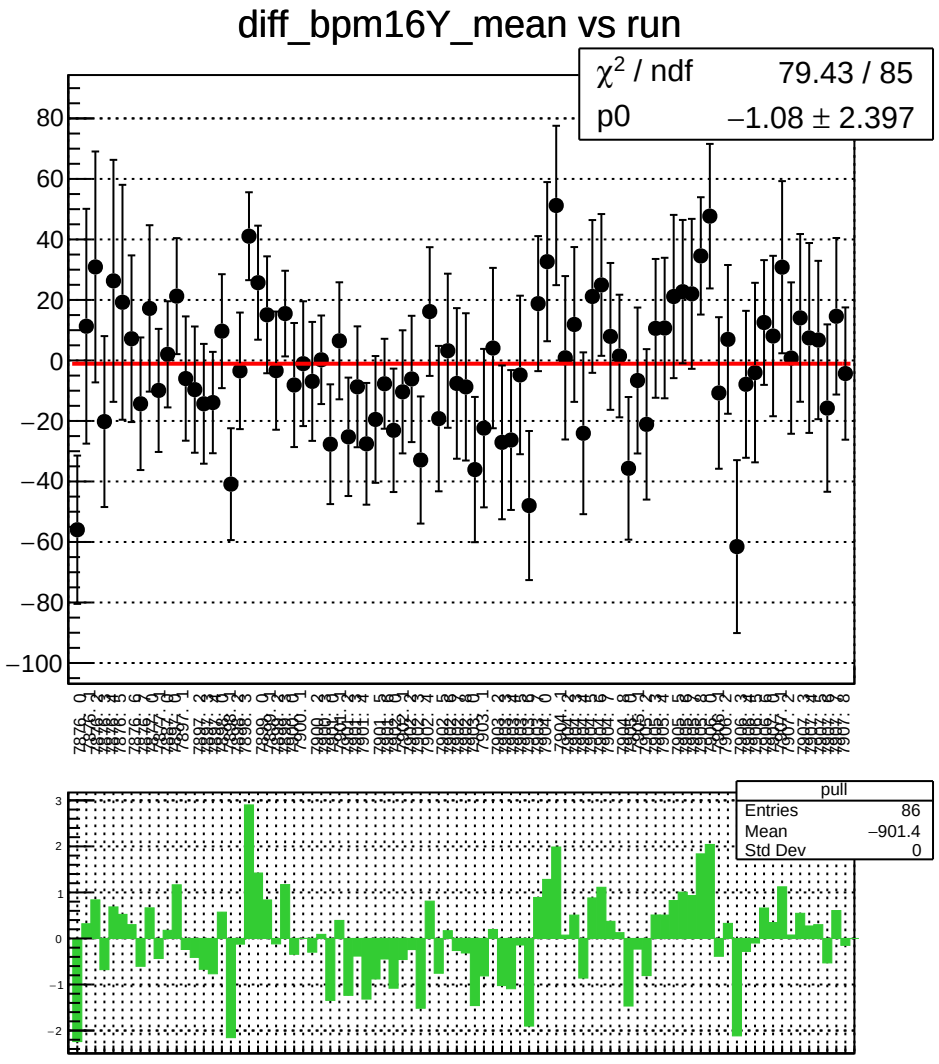

pull1D
Entries 86
Mean 0.01119
Std Dev 1.01

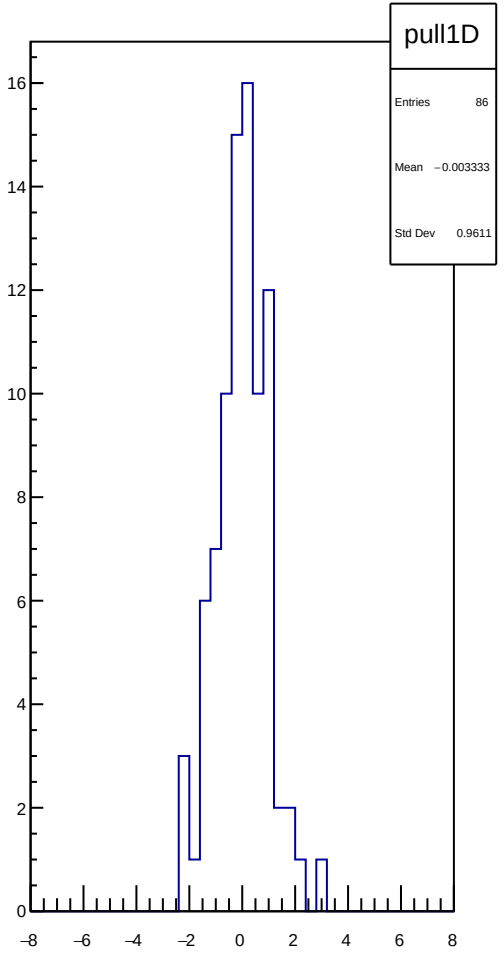

diff_bpm12Y_rms vs run
χ² / ndf 6.564e+04 / 85
p0 2887 ± 2.267
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

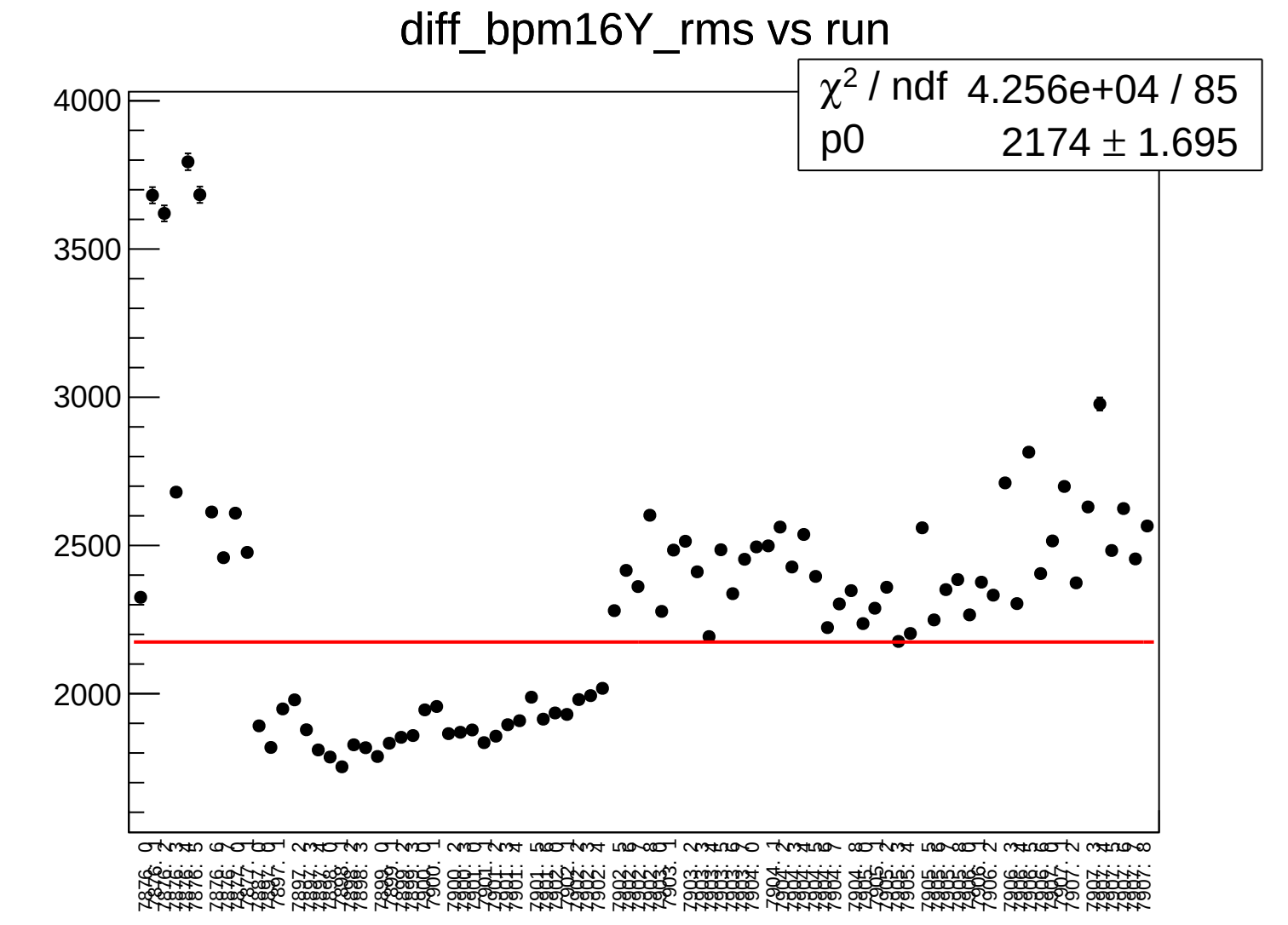

diff_bpm16X_mean vs run
χ^2 / ndf 83.52 / 85
p0 45.58 ± 28.92
1000
500
0
−500
−1000
pull
Entries 86
Mean −35.26
Std Dev 0
2
1
0
−1
−2
−3

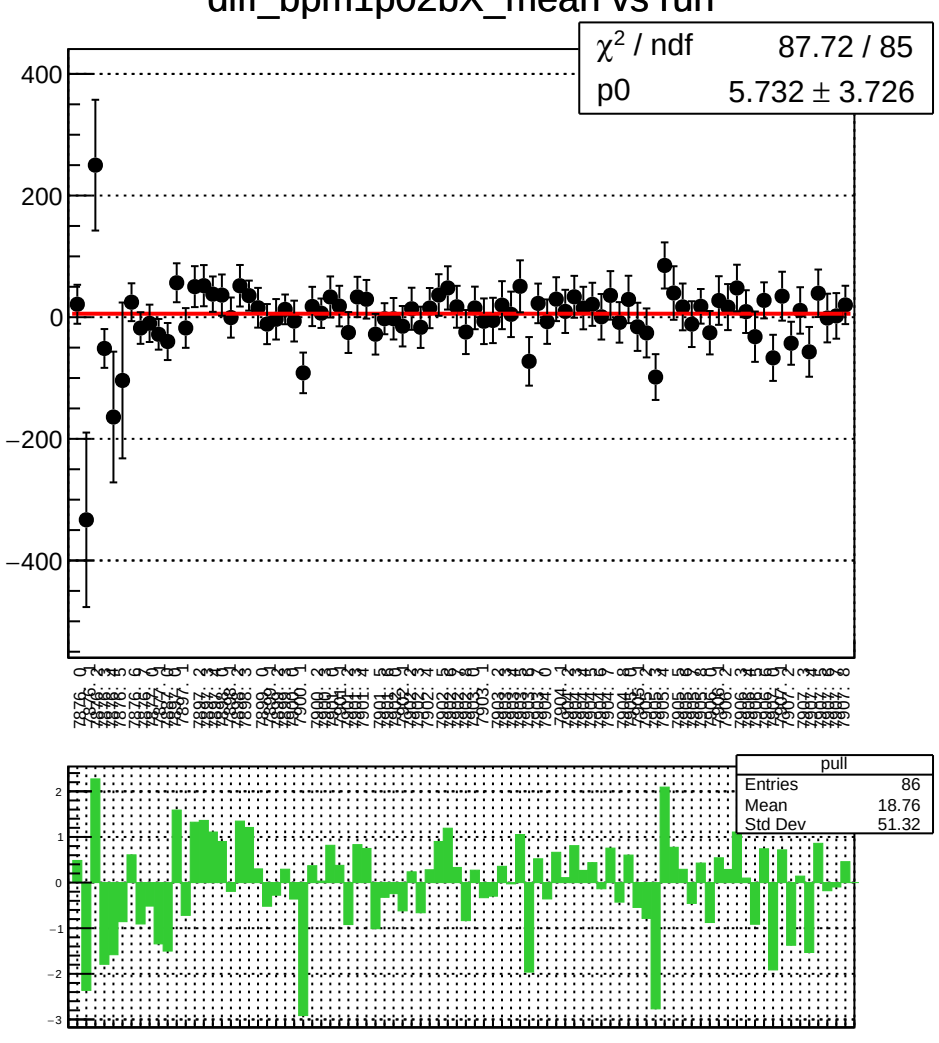

pull1D
Entries 86
Mean −0.01198
Std Dev 0.9854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

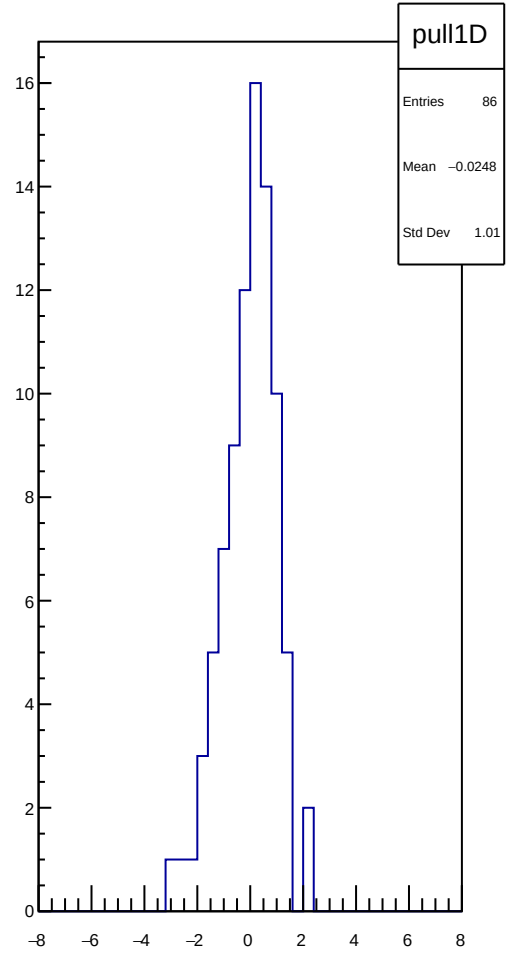

diff_bpm16X_rms vs run
χ² / ndf 1.994e+04 / 85
p0 2.641e+04 ± 20.45
36000
34000
32000
30000
28000
26000
24000
22000

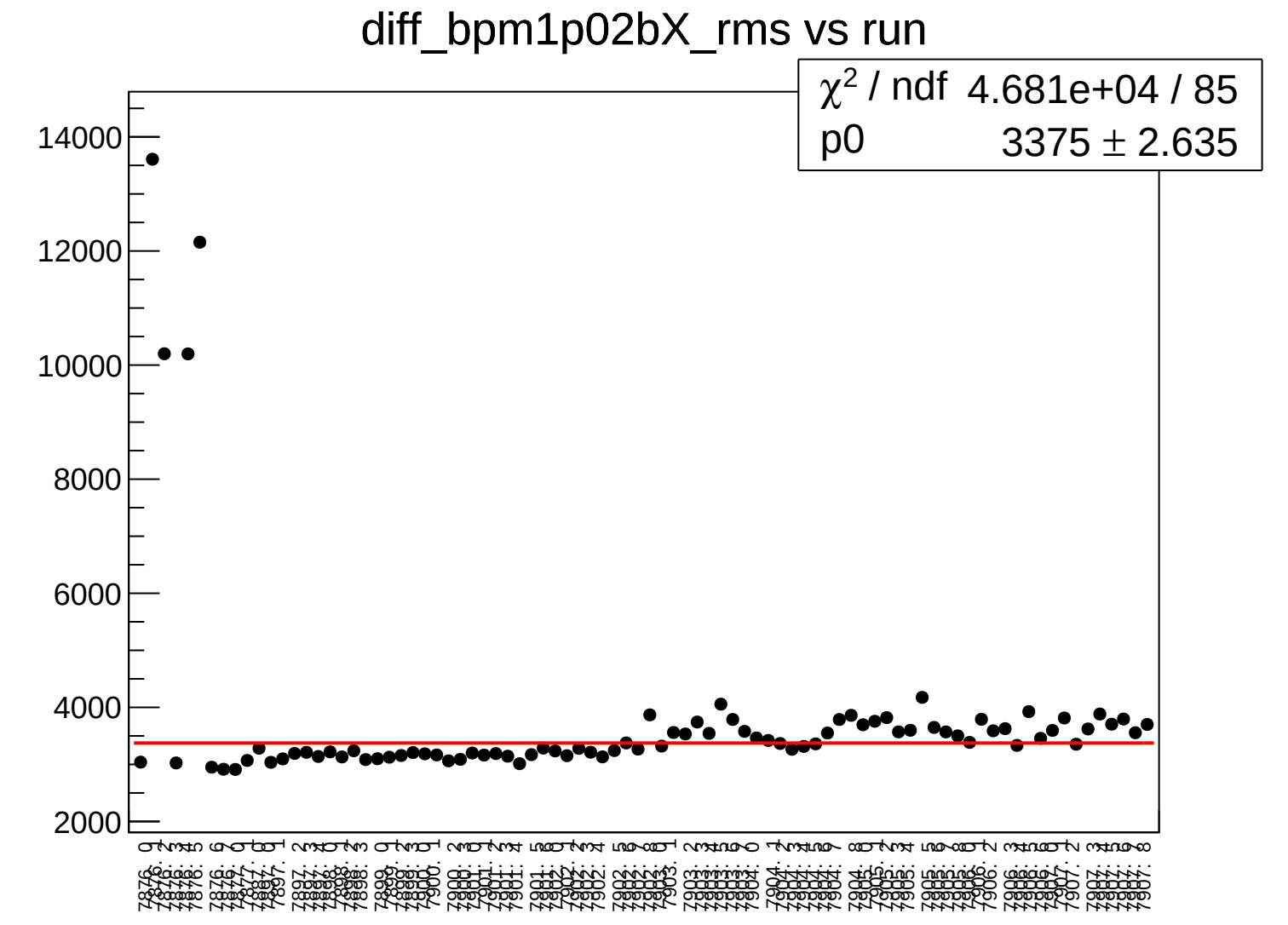

diff_bpm16Y_mean vs run
χ² / ndf 79.43 / 85
p0 −1.08 ± 2.397
pull
Entries 86
Mean −901.4
Std Dev 0

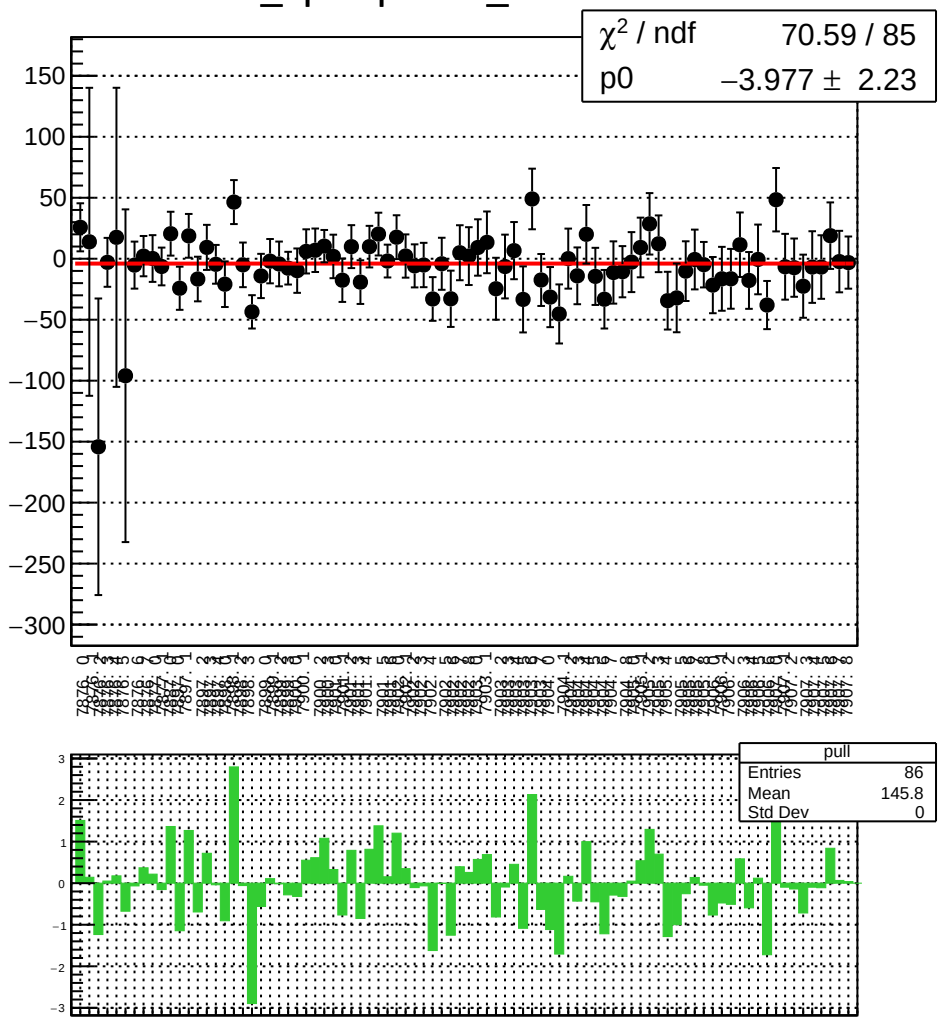

pull1D
Entries 86
Mean −0.003333
Std Dev 0.9611

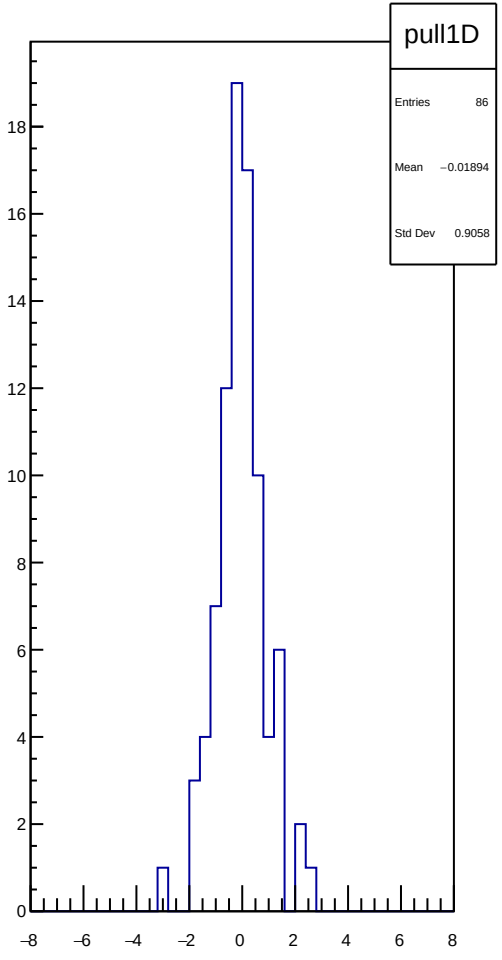

diff_bpm16Y_rms vs run
χ^2 / ndf 4.256e+04 / 85
p0 2174 ± 1.695
4000
3500
3000
2500
2000

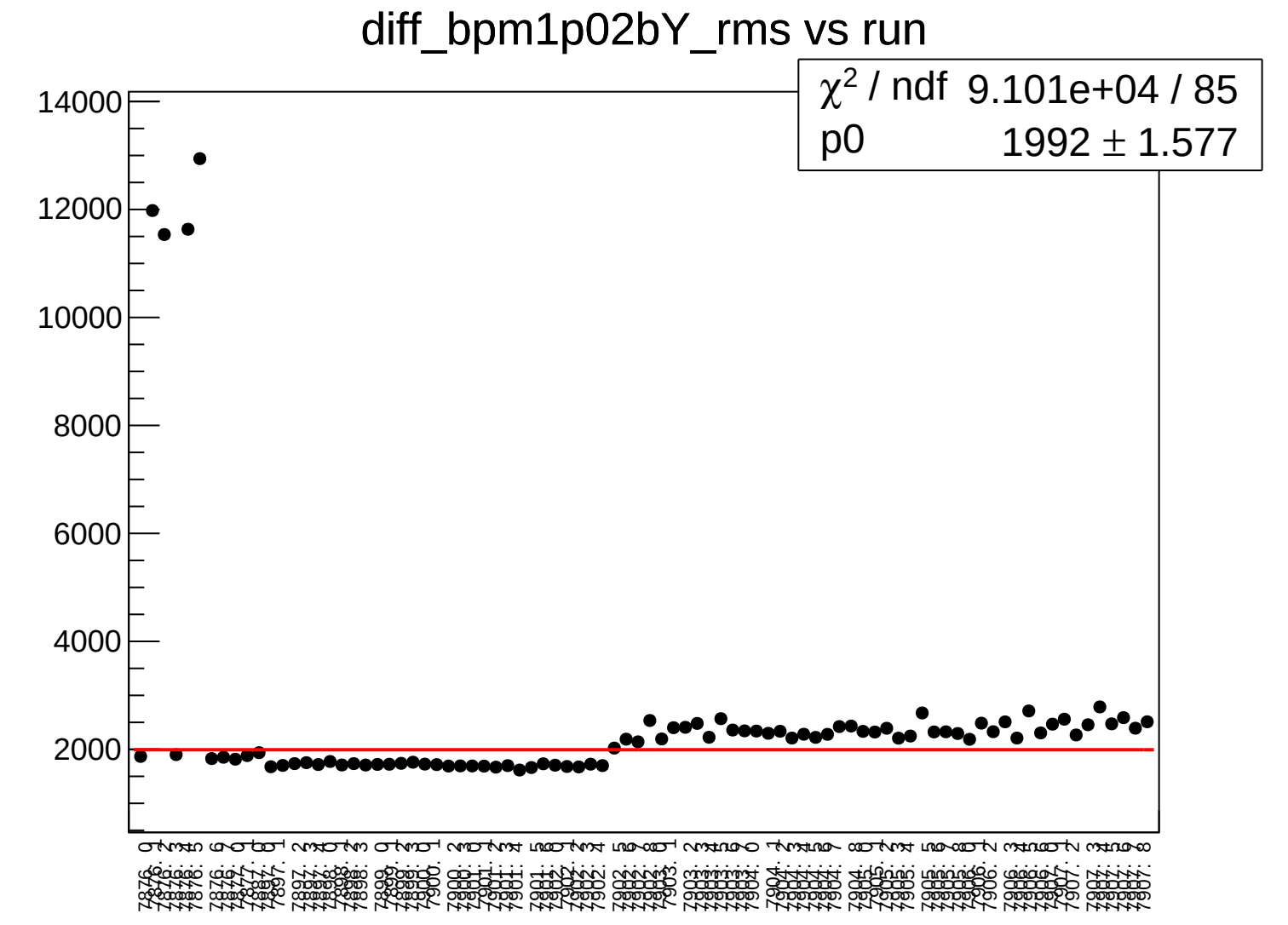

diff_bpm1p02bX_mean vs run
χ^2 / ndf 87.72 / 85
p0 5.732 ± 3.726
pull
Entries 86
Mean 18.76
Std Dev 51.32

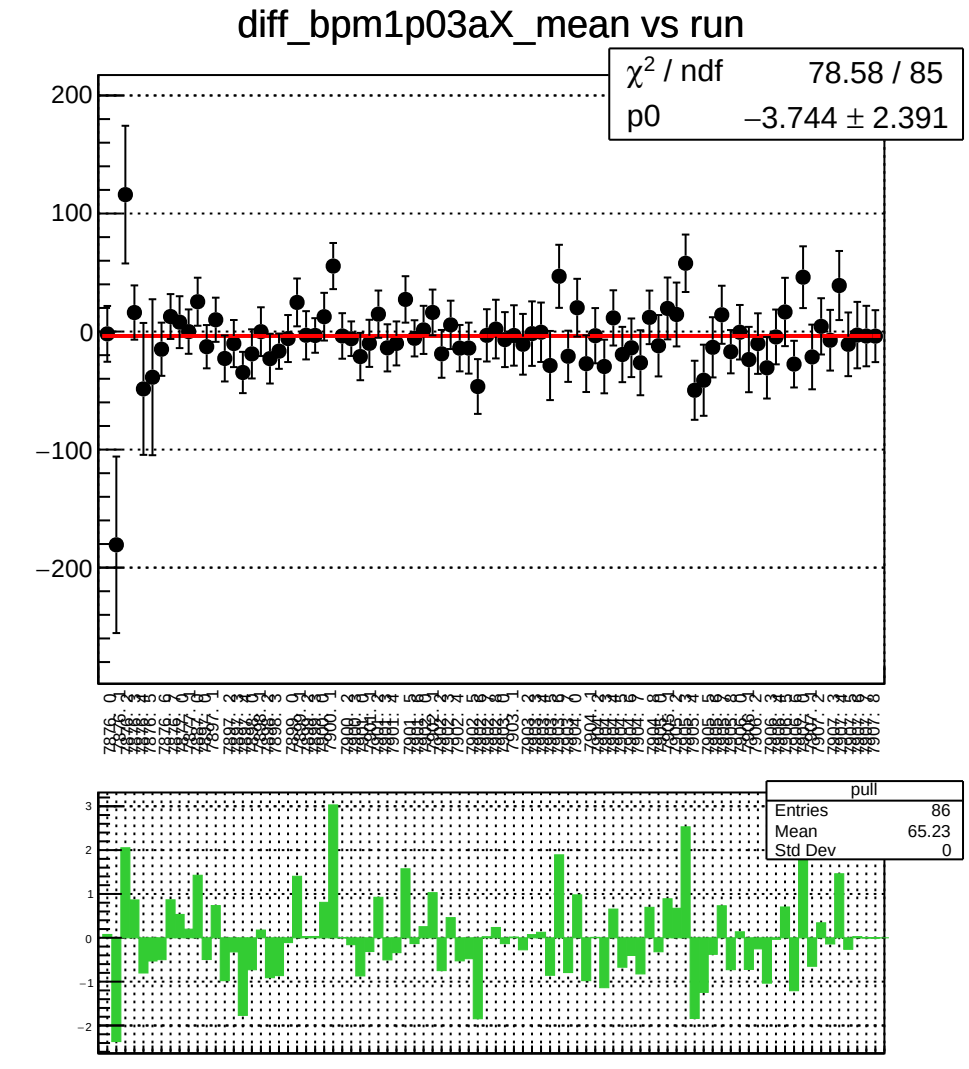

pull1D
Entries 86
Mean −0.0248
Std Dev 1.01

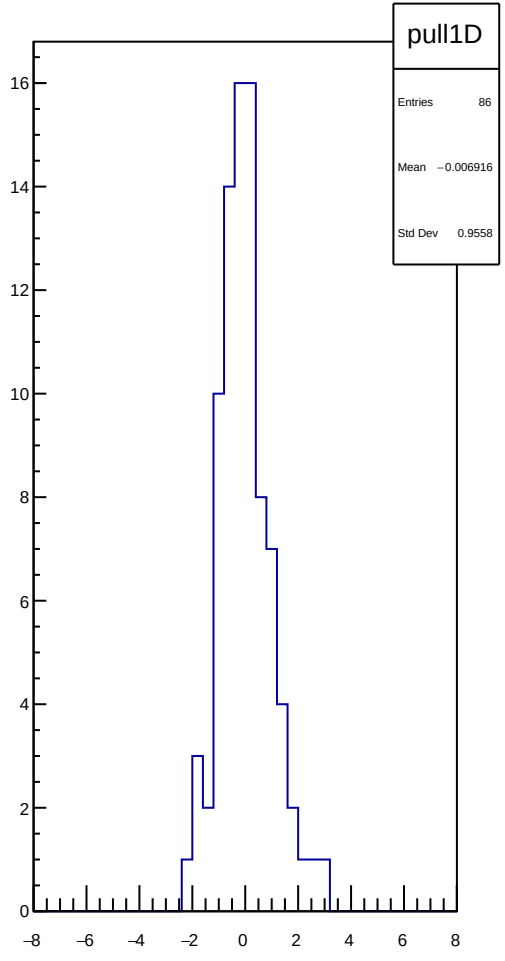

diff_bpm1p02bX_rms vs run
χ² / ndf 4.681e+04 / 85
p0 3375 ± 2.635
14000
12000
10000
8000
6000
4000
2000

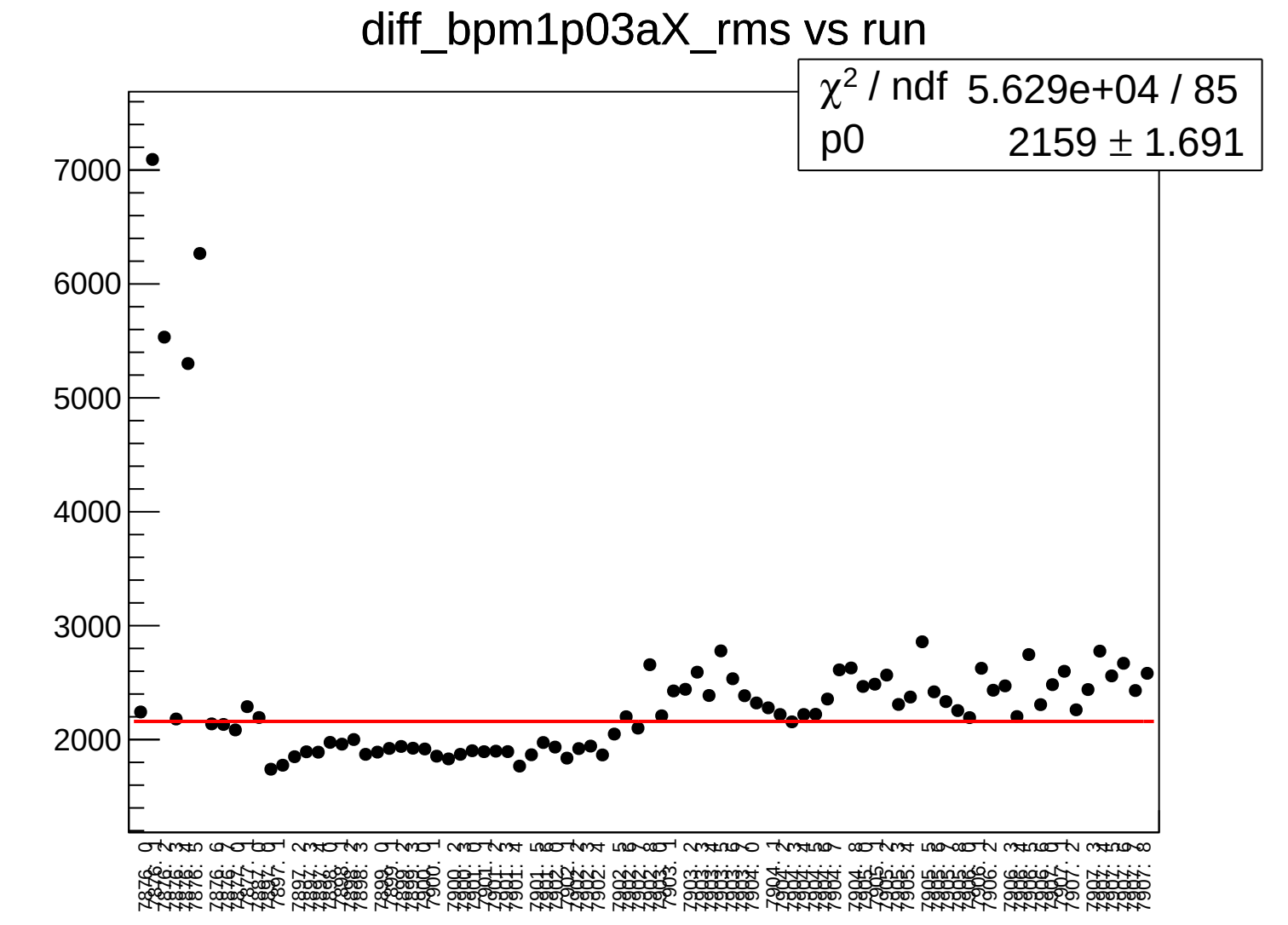

diff_bpm1p02bY_mean vs run
χ² / ndf 70.59 / 85
p0 −3.977 ± 2.23
pull
Entries 86
Mean 145.8
Std Dev 0

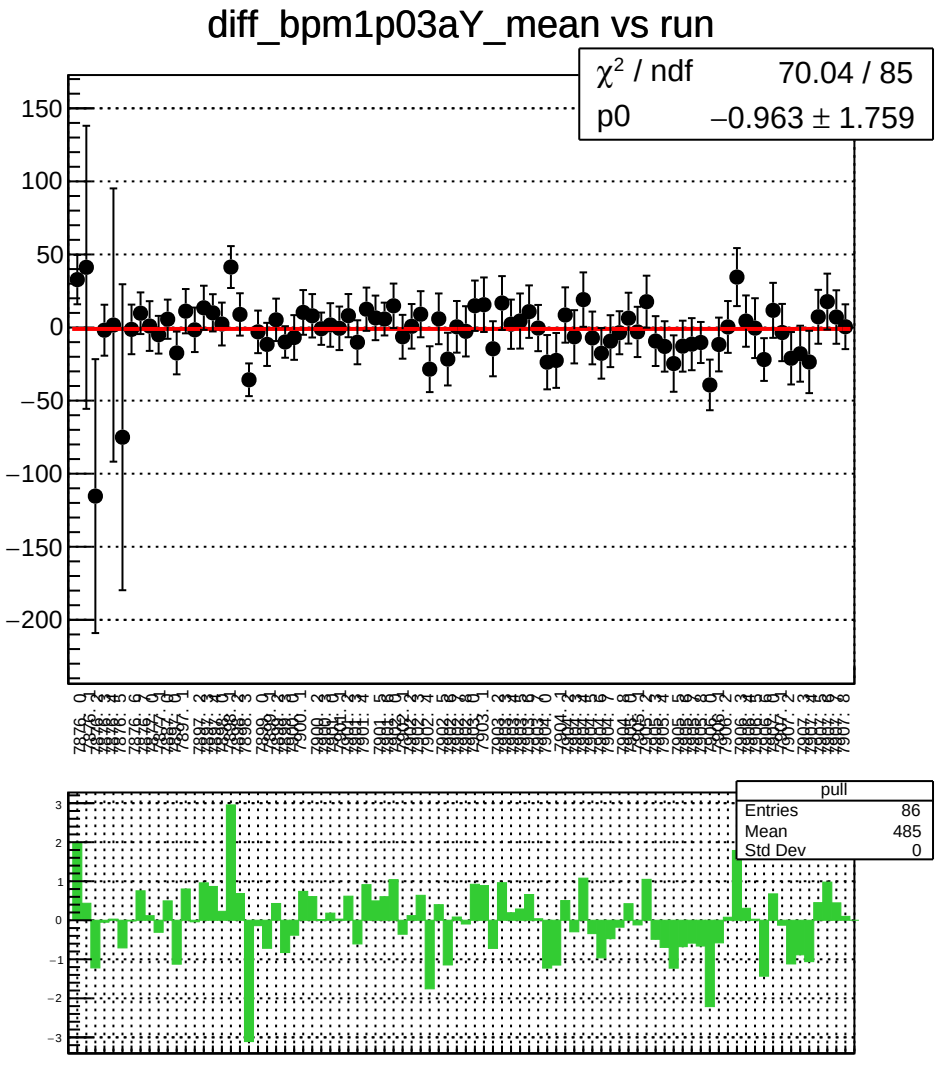

pull1D
Entries 86
Mean −0.01894
Std Dev 0.9058

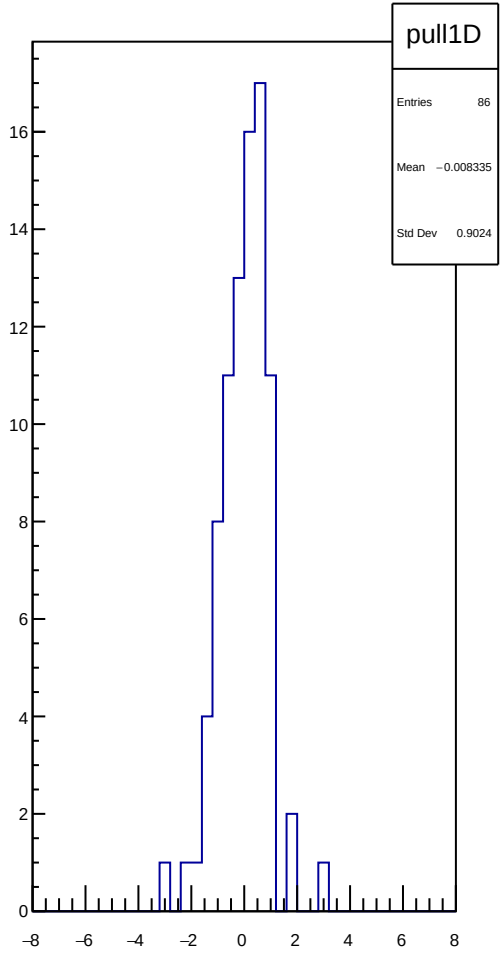

diff_bpm1p02bY_rms vs run
χ² / ndf 9.101e+04 / 85
p0 1992 ± 1.577
14000
12000
10000
8000
6000
4000
2000

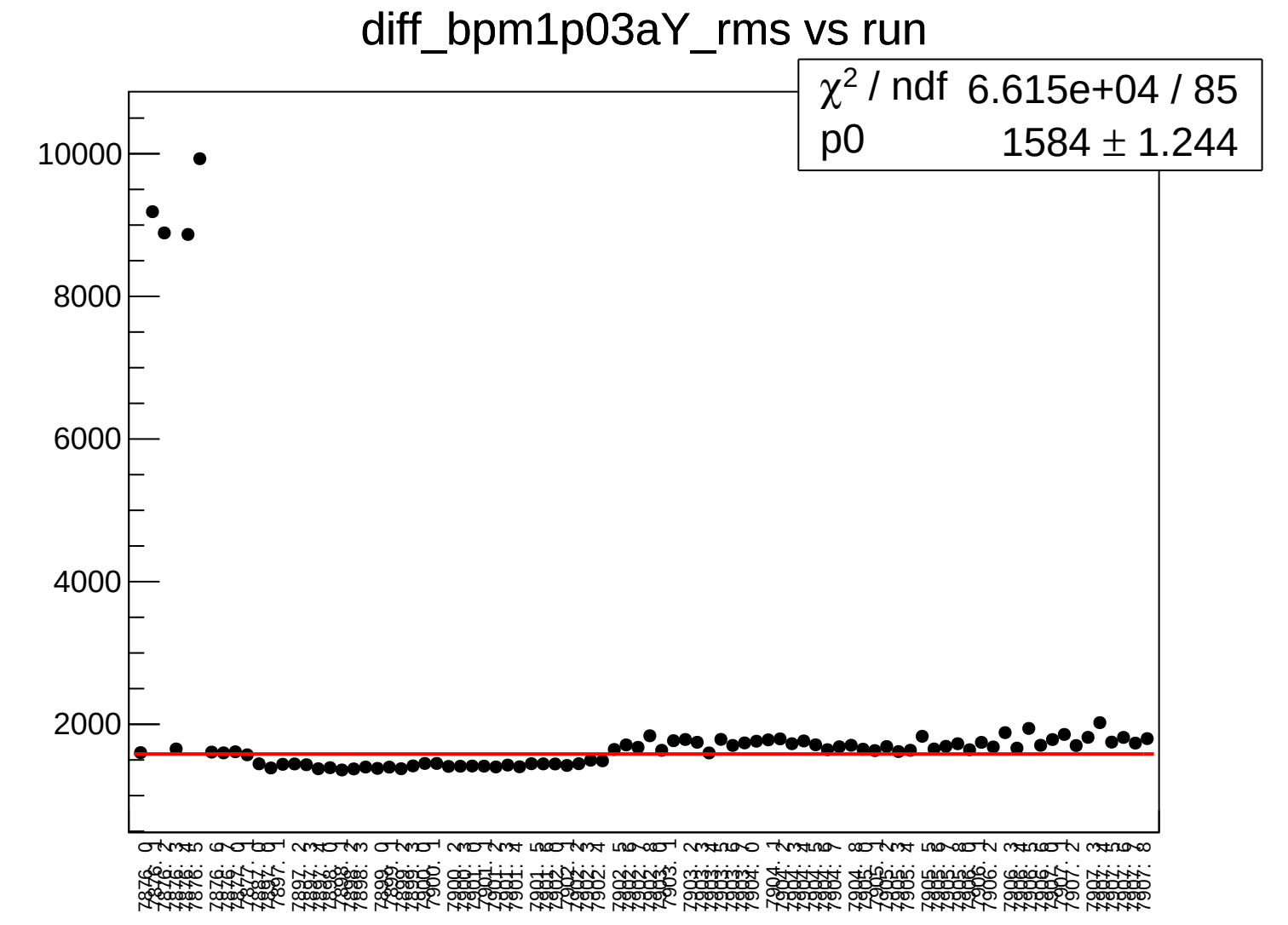

diff_bpm1p03aX_mean vs run
χ² / ndf 78.58 / 85
p0 −3.744 ± 2.391
200
100
0
−100
−200
pull
Entries 86
Mean 65.23
Std Dev 0
3
2
1
0
−1
−2

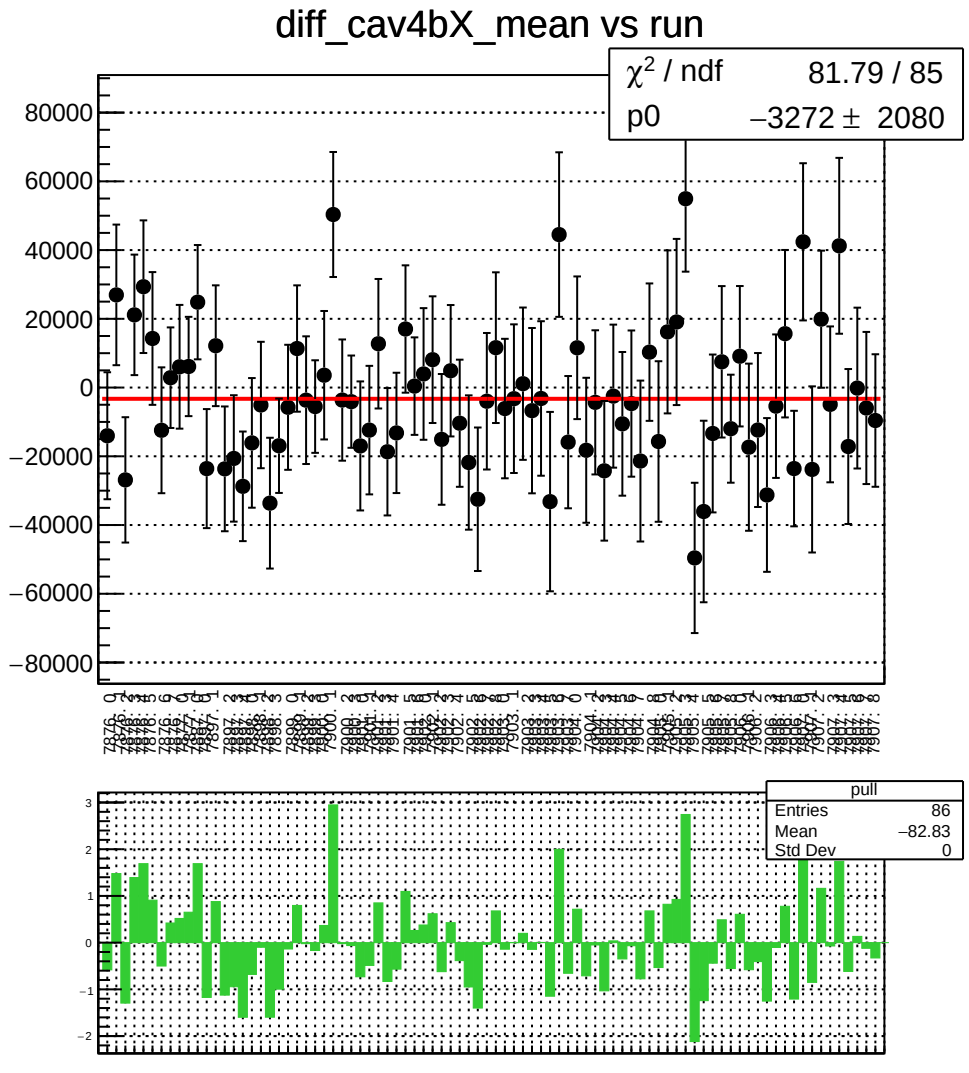

pull1D
Entries 86
Mean −0.006916
Std Dev 0.9558
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

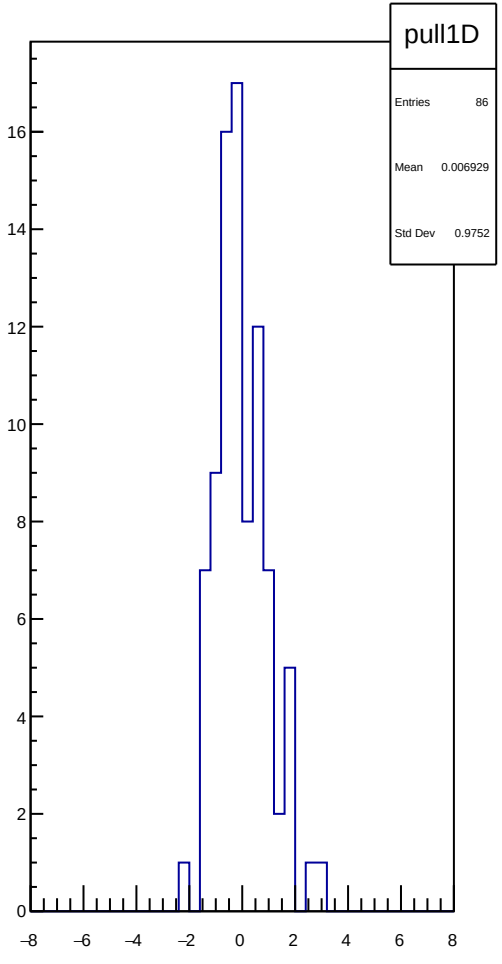

diff_bpm1p03aX_rms vs run
χ^2 / ndf 5.629e+04 / 85
p0 2159 ± 1.691
7000
6000
5000
4000
3000
2000

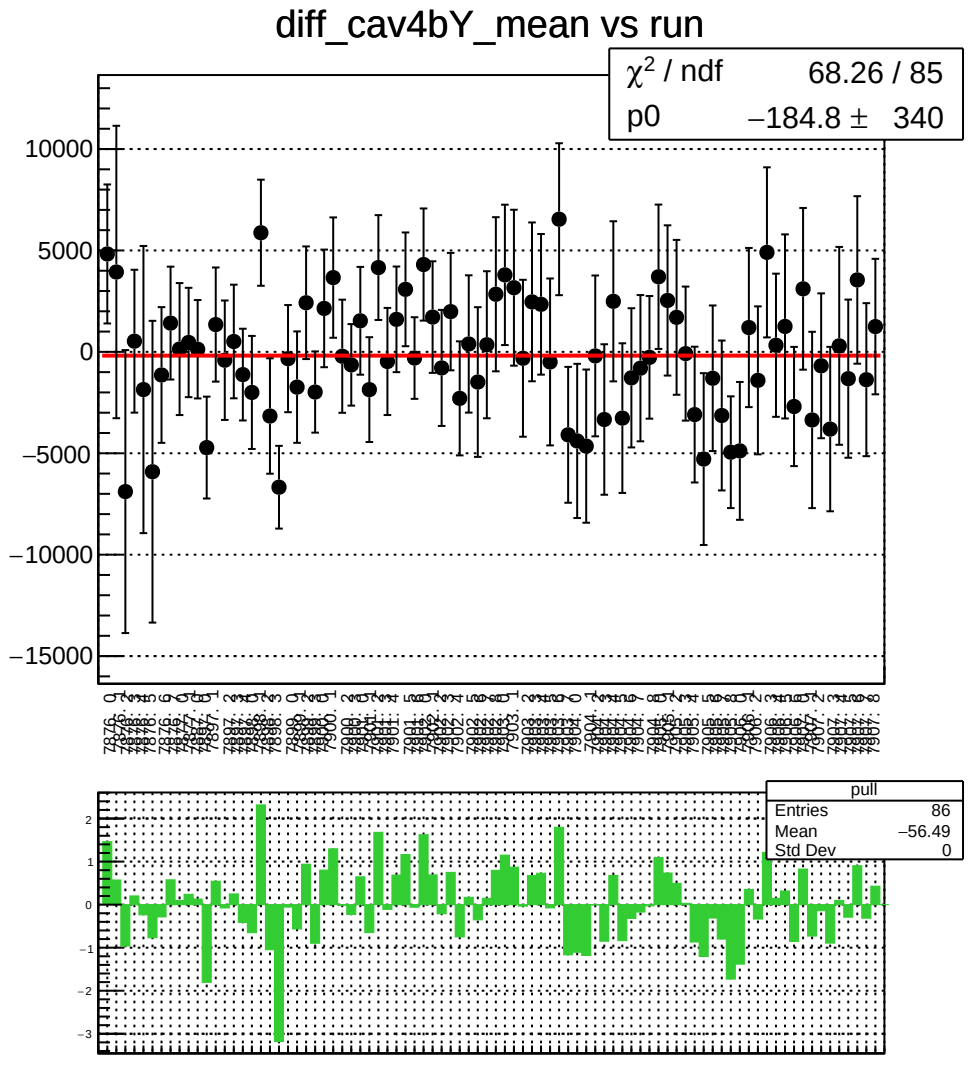

diff_bpm1p03aY_mean vs run
χ² / ndf 70.04 / 85
p0 −0.963 ± 1.759
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 485
Std Dev 0
3
2
1
0
−1
−2
−3

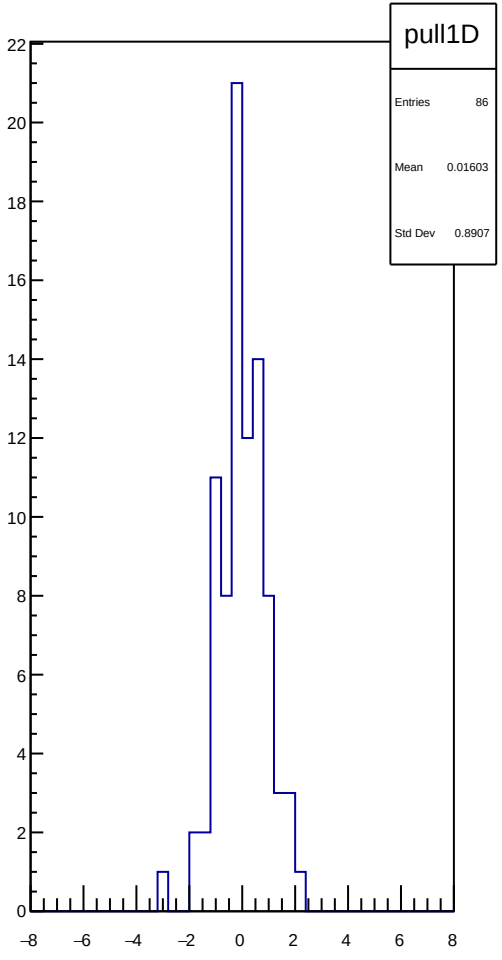

pull1D
Entries 86
Mean −0.008335
Std Dev 0.9024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

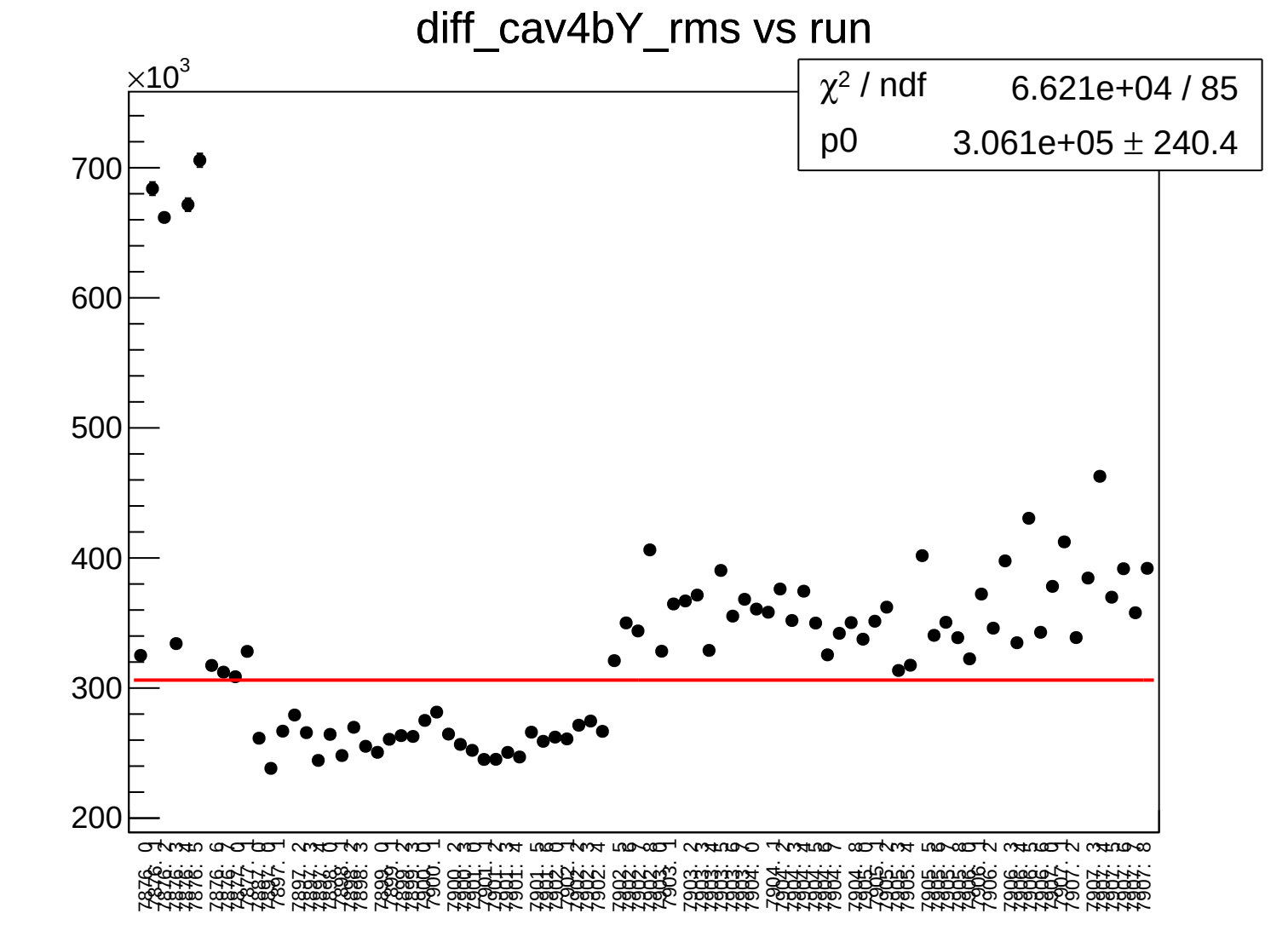

diff_bpm1p03aY_rms vs run
χ^2 / ndf 6.615e+04 / 85
p0 1584 ± 1.244
10000
8000
6000
4000
2000

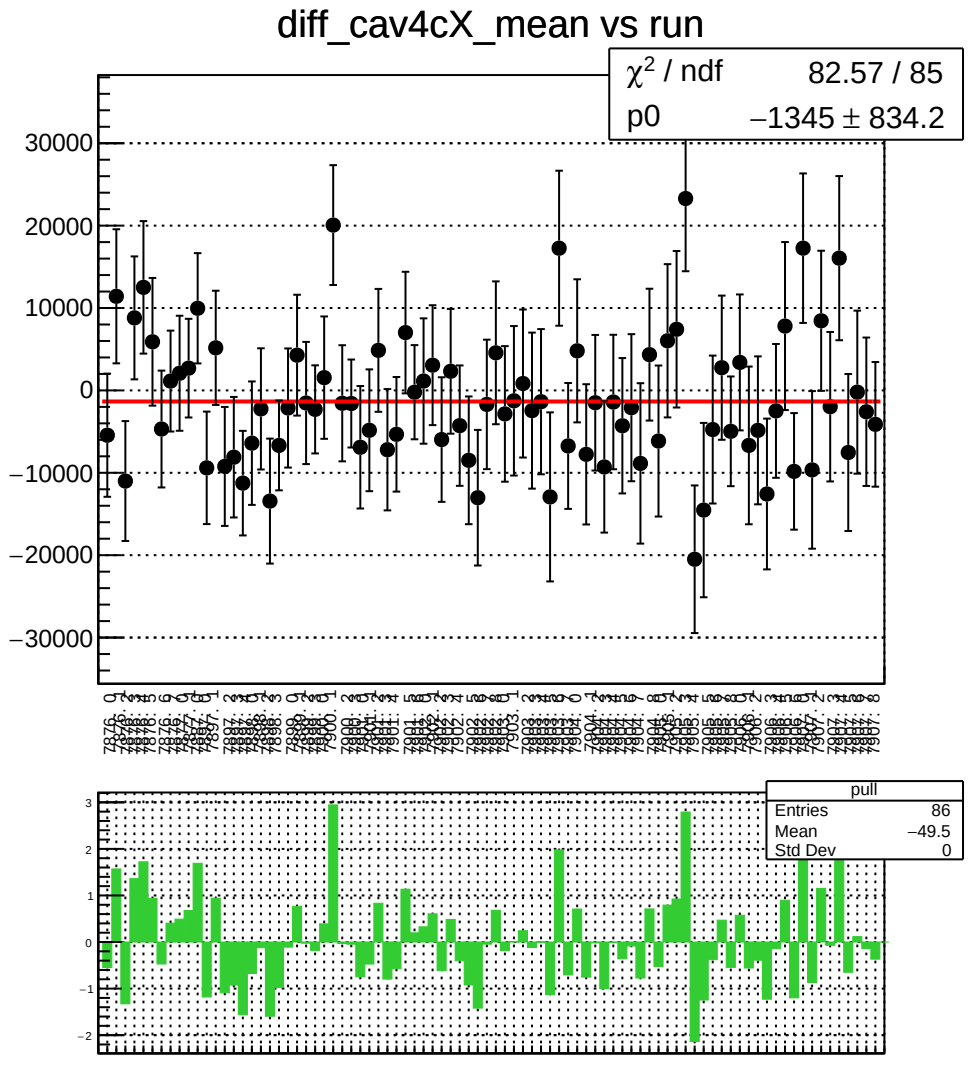

diff_cav4bX_mean vs run
χ² / ndf 81.79 / 85
p0 −3272 ± 2080
pull
Entries 86
Mean −82.83
Std Dev 0

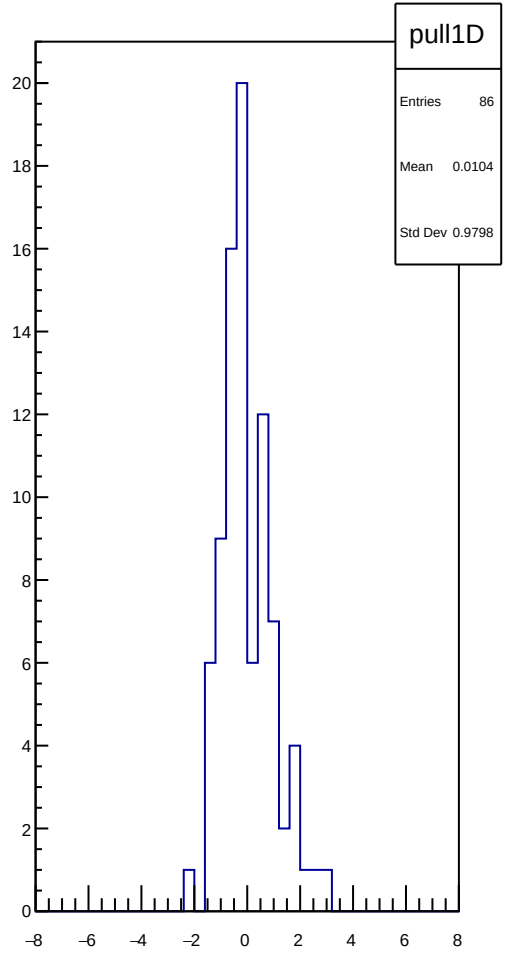

pull1D
Entries 86
Mean 0.006929
Std Dev 0.9752

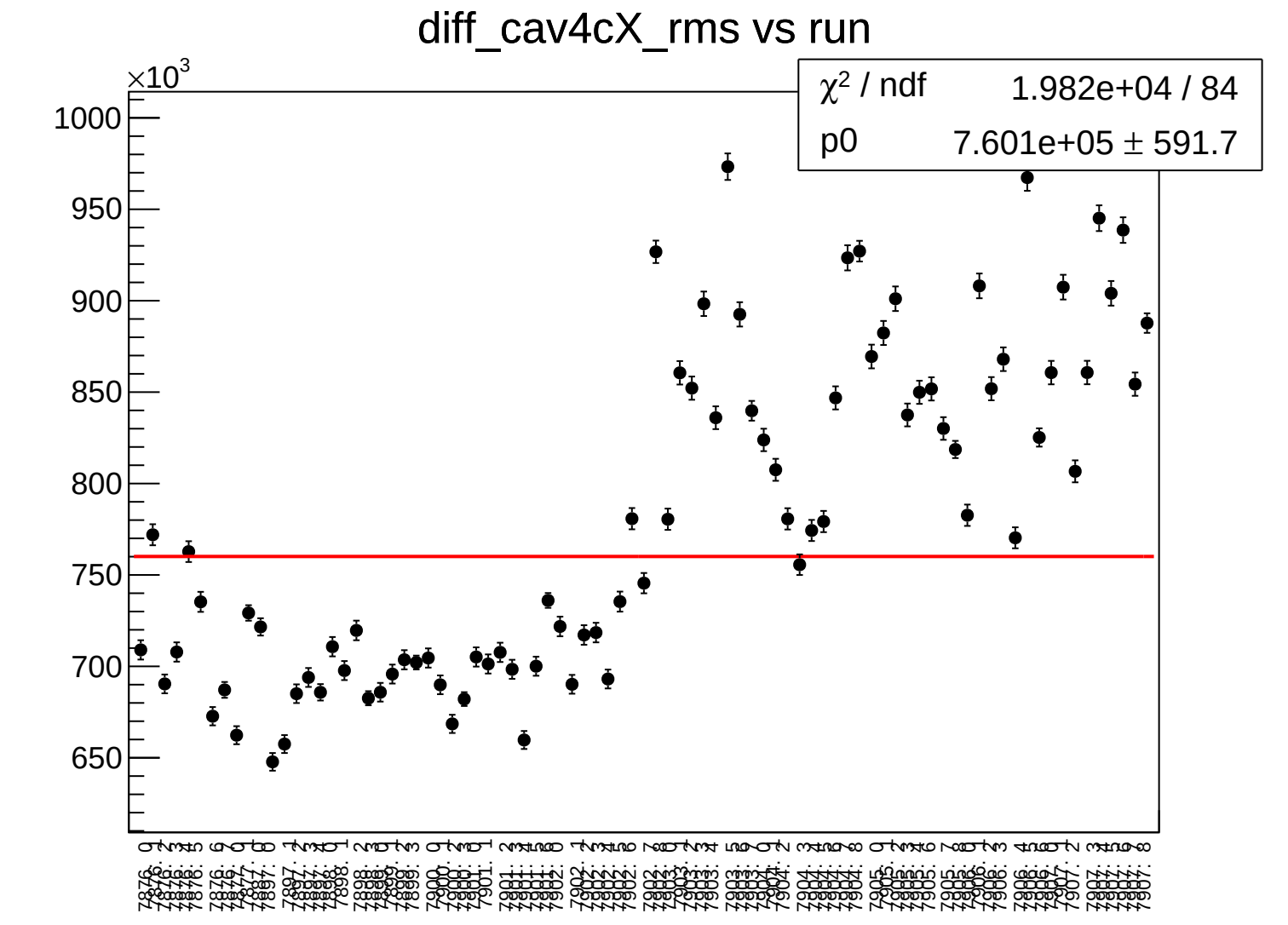

diff_cav4bY_mean vs run
χ² / ndf 68.26 / 85
p0 −184.8 ± 340
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −56.49
Std Dev 0
2
1
0
−1
−2
−3

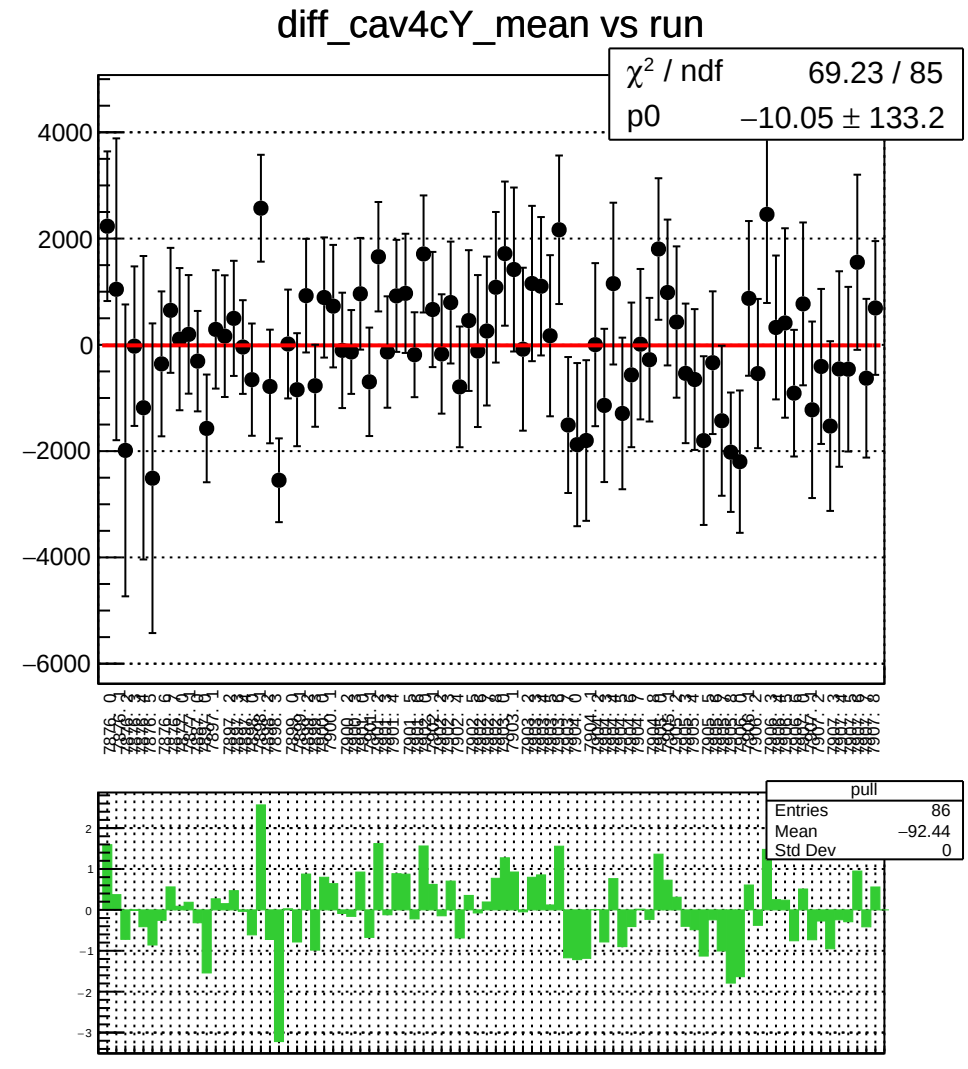

pull1D
Entries 86
Mean 0.01603
Std Dev 0.8907
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

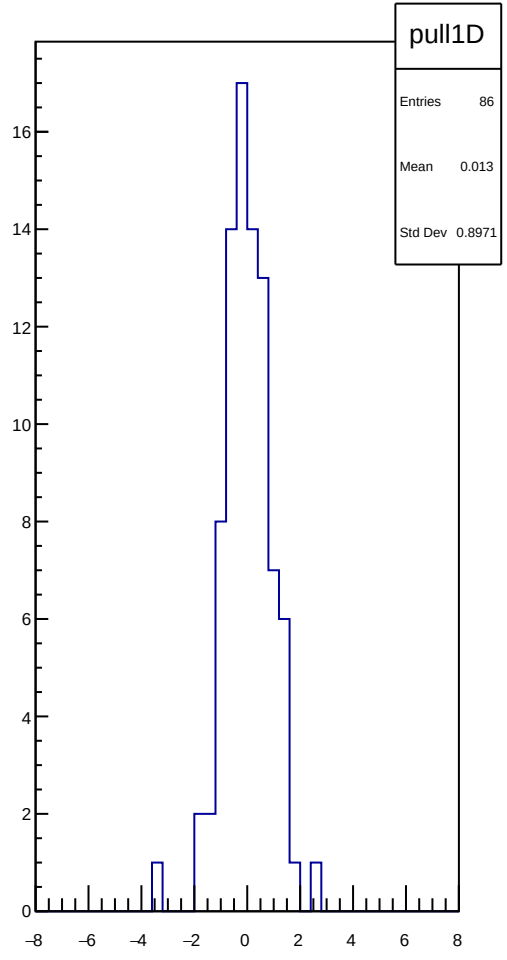

diff_cav4bY_rms vs run
×10^3
χ² / ndf 6.621e+04 / 85
p0 3.061e+05 ± 240.4
700
600
500
400
300
200

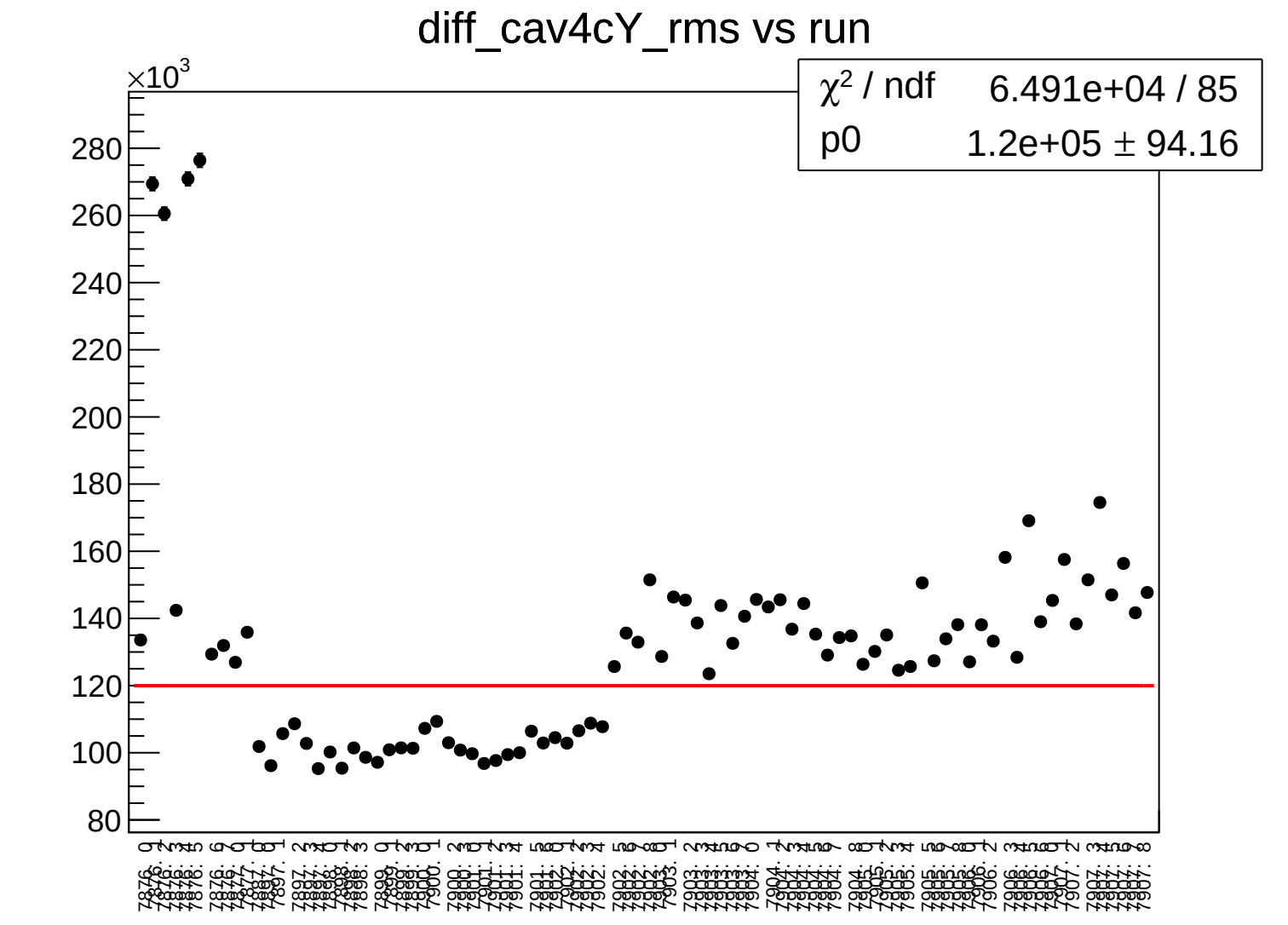

diff_cav4cX_mean vs run
χ^2 / ndf 82.57 / 85
p0 −1345 ± 834.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −49.5
Std Dev 0
3
2
1
0
−1
−2

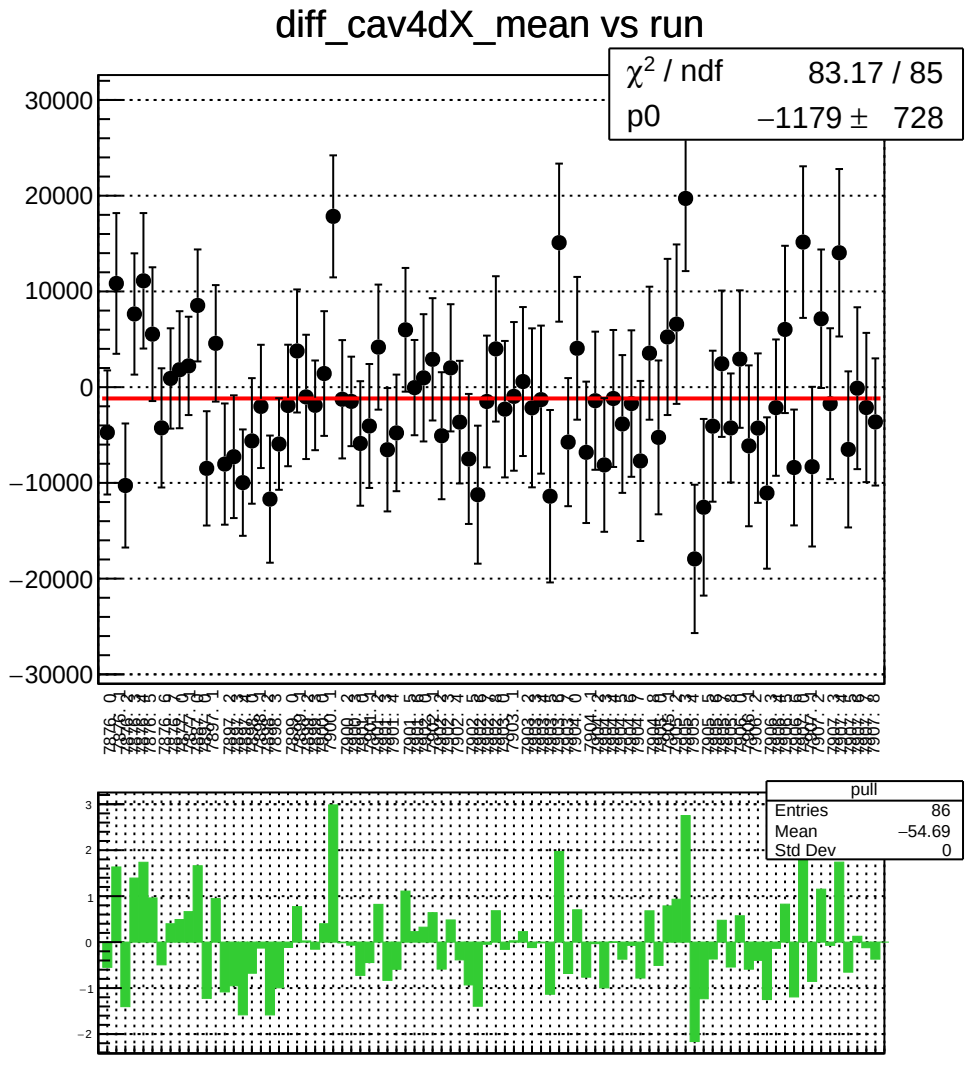

pull1D
Entries 86
Mean 0.0104
Std Dev 0.9798
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

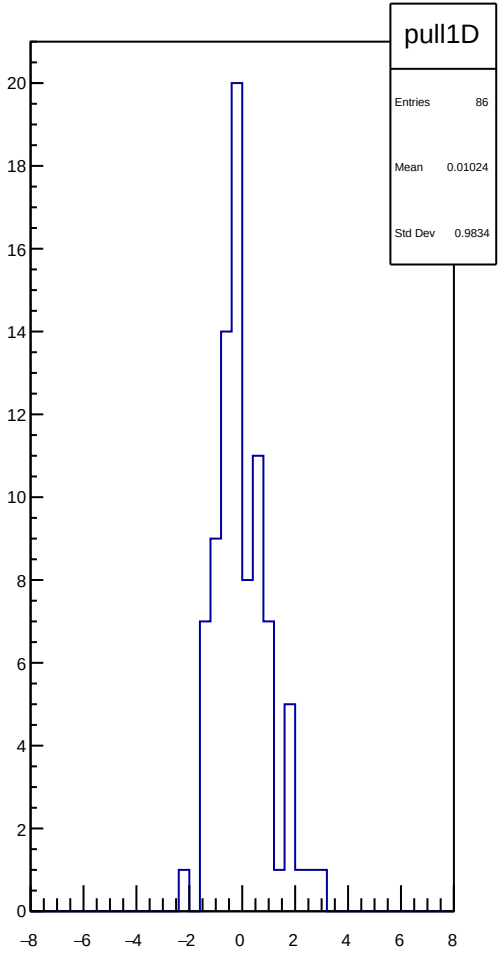

diff_cav4cX_rms vs run
×10^3
1000
950
900
850
800
750
700
650
χ² / ndf 1.982e+04 / 84
p0 7.601e+05 ± 591.7

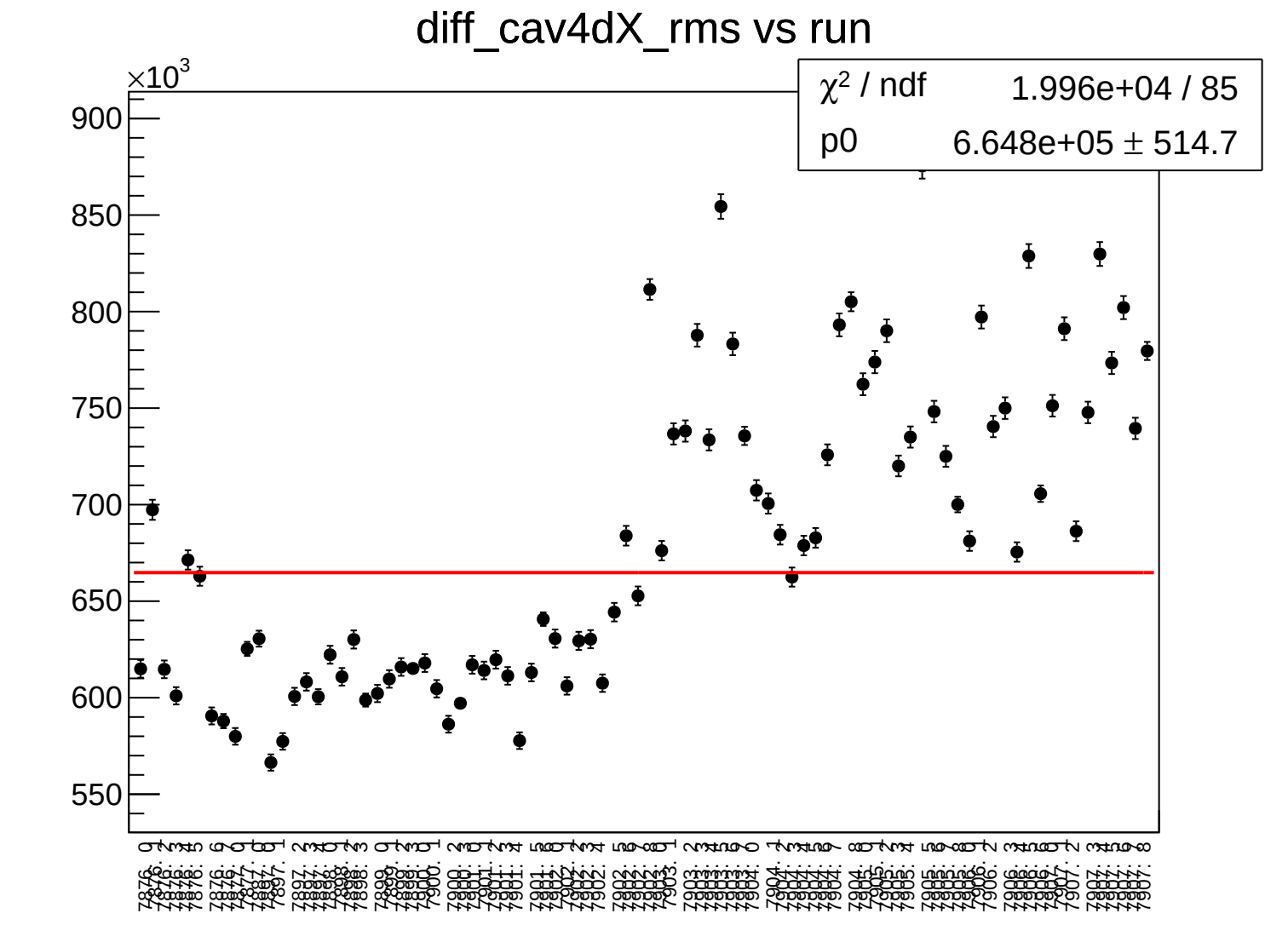

diff_cav4cY_mean vs run
χ^2 / ndf 69.23 / 85
p0 −10.05 ± 133.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −92.44
Std Dev 0
2
1
0
−1
−2
−3

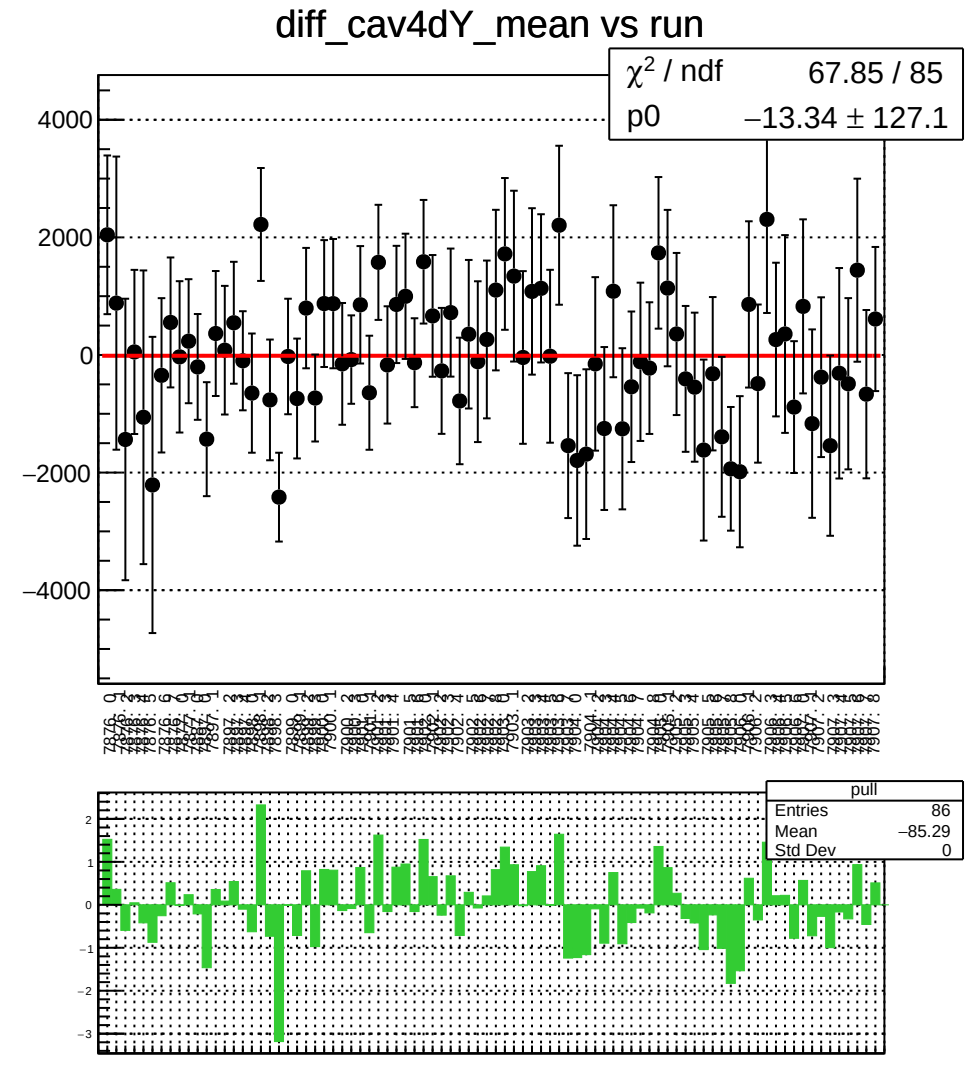

pull1D
Entries 86
Mean 0.013
Std Dev 0.8971
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

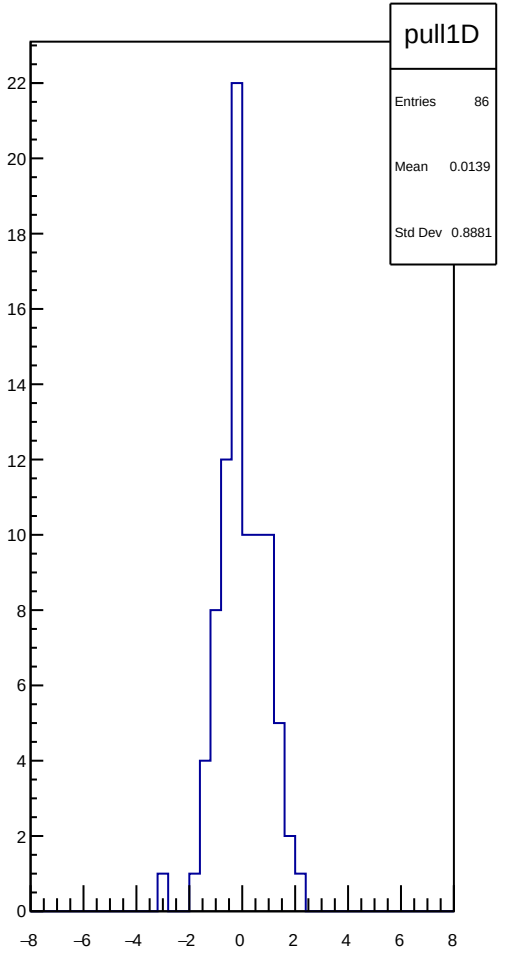

diff_cav4cY_rms vs run
χ^2 / ndf 6.491e+04 / 85
p0 1.2e+05 ± 94.16
×10^3
280
260
240
220
200
180
160
140
120
100
80

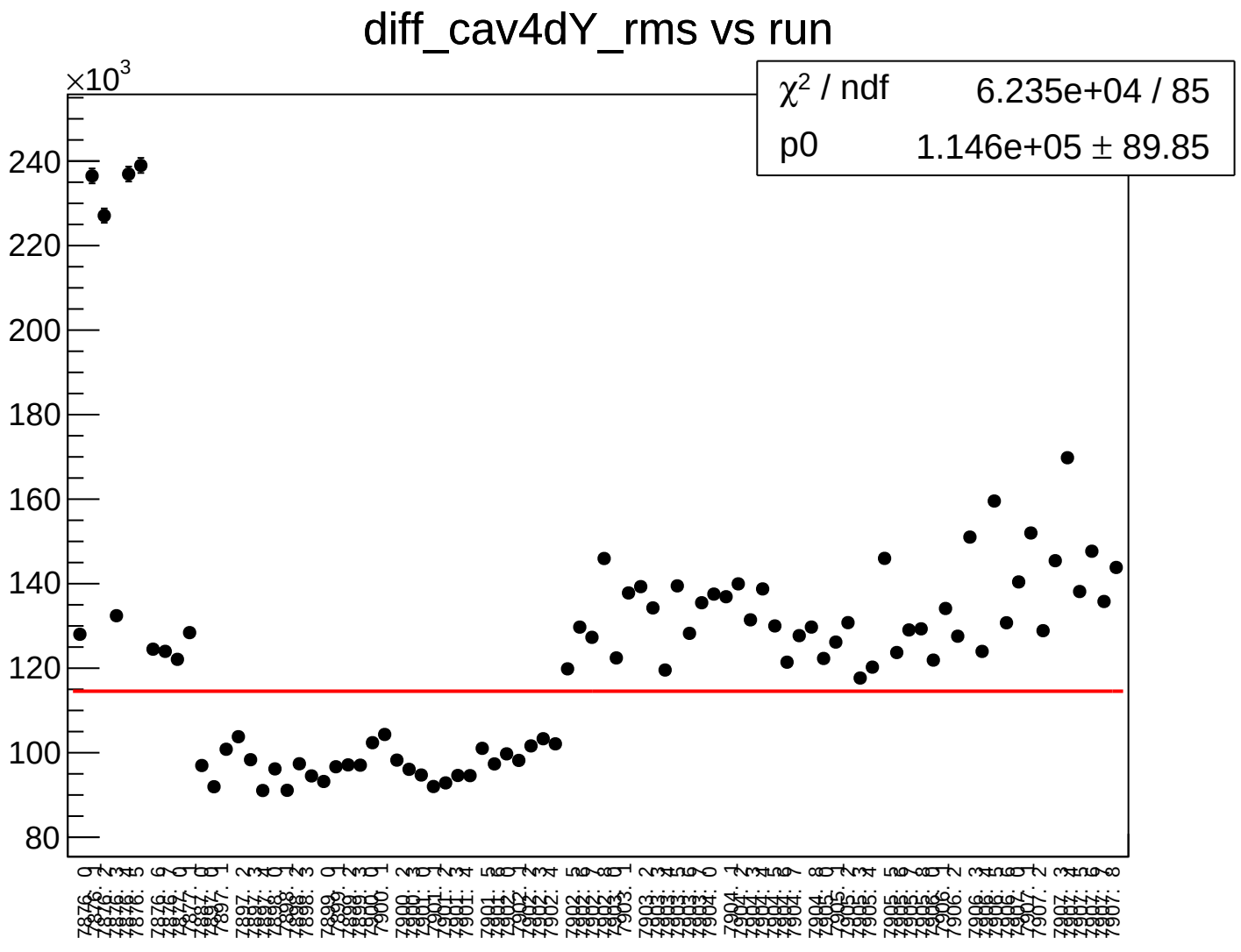

diff_cav4dX_mean vs run
χ² / ndf 83.17 / 85
p0 −1179 ± 728
pull
Entries 86
Mean −54.69
Std Dev 0

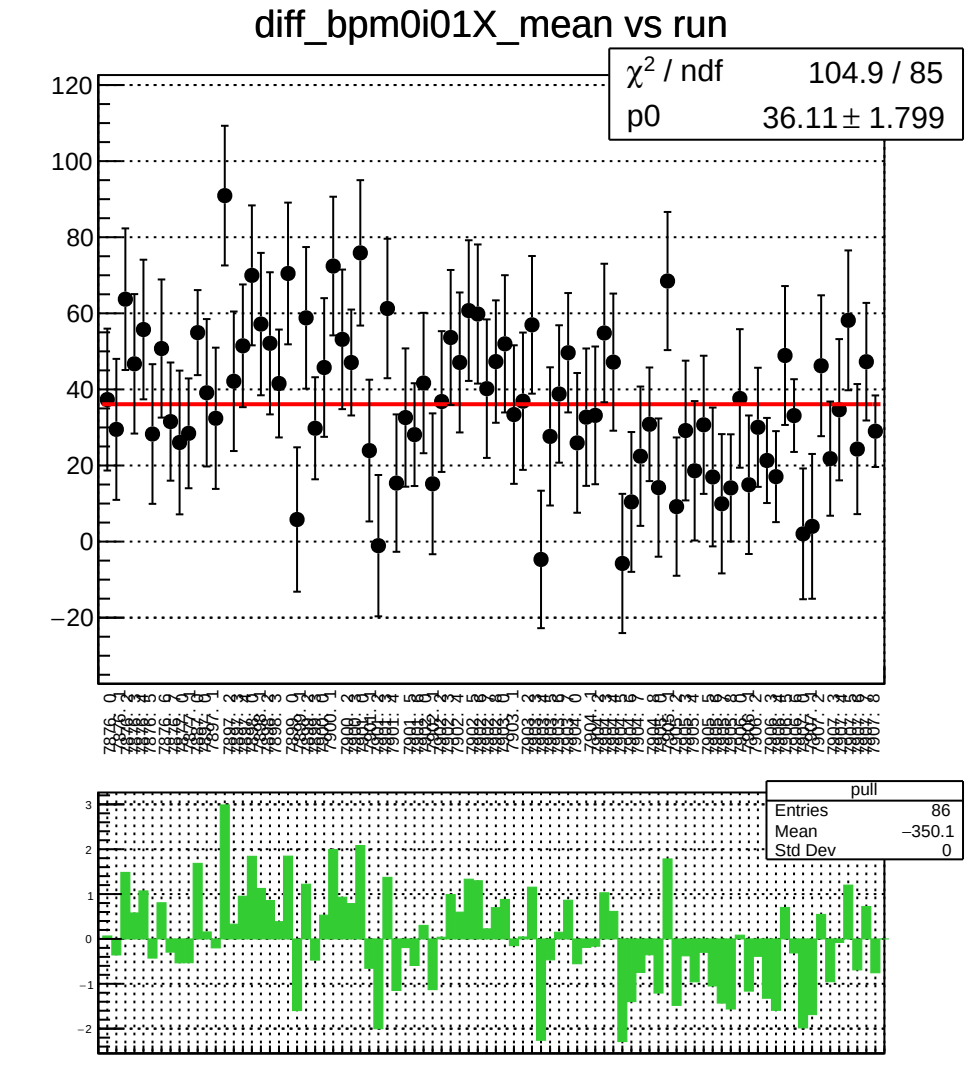

pull1D
Entries 86
Mean 0.01024
Std Dev 0.9834

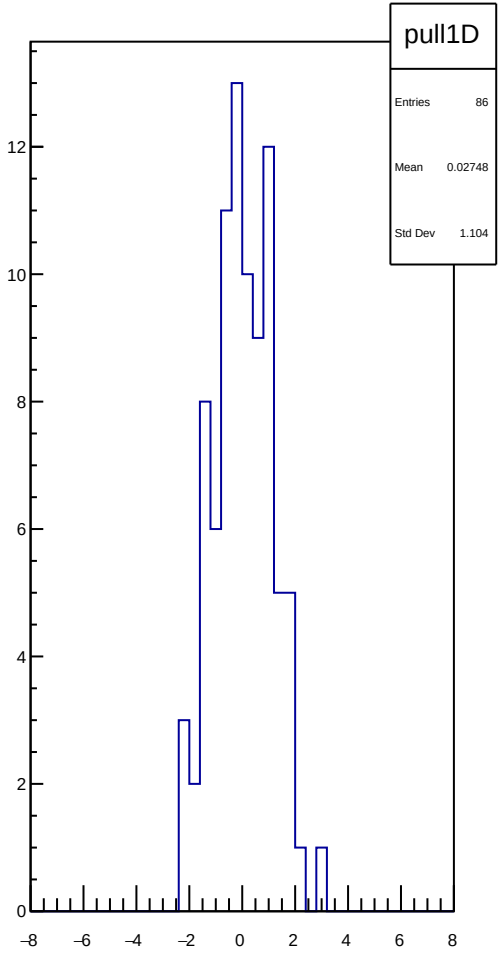

diff_cav4dX_rms vs run
×10^3
900
850
800
750
700
650
600
550
χ² / ndf 1.996e+04 / 85
p0 6.648e+05 ± 514.7

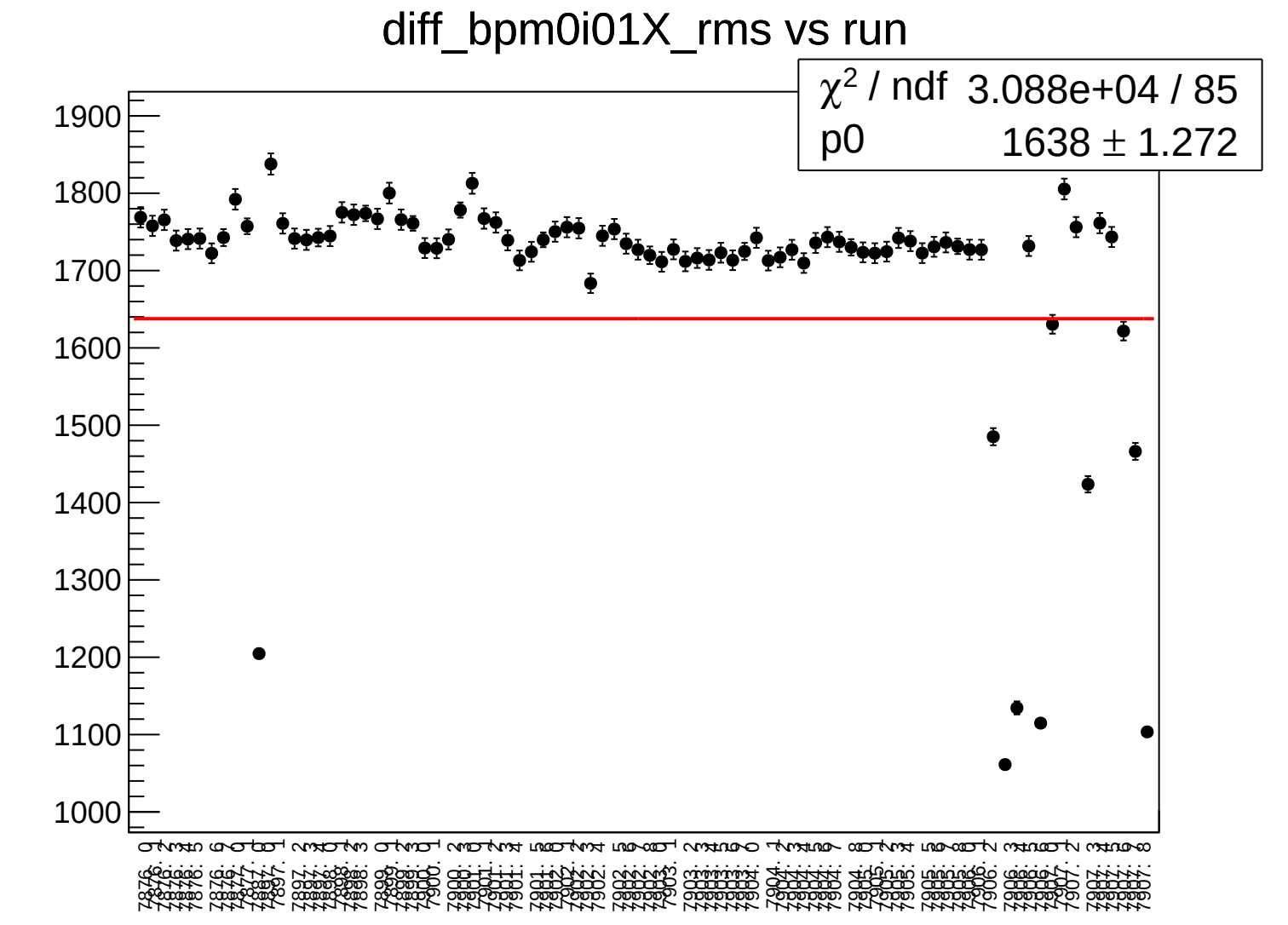

diff_cav4dY_mean vs run
χ² / ndf 67.85 / 85
p0 −13.34 ± 127.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −85.29
Std Dev 0
2
1
0
−1
−2
−3

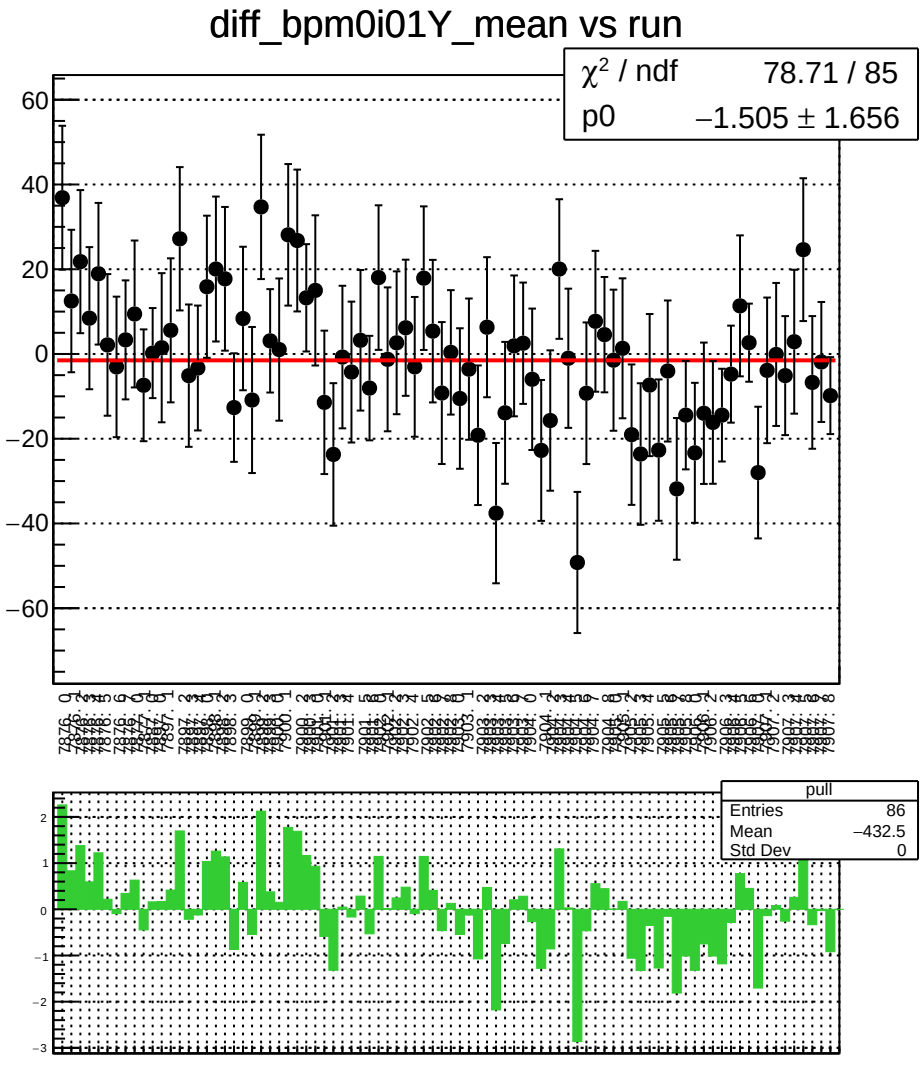

pull1D
Entries 86
Mean 0.0139
Std Dev 0.8881
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

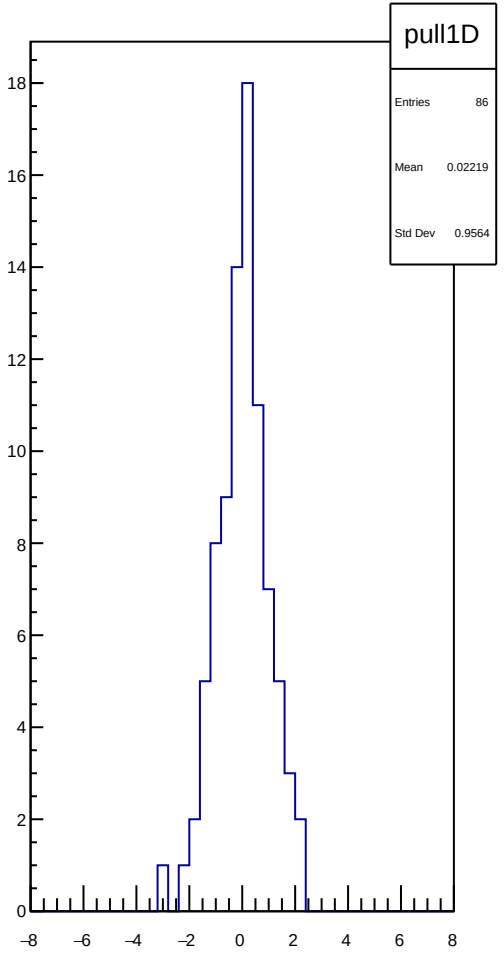

diff_cav4dY_rms vs run
×10^3
χ² / ndf 6.235e+04 / 85
p0 1.146e+05 ± 89.85
240
220
200
180
160
140
120
100
80

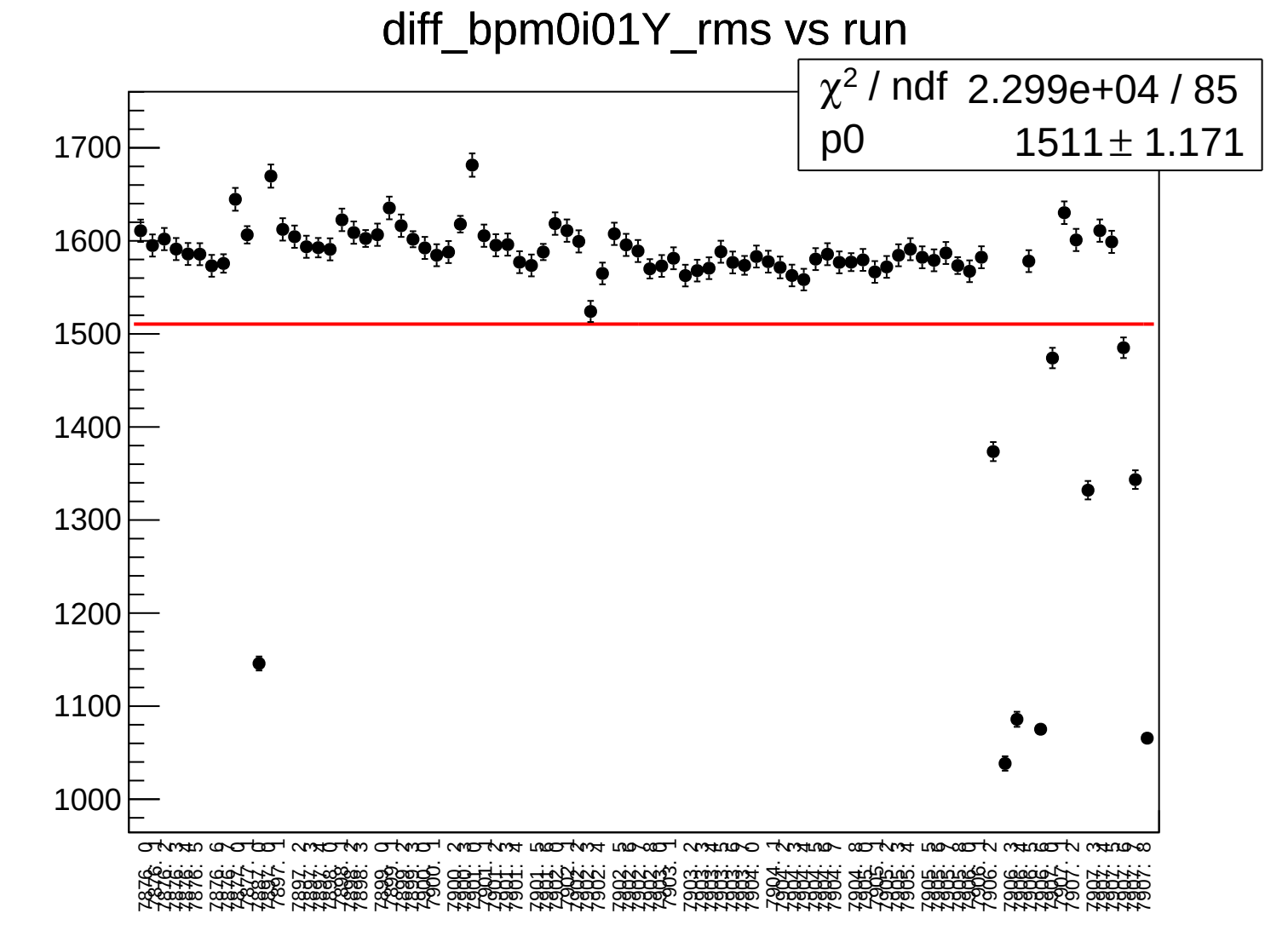

diff_bpm0i01X_mean vs run
χ^2 / ndf 104.9 / 85
p0 36.11 ± 1.799
pull
Entries 86
Mean −350.1
Std Dev 0

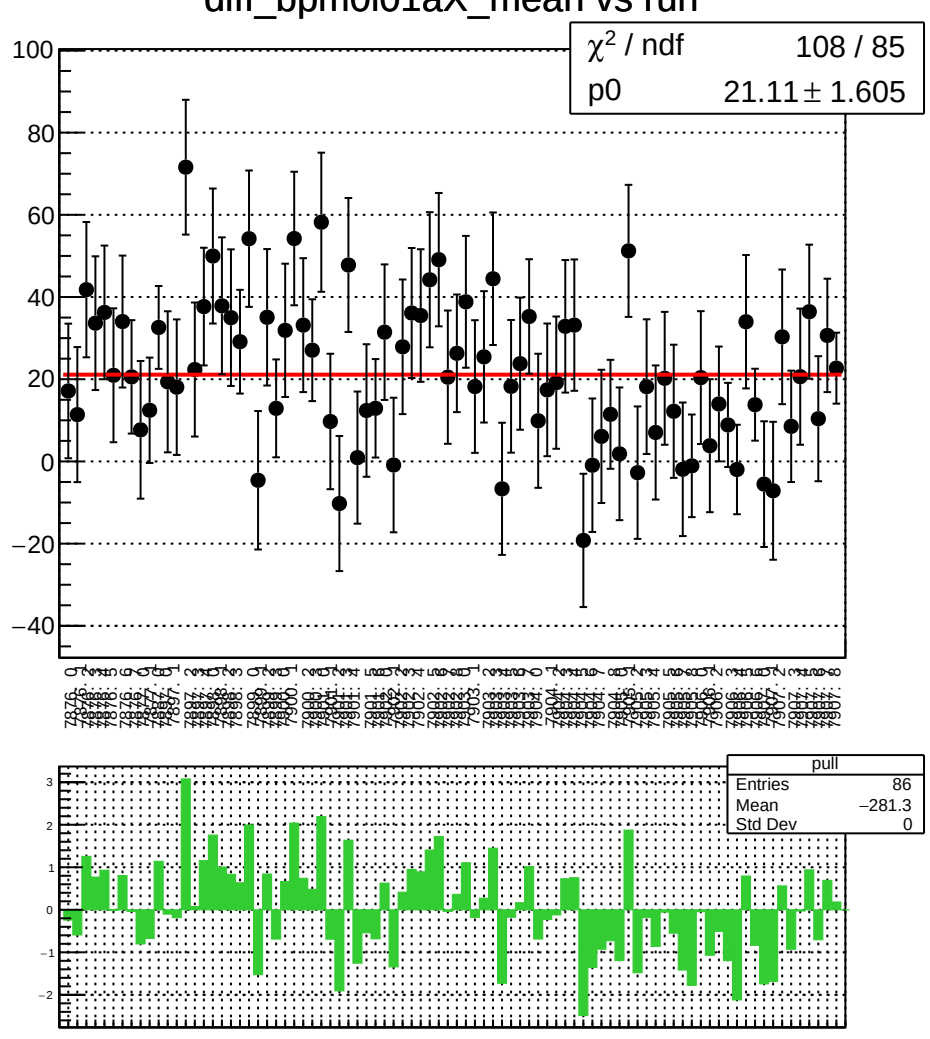

pull1D
Entries 86
Mean 0.02748
Std Dev 1.104

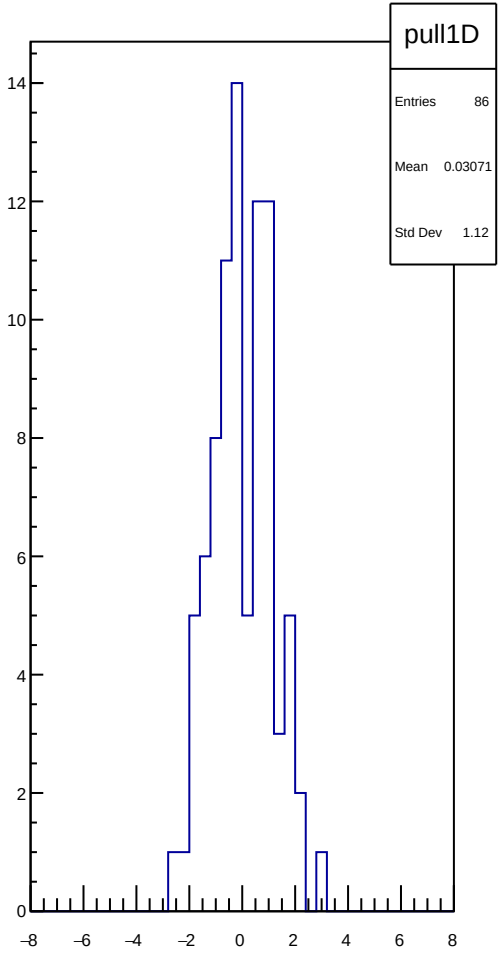

diff_bpm0i01X_rms vs run
χ^2 / ndf 3.088e+04 / 85
p0 1638 ± 1.272
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

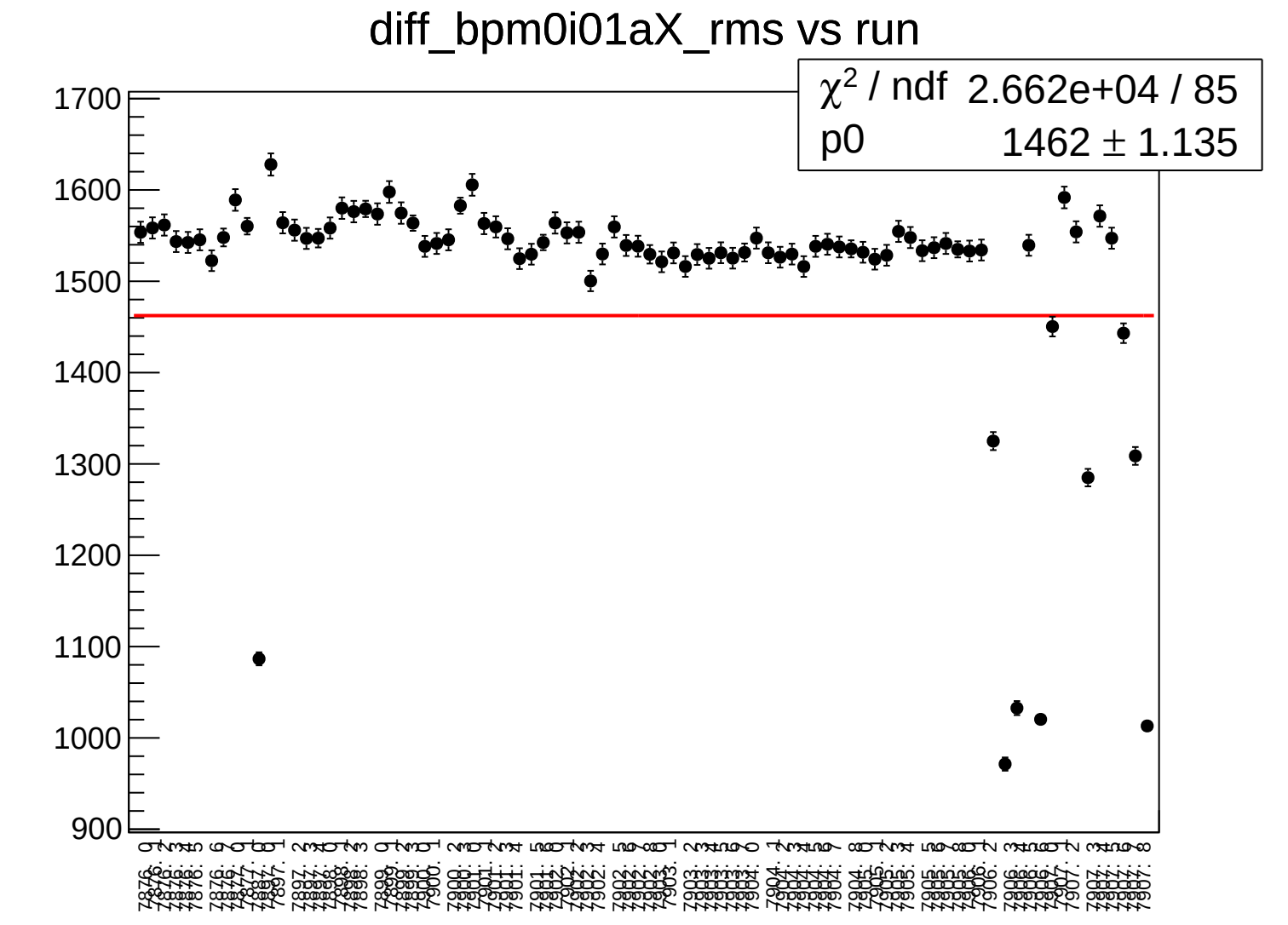

diff_bpm0i01Y_mean vs run
χ² / ndf 78.71 / 85
p0 −1.505 ± 1.656
pull
Entries 86
Mean −432.5
Std Dev 0

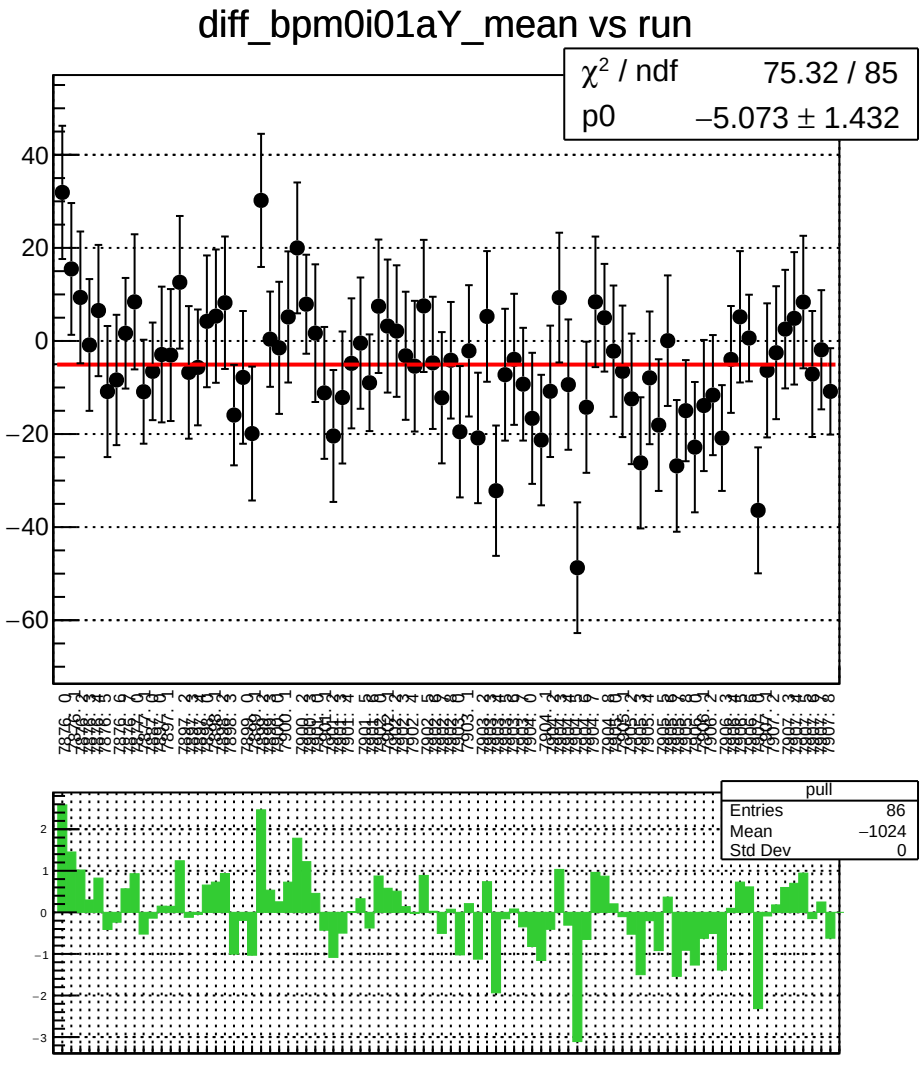

pull1D
Entries 86
Mean 0.02219
Std Dev 0.9564

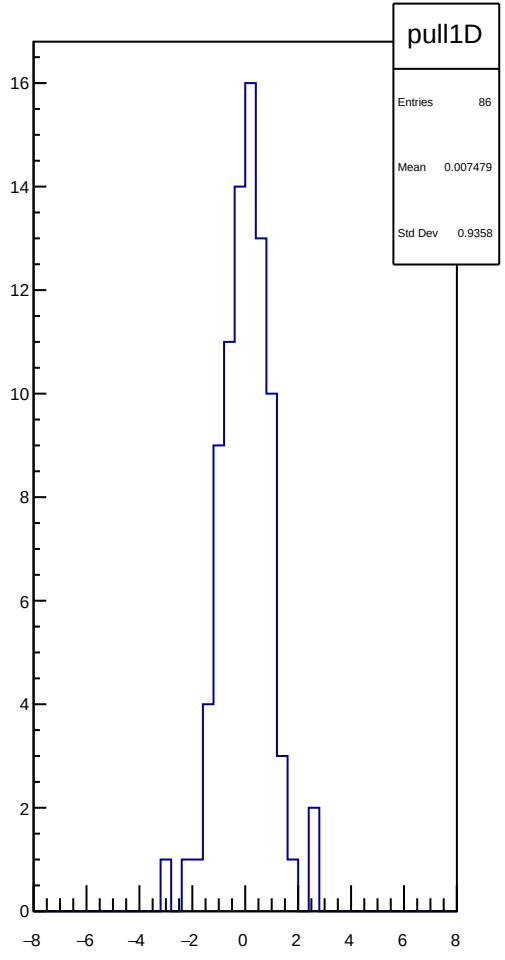

diff_bpm0i01Y_rms vs run
χ² / ndf 2.299e+04 / 85
p0 1511 ± 1.171
1700
1600
1500
1400
1300
1200
1100
1000

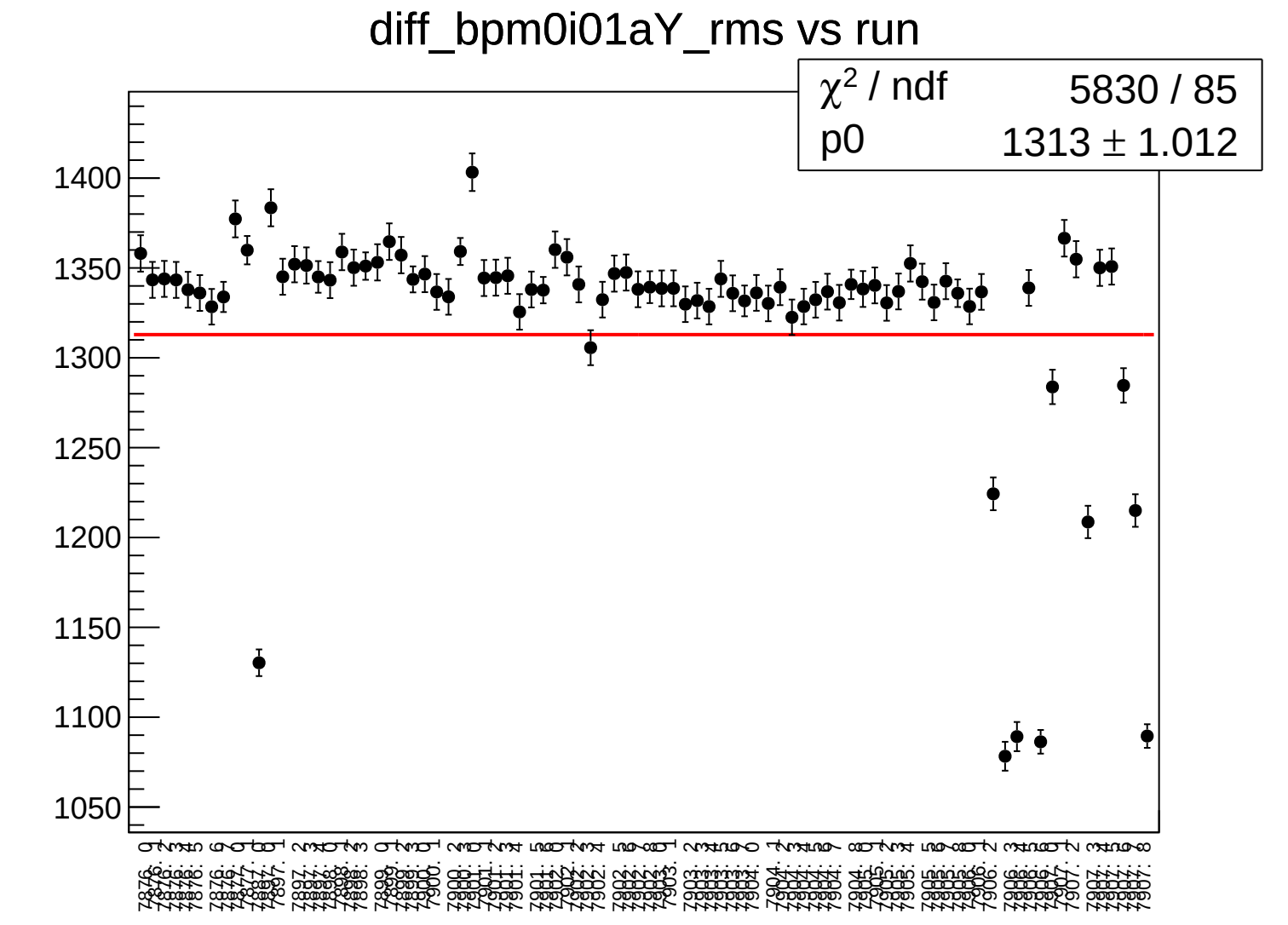

diff_bpm0i01aX_mean vs run
χ^2 / ndf 108 / 85
p0 21.11 ± 1.605
pull
Entries 86
Mean −281.3
Std Dev 0

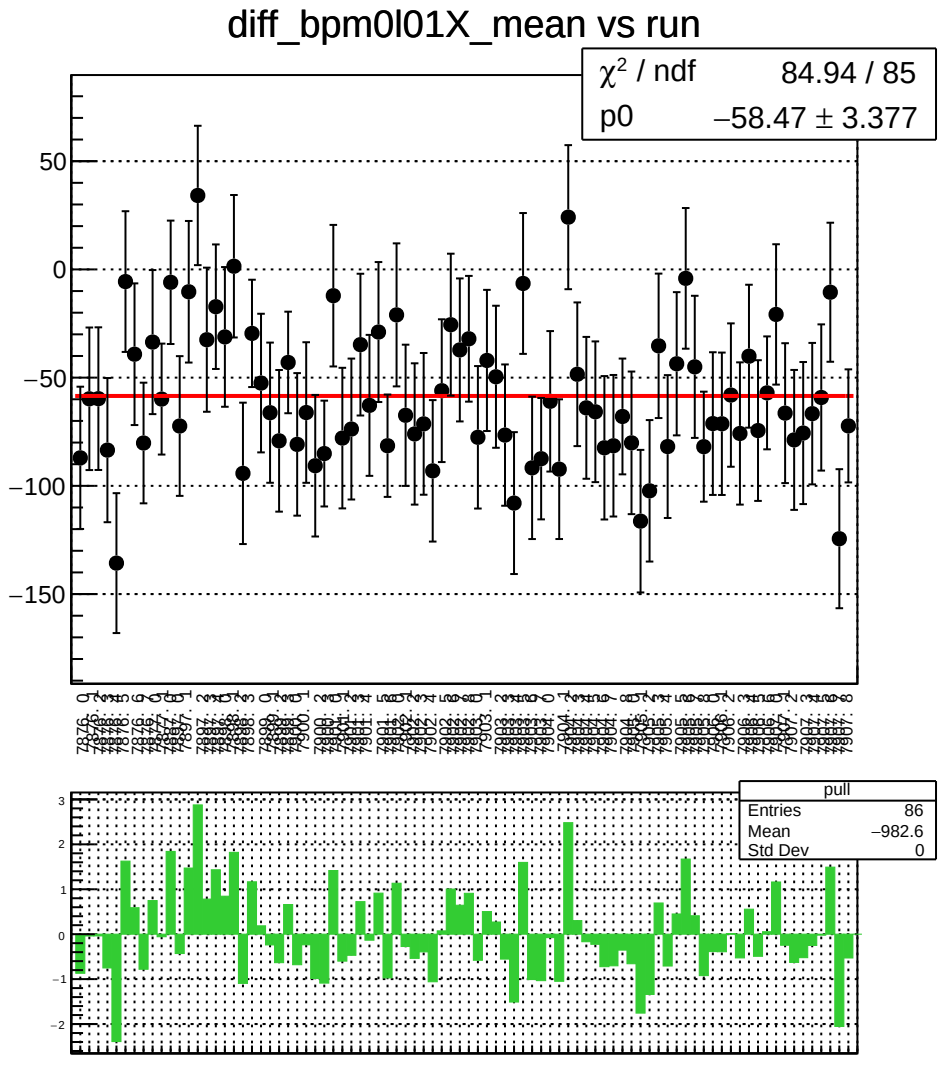

pull1D
Entries 86
Mean 0.03071
Std Dev 1.12

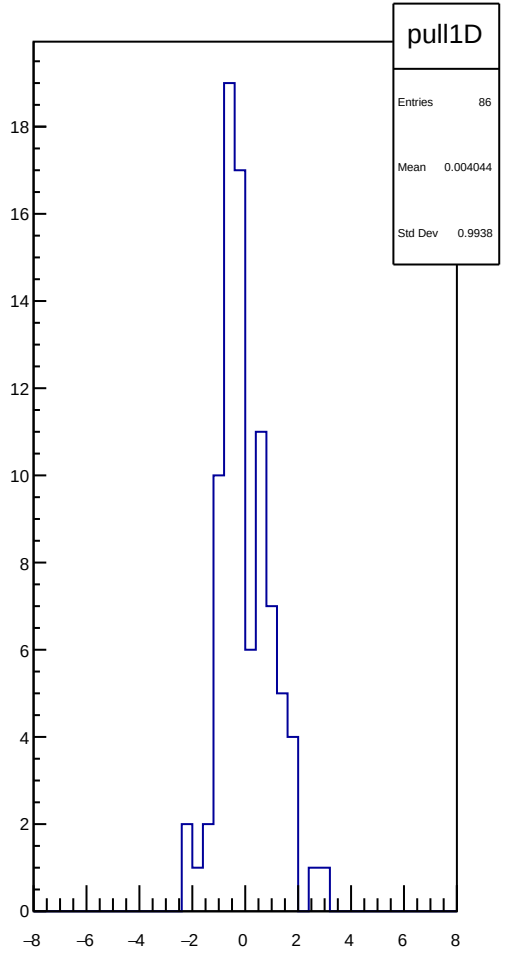

diff_bpm0i01aX_rms vs run
χ² / ndf 2.662e+04 / 85
p0 1462 ± 1.135
1700
1600
1500
1400
1300
1200
1100
1000
900

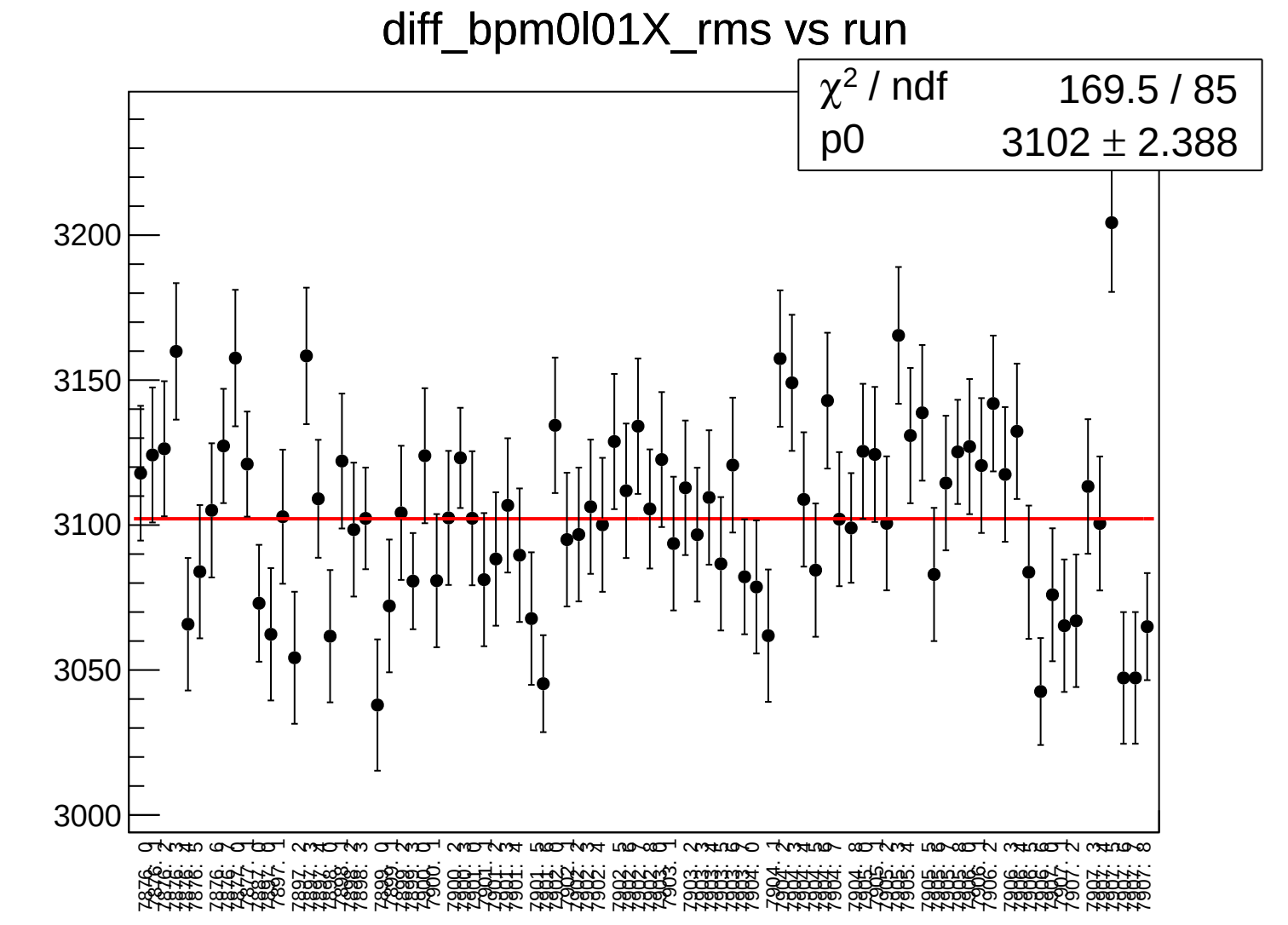

diff_bpm0i01aY_mean vs run
χ^2 / ndf 75.32 / 85
p0 −5.073 ± 1.432
pull
Entries 86
Mean −1024
Std Dev 0

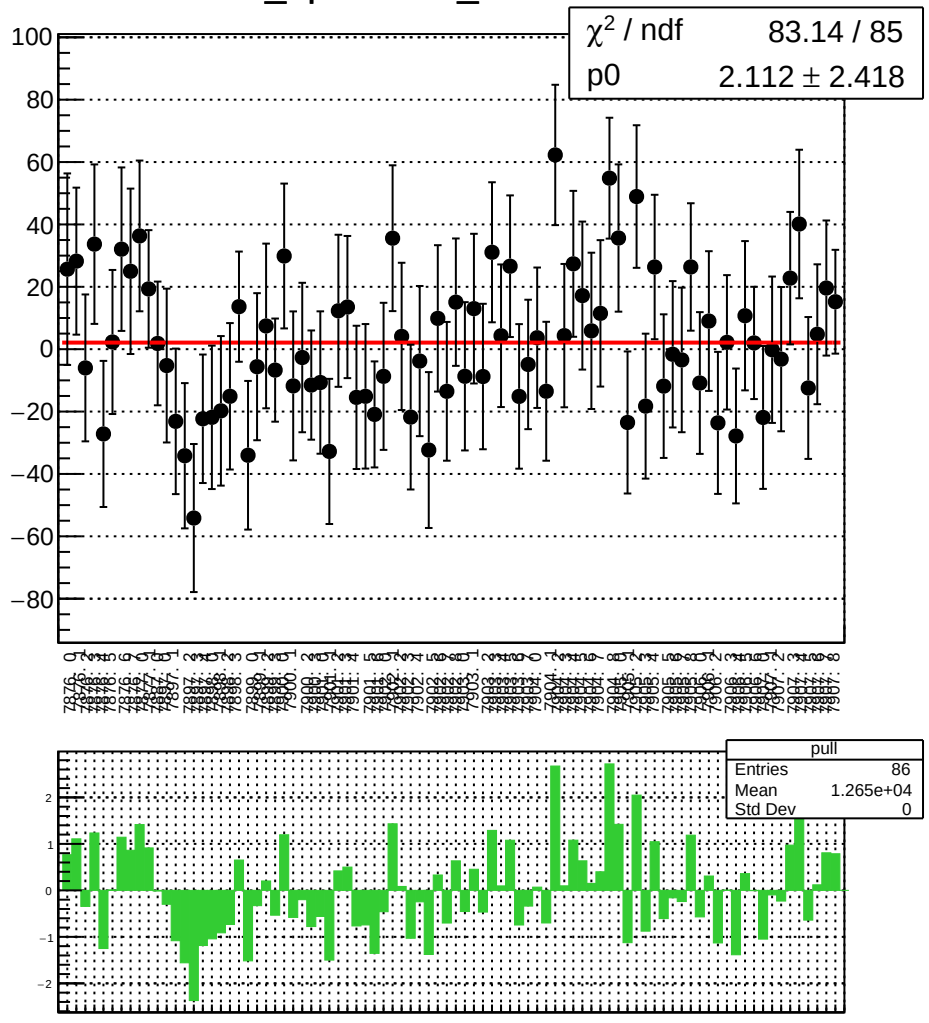

pull1D
Entries 86
Mean 0.007479
Std Dev 0.9358

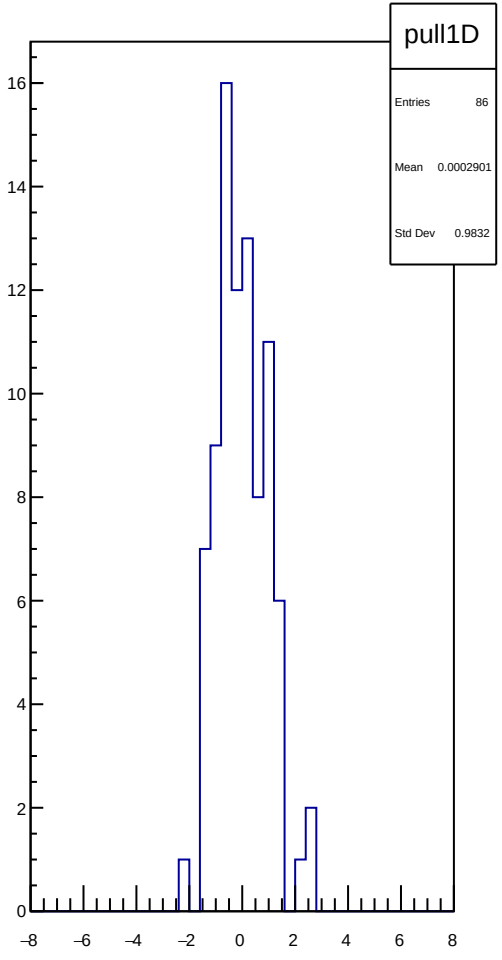

diff_bpm0i01aY_rms vs run
χ^2 / ndf 5830 / 85
p0 1313 ± 1.012
1400
1350
1300
1250
1200
1150
1100
1050

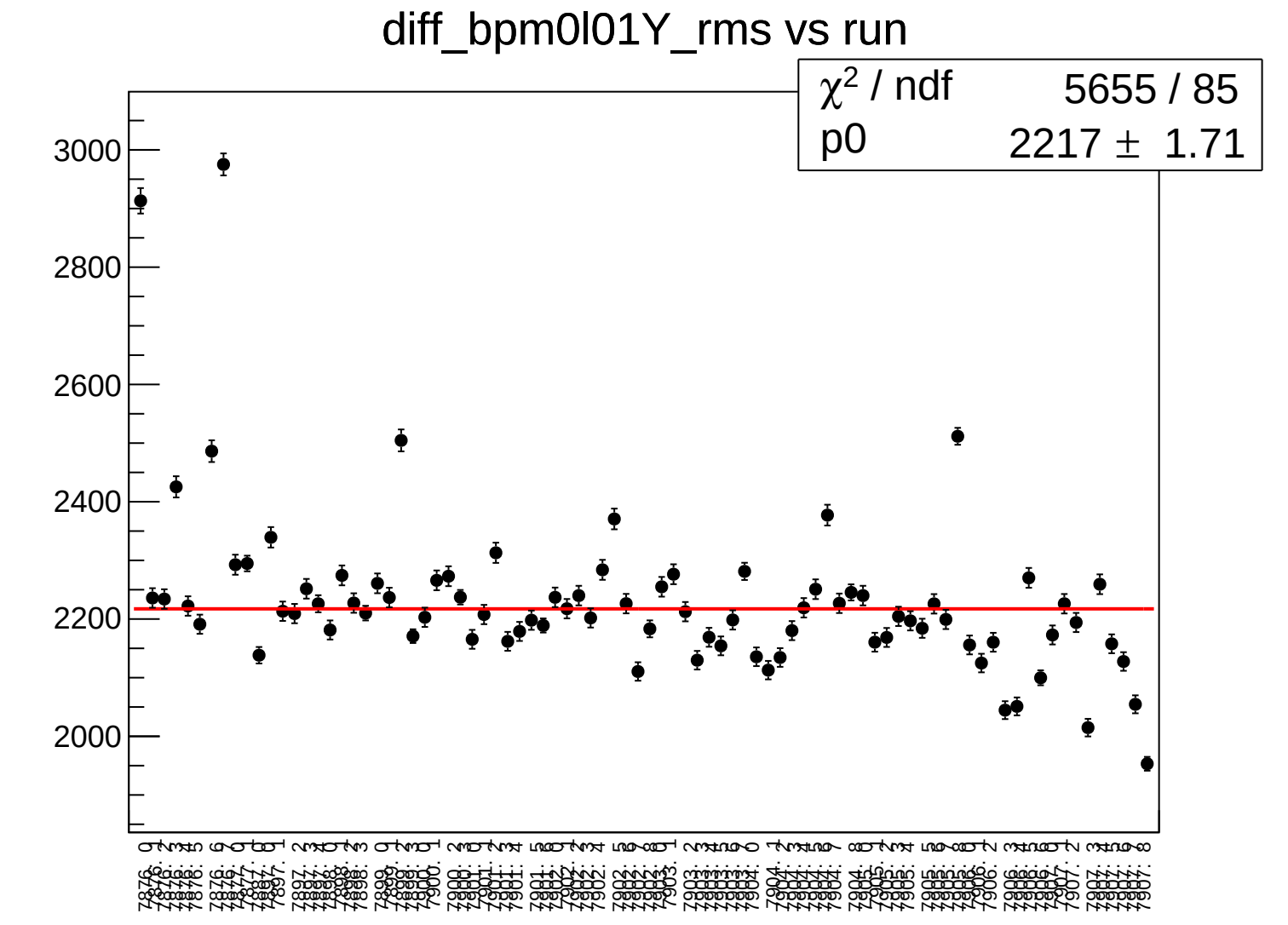

diff_bpm0l01X_mean vs run
χ² / ndf 84.94 / 85
p0 −58.47 ± 3.377
50
0
−50
−100
−150
pull
Entries 86
Mean −982.6
Std Dev 0
3
2
1
0
−1
−2

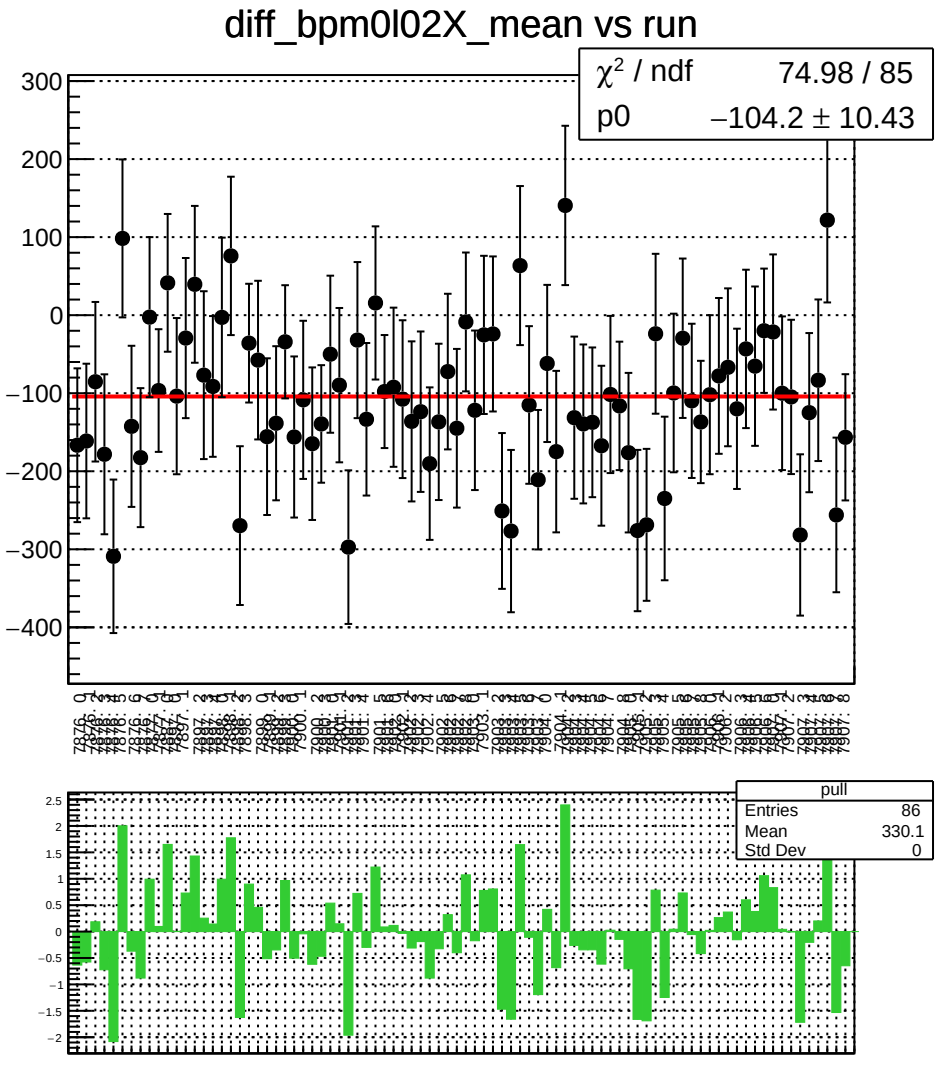

pull1D
Entries 86
Mean 0.004044
Std Dev 0.9938
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

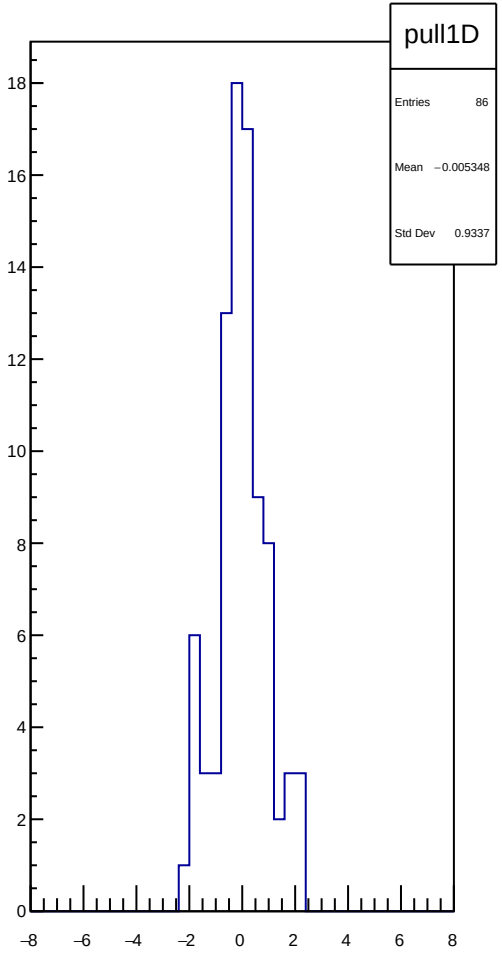

diff_bpm0l01X_rms vs run
χ² / ndf 169.5 / 85
p0 3102 ± 2.388
3200
3150
3100
3050
3000

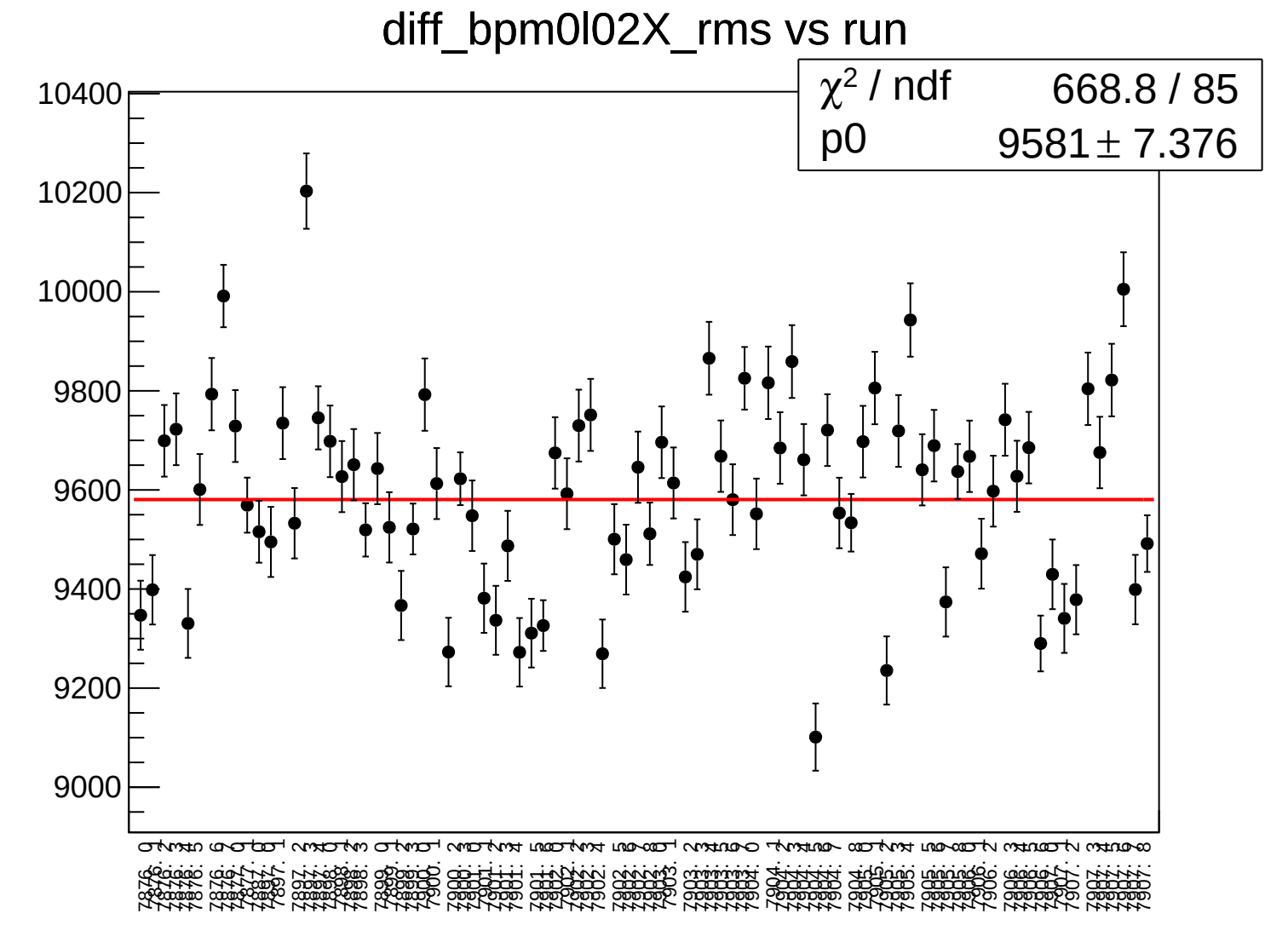

diff_bpm0l01Y_mean vs run
χ^2 / ndf 83.14 / 85
p0 2.112 ± 2.418
pull
Entries 86
Mean 1.265e+04
Std Dev 0

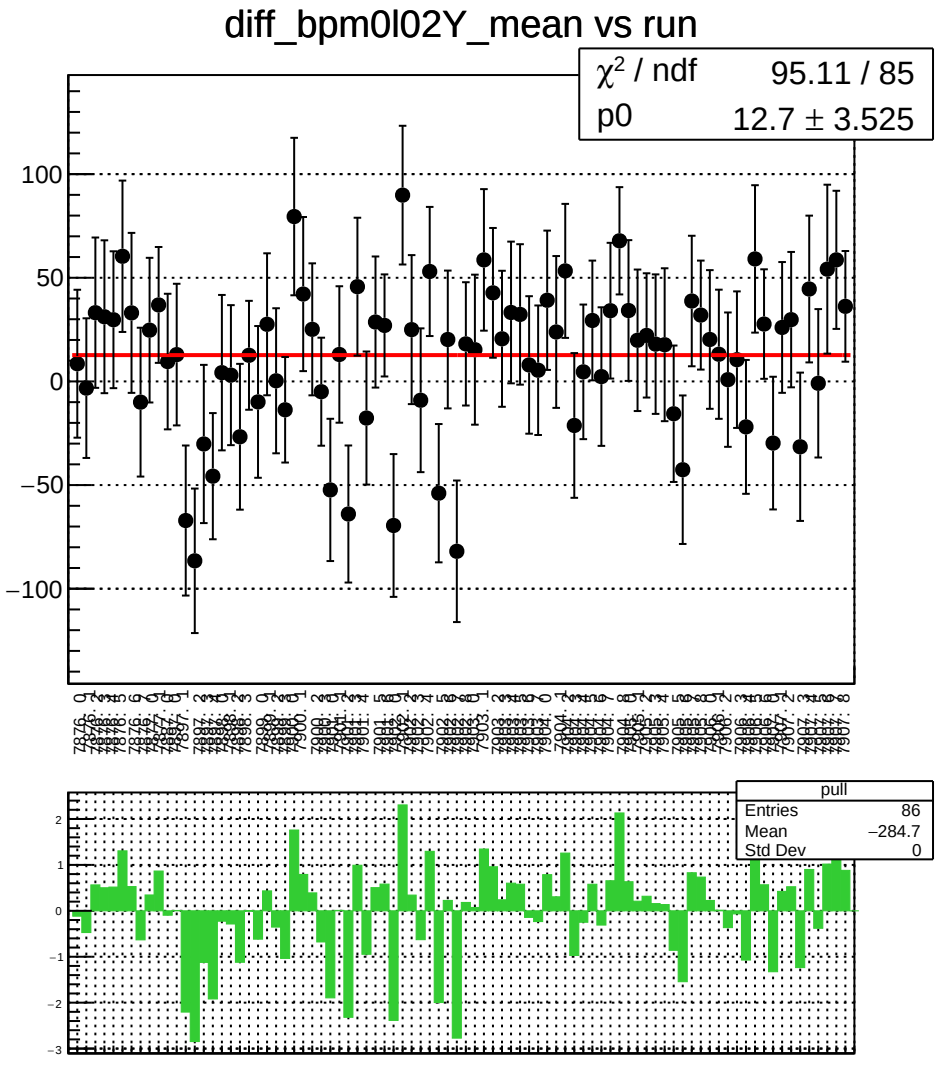

pull1D
Entries 86
Mean 0.0002901
Std Dev 0.9832

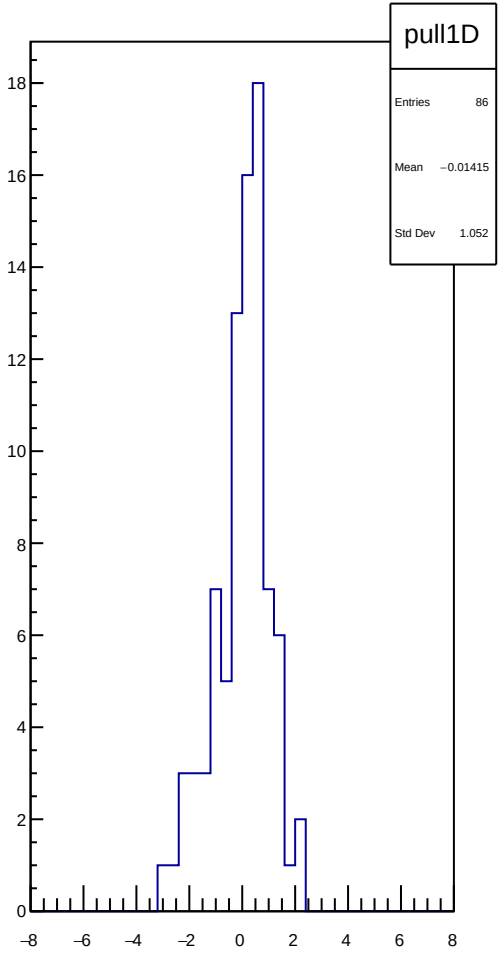

diff_bpm0l01Y_rms vs run
χ² / ndf 5655 / 85
p0 2217 ± 1.71
3000
2800
2600
2400
2200
2000

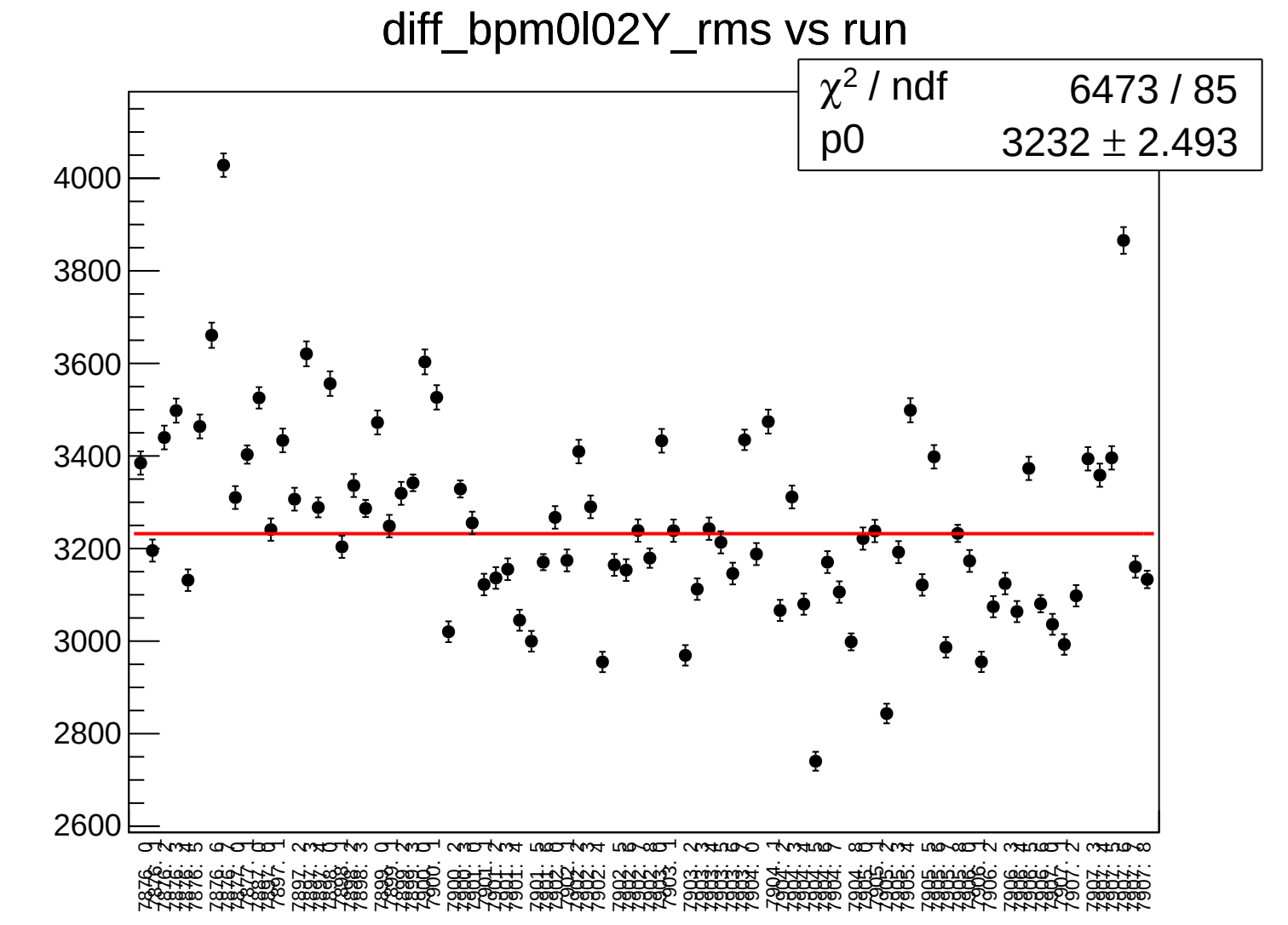

diff_bpm0l02X_mean vs run
χ^2 / ndf 74.98 / 85
p0 −104.2 ± 10.43
pull
Entries 86
Mean 330.1
Std Dev 0

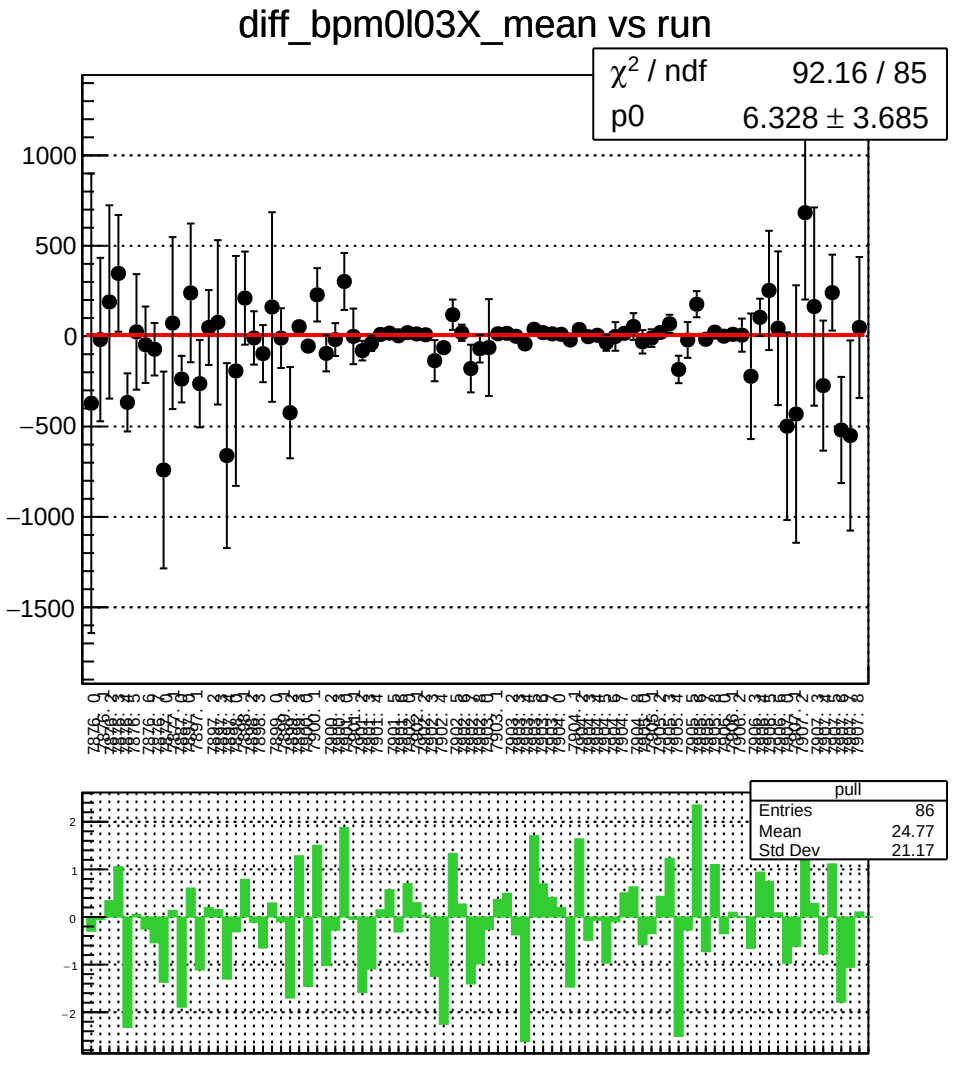

pull1D
Entries 86
Mean −0.005348
Std Dev 0.9337

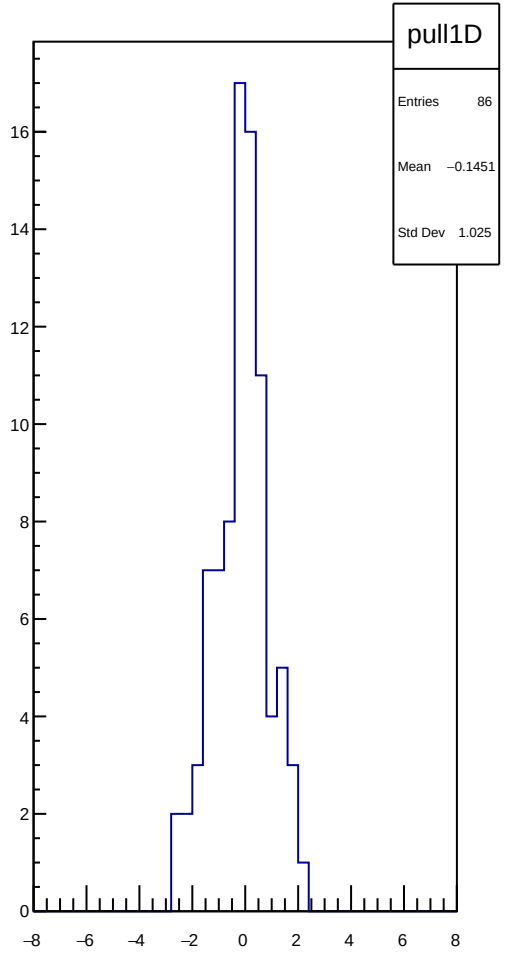

diff_bpm0l02X_rms vs run
χ² / ndf 668.8 / 85
p0 9581 ± 7.376
10400
10200
10000
9800
9600
9400
9200
9000

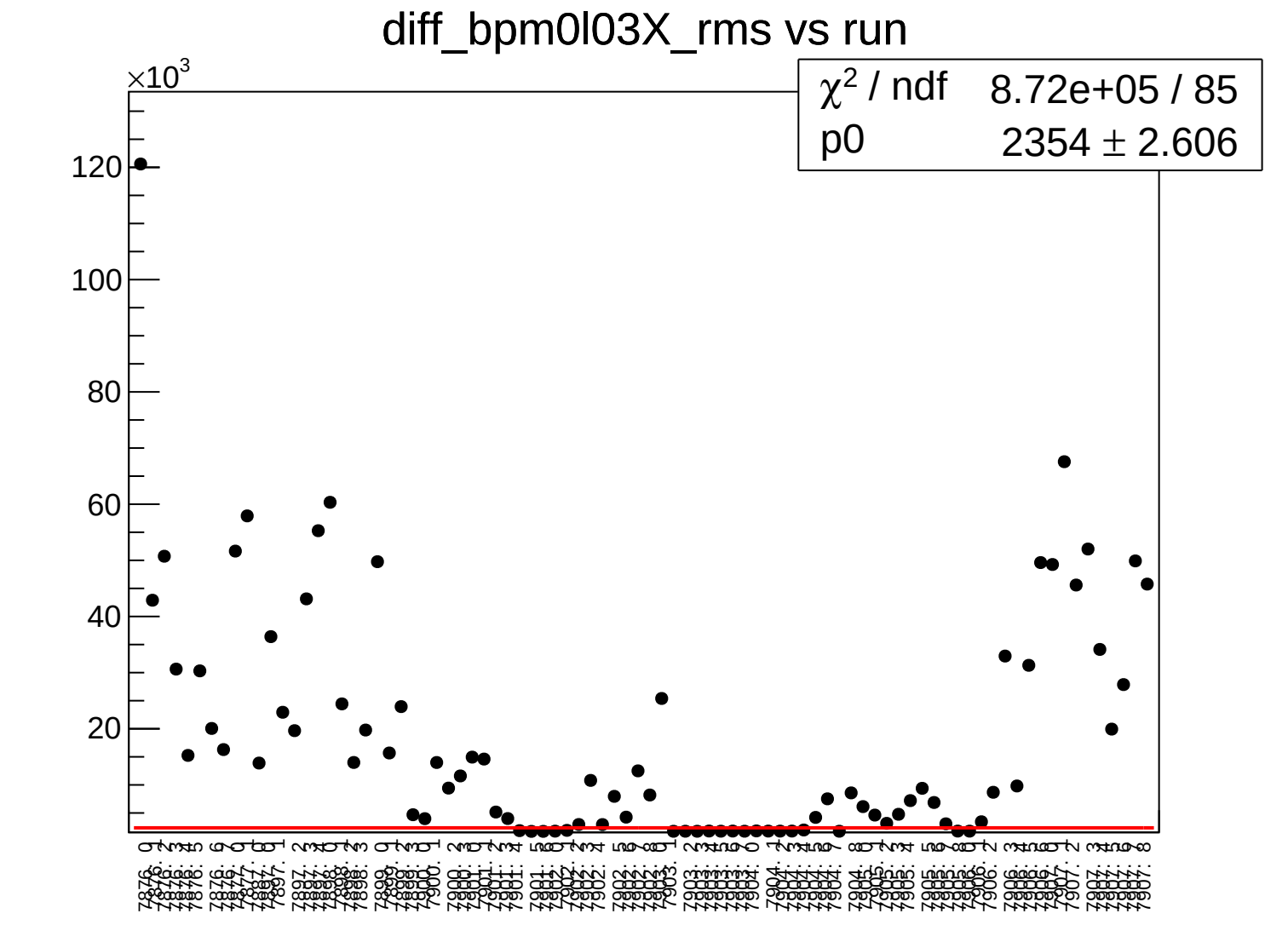

diff_bpm0l02Y_mean vs run
χ² / ndf 95.11 / 85
p0 12.7 ± 3.525
pull
Entries 86
Mean −284.7
Std Dev 0

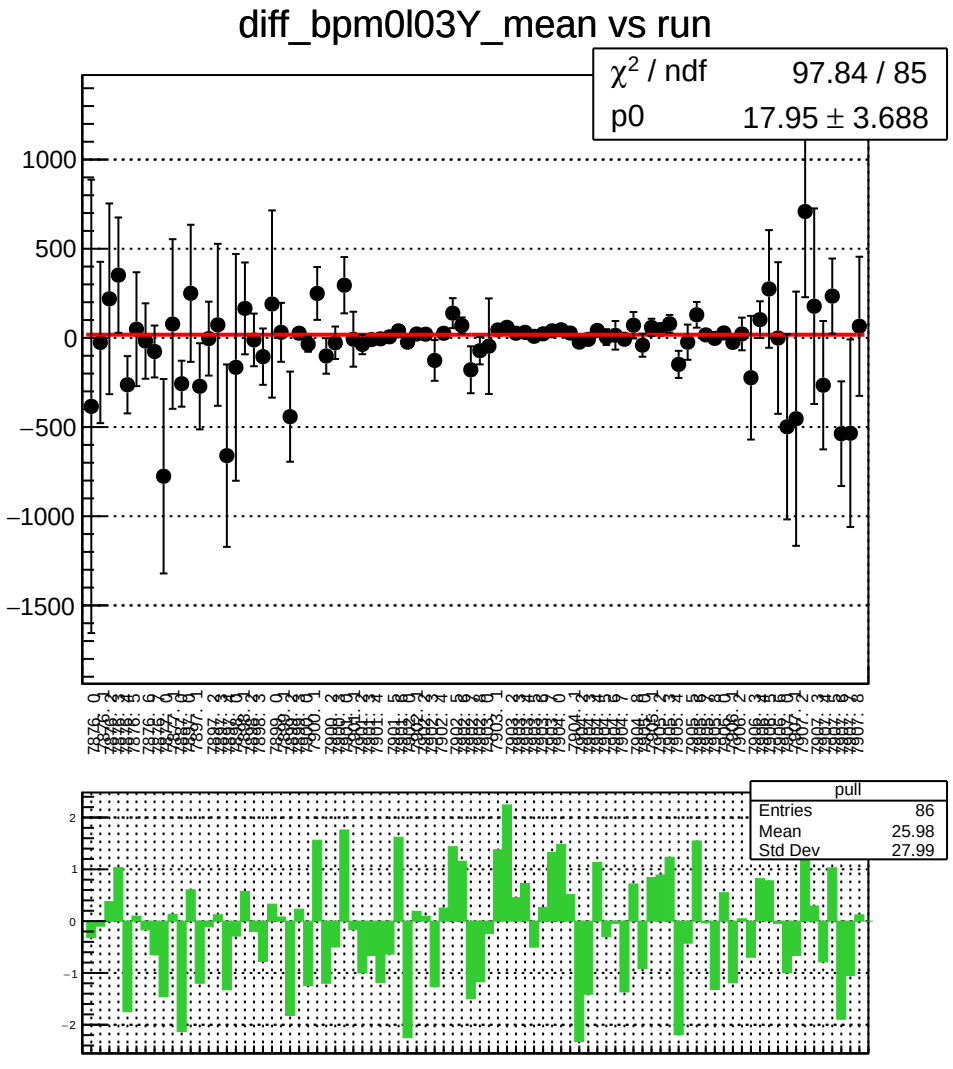

pull1D
Entries 86
Mean −0.01415
Std Dev 1.052

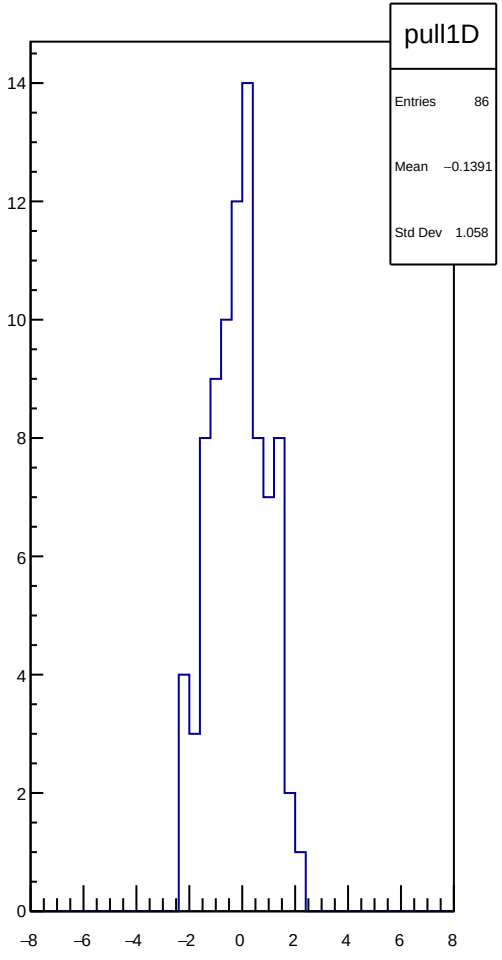

diff_bpm0l02Y_rms vs run
χ² / ndf 6473 / 85
p0 3232 ± 2.493
4000
3800
3600
3400
3200
3000
2800
2600

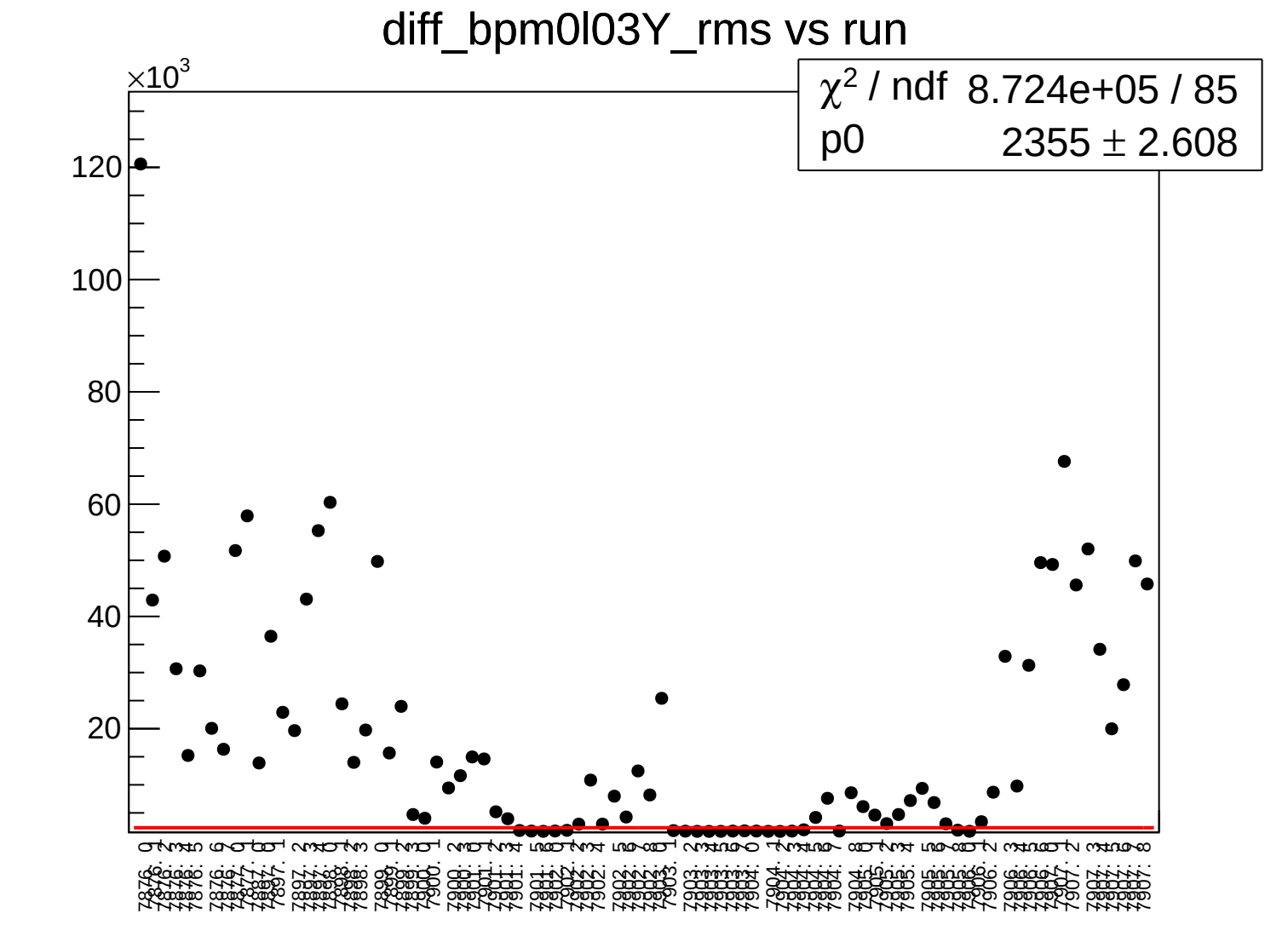

diff_bpm0l03X_mean vs run
χ^2 / ndf 92.16 / 85
p0 6.328 ± 3.685
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean 24.77
Std Dev 21.17
2
1
0
−1
−2

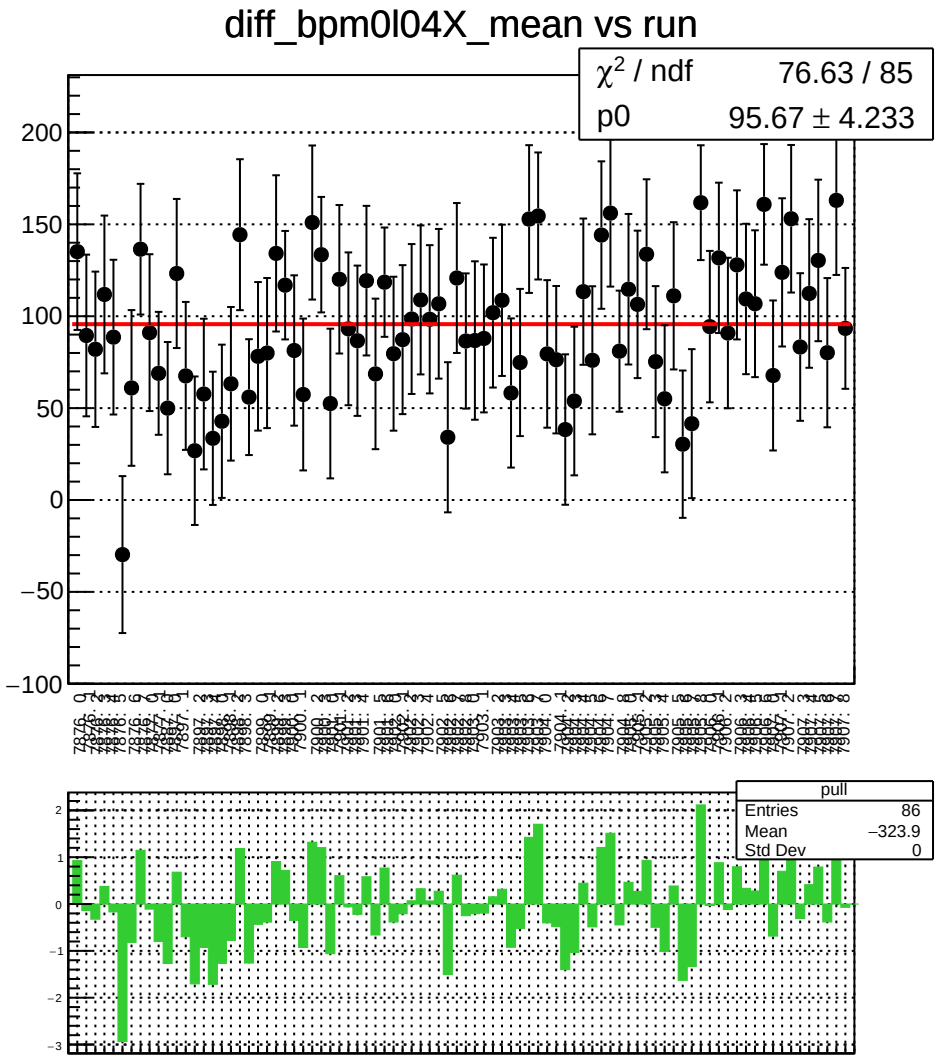

pull1D
Entries 86
Mean −0.1451
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

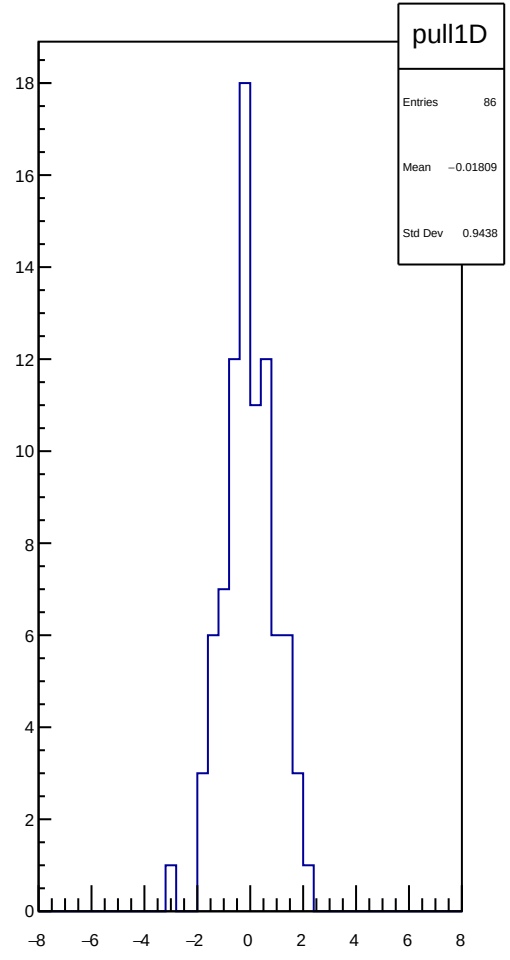

diff_bpm0l03X_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 8.72e+05 / 85
p0 2354 ± 2.606

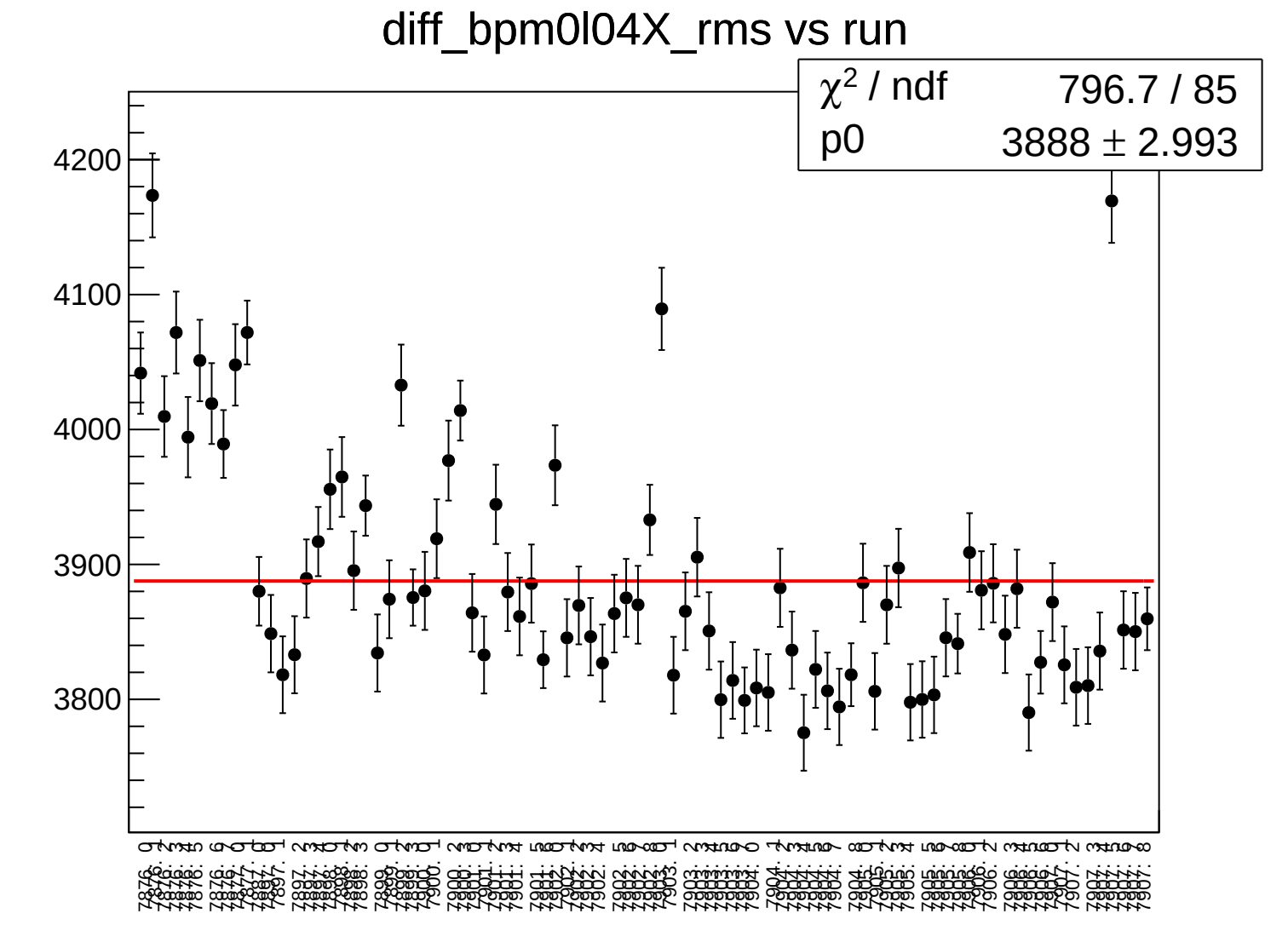

diff_bpm0l03Y_mean vs run
χ² / ndf 97.84 / 85
p0 17.95 ± 3.688
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean 25.98
Std Dev 27.99
2
1
0
−1
−2

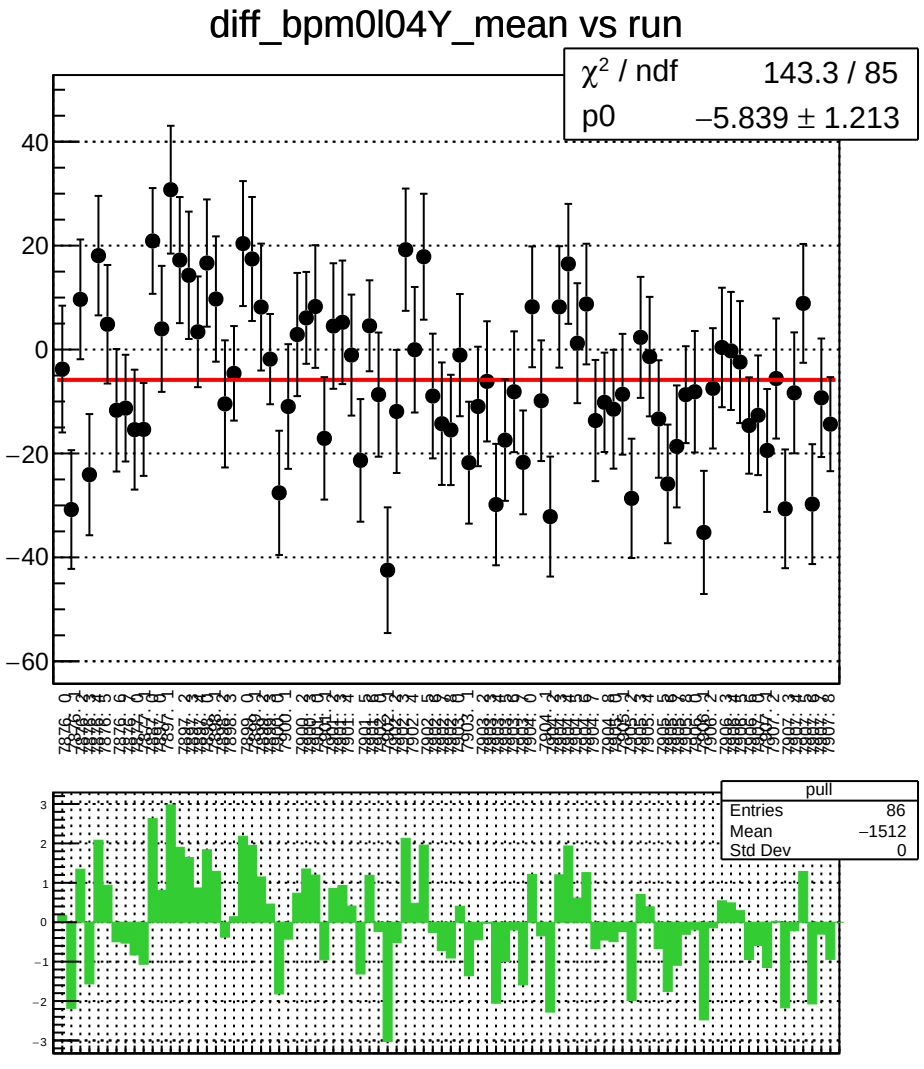

pull1D
Entries 86
Mean −0.1391
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

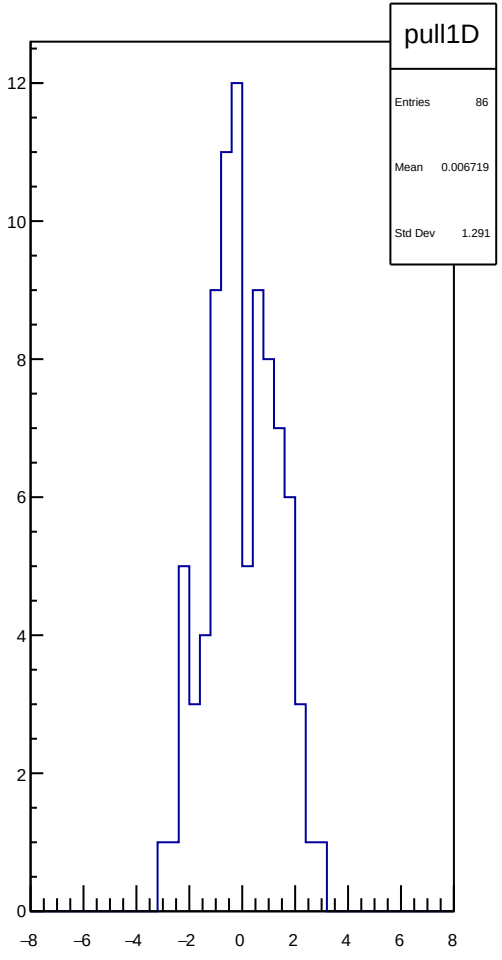

diff_bpm0l03Y_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 8.724e+05 / 85
p0 2355 ± 2.608

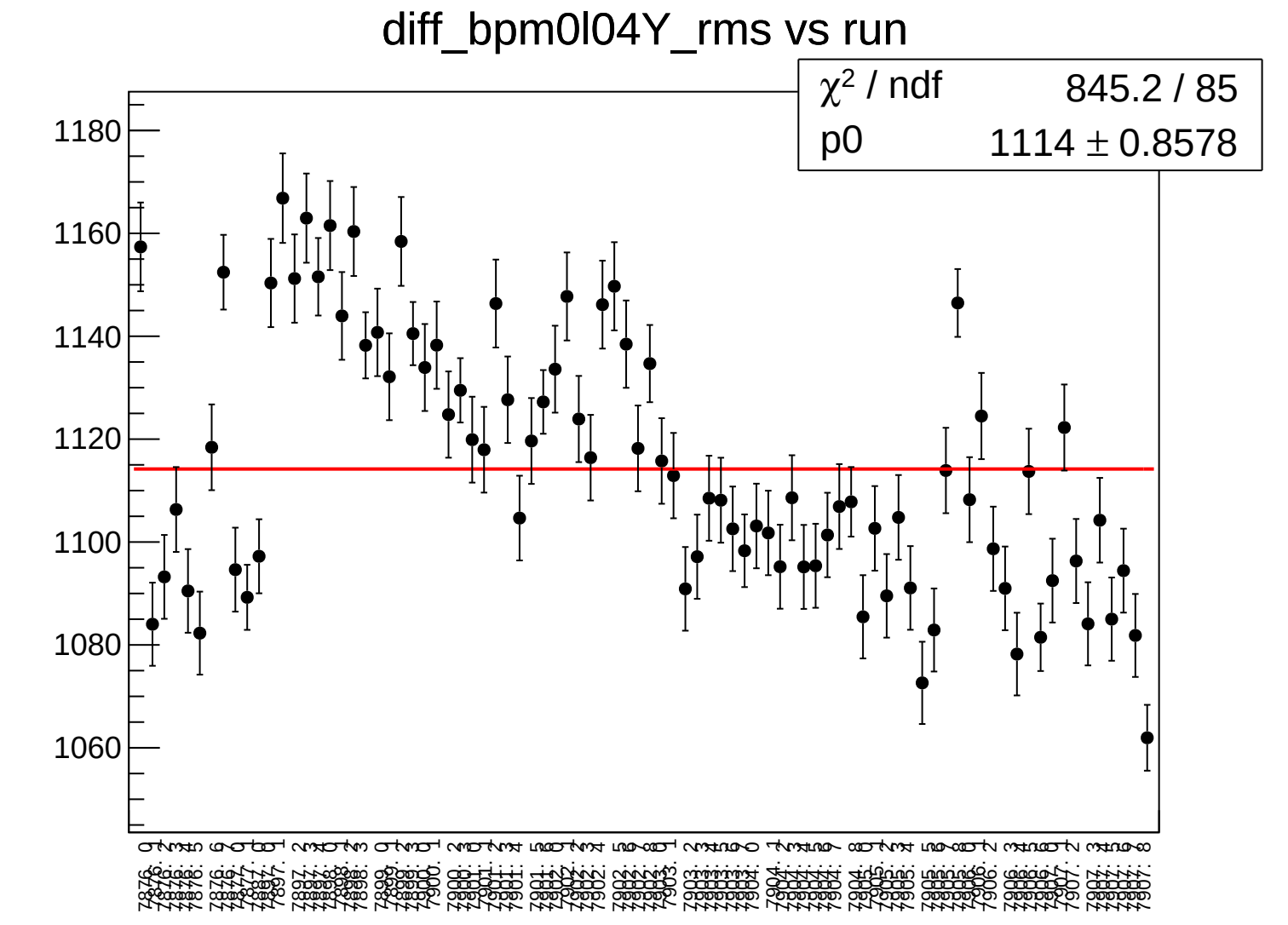

diff_bpm0l04X_mean vs run
χ^2 / ndf 76.63 / 85
p0 95.67 ± 4.233
pull
Entries 86
Mean −323.9
Std Dev 0

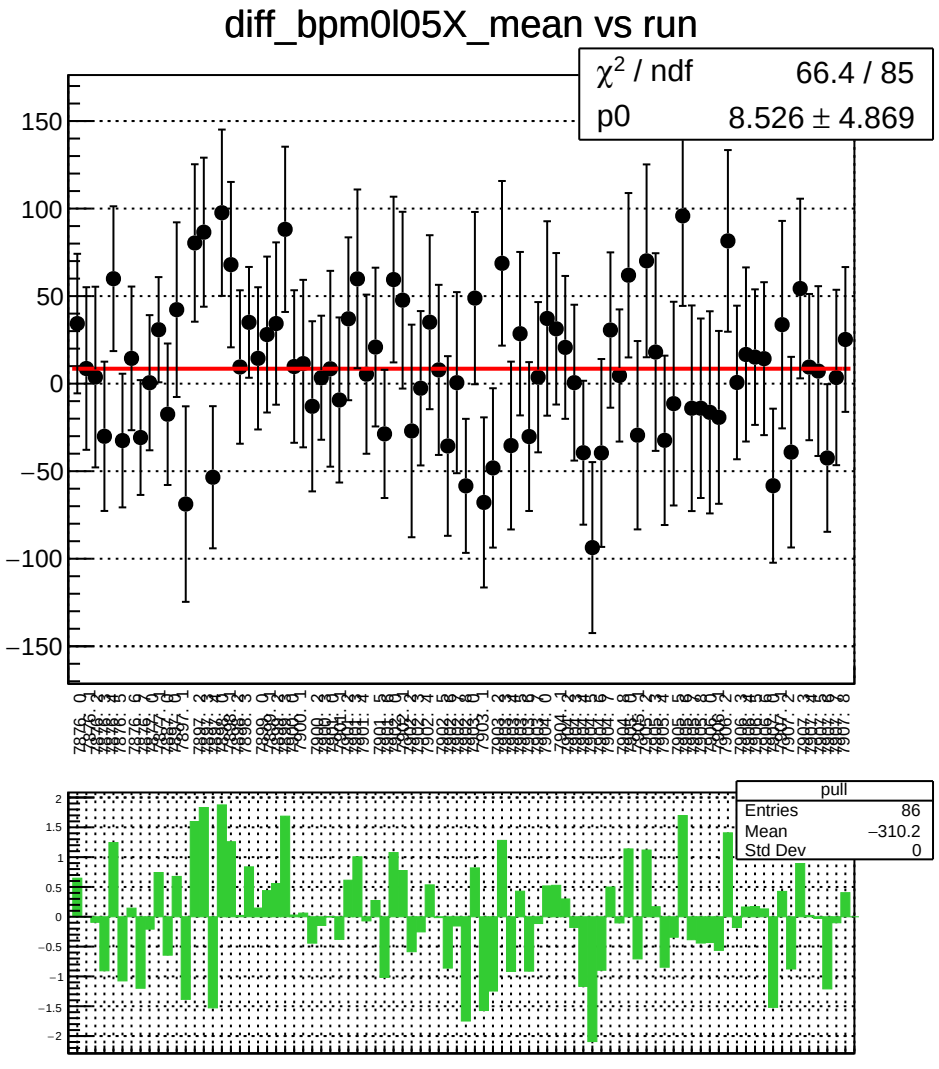

pull1D
Entries 86
Mean −0.01809
Std Dev 0.9438

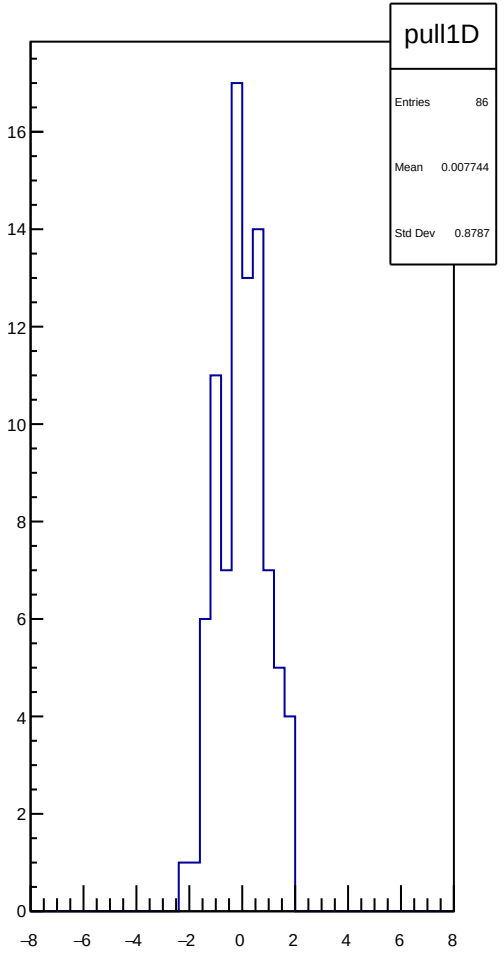

diff_bpm0l04X_rms vs run
χ² / ndf 796.7 / 85
p0 3888 ± 2.993
4200
4100
4000
3900
3800

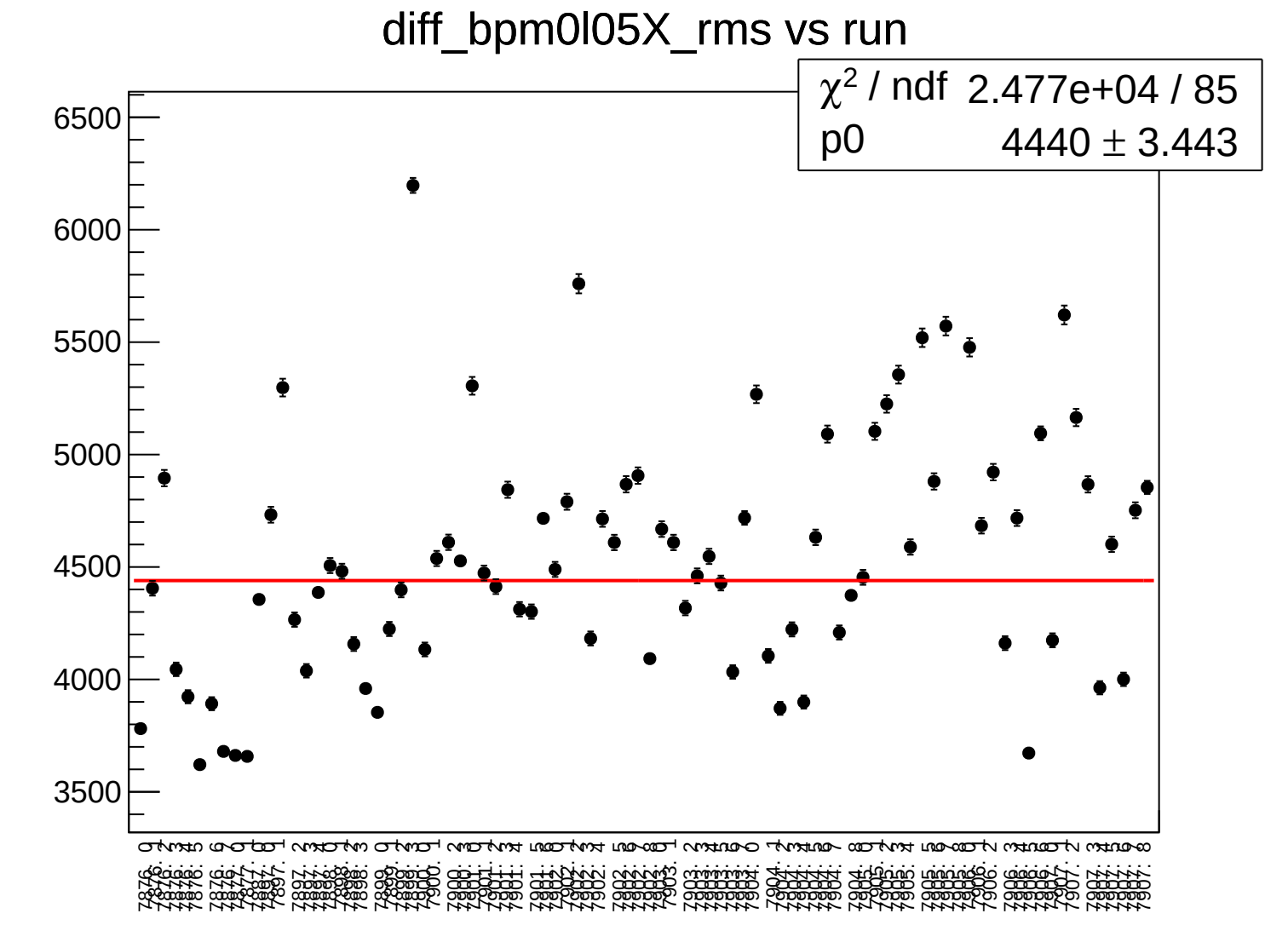

diff_bpm0l04Y_mean vs run
χ² / ndf 143.3 / 85
p0 −5.839 ± 1.213
pull
Entries 86
Mean −1512
Std Dev 0

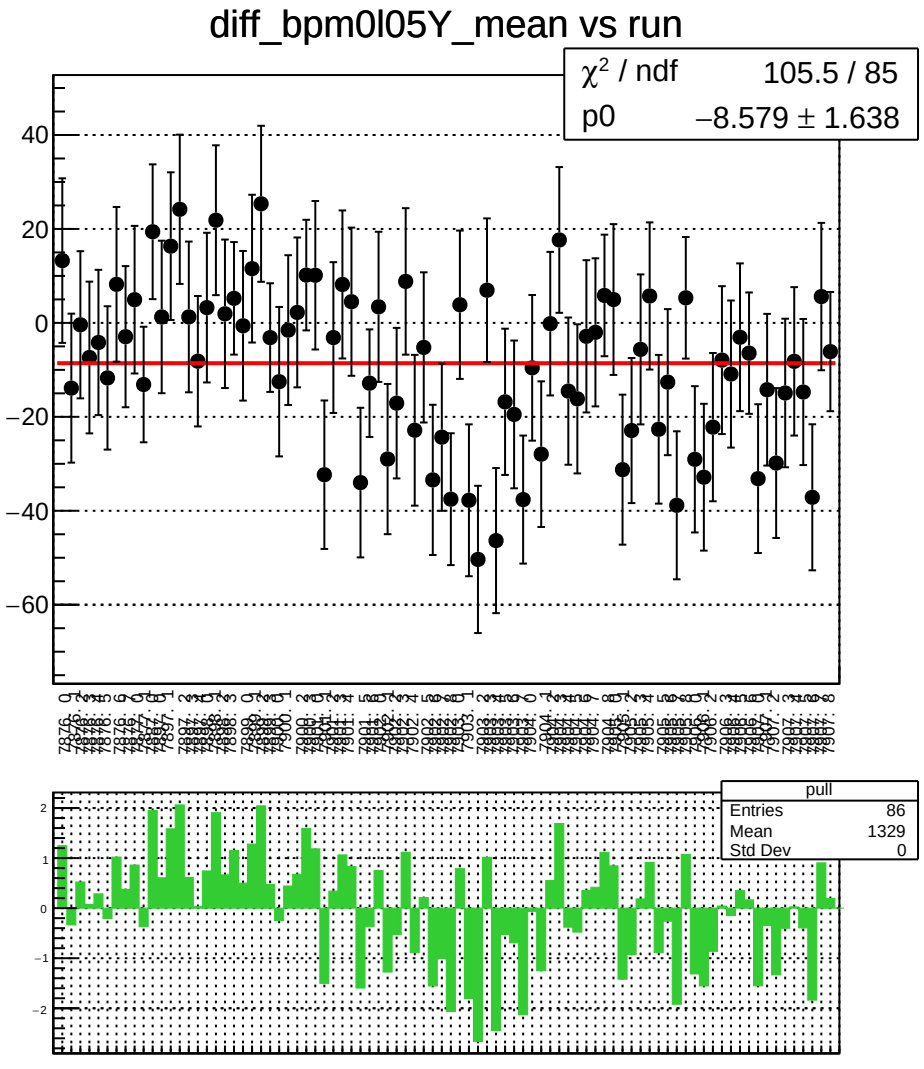

pull1D
Entries 86
Mean 0.006719
Std Dev 1.291

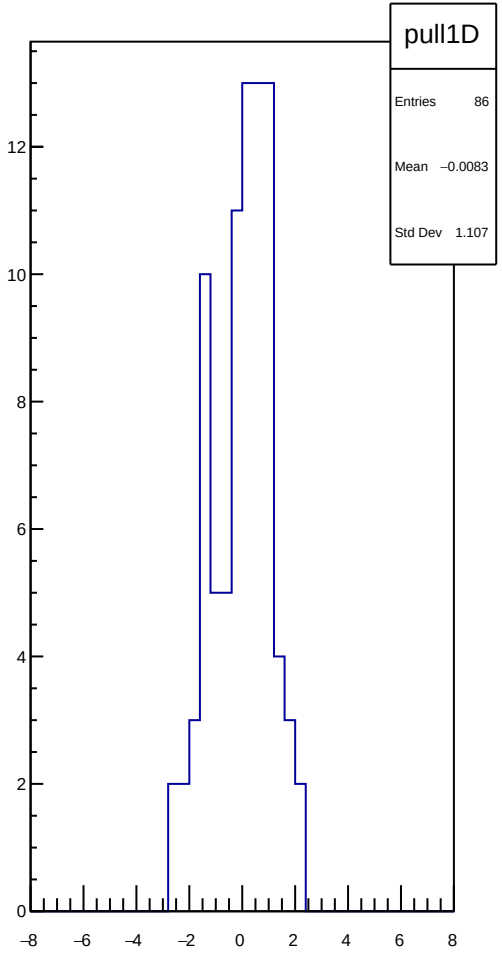

diff_bpm0l04Y_rms vs run
χ² / ndf 845.2 / 85
p0 1114 ± 0.8578
1180
1160
1140
1120
1100
1080
1060

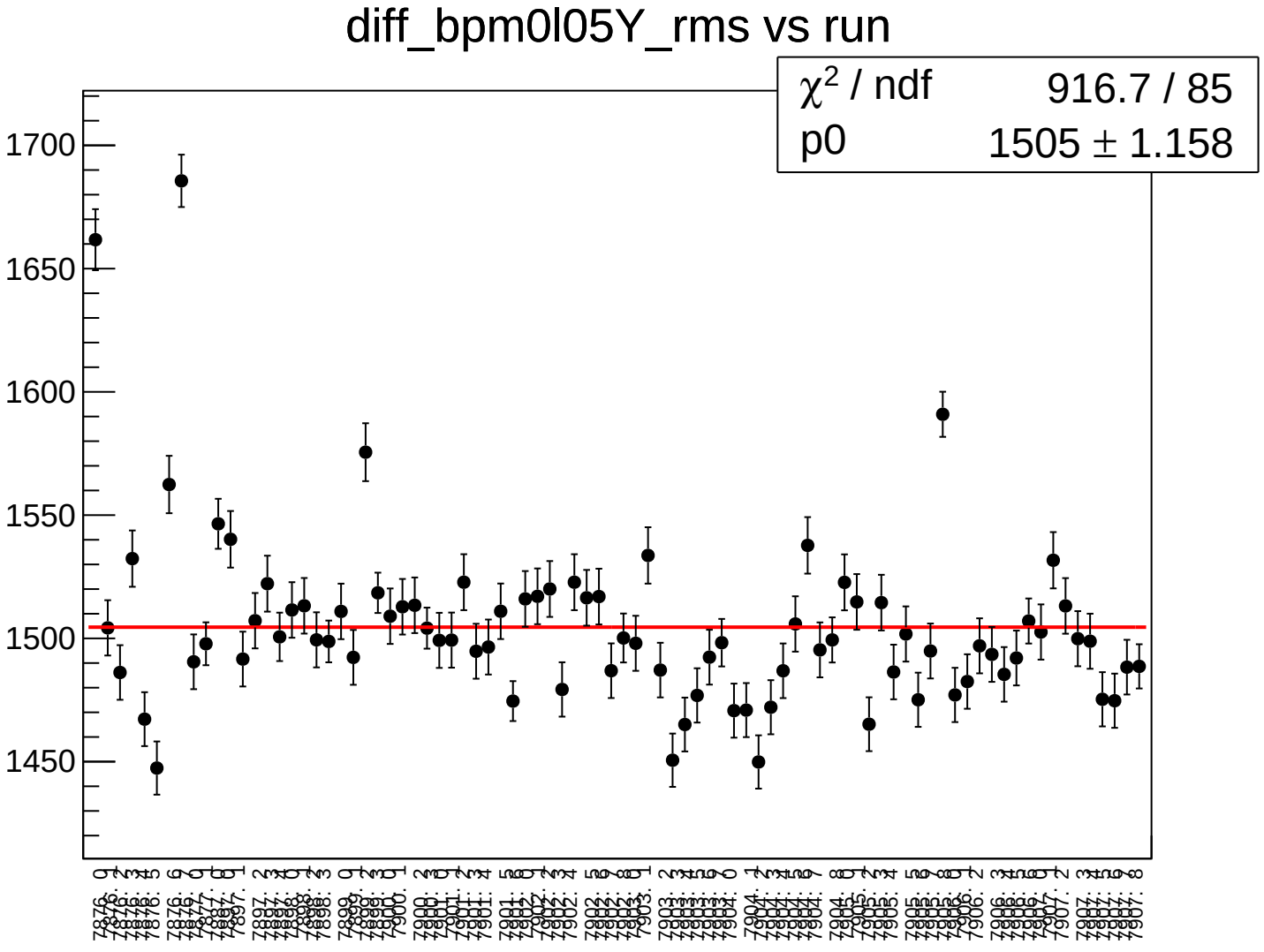

diff_bpm0l05X_mean vs run
χ² / ndf 66.4 / 85
p0 8.526 ± 4.869
pull
Entries 86
Mean −310.2
Std Dev 0

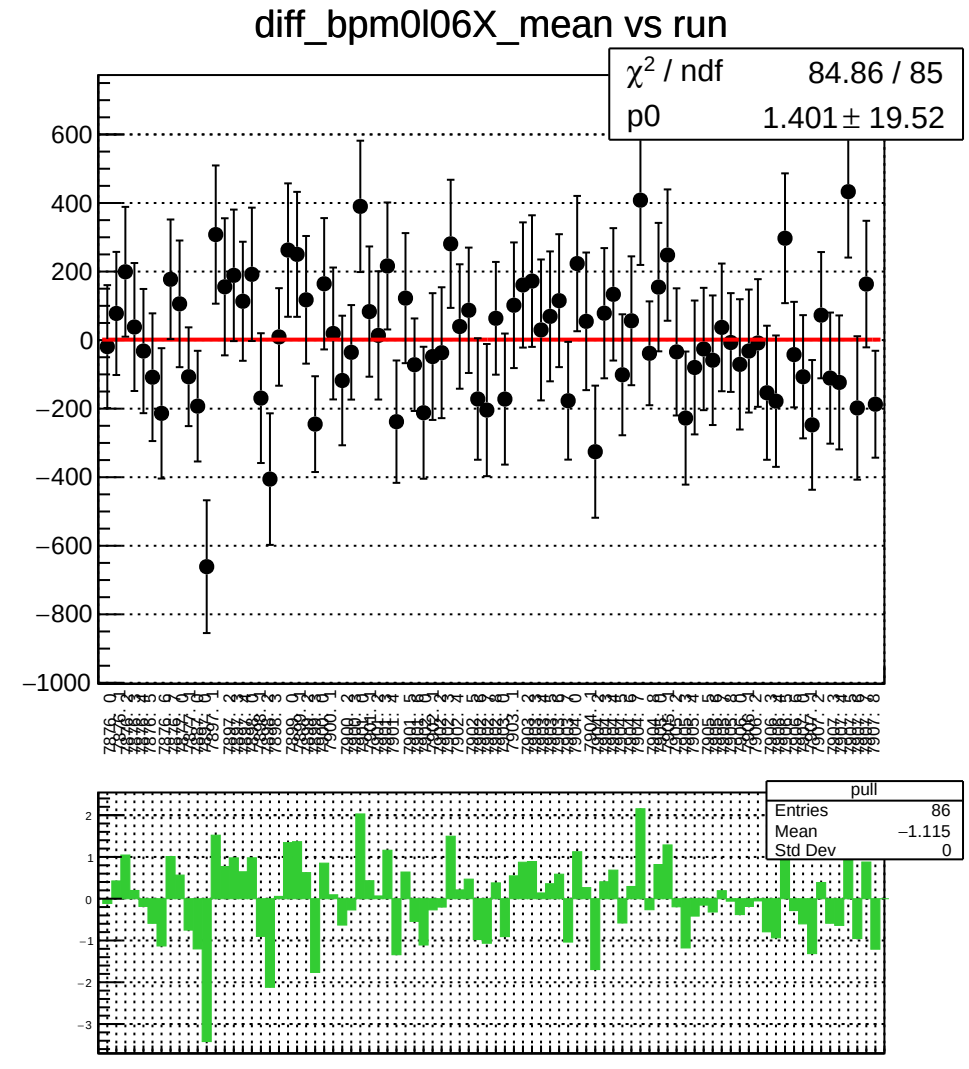

pull1D
Entries 86
Mean 0.007744
Std Dev 0.8787

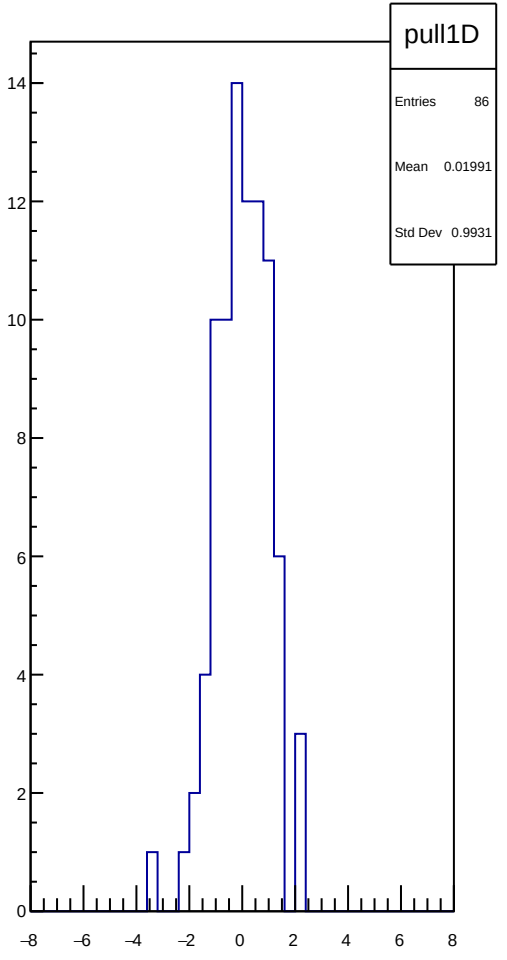

diff_bpm0l05X_rms vs run
χ² / ndf 2.477e+04 / 85
p0 4440 ± 3.443
6500
6000
5500
5000
4500
4000
3500

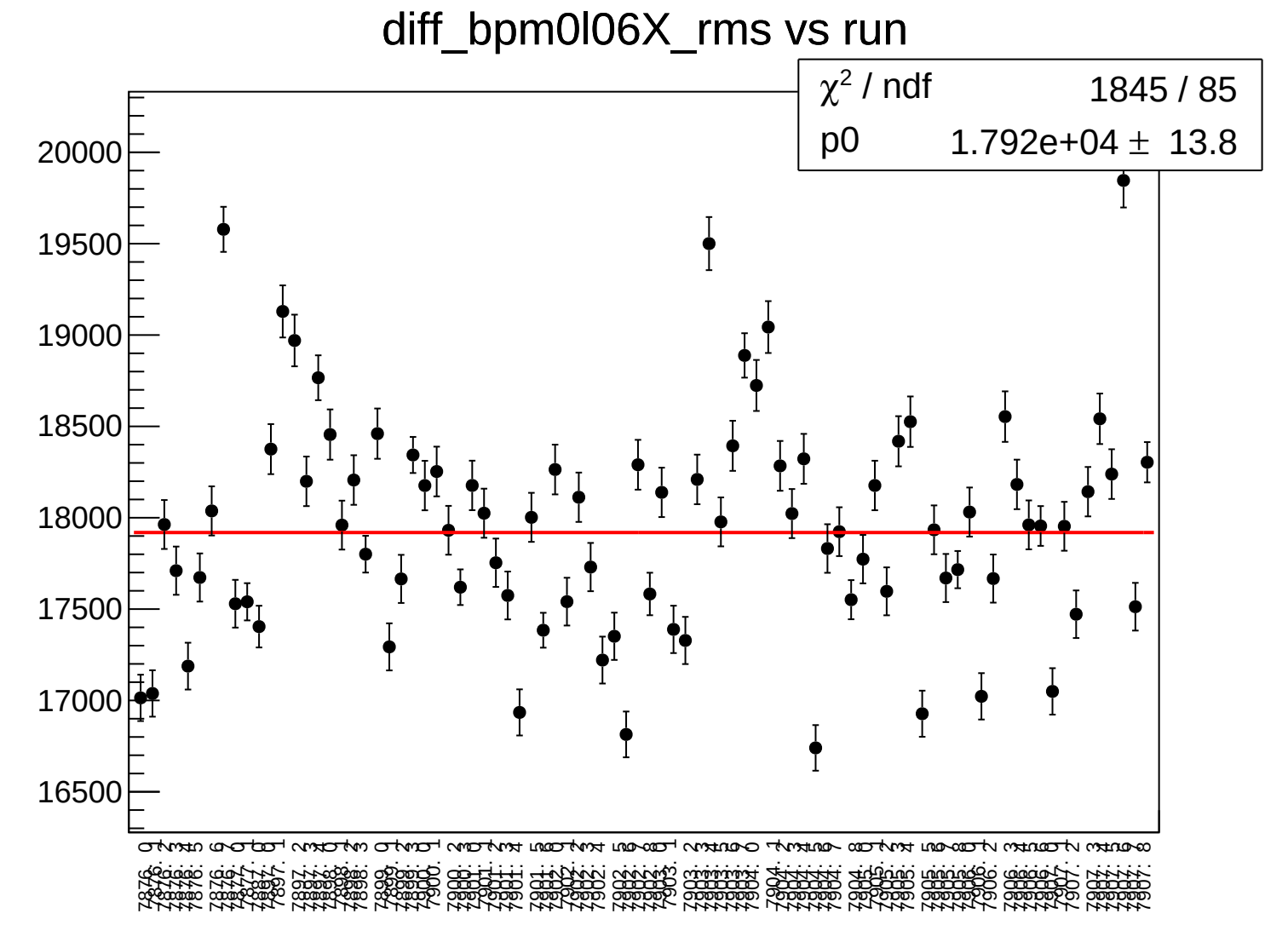

diff_bpm0l05Y_mean vs run
χ² / ndf 105.5 / 85
p0 −8.579 ± 1.638
pull
Entries 86
Mean 1329
Std Dev 0

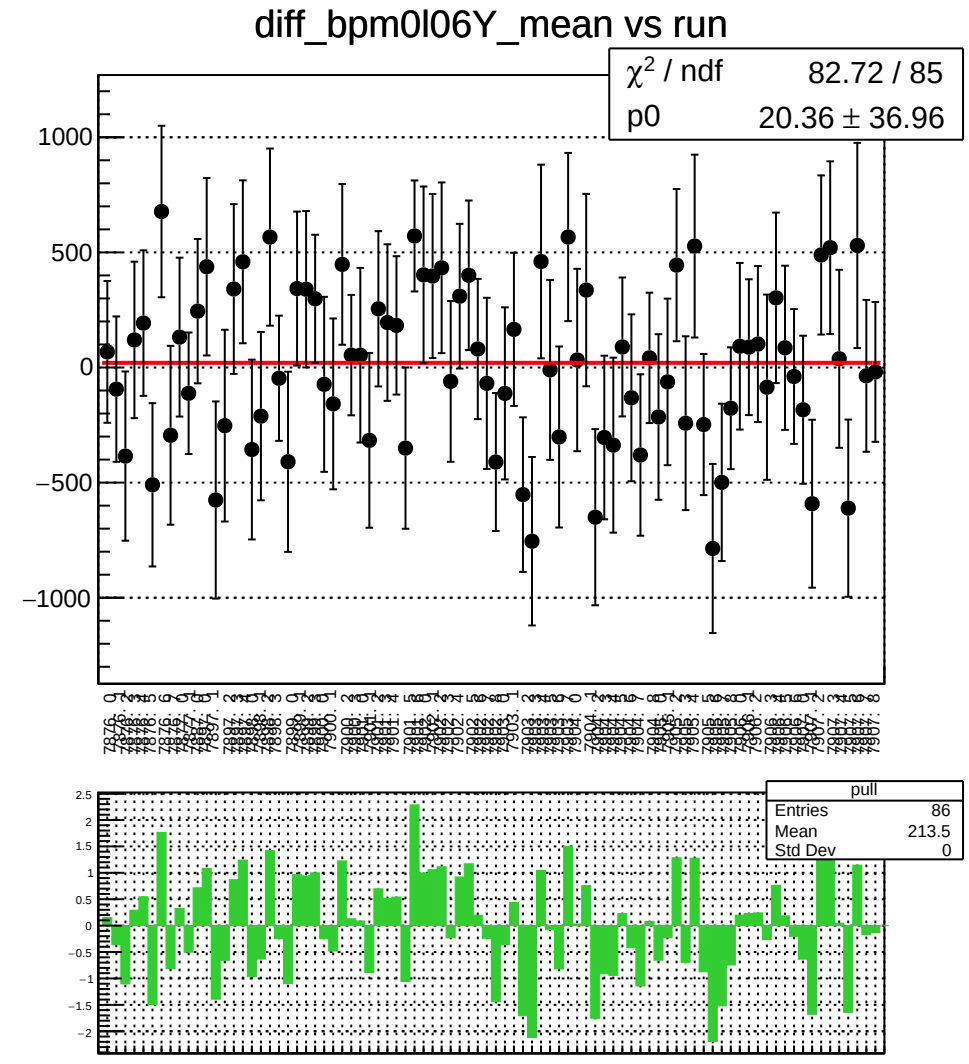

pull1D
Entries 86
Mean −0.0083
Std Dev 1.107

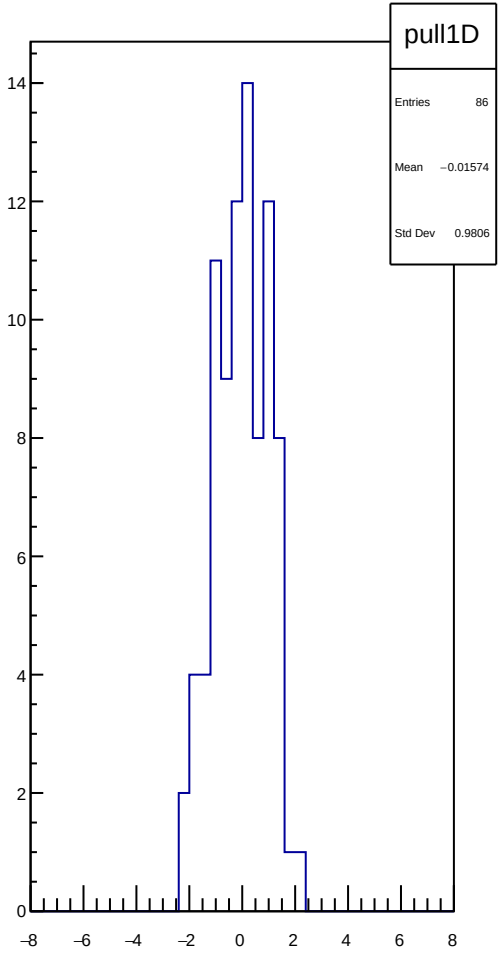

diff_bpm0l05Y_rms vs run
χ² / ndf 916.7 / 85
p0 1505 ± 1.158
1700
1650
1600
1550
1500
1450

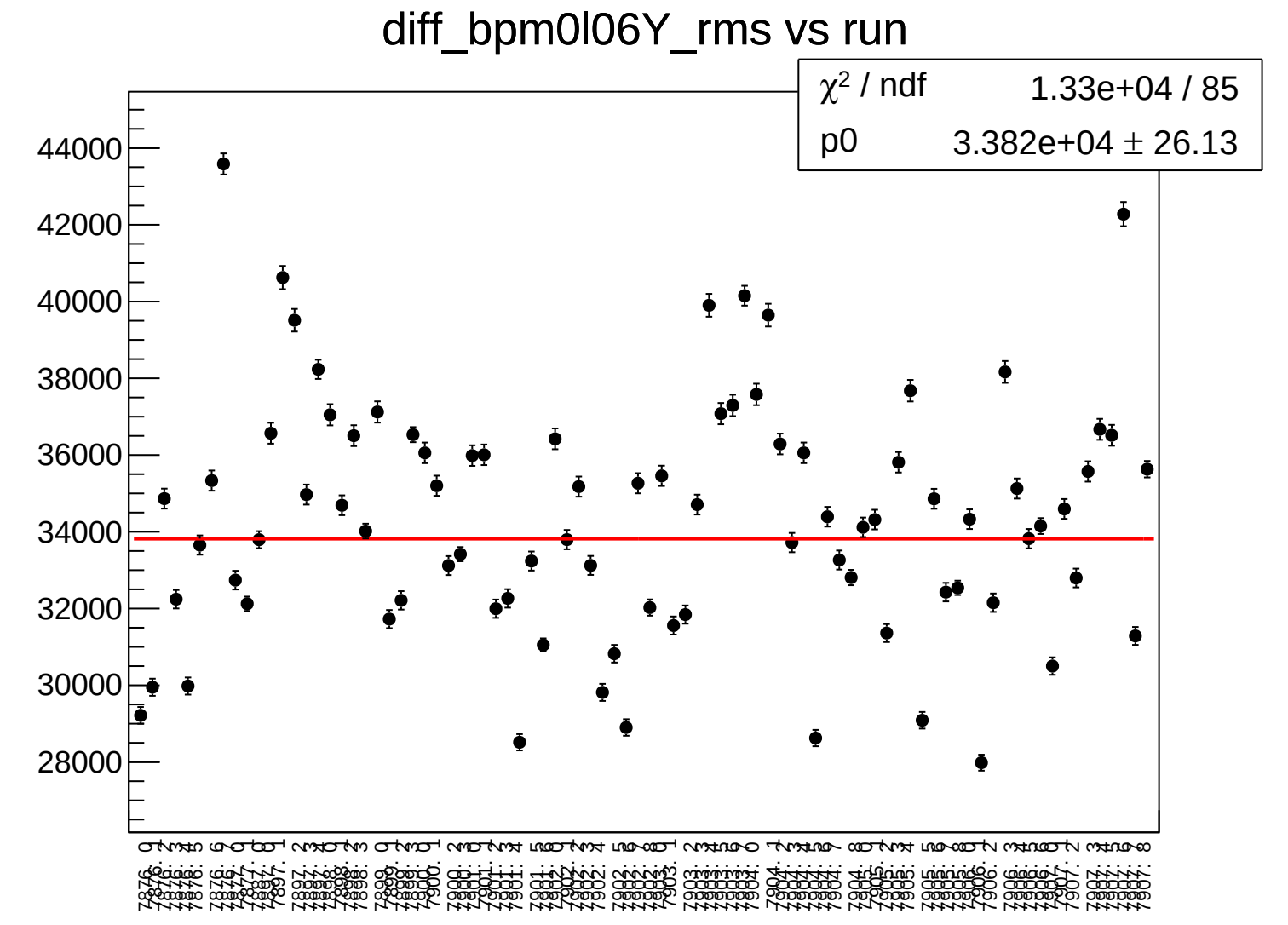

diff_bpm0l06X_mean vs run
χ² / ndf 84.86 / 85
p0 1.401 ± 19.52
pull
Entries 86
Mean −1.115
Std Dev 0

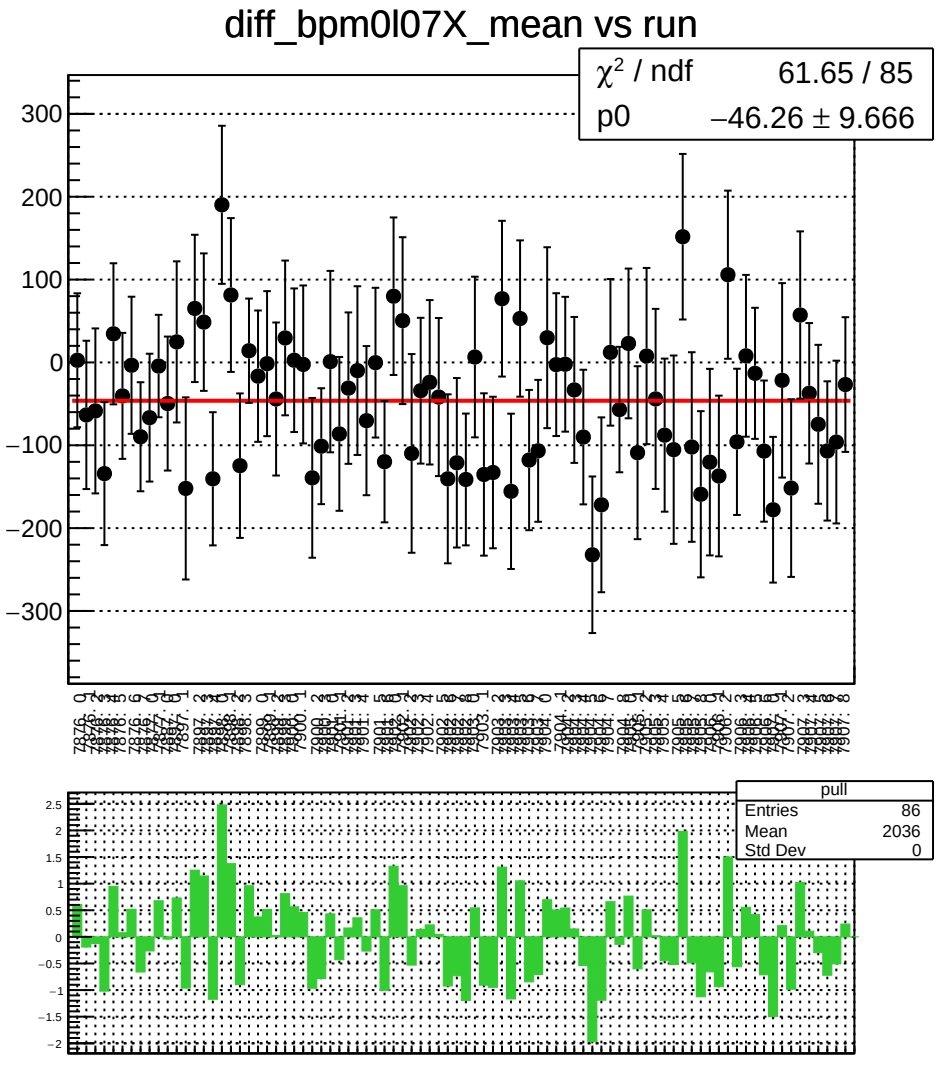

pull1D
Entries 86
Mean 0.01991
Std Dev 0.9931

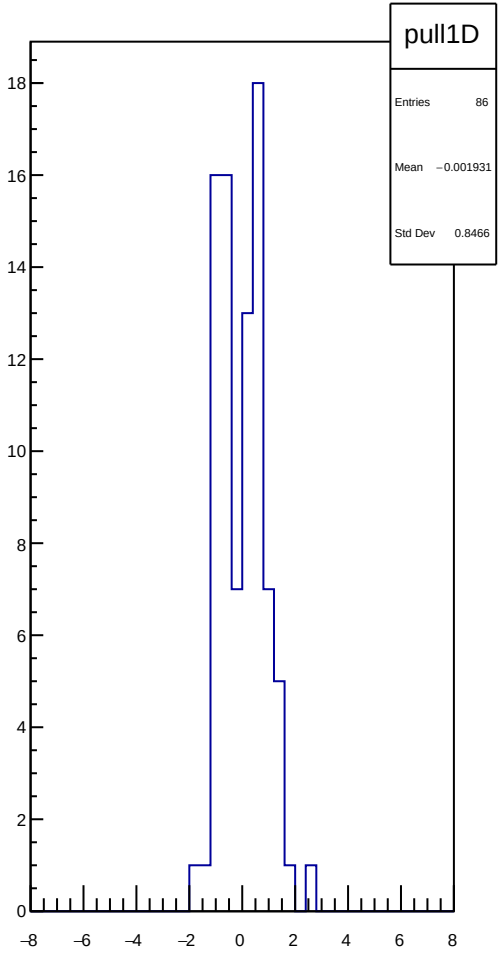

diff_bpm0l06X_rms vs run
χ² / ndf 1845 / 85
p0 1.792e+04 ± 13.8
20000
19500
19000
18500
18000
17500
17000
16500

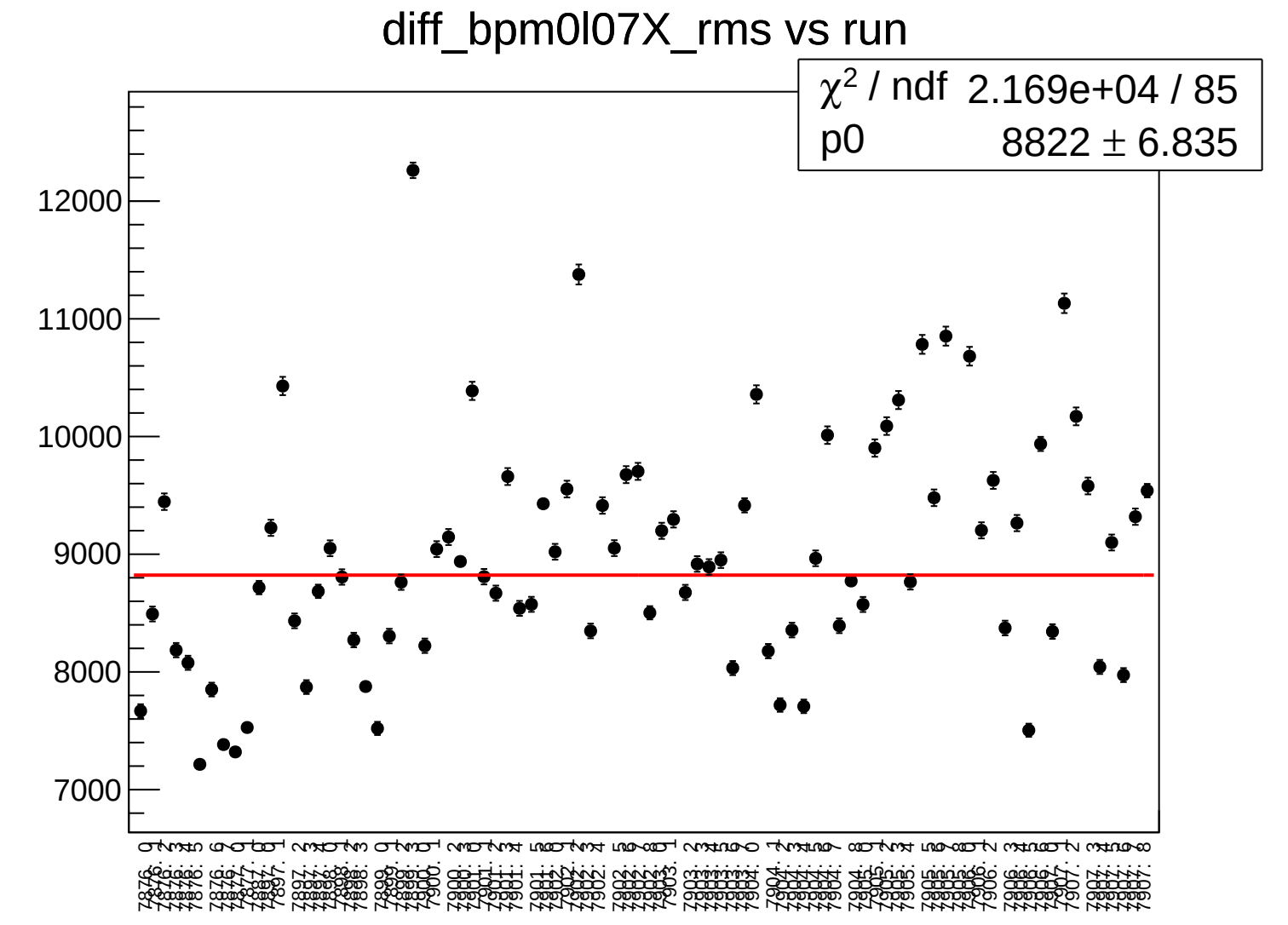

diff_bpm0l06Y_mean vs run
χ^2 / ndf 82.72 / 85
p0 20.36 ± 36.96
1000
500
0
−500
−1000
pull
Entries 86
Mean 213.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

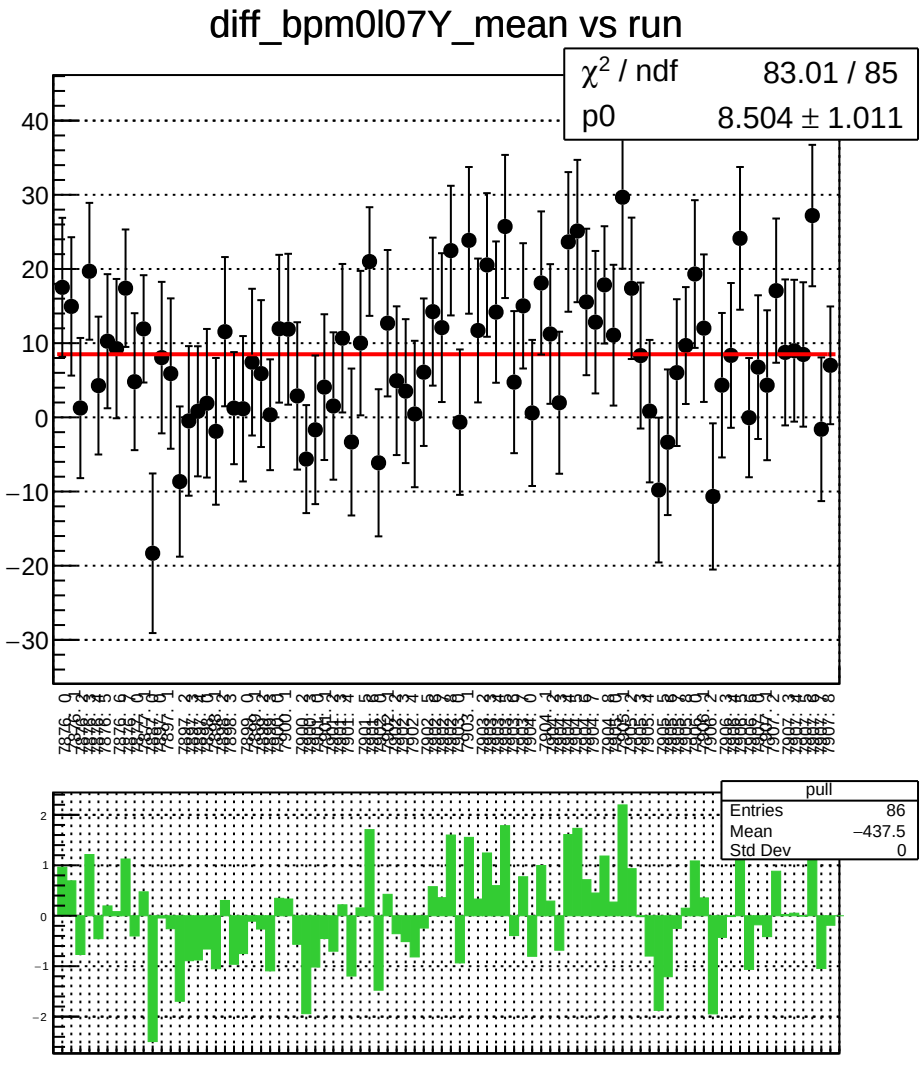

pull1D
Entries 86
Mean −0.01574
Std Dev 0.9806
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

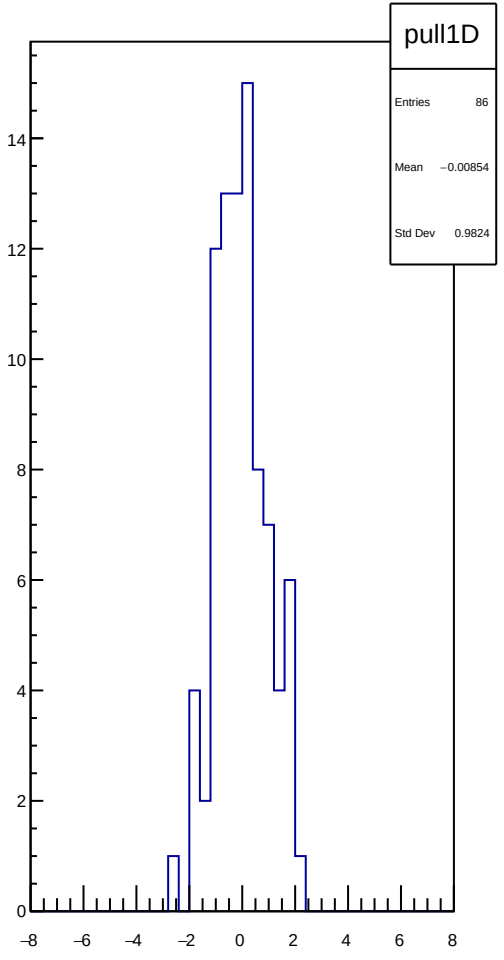

diff_bpm0l06Y_rms vs run
χ² / ndf 1.33e+04 / 85
p0 3.382e+04 ± 26.13
44000
42000
40000
38000
36000
34000
32000
30000
28000

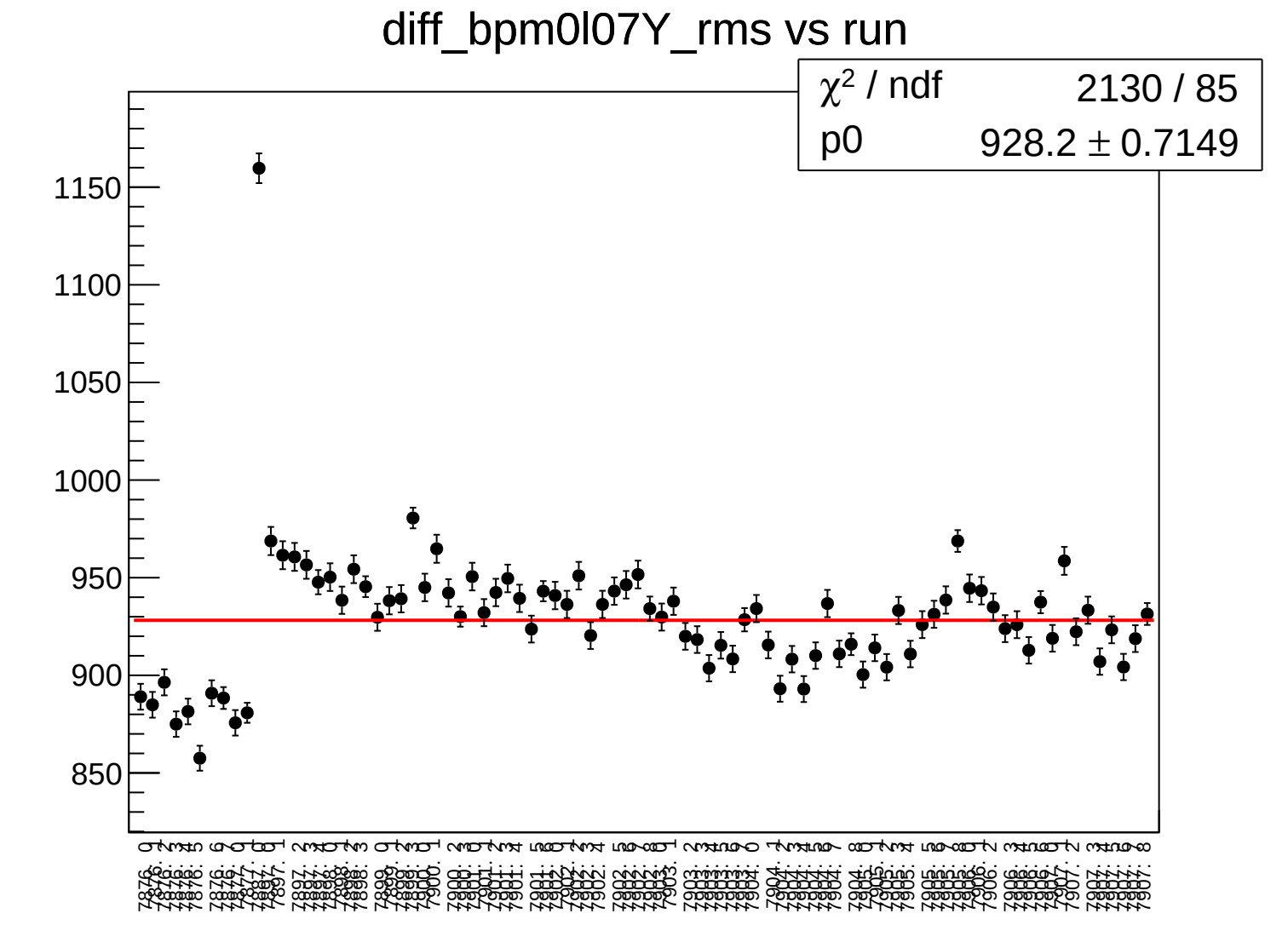

diff_bpm0l07X_mean vs run
χ² / ndf 61.65 / 85
p0 −46.26 ± 9.666
pull
Entries 86
Mean 2036
Std Dev 0

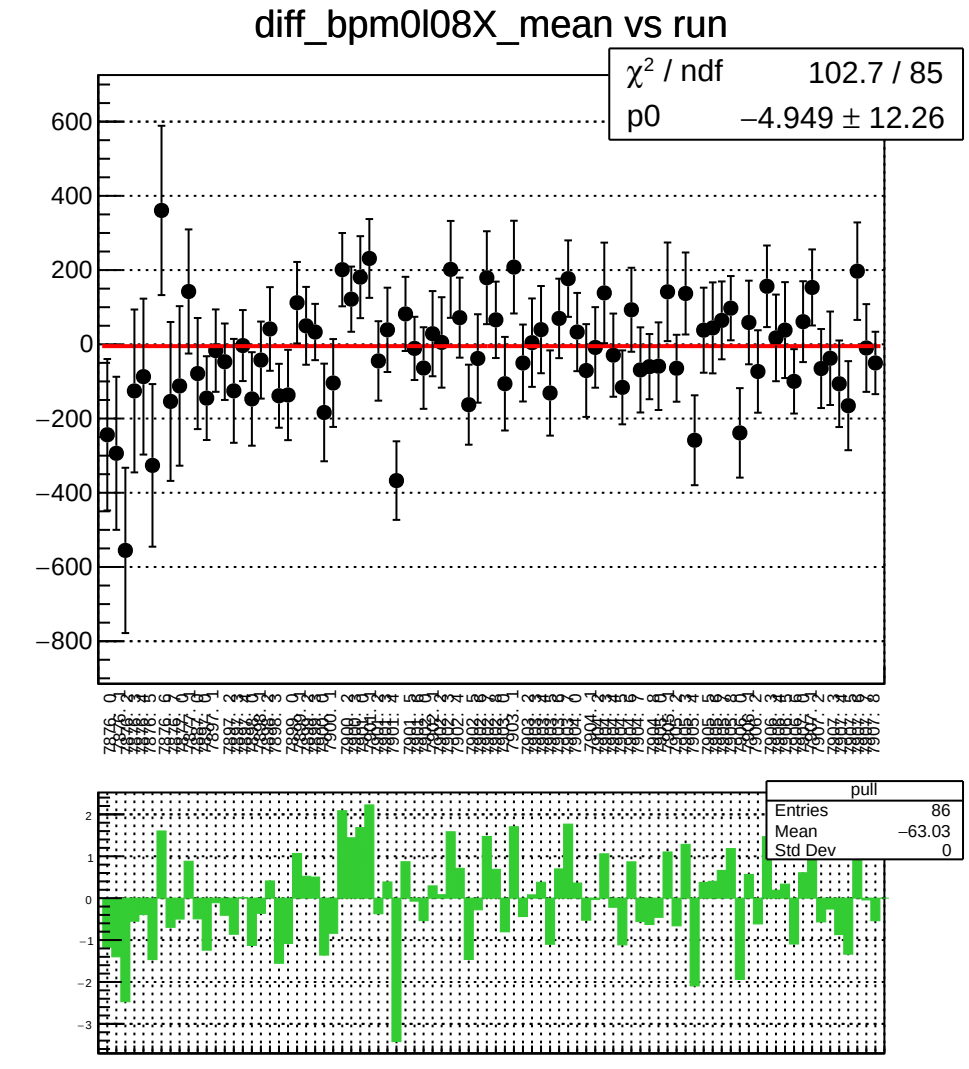

pull1D
Entries 86
Mean −0.001931
Std Dev 0.8466

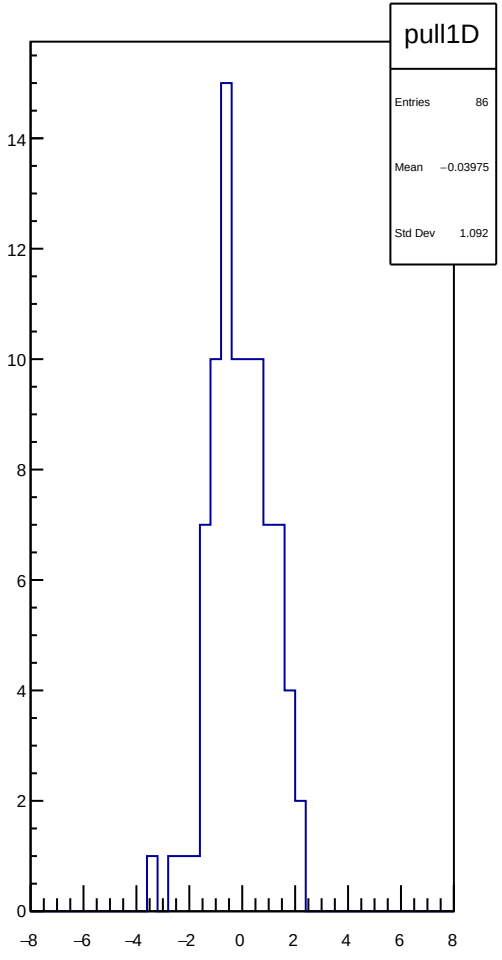

diff_bpm0l07X_rms vs run
χ² / ndf 2.169e+04 / 85
p0 8822 ± 6.835
12000
11000
10000
9000
8000
7000

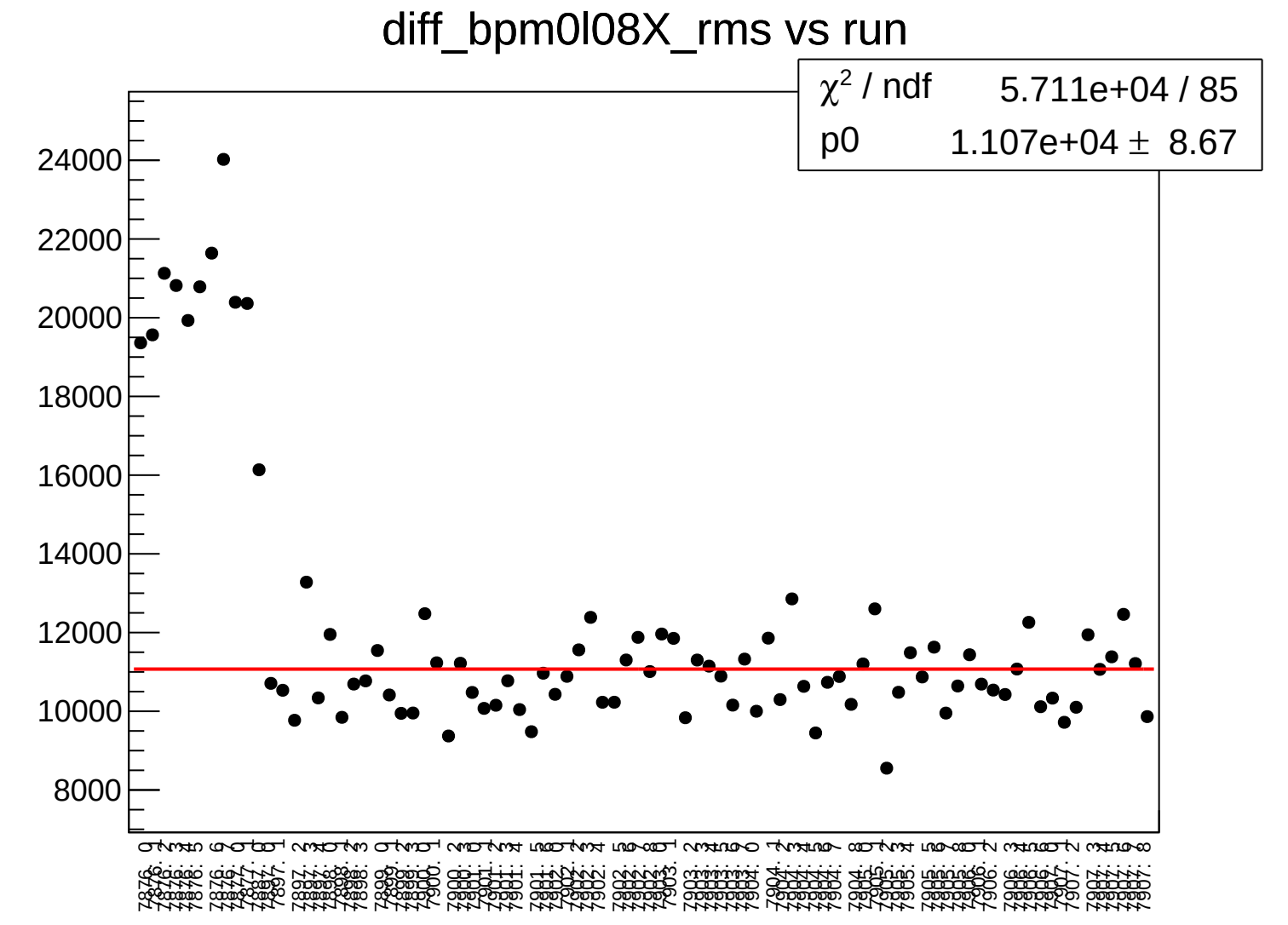

diff_bpm0l07Y_mean vs run
χ^2 / ndf 83.01 / 85
p0 8.504 ± 1.011
pull
Entries 86
Mean −437.5
Std Dev 0

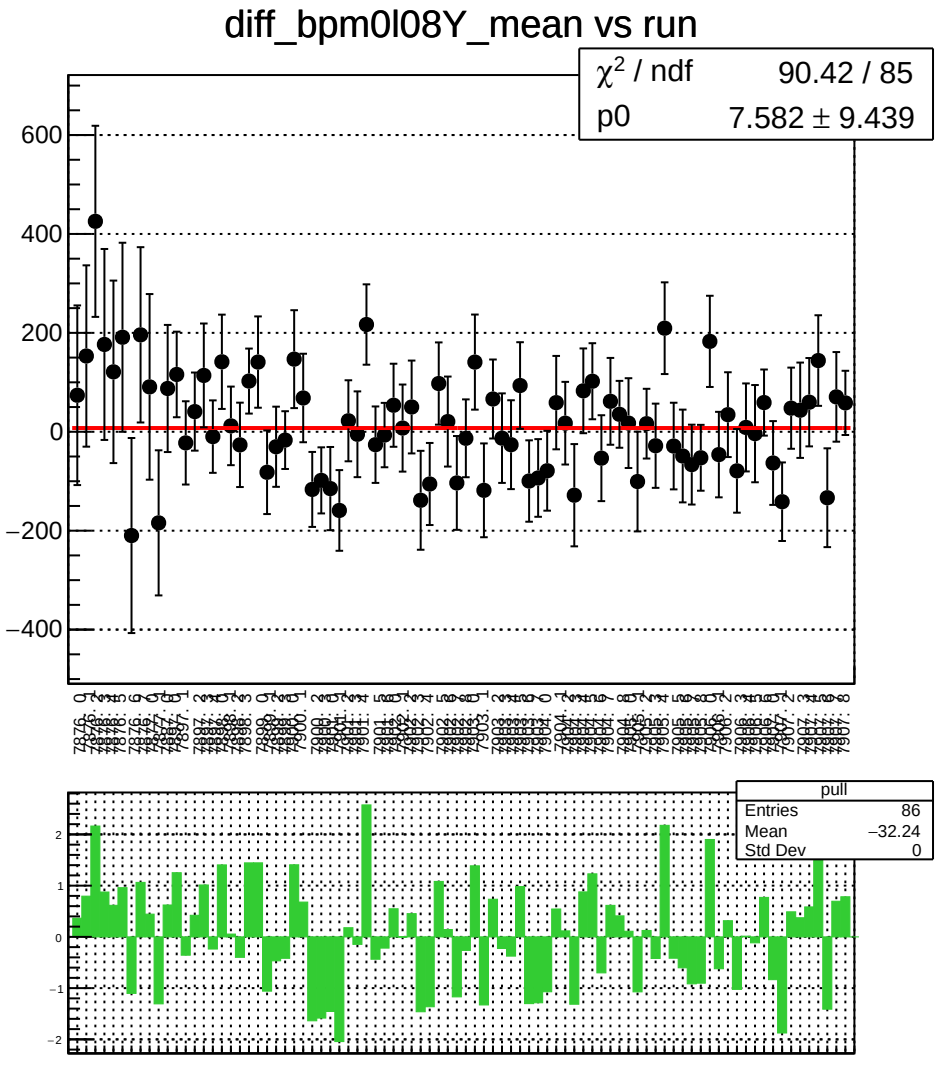

pull1D
Entries 86
Mean −0.00854
Std Dev 0.9824

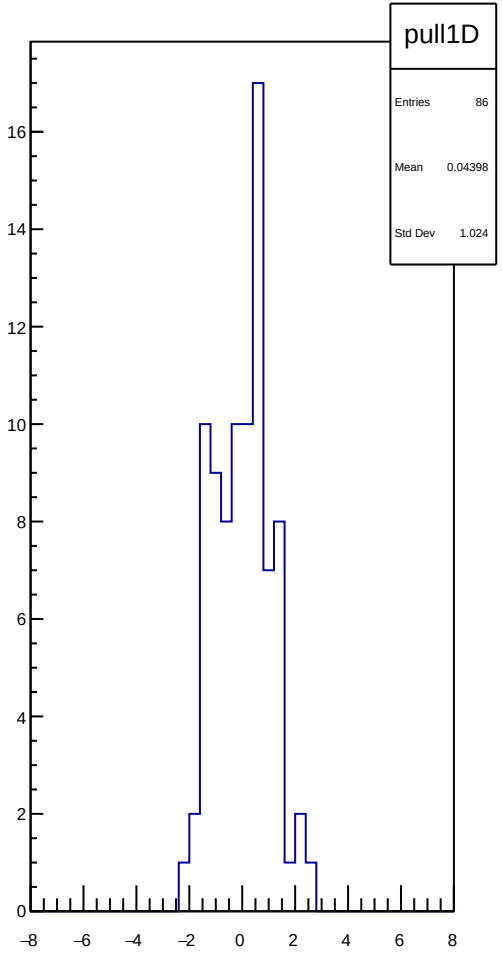

diff_bpm0l07Y_rms vs run
χ² / ndf 2130 / 85
p0 928.2 ± 0.7149
1150
1100
1050
1000
950
900
850

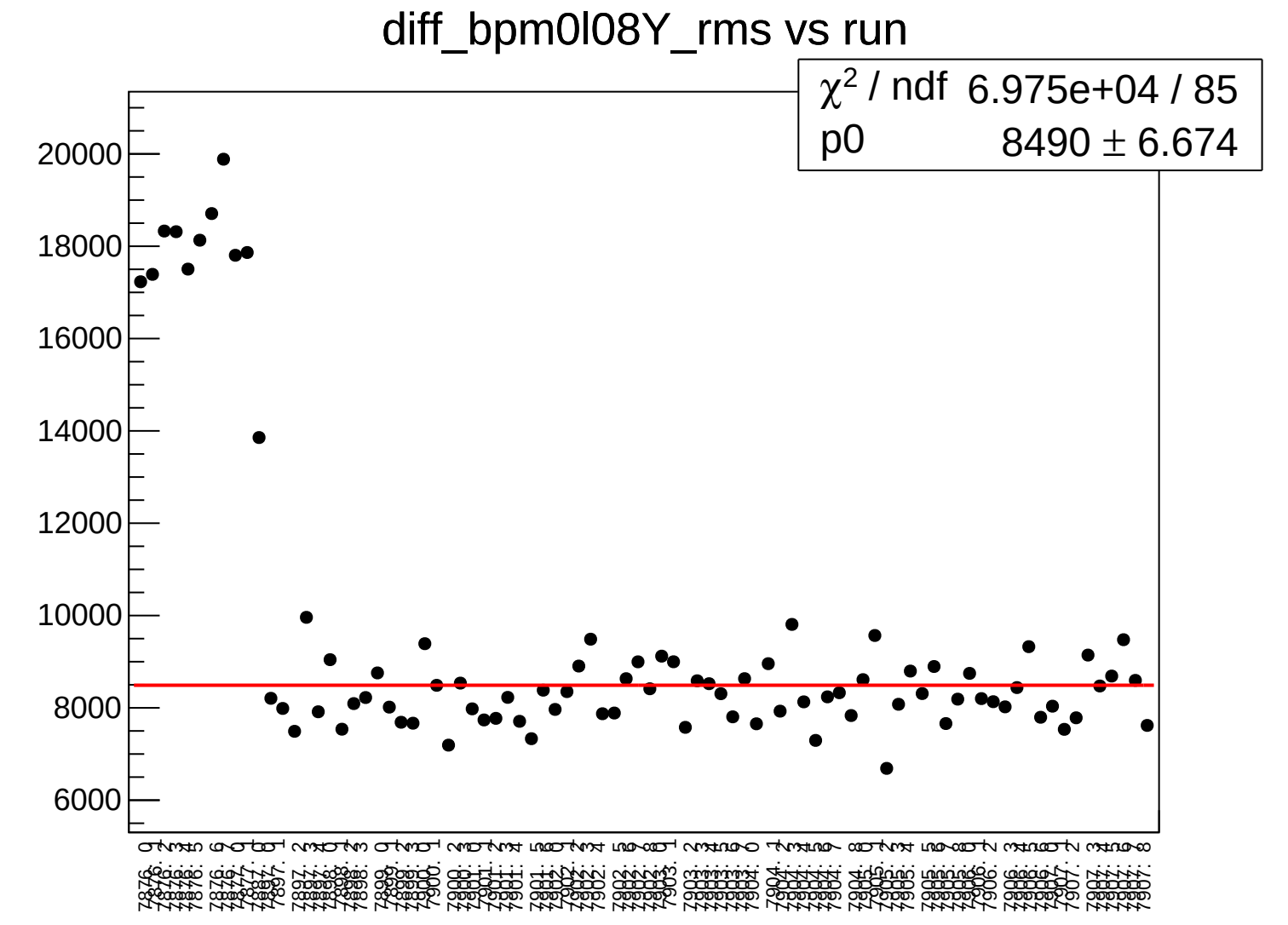

diff_bpm0l08X_mean vs run
χ² / ndf 102.7 / 85
p0 −4.949 ± 12.26
pull
Entries 86
Mean −63.03
Std Dev 0

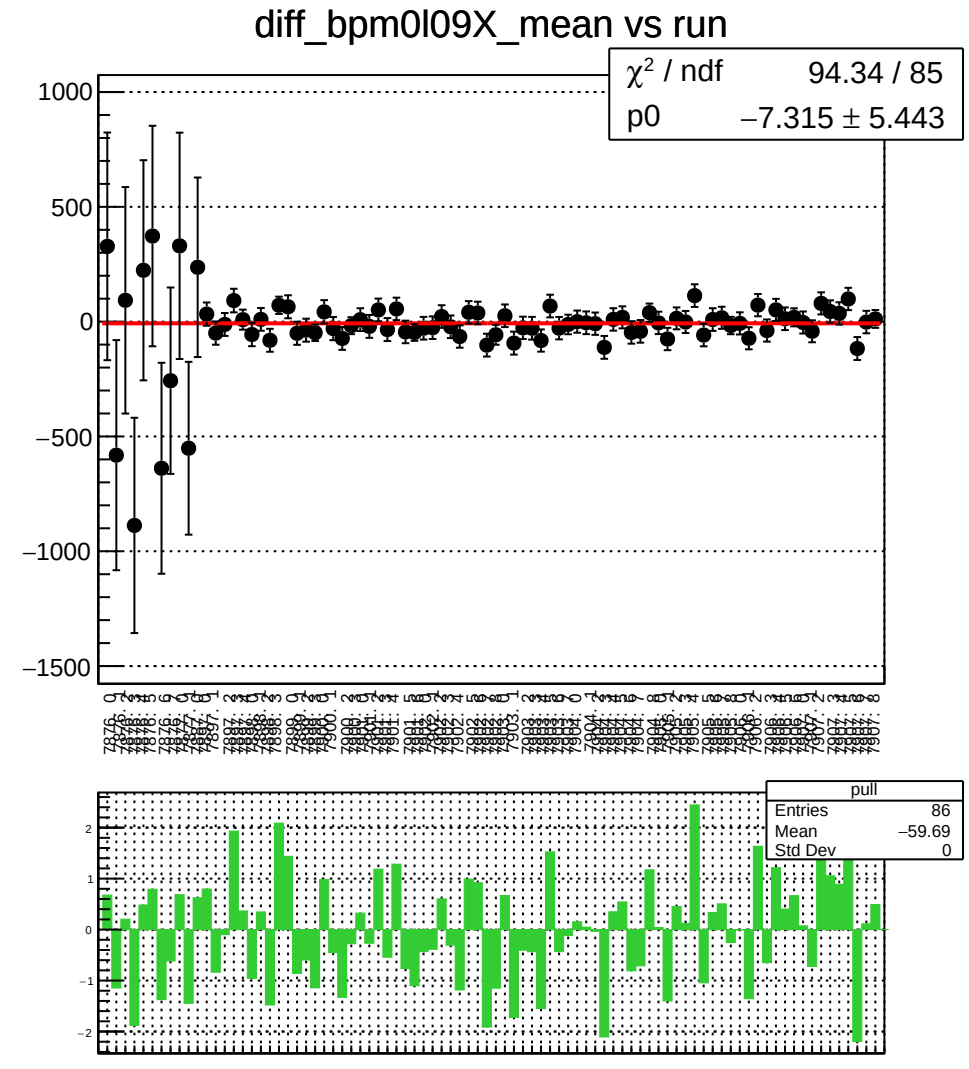

pull1D
Entries 86
Mean −0.03975
Std Dev 1.092

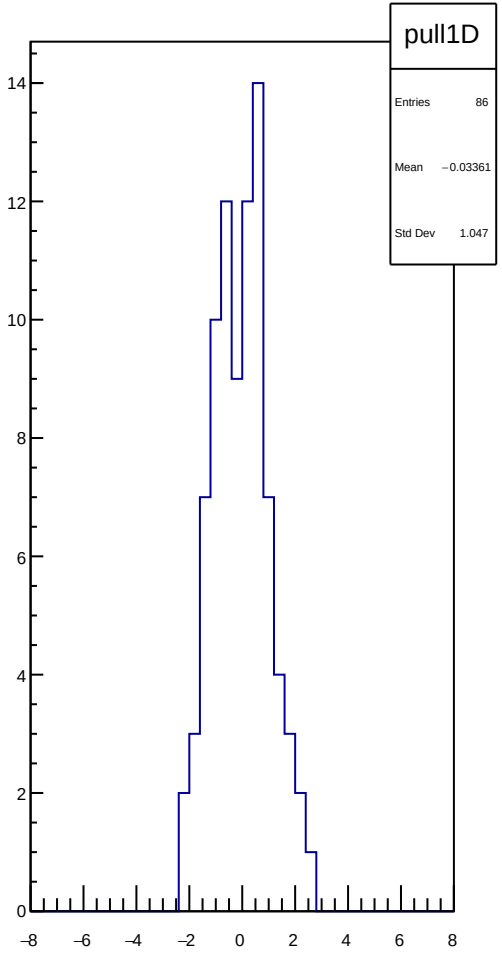

diff_bpm0l08X_rms vs run
χ² / ndf 5.711e+04 / 85
p0 1.107e+04 ± 8.67
24000
22000
20000
18000
16000
14000
12000
10000
8000

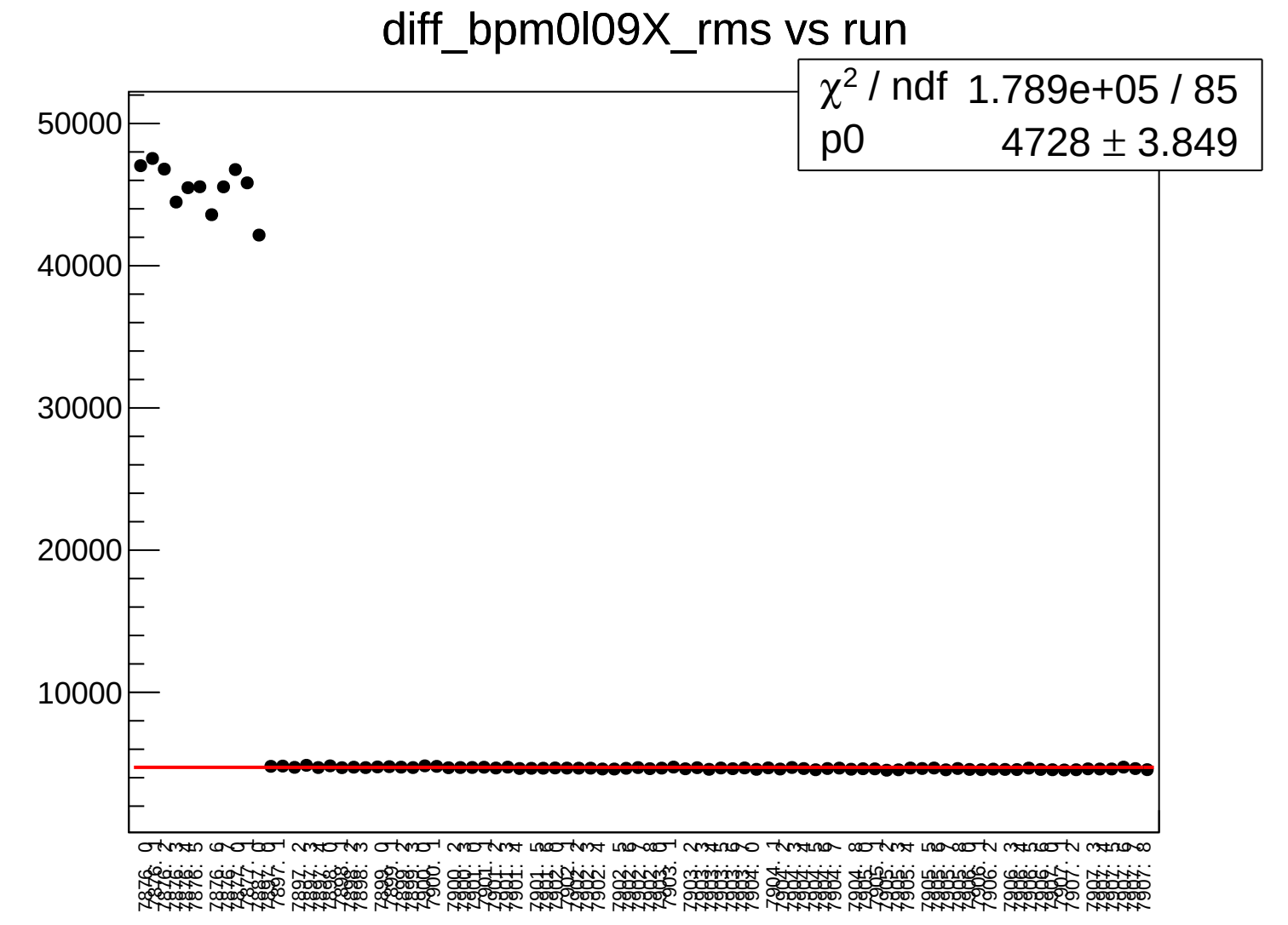

diff_bpm0l08Y_mean vs run
χ^2 / ndf 90.42 / 85
p0 7.582 ± 9.439
600
400
200
0
−200
−400
pull
Entries 86
Mean −32.24
Std Dev 0
2
1
0
−1
−2

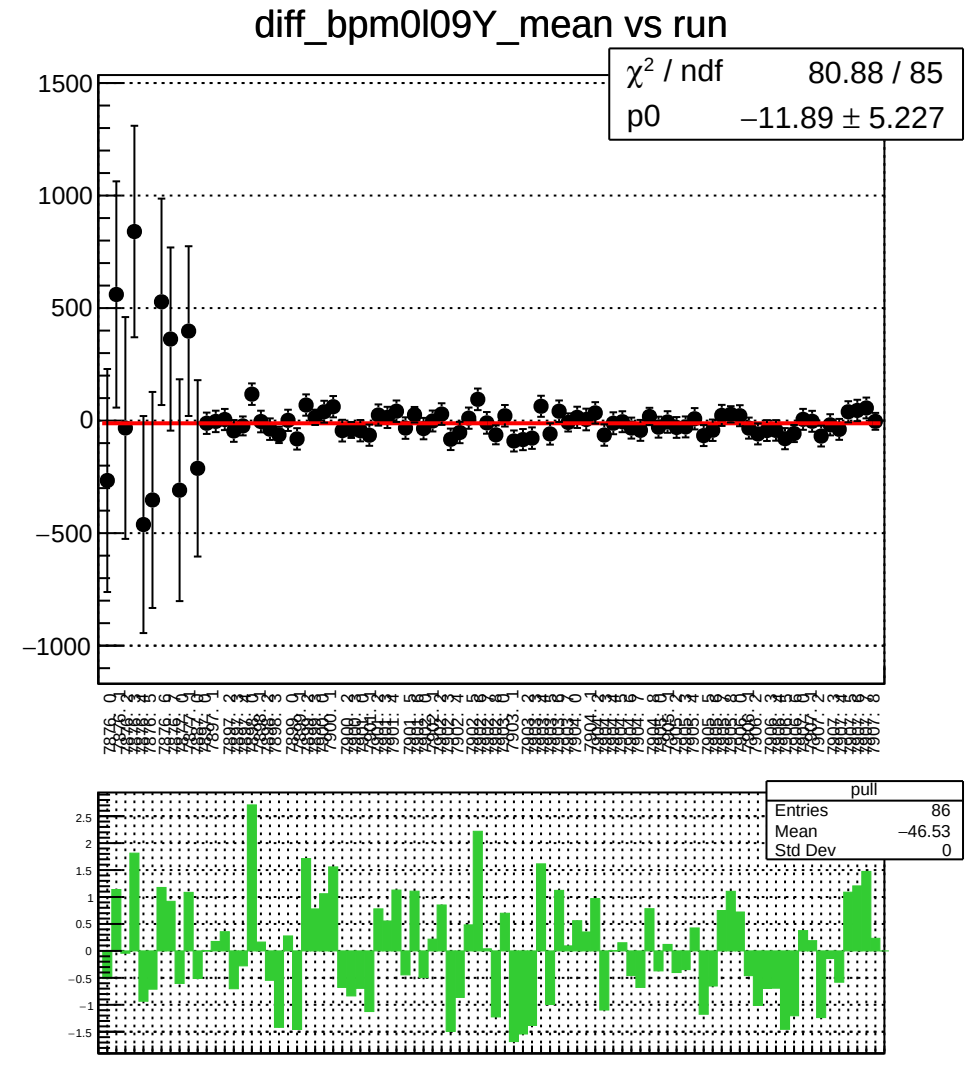

pull1D
Entries 86
Mean 0.04398
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

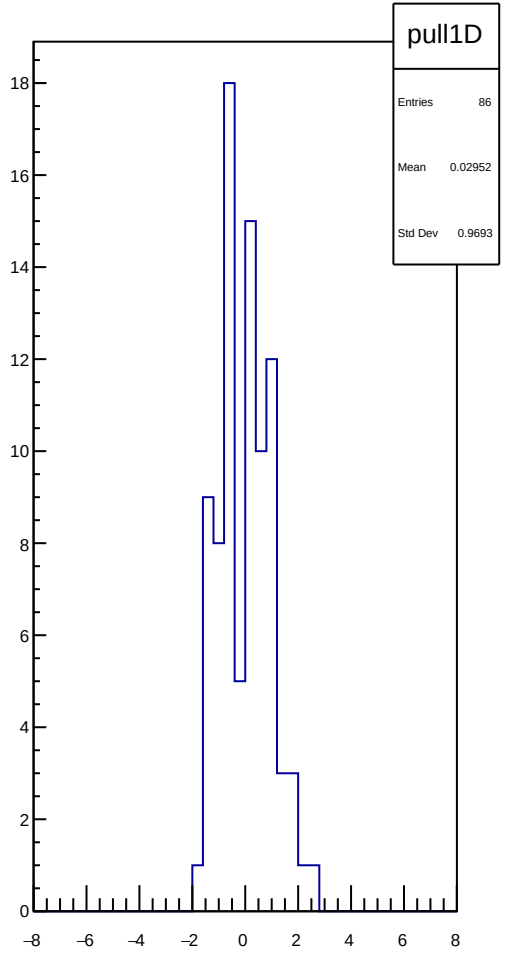

diff_bpm0l08Y_rms vs run
χ² / ndf 6.975e+04 / 85
p0 8490 ± 6.674
20000
18000
16000
14000
12000
10000
8000
6000

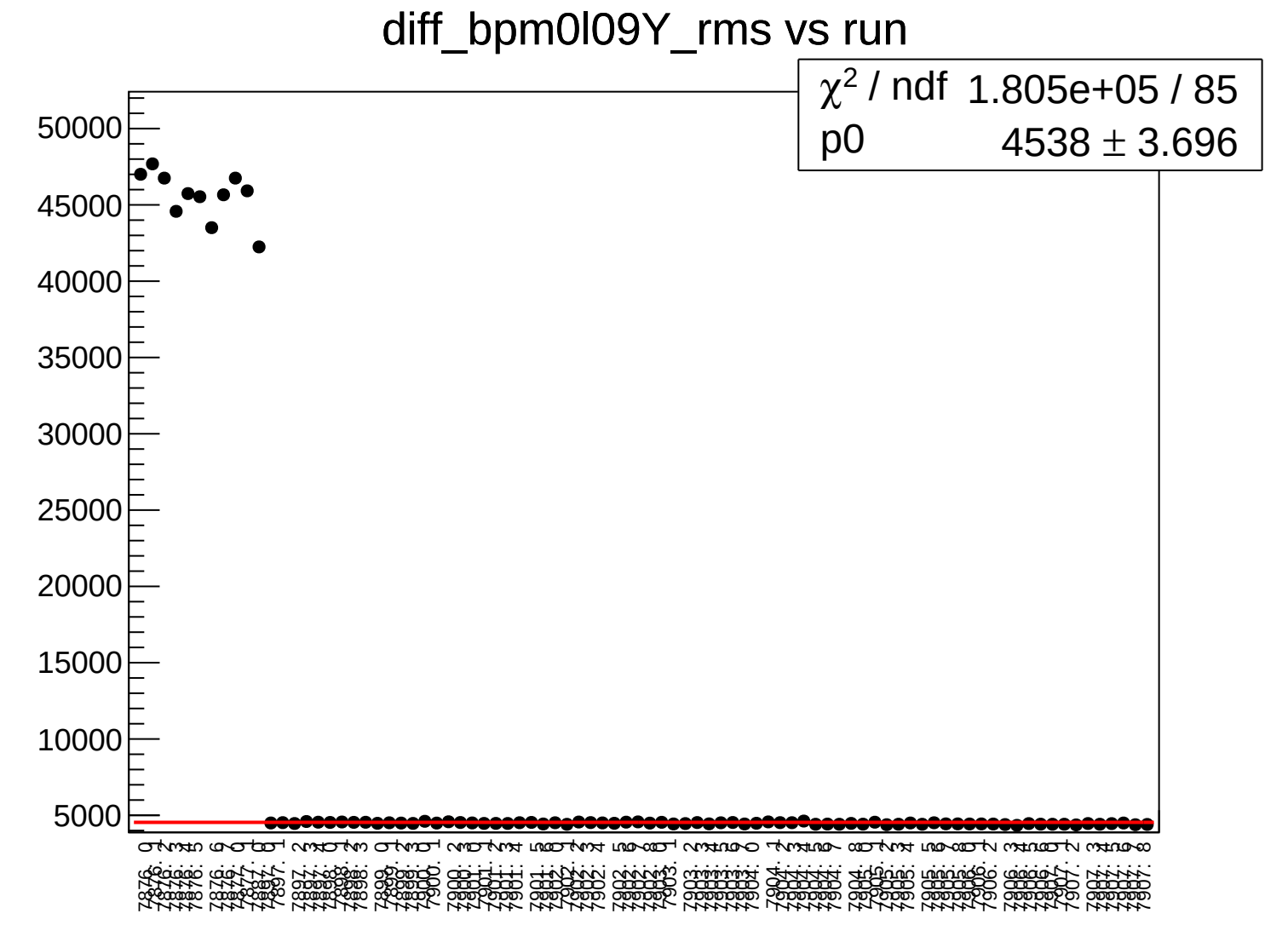

diff_bpm0l09X_mean vs run
χ² / ndf 94.34 / 85
p0 −7.315 ± 5.443
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean −59.69
Std Dev 0
2
1
0
−1
−2

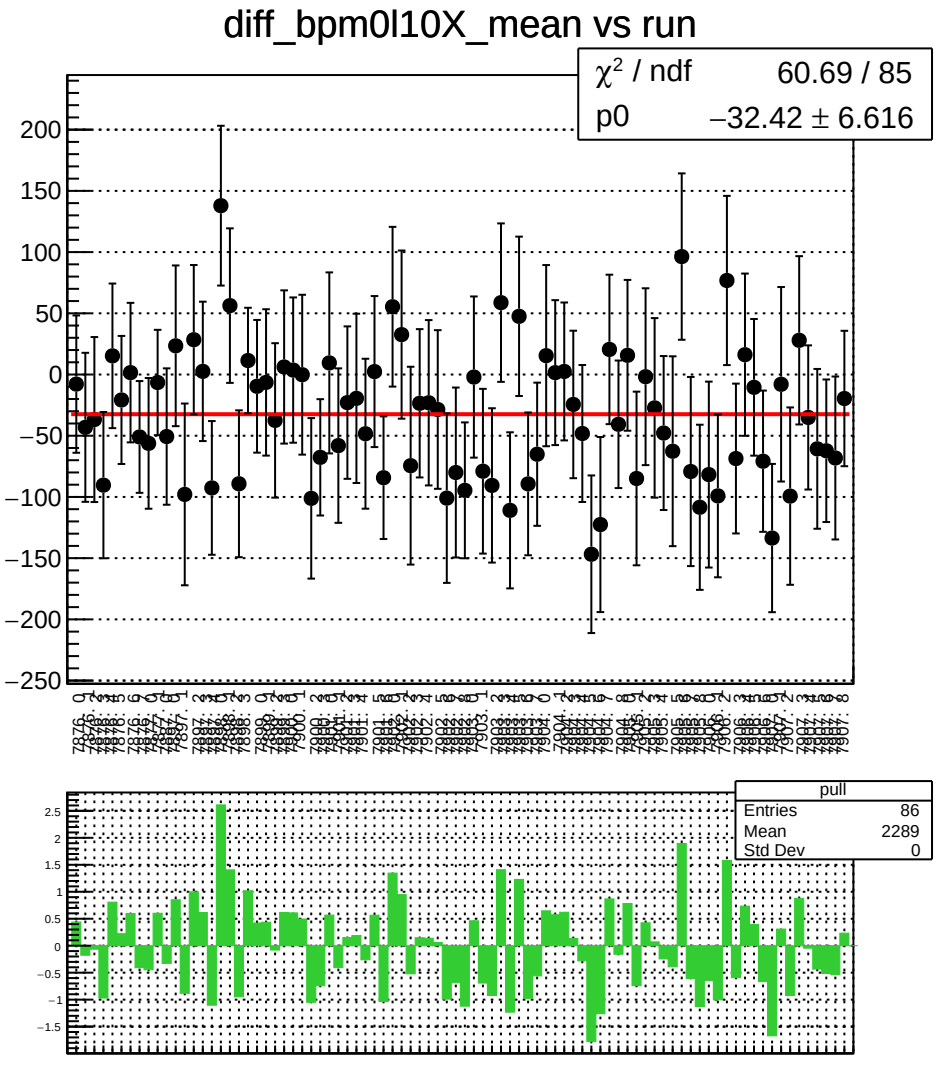

pull1D
Entries 86
Mean −0.03361
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

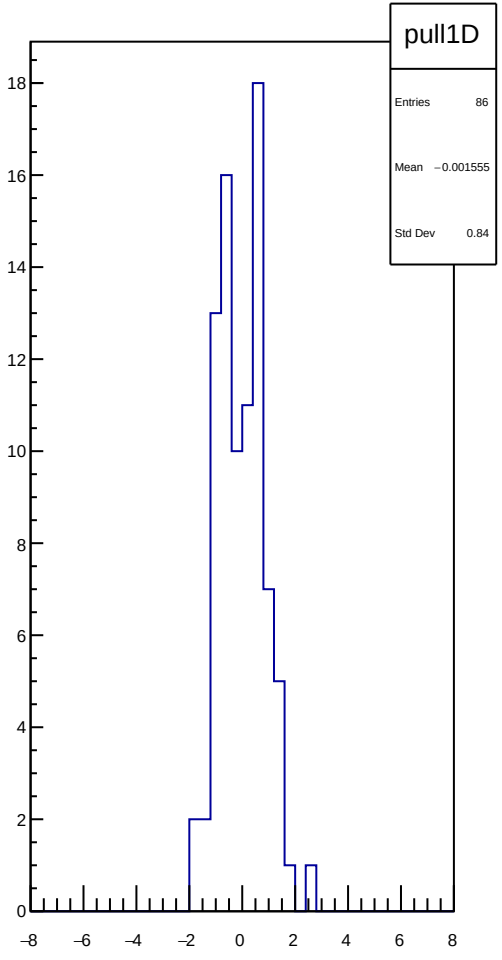

diff_bpm0l09X_rms vs run
χ^2 / ndf 1.789e+05 / 85
p0 4728 ± 3.849
50000
40000
30000
20000
10000

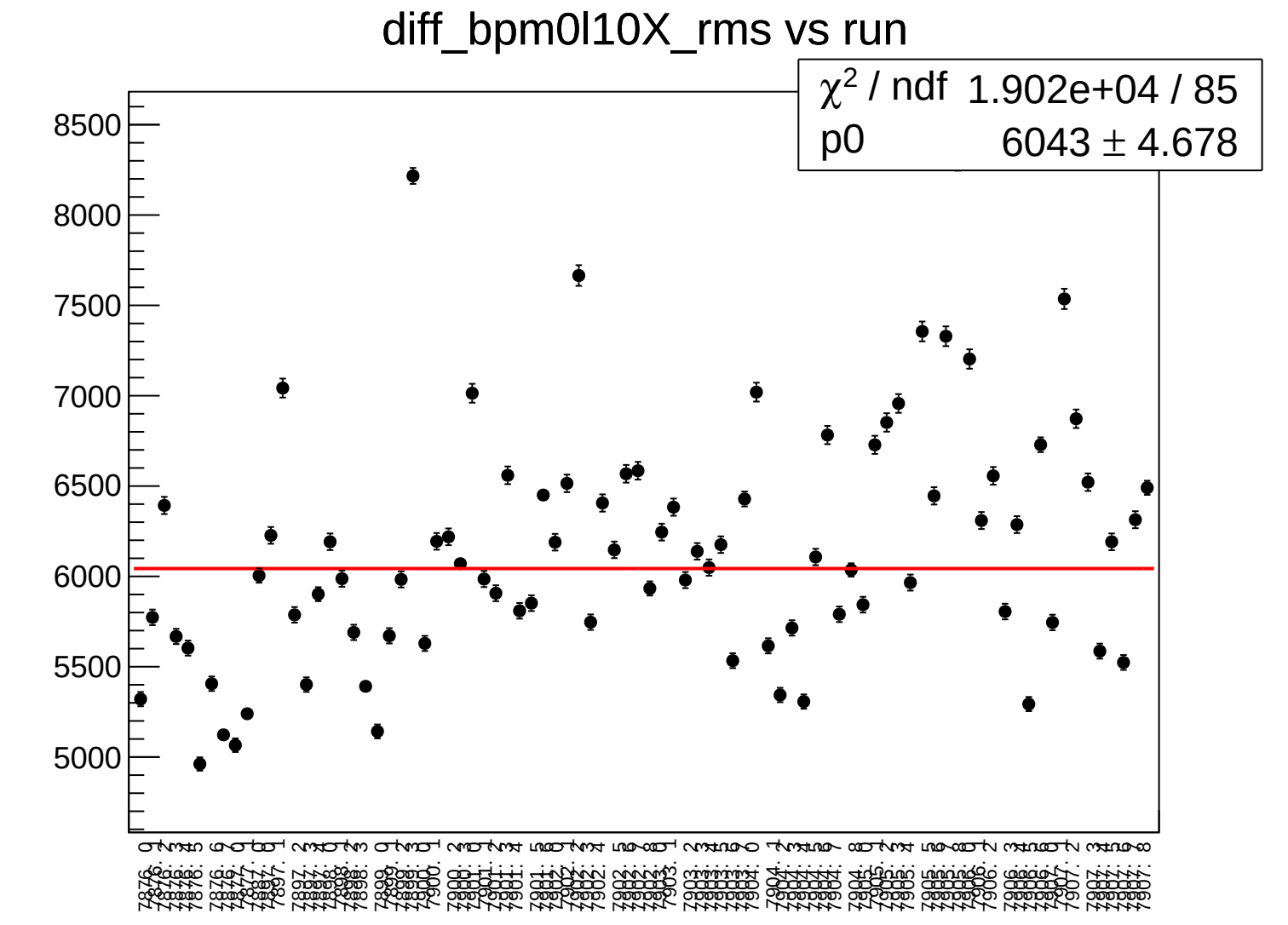

diff_bpm0l09Y_mean vs run
χ² / ndf 80.88 / 85
p0 −11.89 ± 5.227
pull
Entries 86
Mean −46.53
Std Dev 0

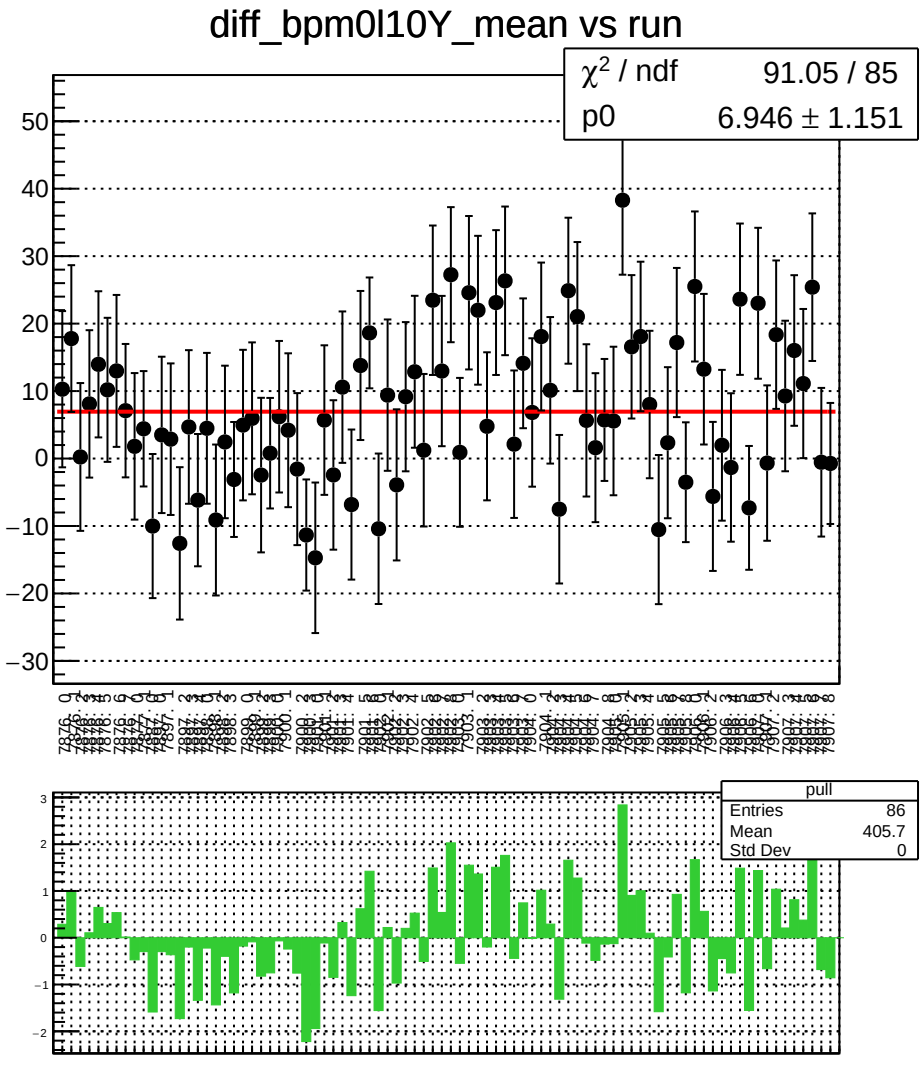

pull1D
Entries 86
Mean 0.02952
Std Dev 0.9693

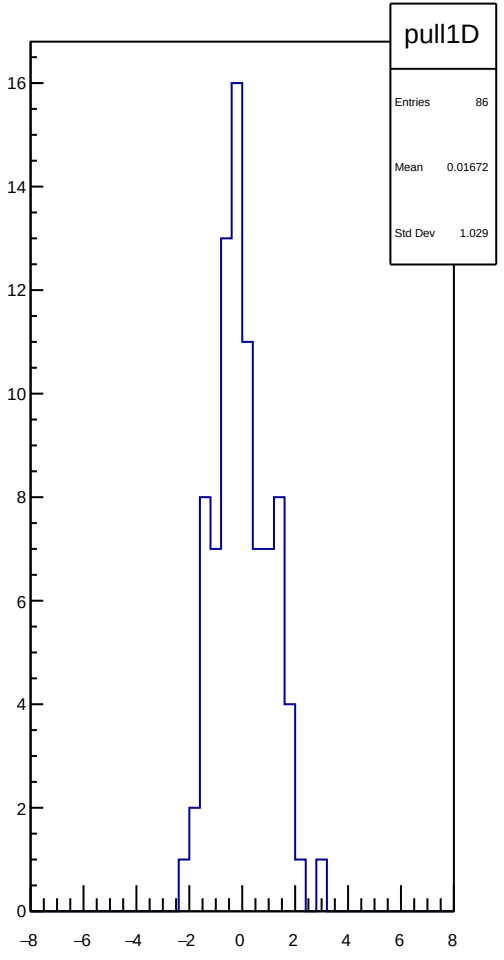

diff_bpm0l09Y_rms vs run
χ^2 / ndf 1.805e+05 / 85
p0 4538 ± 3.696
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000

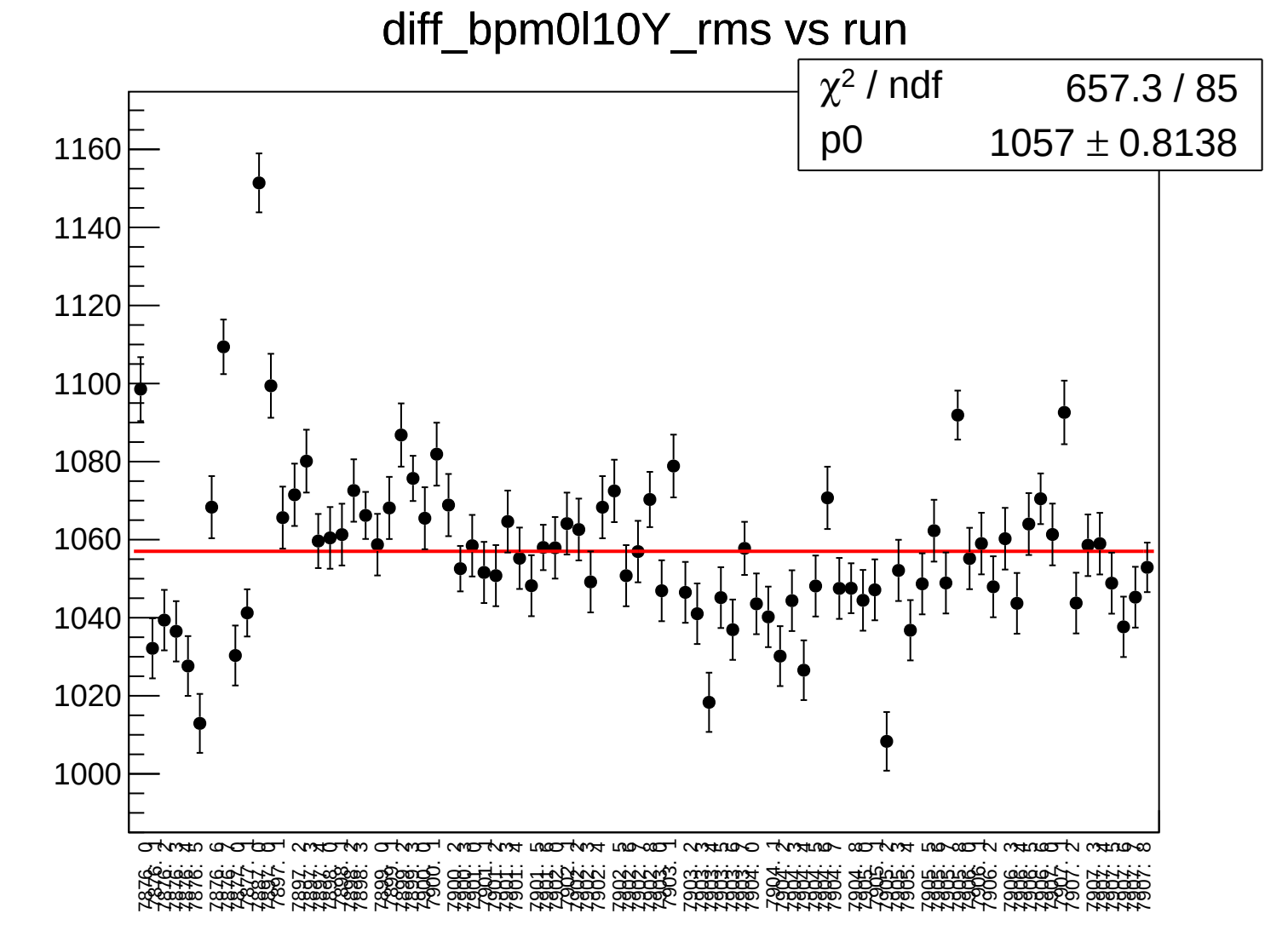

diff_bpm0l10X_mean vs run
χ^2 / ndf 60.69 / 85
p0 −32.42 ± 6.616
pull
Entries 86
Mean 2289
Std Dev 0

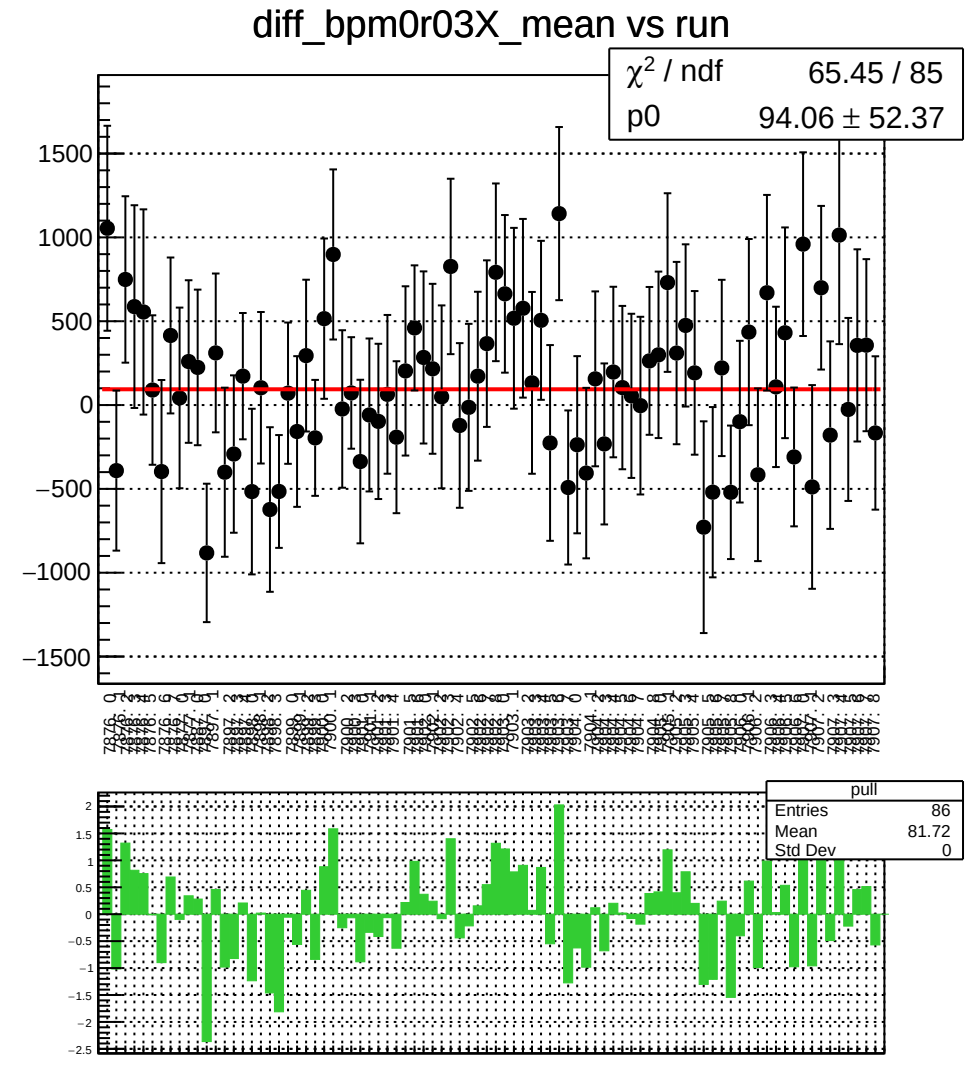

pull1D
Entries 86
Mean −0.001555
Std Dev 0.84

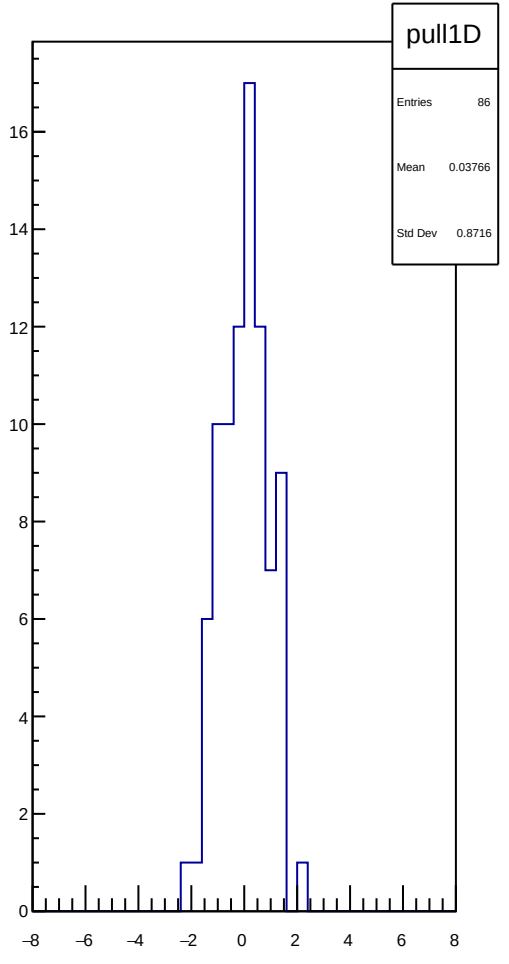

diff_bpm0l10X_rms vs run
χ² / ndf 1.902e+04 / 85
p0 6043 ± 4.678
8500
8000
7500
7000
6500
6000
5500
5000

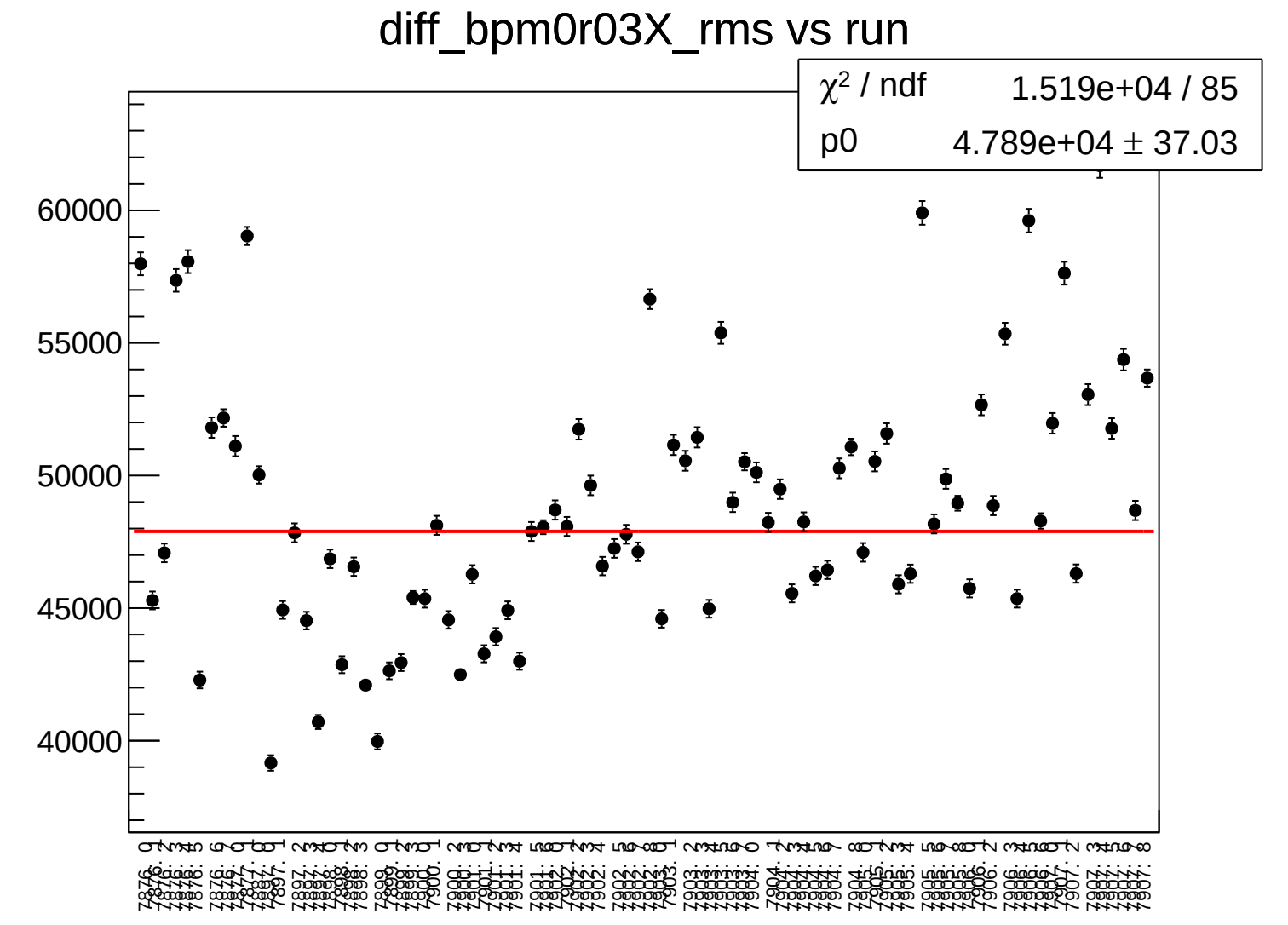

diff_bpm0l10Y_mean vs run
χ^2 / ndf 91.05 / 85
p0 6.946 ± 1.151
pull
Entries 86
Mean 405.7
Std Dev 0

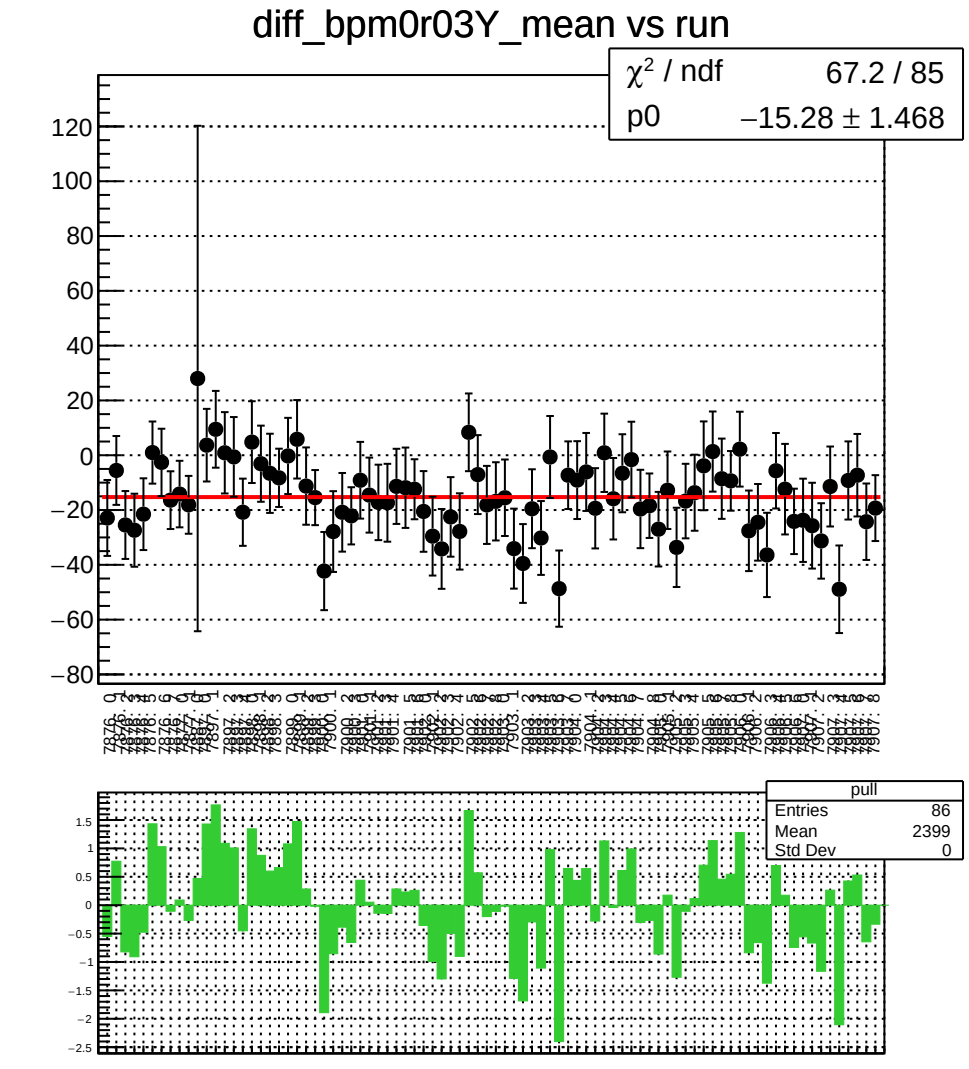

pull1D
Entries 86
Mean 0.01672
Std Dev 1.029

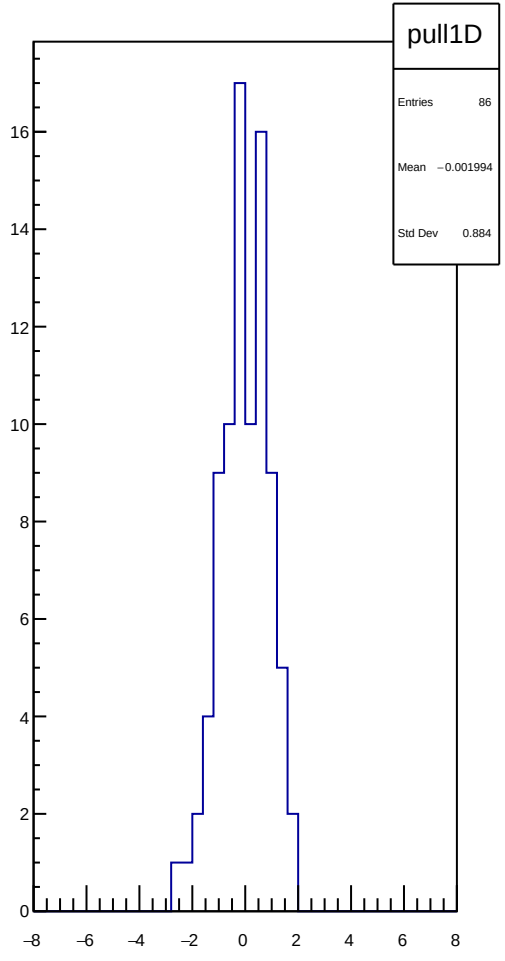

diff_bpm0l10Y_rms vs run
χ² / ndf 657.3 / 85
p0 1057 ± 0.8138
1160
1140
1120
1100
1080
1060
1040
1020
1000

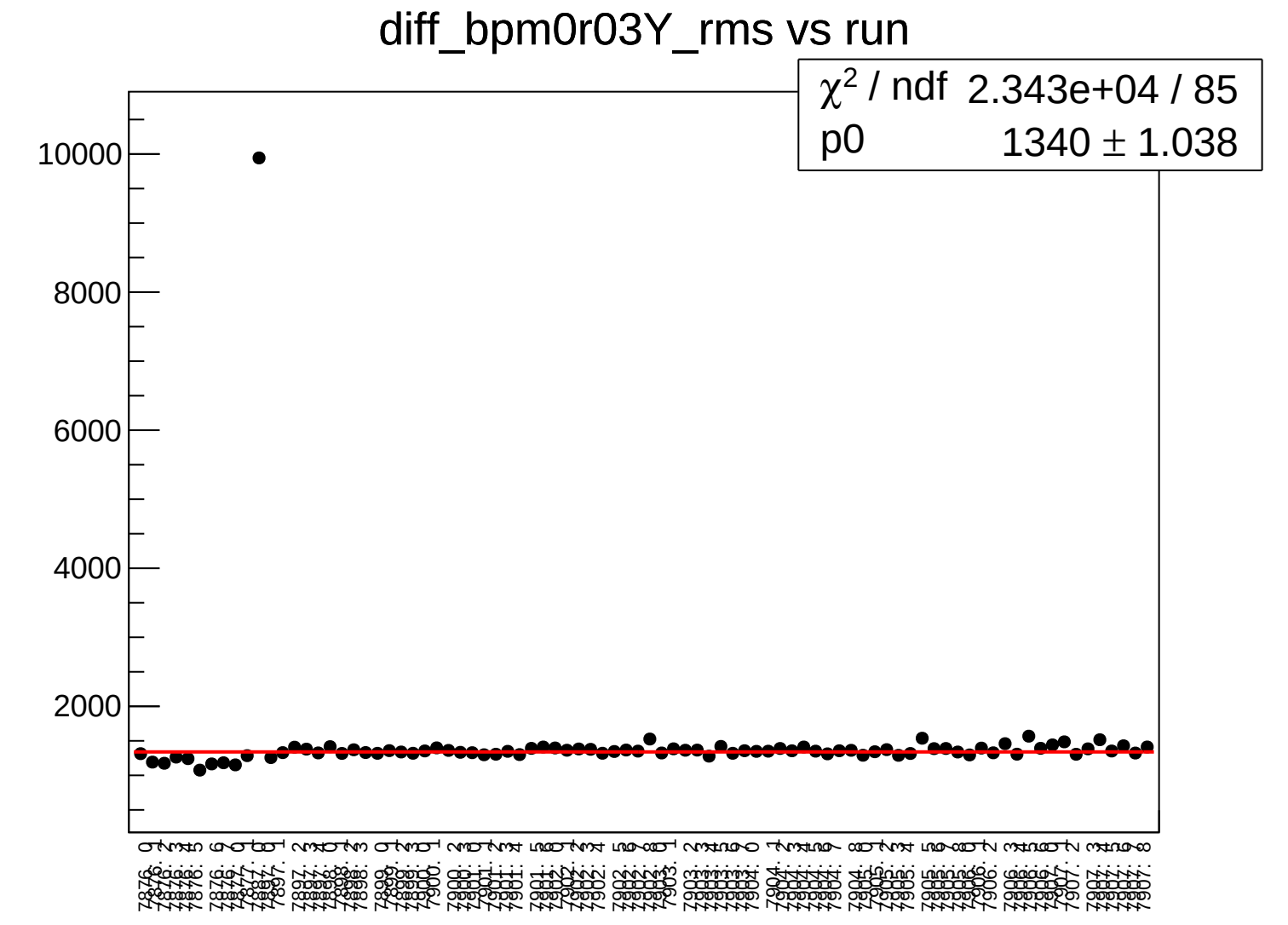

diff_bpm0r03X_mean vs run
χ² / ndf 65.45 / 85
p0 94.06 ± 52.37
pull
Entries 86
Mean 81.72
Std Dev 0

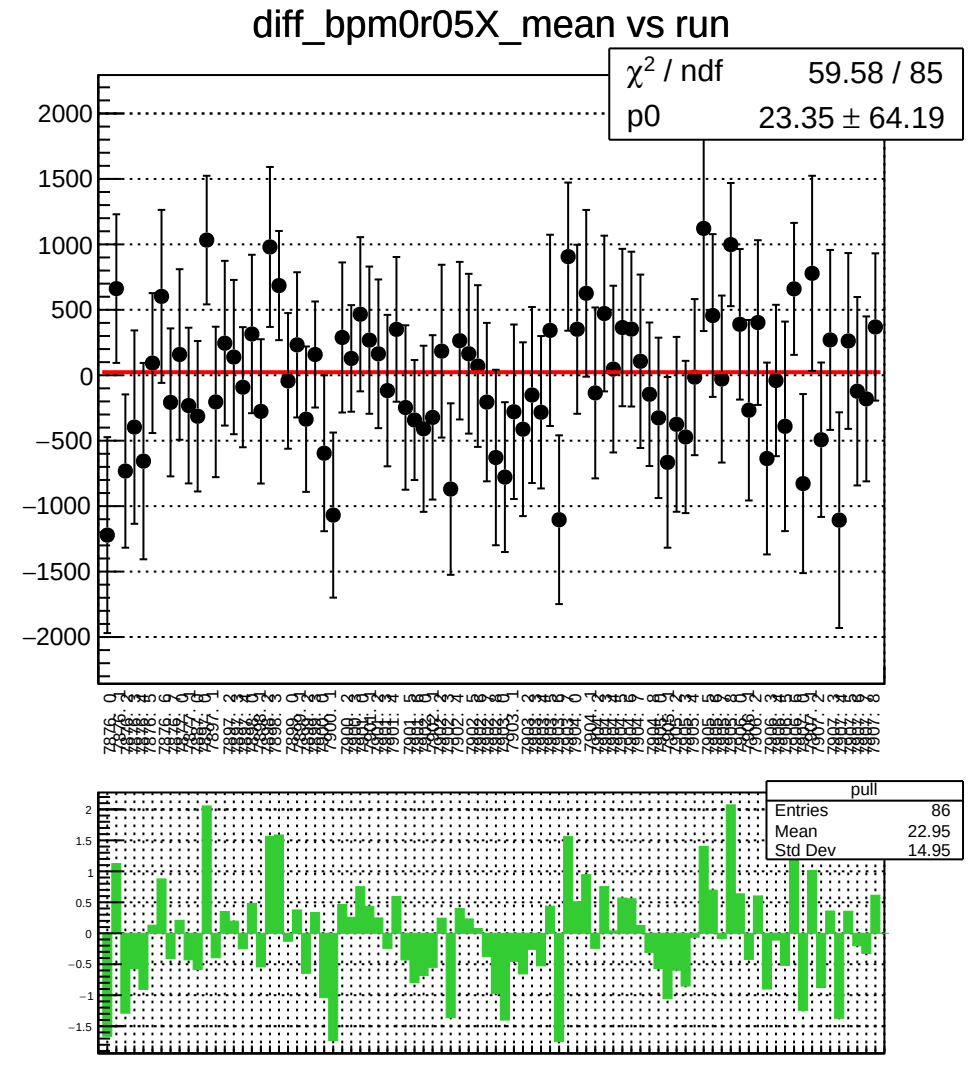

pull1D
Entries 86
Mean 0.03766
Std Dev 0.8716

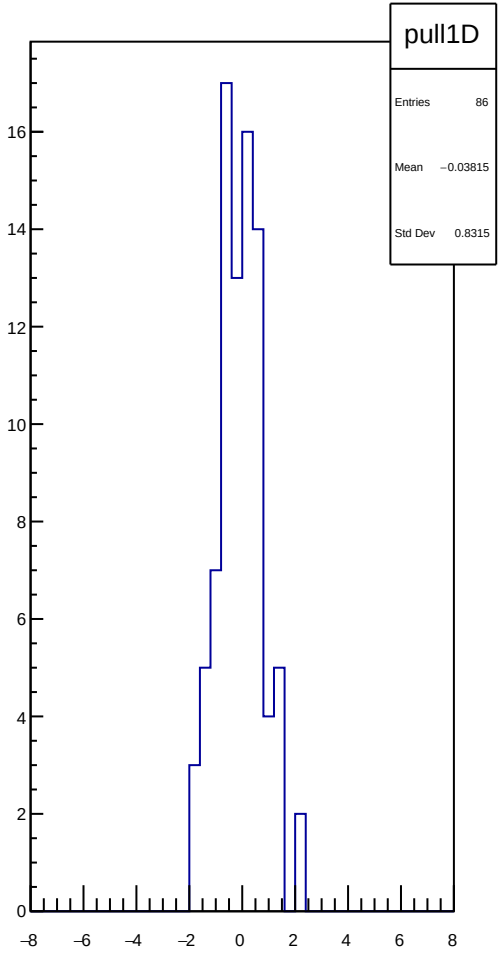

diff_bpm0r03X_rms vs run
χ² / ndf 1.519e+04 / 85
p0 4.789e+04 ± 37.03
60000
55000
50000
45000
40000

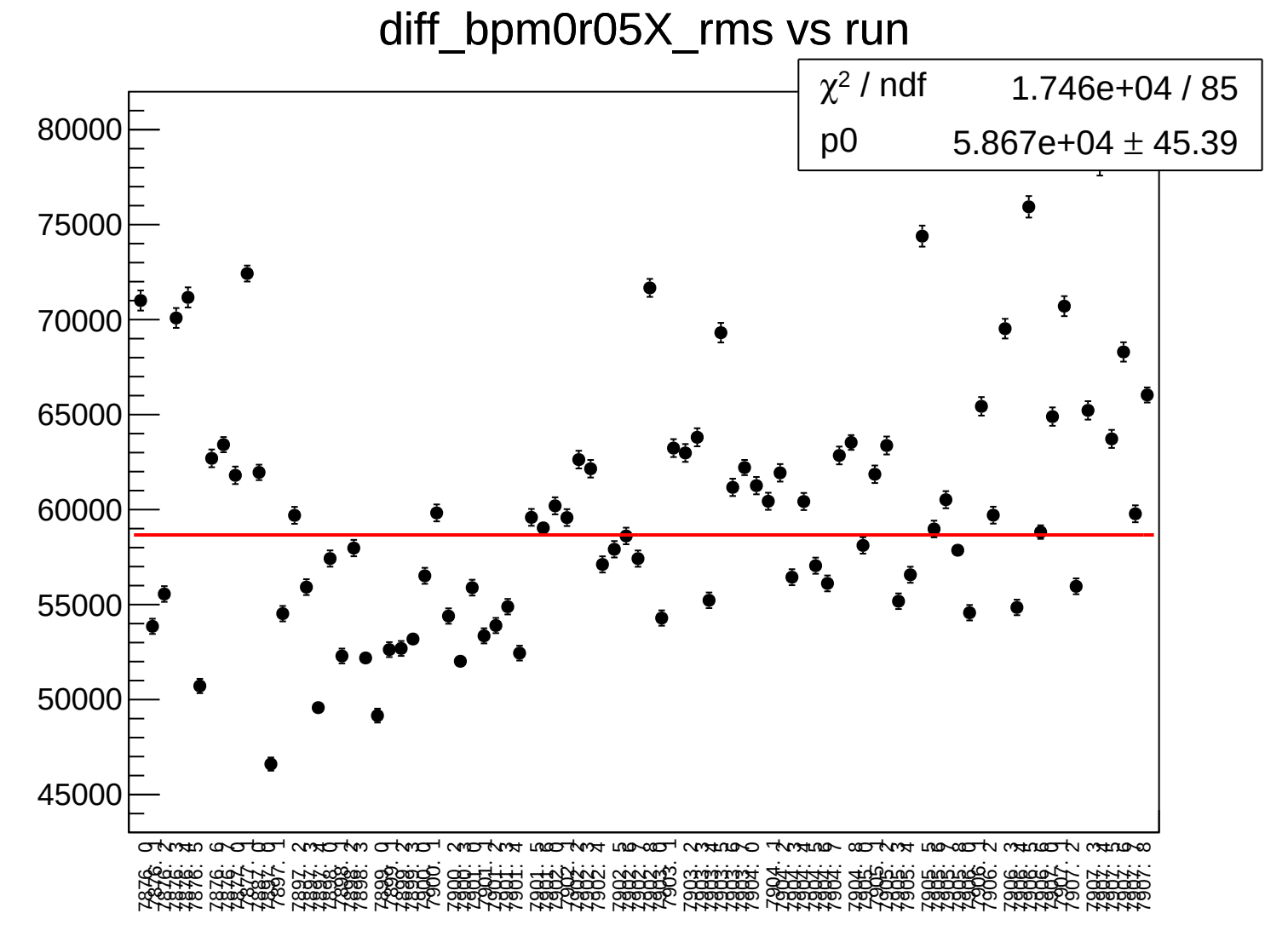

diff_bpm0r03Y_mean vs run
χ^2 / ndf 67.2 / 85
p0 −15.28 ± 1.468
pull
Entries 86
Mean 2399
Std Dev 0

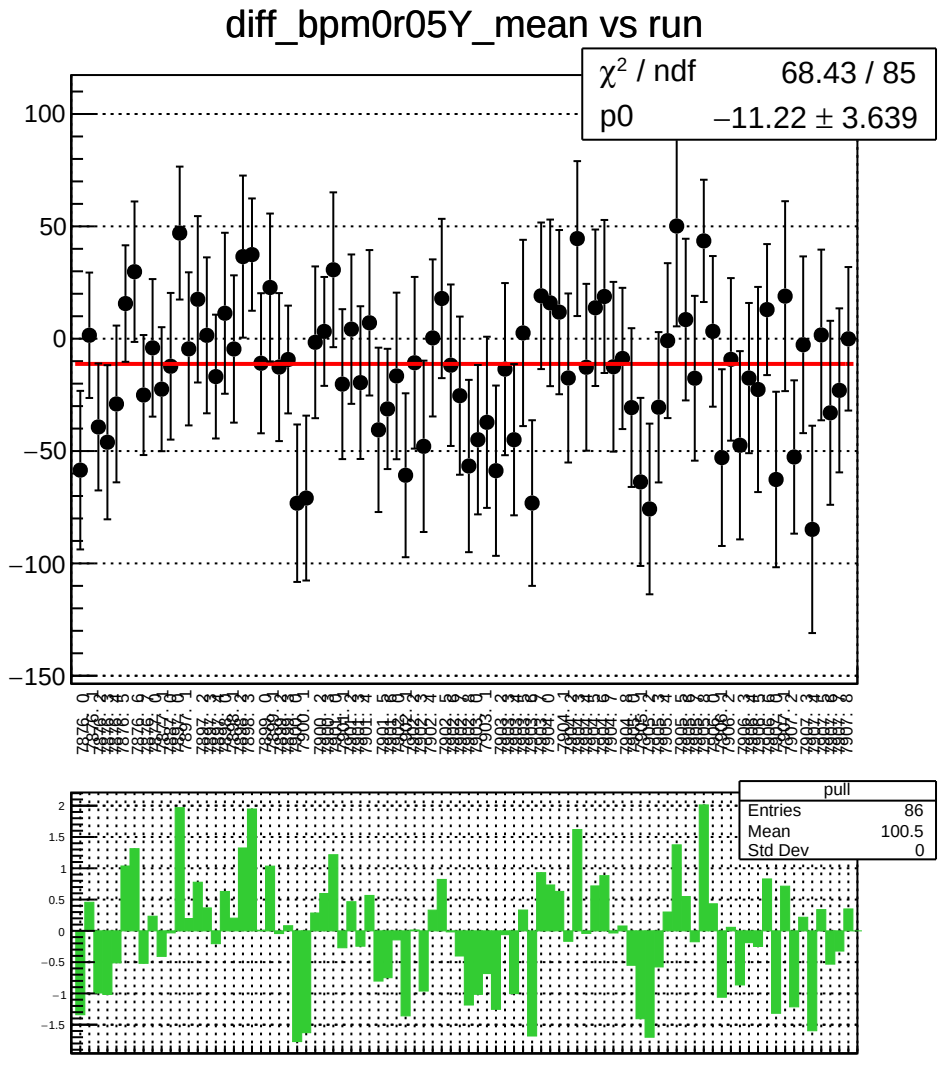

pull1D
Entries 86
Mean −0.001994
Std Dev 0.884

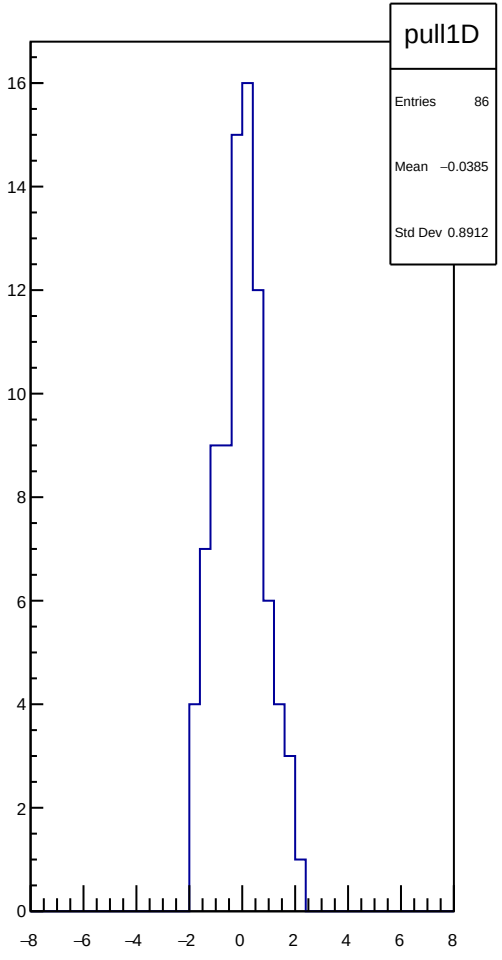

diff_bpm0r03Y_rms vs run
χ² / ndf 2.343e+04 / 85
p0 1340 ± 1.038
10000
8000
6000
4000
2000

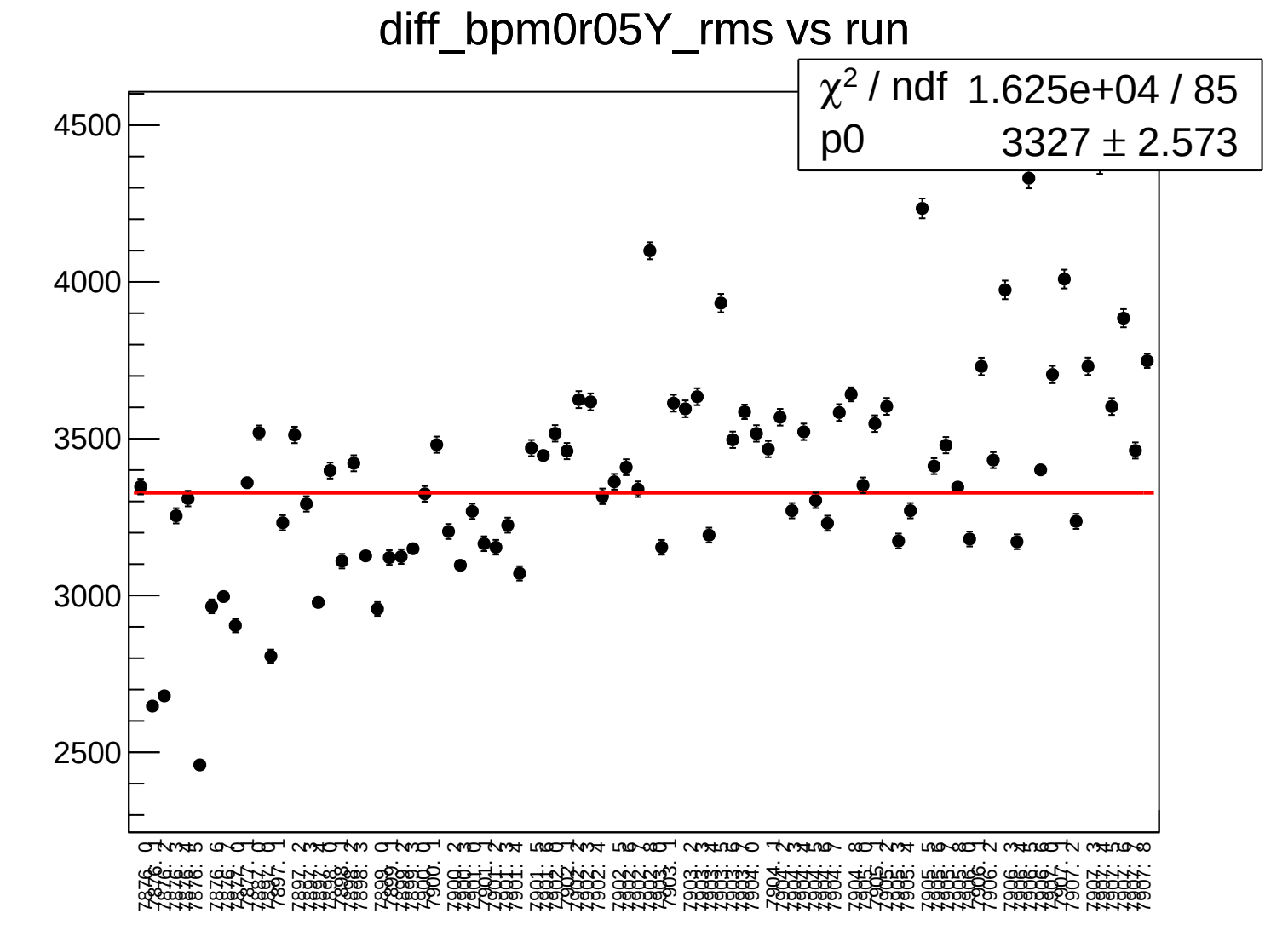

diff_bpm0r05X_mean vs run
χ^2 / ndf 59.58 / 85
p0 23.35 ± 64.19
pull
Entries 86
Mean 22.95
Std Dev 14.95

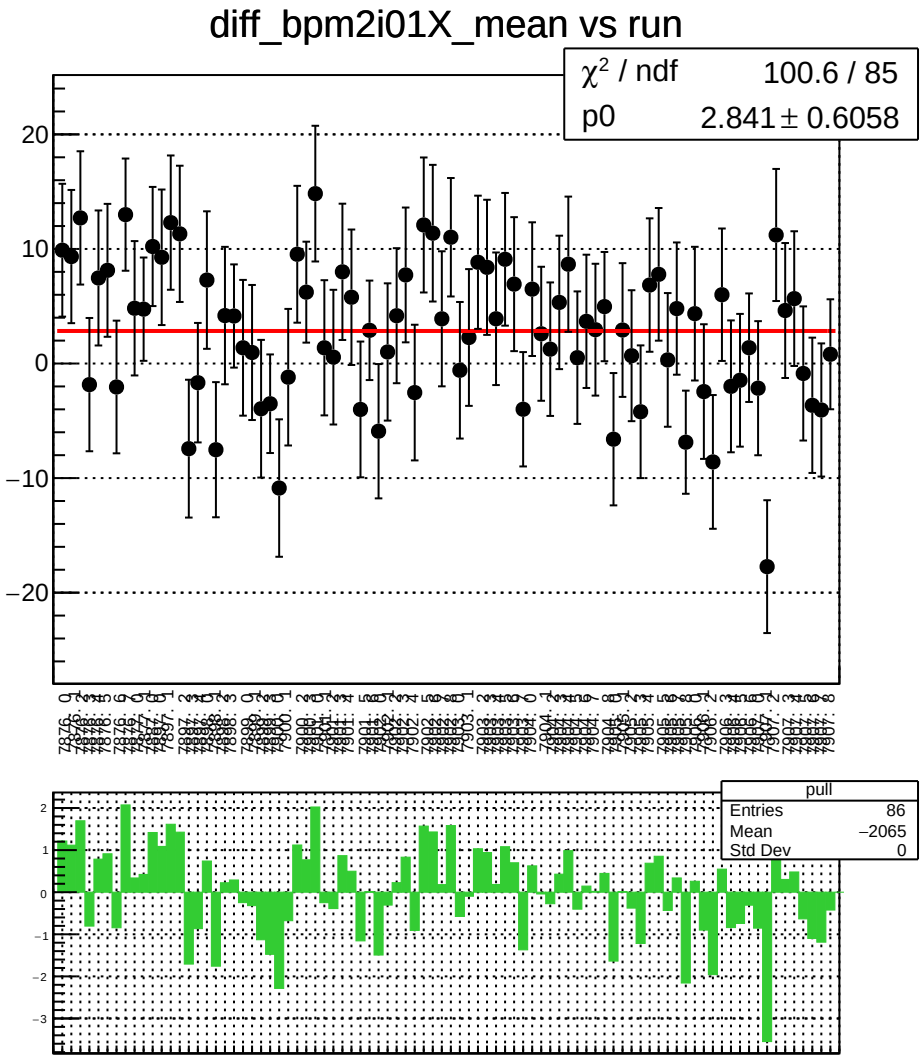

pull1D
Entries 86
Mean −0.03815
Std Dev 0.8315

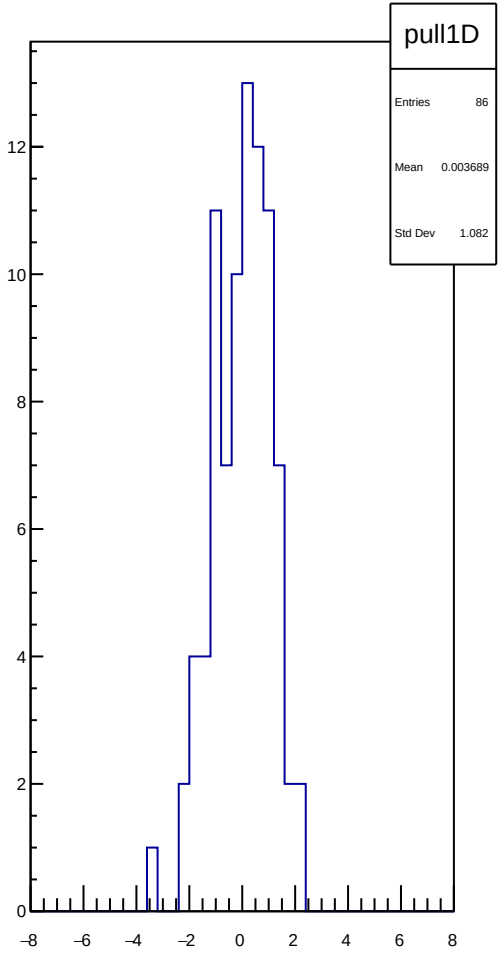

diff_bpm0r05X_rms vs run
χ² / ndf 1.746e+04 / 85
p0 5.867e+04 ± 45.39
80000
75000
70000
65000
60000
55000
50000
45000

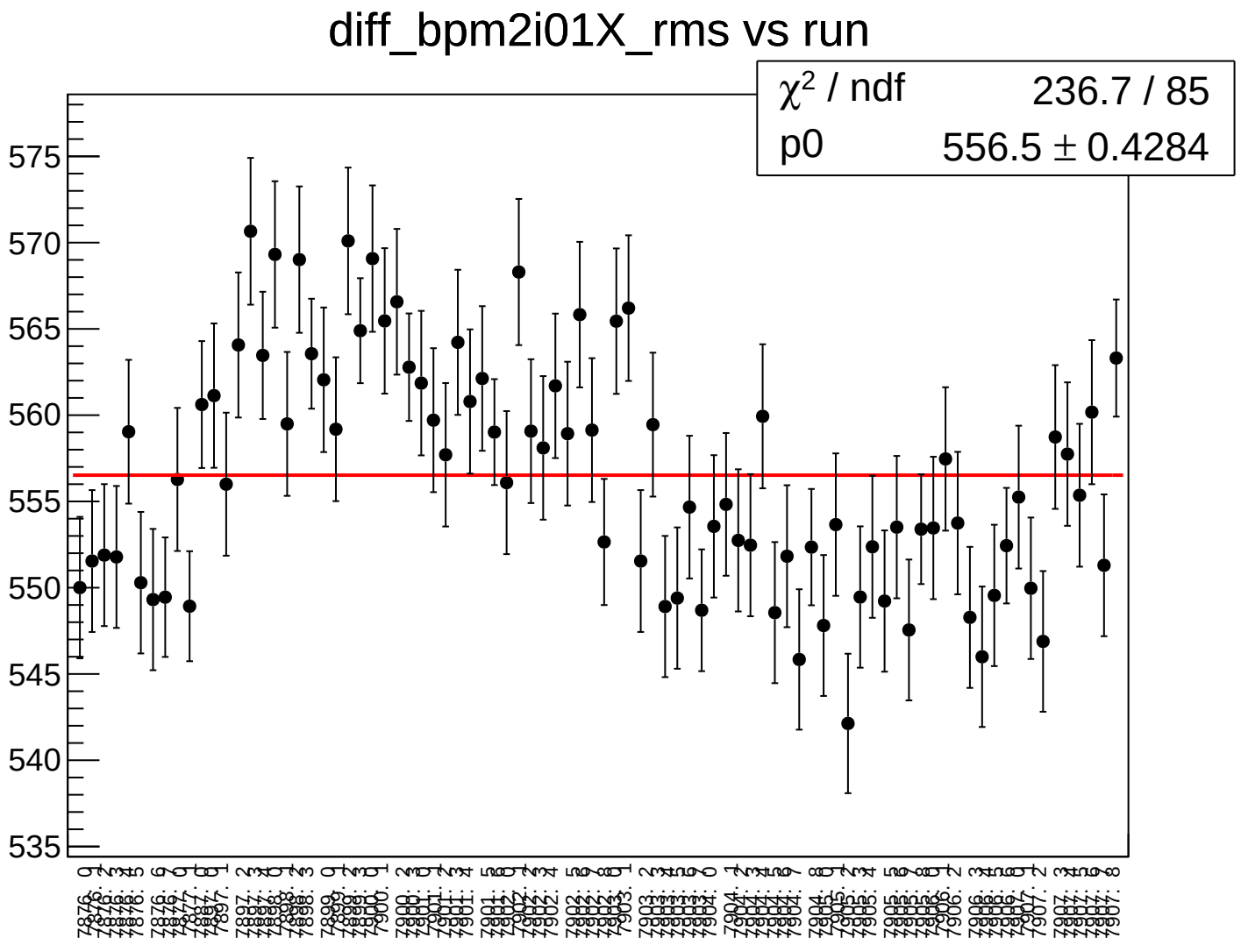

diff_bpm0r05Y_mean vs run
χ² / ndf 68.43 / 85
p0 −11.22 ± 3.639
pull
Entries 86
Mean 100.5
Std Dev 0

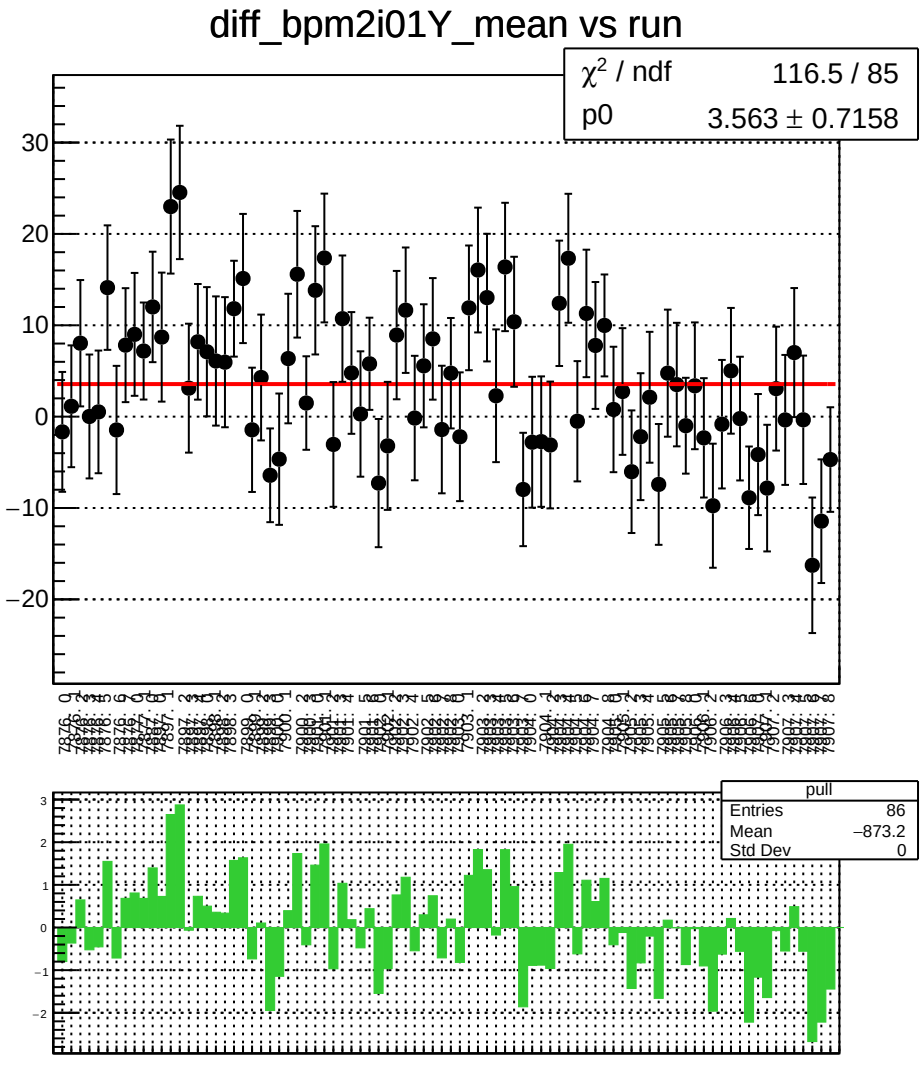

pull1D
Entries 86
Mean −0.0385
Std Dev 0.8912

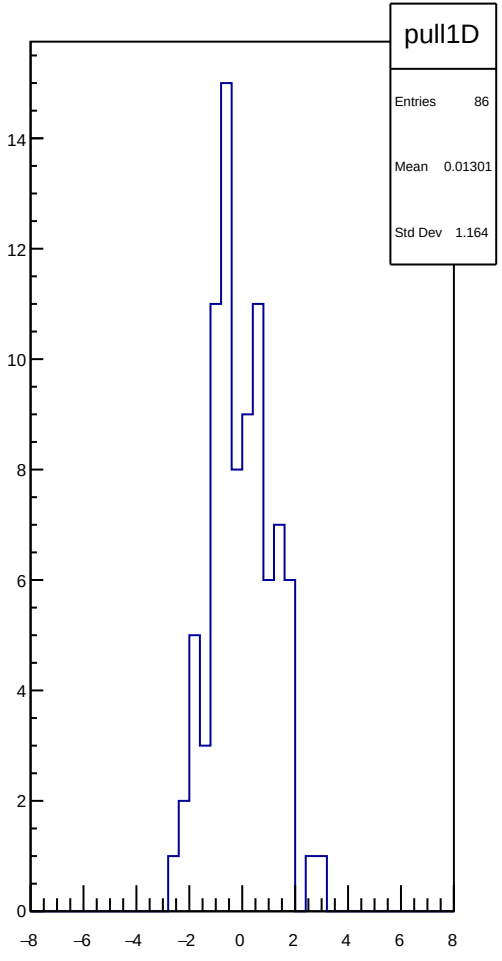

diff_bpm0r05Y_rms vs run
χ² / ndf 1.625e+04 / 85
p0 3327 ± 2.573
4500
4000
3500
3000
2500

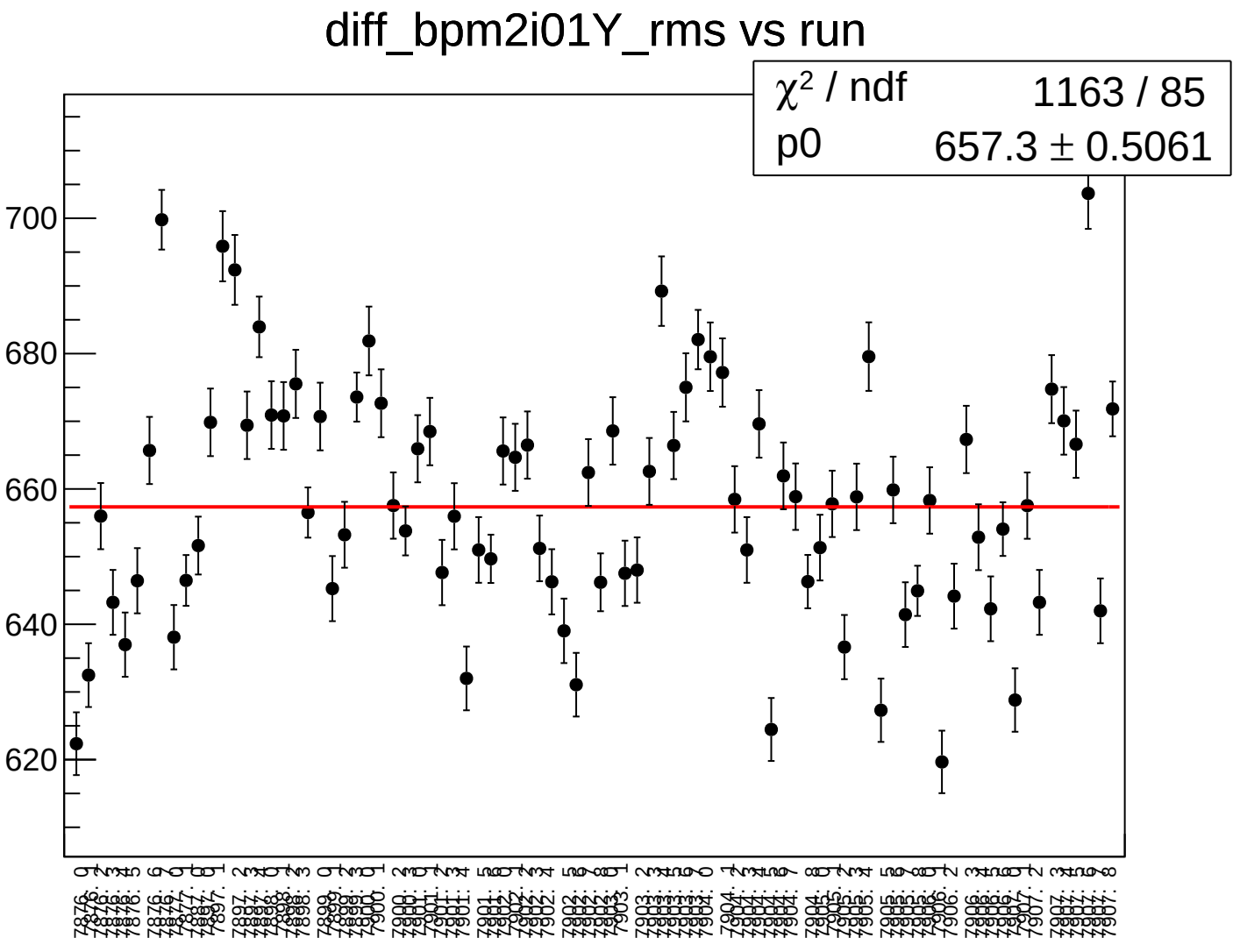

diff_bpm2i01X_mean vs run
χ^2 / ndf 100.6 / 85
p0 2.841 ± 0.6058
pull
Entries 86
Mean −2065
Std Dev 0

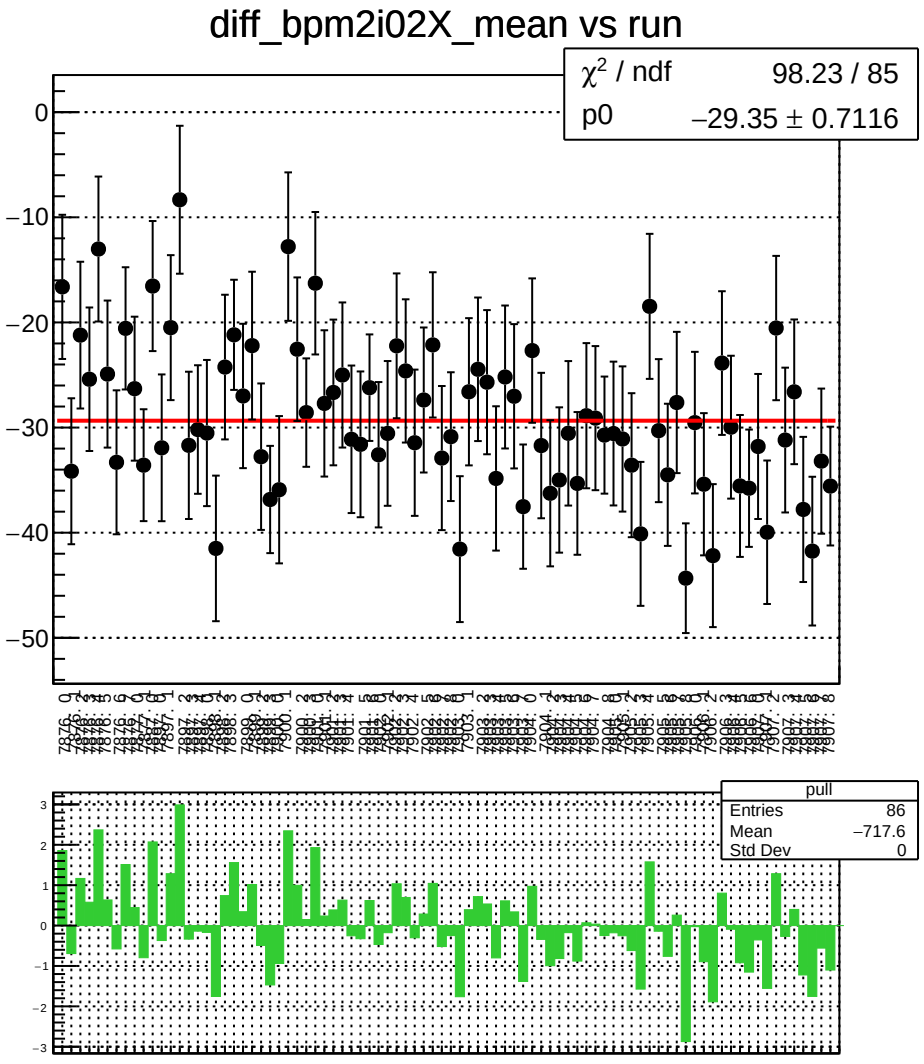

pull1D
Entries 86
Mean 0.003689
Std Dev 1.082

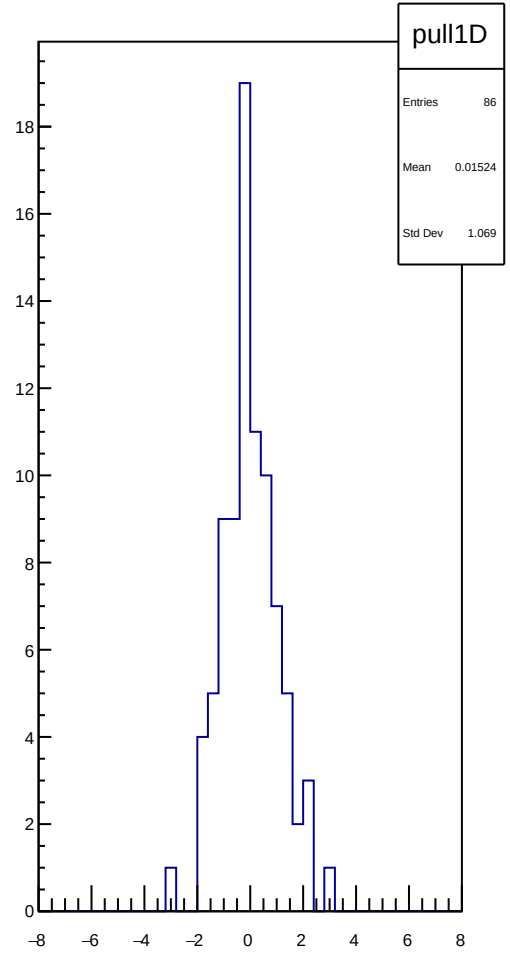

diff_bpm2i01X_rms vs run
χ² / ndf 236.7 / 85
p0 556.5 ± 0.4284
575
570
565
560
555
550
545
540
535

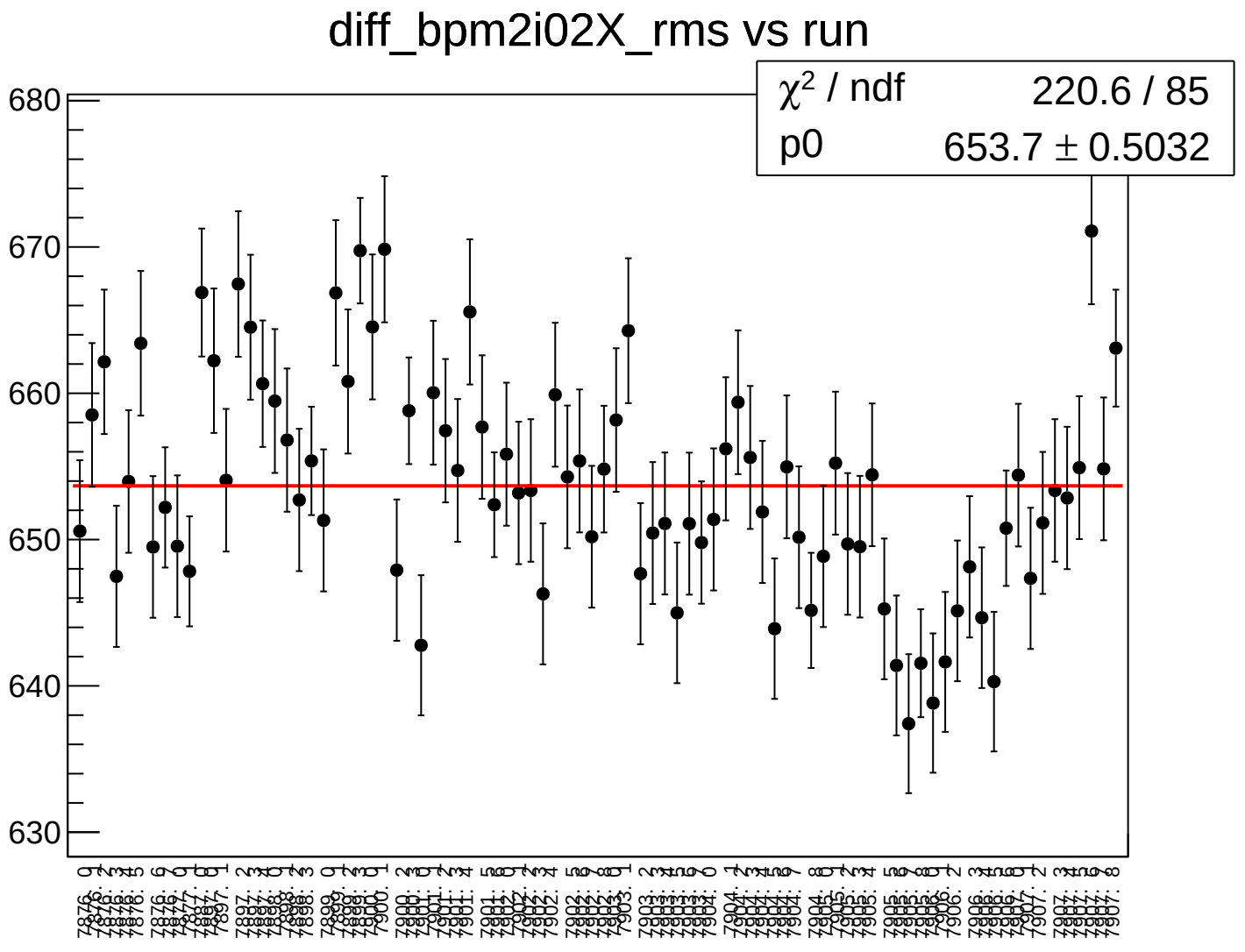

diff_bpm2i01Y_mean vs run
χ² / ndf 116.5 / 85
p0 3.563 ± 0.7158
pull
Entries 86
Mean −873.2
Std Dev 0

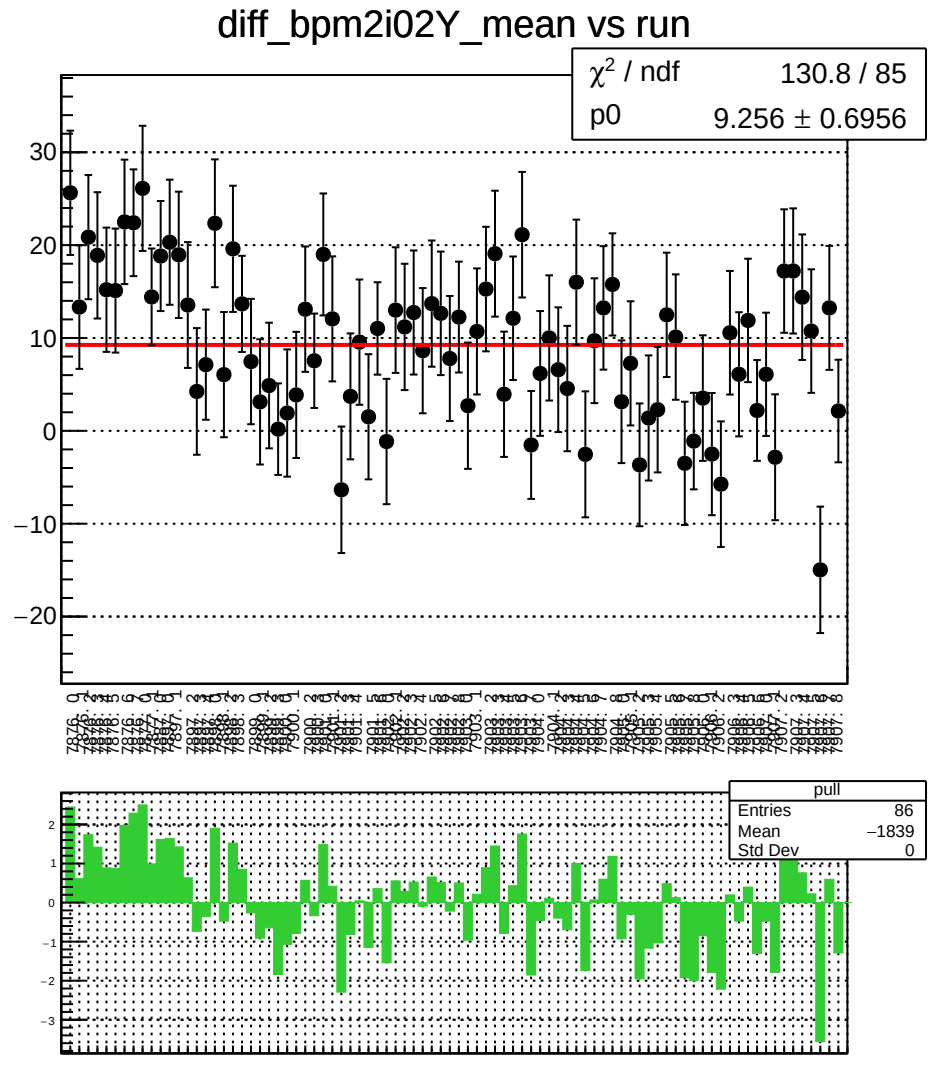

pull1D
Entries 86
Mean 0.01301
Std Dev 1.164

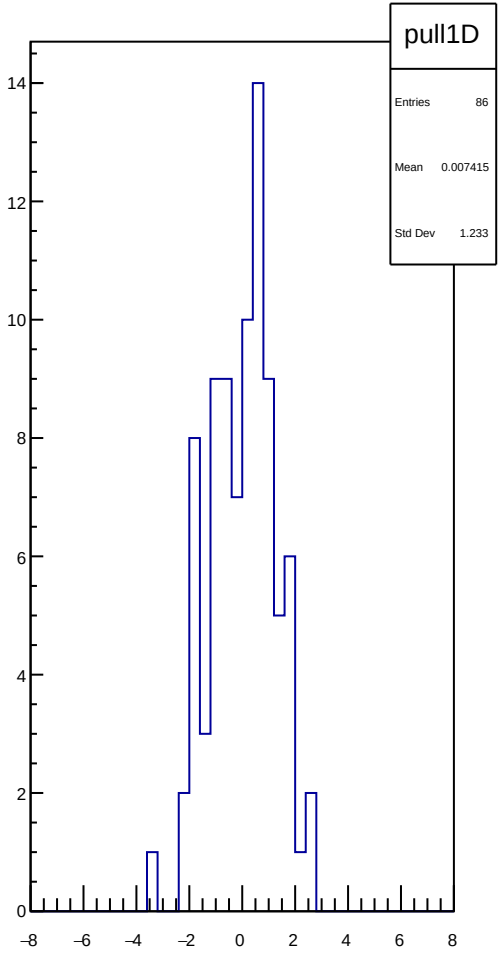

diff_bpm2i01Y_rms vs run
χ² / ndf 1163 / 85
p0 657.3 ± 0.5061
700
680
660
640
620

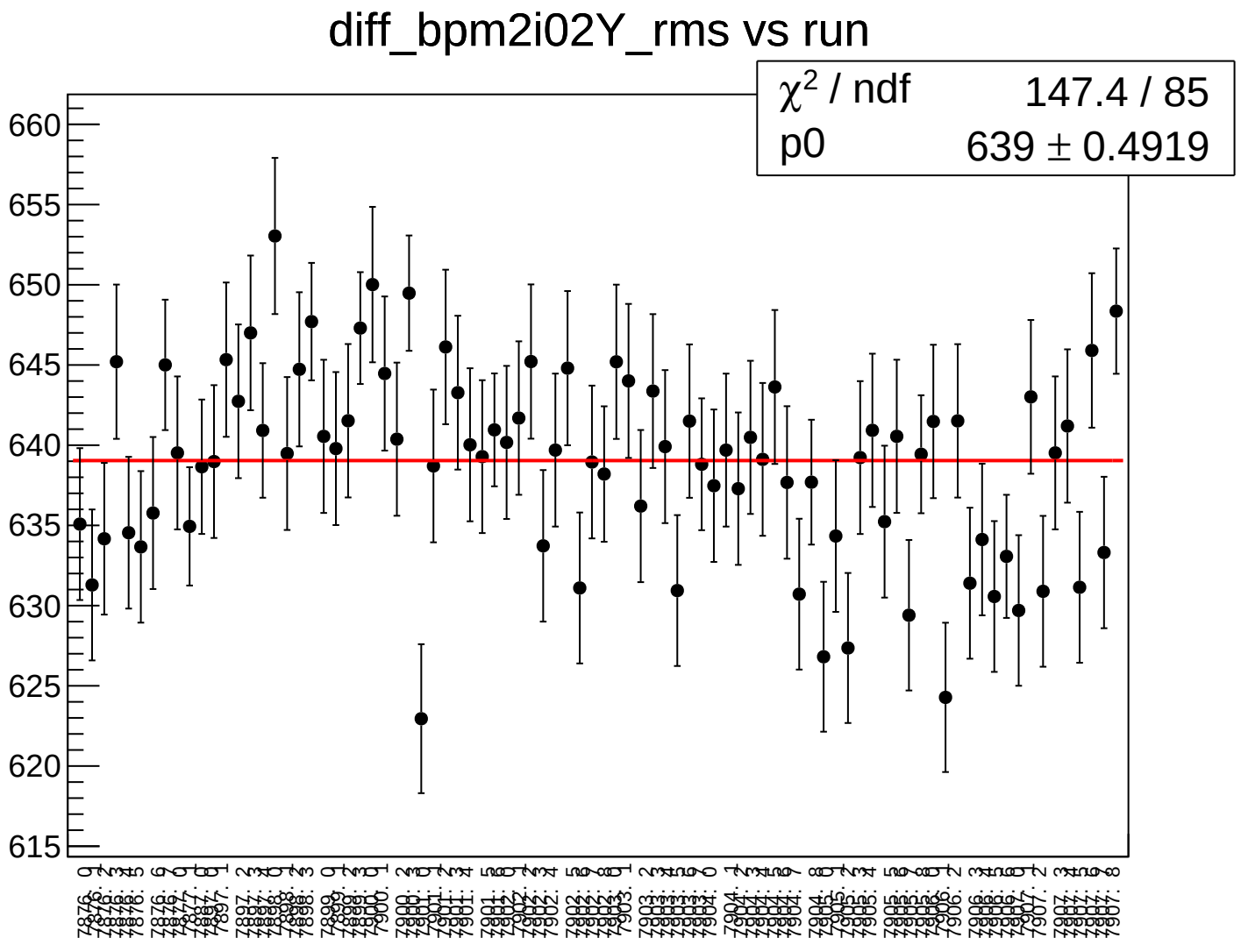

diff_bpm2i02X_mean vs run
χ^2 / ndf 98.23 / 85
p0 −29.35 ± 0.7116
pull
Entries 86
Mean −717.6
Std Dev 0

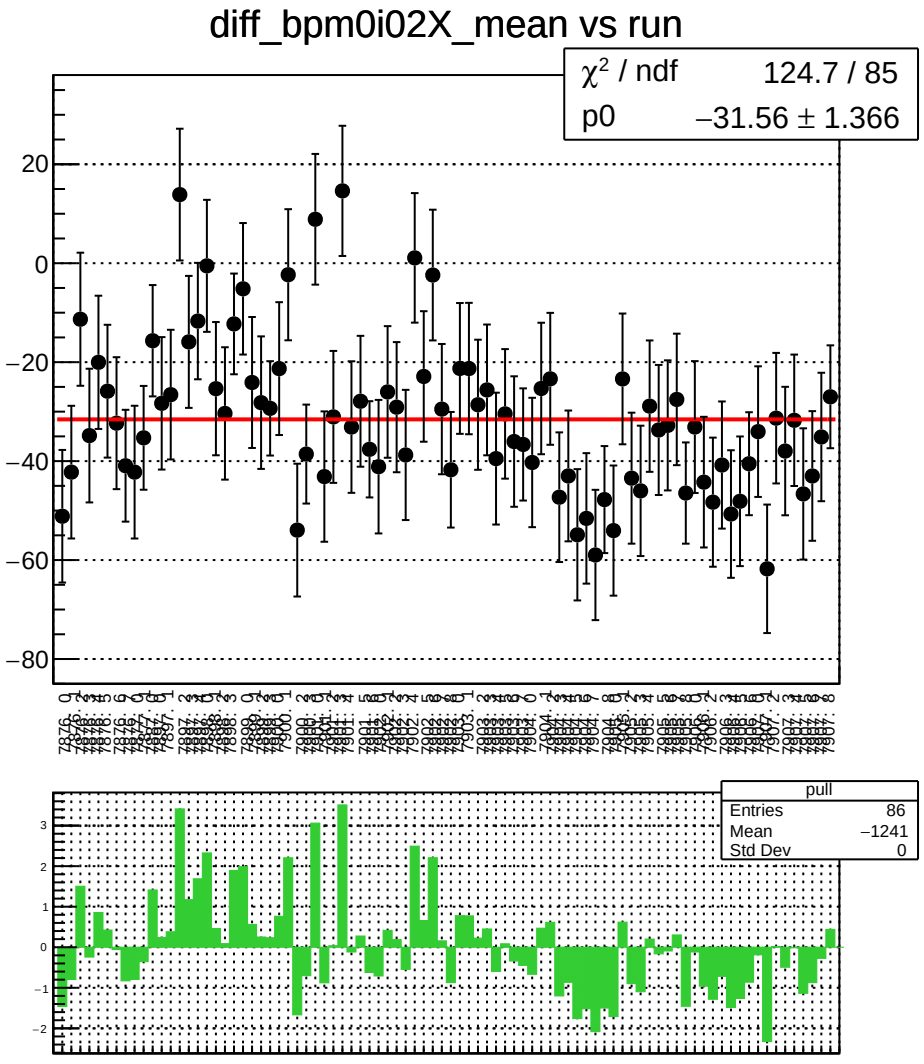

pull1D
Entries 86
Mean 0.01524
Std Dev 1.069

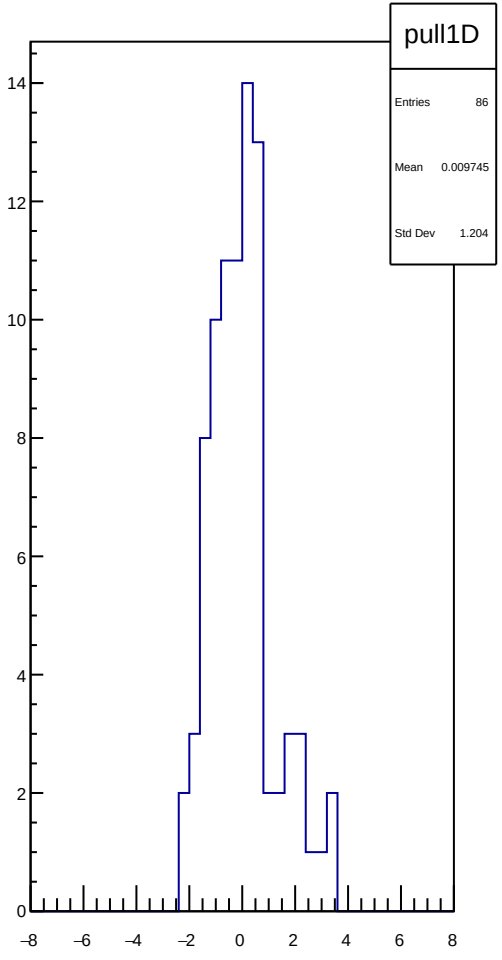

diff_bpm2i02X_rms vs run
χ² / ndf 220.6 / 85
p0 653.7 ± 0.5032
680
670
660
650
640
630

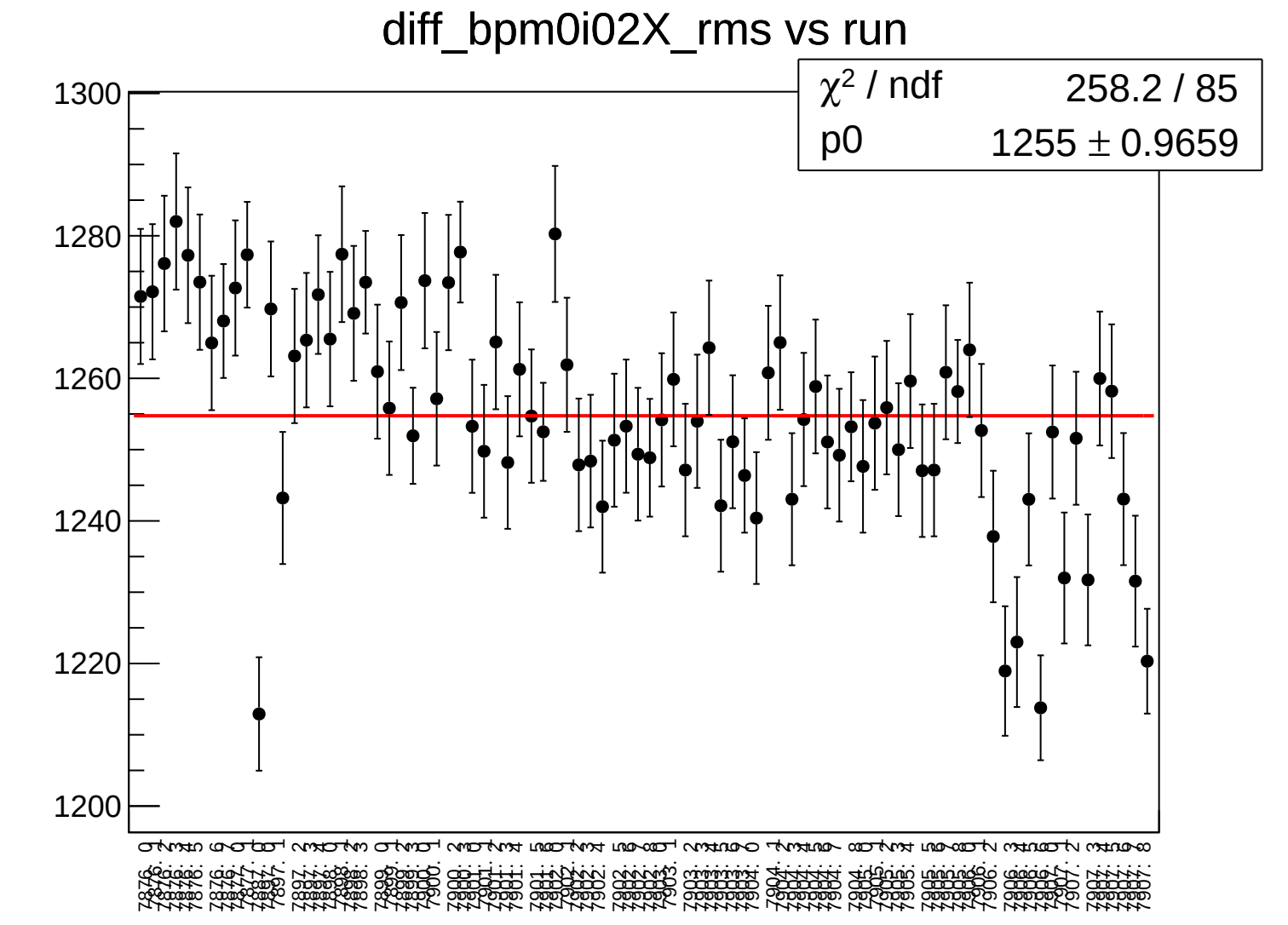

diff_bpm2i02Y_mean vs run
χ² / ndf 130.8 / 85
p0 9.256 ± 0.6956
pull
Entries 86
Mean −1839
Std Dev 0

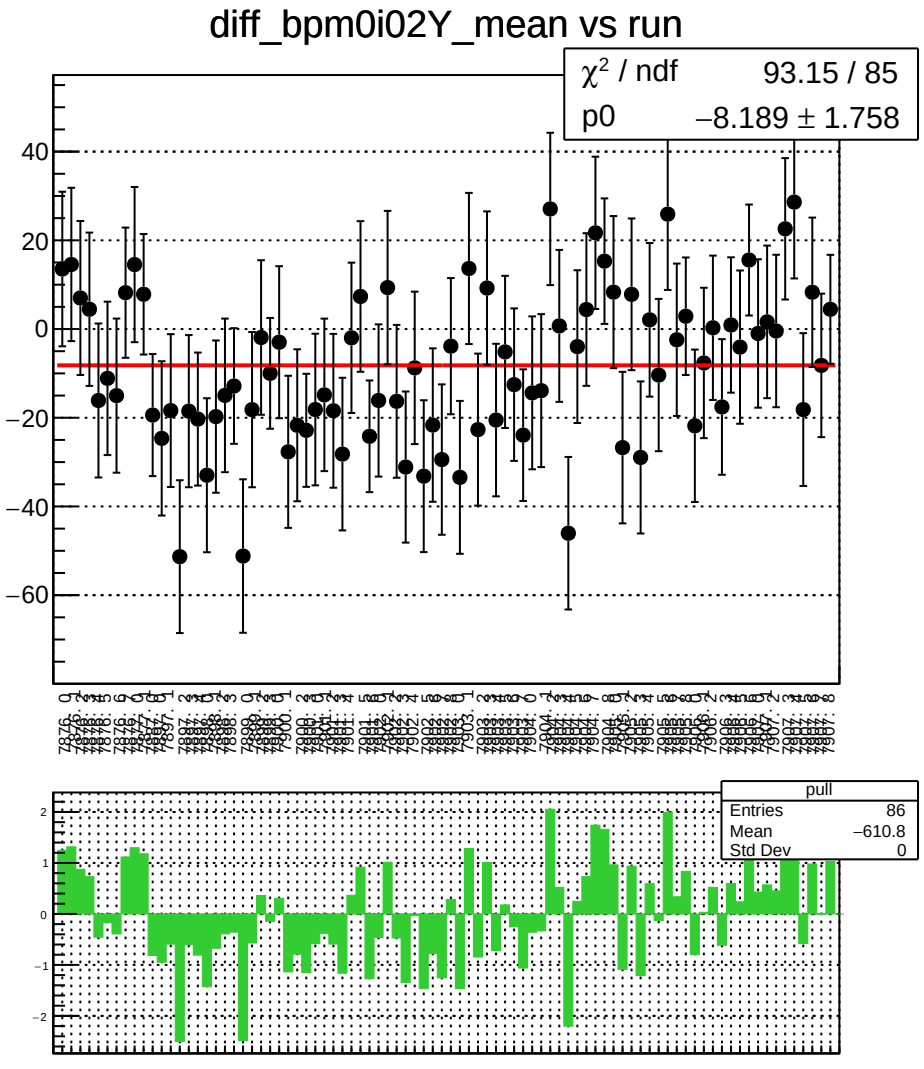

pull1D
Entries 86
Mean 0.007415
Std Dev 1.233

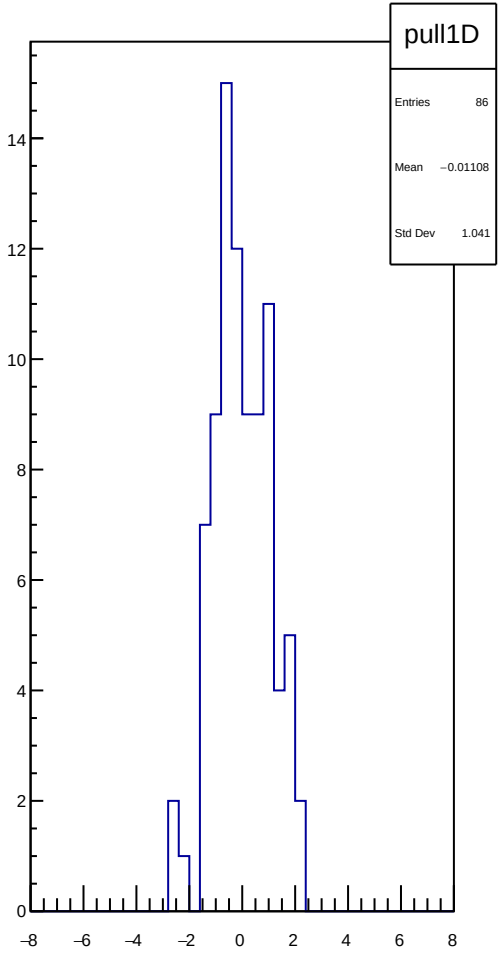

diff_bpm2i02Y_rms vs run
χ² / ndf 147.4 / 85
p0 639 ± 0.4919
660
655
650
645
640
635
630
625
620
615

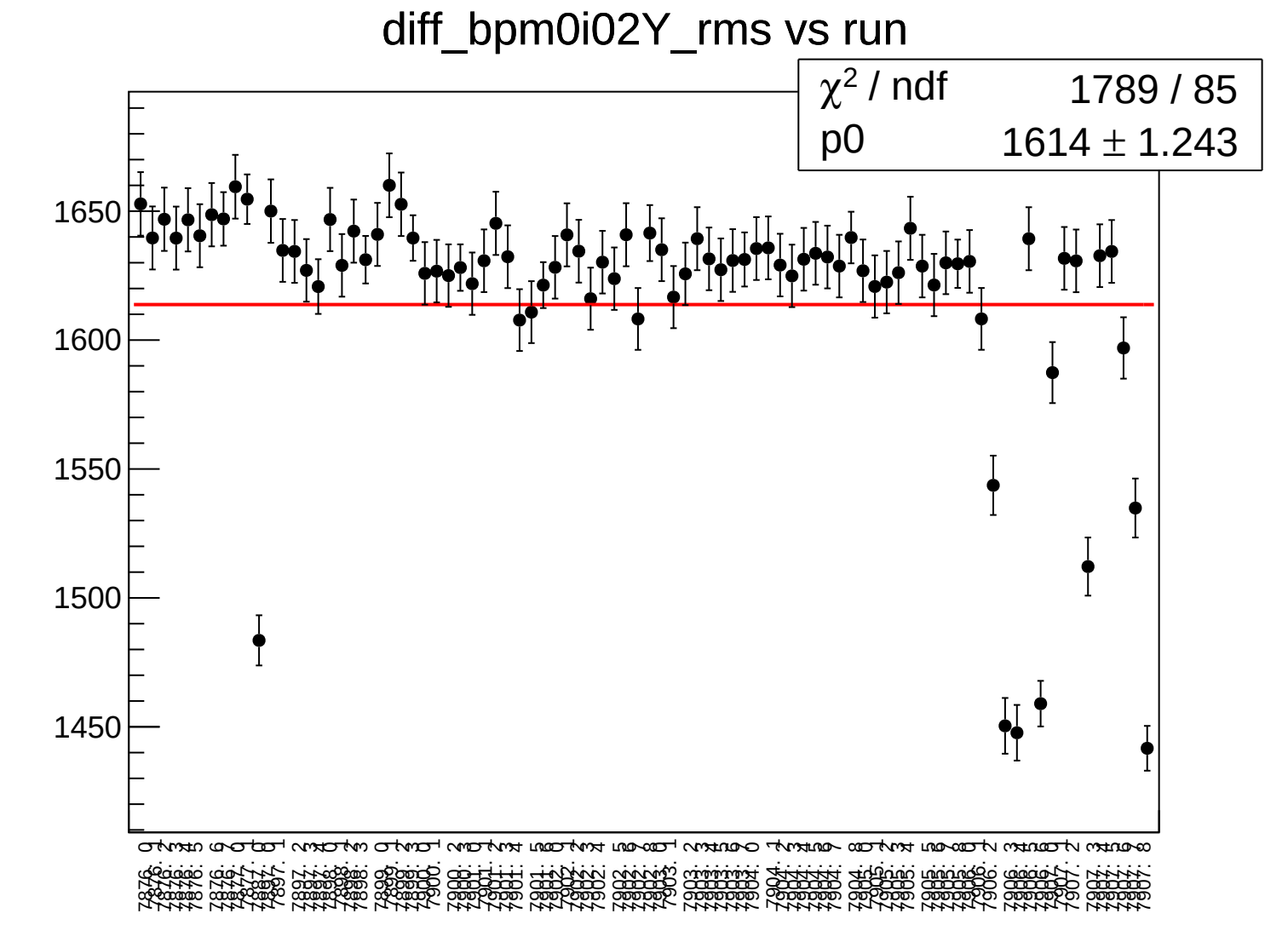

diff_bpm0i02X_mean vs run
χ^2 / ndf 124.7 / 85
p0 −31.56 ± 1.366
pull
Entries 86
Mean −1241
Std Dev 0

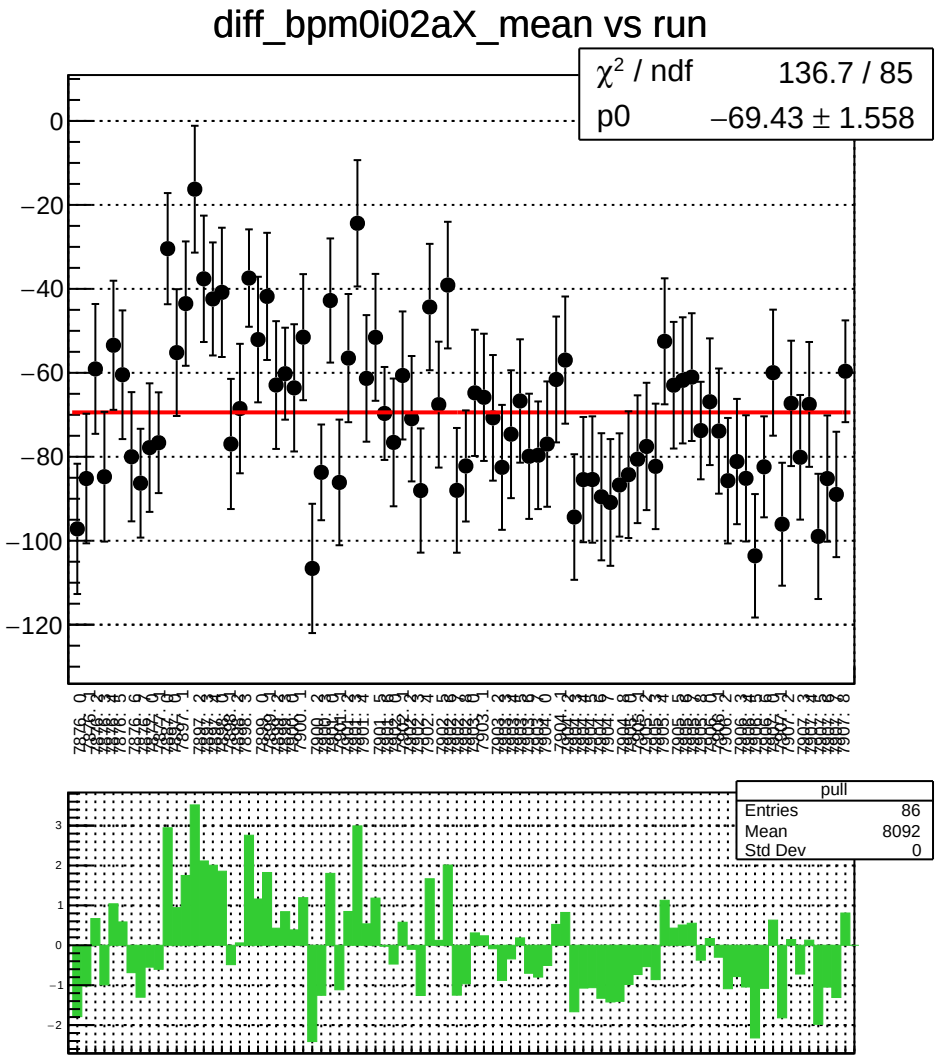

pull1D
Entries 86
Mean 0.009745
Std Dev 1.204

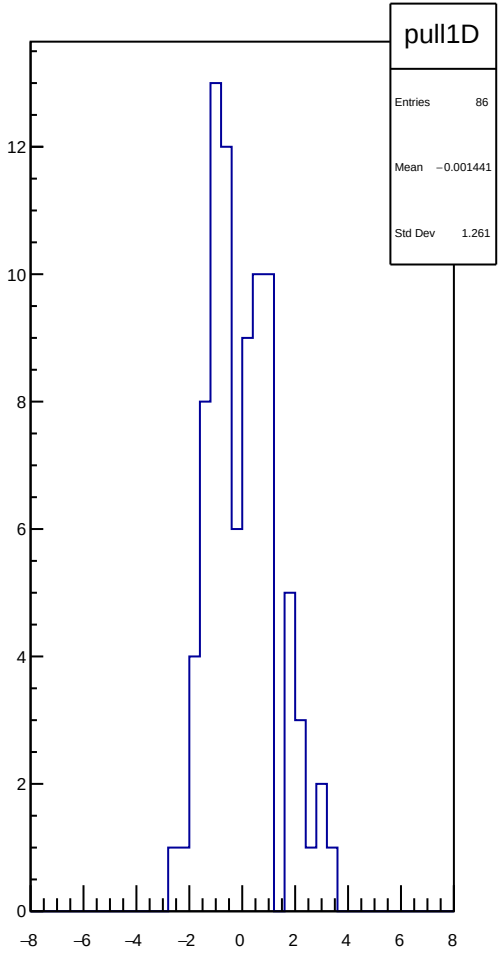

diff_bpm0i02X_rms vs run
χ² / ndf 258.2 / 85
p0 1255 ± 0.9659
1300
1280
1260
1240
1220
1200

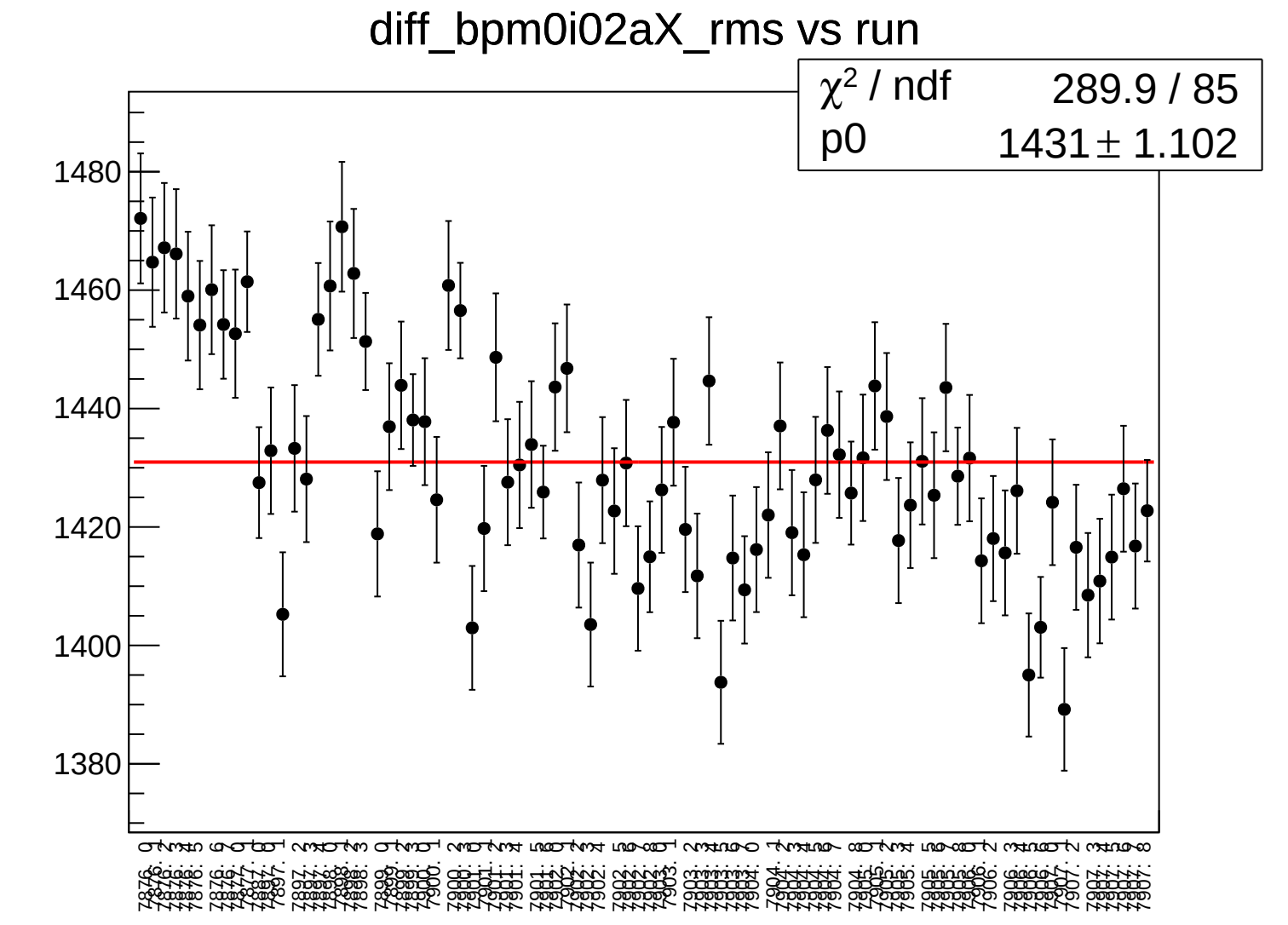

diff_bpm0i02Y_mean vs run
χ² / ndf 93.15 / 85
p0 −8.189 ± 1.758
pull
Entries 86
Mean −610.8
Std Dev 0

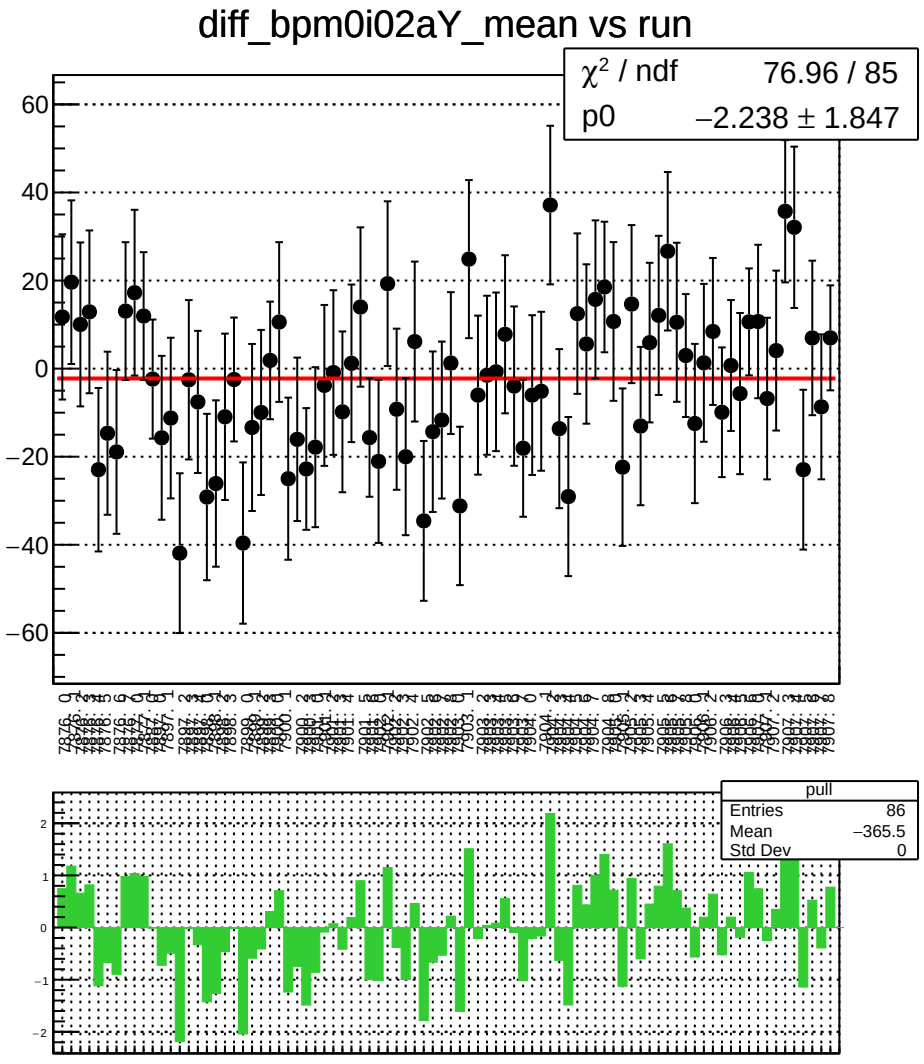

pull1D
Entries 86
Mean −0.01108
Std Dev 1.041

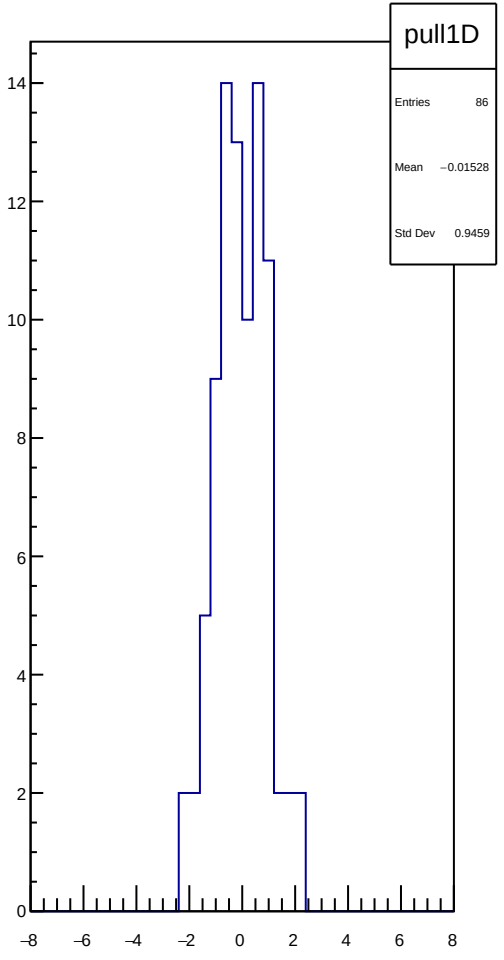

diff_bpm0i02Y_rms vs run
χ^2 / ndf 1789 / 85
p0 1614 ± 1.243
1650
1600
1550
1500
1450

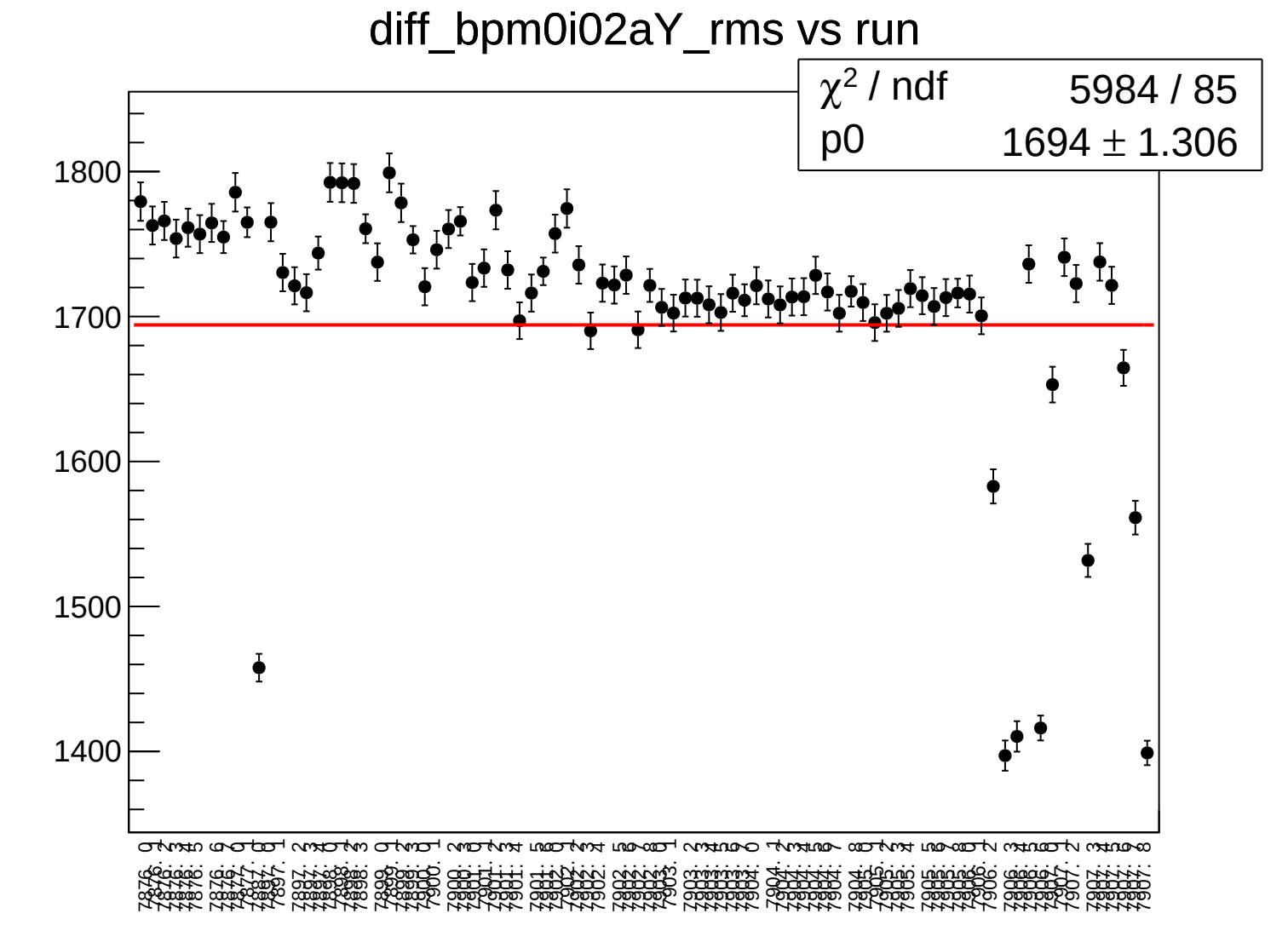

diff_bpm0i02aX_mean vs run
χ² / ndf 136.7 / 85
p0 −69.43 ± 1.558
pull
Entries 86
Mean 8092
Std Dev 0

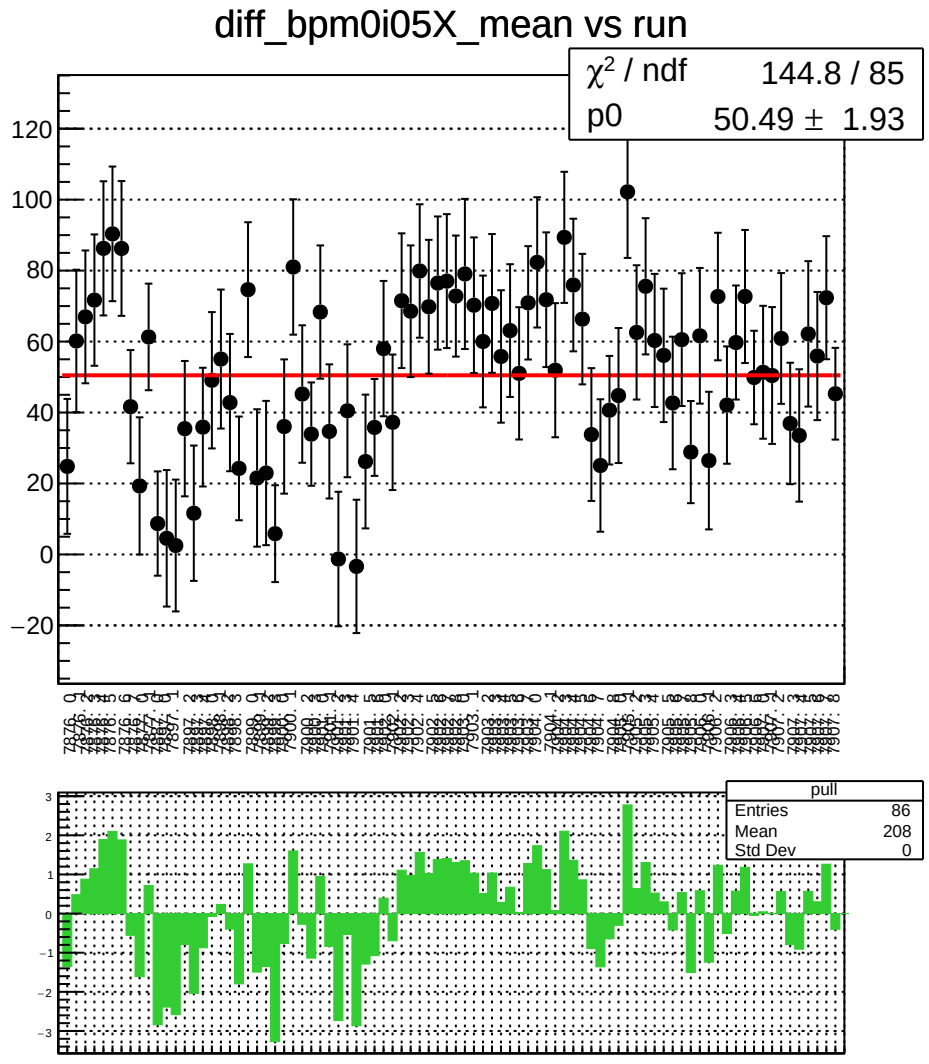

pull1D
Entries 86
Mean −0.001441
Std Dev 1.261

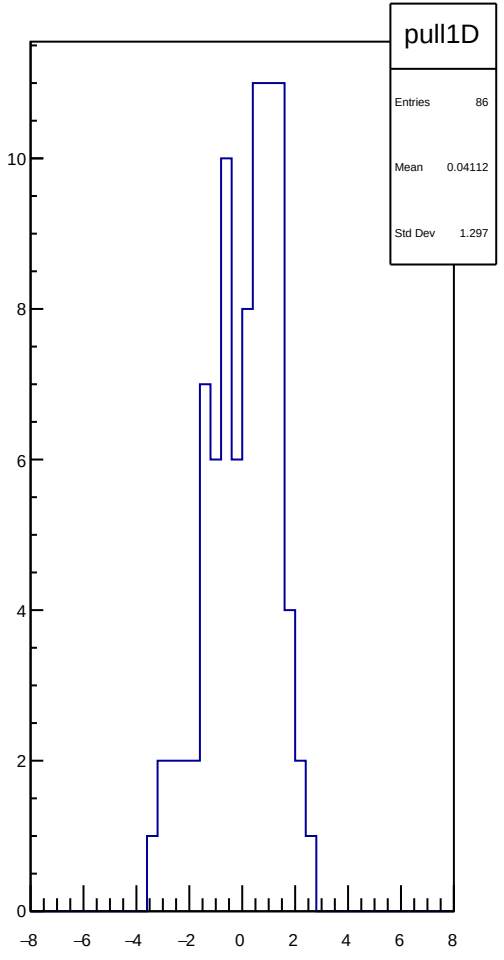

diff_bpm0i02aX_rms vs run
χ² / ndf 289.9 / 85
p0 1431 ± 1.102
1480
1460
1440
1420
1400
1380

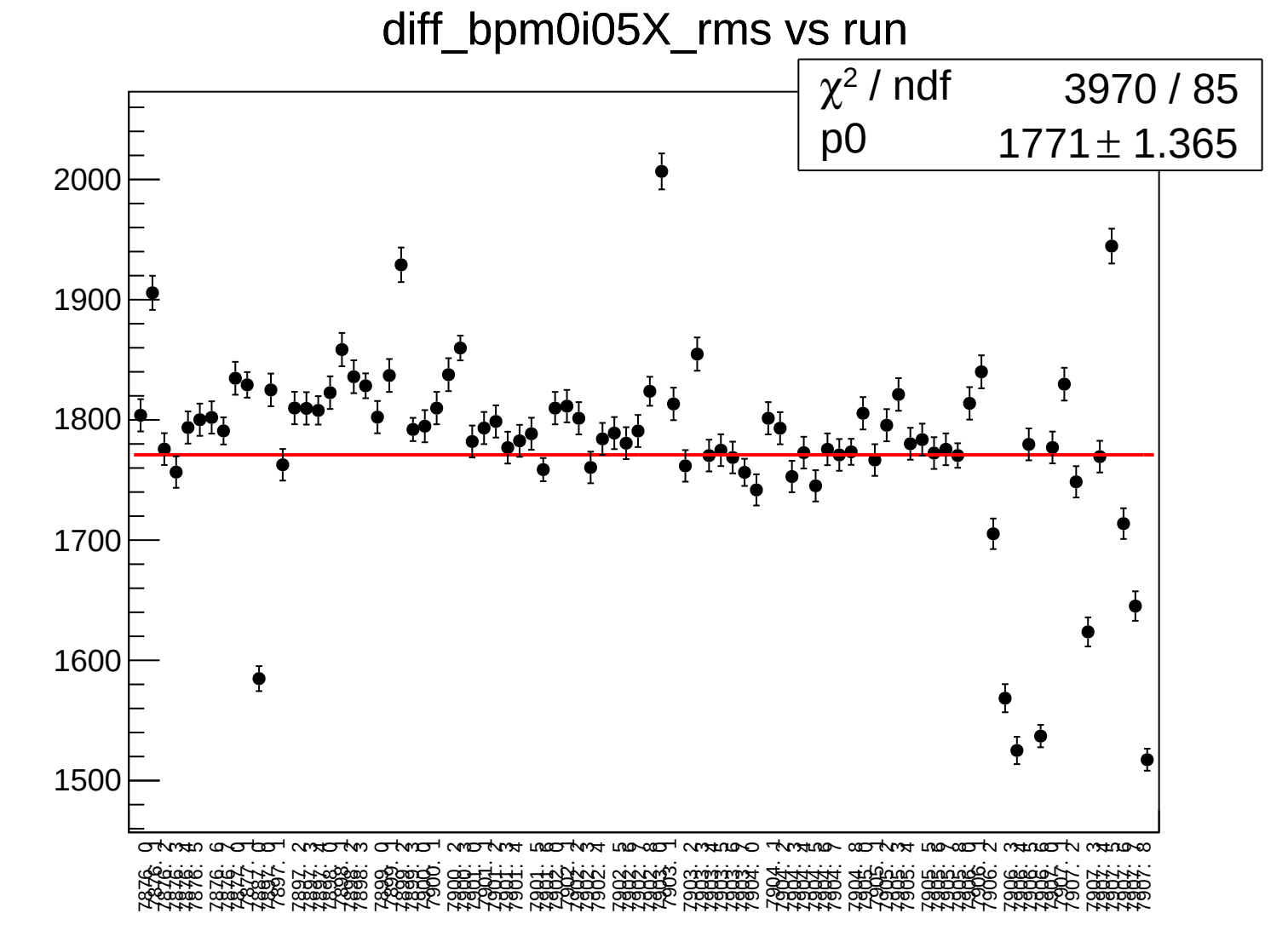

diff_bpm0i02aY_mean vs run
χ^2 / ndf 76.96 / 85
p0 −2.238 ± 1.847
pull
Entries 86
Mean −365.5
Std Dev 0

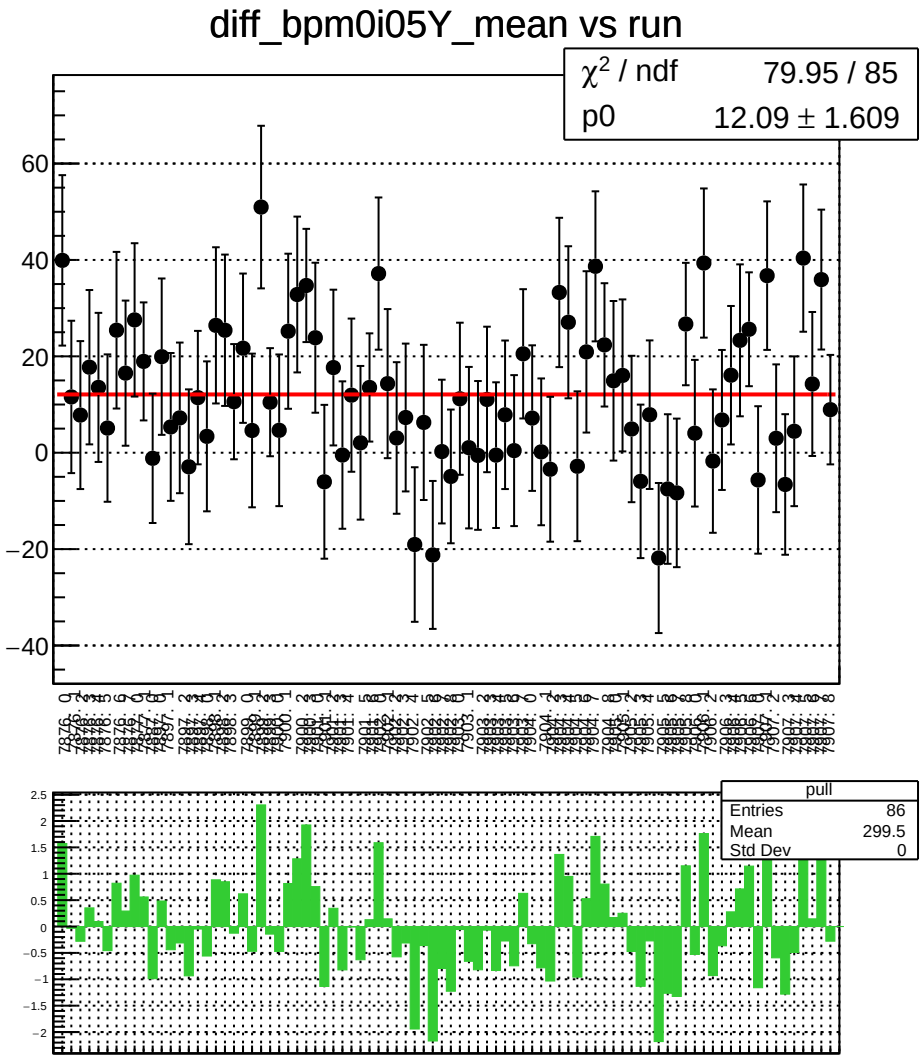

pull1D
Entries 86
Mean −0.01528
Std Dev 0.9459

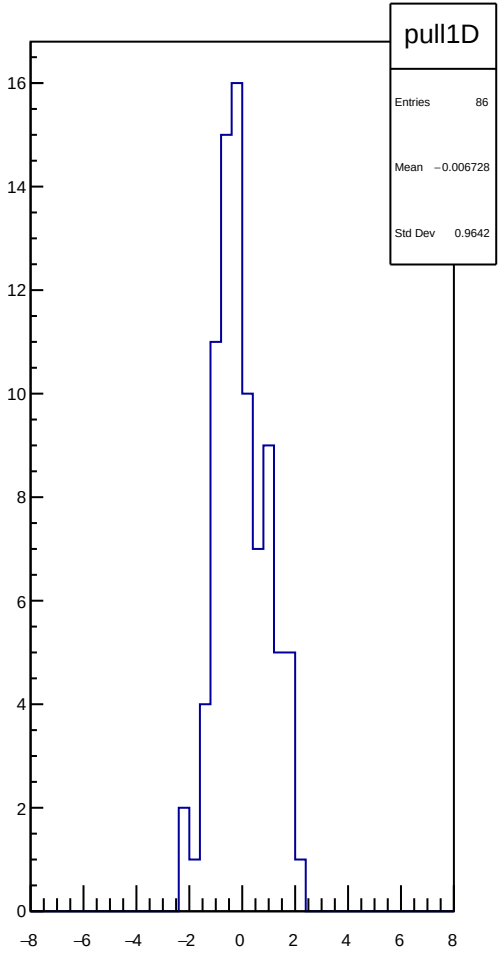

diff_bpm0i02aY_rms vs run
χ² / ndf 5984 / 85
p0 1694 ± 1.306
1800
1700
1600
1500
1400

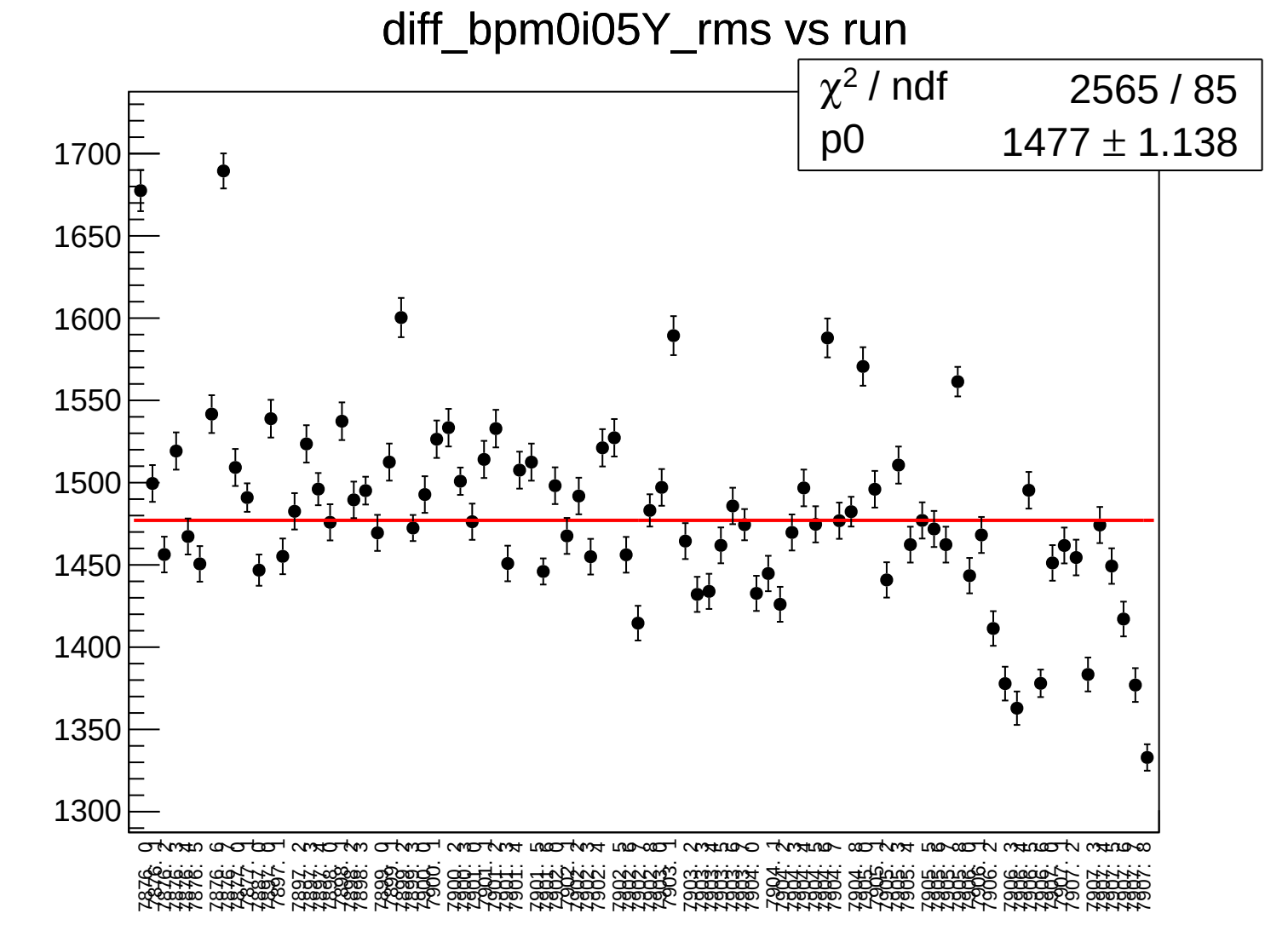

diff_bpm0i05X_mean vs run
χ² / ndf 144.8 / 85
p0 50.49 ± 1.93
pull
Entries 86
Mean 208
Std Dev 0

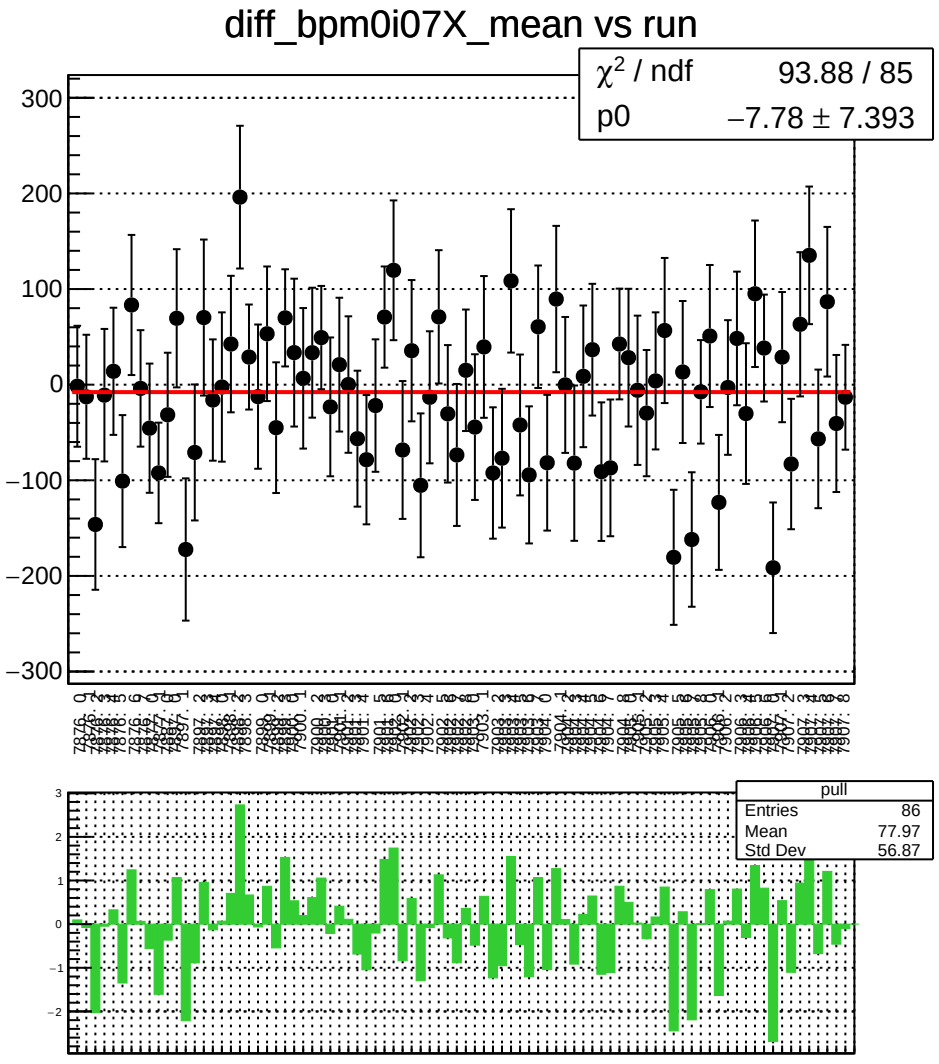

pull1D
Entries 86
Mean 0.04112
Std Dev 1.297

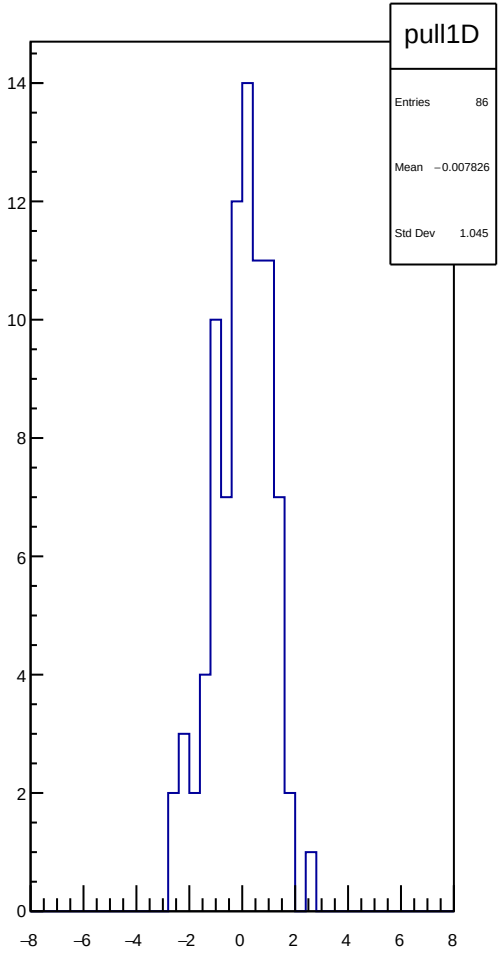

diff_bpm0i05X_rms vs run
χ² / ndf 3970 / 85
p0 1771 ± 1.365
2000
1900
1800
1700
1600
1500

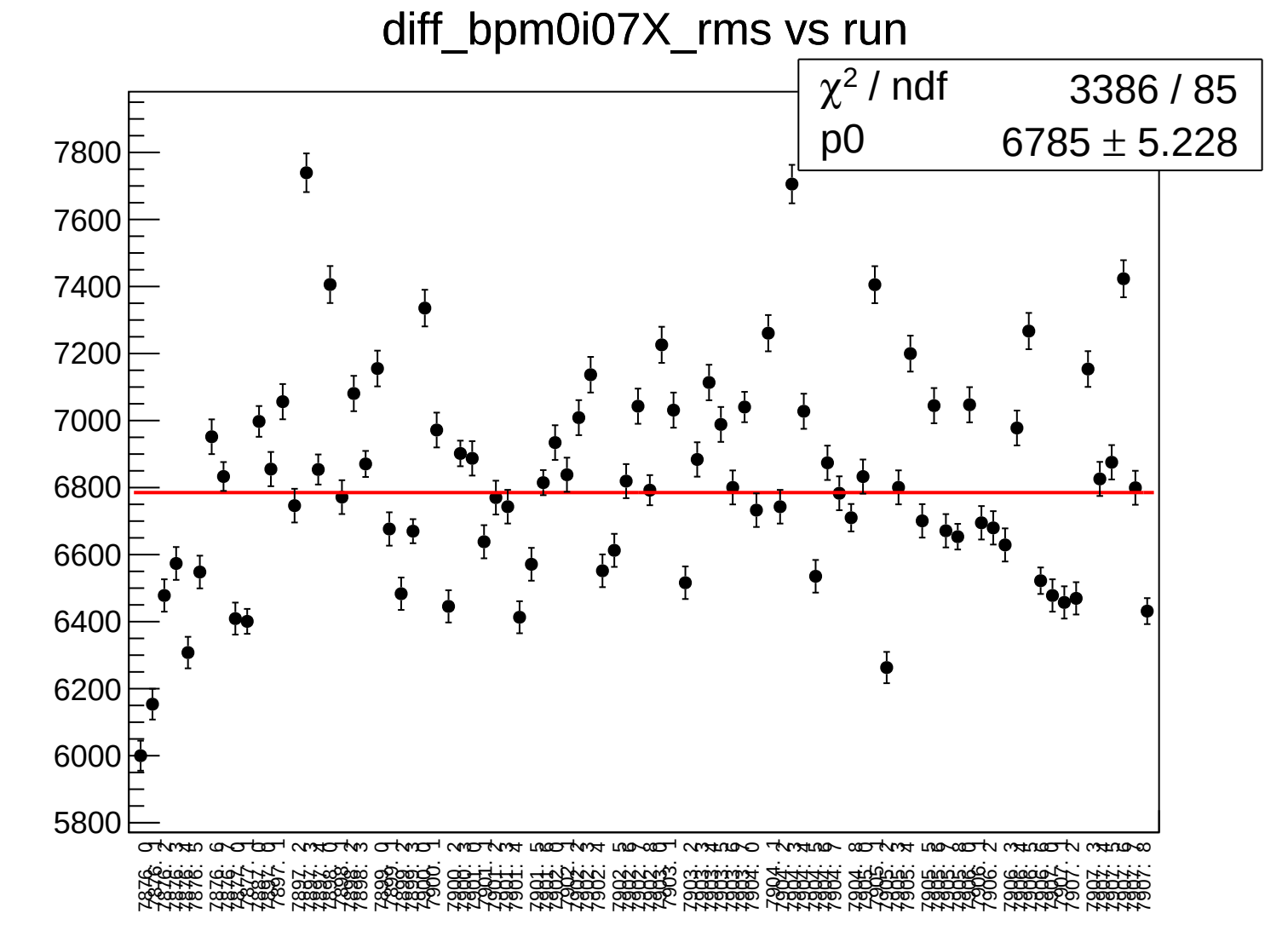

diff_bpm0i05Y_mean vs run
χ^2 / ndf 79.95 / 85
p0 12.09 ± 1.609
pull
Entries 86
Mean 299.5
Std Dev 0

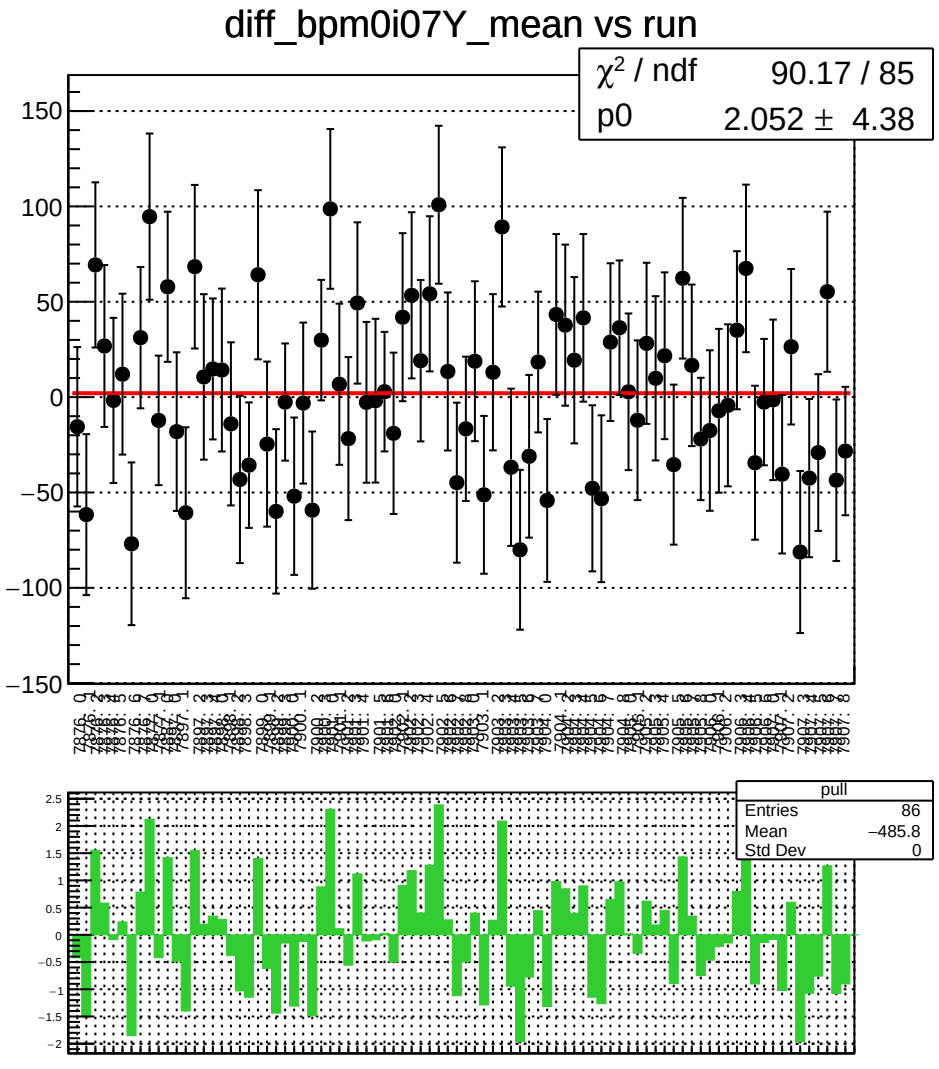

pull1D
Entries 86
Mean −0.006728
Std Dev 0.9642

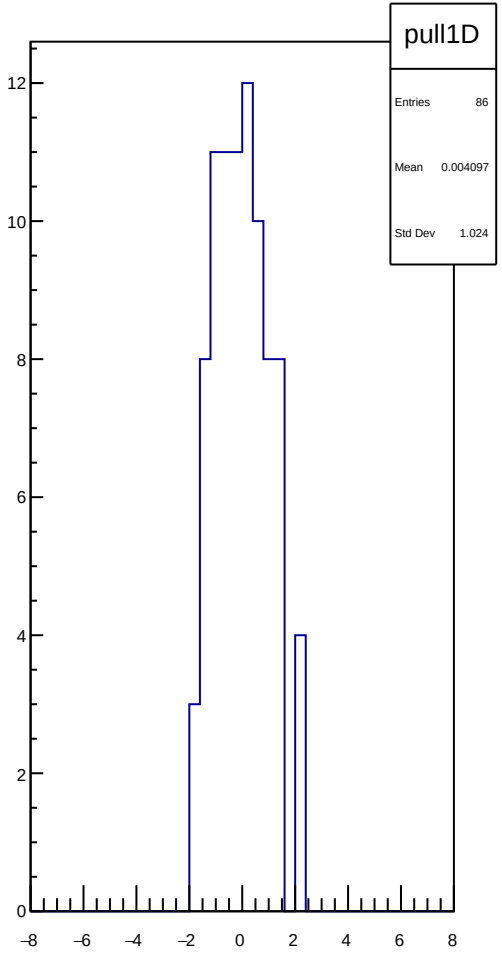

diff_bpm0i05Y_rms vs run
χ² / ndf 2565 / 85
p0 1477 ± 1.138
1700
1650
1600
1550
1500
1450
1400
1350
1300

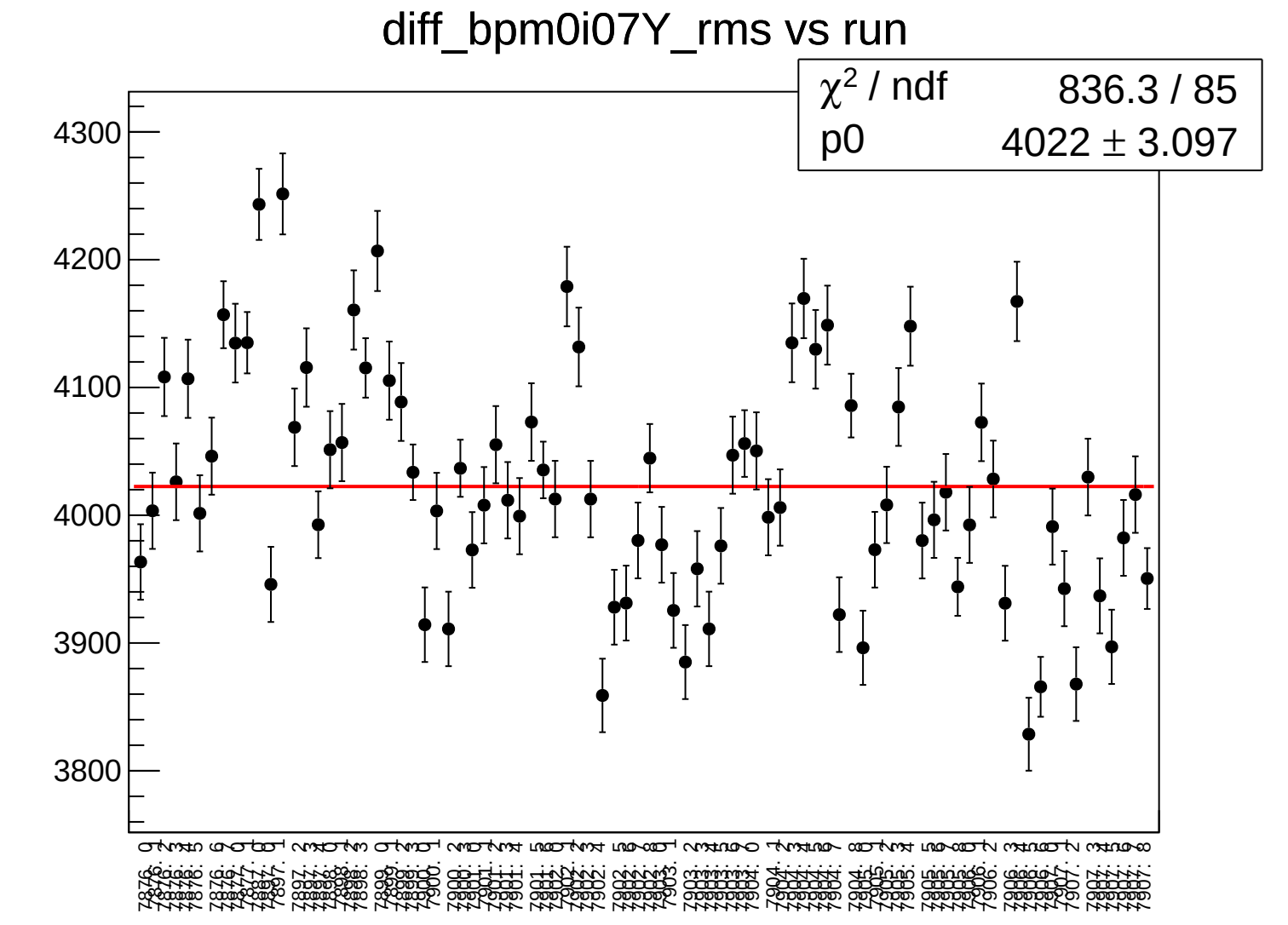

diff_bpm0i07X_mean vs run
χ² / ndf 93.88 / 85
p0 −7.78 ± 7.393
pull
Entries 86
Mean 77.97
Std Dev 56.87

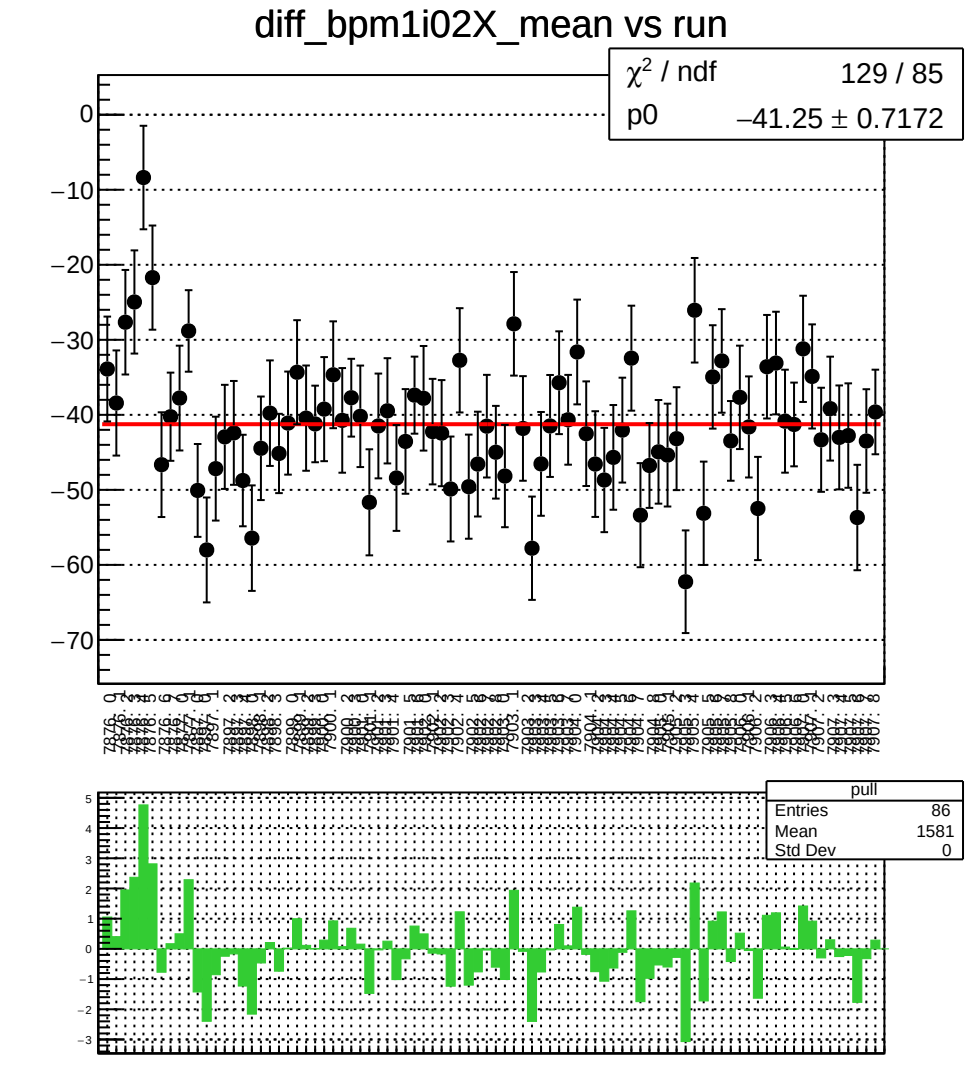

pull1D
Entries 86
Mean −0.007826
Std Dev 1.045

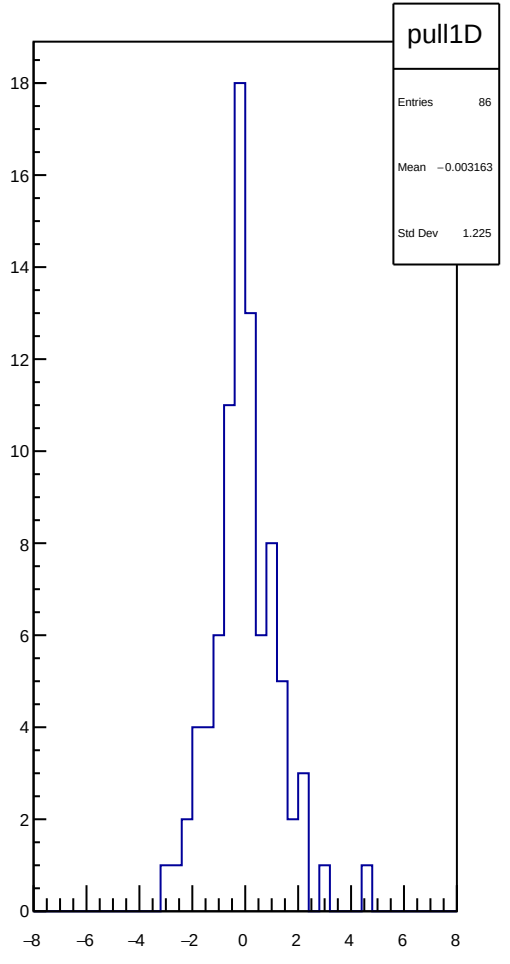

diff_bpm0i07X_rms vs run
χ² / ndf 3386 / 85
p0 6785 ± 5.228
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

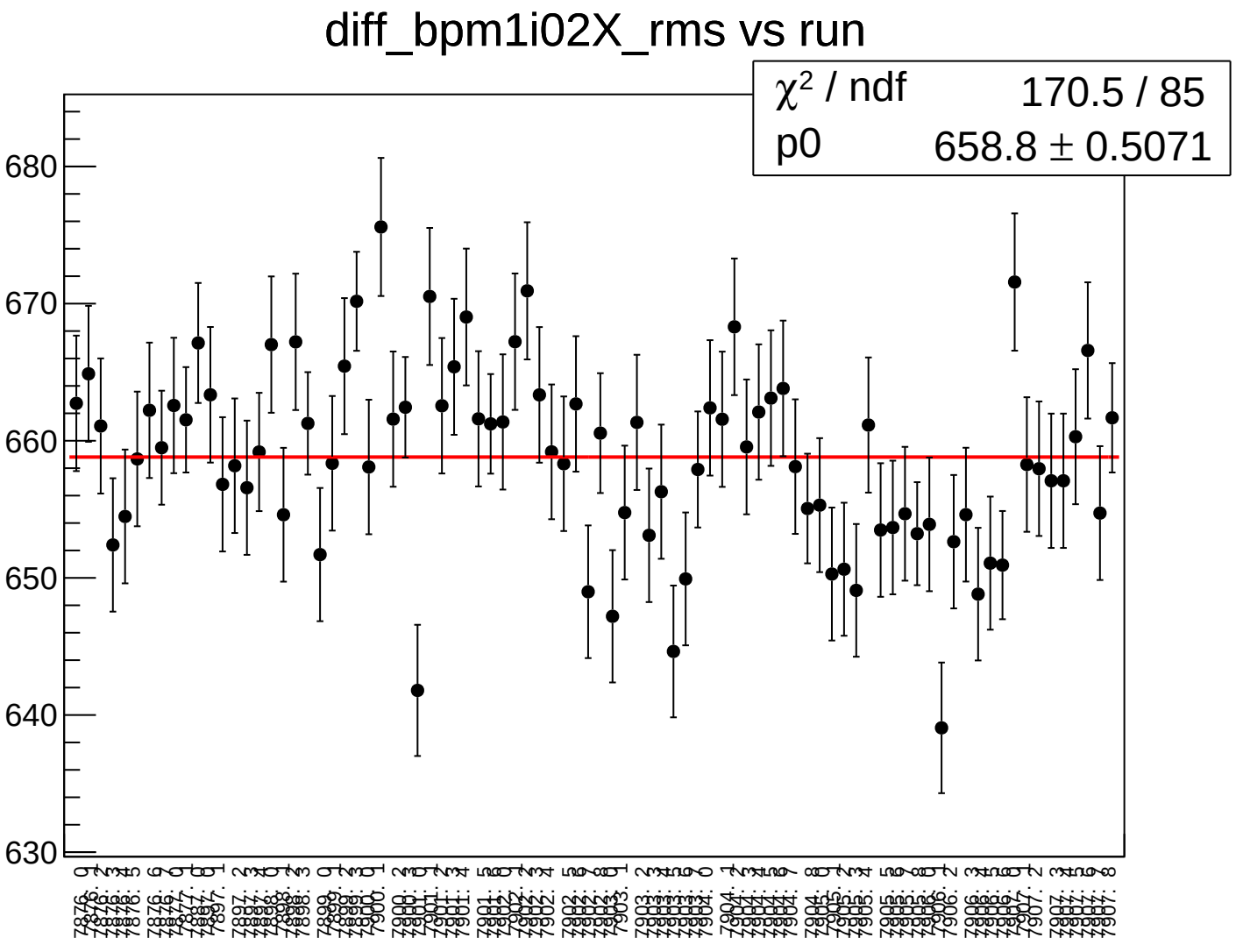

diff_bpm0i07Y_mean vs run
χ² / ndf 90.17 / 85
p0 2.052 ± 4.38
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −485.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

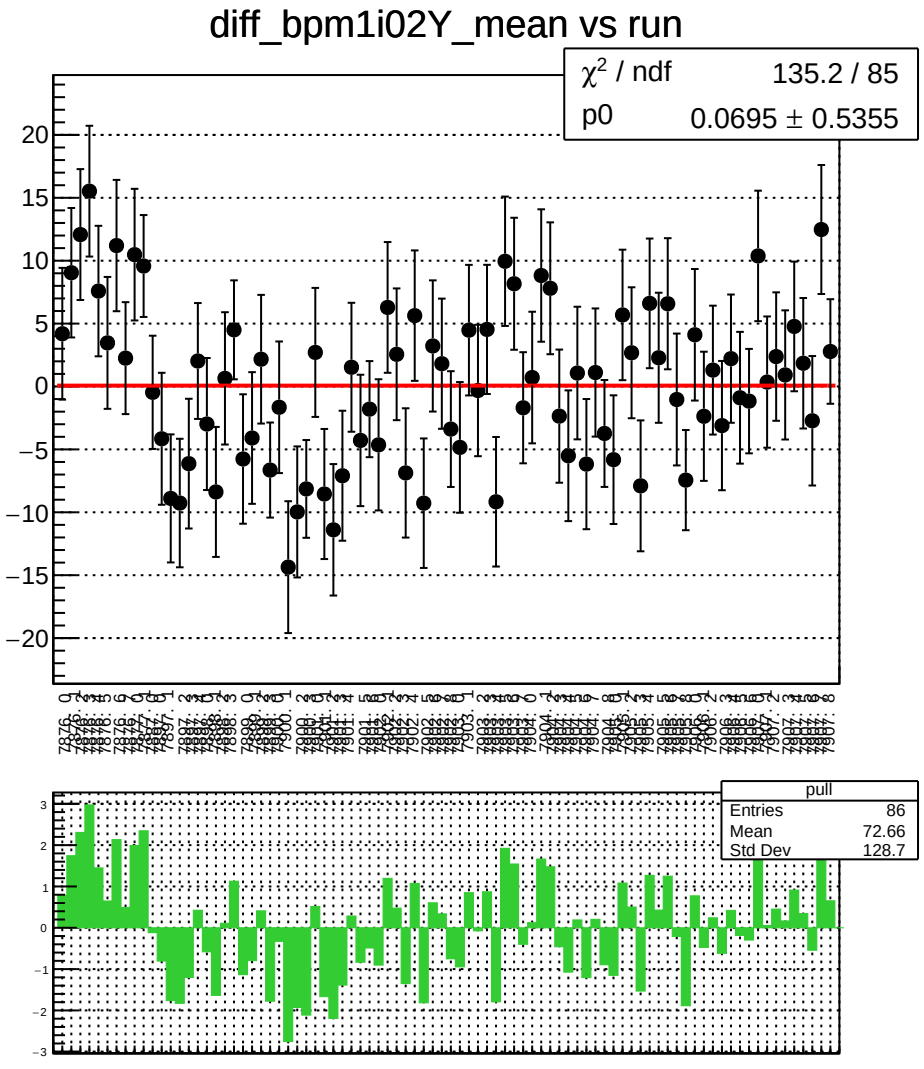

pull1D
Entries 86
Mean 0.004097
Std Dev 1.024
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

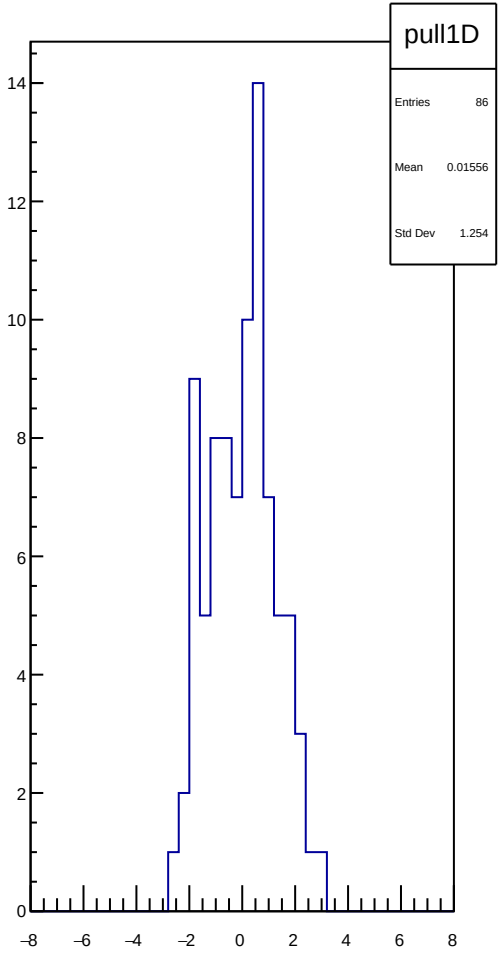

diff_bpm0i07Y_rms vs run
χ² / ndf 836.3 / 85
p0 4022 ± 3.097
4300
4200
4100
4000
3900
3800

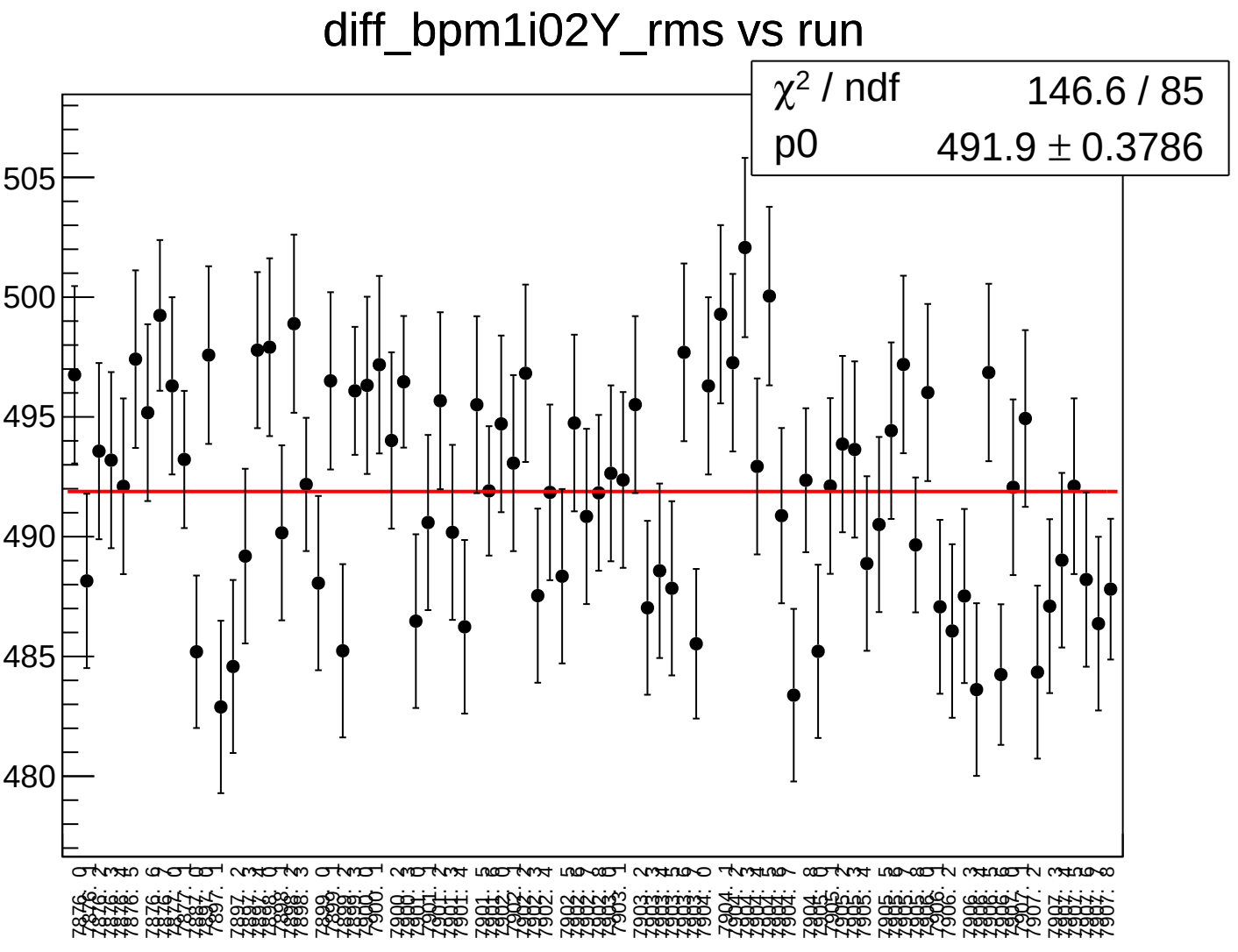

diff_bpm1i02X_mean vs run
χ² / ndf 129 / 85
p0 −41.25 ± 0.7172
pull
Entries 86
Mean 1581
Std Dev 0

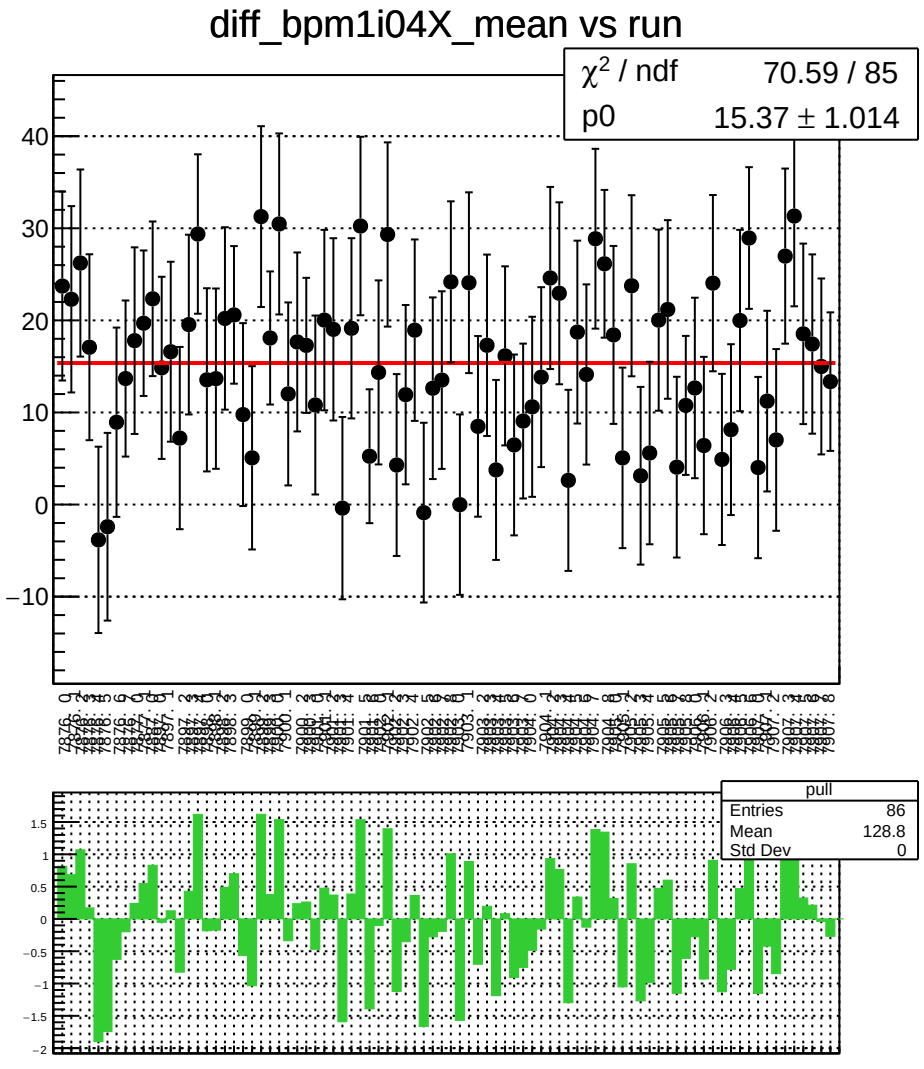

pull1D
Entries 86
Mean −0.003163
Std Dev 1.225

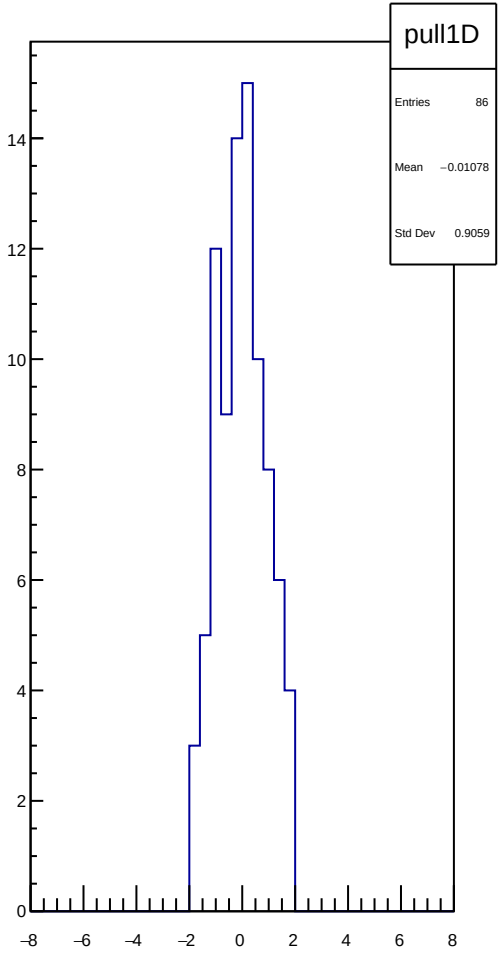

diff_bpm1i02X_rms vs run
χ² / ndf 170.5 / 85
p0 658.8 ± 0.5071
680
670
660
650
640
630

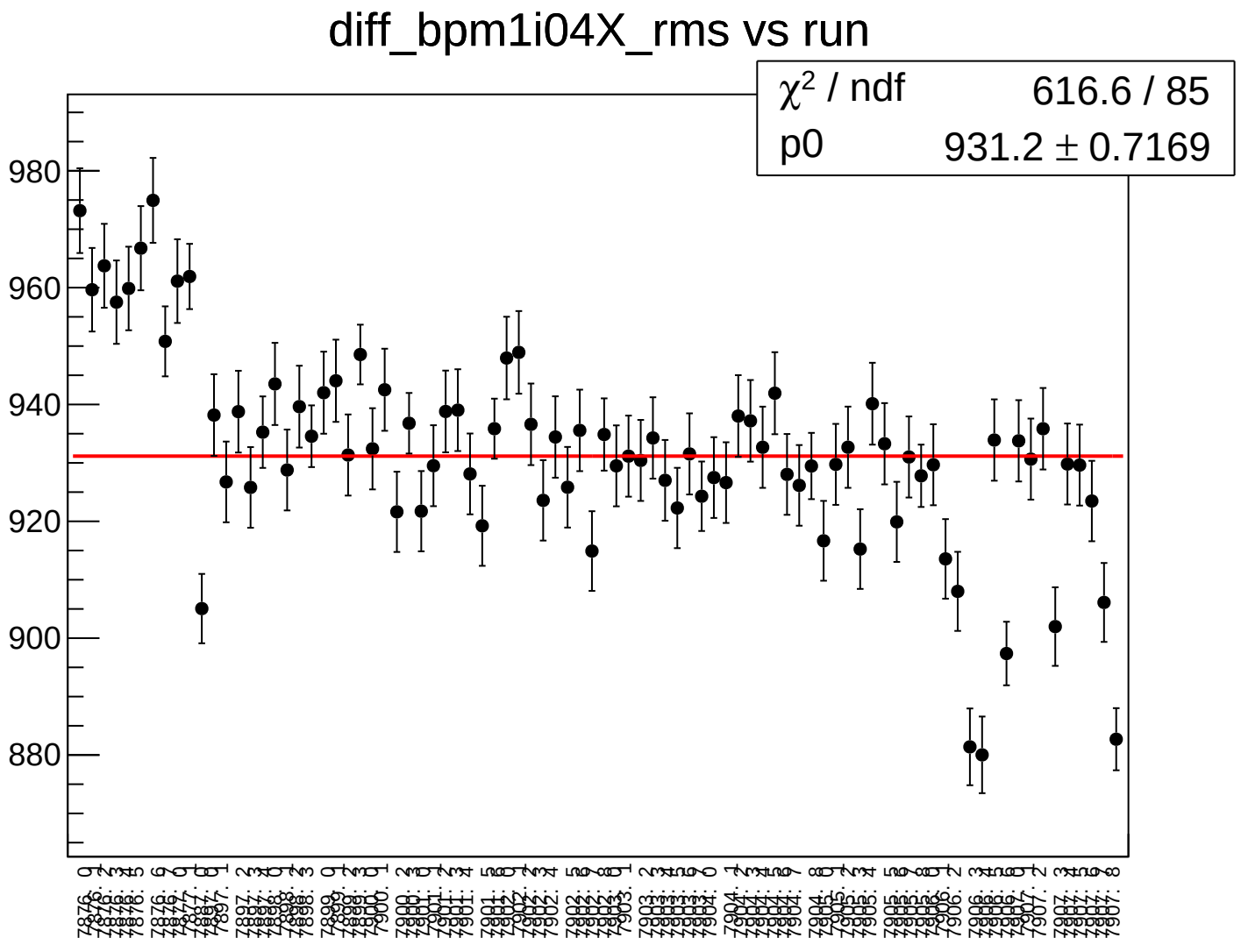

diff_bpm1i02Y_mean vs run
χ² / ndf 135.2 / 85
p0 0.0695 ± 0.5355
pull
Entries 86
Mean 72.66
Std Dev 128.7

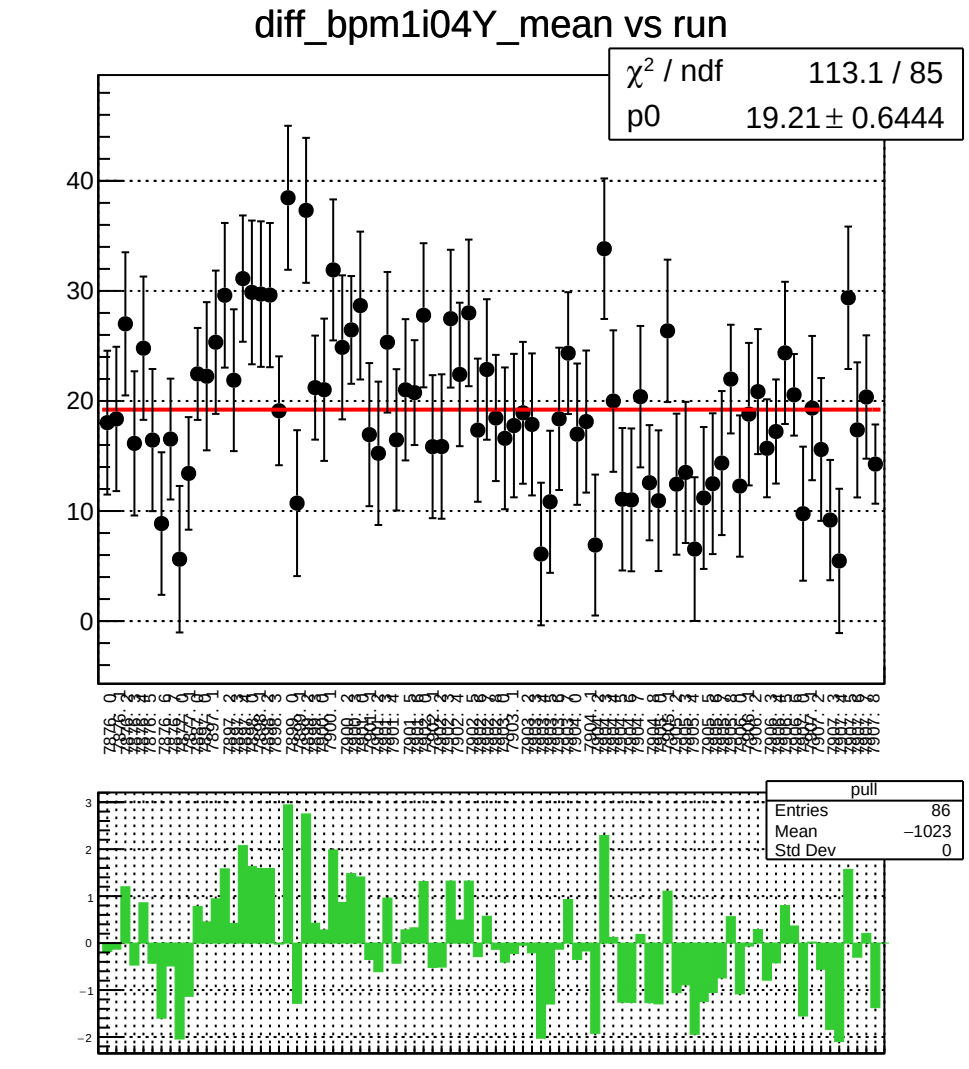

pull1D
Entries 86
Mean 0.01556
Std Dev 1.254

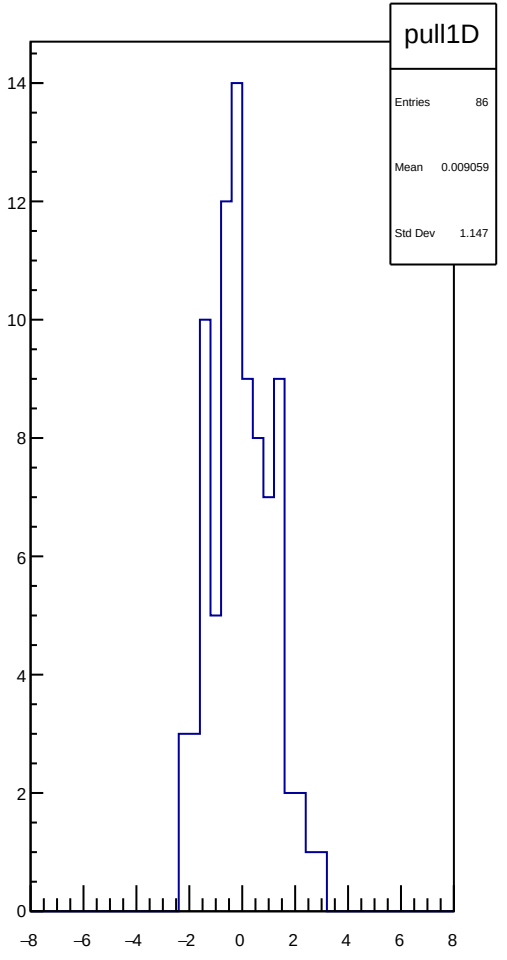

diff_bpm1i02Y_rms vs run
χ² / ndf 146.6 / 85
p0 491.9 ± 0.3786
505
500
495
490
485
480

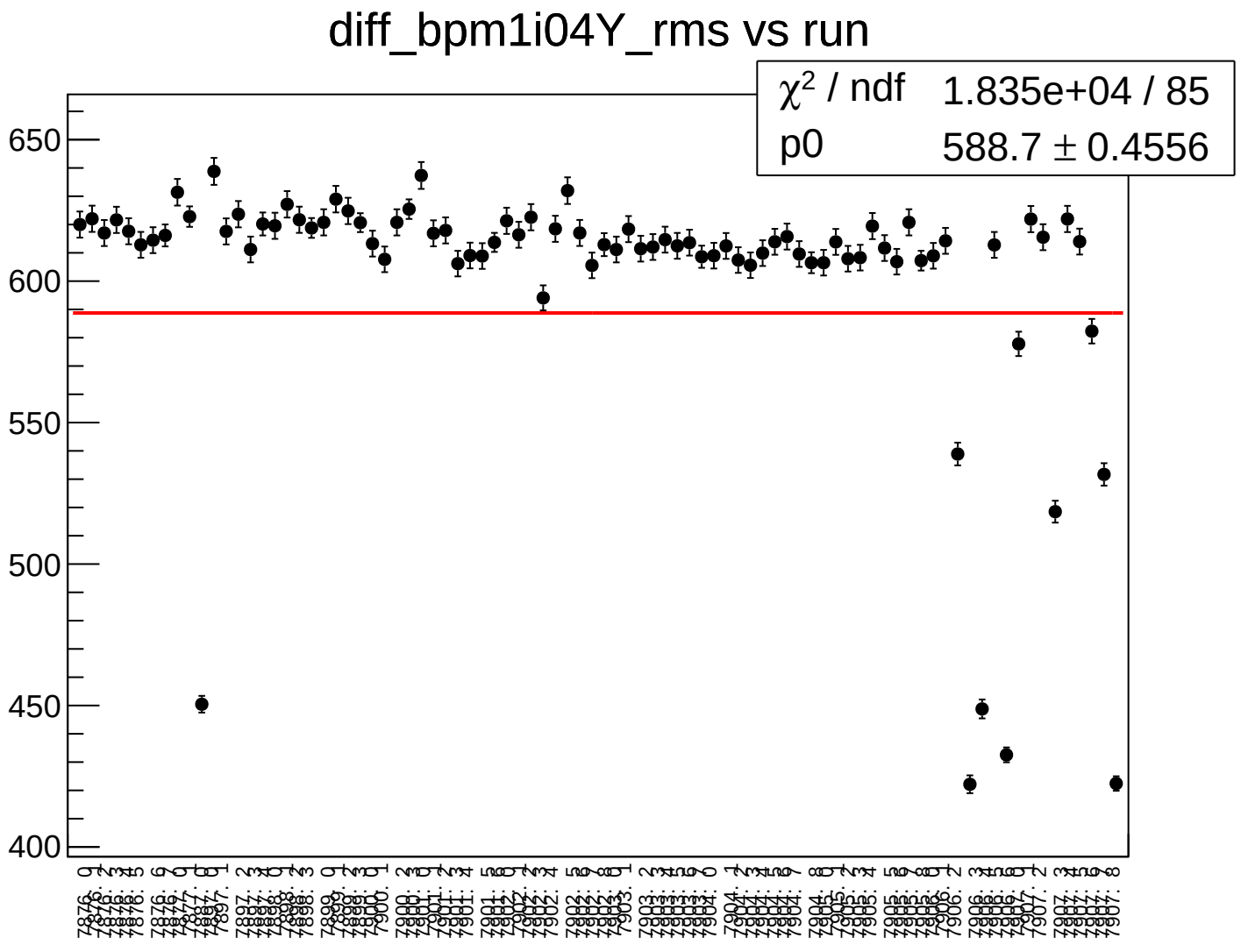

diff_bpm1i04X_mean vs run
χ² / ndf 70.59 / 85
p0 15.37 ± 1.014
pull
Entries 86
Mean 128.8
Std Dev 0

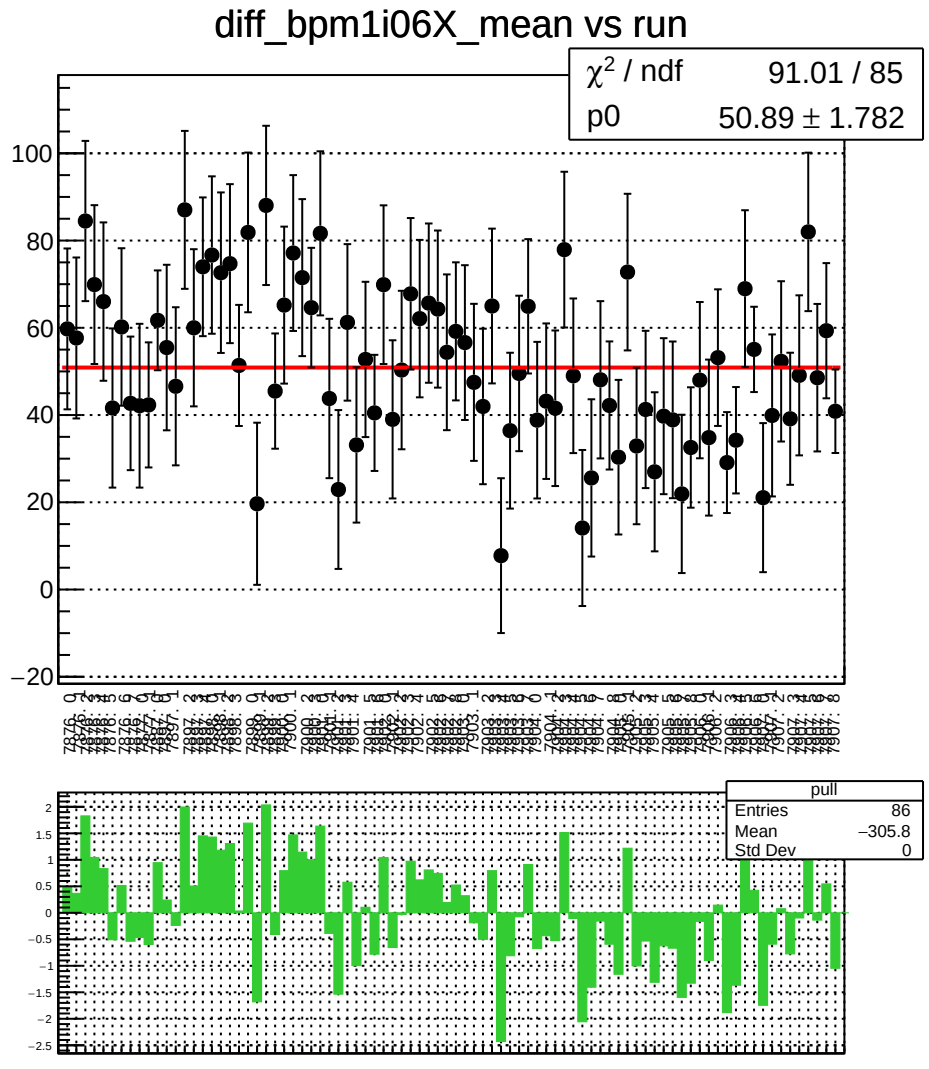

pull1D
Entries 86
Mean −0.01078
Std Dev 0.9059

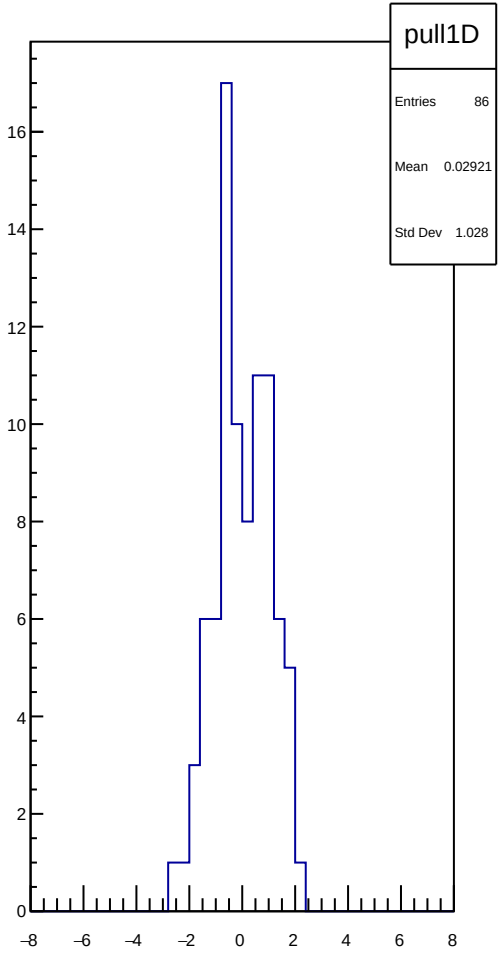

diff_bpm1i04X_rms vs run
χ² / ndf 616.6 / 85
p0 931.2 ± 0.7169
980
960
940
920
900
880

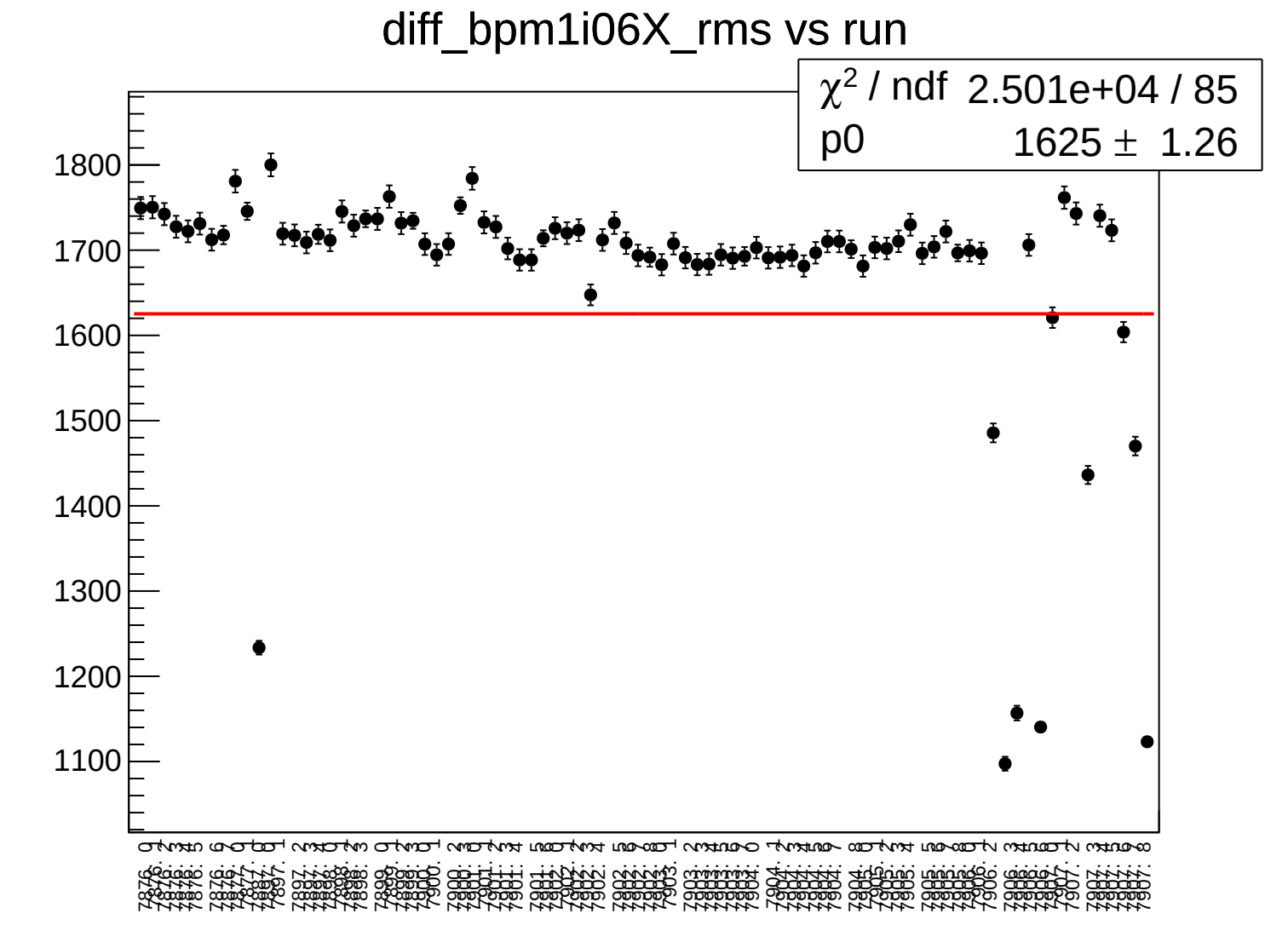

diff_bpm1i04Y_mean vs run
χ² / ndf 113.1 / 85
p0 19.21 ± 0.6444
pull
Entries 86
Mean −1023
Std Dev 0

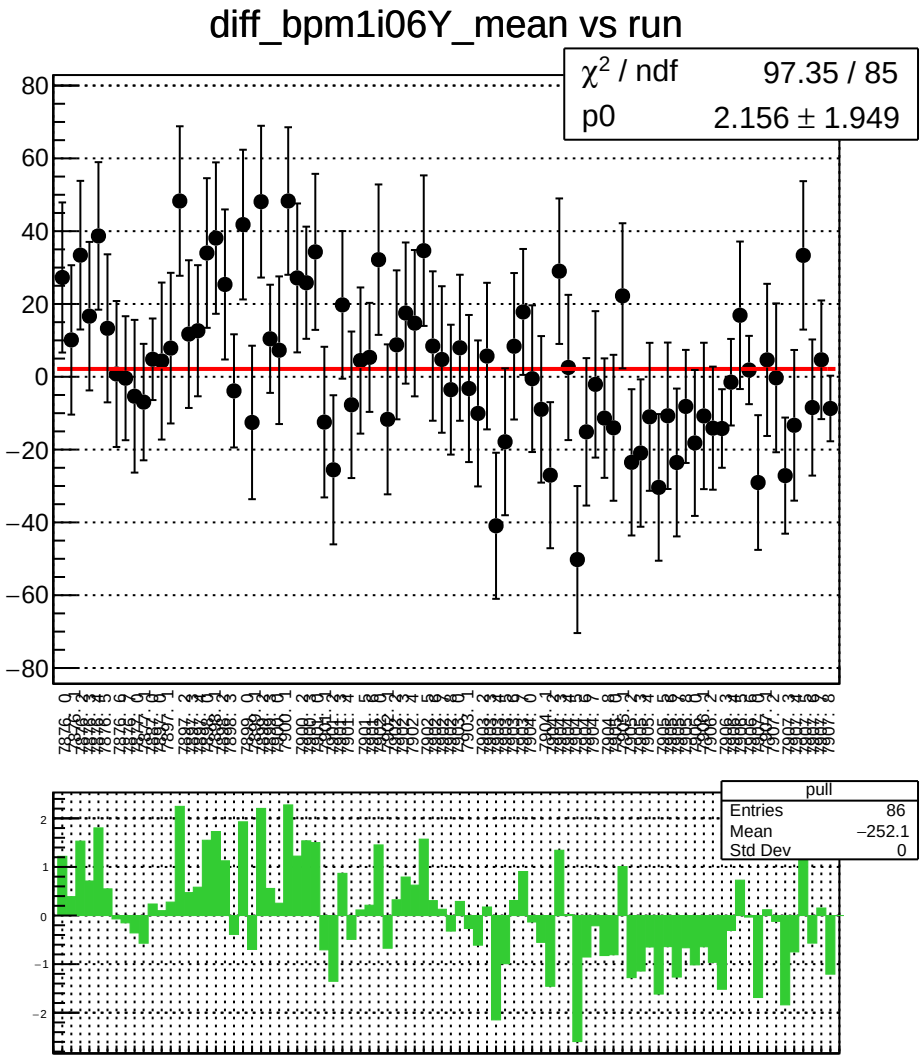

pull1D
Entries 86
Mean 0.009059
Std Dev 1.147

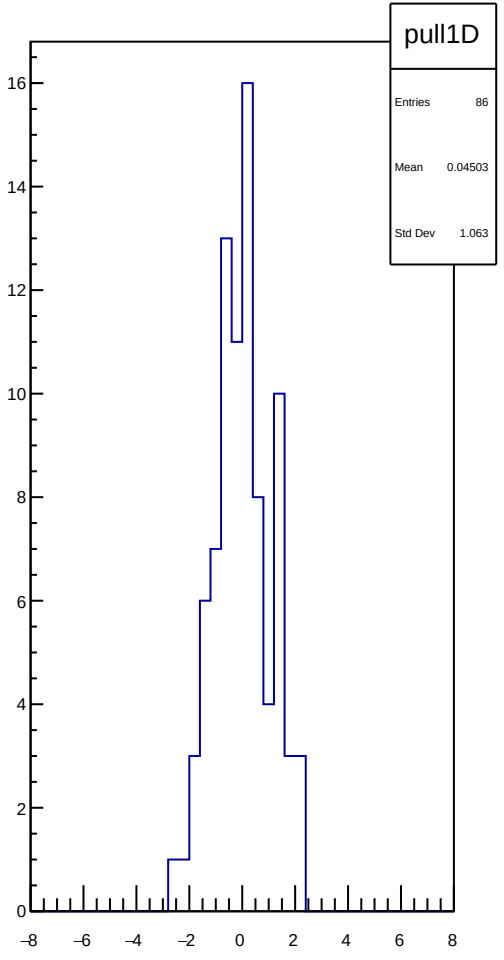

diff_bpm1i04Y_rms vs run
χ² / ndf 1.835e+04 / 85
p0 588.7 ± 0.4556
650
600
550
500
450
400

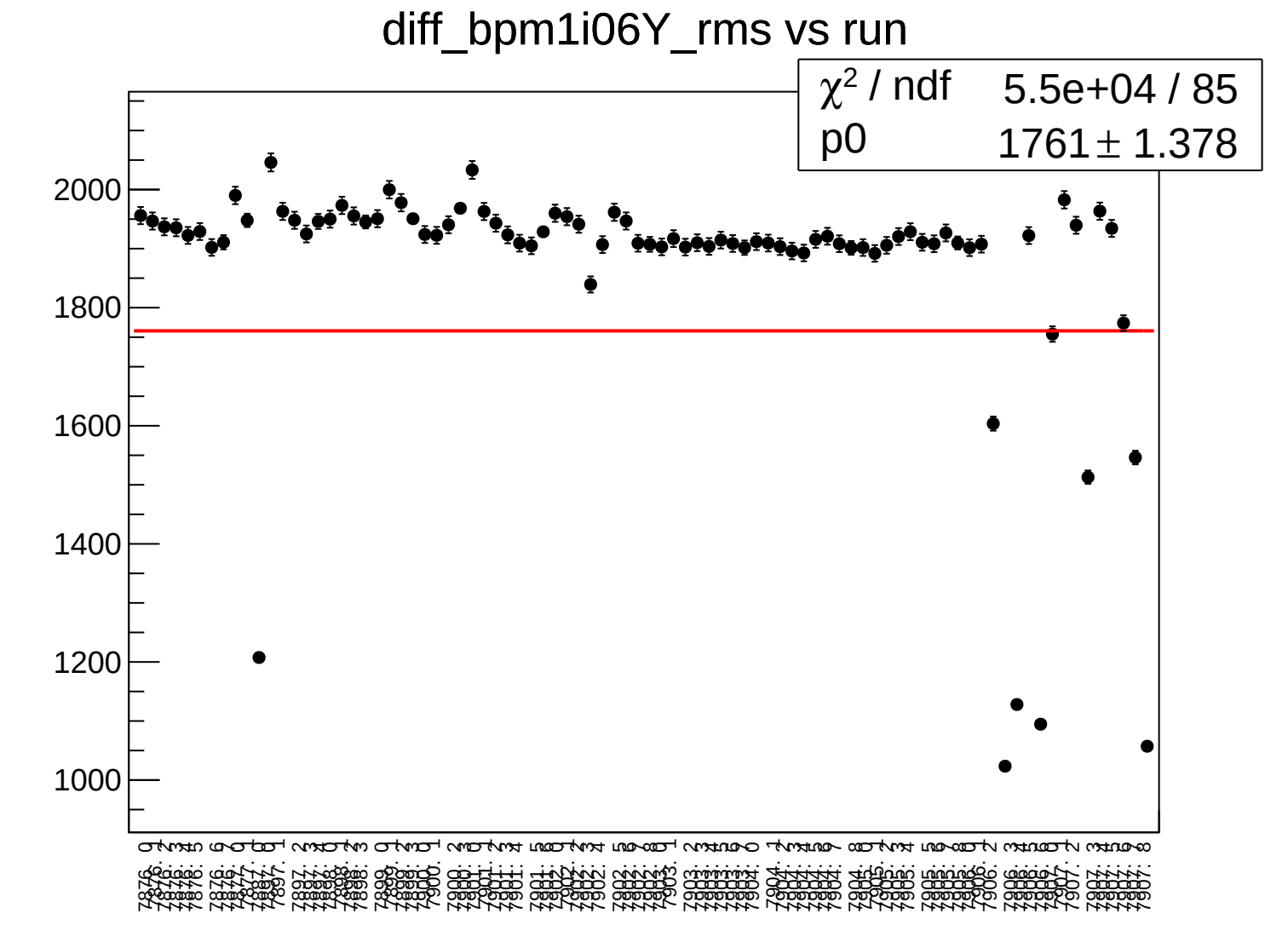

diff_bpm1i06X_mean vs run
χ² / ndf 91.01 / 85
p0 50.89 ± 1.782
pull
Entries 86
Mean −305.8
Std Dev 0

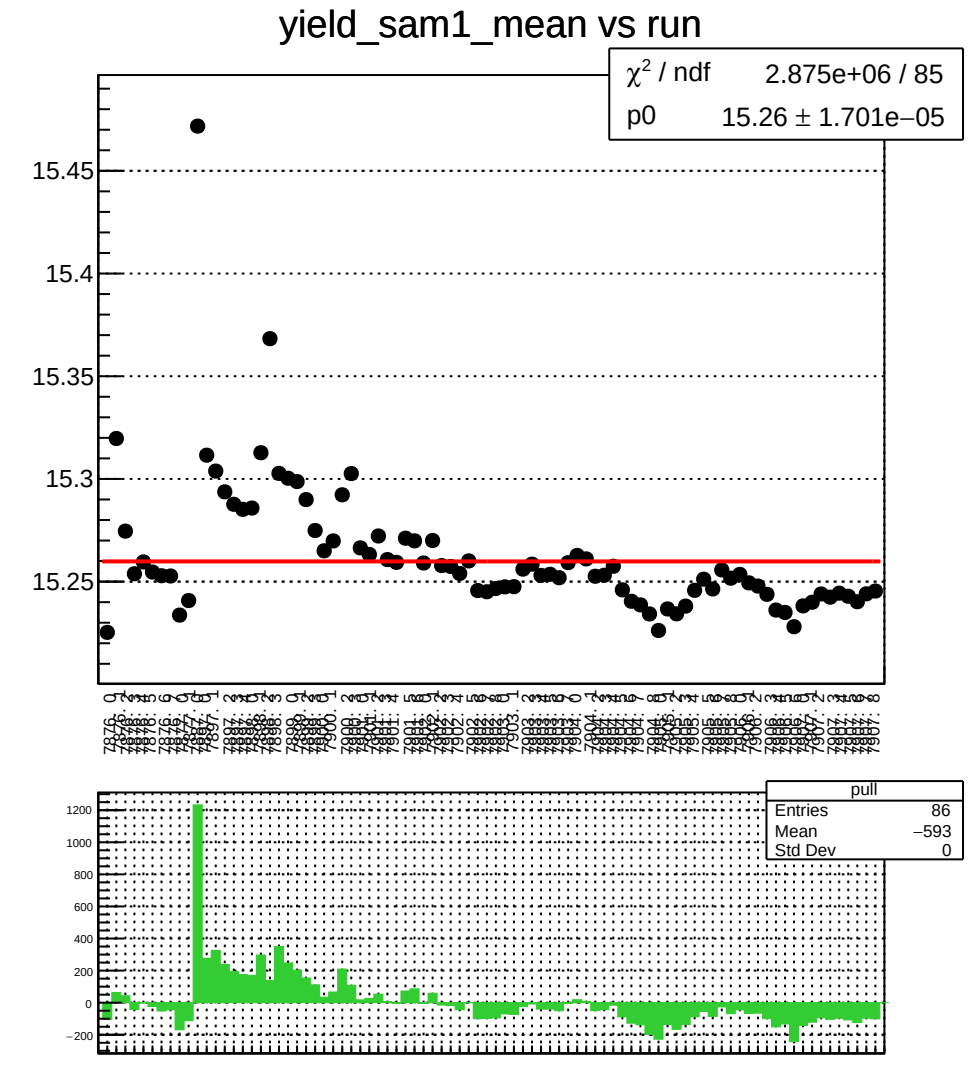

pull1D
Entries 86
Mean 0.02921
Std Dev 1.028

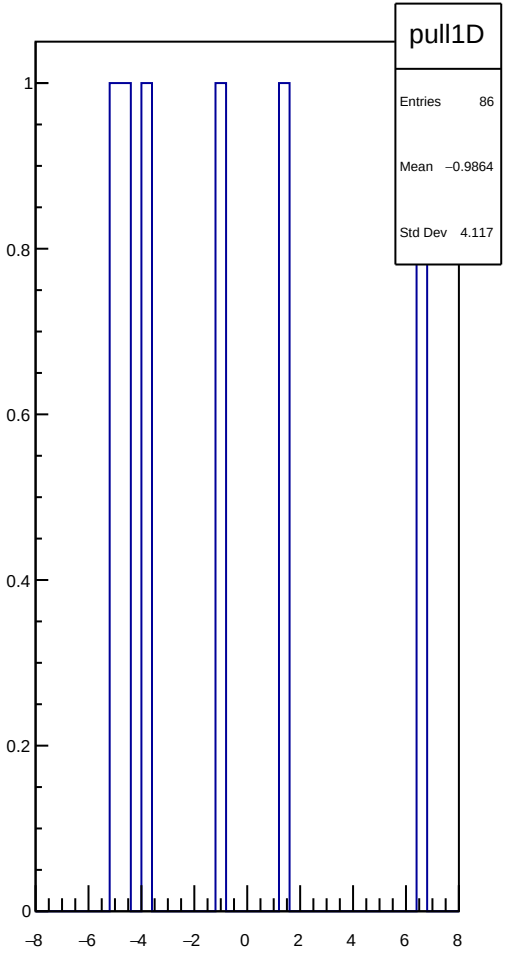

diff_bpm1i06X_rms vs run
χ² / ndf 2.501e+04 / 85
p0 1625 ± 1.26
1800
1700
1600
1500
1400
1300
1200
1100

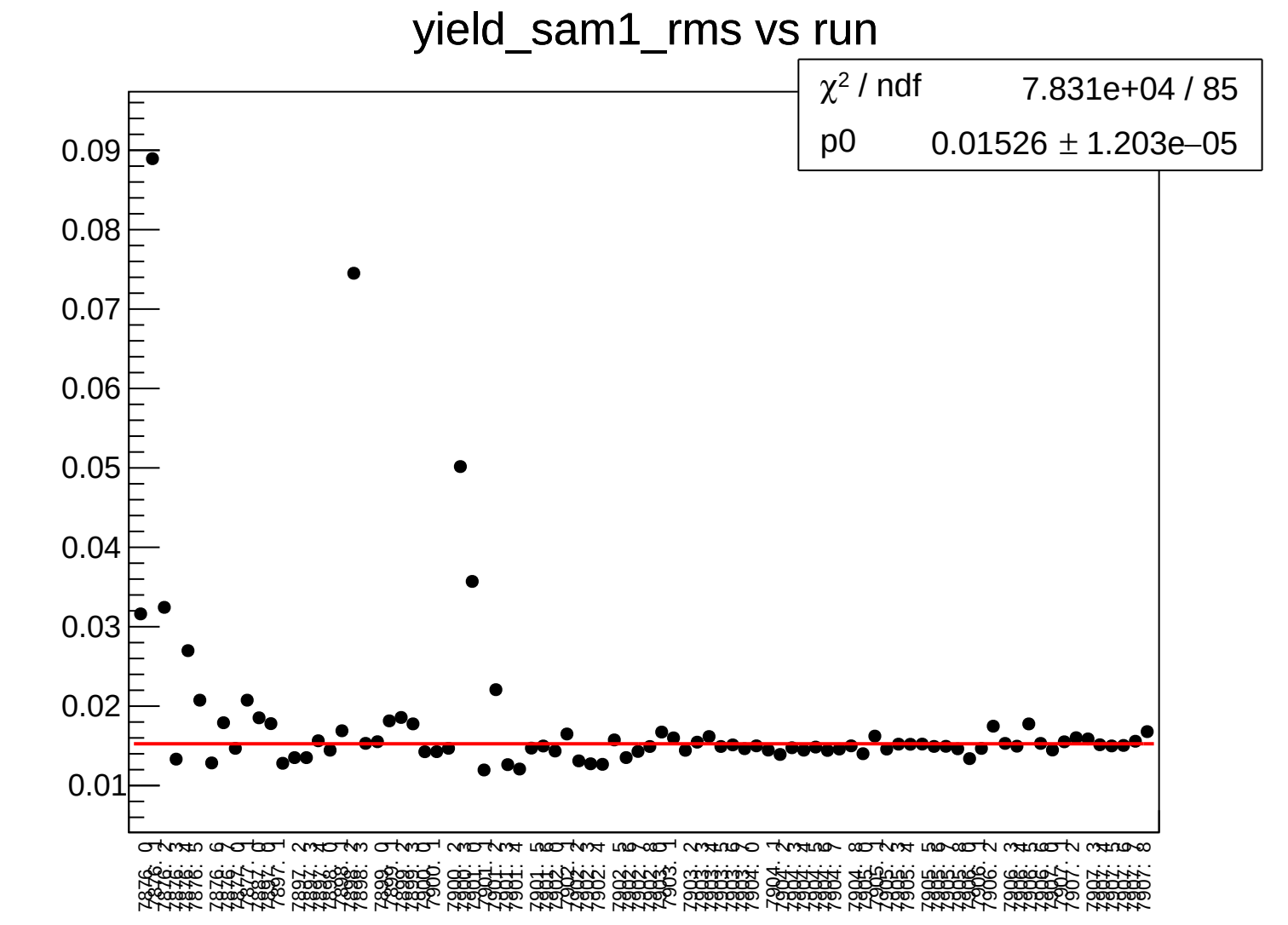

diff_bpm1i06Y_mean vs run
χ^2 / ndf 97.35 / 85
p0 2.156 ± 1.949
pull
Entries 86
Mean −252.1
Std Dev 0

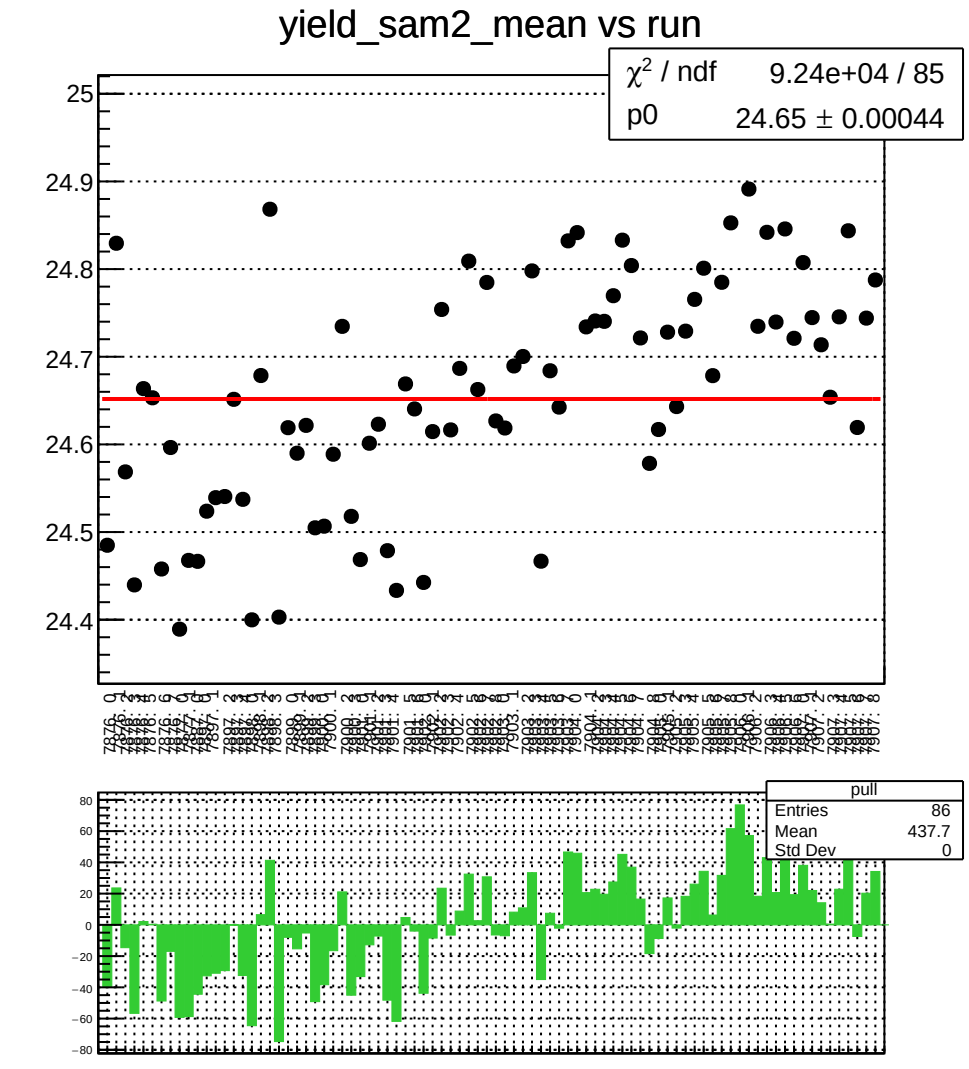

pull1D
Entries 86
Mean 0.04503
Std Dev 1.063

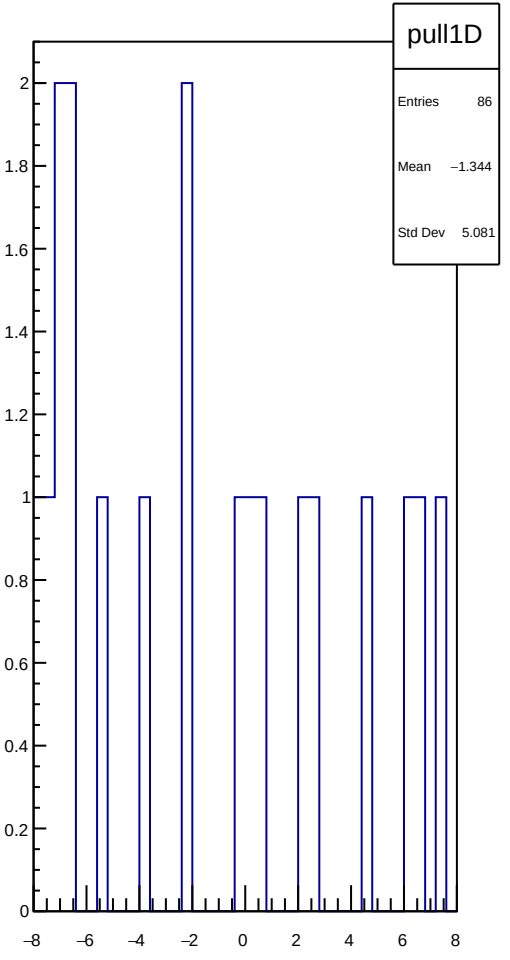

diff_bpm1i06Y_rms vs run
χ^2 / ndf 5.5e+04 / 85
p0 1761 ± 1.378
2000
1800
1600
1400
1200
1000

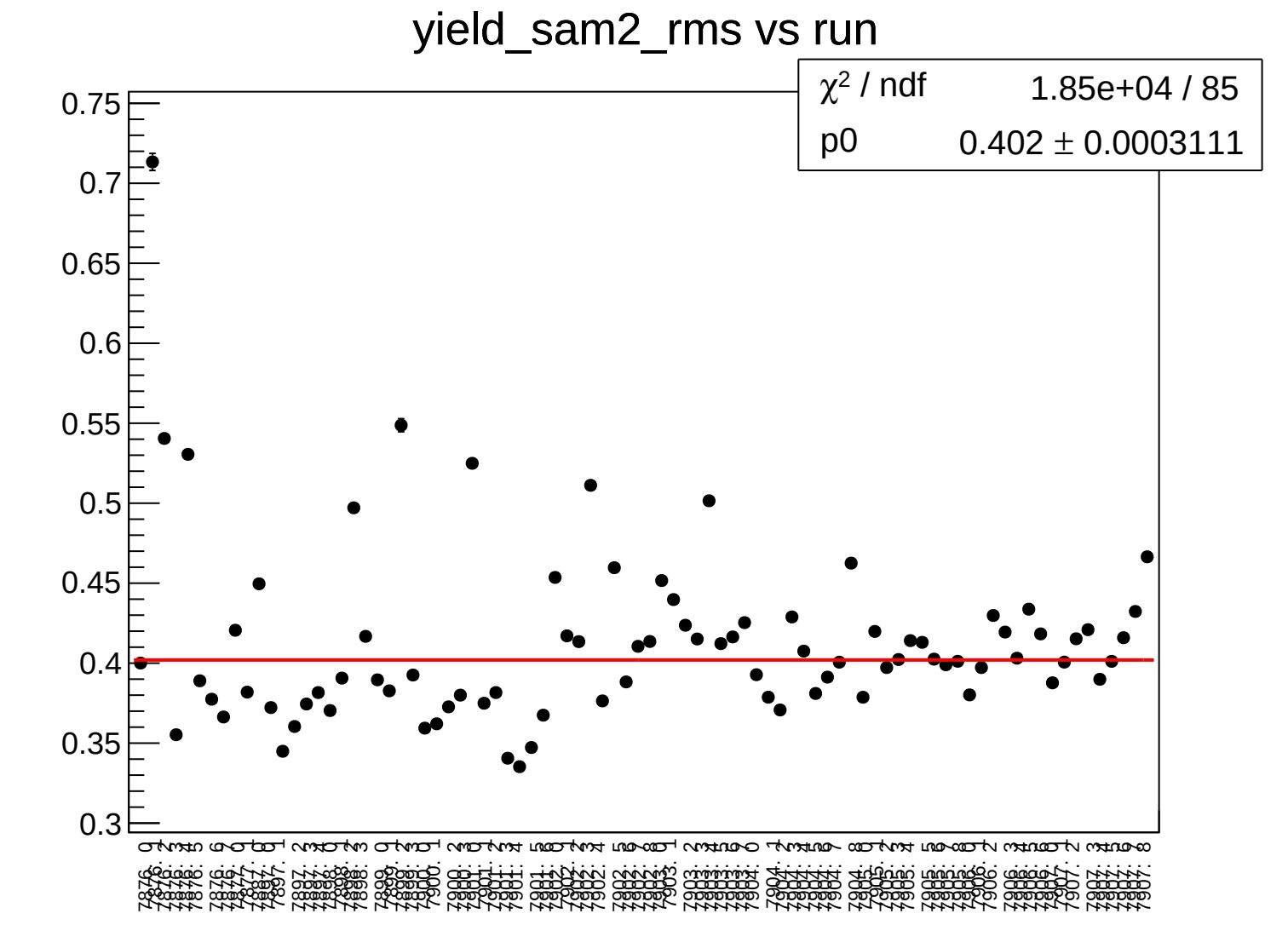

yield_sam1_mean vs run
χ² / ndf 2.875e+06 / 85
p0 15.26 ± 1.701e−05
15.45
15.4
15.35
15.3
15.25
pull
Entries 86
Mean −593
Std Dev 0
1200
1000
800
600
400
200
0
−200

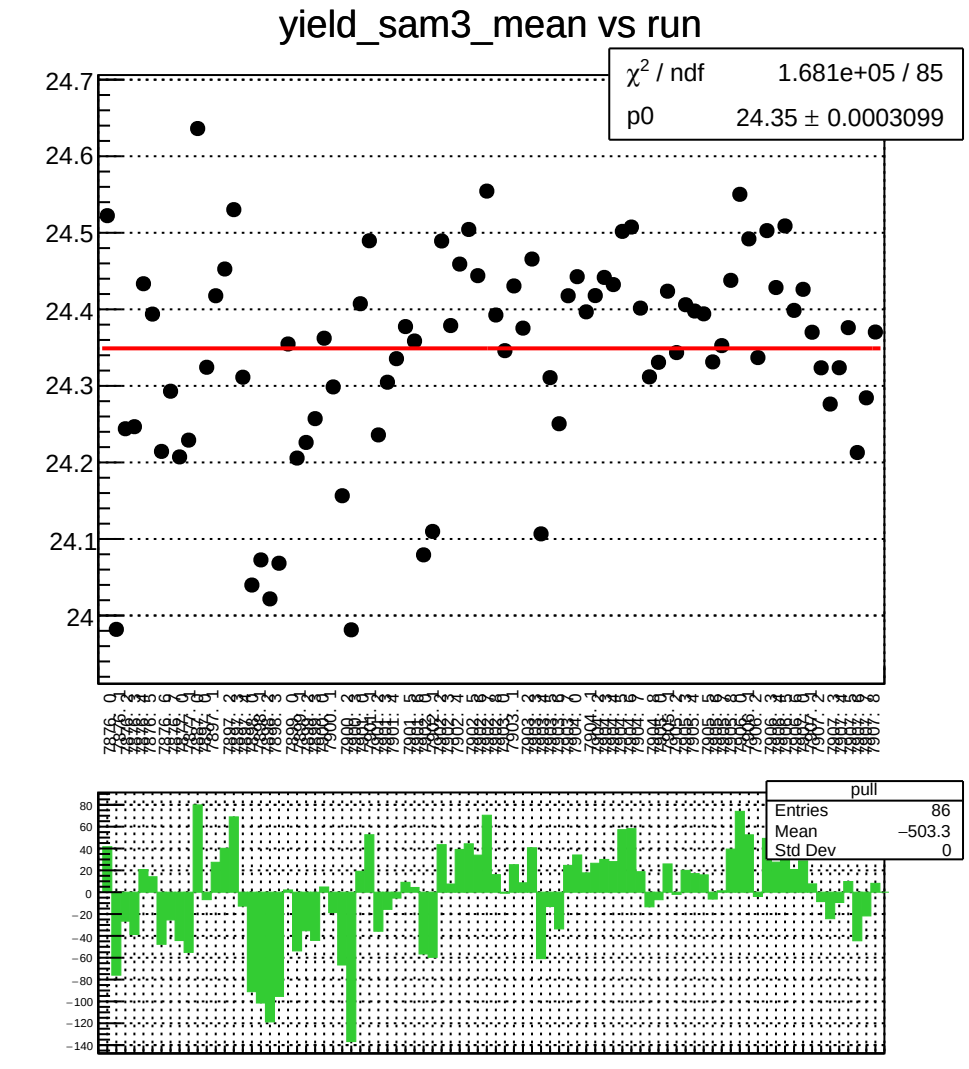

pull1D
Entries 86
Mean −0.9864
Std Dev 4.117
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

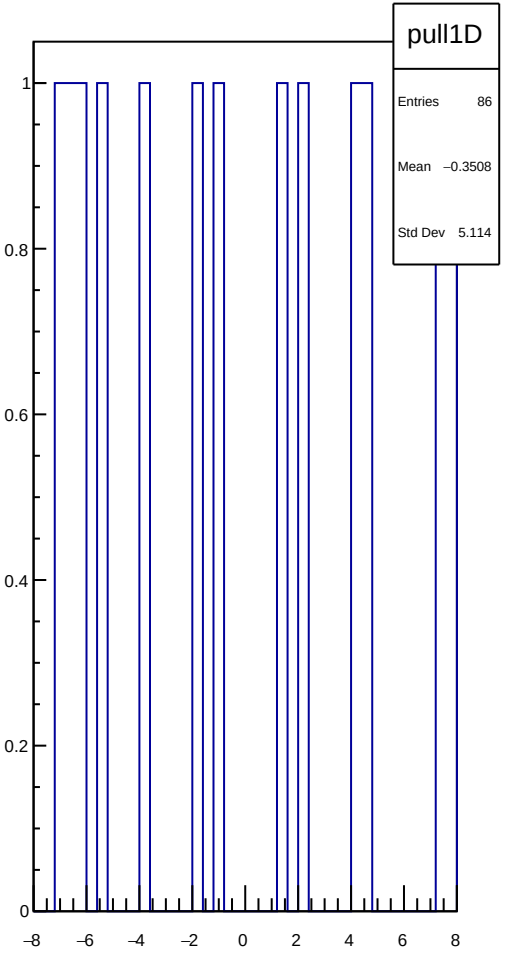

yield_sam1_rms vs run
χ² / ndf 7.831e+04 / 85
p0 0.01526 ± 1.203e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

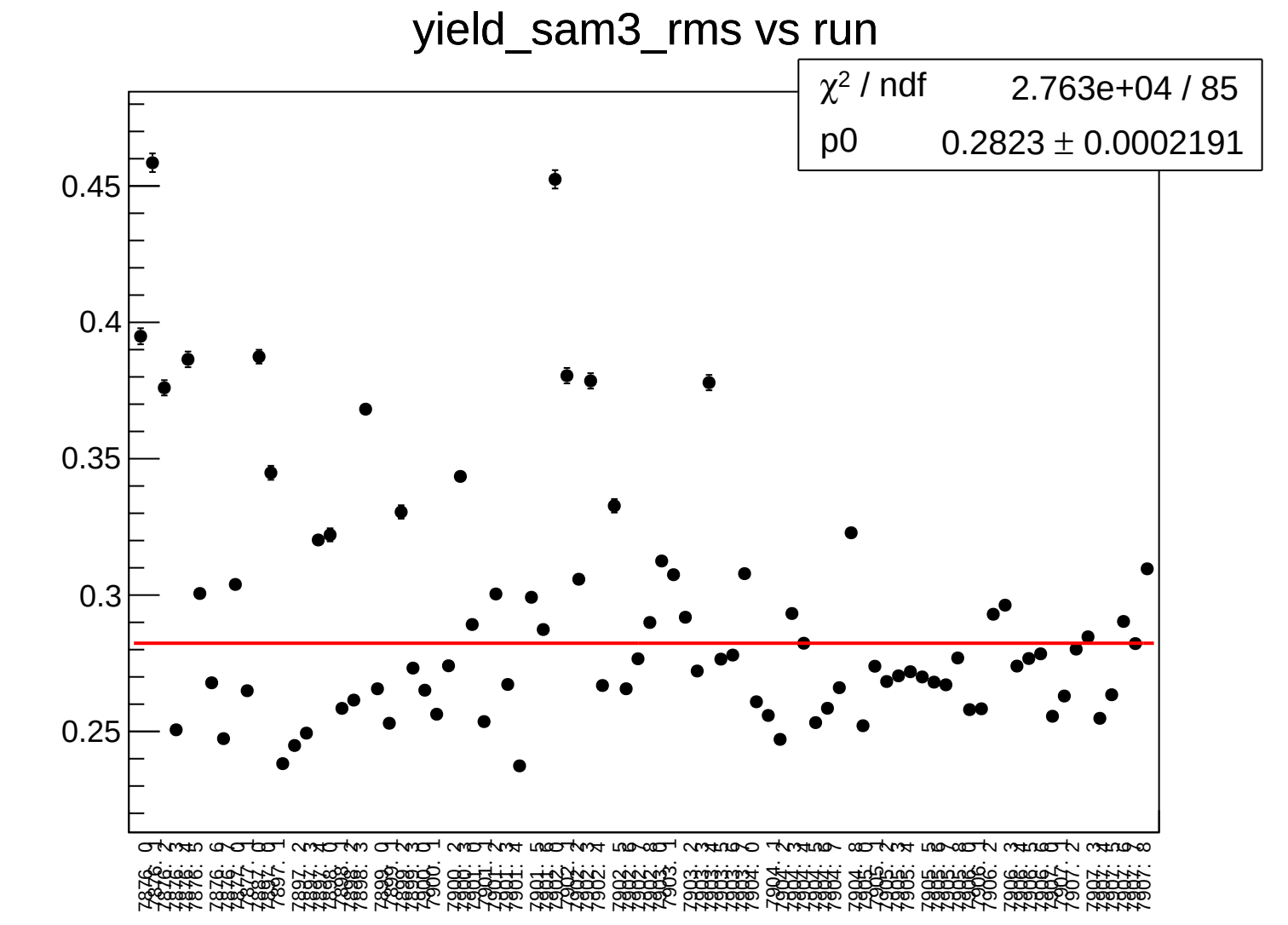

yield_sam2_mean vs run
χ² / ndf 9.24e+04 / 85
p0 24.65 ± 0.00044
25
24.9
24.8
24.7
24.6
24.5
24.4
pull
Entries 86
Mean 437.7
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

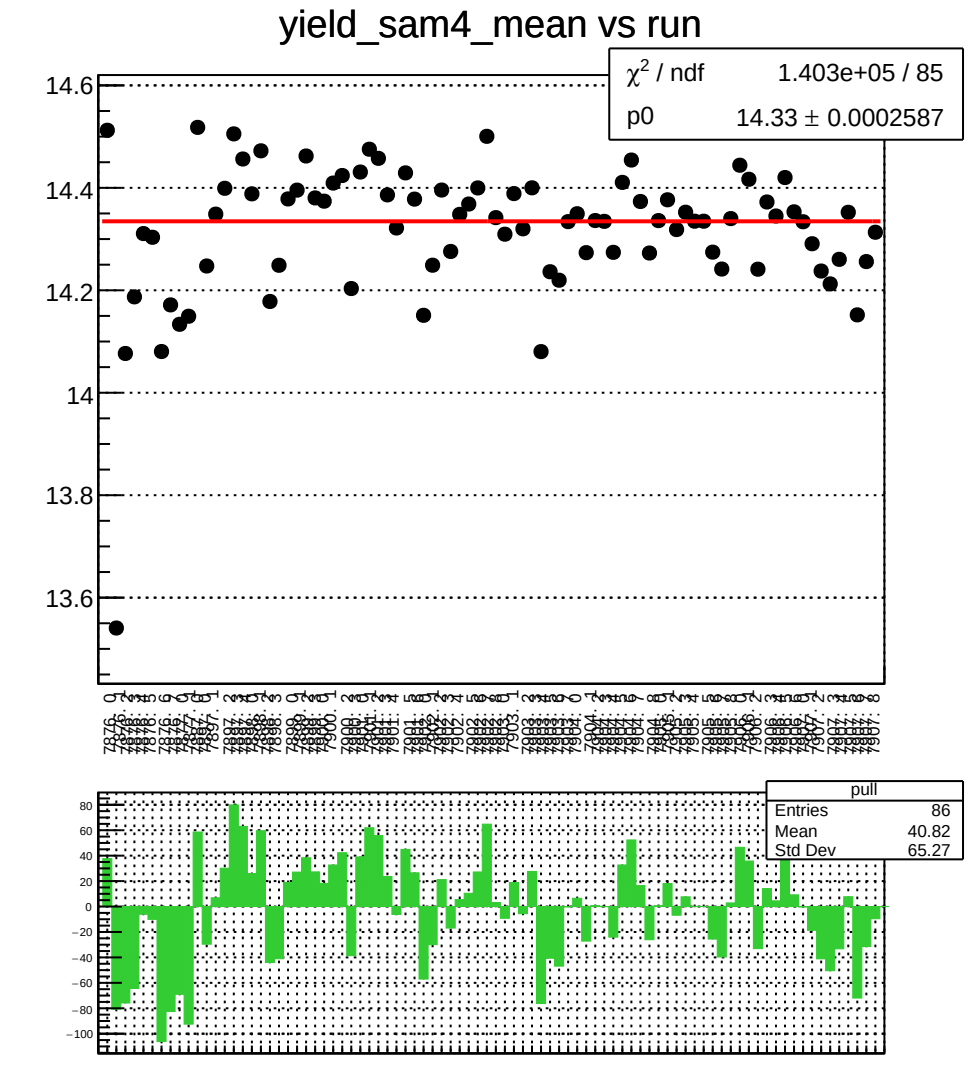

pull1D
Entries 86
Mean −1.344
Std Dev 5.081
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

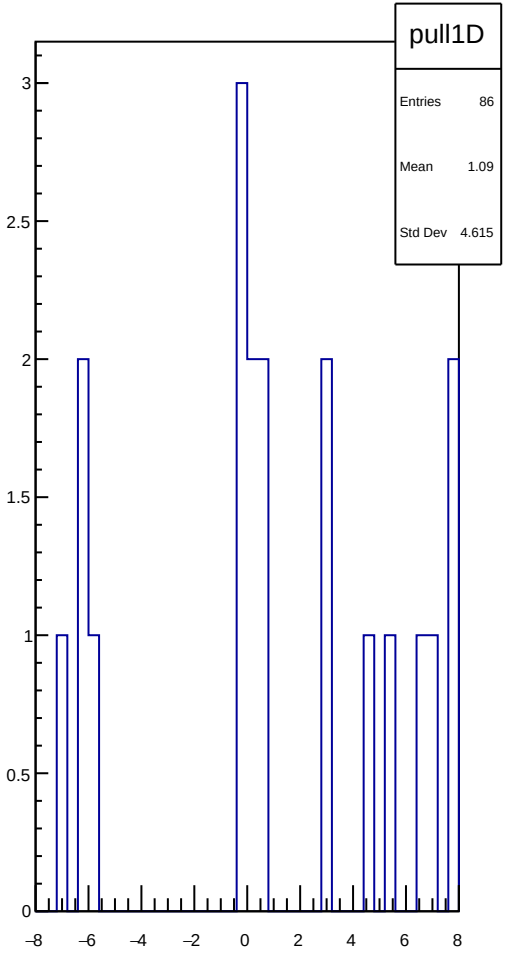

yield_sam2_rms vs run
χ² / ndf 1.85e+04 / 85
p0 0.402 ± 0.0003111
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

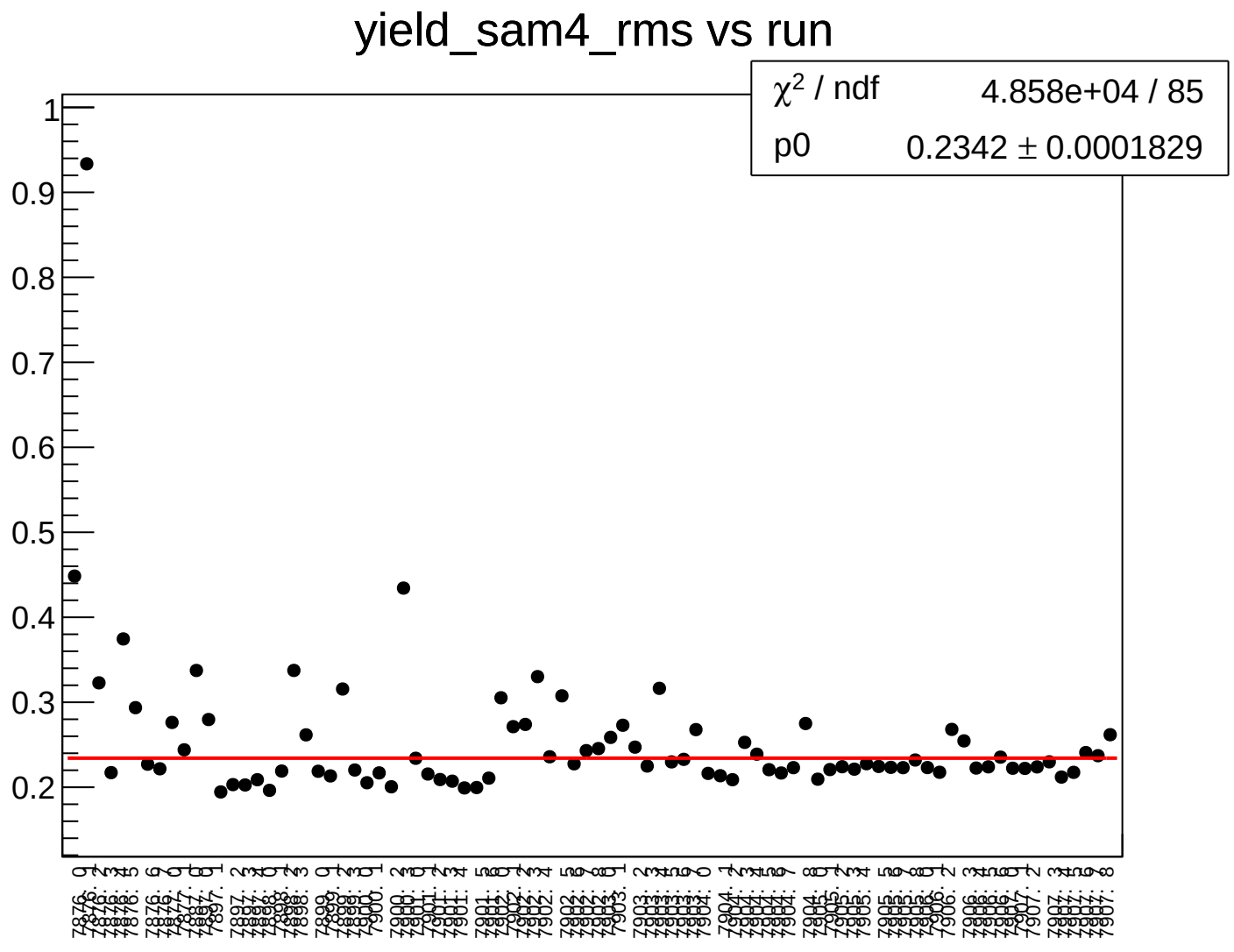

yield_sam3_mean vs run
χ² / ndf 1.681e+05 / 85
p0 24.35 ± 0.0003099
24.7
24.6
24.5
24.4
24.3
24.2
24.1
24
pull
Entries 86
Mean −503.3
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

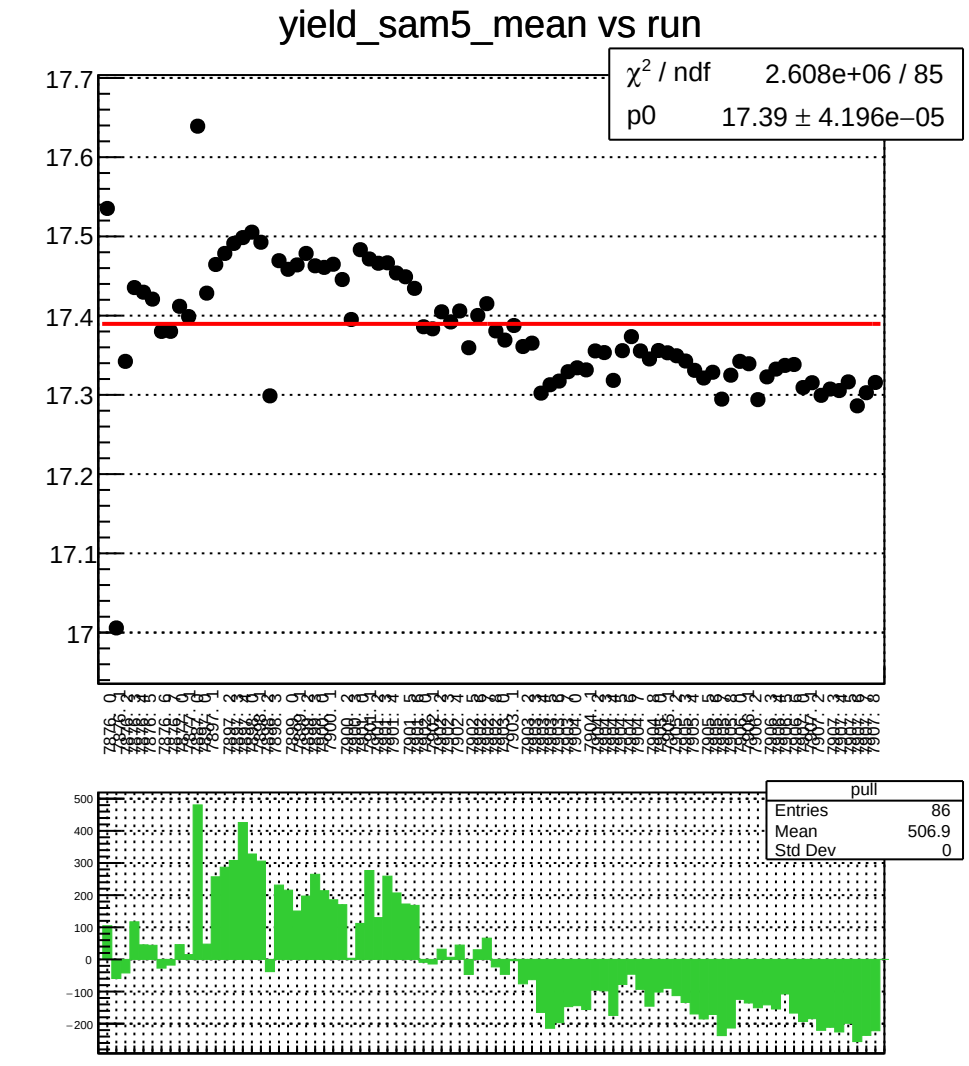

pull1D
Entries 86
Mean −0.3508
Std Dev 5.114
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

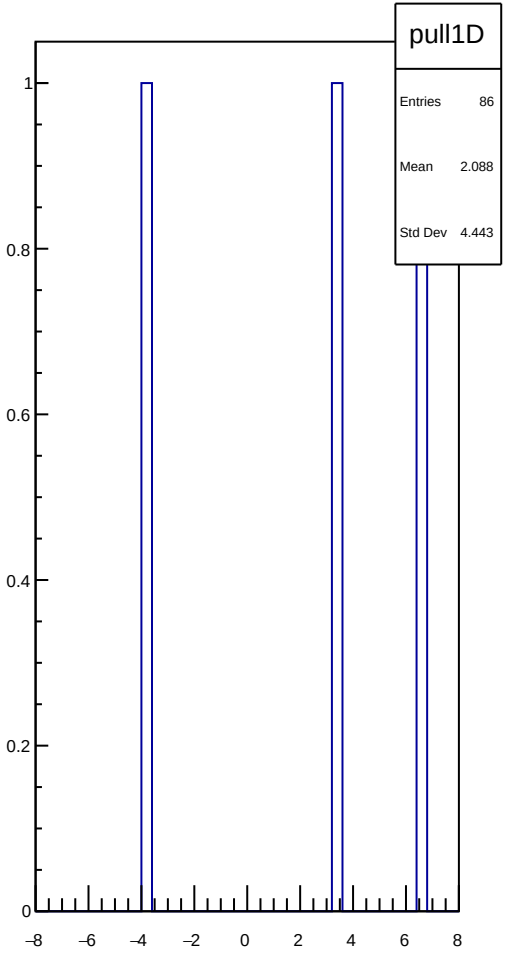

yield_sam3_rms vs run
χ² / ndf 2.763e+04 / 85
p0 0.2823 ± 0.0002191
0.45
0.4
0.35
0.3
0.25

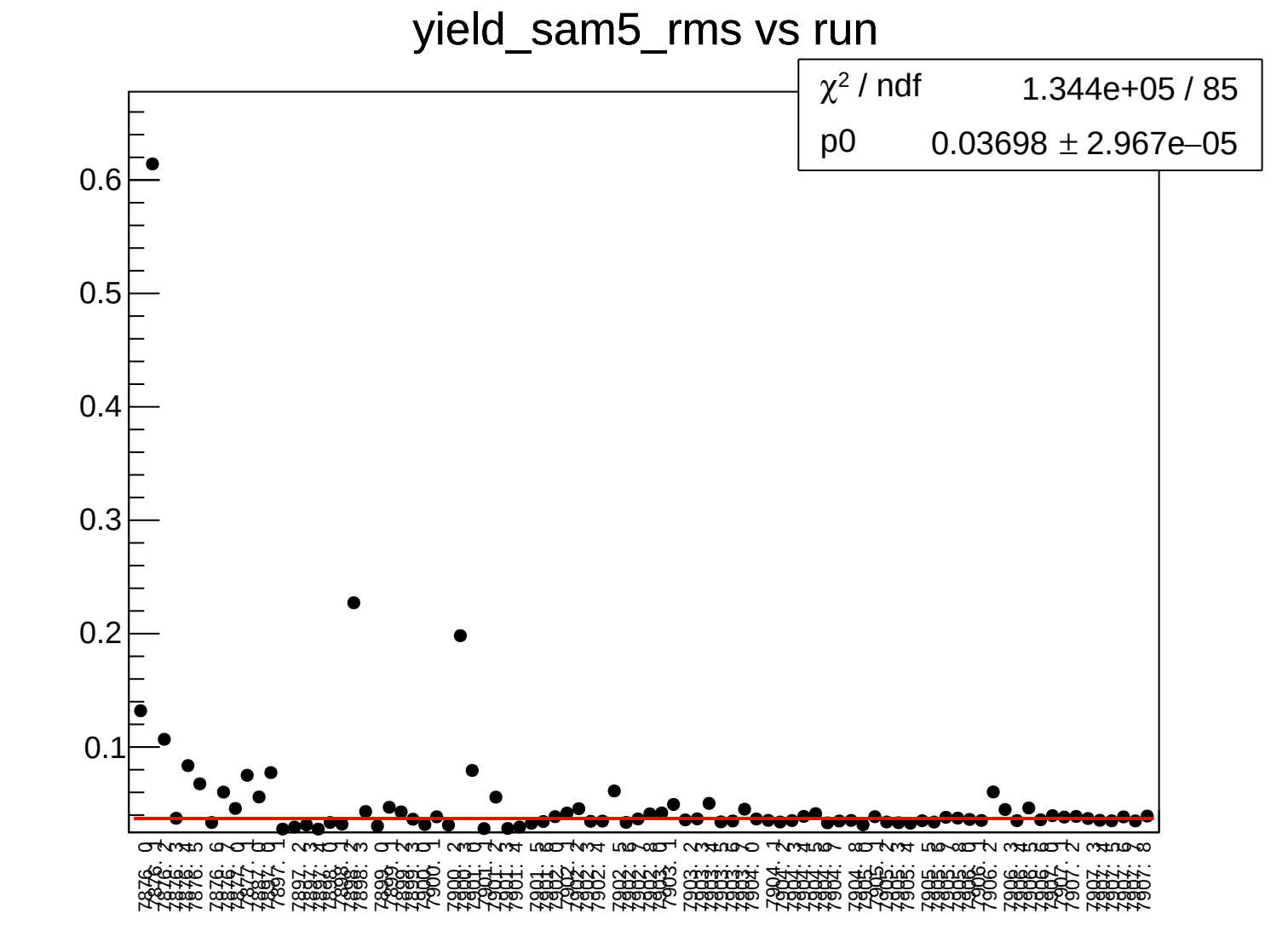

yield_sam4_mean vs run
χ² / ndf 1.403e+05 / 85
p0 14.33 ± 0.0002587
14.6
14.4
14.2
14
13.8
13.6
pull
Entries 86
Mean 40.82
Std Dev 65.27
80
60
40
20
0
−20
−40
−60
−80
−100

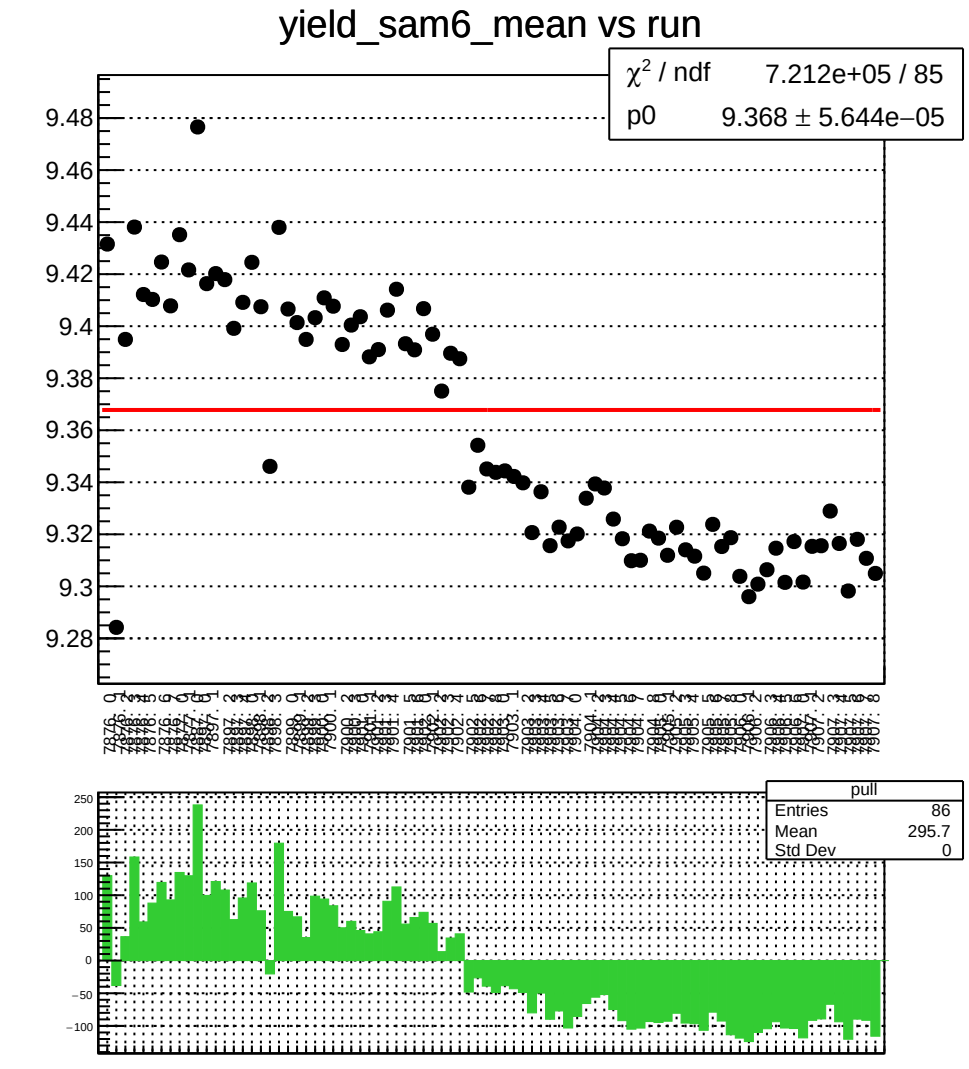

pull1D
Entries 86
Mean 1.09
Std Dev 4.615
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

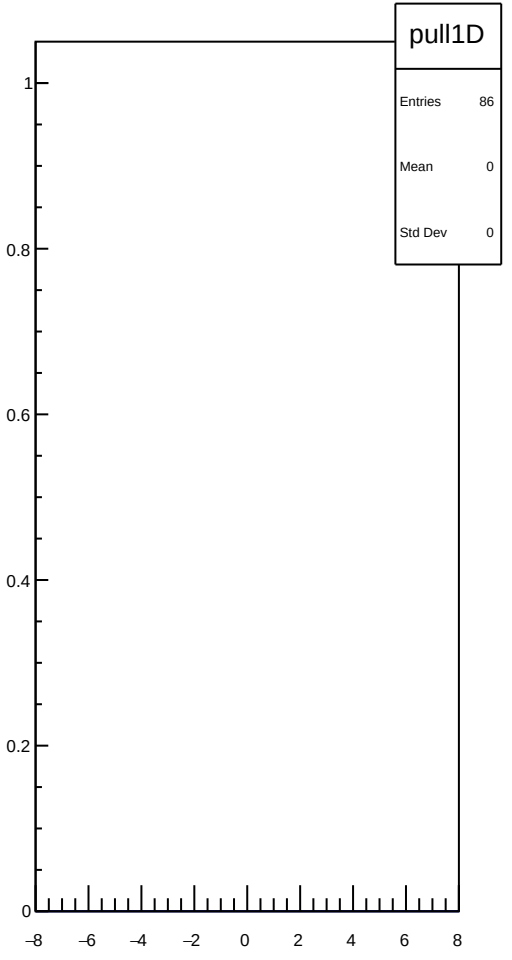

yield_sam4_rms vs run
χ² / ndf 4.858e+04 / 85
p0 0.2342 ± 0.0001829
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

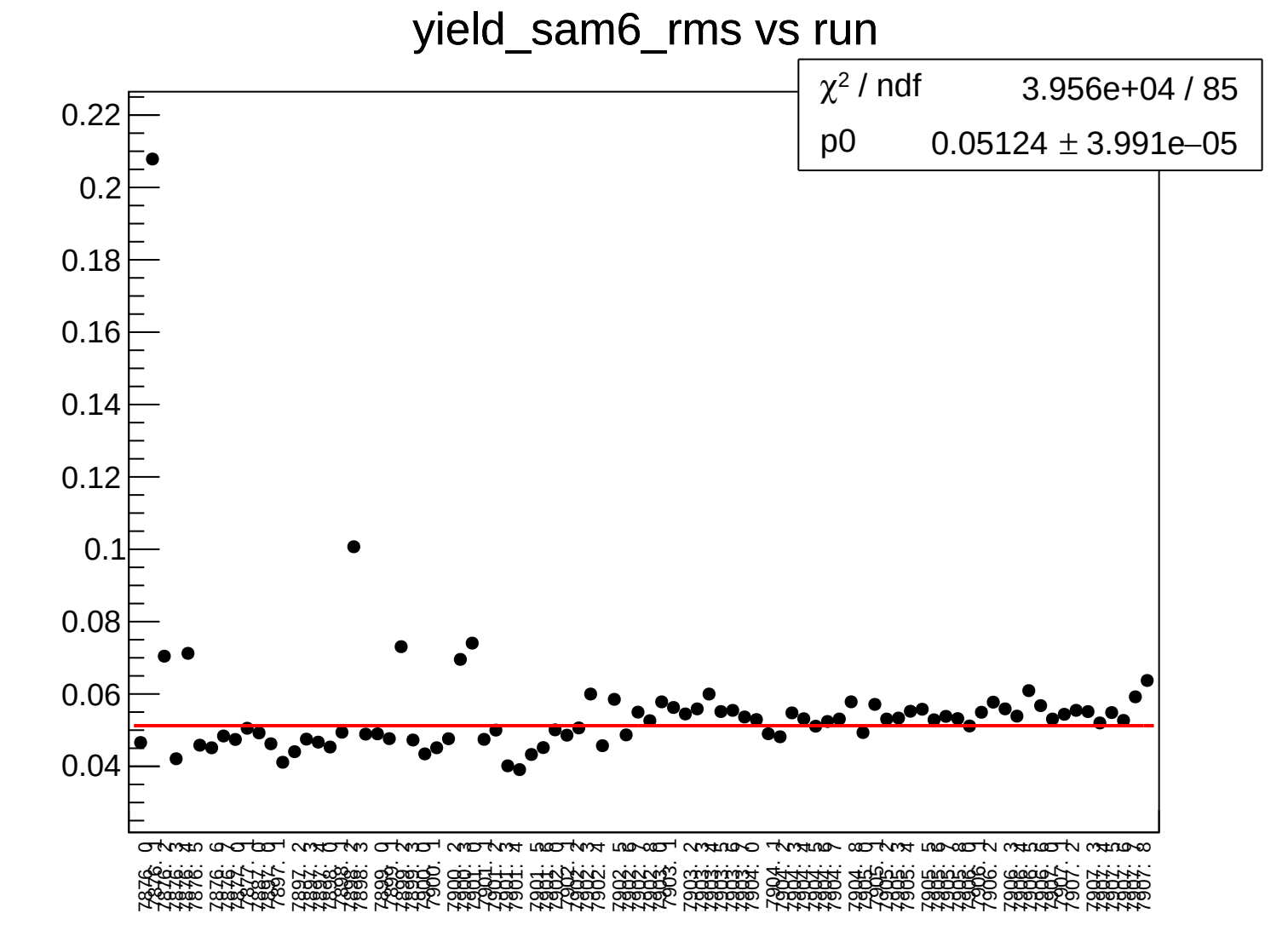

yield_sam5_mean vs run
χ² / ndf 2.608e+06 / 85
p0 17.39 ± 4.196e−05
17.7
17.6
17.5
17.4
17.3
17.2
17.1
17
pull
Entries 86
Mean 506.9
Std Dev 0
500
400
300
200
100
0
−100
−200

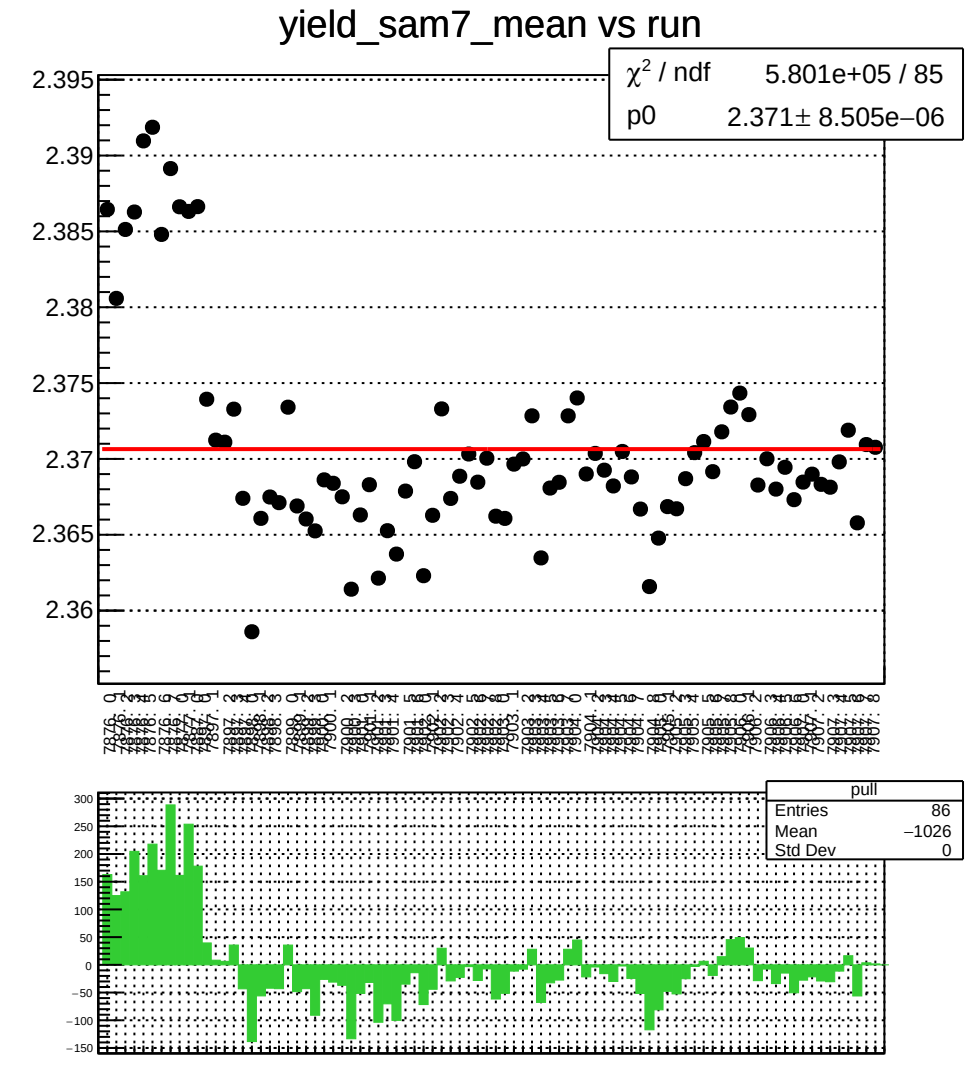

pull1D
Entries 86
Mean 2.088
Std Dev 4.443
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

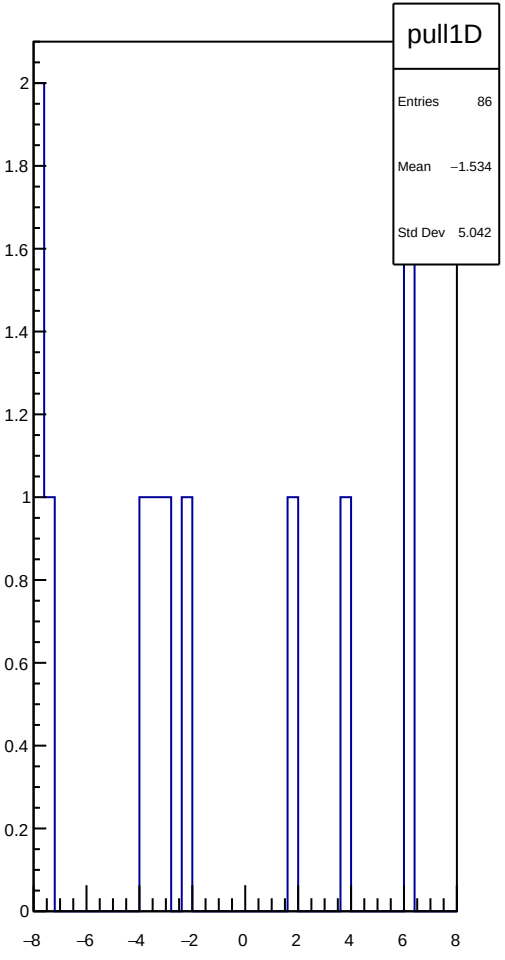

yield_sam5_rms vs run
χ² / ndf 1.344e+05 / 85
p0 0.03698 ± 2.967e–05
0.6
0.5
0.4
0.3
0.2
0.1

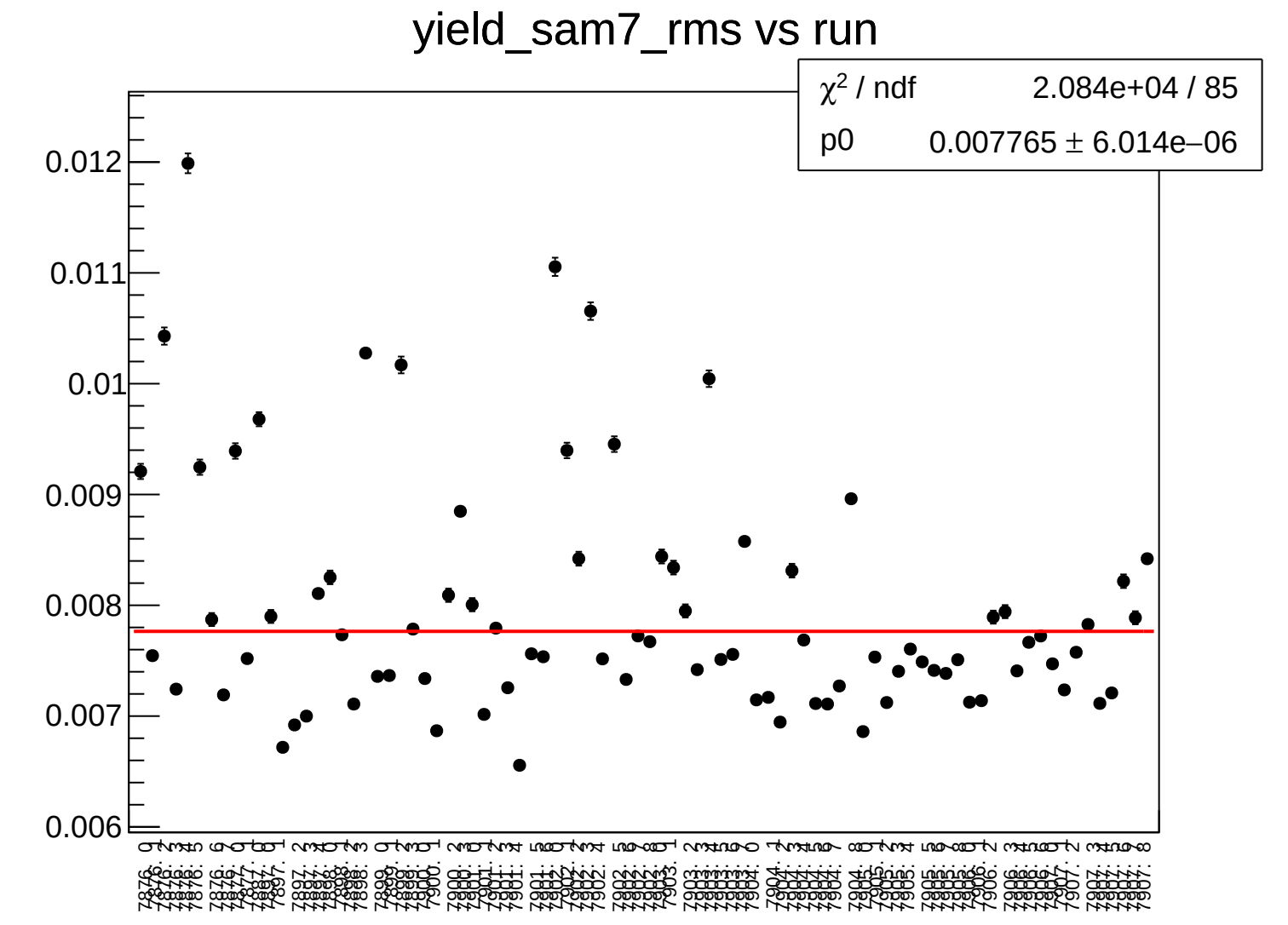

yield_sam6_mean vs run
χ² / ndf 7.212e+05 / 85
p0 9.368 ± 5.644e−05
9.48
9.46
9.44
9.42
9.4
9.38
9.36
9.34
9.32
9.3
9.28
pull
Entries 86
Mean 295.7
Std Dev 0
250
200
150
100
50
0
−50
−100

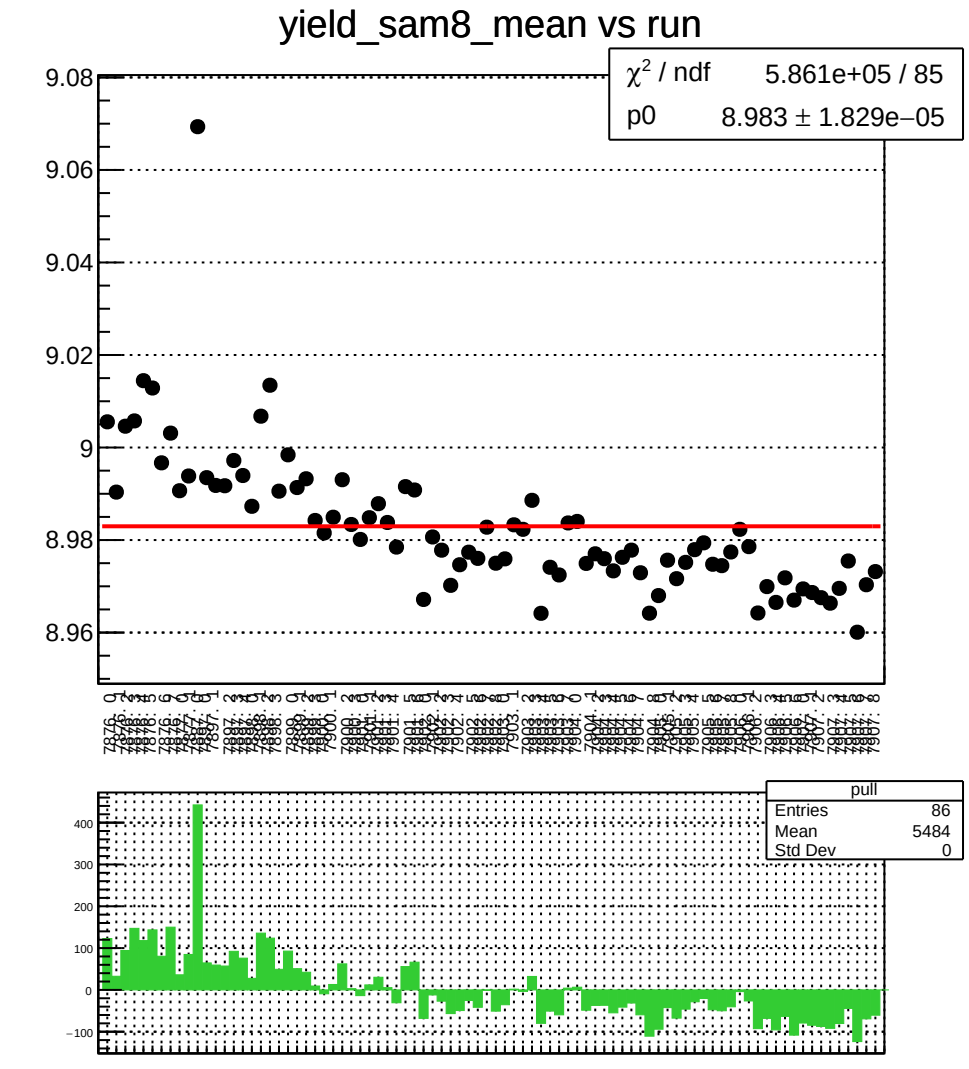

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

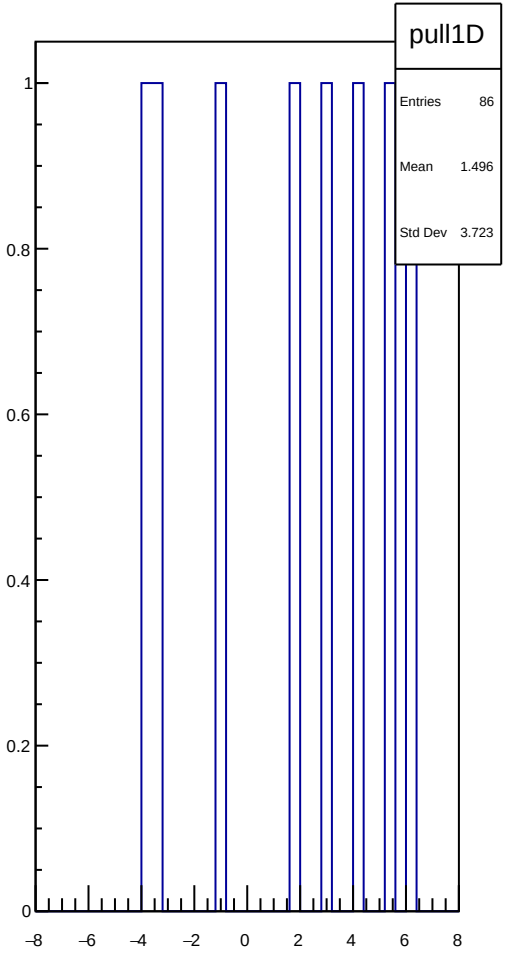

yield_sam6_rms vs run
χ² / ndf 3.956e+04 / 85
p0 0.05124 ± 3.991e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

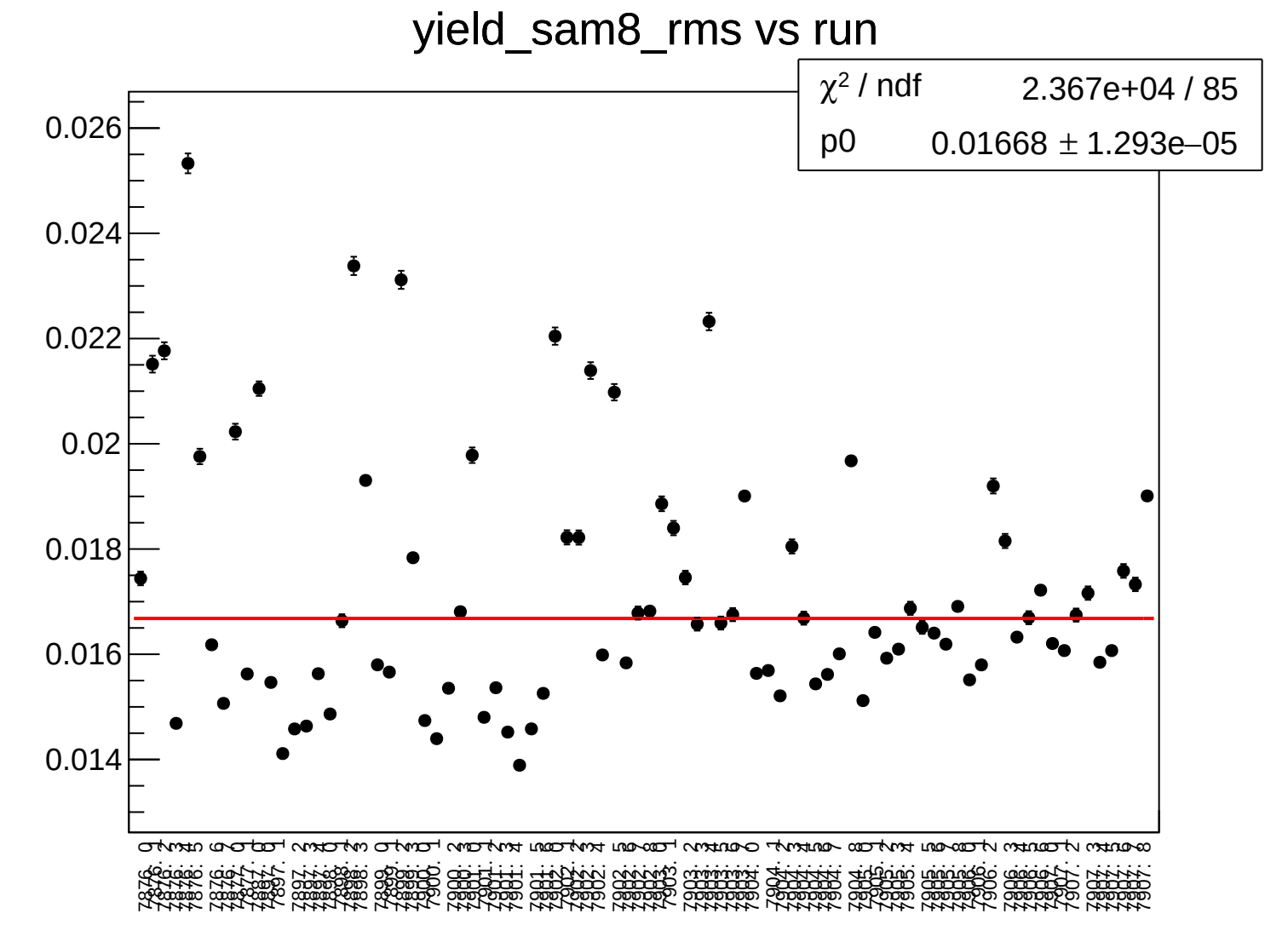

yield_sam7_mean vs run
χ² / ndf 5.801e+05 / 85
p0 2.371± 8.505e−06
2.395
2.39
2.385
2.38
2.375
2.37
2.365
2.36
pull
Entries 86
Mean −1026
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

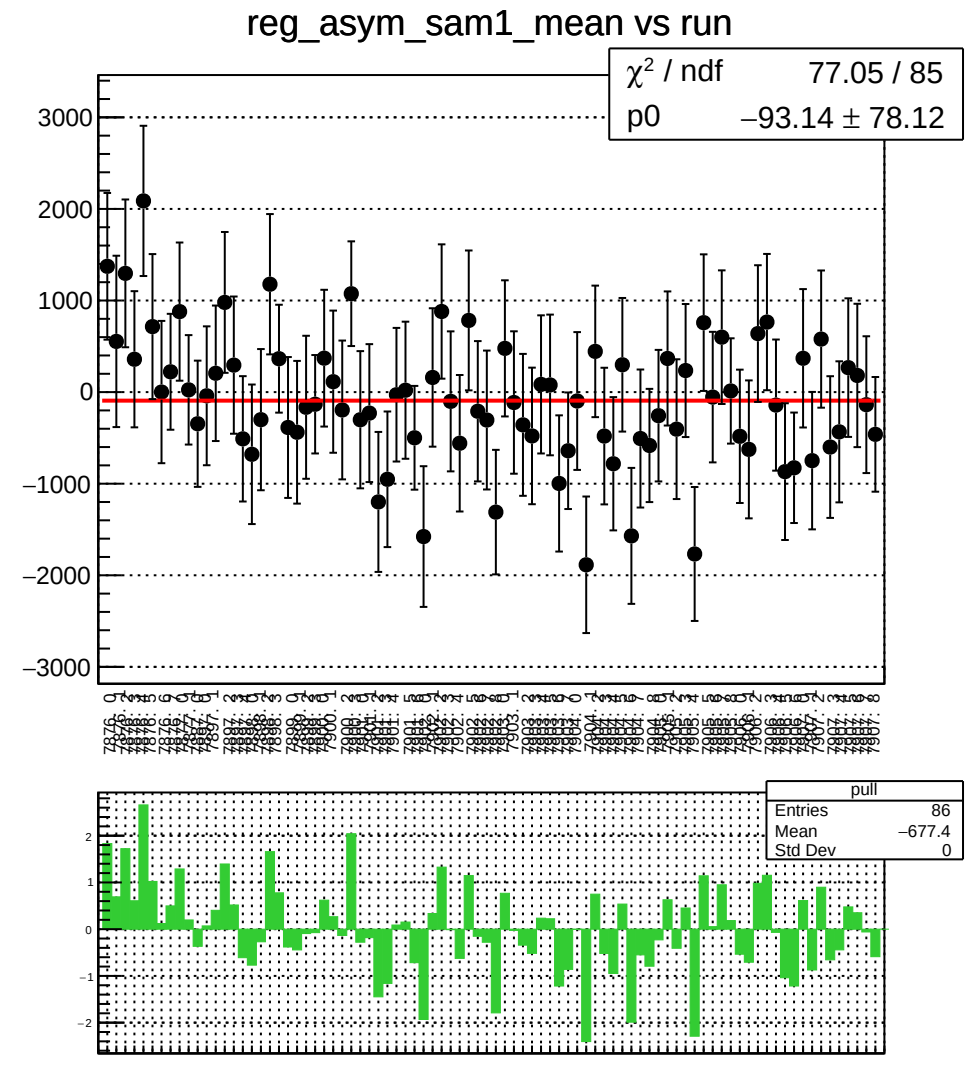

pull1D
Entries 86
Mean −1.534
Std Dev 5.042
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

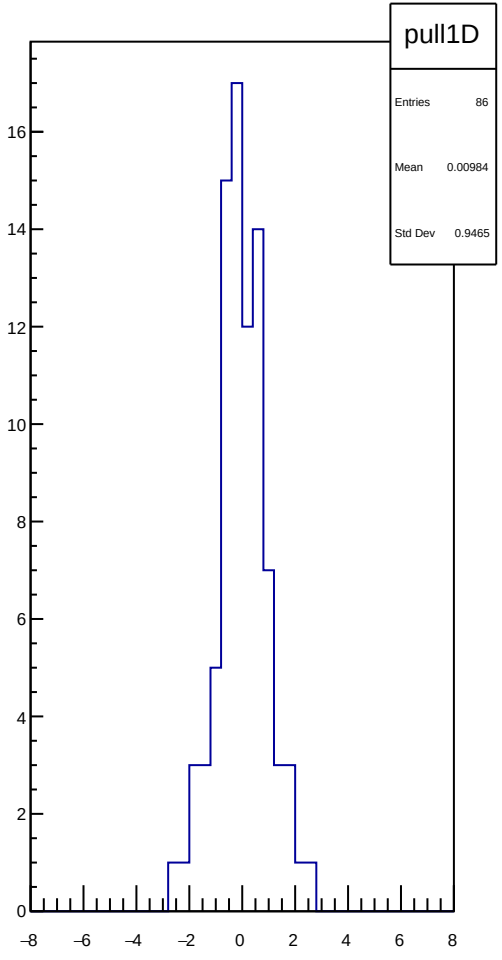

yield_sam7_rms vs run
χ² / ndf 2.084e+04 / 85
p0 0.007765 ± 6.014e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

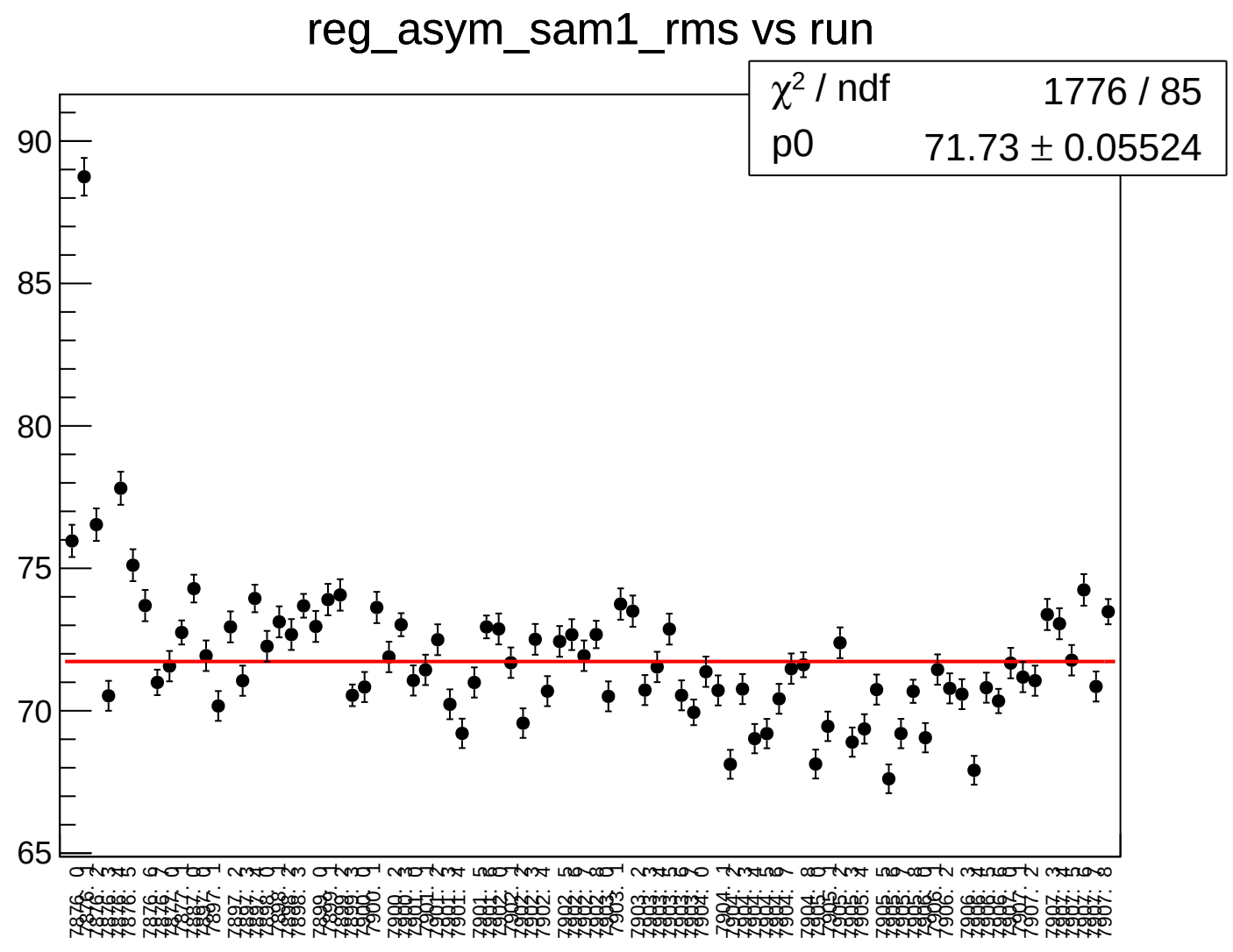

yield_sam8_mean vs run
χ² / ndf 5.861e+05 / 85
p0 8.983 ± 1.829e−05
9.08
9.06
9.04
9.02
9
8.98
8.96
pull
Entries 86
Mean 5484
Std Dev 0
400
300
200
100
0
−100

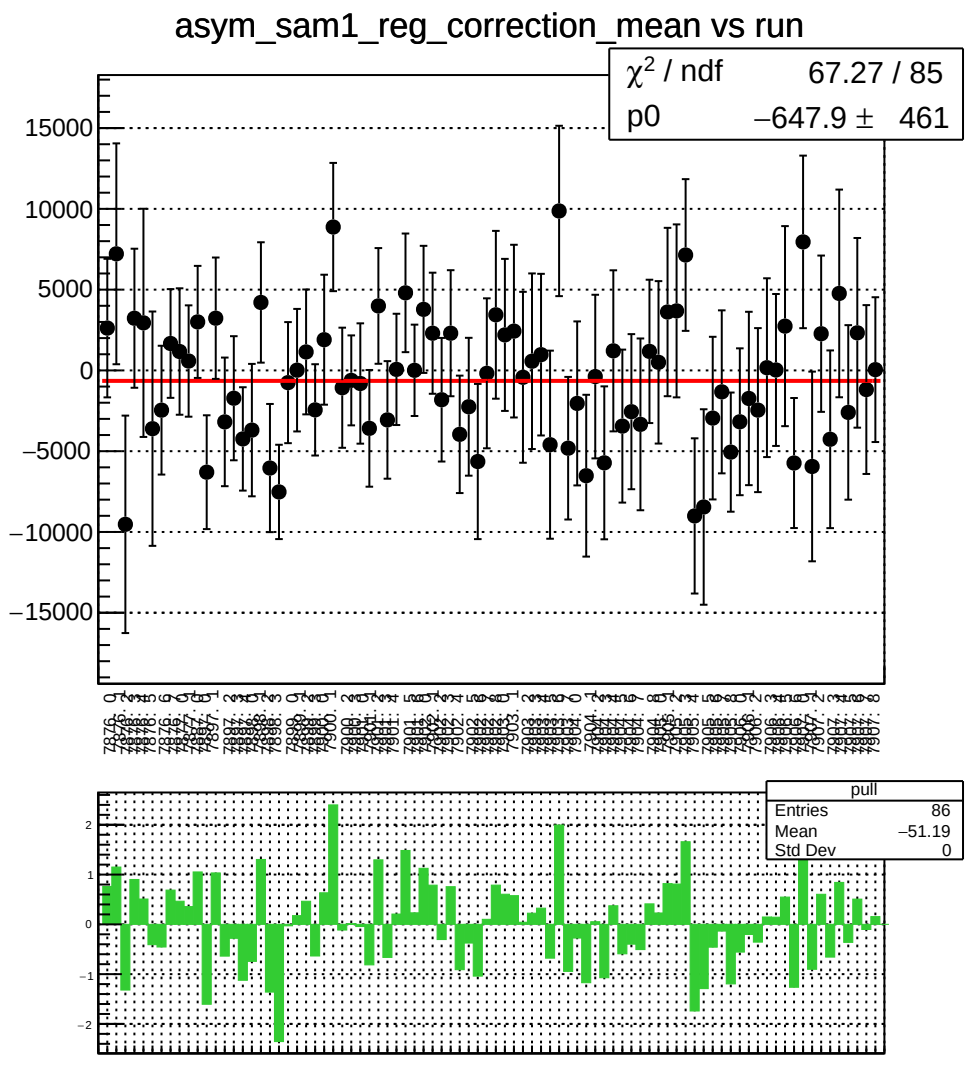

pull1D
Entries 86
Mean 1.496
Std Dev 3.723
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

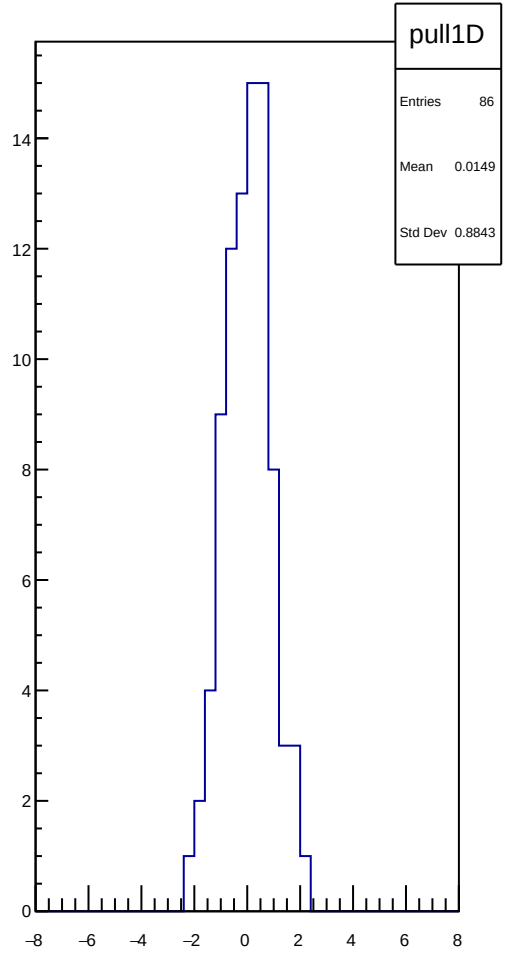

yield_sam8_rms vs run
χ² / ndf 2.367e+04 / 85
p0 0.01668 ± 1.293e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014

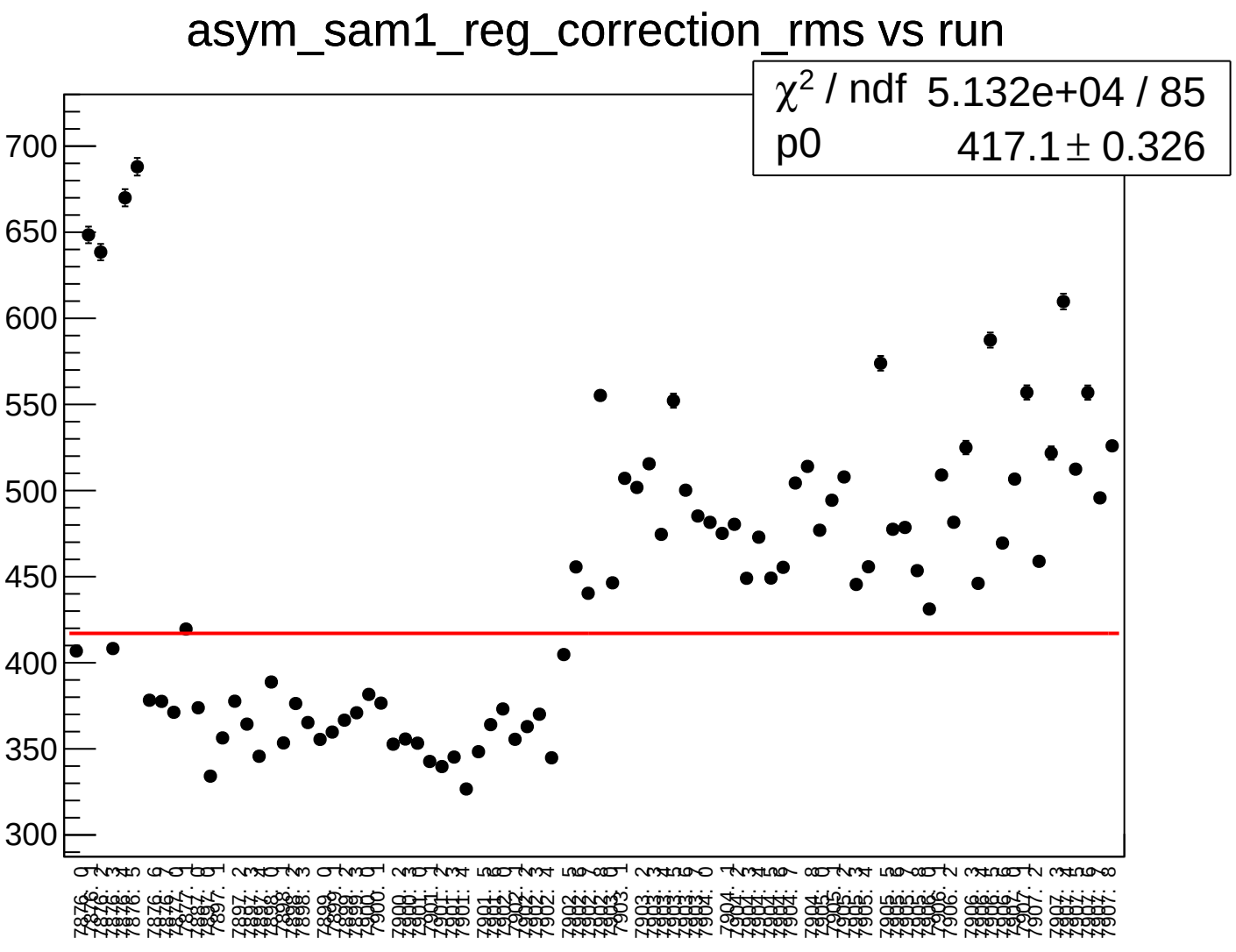

reg_asym_sam1_mean vs run
χ² / ndf 77.05 / 85
p0 −93.14 ± 78.12
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −677.4
Std Dev 0
2
1
0
−1
−2

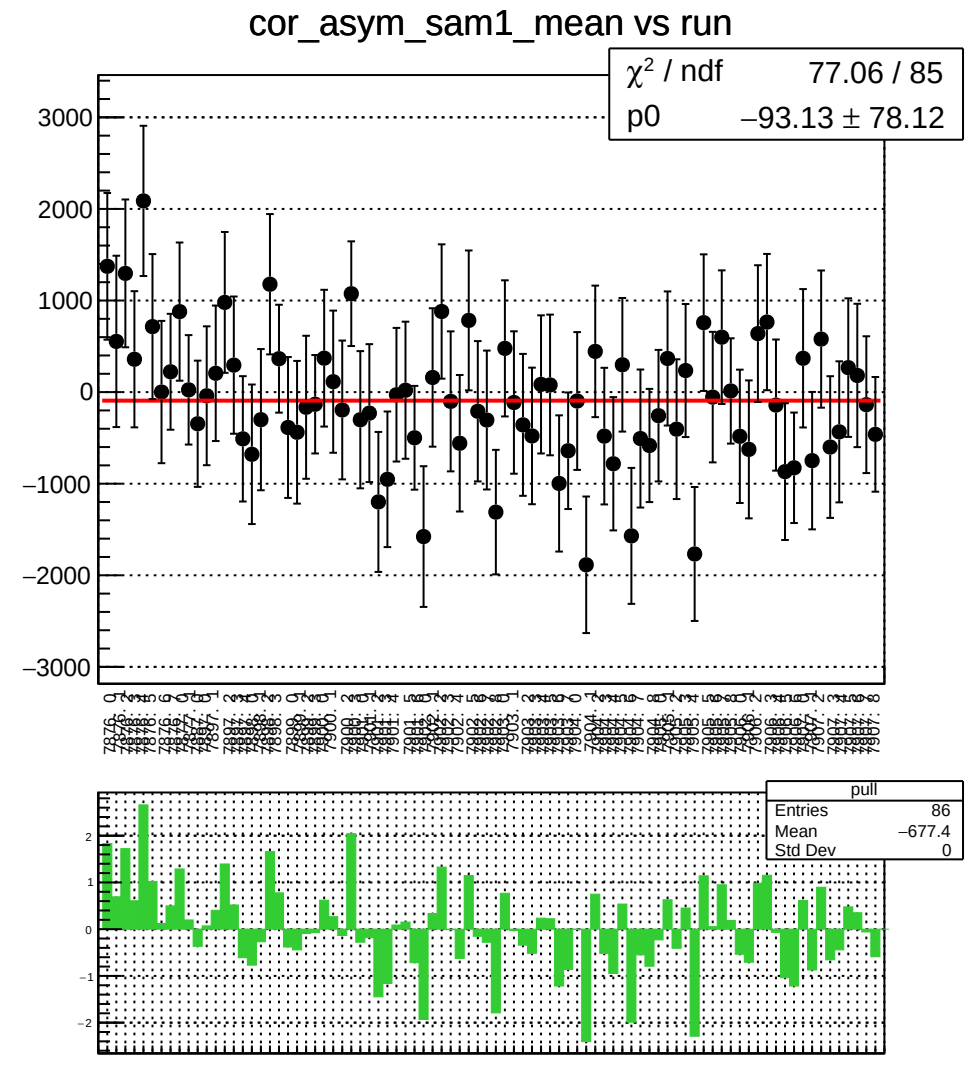

pull1D
Entries 86
Mean 0.00984
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

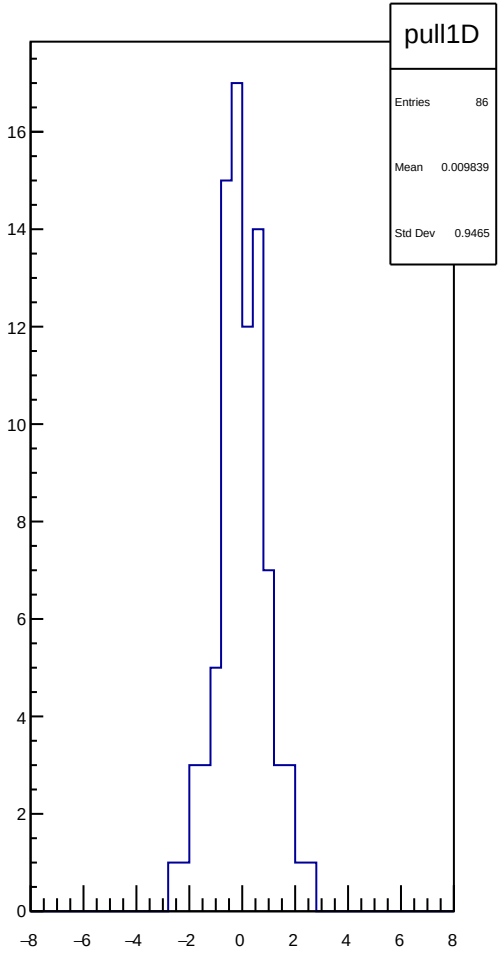

reg_asym_sam1_rms vs run
χ² / ndf 1776 / 85
p0 71.73 ± 0.05524
90
85
80
75
70
65

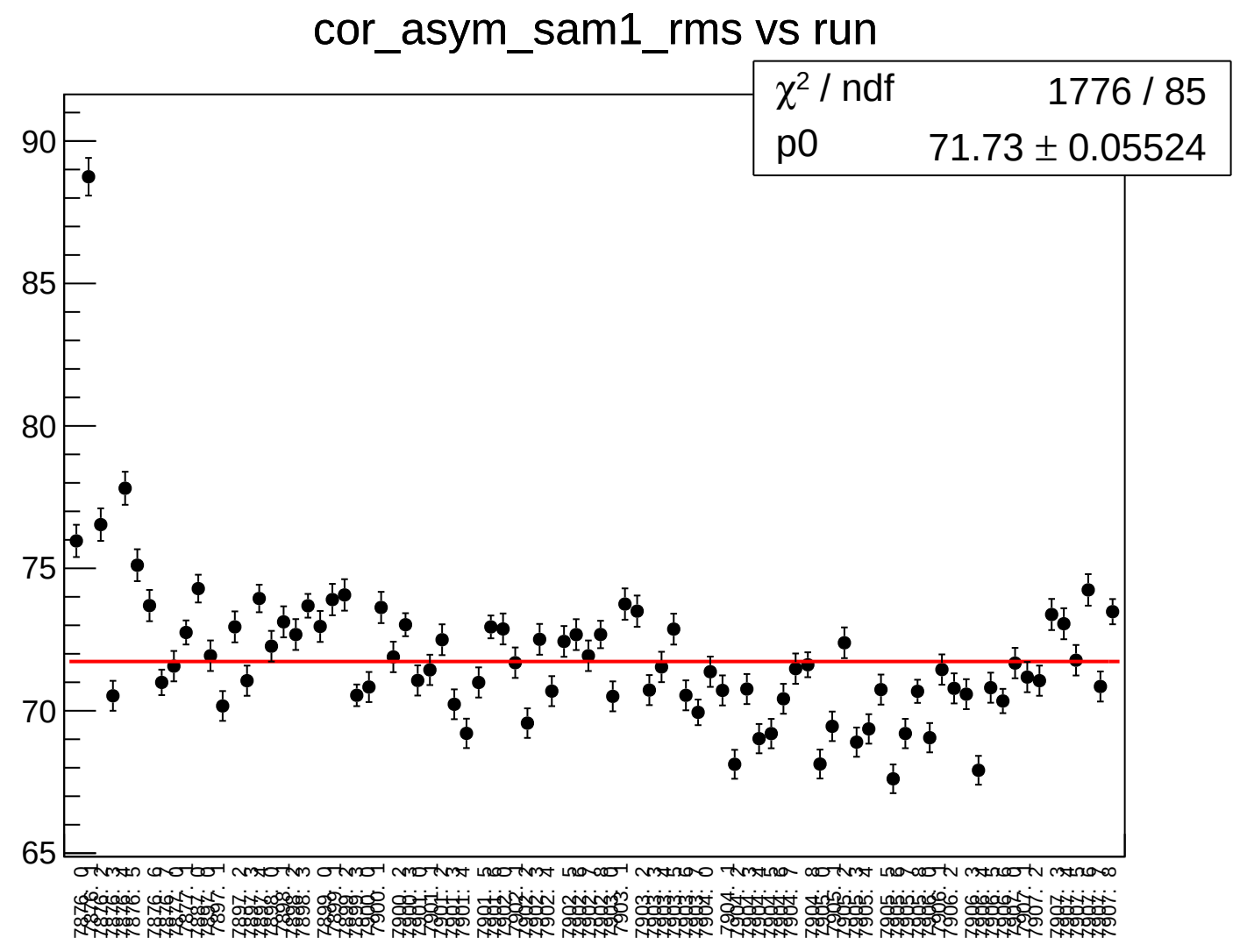

asym_sam1_reg_correction_mean vs run
χ² / ndf 67.27 / 85
p0 −647.9 ± 461
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −51.19
Std Dev 0
2
1
0
−1
−2

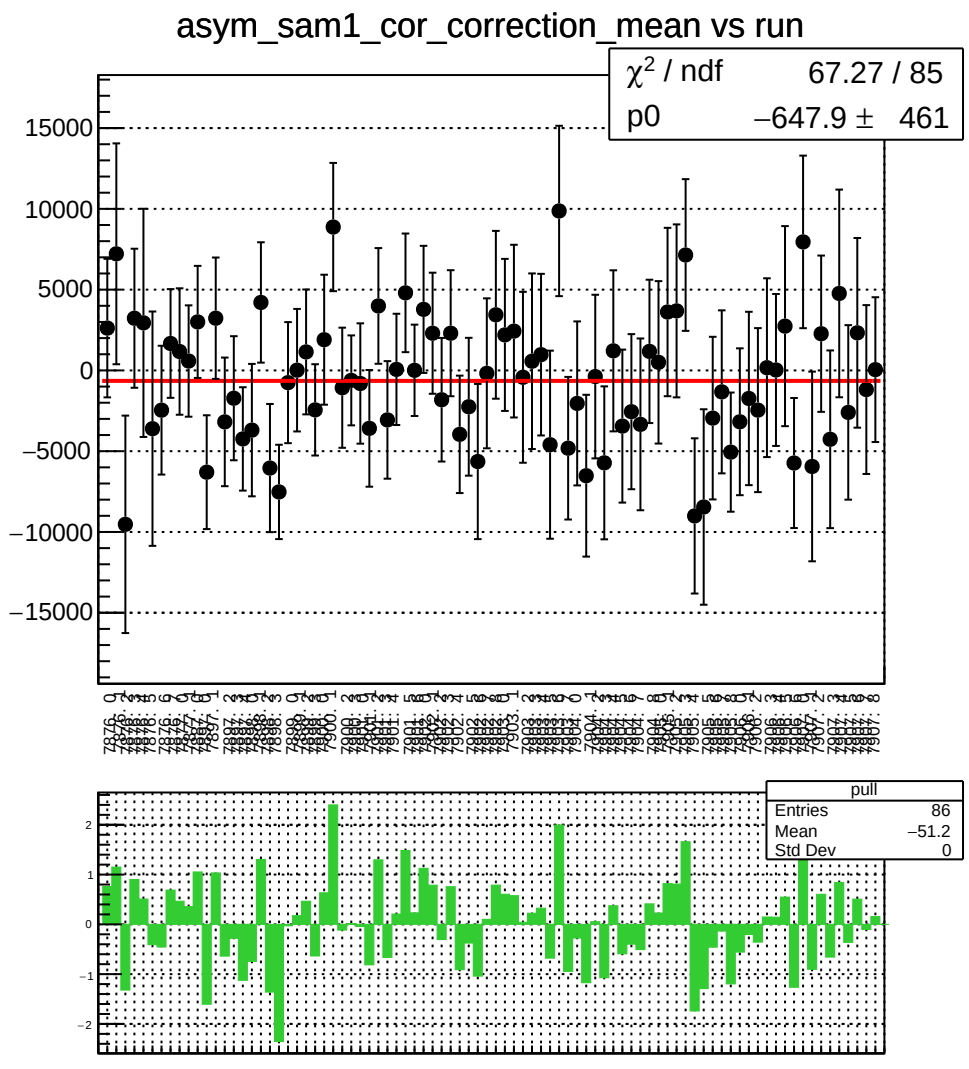

pull1D
Entries 86
Mean 0.0149
Std Dev 0.8843
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

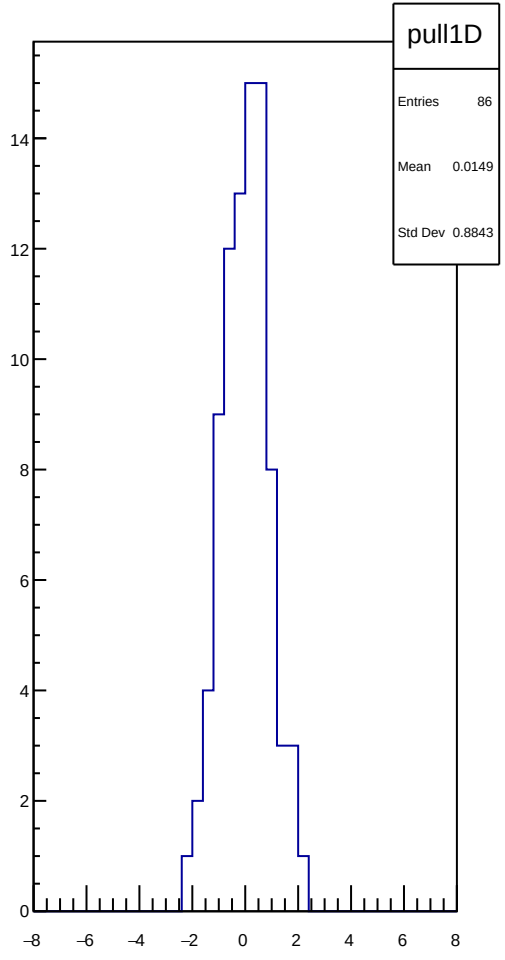

asym_sam1_reg_correction_rms vs run
χ² / ndf 5.132e+04 / 85
p0 417.1 ± 0.326
700
650
600
550
500
450
400
350
300

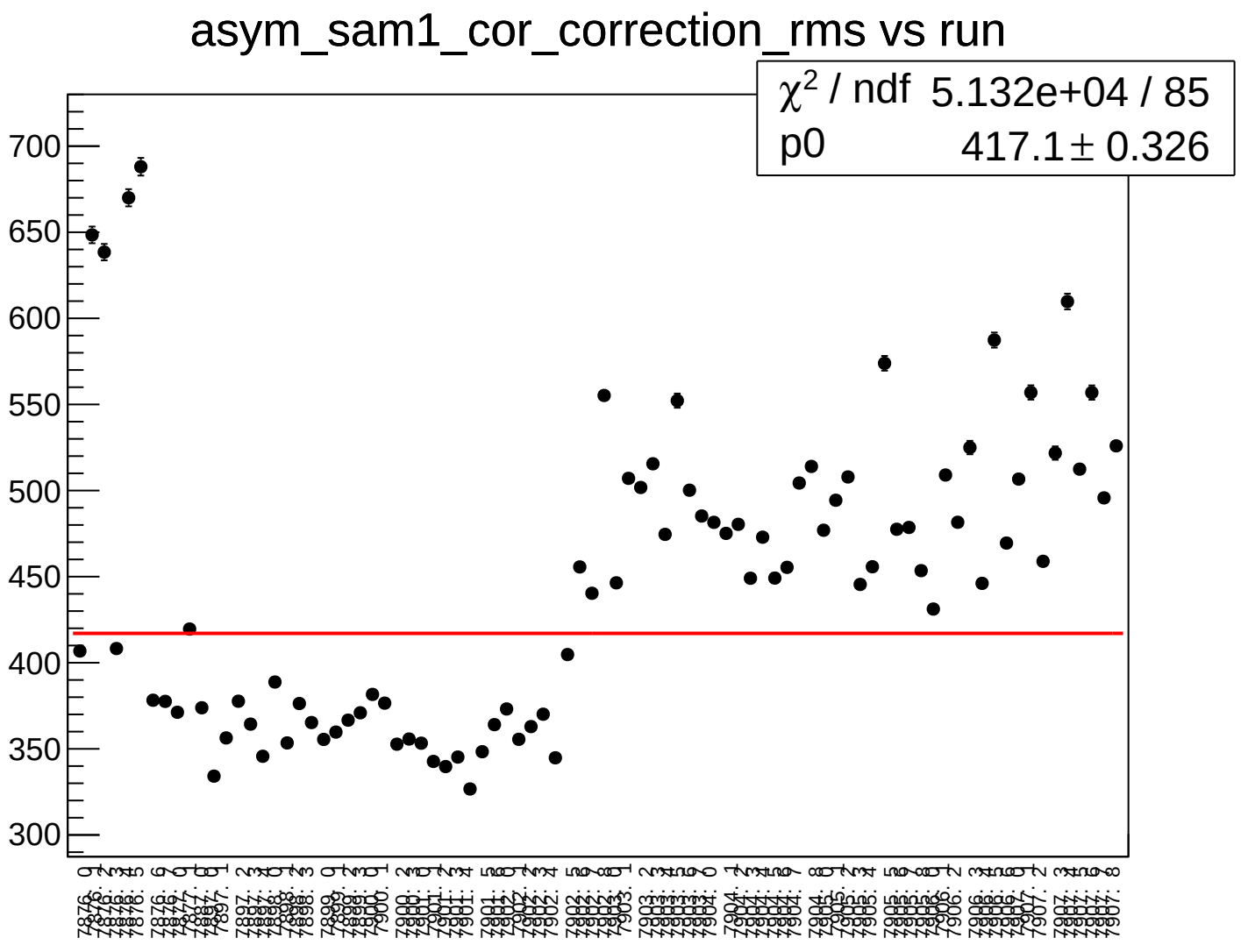

cor_asym_sam1_mean vs run
χ² / ndf 77.06 / 85
p0 −93.13 ± 78.12
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −677.4
Std Dev 0
2
1
0
−1
−2

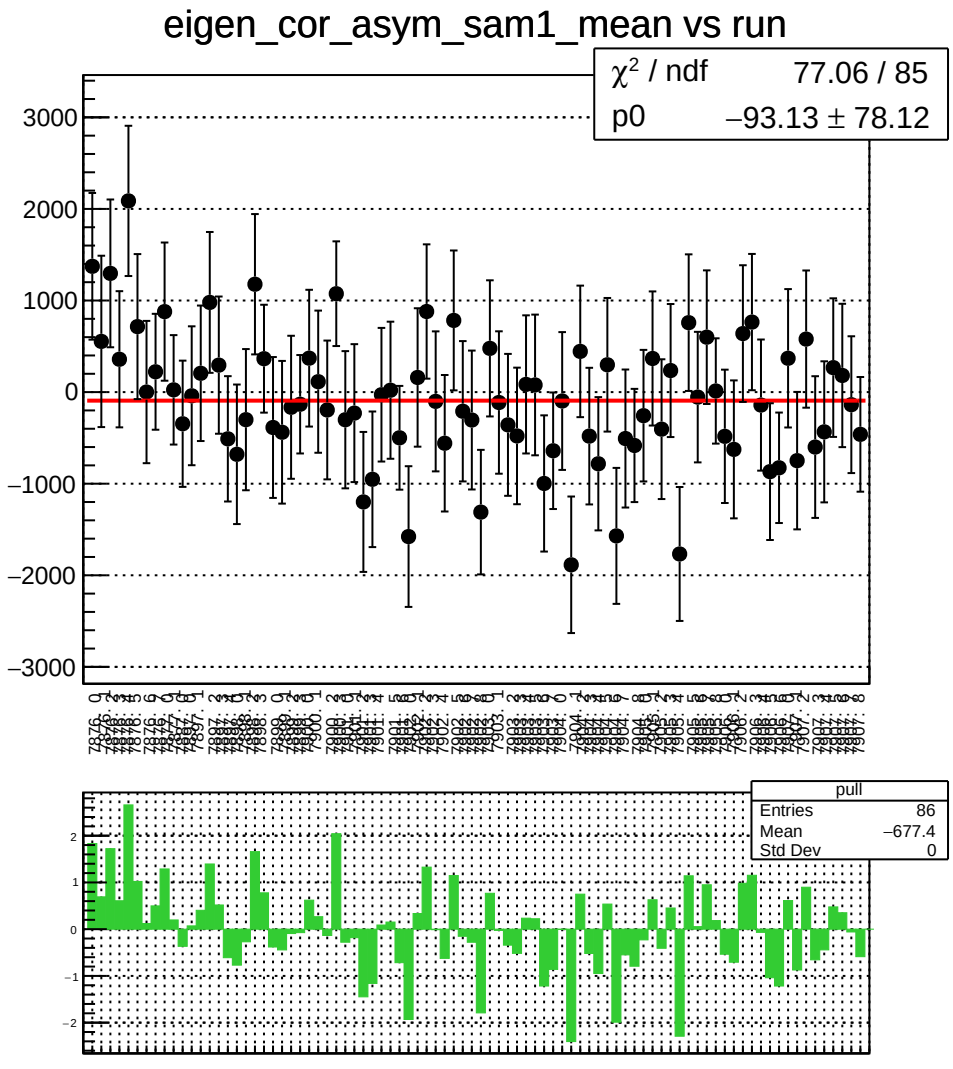

pull1D
Entries 86
Mean 0.009839
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

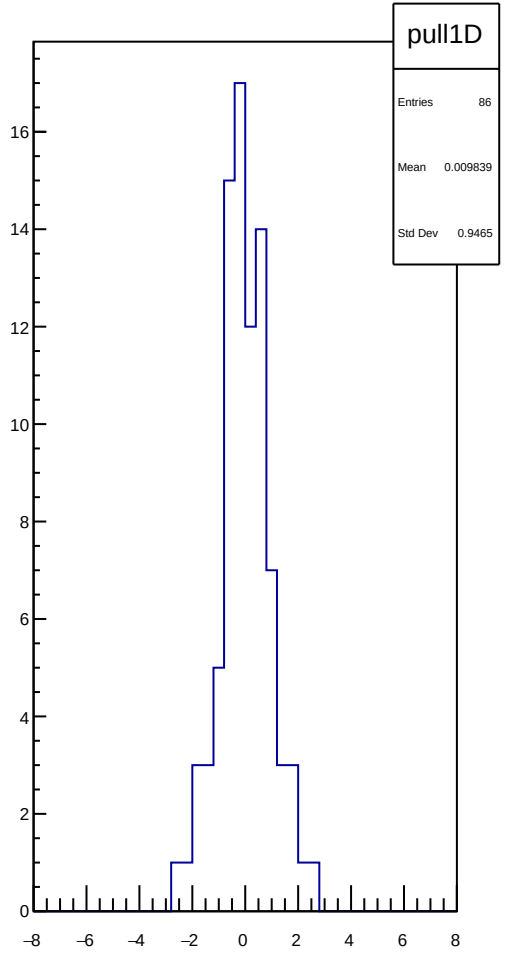

cor_asym_sam1_rms vs run
χ^2 / ndf 1776 / 85
p0 71.73 ± 0.05524
90
85
80
75
70
65

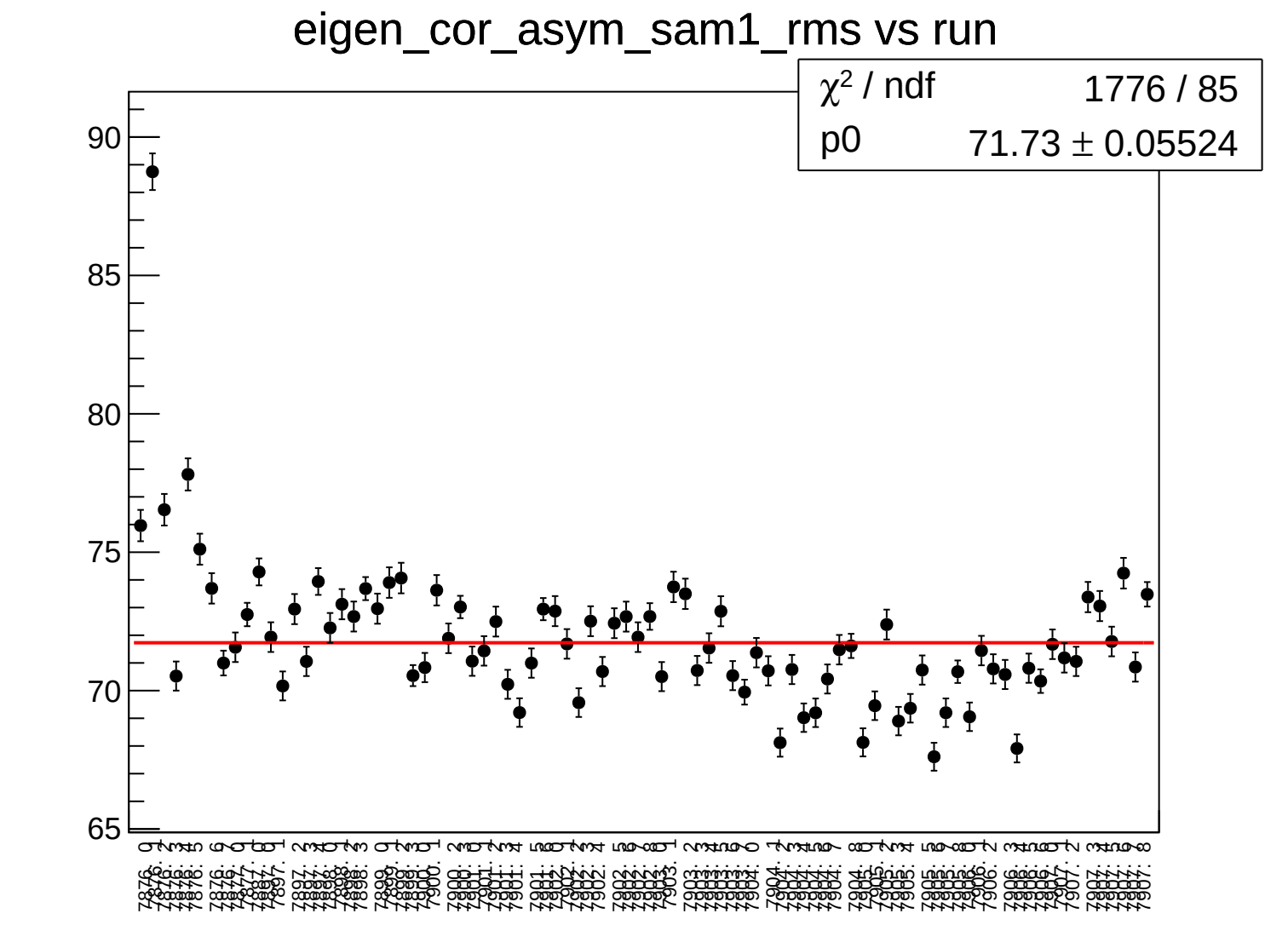

asym_sam1_cor_correction_mean vs run
χ² / ndf 67.27 / 85
p0 −647.9 ± 461
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −51.2
Std Dev 0
2
1
0
−1
−2

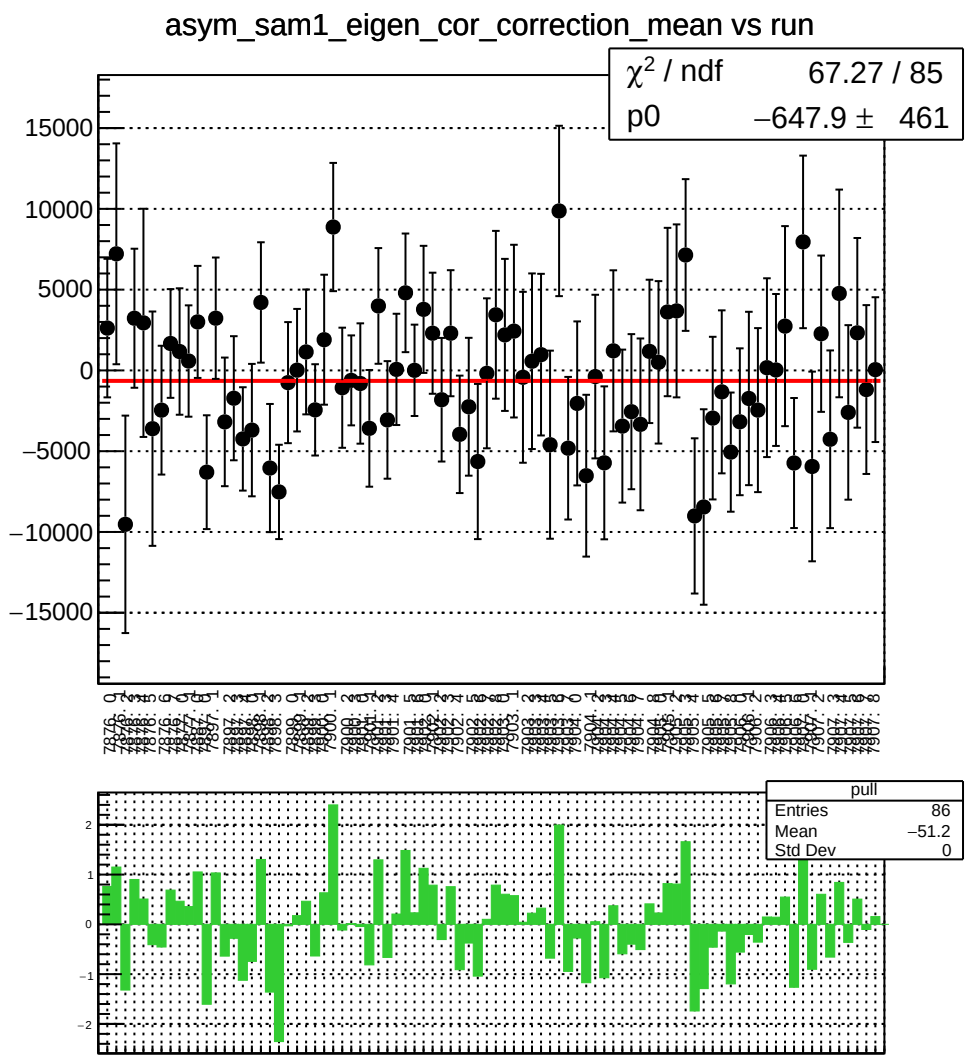

pull1D
Entries 86
Mean 0.0149
Std Dev 0.8843
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

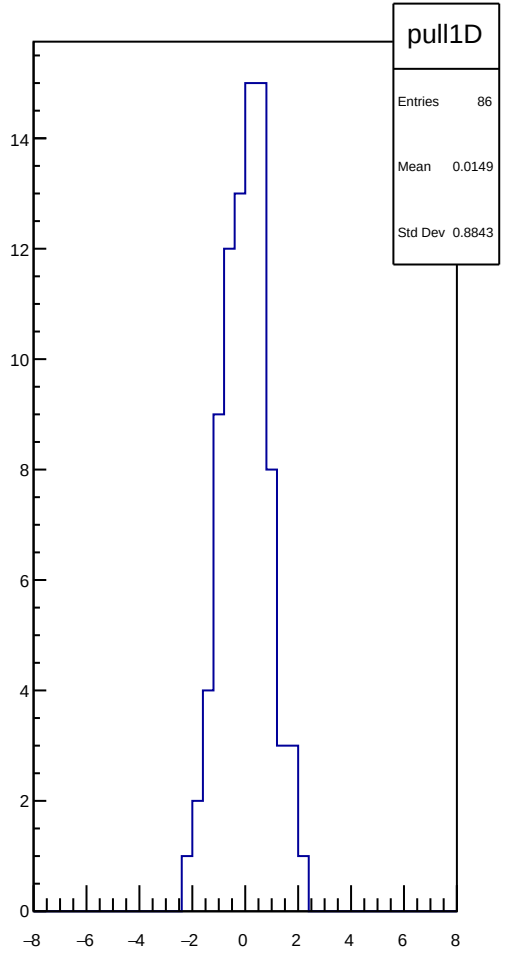

asym_sam1_cor_correction_rms vs run
χ² / ndf 5.132e+04 / 85
p0 417.1 ± 0.326
700
650
600
550
500
450
400
350
300

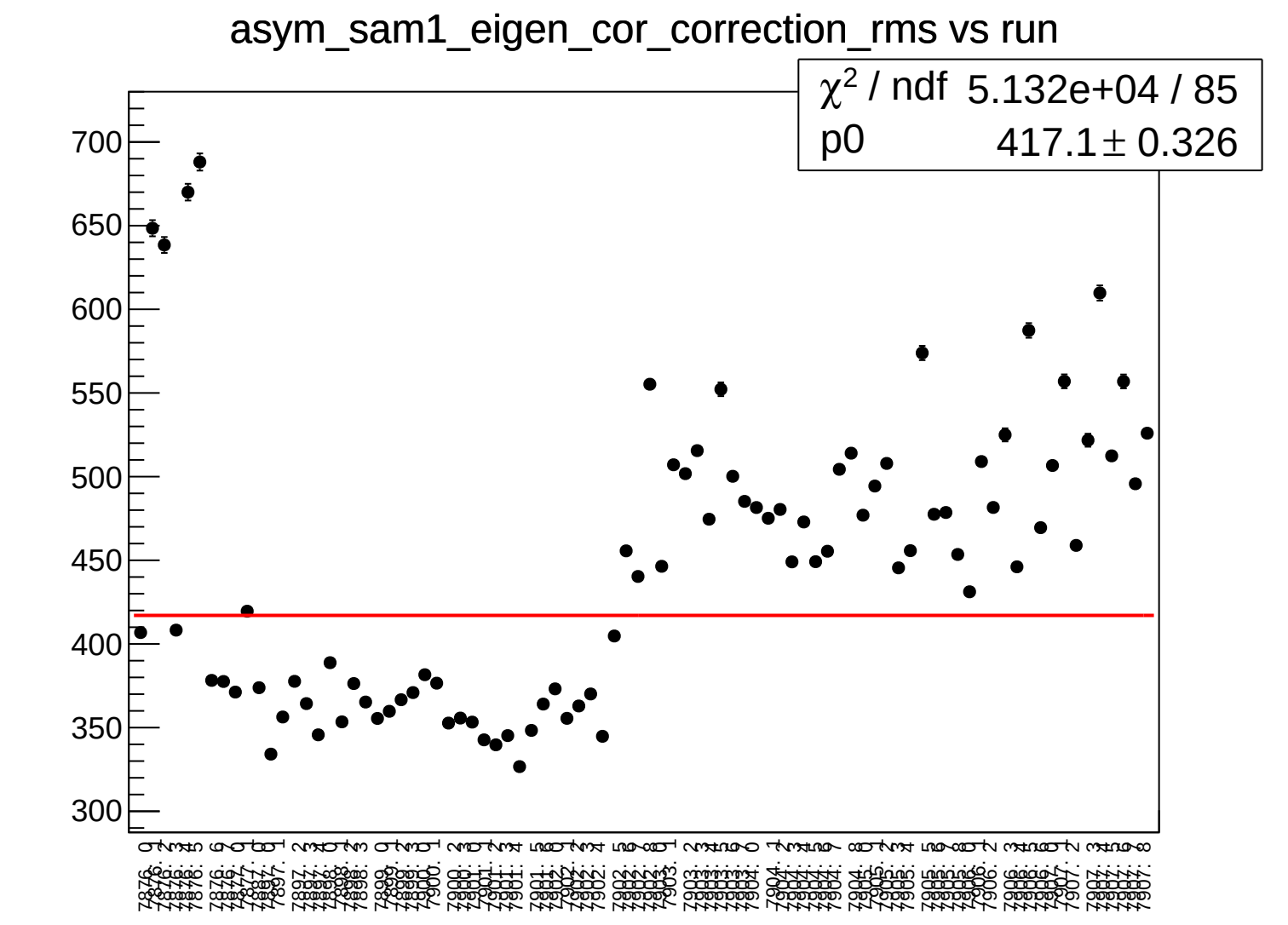

eigen_cor_asym_sam1_mean vs run
χ² / ndf 77.06 / 85
p0 −93.13 ± 78.12
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −677.4
Std Dev 0
2
1
0
−1
−2

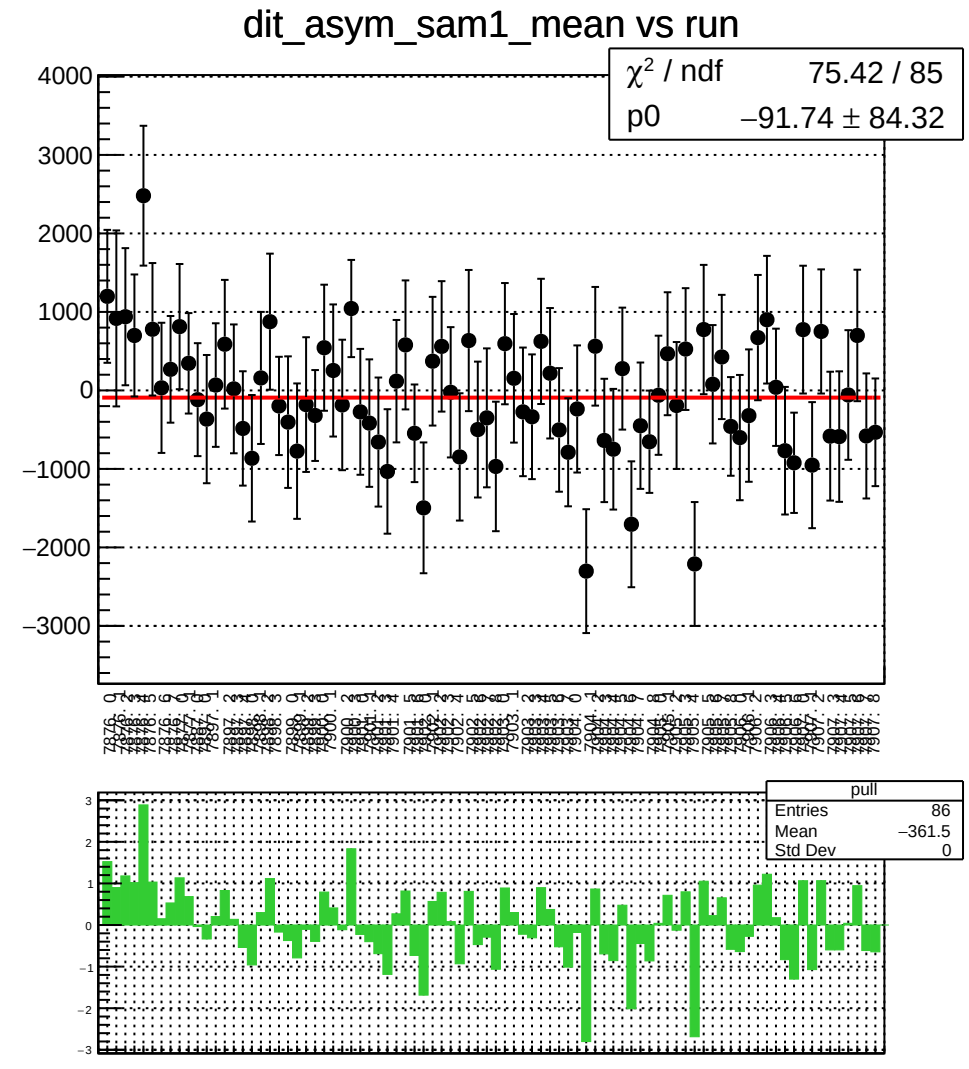

pull1D
Entries 86
Mean 0.009839
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

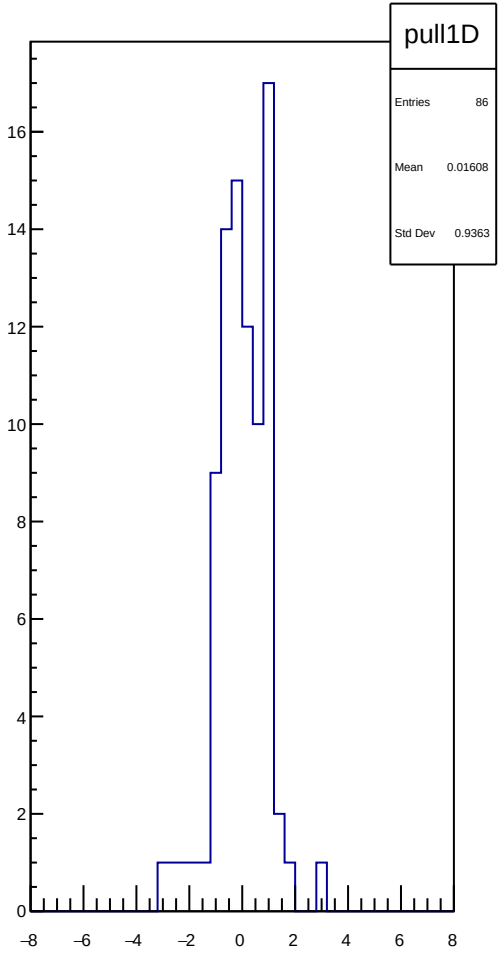

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 1776 / 85
p0 71.73 ± 0.05524
90
85
80
75
70
65

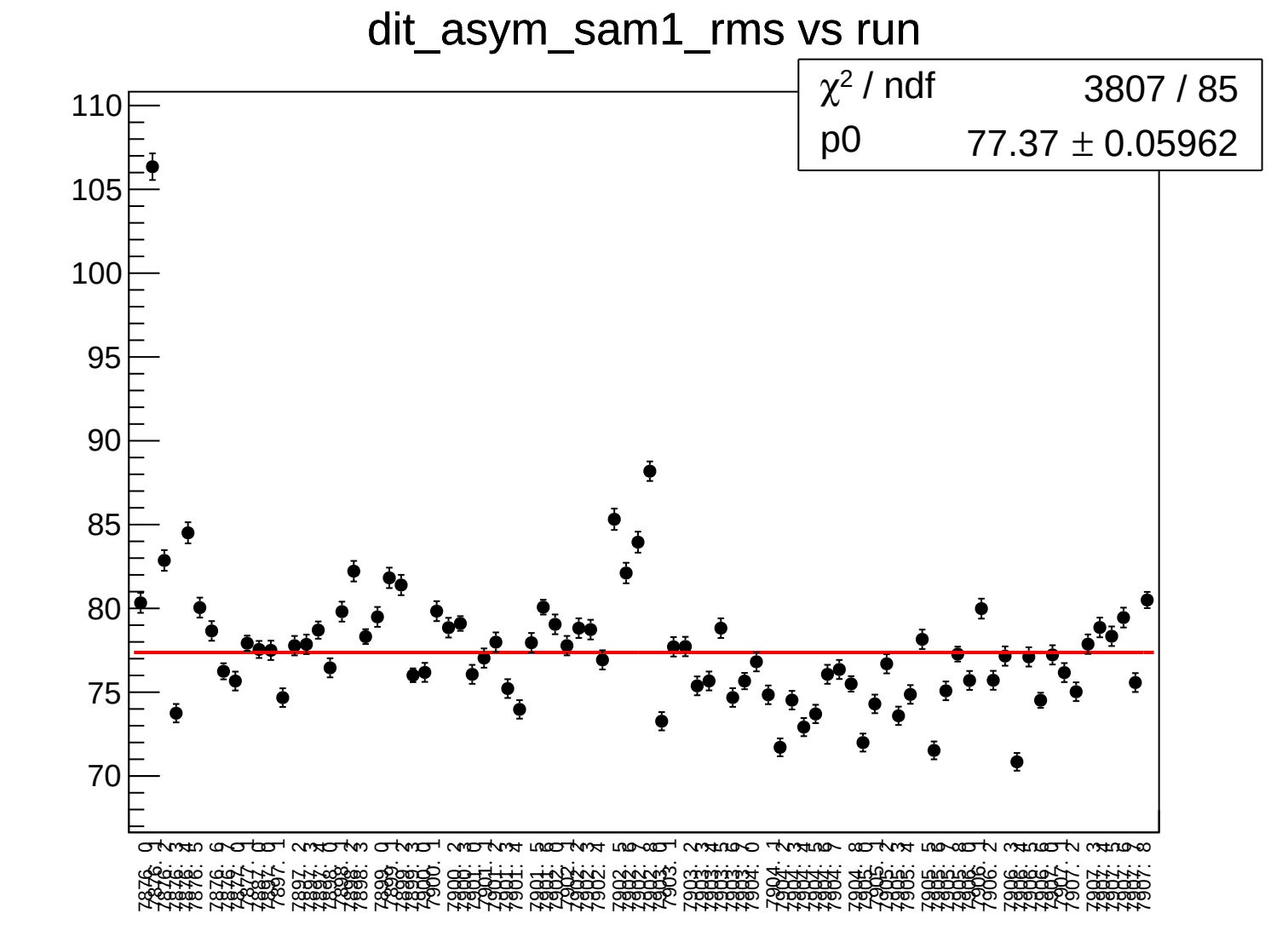

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 67.27 / 85
p0 −647.9 ± 461
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −51.2
Std Dev 0
2
1
0
−1
−2

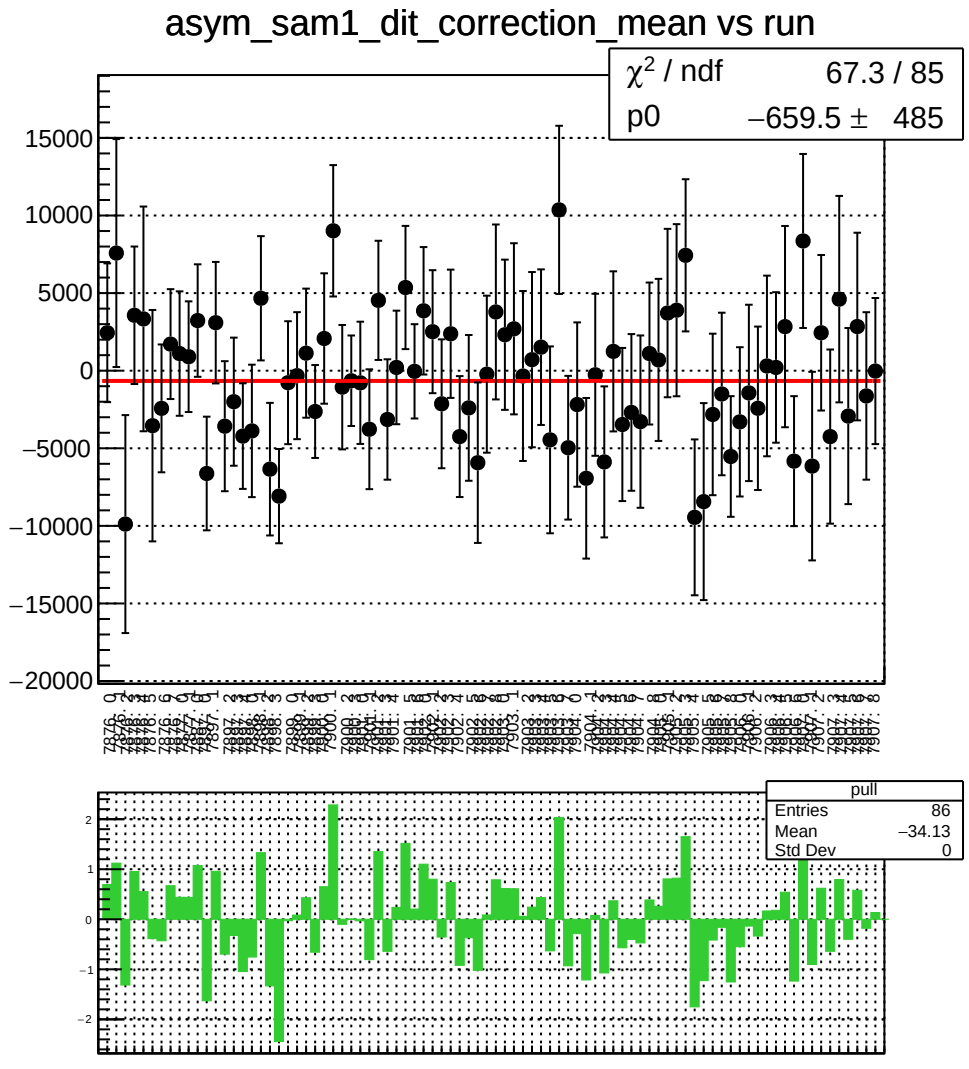

pull1D
Entries 86
Mean 0.0149
Std Dev 0.8843
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

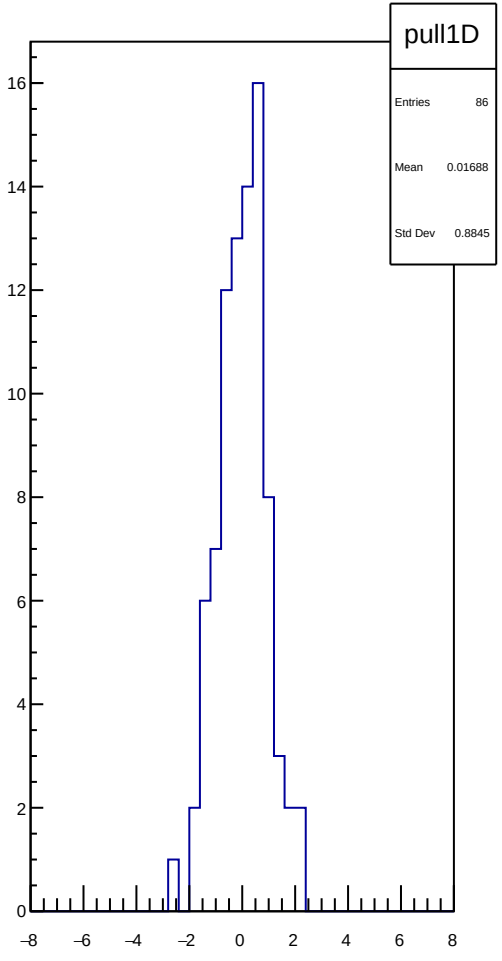

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 5.132e+04 / 85
p0 417.1 ± 0.326
700
650
600
550
500
450
400
350
300

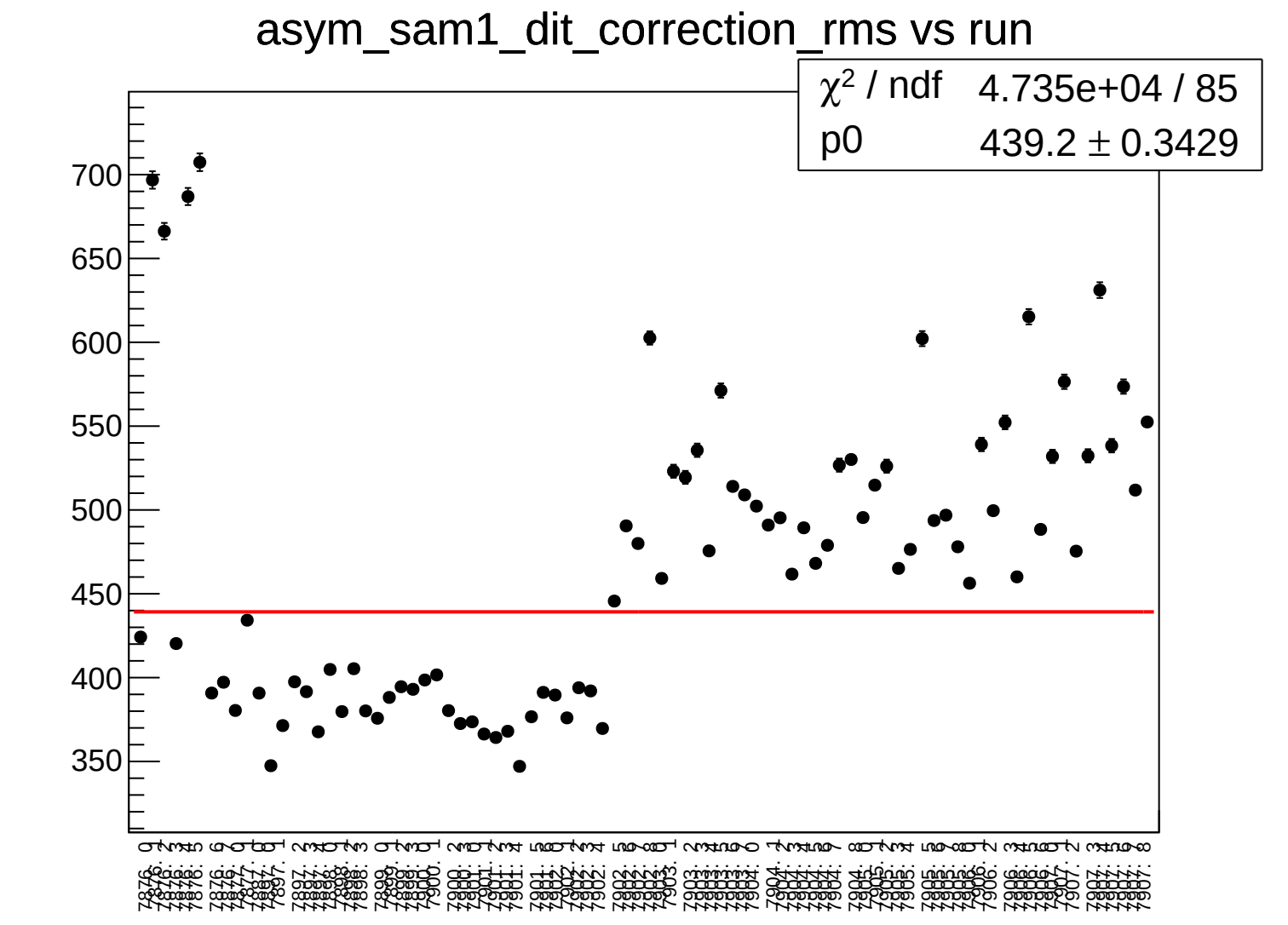

dit_asym_sam1_mean vs run
χ² / ndf 75.42 / 85
p0 −91.74 ± 84.32
pull
Entries 86
Mean −361.5
Std Dev 0

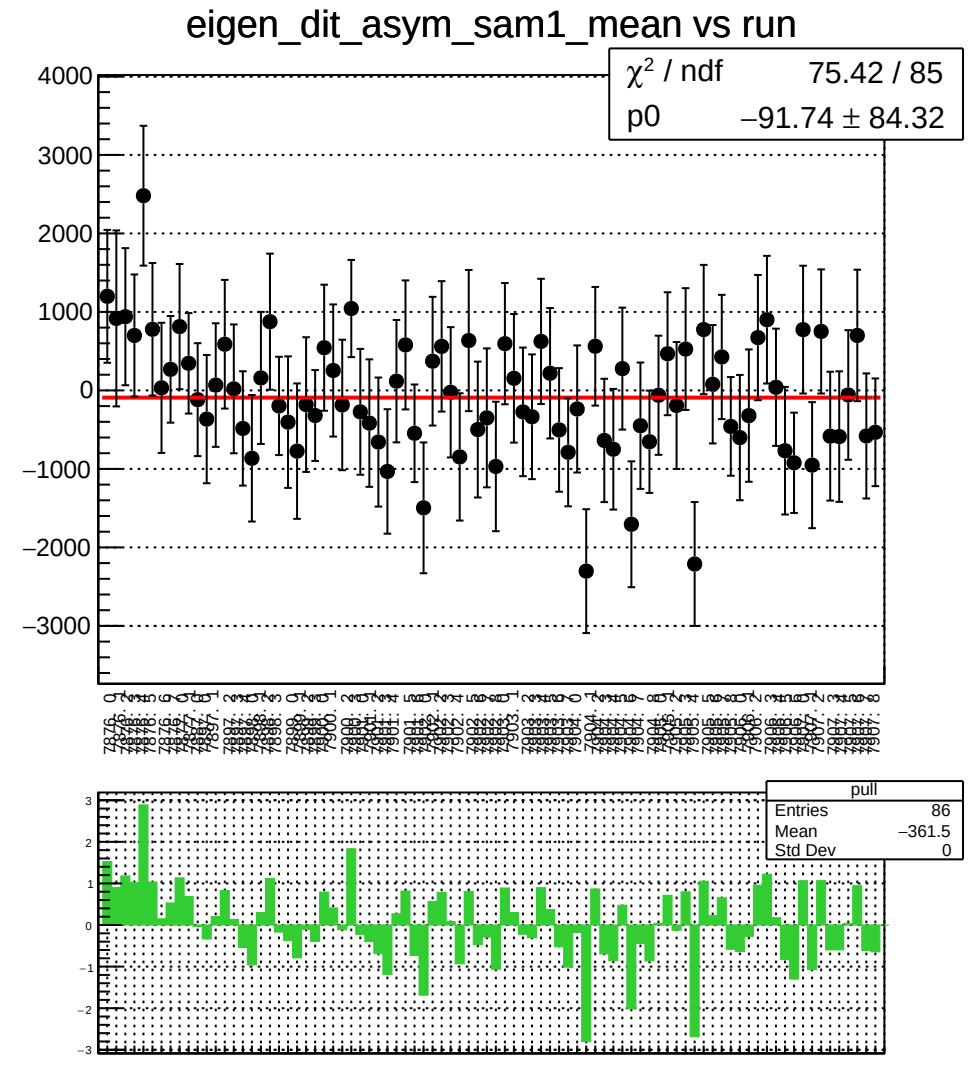

pull1D
Entries 86
Mean 0.01608
Std Dev 0.9363

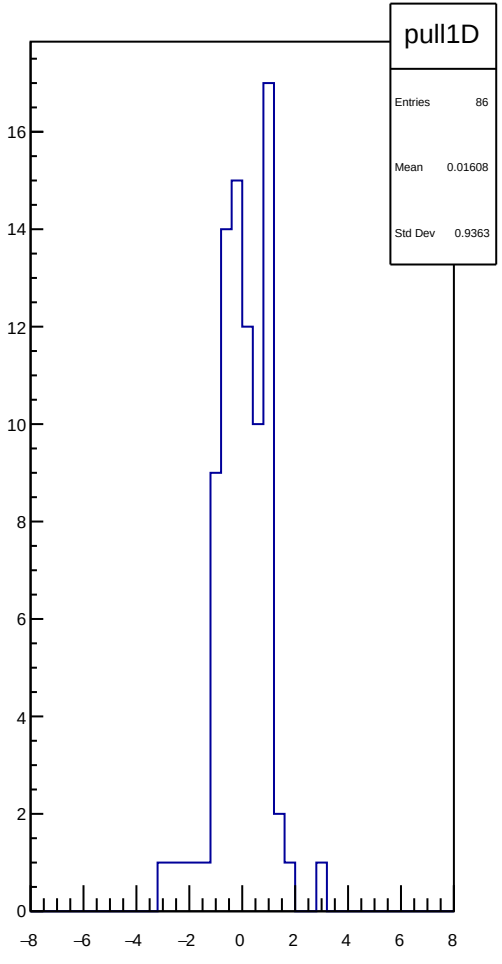

dit_asym_sam1_rms vs run
χ^2 / ndf 3807 / 85
p0 77.37 ± 0.05962
110
105
100
95
90
85
80
75
70

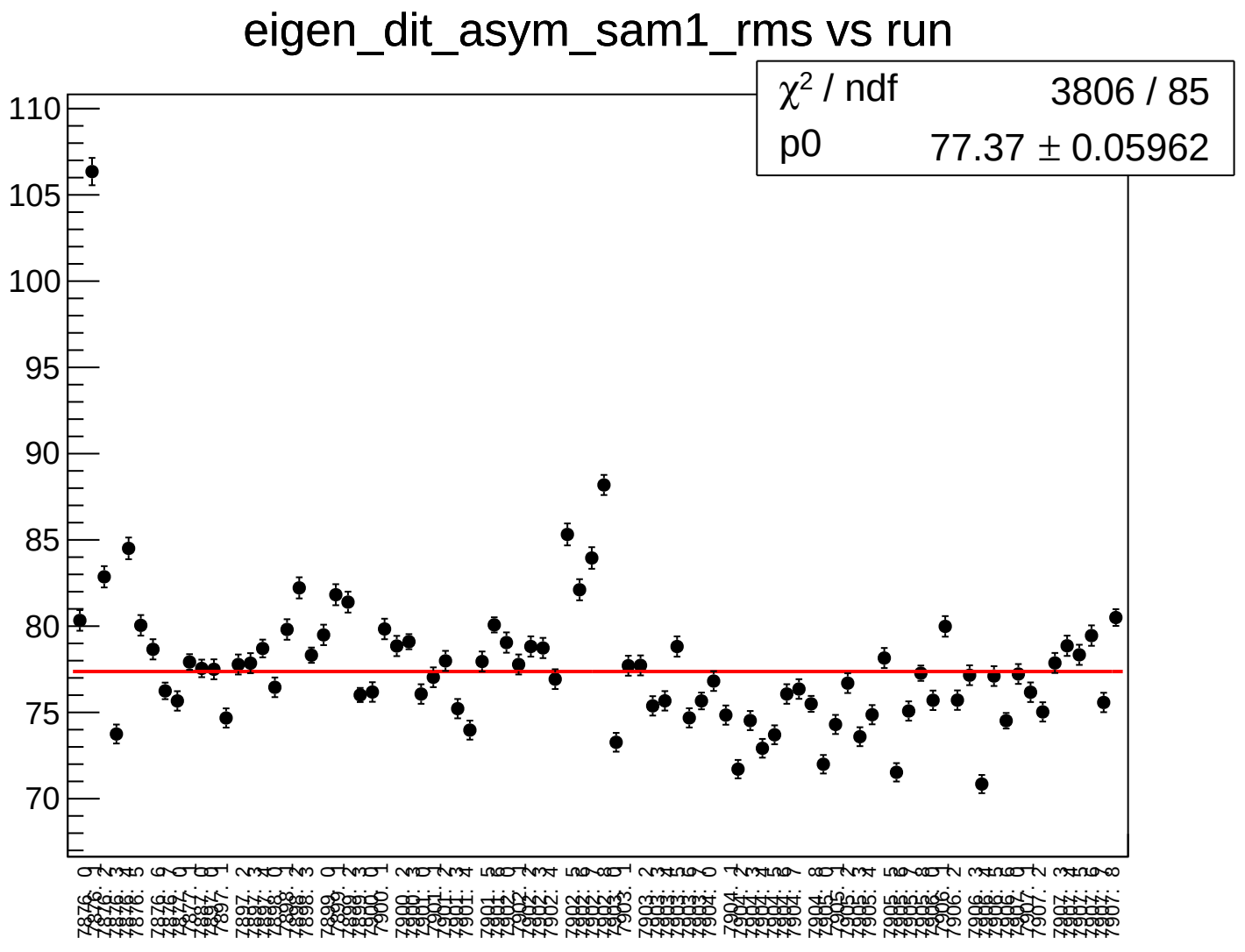

asym_sam1_dit_correction_mean vs run
χ² / ndf 67.3 / 85
p0 −659.5 ± 485
pull
Entries 86
Mean −34.13
Std Dev 0

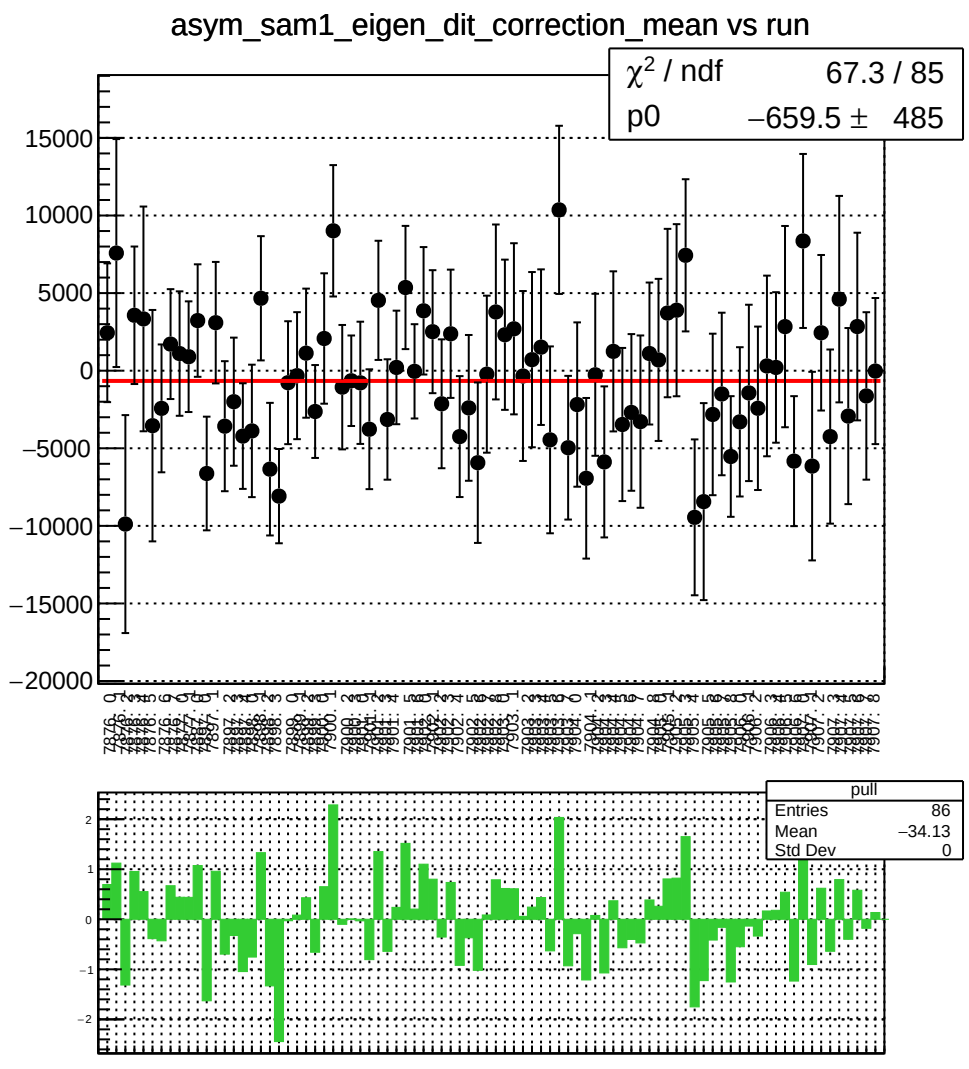

pull1D
Entries 86
Mean 0.01688
Std Dev 0.8845

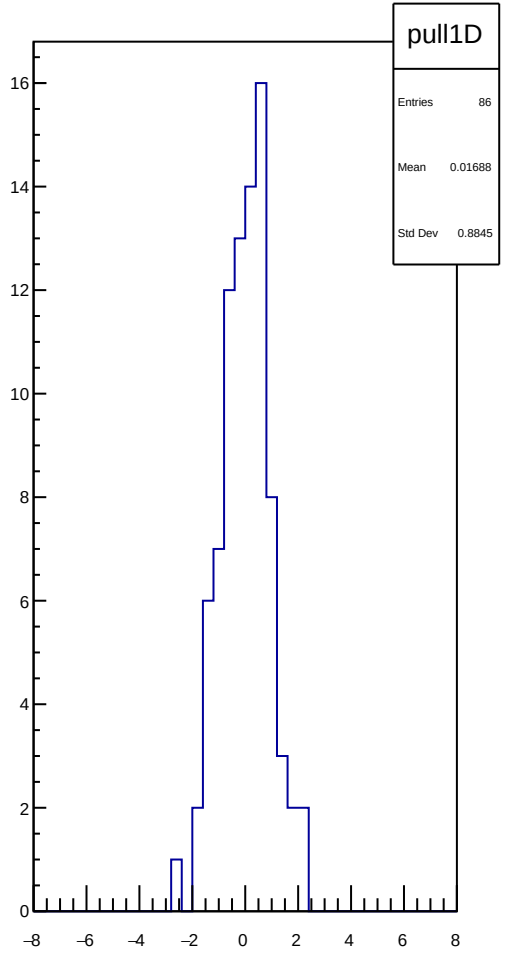

asym_sam1_dit_correction_rms vs run
χ² / ndf 4.735e+04 / 85
p0 439.2 ± 0.3429
700
650
600
550
500
450
400
350

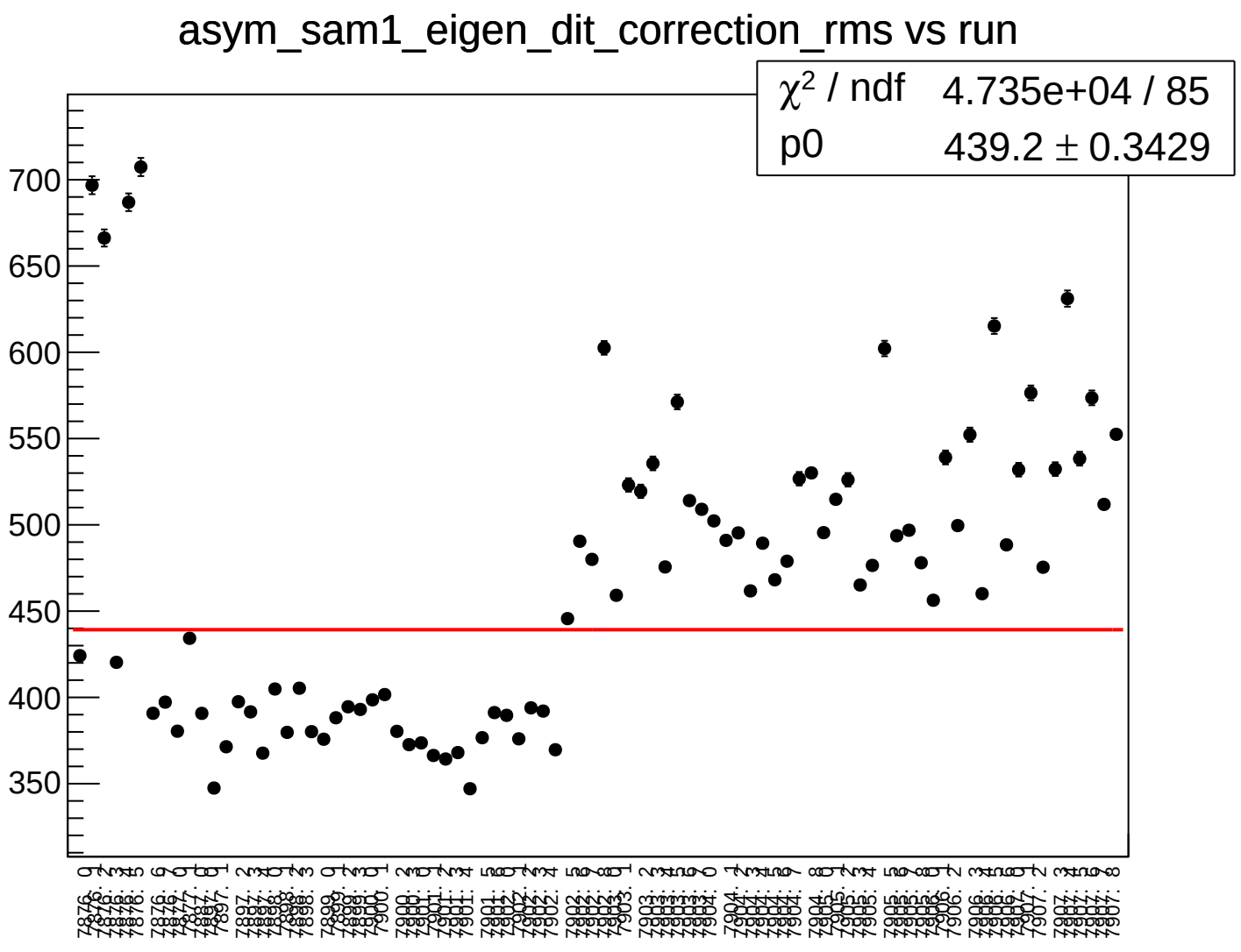

eigen_dit_asym_sam1_mean vs run
χ² / ndf 75.42 / 85
p0 −91.74 ± 84.32
pull
Entries 86
Mean −361.5
Std Dev 0

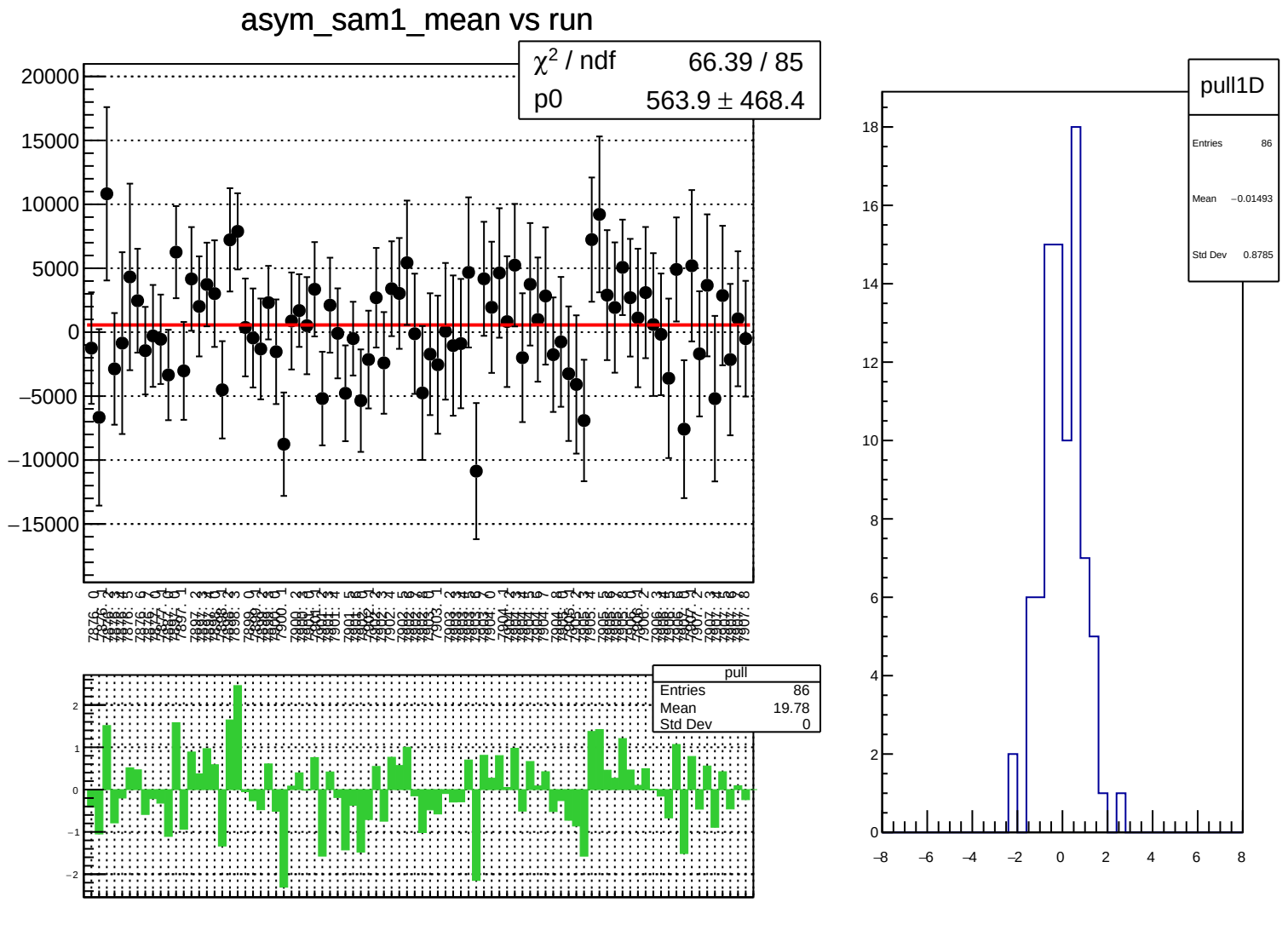

pull1D
Entries 86
Mean 0.01608
Std Dev 0.9363

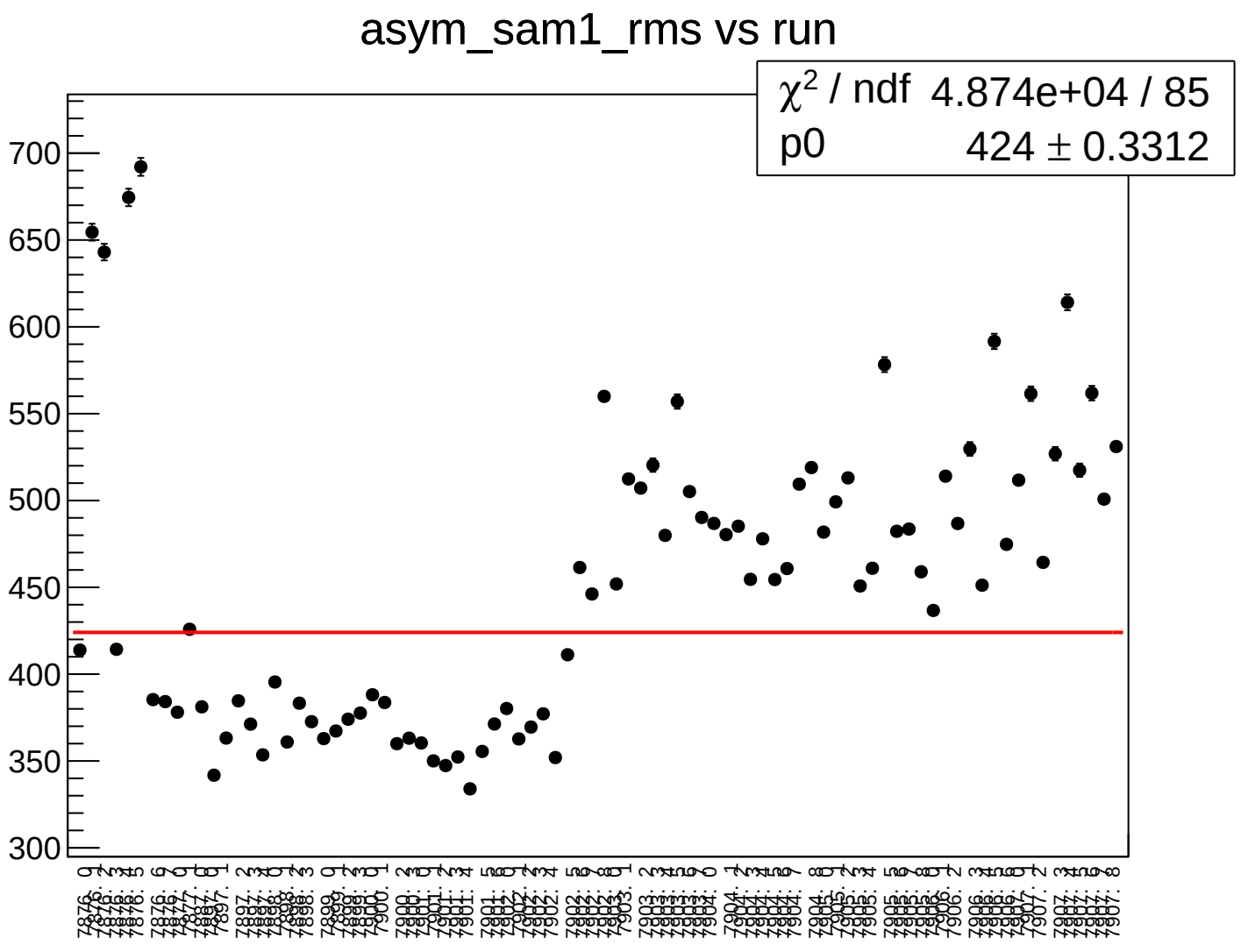

eigen_dit_asym_sam1_rms vs run
χ² / ndf 3806 / 85
p0 77.37 ± 0.05962
110
105
100
95
90
85
80
75
70

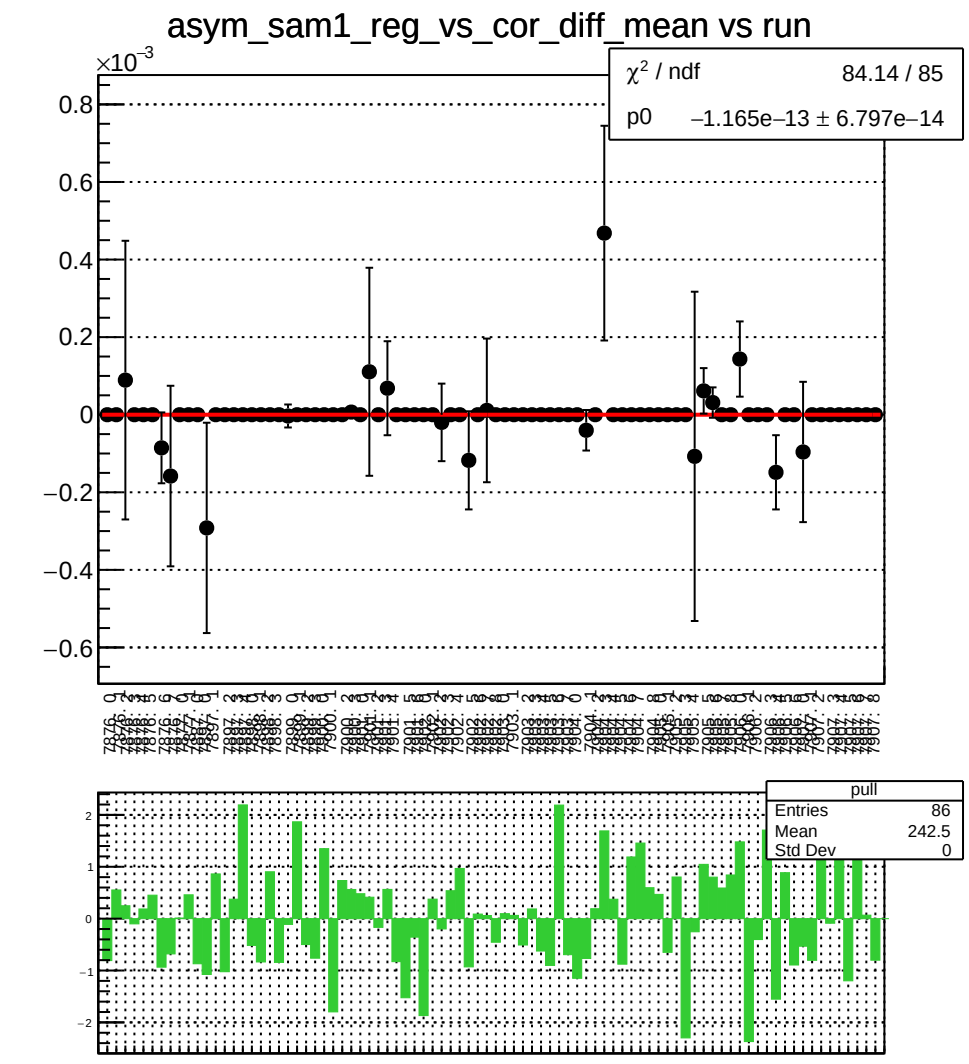

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 67.3 / 85
p0 −659.5 ± 485
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −34.13
Std Dev 0
2
1
0
−1
−2

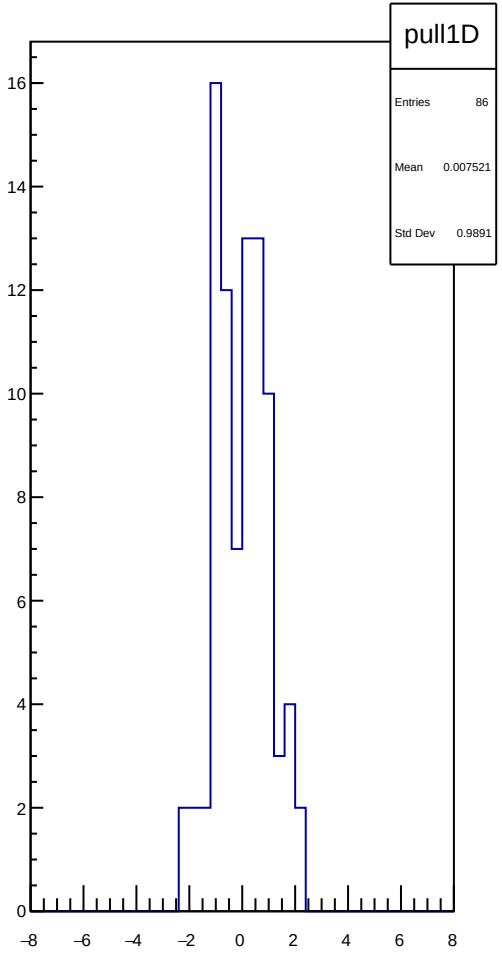

pull1D
Entries 86
Mean 0.01688
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

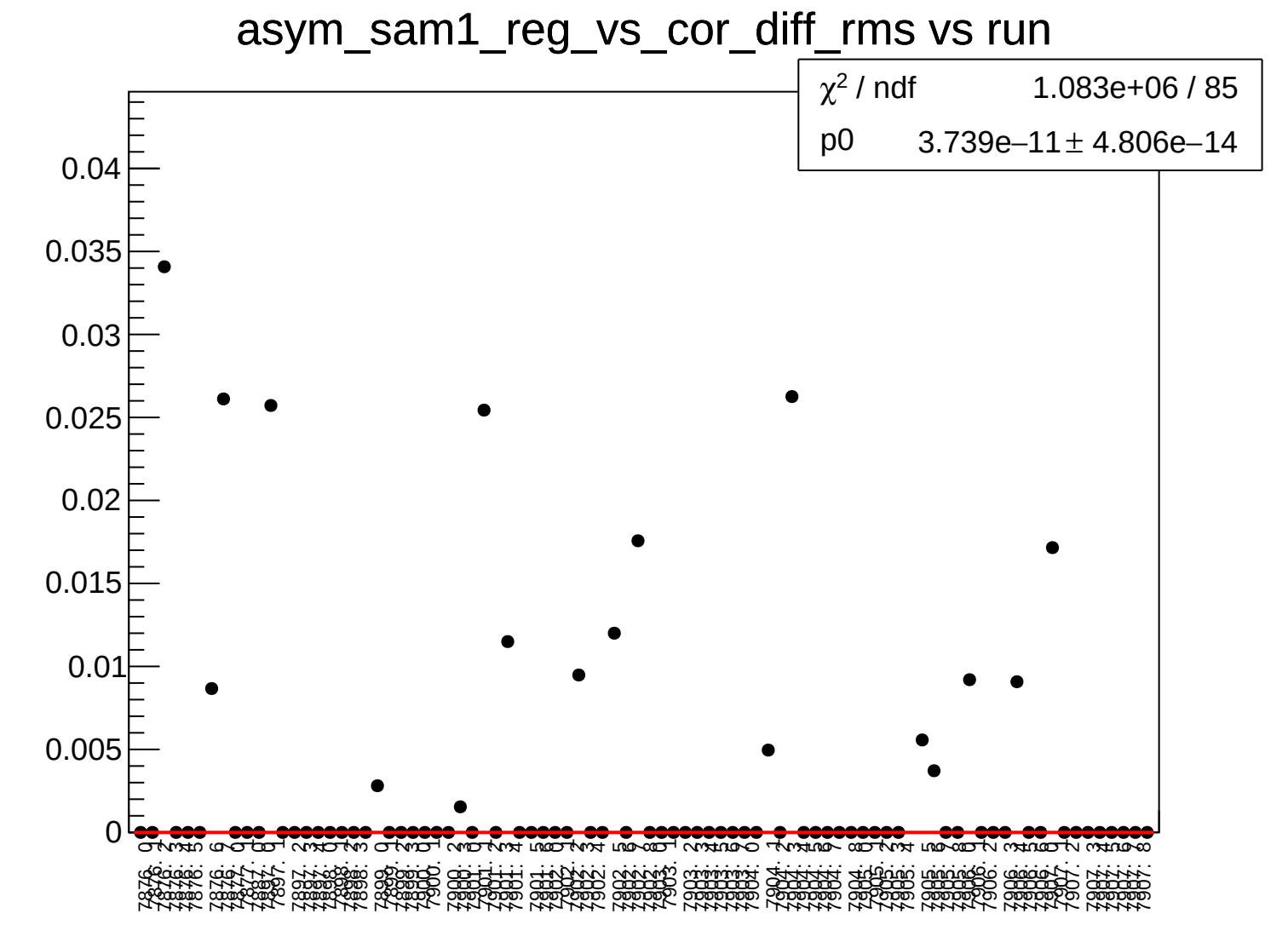

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 4.735e+04 / 85
p0 439.2 ± 0.3429
700
650
600
550
500
450
400
350

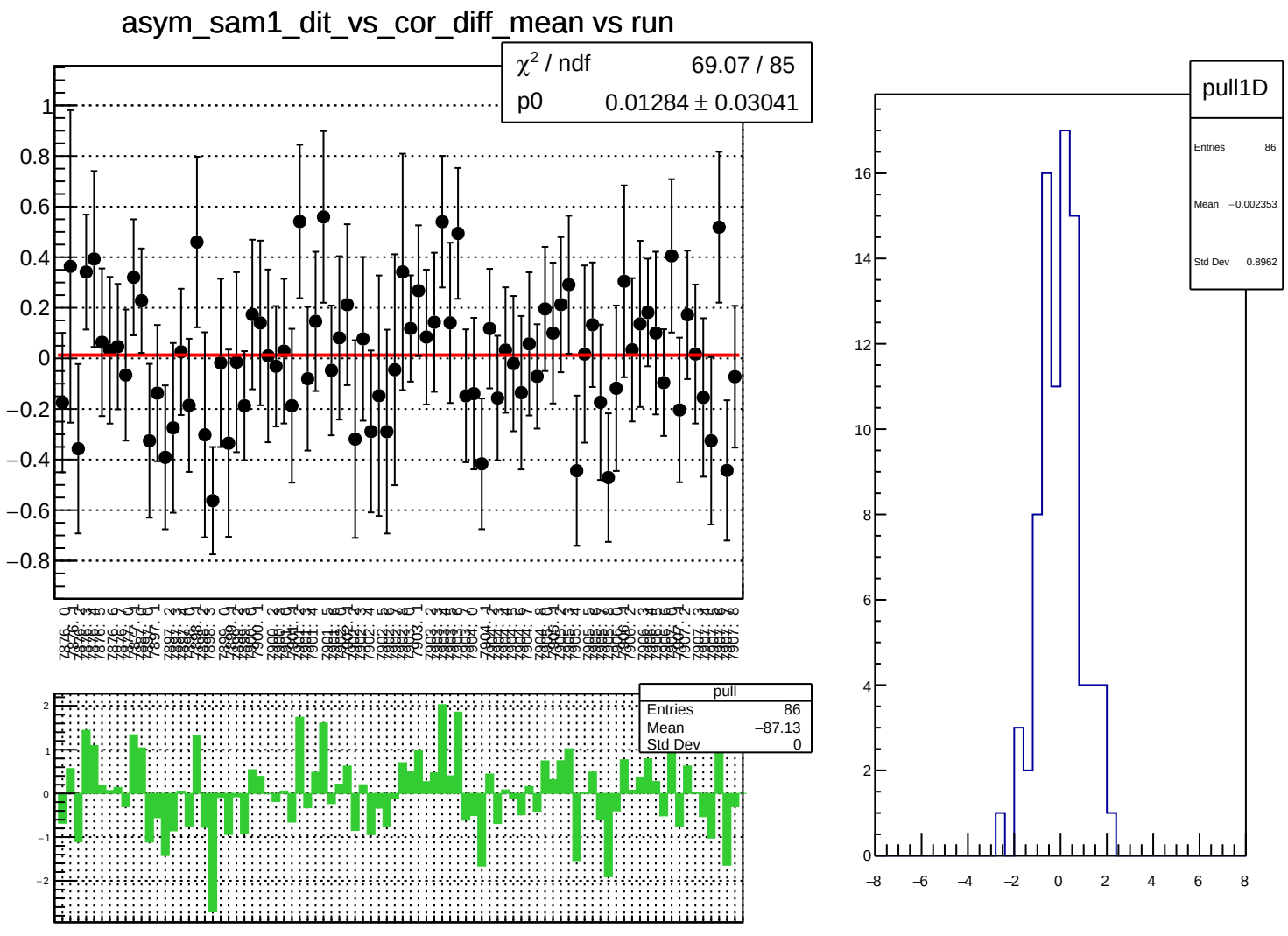

asym_sam1_mean vs run
χ^2 / ndf 66.39 / 85
p0 563.9 ± 468.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 19.78
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01493
Std Dev 0.8785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

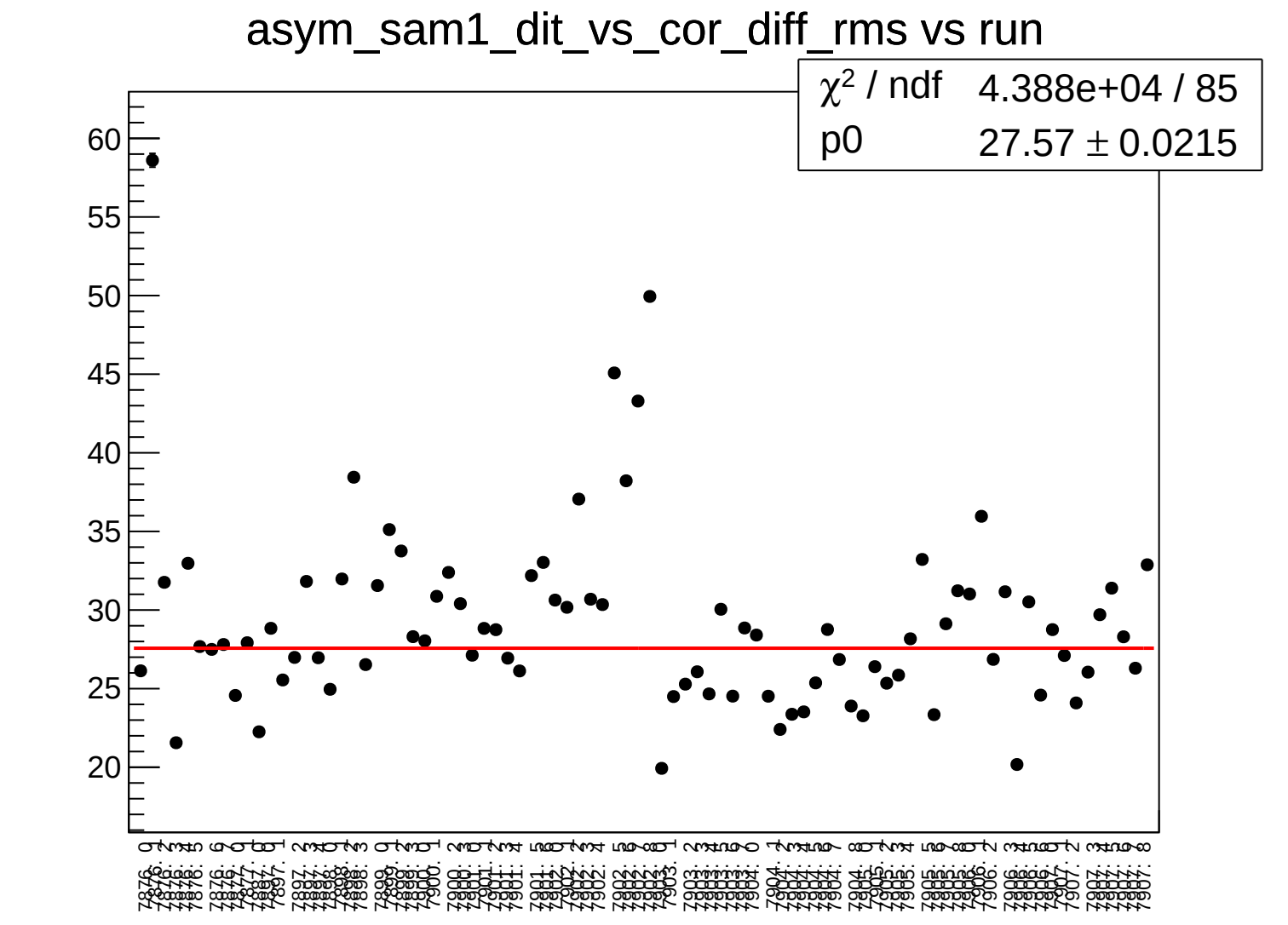

asym_sam1_rms vs run
χ² / ndf 4.874e+04 / 85
p0 424 ± 0.3312
700
650
600
550
500
450
400
350
300

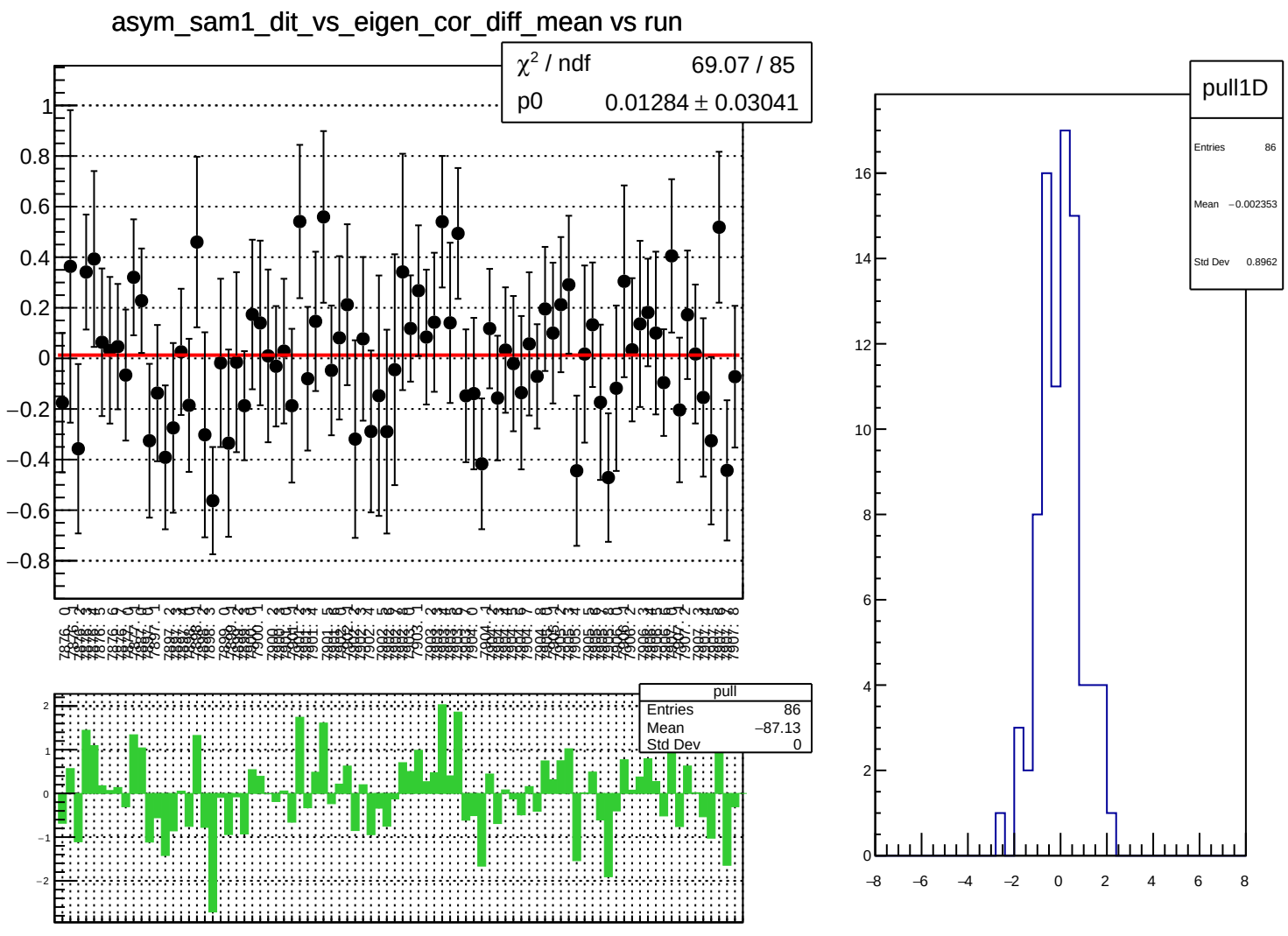

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 84.14 / 85
p0 −1.165e−13 ± 6.797e−14
pull
Entries 86
Mean 242.5
Std Dev 0

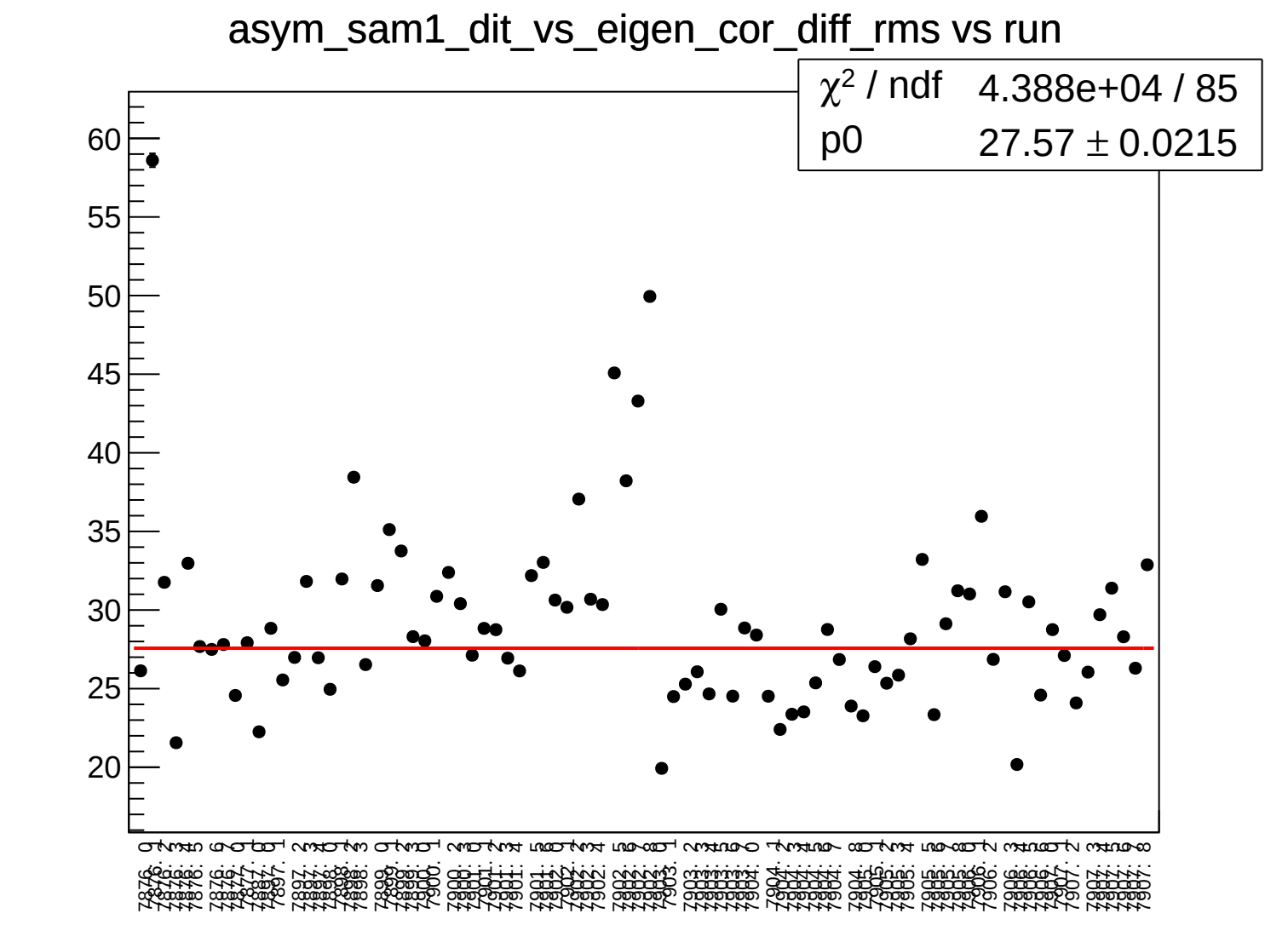

pull1D
Entries 86
Mean 0.007521
Std Dev 0.9891

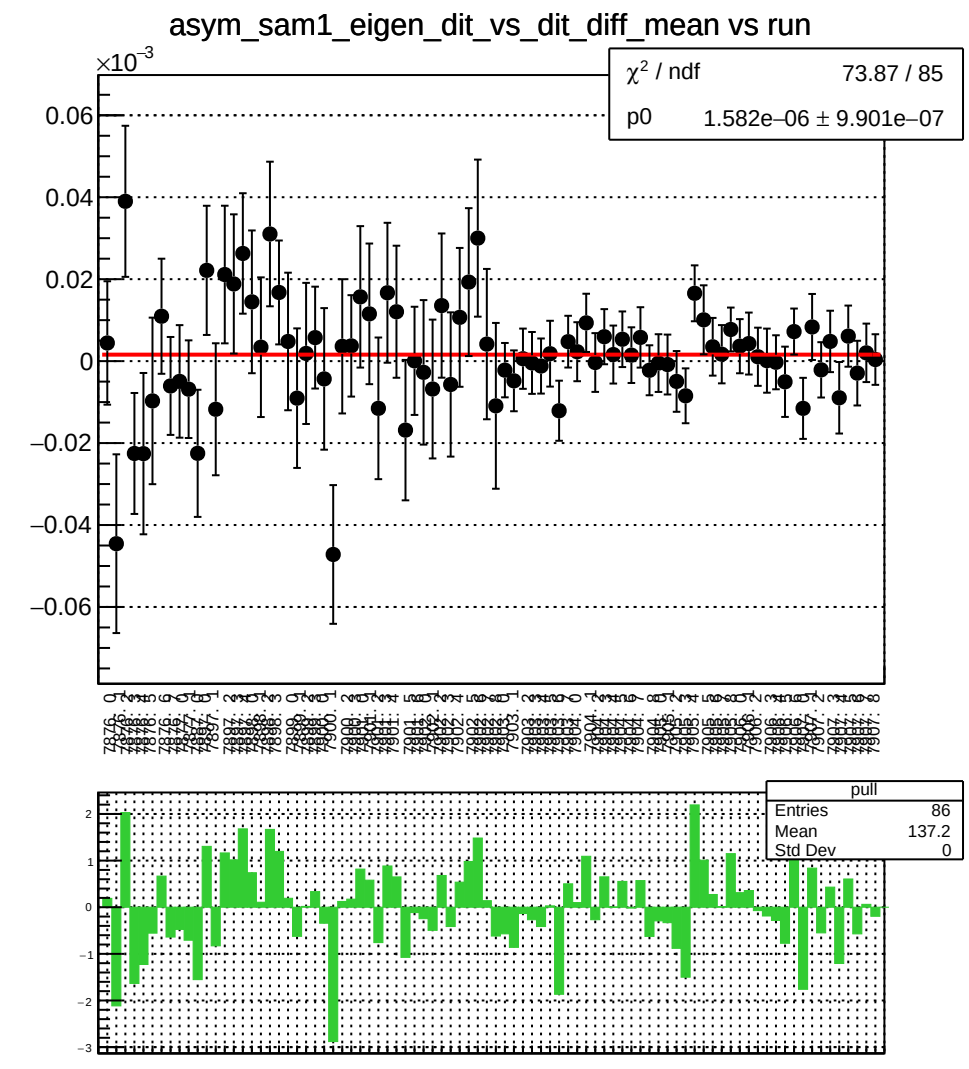

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.083e+06 / 85
p0 3.739e−11 ± 4.806e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

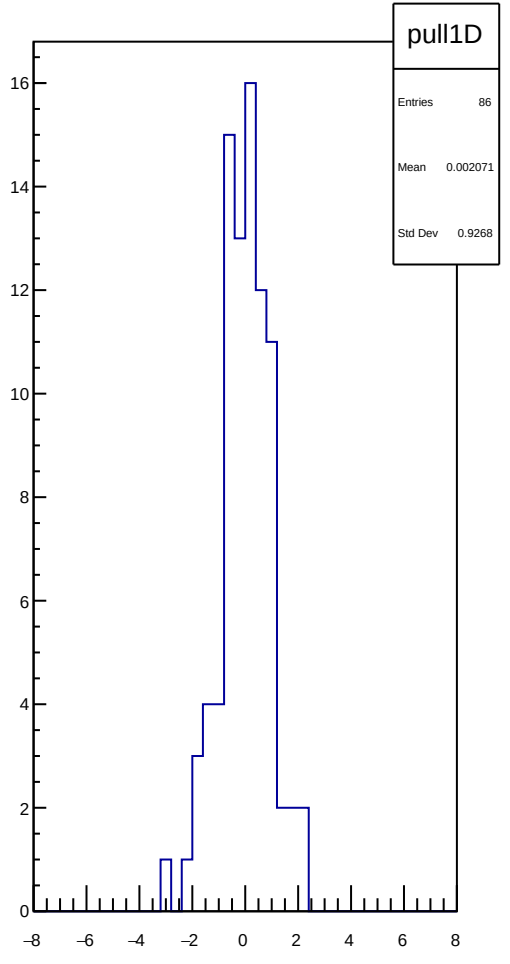

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 69.07 / 85
p0 0.01284 ± 0.03041
pull
Entries 86
Mean −87.13
Std Dev 0
pull1D
Entries 86
Mean −0.002353
Std Dev 0.8962

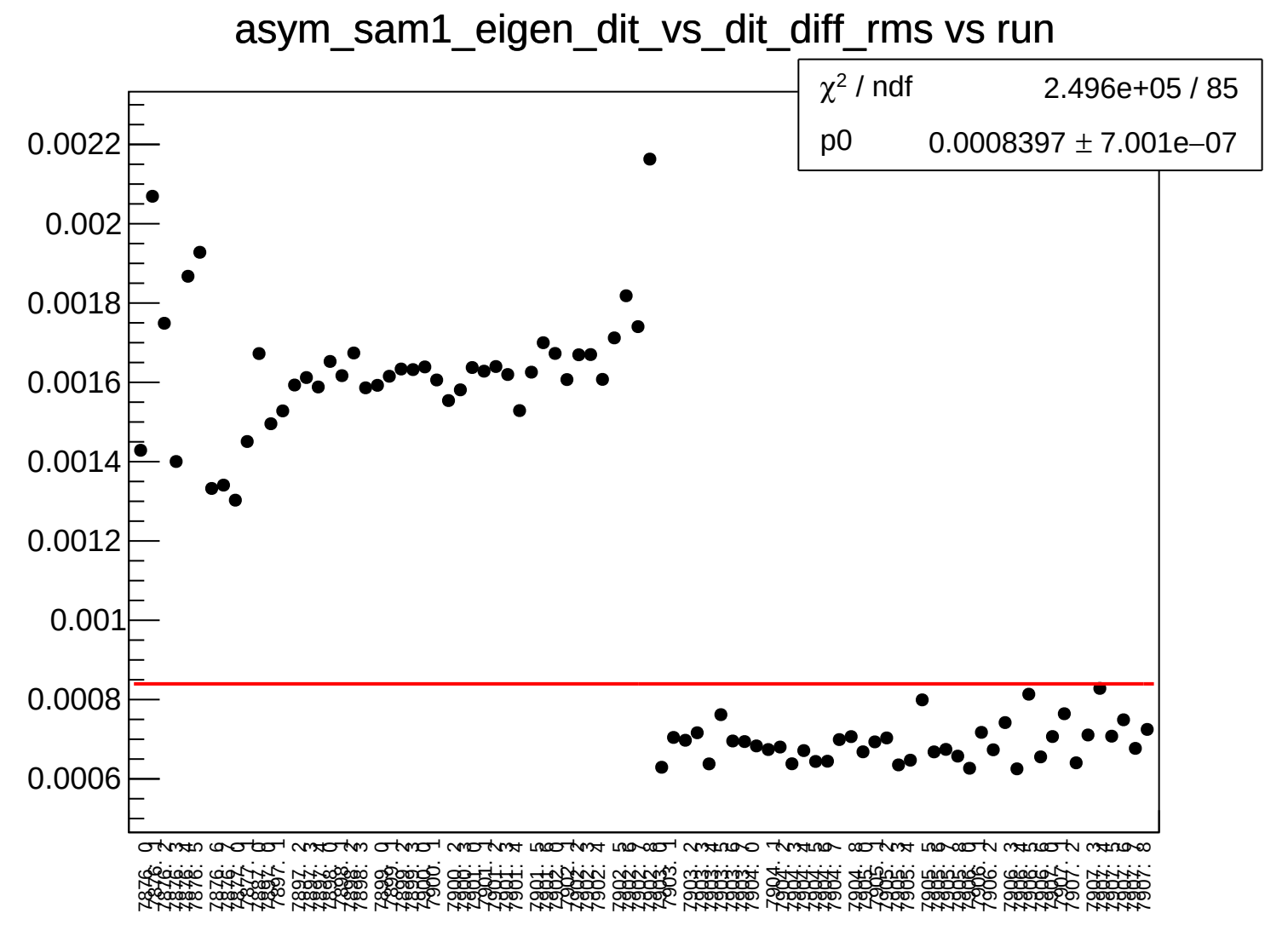

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.388e+04 / 85
p0 27.57 ± 0.0215
60
55
50
45
40
35
30
25
20

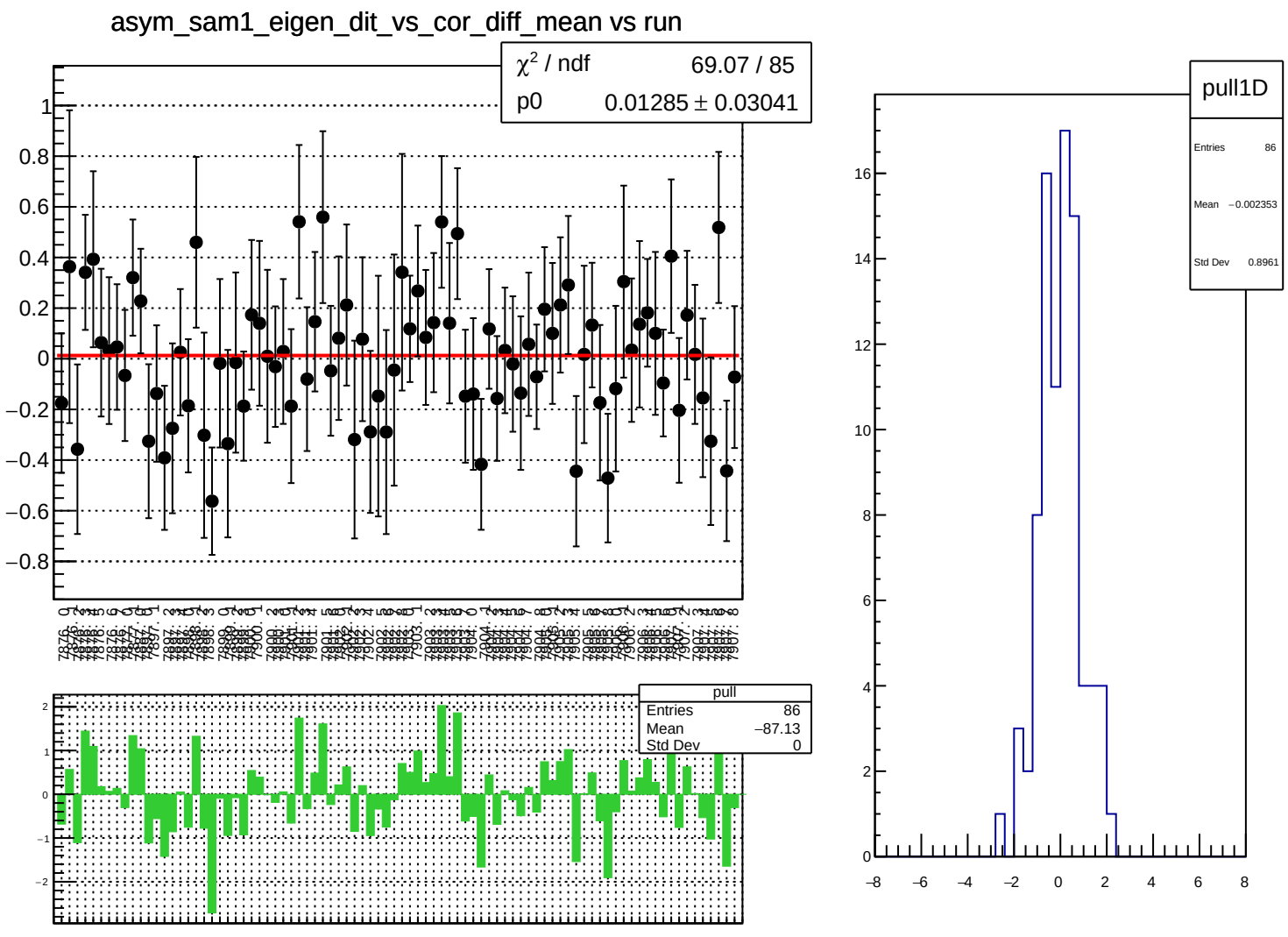

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.07 / 85
p0 0.01284 ± 0.03041
pull
Entries 86
Mean −87.13
Std Dev 0
pull1D
Entries 86
Mean −0.002353
Std Dev 0.8962

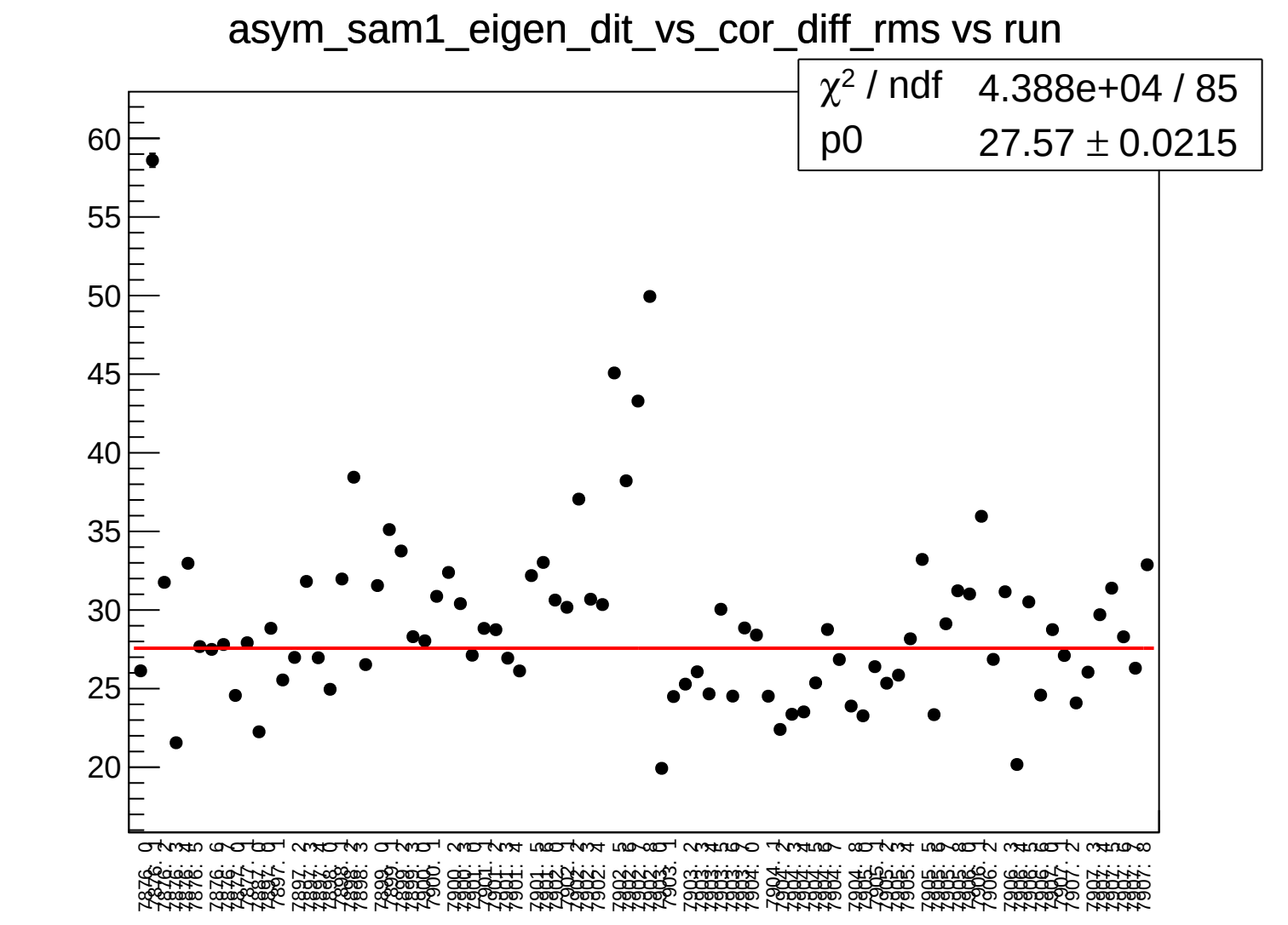

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.388e+04 / 85
p0 27.57 ± 0.0215
60
55
50
45
40
35
30
25
20

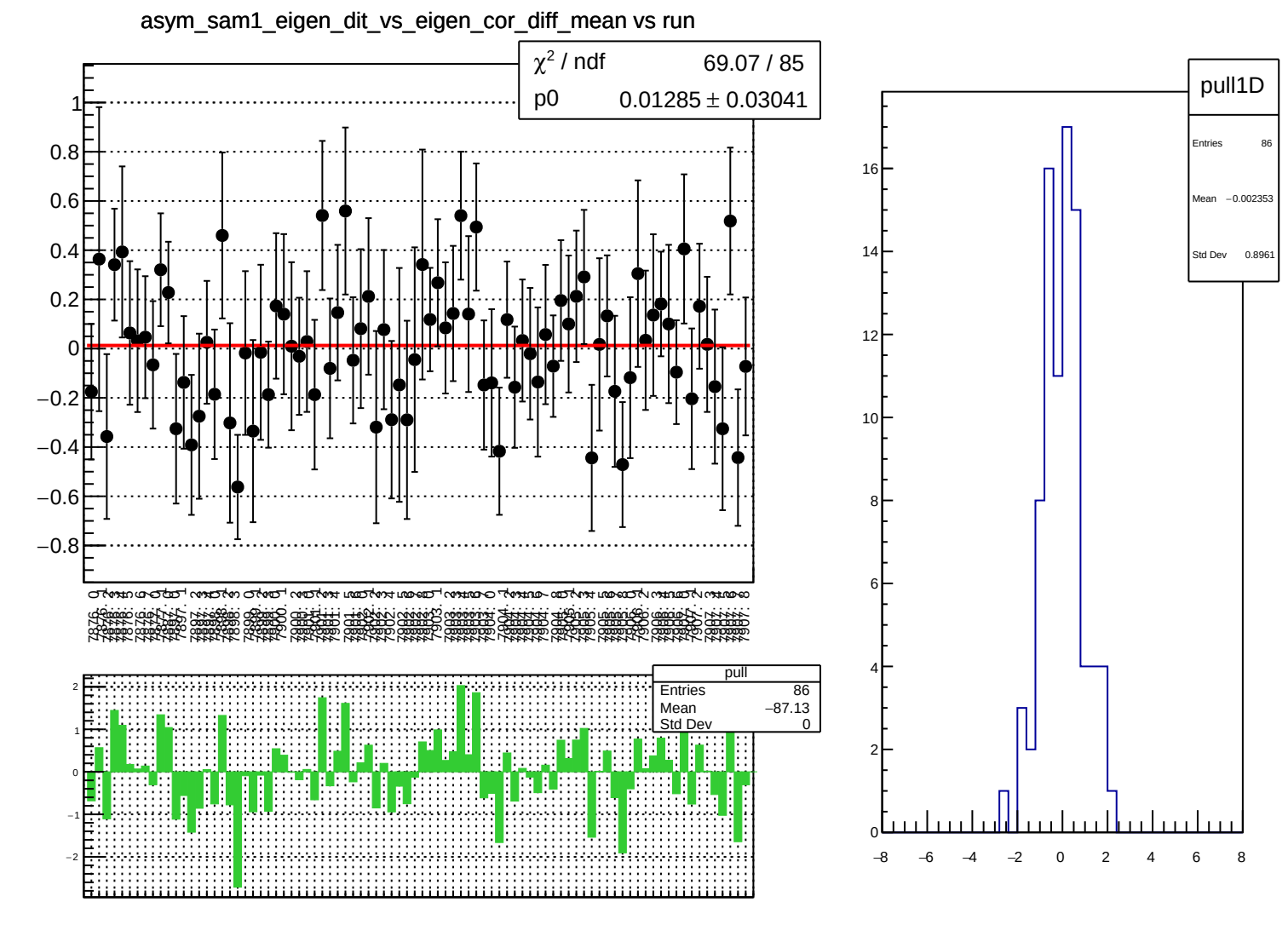

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.87 / 85
p0 1.582e−06 ± 9.901e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 137.2
Std Dev 0
2
1
0
−1
−2
−3

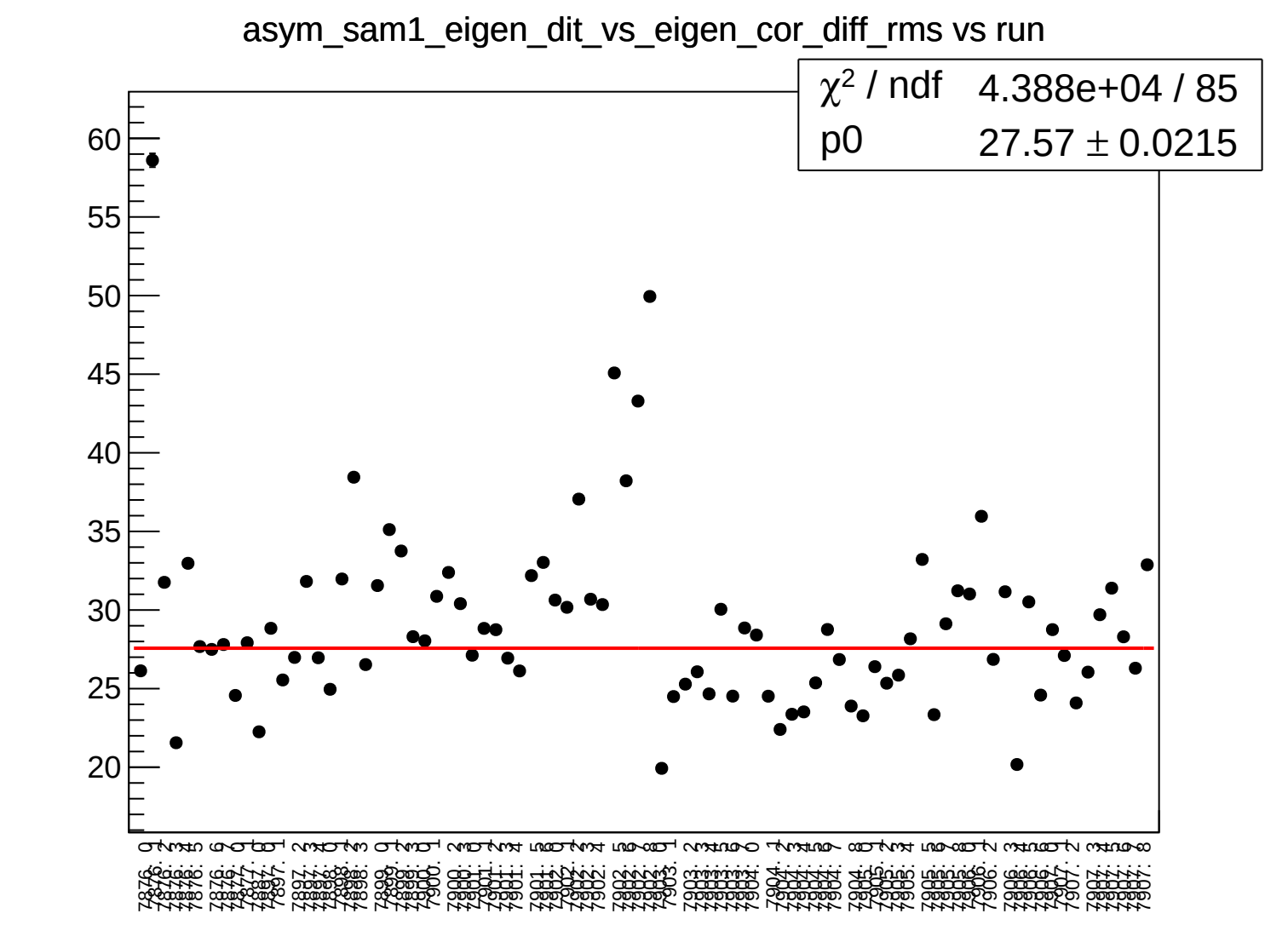

pull1D
Entries 86
Mean 0.002071
Std Dev 0.9268
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

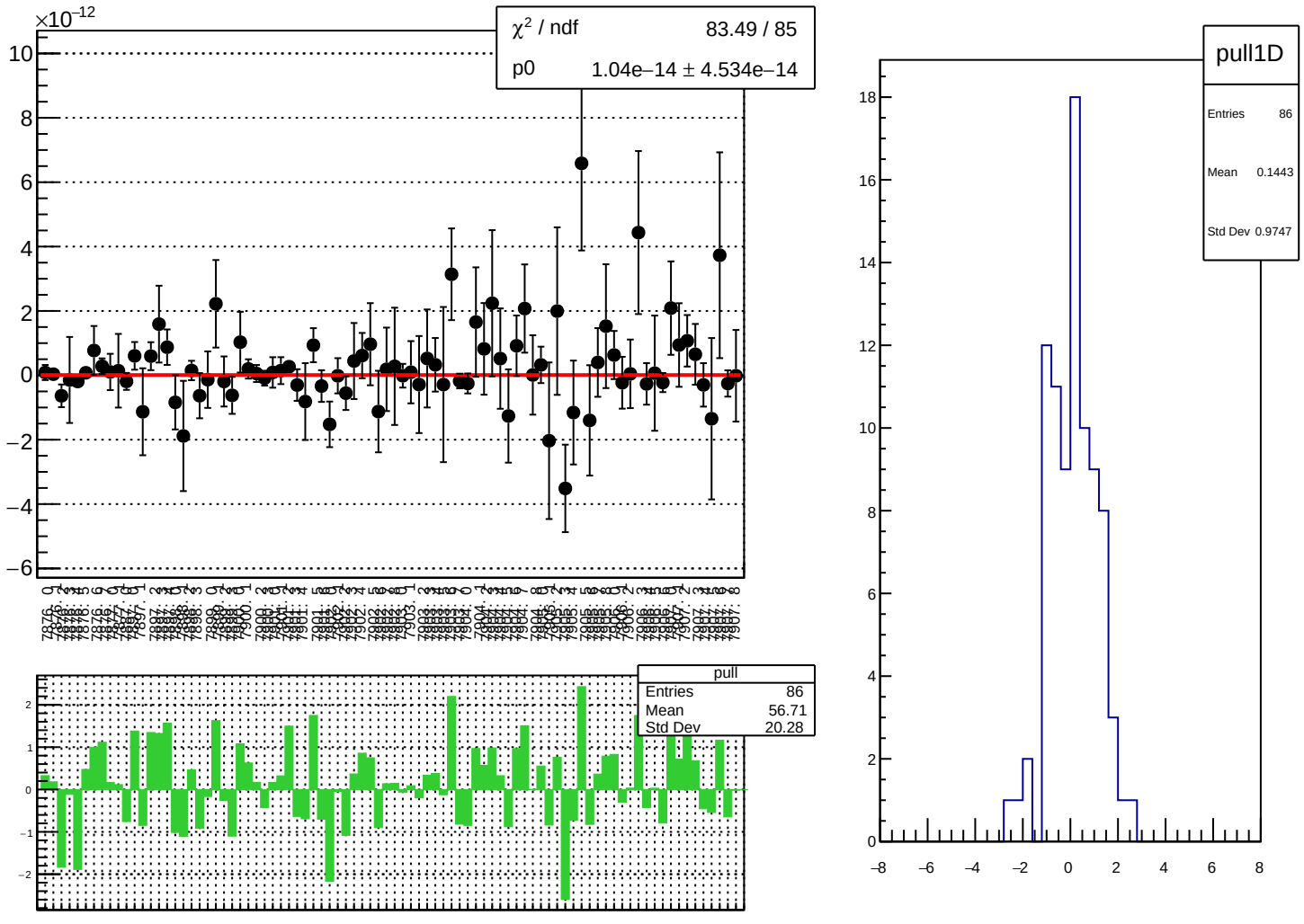

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.496e+05 / 85
p0 0.0008397 ± 7.001e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

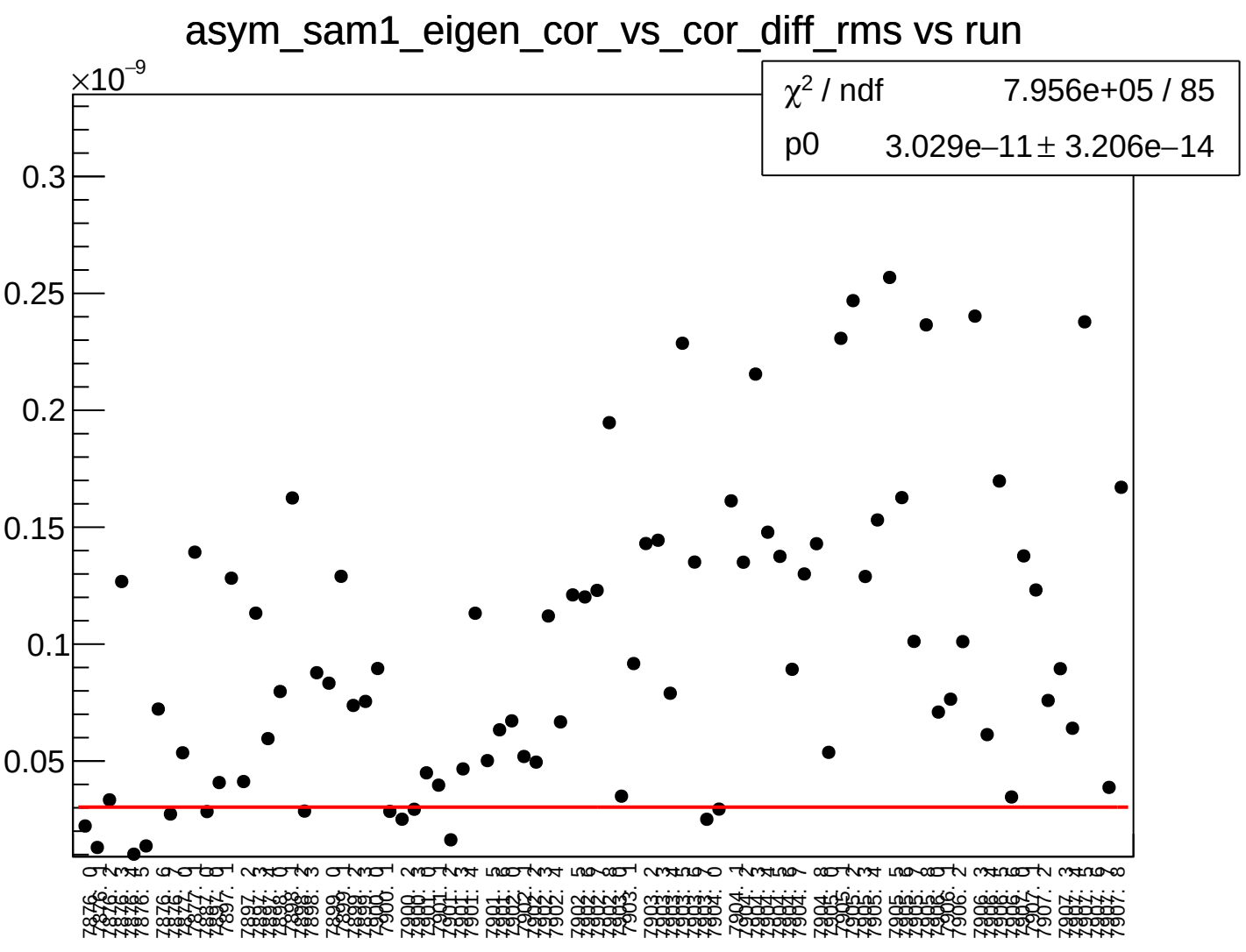

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.07 / 85
p0 0.01285 ± 0.03041
pull
Entries 86
Mean −87.13
Std Dev 0
pull1D
Entries 86
Mean −0.002353
Std Dev 0.8961

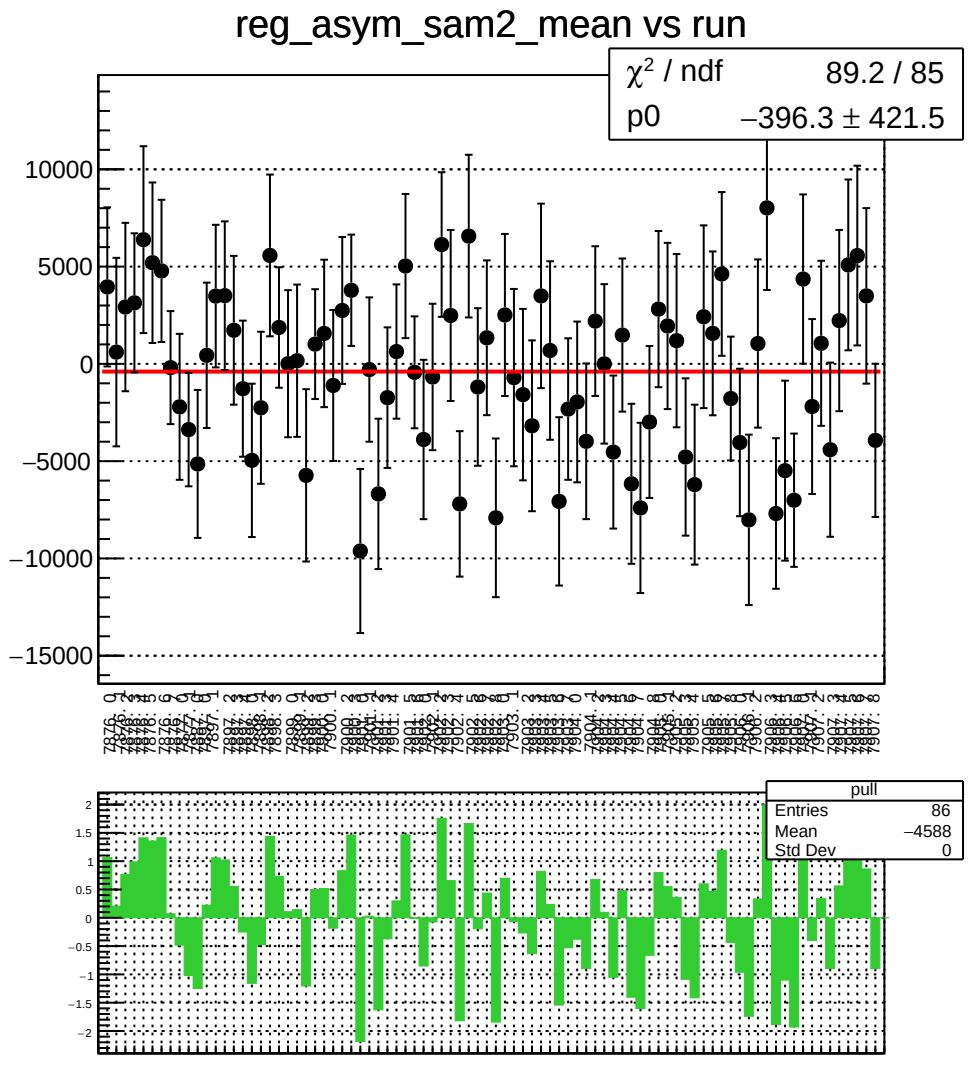

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.388e+04 / 85
p0 27.57 ± 0.0215
60
55
50
45
40
35
30
25
20

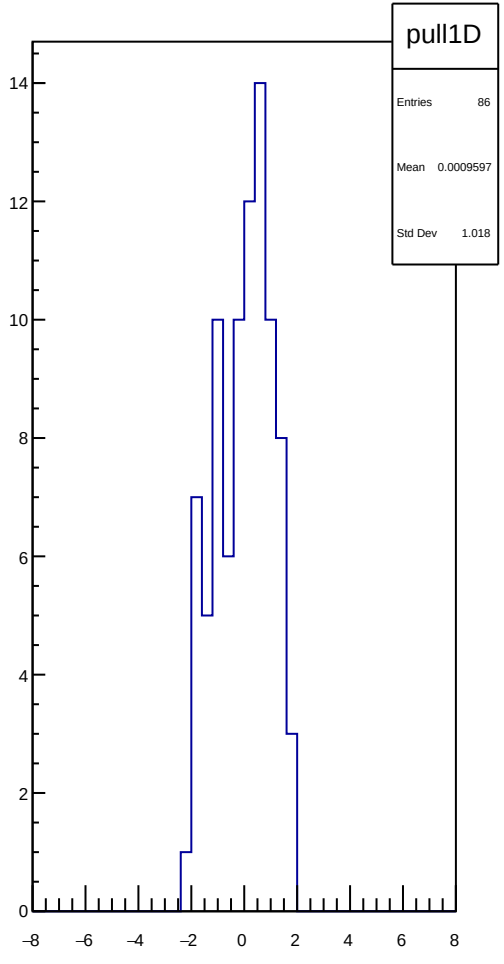

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.07 / 85
p0 0.01285 ± 0.03041
pull
Entries 86
Mean −87.13
Std Dev 0
pull1D
Entries 86
Mean −0.002353
Std Dev 0.8961

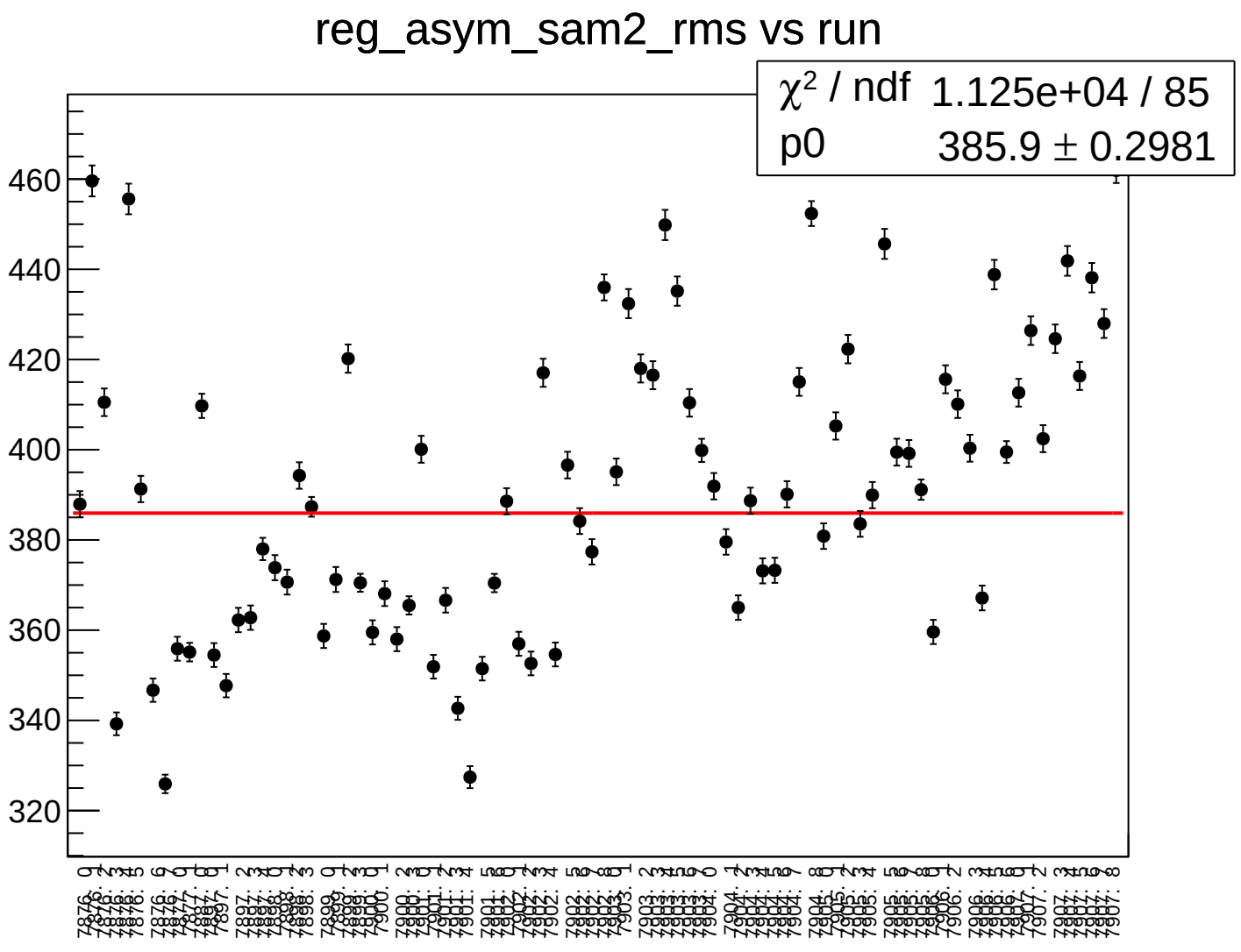

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.388e+04 / 85
p0 27.57 ± 0.0215
60
55
50
45
40
35
30
25
20

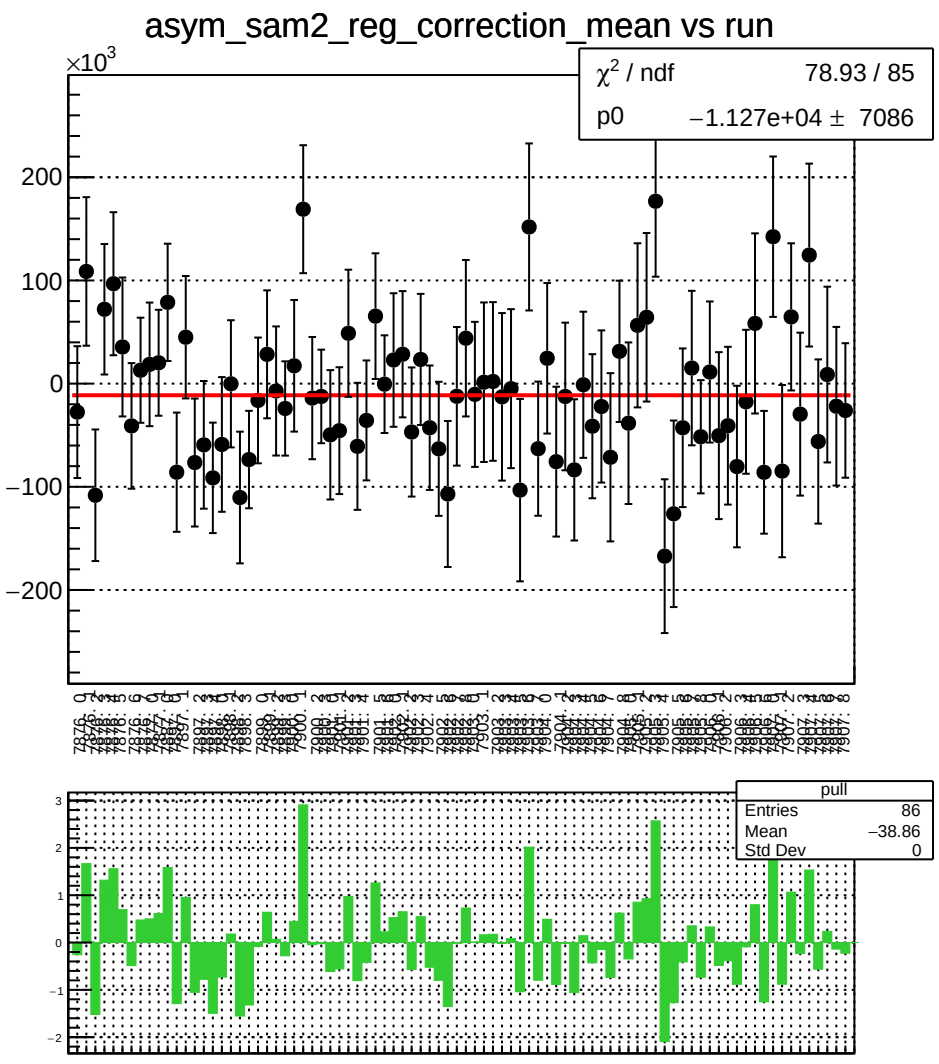

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.49 / 85
p0 1.04e−14 ± 4.534e−14
pull
Entries 86
Mean 56.71
Std Dev 20.28
pull1D
Entries 86
Mean 0.1443
Std Dev 0.9747

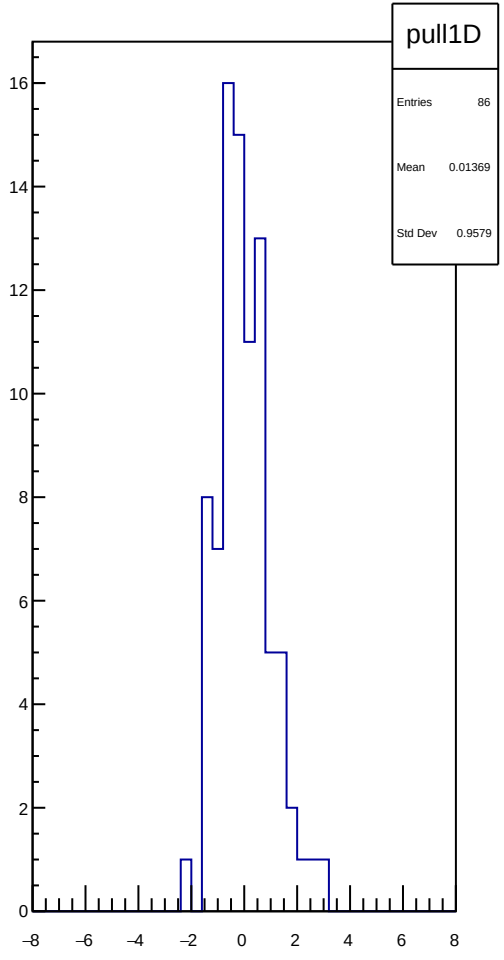

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.956e+05 / 85
p0 3.029e−11 ± 3.206e−14
0.3
0.25
0.2
0.15
0.1
0.05

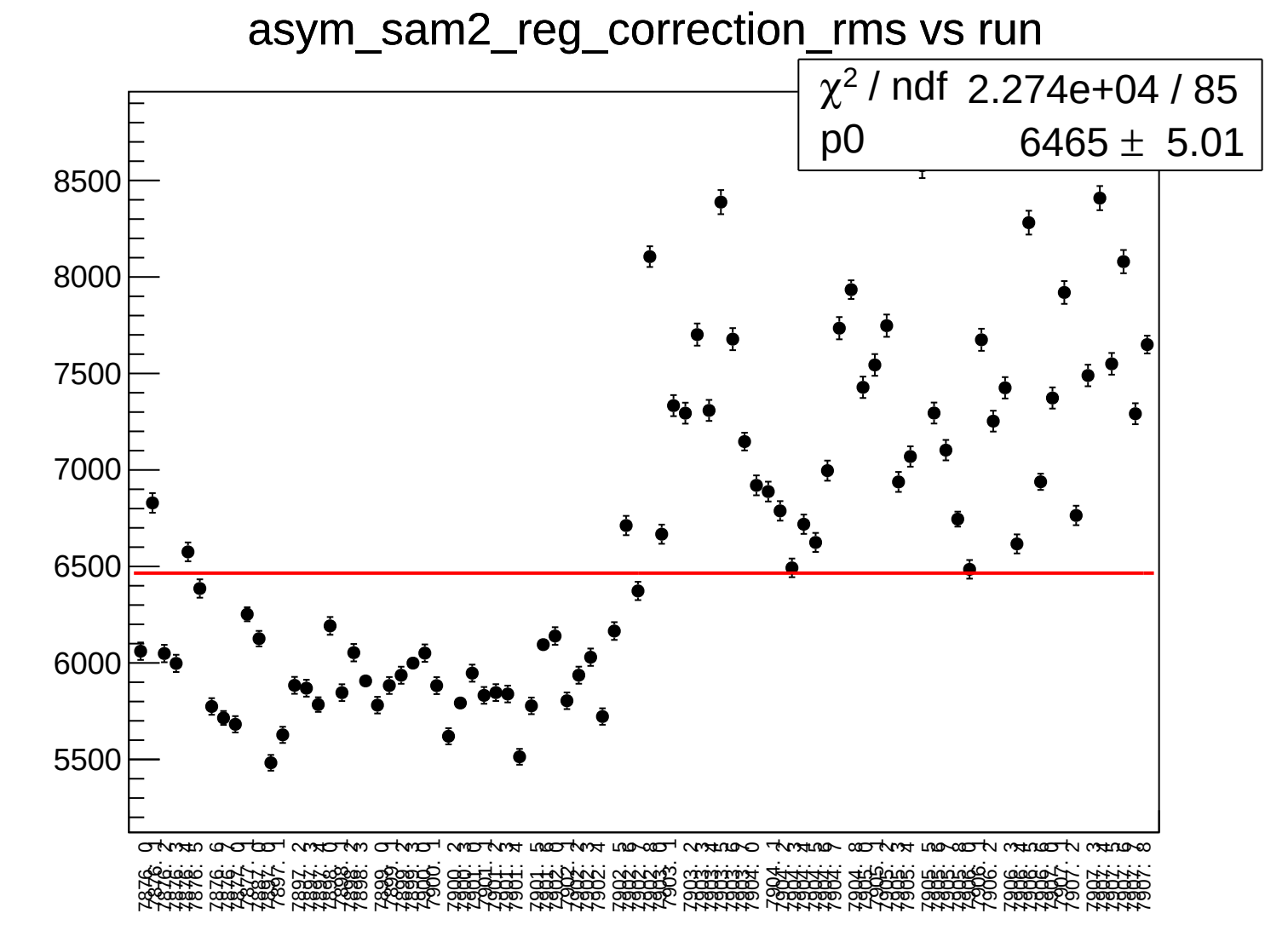

reg_asym_sam2_mean vs run
χ² / ndf 89.2 / 85
p0 −396.3 ± 421.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −4588
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

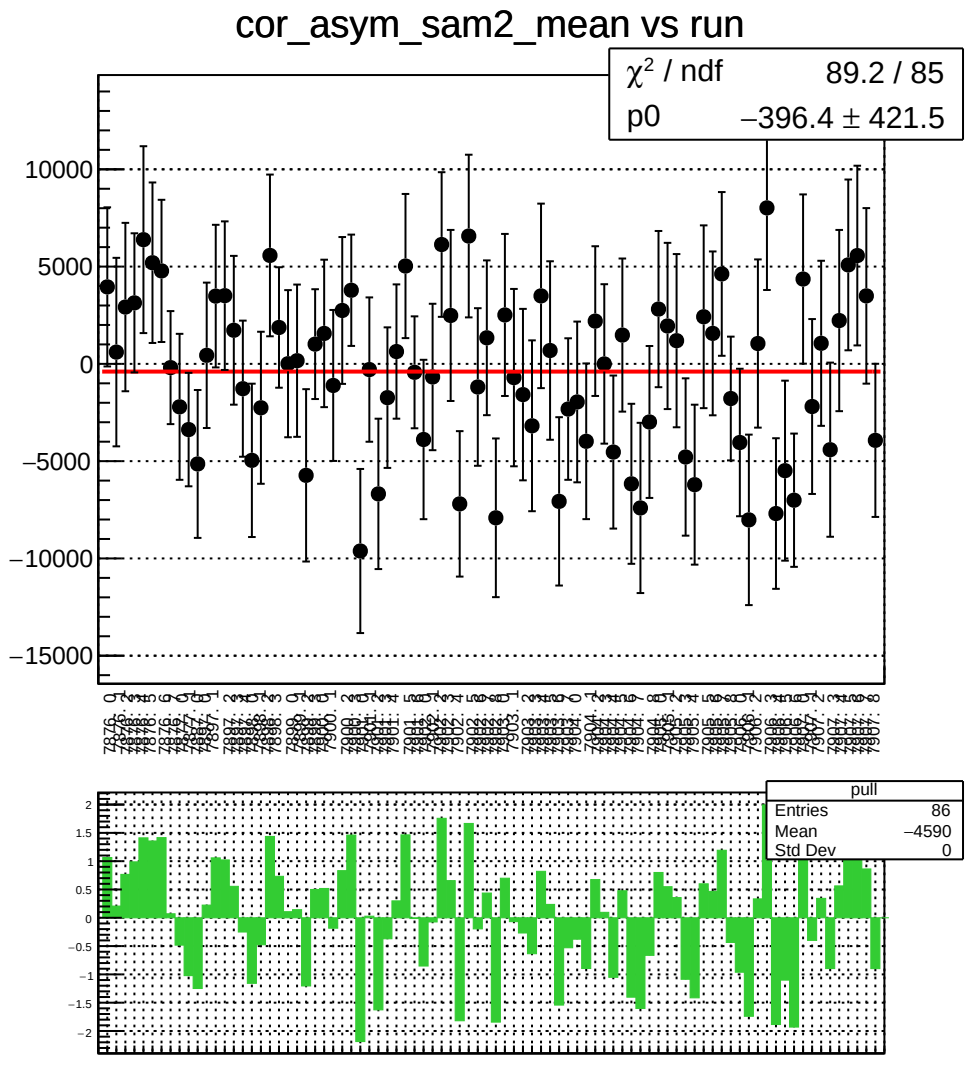

pull1D
Entries 86
Mean 0.0009597
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

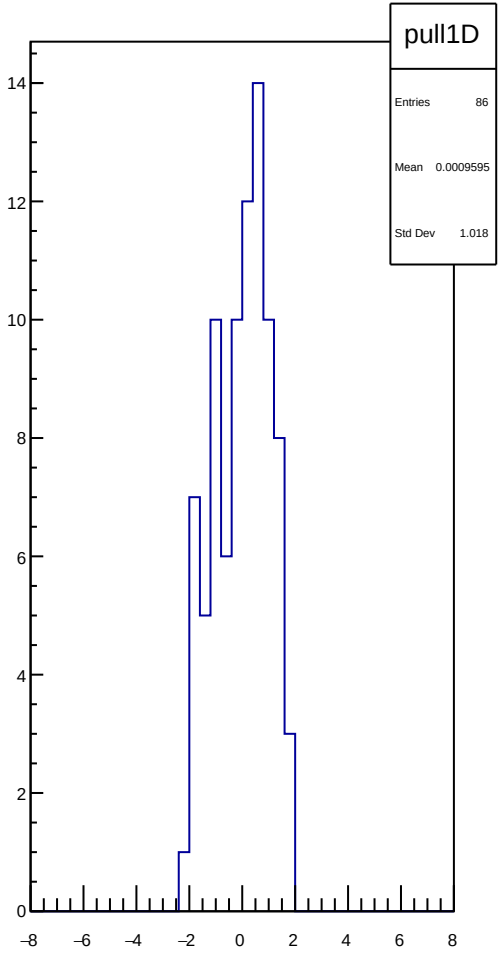

reg_asym_sam2_rms vs run
χ² / ndf 1.125e+04 / 85
p0 385.9 ± 0.2981
460
440
420
400
380
360
340
320

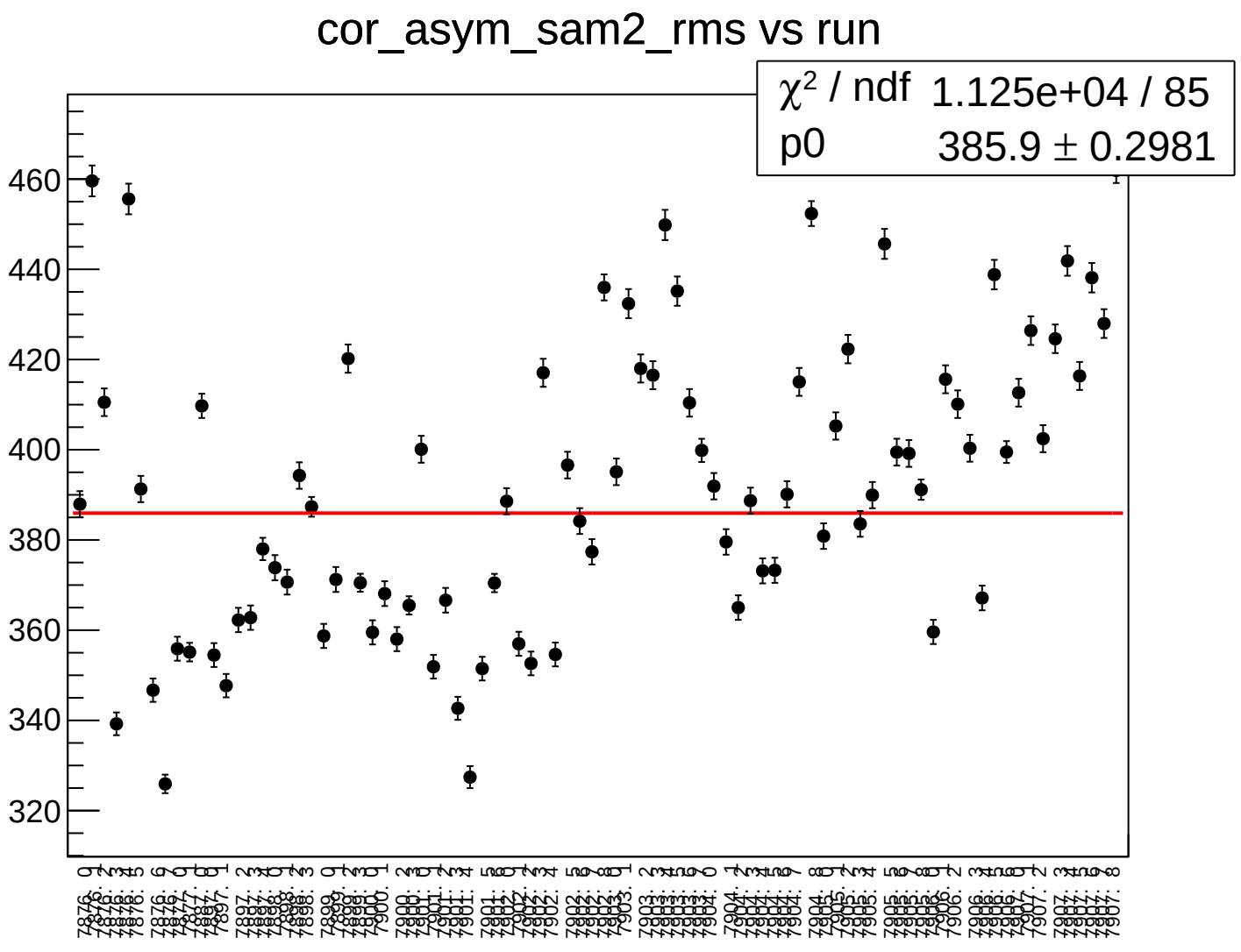

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 78.93 / 85
p0 −1.127e+04 ± 7086
200
100
0
−100
−200
pull
Entries 86
Mean −38.86
Std Dev 0
3
2
1
0
−1
−2

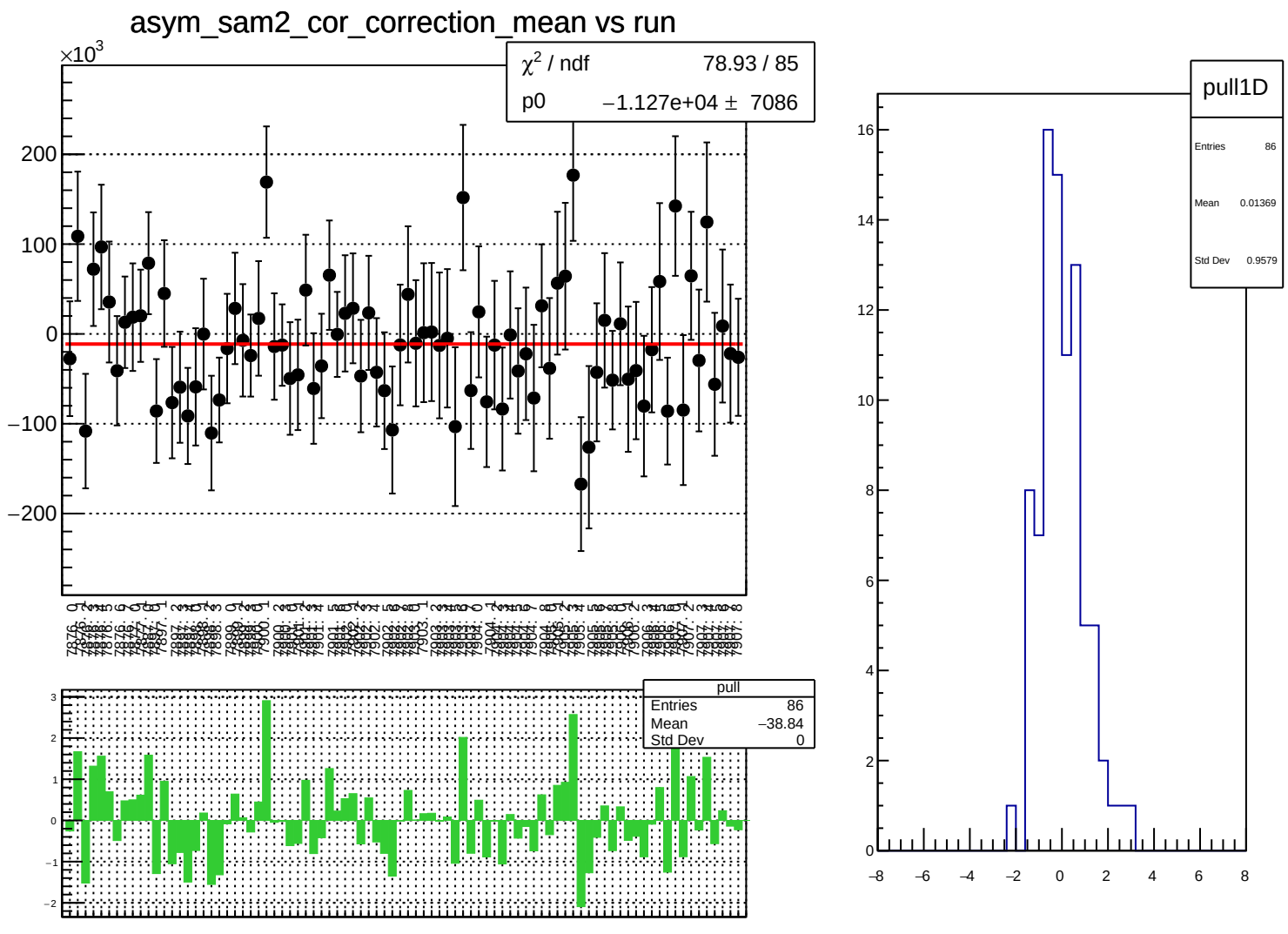

pull1D
Entries 86
Mean 0.01369
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

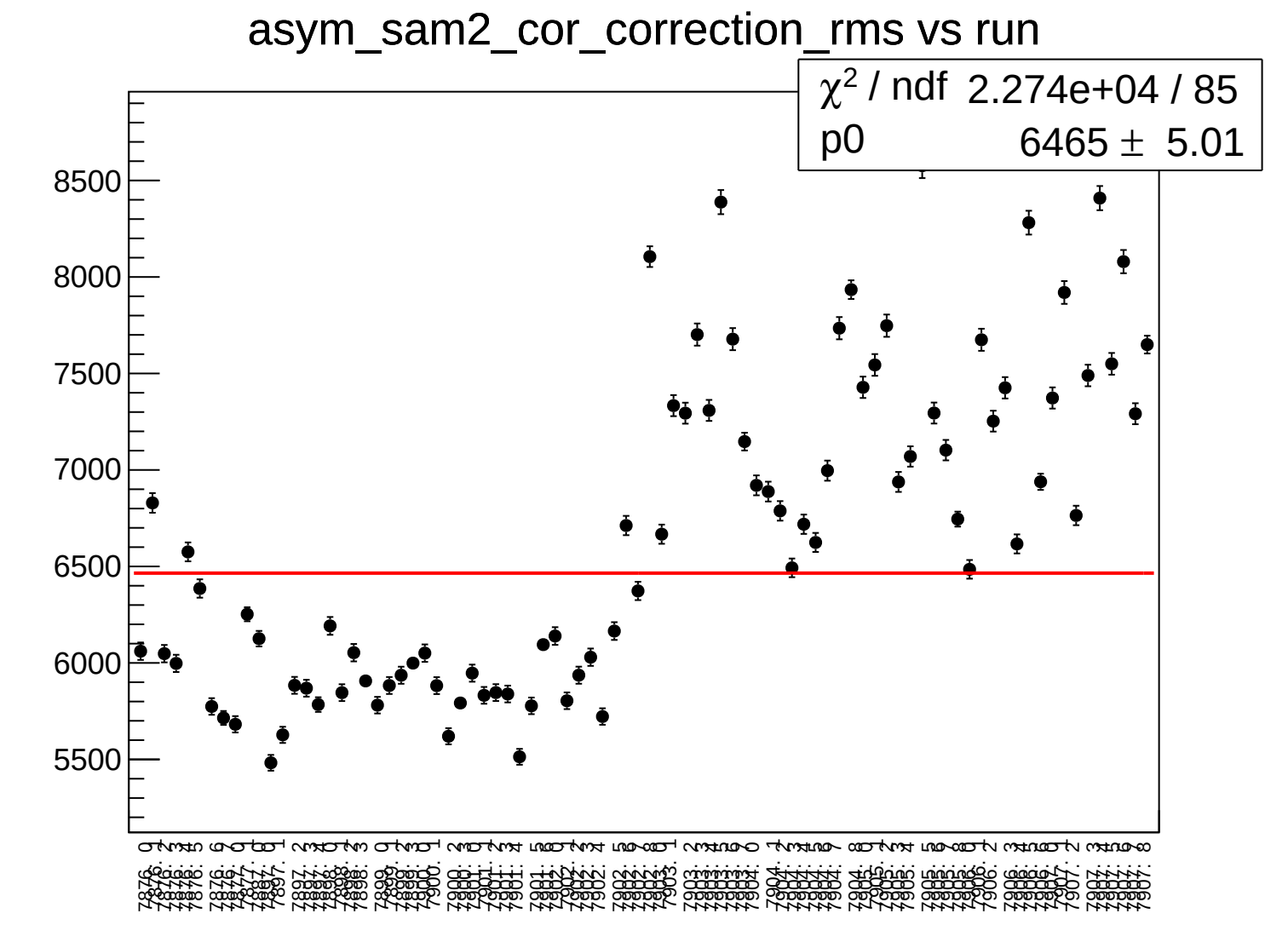

asym_sam2_reg_correction_rms vs run
χ² / ndf 2.274e+04 / 85
p0 6465 ± 5.01
8500
8000
7500
7000
6500
6000
5500

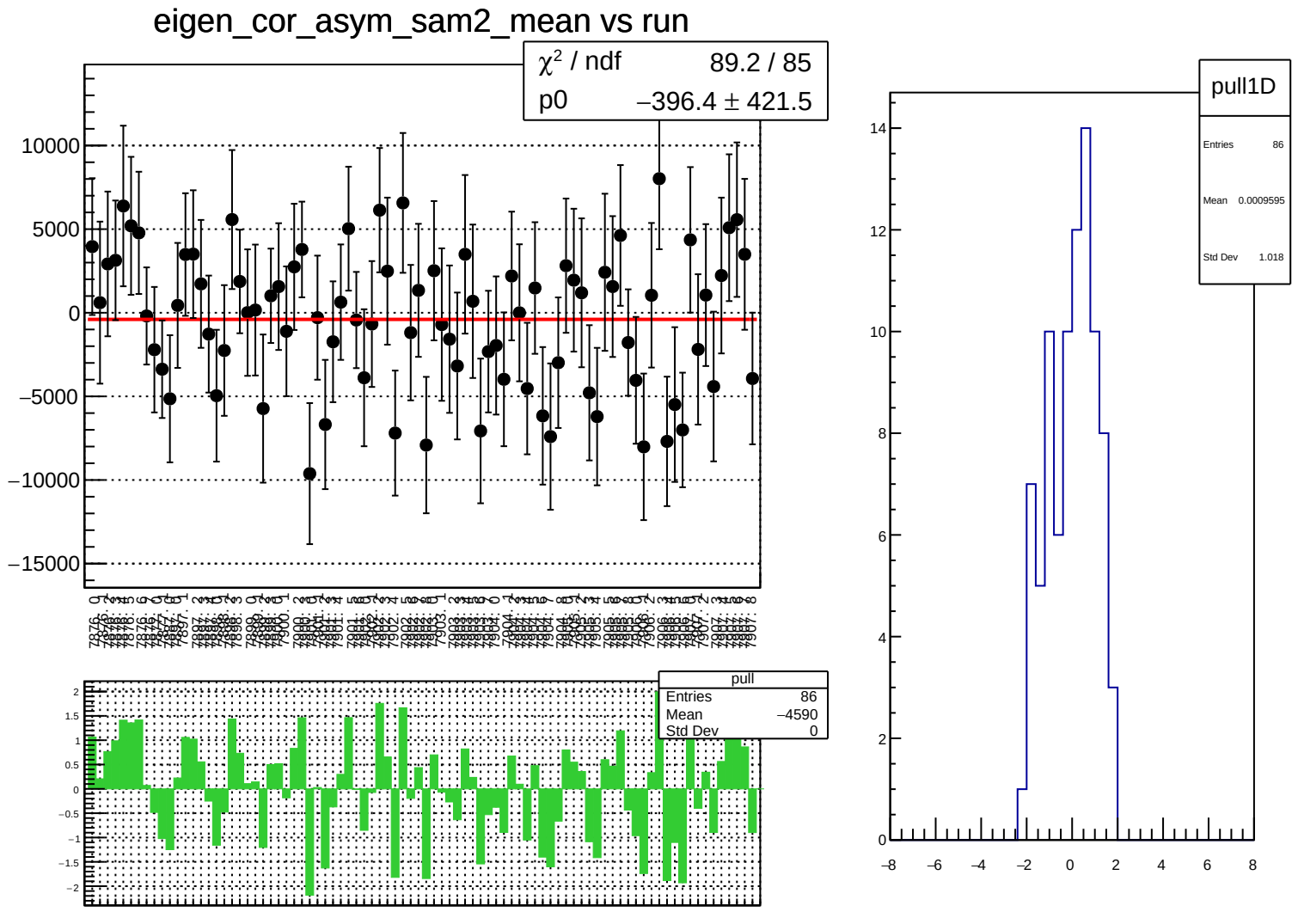

cor_asym_sam2_mean vs run
χ² / ndf 89.2 / 85
p0 −396.4 ± 421.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −4590
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

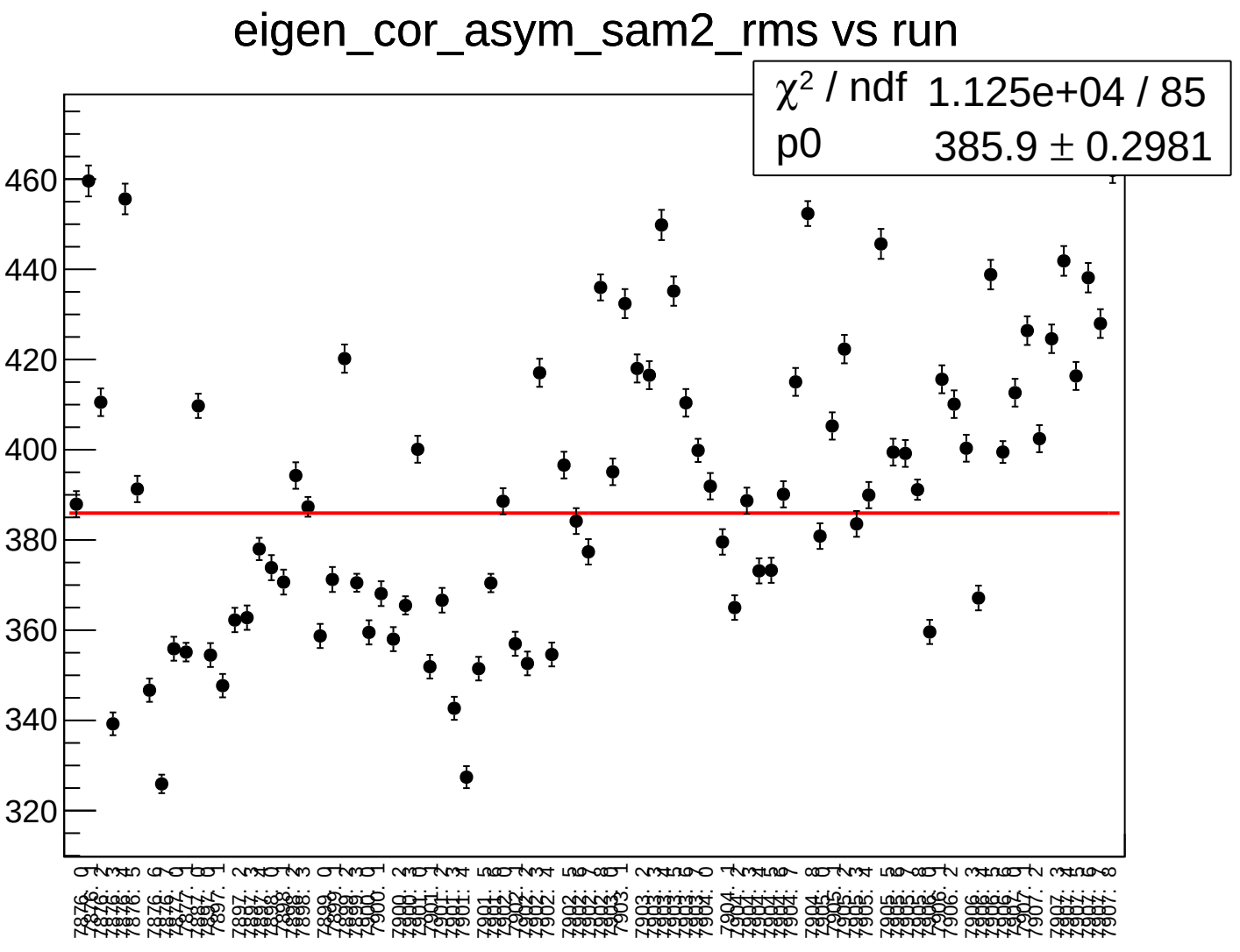

pull1D
Entries 86
Mean 0.0009595
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

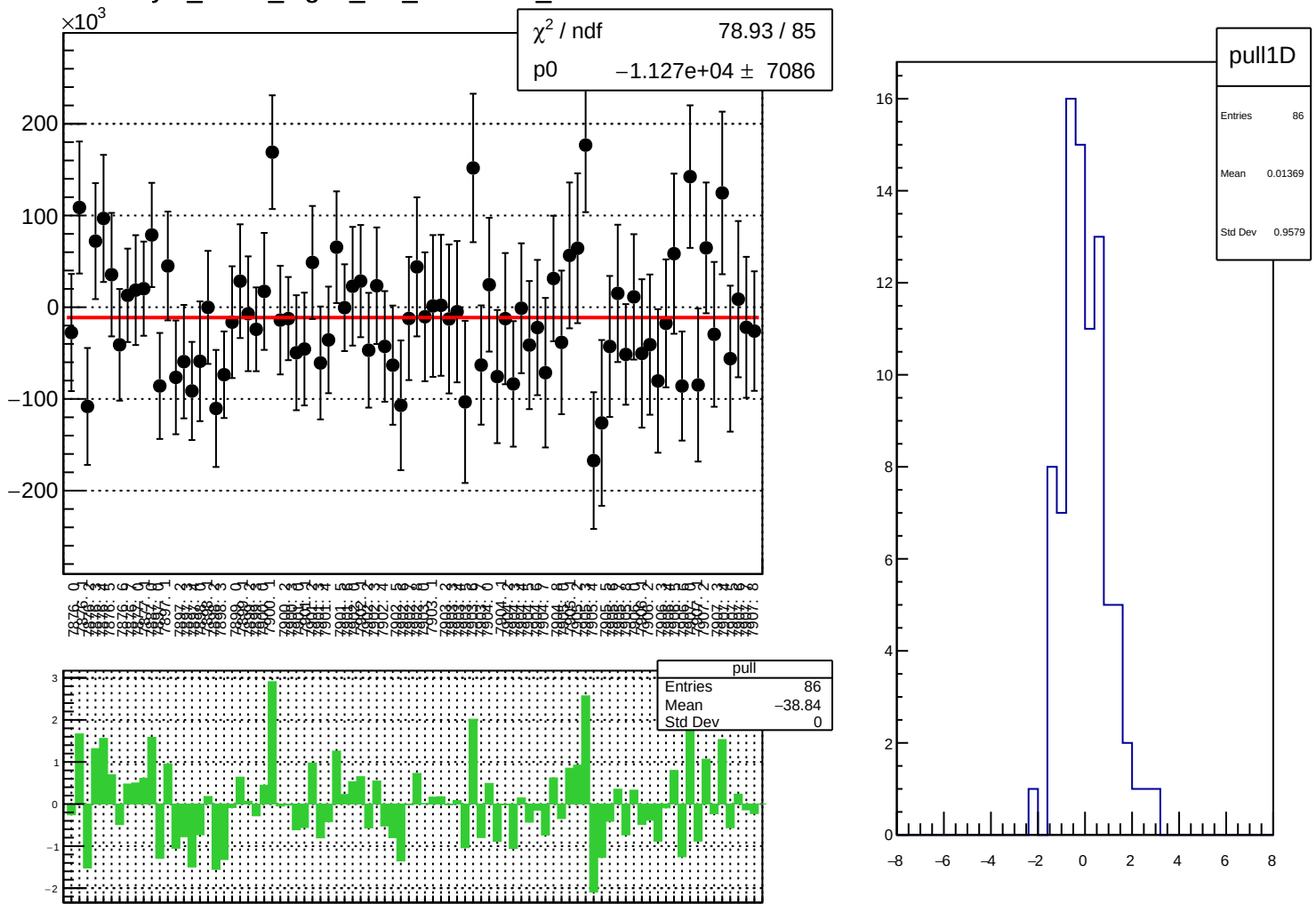

cor_asym_sam2_rms vs run
χ² / ndf 1.125e+04 / 85
p0 385.9 ± 0.2981
460
440
420
400
380
360
340
320

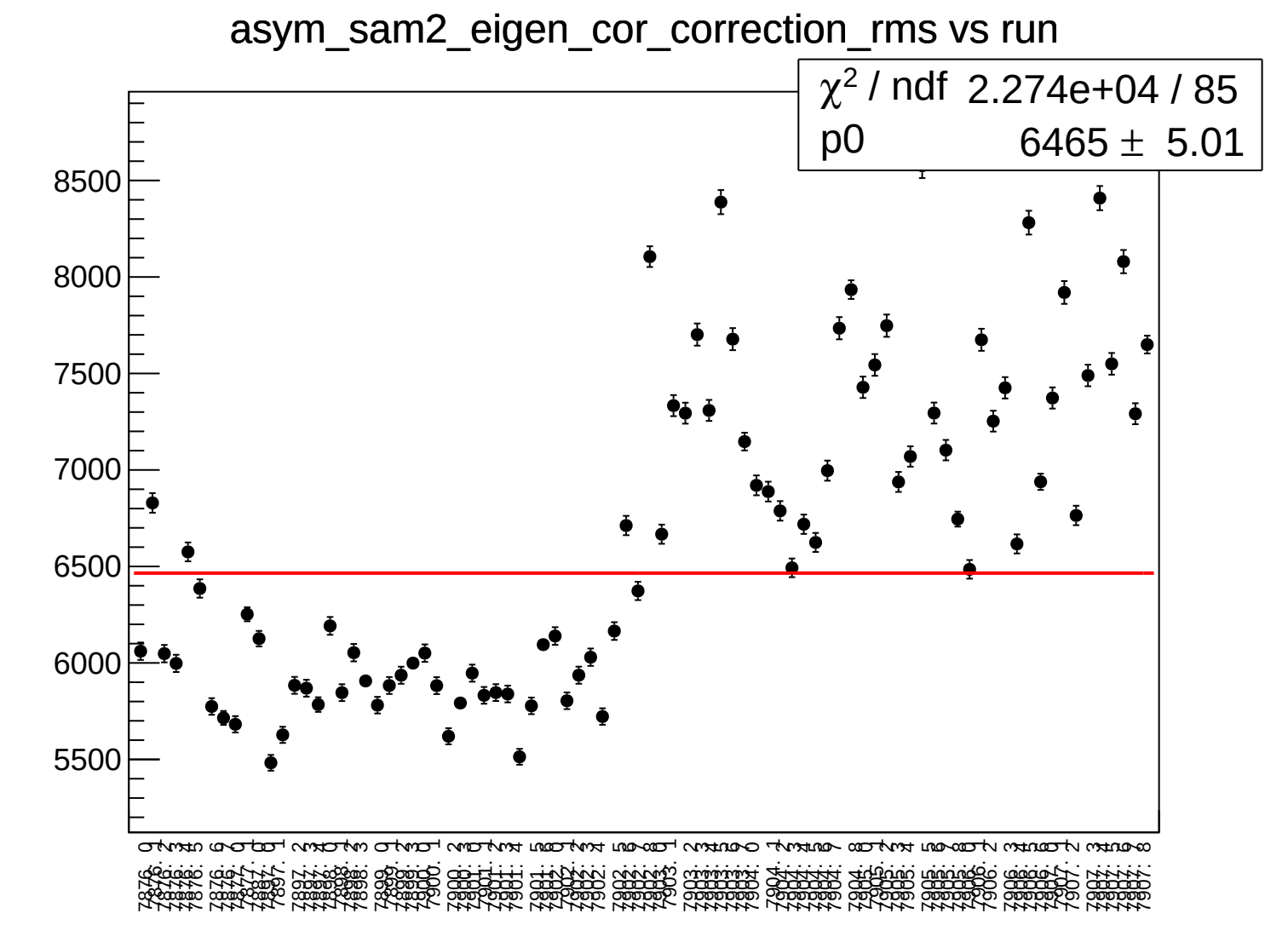

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 78.93 / 85
p0 −1.127e+04 ± 7086
200
100
0
−100
−200
pull
Entries 86
Mean −38.84
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01369
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

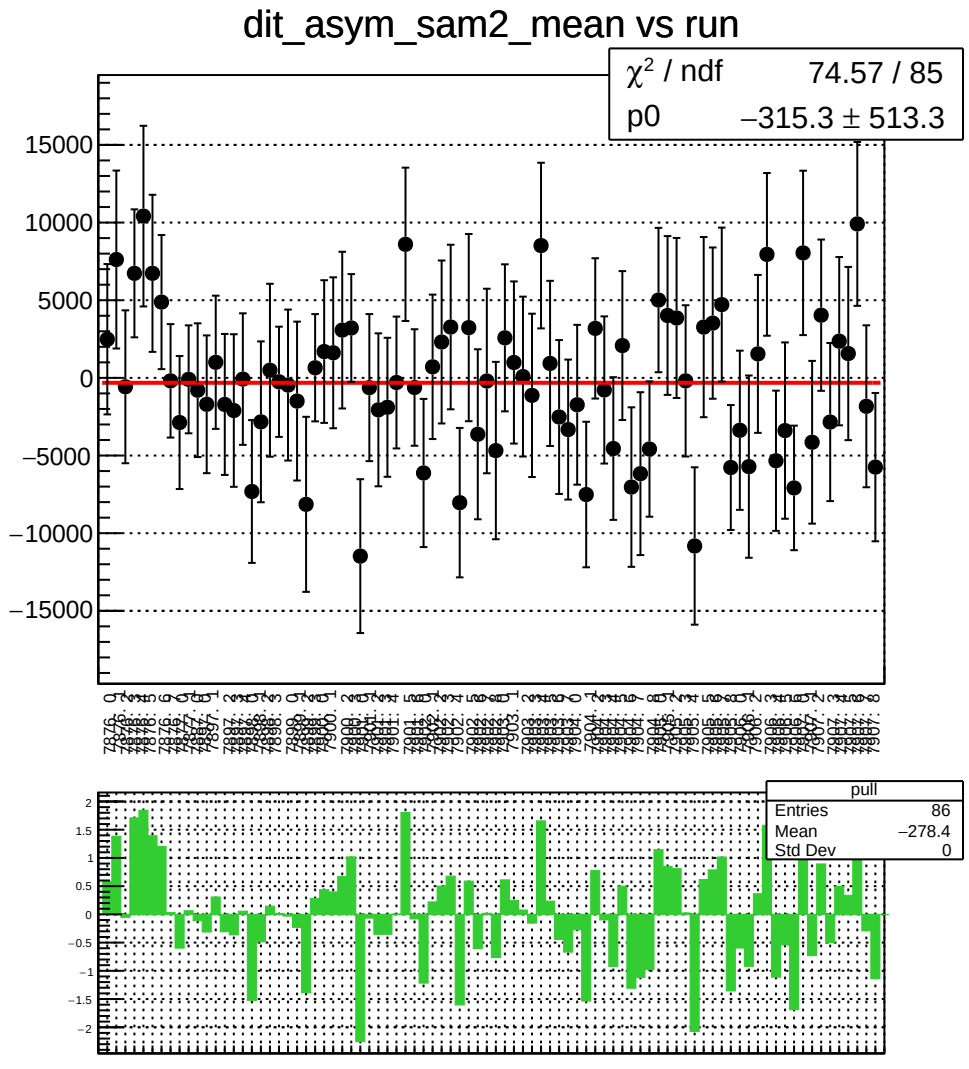

asym_sam2_cor_correction_rms vs run
χ^2 / ndf 2.274e+04 / 85
p0 6465 ± 5.01
8500
8000
7500
7000
6500
6000
5500

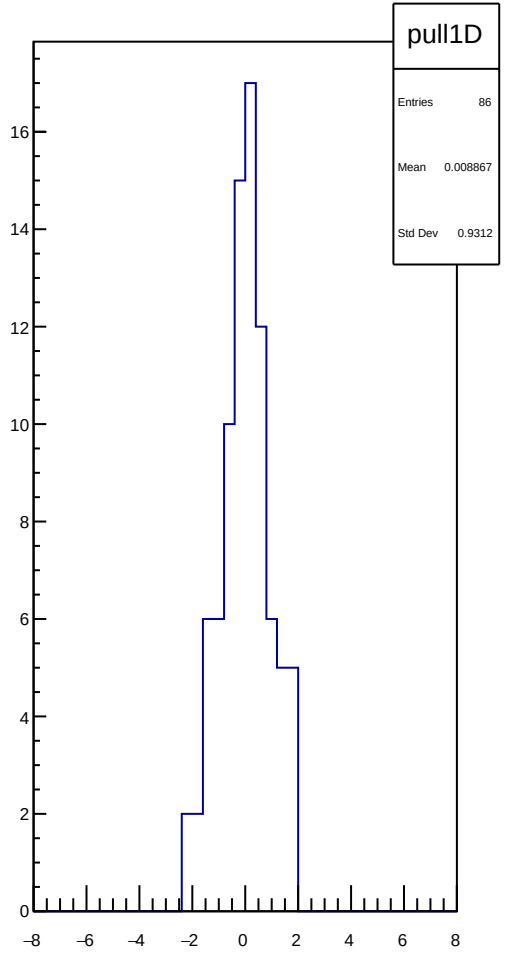

eigen_cor_asym_sam2_mean vs run
χ² / ndf 89.2 / 85
p0 −396.4 ± 421.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −4590
Std Dev 0
pull1D
Entries 86
Mean 0.0009595
Std Dev 1.018

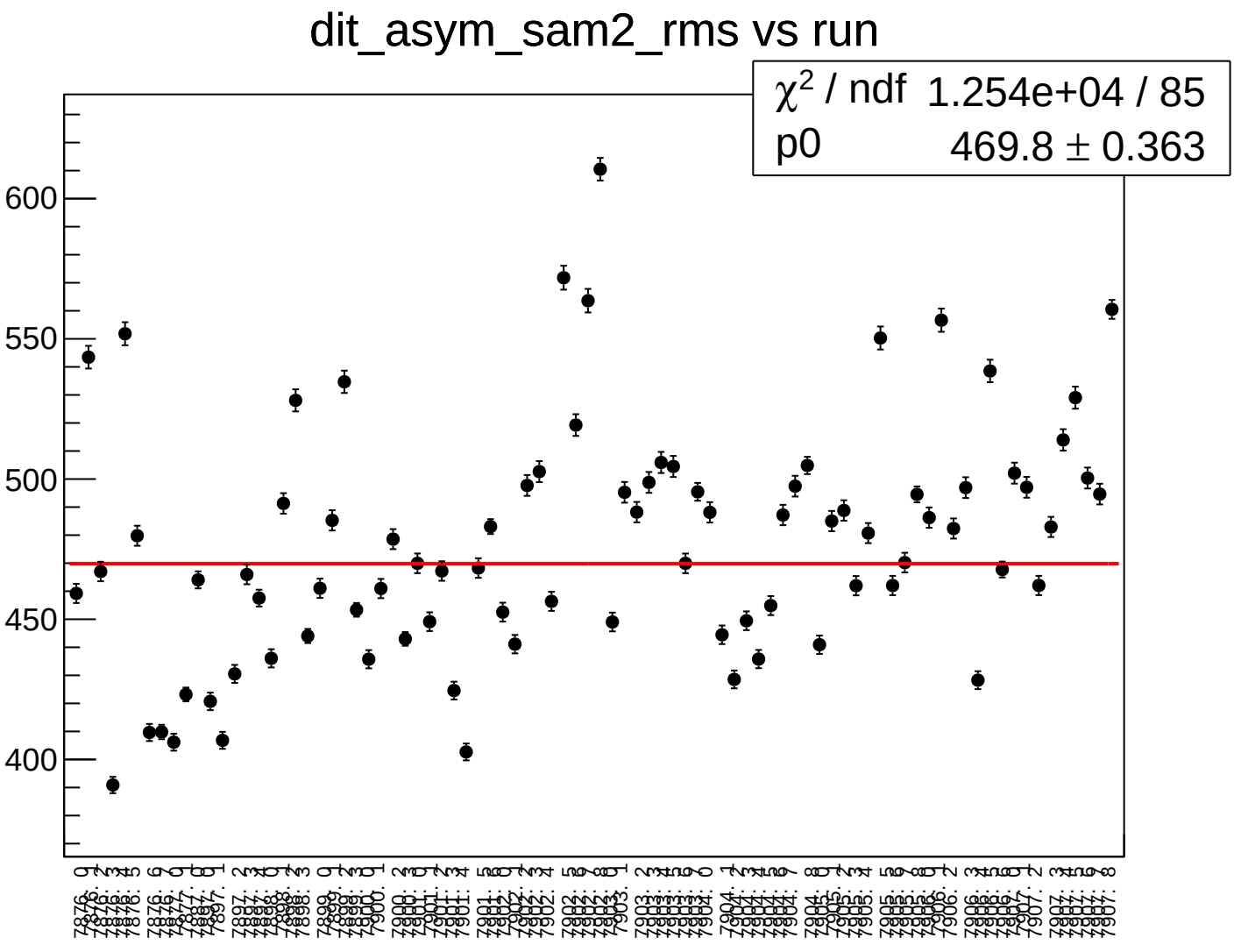

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1.125e+04 / 85
p0 385.9 ± 0.2981
460
440
420
400
380
360
340
320

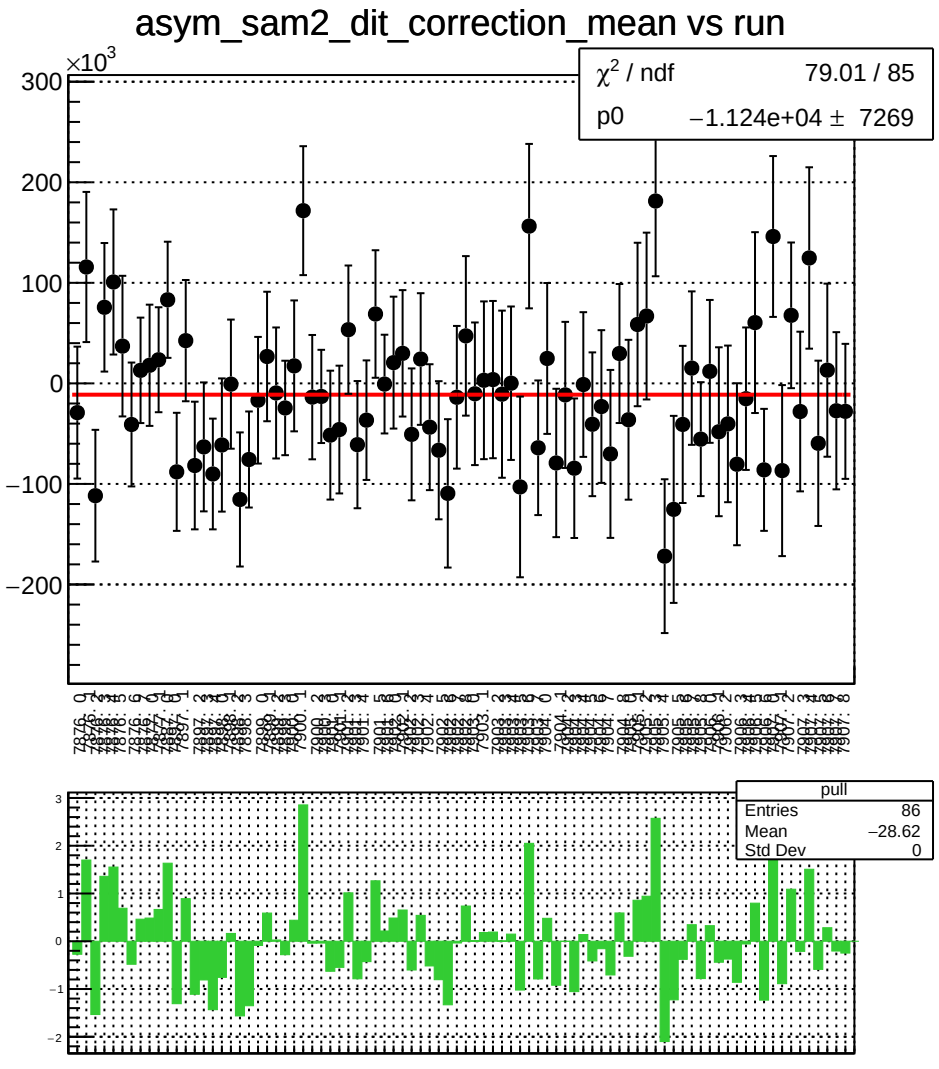

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.93 / 85
p0 −1.127e+04 ± 7086
200
100
0
−100
−200
pull
Entries 86
Mean −38.84
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01369
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

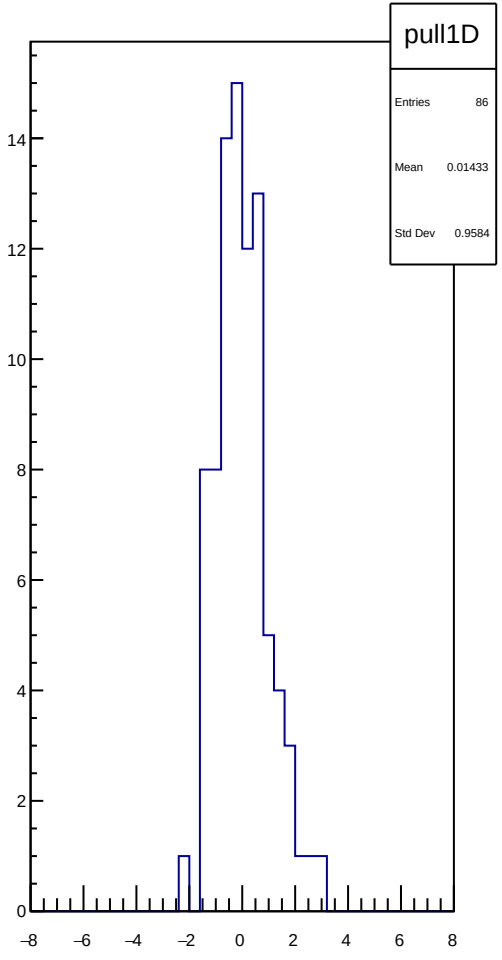

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 2.274e+04 / 85
p0 6465 ± 5.01
8500
8000
7500
7000
6500
6000
5500

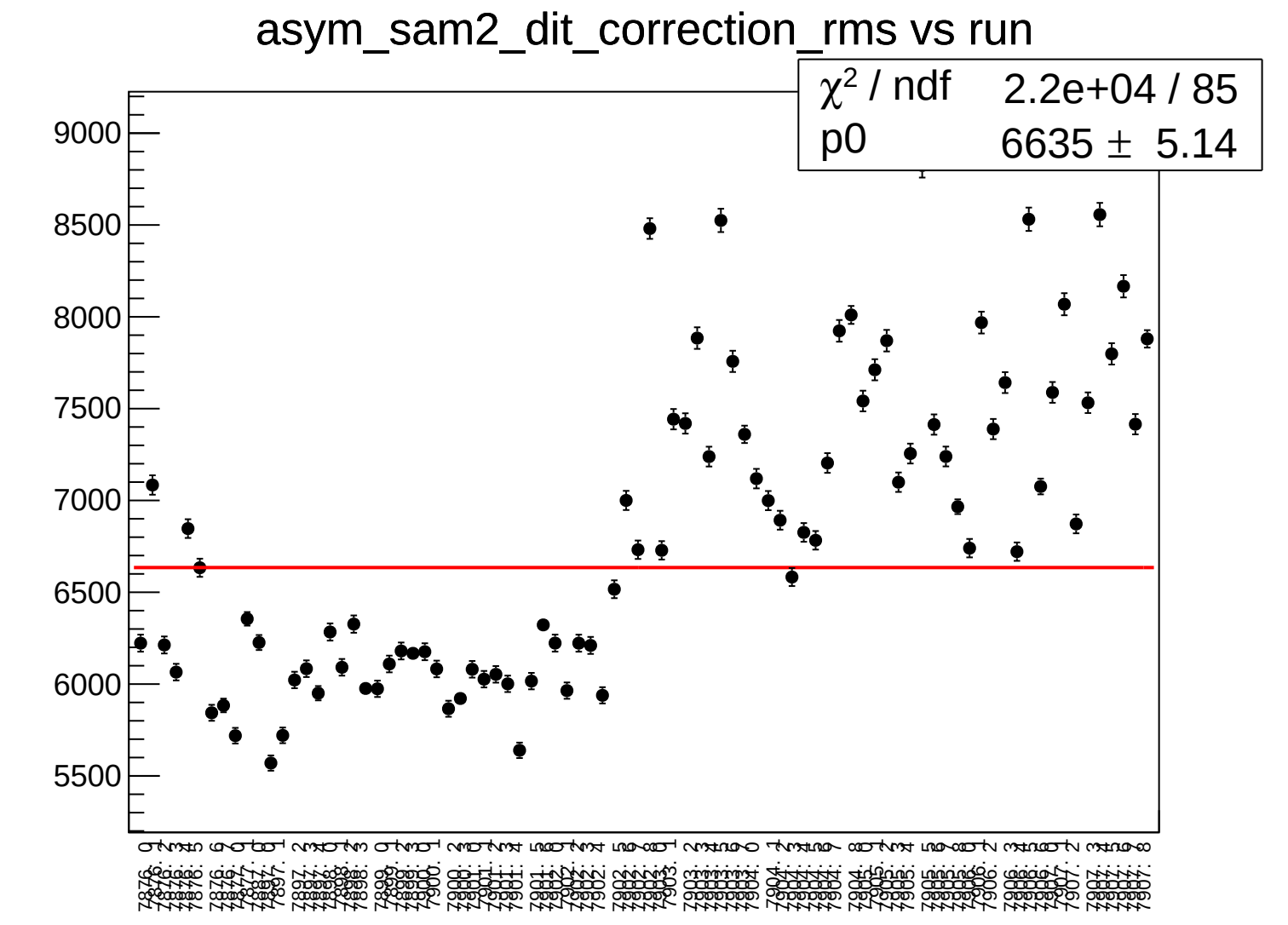

dit_asym_sam2_mean vs run
χ² / ndf 74.57 / 85
p0 −315.3 ± 513.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −278.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

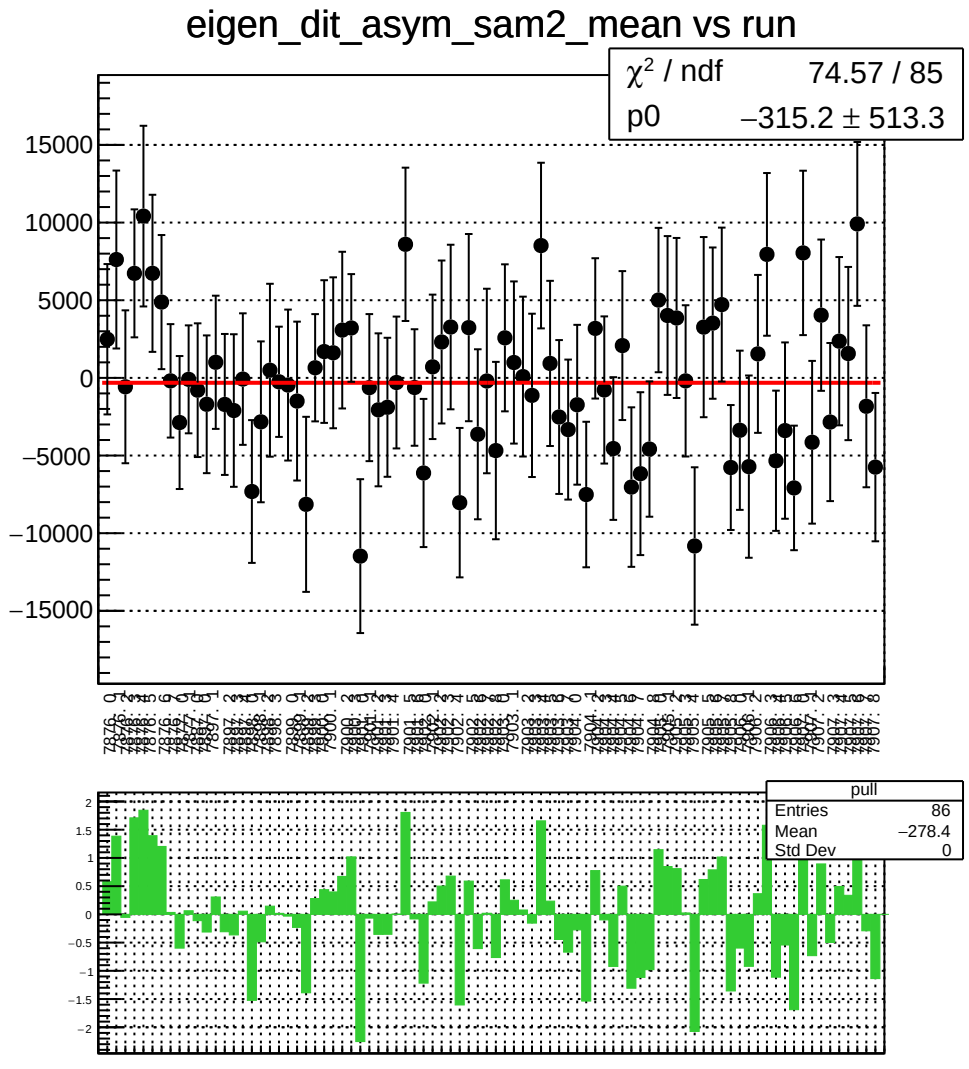

pull1D
Entries 86
Mean 0.008867
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

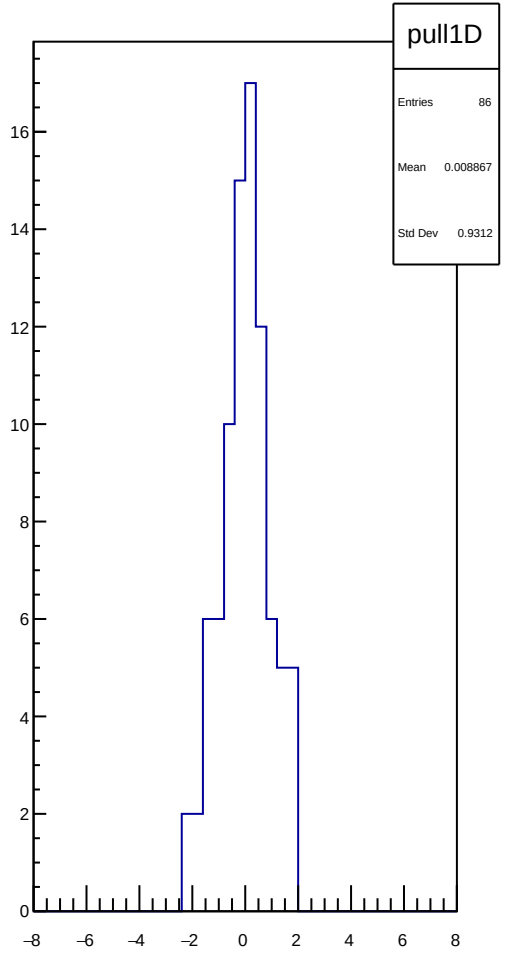

dit_asym_sam2_rms vs run
χ^2 / ndf 1.254e+04 / 85
p0 469.8 ± 0.363
600
550
500
450
400

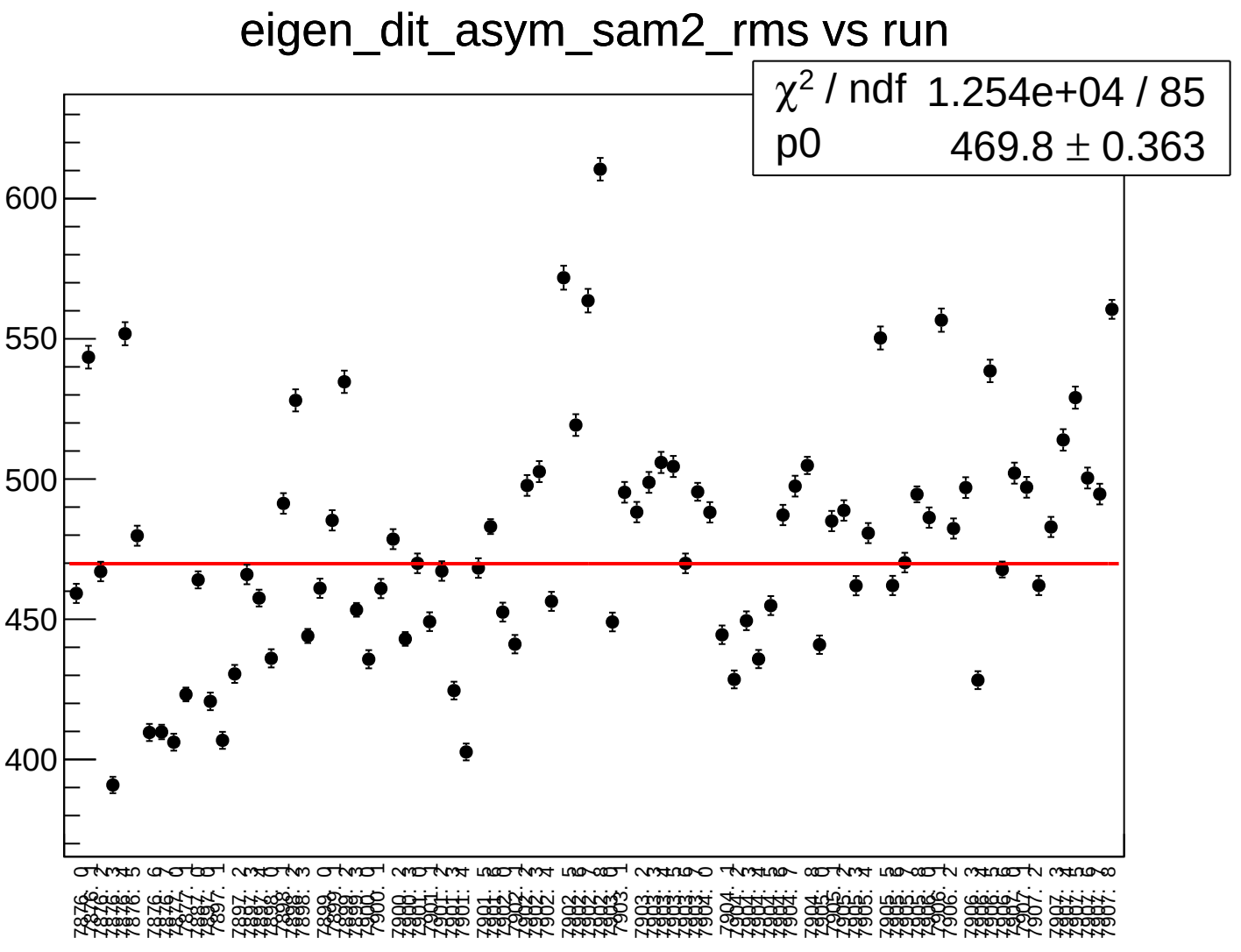

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 79.01 / 85
p0 −1.124e+04 ± 7269
pull
Entries 86
Mean −28.62
Std Dev 0

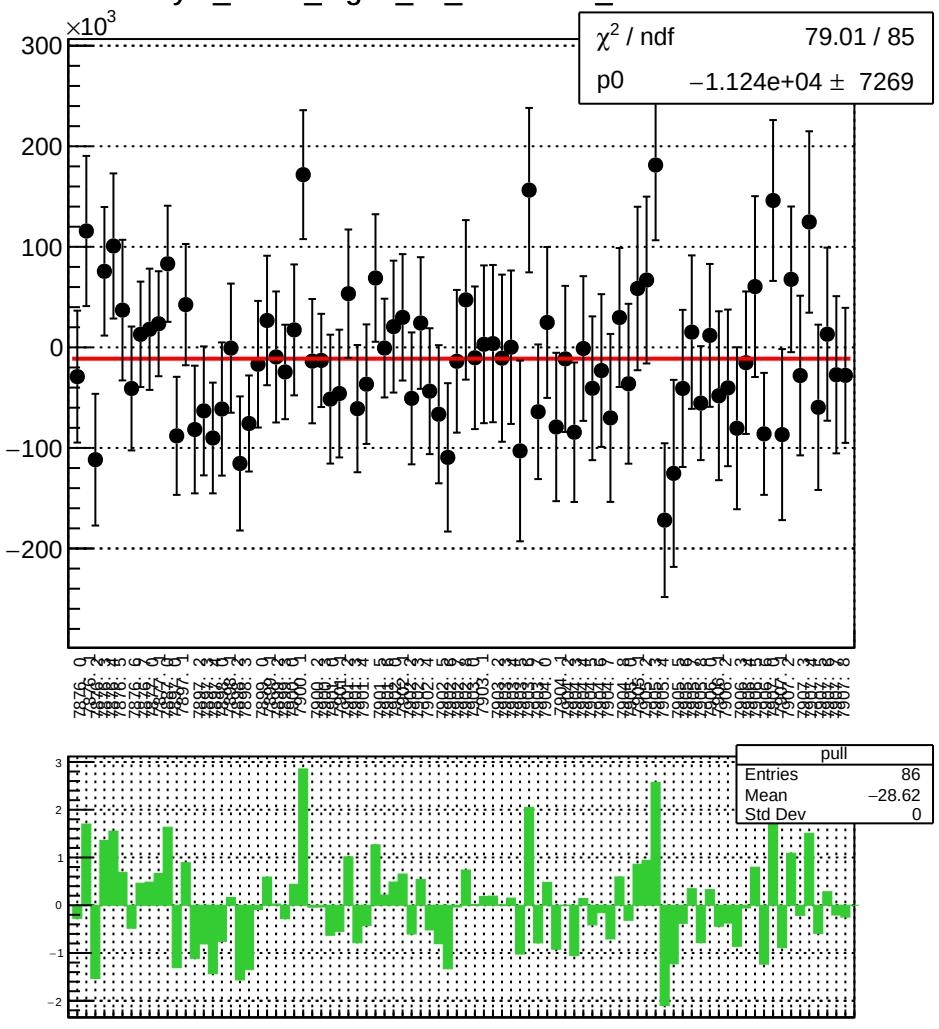

pull1D
Entries 86
Mean 0.01433
Std Dev 0.9584

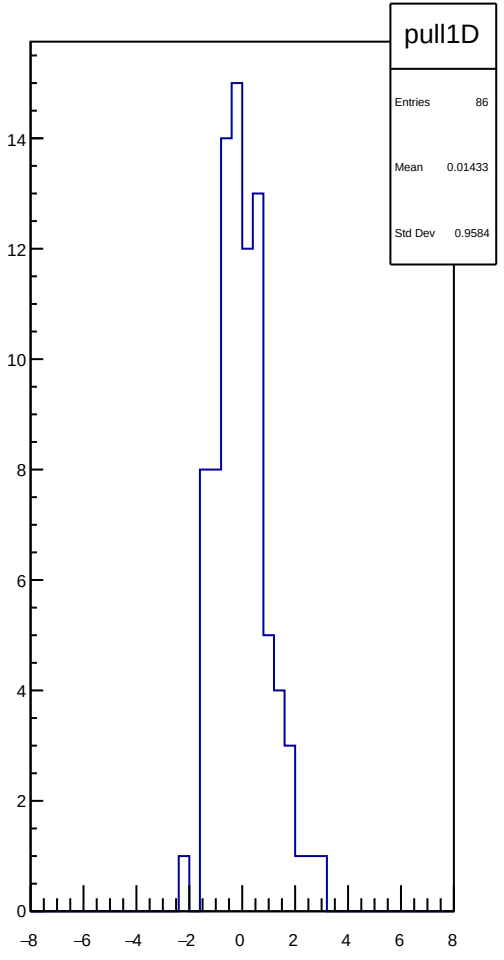

asym_sam2_dit_correction_rms vs run
χ² / ndf 2.2e+04 / 85
p0 6635 ± 5.14
9000
8500
8000
7500
7000
6500
6000
5500

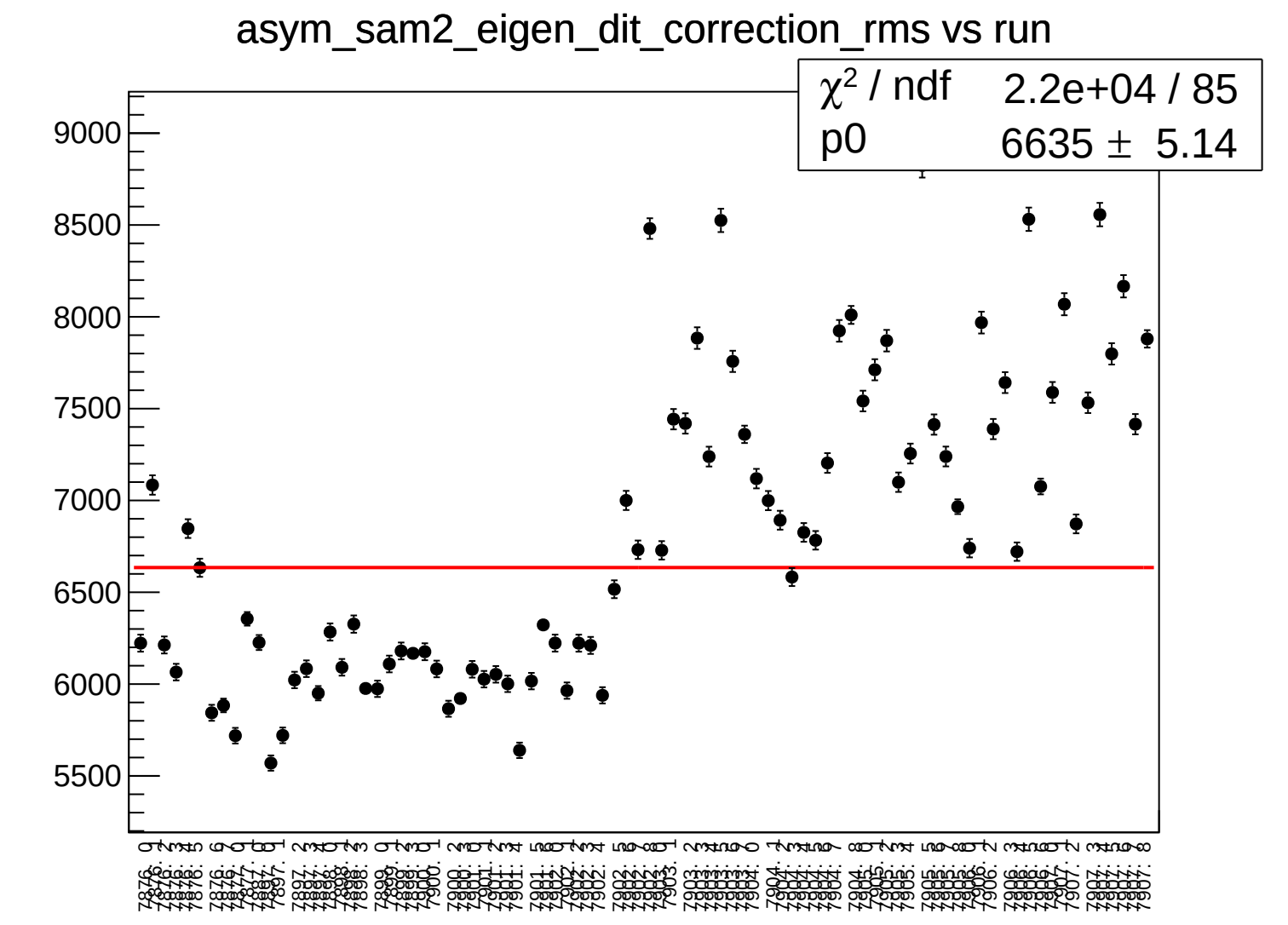

eigen_dit_asym_sam2_mean vs run
χ² / ndf 74.57 / 85
p0 −315.2 ± 513.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −278.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

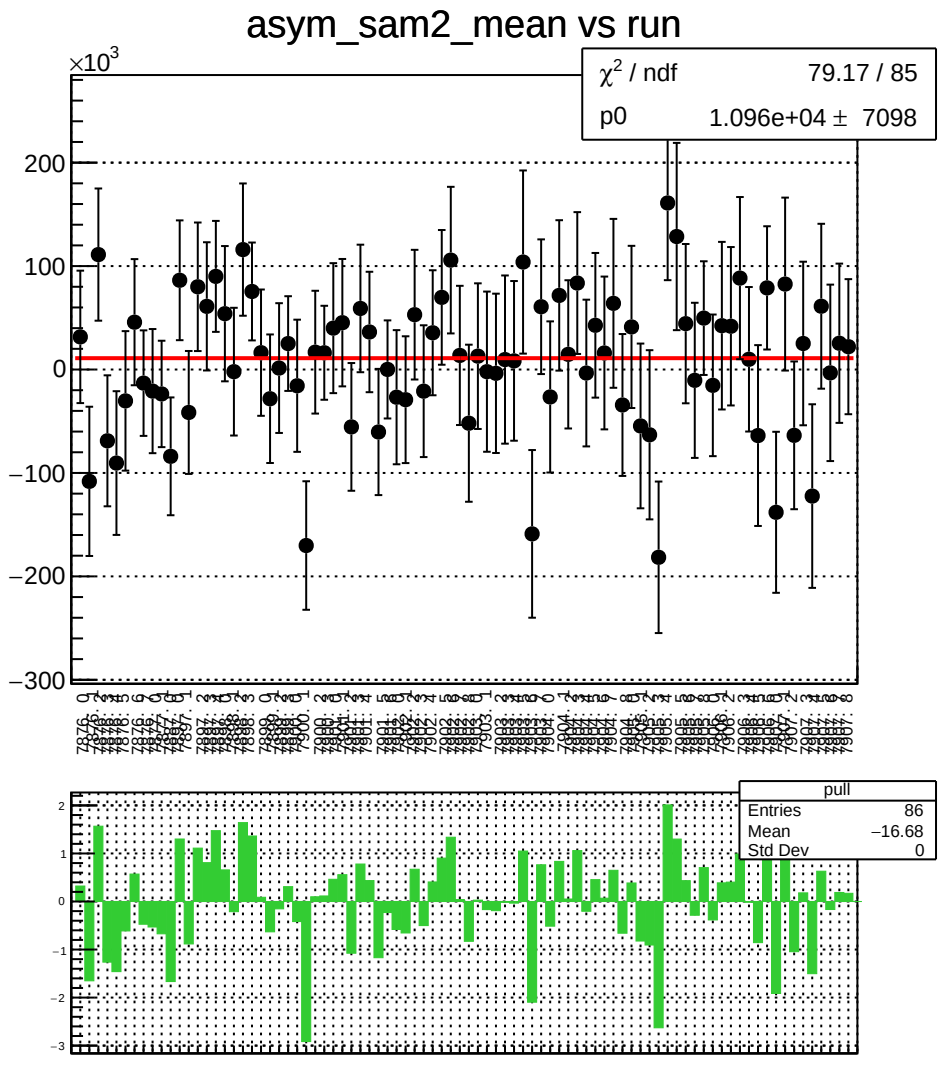

pull1D
Entries 86
Mean 0.008867
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

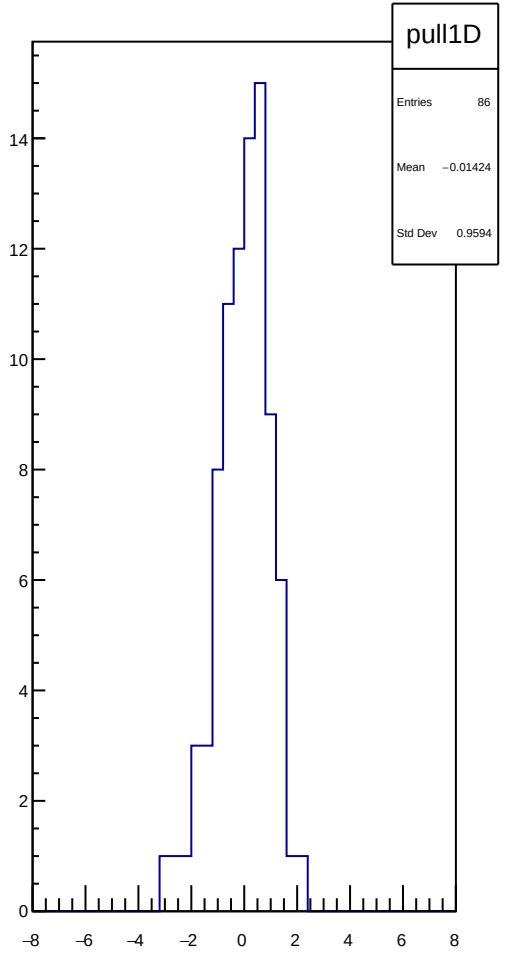

eigen_dit_asym_sam2_rms vs run
χ^2 / ndf 1.254e+04 / 85
p0 469.8 ± 0.363
600
550
500
450
400

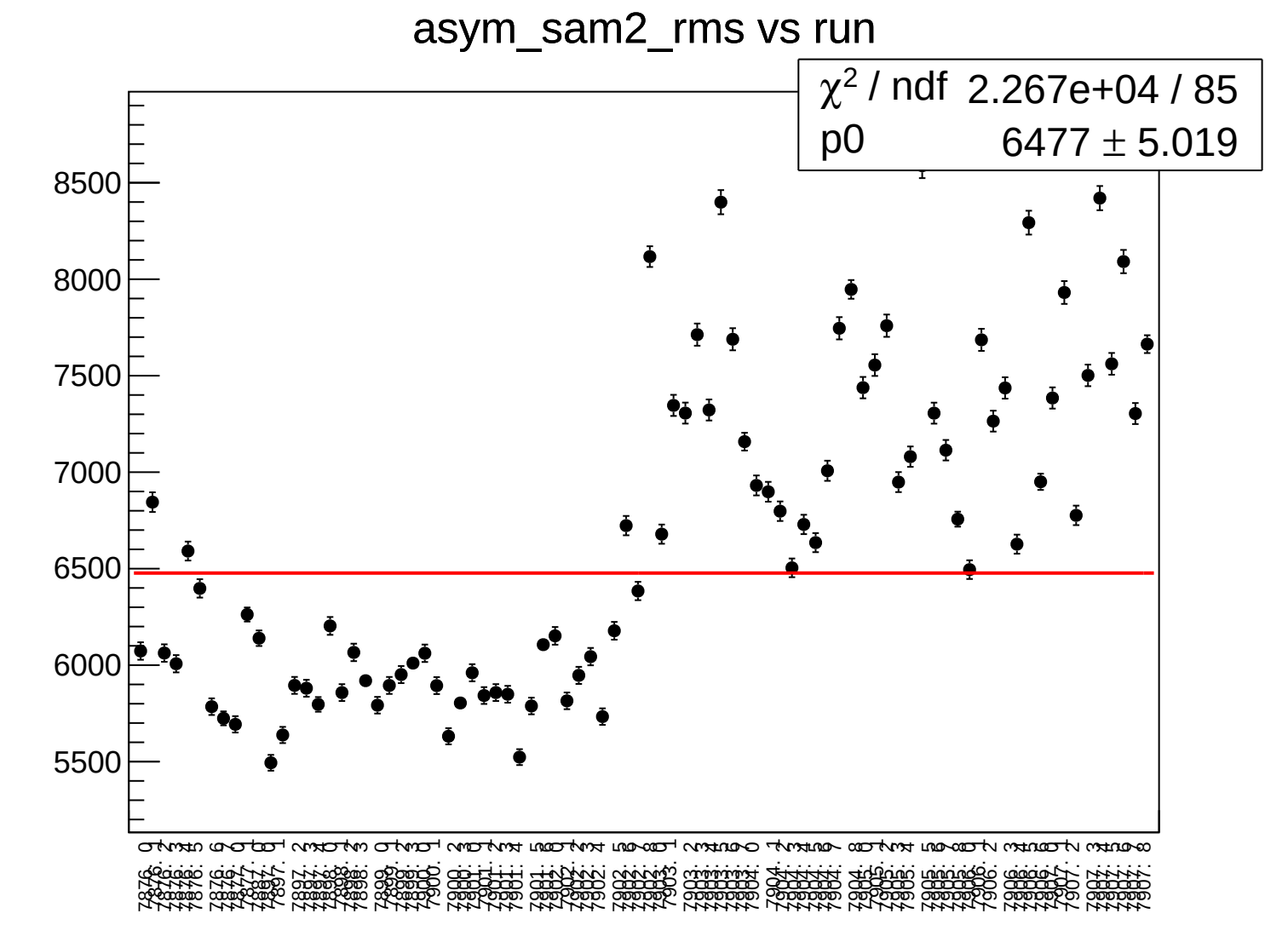

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.01 / 85
p0 −1.124e+04 ± 7269
pull
Entries 86
Mean −28.62
Std Dev 0

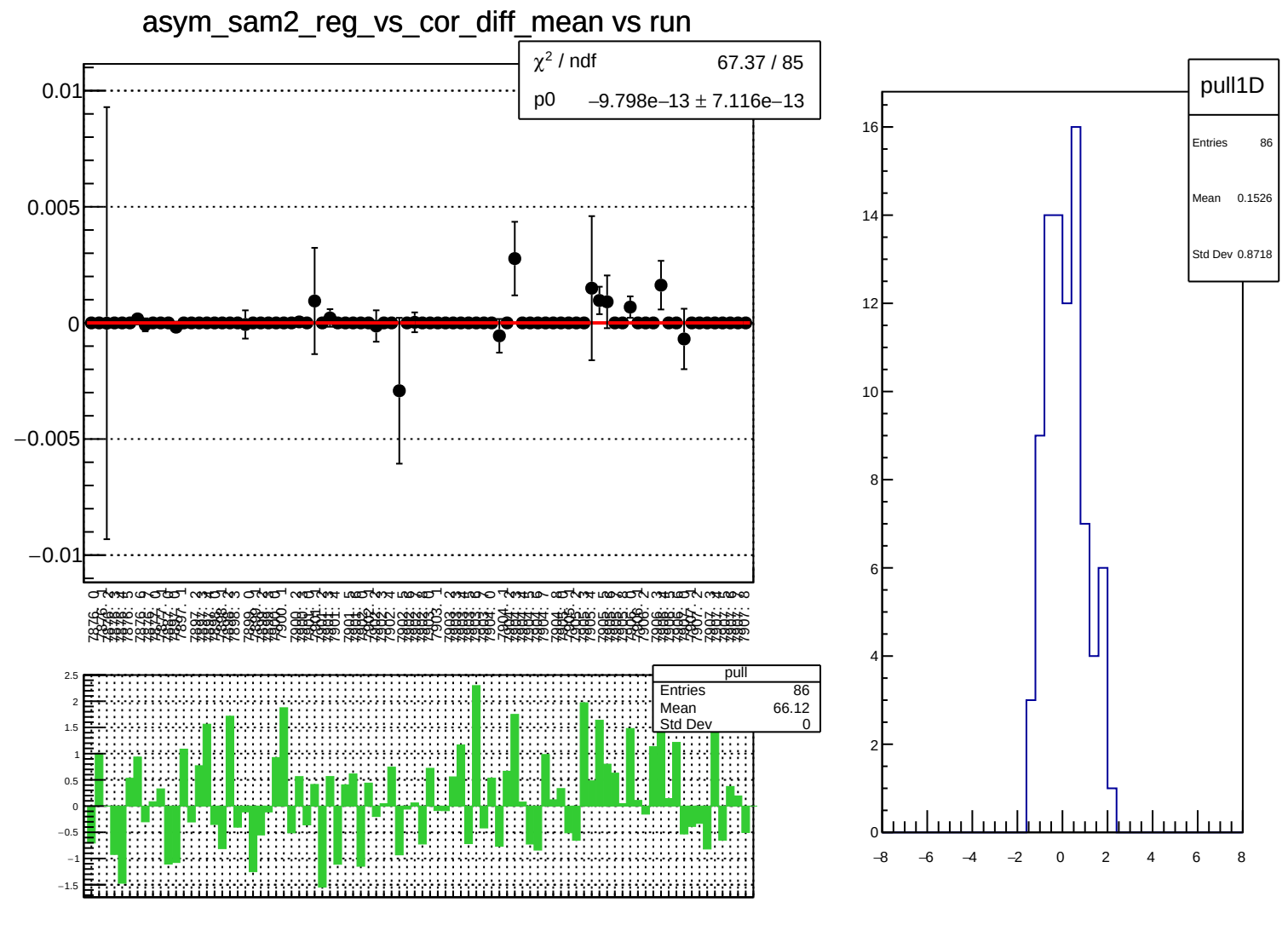

pull1D
Entries 86
Mean 0.01433
Std Dev 0.9584

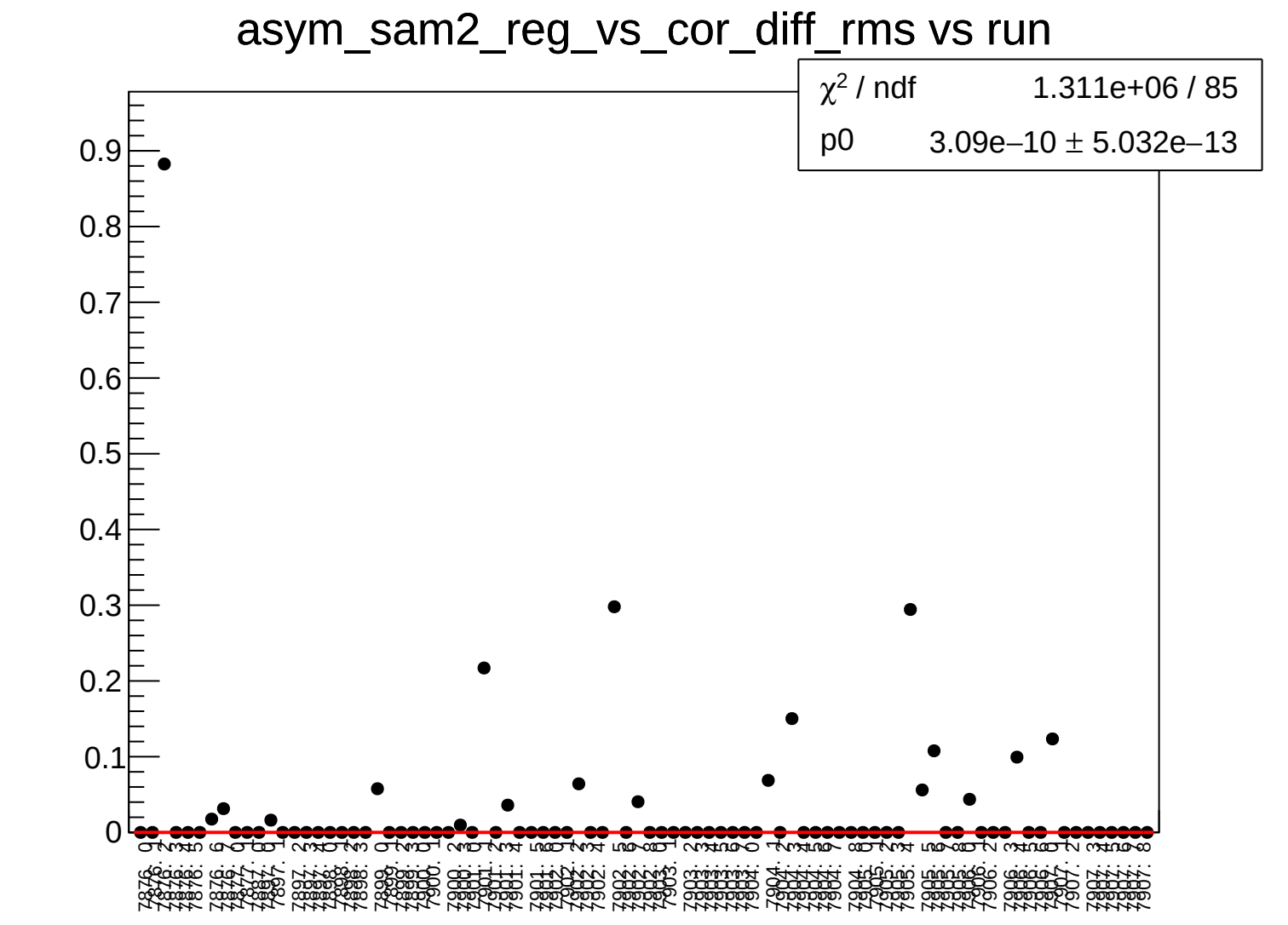

asym_sam2_eigen_dit_correction_rms vs run
χ^2 / ndf 2.2e+04 / 85
p0 6635 ± 5.14
9000
8500
8000
7500
7000
6500
6000
5500

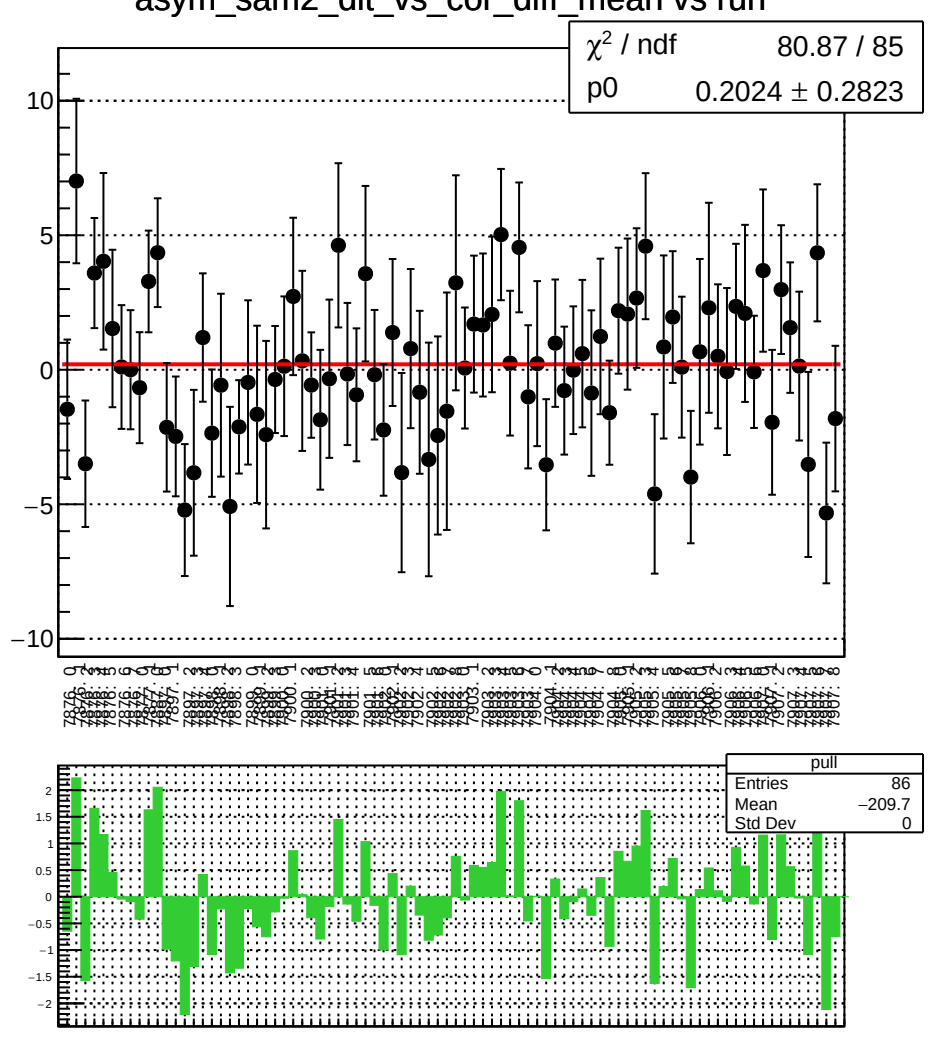

asym_sam2_mean vs run
×10^3
χ² / ndf 79.17 / 85
p0 1.096e+04 ± 7098
200
100
0
−100
−200
−300
pull
Entries 86
Mean −16.68
Std Dev 0
2
1
0
−1
−2
−3

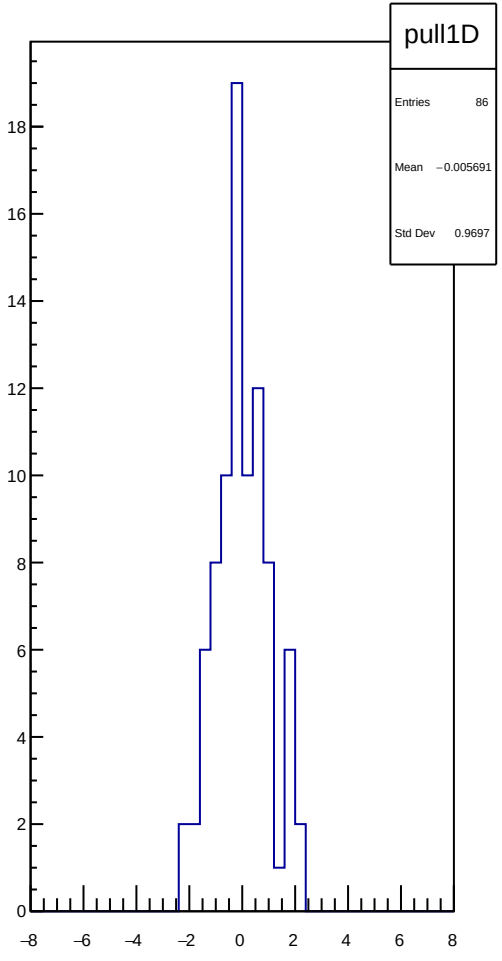

pull1D
Entries 86
Mean −0.01424
Std Dev 0.9594
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

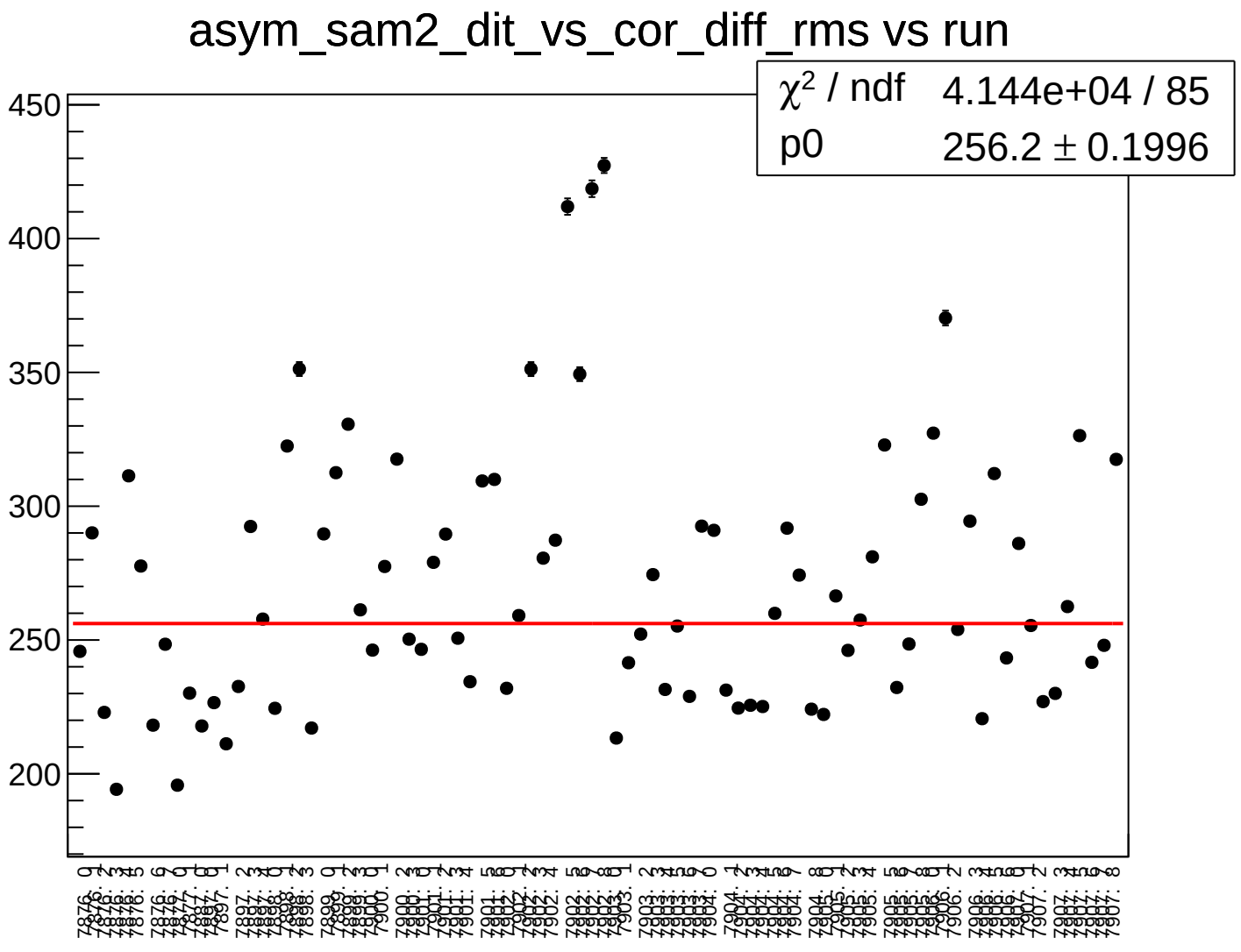

asym_sam2_rms vs run
χ^2 / ndf 2.267e+04 / 85
p0 6477 ± 5.019
8500
8000
7500
7000
6500
6000
5500

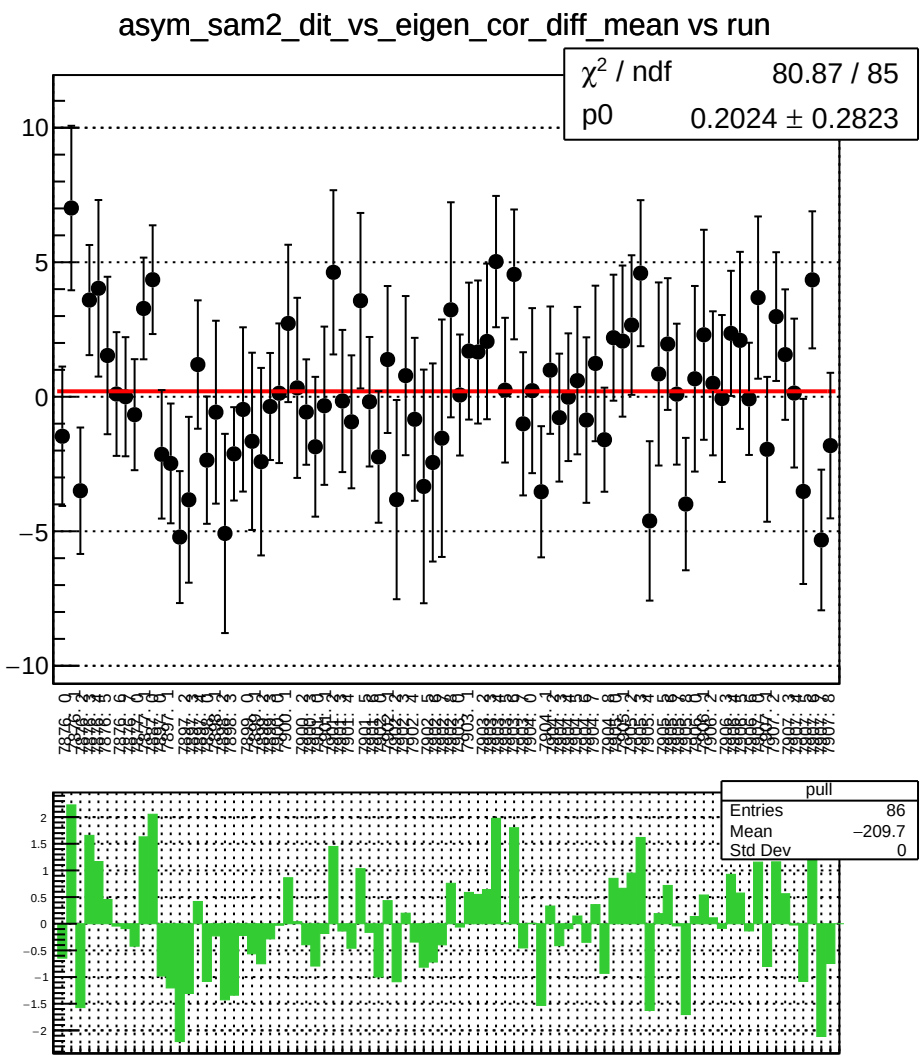

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 67.37 / 85
p0 −9.798e−13 ± 7.116e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean 66.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.1526
Std Dev 0.8718
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

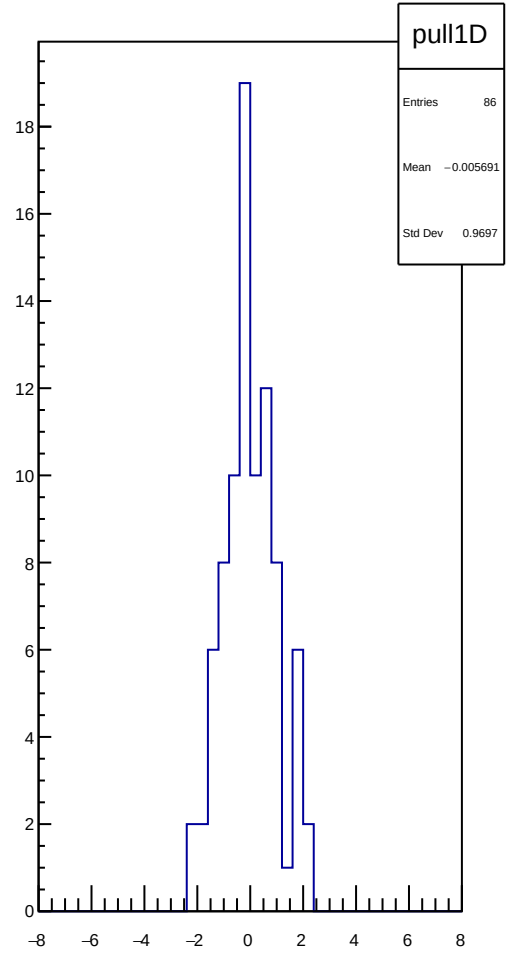

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.311e+06 / 85
p0 3.09e−10 ± 5.032e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

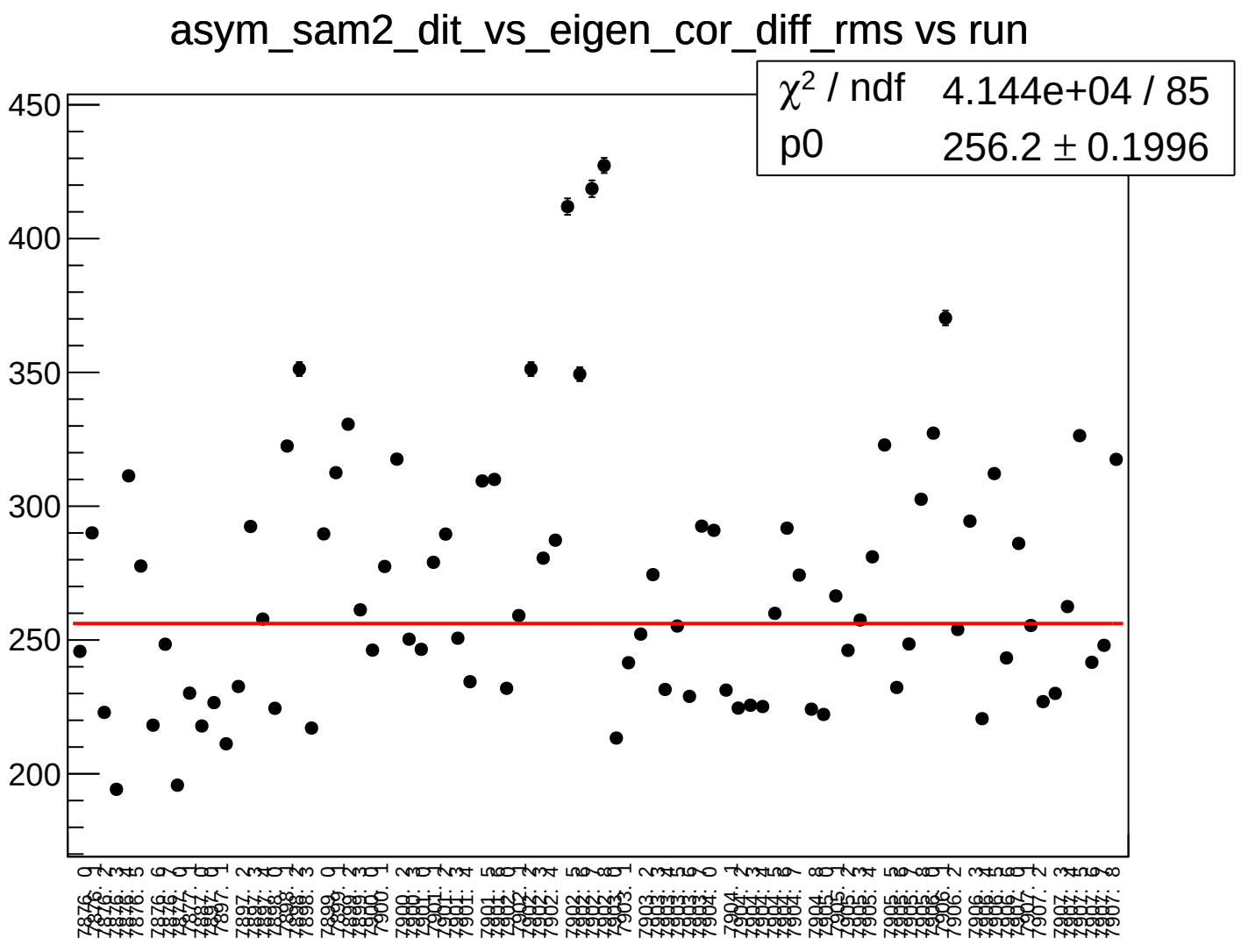

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 80.87 / 85
p0 0.2024 ± 0.2823
pull
Entries 86
Mean −209.7
Std Dev 0

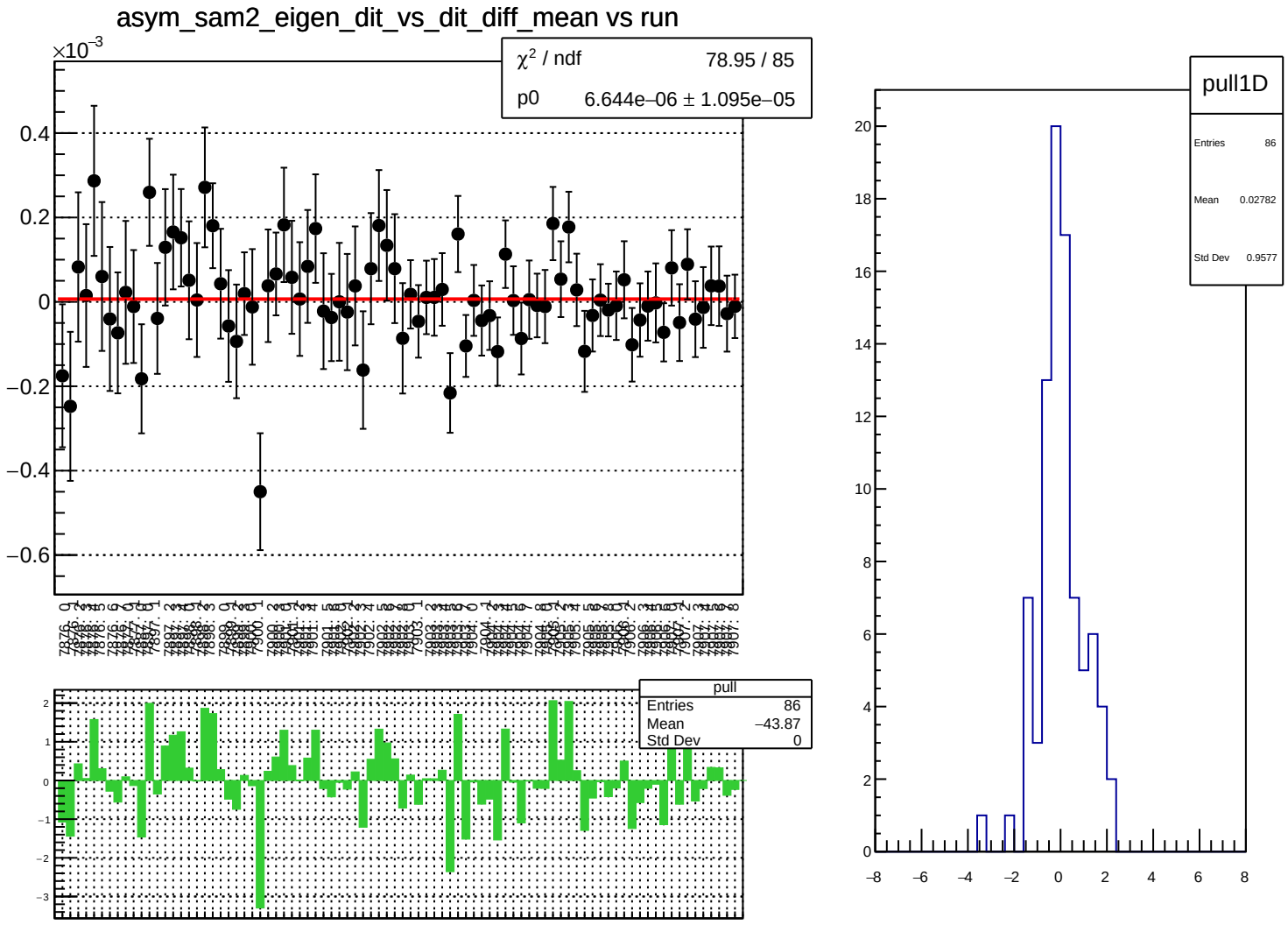

pull1D
Entries 86
Mean −0.005691
Std Dev 0.9697

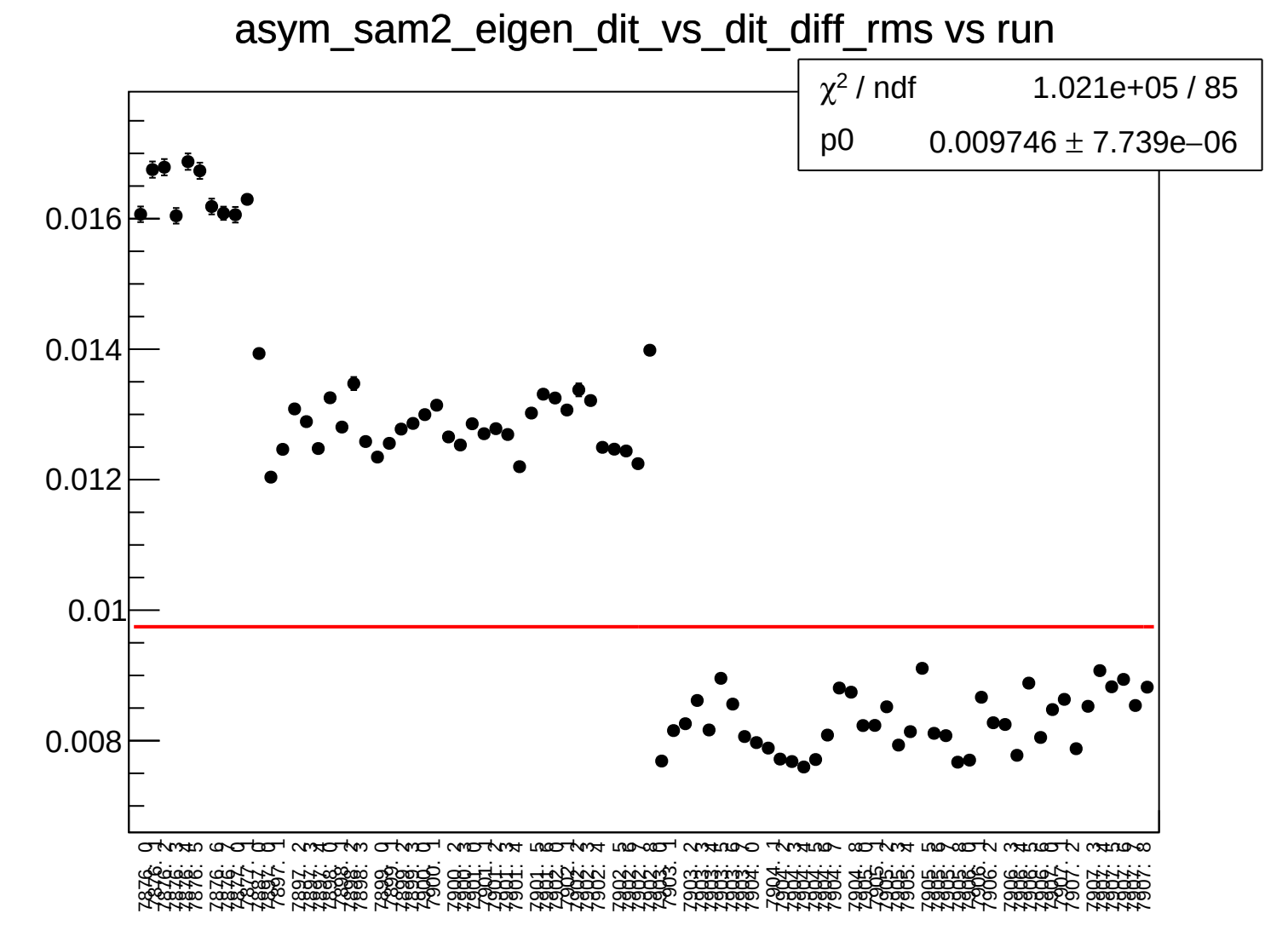

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.144e+04 / 85
p0 256.2 ± 0.1996
450
400
350
300
250
200

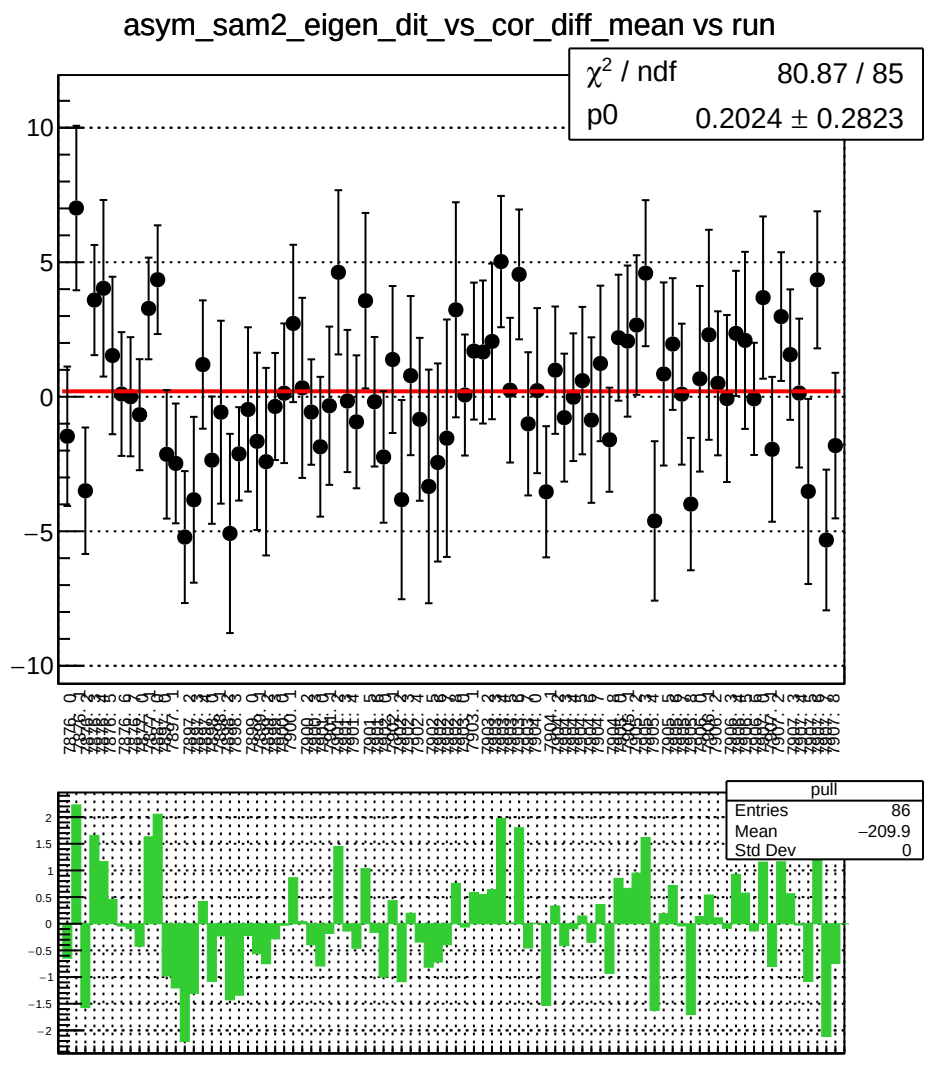

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.87 / 85
p0 0.2024 ± 0.2823
pull
Entries 86
Mean −209.7
Std Dev 0

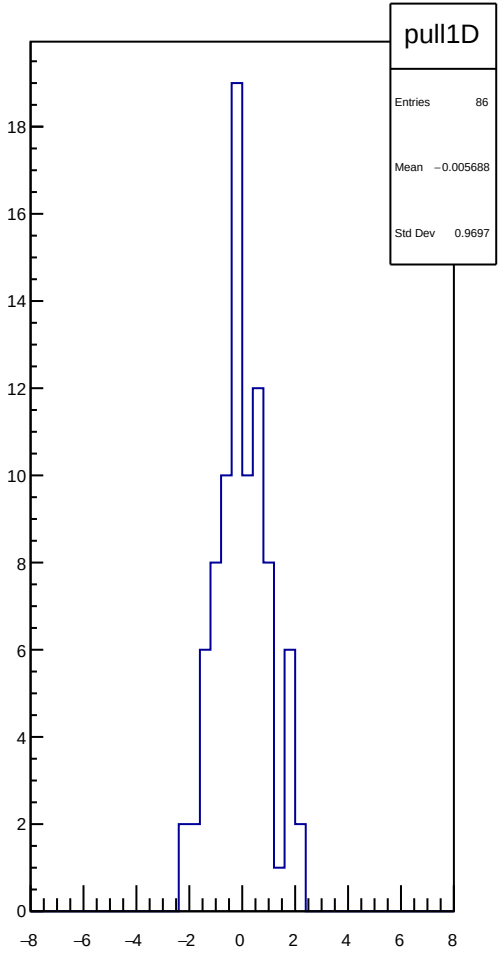

pull1D
Entries 86
Mean −0.005691
Std Dev 0.9697

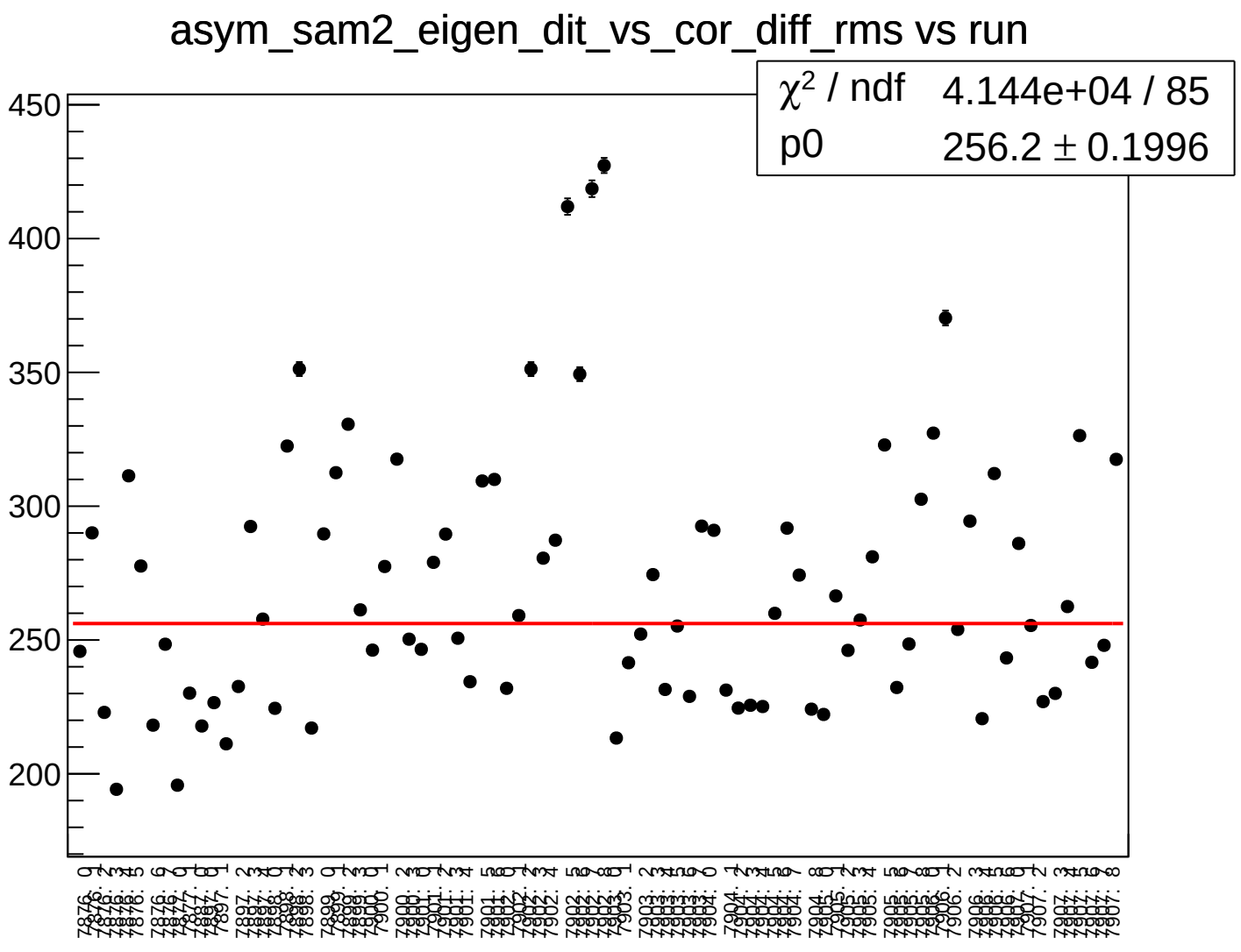

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.144e+04 / 85
p0 256.2 ± 0.1996
450
400
350
300
250
200

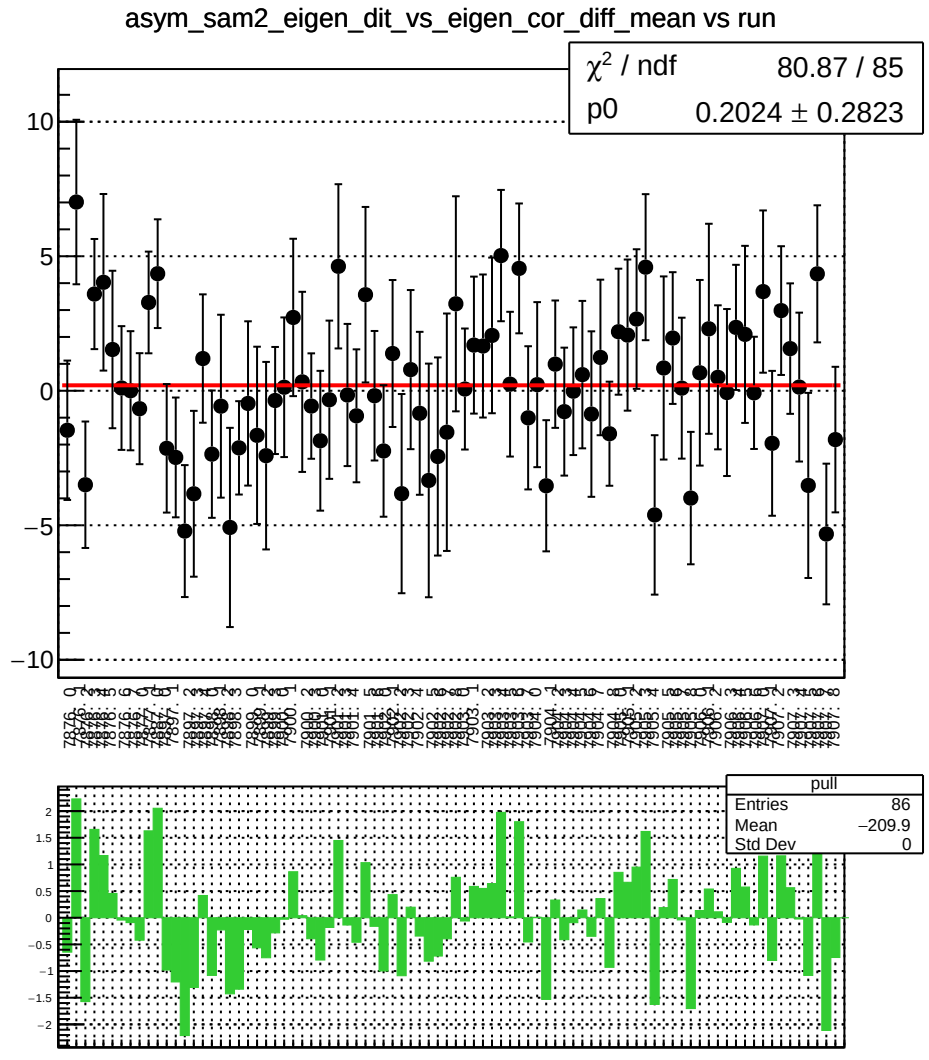

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 78.95 / 85
p0 6.644e−06 ± 1.095e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 86
Mean −43.87
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.02782
Std Dev 0.9577
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

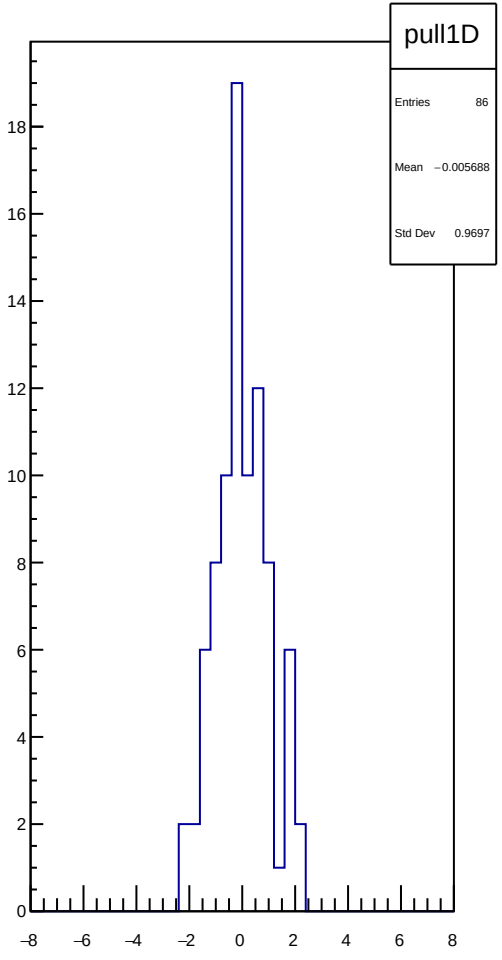

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.021e+05 / 85
p0 0.009746 ± 7.739e−06
0.016
0.014
0.012
0.01
0.008

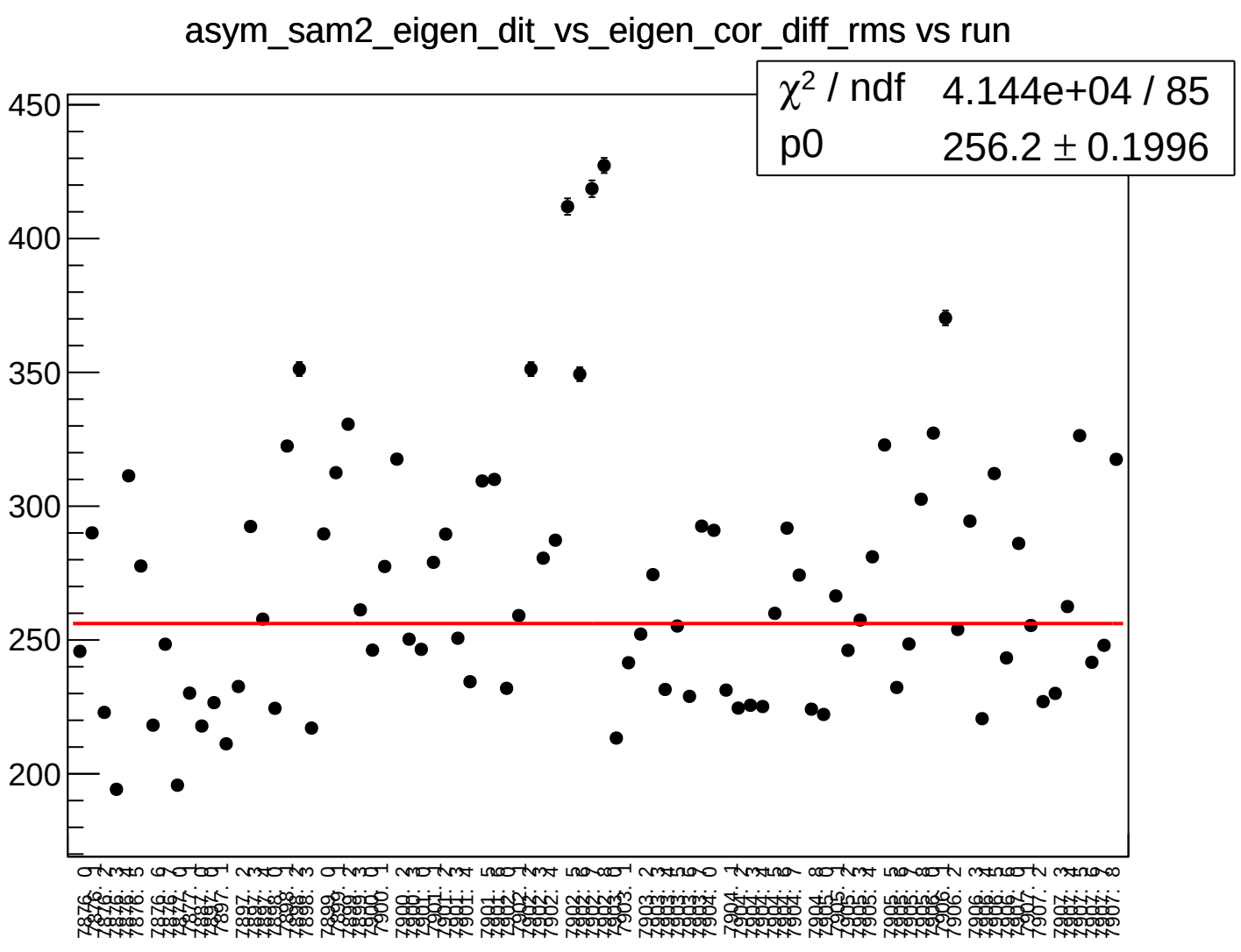

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.87 / 85
p0 0.2024 ± 0.2823
pull
Entries 86
Mean −209.9
Std Dev 0

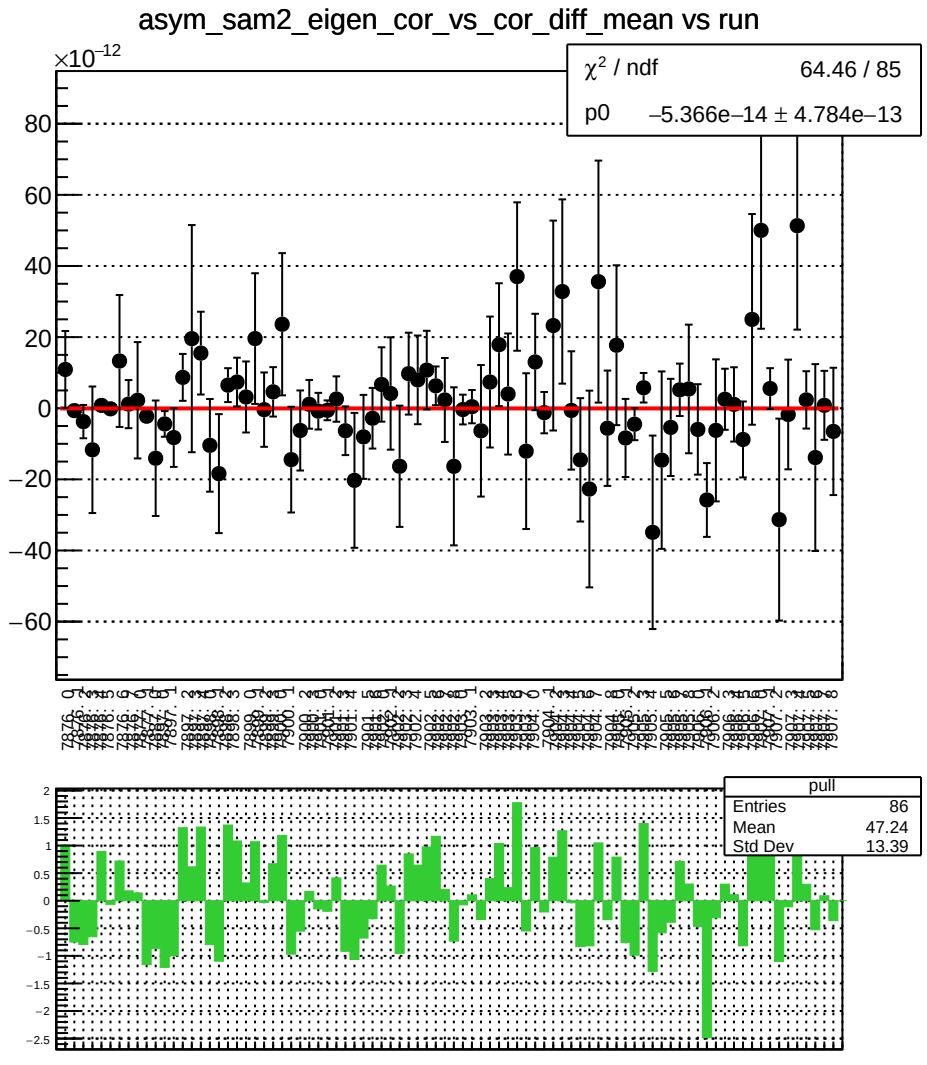

pull1D
Entries 86
Mean −0.005688
Std Dev 0.9697

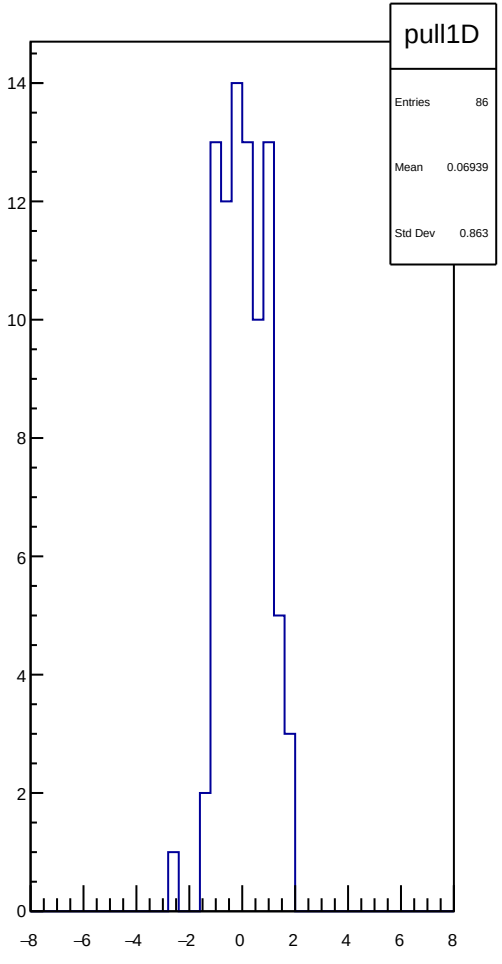

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.144e+04 / 85
p0 256.2 ± 0.1996
450
400
350
300
250
200

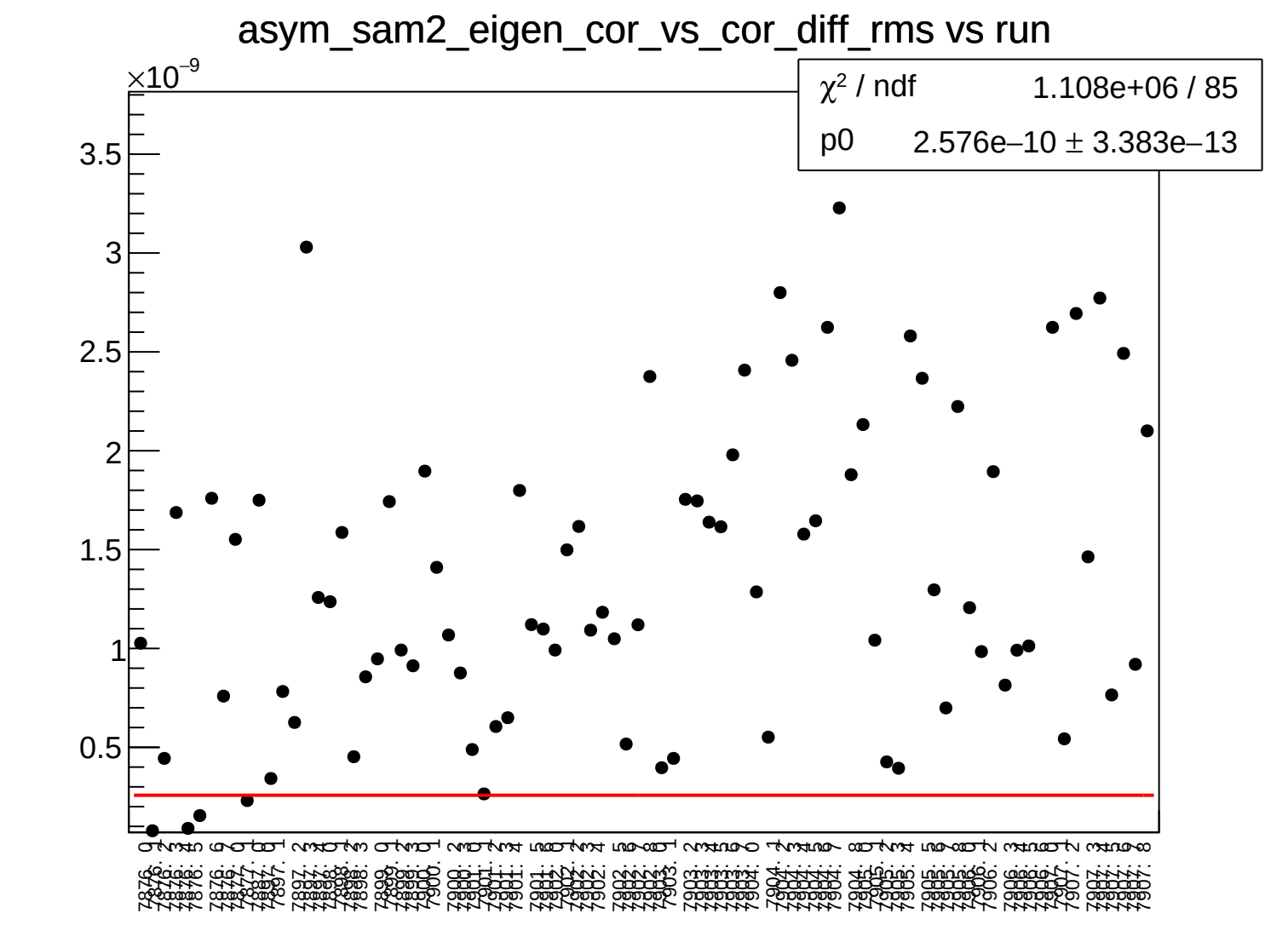

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.87 / 85
p0 0.2024 ± 0.2823
pull
Entries 86
Mean −209.9
Std Dev 0

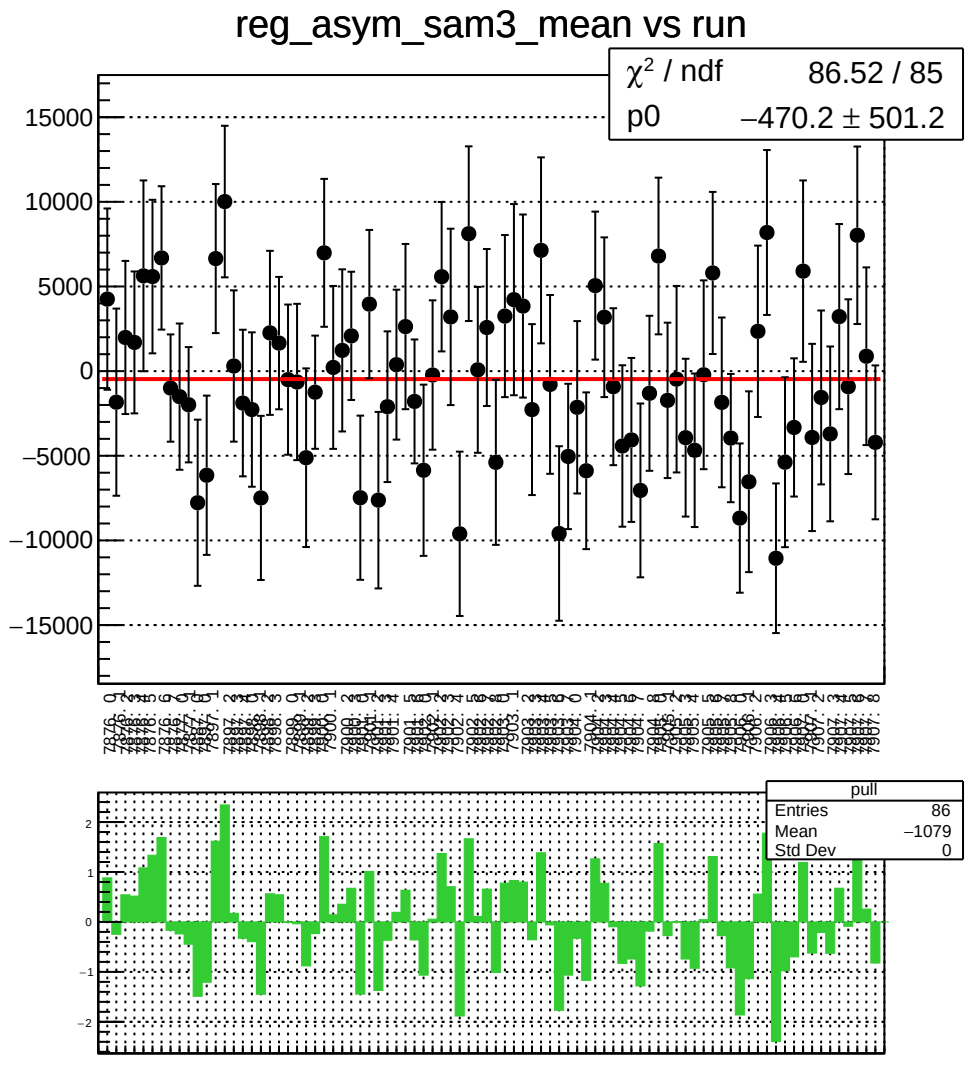

pull1D
Entries 86
Mean −0.005688
Std Dev 0.9697

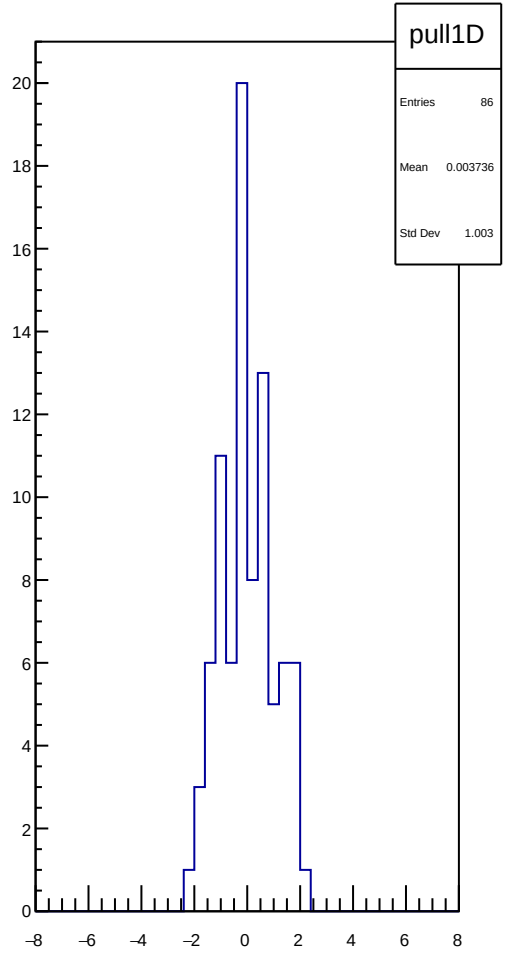

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.144e+04 / 85
p0 256.2 ± 0.1996
450
400
350
300
250
200

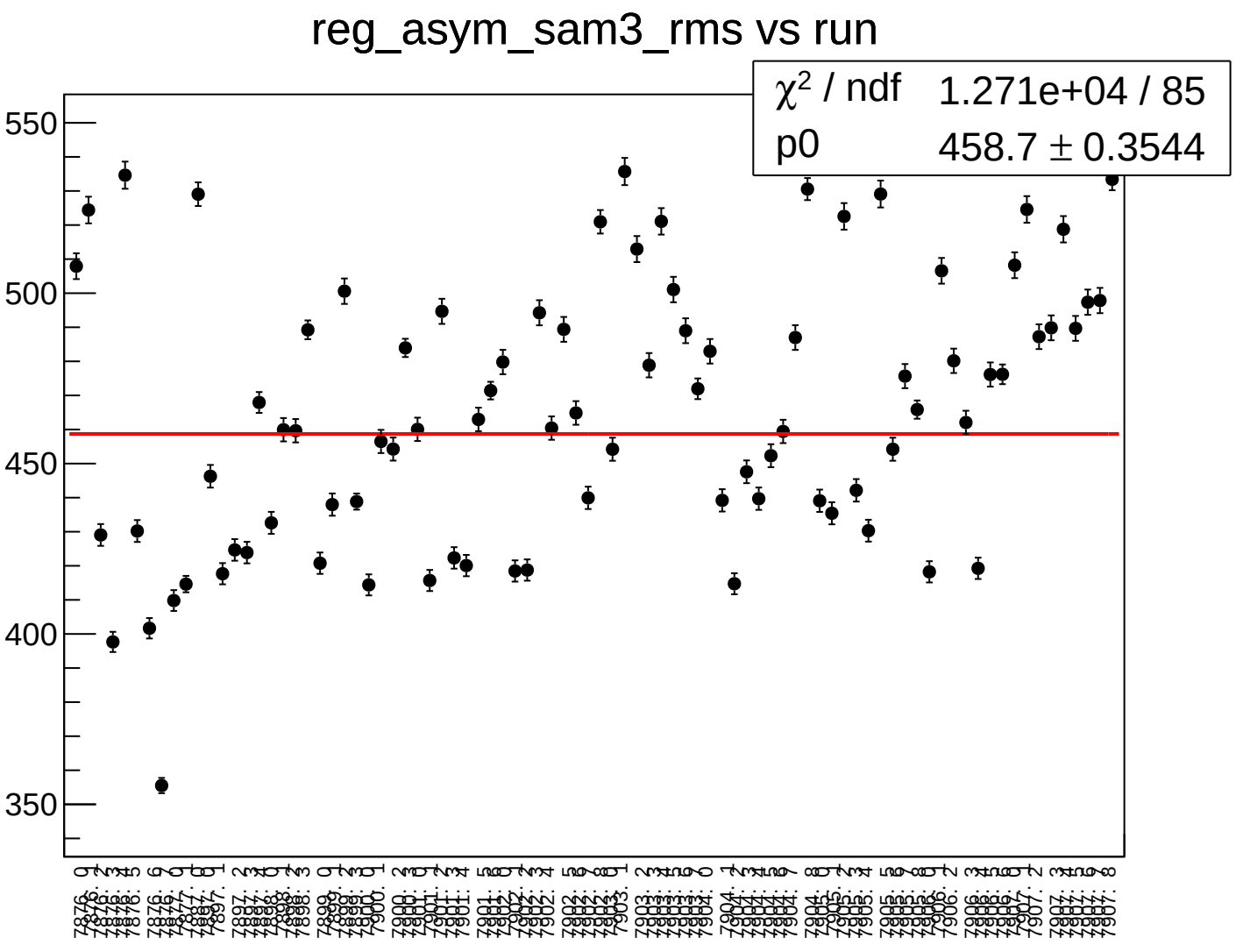

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.46 / 85
p0 −5.366e−14 ± 4.784e−13
pull
Entries 86
Mean 47.24
Std Dev 13.39

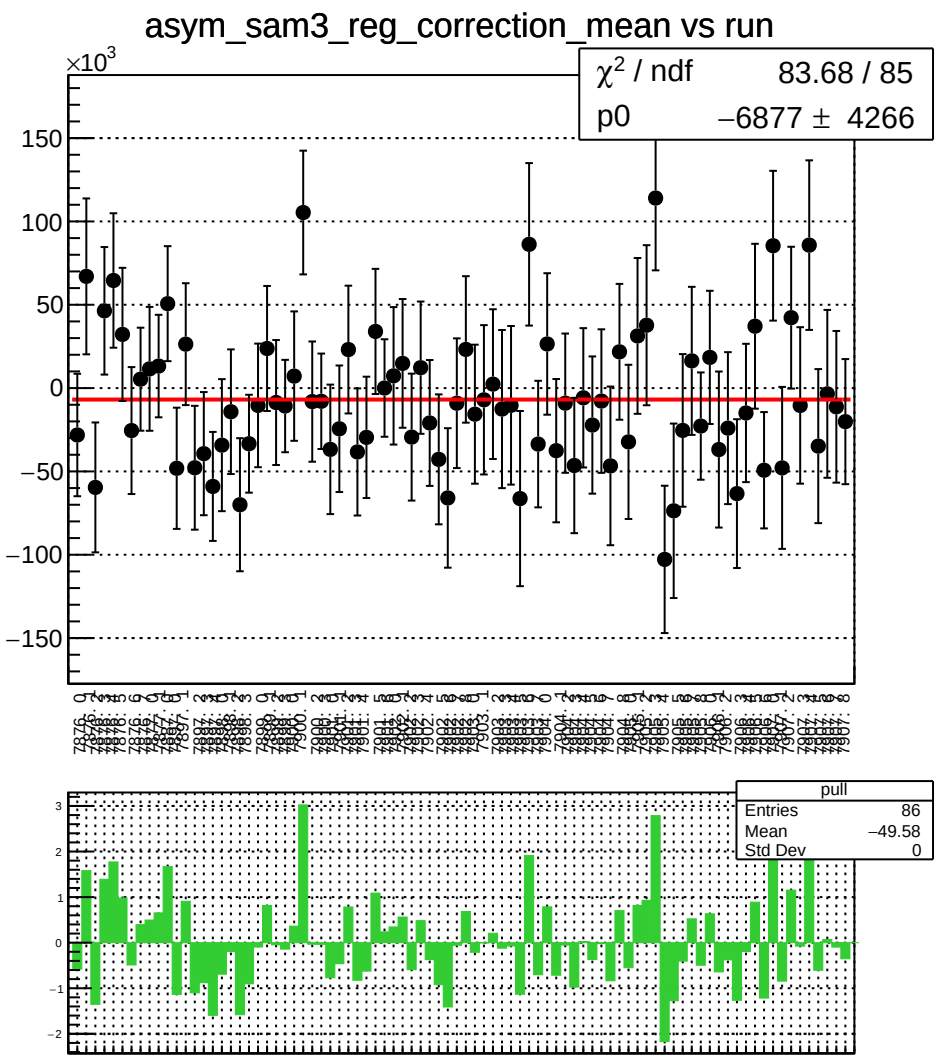

pull1D
Entries 86
Mean 0.06939
Std Dev 0.863

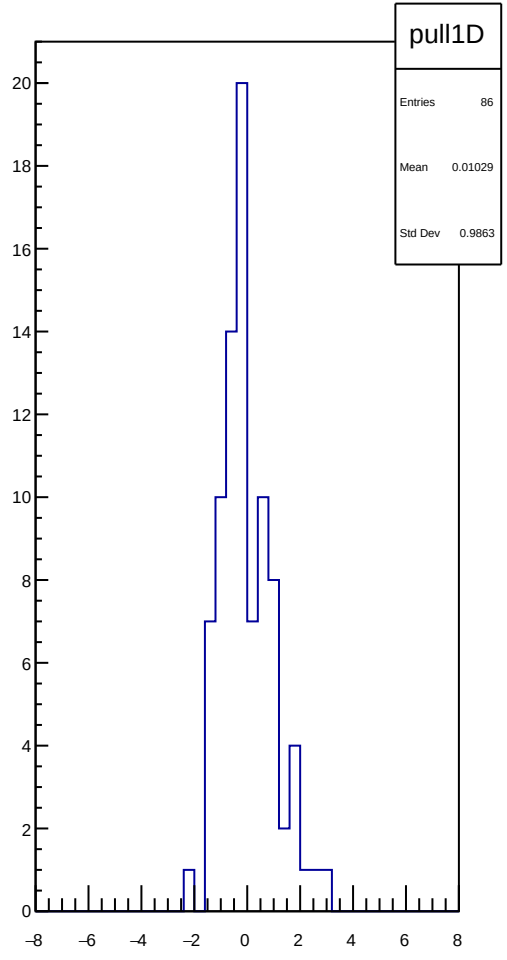

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.108e+06 / 85
p0 2.576e−10 ± 3.383e−13
3.5
3
2.5
2
1.5
1
0.5

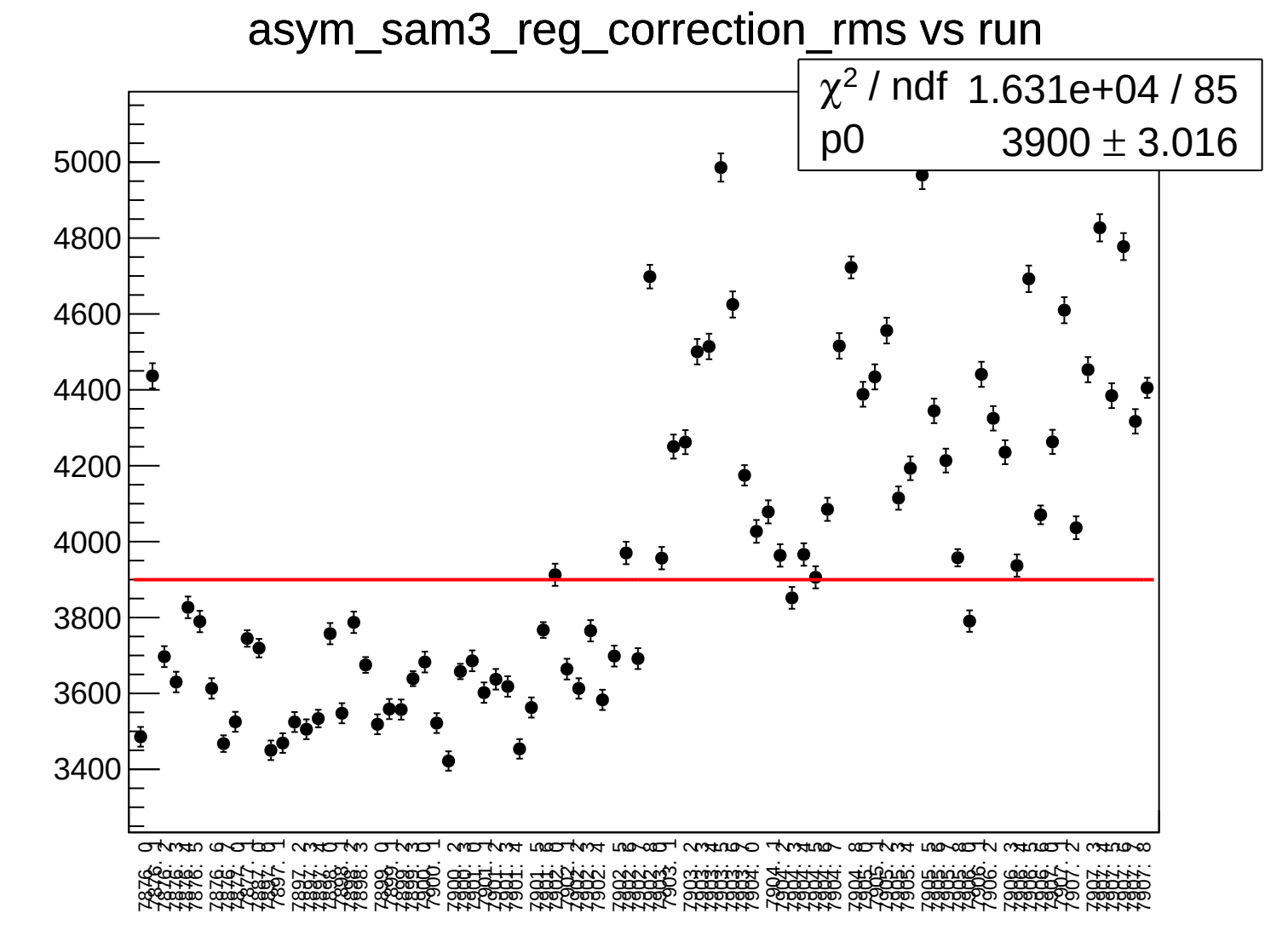

reg_asym_sam3_mean vs run
χ² / ndf 86.52 / 85
p0 −470.2 ± 501.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −1079
Std Dev 0
2
1
0
−1
−2

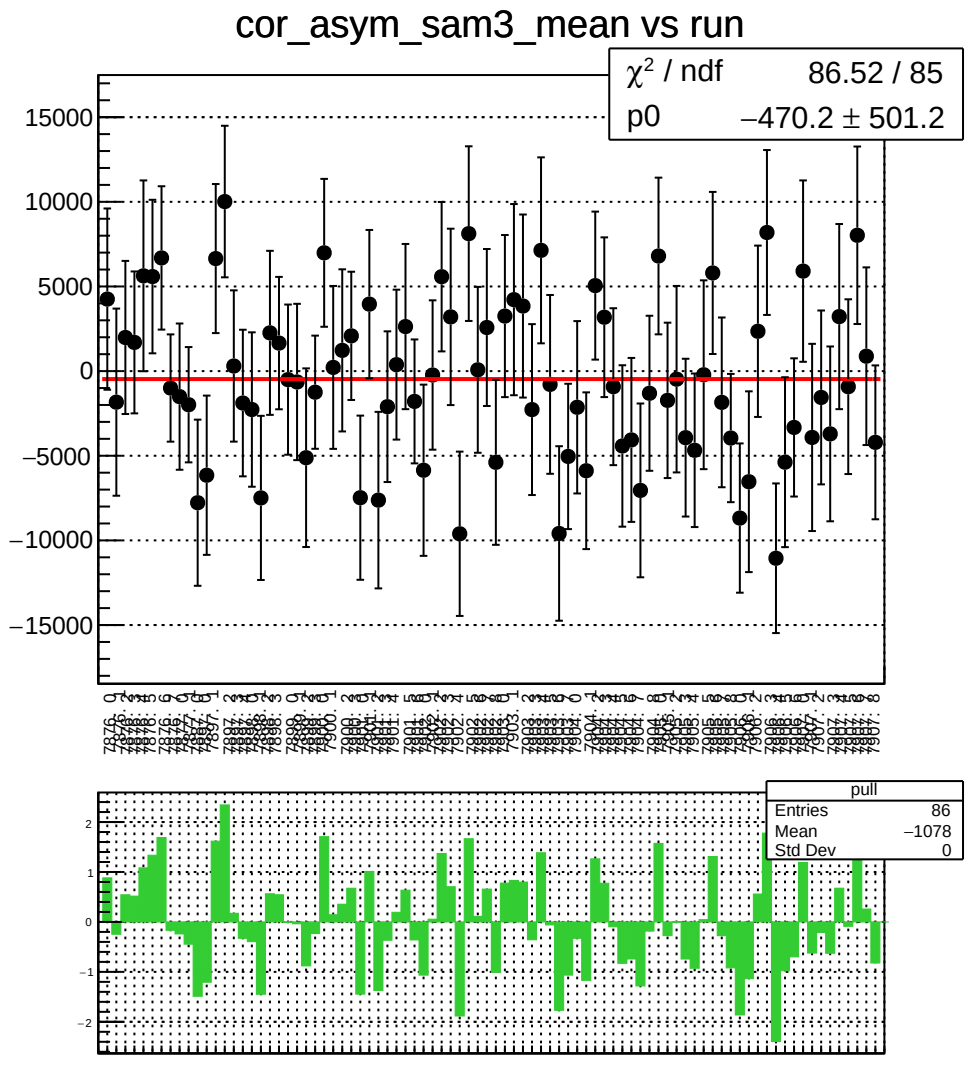

pull1D
Entries 86
Mean 0.003736
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

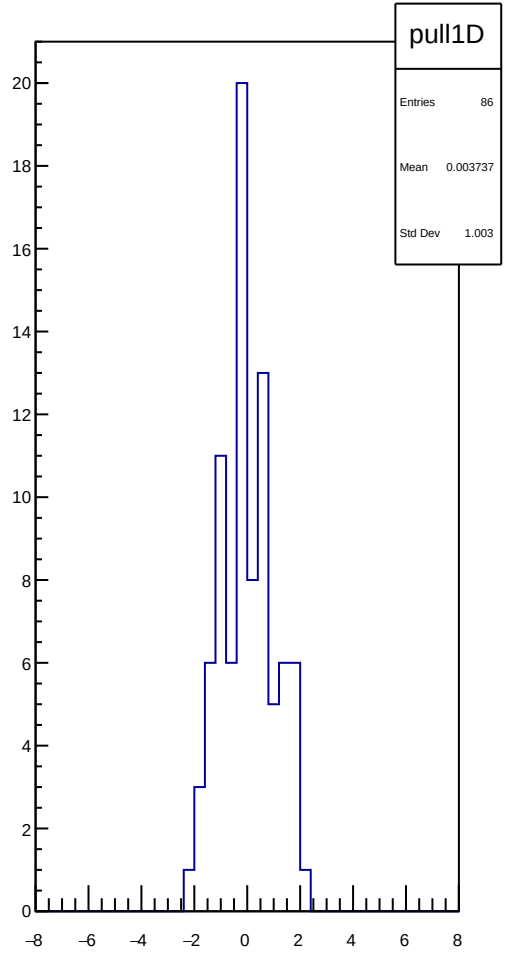

reg_asym_sam3_rms vs run
χ² / ndf 1.271e+04 / 85
p0 458.7 ± 0.3544
550
500
450
400
350

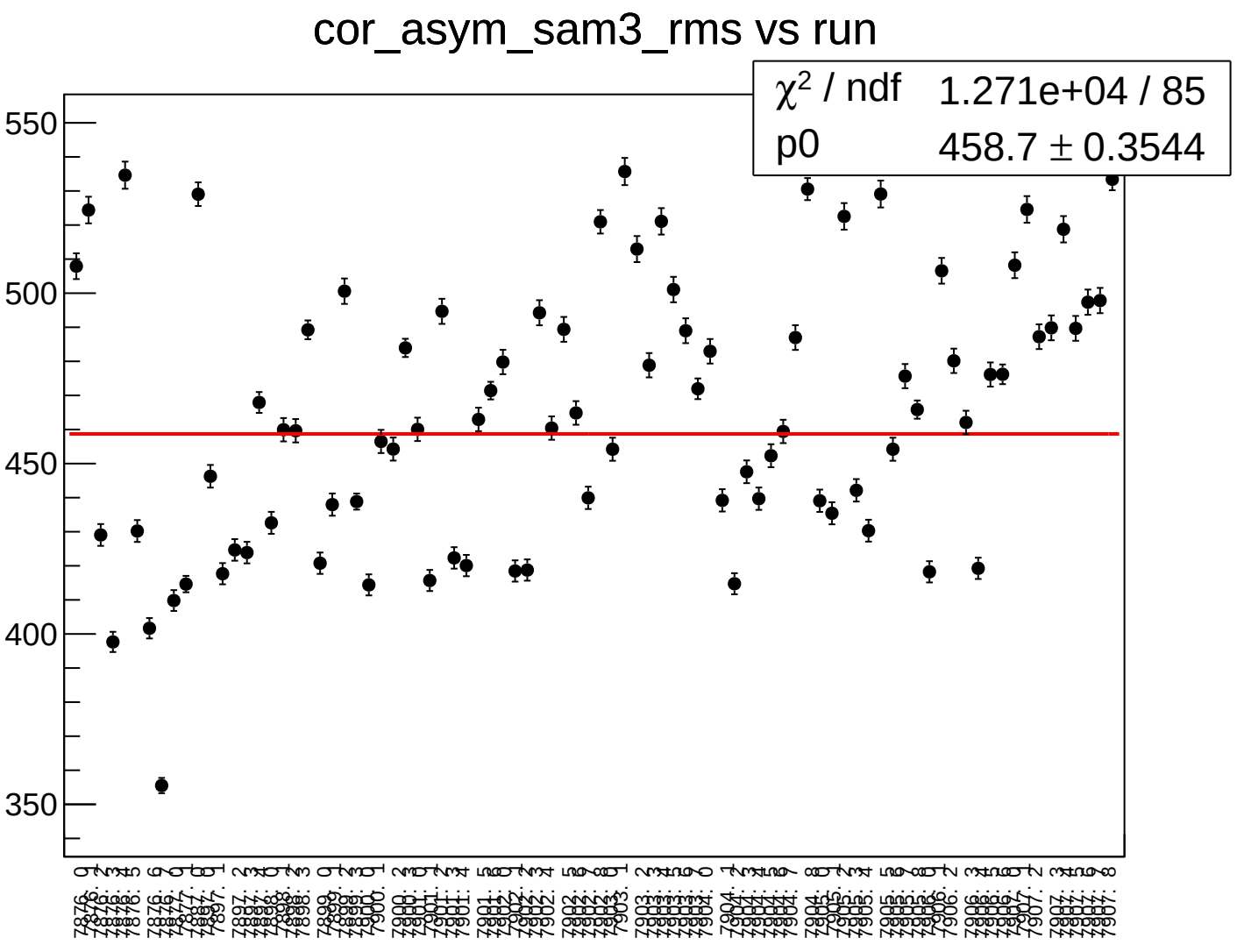

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 83.68 / 85
p0 −6877 ± 4266
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −49.58
Std Dev 0
3
2
1
0
−1
−2

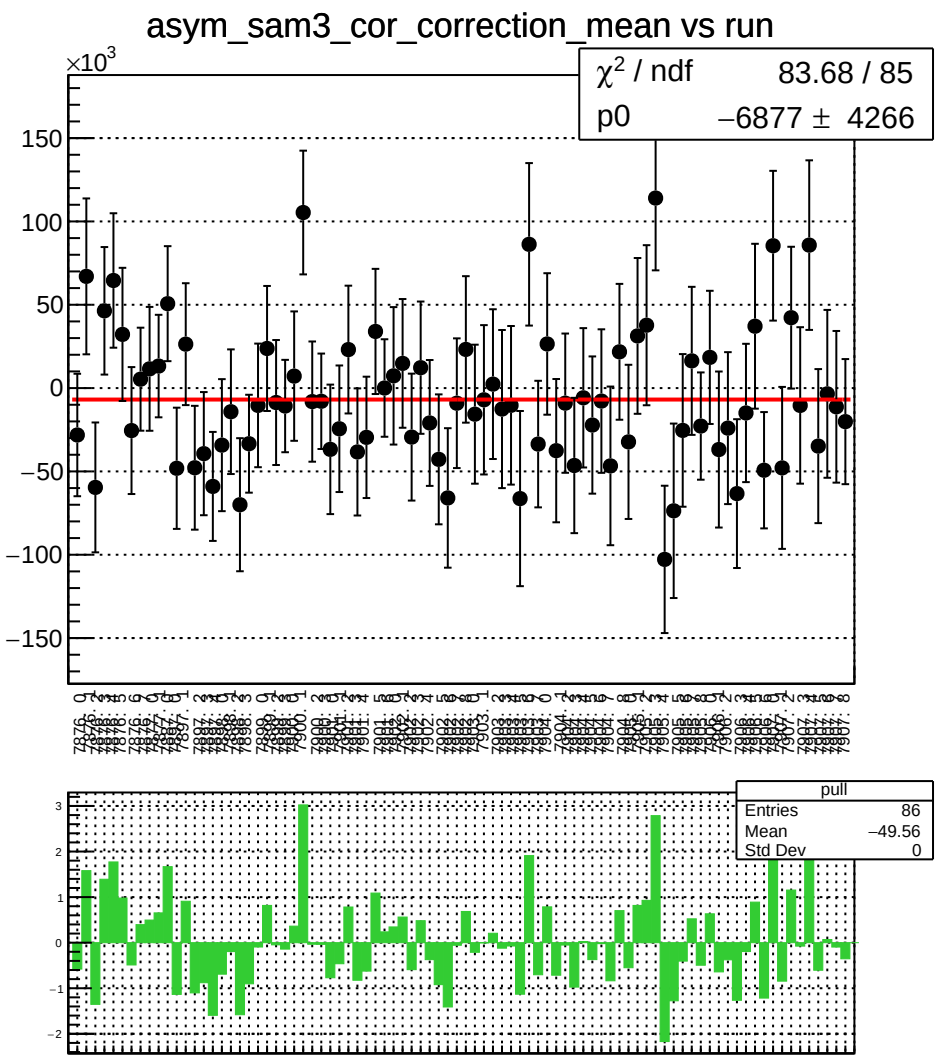

pull1D
Entries 86
Mean 0.01029
Std Dev 0.9863
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

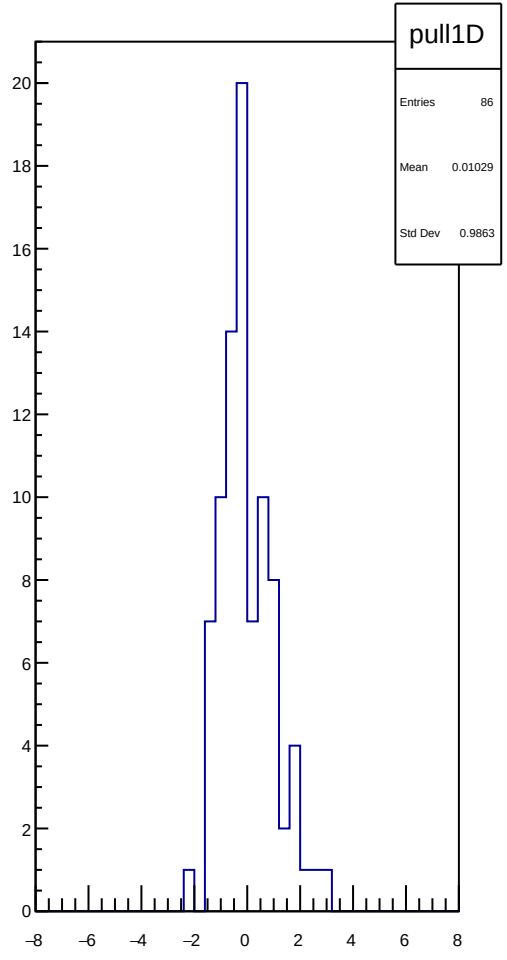

asym_sam3_reg_correction_rms vs run
χ^2 / ndf 1.631e+04 / 85
p0 3900 ± 3.016
5000
4800
4600
4400
4200
4000
3800
3600
3400

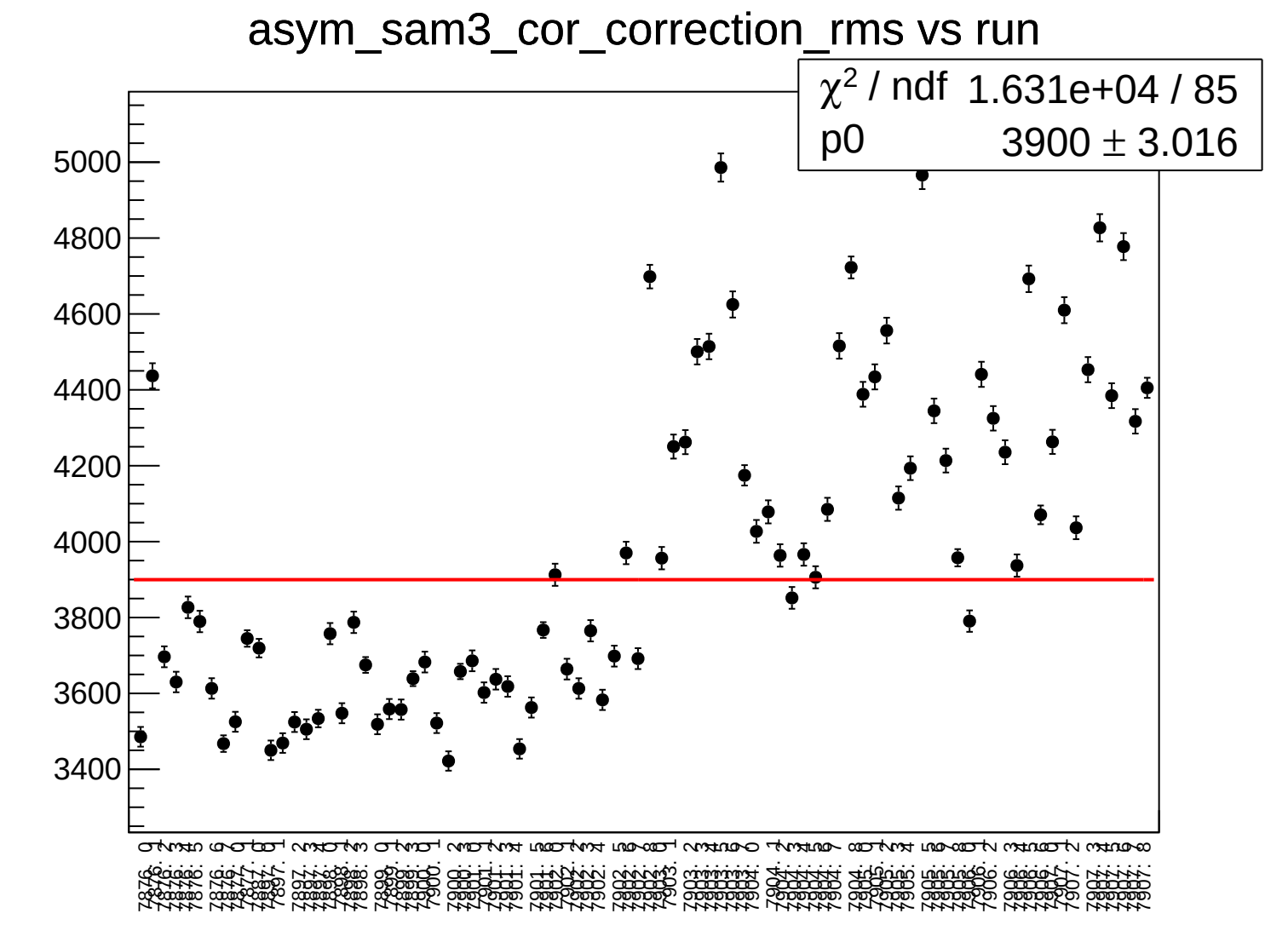

cor_asym_sam3_mean vs run
χ² / ndf 86.52 / 85
p0 −470.2 ± 501.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −1078
Std Dev 0
2
1
0
−1
−2

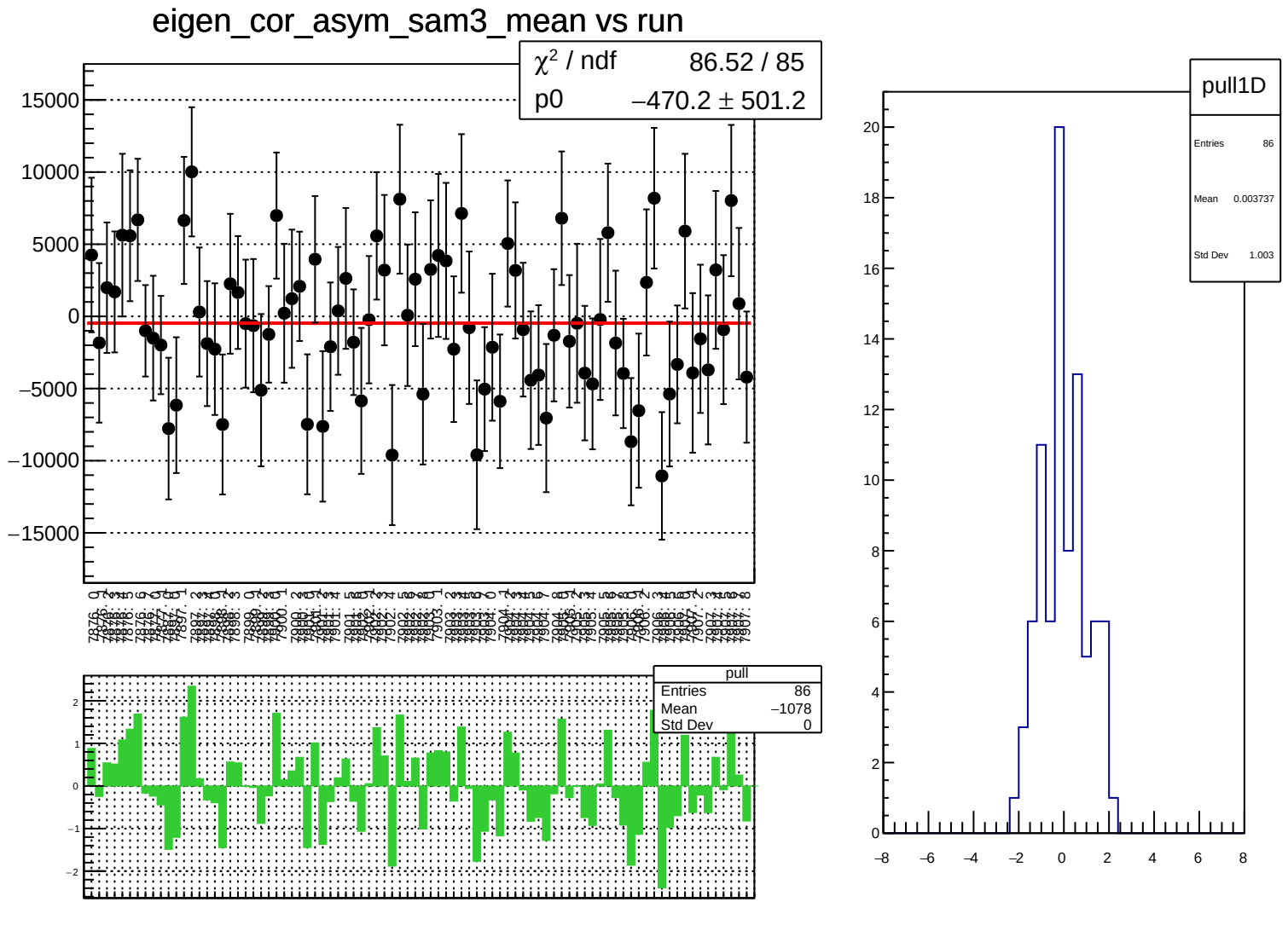

pull1D
Entries 86
Mean 0.003737
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

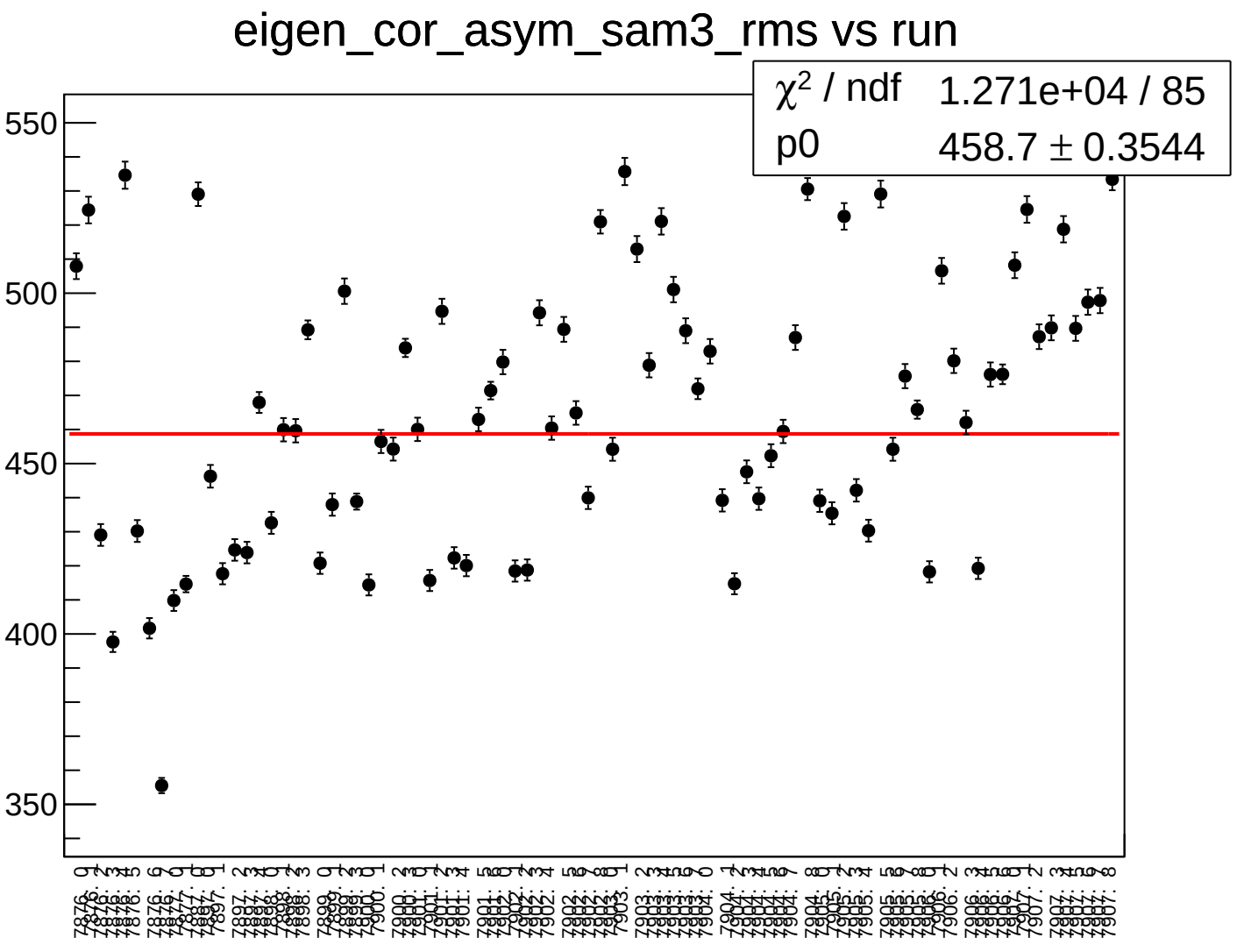

cor_asym_sam3_rms vs run
χ² / ndf 1.271e+04 / 85
p0 458.7 ± 0.3544
550
500
450
400
350

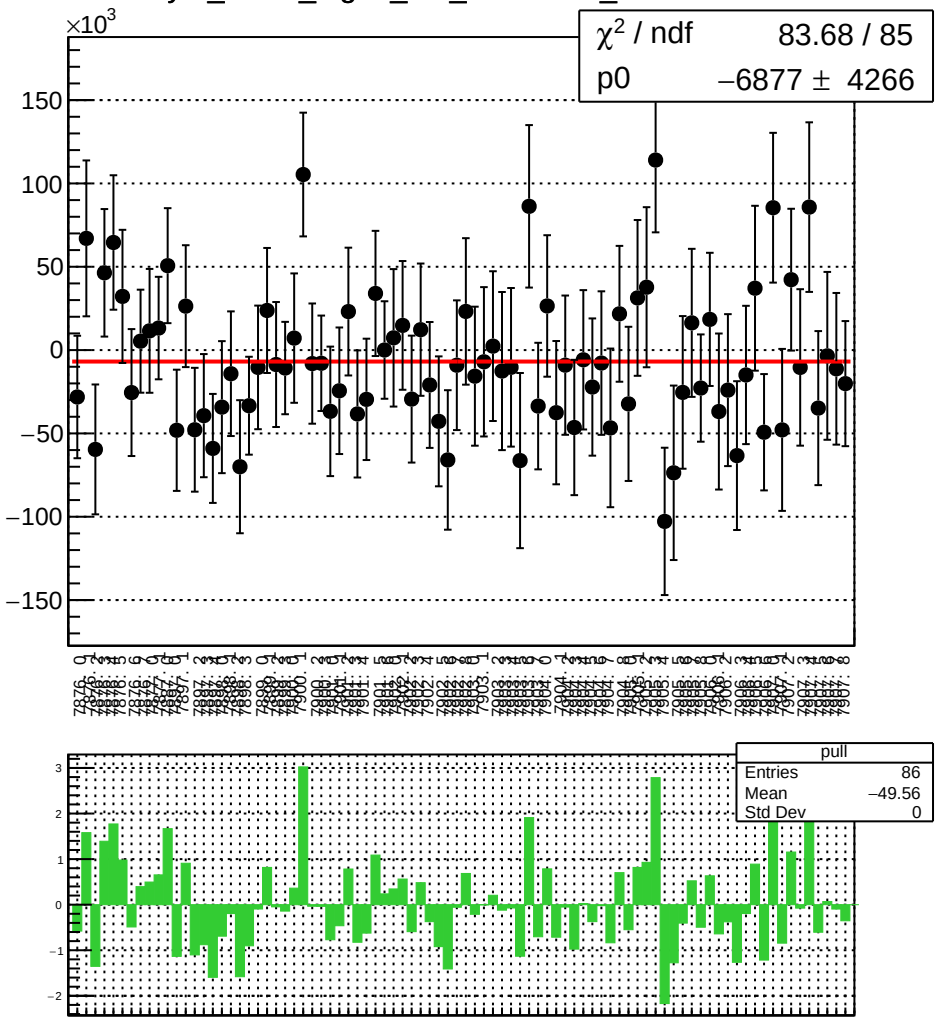

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 83.68 / 85
p0 −6877 ± 4266
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −49.56
Std Dev 0
3
2
1
0
−1
−2

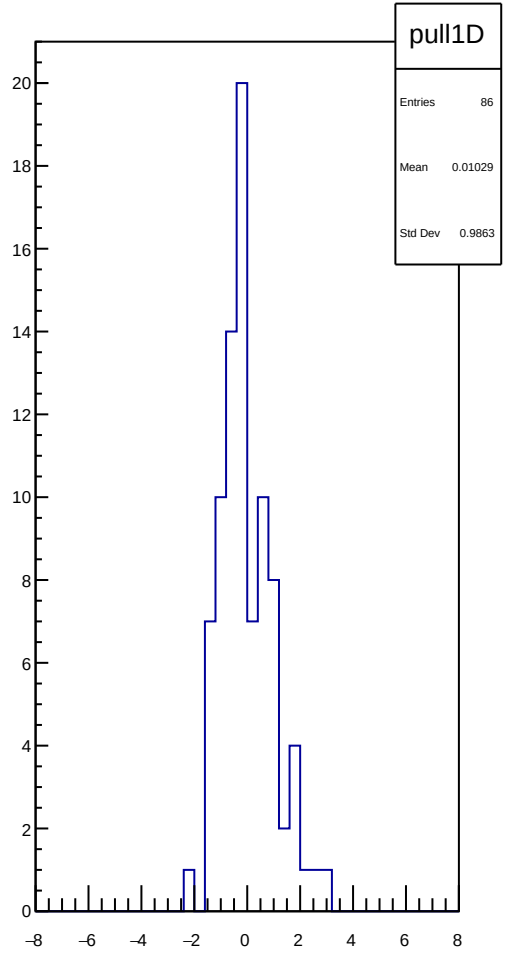

pull1D
Entries 86
Mean 0.01029
Std Dev 0.9863
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

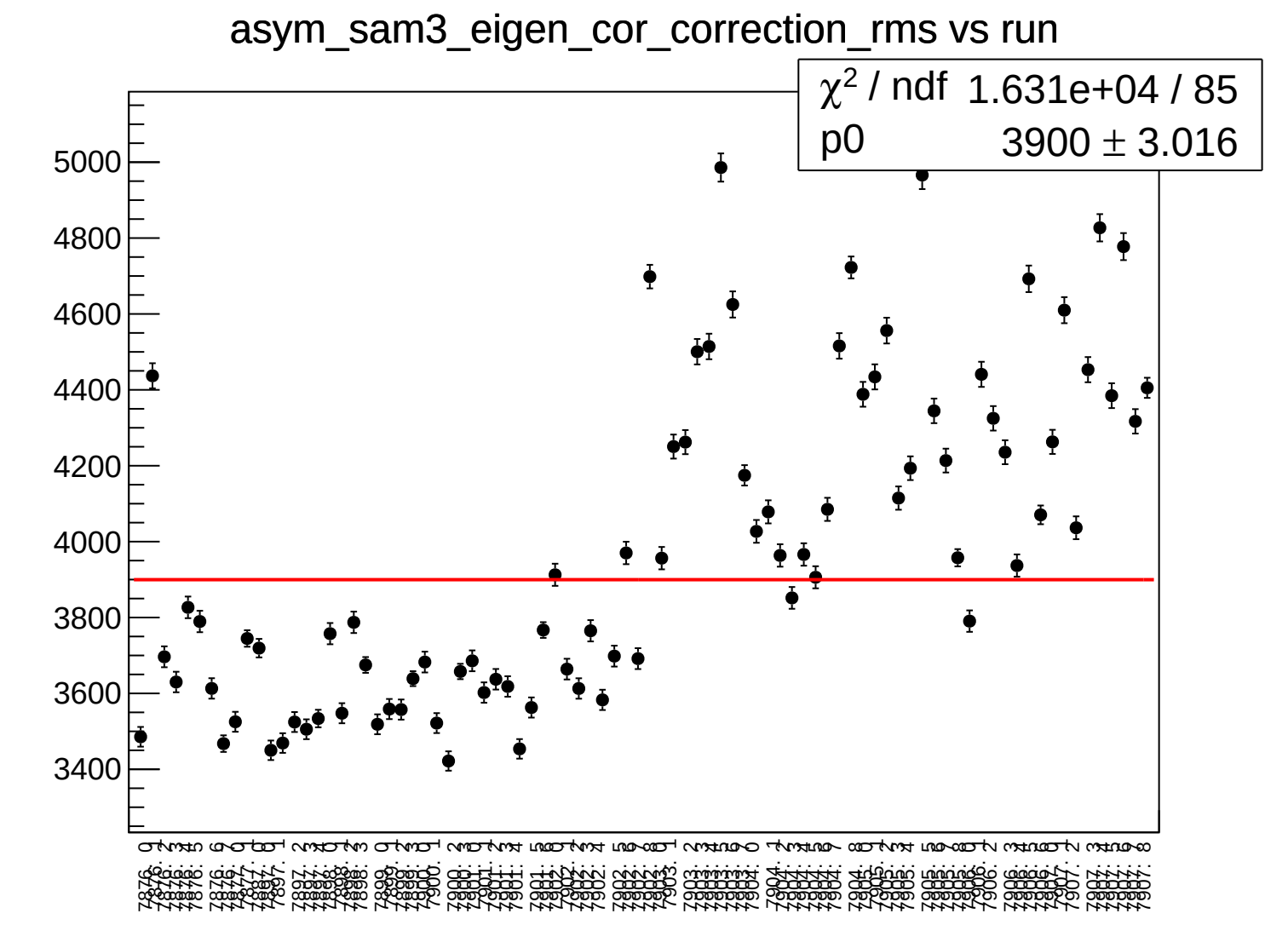

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.631e+04 / 85
p0 3900 ± 3.016
5000
4800
4600
4400
4200
4000
3800
3600
3400

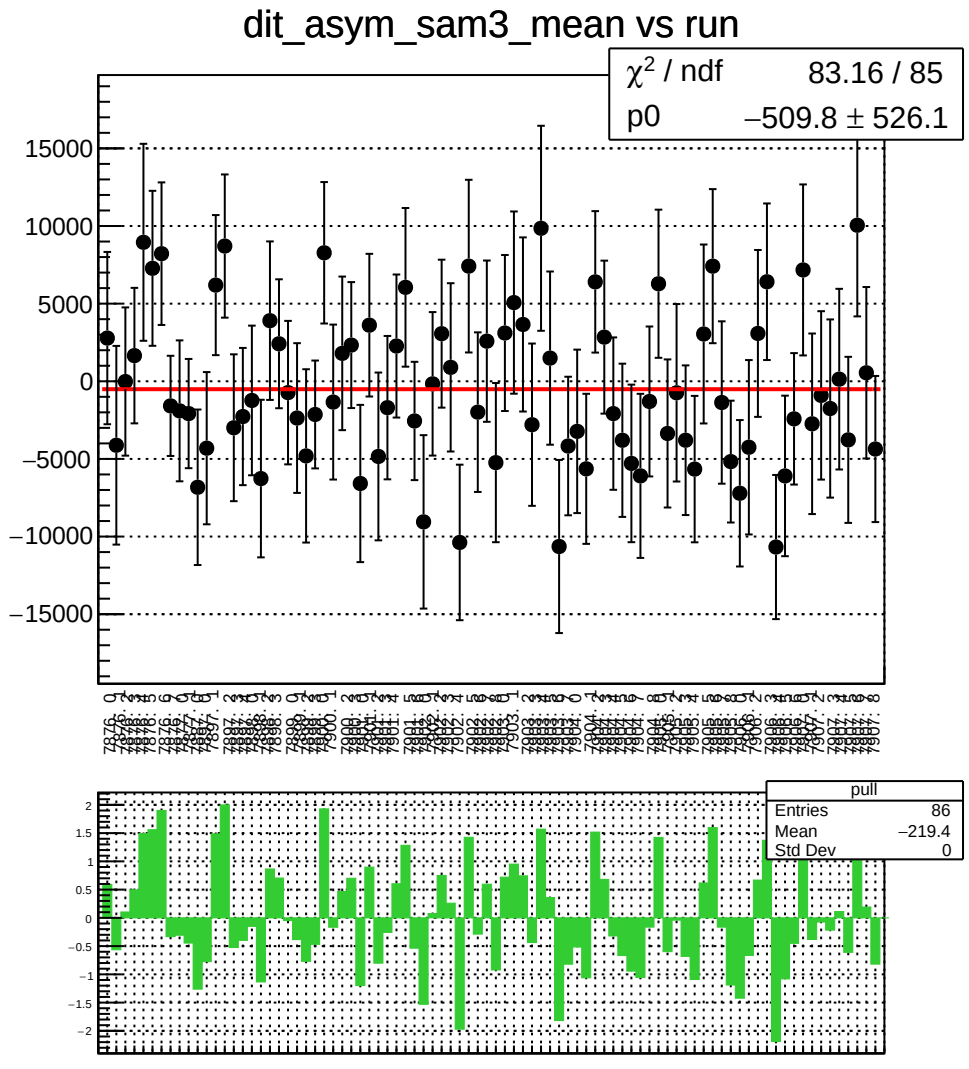

eigen_cor_asym_sam3_mean vs run
χ² / ndf 86.52 / 85
p0 −470.2 ± 501.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −1078
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.003737
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

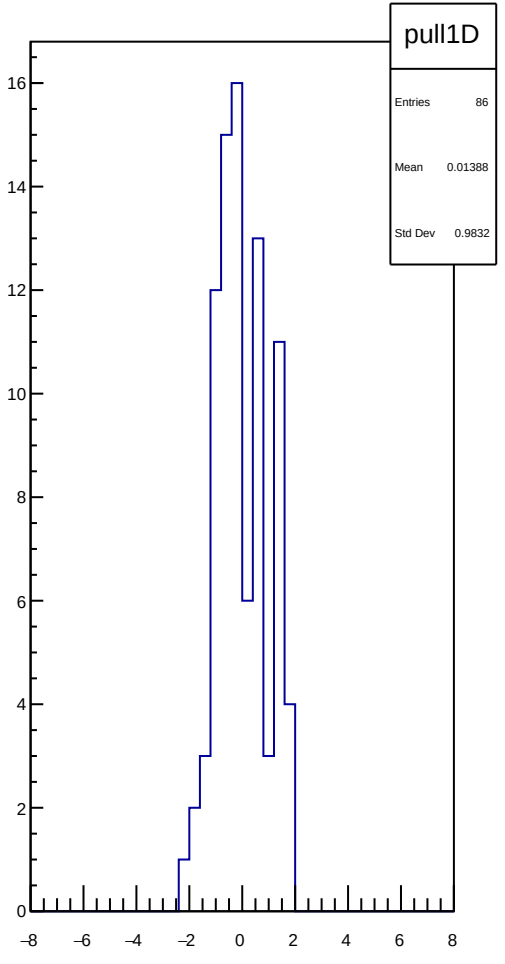

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.271e+04 / 85
p0 458.7 ± 0.3544
550
500
450
400
350

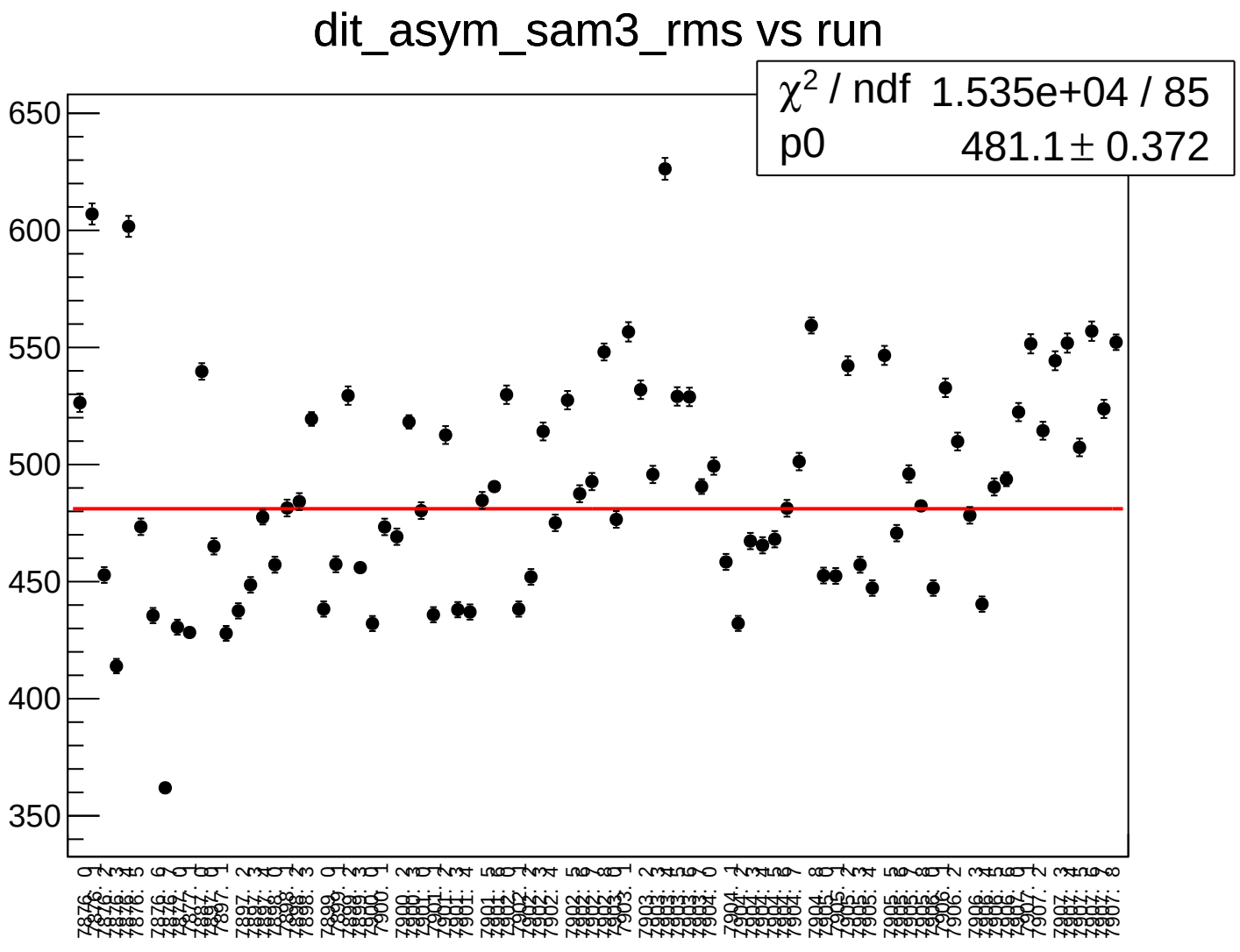

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.68 / 85
p0 −6877 ± 4266
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −49.56
Std Dev 0
3
2
1
0
−1
−2

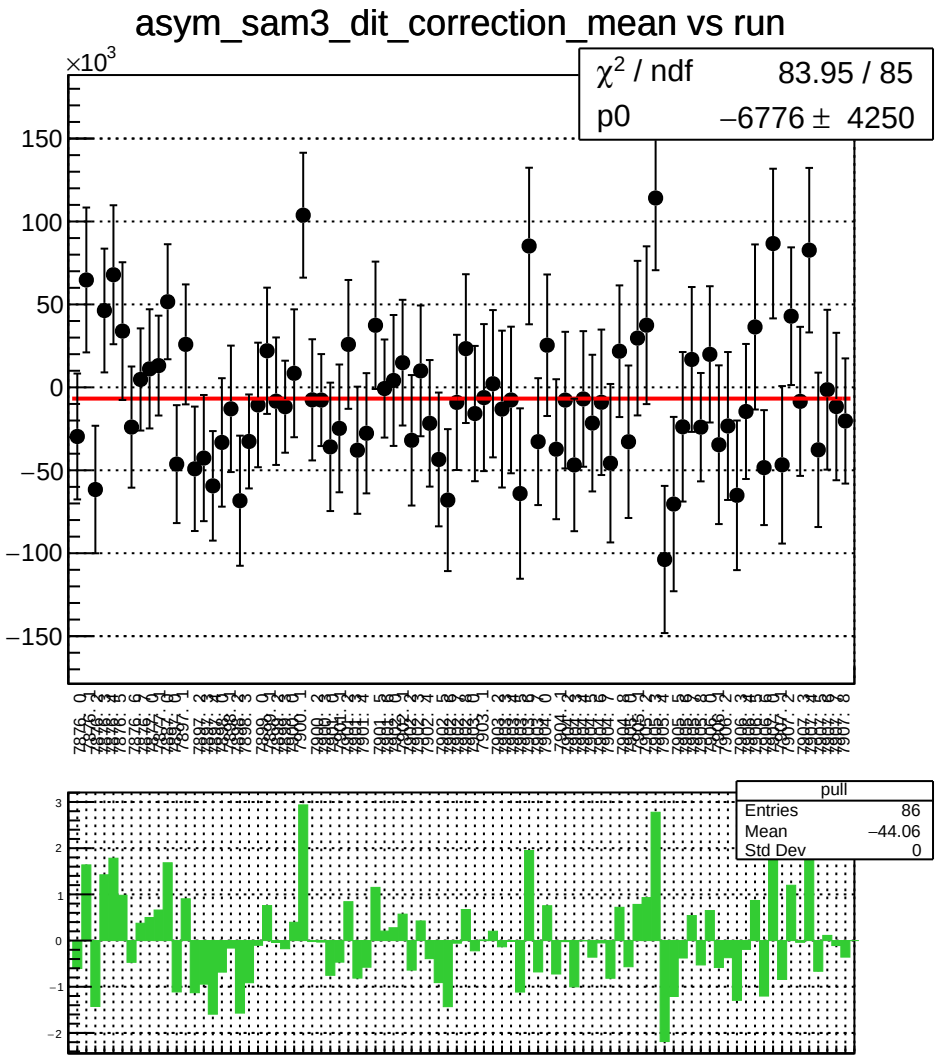

pull1D
Entries 86
Mean 0.01029
Std Dev 0.9863
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

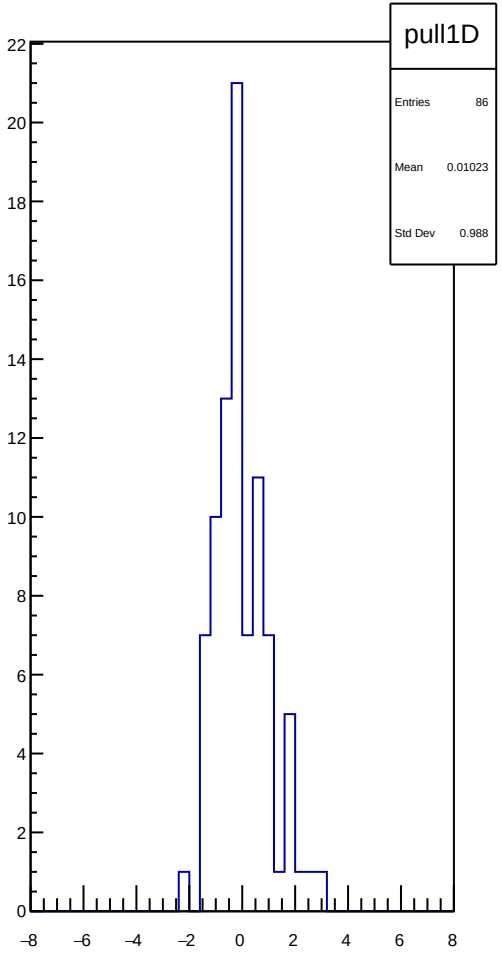

asym_sam3_eigen_cor_correction_rms vs run
χ^2 / ndf 1.631e+04 / 85
p0 3900 ± 3.016
5000
4800
4600
4400
4200
4000
3800
3600
3400

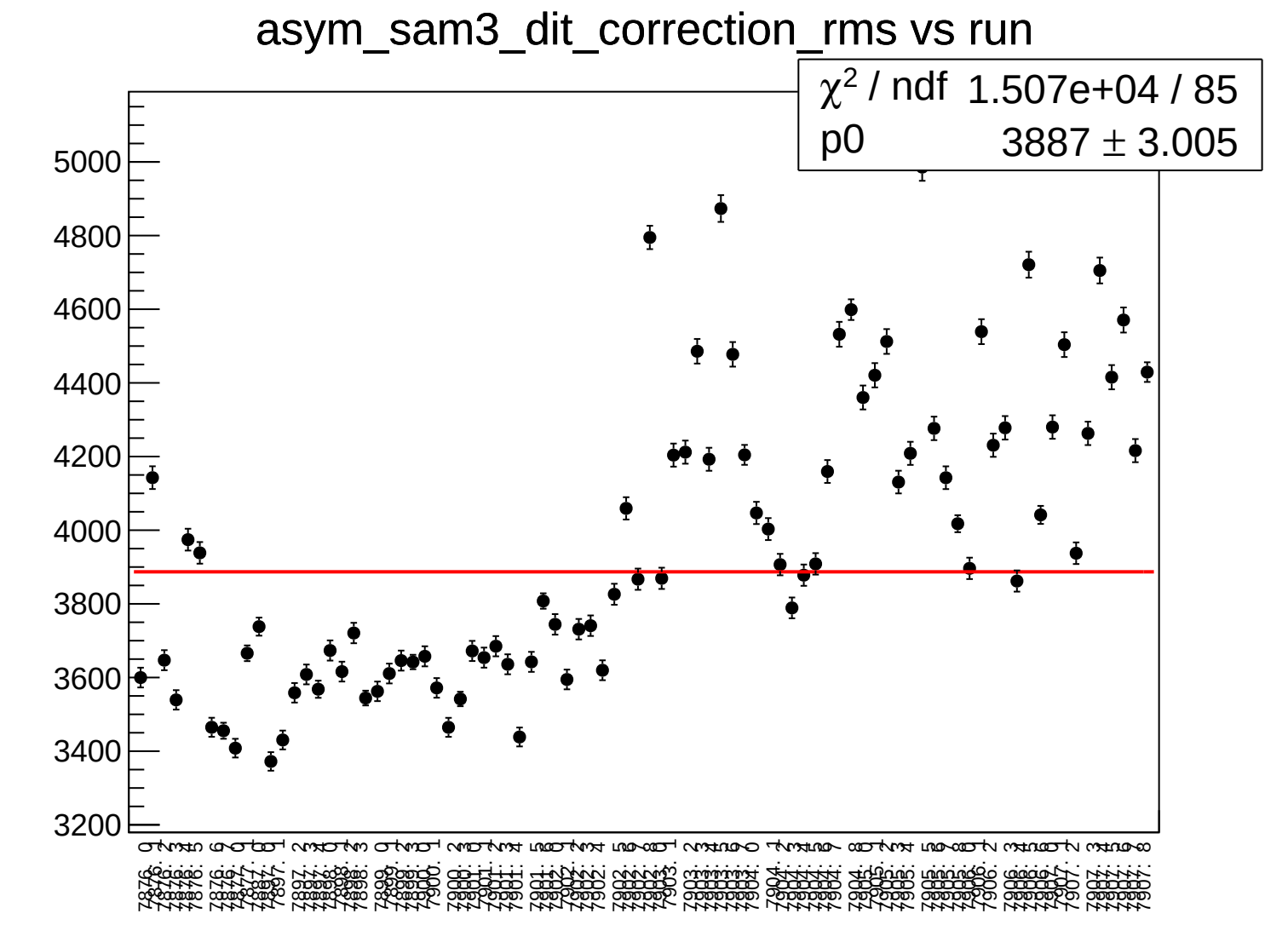

dit_asym_sam3_mean vs run
χ² / ndf 83.16 / 85
p0 −509.8 ± 526.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −219.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

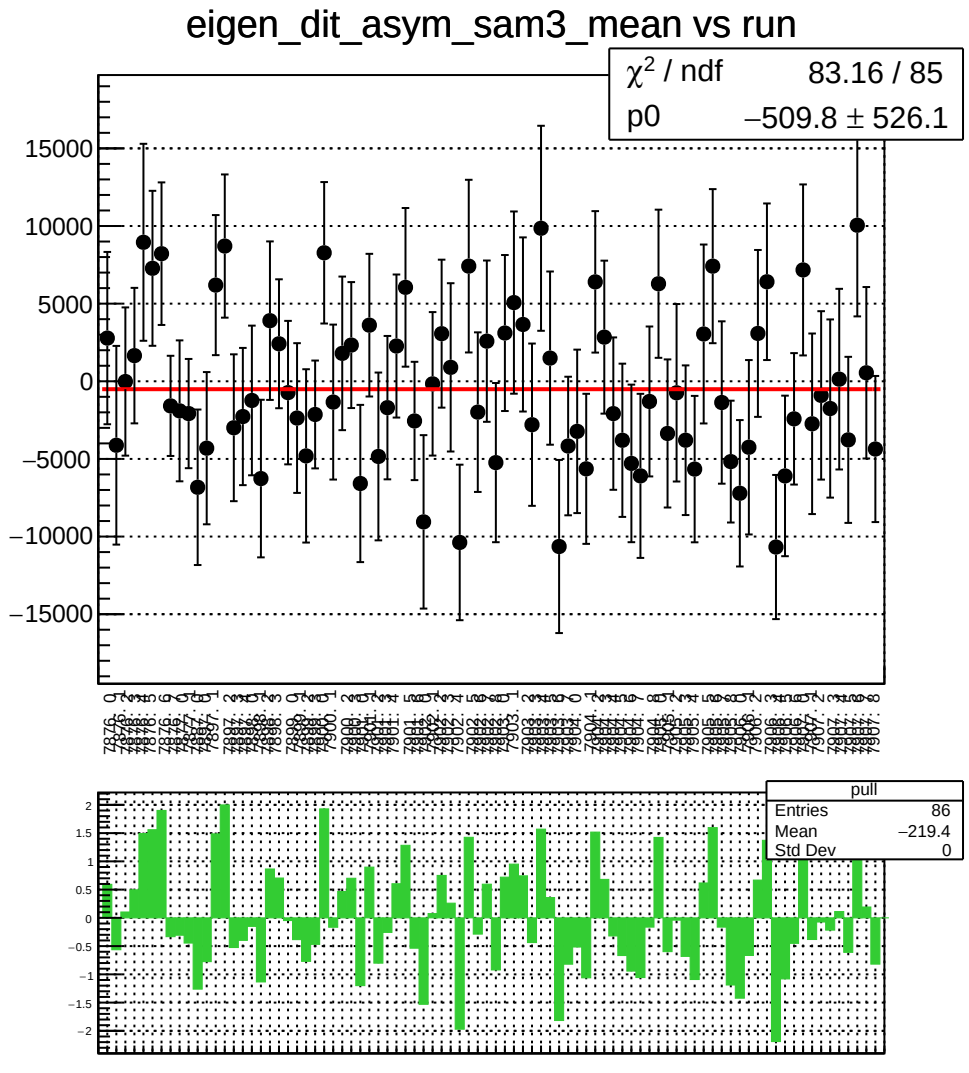

pull1D
Entries 86
Mean 0.01388
Std Dev 0.9832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

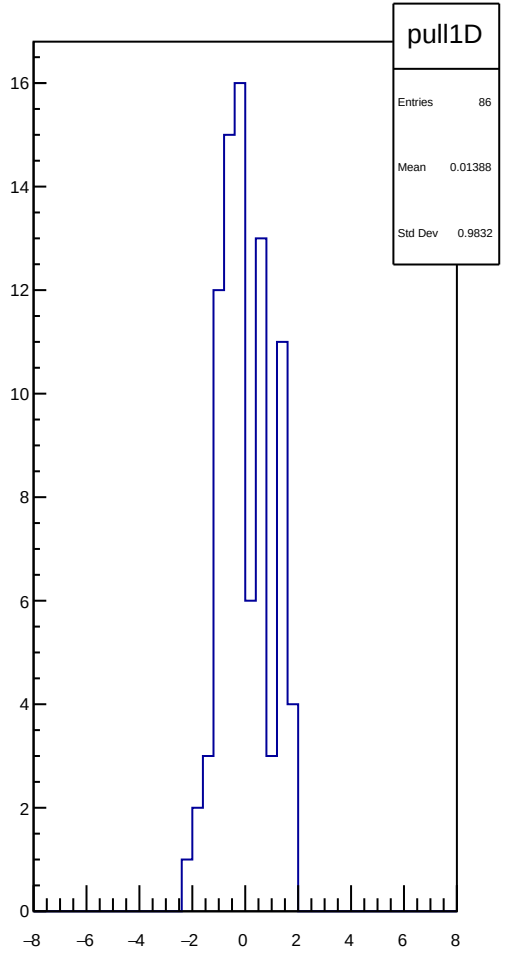

dit_asym_sam3_rms vs run
χ² / ndf 1.535e+04 / 85
p0 481.1 ± 0.372
650
600
550
500
450
400
350

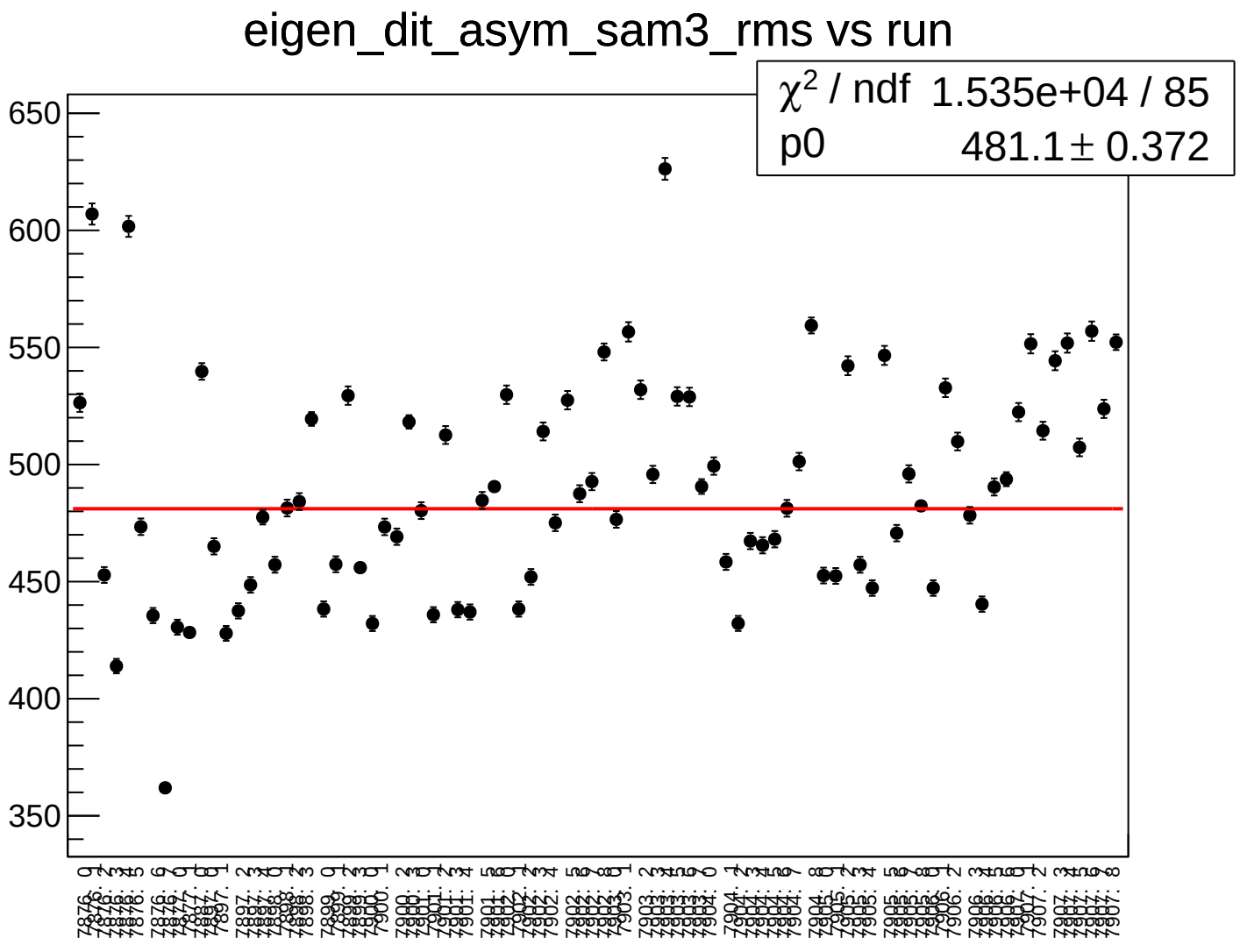

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 83.95 / 85
p0 −6776 ± 4250
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −44.06
Std Dev 0
3
2
1
0
−1
−2

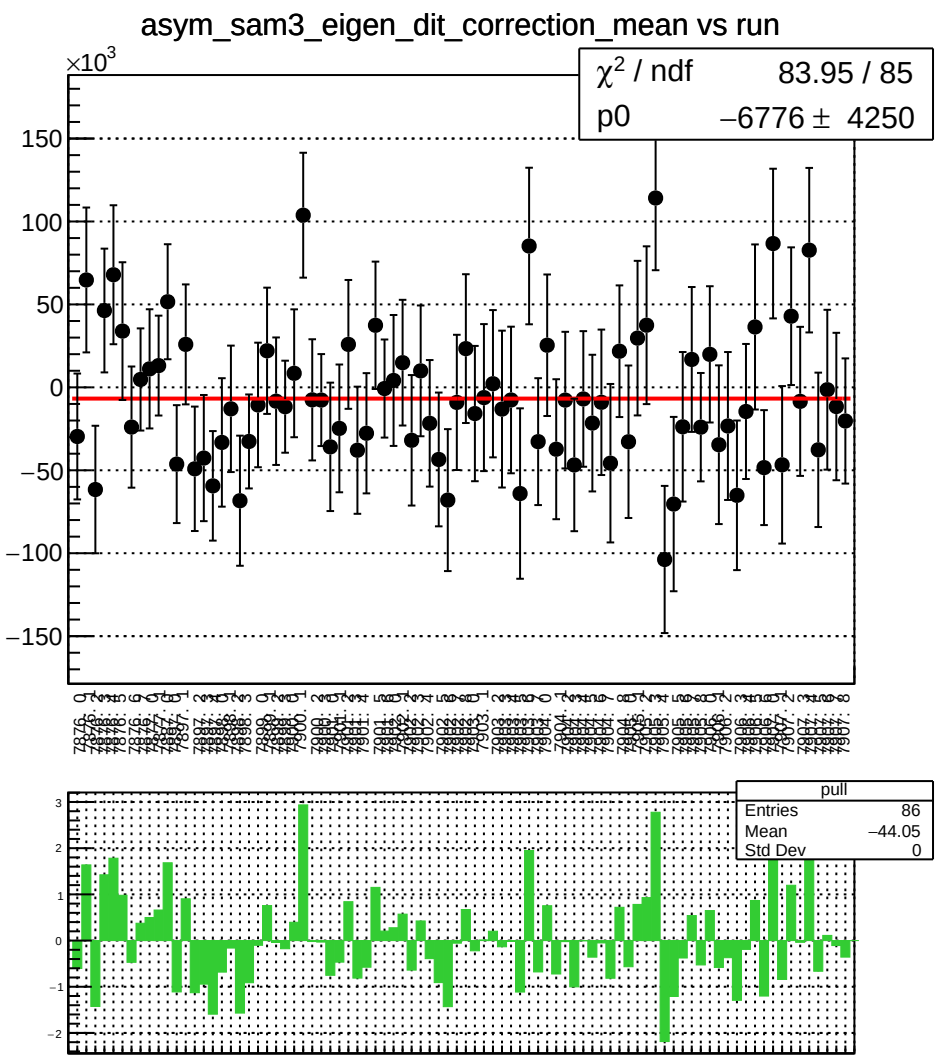

pull1D
Entries 86
Mean 0.01023
Std Dev 0.988
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

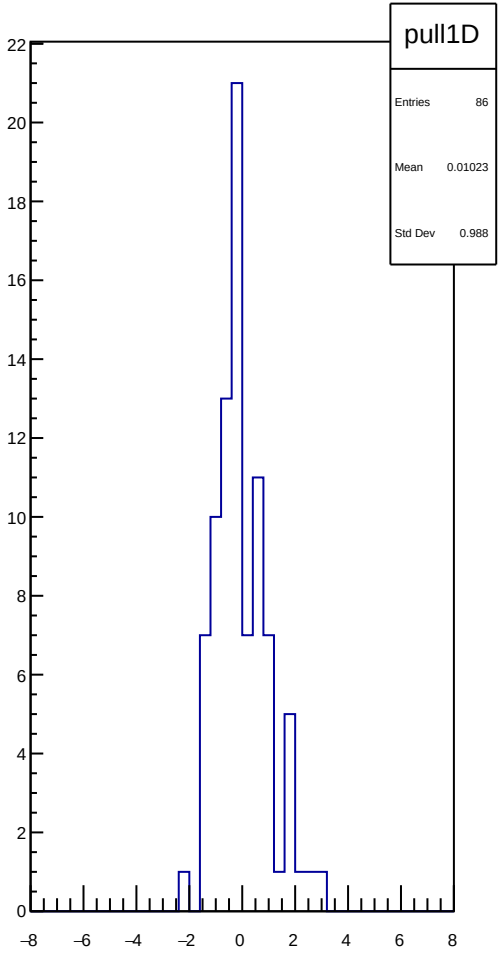

asym_sam3_dit_correction_rms vs run
χ^2 / ndf 1.507e+04 / 85
p0 3887 ± 3.005
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

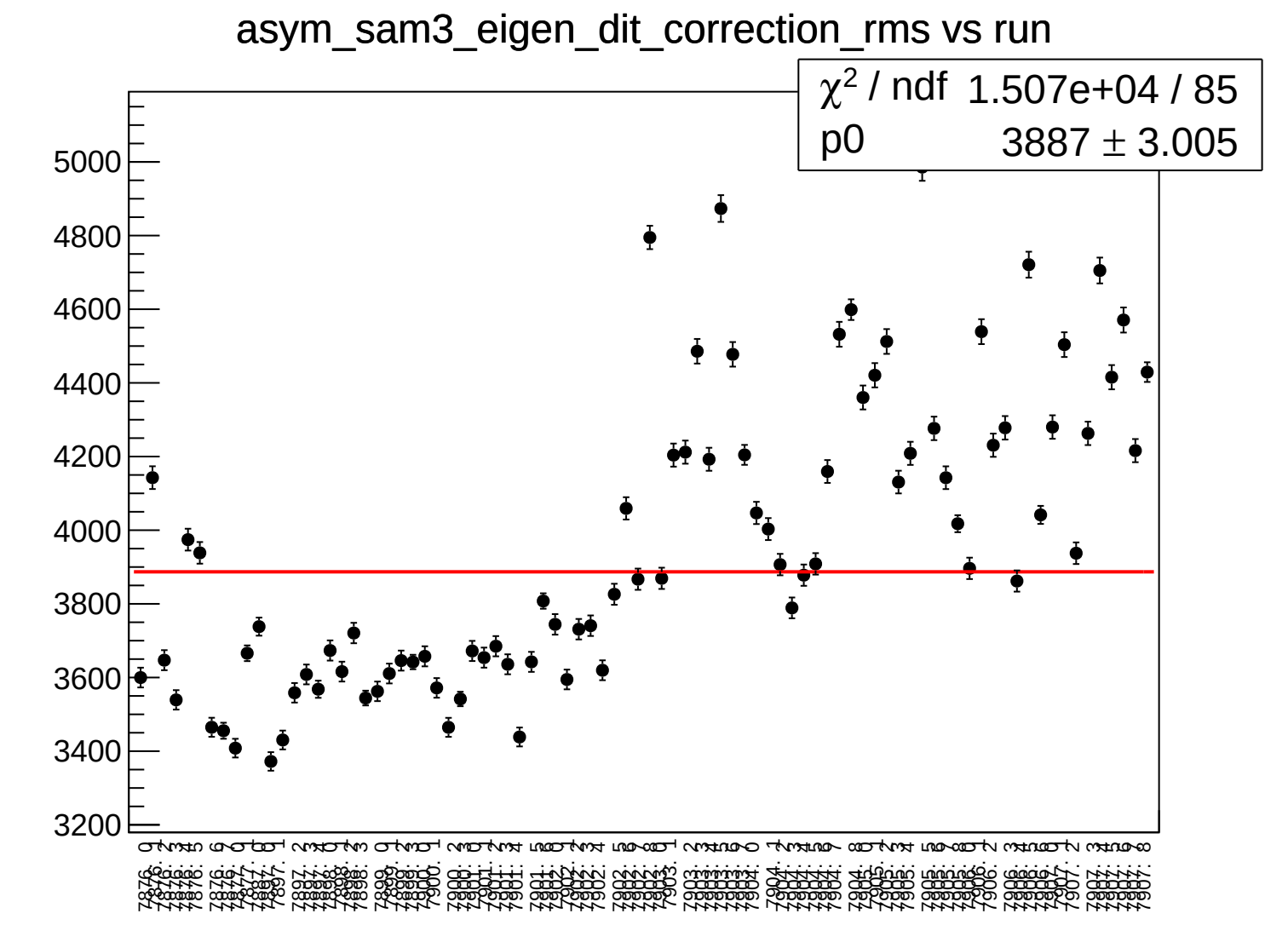

eigen_dit_asym_sam3_mean vs run
χ² / ndf 83.16 / 85
p0 −509.8 ± 526.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −219.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

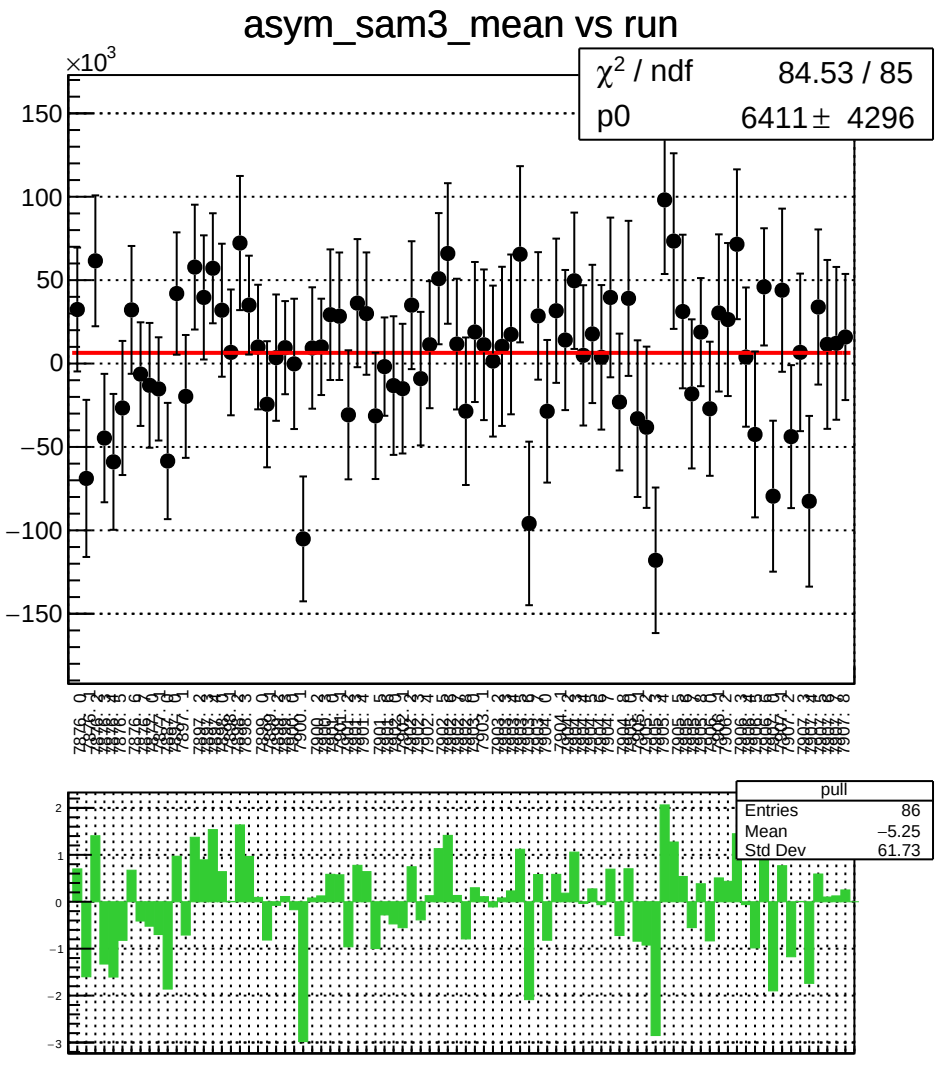

pull1D
Entries 86
Mean 0.01388
Std Dev 0.9832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

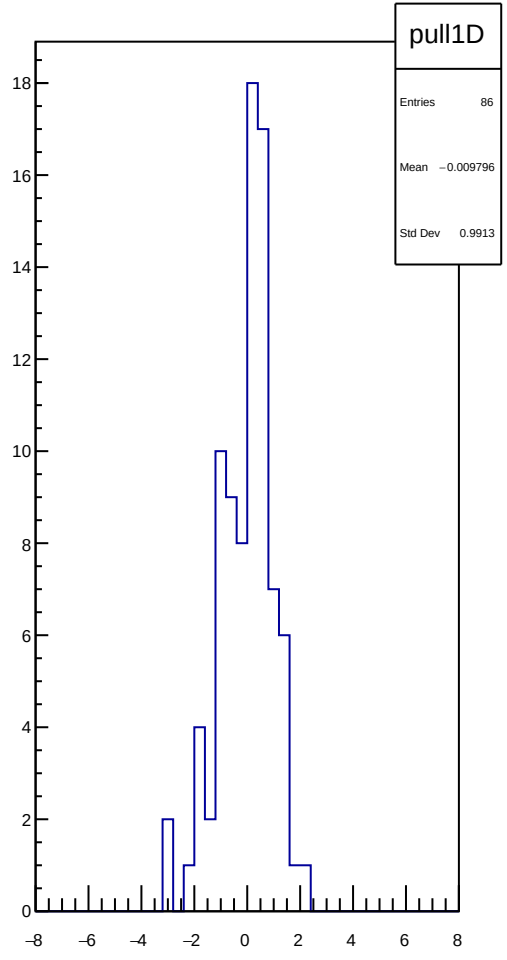

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.535e+04 / 85
p0 481.1 ± 0.372
650
600
550
500
450
400
350

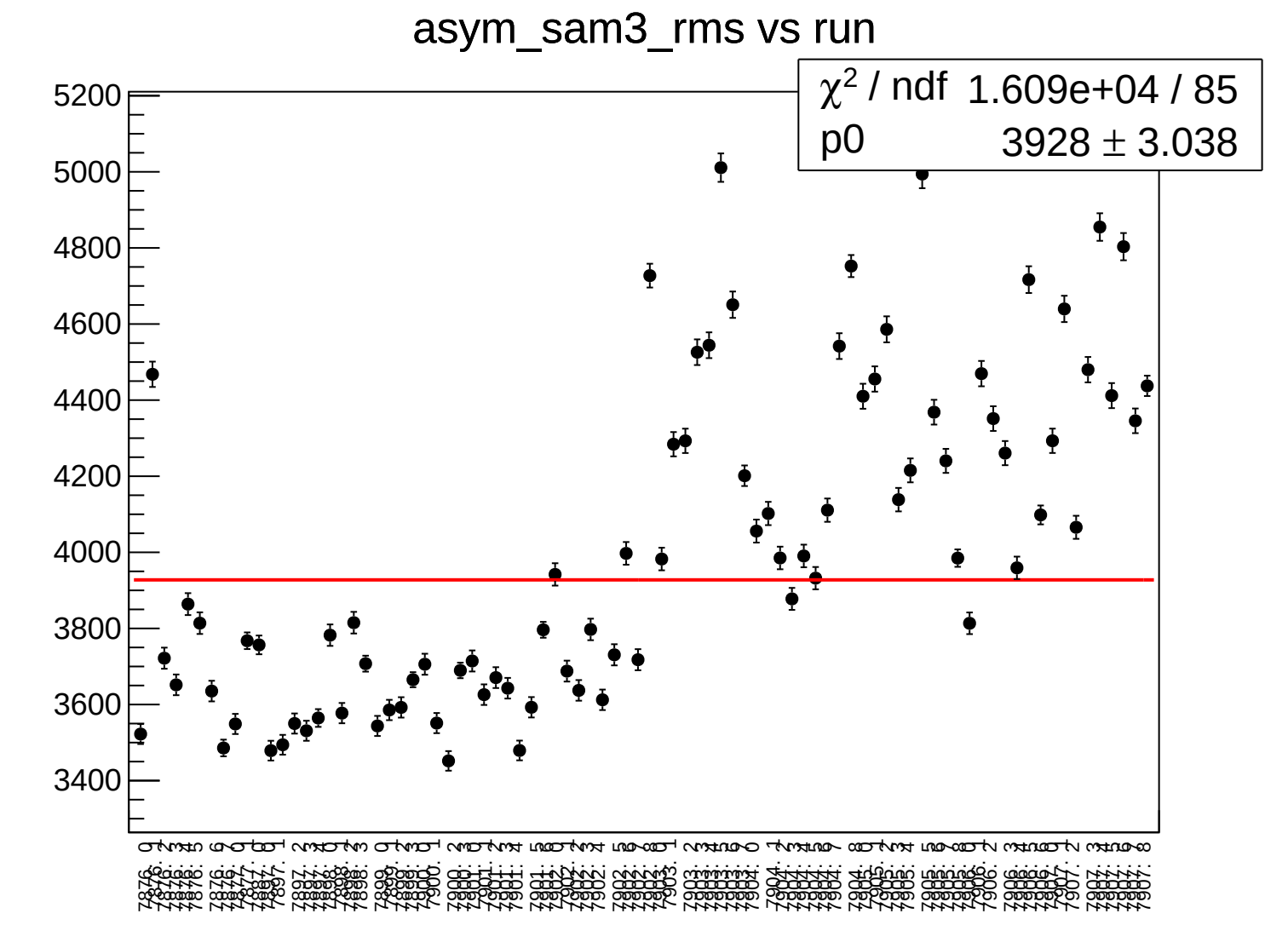

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.95 / 85
p0 −6776 ± 4250
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −44.05
Std Dev 0
3
2
1
0
−1
−2

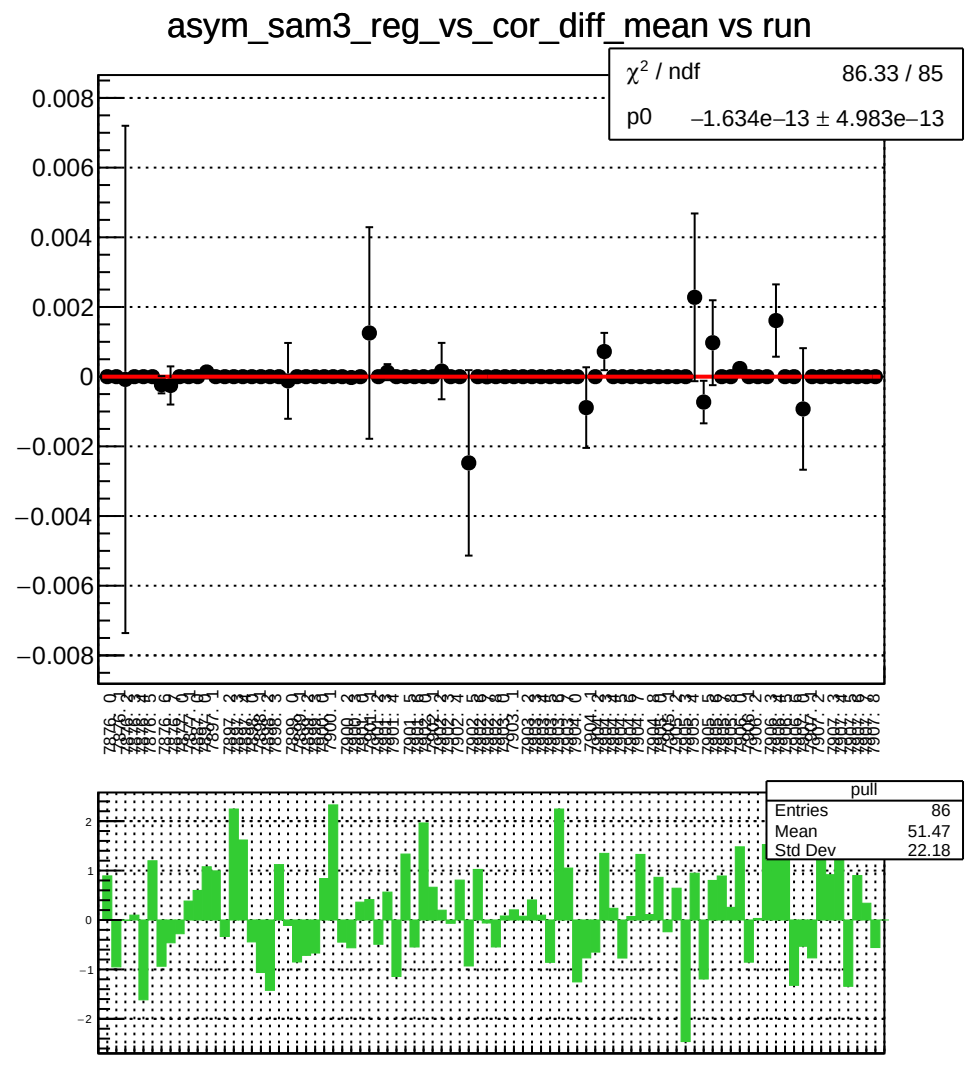

pull1D
Entries 86
Mean 0.01023
Std Dev 0.988
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

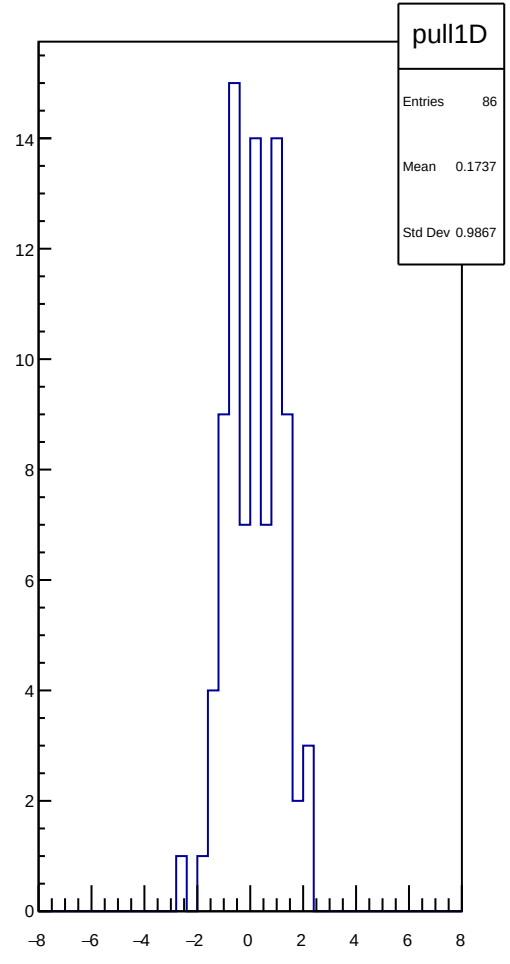

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.507e+04 / 85
p0 3887 ± 3.005
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

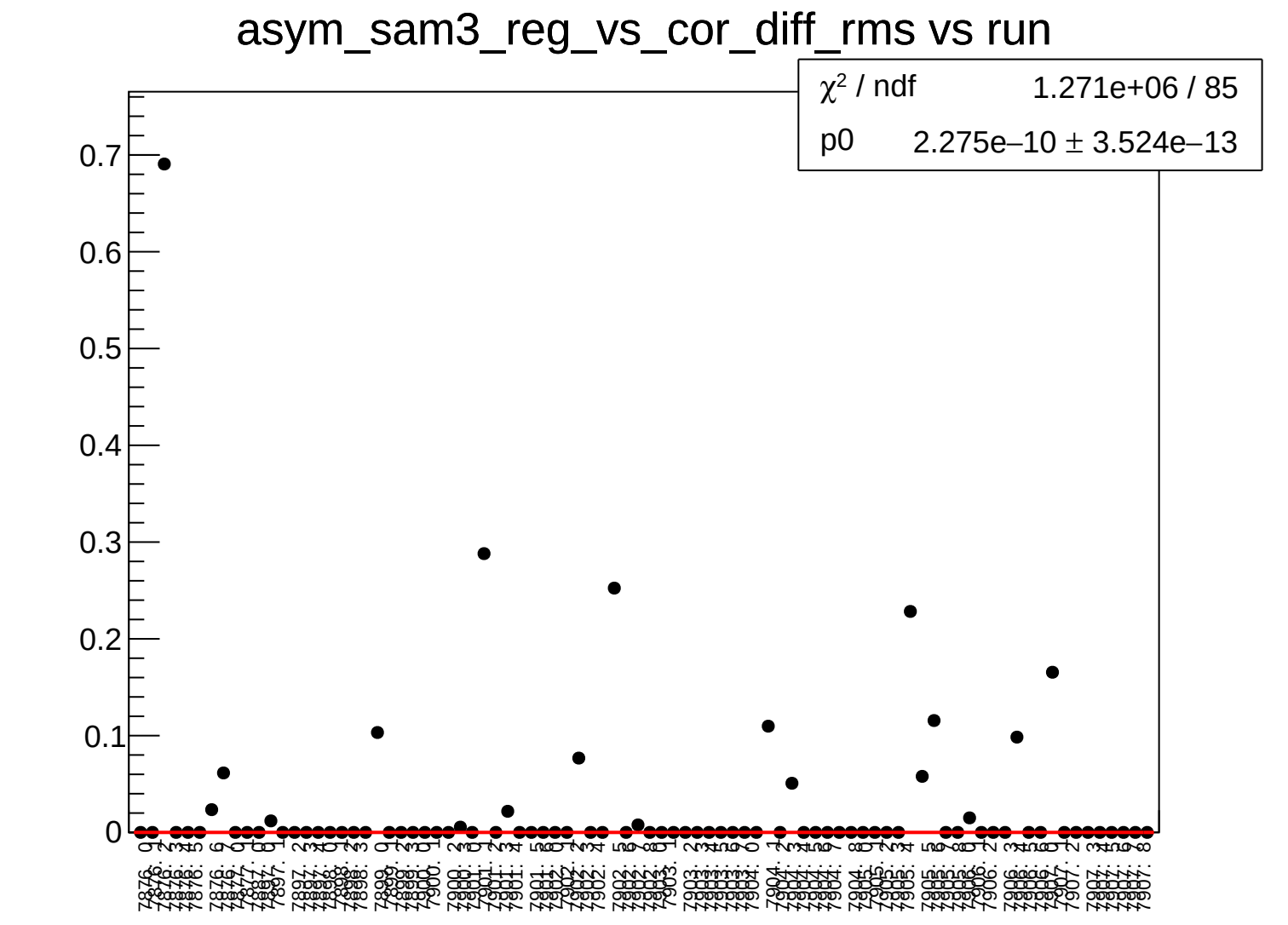

asym_sam3_mean vs run
×10^3
χ^2 / ndf 84.53 / 85
p0 6411 ± 4296
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −5.25
Std Dev 61.73
2
1
0
−1
−2
−3

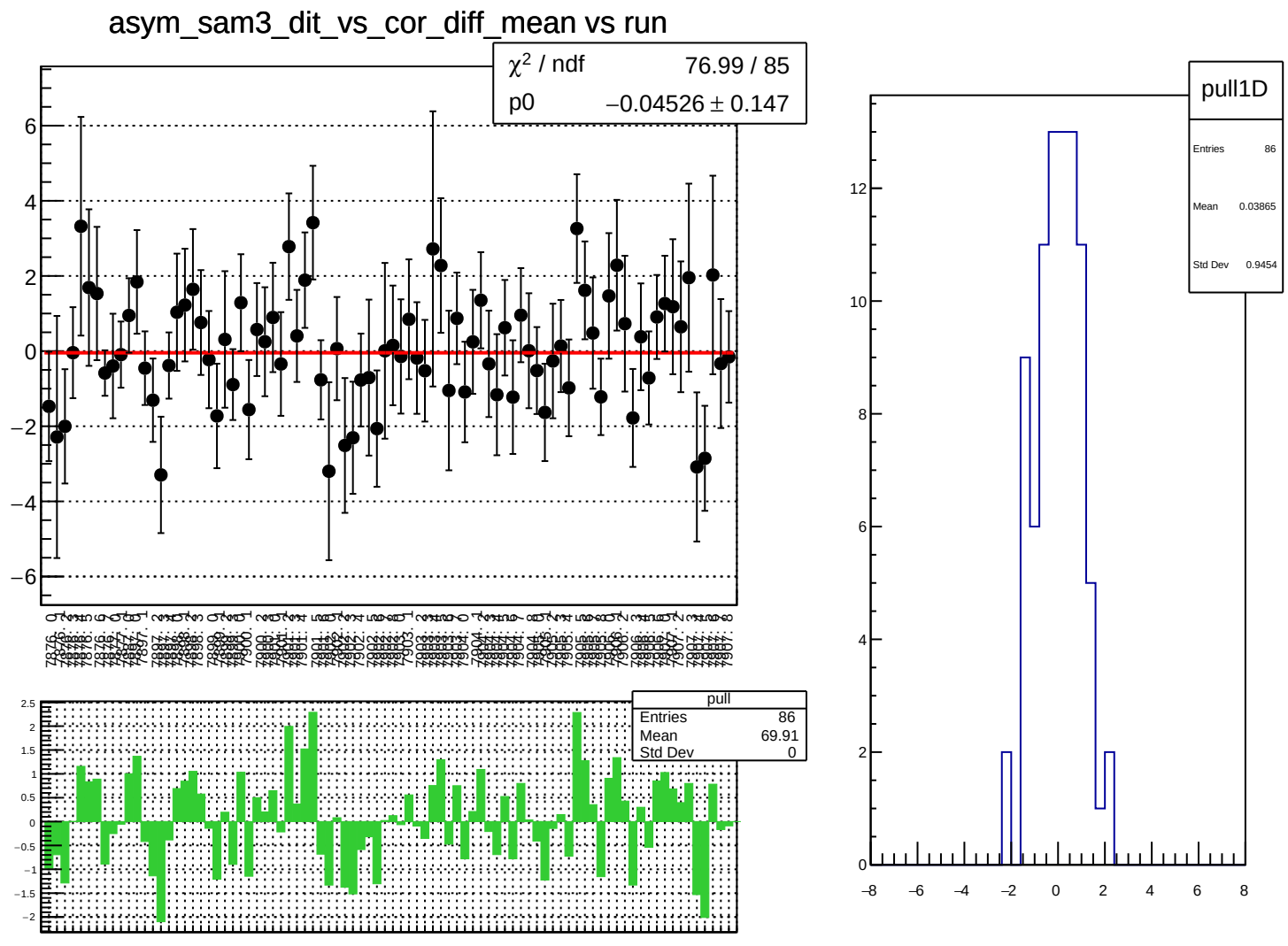

pull1D
Entries 86
Mean −0.009796
Std Dev 0.9913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

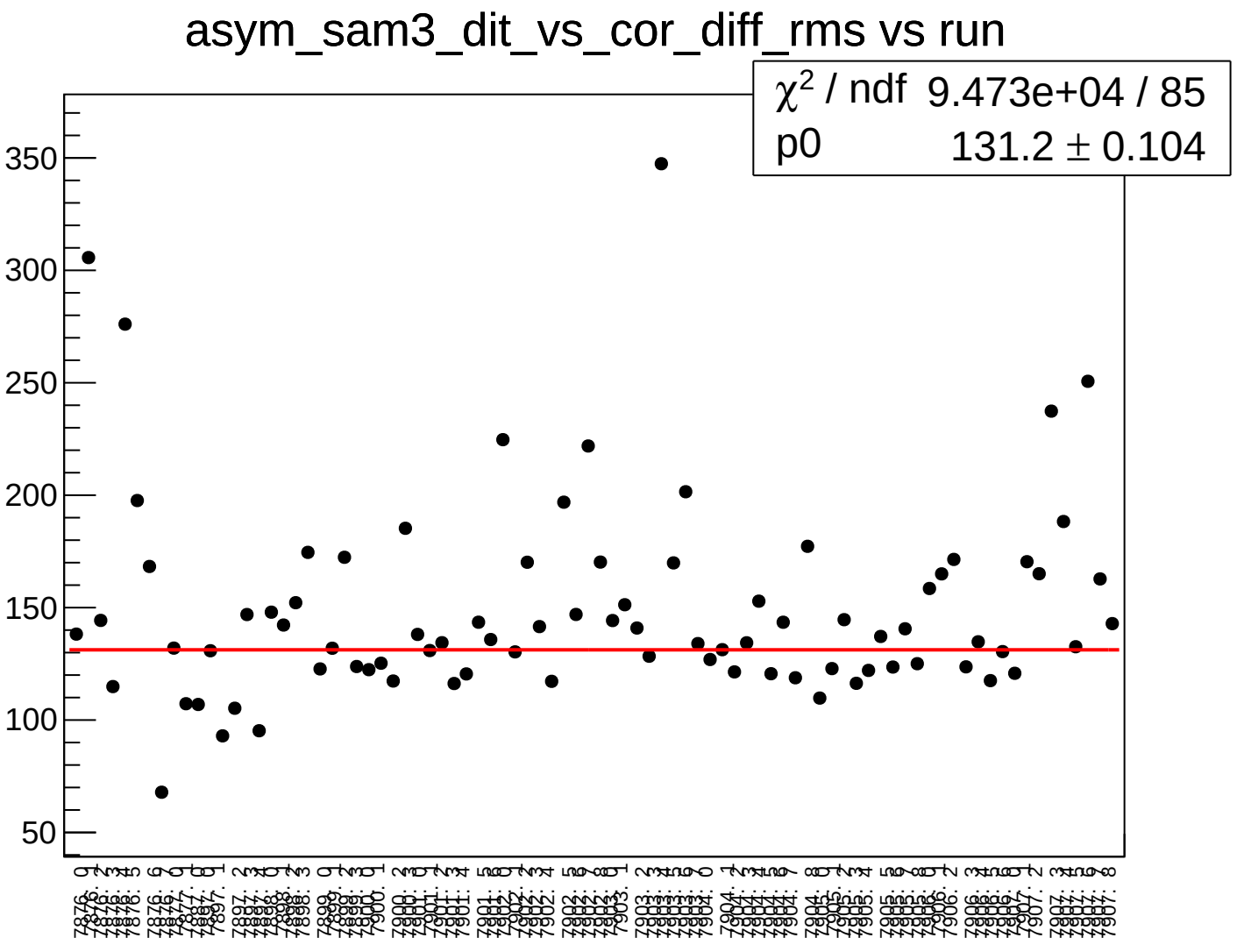

asym_sam3_rms vs run
χ^2 / ndf 1.609e+04 / 85
p0 3928 ± 3.038
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

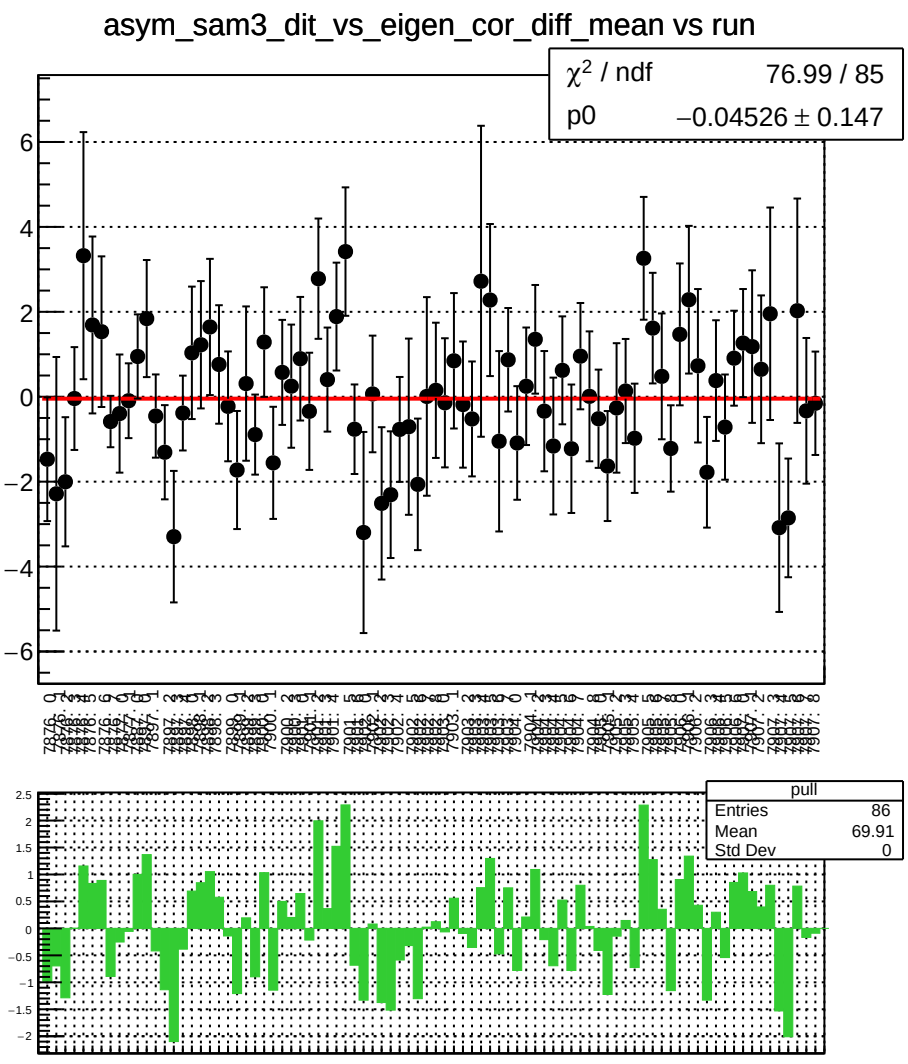

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 86.33 / 85
p0 −1.634e−13 ± 4.983e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 86
Mean 51.47
Std Dev 22.18
2
1
0
−1
−2

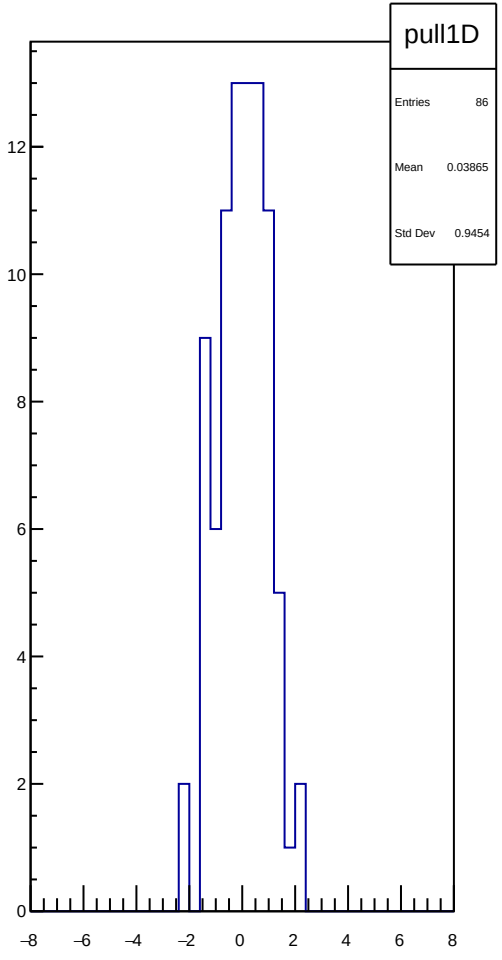

pull1D
Entries 86
Mean 0.1737
Std Dev 0.9867
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

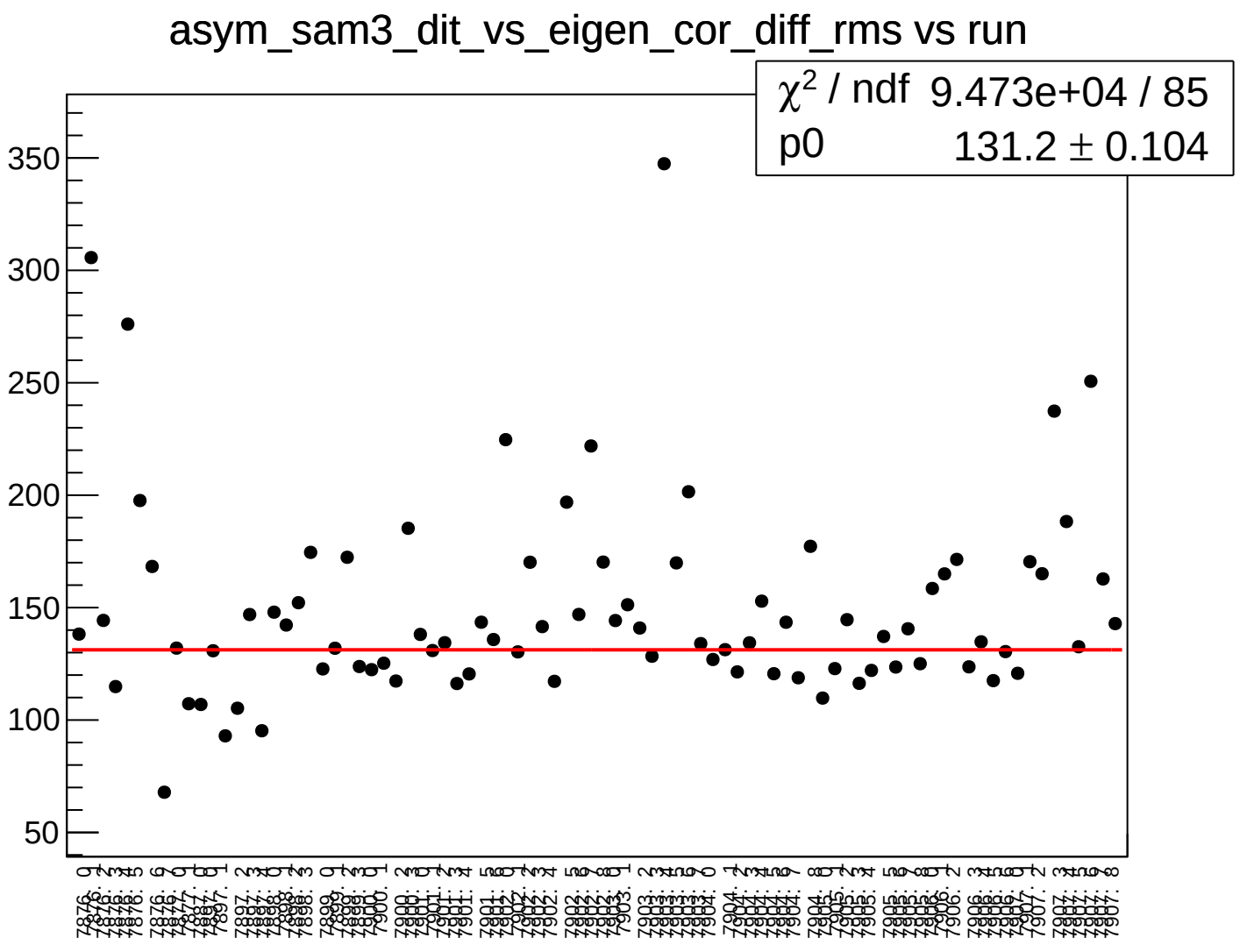

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.271e+06 / 85
p0 2.275e−10 ± 3.524e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

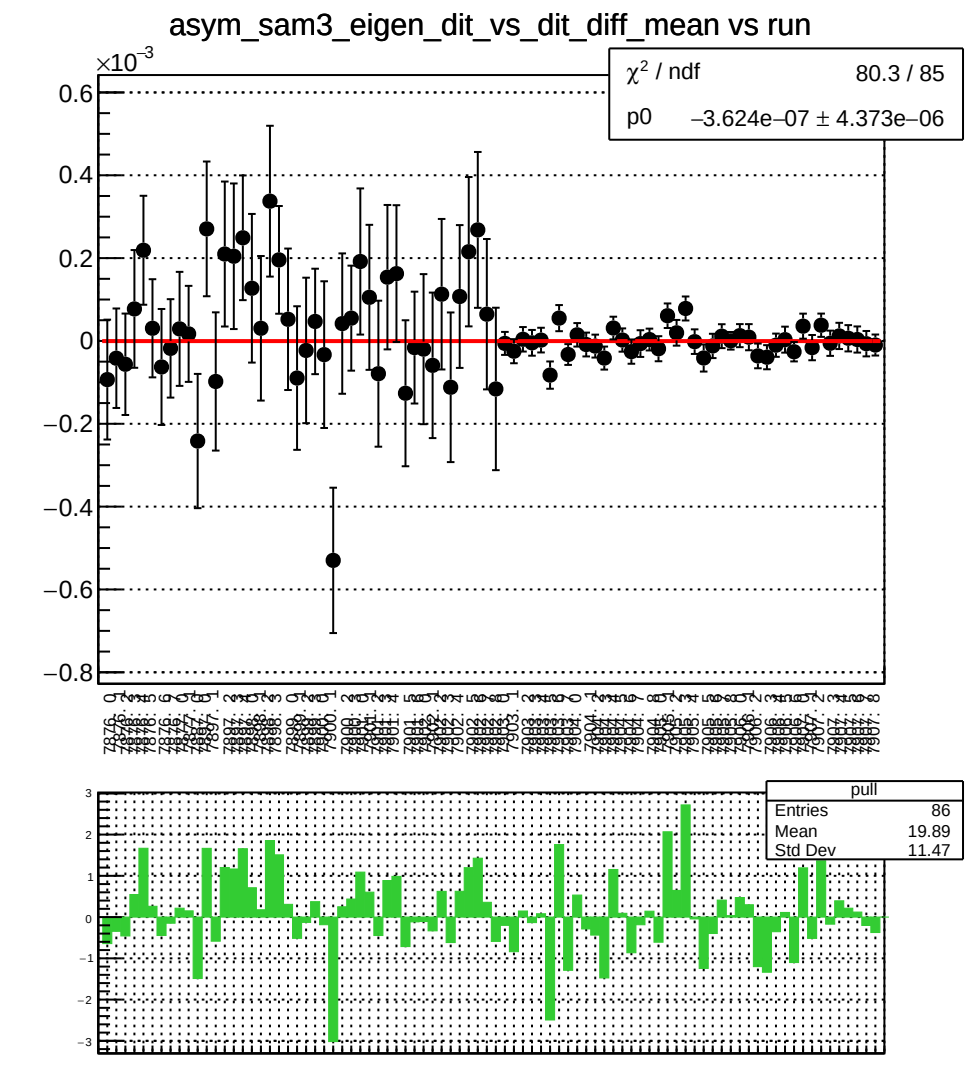

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 76.99 / 85
p0 −0.04526 ± 0.147
pull
Entries 86
Mean 69.91
Std Dev 0
pull1D
Entries 86
Mean 0.03865
Std Dev 0.9454

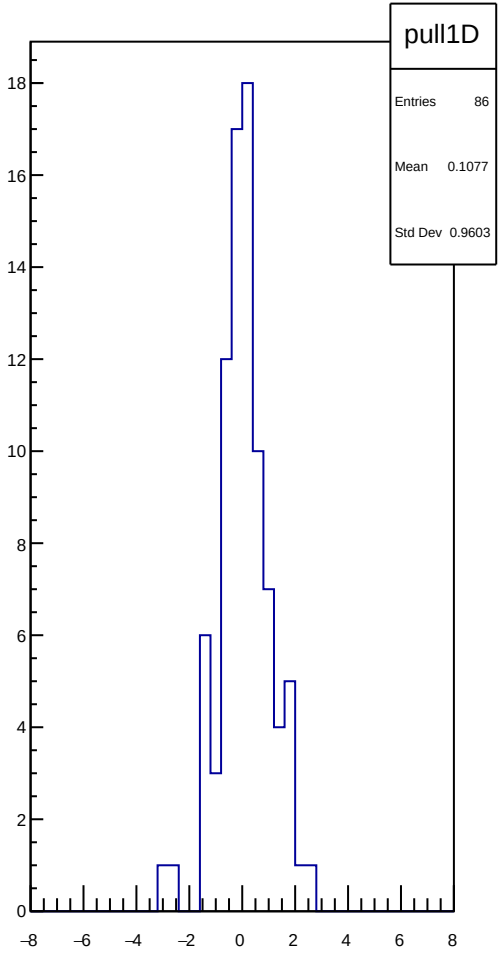

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 9.473e+04 / 85
p0 131.2 ± 0.104
350
300
250
200
150
100
50

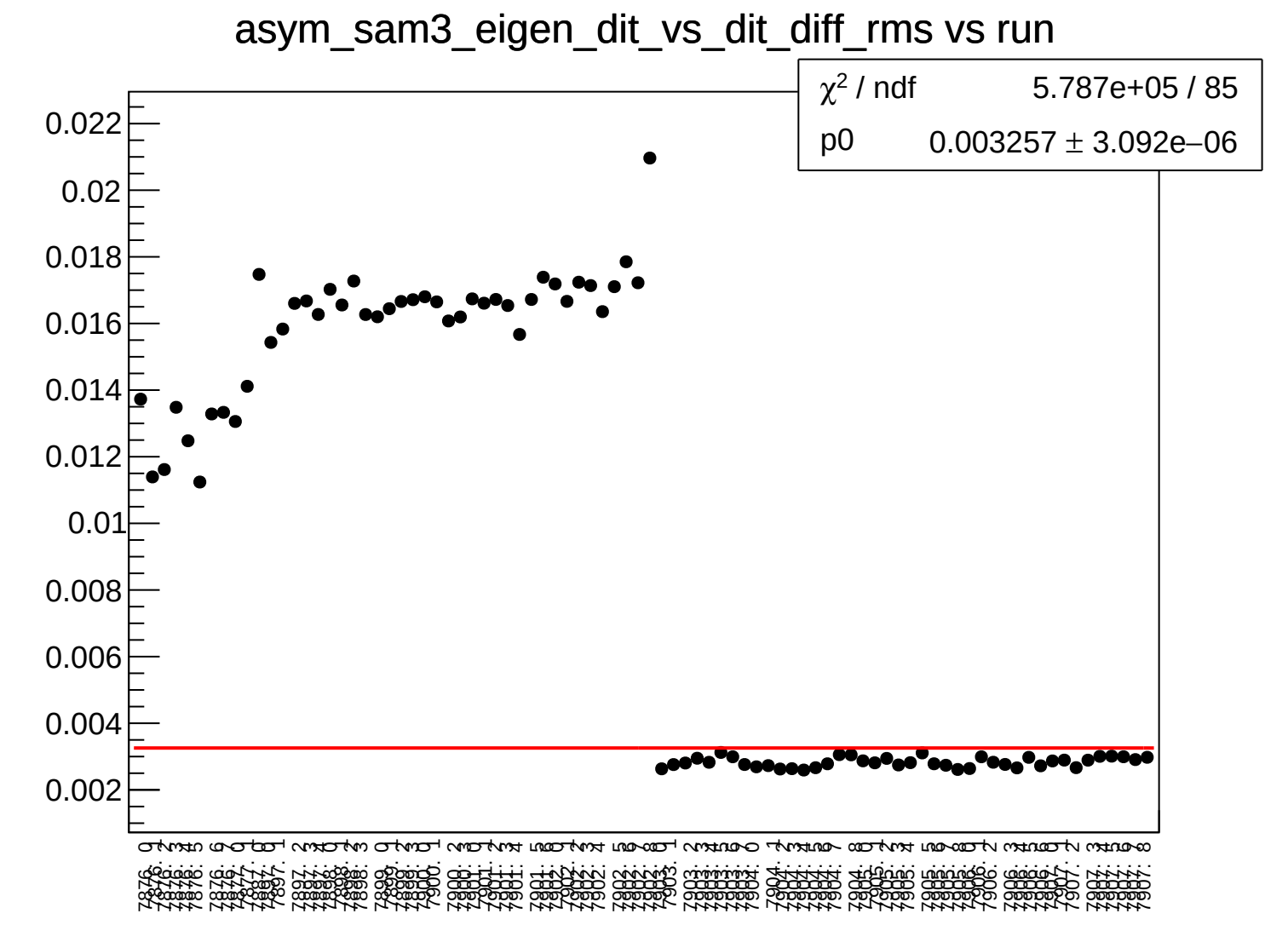

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.99 / 85
p0 −0.04526 ± 0.147
pull
Entries 86
Mean 69.91
Std Dev 0

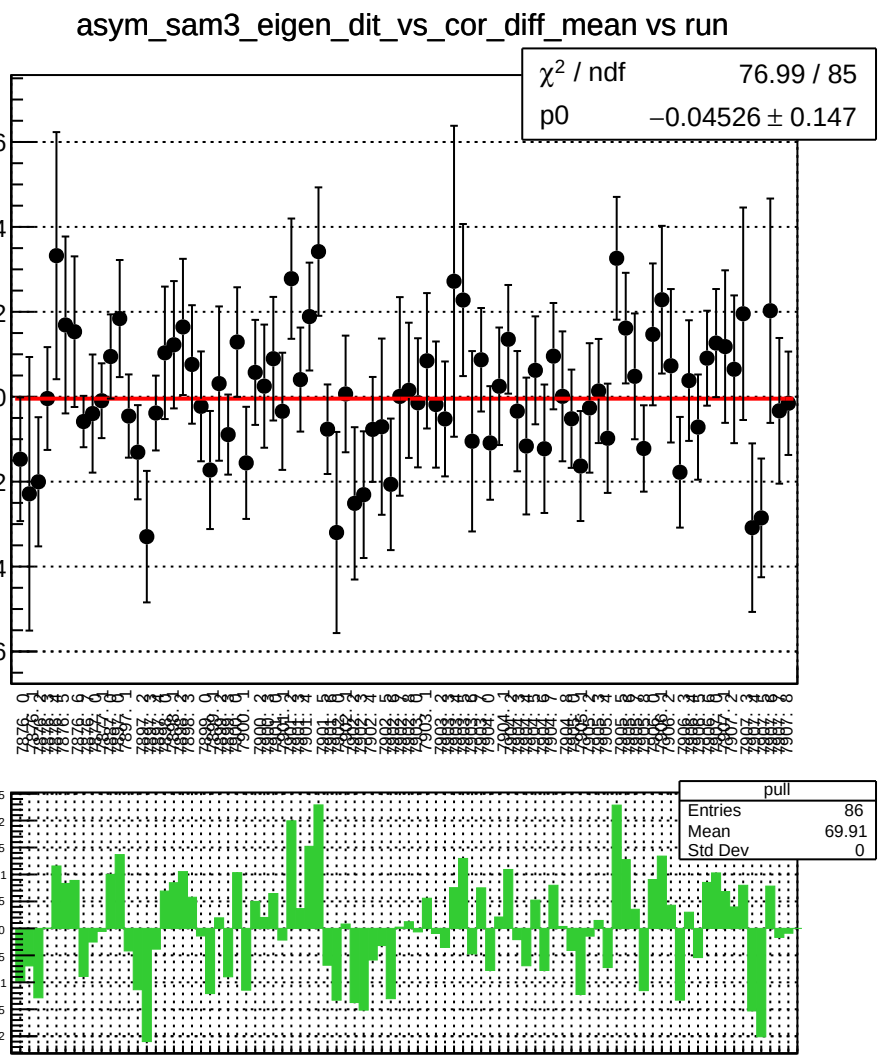

pull1D
Entries 86
Mean 0.03865
Std Dev 0.9454

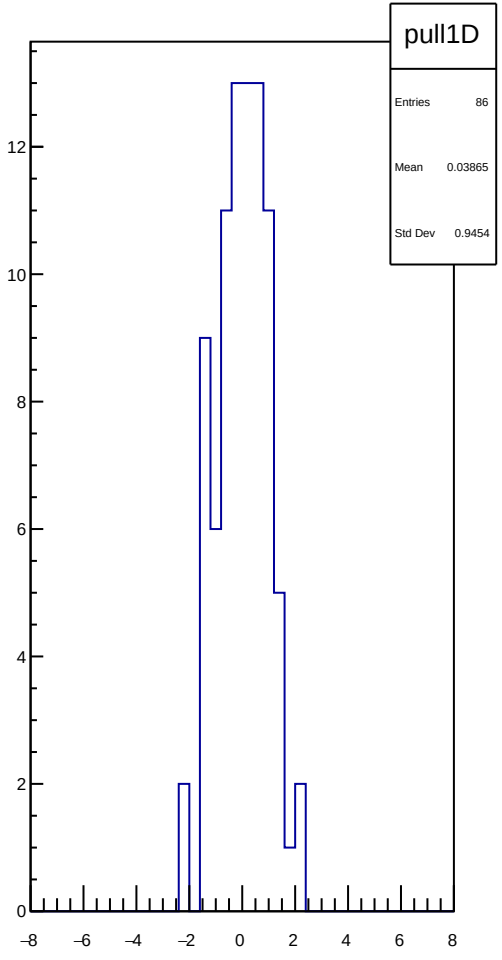

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.473e+04 / 85
p0 131.2 ± 0.104
350
300
250
200
150
100
50

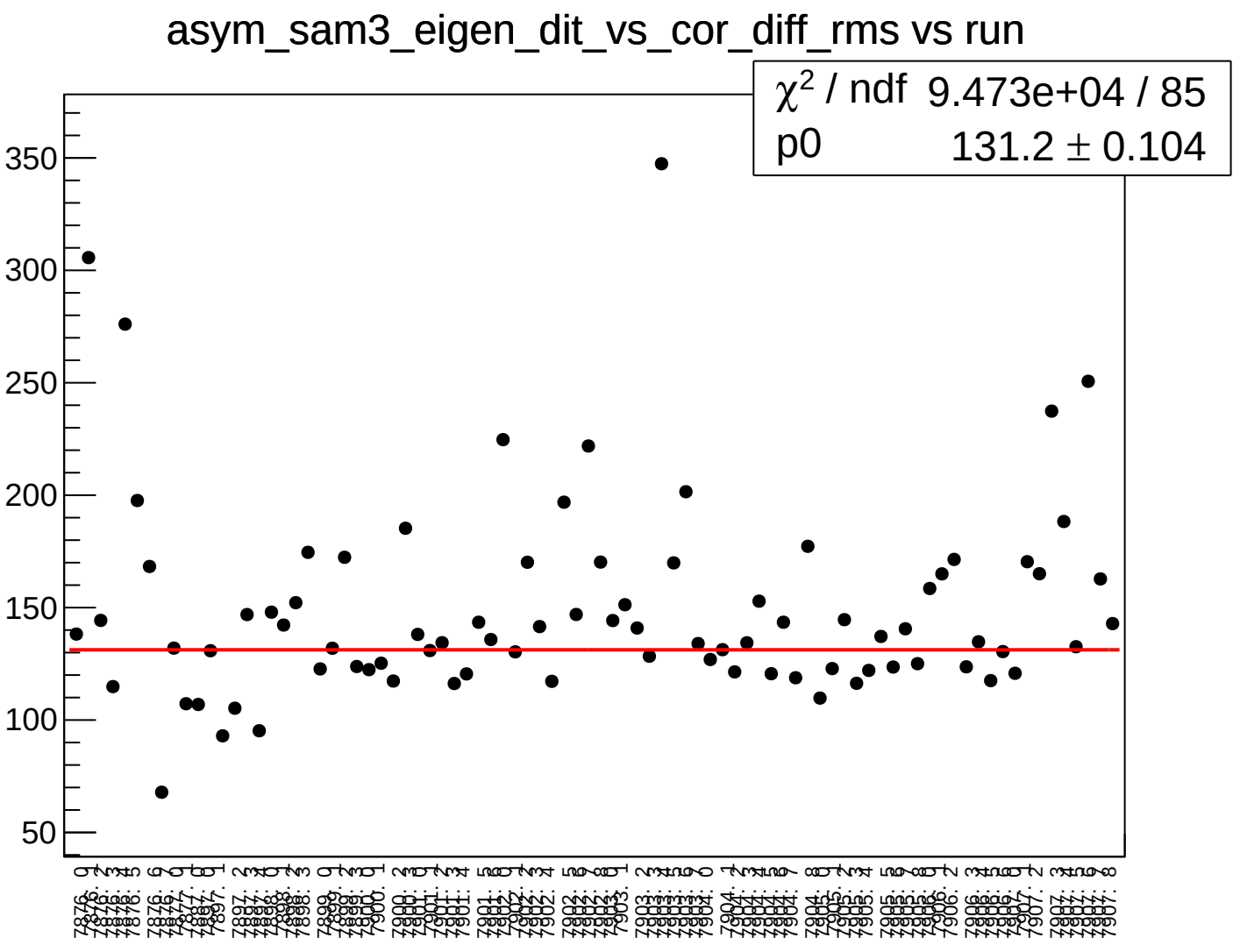

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.3 / 85
p0 −3.624e−07 ± 4.373e−06
pull
Entries 86
Mean 19.89
Std Dev 11.47

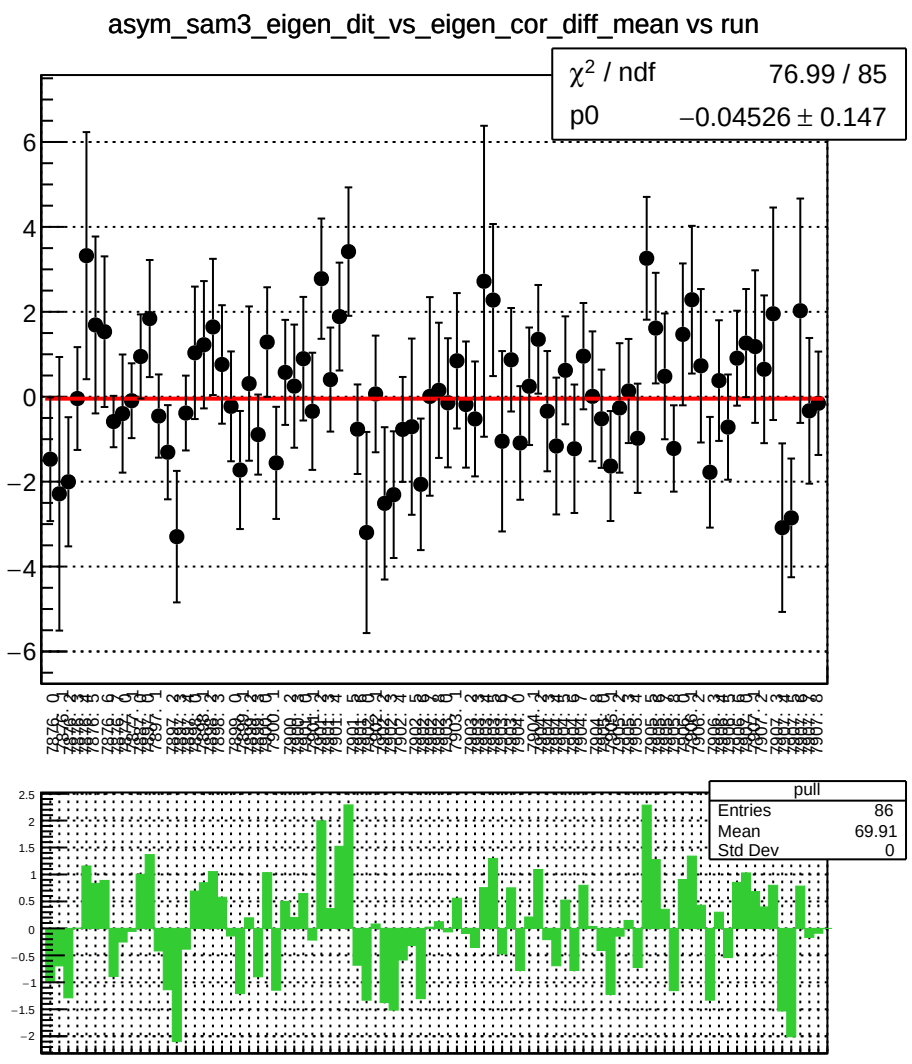

pull1D
Entries 86
Mean 0.1077
Std Dev 0.9603

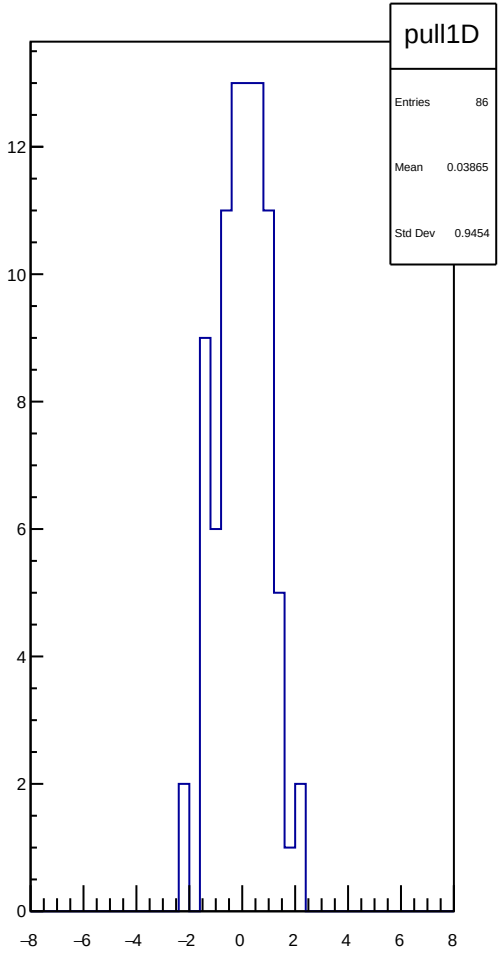

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 5.787e+05 / 85
p0 0.003257 ± 3.092e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

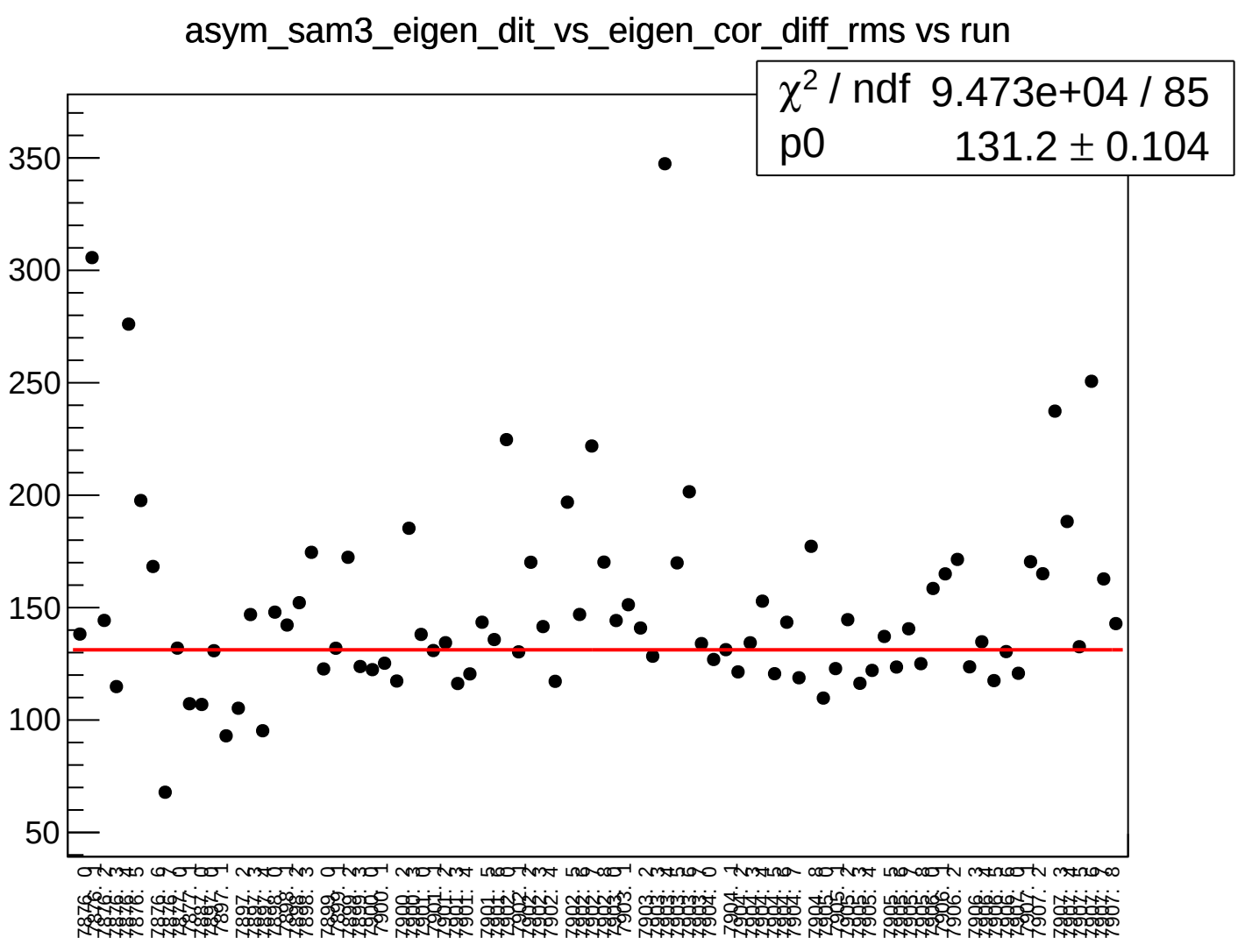

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.99 / 85
p0 −0.04526 ± 0.147
pull
Entries 86
Mean 69.91
Std Dev 0

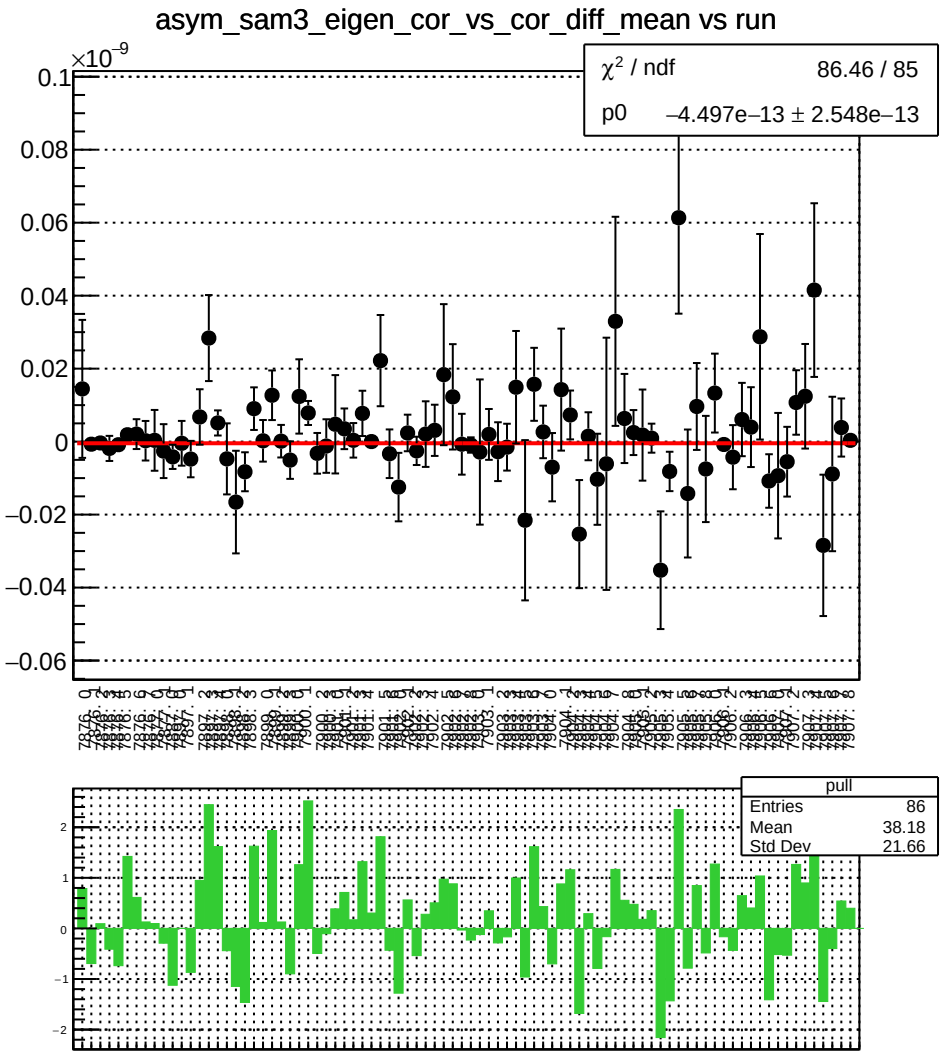

pull1D
Entries 86
Mean 0.03865
Std Dev 0.9454

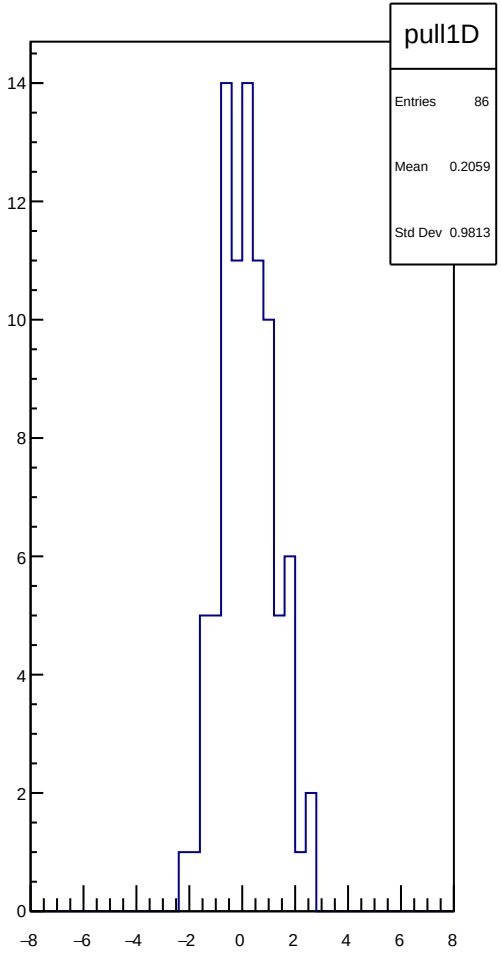

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.473e+04 / 85
p0 131.2 ± 0.104
350
300
250
200
150
100
50

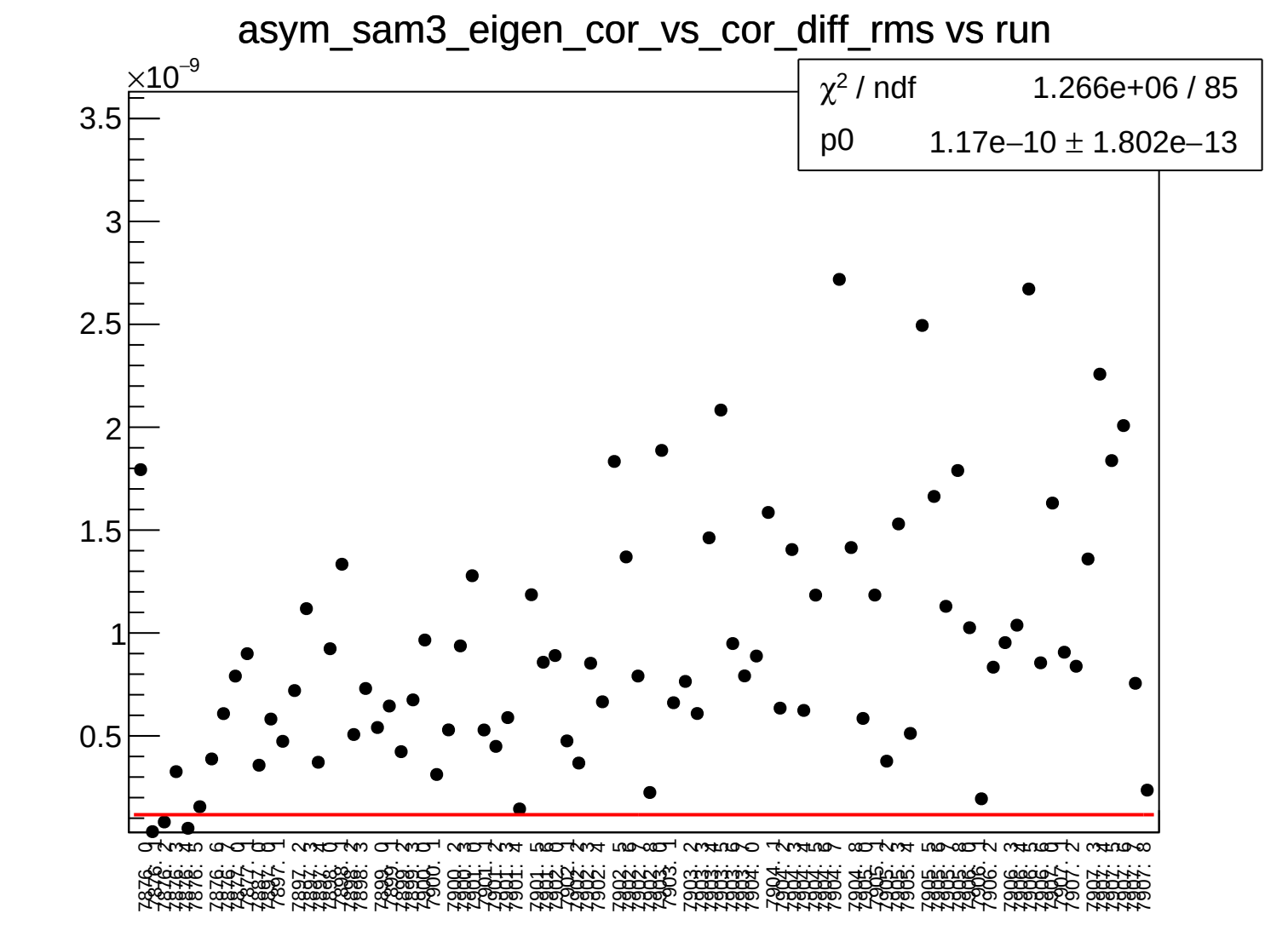

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.99 / 85
p0 −0.04526 ± 0.147
pull
Entries 86
Mean 69.91
Std Dev 0

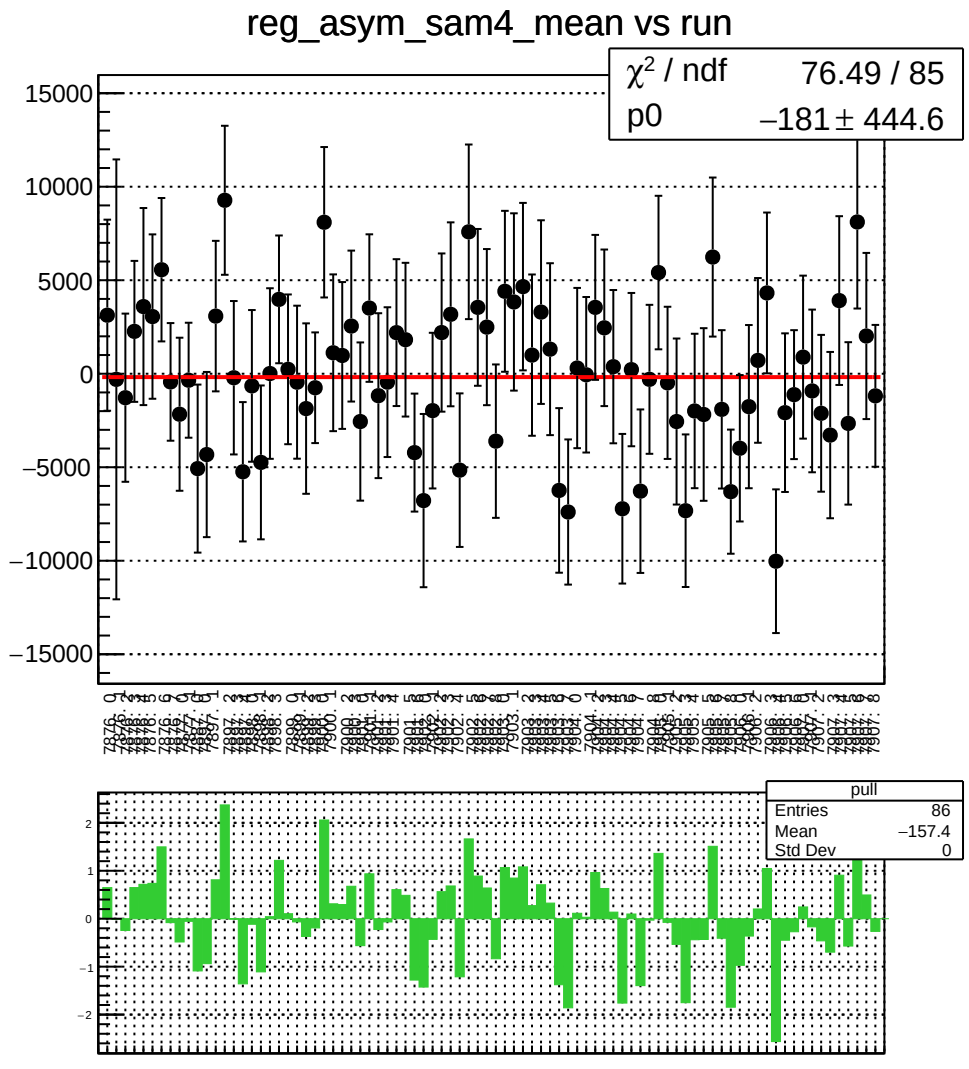

pull1D
Entries 86
Mean 0.03865
Std Dev 0.9454

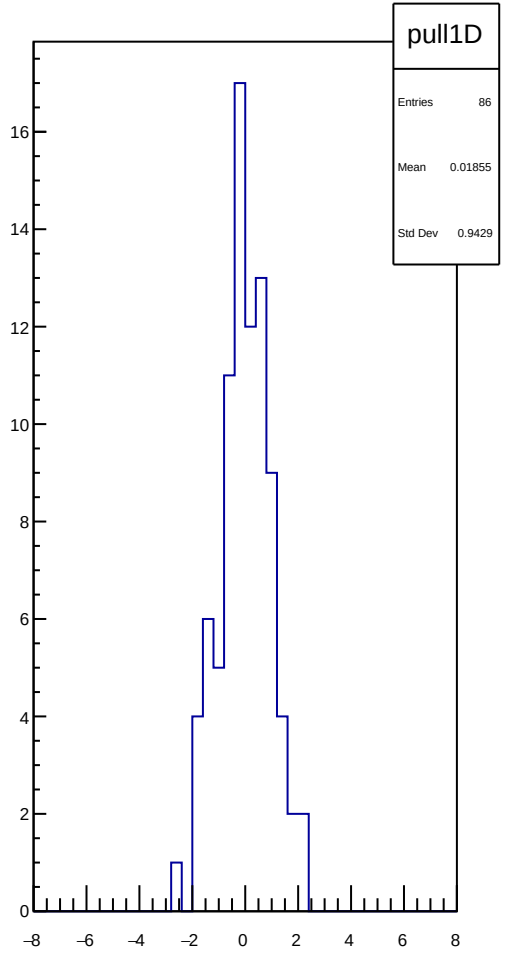

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.473e+04 / 85
p0 131.2 ± 0.104
350
300
250
200
150
100
50

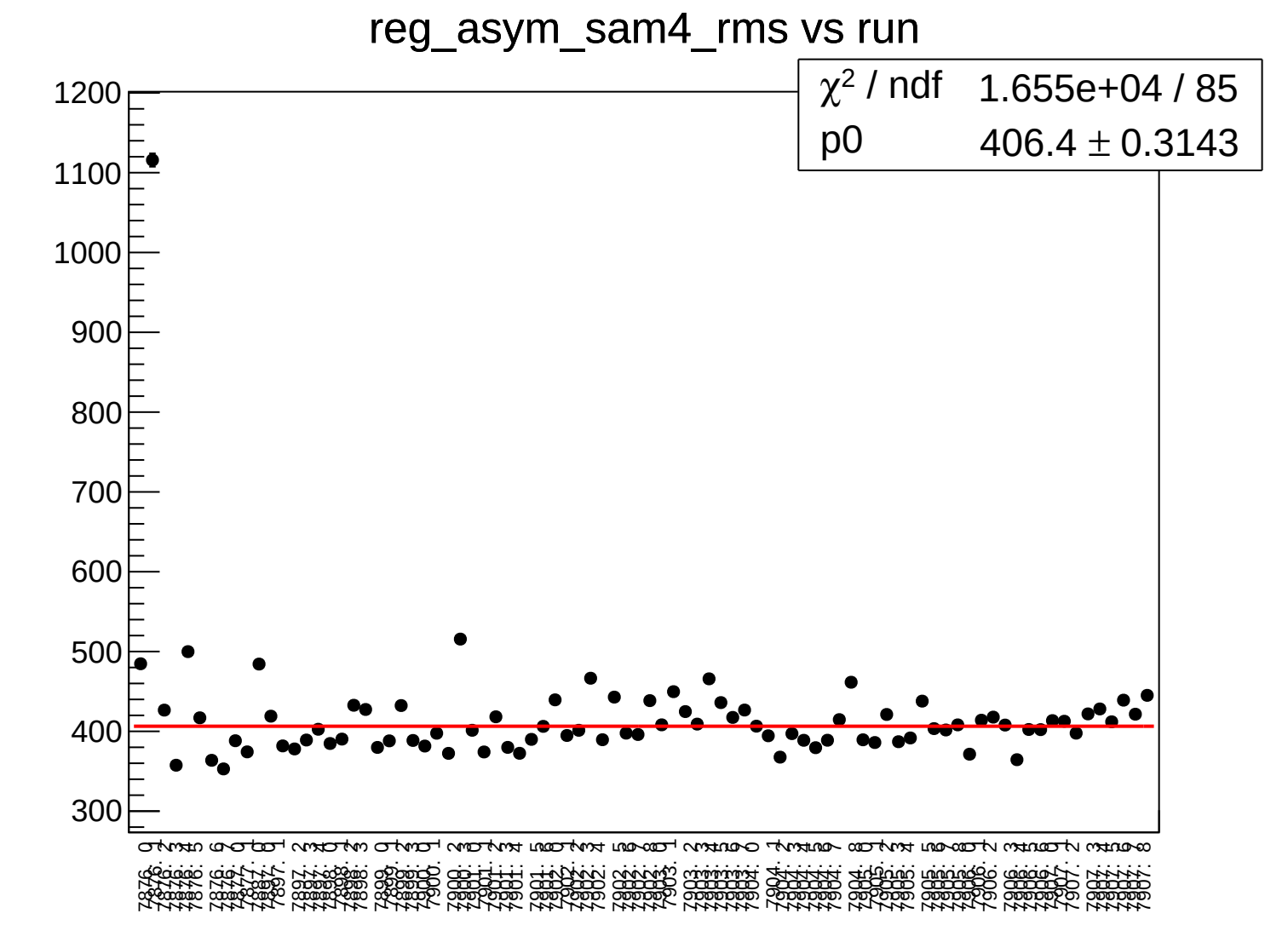

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.46 / 85
p0 −4.497e−13 ± 2.548e−13
pull
Entries 86
Mean 38.18
Std Dev 21.66

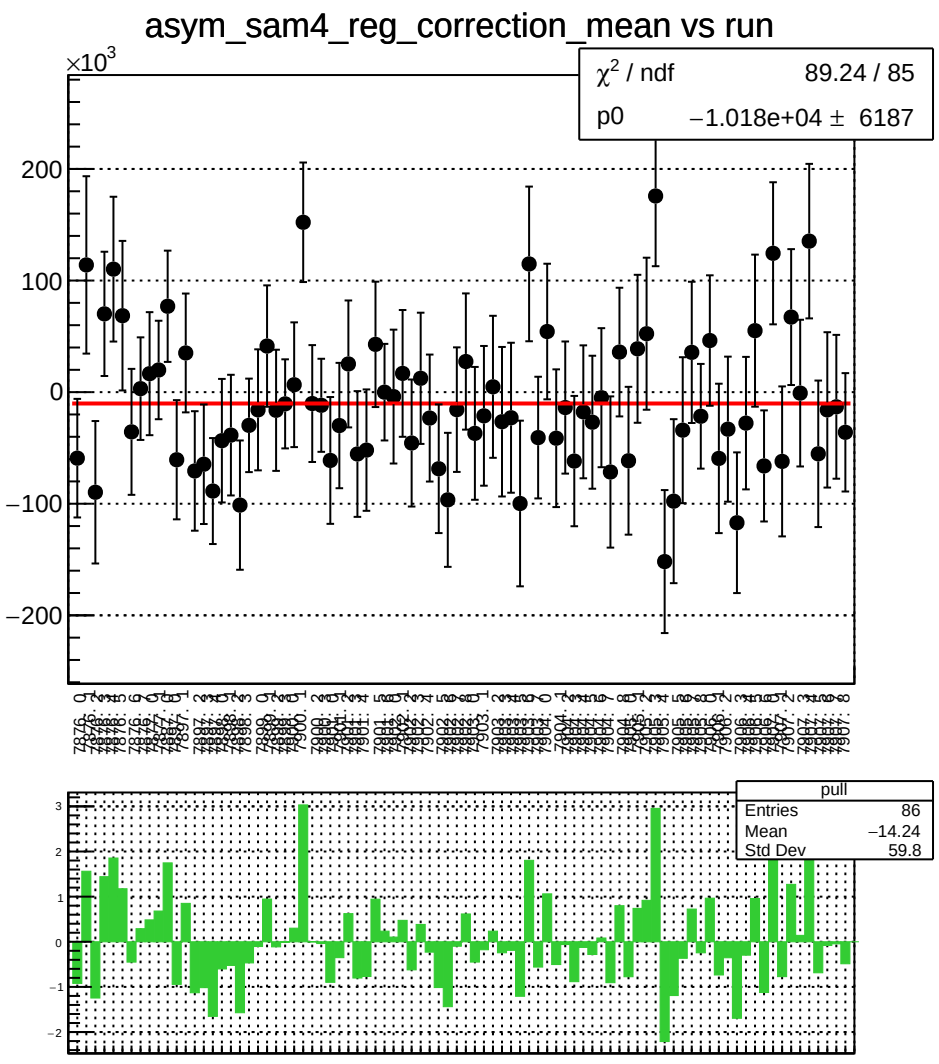

pull1D
Entries 86
Mean 0.2059
Std Dev 0.9813

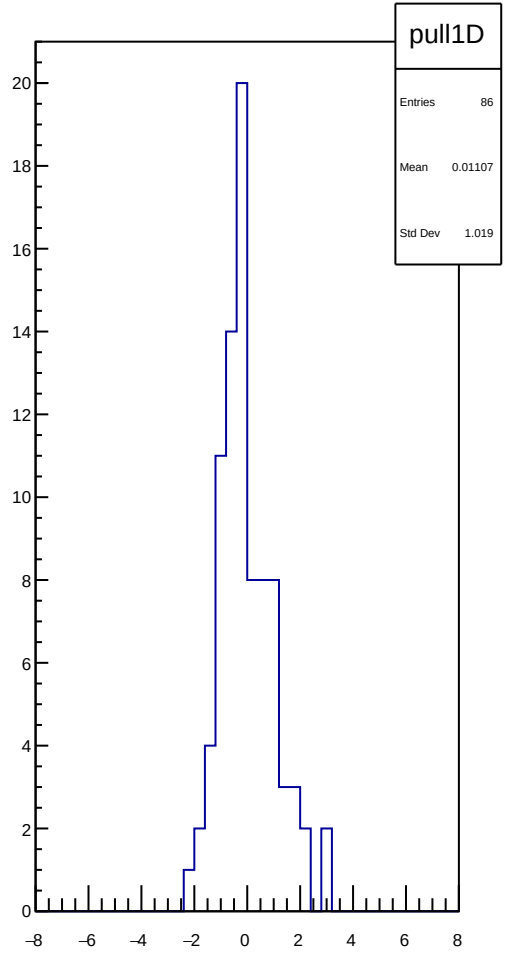

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.266e+06 / 85
p0 1.17e−10 ± 1.802e−13
3.5
3
2.5
2
1.5
1
0.5

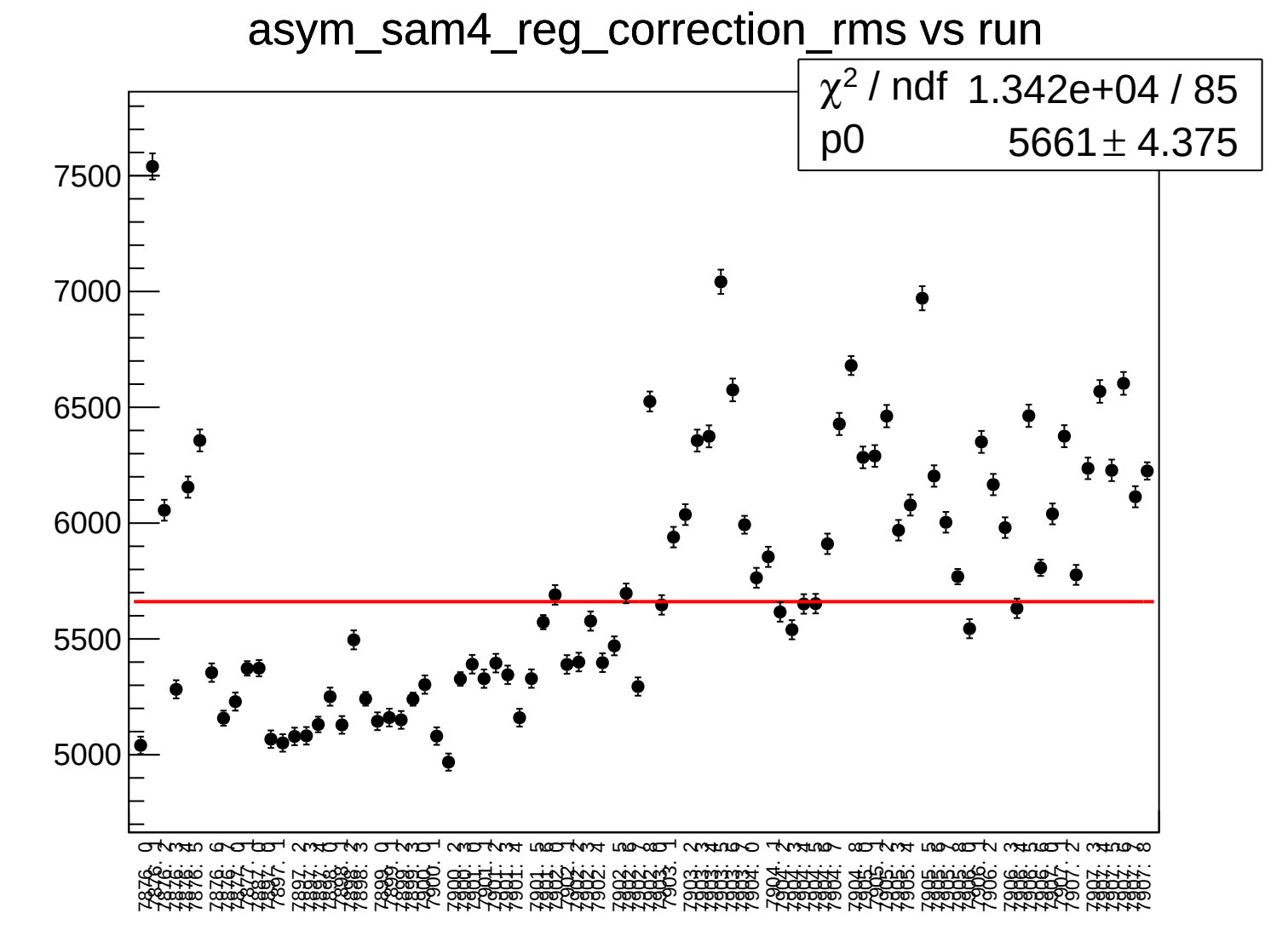

reg_asym_sam4_mean vs run
χ² / ndf 76.49 / 85
p0 −181 ± 444.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −157.4
Std Dev 0
2
1
0
−1
−2

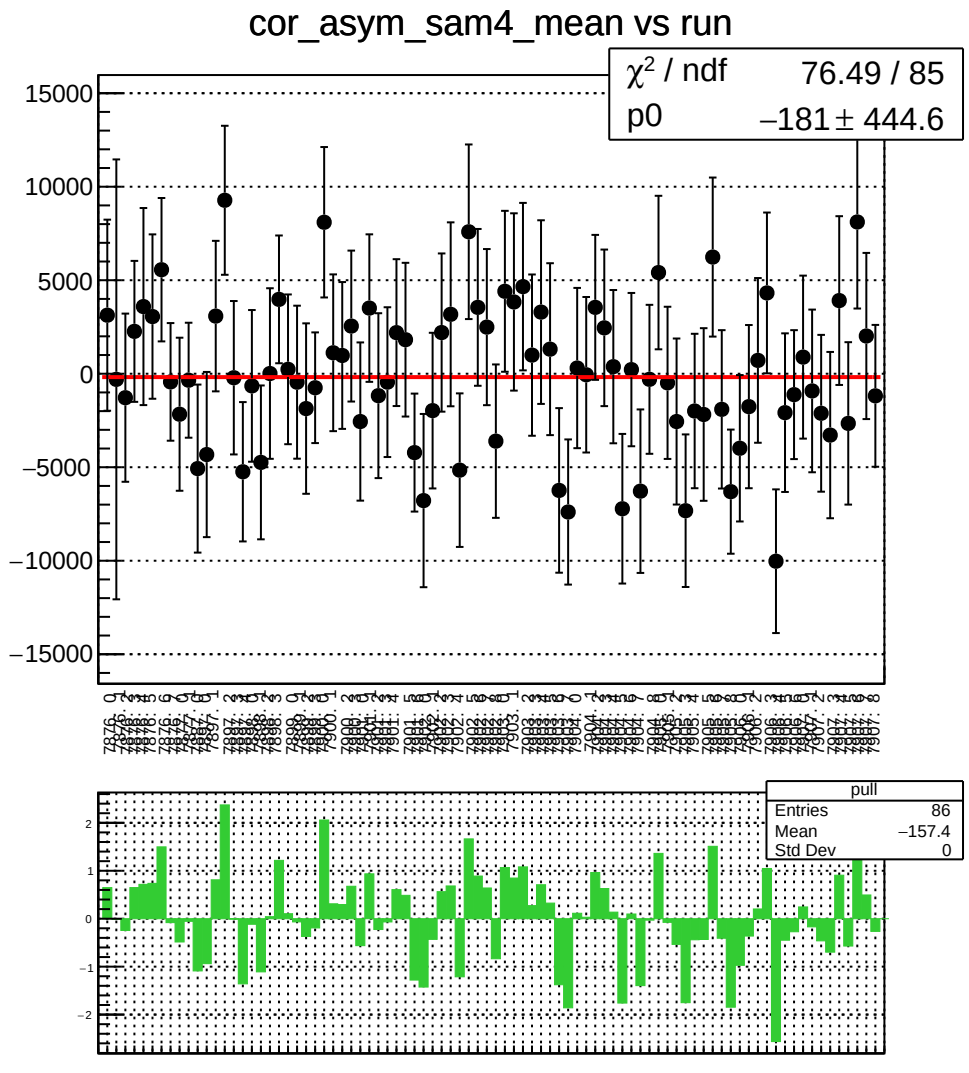

pull1D
Entries 86
Mean 0.01855
Std Dev 0.9429
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

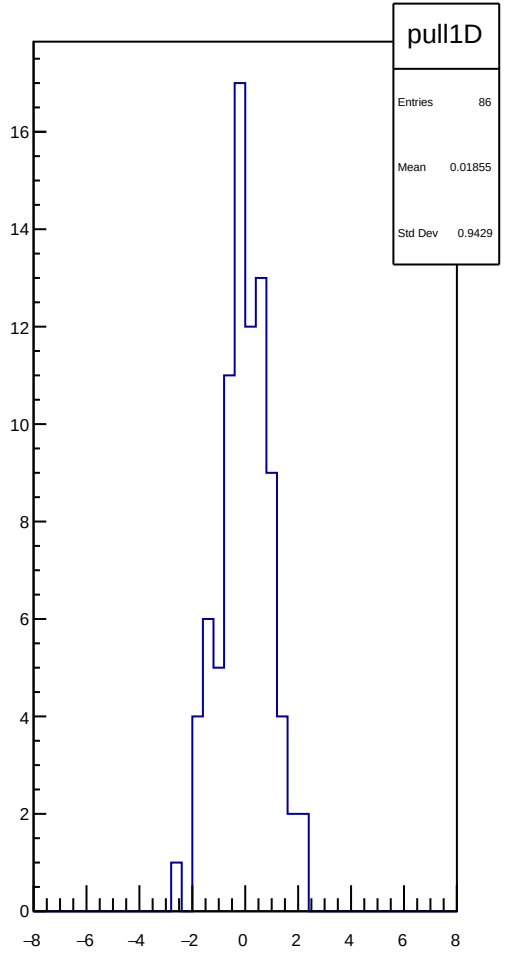

reg_asym_sam4_rms vs run
χ² / ndf 1.655e+04 / 85
p0 406.4 ± 0.3143
1200
1100
1000
900
800
700
600
500
400
300

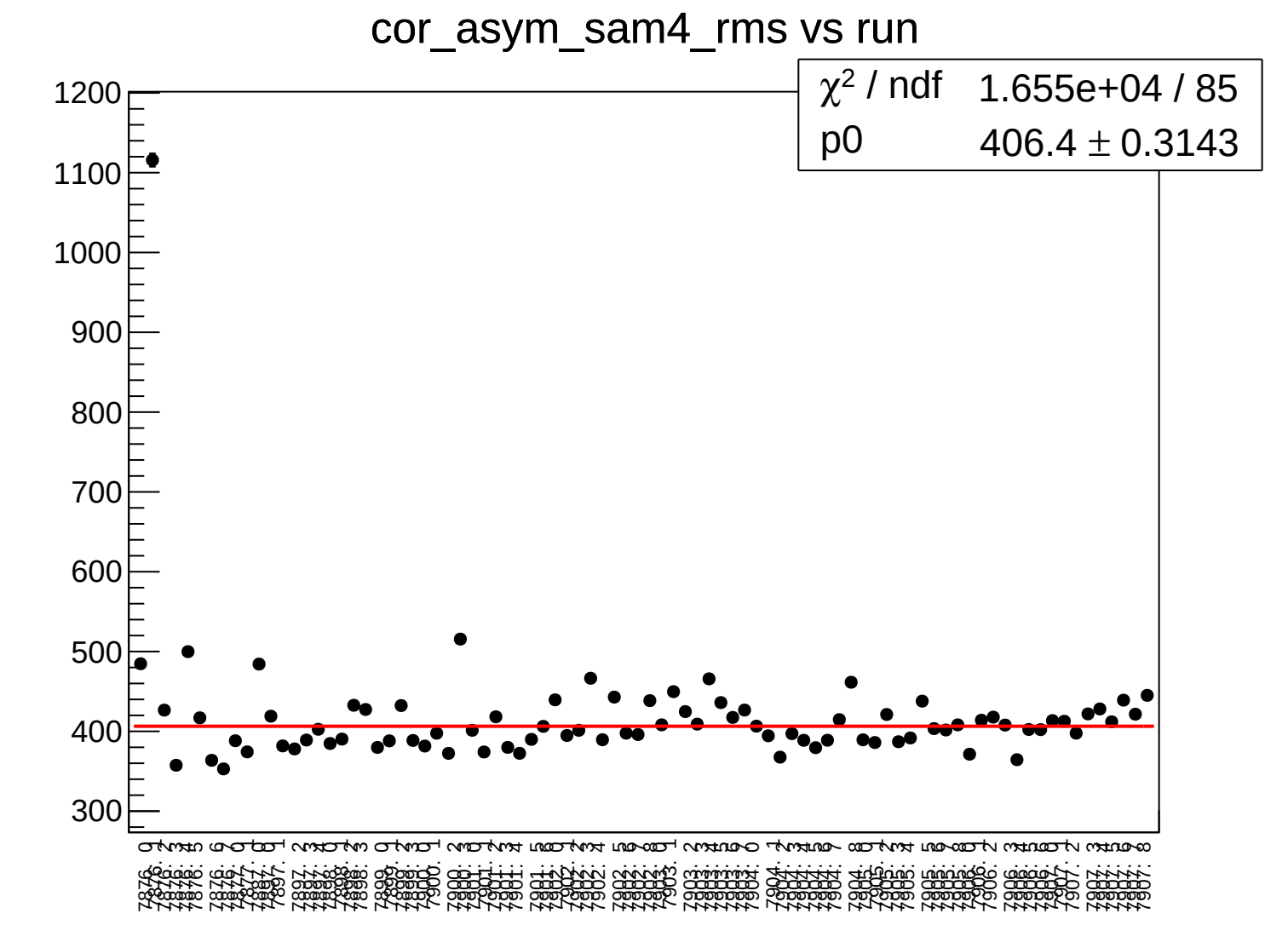

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 89.24 / 85
p0 −1.018e+04 ± 6187
200
100
0
−100
−200
pull
Entries 86
Mean −14.24
Std Dev 59.8
3
2
1
0
−1
−2

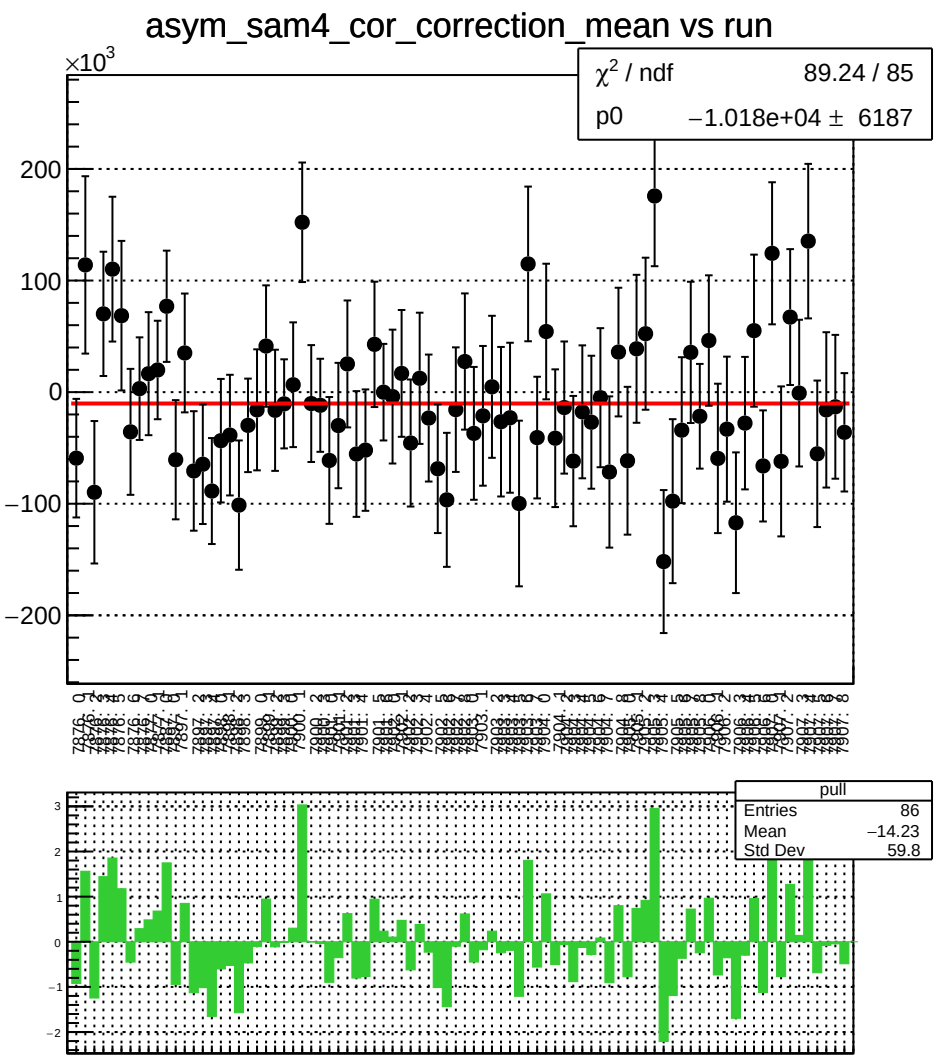

pull1D
Entries 86
Mean 0.01107
Std Dev 1.019
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

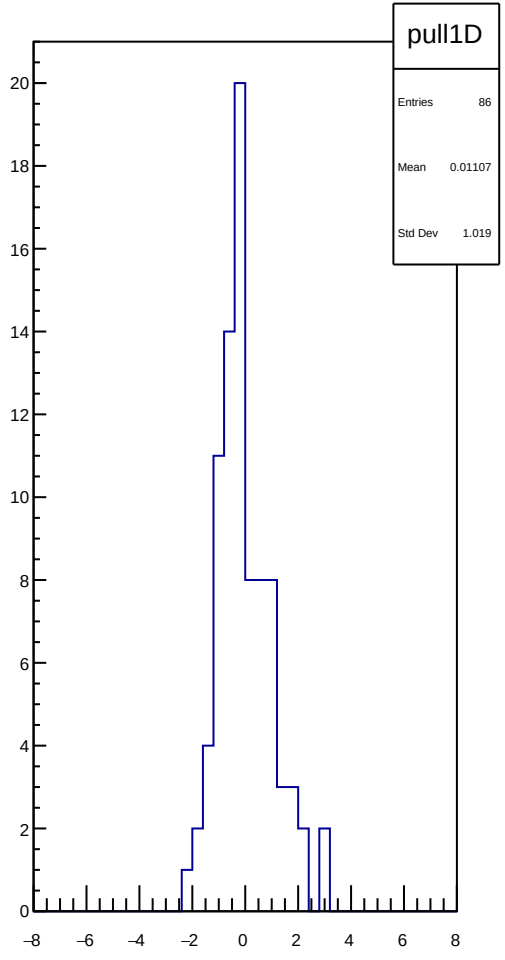

asym_sam4_reg_correction_rms vs run
χ² / ndf 1.342e+04 / 85
p0 5661 ± 4.375
7500
7000
6500
6000
5500
5000


cor_asym_sam4_mean vs run
χ² / ndf 76.49 / 85
p0 −181 ± 444.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −157.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.01855
Std Dev 0.9429
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam4_rms vs run
χ² / ndf 1.655e+04 / 85
p0 406.4 ± 0.3143
1200
1100
1000
900
800
700
600
500
400
300


asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 89.24 / 85
p0 −1.018e+04 ± 6187
200
100
0
−100
−200
pull
Entries 86
Mean −14.23
Std Dev 59.8
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.01107
Std Dev 1.019
20
18
16
14
12
10
8
6
4
2
0
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−6
−4
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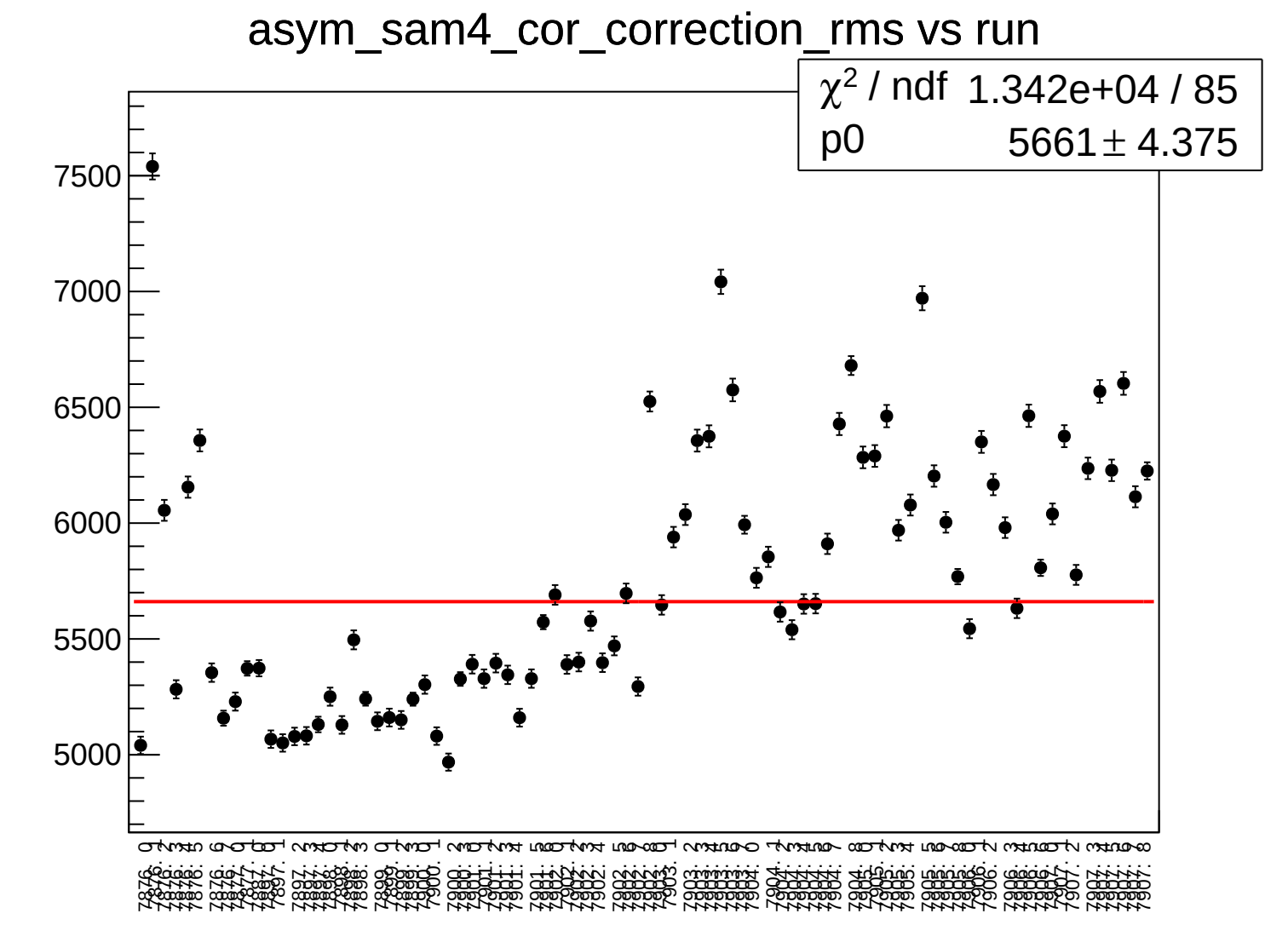
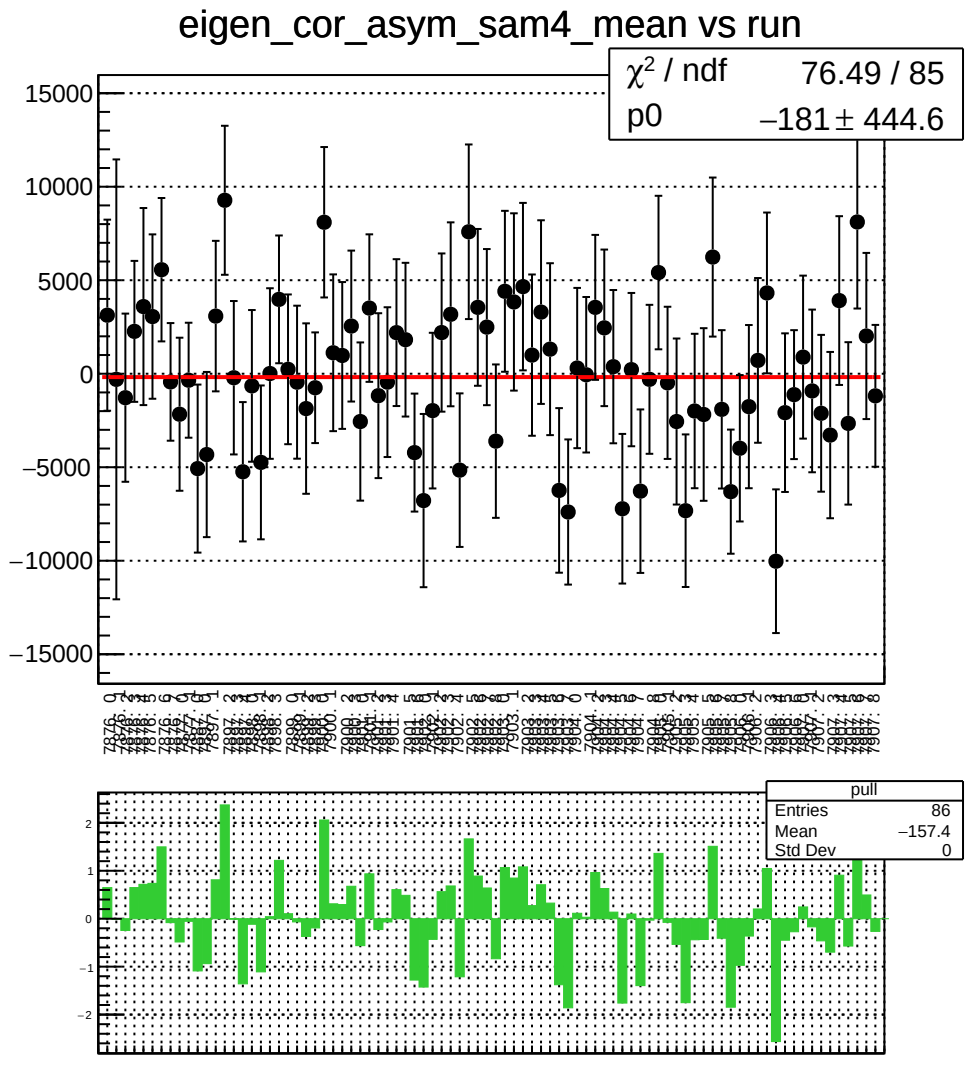
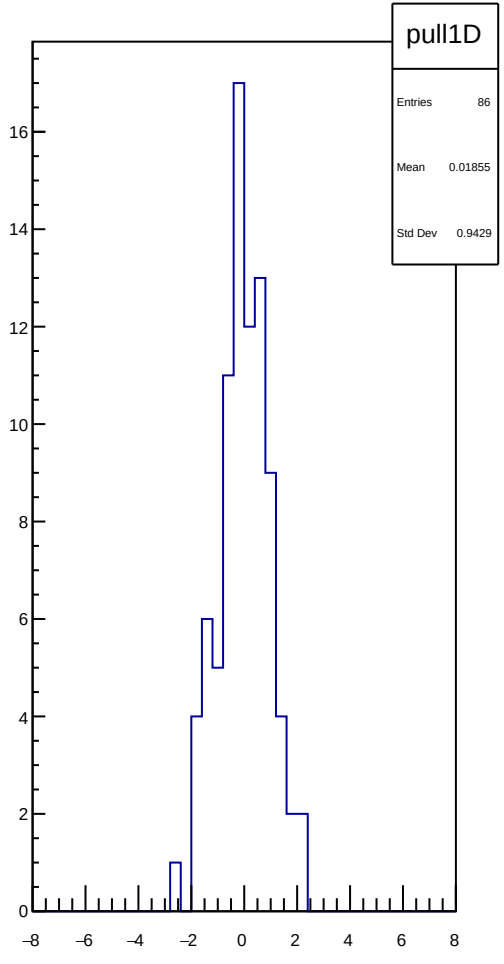
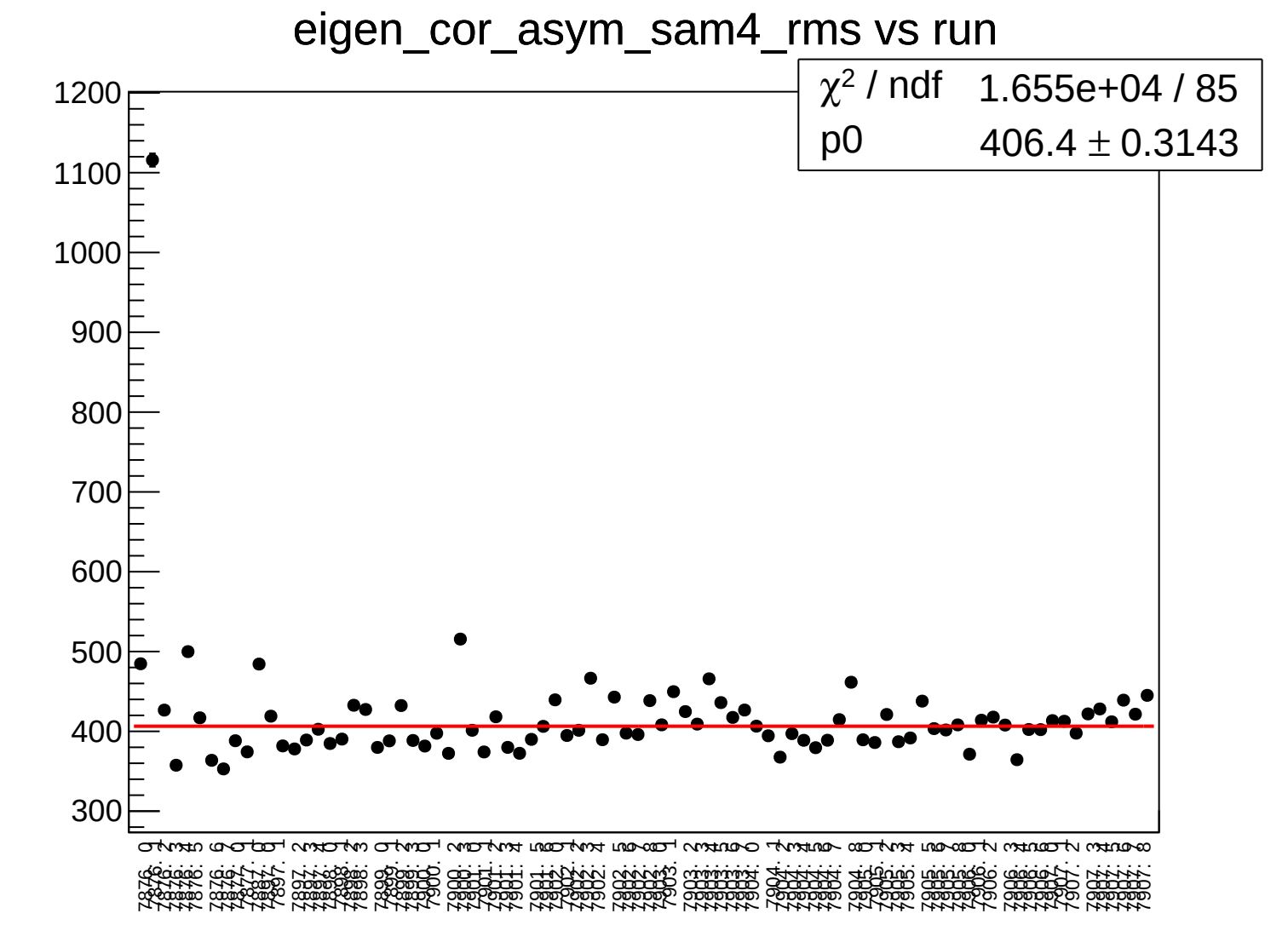
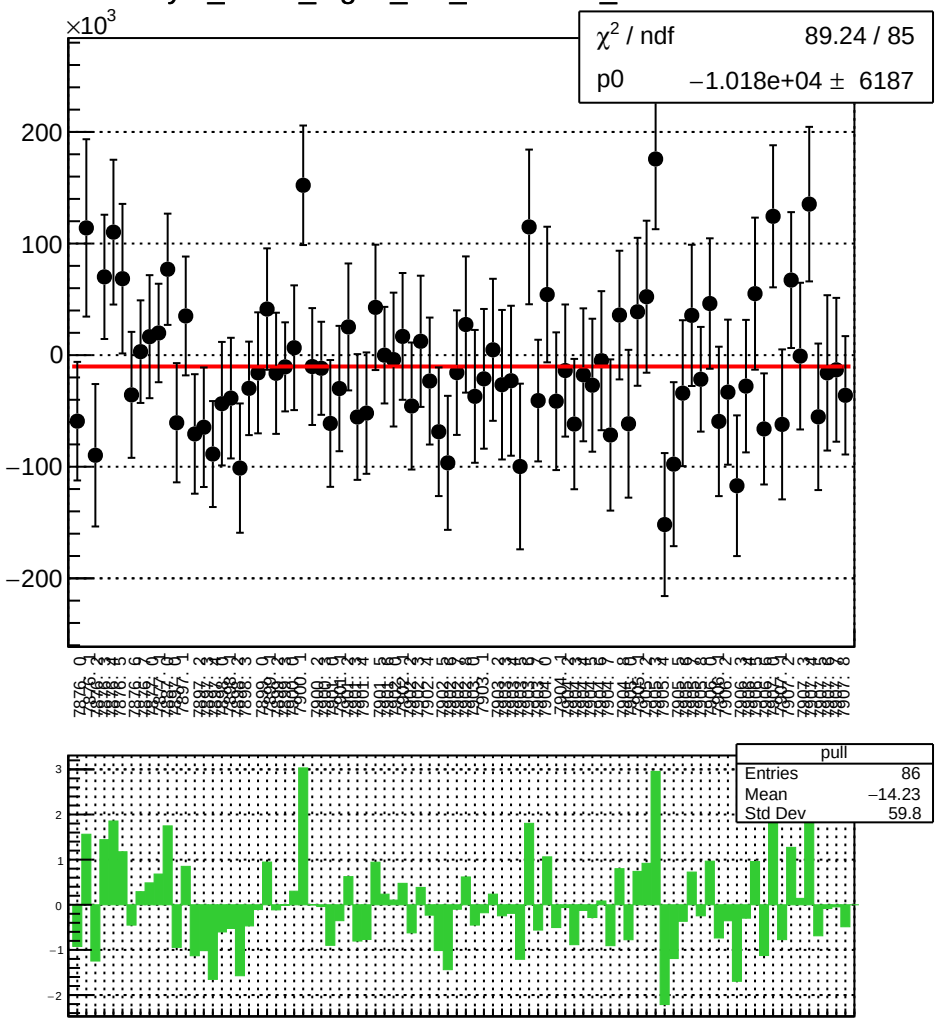
0
2
4
6
8

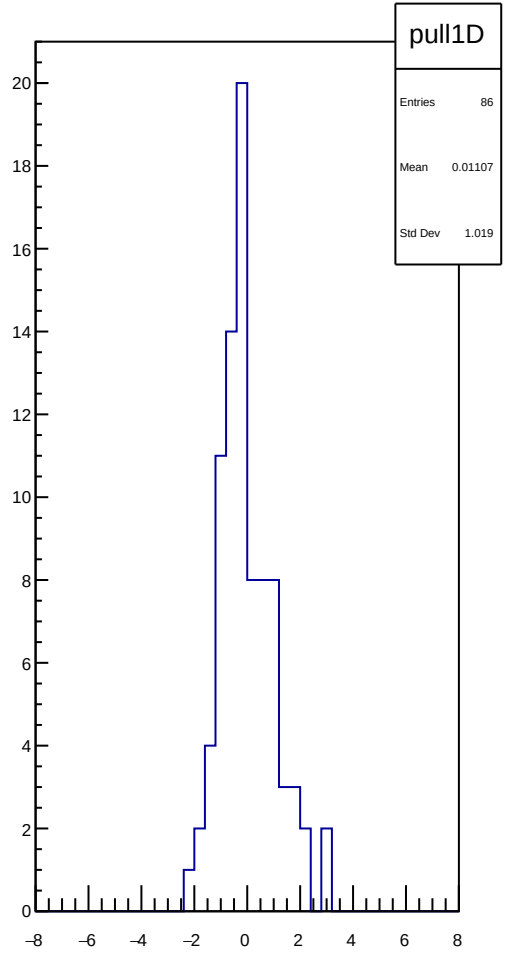

asym_sam4_cor_correction_rms vs run
χ^2 / ndf 1.342e+04 / 85
p0 5661 ± 4.375
7500
7000
6500
6000
5500
5000

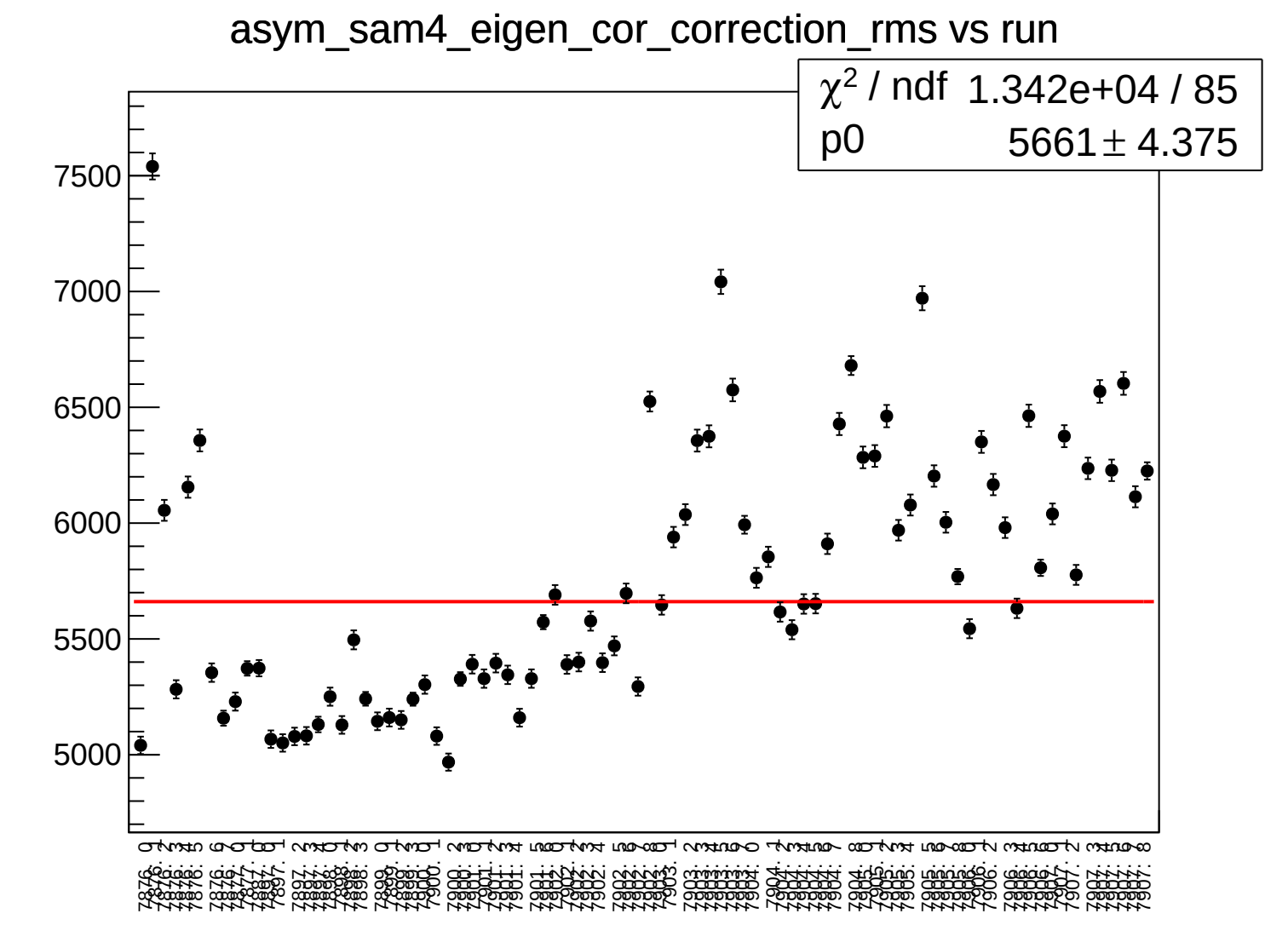

eigen_cor_asym_sam4_mean vs run
χ² / ndf 76.49 / 85
p0 −181 ± 444.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −157.4
Std Dev 0
2
1
0
−1
−2

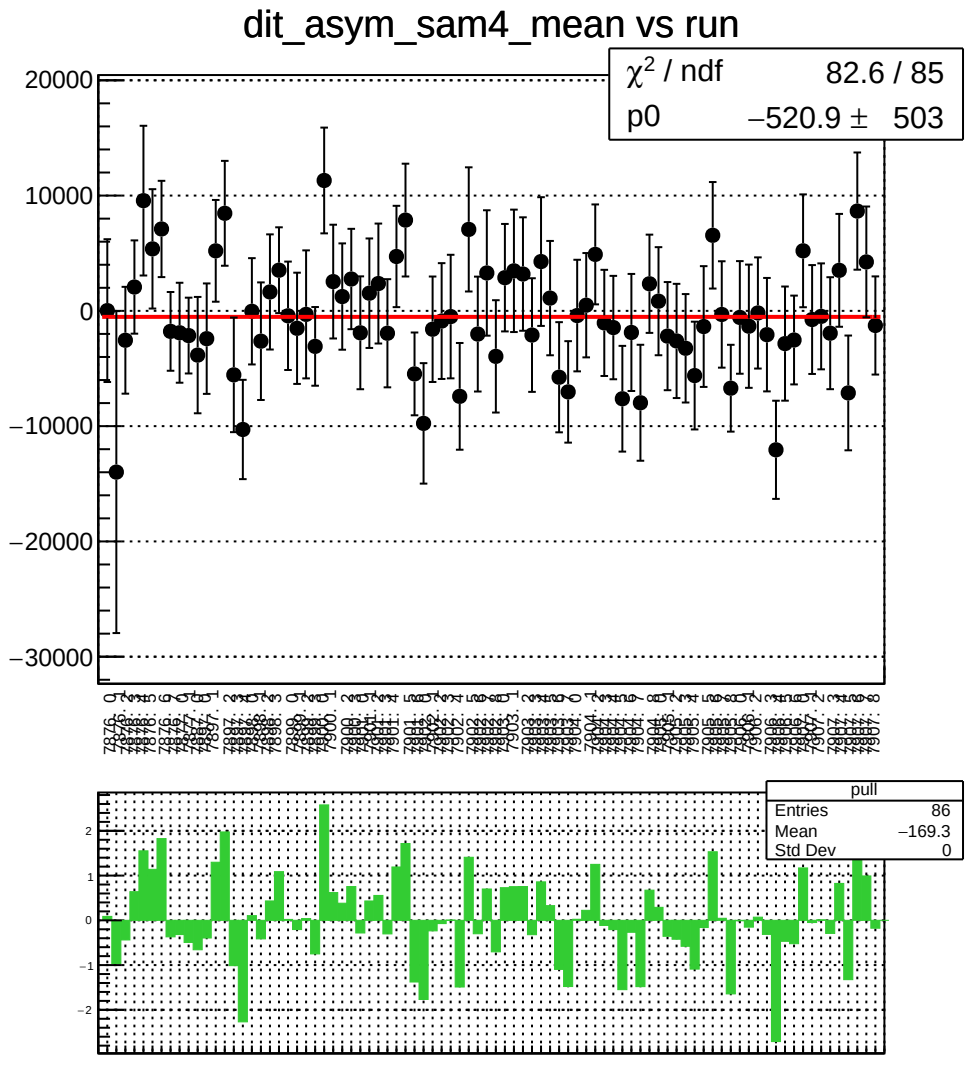

pull1D
Entries 86
Mean 0.01855
Std Dev 0.9429
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

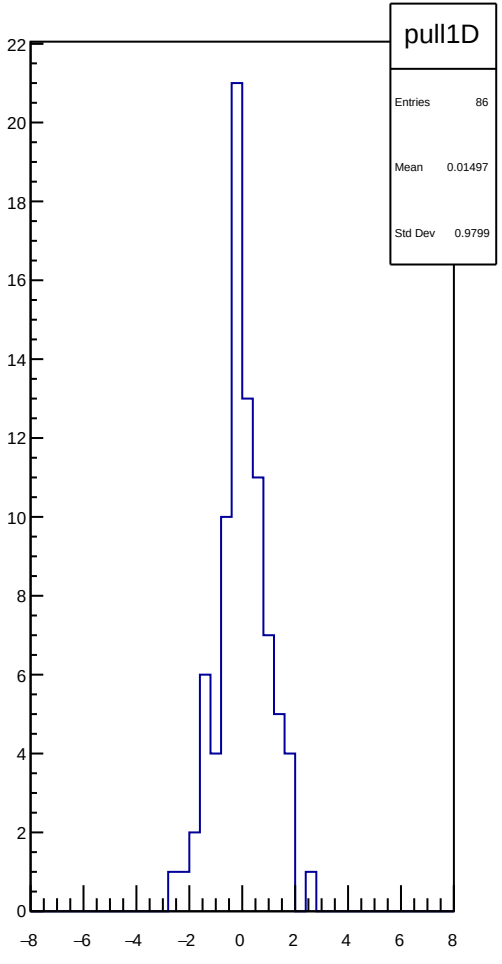

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1.655e+04 / 85
p0 406.4 ± 0.3143
1200
1100
1000
900
800
700
600
500
400
300

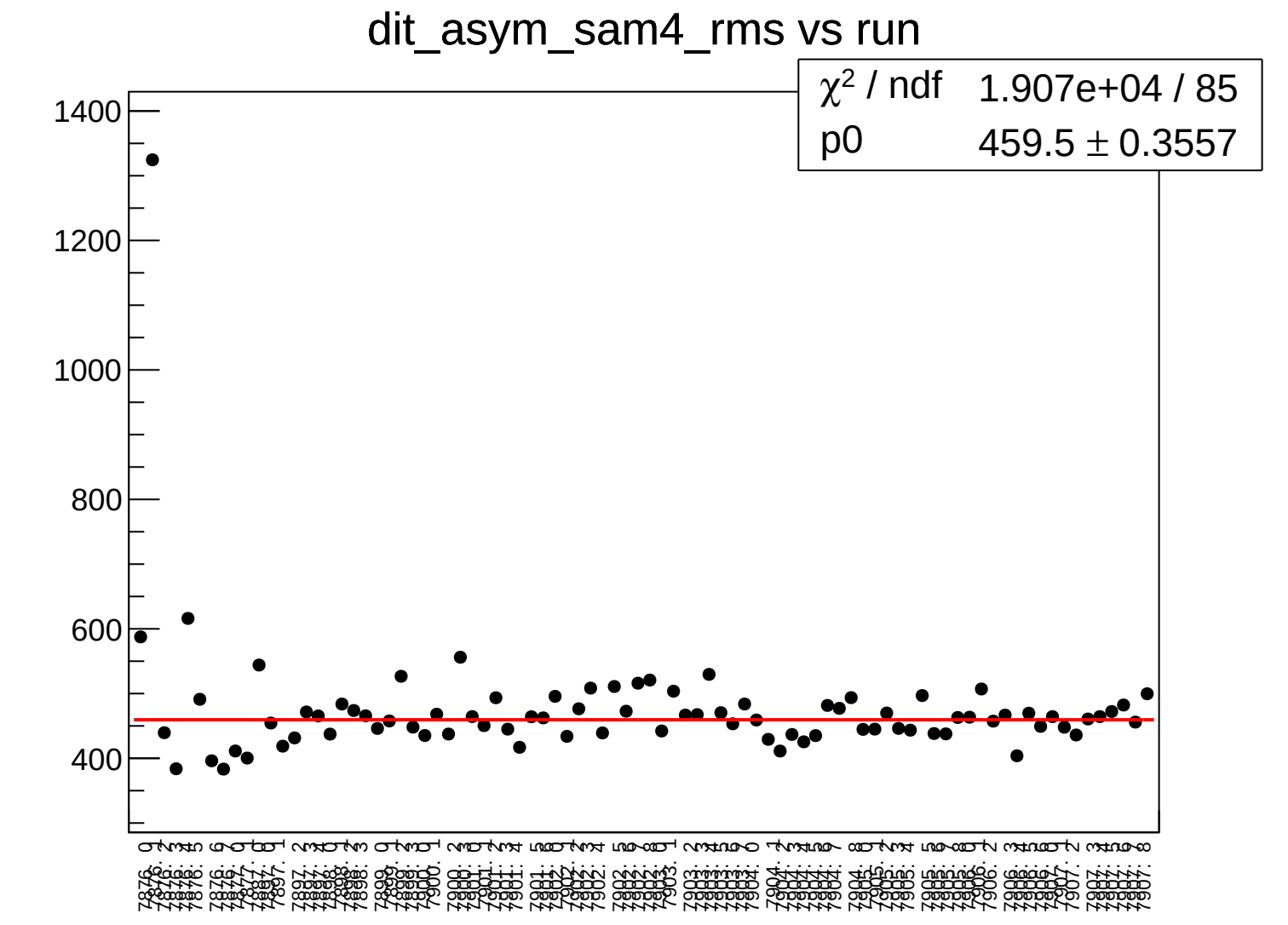

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.24 / 85
p0 −1.018e+04 ± 6187
200
100
0
−100
−200
pull
Entries 86
Mean −14.23
Std Dev 59.8
3
2
1
0
−1
−2

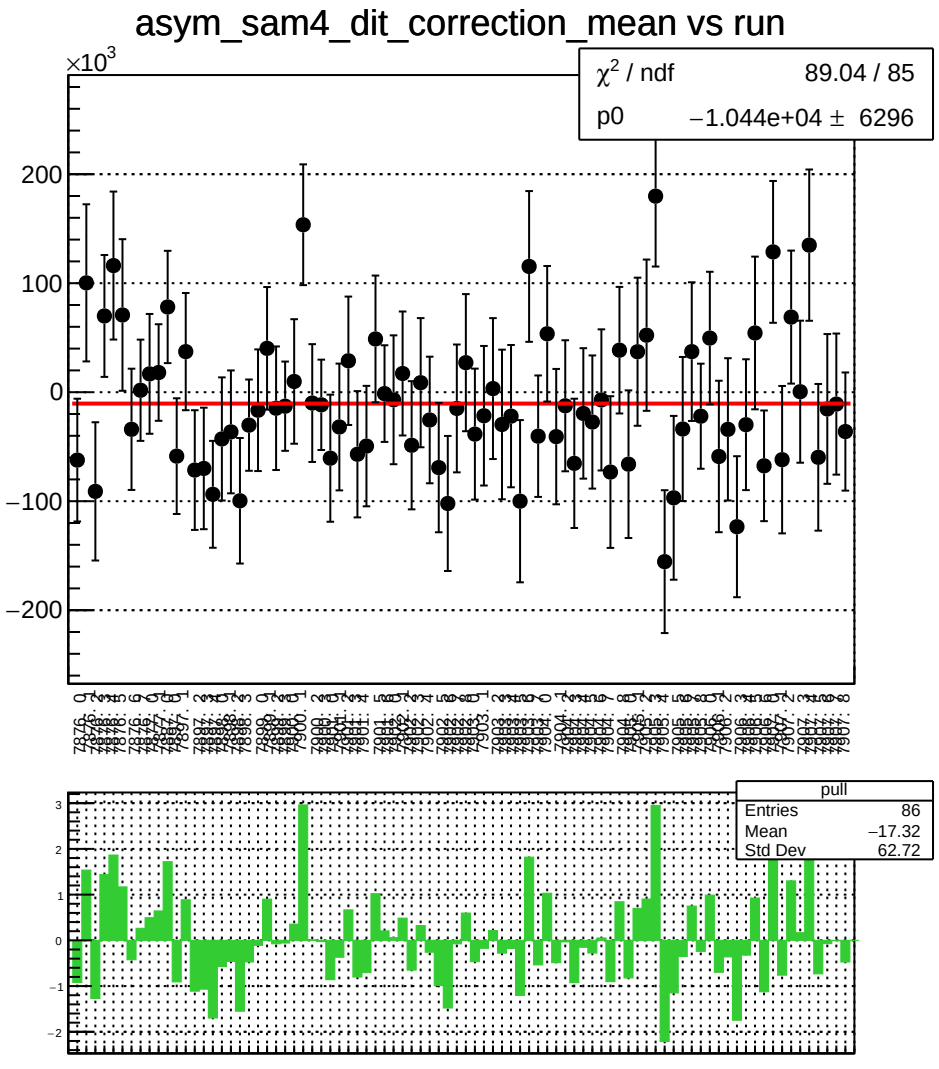

pull1D
Entries 86
Mean 0.01107
Std Dev 1.019
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

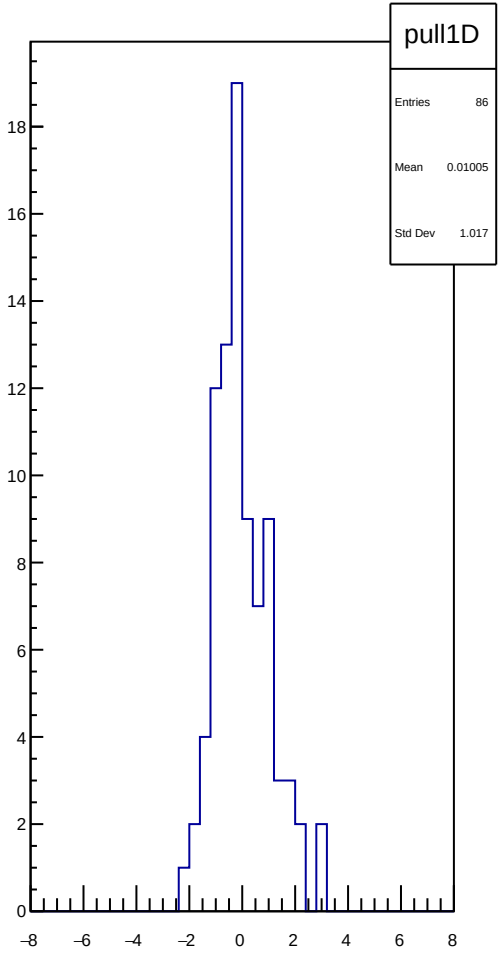

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 1.342e+04 / 85
p0 5661 ± 4.375
7500
7000
6500
6000
5500
5000

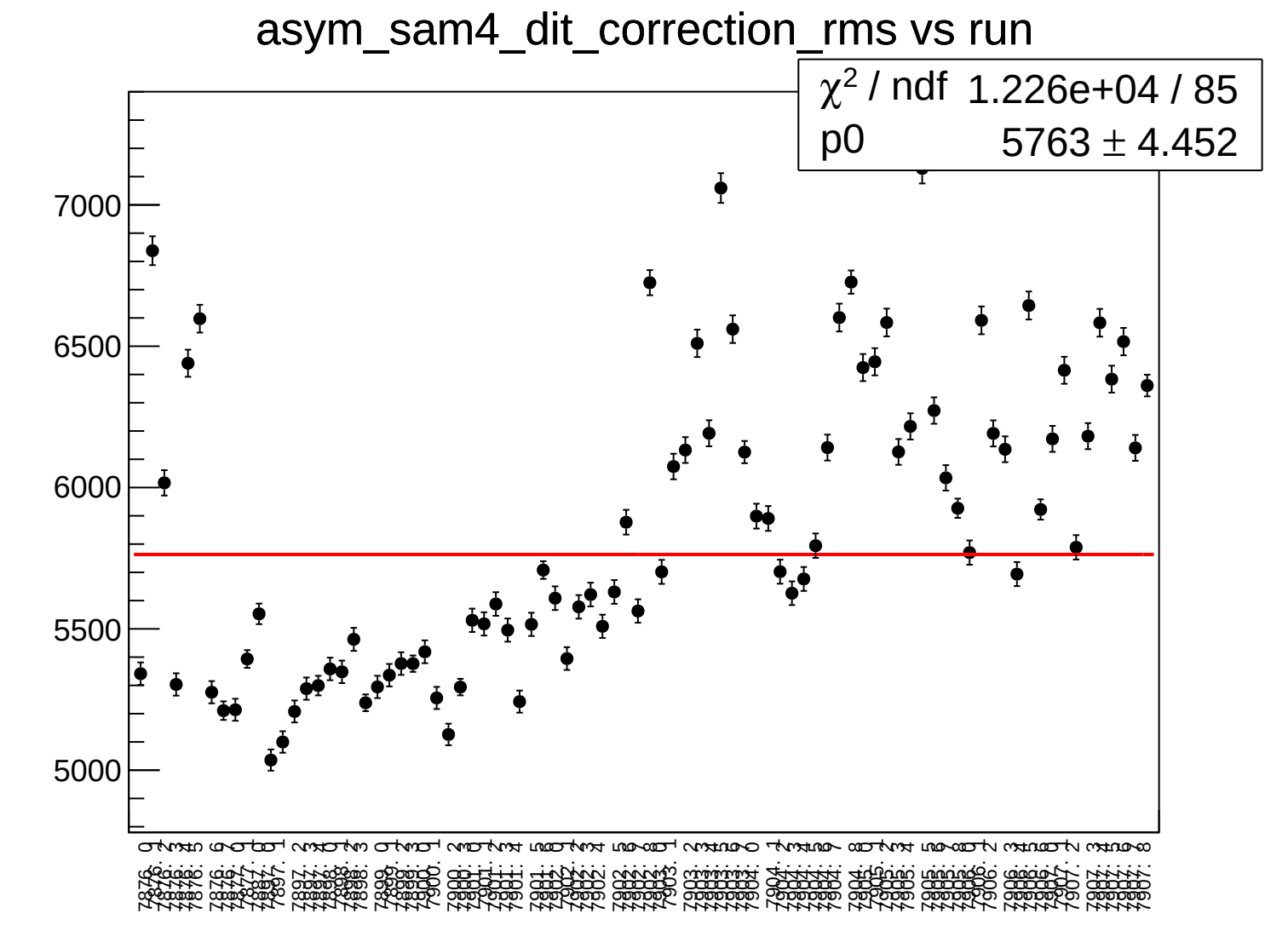

dit_asym_sam4_mean vs run
χ² / ndf 82.6 / 85
p0 −520.9 ± 503
pull
Entries 86
Mean −169.3
Std Dev 0

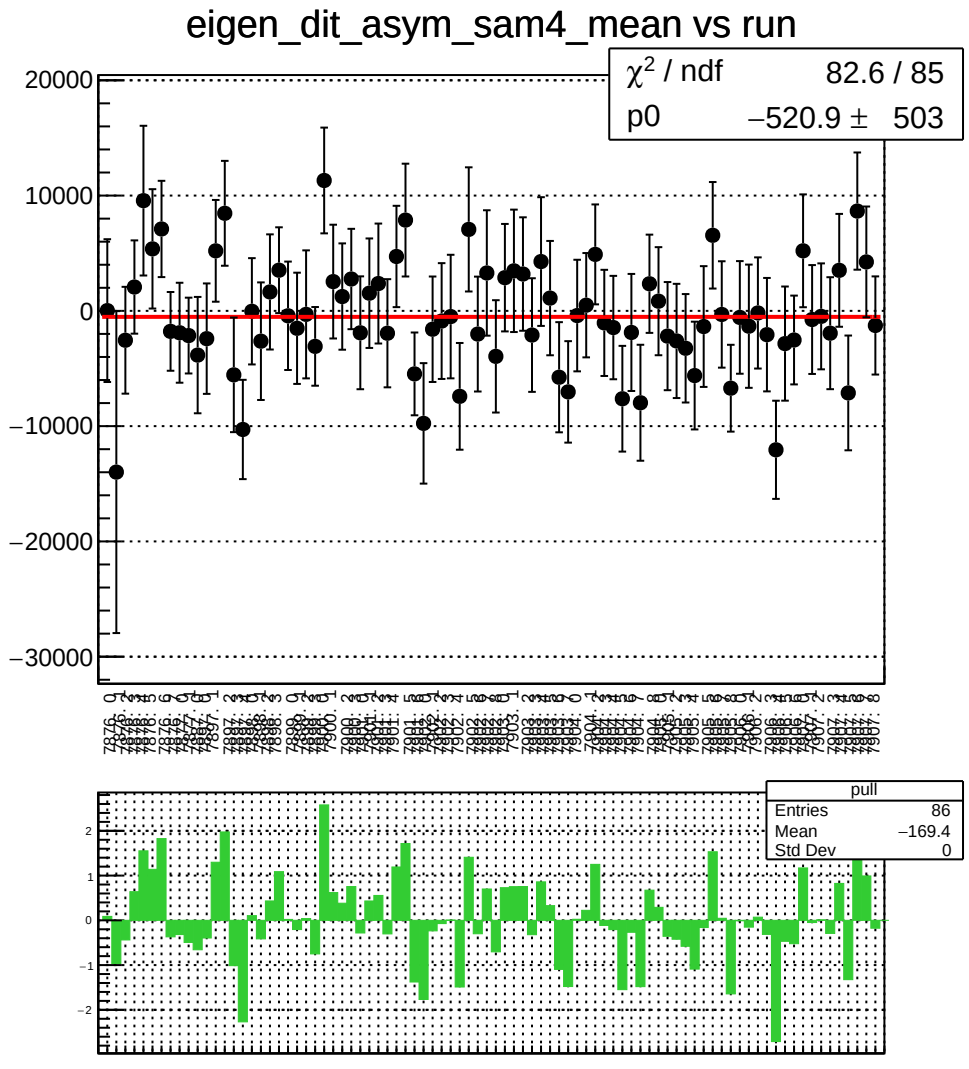

pull1D
Entries 86
Mean 0.01497
Std Dev 0.9799

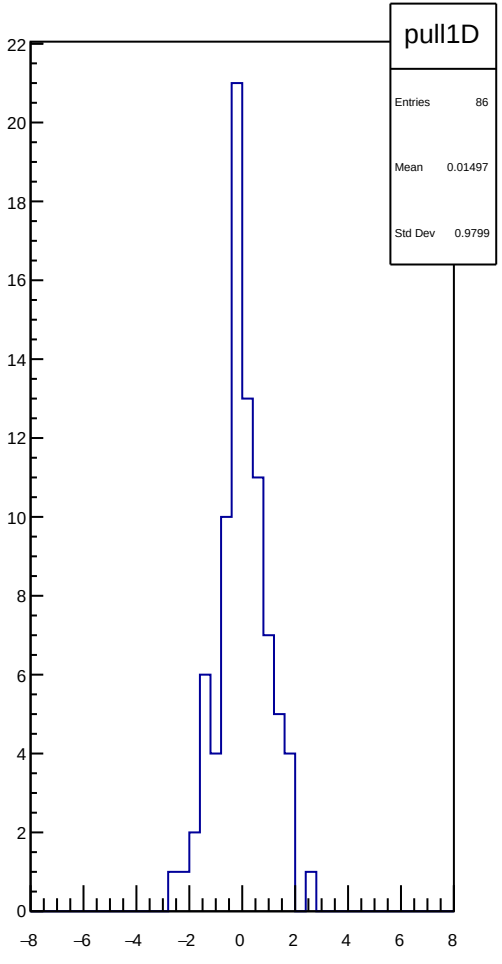

dit_asym_sam4_rms vs run
χ² / ndf 1.907e+04 / 85
p0 459.5 ± 0.3557
1400
1200
1000
800
600
400

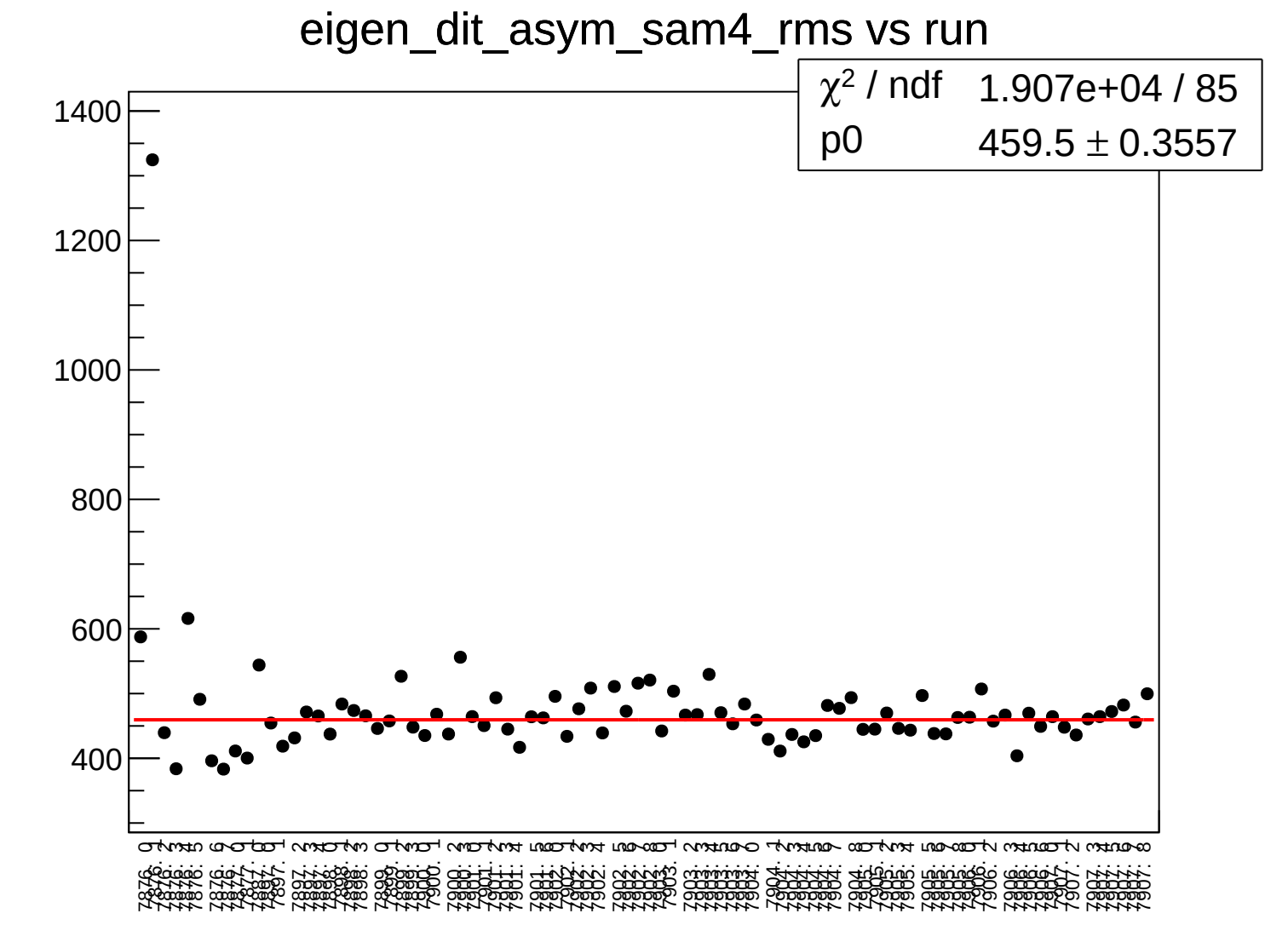

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 89.04 / 85
p0 −1.044e+04 ± 6296
200
100
0
−100
−200
pull
Entries 86
Mean −17.32
Std Dev 62.72
3
2
1
0
−1
−2

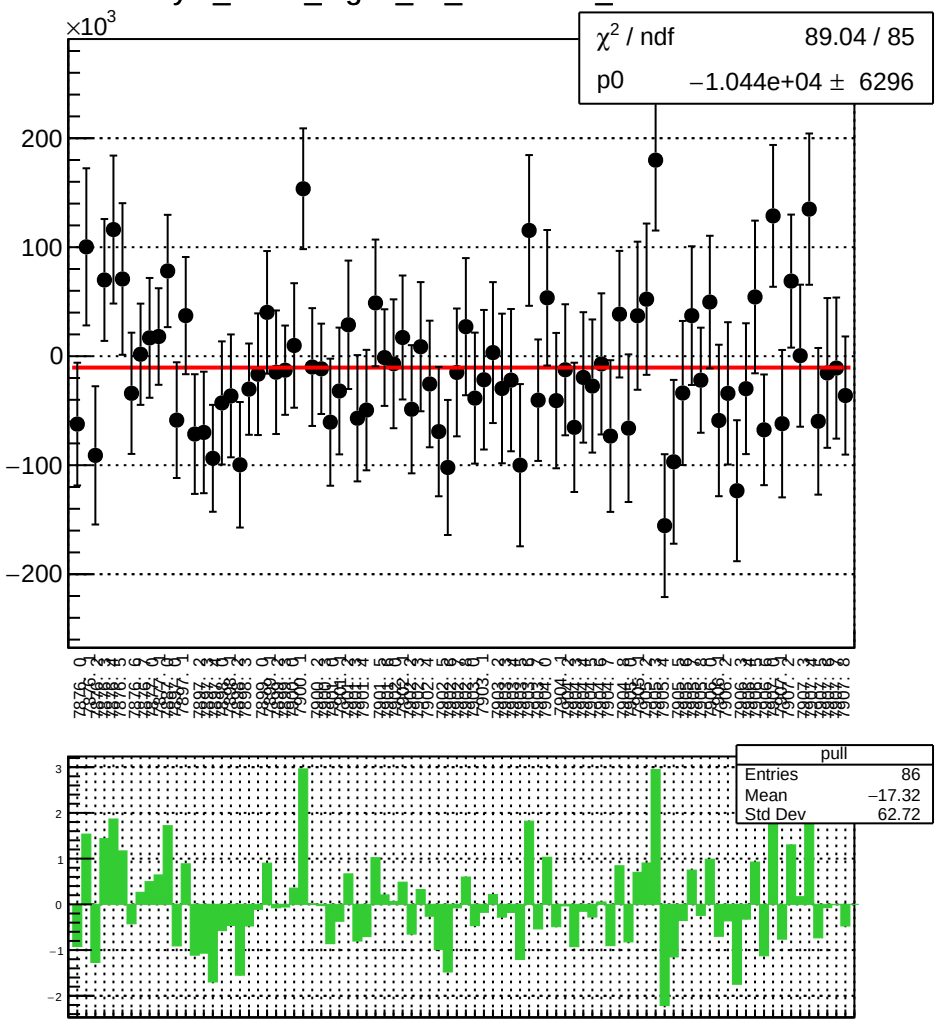

pull1D
Entries 86
Mean 0.01005
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

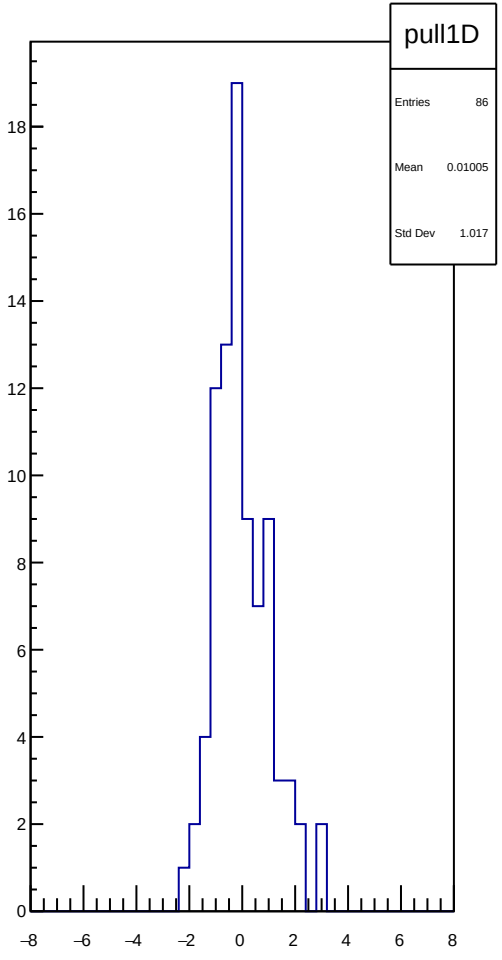

asym_sam4_dit_correction_rms vs run
χ² / ndf 1.226e+04 / 85
p0 5763 ± 4.452
7000
6500
6000
5500
5000

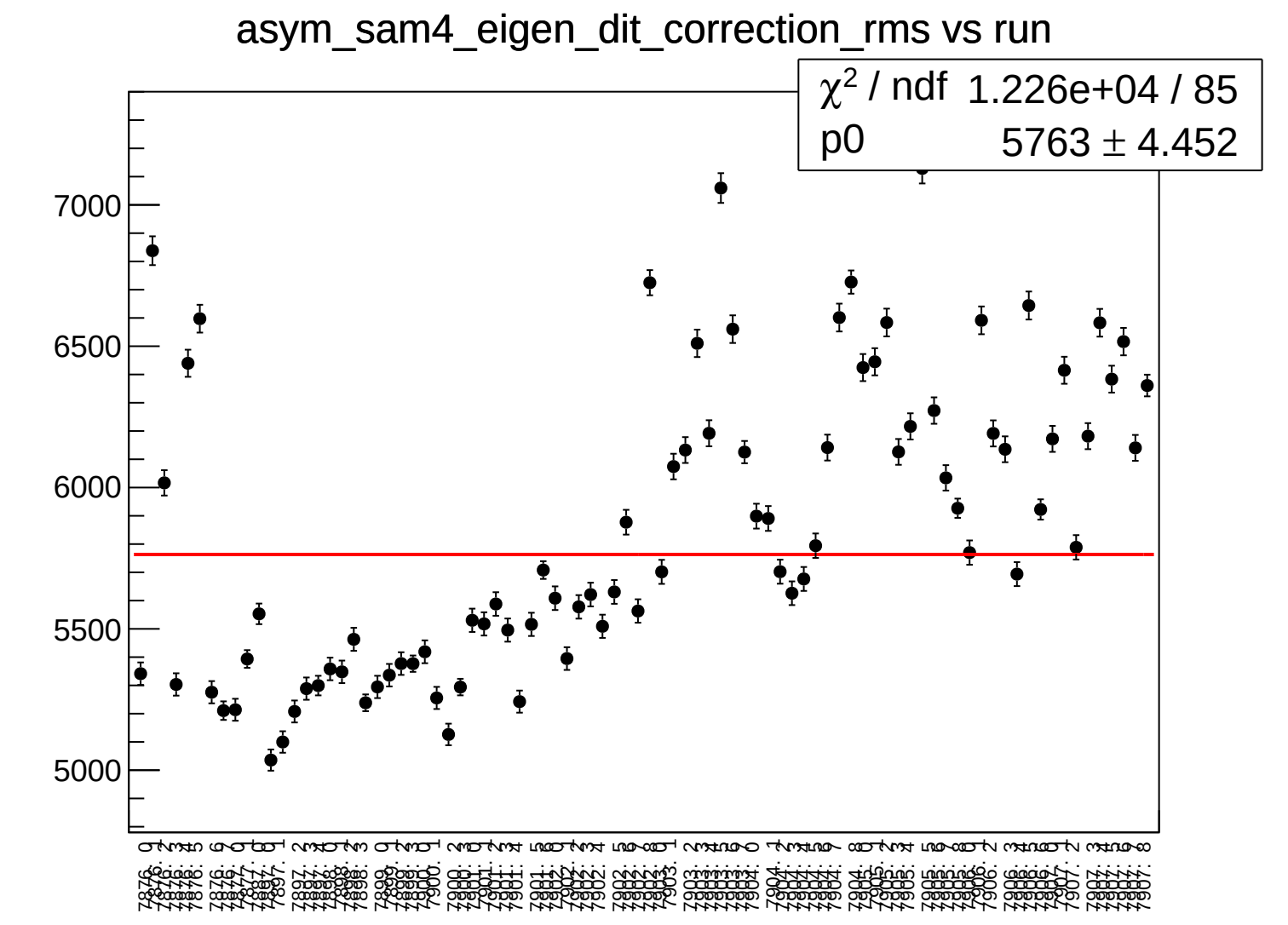

eigen_dit_asym_sam4_mean vs run
χ² / ndf 82.6 / 85
p0 −520.9 ± 503
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −169.4
Std Dev 0
2
1
0
−1
−2

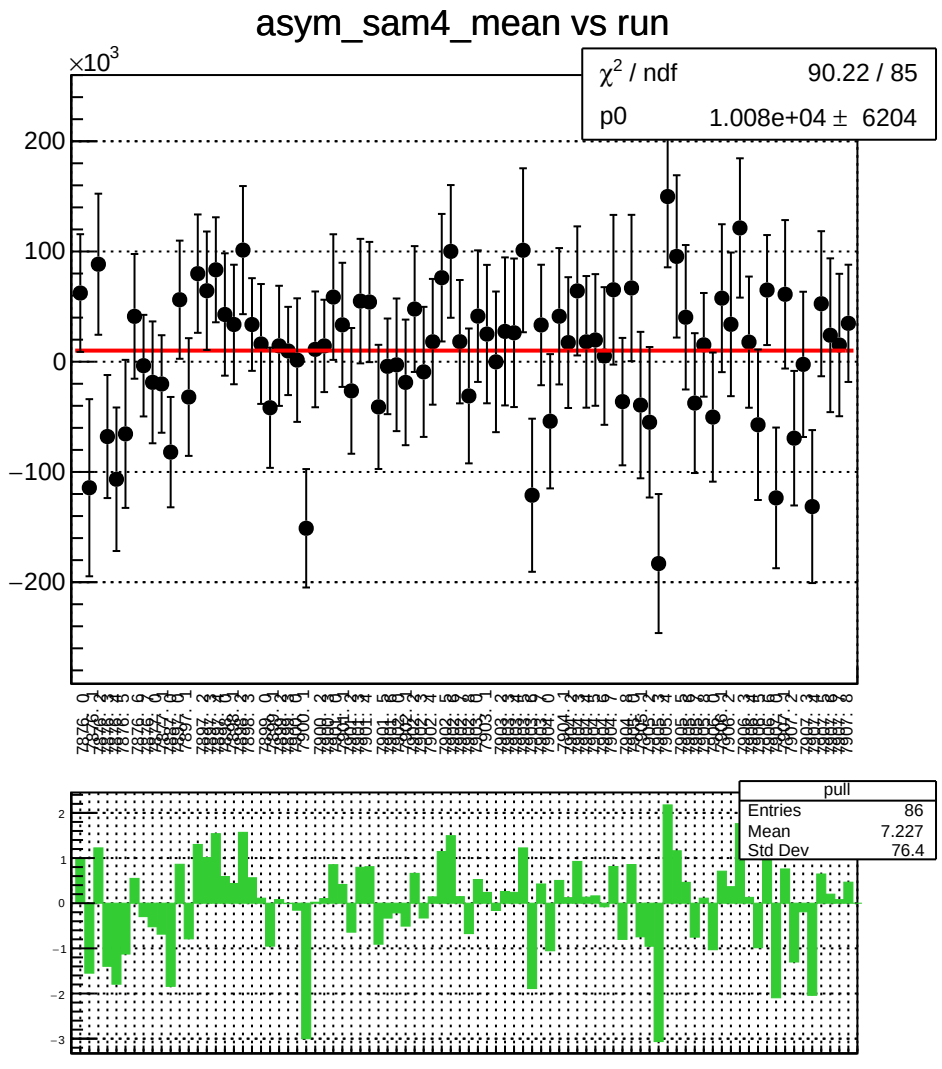

pull1D
Entries 86
Mean 0.01497
Std Dev 0.9799
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

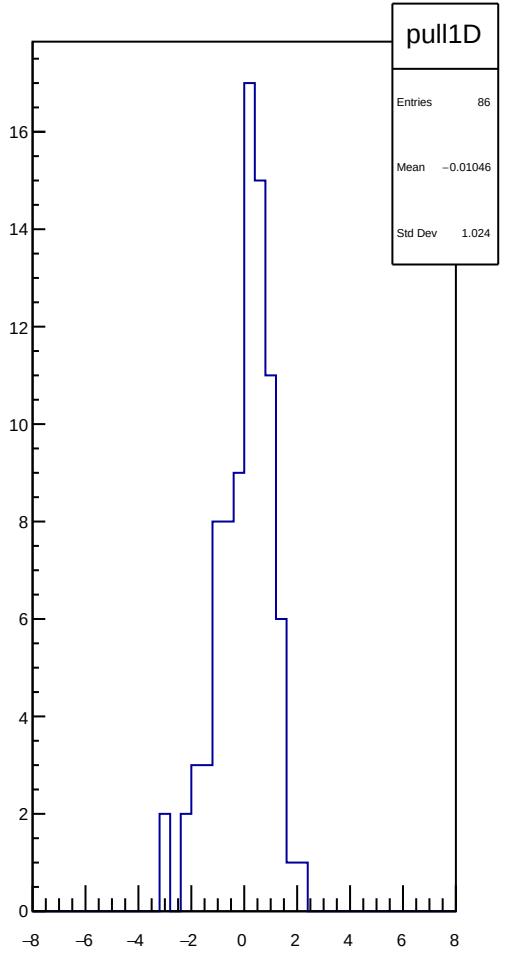

eigen_dit_asym_sam4_rms vs run
χ² / ndf 1.907e+04 / 85
p0 459.5 ± 0.3557
1400
1200
1000
800
600
400

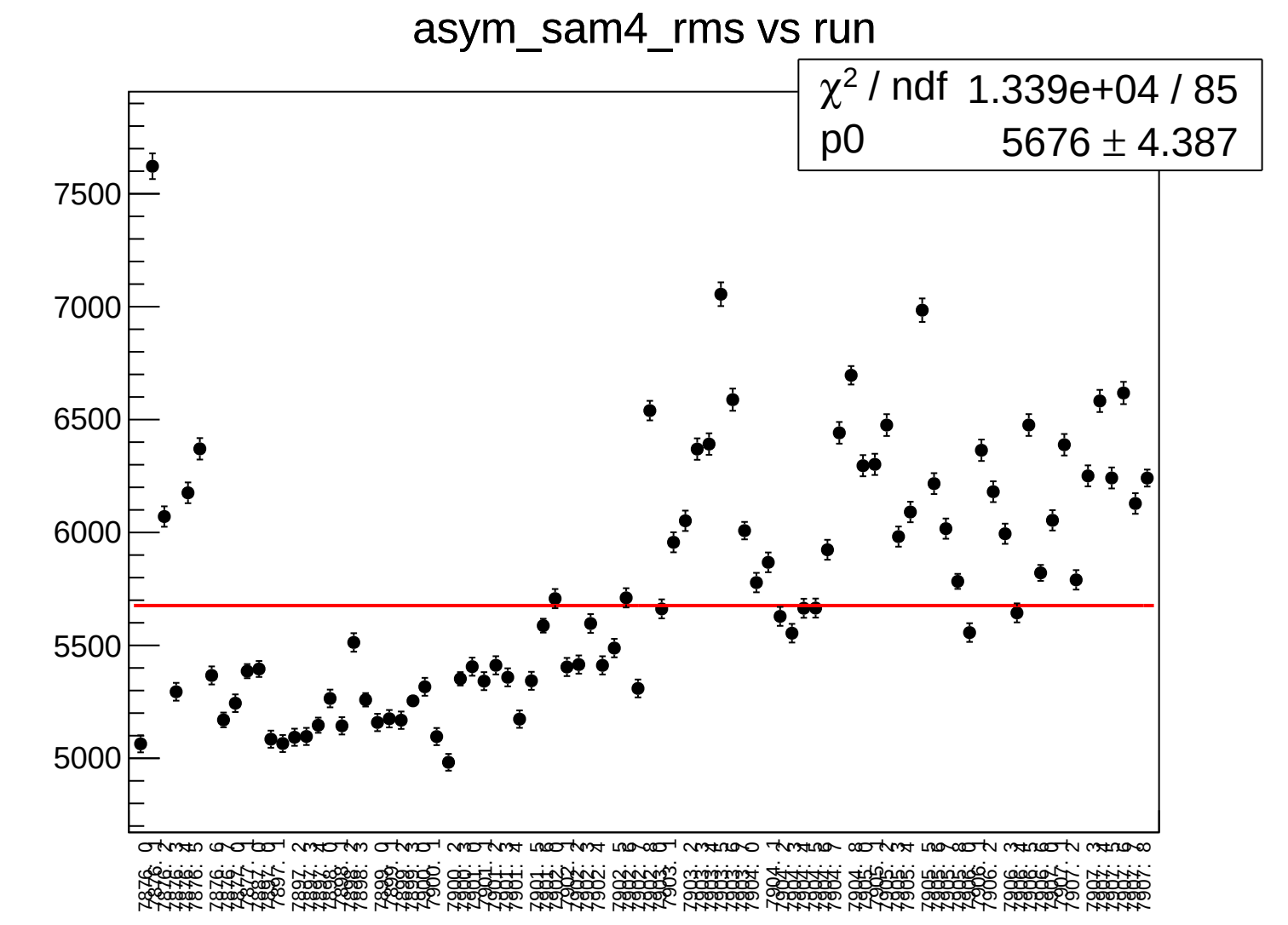

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.04 / 85
p0 −1.044e+04 ± 6296
200
100
0
−100
−200
pull
Entries 86
Mean −17.32
Std Dev 62.72
3
2
1
0
−1
−2

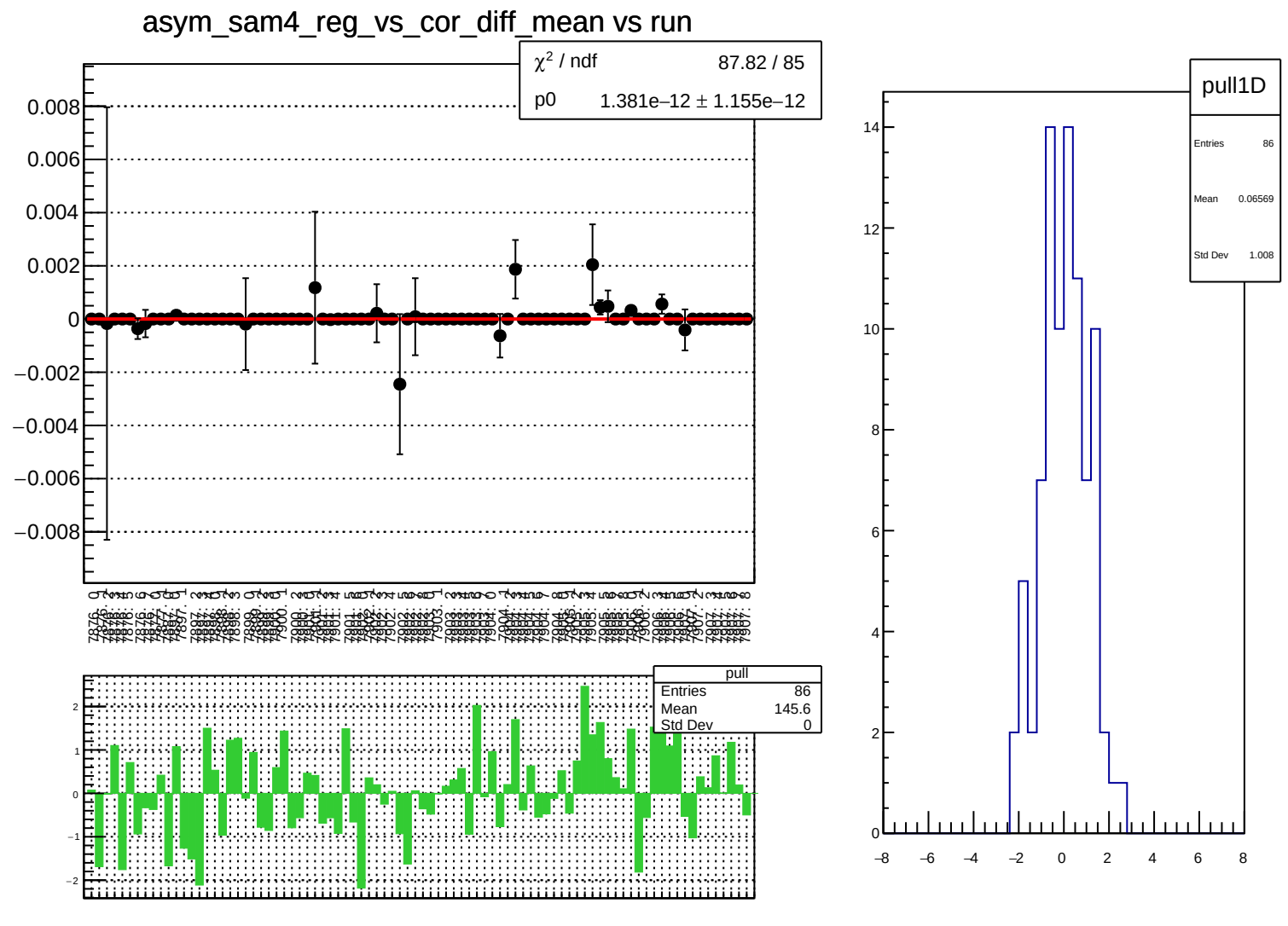

pull1D
Entries 86
Mean 0.01005
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

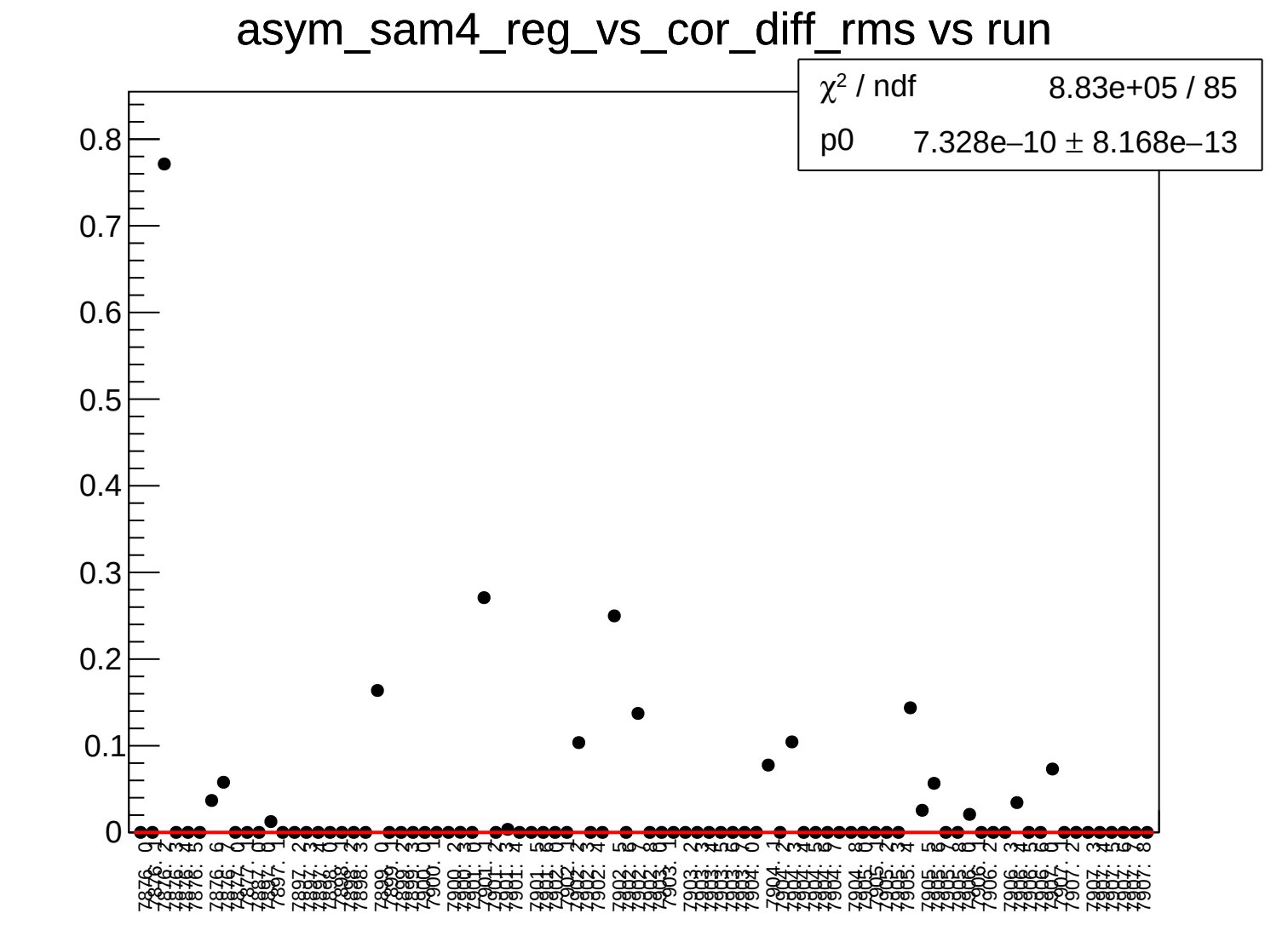

asym_sam4_eigen_dit_correction_rms vs run
χ^2 / ndf 1.226e+04 / 85
p0 5763 ± 4.452
7000
6500
6000
5500
5000

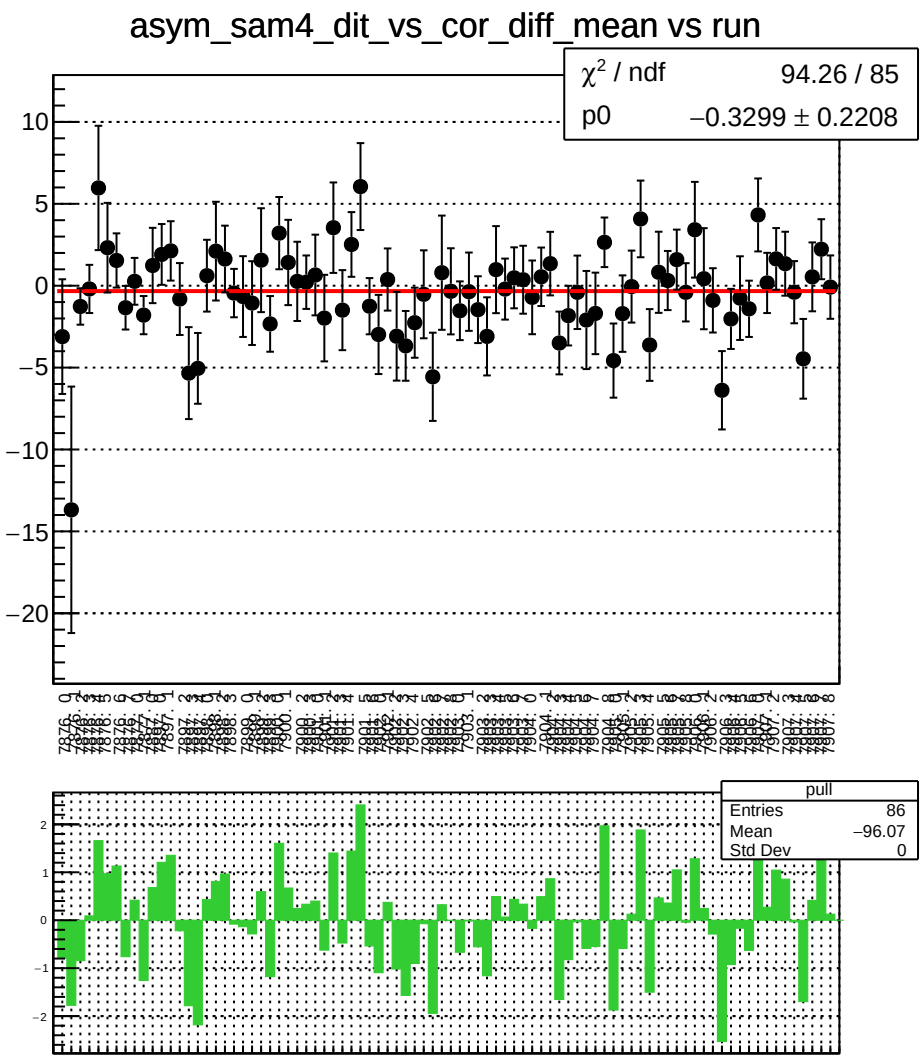

asym_sam4_mean vs run
×10^3
χ² / ndf 90.22 / 85
p0 1.008e+04 ± 6204
200
100
0
−100
−200
pull
Entries 86
Mean 7.227
Std Dev 76.4
2
1
0
−1
−2
−3

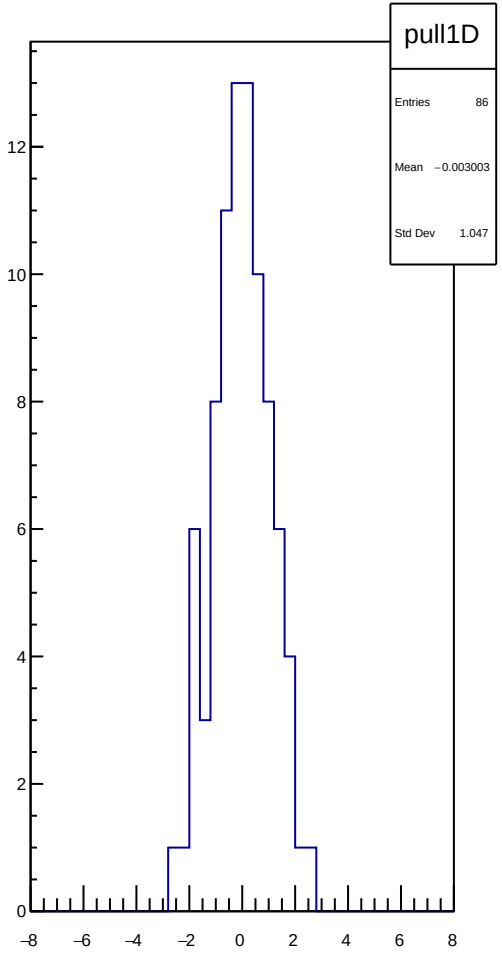

pull1D
Entries 86
Mean −0.01046
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

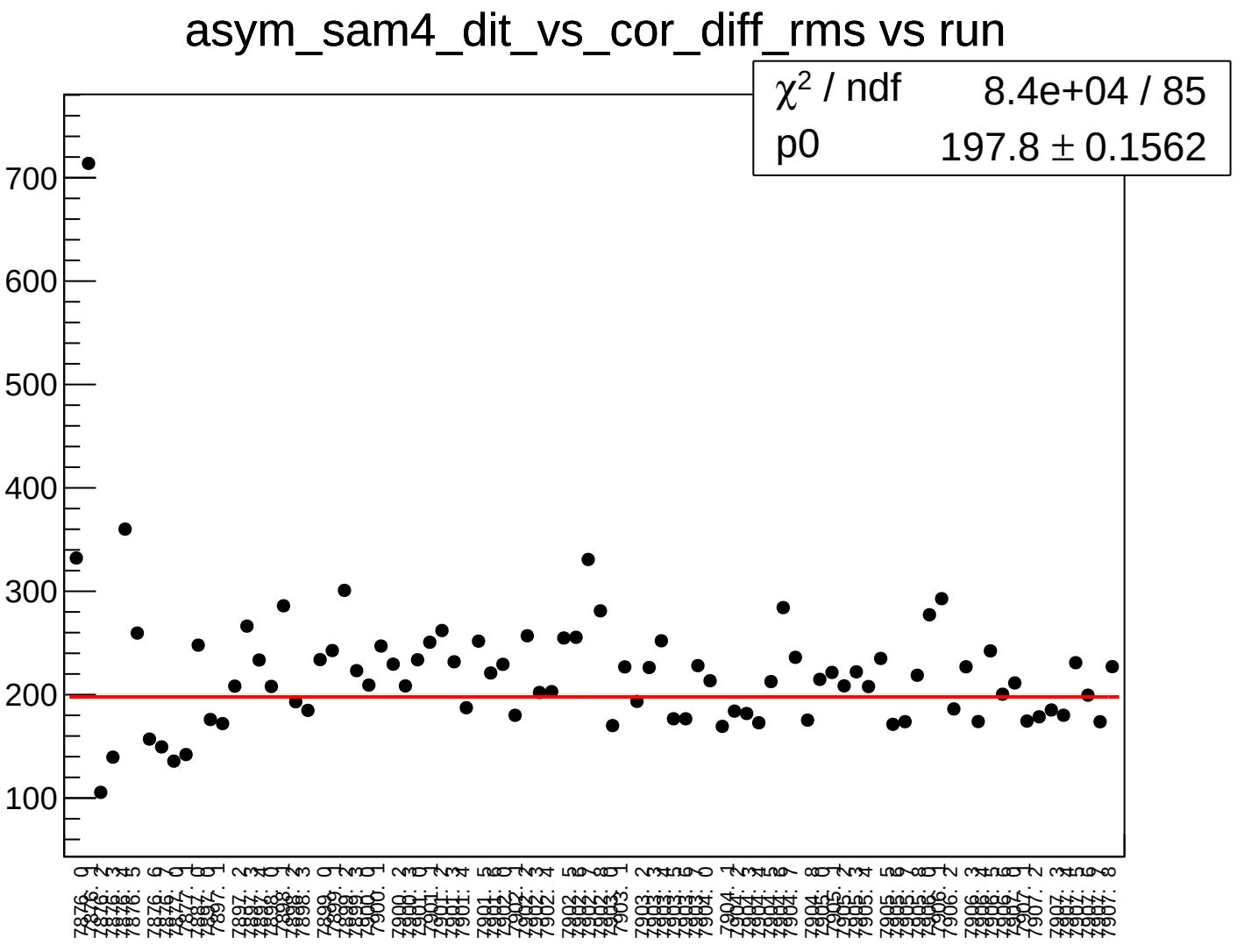

asym_sam4_rms vs run
χ^2 / ndf 1.339e+04 / 85
p0 5676 ± 4.387
7500
7000
6500
6000
5500
5000

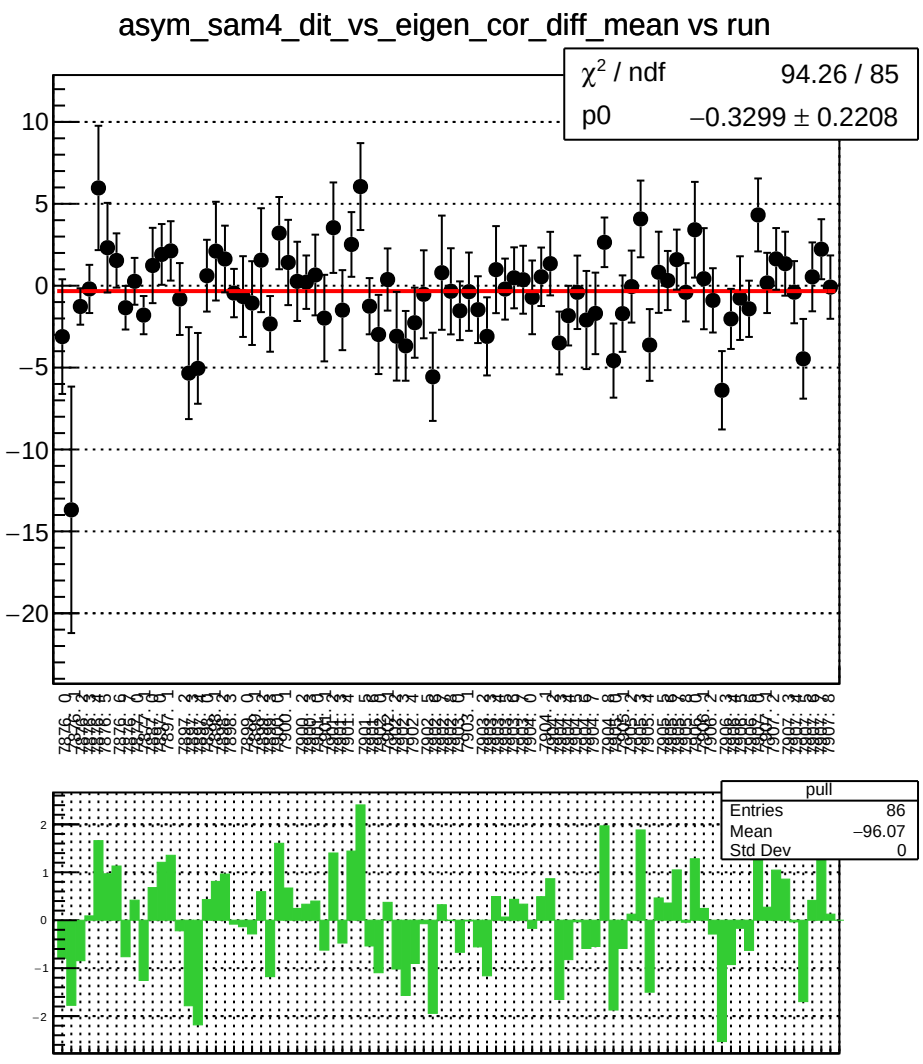

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 87.82 / 85
p0 1.381e−12 ± 1.155e−12
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 86
Mean 145.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.06569
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

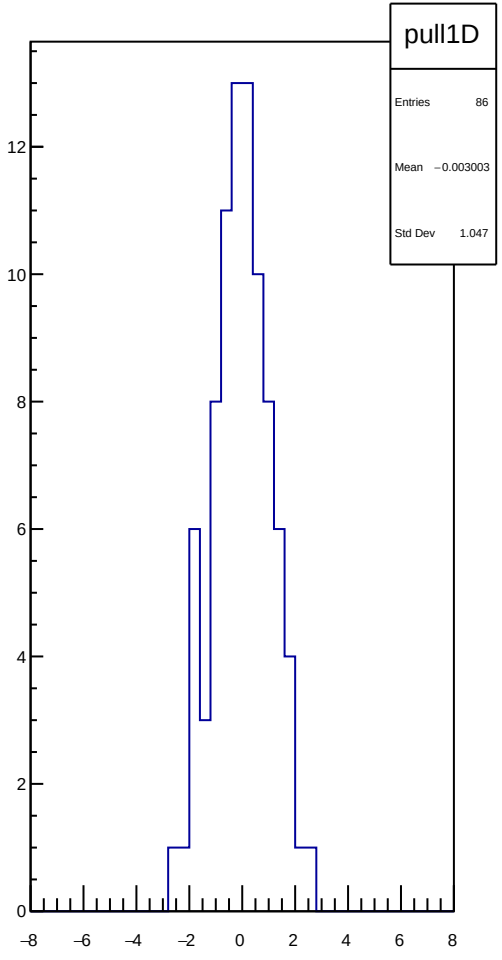

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 8.83e+05 / 85
p0 7.328e−10 ± 8.168e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

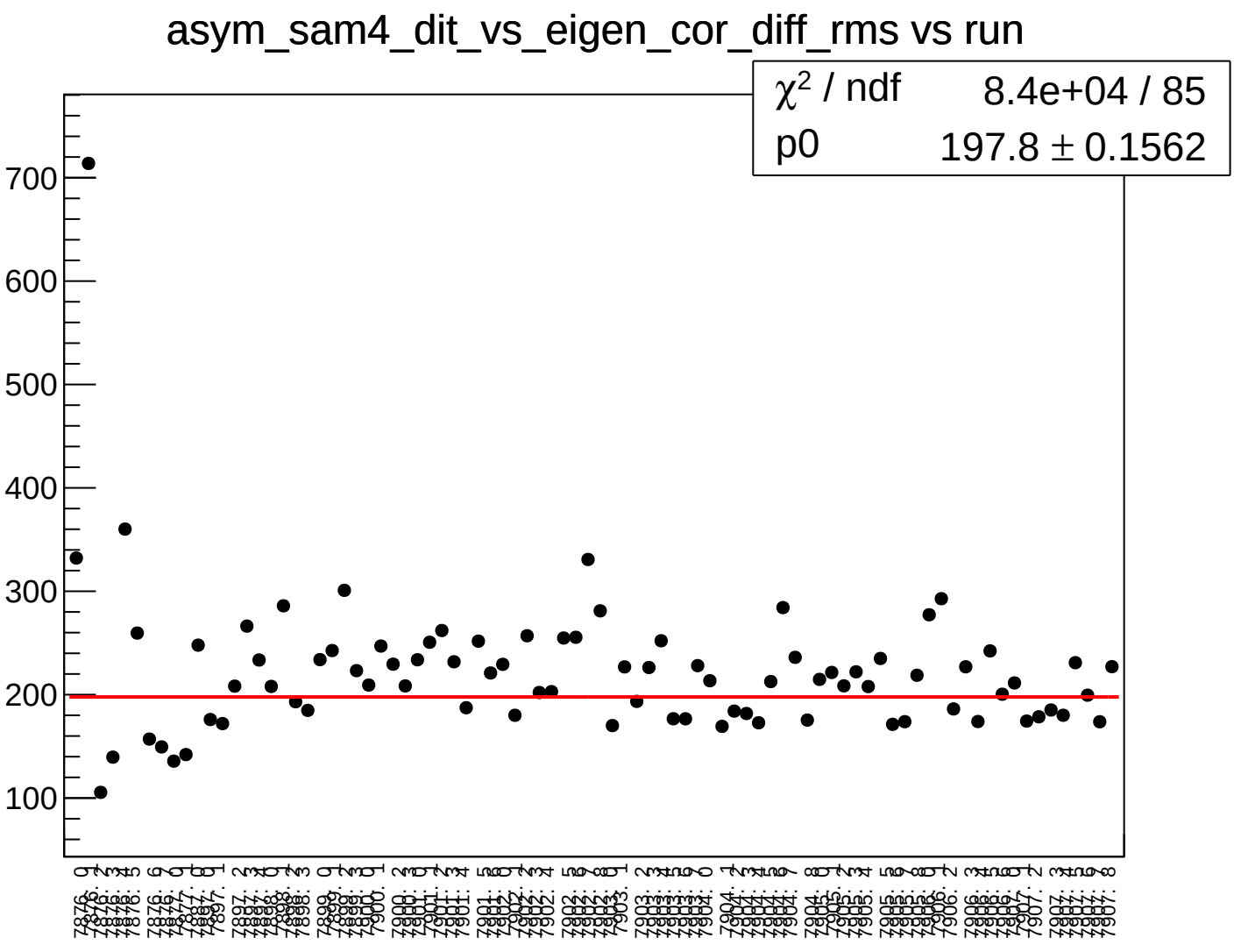

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 94.26 / 85
p0 −0.3299 ± 0.2208
pull
Entries 86
Mean −96.07
Std Dev 0

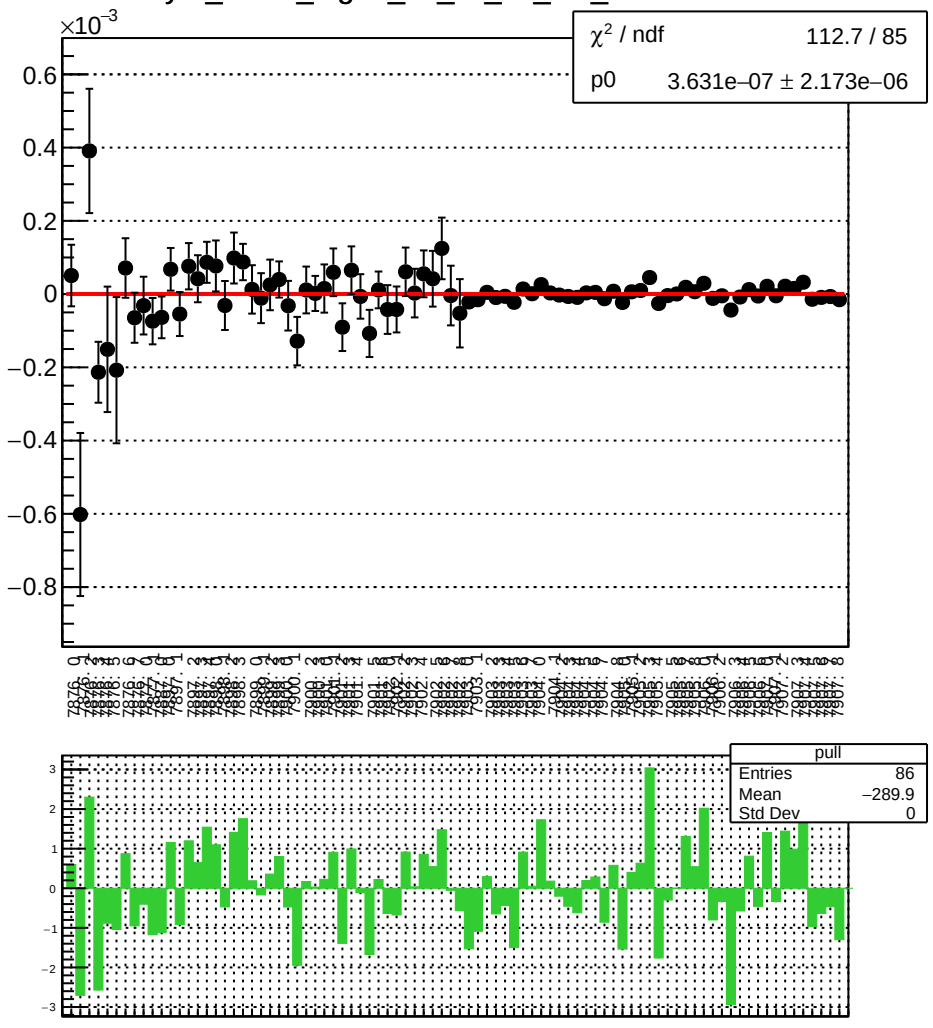

pull1D
Entries 86
Mean −0.003003
Std Dev 1.047

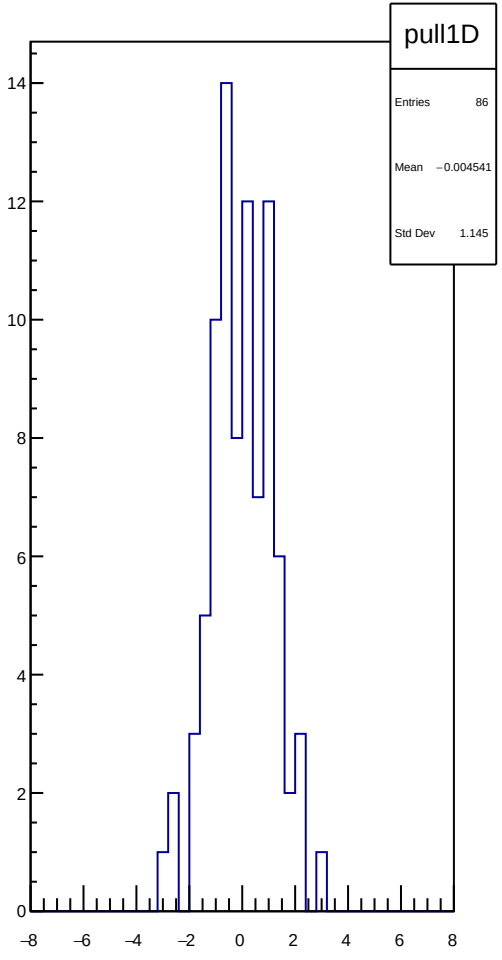

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 8.4e+04 / 85
p0 197.8 ± 0.1562
700
600
500
400
300
200
100

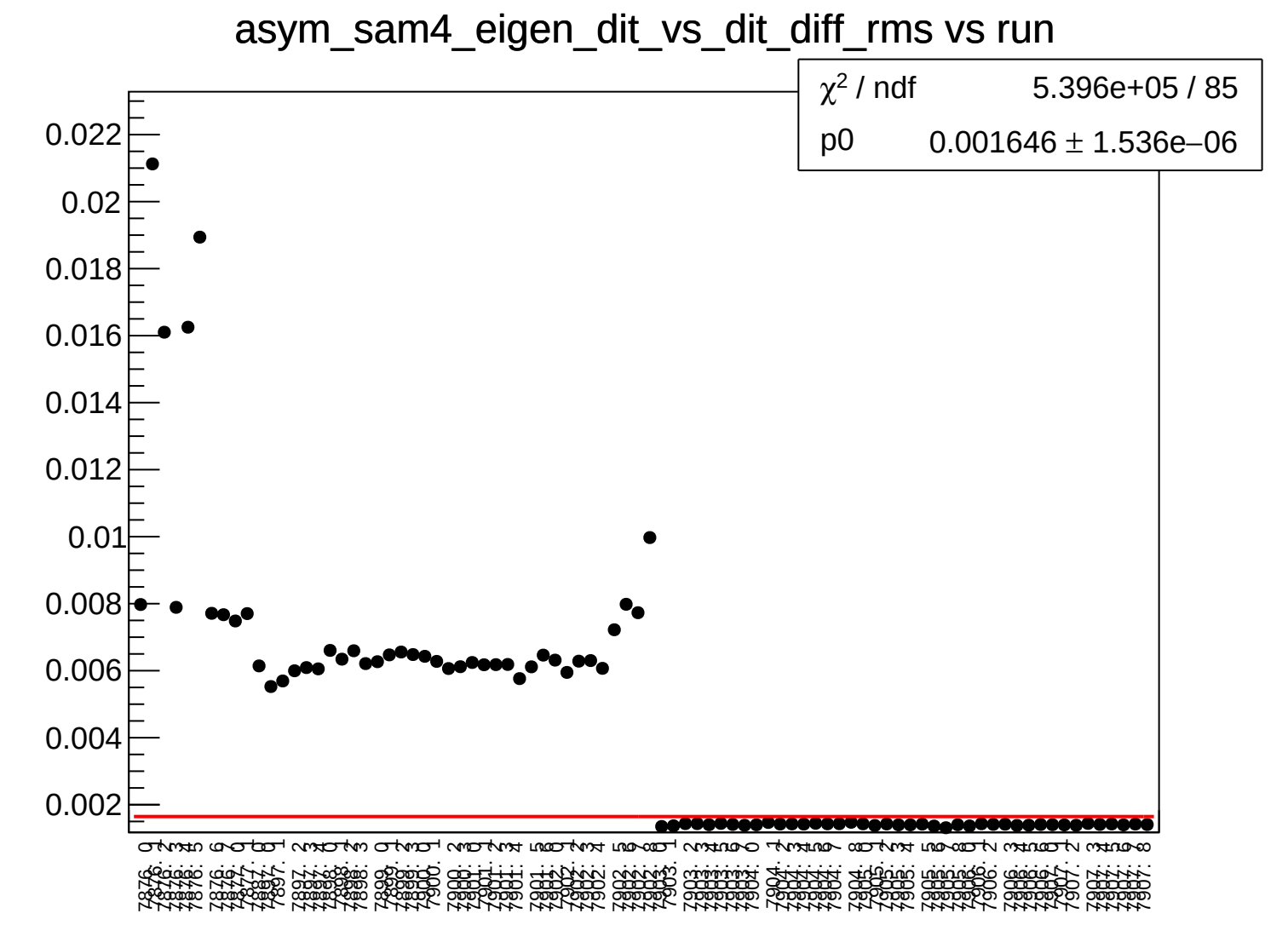

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.26 / 85
p0 −0.3299 ± 0.2208
pull
Entries 86
Mean −96.07
Std Dev 0

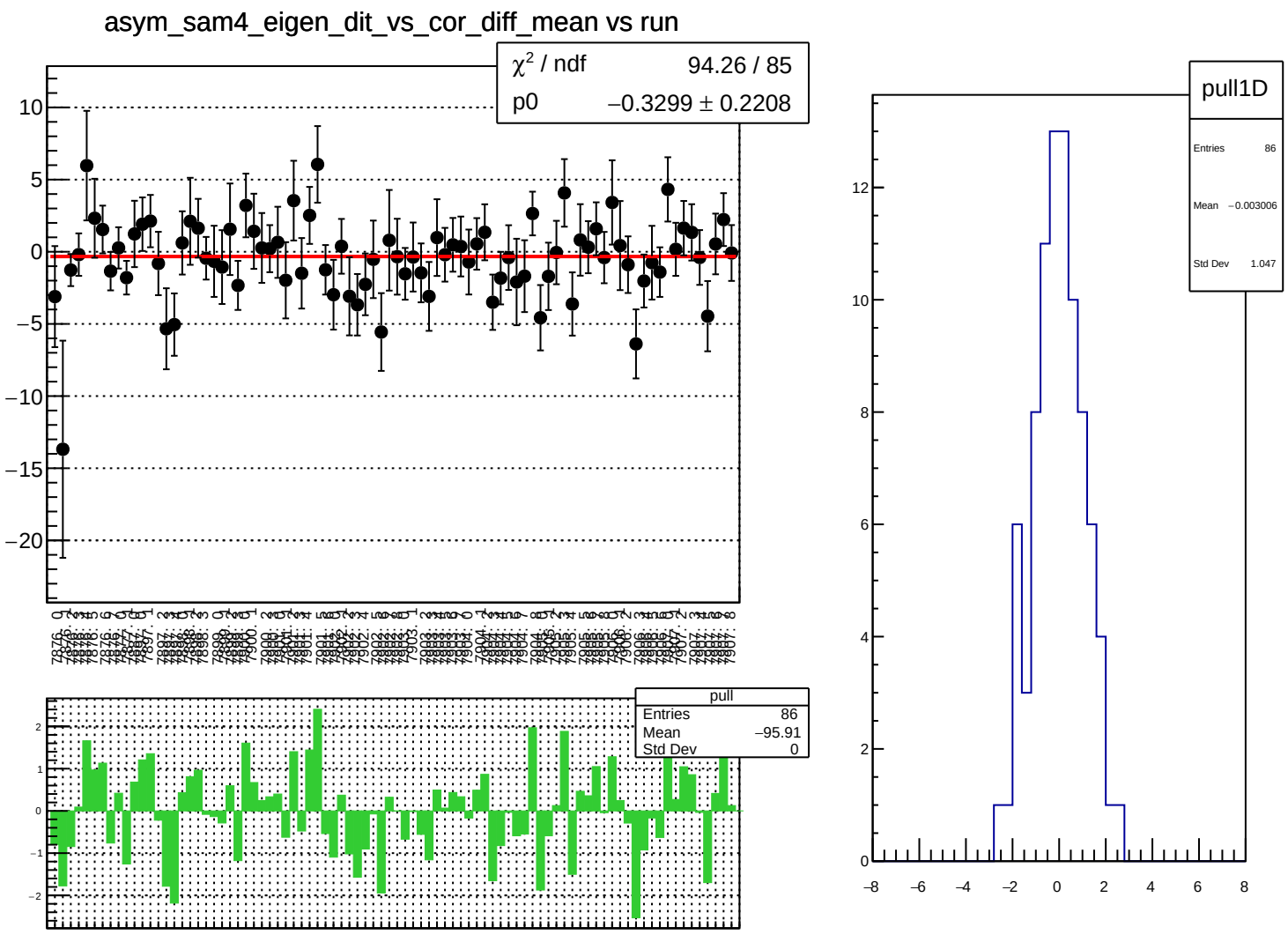

pull1D
Entries 86
Mean −0.003003
Std Dev 1.047

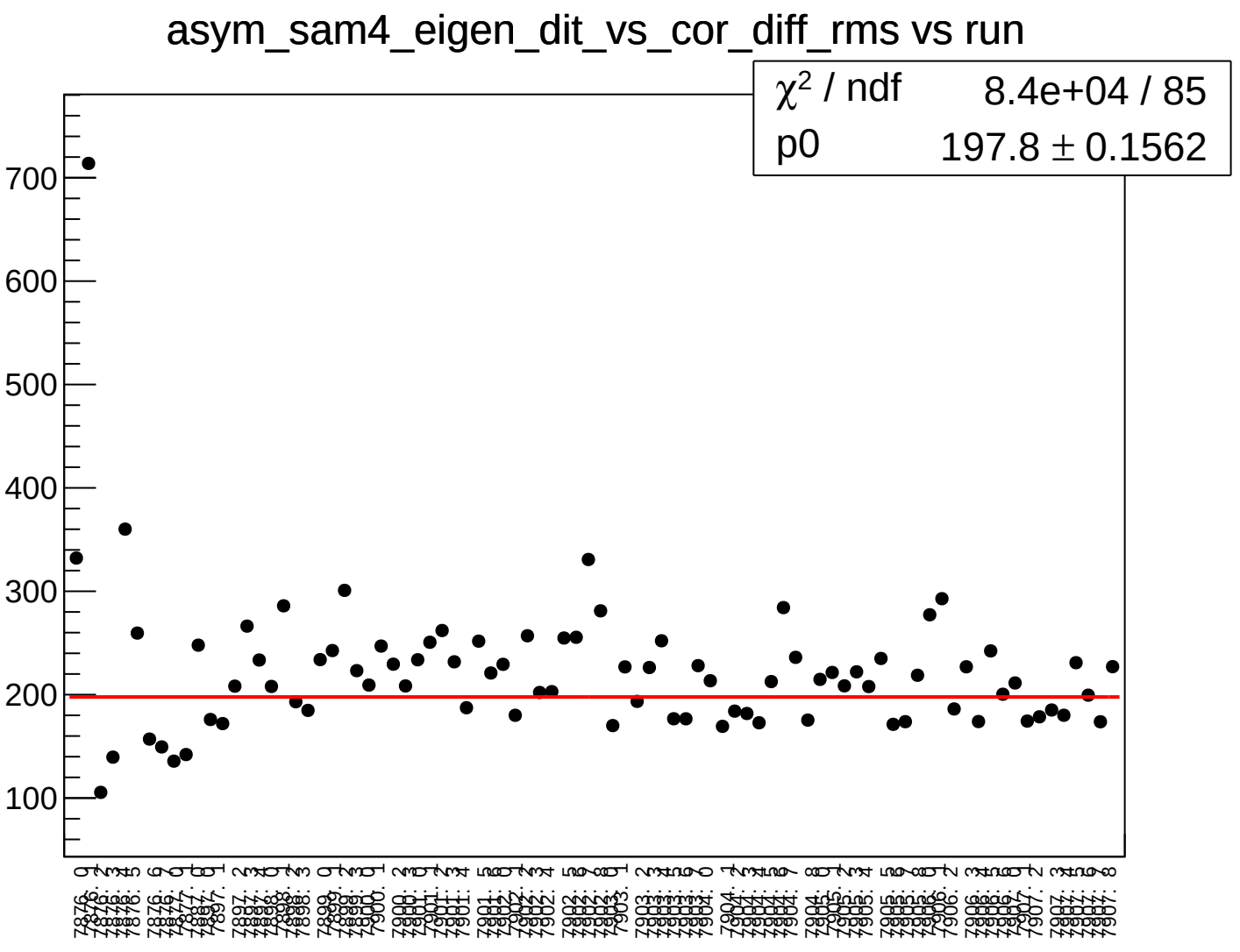

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.4e+04 / 85
p0 197.8 ± 0.1562
700
600
500
400
300
200
100

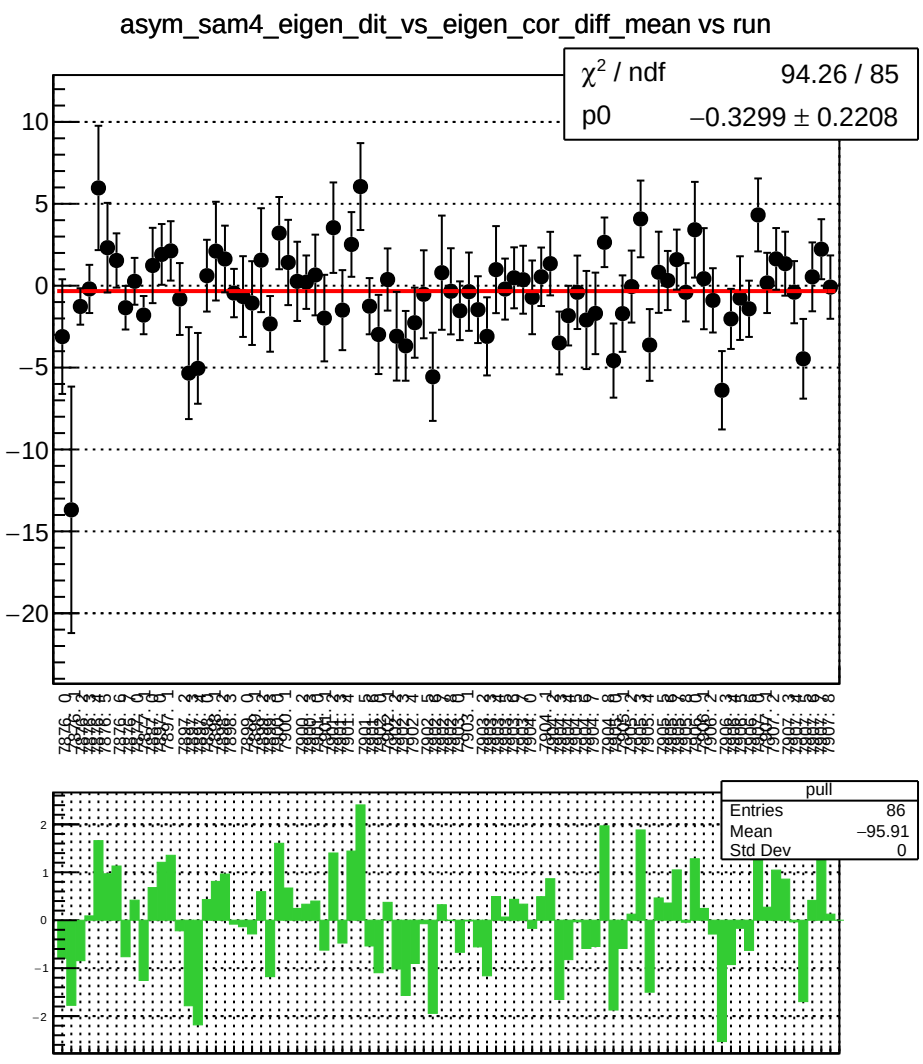

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.7 / 85
p0 3.631e−07 ± 2.173e−06
pull
Entries 86
Mean −289.9
Std Dev 0

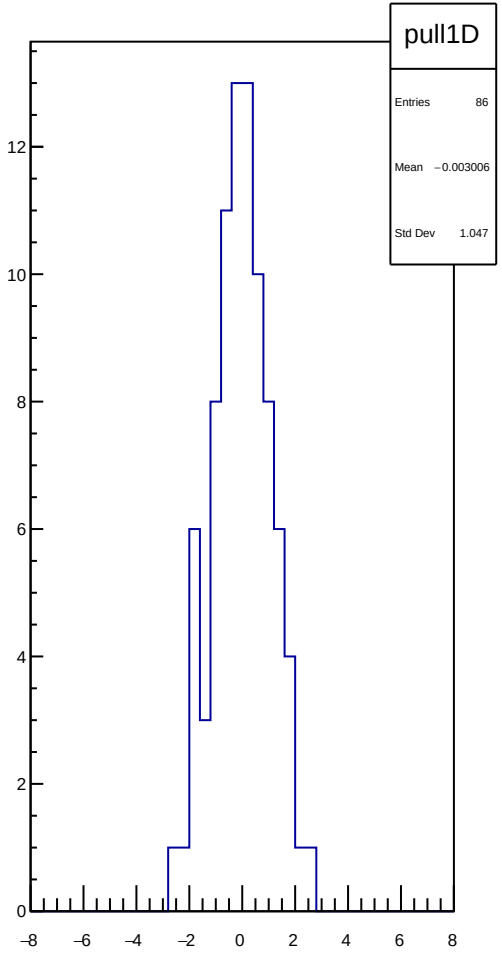

pull1D
Entries 86
Mean −0.004541
Std Dev 1.145

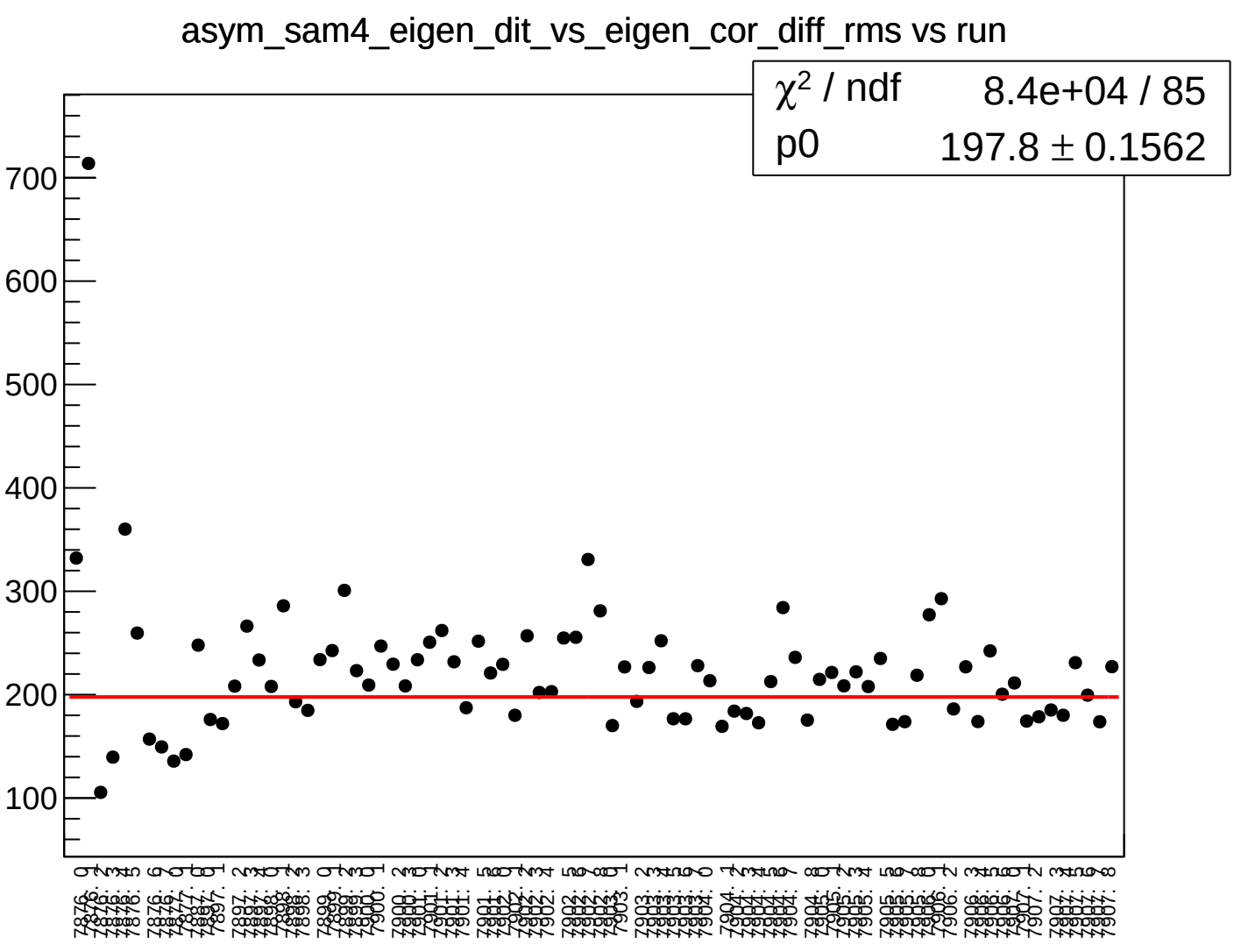

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.396e+05 / 85
p0 0.001646 ± 1.536e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

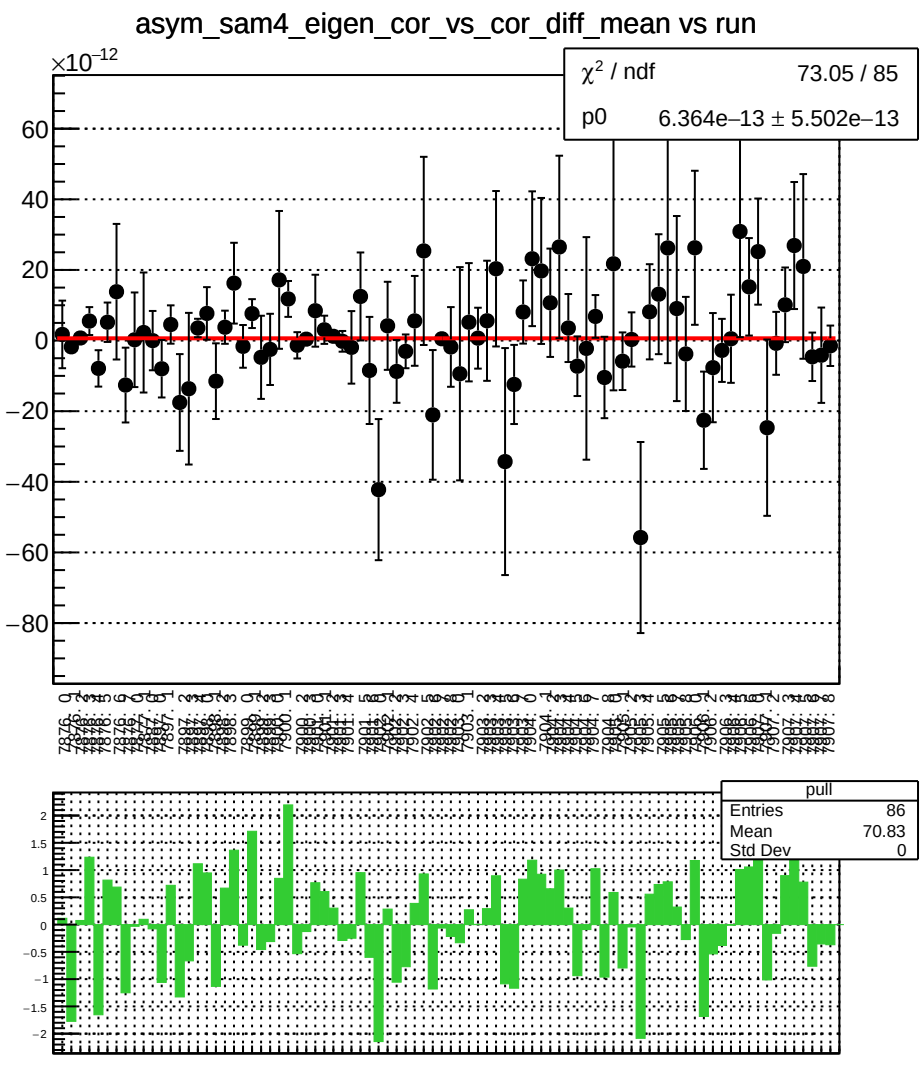

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.26 / 85
p0 −0.3299 ± 0.2208
pull
Entries 86
Mean −95.91
Std Dev 0
pull1D
Entries 86
Mean −0.003006
Std Dev 1.047

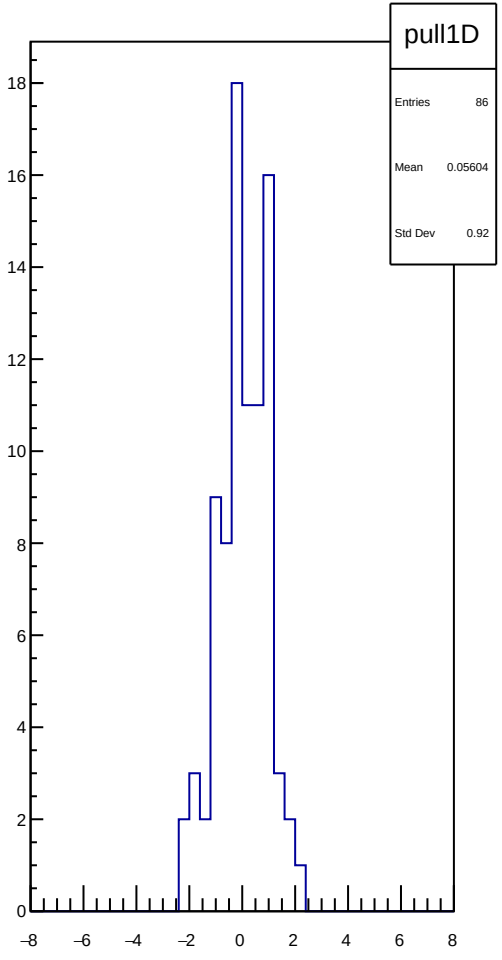

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.4e+04 / 85
p0 197.8 ± 0.1562
700
600
500
400
300
200
100

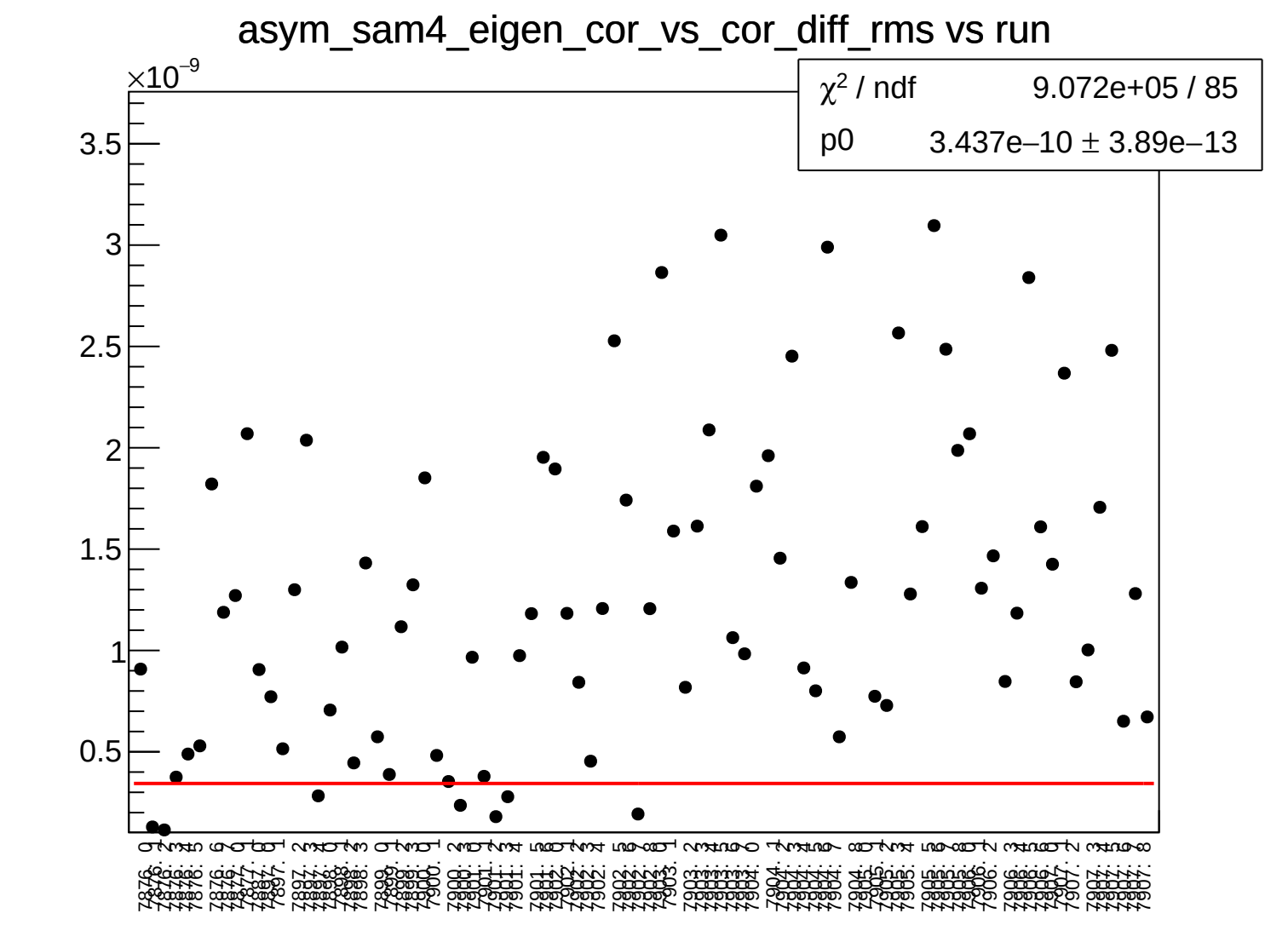

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.26 / 85
p0 −0.3299 ± 0.2208
pull
Entries 86
Mean −95.91
Std Dev 0

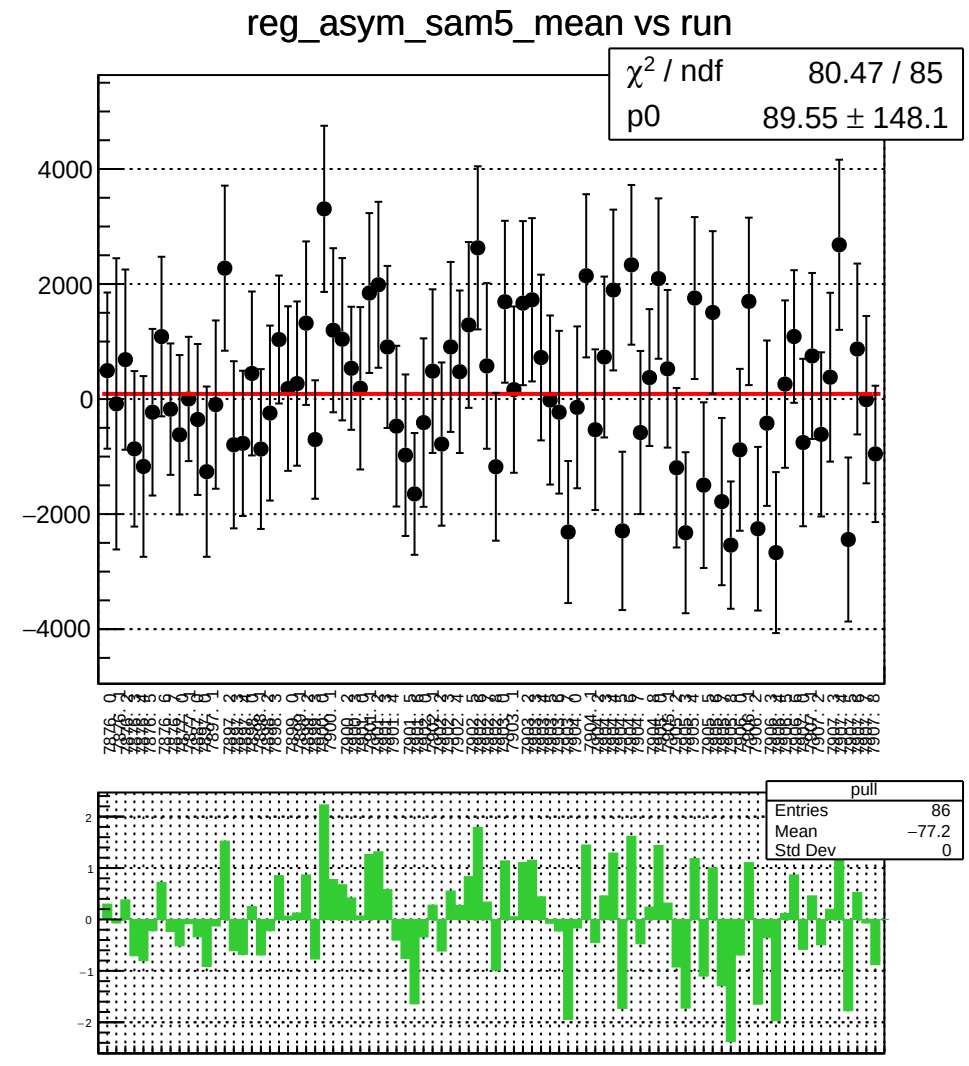

pull1D
Entries 86
Mean −0.003006
Std Dev 1.047

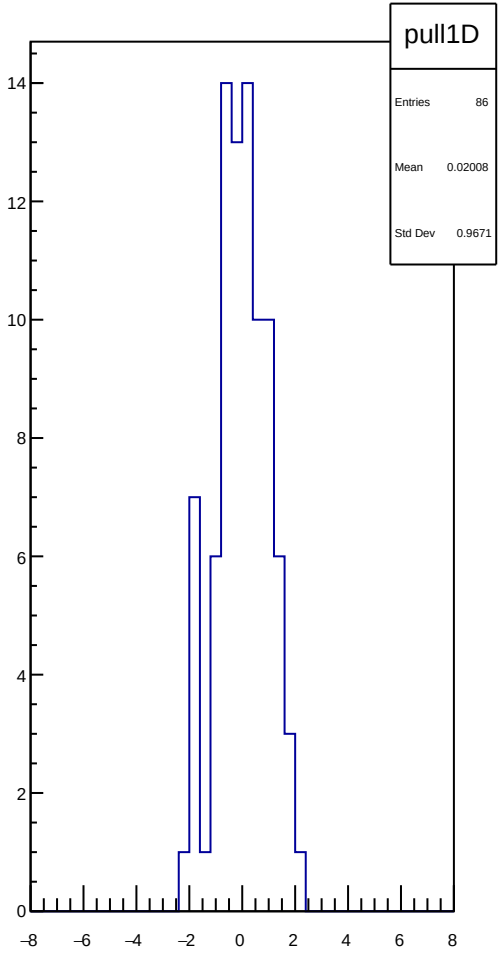

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.4e+04 / 85
p0 197.8 ± 0.1562
700
600
500
400
300
200
100

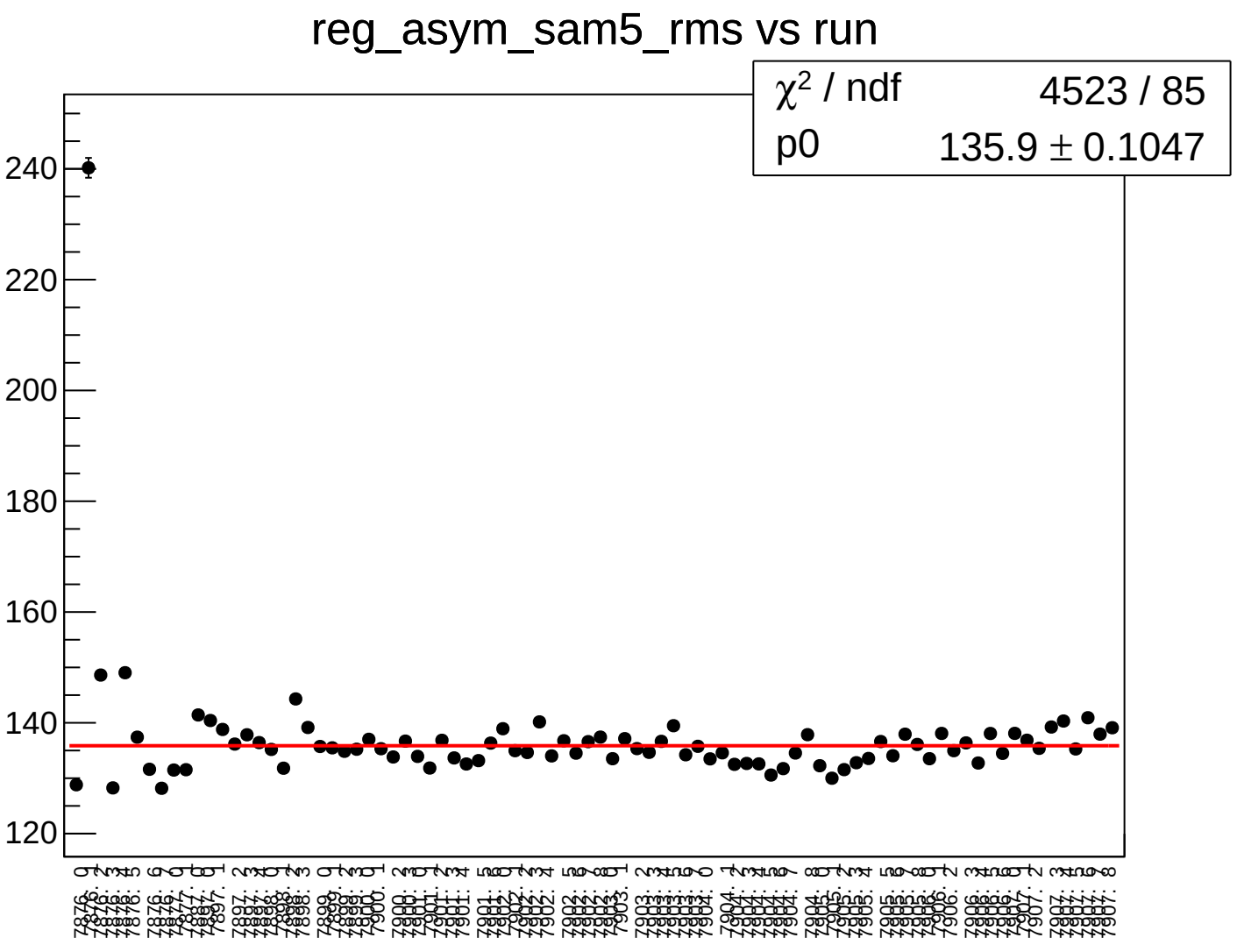

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.05 / 85
p0 6.364e−13 ± 5.502e−13
pull
Entries 86
Mean 70.83
Std Dev 0

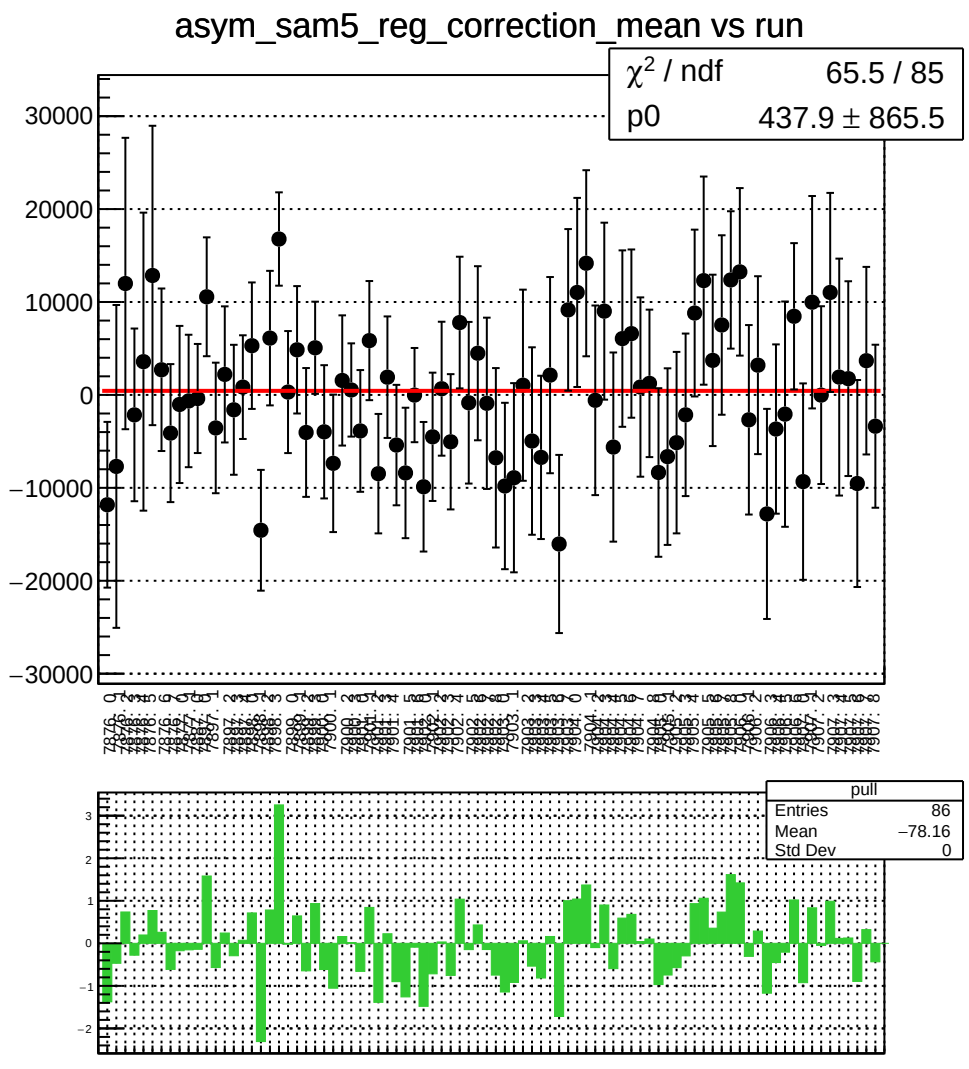

pull1D
Entries 86
Mean 0.05604
Std Dev 0.92

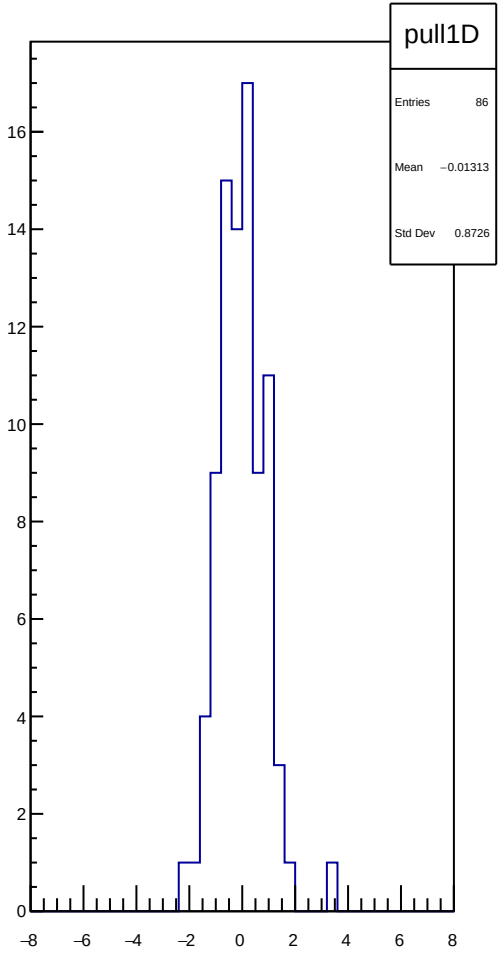

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.072e+05 / 85
p0 3.437e−10 ± 3.89e−13
3.5
3
2.5
2
1.5
1
0.5

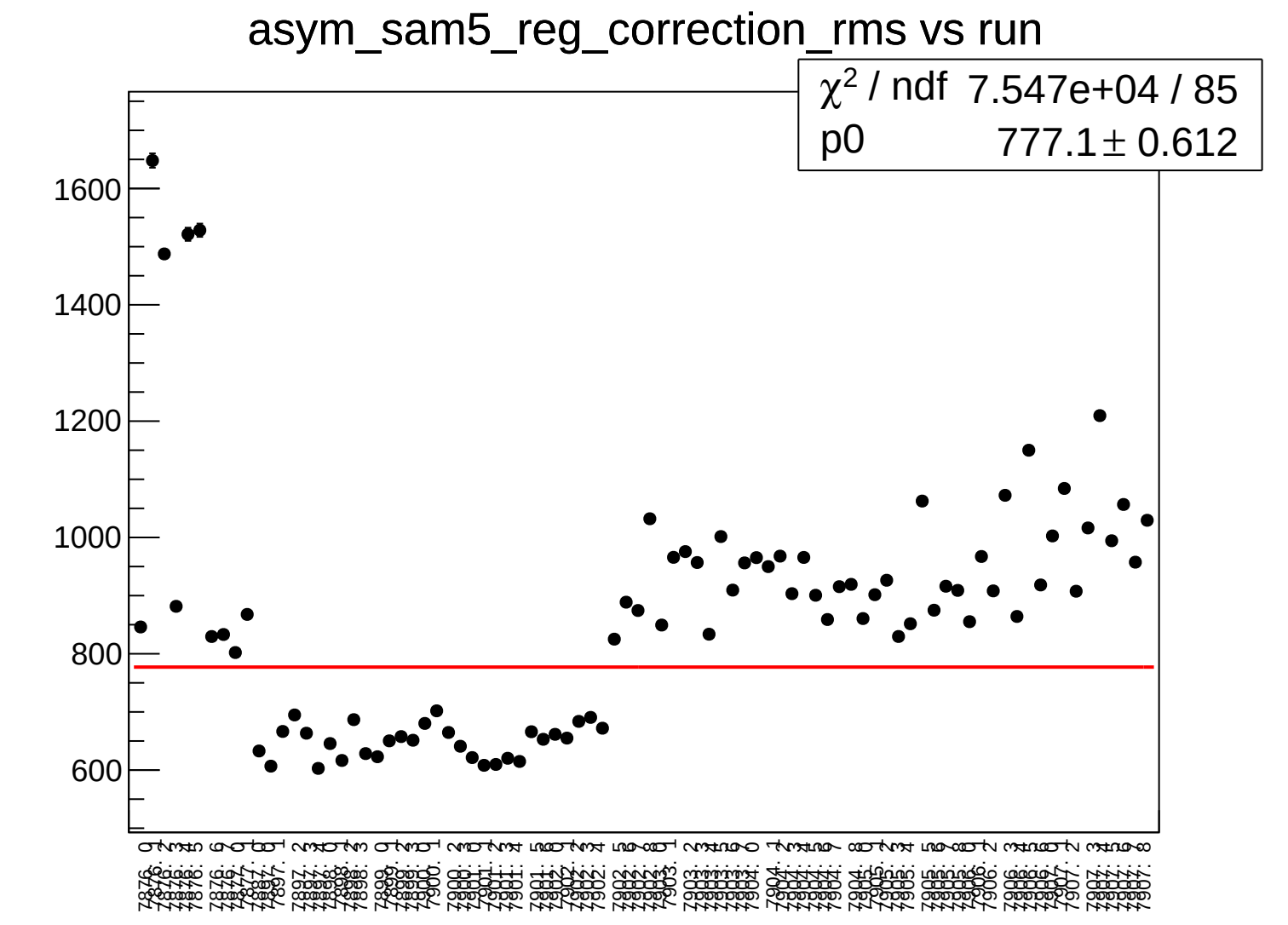

reg_asym_sam5_mean vs run
χ² / ndf 80.47 / 85
p0 89.55 ± 148.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −77.2
Std Dev 0
2
1
0
−1
−2

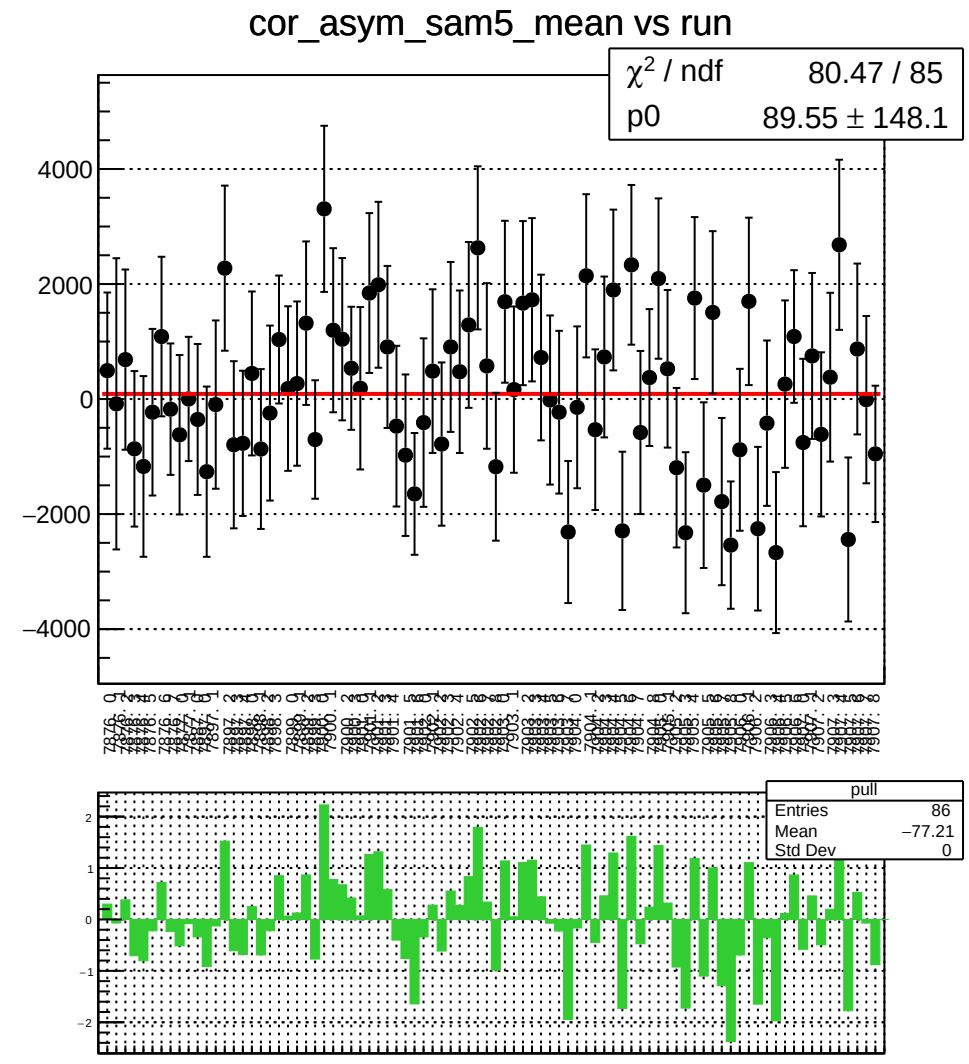

pull1D
Entries 86
Mean 0.02008
Std Dev 0.9671
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

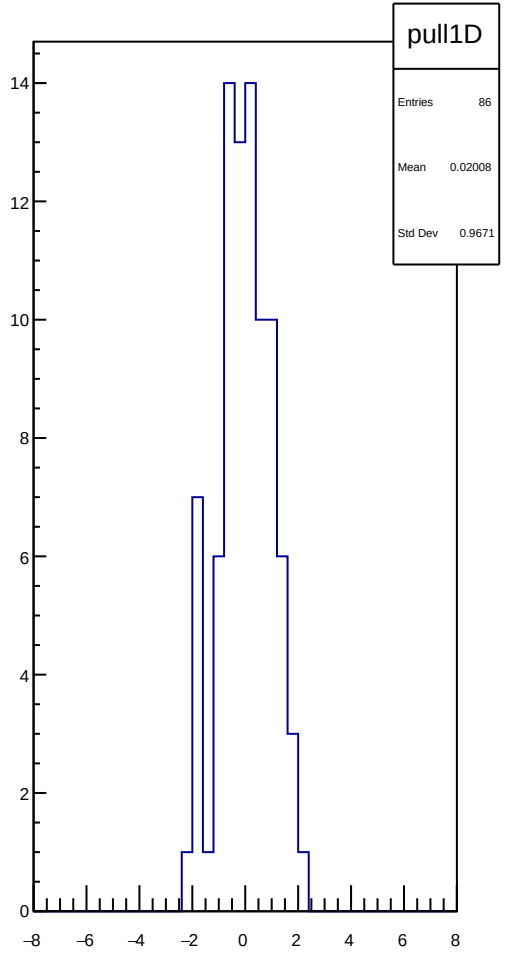

reg_asym_sam5_rms vs run
χ² / ndf 4523 / 85
p0 135.9 ± 0.1047
240
220
200
180
160
140
120

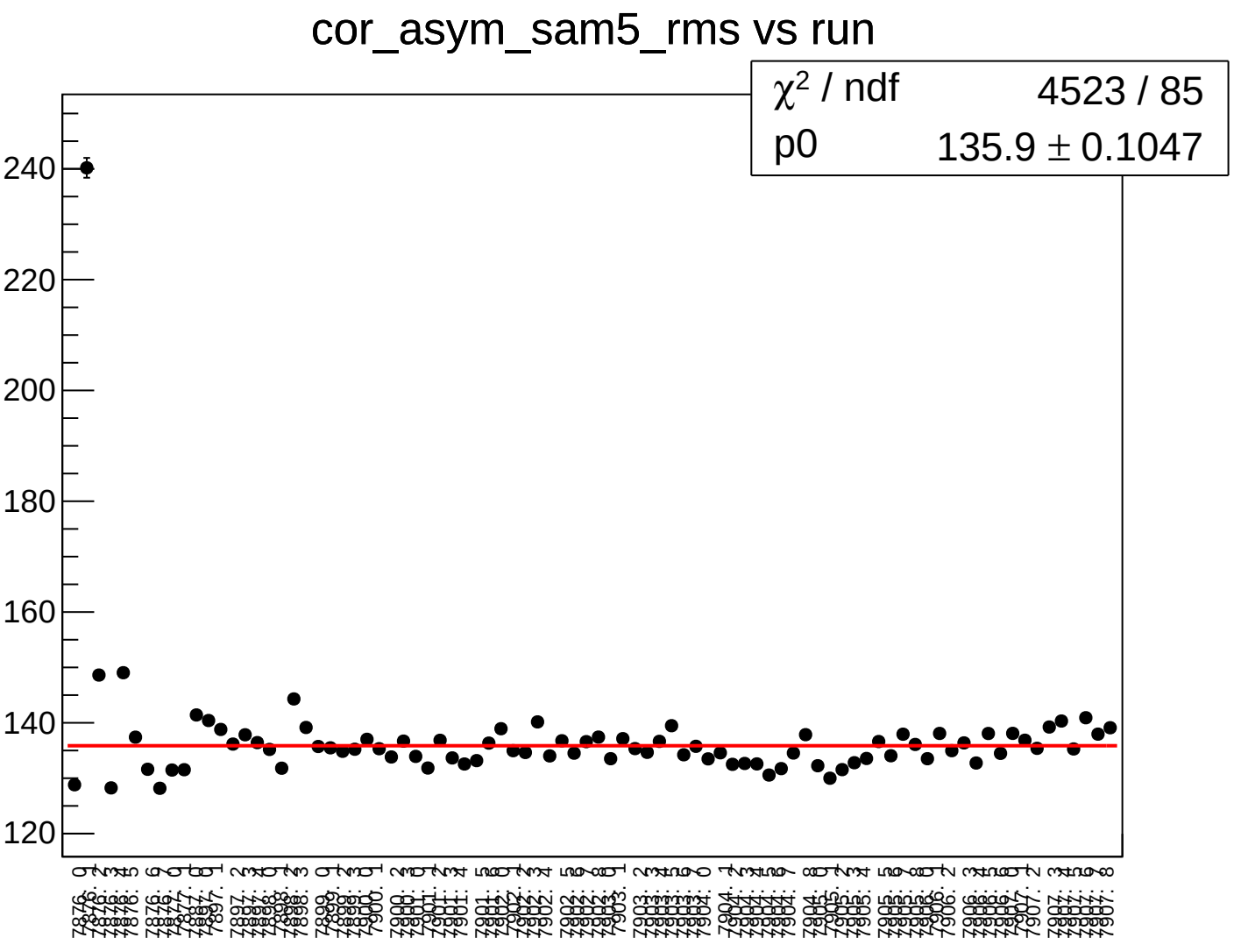

asym_sam5_reg_correction_mean vs run
χ² / ndf 65.5 / 85
p0 437.9 ± 865.5
pull
Entries 86
Mean −78.16
Std Dev 0

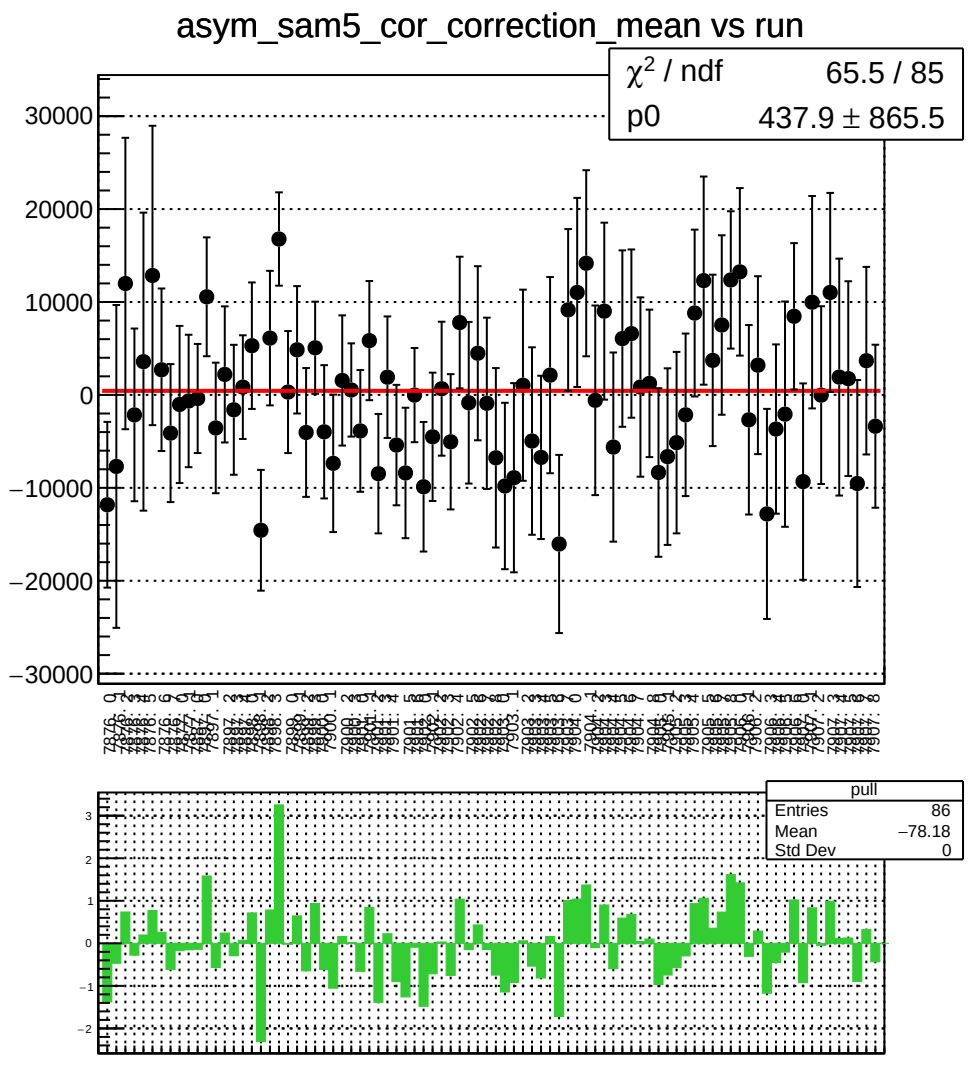

pull1D
Entries 86
Mean −0.01313
Std Dev 0.8726

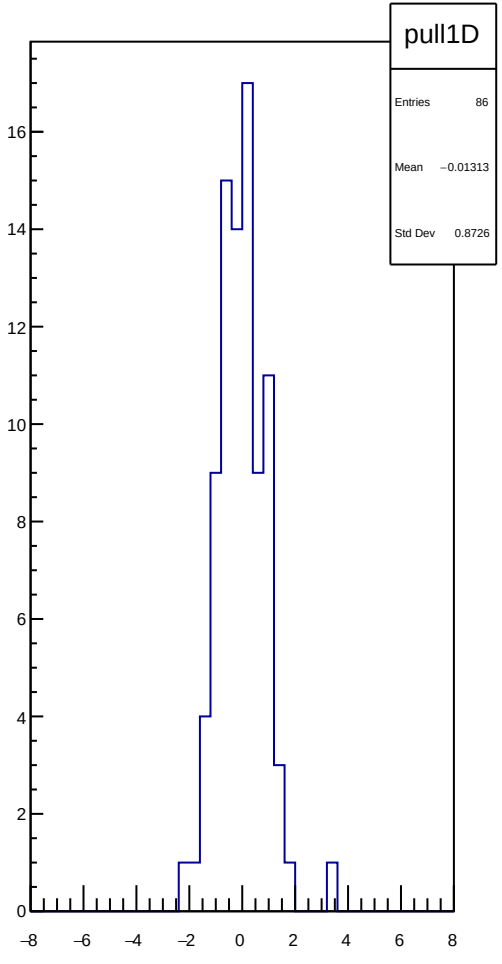

asym_sam5_reg_correction_rms vs run
χ^2 / ndf 7.547e+04 / 85
p0 777.1 ± 0.612
1600
1400
1200
1000
800
600

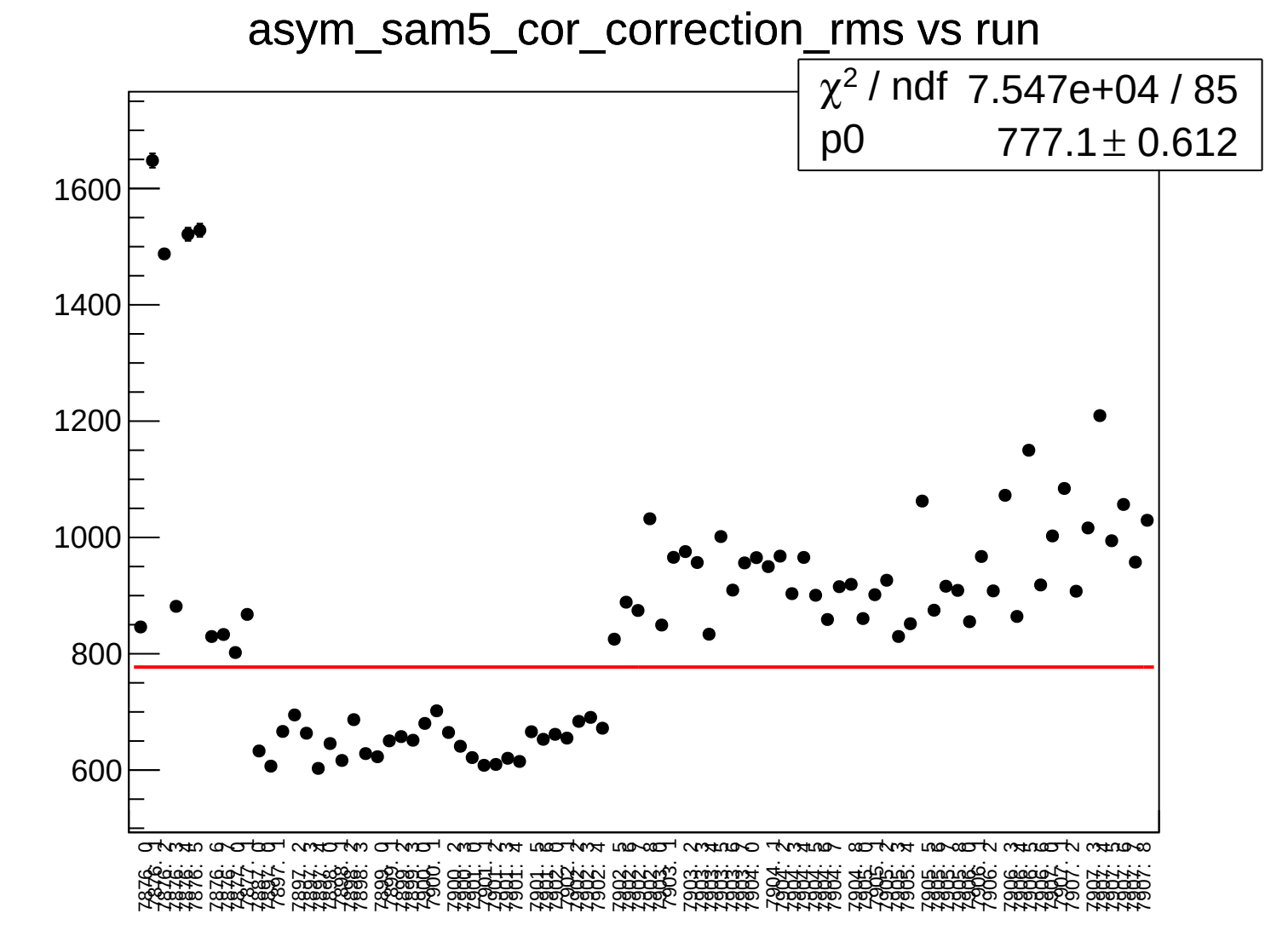

cor_asym_sam5_mean vs run
χ² / ndf 80.47 / 85
p0 89.55 ± 148.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −77.21
Std Dev 0
2
1
0
−1
−2

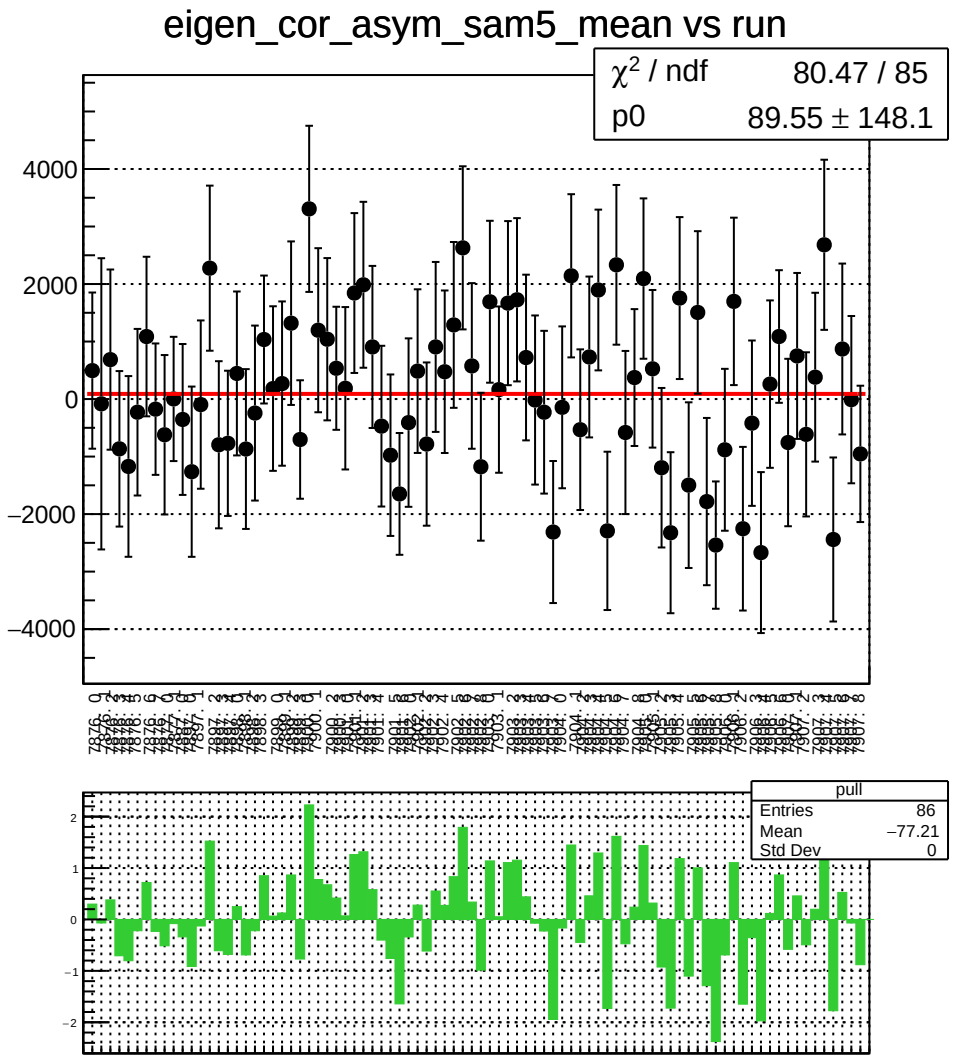

pull1D
Entries 86
Mean 0.02008
Std Dev 0.9671
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

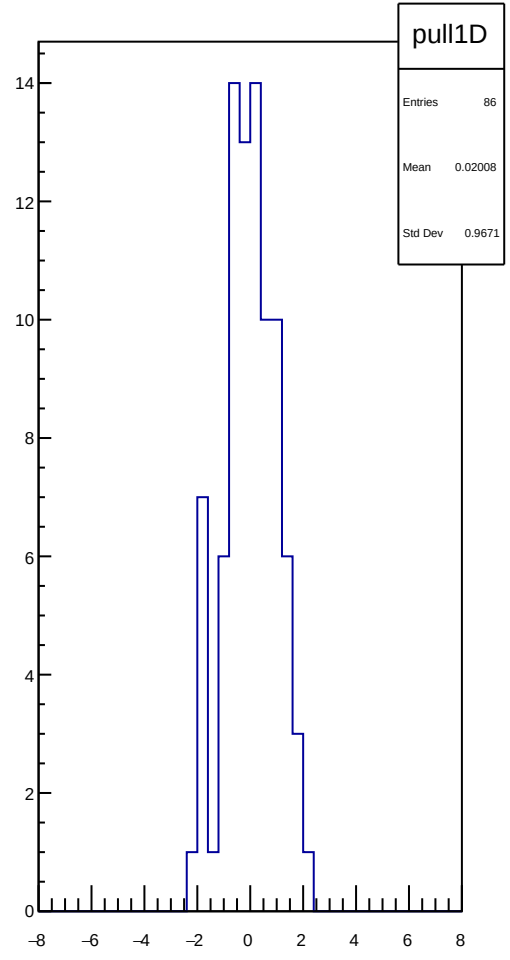

cor_asym_sam5_rms vs run
χ² / ndf 4523 / 85
p0 135.9 ± 0.1047
240
220
200
180
160
140
120

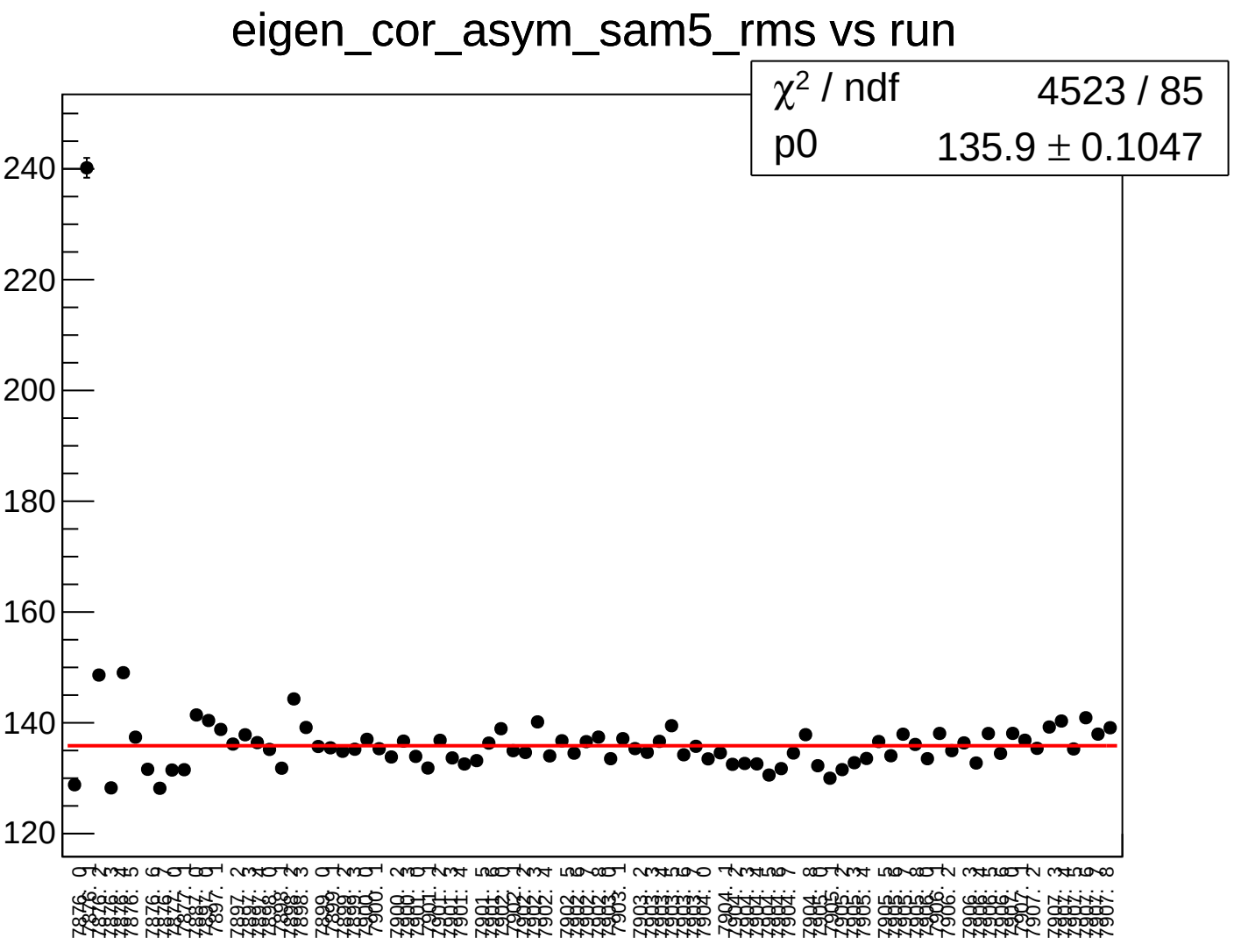

asym_sam5_cor_correction_mean vs run
χ² / ndf 65.5 / 85
p0 437.9 ± 865.5
pull
Entries 86
Mean −78.18
Std Dev 0

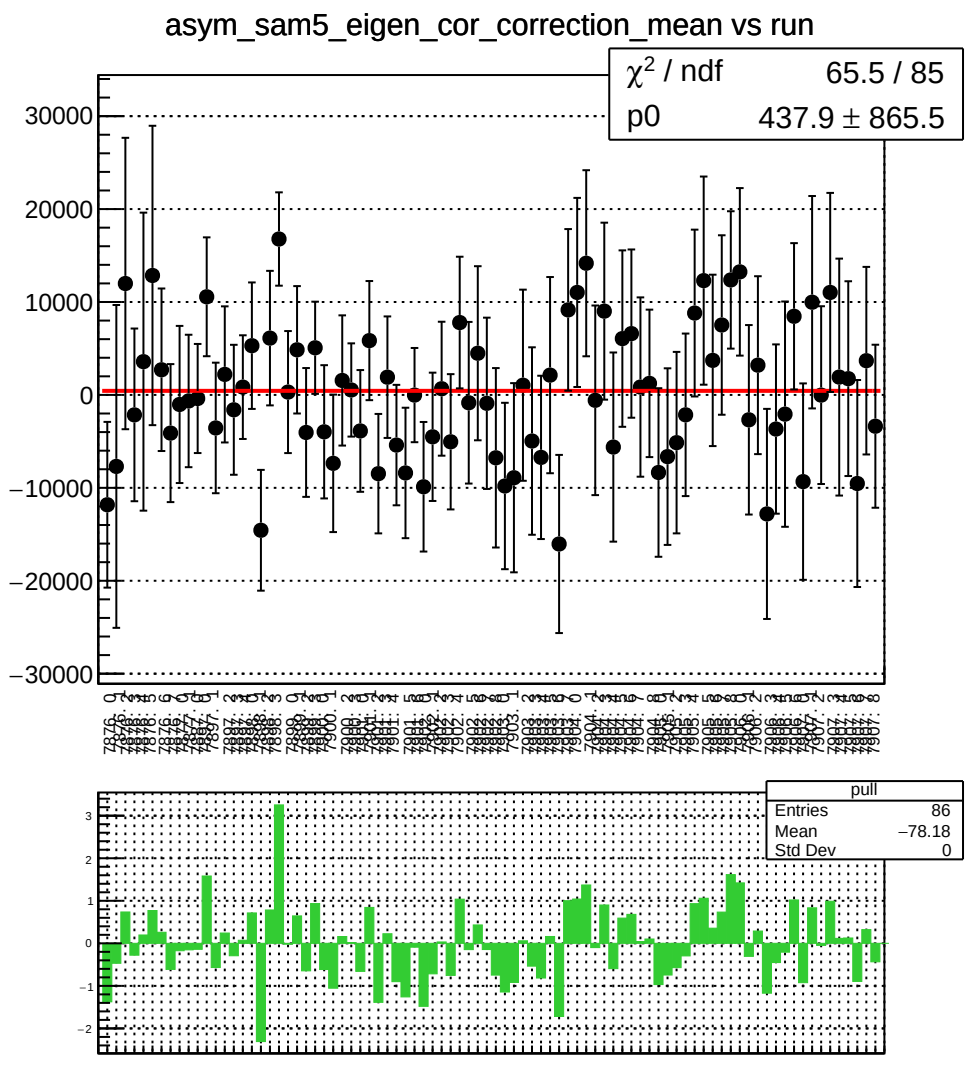

pull1D
Entries 86
Mean −0.01313
Std Dev 0.8726

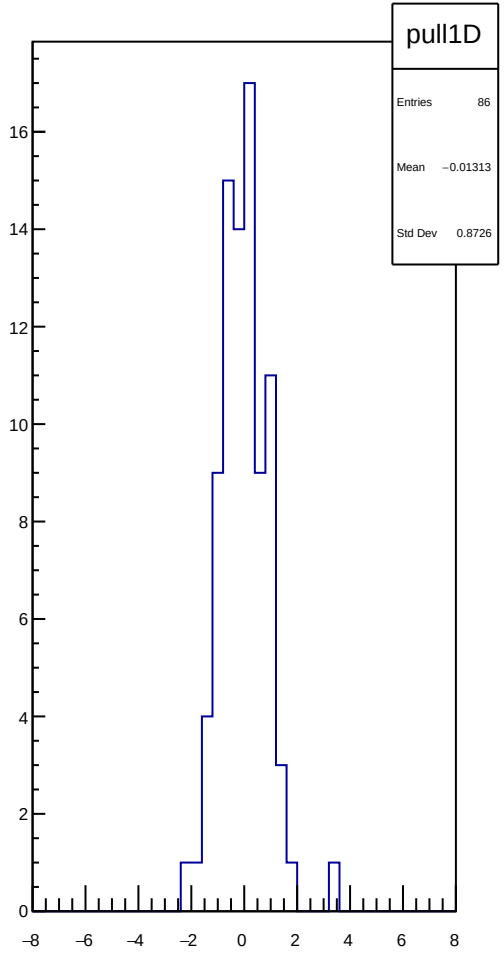

asym_sam5_cor_correction_rms vs run
χ² / ndf 7.547e+04 / 85
p0 777.1 ± 0.612
1600
1400
1200
1000
800
600

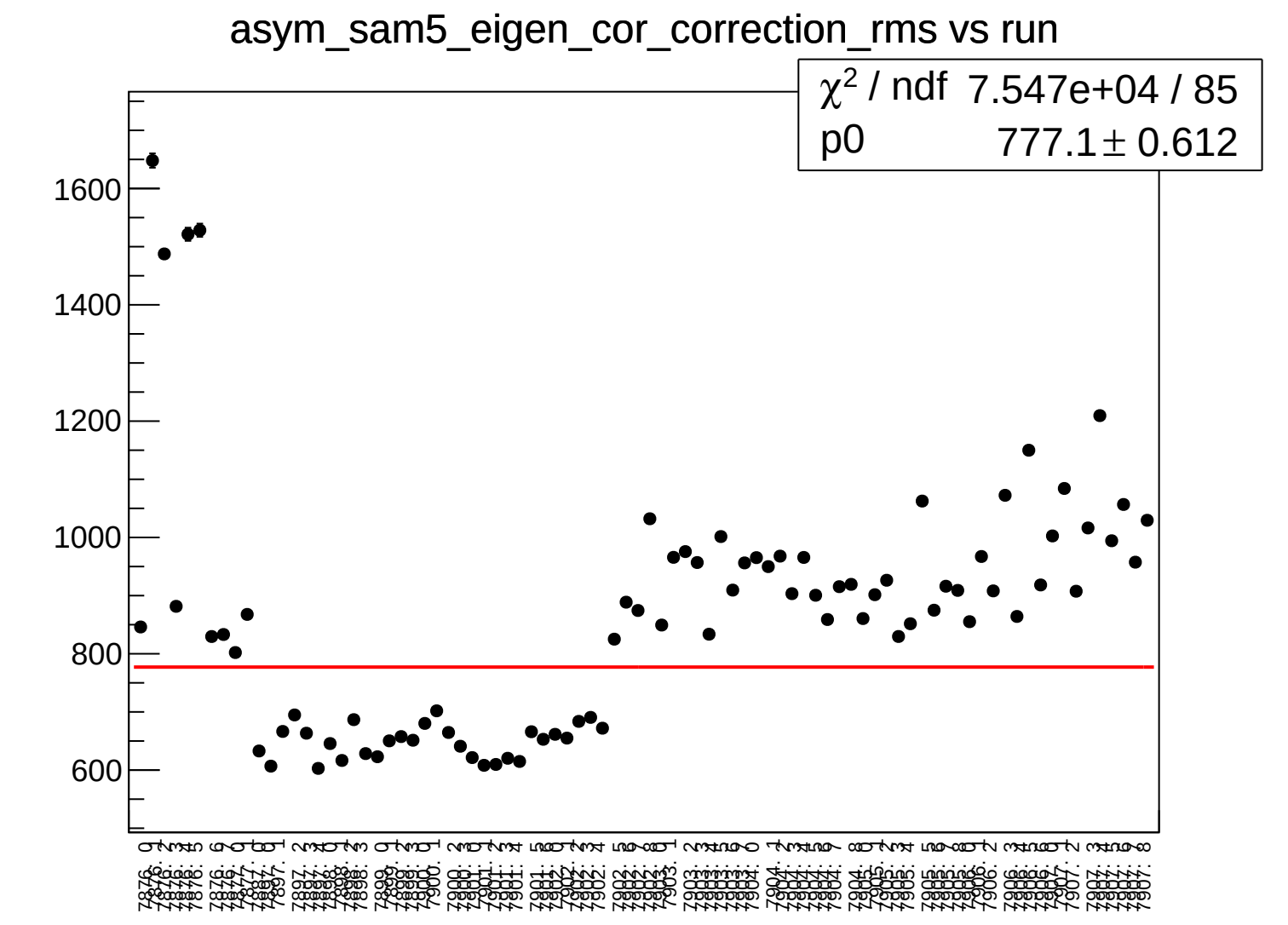

eigen_cor_asym_sam5_mean vs run
χ² / ndf 80.47 / 85
p0 89.55 ± 148.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −77.21
Std Dev 0
2
1
0
−1
−2

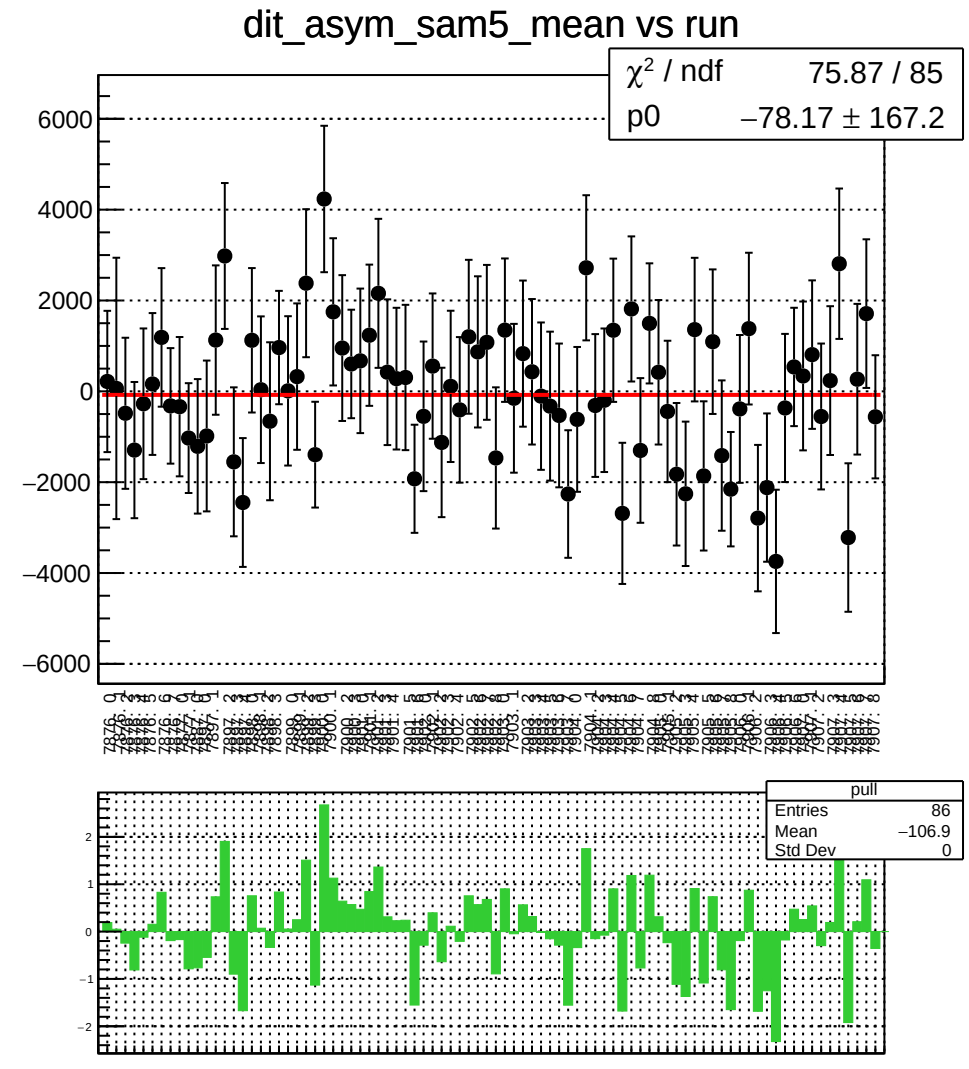

pull1D
Entries 86
Mean 0.02008
Std Dev 0.9671
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

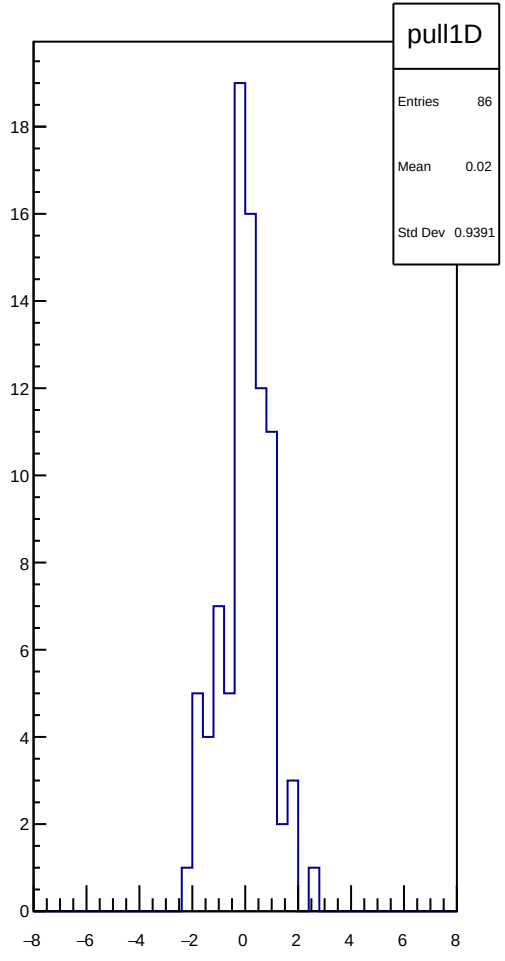

eigen_cor_asym_sam5_rms vs run
χ² / ndf 4523 / 85
p0 135.9 ± 0.1047
240
220
200
180
160
140
120

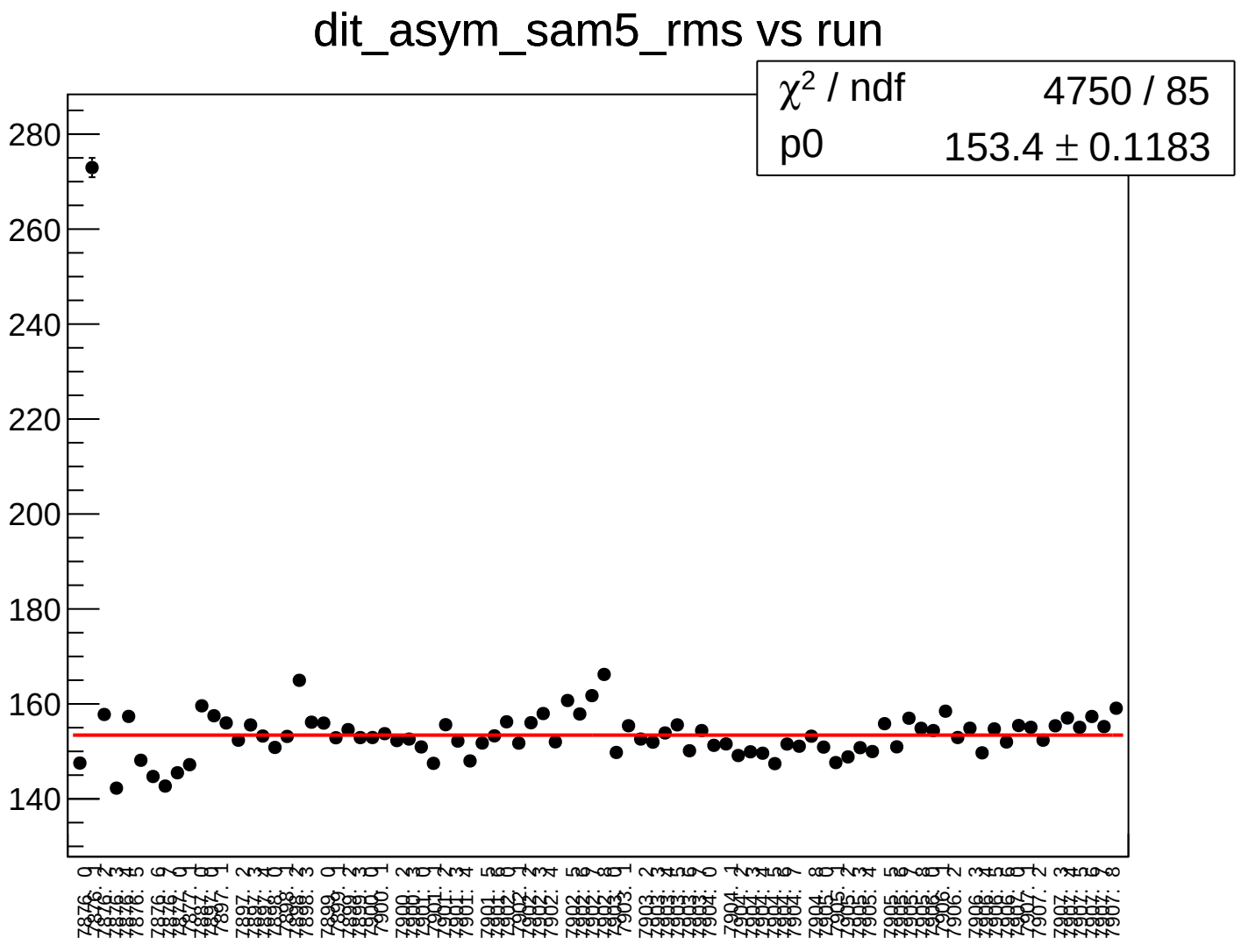

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 65.5 / 85
p0 437.9 ± 865.5
pull
Entries 86
Mean −78.18
Std Dev 0

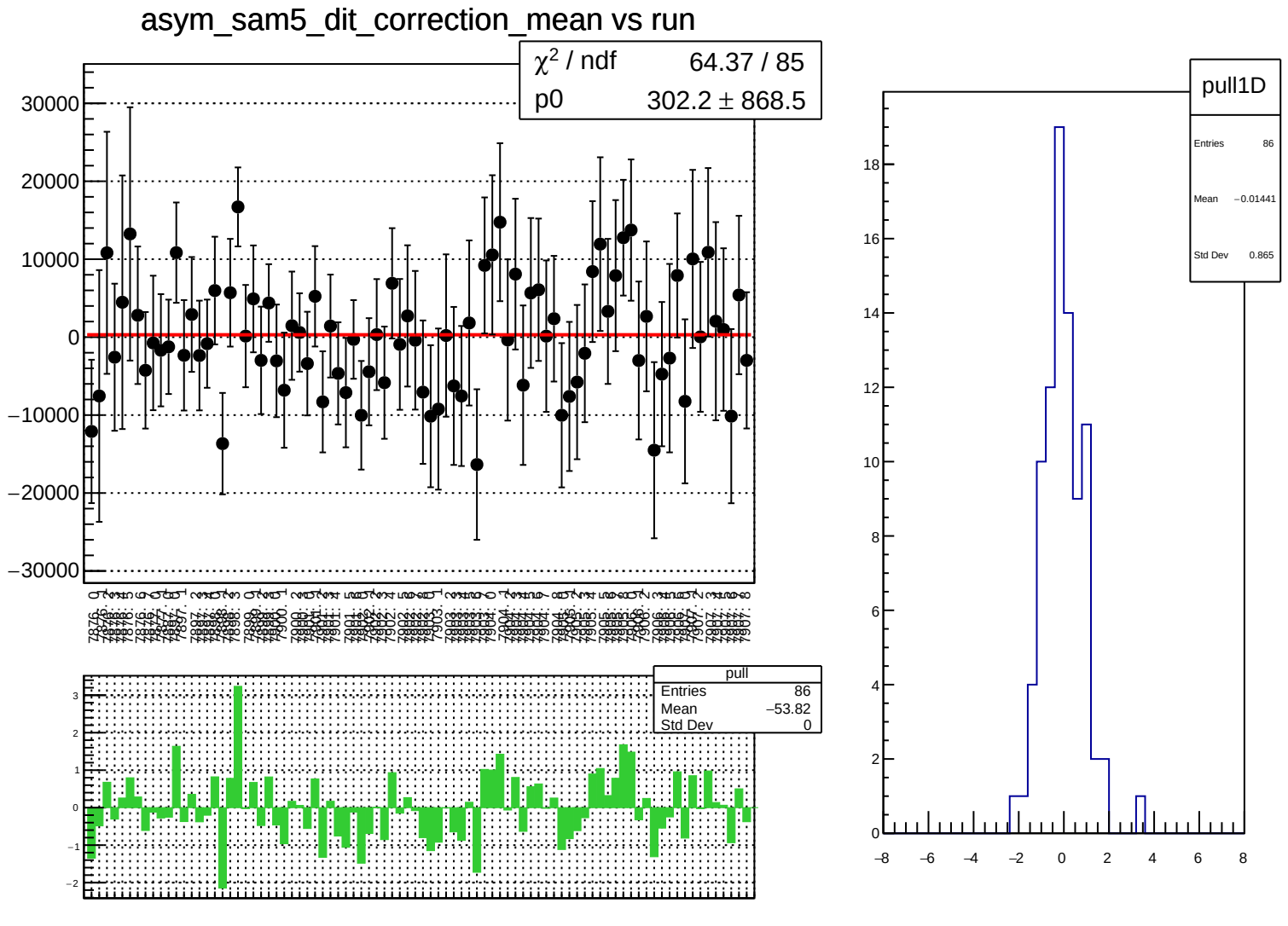

pull1D
Entries 86
Mean −0.01313
Std Dev 0.8726

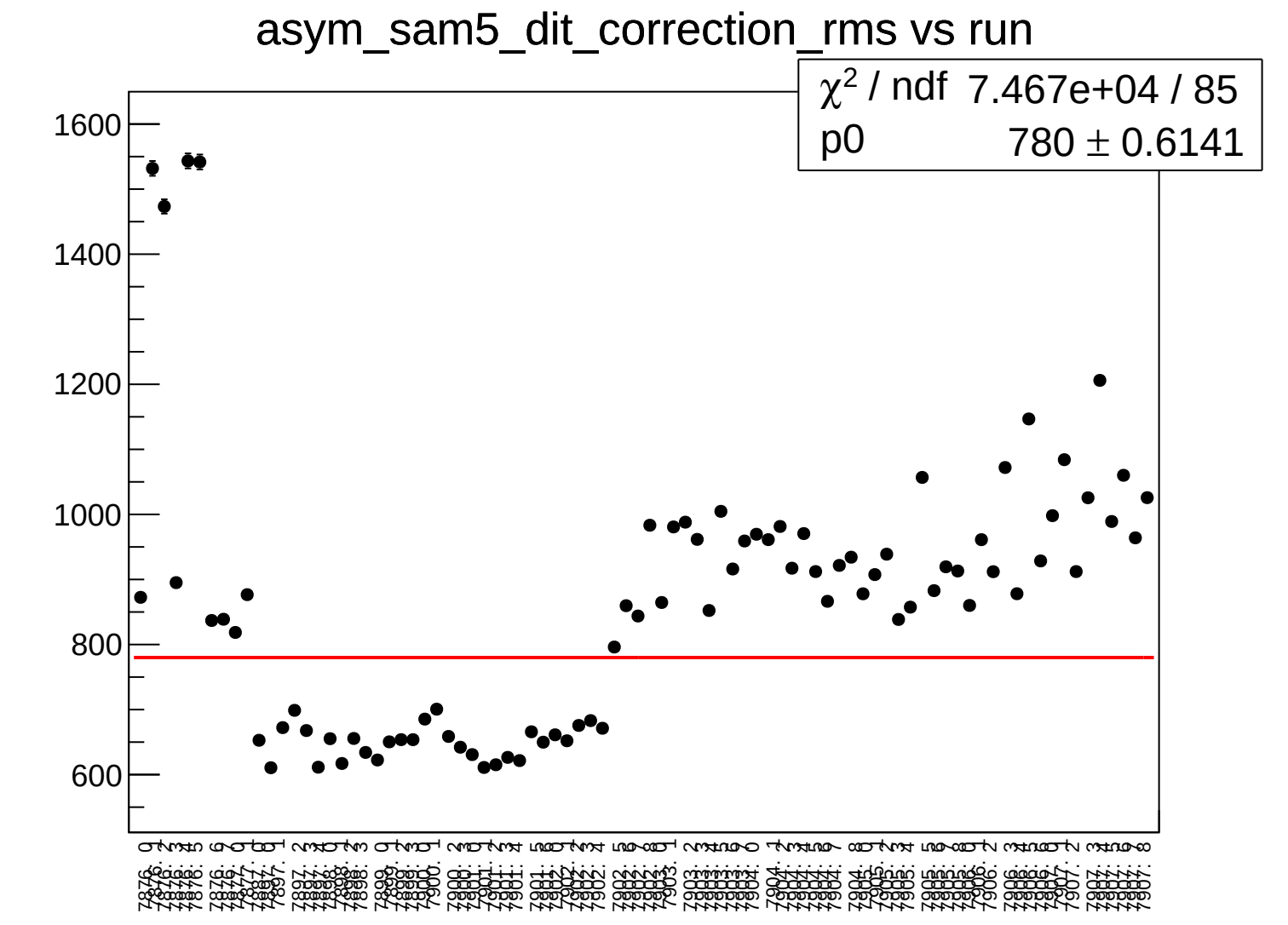

asym_sam5_eigen_cor_correction_rms vs run
χ^2 / ndf 7.547e+04 / 85
p0 777.1 ± 0.612
1600
1400
1200
1000
800
600

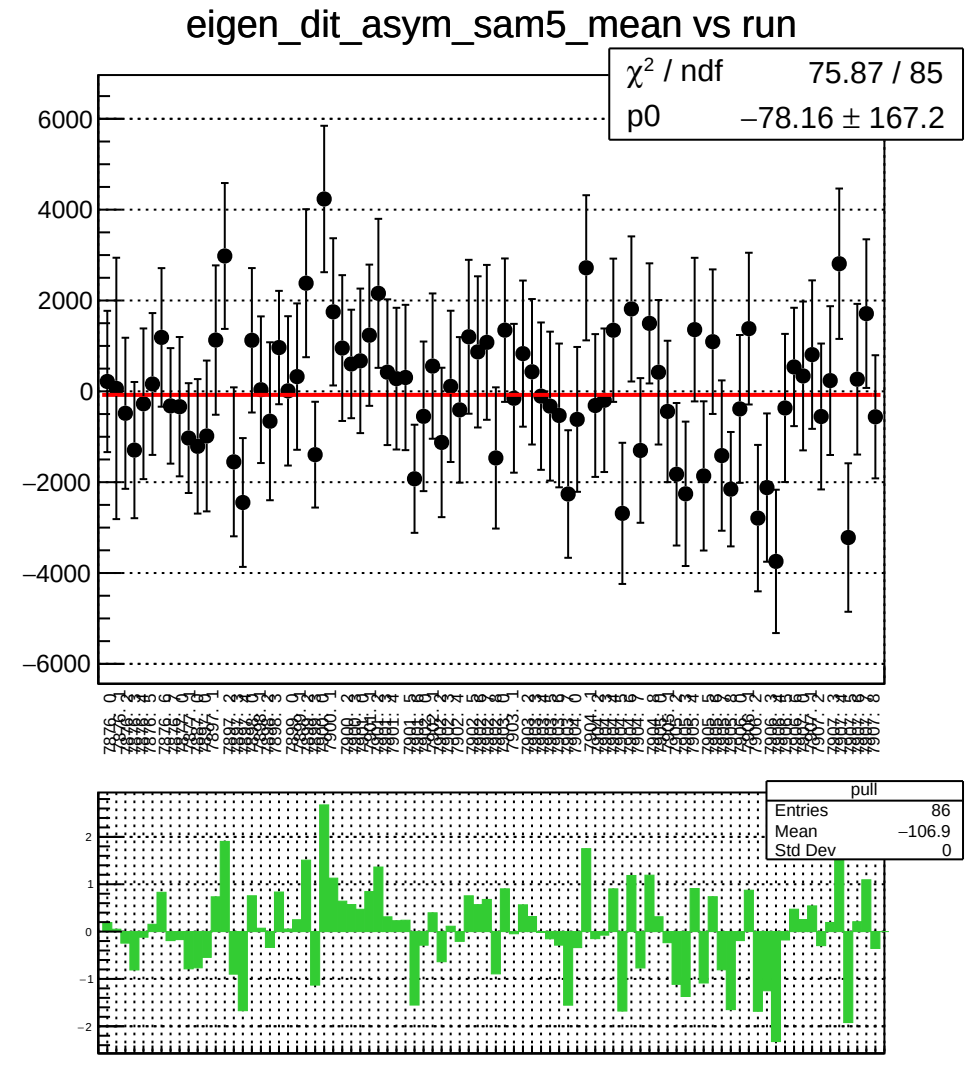

dit_asym_sam5_mean vs run
χ² / ndf 75.87 / 85
p0 −78.17 ± 167.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −106.9
Std Dev 0
2
1
0
−1
−2

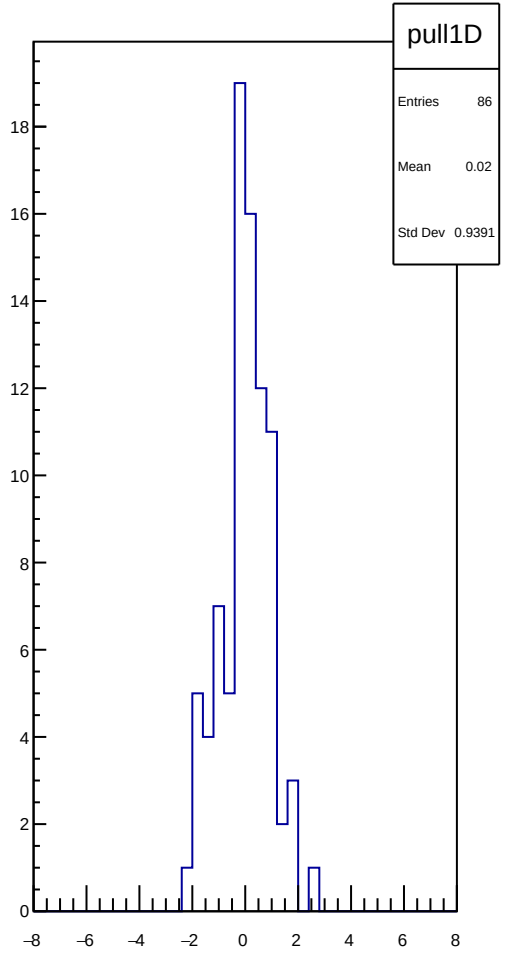

pull1D
Entries 86
Mean 0.02
Std Dev 0.9391
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

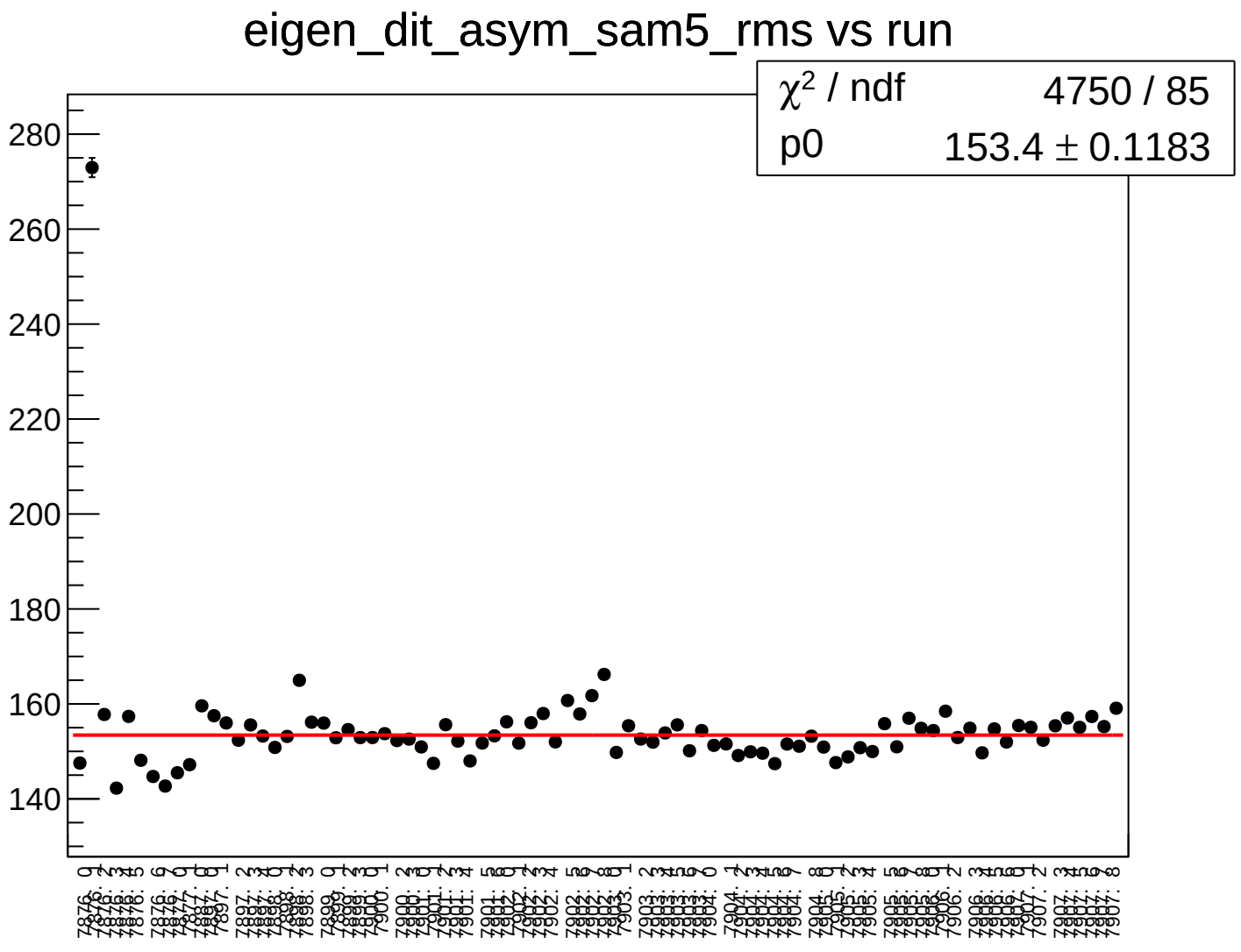

dit_asym_sam5_rms vs run
χ^2 / ndf 4750 / 85
p0 153.4 ± 0.1183
280
260
240
220
200
180
160
140

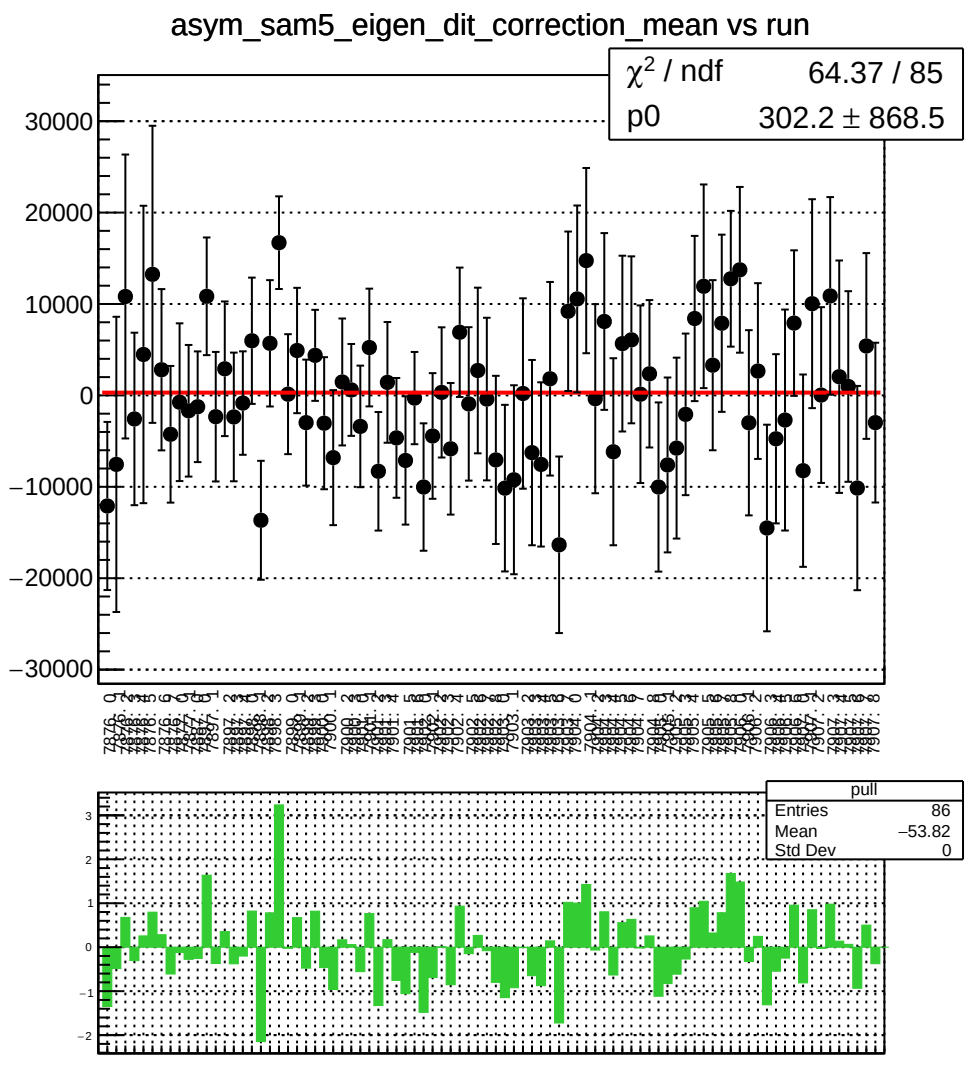

asym_sam5_dit_correction_mean vs run
χ² / ndf 64.37 / 85
p0 302.2 ± 868.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −53.82
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01441
Std Dev 0.865
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

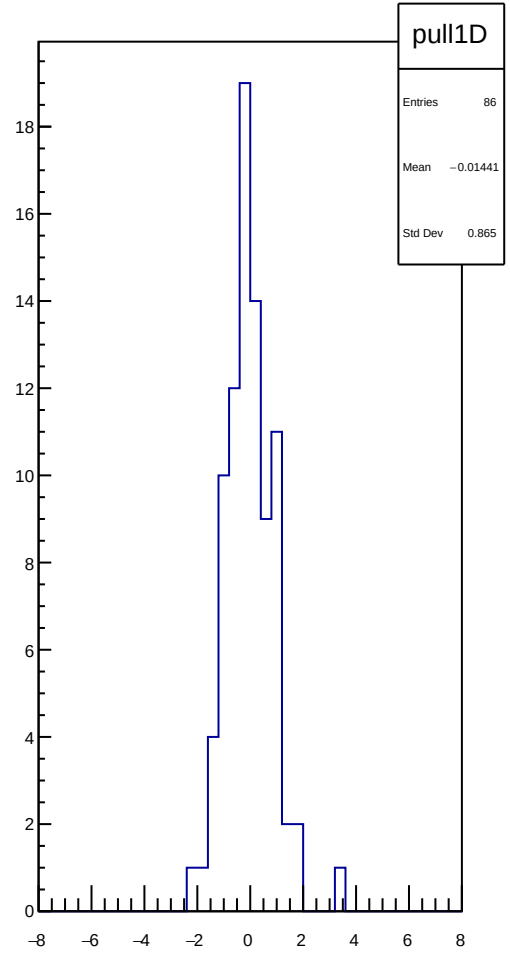

asym_sam5_dit_correction_rms vs run
χ² / ndf 7.467e+04 / 85
p0 780 ± 0.6141
1600
1400
1200
1000
800
600

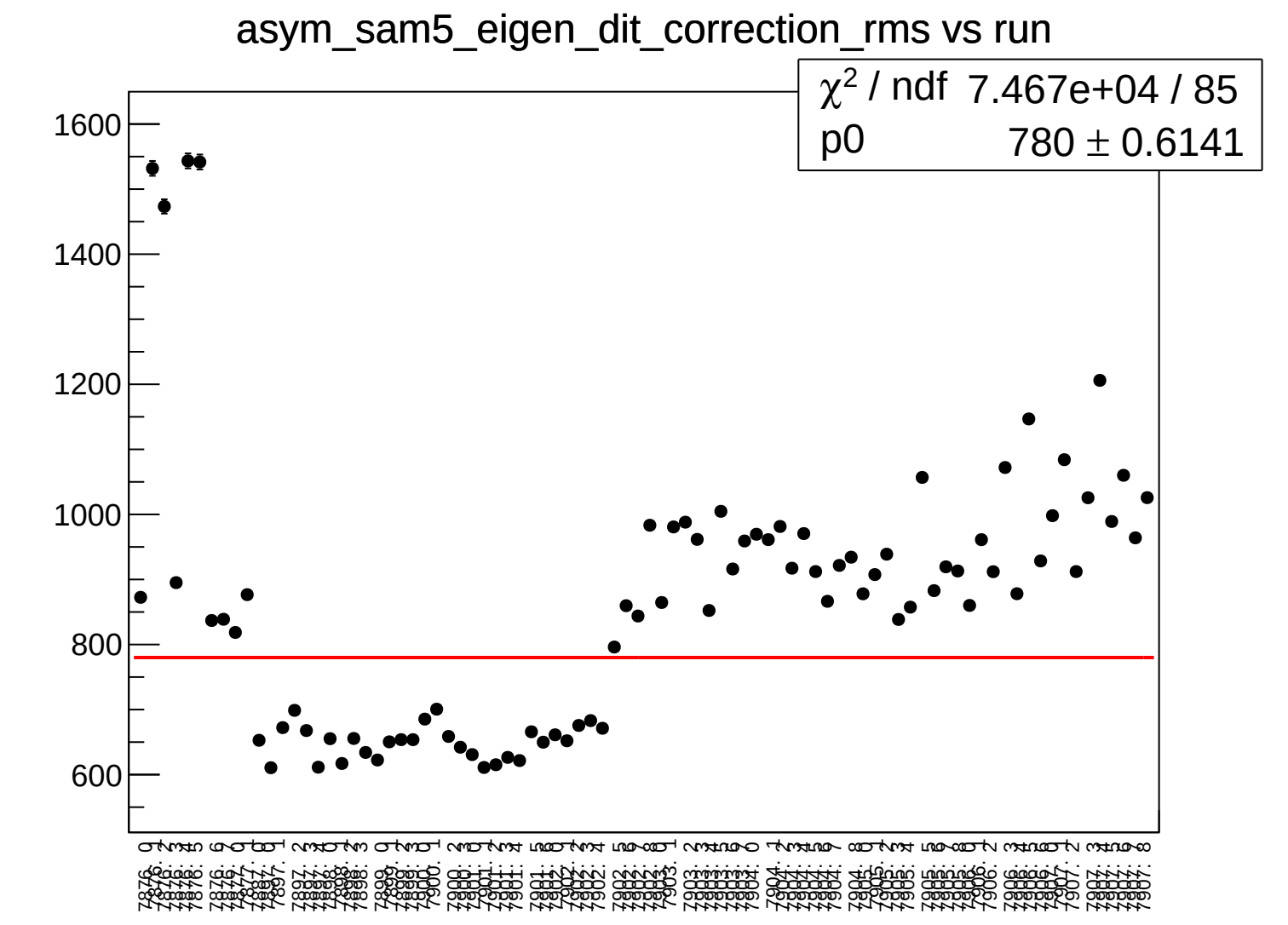

eigen_dit_asym_sam5_mean vs run
χ² / ndf 75.87 / 85
p0 −78.16 ± 167.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −106.9
Std Dev 0
2
1
0
−1
−2

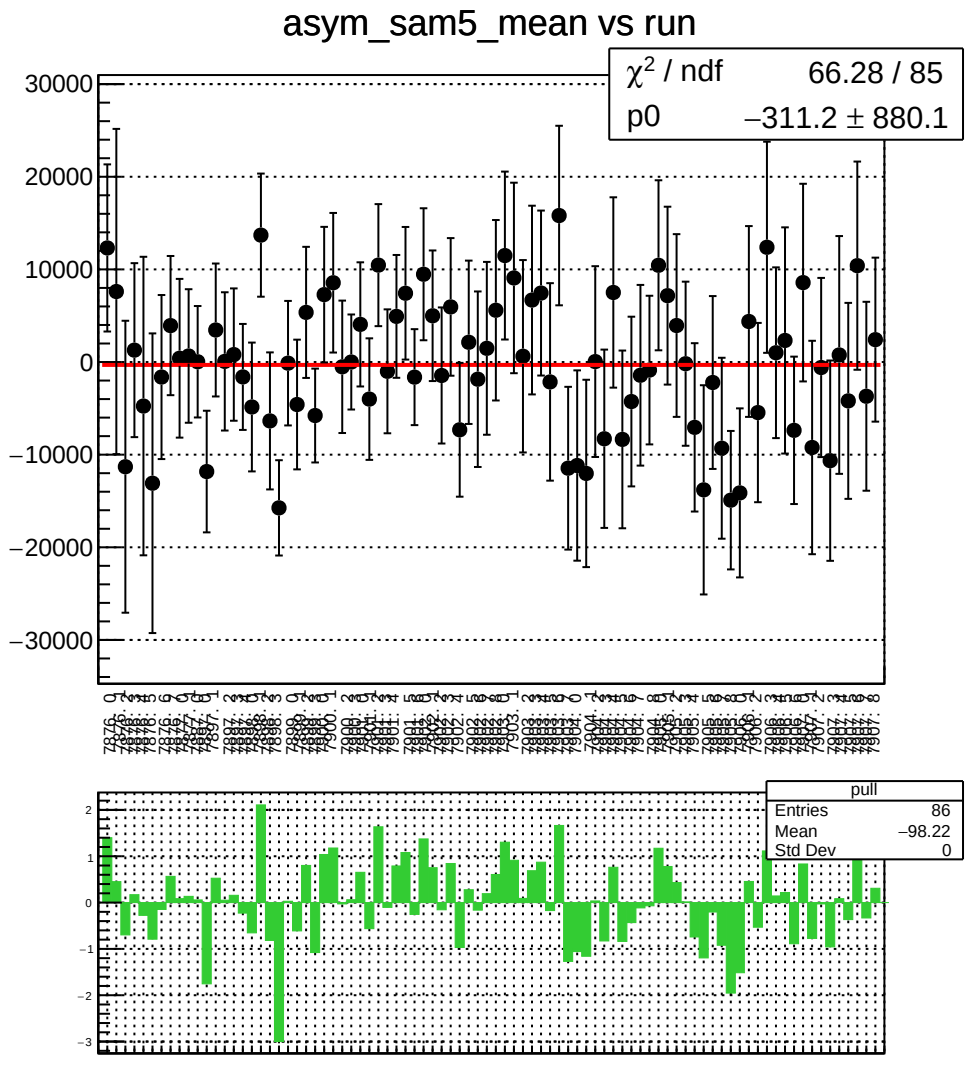

pull1D
Entries 86
Mean 0.02
Std Dev 0.9391
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

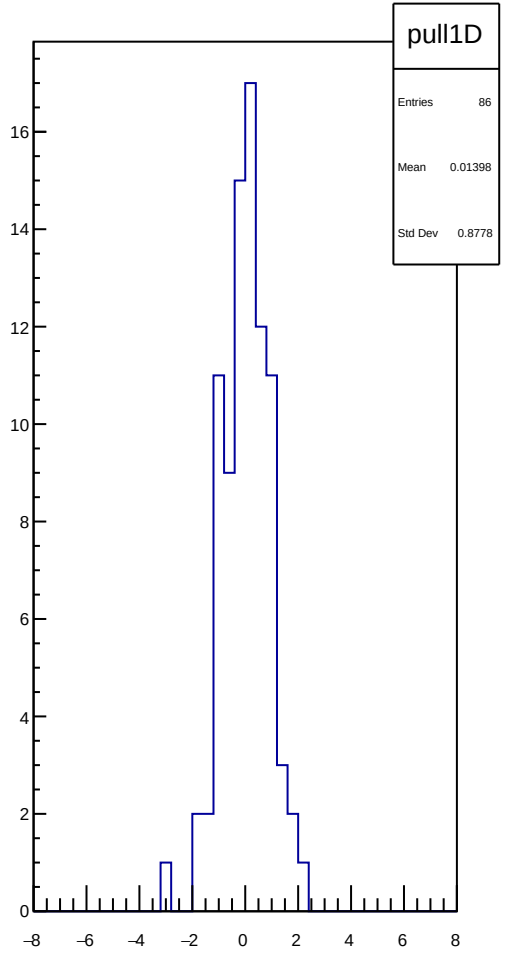

eigen_dit_asym_sam5_rms vs run
χ^2 / ndf 4750 / 85
p0 153.4 ± 0.1183
280
260
240
220
200
180
160
140

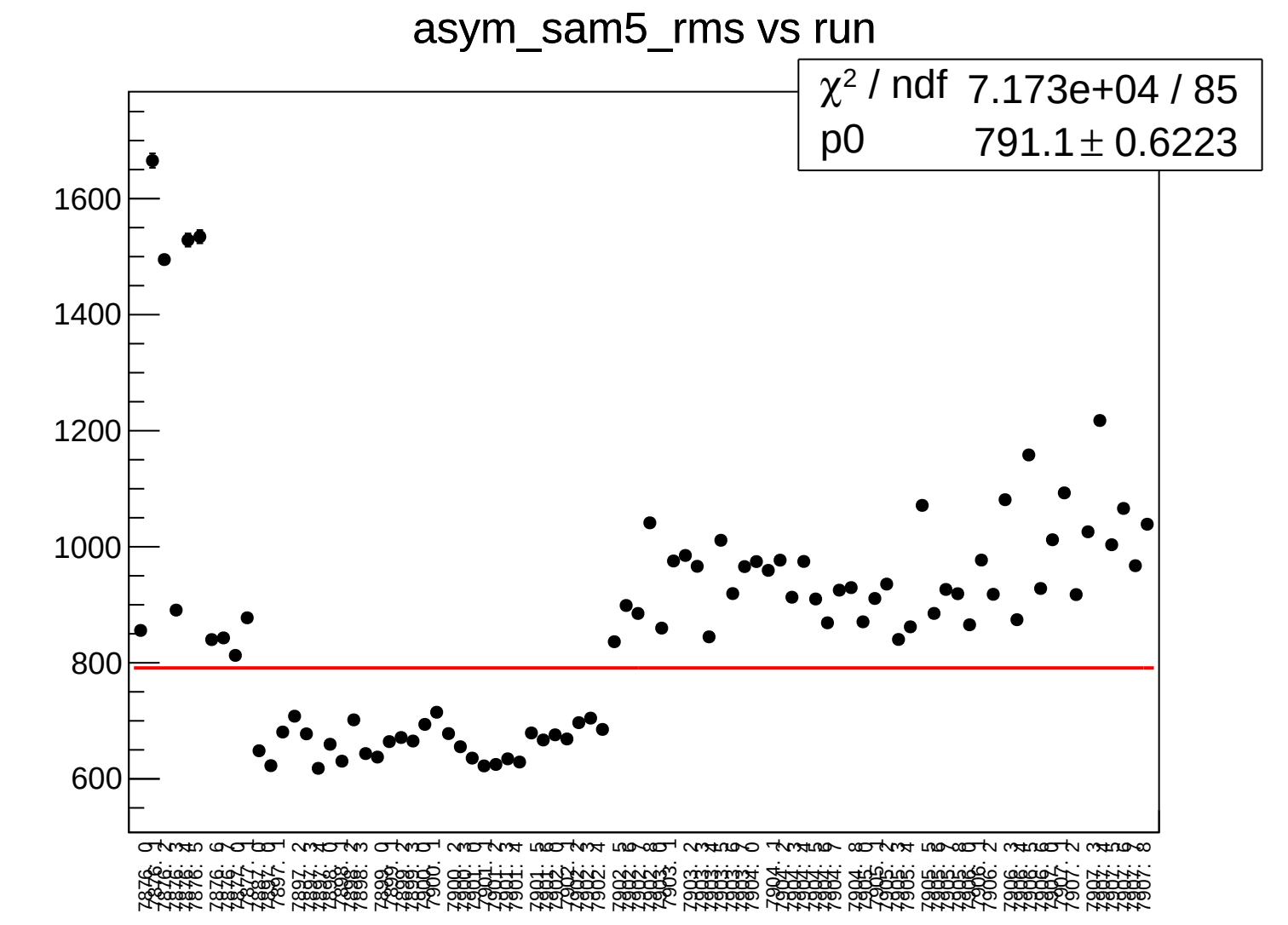

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 64.37 / 85
p0 302.2 ± 868.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −53.82
Std Dev 0
3
2
1
0
−1
−2

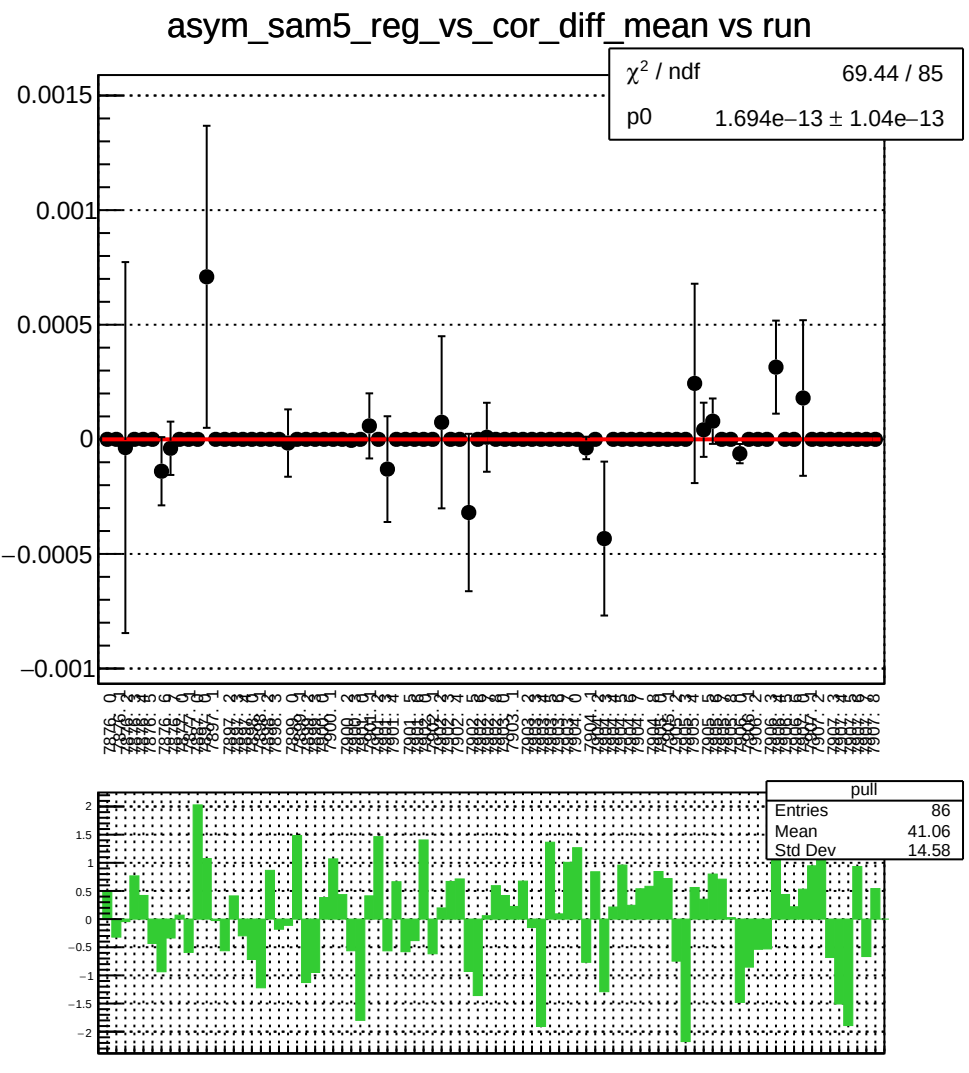

pull1D
Entries 86
Mean −0.01441
Std Dev 0.865
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

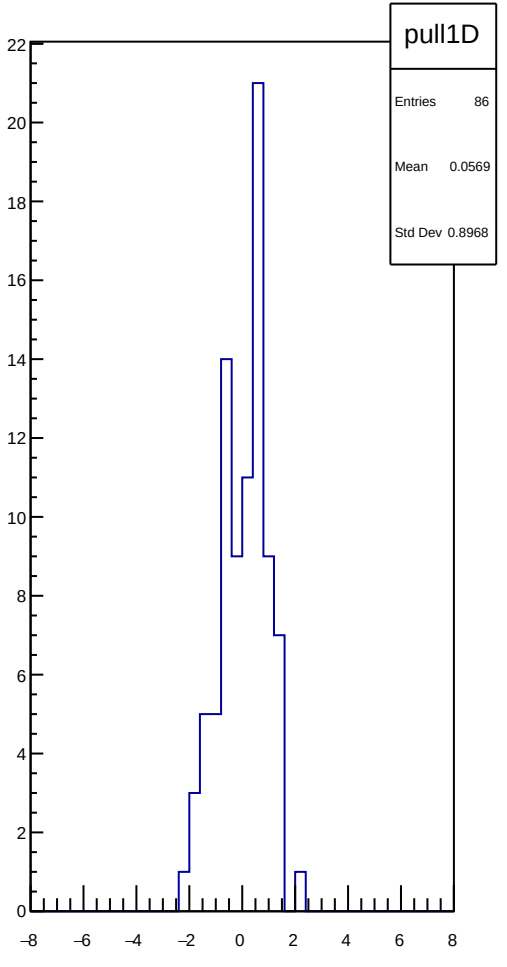

asym_sam5_eigen_dit_correction_rms vs run
χ^2 / ndf 7.467e+04 / 85
p0 780 ± 0.6141
1600
1400
1200
1000
800
600

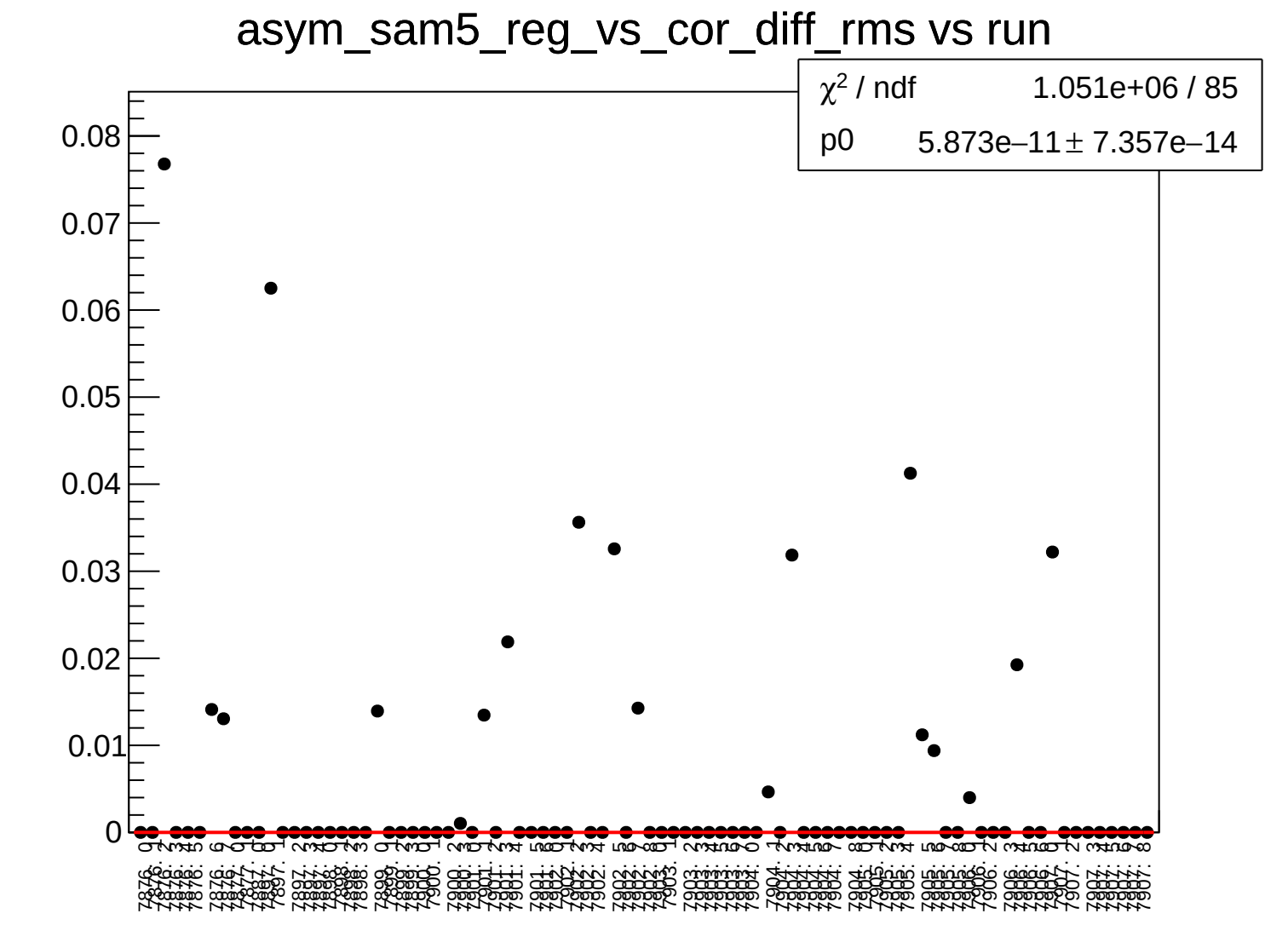

asym_sam5_mean vs run
χ² / ndf 66.28 / 85
p0 −311.2 ± 880.1
pull
Entries 86
Mean −98.22
Std Dev 0

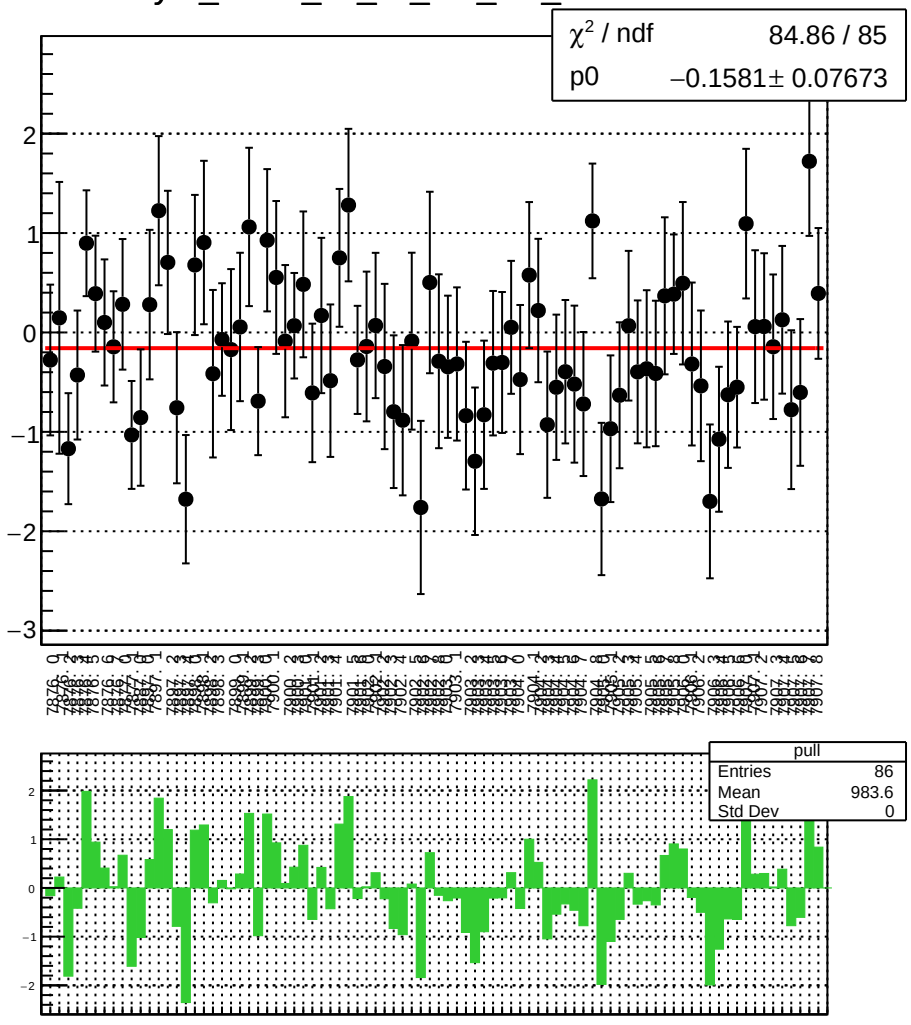

pull1D
Entries 86
Mean 0.01398
Std Dev 0.8778

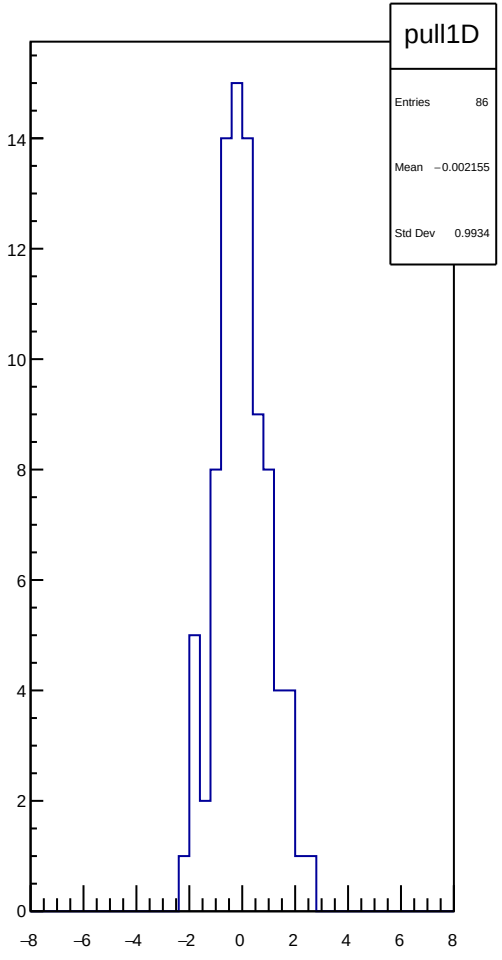

asym_sam5_rms vs run
χ² / ndf 7.173e+04 / 85
p0 791.1 ± 0.6223
1600
1400
1200
1000
800
600

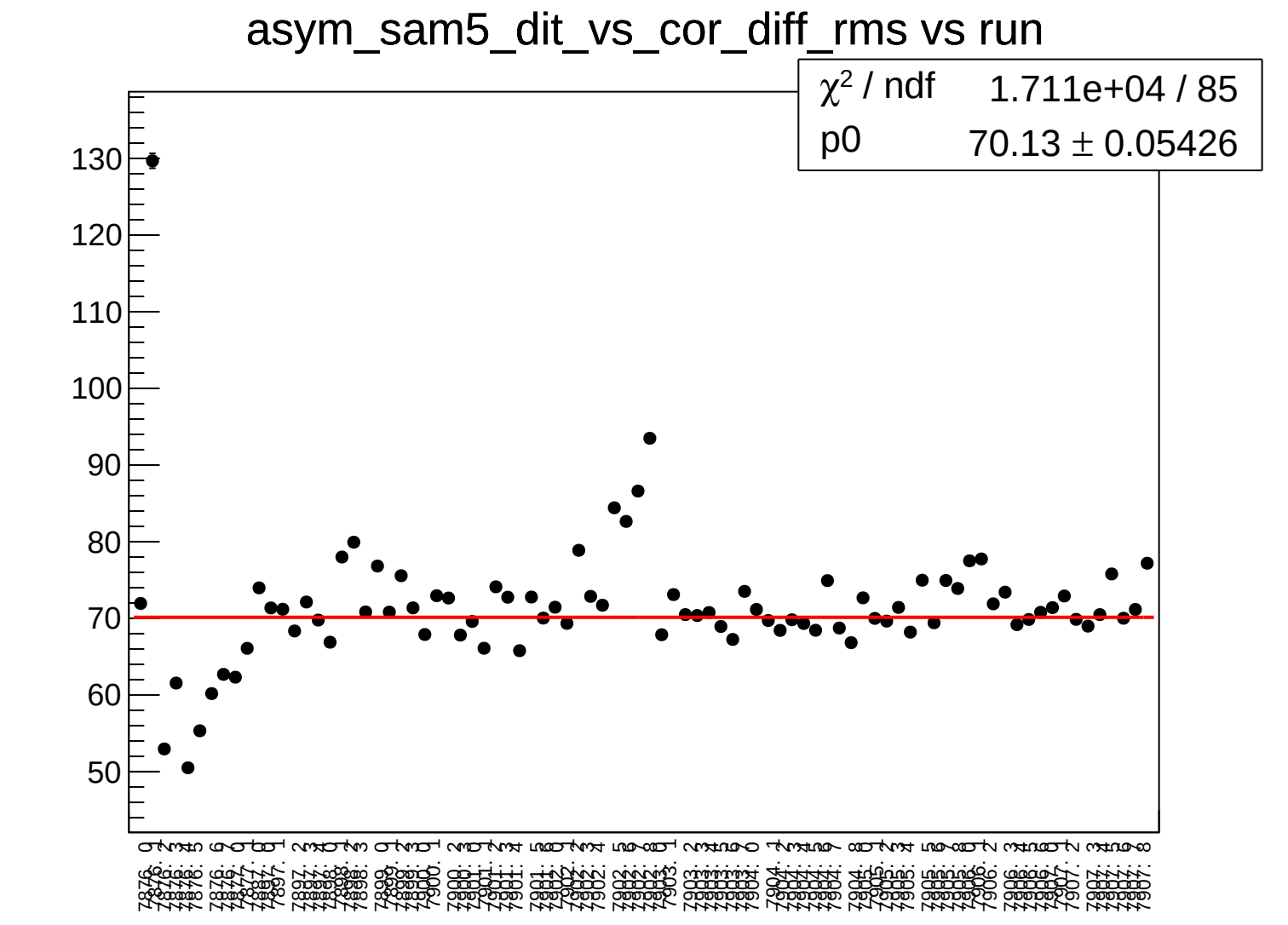

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 69.44 / 85
p0 1.694e−13 ± 1.04e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 41.06
Std Dev 14.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

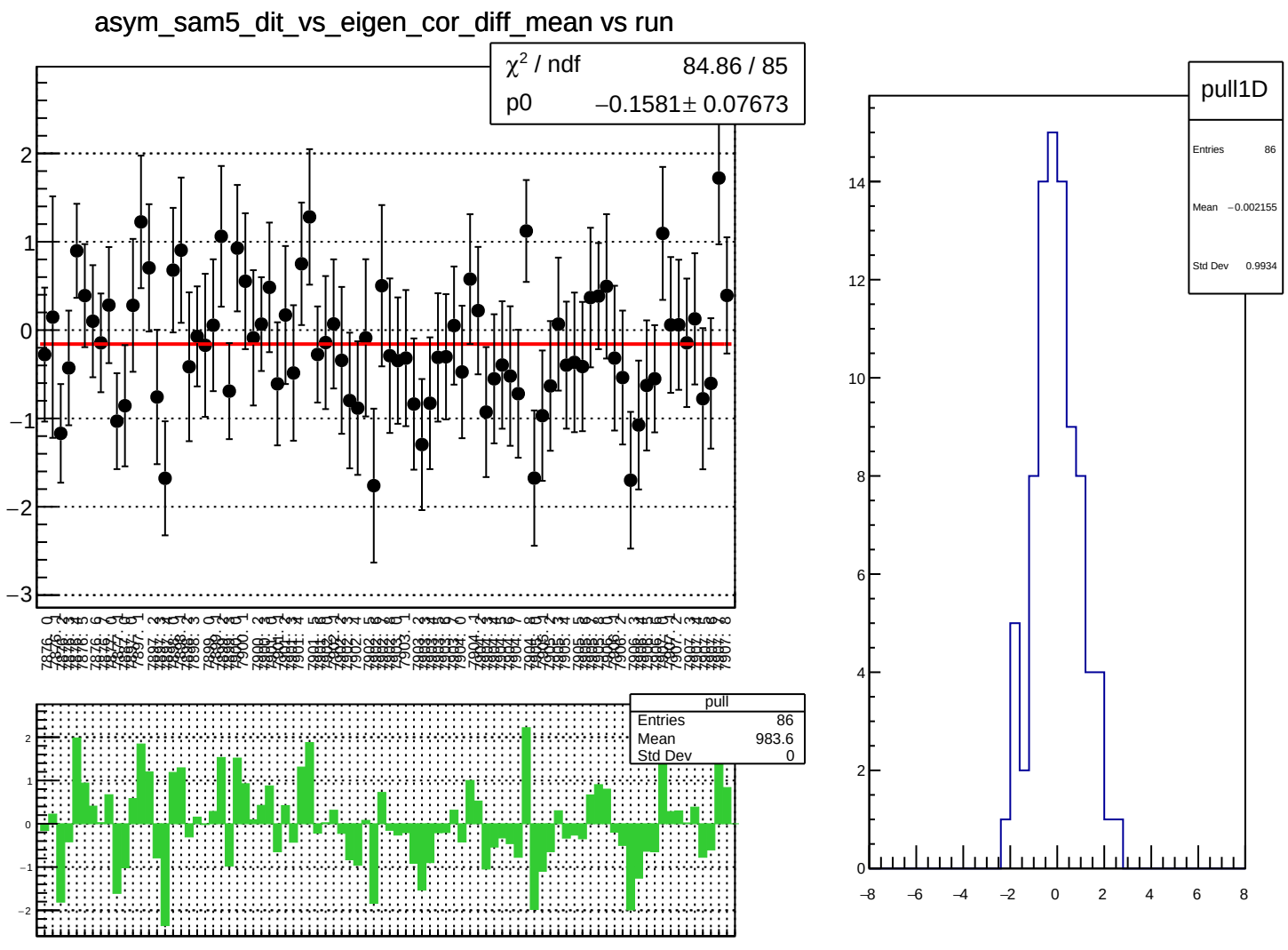

pull1D
Entries 86
Mean 0.0569
Std Dev 0.8968
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

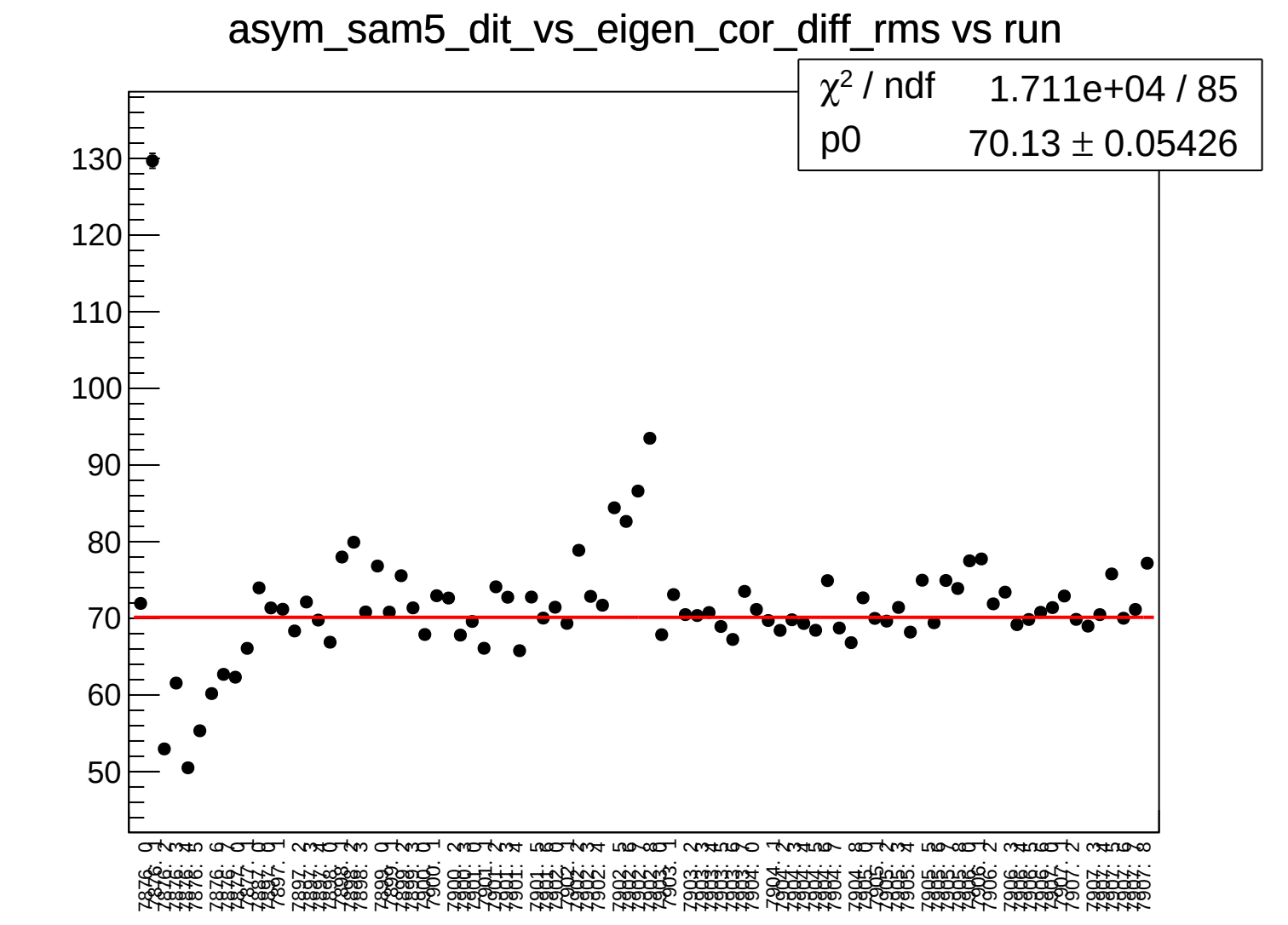

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 85
p0 5.873e−11 ± 7.357e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

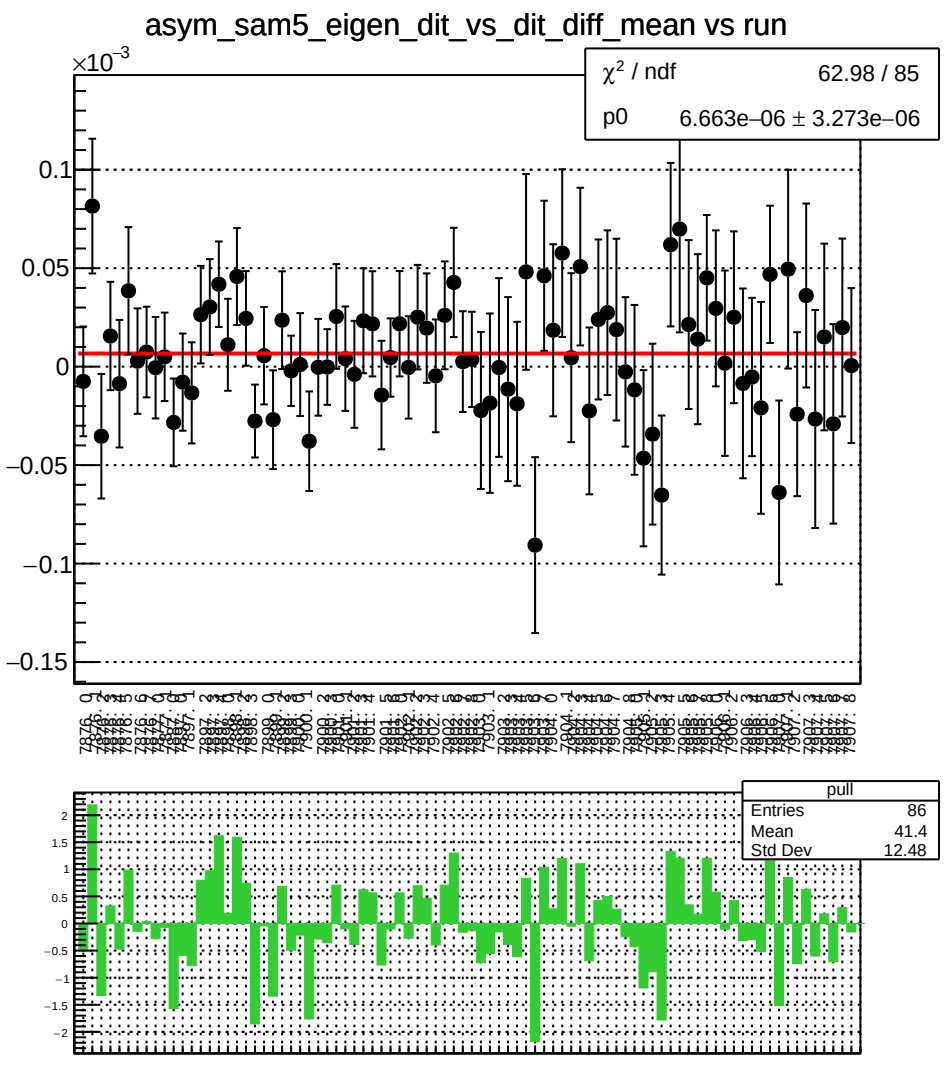

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 84.86 / 85
p0 −0.1581± 0.07673
pull
Entries 86
Mean 983.6
Std Dev 0

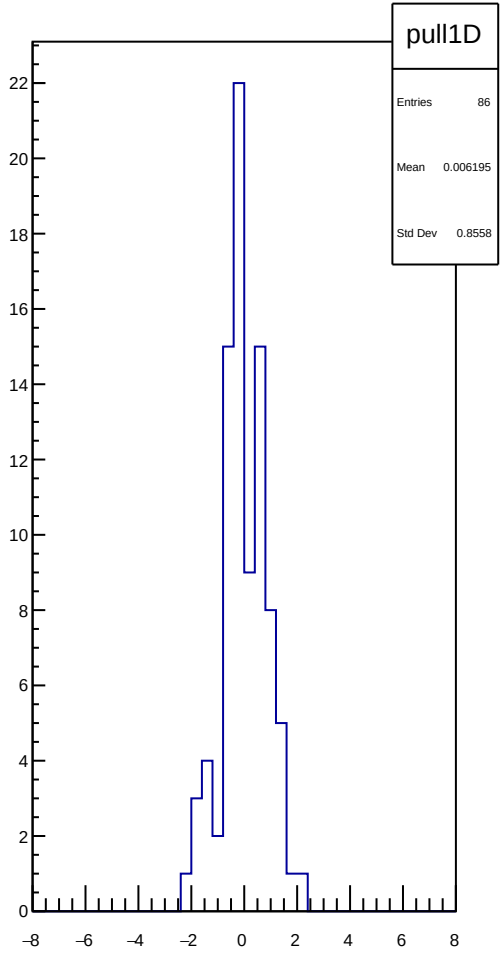

pull1D
Entries 86
Mean −0.002155
Std Dev 0.9934

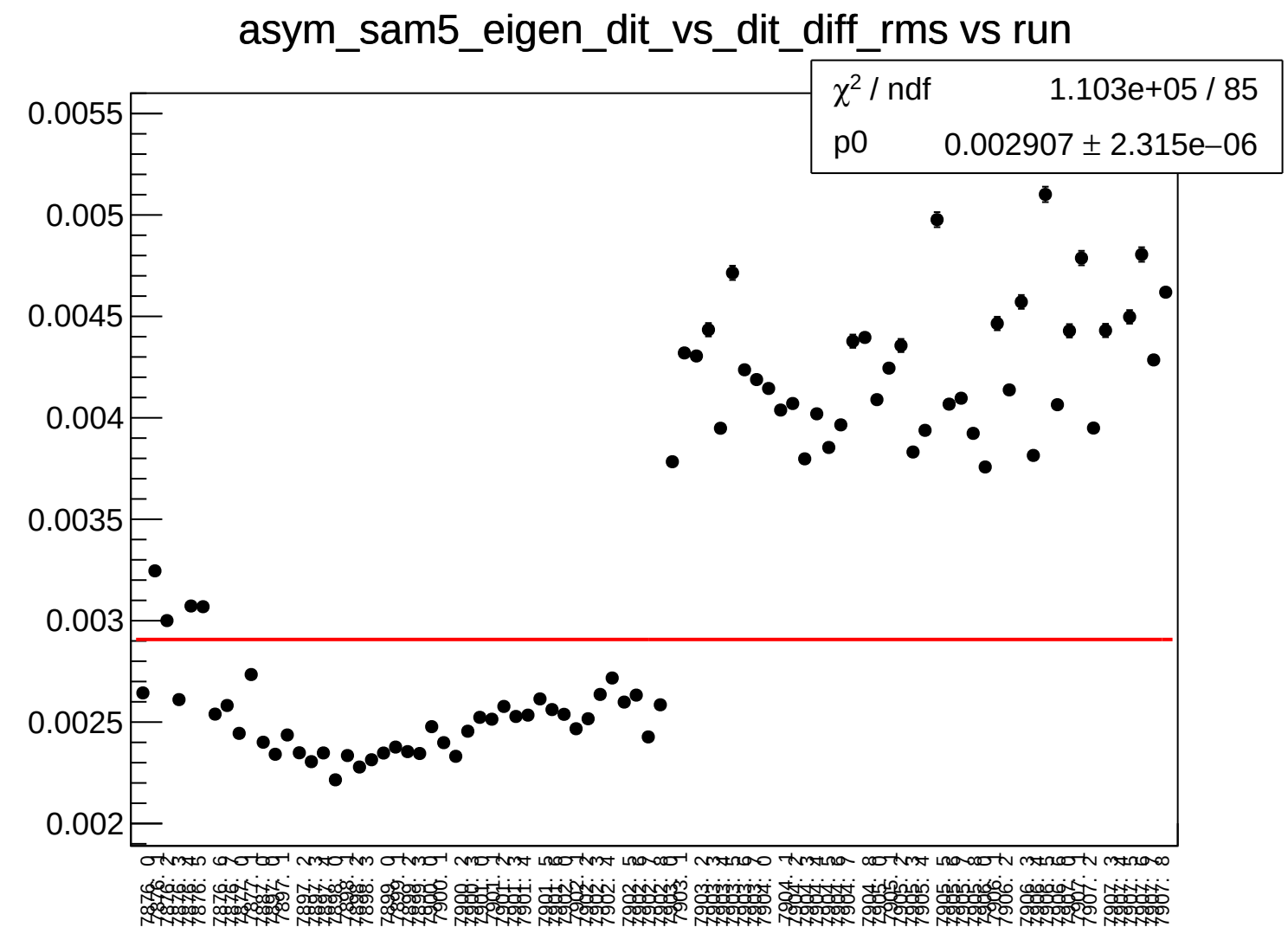

asym_sam5_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.711e+04 / 85
p0 70.13 ± 0.05426
130
120
110
100
90
80
70
60
50

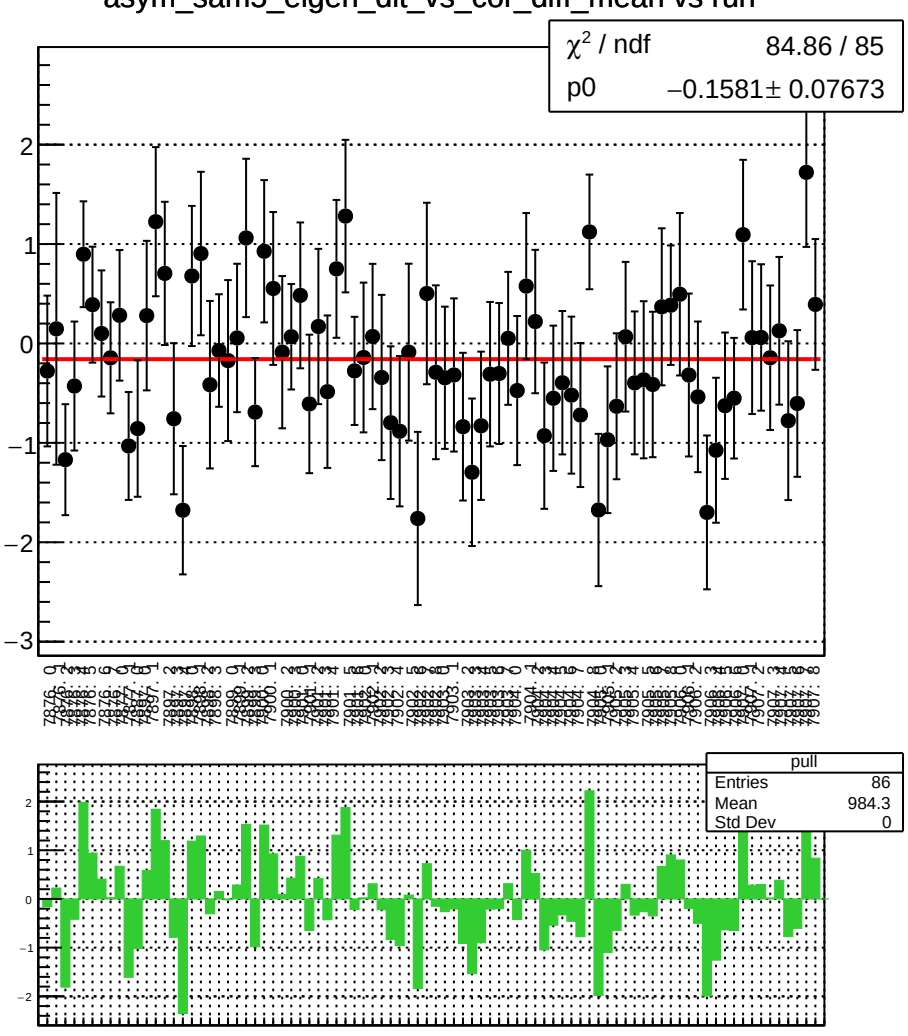

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.86 / 85
p0 −0.1581± 0.07673
pull
Entries 86
Mean 983.6
Std Dev 0
pull1D
Entries 86
Mean −0.002155
Std Dev 0.9934

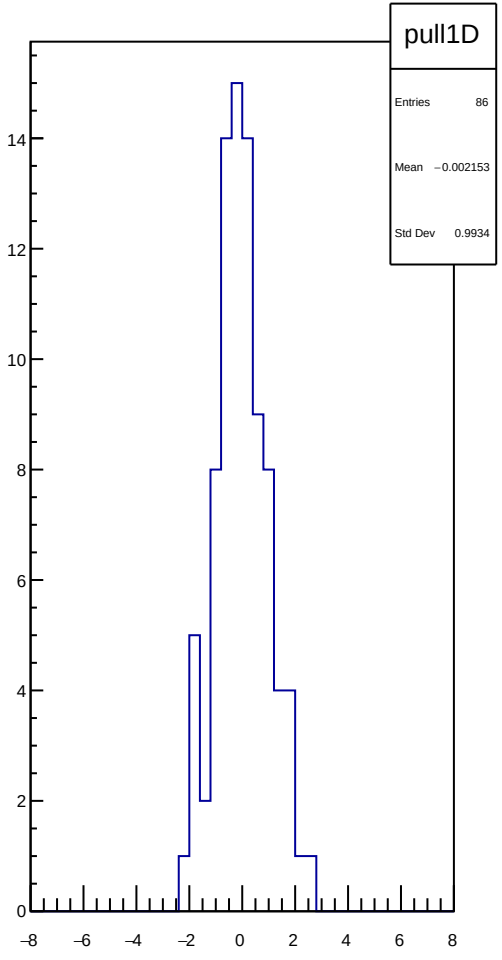

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.711e+04 / 85
p0 70.13 ± 0.05426
130
120
110
100
90
80
70
60
50

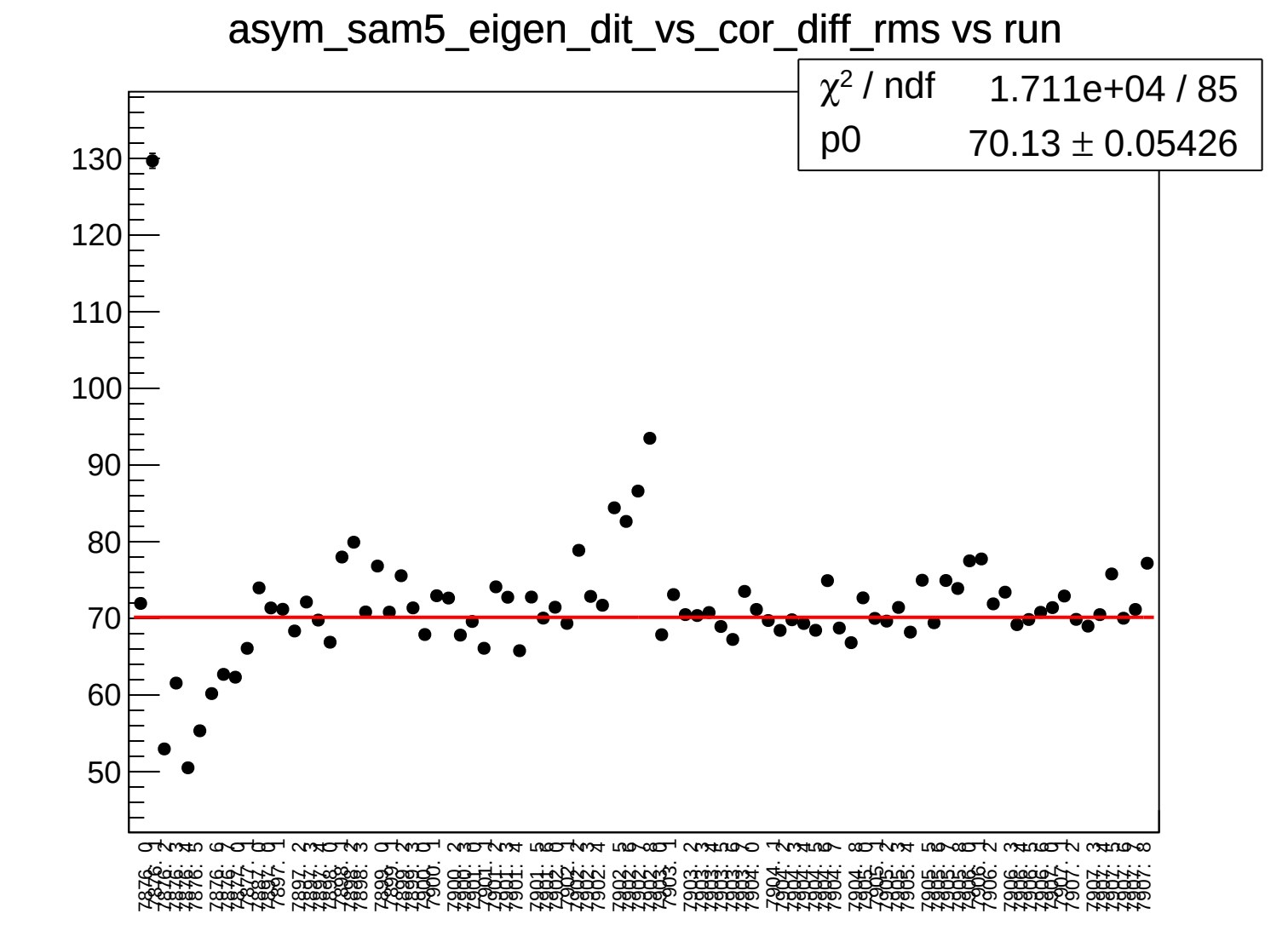

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.98 / 85
p0 6.663e−06 ± 3.273e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 41.4
Std Dev 12.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

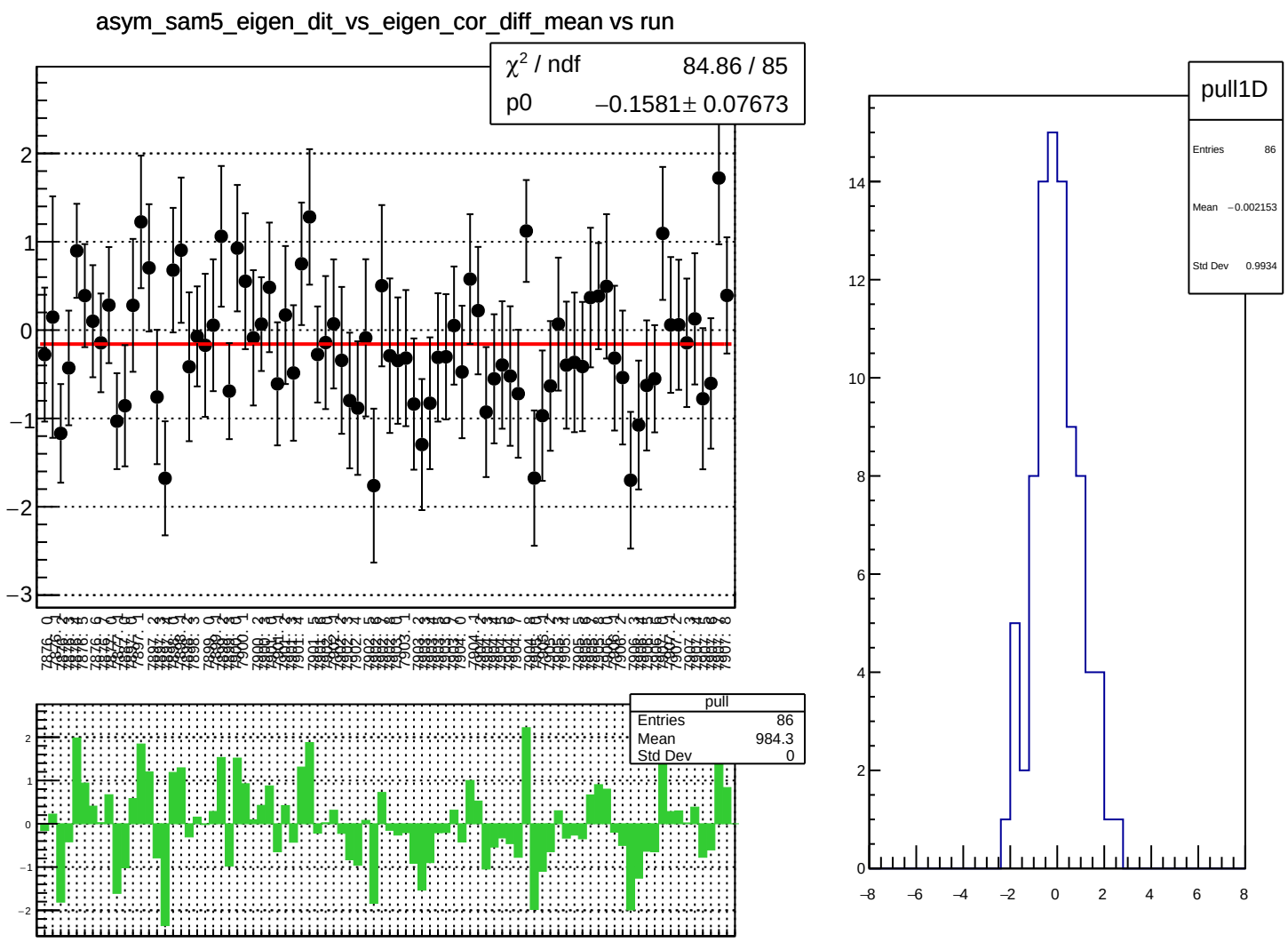

pull1D
Entries 86
Mean 0.006195
Std Dev 0.8558
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

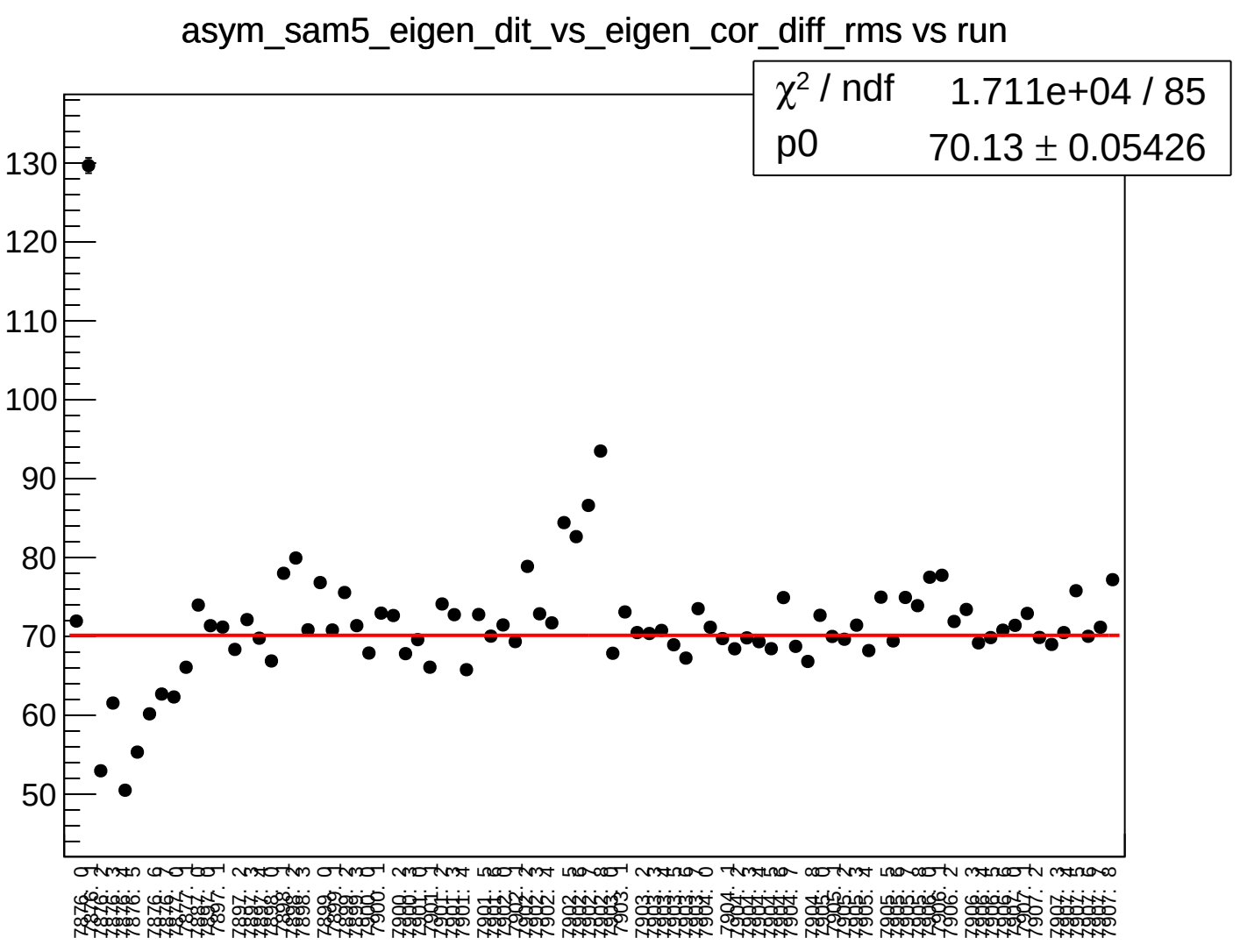

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.103e+05 / 85
p0 0.002907 ± 2.315e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

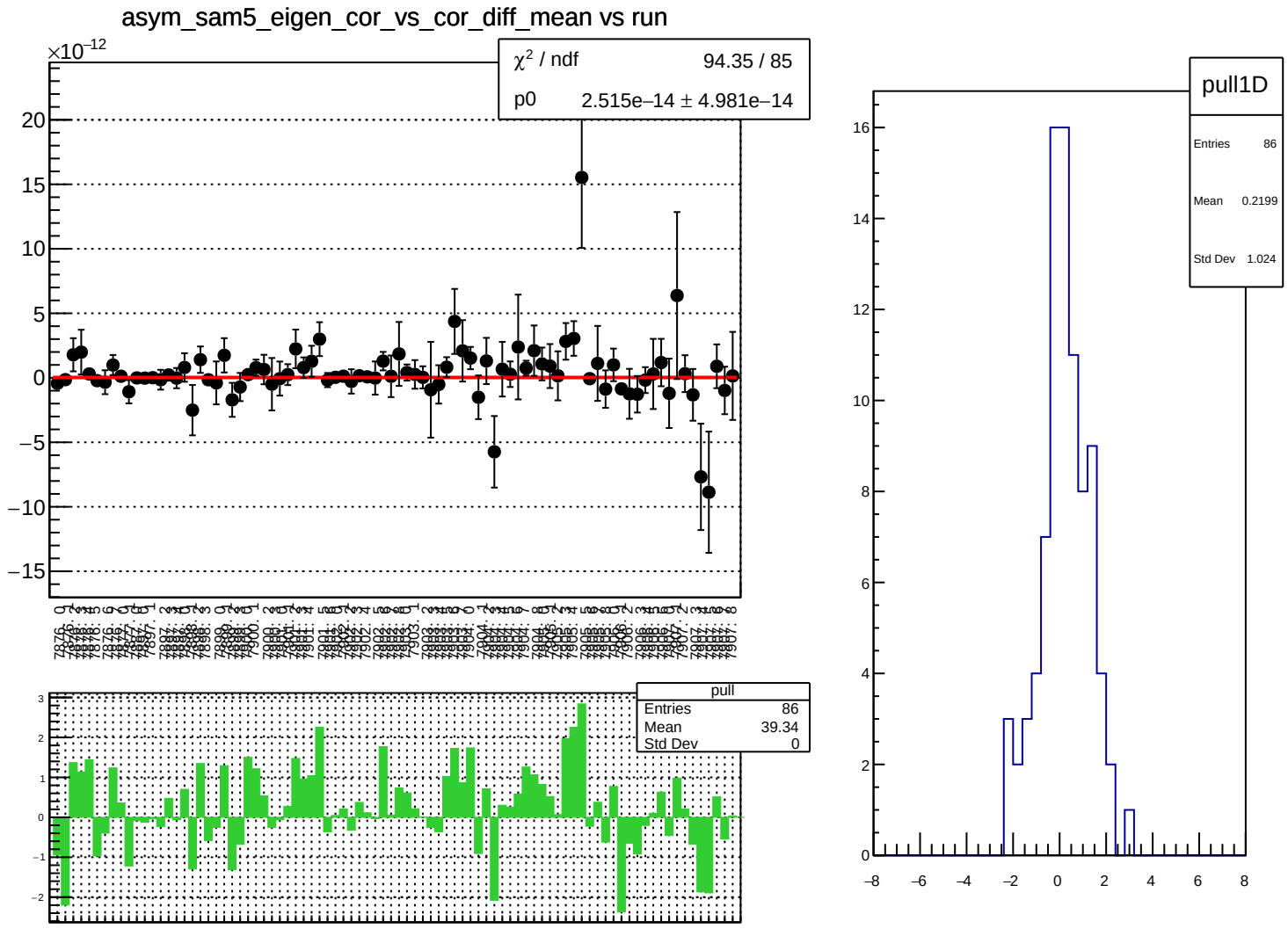

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.86 / 85
p0 −0.1581± 0.07673
pull
Entries 86
Mean 984.3
Std Dev 0

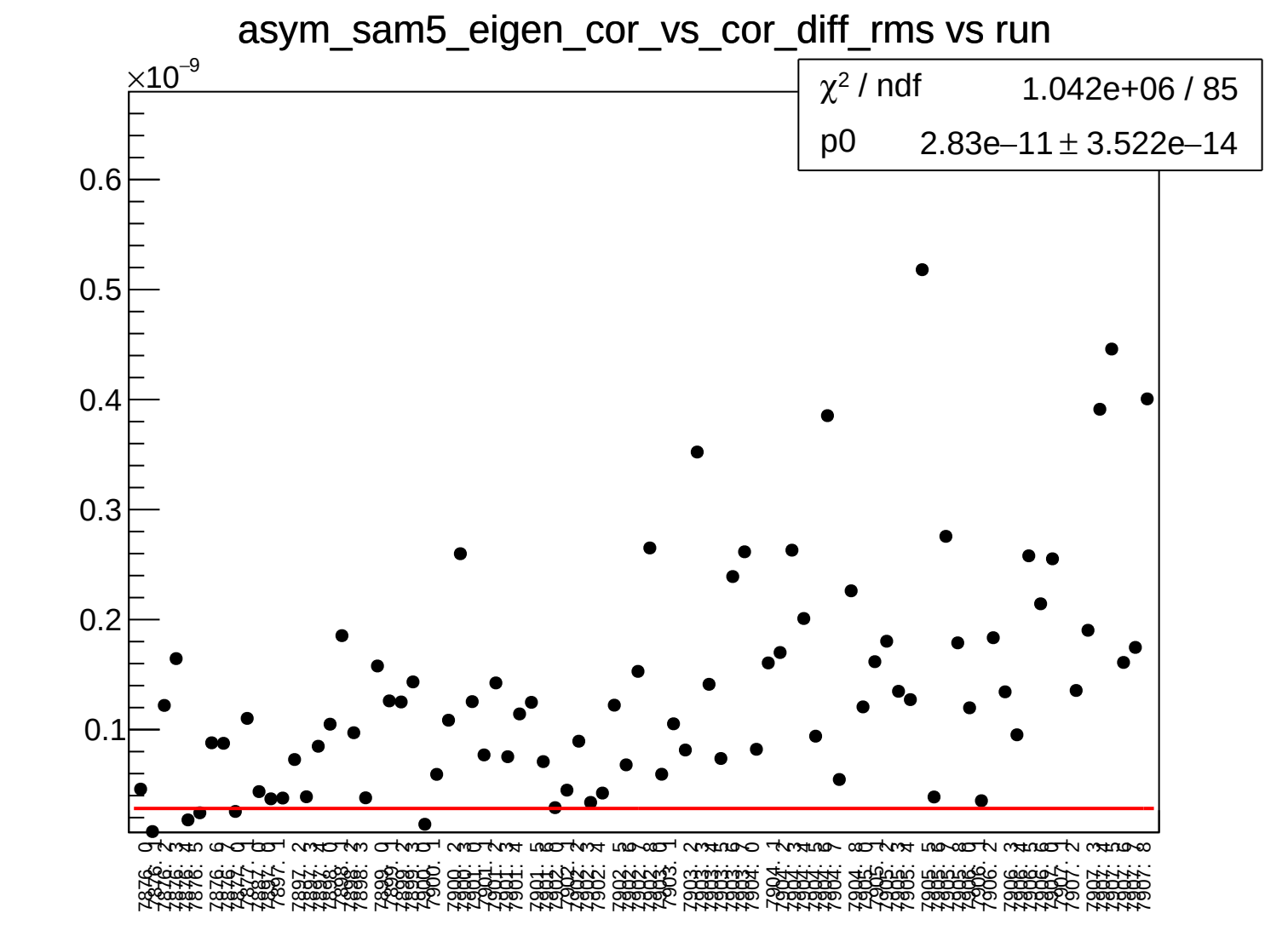

pull1D
Entries 86
Mean −0.002153
Std Dev 0.9934

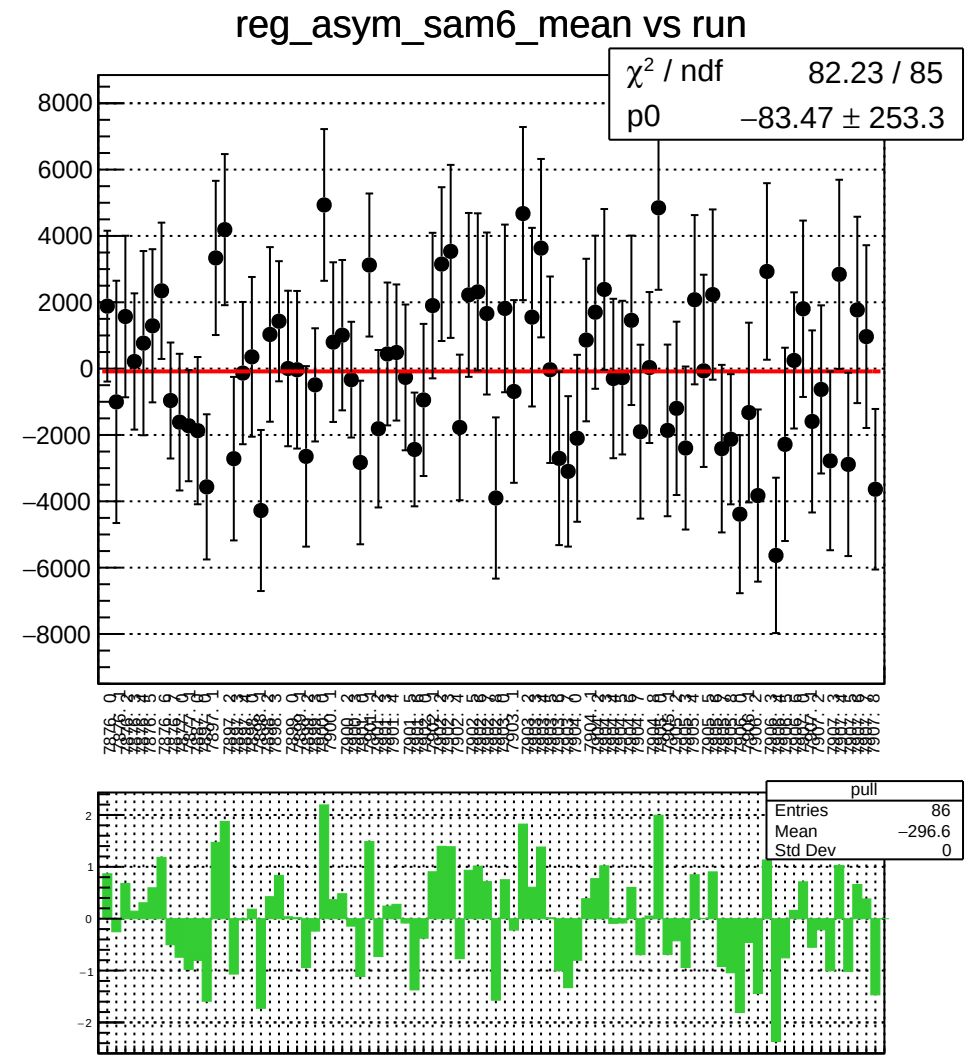

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.711e+04 / 85
p0 70.13 ± 0.05426
130
120
110
100
90
80
70
60
50

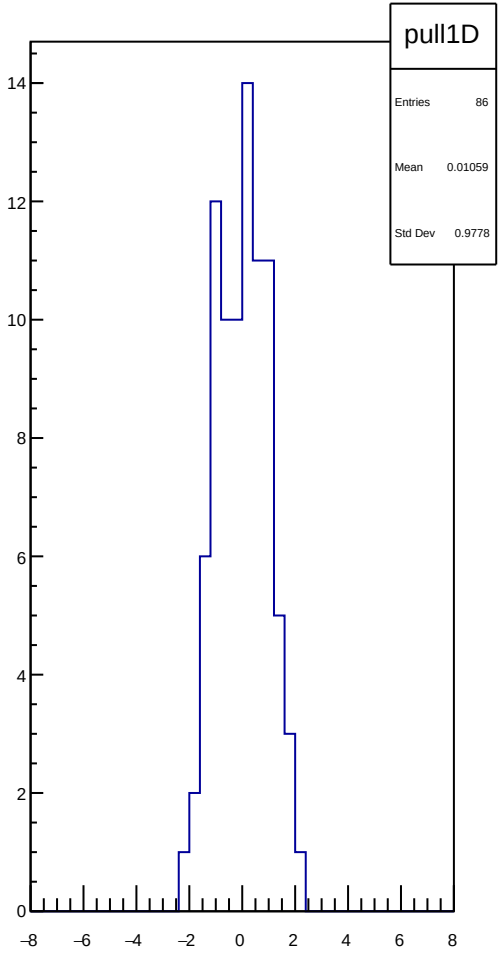

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.86 / 85
p0 −0.1581± 0.07673
pull
Entries 86
Mean 984.3
Std Dev 0
pull1D
Entries 86
Mean −0.002153
Std Dev 0.9934

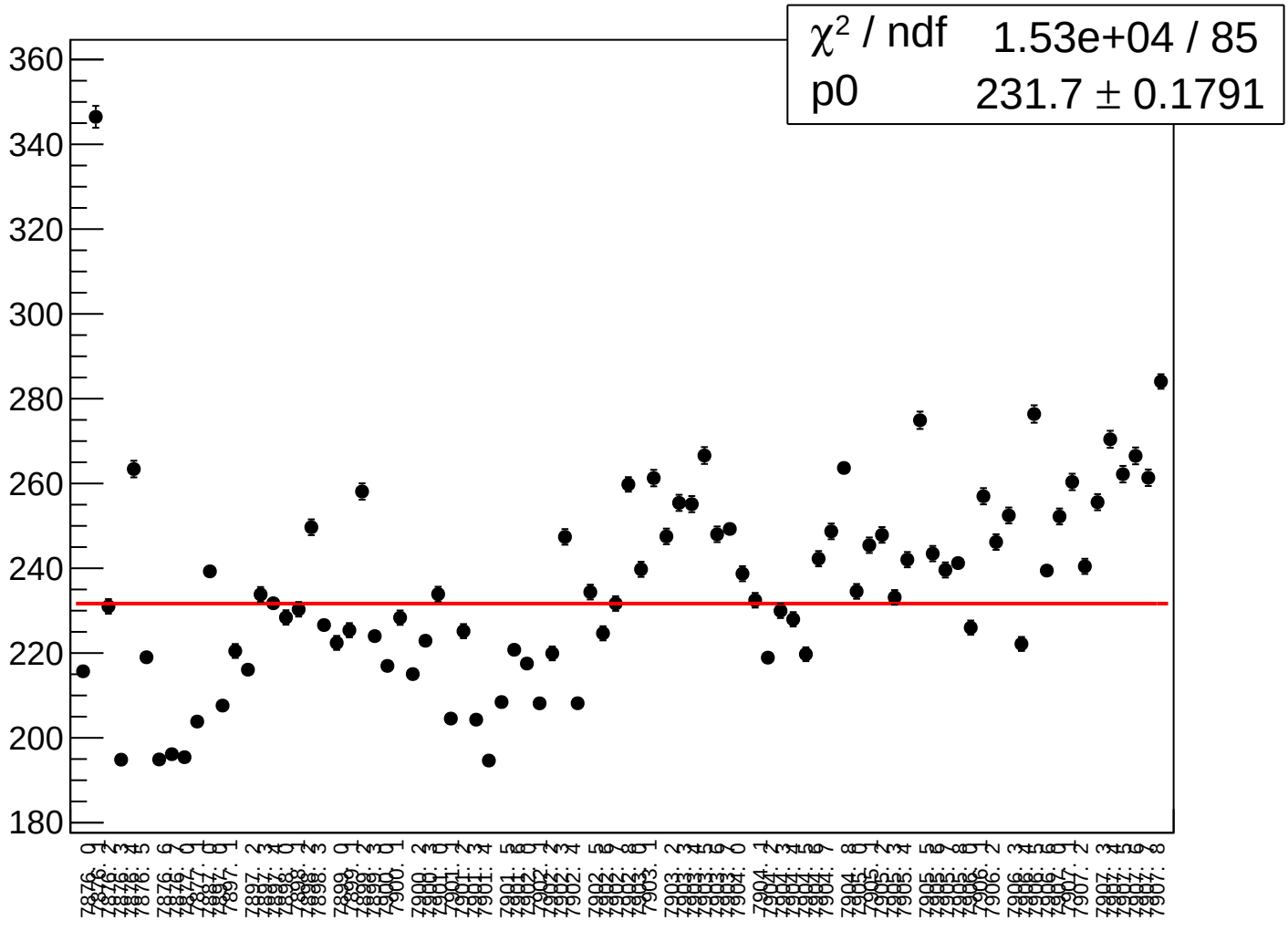

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.711e+04 / 85
p0 70.13 ± 0.05426
130
120
110
100
90
80
70
60
50

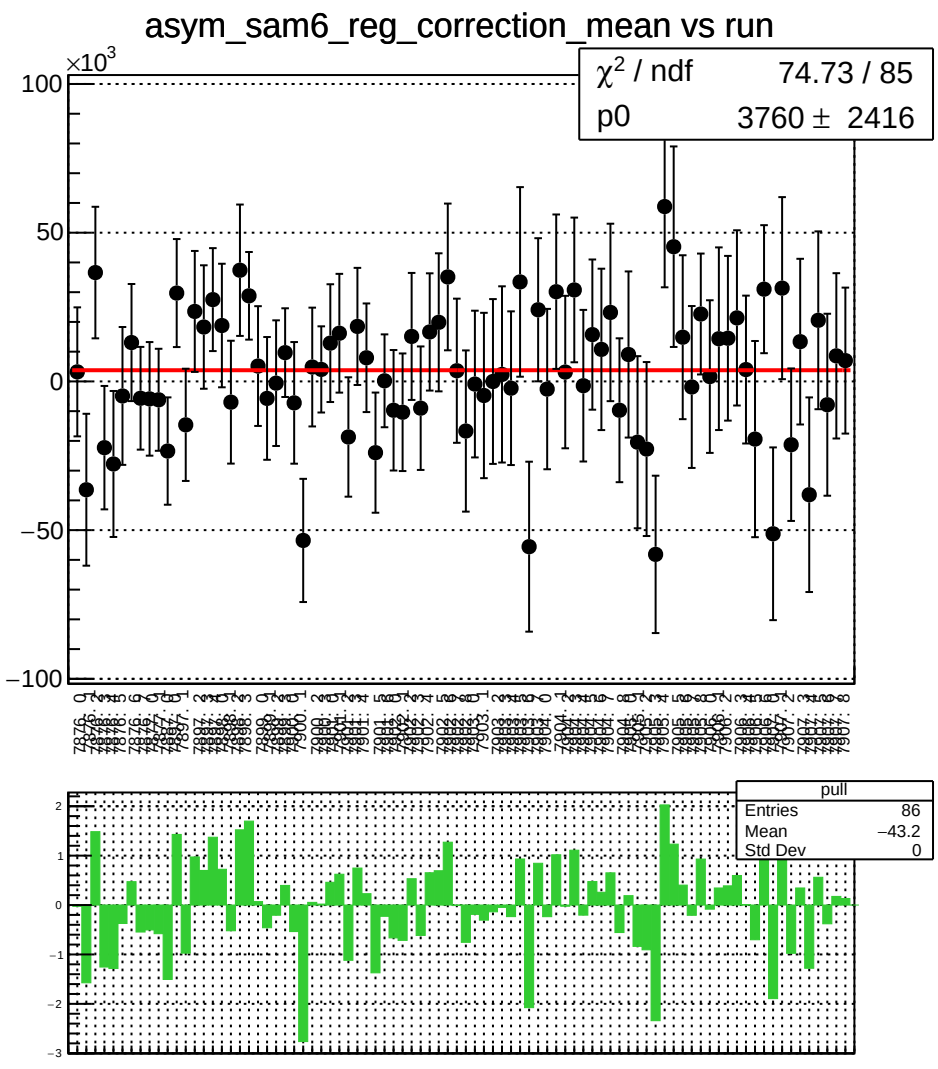

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.35 / 85
p0 2.515e−14 ± 4.981e−14
pull
Entries 86
Mean 39.34
Std Dev 0
pull1D
Entries 86
Mean 0.2199
Std Dev 1.024

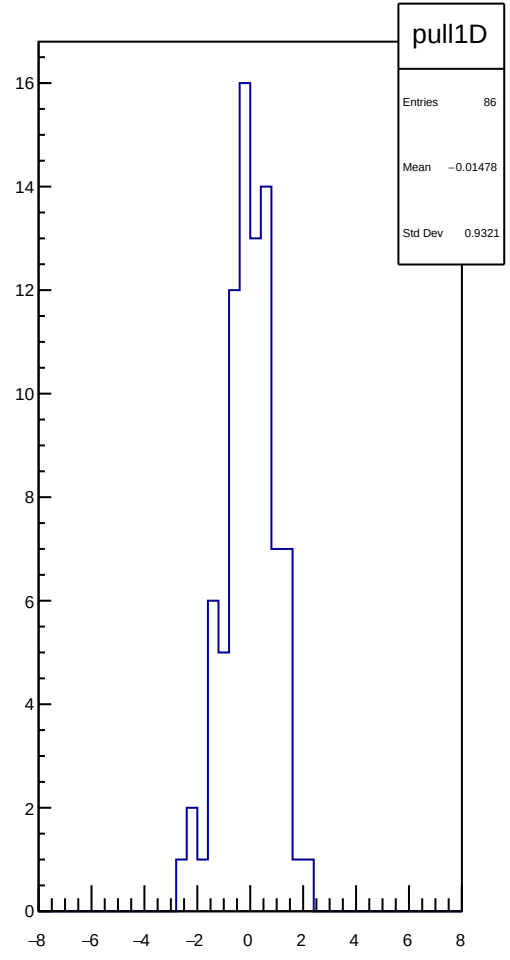

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.042e+06 / 85
p0 2.83e−11 ± 3.522e−14
0.6
0.5
0.4
0.3
0.2
0.1

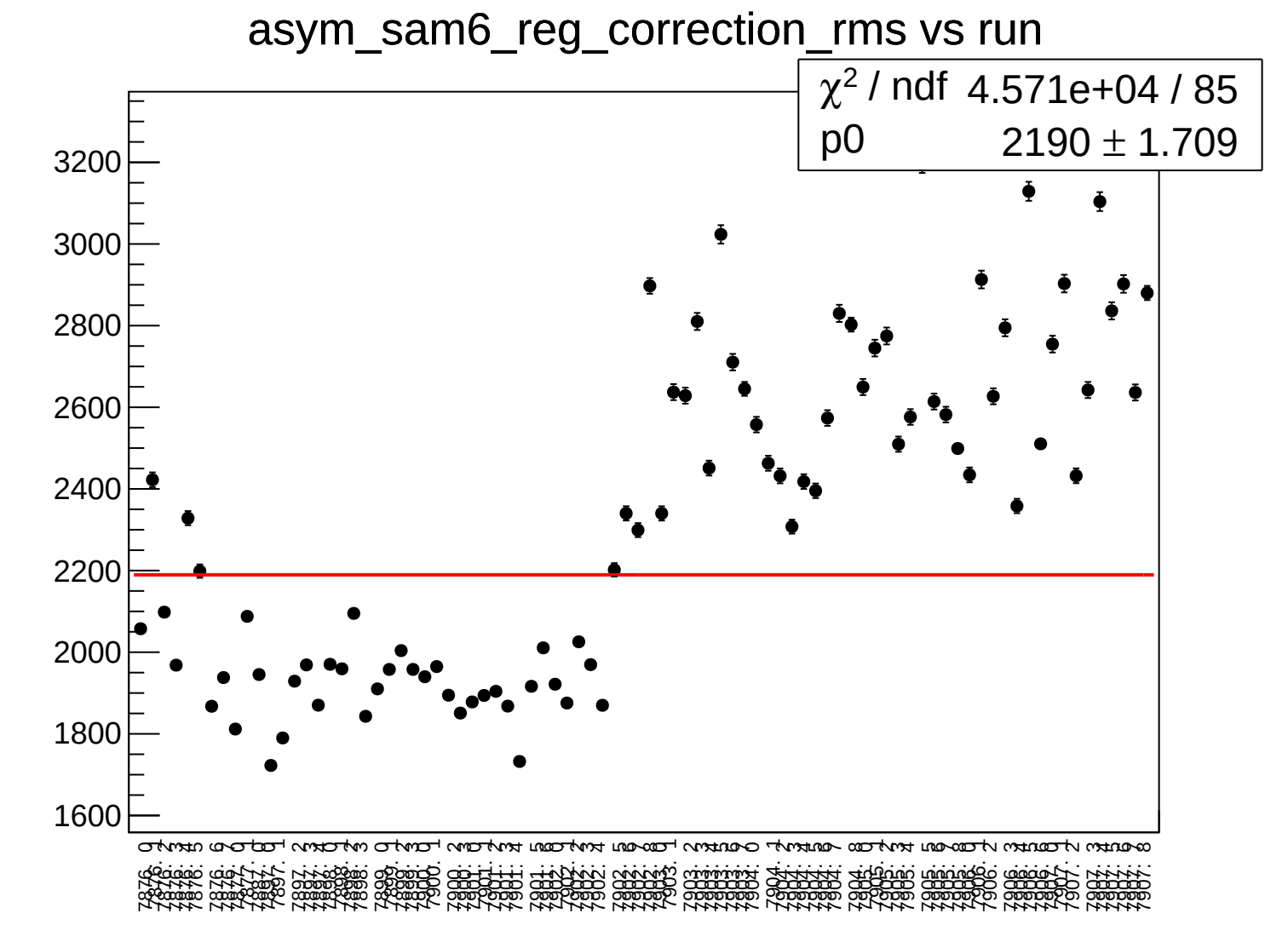

reg_asym_sam6_mean vs run
χ² / ndf 82.23 / 85
p0 −83.47 ± 253.3
pull
Entries 86
Mean −296.6
Std Dev 0

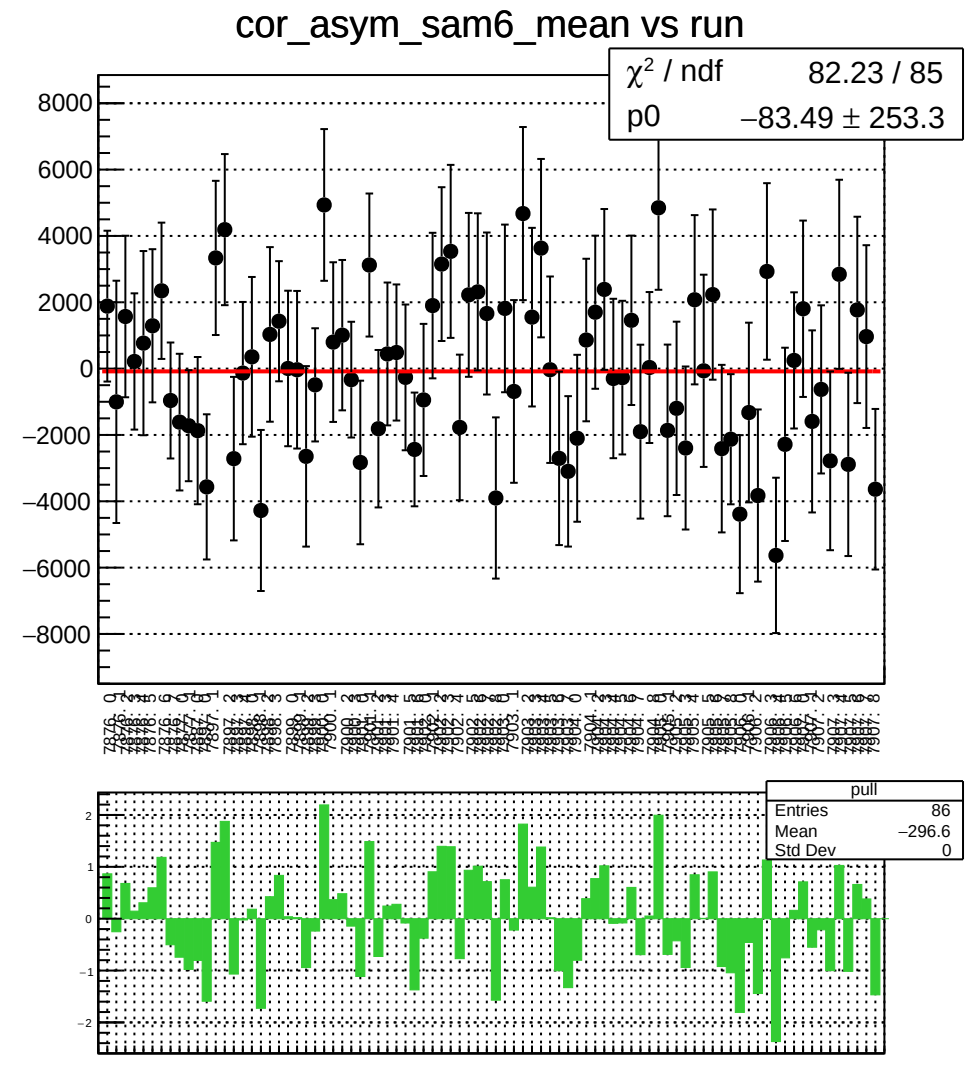

pull1D
Entries 86
Mean 0.01059
Std Dev 0.9778

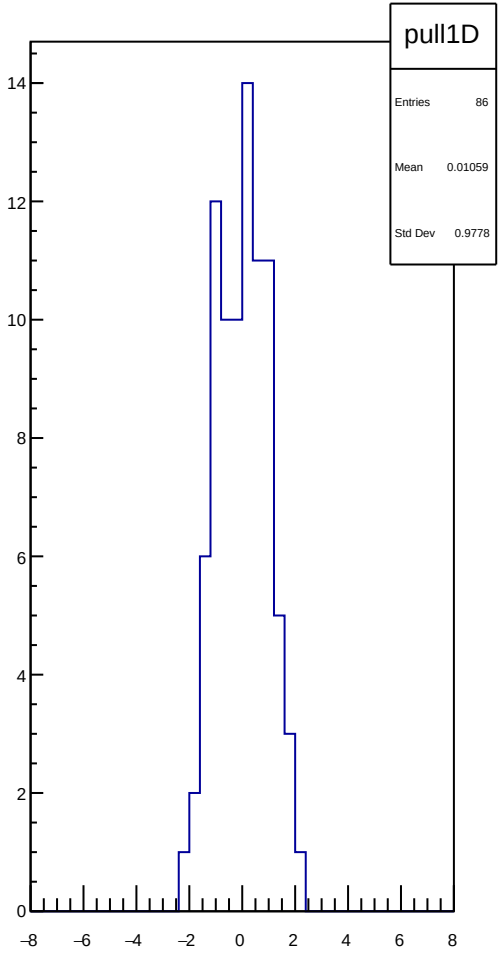

reg_asym_sam6_rms vs run
χ² / ndf 1.53e+04 / 85
p0 231.7 ± 0.1791
360
340
320
300
280
260
240
220
200
180

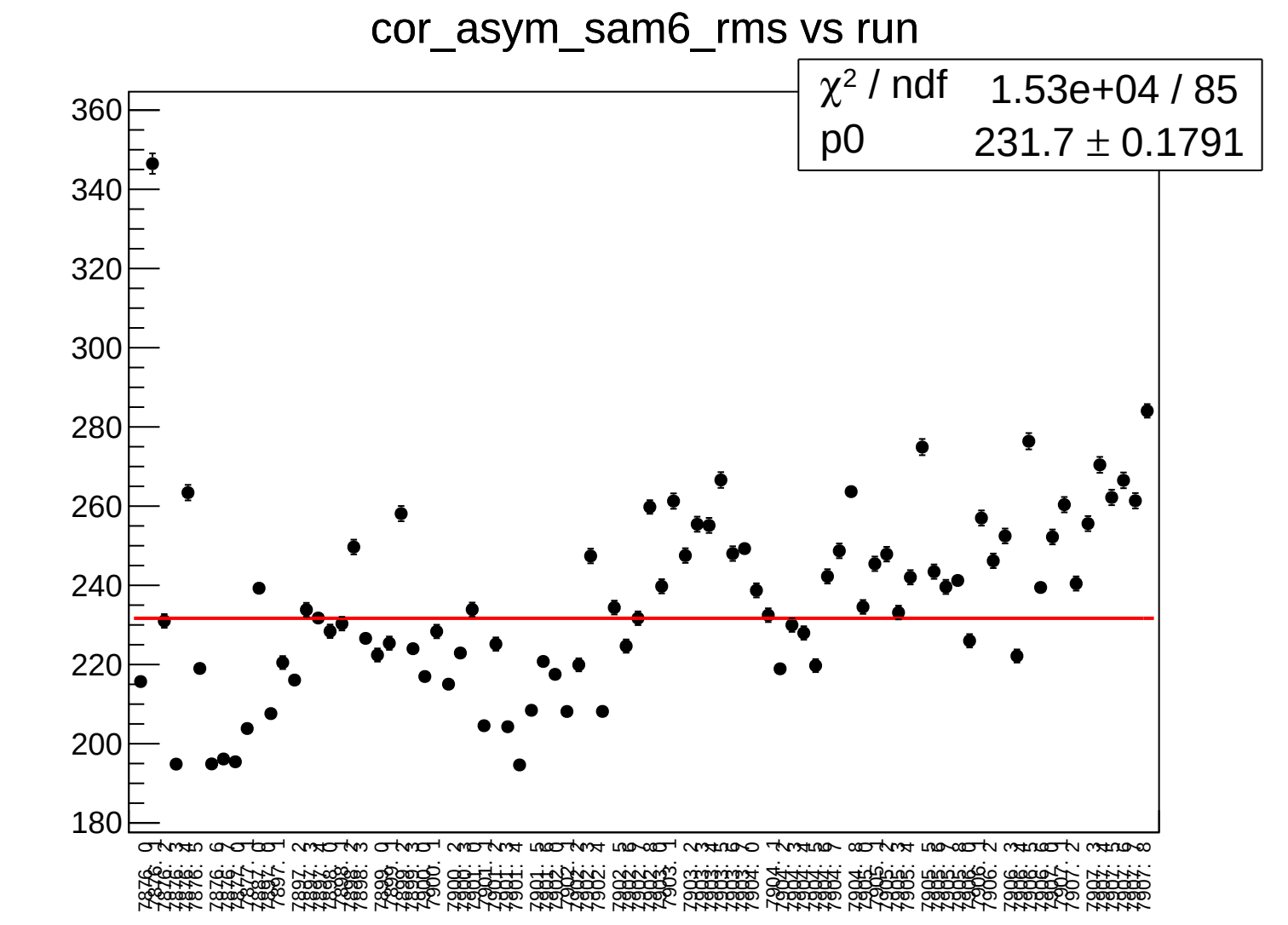

asym_sam6_reg_correction_mean vs run
×10^3
χ² / ndf 74.73 / 85
p0 3760 ± 2416
100
50
0
−50
−100
pull
Entries 86
Mean −43.2
Std Dev 0
2
1
0
−1
−2
−3

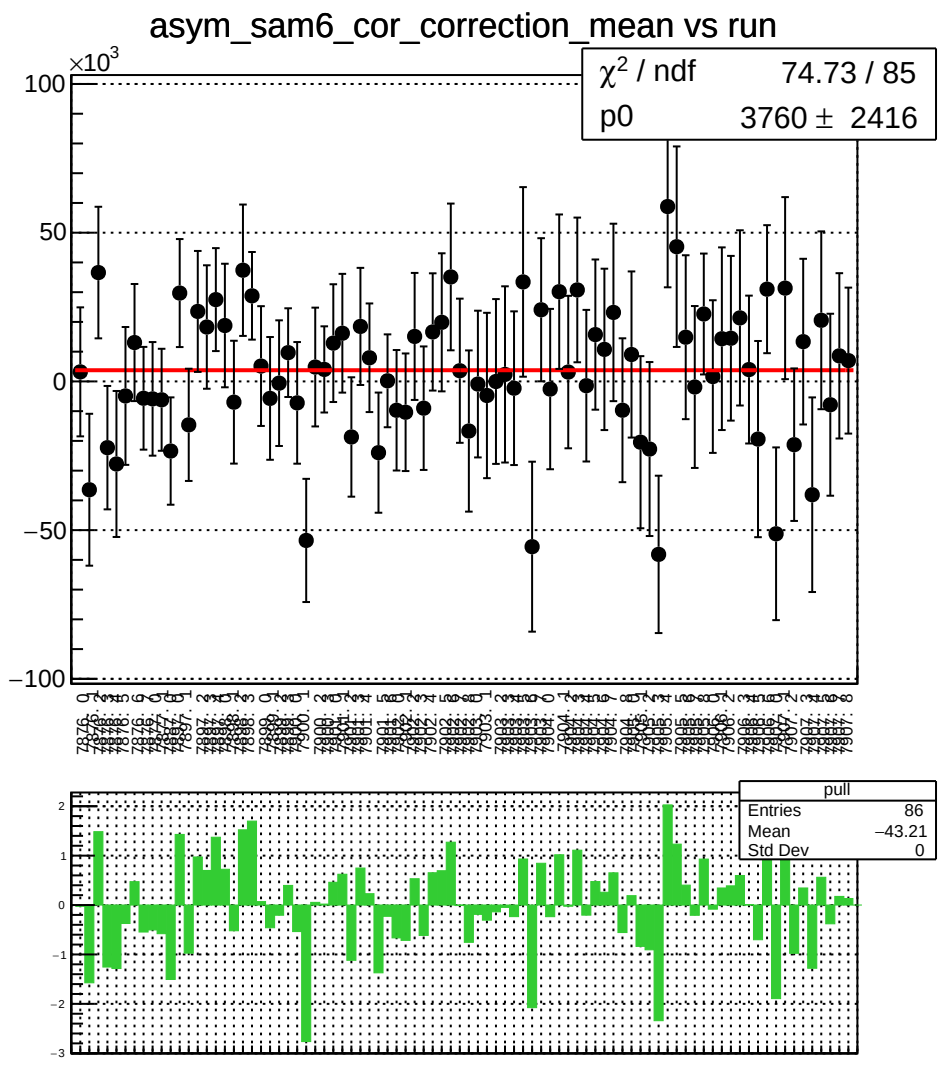

pull1D
Entries 86
Mean −0.01478
Std Dev 0.9321
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

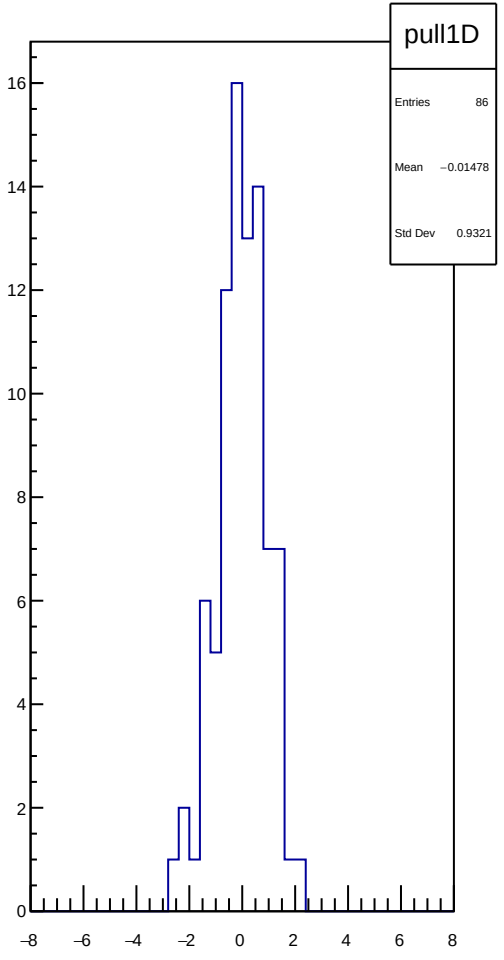

asym_sam6_reg_correction_rms vs run
χ² / ndf 4.571e+04 / 85
p0 2190 ± 1.709
3200
3000
2800
2600
2400
2200
2000
1800
1600

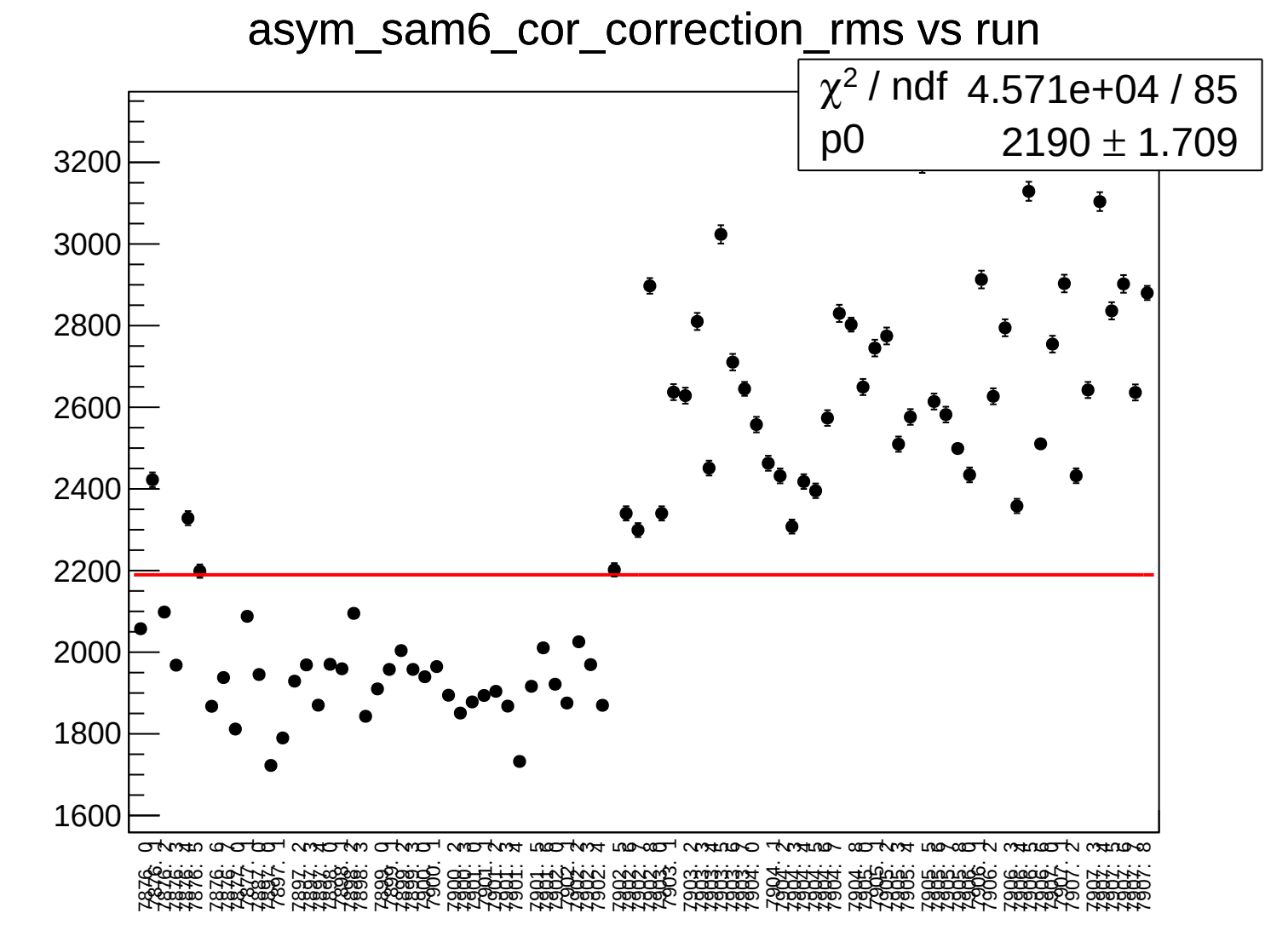

cor_asym_sam6_mean vs run
χ² / ndf 82.23 / 85
p0 −83.49 ± 253.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −296.6
Std Dev 0
2
1
0
−1
−2

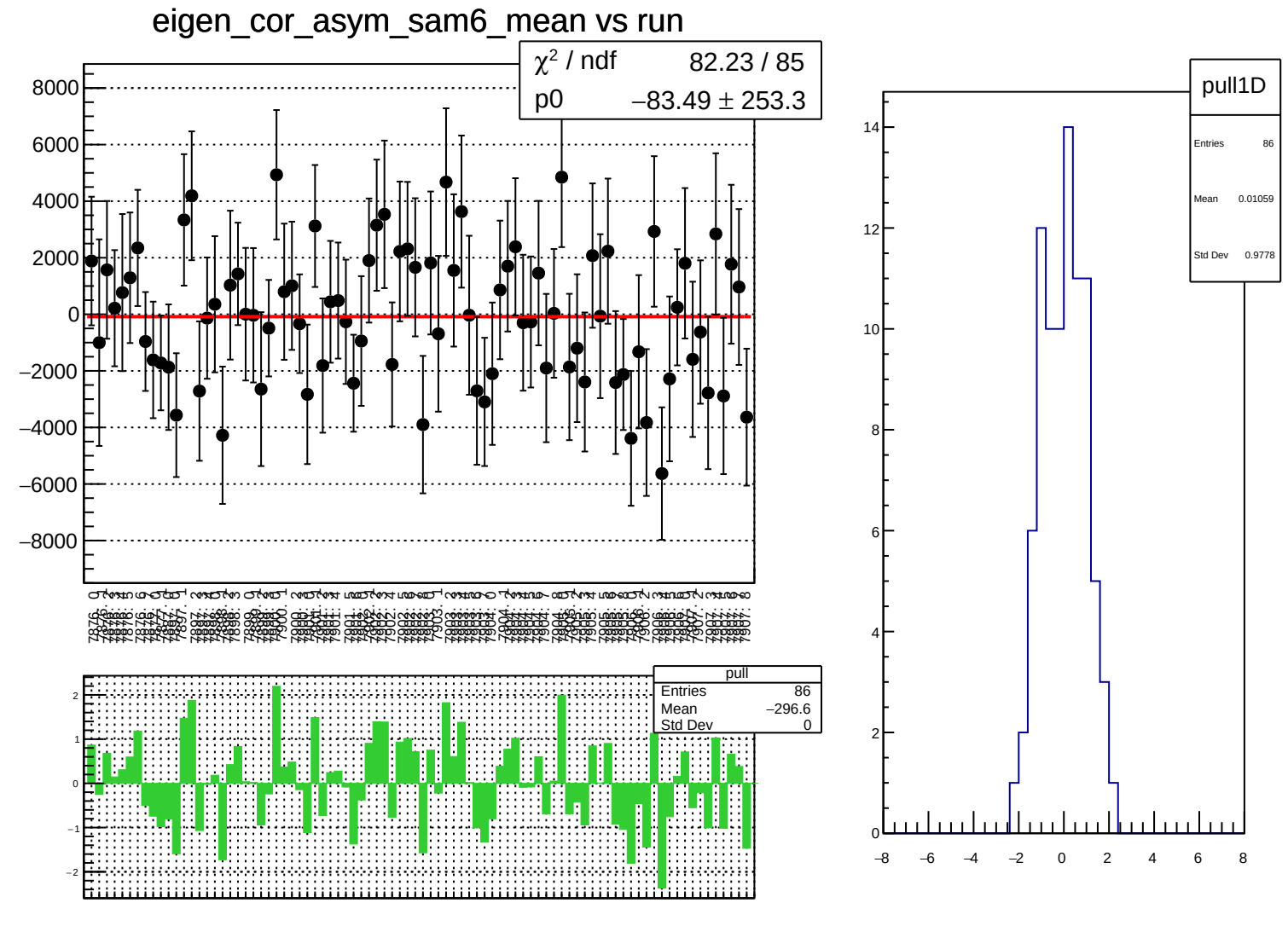

pull1D
Entries 86
Mean 0.01059
Std Dev 0.9778
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

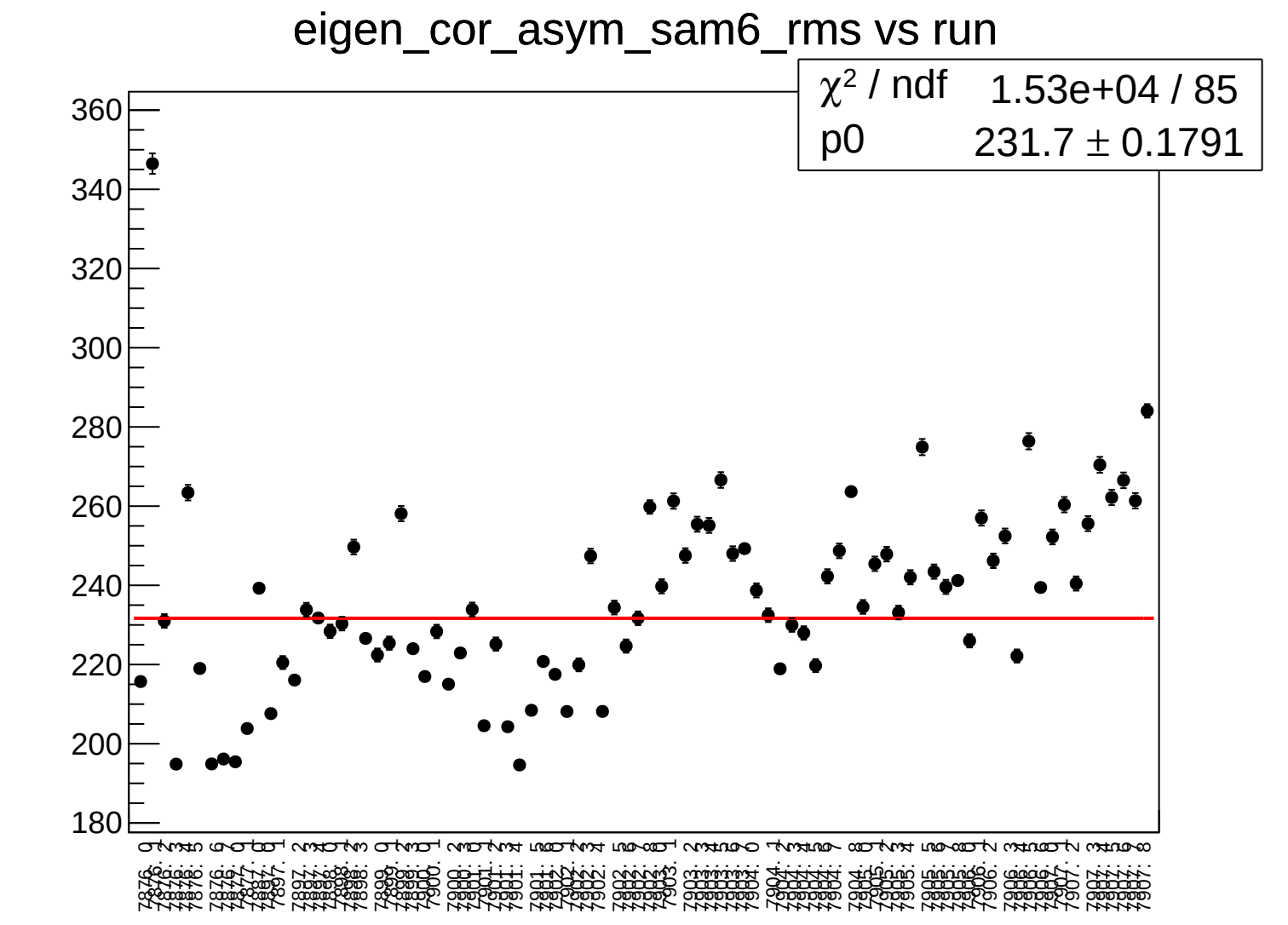

cor_asym_sam6_rms vs run
χ² / ndf 1.53e+04 / 85
p0 231.7 ± 0.1791
360
340
320
300
280
260
240
220
200
180

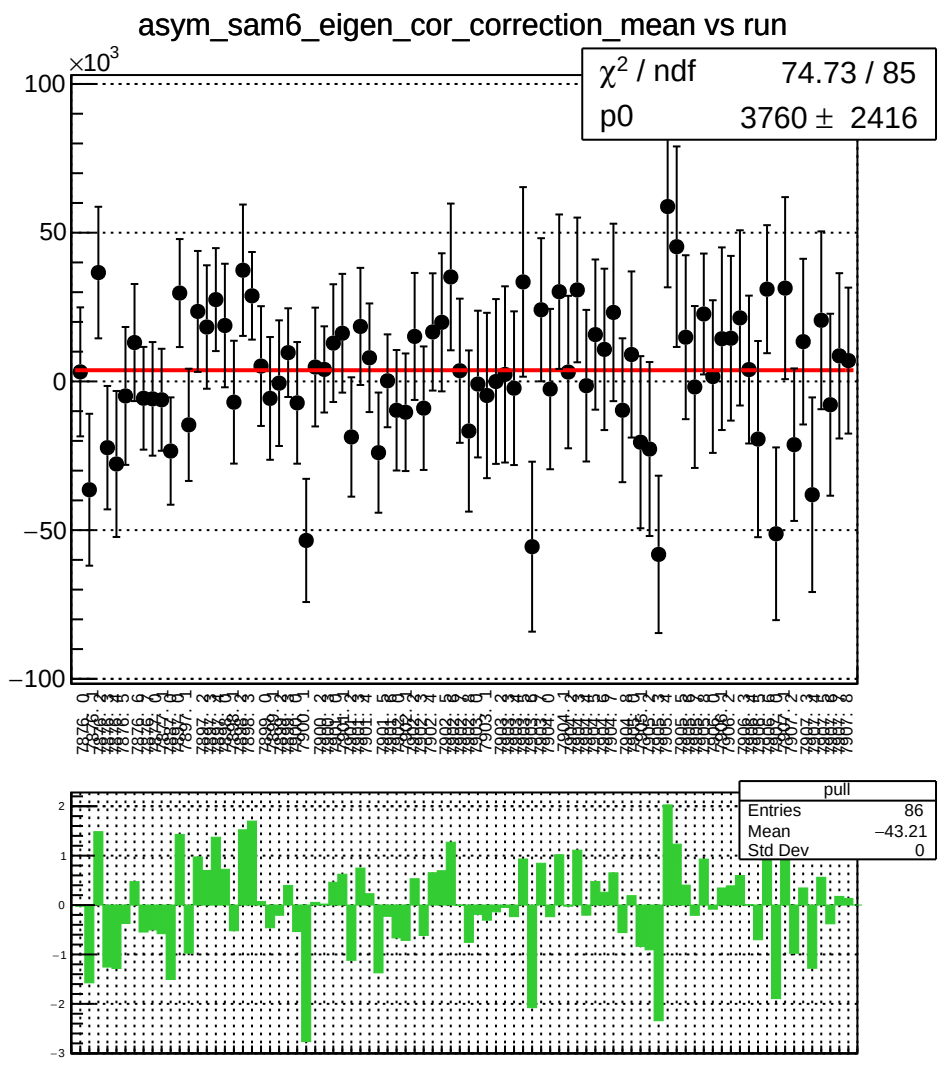

asym_sam6_cor_correction_mean vs run
×10^3
χ² / ndf 74.73 / 85
p0 3760 ± 2416
100
50
0
−50
−100
pull
Entries 86
Mean −43.21
Std Dev 0
2
1
0
−1
−2
−3

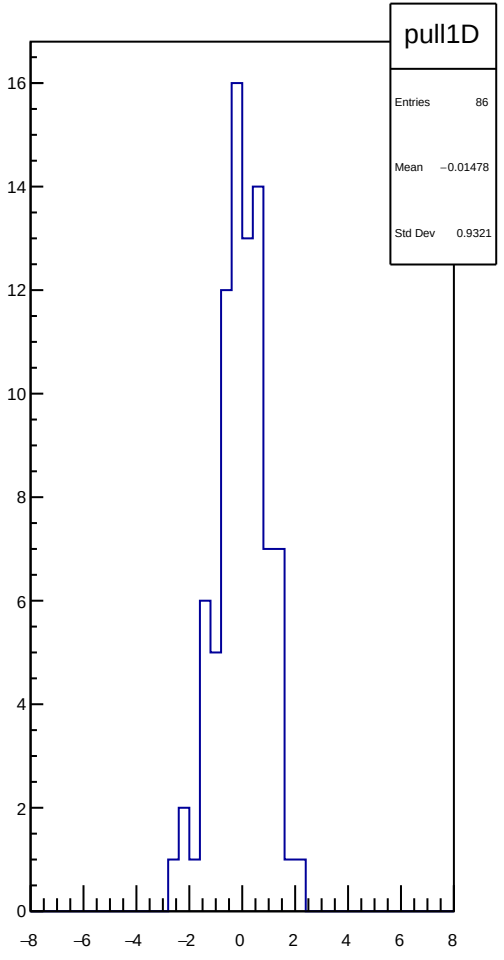

pull1D
Entries 86
Mean −0.01478
Std Dev 0.9321
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

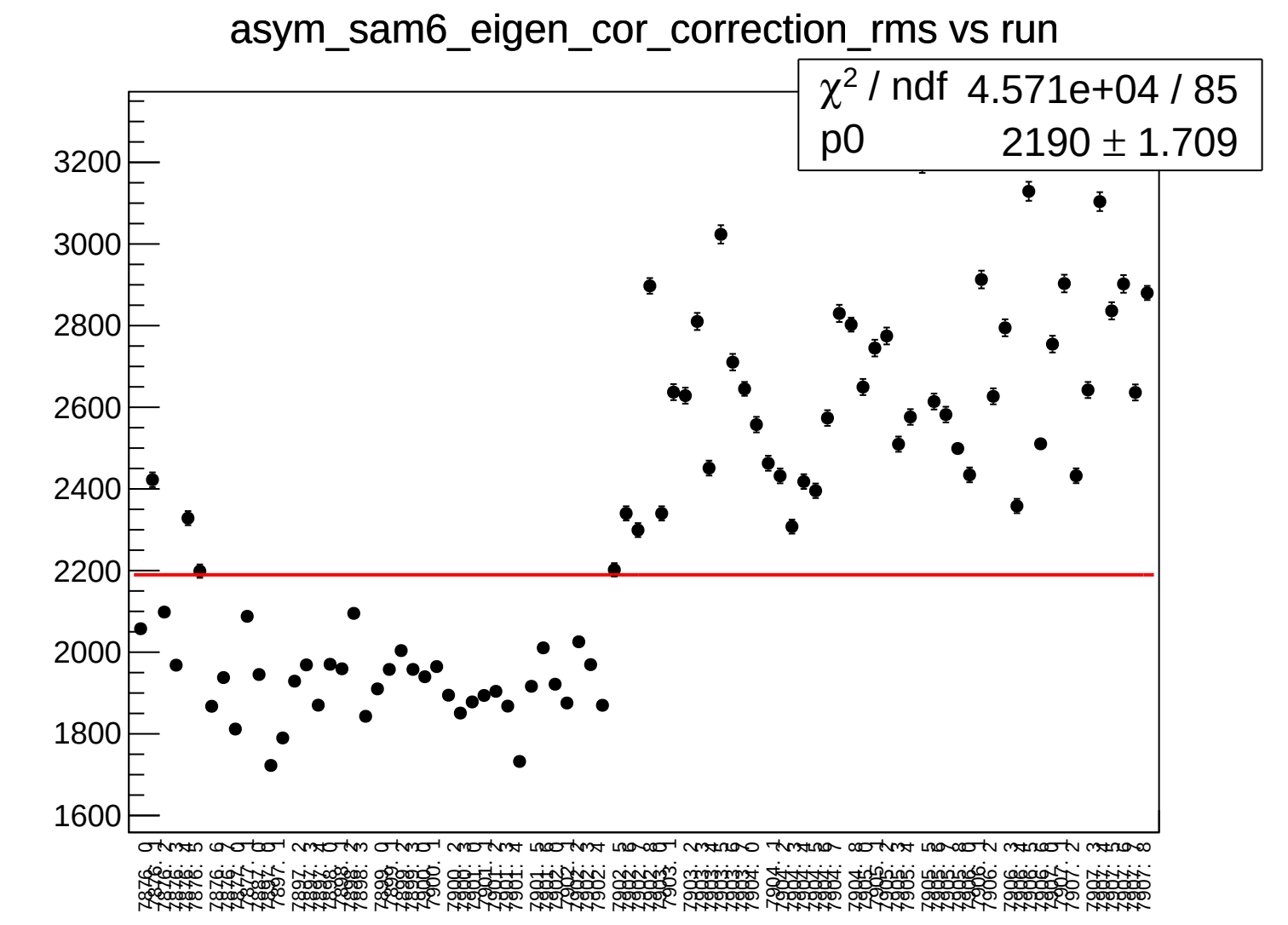

asym_sam6_cor_correction_rms vs run
χ² / ndf 4.571e+04 / 85
p0 2190 ± 1.709
3200
3000
2800
2600
2400
2200
2000
1800
1600

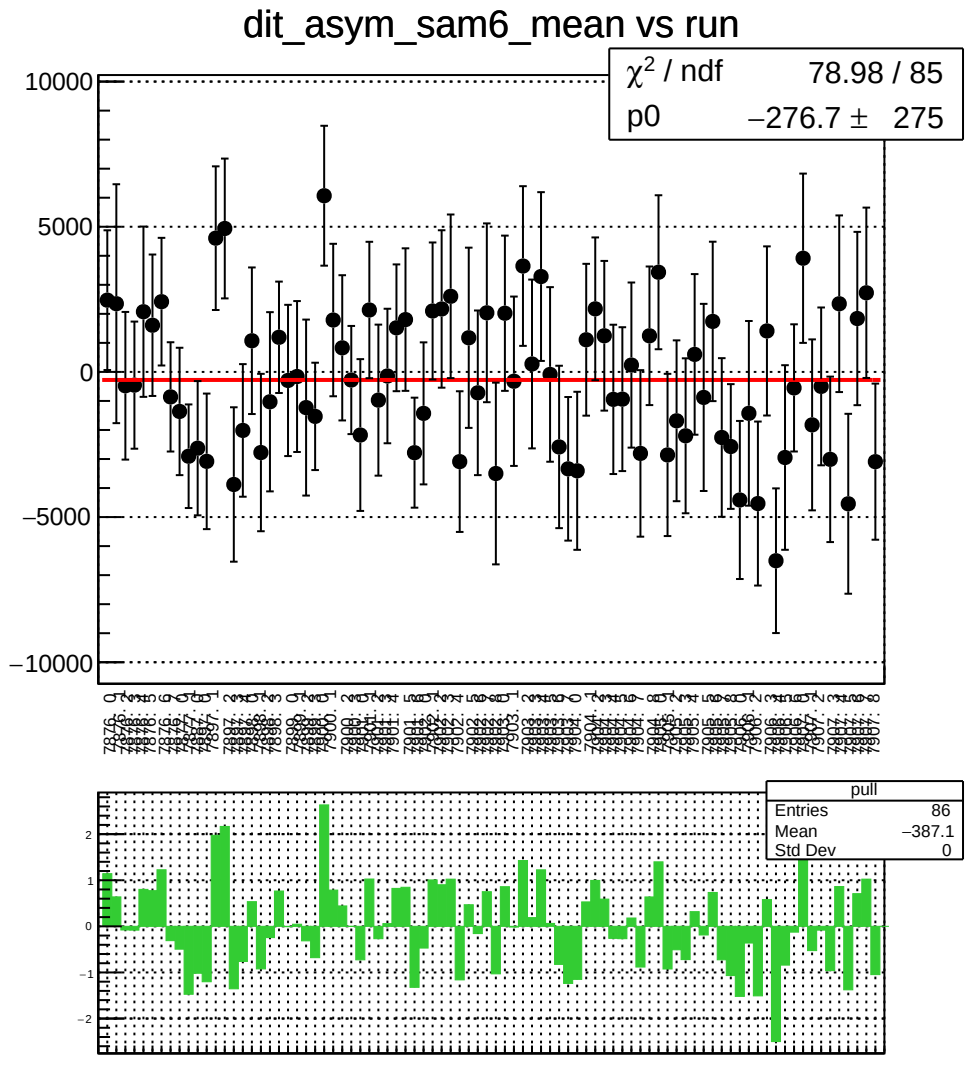

eigen_cor_asym_sam6_mean vs run
χ² / ndf 82.23 / 85
p0 −83.49 ± 253.3
pull
Entries 86
Mean −296.6
Std Dev 0
pull1D
Entries 86
Mean 0.01059
Std Dev 0.9778

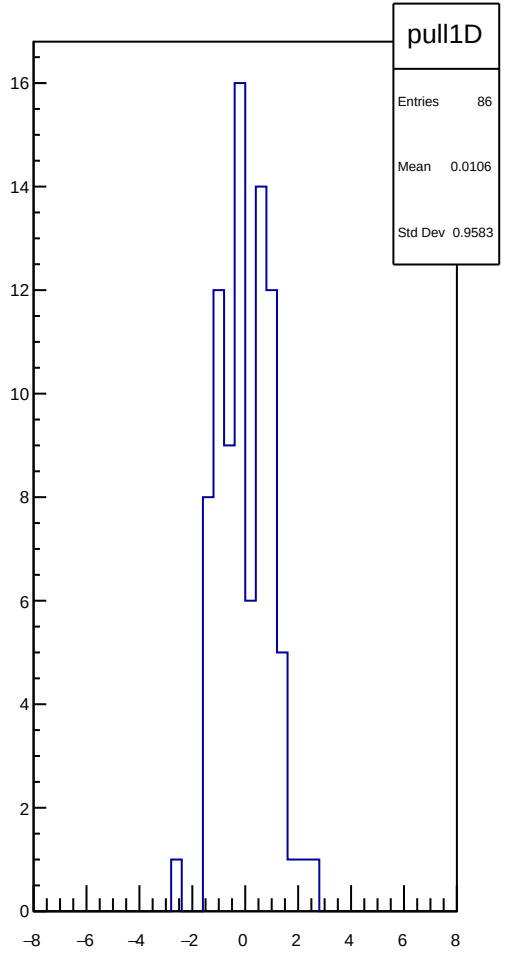

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.53e+04 / 85
p0 231.7 ± 0.1791
360
340
320
300
280
260
240
220
200
180

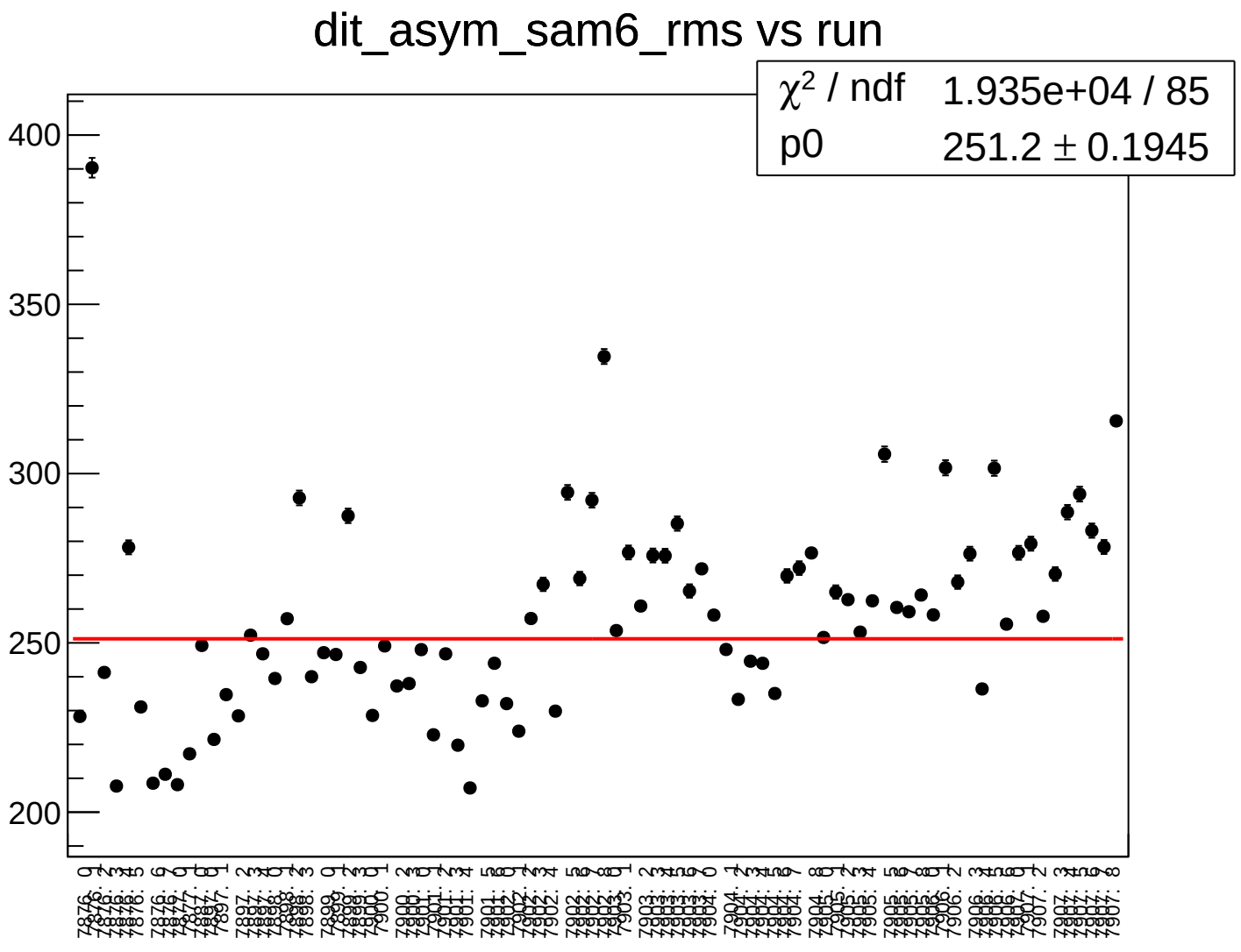

asym_sam6_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.73 / 85
p0 3760 ± 2416
100
50
0
−50
−100
pull
Entries 86
Mean −43.21
Std Dev 0
2
1
0
−1
−2
−3

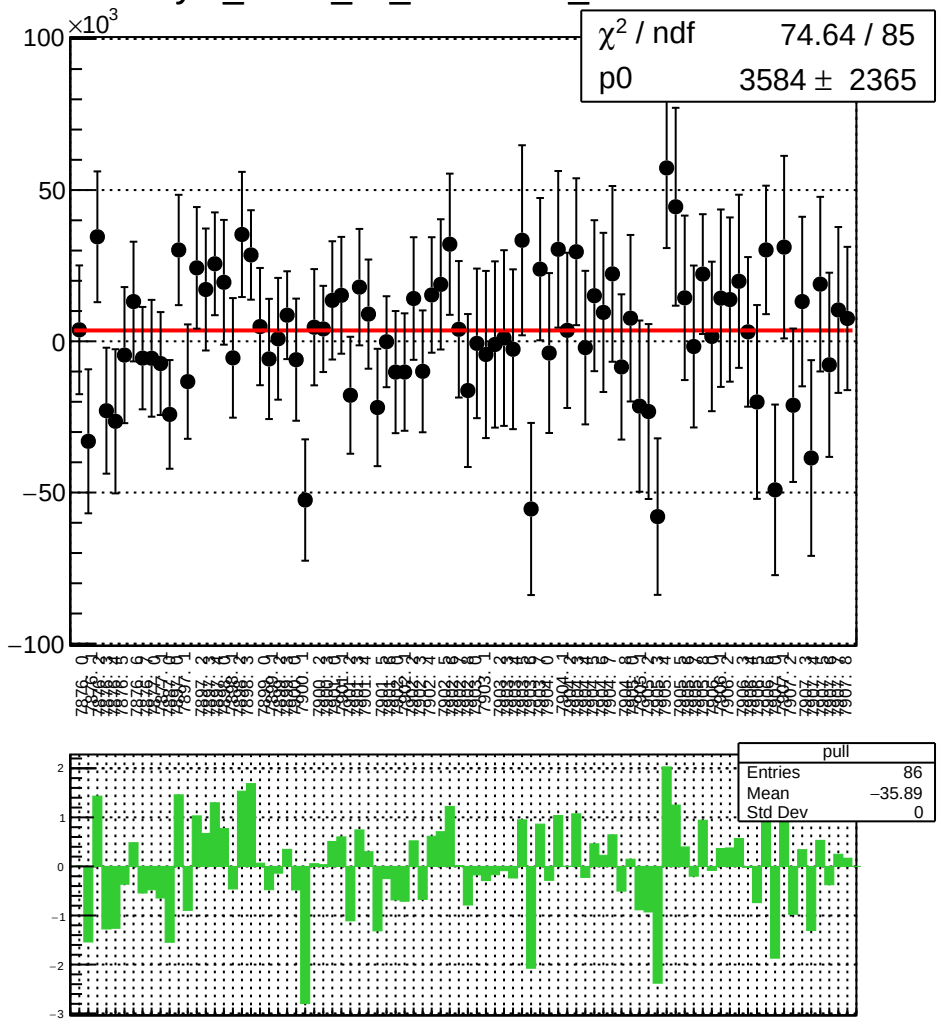

pull1D
Entries 86
Mean −0.01478
Std Dev 0.9321
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

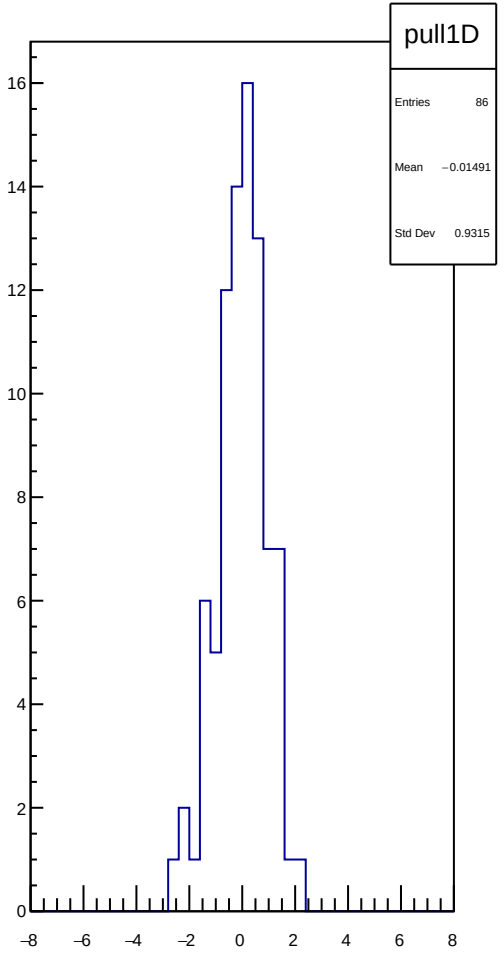

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 4.571e+04 / 85
p0 2190 ± 1.709
3200
3000
2800
2600
2400
2200
2000
1800
1600

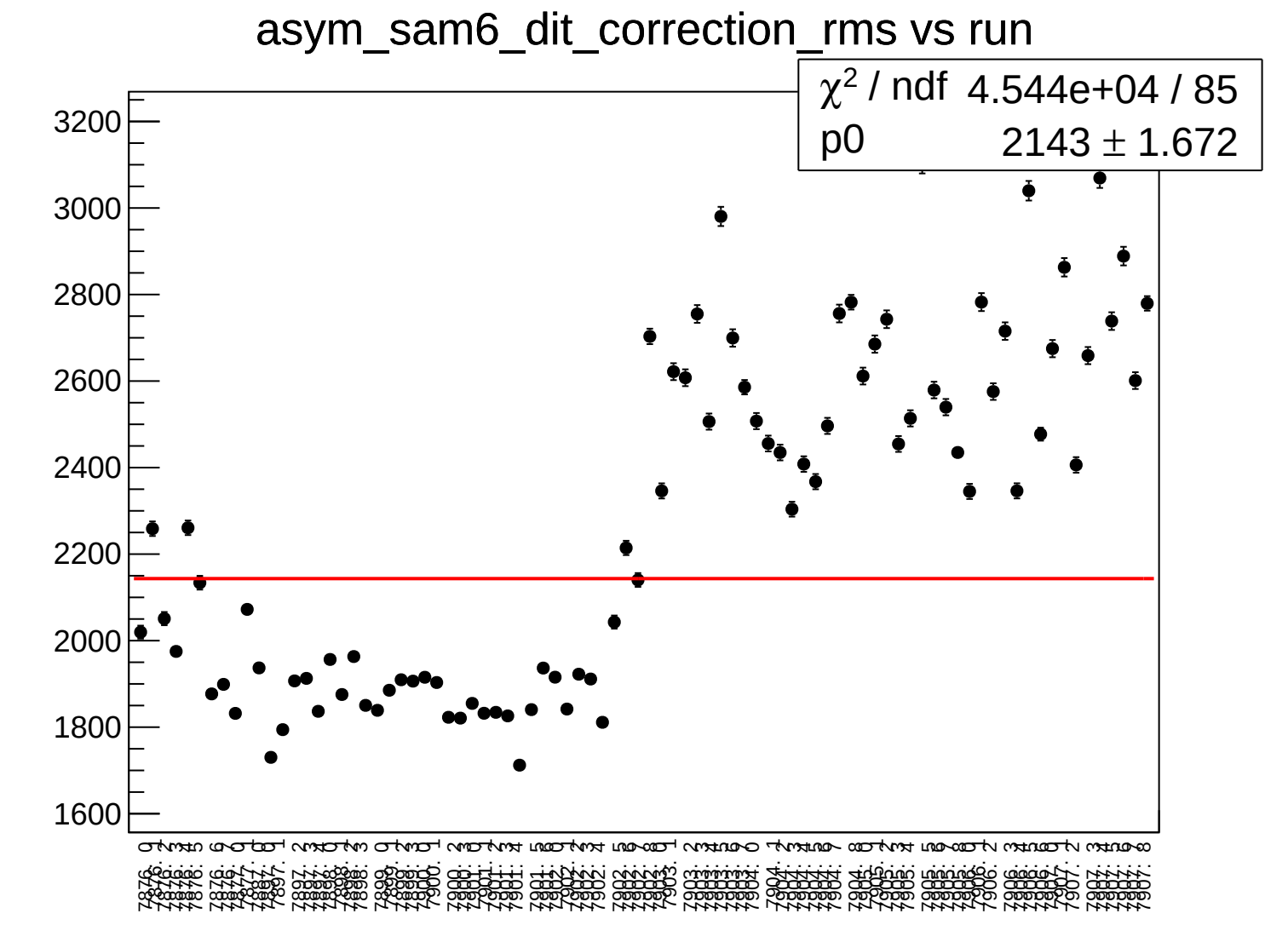

dit_asym_sam6_mean vs run
χ² / ndf 78.98 / 85
p0 −276.7 ± 275
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −387.1
Std Dev 0
2
1
0
−1
−2

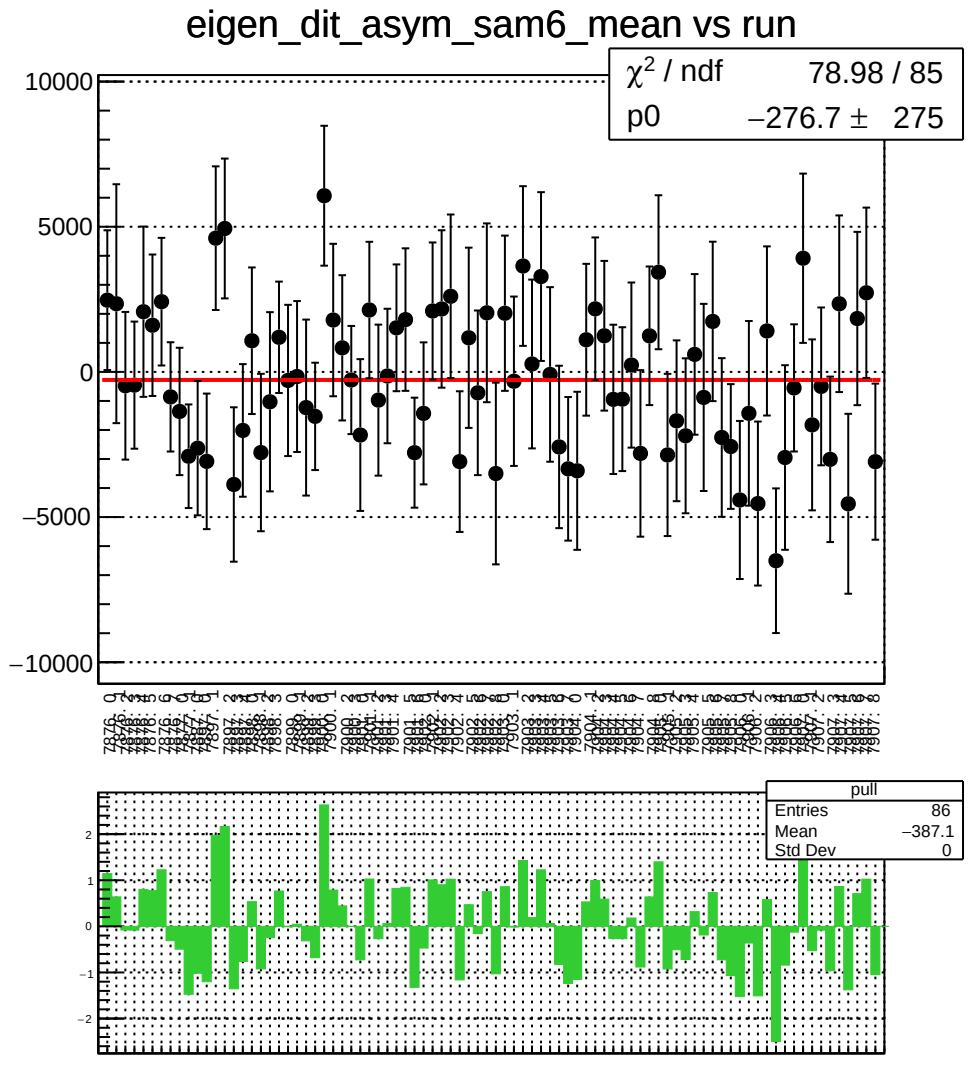

pull1D
Entries 86
Mean 0.0106
Std Dev 0.9583
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

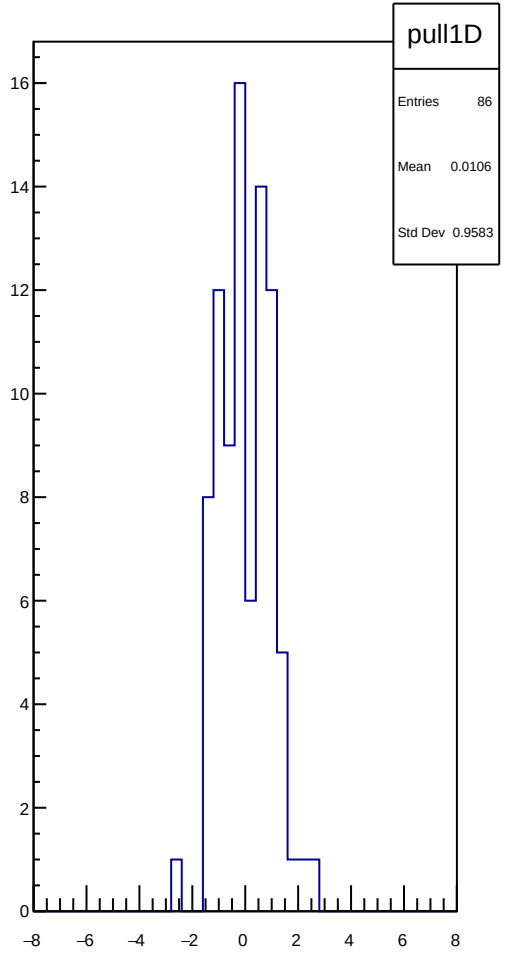

dit_asym_sam6_rms vs run
χ² / ndf 1.935e+04 / 85
p0 251.2 ± 0.1945
400
350
300
250
200

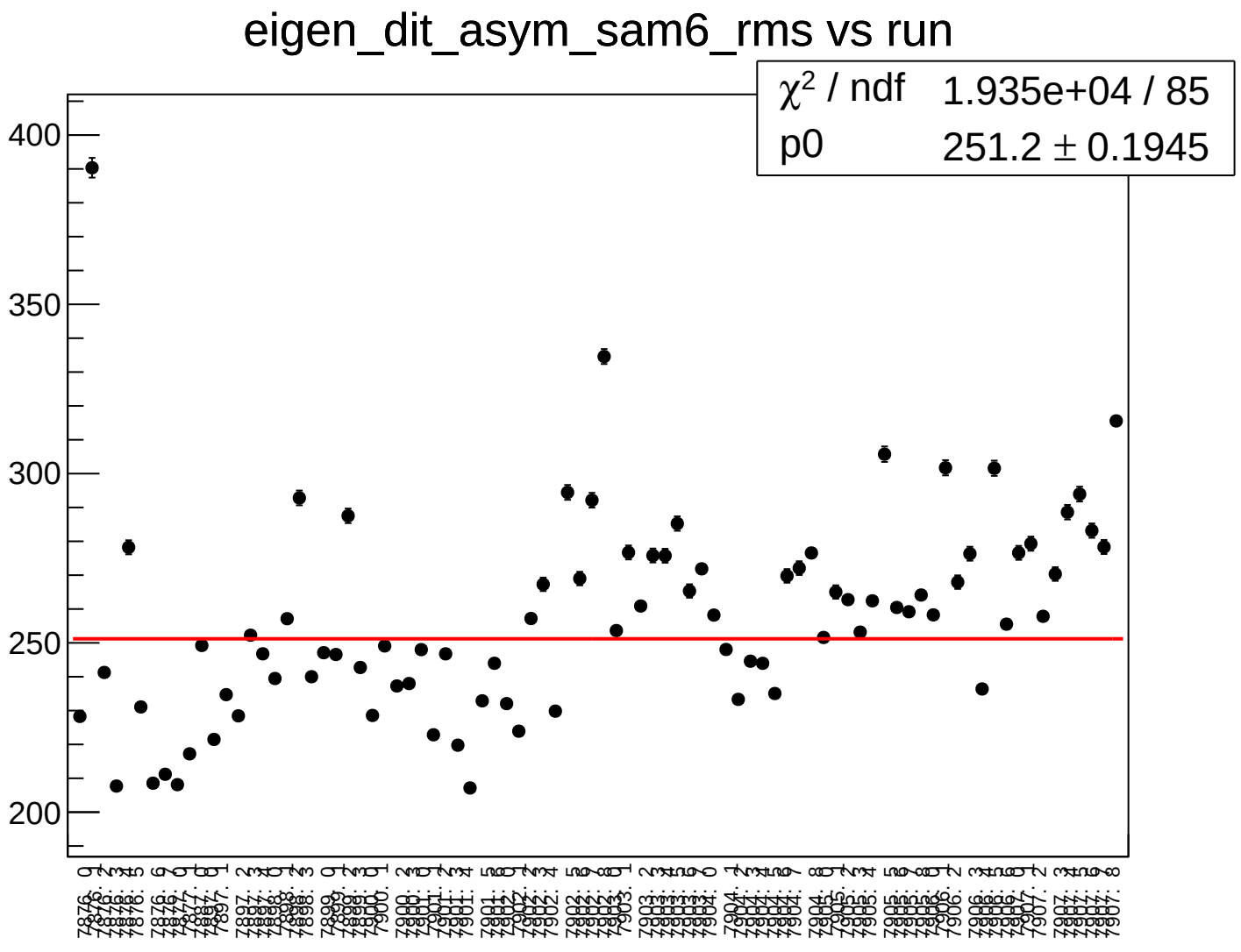

asym_sam6_dit_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 74.64 / 85
p0 3584 ± 2365
pull
Entries 86
Mean −35.89
Std Dev 0
2
1
0
−1
−2
−3

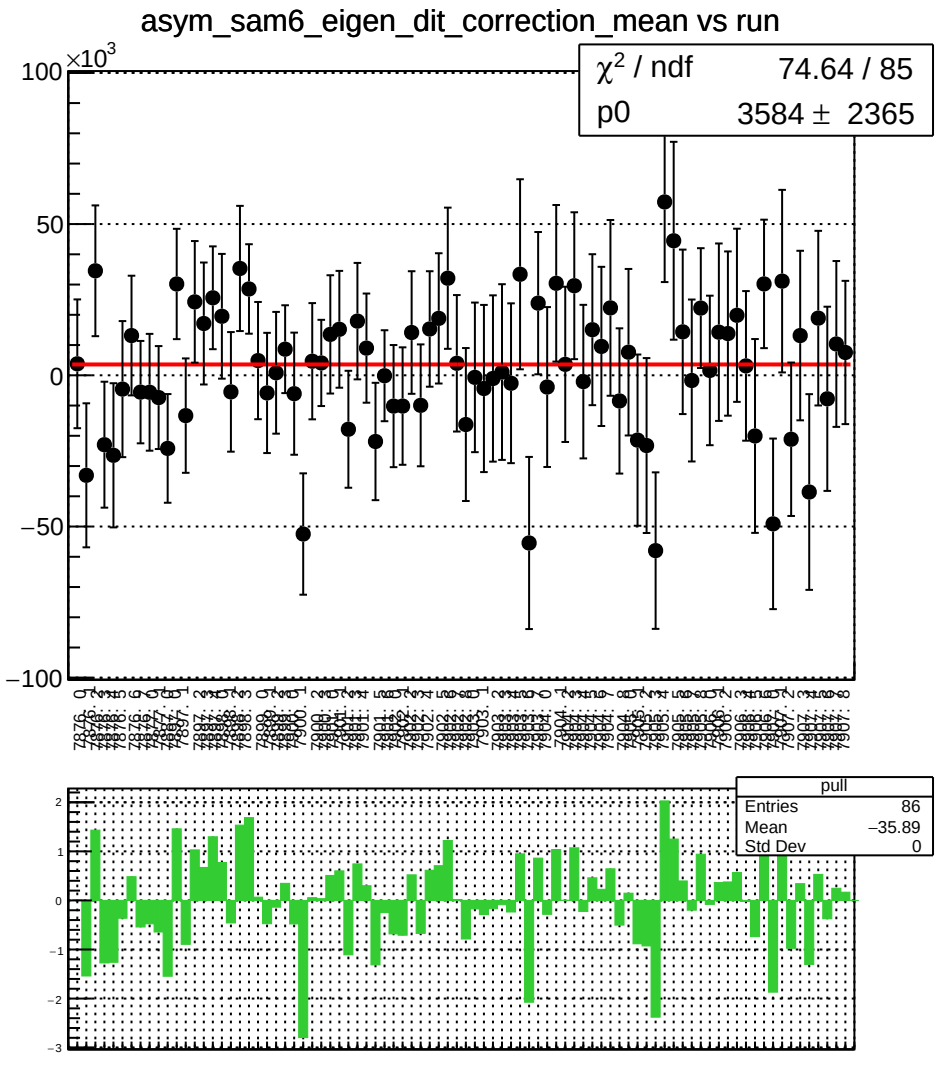

pull1D
Entries 86
Mean −0.01491
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

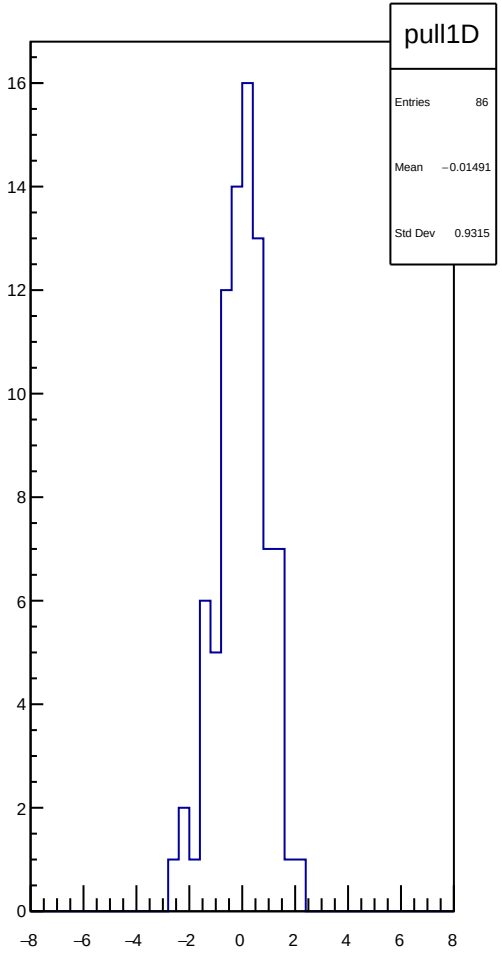

asym_sam6_dit_correction_rms vs run
χ² / ndf 4.544e+04 / 85
p0 2143 ± 1.672
3200
3000
2800
2600
2400
2200
2000
1800
1600

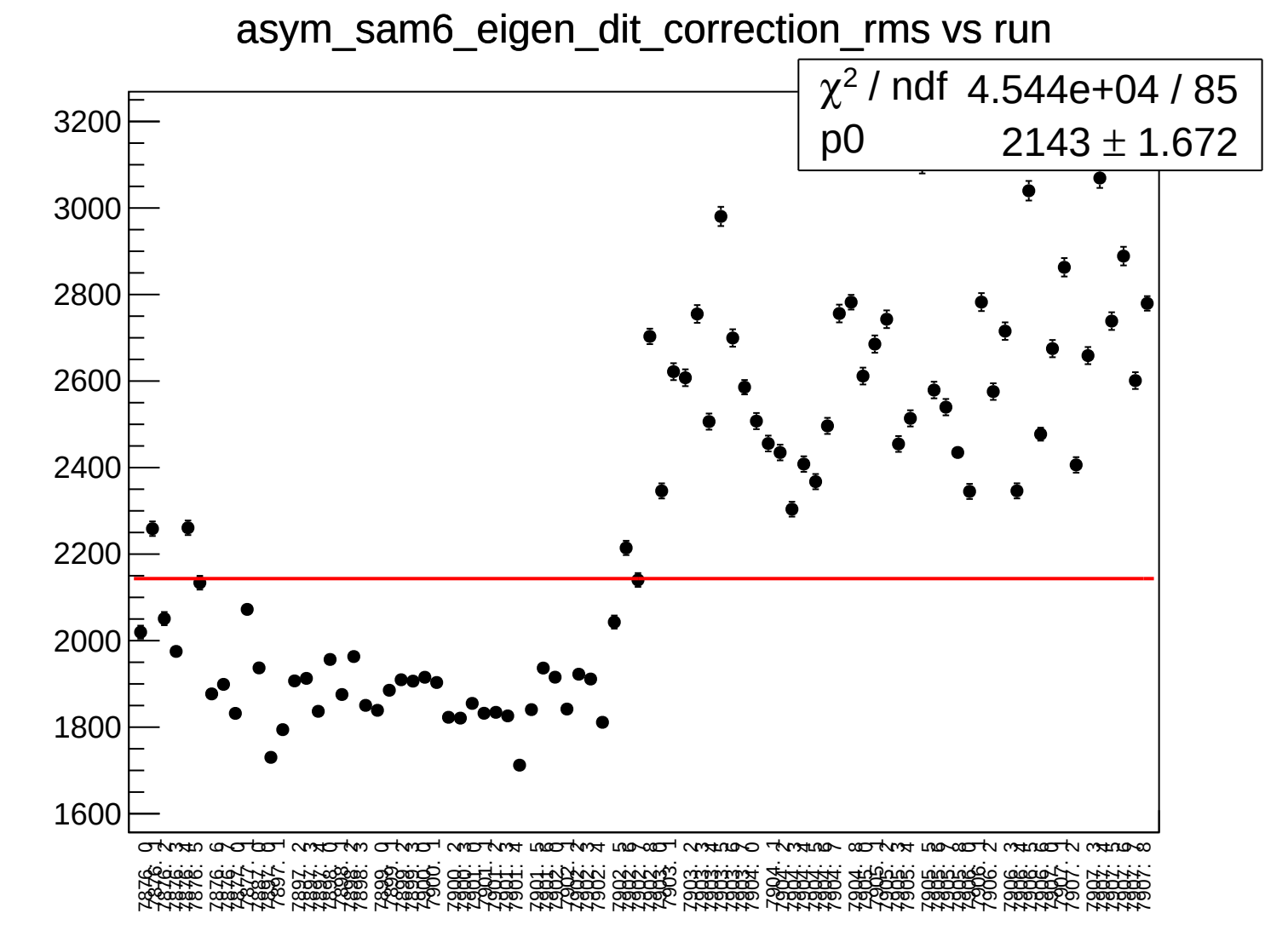

eigen_dit_asym_sam6_mean vs run
χ² / ndf 78.98 / 85
p0 −276.7 ± 275
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −387.1
Std Dev 0
2
1
0
−1
−2

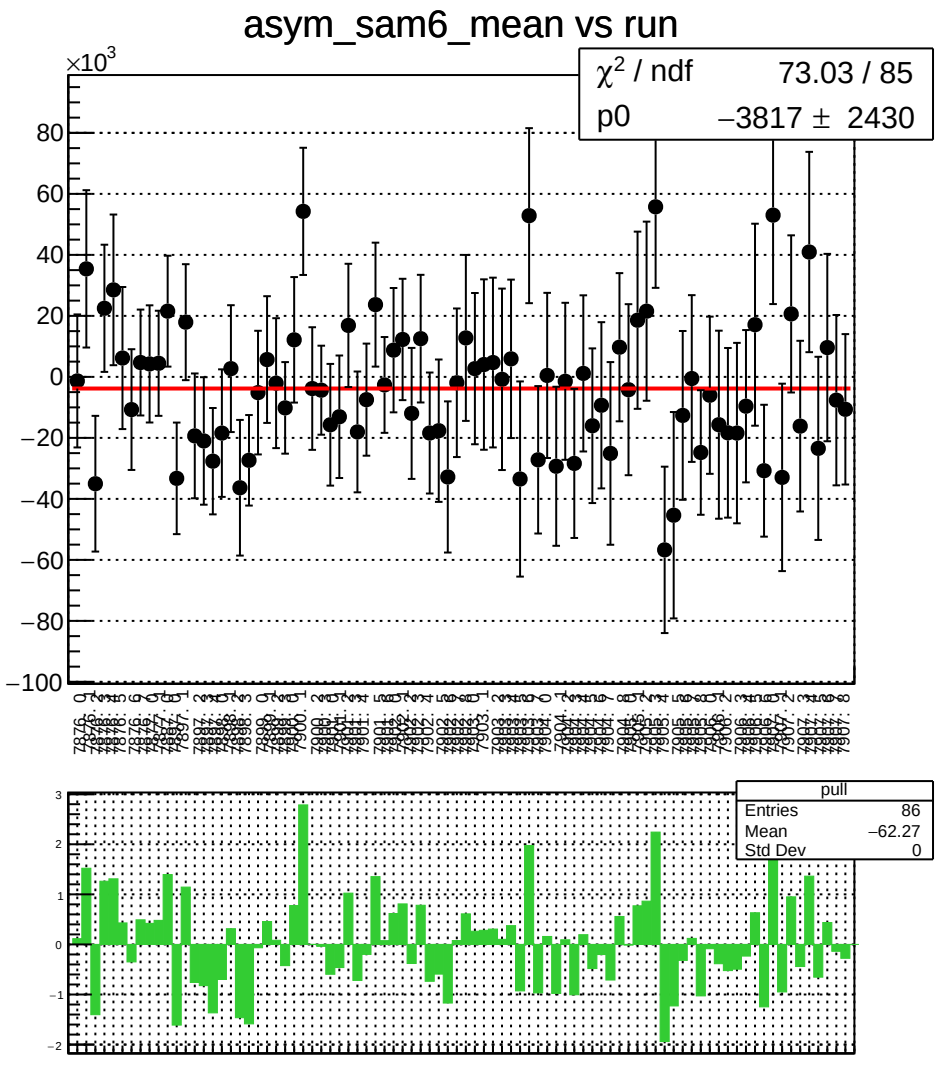

pull1D
Entries 86
Mean 0.0106
Std Dev 0.9583
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

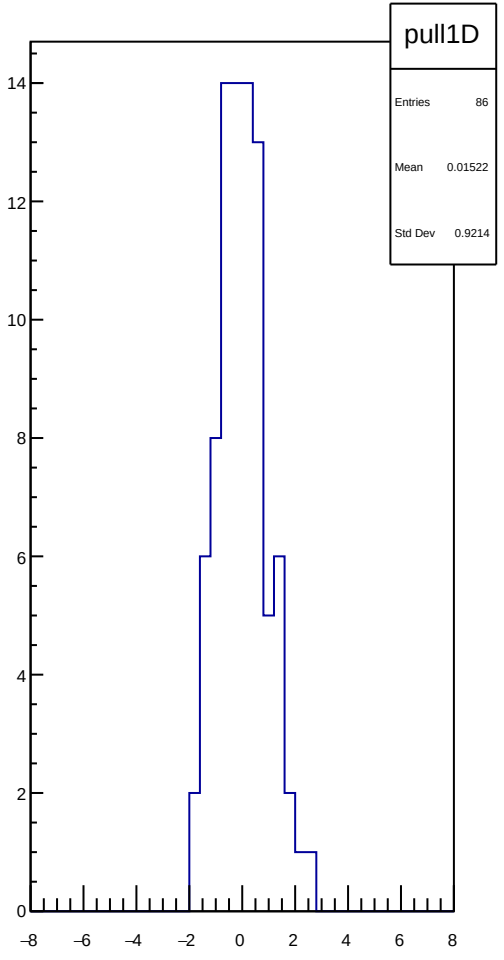

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1.935e+04 / 85
p0 251.2 ± 0.1945
400
350
300
250
200

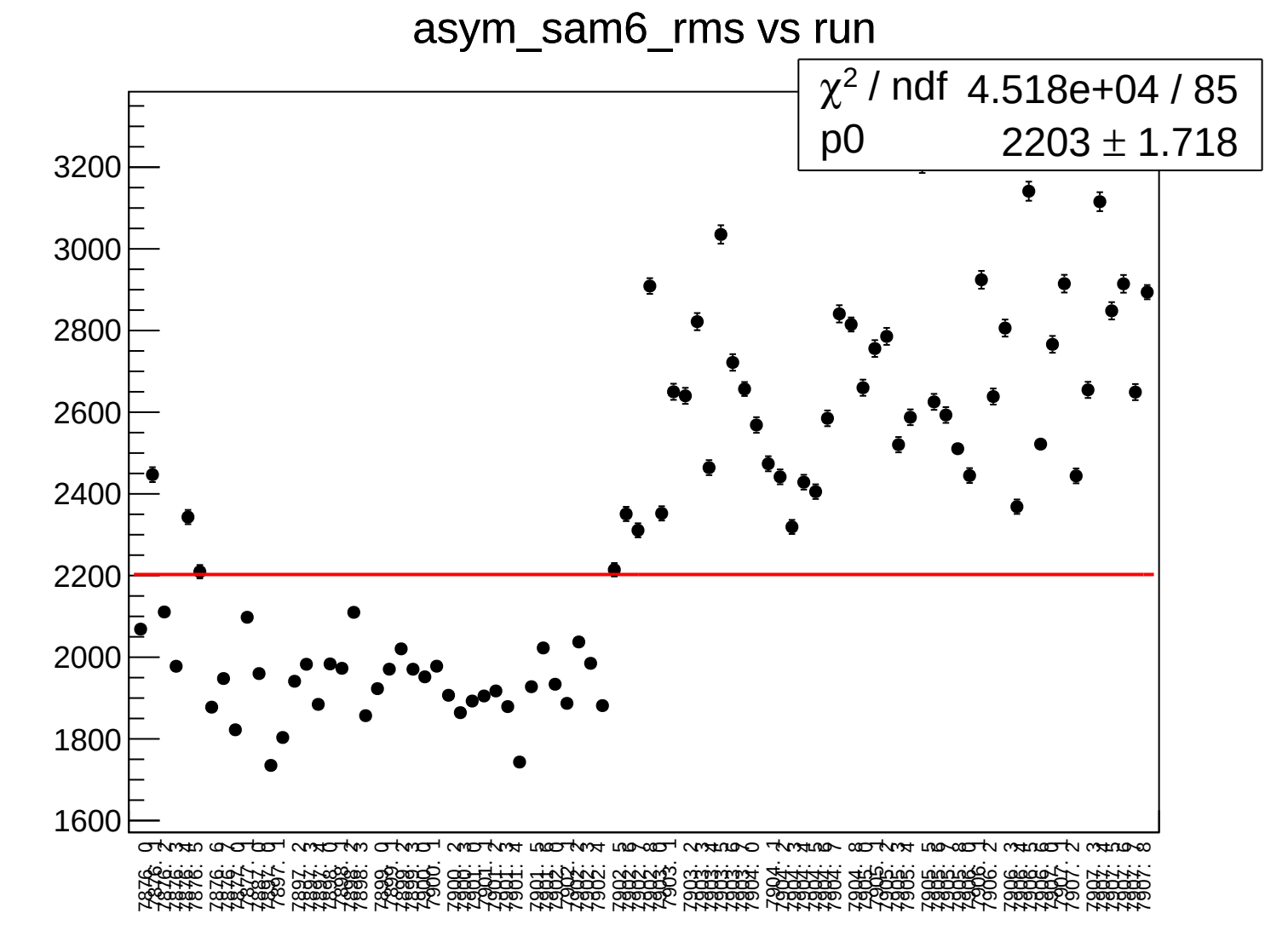

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 74.64 / 85
p0 3584 ± 2365
×10³
pull
Entries 86
Mean −35.89
Std Dev 0

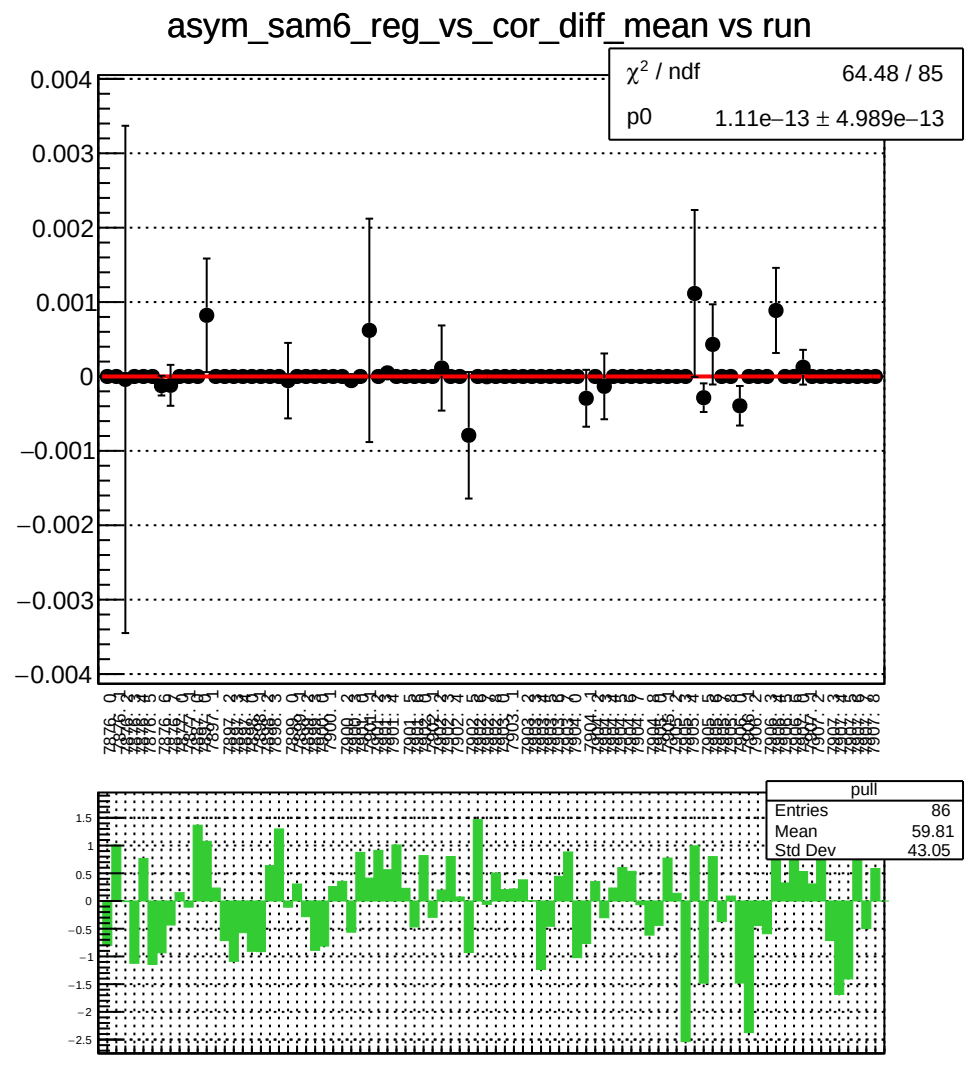

pull1D
Entries 86
Mean −0.01491
Std Dev 0.9315

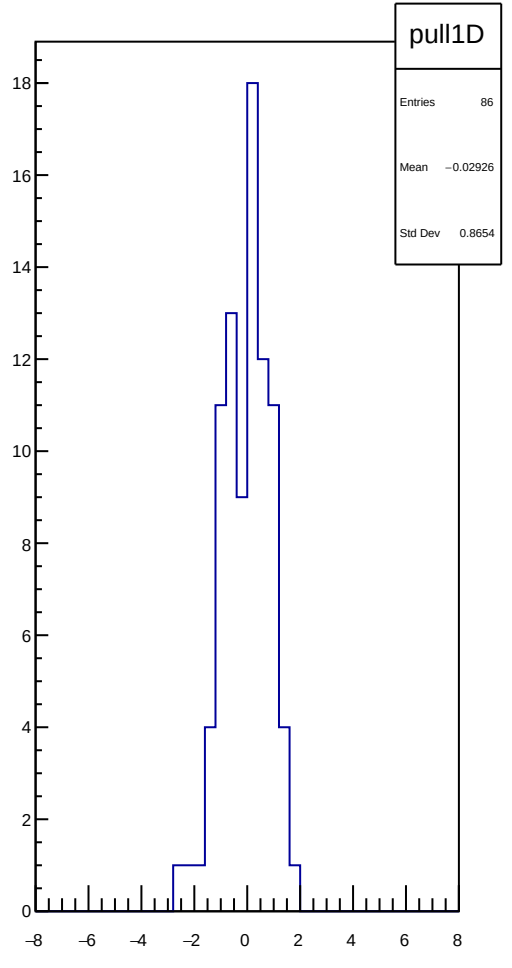

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 4.544e+04 / 85
p0 2143 ± 1.672
3200
3000
2800
2600
2400
2200
2000
1800
1600

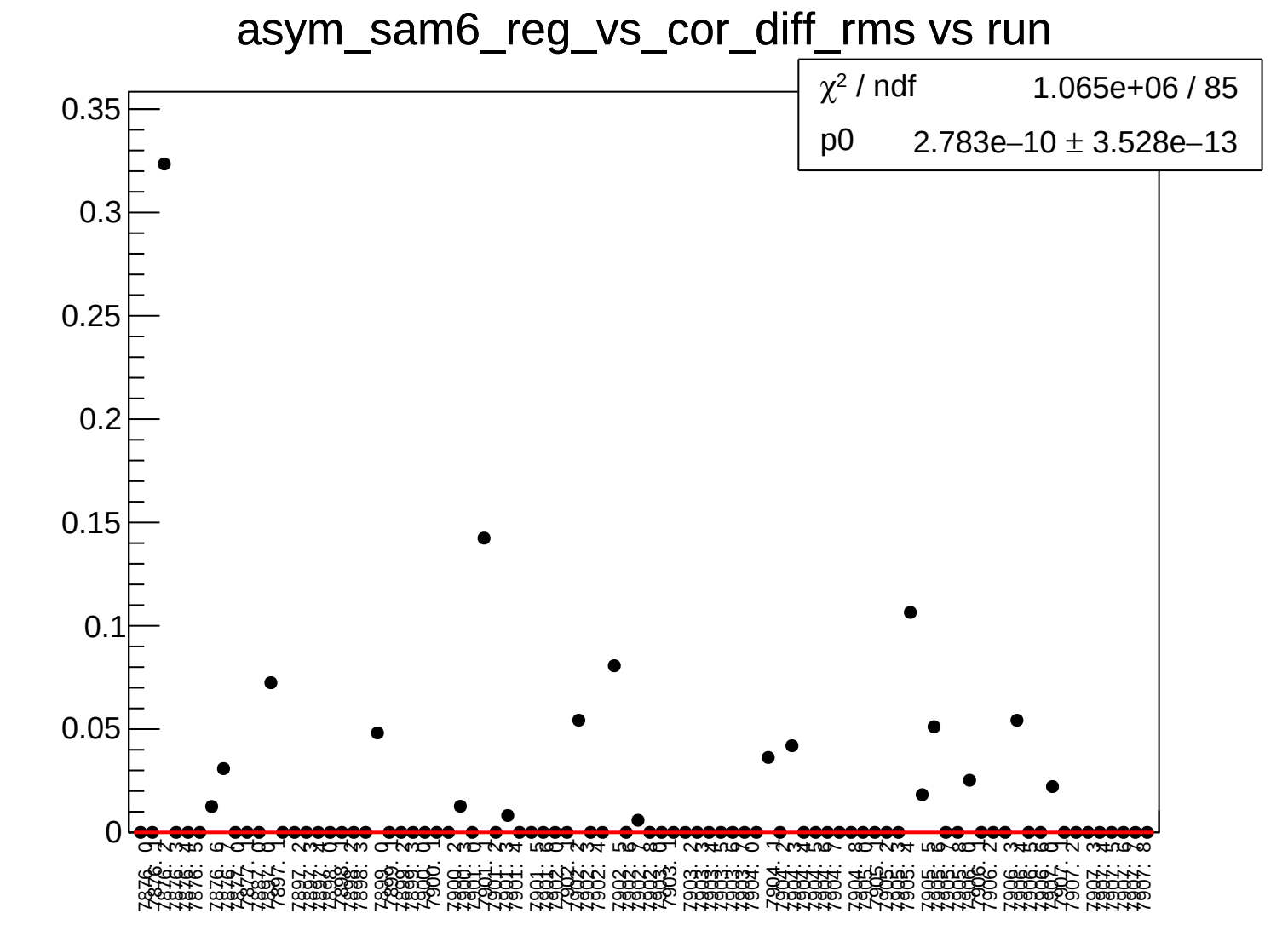

asym_sam6_mean vs run
×10^3
χ² / ndf 73.03 / 85
p0 −3817 ± 2430
pull
Entries 86
Mean −62.27
Std Dev 0

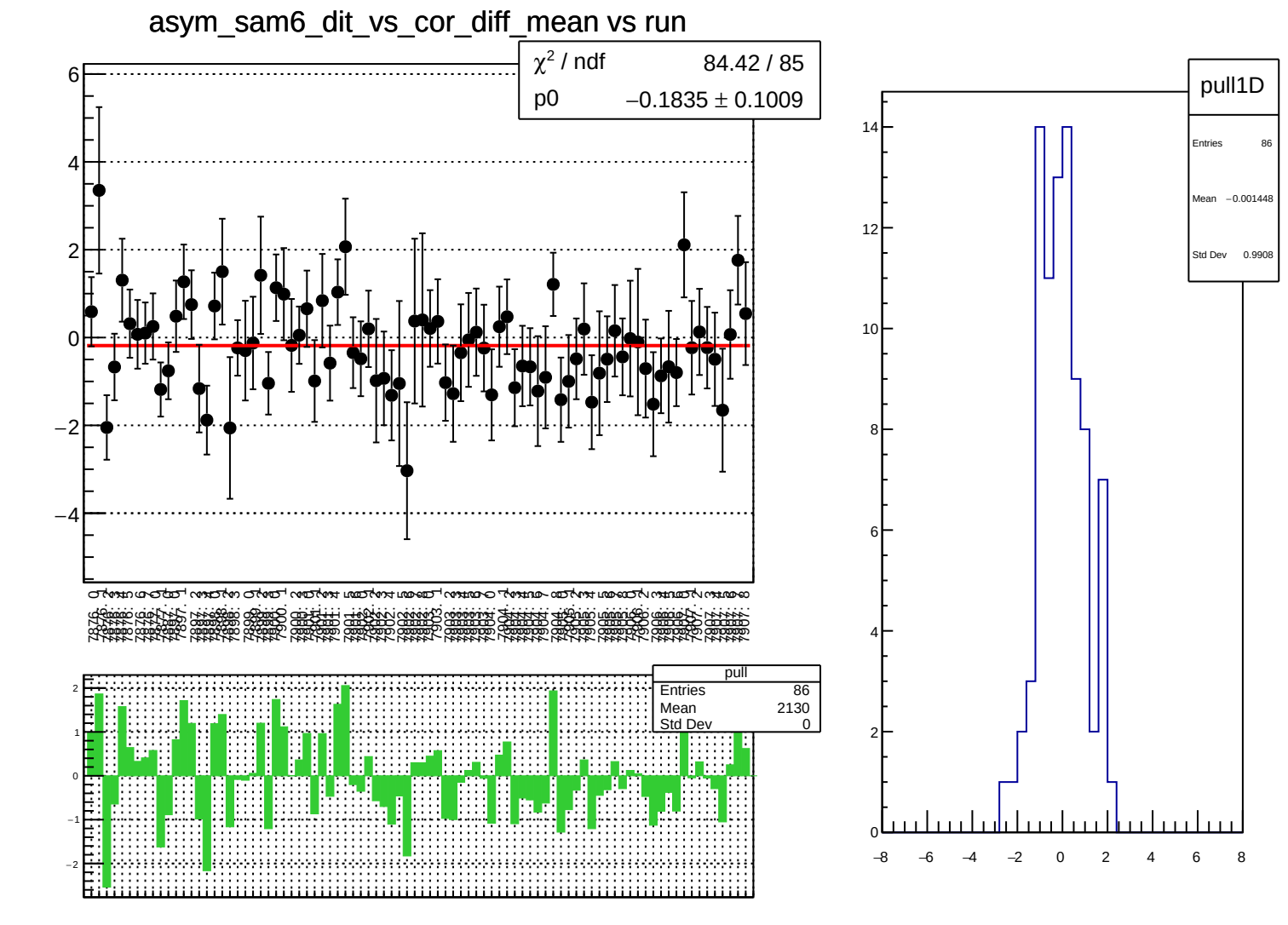

pull1D
Entries 86
Mean 0.01522
Std Dev 0.9214

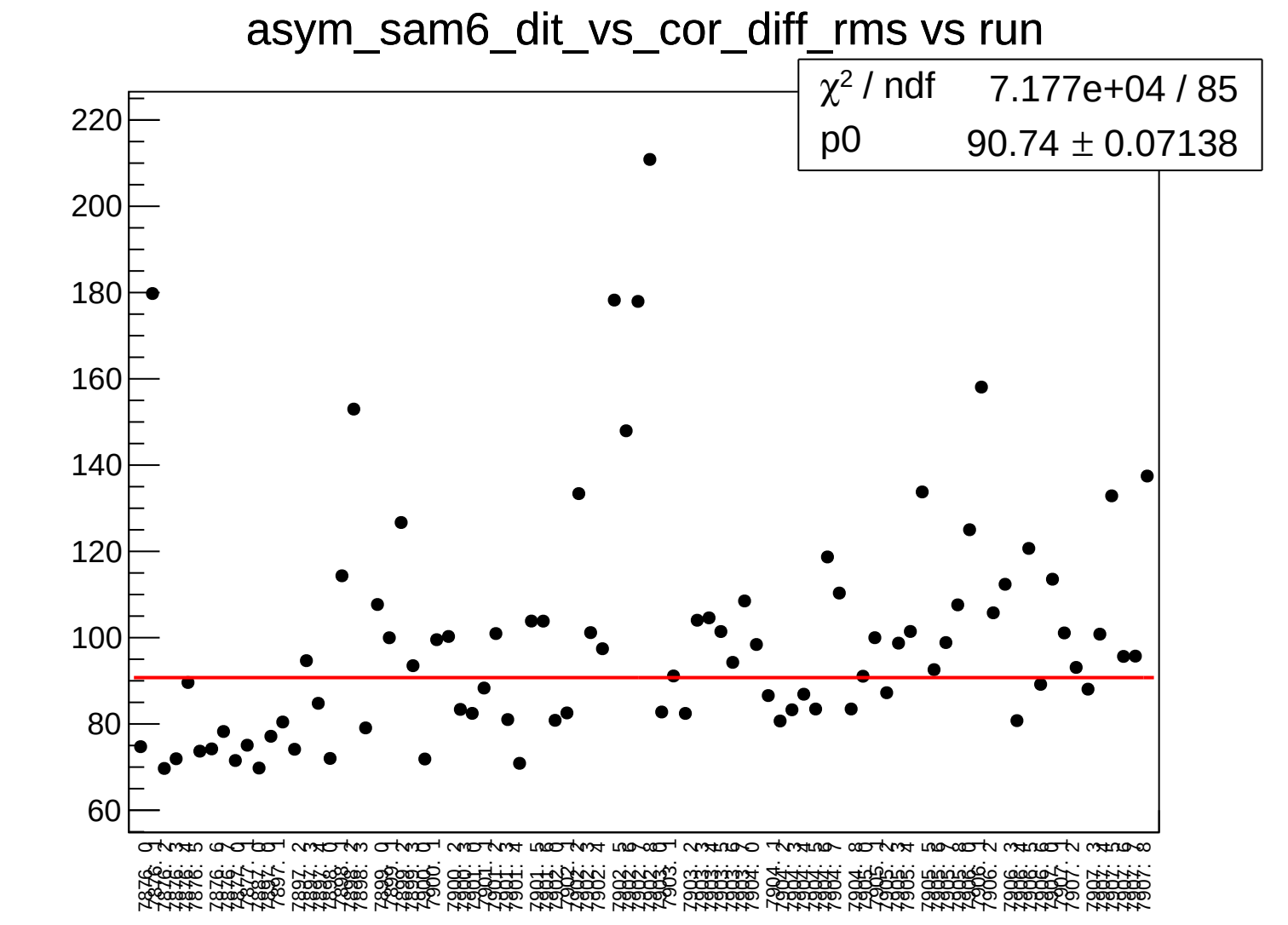

asym_sam6_rms vs run
χ^2 / ndf 4.518e+04 / 85
p0 2203 ± 1.718
3200
3000
2800
2600
2400
2200
2000
1800
1600

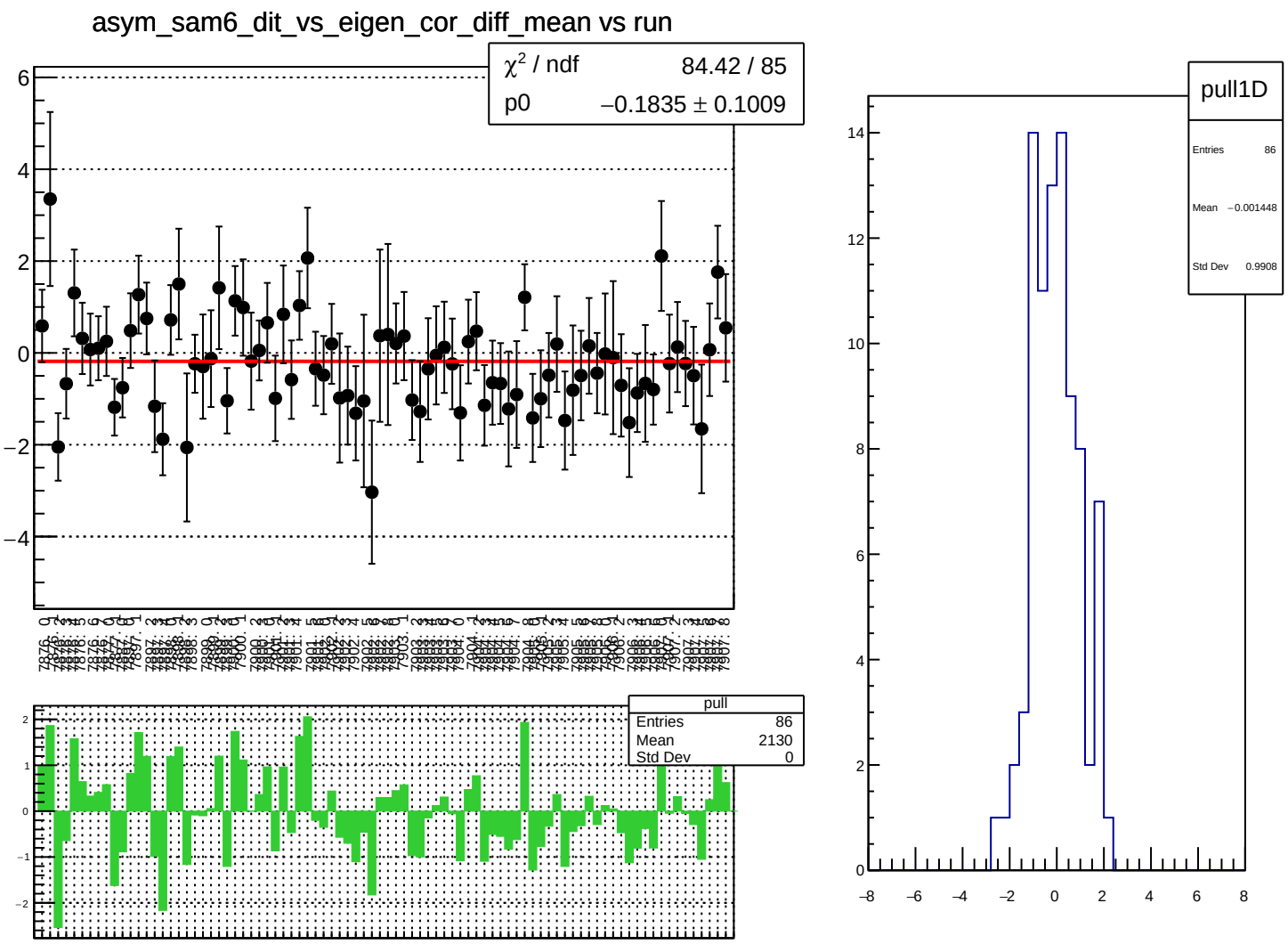

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 64.48 / 85
p0 1.11e−13 ± 4.989e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 86
Mean 59.81
Std Dev 43.05
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

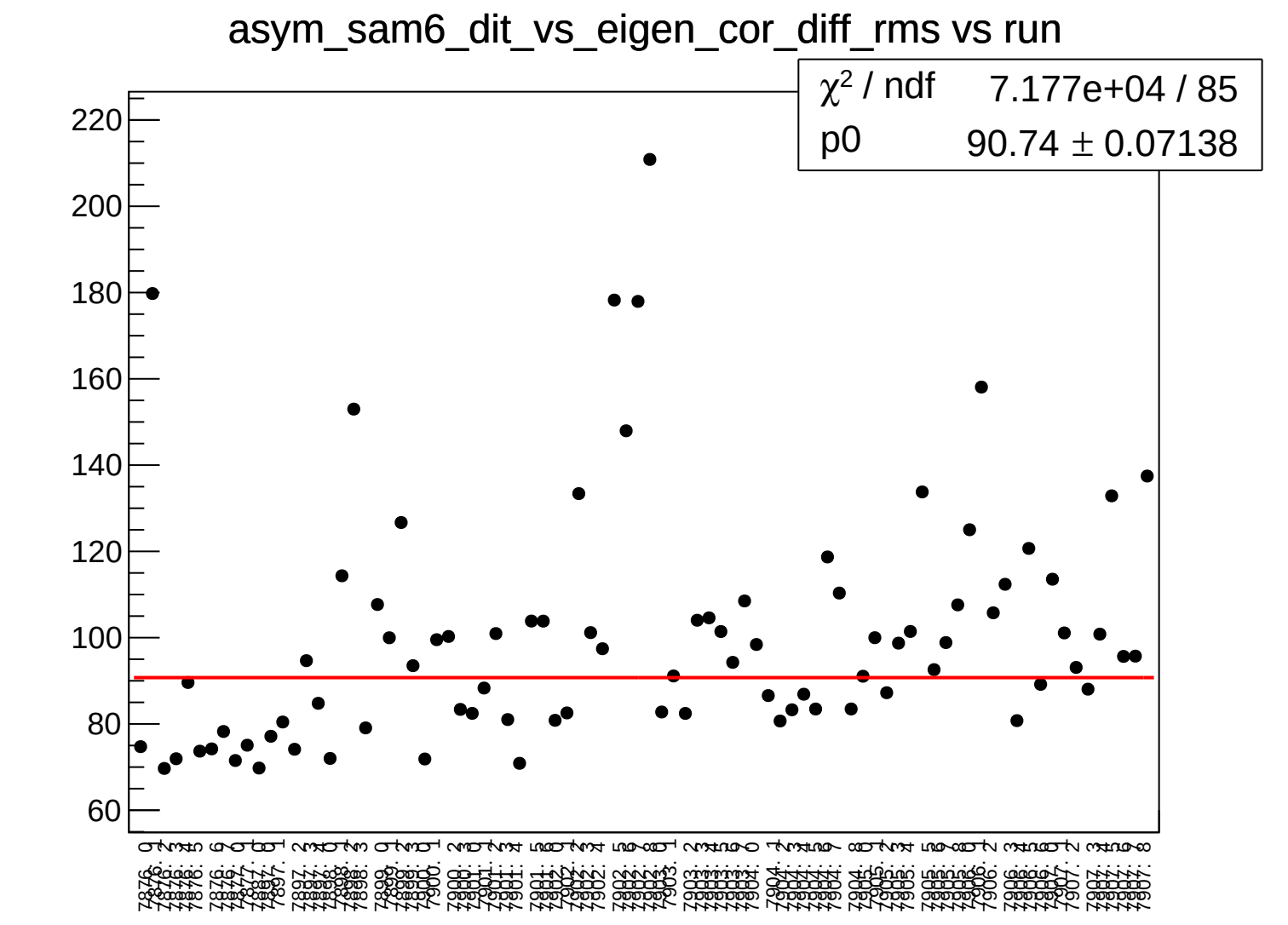

pull1D
Entries 86
Mean −0.02926
Std Dev 0.8654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

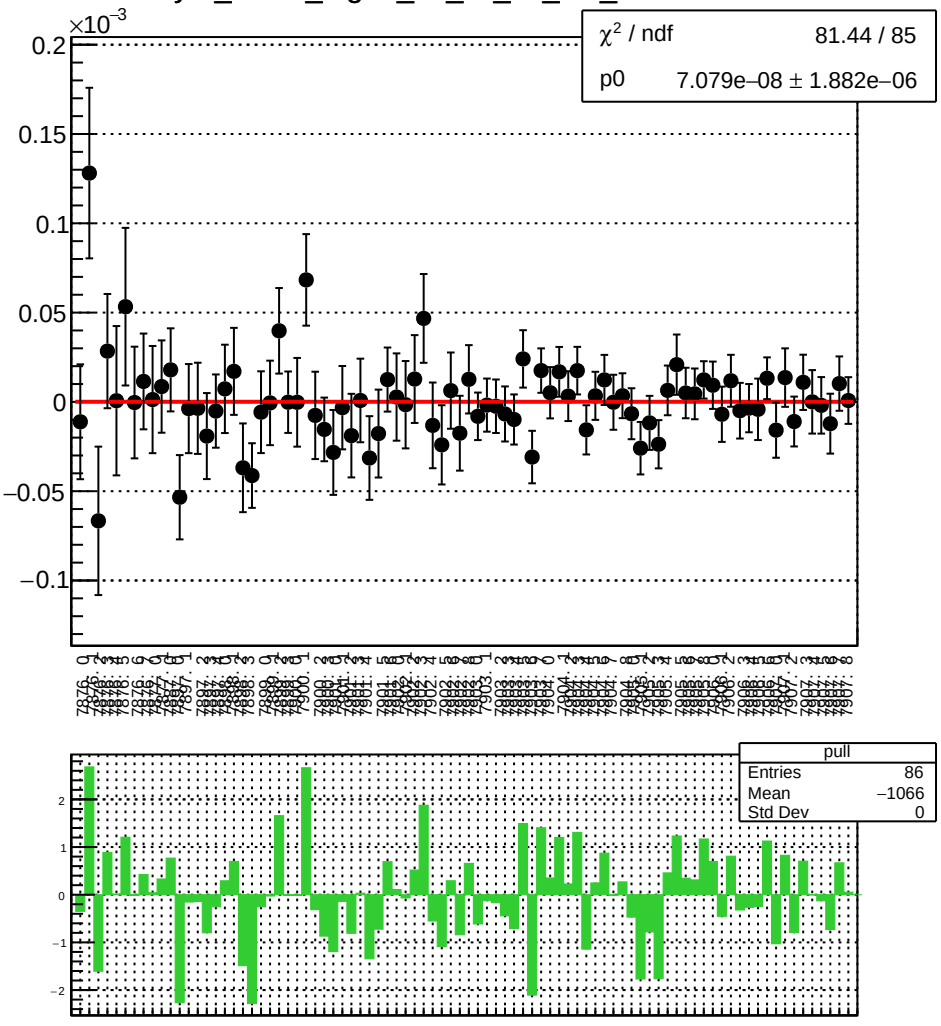

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 85
p0 2.783e−10 ± 3.528e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

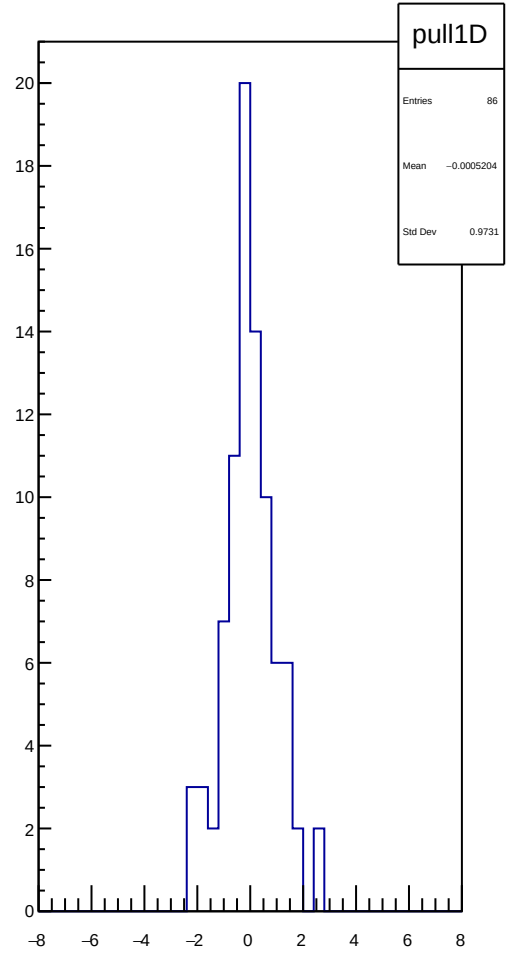

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 84.42 / 85
p0 −0.1835 ± 0.1009
pull
Entries 86
Mean 2130
Std Dev 0
pull1D
Entries 86
Mean −0.001448
Std Dev 0.9908

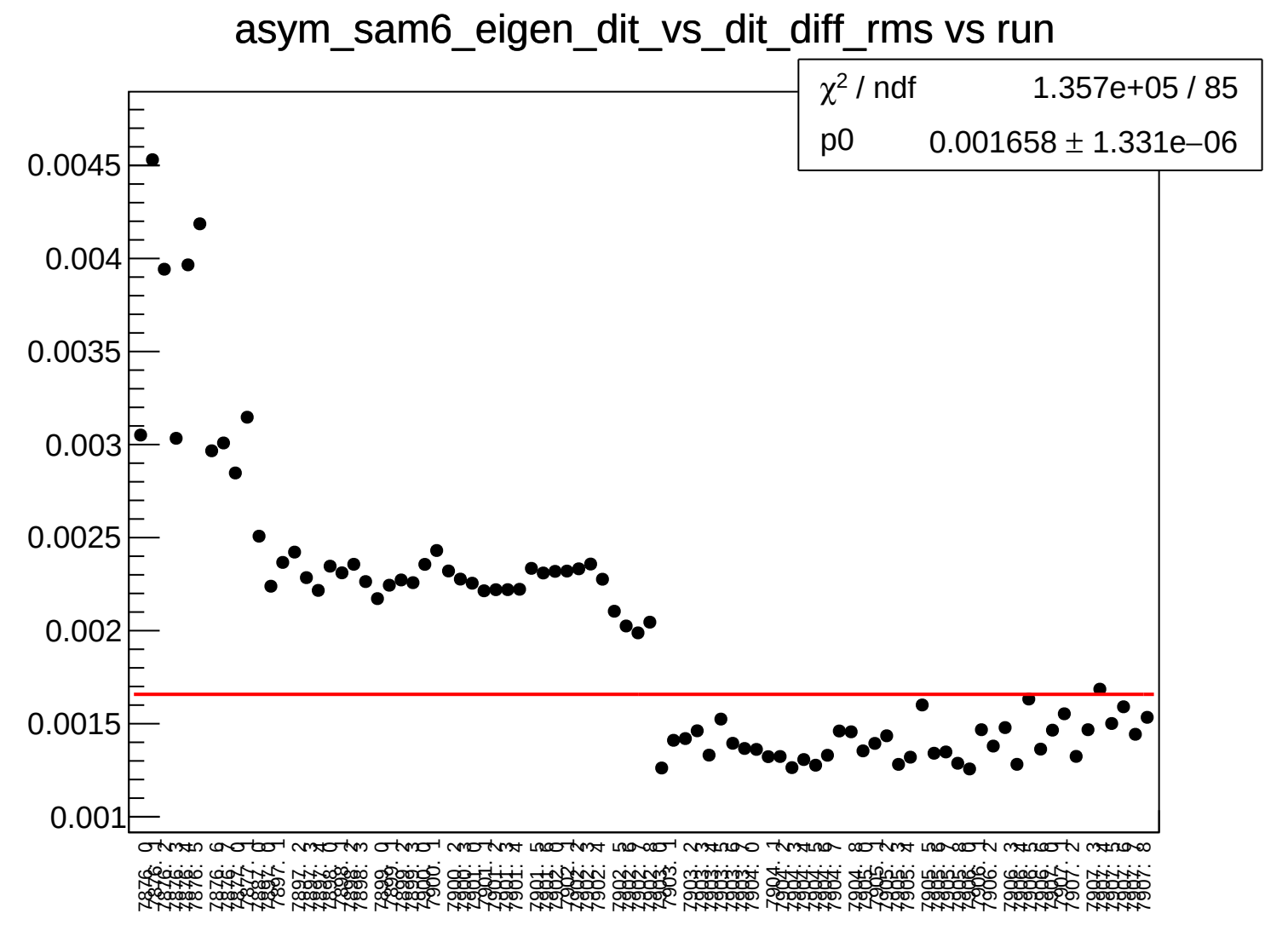

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.177e+04 / 85
p0 90.74 ± 0.07138
220
200
180
160
140
120
100
80
60

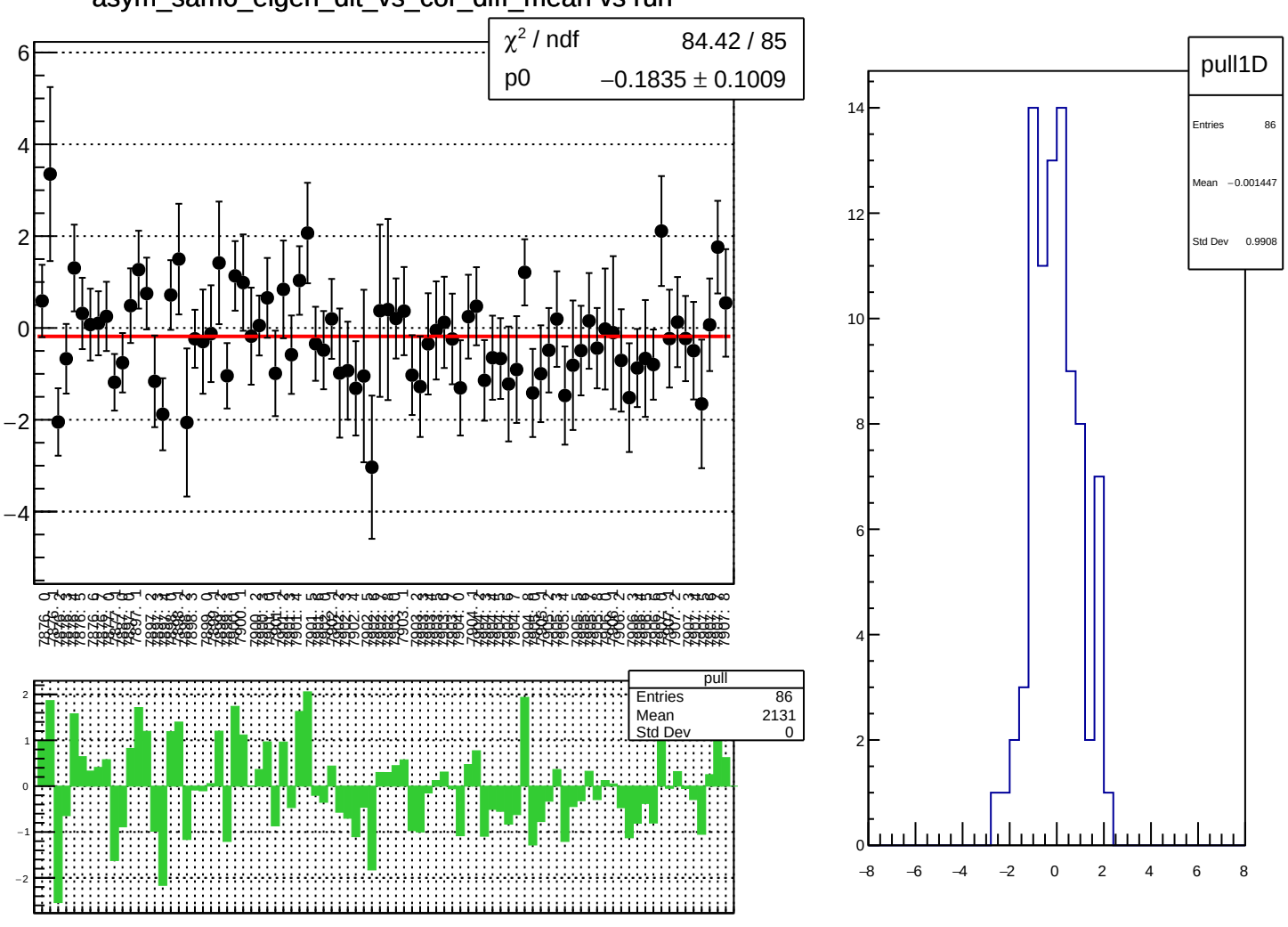

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.42 / 85
p0 −0.1835 ± 0.1009
pull
Entries 86
Mean 2130
Std Dev 0
pull1D
Entries 86
Mean −0.001448
Std Dev 0.9908

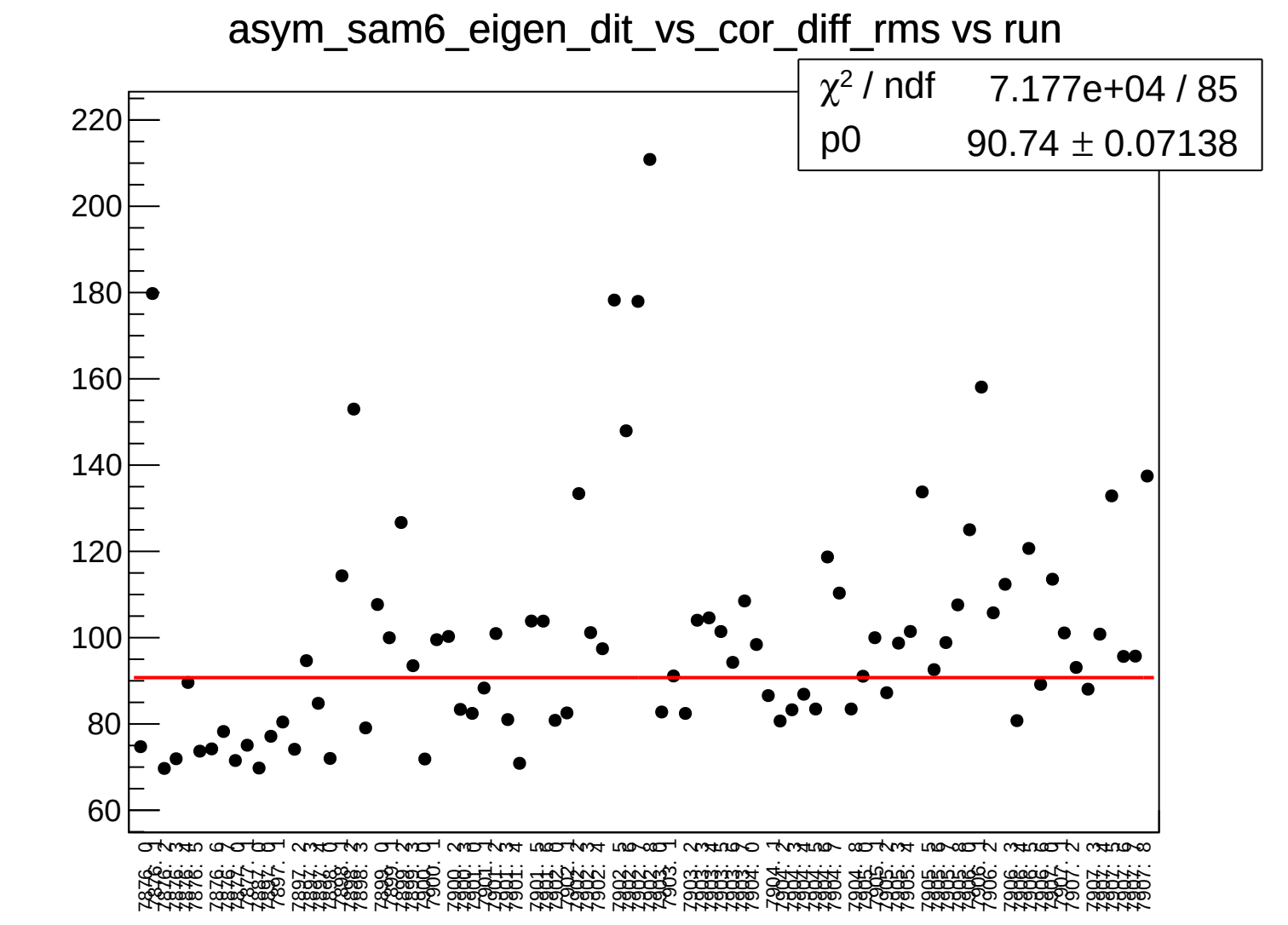

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.177e+04 / 85
p0 90.74 ± 0.07138
220
200
180
160
140
120
100
80
60

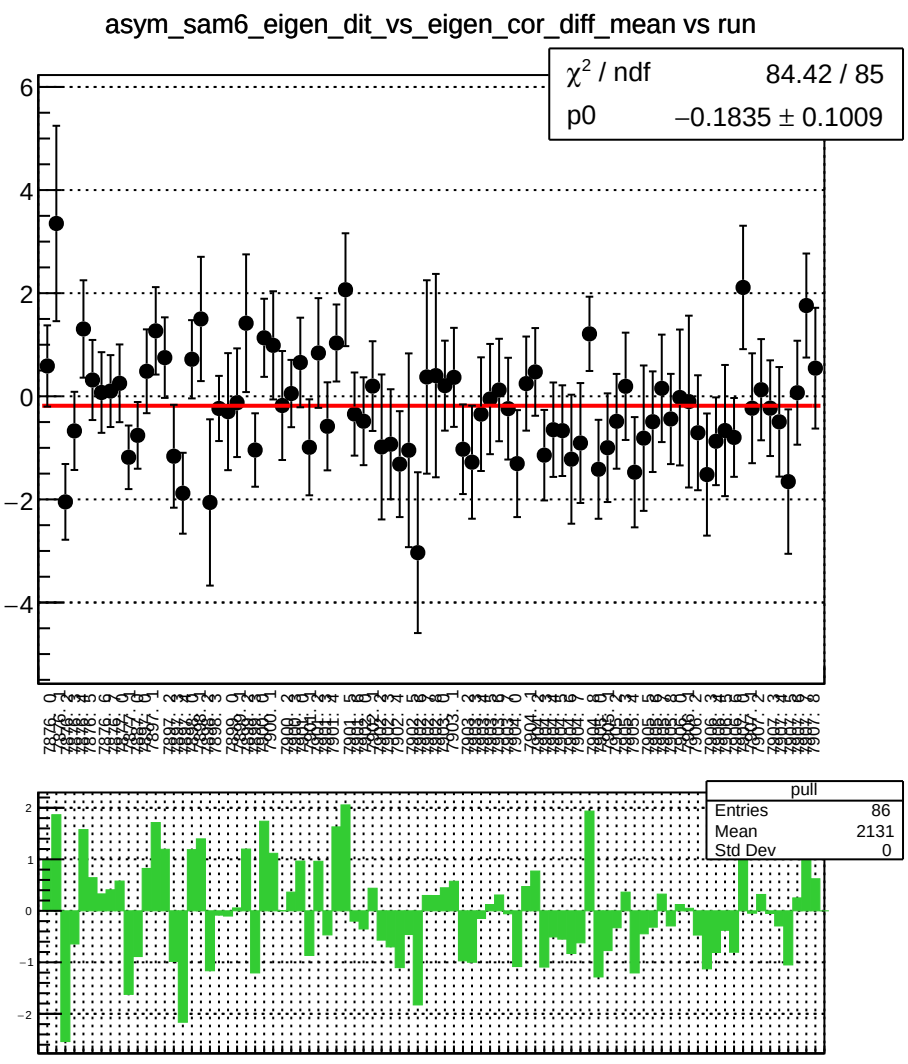

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.44 / 85
p0 7.079e−08 ± 1.882e−06
pull
Entries 86
Mean −1066
Std Dev 0

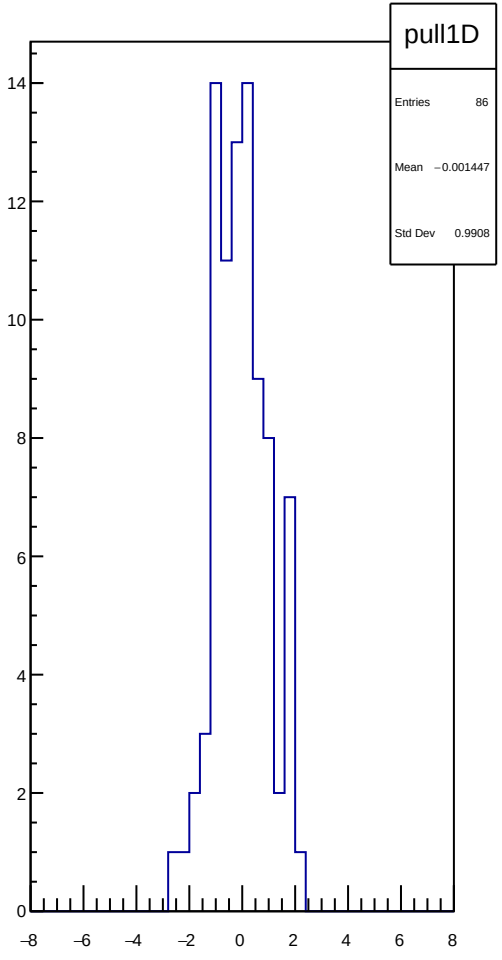

pull1D
Entries 86
Mean −0.0005204
Std Dev 0.9731

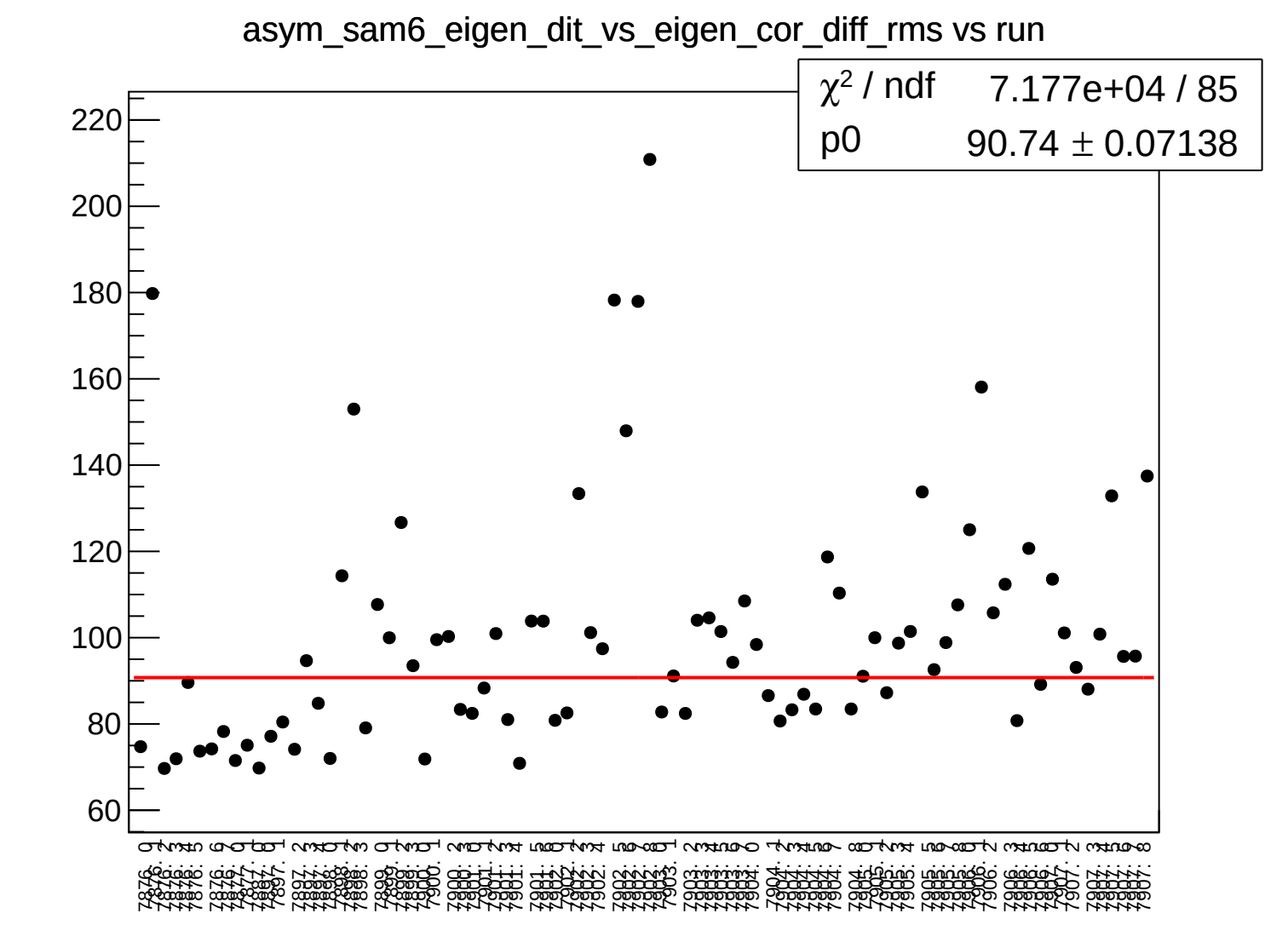

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.357e+05 / 85
p0 0.001658 ± 1.331e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

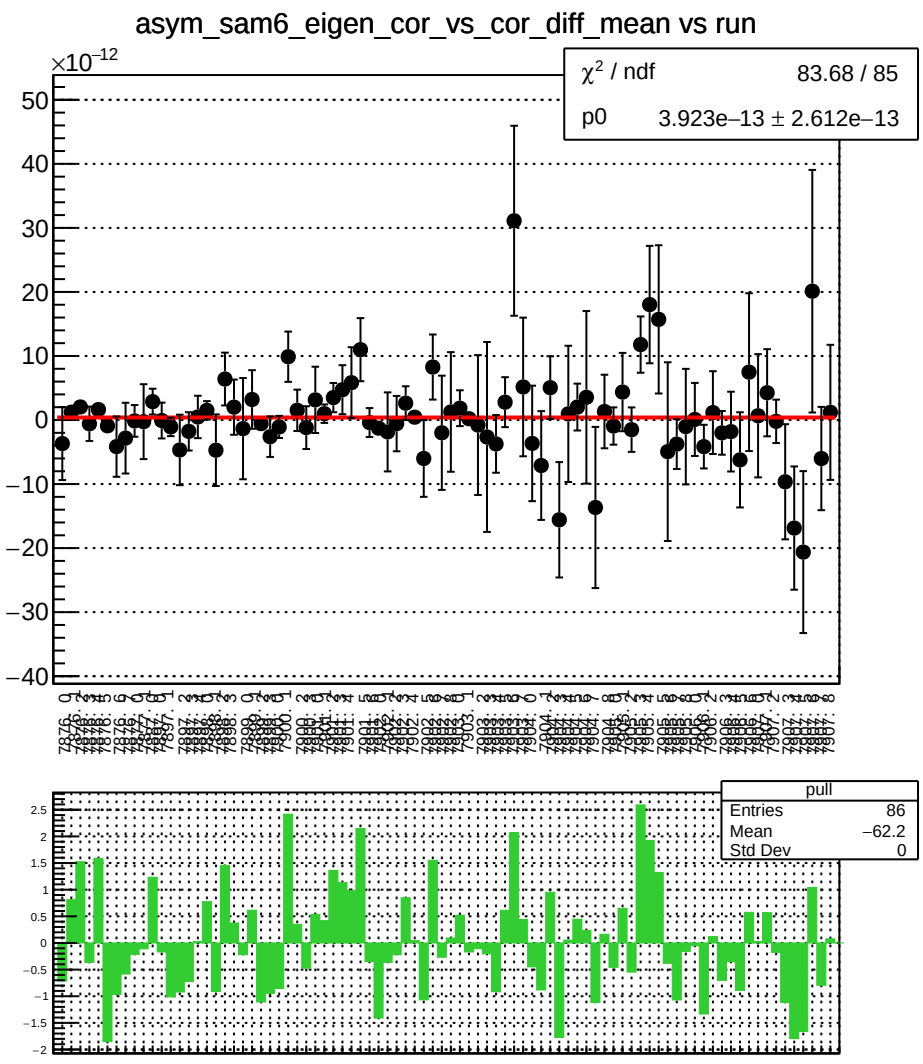

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.42 / 85
p0 −0.1835 ± 0.1009
pull
Entries 86
Mean 2131
Std Dev 0
pull1D
Entries 86
Mean −0.001447
Std Dev 0.9908

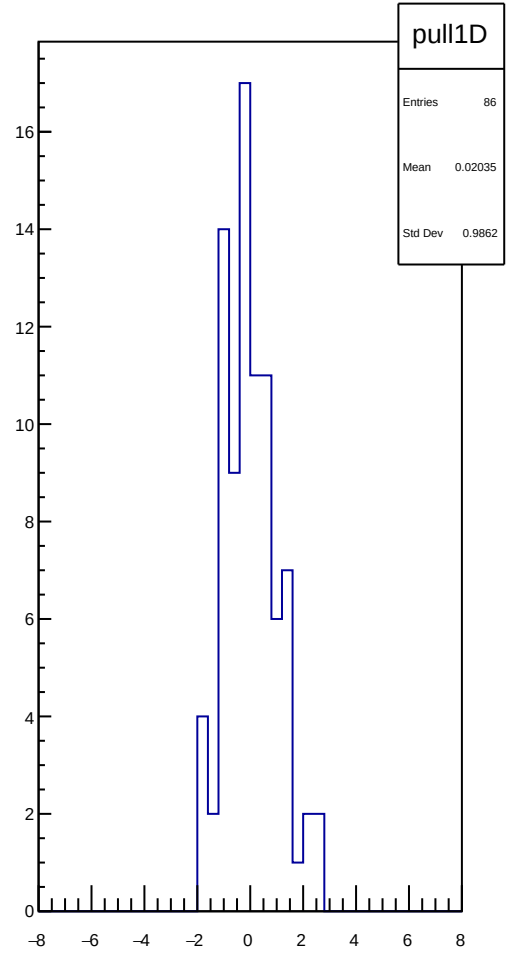

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.177e+04 / 85
p0 90.74 ± 0.07138
220
200
180
160
140
120
100
80
60

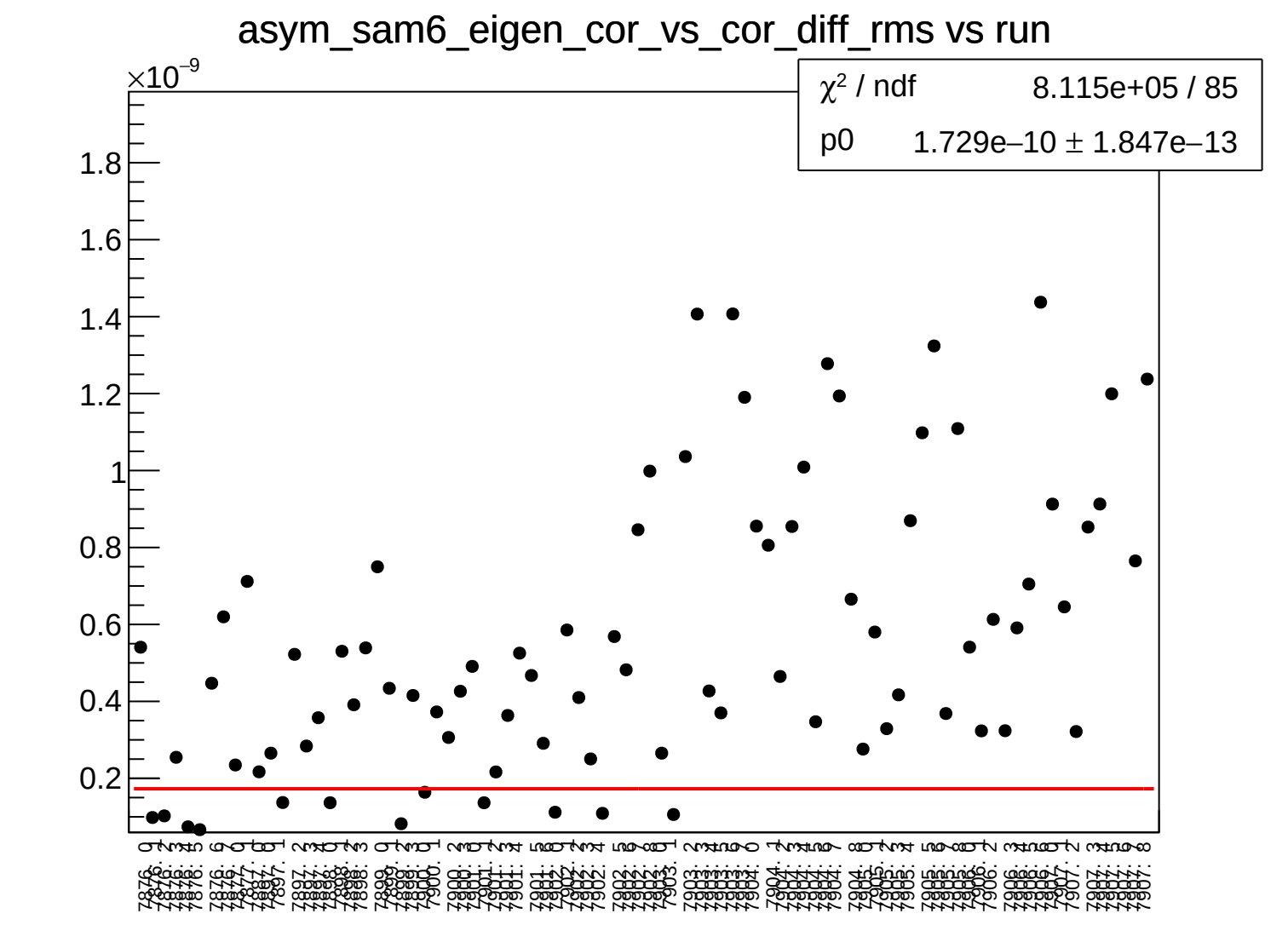

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.42 / 85
p0 −0.1835 ± 0.1009
pull
Entries 86
Mean 2131
Std Dev 0

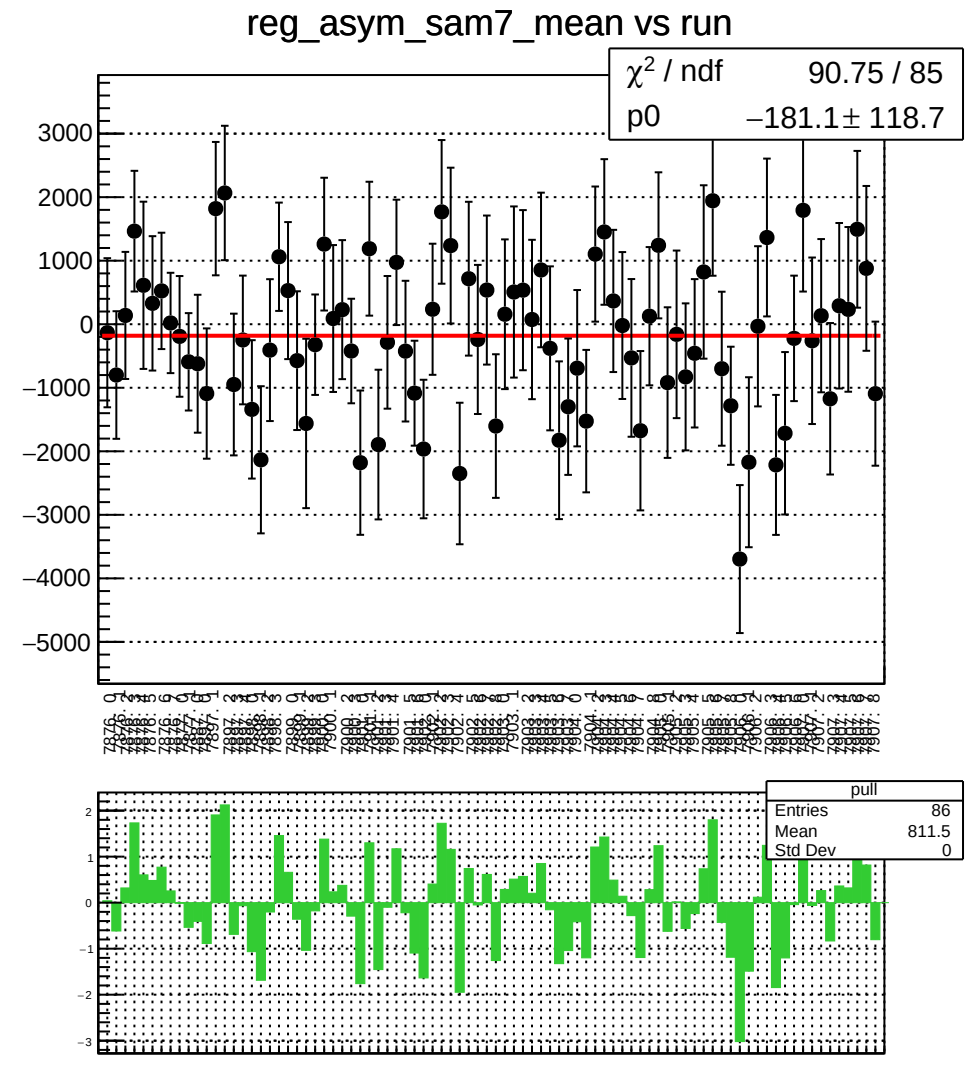

pull1D
Entries 86
Mean −0.001447
Std Dev 0.9908

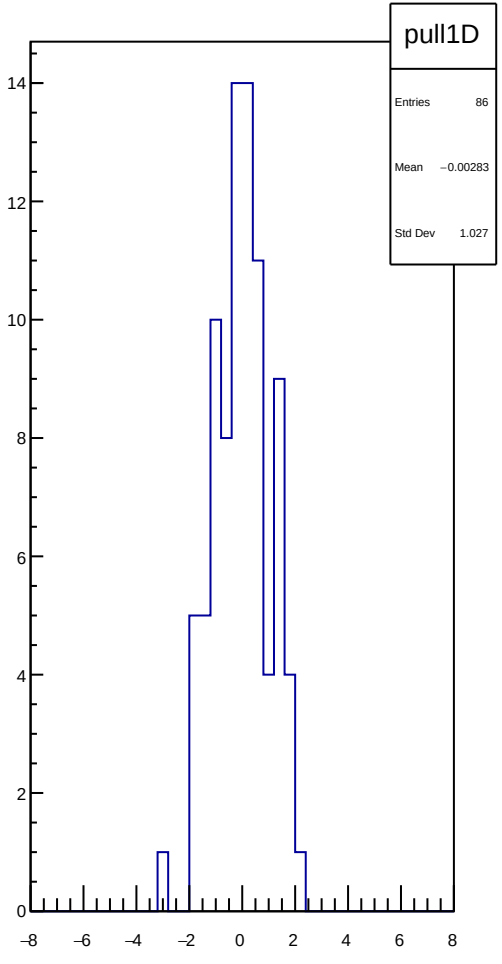

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.177e+04 / 85
p0 90.74 ± 0.07138
220
200
180
160
140
120
100
80
60

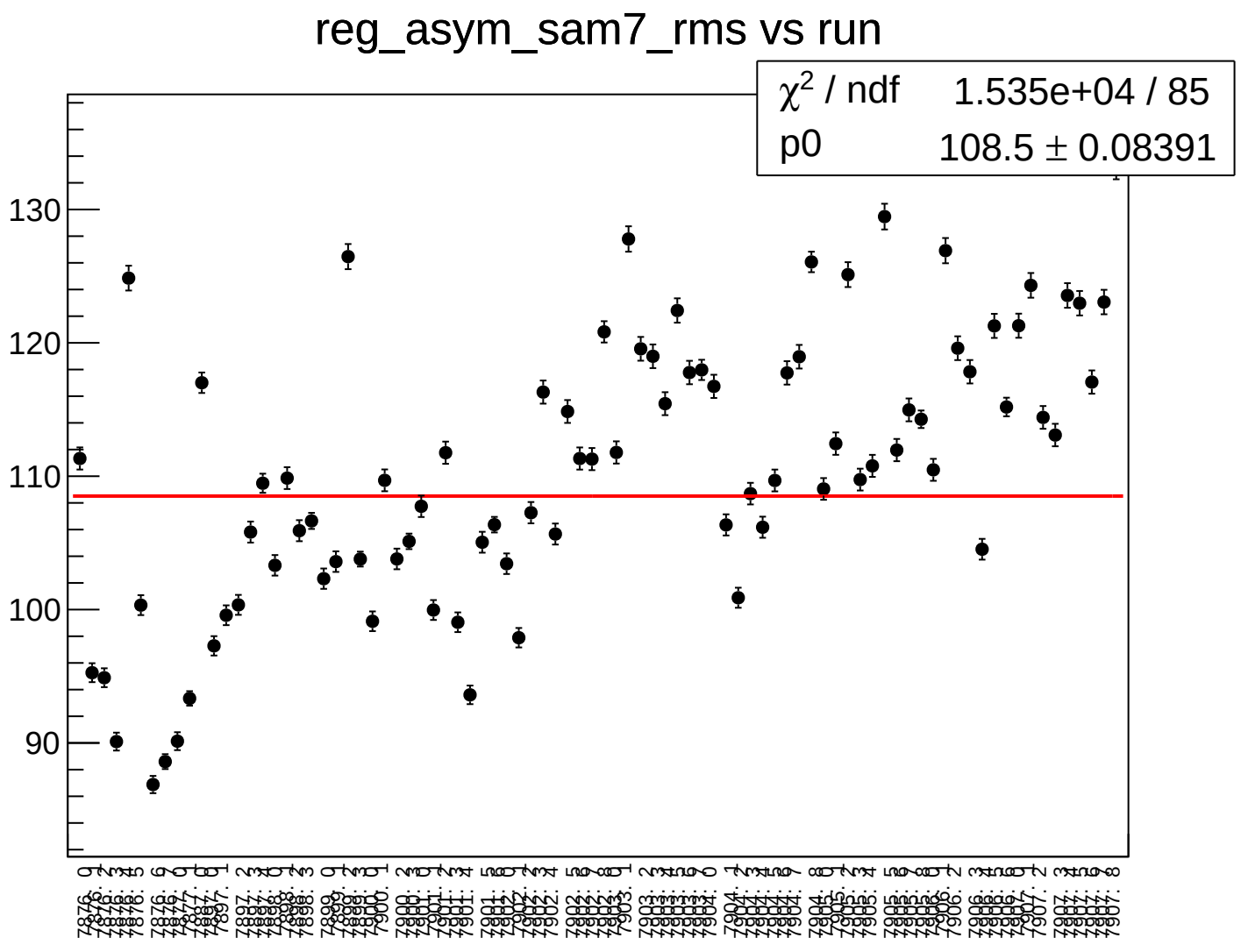

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.68 / 85
p0 3.923e−13 ± 2.612e−13
pull
Entries 86
Mean −62.2
Std Dev 0

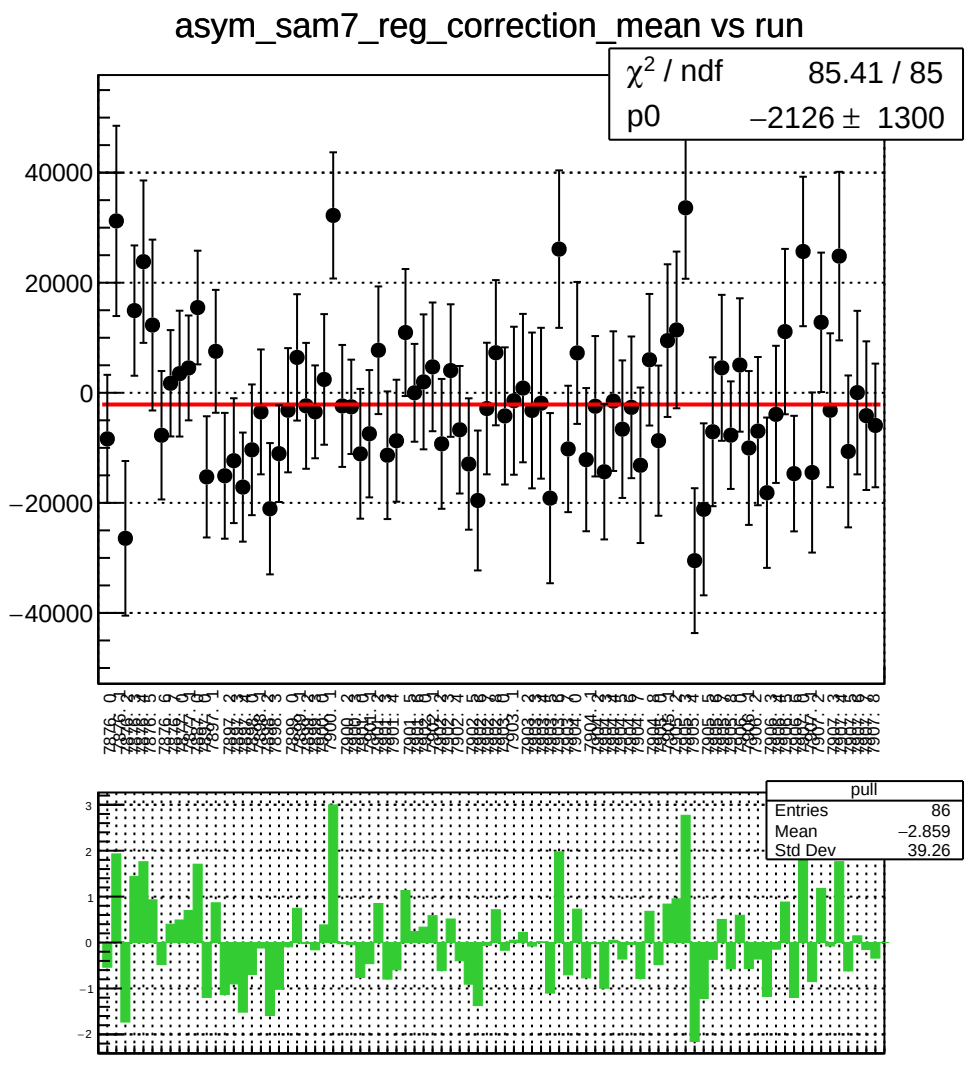

pull1D
Entries 86
Mean 0.02035
Std Dev 0.9862

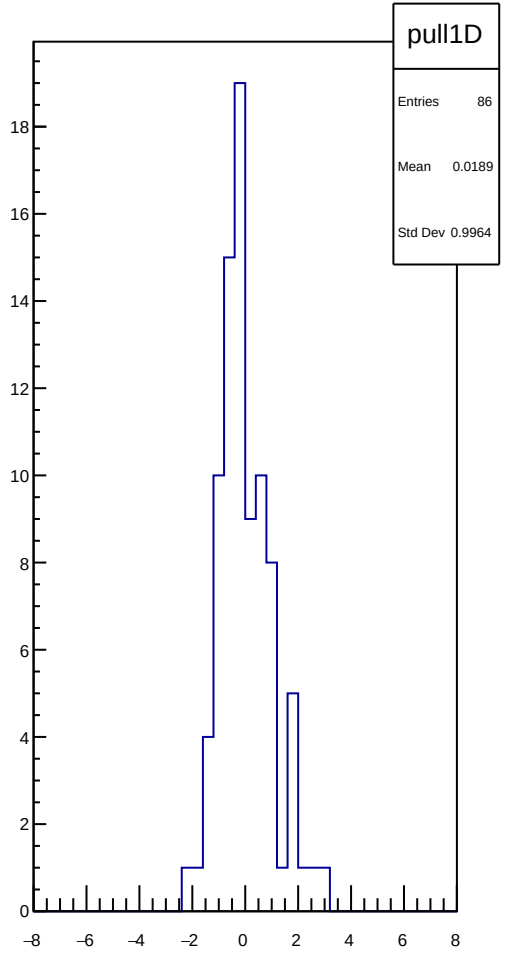

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.115e+05 / 85
p0 1.729e−10 ± 1.847e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

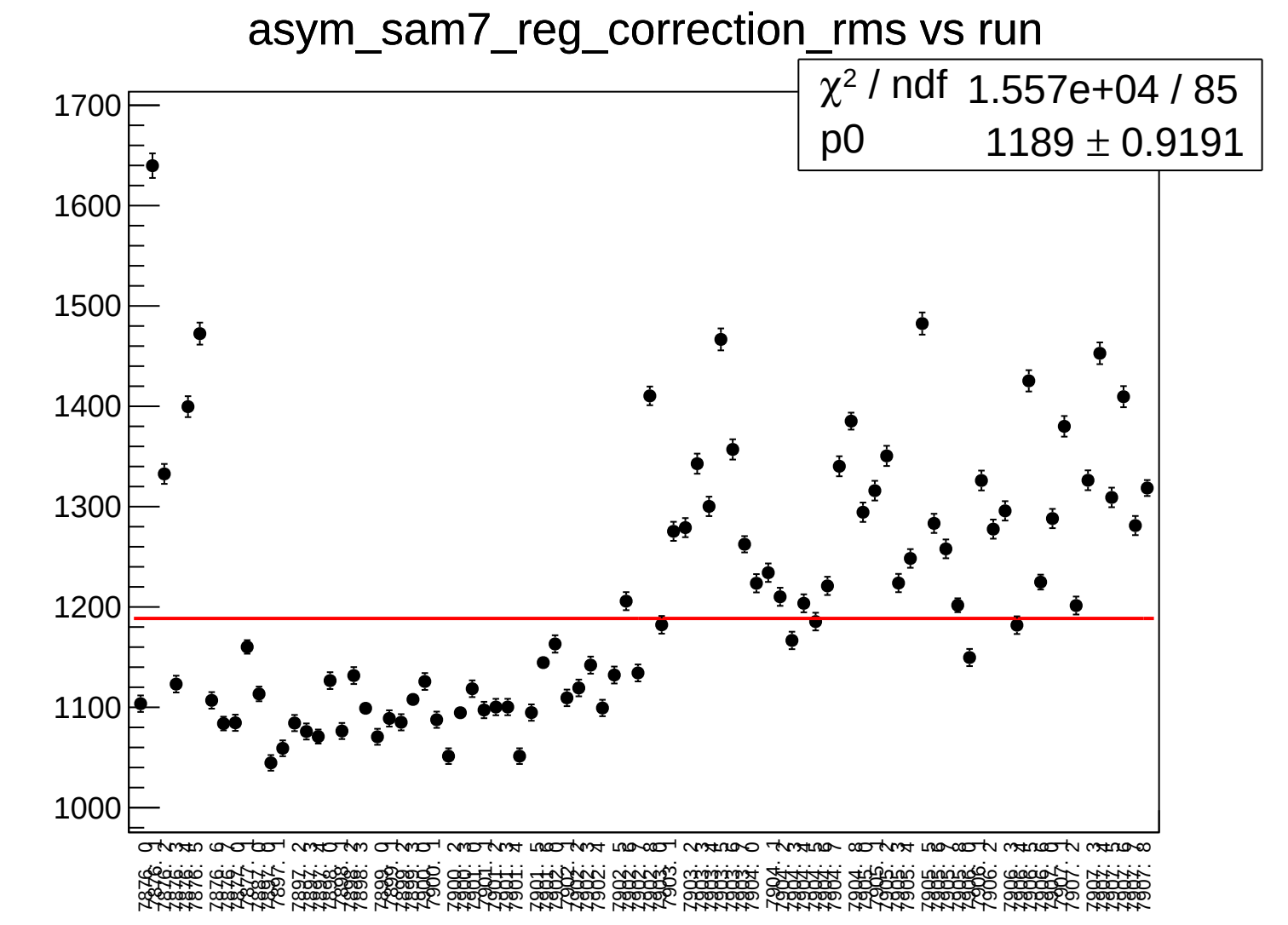

reg_asym_sam7_mean vs run
χ^2 / ndf 90.75 / 85
p0 −181.1± 118.7
pull
Entries 86
Mean 811.5
Std Dev 0

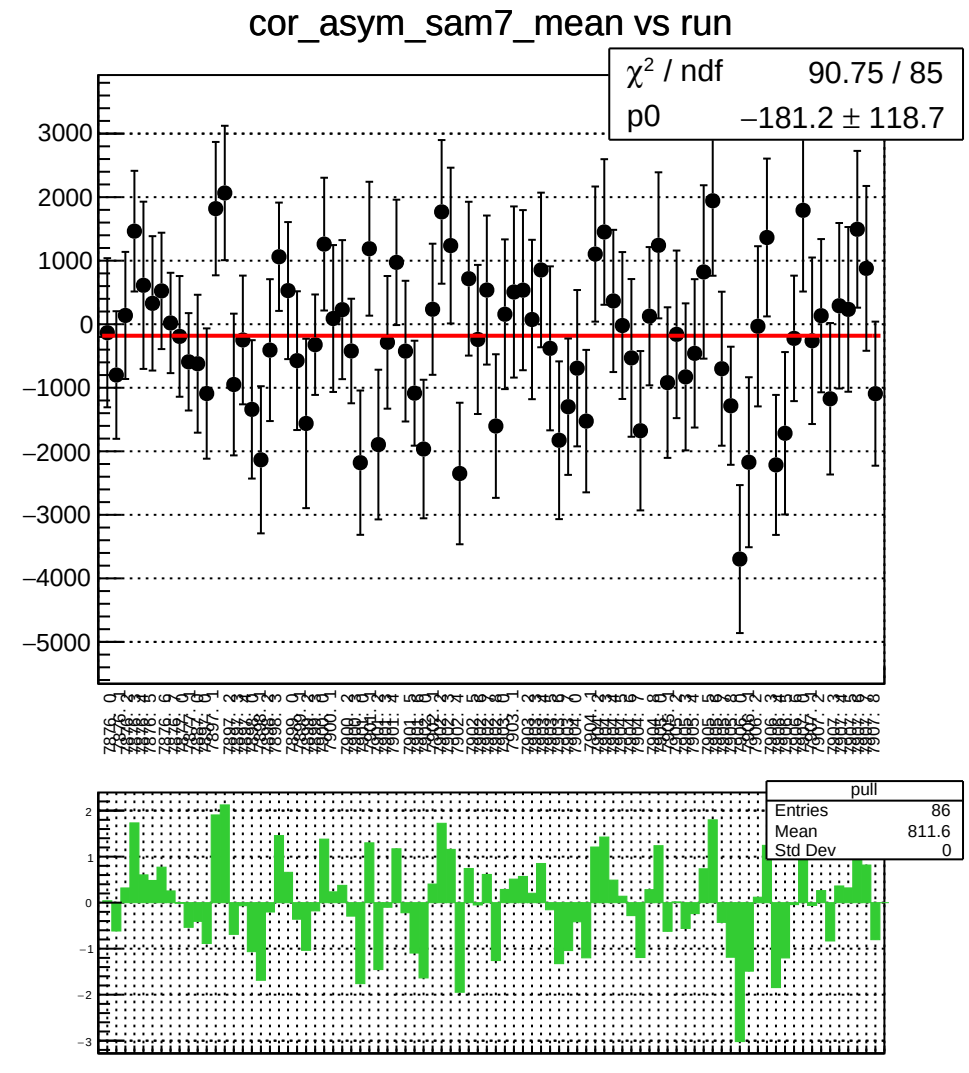

pull1D
Entries 86
Mean −0.00283
Std Dev 1.027

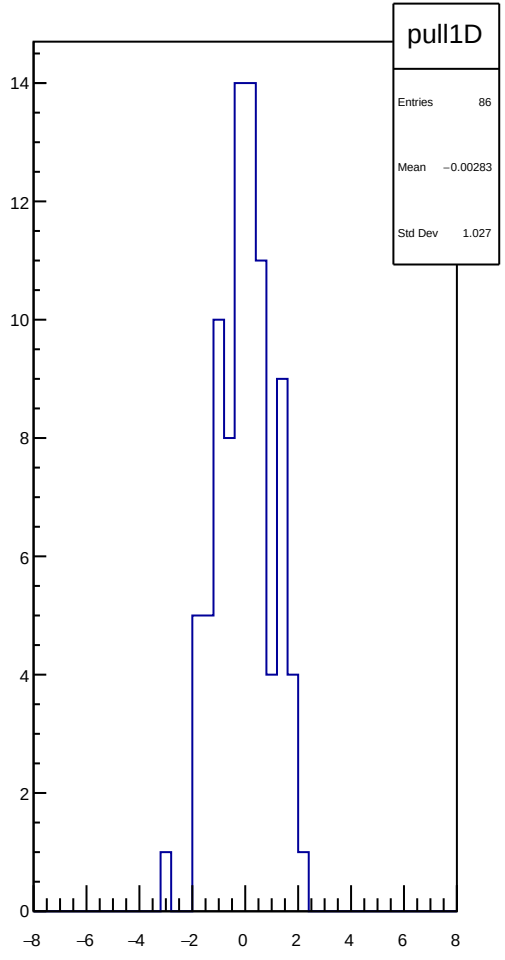

reg_asym_sam7_rms vs run
χ^2 / ndf 1.535e+04 / 85
p0 108.5 ± 0.08391
130
120
110
100
90

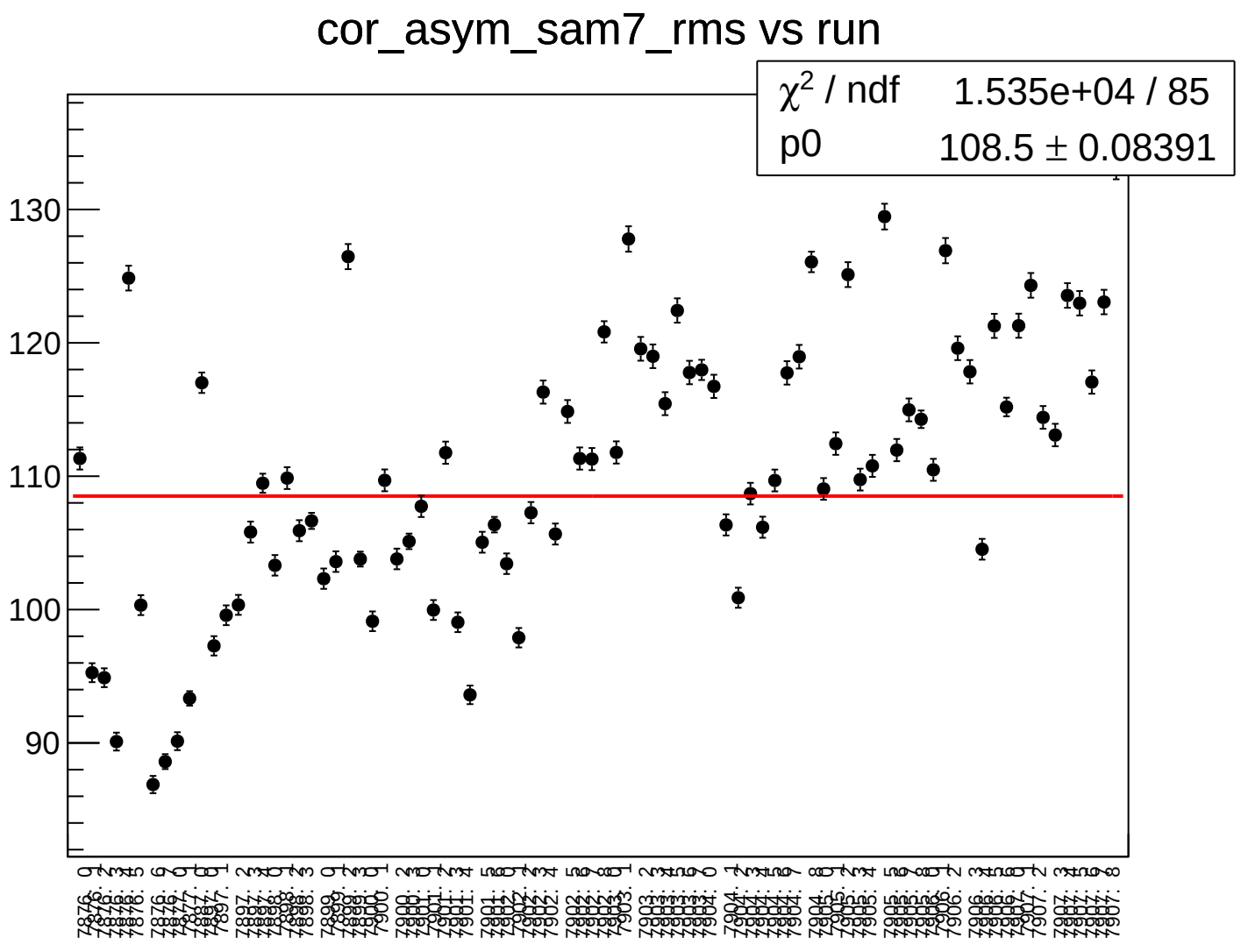

asym_sam7_reg_correction_mean vs run
χ² / ndf 85.41 / 85
p0 −2126 ± 1300
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −2.859
Std Dev 39.26
3
2
1
0
−1
−2

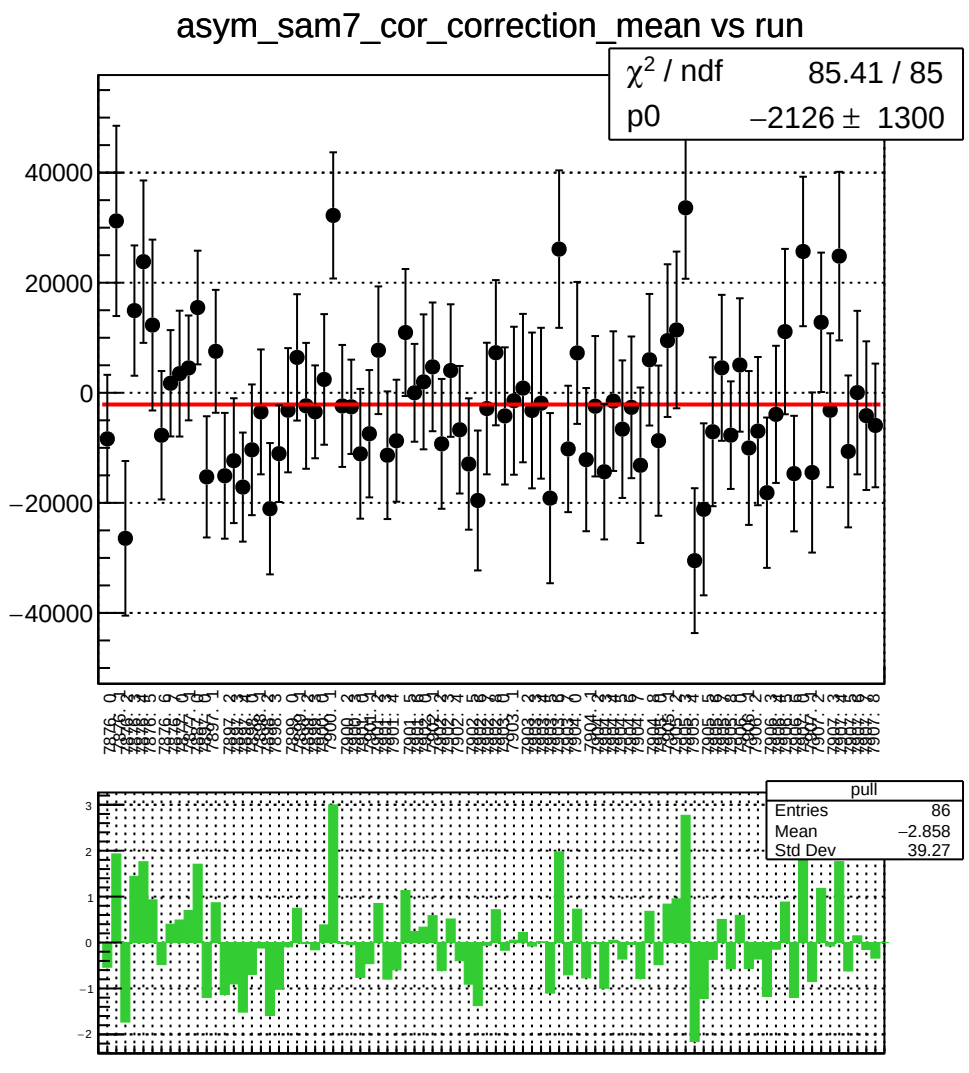

pull1D
Entries 86
Mean 0.0189
Std Dev 0.9964
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

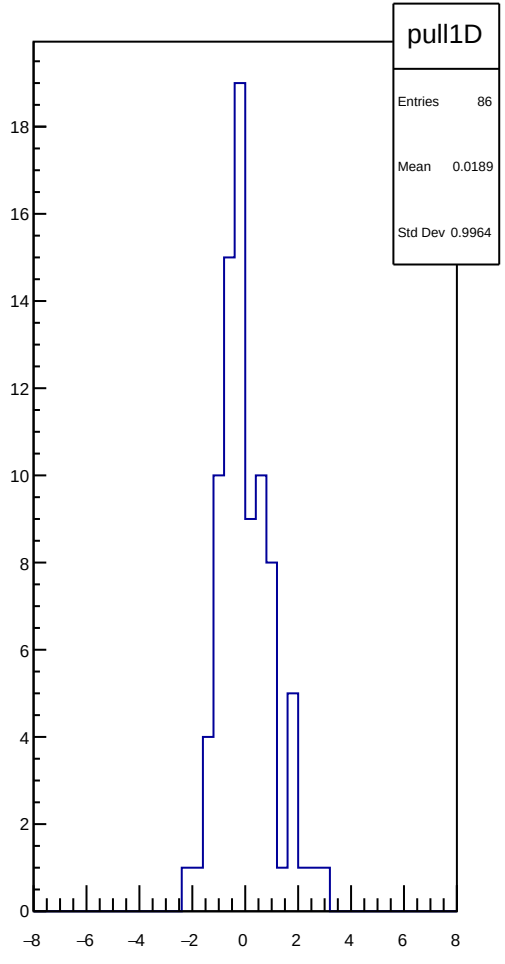

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.557e+04 / 85
p0 1189 ± 0.9191
1700
1600
1500
1400
1300
1200
1100
1000

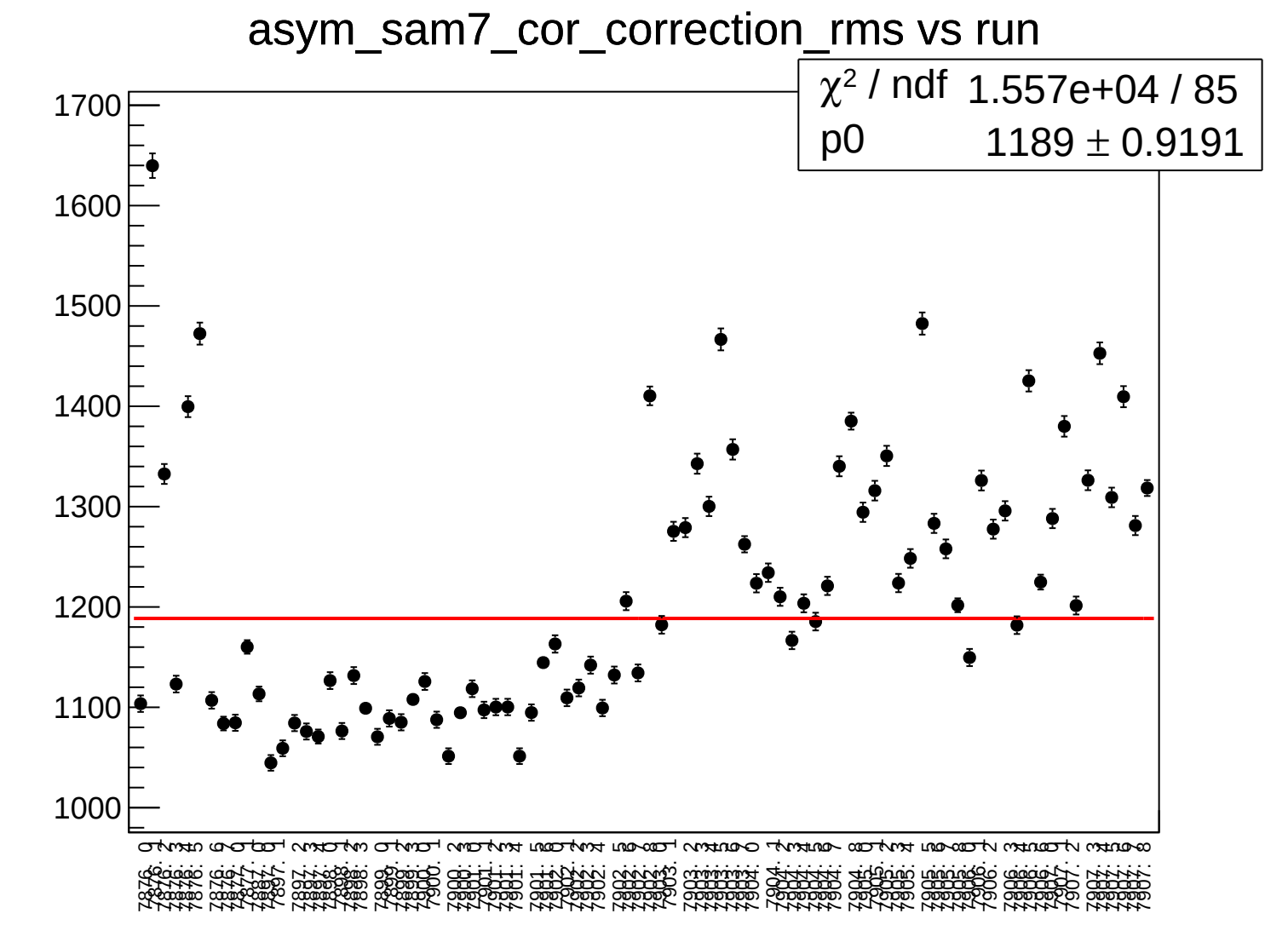

cor_asym_sam7_mean vs run
χ² / ndf 90.75 / 85
p0 −181.2 ± 118.7
pull
Entries 86
Mean 811.6
Std Dev 0

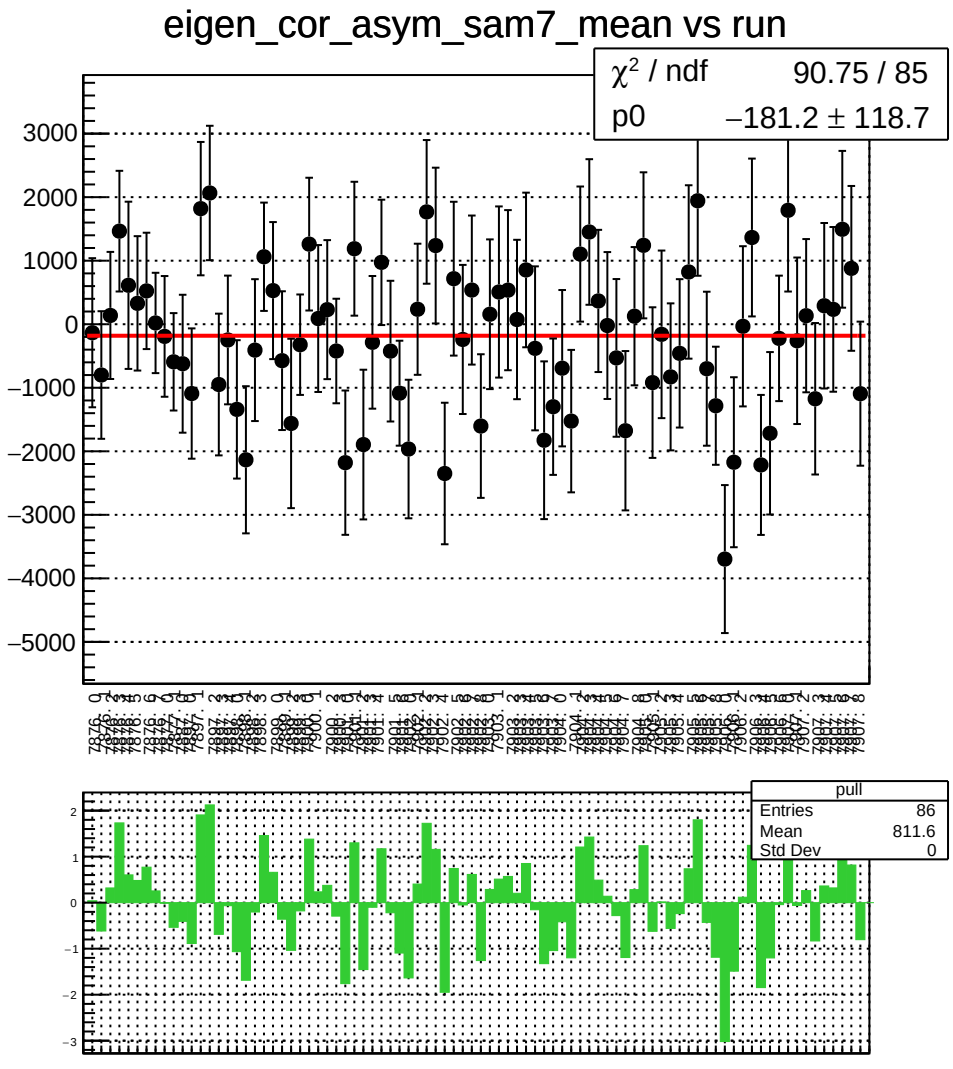

pull1D
Entries 86
Mean −0.00283
Std Dev 1.027

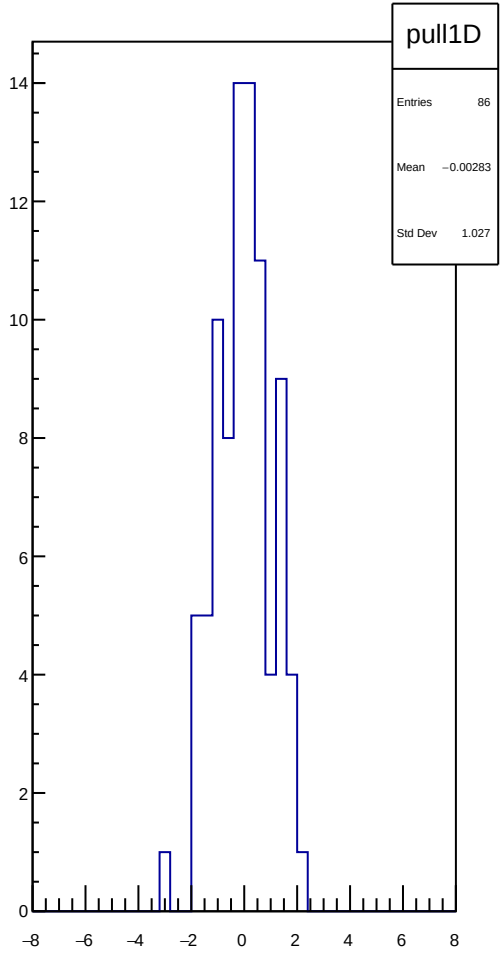

cor_asym_sam7_rms vs run
χ^2 / ndf 1.535e+04 / 85
p0 108.5 ± 0.08391
130
120
110
100
90

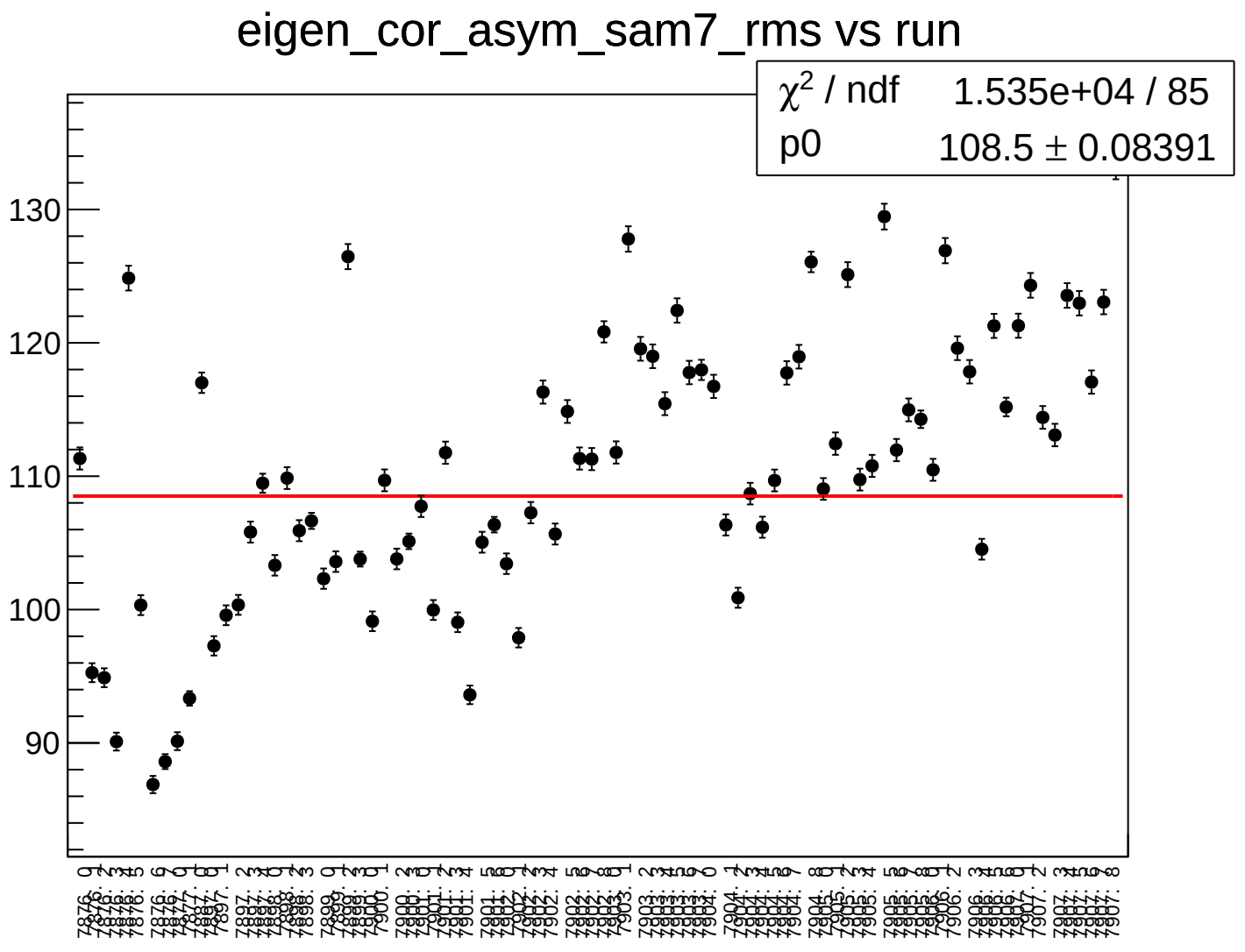

asym_sam7_cor_correction_mean vs run
χ² / ndf 85.41 / 85
p0 −2126 ± 1300
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −2.858
Std Dev 39.27
3
2
1
0
−1
−2

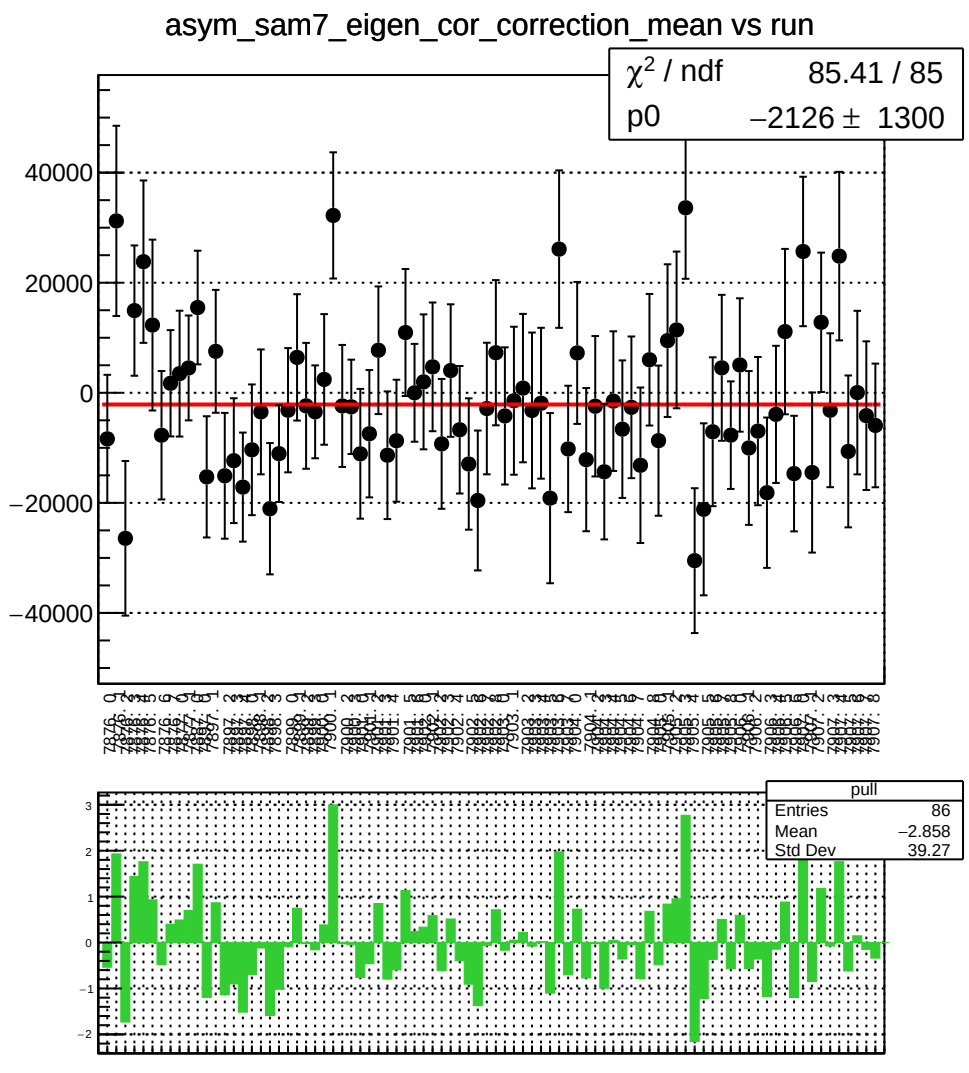

pull1D
Entries 86
Mean 0.0189
Std Dev 0.9964
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

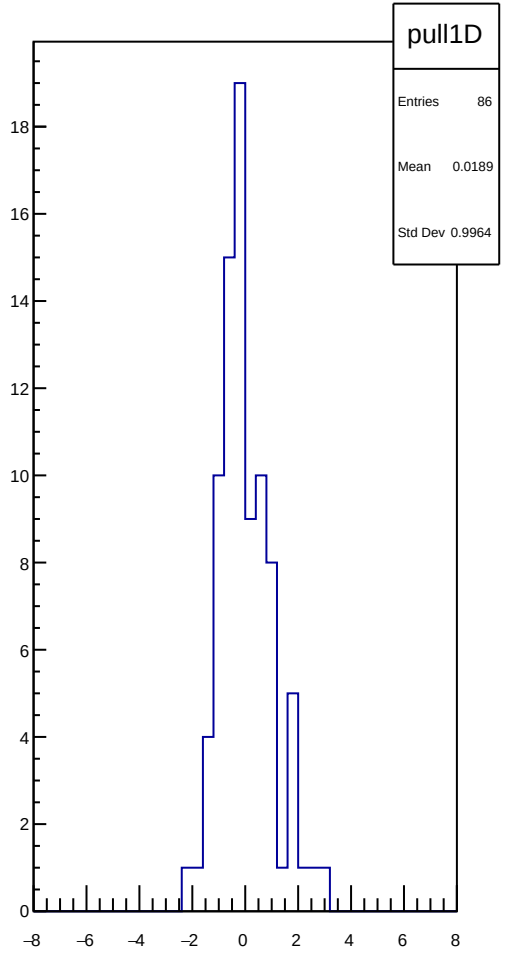

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.557e+04 / 85
p0 1189 ± 0.9191
1700
1600
1500
1400
1300
1200
1100
1000

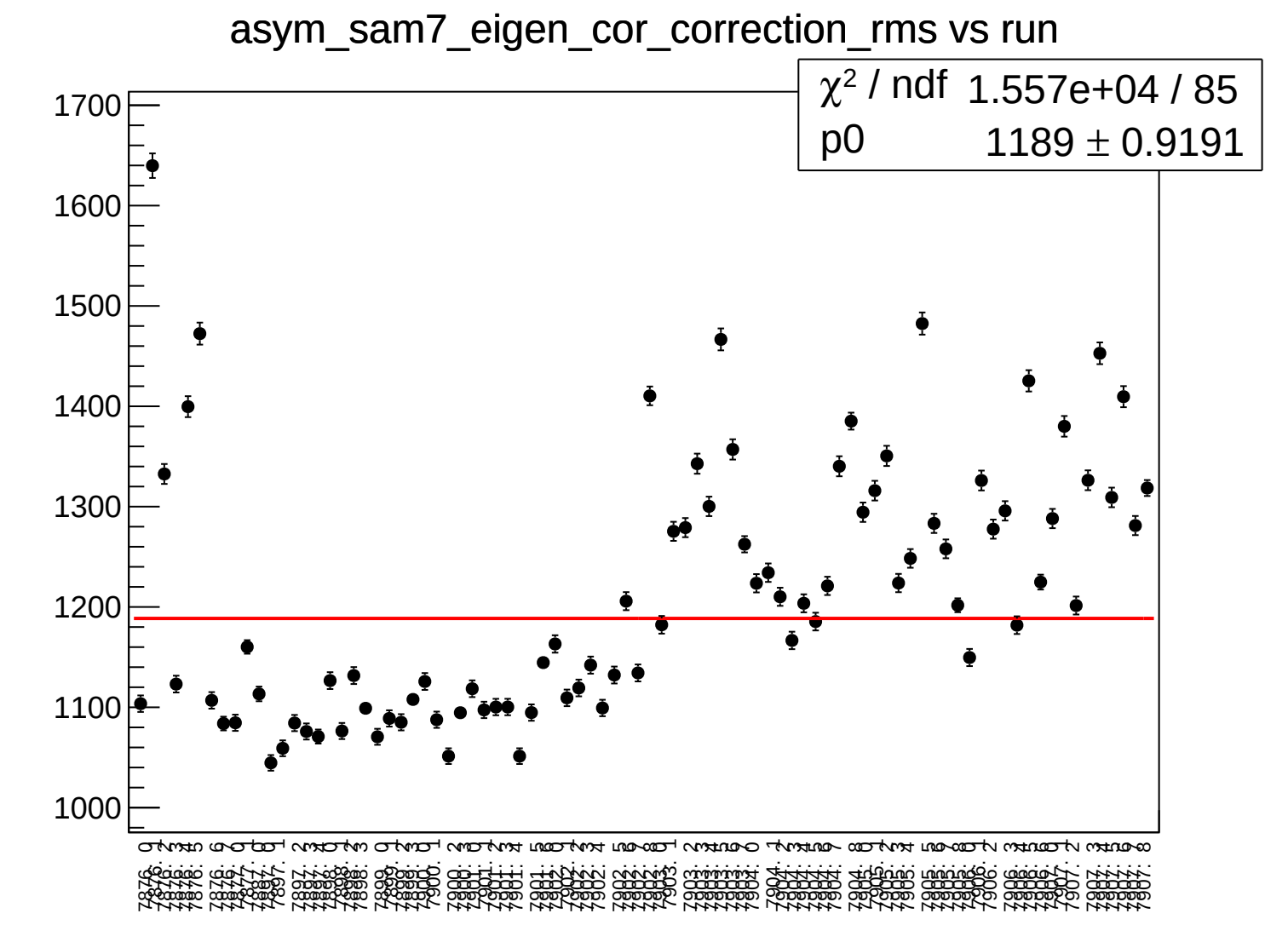

eigen_cor_asym_sam7_mean vs run
χ² / ndf 90.75 / 85
p0 −181.2 ± 118.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 86
Mean 811.6
Std Dev 0
2
1
0
−1
−2
−3

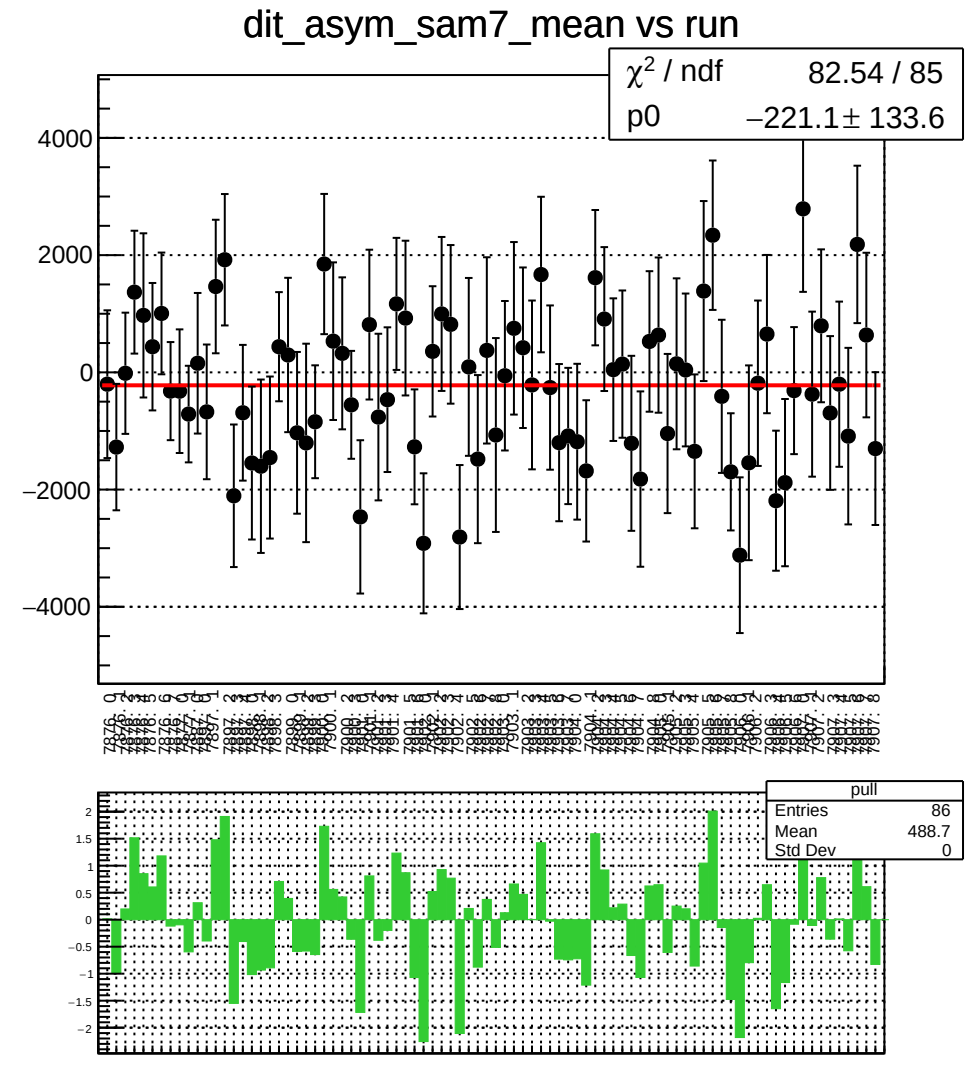

pull1D
Entries 86
Mean −0.00283
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

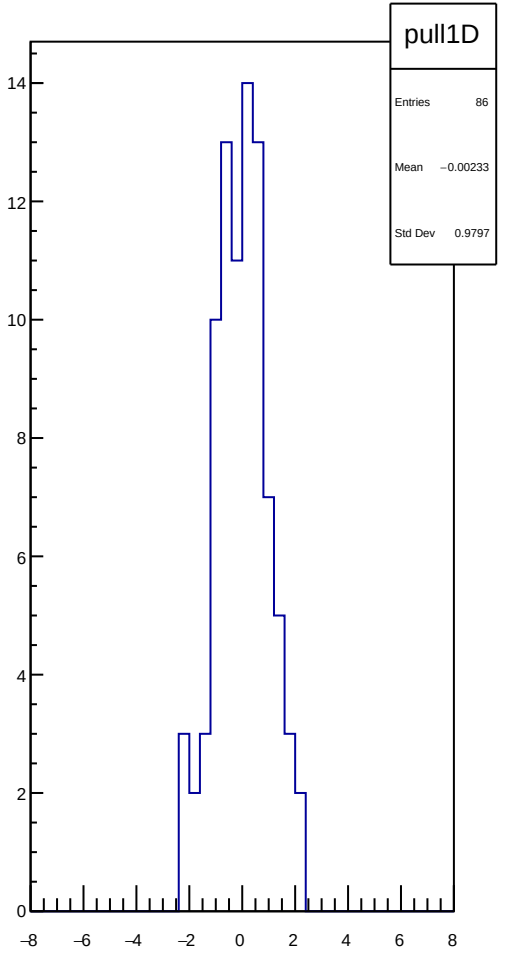

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 1.535e+04 / 85
p0 108.5 ± 0.08391
130
120
110
100
90

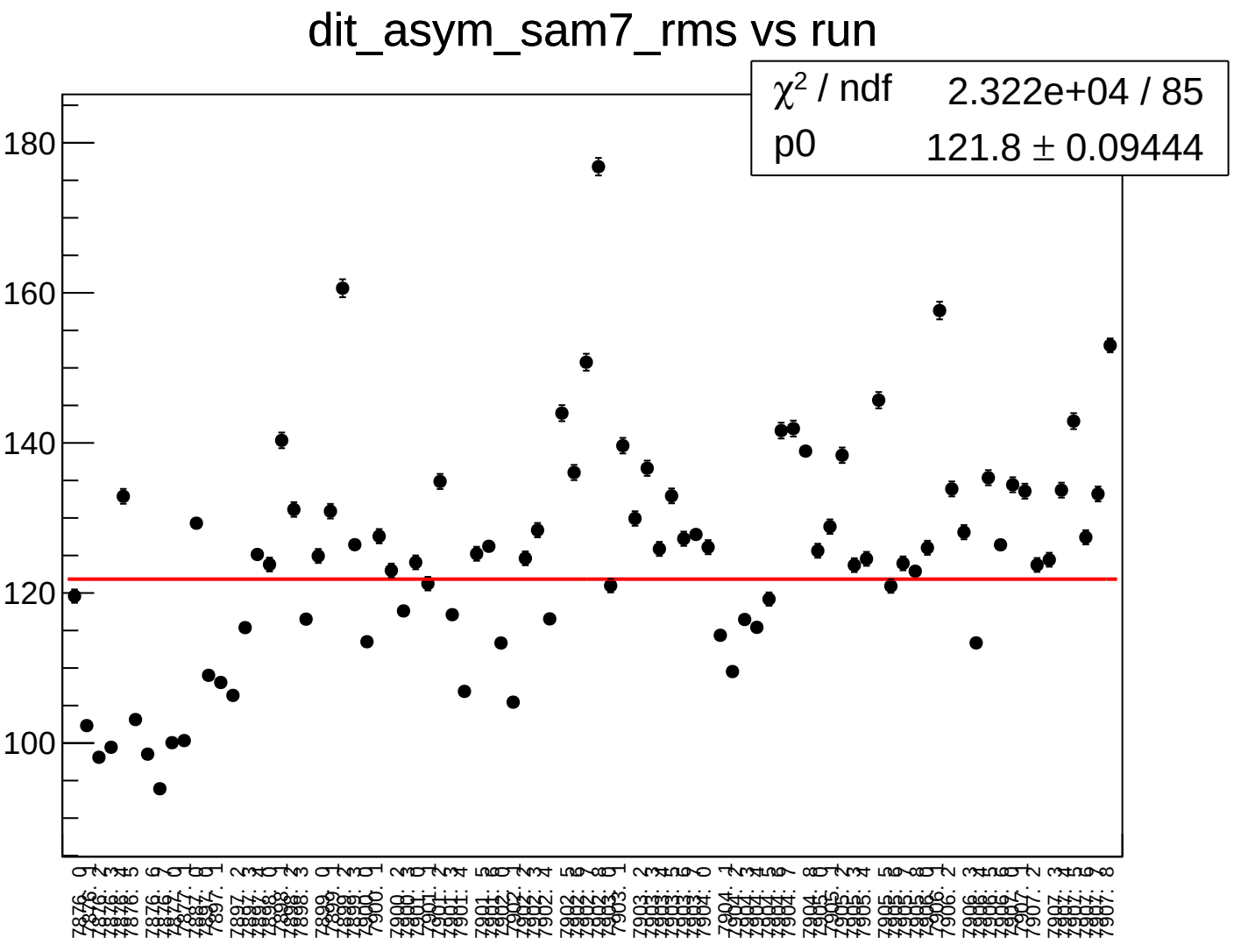

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 85.41 / 85
p0 −2126 ± 1300
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −2.858
Std Dev 39.27
3
2
1
0
−1
−2

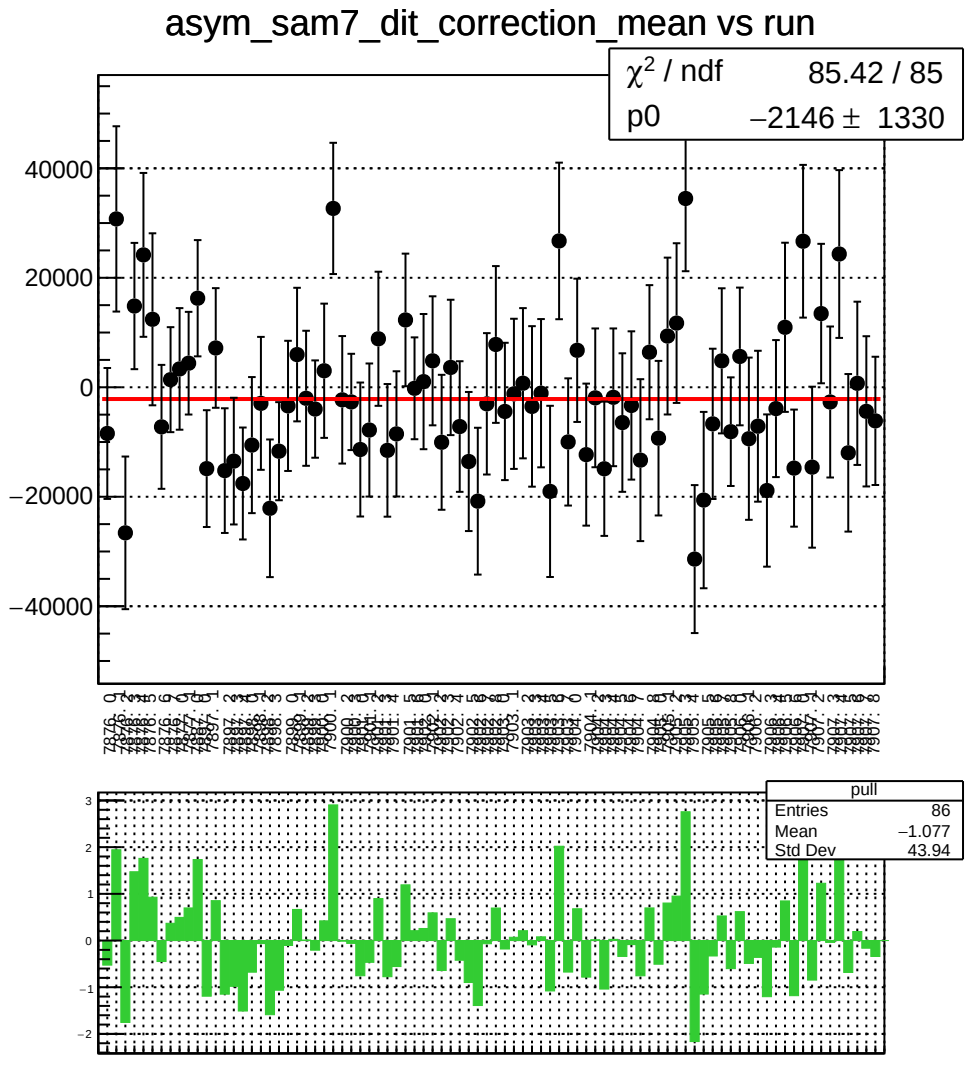

pull1D
Entries 86
Mean 0.0189
Std Dev 0.9964
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

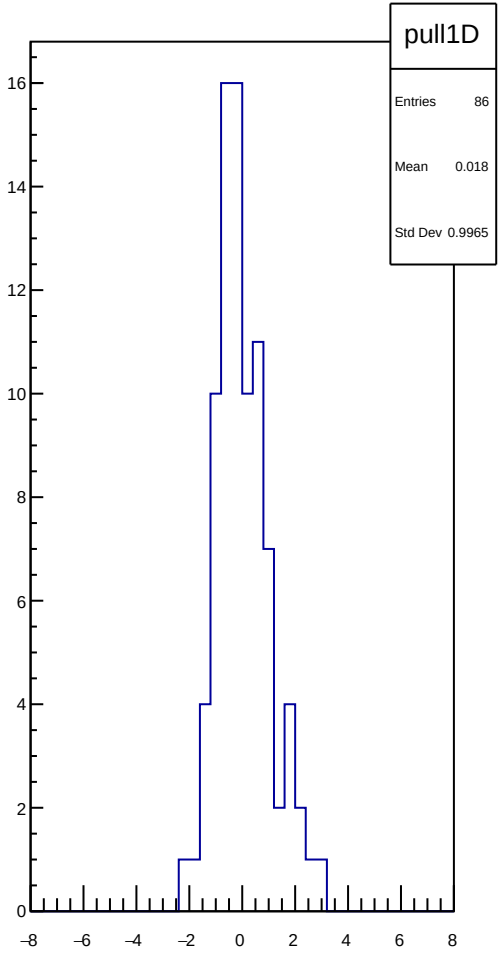

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.557e+04 / 85
p0 1189 ± 0.9191
1700
1600
1500
1400
1300
1200
1100
1000

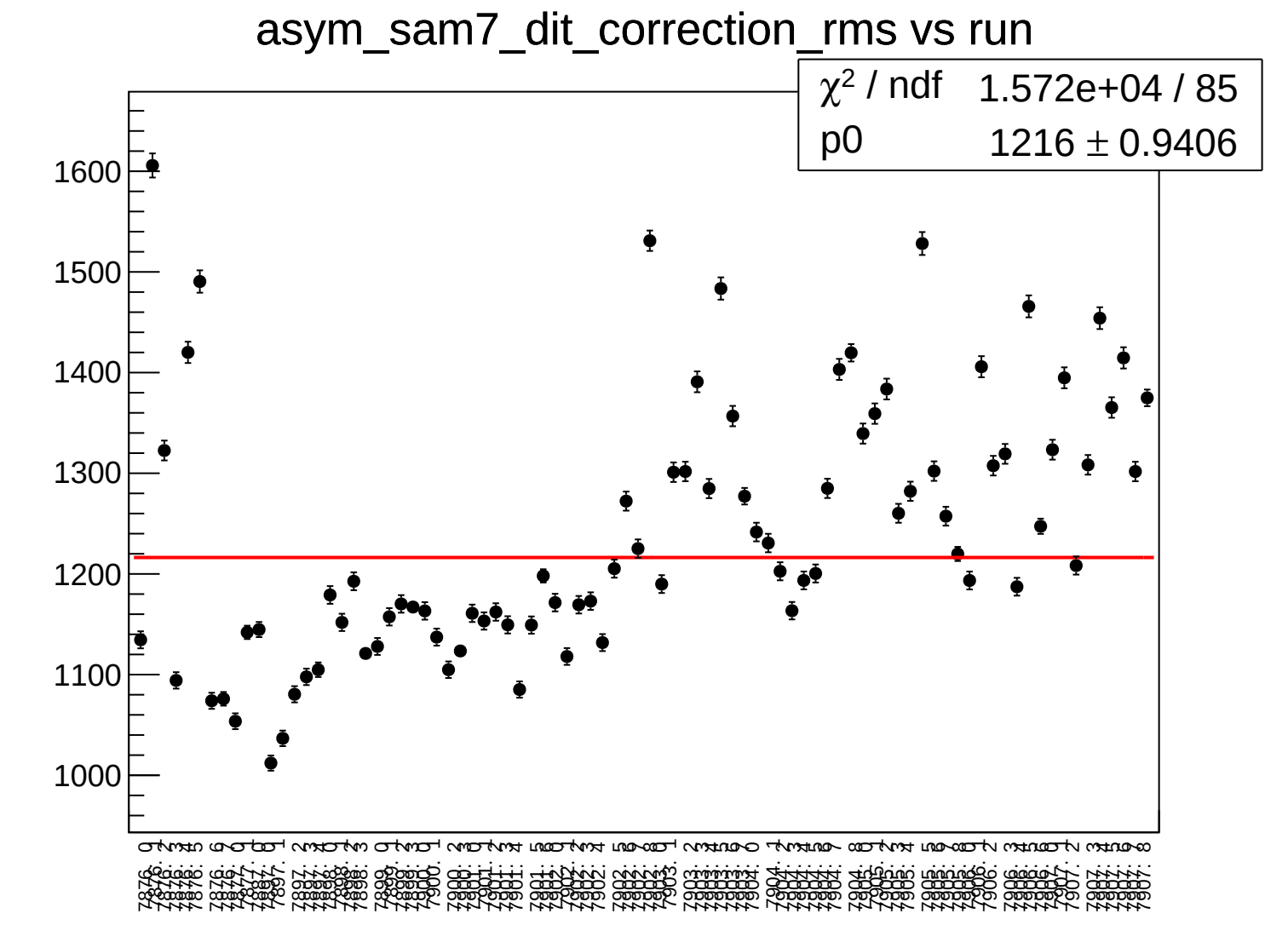

dit_asym_sam7_mean vs run
χ^2 / ndf 82.54 / 85
p0 −221.1± 133.6
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 488.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

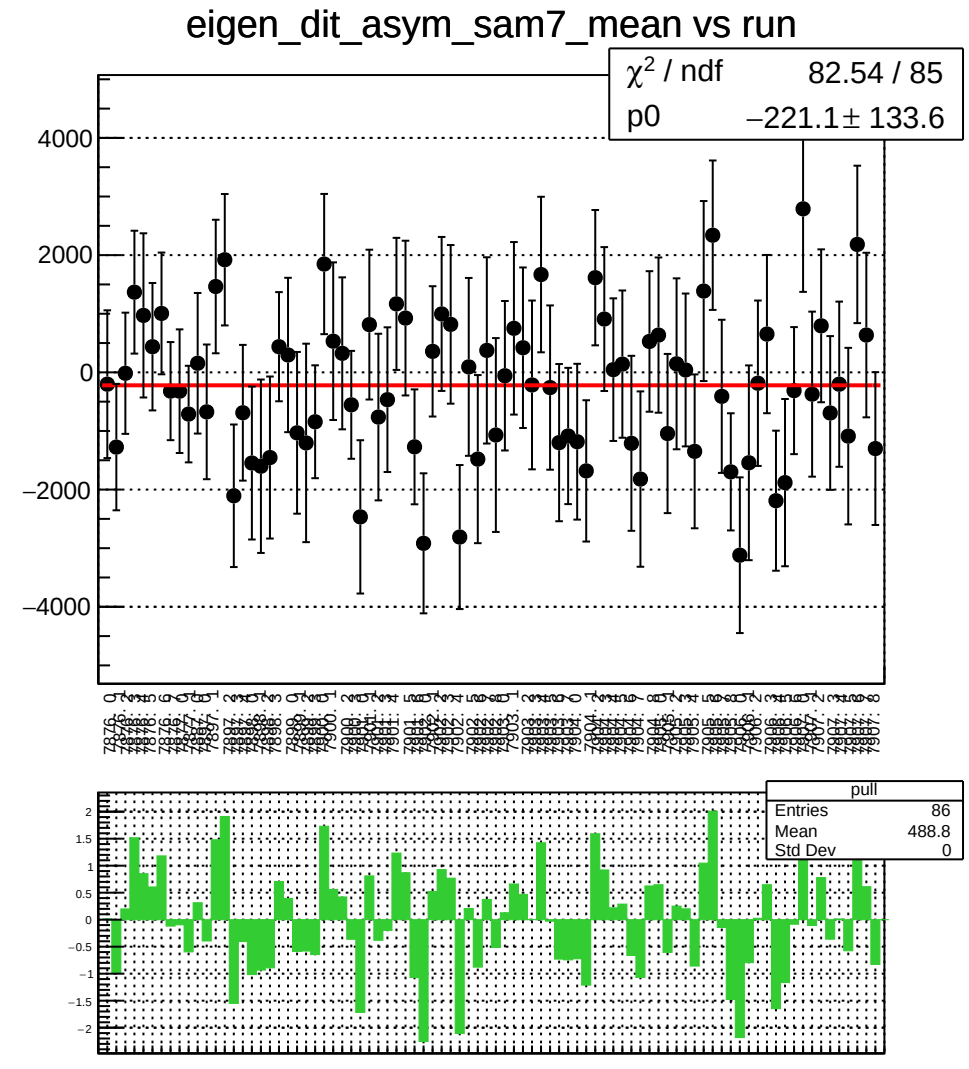

pull1D
Entries 86
Mean −0.00233
Std Dev 0.9797
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

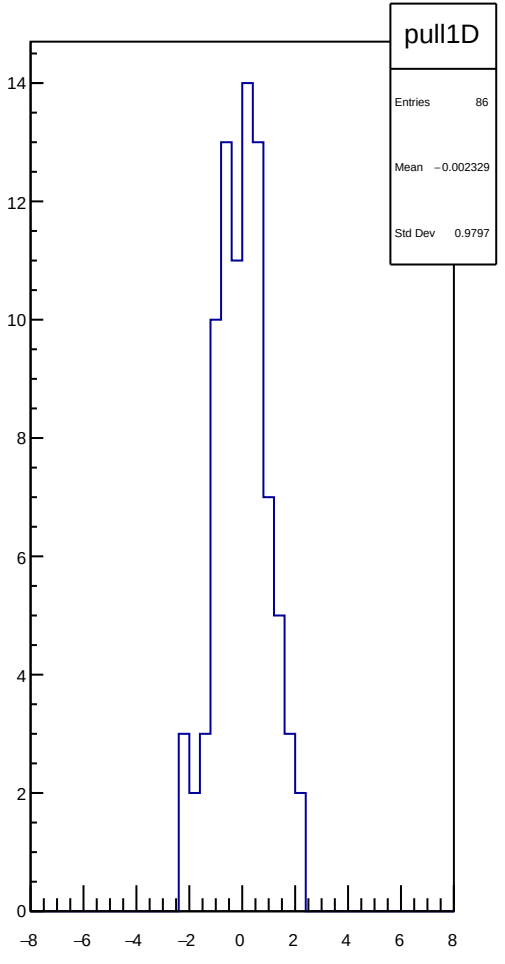

dit_asym_sam7_rms vs run
χ^2 / ndf 2.322e+04 / 85
p0 121.8 ± 0.09444
180
160
140
120
100

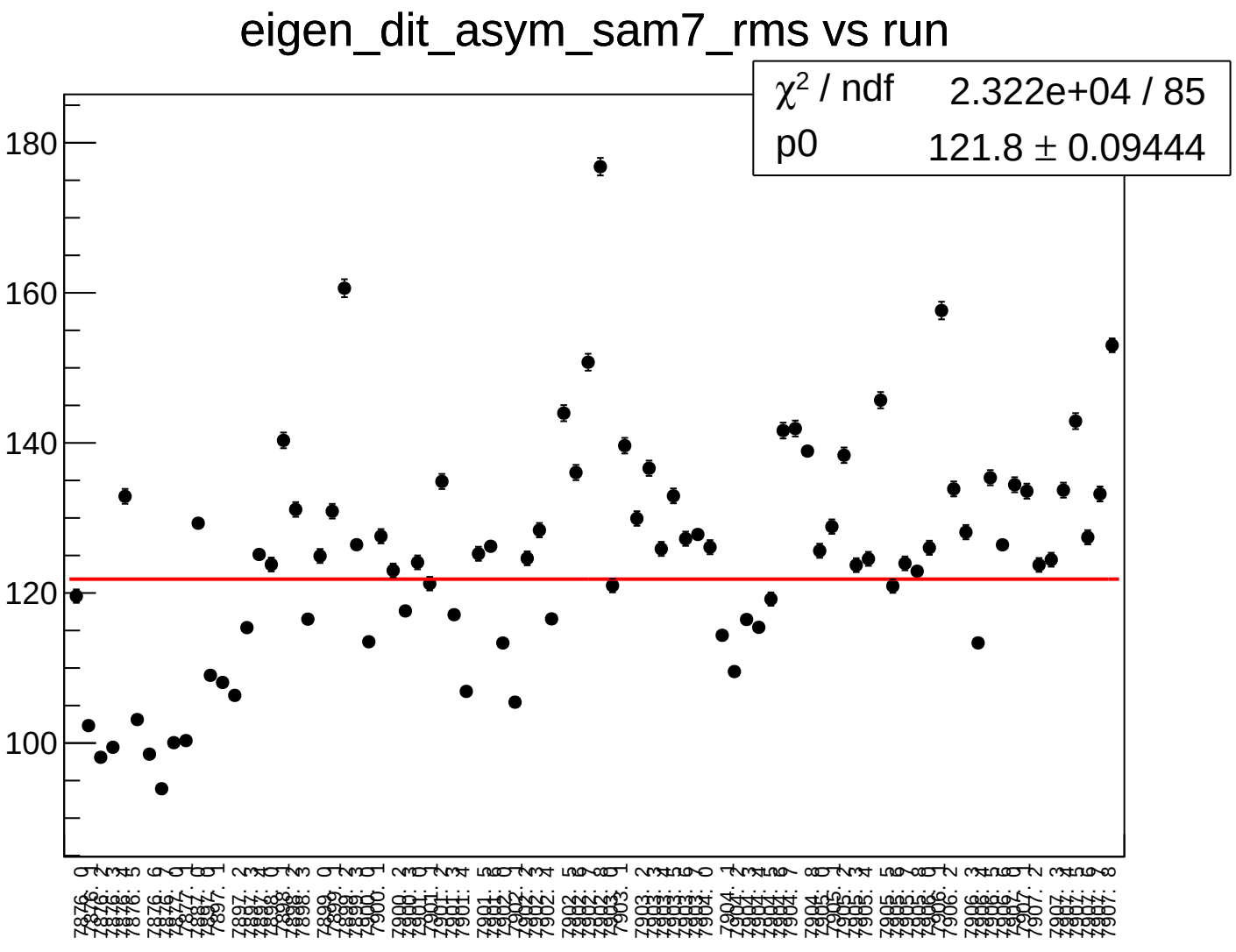

asym_sam7_dit_correction_mean vs run
χ² / ndf 85.42 / 85
p0 −2146 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1.077
Std Dev 43.94
3
2
1
0
−1
−2

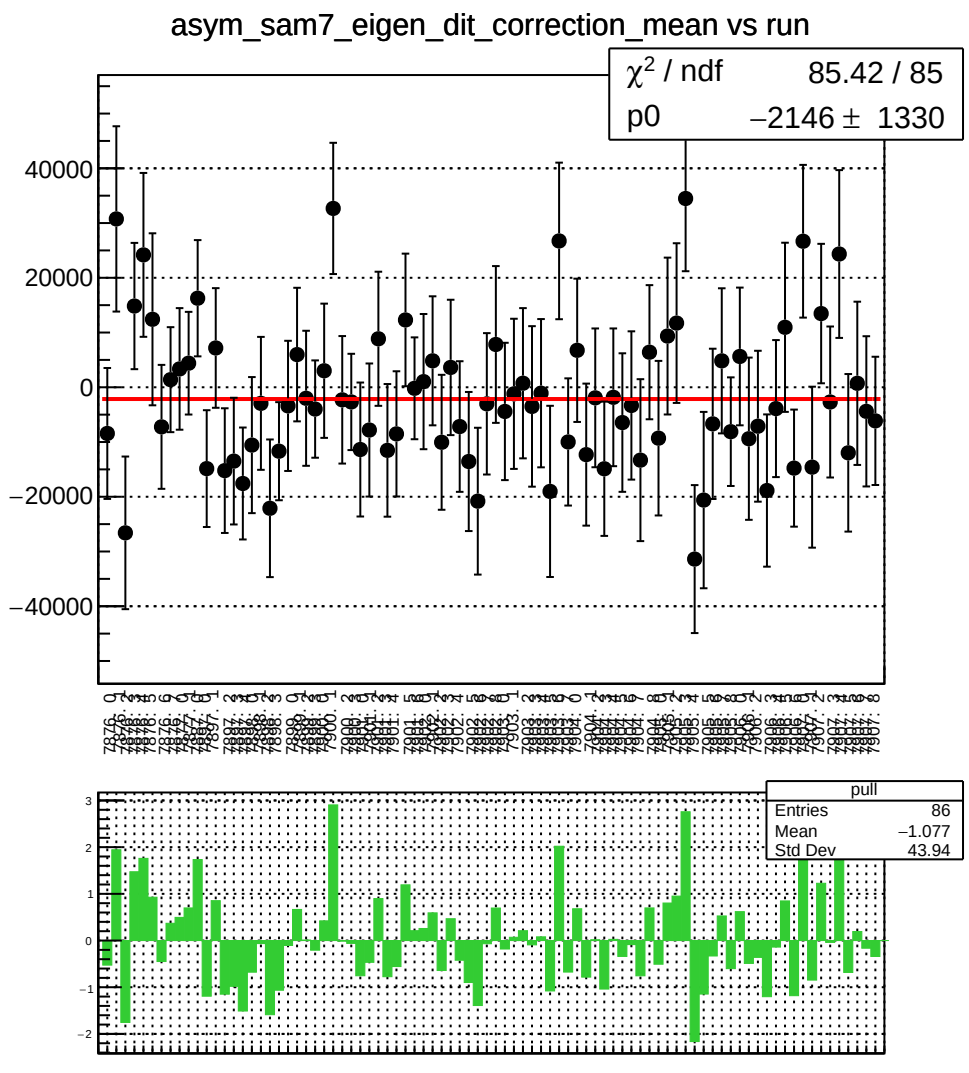

pull1D
Entries 86
Mean 0.018
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

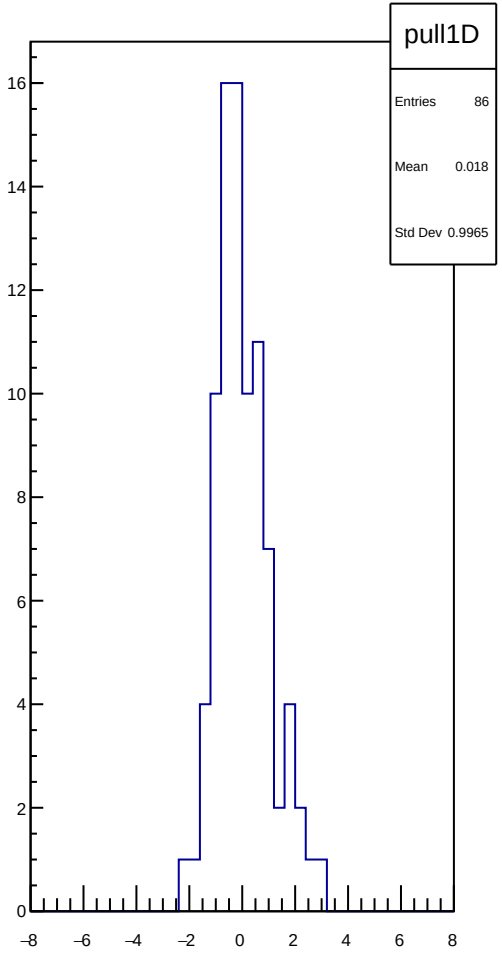

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.572e+04 / 85
p0 1216 ± 0.9406
1600
1500
1400
1300
1200
1100
1000

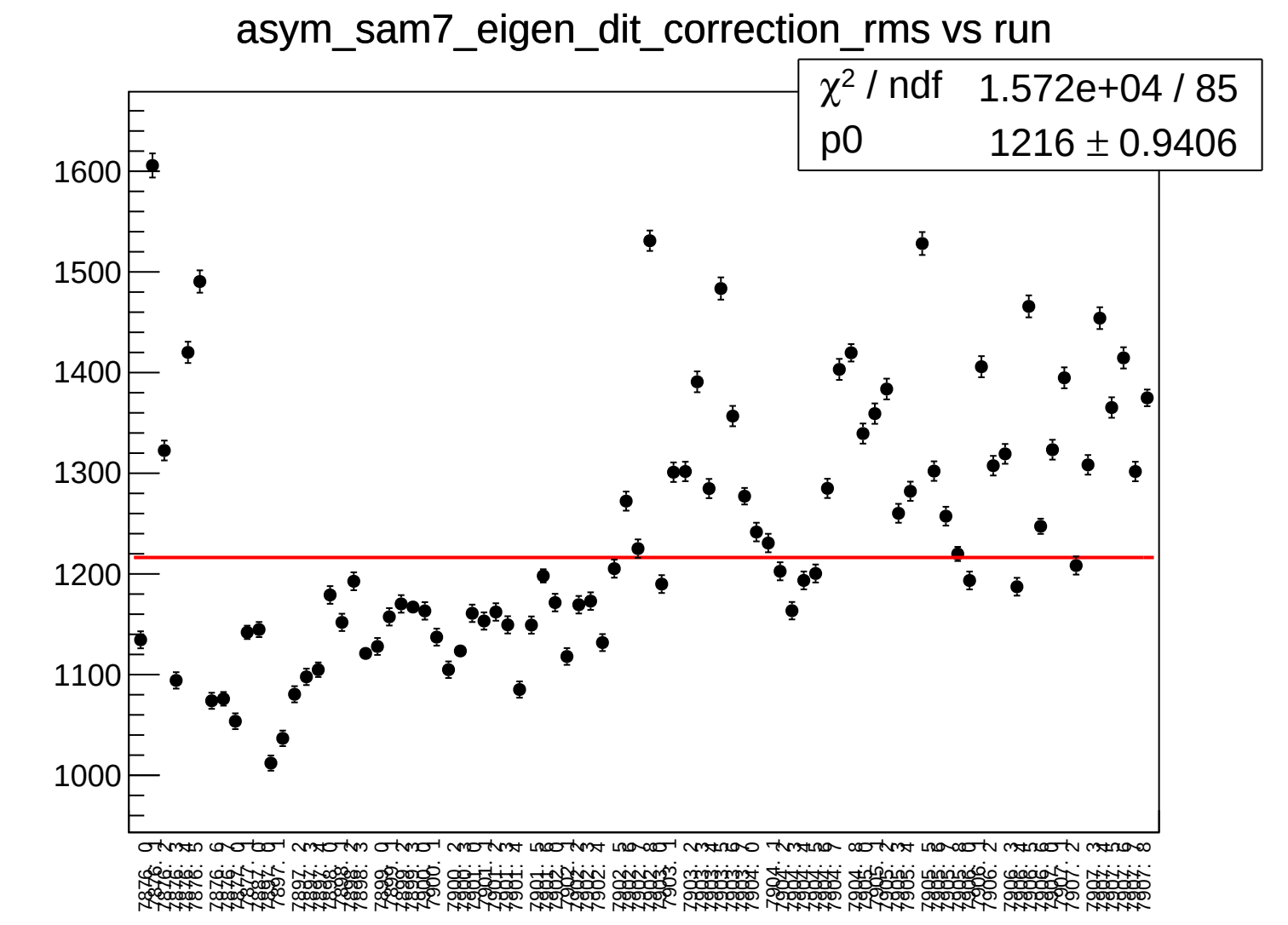

eigen_dit_asym_sam7_mean vs run
χ² / ndf 82.54 / 85
p0 −221.1± 133.6
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 488.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

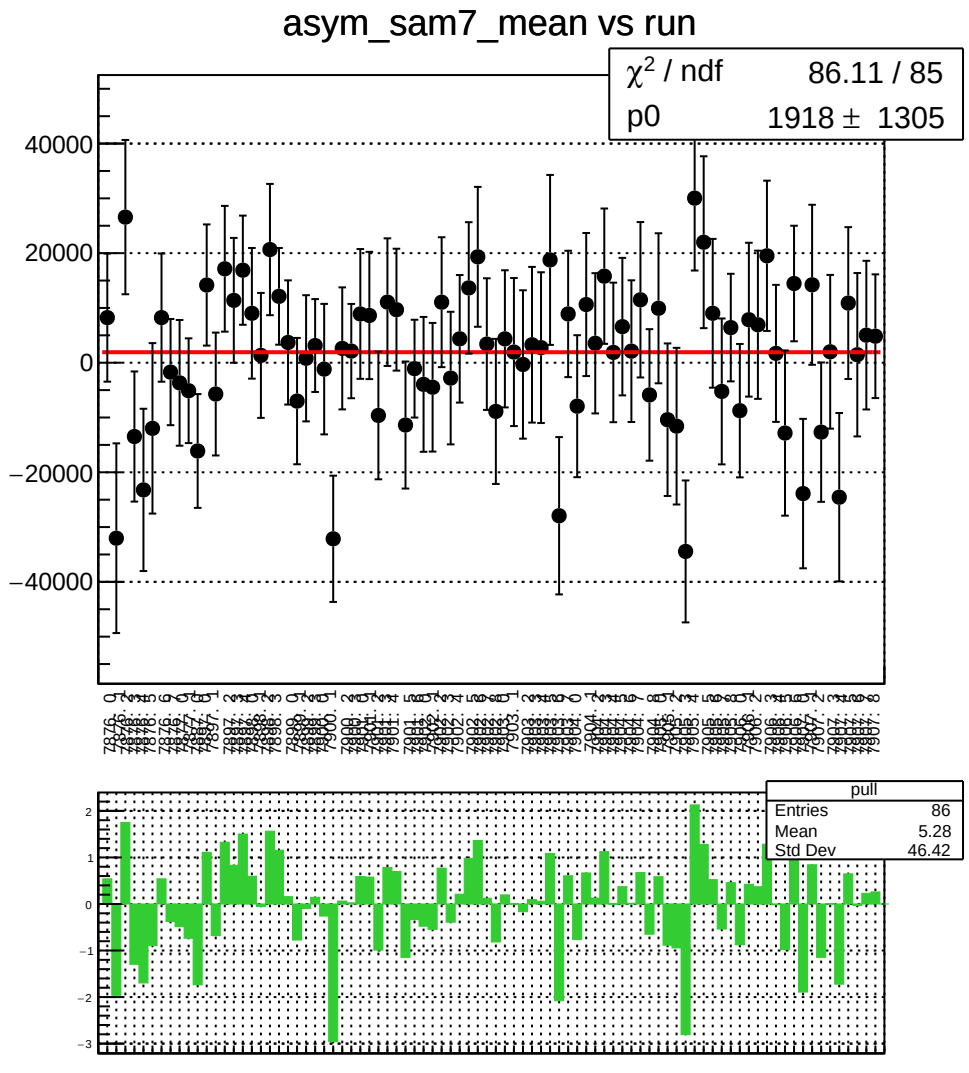

pull1D
Entries 86
Mean −0.002329
Std Dev 0.9797
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

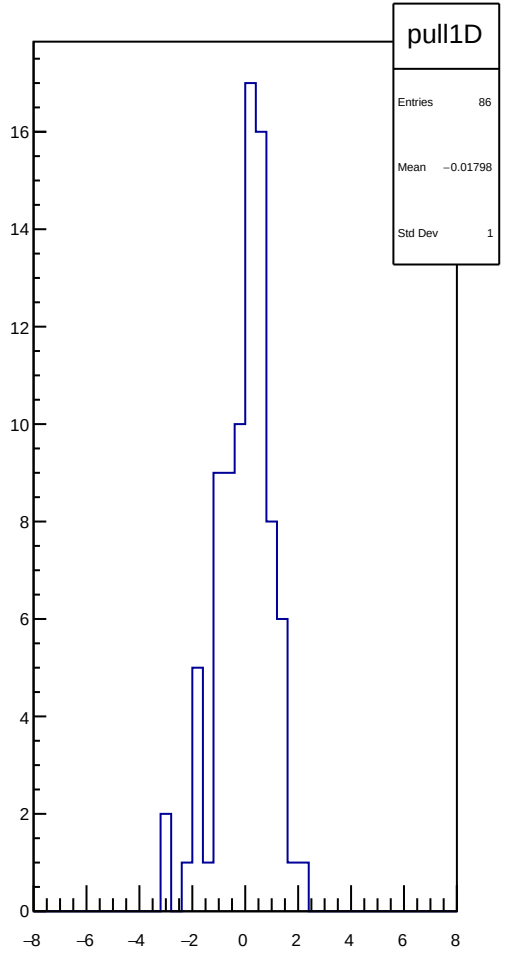

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 2.322e+04 / 85
p0 121.8 ± 0.09444
180
160
140
120
100

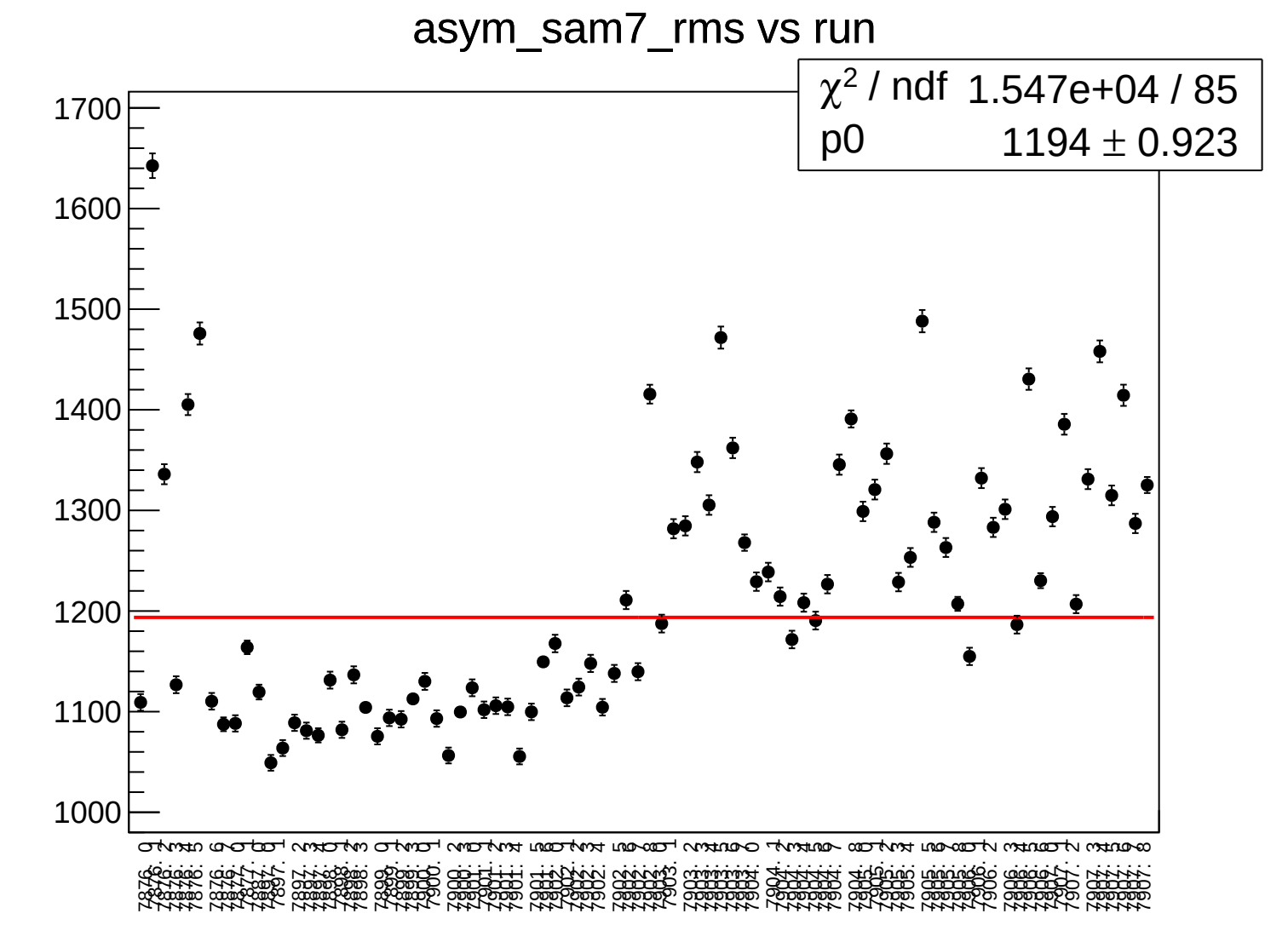

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 85.42 / 85
p0 −2146 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −1.077
Std Dev 43.94
3
2
1
0
−1
−2

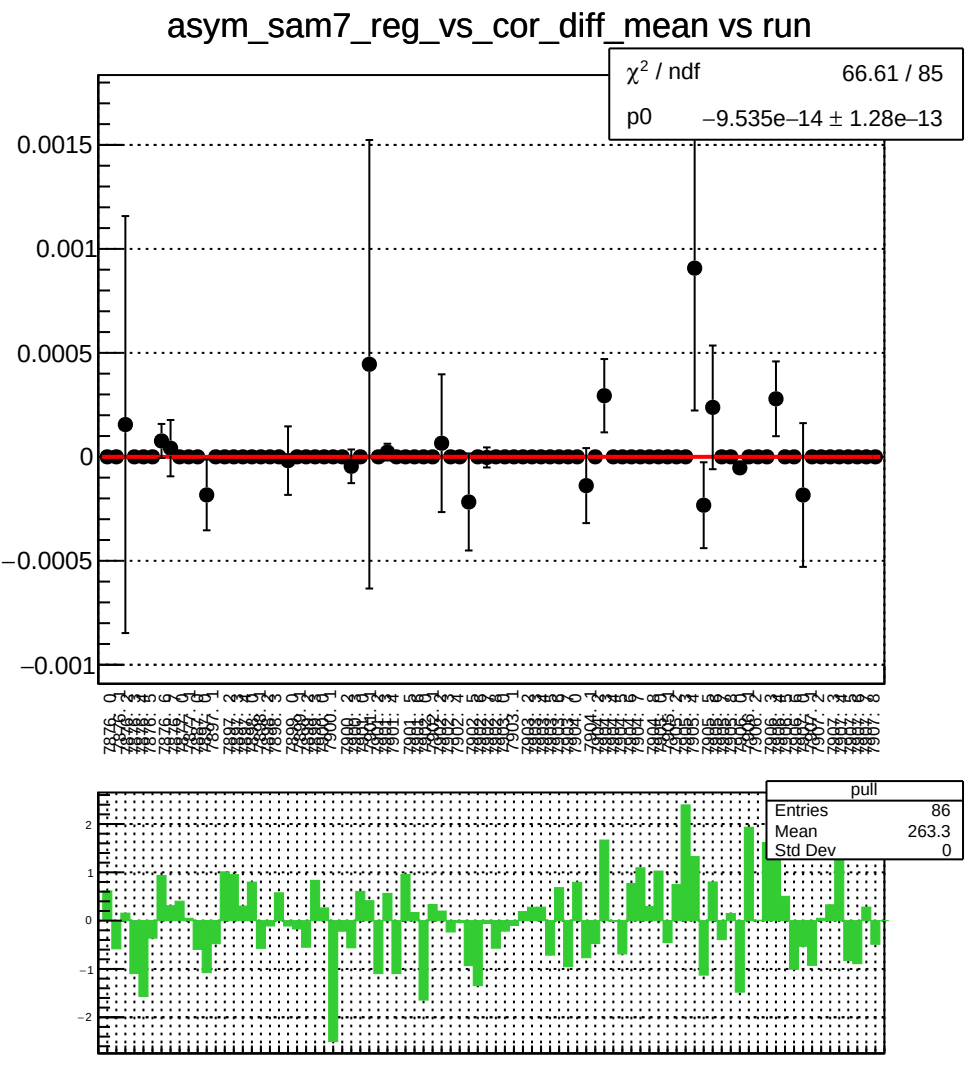

pull1D
Entries 86
Mean 0.018
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

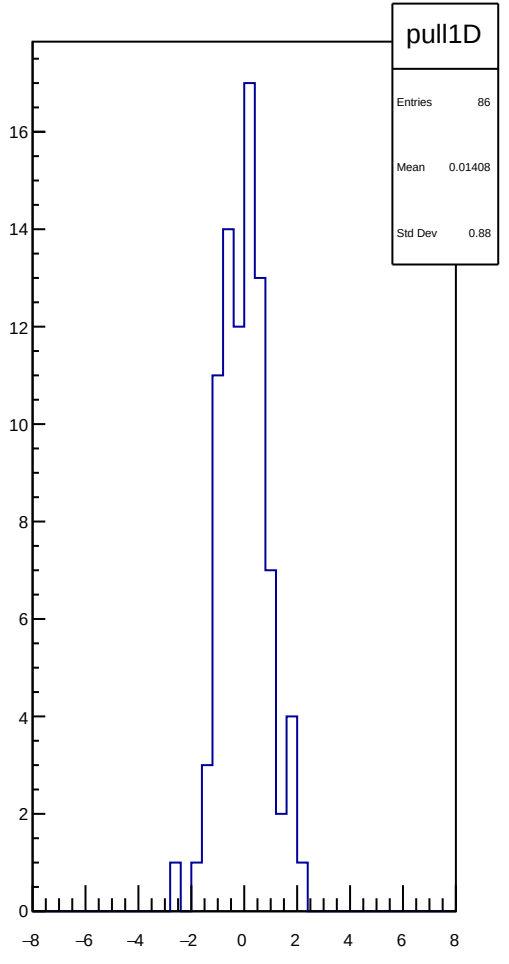

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.572e+04 / 85
p0 1216 ± 0.9406
1600
1500
1400
1300
1200
1100
1000

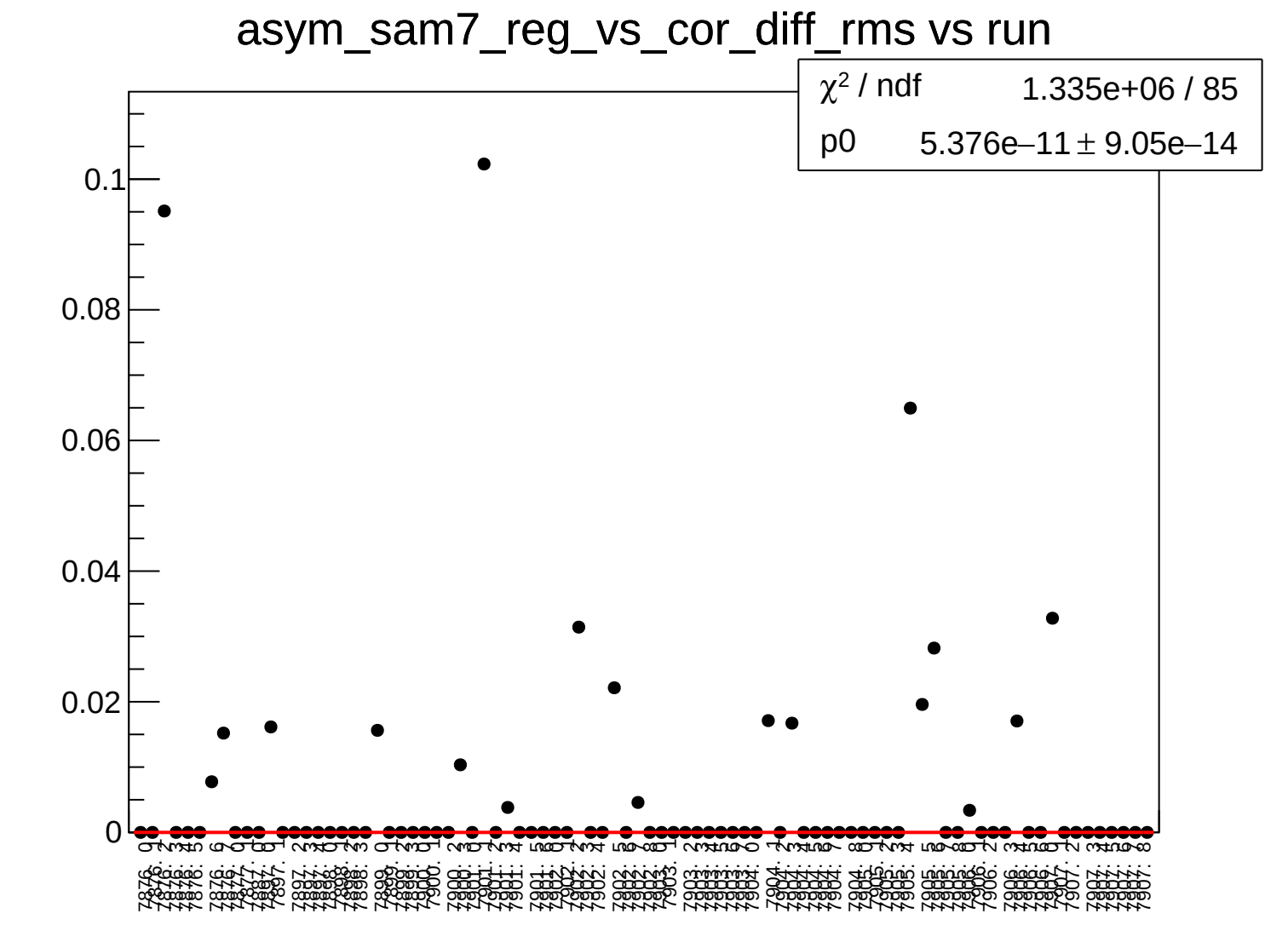

asym_sam7_mean vs run
χ² / ndf 86.11 / 85
p0 1918 ± 1305
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 5.28
Std Dev 46.42
2
1
0
−1
−2
−3

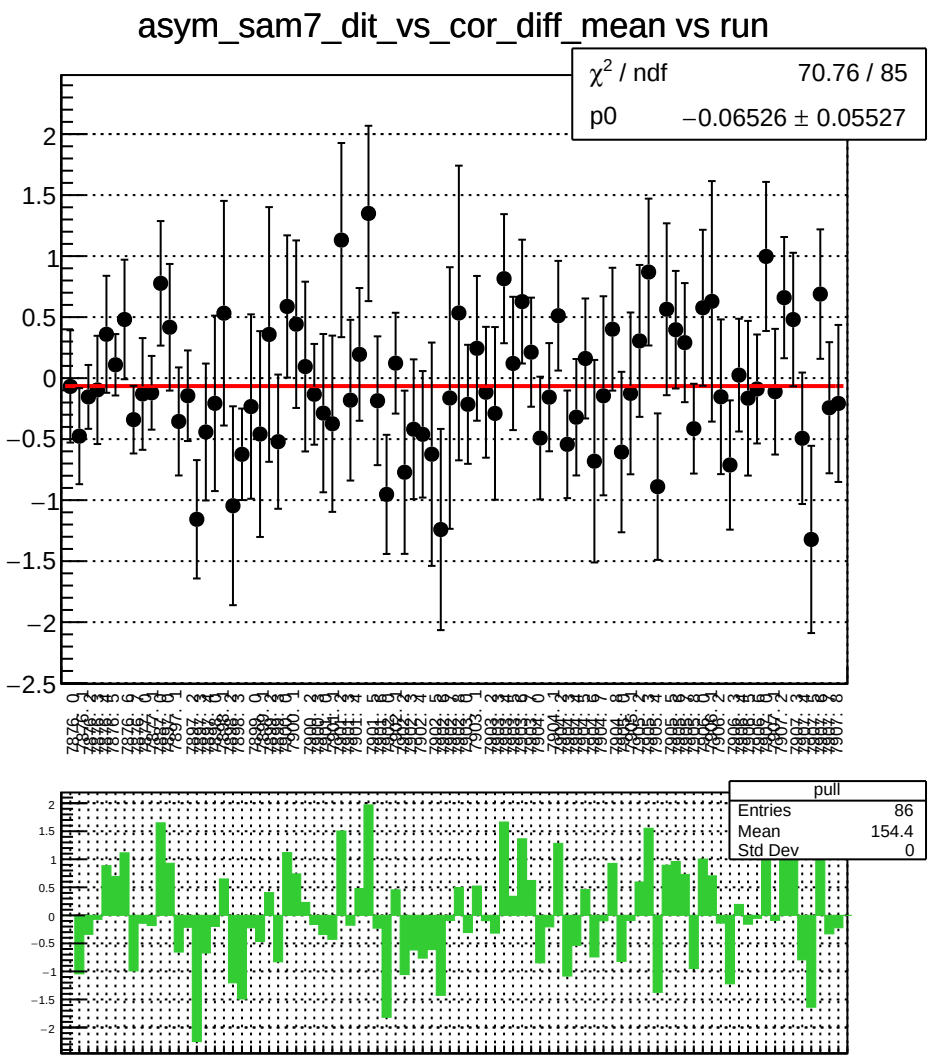

pull1D
Entries 86
Mean −0.01798
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

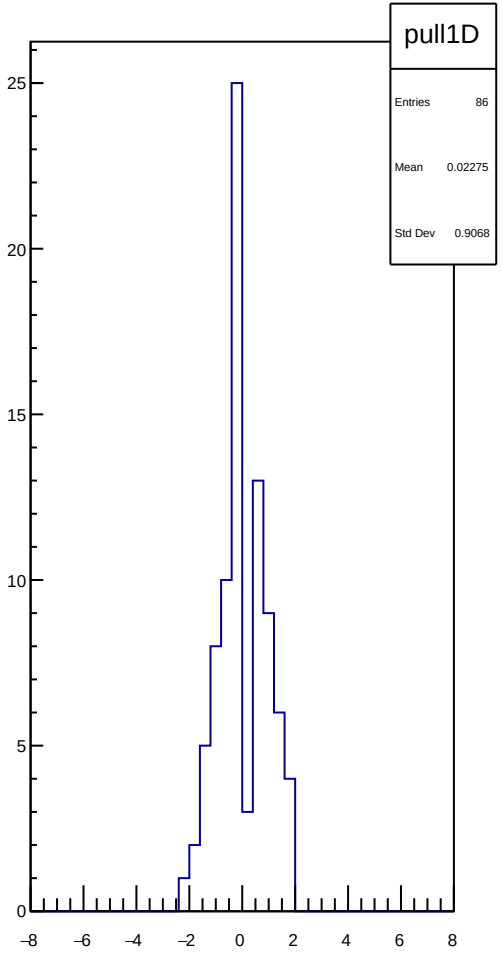

asym_sam7_rms vs run
χ² / ndf 1.547e+04 / 85
p0 1194 ± 0.923
1700
1600
1500
1400
1300
1200
1100
1000

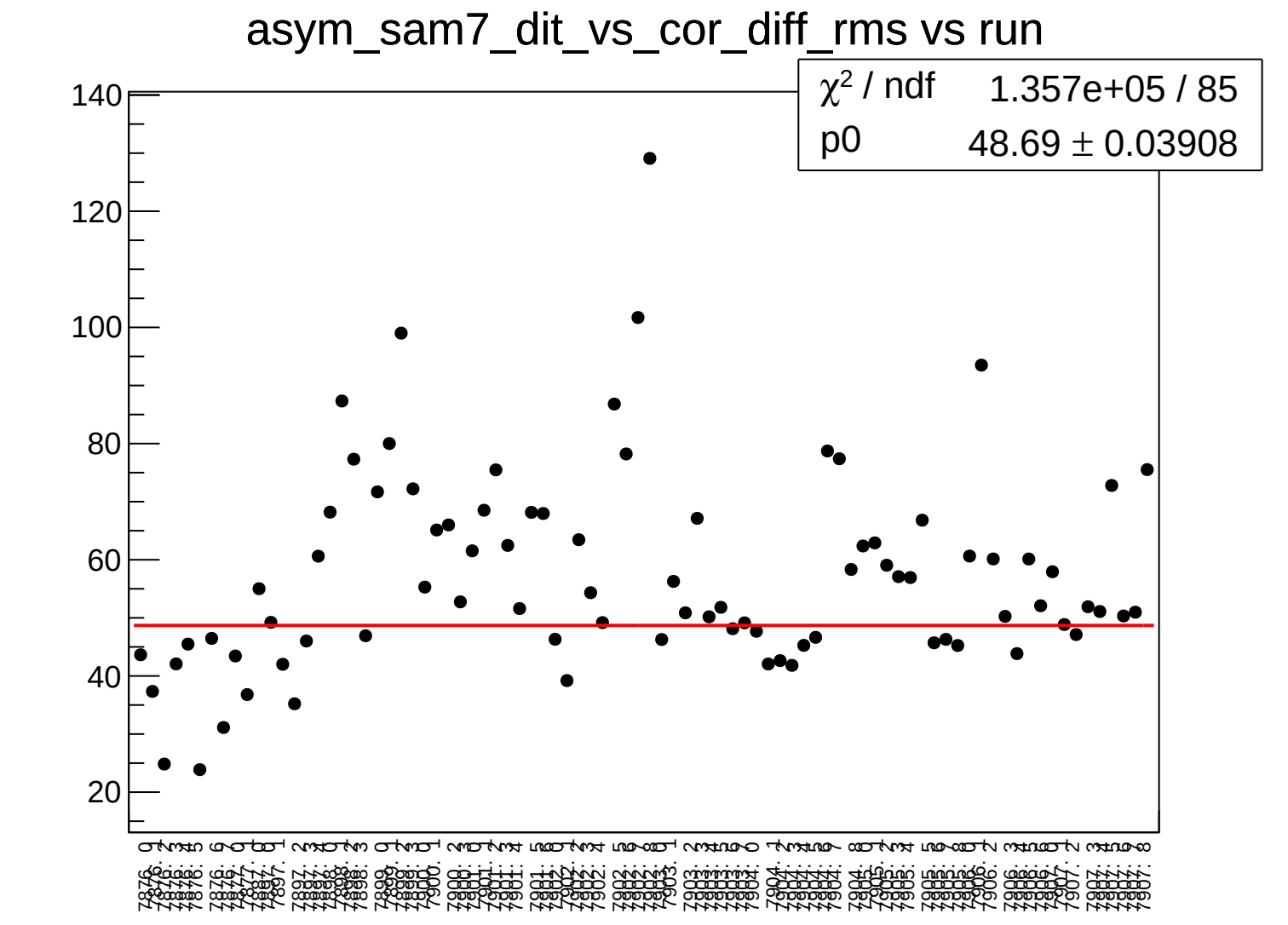

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 66.61 / 85
p0 −9.535e−14 ± 1.28e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 263.3
Std Dev 0
2
1
0
−1
−2

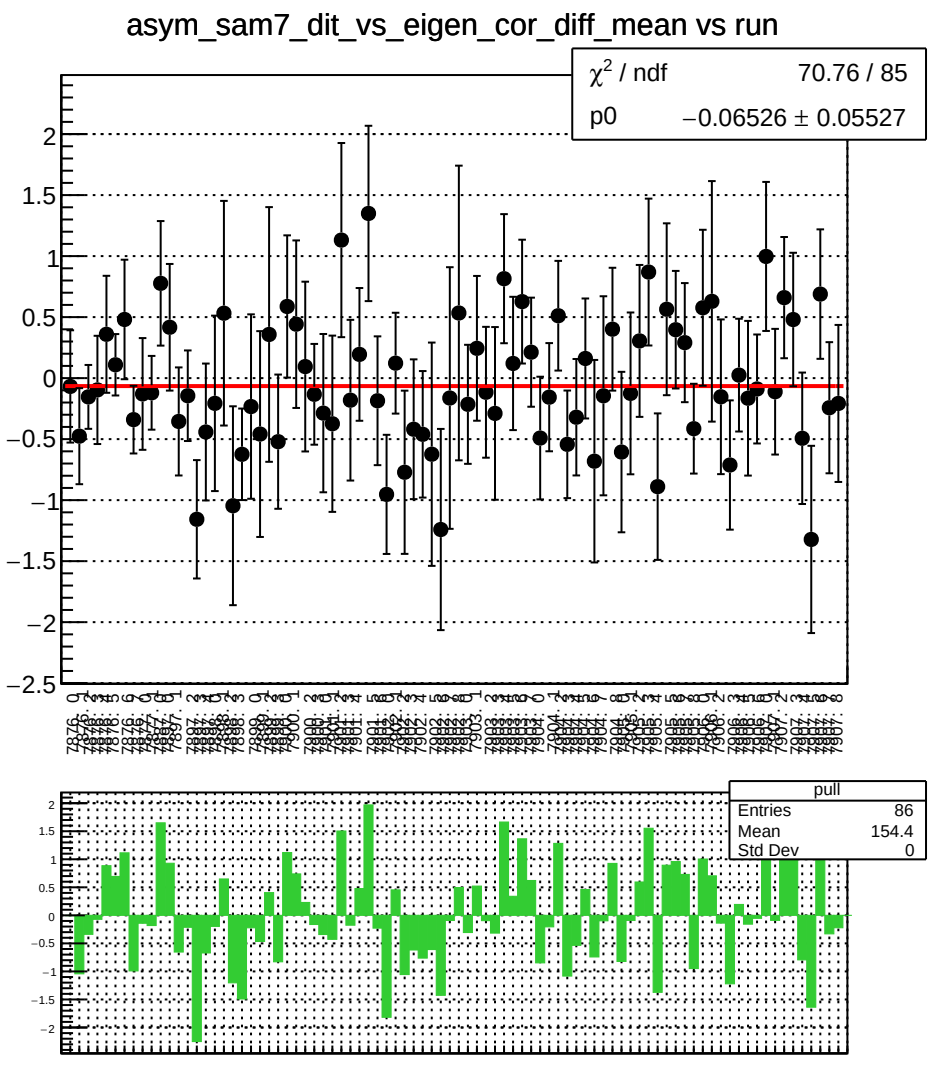

pull1D
Entries 86
Mean 0.01408
Std Dev 0.88
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

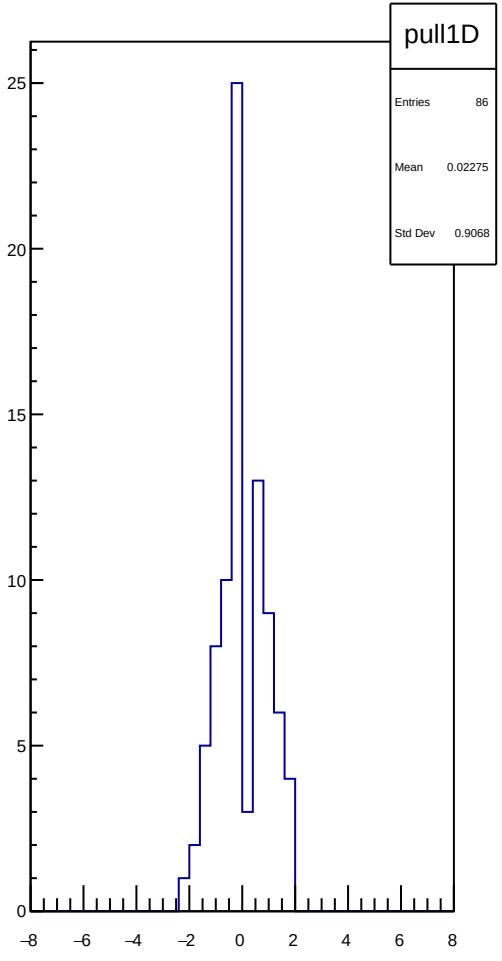

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.335e+06 / 85
p0 5.376e−11 ± 9.05e−14
0.1
0.08
0.06
0.04
0.02
0

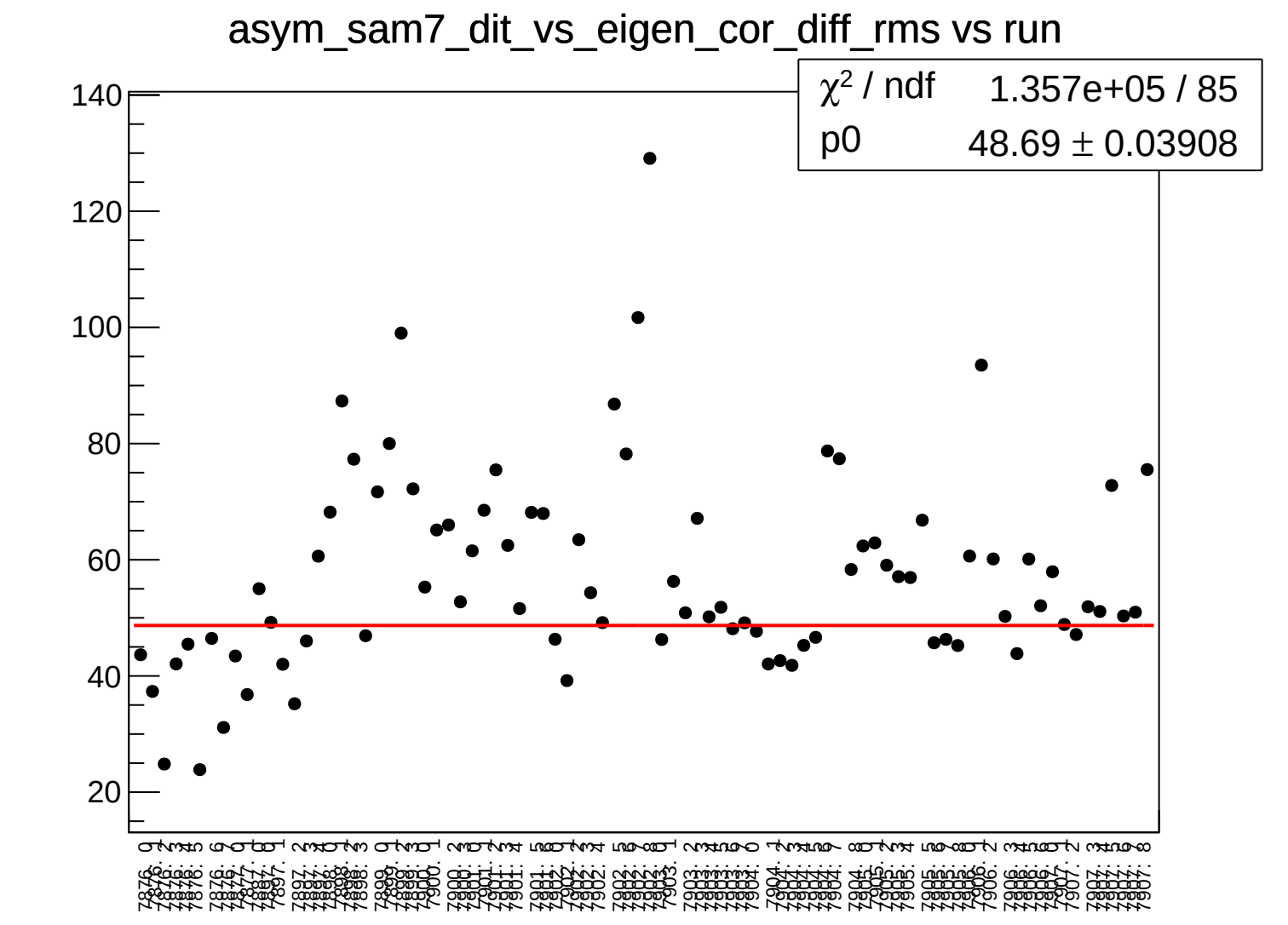

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 70.76 / 85
p0 −0.06526 ± 0.05527
pull
Entries 86
Mean 154.4
Std Dev 0

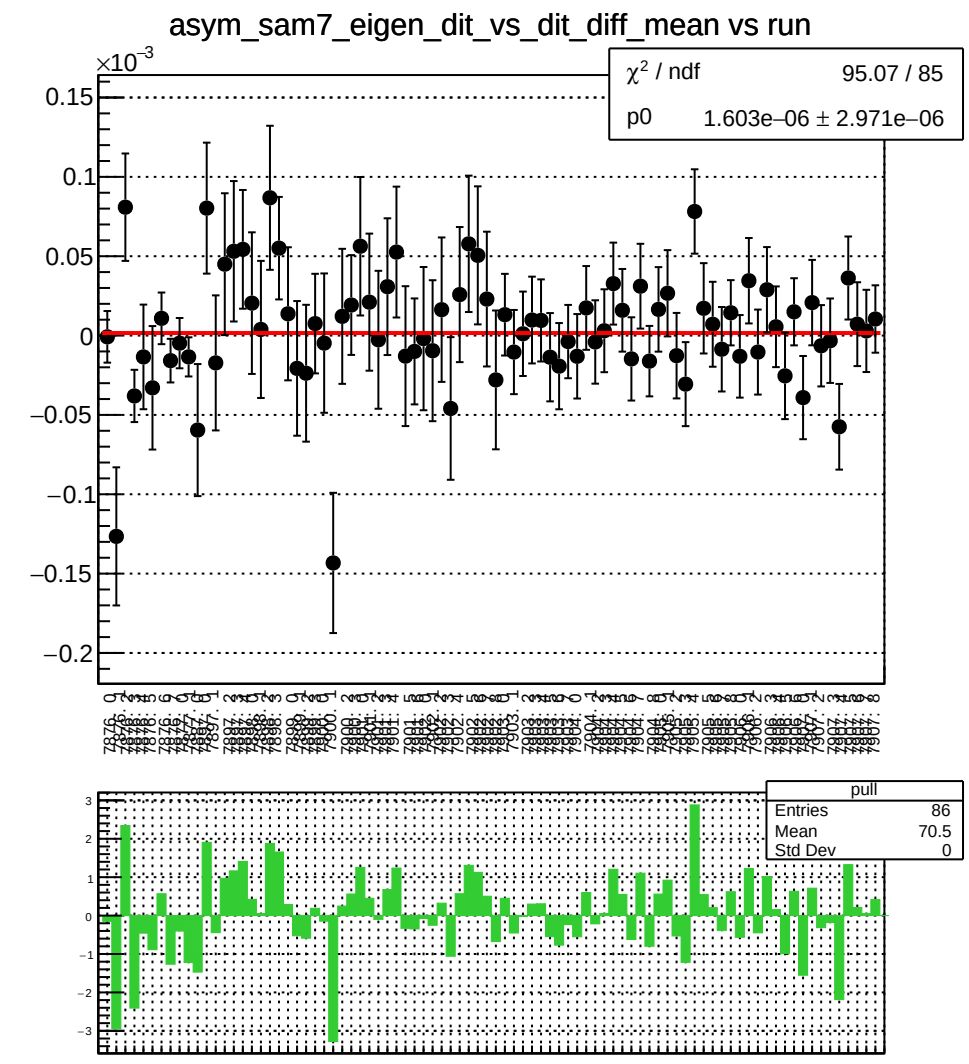

pull1D
Entries 86
Mean 0.02275
Std Dev 0.9068

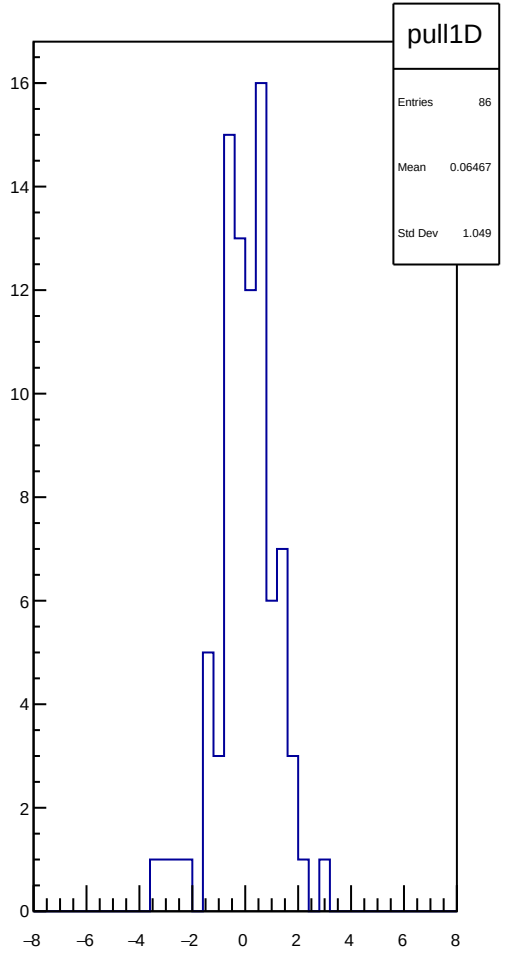

asym_sam7_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.357e+05 / 85
p0 48.69 ± 0.03908
140
120
100
80
60
40
20

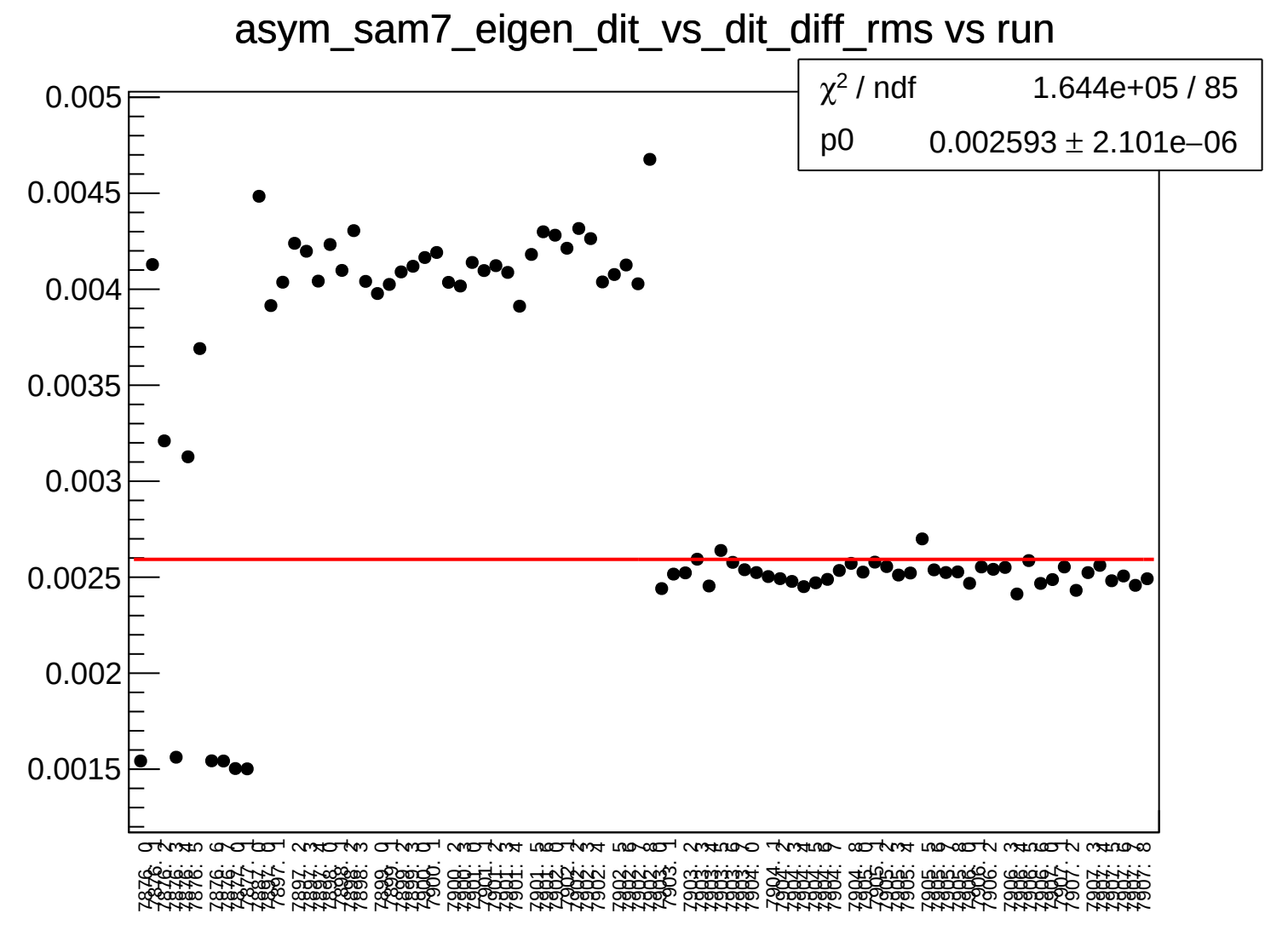

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.76 / 85
p0 −0.06526 ± 0.05527
pull
Entries 86
Mean 154.4
Std Dev 0

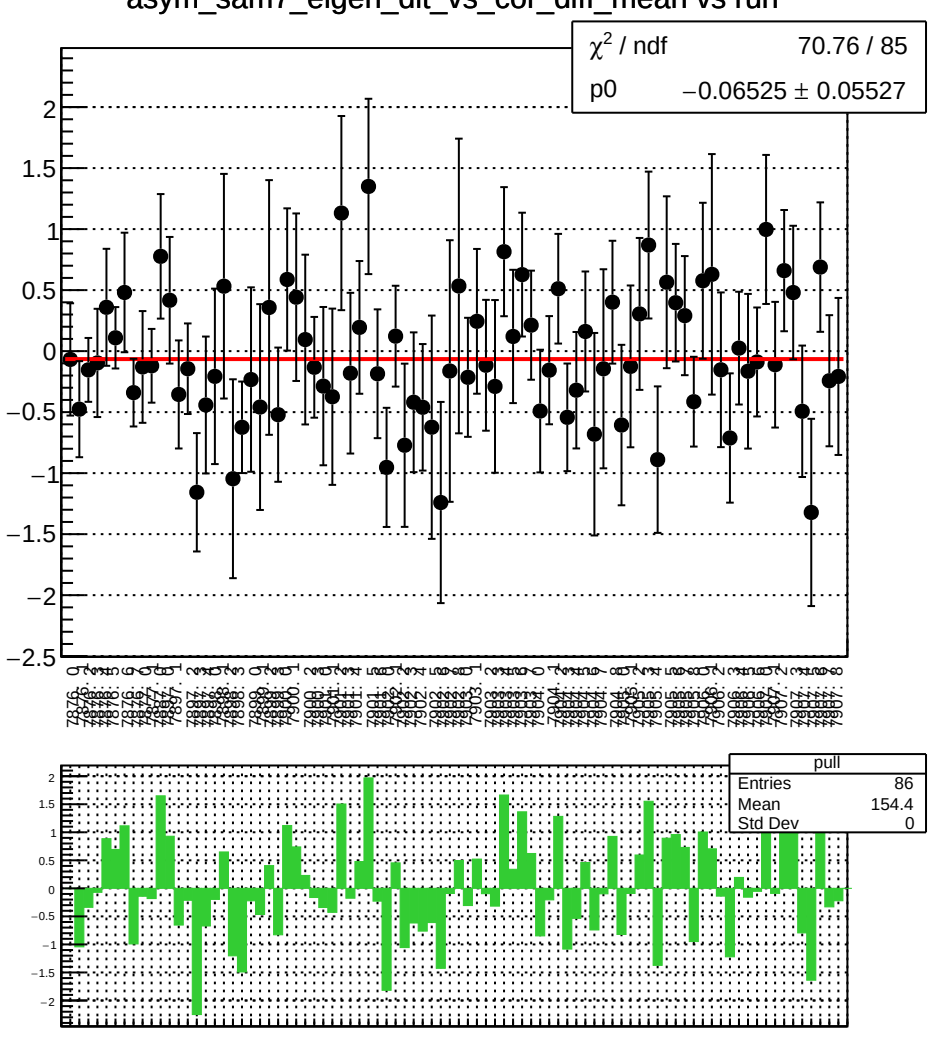

pull1D
Entries 86
Mean 0.02275
Std Dev 0.9068

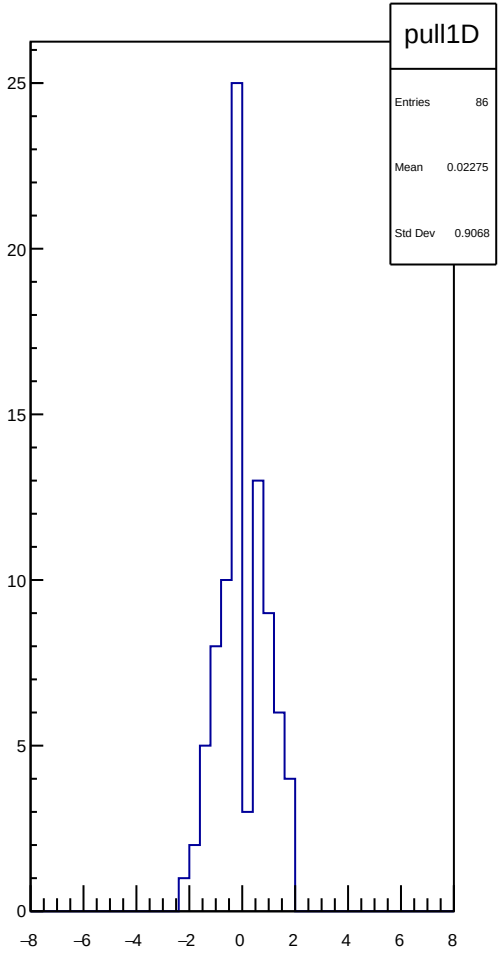

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 85
p0 48.69 ± 0.03908
140
120
100
80
60
40
20

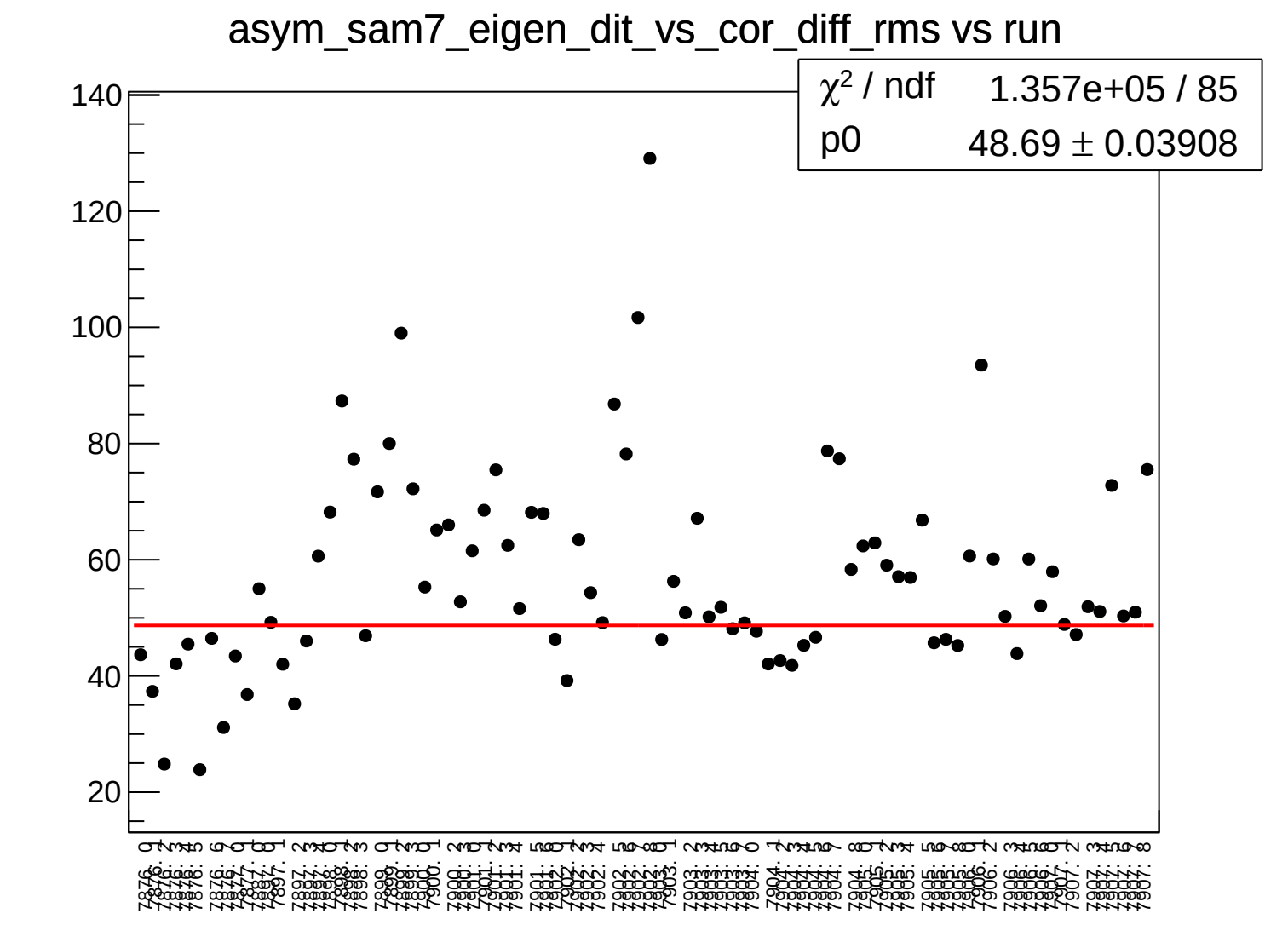

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.07 / 85
p0 1.603e−06 ± 2.971e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 86
Mean 70.5
Std Dev 0
3
2
1
0
−1
−2
−3

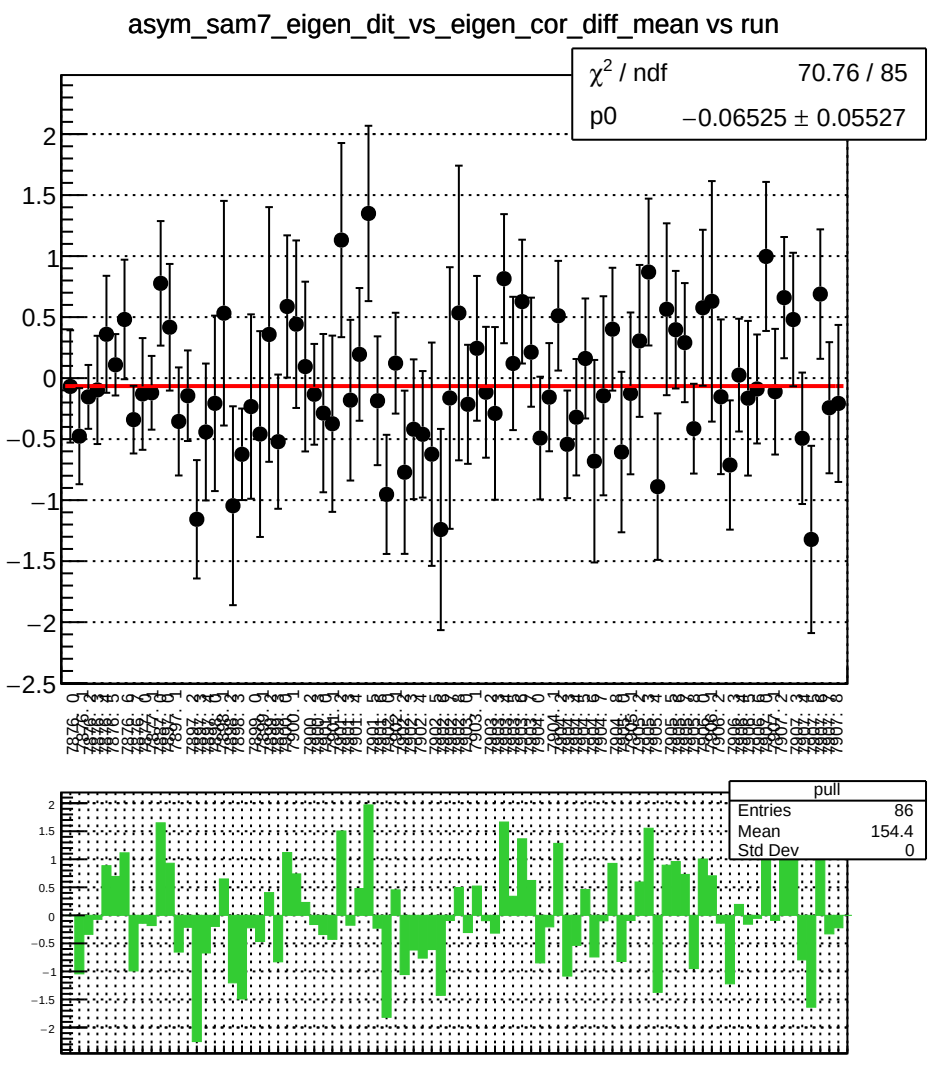

pull1D
Entries 86
Mean 0.06467
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

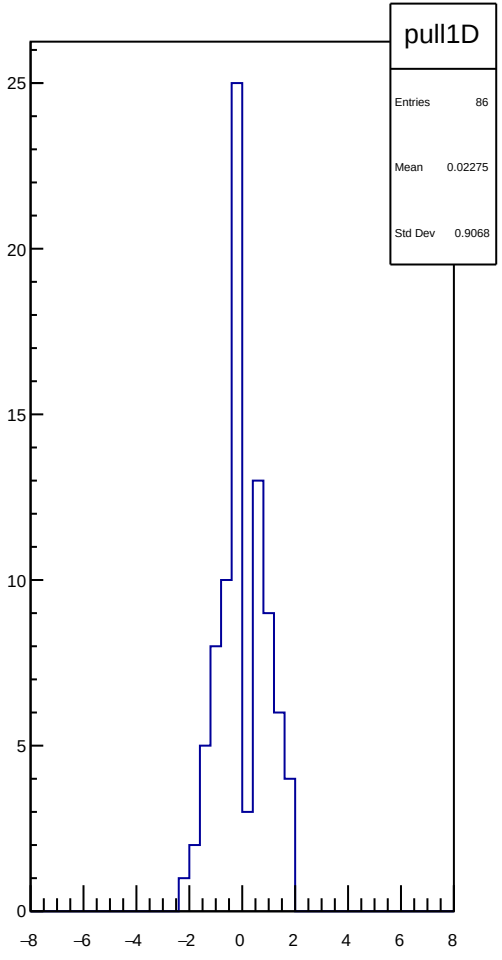

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.644e+05 / 85
p0 0.002593 ± 2.101e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

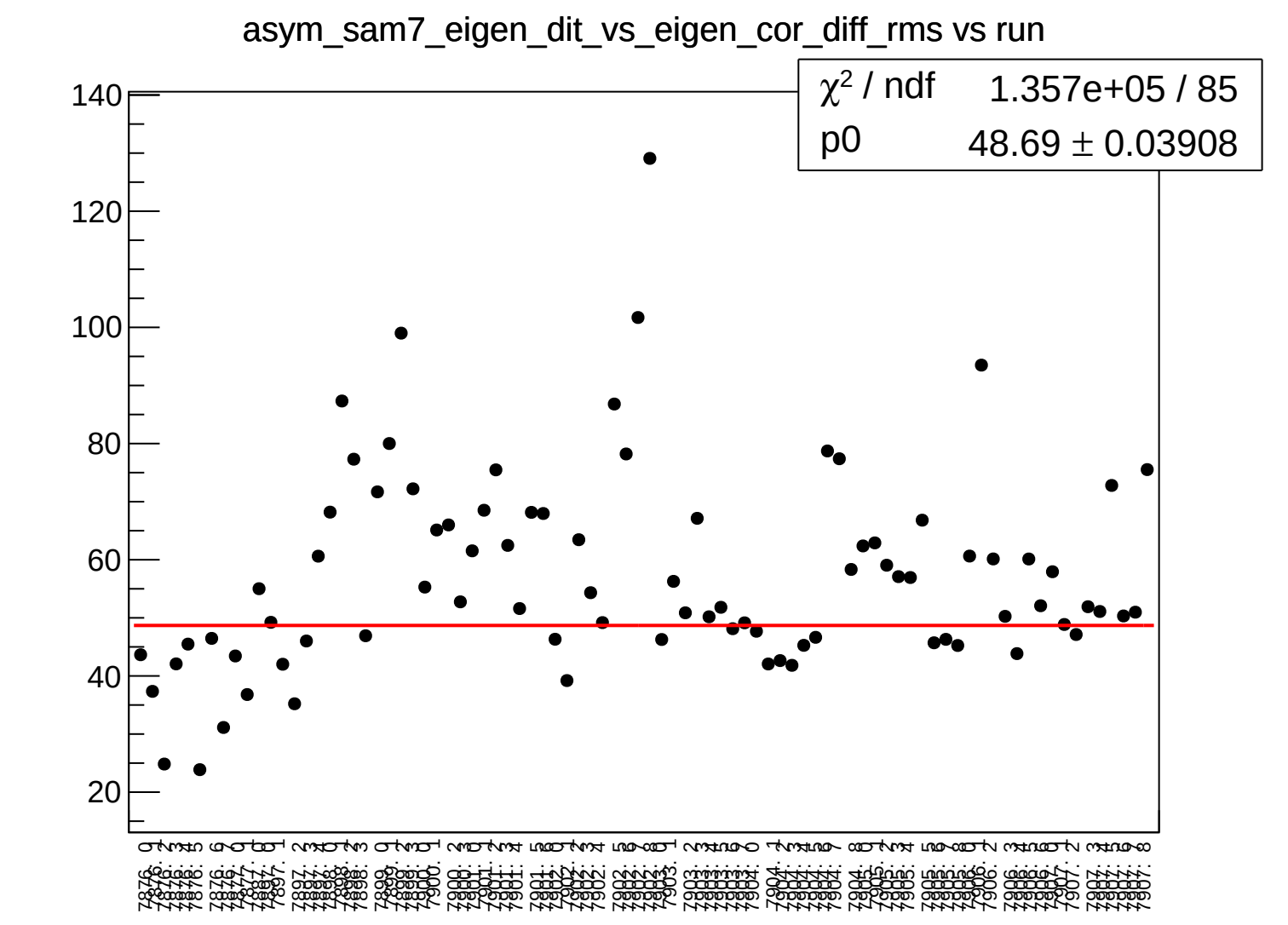

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.76 / 85
p0 −0.06525 ± 0.05527
pull
Entries 86
Mean 154.4
Std Dev 0

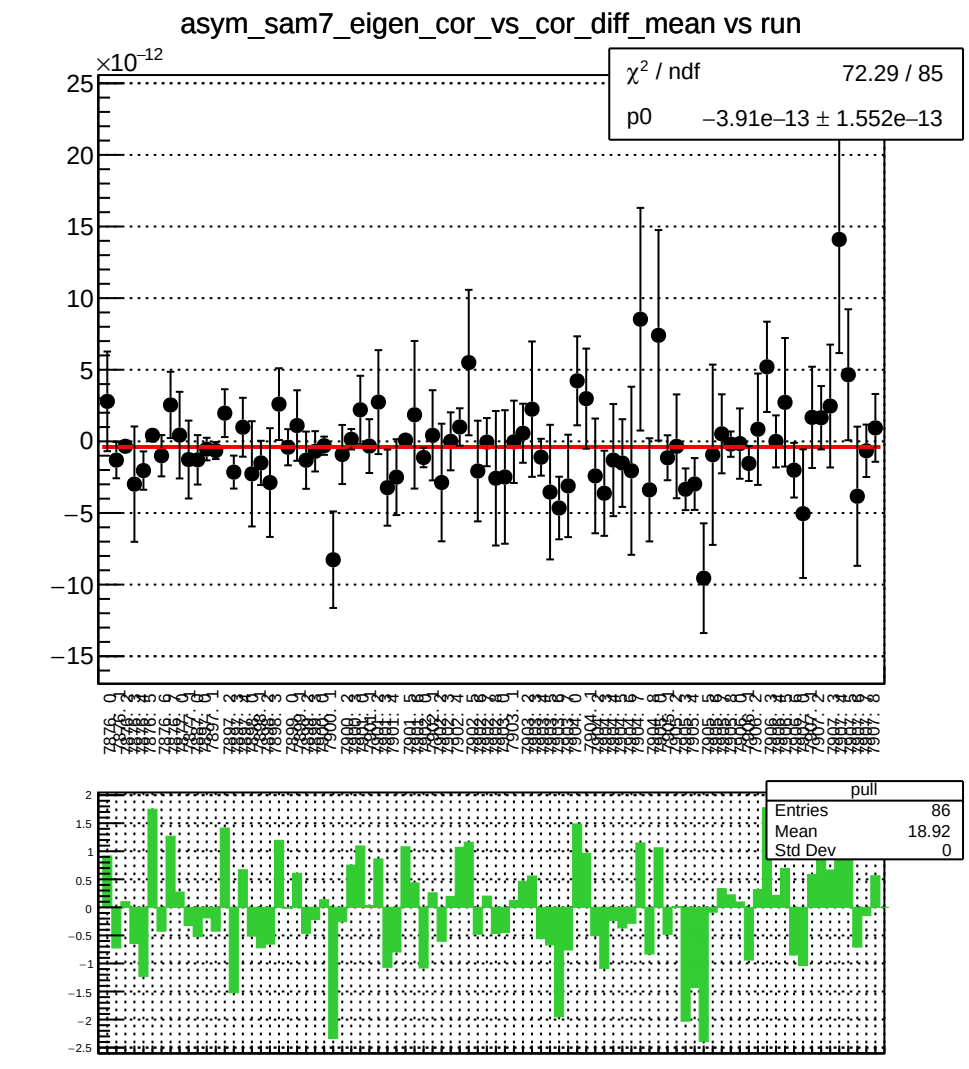

pull1D
Entries 86
Mean 0.02275
Std Dev 0.9068

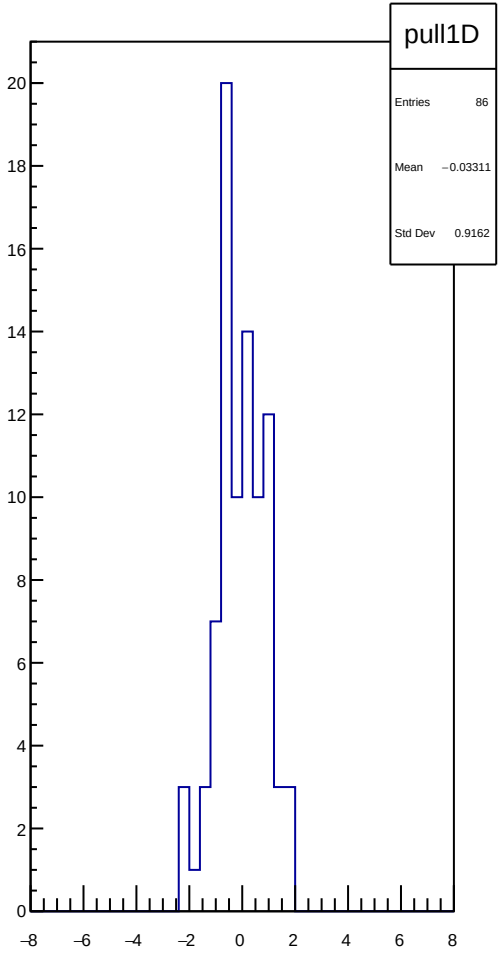

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 85
p0 48.69 ± 0.03908
140
120
100
80
60
40
20

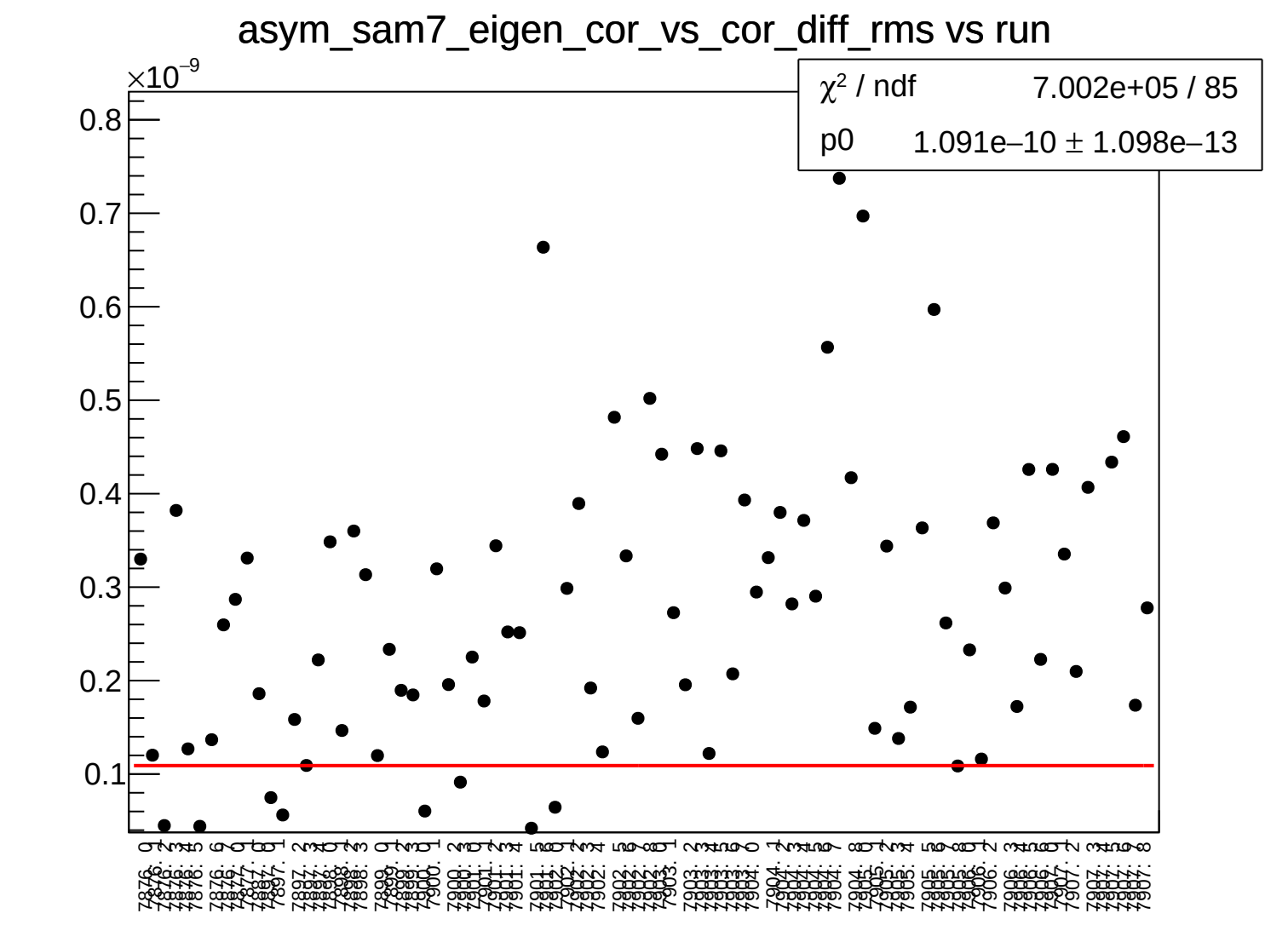

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.76 / 85
p0 −0.06525 ± 0.05527
pull
Entries 86
Mean 154.4
Std Dev 0

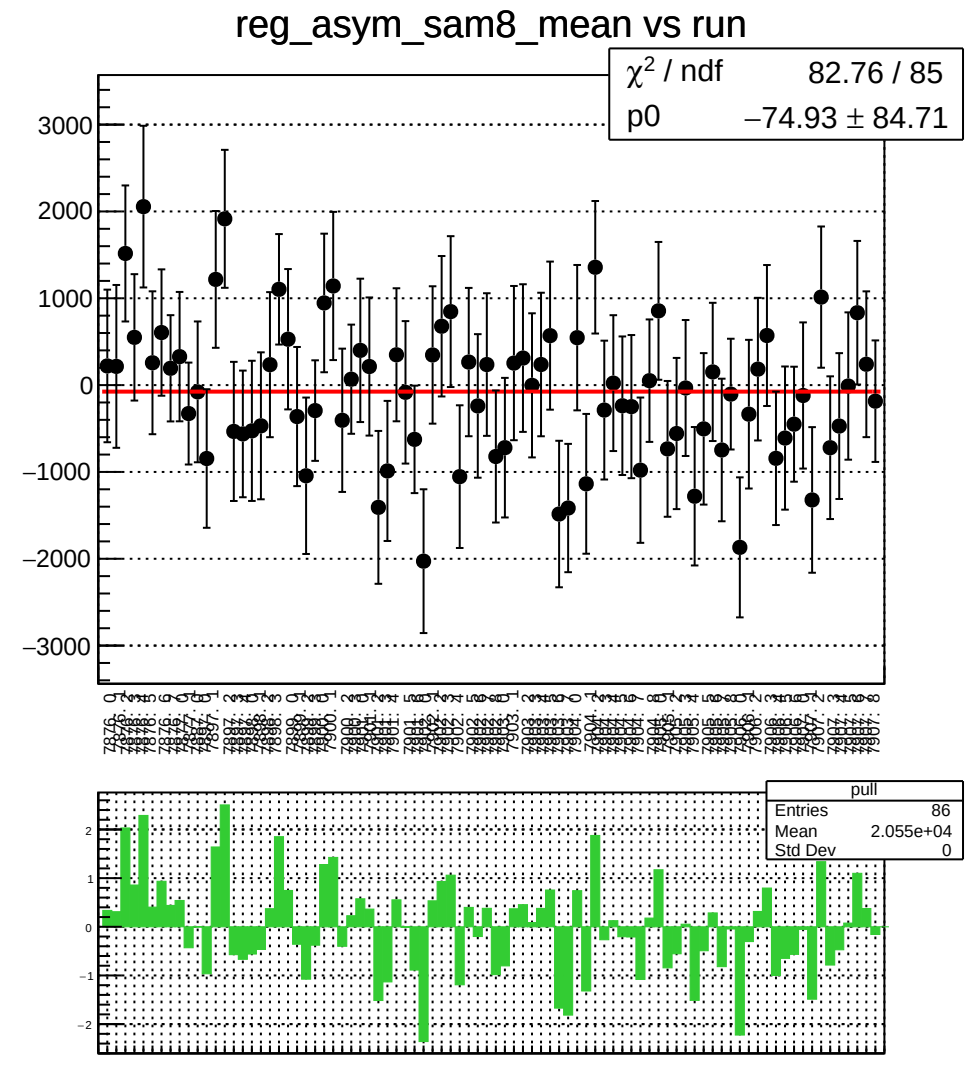

pull1D
Entries 86
Mean 0.02275
Std Dev 0.9068

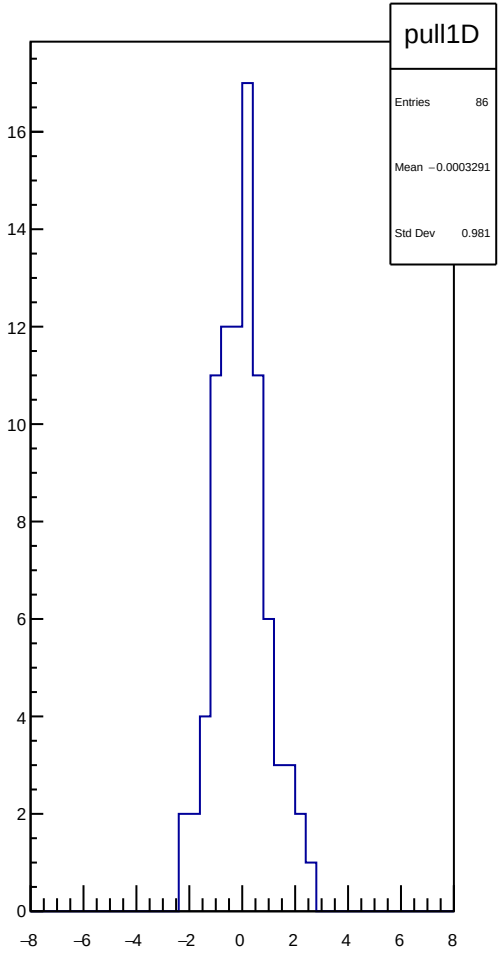

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 85
p0 48.69 ± 0.03908
140
120
100
80
60
40
20

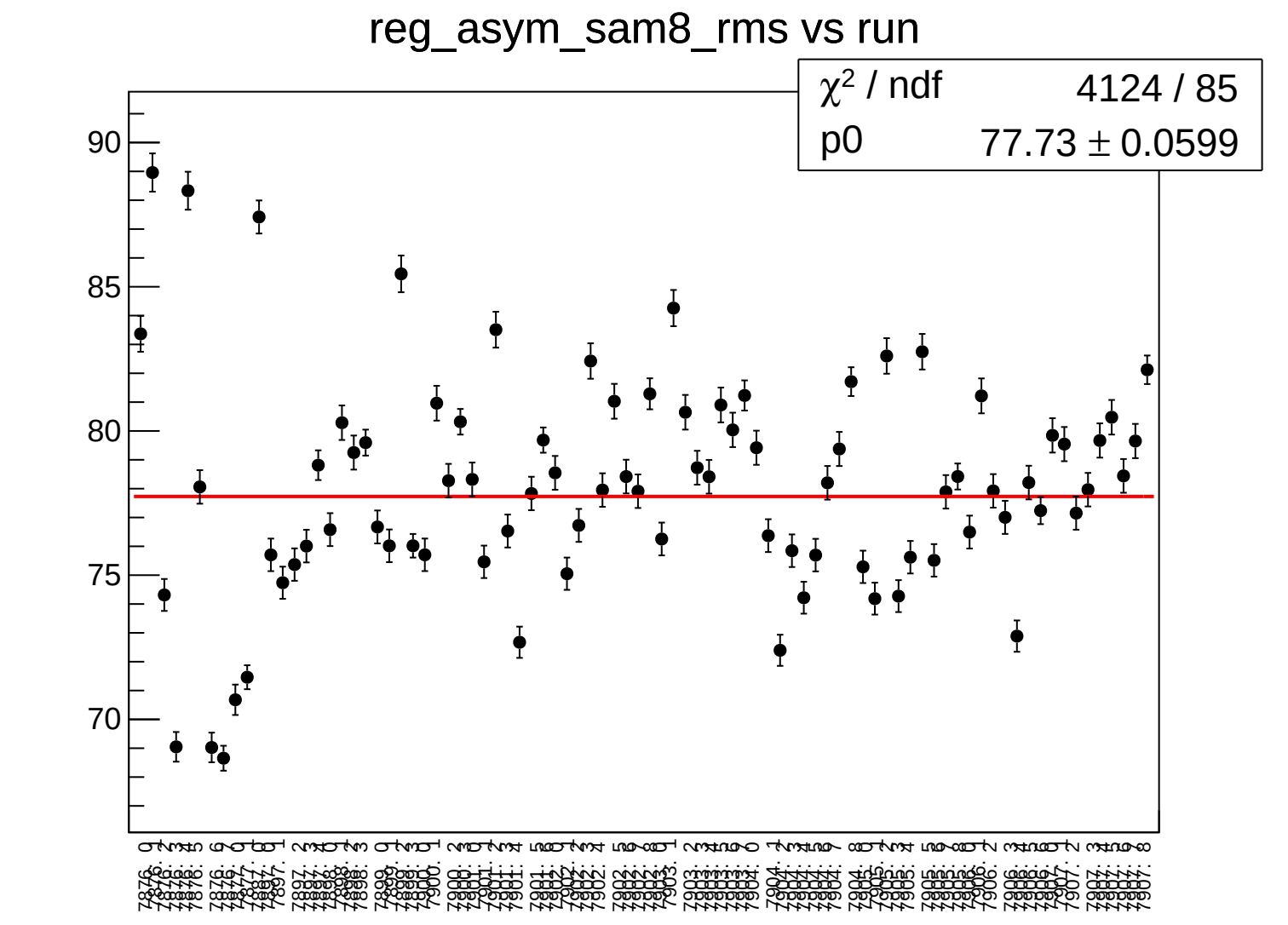

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.29 / 85
p0 −3.91e−13 ± 1.552e−13
pull
Entries 86
Mean 18.92
Std Dev 0

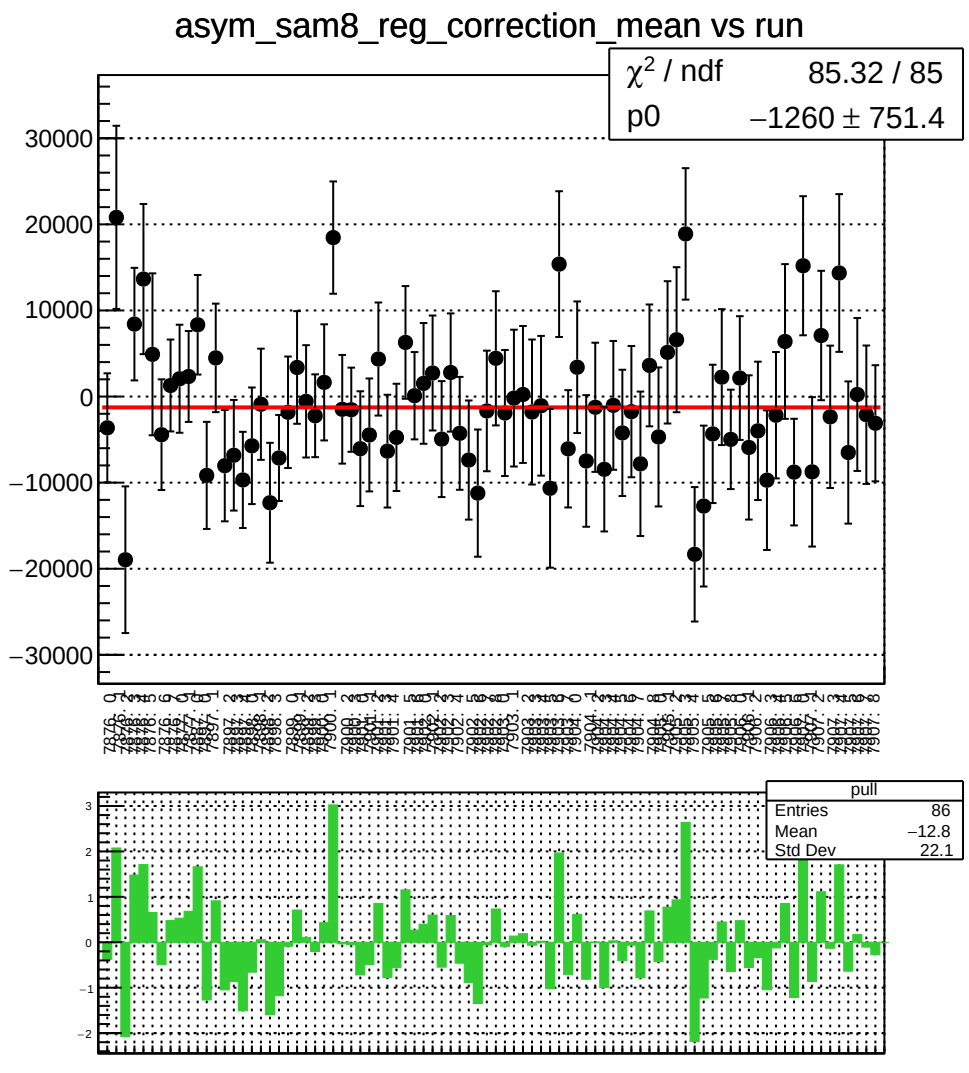

pull1D
Entries 86
Mean −0.03311
Std Dev 0.9162

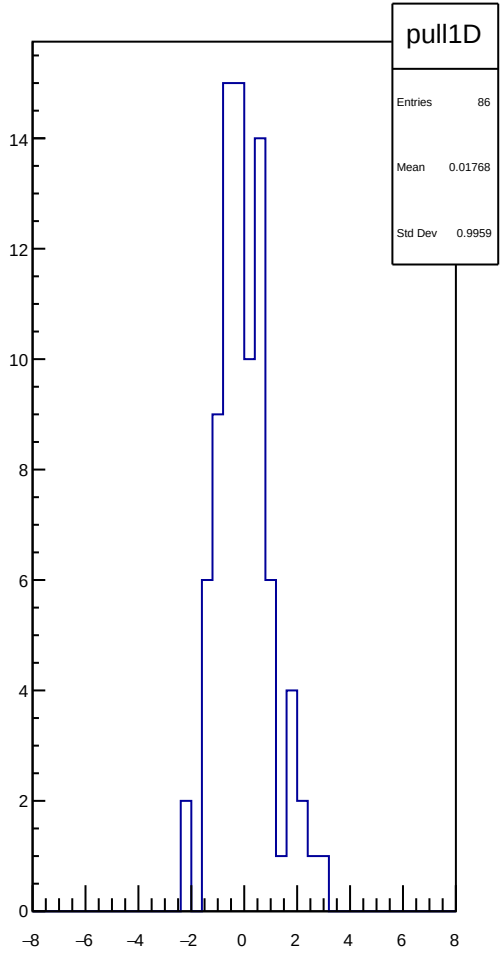

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.002e+05 / 85
p0 1.091e−10 ± 1.098e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

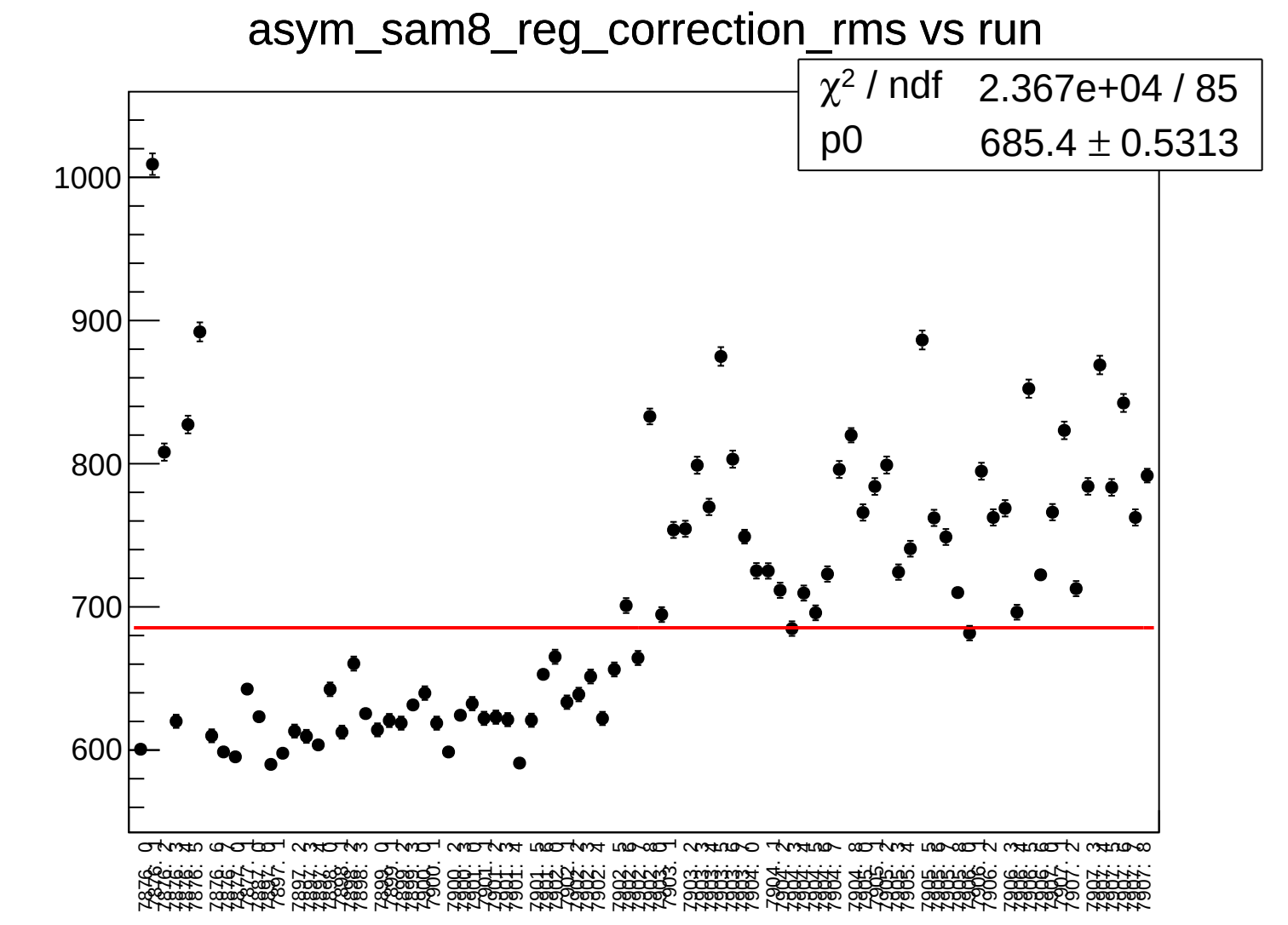

reg_asym_sam8_mean vs run
χ² / ndf 82.76 / 85
p0 −74.93 ± 84.71
pull
Entries 86
Mean 2.055e+04
Std Dev 0

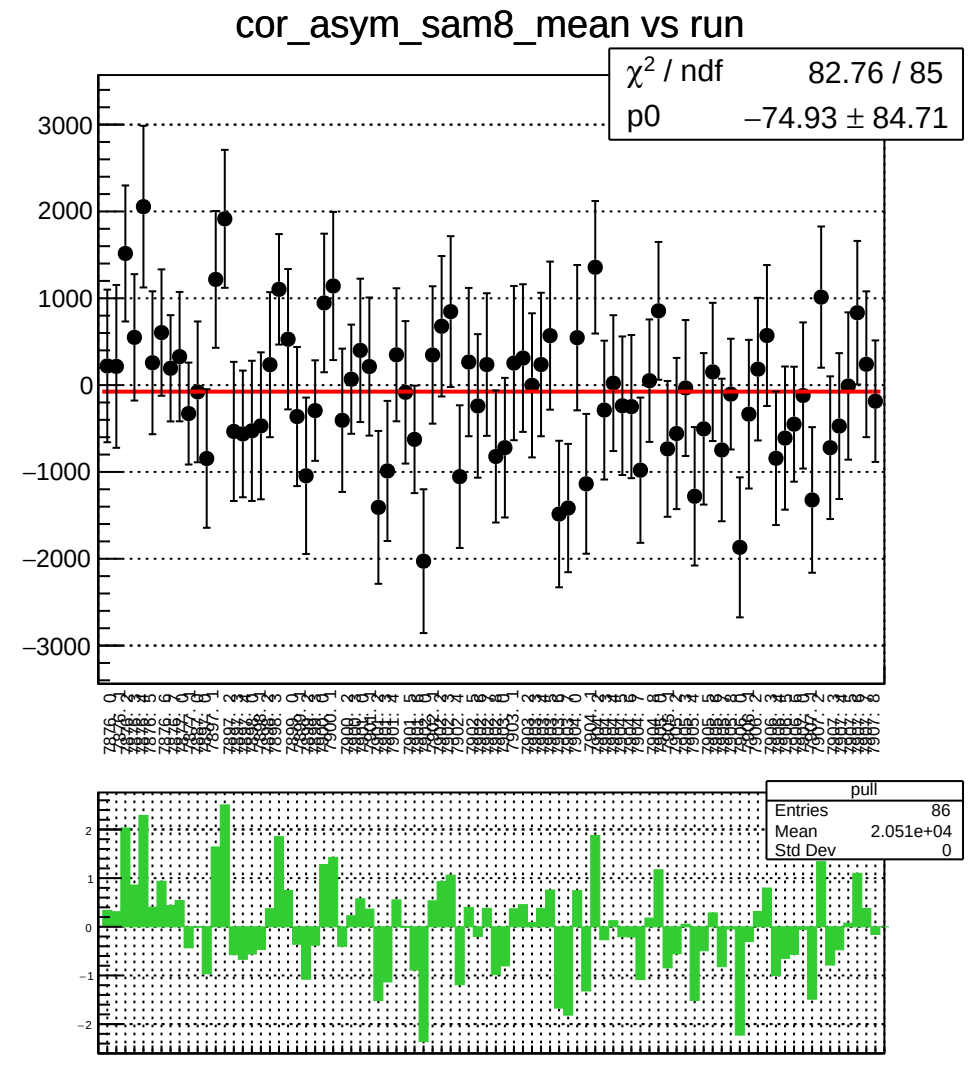

pull1D
Entries 86
Mean −0.0003291
Std Dev 0.981

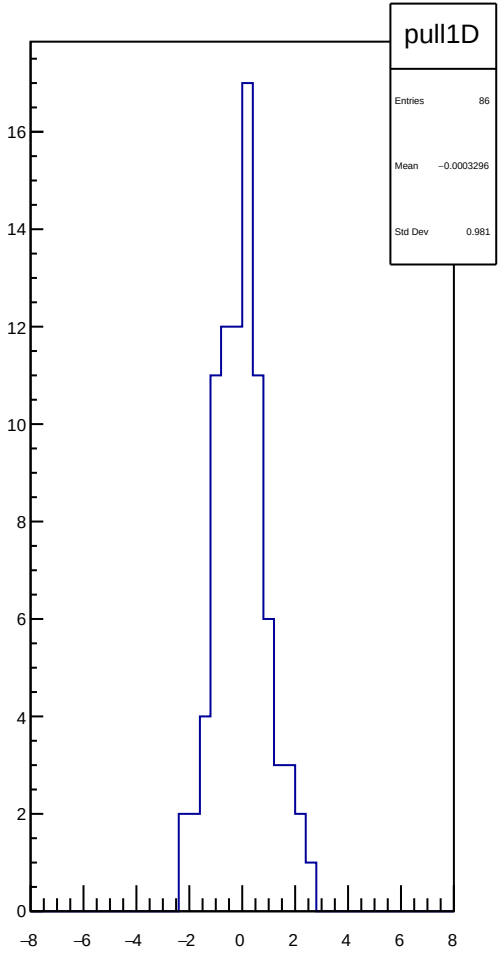

reg_asym_sam8_rms vs run
χ^2 / ndf 4124 / 85
p0 77.73 ± 0.0599
90
85
80
75
70

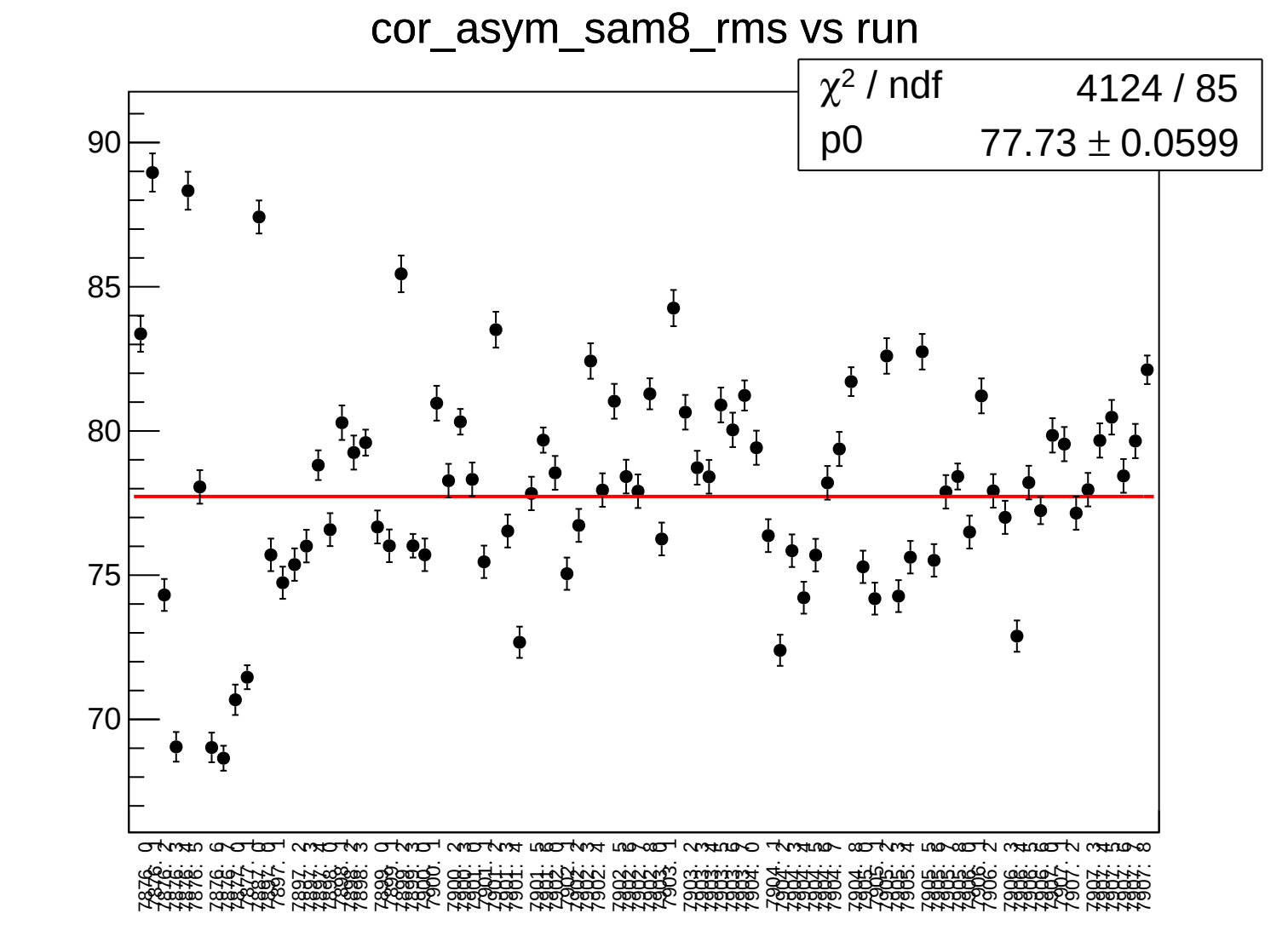

asym_sam8_reg_correction_mean vs run
χ² / ndf 85.32 / 85
p0 −1260 ± 751.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −12.8
Std Dev 22.1
3
2
1
0
−1
−2

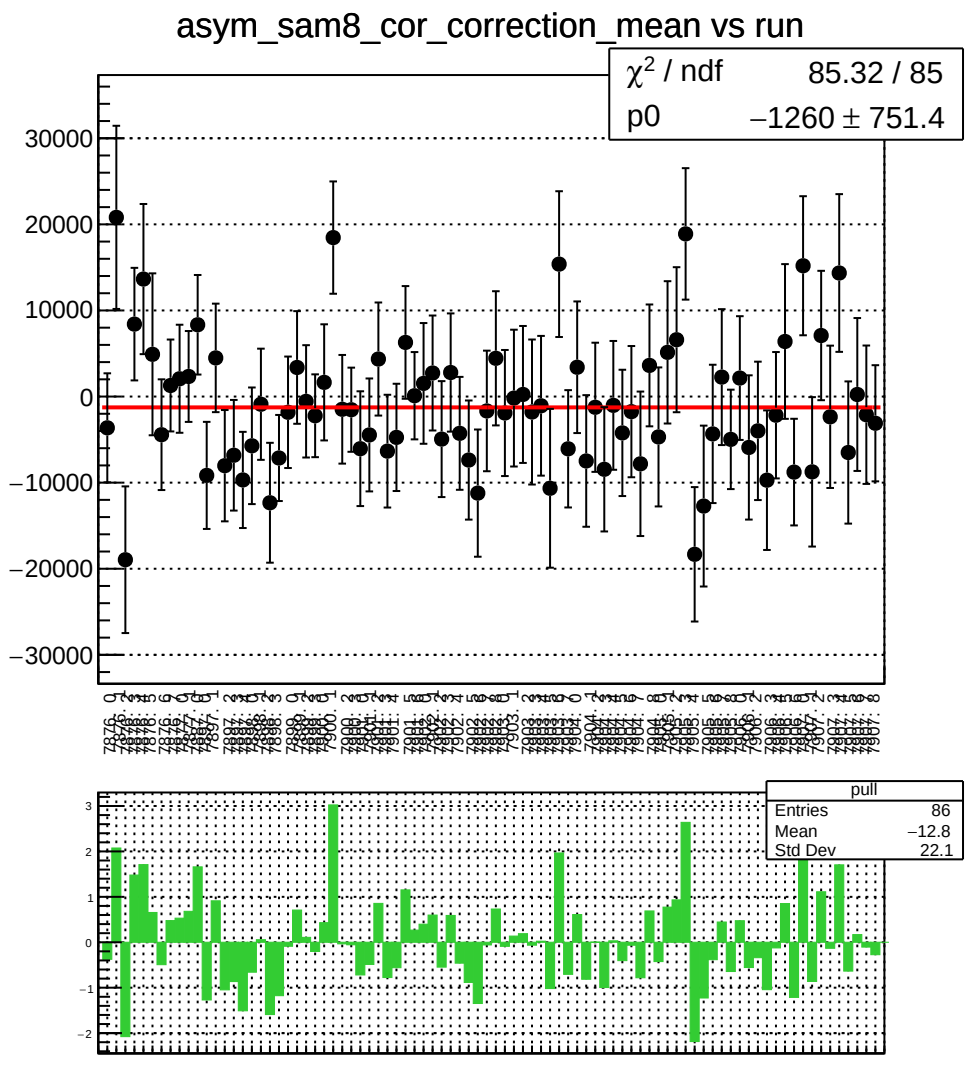

pull1D
Entries 86
Mean 0.01768
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

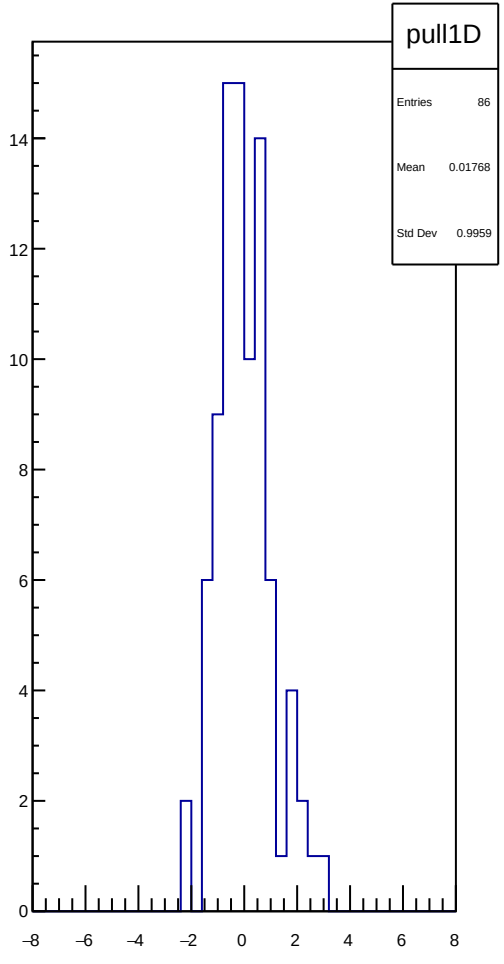

asym_sam8_reg_correction_rms vs run
χ² / ndf 2.367e+04 / 85
p0 685.4 ± 0.5313
1000
900
800
700
600

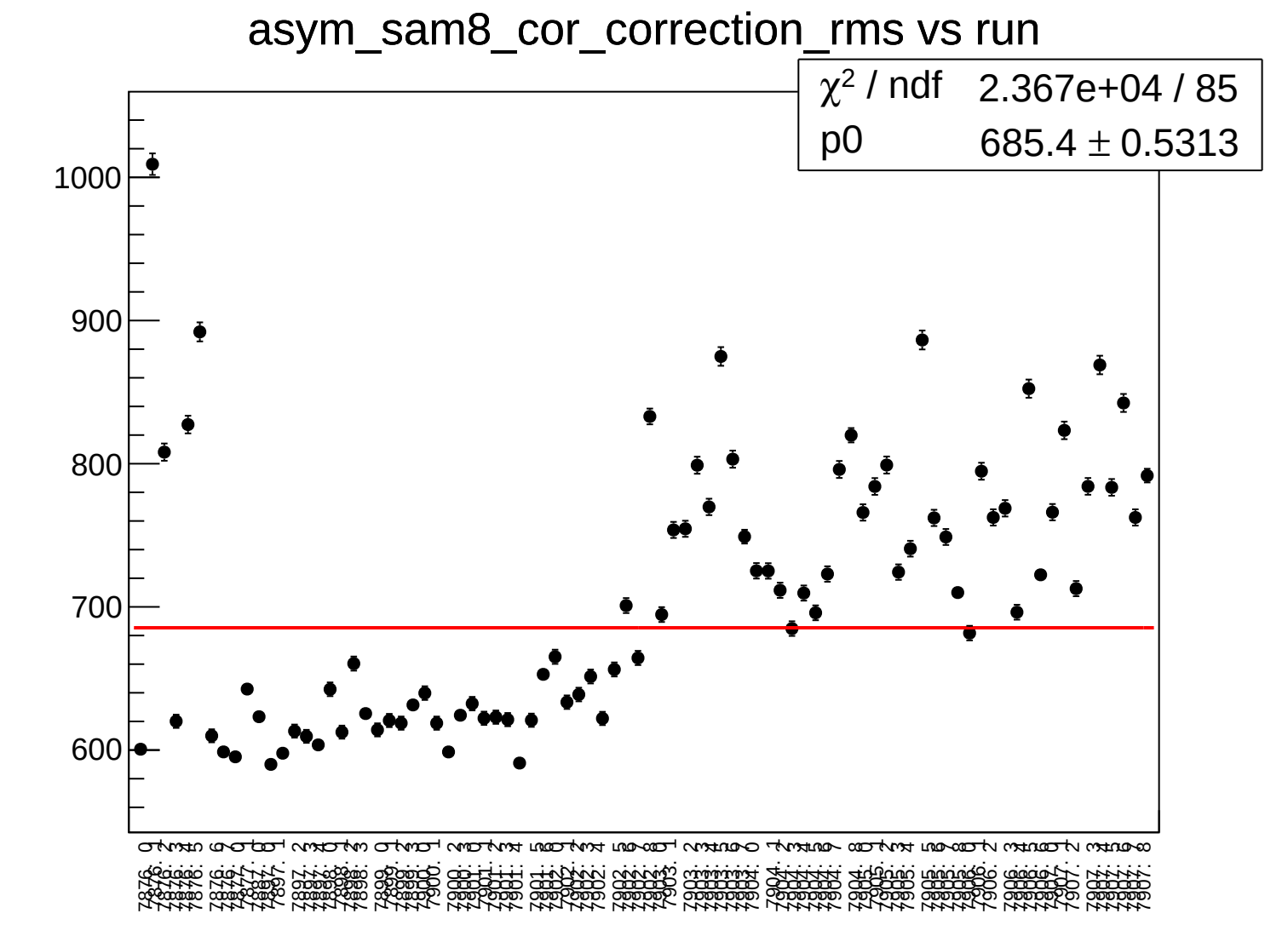

cor_asym_sam8_mean vs run
χ² / ndf 82.76 / 85
p0 −74.93 ± 84.71
pull
Entries 86
Mean 2.051e+04
Std Dev 0

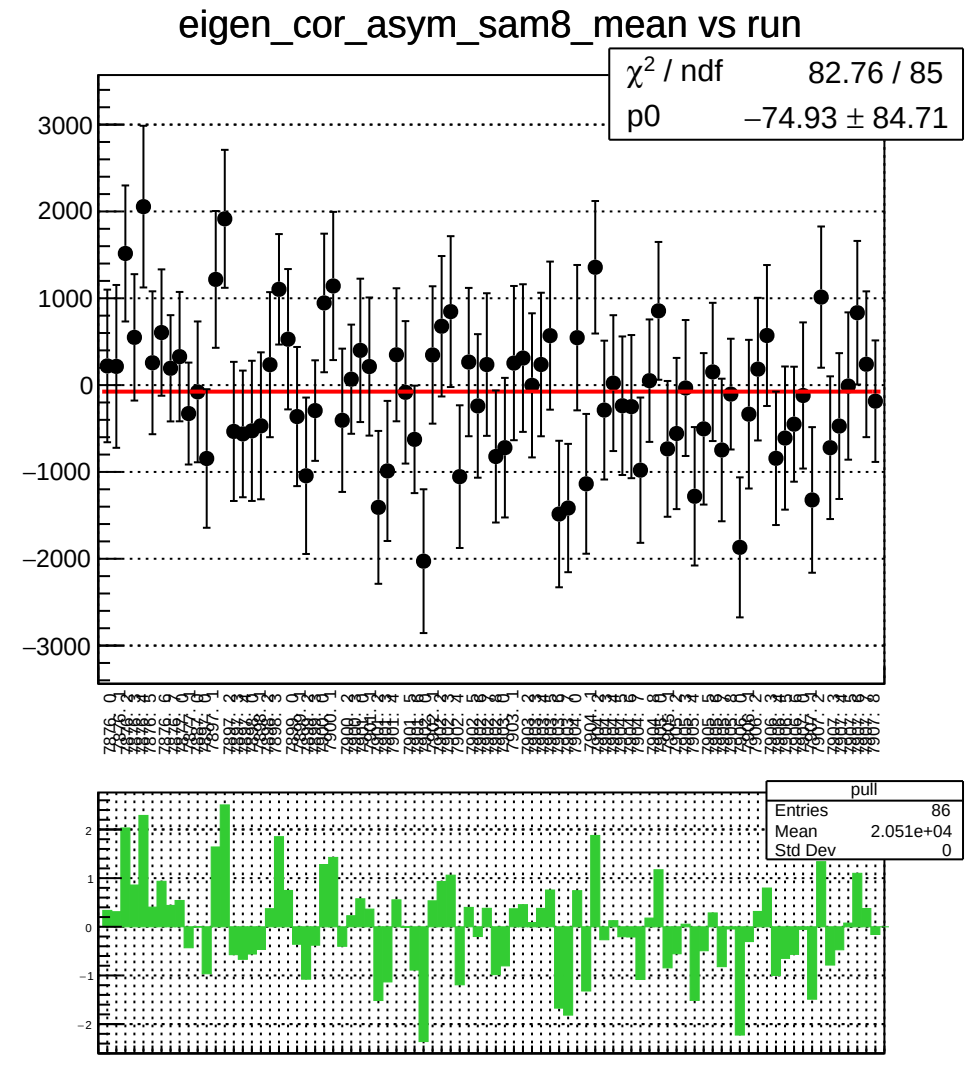

pull1D
Entries 86
Mean −0.0003296
Std Dev 0.981

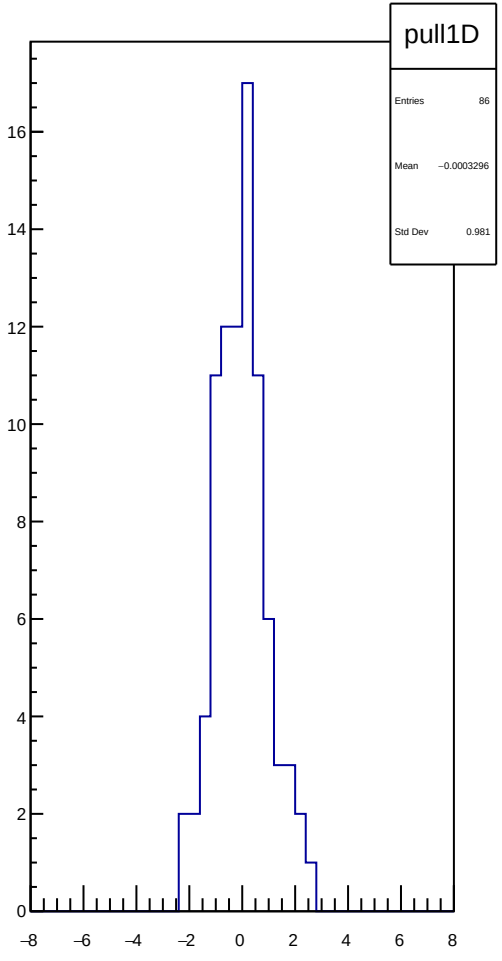

cor_asym_sam8_rms vs run
χ^2 / ndf 4124 / 85
p0 77.73 ± 0.0599
90
85
80
75
70

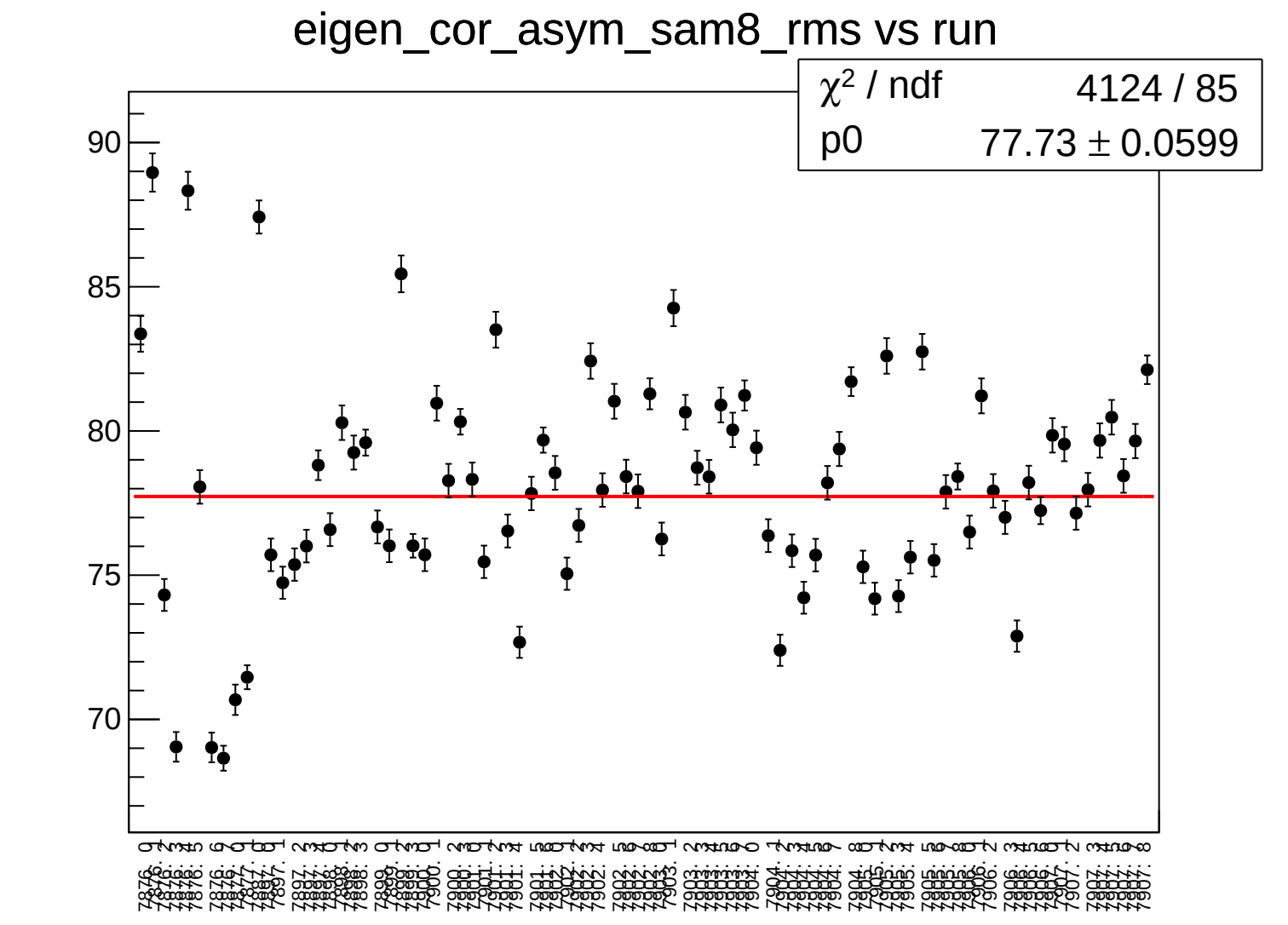

asym_sam8_cor_correction_mean vs run
χ² / ndf 85.32 / 85
p0 −1260 ± 751.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −12.8
Std Dev 22.1
3
2
1
0
−1
−2

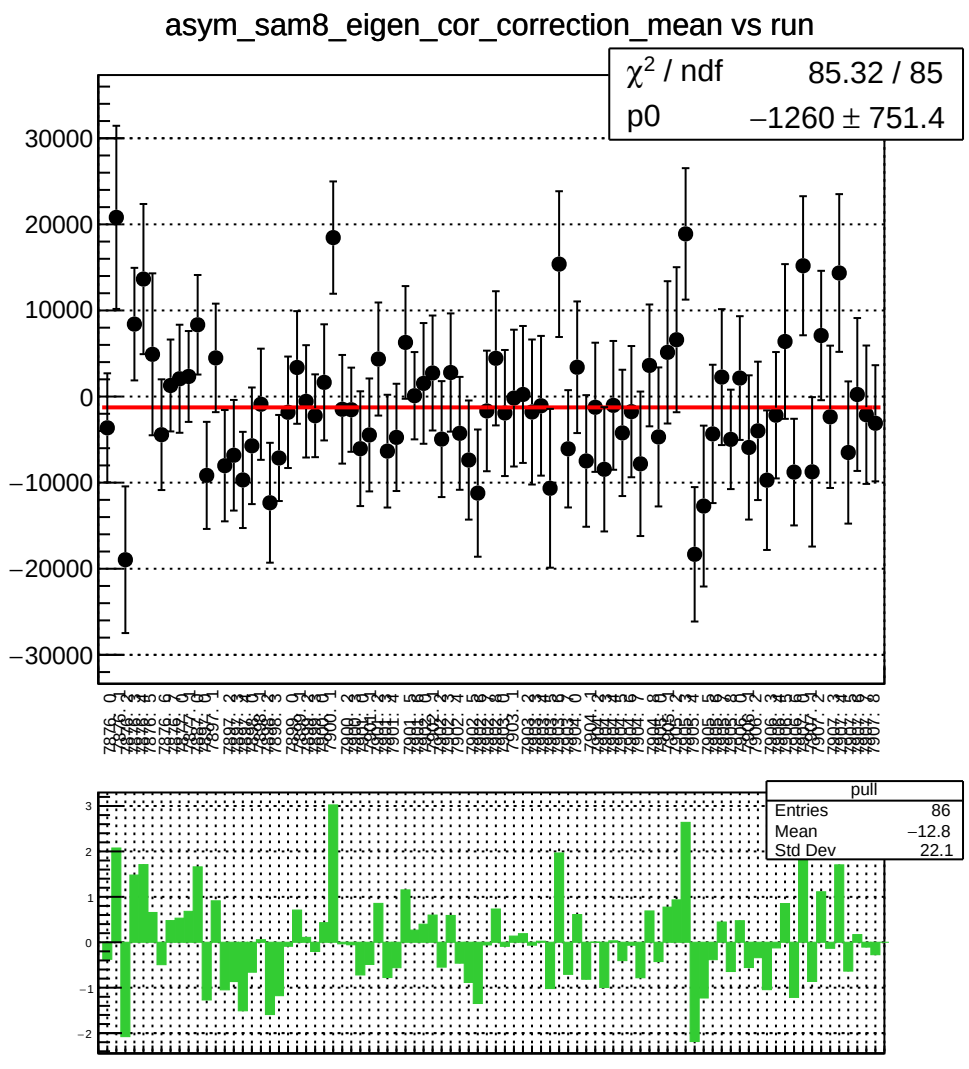

pull1D
Entries 86
Mean 0.01768
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

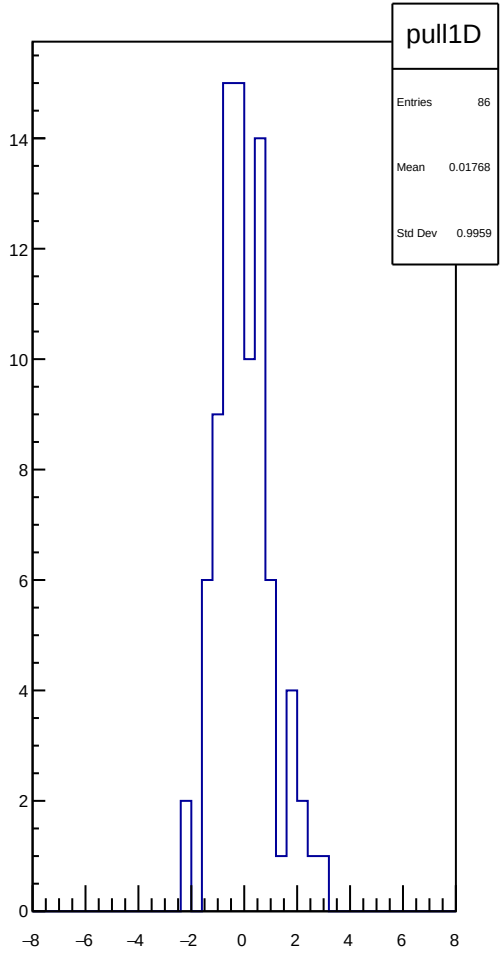

asym_sam8_cor_correction_rms vs run
χ² / ndf 2.367e+04 / 85
p0 685.4 ± 0.5313
1000
900
800
700
600

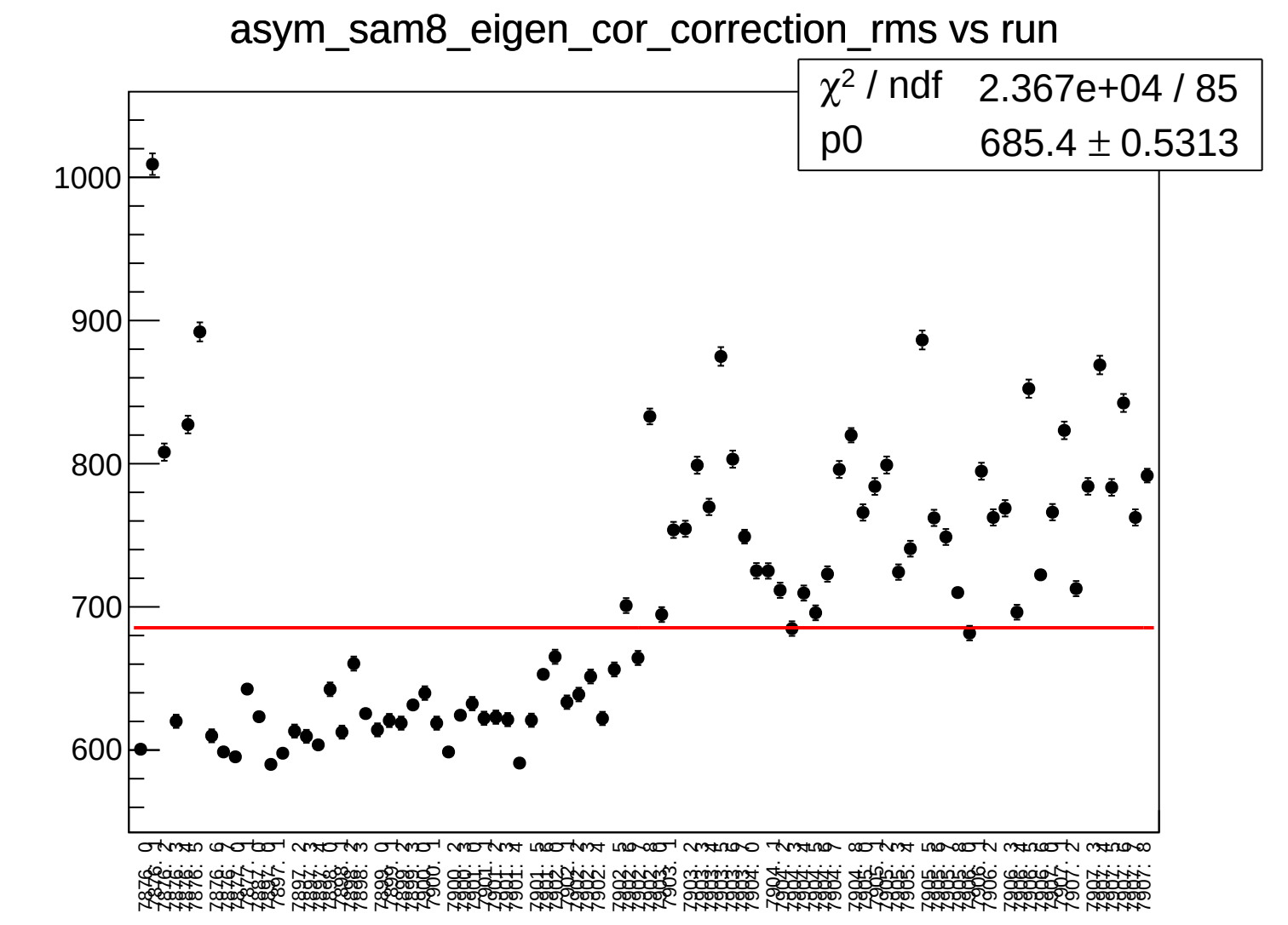

eigen_cor_asym_sam8_mean vs run
χ² / ndf 82.76 / 85
p0 −74.93 ± 84.71
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 2.051e+04
Std Dev 0
2
1
0
−1
−2

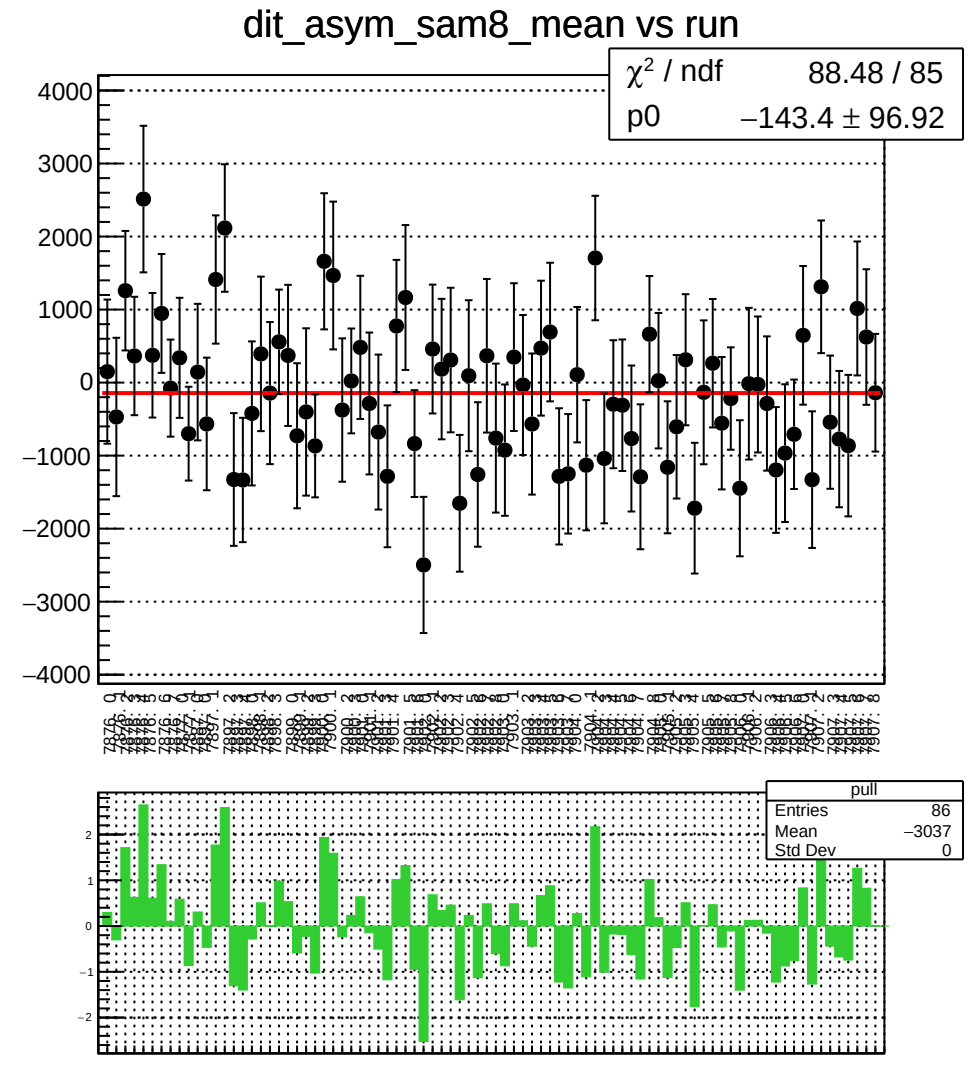

pull1D
Entries 86
Mean −0.0003296
Std Dev 0.981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

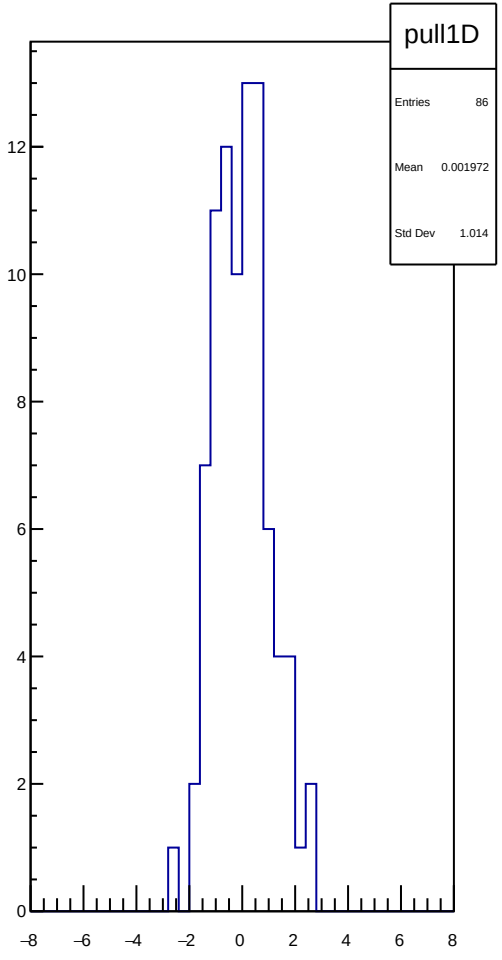

eigen_cor_asym_sam8_rms vs run
χ² / ndf 4124 / 85
p0 77.73 ± 0.0599
90
85
80
75
70

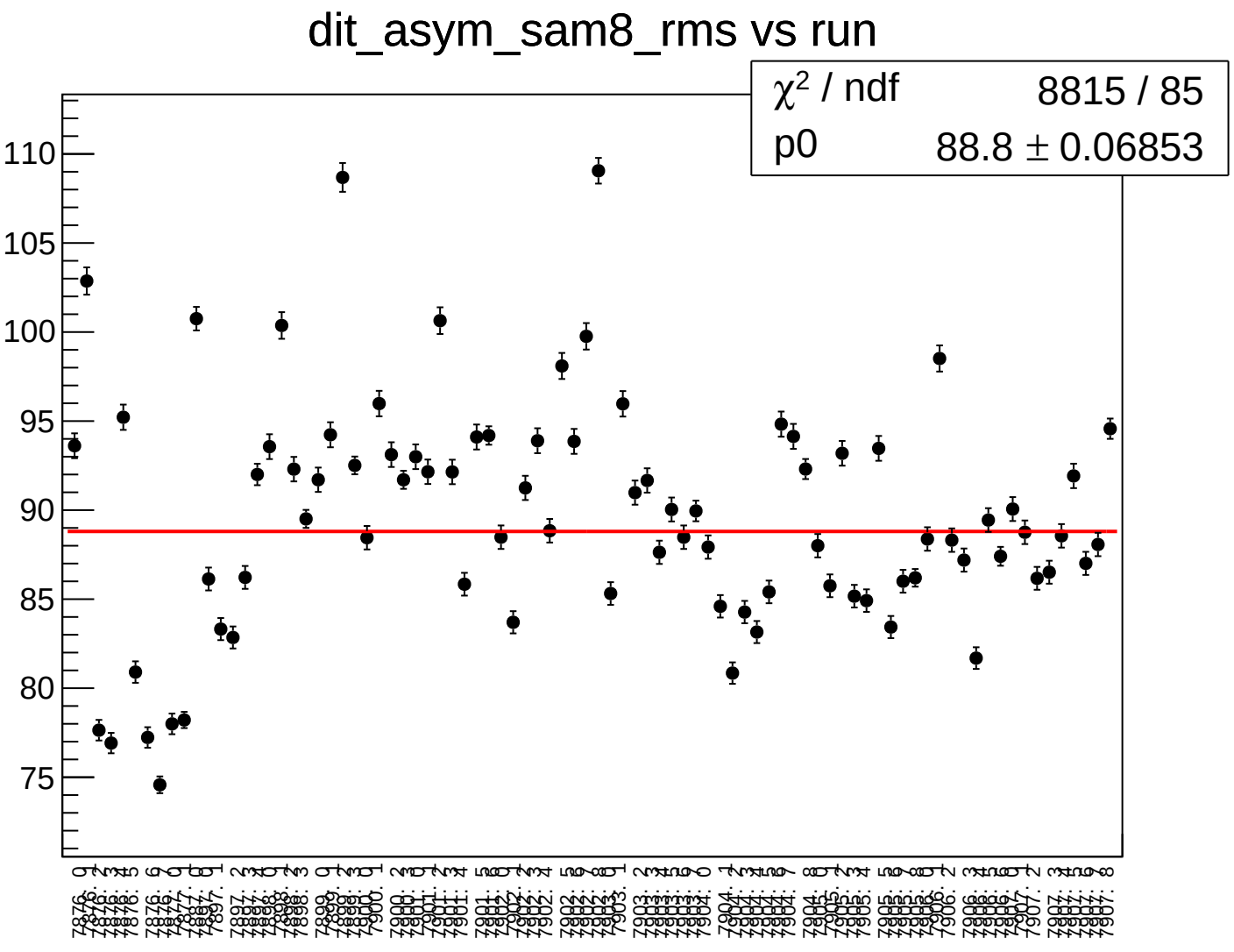

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 85.32 / 85
p0 −1260 ± 751.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −12.8
Std Dev 22.1
3
2
1
0
−1
−2

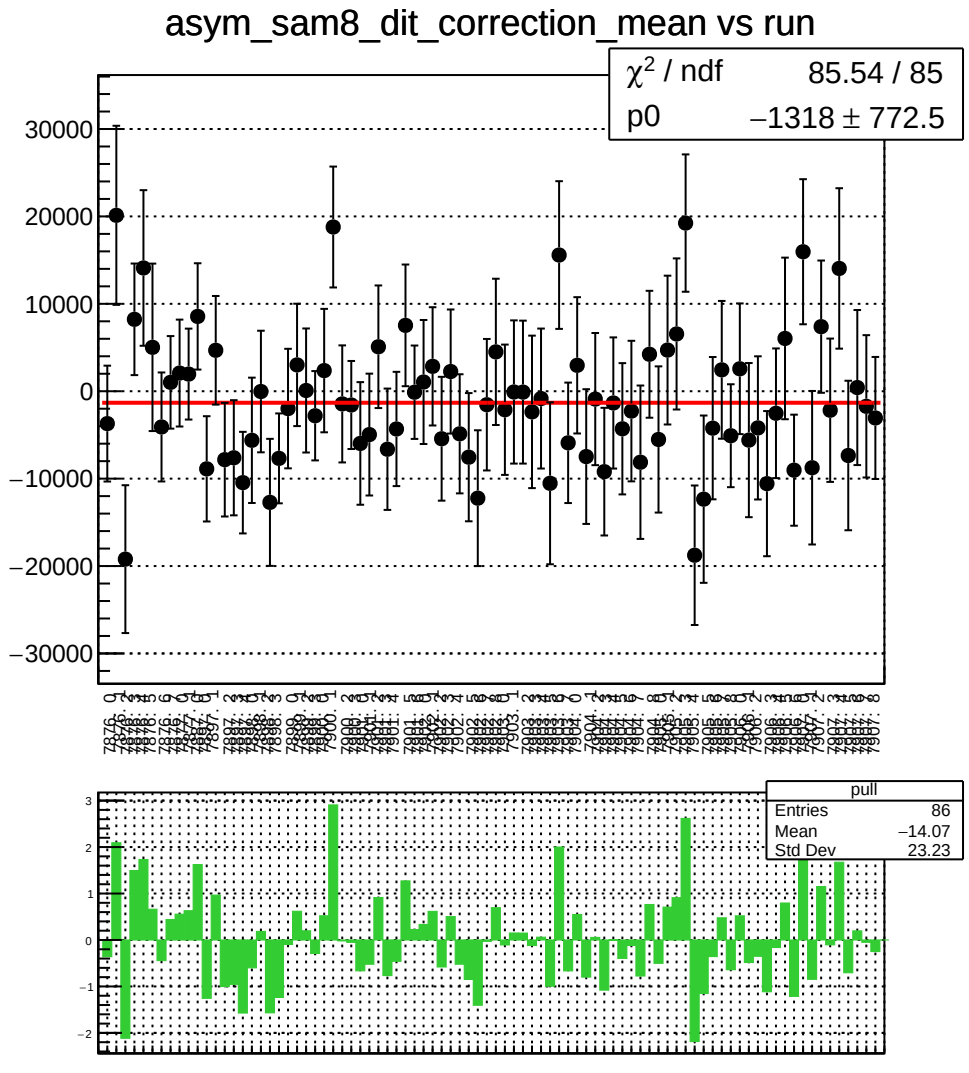

pull1D
Entries 86
Mean 0.01768
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

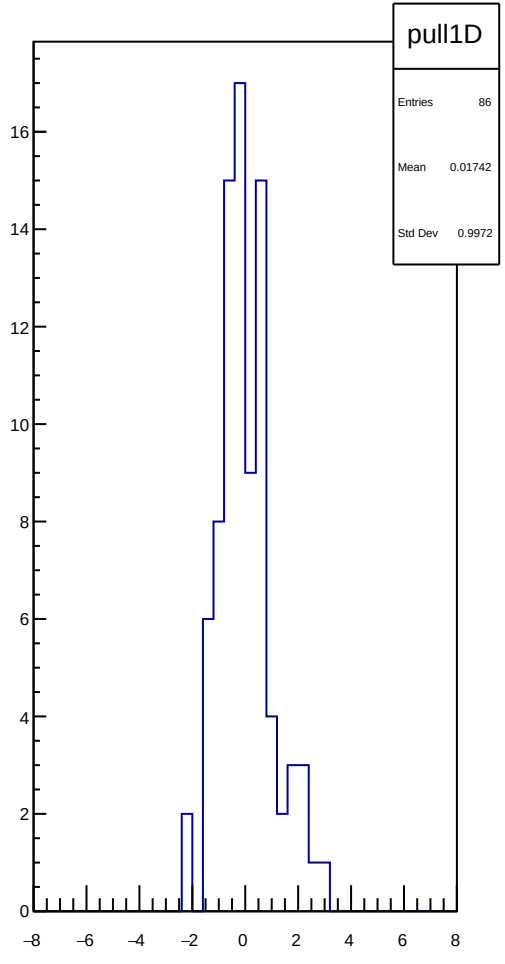

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 2.367e+04 / 85
p0 685.4 ± 0.5313
1000
900
800
700
600

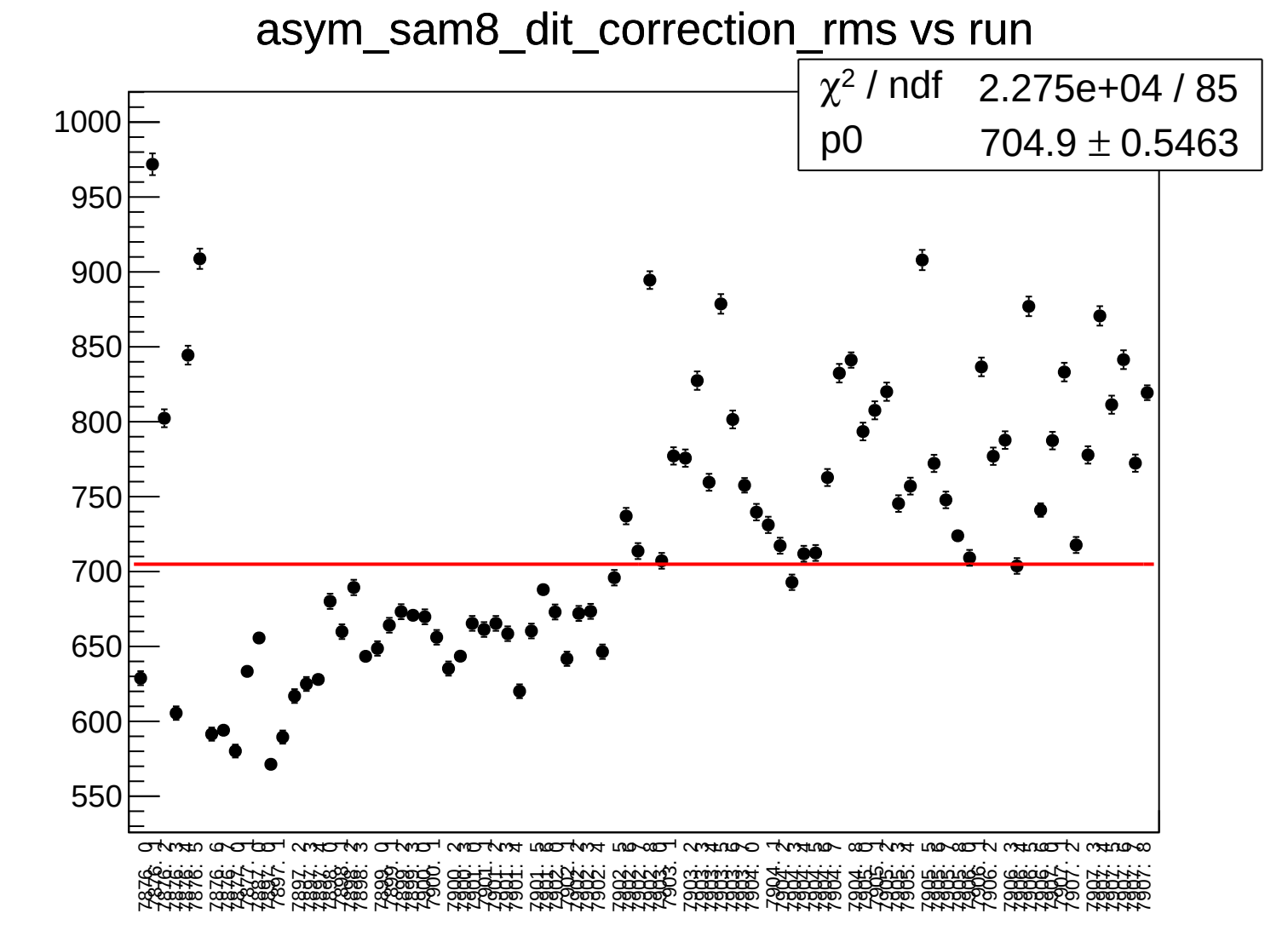

dit_asym_sam8_mean vs run
χ² / ndf 88.48 / 85
p0 −143.4 ± 96.92
pull
Entries 86
Mean −3037
Std Dev 0

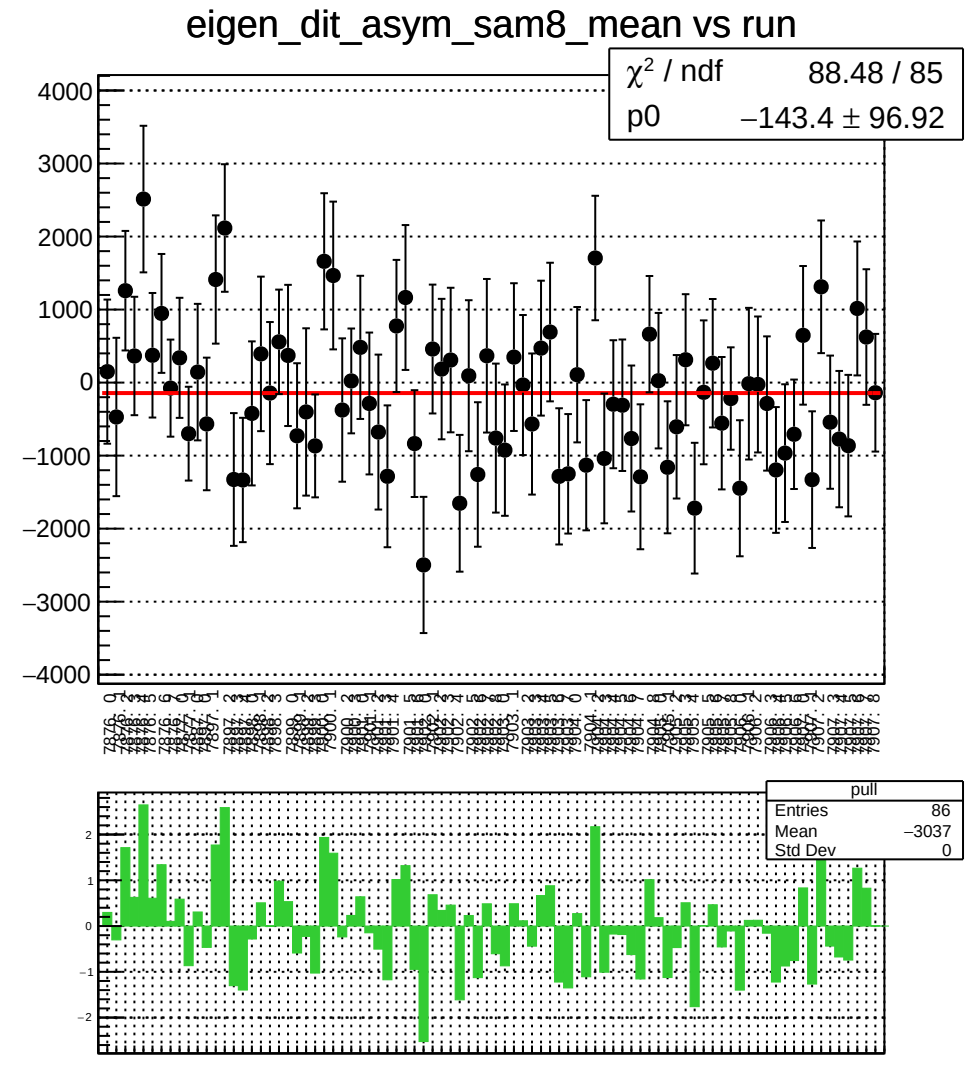

pull1D
Entries 86
Mean 0.001972
Std Dev 1.014

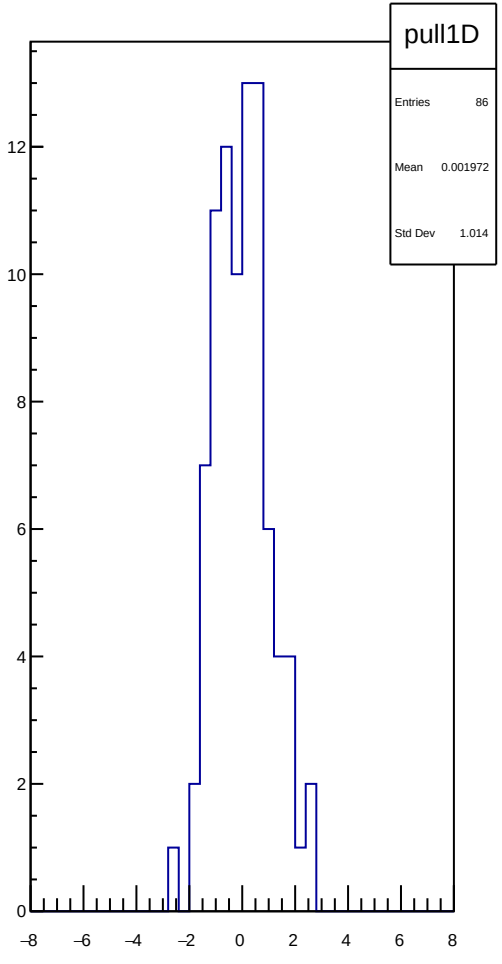

dit_asym_sam8_rms vs run
χ² / ndf 8815 / 85
p0 88.8 ± 0.06853
110
105
100
95
90
85
80
75

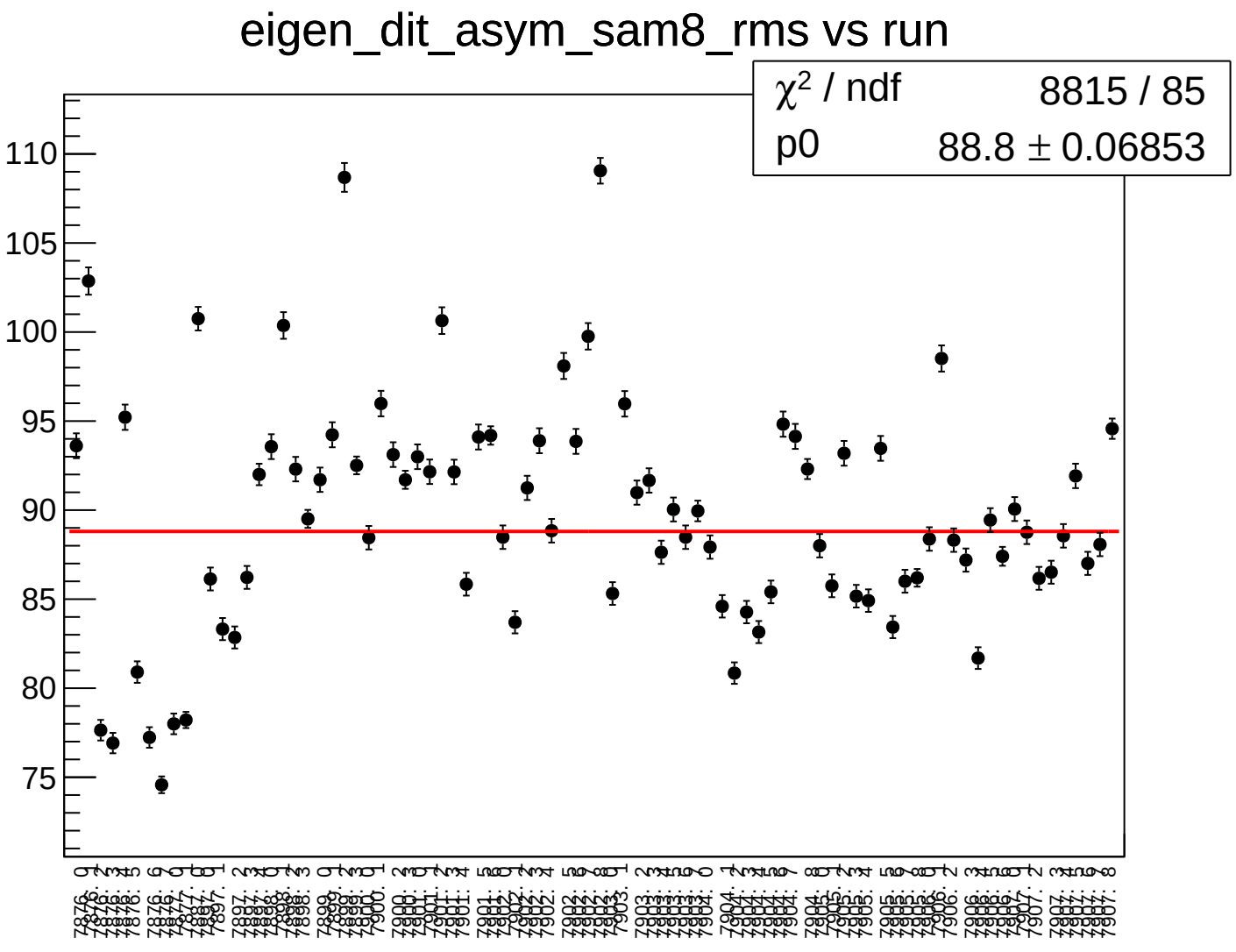

asym_sam8_dit_correction_mean vs run
χ² / ndf 85.54 / 85
p0 −1318 ± 772.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −14.07
Std Dev 23.23
3
2
1
0
−1
−2

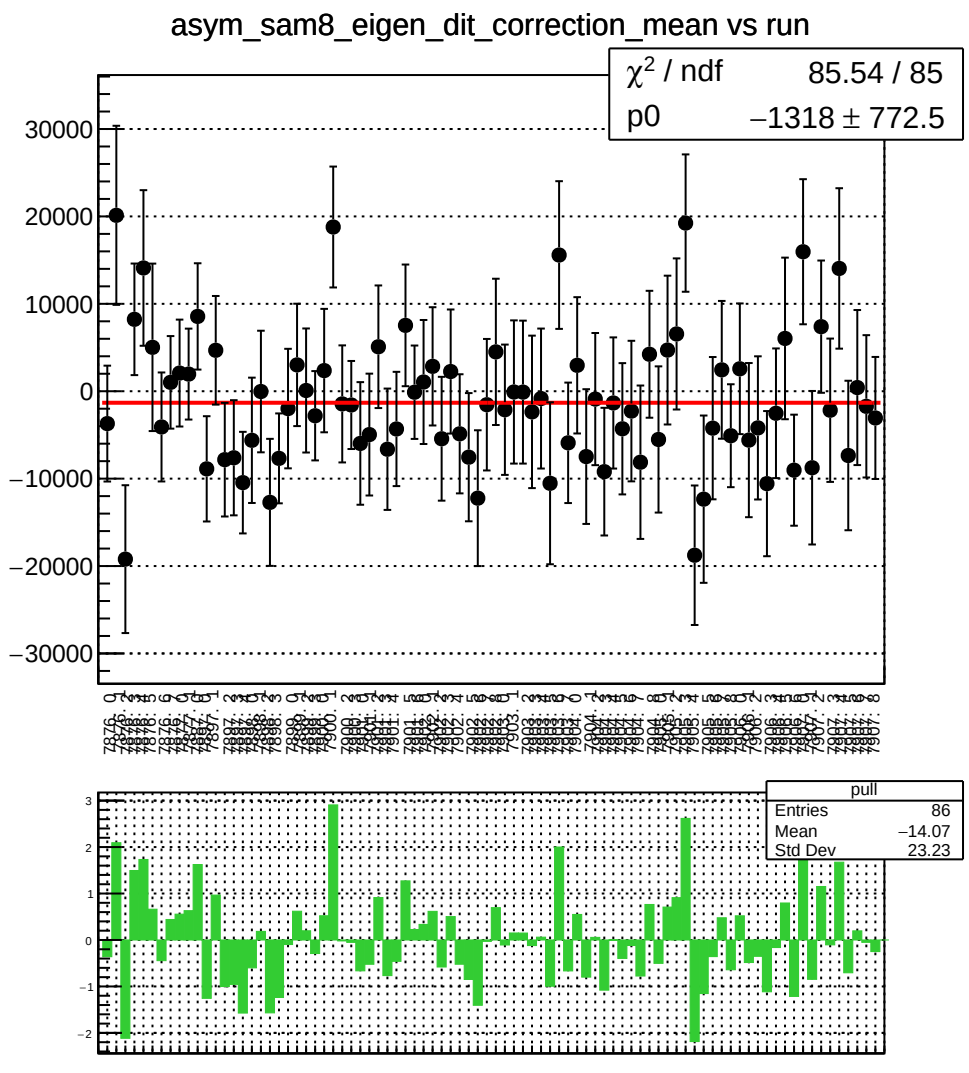

pull1D
Entries 86
Mean 0.01742
Std Dev 0.9972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

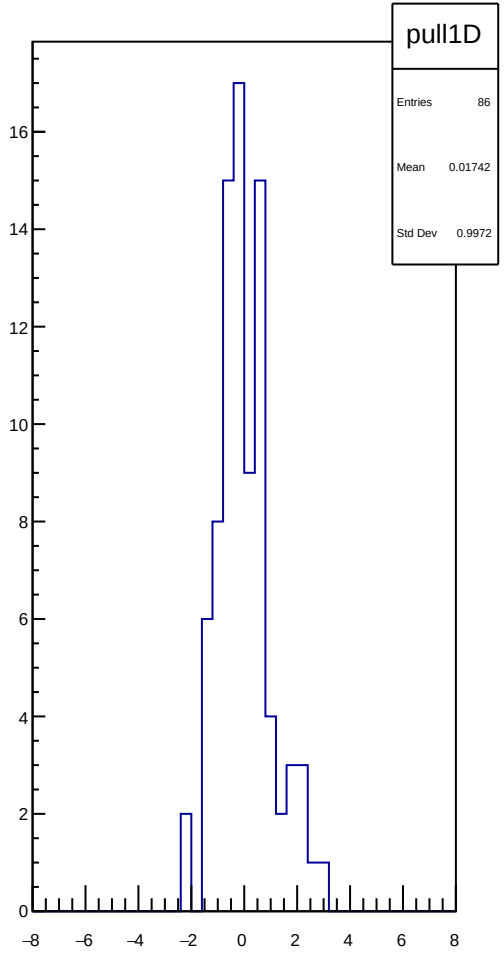

asym_sam8_dit_correction_rms vs run
χ² / ndf 2.275e+04 / 85
p0 704.9 ± 0.5463
1000
950
900
850
800
750
700
650
600
550

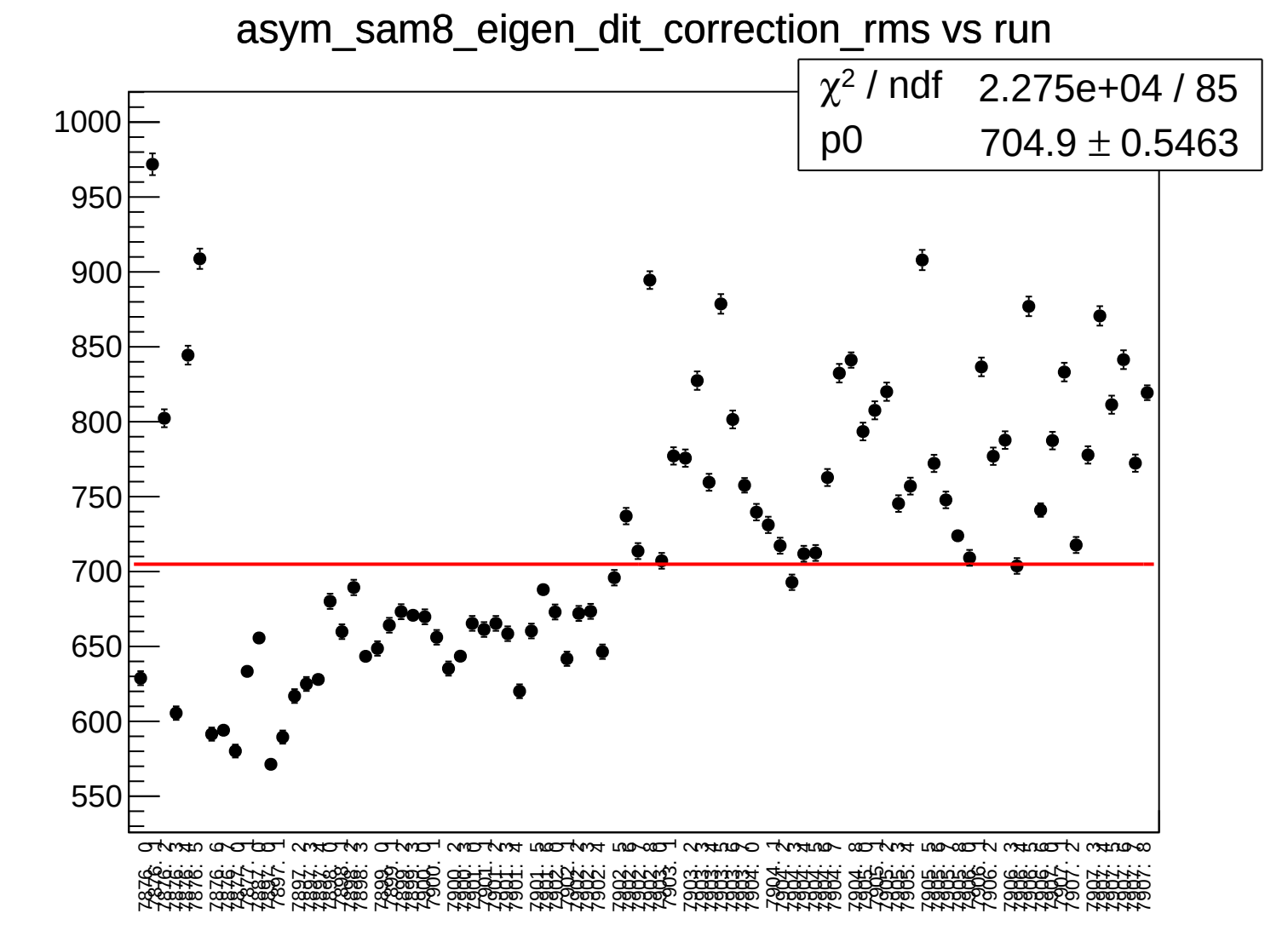

eigen_dit_asym_sam8_mean vs run
χ² / ndf 88.48 / 85
p0 −143.4 ± 96.92
pull
Entries 86
Mean −3037
Std Dev 0

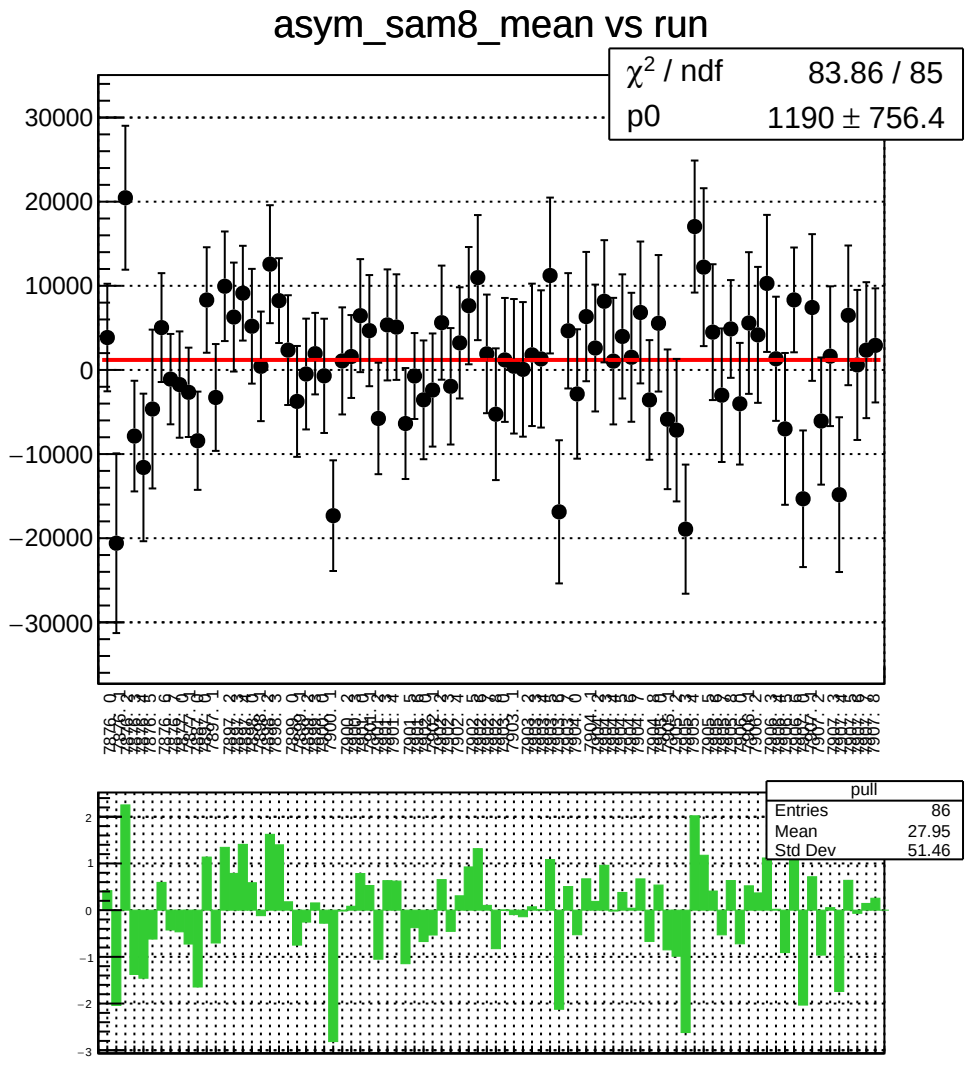

pull1D
Entries 86
Mean 0.001972
Std Dev 1.014

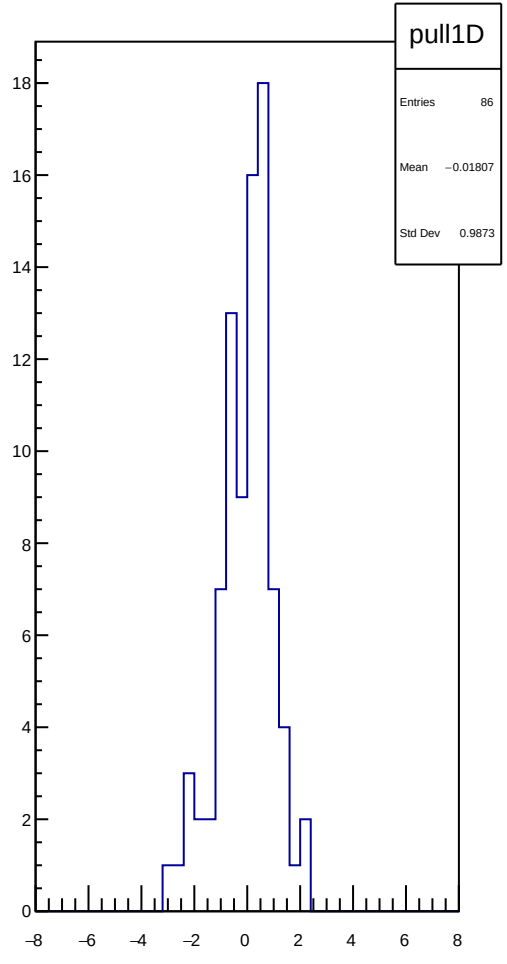

eigen_dit_asym_sam8_rms vs run
χ² / ndf 8815 / 85
p0 88.8 ± 0.06853
110
105
100
95
90
85
80
75

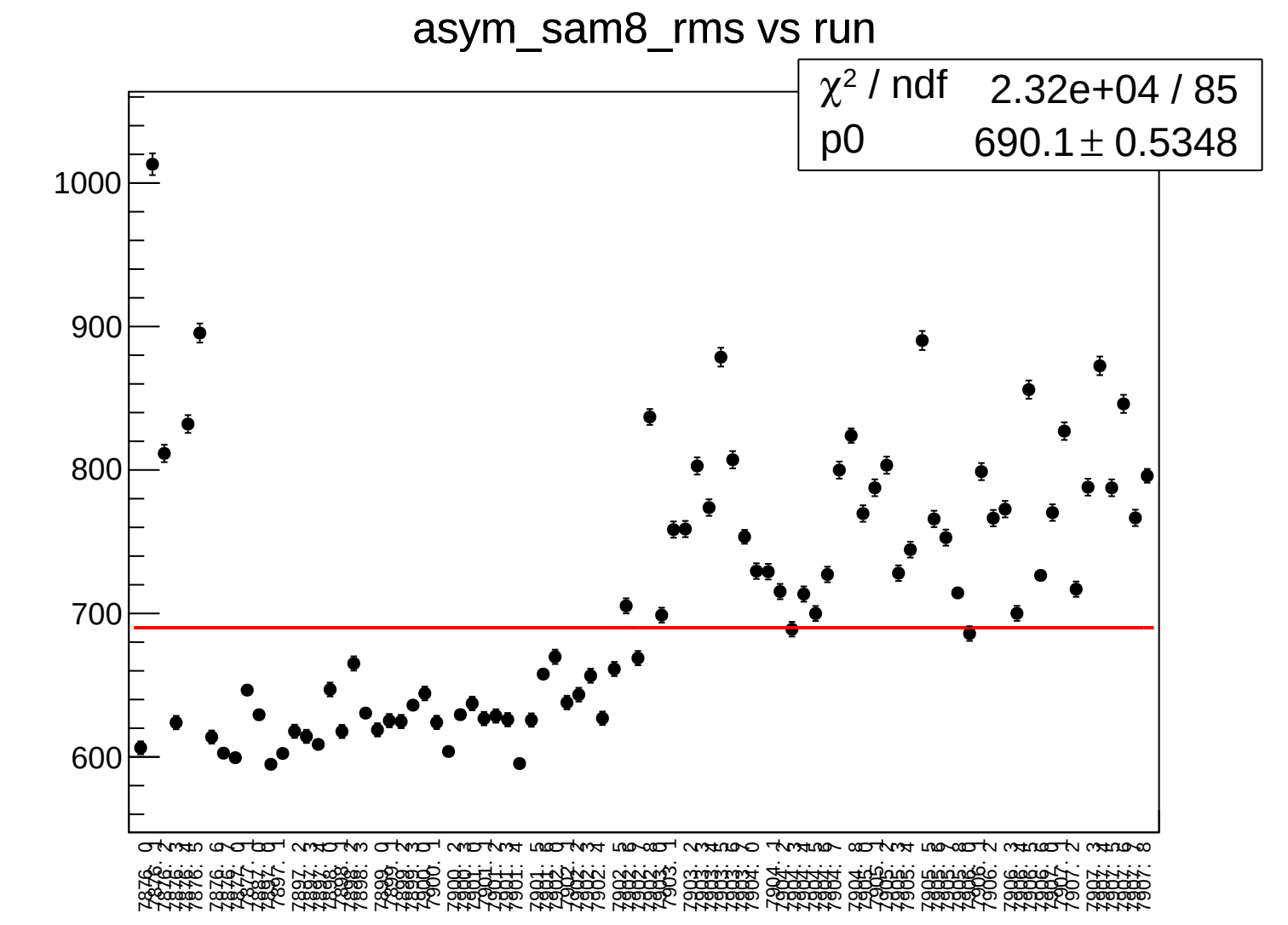

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 85.54 / 85
p0 −1318 ± 772.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −14.07
Std Dev 23.23
3
2
1
0
−1
−2

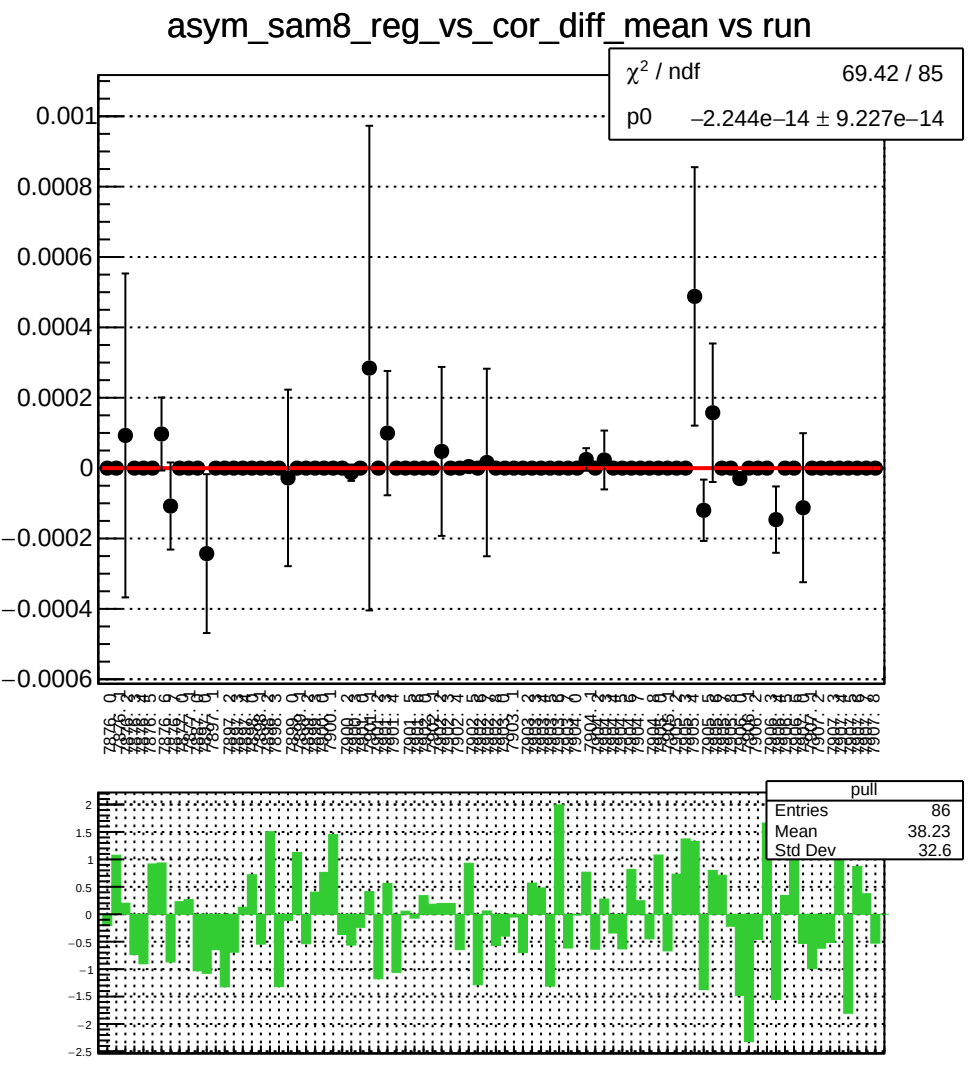

pull1D
Entries 86
Mean 0.01742
Std Dev 0.9972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

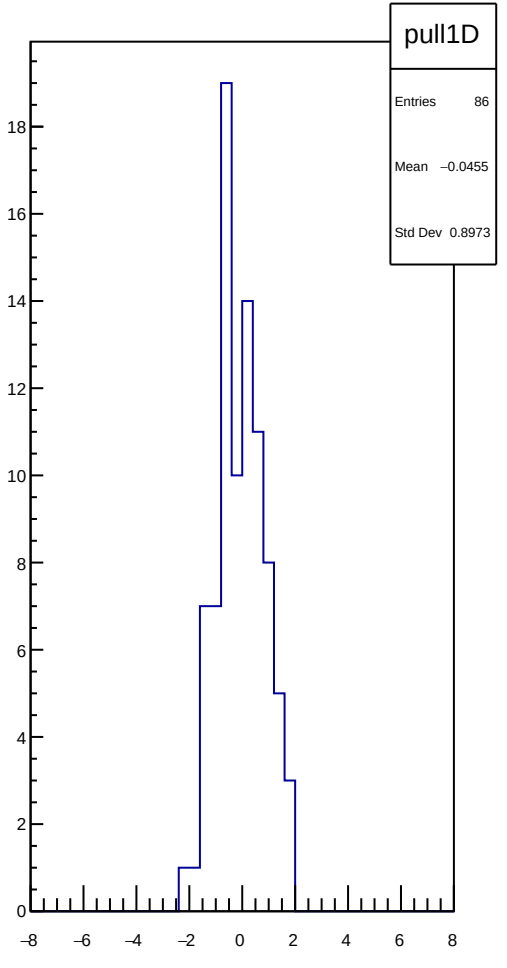

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 2.275e+04 / 85
p0 704.9 ± 0.5463
1000
950
900
850
800
750
700
650
600
550

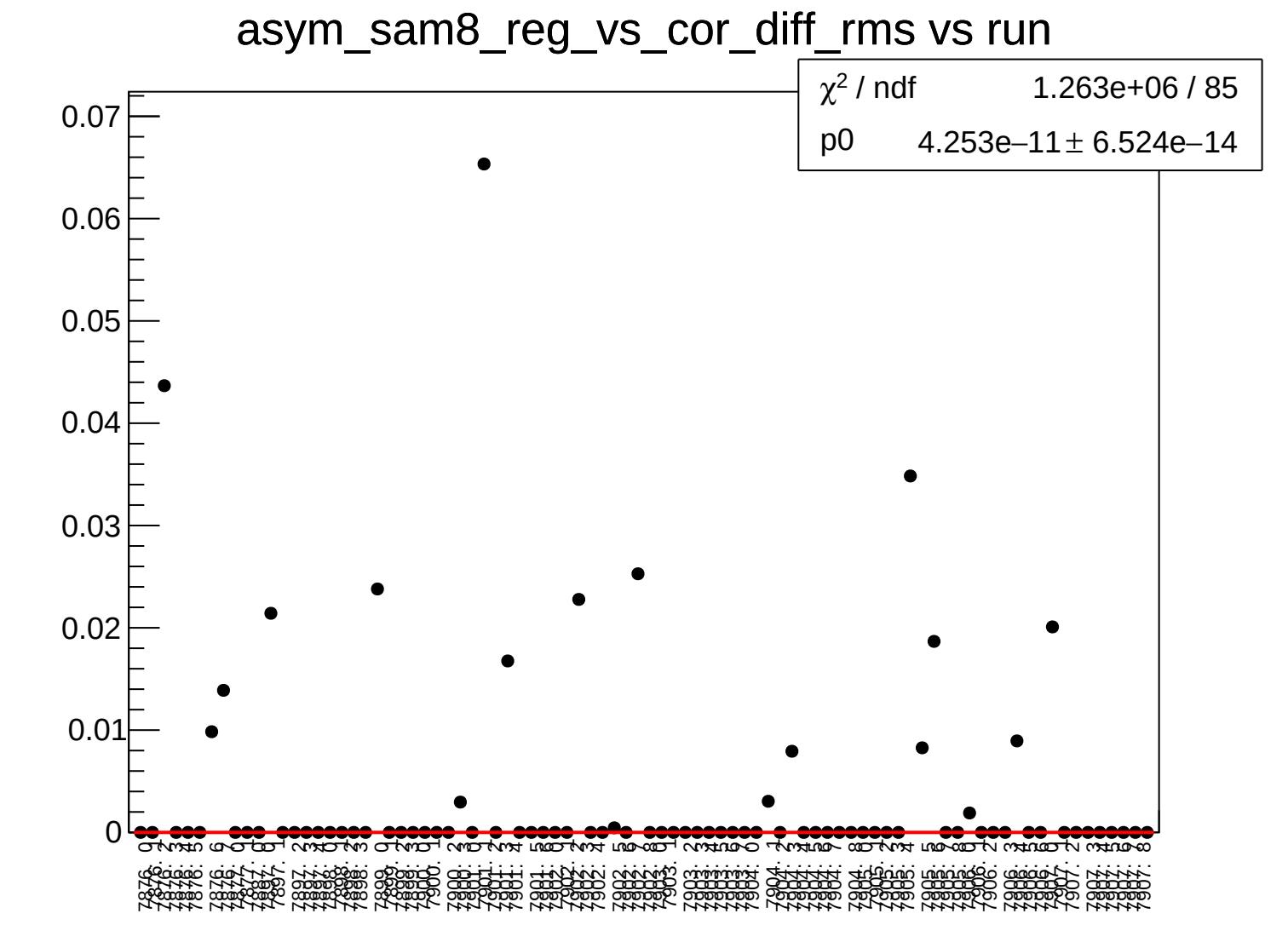

asym_sam8_mean vs run
χ^2 / ndf 83.86 / 85
p0 1190 ± 756.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 27.95
Std Dev 51.46
2
1
0
−1
−2
−3

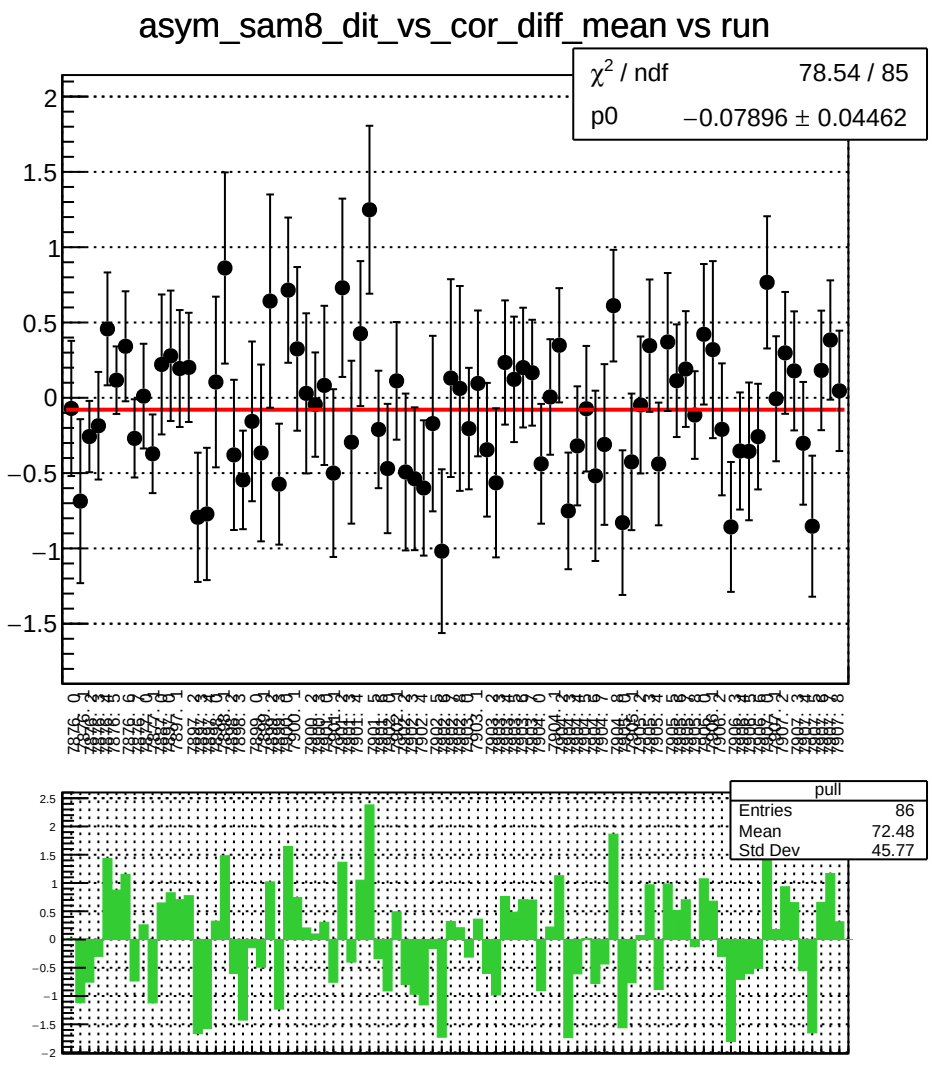

pull1D
Entries 86
Mean −0.01807
Std Dev 0.9873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

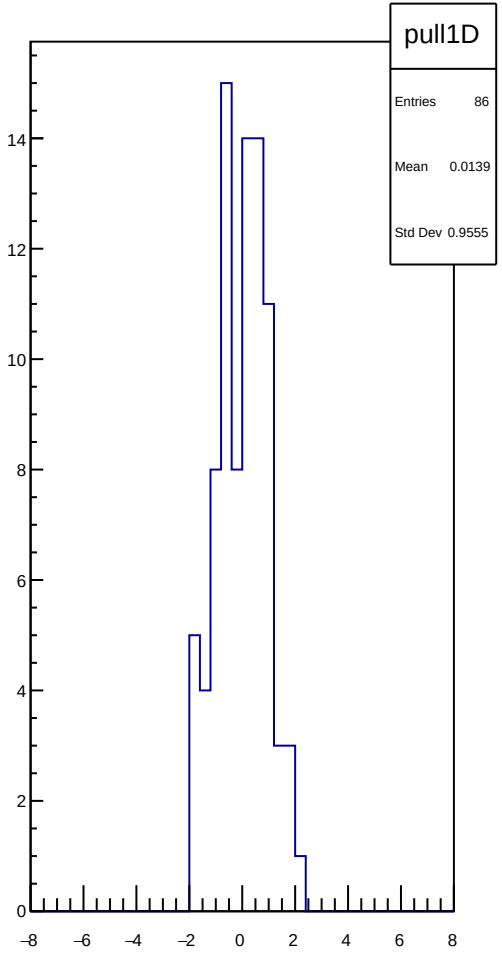

asym_sam8_rms vs run
χ² / ndf 2.32e+04 / 85
p0 690.1 ± 0.5348
1000
900
800
700
600

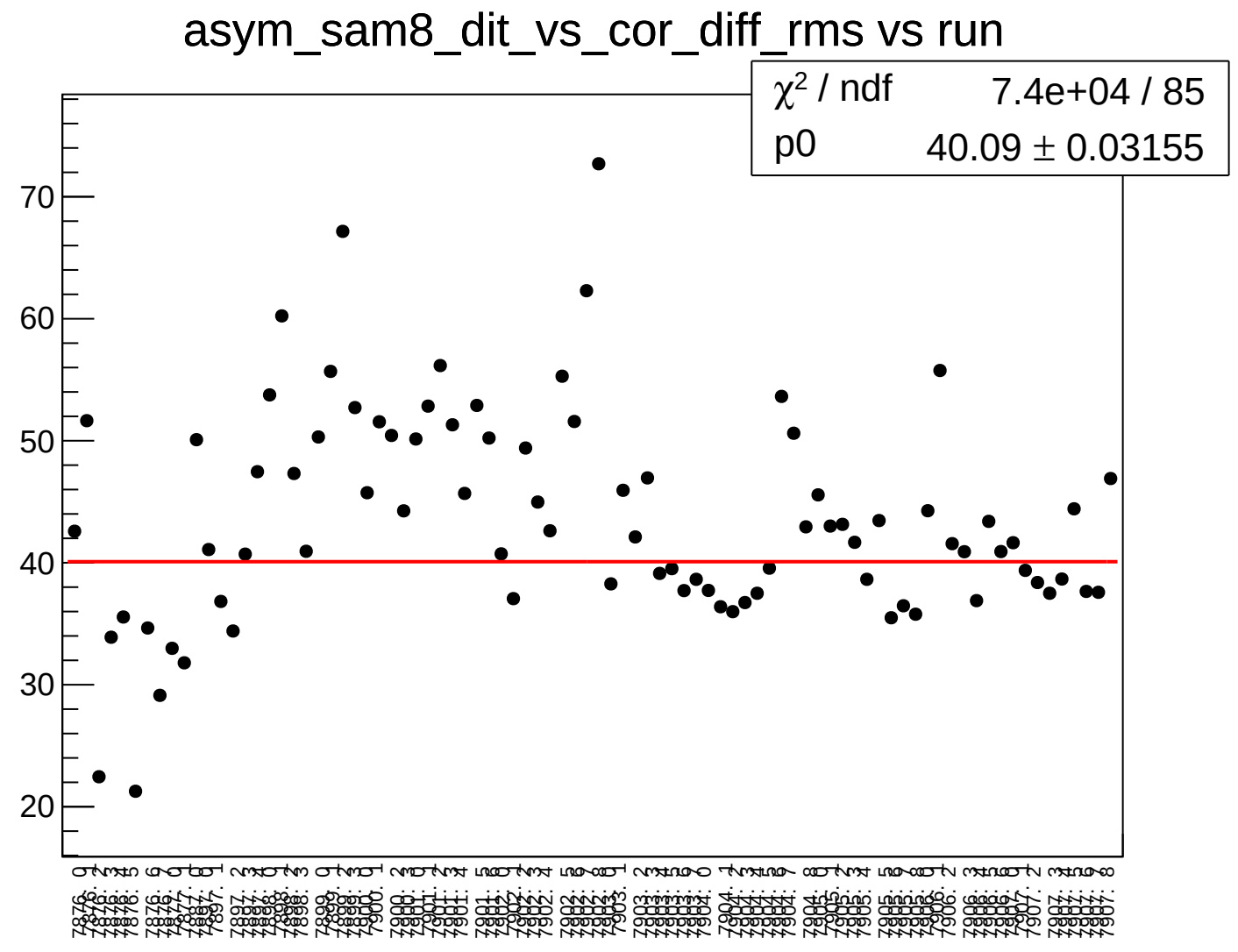

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 69.42 / 85
p0 −2.244e−14 ± 9.227e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 86
Mean 38.23
Std Dev 32.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

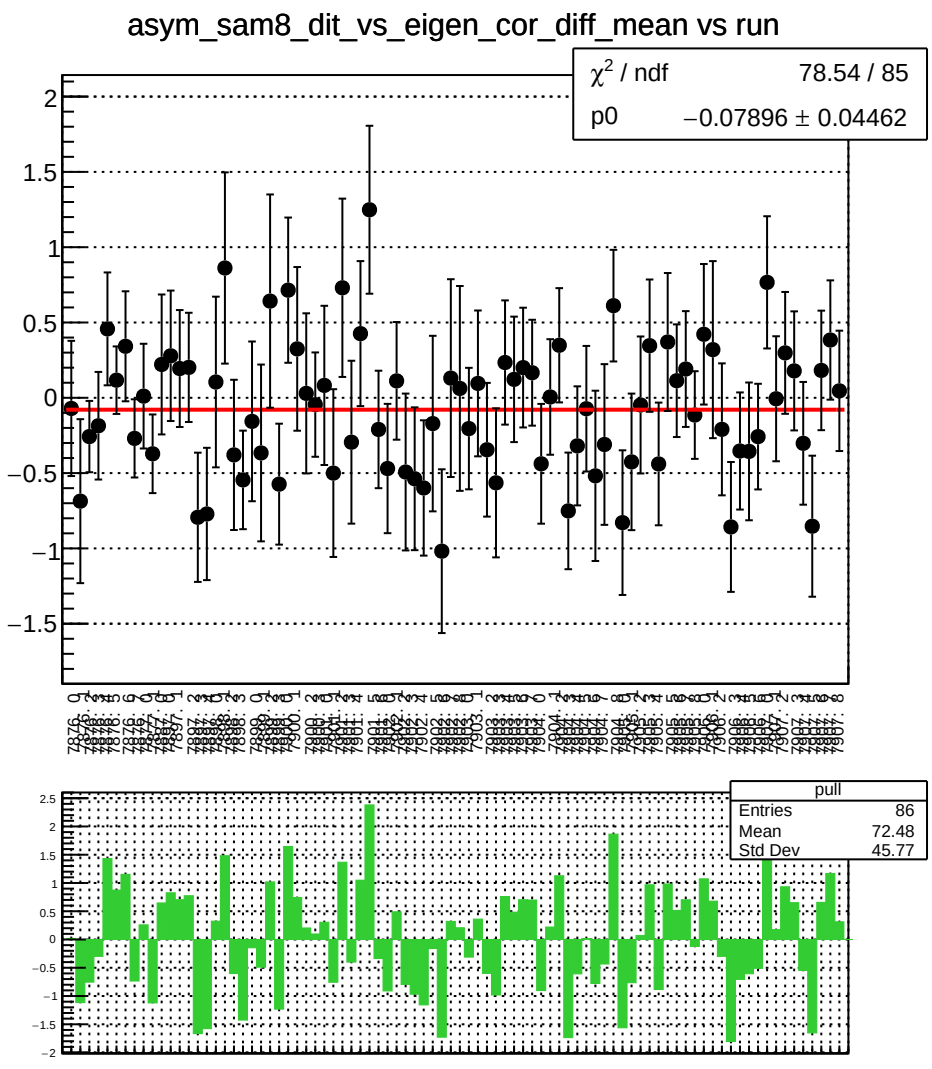

pull1D
Entries 86
Mean −0.0455
Std Dev 0.8973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

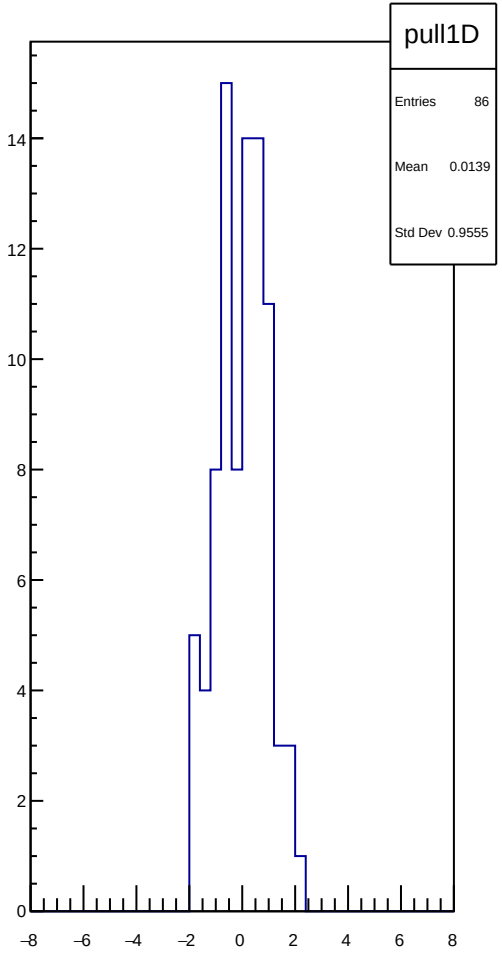

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.263e+06 / 85
p0 4.253e−11 ± 6.524e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

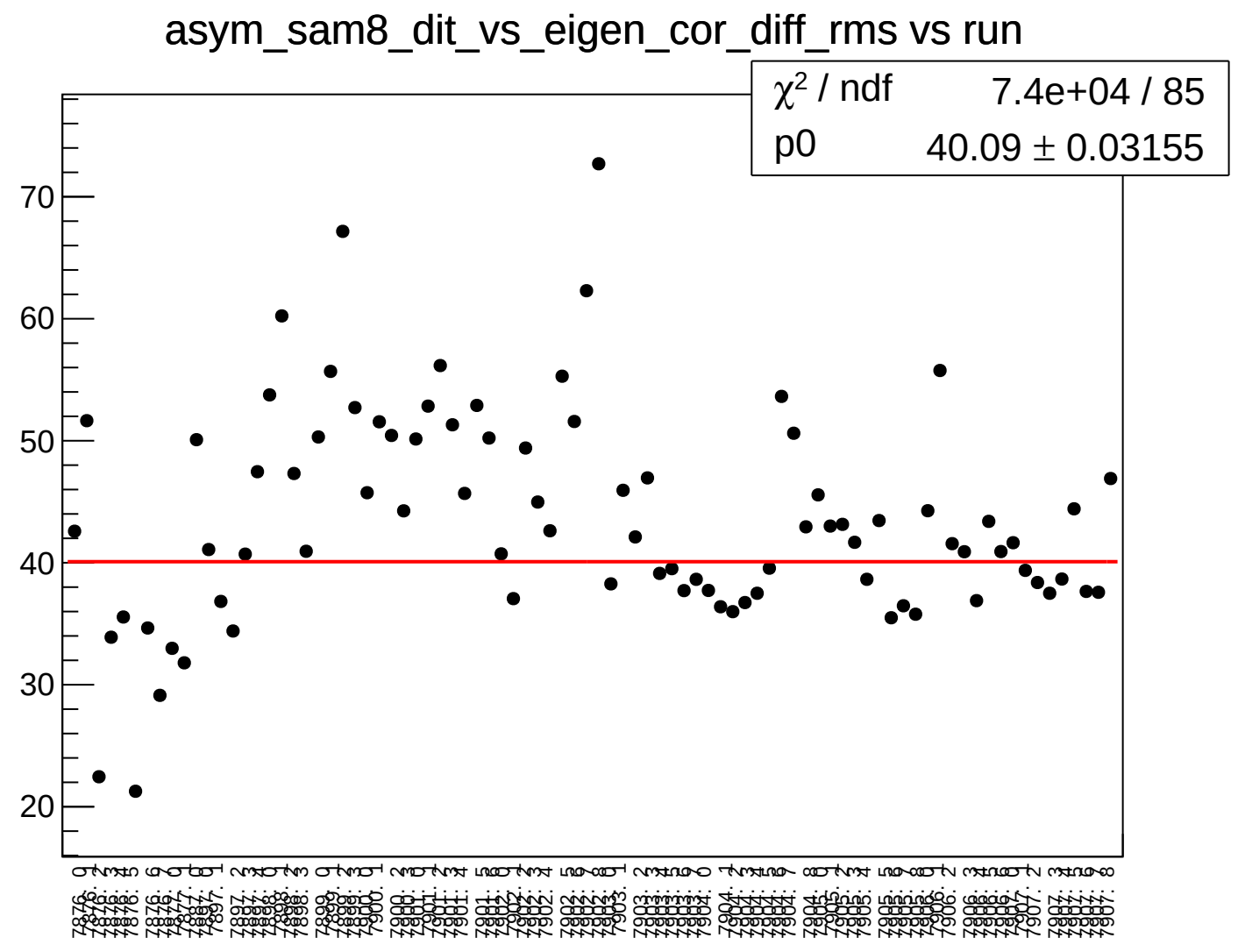

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 85
p0 −0.07896 ± 0.04462
pull
Entries 86
Mean 72.48
Std Dev 45.77

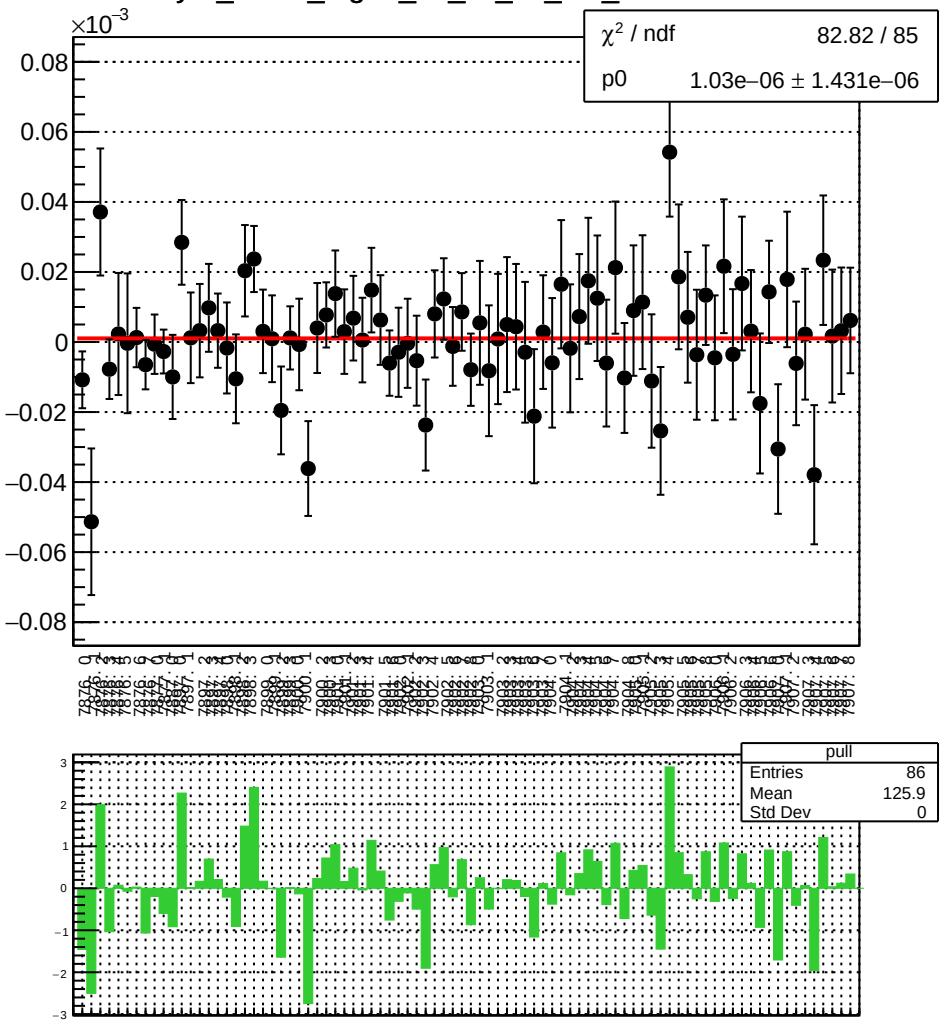

pull1D
Entries 86
Mean 0.0139
Std Dev 0.9555

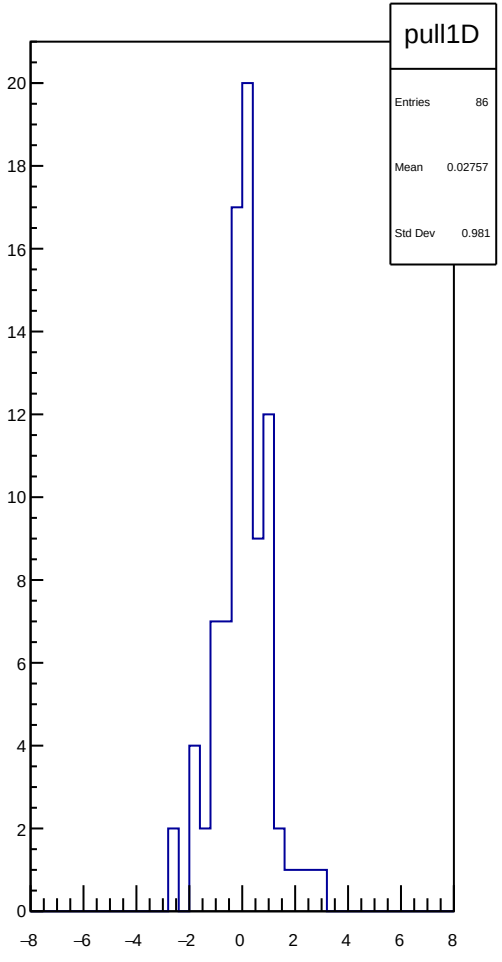

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 7.4e+04 / 85
p0 40.09 ± 0.03155
70
60
50
40
30
20

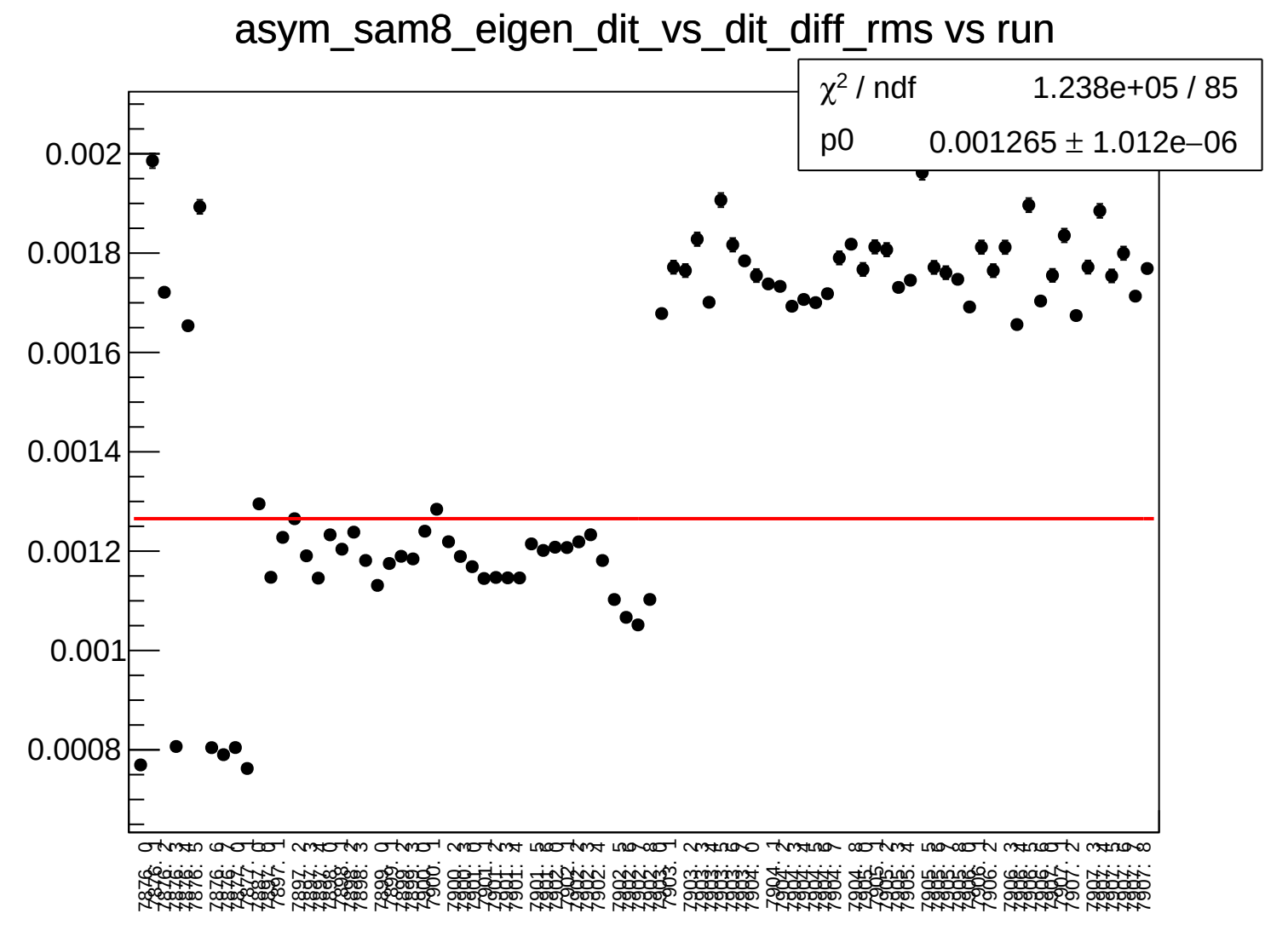

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 85
p0 −0.07896 ± 0.04462
pull
Entries 86
Mean 72.48
Std Dev 45.77

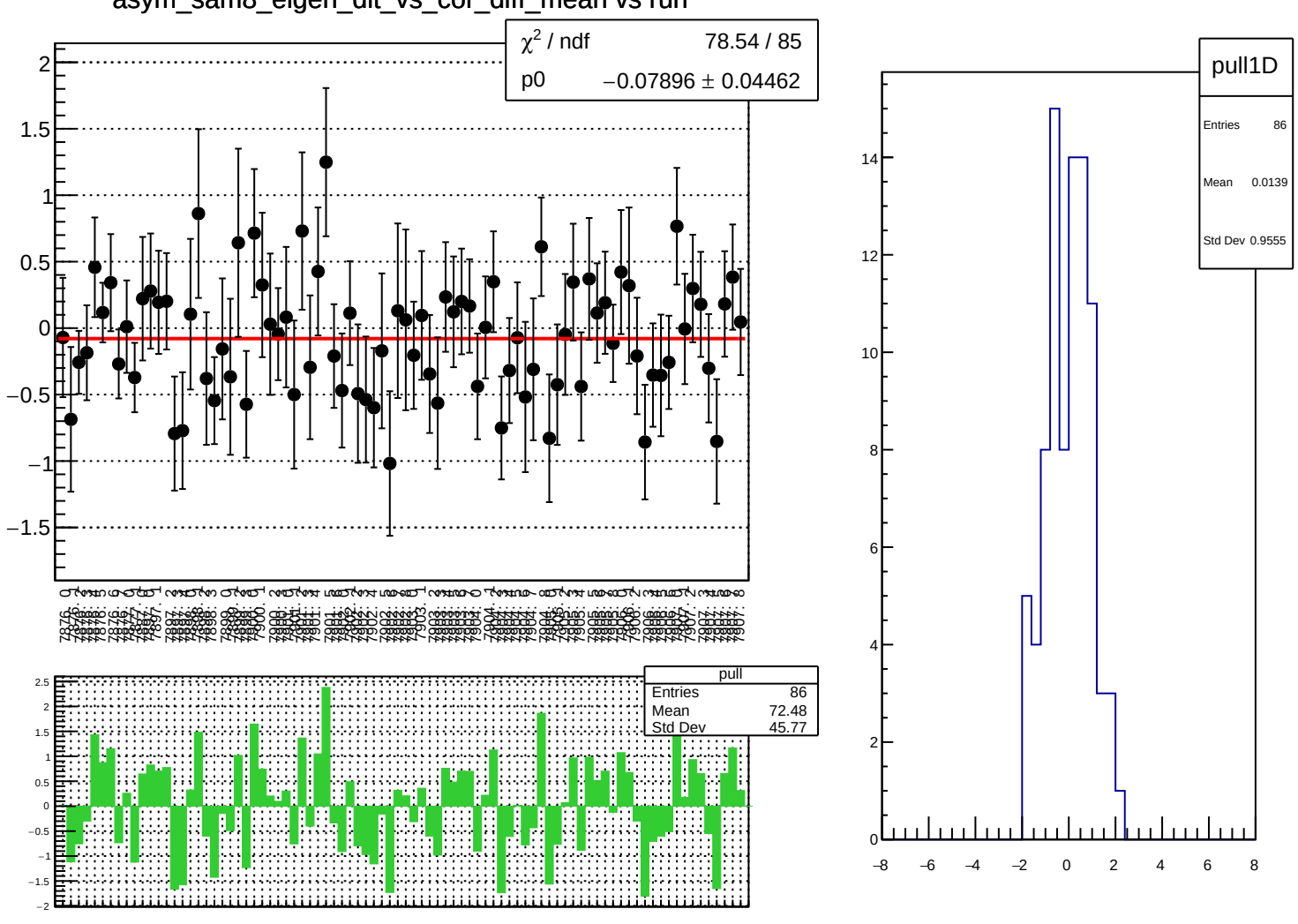

pull1D
Entries 86
Mean 0.0139
Std Dev 0.9555

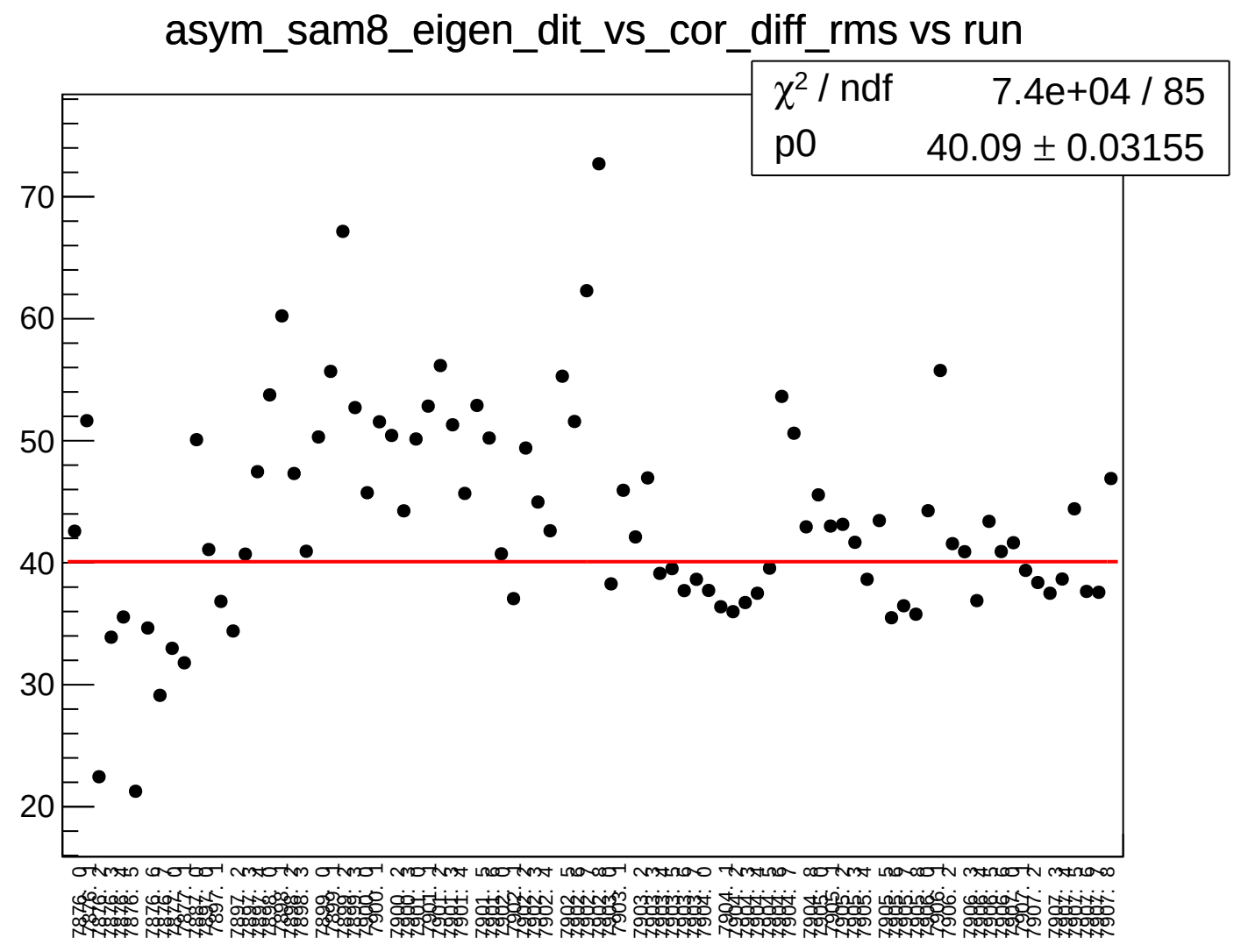

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.4e+04 / 85
p0 40.09 ± 0.03155
70
60
50
40
30
20

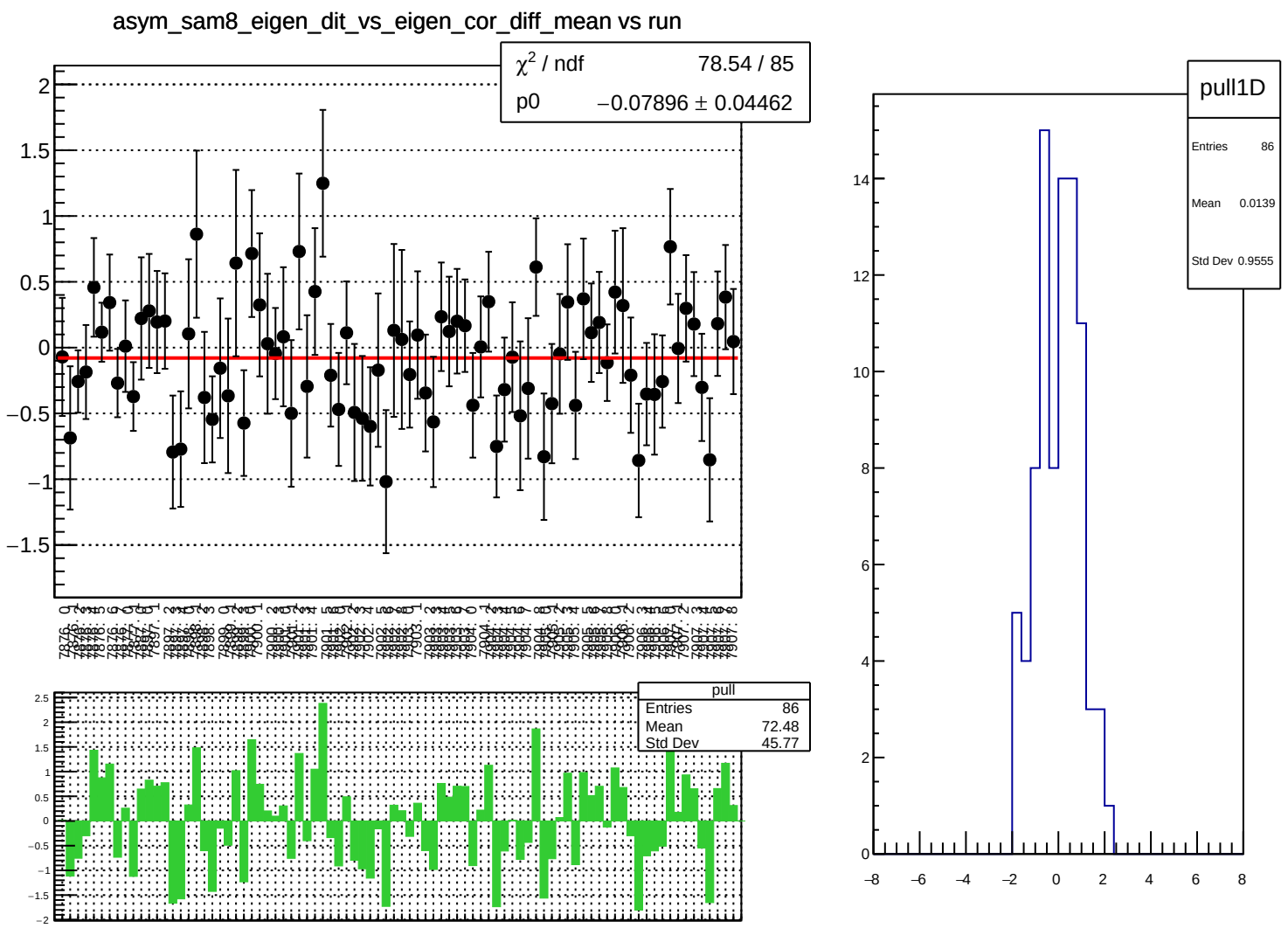

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 82.82 / 85
p0 1.03e−06 ± 1.431e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean 125.9
Std Dev 0
3
2
1
0
−1
−2
−3

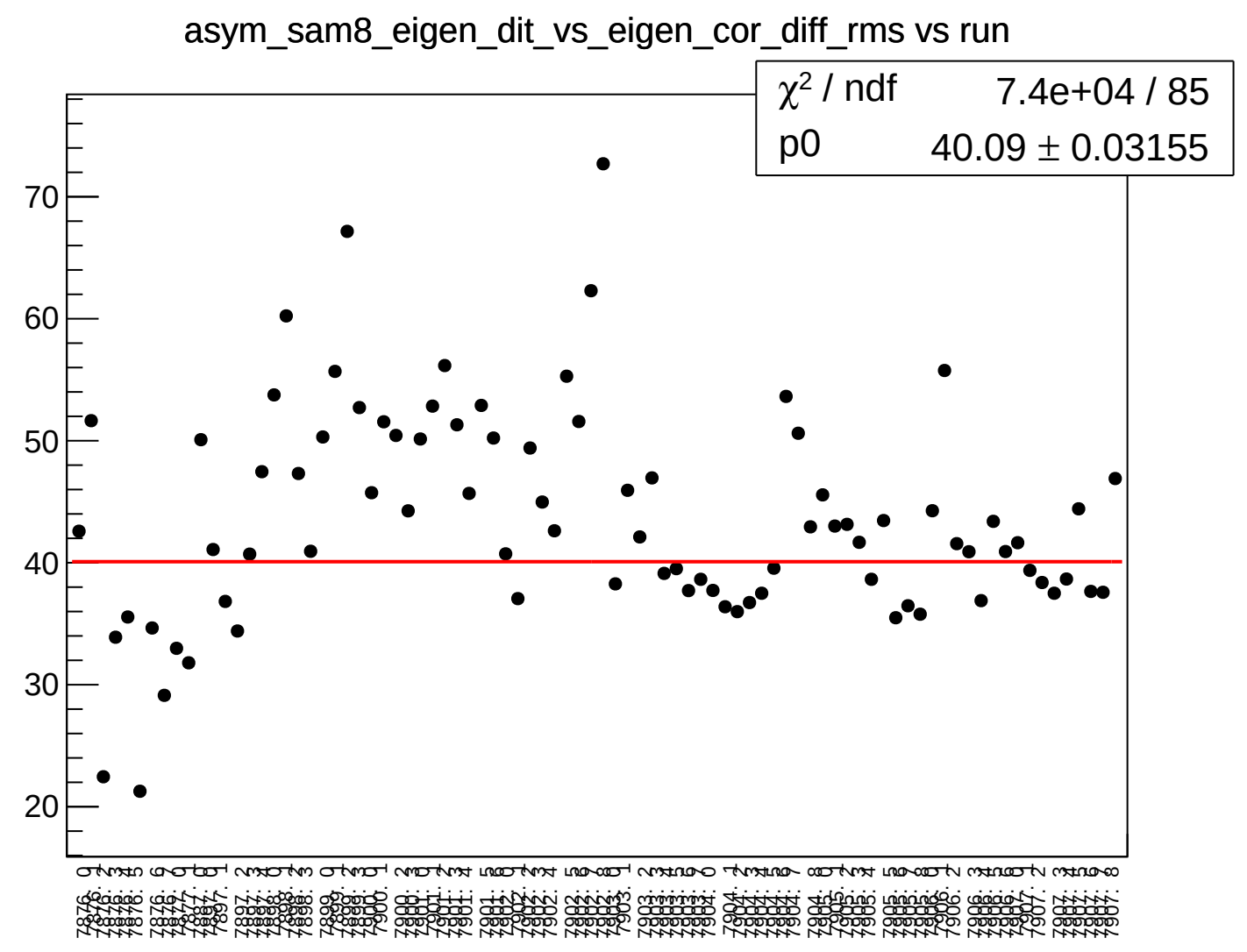

pull1D
Entries 86
Mean 0.02757
Std Dev 0.981
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

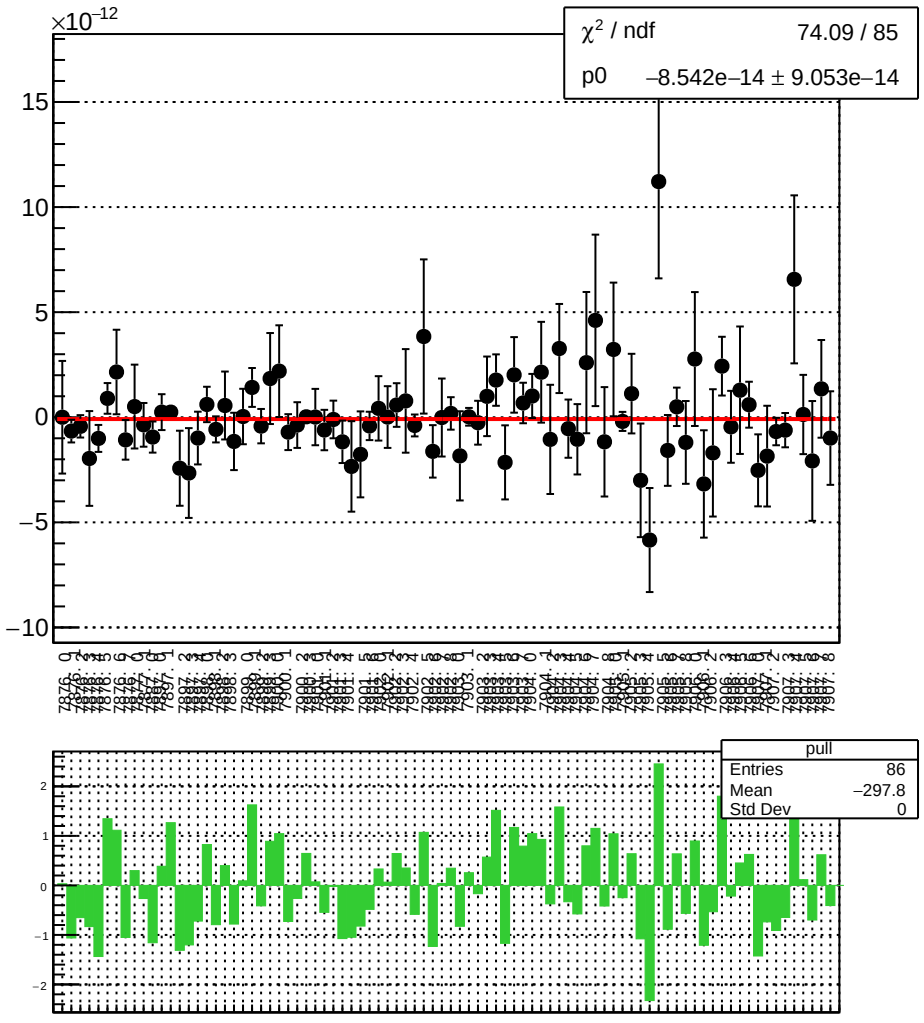

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.238e+05 / 85
p0 0.001265 ± 1.012e−06
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

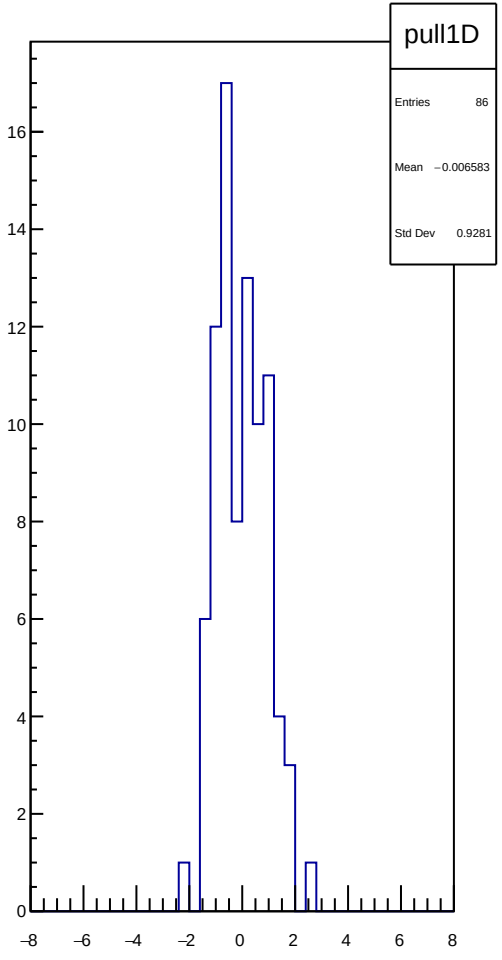

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 85
p0 −0.07896 ± 0.04462
pull
Entries 86
Mean 72.48
Std Dev 45.77
pull1D
Entries 86
Mean 0.0139
Std Dev 0.9555

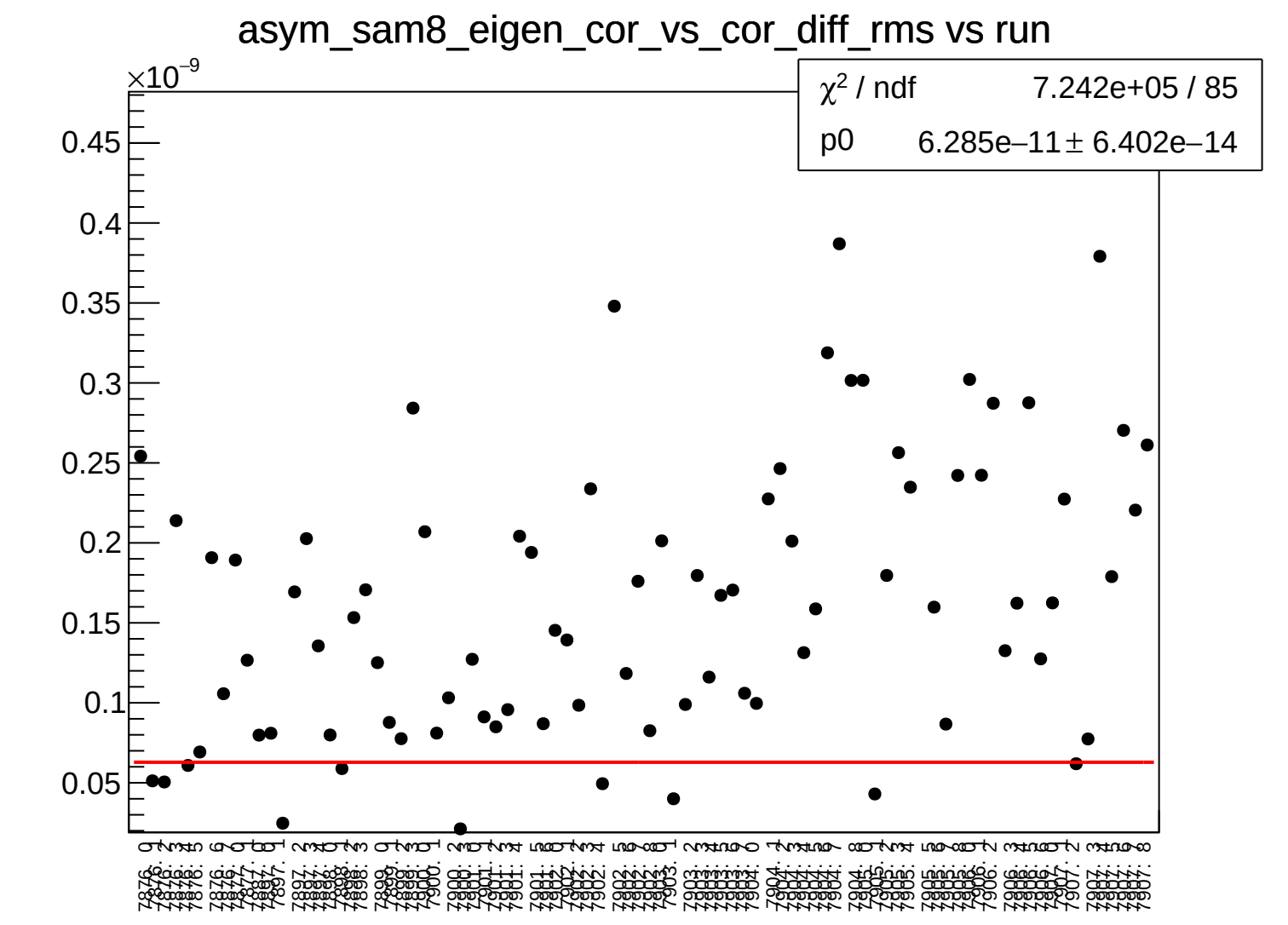

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.4e+04 / 85
p0 40.09 ± 0.03155
70
60
50
40
30
20

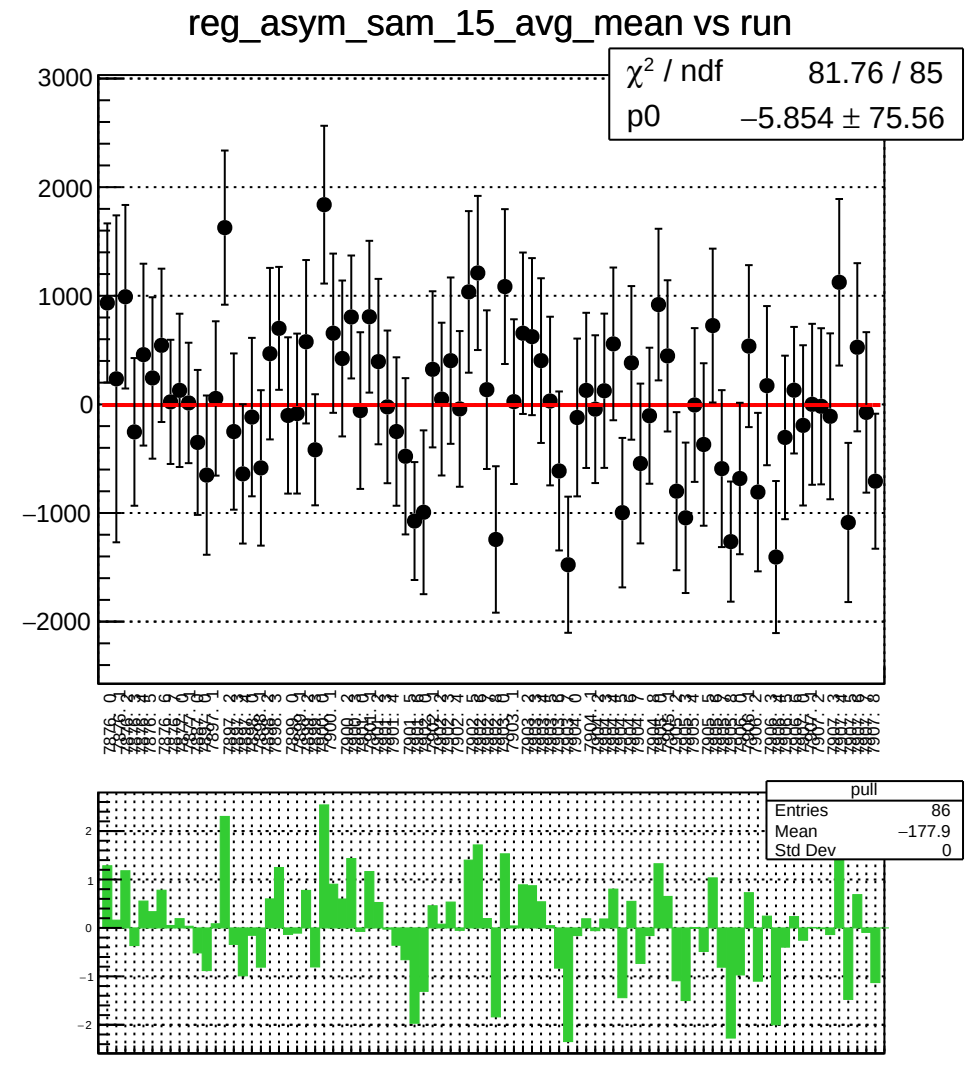

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 85
p0 −0.07896 ± 0.04462
pull
Entries 86
Mean 72.48
Std Dev 45.77
pull1D
Entries 86
Mean 0.0139
Std Dev 0.9555

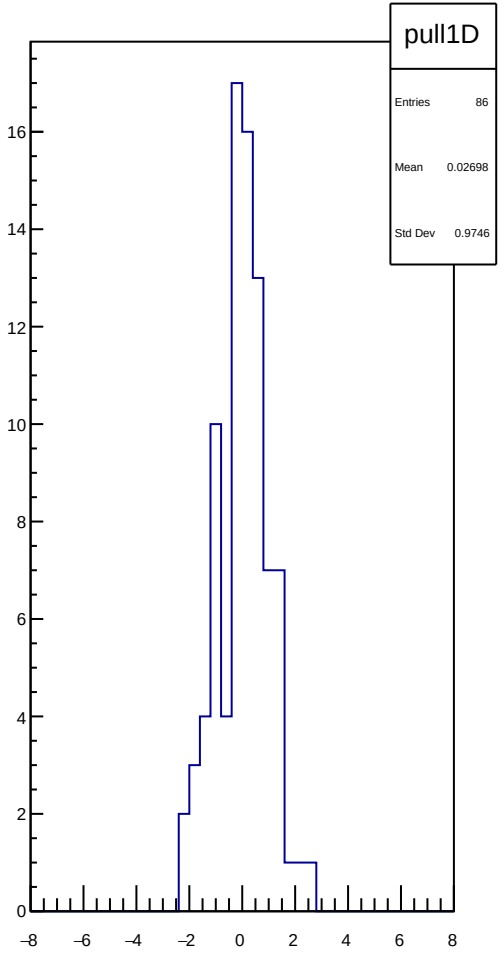

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.4e+04 / 85
p0 40.09 ± 0.03155
70
60
50
40
30
20

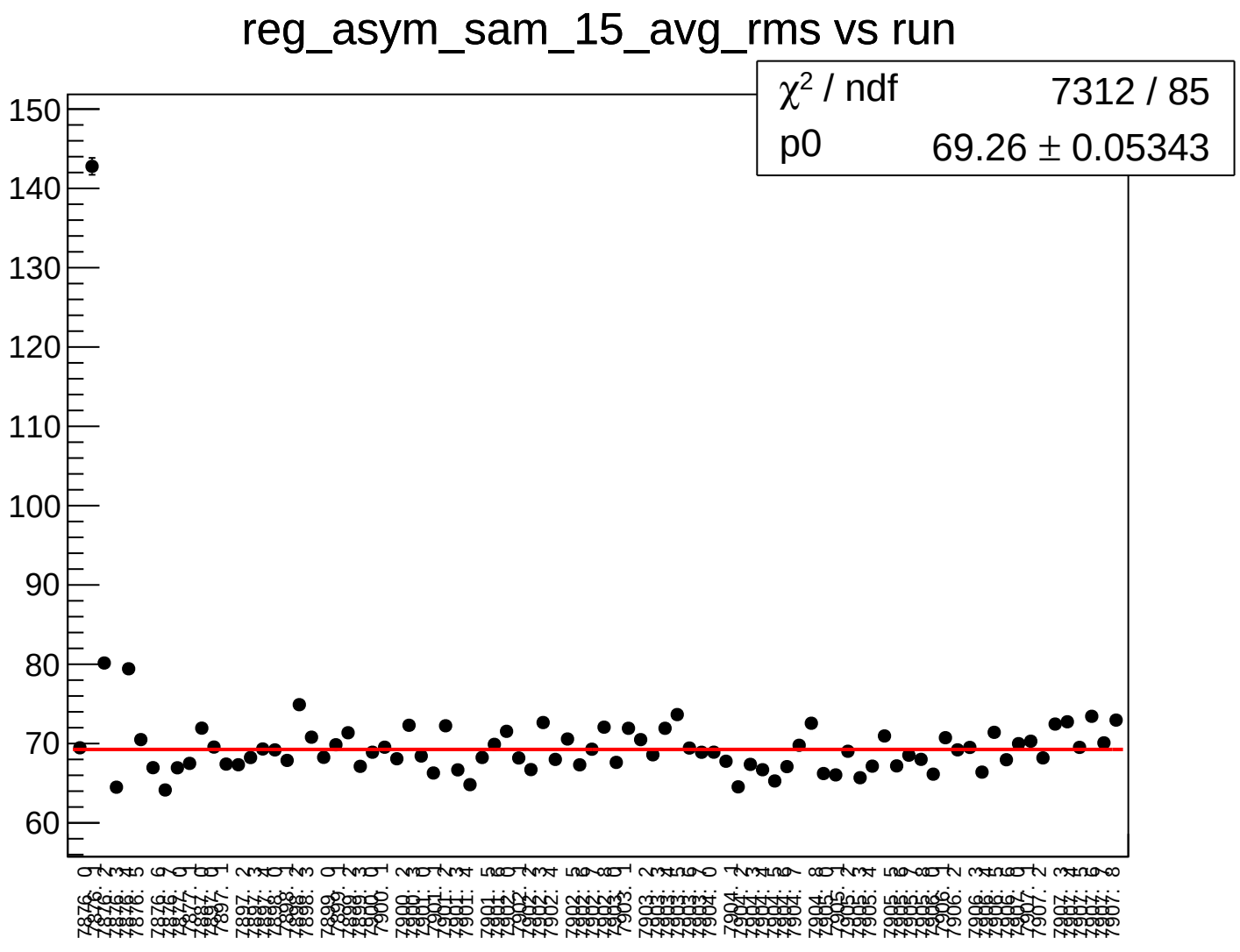

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.09 / 85
p0 −8.542e−14 ± 9.053e−14
pull
Entries 86
Mean −297.8
Std Dev 0

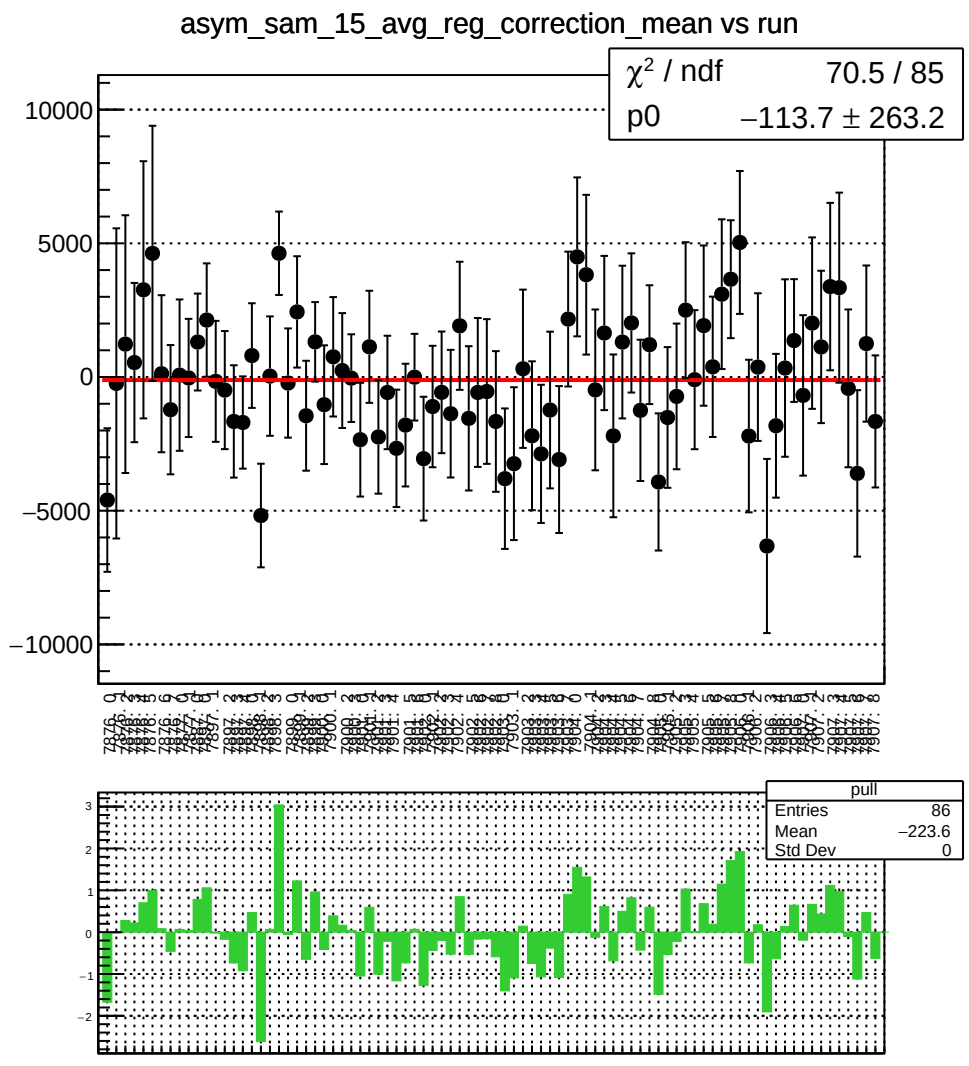

pull1D
Entries 86
Mean −0.006583
Std Dev 0.9281

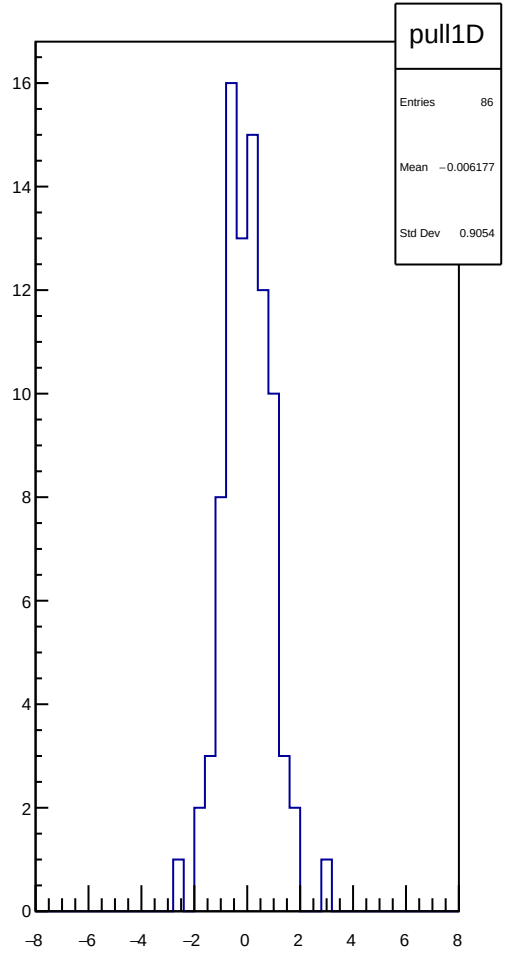

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.242e+05 / 85
p0 6.285e−11 ± 6.402e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

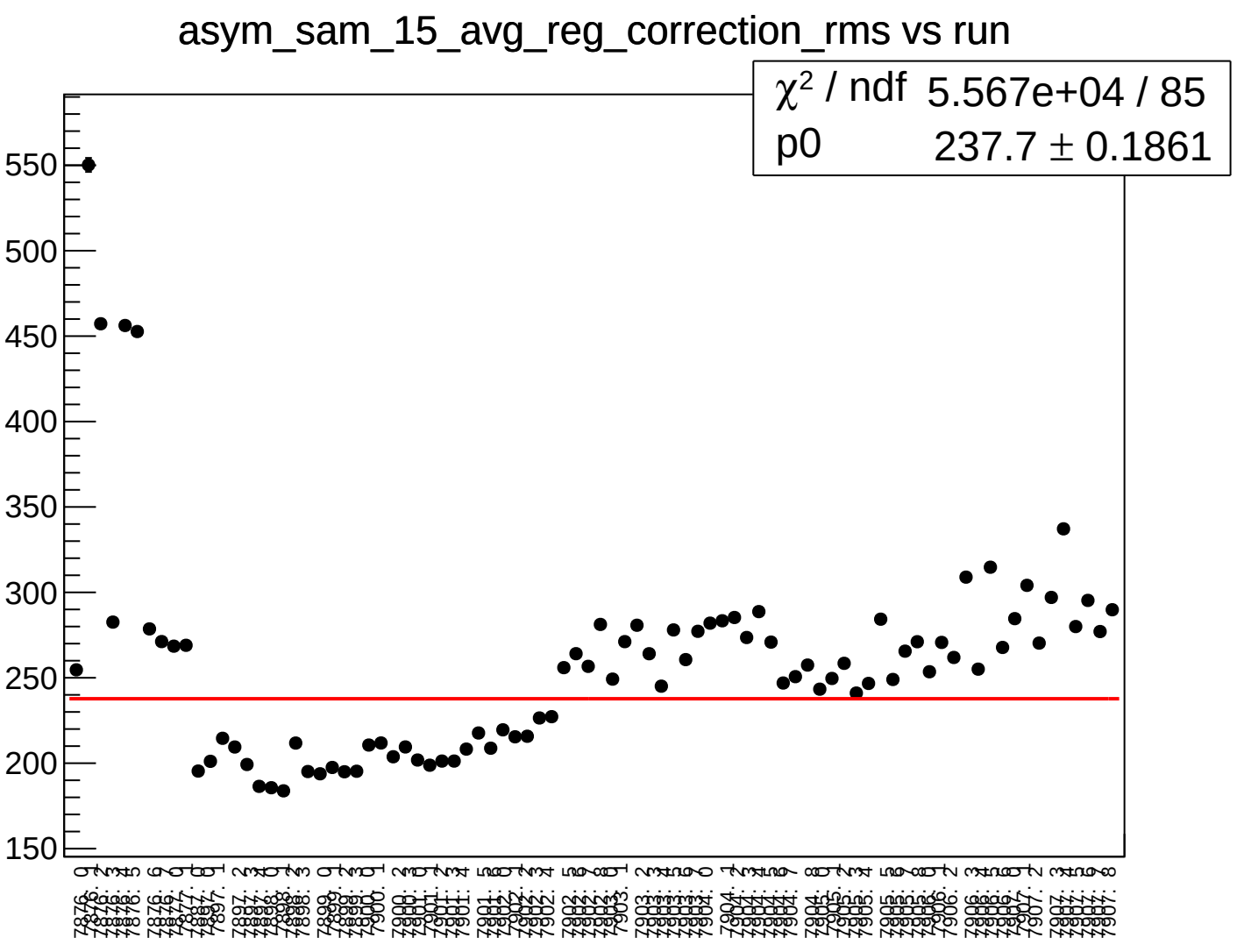

reg_asym_sam_15_avg_mean vs run
χ² / ndf 81.76 / 85
p0 −5.854 ± 75.56
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −177.9
Std Dev 0
2
1
0
−1
−2

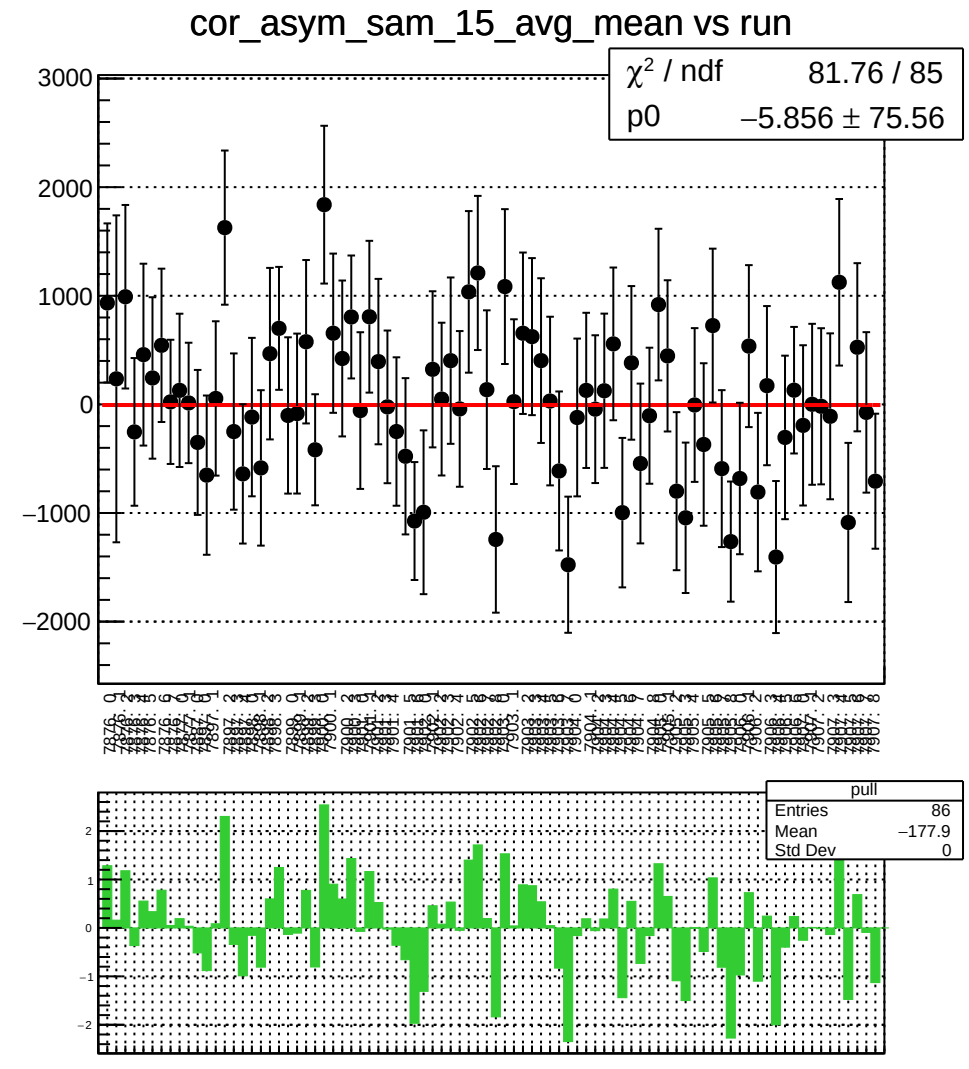

pull1D
Entries 86
Mean 0.02698
Std Dev 0.9746
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

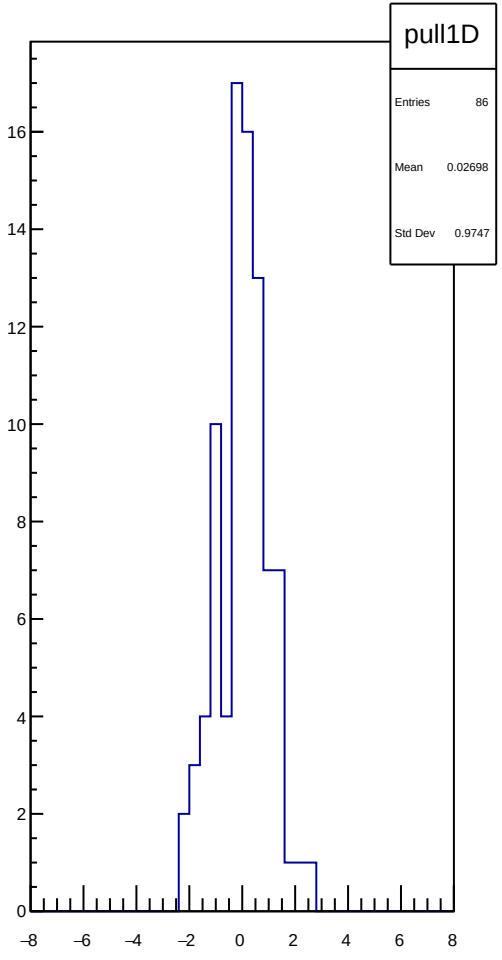

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 7312 / 85
p0 69.26 ± 0.05343
150
140
130
120
110
100
90
80
70
60

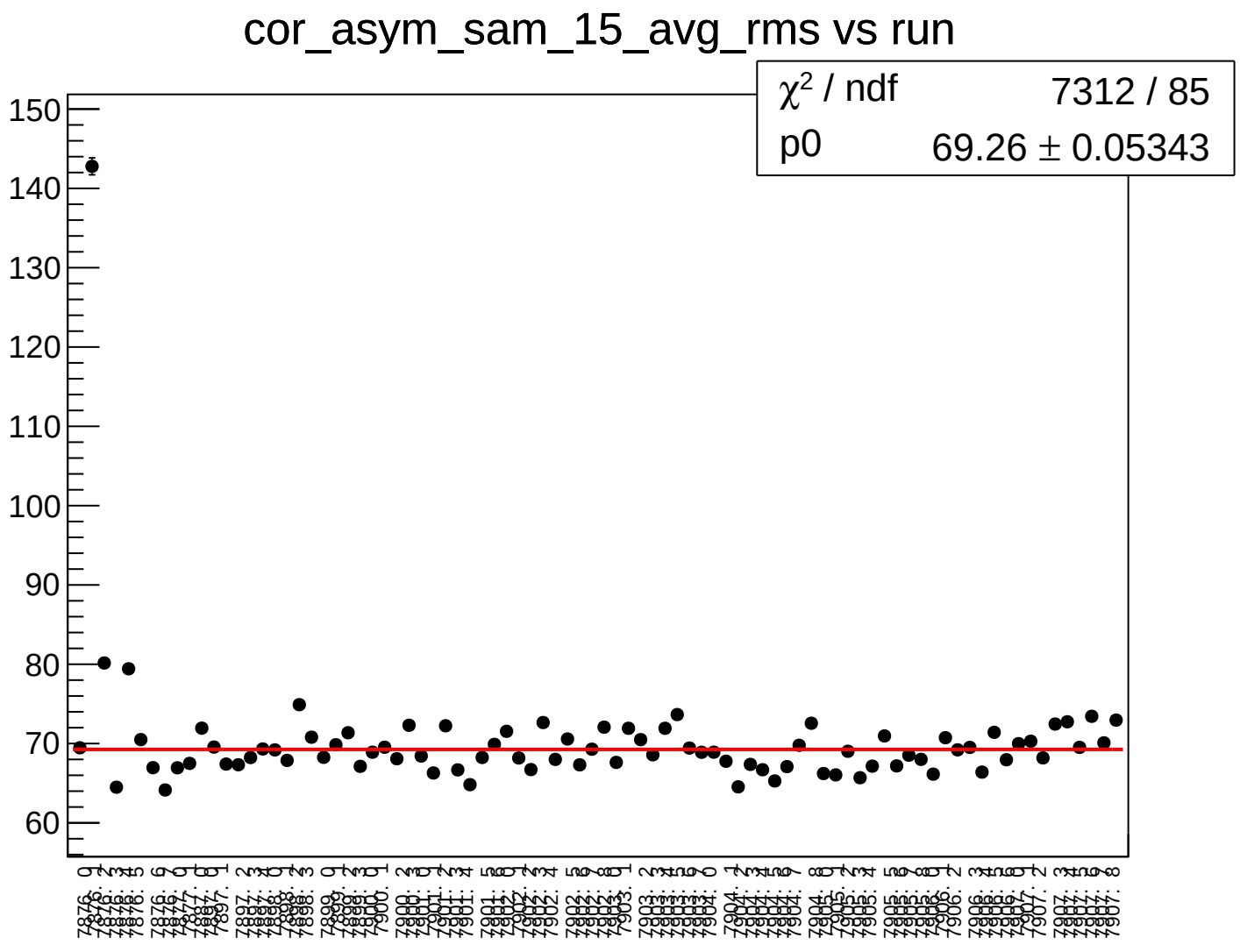

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 70.5 / 85
p0 −113.7 ± 263.2
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −223.6
Std Dev 0
3
2
1
0
−1
−2

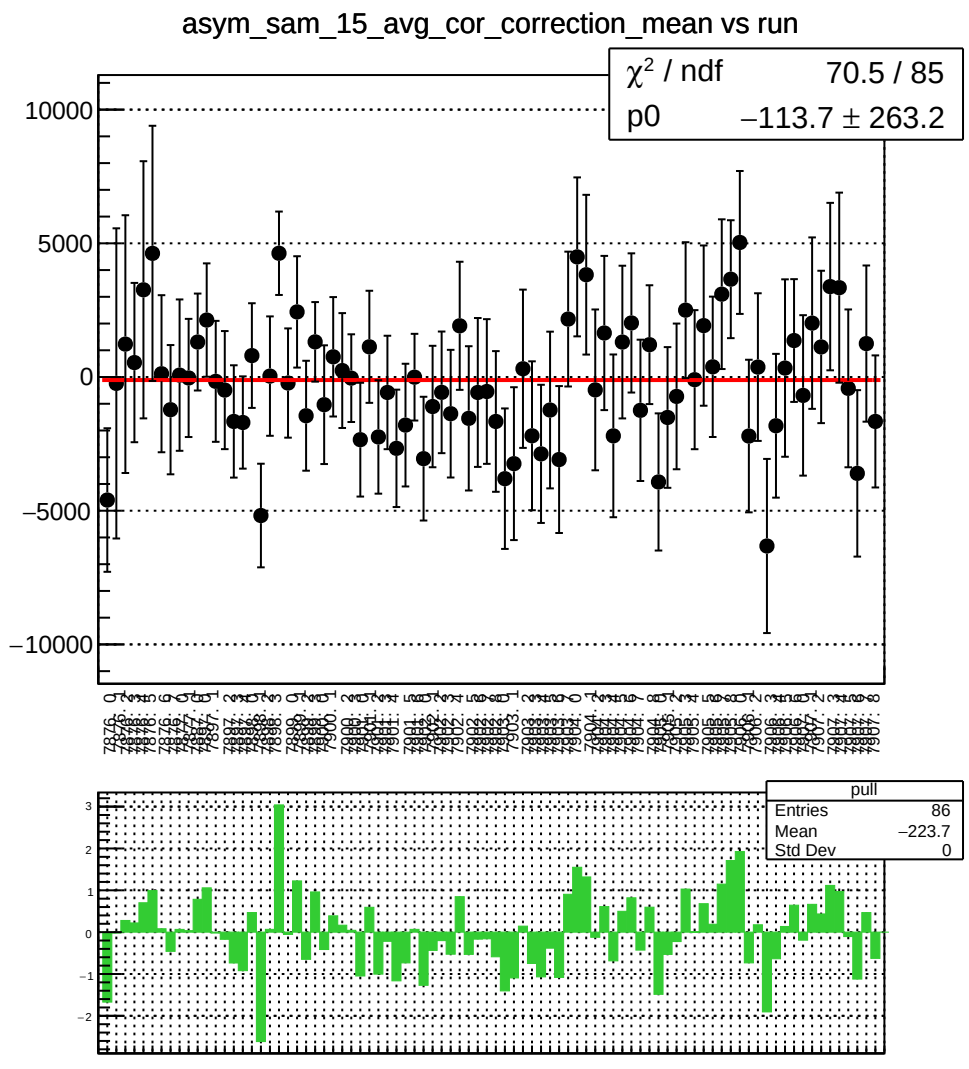

pull1D
Entries 86
Mean −0.006177
Std Dev 0.9054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

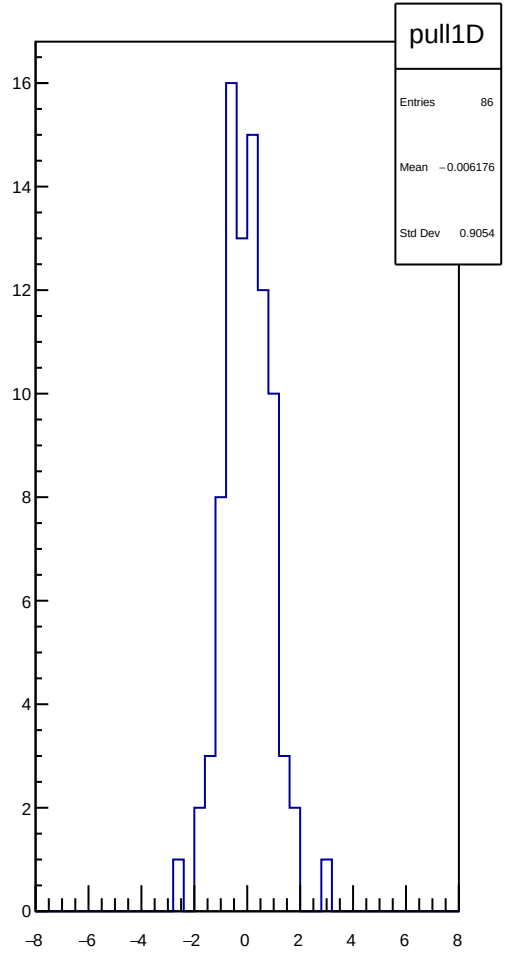

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 5.567e+04 / 85
p0 237.7 ± 0.1861
550
500
450
400
350
300
250
200
150

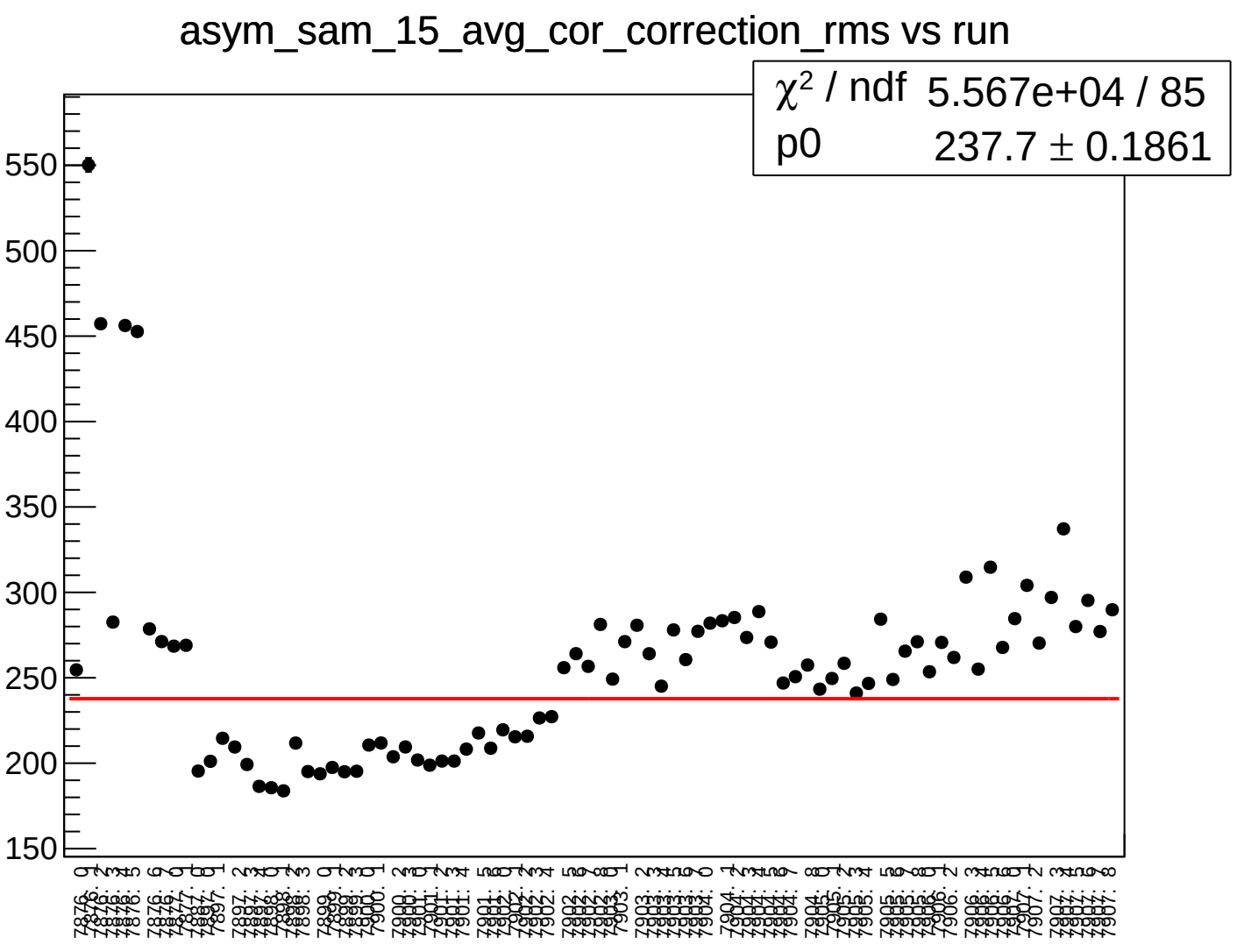

cor_asym_sam_15_avg_mean vs run
χ² / ndf 81.76 / 85
p0 −5.856 ± 75.56
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −177.9
Std Dev 0
2
1
0
−1
−2

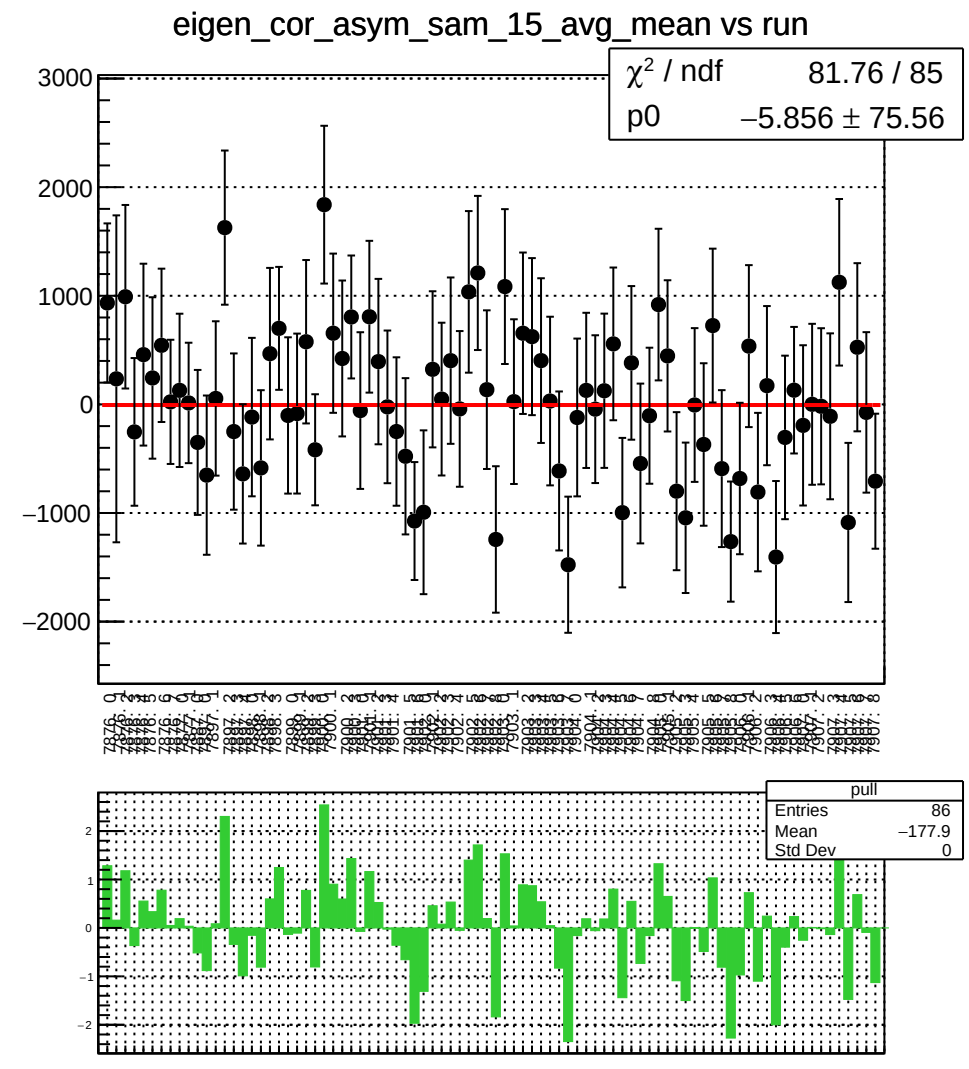

pull1D
Entries 86
Mean 0.02698
Std Dev 0.9747
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

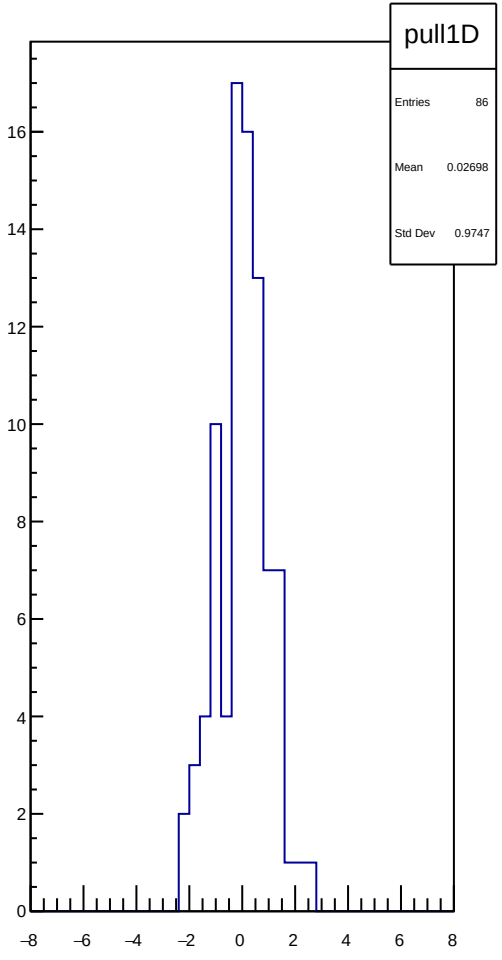

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 7312 / 85
p0 69.26 ± 0.05343
150
140
130
120
110
100
90
80
70
60

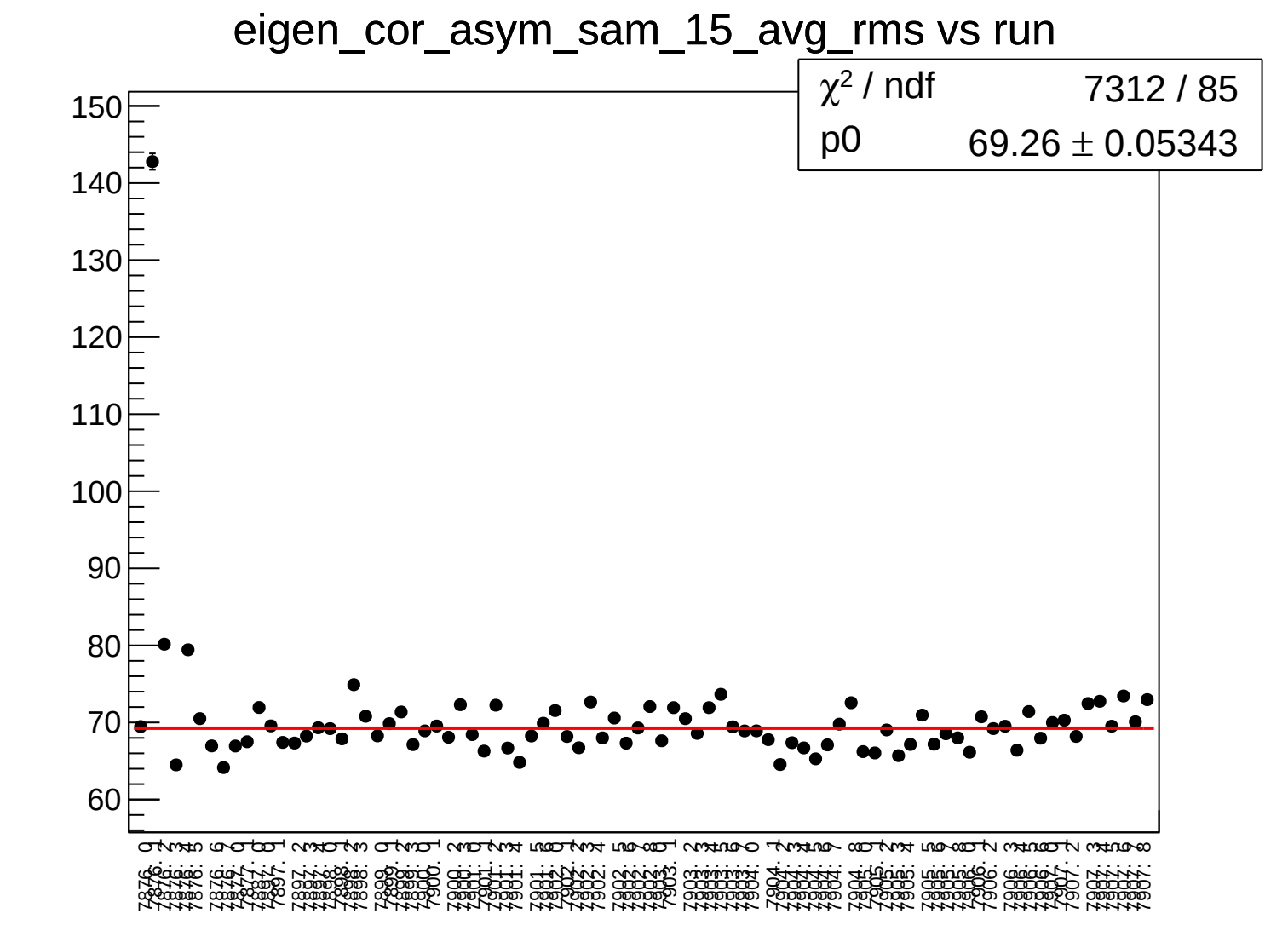

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 70.5 / 85
p0 −113.7 ± 263.2
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −223.7
Std Dev 0
3
2
1
0
−1
−2

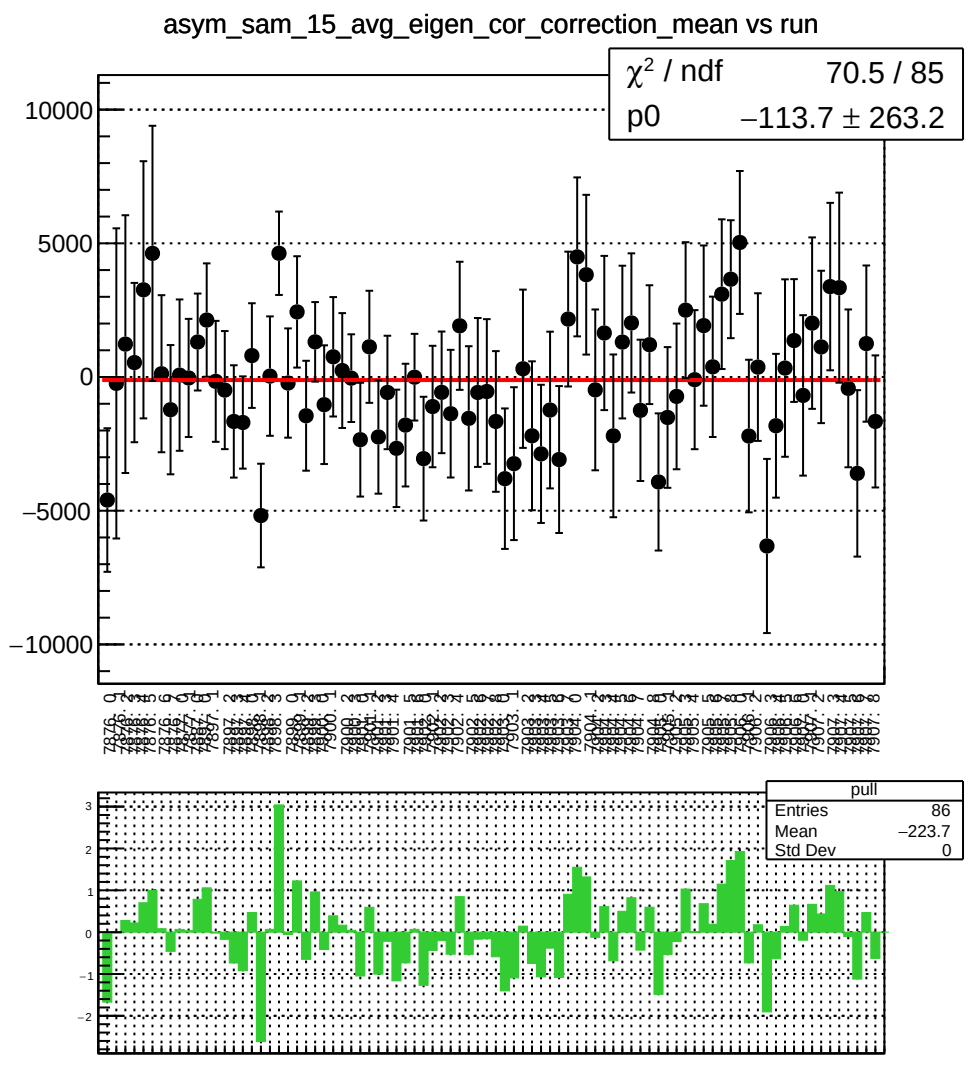

pull1D
Entries 86
Mean −0.006176
Std Dev 0.9054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

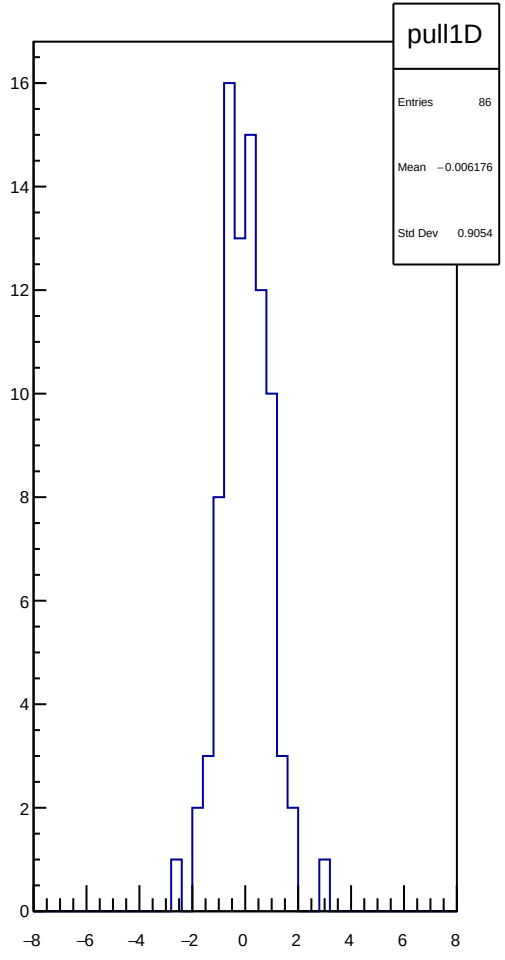

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 5.567e+04 / 85
p0 237.7 ± 0.1861
550
500
450
400
350
300
250
200
150

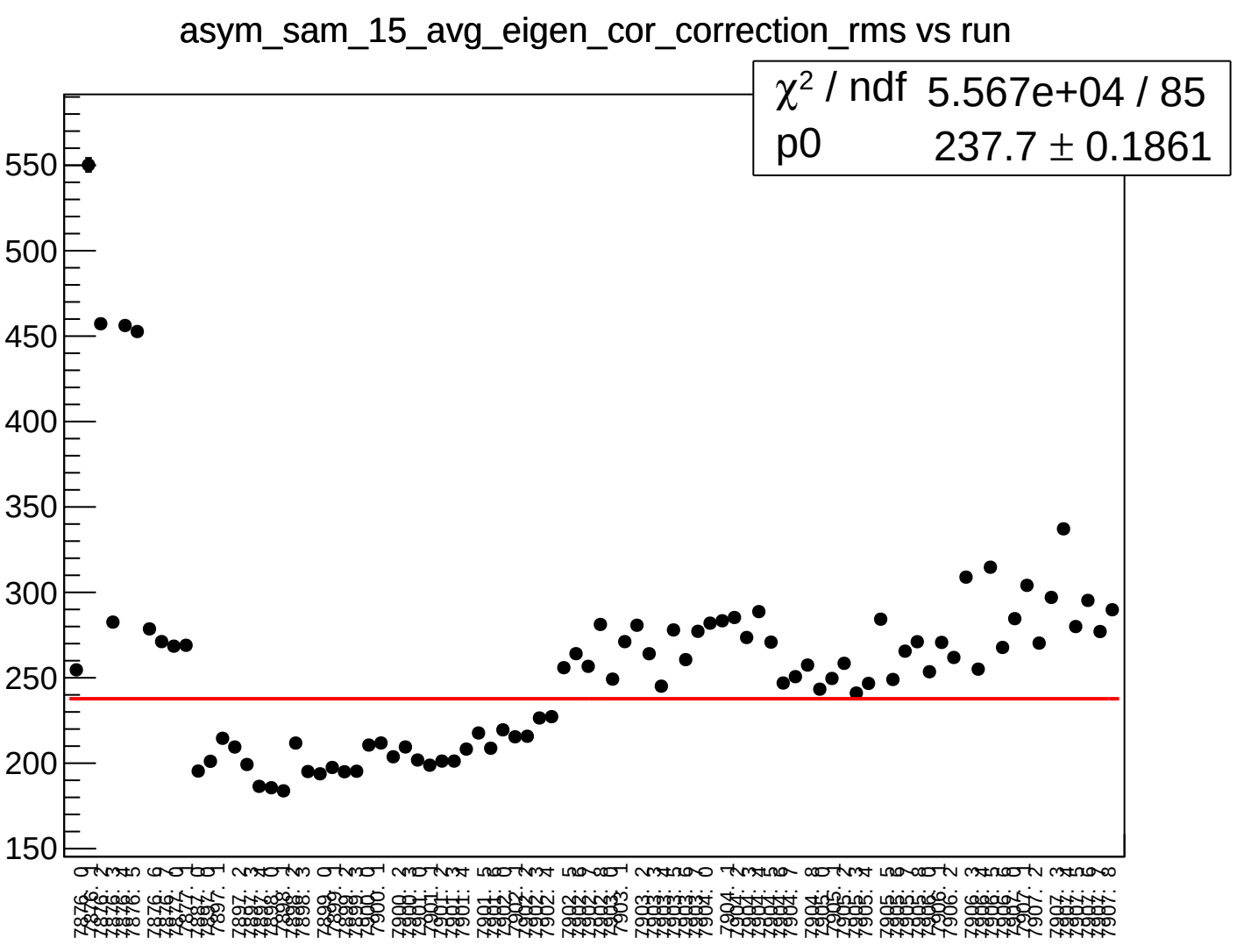

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 81.76 / 85
p0 −5.856 ± 75.56
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −177.9
Std Dev 0
2
1
0
−1
−2

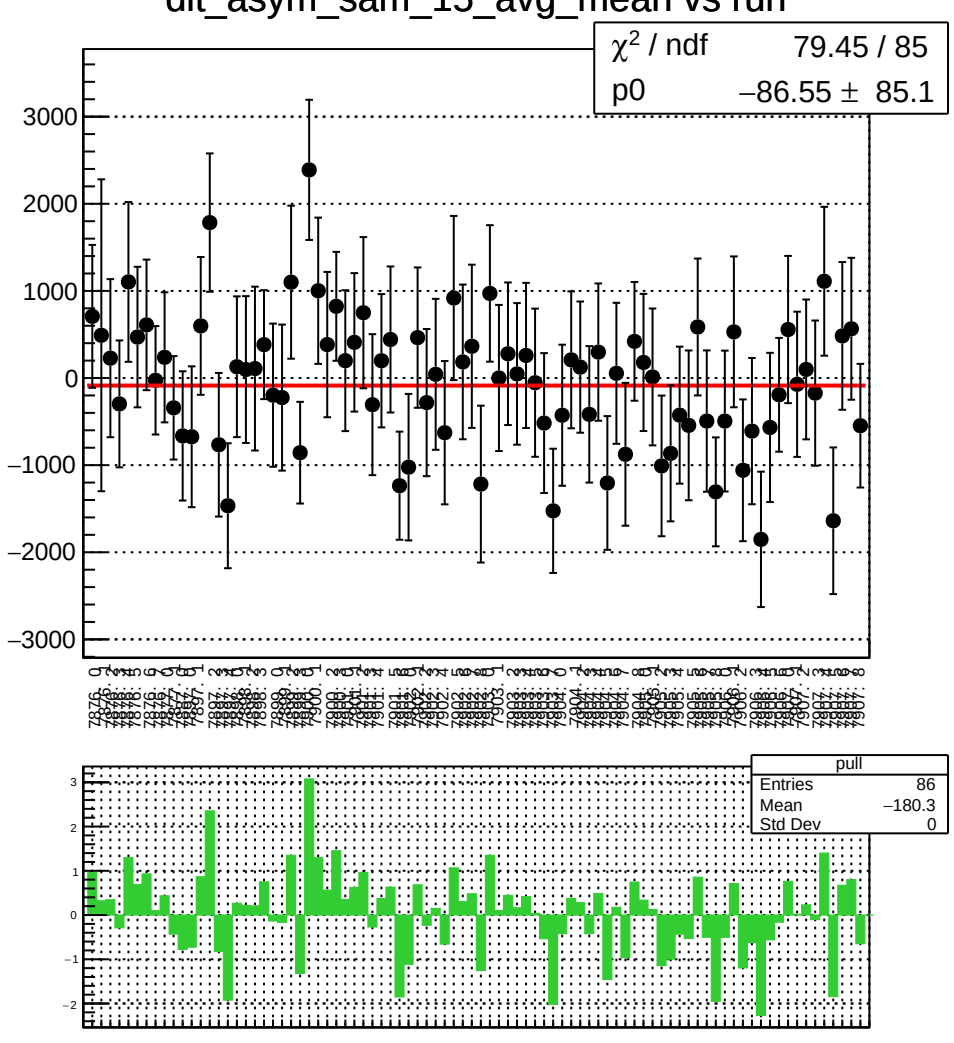

pull1D
Entries 86
Mean 0.02698
Std Dev 0.9747
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

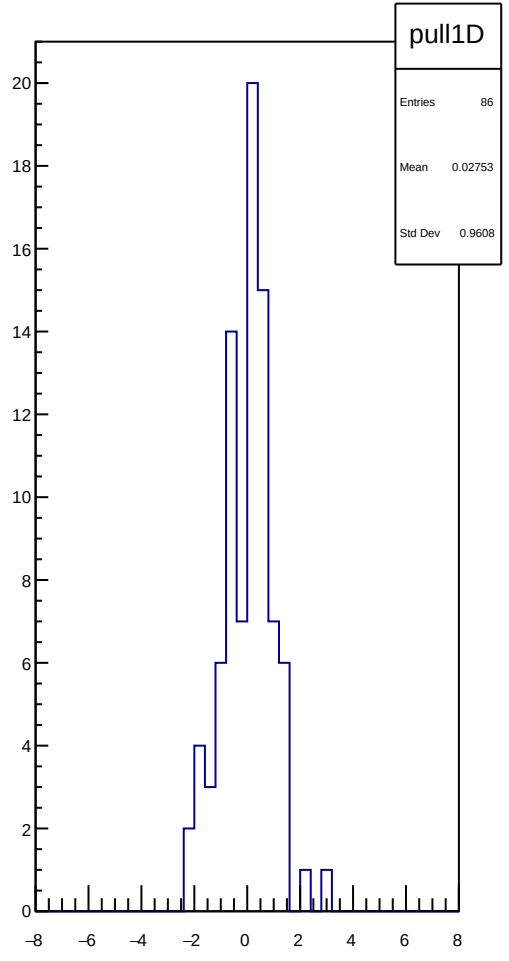

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 7312 / 85
p0 69.26 ± 0.05343
150
140
130
120
110
100
90
80
70
60

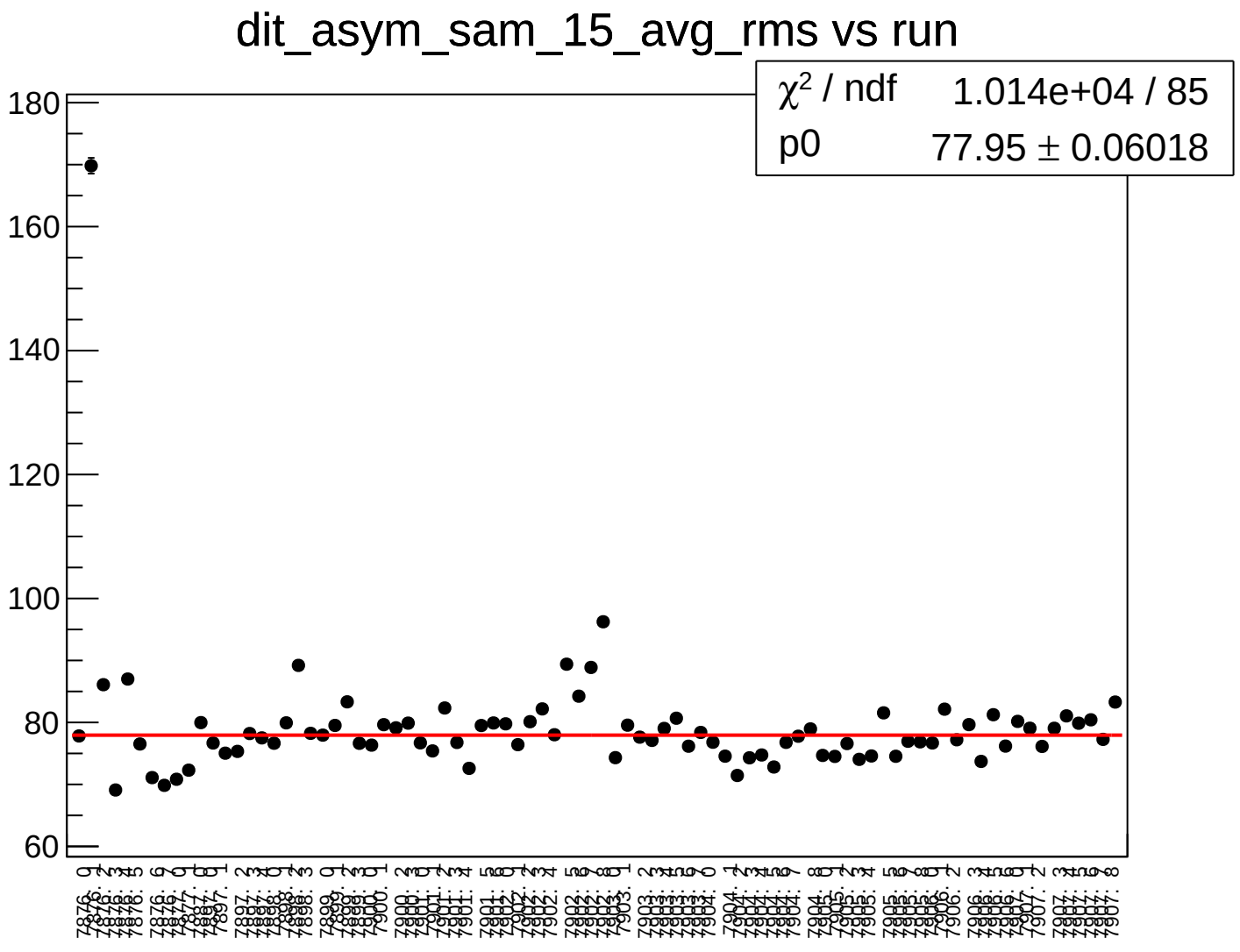

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.5 / 85
p0 −113.7 ± 263.2
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −223.7
Std Dev 0
3
2
1
0
−1
−2

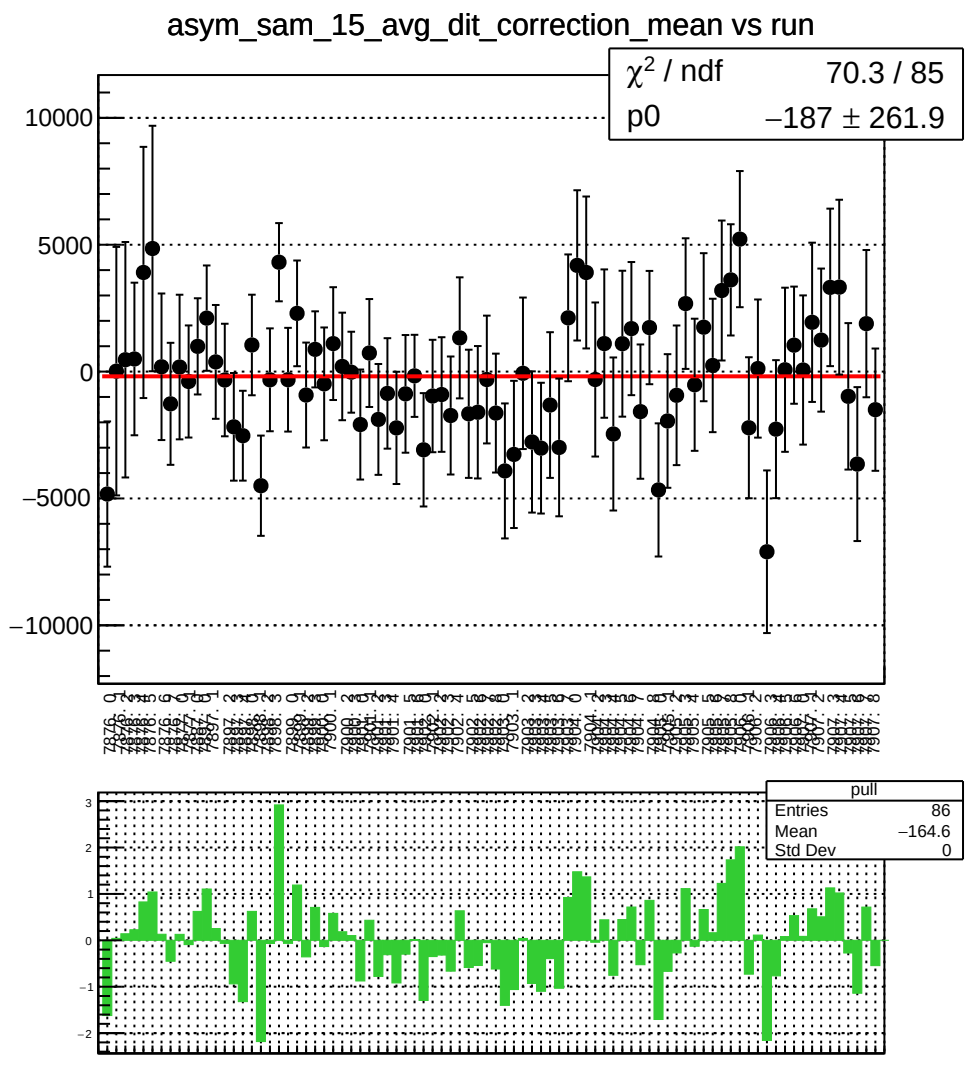

pull1D
Entries 86
Mean −0.006176
Std Dev 0.9054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

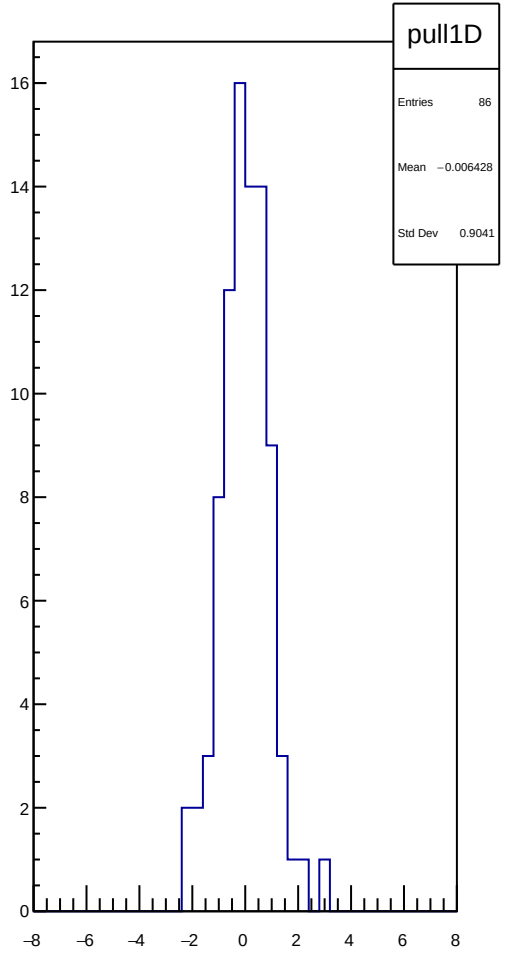

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.567e+04 / 85
p0 237.7 ± 0.1861
550
500
450
400
350
300
250
200
150

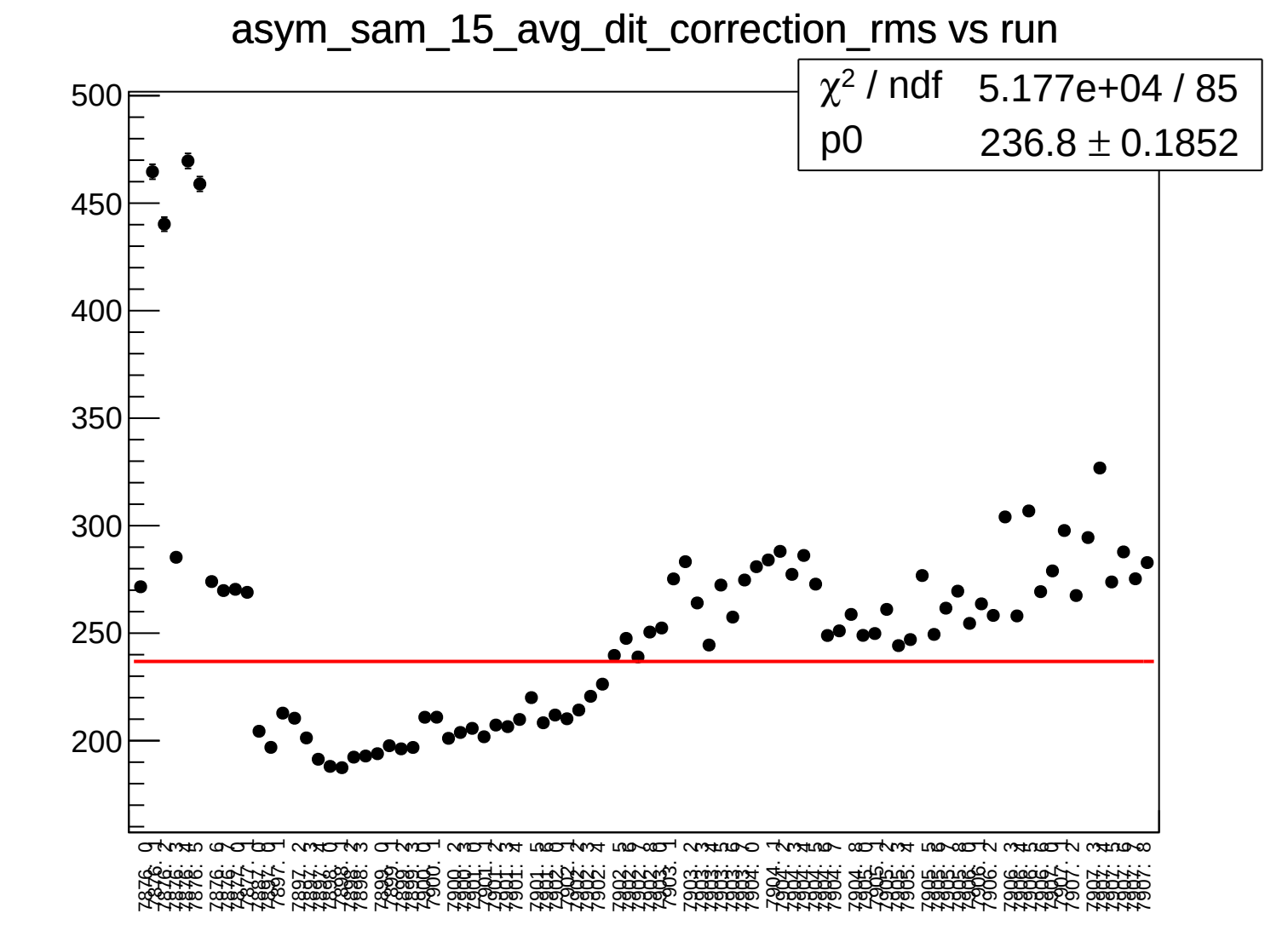

dit_asym_sam_15_avg_mean vs run
χ² / ndf 79.45 / 85
p0 −86.55 ± 85.1
pull
Entries 86
Mean −180.3
Std Dev 0

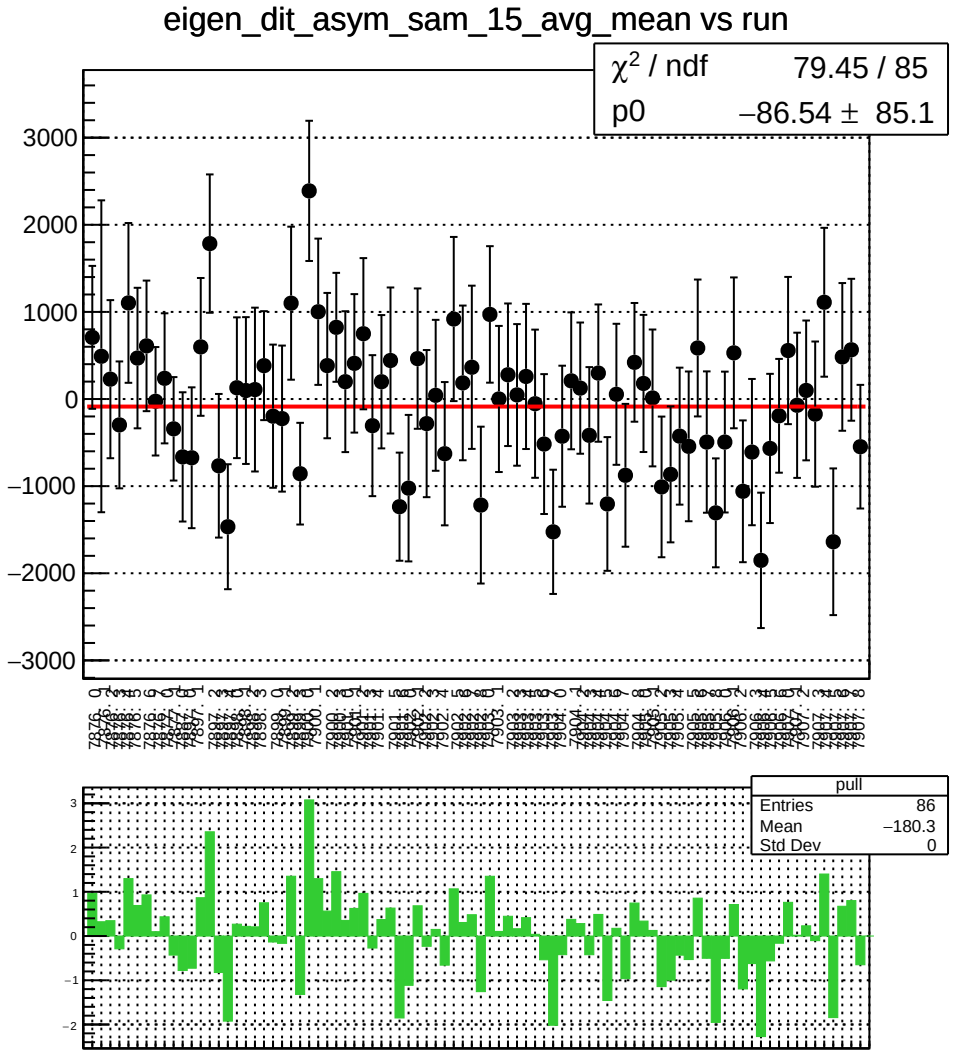

pull1D
Entries 86
Mean 0.02753
Std Dev 0.9608

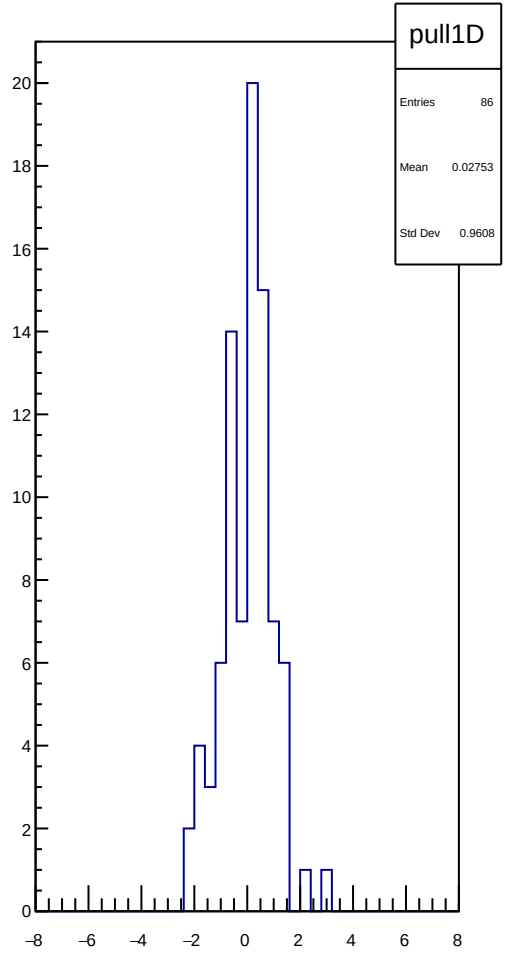

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.014e+04 / 85
p0 77.95 ± 0.06018
180
160
140
120
100
80
60

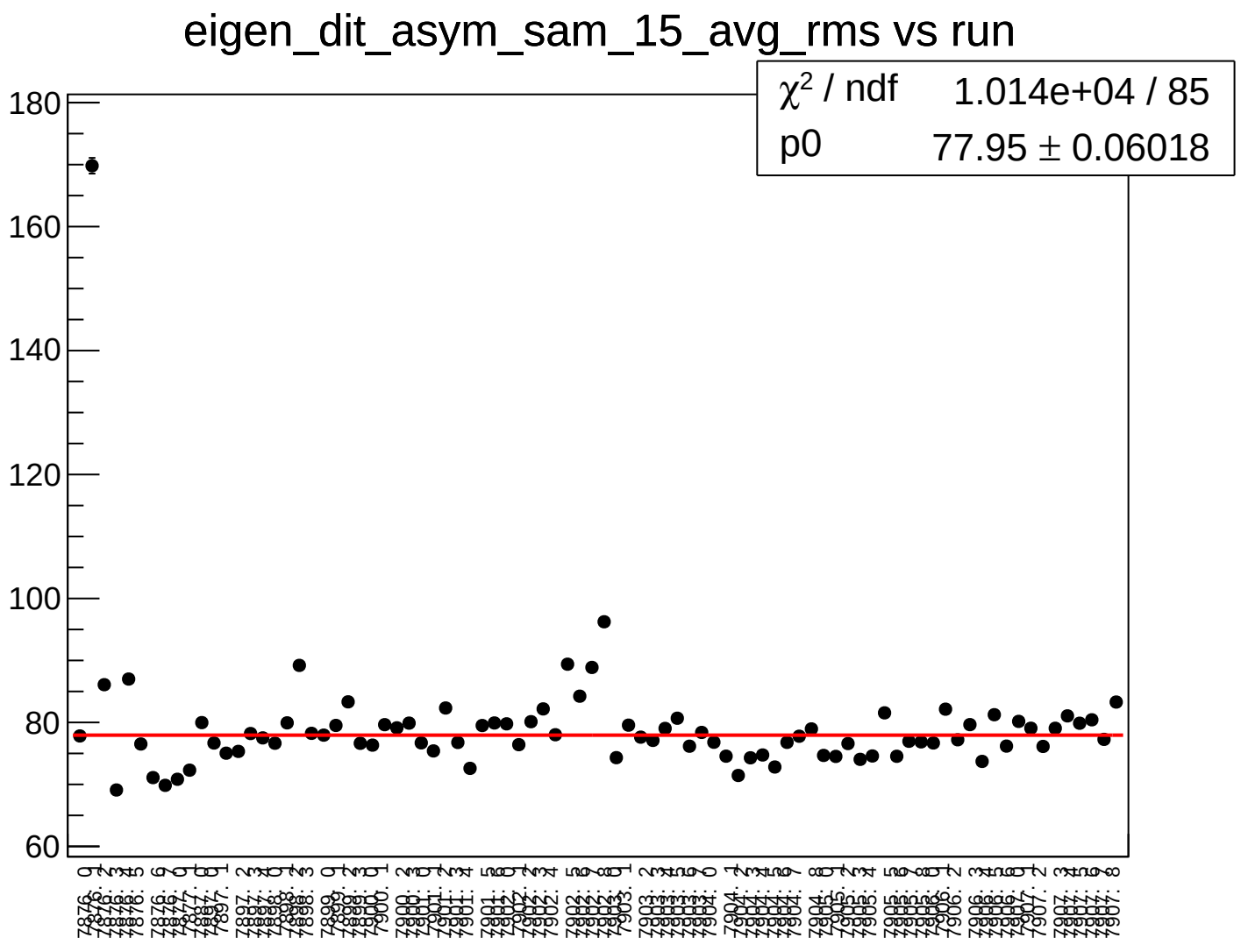

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 70.3 / 85
p0 −187 ± 261.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −164.6
Std Dev 0
3
2
1
0
−1
−2

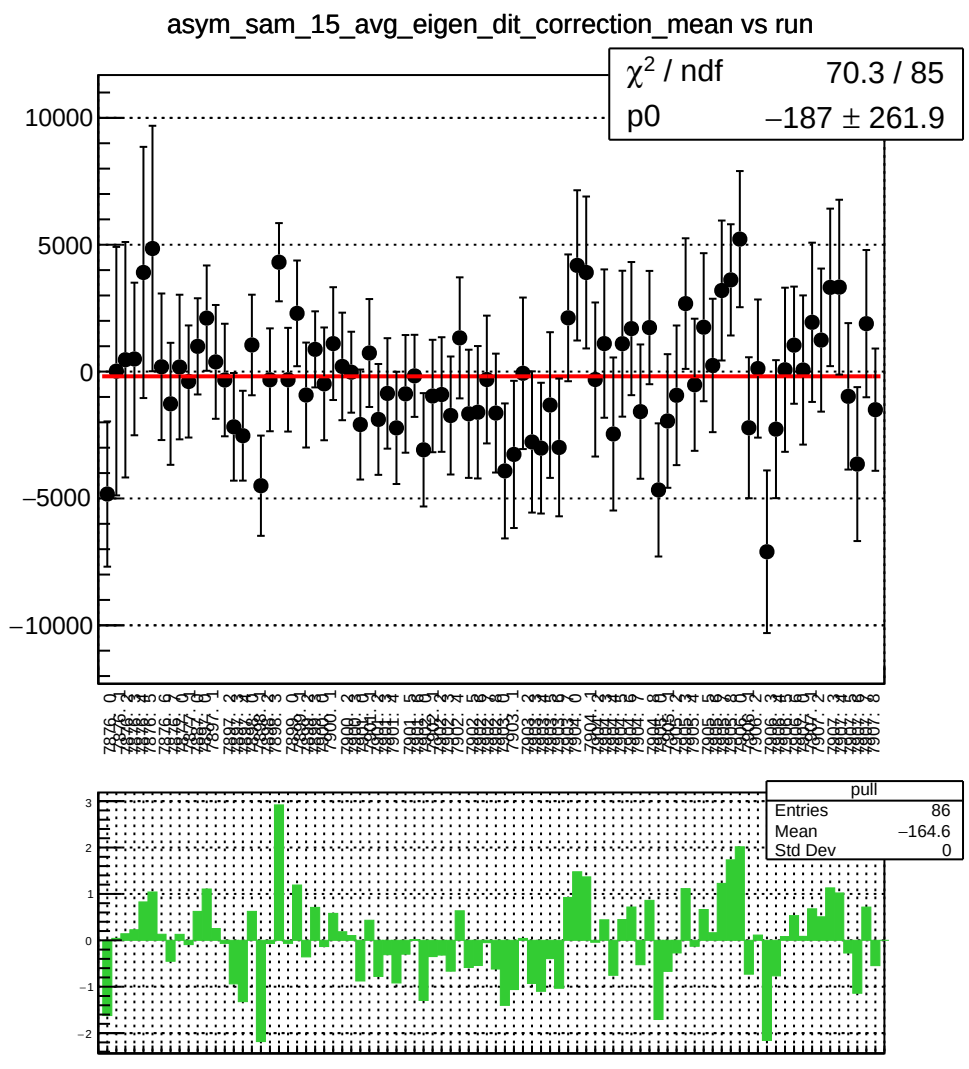

pull1D
Entries 86
Mean −0.006428
Std Dev 0.9041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

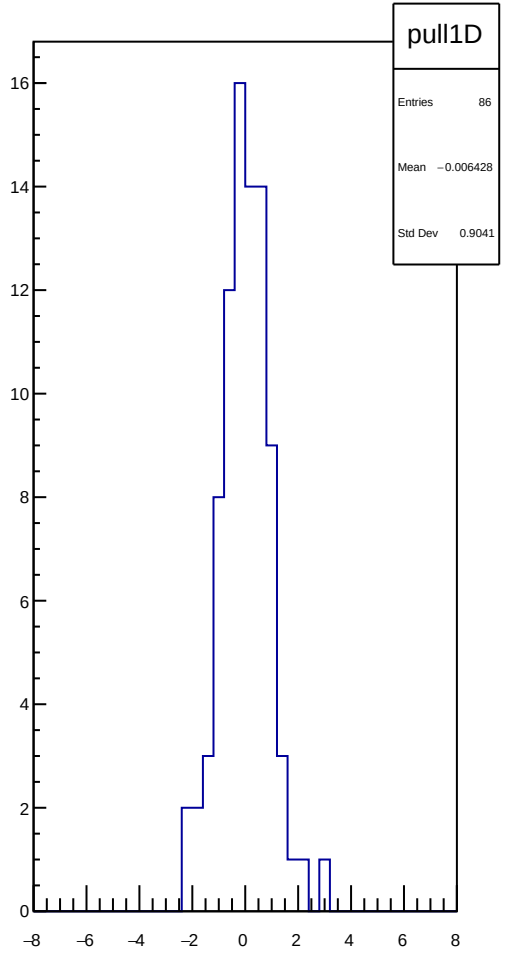

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 5.177e+04 / 85
p0 236.8 ± 0.1852
500
450
400
350
300
250
200

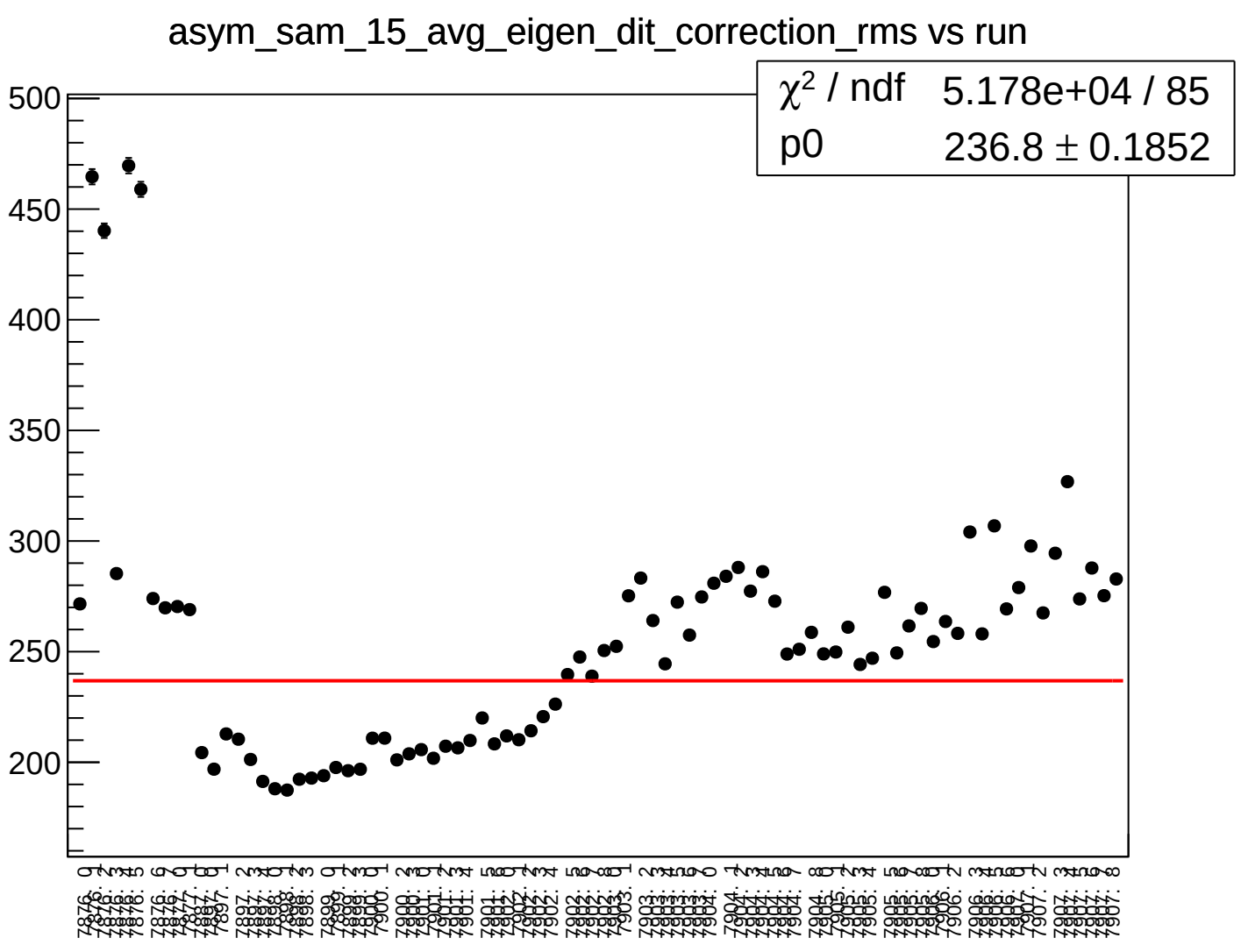

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 79.45 / 85
p0 −86.54 ± 85.1
pull
Entries 86
Mean −180.3
Std Dev 0

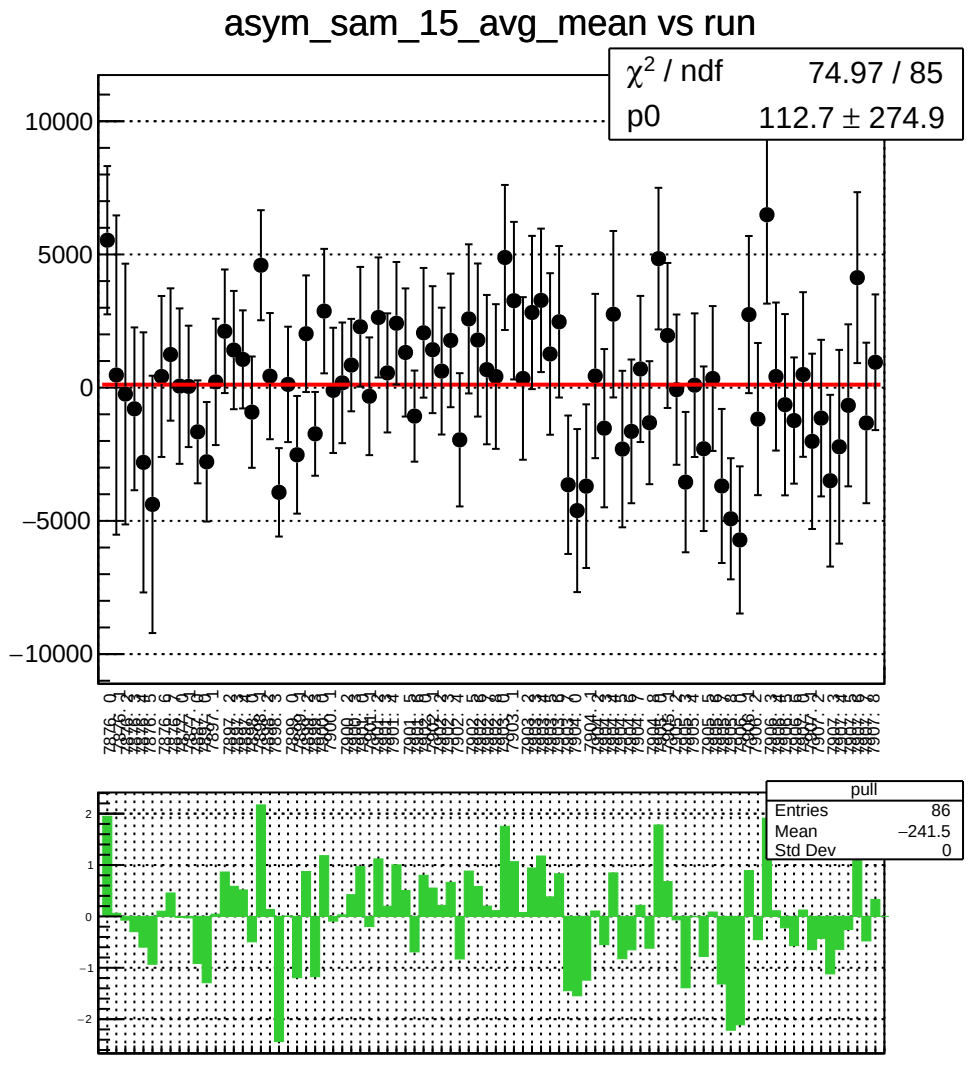

pull1D
Entries 86
Mean 0.02753
Std Dev 0.9608

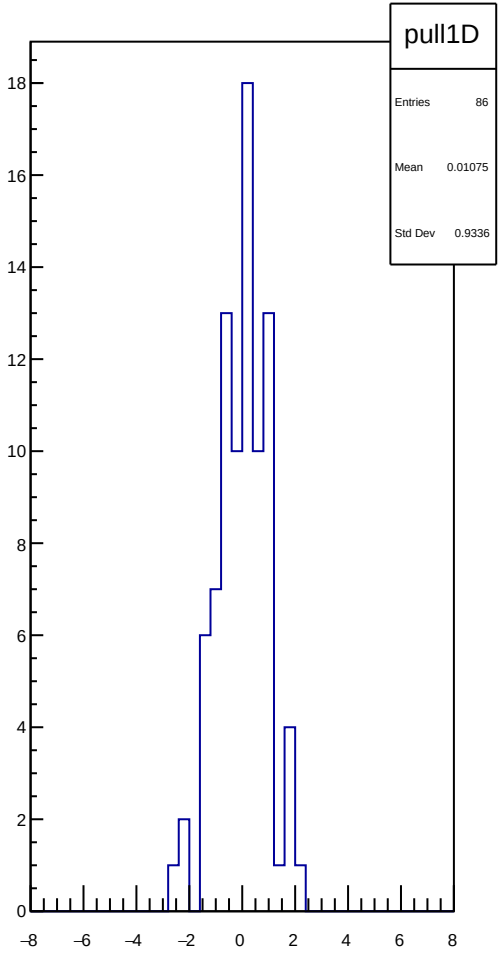

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.014e+04 / 85
p0 77.95 ± 0.06018
180
160
140
120
100
80
60

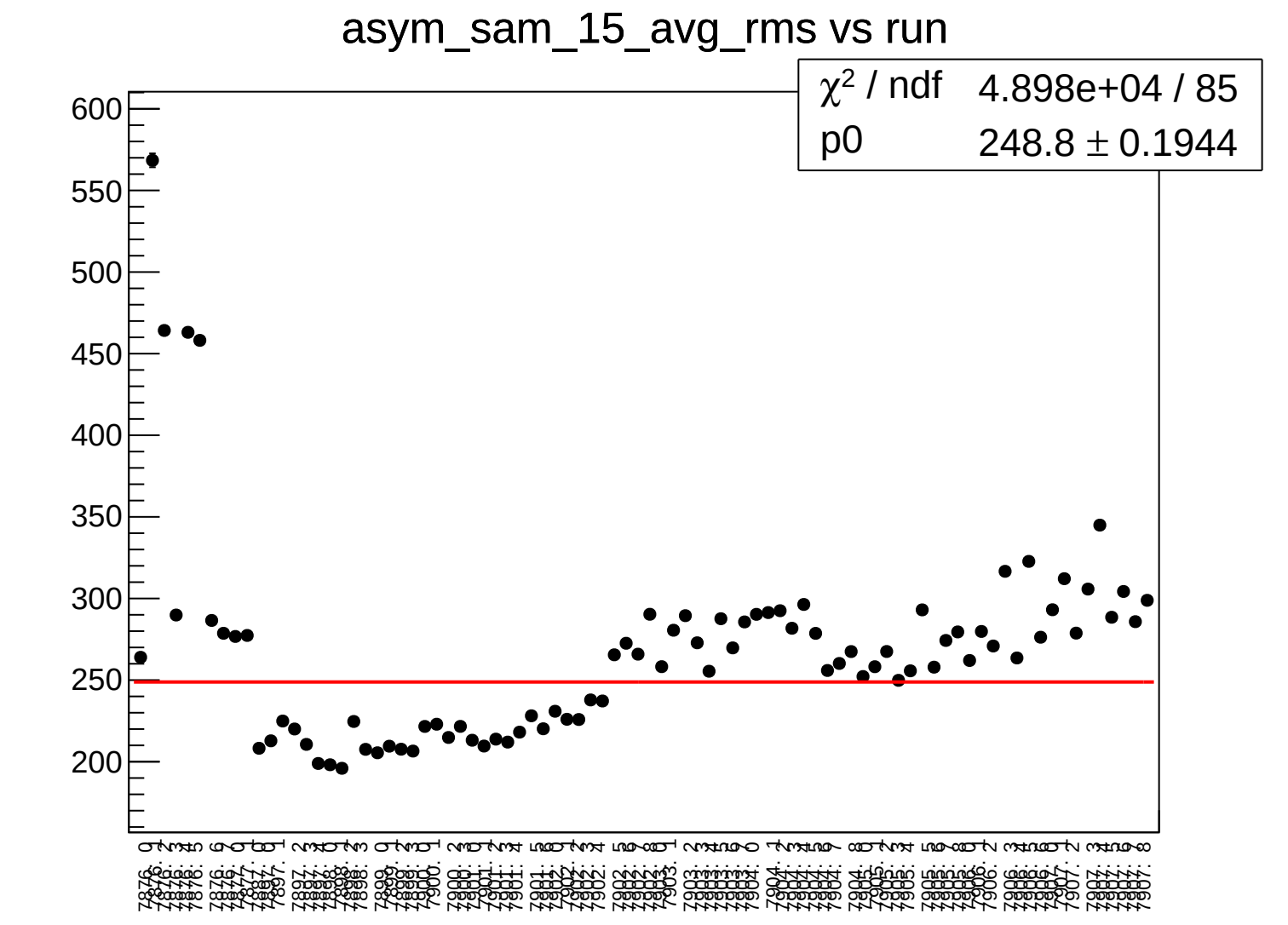

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.3 / 85
p0 −187 ± 261.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −164.6
Std Dev 0
3
2
1
0
−1
−2

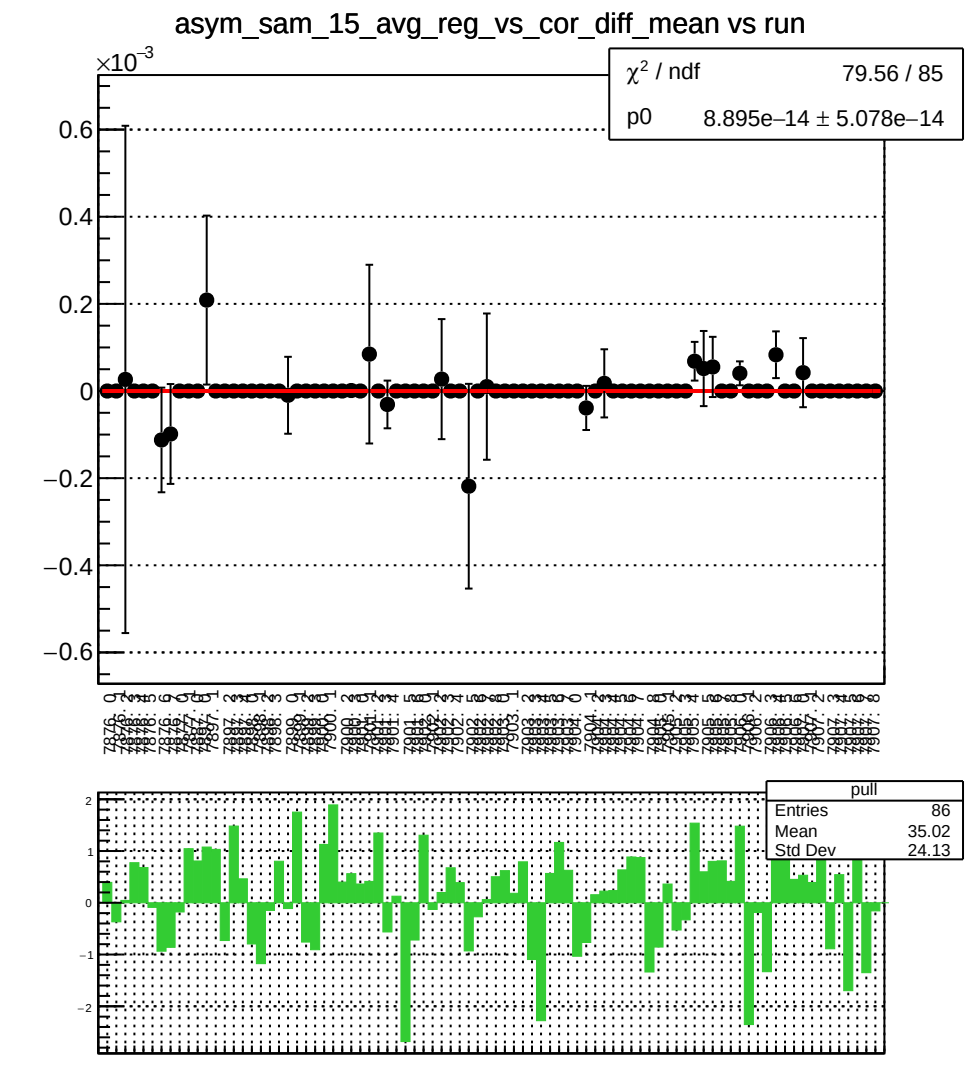

pull1D
Entries 86
Mean −0.006428
Std Dev 0.9041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

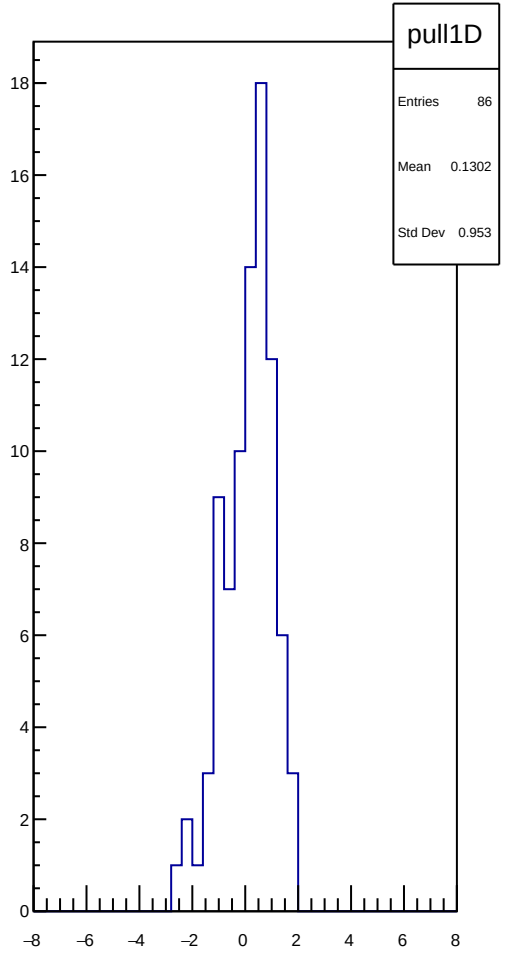

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 5.178e+04 / 85
p0 236.8 ± 0.1852
500
450
400
350
300
250
200

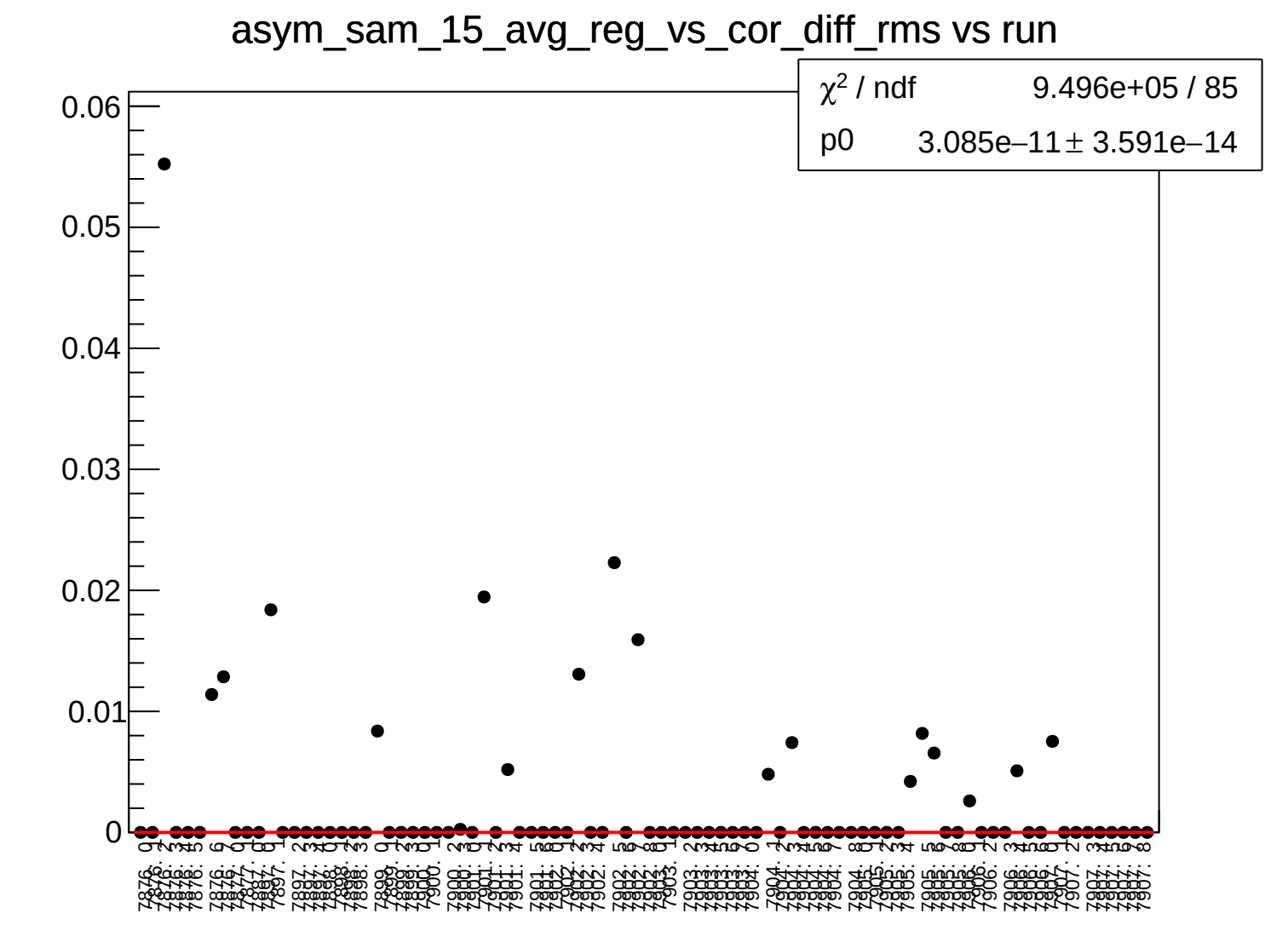

asym_sam_15_avg_mean vs run
χ² / ndf 74.97 / 85
p0 112.7 ± 274.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −241.5
Std Dev 0
2
1
0
−1
−2

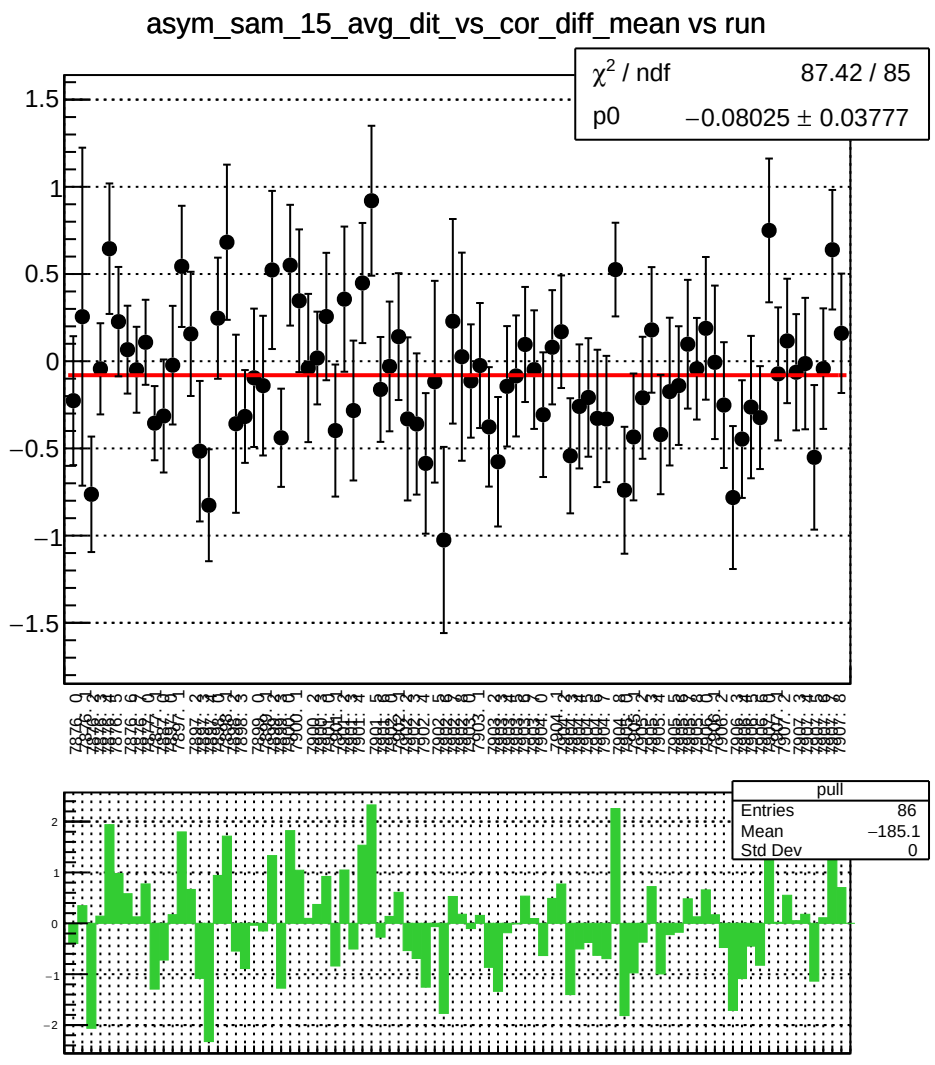

pull1D
Entries 86
Mean 0.01075
Std Dev 0.9336
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

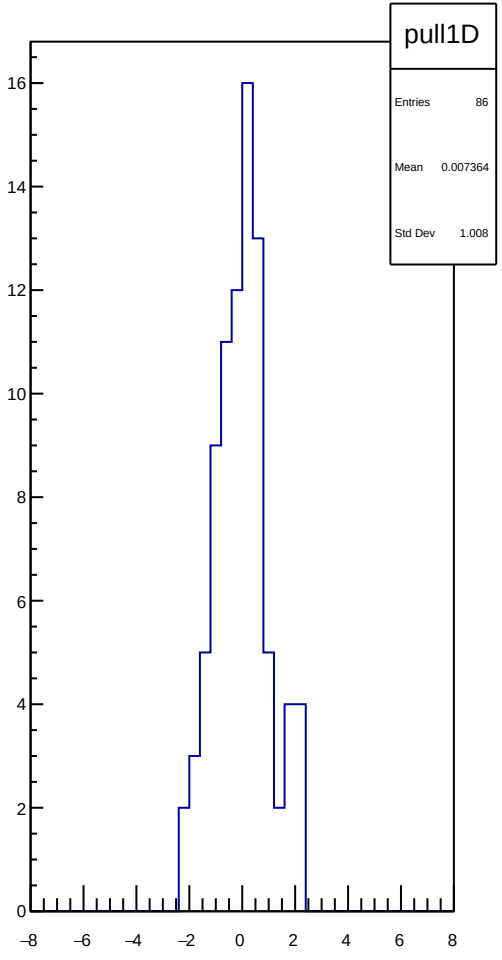

asym_sam_15_avg_rms vs run
χ^2 / ndf 4.898e+04 / 85
p0 248.8 ± 0.1944
600
550
500
450
400
350
300
250
200

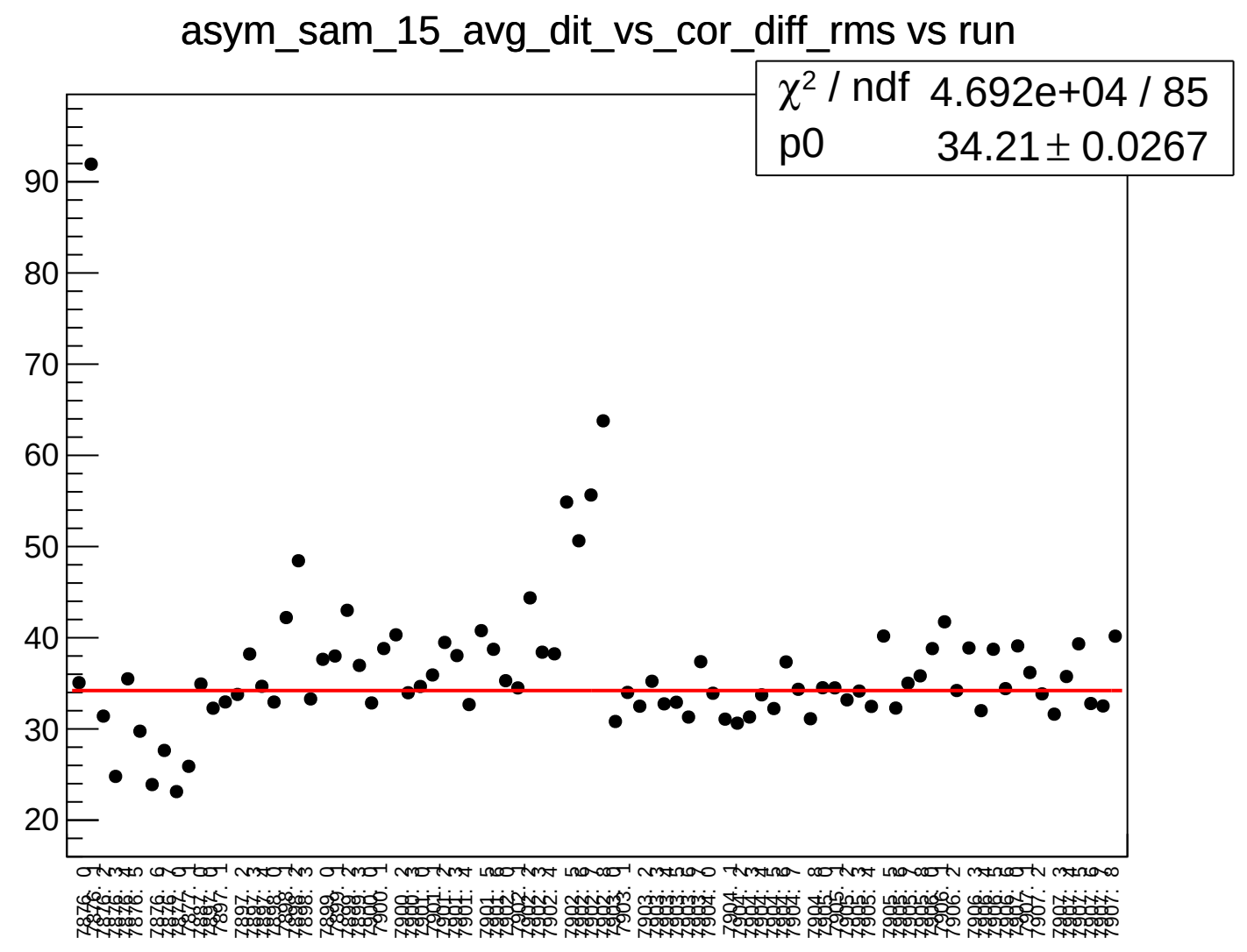

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 79.56 / 85
p0 8.895e−14 ± 5.078e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 86
Mean 35.02
Std Dev 24.13
2
1
0
−1
−2

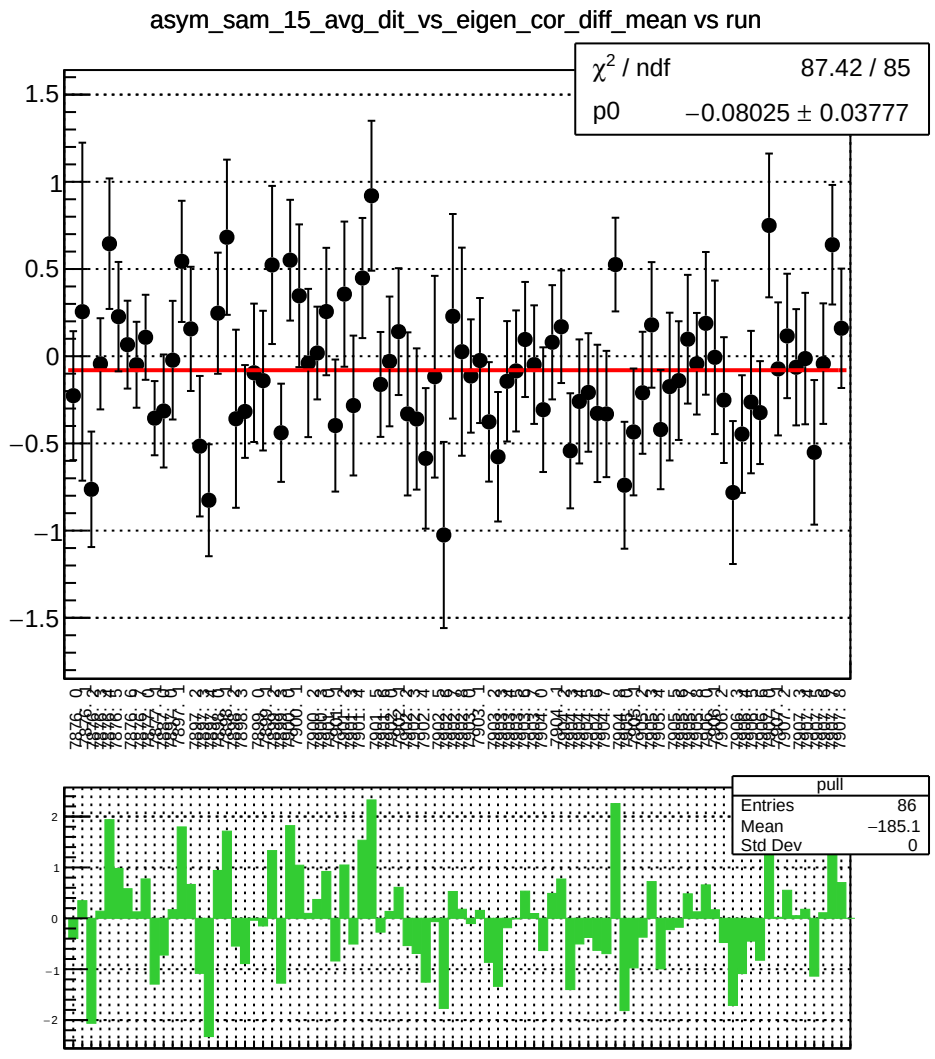

pull1D
Entries 86
Mean 0.1302
Std Dev 0.953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

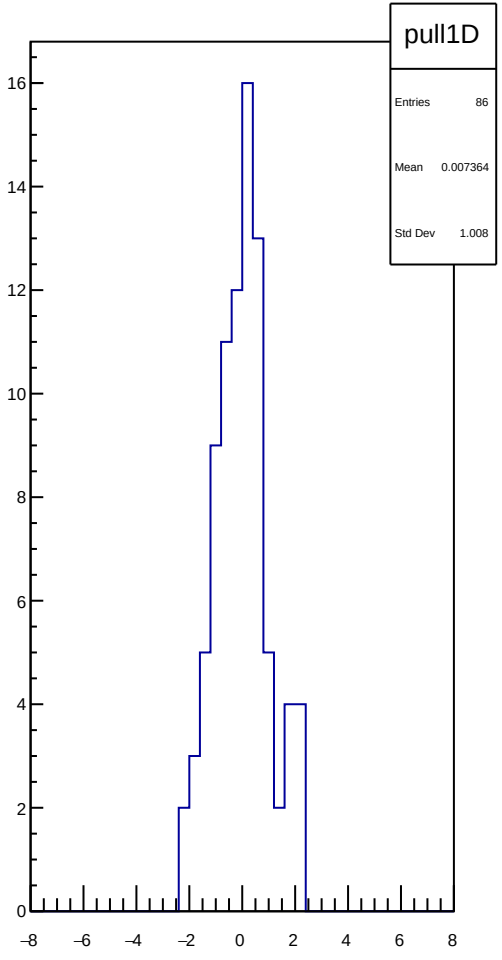

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.496e+05 / 85
p0 3.085e−11 ± 3.591e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

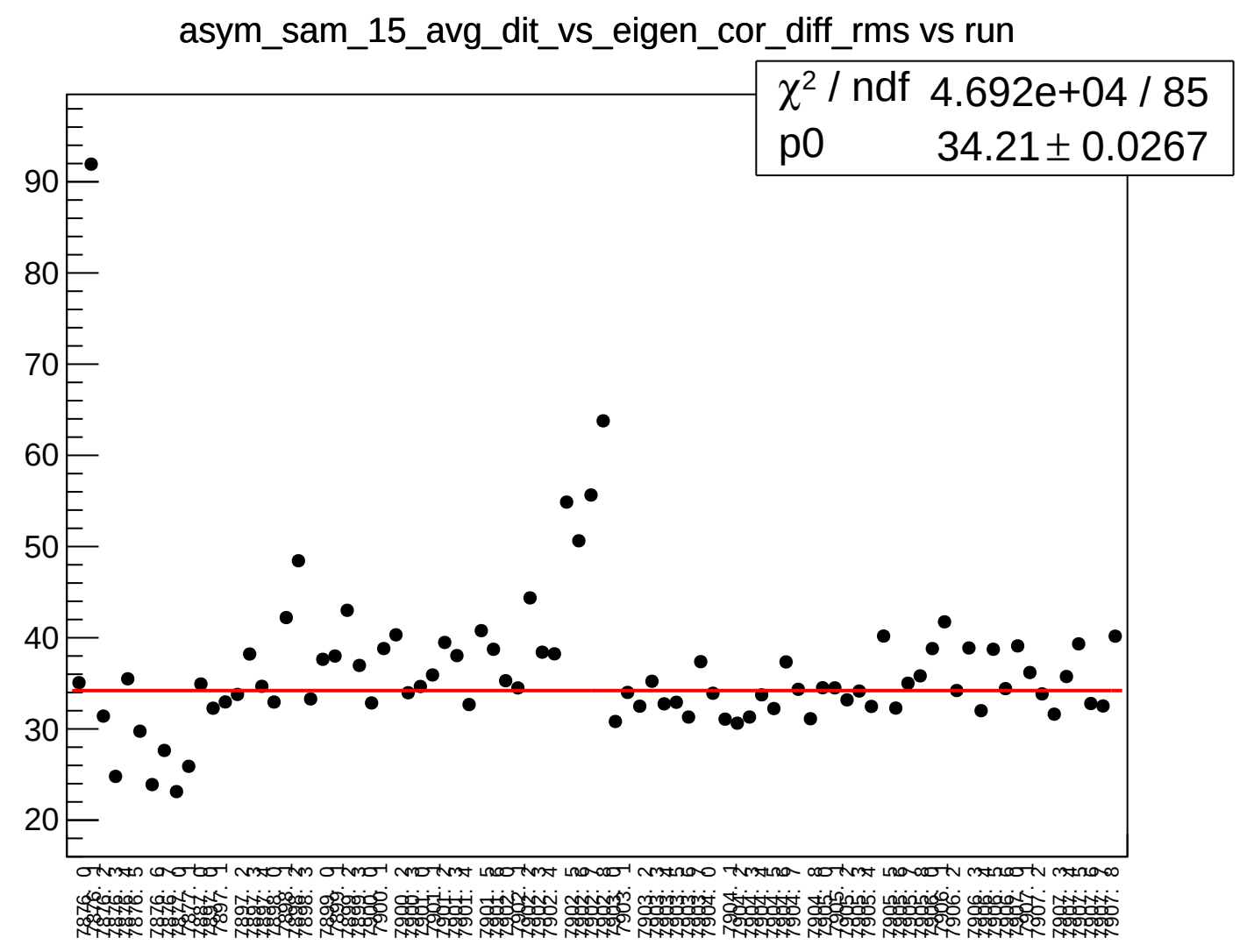

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.42 / 85
p0 −0.08025 ± 0.03777
pull
Entries 86
Mean −185.1
Std Dev 0

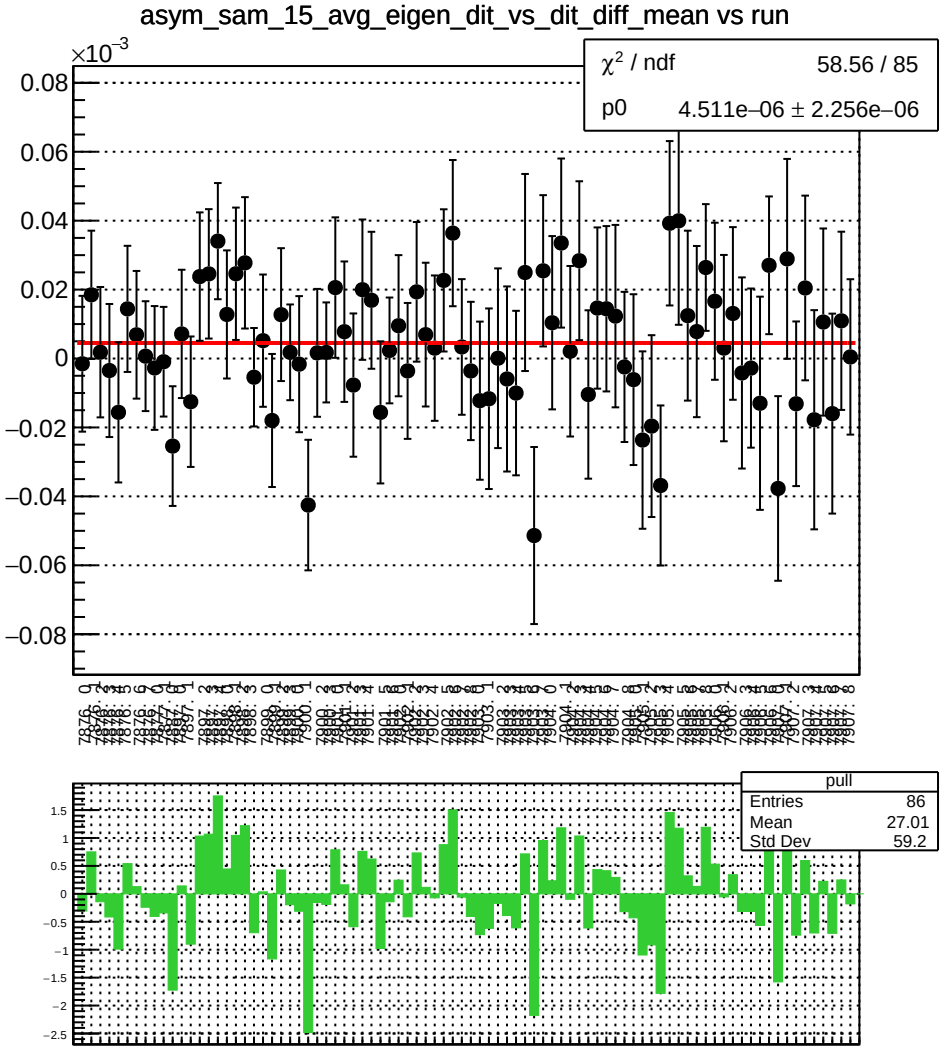

pull1D
Entries 86
Mean 0.007364
Std Dev 1.008

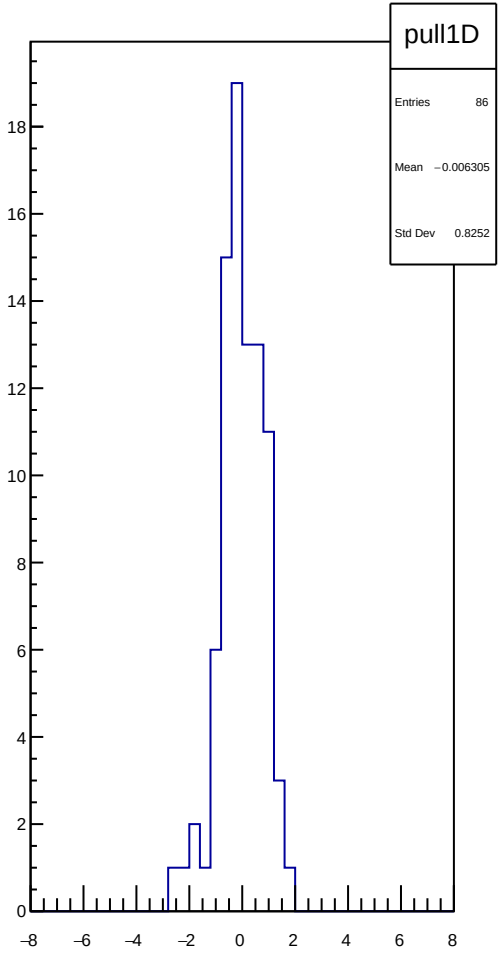

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.692e+04 / 85
p0 34.21 ± 0.0267
90
80
70
60
50
40
30
20

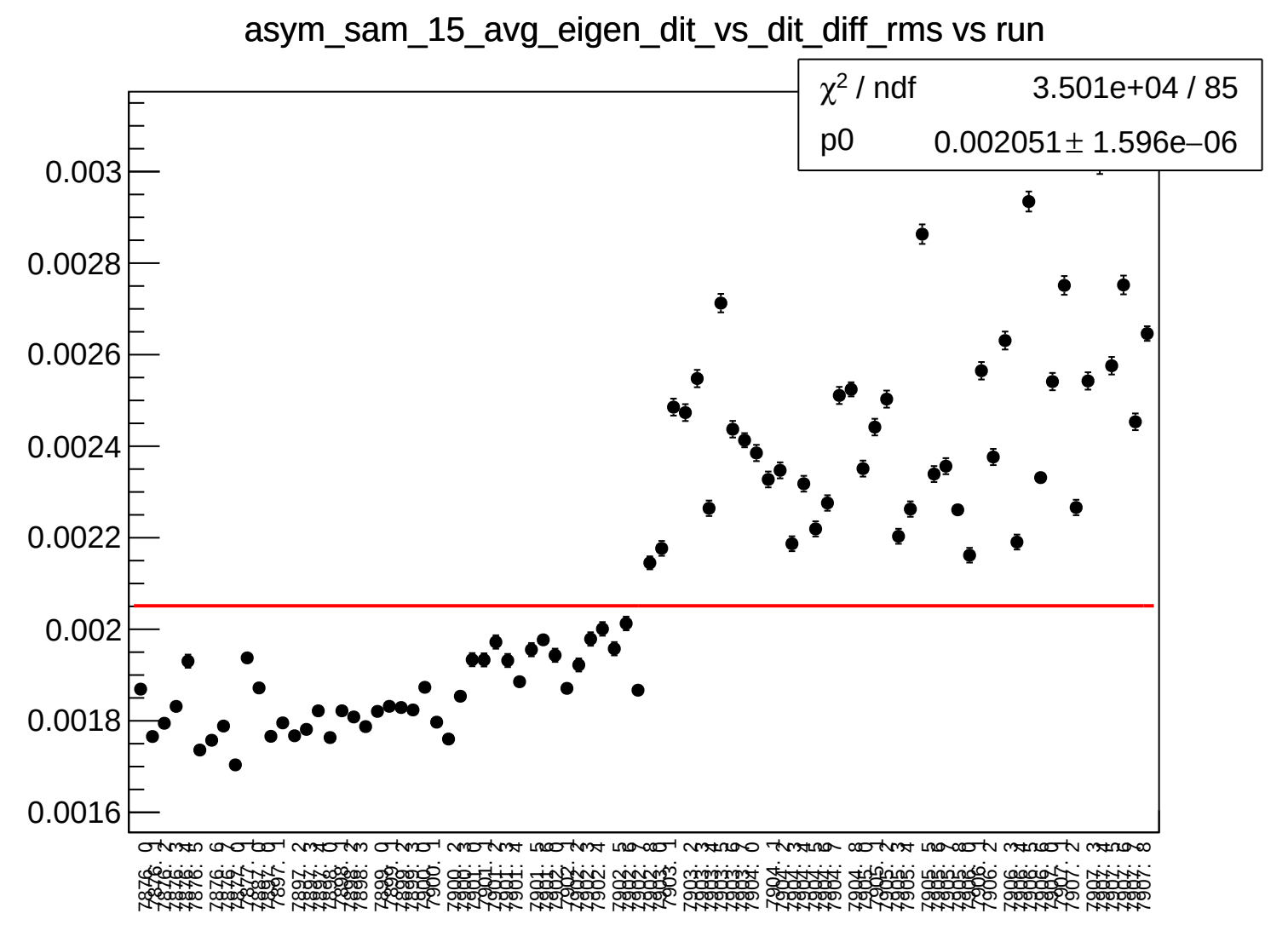

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.42 / 85
p0 −0.08025 ± 0.03777
pull
Entries 86
Mean −185.1
Std Dev 0

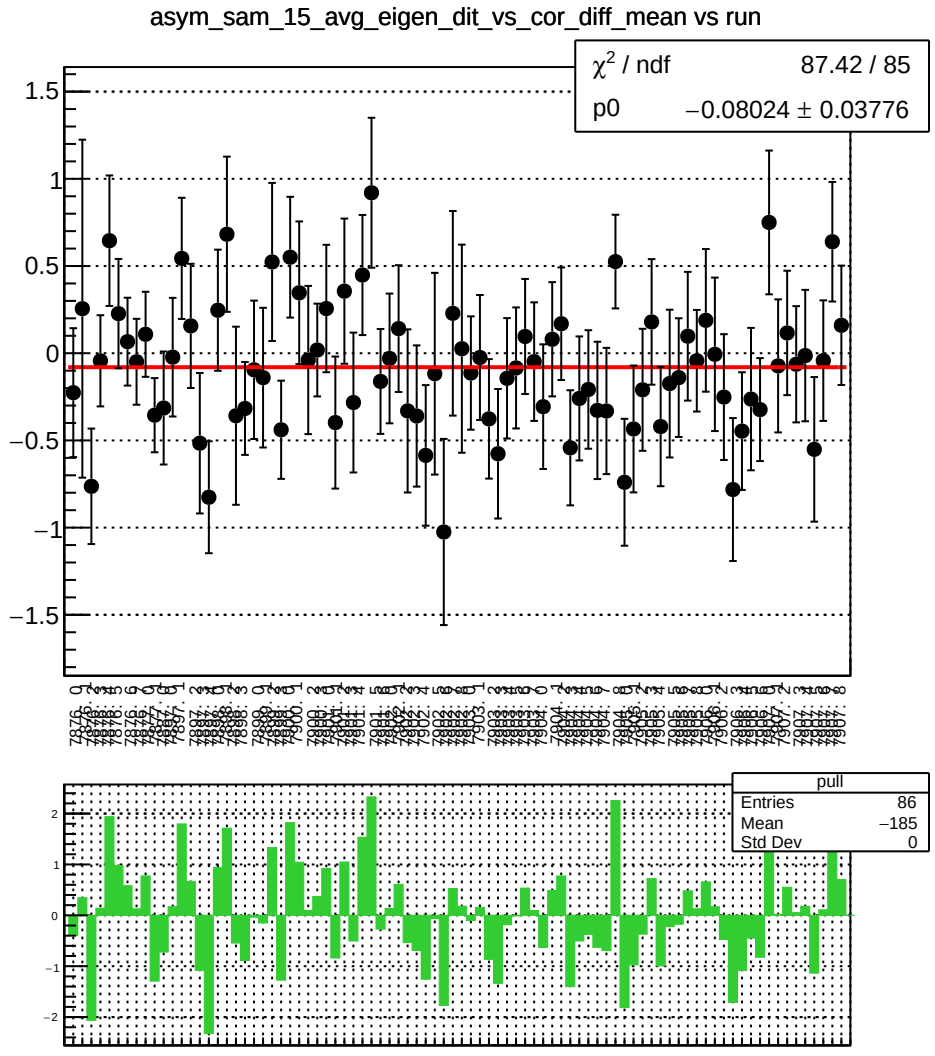

pull1D
Entries 86
Mean 0.007364
Std Dev 1.008

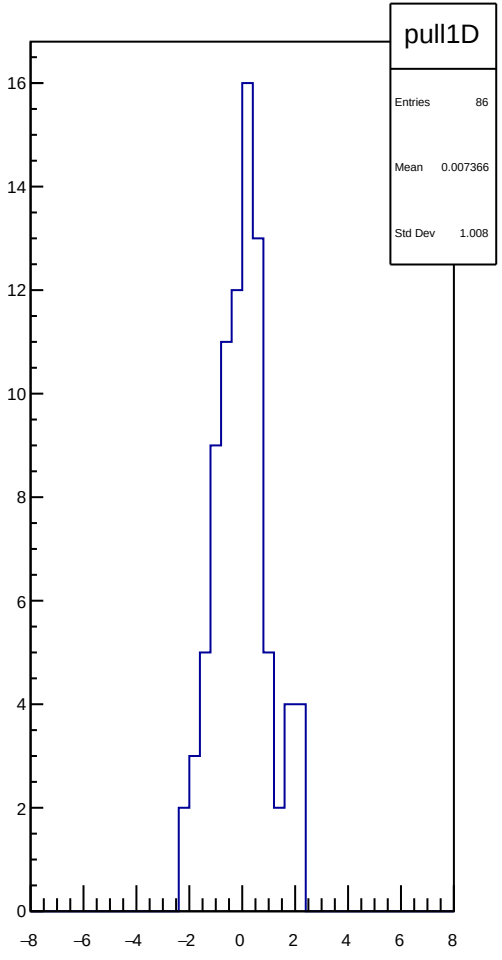

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.692e+04 / 85
p0 34.21 ± 0.0267
90
80
70
60
50
40
30
20

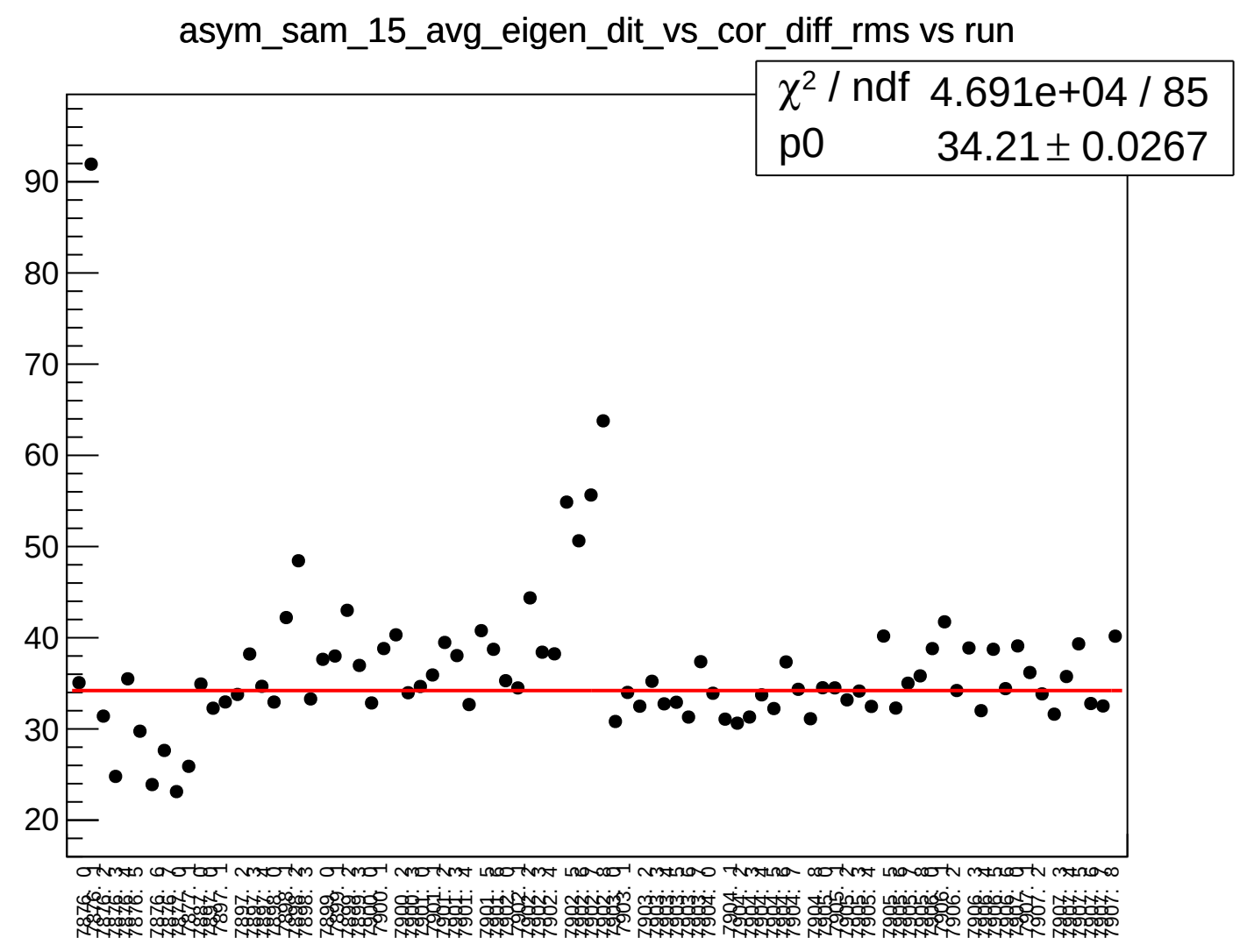

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 58.56 / 85
p0 4.511e−06 ± 2.256e−06
pull
Entries 86
Mean 27.01
Std Dev 59.2

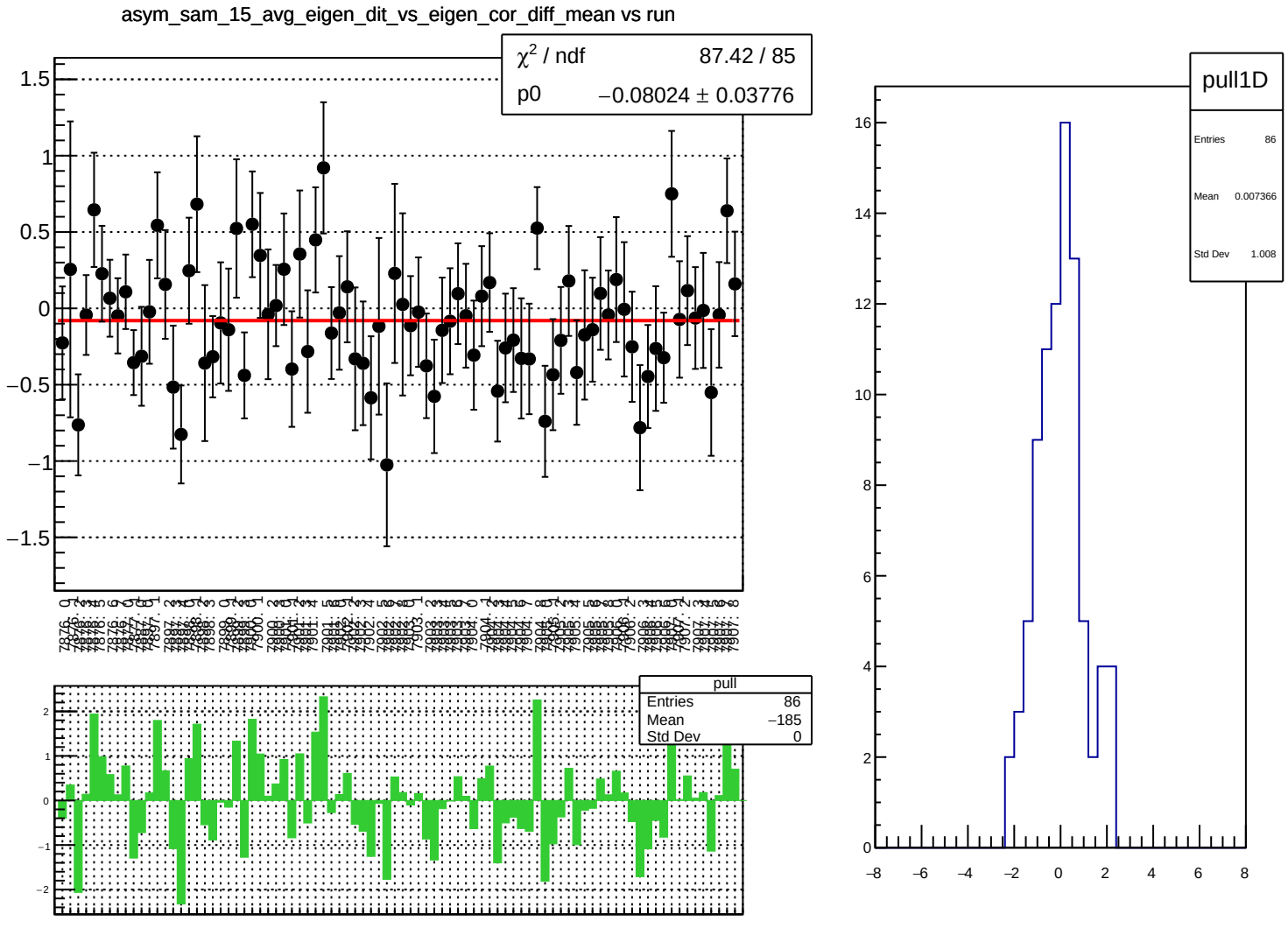

pull1D
Entries 86
Mean −0.006305
Std Dev 0.8252

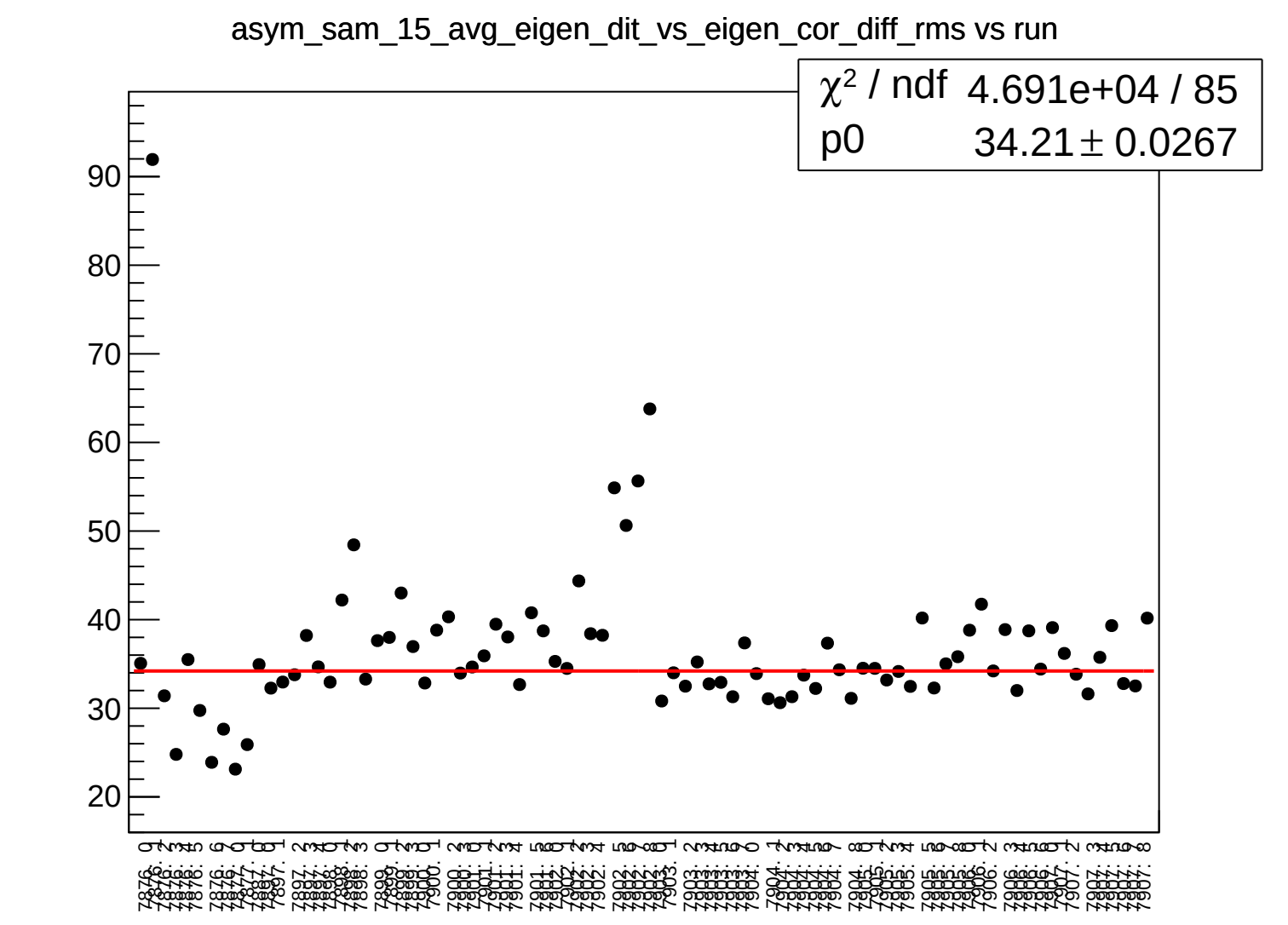

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.501e+04 / 85
p0 0.002051 ± 1.596e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

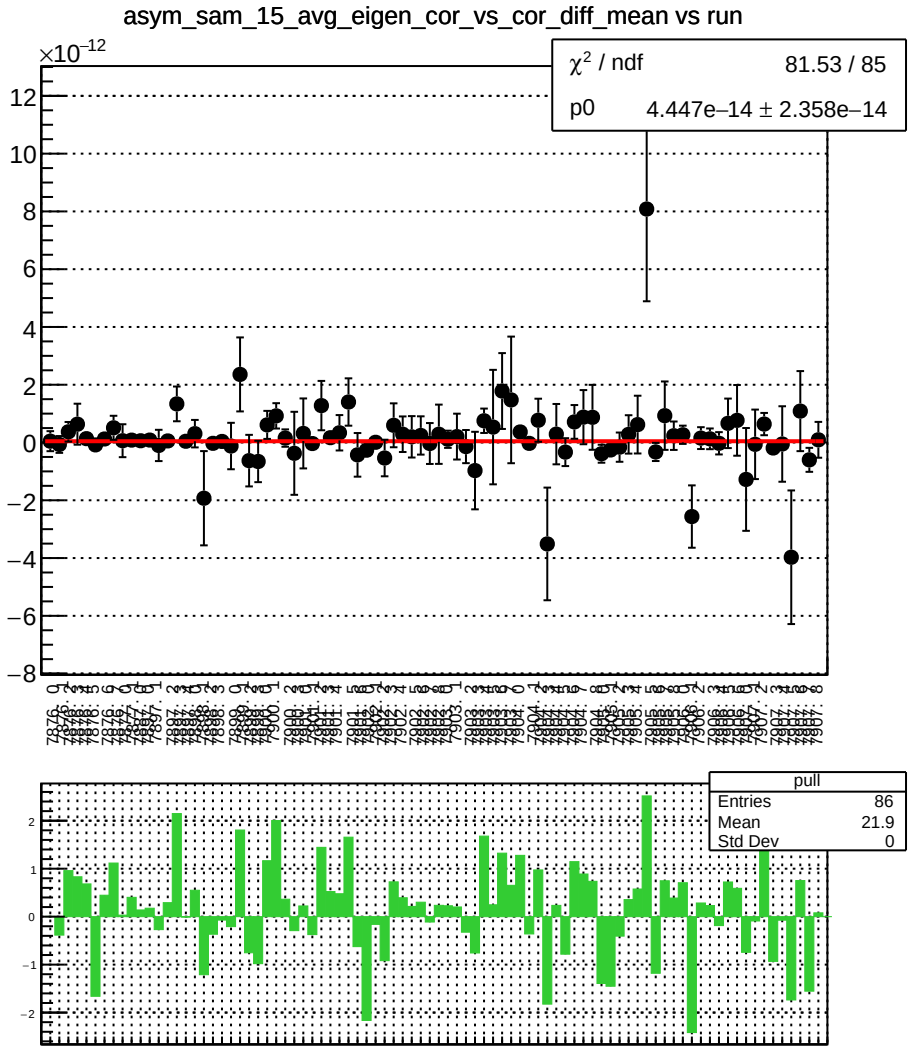

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.42 / 85
p0 −0.08024 ± 0.03776
pull
Entries 86
Mean −185
Std Dev 0

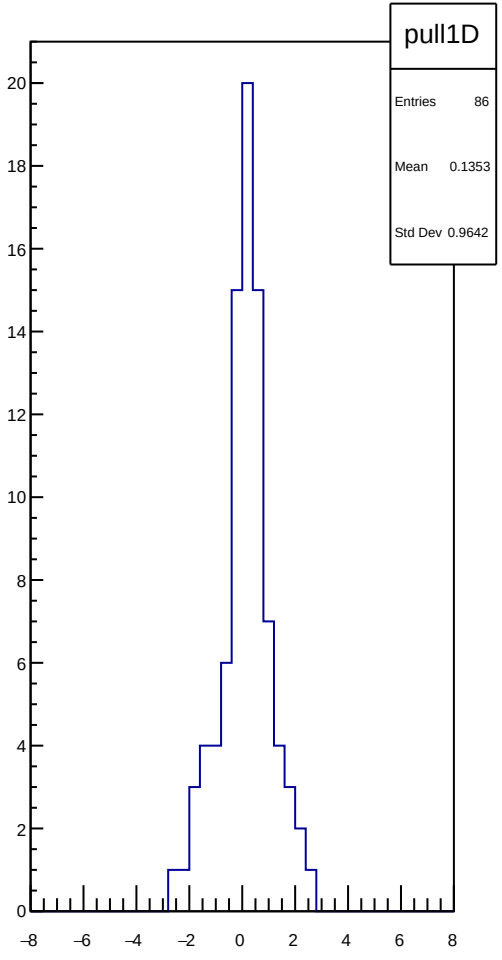

pull1D
Entries 86
Mean 0.007366
Std Dev 1.008

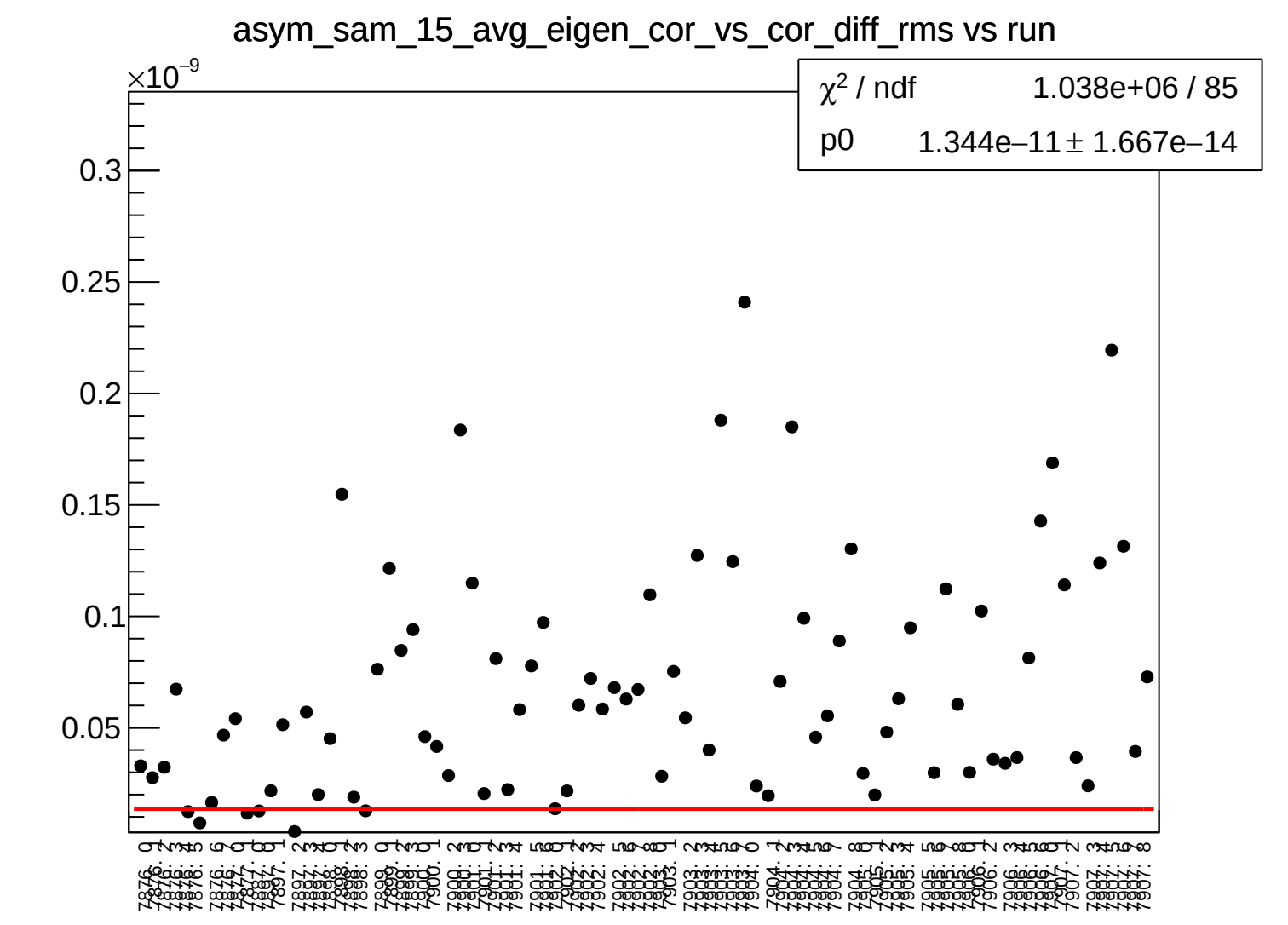

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.691e+04 / 85
p0 34.21 ± 0.0267
90
80
70
60
50
40
30
20

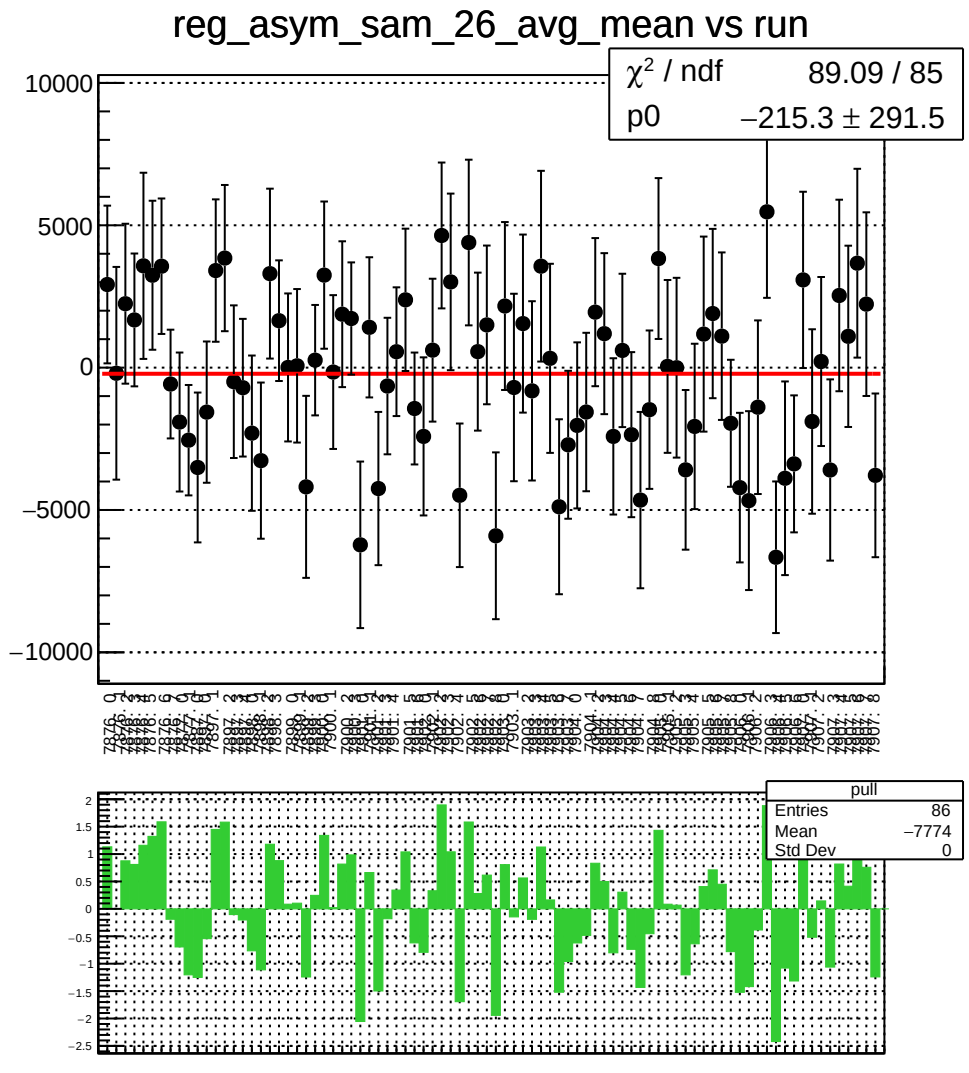

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.42 / 85
p0 −0.08024 ± 0.03776
pull
Entries 86
Mean −185
Std Dev 0
pull1D
Entries 86
Mean 0.007366
Std Dev 1.008

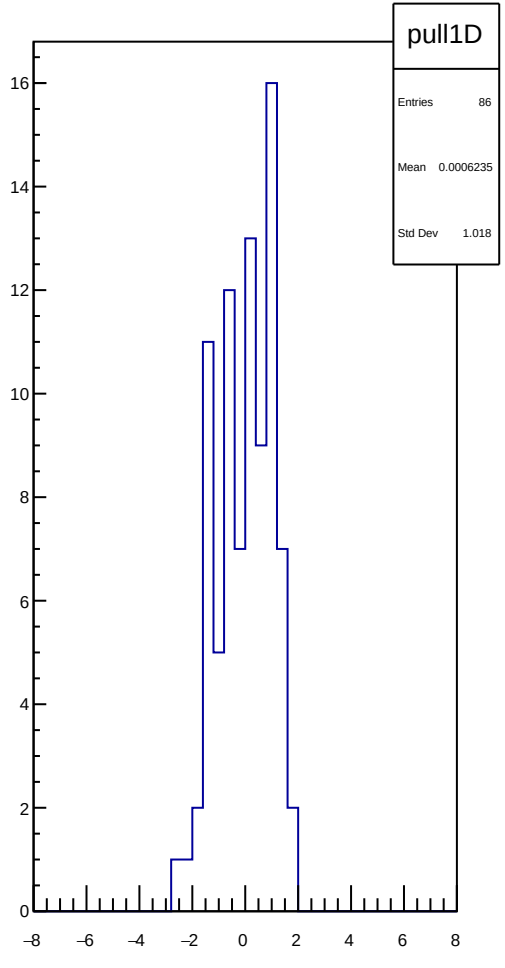

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.691e+04 / 85
p0 34.21 ± 0.0267
90
80
70
60
50
40
30
20

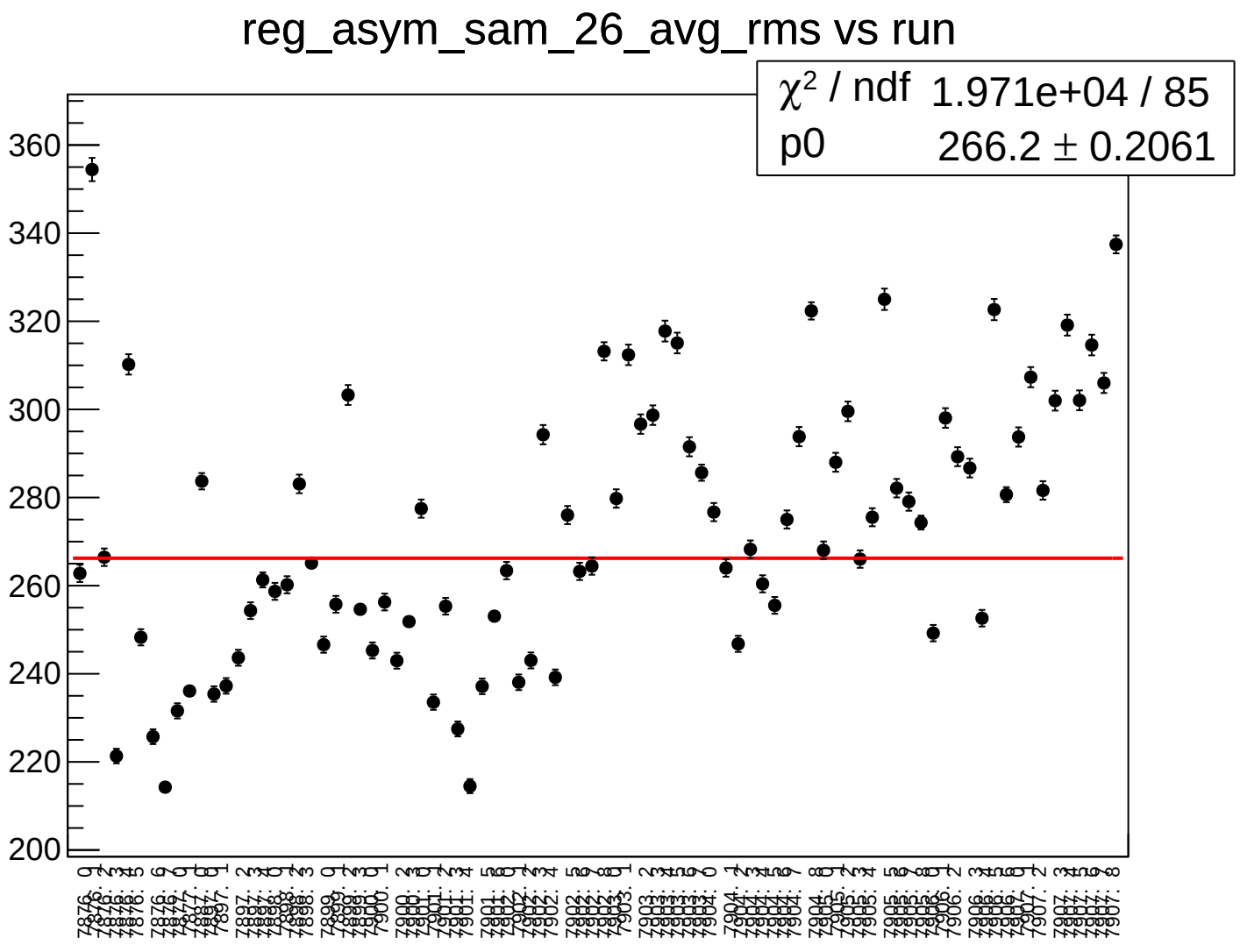

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.53 / 85
p0 4.447e−14 ± 2.358e−14
pull
Entries 86
Mean 21.9
Std Dev 0

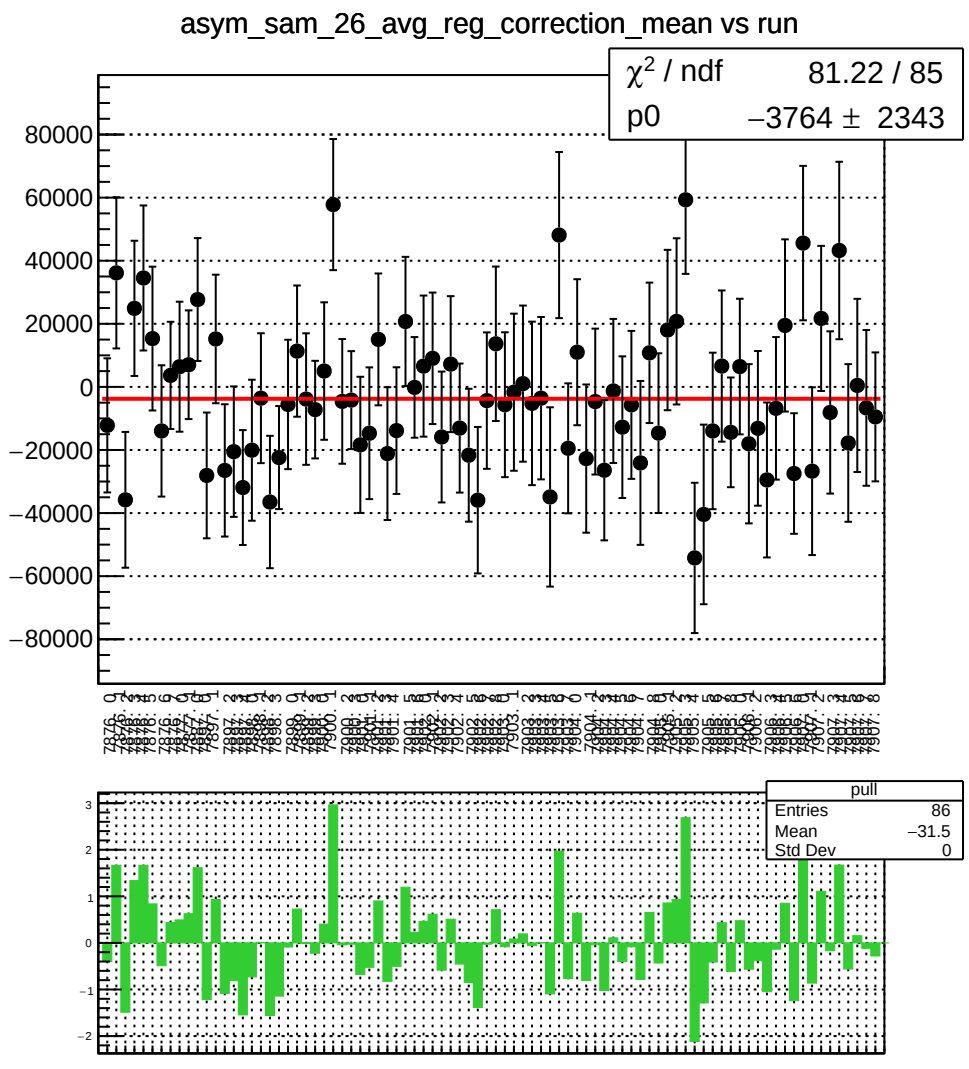

pull1D
Entries 86
Mean 0.1353
Std Dev 0.9642

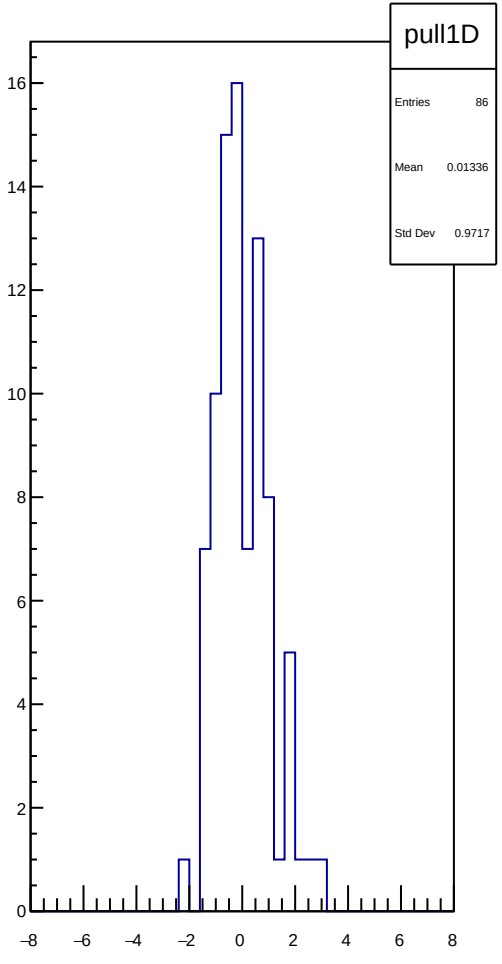

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.038e+06 / 85
p0 1.344e−11 ± 1.667e−14
0.3
0.25
0.2
0.15
0.1
0.05

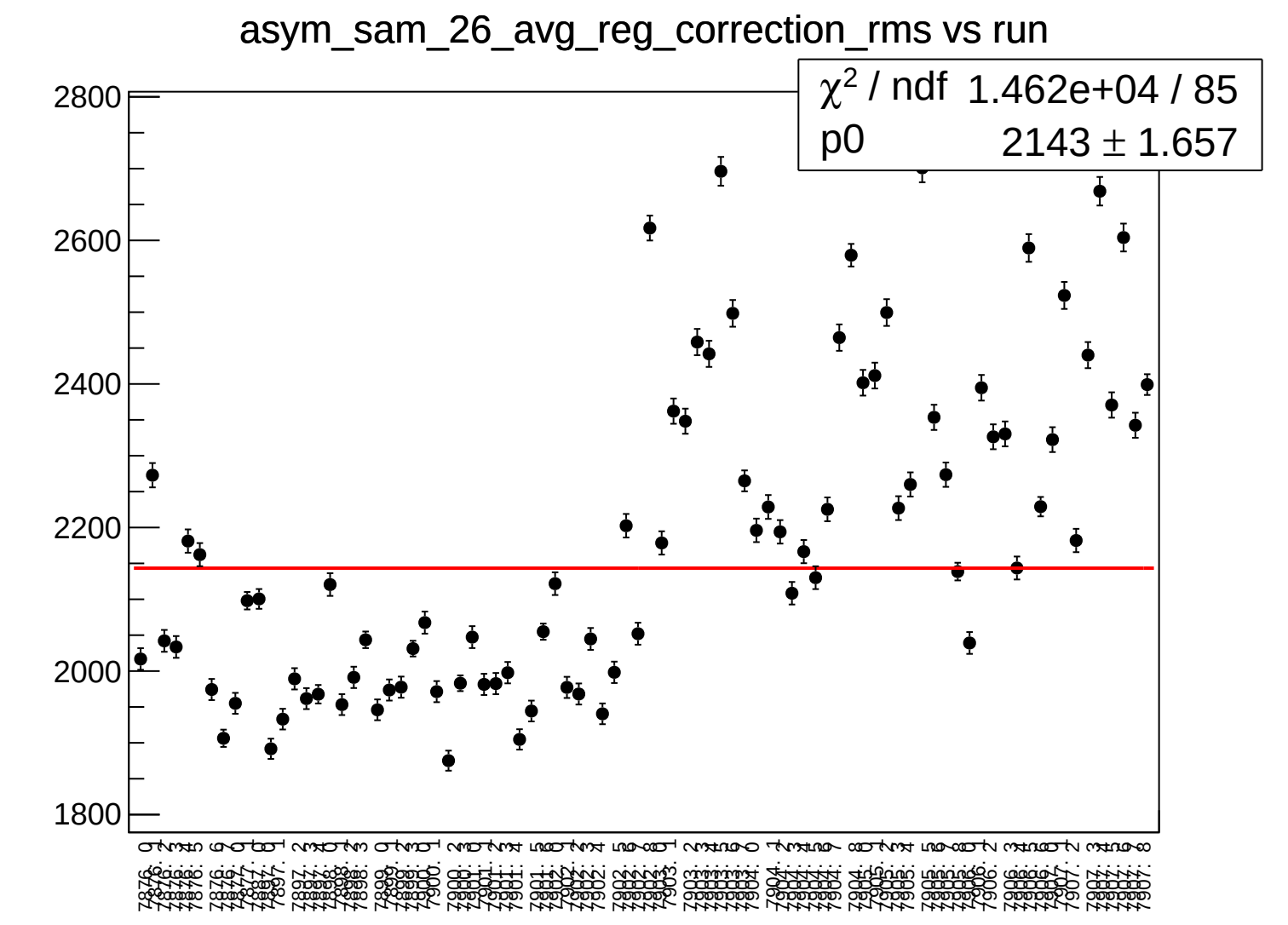

reg_asym_sam_26_avg_mean vs run
χ² / ndf 89.09 / 85
p0 −215.3 ± 291.5
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −7774
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

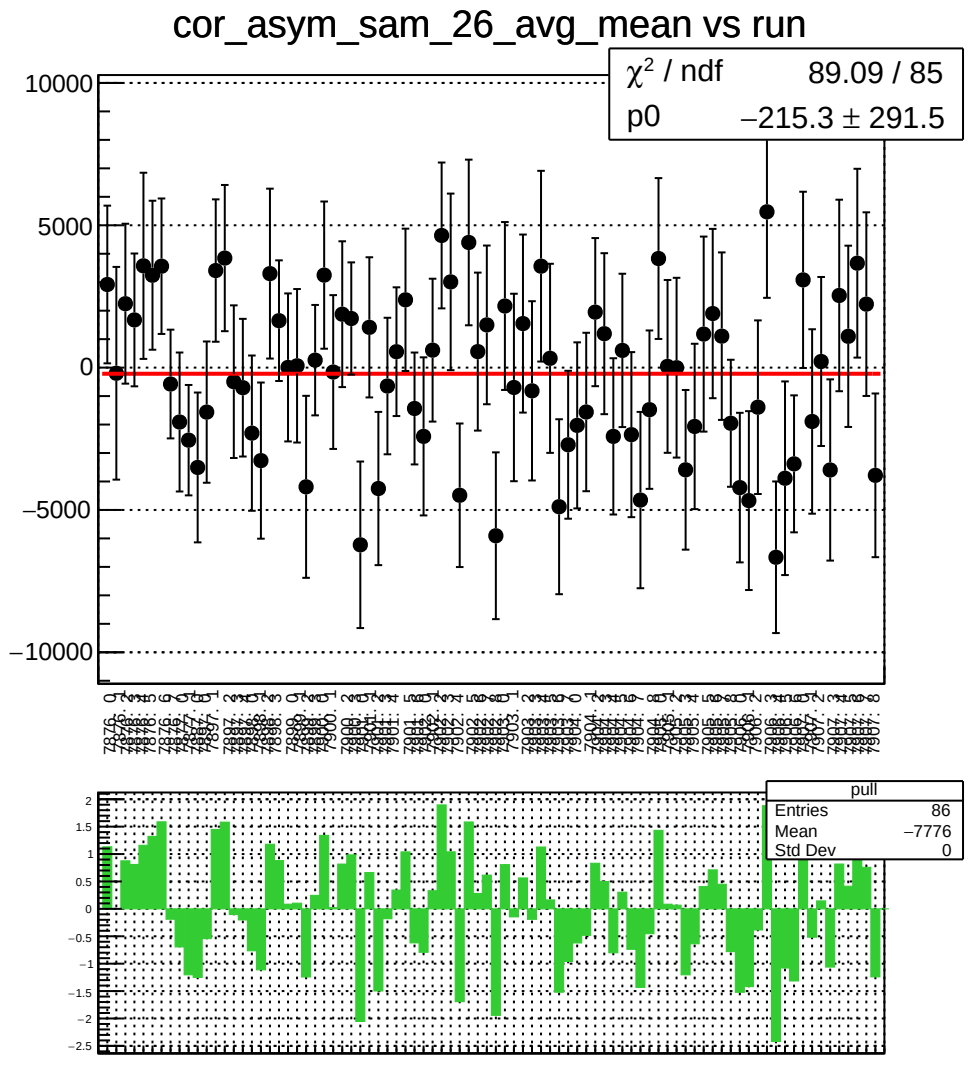

pull1D
Entries 86
Mean 0.0006235
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

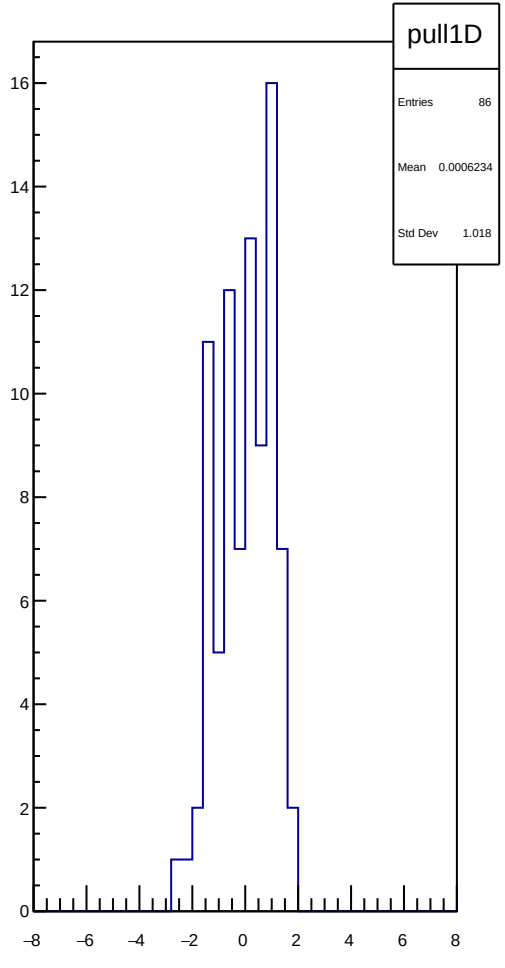

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.971e+04 / 85
p0 266.2 ± 0.2061
360
340
320
300
280
260
240
220
200

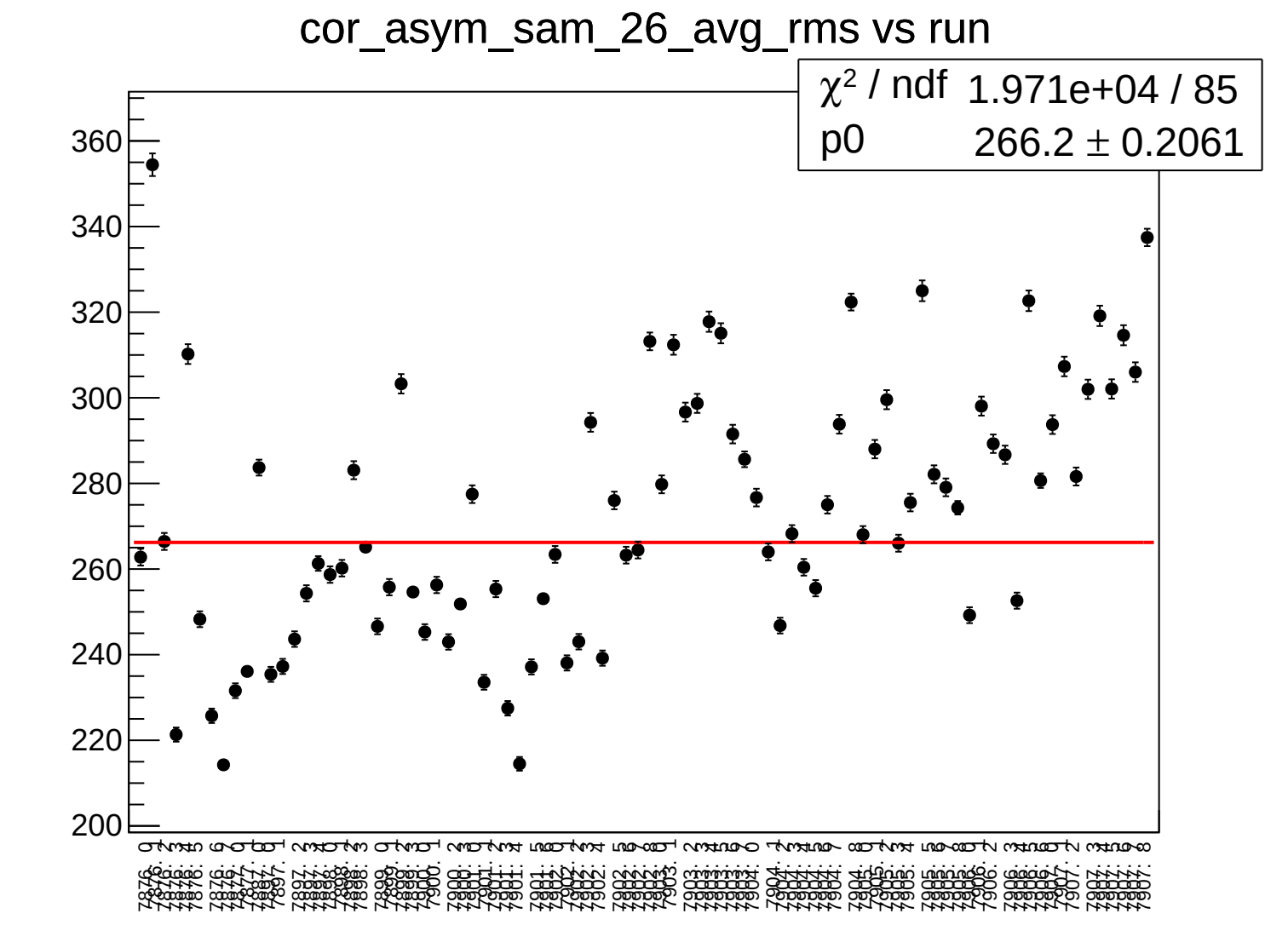

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 81.22 / 85
p0 −3764 ± 2343
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −31.5
Std Dev 0
3
2
1
0
−1
−2

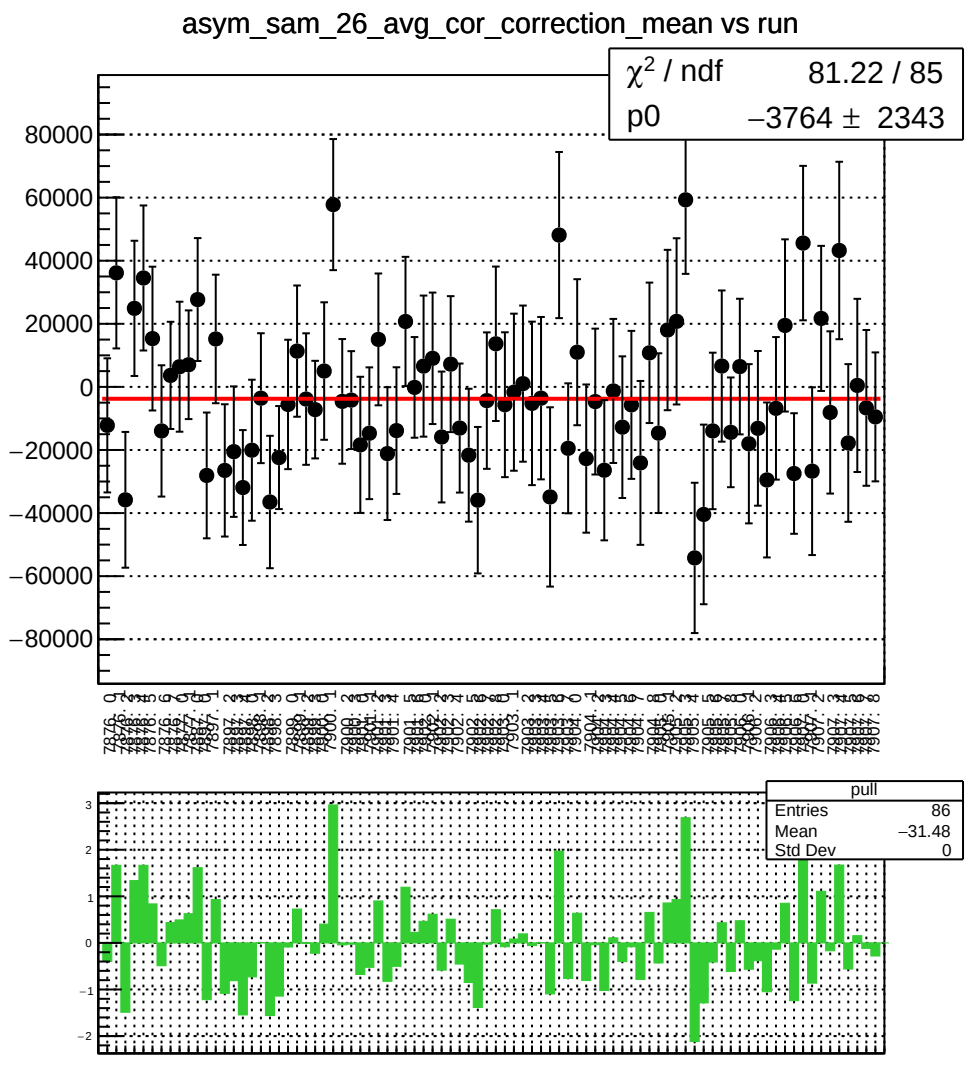

pull1D
Entries 86
Mean 0.01336
Std Dev 0.9717
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

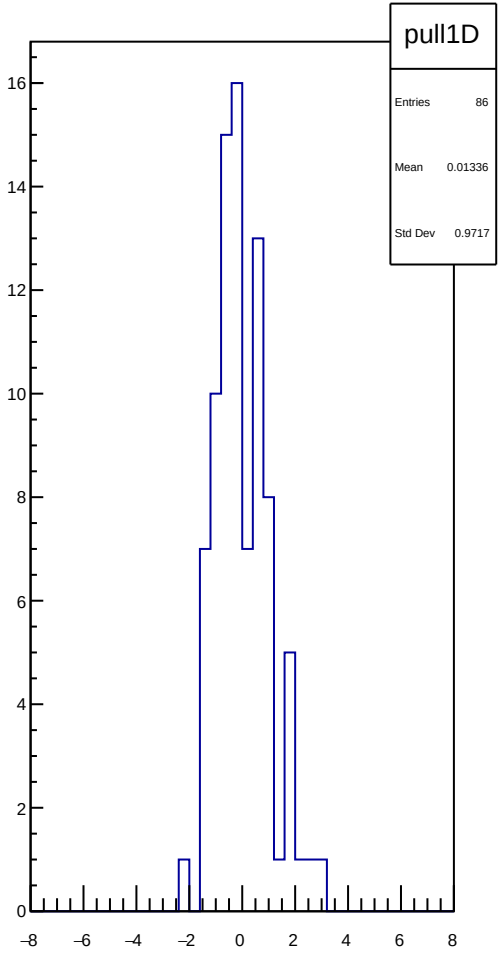

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.462e+04 / 85
p0 2143 ± 1.657
2800
2600
2400
2200
2000
1800

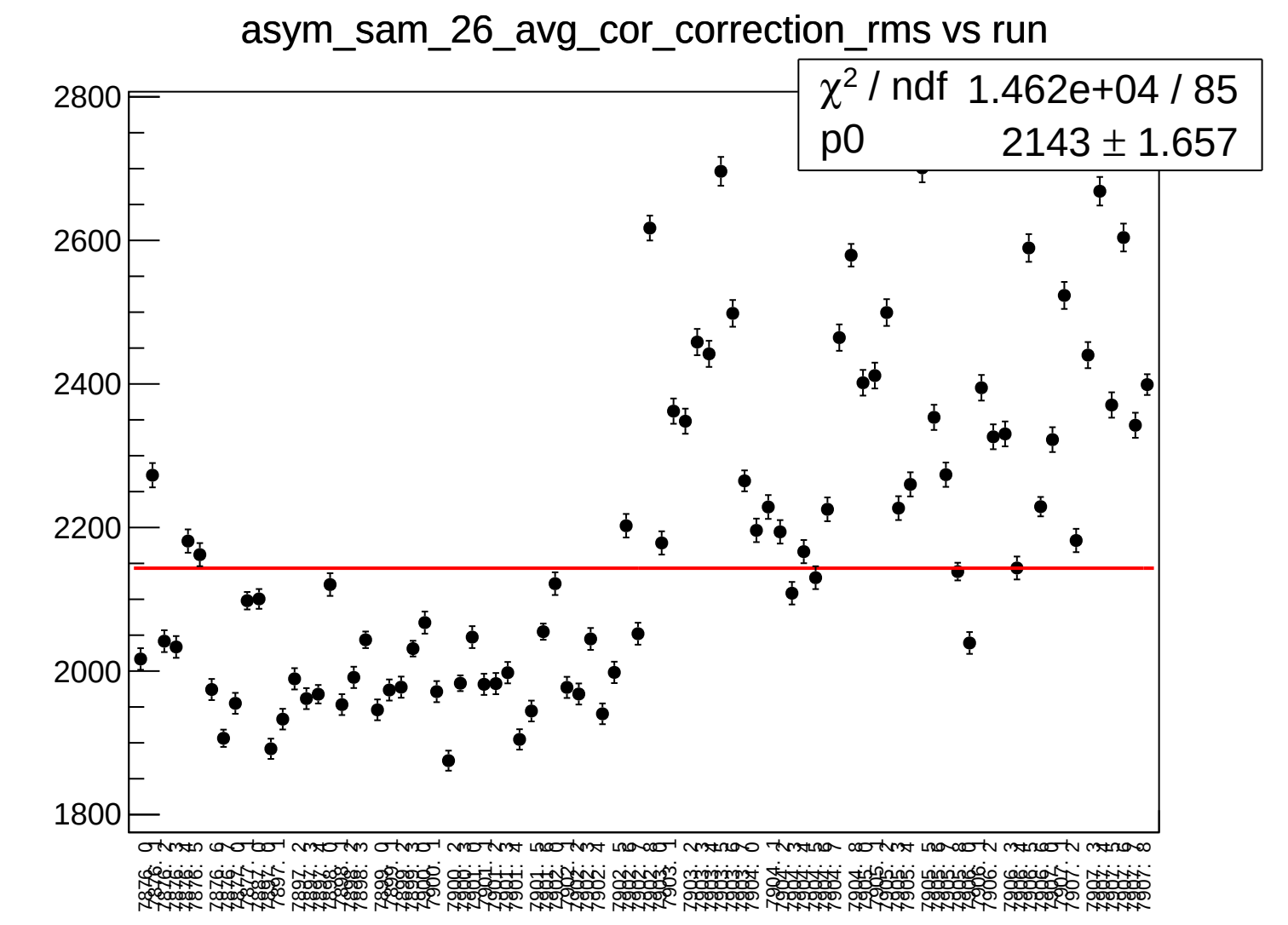

cor_asym_sam_26_avg_mean vs run
χ² / ndf 89.09 / 85
p0 −215.3 ± 291.5
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −7776
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

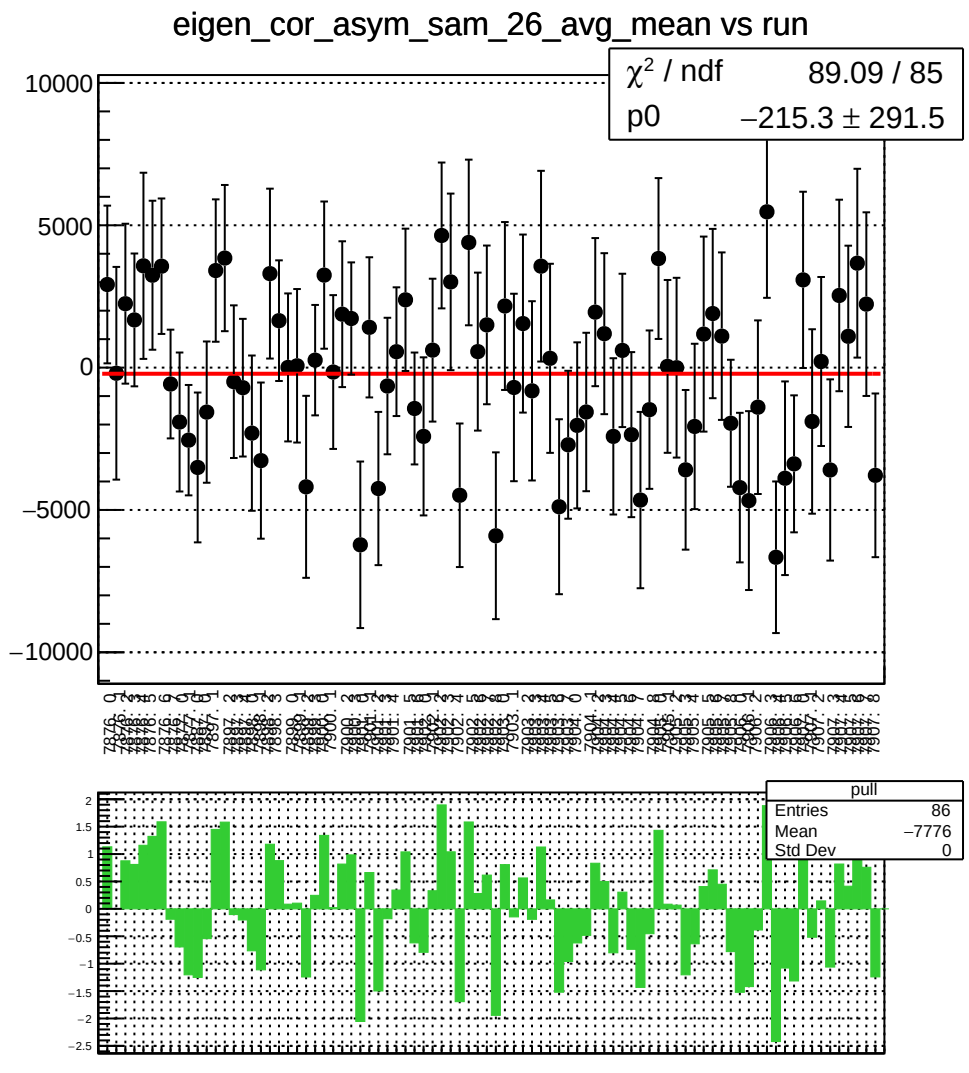

pull1D
Entries 86
Mean 0.0006234
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

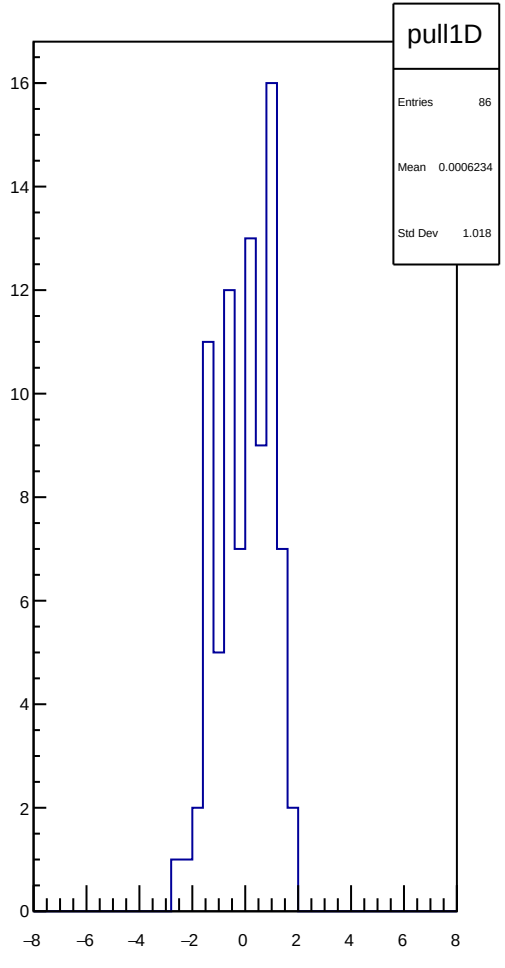

cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.971e+04 / 85
p0 266.2 ± 0.2061
360
340
320
300
280
260
240
220
200


asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 81.22 / 85
p0 −3764 ± 2343
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −31.48
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.01336
Std Dev 0.9717
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.462e+04 / 85
p0 2143 ± 1.657
2800
2600
2400
2200
2000
1800


eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 89.09 / 85
p0 −215.3 ± 291.5
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −7776
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 86
Mean 0.0006234
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
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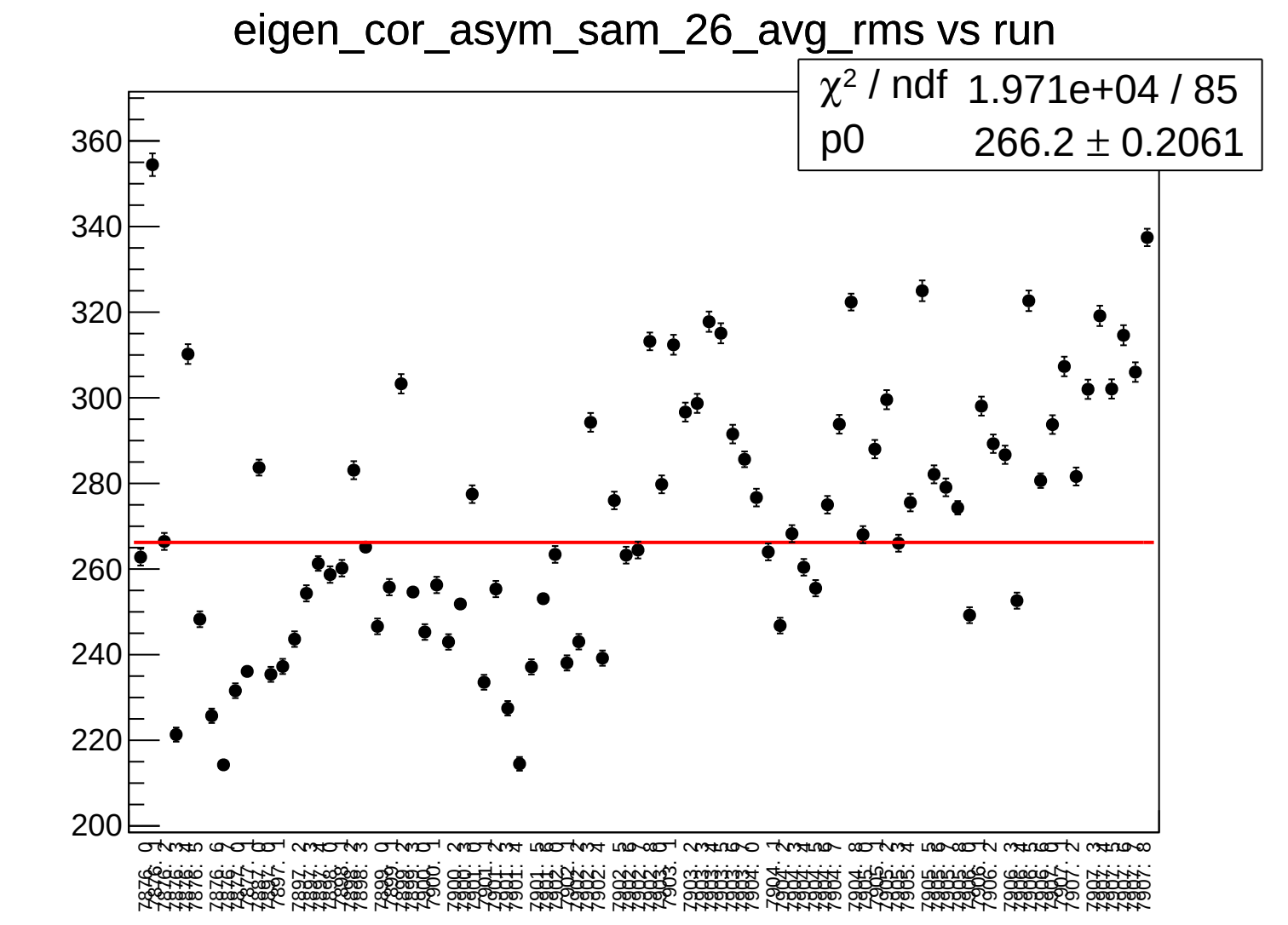
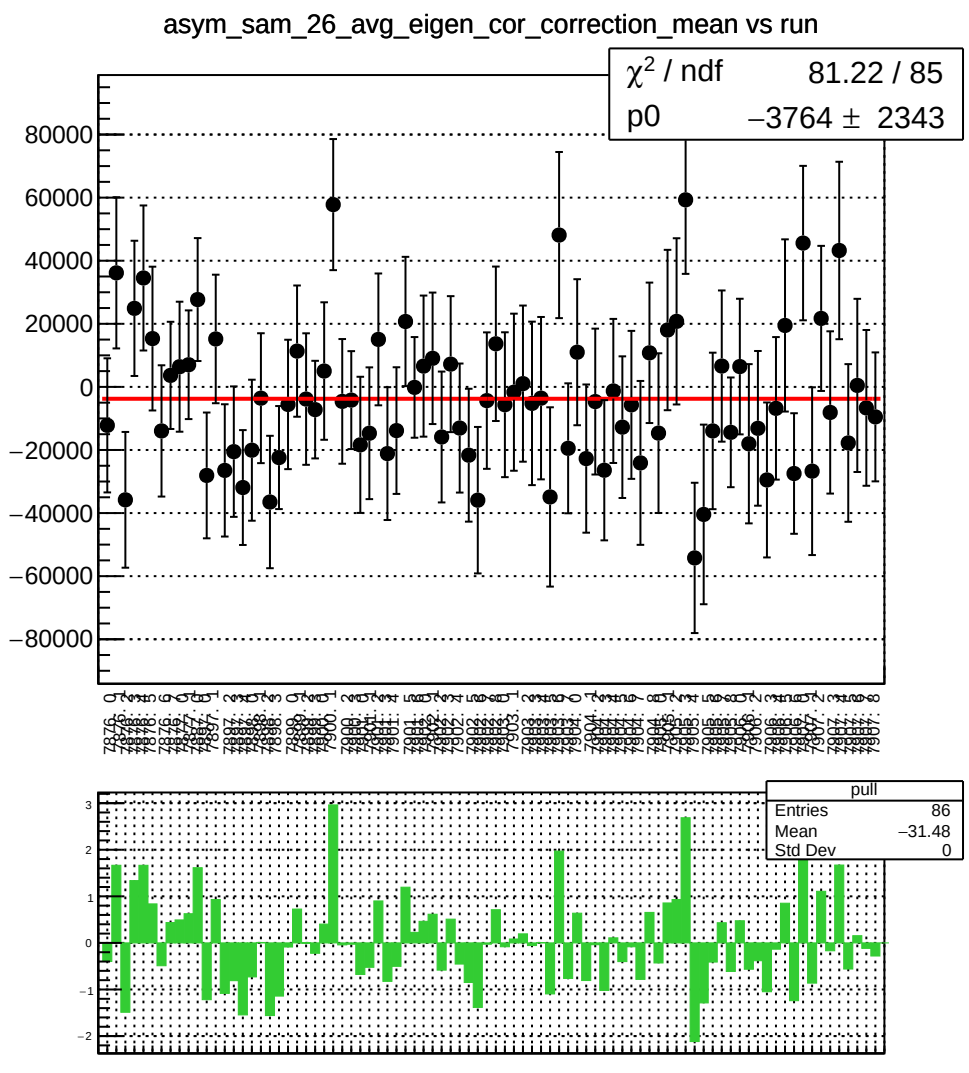
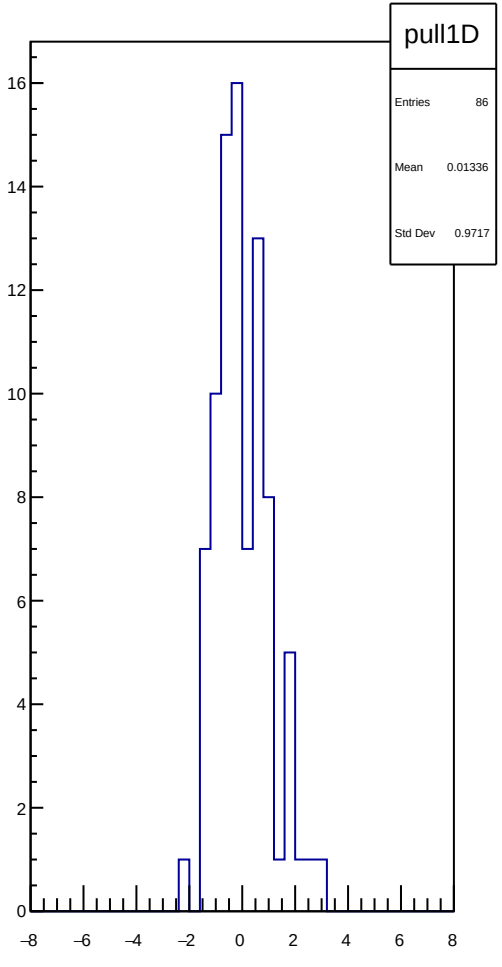
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.971e+04 / 85
p0 266.2 ± 0.2061
360
340
320
300
280
260
240
220
200


asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.22 / 85
p0 −3764 ± 2343
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −31.48
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.01336
Std Dev 0.9717
16
14
12
10
8
6
4
2
0
−8
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2
4
6
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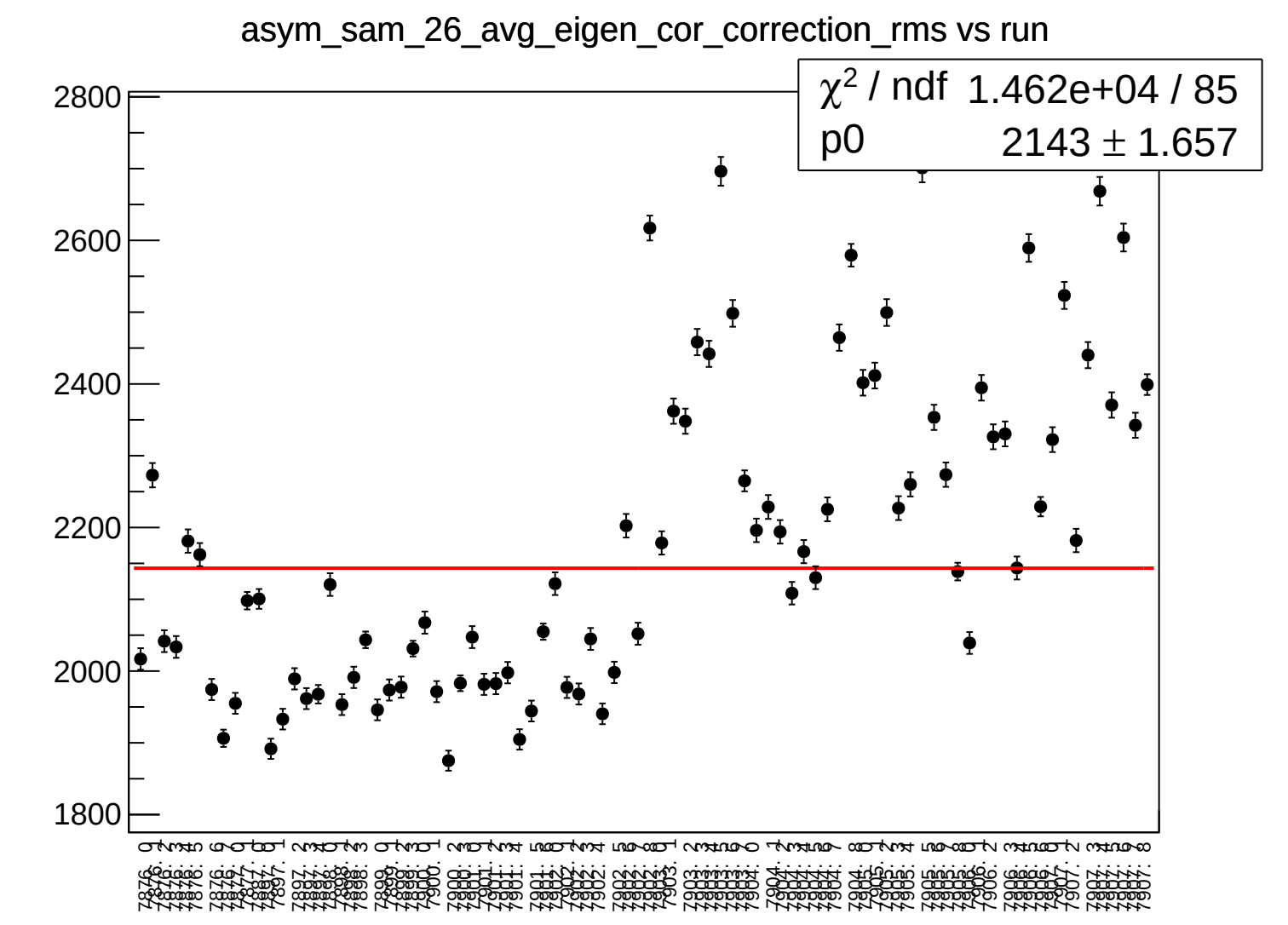
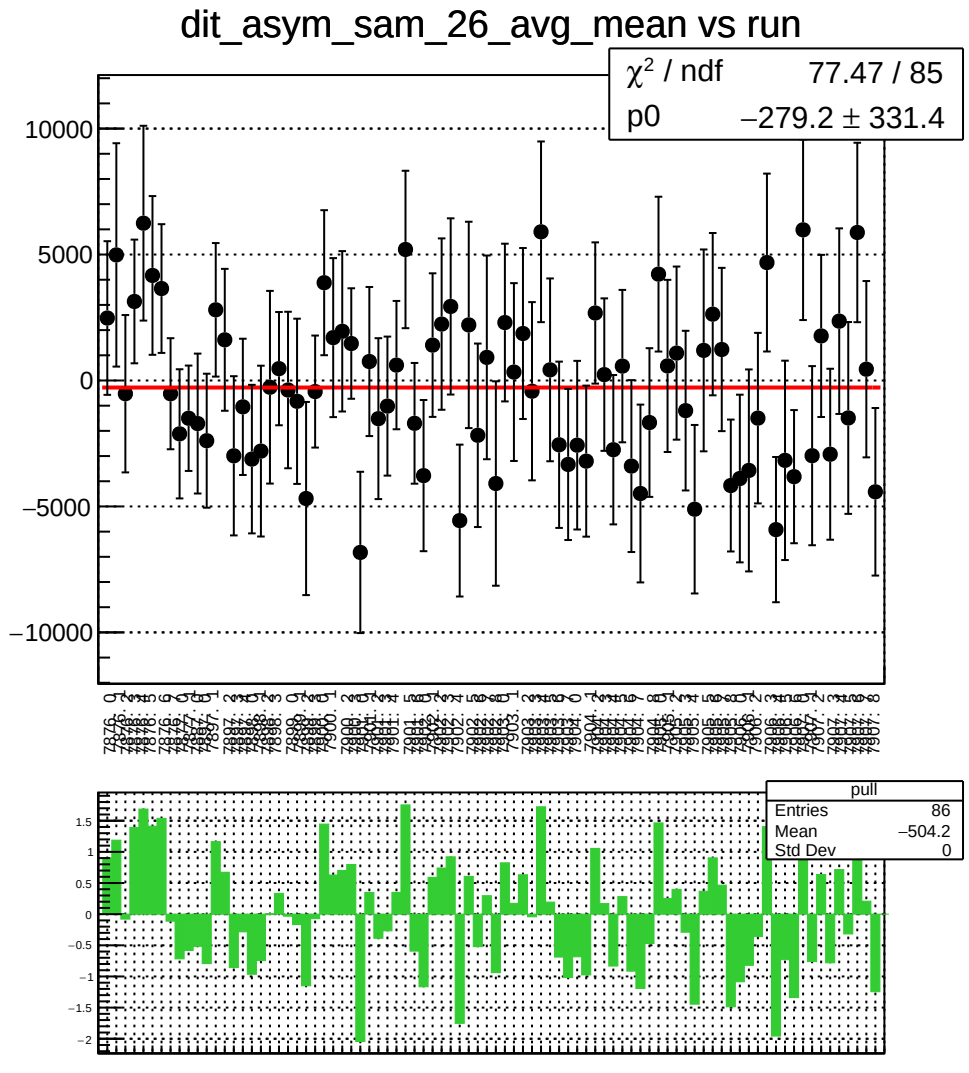
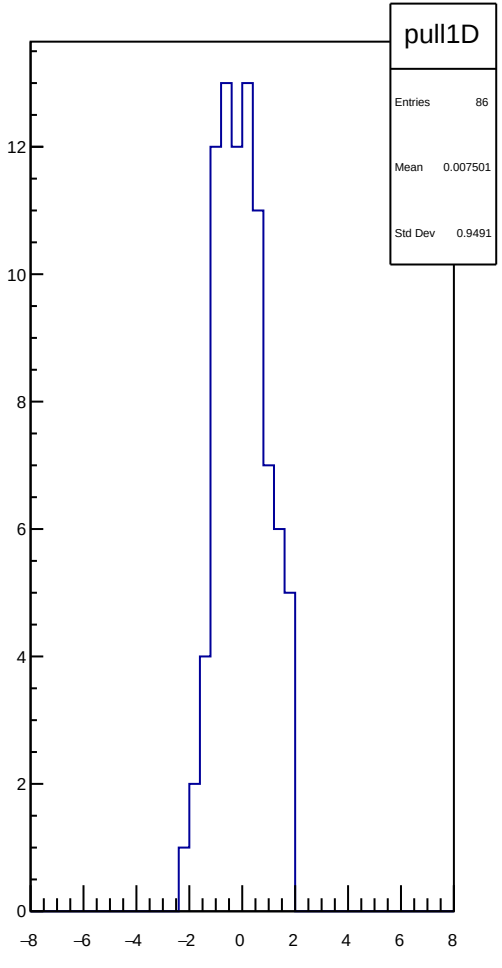
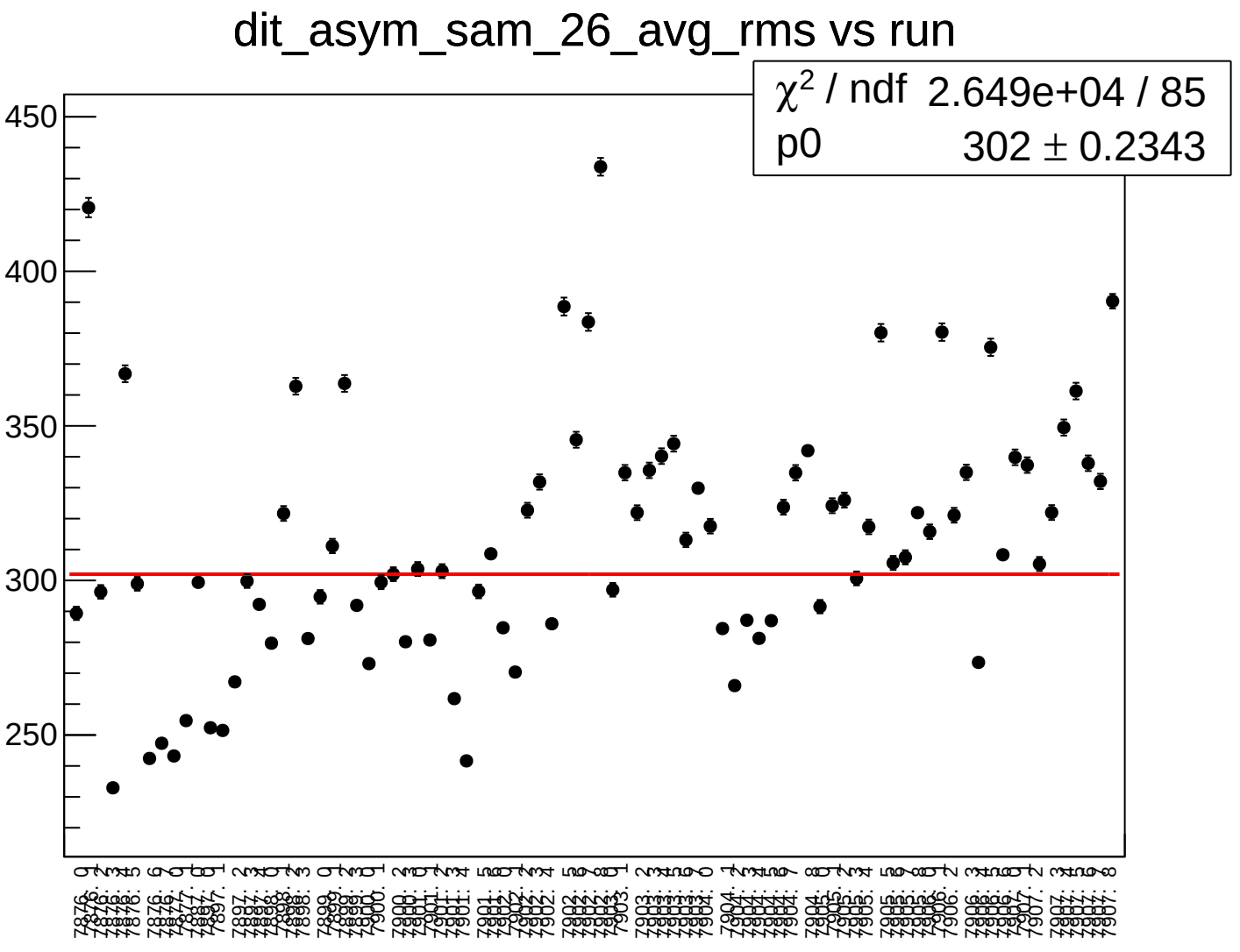
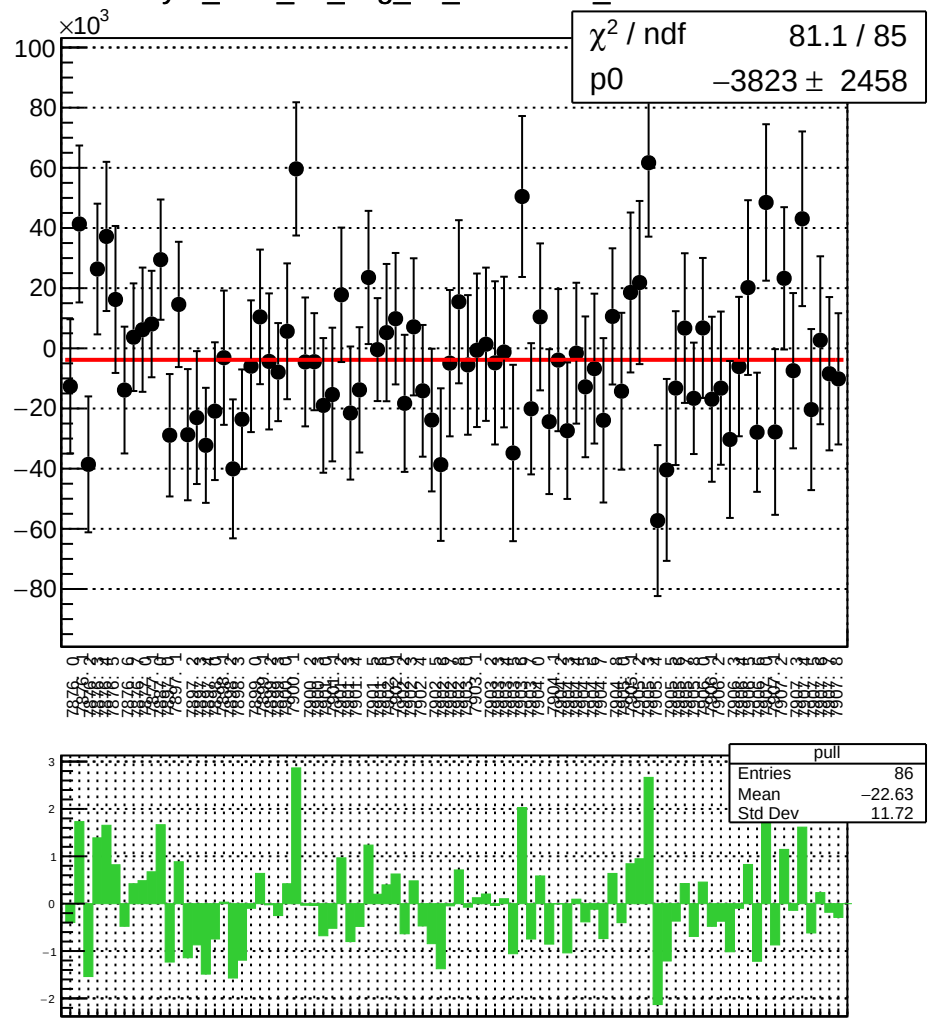
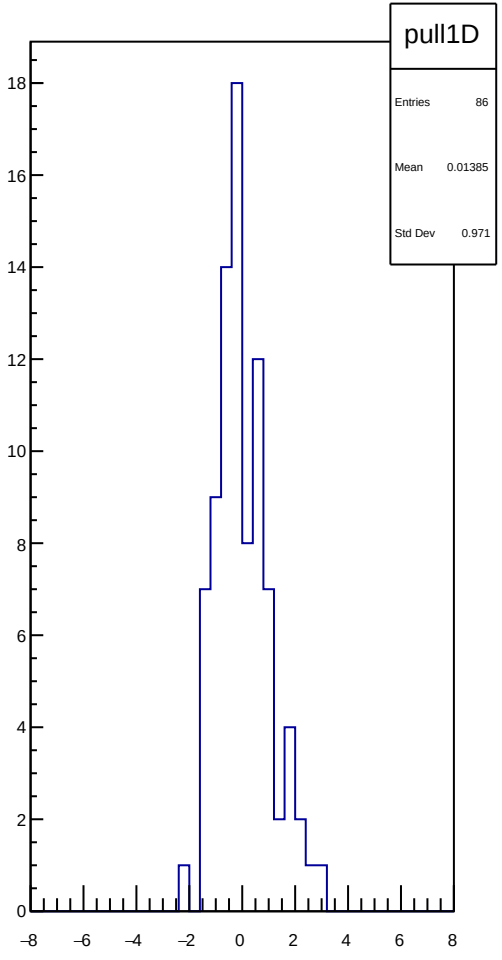

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.462e+04 / 85
p0 2143 ± 1.657
2800
2600
2400
2200
2000
1800

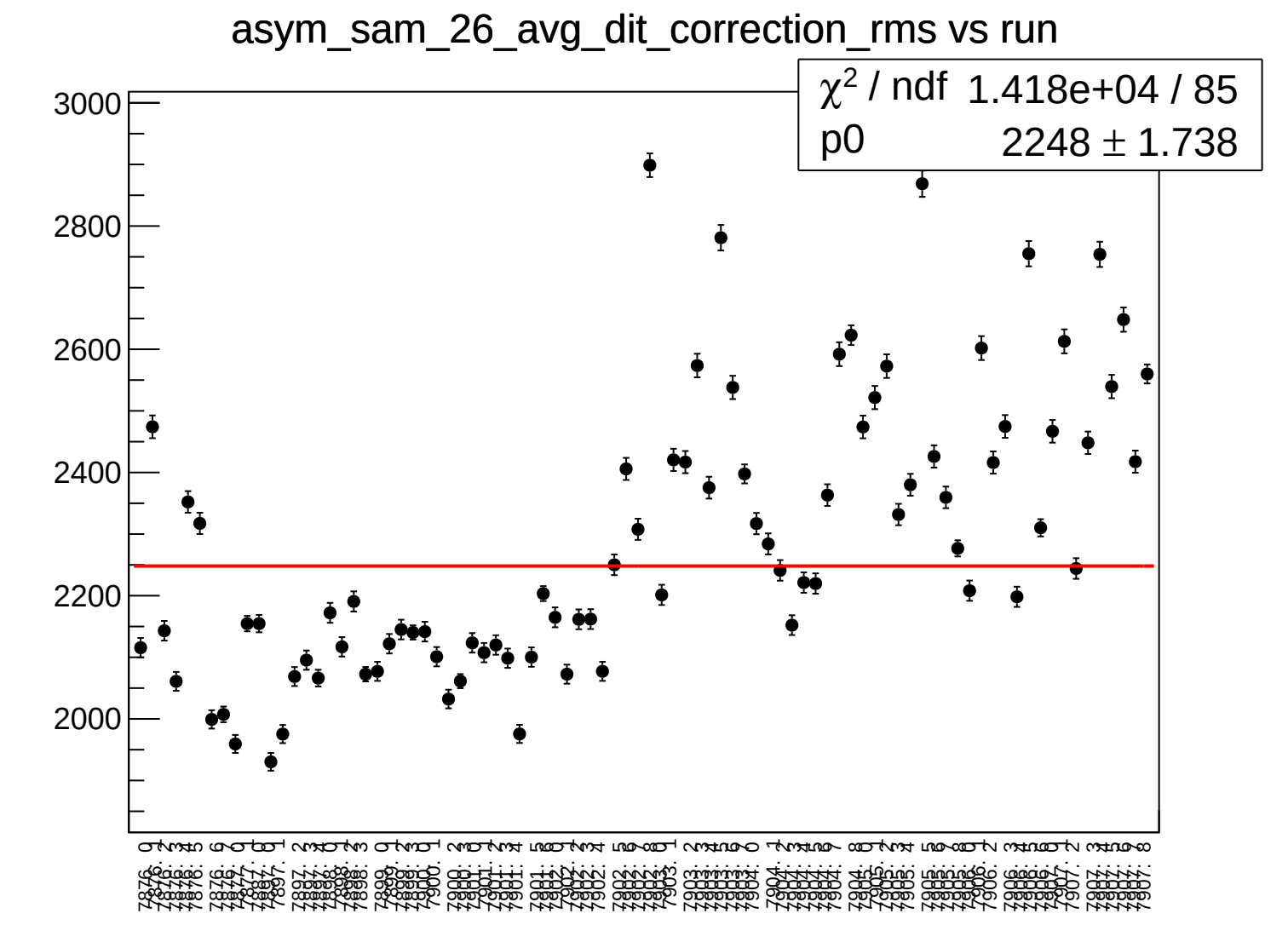

dit_asym_sam_26_avg_mean vs run
χ² / ndf 77.47 / 85
p0 −279.2 ± 331.4
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −504.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

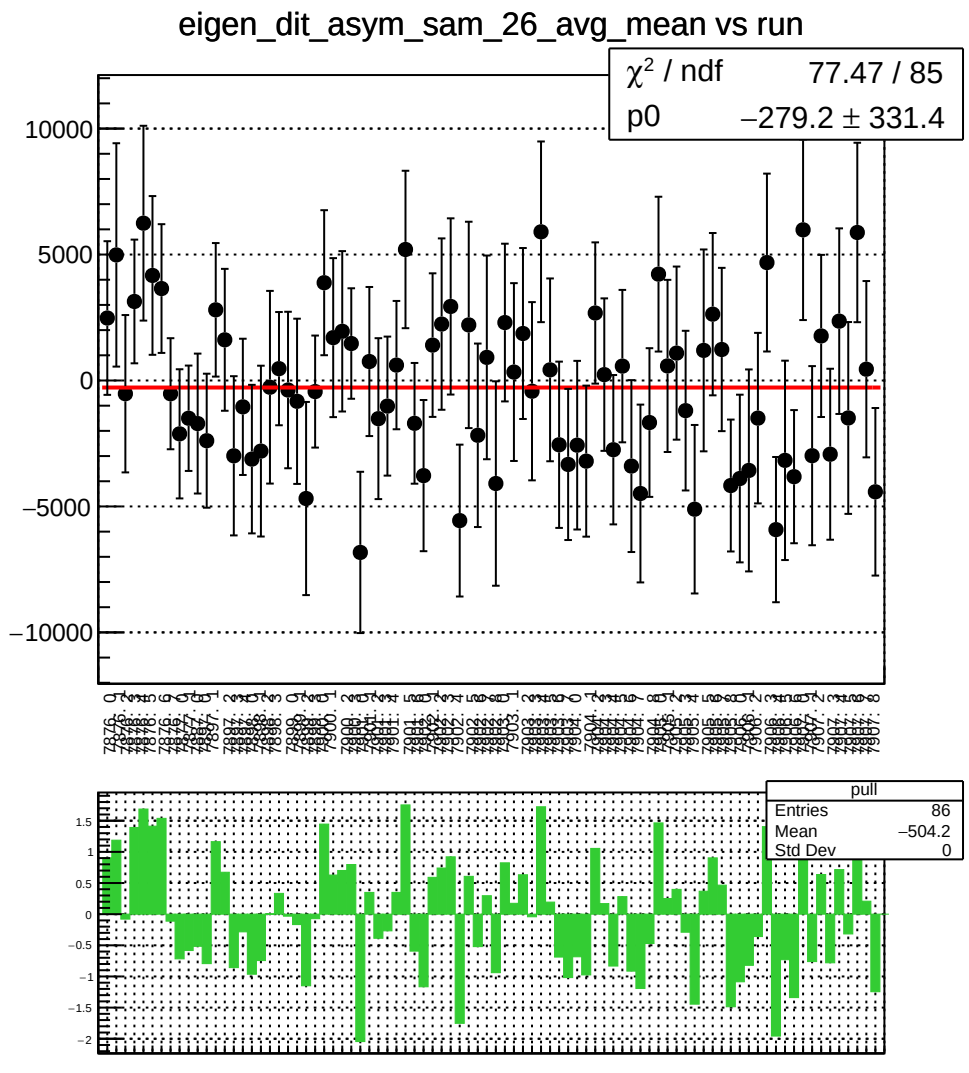

pull1D
Entries 86
Mean 0.007501
Std Dev 0.9491
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

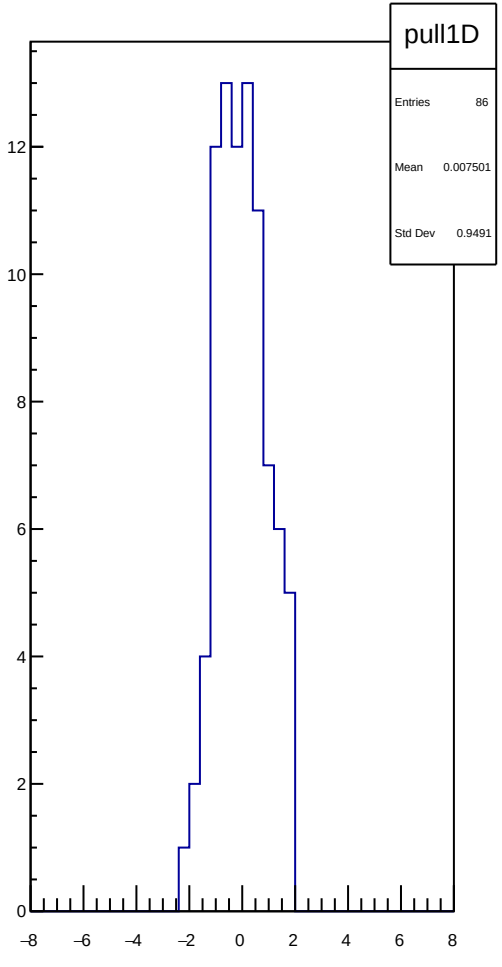

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.649e+04 / 85
p0 302 ± 0.2343
450
400
350
300
250

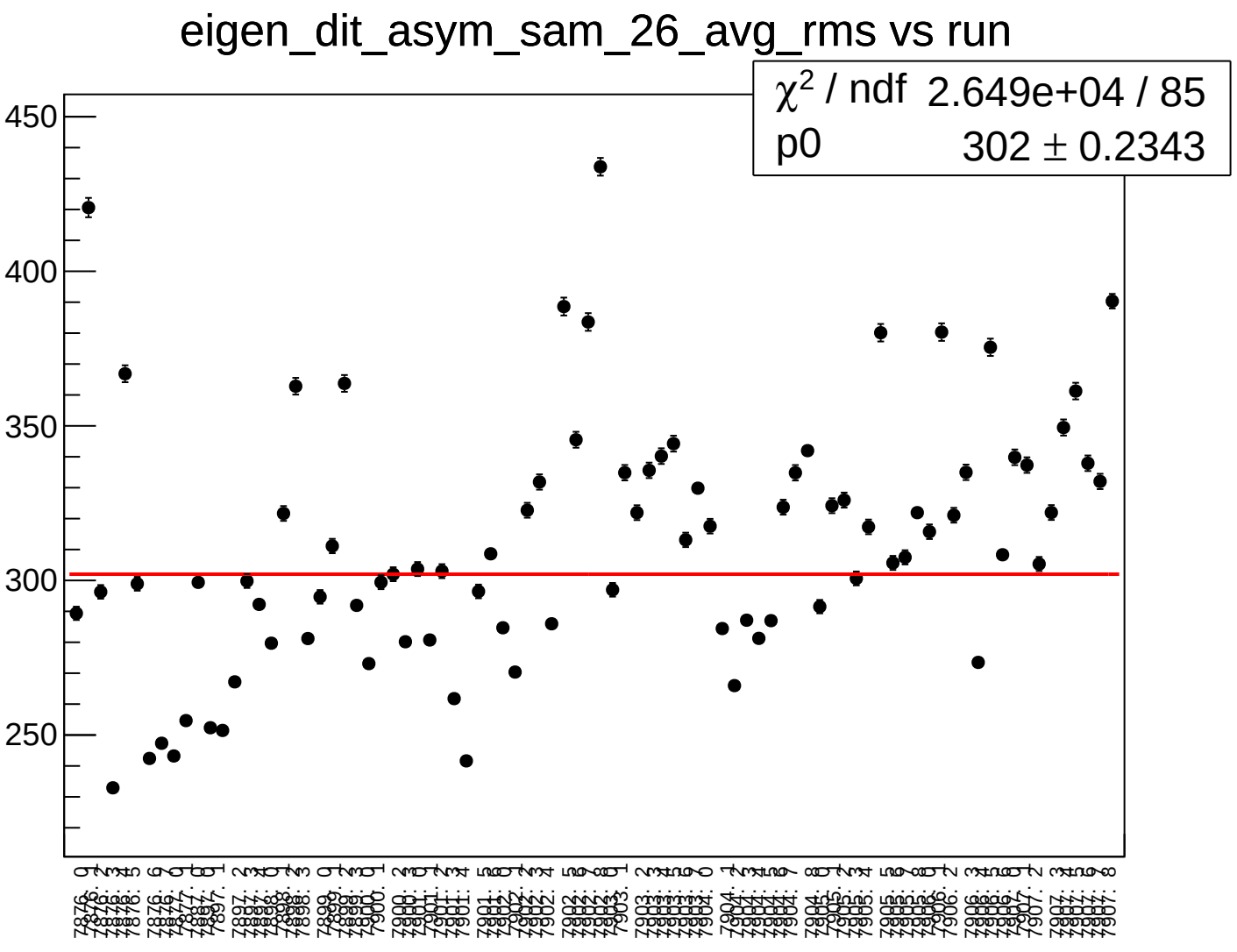

asym_sam_26_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.1 / 85
p0 −3823 ± 2458
pull
Entries 86
Mean −22.63
Std Dev 11.72

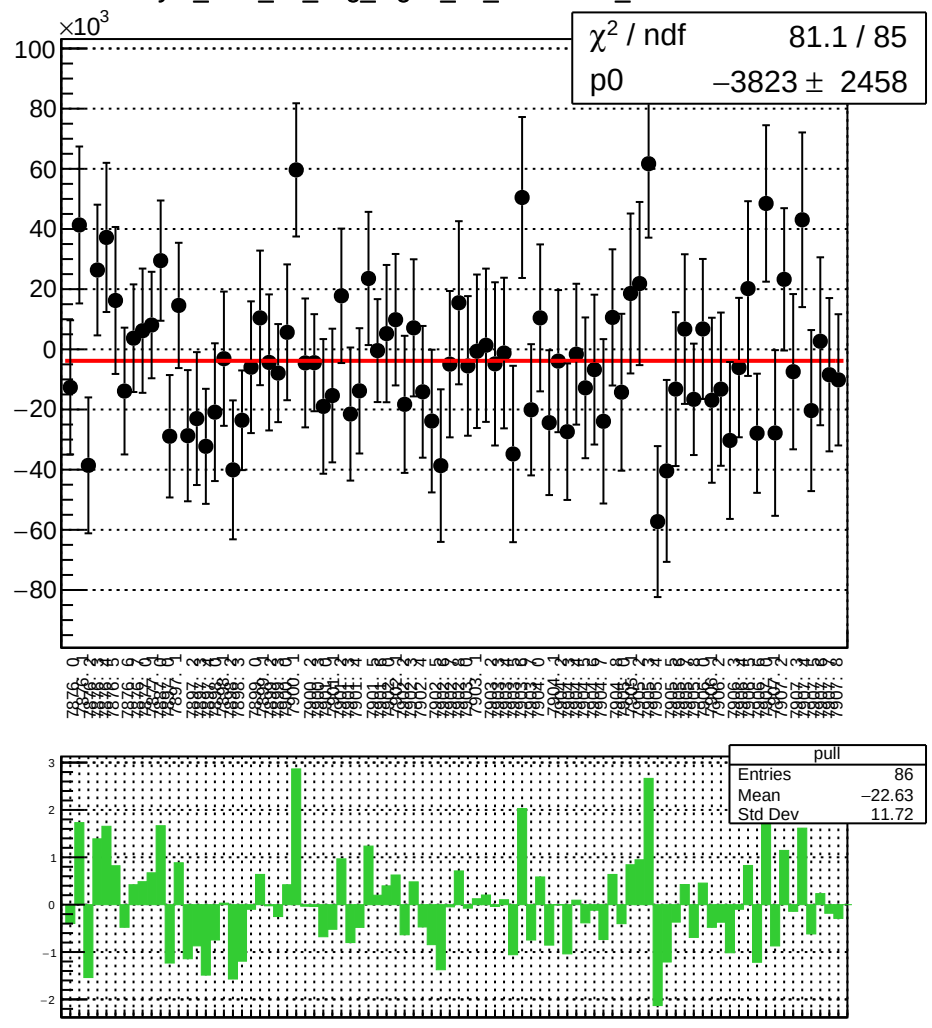

pull1D
Entries 86
Mean 0.01385
Std Dev 0.971

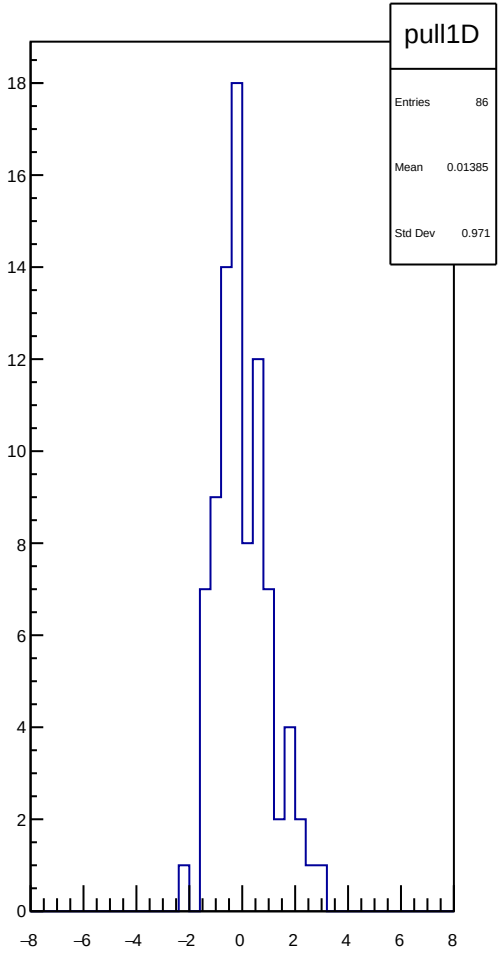

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.418e+04 / 85
p0 2248 ± 1.738
3000
2800
2600
2400
2200
2000

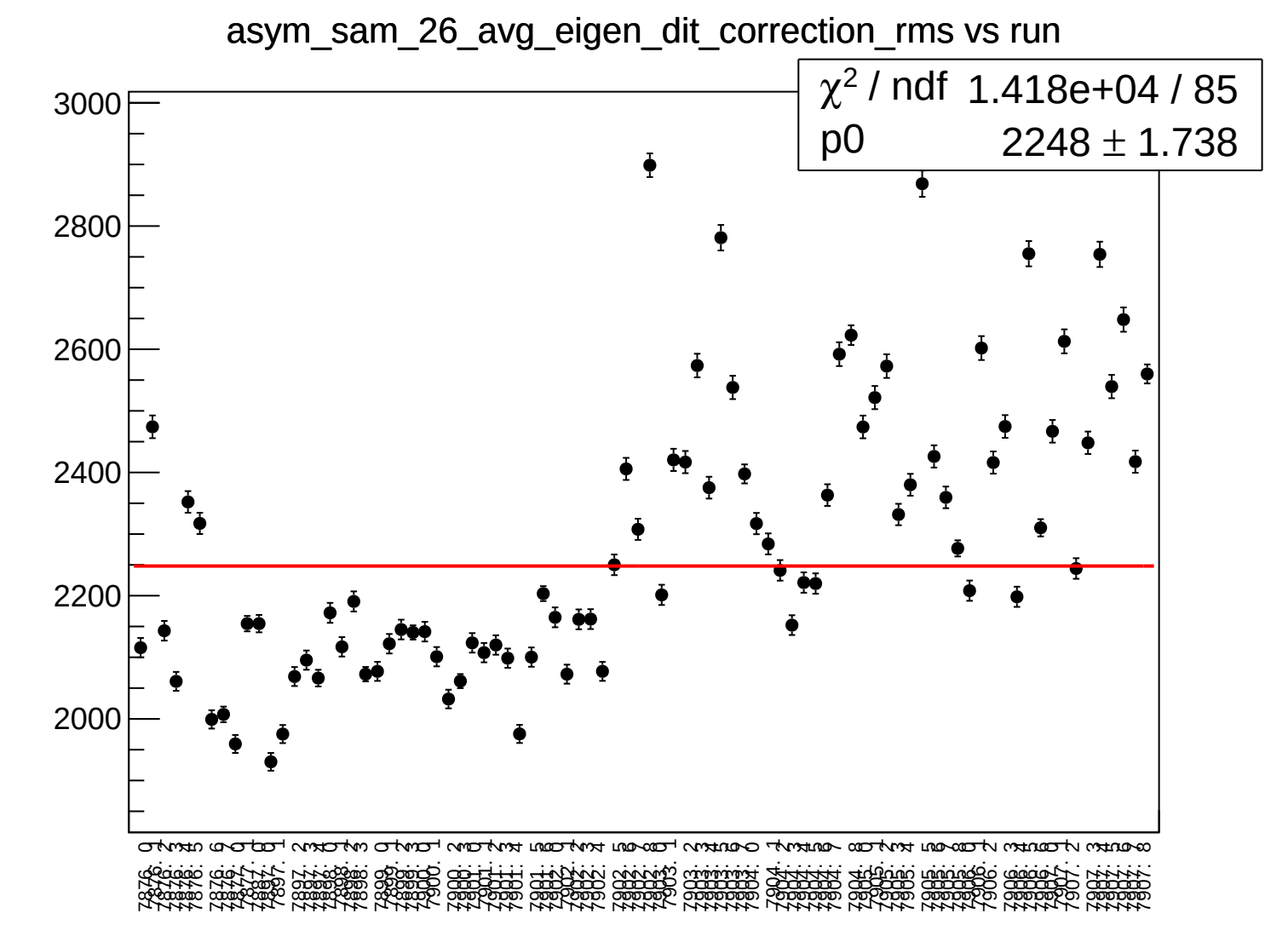

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 77.47 / 85
p0 −279.2 ± 331.4
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −504.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

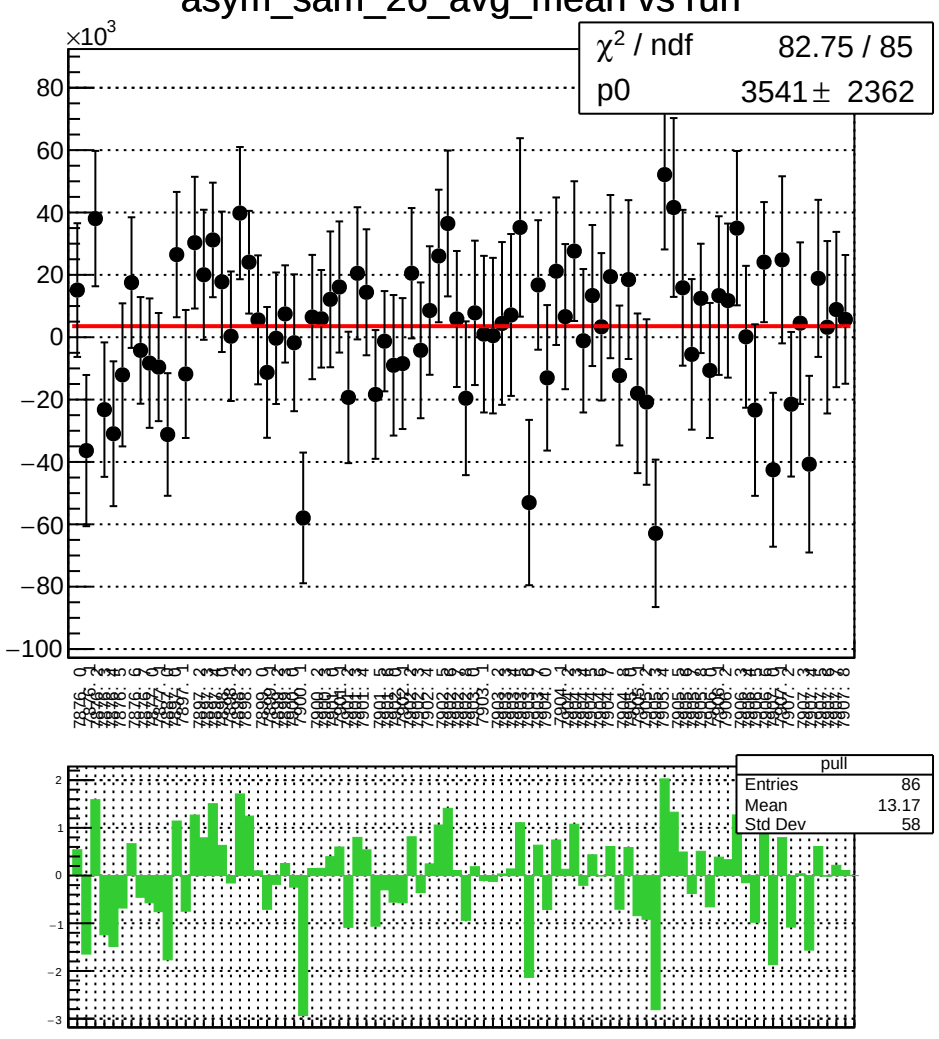

pull1D
Entries 86
Mean 0.007501
Std Dev 0.9491
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

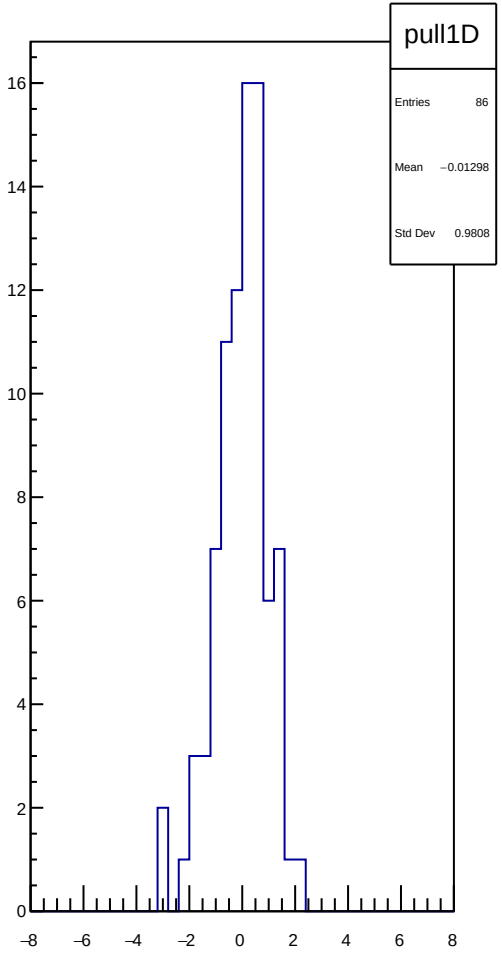

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.649e+04 / 85
p0 302 ± 0.2343
450
400
350
300
250

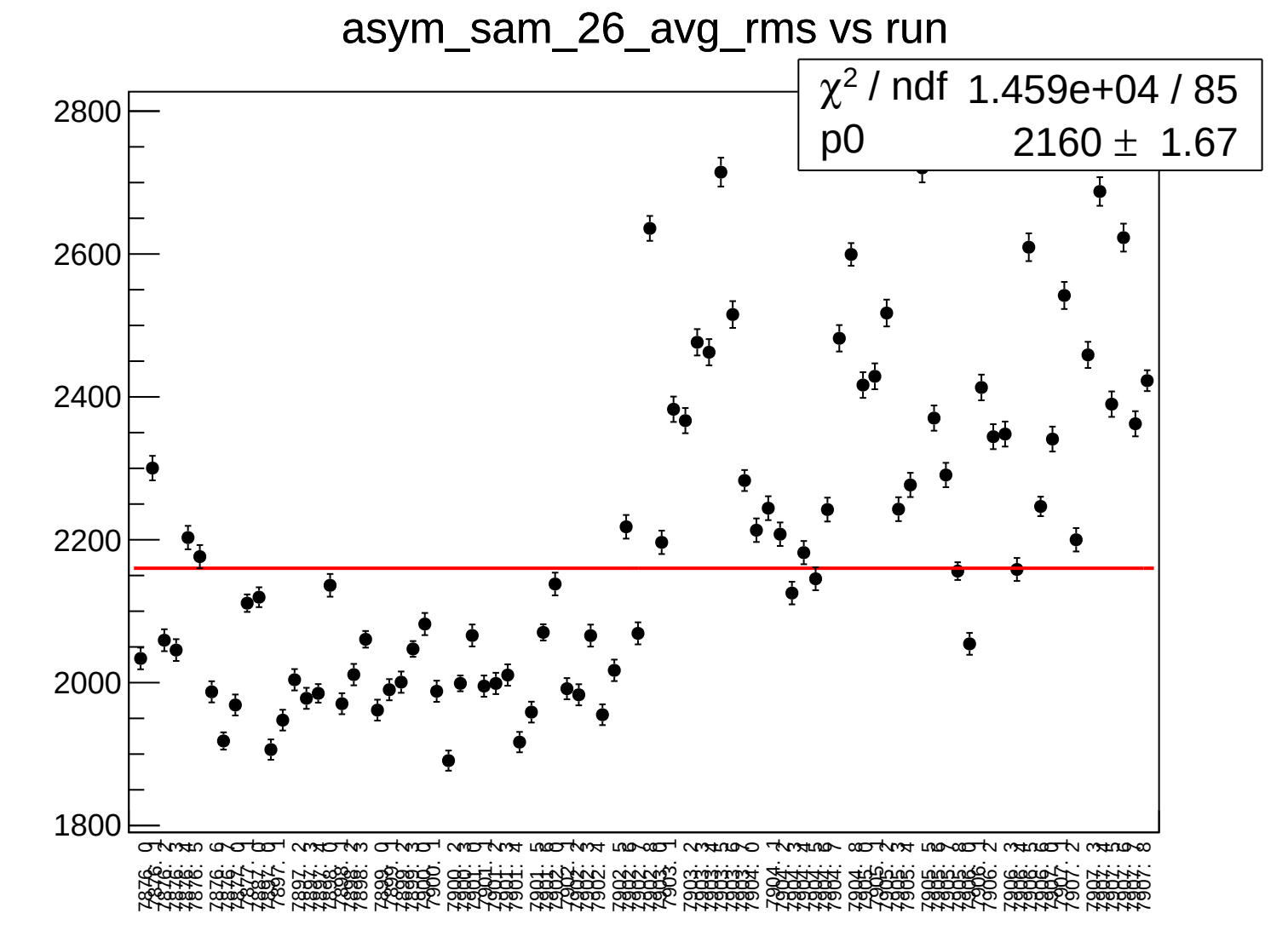

asym_sam_26_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.1 / 85
p0 −3823 ± 2458
pull
Entries 86
Mean −22.63
Std Dev 11.72

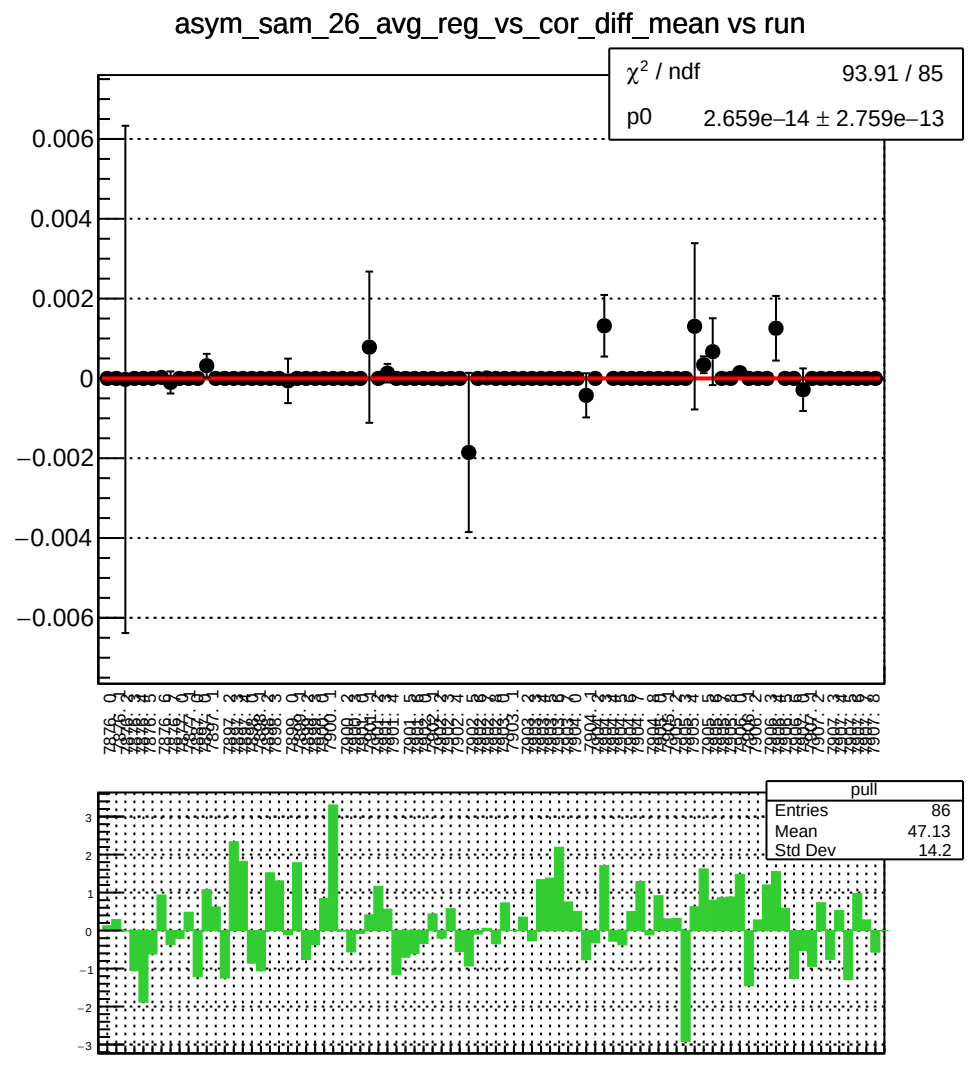

pull1D
Entries 86
Mean 0.01385
Std Dev 0.971

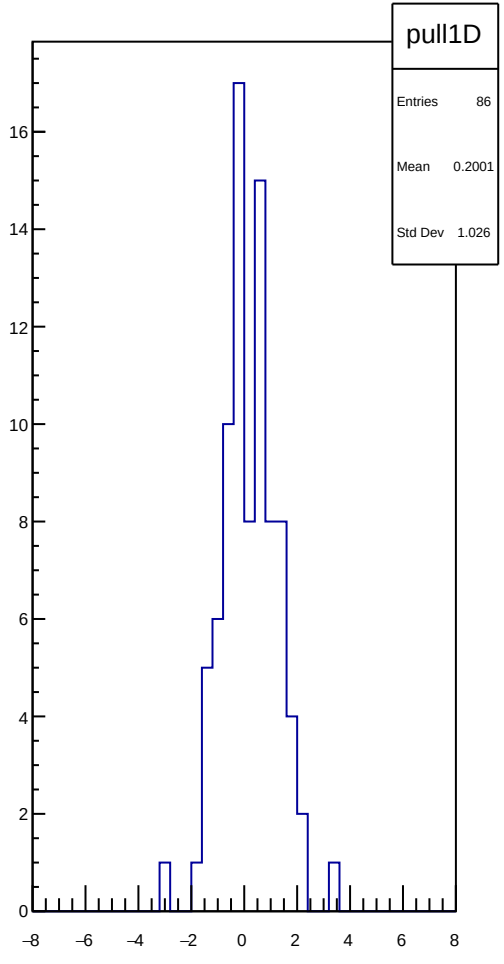

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.418e+04 / 85
p0 2248 ± 1.738
3000
2800
2600
2400
2200
2000

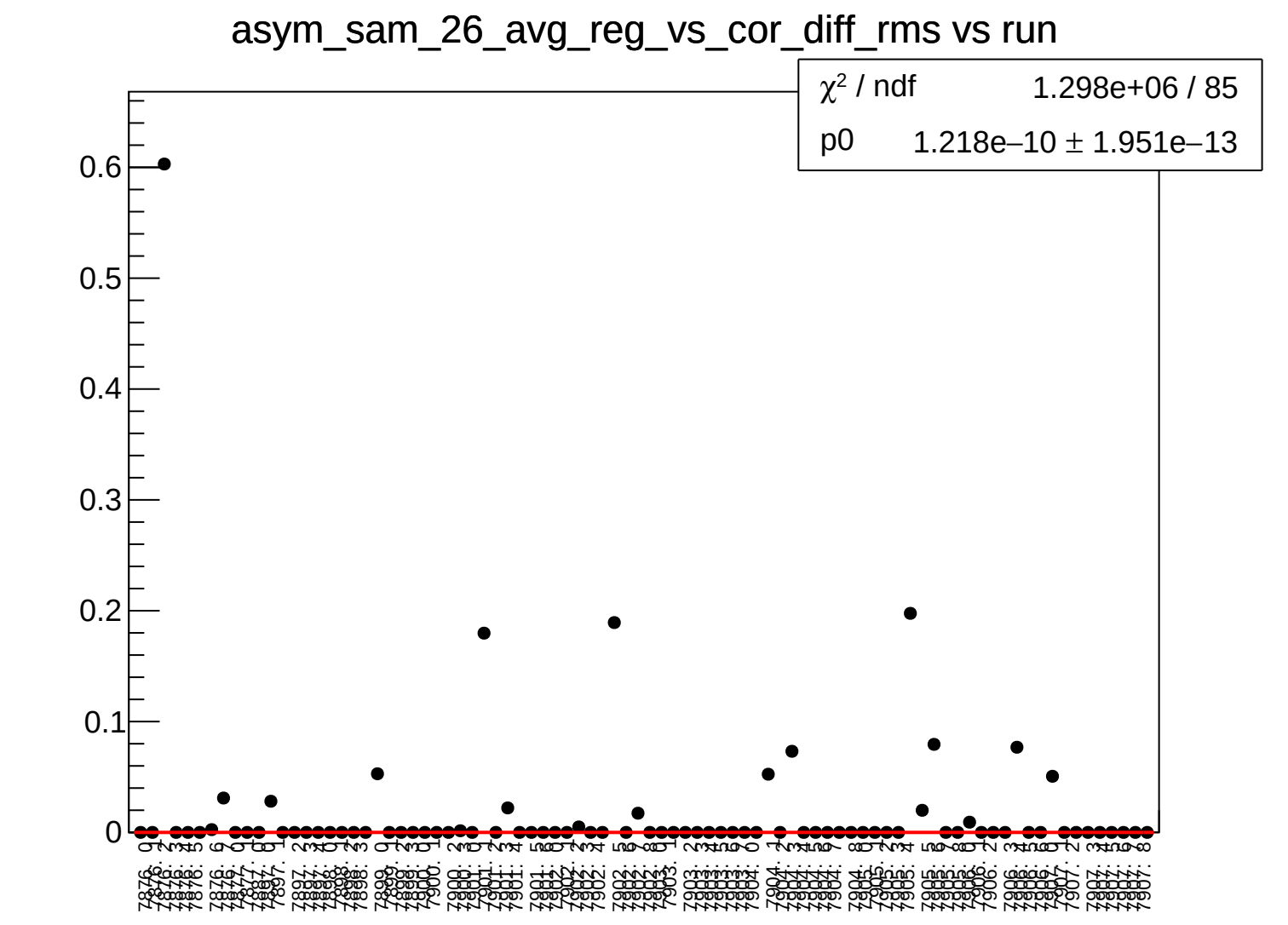

asym_sam_26_avg_mean vs run
×10^3
χ^2 / ndf 82.75 / 85
p0 3541 ± 2362
pull
Entries 86
Mean 13.17
Std Dev 58

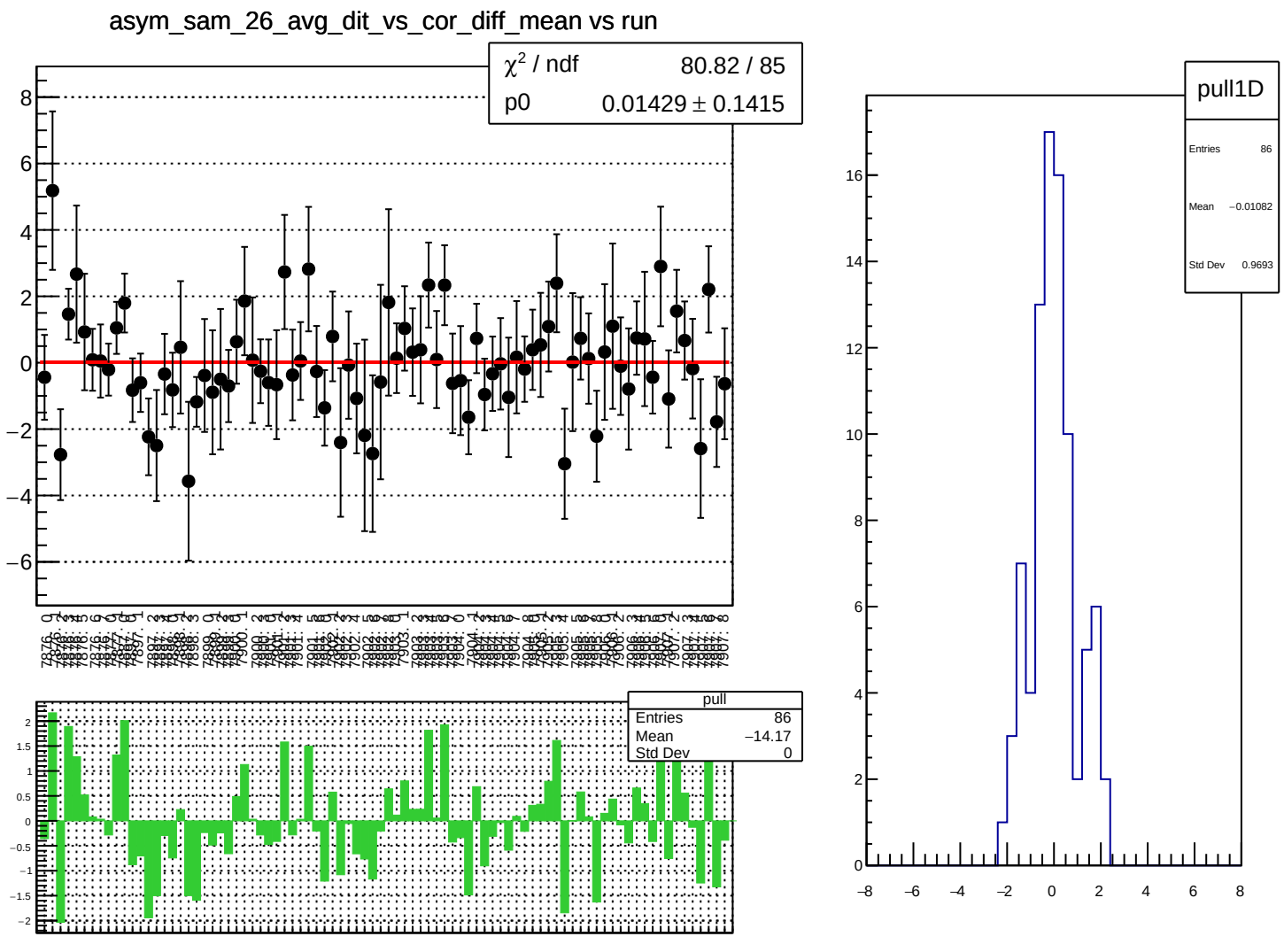

pull1D
Entries 86
Mean −0.01298
Std Dev 0.9808

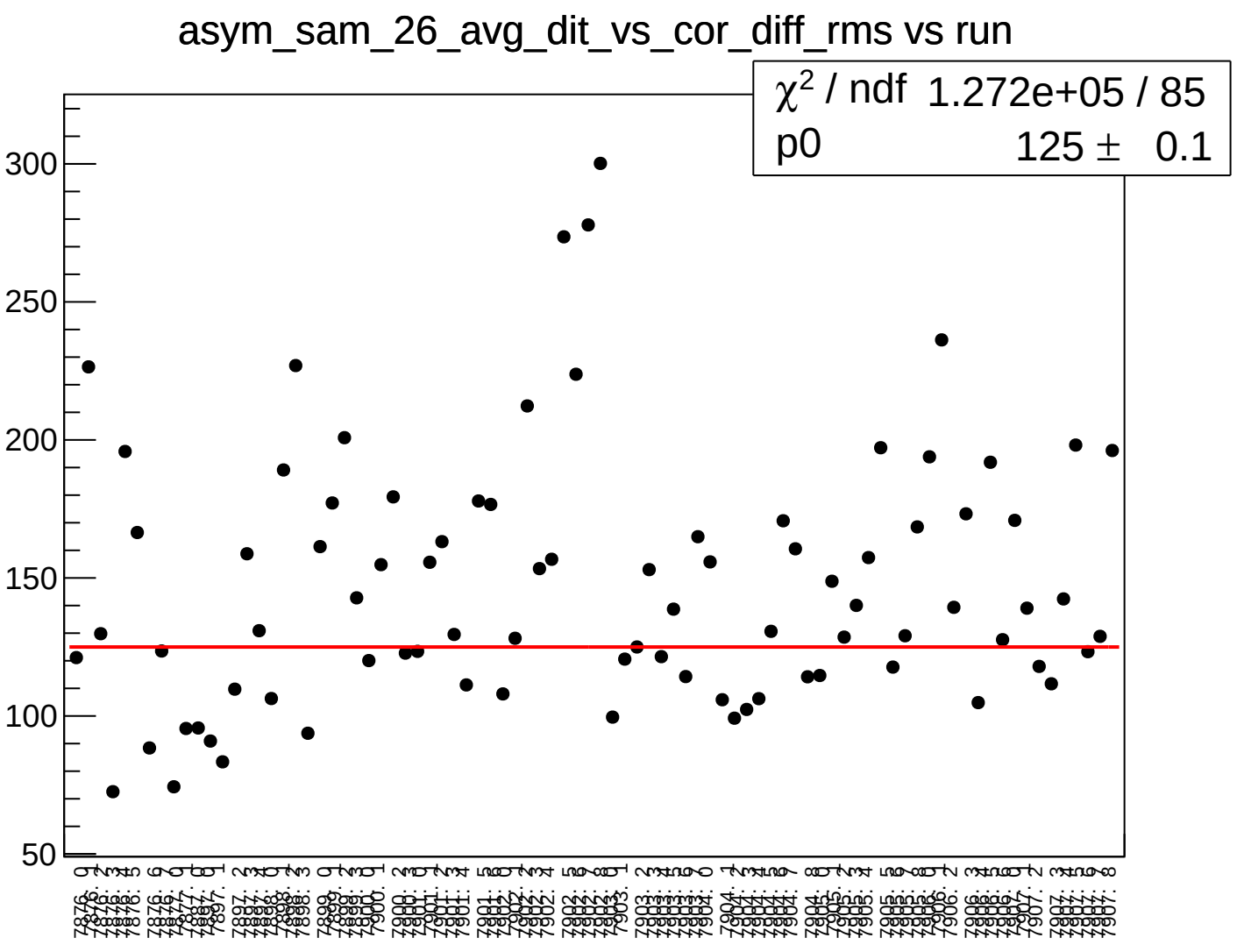

asym_sam_26_avg_rms vs run
χ² / ndf 1.459e+04 / 85
p0 2160 ± 1.67
2800
2600
2400
2200
2000
1800

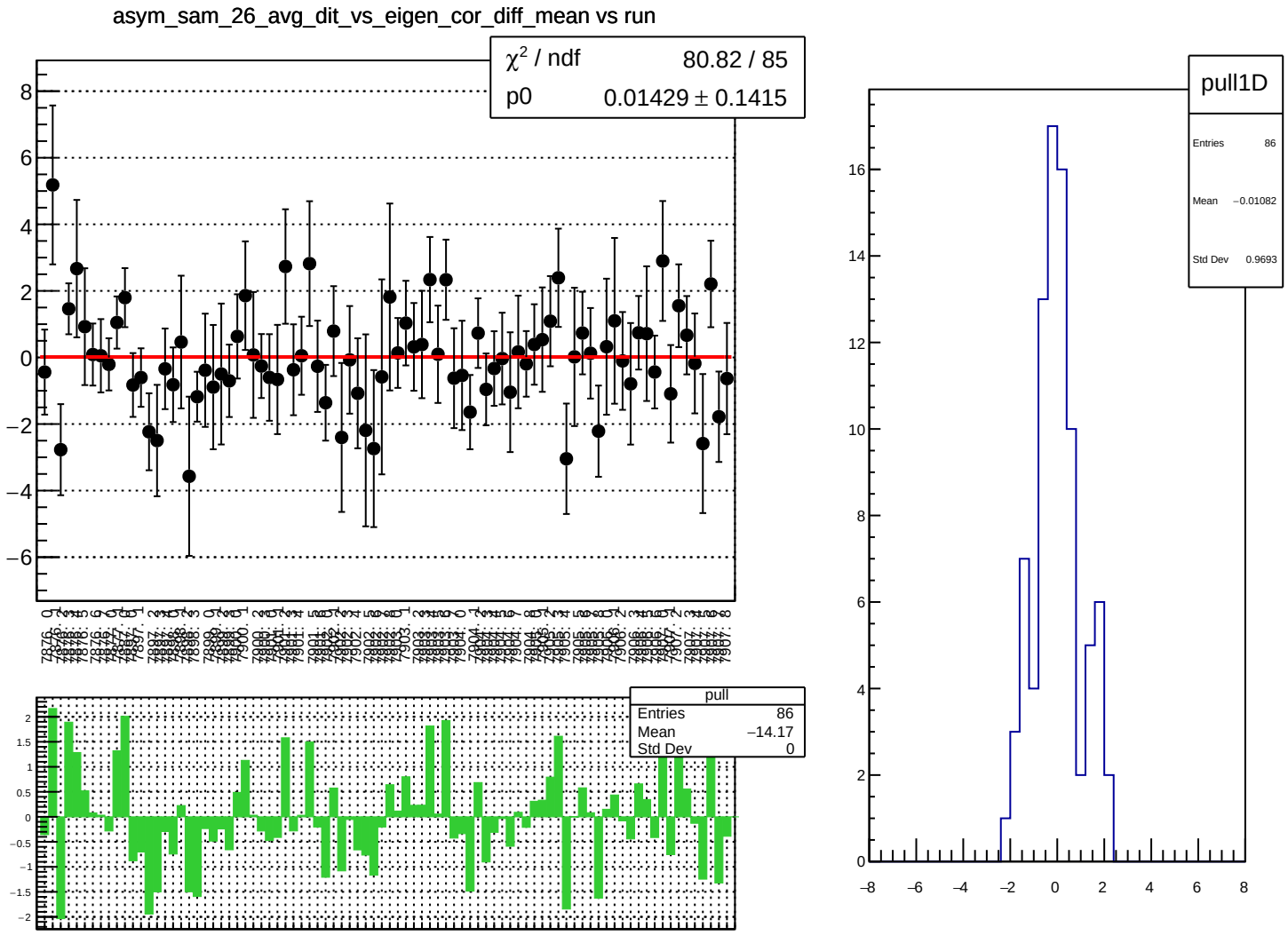

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.91 / 85
p0 2.659e−14 ± 2.759e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 86
Mean 47.13
Std Dev 14.2
3
2
1
0
−1
−2
−3

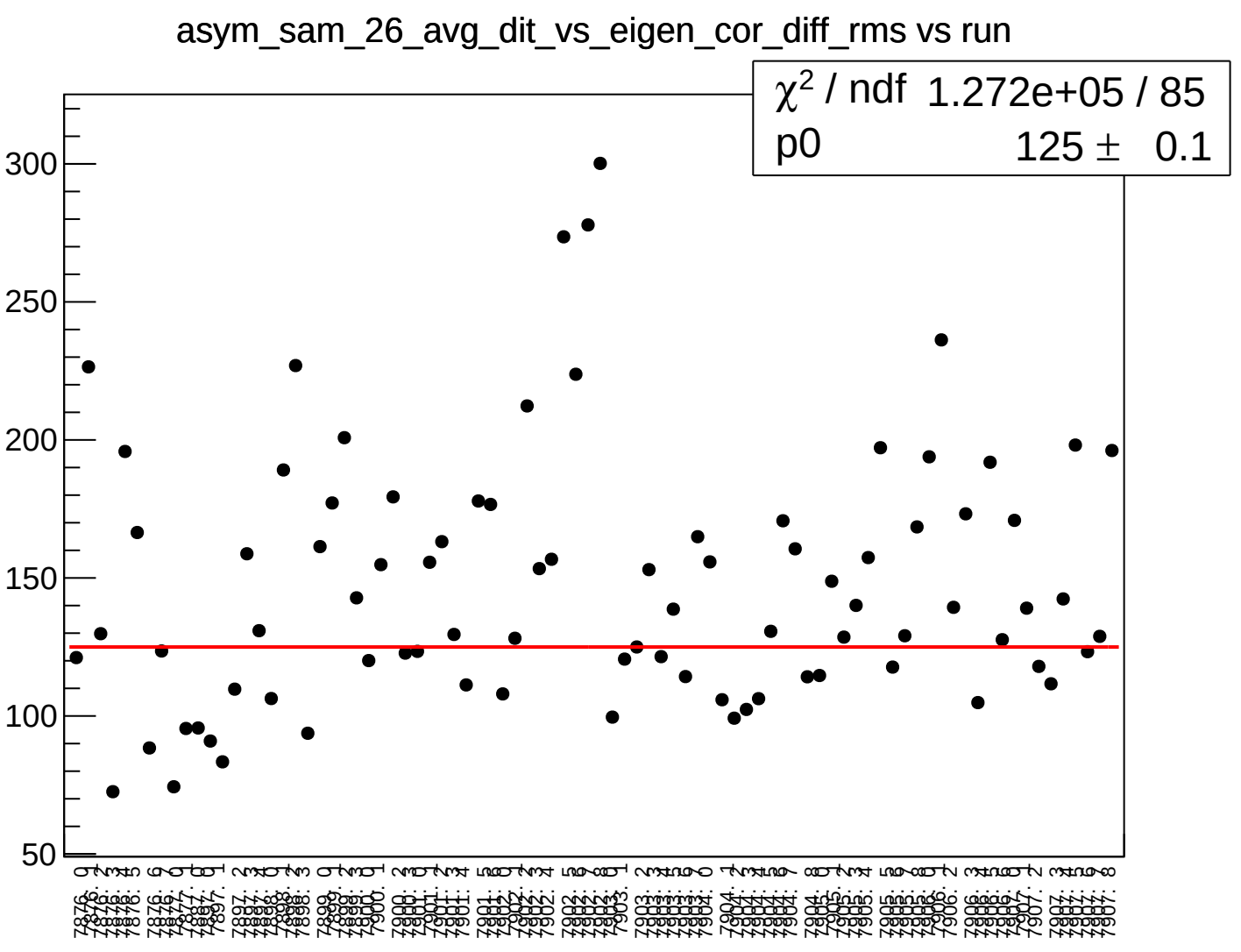

pull1D
Entries 86
Mean 0.2001
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

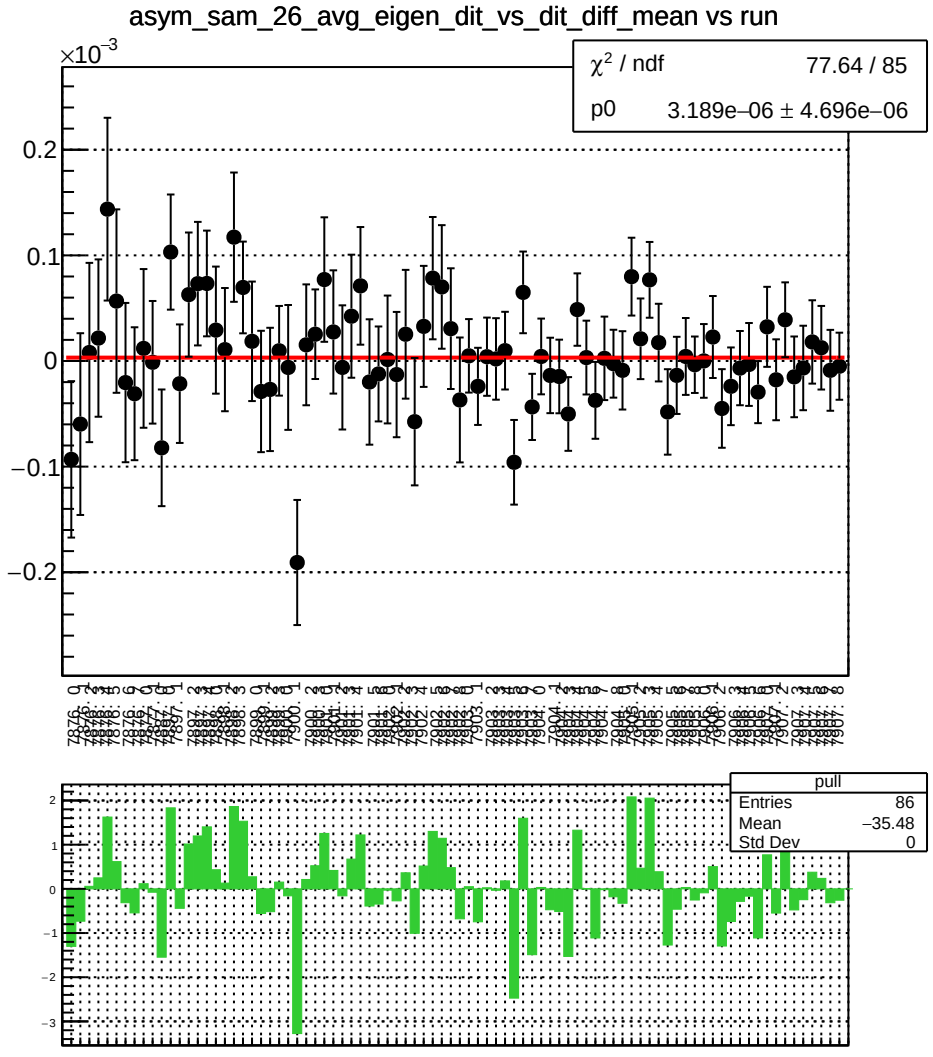

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.298e+06 / 85
p0 1.218e−10 ± 1.951e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

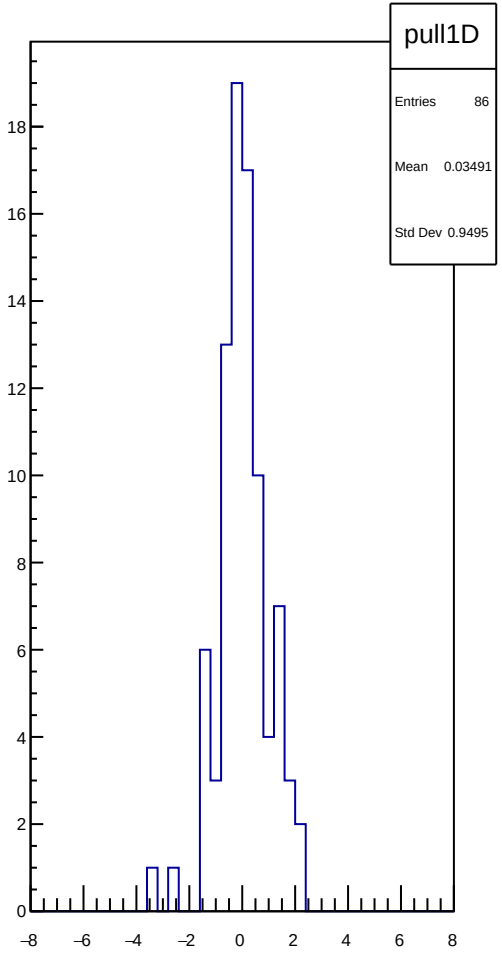

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.82 / 85
p0 0.01429 ± 0.1415
pull
Entries 86
Mean −14.17
Std Dev 0
pull1D
Entries 86
Mean −0.01082
Std Dev 0.9693

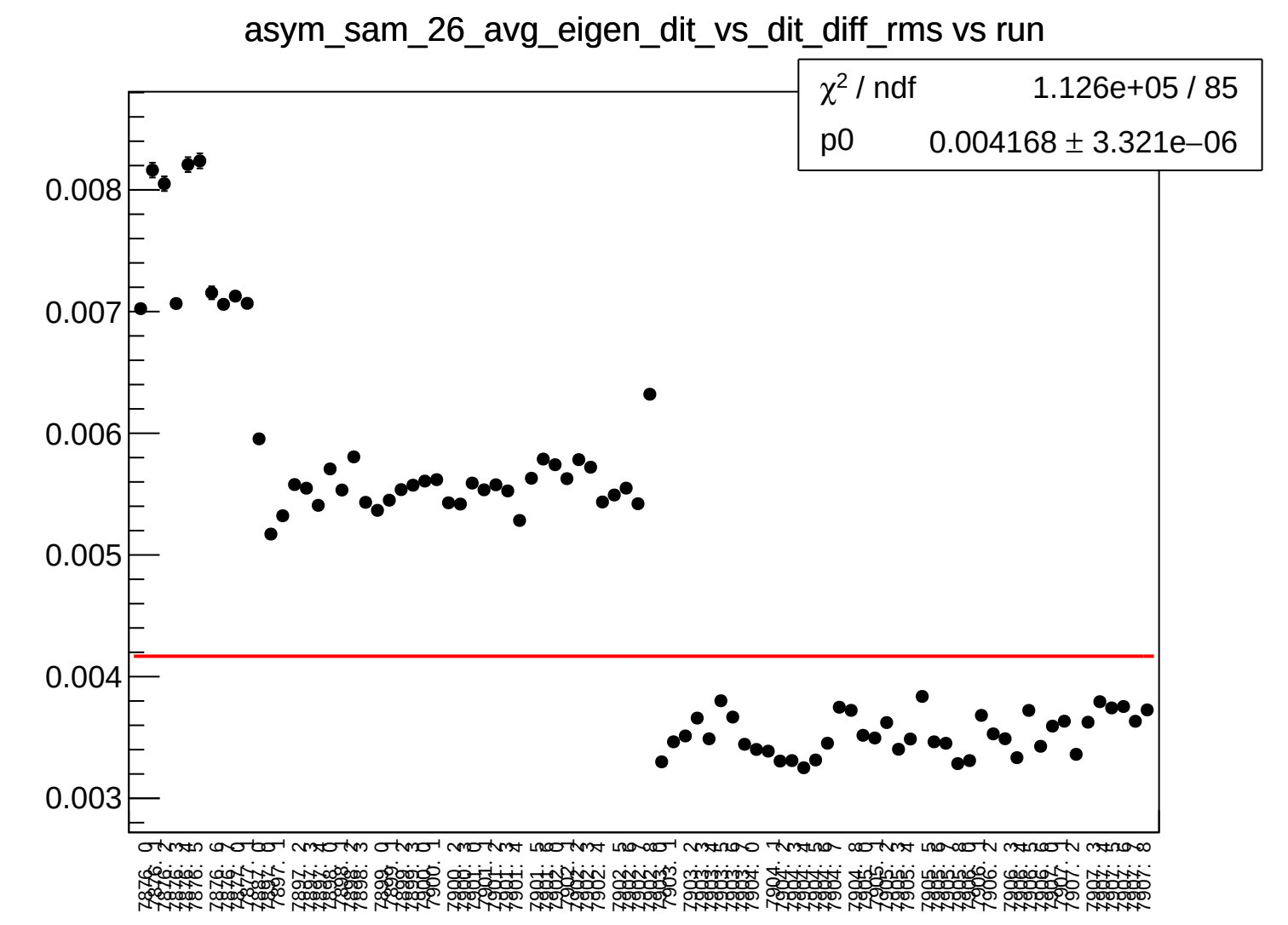

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.272e+05 / 85
p0 125 ± 0.1
300
250
200
150
100
50

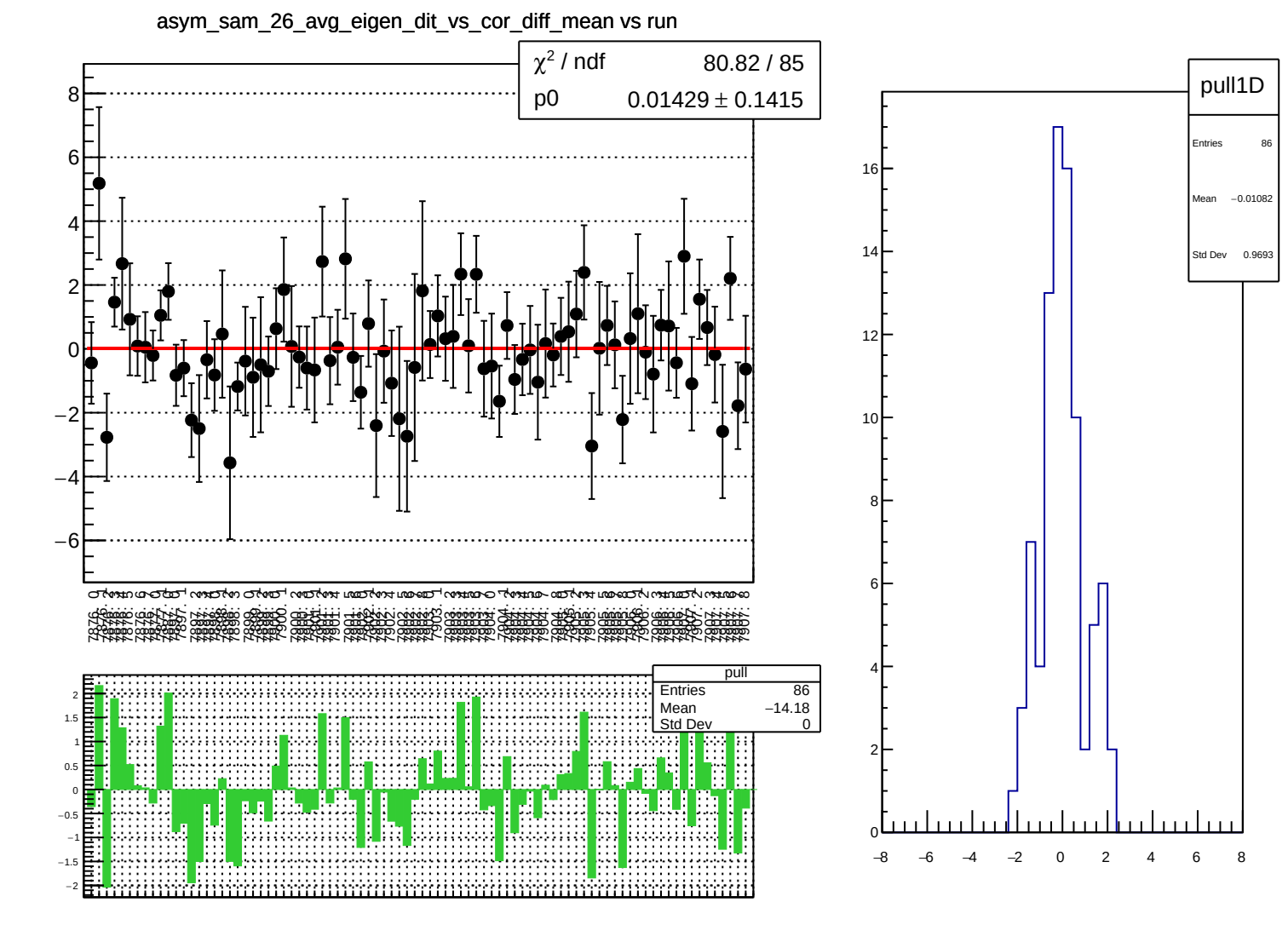

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.82 / 85
p0 0.01429 ± 0.1415
pull
Entries 86
Mean −14.17
Std Dev 0
pull1D
Entries 86
Mean −0.01082
Std Dev 0.9693

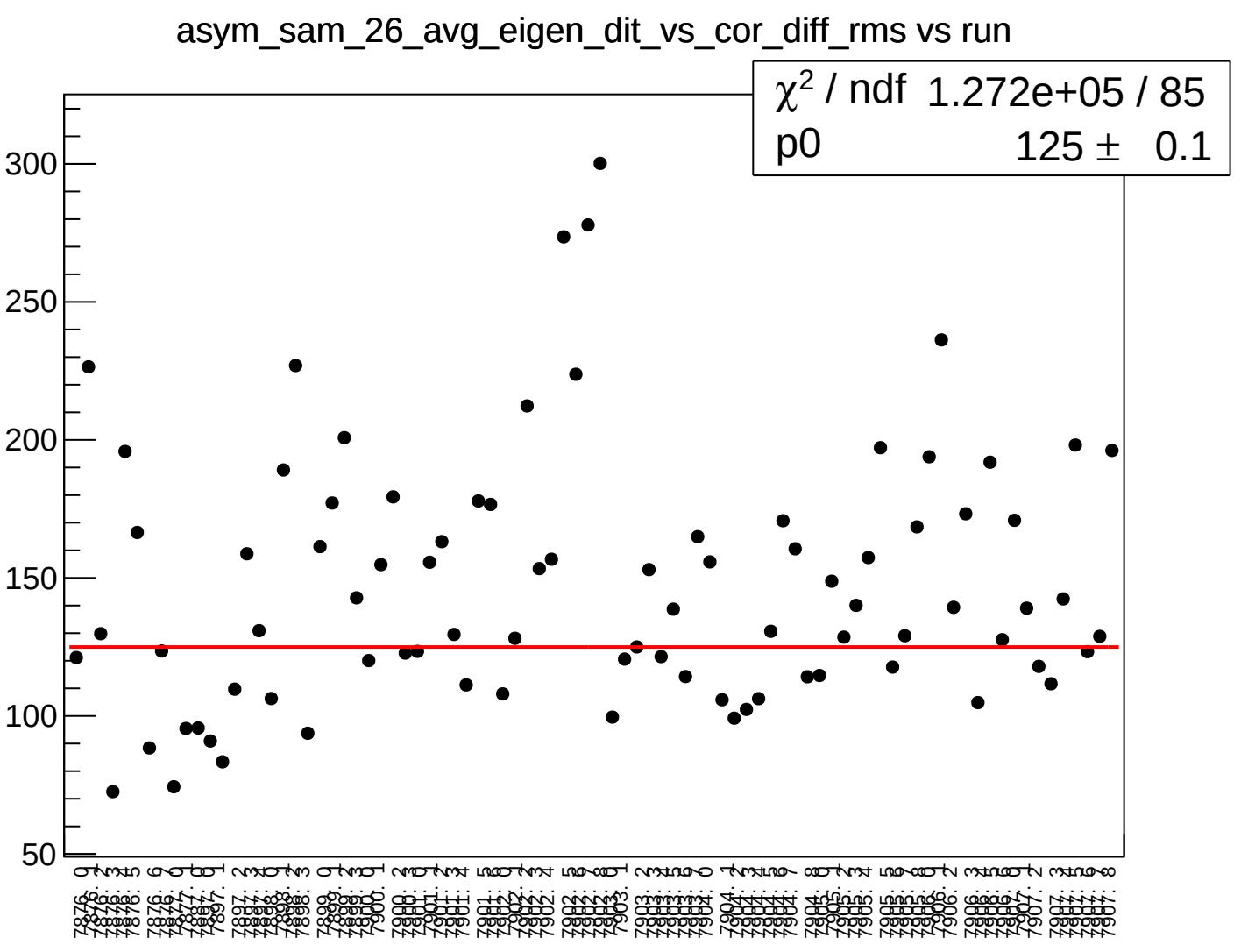

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.272e+05 / 85
p0 125 ± 0.1
300
250
200
150
100
50

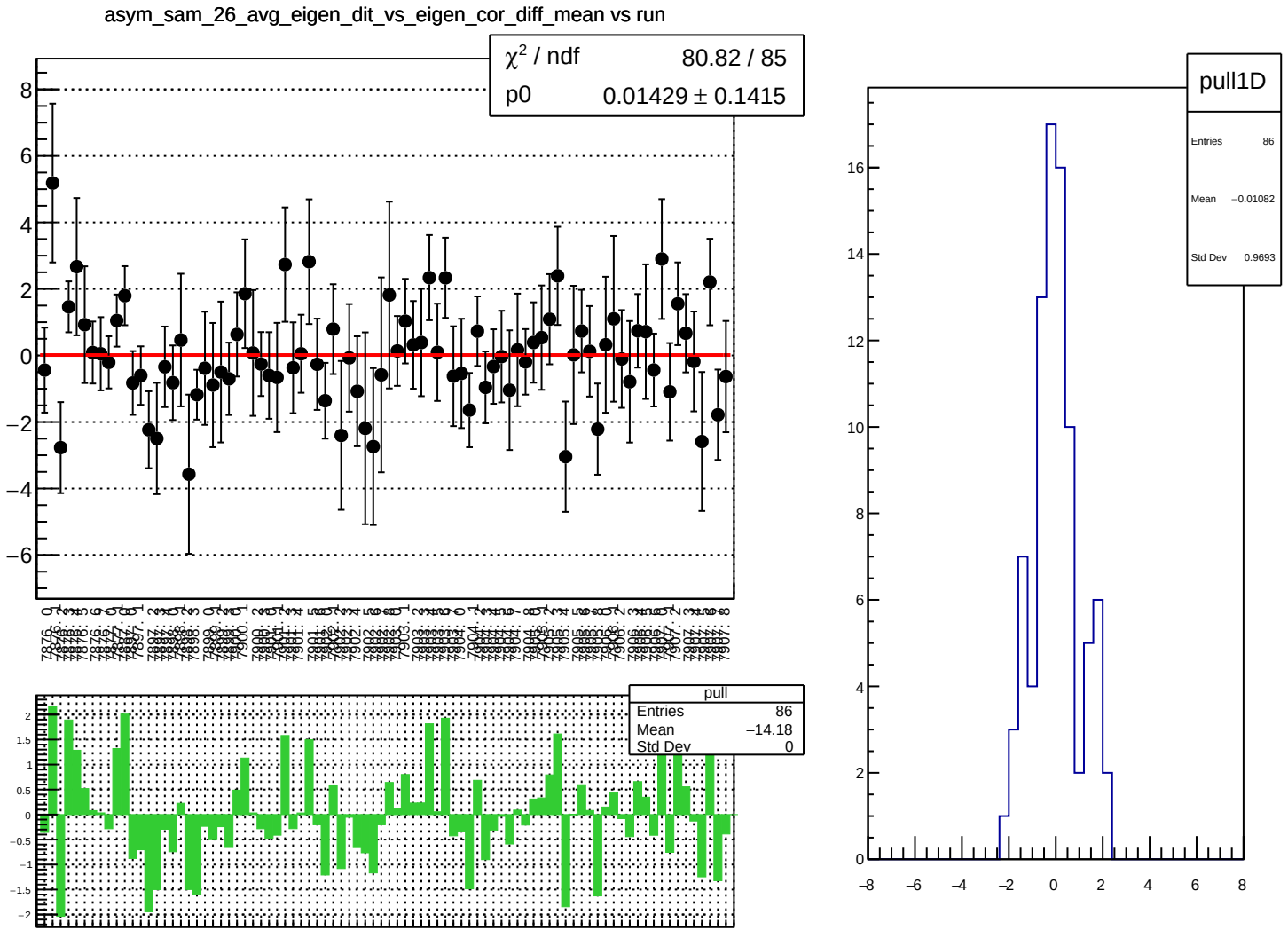

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.64 / 85
p0 3.189e−06 ± 4.696e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean −35.48
Std Dev 0

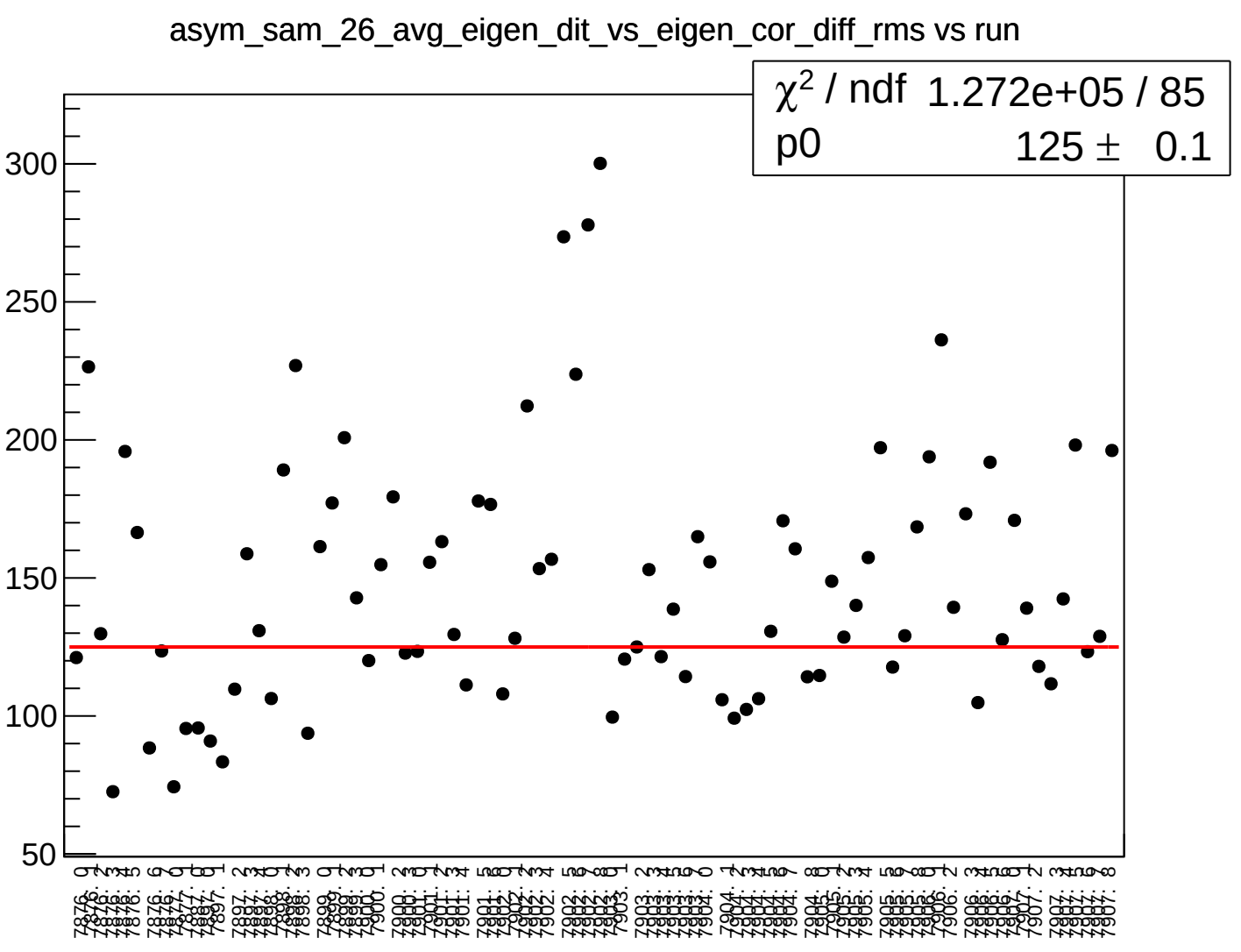

pull1D
Entries 86
Mean 0.03491
Std Dev 0.9495
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

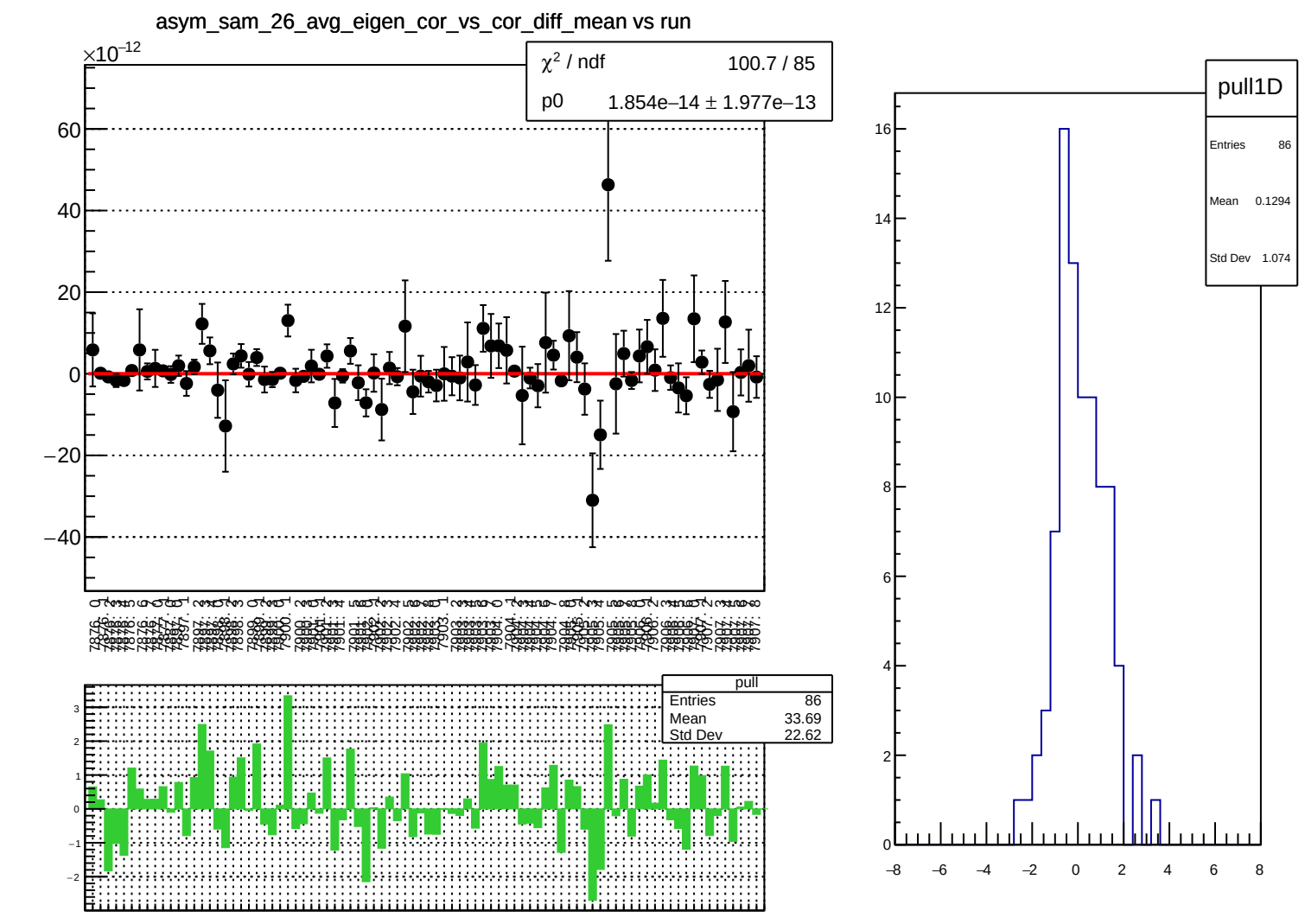

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.126e+05 / 85
p0 0.004168 ± 3.321e−06
0.008
0.007
0.006
0.005
0.004
0.003

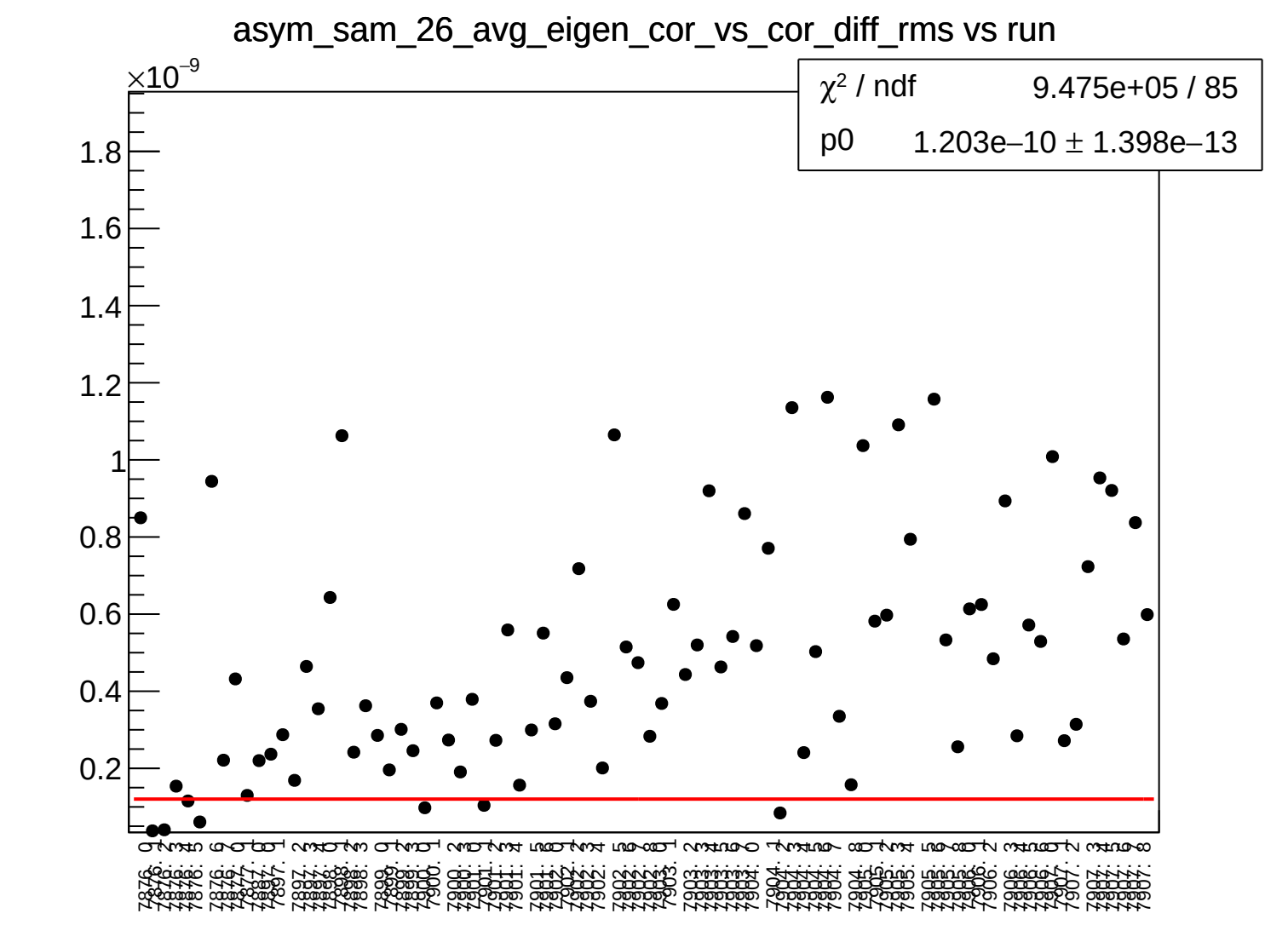

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.82 / 85
p0 0.01429 ± 0.1415
pull
Entries 86
Mean −14.18
Std Dev 0
pull1D
Entries 86
Mean −0.01082
Std Dev 0.9693

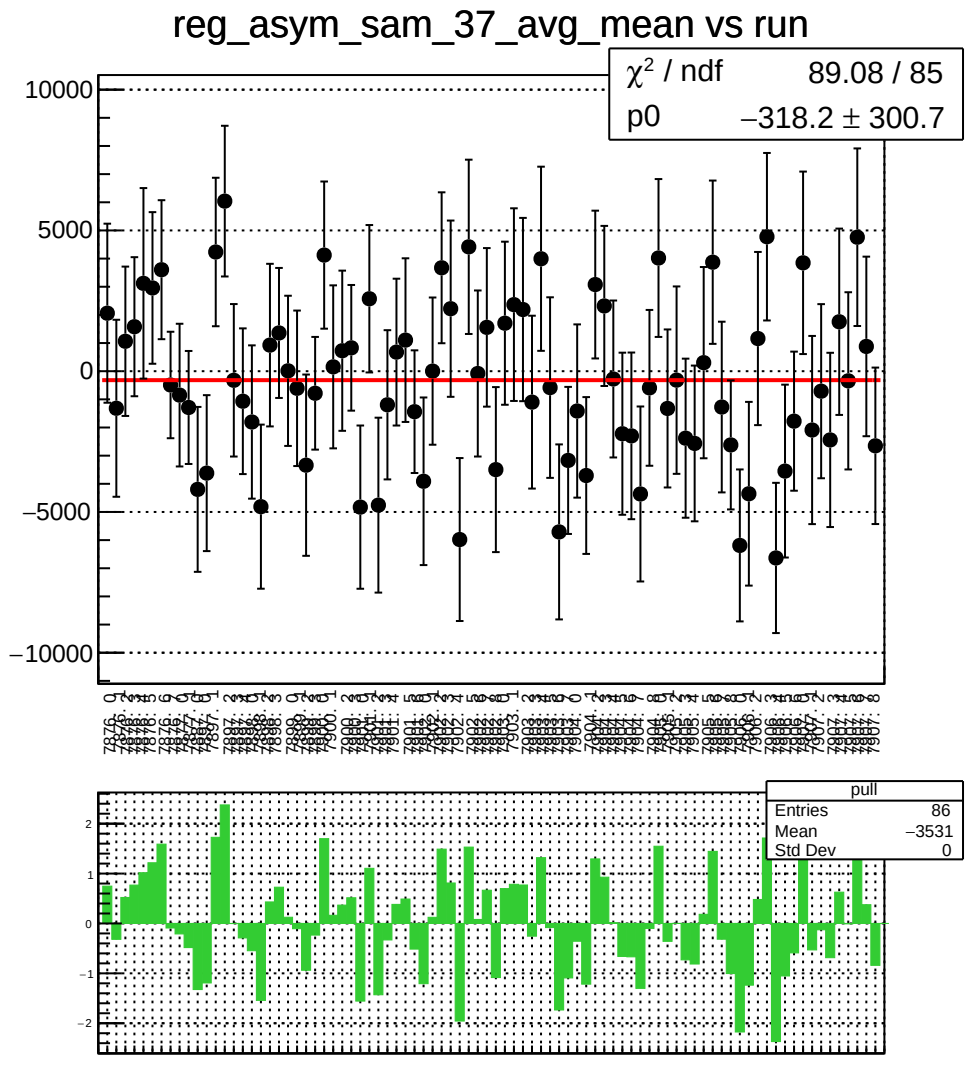

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.272e+05 / 85
p0 125 ± 0.1
300
250
200
150
100
50

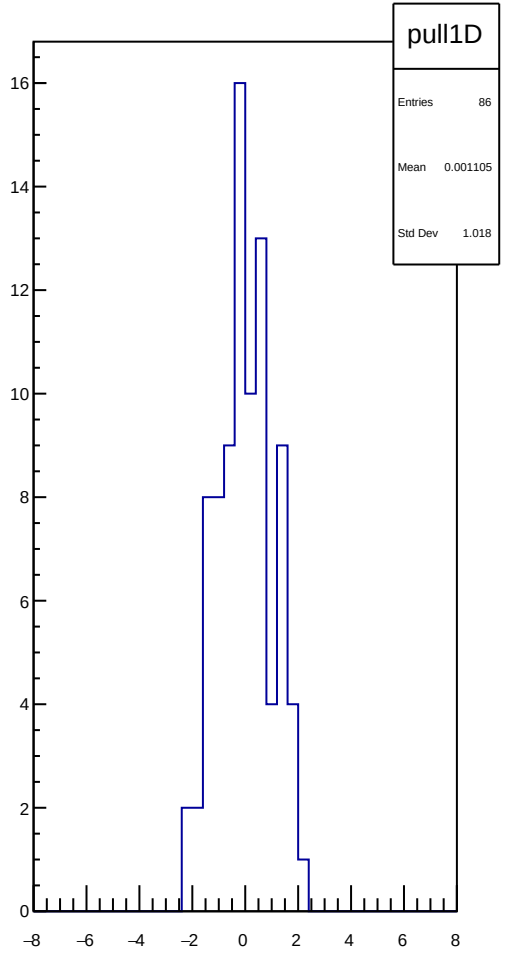

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.82 / 85
p0 0.01429 ± 0.1415
pull
Entries 86
Mean −14.18
Std Dev 0
pull1D
Entries 86
Mean −0.01082
Std Dev 0.9693

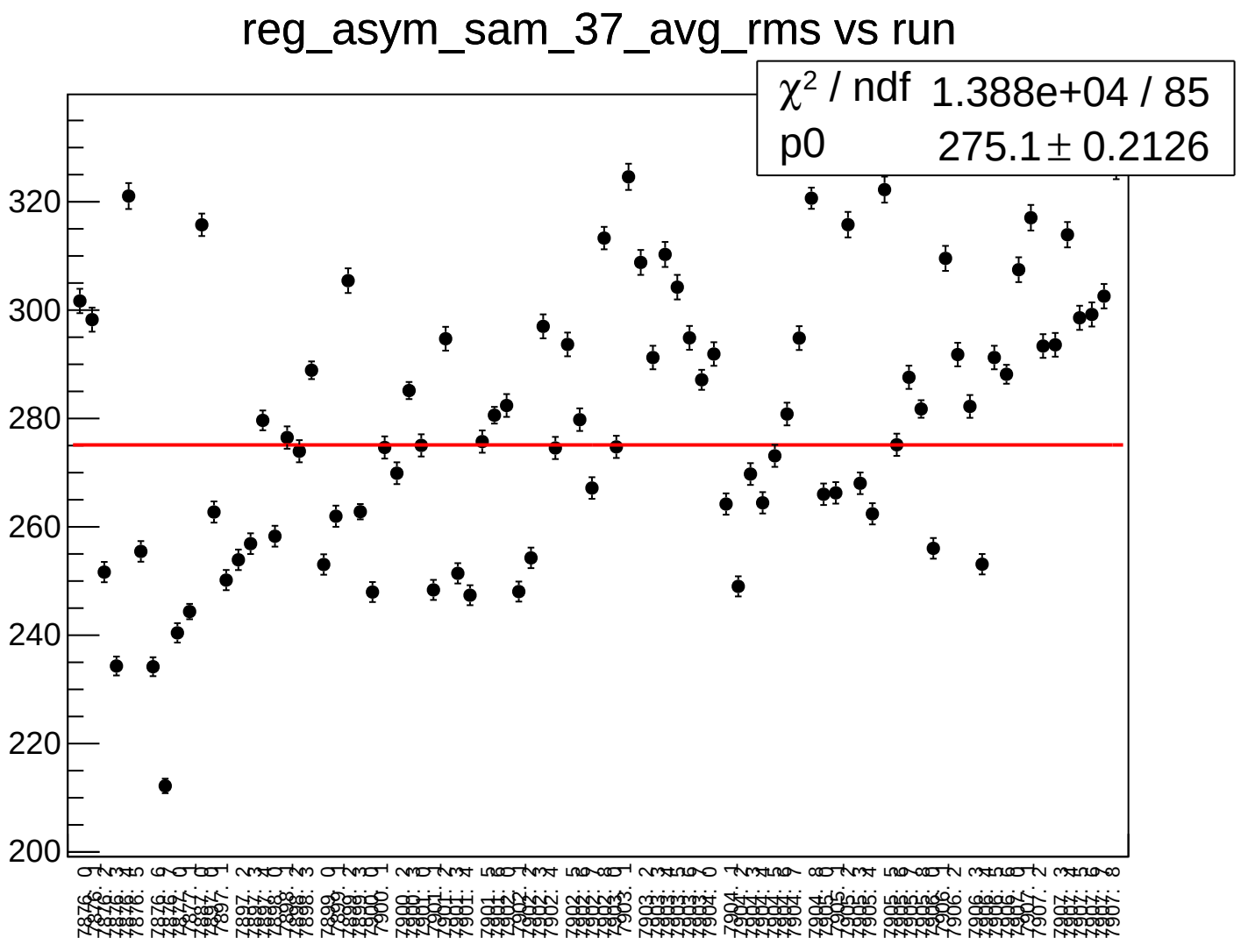

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.272e+05 / 85
p0 125 ± 0.1
300
250
200
150
100
50

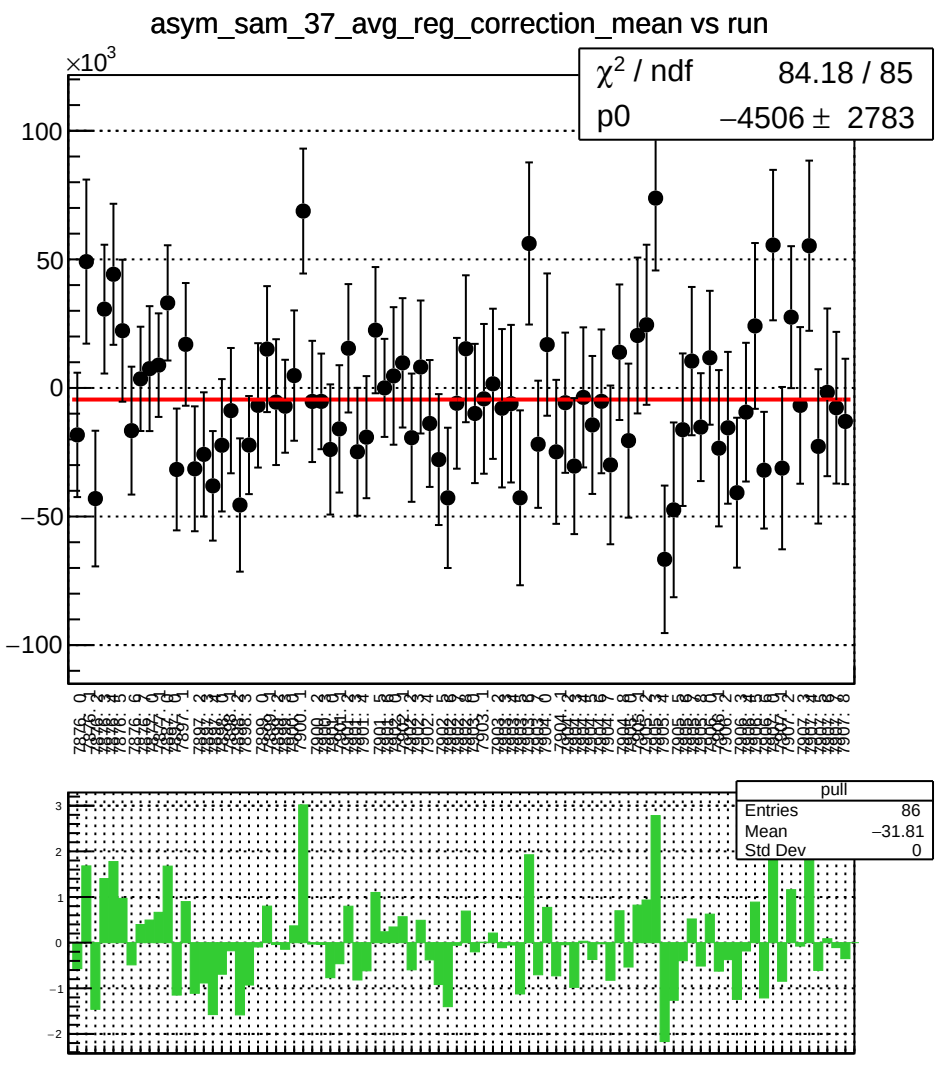

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.7 / 85
p0 1.854e−14 ± 1.977e−13
60
40
20
0
−20
−40
pull
Entries 86
Mean 33.69
Std Dev 22.62
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.1294
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

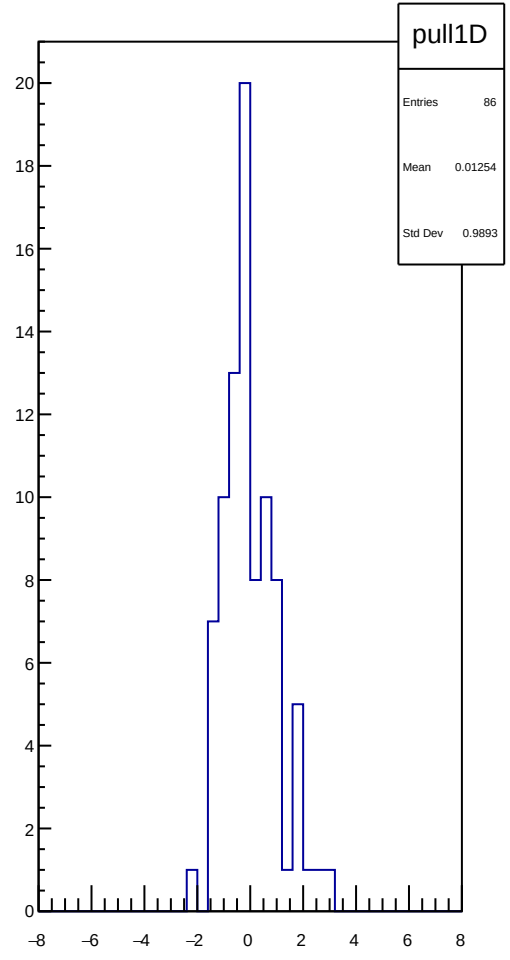

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.475e+05 / 85
p0 1.203e−10 ± 1.398e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

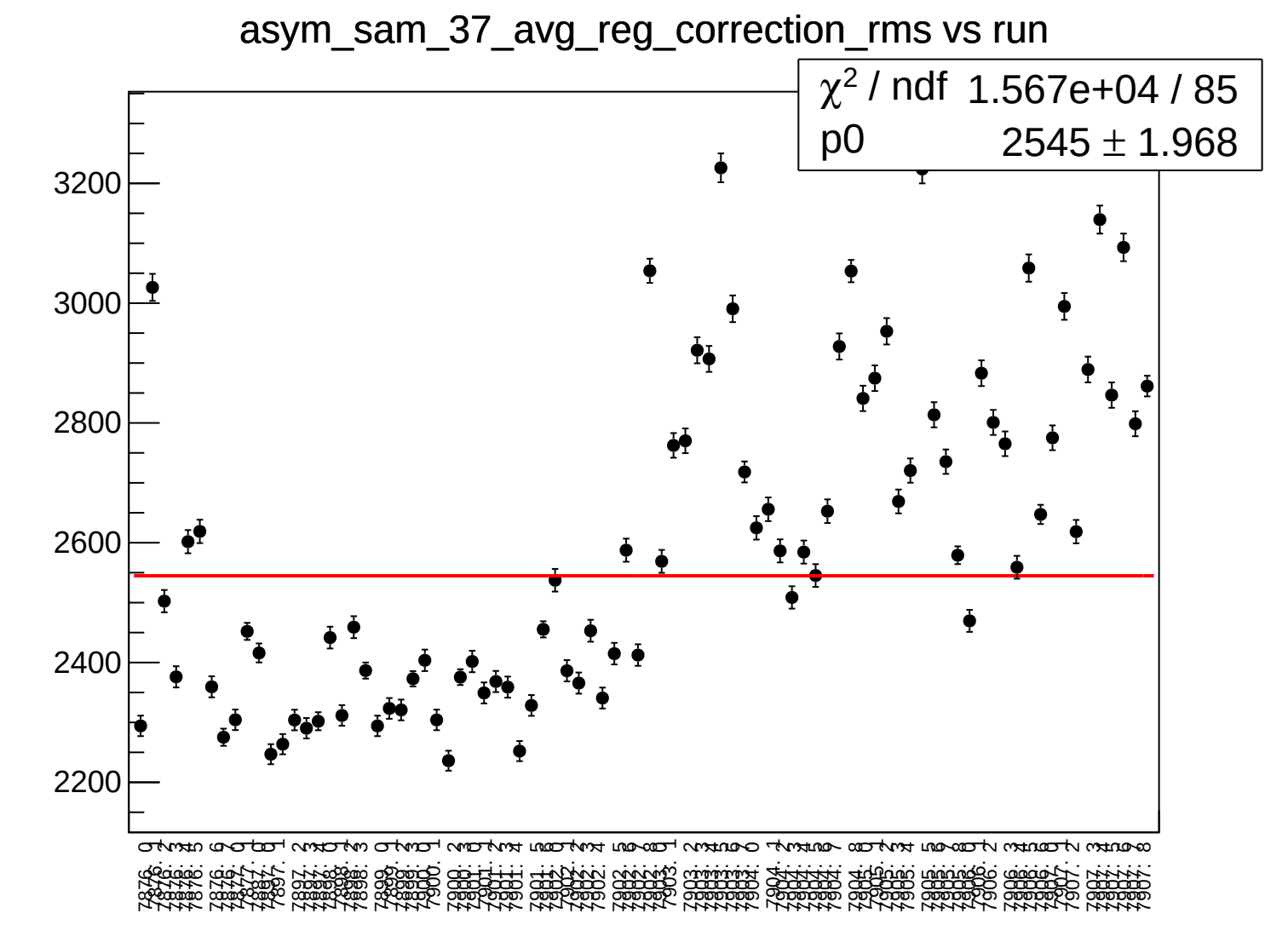

reg_asym_sam_37_avg_mean vs run
χ² / ndf 89.08 / 85
p0 −318.2 ± 300.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −3531
Std Dev 0
2
1
0
−1
−2

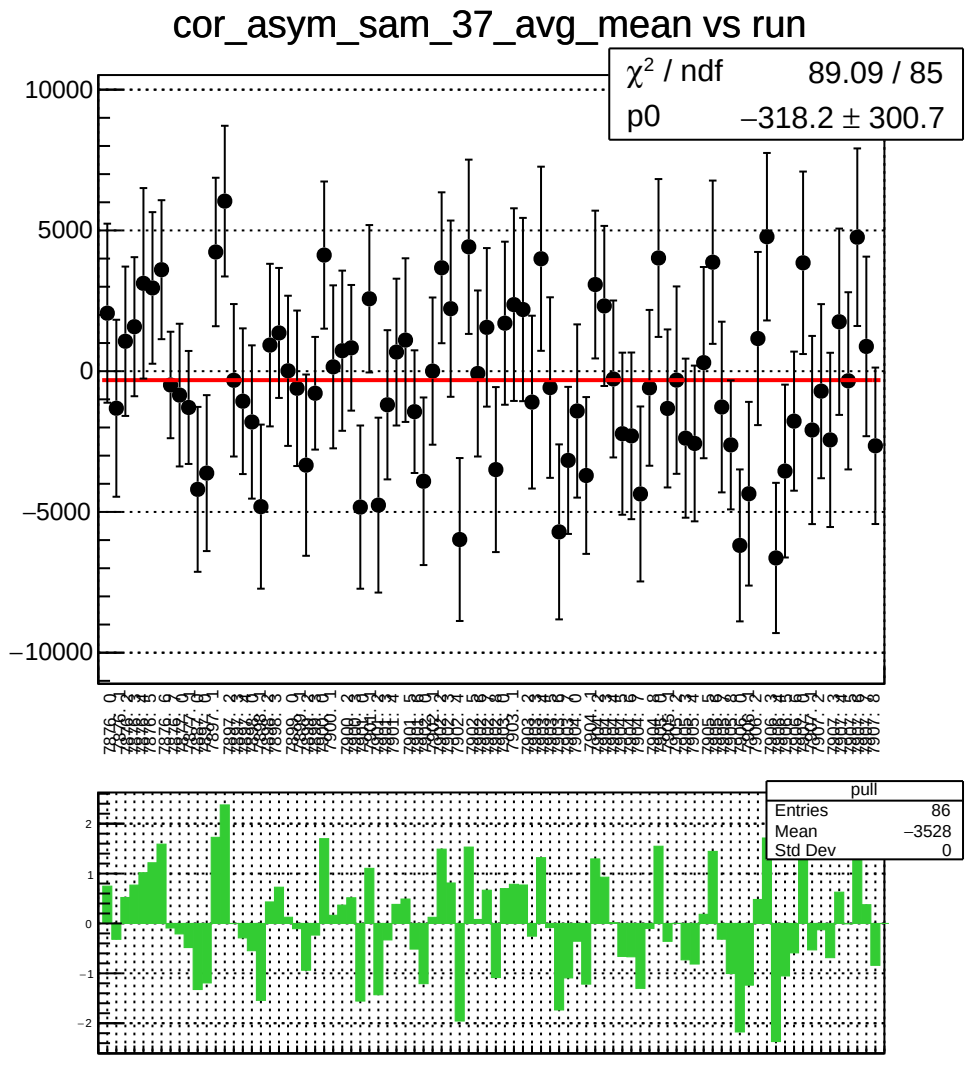

pull1D
Entries 86
Mean 0.001105
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

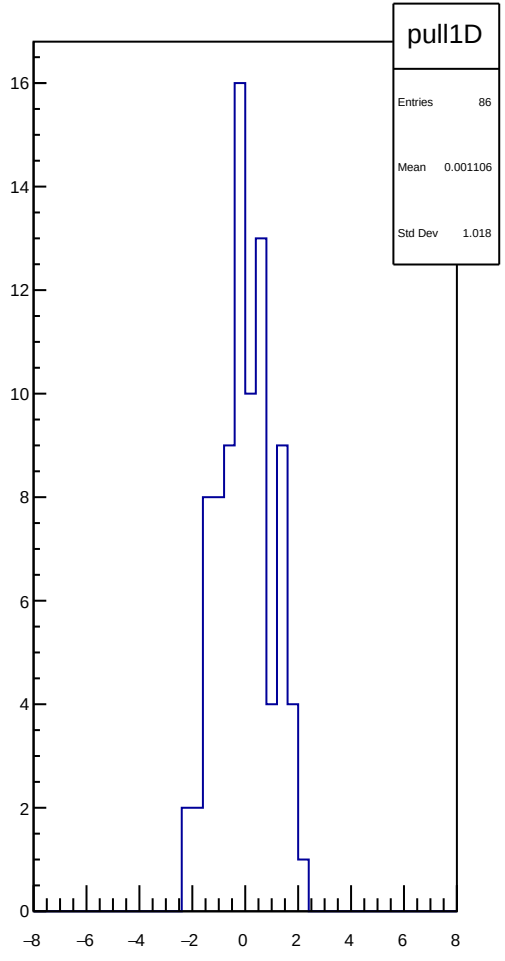

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.388e+04 / 85
p0 275.1 ± 0.2126
320
300
280
260
240
220
200

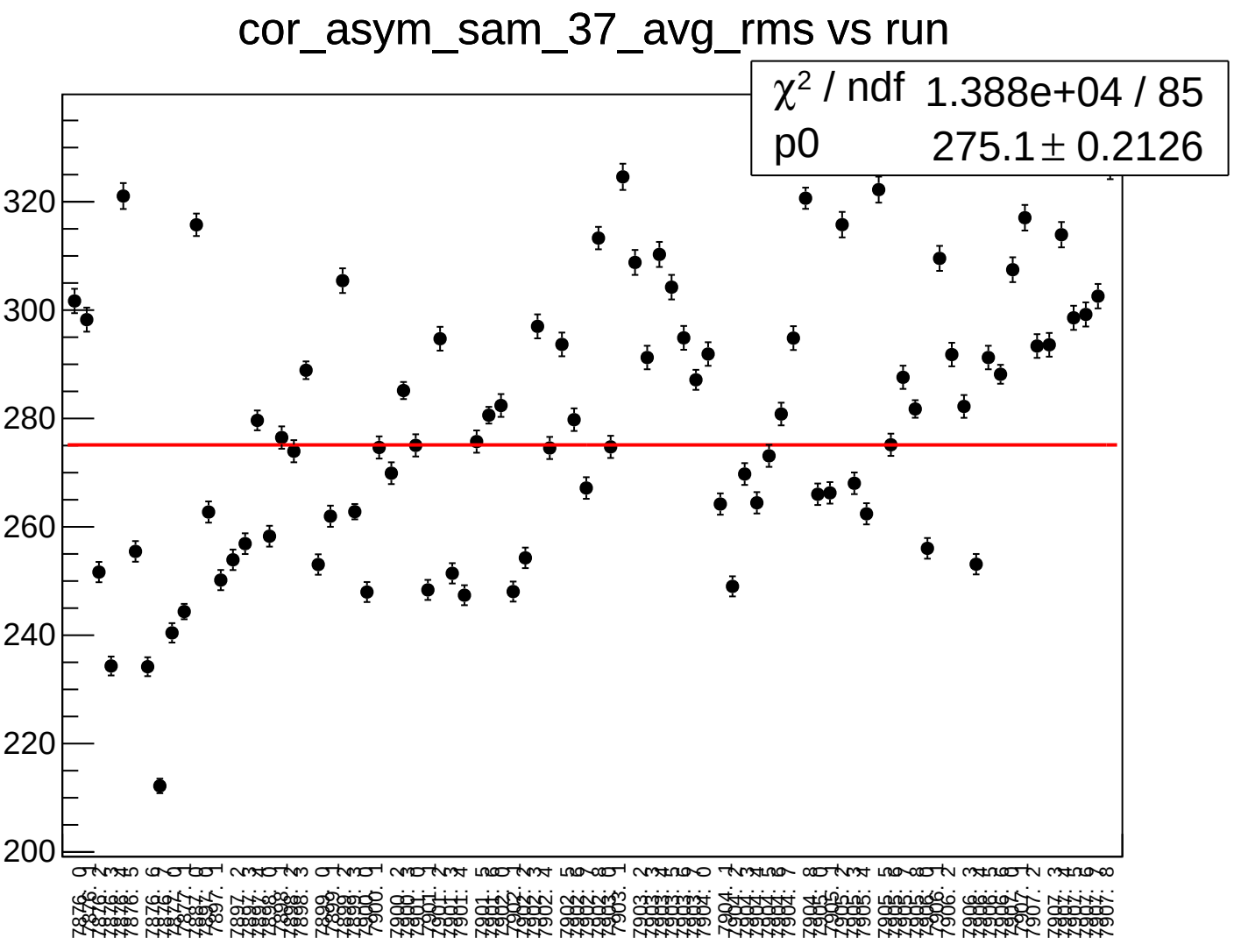

asym_sam_37_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 84.18 / 85
p0 −4506 ± 2783
100
50
0
−50
−100
pull
Entries 86
Mean −31.81
Std Dev 0
3
2
1
0
−1
−2

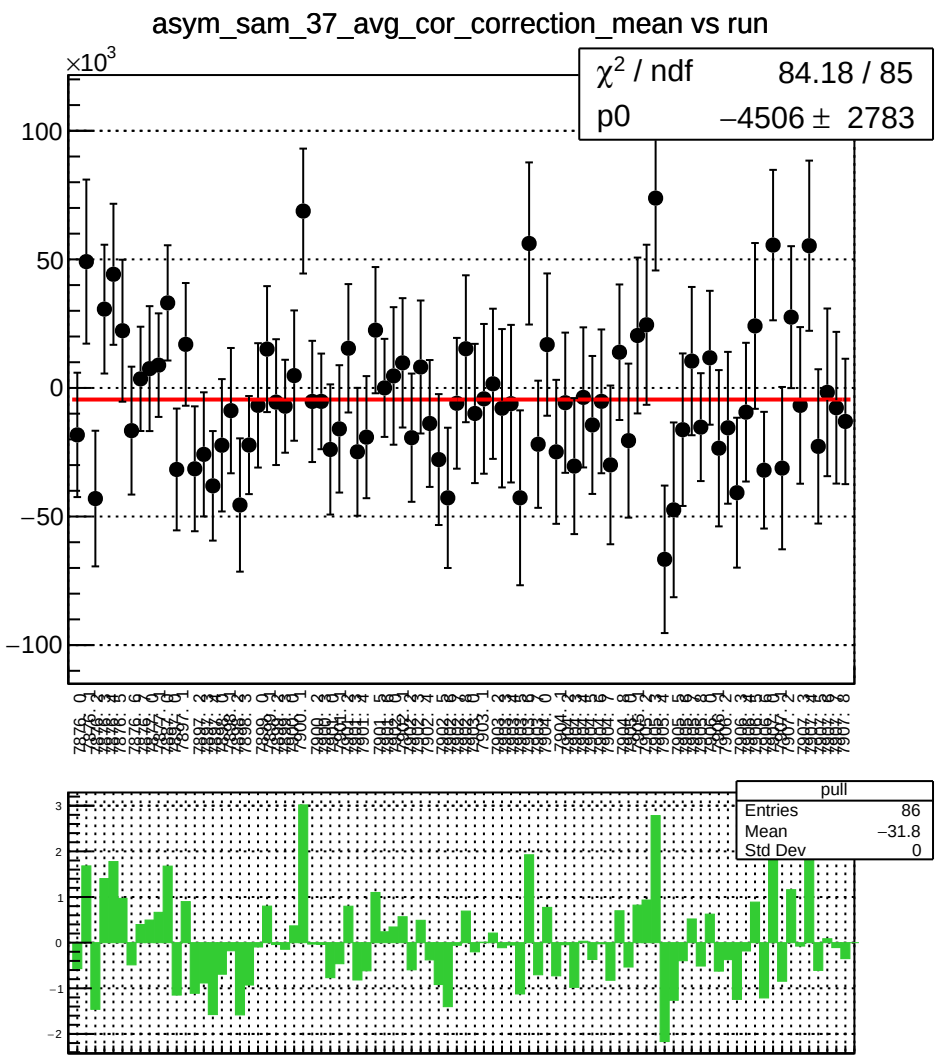

pull1D
Entries 86
Mean 0.01254
Std Dev 0.9893
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

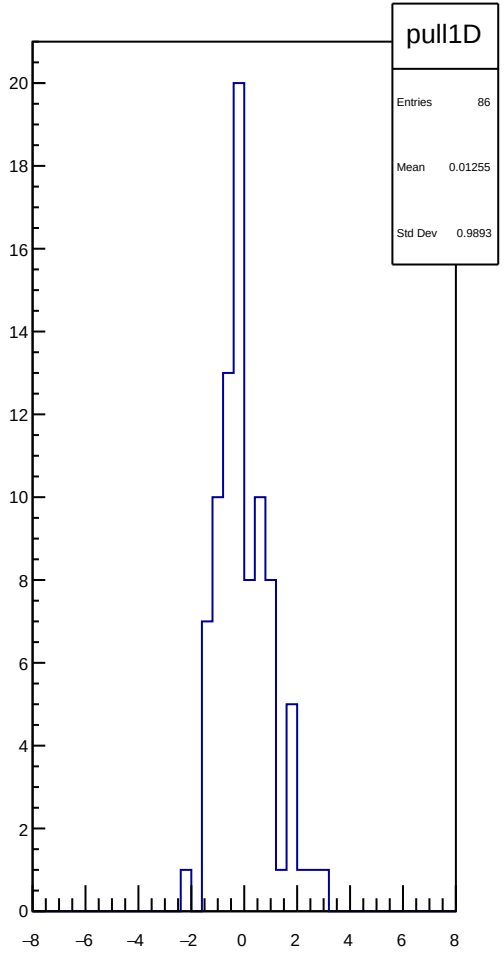

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.567e+04 / 85
p0 2545 ± 1.968
3200
3000
2800
2600
2400
2200

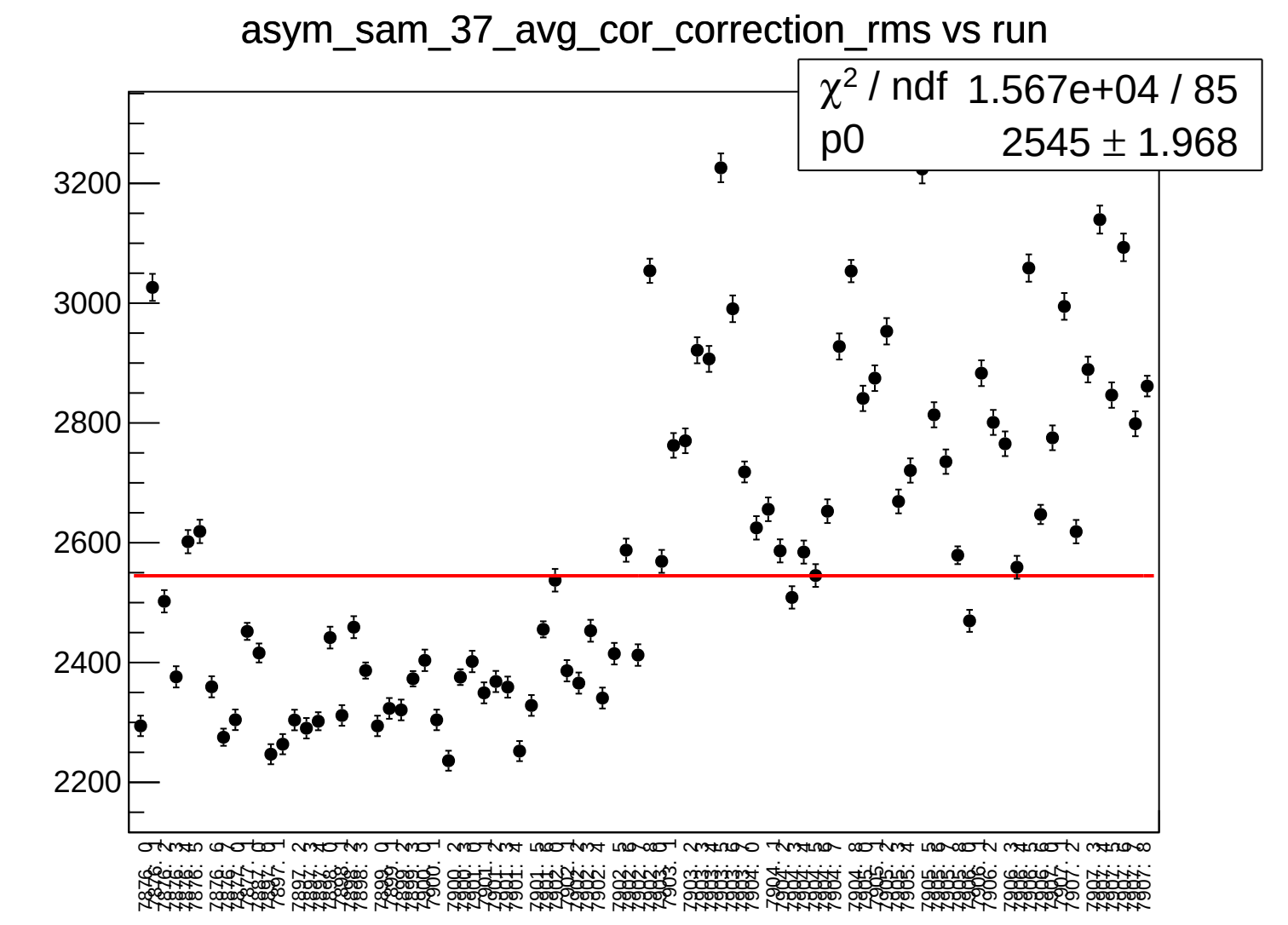

cor_asym_sam_37_avg_mean vs run
χ² / ndf 89.09 / 85
p0 −318.2 ± 300.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −3528
Std Dev 0
2
1
0
−1
−2

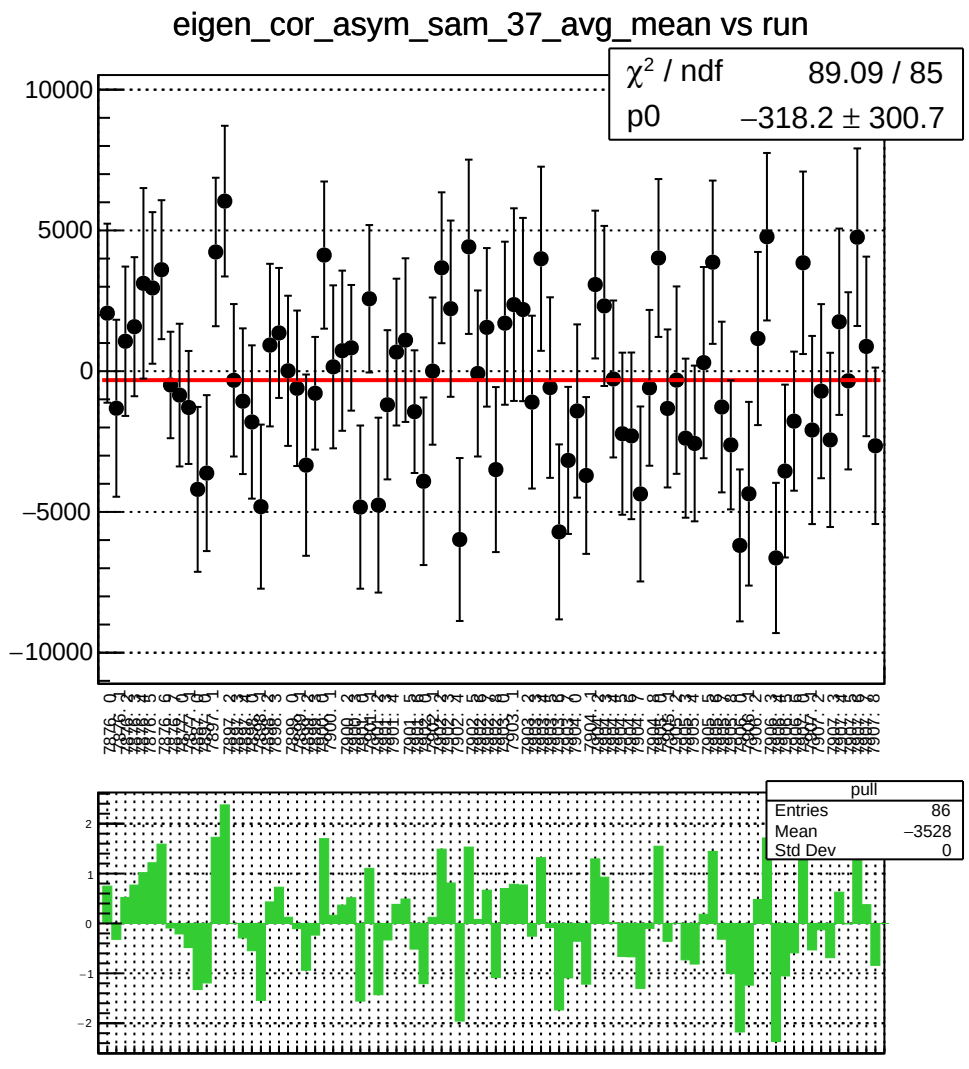

pull1D
Entries 86
Mean 0.001106
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

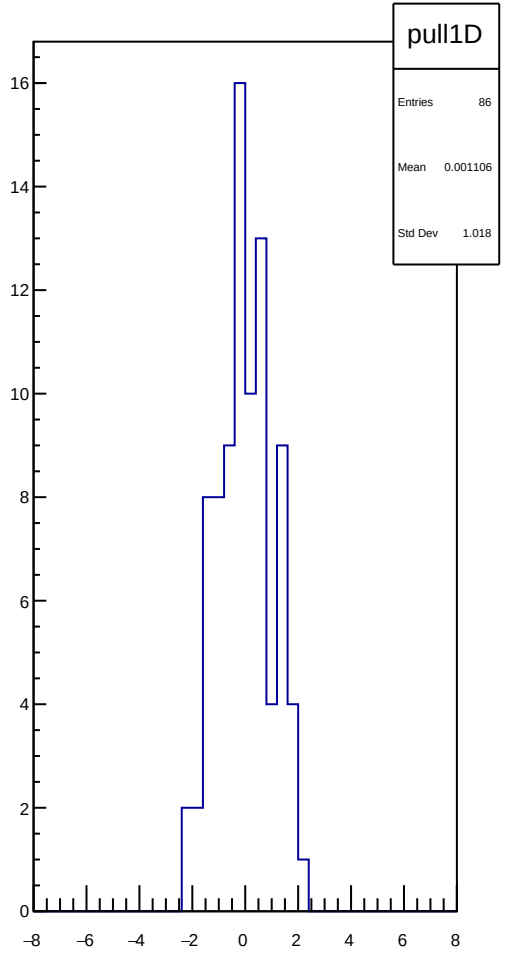

cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.388e+04 / 85
p0 275.1 ± 0.2126
320
300
280
260
240
220
200

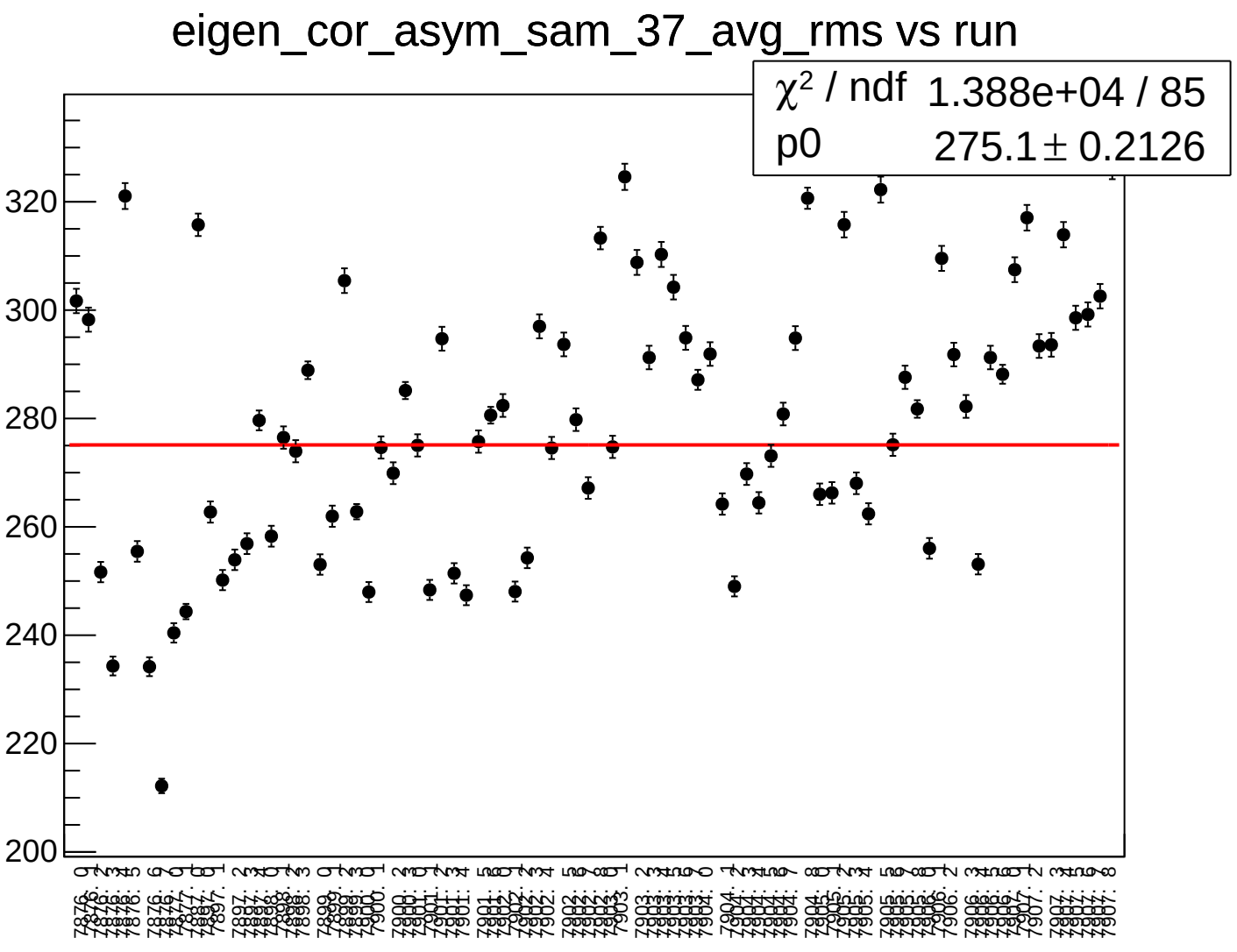

asym_sam_37_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.18 / 85
p0 −4506 ± 2783
100
50
0
−50
−100
pull
Entries 86
Mean −31.8
Std Dev 0
3
2
1
0
−1
−2

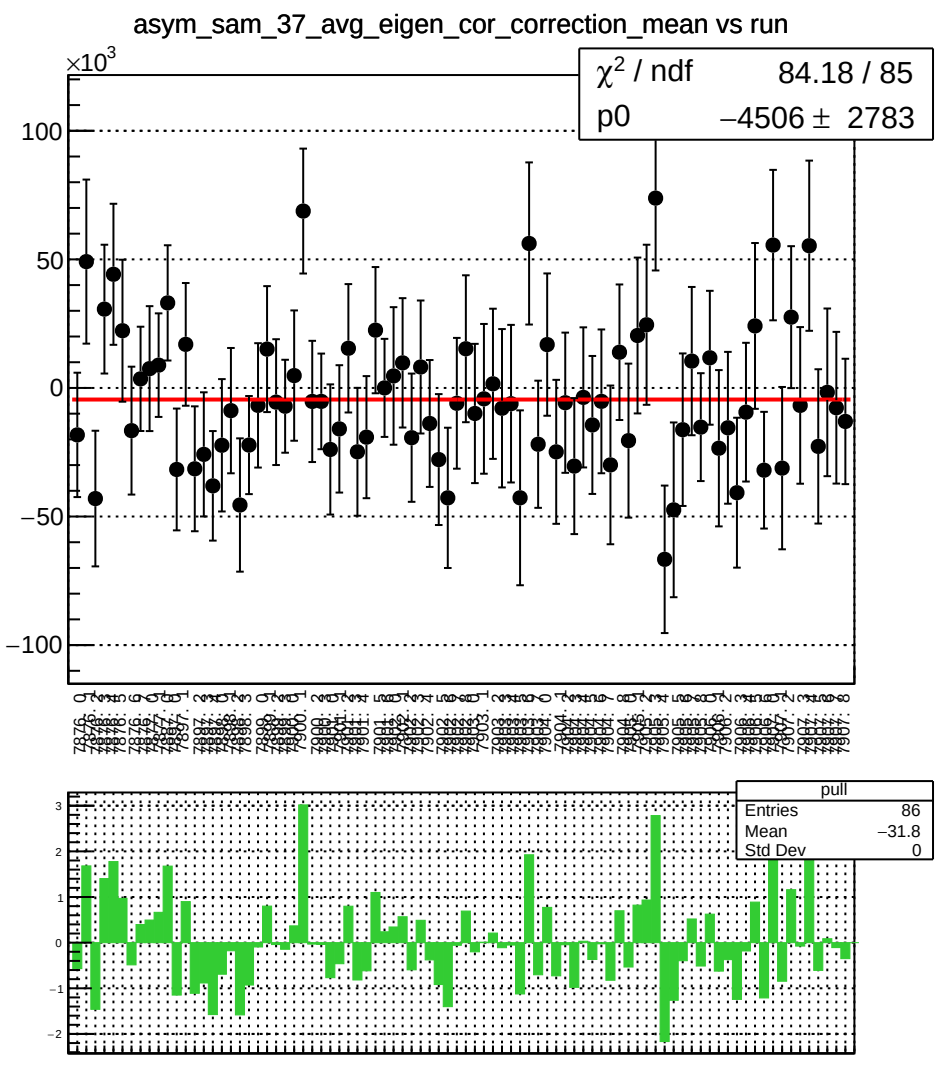

pull1D
Entries 86
Mean 0.01255
Std Dev 0.9893
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

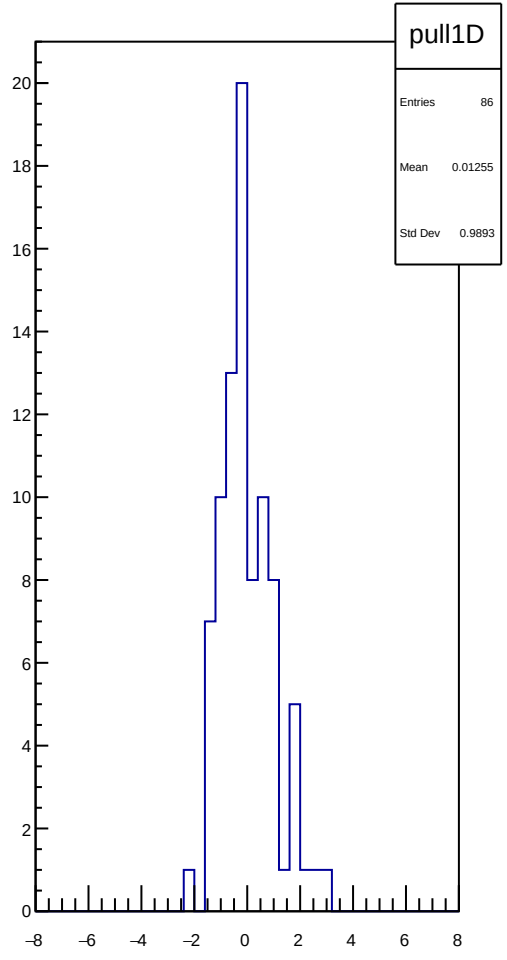

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.567e+04 / 85
p0 2545 ± 1.968
3200
3000
2800
2600
2400
2200

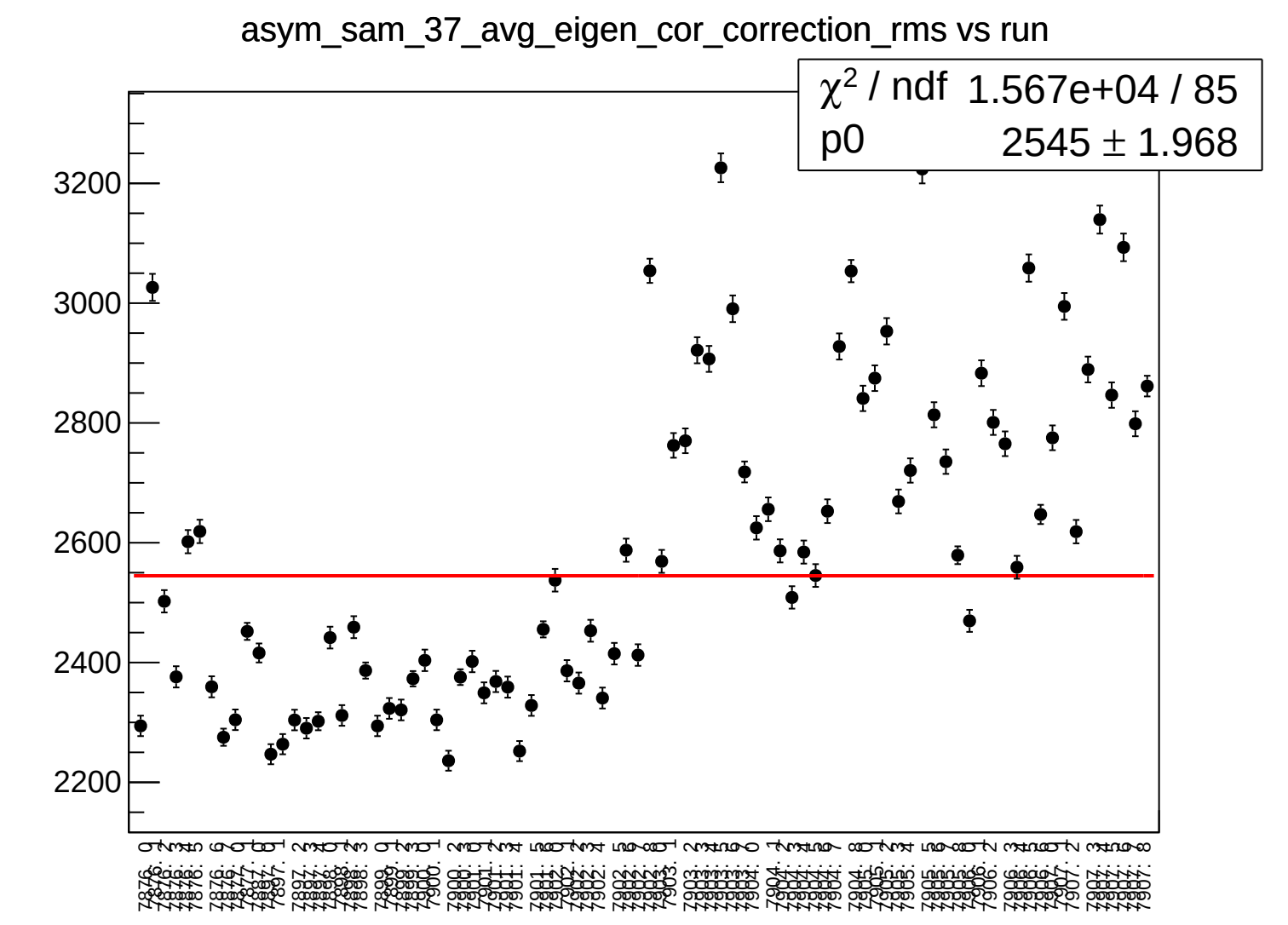

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 89.09 / 85
p0 −318.2 ± 300.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −3528
Std Dev 0
2
1
0
−1
−2

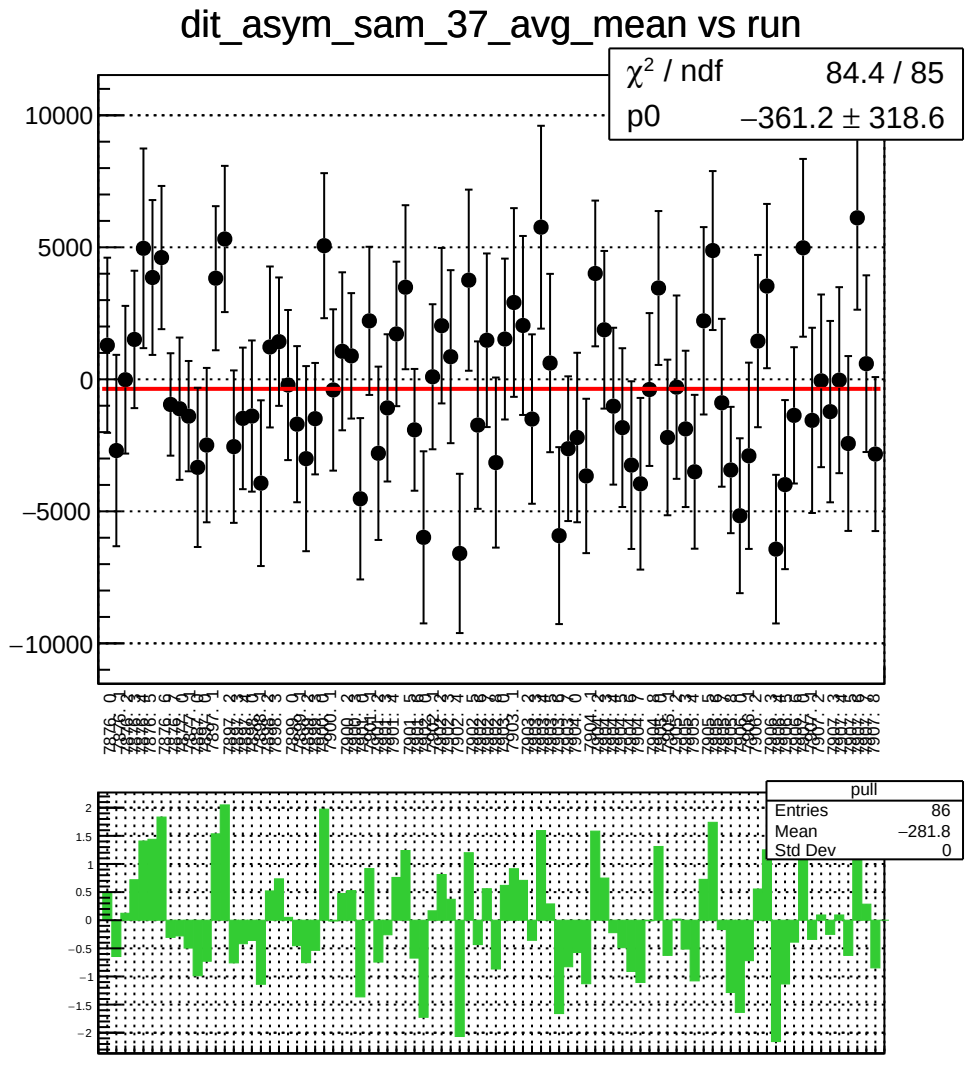

pull1D
Entries 86
Mean 0.001106
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

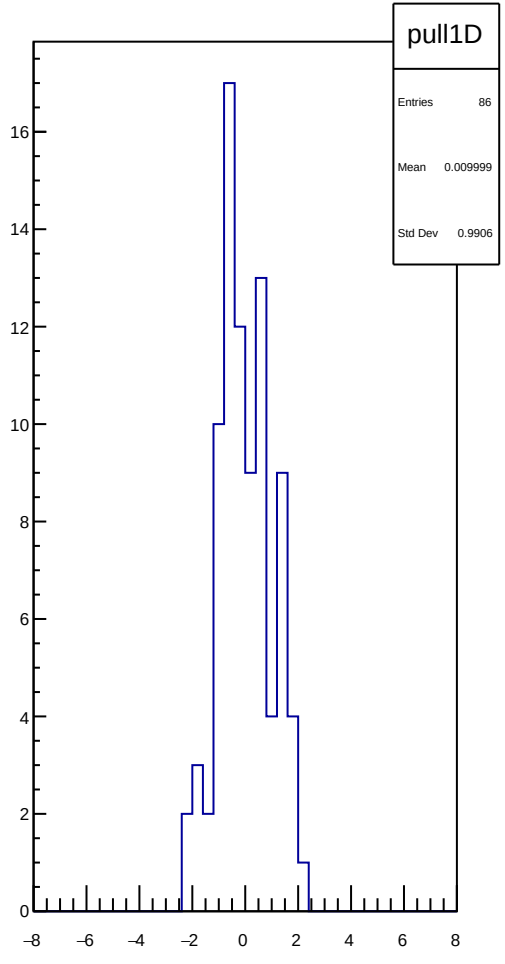

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.388e+04 / 85
p0 275.1 ± 0.2126
320
300
280
260
240
220
200

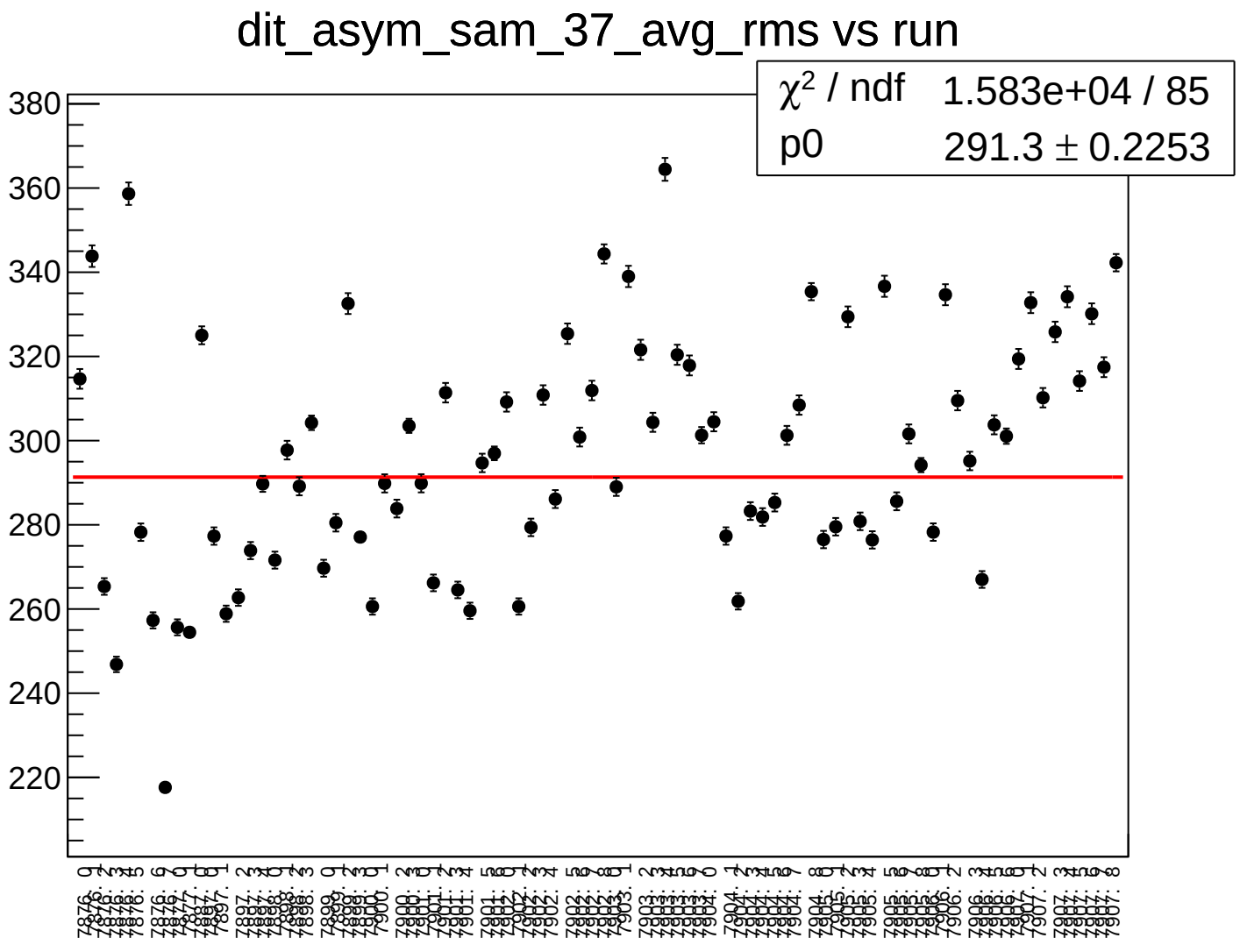

asym_sam_37_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.18 / 85
p0 −4506 ± 2783
100
50
0
−50
−100
pull
Entries 86
Mean −31.8
Std Dev 0
3
2
1
0
−1
−2

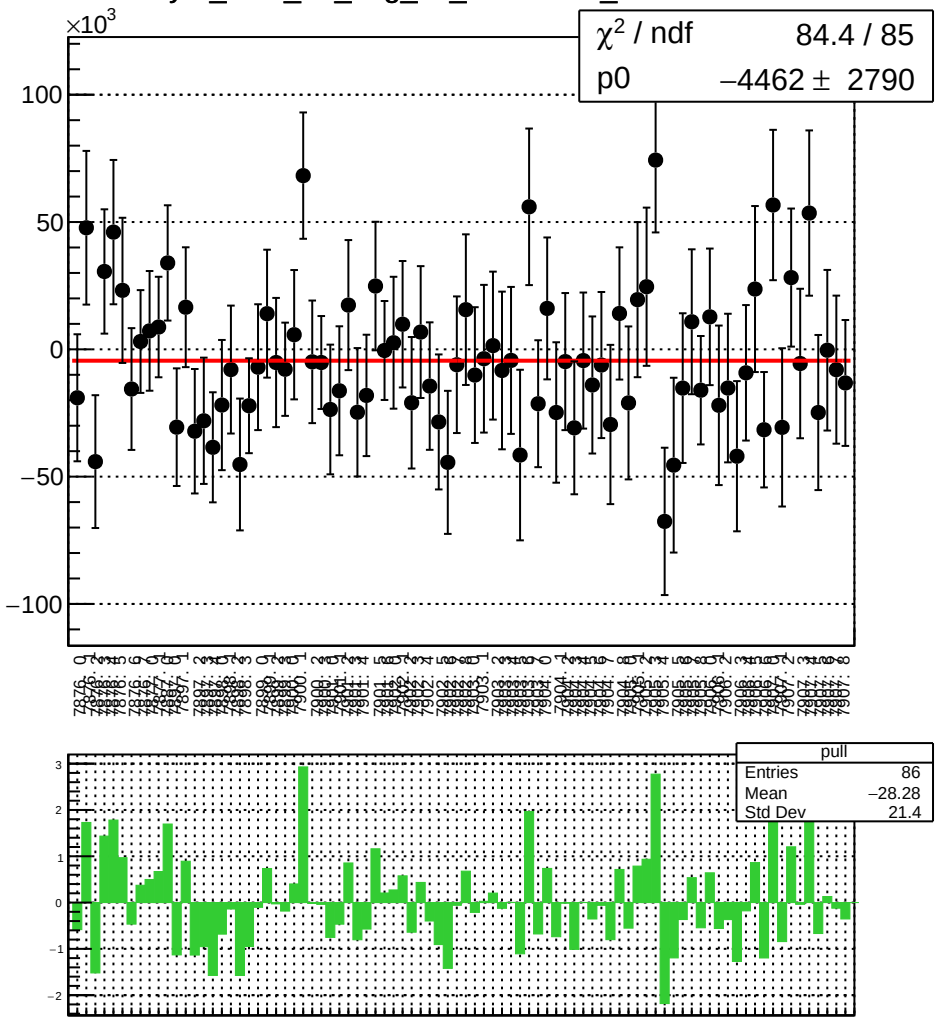

pull1D
Entries 86
Mean 0.01255
Std Dev 0.9893
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

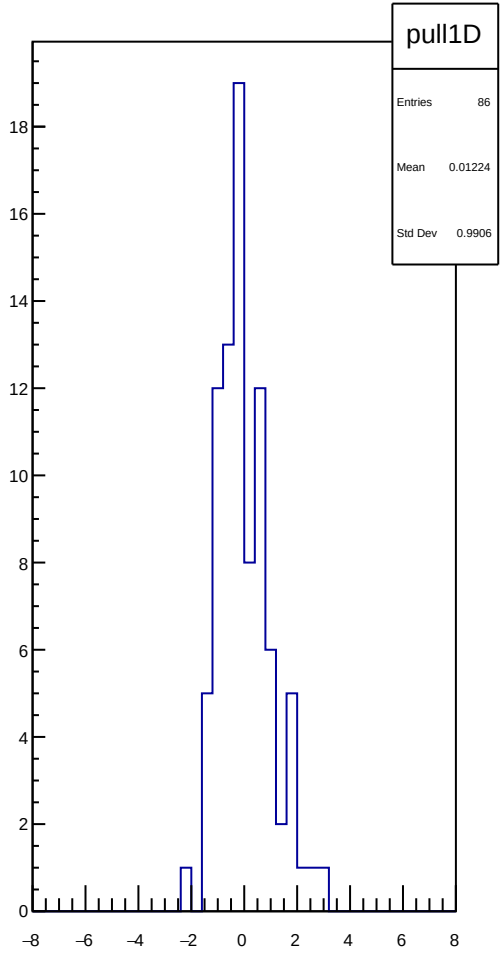

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.567e+04 / 85
p0 2545 ± 1.968
3200
3000
2800
2600
2400
2200

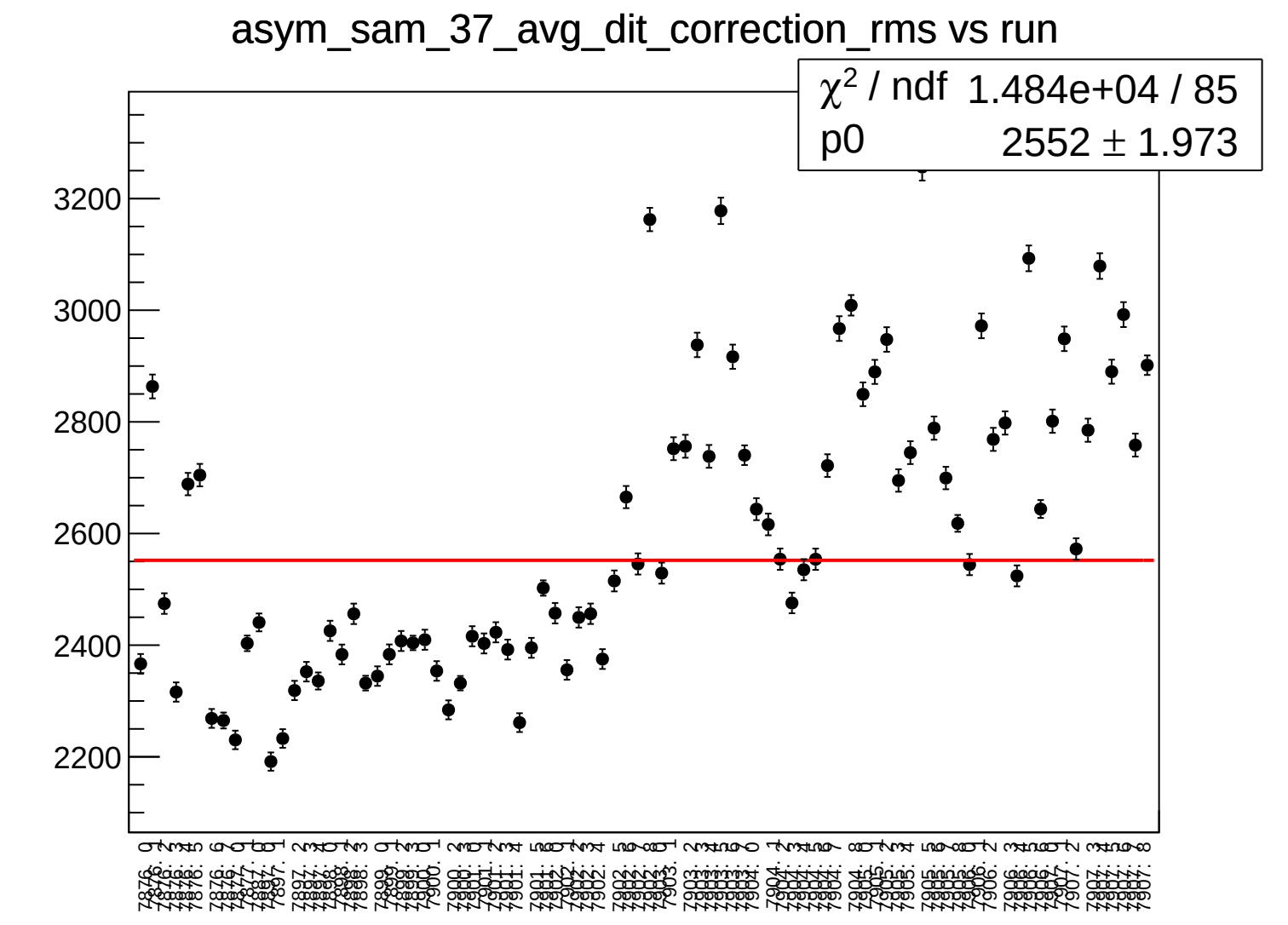

dit_asym_sam_37_avg_mean vs run
χ² / ndf 84.4 / 85
p0 −361.2 ± 318.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −281.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

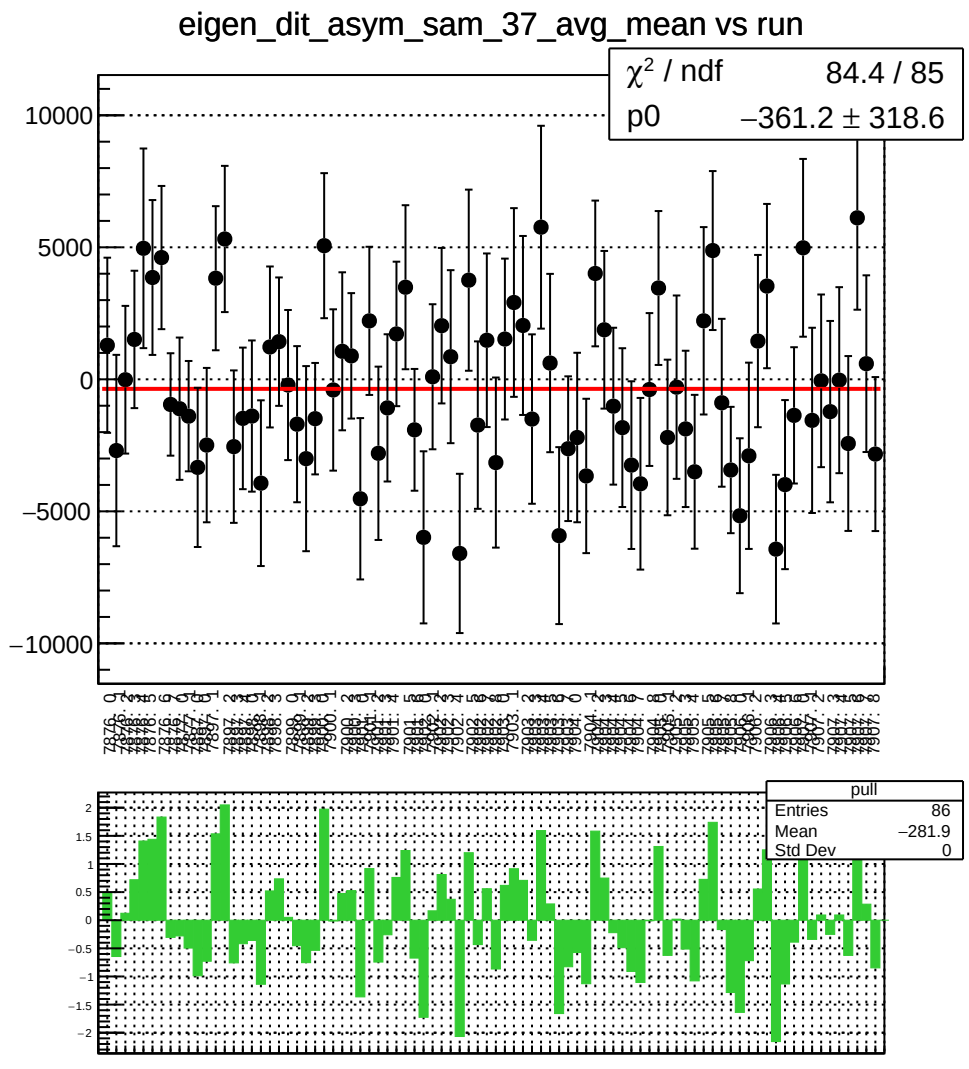

pull1D
Entries 86
Mean 0.009999
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

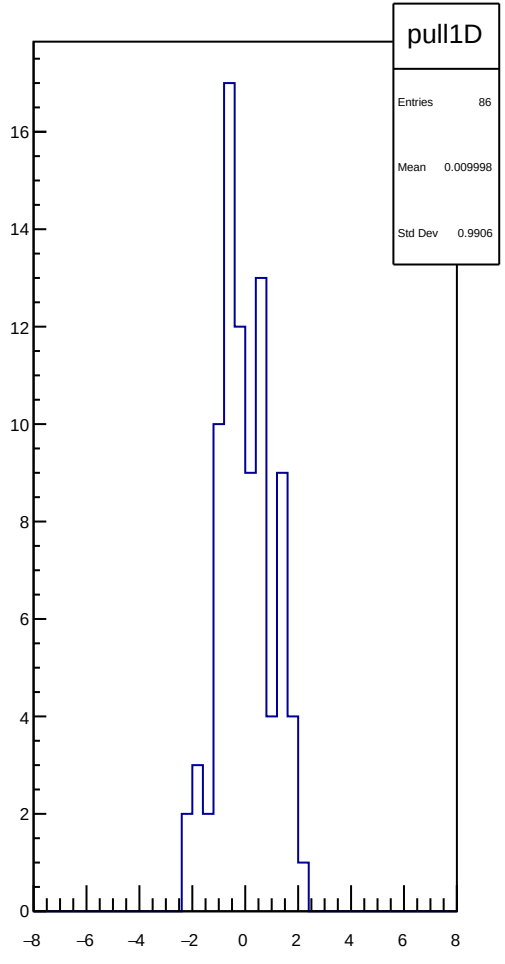

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.583e+04 / 85
p0 291.3 ± 0.2253
380
360
340
320
300
280
260
240
220

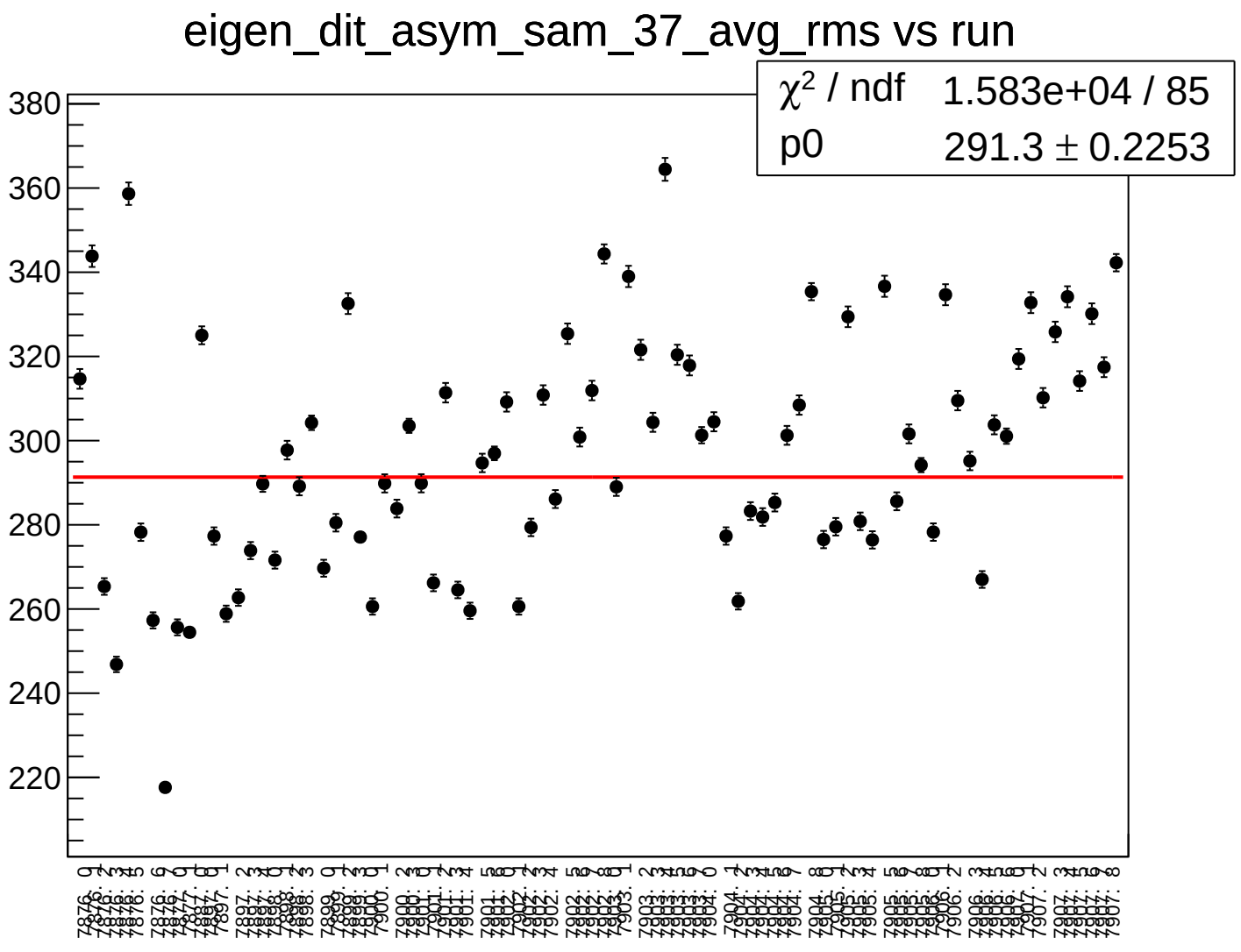

asym_sam_37_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.4 / 85
p0 −4462 ± 2790
100
50
0
−50
−100
pull
Entries 86
Mean −28.28
Std Dev 21.4
3
2
1
0
−1
−2

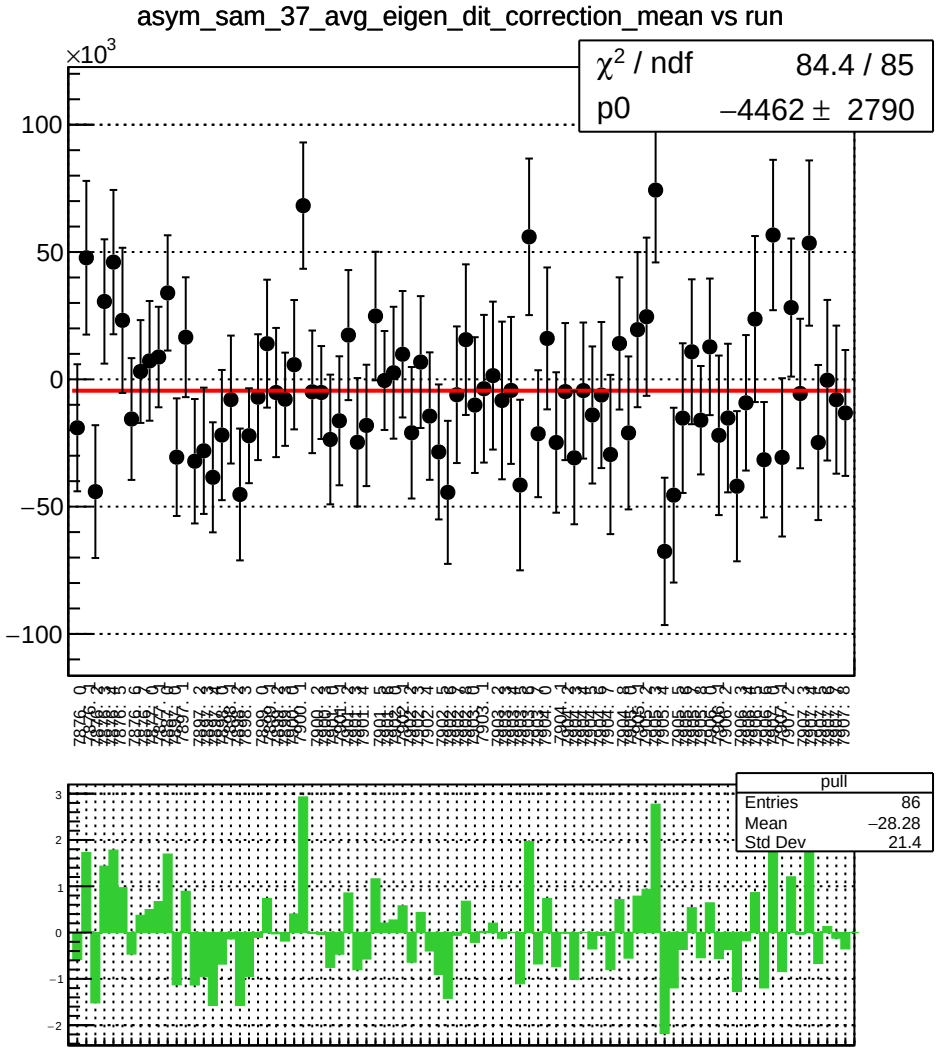

pull1D
Entries 86
Mean 0.01224
Std Dev 0.9906
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

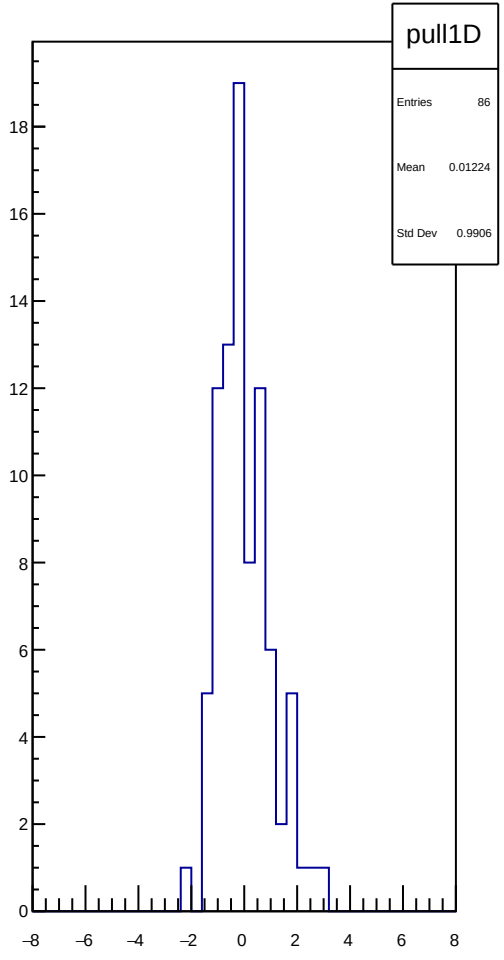

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.484e+04 / 85
p0 2552 ± 1.973
3200
3000
2800
2600
2400
2200

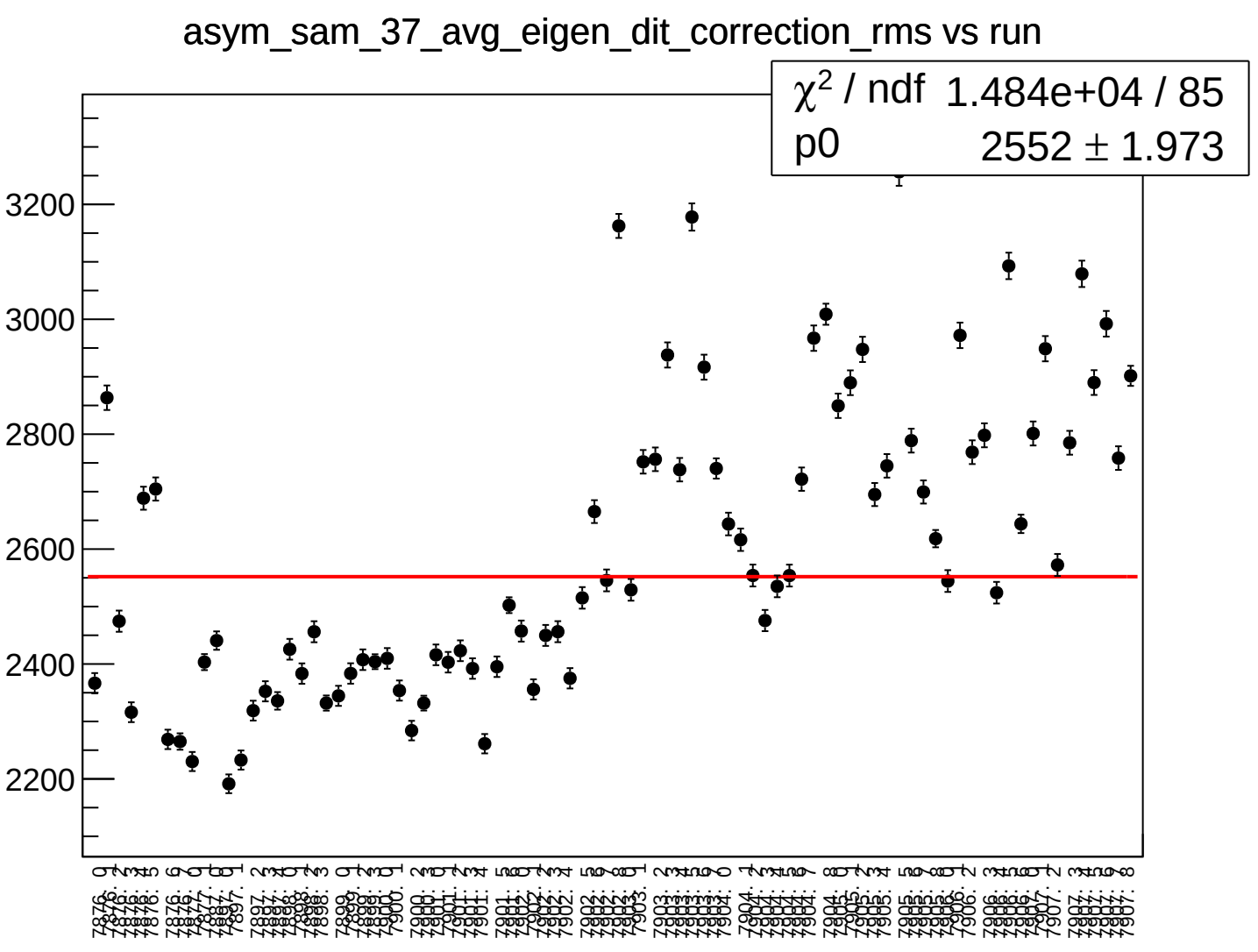

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 84.4 / 85
p0 −361.2 ± 318.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −281.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

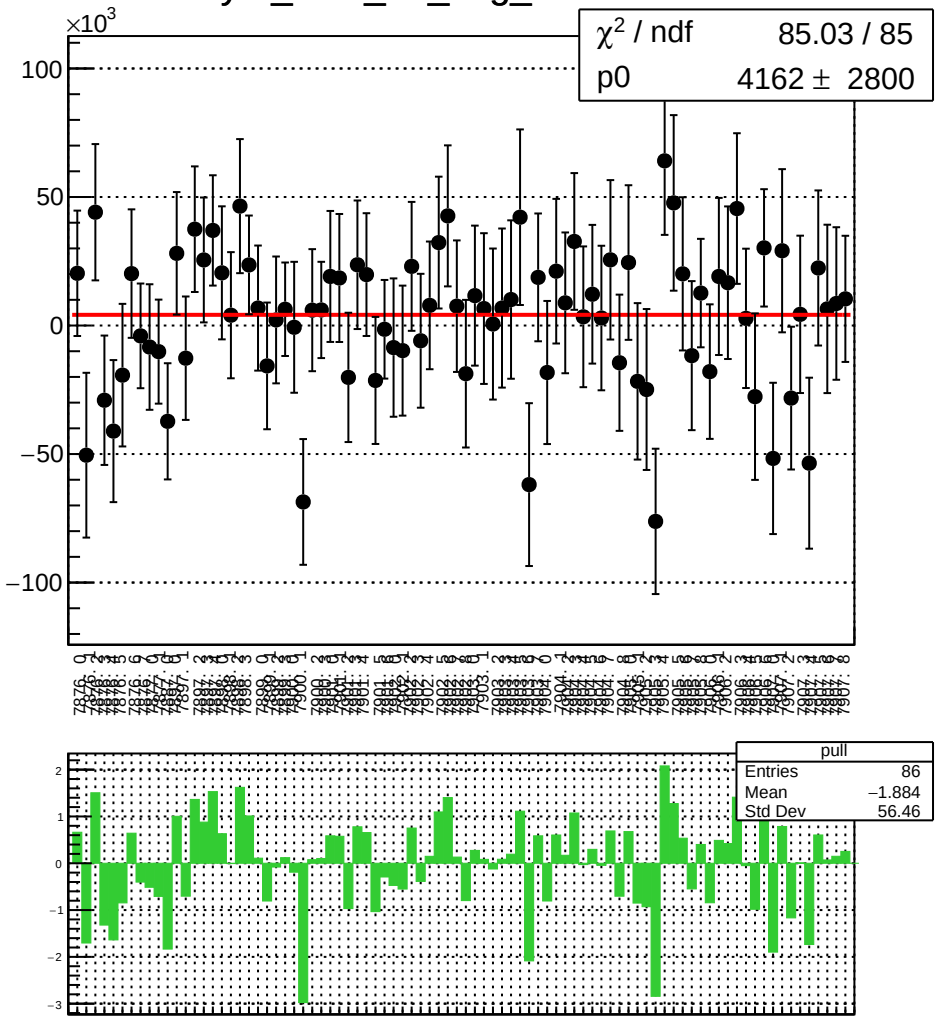

pull1D
Entries 86
Mean 0.009998
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

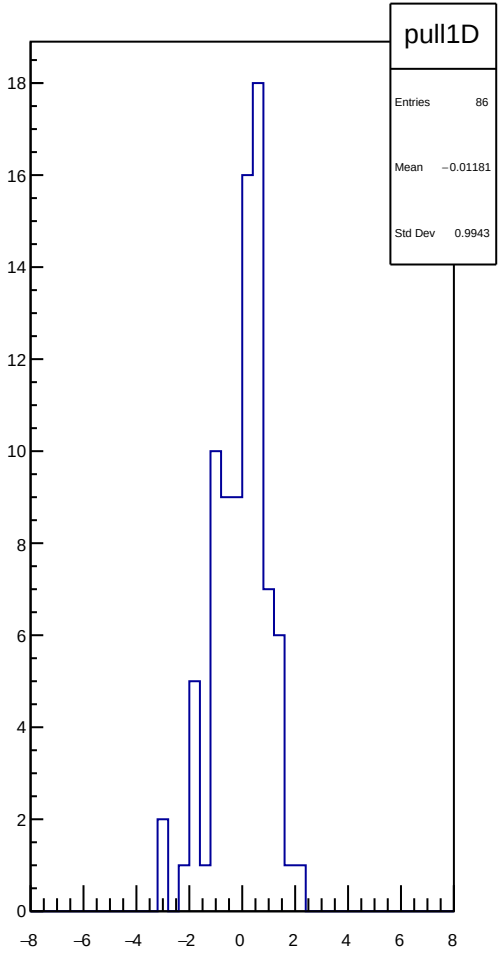

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.583e+04 / 85
p0 291.3 ± 0.2253
380
360
340
320
300
280
260
240
220

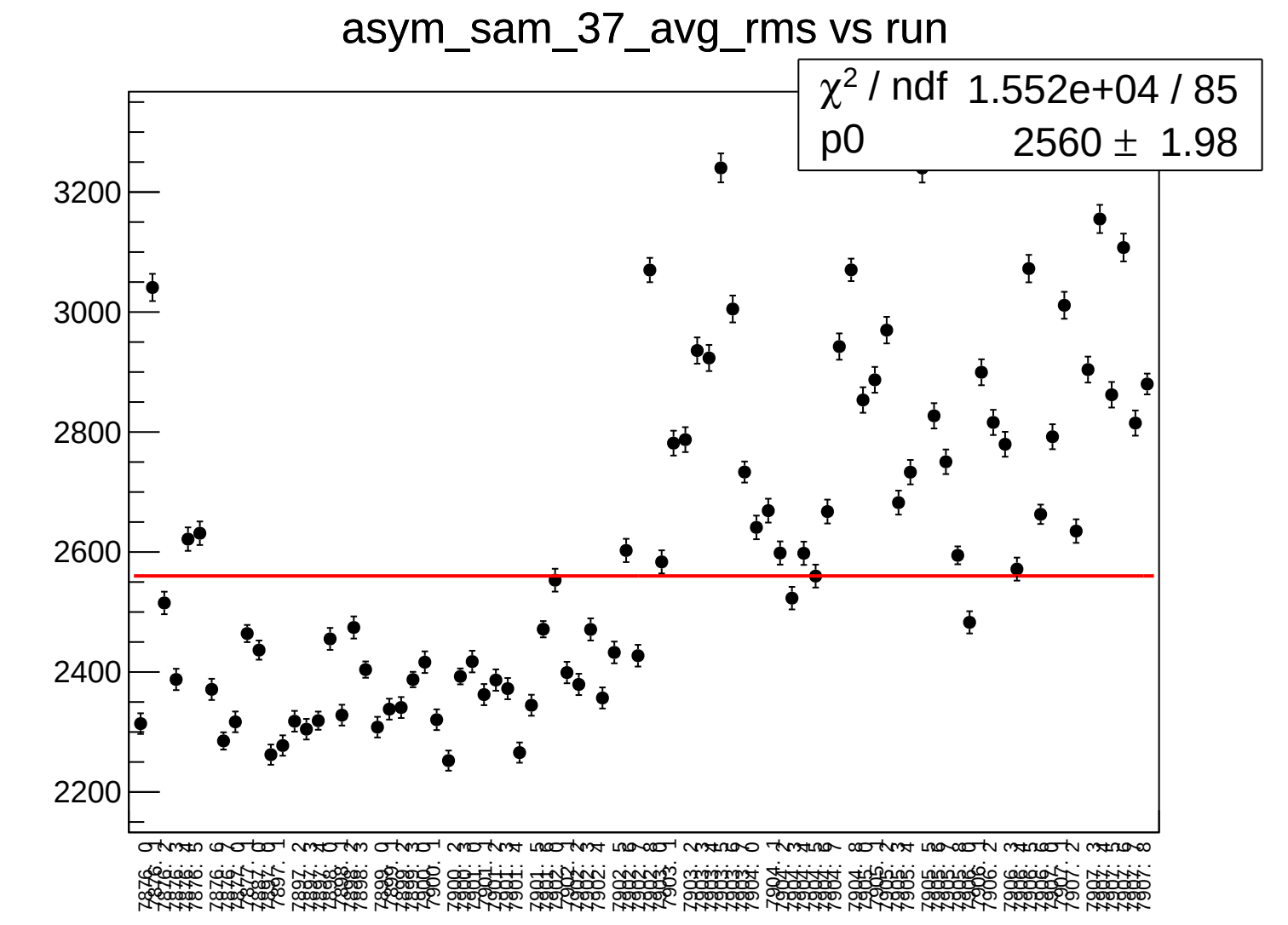

asym_sam_37_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.4 / 85
p0 −4462 ± 2790
100
50
0
−50
−100
pull
Entries 86
Mean −28.28
Std Dev 21.4
3
2
1
0
−1
−2

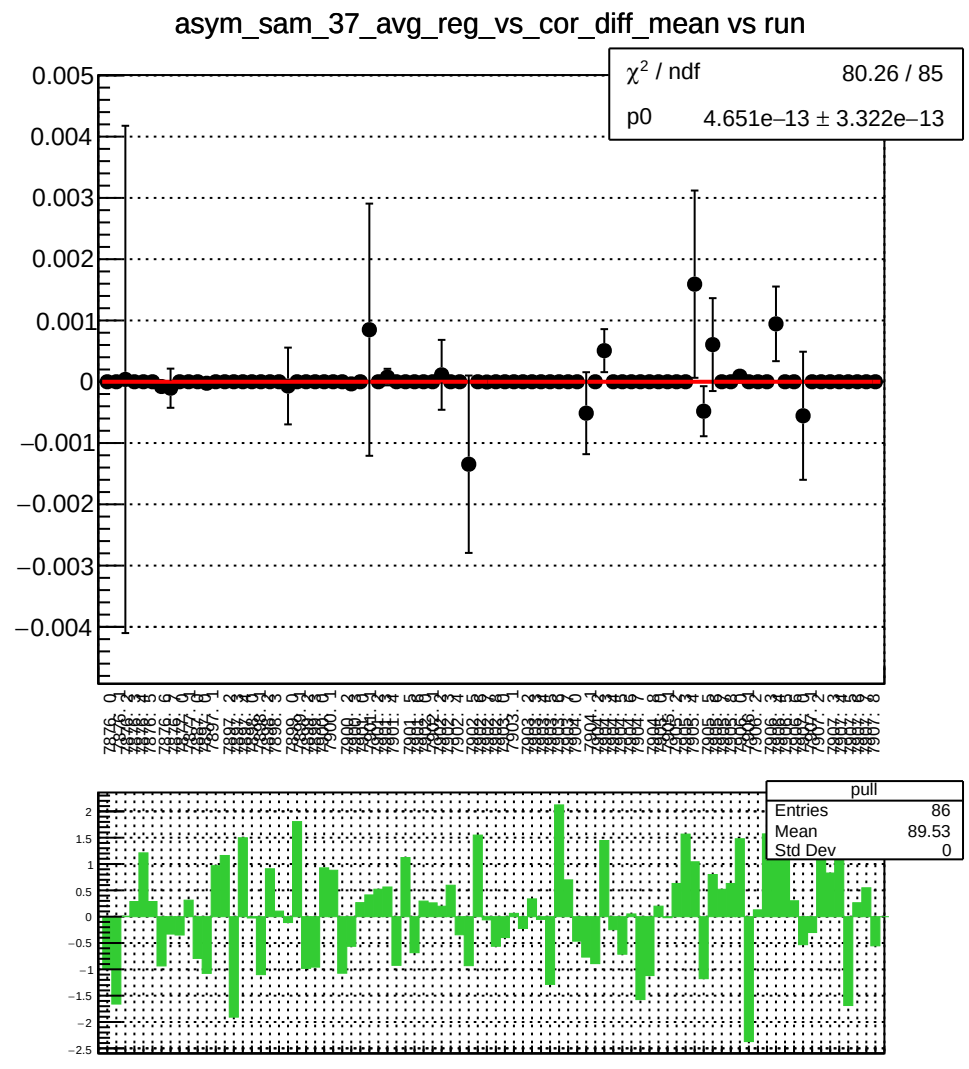

pull1D
Entries 86
Mean 0.01224
Std Dev 0.9906
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

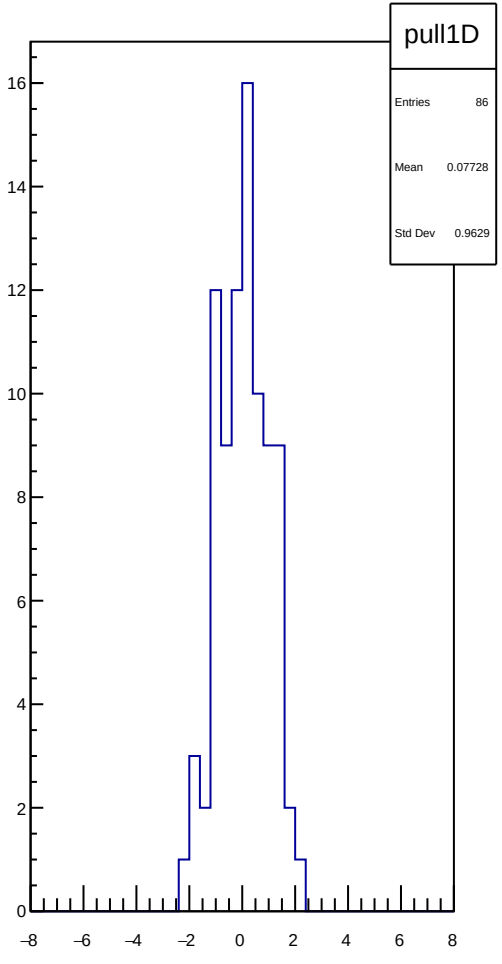

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.484e+04 / 85
p0 2552 ± 1.973
3200
3000
2800
2600
2400
2200

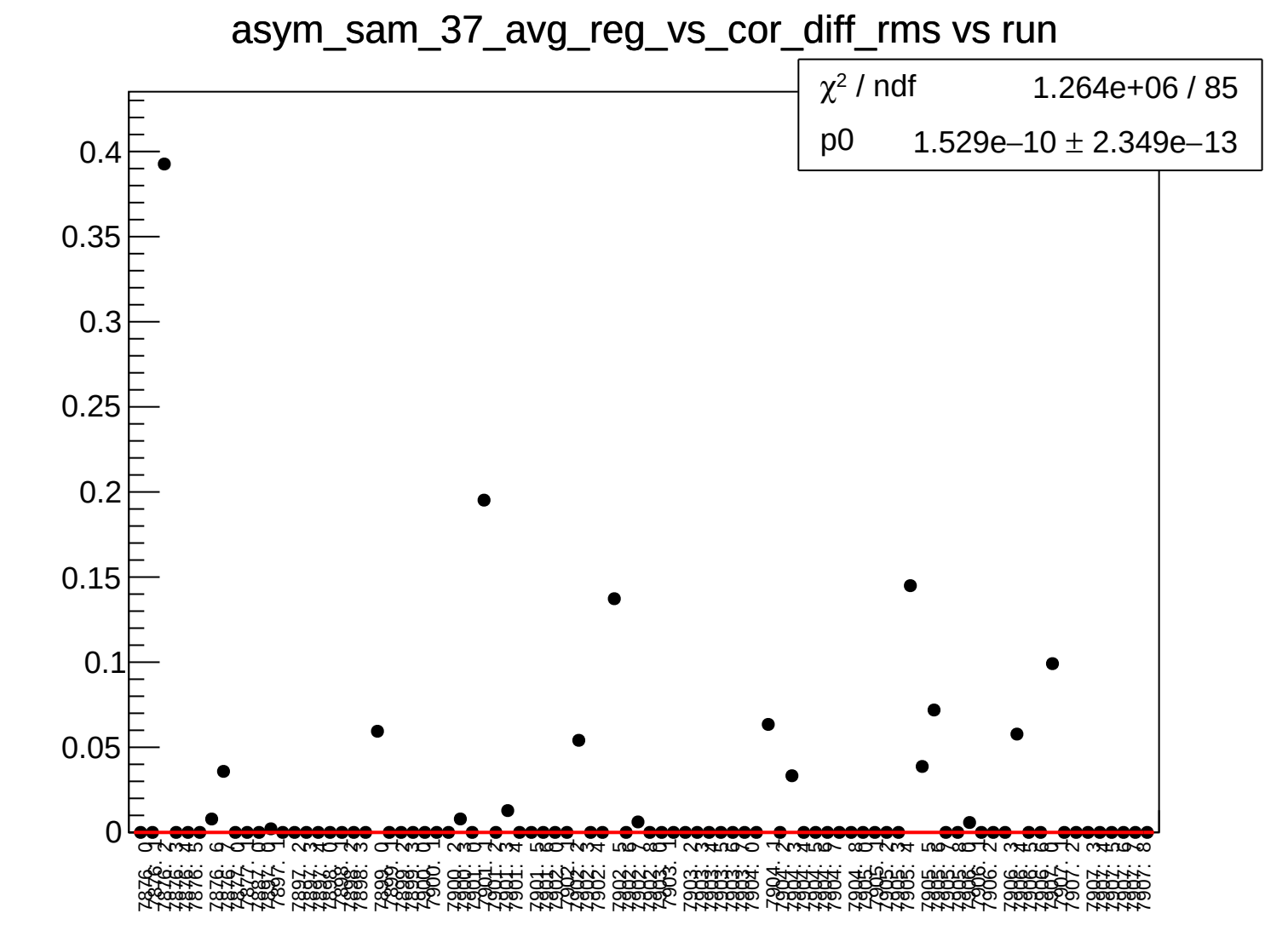

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 85.03 / 85
p0 4162 ± 2800
100
50
0
−50
−100
pull
Entries 86
Mean −1.884
Std Dev 56.46
2
1
0
−1
−2
−3

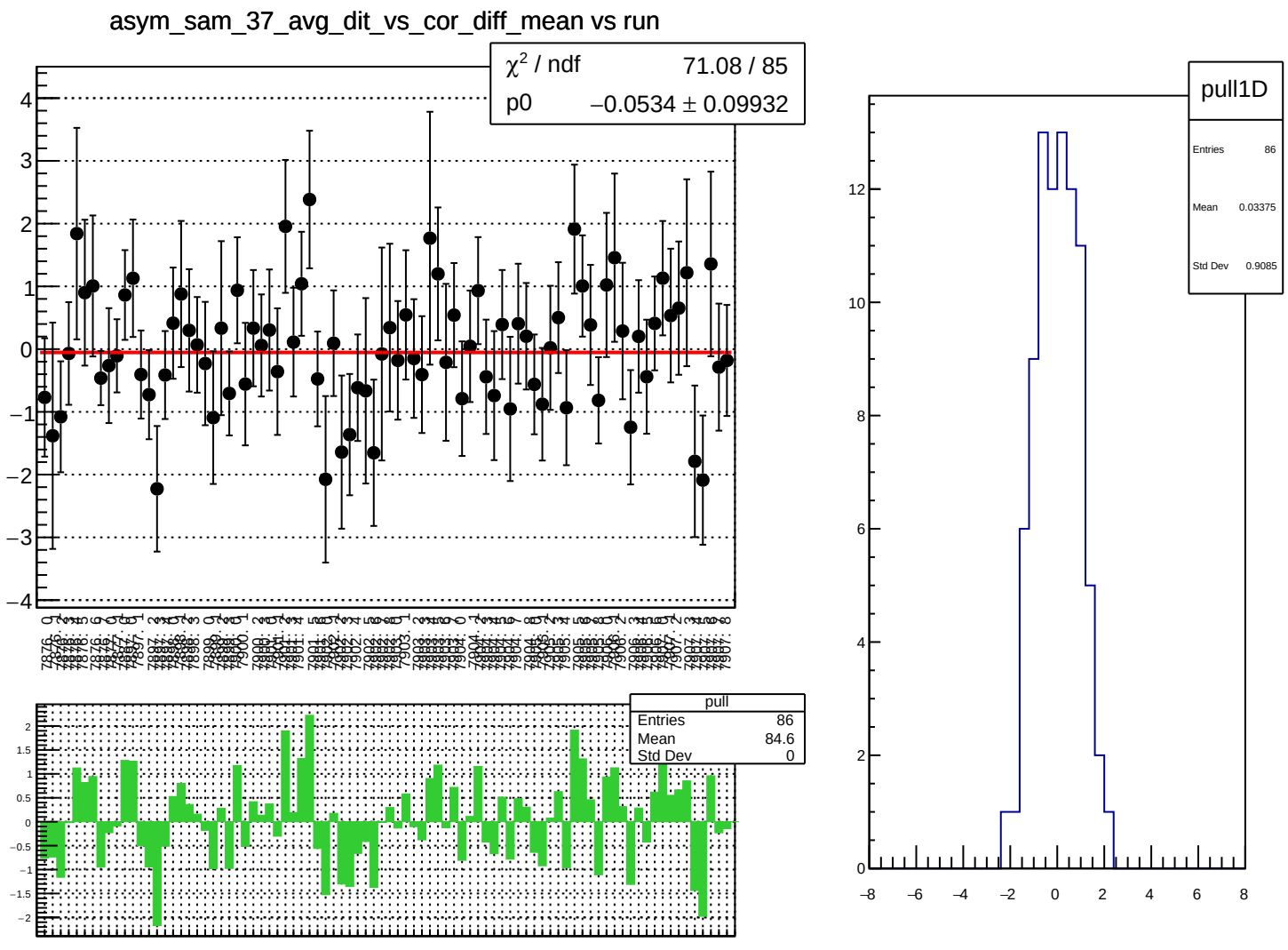

pull1D
Entries 86
Mean −0.01181
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

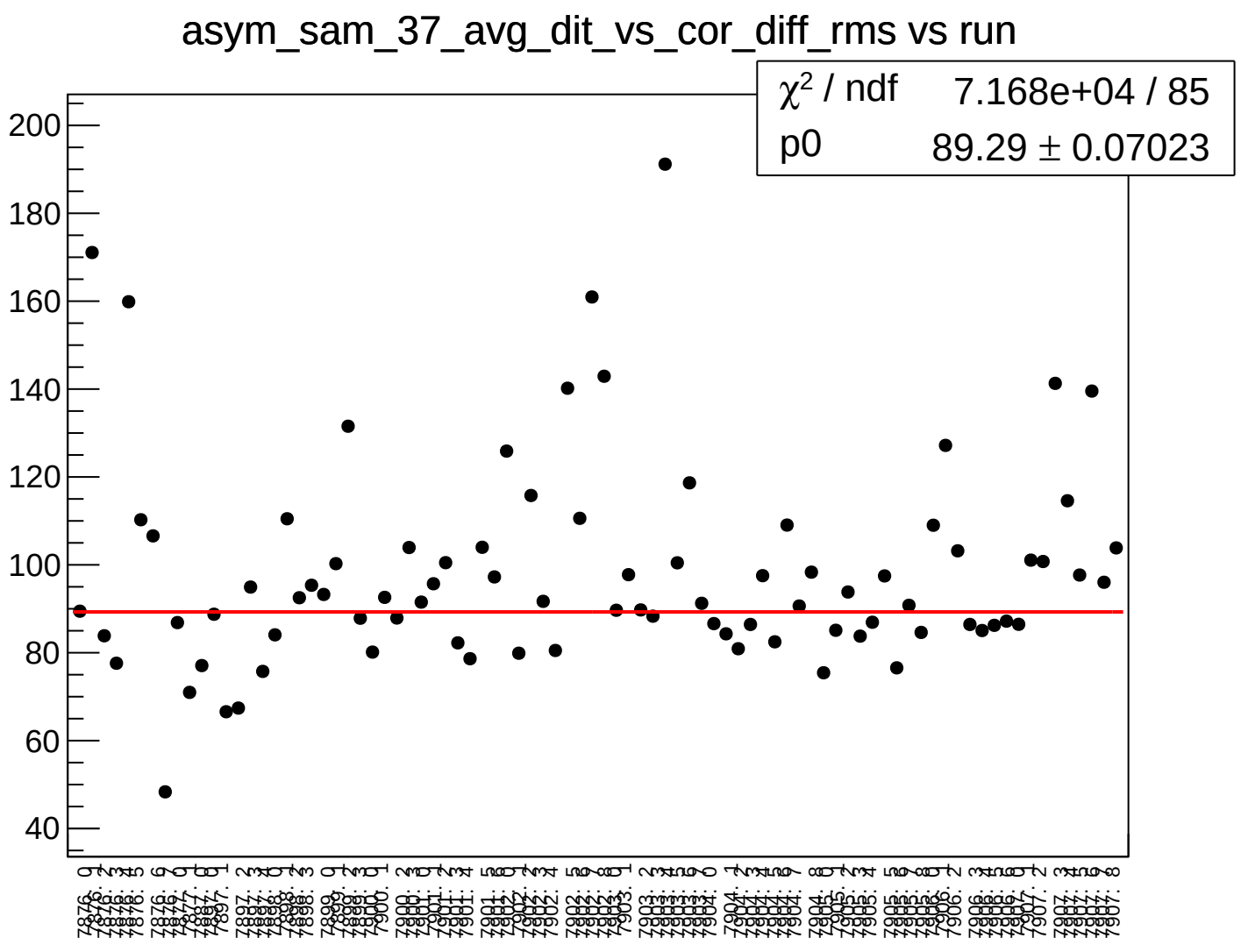

asym_sam_37_avg_rms vs run
χ² / ndf 1.552e+04 / 85
p0 2560 ± 1.98
3200
3000
2800
2600
2400
2200


asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.26 / 85
p0 4.651e−13 ± 3.322e−13
pull
Entries 86
Mean 89.53
Std Dev 0

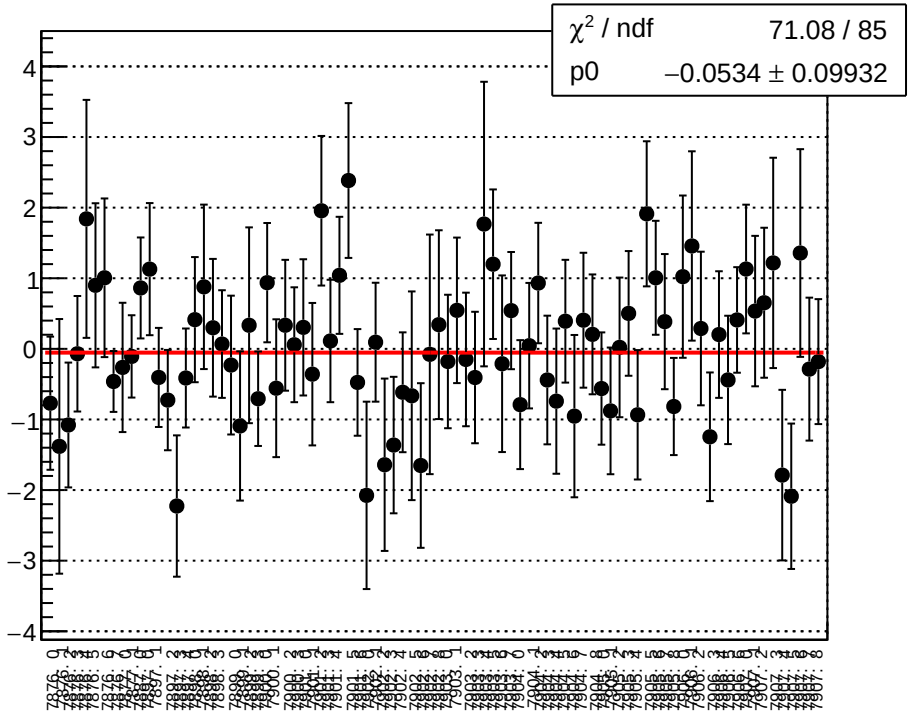

pull1D
Entries 86
Mean 0.07728
Std Dev 0.9629

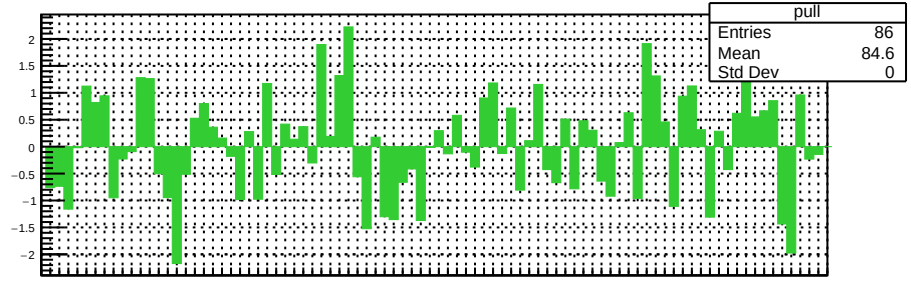

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.264e+06 / 85
p0 1.529e−10 ± 2.349e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

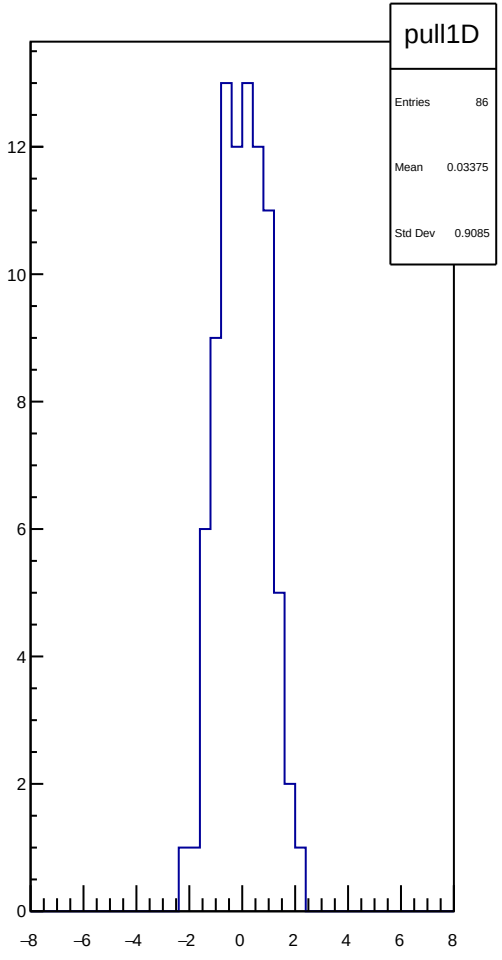

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.08 / 85
p0 −0.0534 ± 0.09932
pull
Entries 86
Mean 84.6
Std Dev 0
pull1D
Entries 86
Mean 0.03375
Std Dev 0.9085

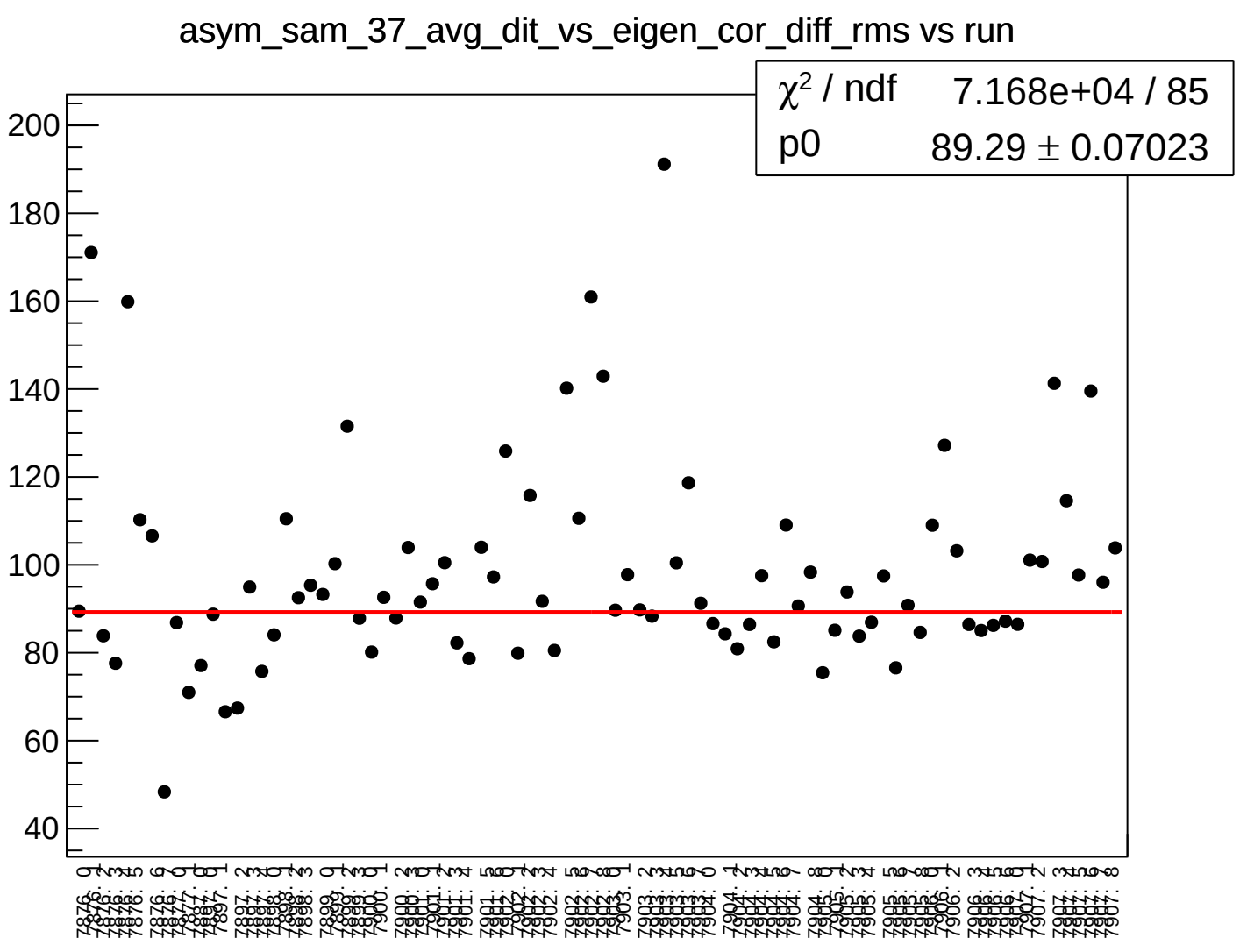

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.168e+04 / 85
p0 89.29 ± 0.07023
200
180
160
140
120
100
80
60
40

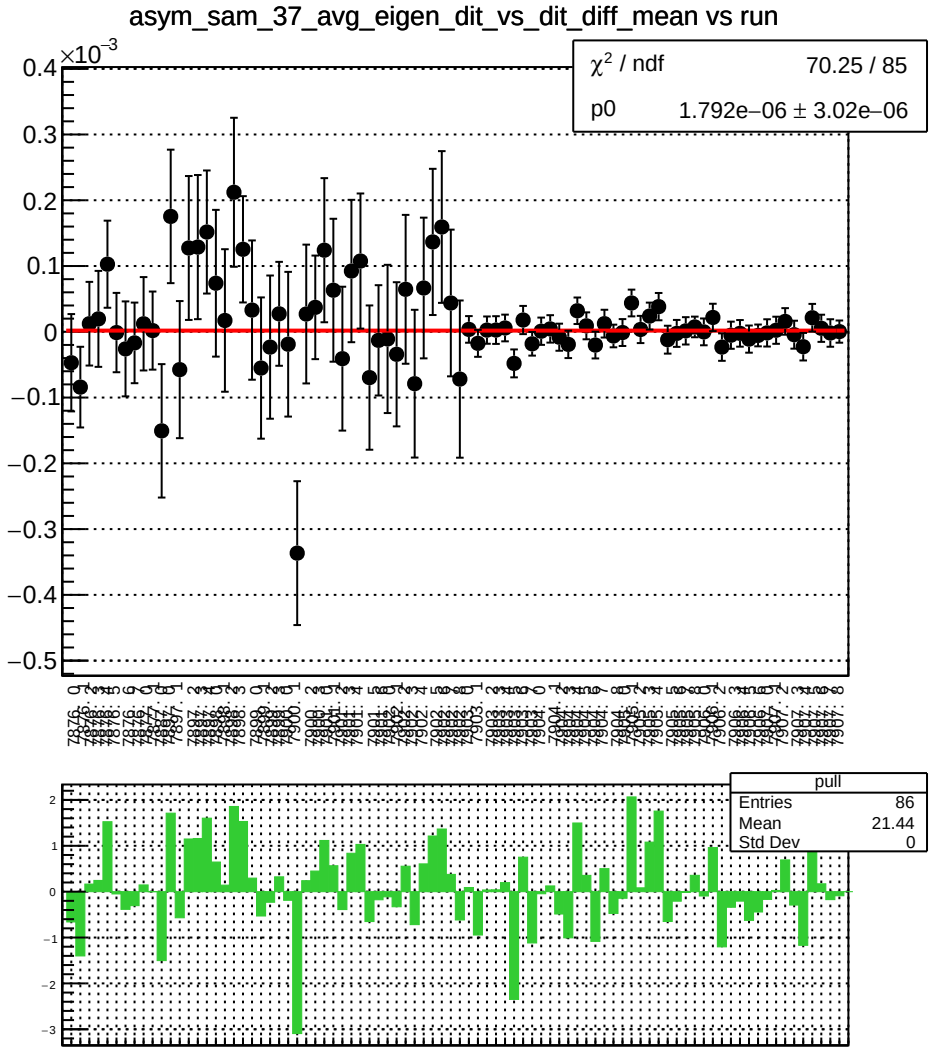
asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run

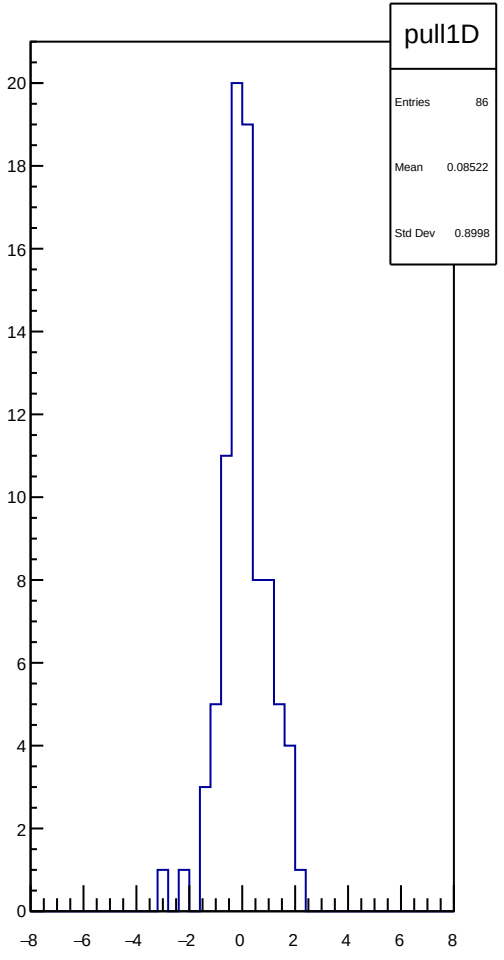


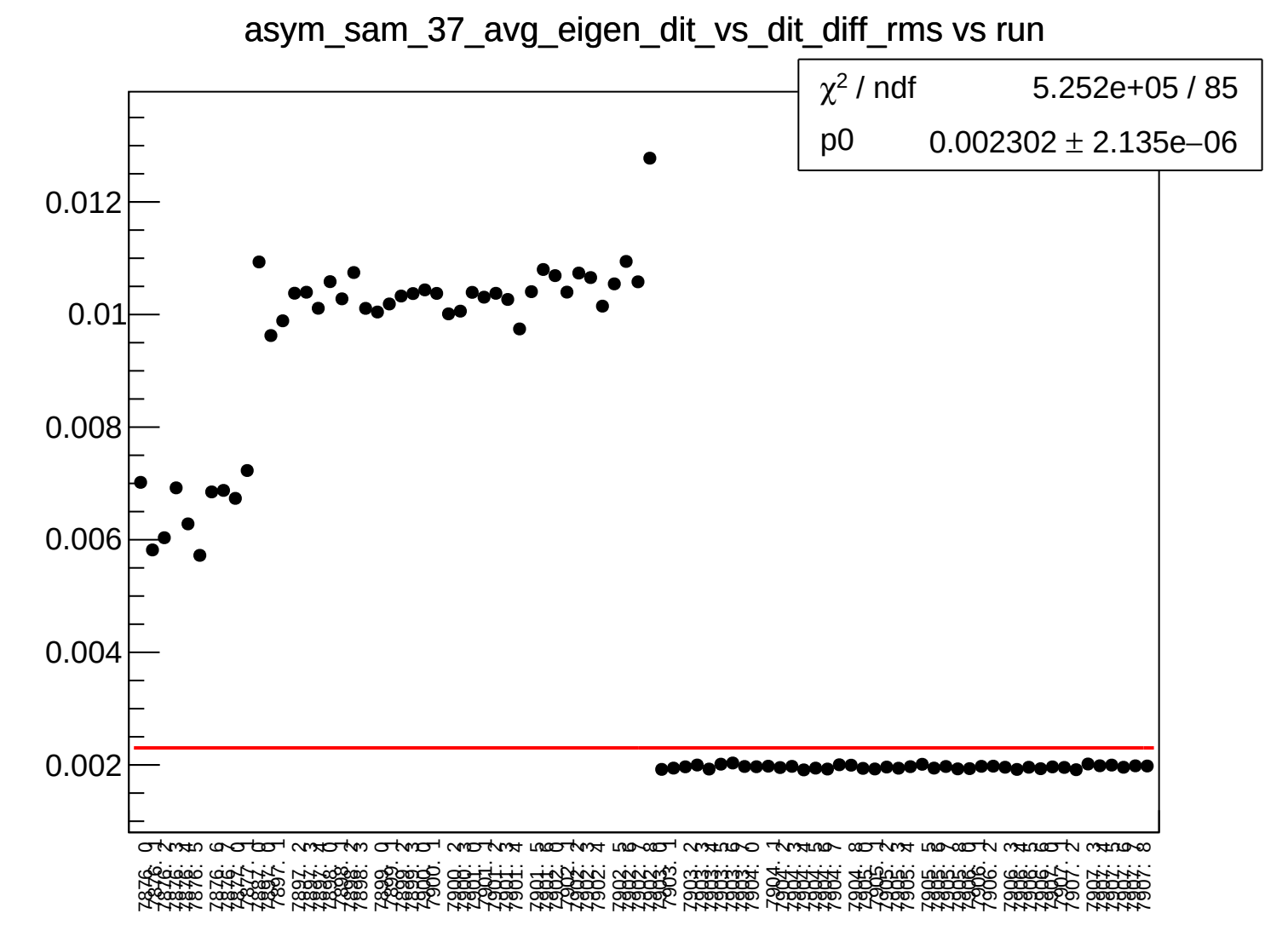




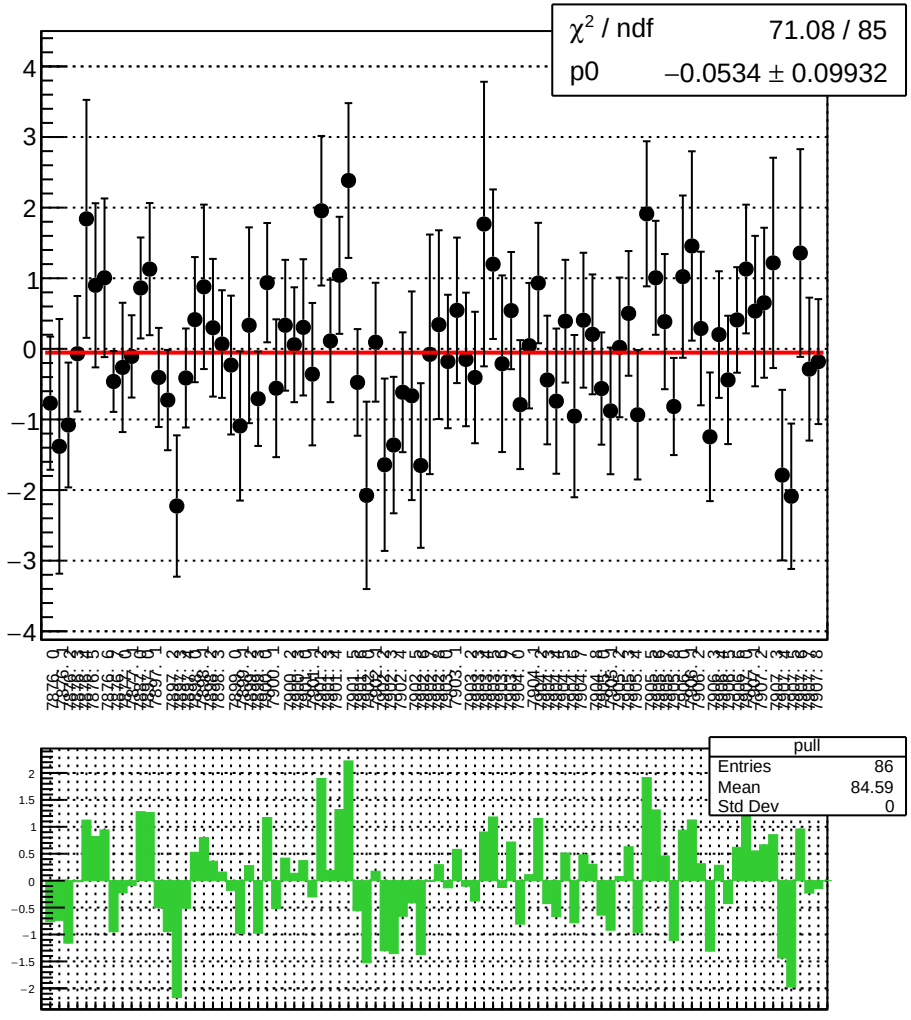

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.168e+04 / 85
p0 89.29 ± 0.07023
200
180
160
140
120
100
80
60
40

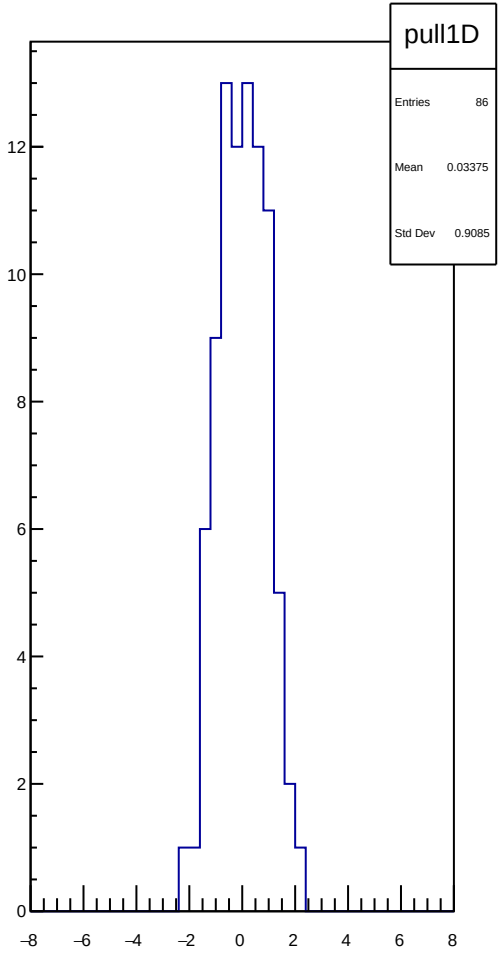

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.25 / 85
p0 1.792e−06 ± 3.02e−06
pull
Entries 86
Mean 21.44
Std Dev 0

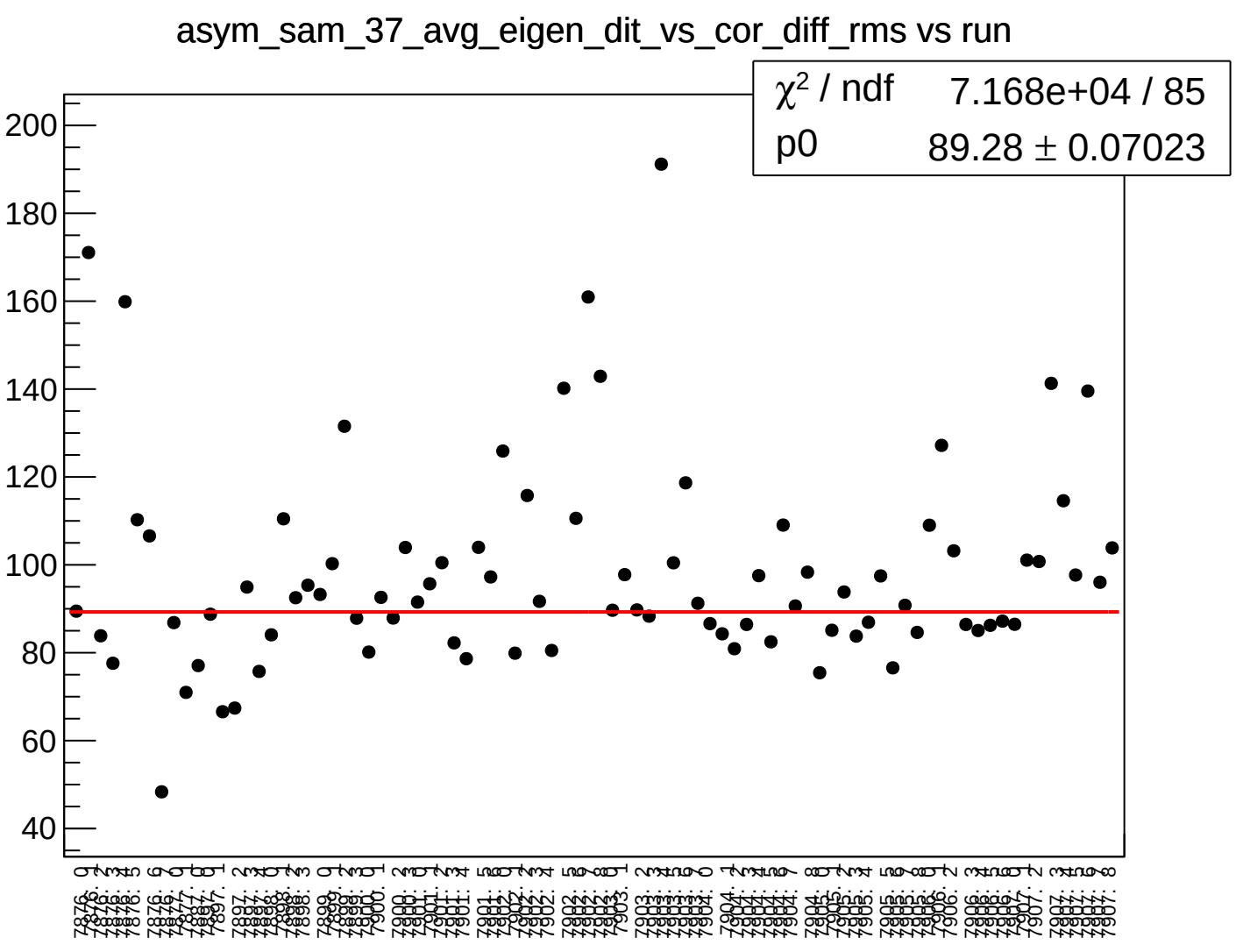

pull1D
Entries 86
Mean 0.08522
Std Dev 0.8998

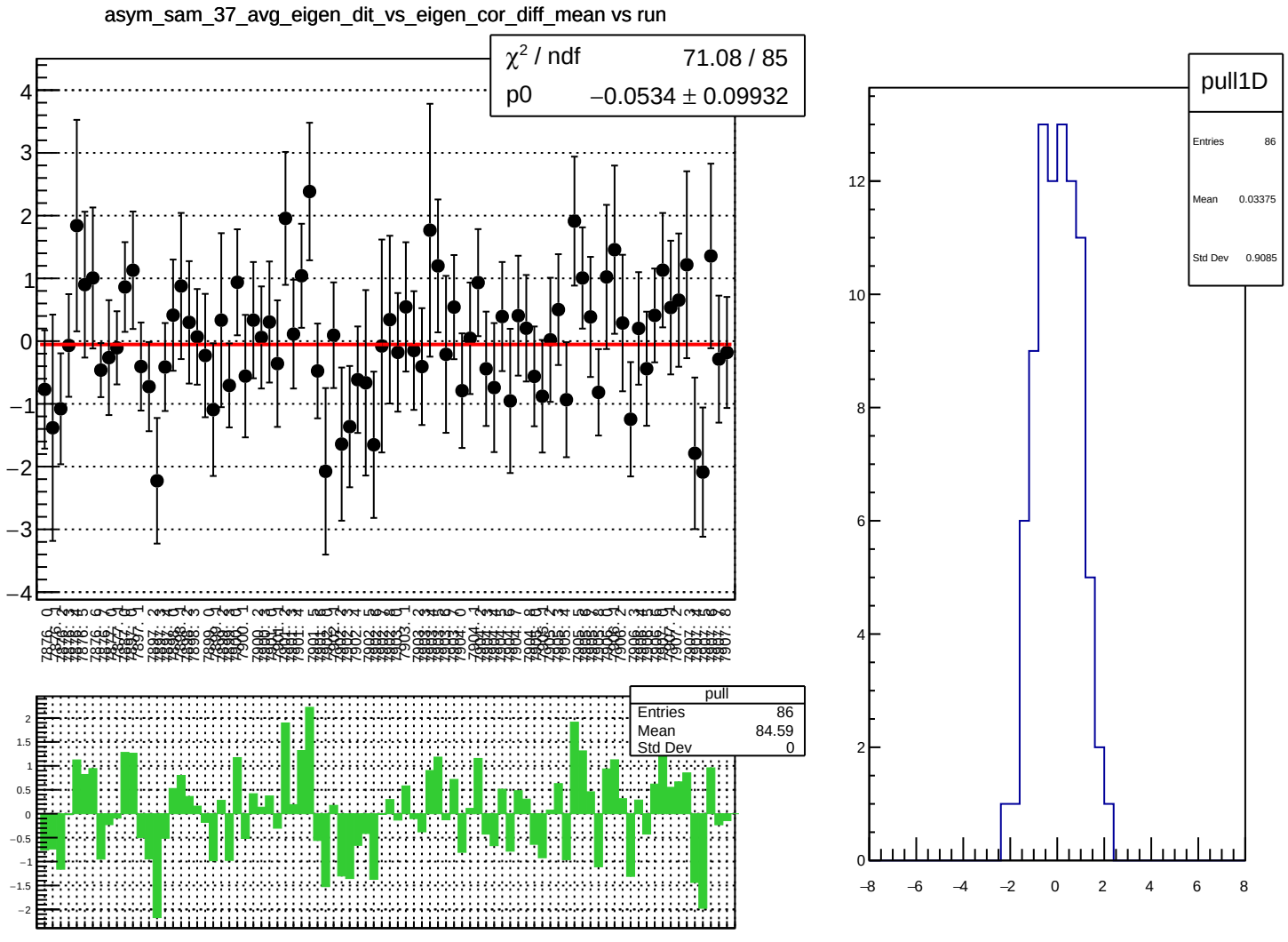

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.252e+05 / 85
p0 0.002302 ± 2.135e−06
0.012
0.01
0.008
0.006
0.004
0.002

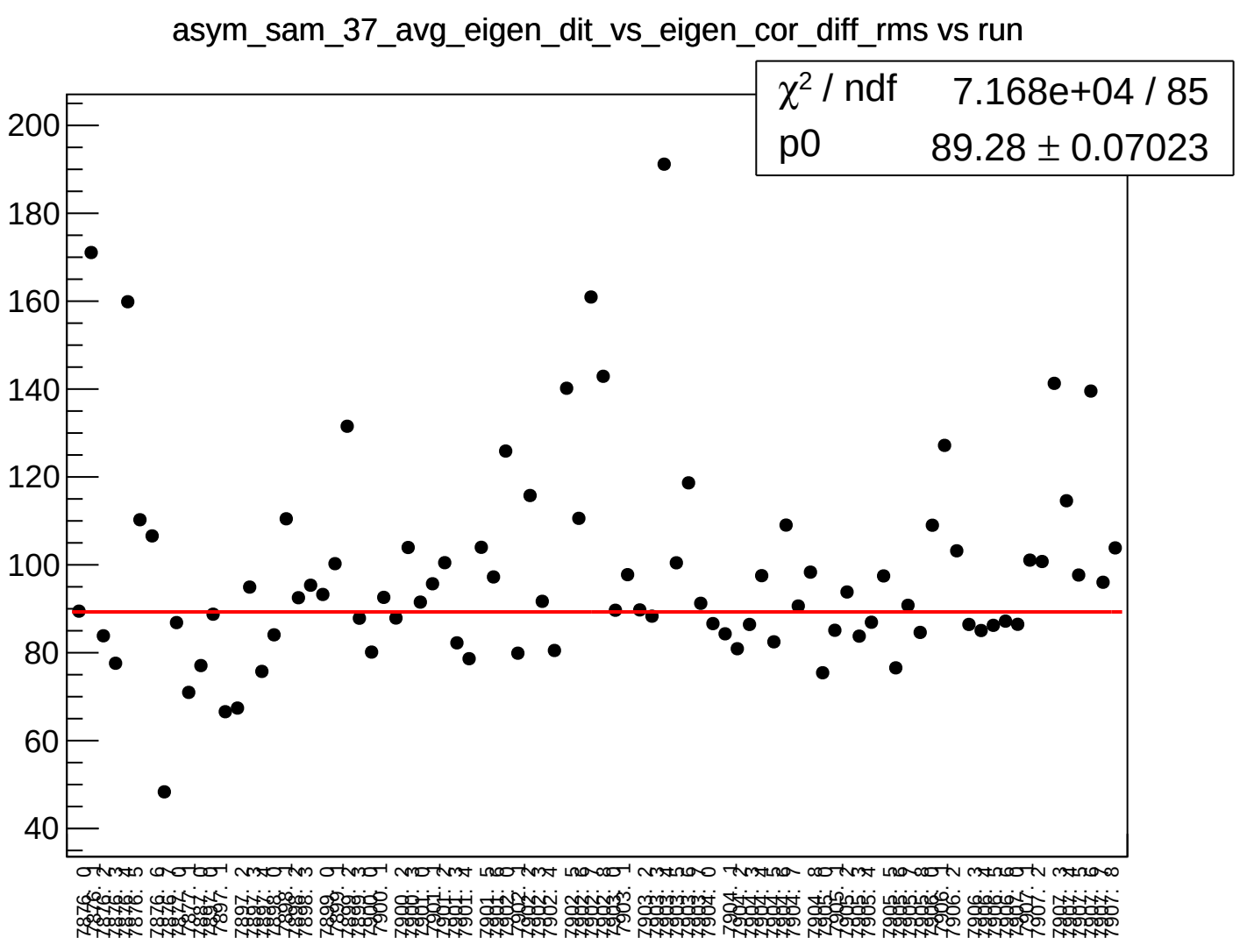
asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run

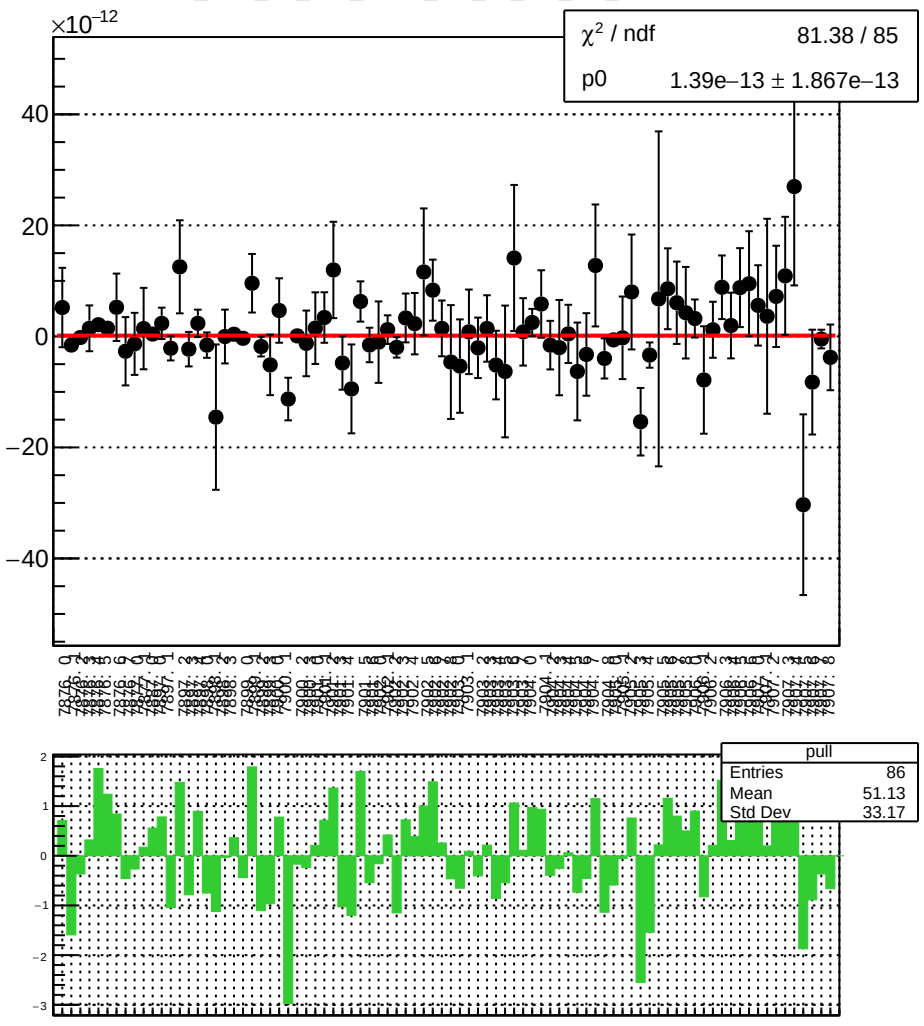


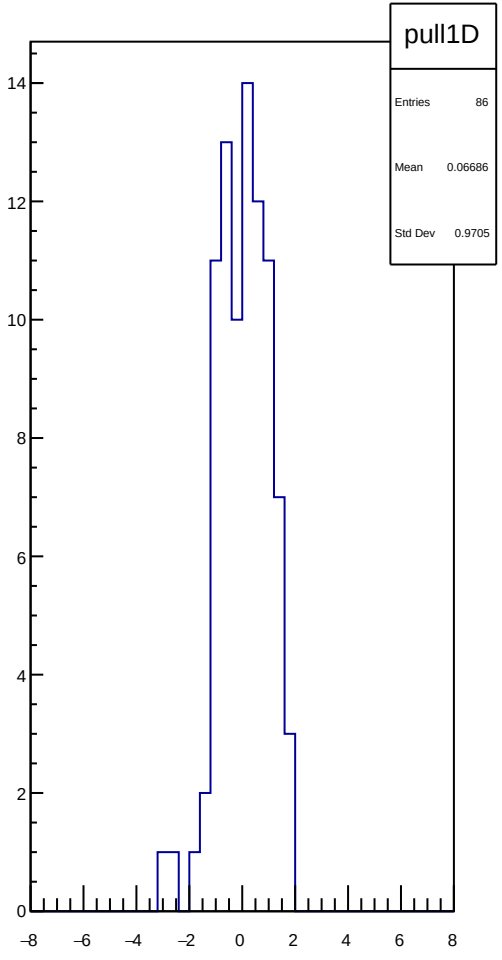


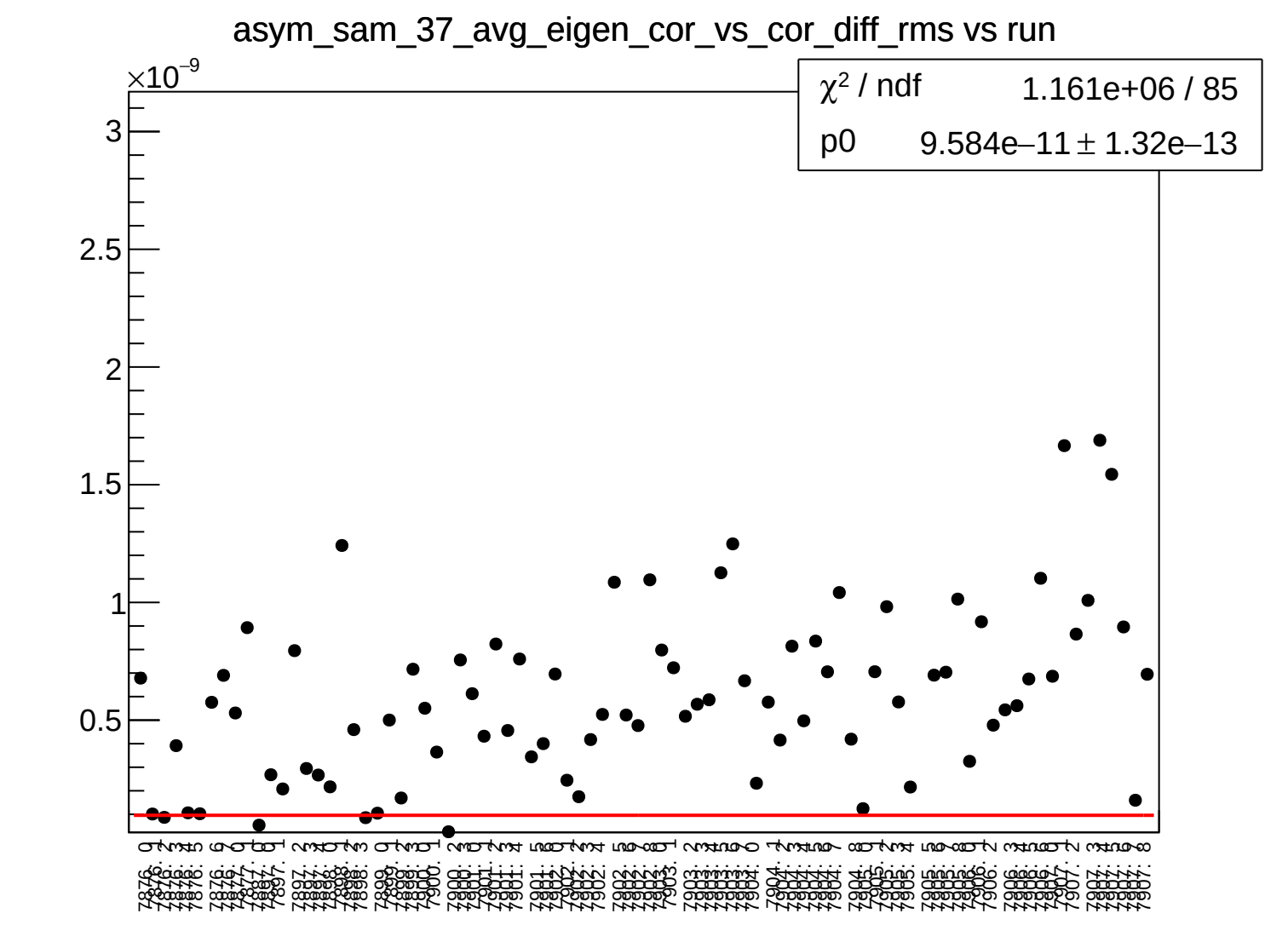

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.168e+04 / 85
p0 89.28 ± 0.07023
200
180
160
140
120
100
80
60
40

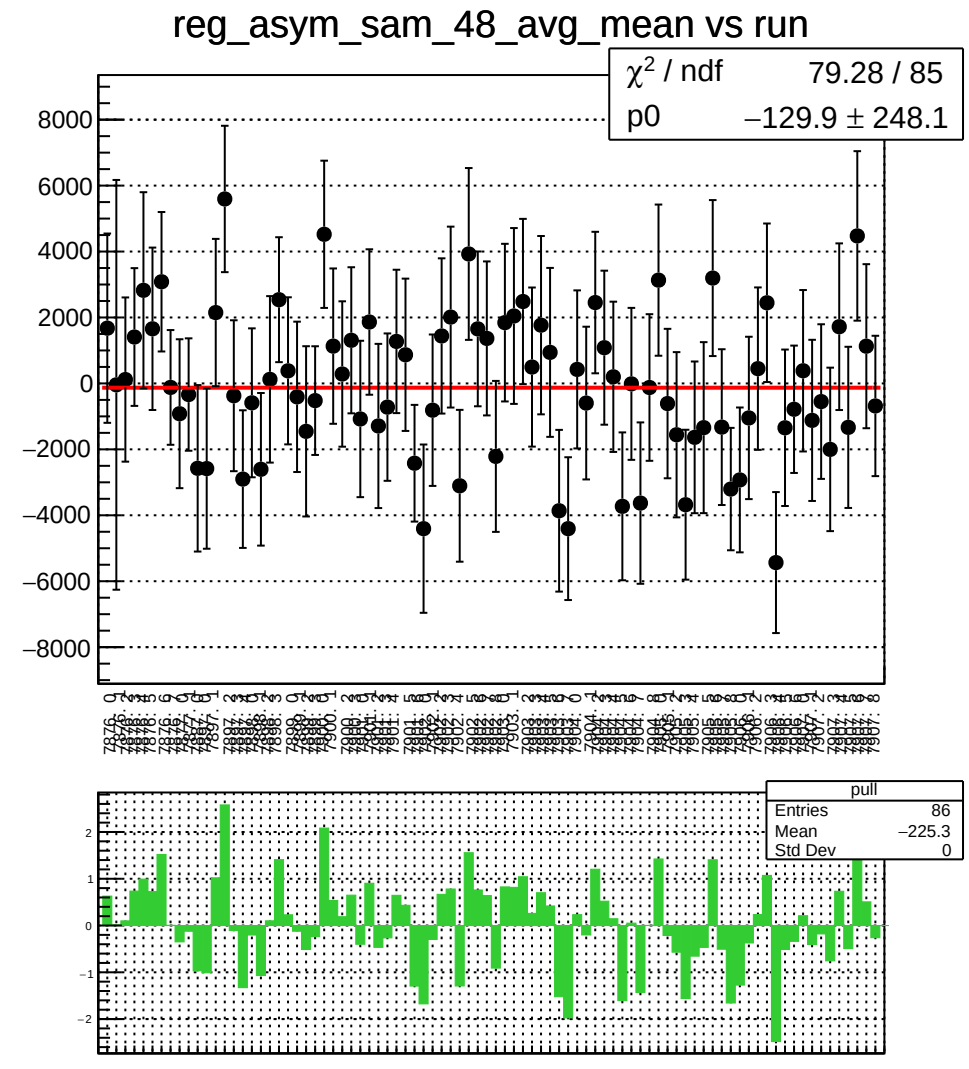

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.08 / 85
p0 −0.0534 ± 0.09932
pull
Entries 86
Mean 84.59
Std Dev 0
pull1D
Entries 86
Mean 0.03375
Std Dev 0.9085

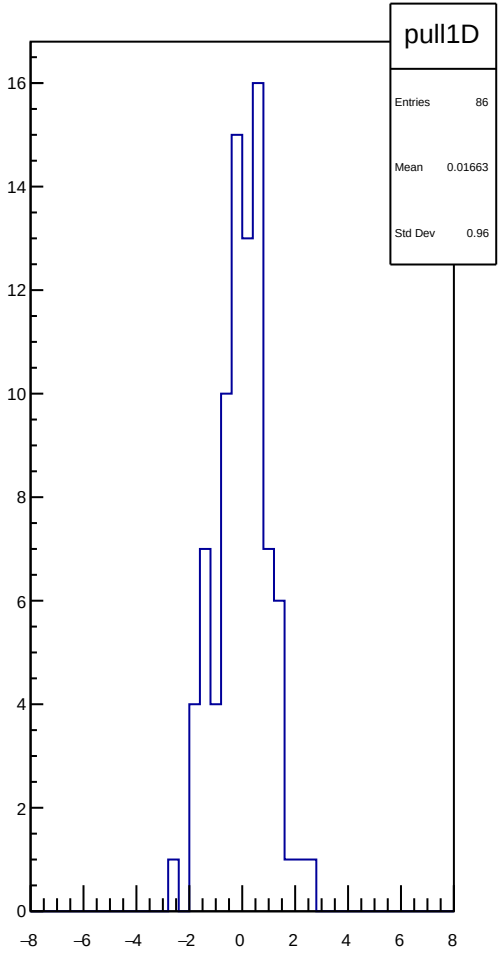

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.168e+04 / 85
p0 89.28 ± 0.07023
200
180
160
140
120
100
80
60
40

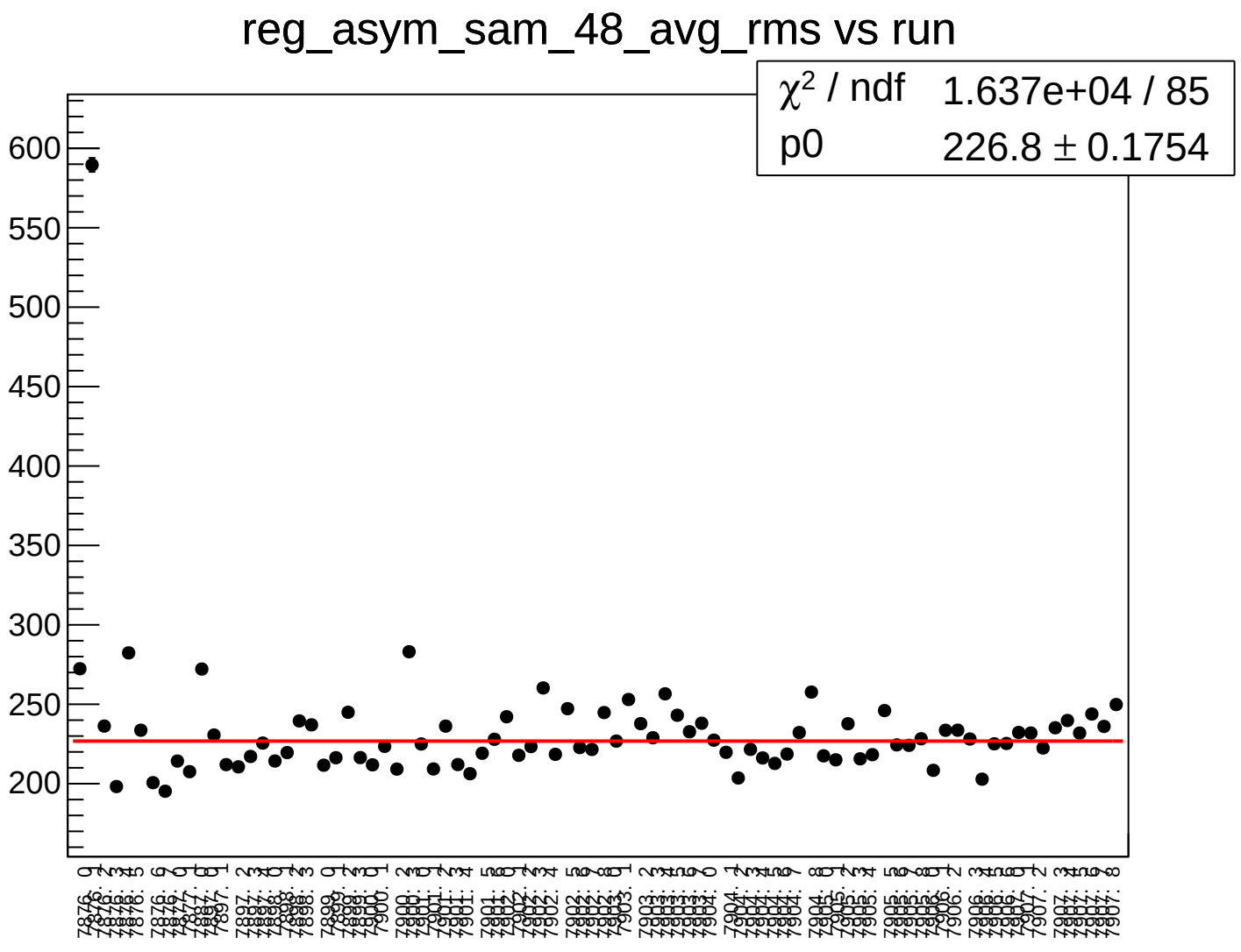

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.38 / 85
p0 1.39e−13 ± 1.867e−13
40
20
0
−20
−40
pull
Entries 86
Mean 51.13
Std Dev 33.17
2
1
0
−1
−2
−3

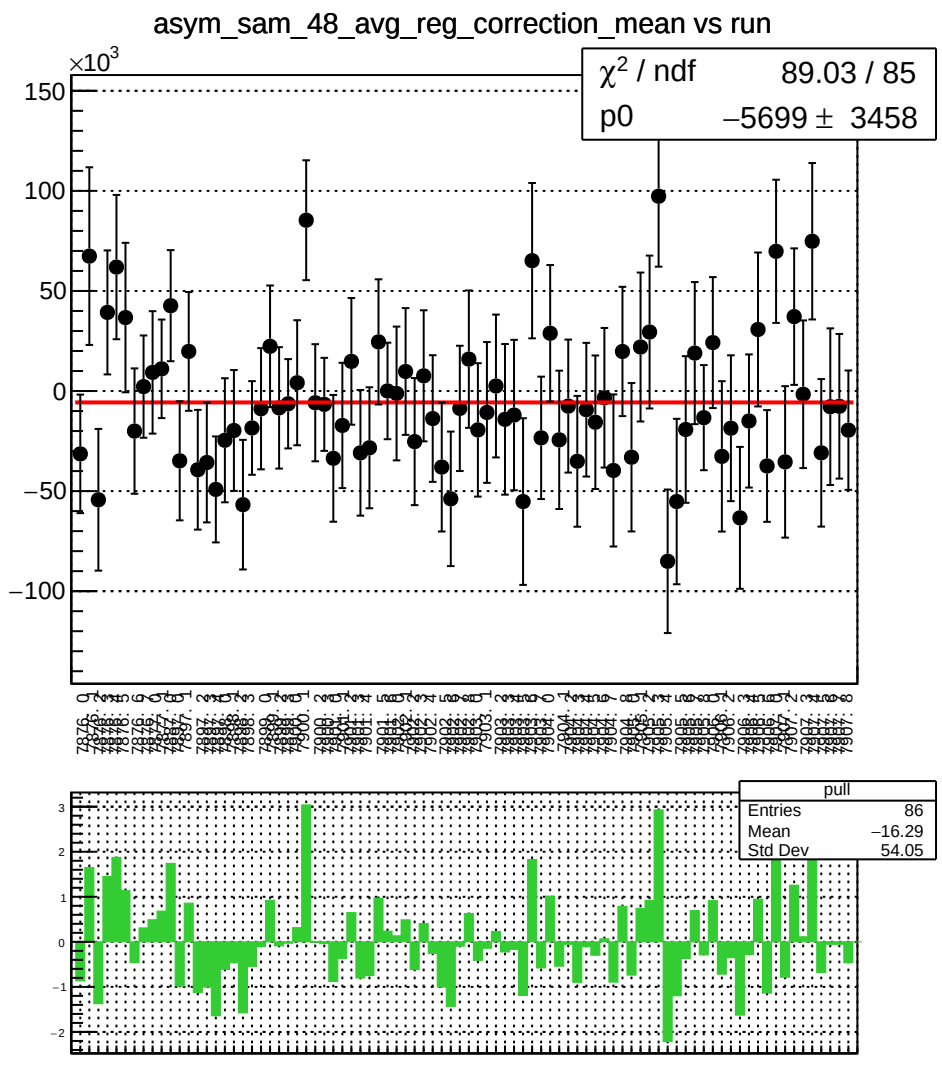

pull1D
Entries 86
Mean 0.06686
Std Dev 0.9705
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

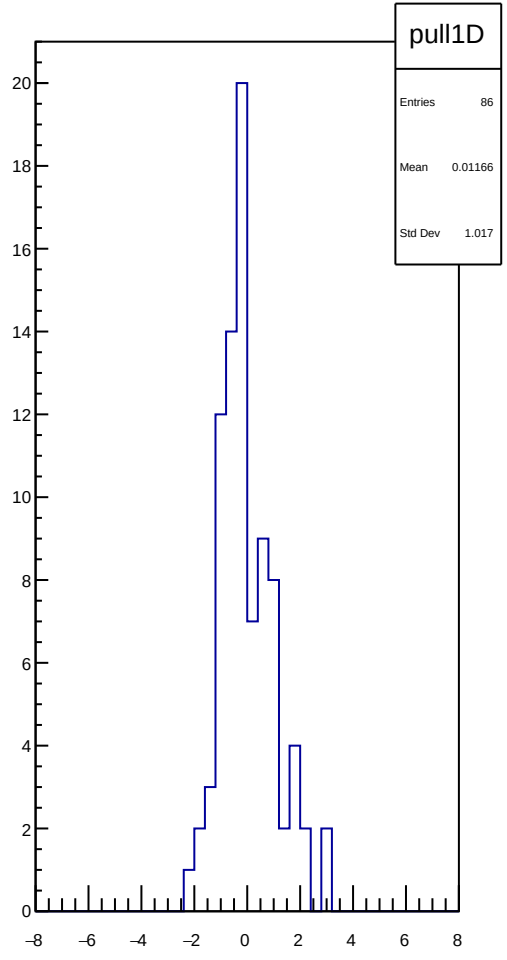

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.161e+06 / 85
p0 9.584e−11 ± 1.32e−13
3
2.5
2
1.5
1
0.5

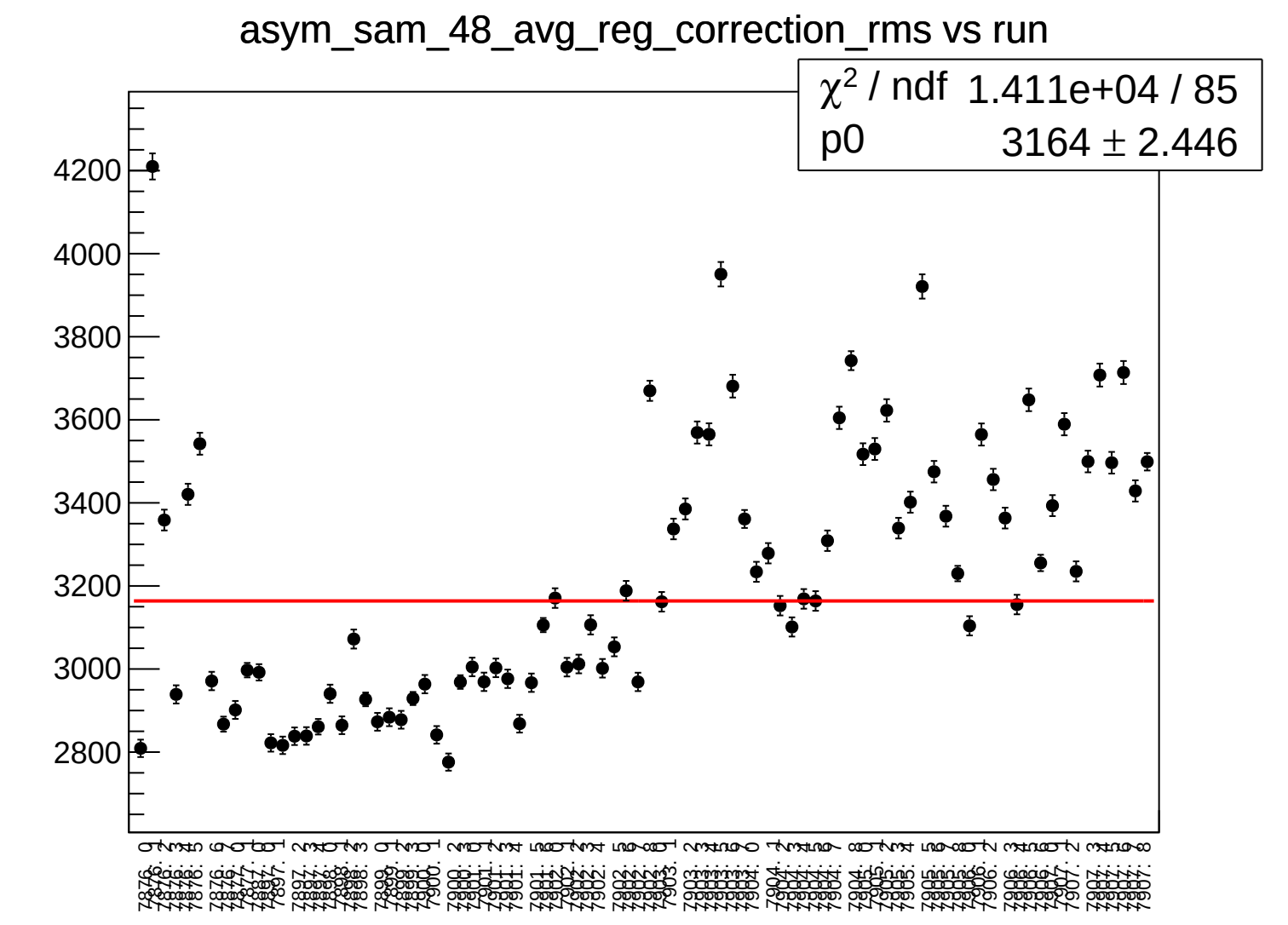

reg_asym_sam_48_avg_mean vs run
χ² / ndf 79.28 / 85
p0 −129.9 ± 248.1
pull
Entries 86
Mean −225.3
Std Dev 0

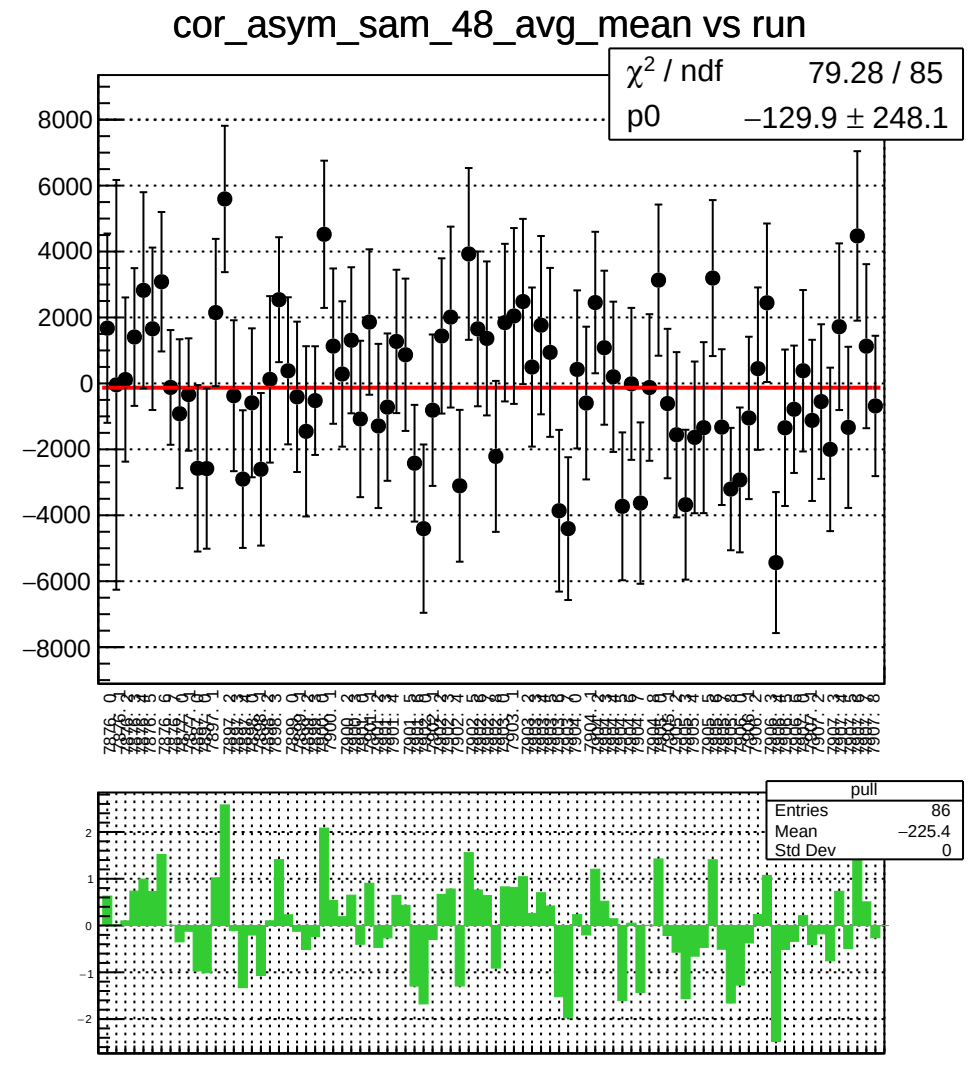

pull1D
Entries 86
Mean 0.01663
Std Dev 0.96

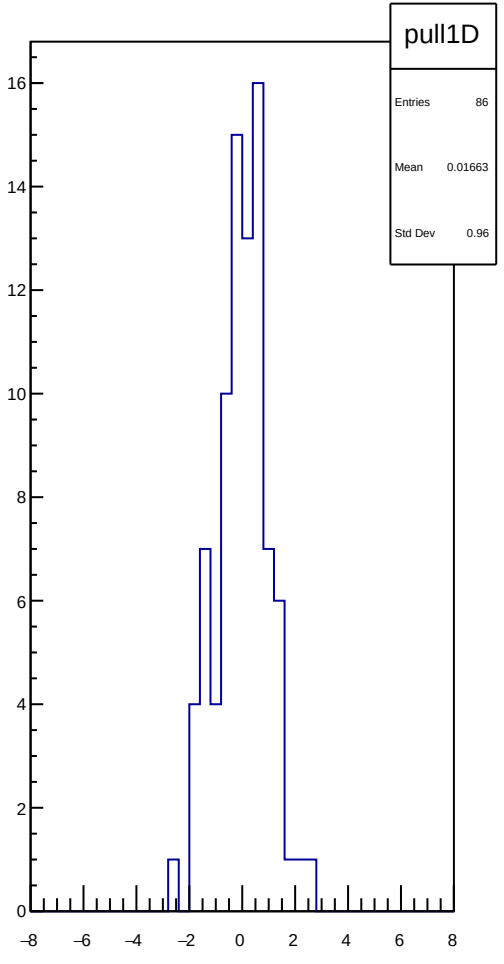

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.637e+04 / 85
p0 226.8 ± 0.1754
600
550
500
450
400
350
300
250
200

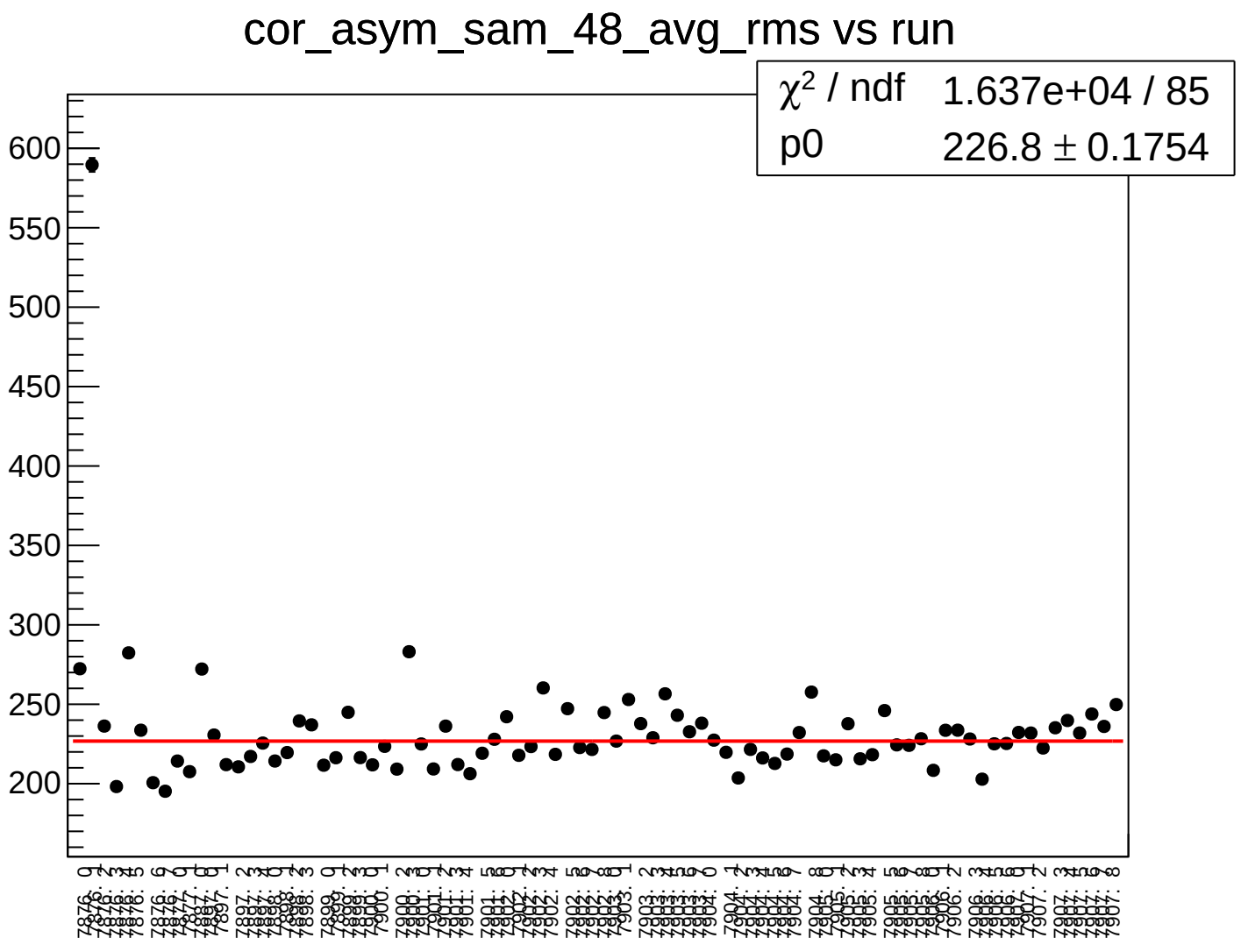

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.03 / 85
p0 −5699 ± 3458
150
100
50
0
−50
−100
pull
Entries 86
Mean −16.29
Std Dev 54.05
3
2
1
0
−1
−2

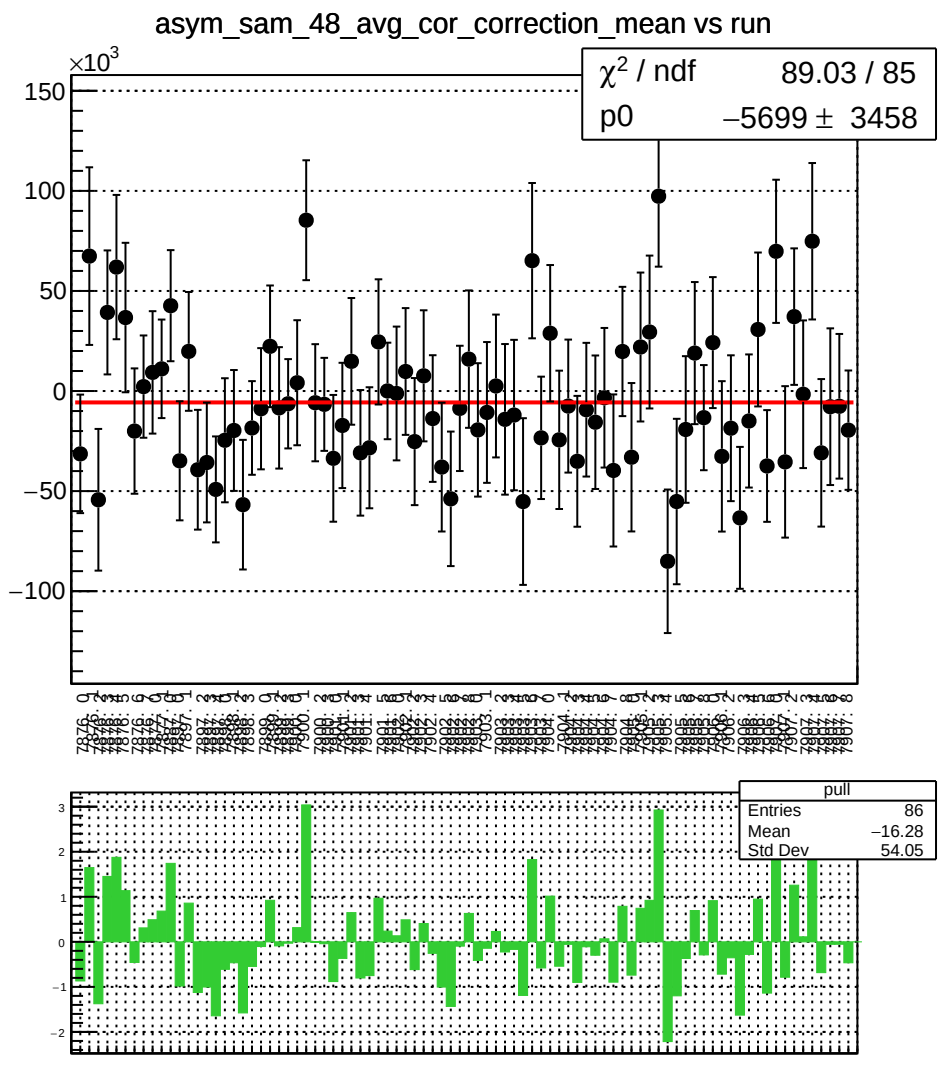

pull1D
Entries 86
Mean 0.01166
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

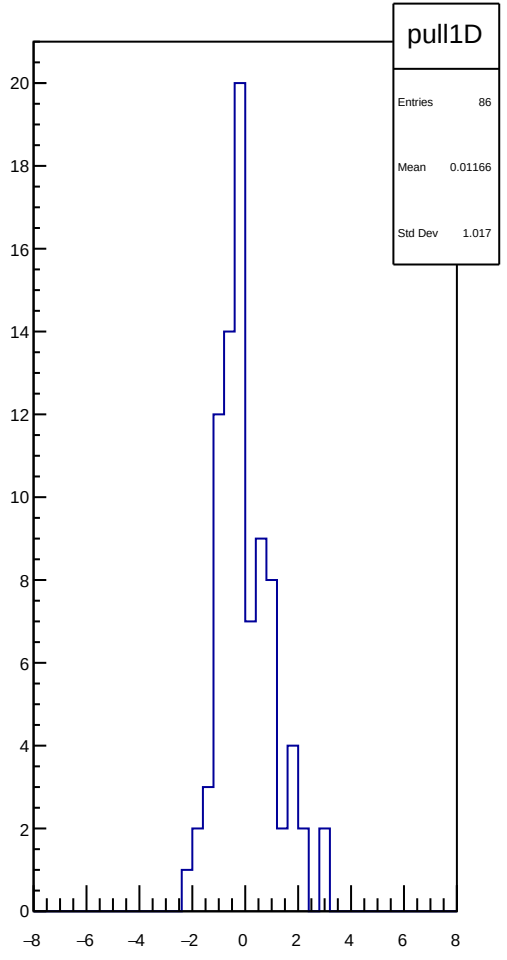

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1.411e+04 / 85
p0 3164 ± 2.446
4200
4000
3800
3600
3400
3200
3000
2800

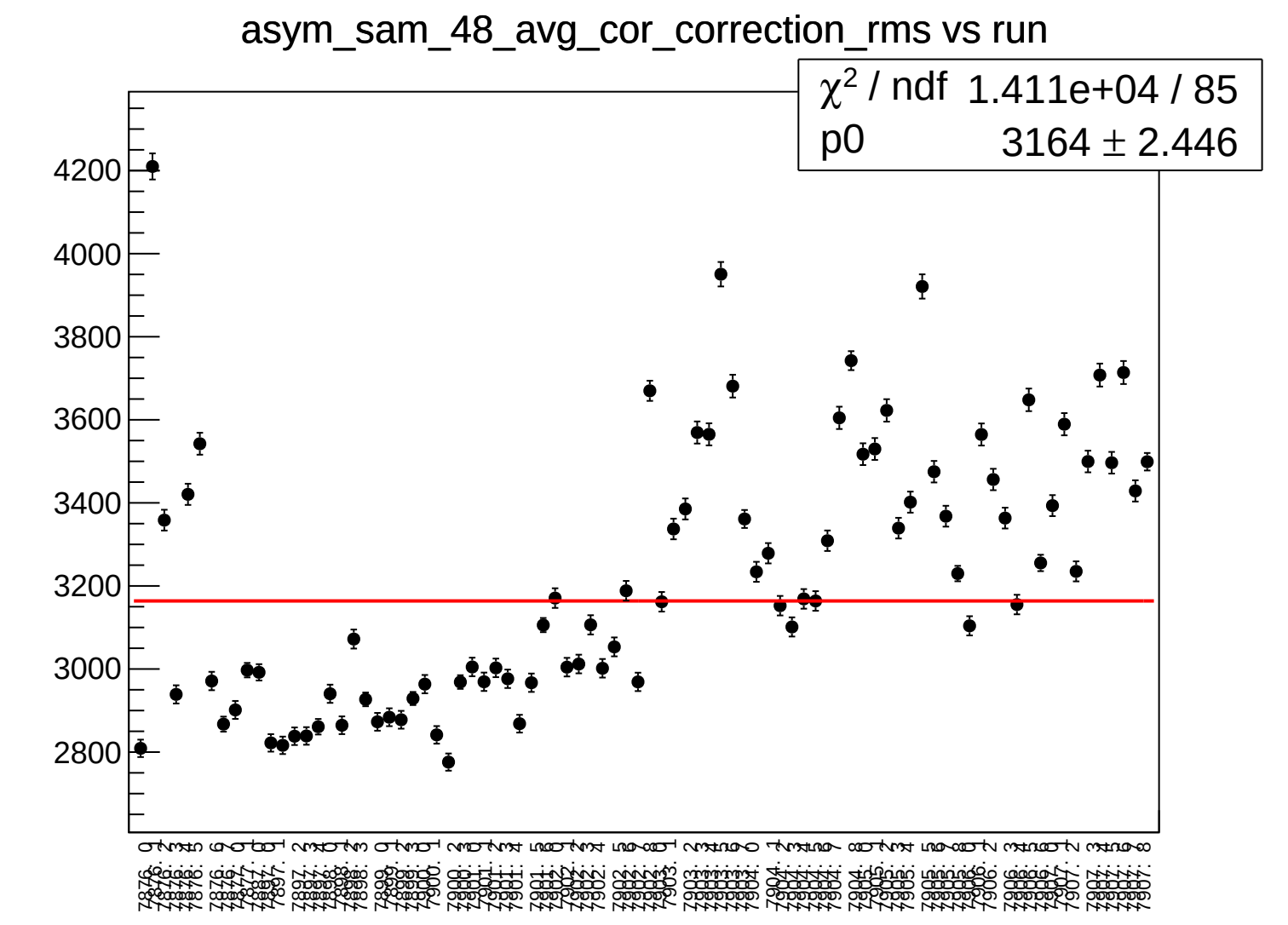

cor_asym_sam_48_avg_mean vs run
χ² / ndf 79.28 / 85
p0 −129.9 ± 248.1
pull
Entries 86
Mean −225.4
Std Dev 0

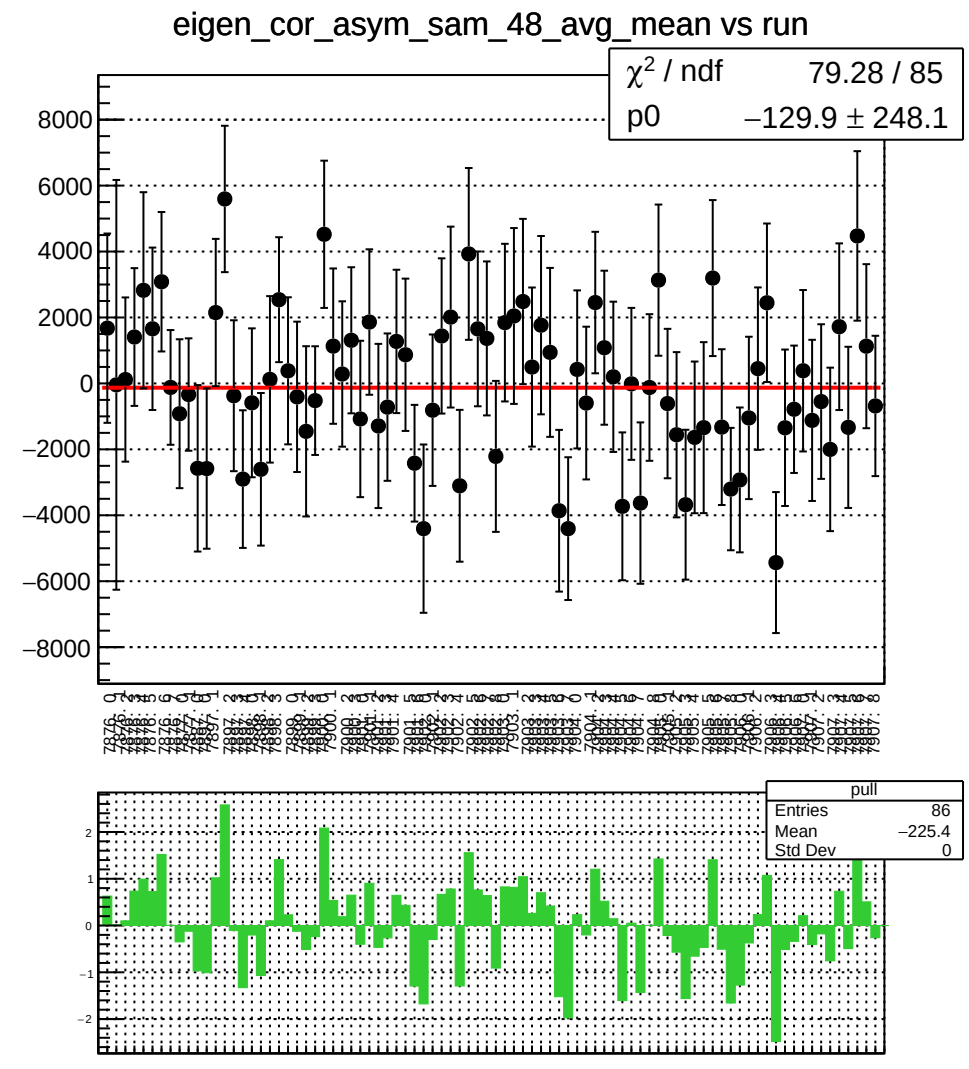

pull1D
Entries 86
Mean 0.01663
Std Dev 0.96

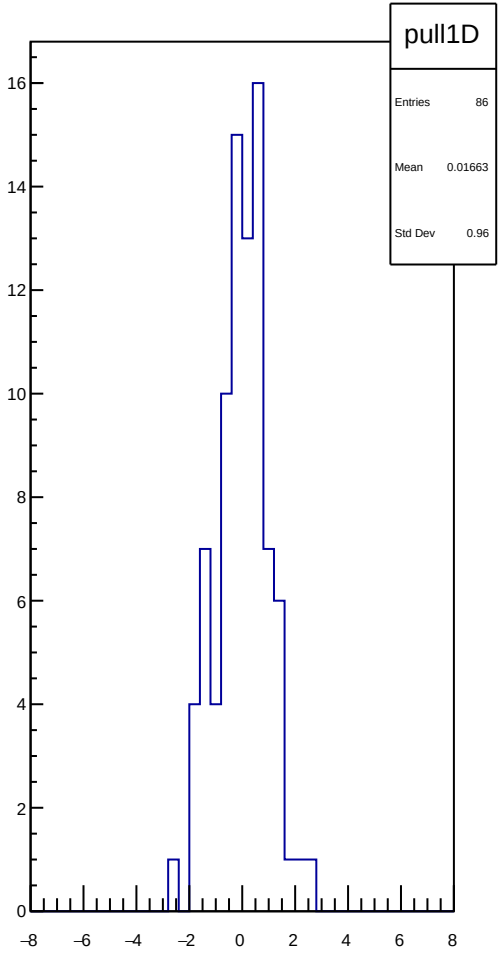

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.637e+04 / 85
p0 226.8 ± 0.1754
600
550
500
450
400
350
300
250
200

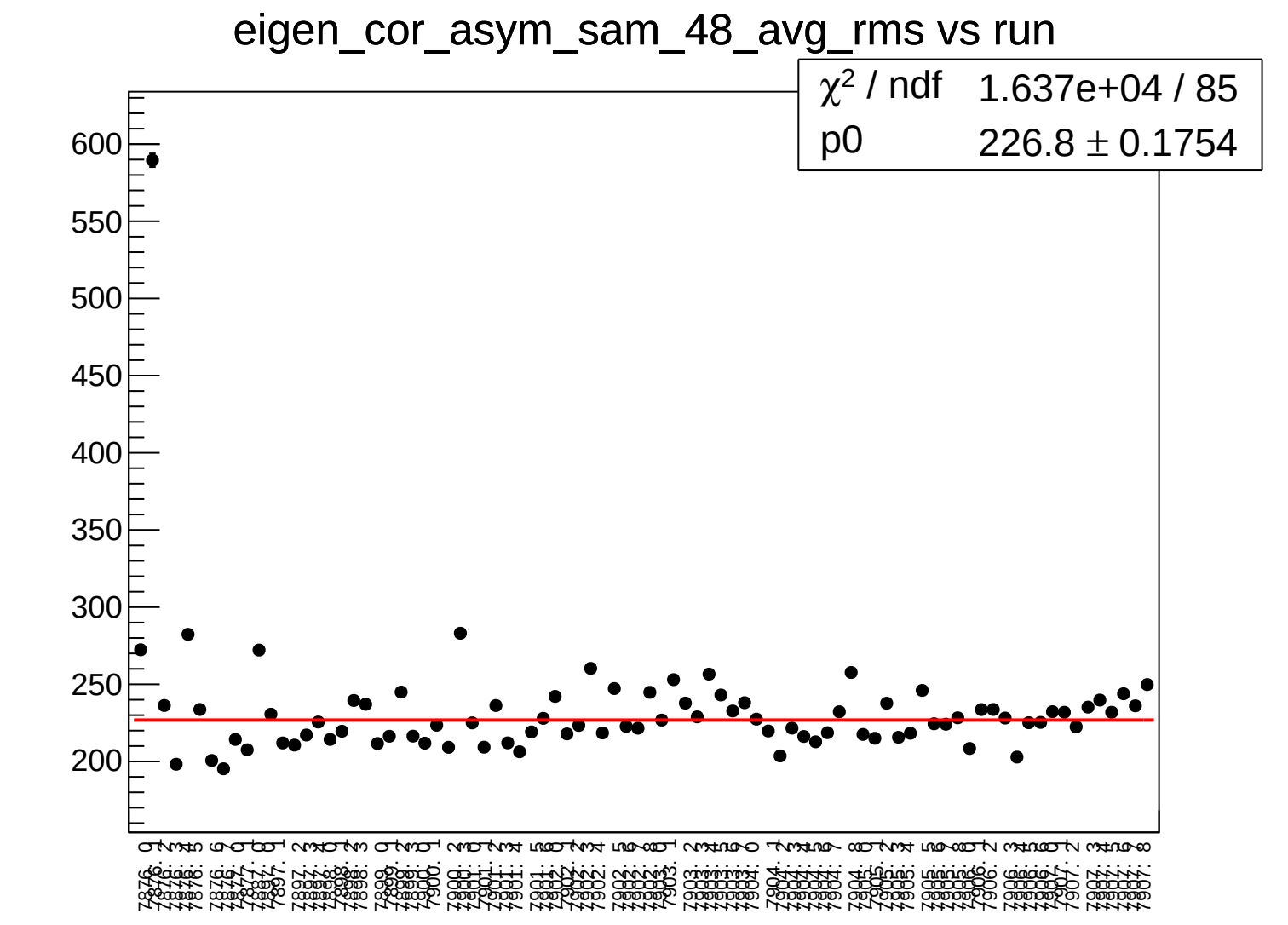

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.03 / 85
p0 −5699 ± 3458
150
100
50
0
−50
−100
pull
Entries 86
Mean −16.28
Std Dev 54.05
3
2
1
0
−1
−2

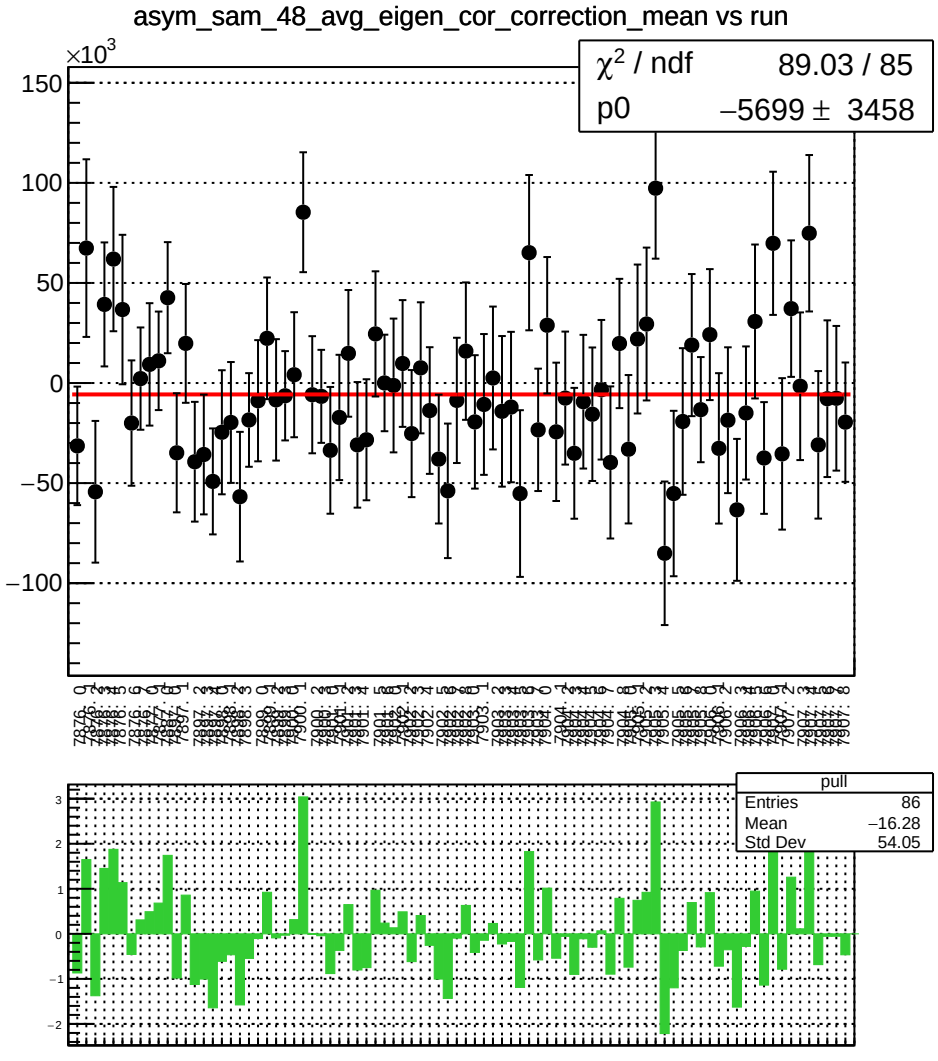

pull1D
Entries 86
Mean 0.01166
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

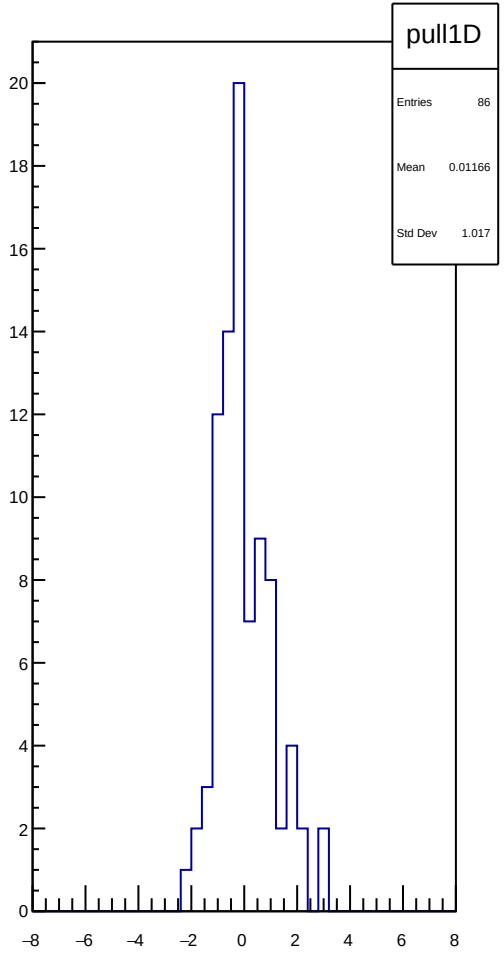

asym_sam_48_avg_cor_correction_rms vs run
χ^2 / ndf 1.411e+04 / 85
p0 3164 ± 2.446
4200
4000
3800
3600
3400
3200
3000
2800

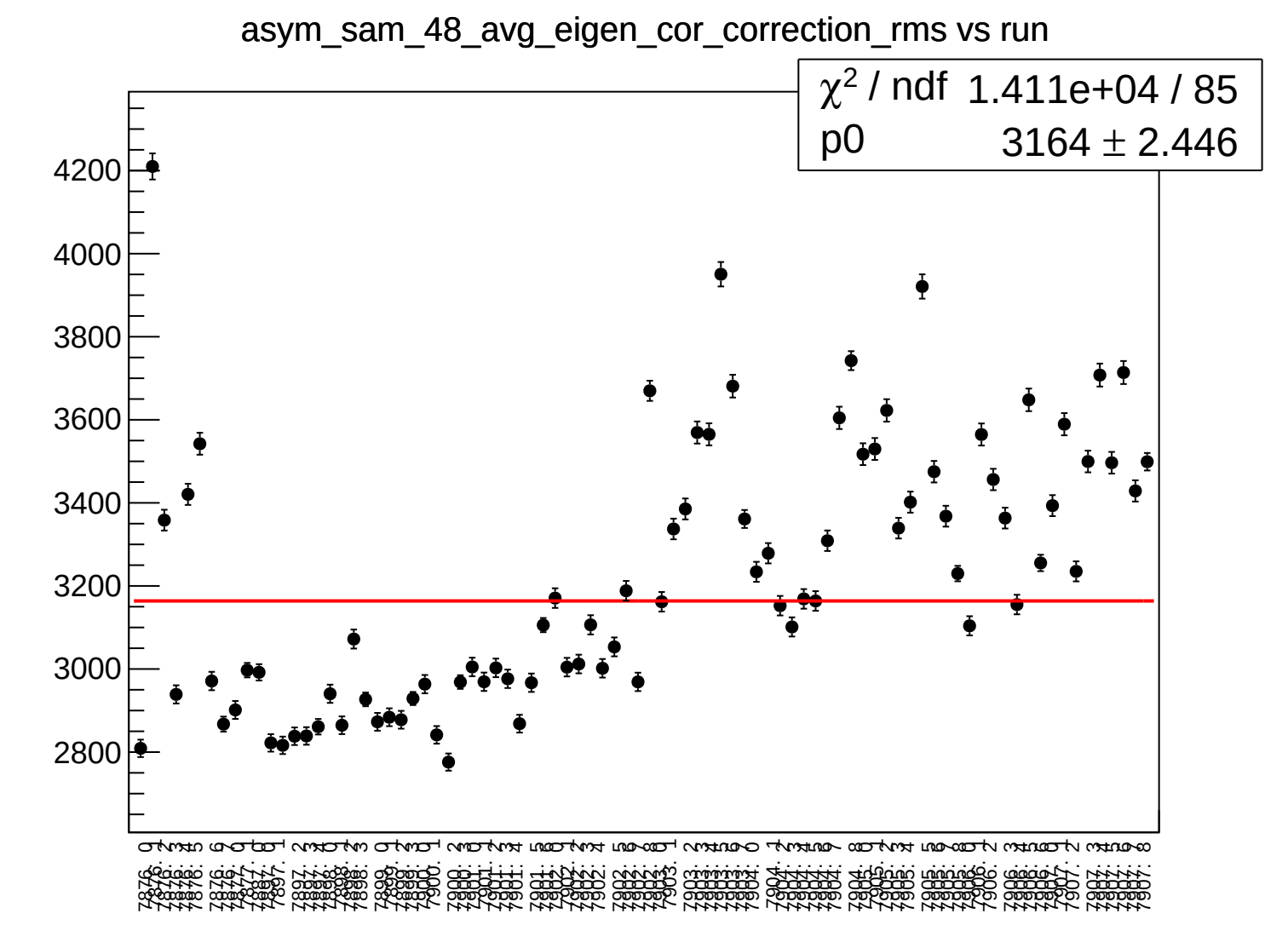

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 79.28 / 85
p0 −129.9 ± 248.1
pull
Entries 86
Mean −225.4
Std Dev 0

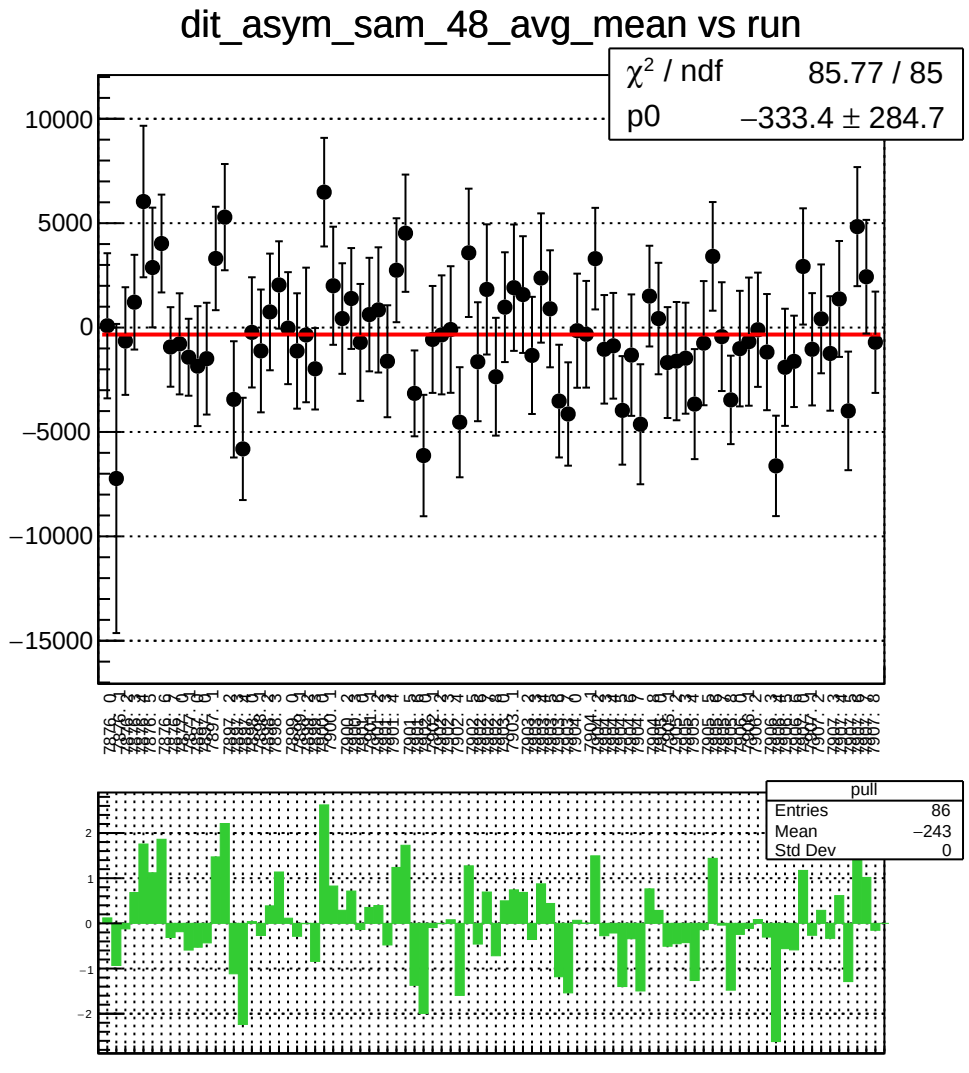

pull1D
Entries 86
Mean 0.01663
Std Dev 0.96

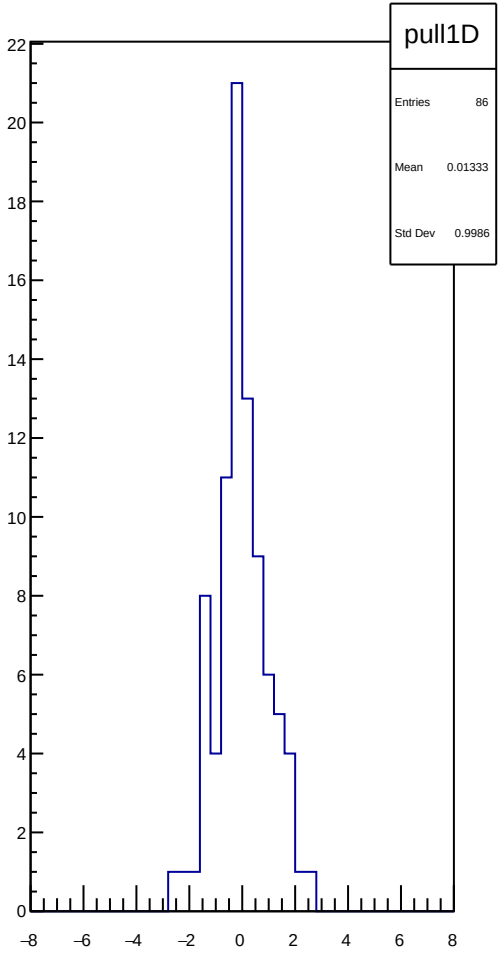

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.637e+04 / 85
p0 226.8 ± 0.1754
600
550
500
450
400
350
300
250
200

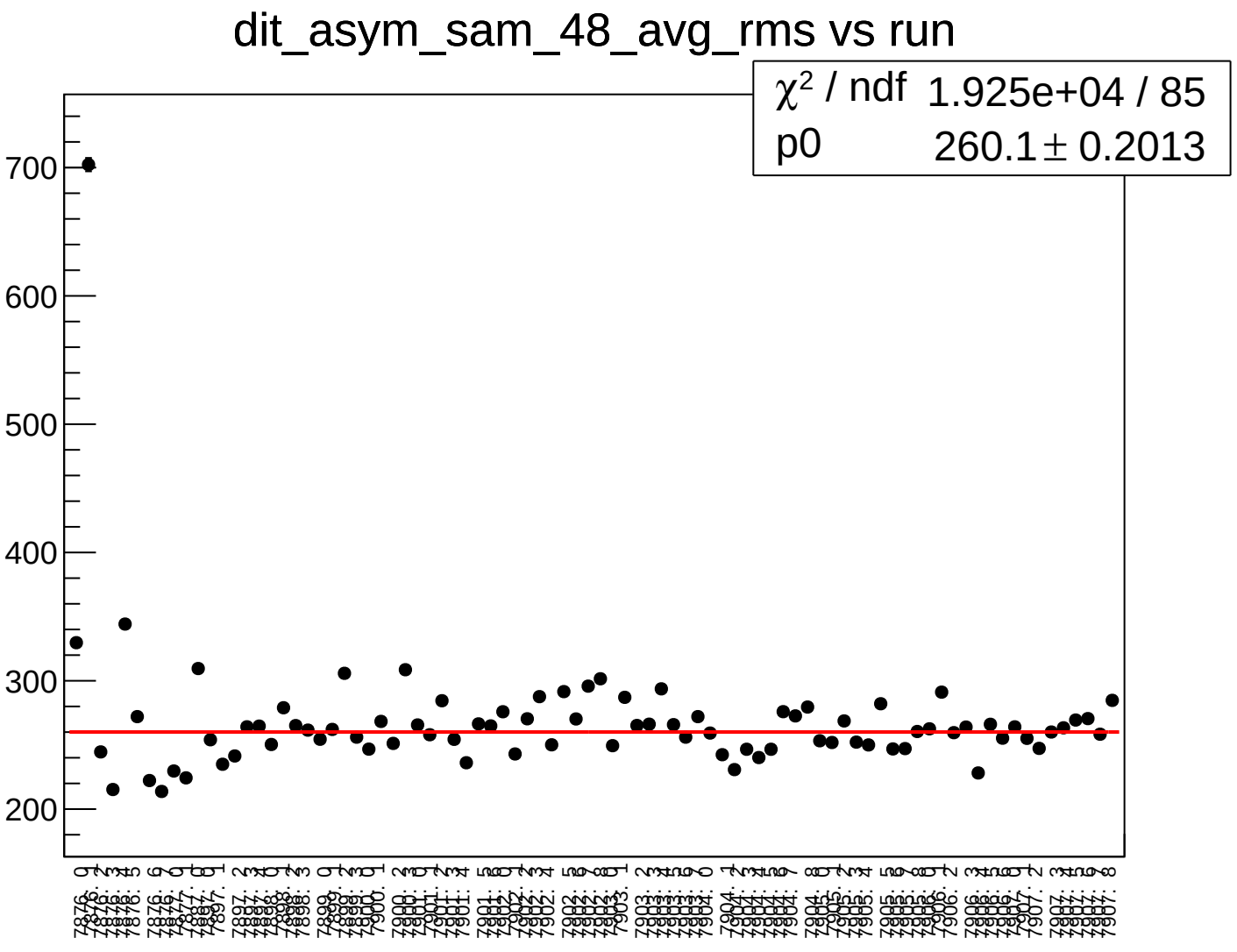

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.03 / 85
p0 −5699 ± 3458
150
100
50
0
−50
−100
pull
Entries 86
Mean −16.28
Std Dev 54.05
3
2
1
0
−1
−2

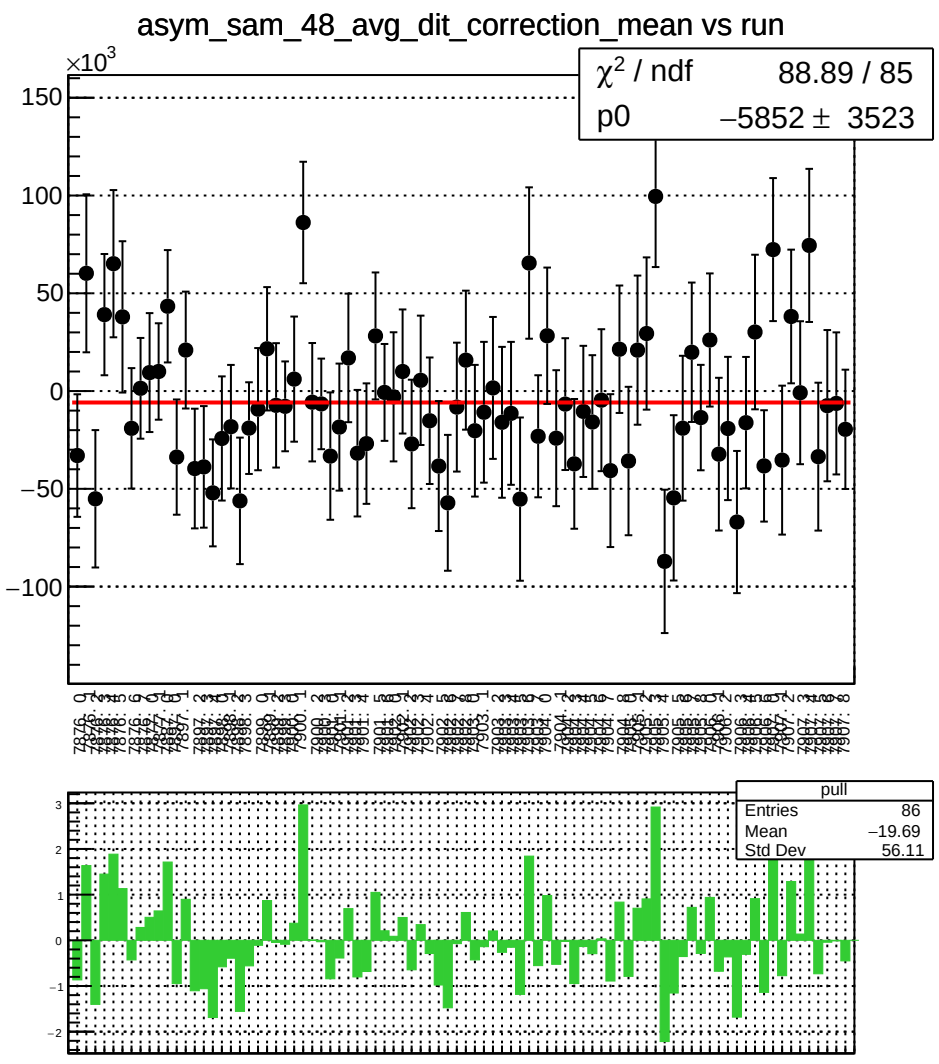

pull1D
Entries 86
Mean 0.01166
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

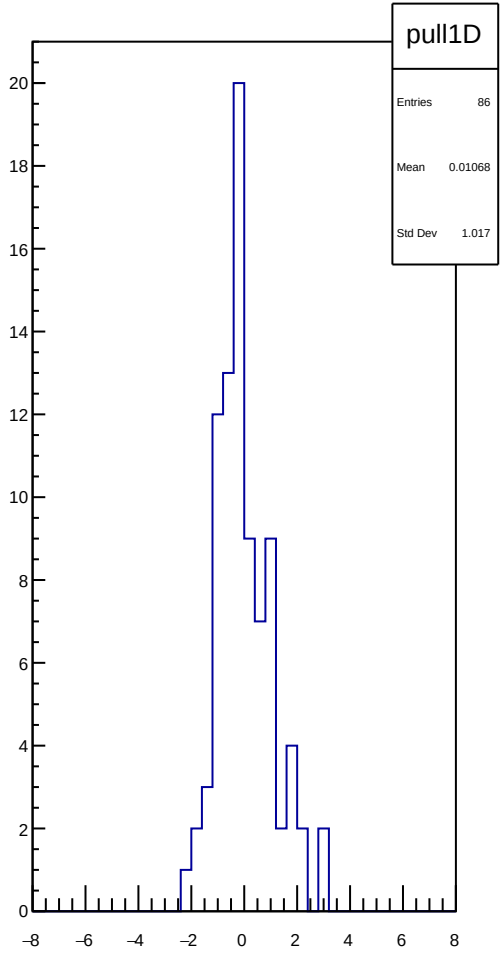

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.411e+04 / 85
p0 3164 ± 2.446
4200
4000
3800
3600
3400
3200
3000
2800

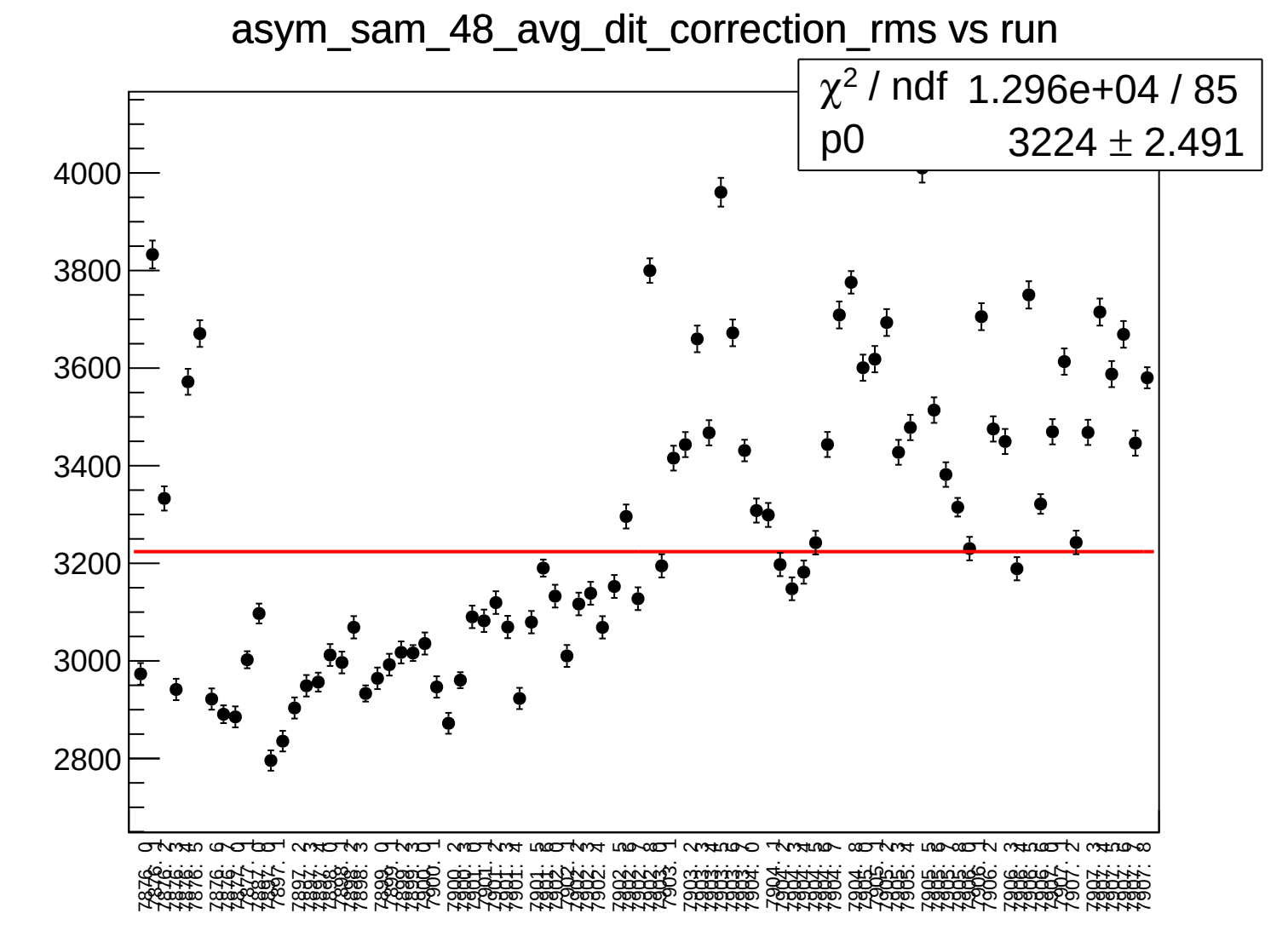

dit_asym_sam_48_avg_mean vs run
χ² / ndf 85.77 / 85
p0 −333.4 ± 284.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −243
Std Dev 0
2
1
0
−1
−2

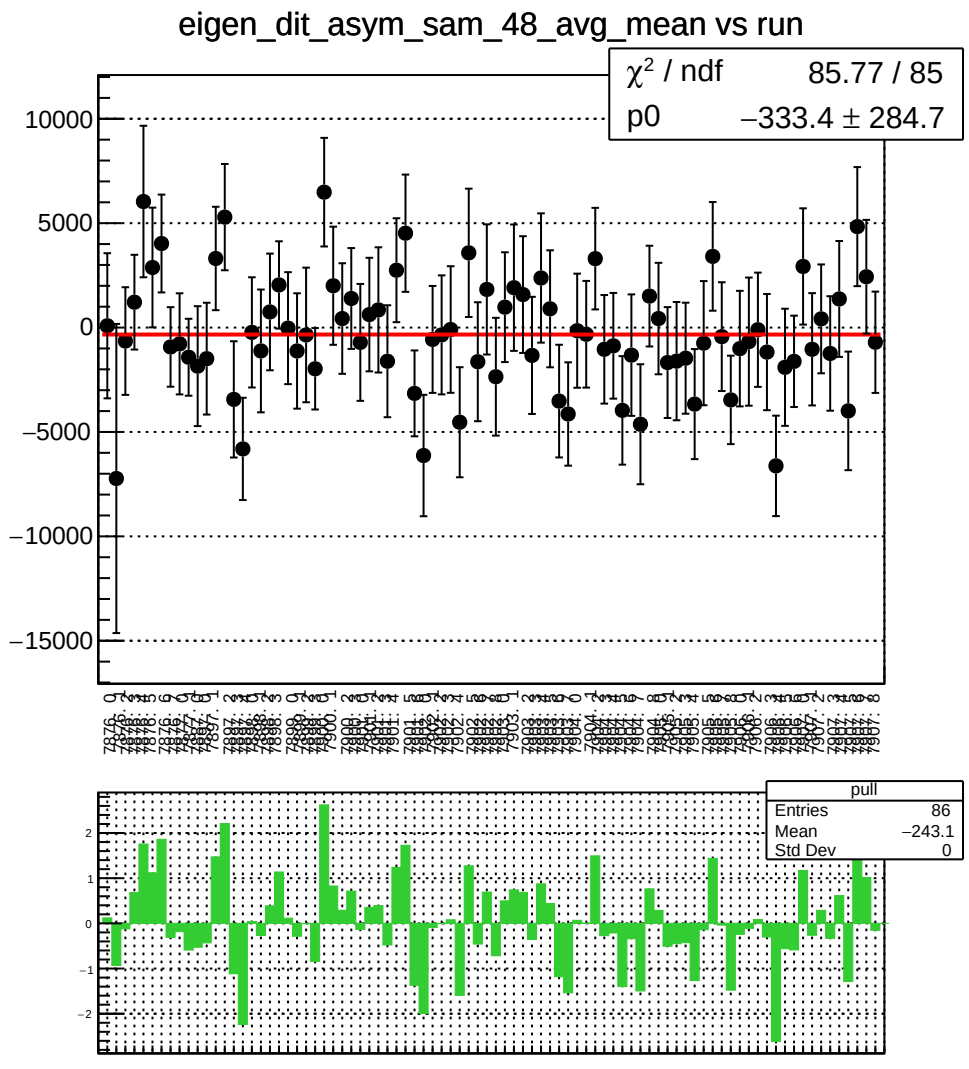

pull1D
Entries 86
Mean 0.01333
Std Dev 0.9986
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

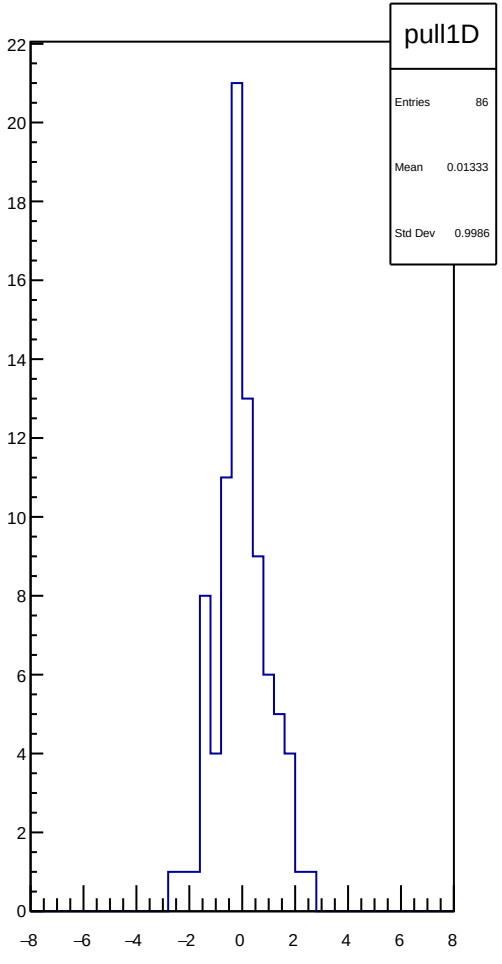

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.925e+04 / 85
p0 260.1 ± 0.2013
700
600
500
400
300
200

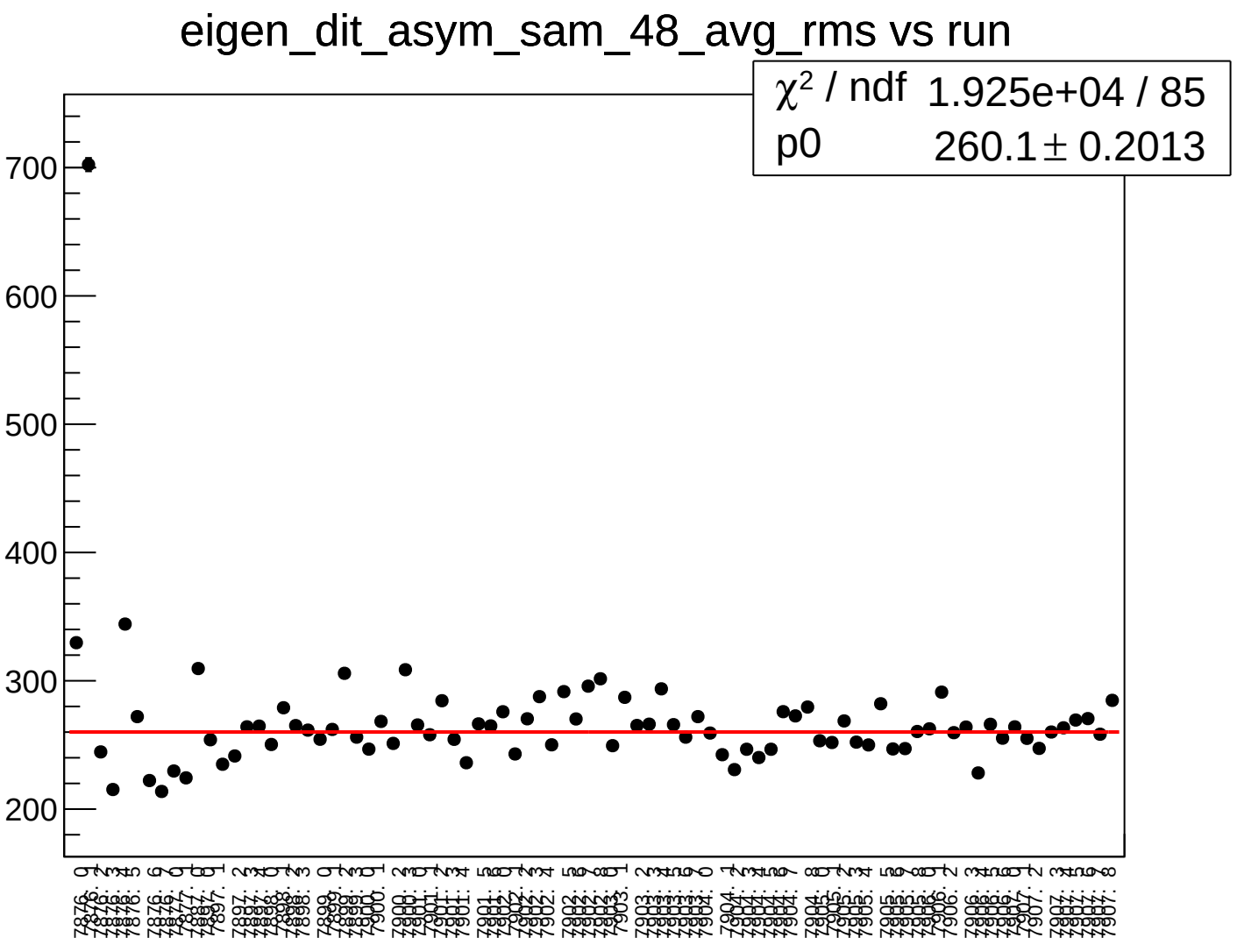

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.89 / 85
p0 −5852 ± 3523
150
100
50
0
−50
−100
pull
Entries 86
Mean −19.69
Std Dev 56.11
3
2
1
0
−1
−2

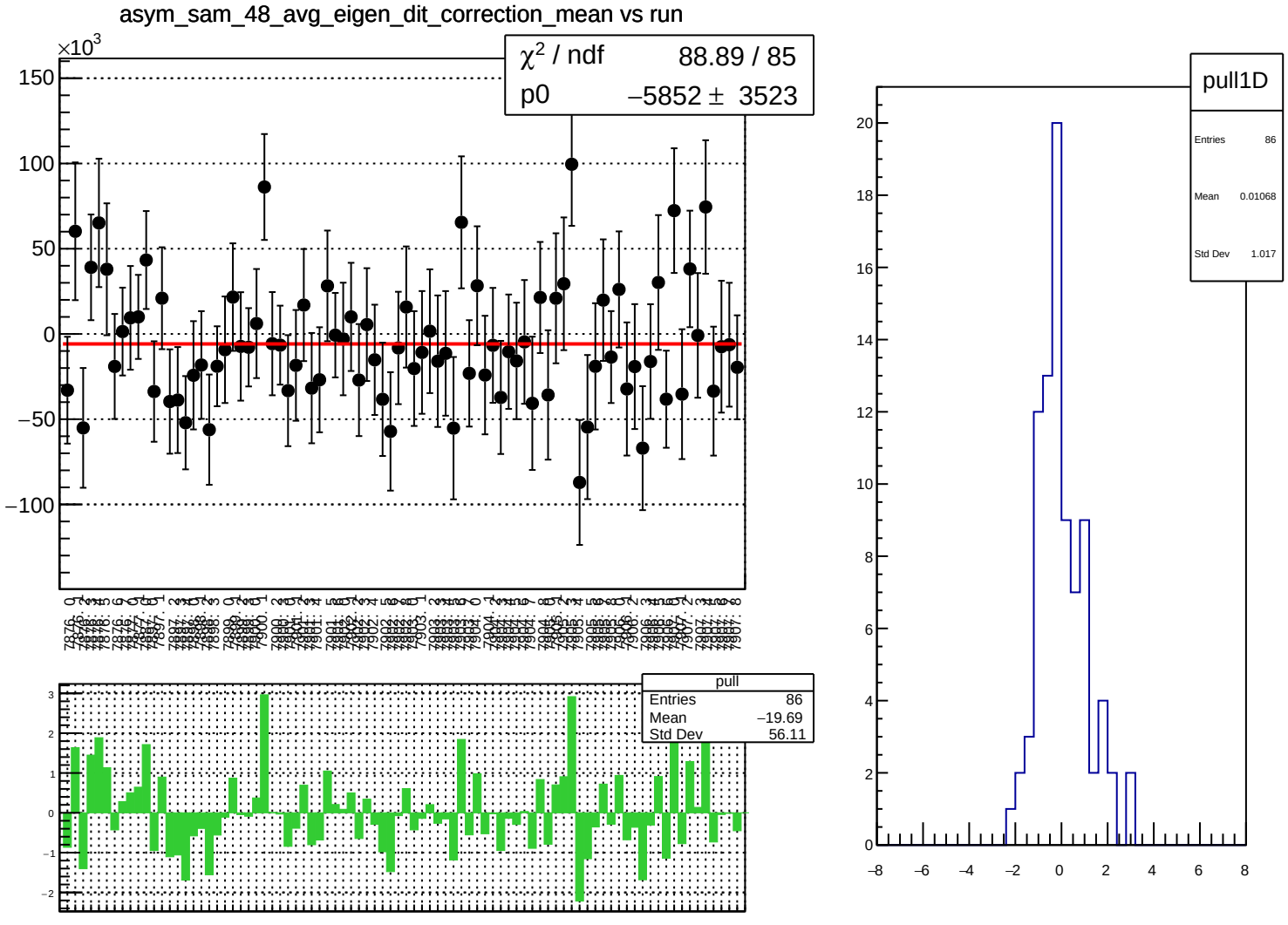

pull1D
Entries 86
Mean 0.01068
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

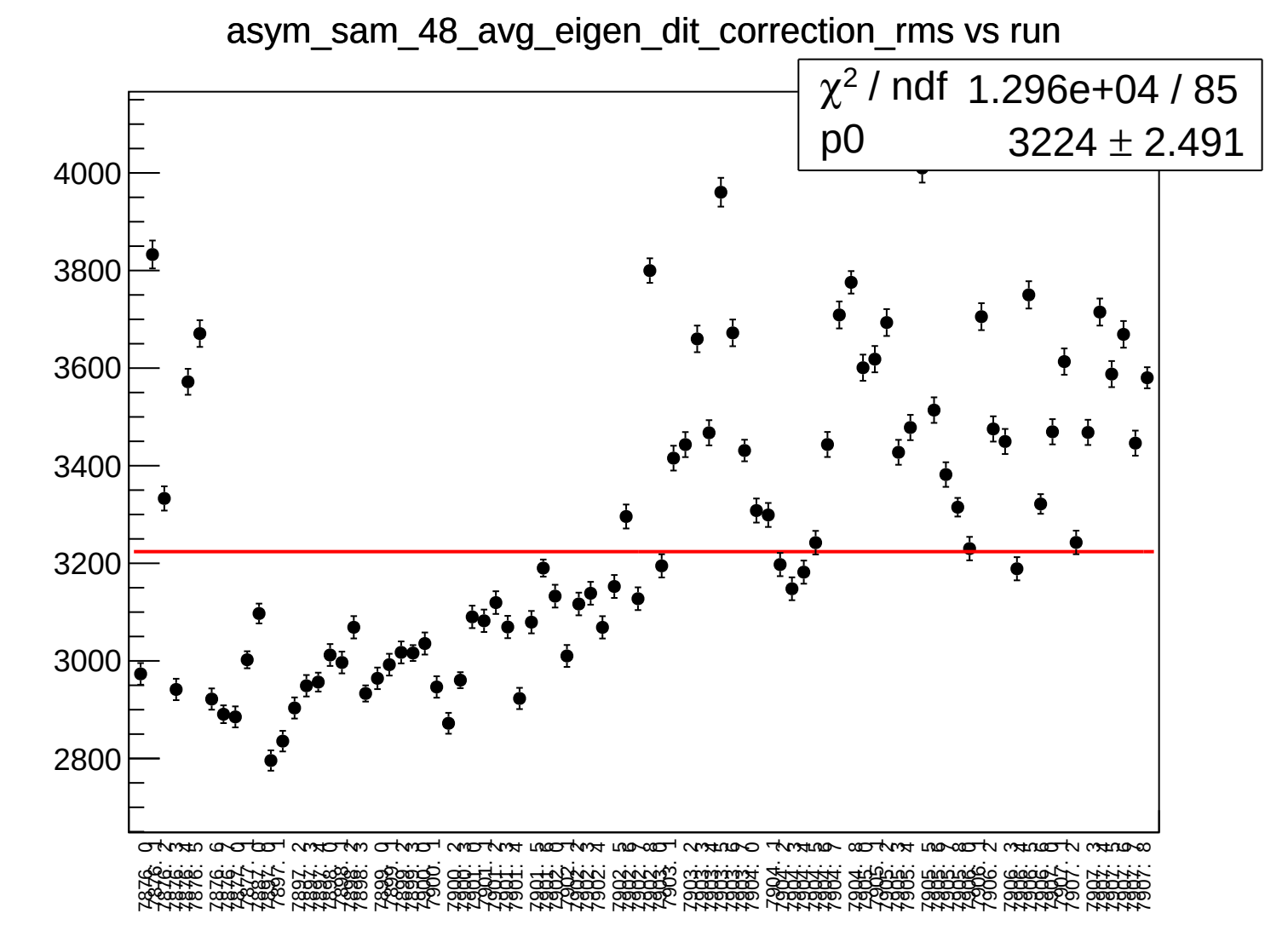

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1.296e+04 / 85
p0 3224 ± 2.491
4000
3800
3600
3400
3200
3000
2800

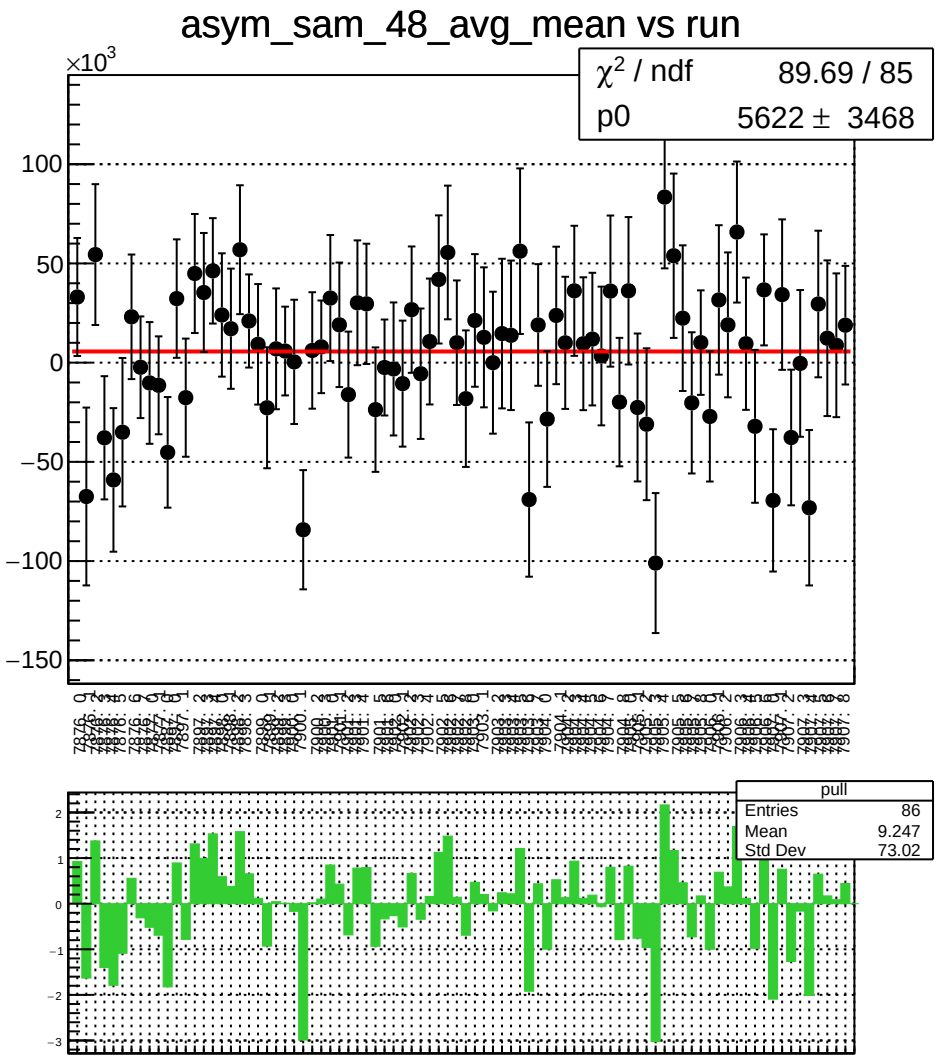

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 85.77 / 85
p0 −333.4 ± 284.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −243.1
Std Dev 0
2
1
0
−1
−2

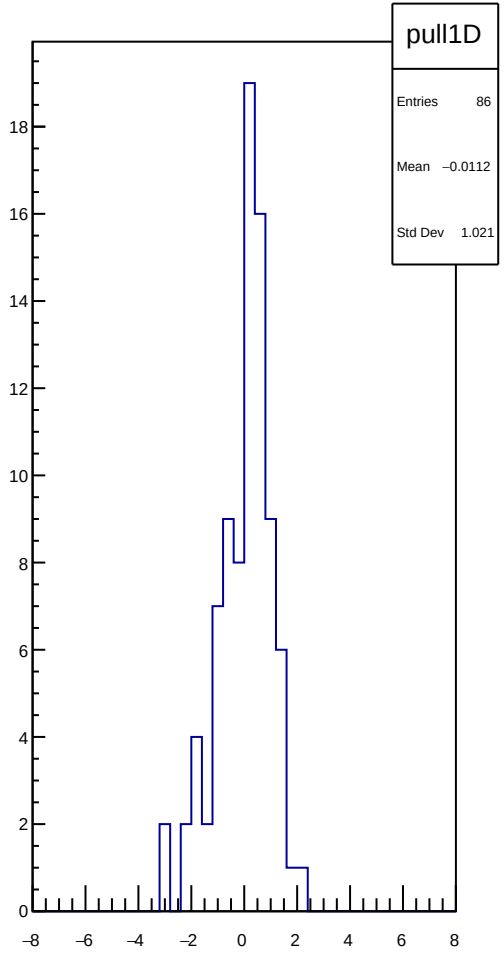

pull1D
Entries 86
Mean 0.01333
Std Dev 0.9986
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

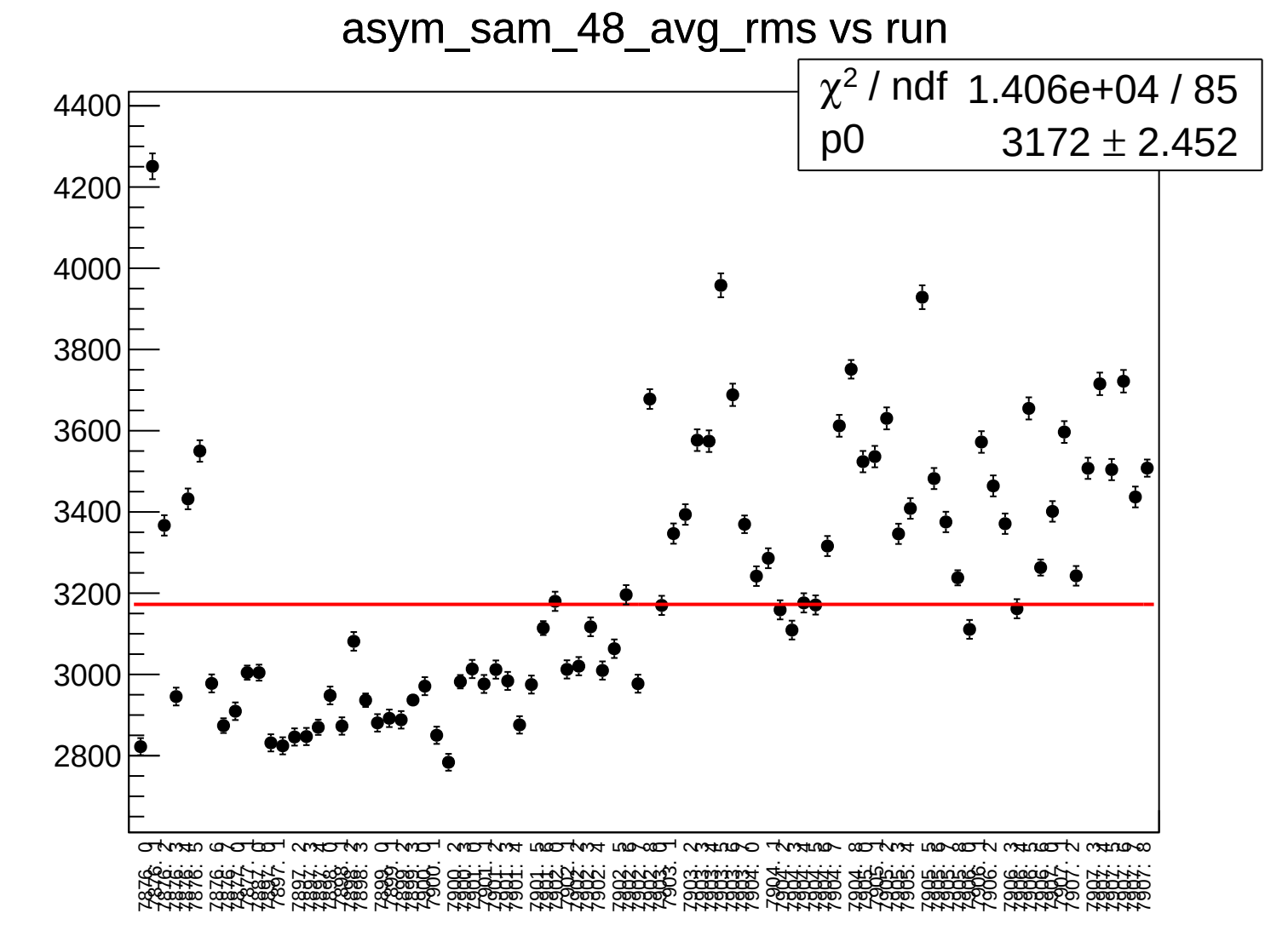

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.925e+04 / 85
p0 260.1 ± 0.2013
700
600
500
400
300
200

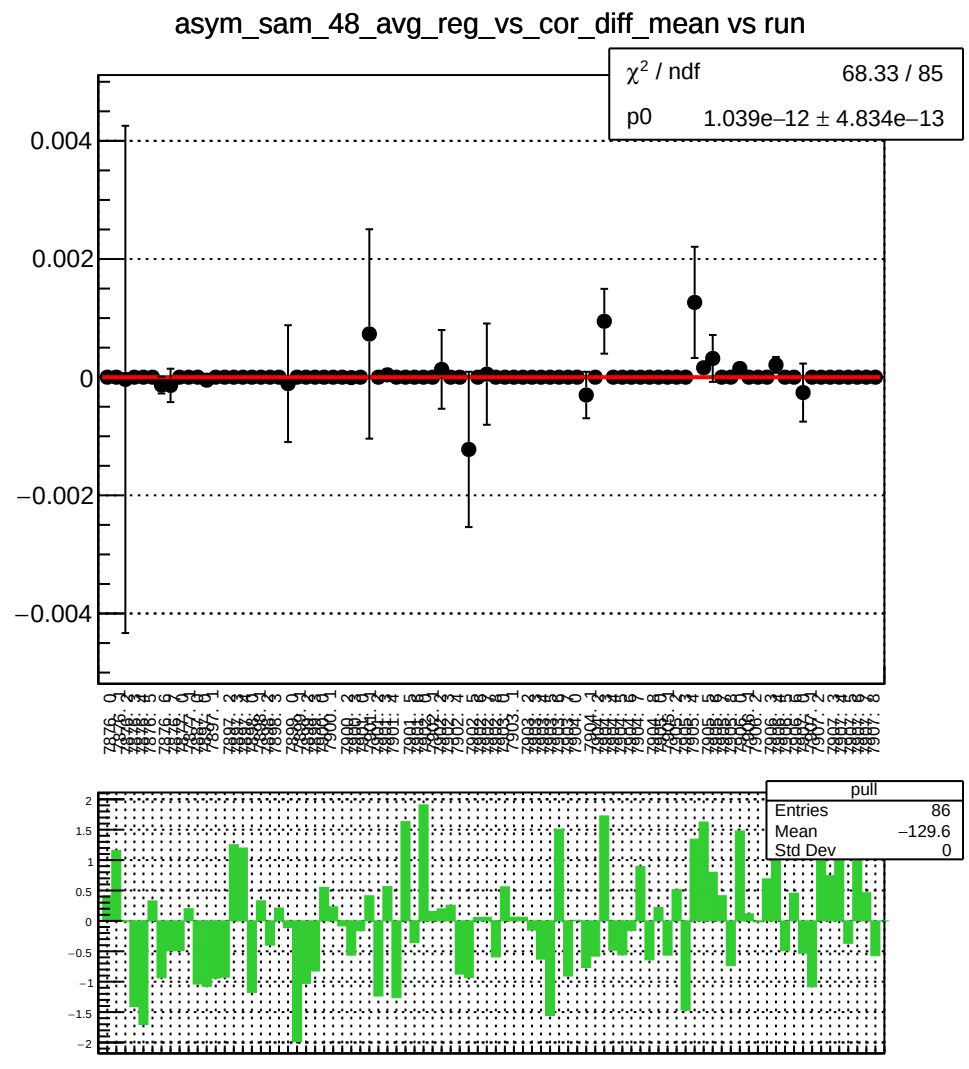

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.89 / 85
p0 −5852 ± 3523
150
100
50
0
−50
−100
pull
Entries 86
Mean −19.69
Std Dev 56.11
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01068
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

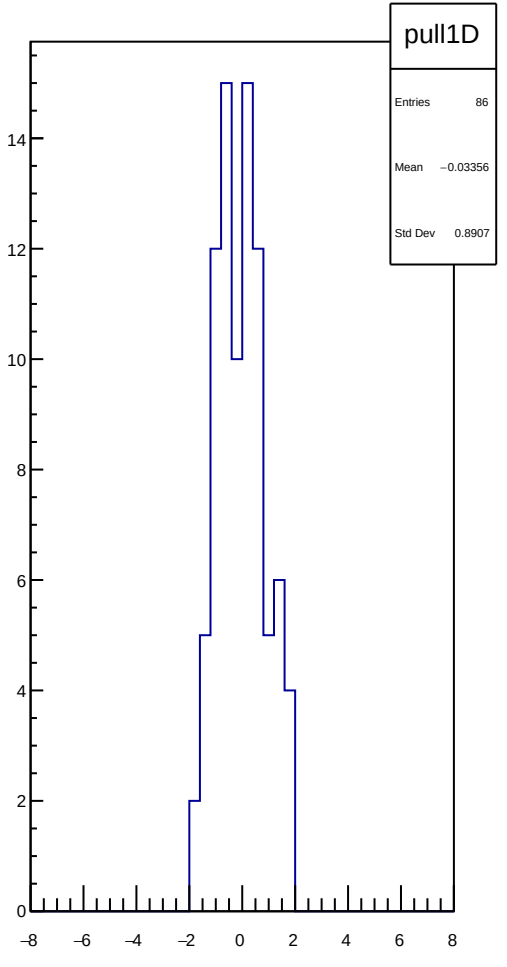

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.296e+04 / 85
p0 3224 ± 2.491
4000
3800
3600
3400
3200
3000
2800

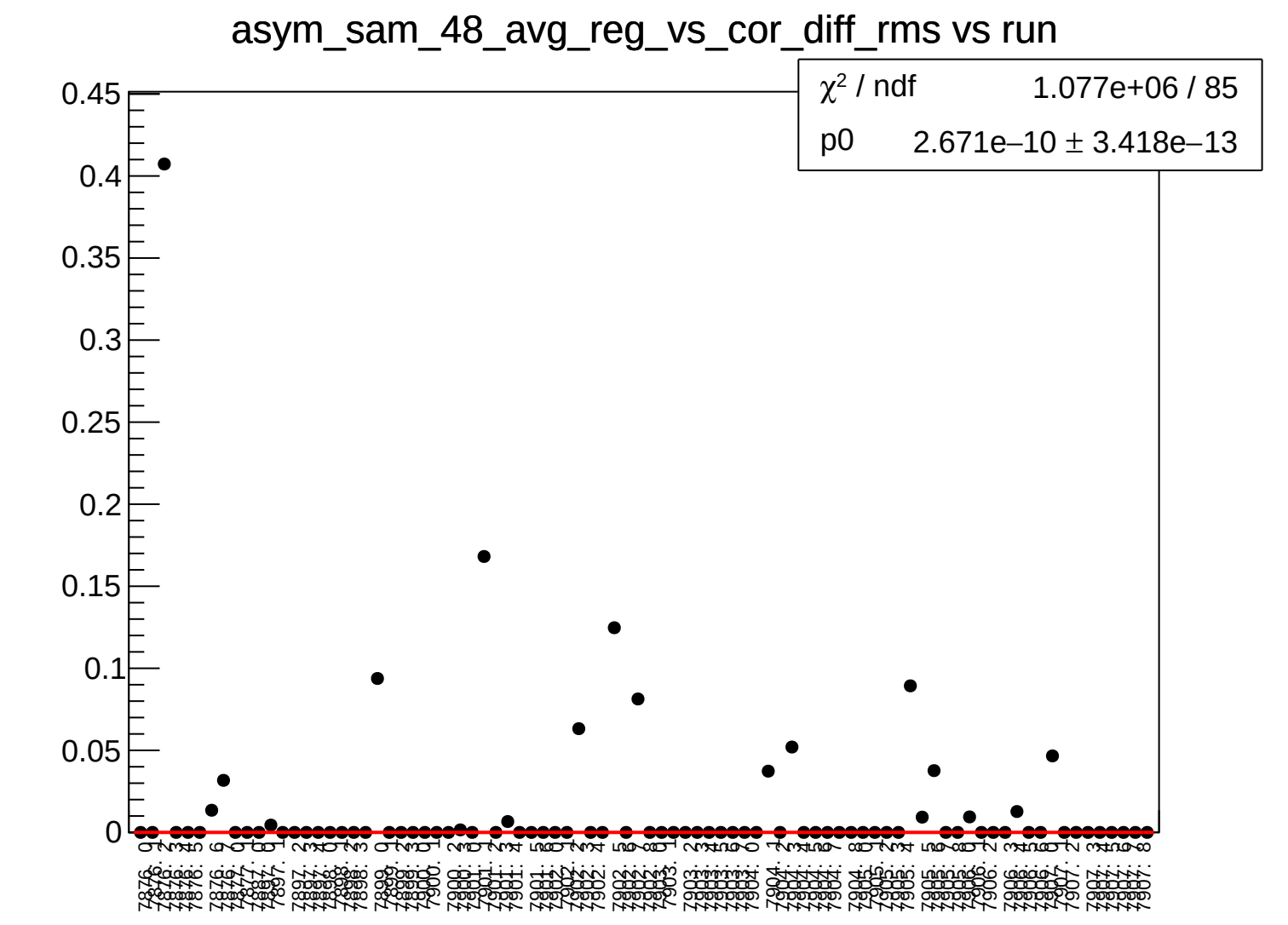

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 89.69 / 85
p0 5622 ± 3468
100
50
0
−50
−100
−150
pull
Entries 86
Mean 9.247
Std Dev 73.02
2
1
0
−1
−2
−3

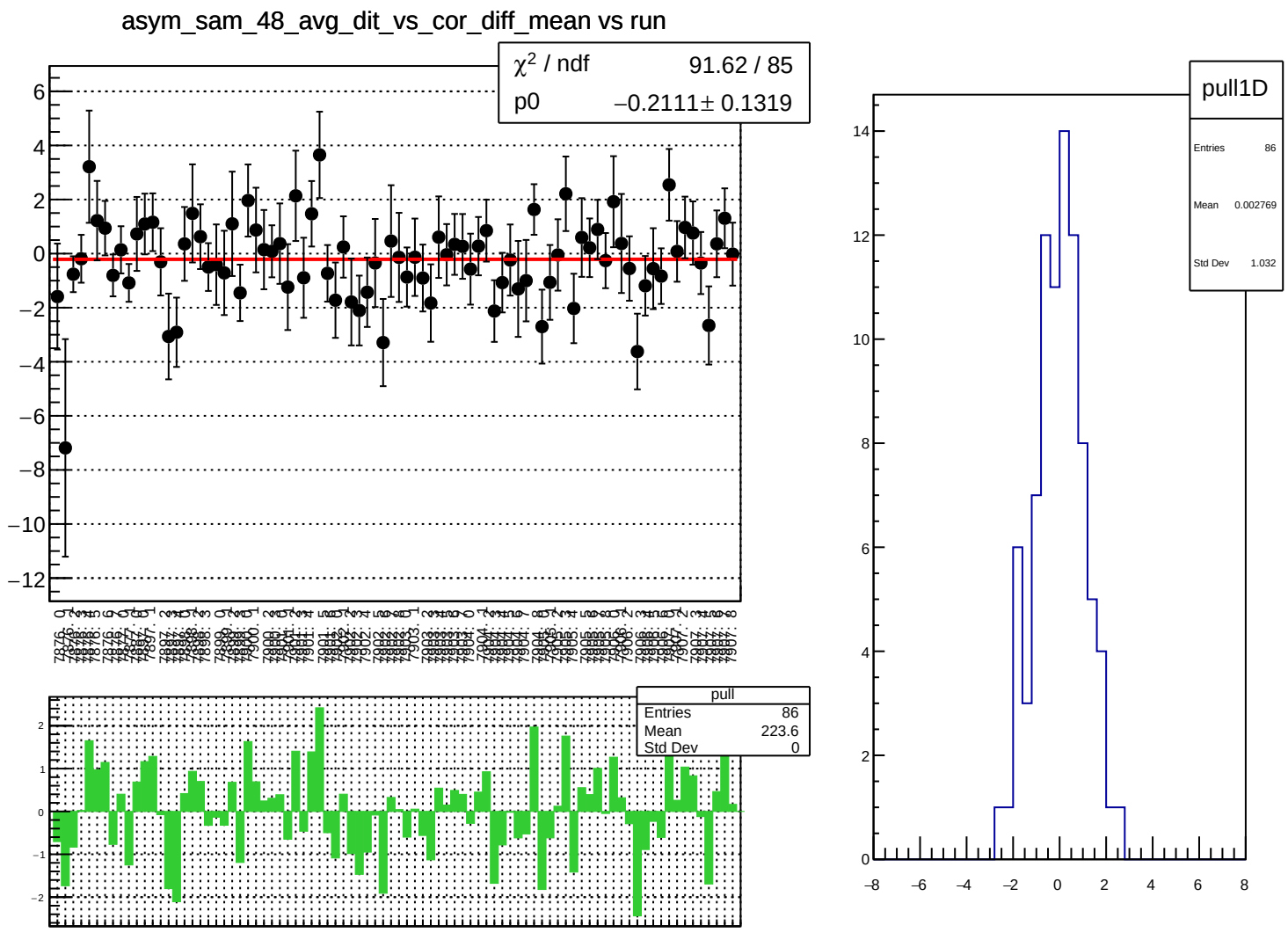

pull1D
Entries 86
Mean −0.0112
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

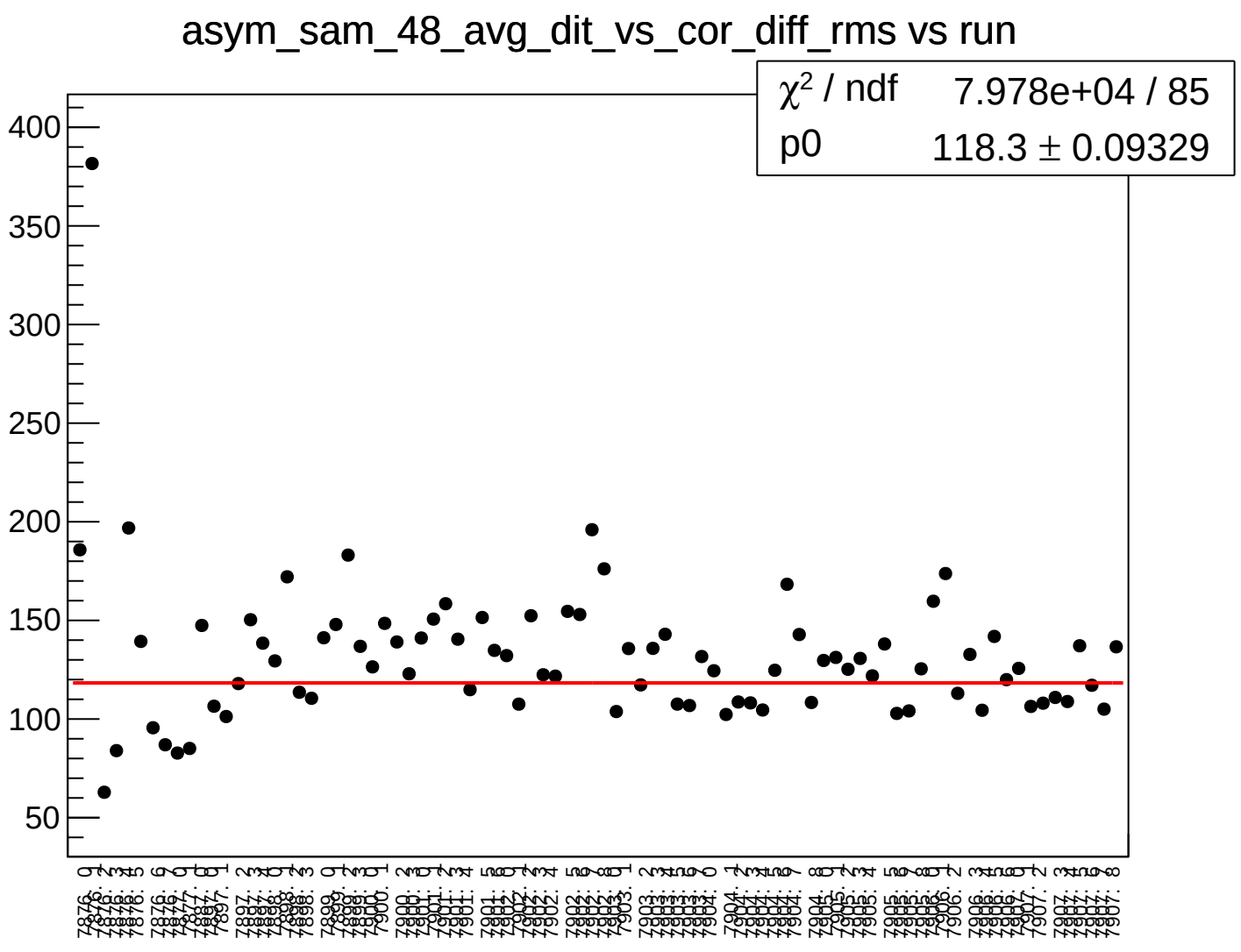

asym_sam_48_avg_rms vs run
χ^2 / ndf 1.406e+04 / 85
p0 3172 ± 2.452
4400
4200
4000
3800
3600
3400
3200
3000
2800

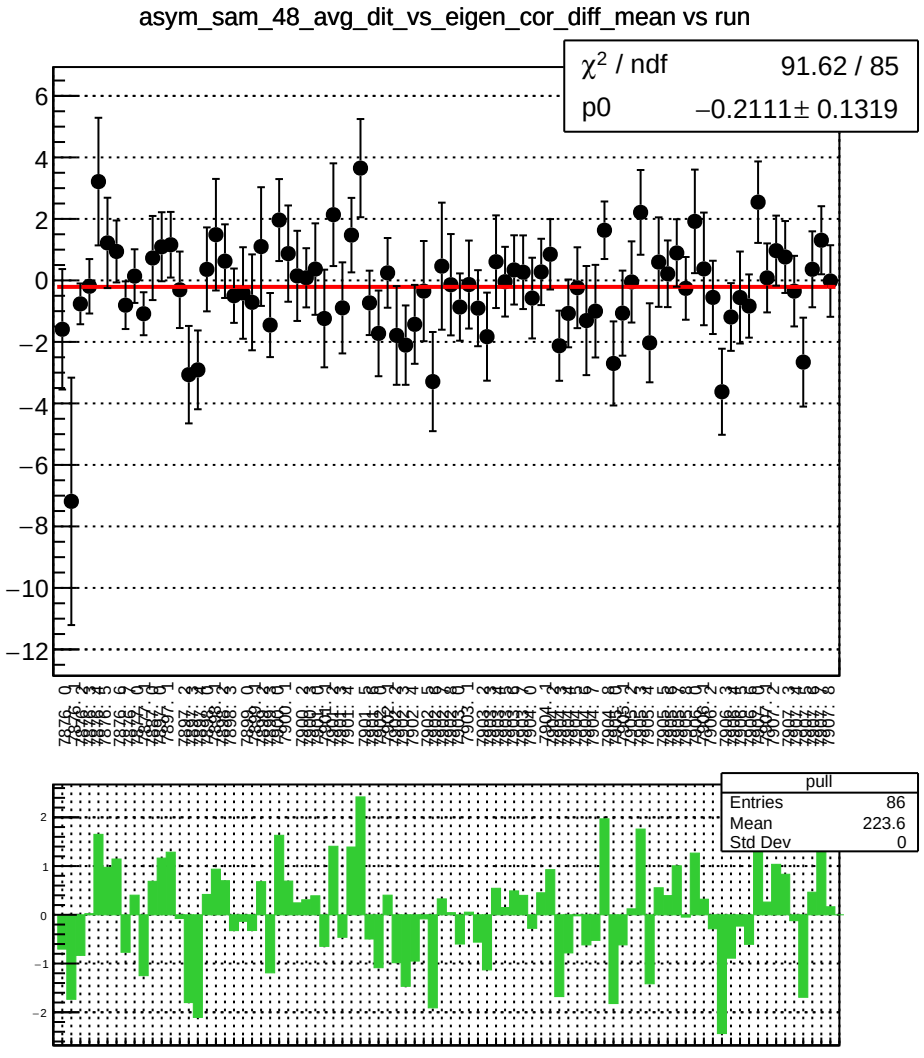

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.33 / 85
p0 1.039e−12 ± 4.834e−13
0.004
0.002
0
−0.002
−0.004
pull
Entries 86
Mean −129.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

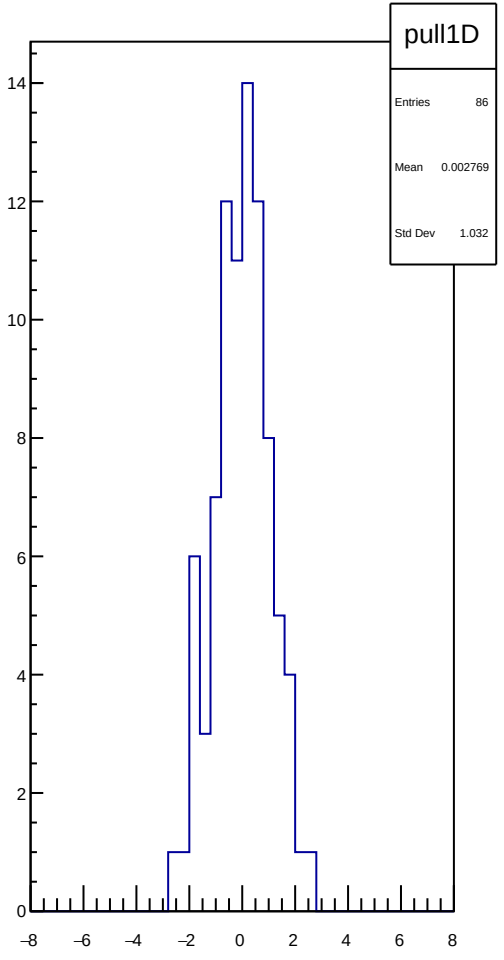

pull1D
Entries 86
Mean −0.03356
Std Dev 0.8907
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

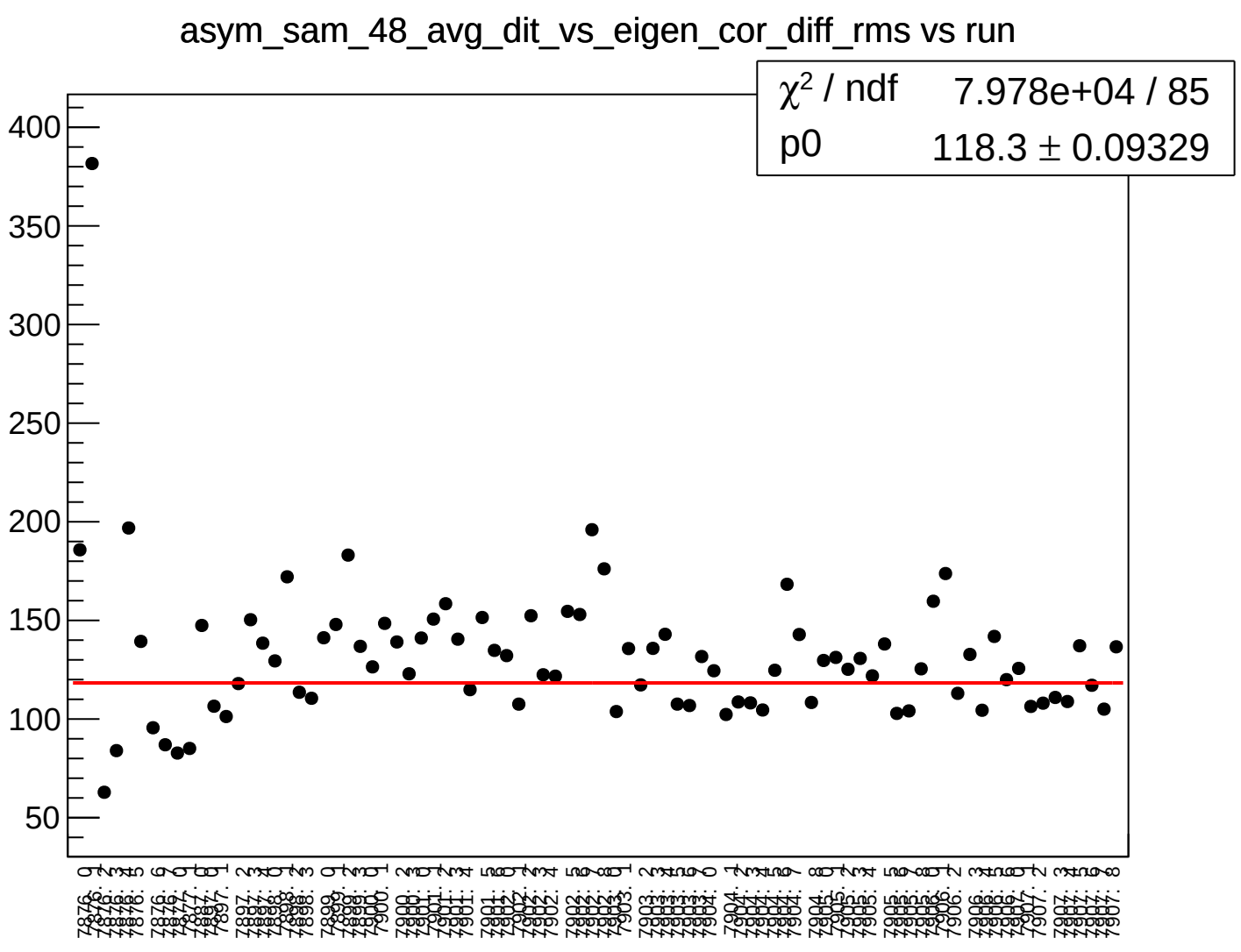

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.077e+06 / 85
p0 2.671e−10 ± 3.418e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

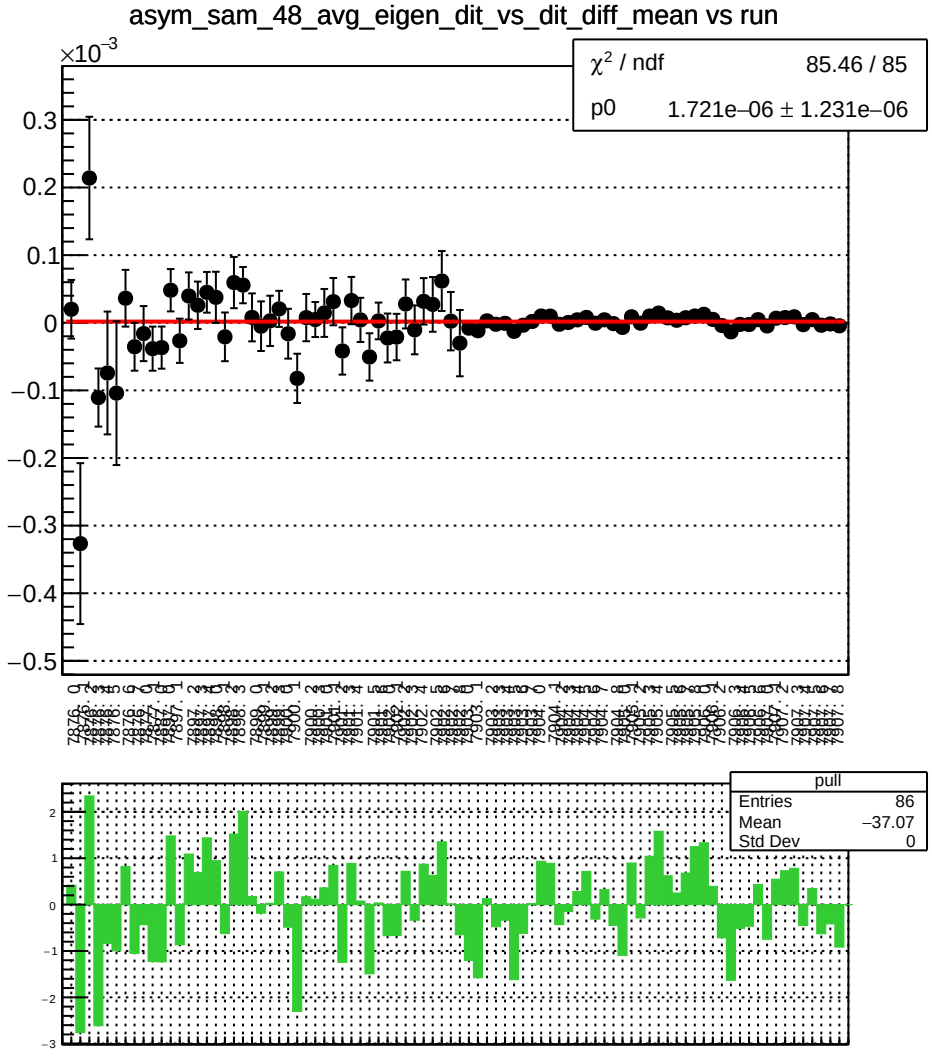

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.62 / 85
p0 −0.2111± 0.1319
pull
Entries 86
Mean 223.6
Std Dev 0
pull1D
Entries 86
Mean 0.002769
Std Dev 1.032

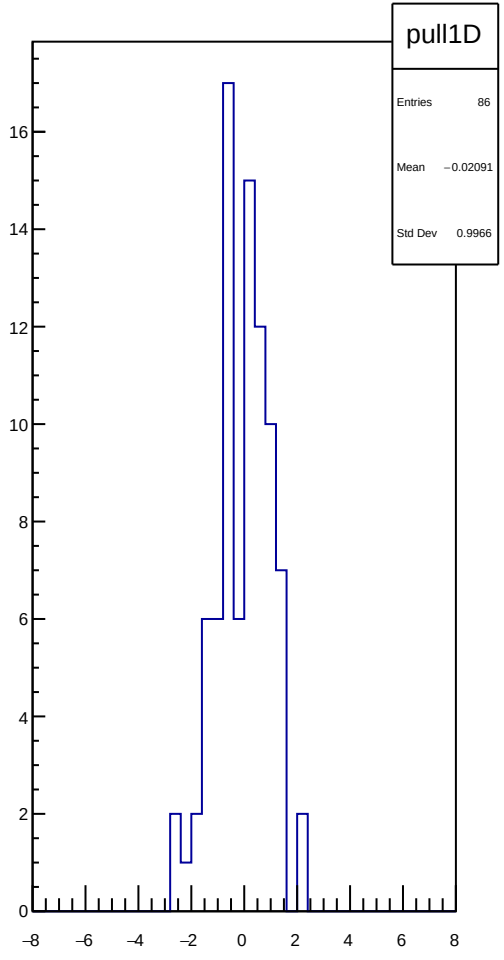

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.978e+04 / 85
p0 118.3 ± 0.09329
400
350
300
250
200
150
100
50

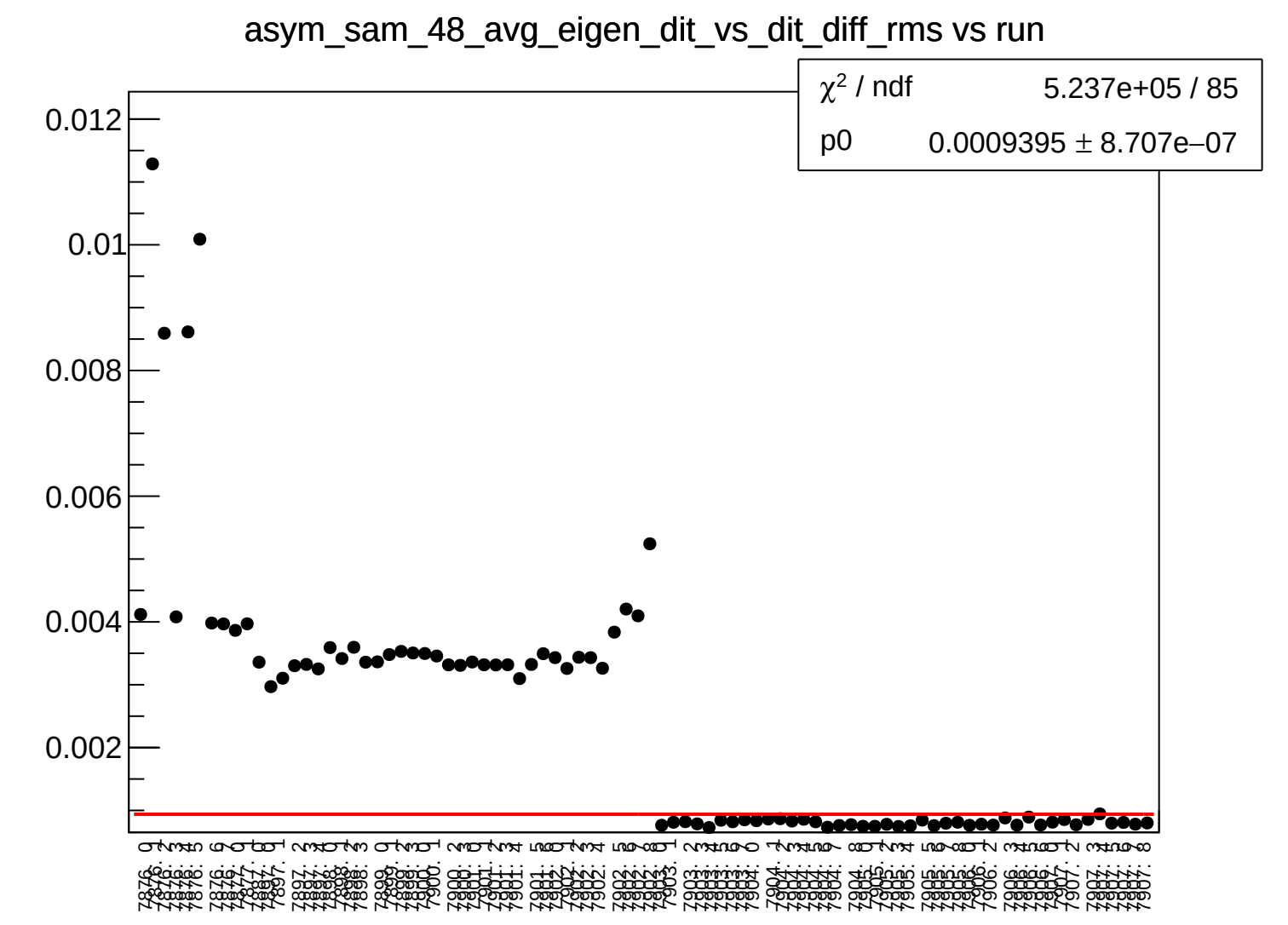

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.62 / 85
p0 −0.2111± 0.1319
pull
Entries 86
Mean 223.6
Std Dev 0

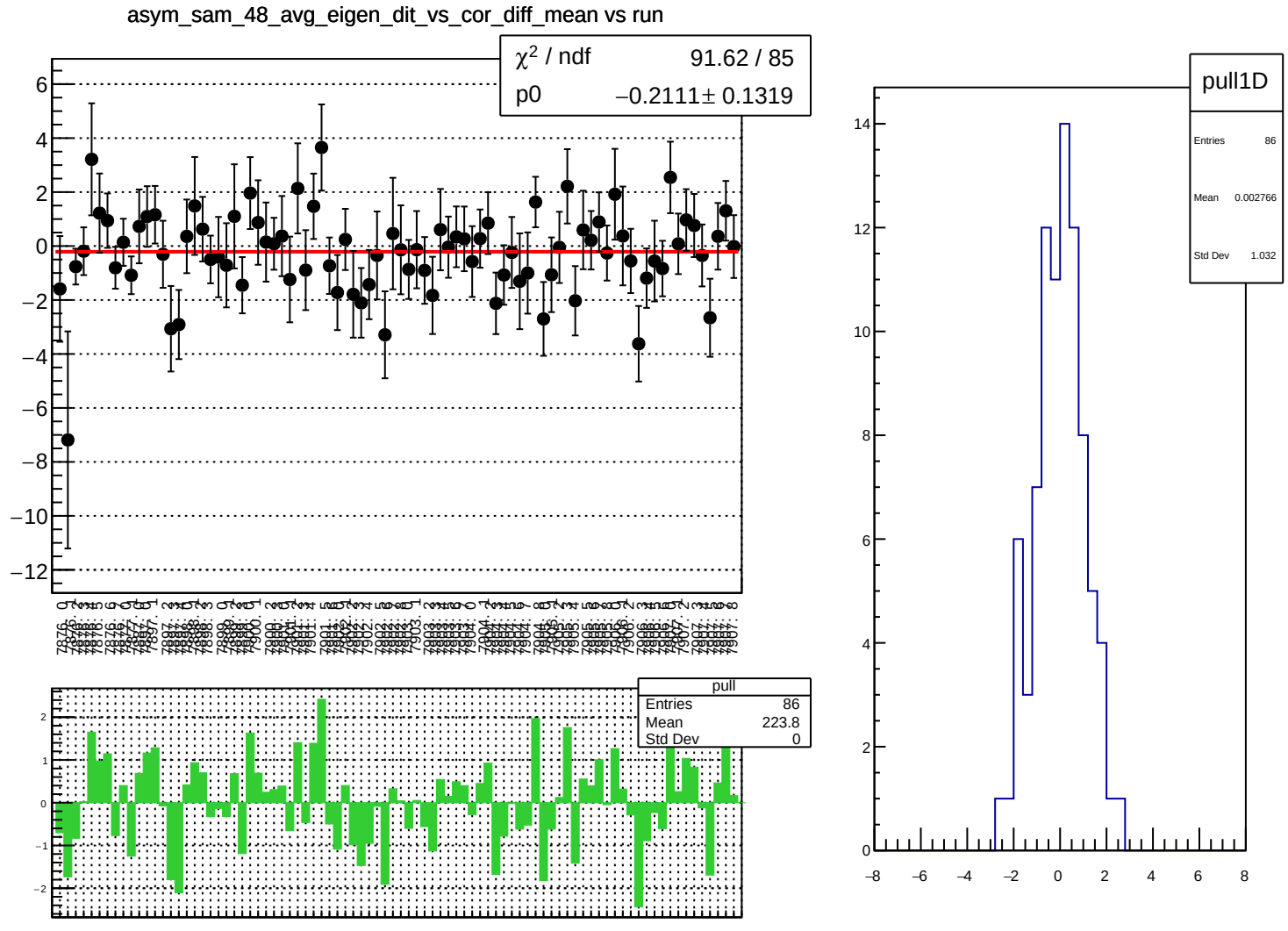

pull1D
Entries 86
Mean 0.002769
Std Dev 1.032

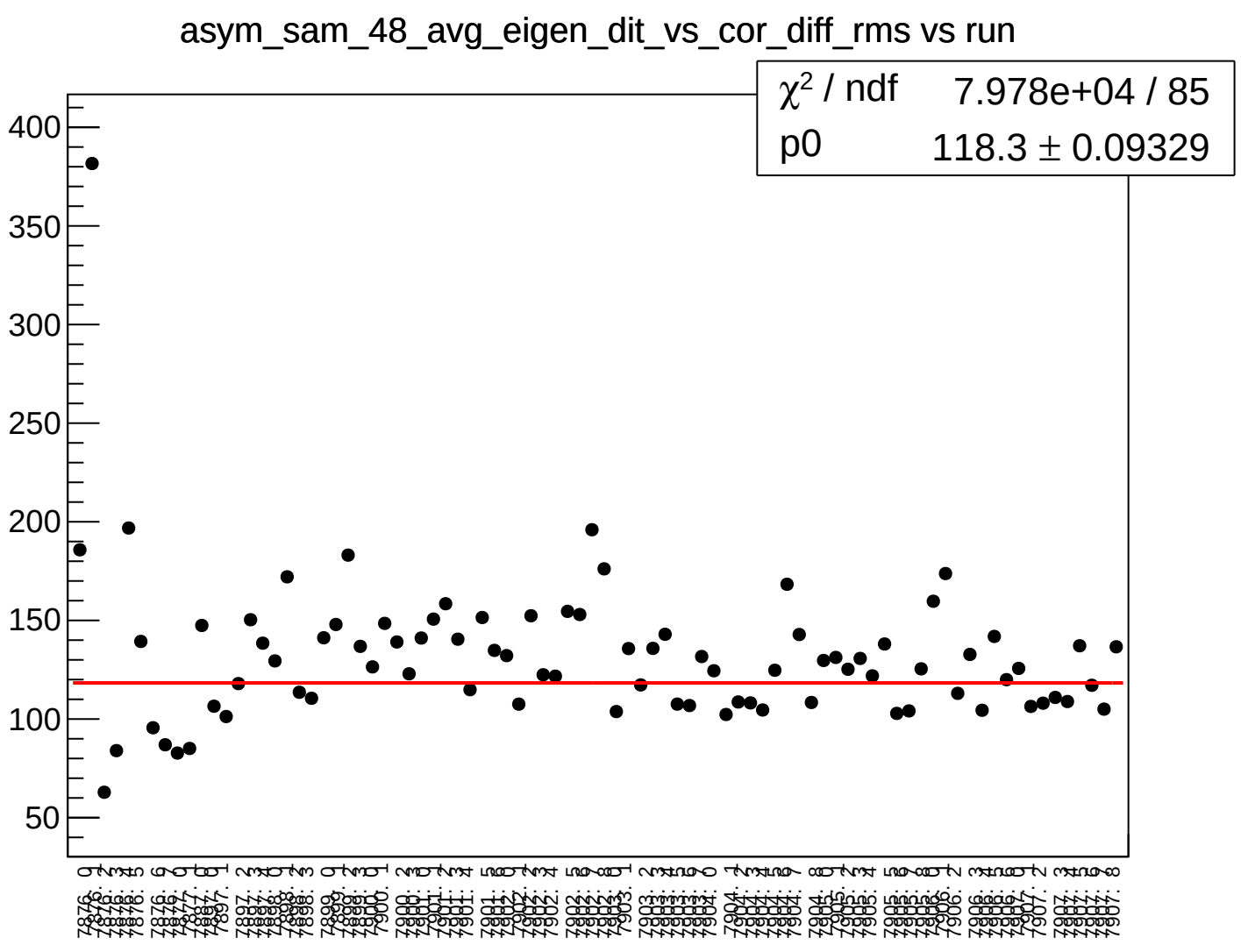

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.978e+04 / 85
p0 118.3 ± 0.09329
400
350
300
250
200
150
100
50

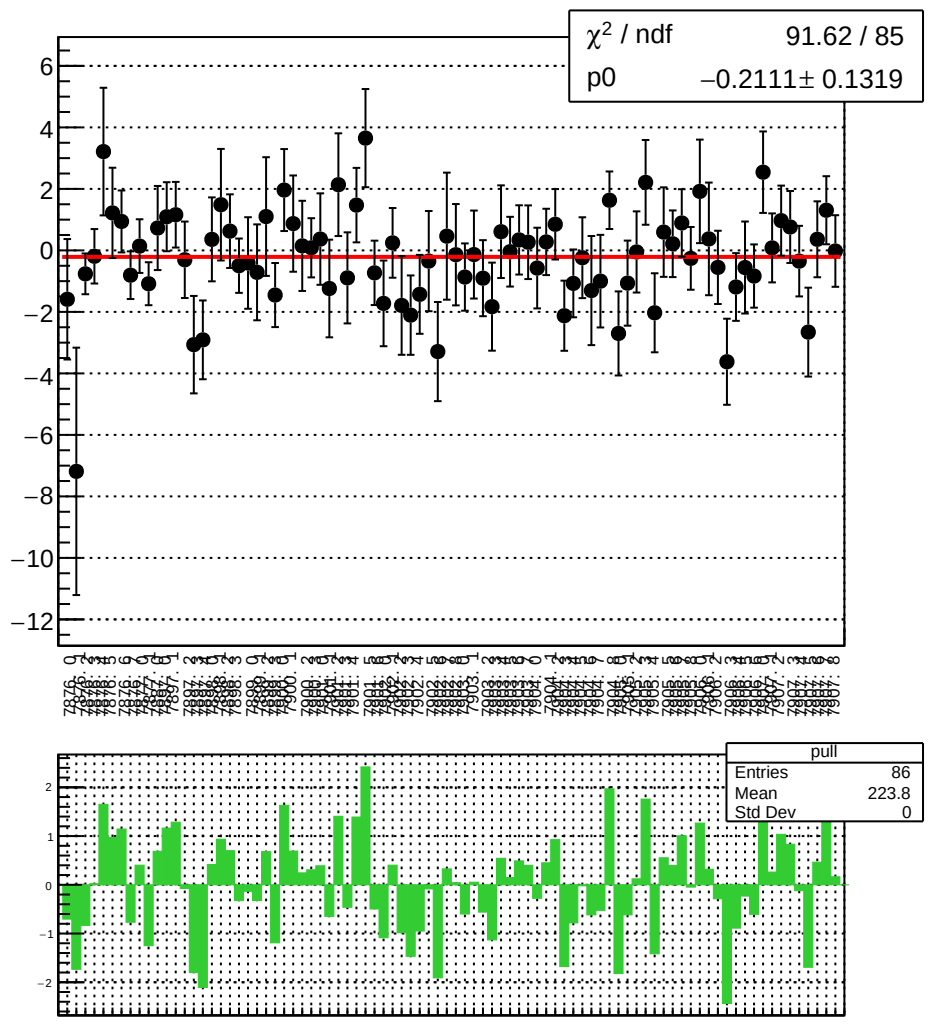

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.46 / 85
p0 1.721e−06 ± 1.231e−06
pull
Entries 86
Mean −37.07
Std Dev 0

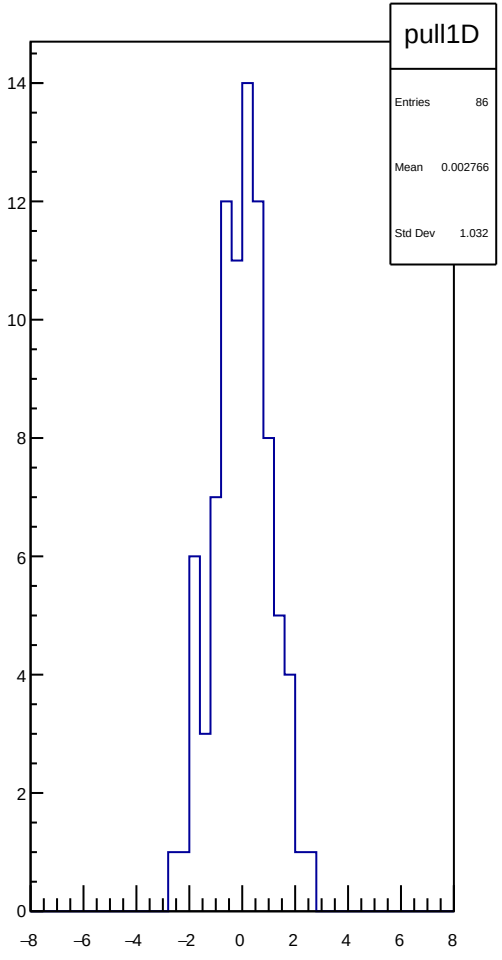

pull1D
Entries 86
Mean −0.02091
Std Dev 0.9966

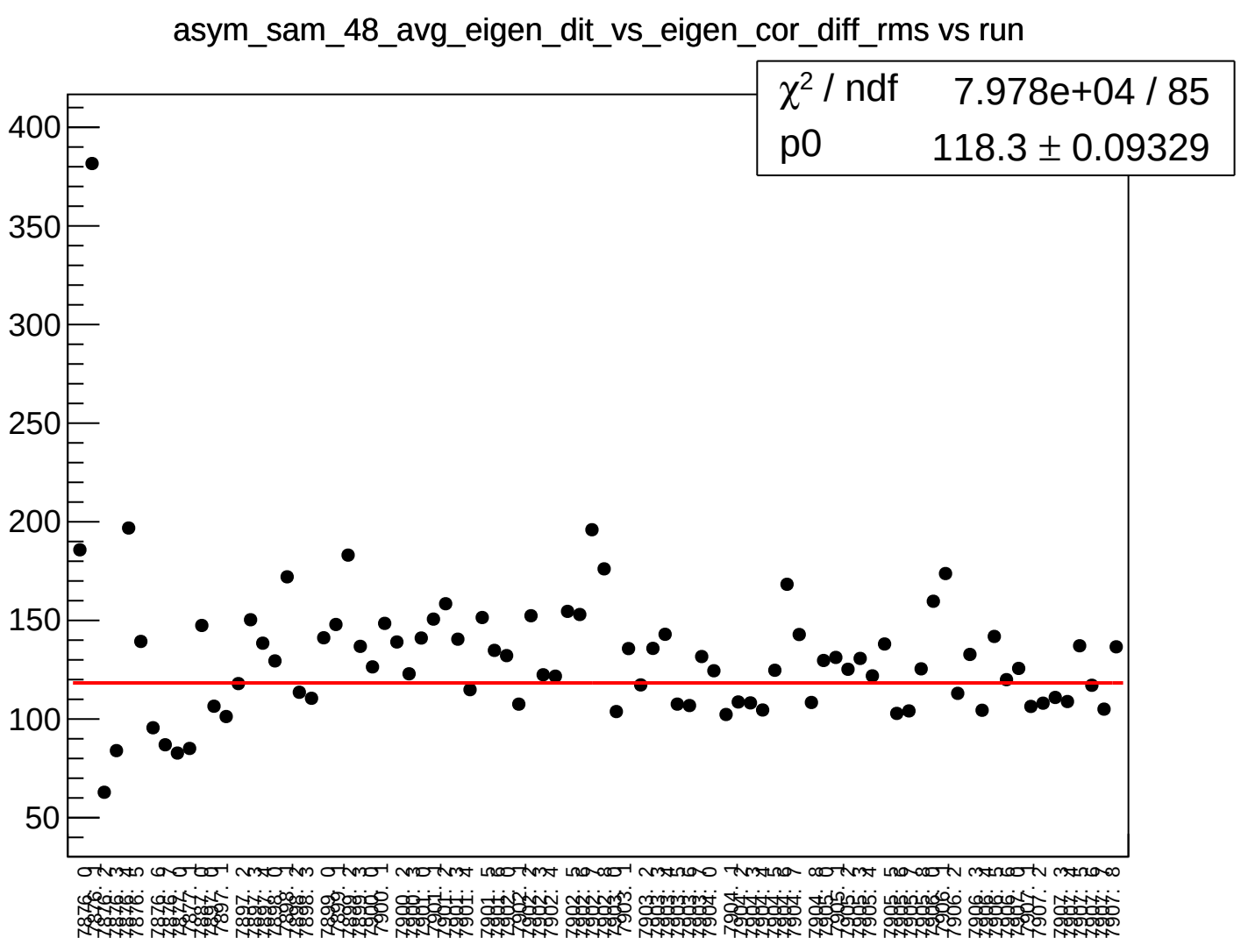

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.237e+05 / 85
p0 0.0009395 ± 8.707e−07
0.012
0.01
0.008
0.006
0.004
0.002

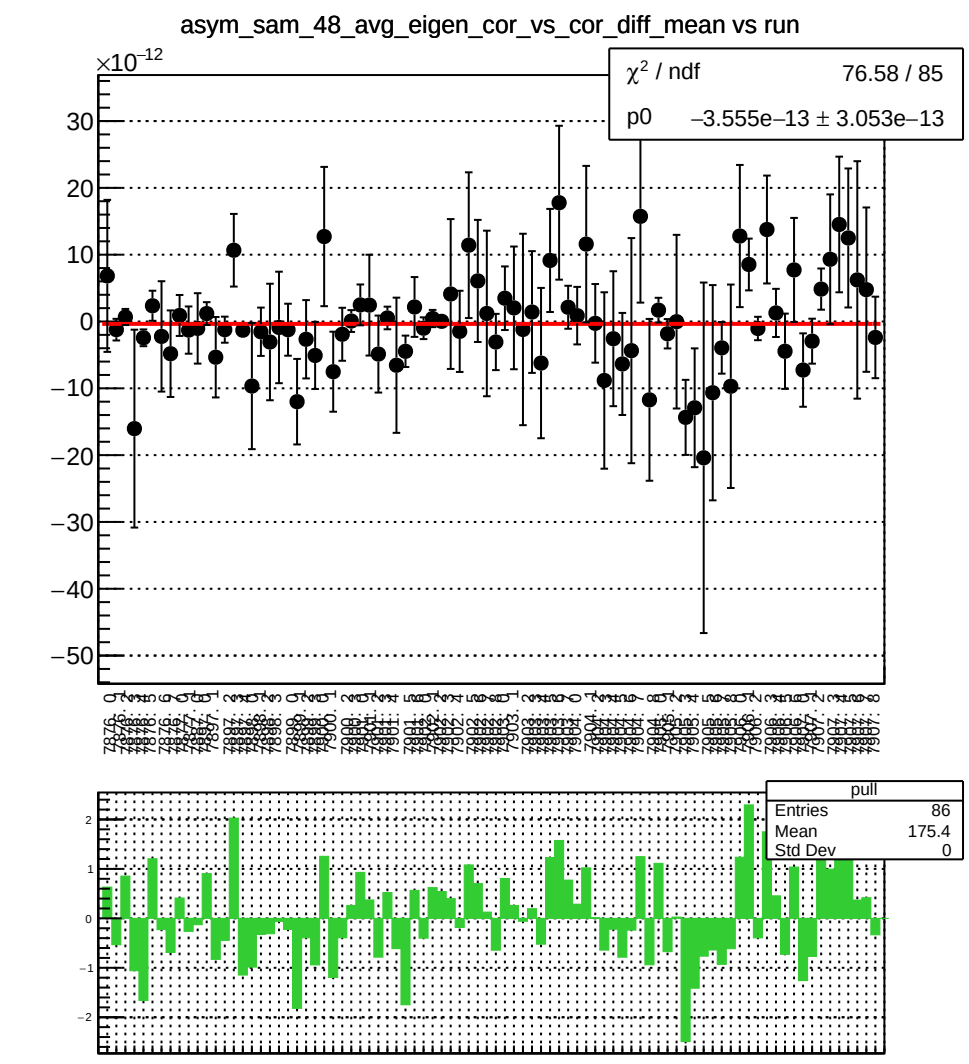

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.62 / 85
p0 −0.2111± 0.1319
pull
Entries 86
Mean 223.8
Std Dev 0
pull1D
Entries 86
Mean 0.002766
Std Dev 1.032

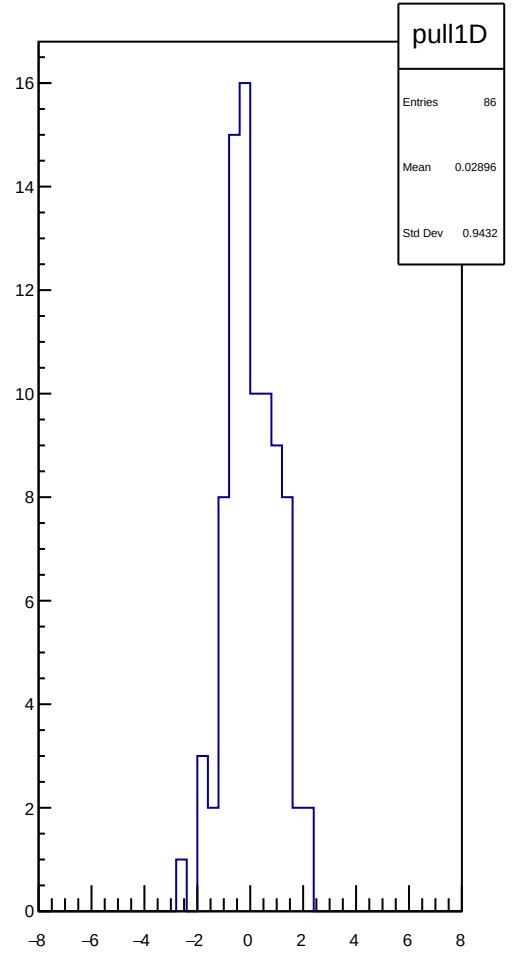

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.978e+04 / 85
p0 118.3 ± 0.09329
400
350
300
250
200
150
100
50

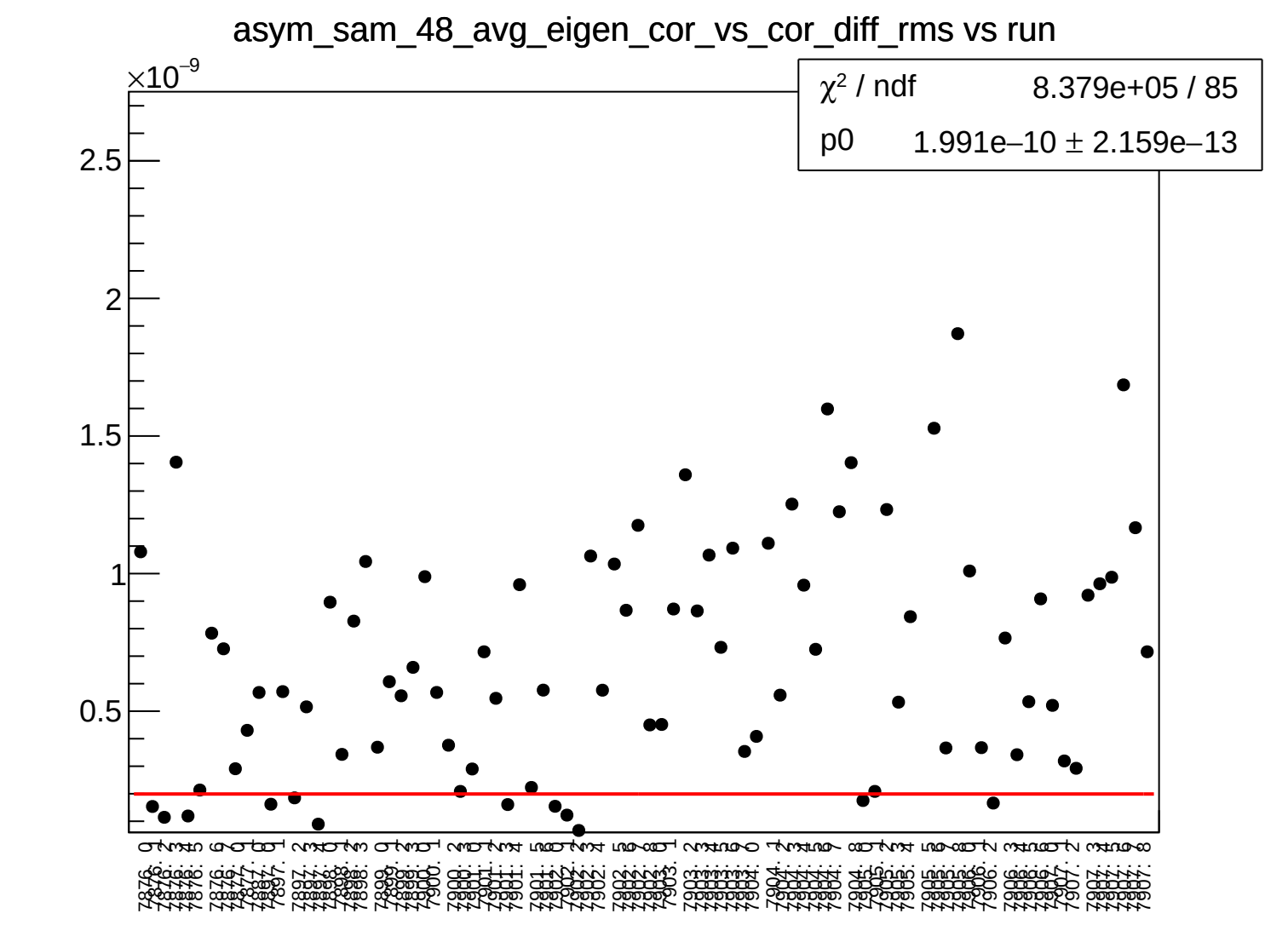

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.62 / 85
p0 −0.2111± 0.1319
pull
Entries 86
Mean 223.8
Std Dev 0

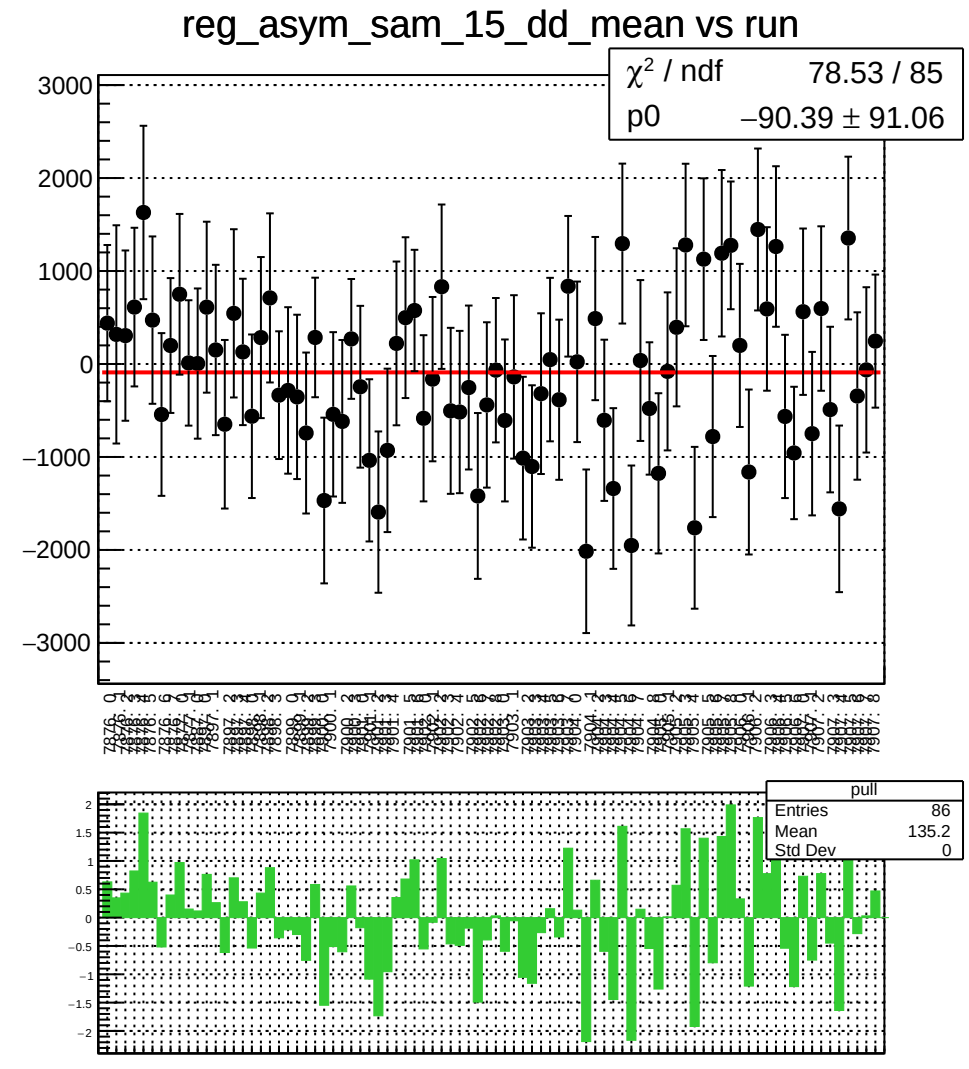

pull1D
Entries 86
Mean 0.002766
Std Dev 1.032

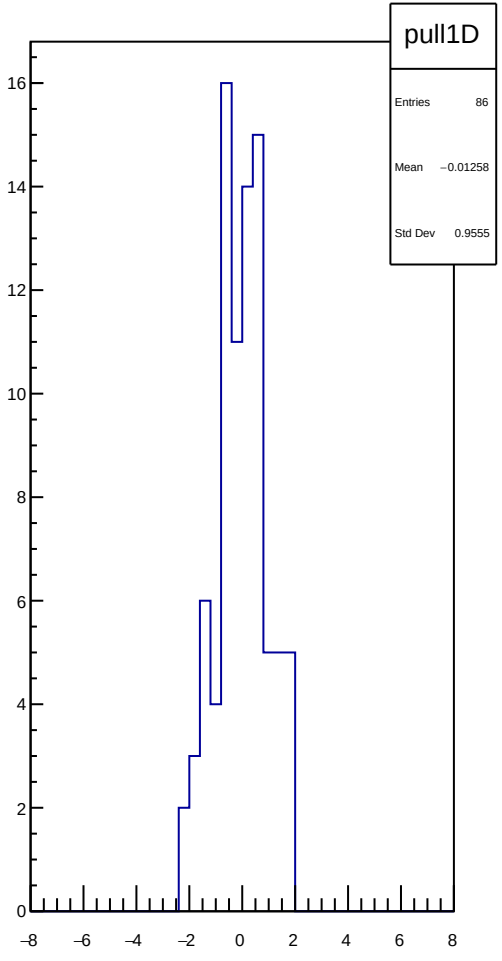

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.978e+04 / 85
p0 118.3 ± 0.09329
400
350
300
250
200
150
100
50

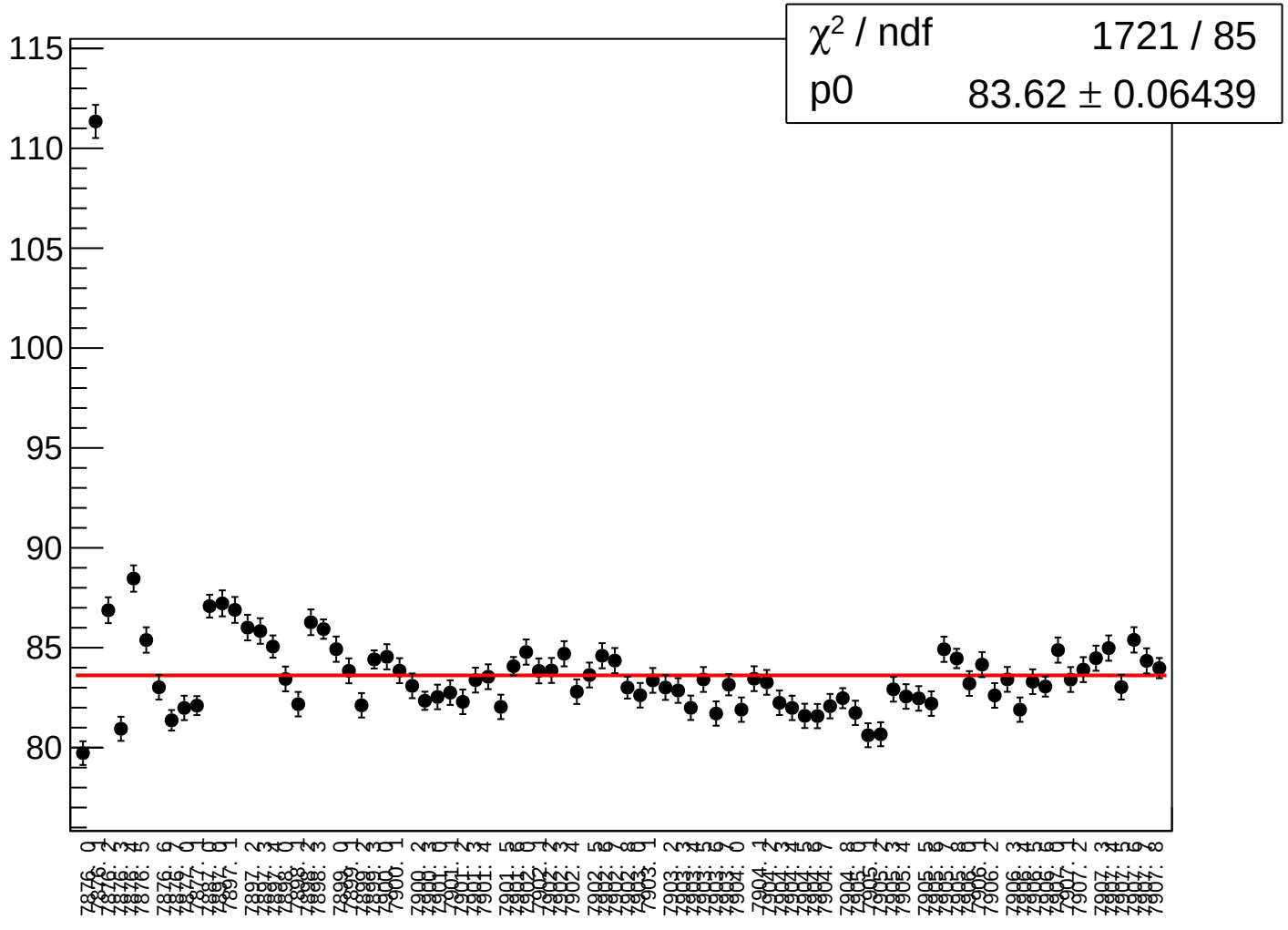

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.58 / 85
p0 −3.555e−13 ± 3.053e−13
pull
Entries 86
Mean 175.4
Std Dev 0

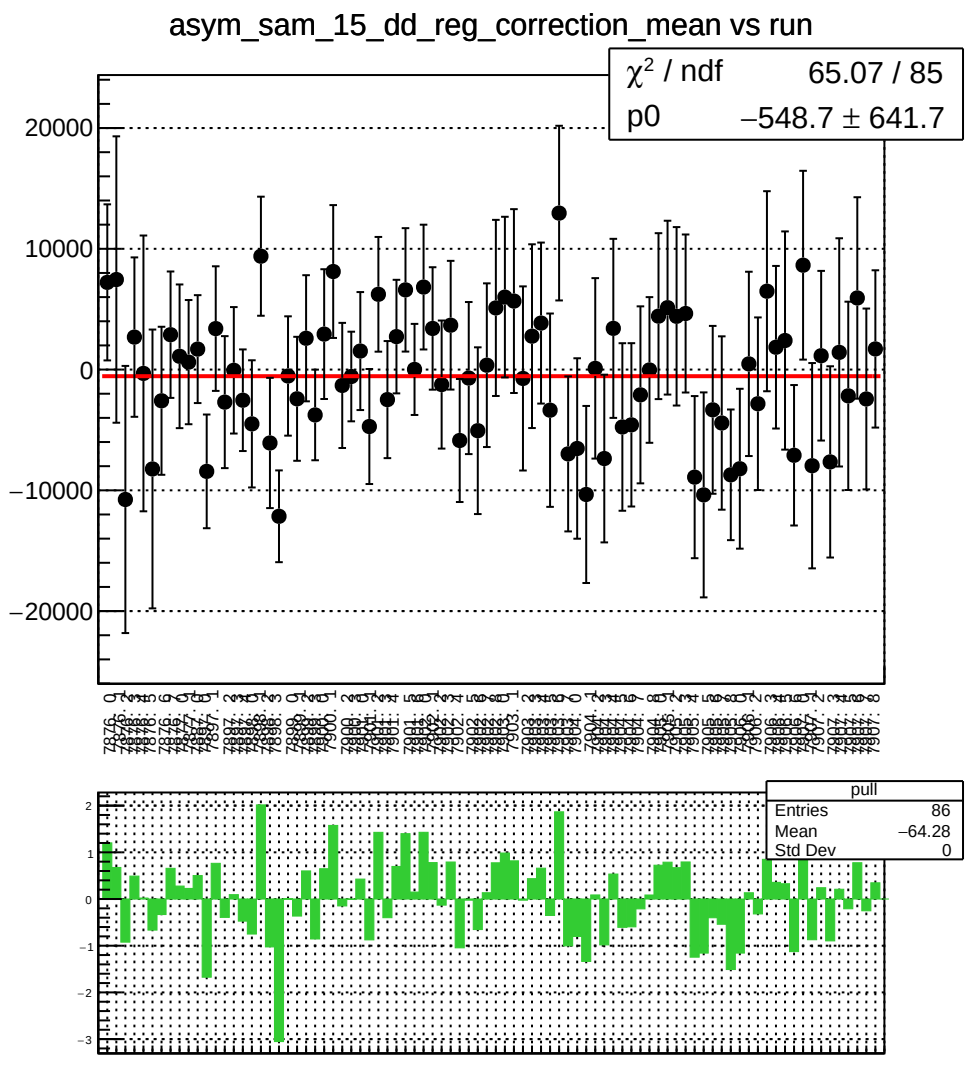

pull1D
Entries 86
Mean 0.02896
Std Dev 0.9432

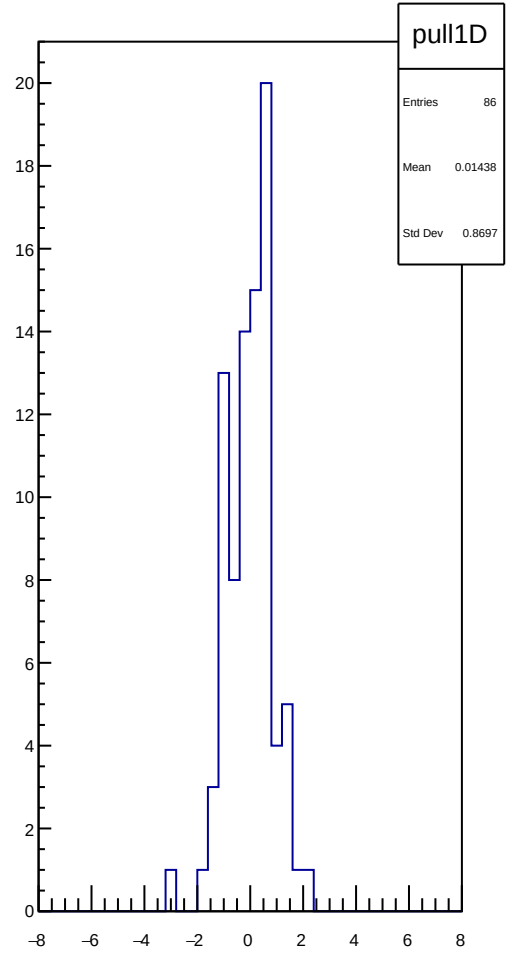

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.379e+05 / 85
p0 1.991e−10 ± 2.159e−13
2.5
2
1.5
1
0.5

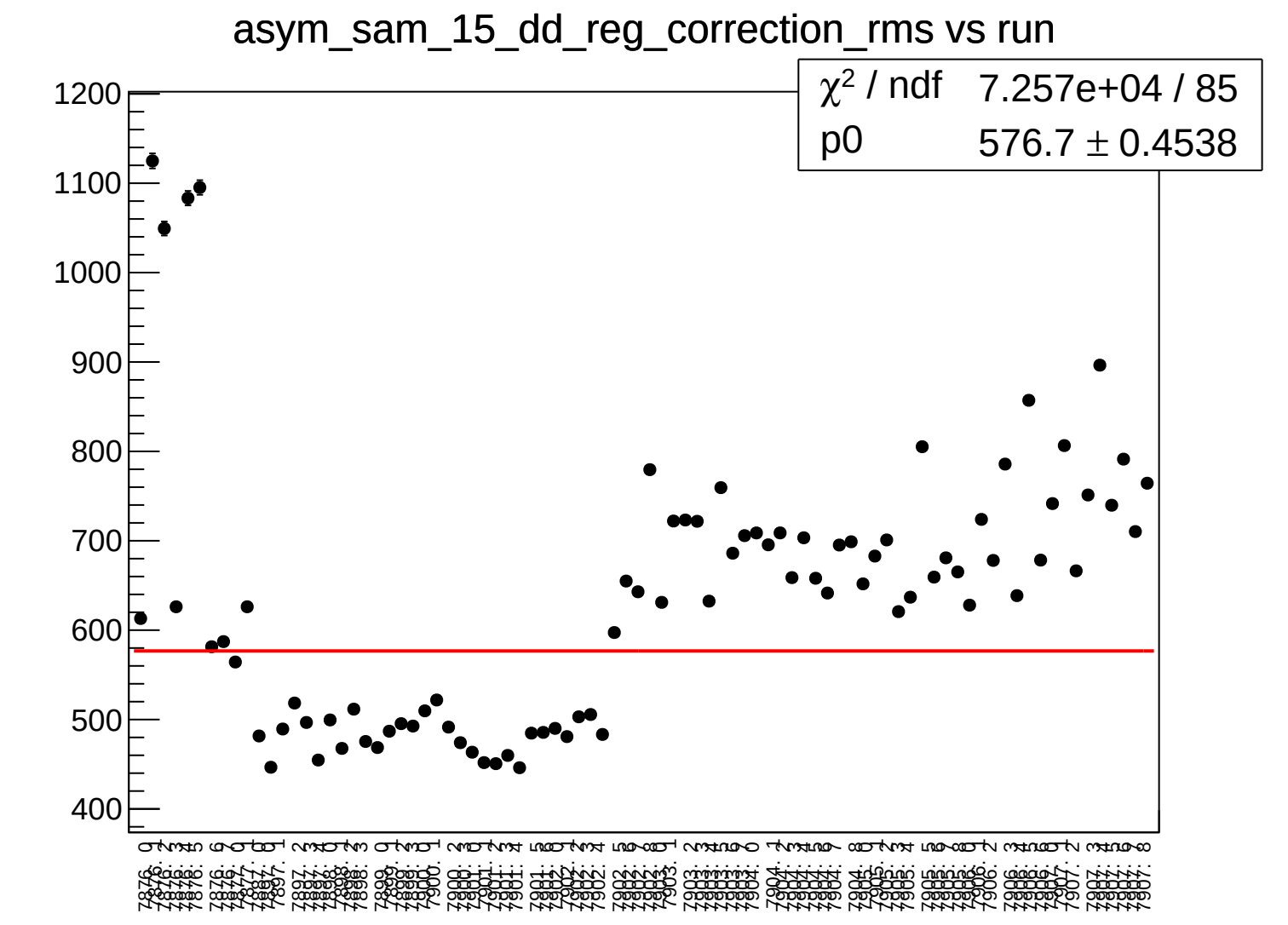

reg_asym_sam_15_dd_mean vs run
χ² / ndf 78.53 / 85
p0 −90.39 ± 91.06
pull
Entries 86
Mean 135.2
Std Dev 0

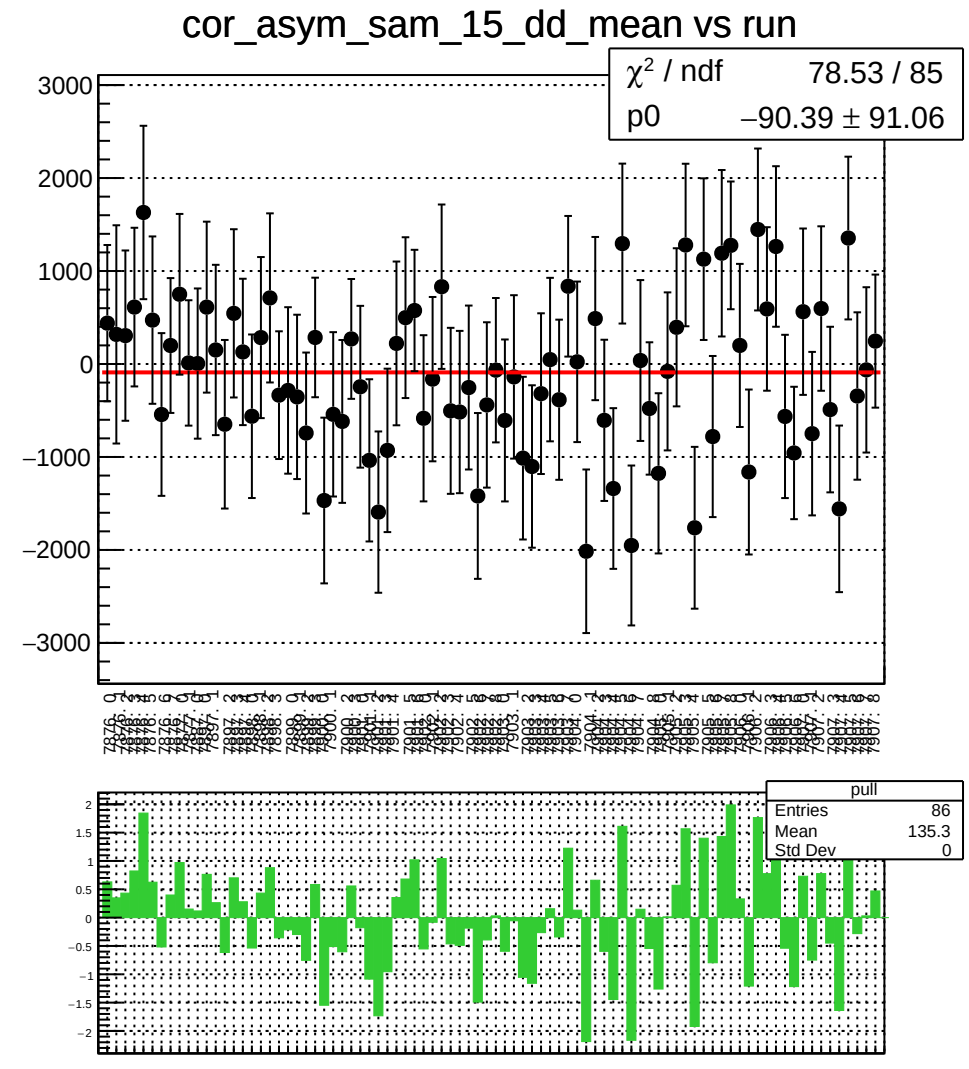

pull1D
Entries 86
Mean −0.01258
Std Dev 0.9555

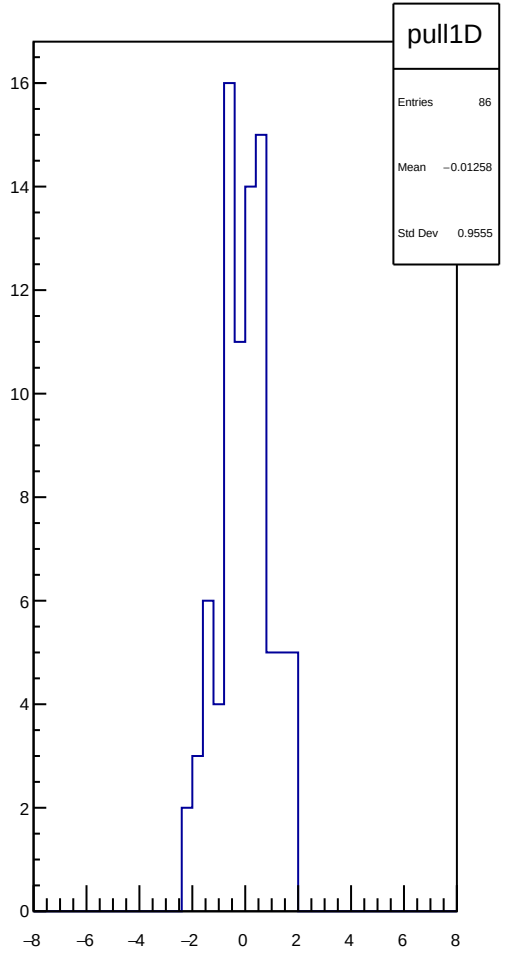

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 1721 / 85
p0 83.62 ± 0.06439
115
110
105
100
95
90
85
80

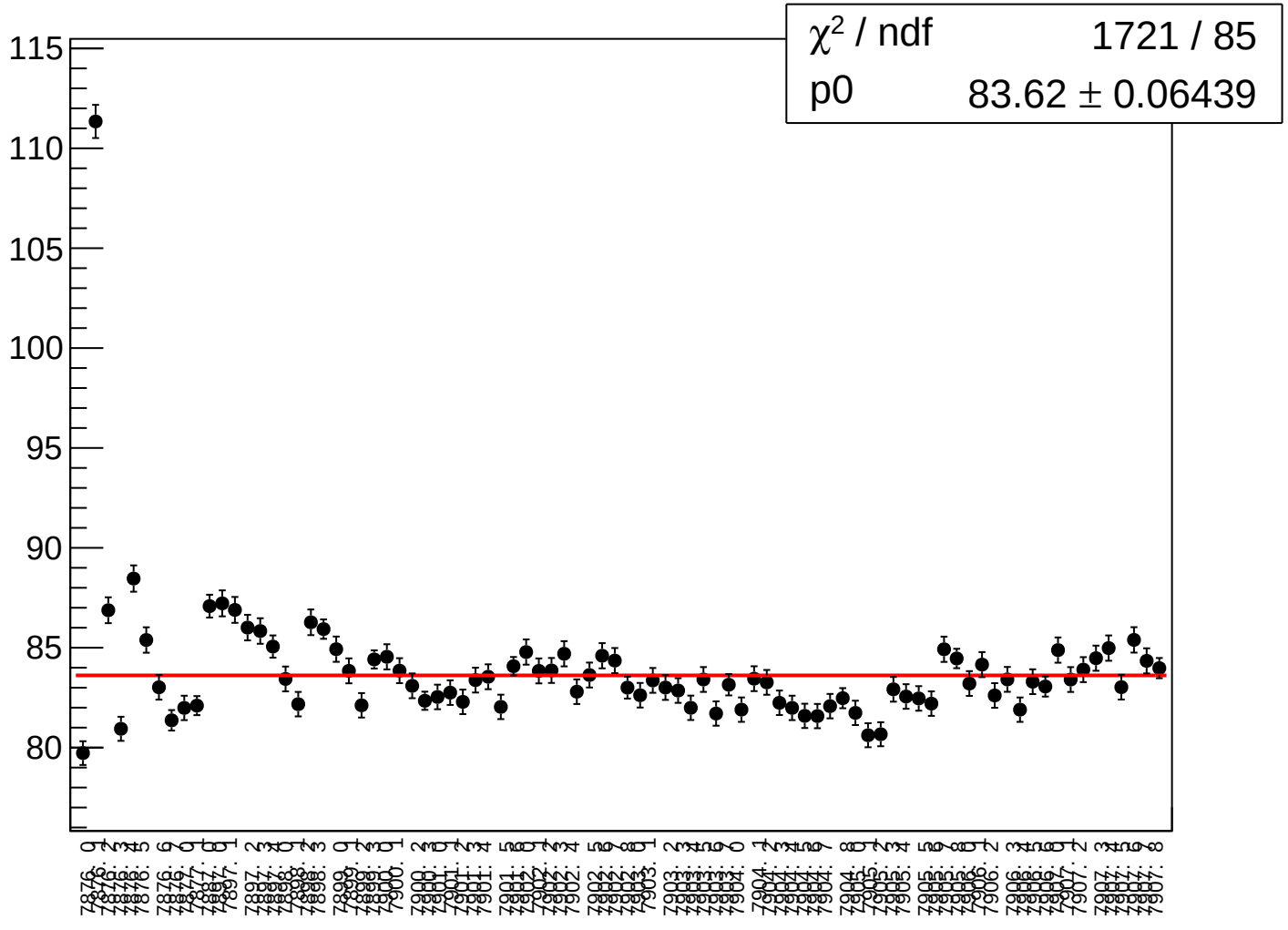

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 65.07 / 85
p0 −548.7 ± 641.7
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −64.28
Std Dev 0
2
1
0
−1
−2
−3

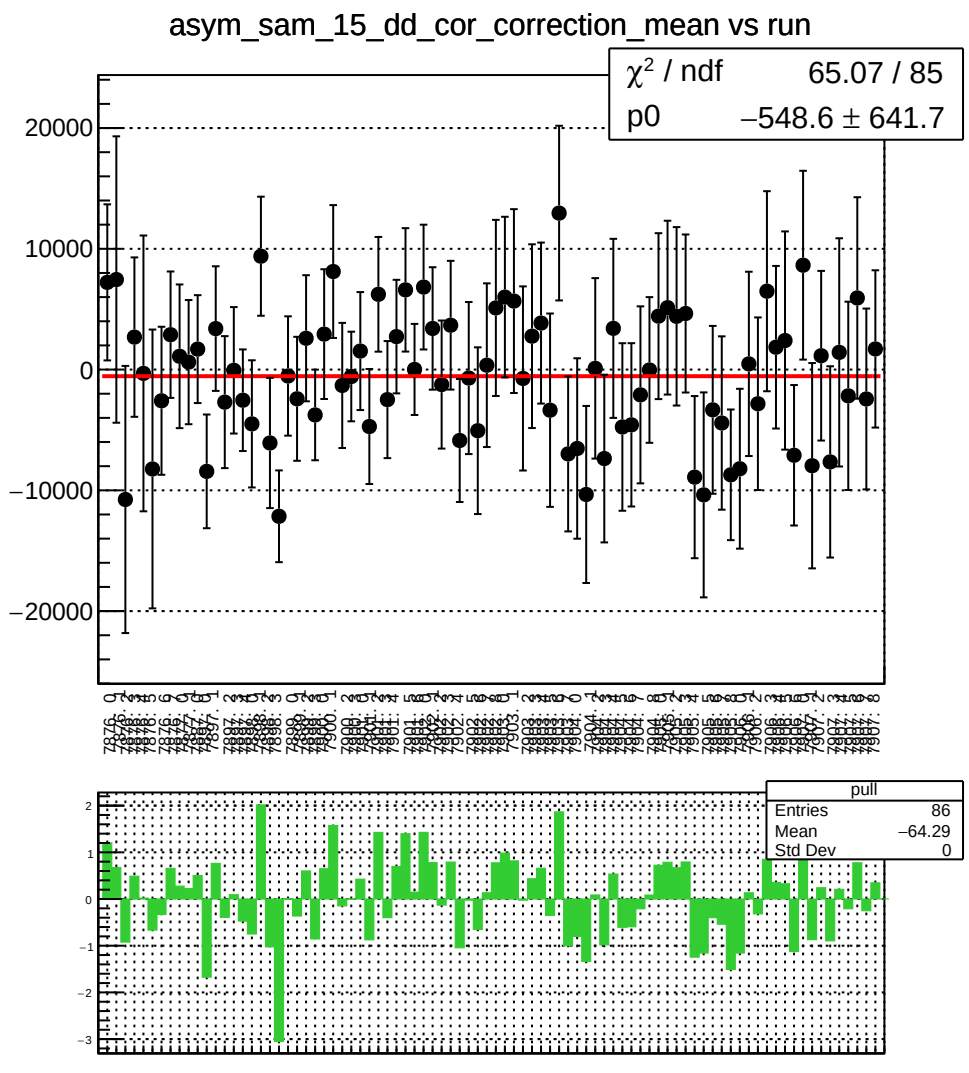

pull1D
Entries 86
Mean 0.01438
Std Dev 0.8697
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

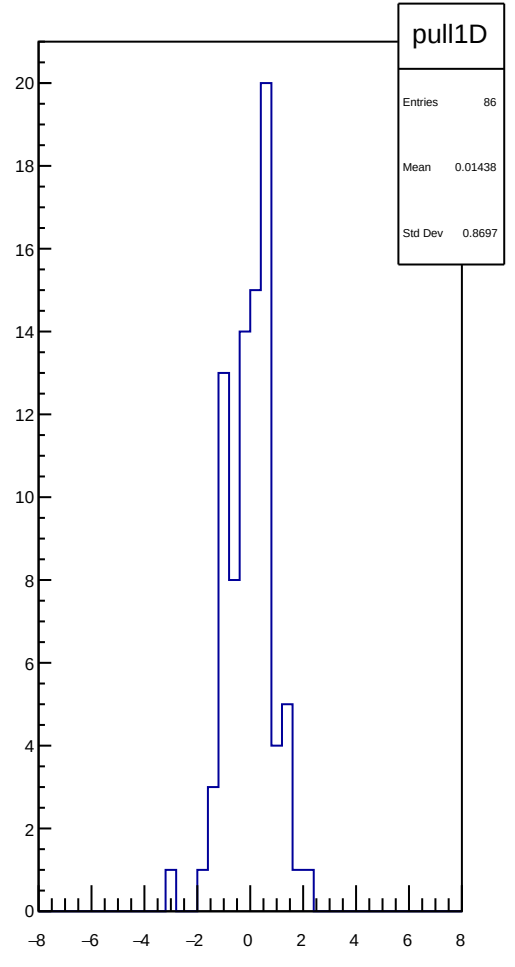

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 7.257e+04 / 85
p0 576.7 ± 0.4538
1200
1100
1000
900
800
700
600
500
400

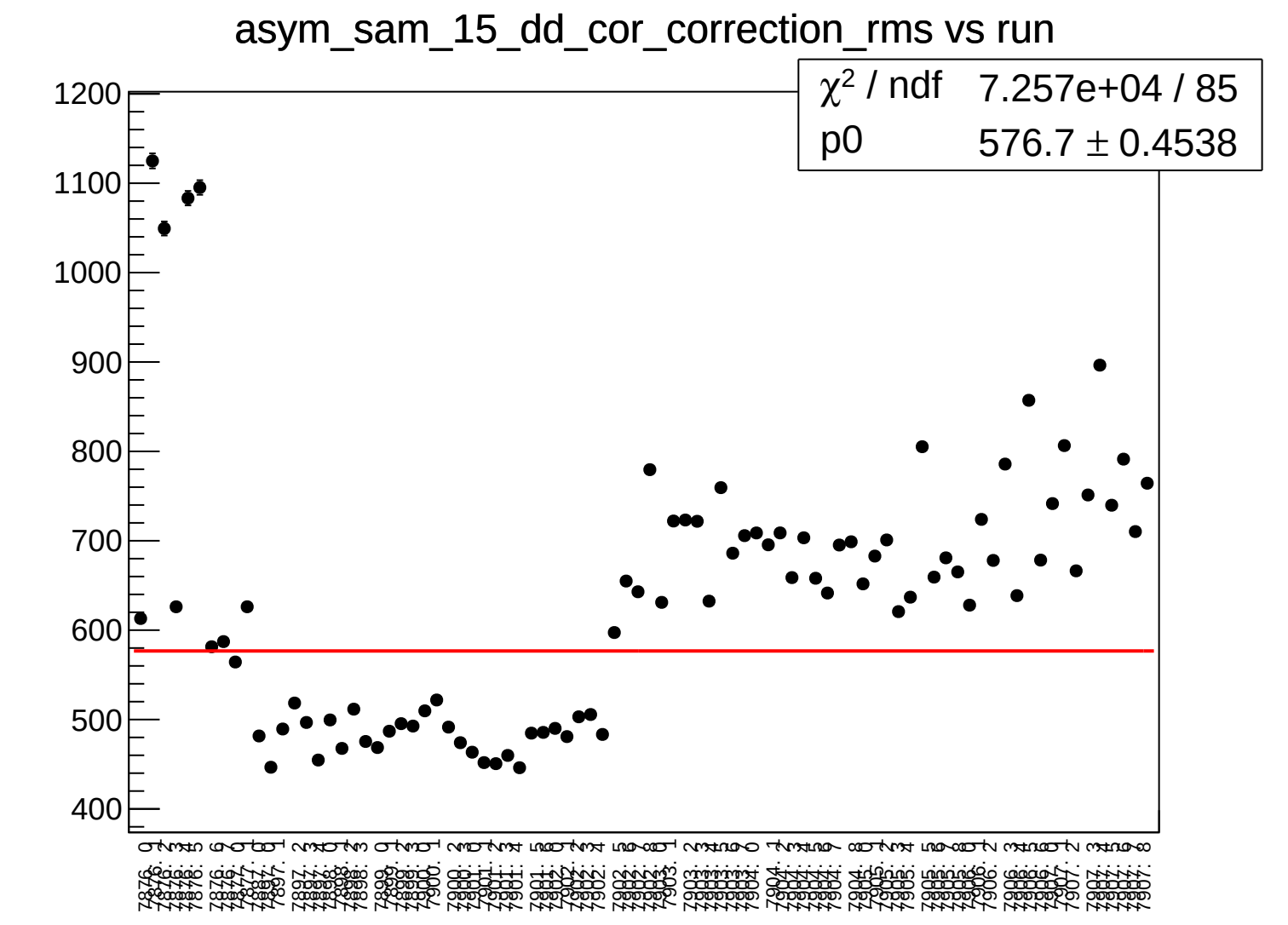

cor_asym_sam_15_dd_mean vs run
χ² / ndf 78.53 / 85
p0 −90.39 ± 91.06
pull
Entries 86
Mean 135.3
Std Dev 0

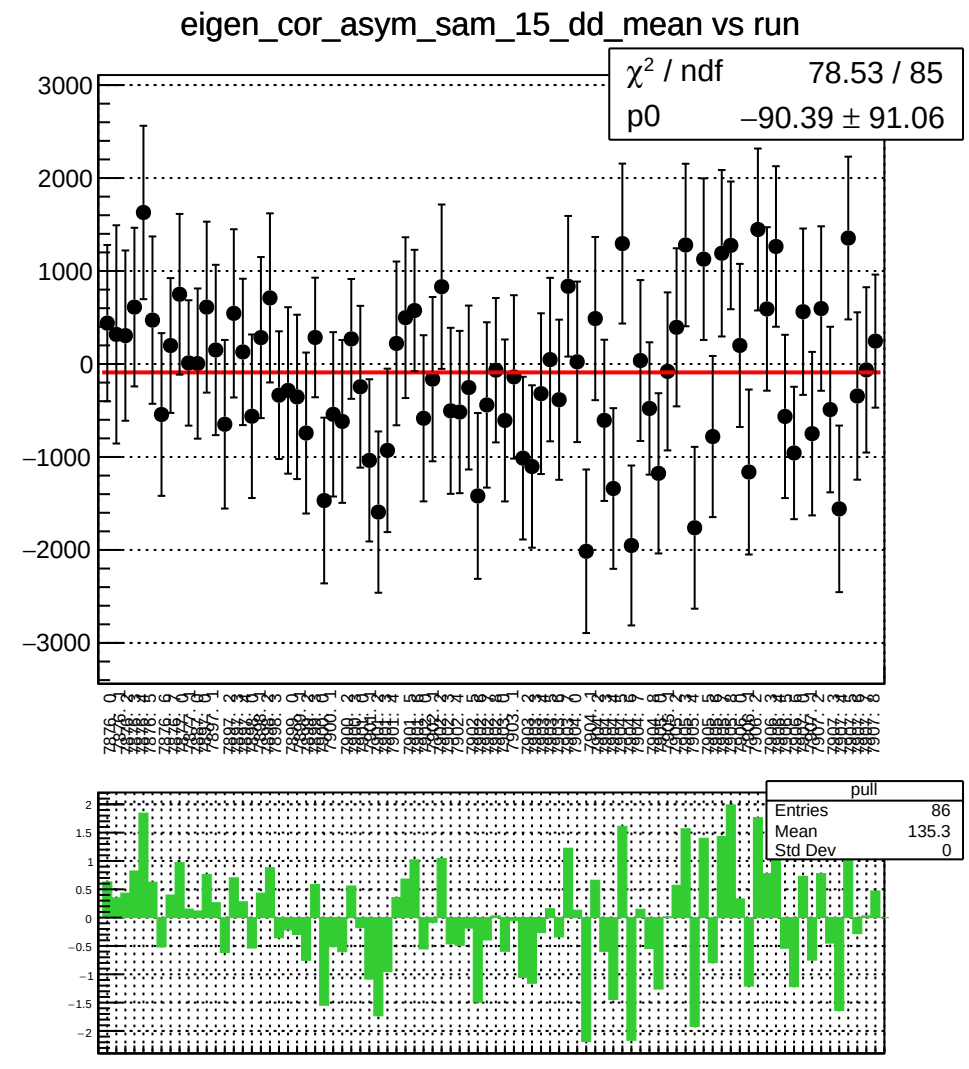

pull1D
Entries 86
Mean −0.01258
Std Dev 0.9555

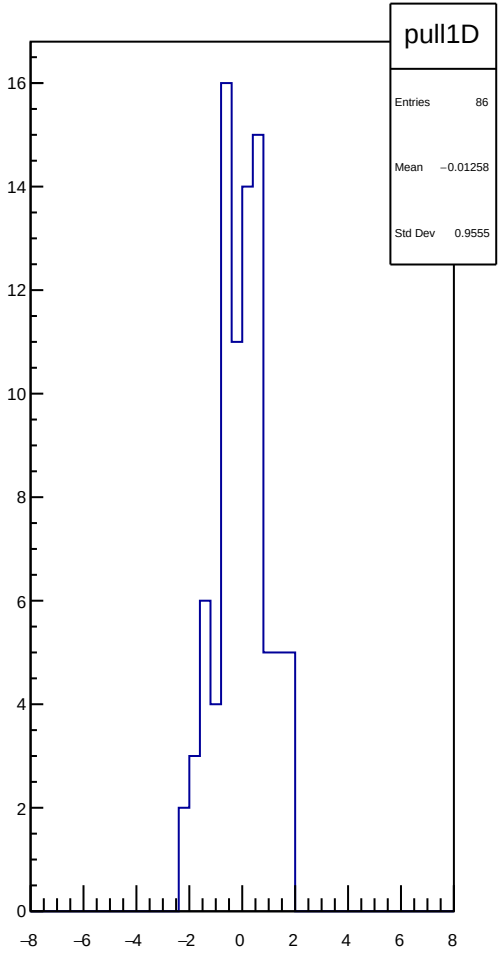

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 1721 / 85
p0 83.62 ± 0.06439
115
110
105
100
95
90
85
80

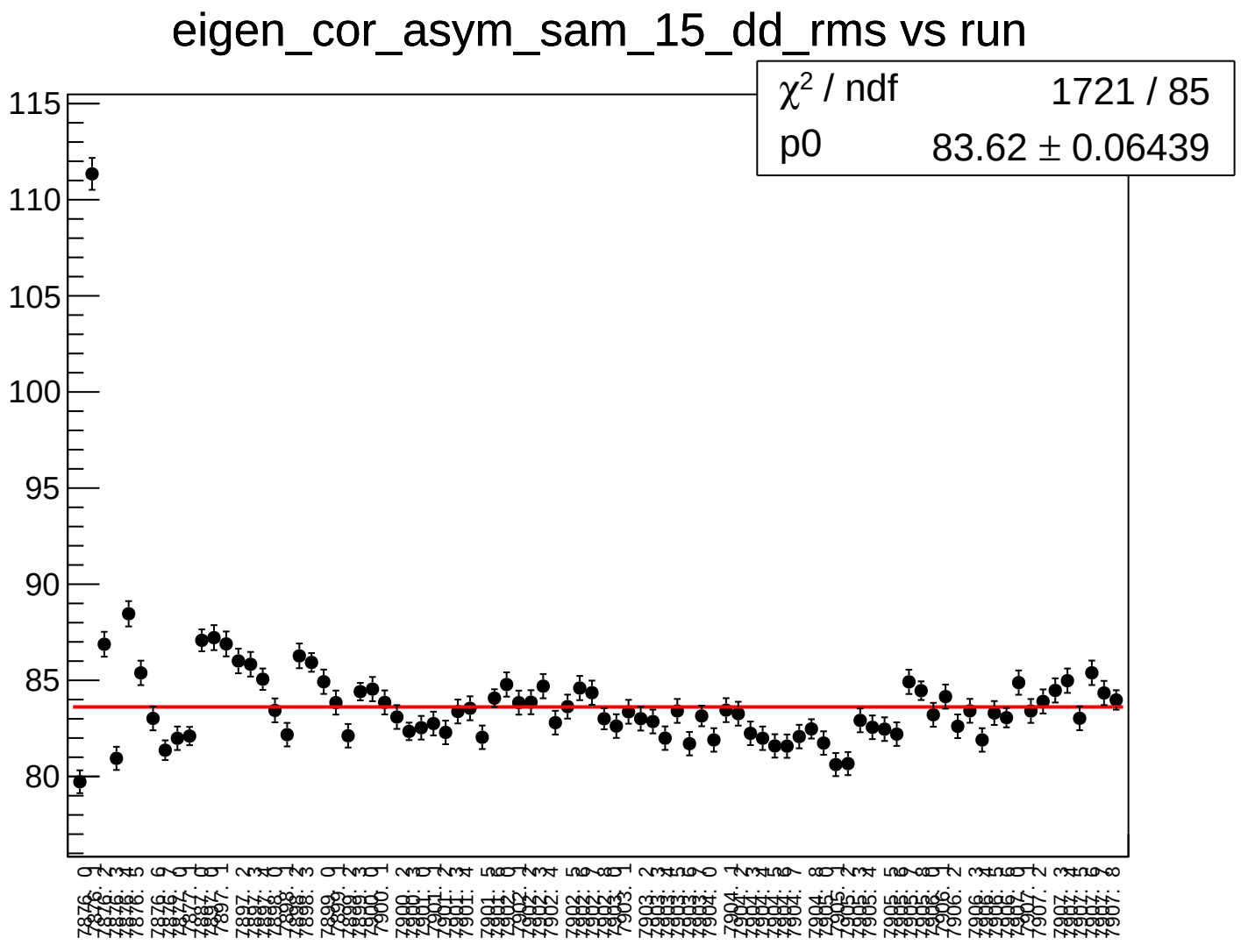

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 65.07 / 85
p0 −548.6 ± 641.7
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −64.29
Std Dev 0
2
1
0
−1
−2
−3

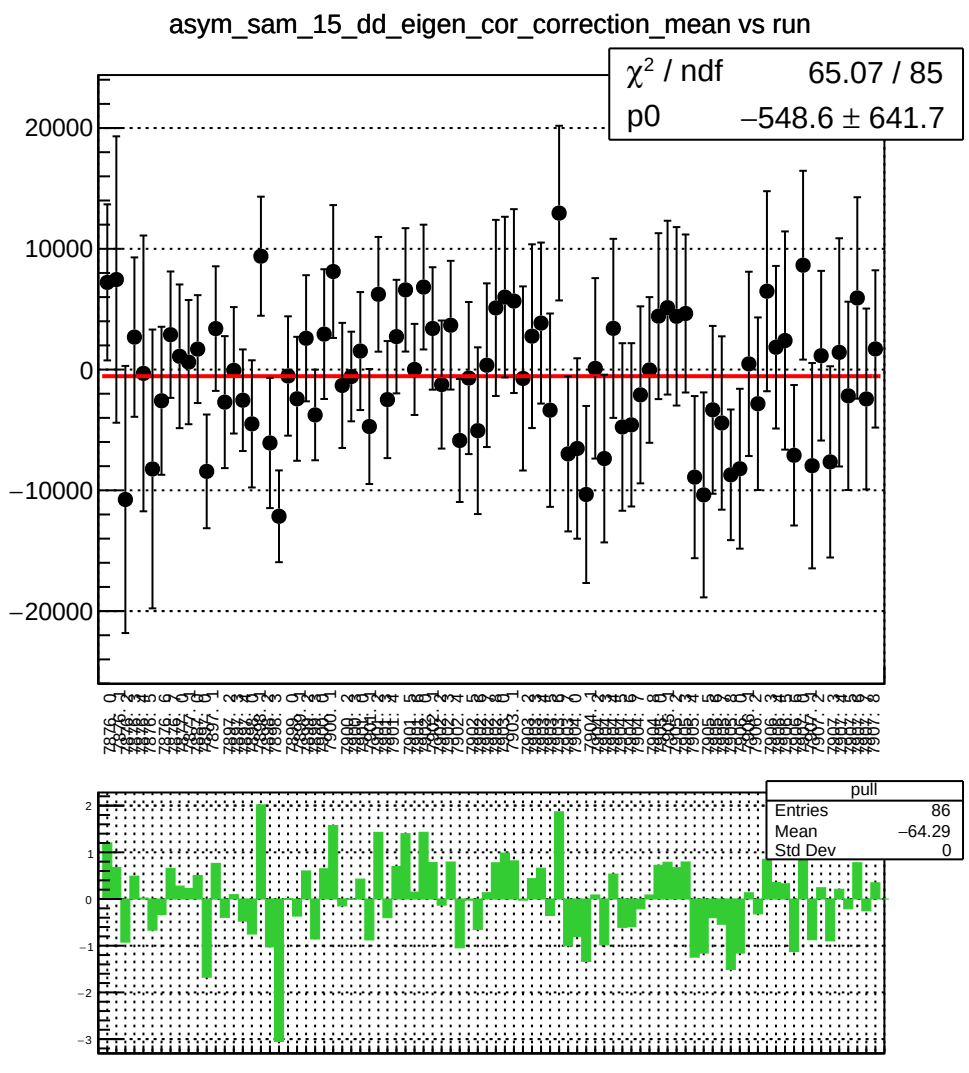

pull1D
Entries 86
Mean 0.01438
Std Dev 0.8697
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

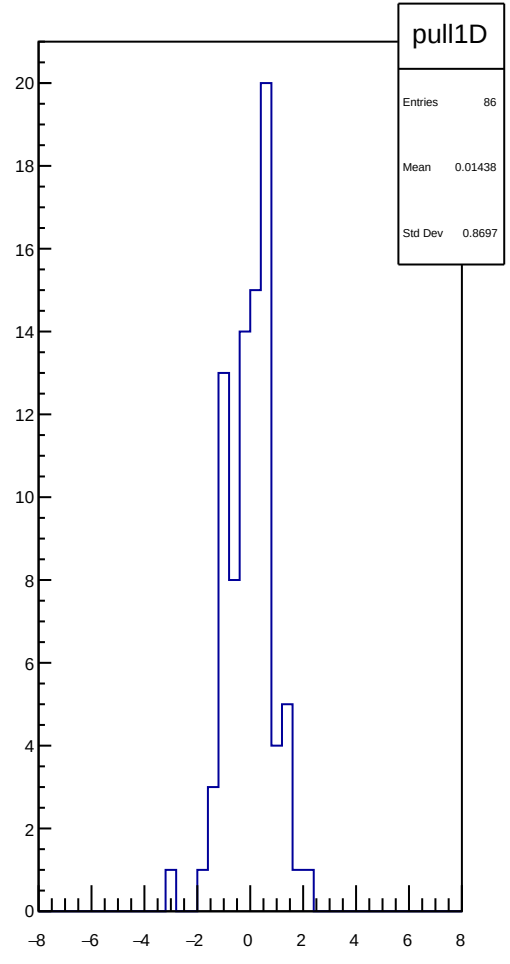

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 7.257e+04 / 85
p0 576.7 ± 0.4538
1200
1100
1000
900
800
700
600
500
400

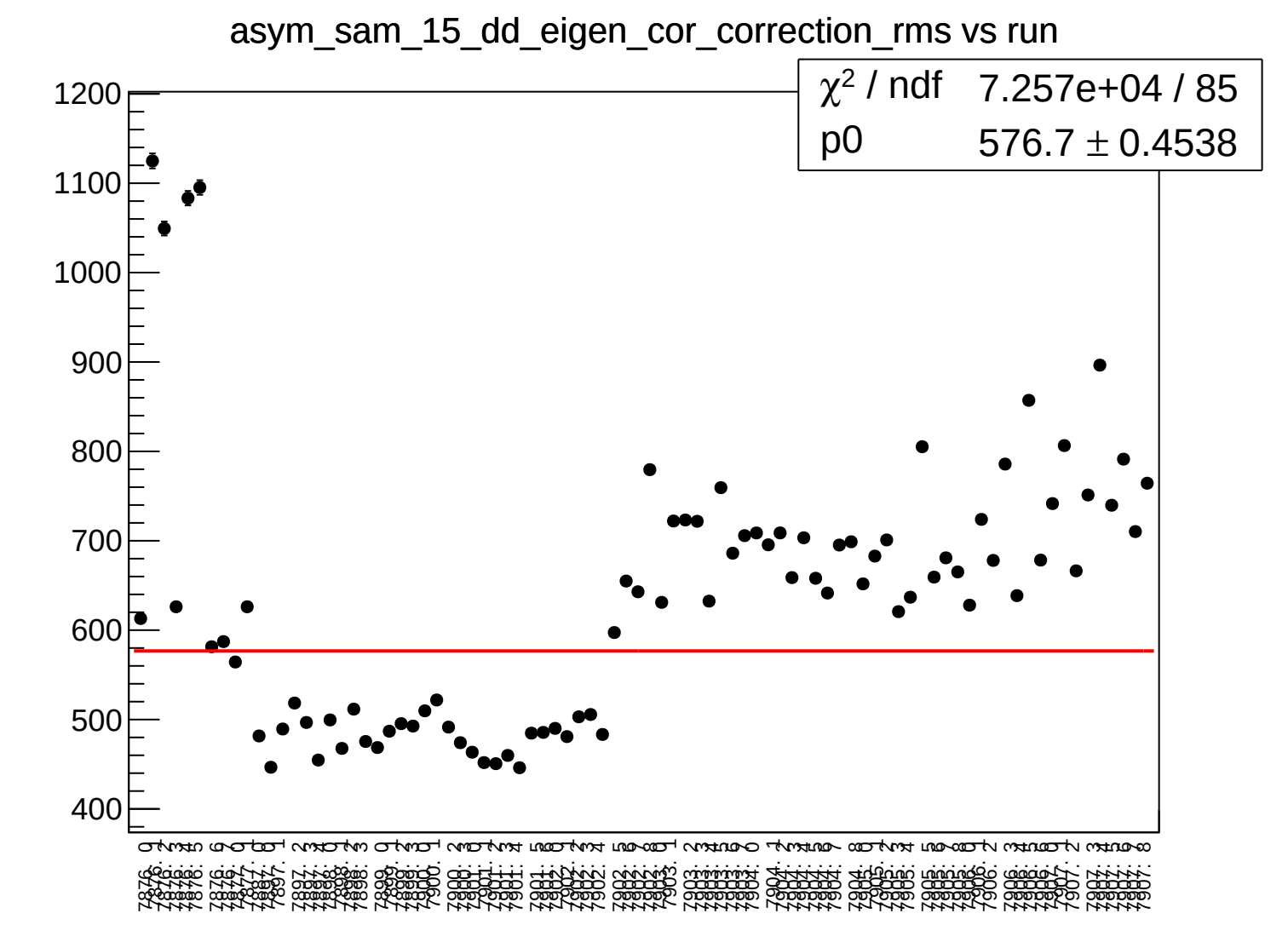

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 78.53 / 85
p0 −90.39 ± 91.06
pull
Entries 86
Mean 135.3
Std Dev 0

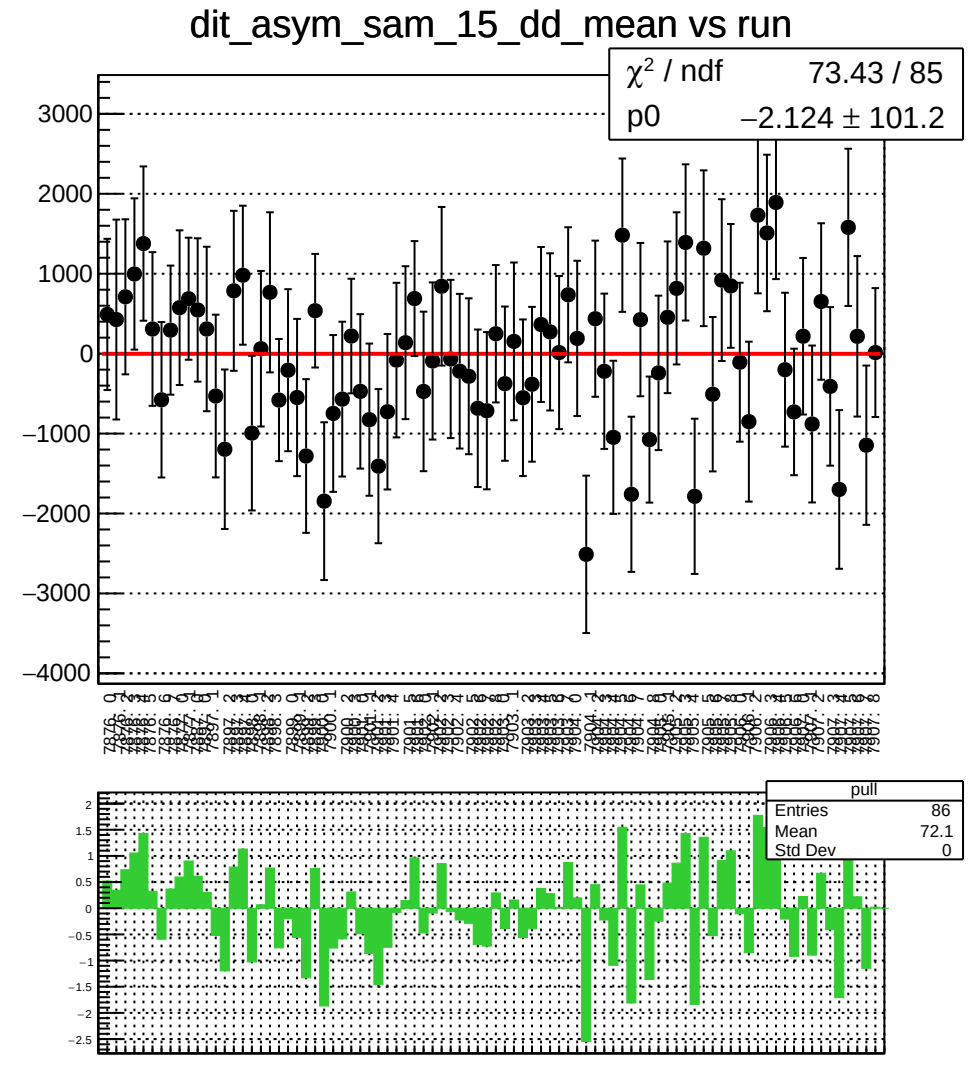

pull1D
Entries 86
Mean −0.01258
Std Dev 0.9555

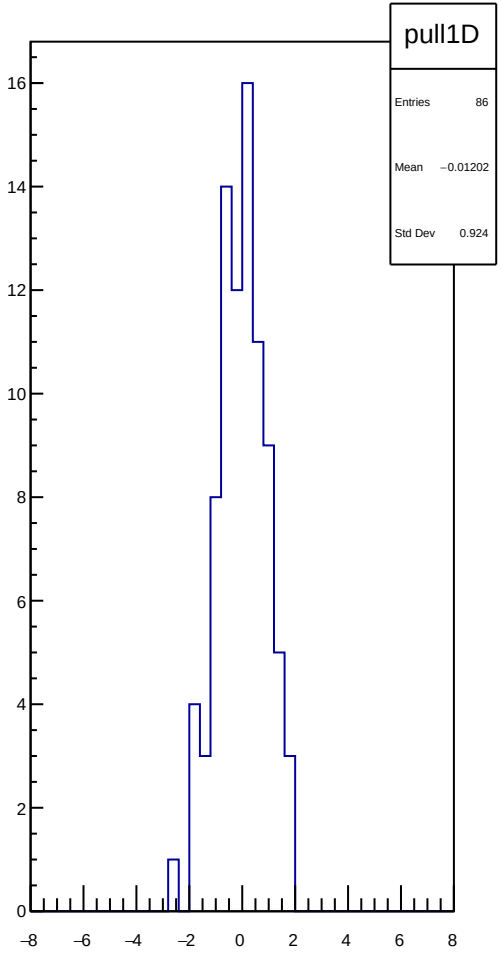

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1721 / 85
p0 83.62 ± 0.06439
115
110
105
100
95
90
85
80

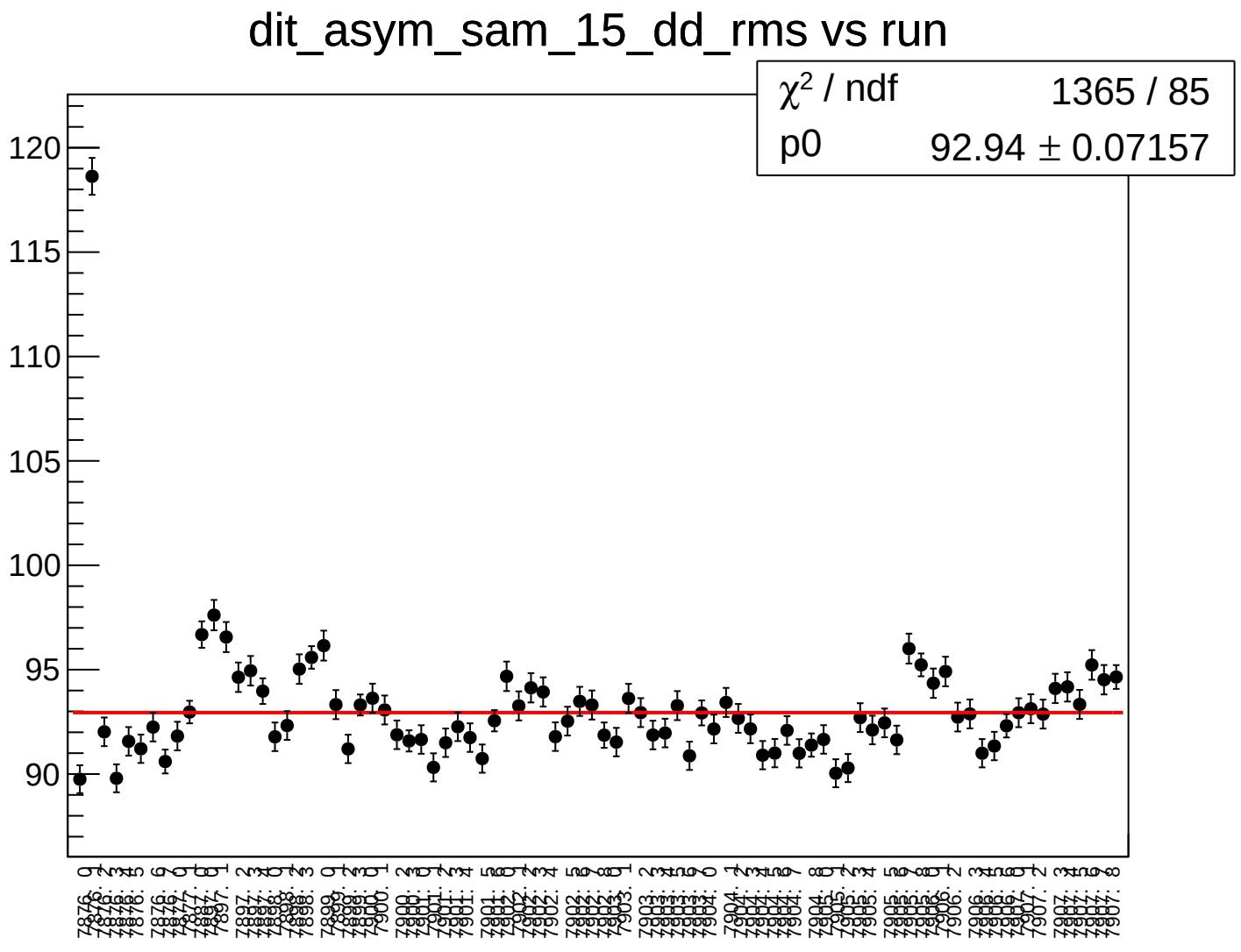

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.07 / 85
p0 −548.6 ± 641.7
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −64.29
Std Dev 0
2
1
0
−1
−2
−3

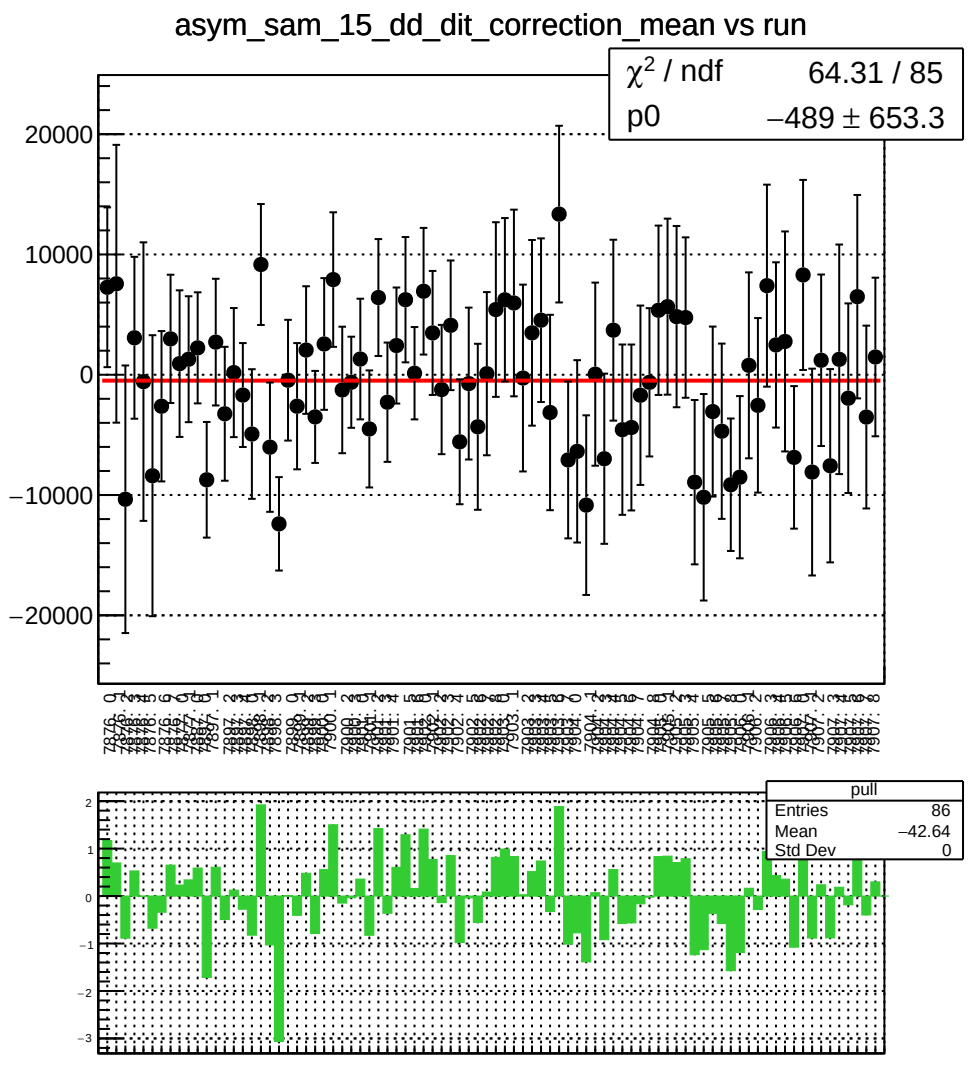

pull1D
Entries 86
Mean 0.01438
Std Dev 0.8697
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

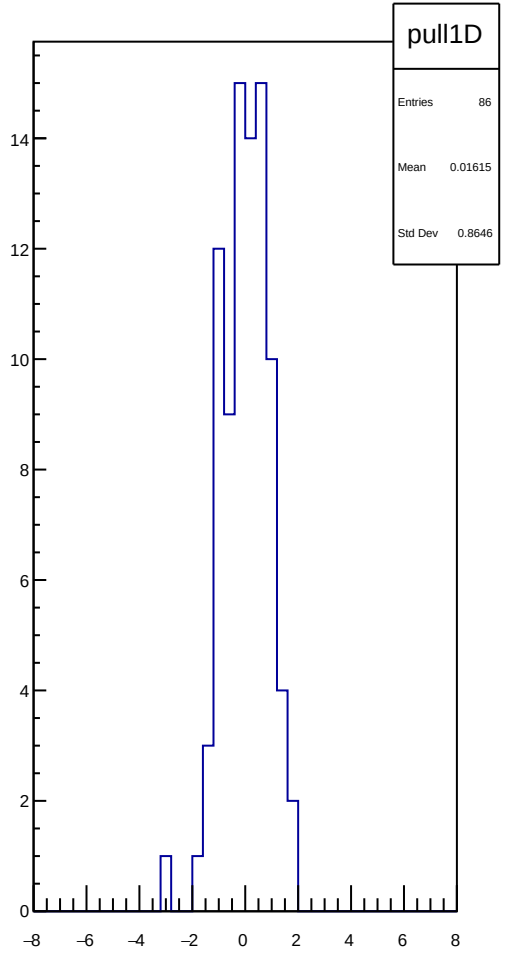

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.257e+04 / 85
p0 576.7 ± 0.4538
1200
1100
1000
900
800
700
600
500
400

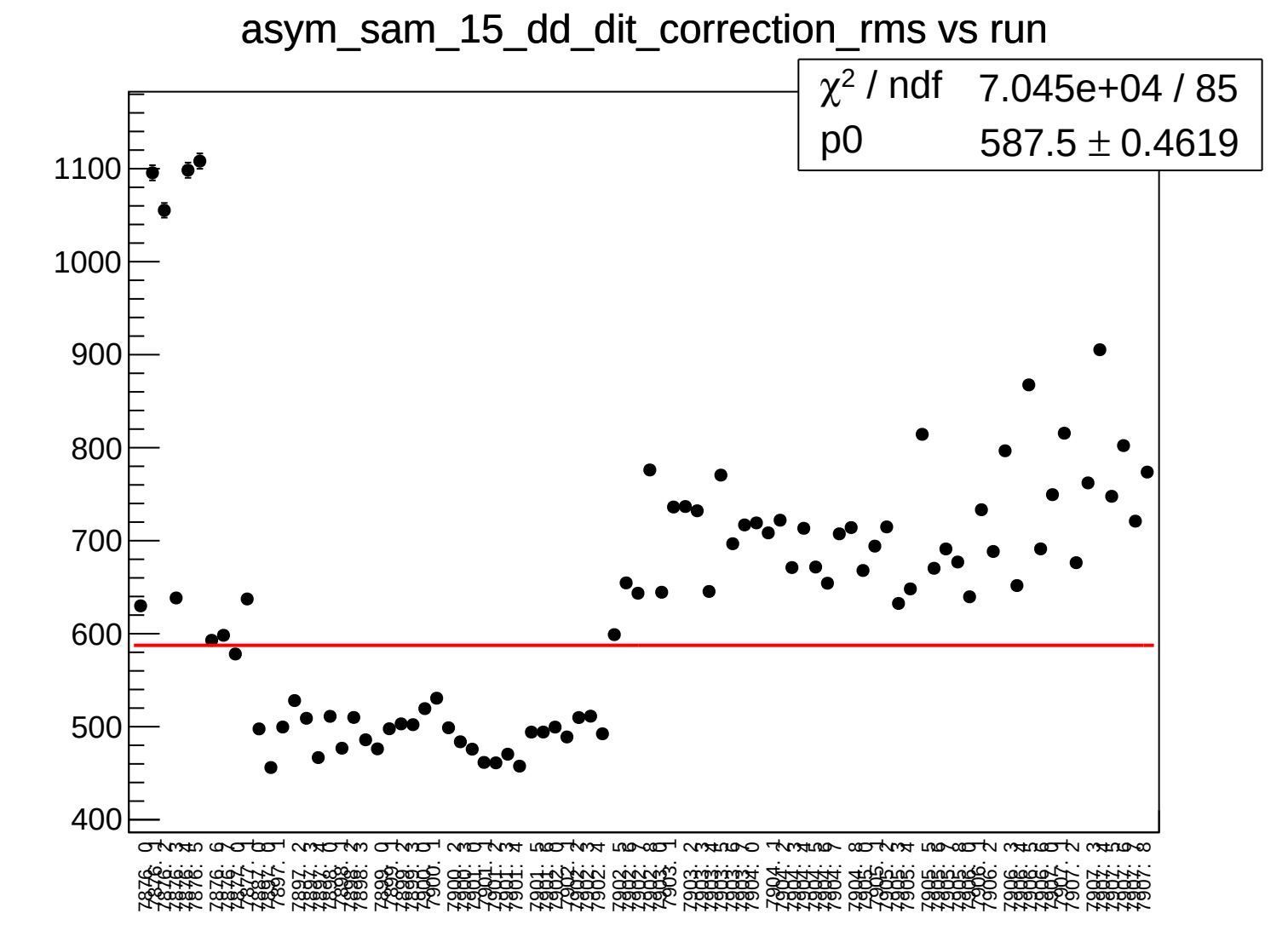

dit_asym_sam_15_dd_mean vs run
χ² / ndf 73.43 / 85
p0 −2.124 ± 101.2
pull
Entries 86
Mean 72.1
Std Dev 0

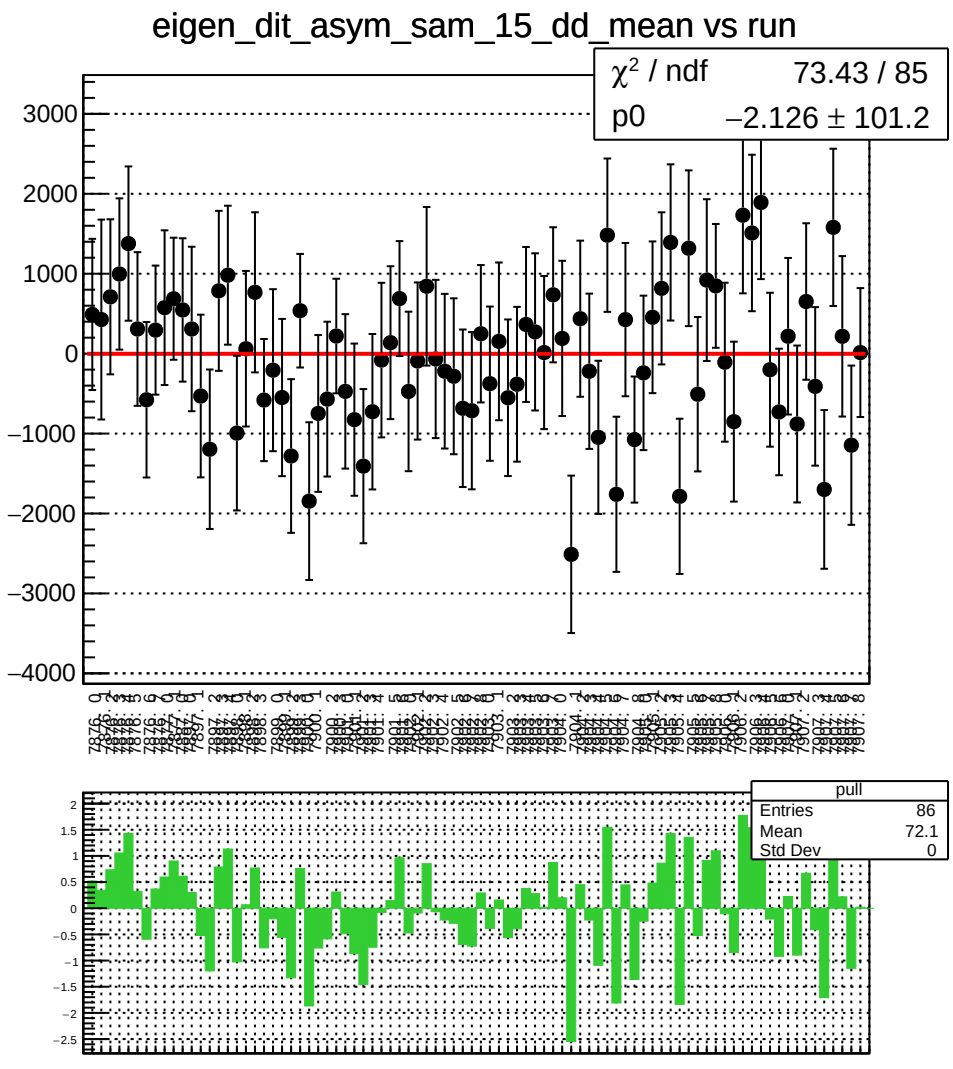

pull1D
Entries 86
Mean −0.01202
Std Dev 0.924

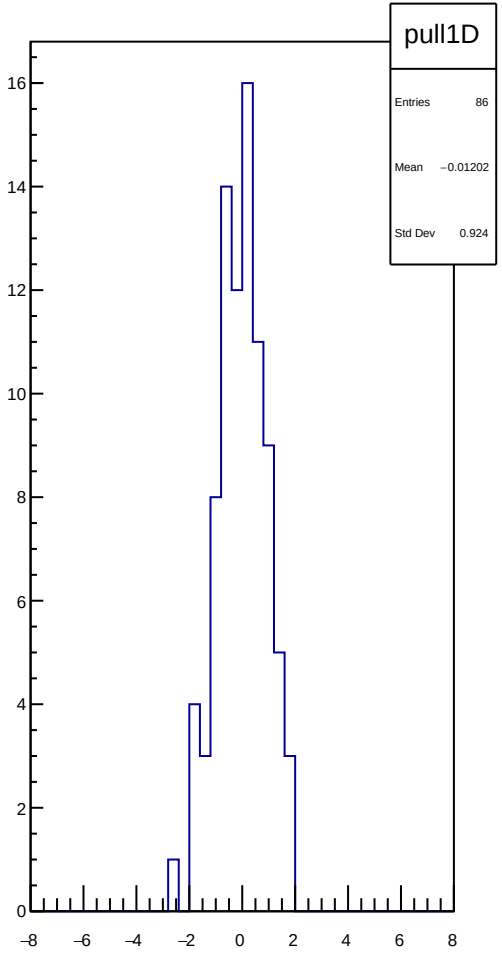

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 1365 / 85
p0 92.94 ± 0.07157
120
115
110
105
100
95
90

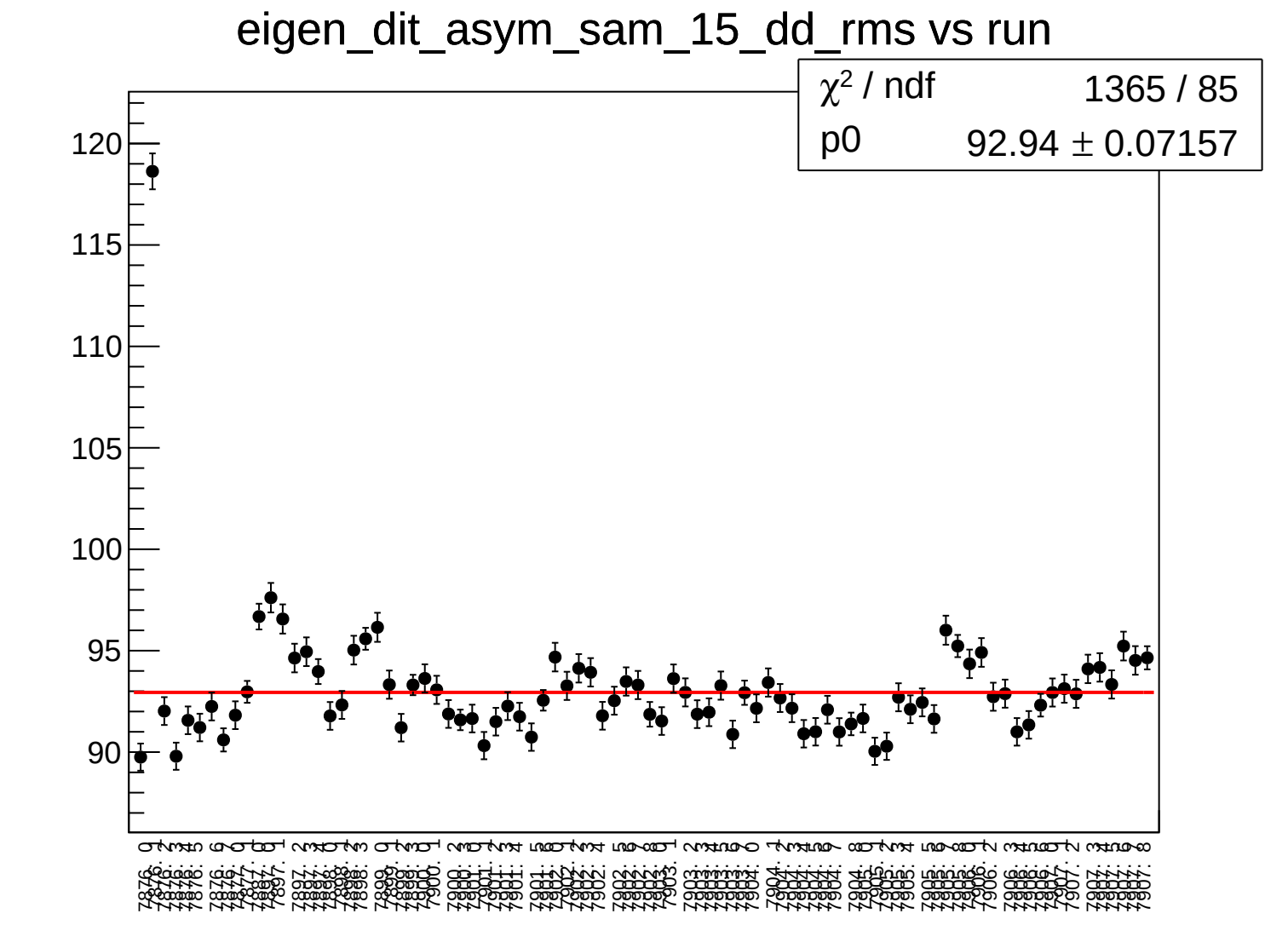

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 64.31 / 85
p0 −489 ± 653.3
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −42.64
Std Dev 0
2
1
0
−1
−2
−3

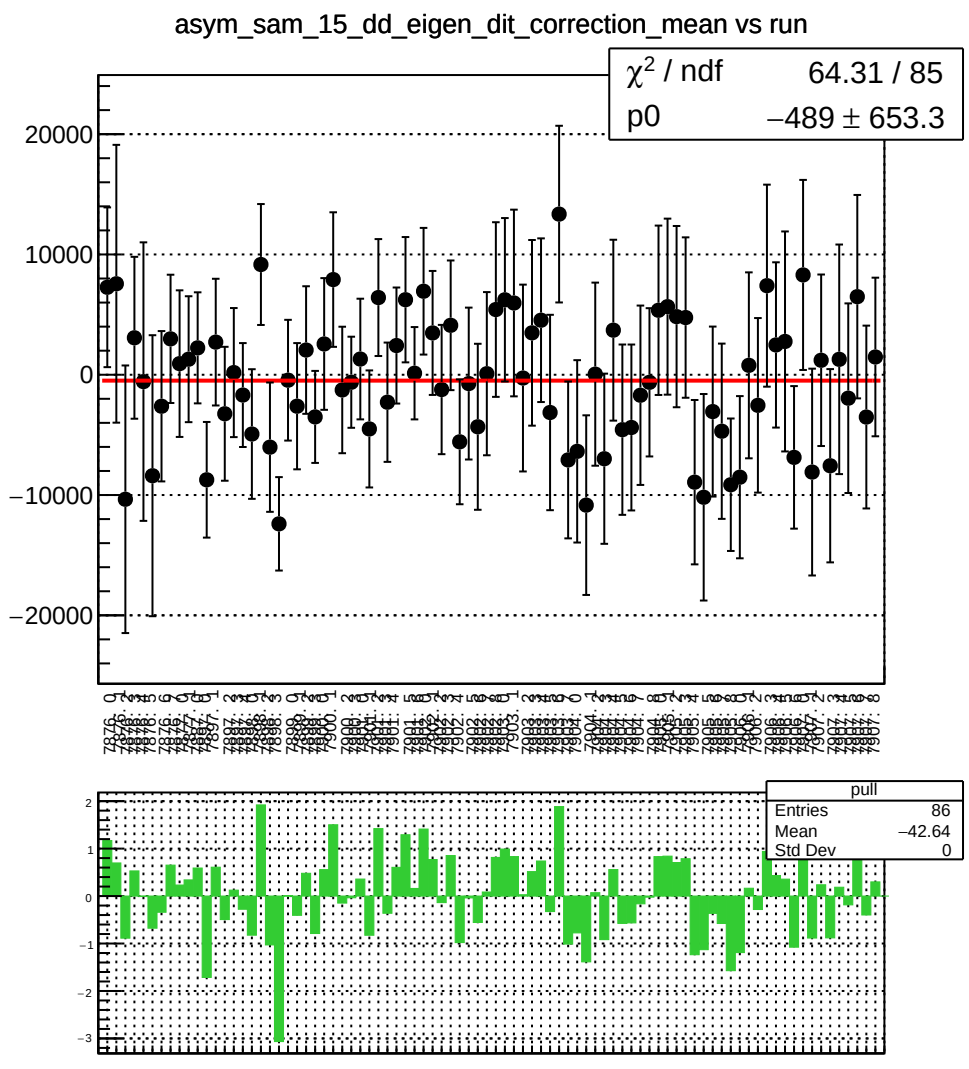

pull1D
Entries 86
Mean 0.01615
Std Dev 0.8646
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

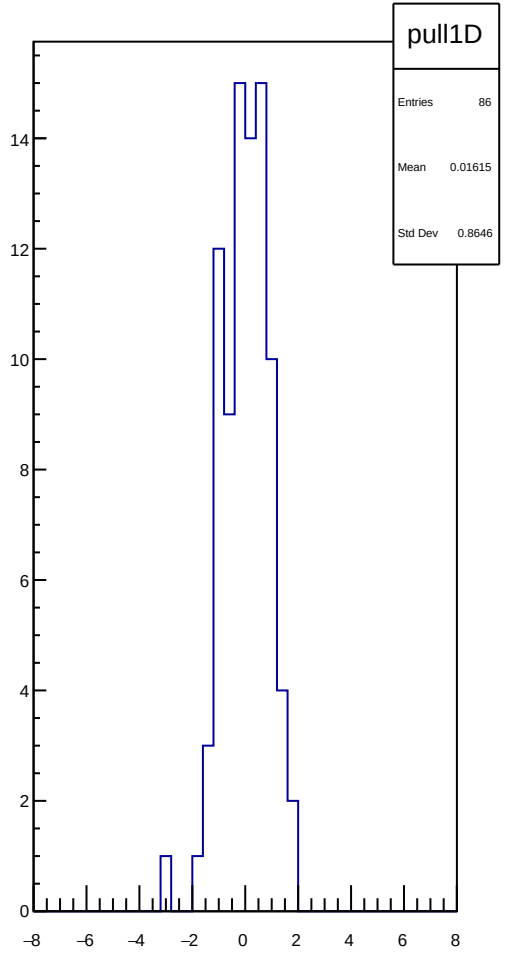

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 7.045e+04 / 85
p0 587.5 ± 0.4619
1100
1000
900
800
700
600
500
400

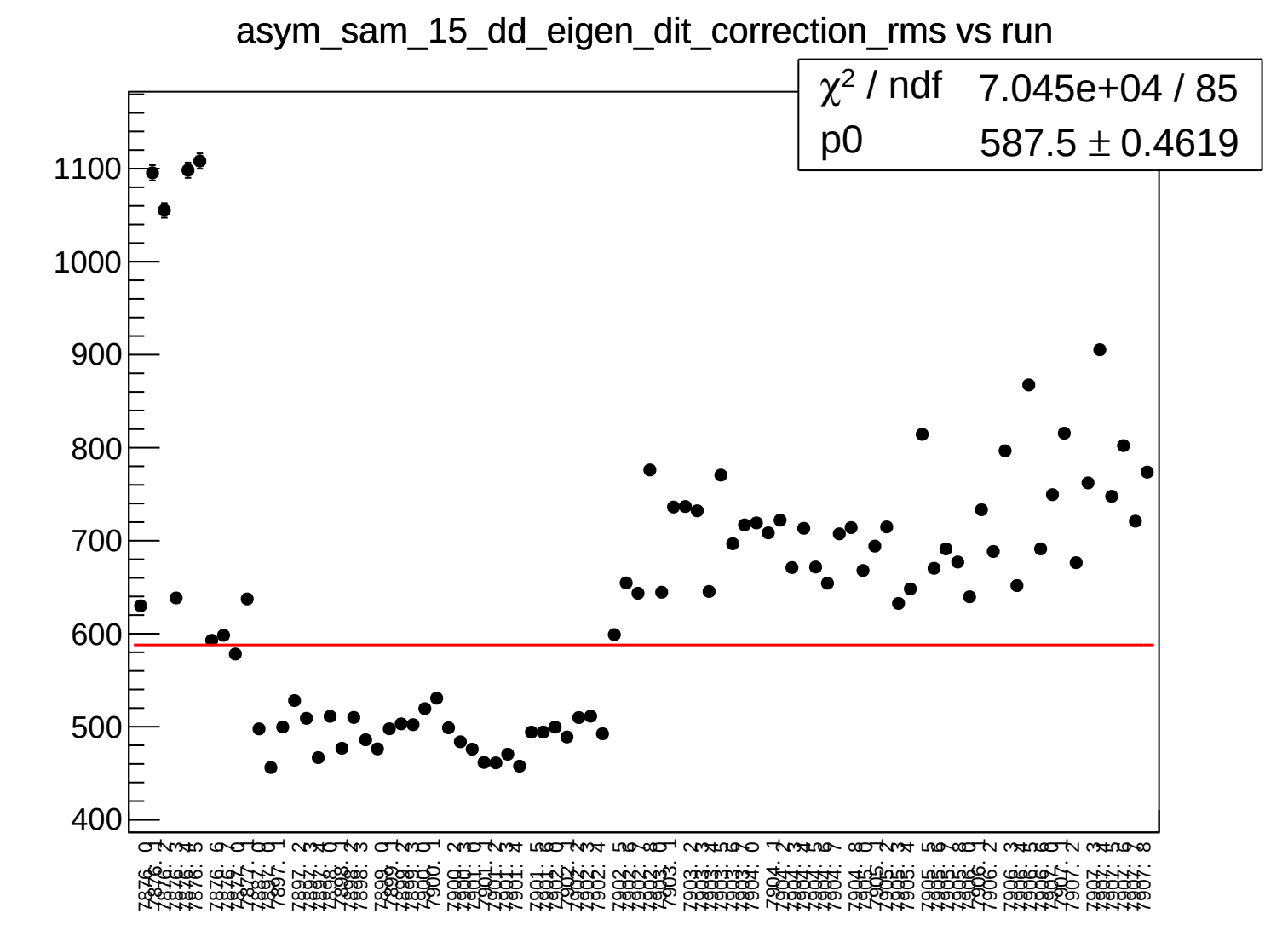

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 73.43 / 85
p0 −2.126 ± 101.2
pull
Entries 86
Mean 72.1
Std Dev 0

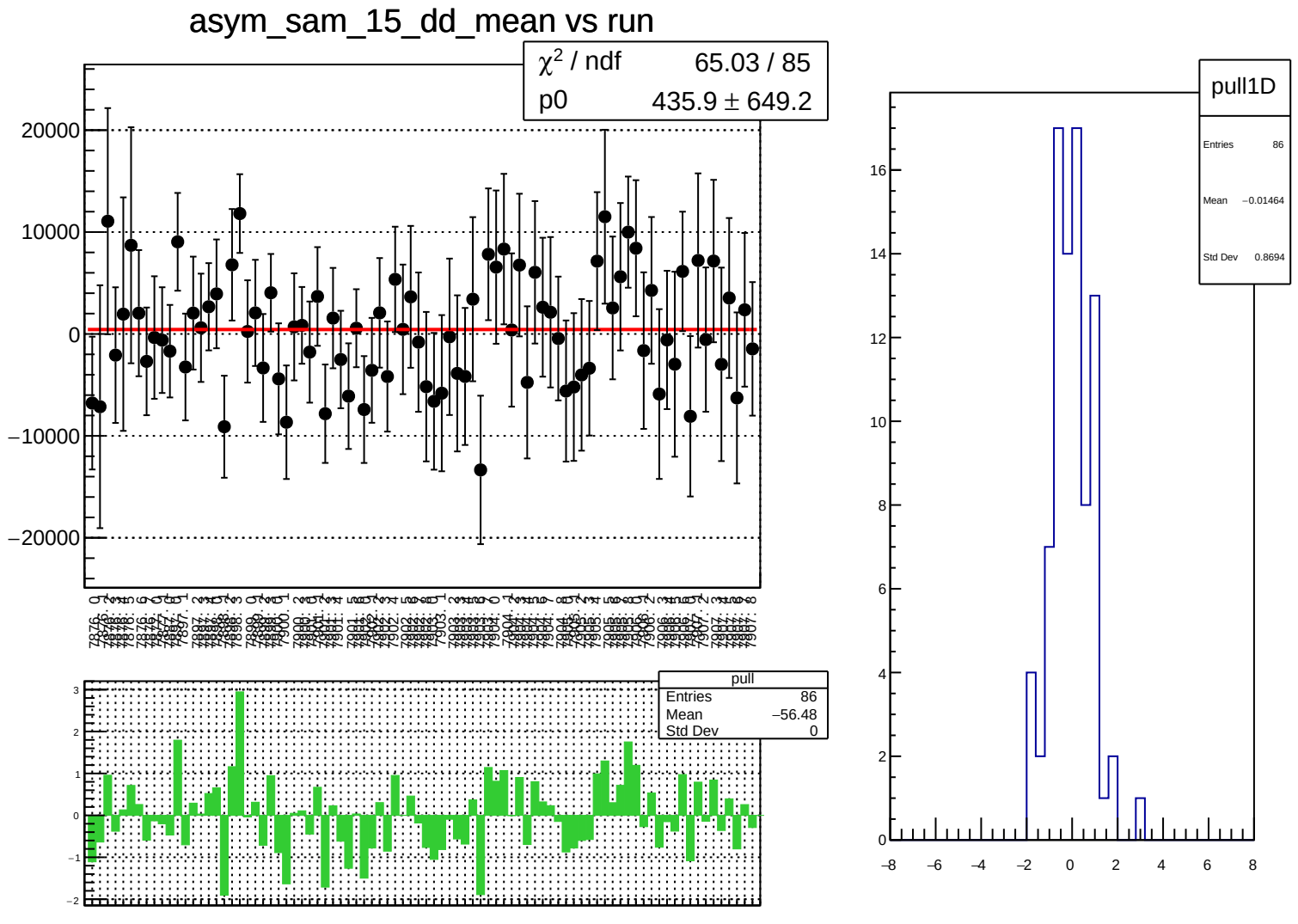

pull1D
Entries 86
Mean −0.01202
Std Dev 0.924

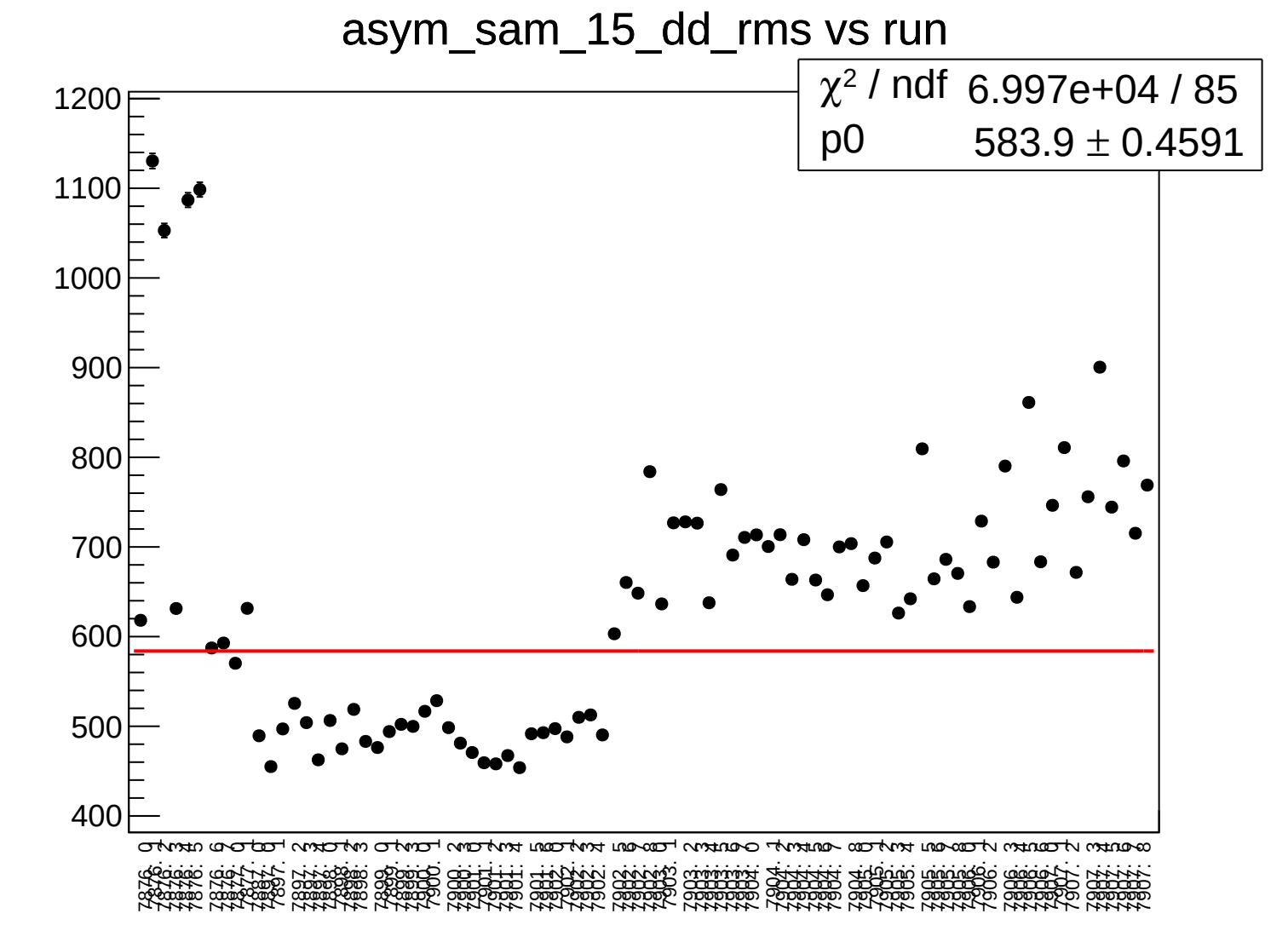

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 1365 / 85
p0 92.94 ± 0.07157
120
115
110
105
100
95
90

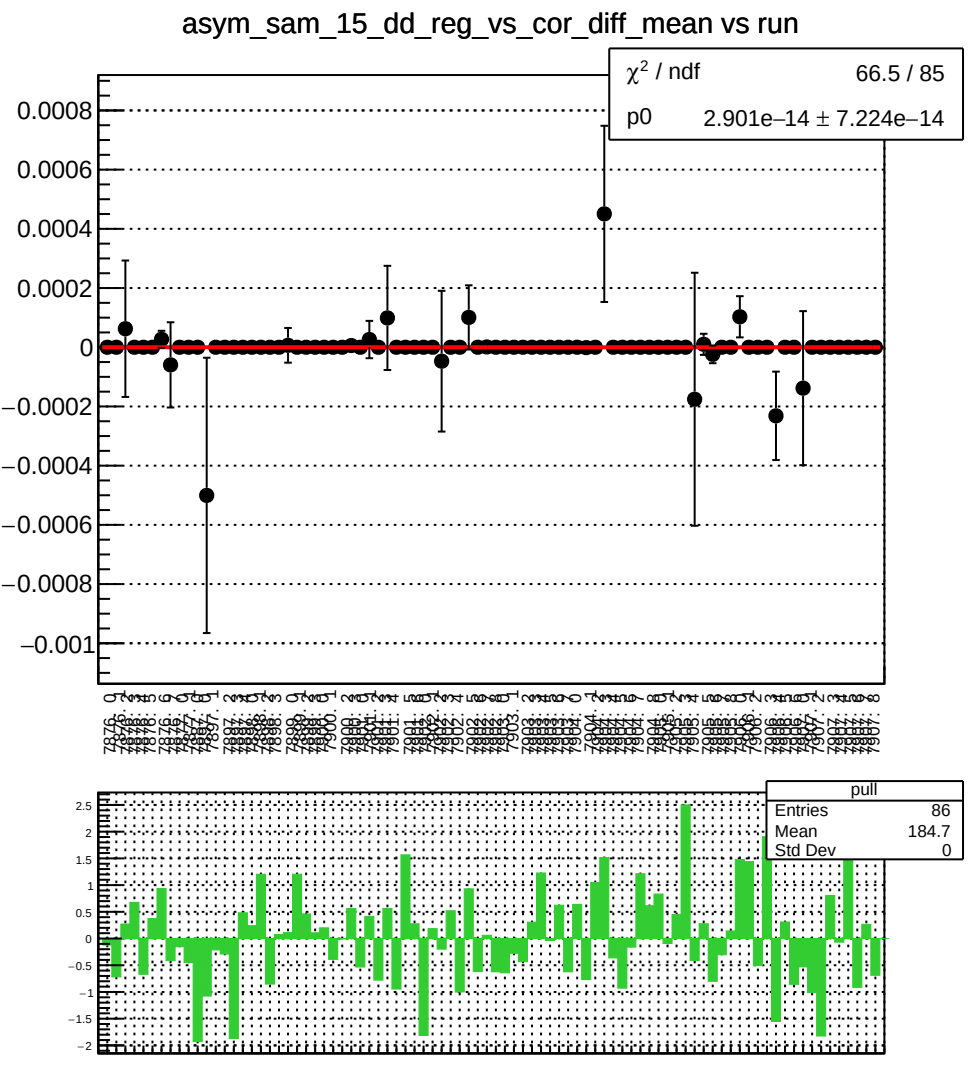

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.31 / 85
p0 −489 ± 653.3
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −42.64
Std Dev 0
2
1
0
−1
−2
−3

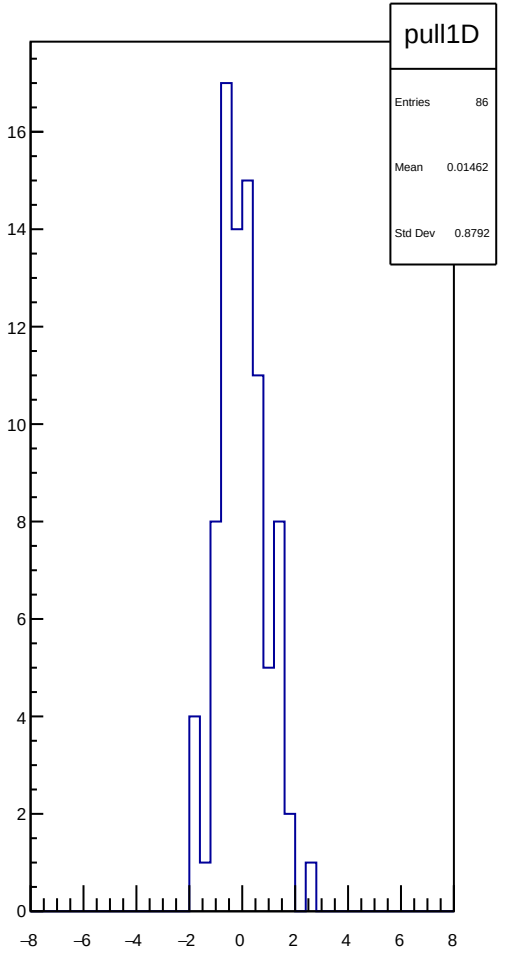

pull1D
Entries 86
Mean 0.01615
Std Dev 0.8646
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

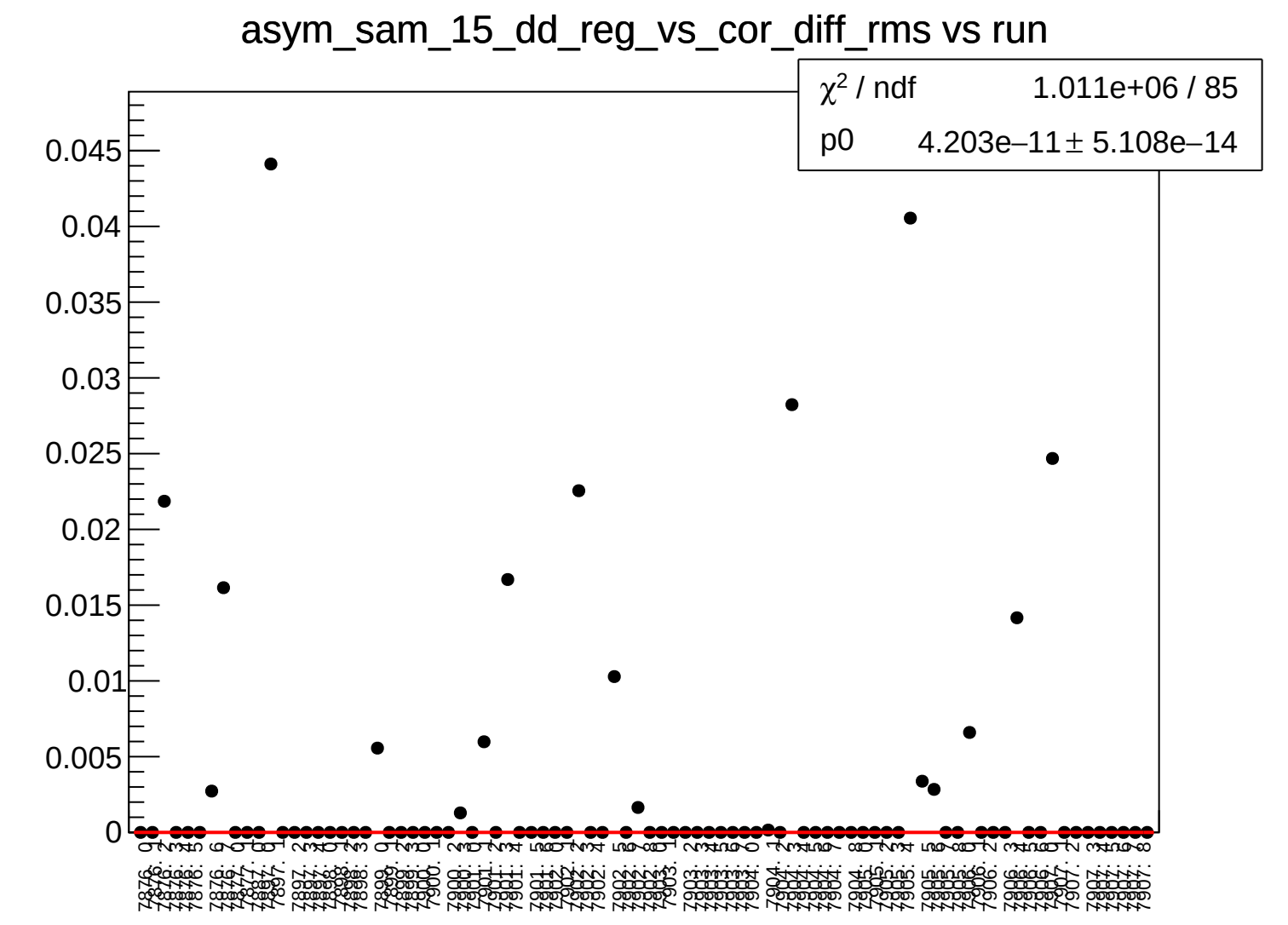

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 7.045e+04 / 85
p0 587.5 ± 0.4619
1100
1000
900
800
700
600
500
400

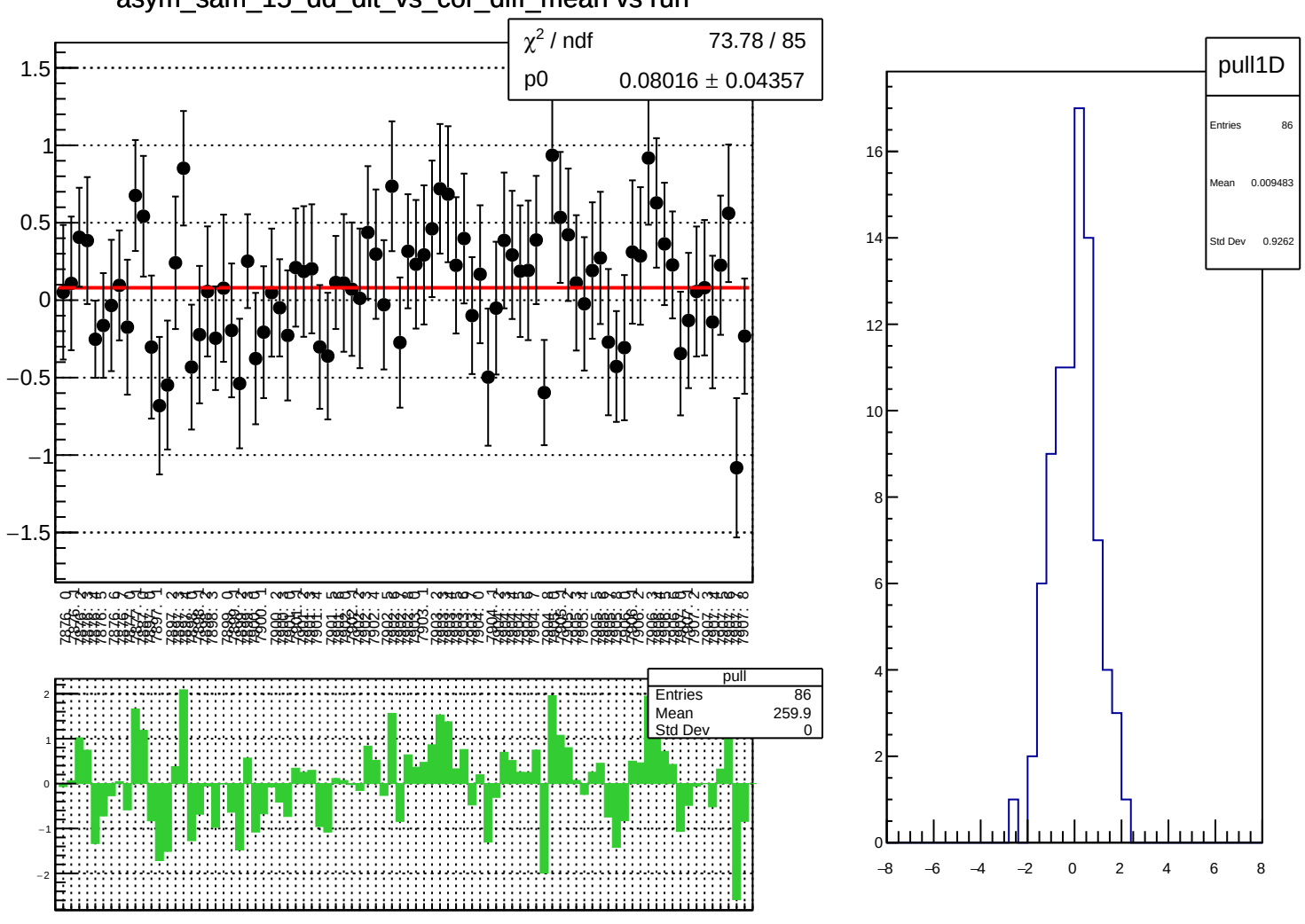

asym_sam_15_dd_mean vs run
χ² / ndf 65.03 / 85
p0 435.9 ± 649.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −56.48
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01464
Std Dev 0.8694
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

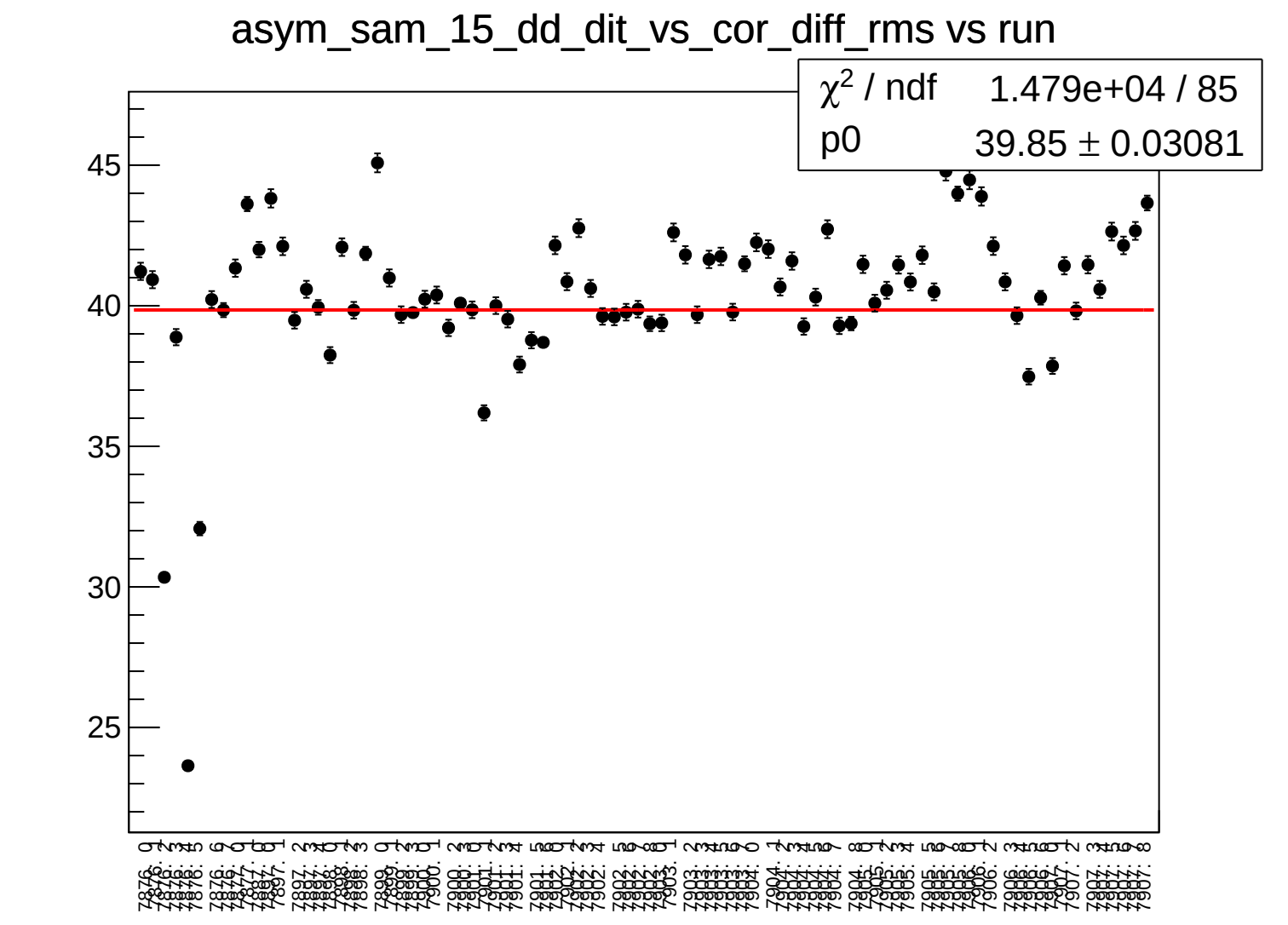

asym_sam_15_dd_rms vs run
χ² / ndf 6.997e+04 / 85
p0 583.9 ± 0.4591
1200
1100
1000
900
800
700
600
500
400

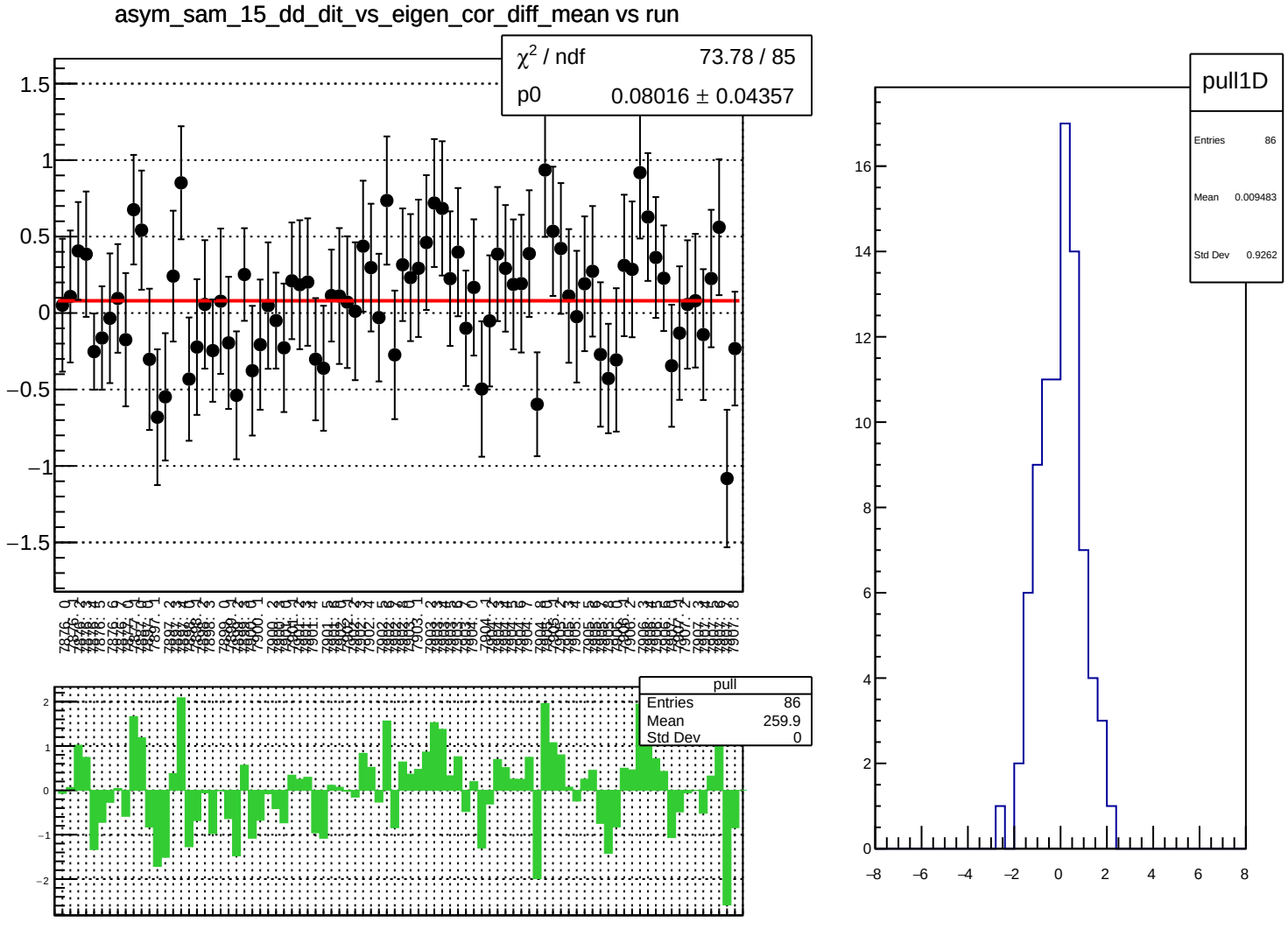

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.5 / 85
p0 2.901e−14 ± 7.224e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 86
Mean 184.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

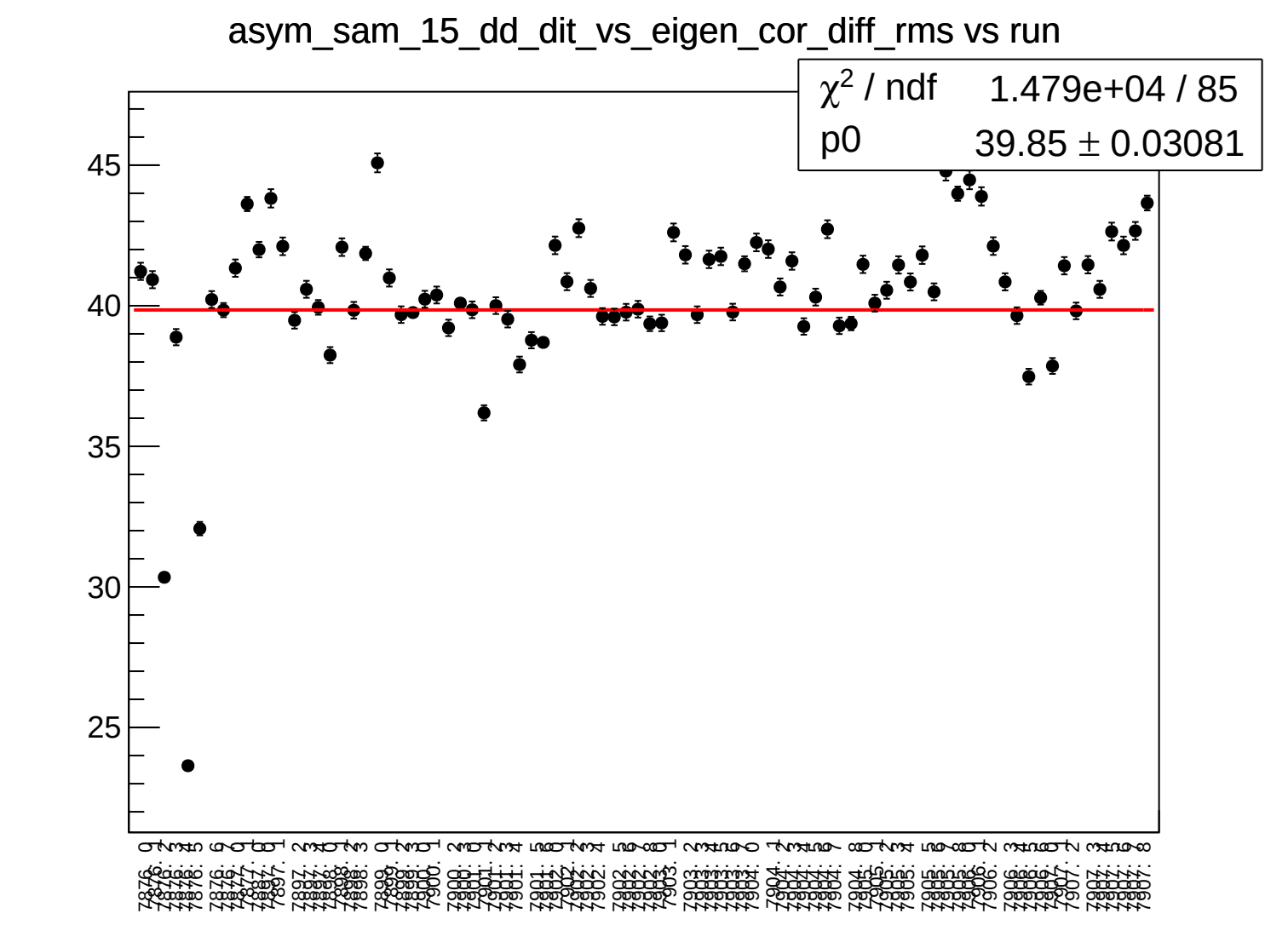

pull1D
Entries 86
Mean 0.01462
Std Dev 0.8792
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

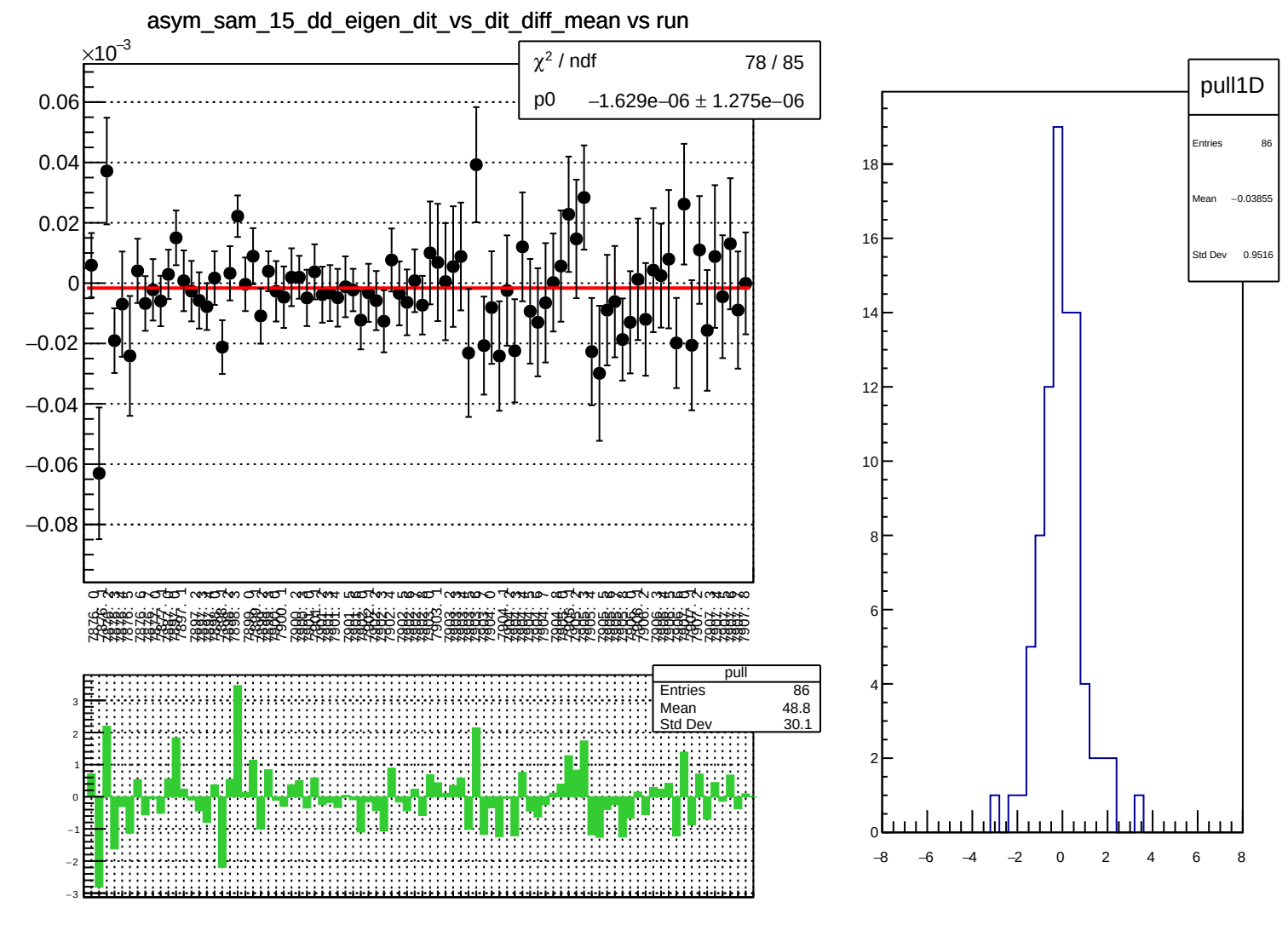

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 85
p0 4.203e−11 ± 5.108e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

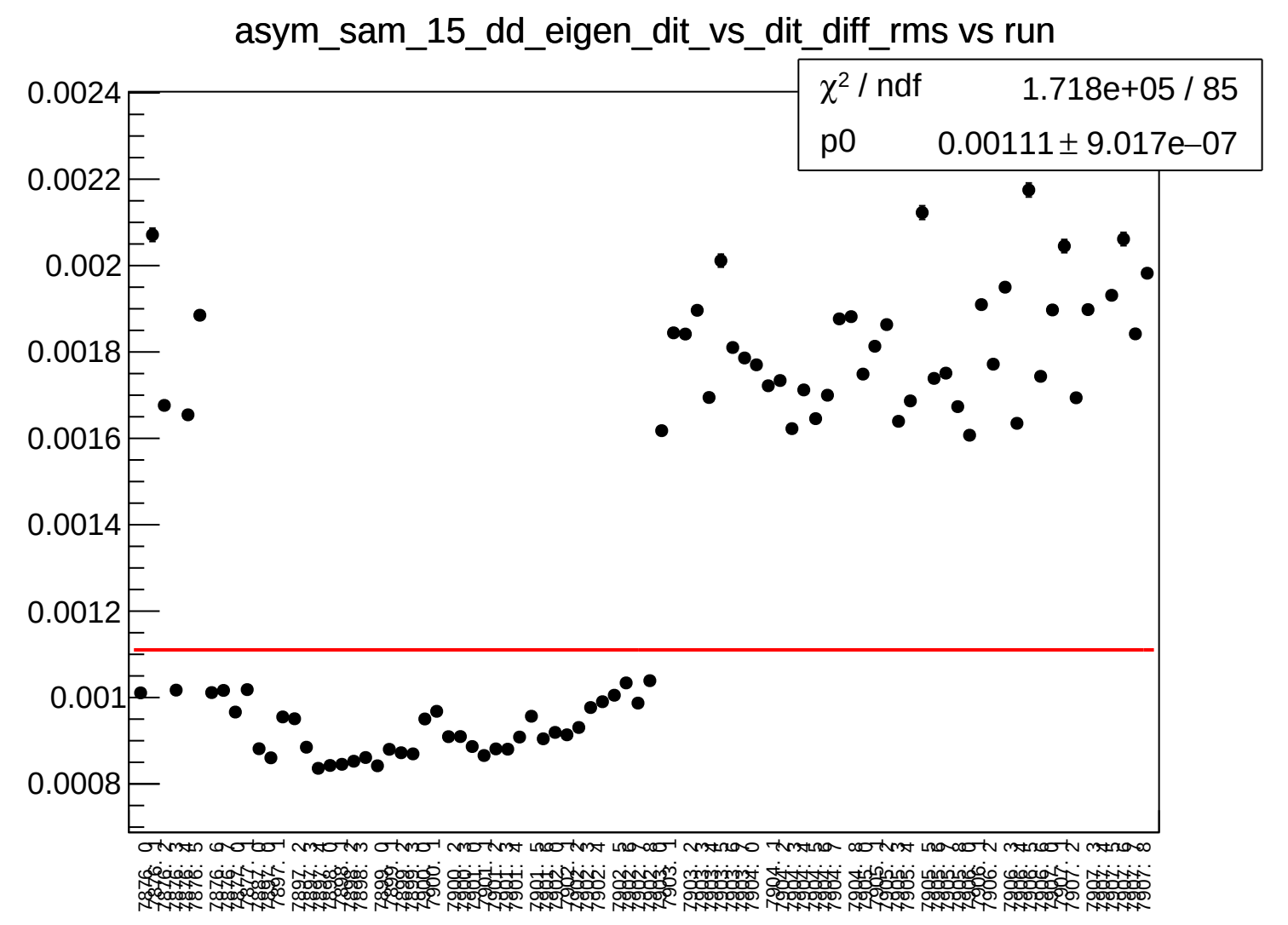

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.78 / 85
p0 0.08016 ± 0.04357
pull
Entries 86
Mean 259.9
Std Dev 0
pull1D
Entries 86
Mean 0.009483
Std Dev 0.9262

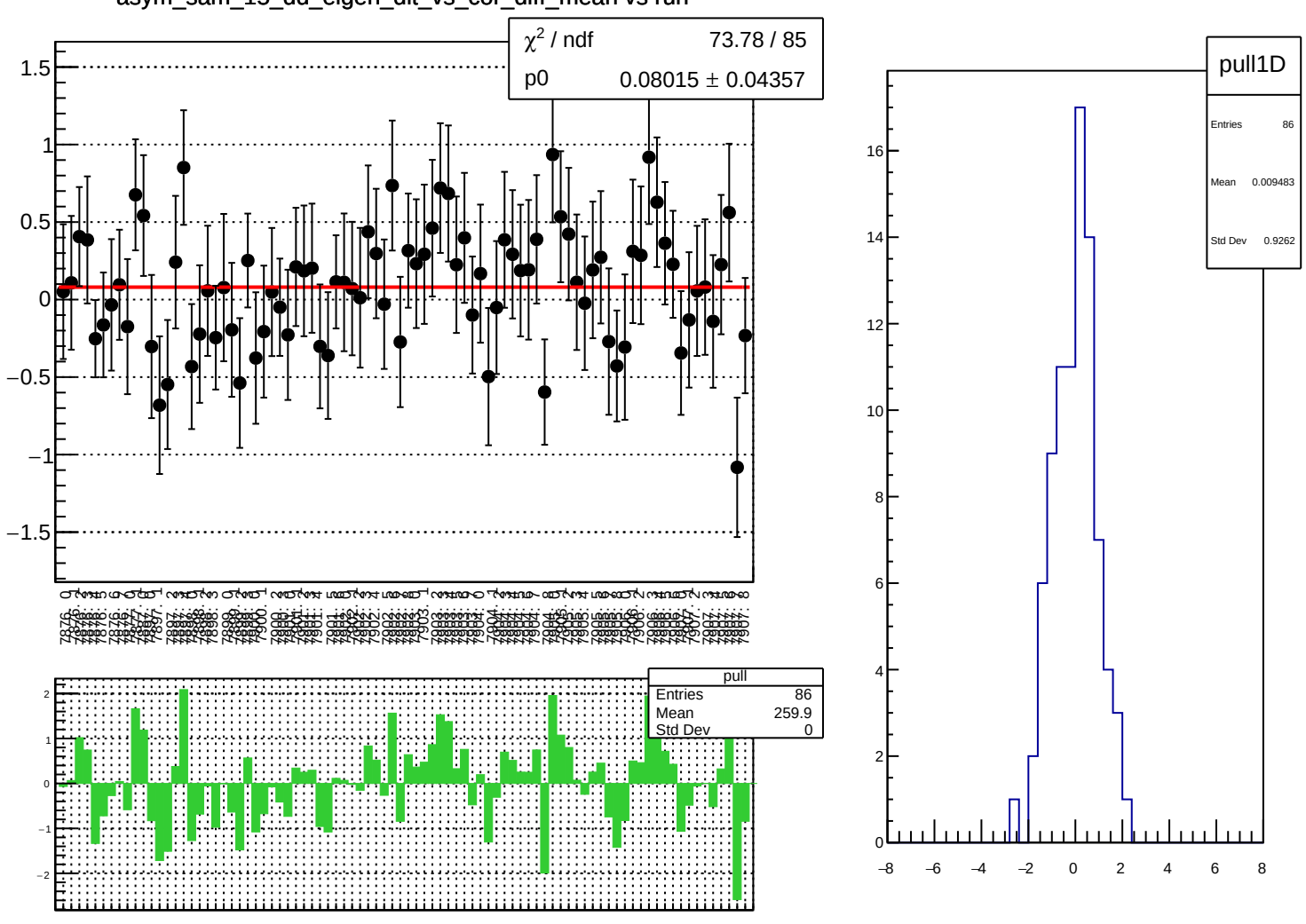

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.479e+04 / 85
p0 39.85 ± 0.03081
45
40
35
30
25

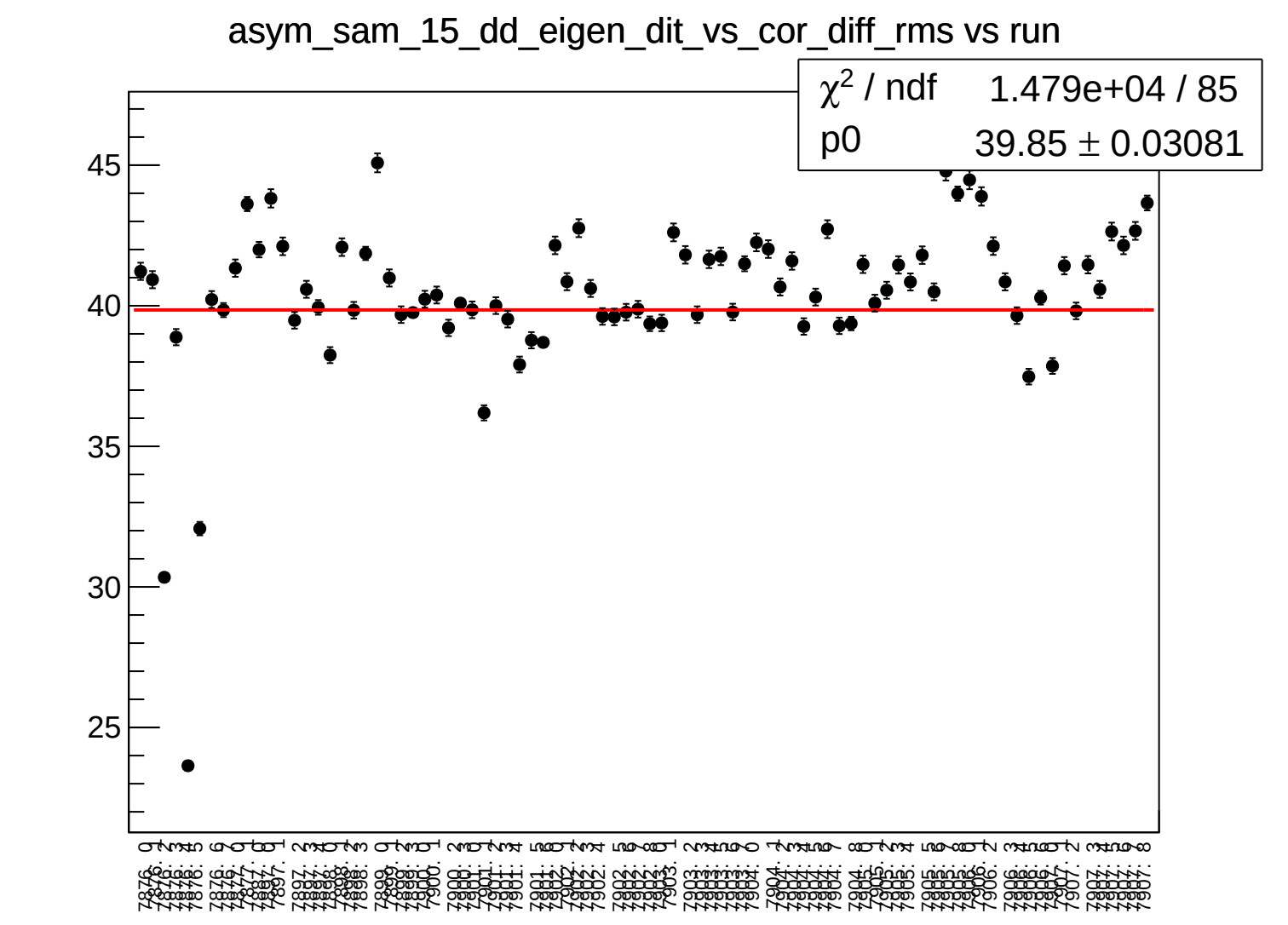

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.78 / 85
p0 0.08016 ± 0.04357
pull
Entries 86
Mean 259.9
Std Dev 0
pull1D
Entries 86
Mean 0.009483
Std Dev 0.9262

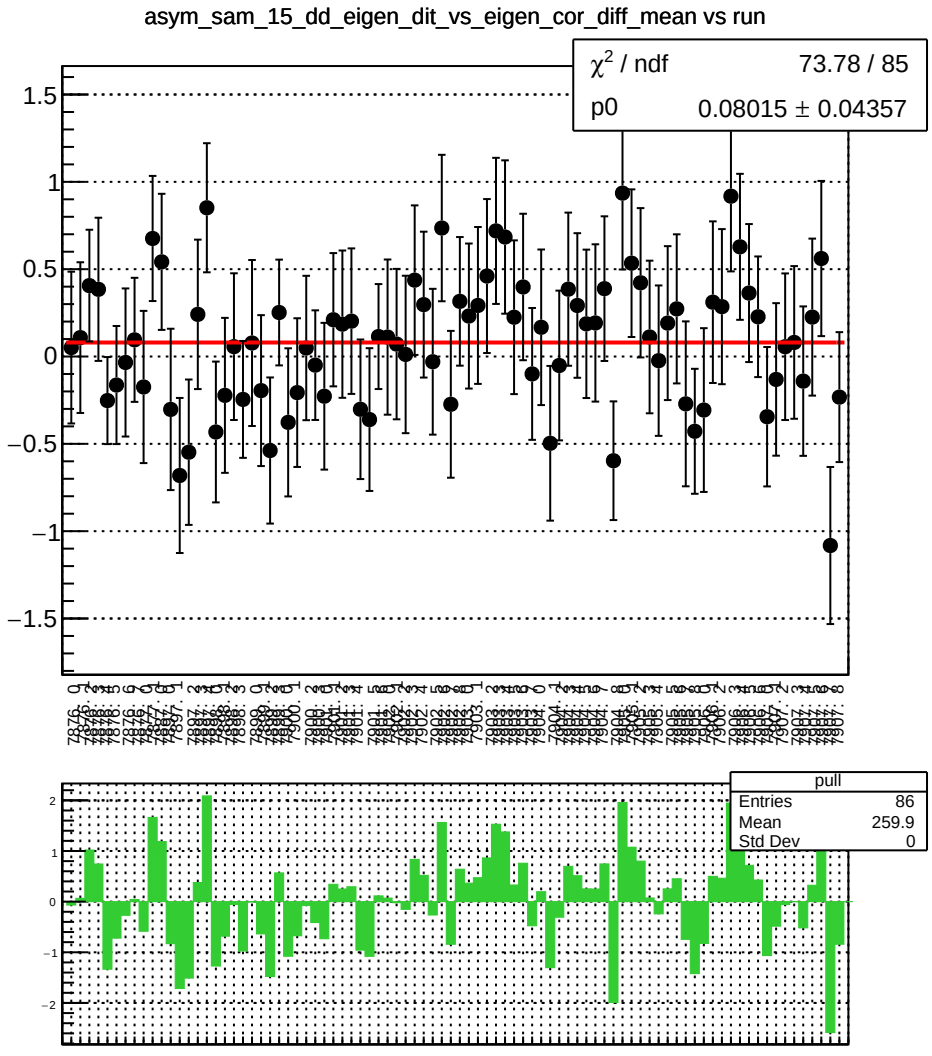

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.479e+04 / 85
p0 39.85 ± 0.03081
45
40
35
30
25

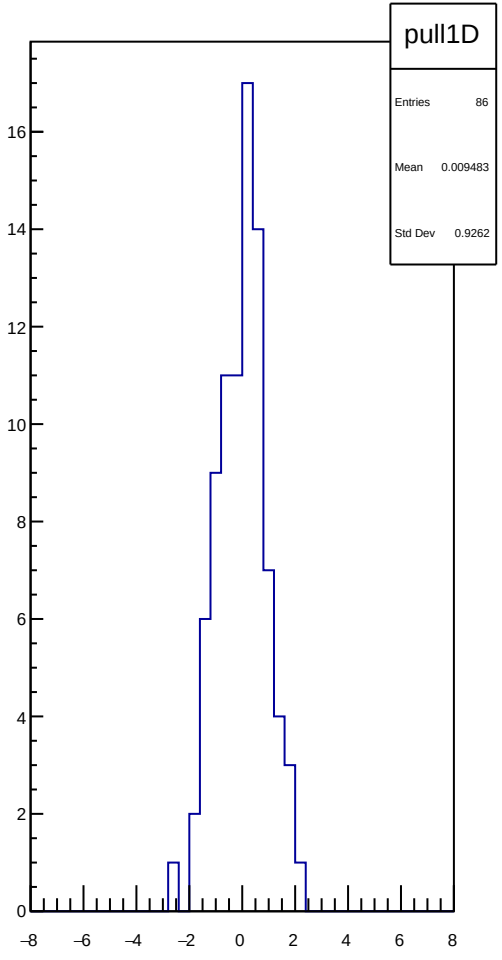

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78 / 85
p0 −1.629e−06 ± 1.275e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean 48.8
Std Dev 30.1
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.03855
Std Dev 0.9516
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

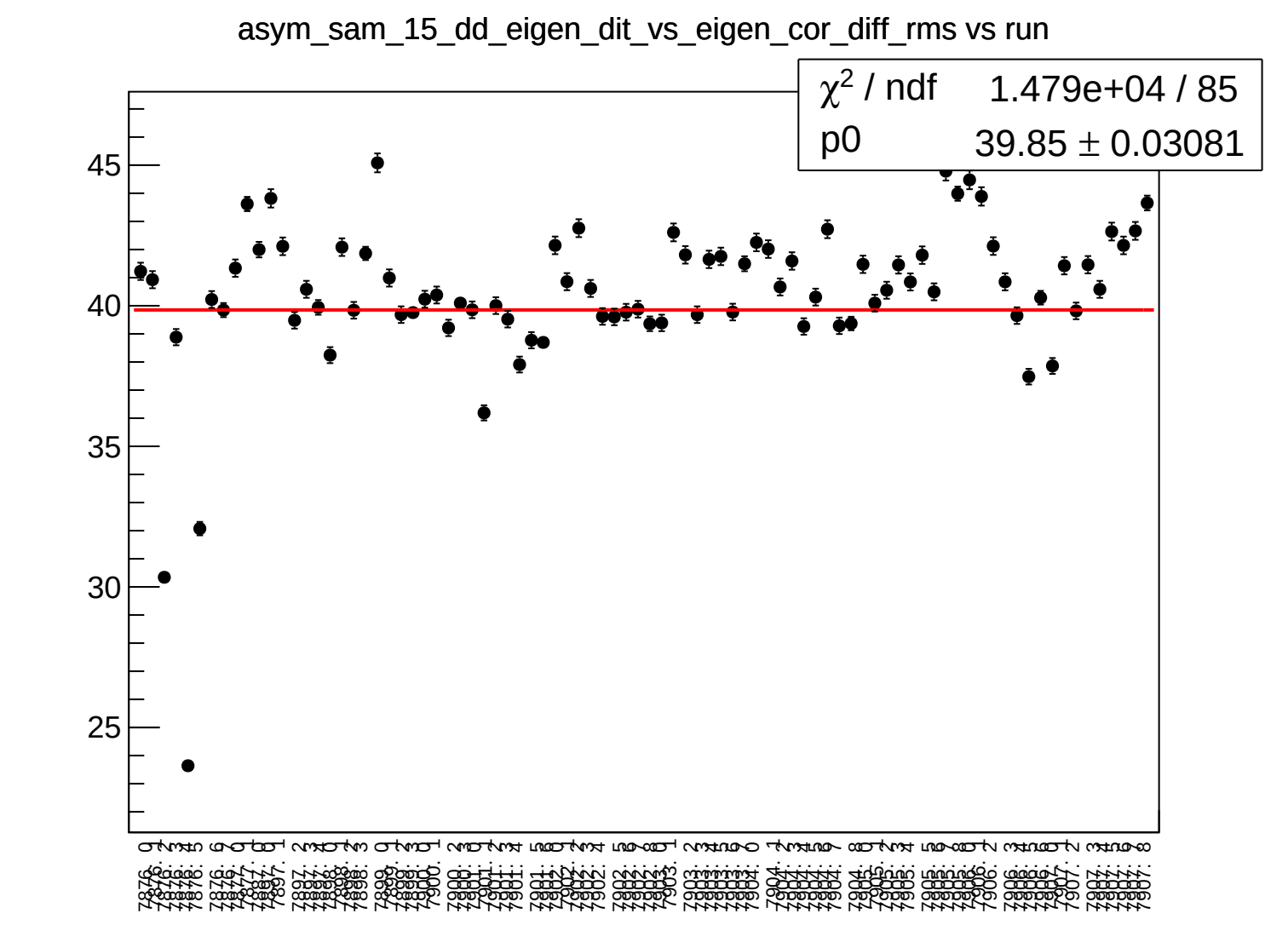

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.718e+05 / 85
p0 0.00111 ± 9.017e–07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

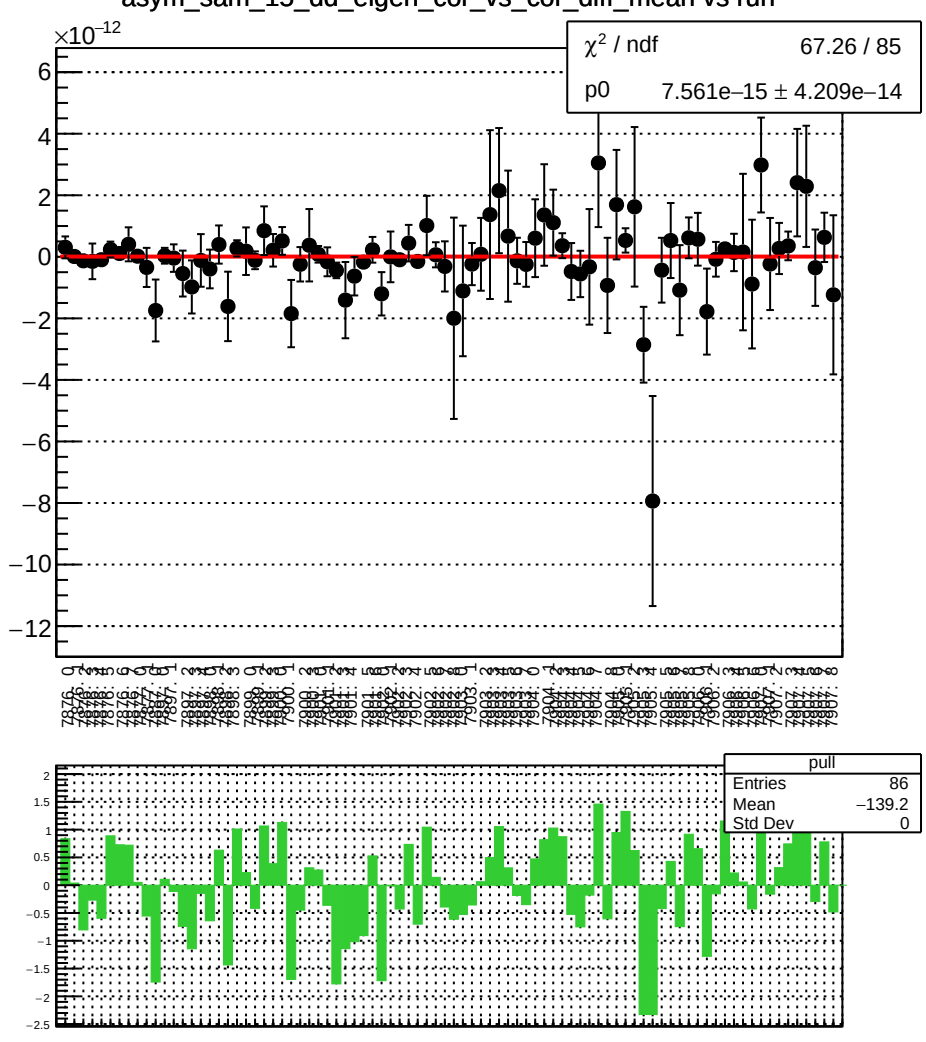

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.78 / 85
p0 0.08015 ± 0.04357
pull
Entries 86
Mean 259.9
Std Dev 0
pull1D
Entries 86
Mean 0.009483
Std Dev 0.9262

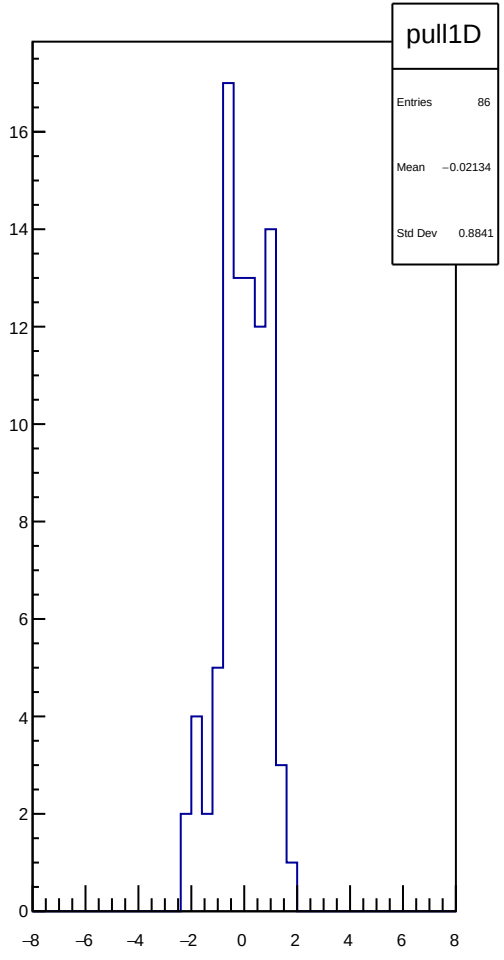

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.479e+04 / 85
p0 39.85 ± 0.03081
45
40
35
30
25

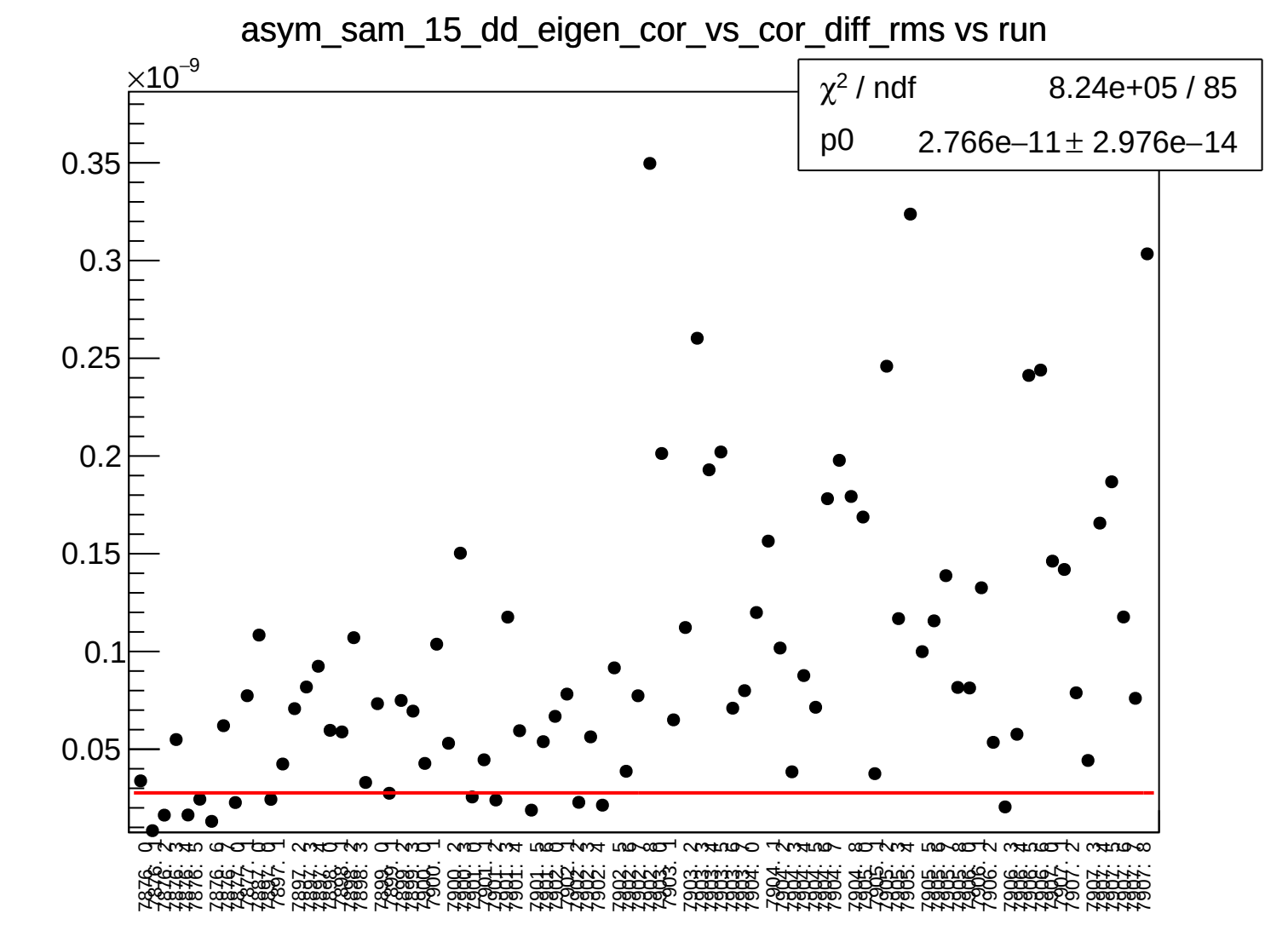

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.78 / 85
p0 0.08015 ± 0.04357
pull
Entries 86
Mean 259.9
Std Dev 0

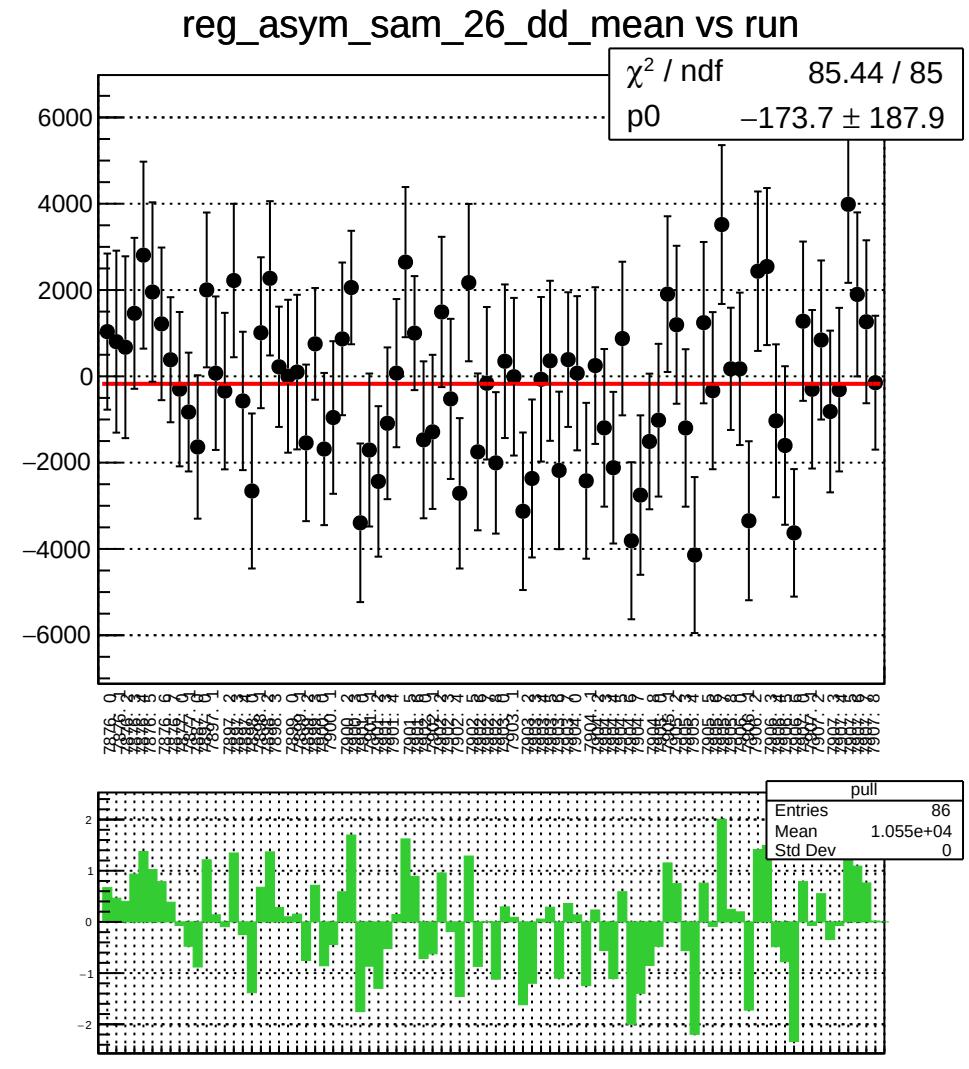

pull1D
Entries 86
Mean 0.009483
Std Dev 0.9262

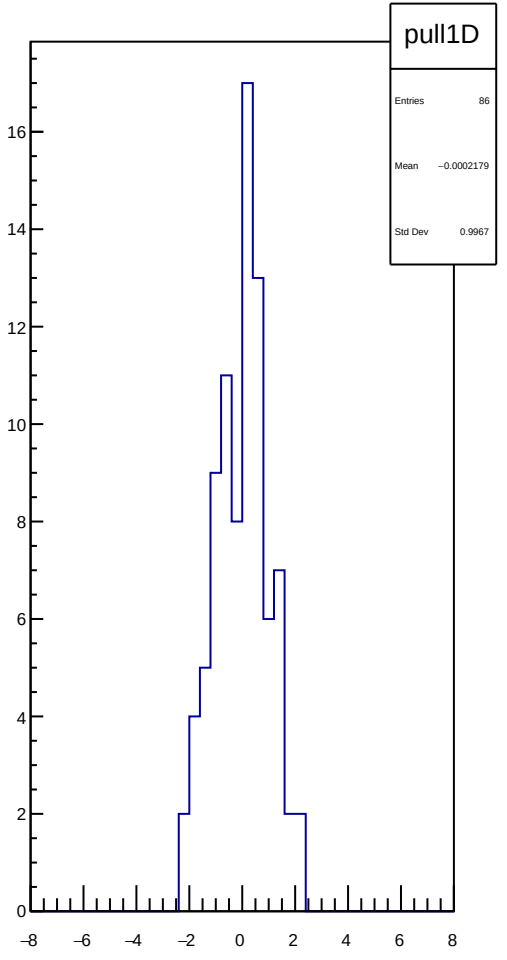

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.479e+04 / 85
p0 39.85 ± 0.03081
45
40
35
30
25

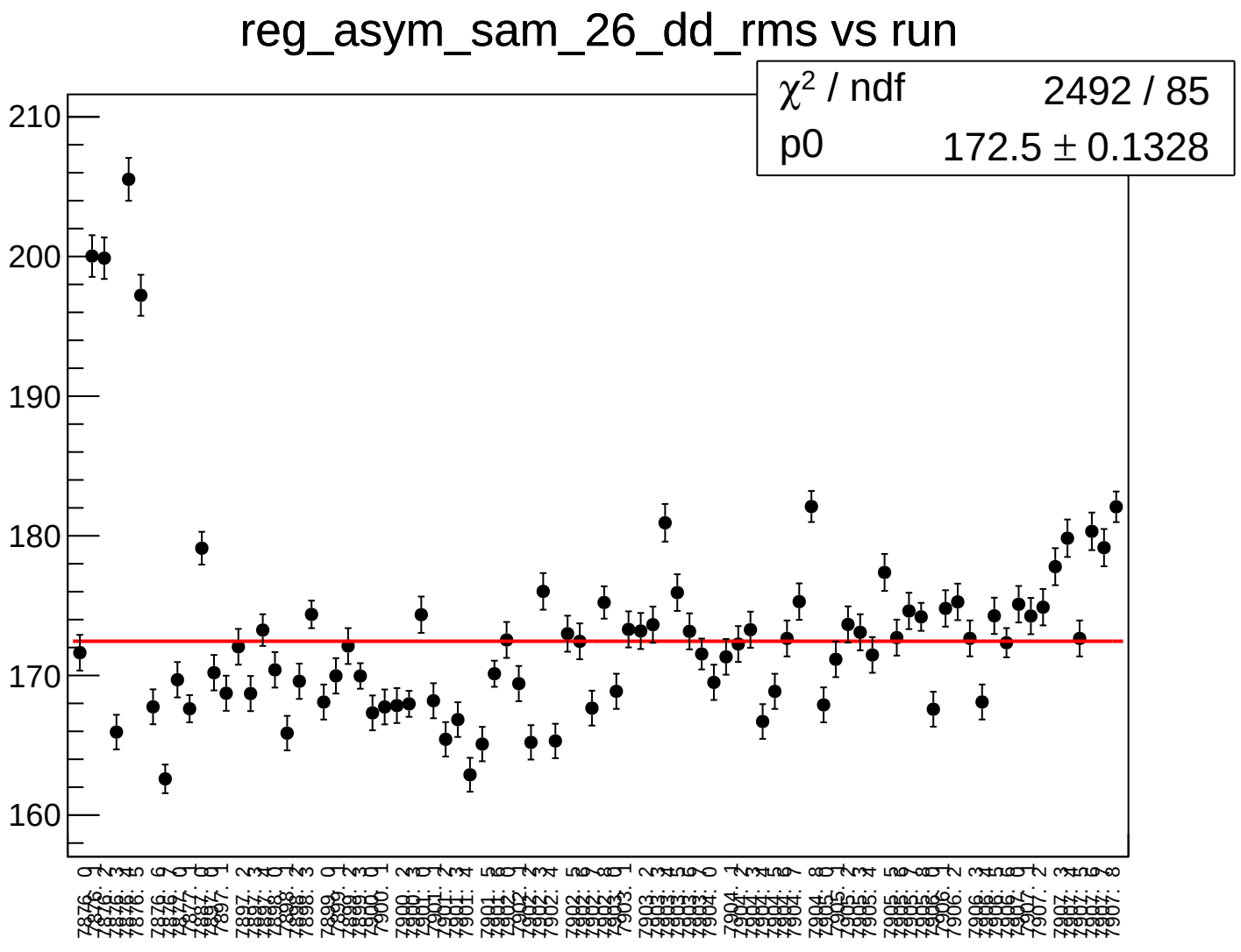

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.26 / 85
p0 7.561e−15 ± 4.209e−14
pull
Entries 86
Mean −139.2
Std Dev 0

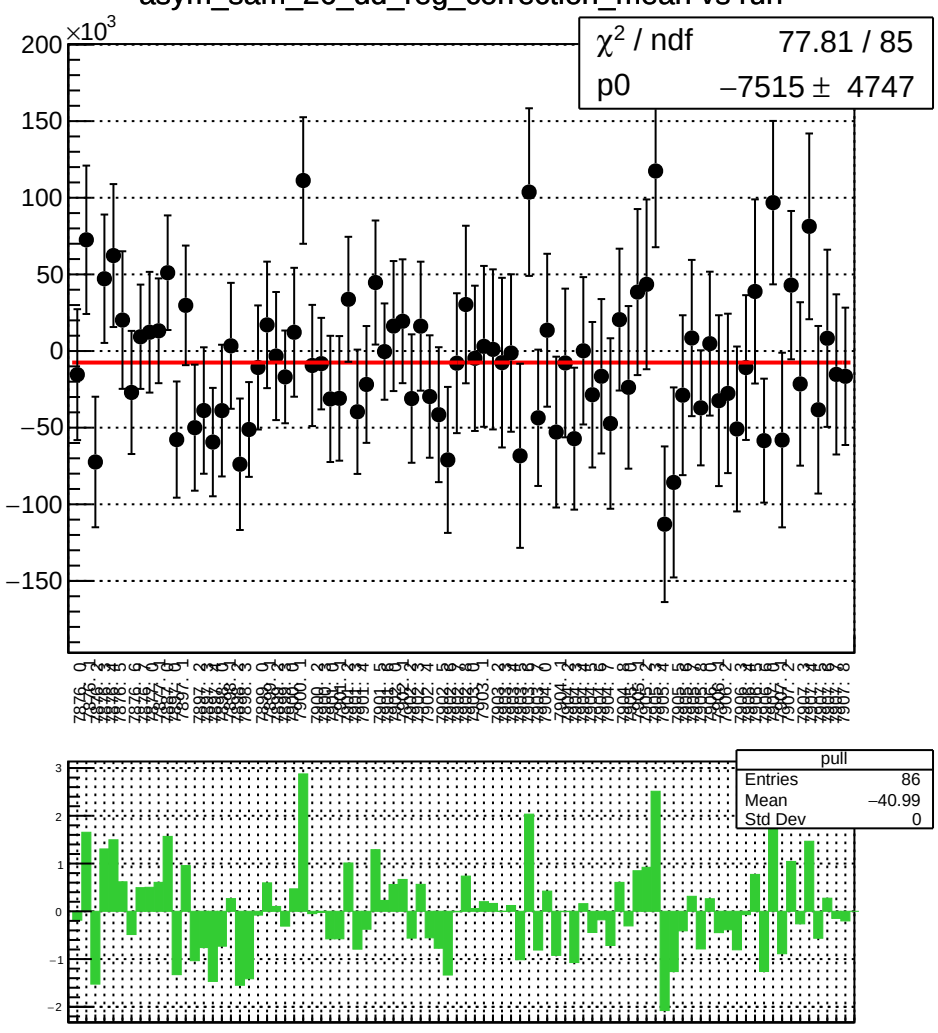

pull1D
Entries 86
Mean −0.02134
Std Dev 0.8841

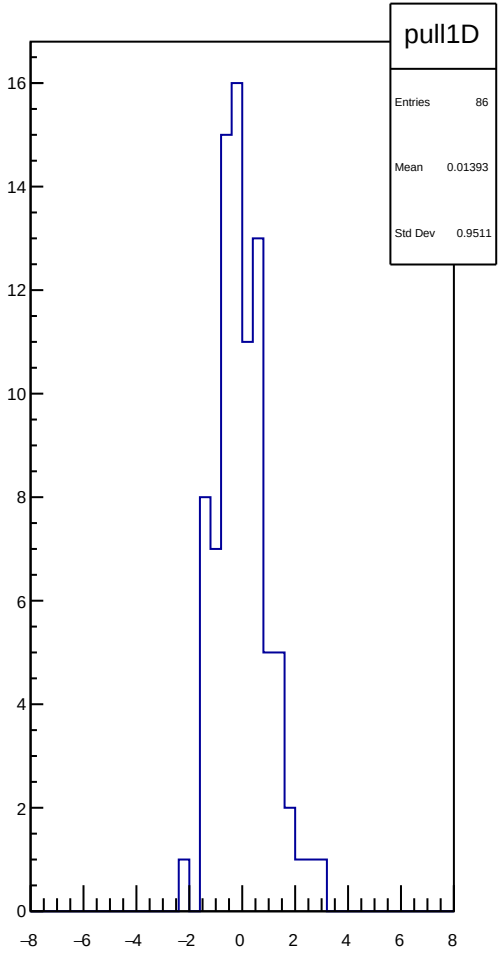

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.24e+05 / 85
p0 2.766e−11 ± 2.976e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

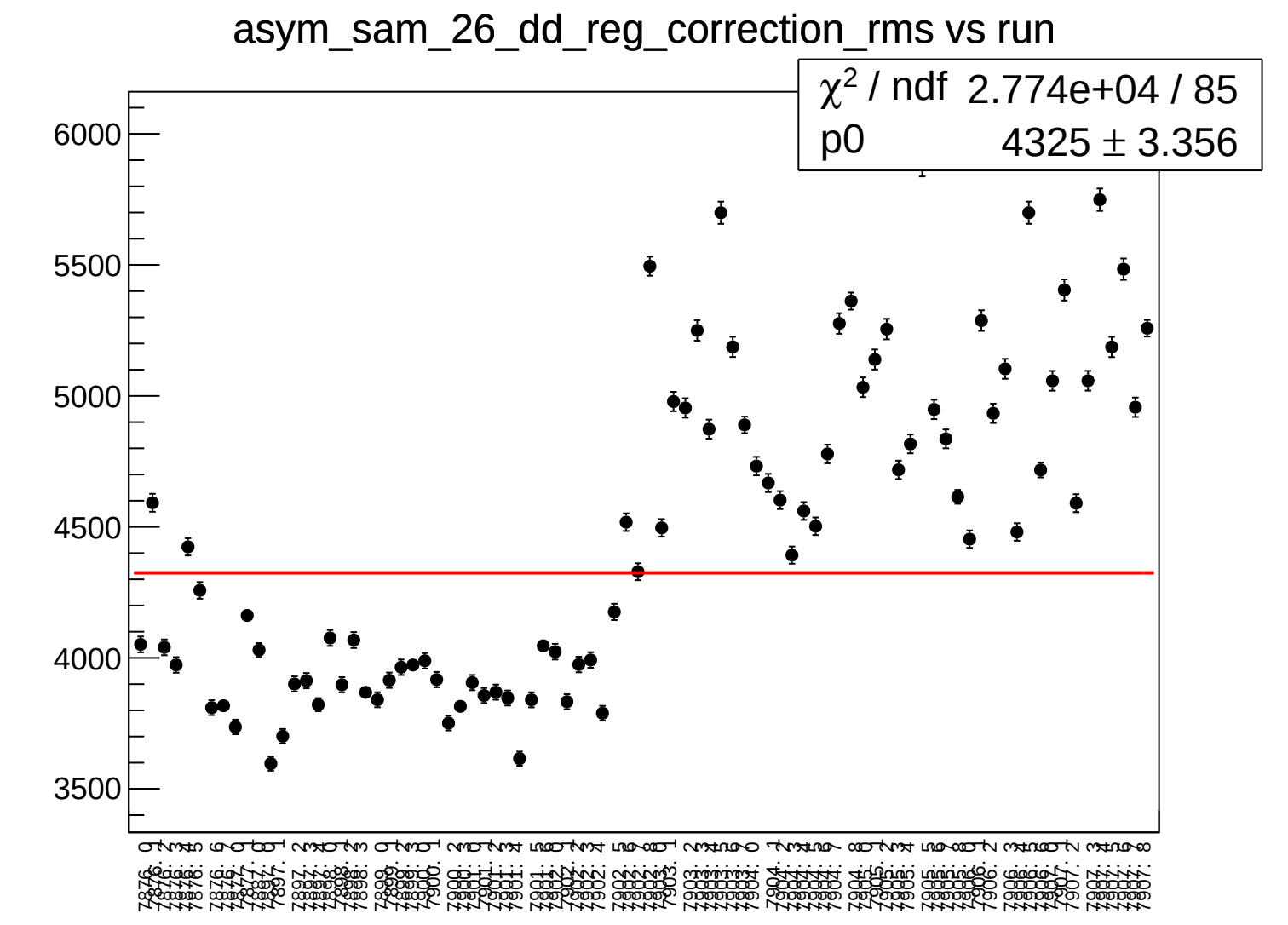

reg_asym_sam_26_dd_mean vs run
χ² / ndf 85.44 / 85
p0 −173.7 ± 187.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 1.055e+04
Std Dev 0

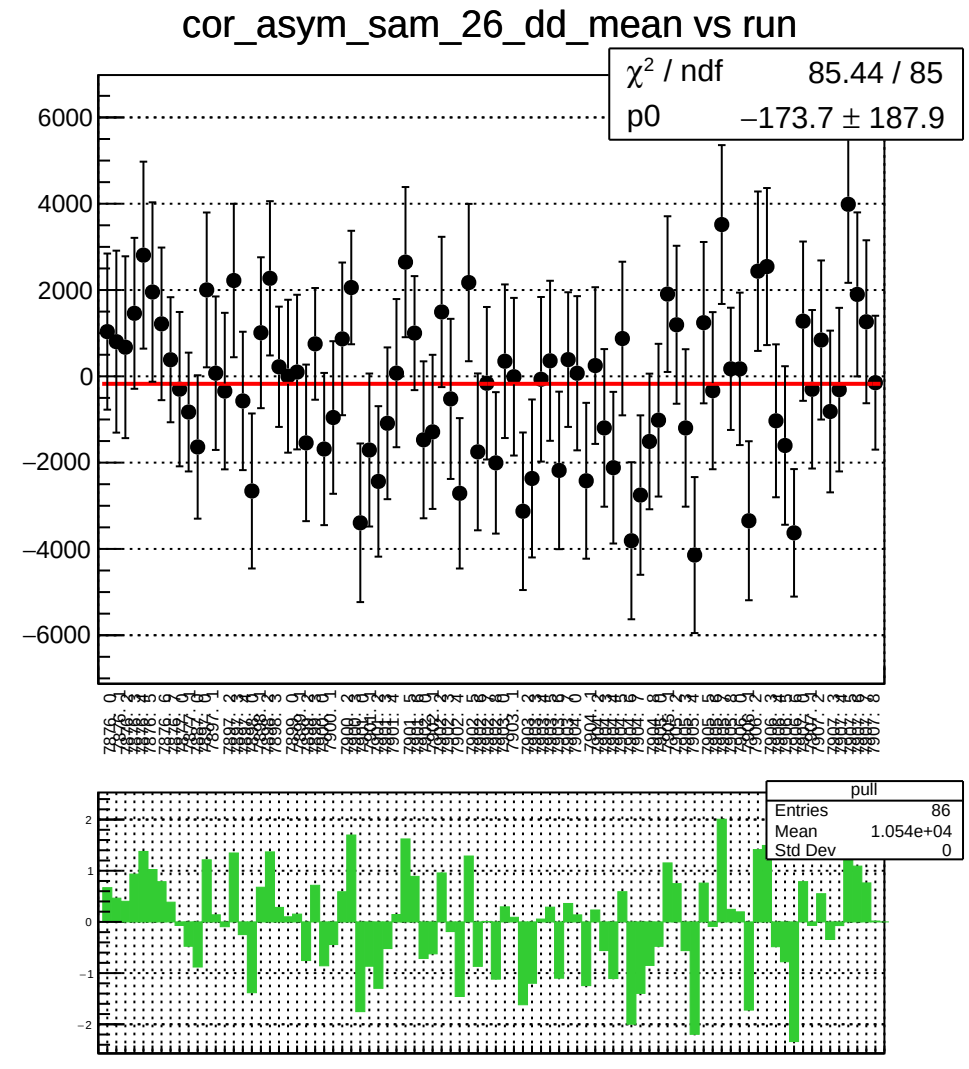

pull1D
Entries 86
Mean −0.0002179
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

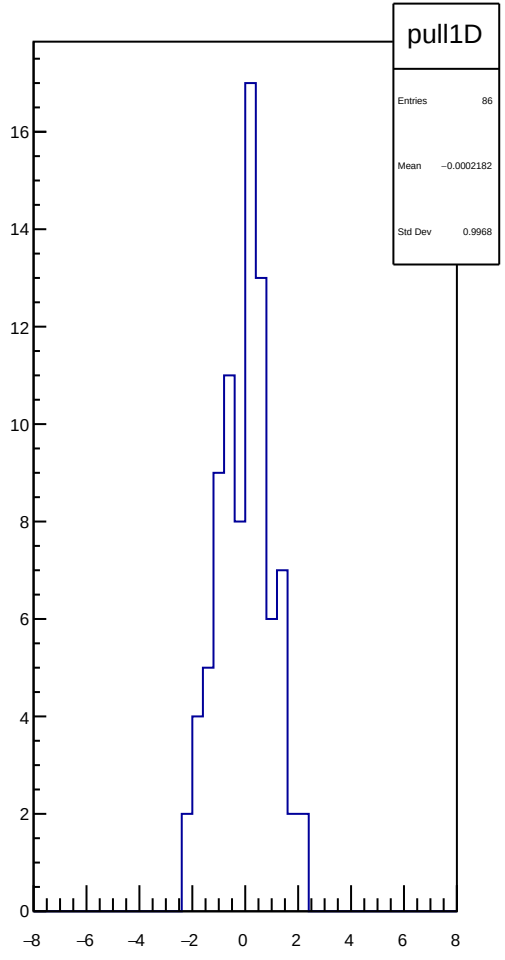

reg_asym_sam_26_dd_rms vs run
χ² / ndf 2492 / 85
p0 172.5 ± 0.1328
210
200
190
180
170
160

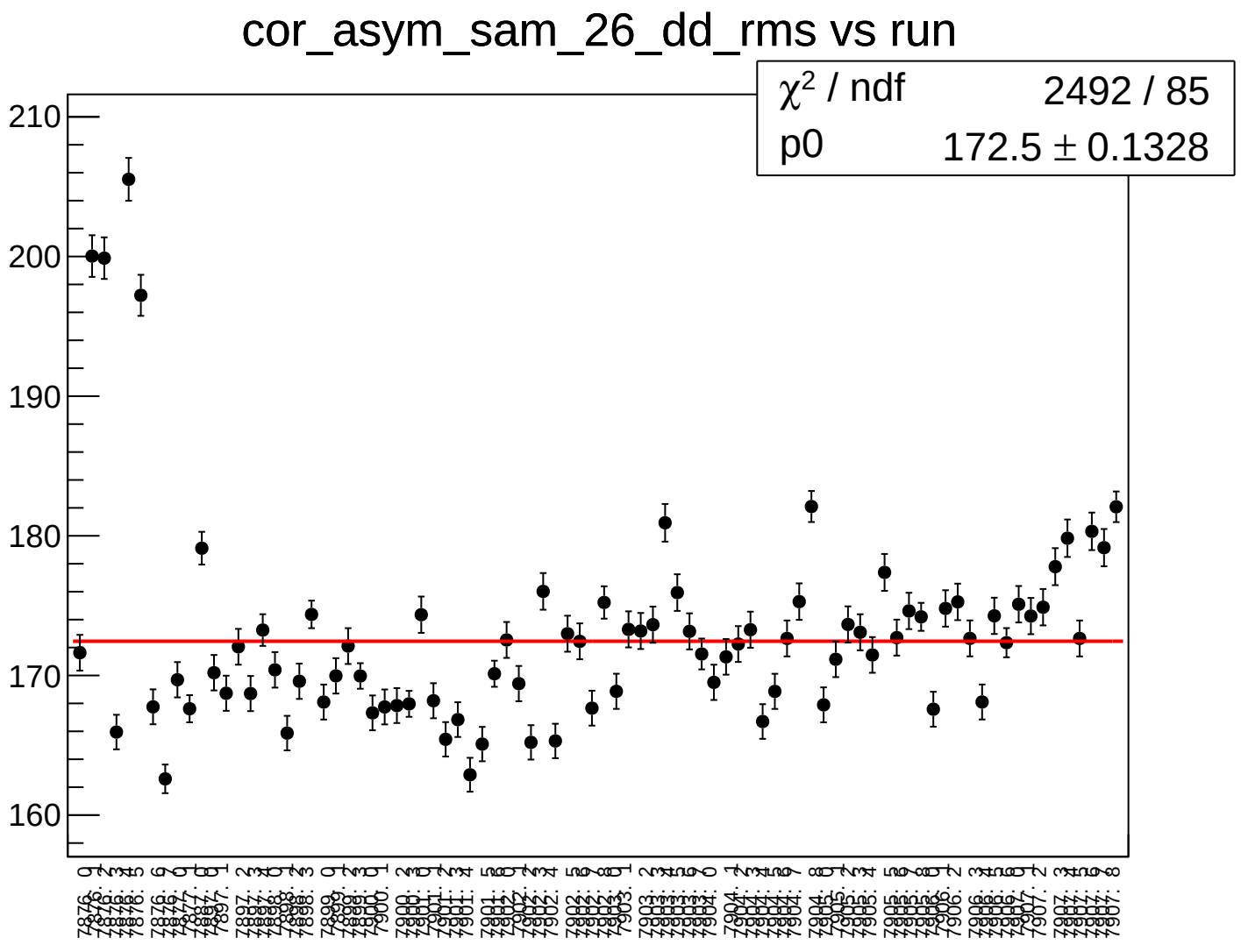

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 77.81 / 85
p0 −7515 ± 4747
pull
Entries 86
Mean −40.99
Std Dev 0

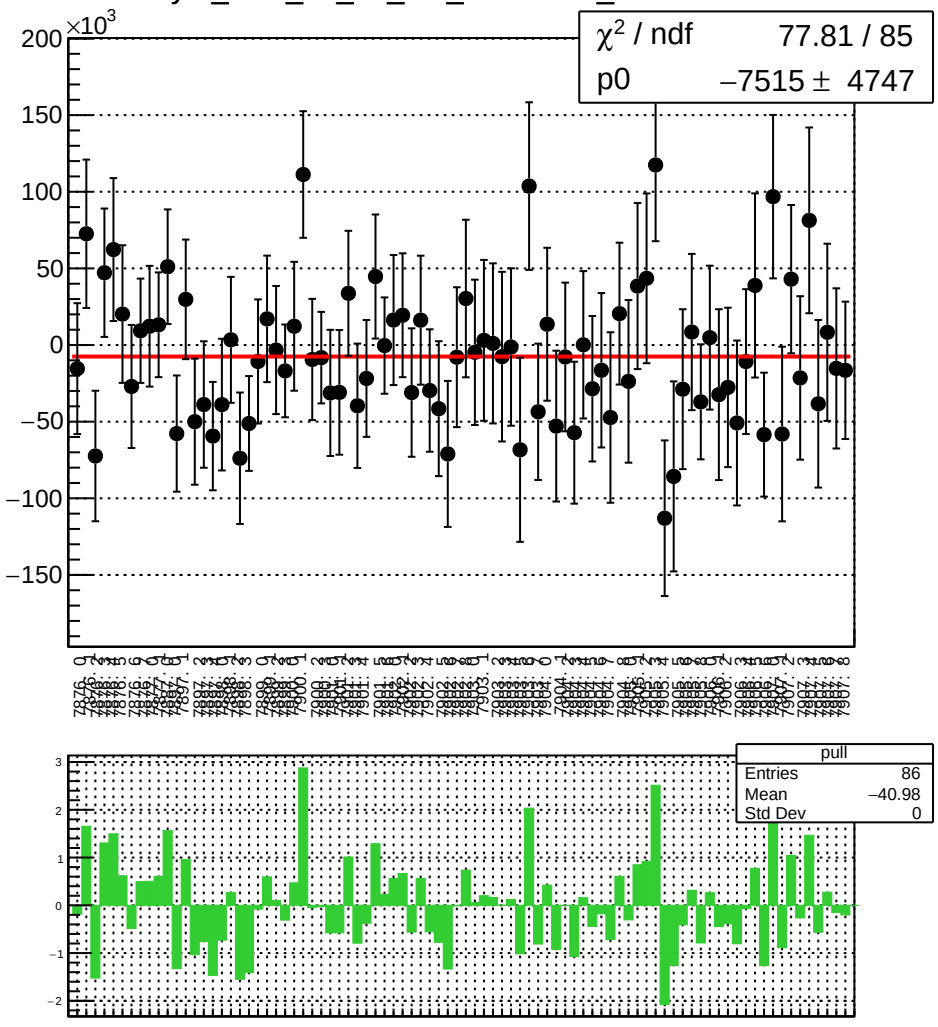

pull1D
Entries 86
Mean 0.01393
Std Dev 0.9511

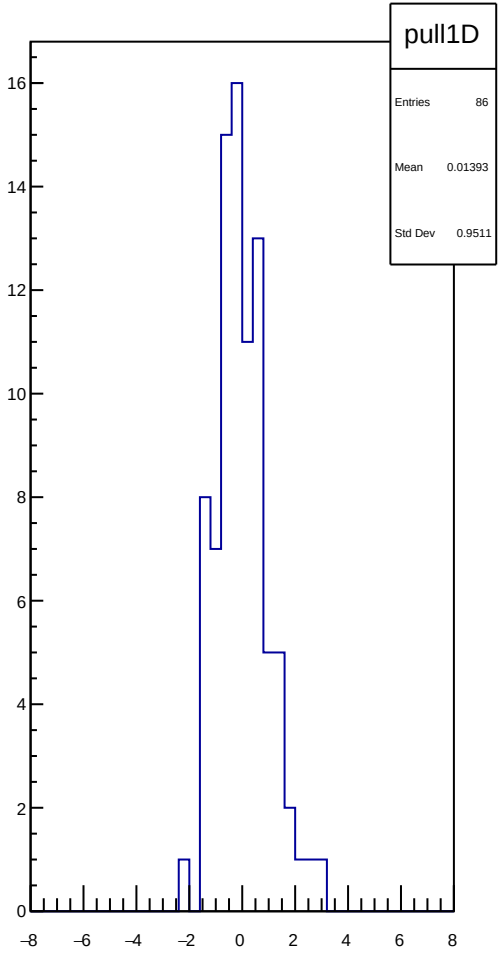

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 2.774e+04 / 85
p0 4325 ± 3.356
6000
5500
5000
4500
4000
3500

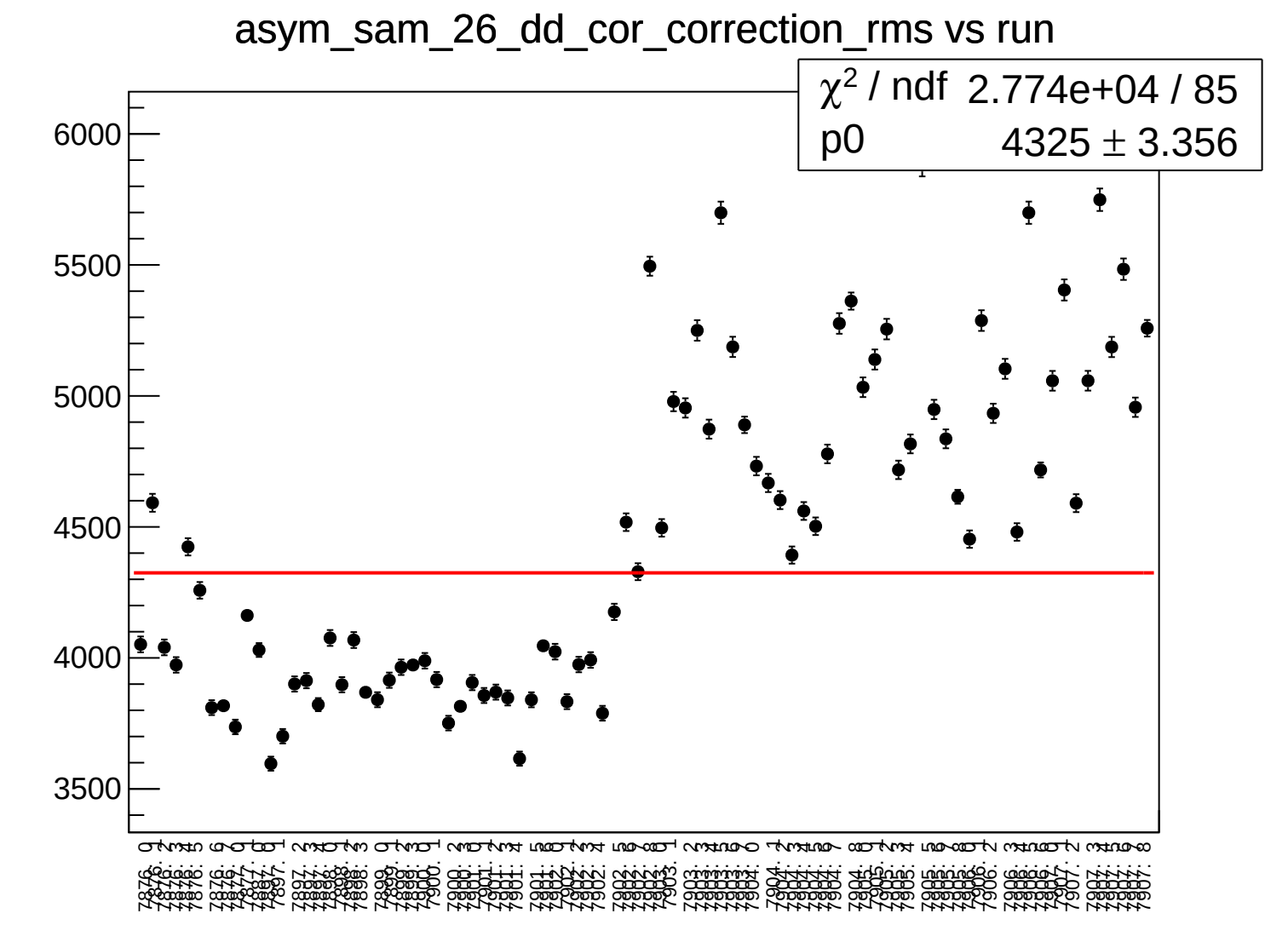

cor_asym_sam_26_dd_mean vs run
χ² / ndf 85.44 / 85
p0 −173.7 ± 187.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 1.054e+04
Std Dev 0
2
1
0
−1
−2

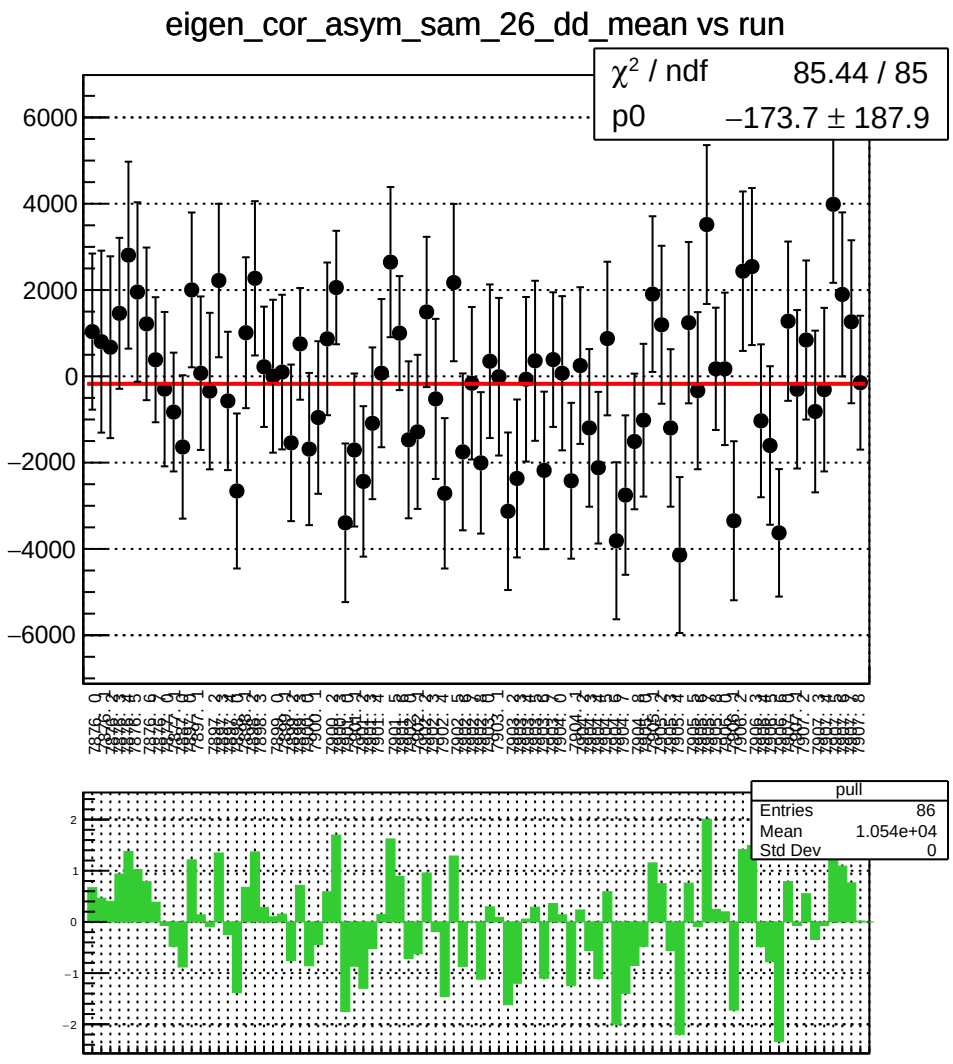

pull1D
Entries 86
Mean −0.0002182
Std Dev 0.9968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

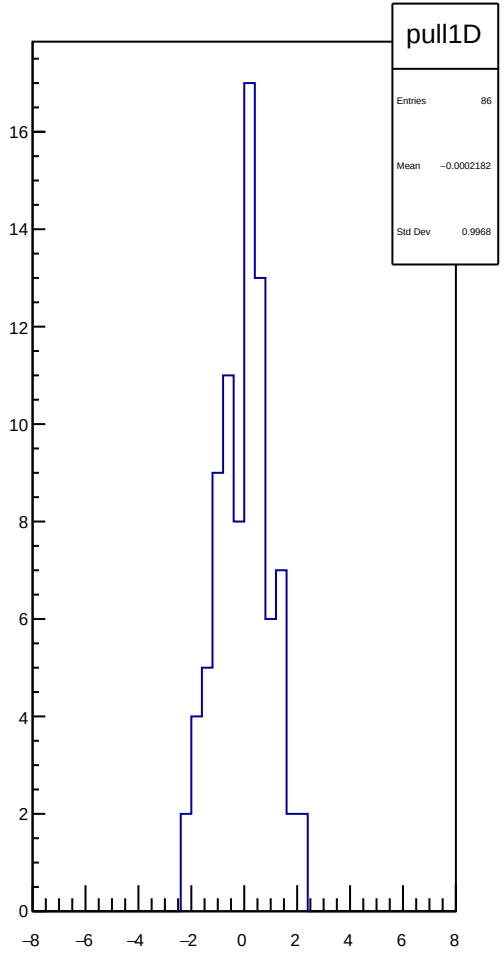

cor_asym_sam_26_dd_rms vs run
χ² / ndf 2492 / 85
p0 172.5 ± 0.1328
210
200
190
180
170
160

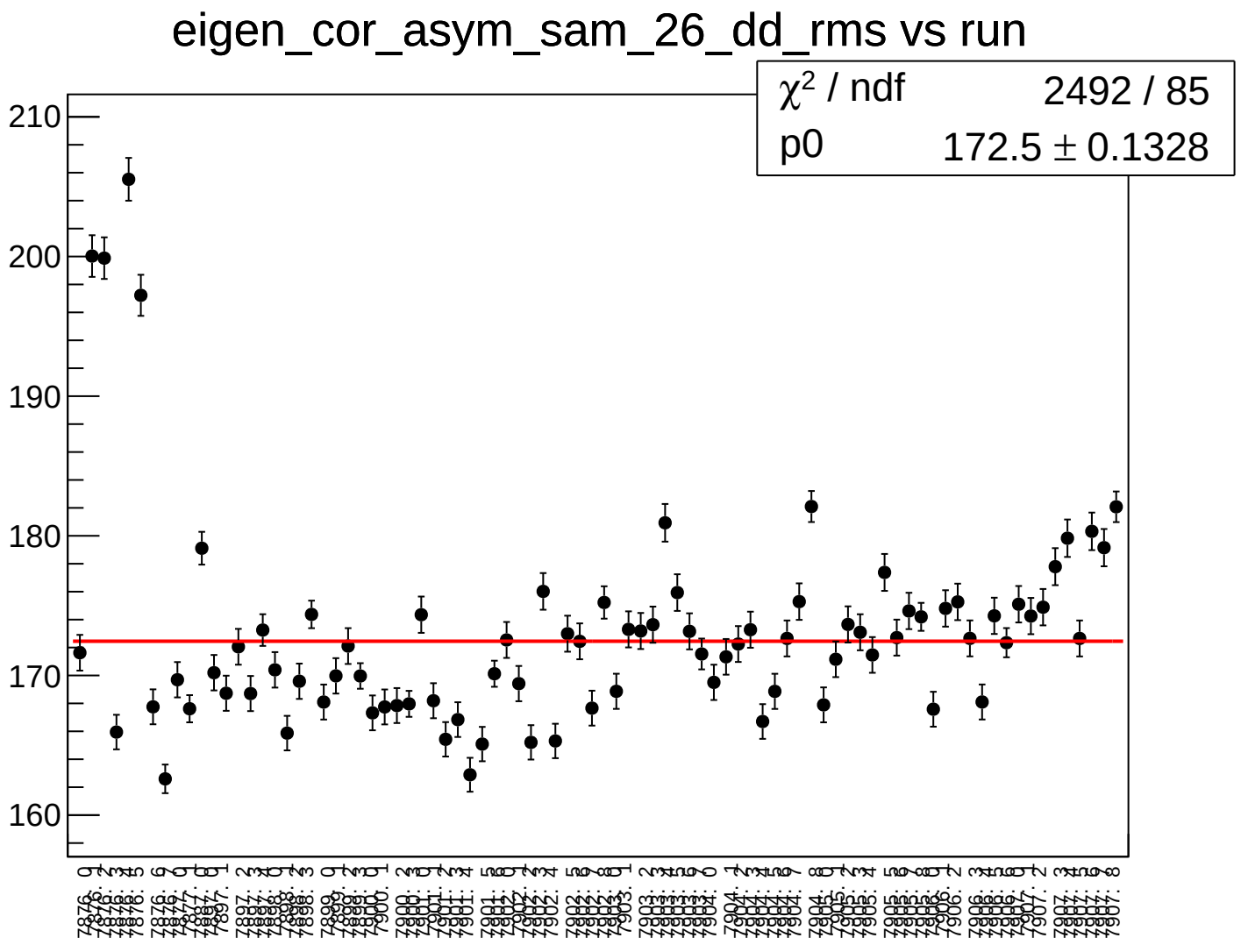

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 77.81 / 85
p0 −7515 ± 4747
×10³
pull
Entries 86
Mean −40.98
Std Dev 0

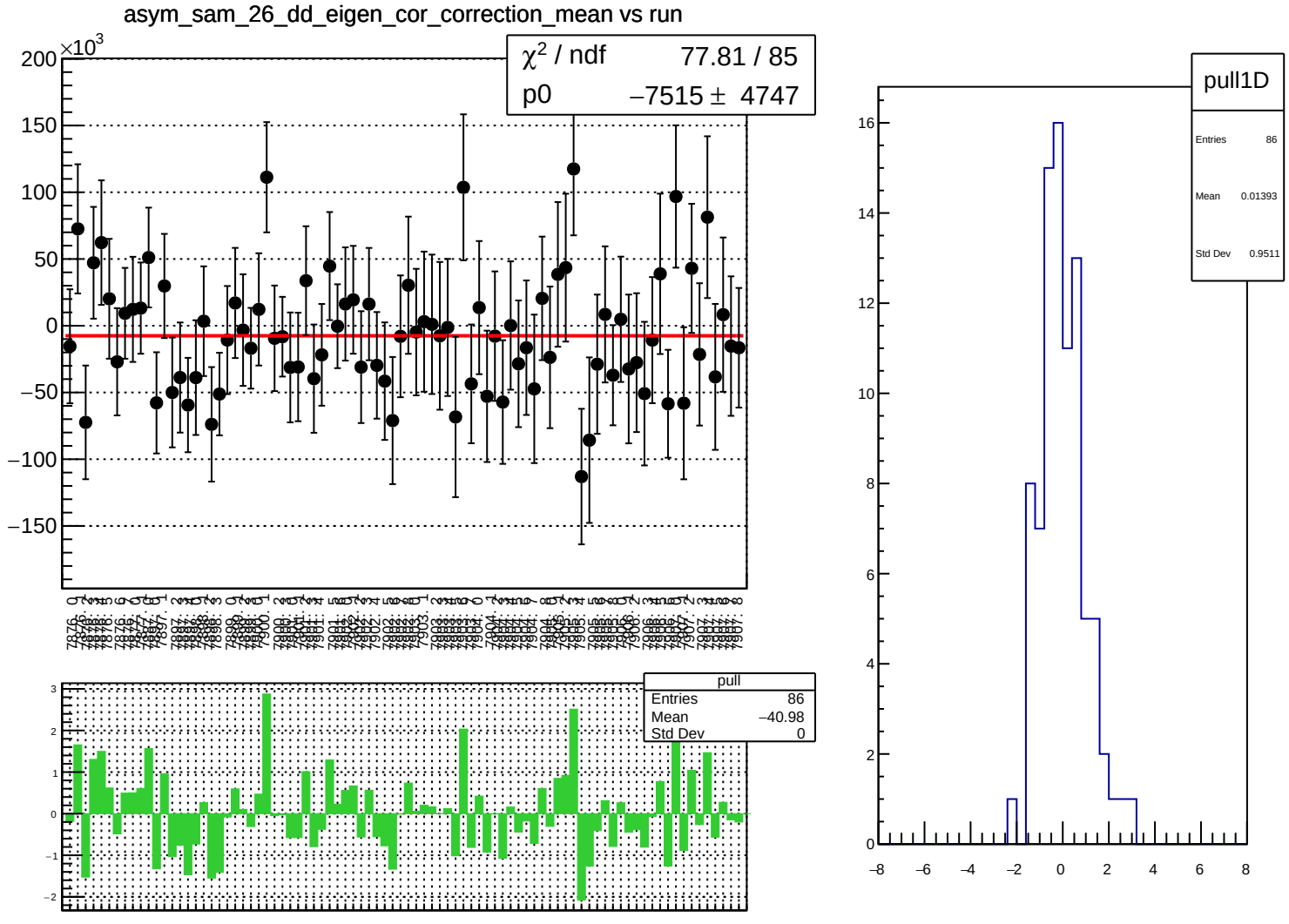

pull1D
Entries 86
Mean 0.01393
Std Dev 0.9511

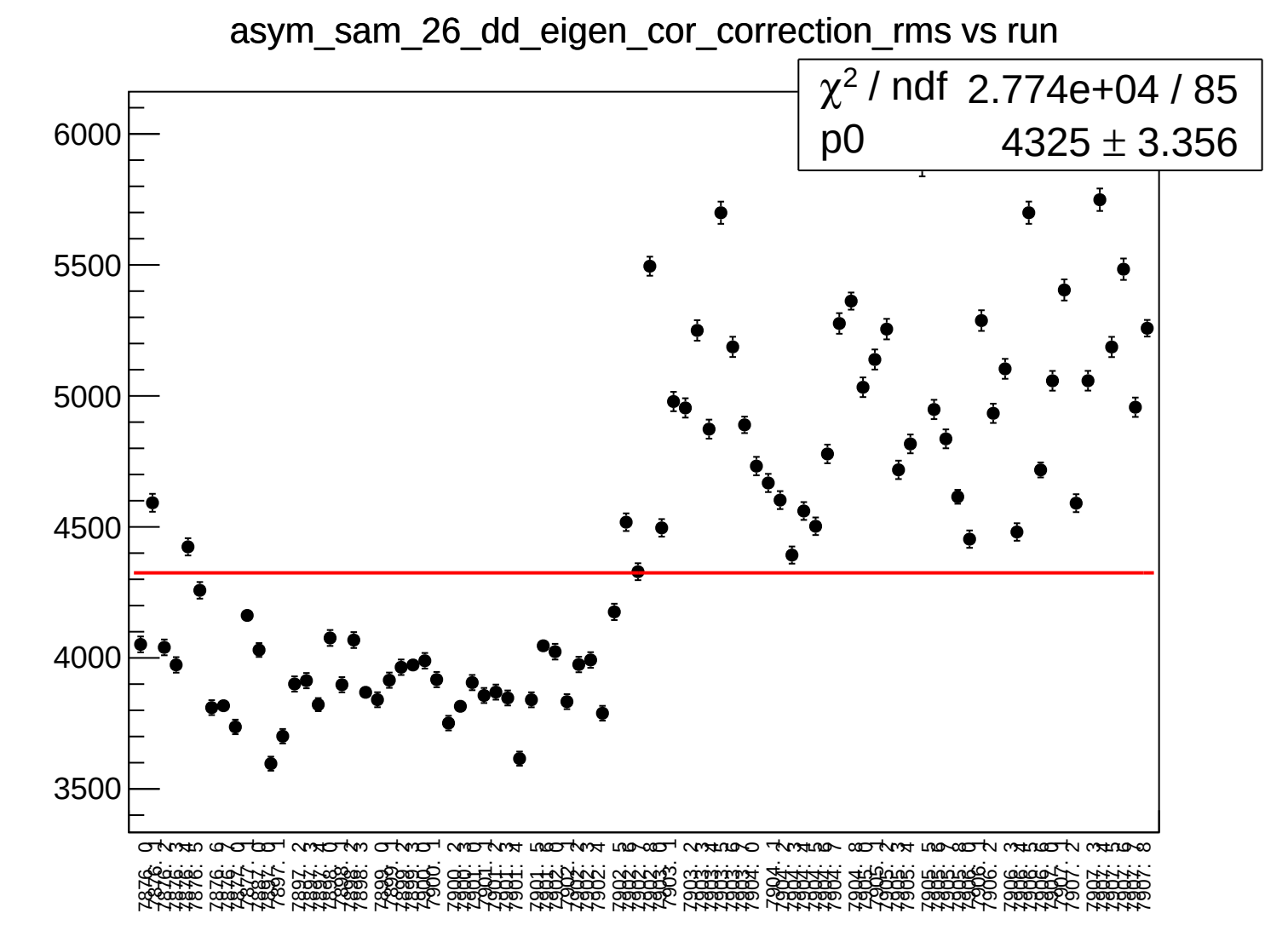

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 2.774e+04 / 85
p0 4325 ± 3.356
6000
5500
5000
4500
4000
3500

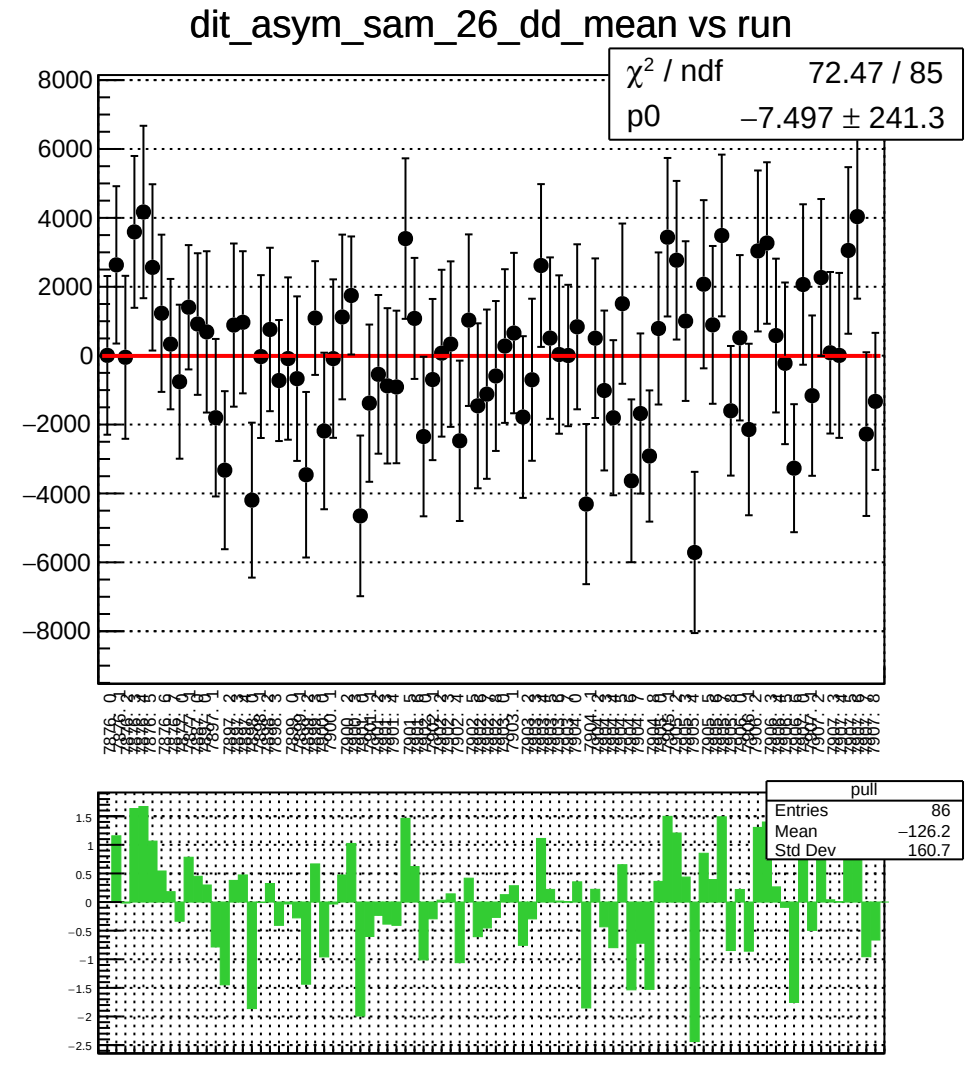

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 85.44 / 85
p0 −173.7 ± 187.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 1.054e+04
Std Dev 0
2
1
0
−1
−2

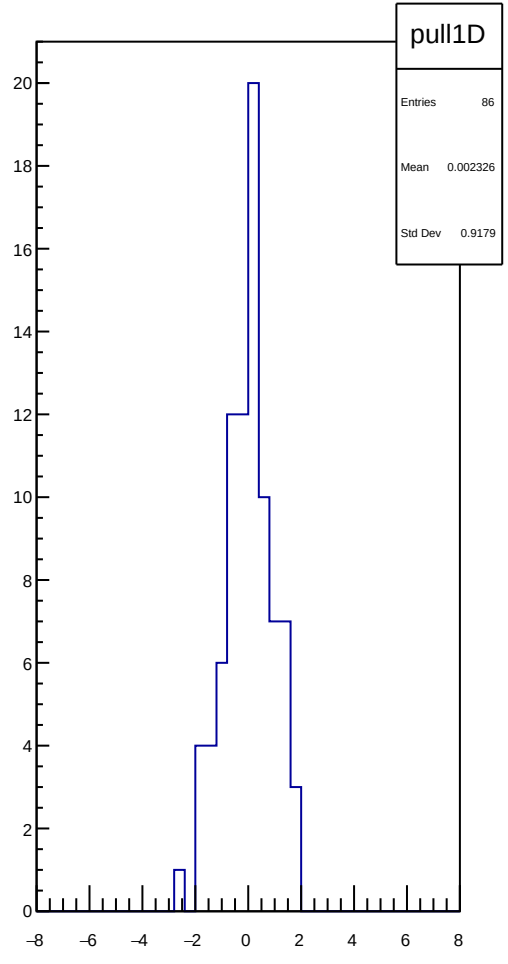

pull1D
Entries 86
Mean −0.0002182
Std Dev 0.9968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

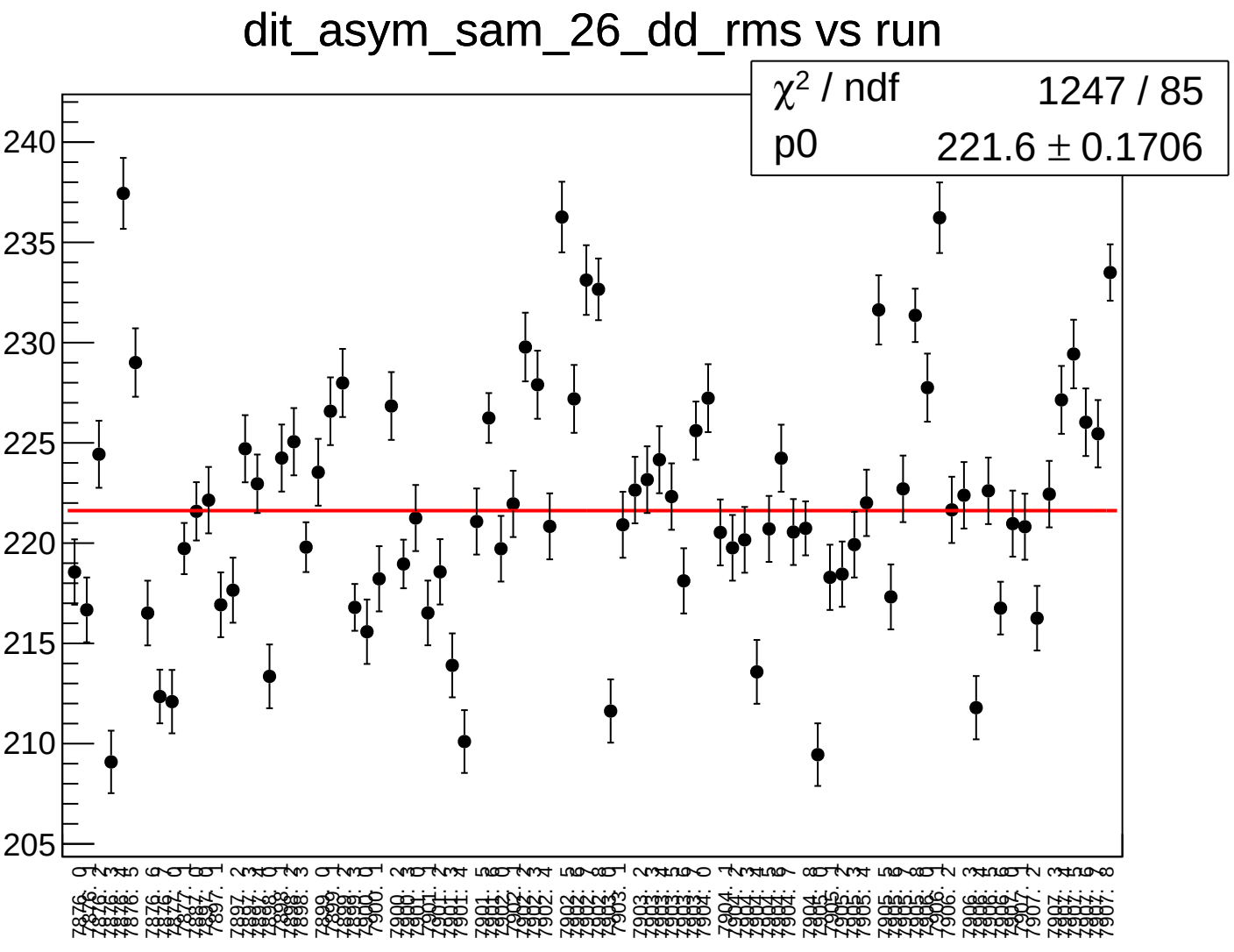

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 2492 / 85
p0 172.5 ± 0.1328
210
200
190
180
170
160

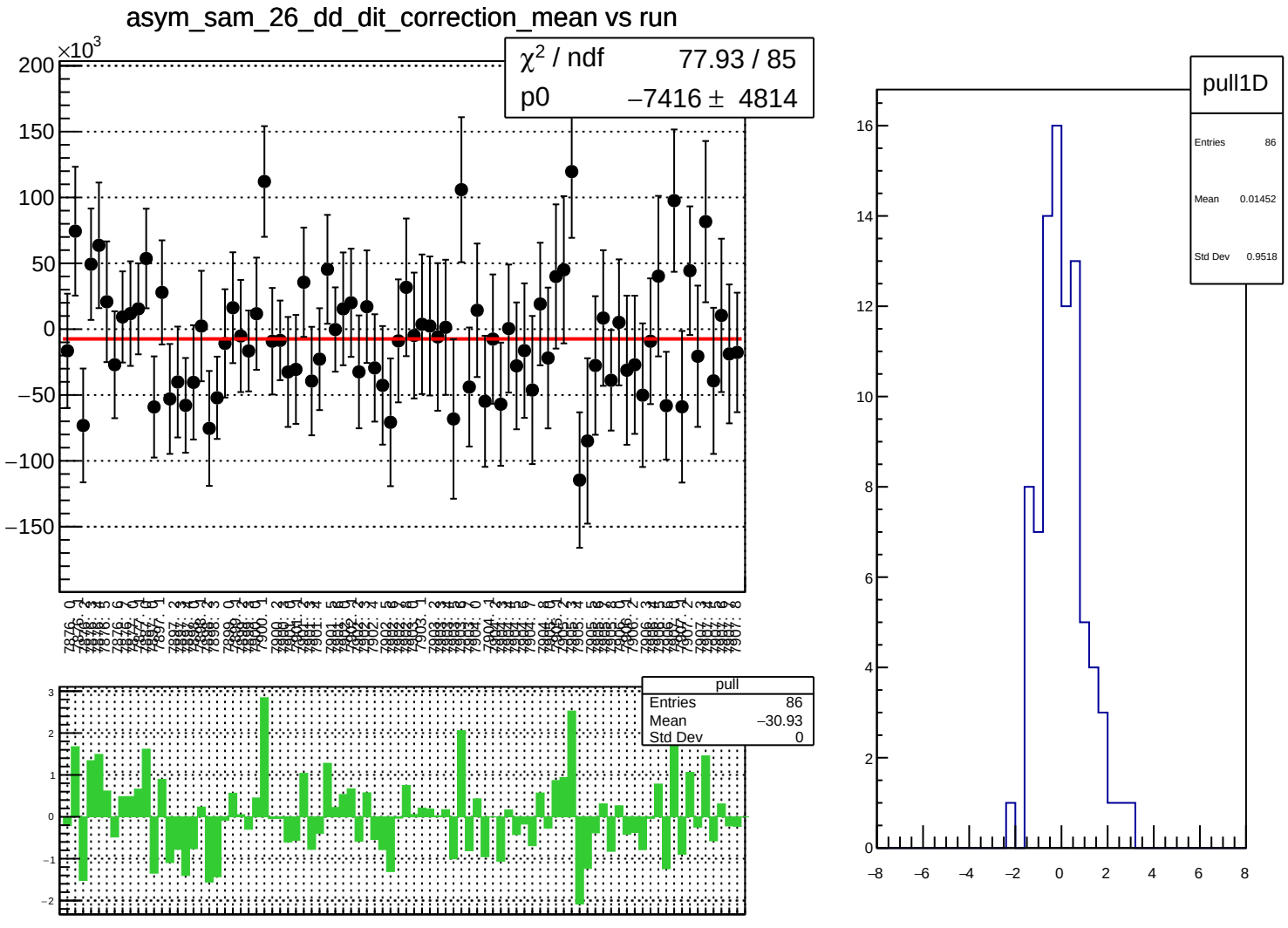

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.81 / 85
p0 −7515 ± 4747
×10³
200
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −40.98
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01393
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

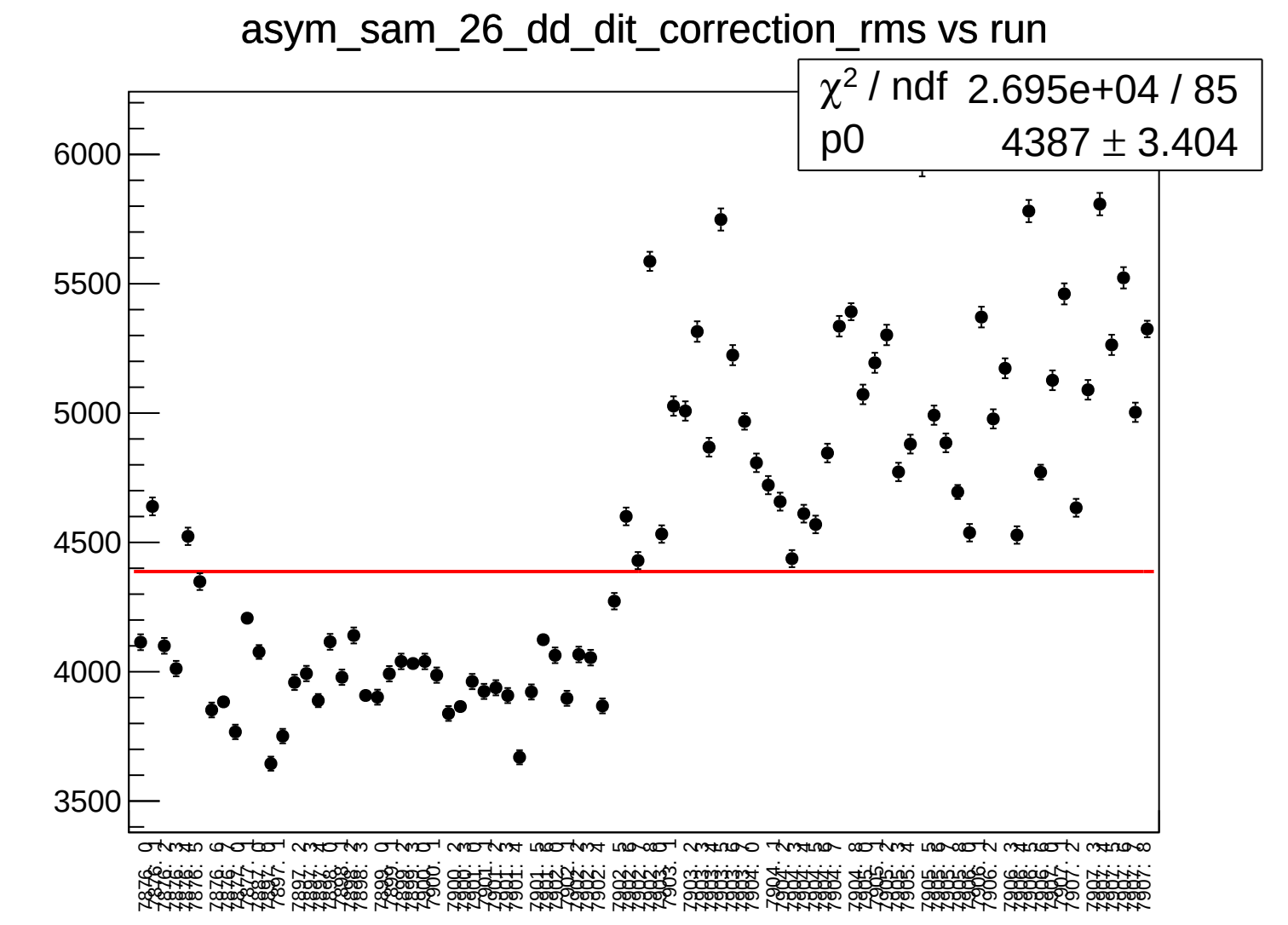

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.774e+04 / 85
p0 4325 ± 3.356
6000
5500
5000
4500
4000
3500

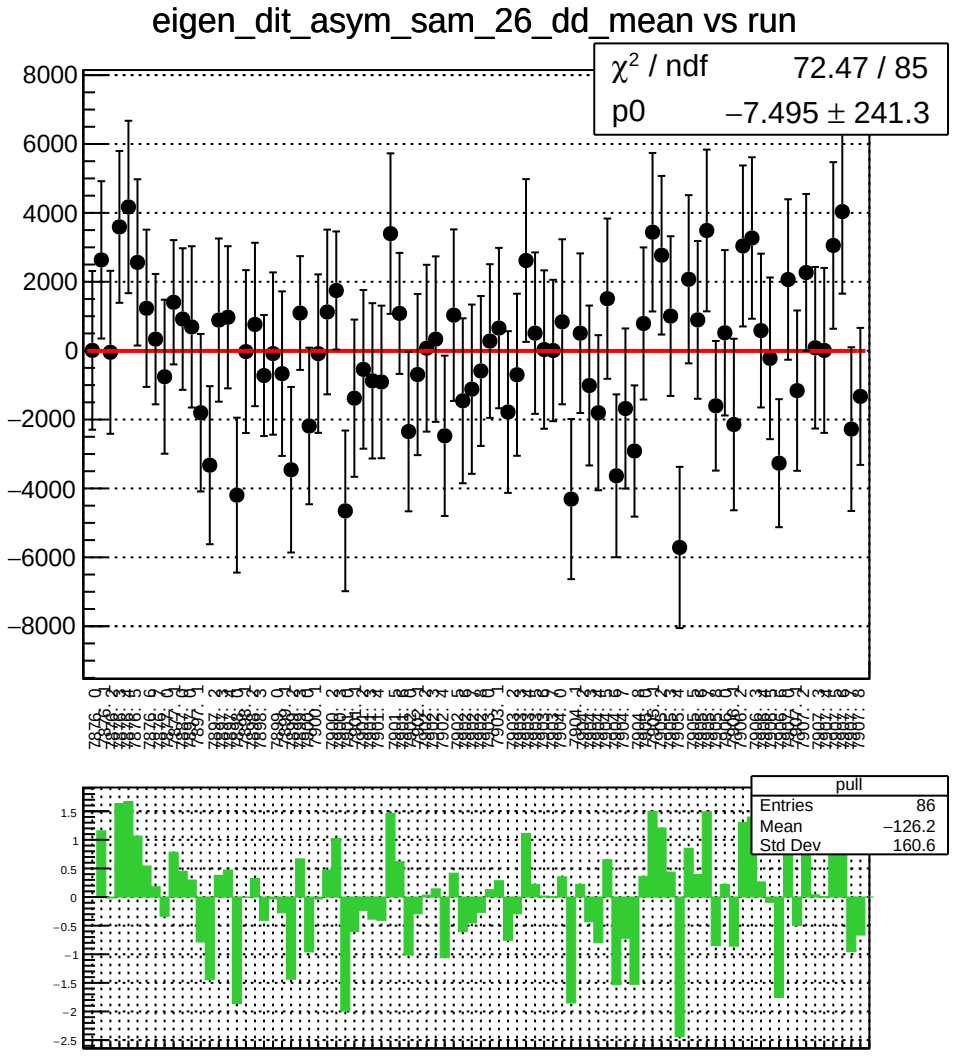

dit_asym_sam_26_dd_mean vs run
χ² / ndf 72.47 / 85
p0 −7.497 ± 241.3
pull
Entries 86
Mean −126.2
Std Dev 160.7

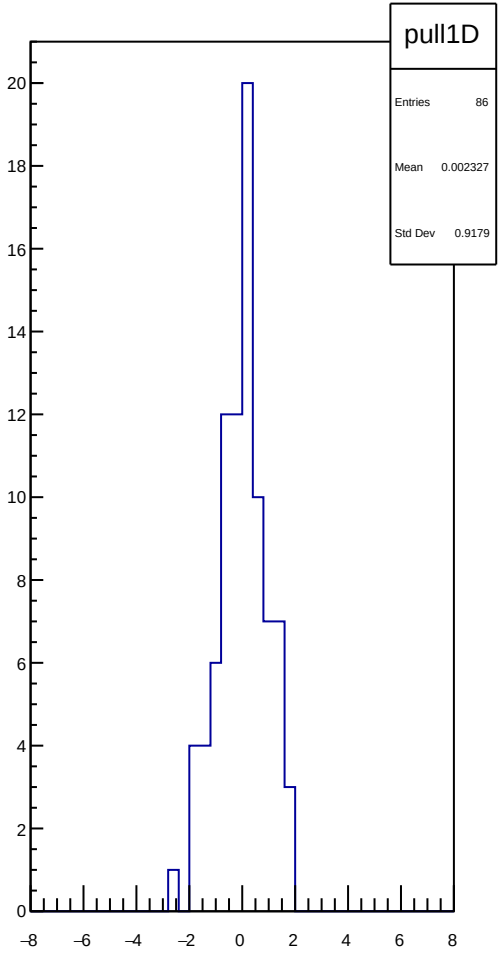

pull1D
Entries 86
Mean 0.002326
Std Dev 0.9179

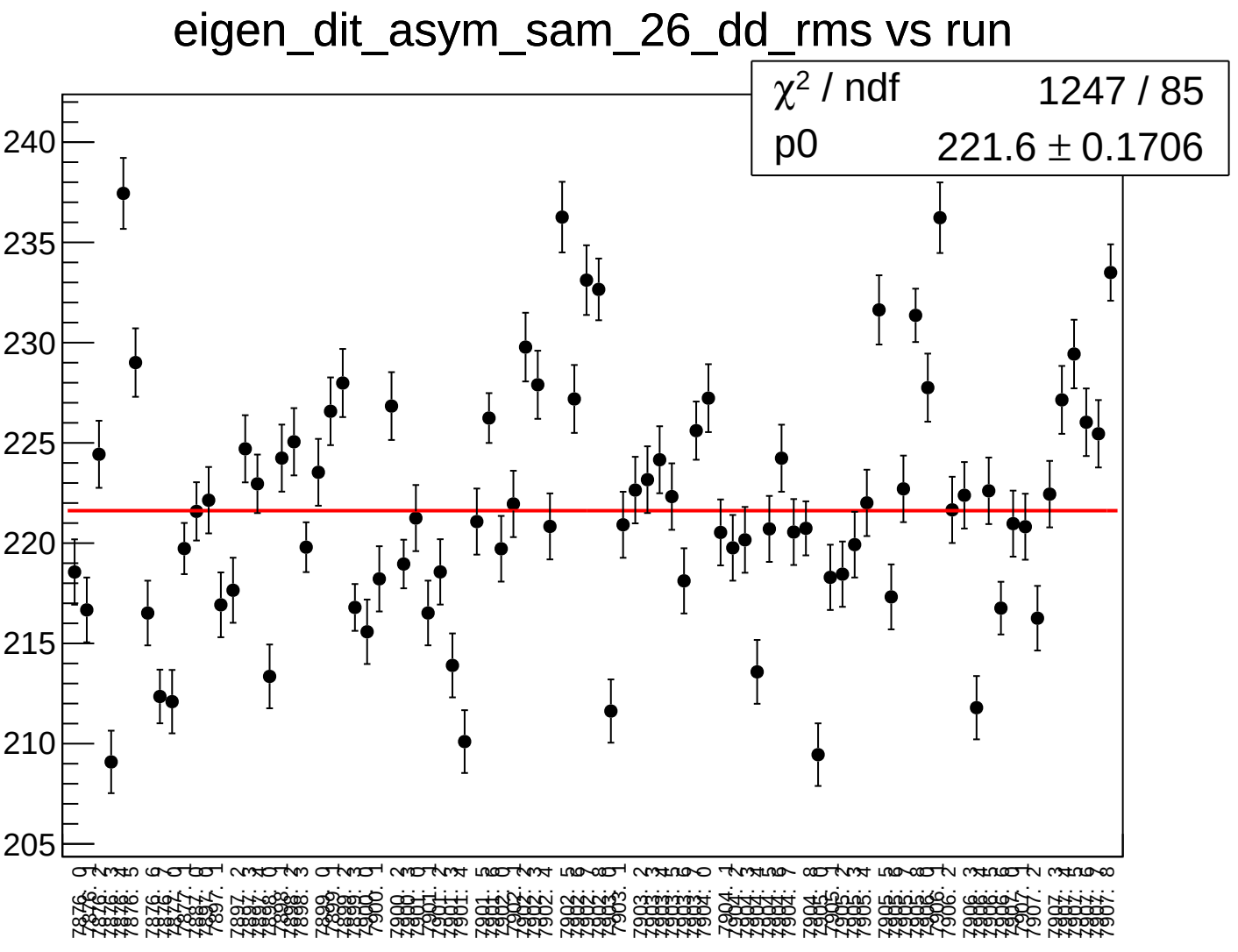

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1247 / 85
p0 221.6 ± 0.1706
240
235
230
225
220
215
210
205

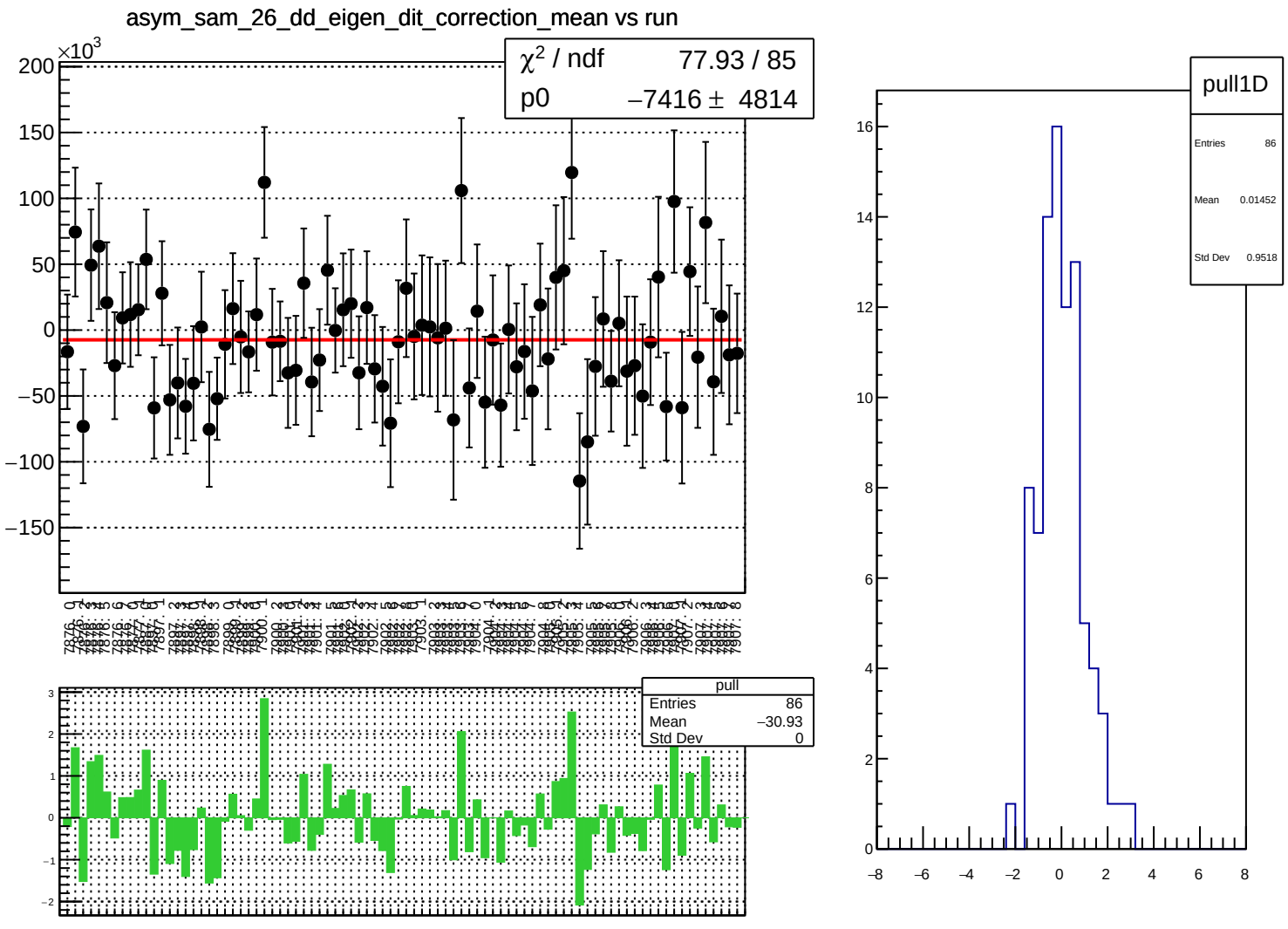

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.93 / 85
p0 −7416 ± 4814
pull
Entries 86
Mean −30.93
Std Dev 0
pull1D
Entries 86
Mean 0.01452
Std Dev 0.9518

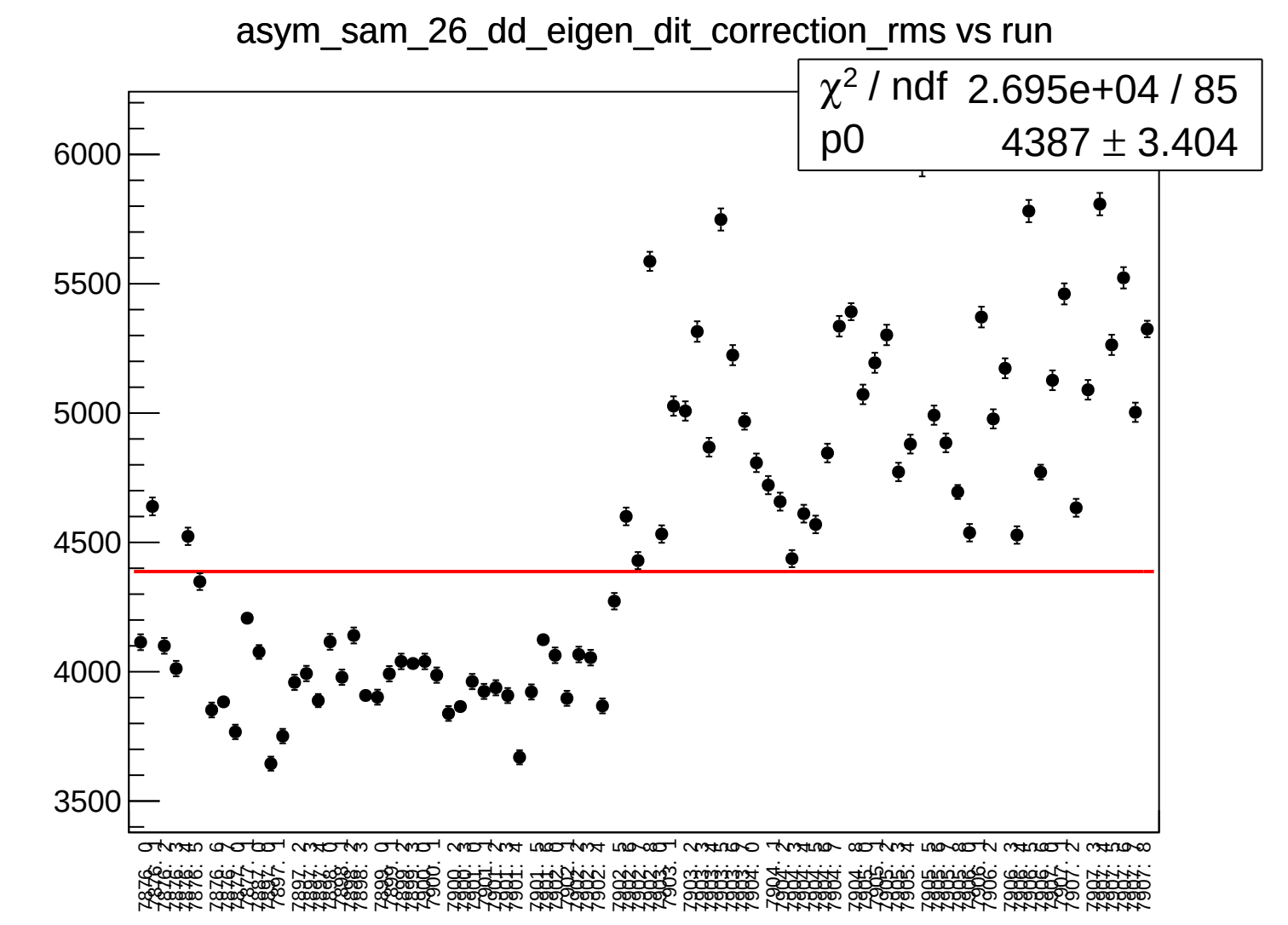

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2.695e+04 / 85
p0 4387 ± 3.404
6000
5500
5000
4500
4000
3500

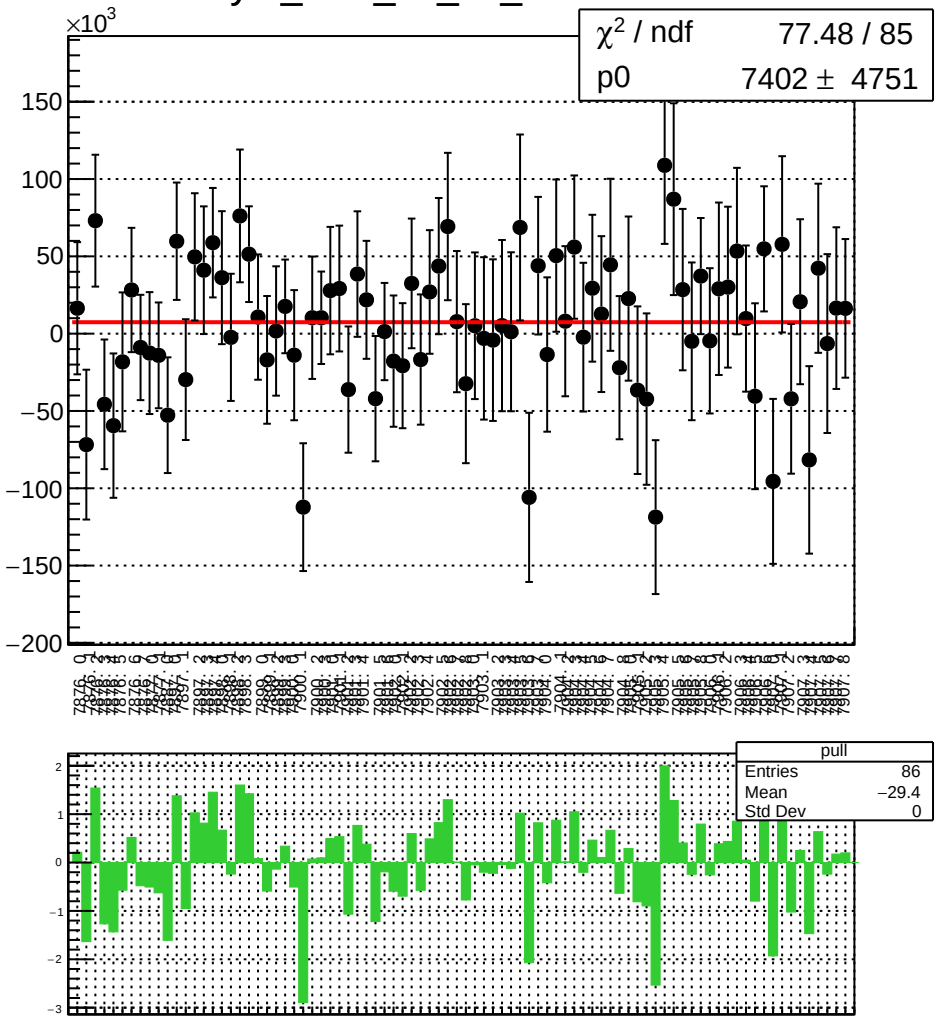

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 72.47 / 85
p0 −7.495 ± 241.3
pull
Entries 86
Mean −126.2
Std Dev 160.6

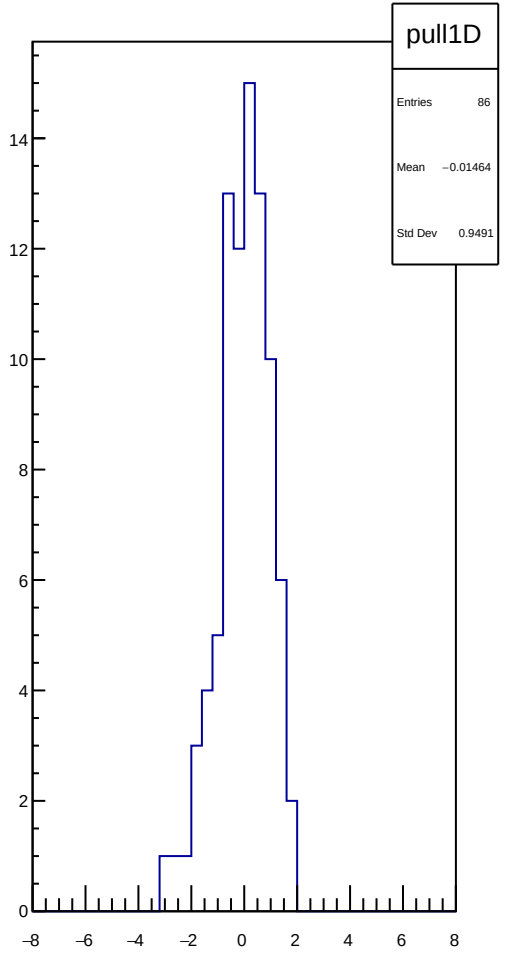

pull1D
Entries 86
Mean 0.002327
Std Dev 0.9179

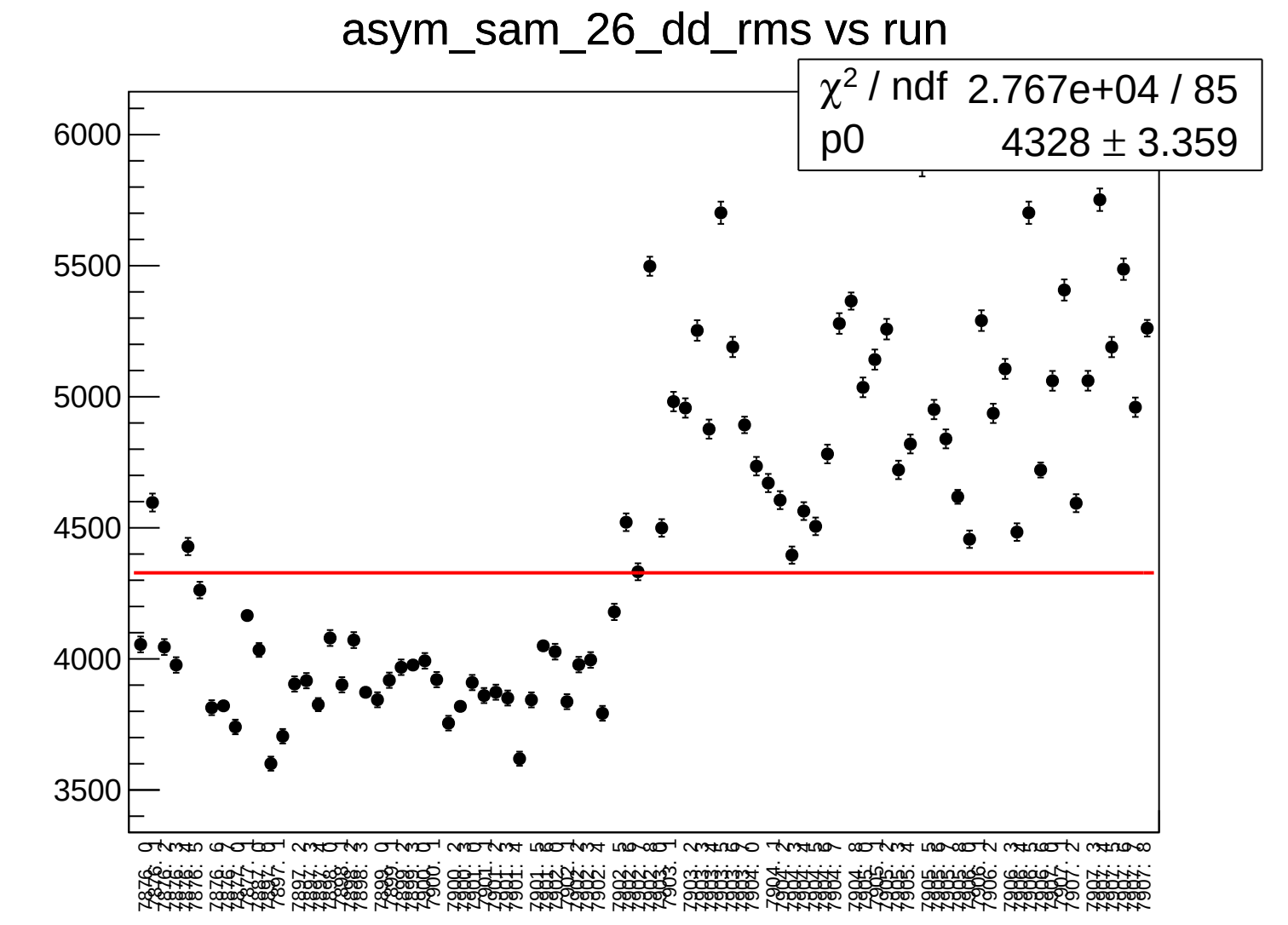

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1247 / 85
p0 221.6 ± 0.1706
240
235
230
225
220
215
210
205

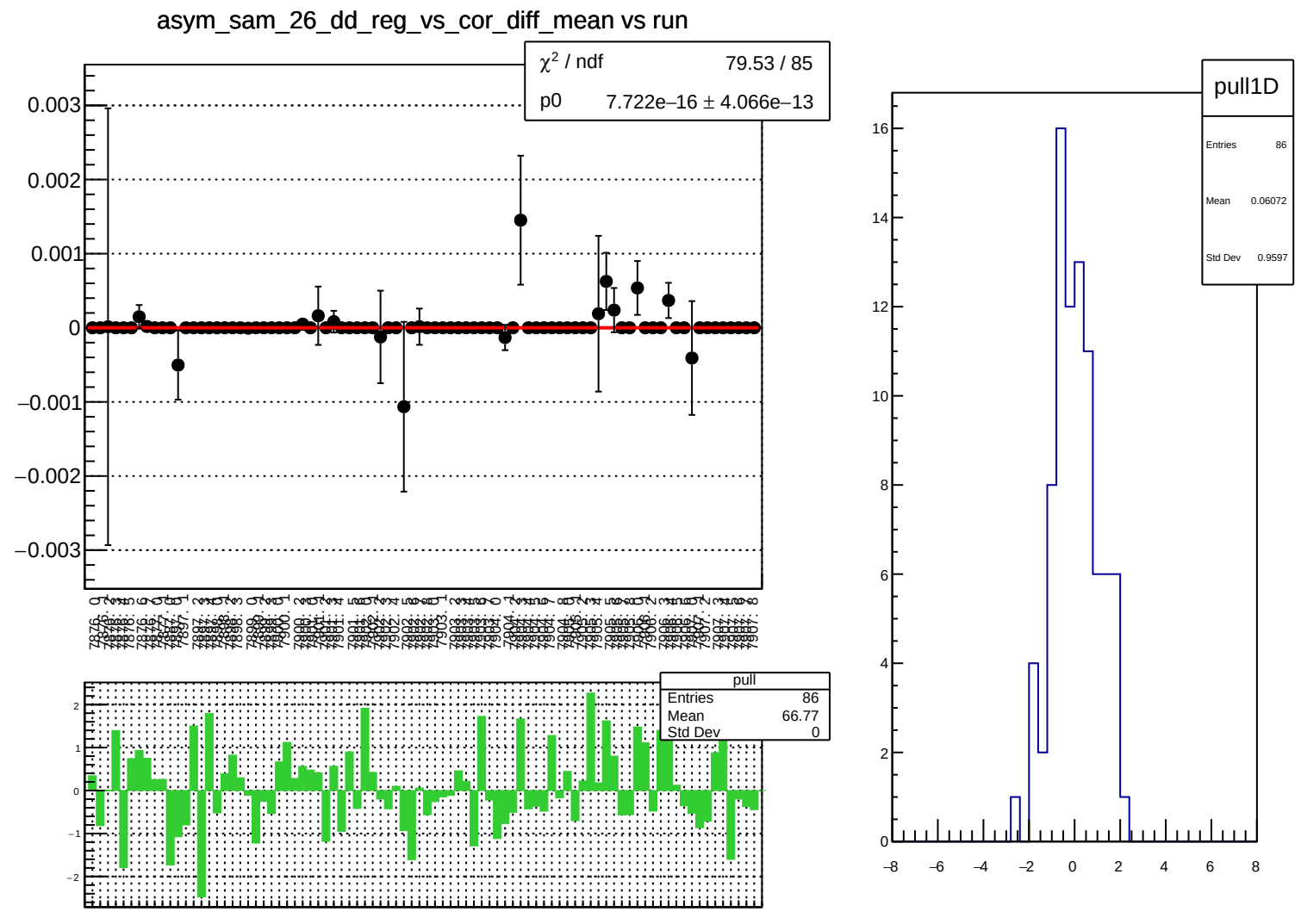

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.93 / 85
p0 −7416 ± 4814
pull
Entries 86
Mean −30.93
Std Dev 0
pull1D
Entries 86
Mean 0.01452
Std Dev 0.9518

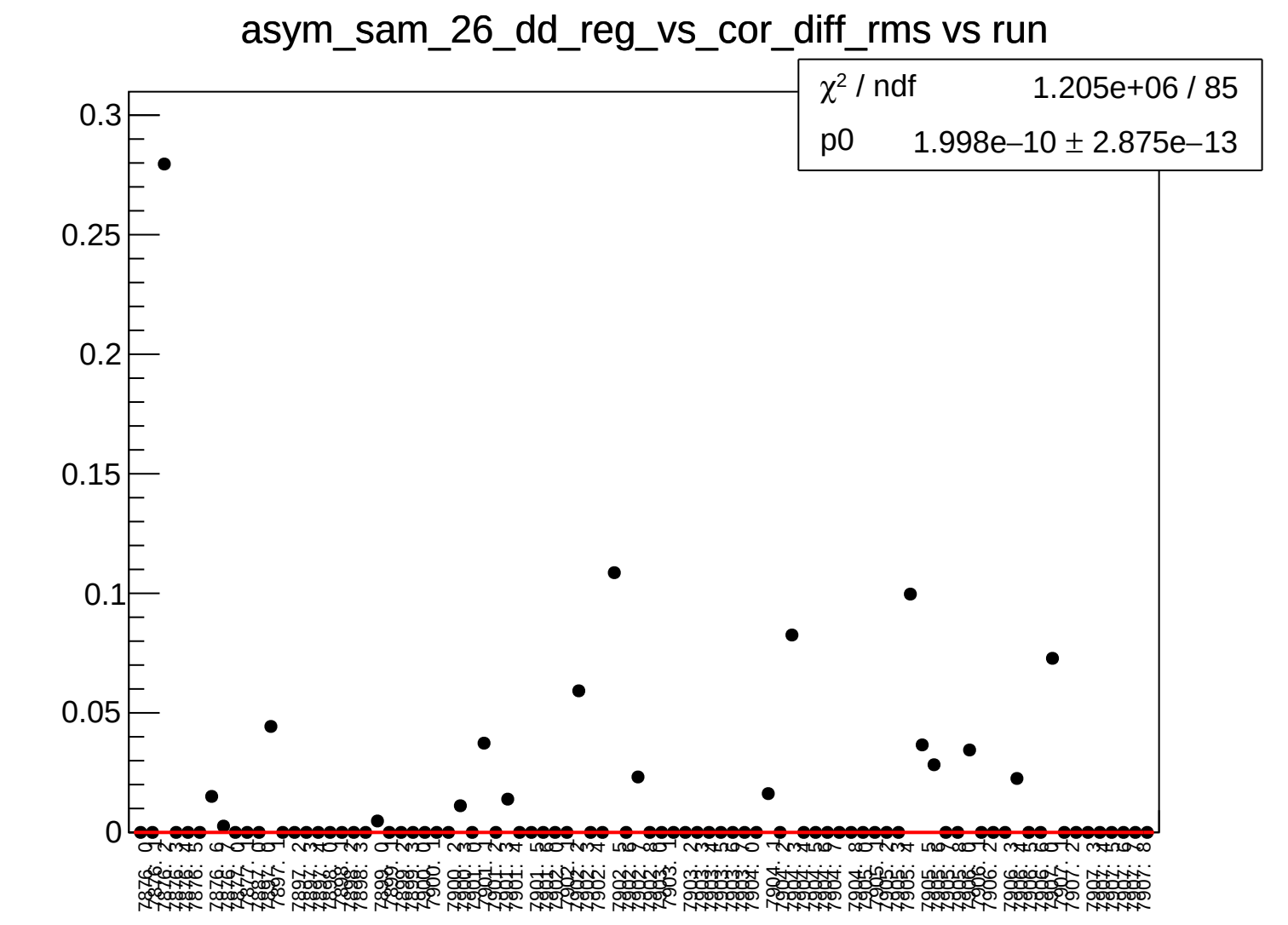

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.695e+04 / 85
p0 4387 ± 3.404
6000
5500
5000
4500
4000
3500

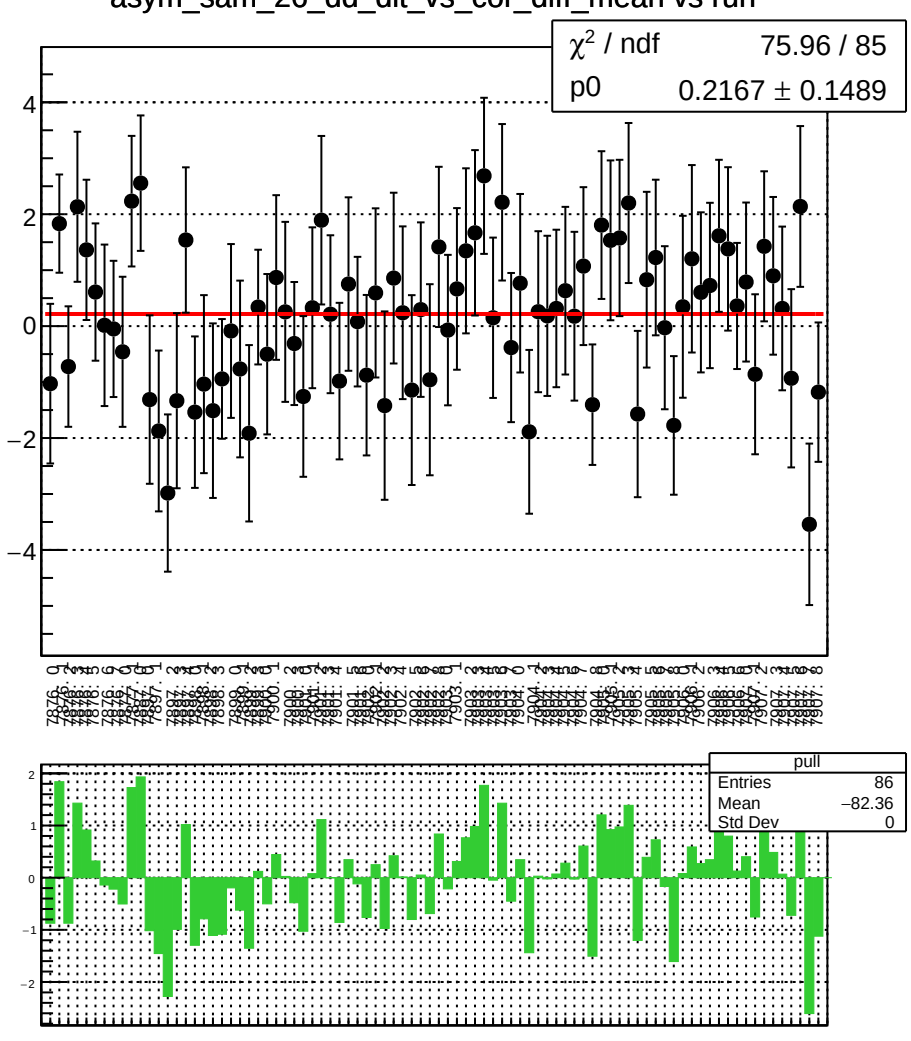

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 77.48 / 85
p0 7402 ± 4751
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −29.4
Std Dev 0
2
1
0
−1
−2
−3

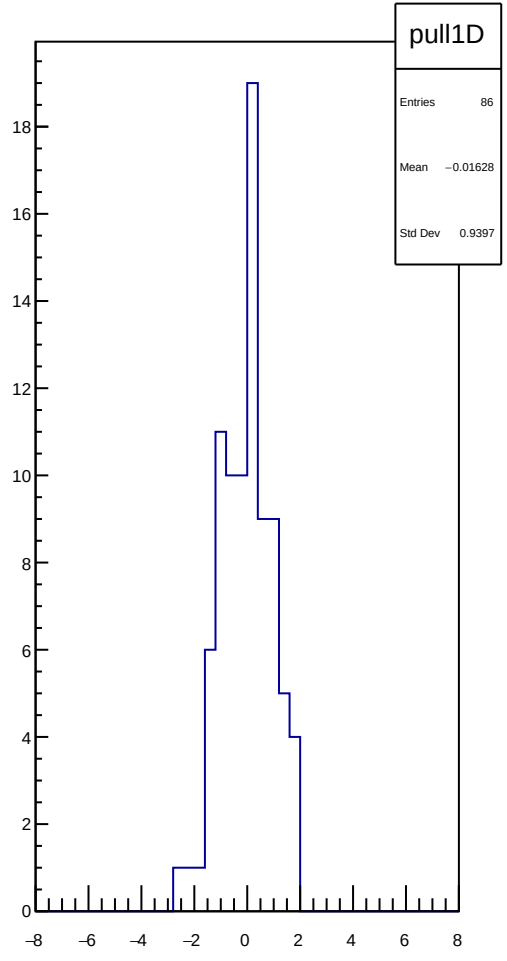

pull1D
Entries 86
Mean −0.01464
Std Dev 0.9491
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

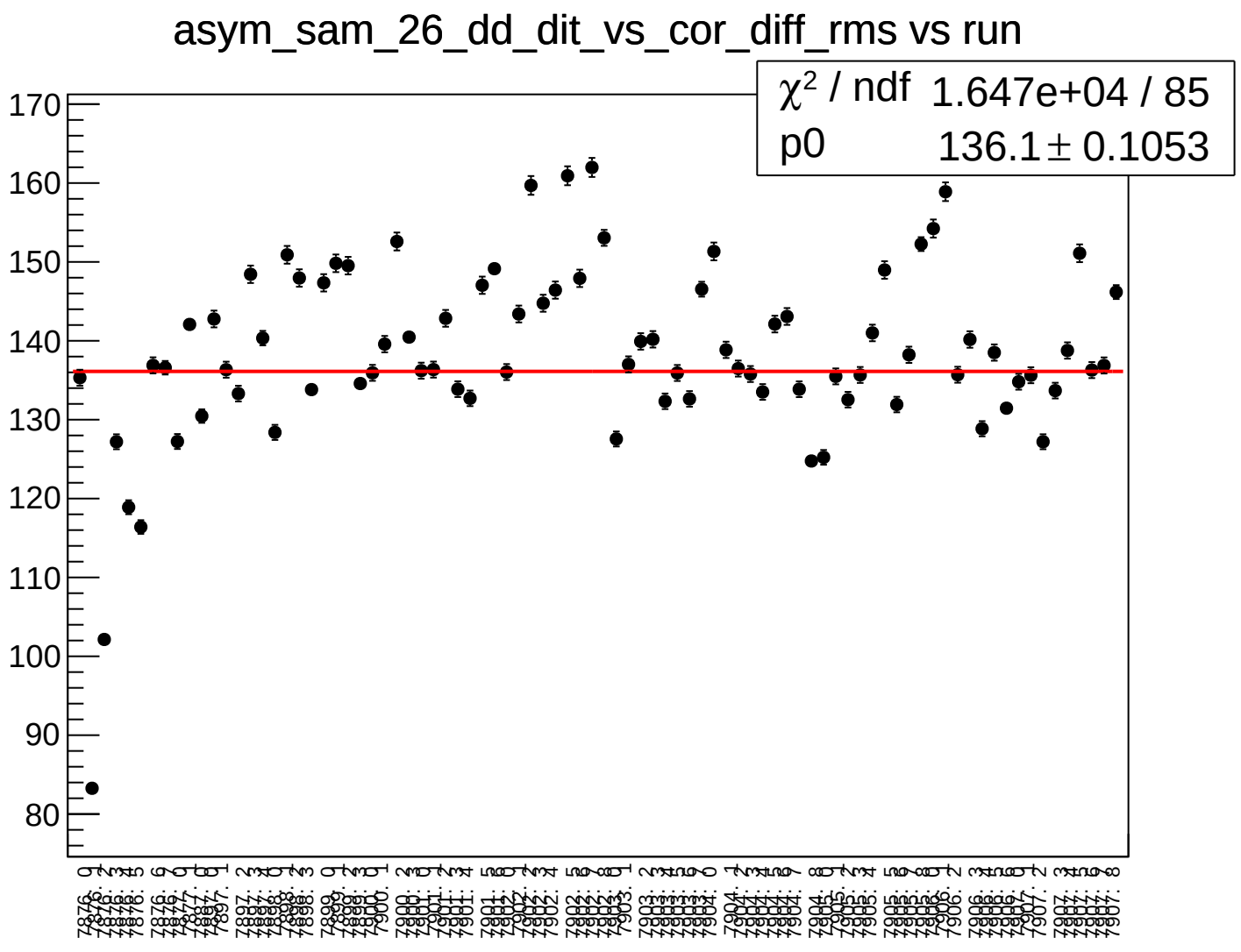

asym_sam_26_dd_rms vs run
χ² / ndf 2.767e+04 / 85
p0 4328 ± 3.359
6000
5500
5000
4500
4000
3500

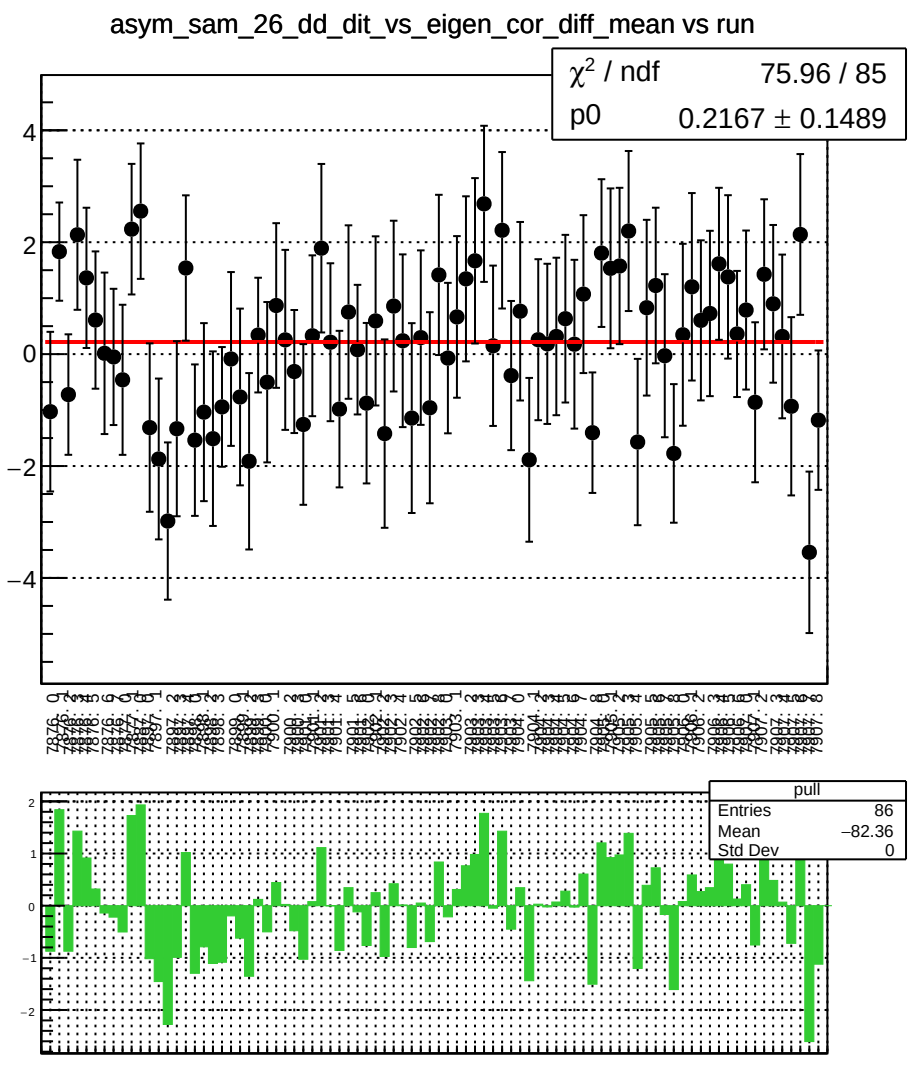

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.53 / 85
p0 7.722e−16 ± 4.066e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 86
Mean 66.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.06072
Std Dev 0.9597
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

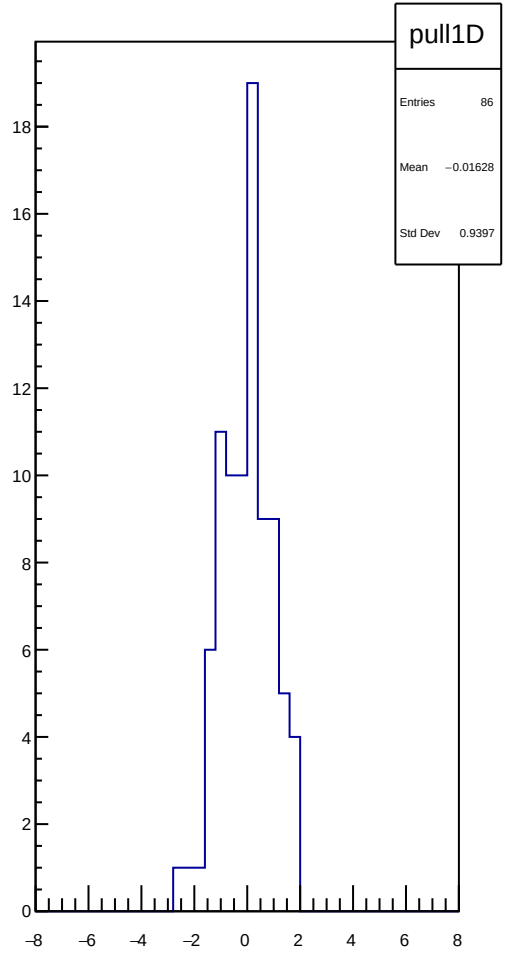

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.205e+06 / 85
p0 1.998e−10 ± 2.875e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

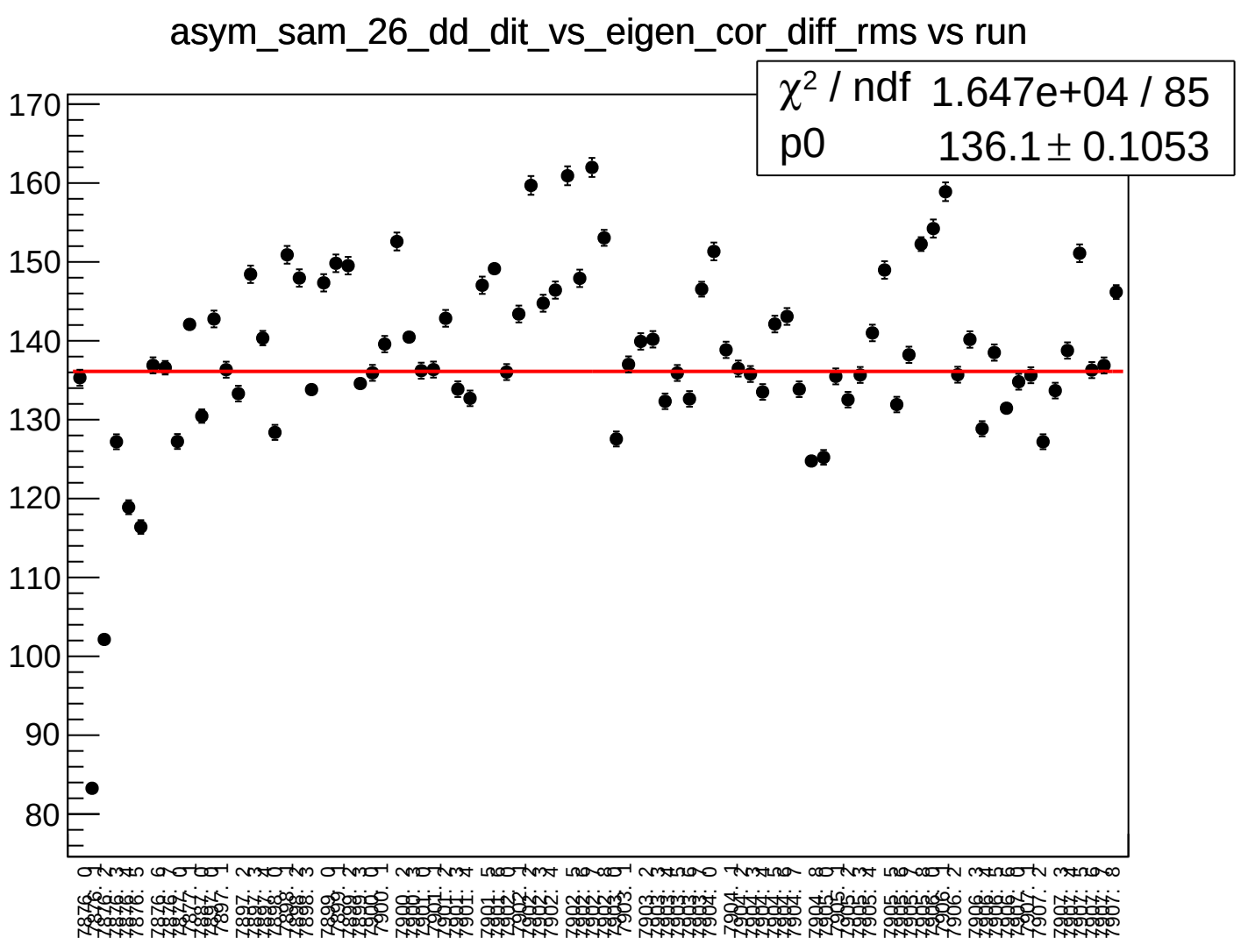

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.96 / 85
p0 0.2167 ± 0.1489
pull
Entries 86
Mean −82.36
Std Dev 0

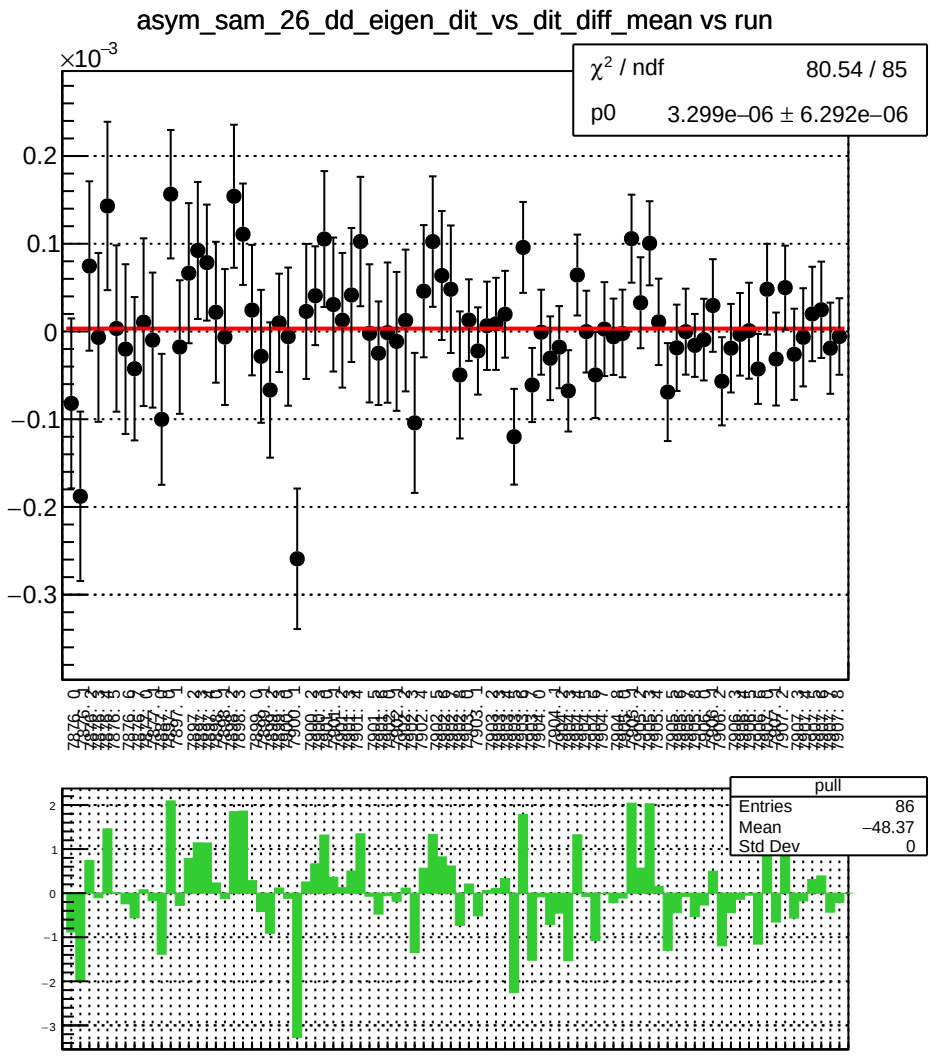

pull1D
Entries 86
Mean −0.01628
Std Dev 0.9397

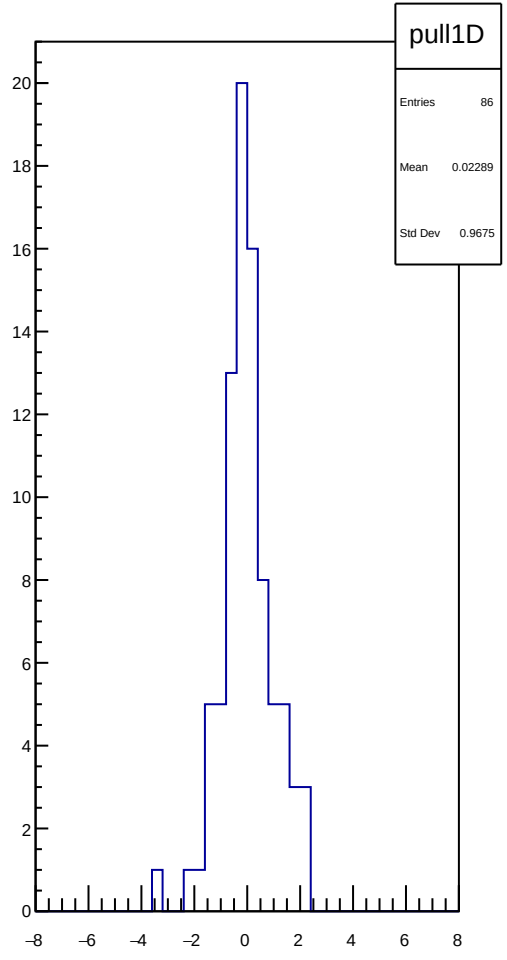

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.647e+04 / 85
p0 136.1 ± 0.1053
170
160
150
140
130
120
110
100
90
80

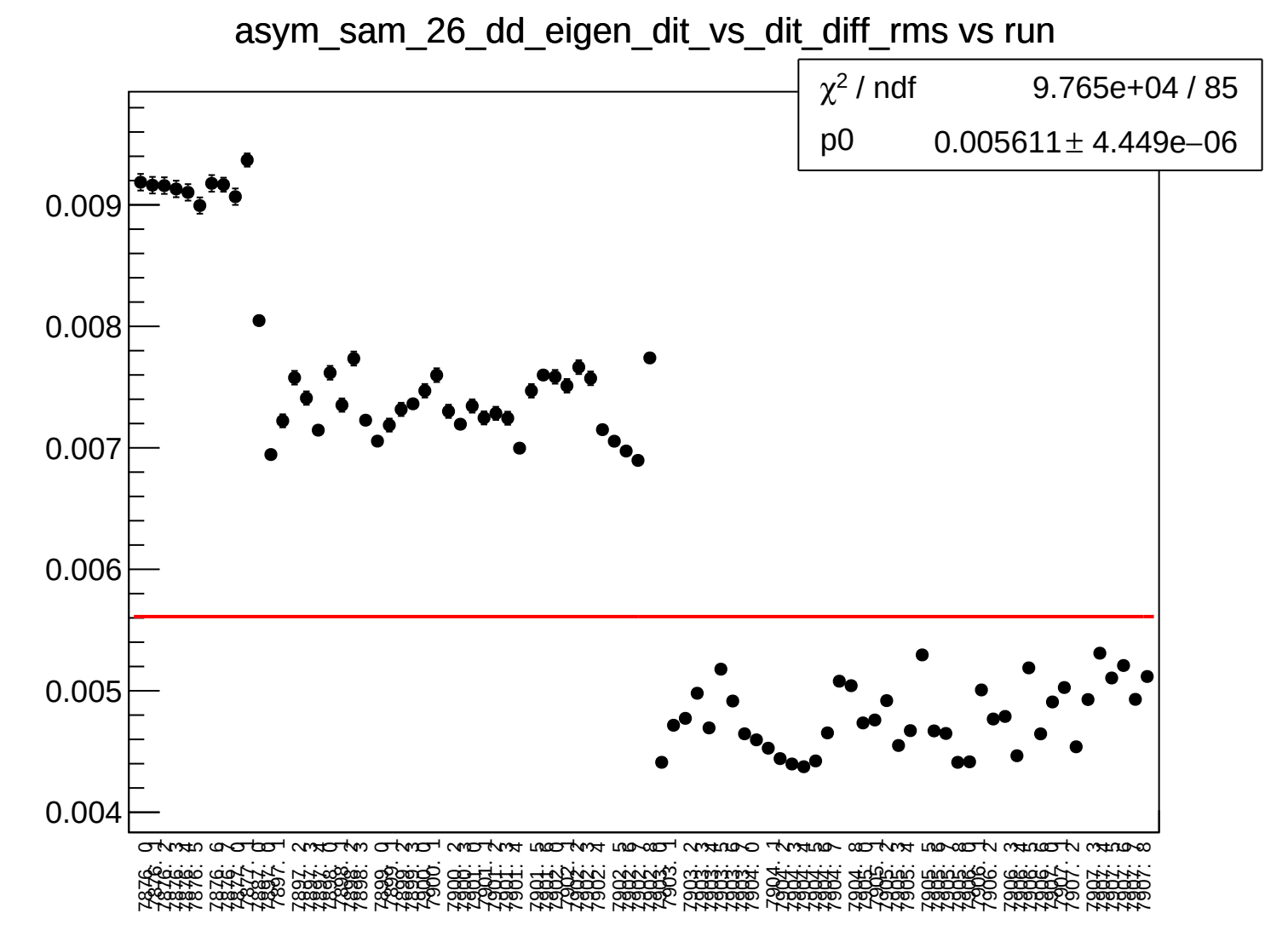

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.96 / 85
p0 0.2167 ± 0.1489
pull
Entries 86
Mean −82.36
Std Dev 0

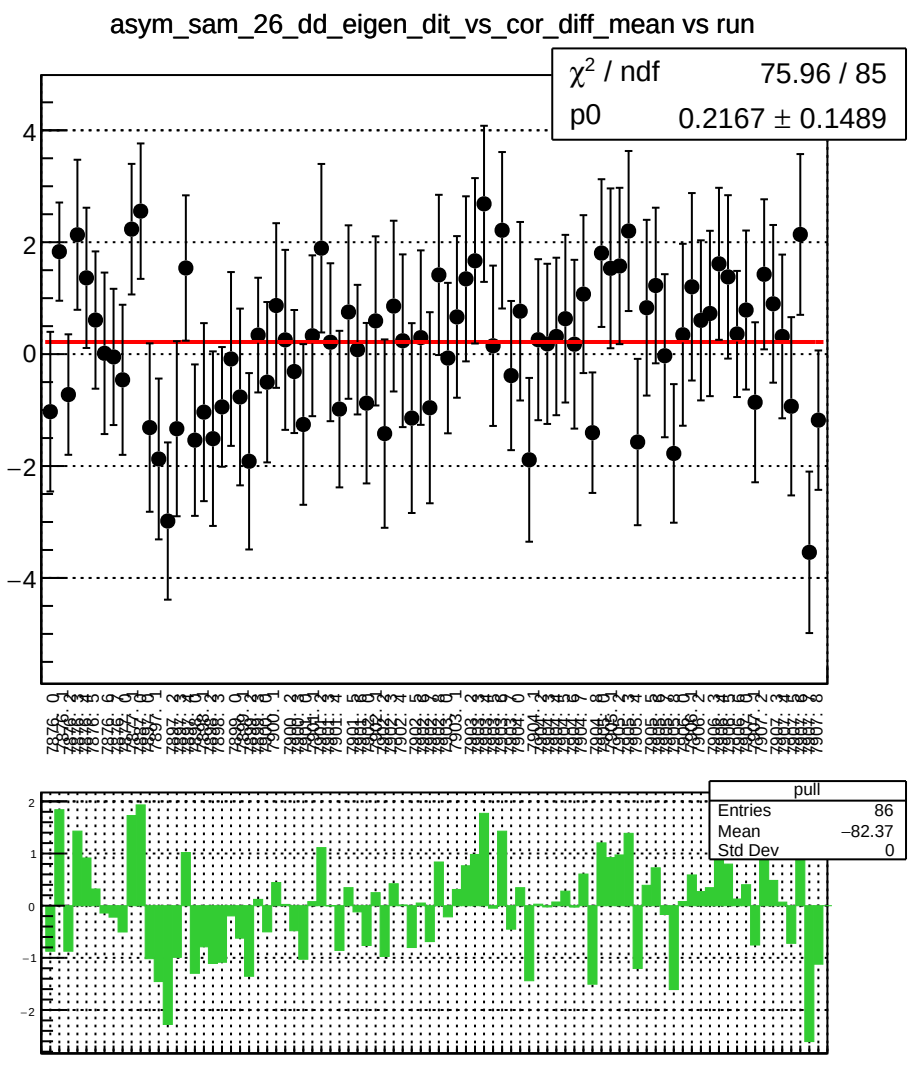

pull1D
Entries 86
Mean −0.01628
Std Dev 0.9397

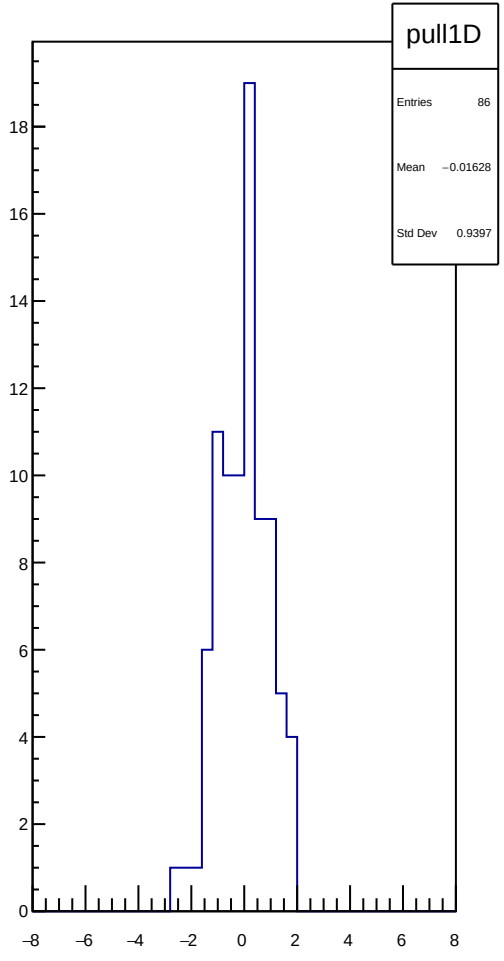

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.647e+04 / 85
p0 136.1 ± 0.1053
170
160
150
140
130
120
110
100
90
80

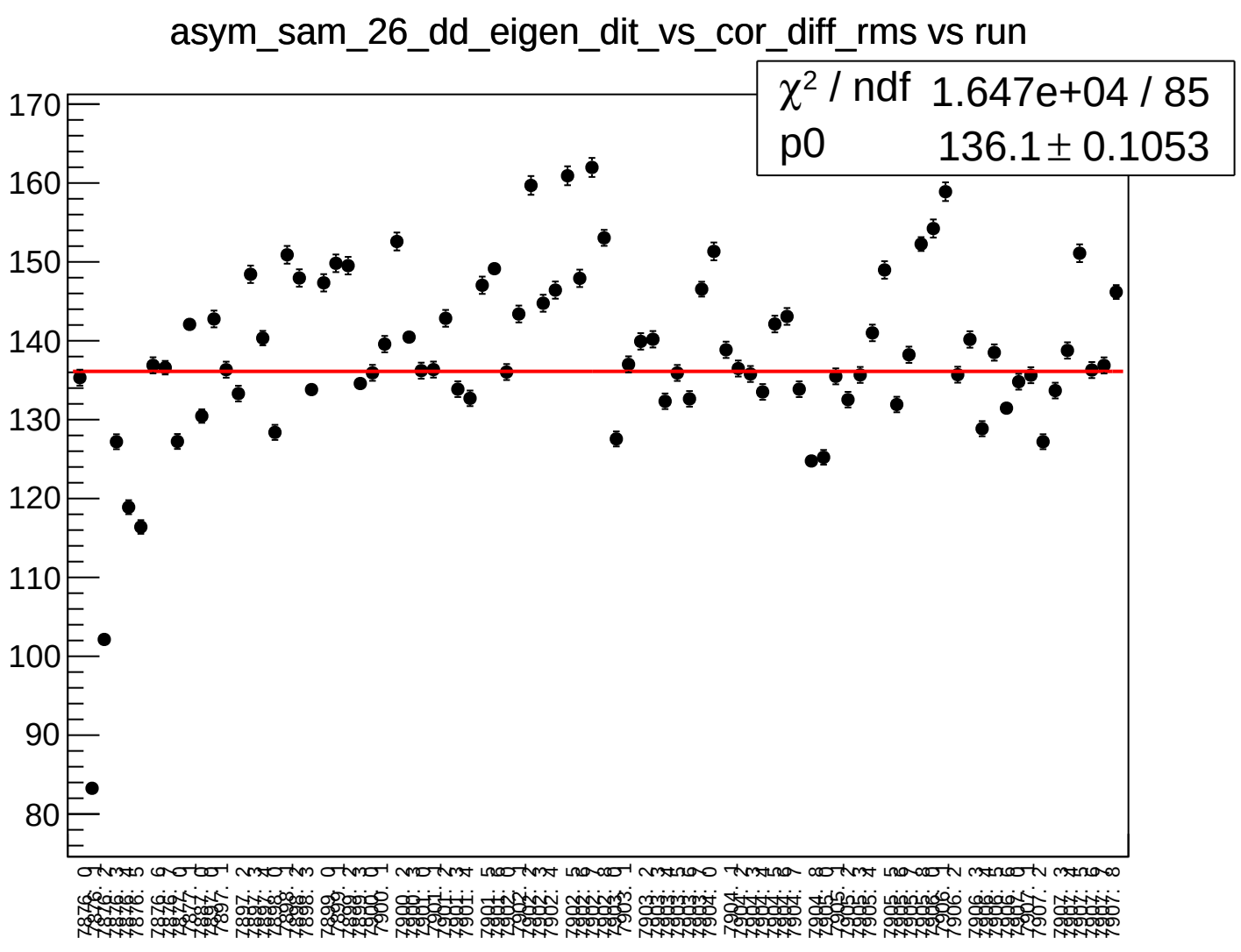

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 80.54 / 85
p0 3.299e−06 ± 6.292e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 86
Mean −48.37
Std Dev 0
2
1
0
−1
−2
−3

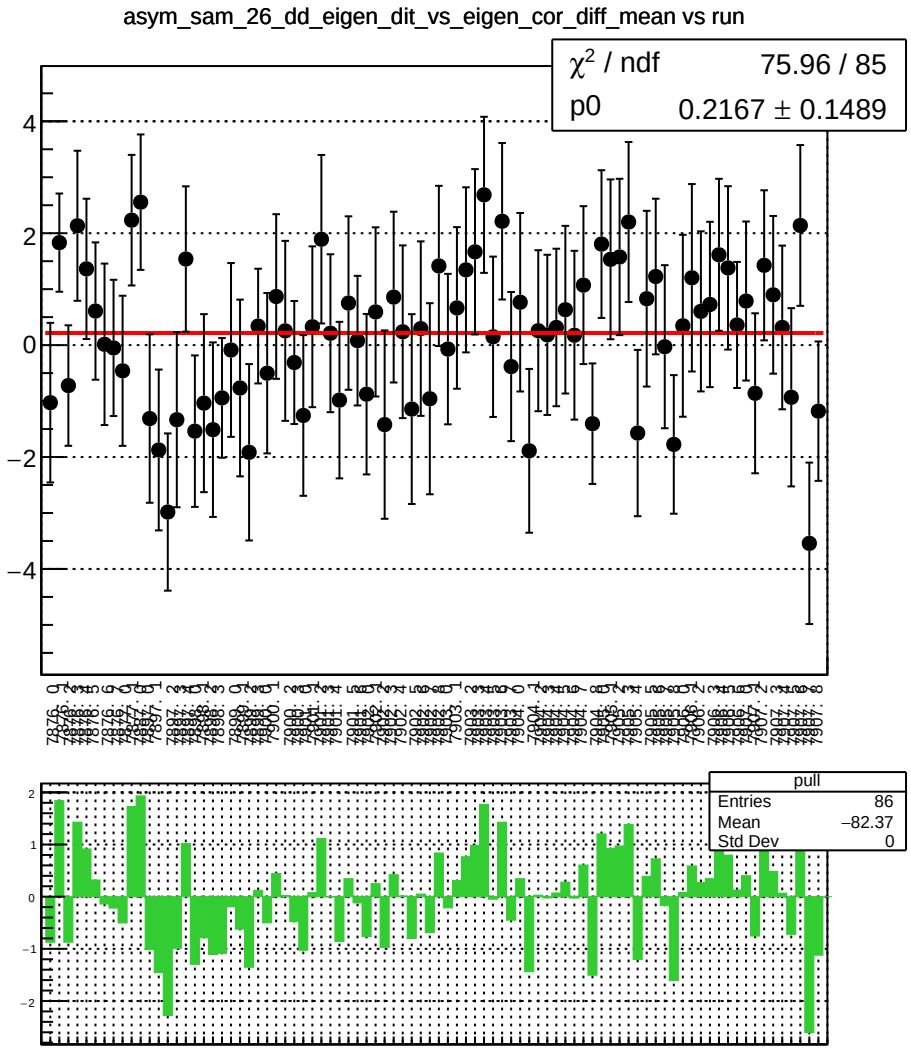

pull1D
Entries 86
Mean 0.02289
Std Dev 0.9675
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

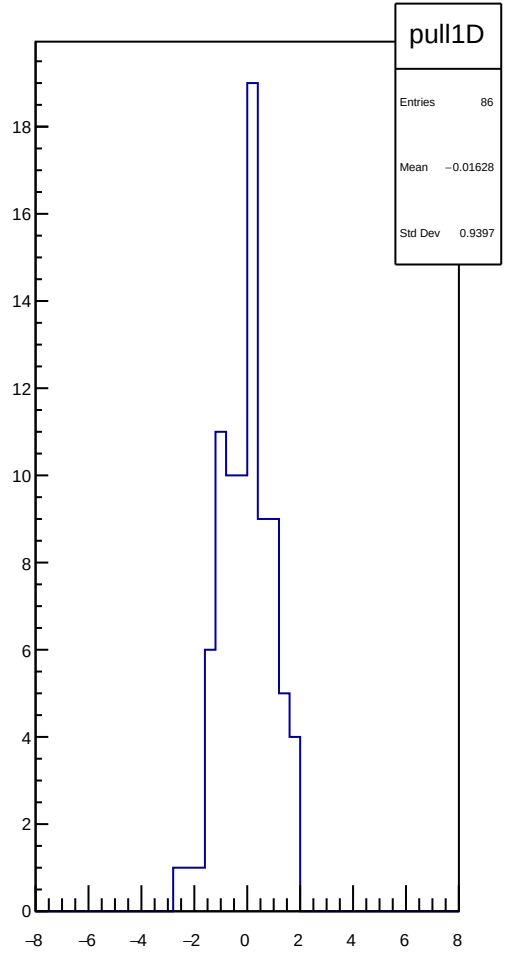

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.765e+04 / 85
p0 0.005611 ± 4.449e−06
0.009
0.008
0.007
0.006
0.005
0.004

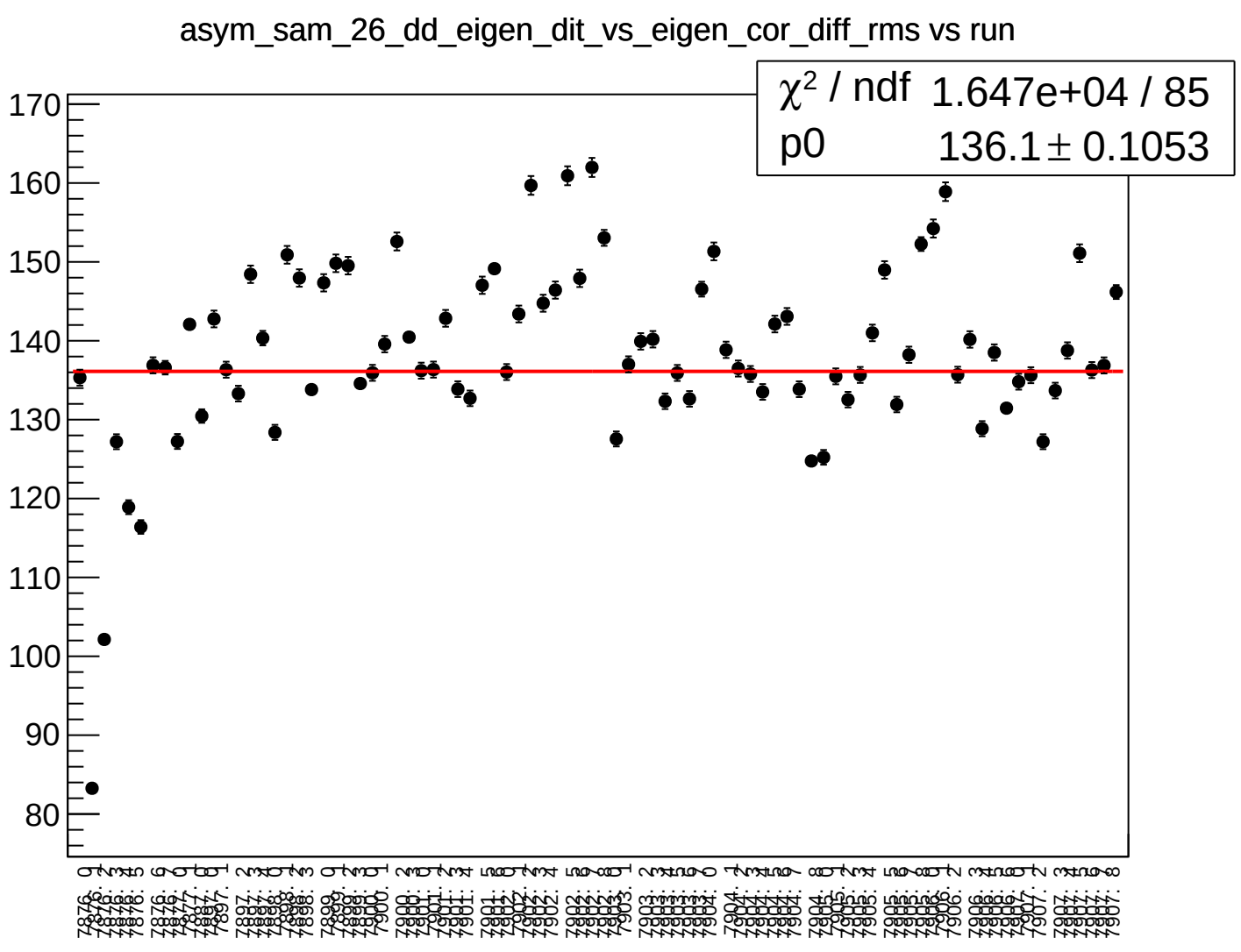

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.96 / 85
p0 0.2167 ± 0.1489
pull
Entries 86
Mean −82.37
Std Dev 0

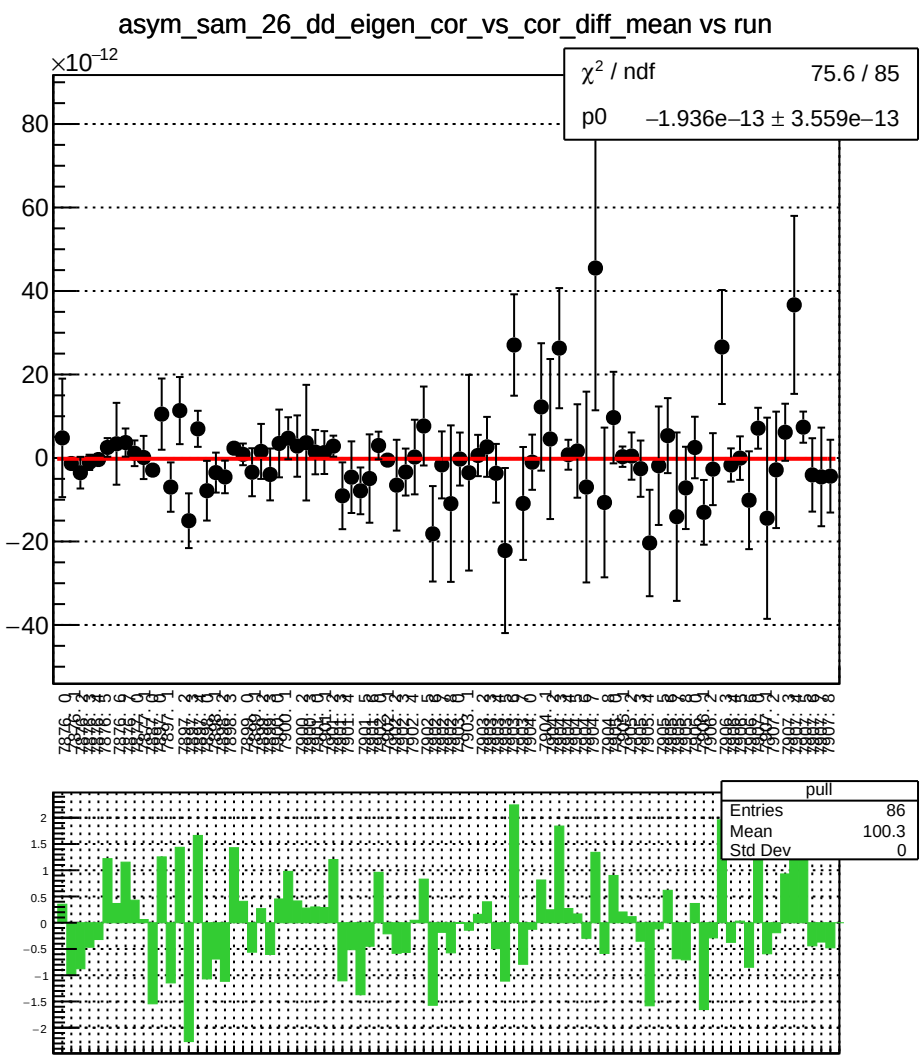

pull1D
Entries 86
Mean −0.01628
Std Dev 0.9397

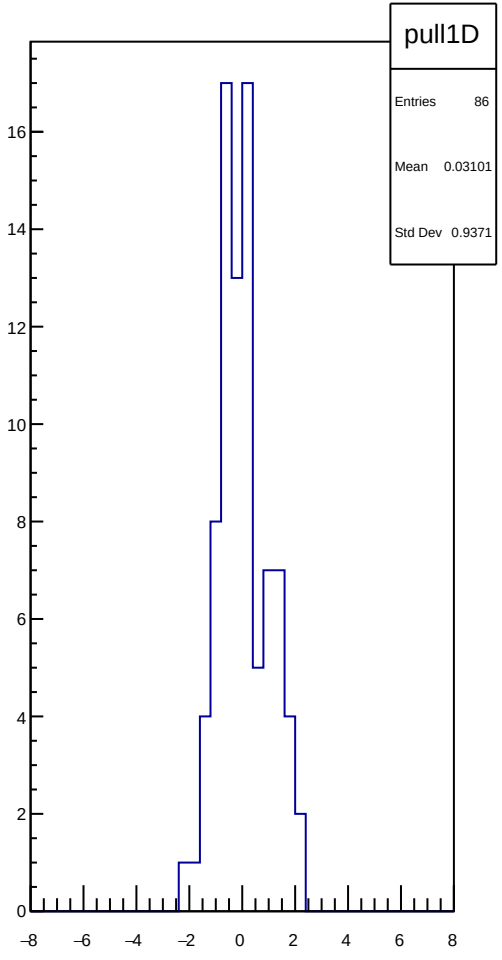

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.647e+04 / 85
p0 136.1 ± 0.1053
170
160
150
140
130
120
110
100
90
80

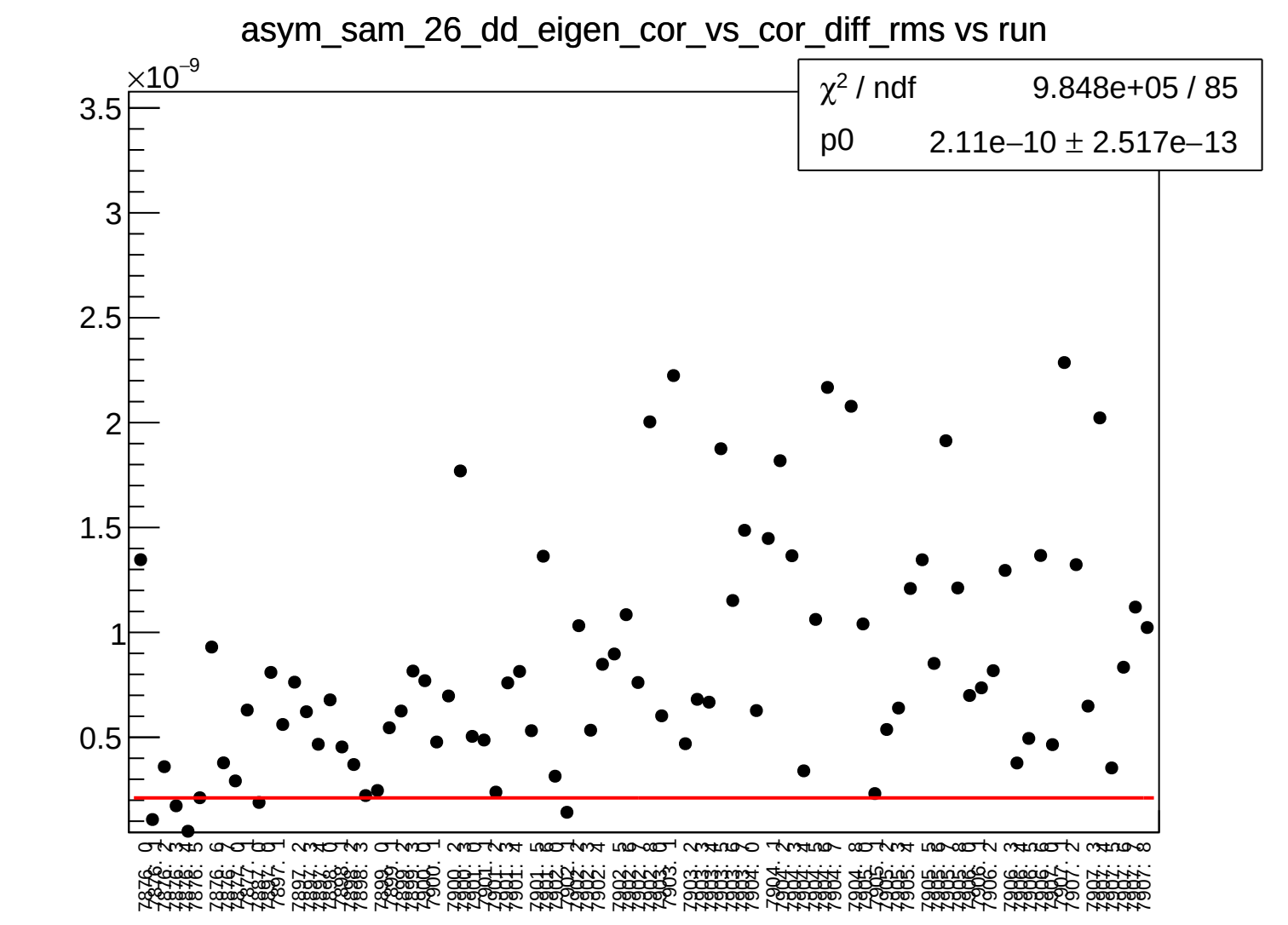

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.96 / 85
p0 0.2167 ± 0.1489
pull
Entries 86
Mean −82.37
Std Dev 0

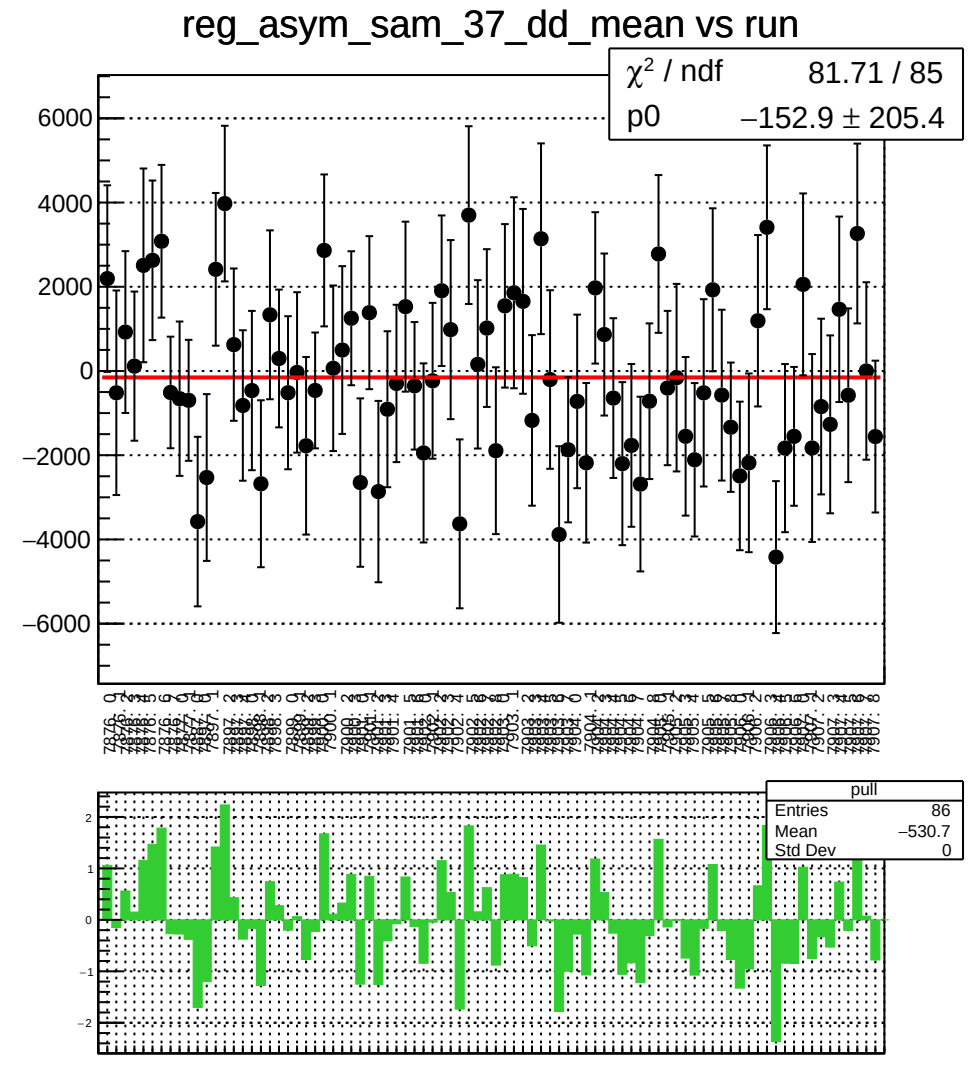

pull1D
Entries 86
Mean −0.01628
Std Dev 0.9397

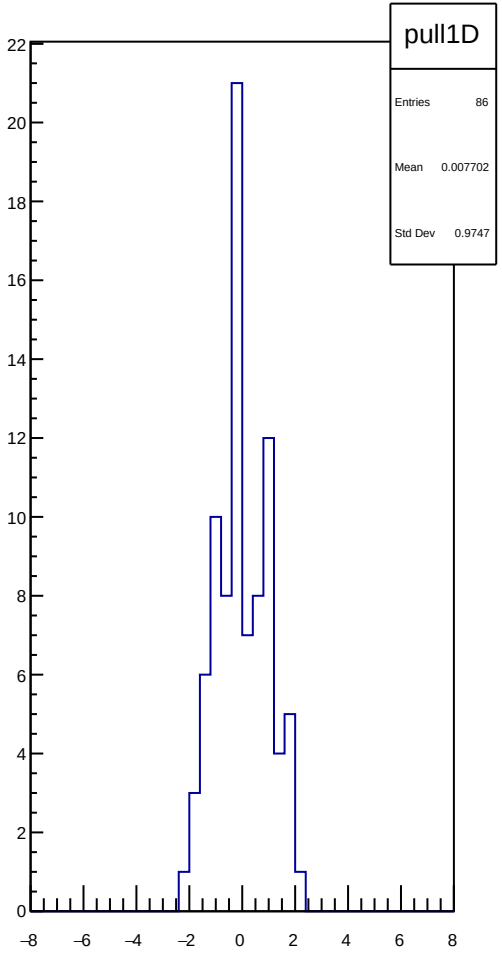

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.647e+04 / 85
p0 136.1 ± 0.1053
170
160
150
140
130
120
110
100
90
80

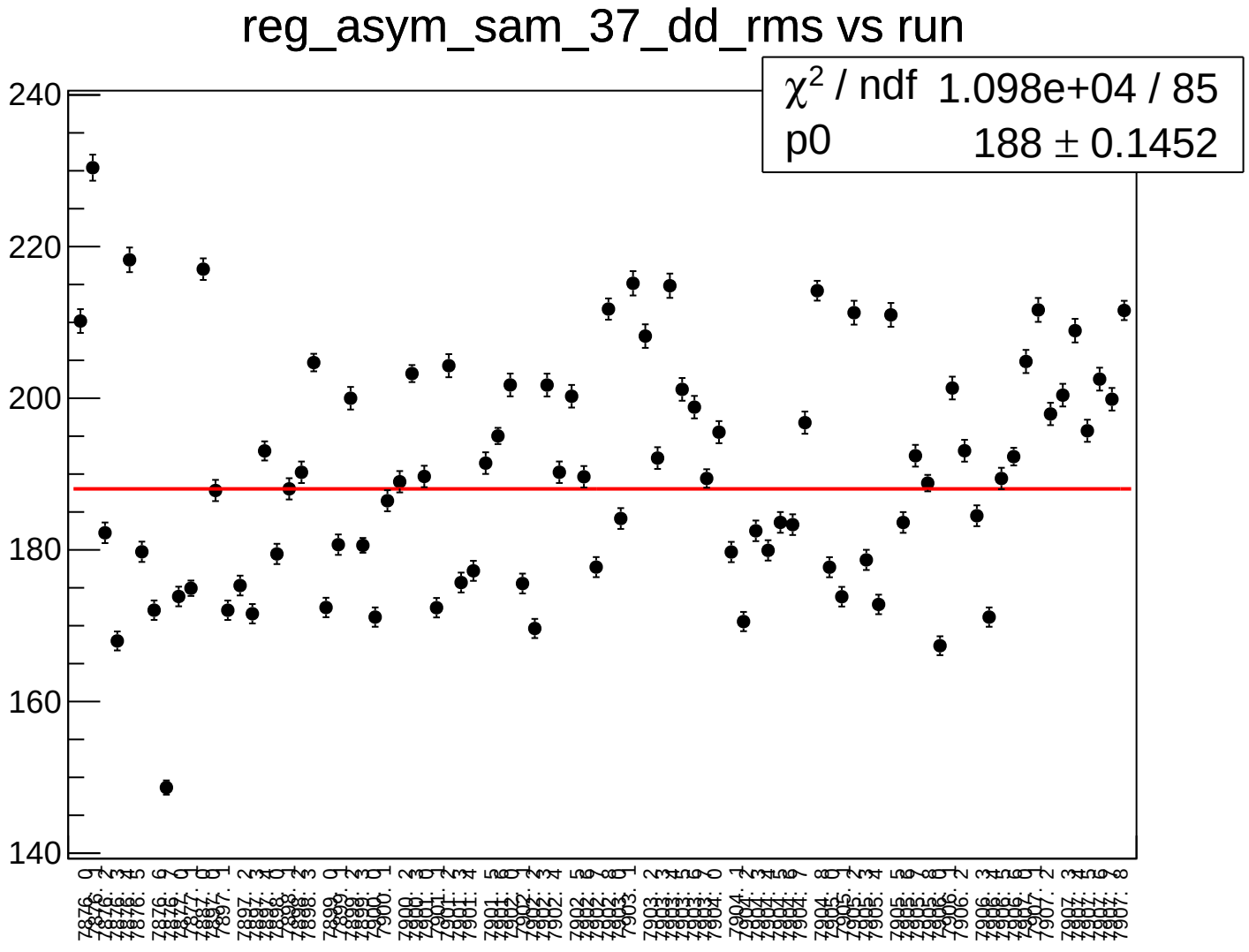

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.6 / 85
p0 −1.936e−13 ± 3.559e−13
pull
Entries 86
Mean 100.3
Std Dev 0

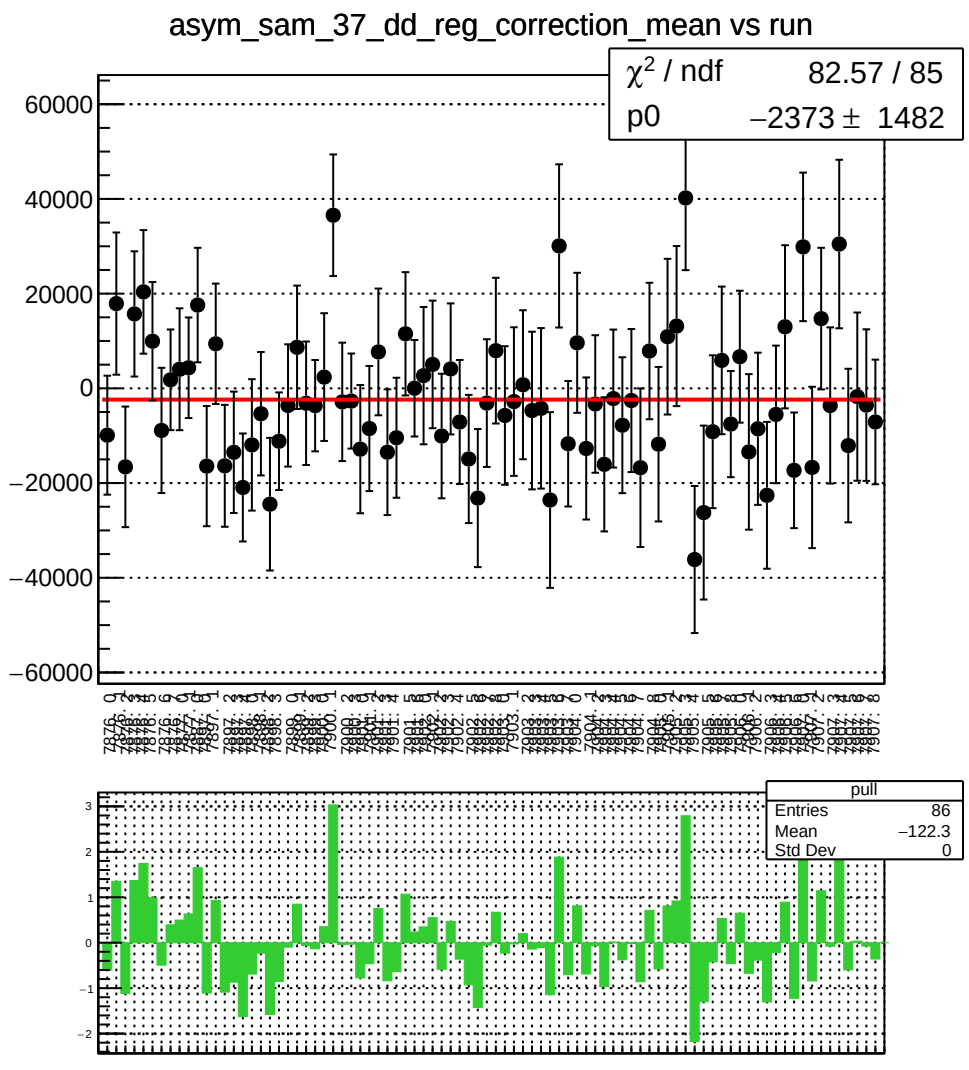

pull1D
Entries 86
Mean 0.03101
Std Dev 0.9371

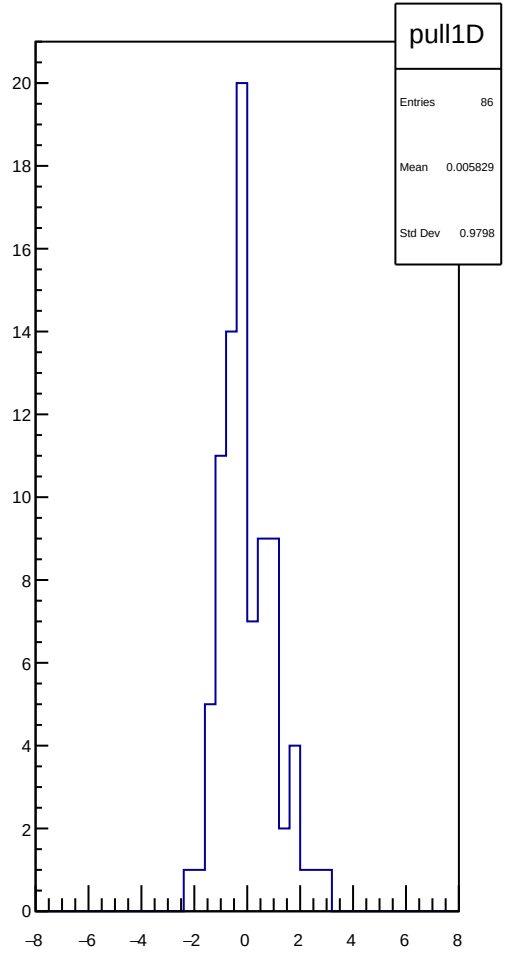

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.848e+05 / 85
p0 2.11e−10 ± 2.517e−13
3.5
3
2.5
2
1.5
1
0.5

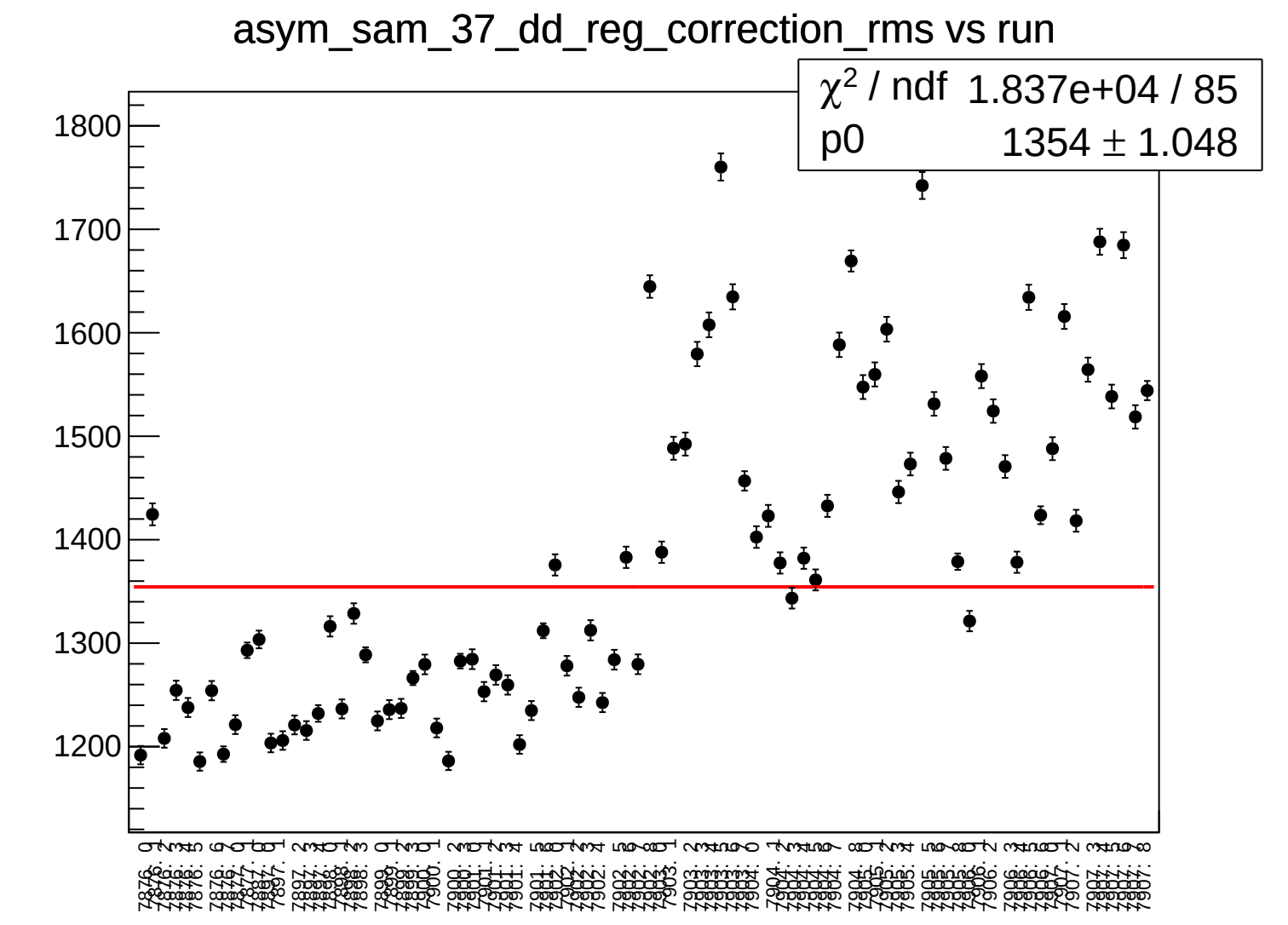

reg_asym_sam_37_dd_mean vs run
χ² / ndf 81.71 / 85
p0 −152.9 ± 205.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −530.7
Std Dev 0
2
1
0
−1
−2

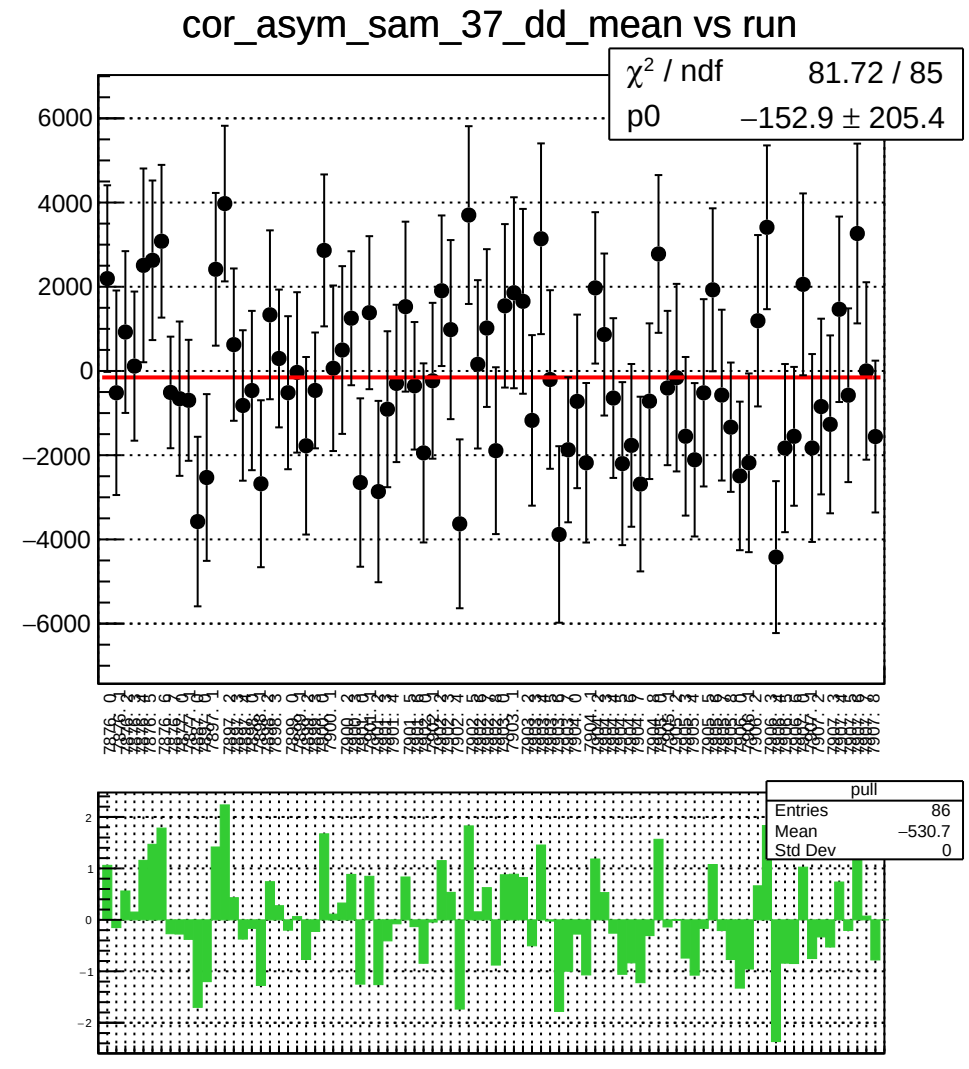

pull1D
Entries 86
Mean 0.007702
Std Dev 0.9747
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

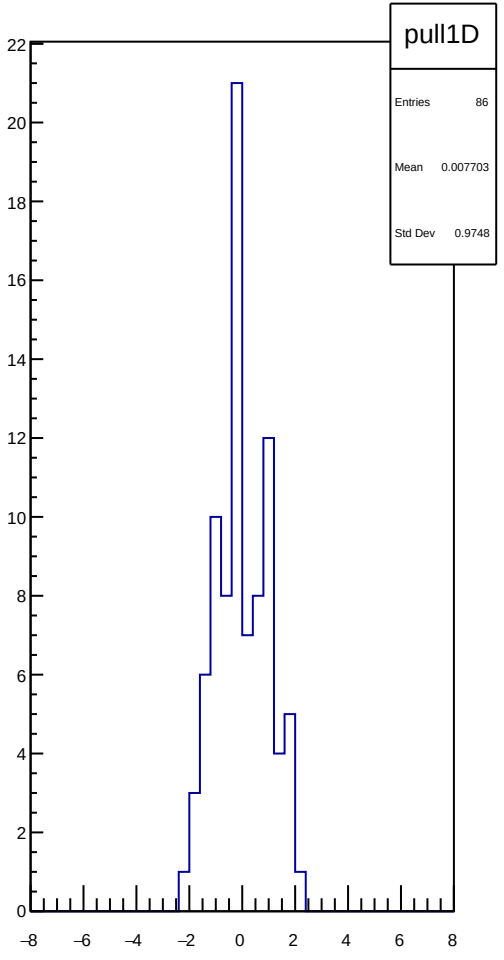

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.098e+04 / 85
p0 188 ± 0.1452
240
220
200
180
160
140

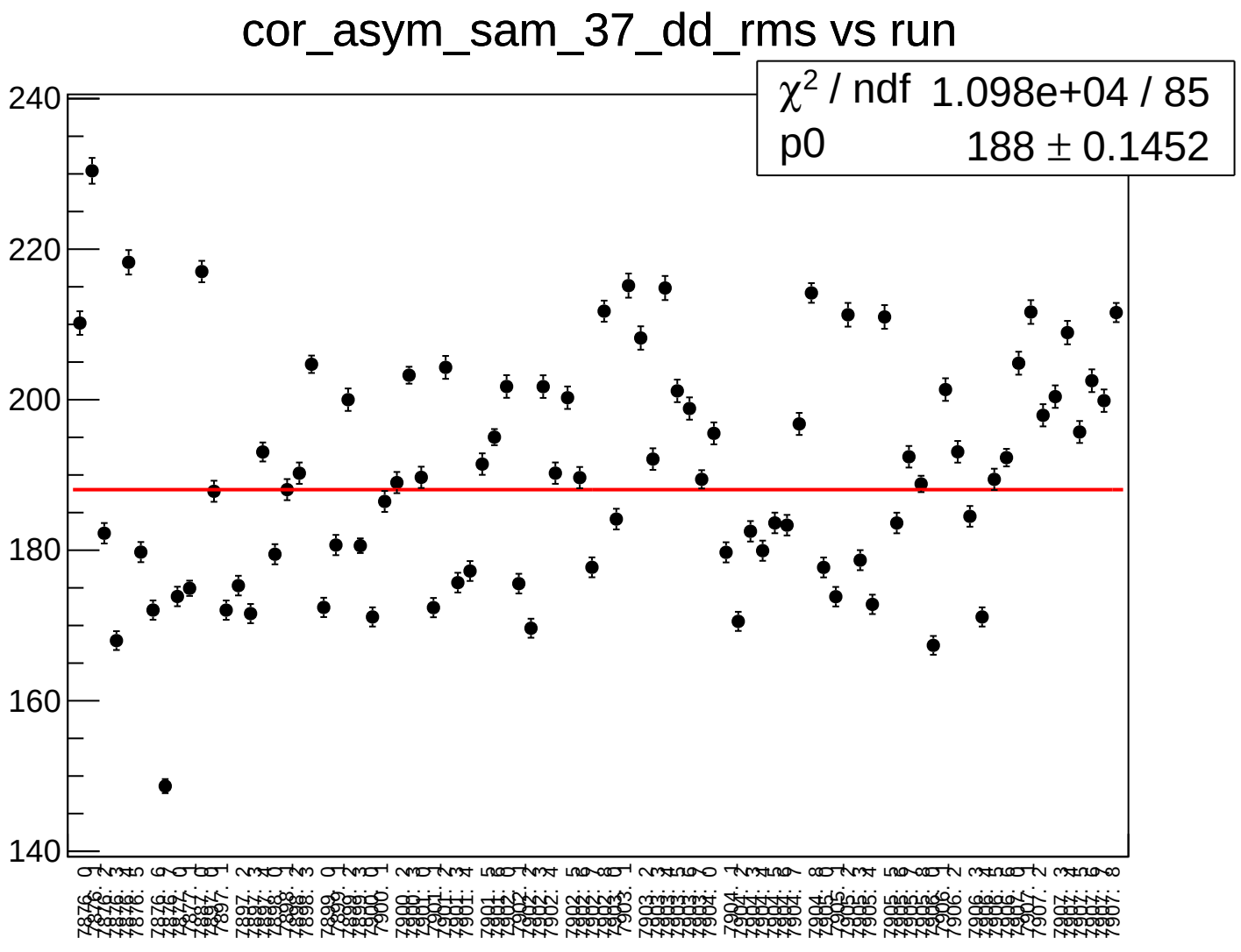

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 82.57 / 85
p0 −2373 ± 1482
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −122.3
Std Dev 0
3
2
1
0
−1
−2

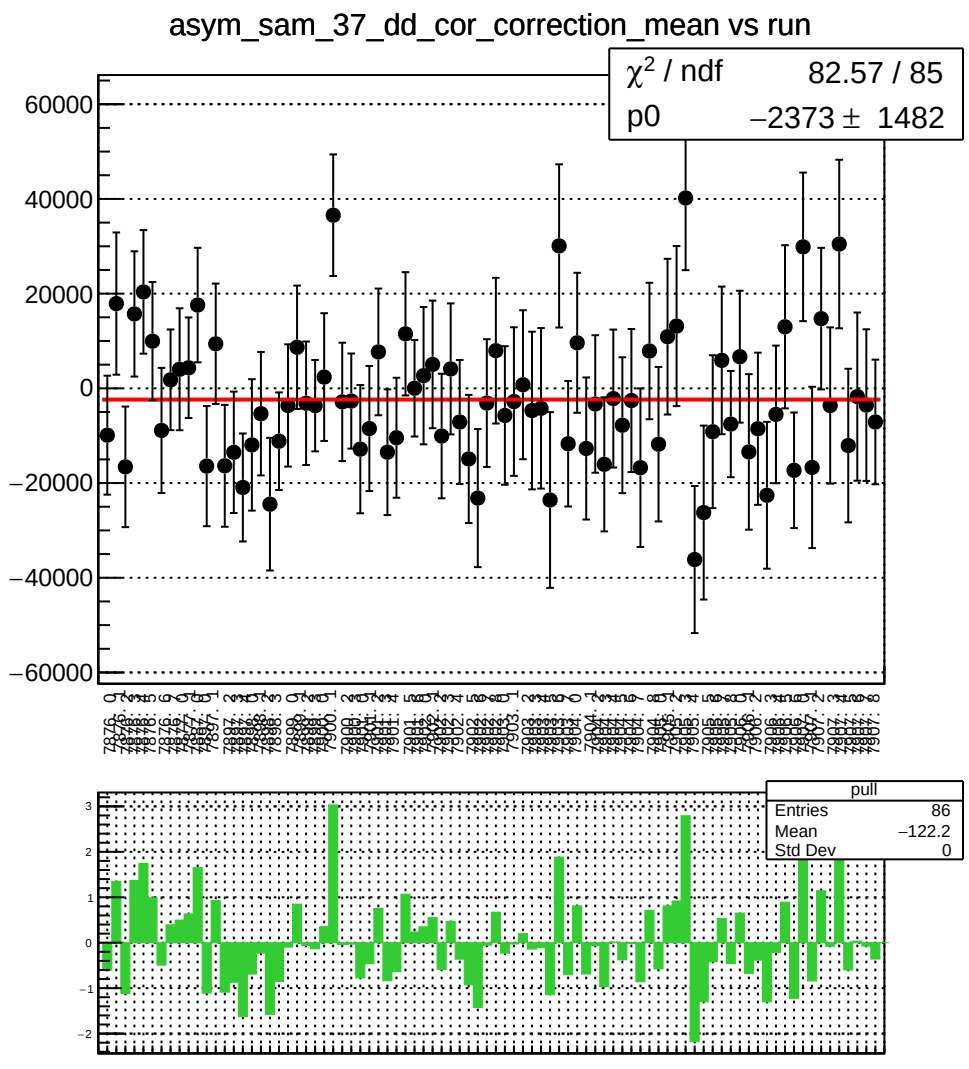

pull1D
Entries 86
Mean 0.005829
Std Dev 0.9798
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

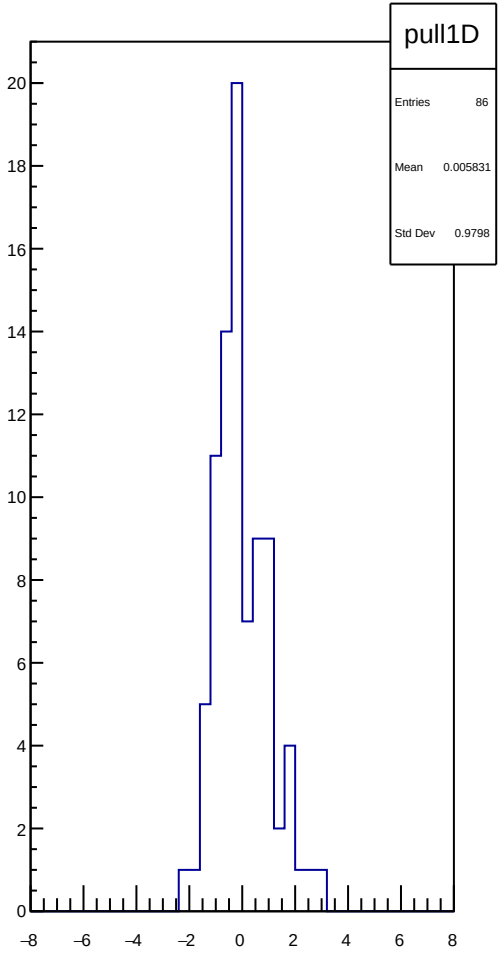

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.837e+04 / 85
p0 1354 ± 1.048
1800
1700
1600
1500
1400
1300
1200

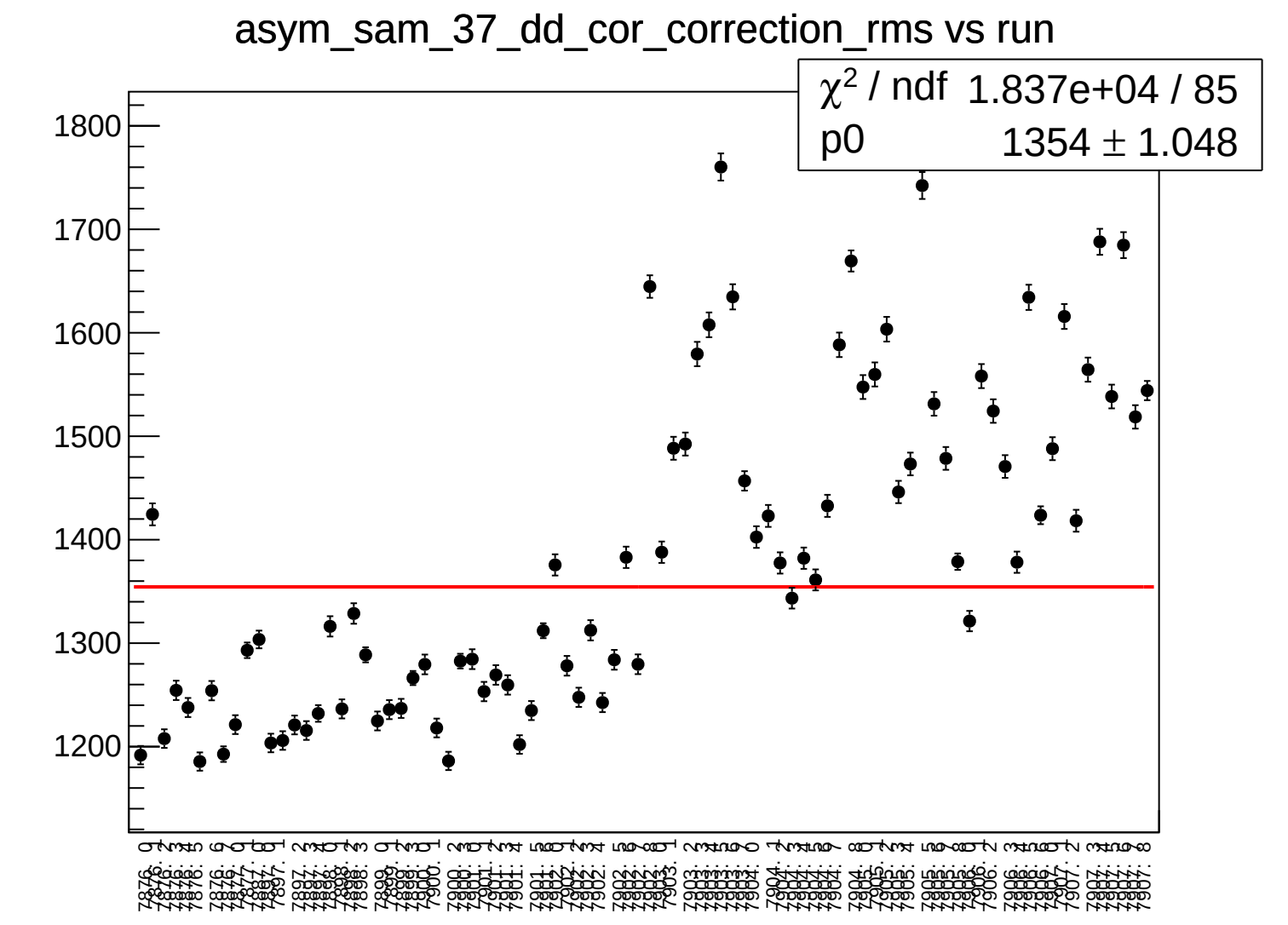

cor_asym_sam_37_dd_mean vs run
χ² / ndf 81.72 / 85
p0 −152.9 ± 205.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −530.7
Std Dev 0
2
1
0
−1
−2

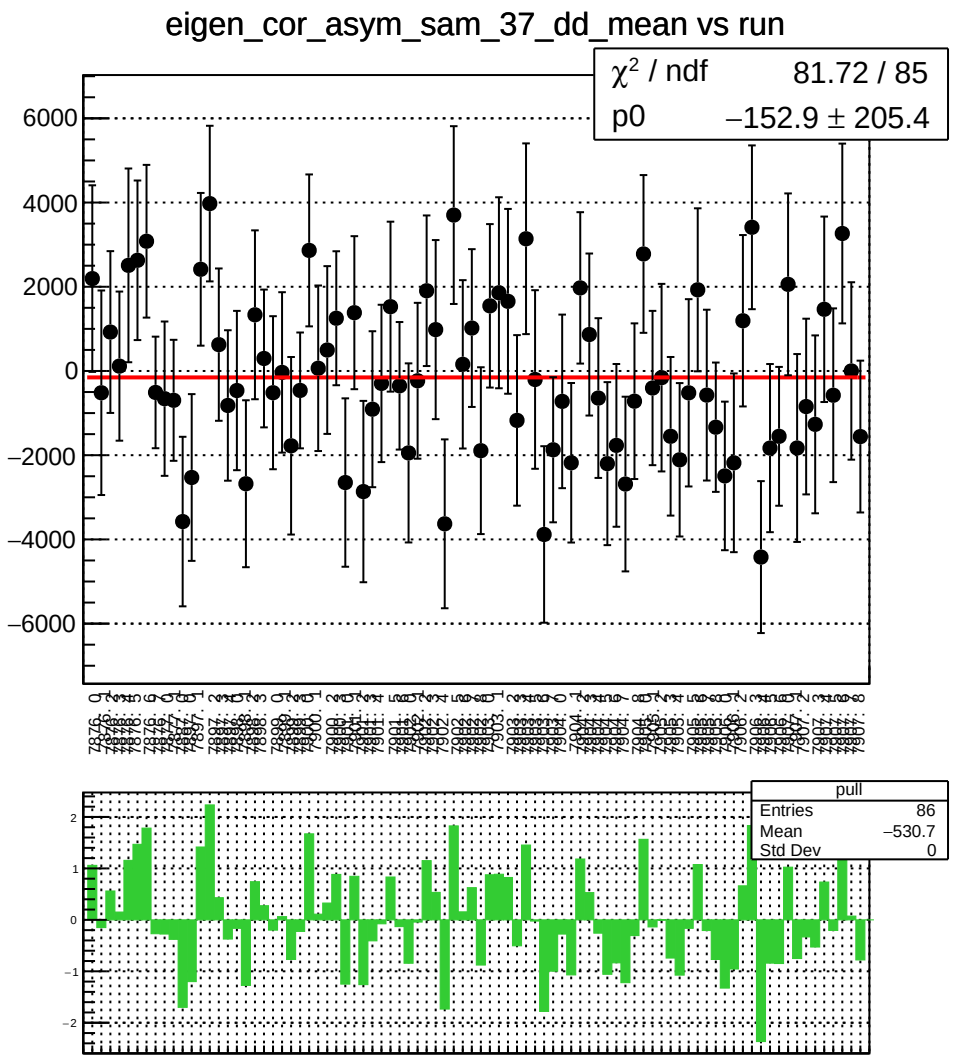

pull1D
Entries 86
Mean 0.007703
Std Dev 0.9748
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

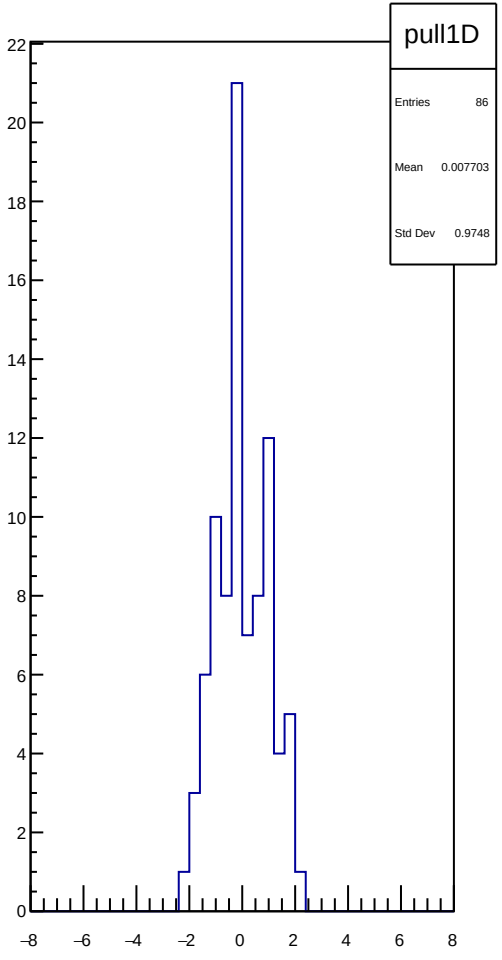

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.098e+04 / 85
p0 188 ± 0.1452
240
220
200
180
160
140

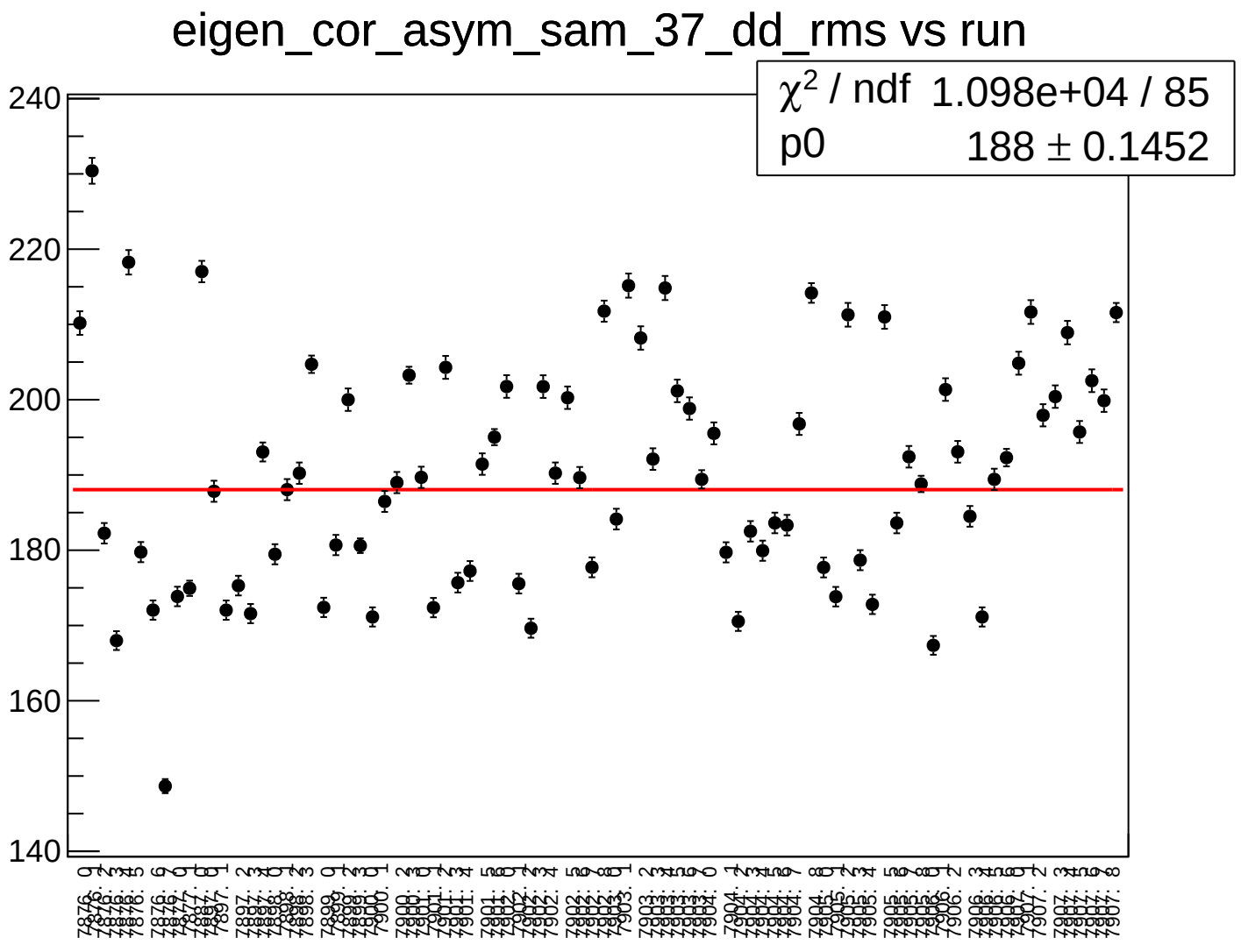

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 82.57 / 85
p0 −2373 ± 1482
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −122.2
Std Dev 0
3
2
1
0
−1
−2

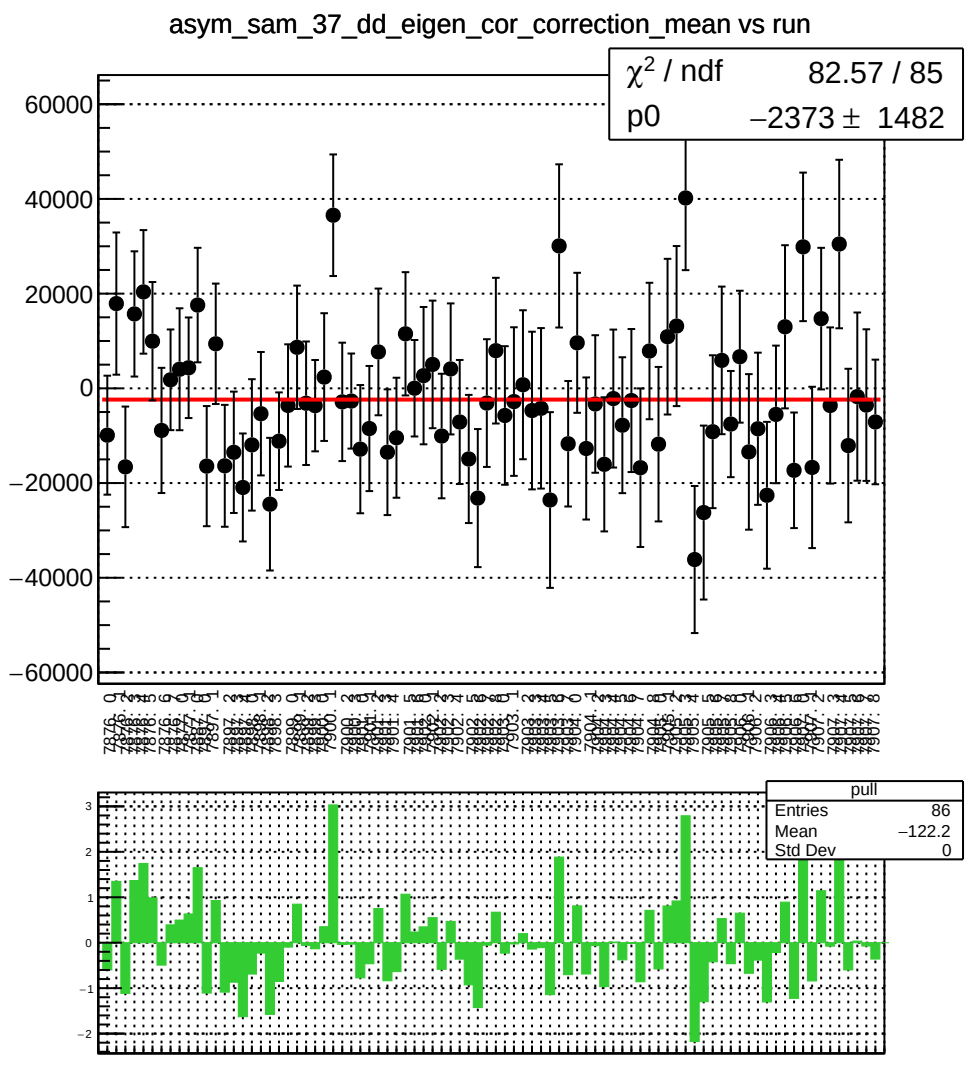

pull1D
Entries 86
Mean 0.005831
Std Dev 0.9798
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

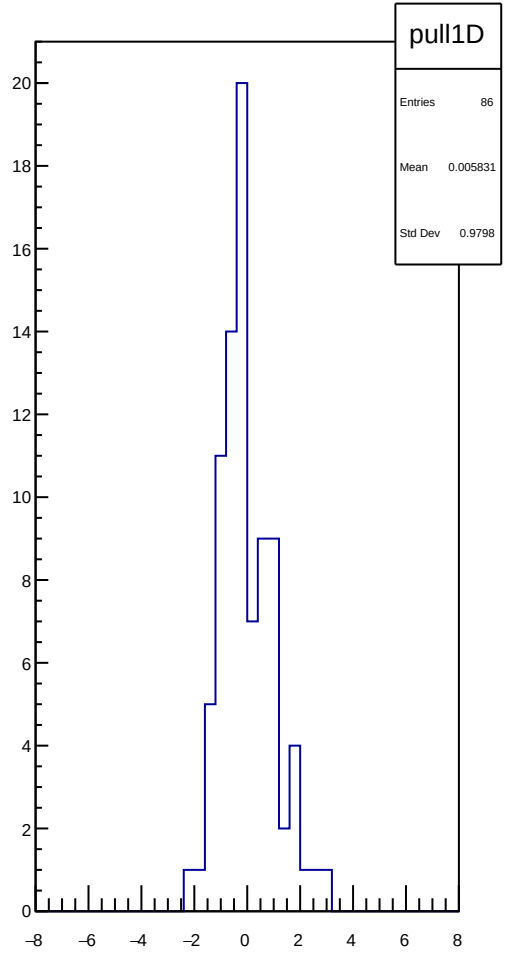

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.837e+04 / 85
p0 1354 ± 1.048
1800
1700
1600
1500
1400
1300
1200

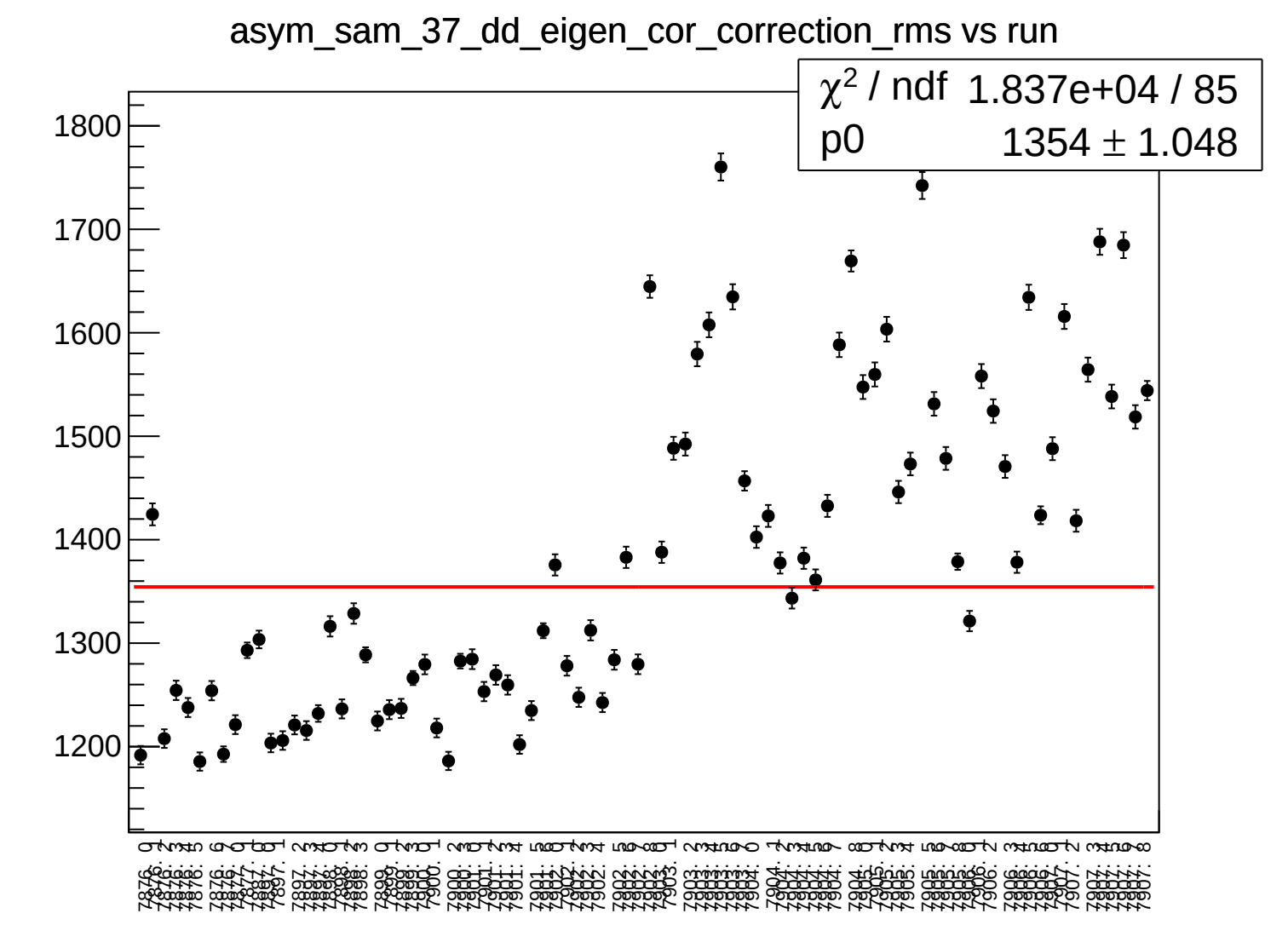

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 81.72 / 85
p0 −152.9 ± 205.4
pull
Entries 86
Mean −530.7
Std Dev 0

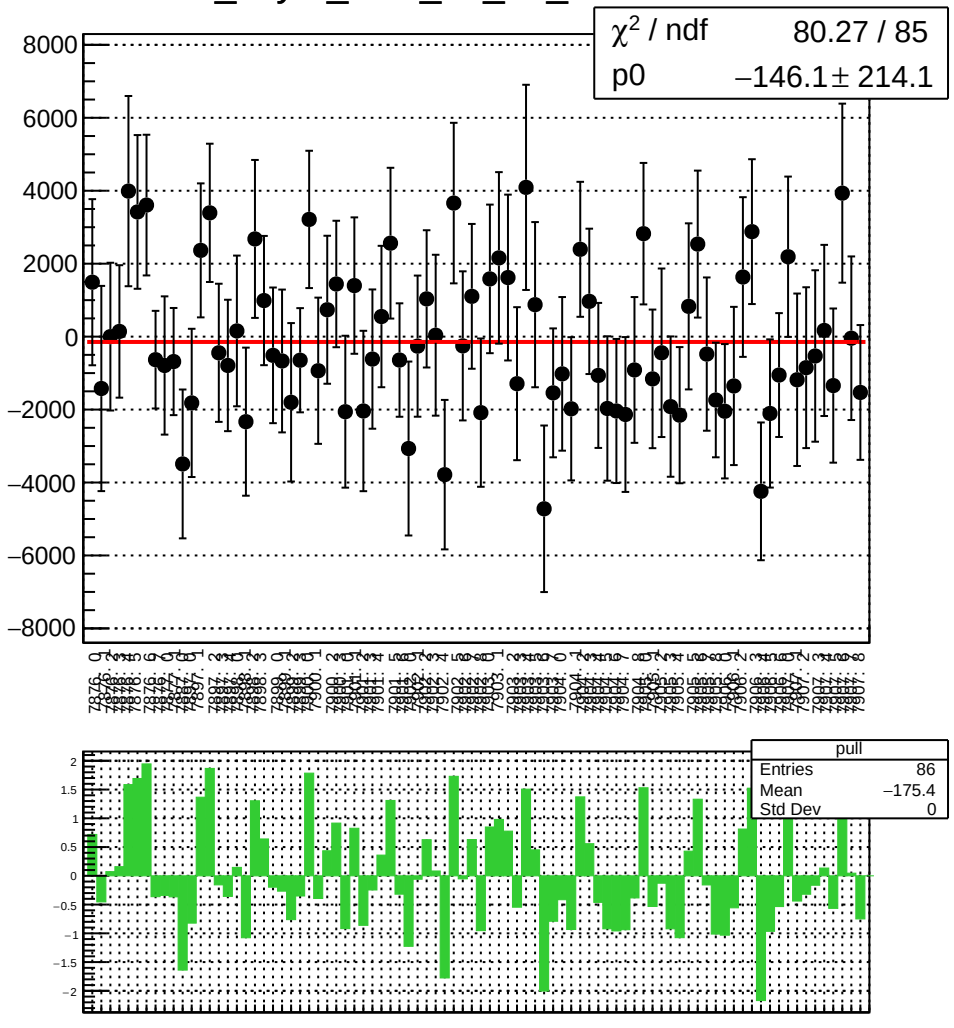

pull1D
Entries 86
Mean 0.007703
Std Dev 0.9748

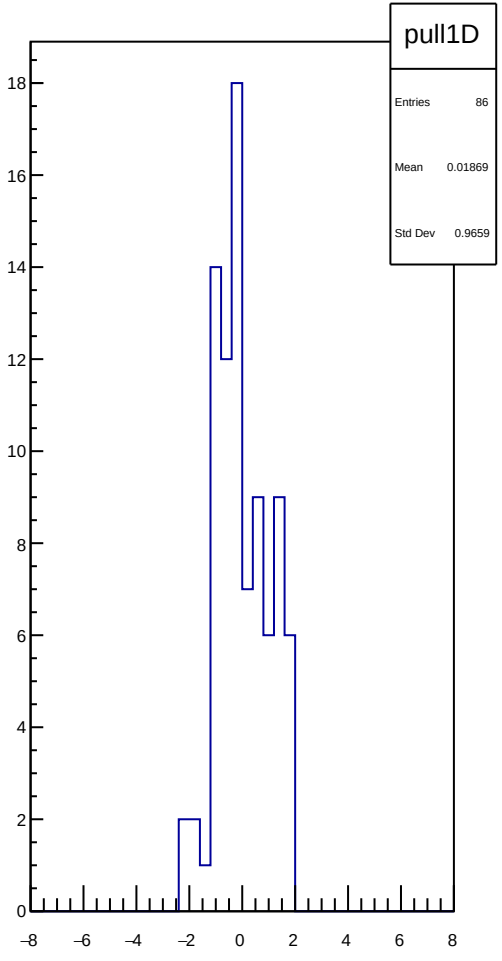

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.098e+04 / 85
p0 188 ± 0.1452
240
220
200
180
160
140

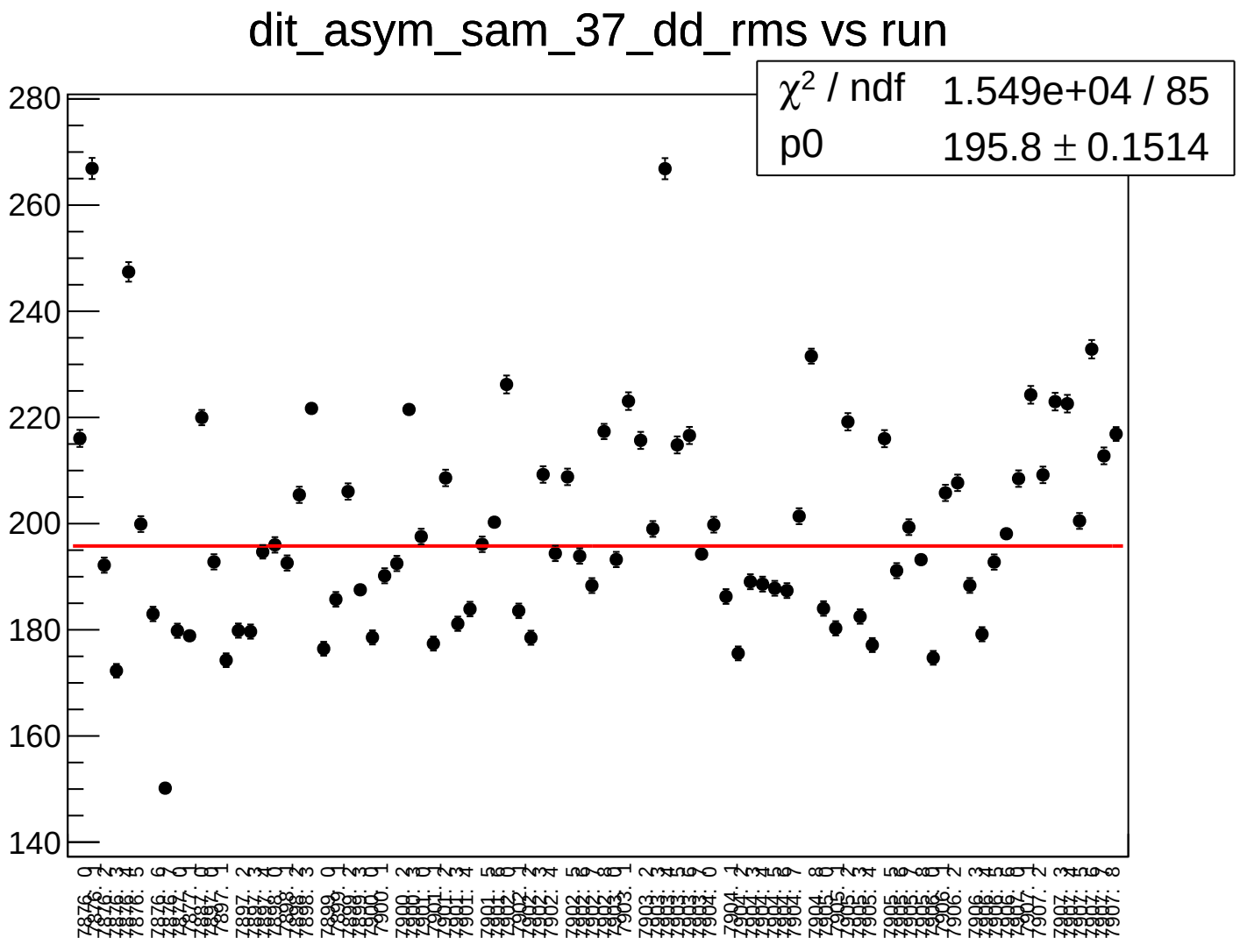

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.57 / 85
p0 −2373 ± 1482
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −122.2
Std Dev 0
3
2
1
0
−1
−2

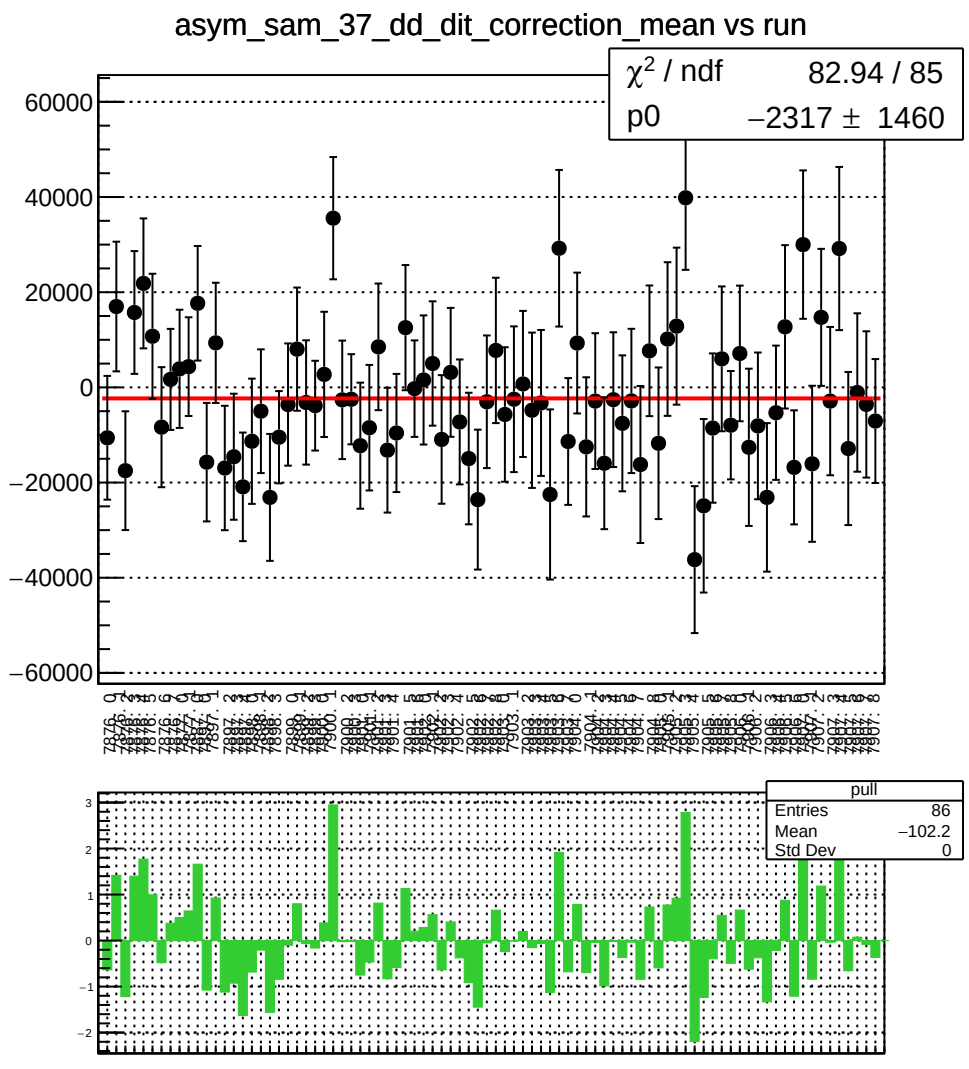

pull1D
Entries 86
Mean 0.005831
Std Dev 0.9798
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

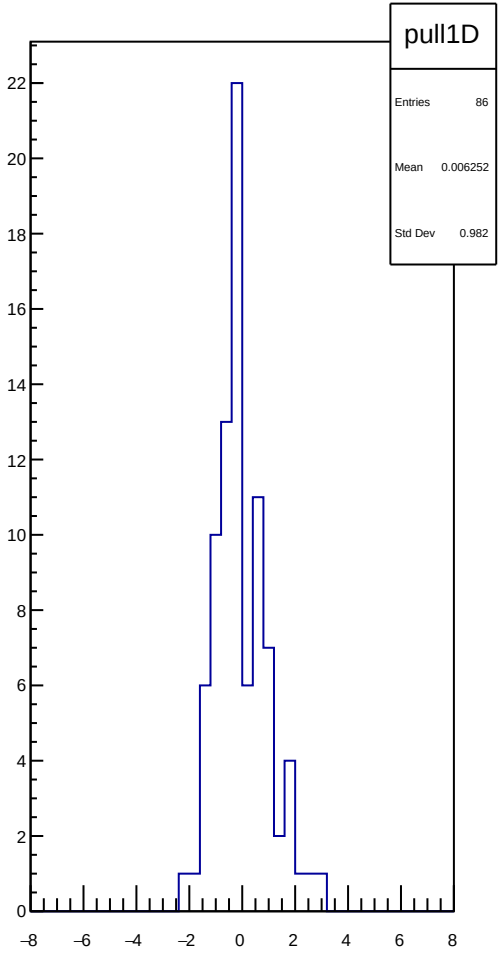

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.837e+04 / 85
p0 1354 ± 1.048
1800
1700
1600
1500
1400
1300
1200

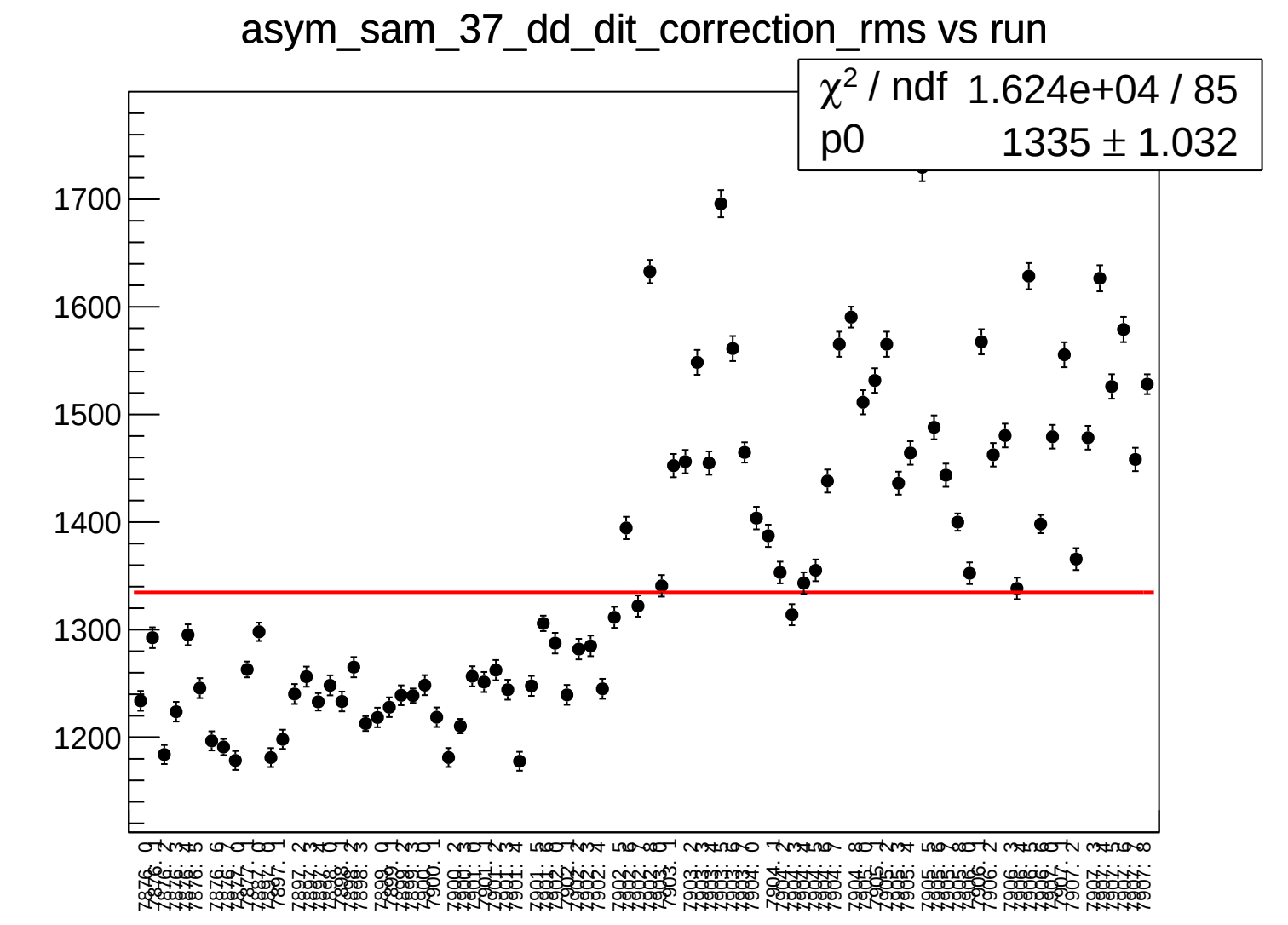

dit_asym_sam_37_dd_mean vs run
χ² / ndf 80.27 / 85
p0 −146.1 ± 214.1
pull
Entries 86
Mean −175.4
Std Dev 0

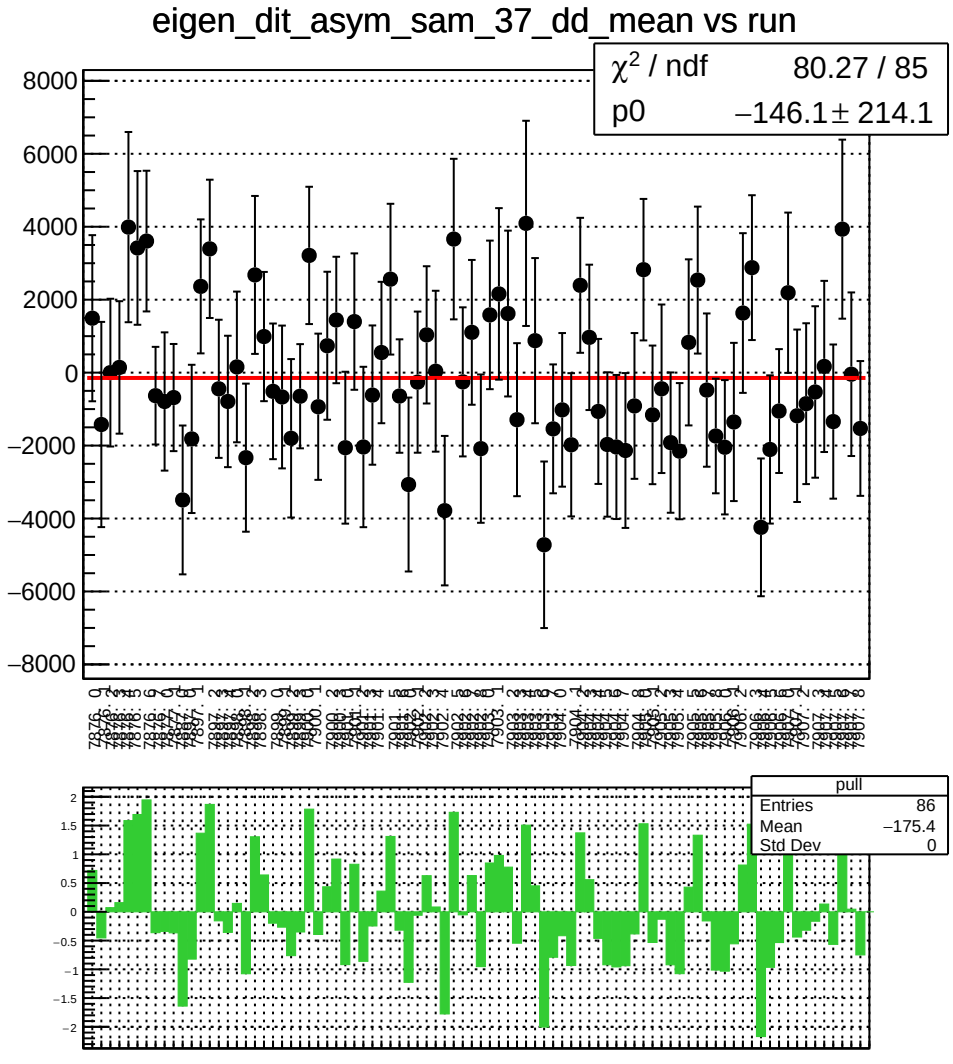

pull1D
Entries 86
Mean 0.01869
Std Dev 0.9659

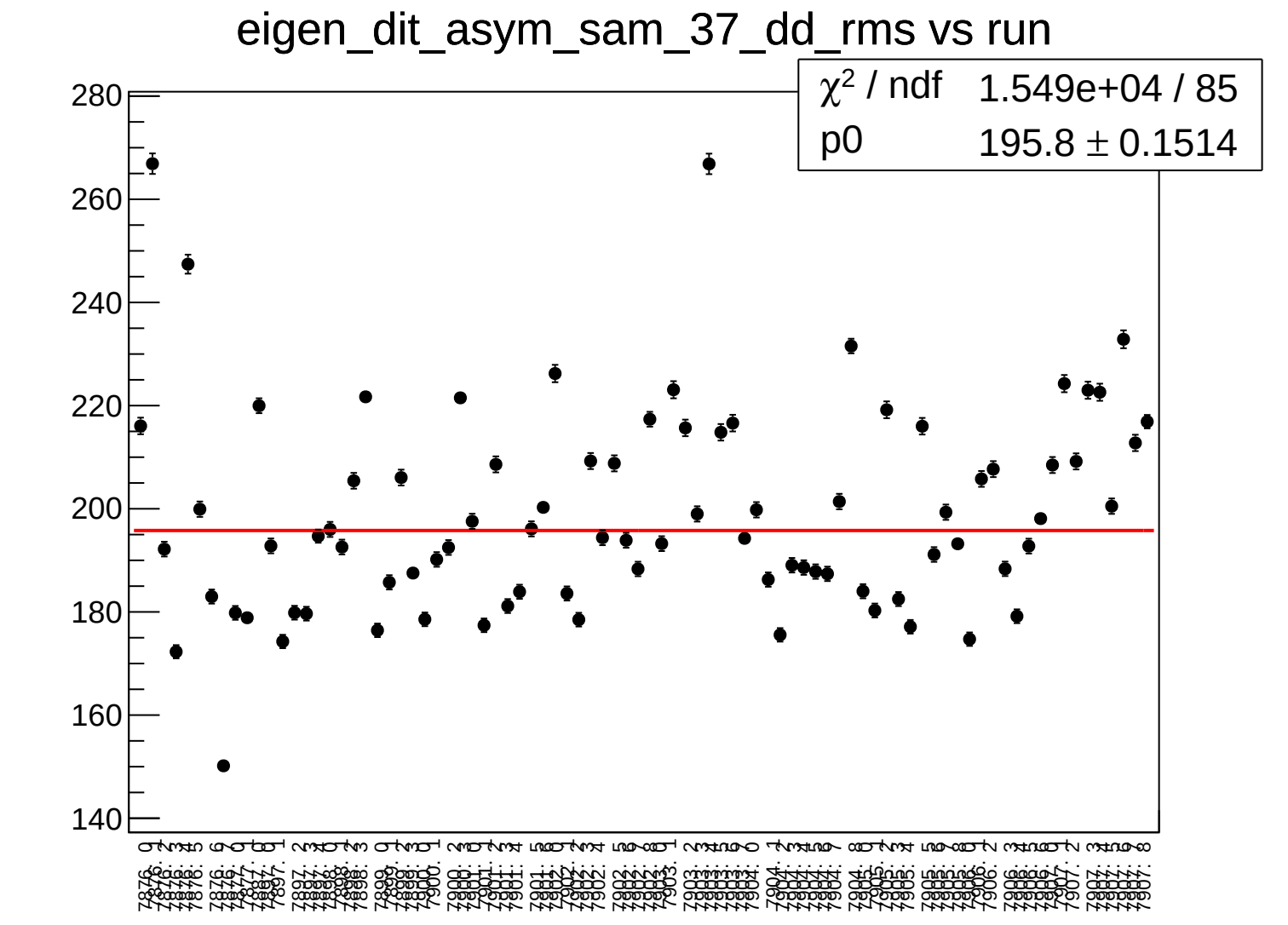

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.549e+04 / 85
p0 195.8 ± 0.1514
280
260
240
220
200
180
160
140

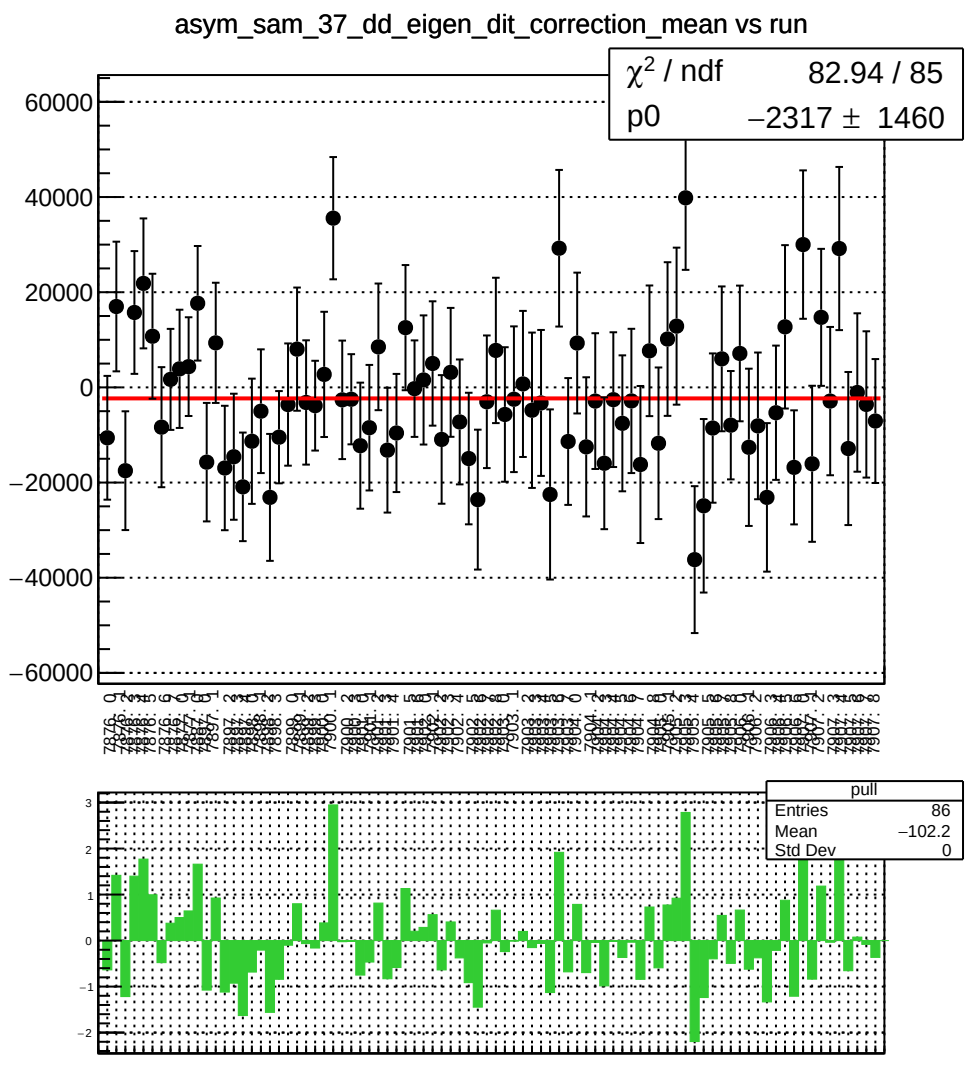

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 82.94 / 85
p0 −2317 ± 1460
pull
Entries 86
Mean −102.2
Std Dev 0

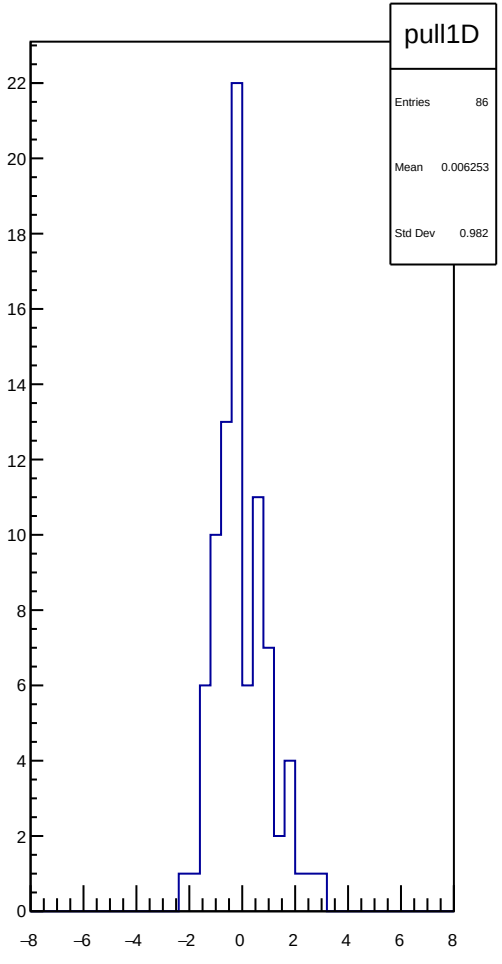

pull1D
Entries 86
Mean 0.006252
Std Dev 0.982

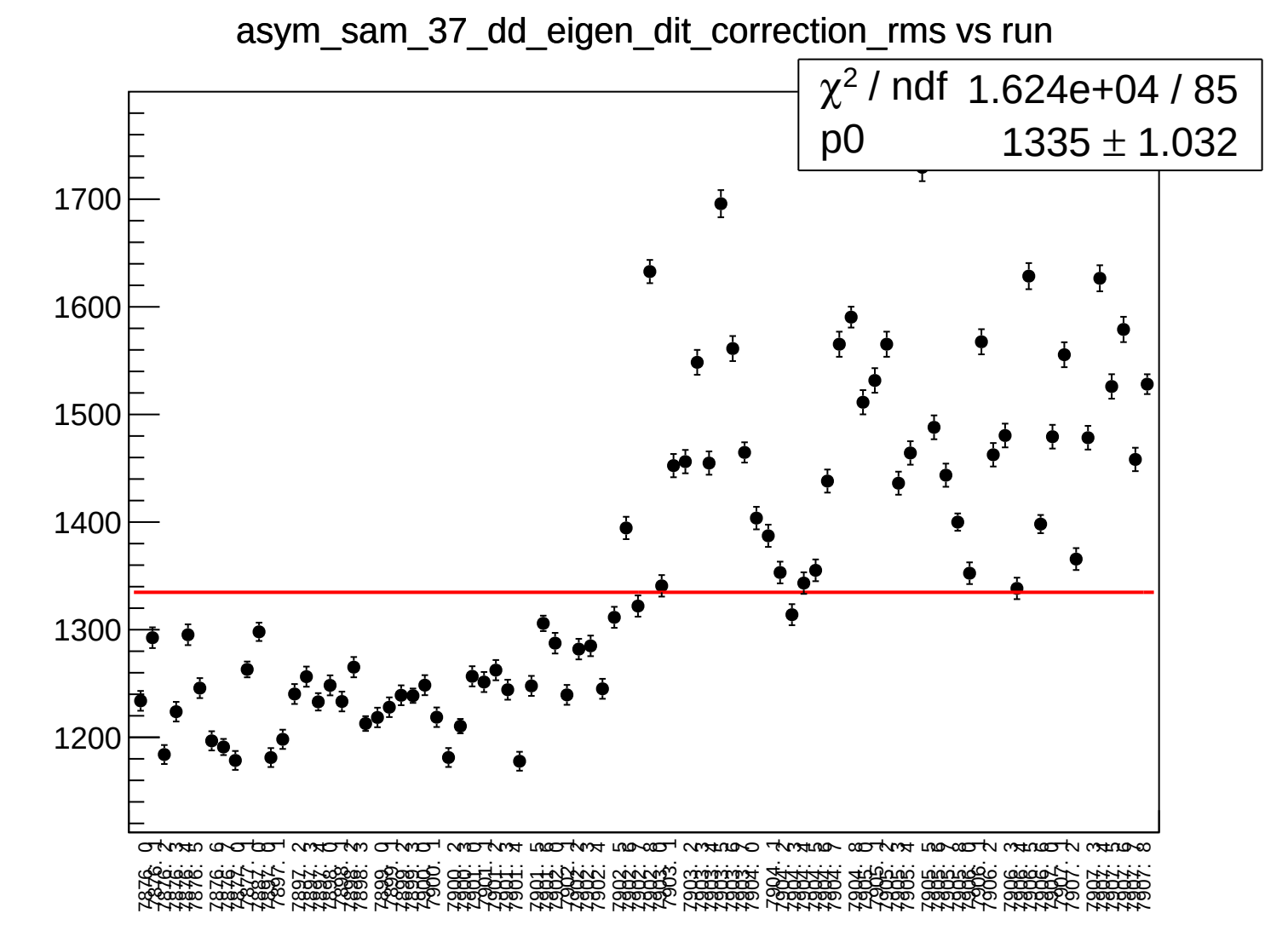

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.624e+04 / 85
p0 1335 ± 1.032
1700
1600
1500
1400
1300
1200

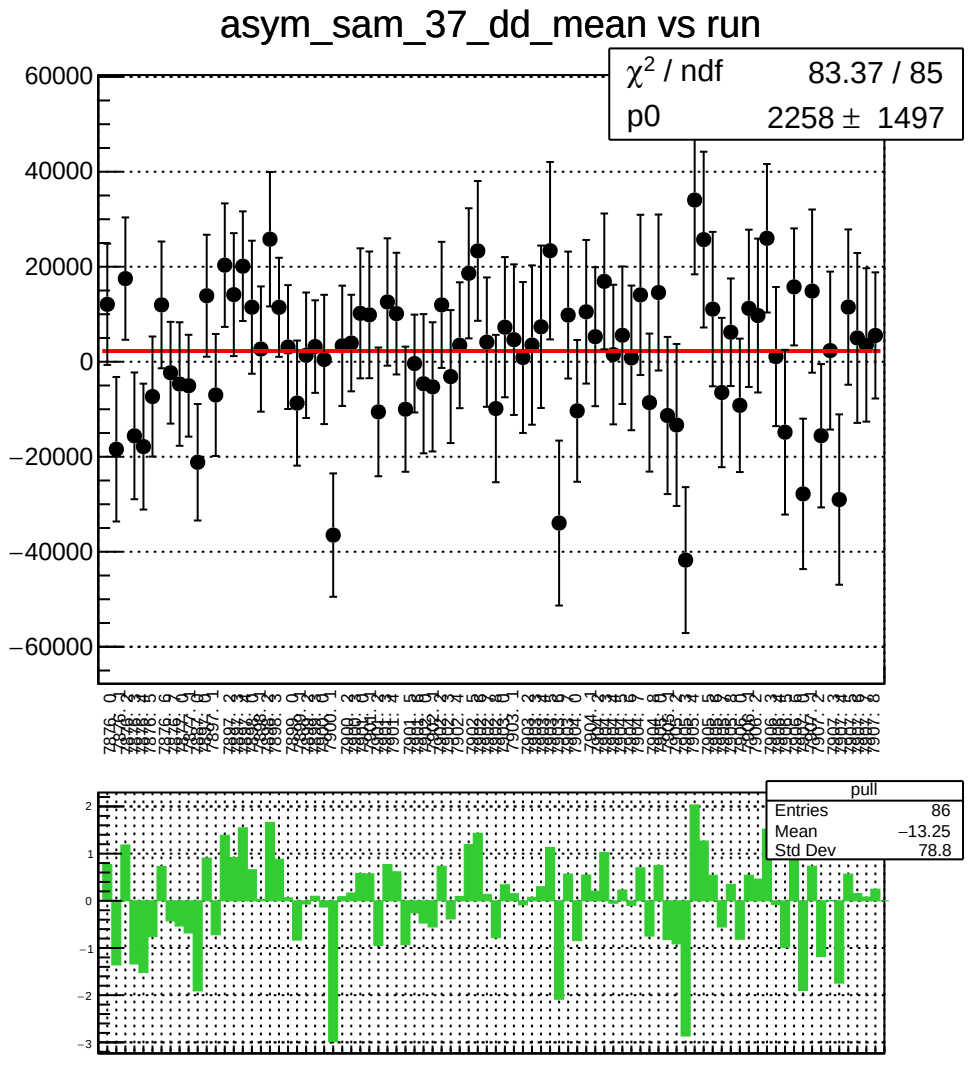

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 80.27 / 85
p0 −146.1± 214.1
pull
Entries 86
Mean −175.4
Std Dev 0
pull1D
Entries 86
Mean 0.01869
Std Dev 0.9659

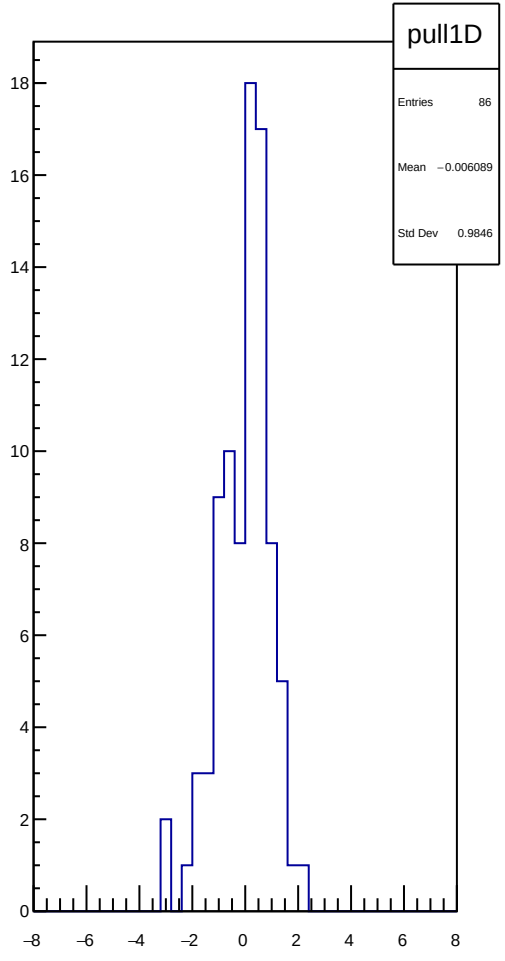

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.549e+04 / 85
p0 195.8 ± 0.1514
280
260
240
220
200
180
160
140

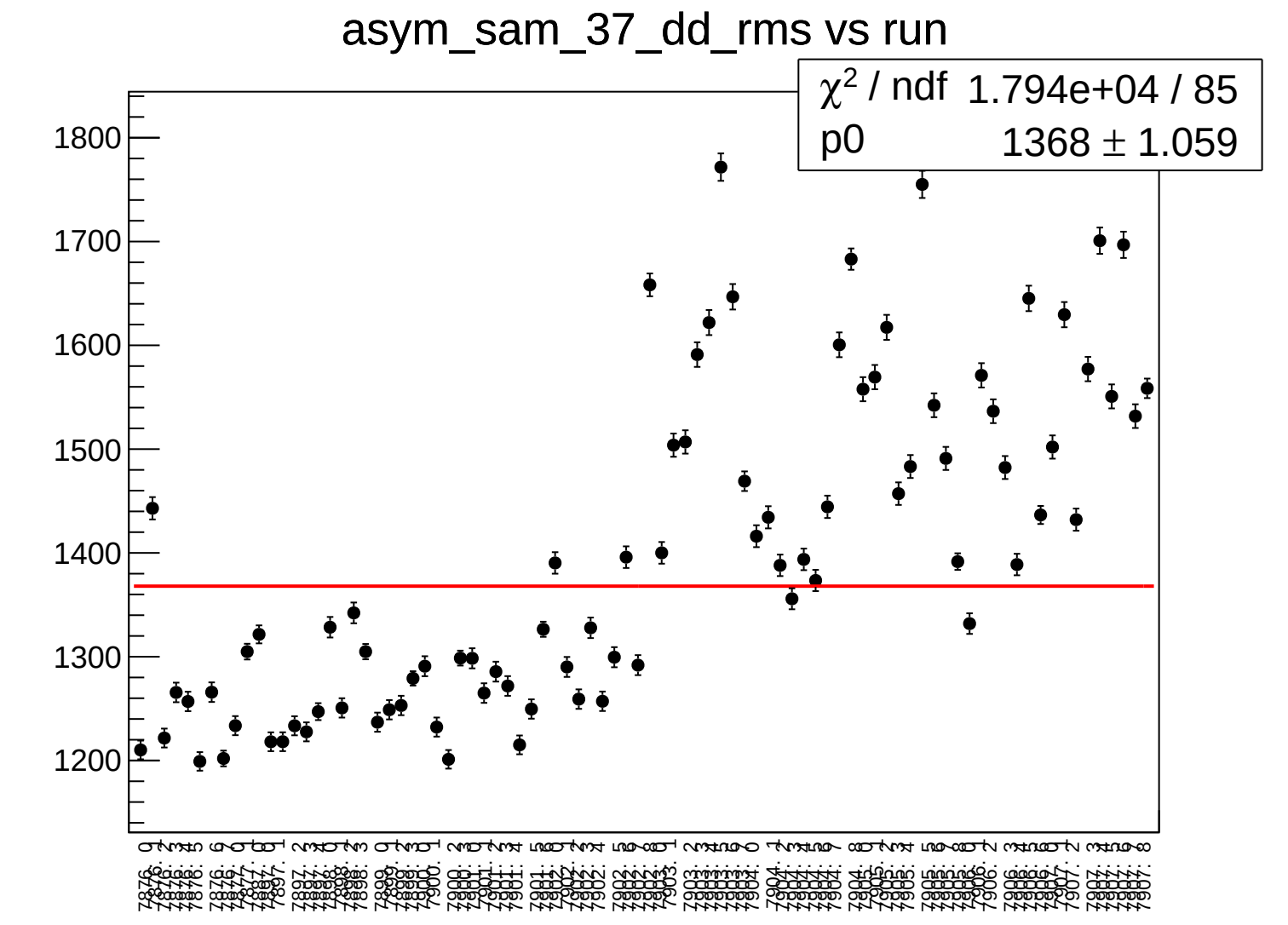

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.94 / 85
p0 −2317 ± 1460
pull
Entries 86
Mean −102.2
Std Dev 0

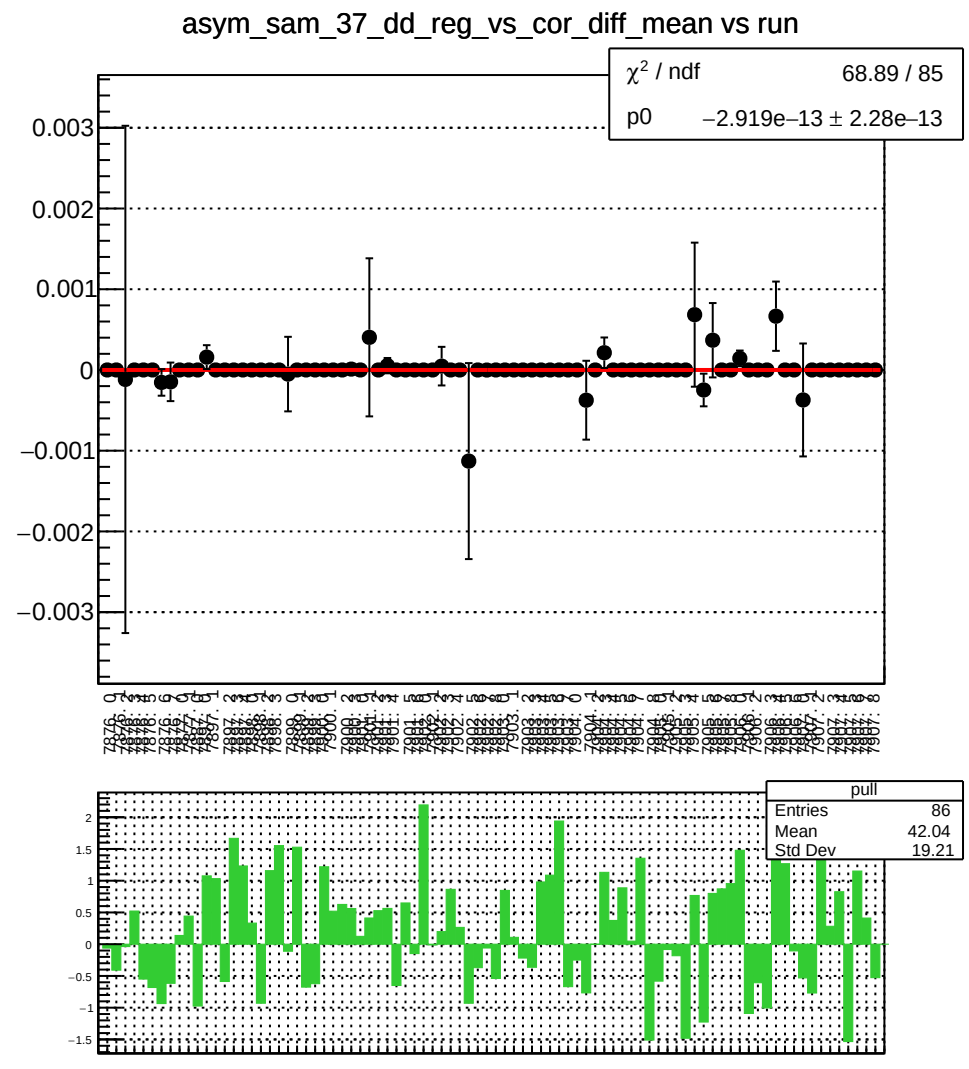

pull1D
Entries 86
Mean 0.006253
Std Dev 0.982

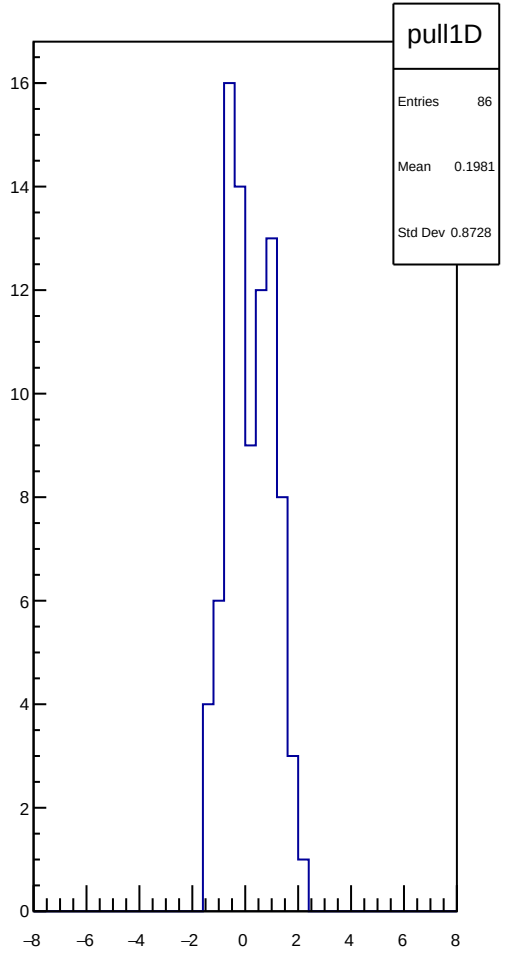

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.624e+04 / 85
p0 1335 ± 1.032
1700
1600
1500
1400
1300
1200

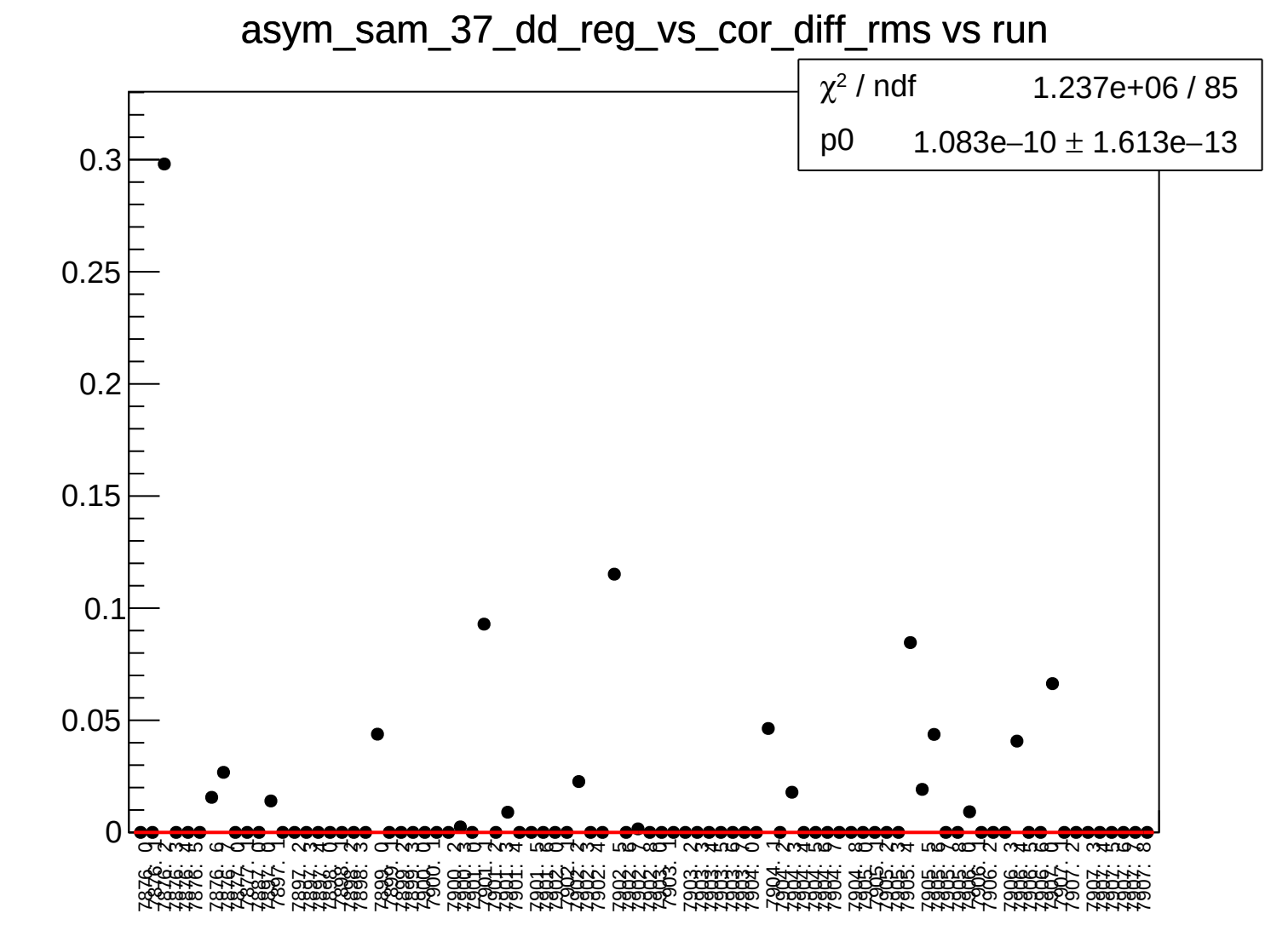

asym_sam_37_dd_mean vs run
χ² / ndf 83.37 / 85
p0 2258 ± 1497
pull
Entries 86
Mean −13.25
Std Dev 78.8

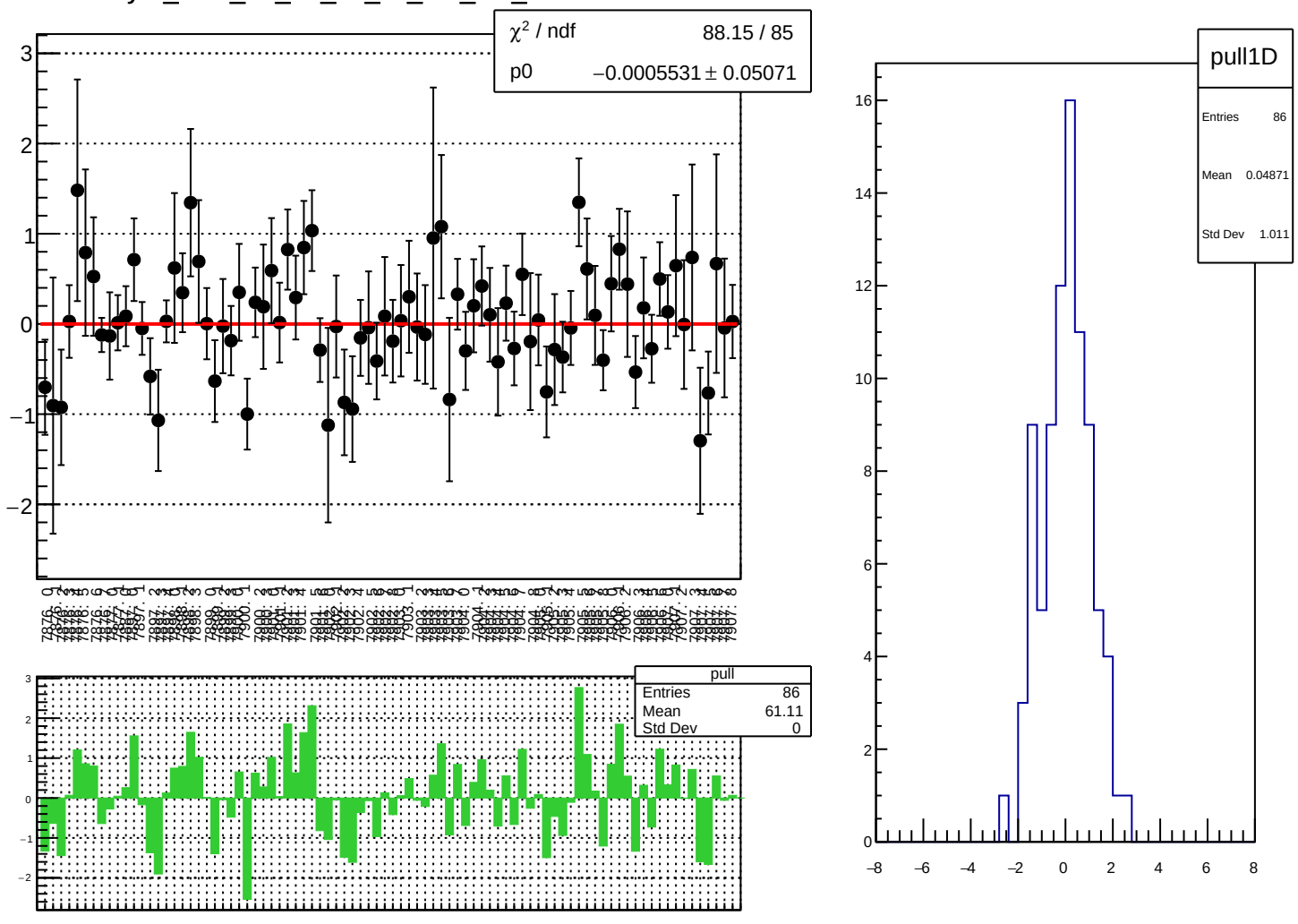

pull1D
Entries 86
Mean −0.006089
Std Dev 0.9846

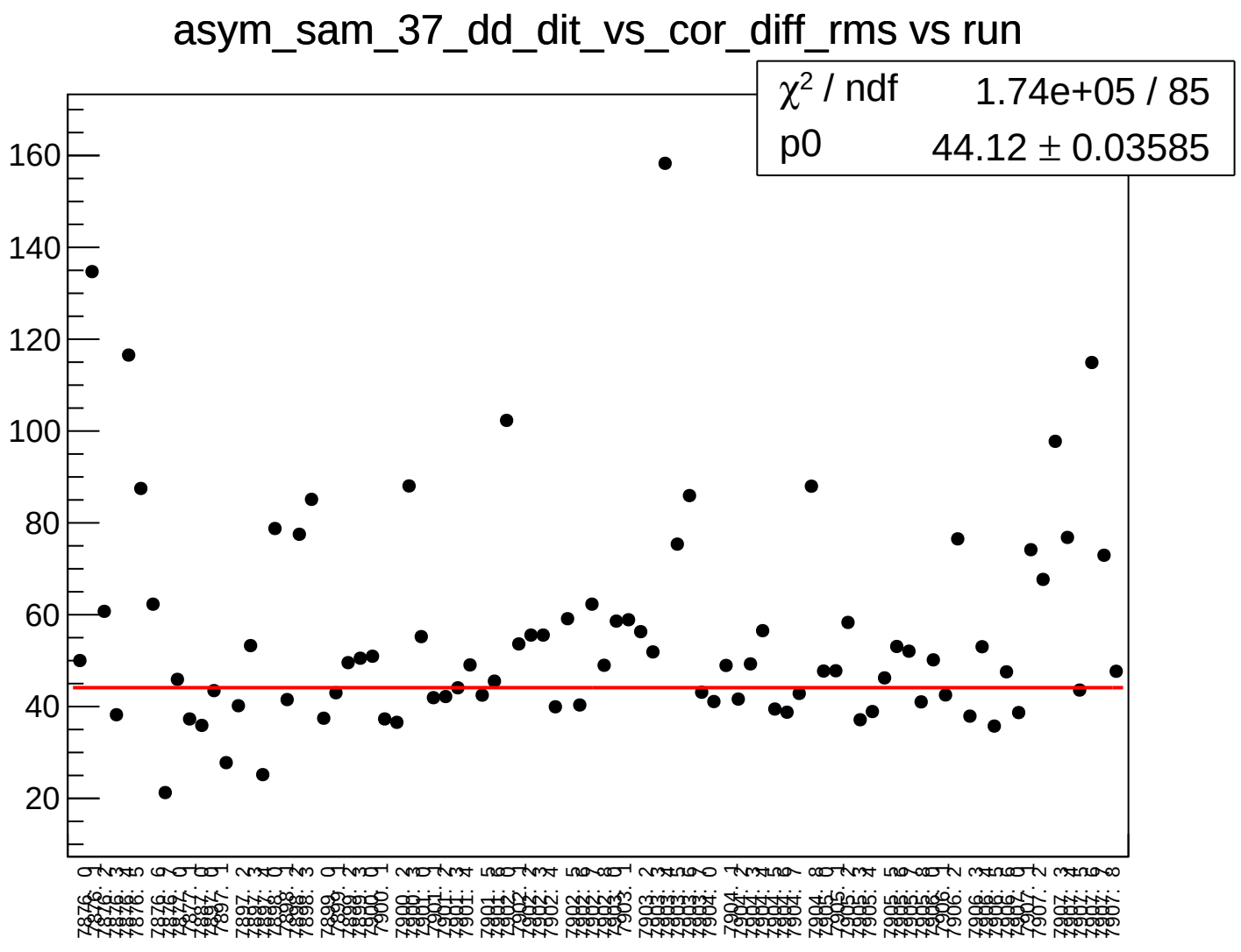

asym_sam_37_dd_rms vs run
χ^2 / ndf 1.794e+04 / 85
p0 1368 ± 1.059
1800
1700
1600
1500
1400
1300
1200

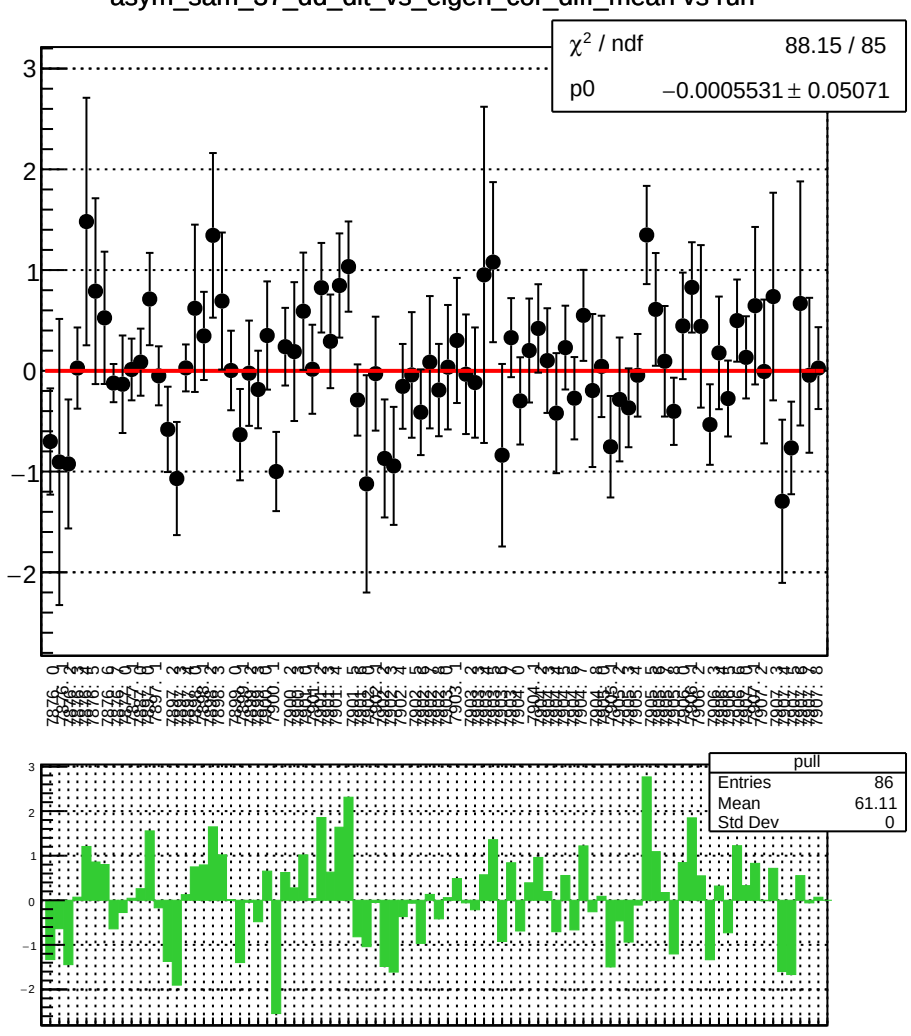

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.89 / 85
p0 −2.919e−13 ± 2.28e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 86
Mean 42.04
Std Dev 19.21
2
1.5
1
0.5
0
−0.5
−1
−1.5

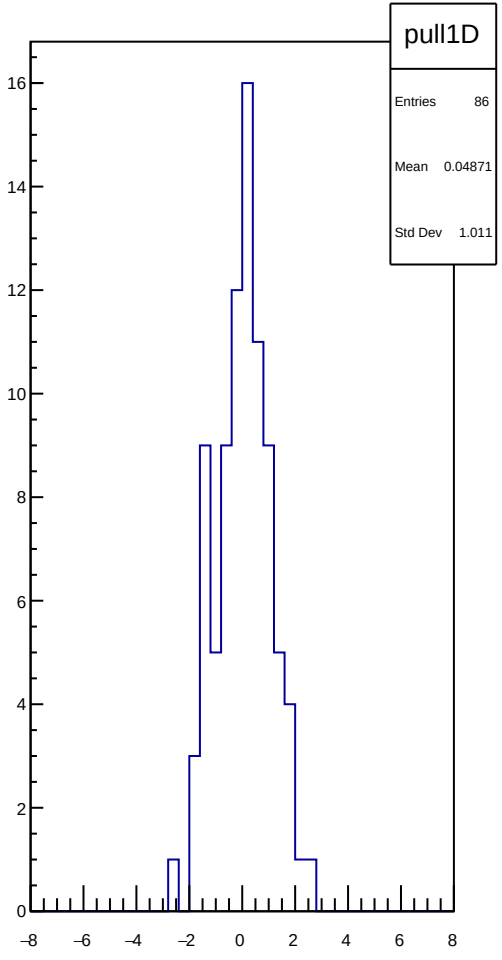

pull1D
Entries 86
Mean 0.1981
Std Dev 0.8728
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

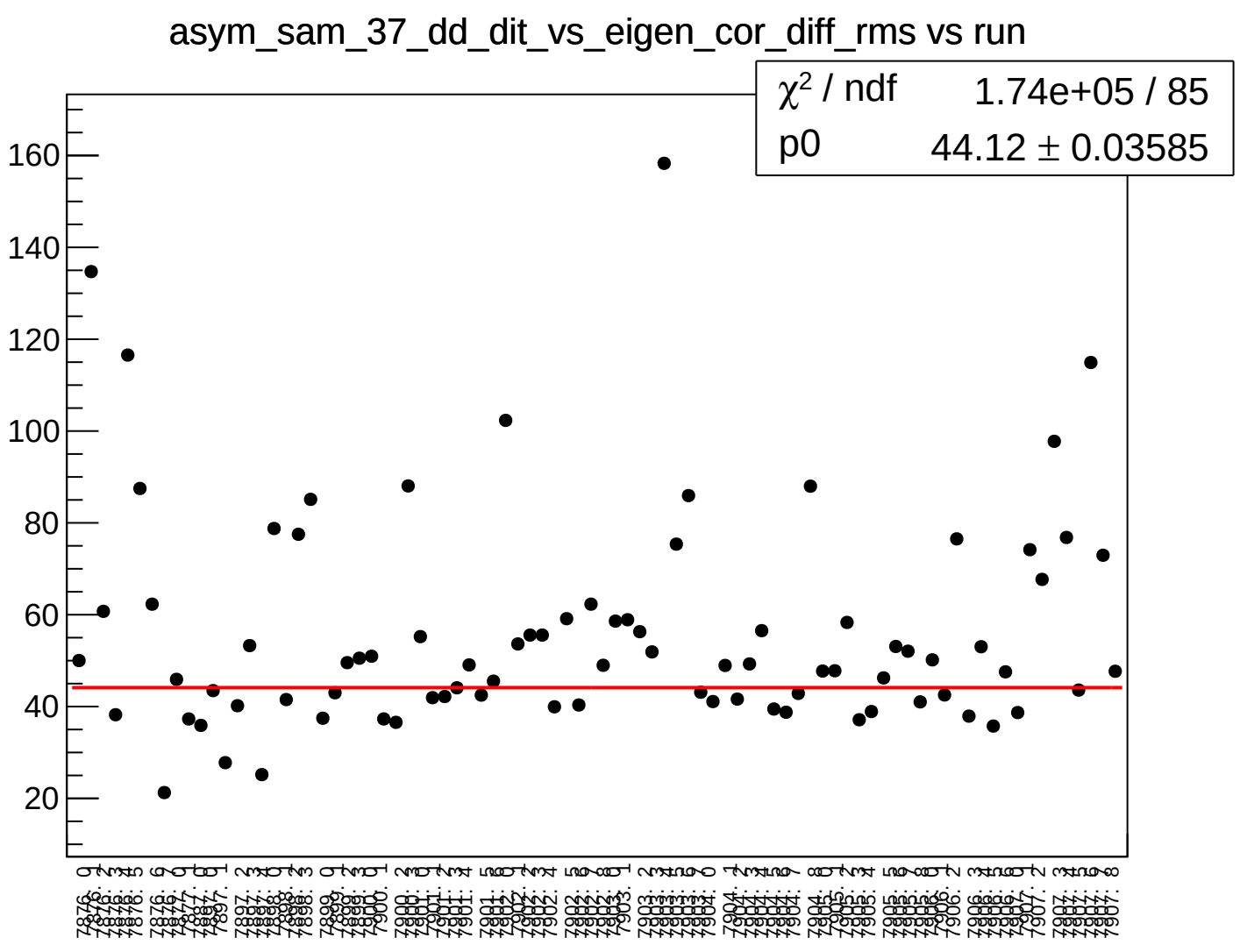

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.237e+06 / 85
p0 1.083e−10 ± 1.613e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

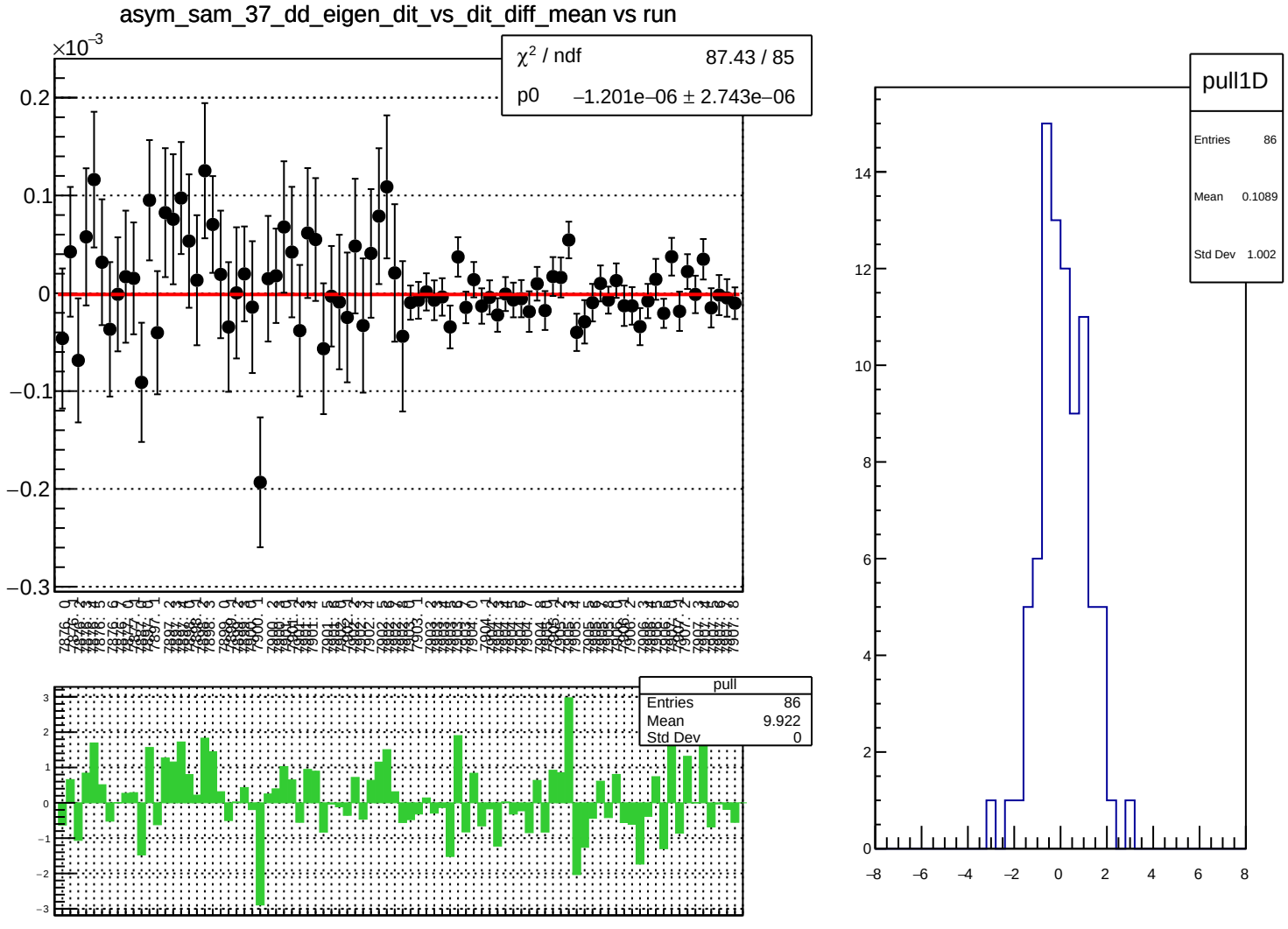

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.15 / 85
p0 −0.0005531 ± 0.05071
pull
Entries 86
Mean 61.11
Std Dev 0
pull1D
Entries 86
Mean 0.04871
Std Dev 1.011

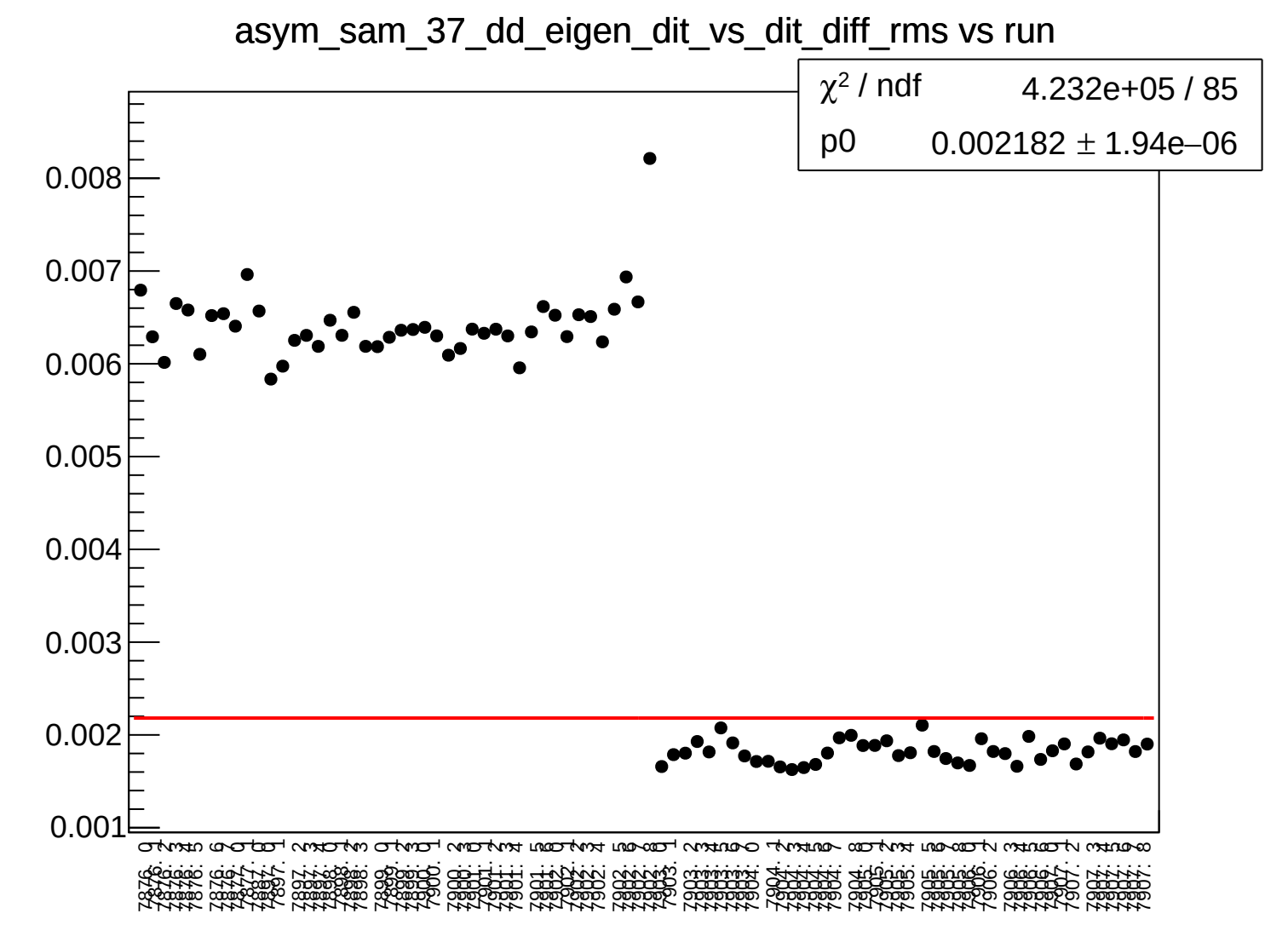

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.74e+05 / 85
p0 44.12 ± 0.03585
160
140
120
100
80
60
40
20

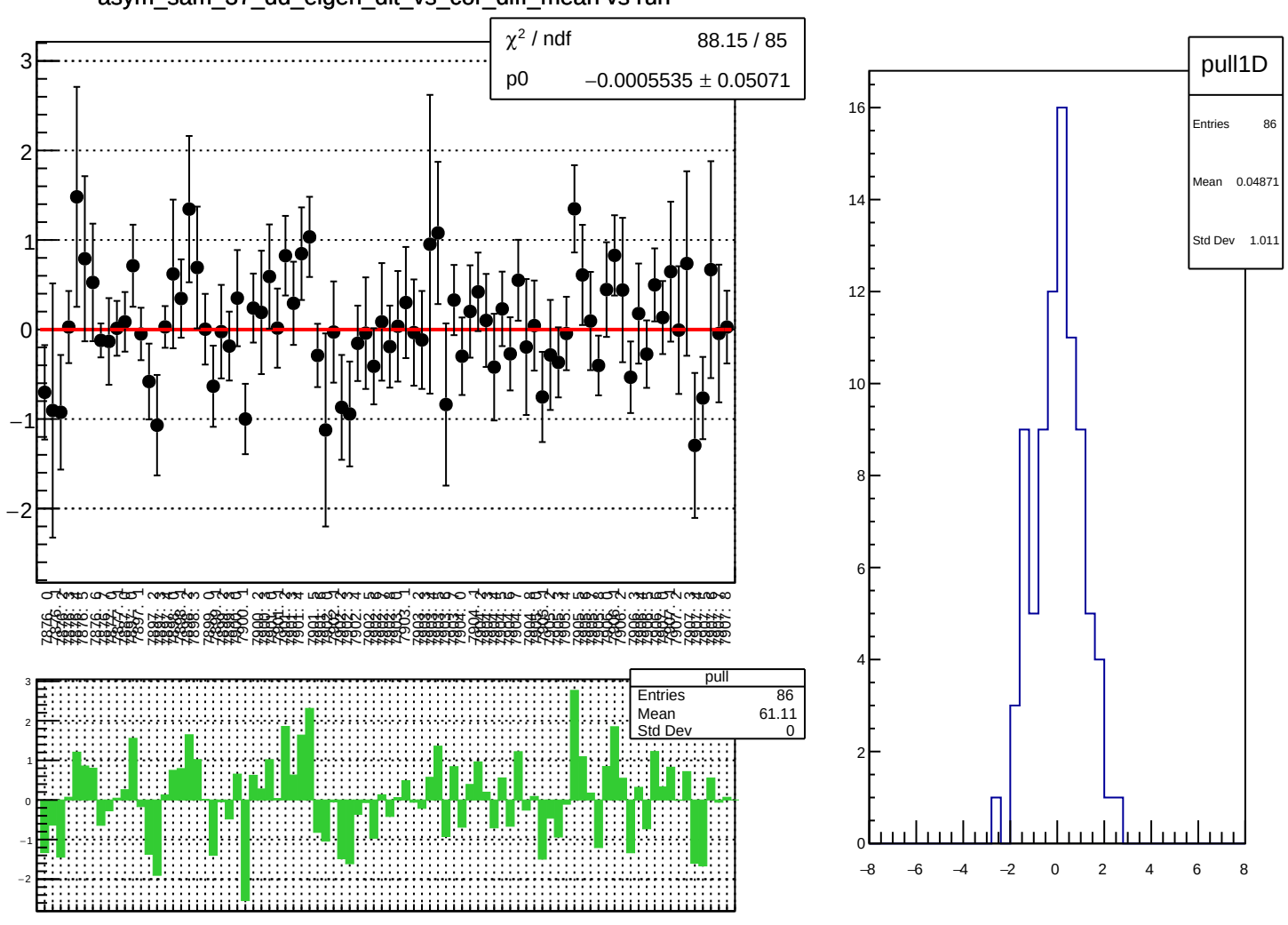

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.15 / 85
p0 −0.0005531 ± 0.05071
pull
Entries 86
Mean 61.11
Std Dev 0

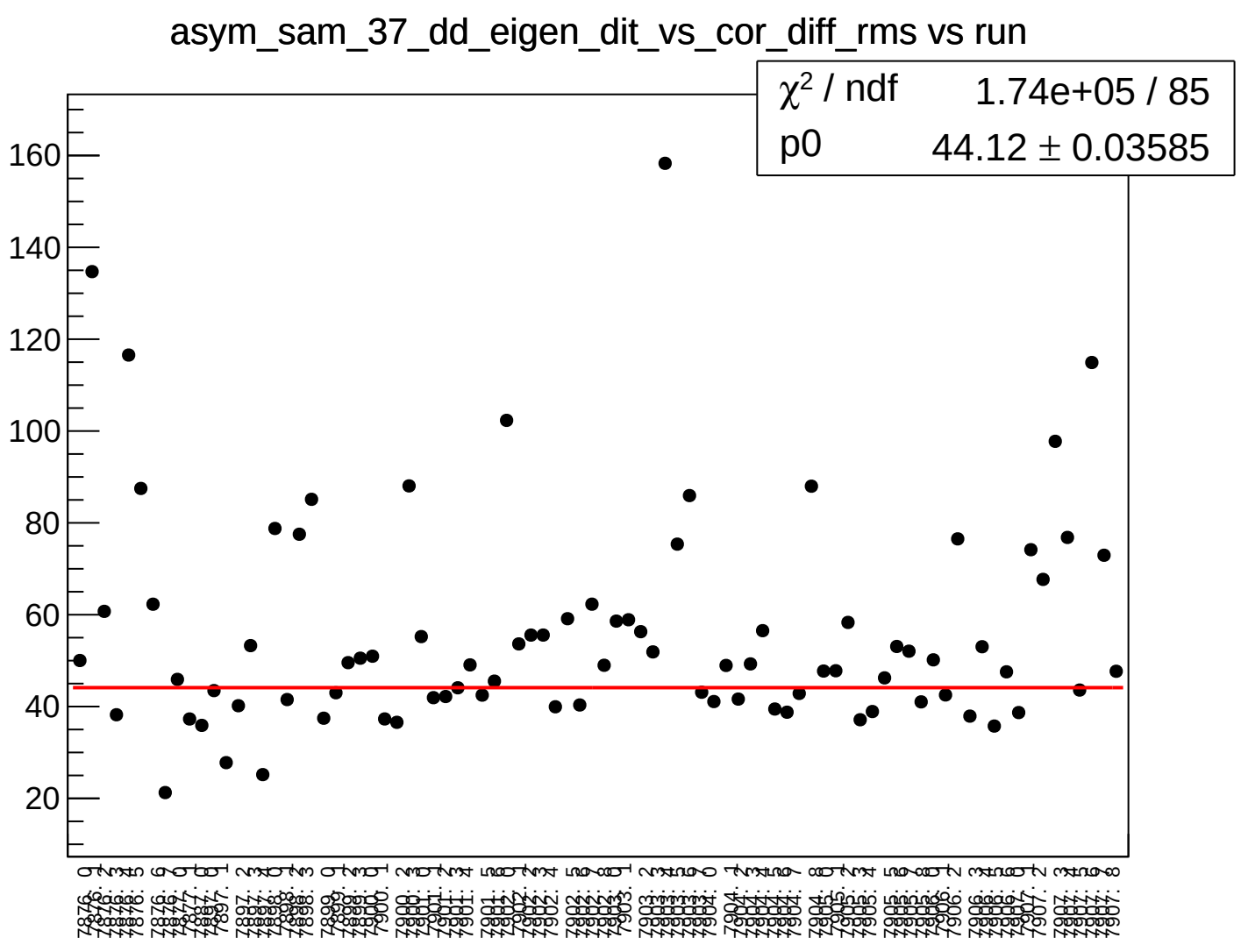

pull1D
Entries 86
Mean 0.04871
Std Dev 1.011

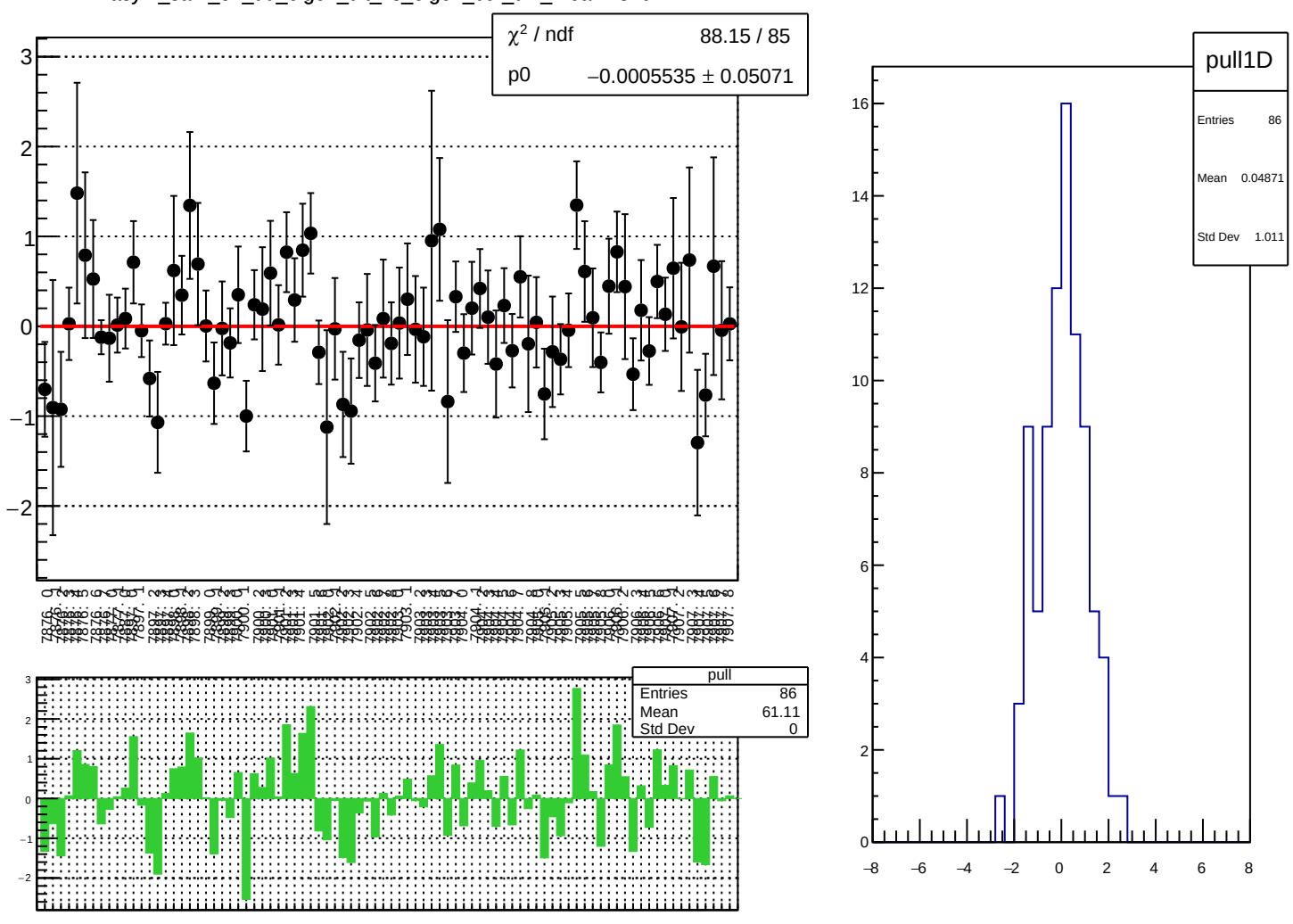

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.74e+05 / 85
p0 44.12 ± 0.03585
160
140
120
100
80
60
40
20

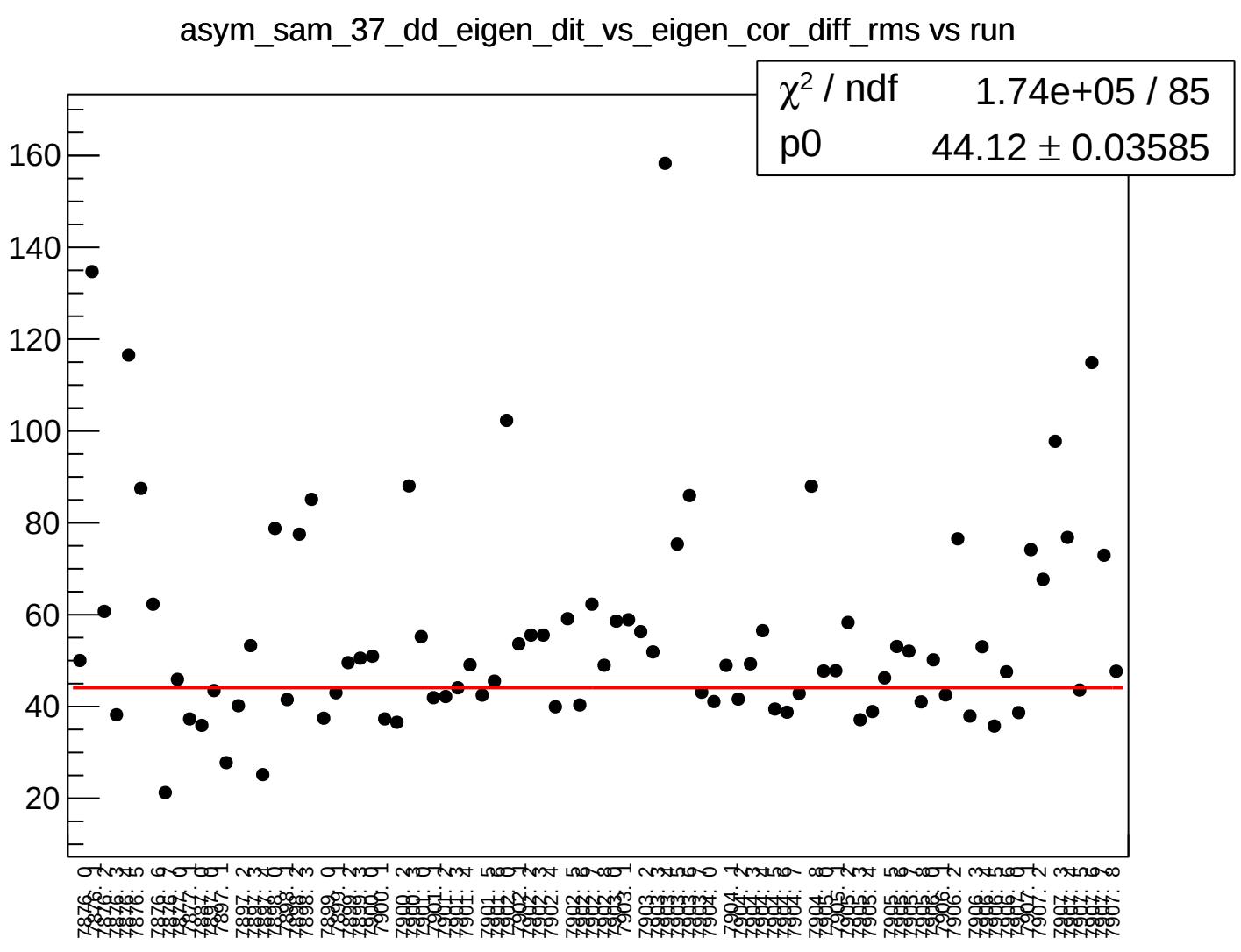

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 87.43 / 85
p0 −1.201e−06 ± 2.743e−06
pull
Entries 86
Mean 9.922
Std Dev 0
pull1D
Entries 86
Mean 0.1089
Std Dev 1.002

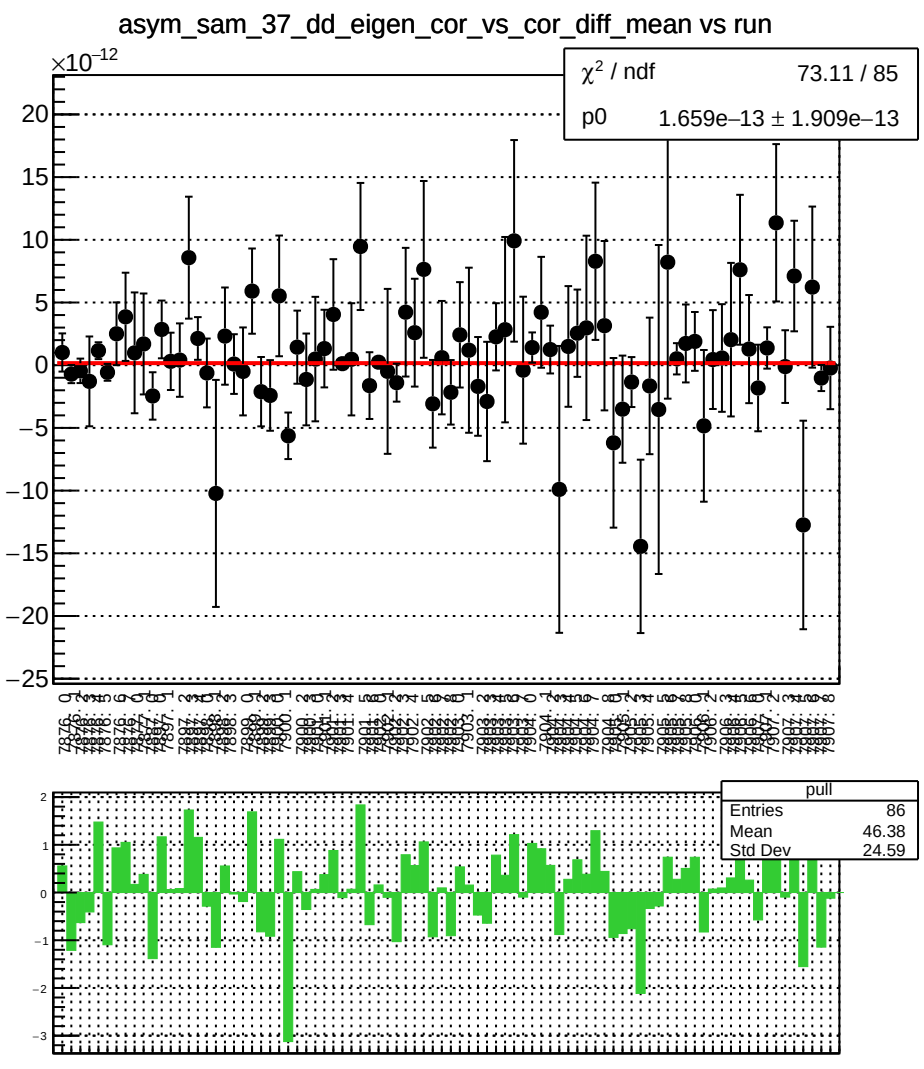

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.232e+05 / 85
p0 0.002182 ± 1.94e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

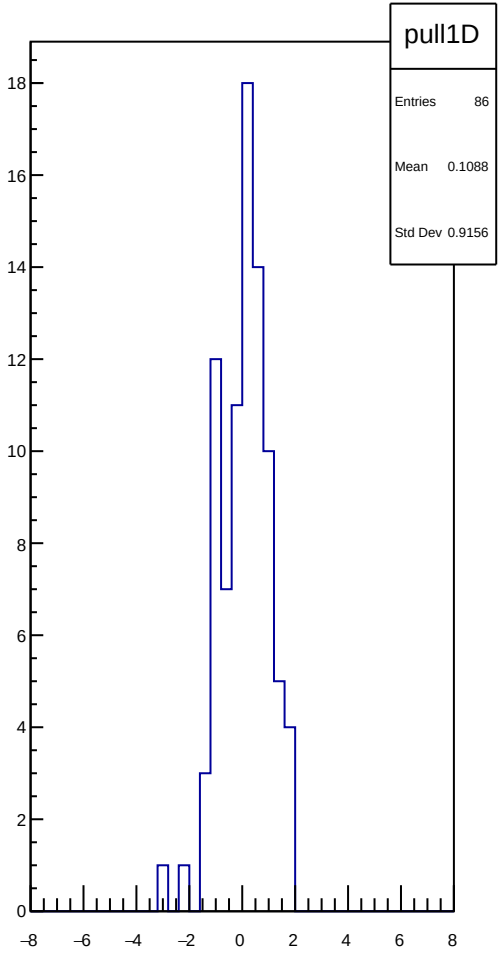

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.15 / 85
p0 −0.0005535 ± 0.05071
pull
Entries 86
Mean 61.11
Std Dev 0
pull1D
Entries 86
Mean 0.04871
Std Dev 1.011

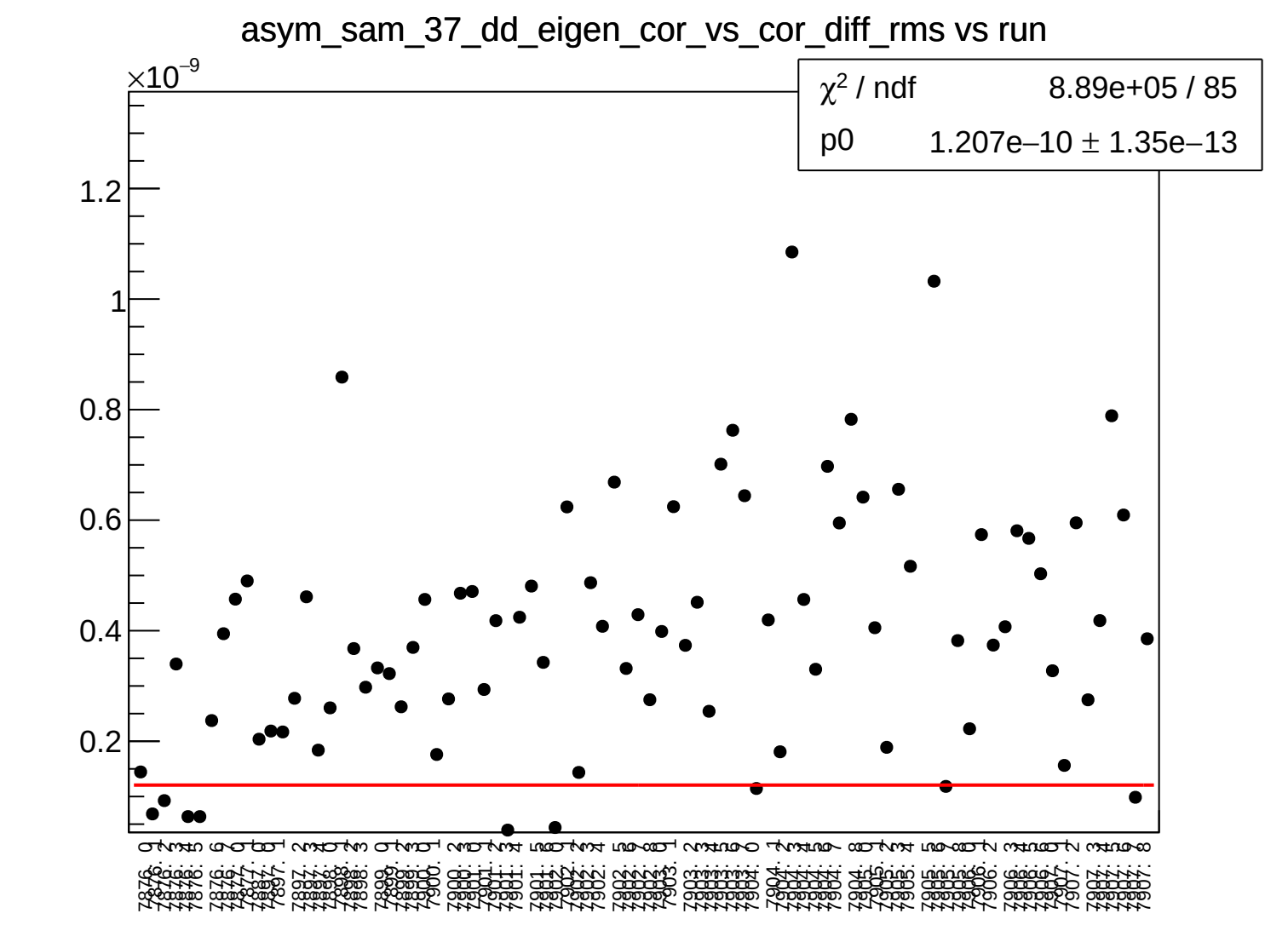

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.74e+05 / 85
p0 44.12 ± 0.03585
160
140
120
100
80
60
40
20

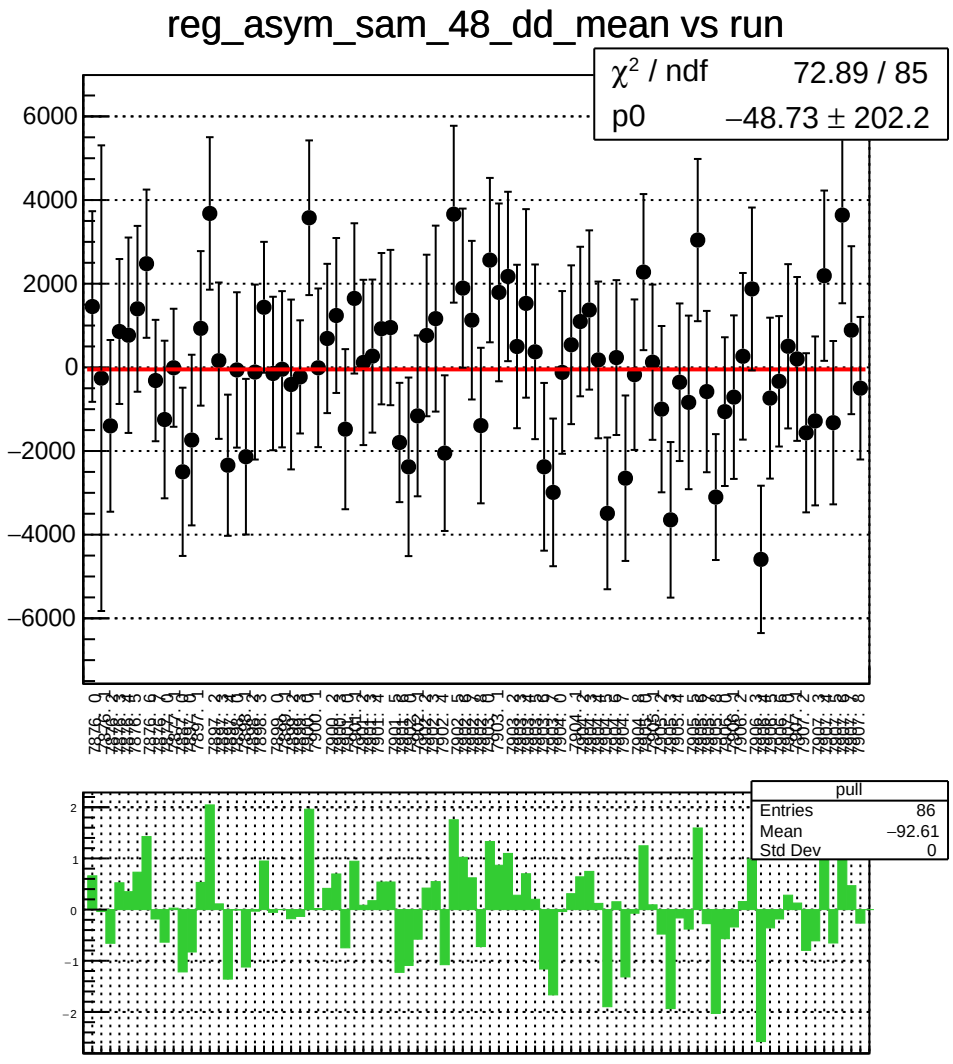

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.15 / 85
p0 −0.0005535 ± 0.05071
pull
Entries 86
Mean 61.11
Std Dev 0
pull1D
Entries 86
Mean 0.04871
Std Dev 1.011

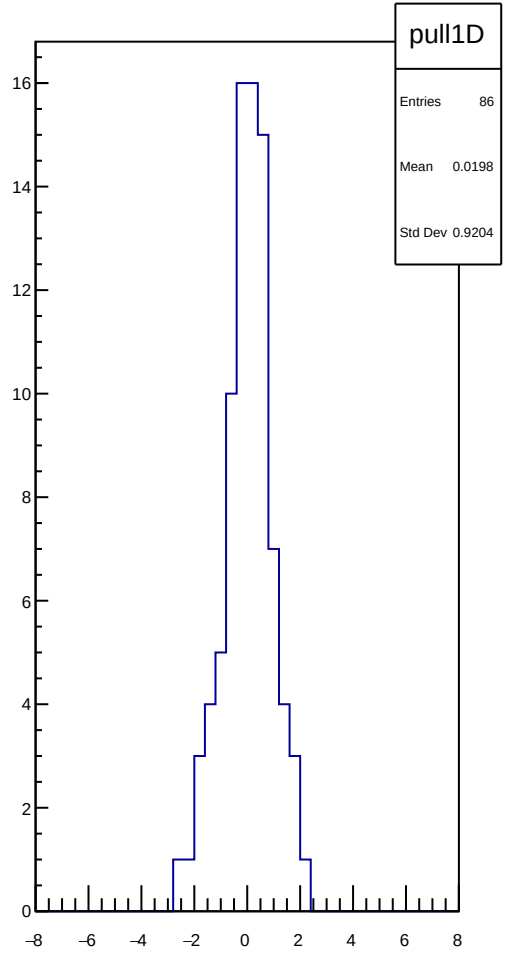

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.74e+05 / 85
p0 44.12 ± 0.03585
160
140
120
100
80
60
40
20

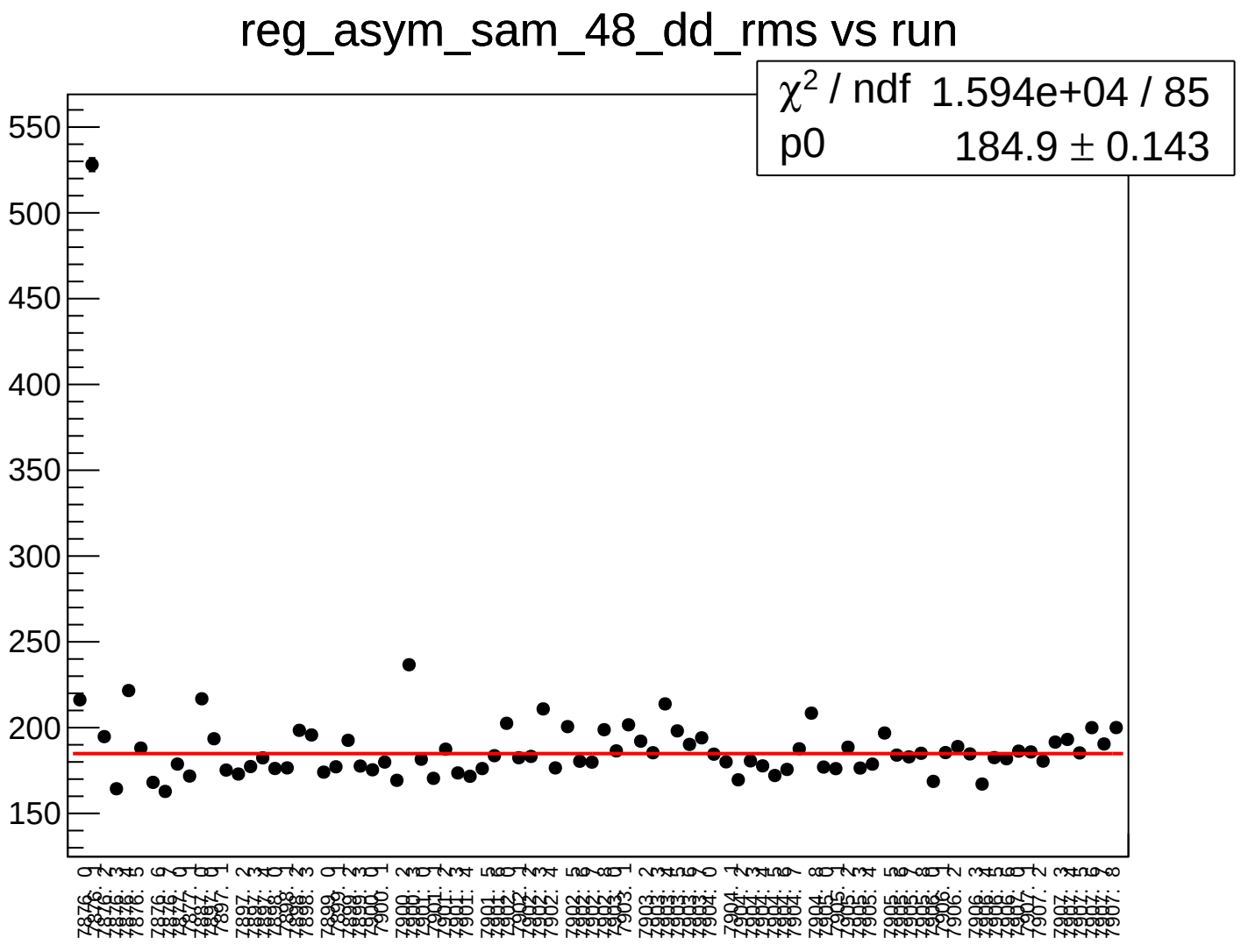

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.11 / 85
p0 1.659e−13 ± 1.909e−13
pull
Entries 86
Mean 46.38
Std Dev 24.59

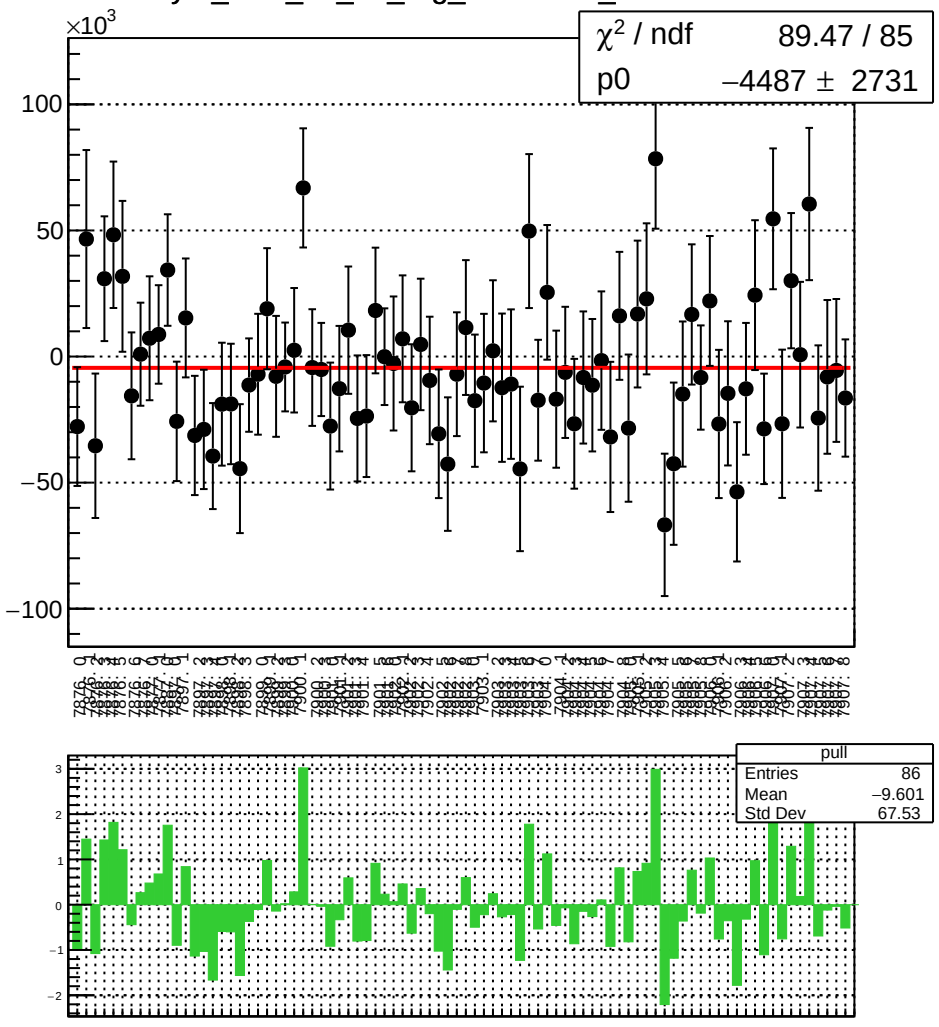

pull1D
Entries 86
Mean 0.1088
Std Dev 0.9156

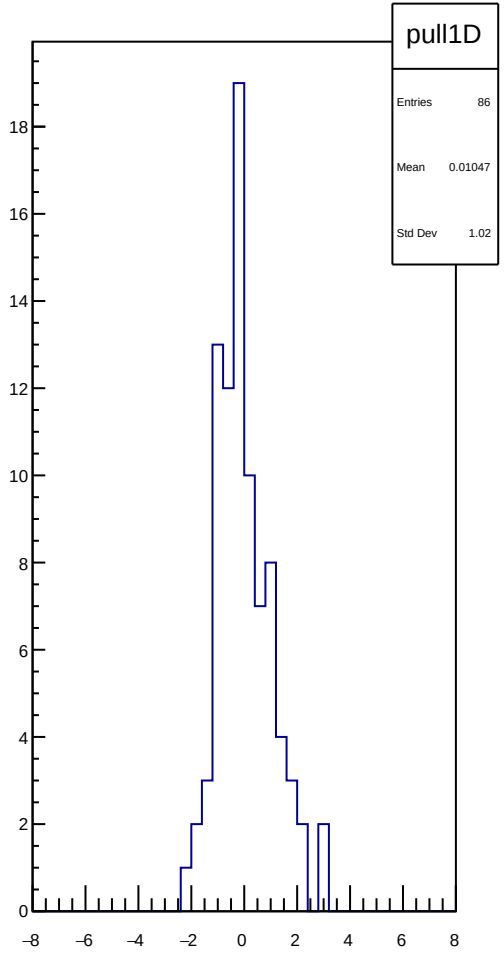

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.89e+05 / 85
p0 1.207e−10 ± 1.35e−13
1.2
1
0.8
0.6
0.4
0.2

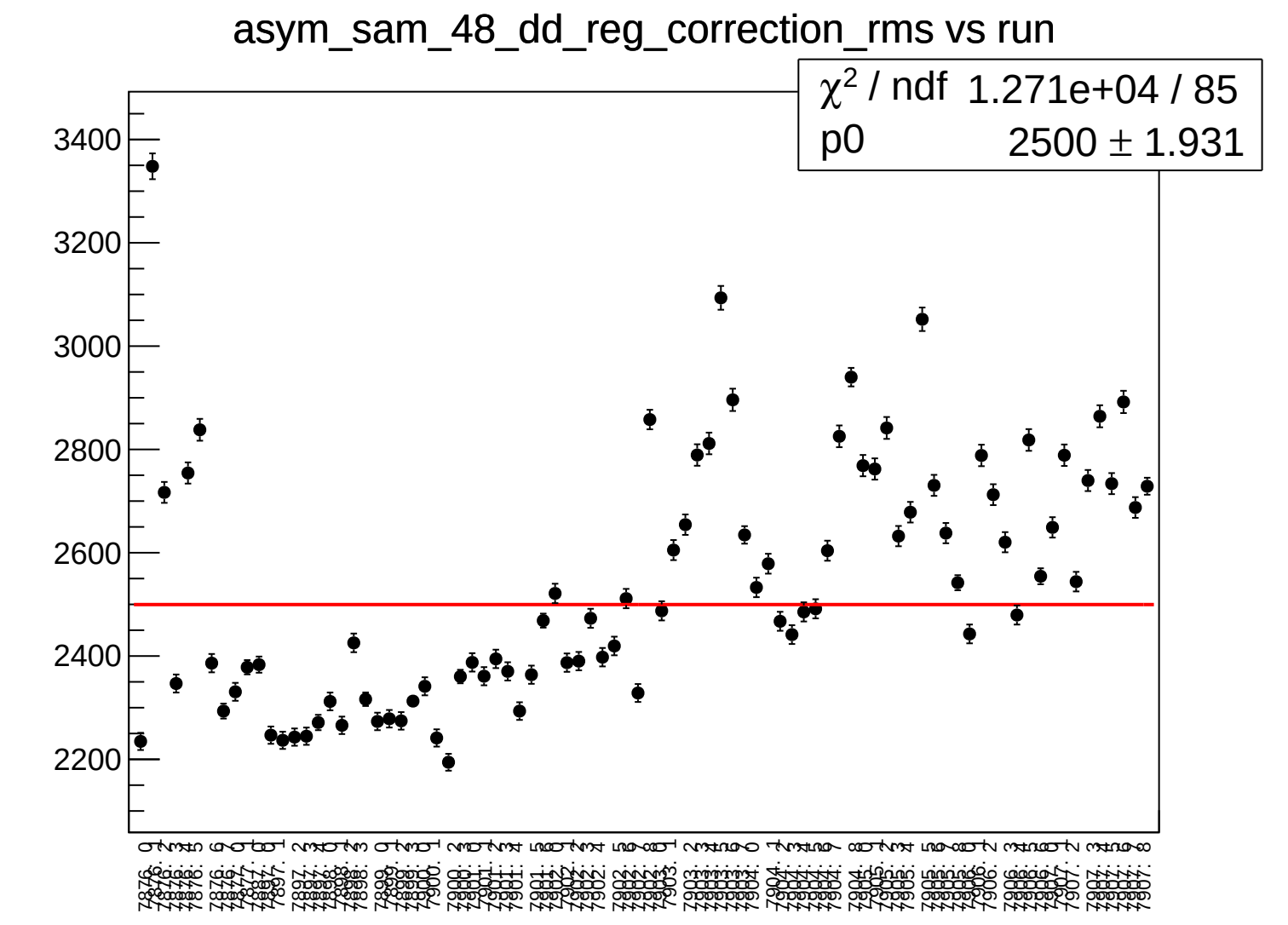

reg_asym_sam_48_dd_mean vs run
χ² / ndf 72.89 / 85
p0 −48.73 ± 202.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −92.61
Std Dev 0
2
1
0
−1
−2

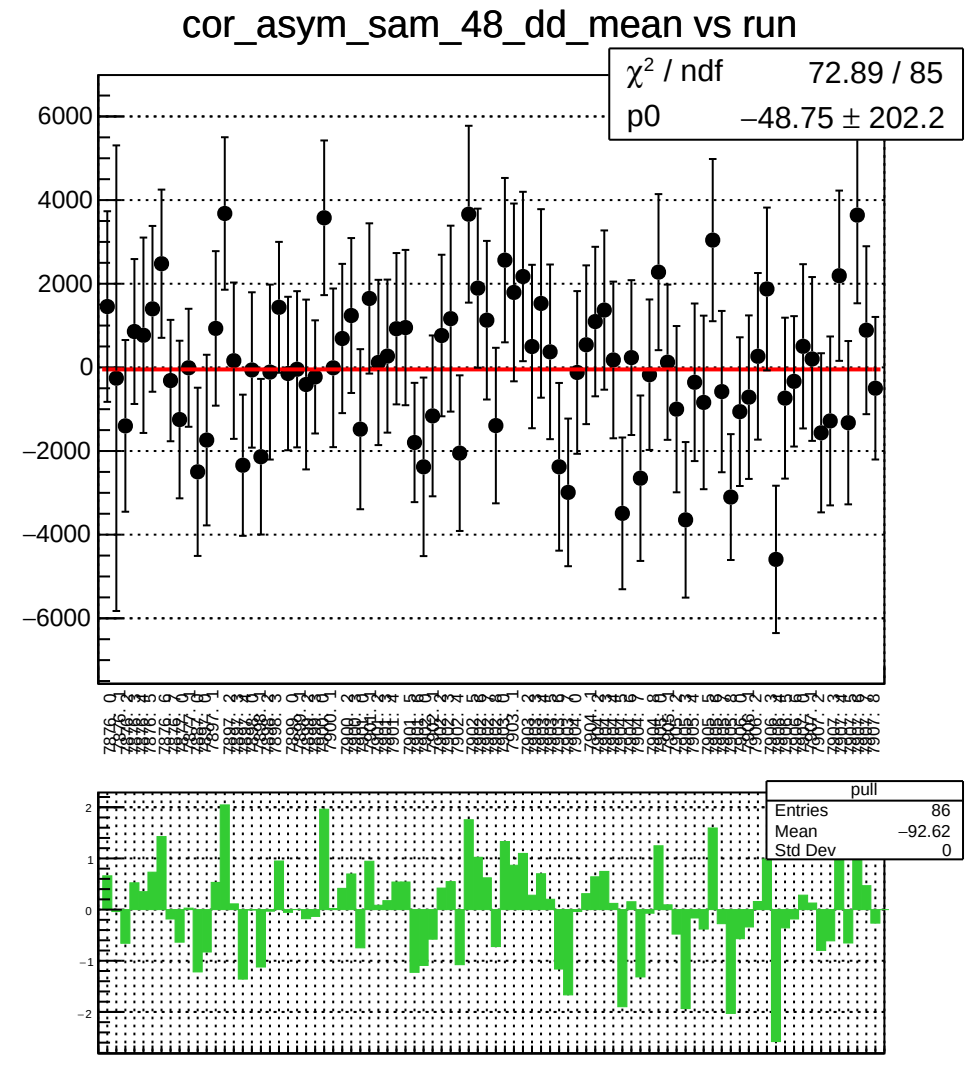

pull1D
Entries 86
Mean 0.0198
Std Dev 0.9204
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

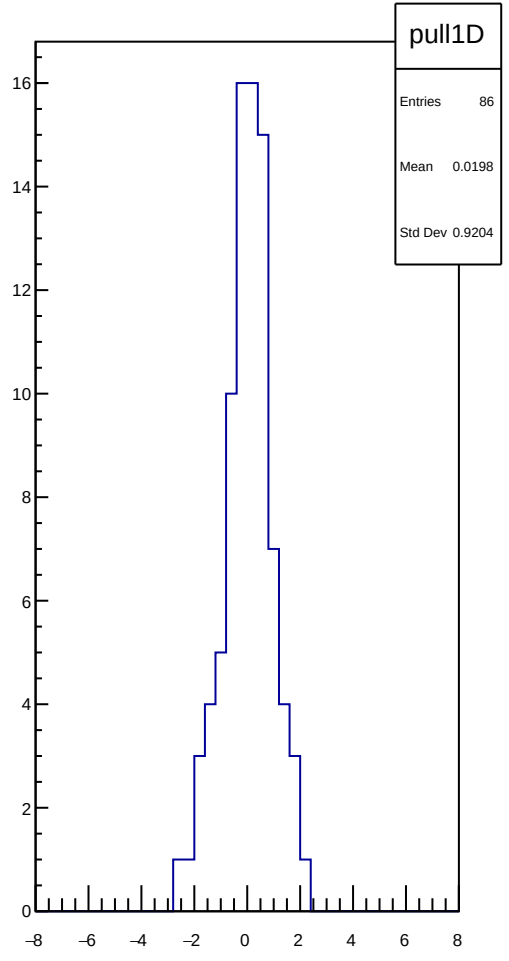

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 1.594e+04 / 85
p0 184.9 ± 0.143
550
500
450
400
350
300
250
200
150

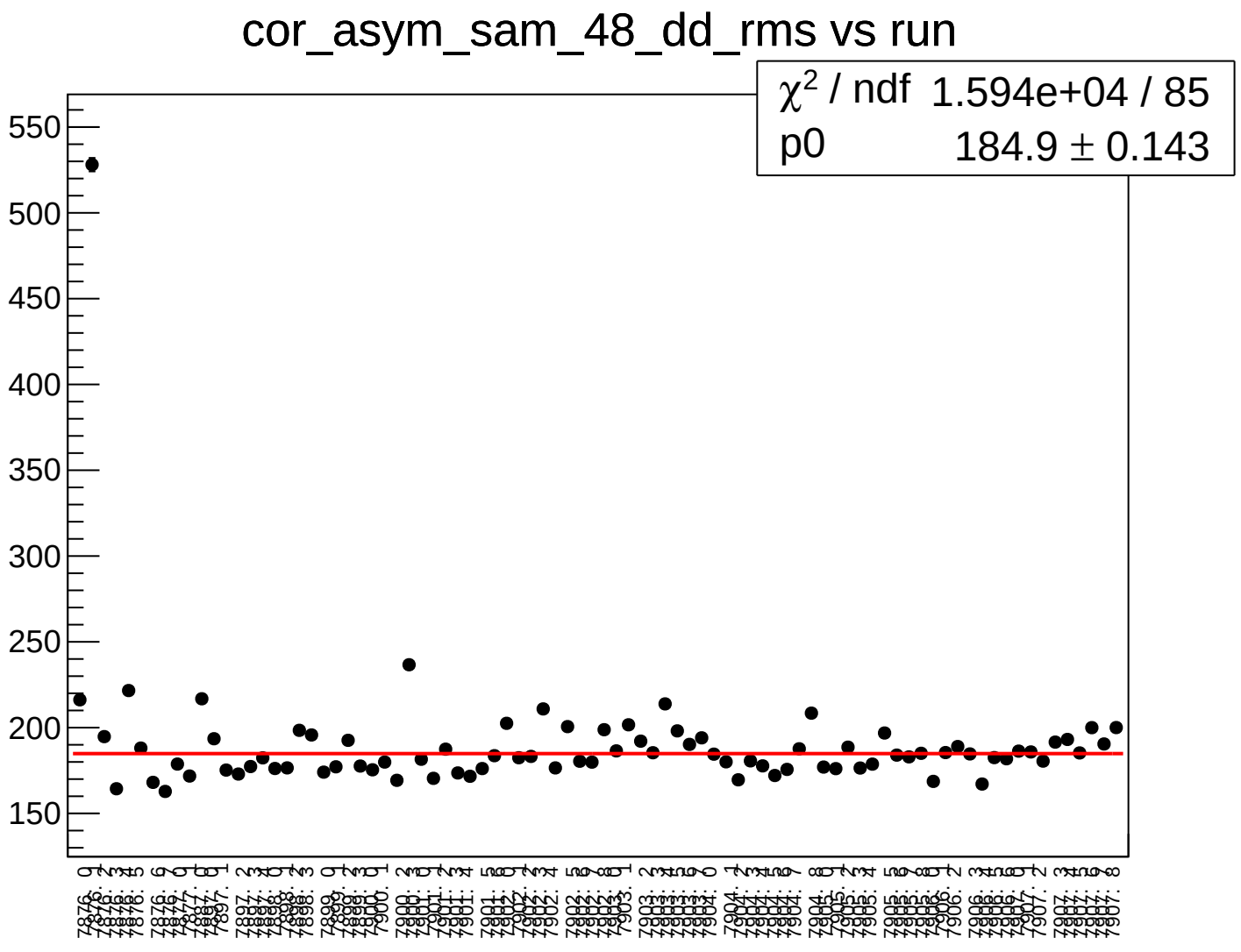

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.47 / 85
p0 −4487 ± 2731
100
50
0
−50
−100
pull
Entries 86
Mean −9.601
Std Dev 67.53
3
2
1
0
−1
−2

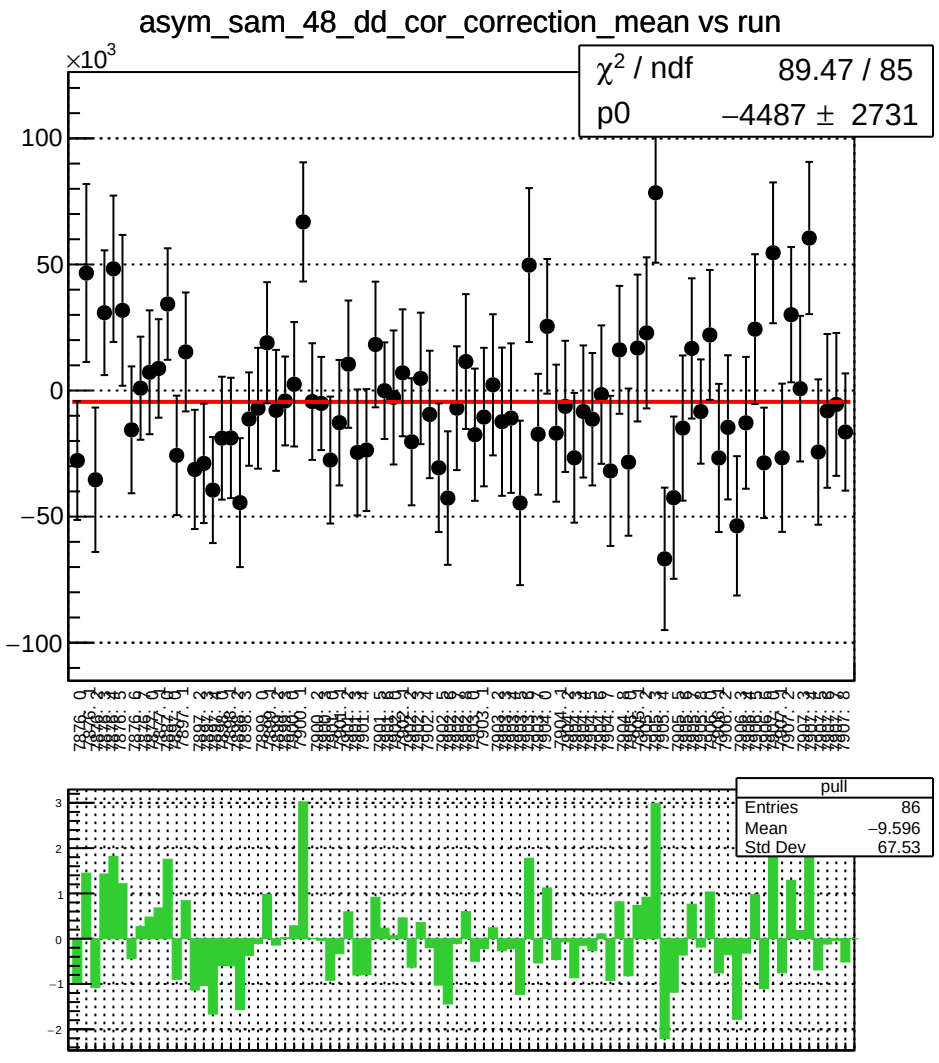

pull1D
Entries 86
Mean 0.01047
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

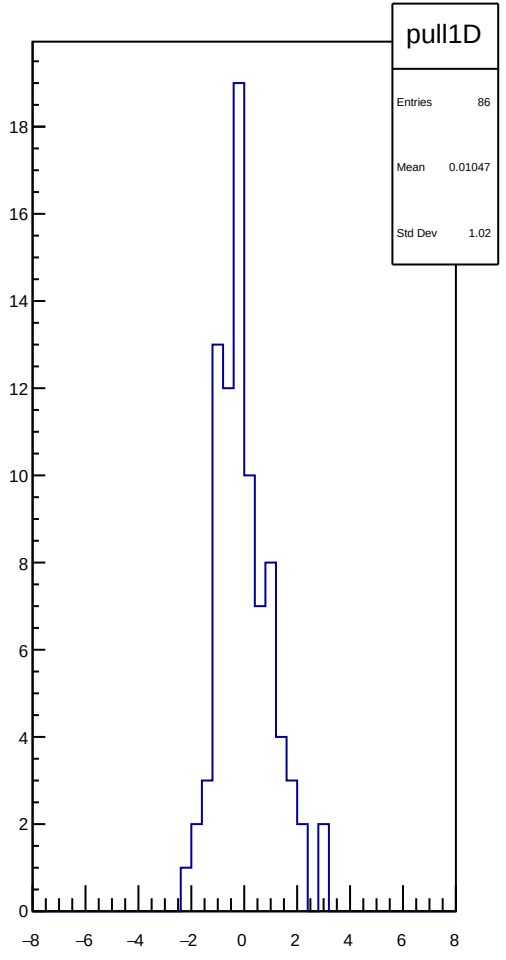

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.271e+04 / 85
p0 2500 ± 1.931
3400
3200
3000
2800
2600
2400
2200

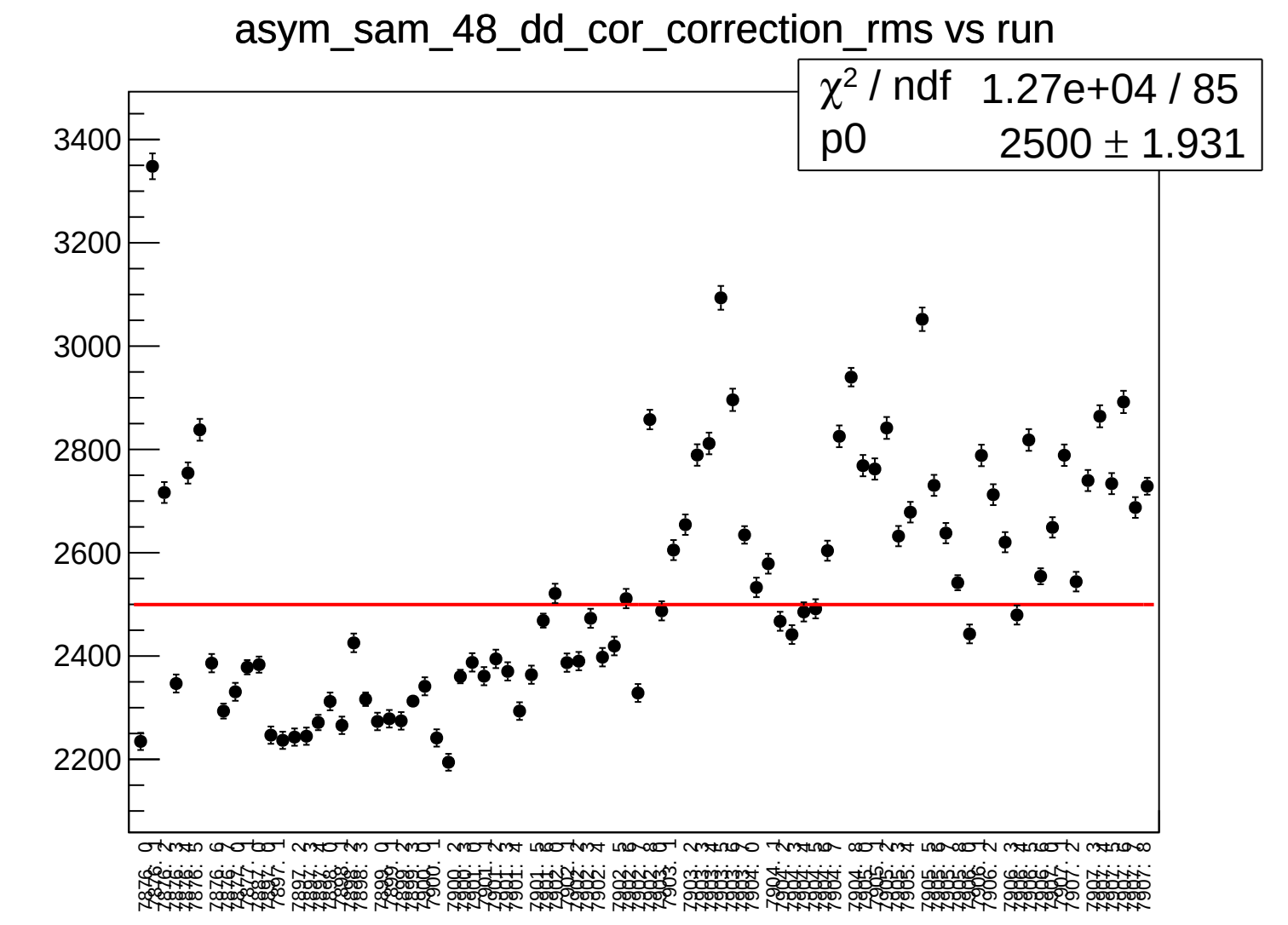

cor_asym_sam_48_dd_mean vs run
χ² / ndf 72.89 / 85
p0 −48.75 ± 202.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −92.62
Std Dev 0
2
1
0
−1
−2

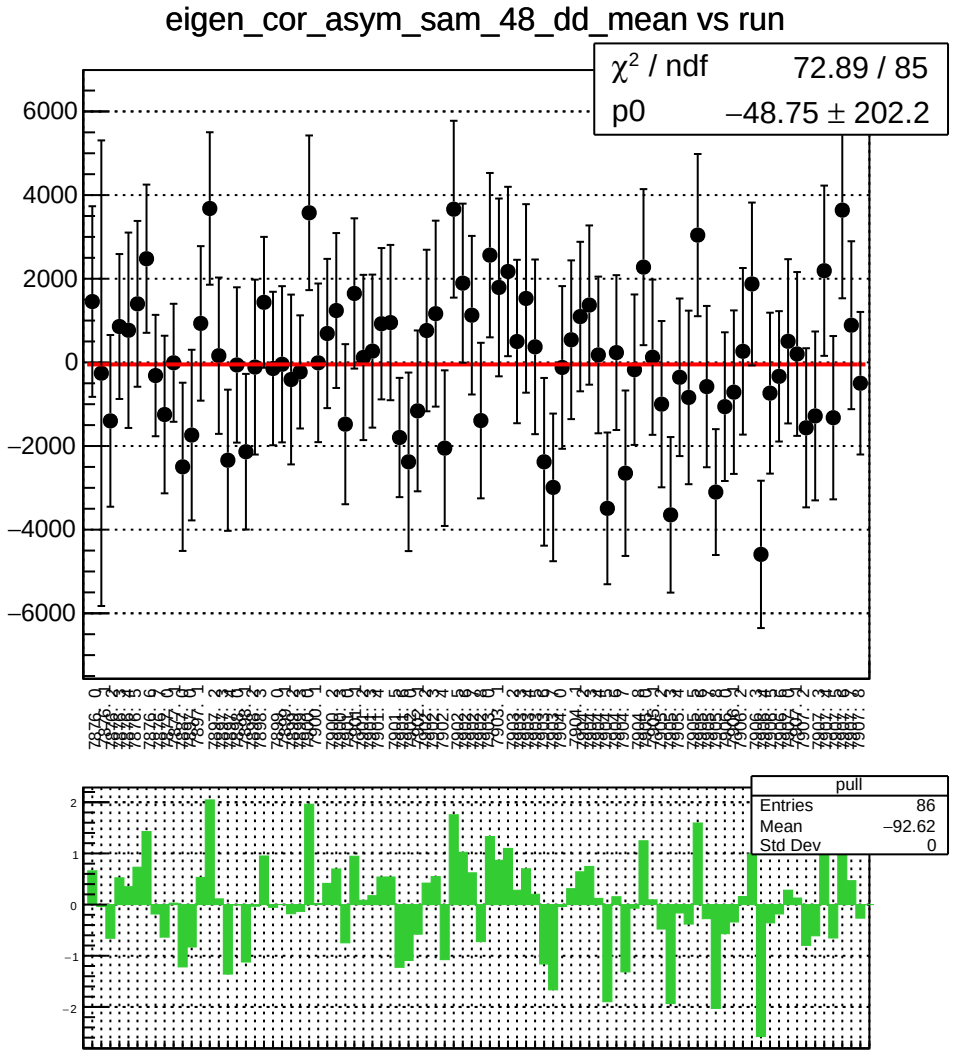

pull1D
Entries 86
Mean 0.0198
Std Dev 0.9204
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

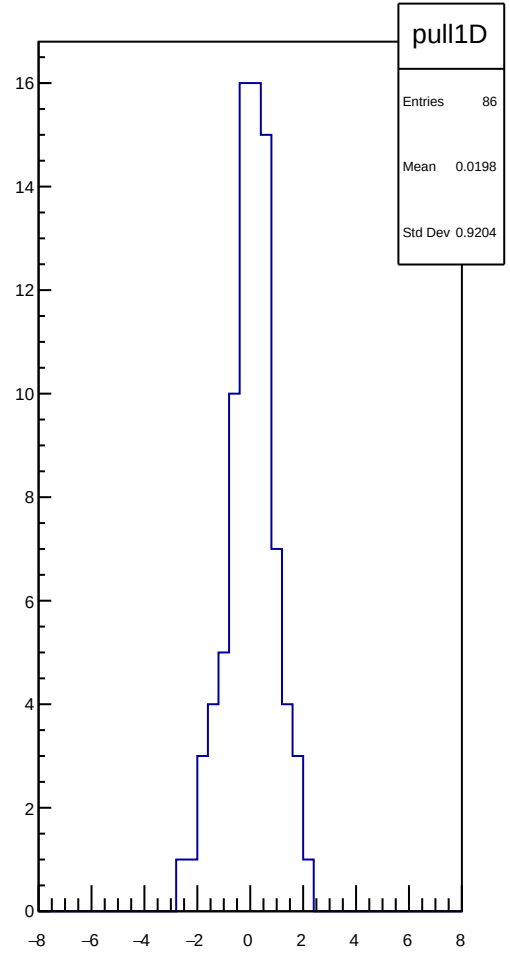

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.594e+04 / 85
p0 184.9 ± 0.143
550
500
450
400
350
300
250
200
150

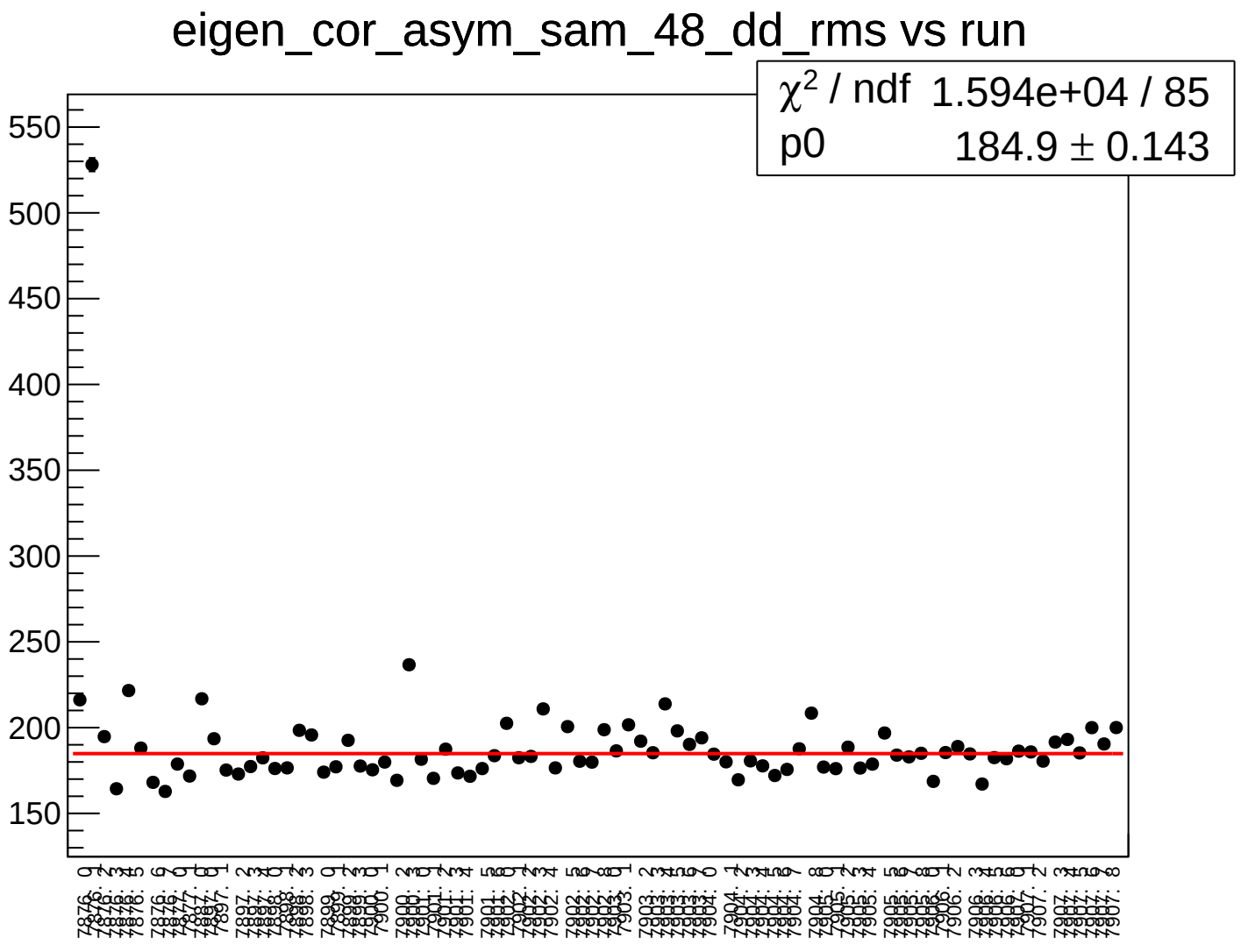

asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.47 / 85
p0 −4487 ± 2731
100
50
0
−50
−100
pull
Entries 86
Mean −9.596
Std Dev 67.53
3
2
1
0
−1
−2

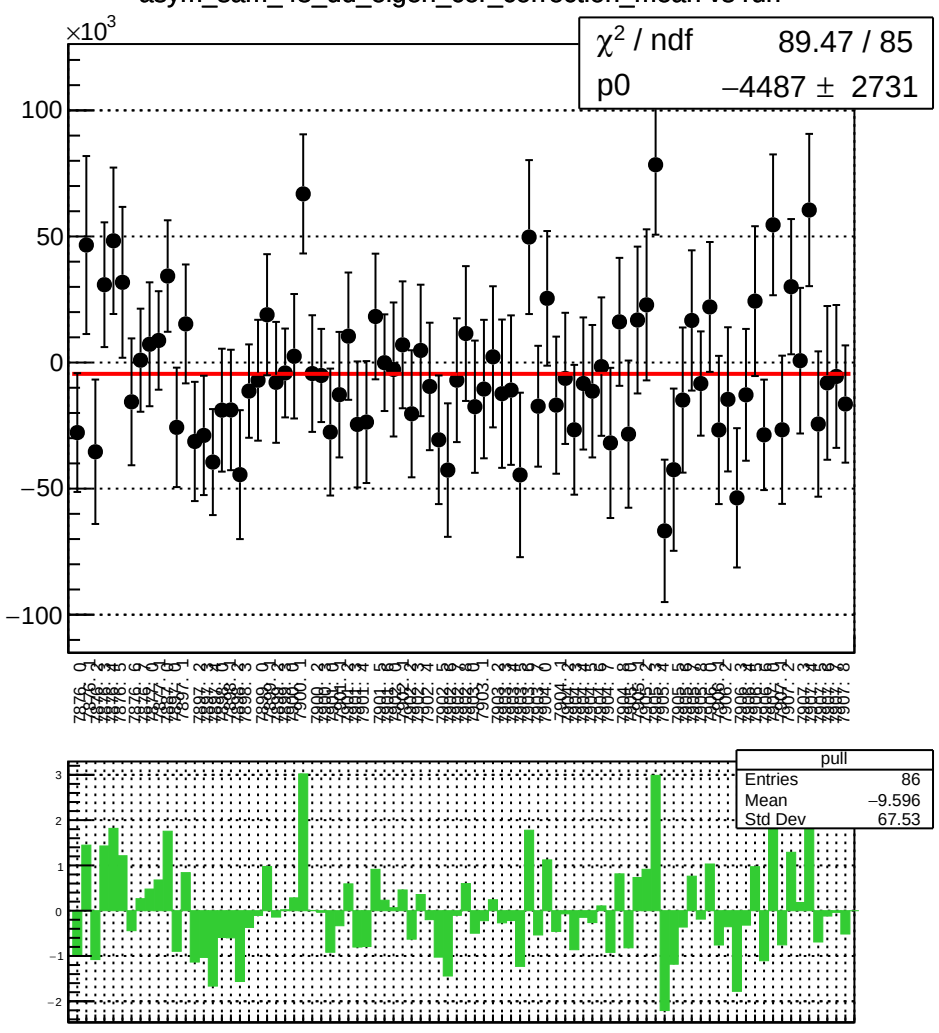

pull1D
Entries 86
Mean 0.01047
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

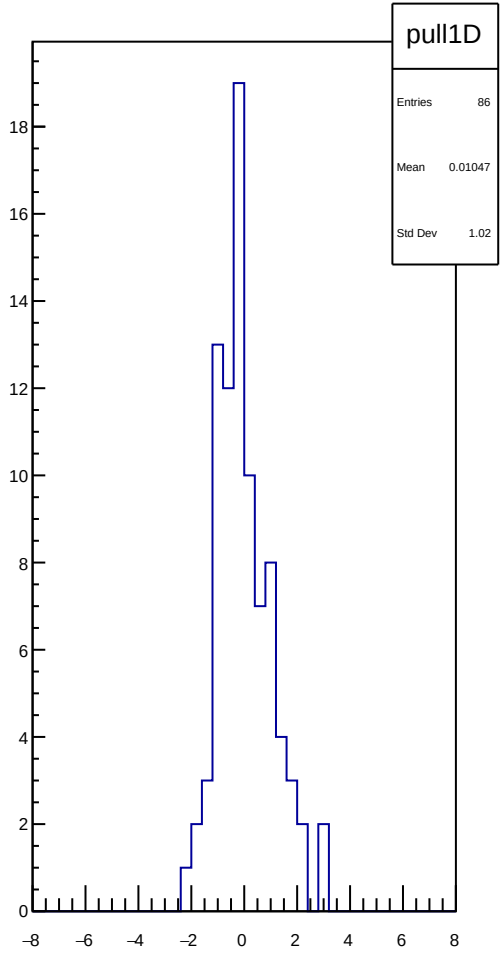

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.27e+04 / 85
p0 2500 ± 1.931
3400
3200
3000
2800
2600
2400
2200

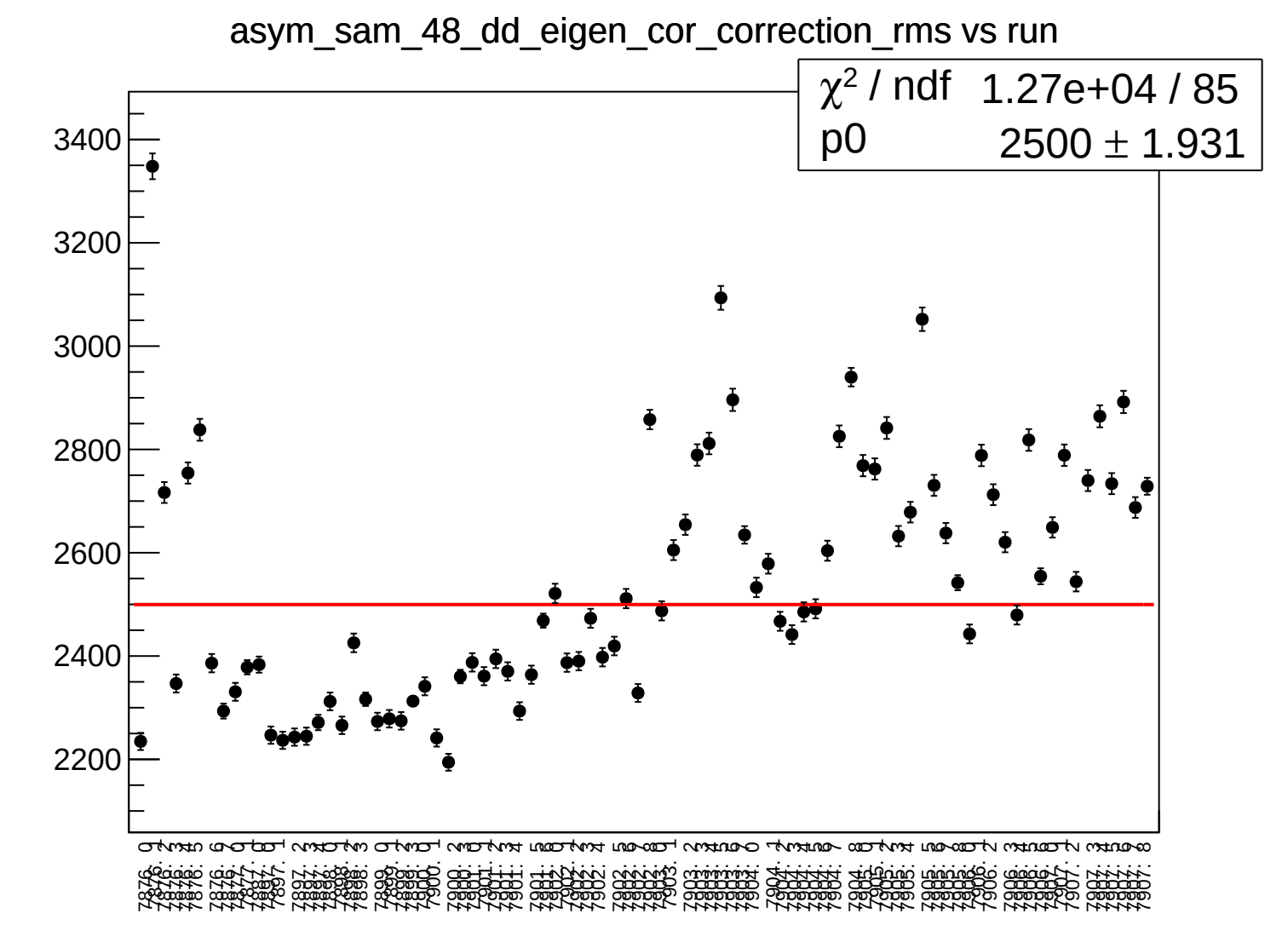

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 72.89 / 85
p0 −48.75 ± 202.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −92.62
Std Dev 0
2
1
0
−1
−2

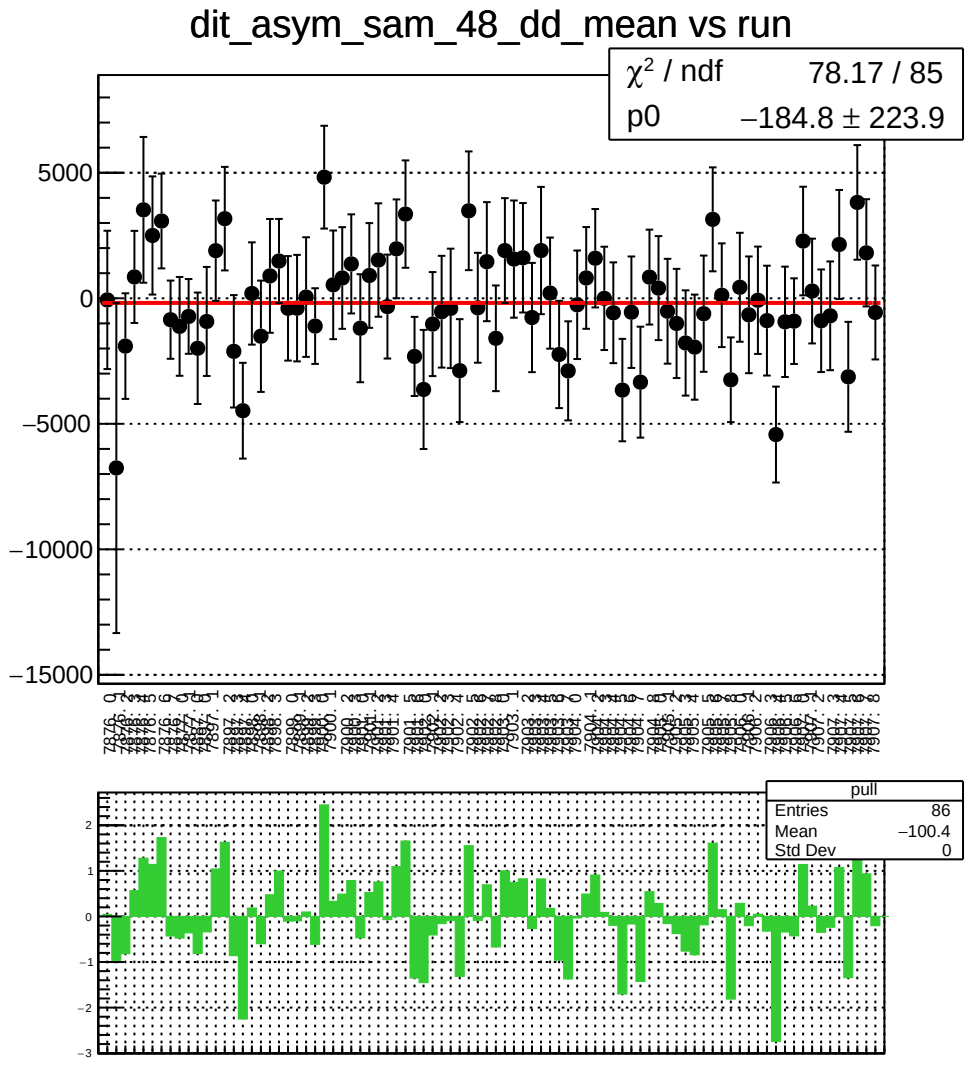

pull1D
Entries 86
Mean 0.0198
Std Dev 0.9204
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

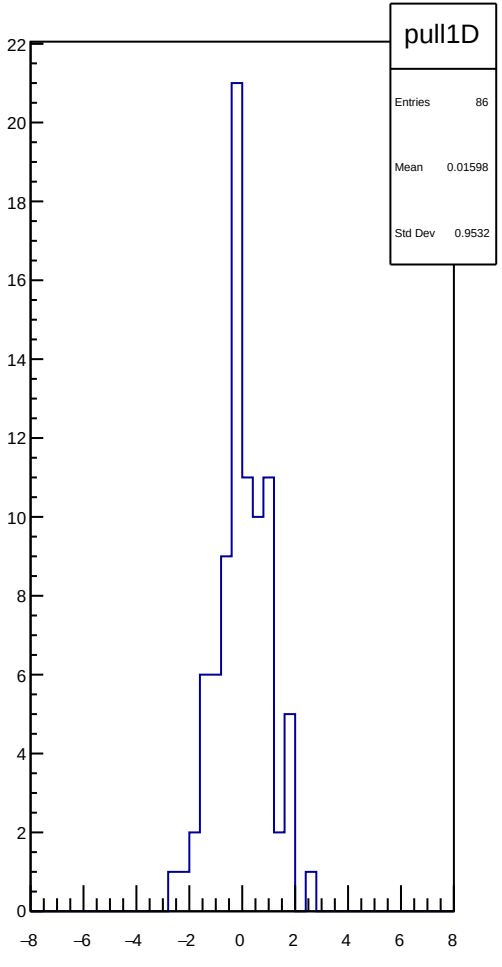

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.594e+04 / 85
p0 184.9 ± 0.143
550
500
450
400
350
300
250
200
150

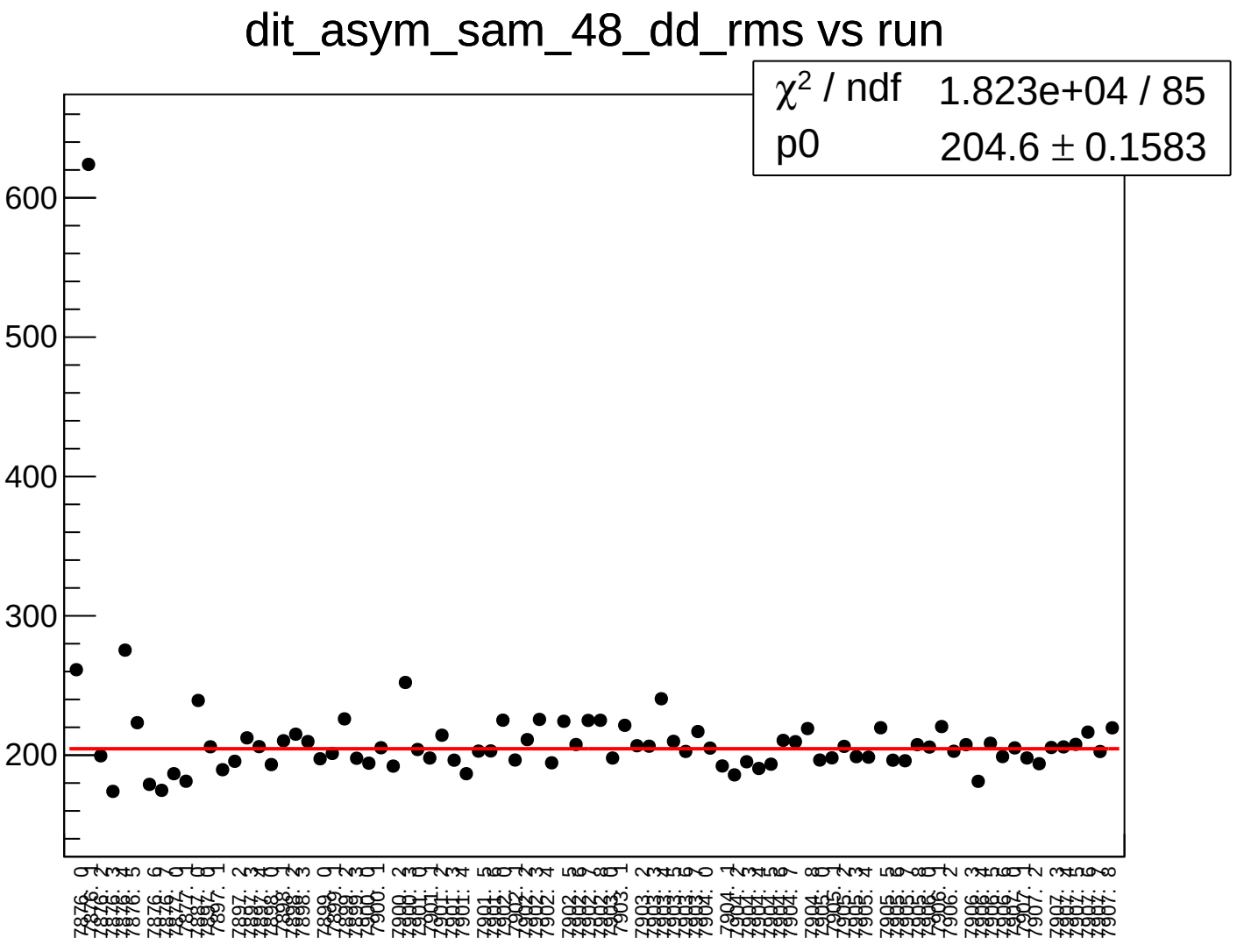

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.47 / 85
p0 −4487 ± 2731
100
50
0
−50
−100
pull
Entries 86
Mean −9.596
Std Dev 67.53
3
2
1
0
−1
−2

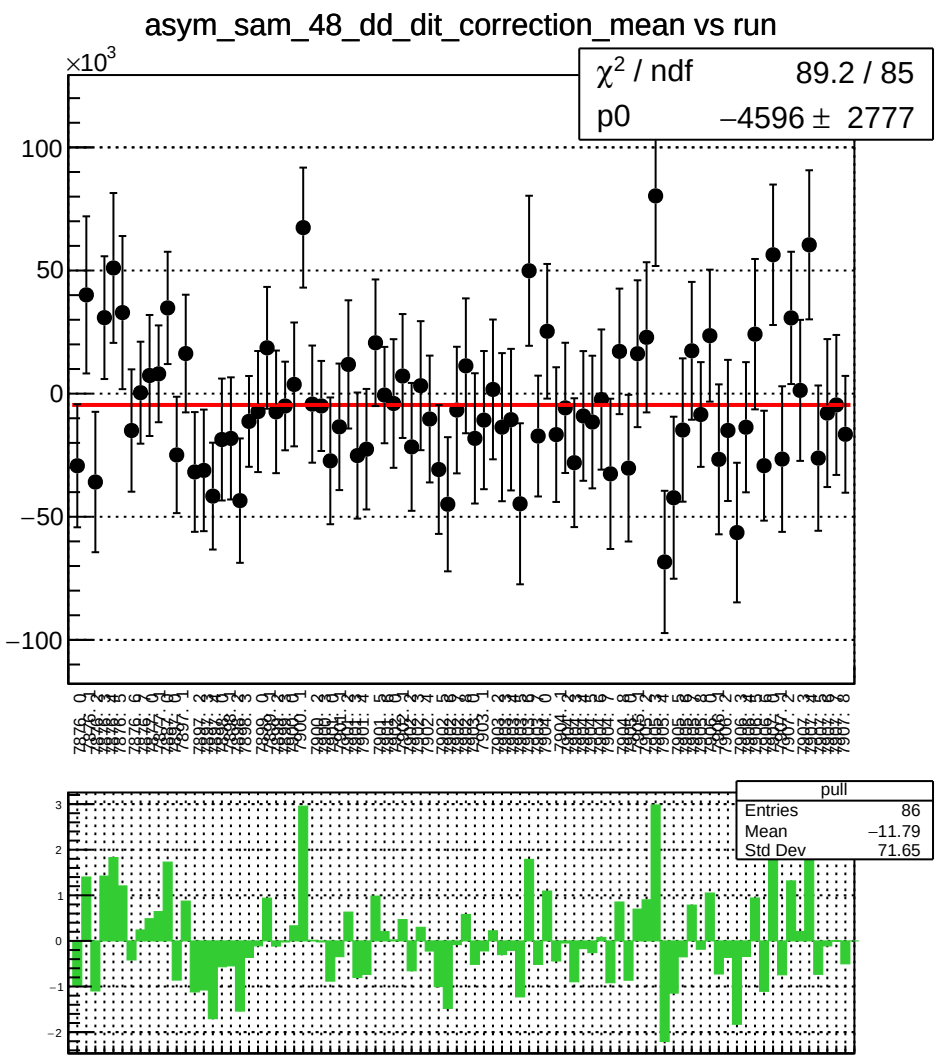

pull1D
Entries 86
Mean 0.01047
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

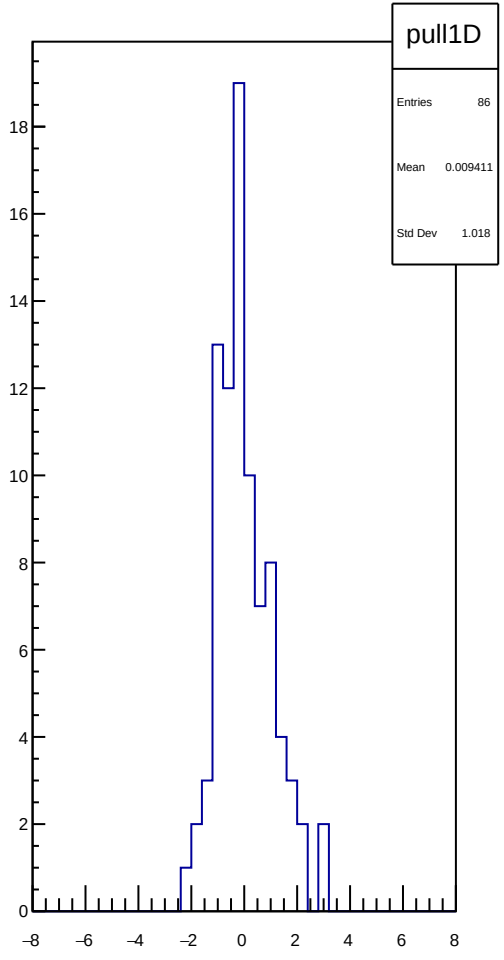

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.27e+04 / 85
p0 2500 ± 1.931
3400
3200
3000
2800
2600
2400
2200

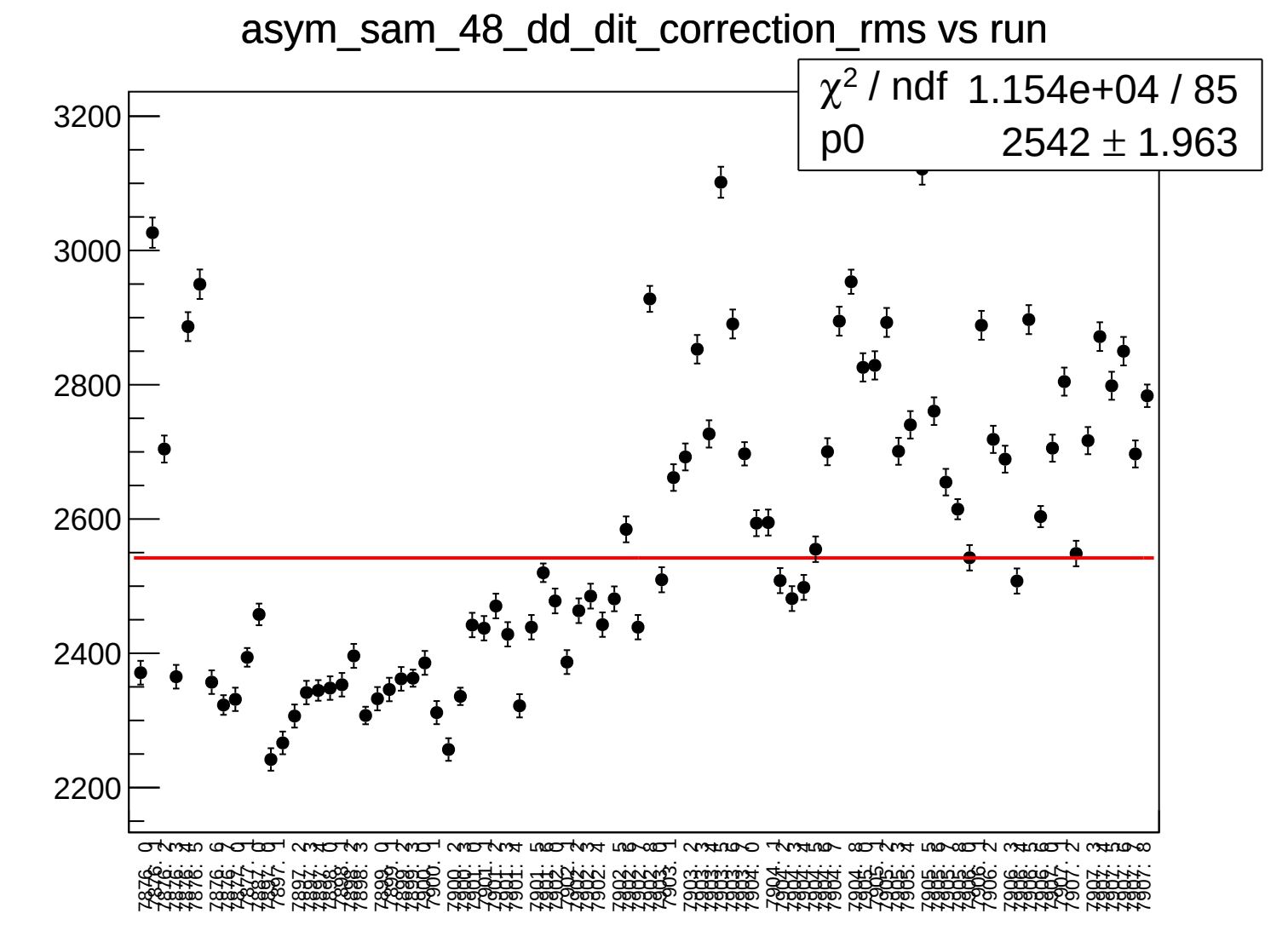

dit_asym_sam_48_dd_mean vs run
χ² / ndf 78.17 / 85
p0 −184.8 ± 223.9
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −100.4
Std Dev 0
2
1
0
−1
−2
−3

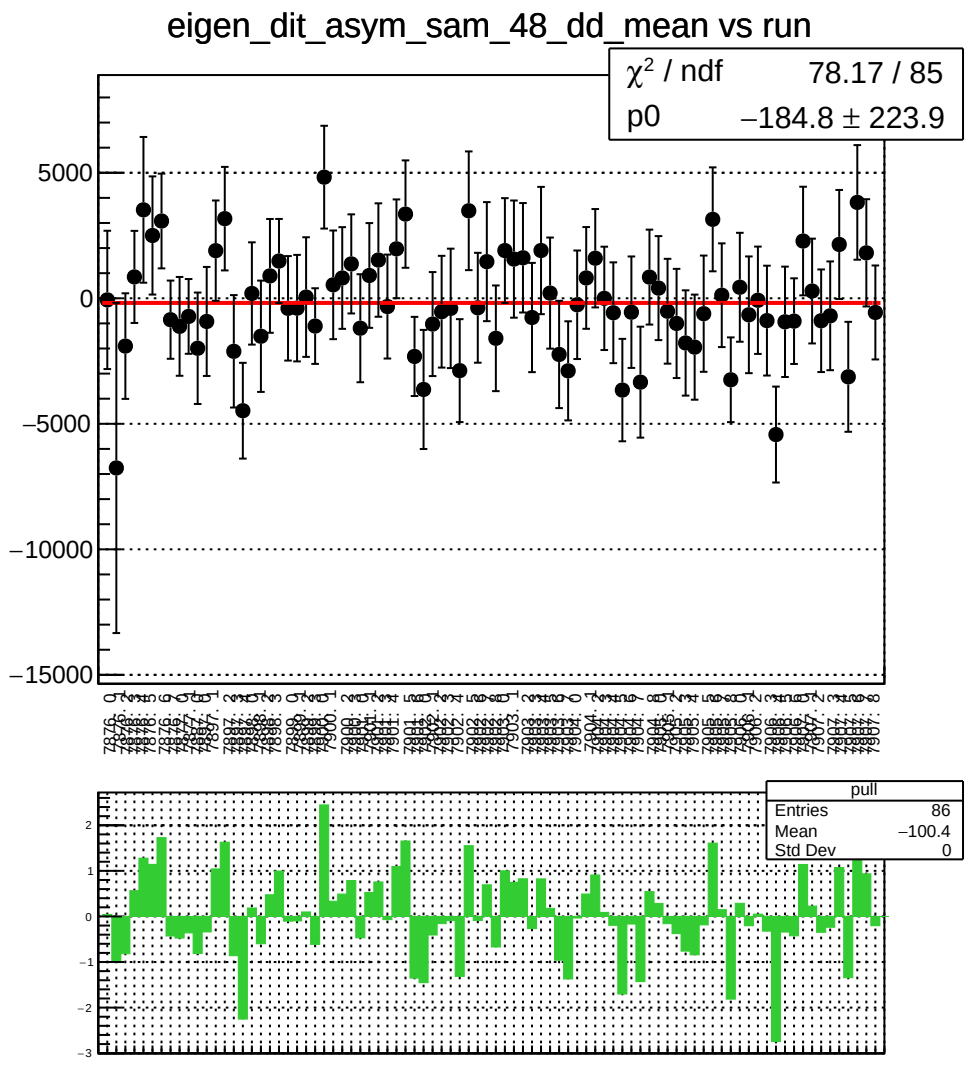

pull1D
Entries 86
Mean 0.01598
Std Dev 0.9532
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

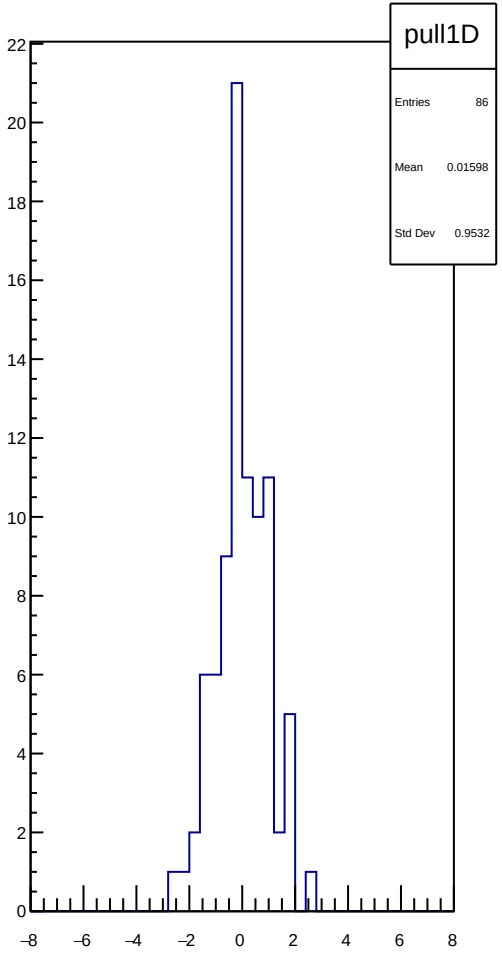

dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 1.823e+04 / 85
p0 204.6 ± 0.1583
600
500
400
300
200

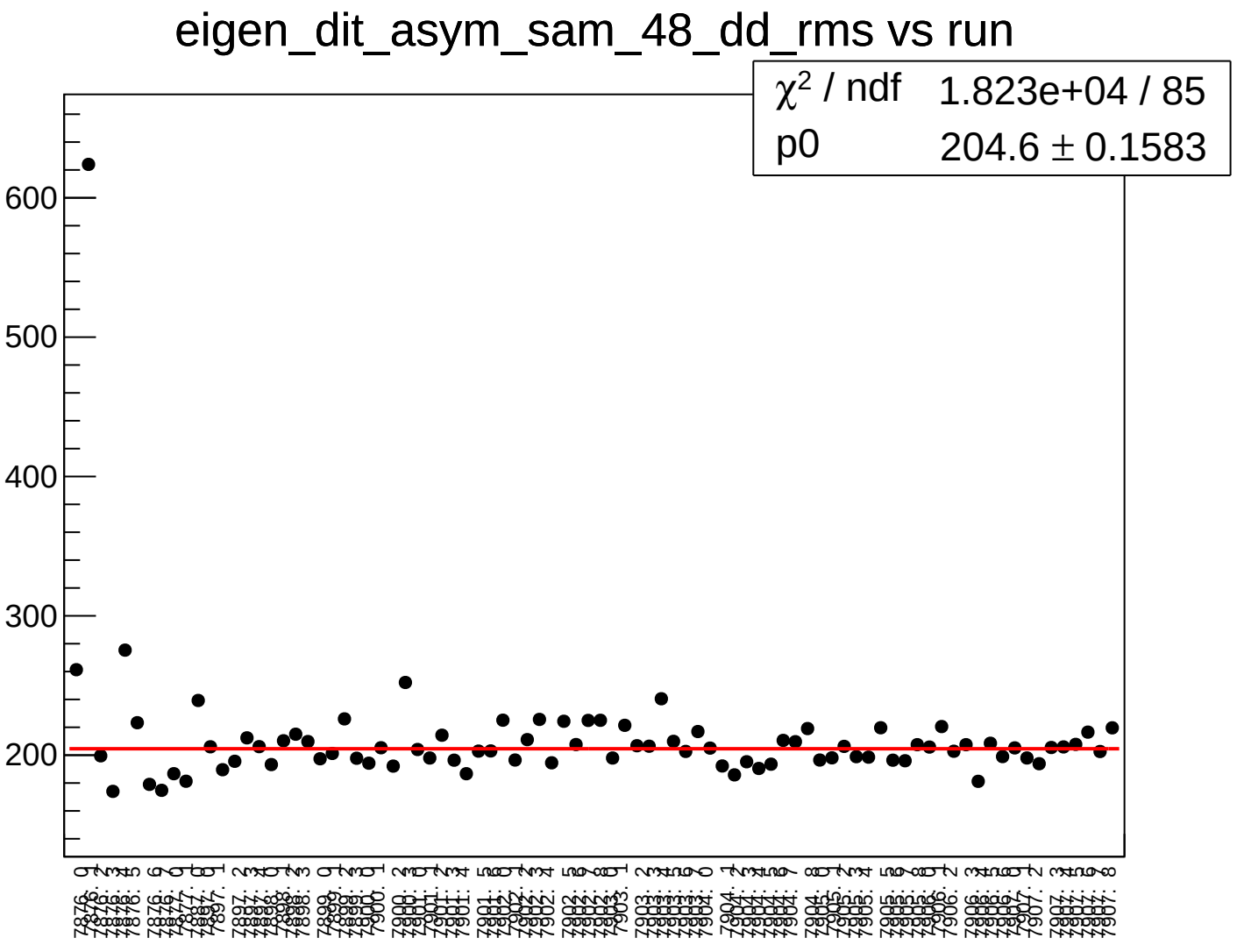

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89.2 / 85
p0 −4596 ± 2777
100
50
0
−50
−100
pull
Entries 86
Mean −11.79
Std Dev 71.65
3
2
1
0
−1
−2

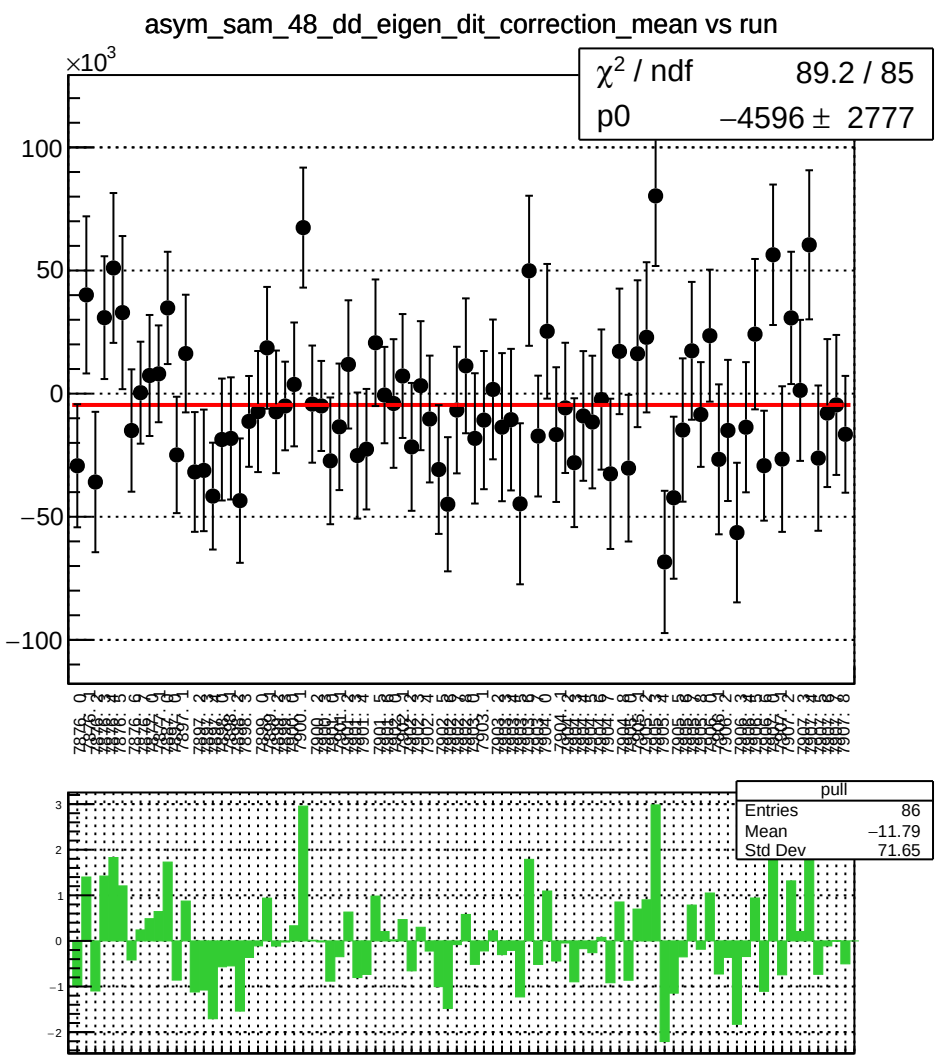

pull1D
Entries 86
Mean 0.009411
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

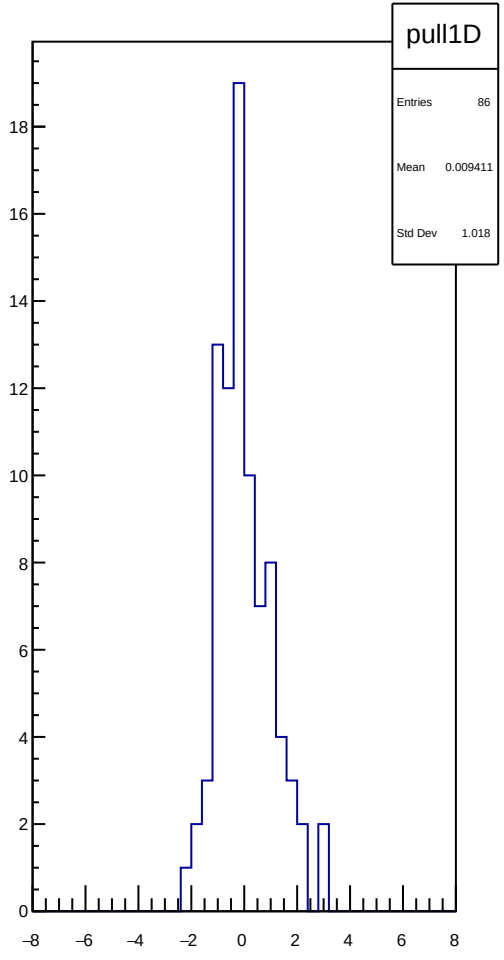

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1.154e+04 / 85
p0 2542 ± 1.963
3200
3000
2800
2600
2400
2200

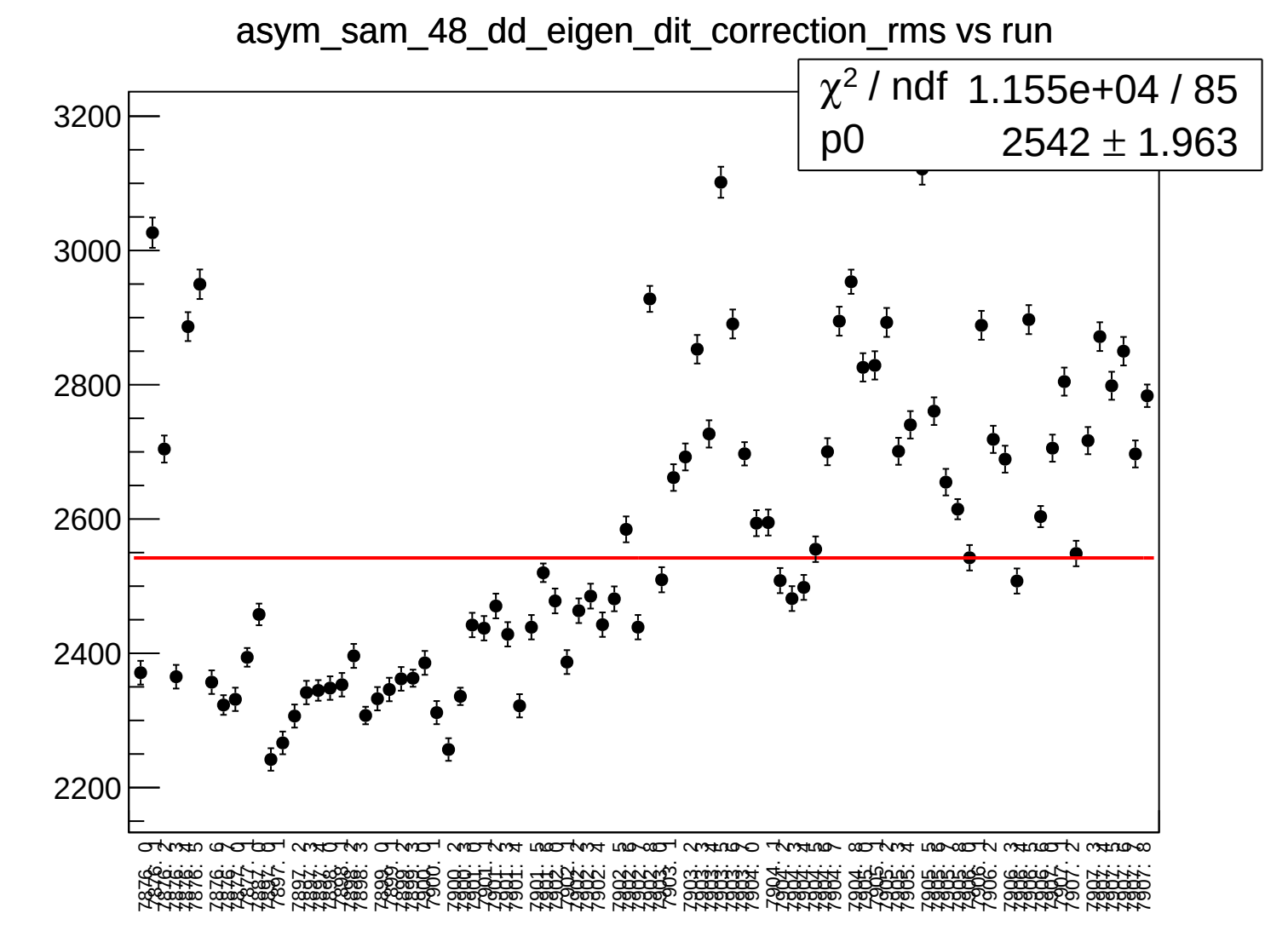

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 78.17 / 85
p0 −184.8 ± 223.9
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −100.4
Std Dev 0
2
1
0
−1
−2
−3

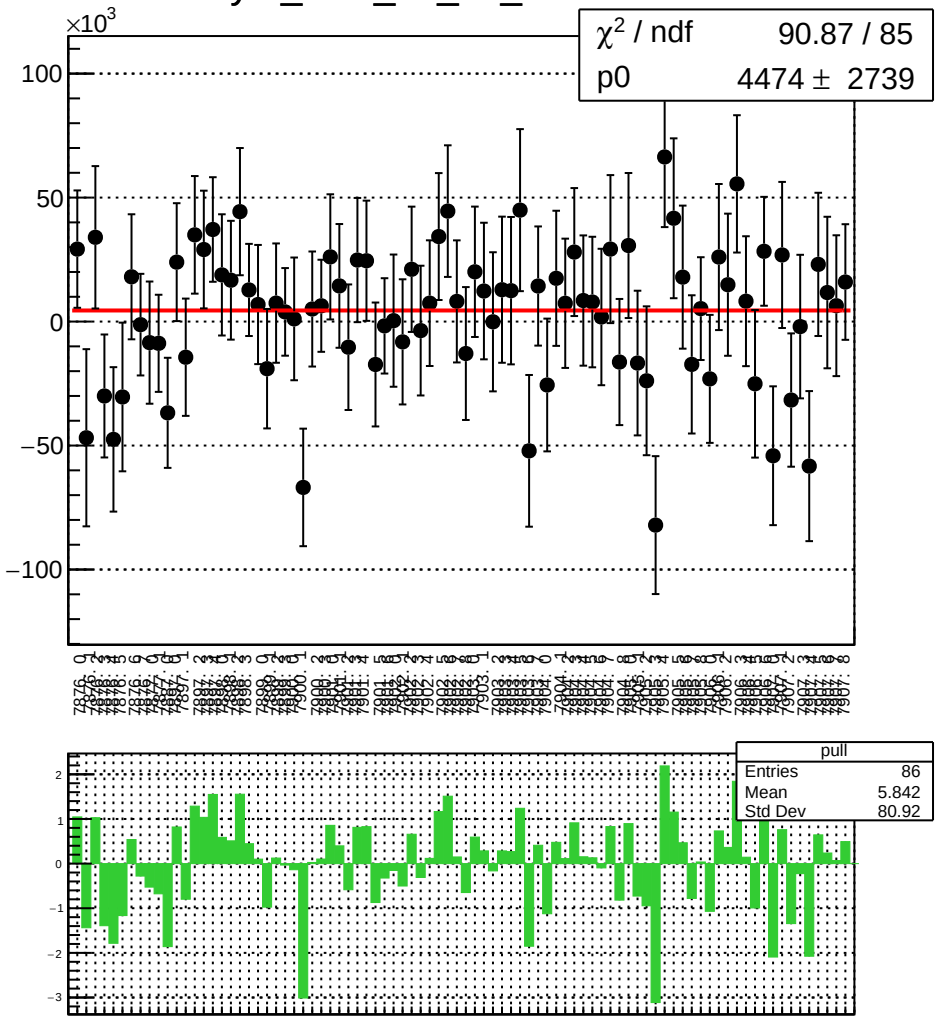

pull1D
Entries 86
Mean 0.01598
Std Dev 0.9532
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

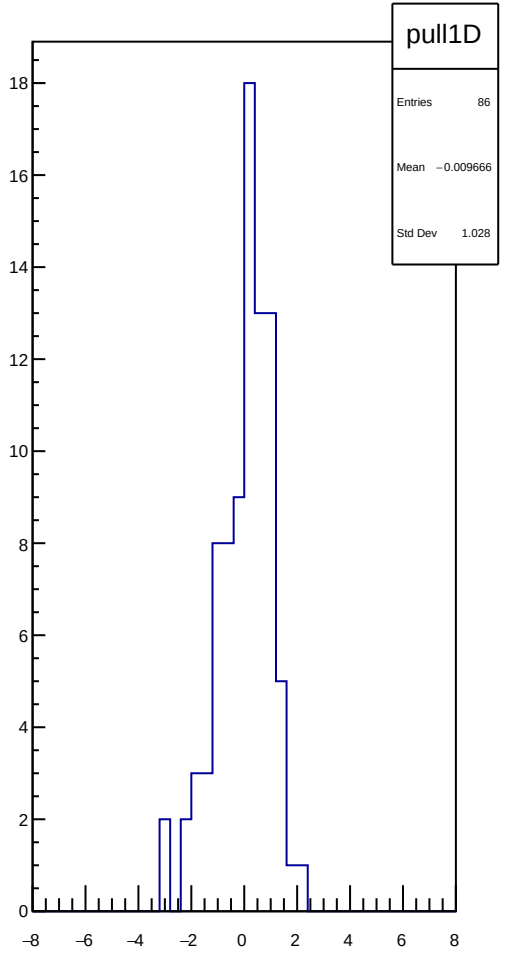

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.823e+04 / 85
p0 204.6 ± 0.1583
600
500
400
300
200

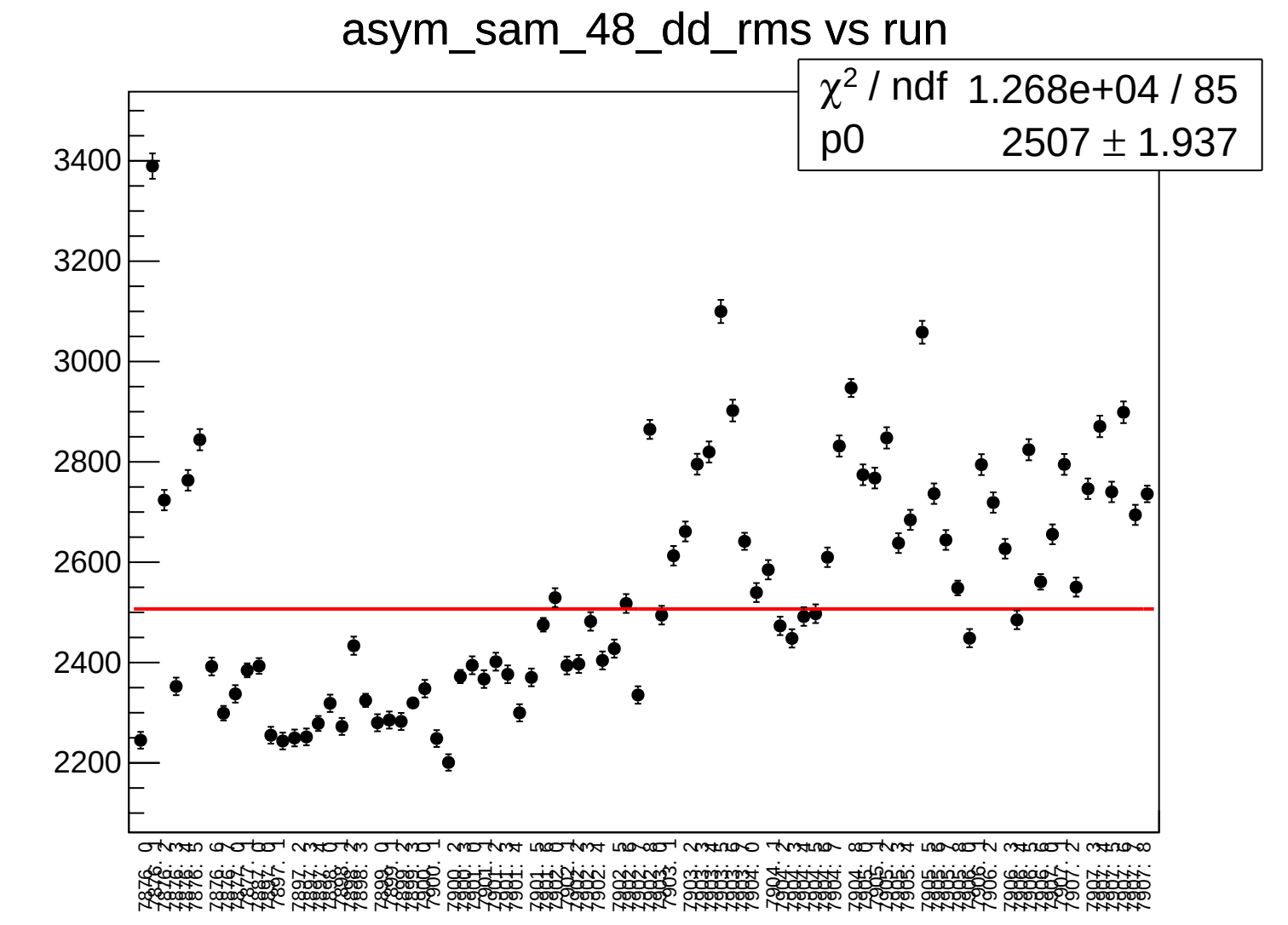

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.2 / 85
p0 −4596 ± 2777
100
50
0
−50
−100
pull
Entries 86
Mean −11.79
Std Dev 71.65
3
2
1
0
−1
−2

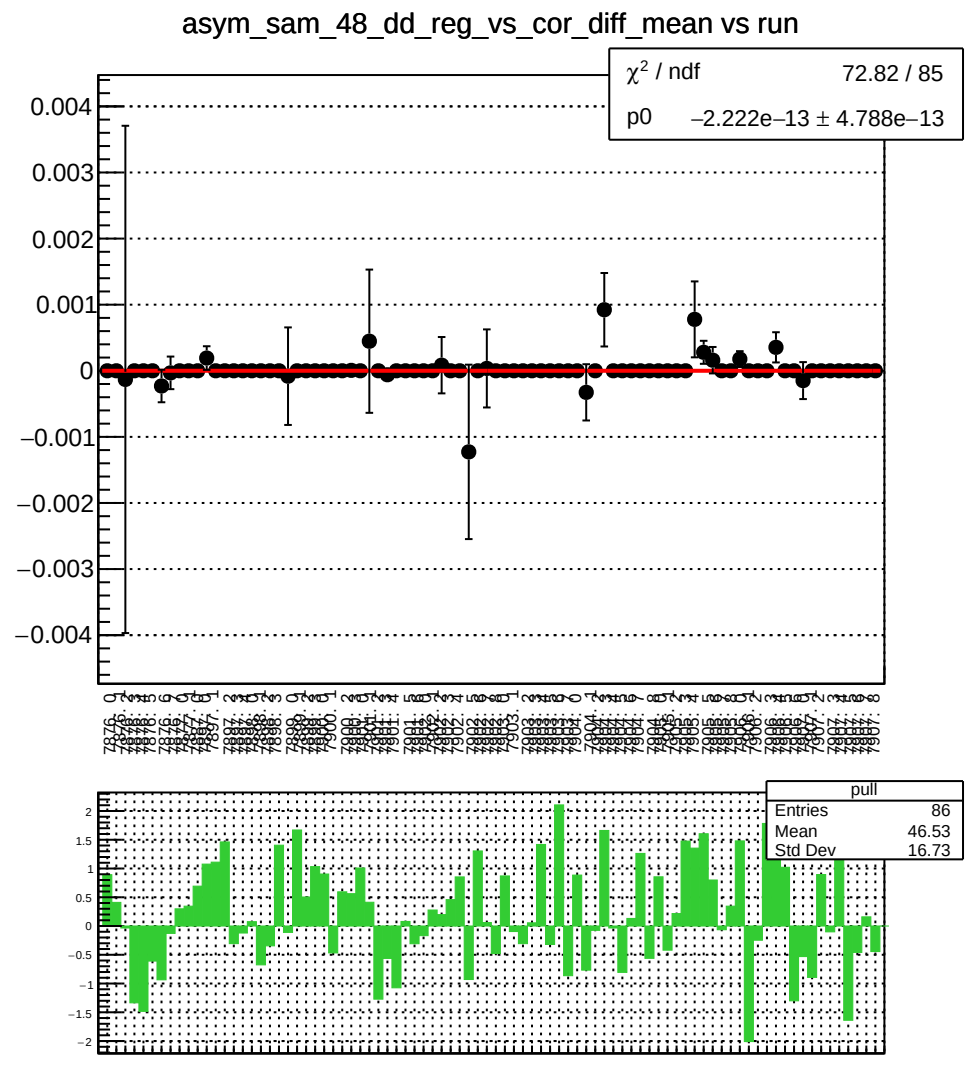

pull1D
Entries 86
Mean 0.009411
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

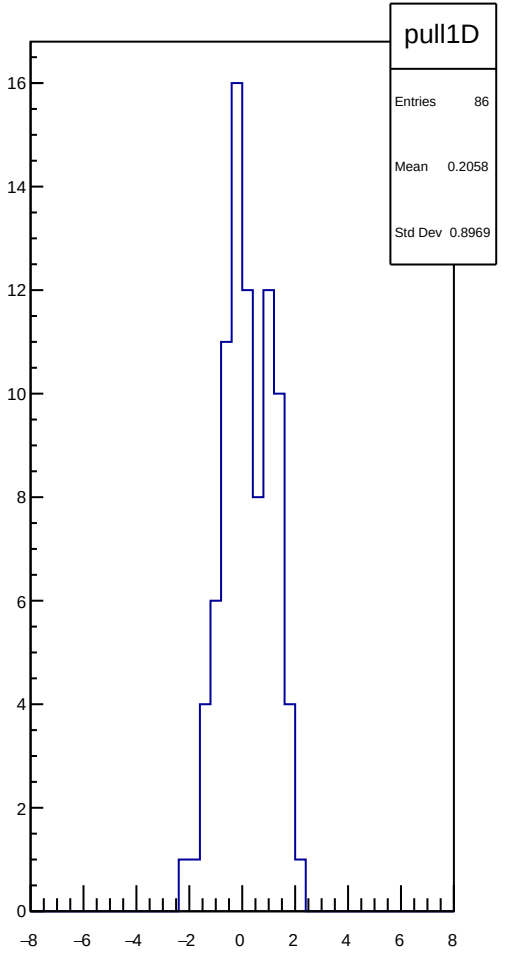

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.155e+04 / 85
p0 2542 ± 1.963
3200
3000
2800
2600
2400
2200

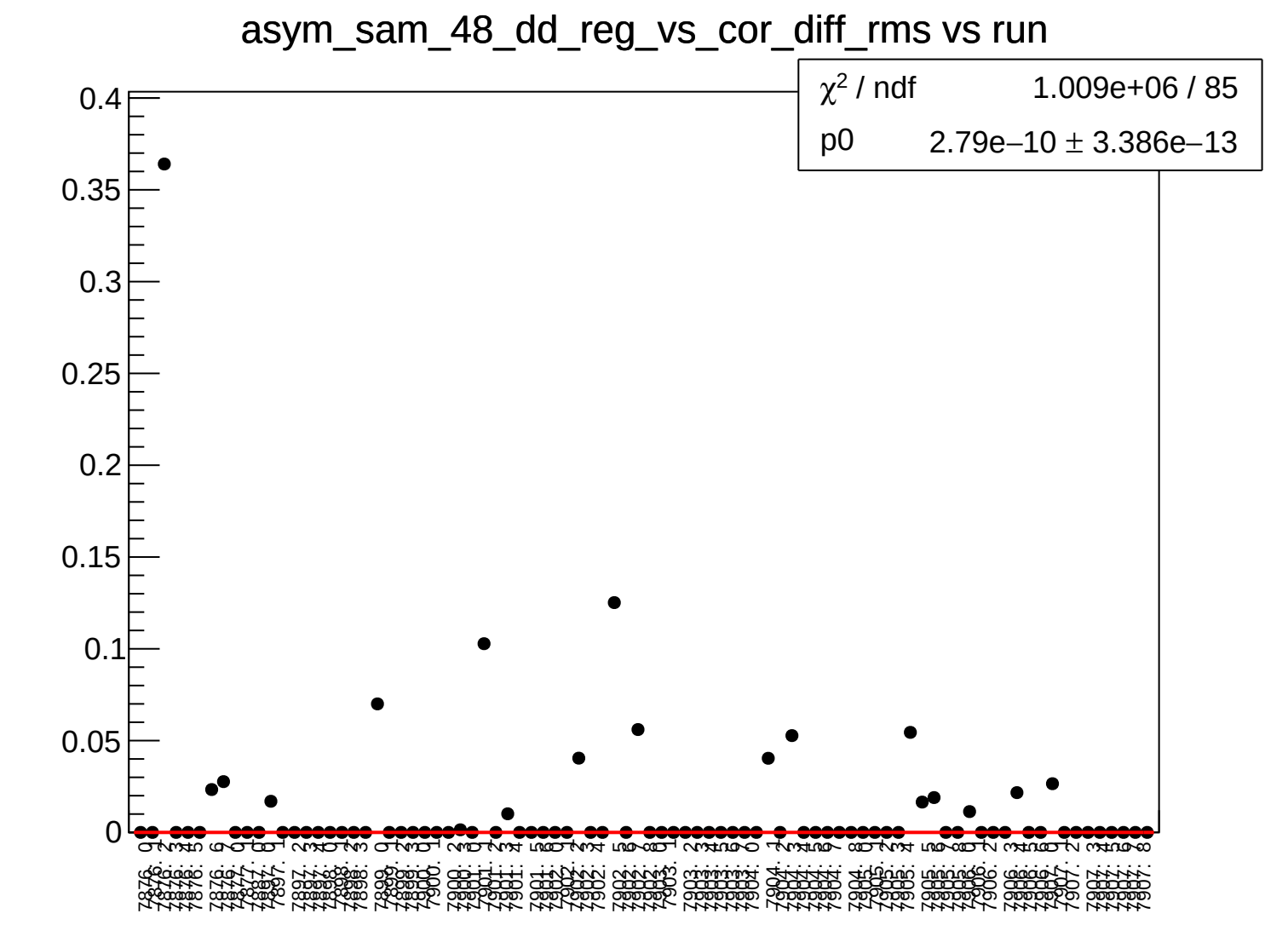

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 90.87 / 85
p0 4474 ± 2739
100
50
0
−50
−100
pull
Entries 86
Mean 5.842
Std Dev 80.92
2
1
0
−1
−2
−3

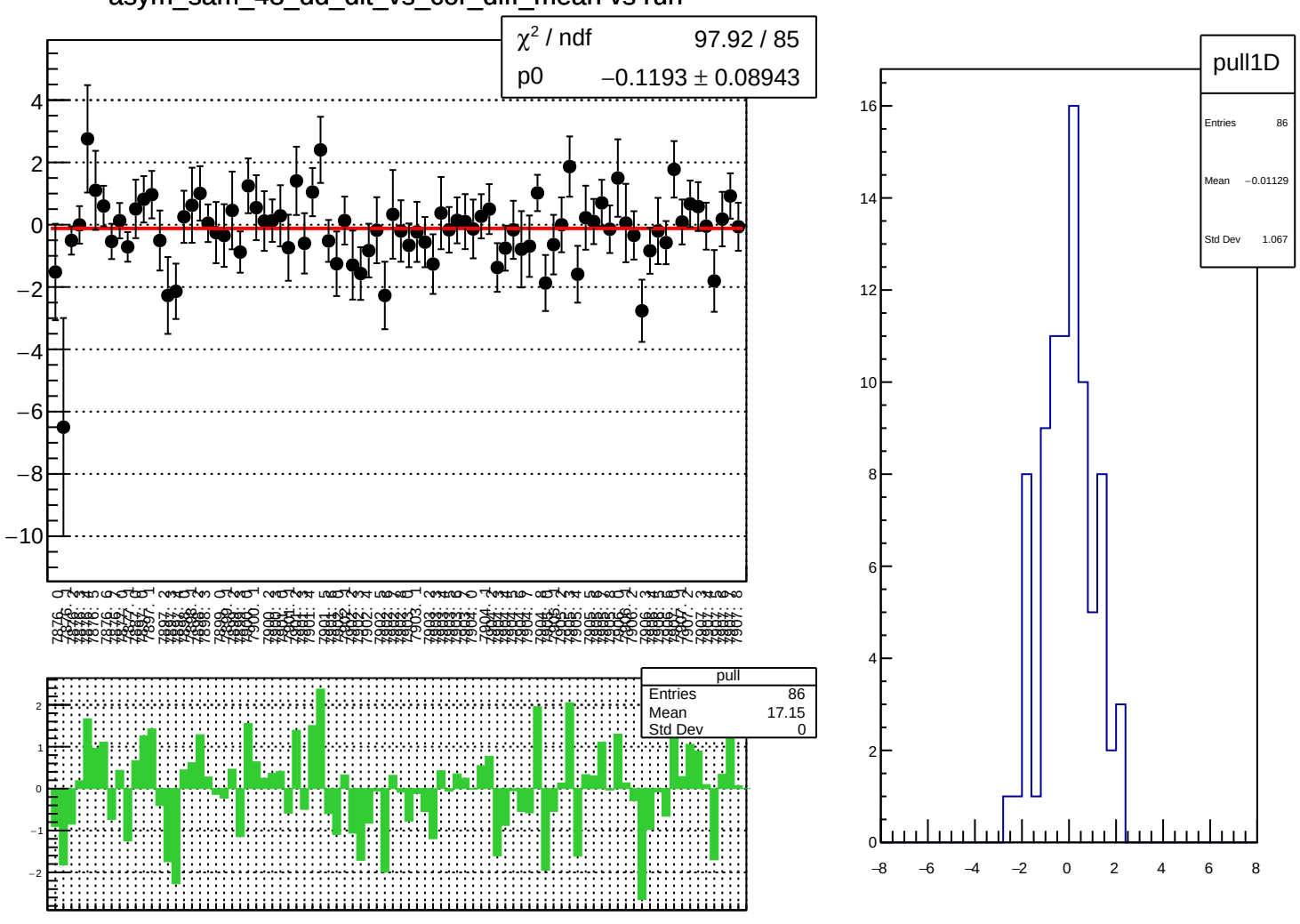

pull1D
Entries 86
Mean −0.009666
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

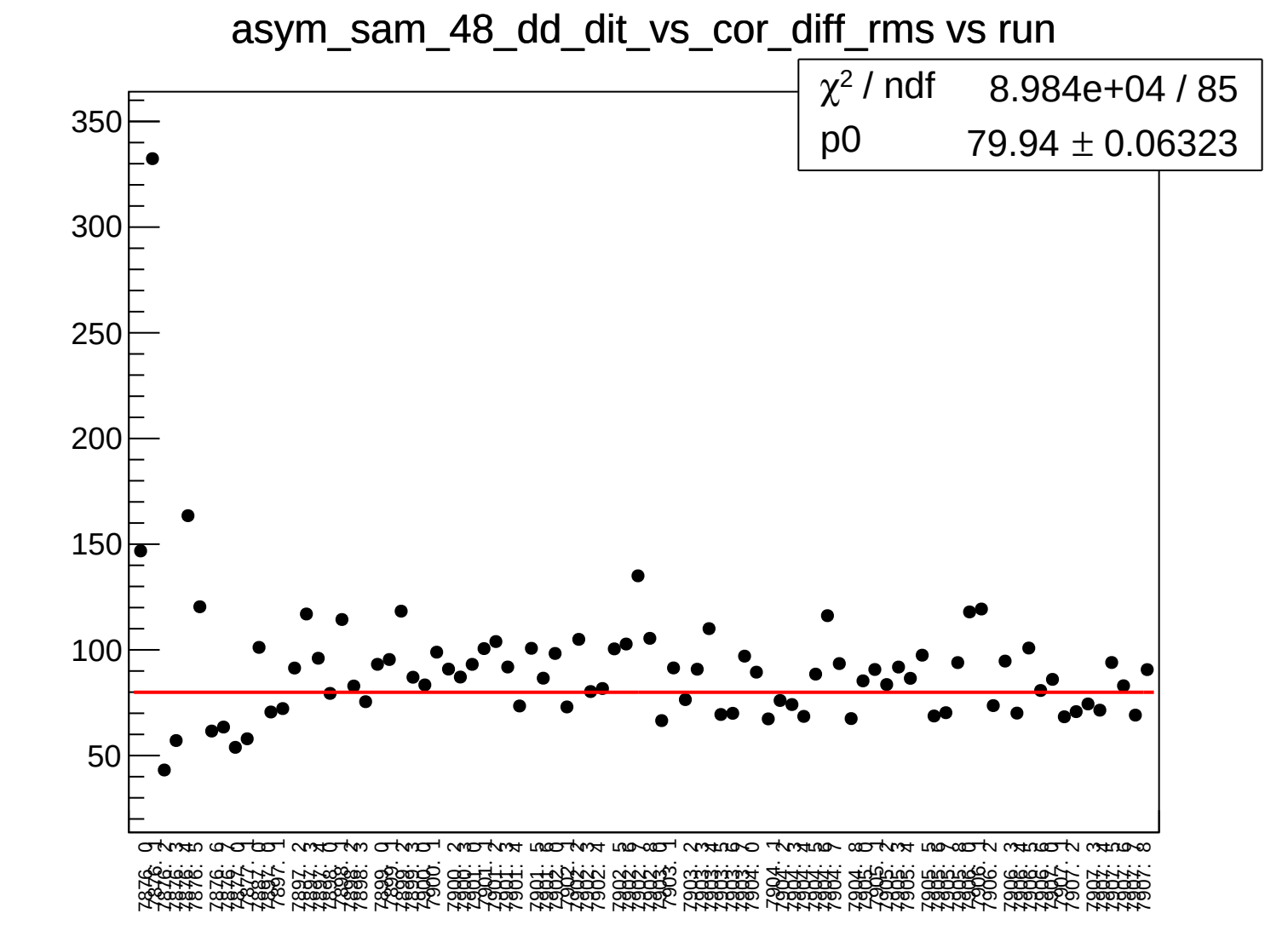

asym_sam_48_dd_rms vs run
χ^2 / ndf 1.268e+04 / 85
p0 2507 ± 1.937
3400
3200
3000
2800
2600
2400
2200

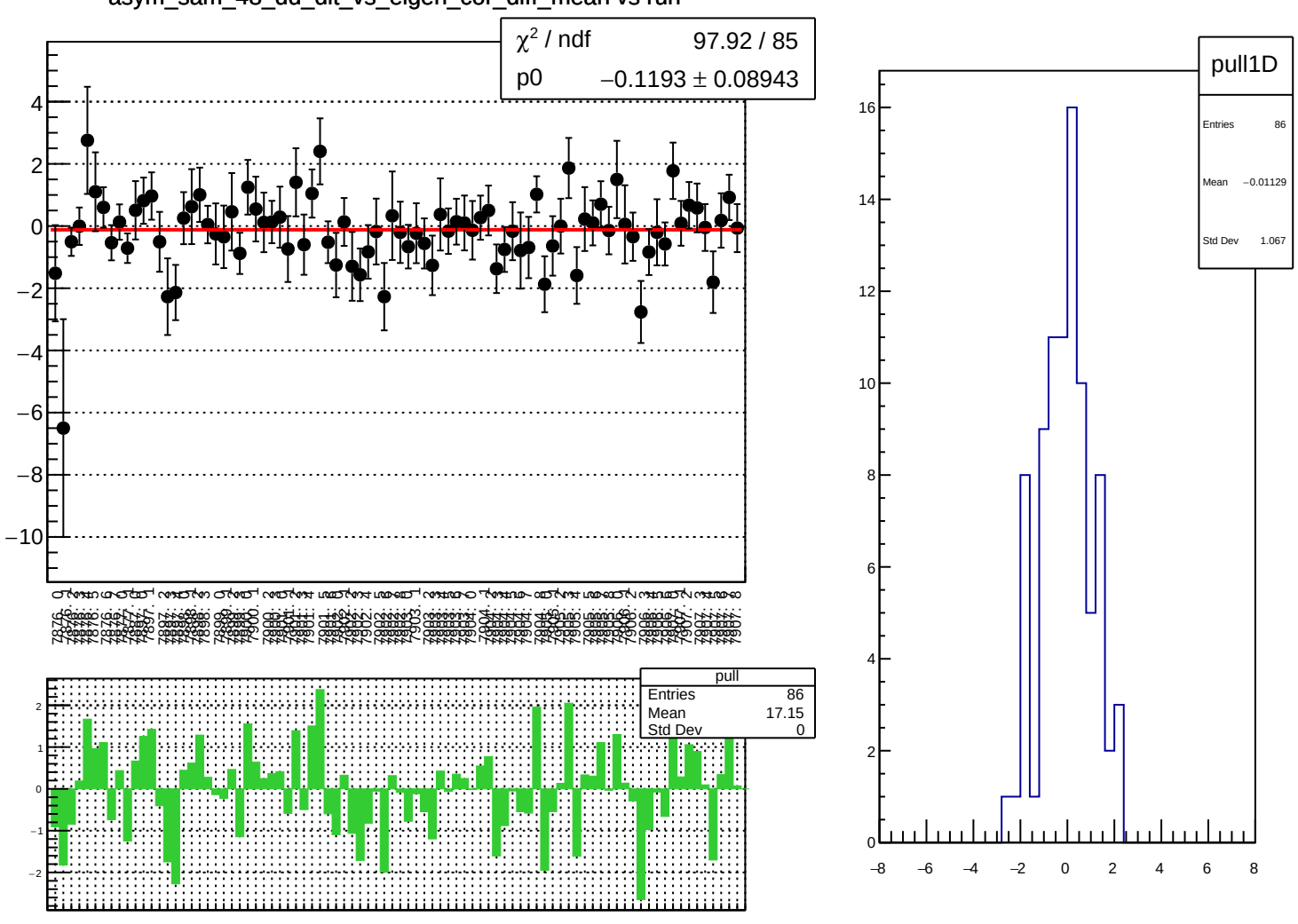

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.82 / 85
p0 −2.222e−13 ± 4.788e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 86
Mean 46.53
Std Dev 16.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

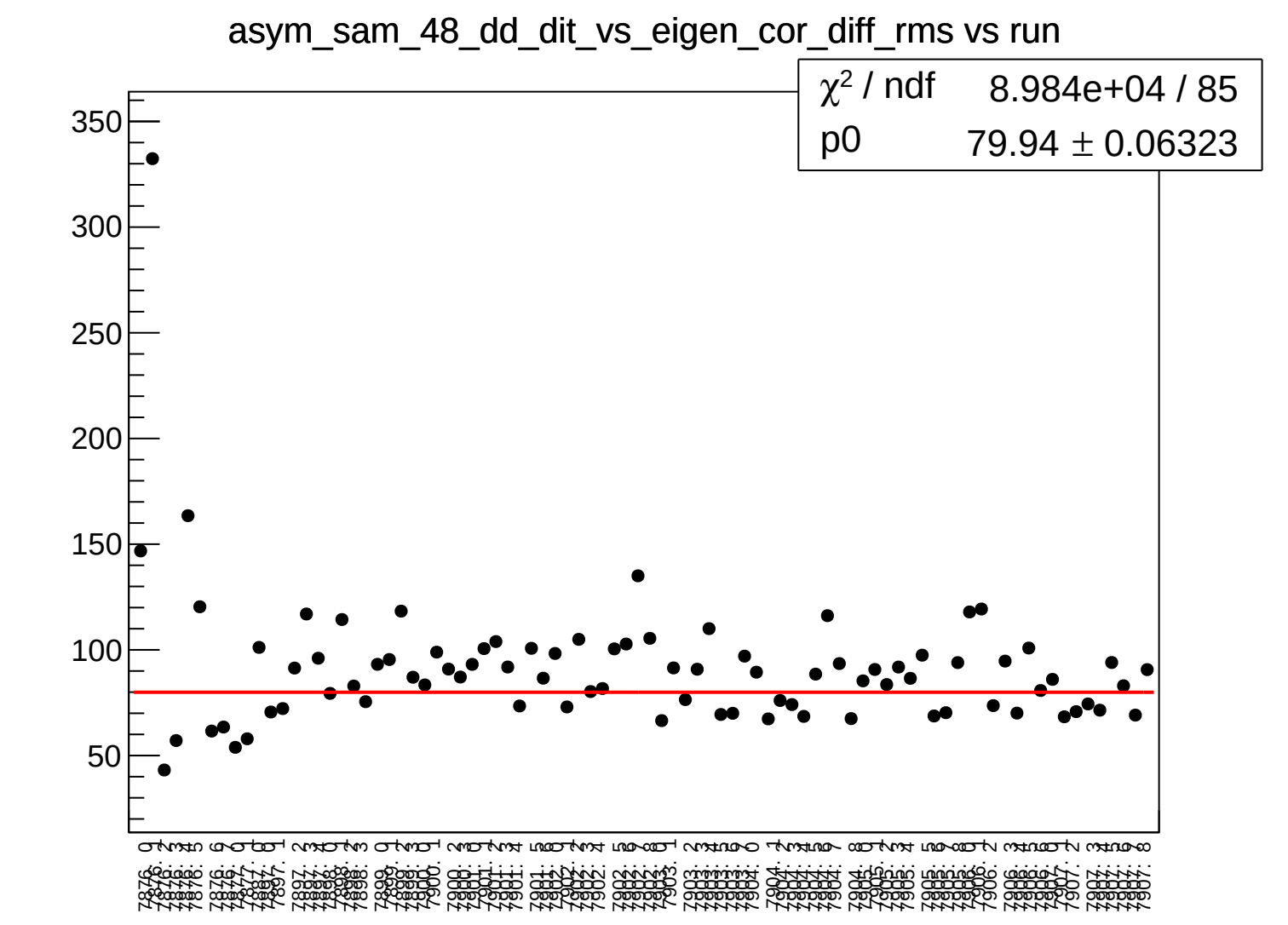

pull1D
Entries 86
Mean 0.2058
Std Dev 0.8969
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

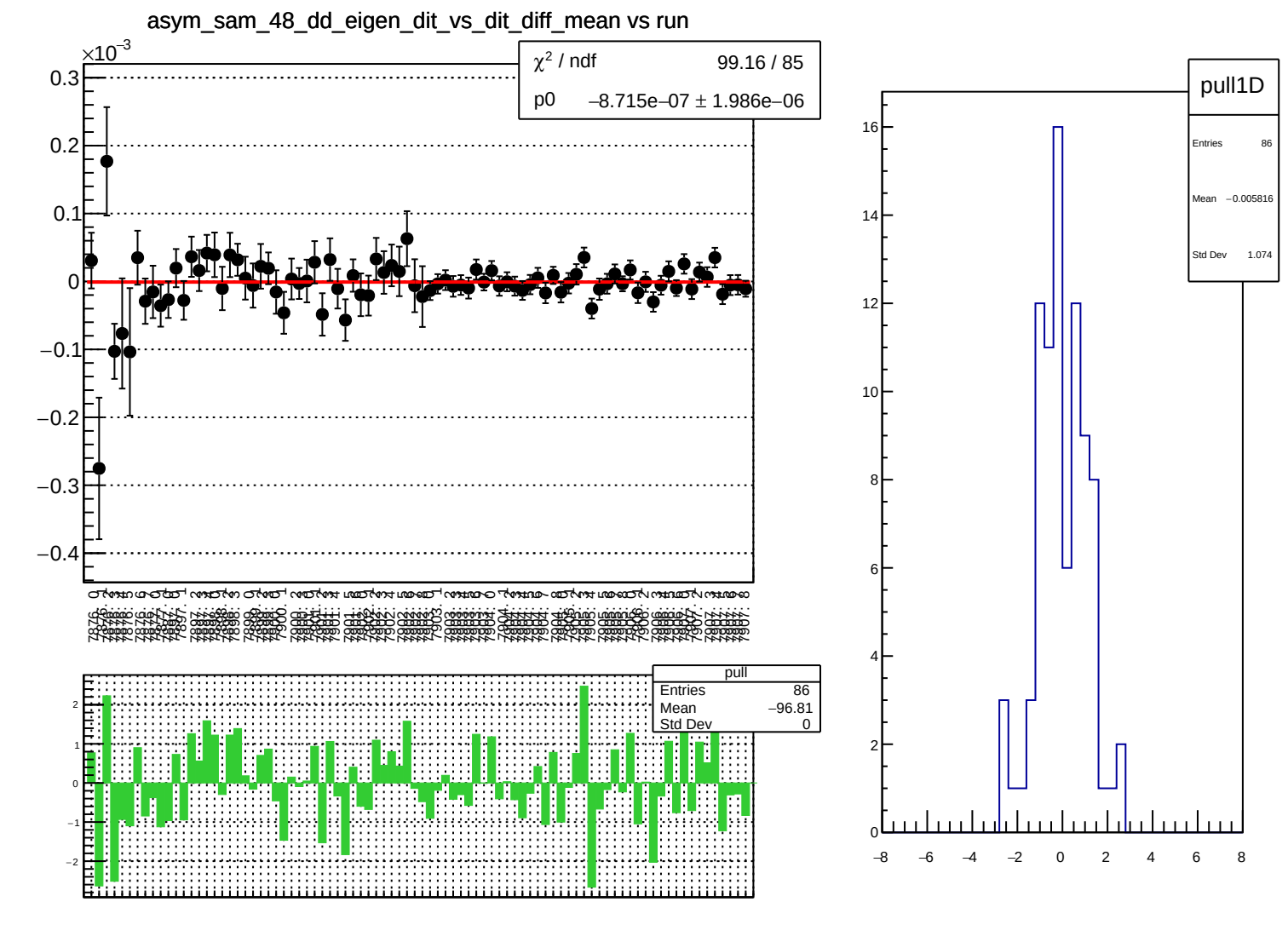

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.009e+06 / 85
p0 2.79e−10 ± 3.386e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

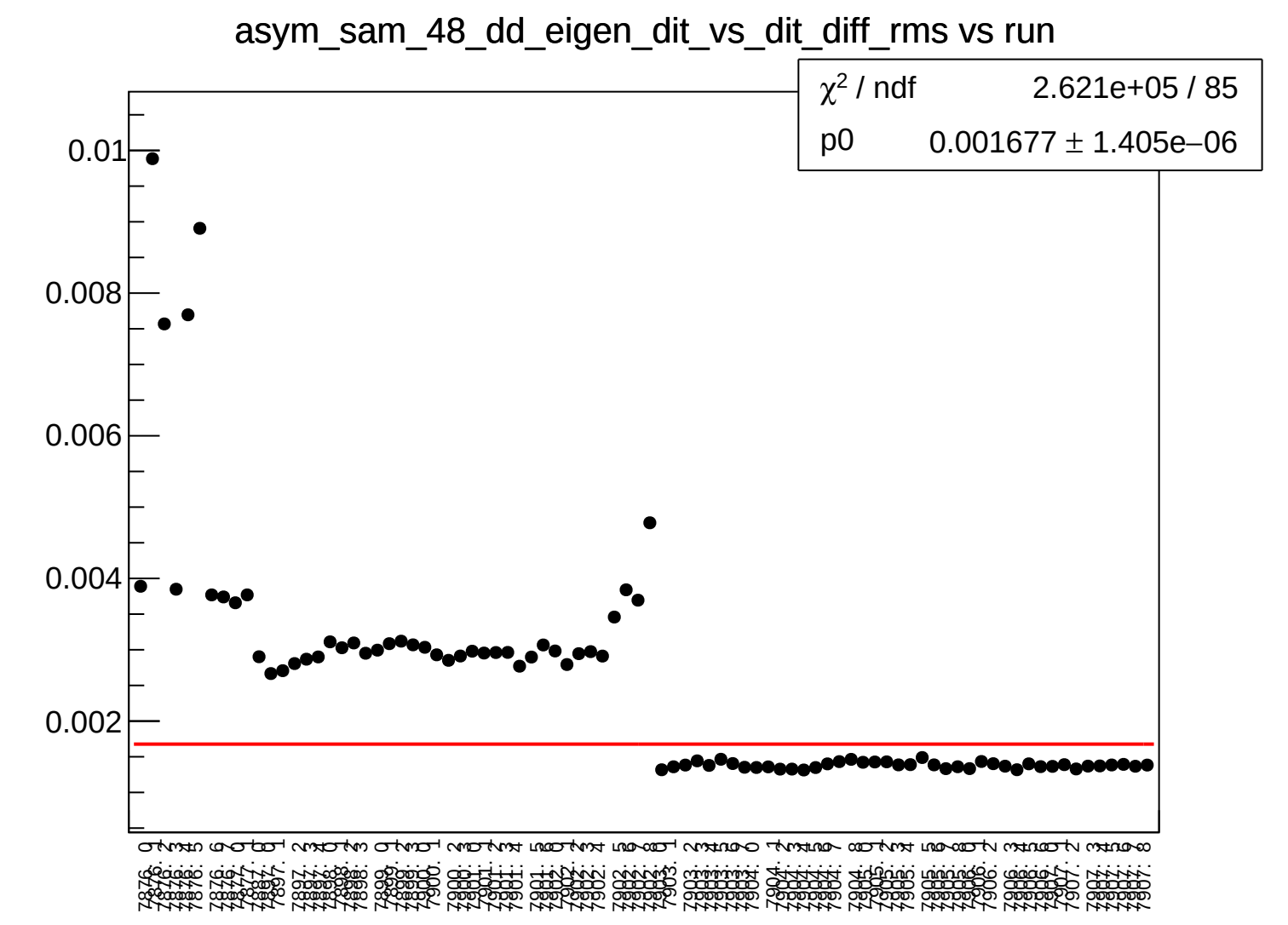

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.92 / 85
p0 −0.1193 ± 0.08943
pull
Entries 86
Mean 17.15
Std Dev 0
pull1D
Entries 86
Mean −0.01129
Std Dev 1.067

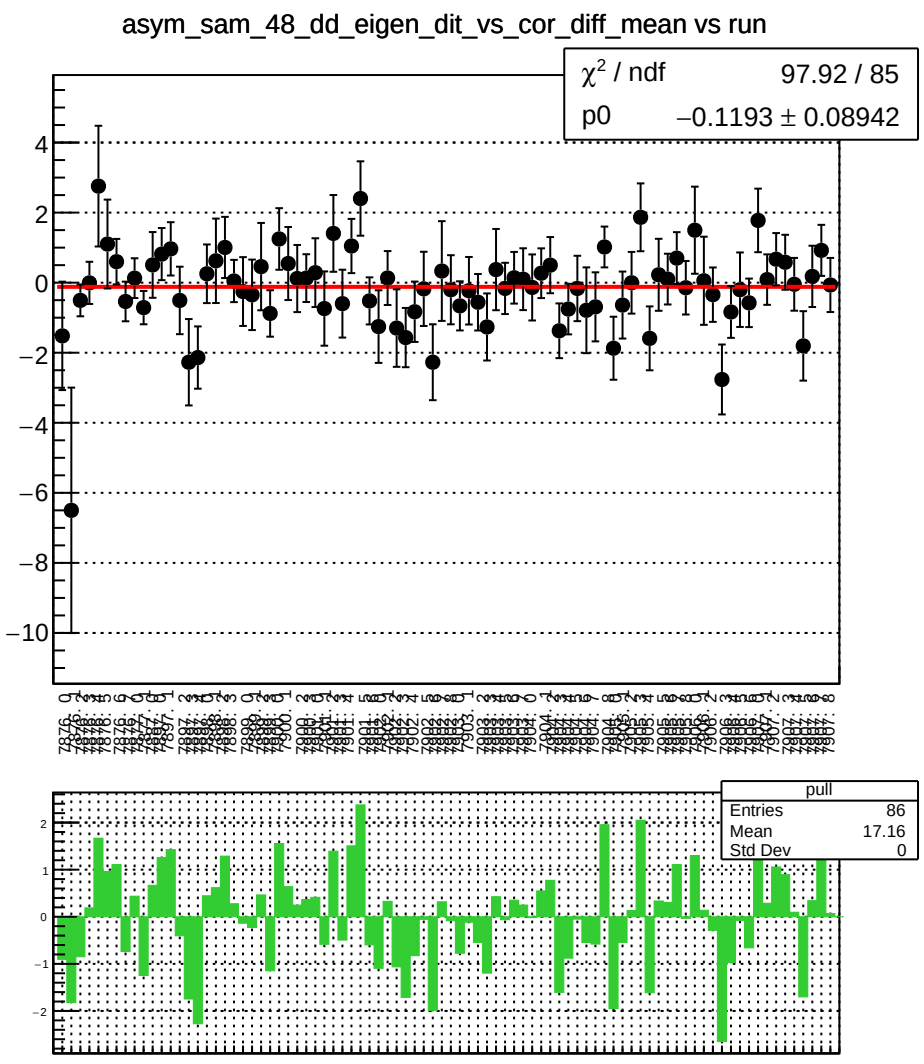

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.984e+04 / 85
p0 79.94 ± 0.06323
350
300
250
200
150
100
50

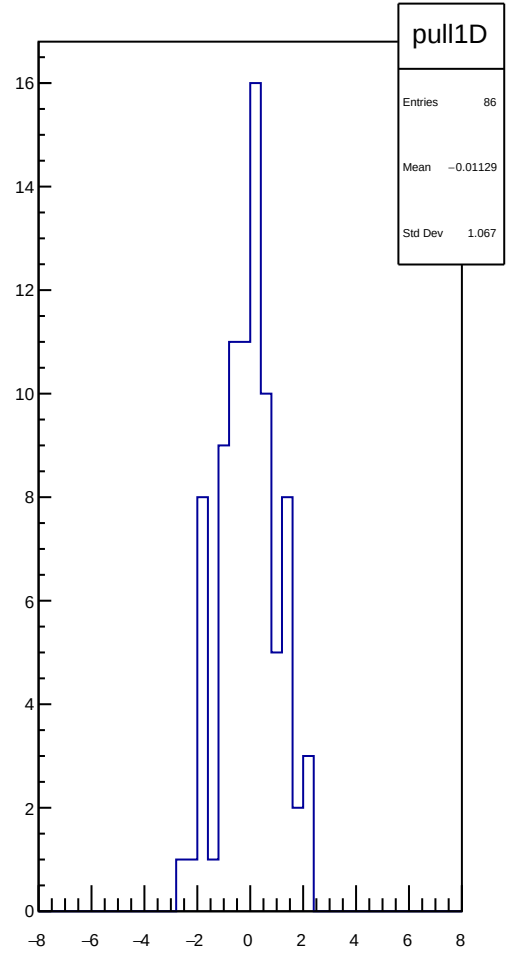

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.92 / 85
p0 −0.1193 ± 0.08943
pull
Entries 86
Mean 17.15
Std Dev 0
pull1D
Entries 86
Mean −0.01129
Std Dev 1.067

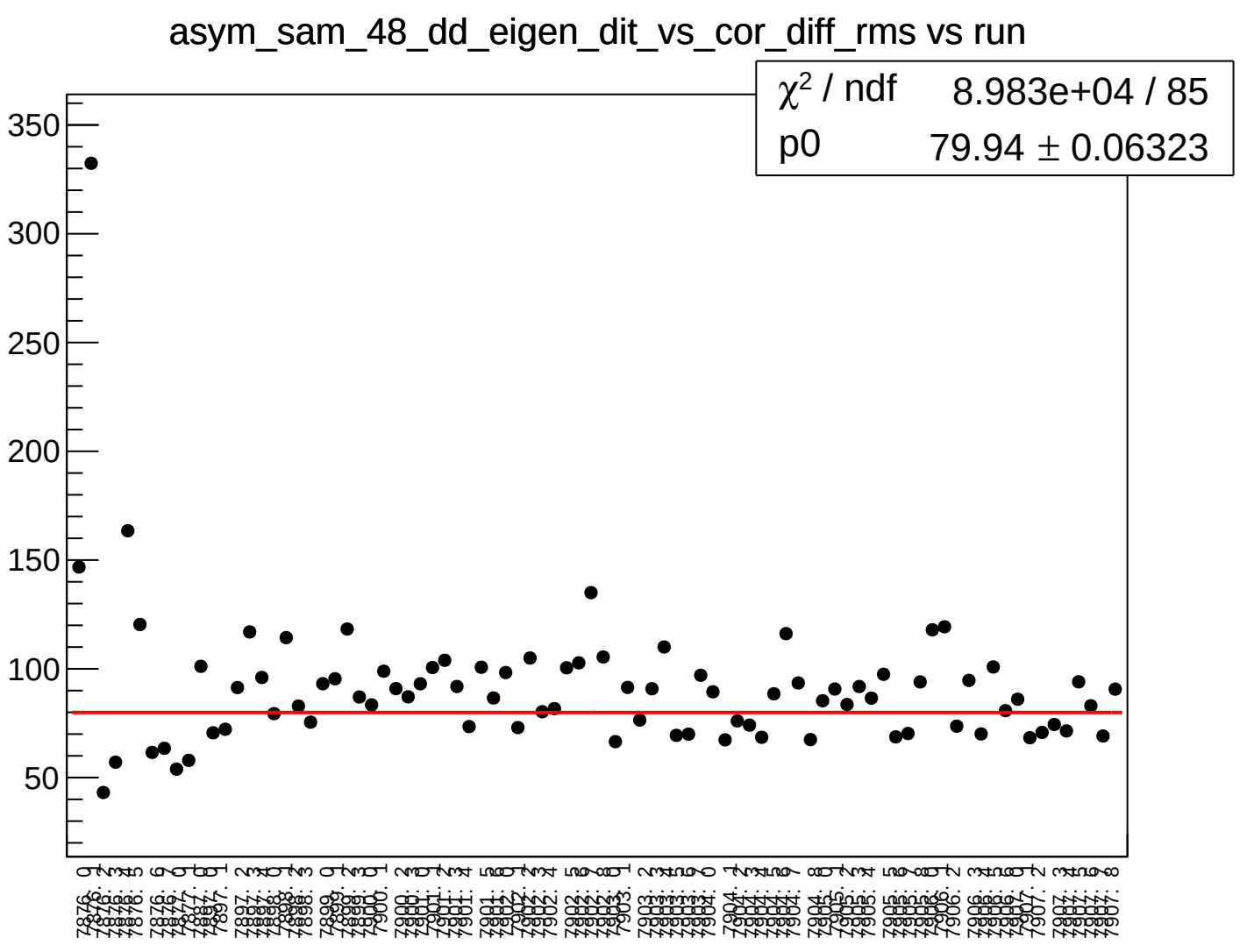

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.984e+04 / 85
p0 79.94 ± 0.06323
350
300
250
200
150
100
50

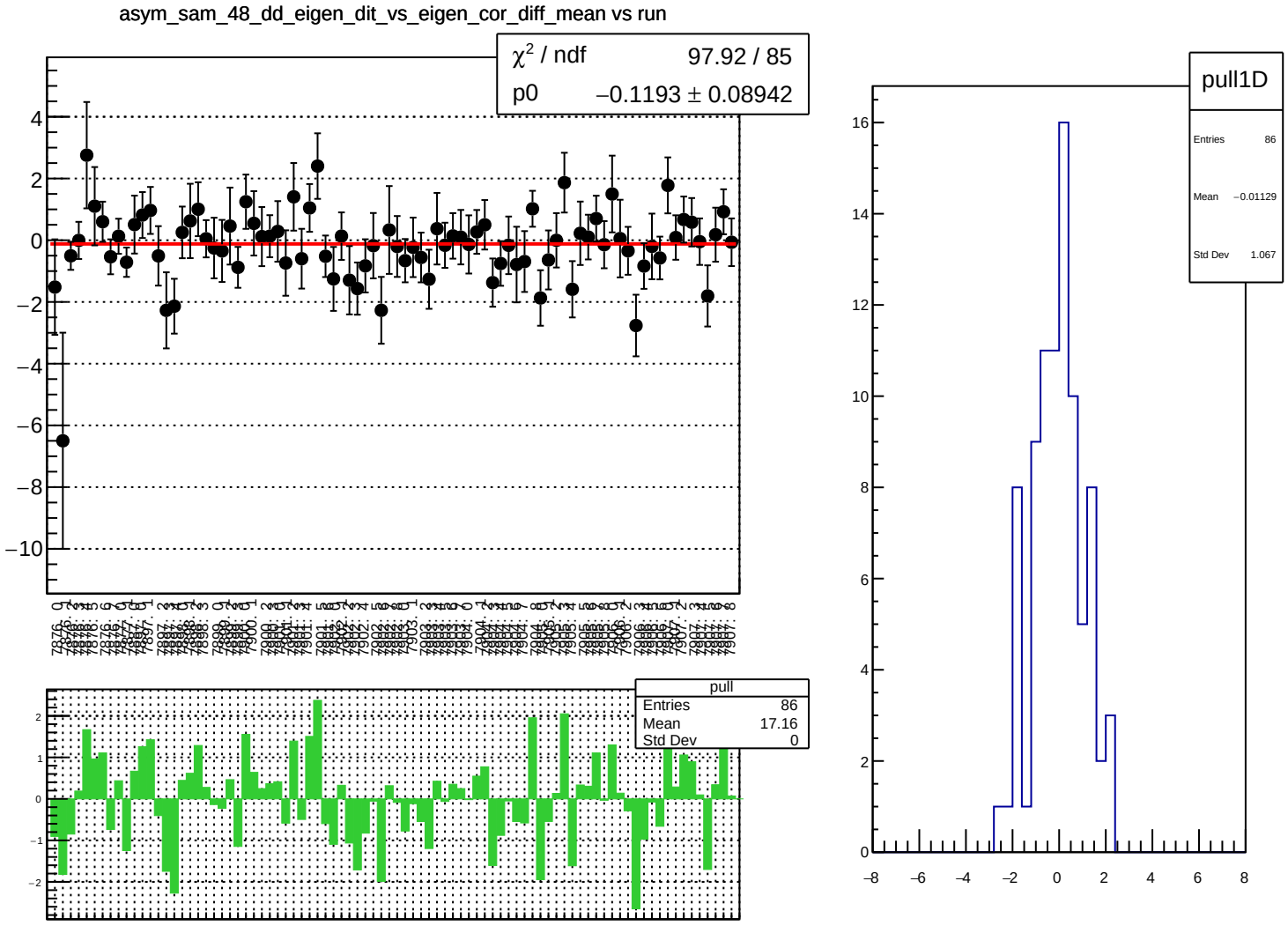

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.16 / 85
p0 −8.715e−07 ± 1.986e−06
pull
Entries 86
Mean −96.81
Std Dev 0
pull1D
Entries 86
Mean −0.005816
Std Dev 1.074

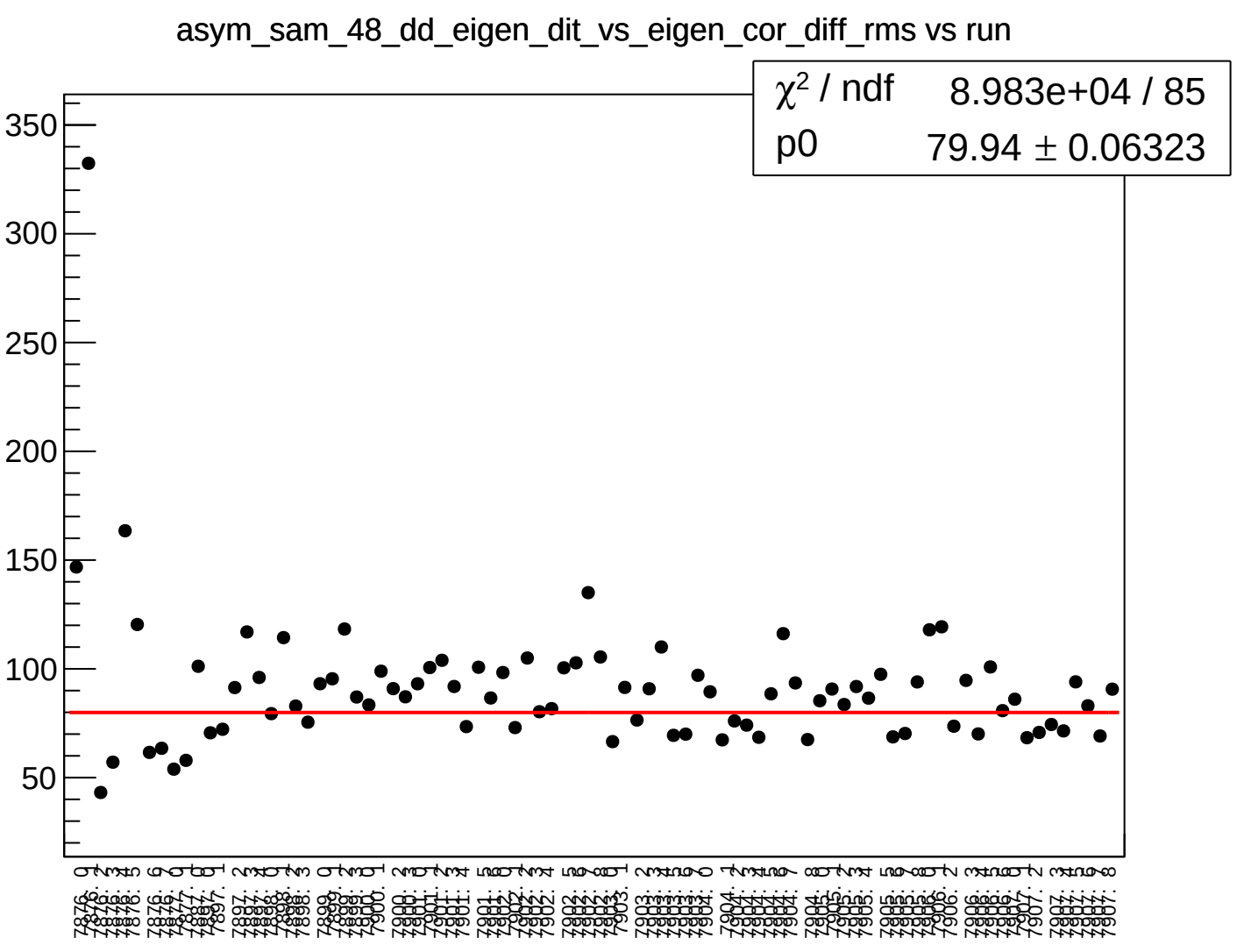

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.621e+05 / 85
p0 0.001677 ± 1.405e−06
0.01
0.008
0.006
0.004
0.002

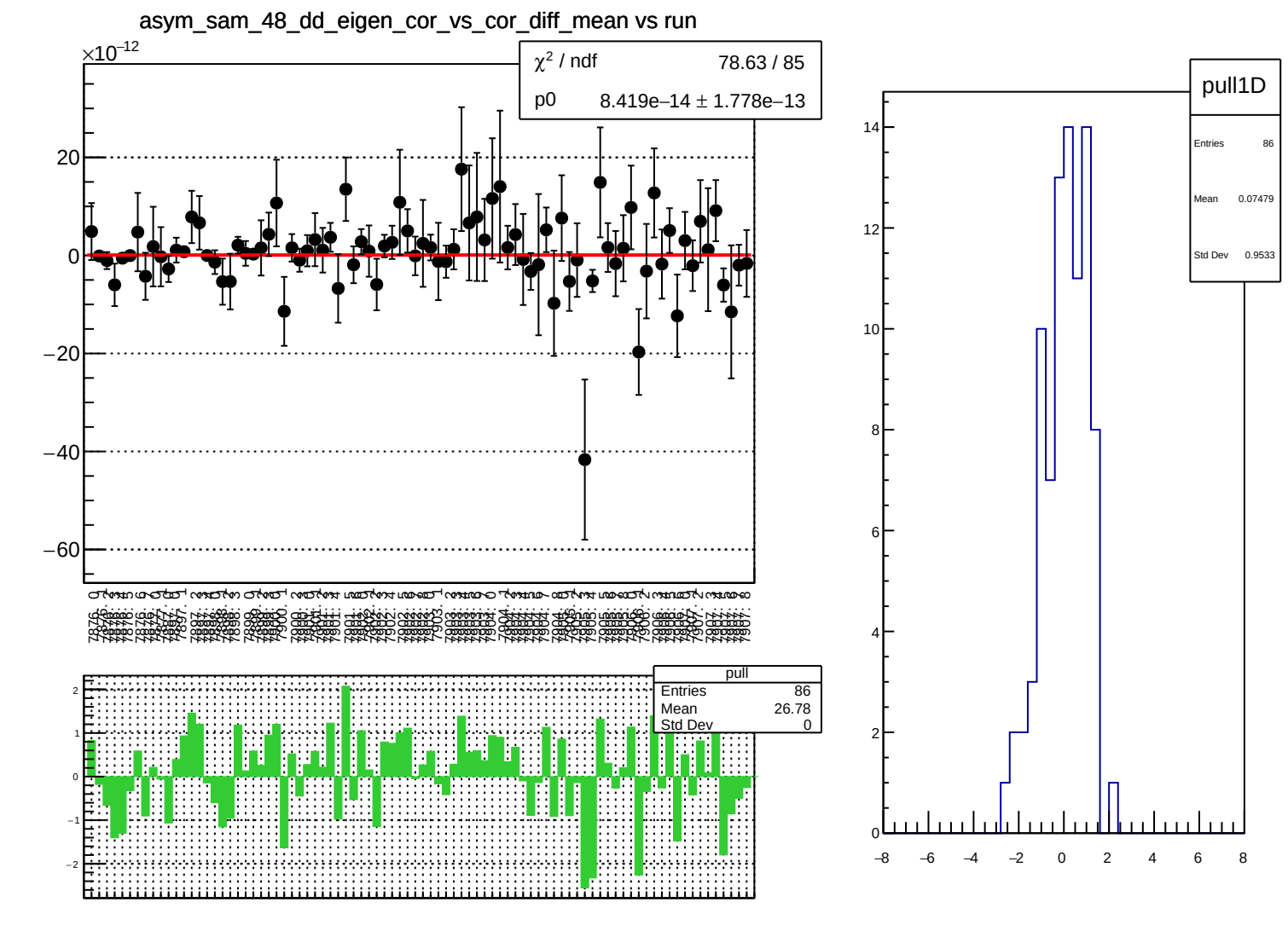

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.92 / 85
p0 −0.1193 ± 0.08942
pull
Entries 86
Mean 17.16
Std Dev 0

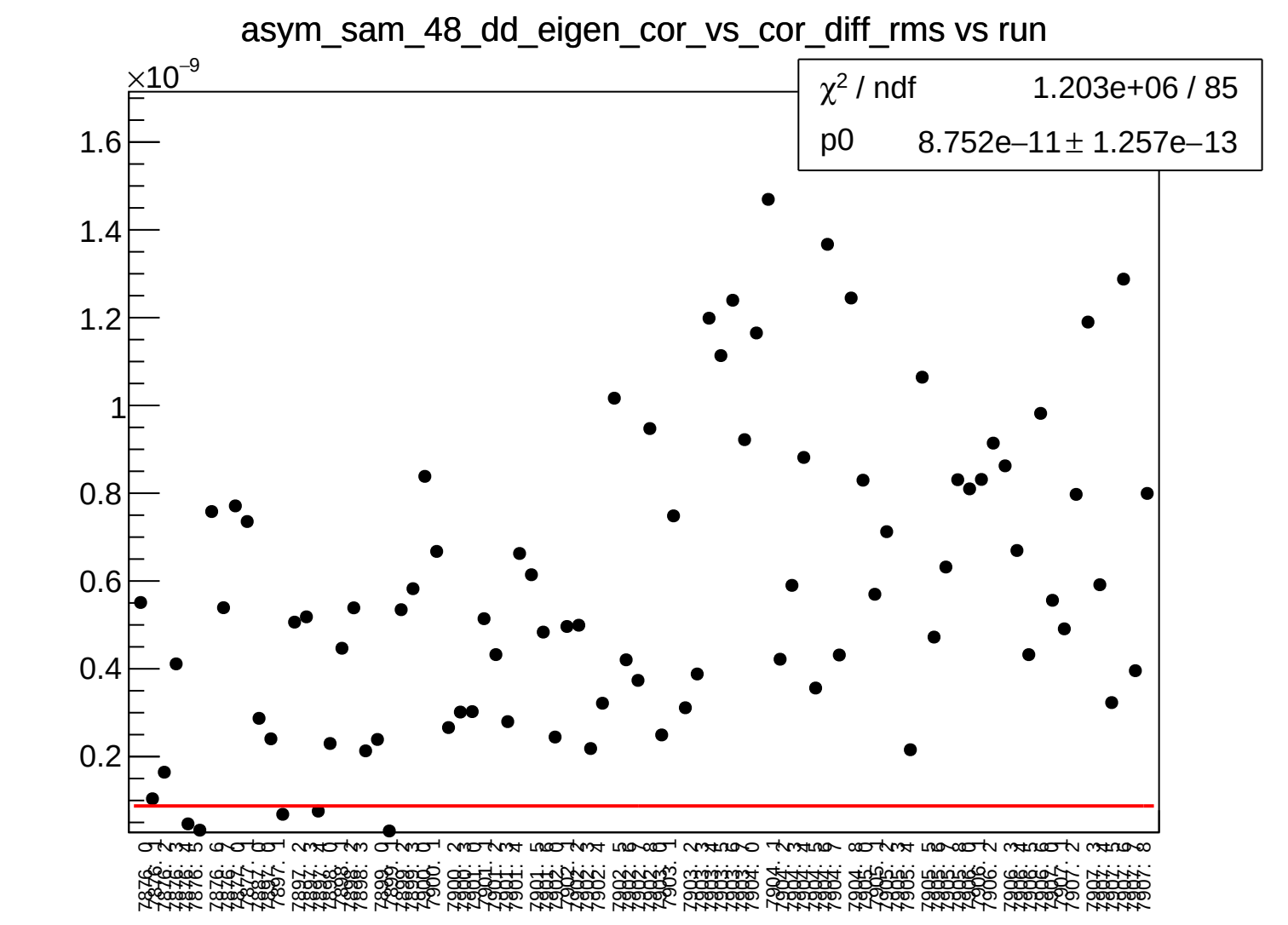

pull1D
Entries 86
Mean −0.01129
Std Dev 1.067

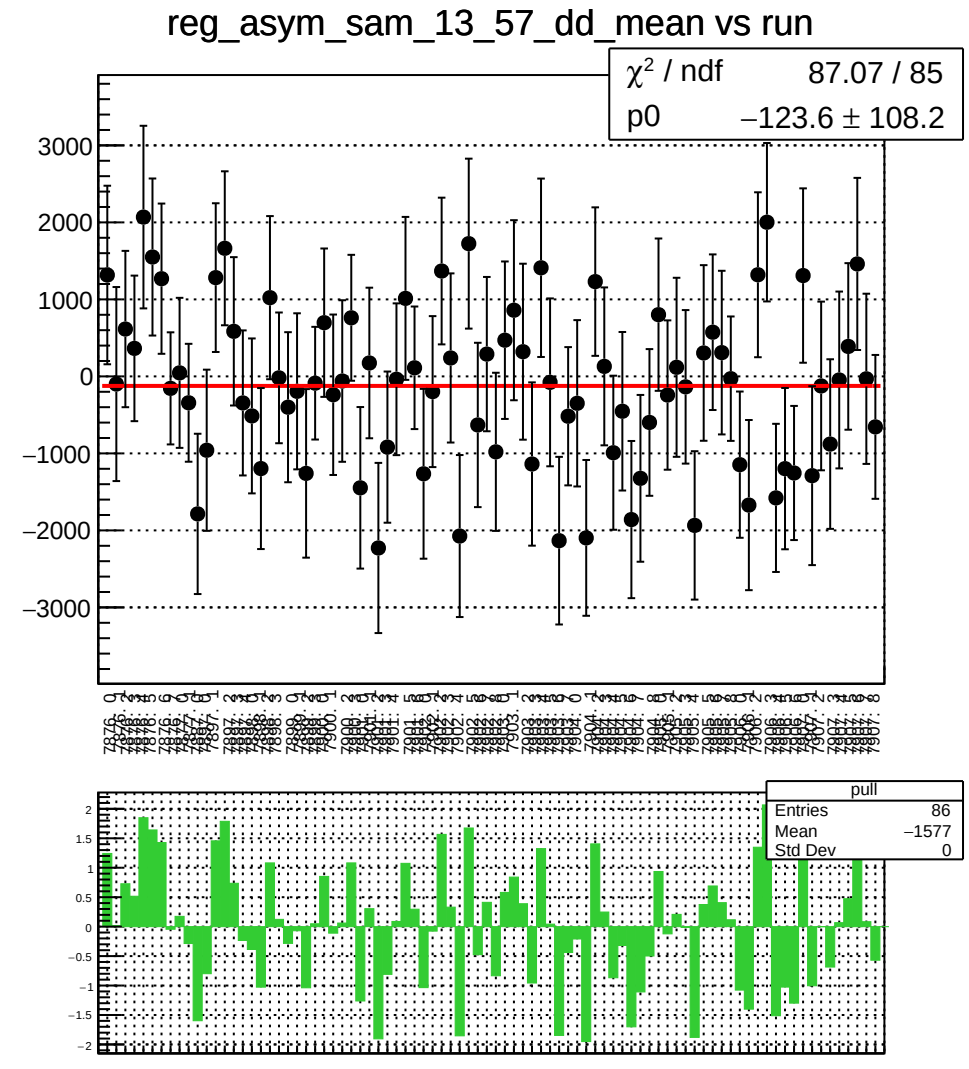

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.983e+04 / 85
p0 79.94 ± 0.06323
350
300
250
200
150
100
50

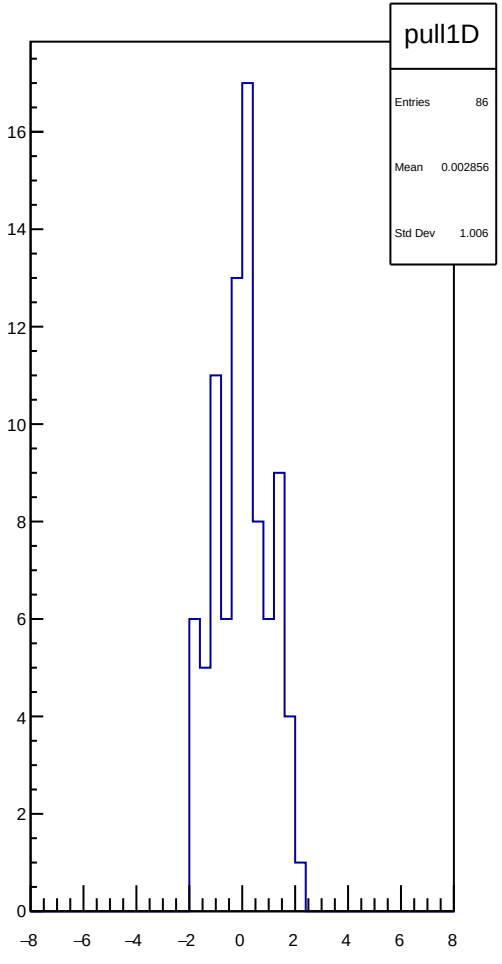

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.92 / 85
p0 −0.1193 ± 0.08942
pull
Entries 86
Mean 17.16
Std Dev 0
pull1D
Entries 86
Mean −0.01129
Std Dev 1.067

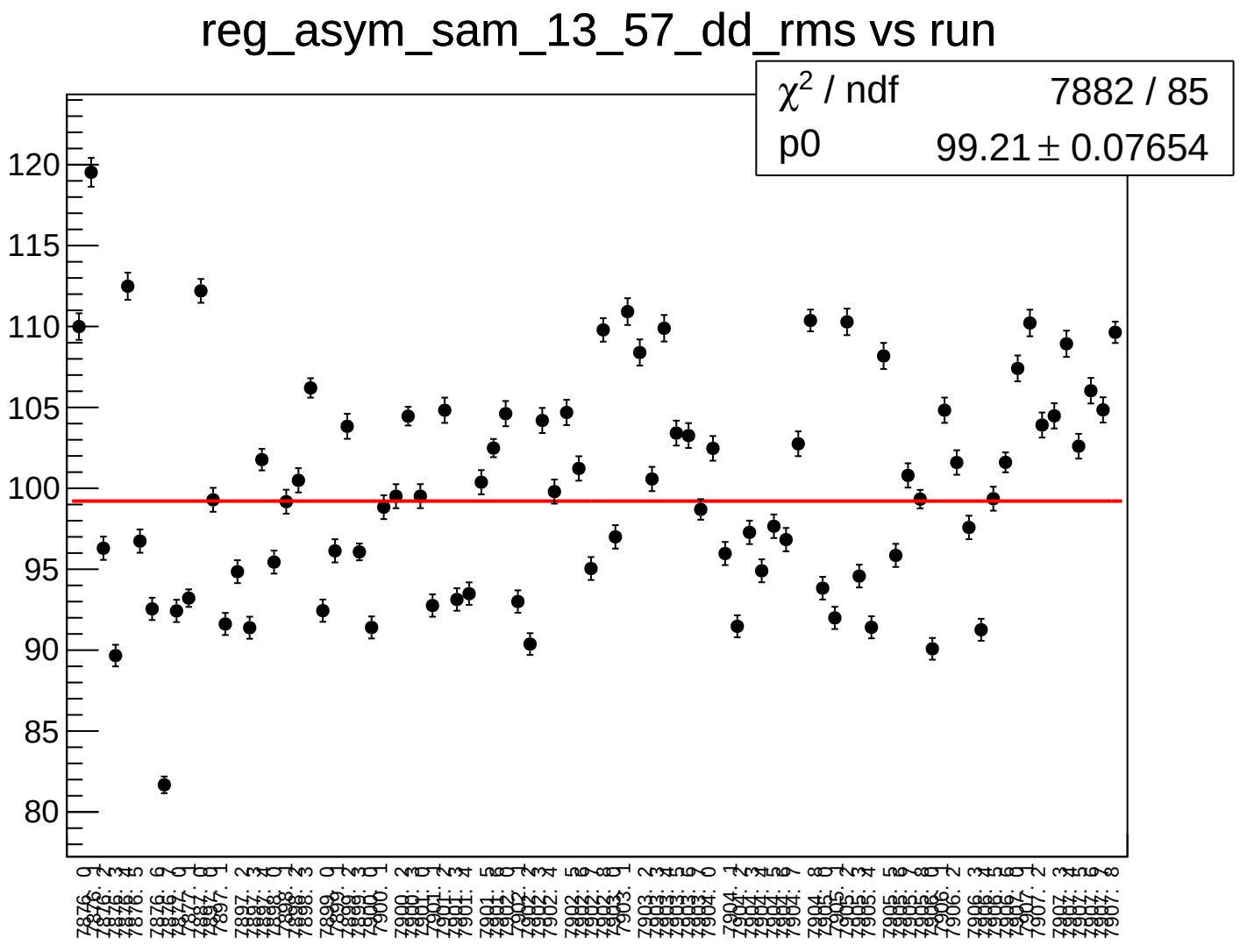

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.983e+04 / 85
p0 79.94 ± 0.06323
350
300
250
200
150
100
50

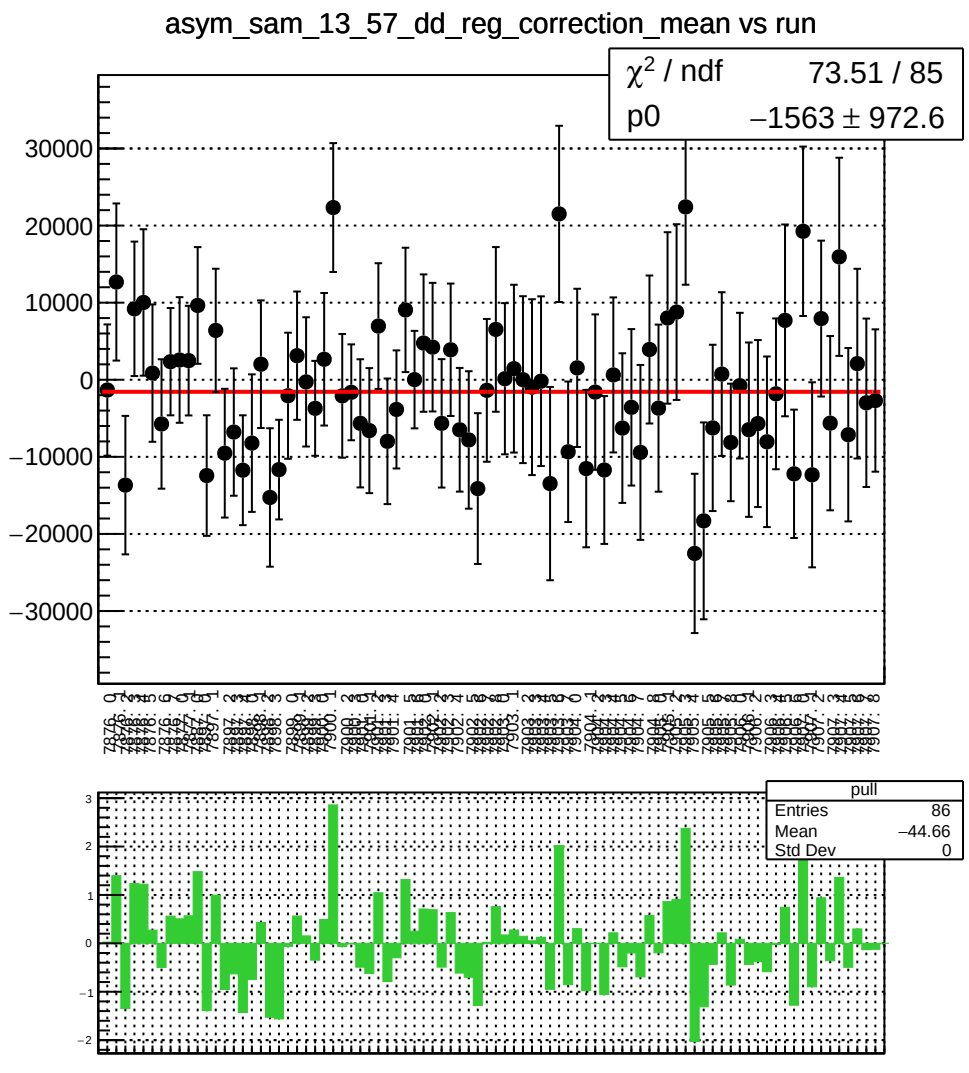

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.63 / 85
p0 8.419e−14 ± 1.778e−13
20
0
−20
−40
−60
pull
Entries 86
Mean 26.78
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.07479
Std Dev 0.9533
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

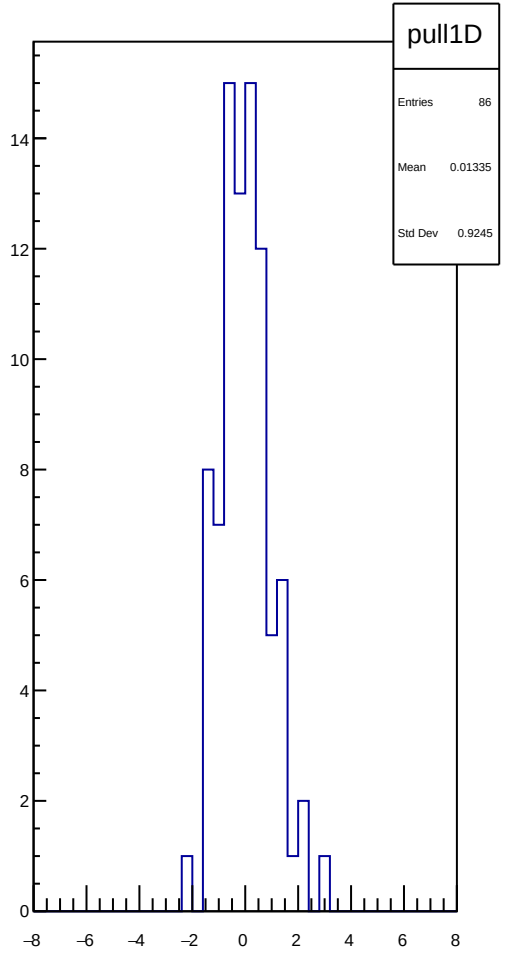

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.203e+06 / 85
p0 8.752e−11 ± 1.257e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

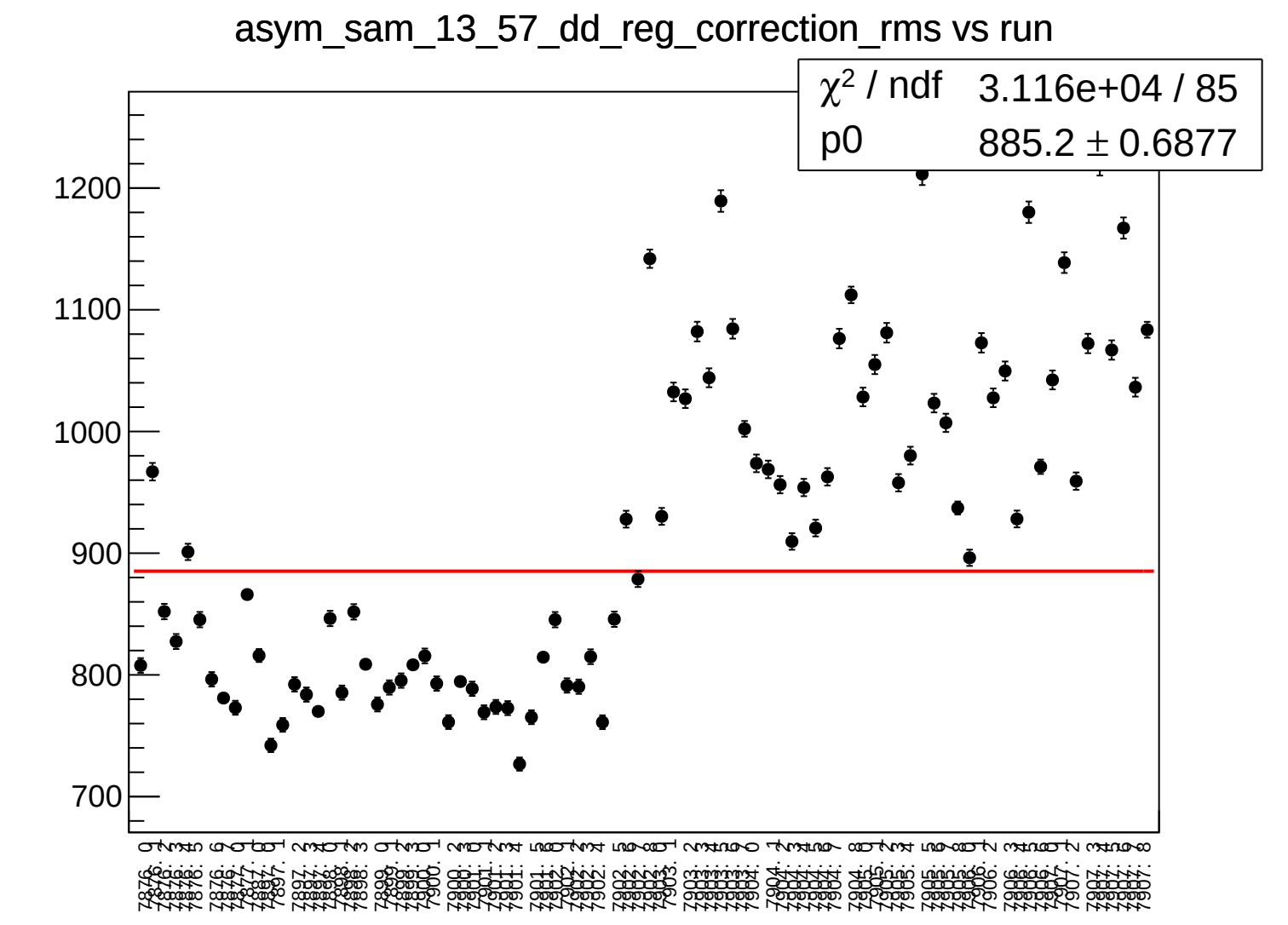

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.07 / 85
p0 −123.6 ± 108.2
pull
Entries 86
Mean −1577
Std Dev 0

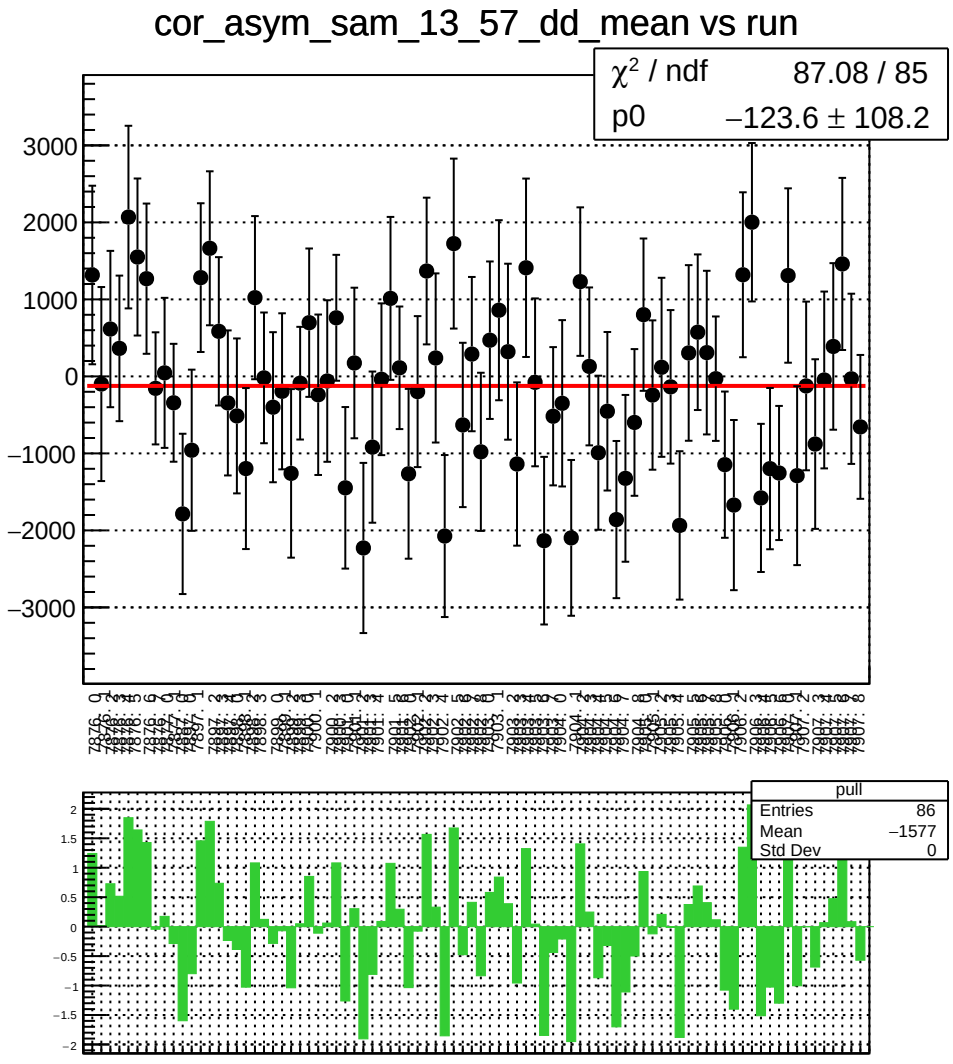

pull1D
Entries 86
Mean 0.002856
Std Dev 1.006

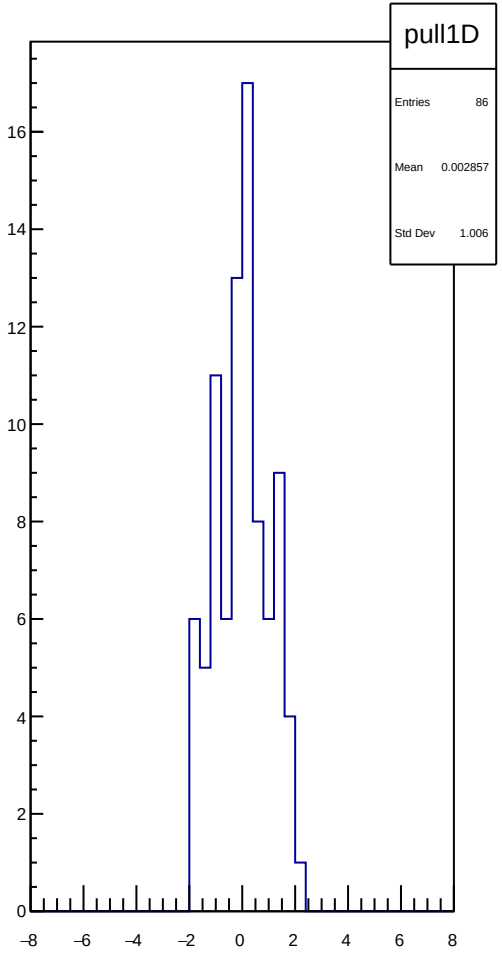

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 7882 / 85
p0 99.21 ± 0.07654
120
115
110
105
100
95
90
85
80

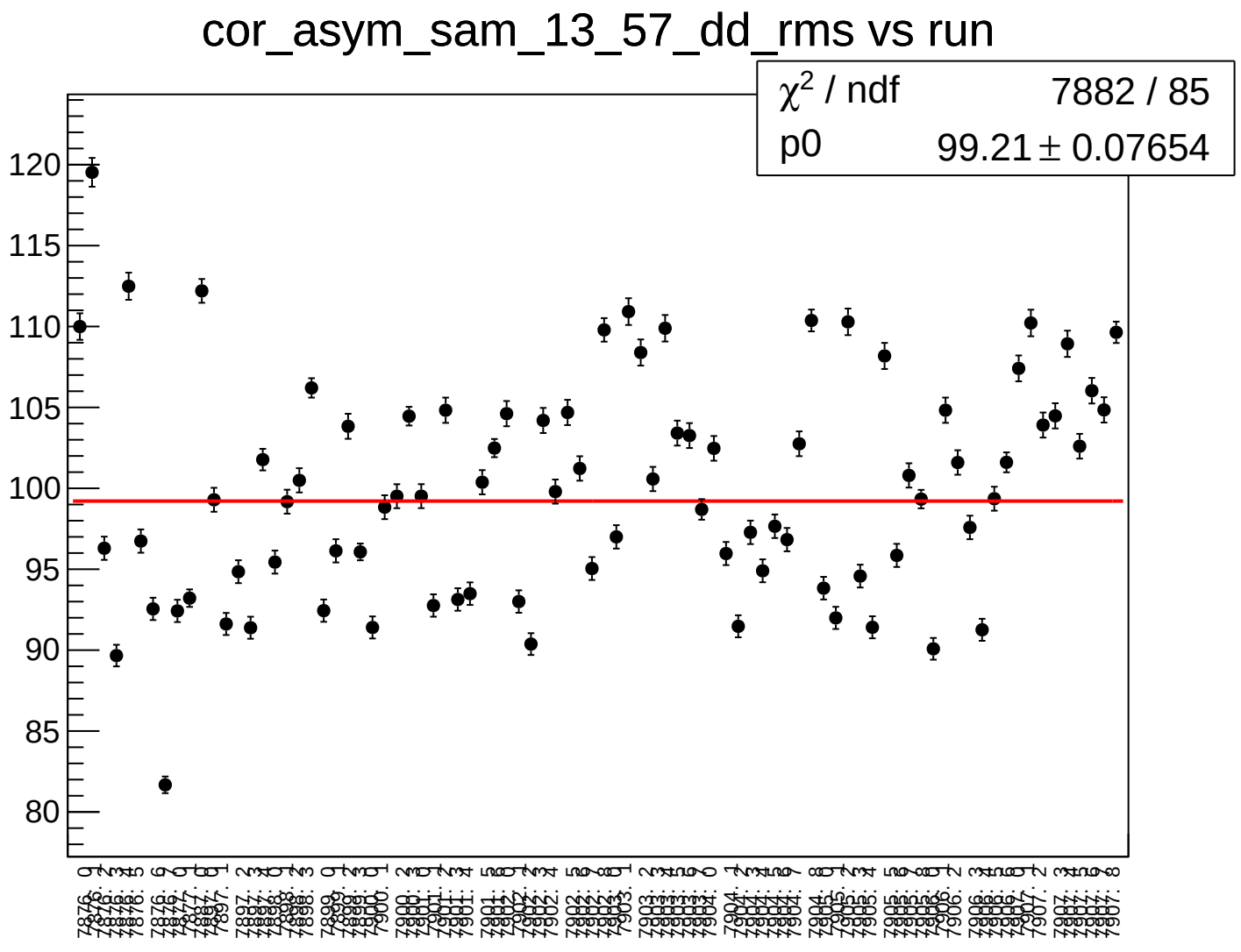

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 73.51 / 85
p0 −1563 ± 972.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −44.66
Std Dev 0
3
2
1
0
−1
−2

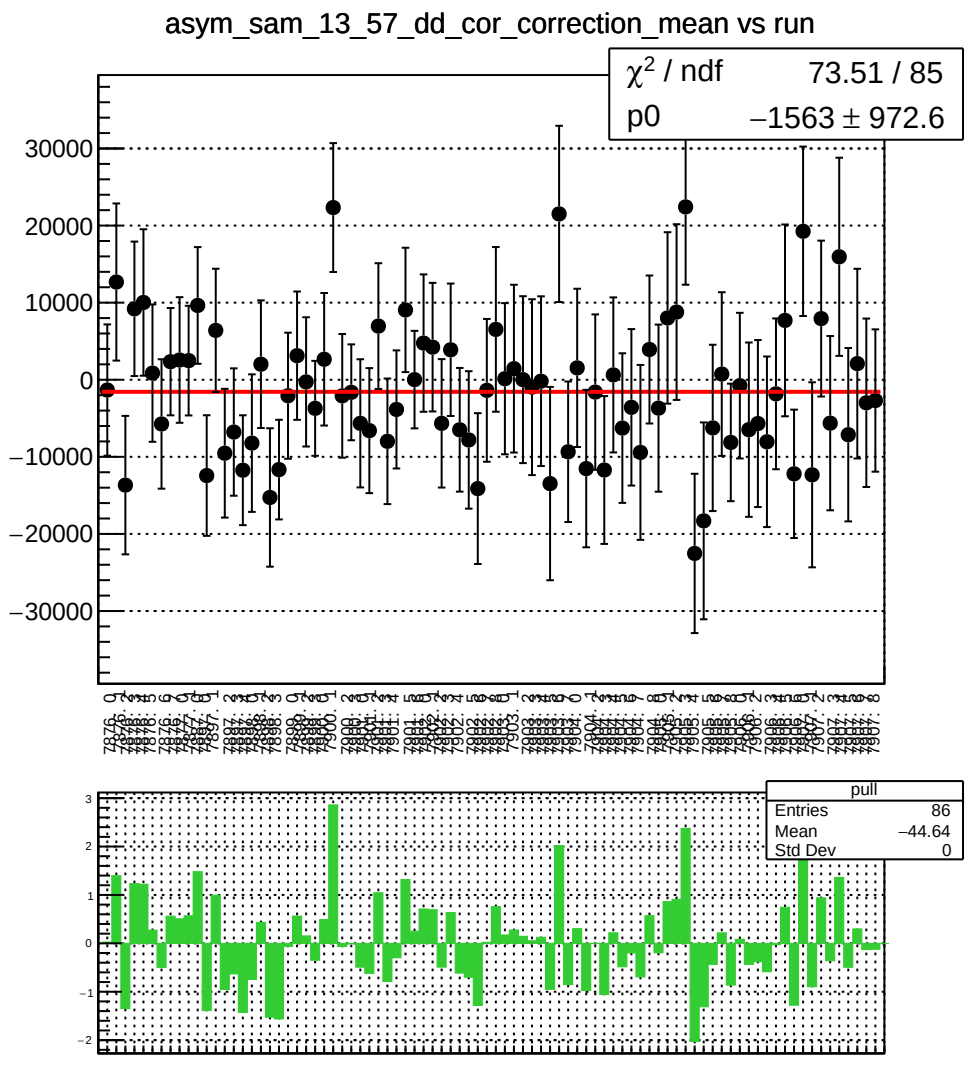

pull1D
Entries 86
Mean 0.01335
Std Dev 0.9245
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

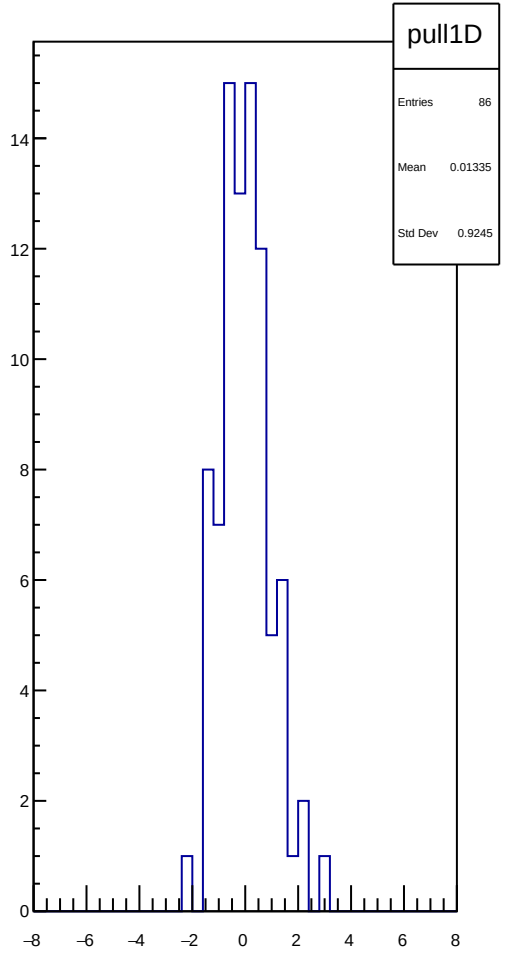

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 3.116e+04 / 85
p0 885.2 ± 0.6877
1200
1100
1000
900
800
700

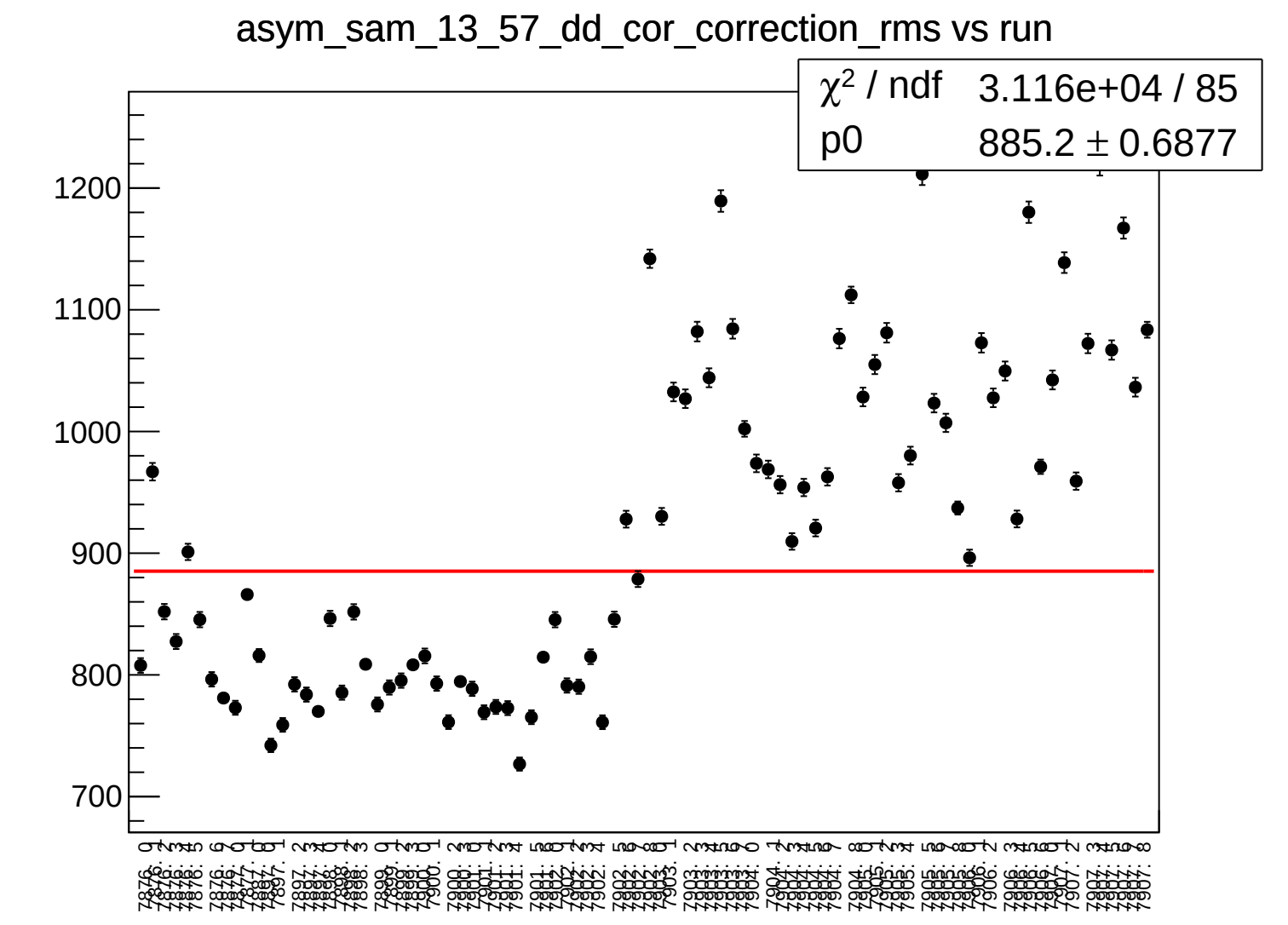

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.08 / 85
p0 −123.6 ± 108.2
pull
Entries 86
Mean −1577
Std Dev 0

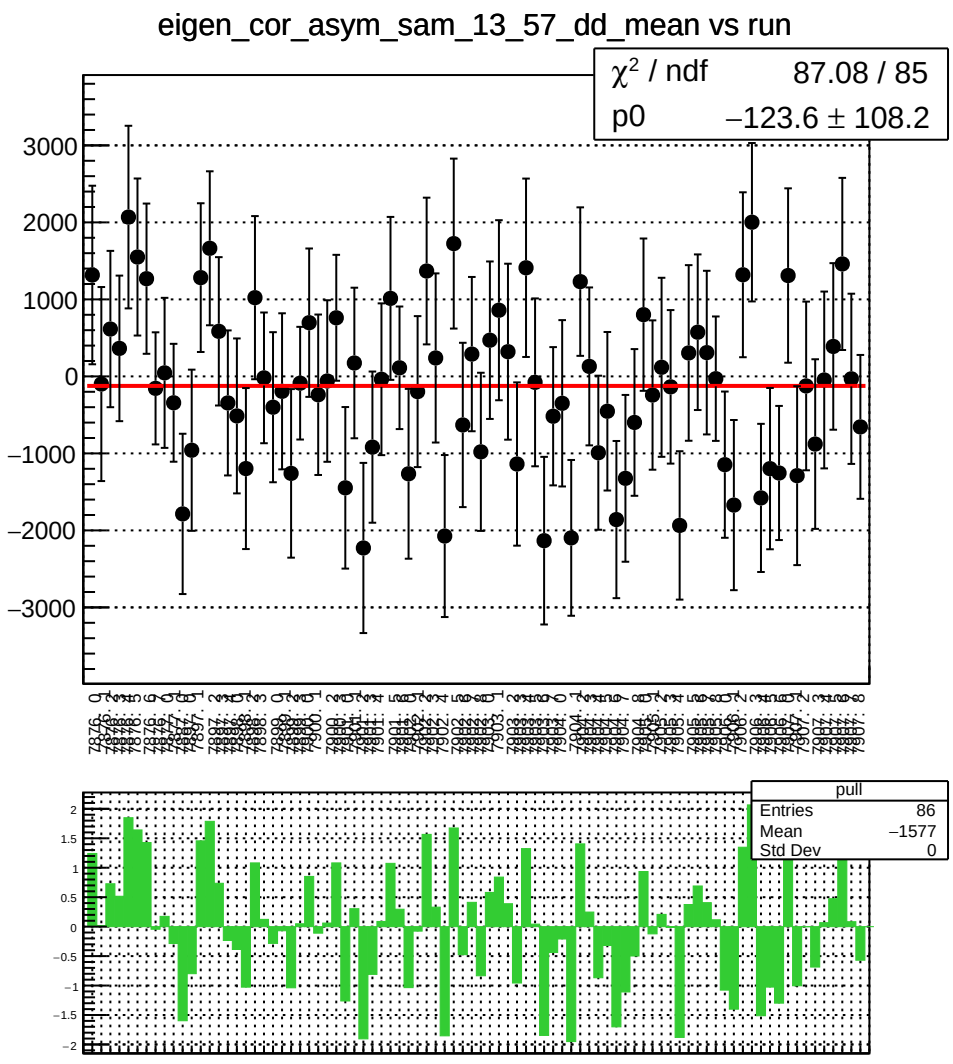

pull1D
Entries 86
Mean 0.002857
Std Dev 1.006

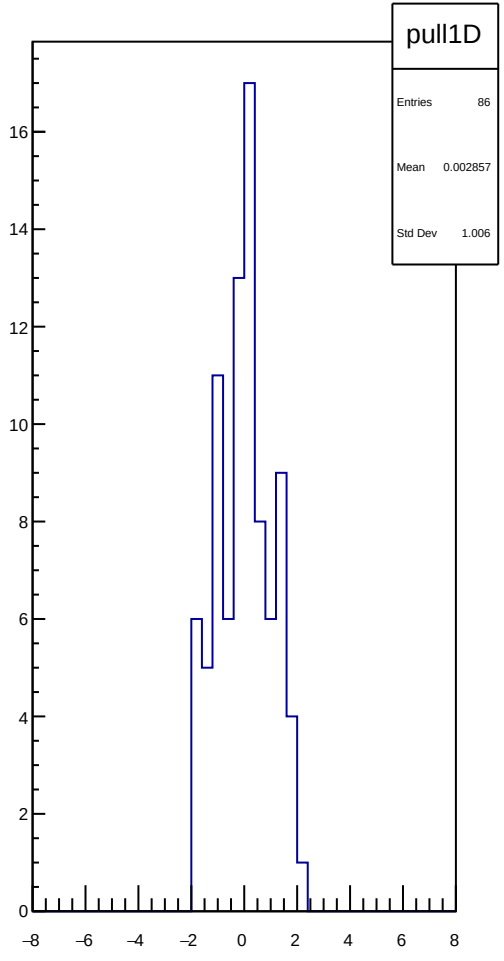

cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 7882 / 85
p0 99.21 ± 0.07654
120
115
110
105
100
95
90
85
80

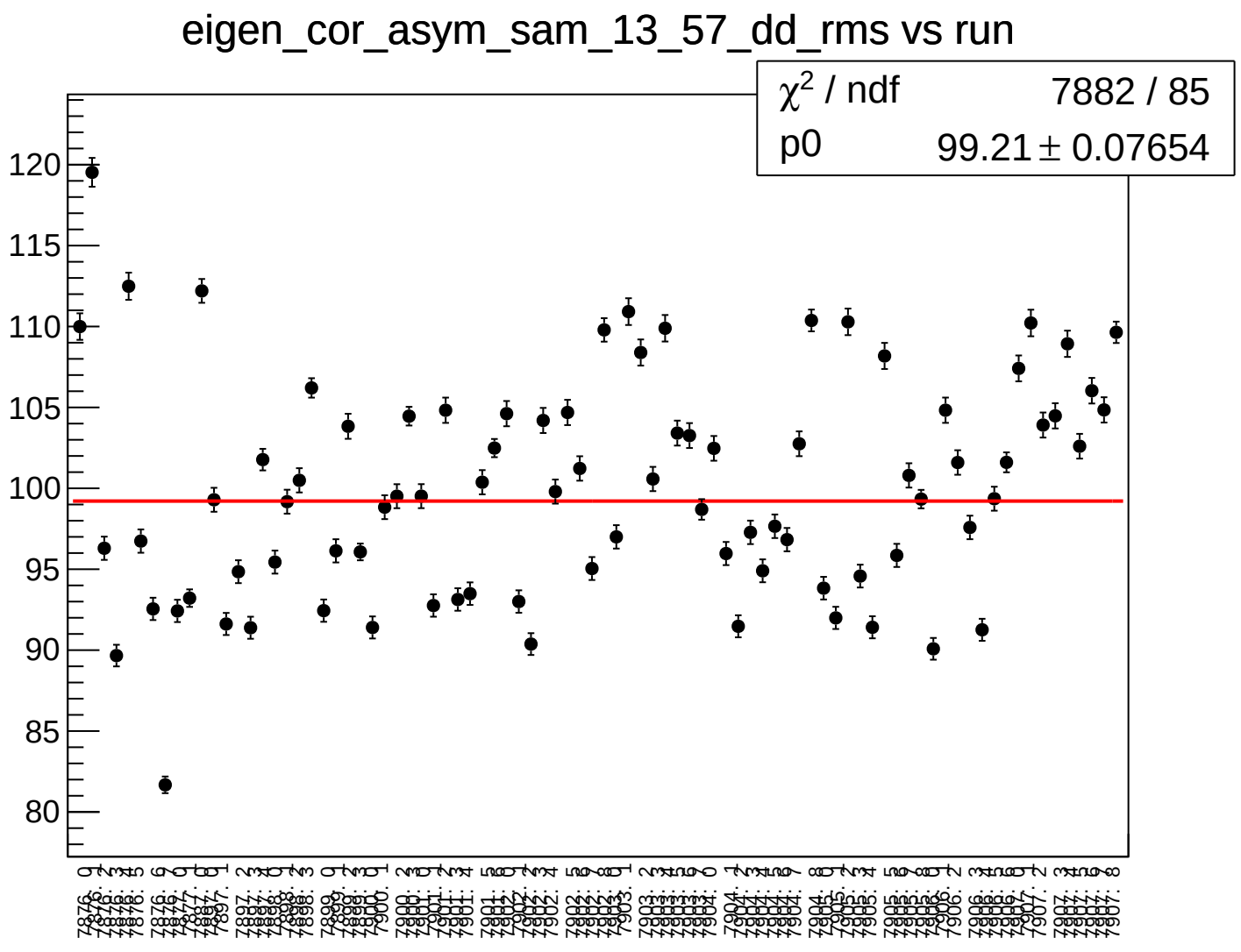

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 73.51 / 85
p0 −1563 ± 972.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −44.64
Std Dev 0
3
2
1
0
−1
−2

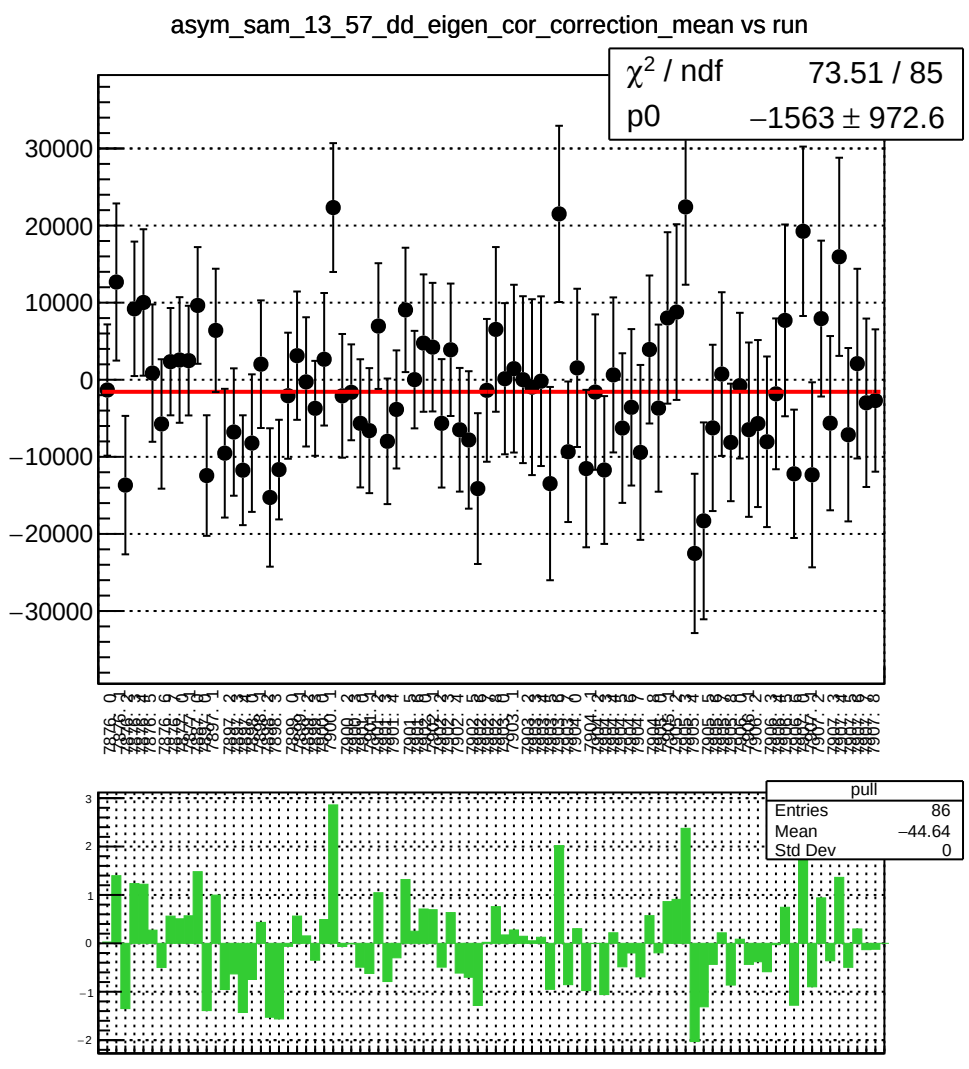

pull1D
Entries 86
Mean 0.01335
Std Dev 0.9245
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

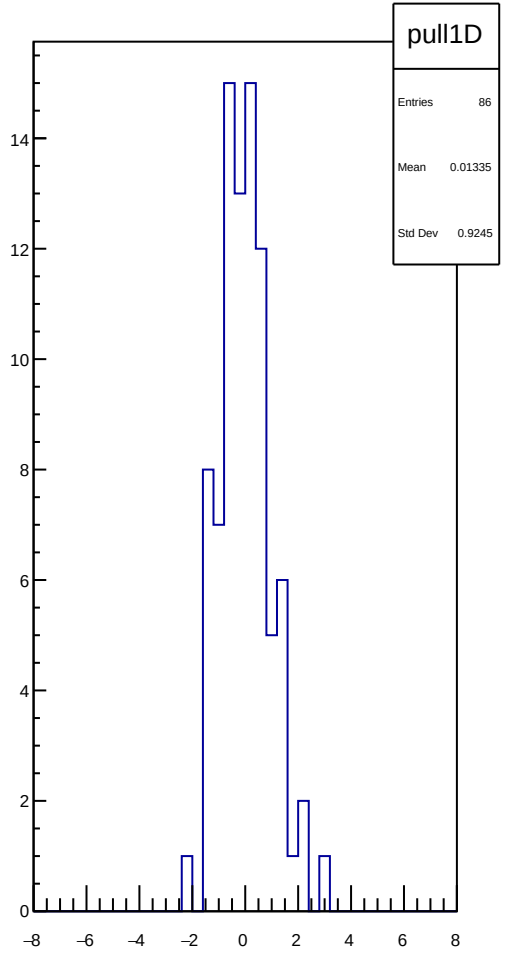

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 3.116e+04 / 85
p0 885.2 ± 0.6877
1200
1100
1000
900
800
700

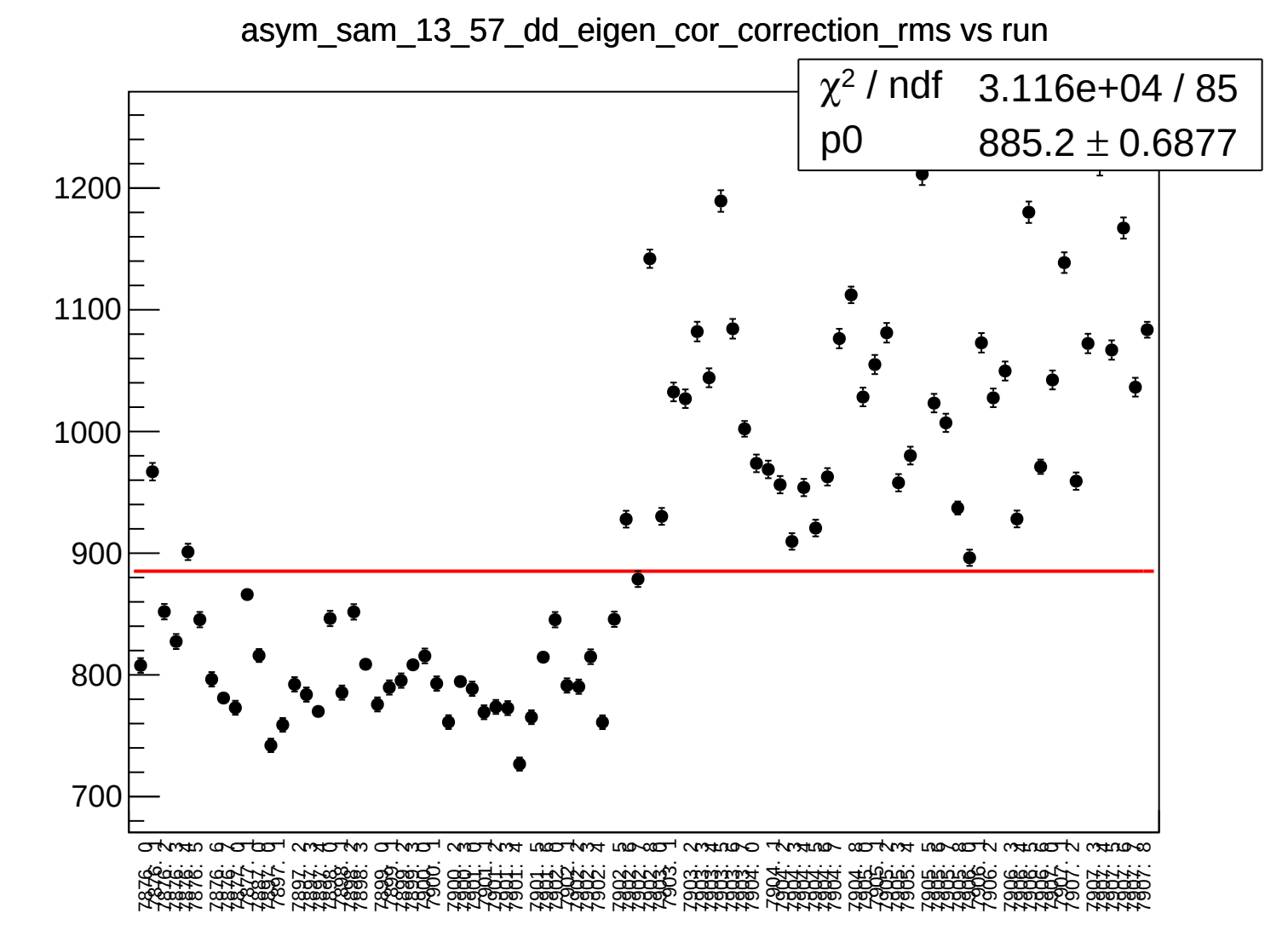

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.08 / 85
p0 −123.6 ± 108.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −1577
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

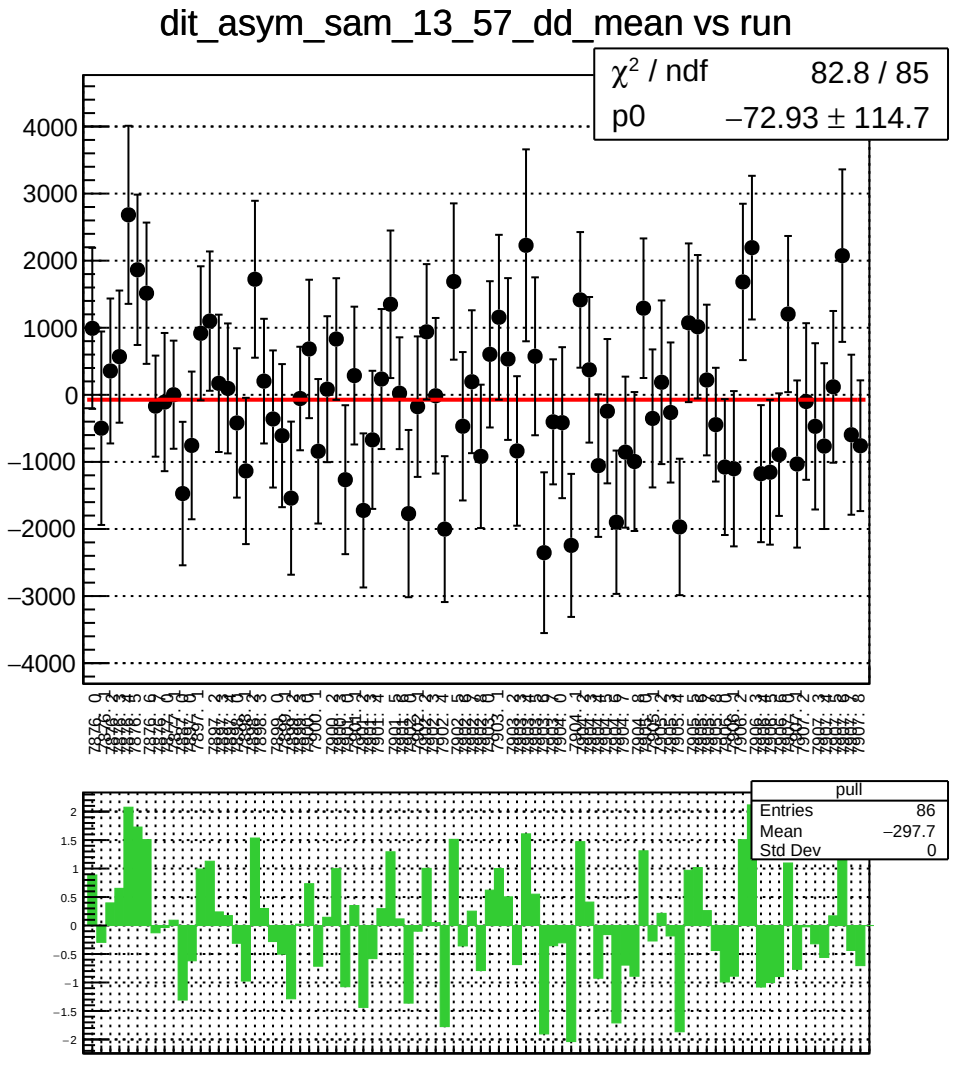

pull1D
Entries 86
Mean 0.002857
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

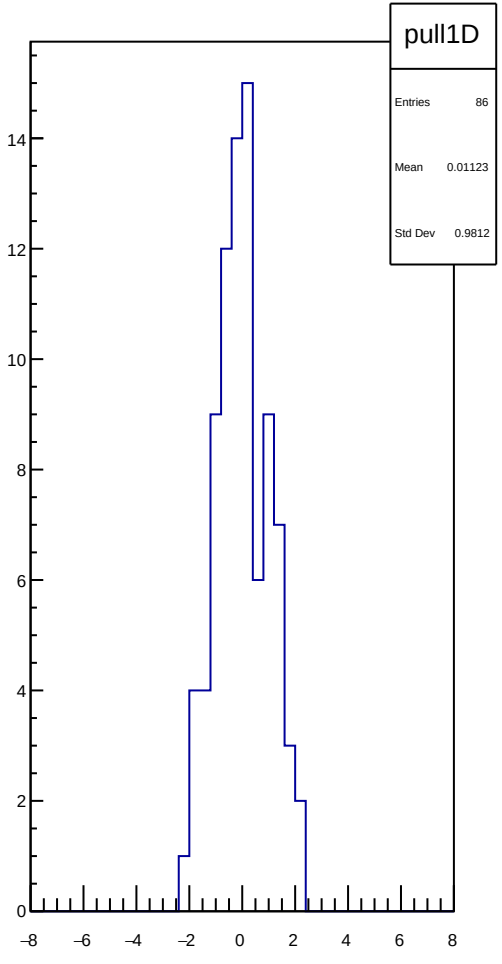

eigen_cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 7882 / 85
p0 99.21 ± 0.07654
120
115
110
105
100
95
90
85
80

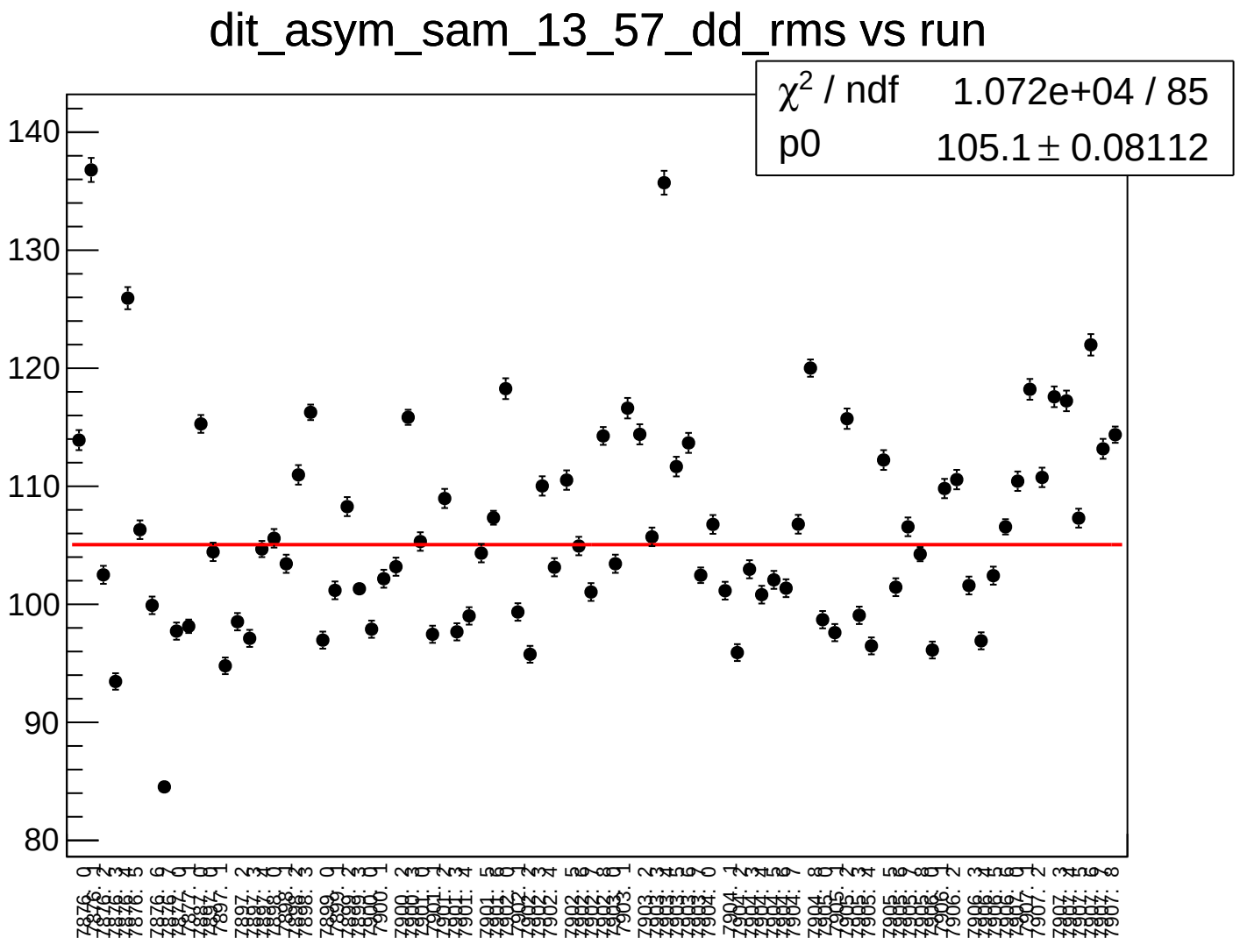

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.51 / 85
p0 −1563 ± 972.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −44.64
Std Dev 0
3
2
1
0
−1
−2

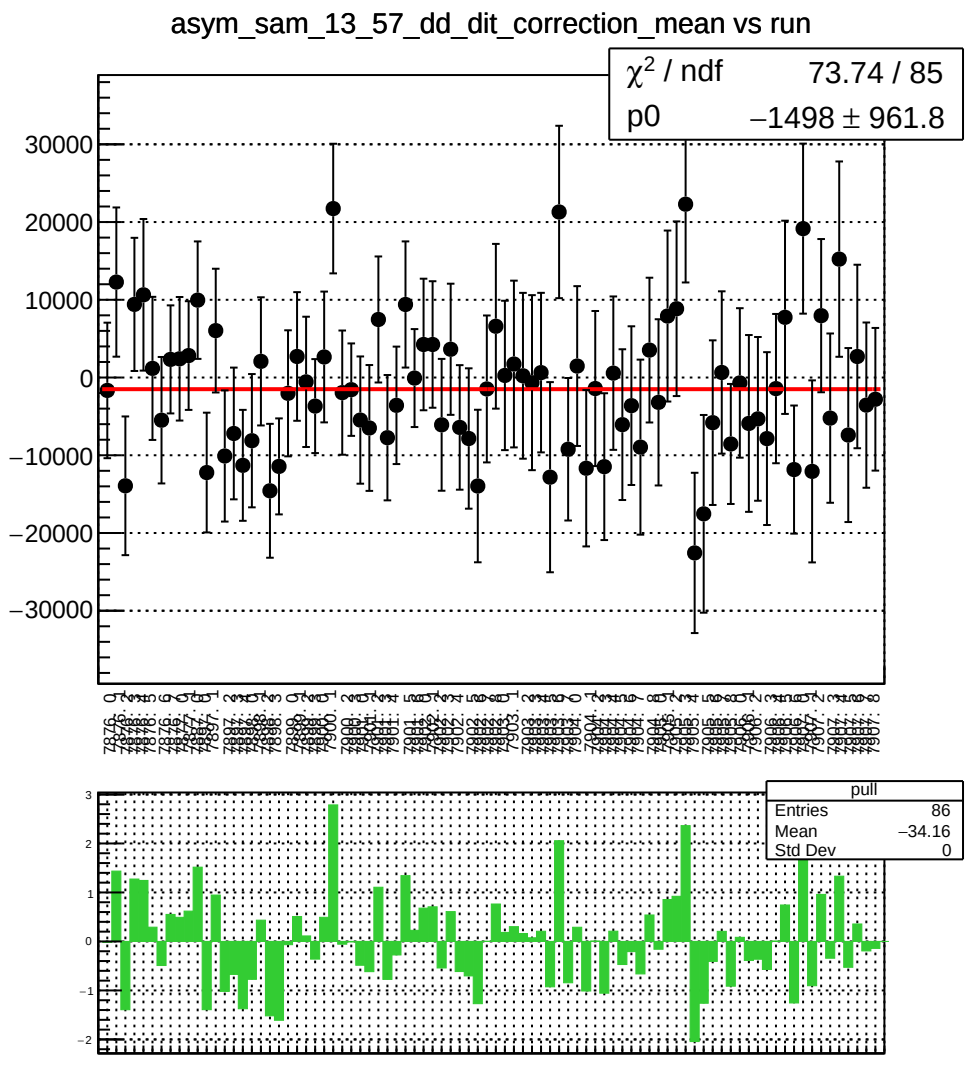

pull1D
Entries 86
Mean 0.01335
Std Dev 0.9245
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

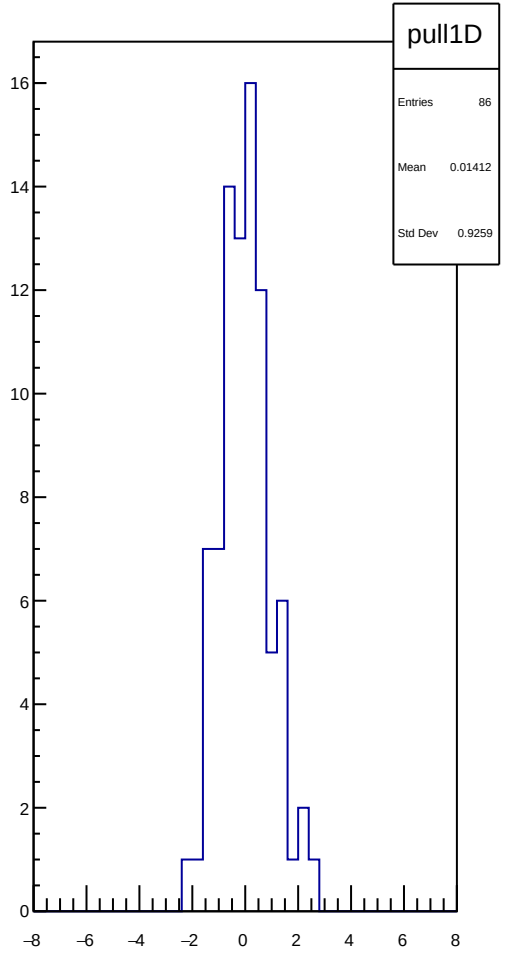

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.116e+04 / 85
p0 885.2 ± 0.6877
1200
1100
1000
900
800
700

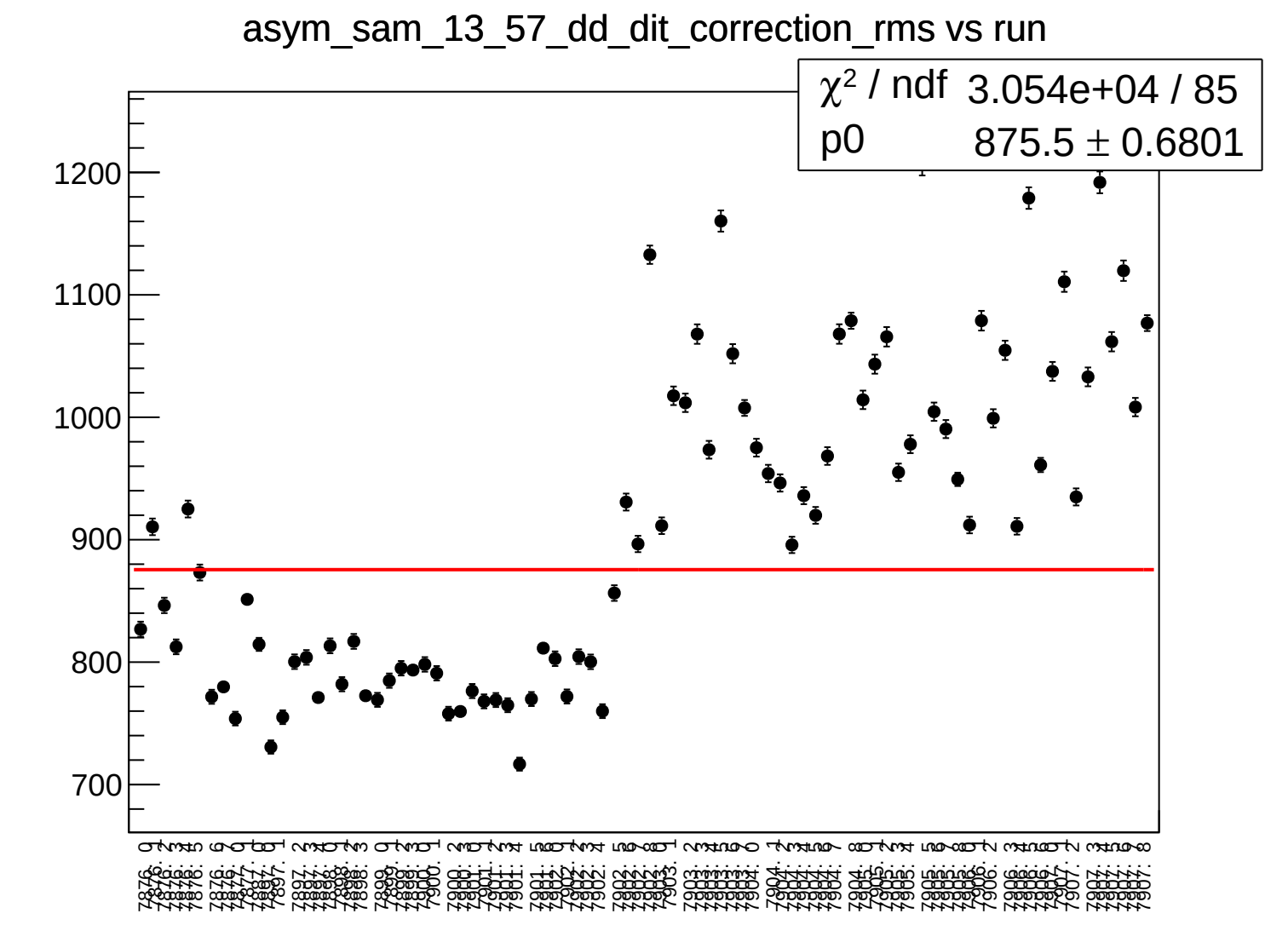

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 82.8 / 85
p0 −72.93 ± 114.7
pull
Entries 86
Mean −297.7
Std Dev 0

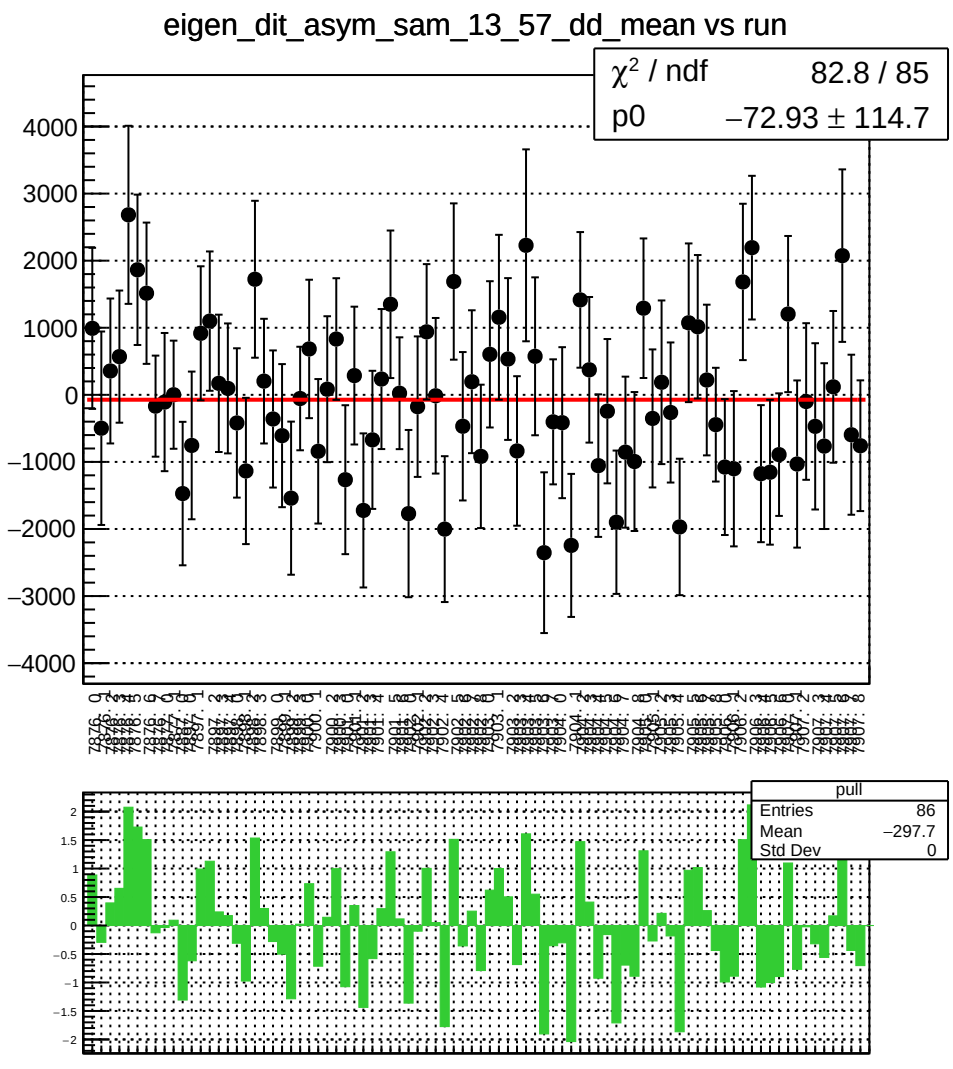

pull1D
Entries 86
Mean 0.01123
Std Dev 0.9812

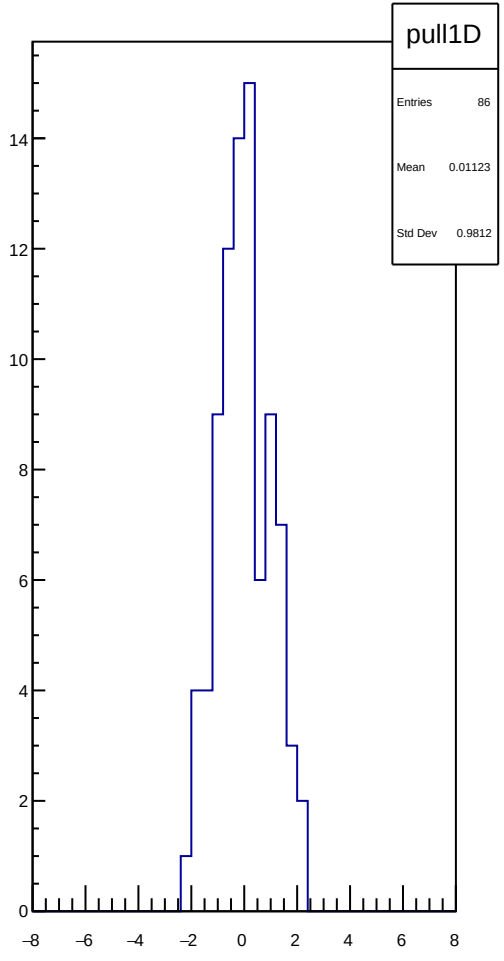

dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1.072e+04 / 85
p0 105.1 ± 0.08112
140
130
120
110
100
90
80

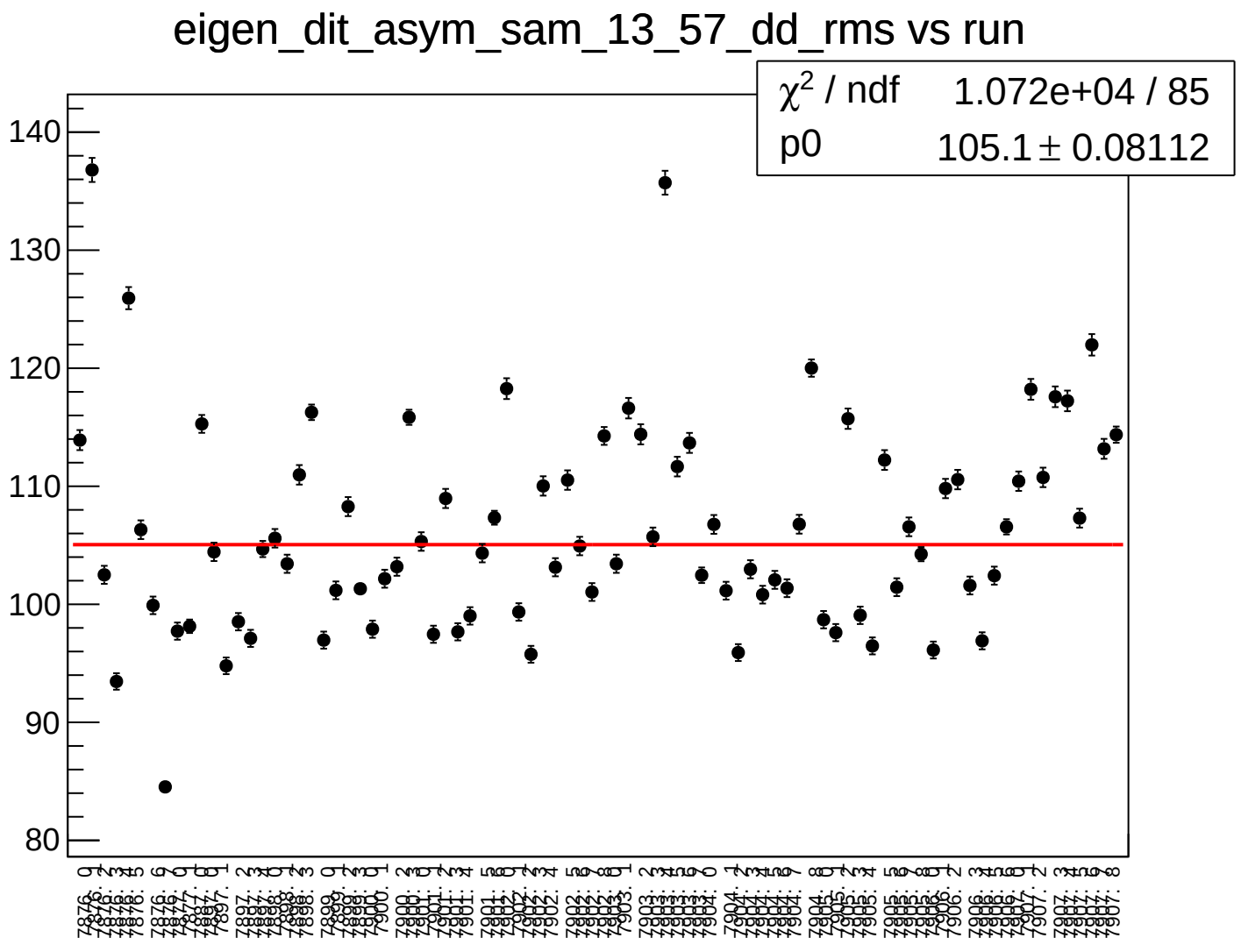

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 73.74 / 85
p0 −1498 ± 961.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −34.16
Std Dev 0
3
2
1
0
−1
−2

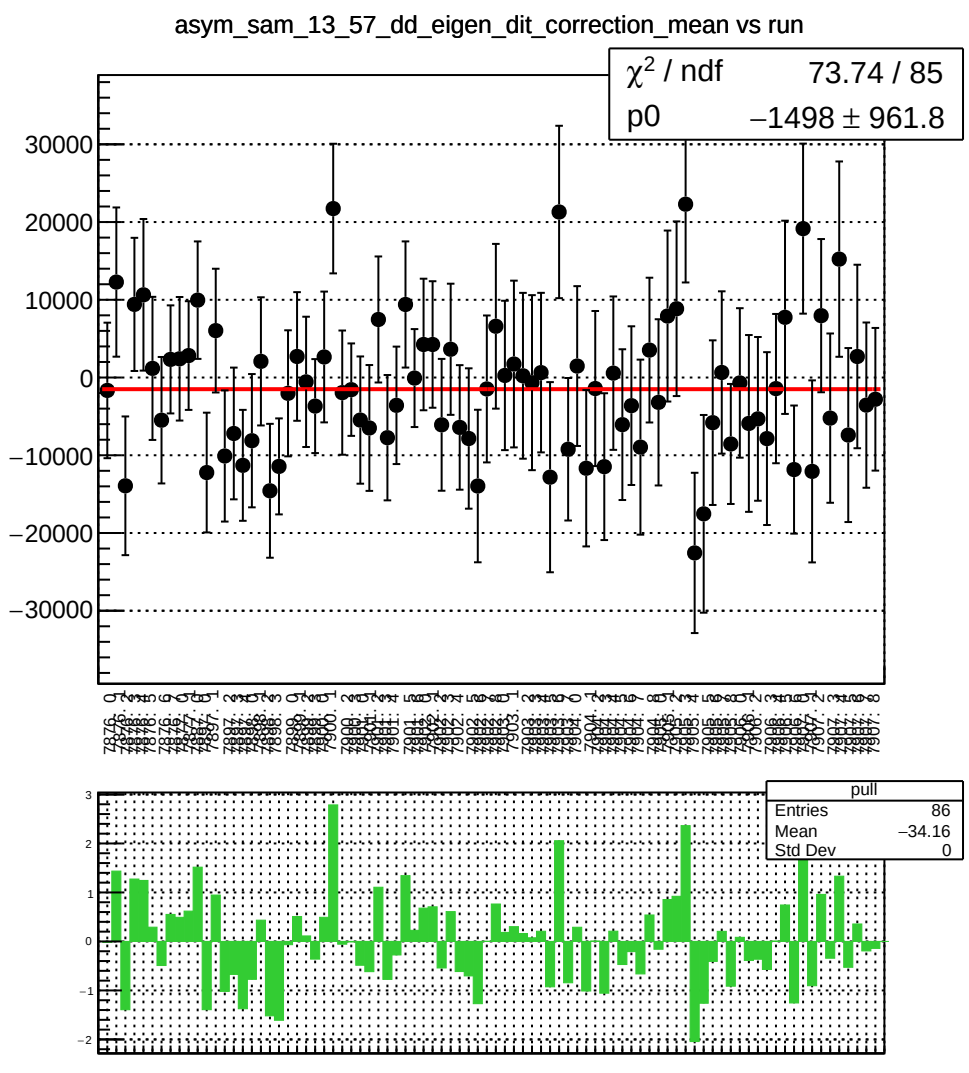

pull1D
Entries 86
Mean 0.01412
Std Dev 0.9259
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

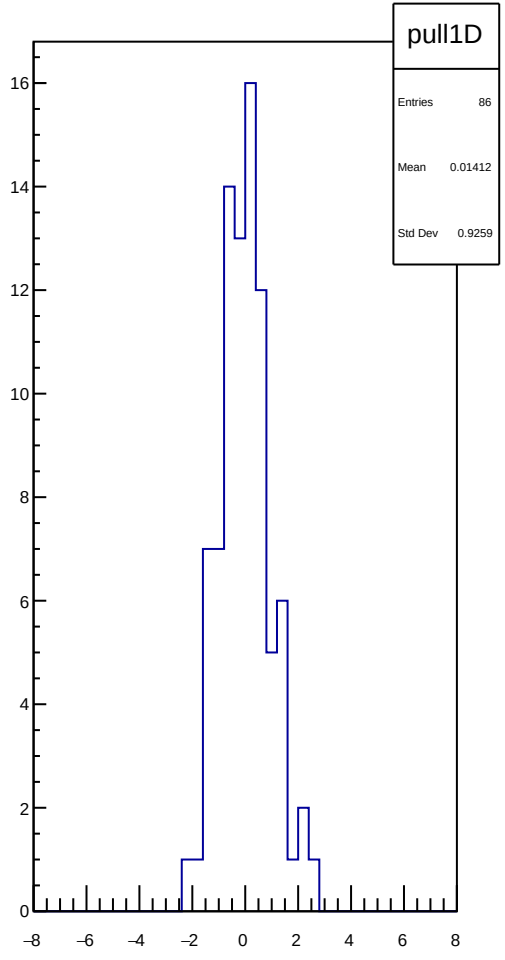

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 3.054e+04 / 85
p0 875.5 ± 0.6801
1200
1100
1000
900
800
700

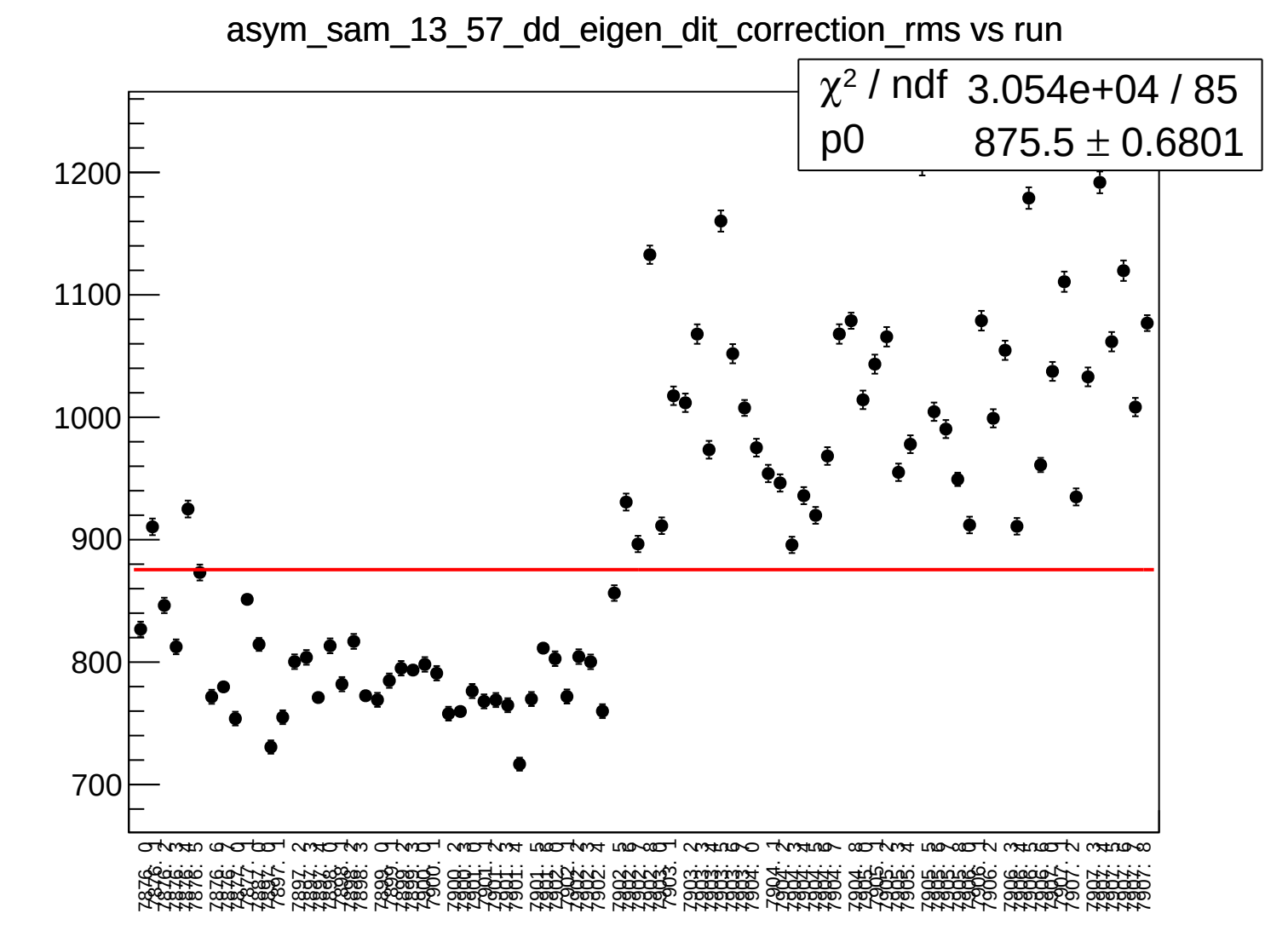

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 82.8 / 85
p0 −72.93 ± 114.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean −297.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

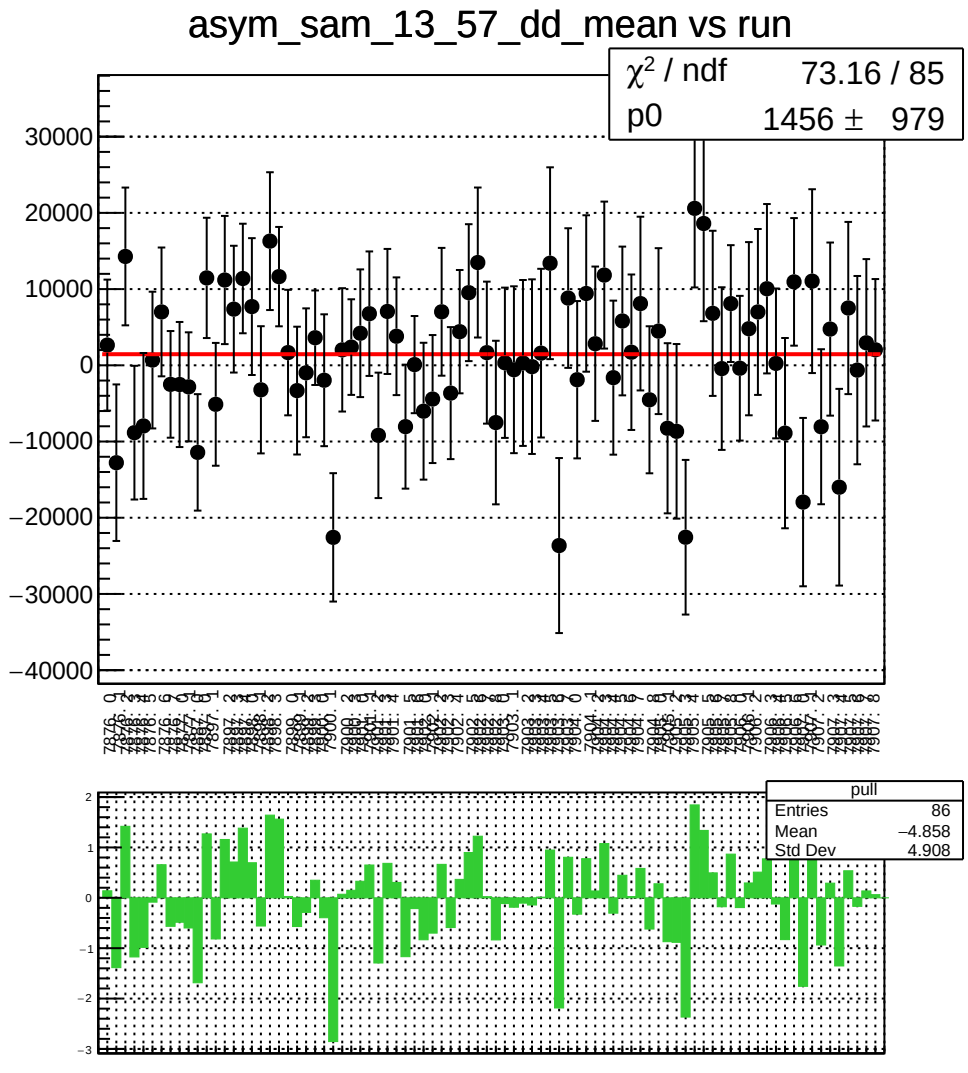

pull1D
Entries 86
Mean 0.01123
Std Dev 0.9812
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

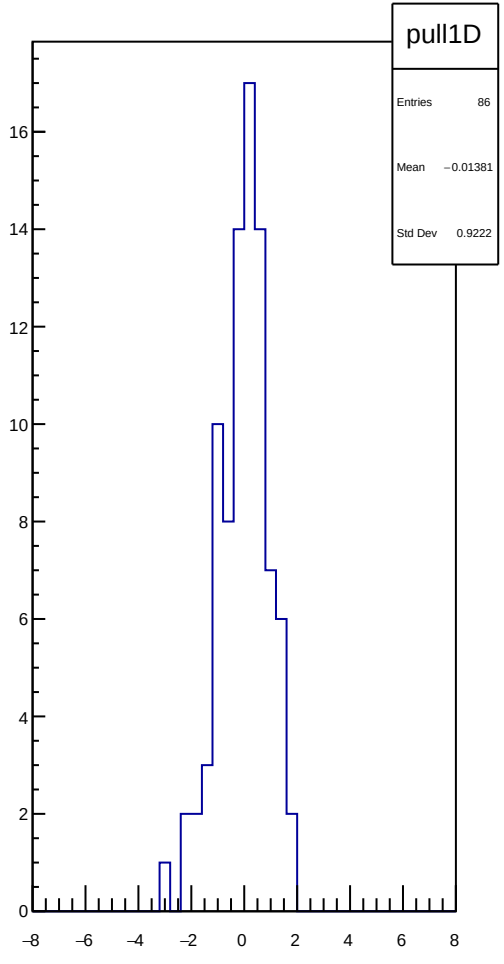

eigen_dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1.072e+04 / 85
p0 105.1 ± 0.08112
140
130
120
110
100
90
80

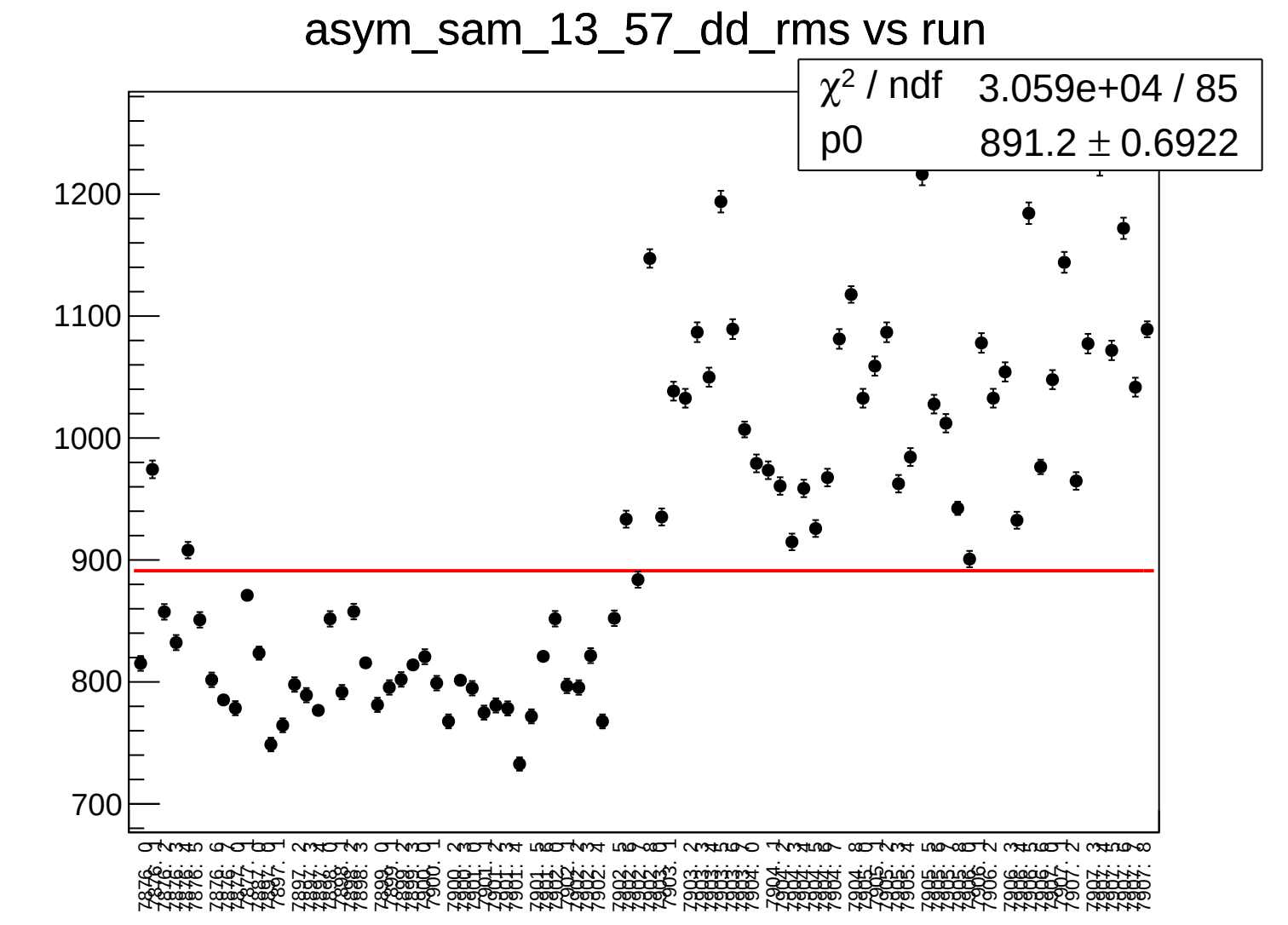

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.74 / 85
p0 −1498 ± 961.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −34.16
Std Dev 0
3
2
1
0
−1
−2

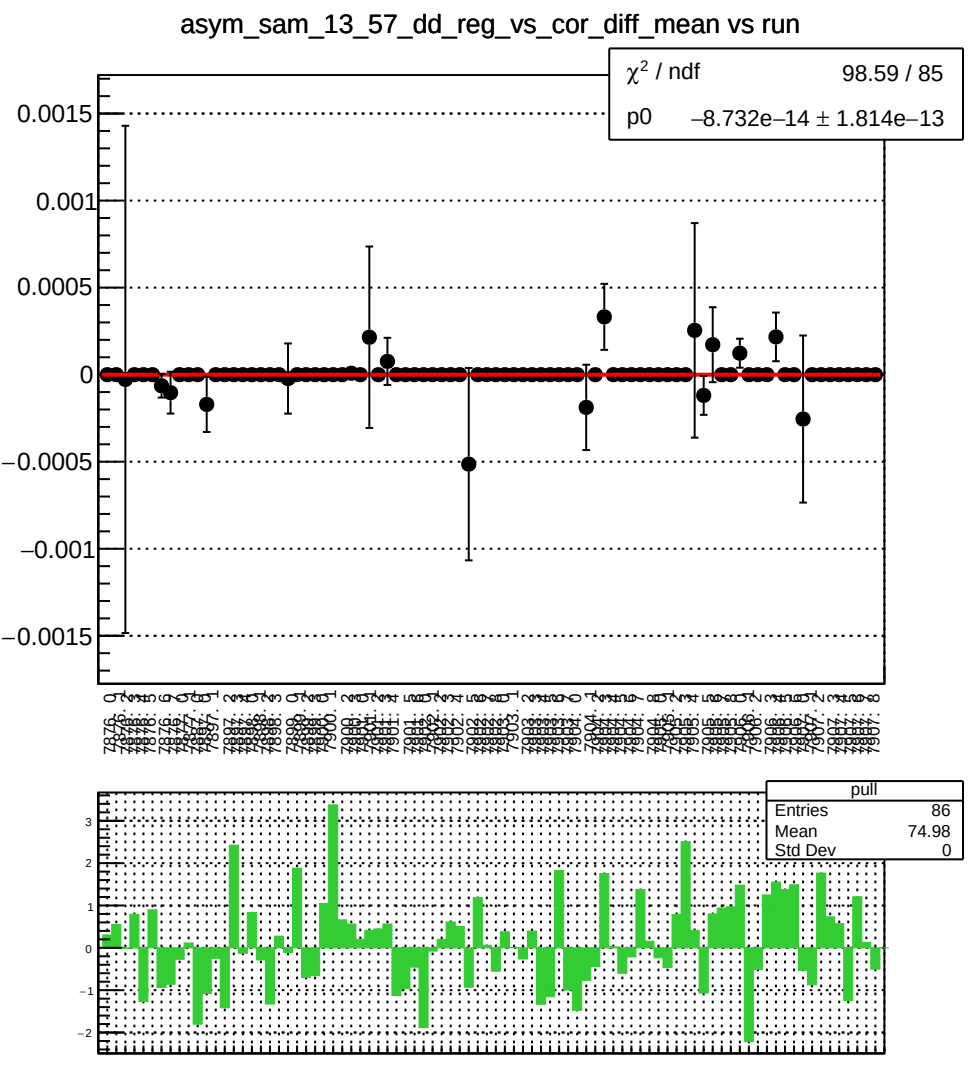

pull1D
Entries 86
Mean 0.01412
Std Dev 0.9259
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

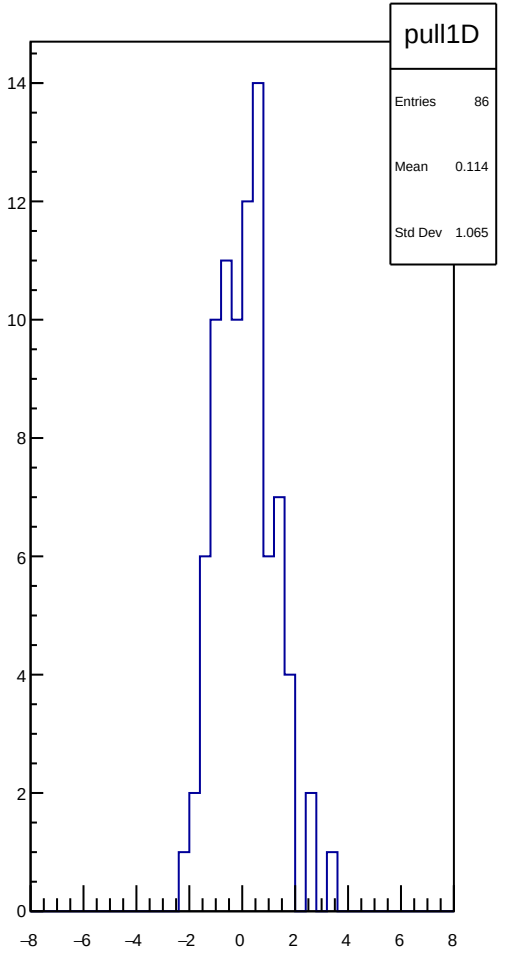

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.054e+04 / 85
p0 875.5 ± 0.6801
1200
1100
1000
900
800
700

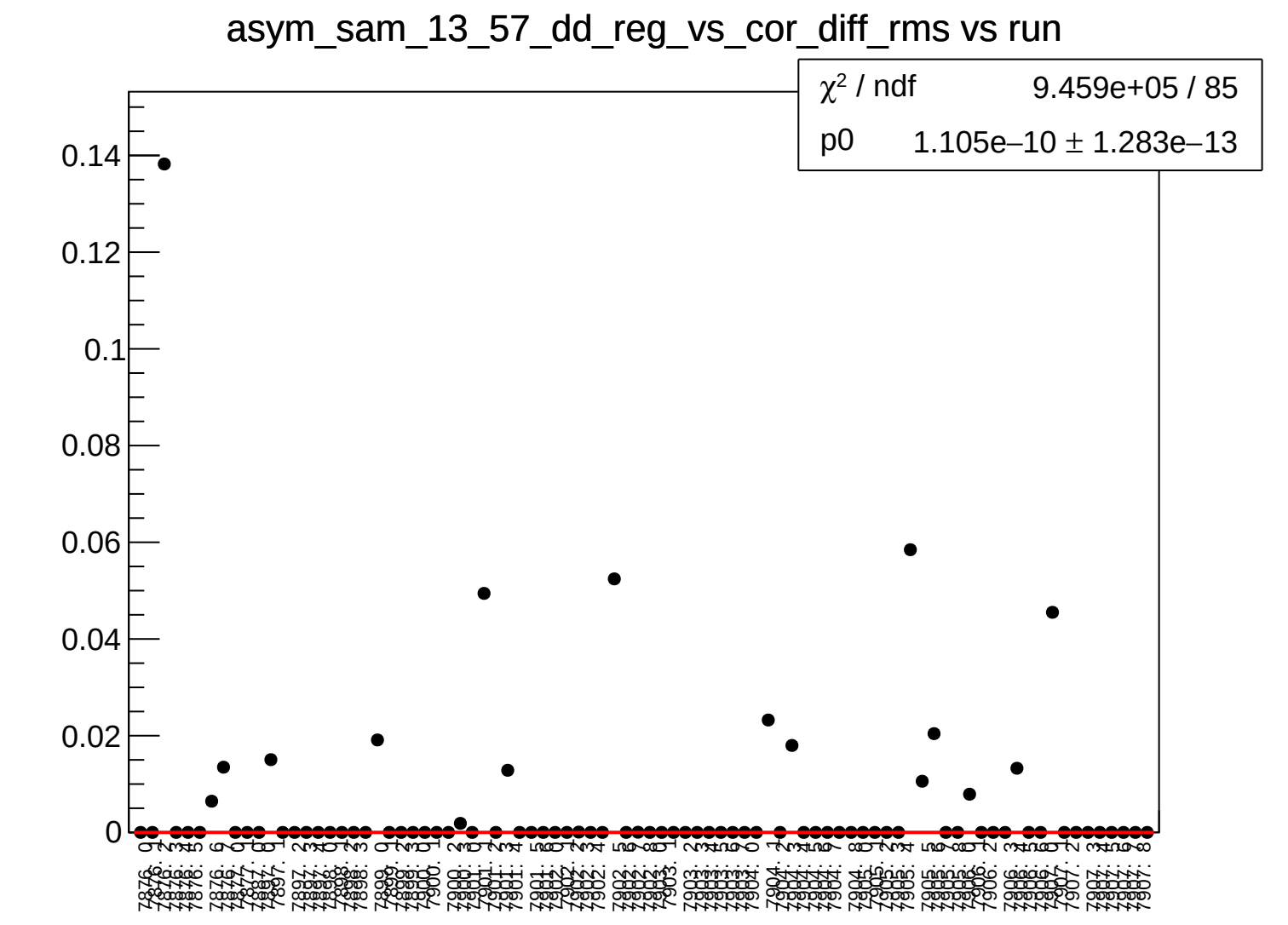

asym_sam_13_57_dd_mean vs run
χ² / ndf 73.16 / 85
p0 1456 ± 979
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −4.858
Std Dev 4.908
2
1
0
−1
−2
−3

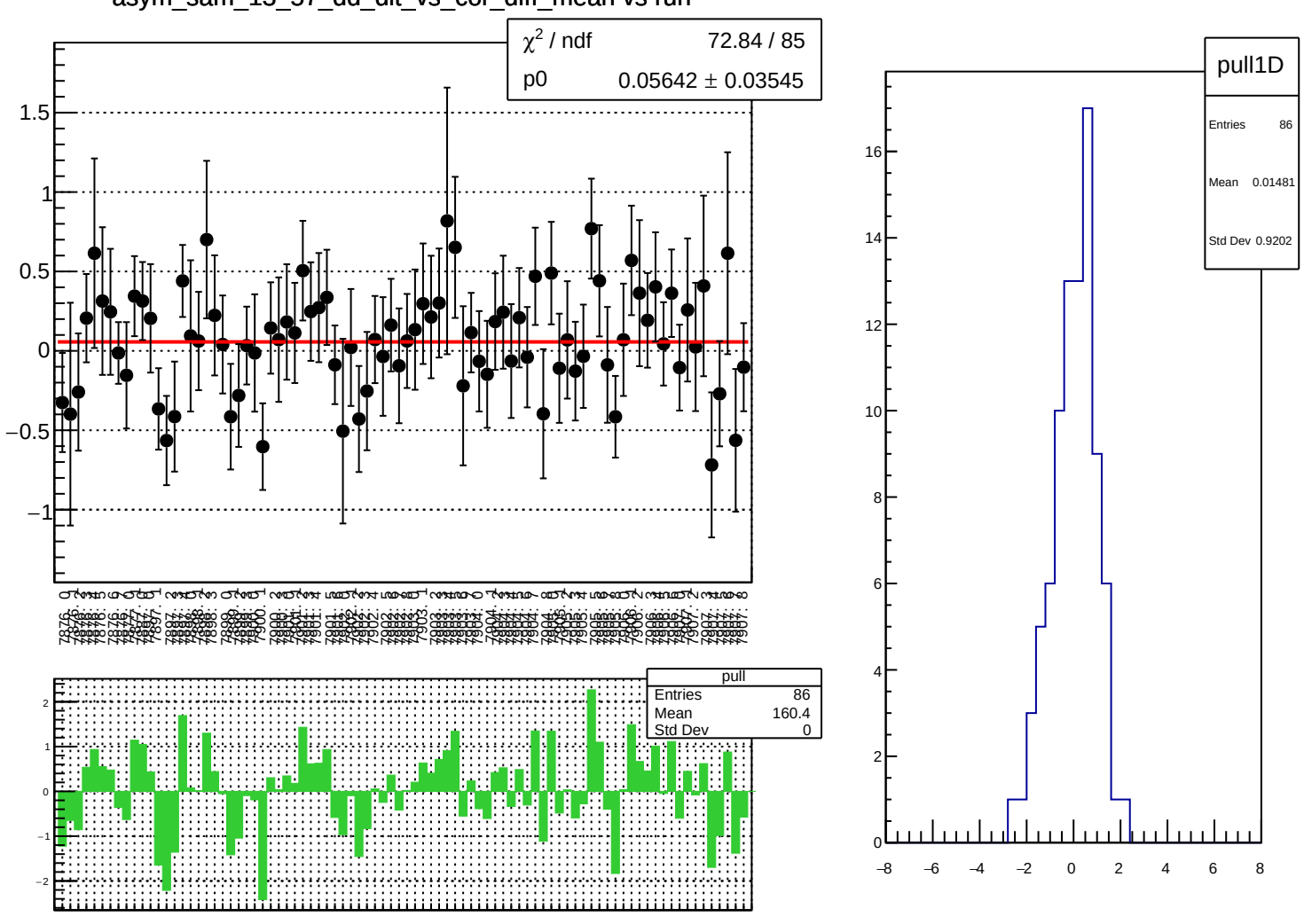

pull1D
Entries 86
Mean −0.01381
Std Dev 0.9222
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

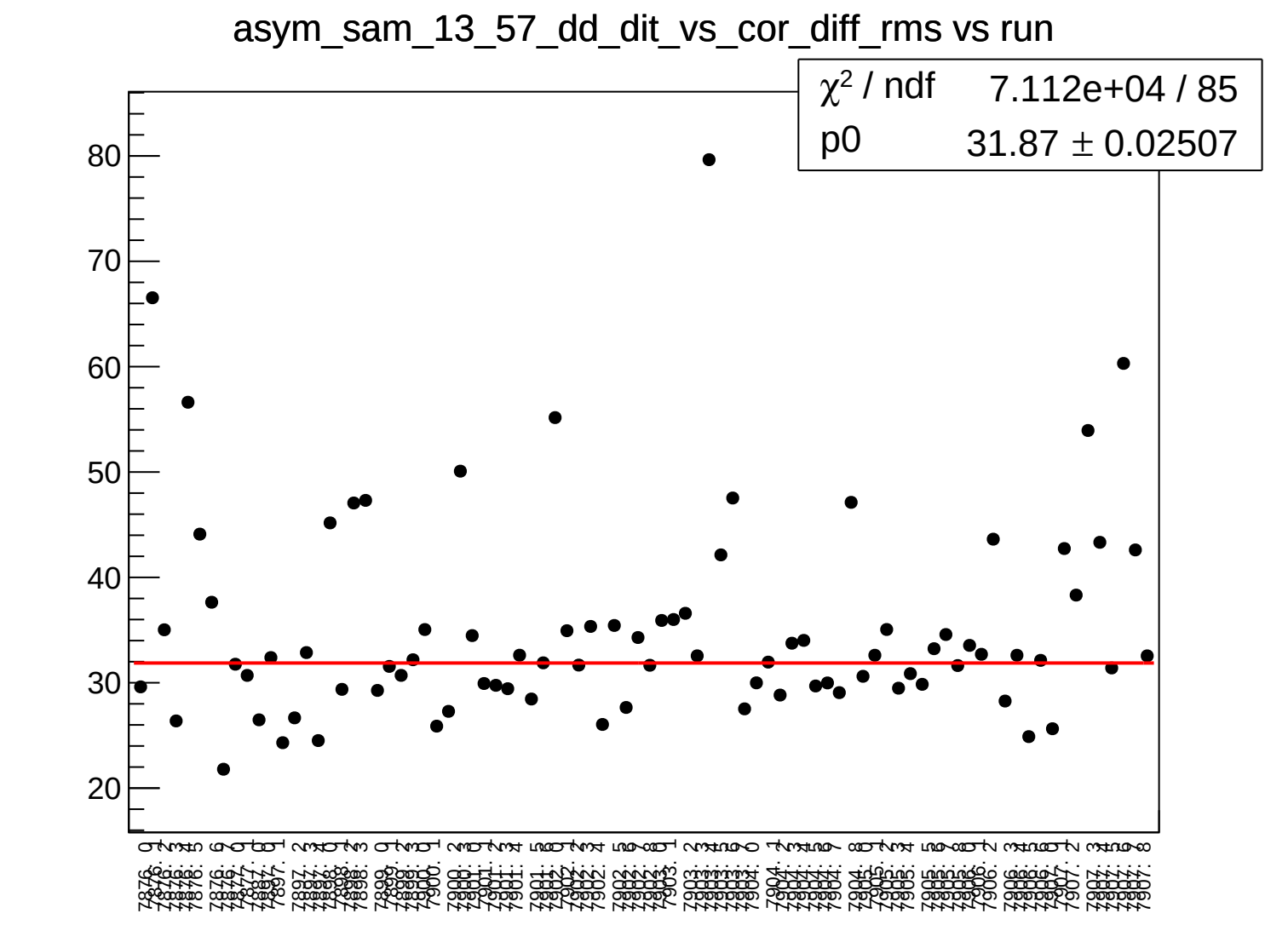

asym_sam_13_57_dd_rms vs run
χ² / ndf 3.059e+04 / 85
p0 891.2 ± 0.6922
1200
1100
1000
900
800
700

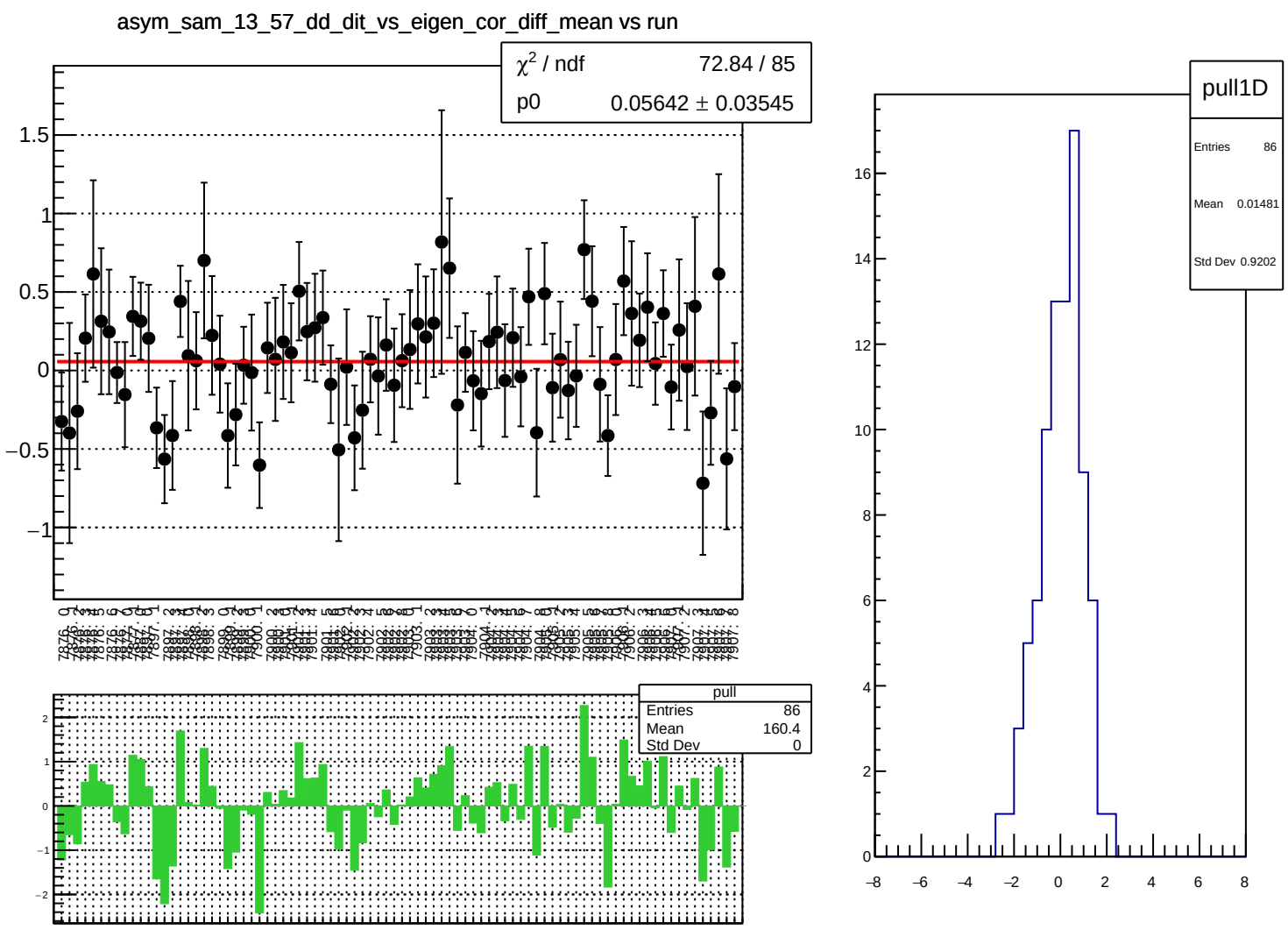

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.59 / 85
p0 −8.732e−14 ± 1.814e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean 74.98
Std Dev 0
3
2
1
0
−1
−2

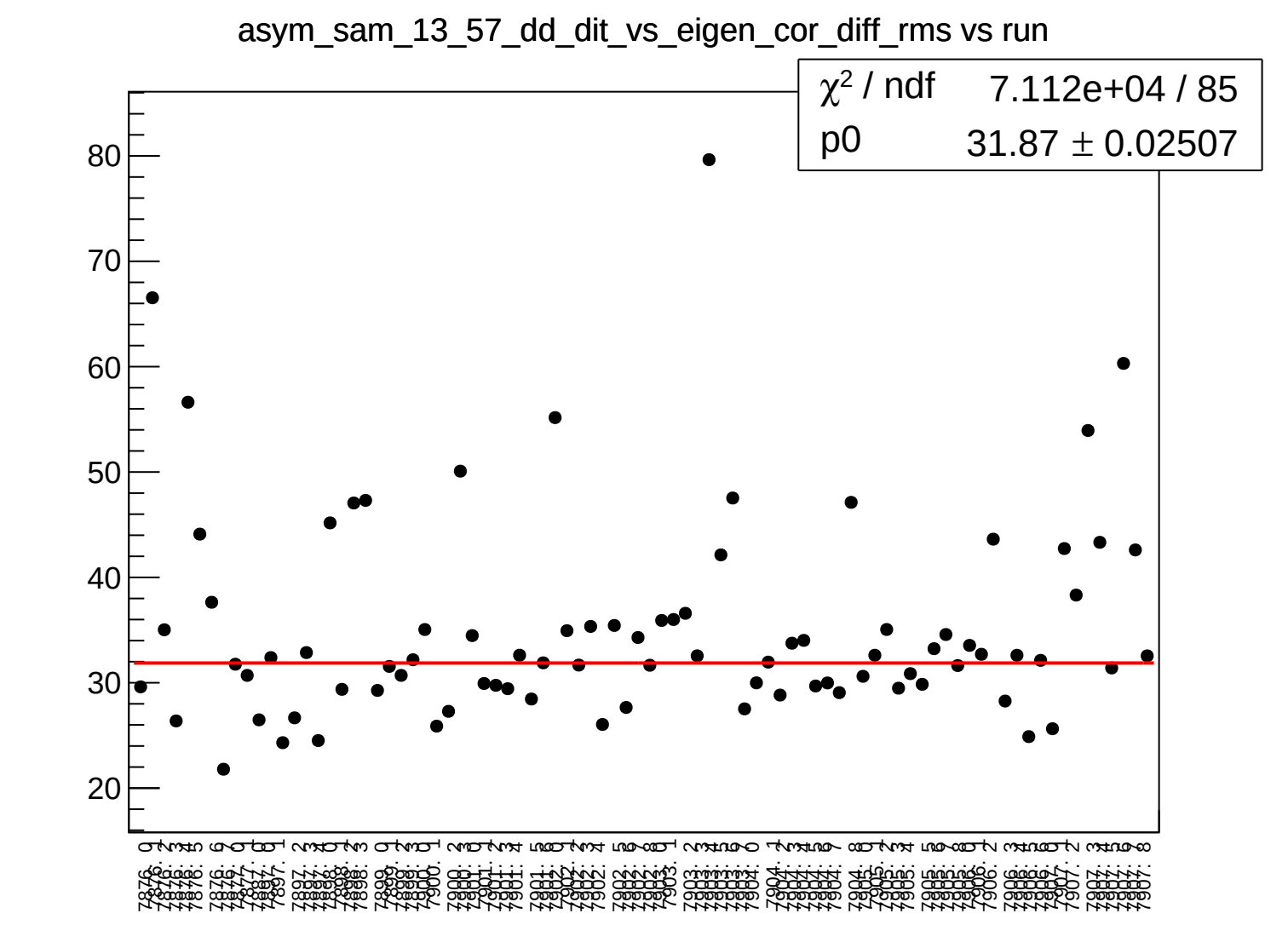

pull1D
Entries 86
Mean 0.114
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

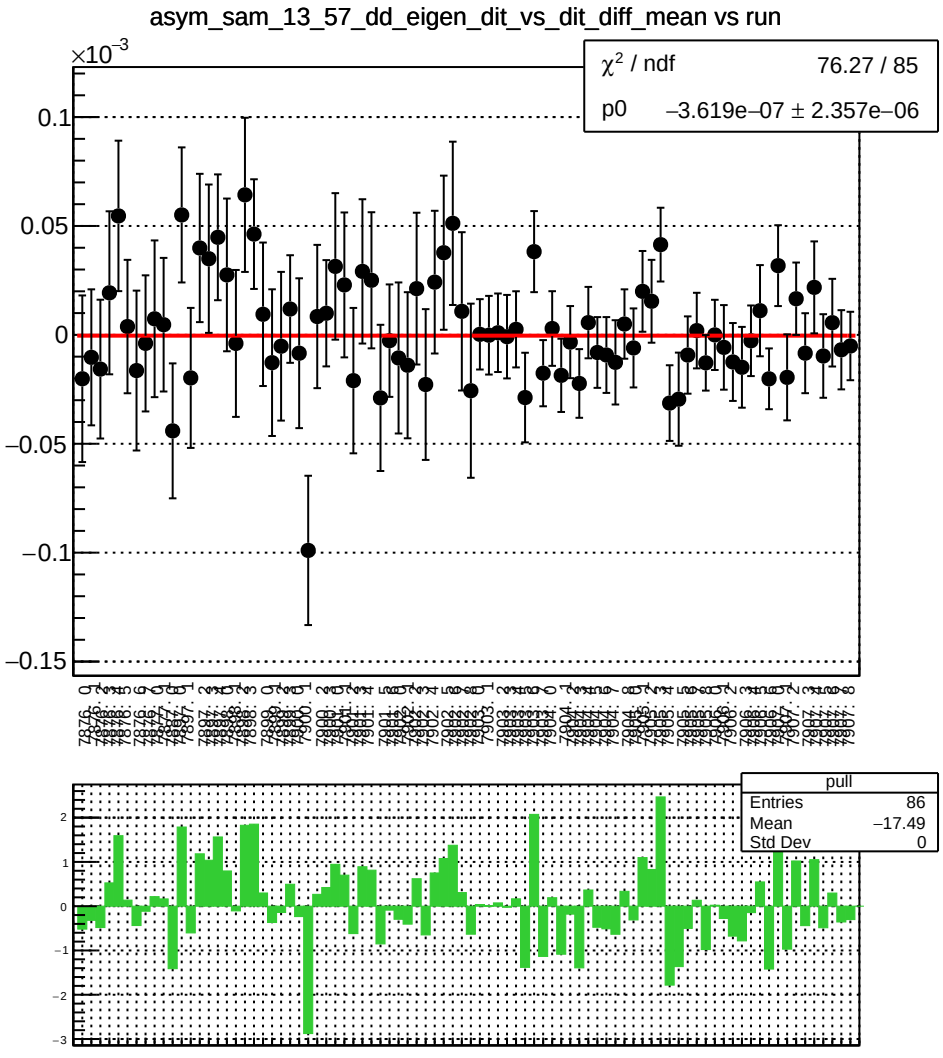

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.459e+05 / 85
p0 1.105e−10 ± 1.283e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

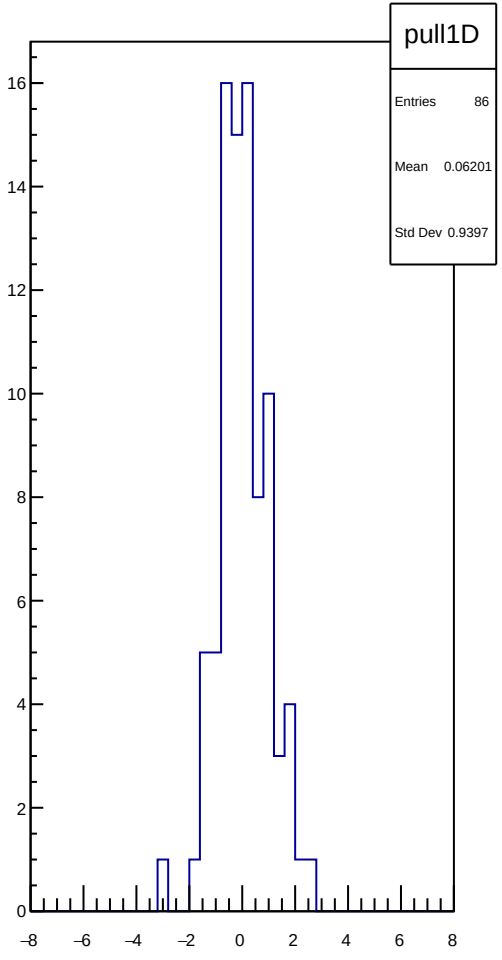

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.84 / 85
p0 0.05642 ± 0.03545
pull
Entries 86
Mean 160.4
Std Dev 0
pull1D
Entries 86
Mean 0.01481
Std Dev 0.9202

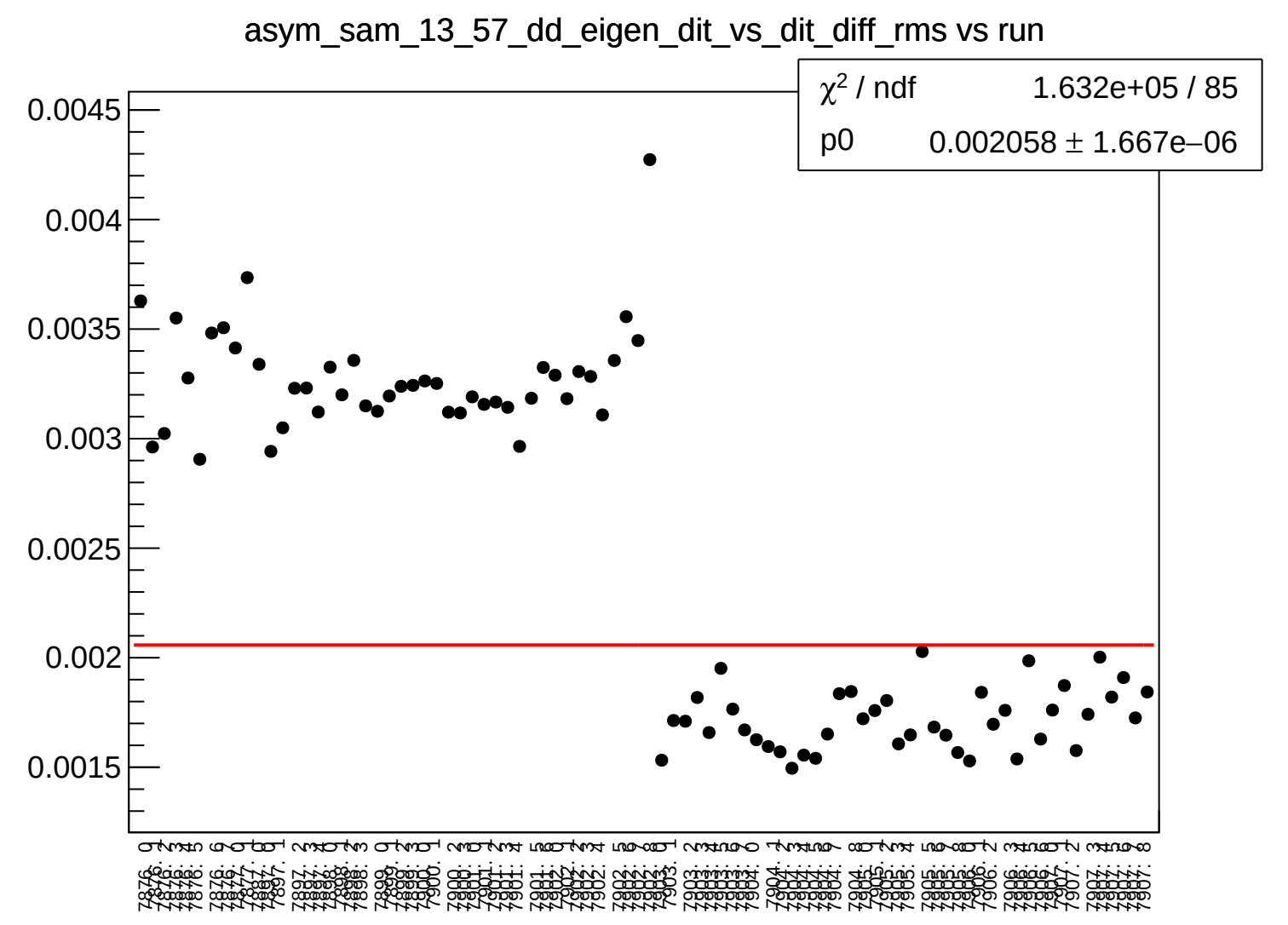

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.112e+04 / 85
p0 31.87 ± 0.02507
80
70
60
50
40
30
20

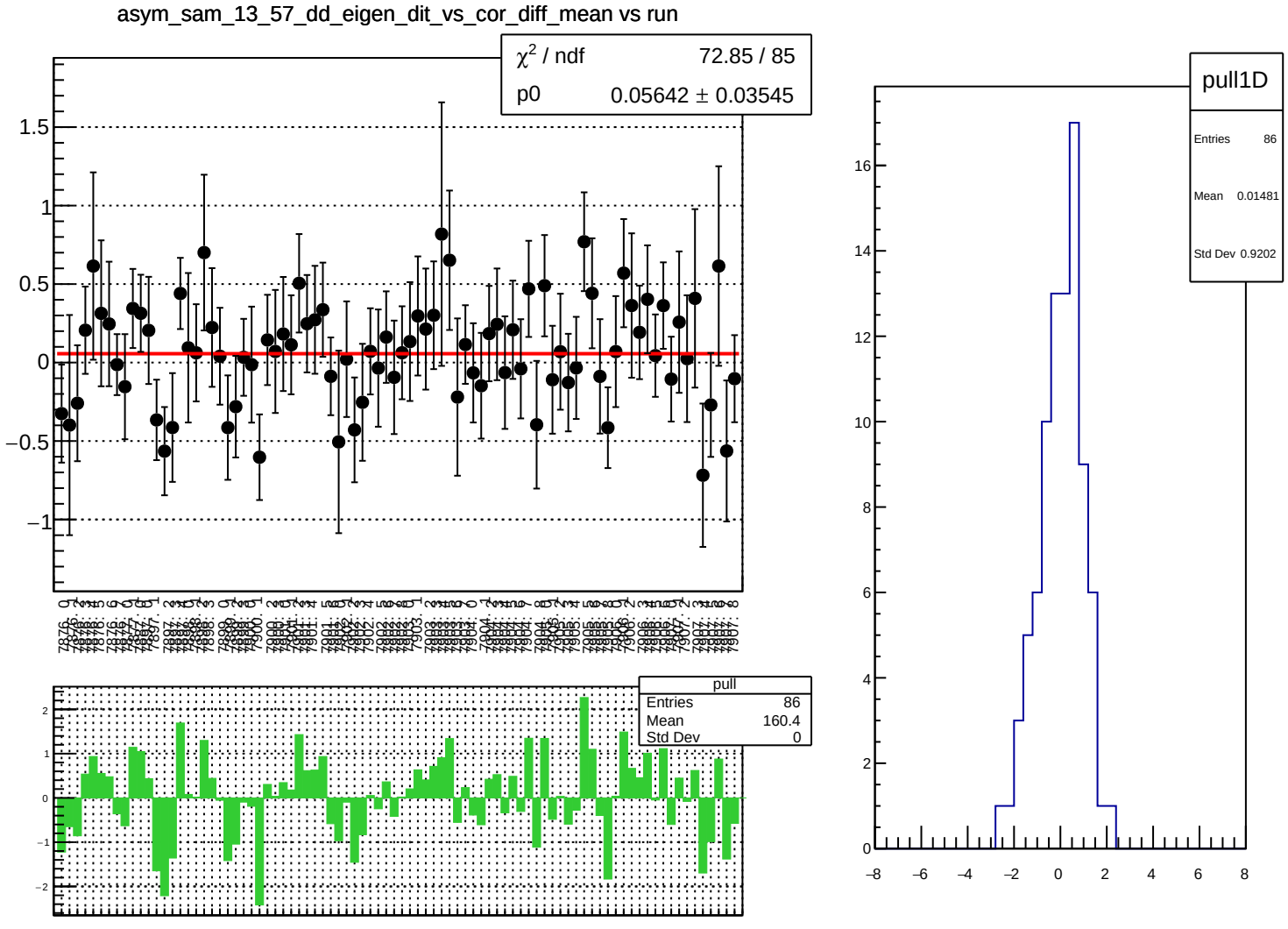

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.84 / 85
p0 0.05642 ± 0.03545
pull
Entries 86
Mean 160.4
Std Dev 0
pull1D
Entries 86
Mean 0.01481
Std Dev 0.9202

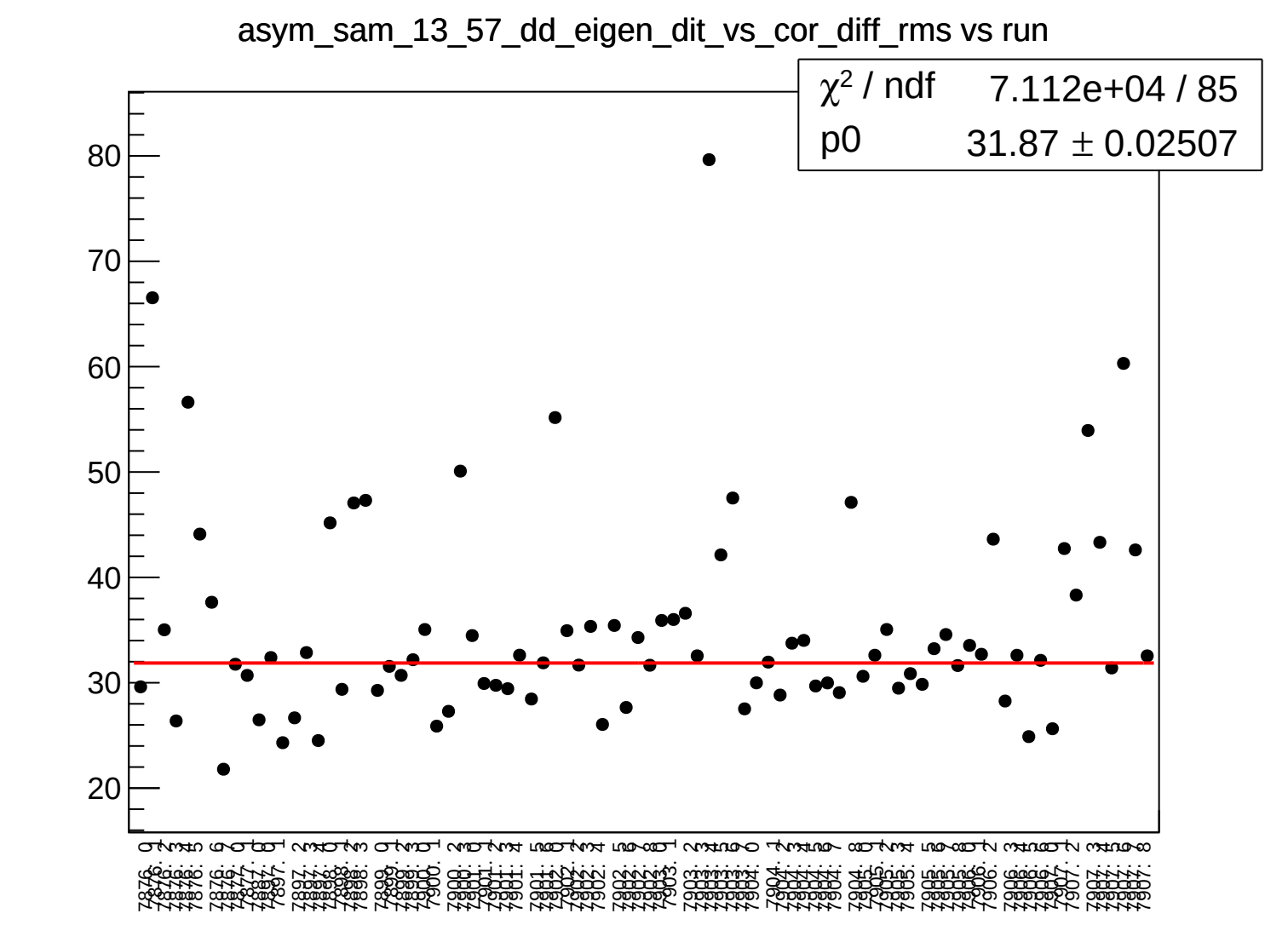

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.112e+04 / 85
p0 31.87 ± 0.02507
80
70
60
50
40
30
20

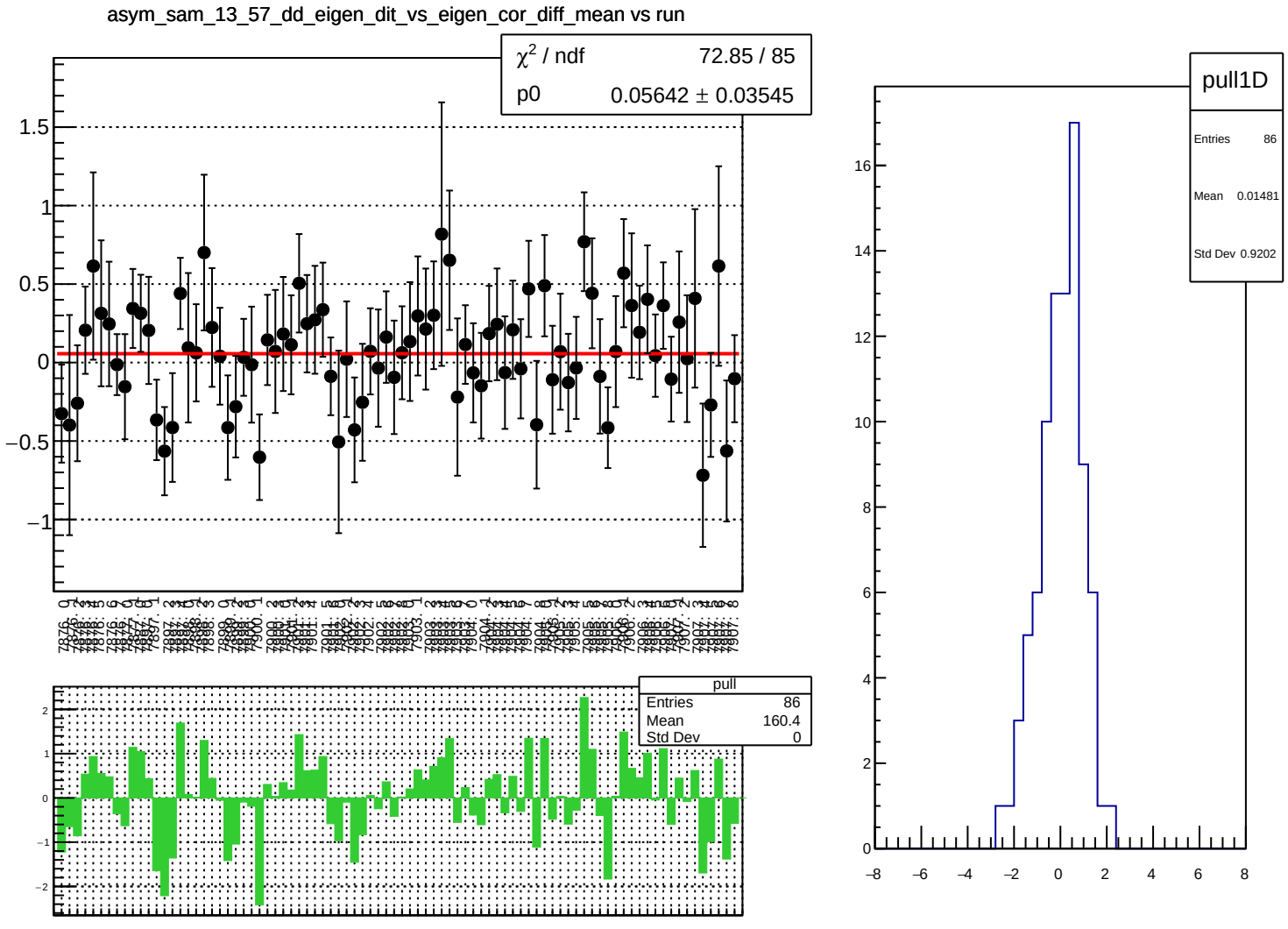

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.27 / 85
p0 −3.619e−07 ± 2.357e−06
pull
Entries 86
Mean −17.49
Std Dev 0

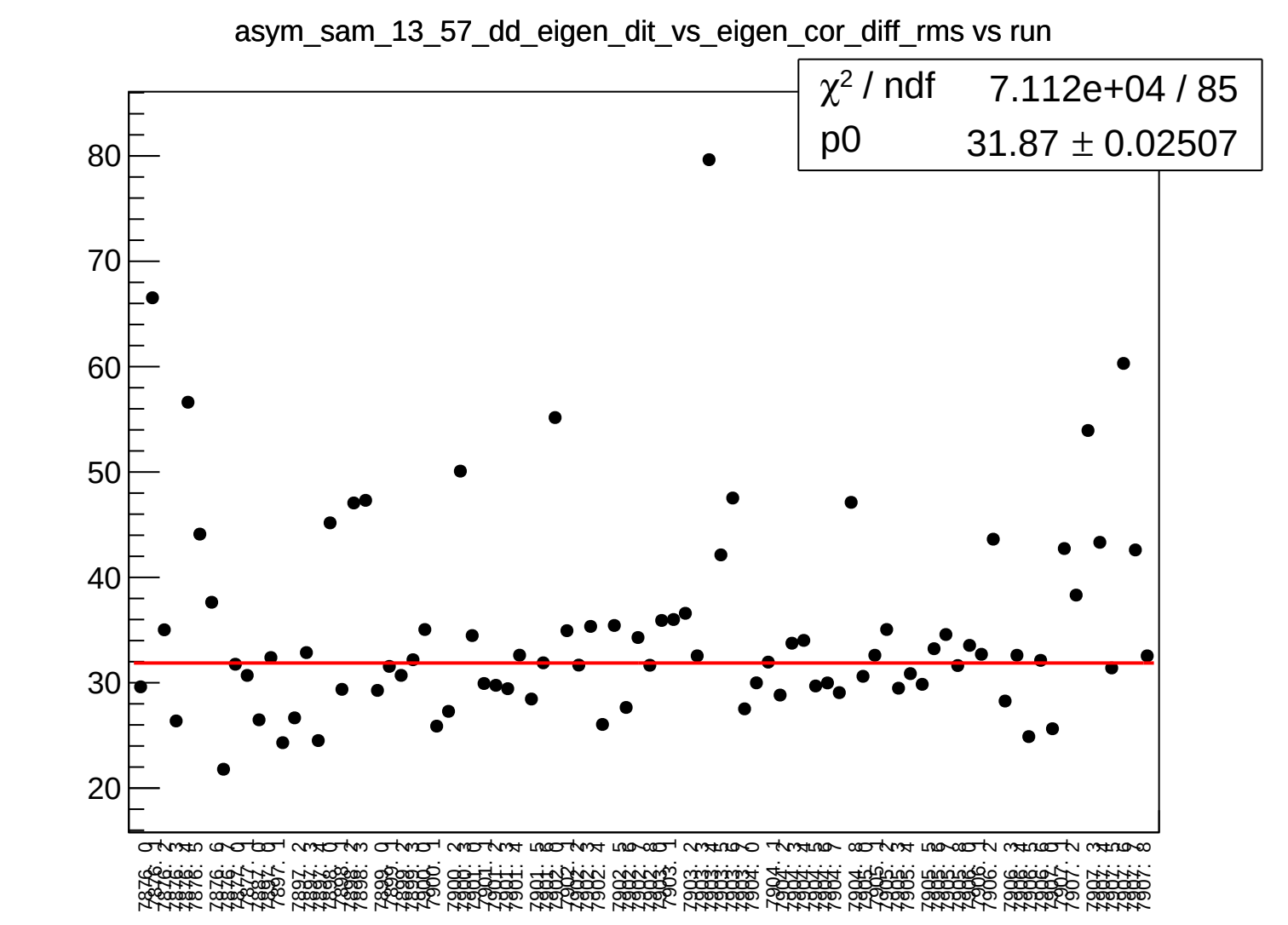

pull1D
Entries 86
Mean 0.06201
Std Dev 0.9397

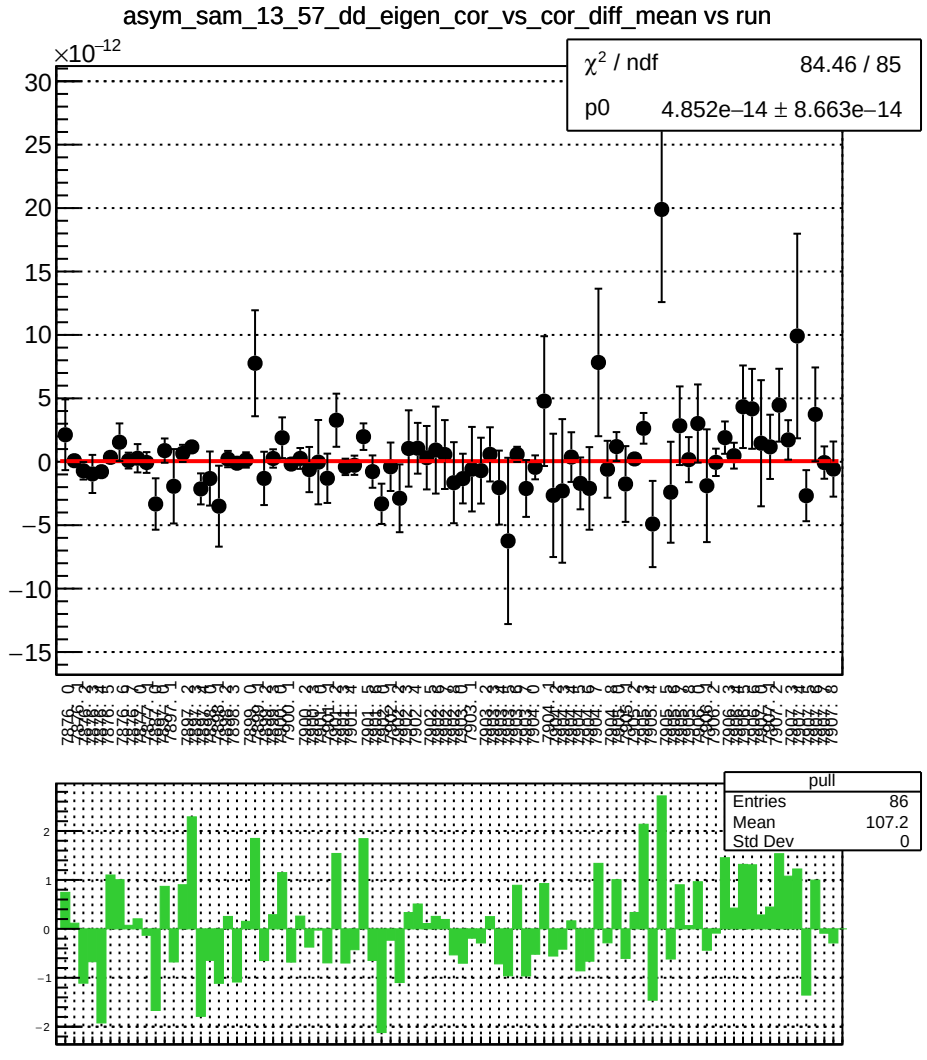

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.632e+05 / 85
p0 0.002058 ± 1.667e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

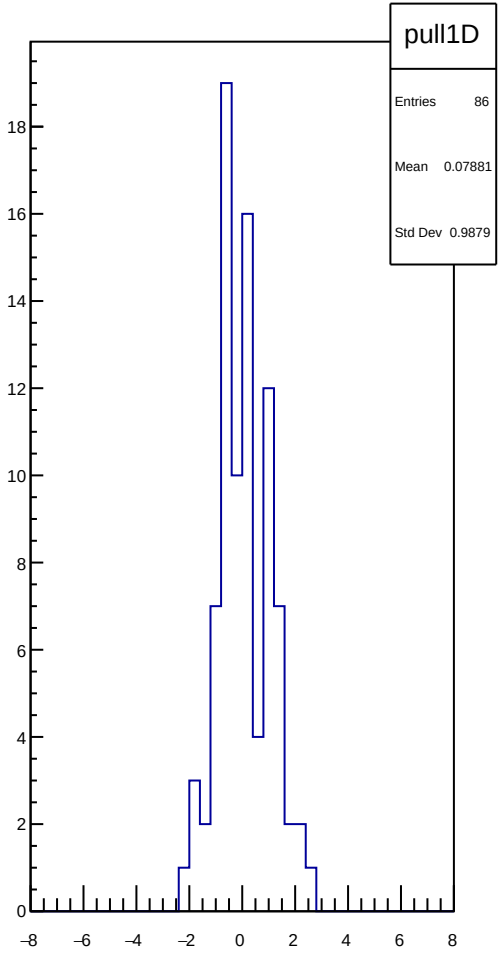

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.85 / 85
p0 0.05642 ± 0.03545
pull
Entries 86
Mean 160.4
Std Dev 0
pull1D
Entries 86
Mean 0.01481
Std Dev 0.9202

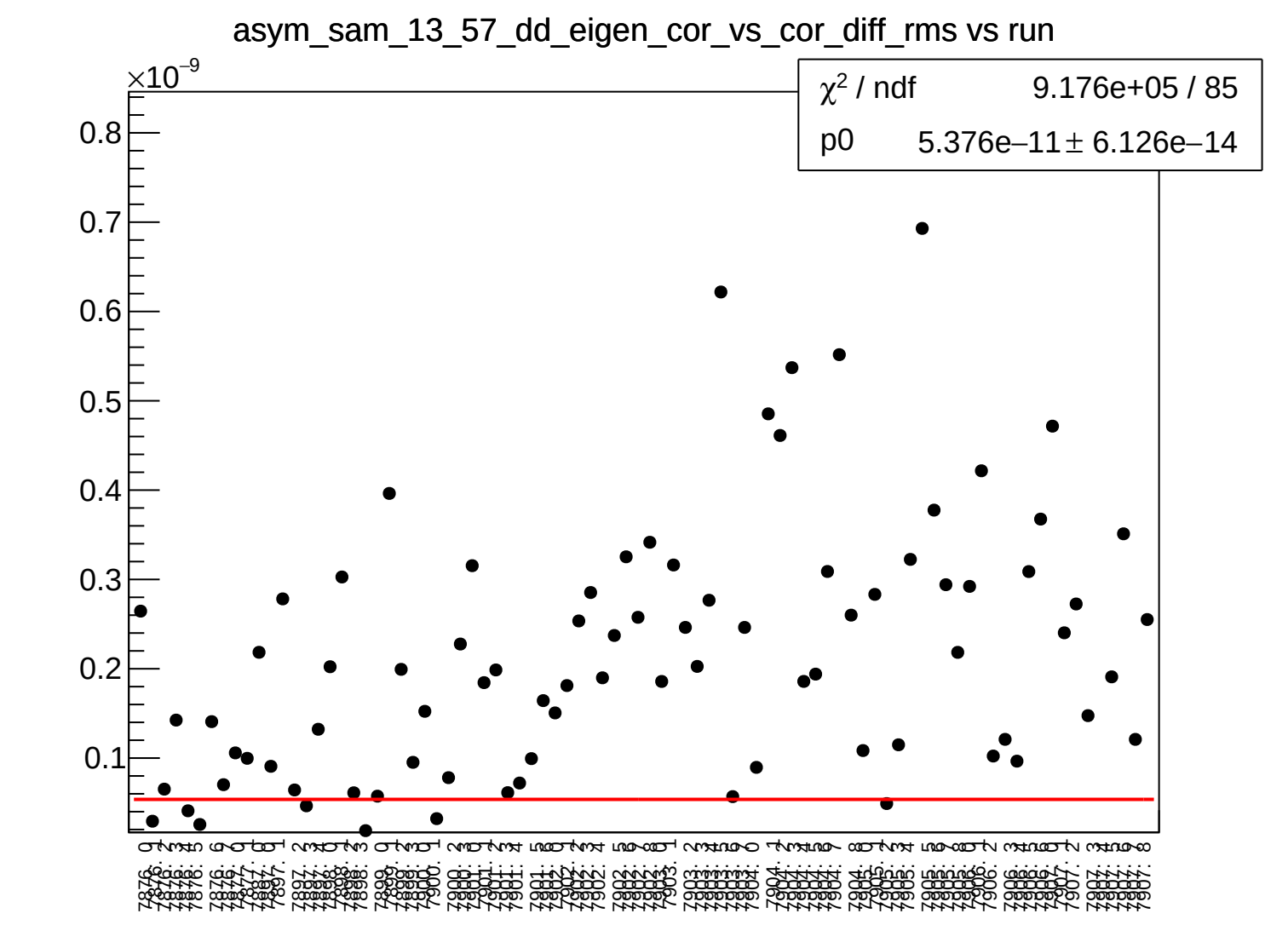

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.112e+04 / 85
p0 31.87 ± 0.02507
80
70
60
50
40
30
20

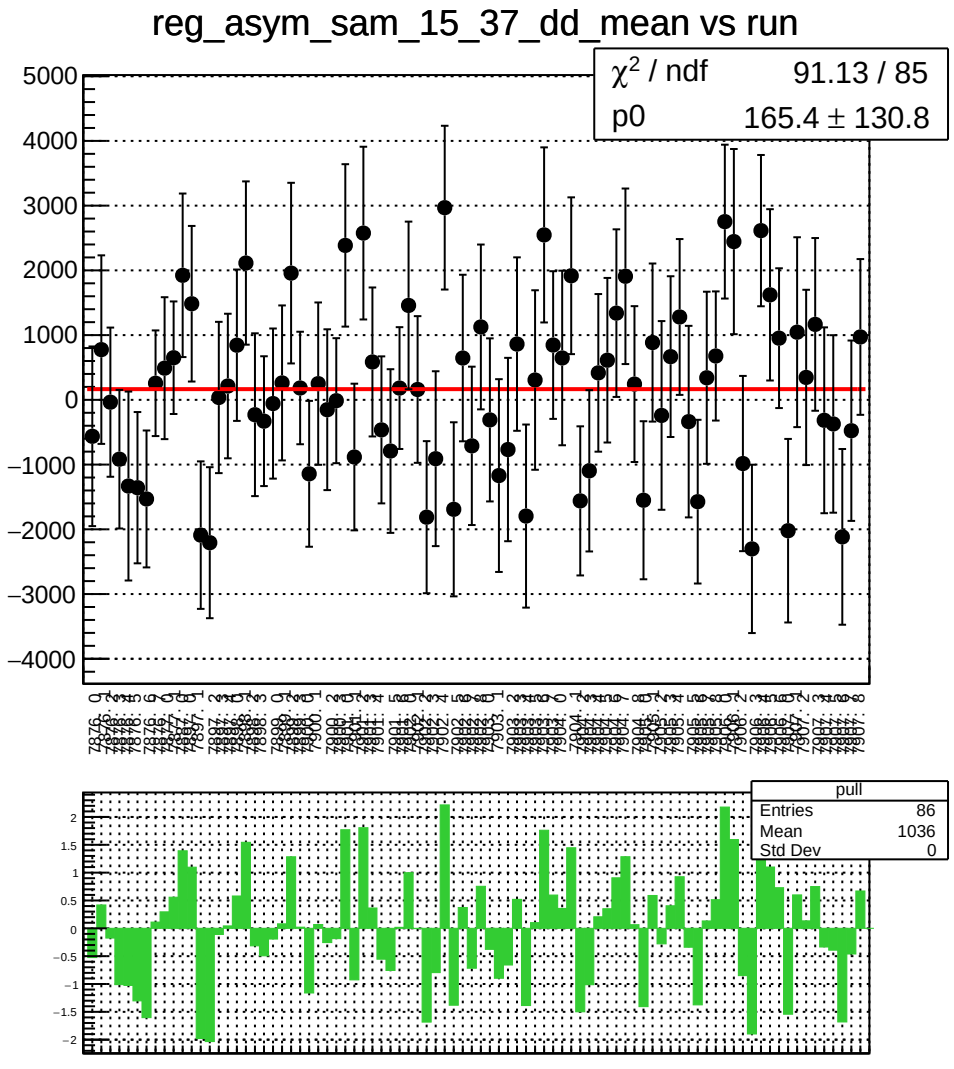

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.85 / 85
p0 0.05642 ± 0.03545
pull
Entries 86
Mean 160.4
Std Dev 0
pull1D
Entries 86
Mean 0.01481
Std Dev 0.9202

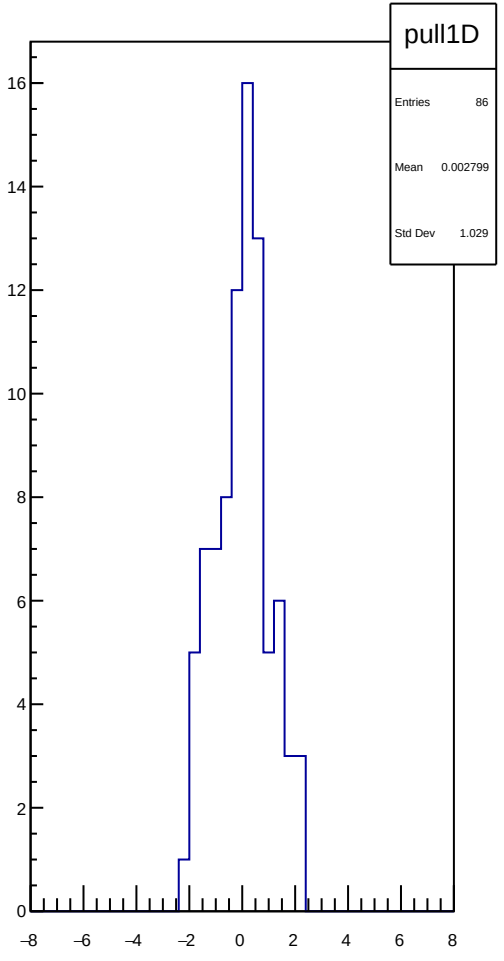

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.112e+04 / 85
p0 31.87 ± 0.02507
80
70
60
50
40
30
20

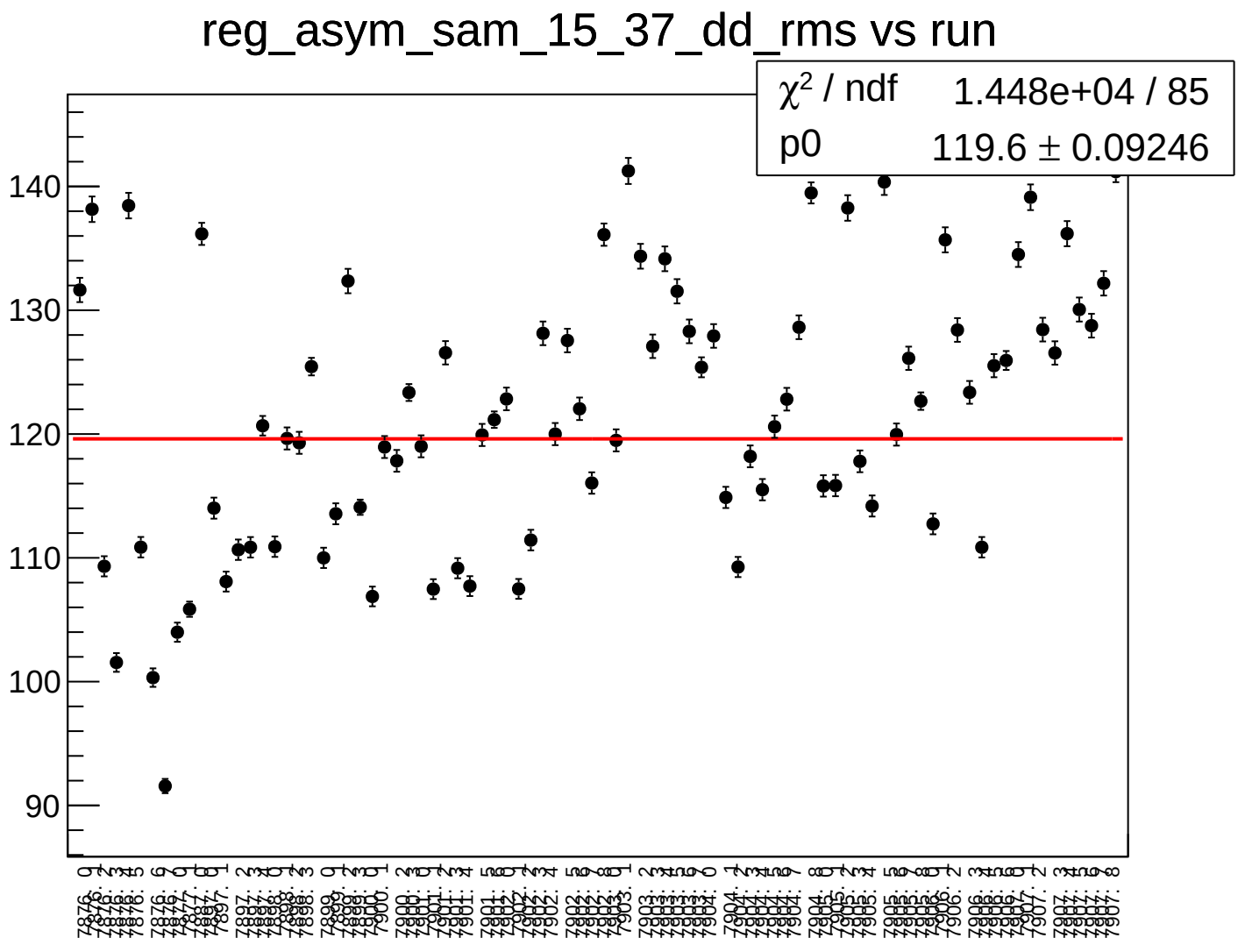

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.46 / 85
p0 4.852e−14 ± 8.663e−14
pull
Entries 86
Mean 107.2
Std Dev 0

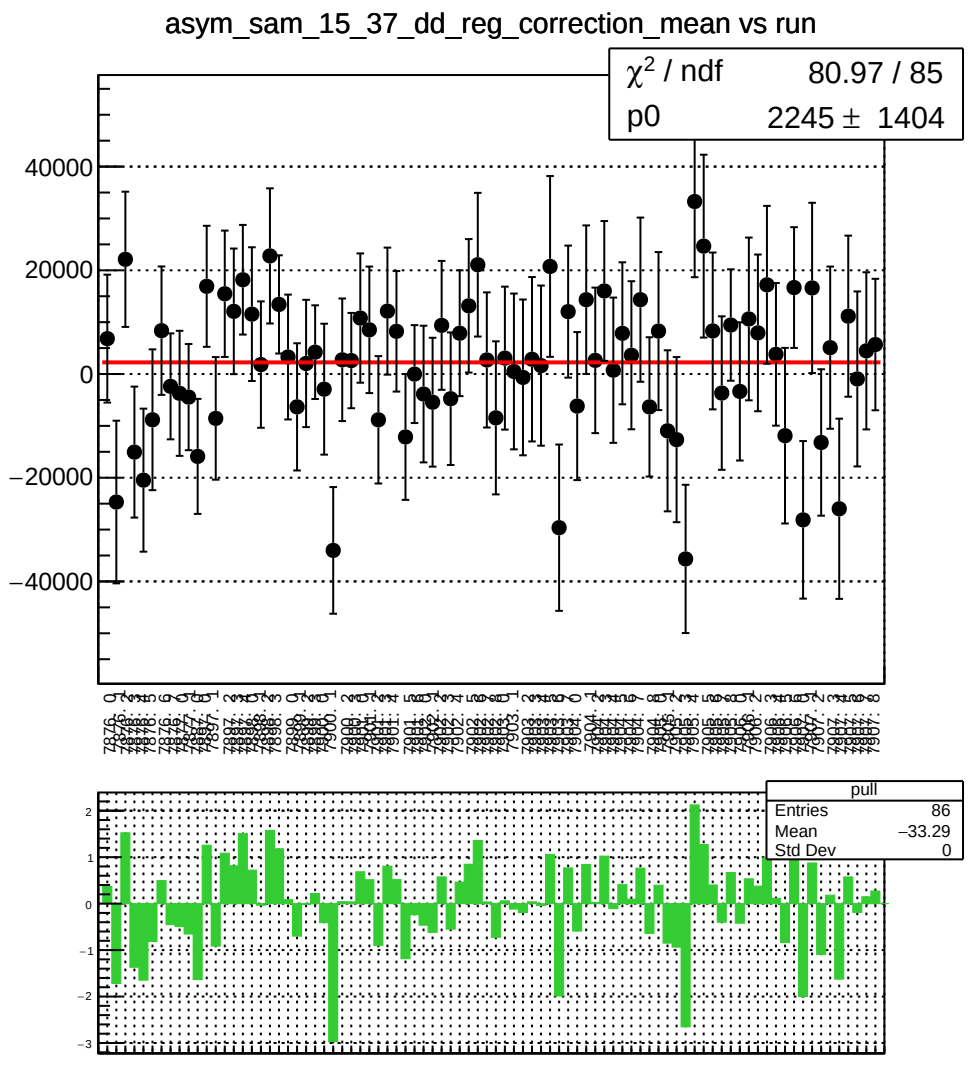

pull1D
Entries 86
Mean 0.07881
Std Dev 0.9879

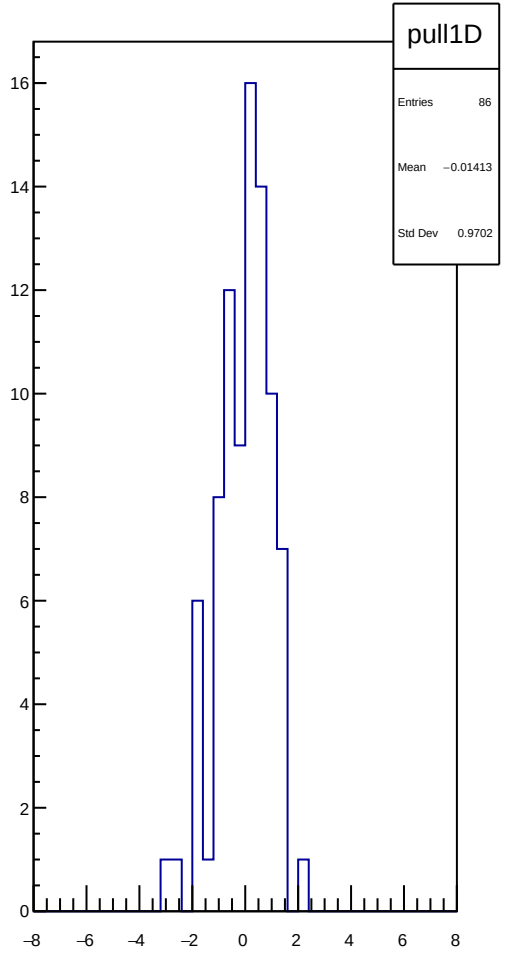

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.176e+05 / 85
p0 5.376e−11 ± 6.126e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

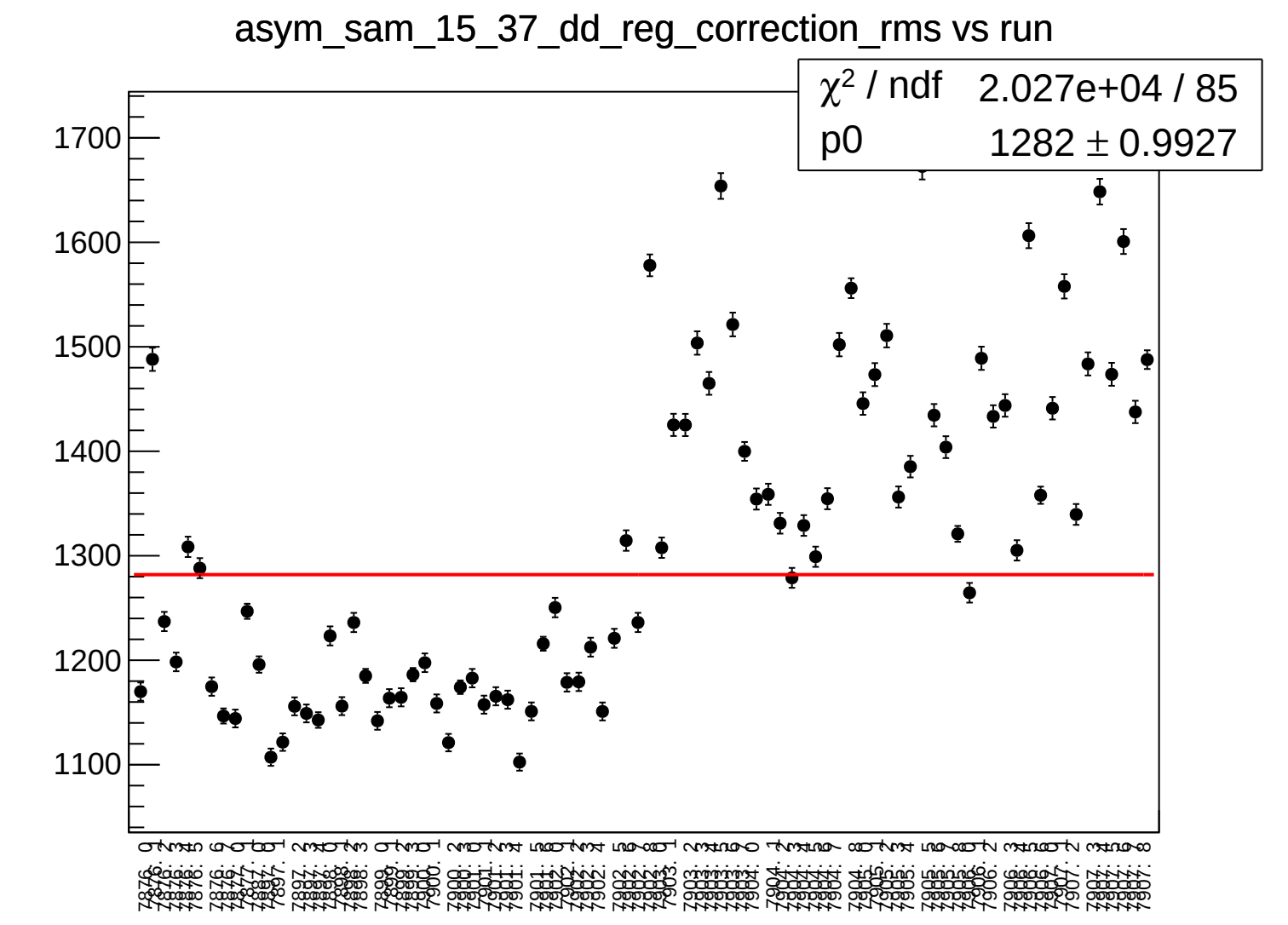

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 91.13 / 85
p0 165.4 ± 130.8
pull
Entries 86
Mean 1036
Std Dev 0

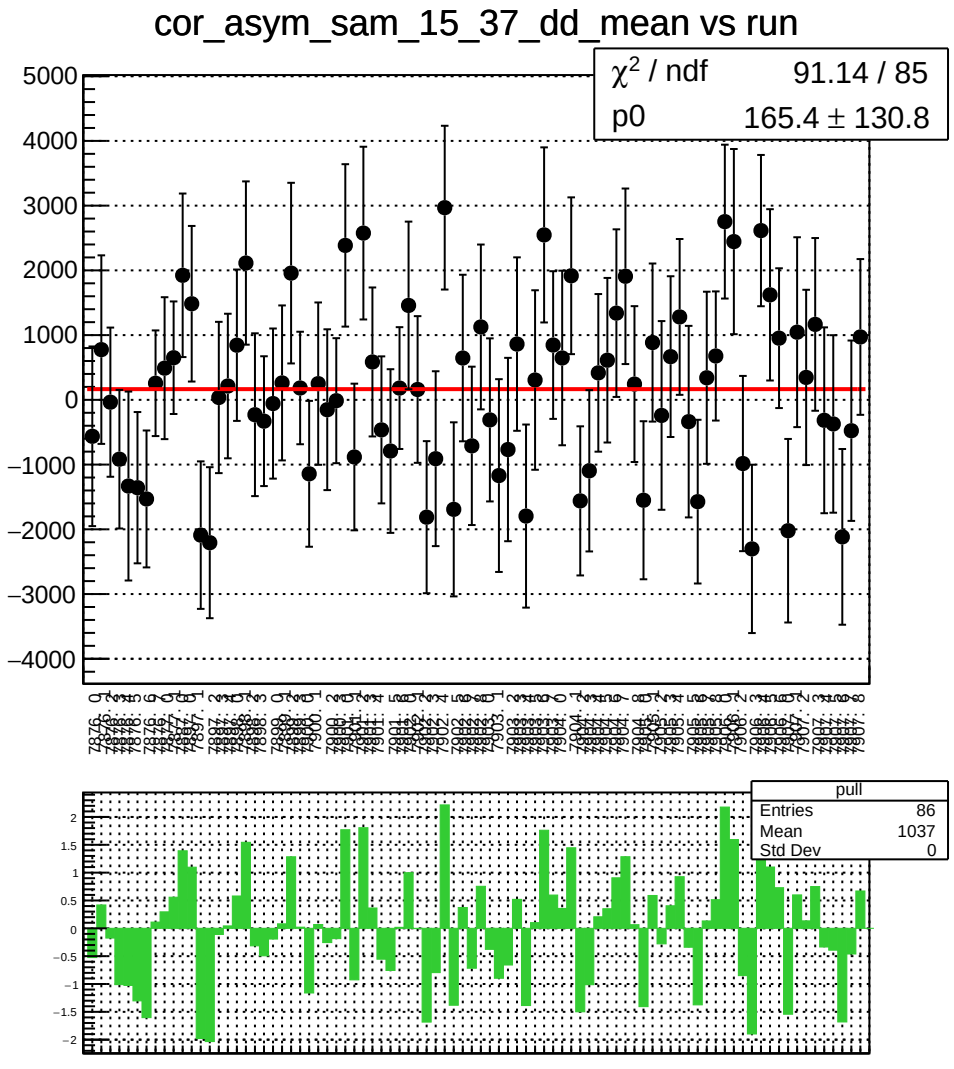

pull1D
Entries 86
Mean 0.002799
Std Dev 1.029

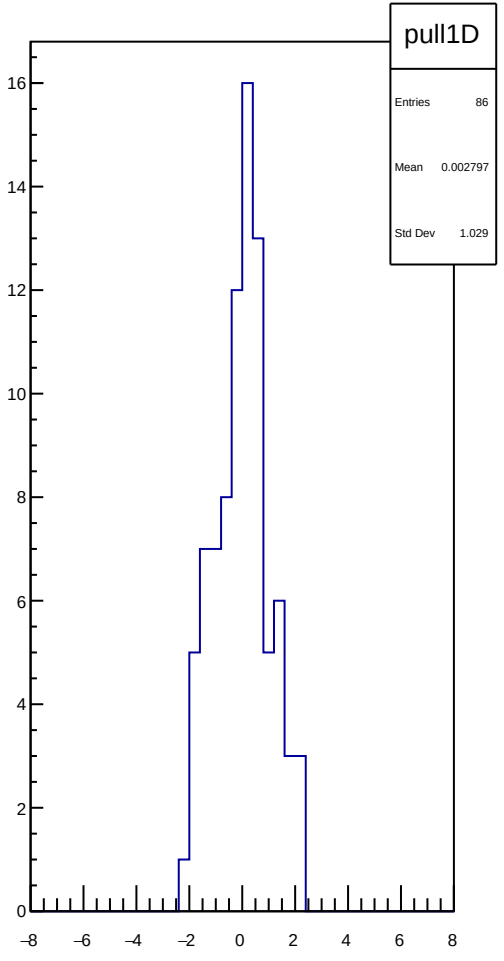

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.448e+04 / 85
p0 119.6 ± 0.09246
140
130
120
110
100
90

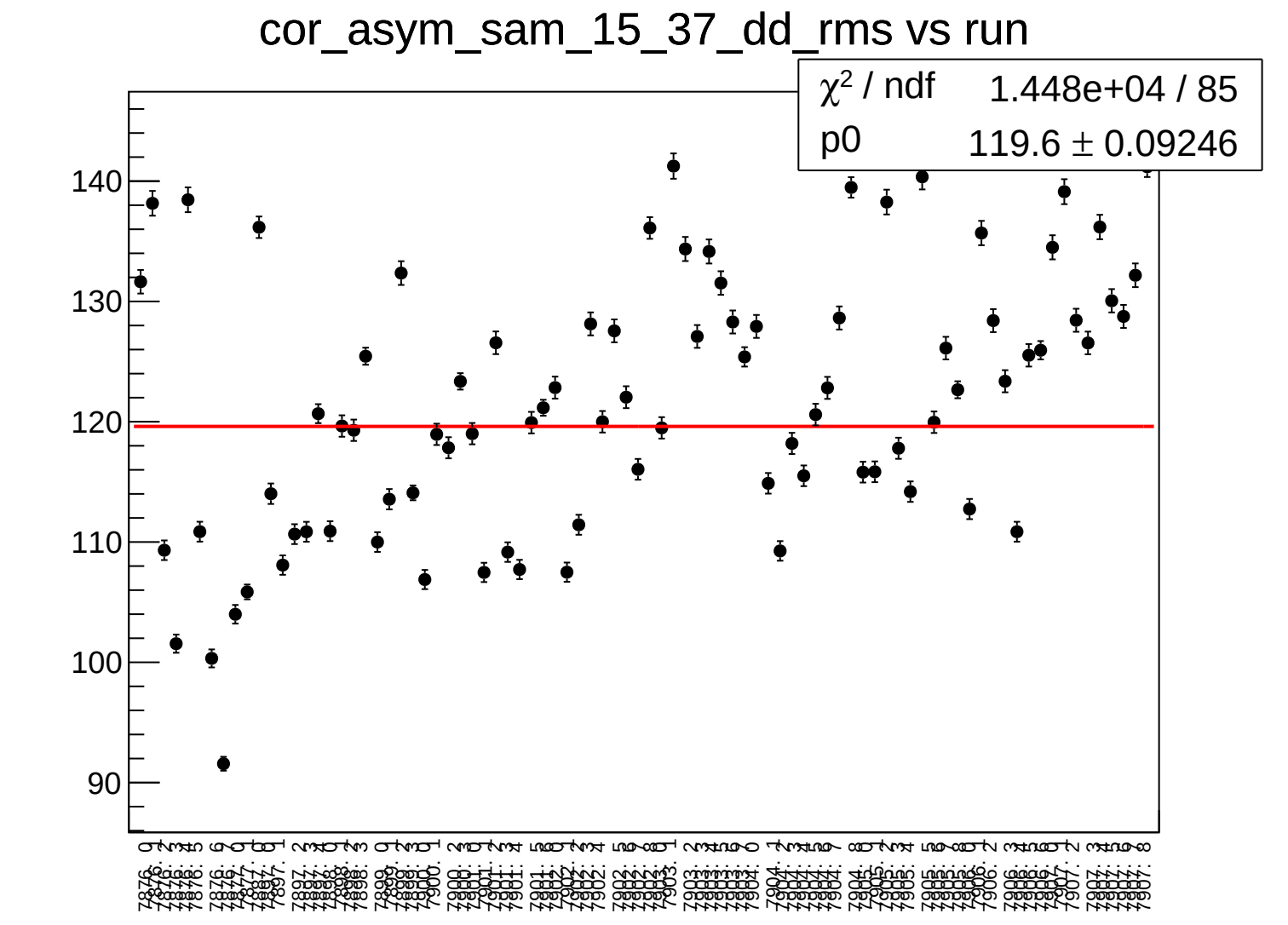

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 80.97 / 85
p0 2245 ± 1404
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −33.29
Std Dev 0
2
1
0
−1
−2
−3

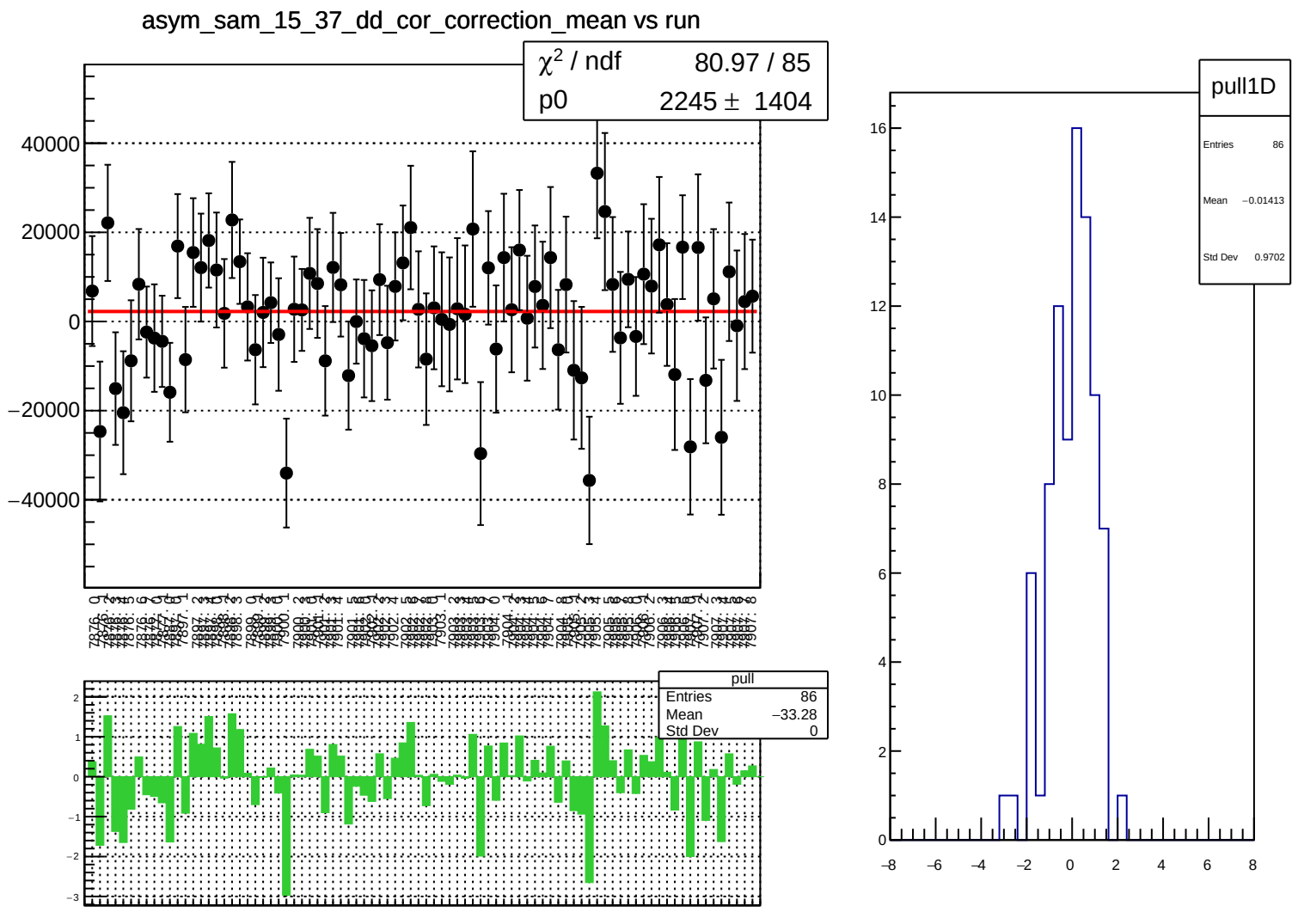

pull1D
Entries 86
Mean −0.01413
Std Dev 0.9702
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

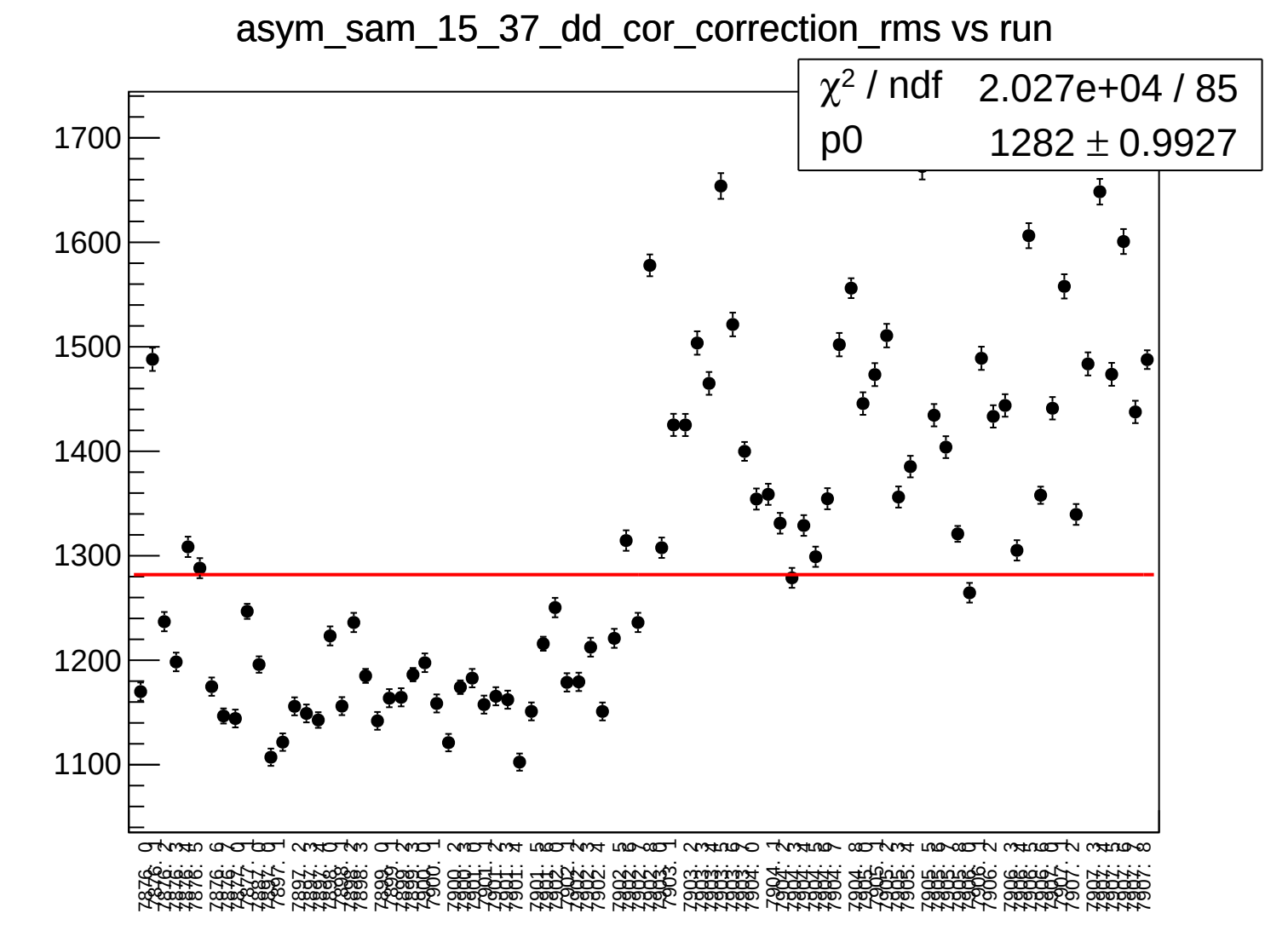

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 2.027e+04 / 85
p0 1282 ± 0.9927
1700
1600
1500
1400
1300
1200
1100

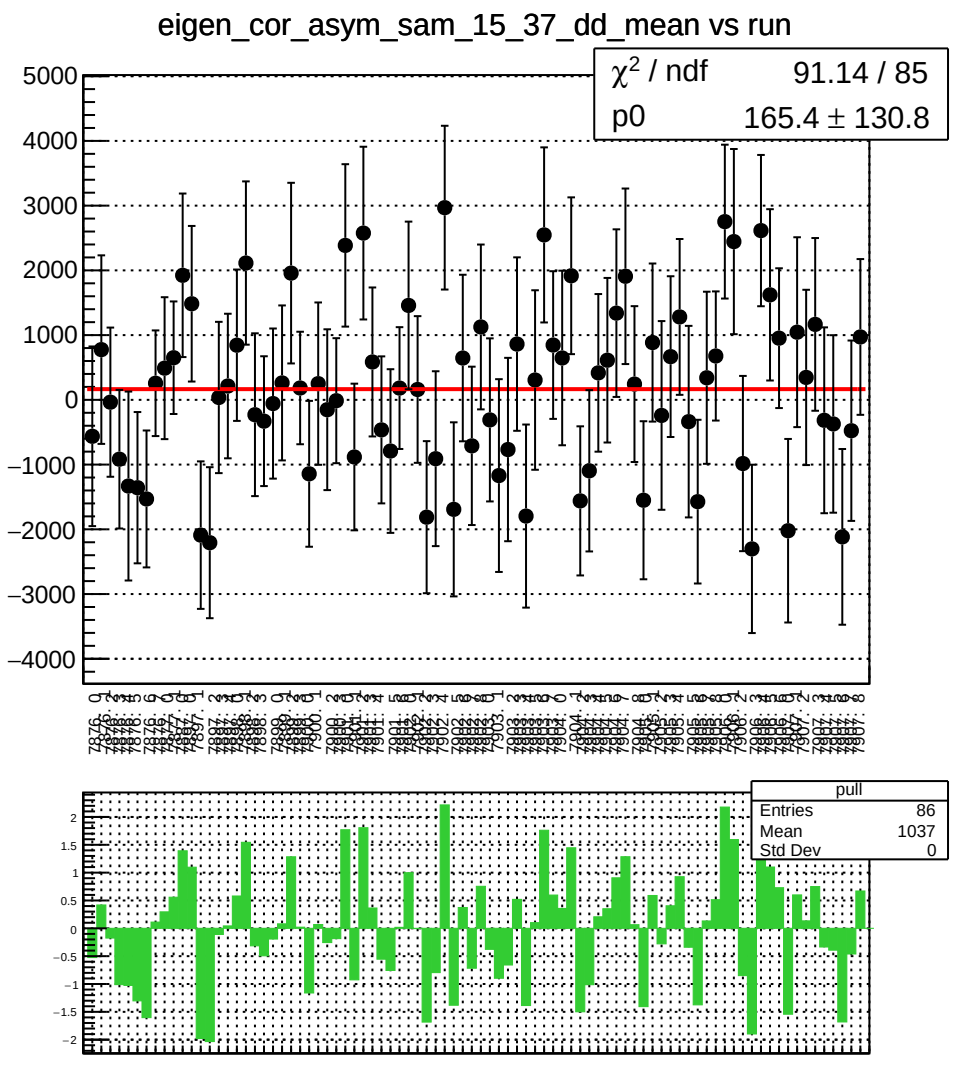

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 91.14 / 85
p0 165.4 ± 130.8
pull
Entries 86
Mean 1037
Std Dev 0

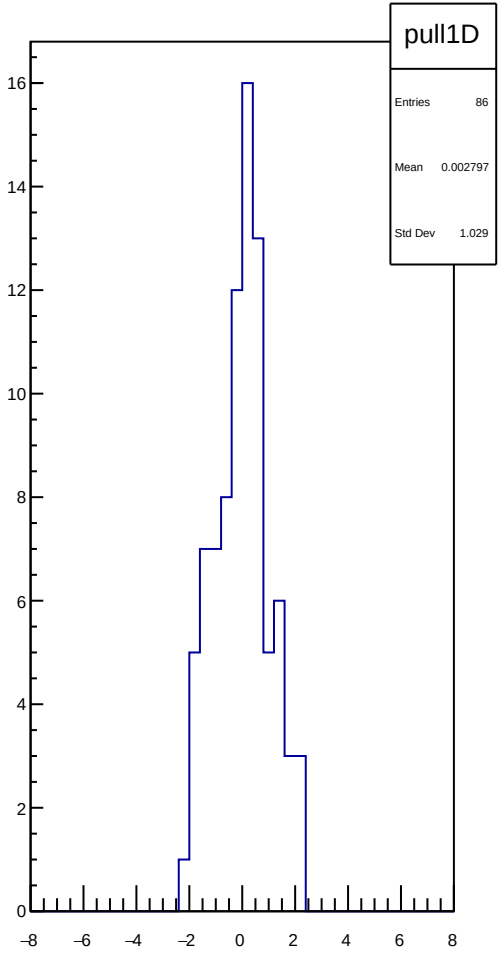

pull1D
Entries 86
Mean 0.002797
Std Dev 1.029

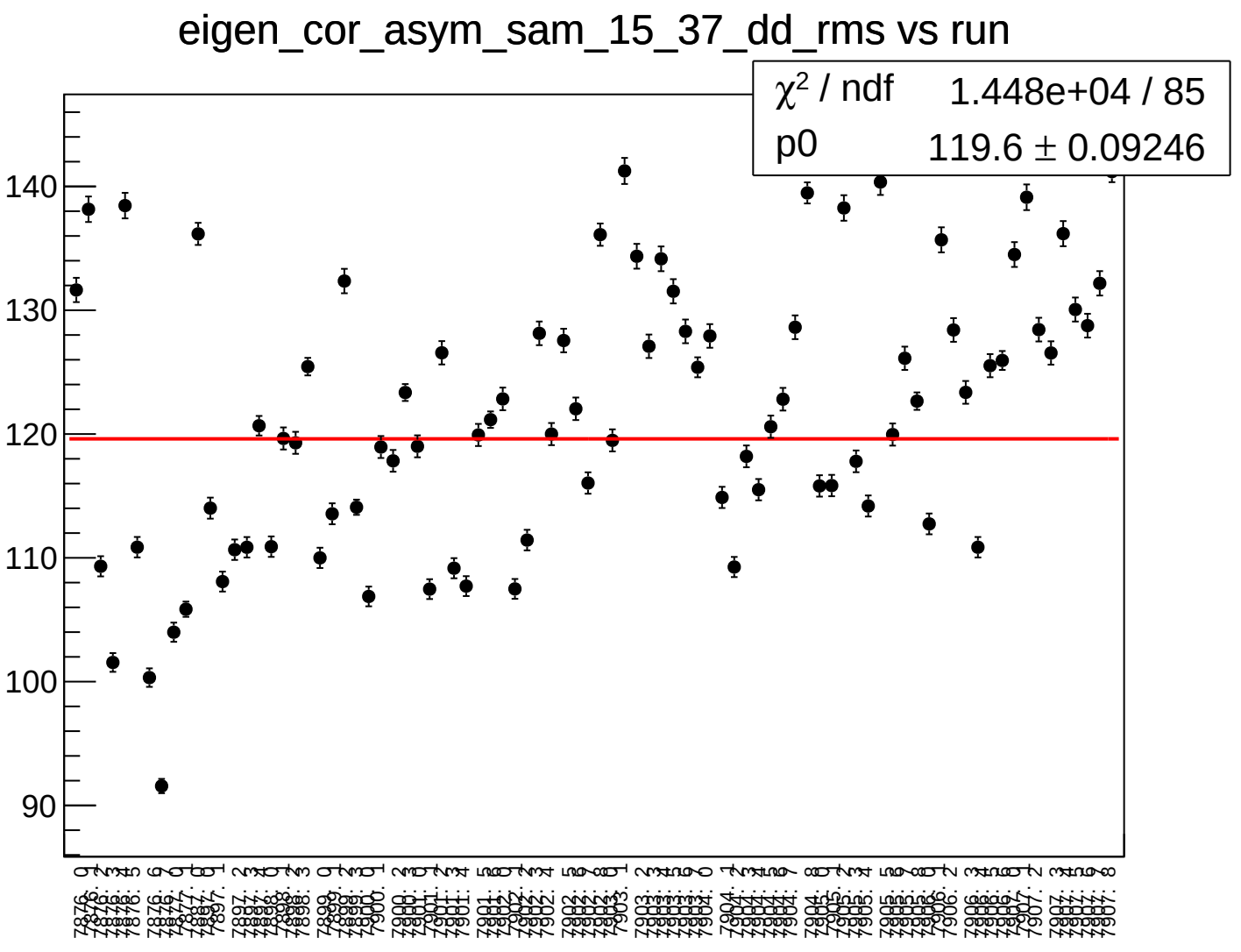

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.448e+04 / 85
p0 119.6 ± 0.09246
140
130
120
110
100
90

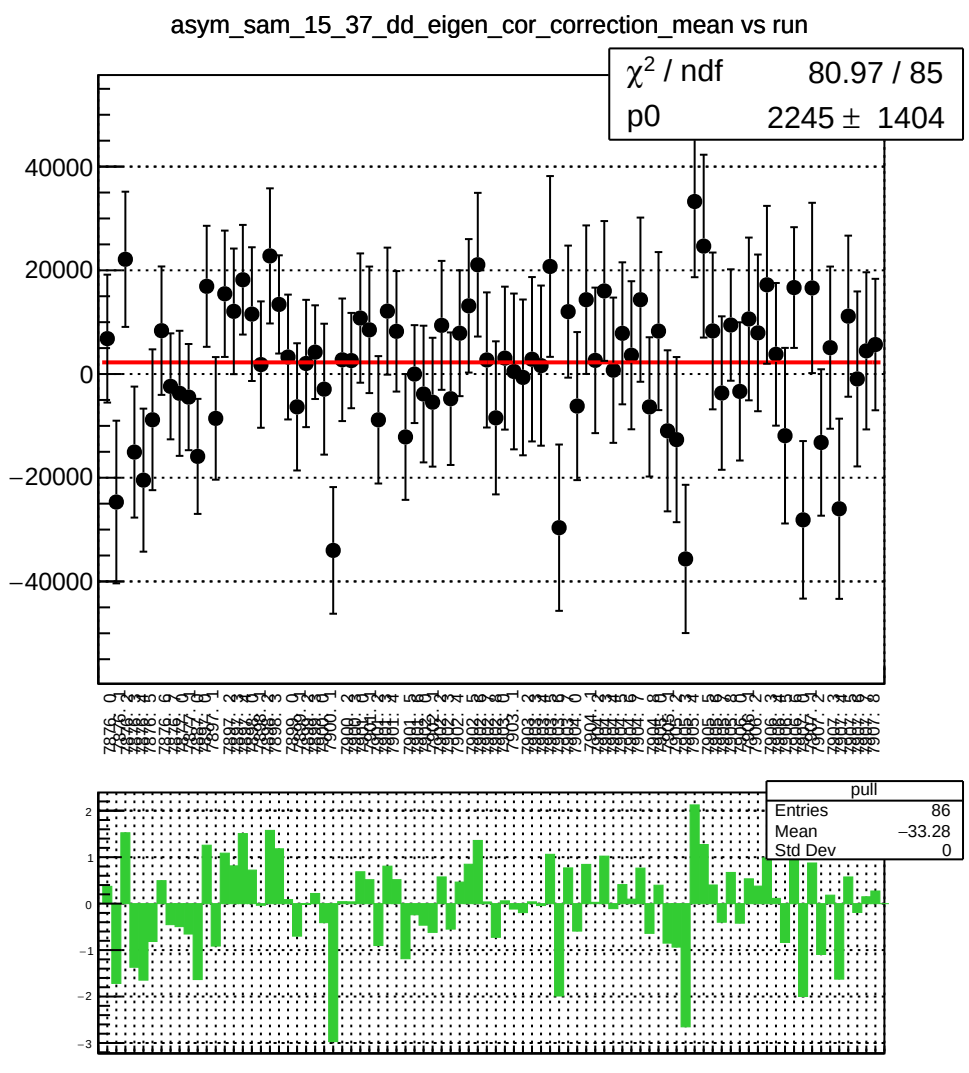

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 80.97 / 85
p0 2245 ± 1404
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −33.28
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01413
Std Dev 0.9702
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

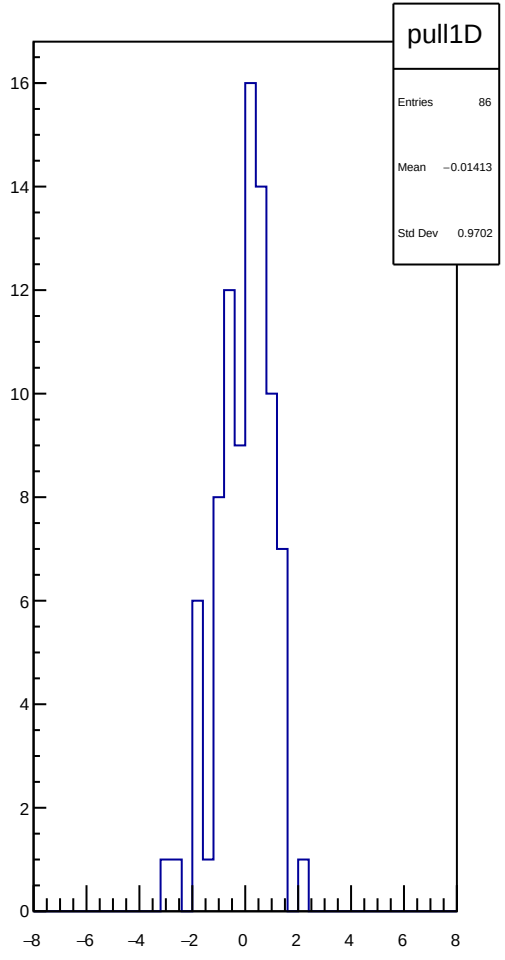

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 2.027e+04 / 85
p0 1282 ± 0.9927
1700
1600
1500
1400
1300
1200
1100

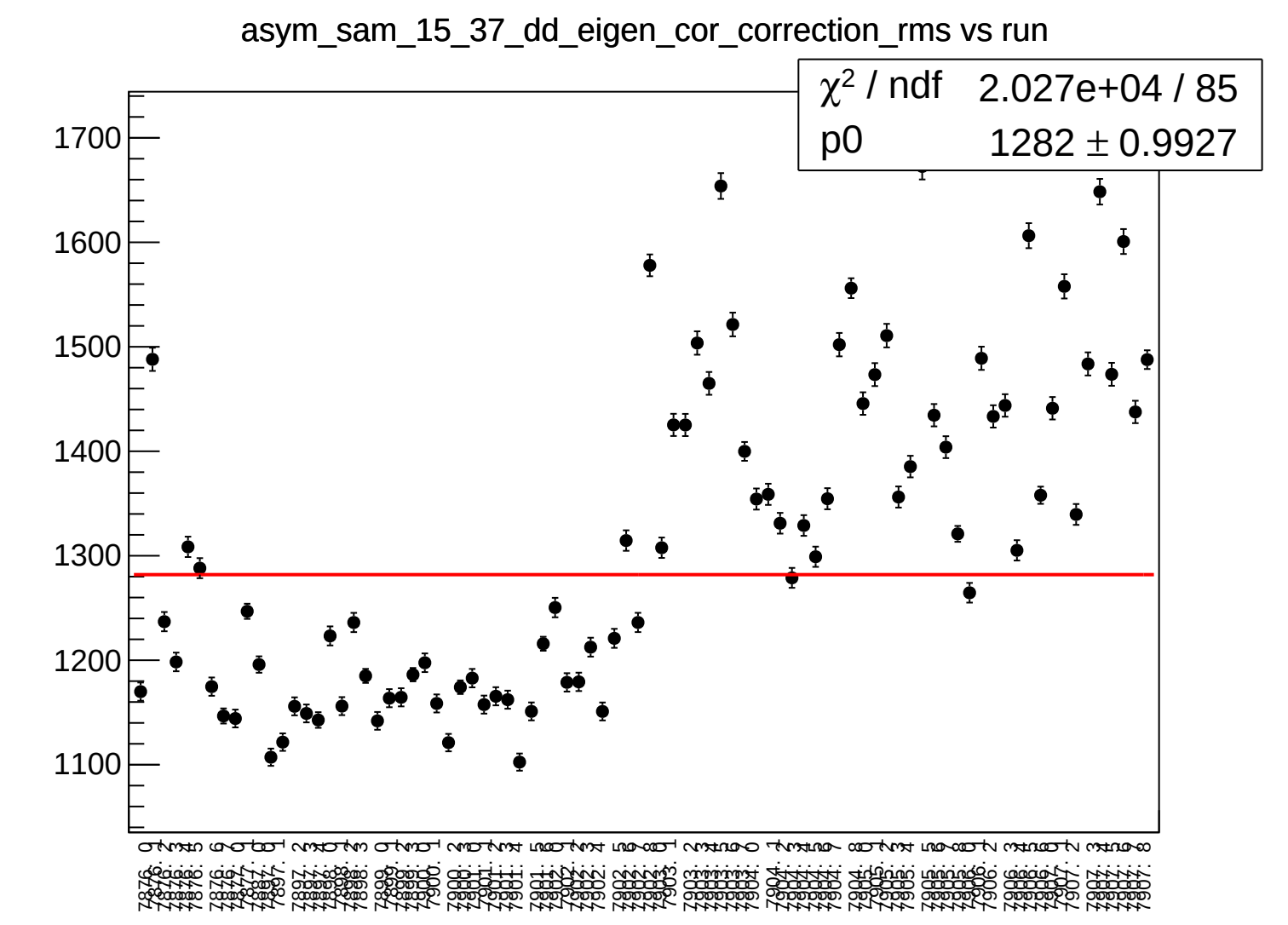

eigen_cor_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 91.14 / 85
p0 165.4 ± 130.8
pull
Entries 86
Mean 1037
Std Dev 0

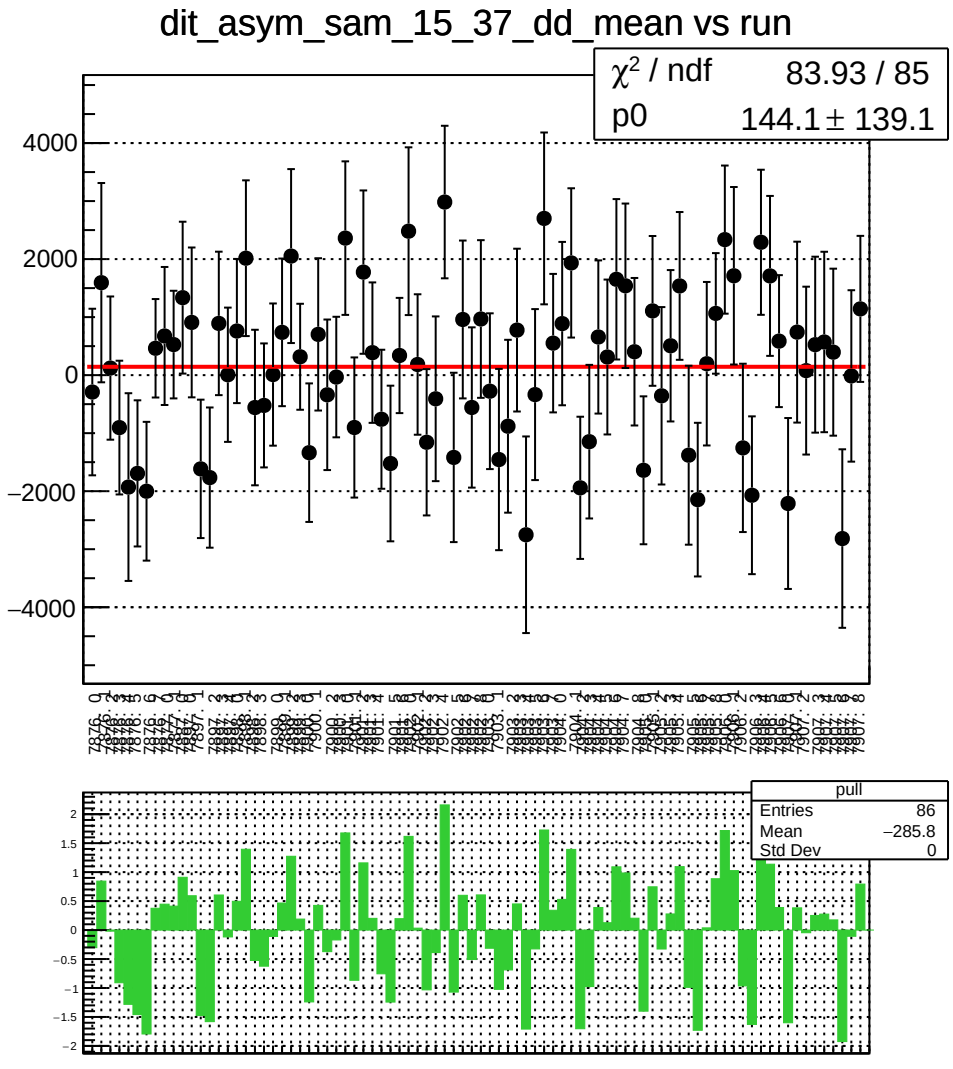

pull1D
Entries 86
Mean 0.002797
Std Dev 1.029

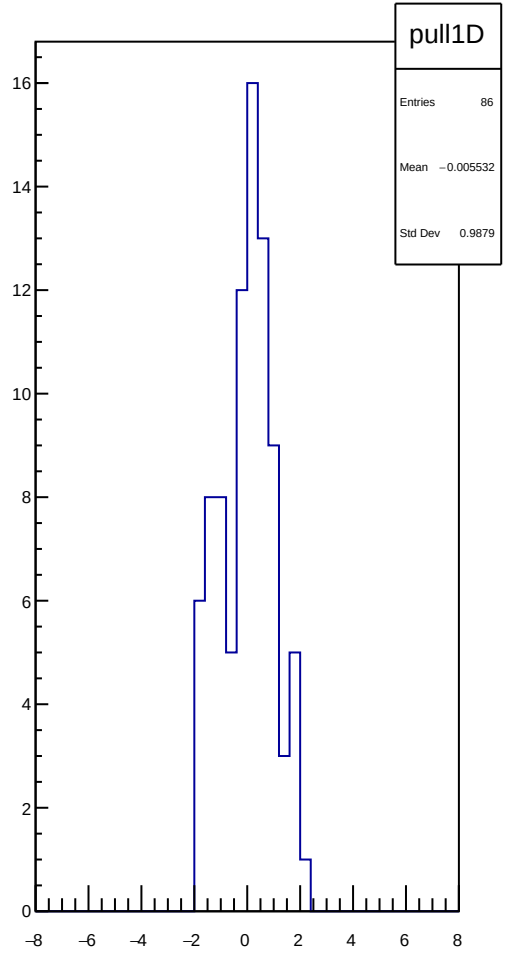

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.448e+04 / 85
p0 119.6 ± 0.09246
140
130
120
110
100
90

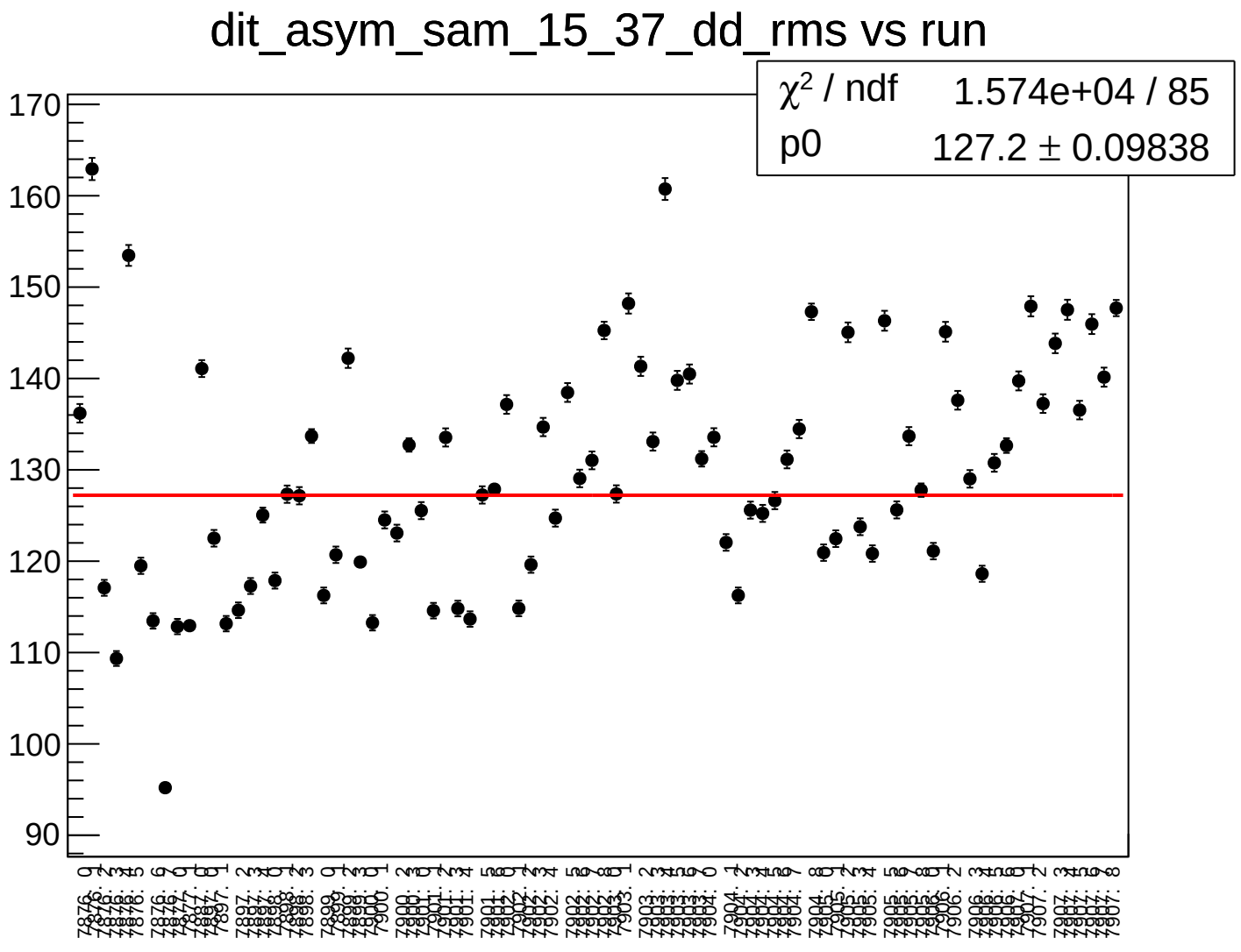

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.97 / 85
p0 2245 ± 1404
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −33.28
Std Dev 0
2
1
0
−1
−2
−3

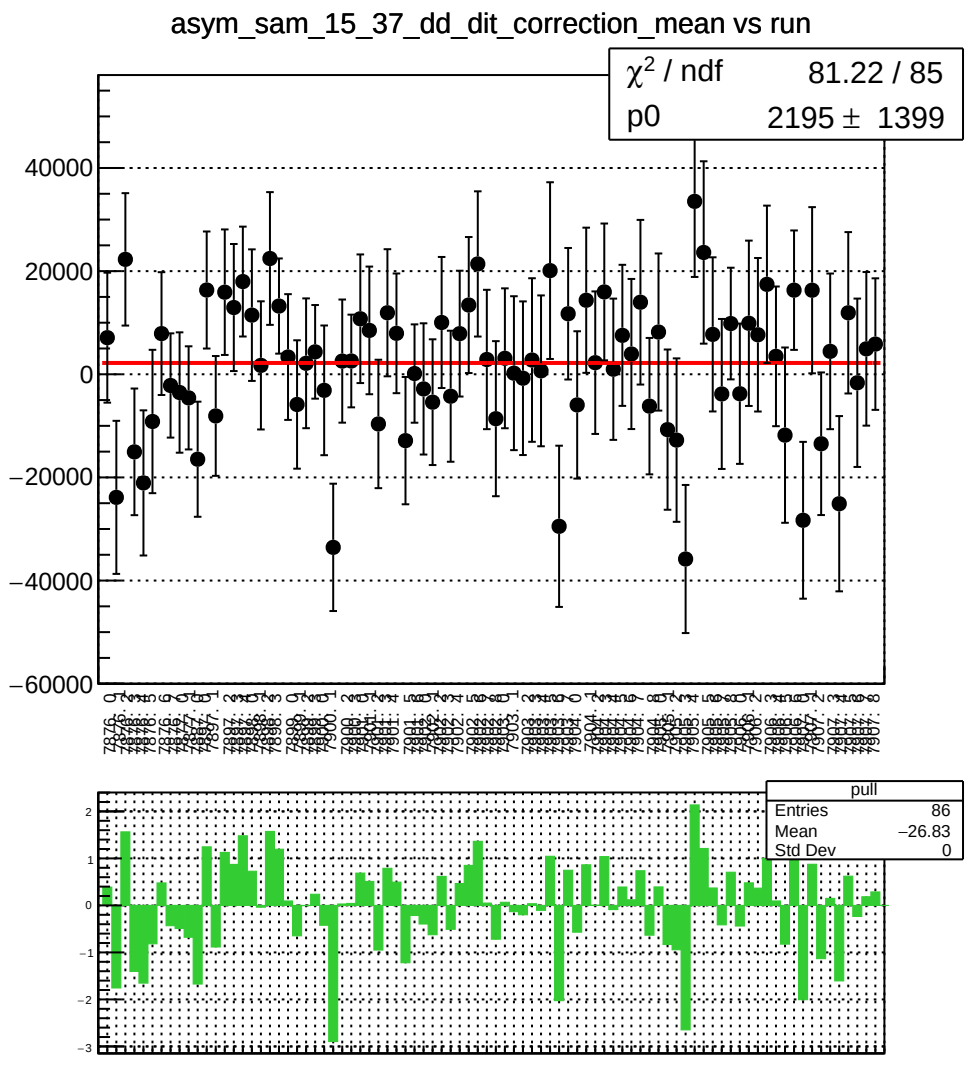

pull1D
Entries 86
Mean −0.01413
Std Dev 0.9702
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

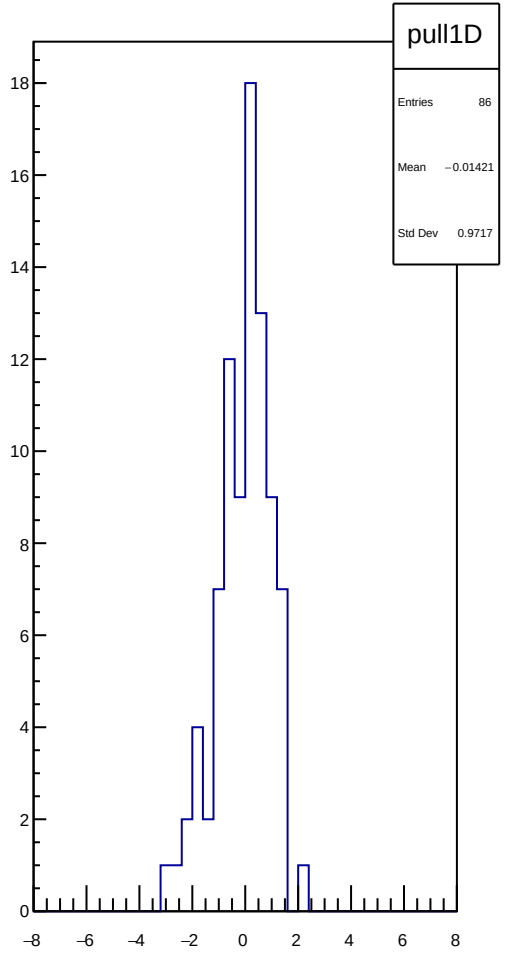

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.027e+04 / 85
p0 1282 ± 0.9927
1700
1600
1500
1400
1300
1200
1100

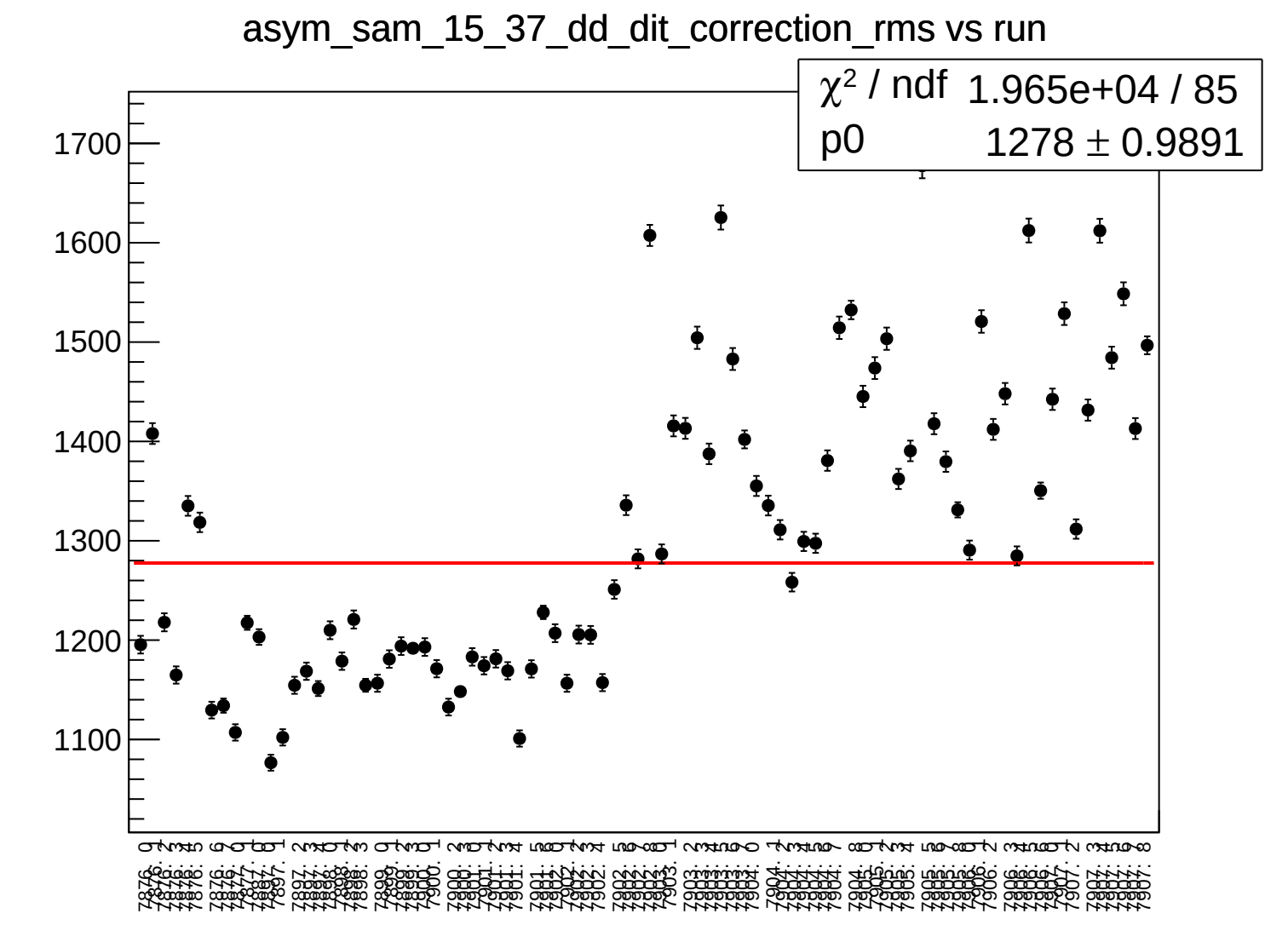

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 83.93 / 85
p0 144.1 ± 139.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −285.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

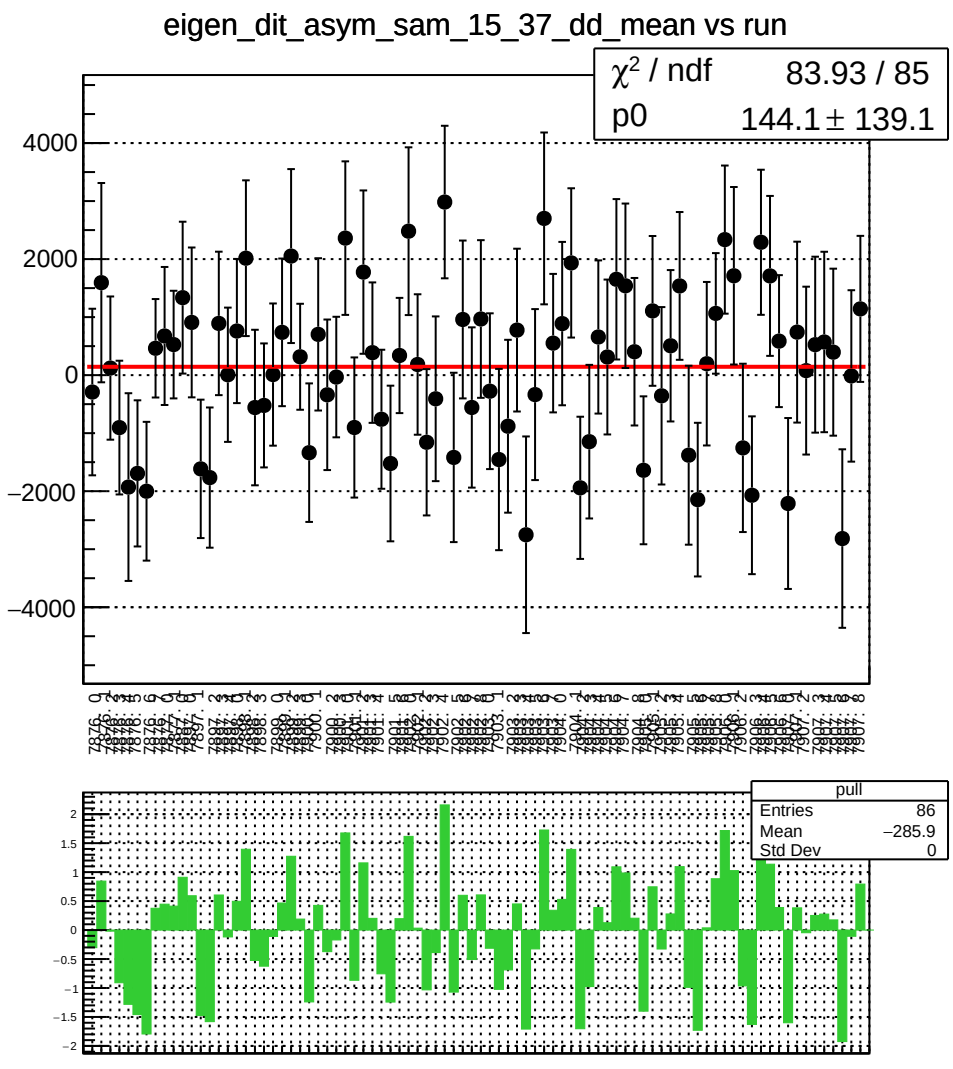

pull1D
Entries 86
Mean −0.005532
Std Dev 0.9879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

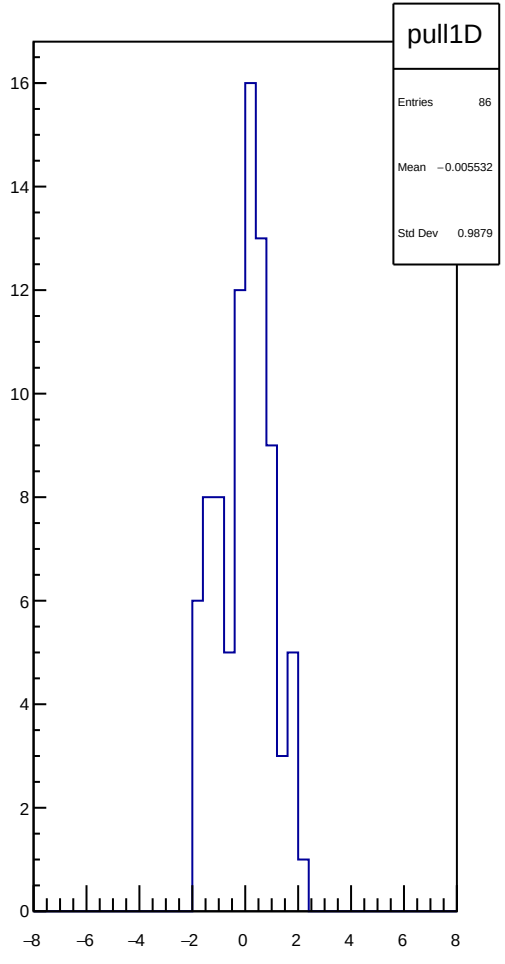

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.574e+04 / 85
p0 127.2 ± 0.09838
170
160
150
140
130
120
110
100
90

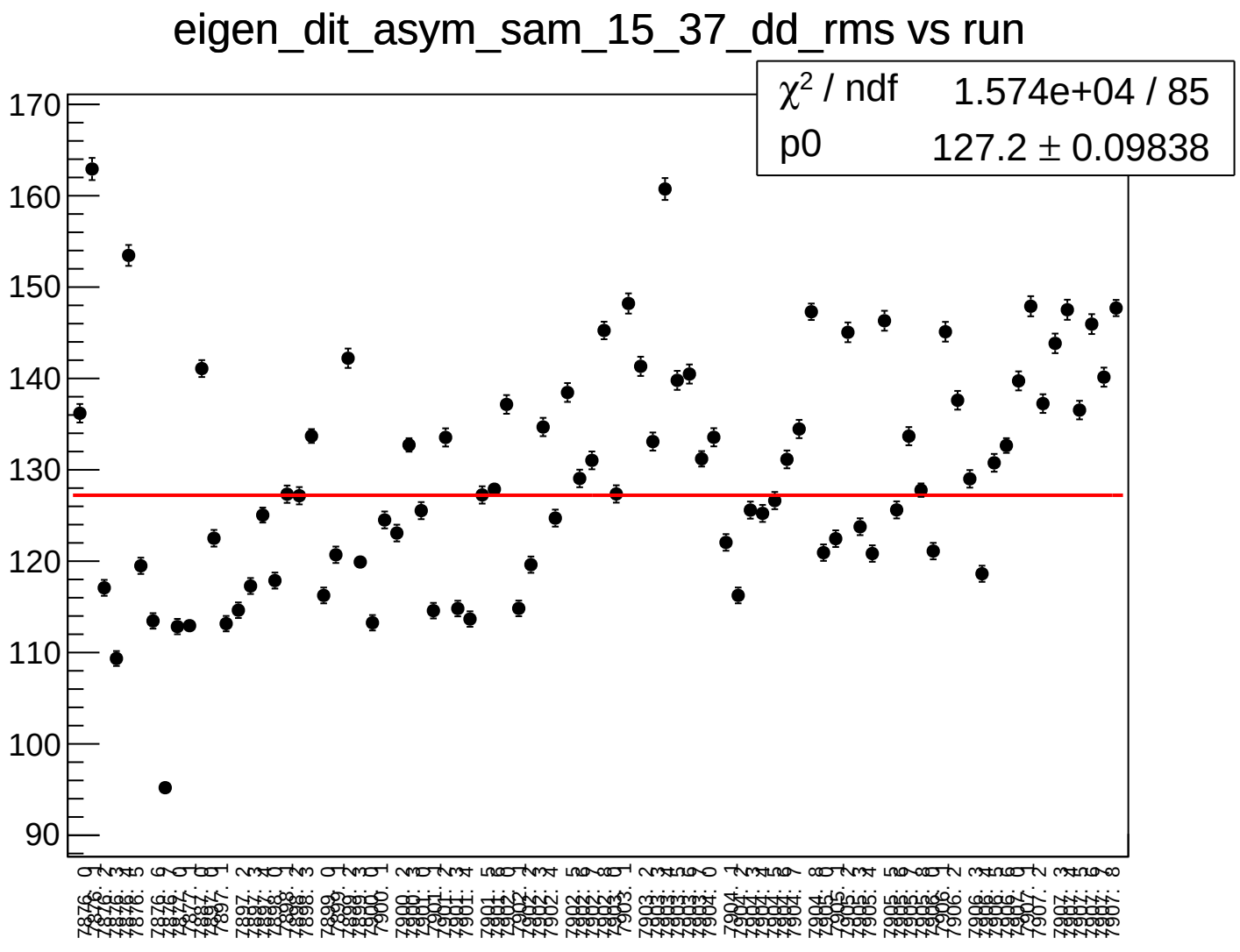

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 81.22 / 85
p0 2195 ± 1399
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −26.83
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.01421
Std Dev 0.9717
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

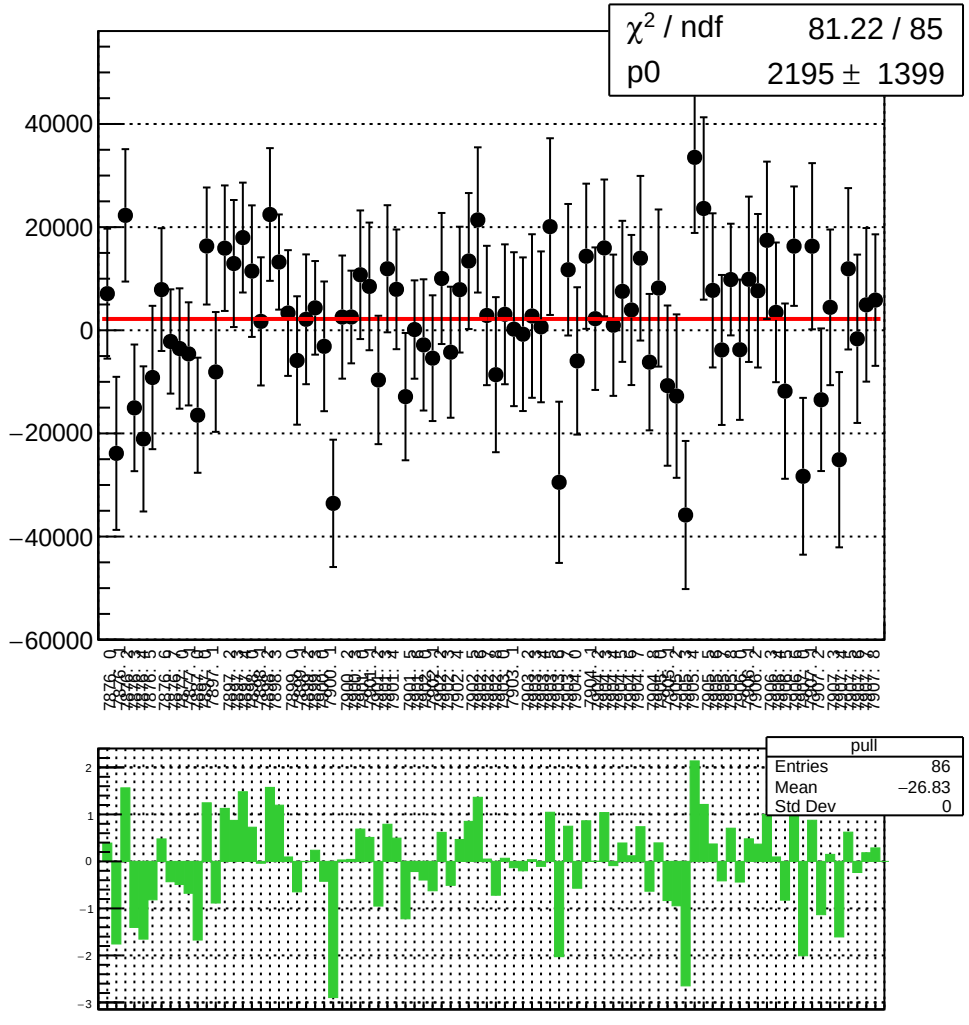

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.965e+04 / 85
p0 1278 ± 0.9891
1700
1600
1500
1400
1300
1200
1100

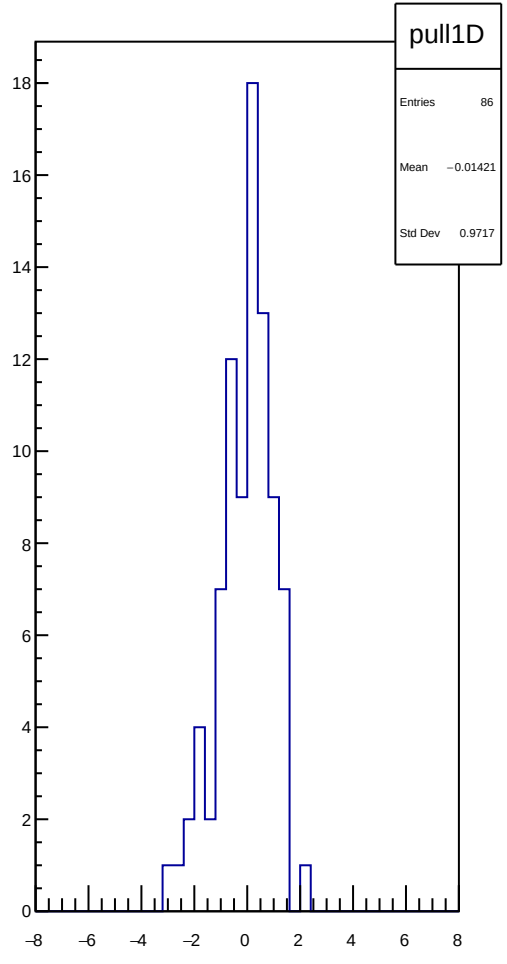

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 83.93 / 85
p0 144.1 ± 139.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −285.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

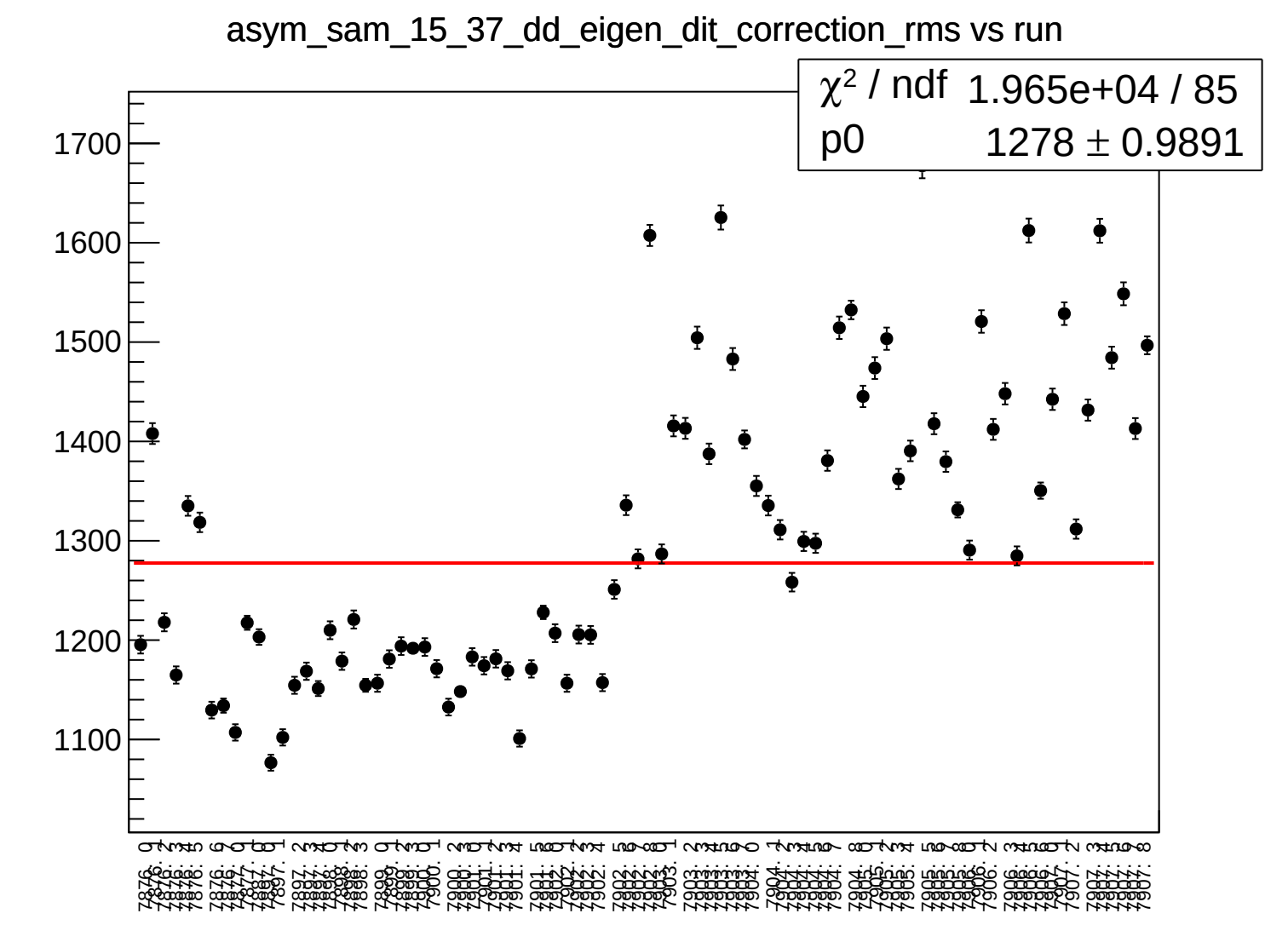

pull1D
Entries 86
Mean −0.005532
Std Dev 0.9879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

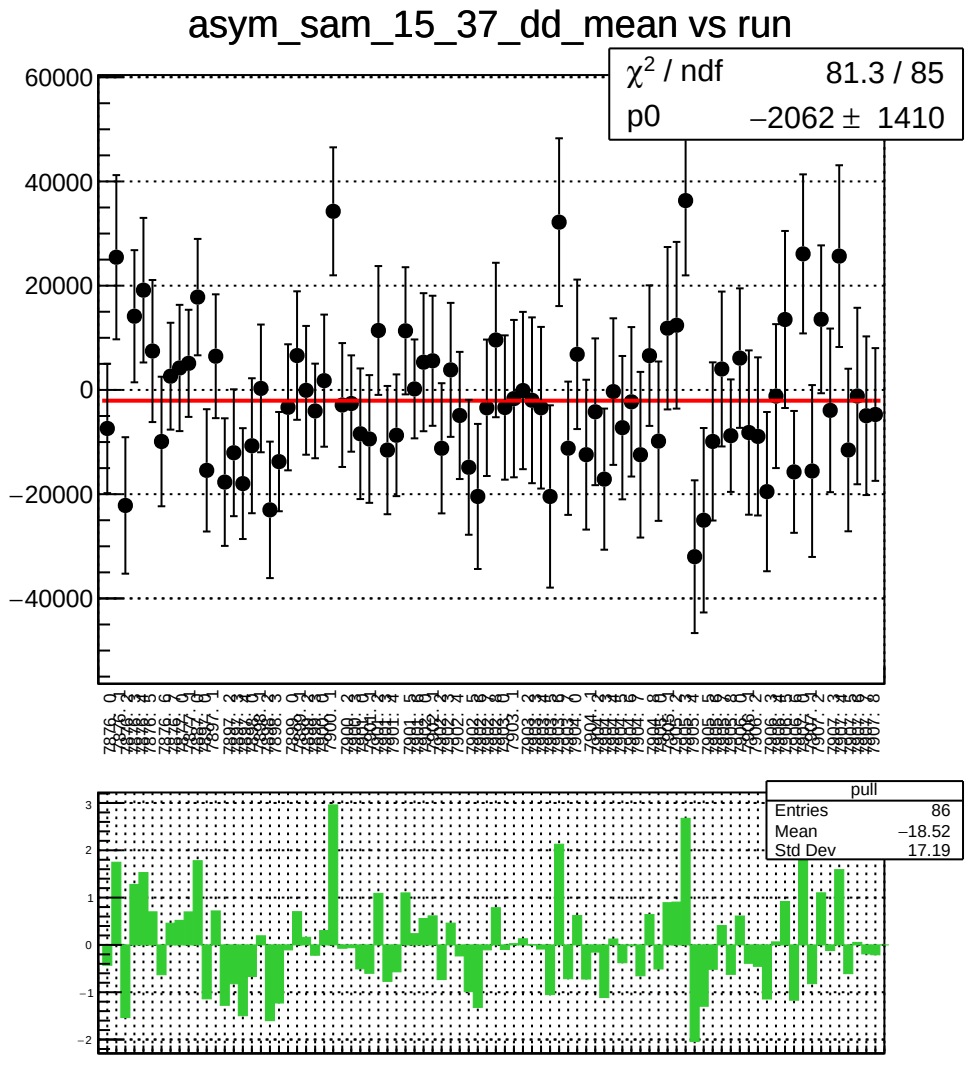

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.574e+04 / 85
p0 127.2 ± 0.09838
170
160
150
140
130
120
110
100
90

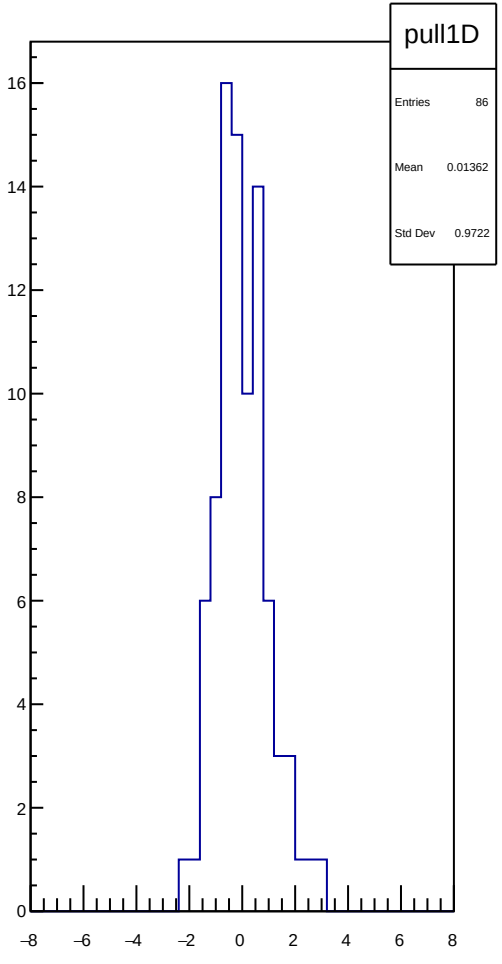
asym_sam_15_37_dd_eigen_dit_correction_mean vs run

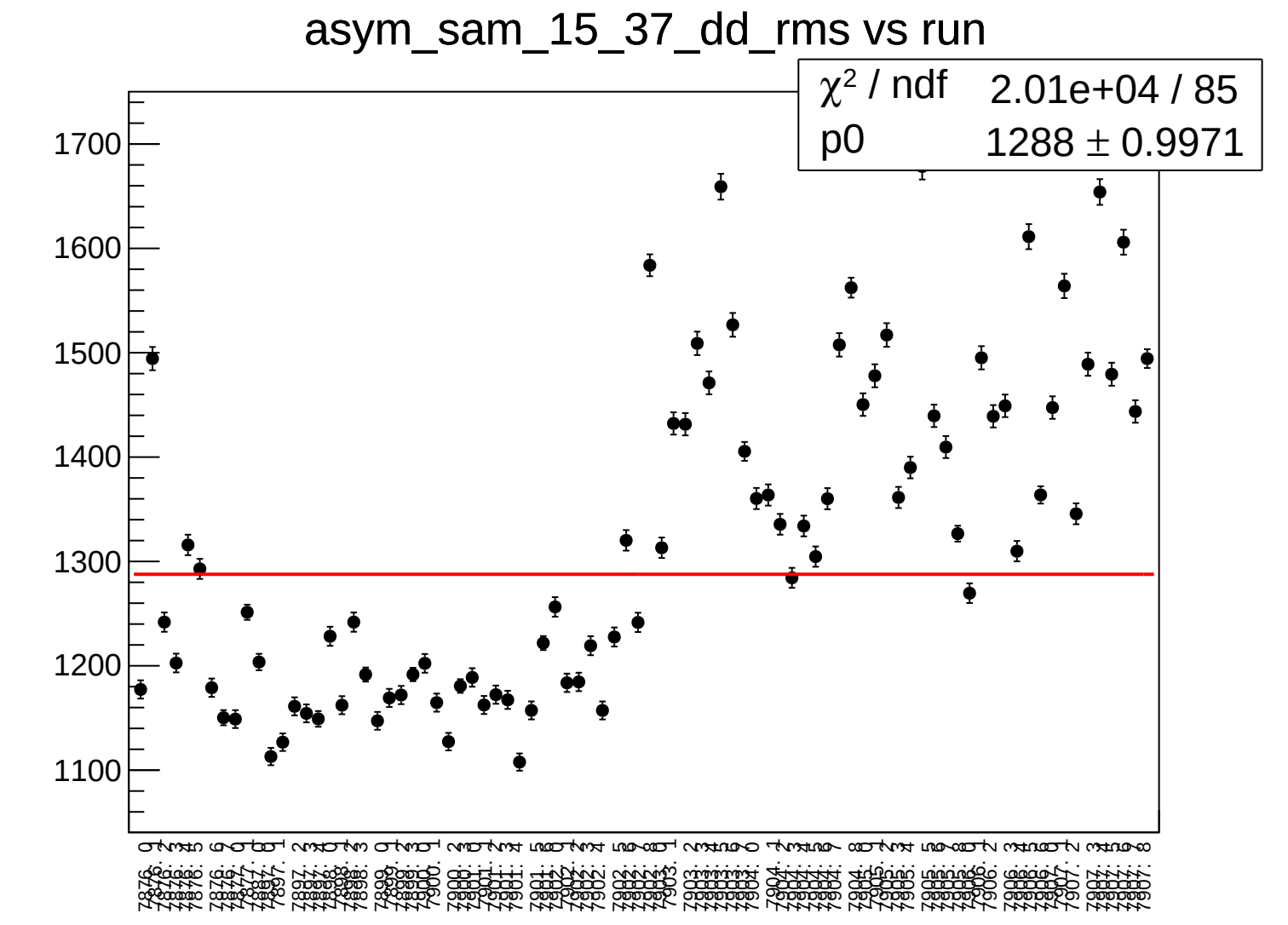


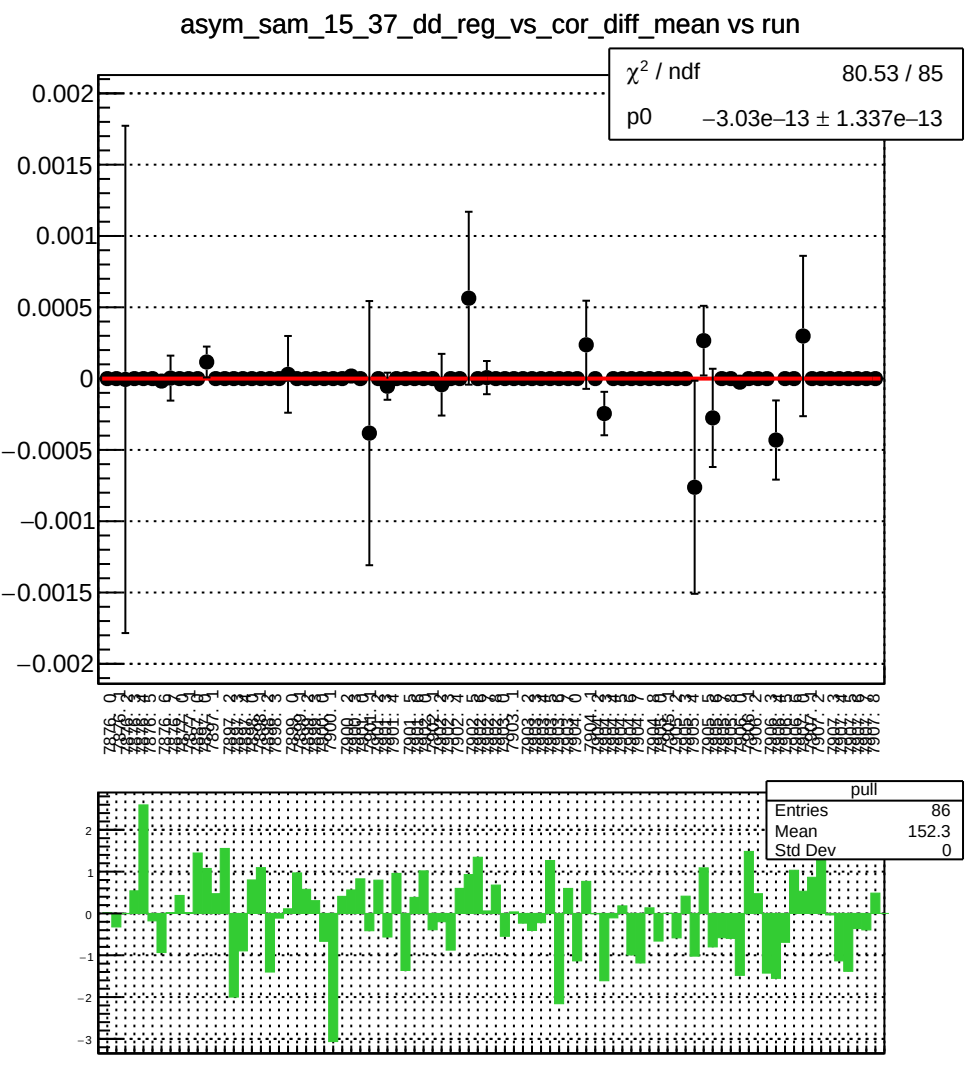


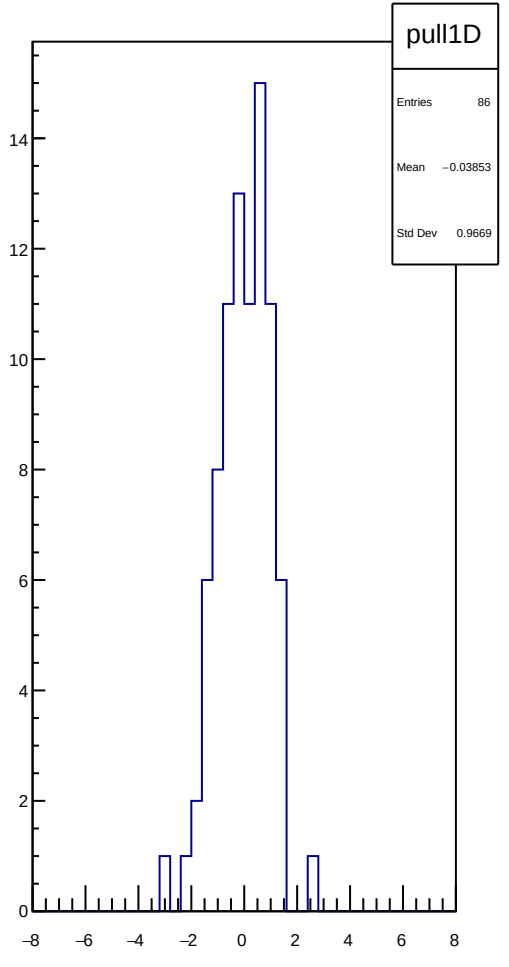

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.965e+04 / 85
p0 1278 ± 0.9891
1700
1600
1500
1400
1300
1200
1100

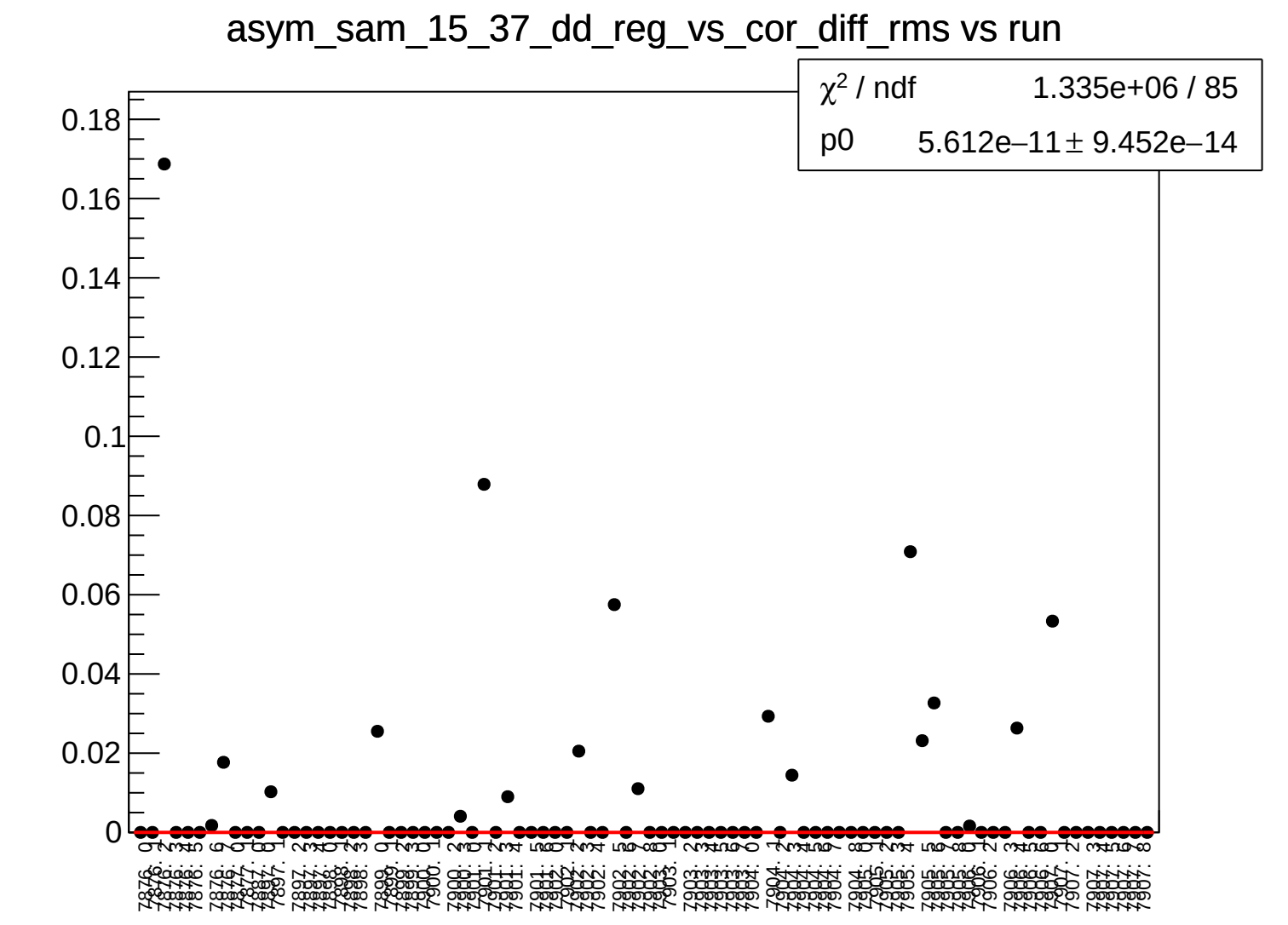

asym_sam_15_37_dd_mean vs run
χ² / ndf 81.3 / 85
p0 −2062 ± 1410
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −18.52
Std Dev 17.19
3
2
1
0
−1
−2

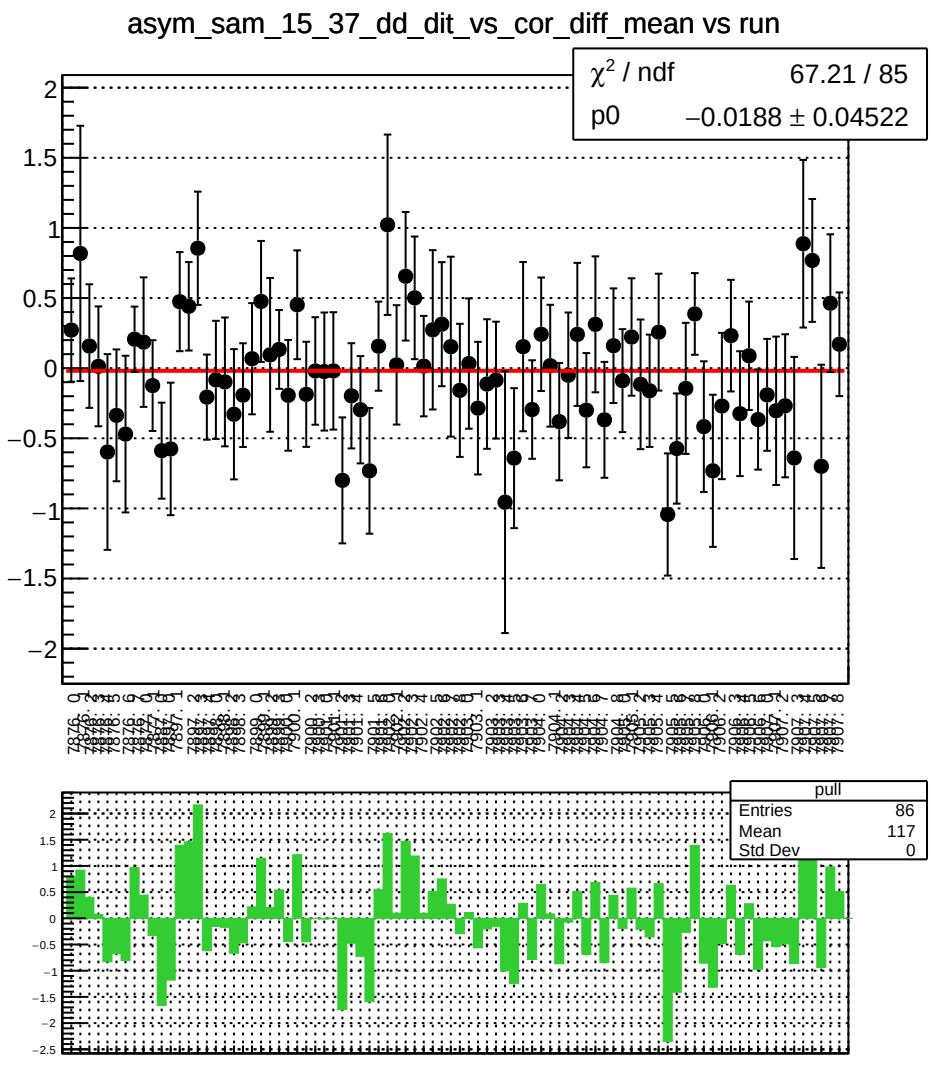

pull1D
Entries 86
Mean 0.01362
Std Dev 0.9722
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

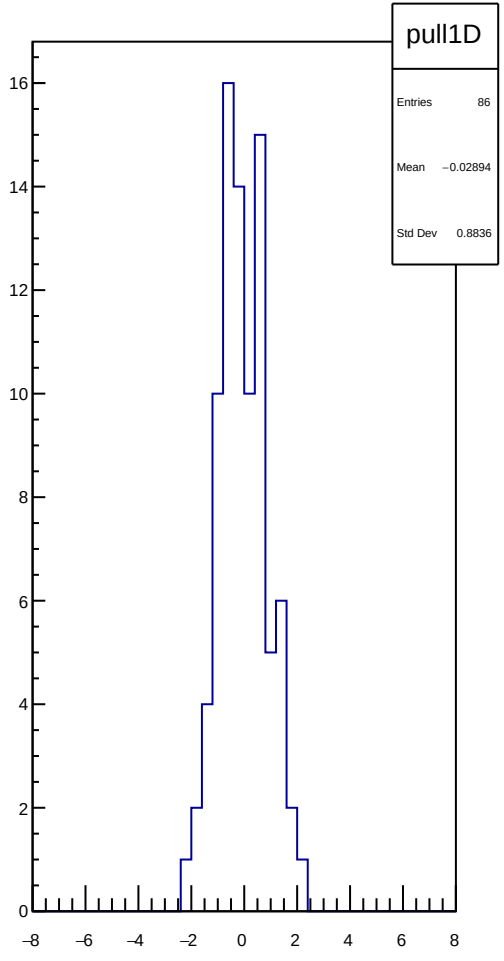

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.01e+04 / 85
p0 1288 ± 0.9971
1700
1600
1500
1400
1300
1200
1100

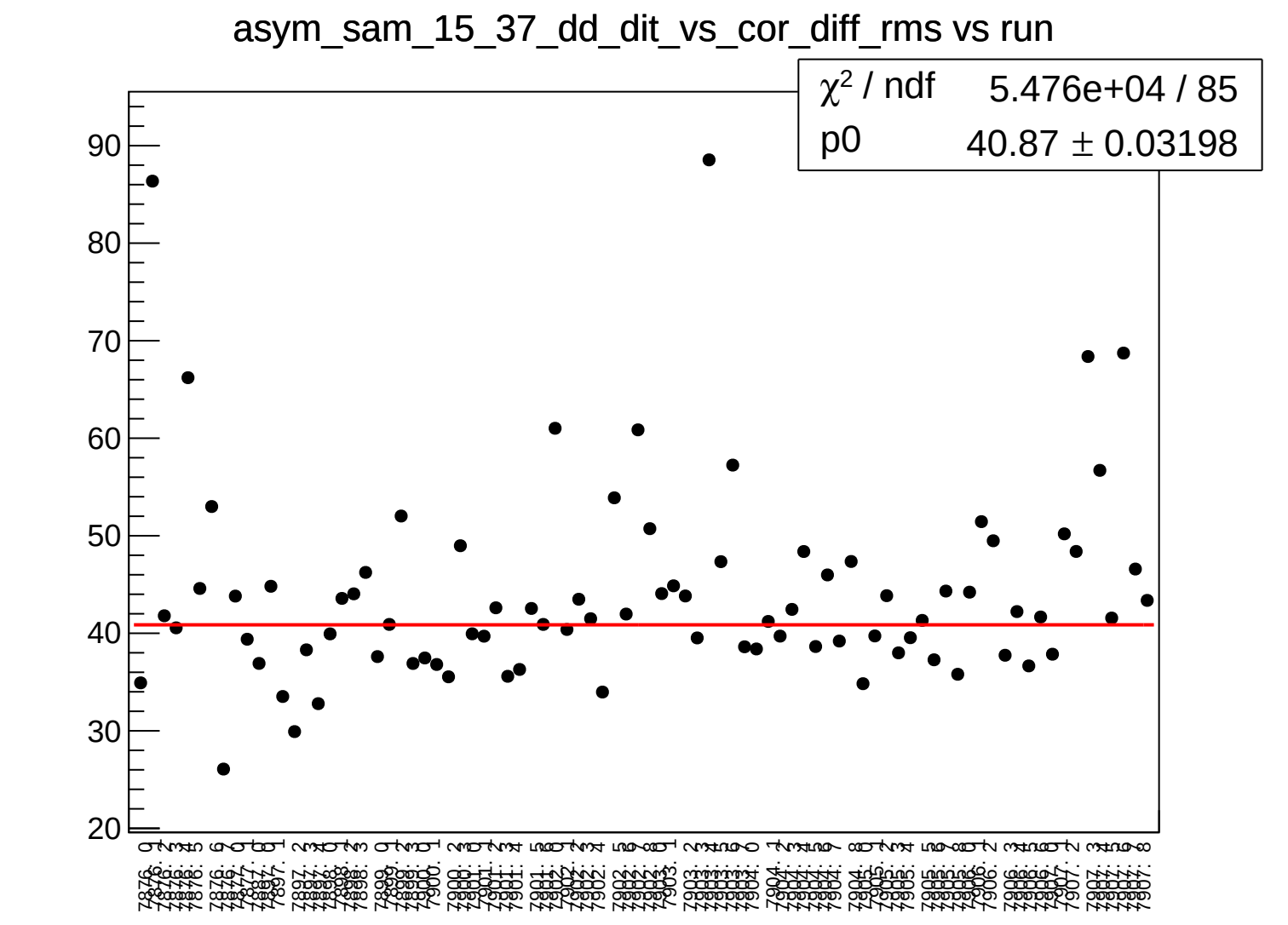

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.53 / 85
p0 −3.03e−13 ± 1.337e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 86
Mean 152.3
Std Dev 0
2
1
0
−1
−2
−3

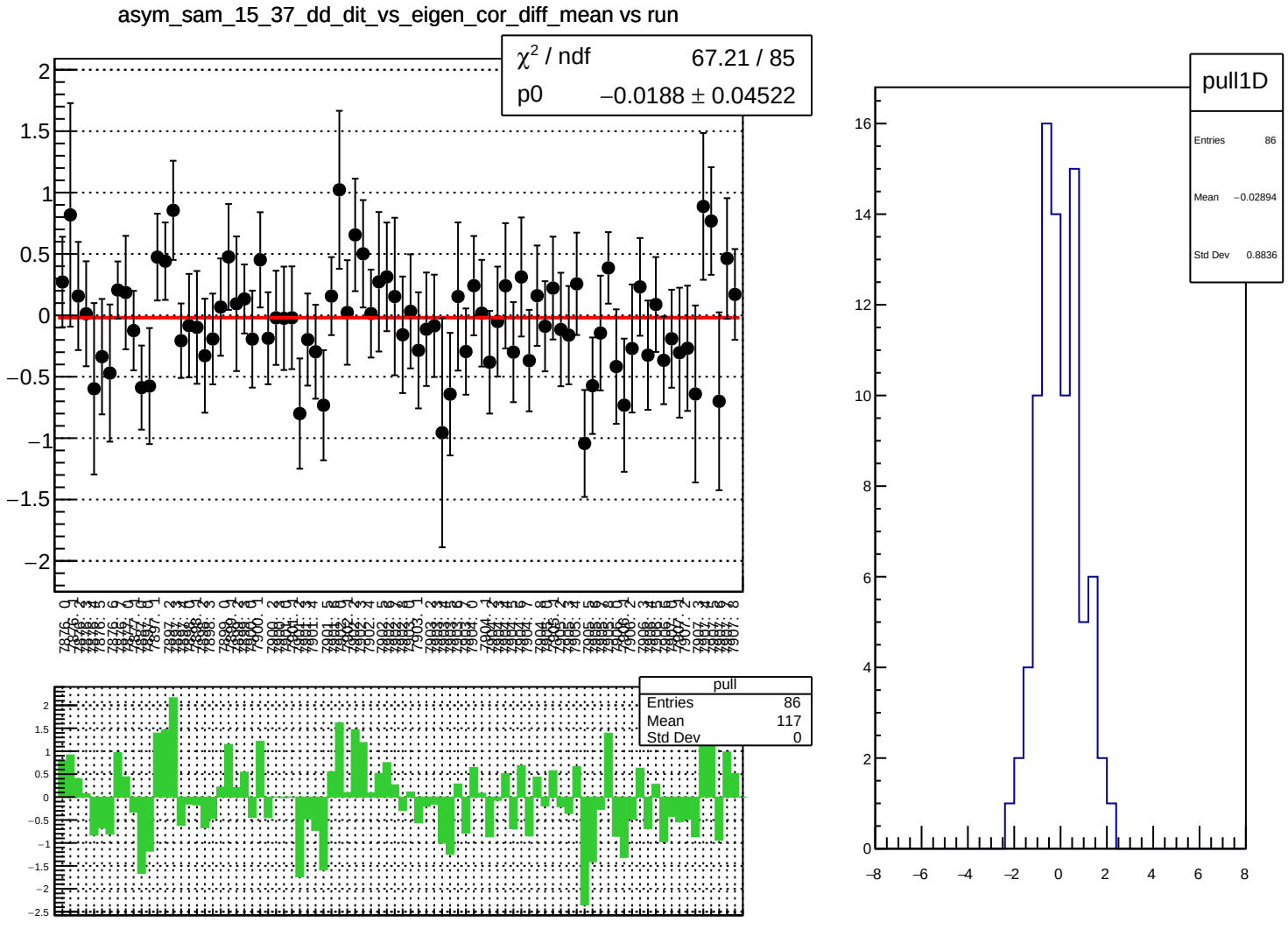

pull1D
Entries 86
Mean −0.03853
Std Dev 0.9669
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

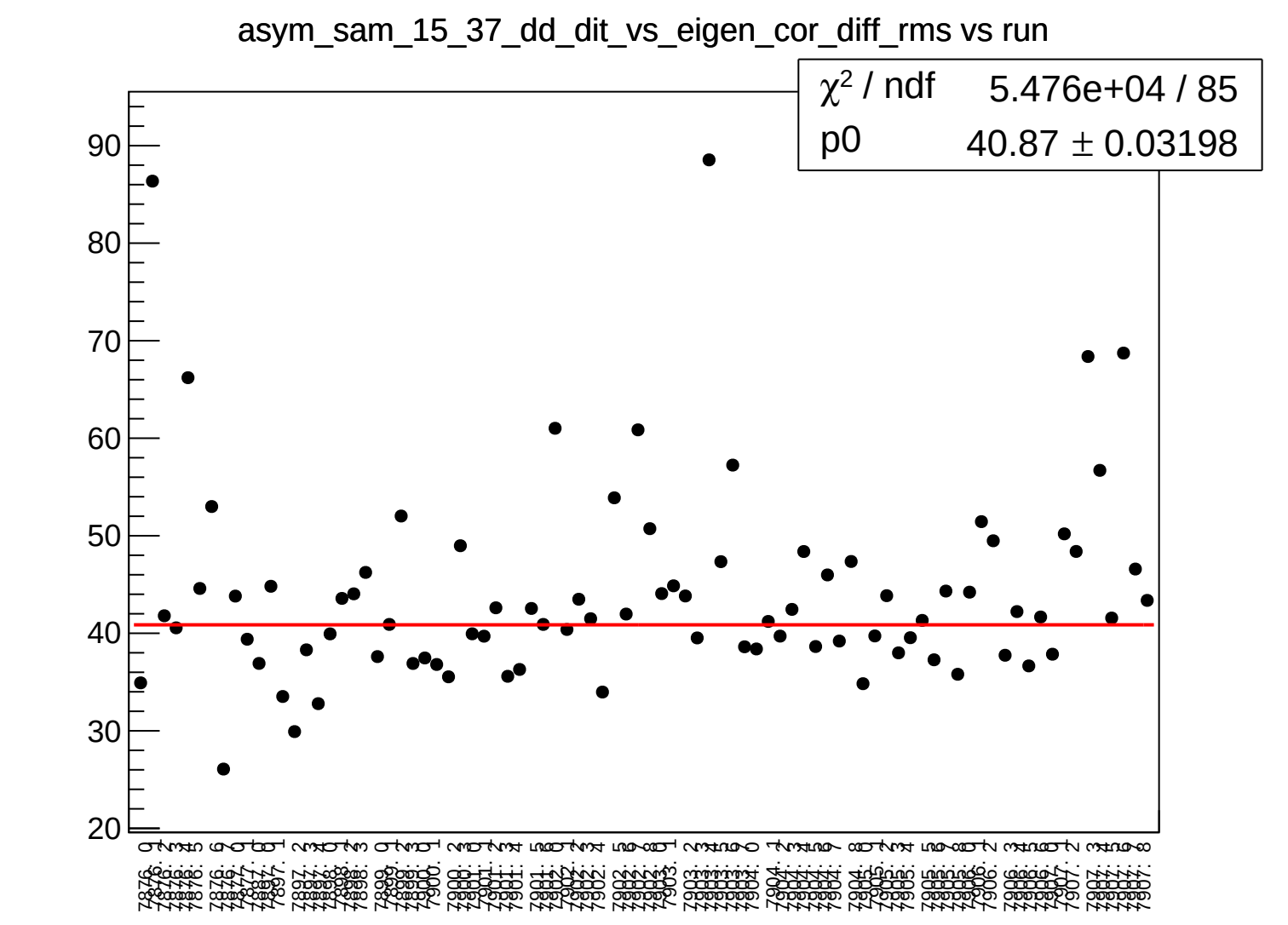

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.335e+06 / 85
p0 5.612e−11 ± 9.452e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

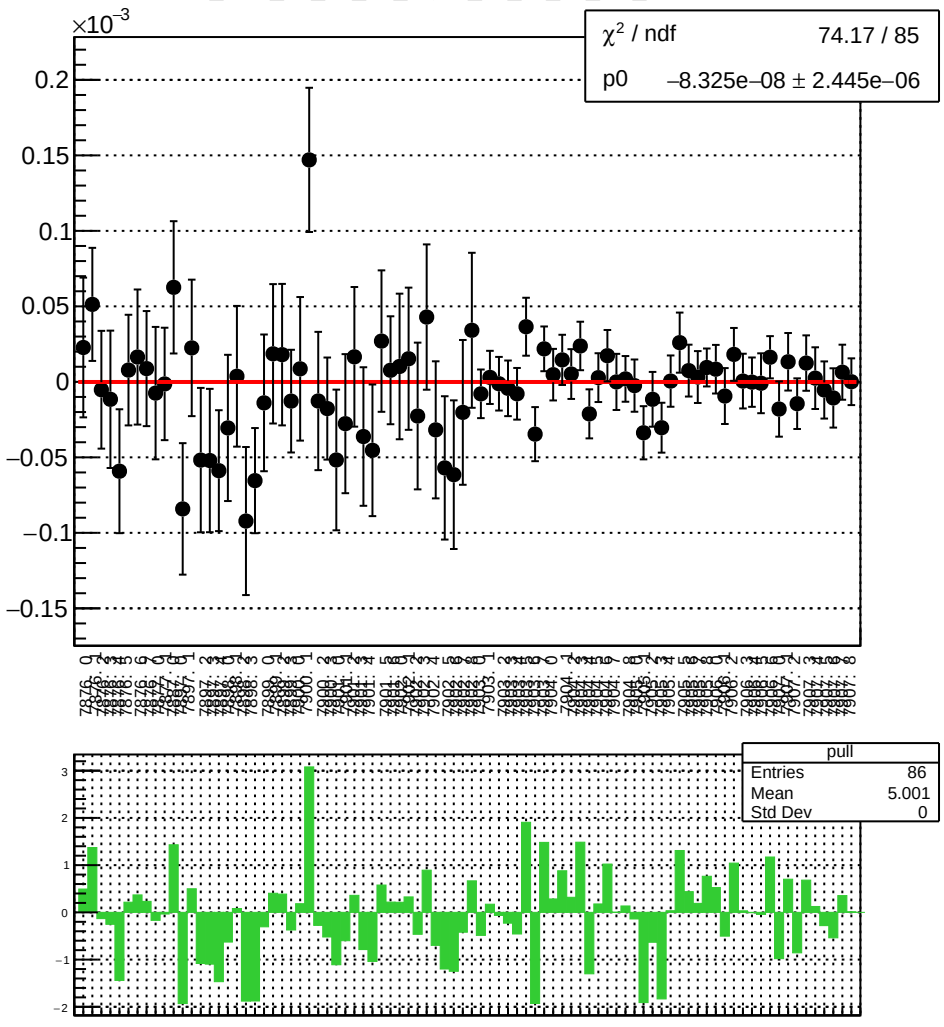

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.21 / 85
p0 −0.0188 ± 0.04522
pull
Entries 86
Mean 117
Std Dev 0

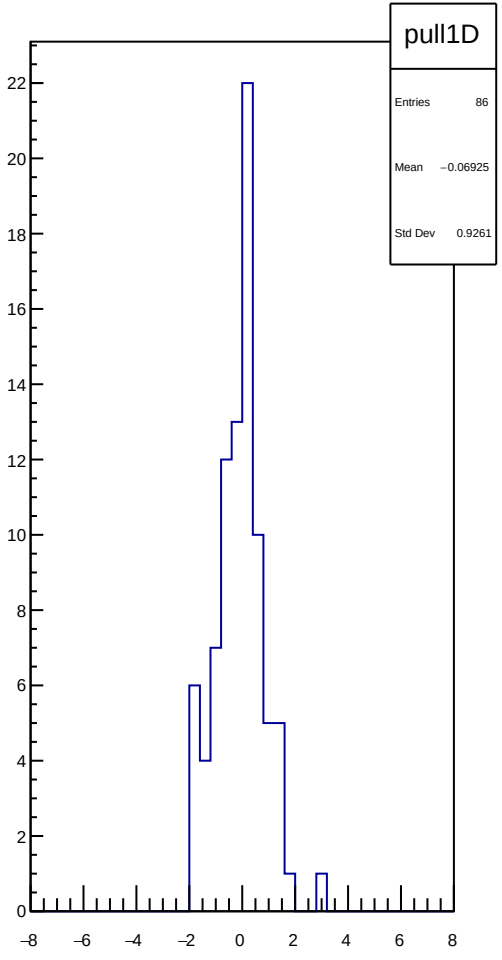

pull1D
Entries 86
Mean −0.02894
Std Dev 0.8836

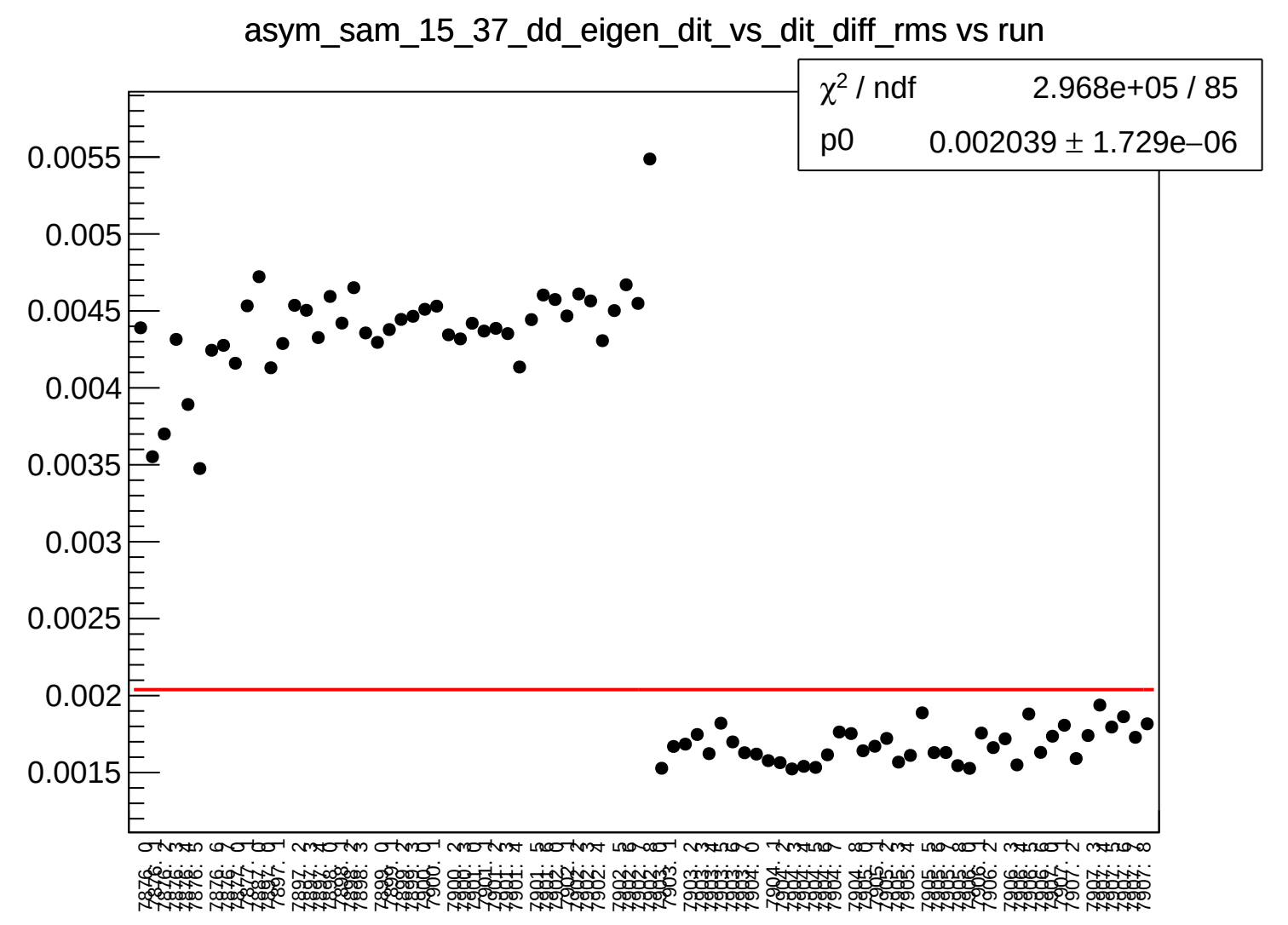

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.476e+04 / 85
p0 40.87 ± 0.03198
90
80
70
60
50
40
30
20

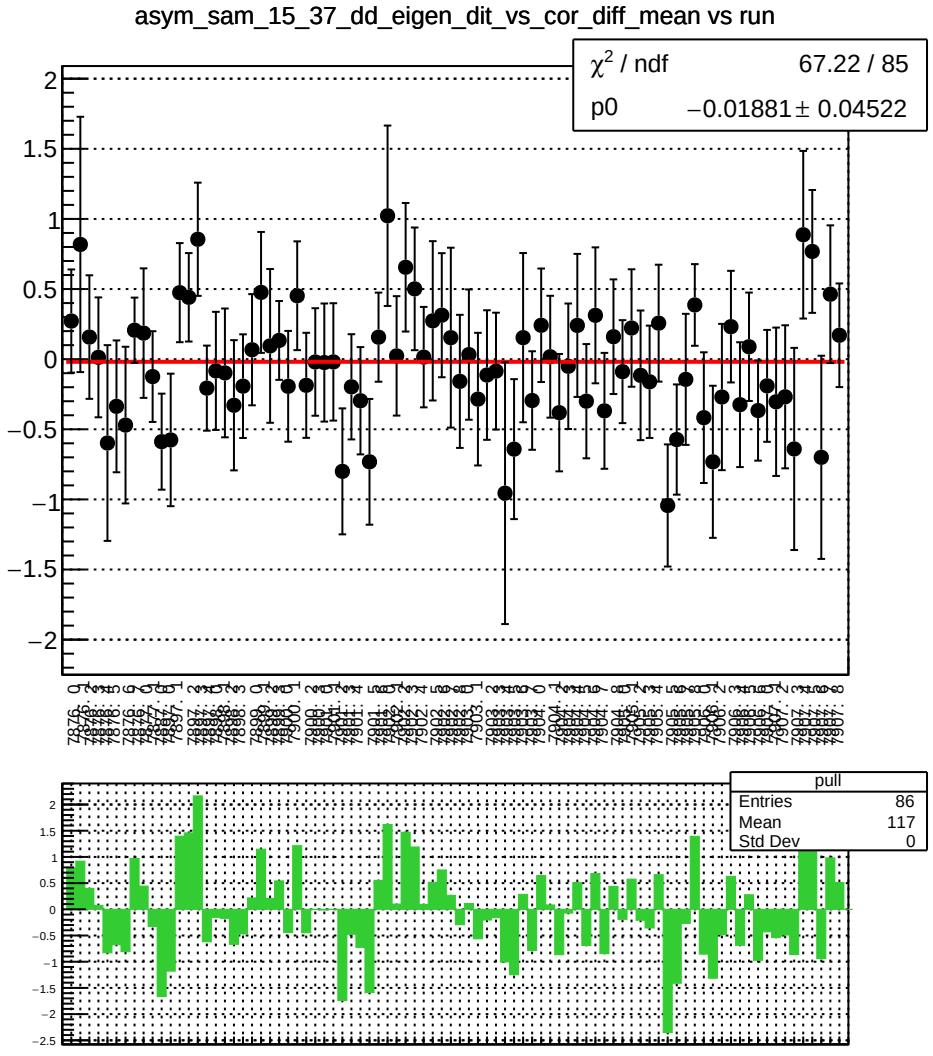

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.21 / 85
p0 −0.0188 ± 0.04522
pull
Entries 86
Mean 117
Std Dev 0
pull1D
Entries 86
Mean −0.02894
Std Dev 0.8836

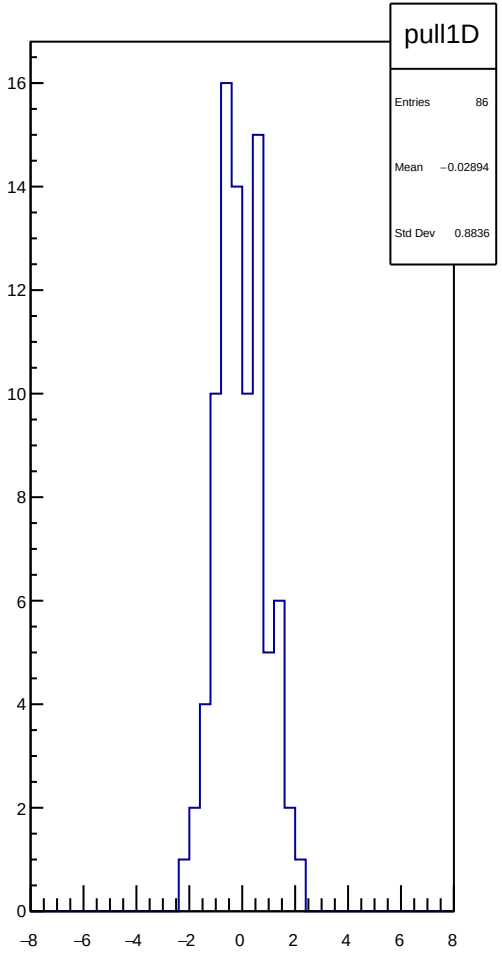

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.476e+04 / 85
p0 40.87 ± 0.03198
90
80
70
60
50
40
30
20

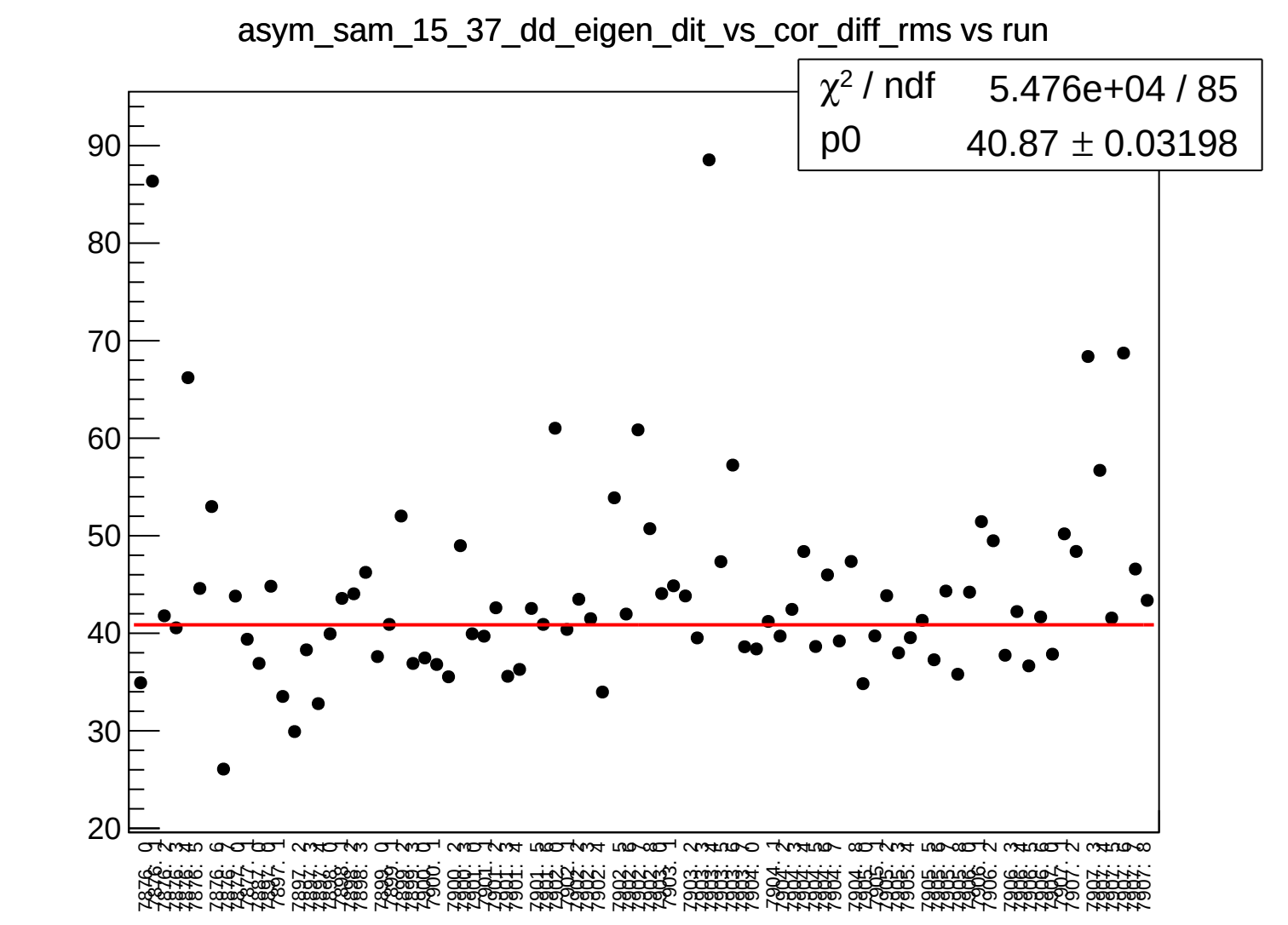

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 74.17 / 85
p0 −8.325e−08 ± 2.445e−06
pull
Entries 86
Mean 5.001
Std Dev 0

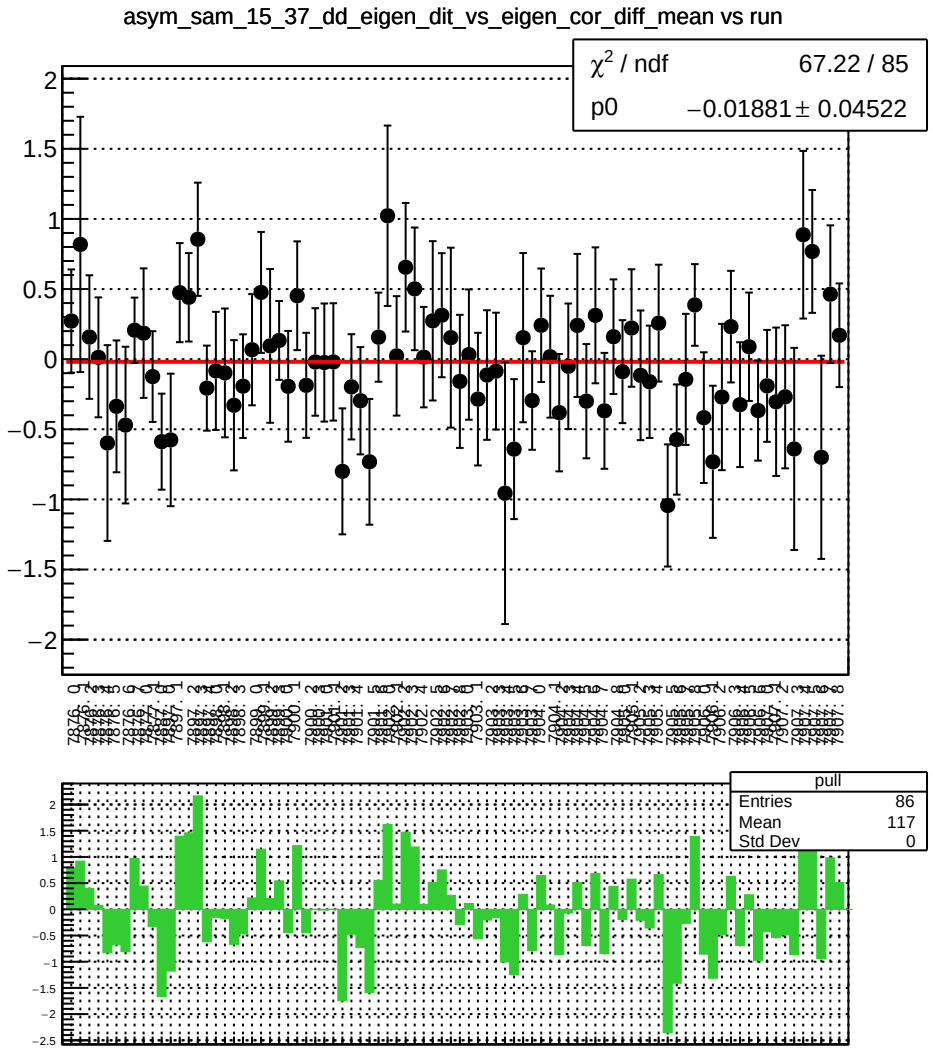

pull1D
Entries 86
Mean −0.06925
Std Dev 0.9261

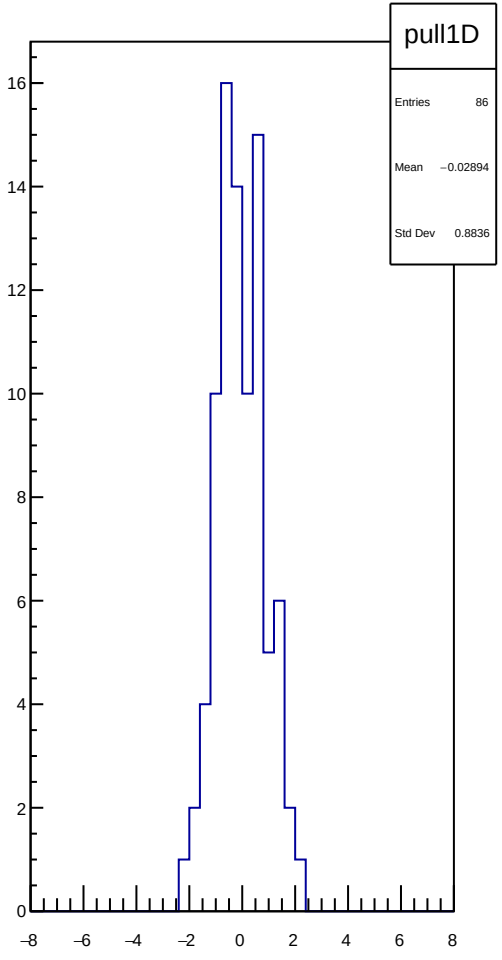

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.968e+05 / 85
p0 0.002039 ± 1.729e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

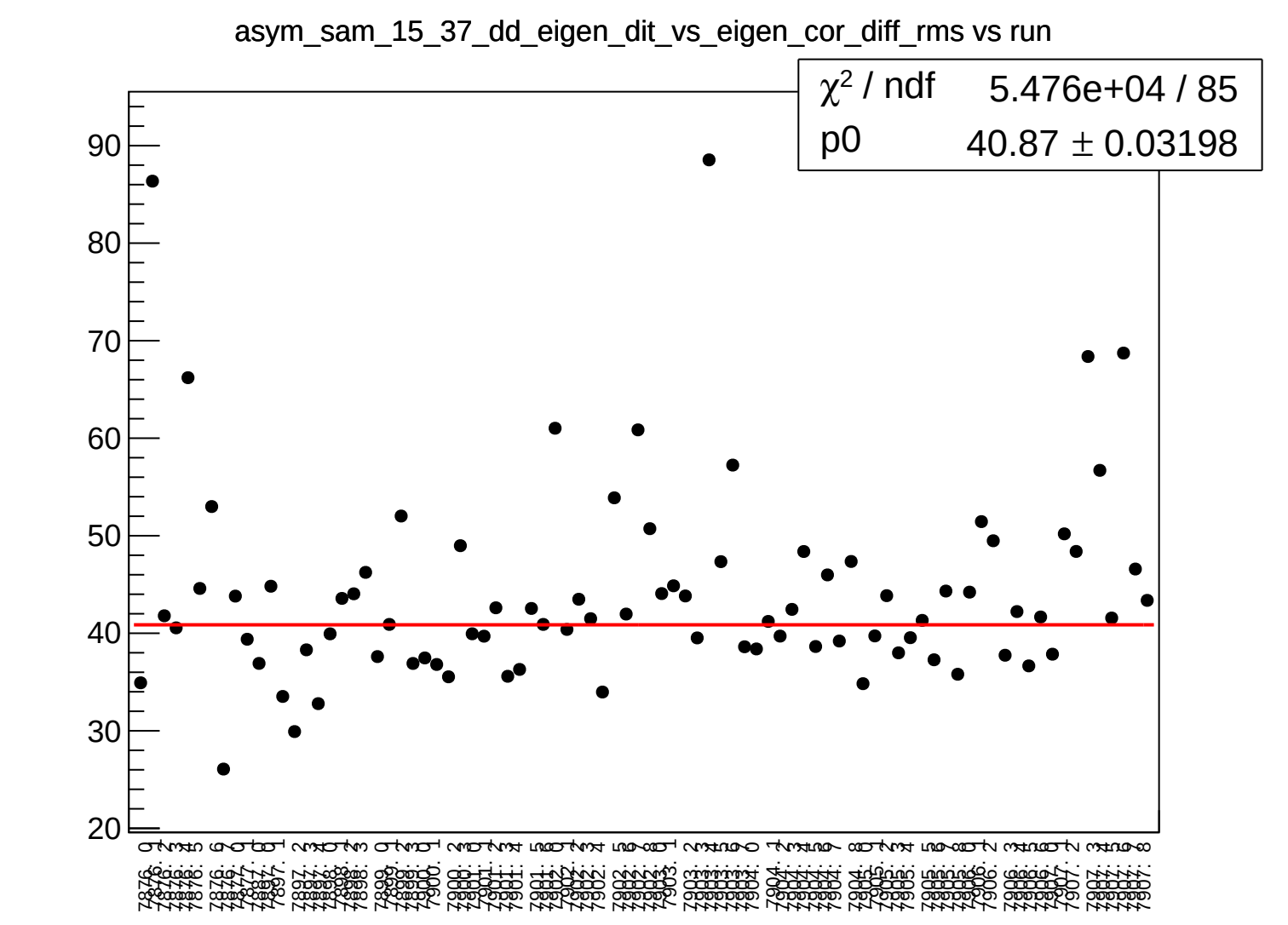

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 67.22 / 85
p0 −0.01881 ± 0.04522
pull
Entries 86
Mean 117
Std Dev 0

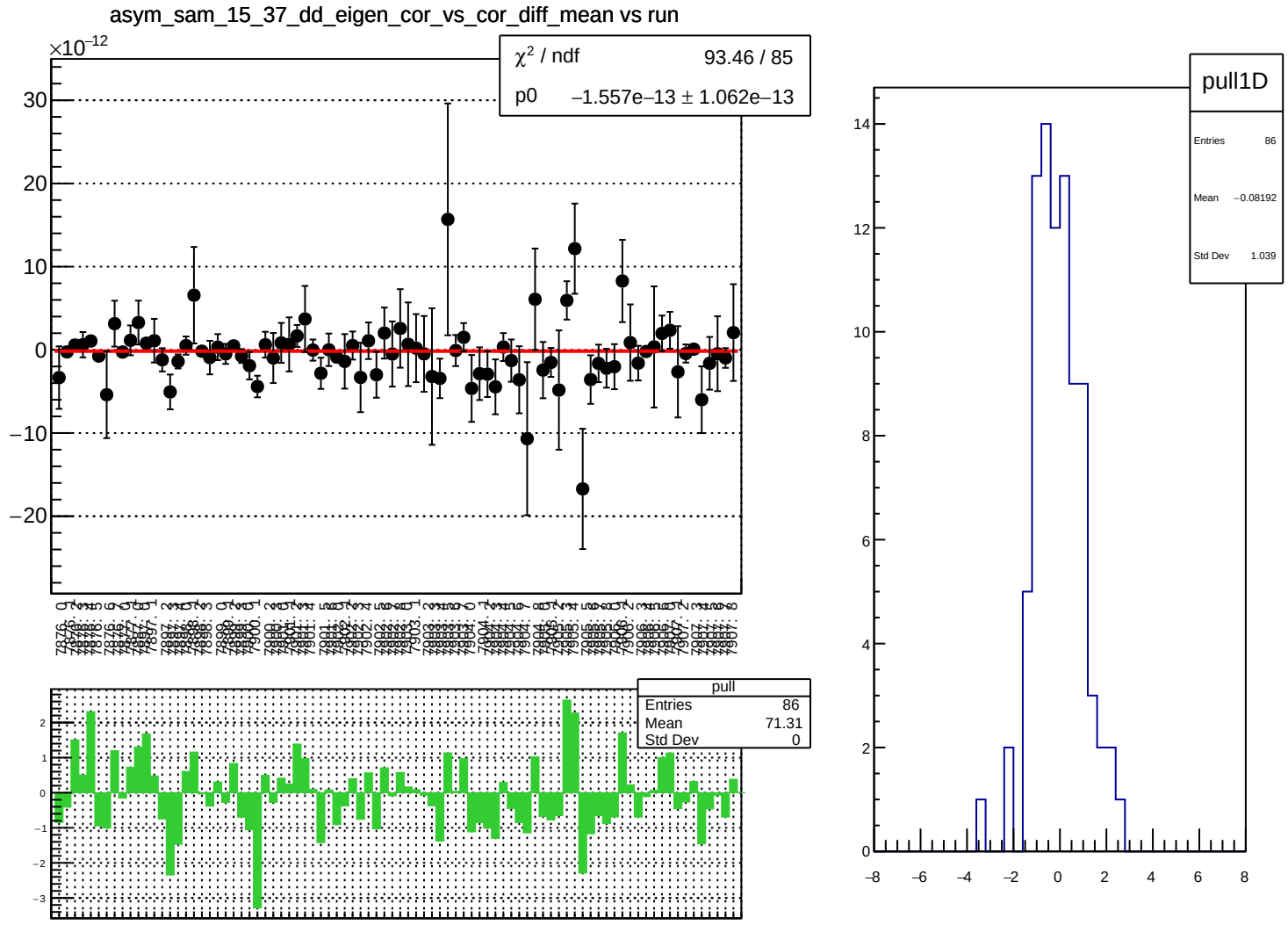

pull1D
Entries 86
Mean −0.02894
Std Dev 0.8836

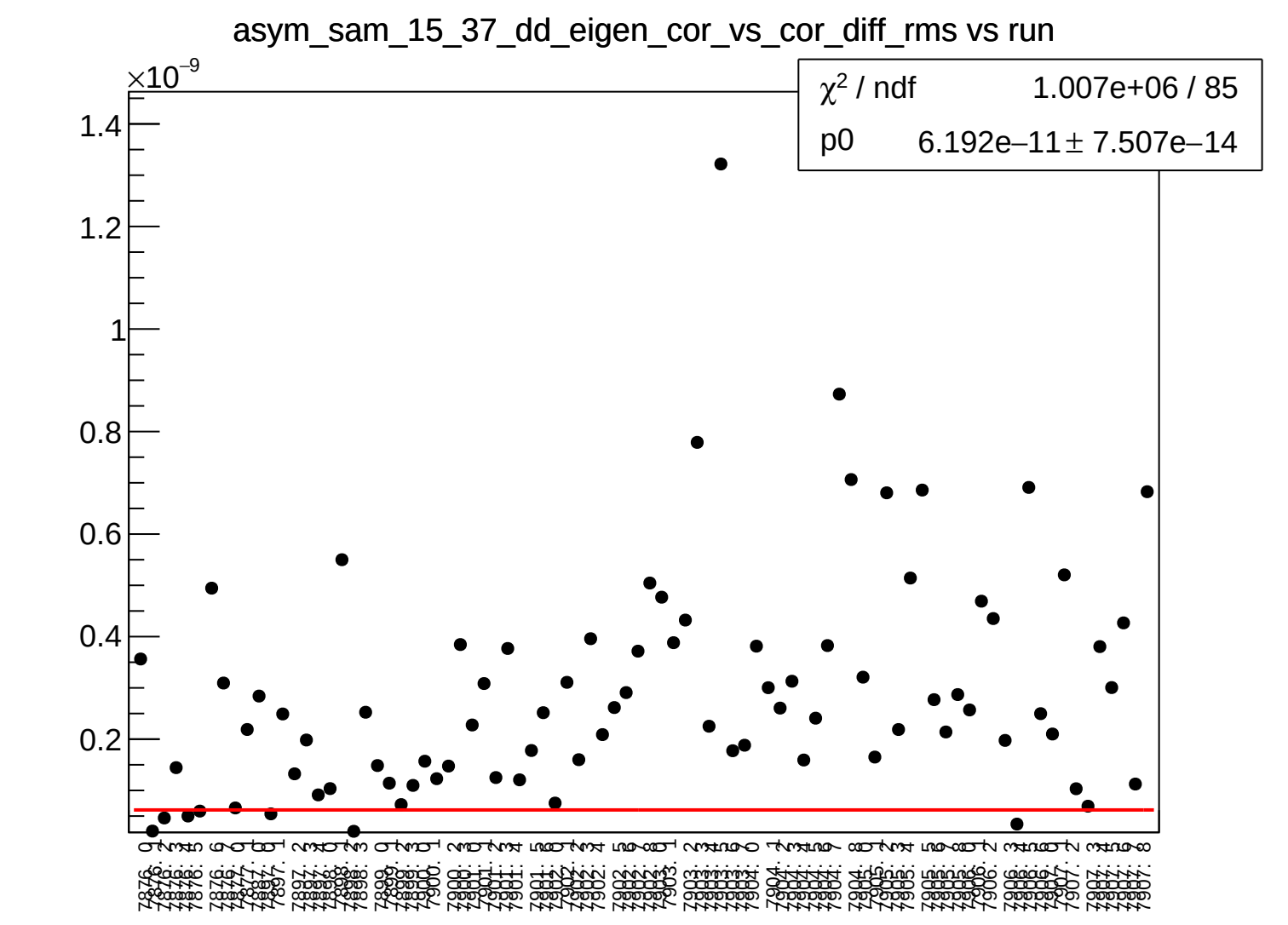

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.476e+04 / 85
p0 40.87 ± 0.03198
90
80
70
60
50
40
30
20

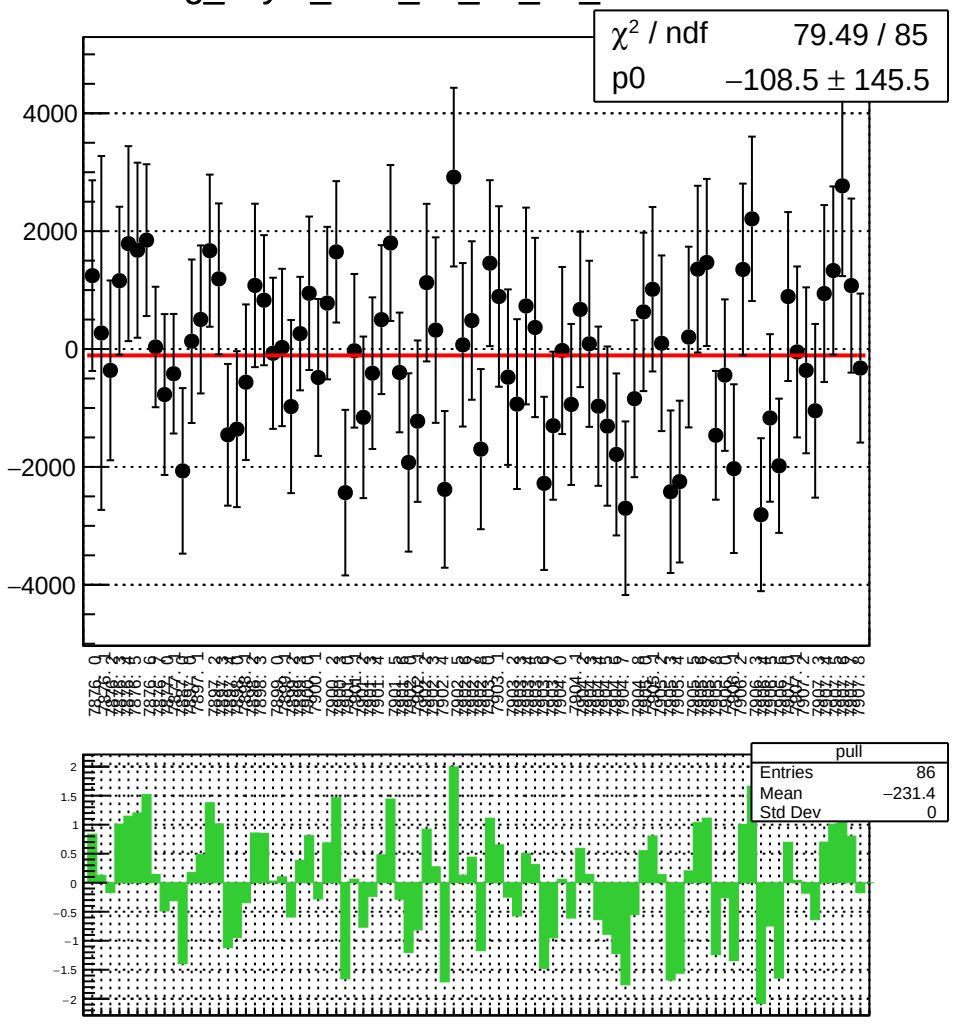

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.22 / 85
p0 −0.01881 ± 0.04522
pull
Entries 86
Mean 117
Std Dev 0

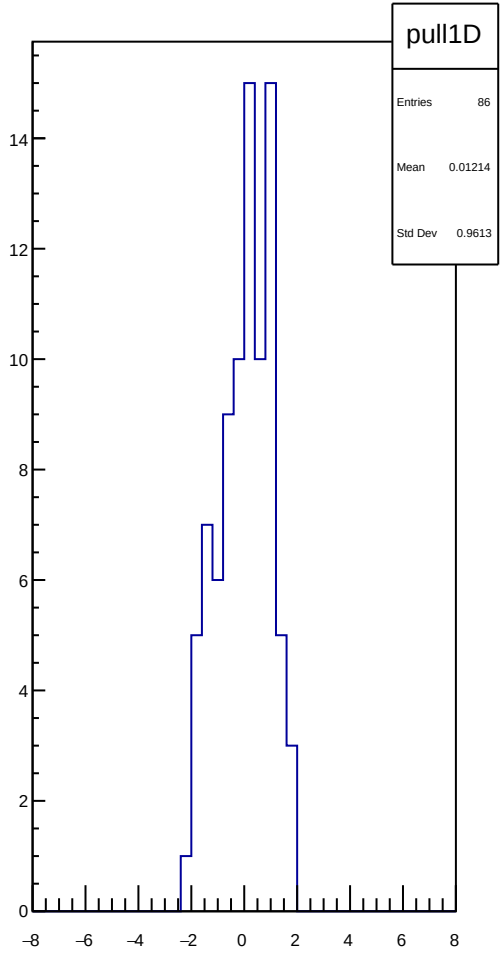

pull1D
Entries 86
Mean −0.02894
Std Dev 0.8836

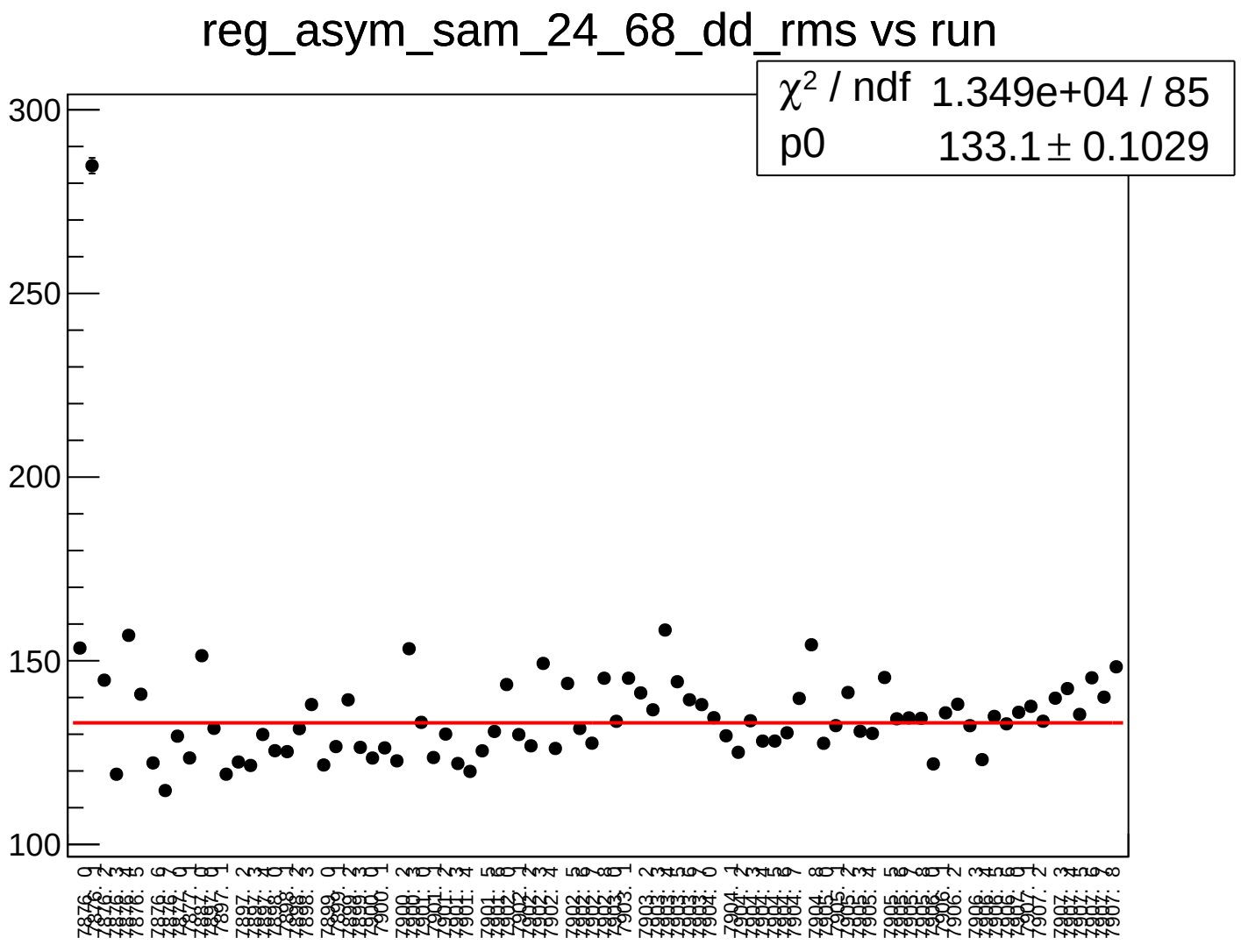

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.476e+04 / 85
p0 40.87 ± 0.03198
90
80
70
60
50
40
30
20

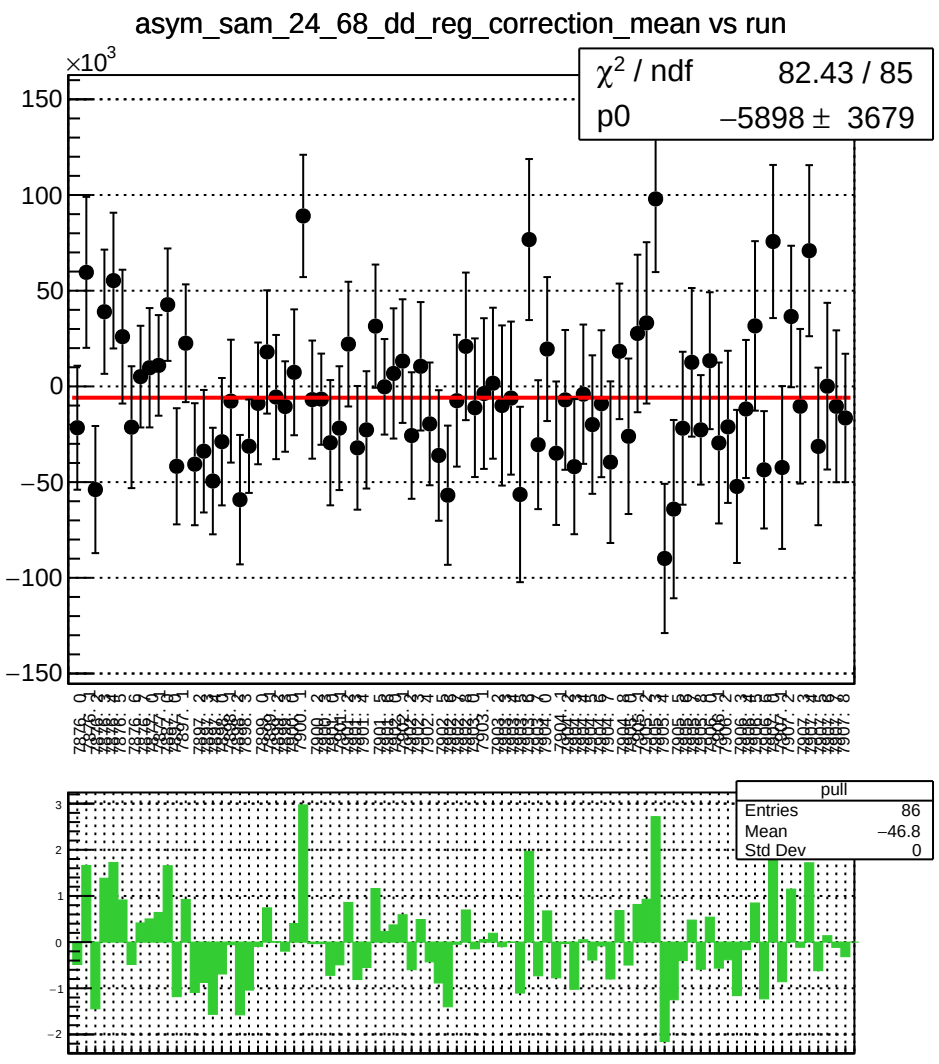

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.46 / 85
p0 −1.557e−13 ± 1.062e−13
pull
Entries 86
Mean 71.31
Std Dev 0
pull1D
Entries 86
Mean −0.08192
Std Dev 1.039

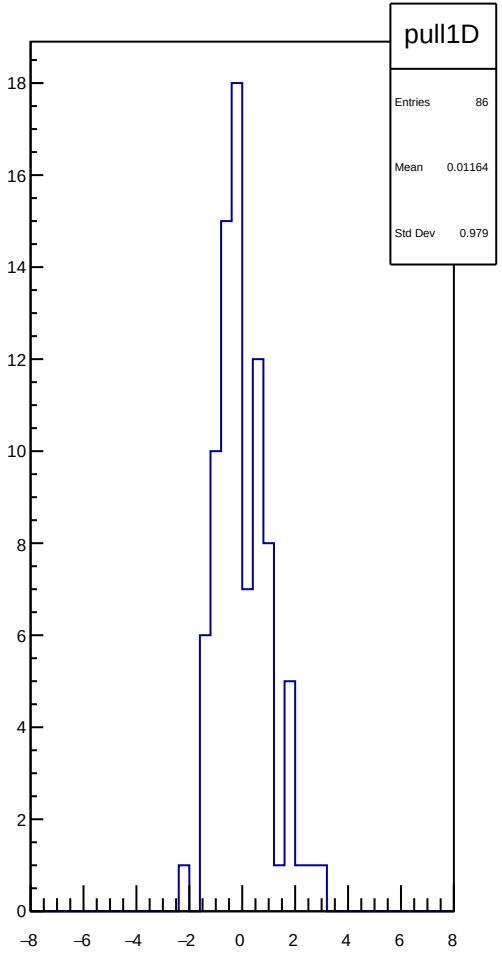

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.007e+06 / 85
p0 6.192e−11 ± 7.507e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

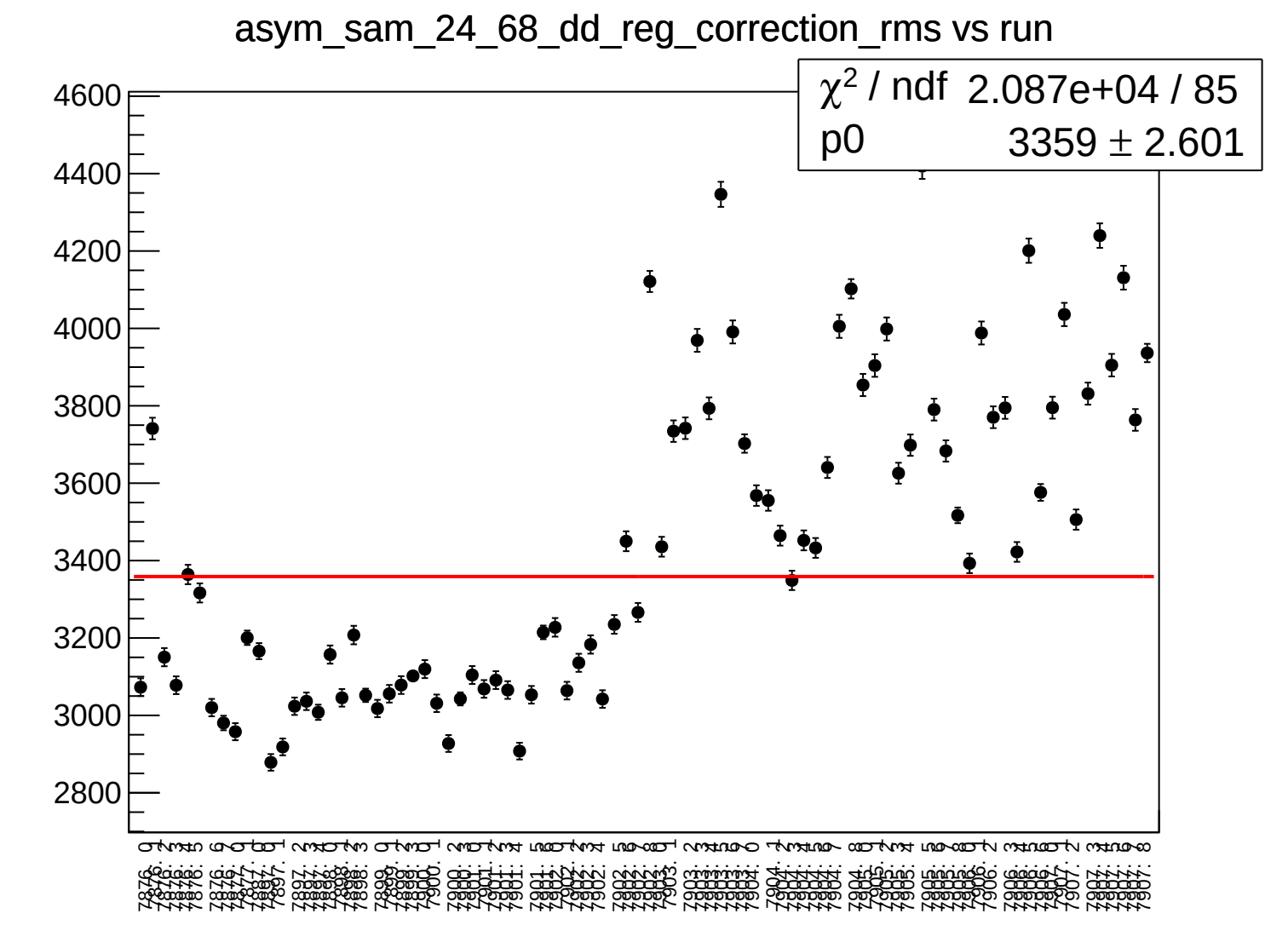

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 79.49 / 85
p0 −108.5 ± 145.5
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −231.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

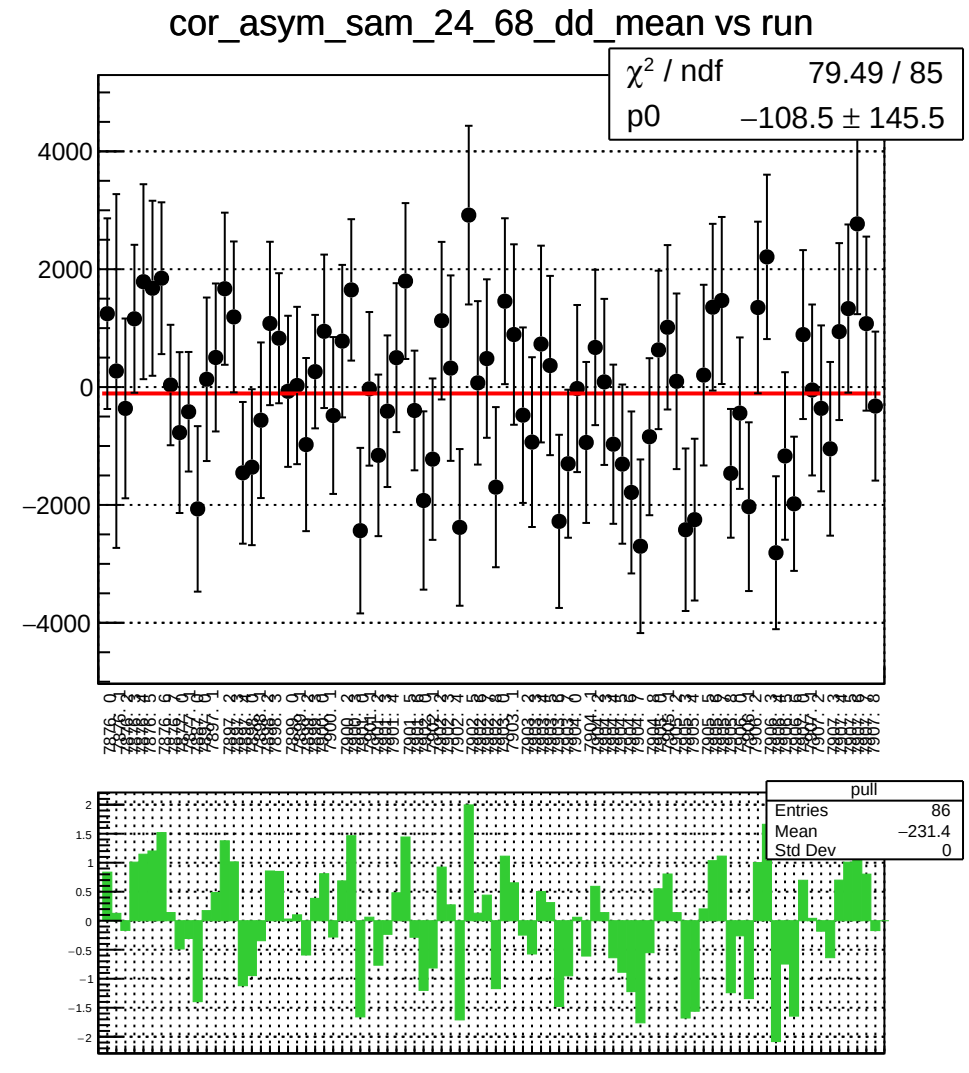

pull1D
Entries 86
Mean 0.01214
Std Dev 0.9613
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

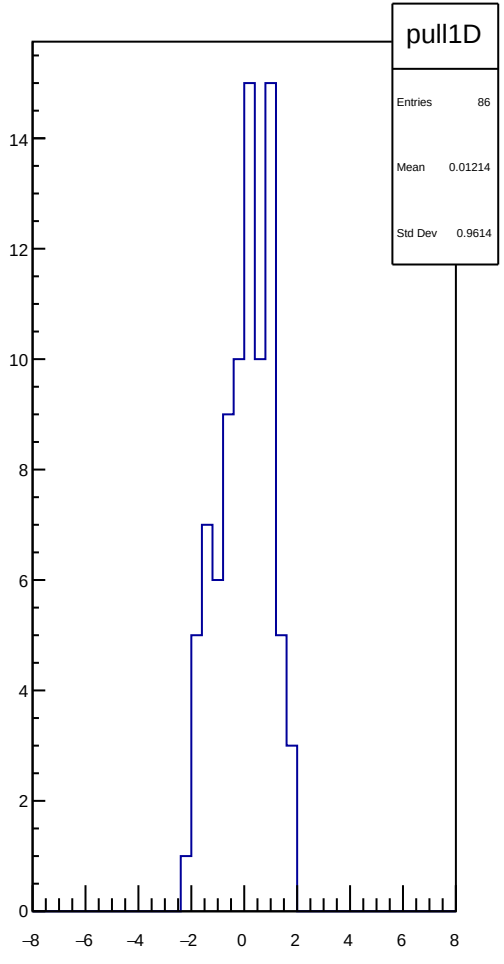

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.349e+04 / 85
p0 133.1 ± 0.1029
300
250
200
150
100

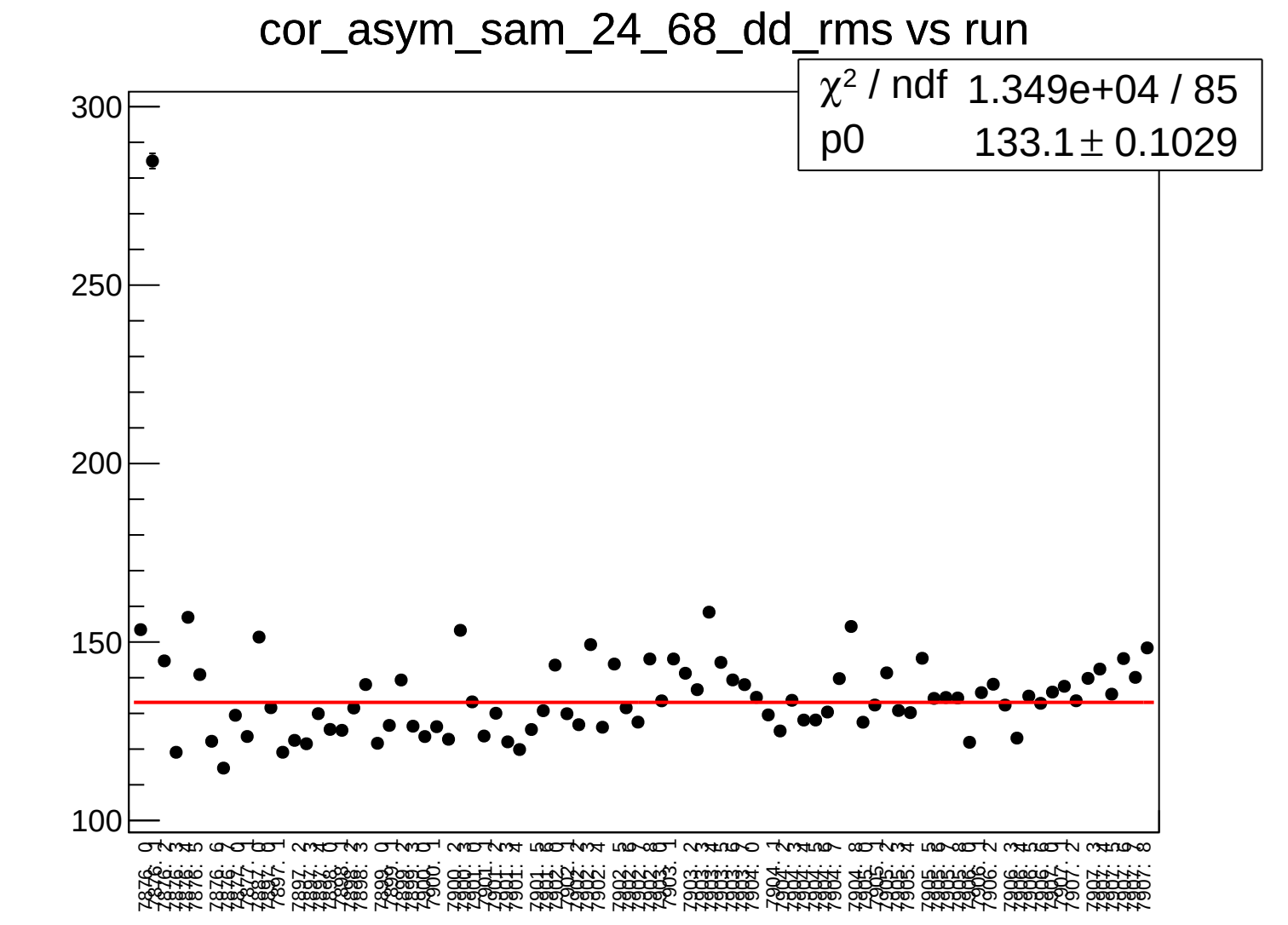

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 −5898 ± 3679
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −46.8
Std Dev 0
3
2
1
0
−1
−2

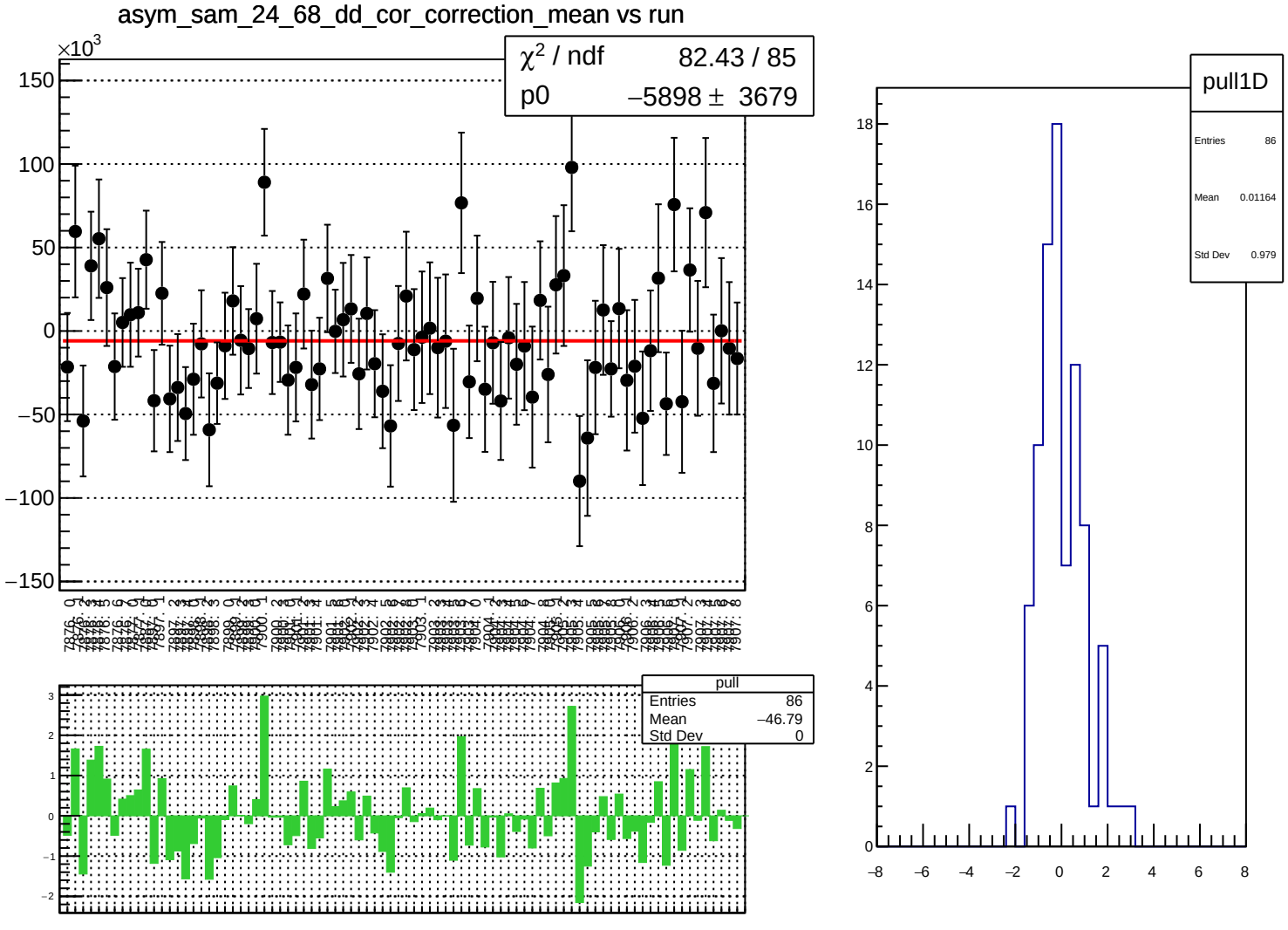

pull1D
Entries 86
Mean 0.01164
Std Dev 0.979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

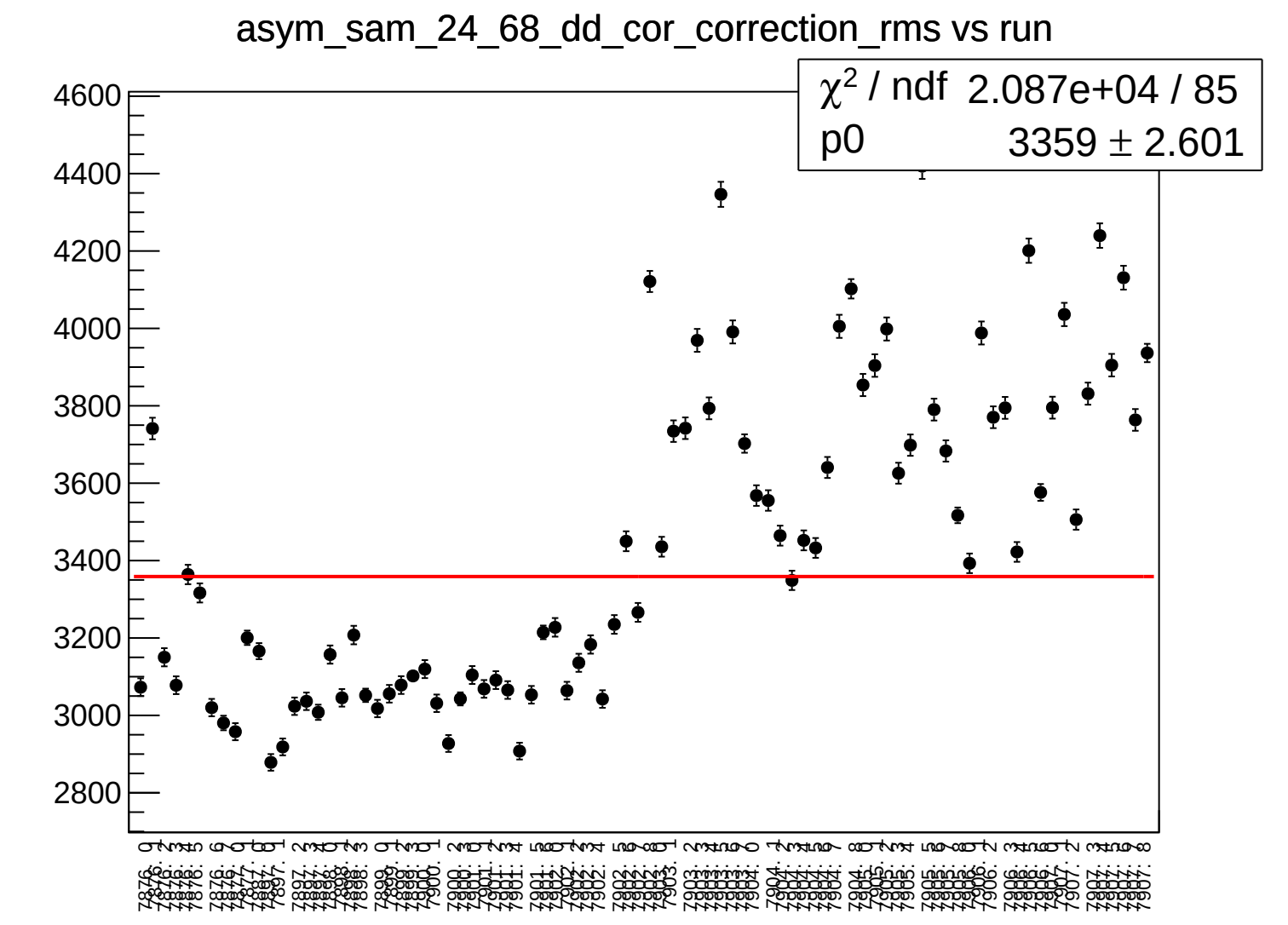

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2.087e+04 / 85
p0 3359 ± 2.601
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

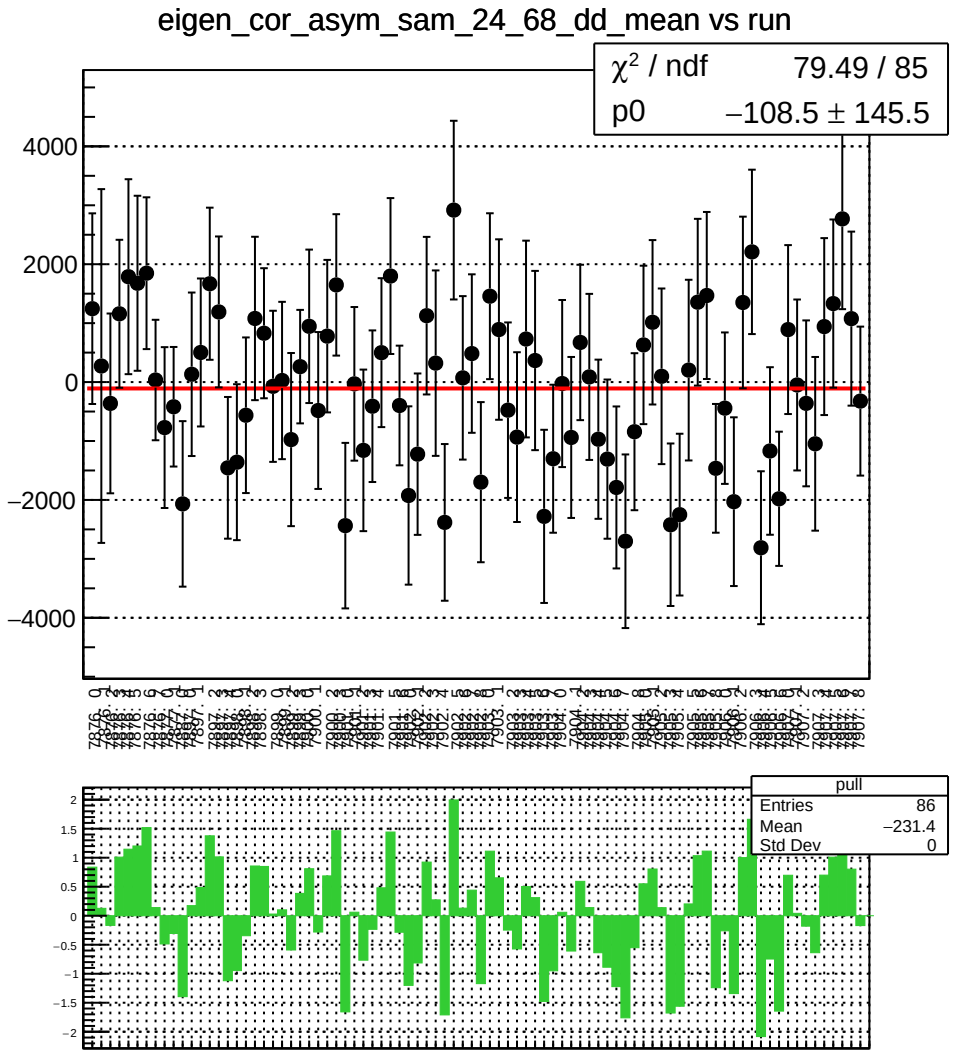

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 79.49 / 85
p0 −108.5 ± 145.5
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −231.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

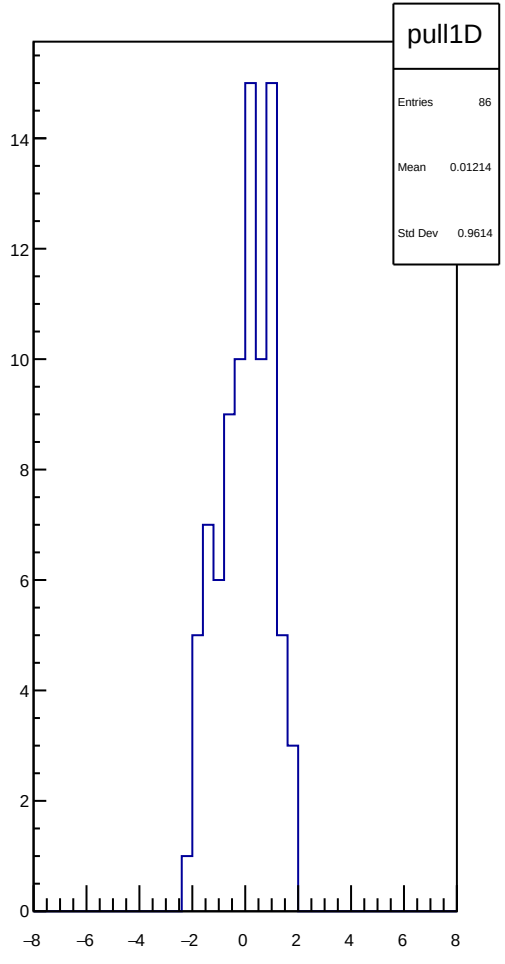

pull1D
Entries 86
Mean 0.01214
Std Dev 0.9614
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

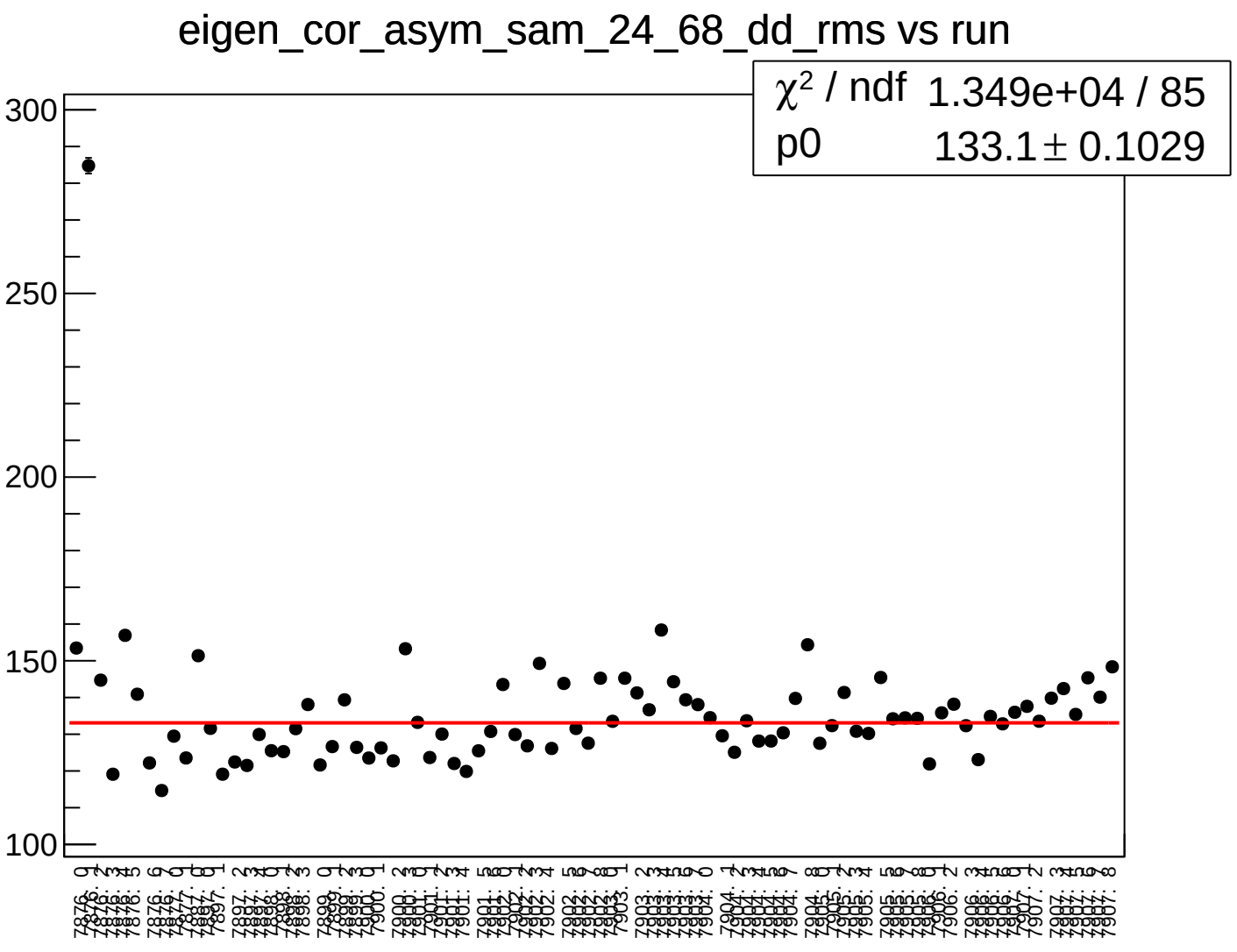

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.349e+04 / 85
p0 133.1 ± 0.1029
300
250
200
150
100

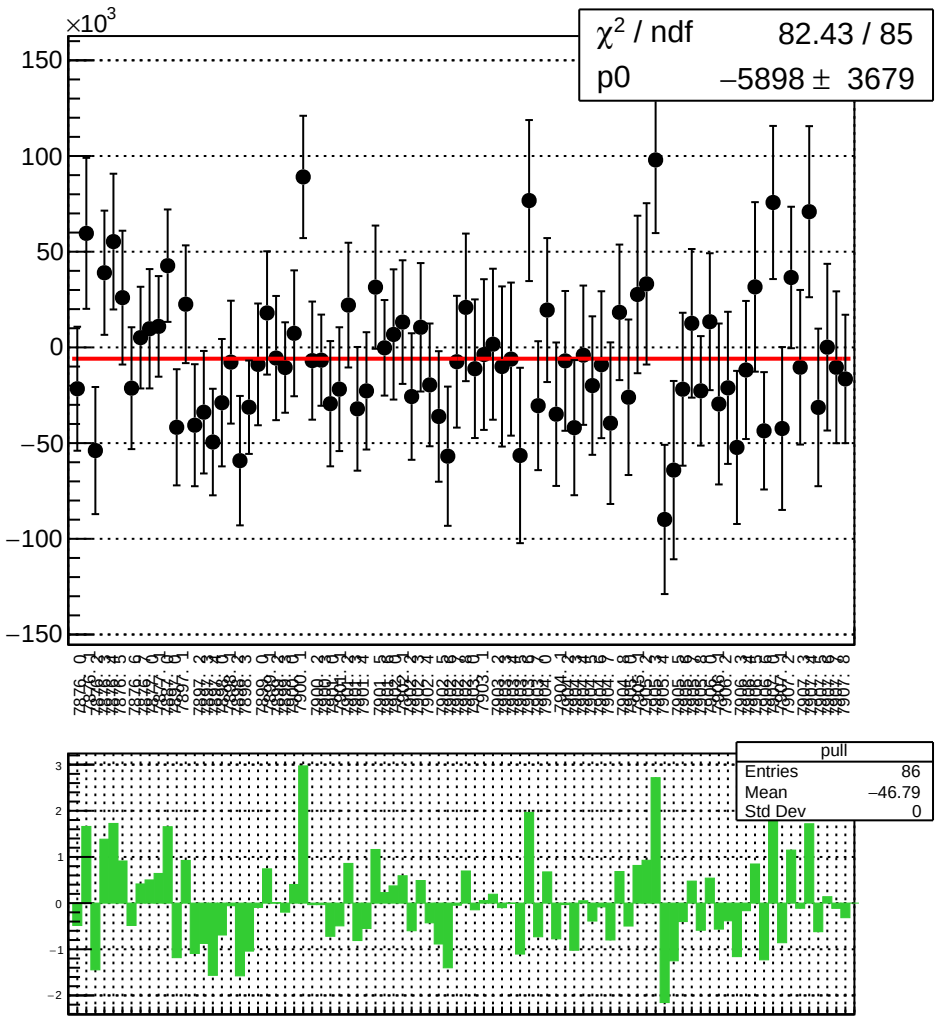

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 −5898 ± 3679
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −46.79
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01164
Std Dev 0.979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

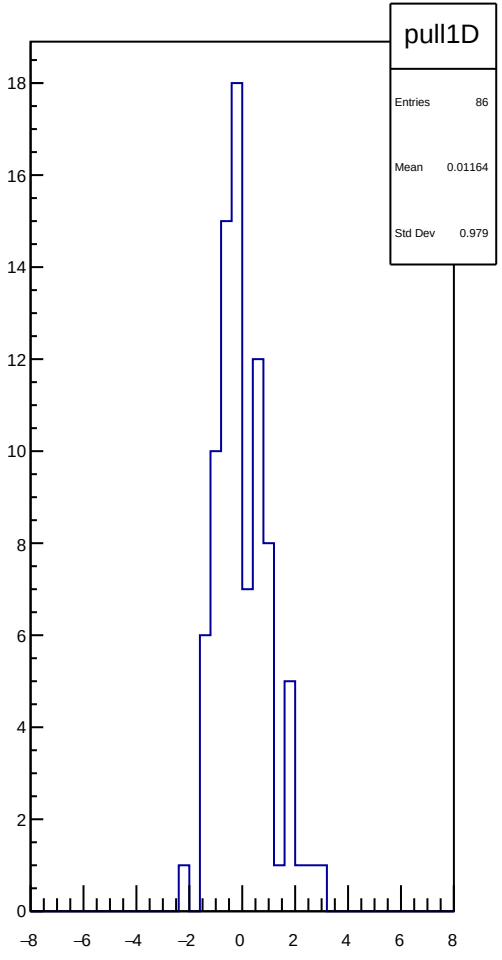

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2.087e+04 / 85
p0 3359 ± 2.601
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

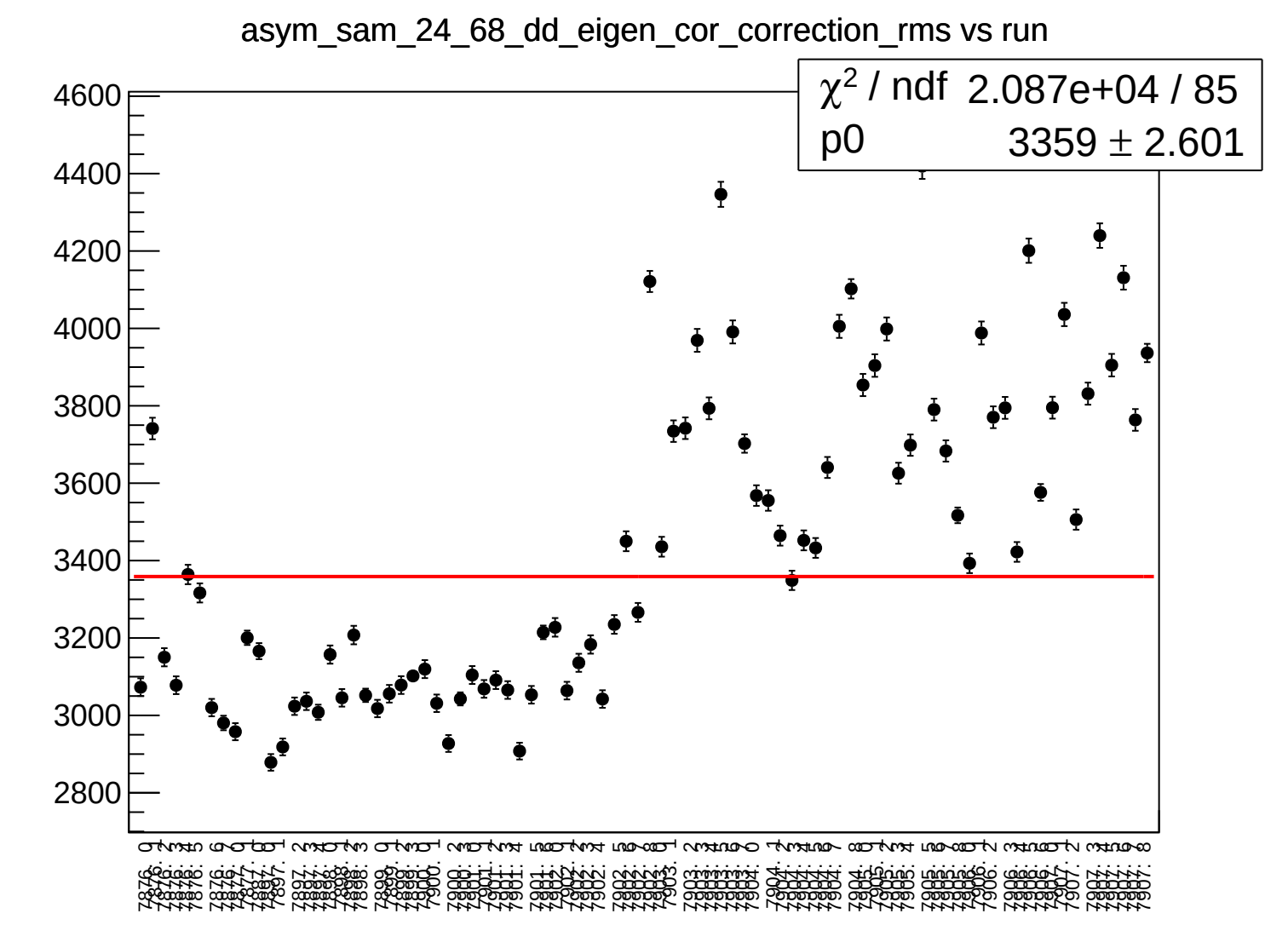

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 79.49 / 85
p0 −108.5 ± 145.5
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −231.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

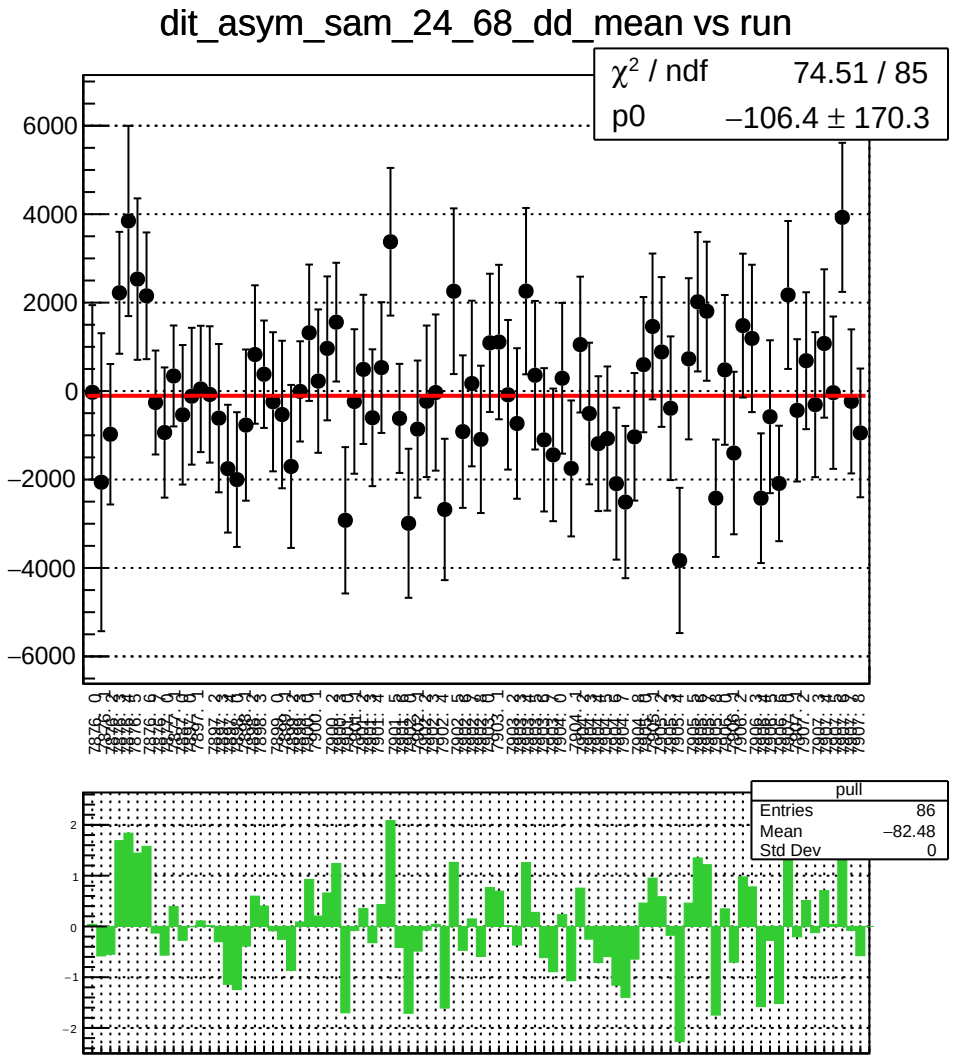

pull1D
Entries 86
Mean 0.01214
Std Dev 0.9614
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

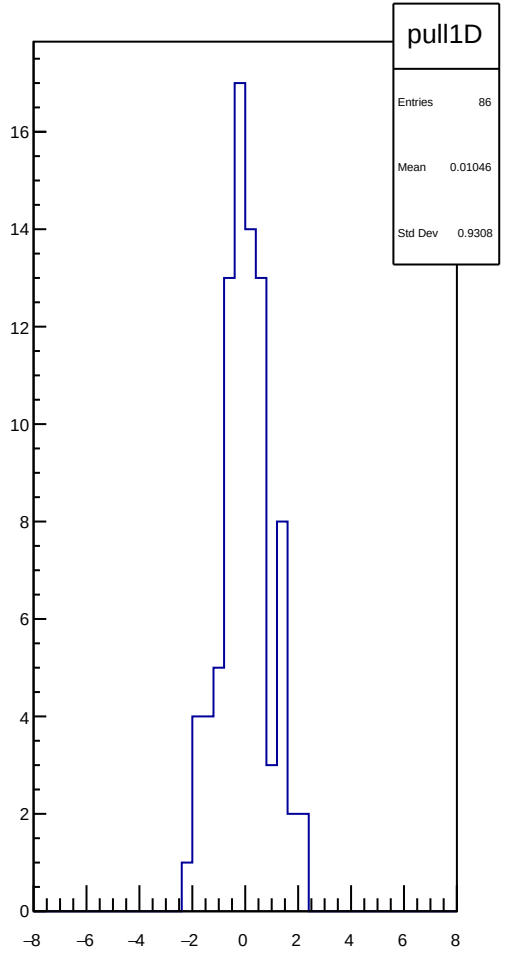

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.349e+04 / 85
p0 133.1 ± 0.1029
300
250
200
150
100

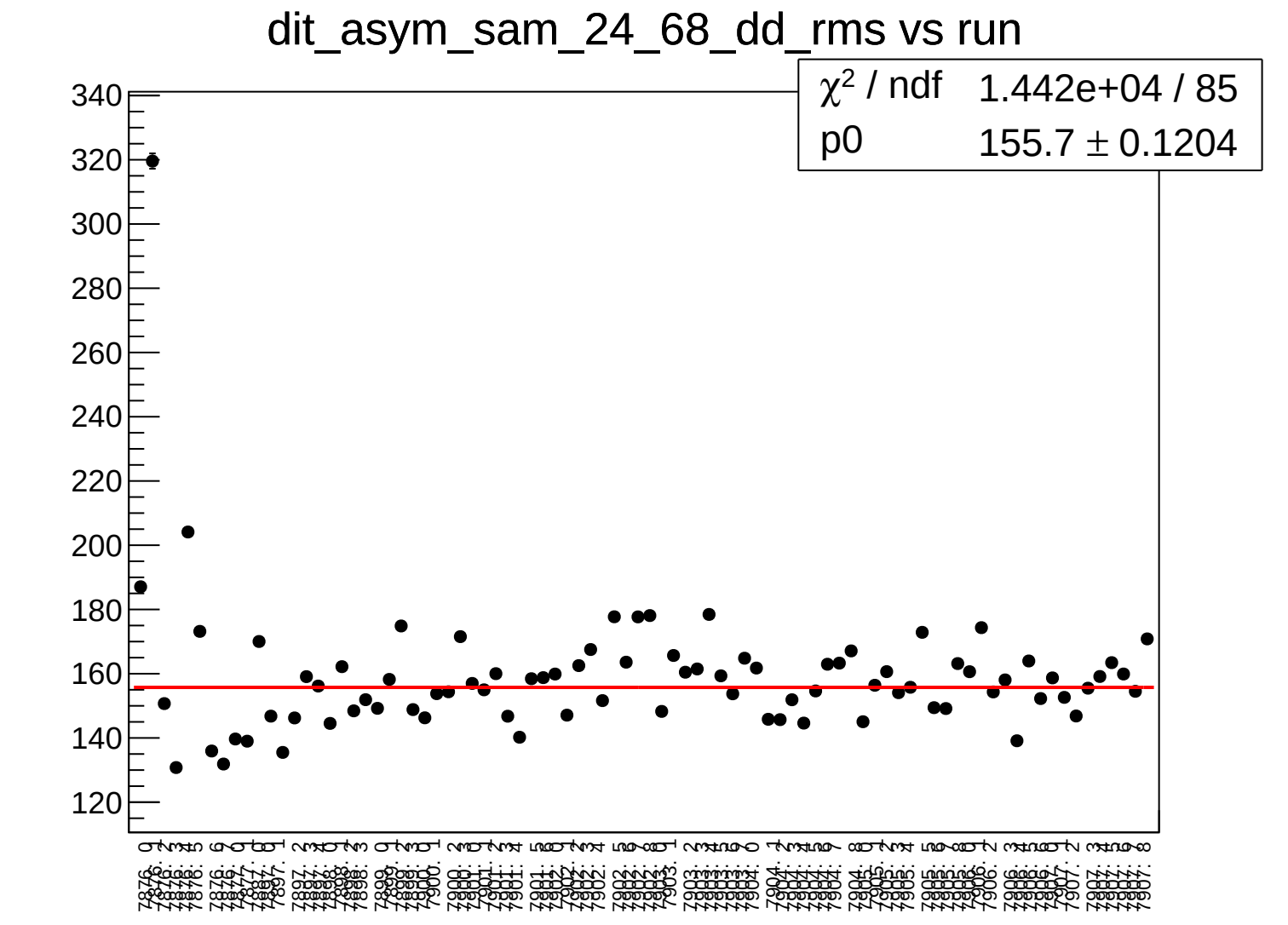

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 −5898 ± 3679
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −46.79
Std Dev 0
3
2
1
0
−1
−2

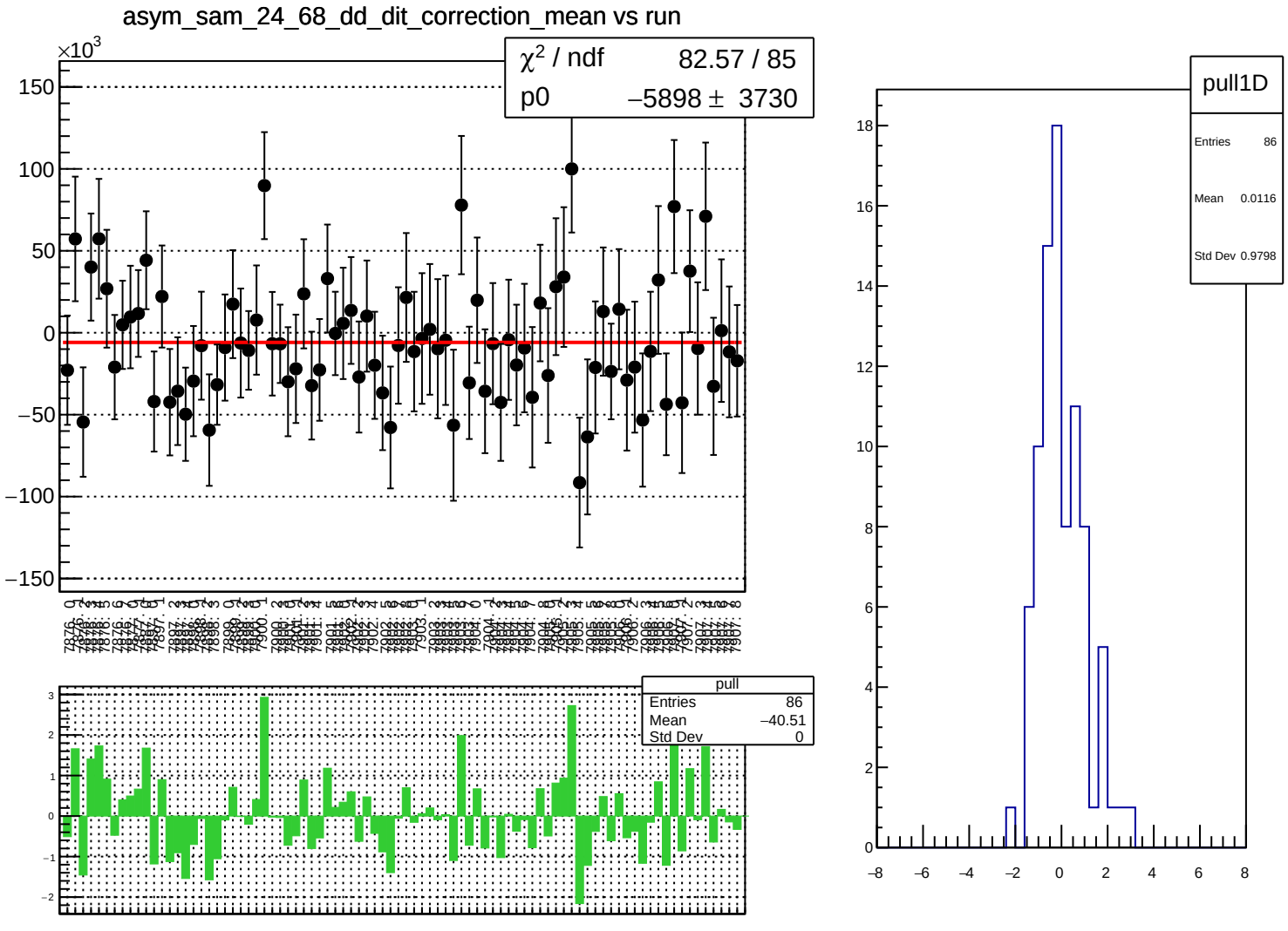

pull1D
Entries 86
Mean 0.01164
Std Dev 0.979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

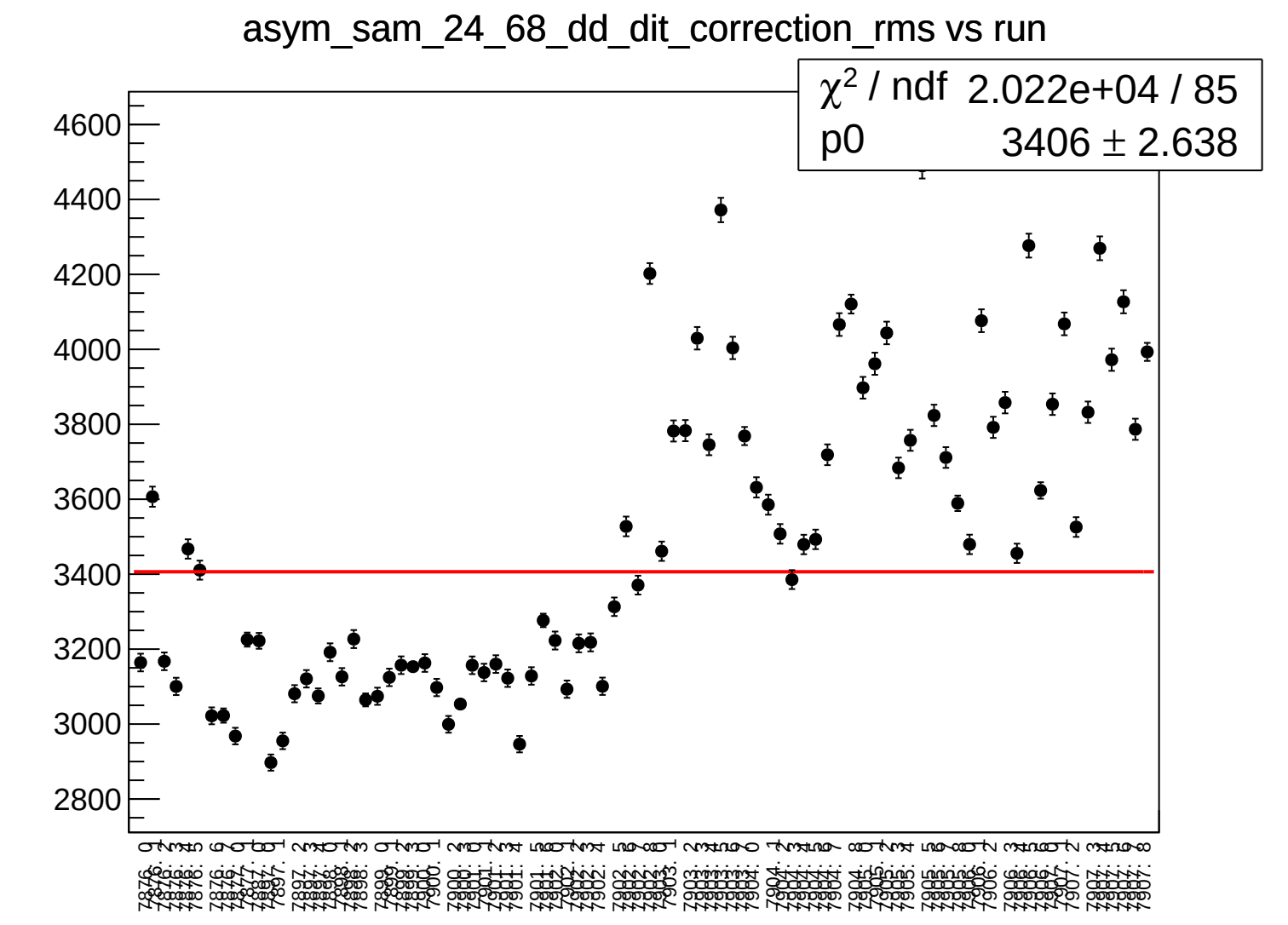

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.087e+04 / 85
p0 3359 ± 2.601
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

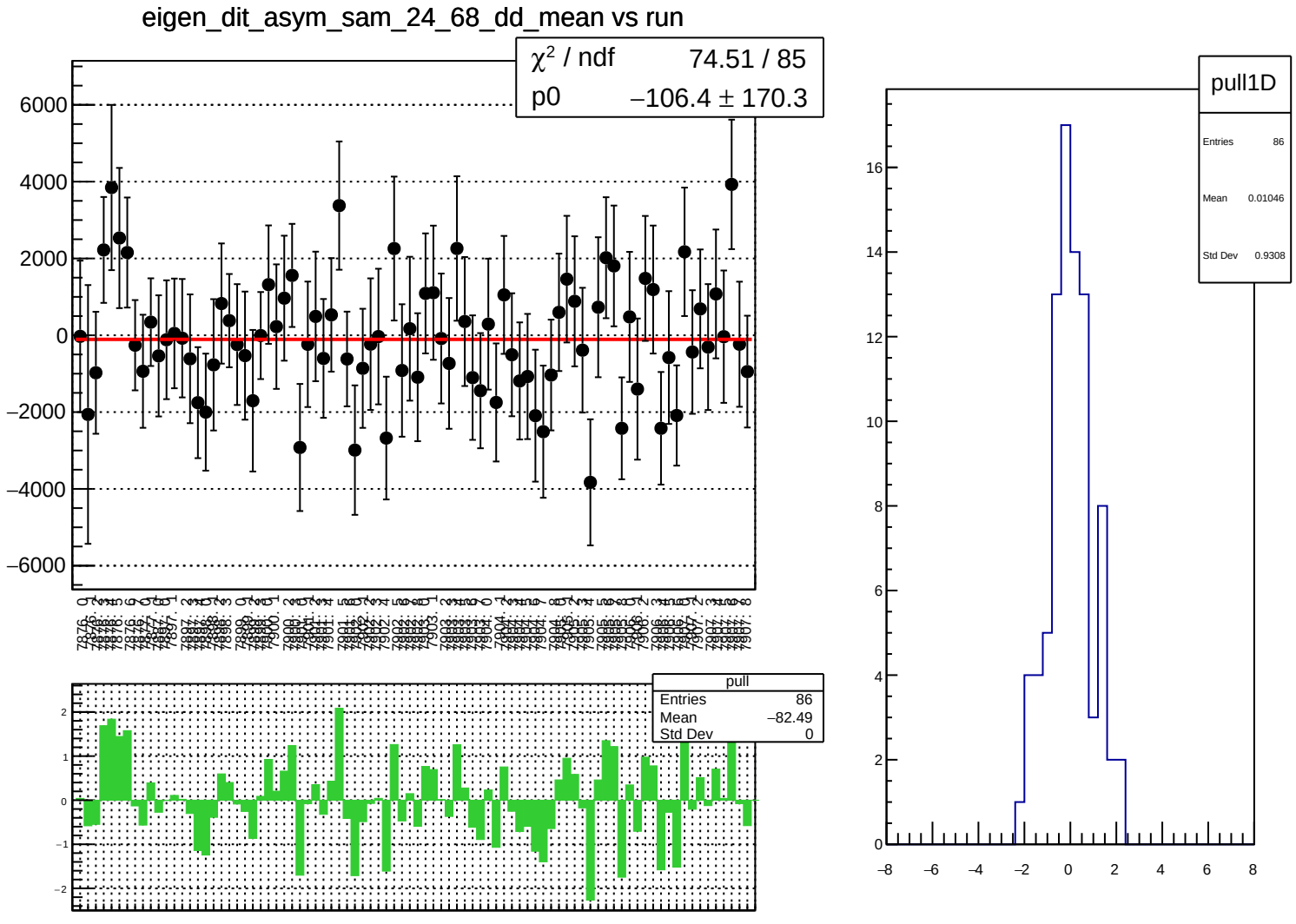

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 74.51 / 85
p0 −106.4 ± 170.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −82.48
Std Dev 0
2
1
0
−1
−2

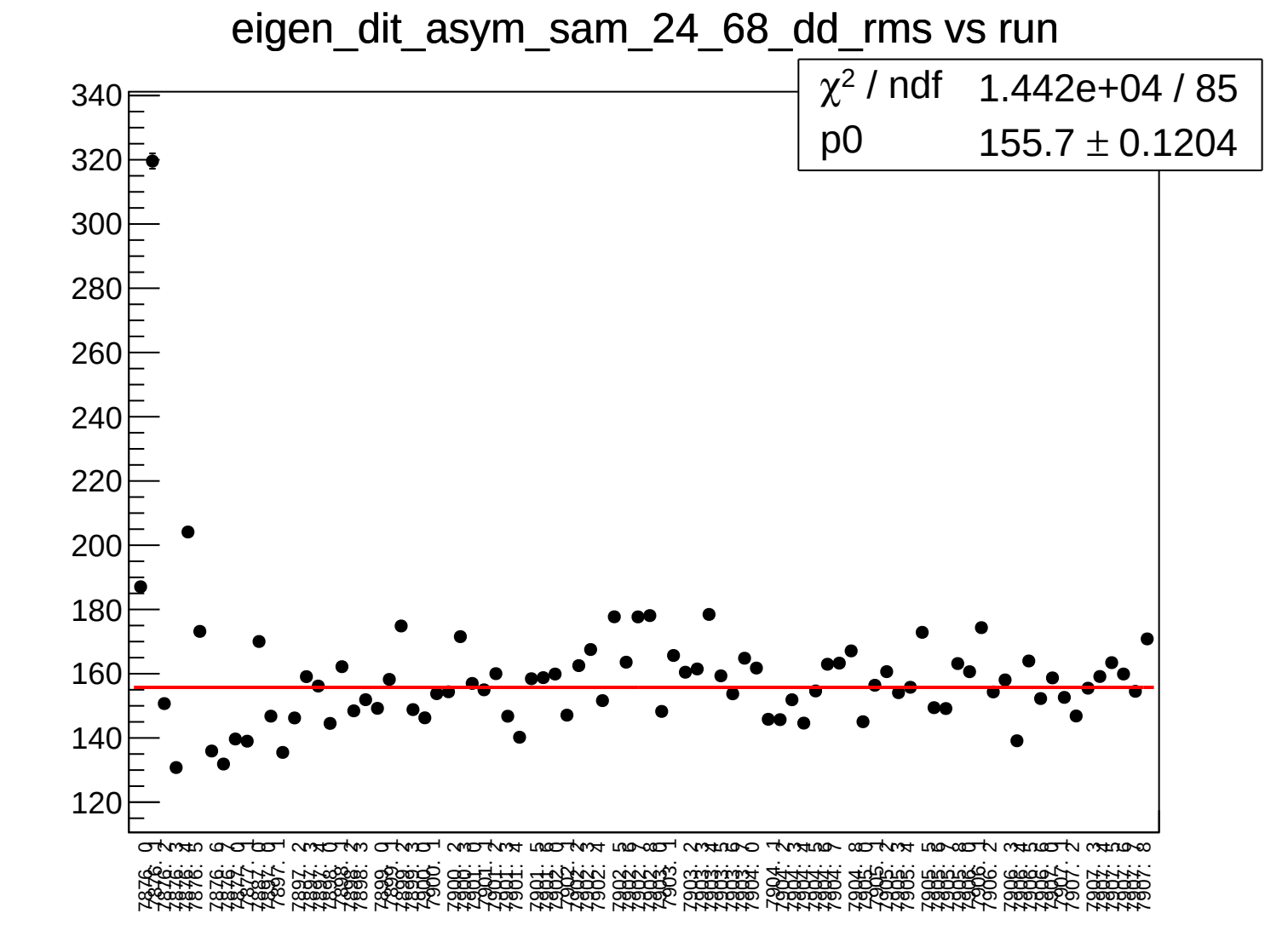

pull1D
Entries 86
Mean 0.01046
Std Dev 0.9308
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

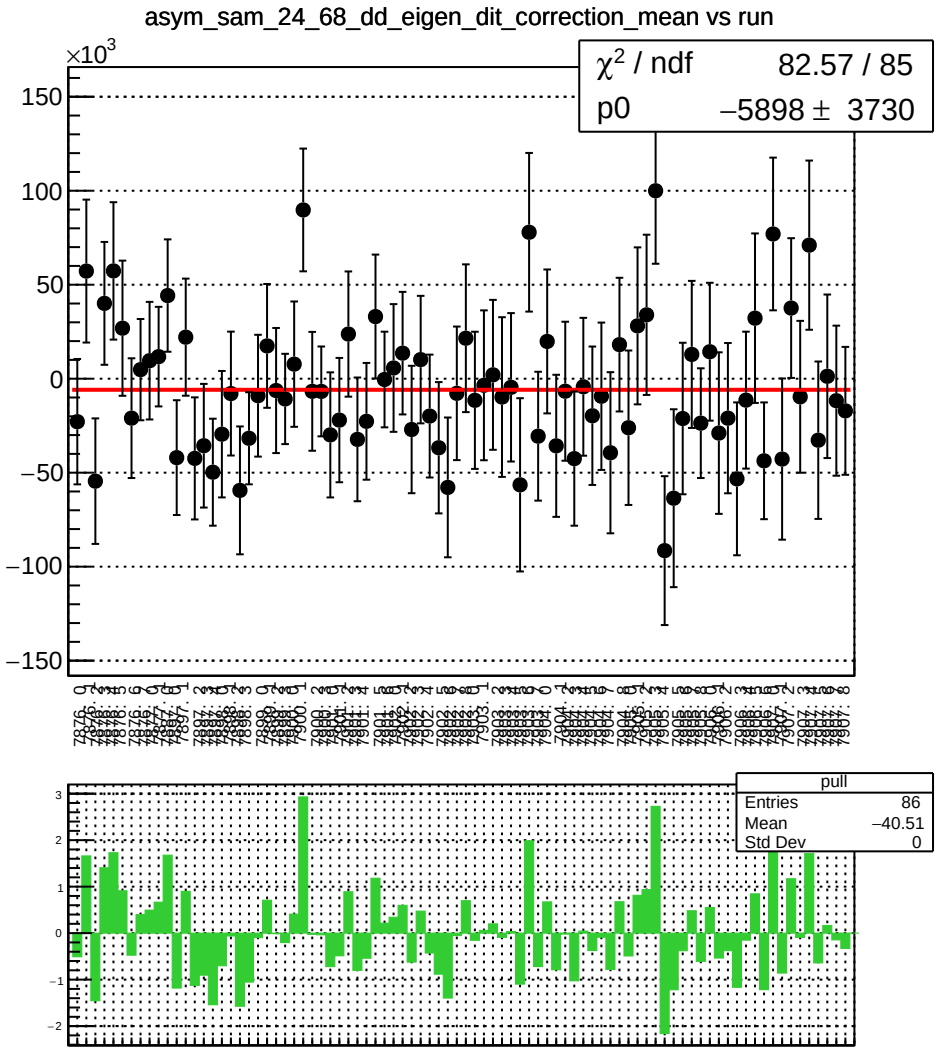

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.442e+04 / 85
p0 155.7 ± 0.1204
340
320
300
280
260
240
220
200
180
160
140
120

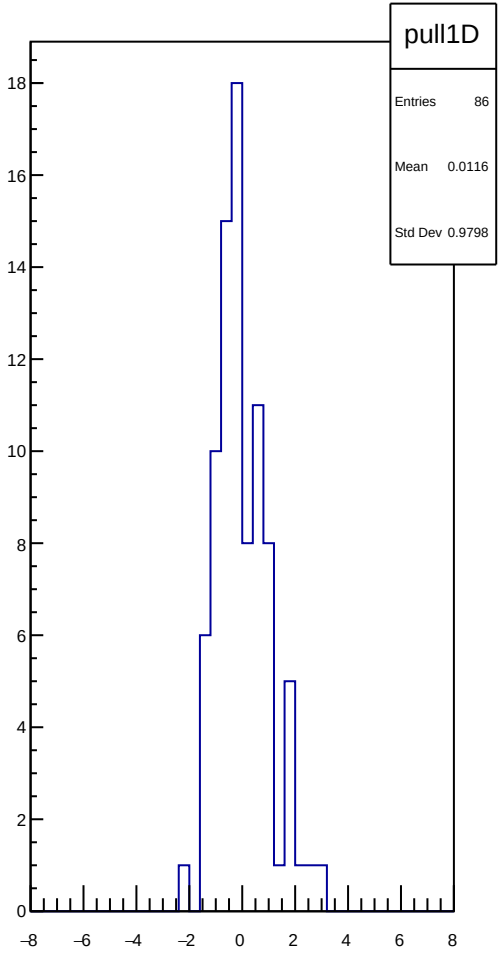

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.57 / 85
p0 −5898 ± 3730
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −40.51
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.0116
Std Dev 0.9798
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

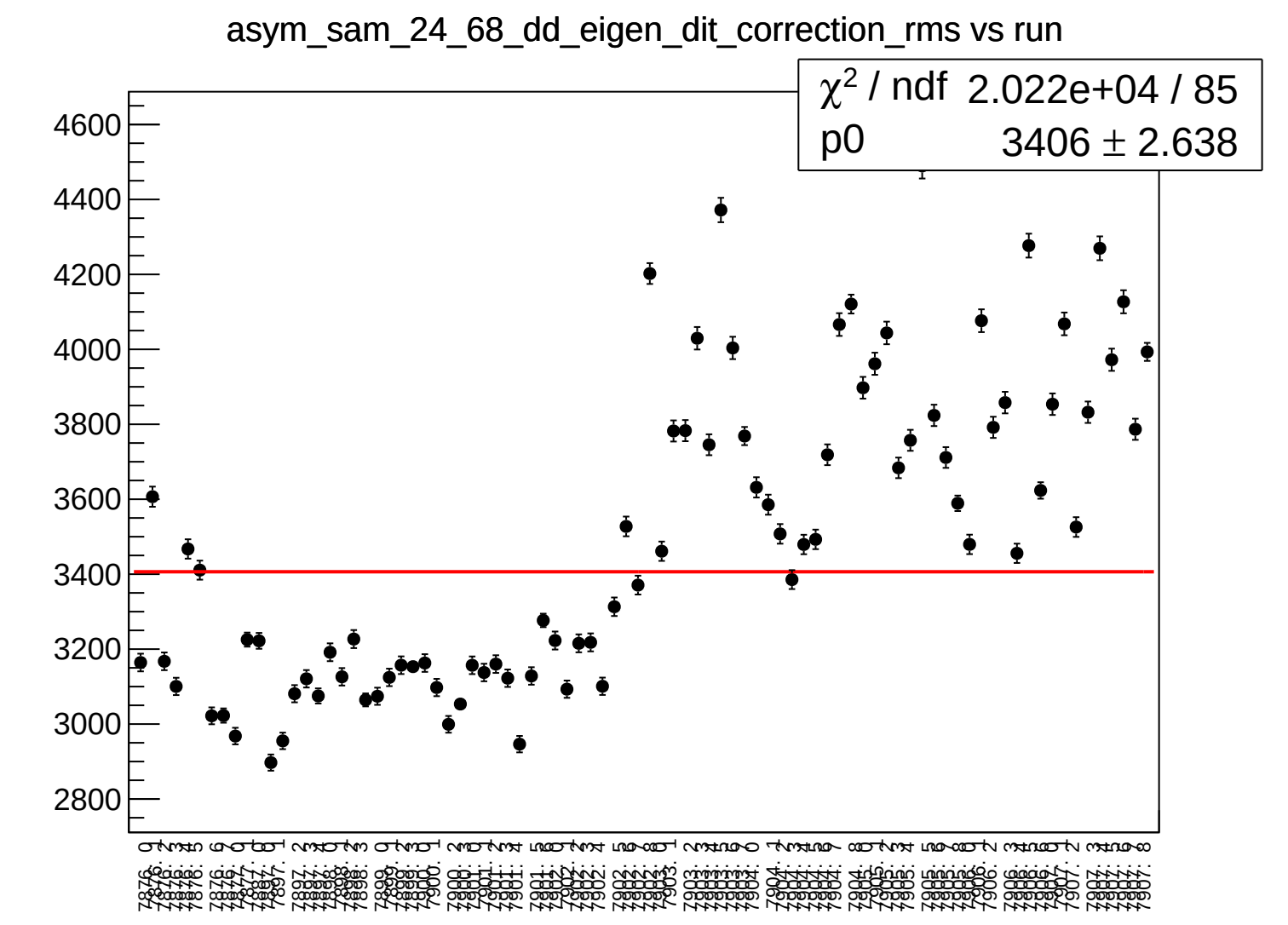

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 2.022e+04 / 85
p0 3406 ± 2.638
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

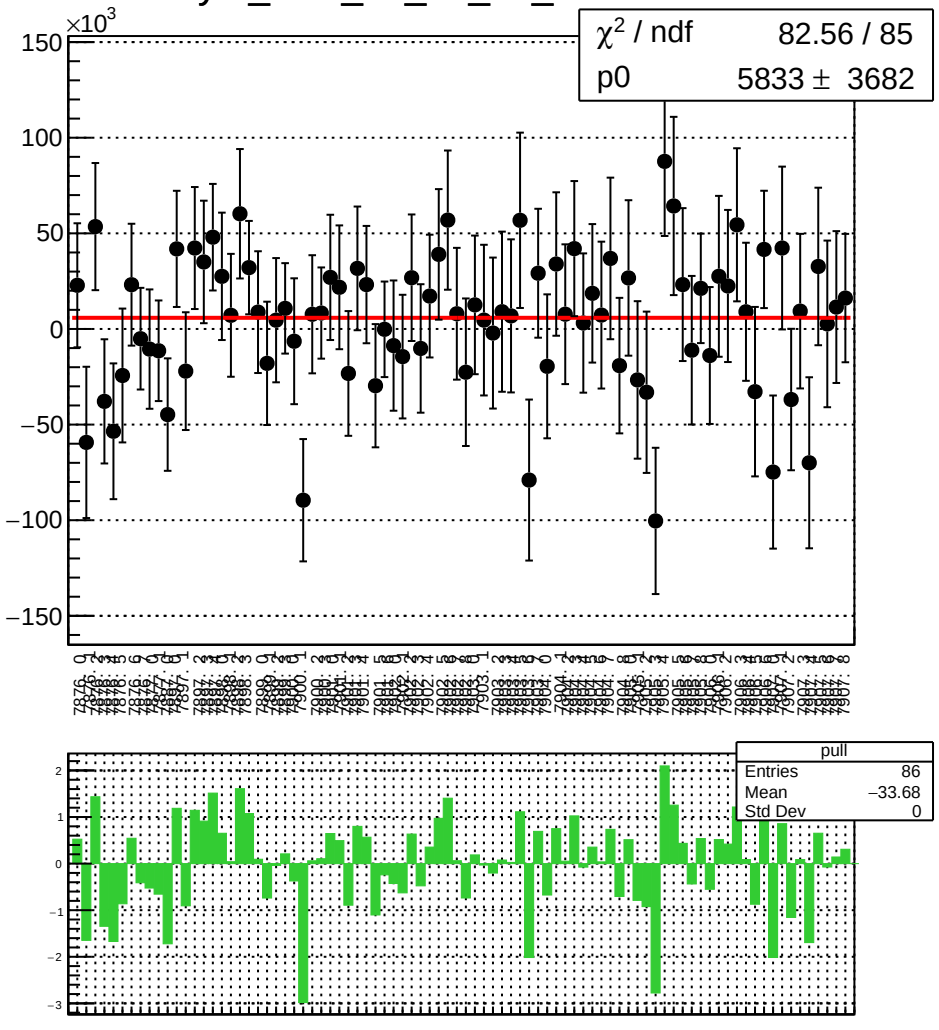

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 74.51 / 85
p0 −106.4 ± 170.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −82.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01046
Std Dev 0.9308
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

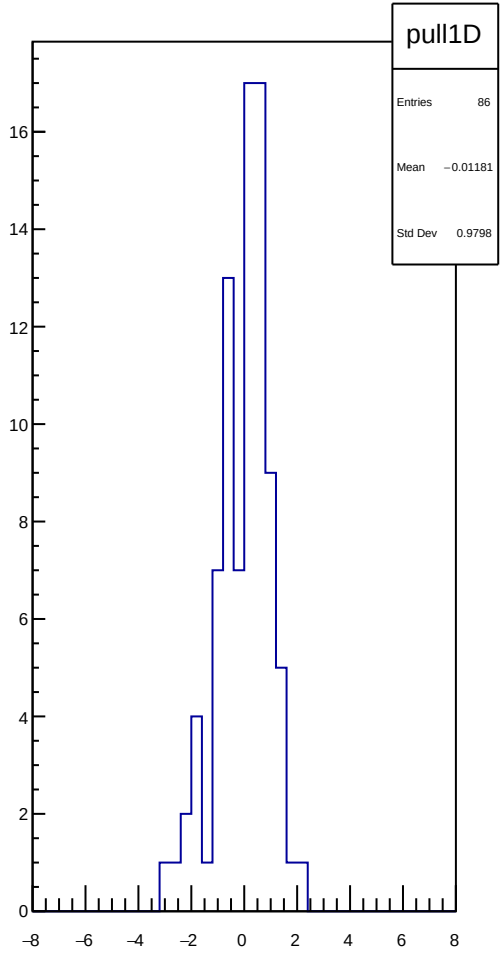

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.442e+04 / 85
p0 155.7 ± 0.1204
340
320
300
280
260
240
220
200
180
160
140
120

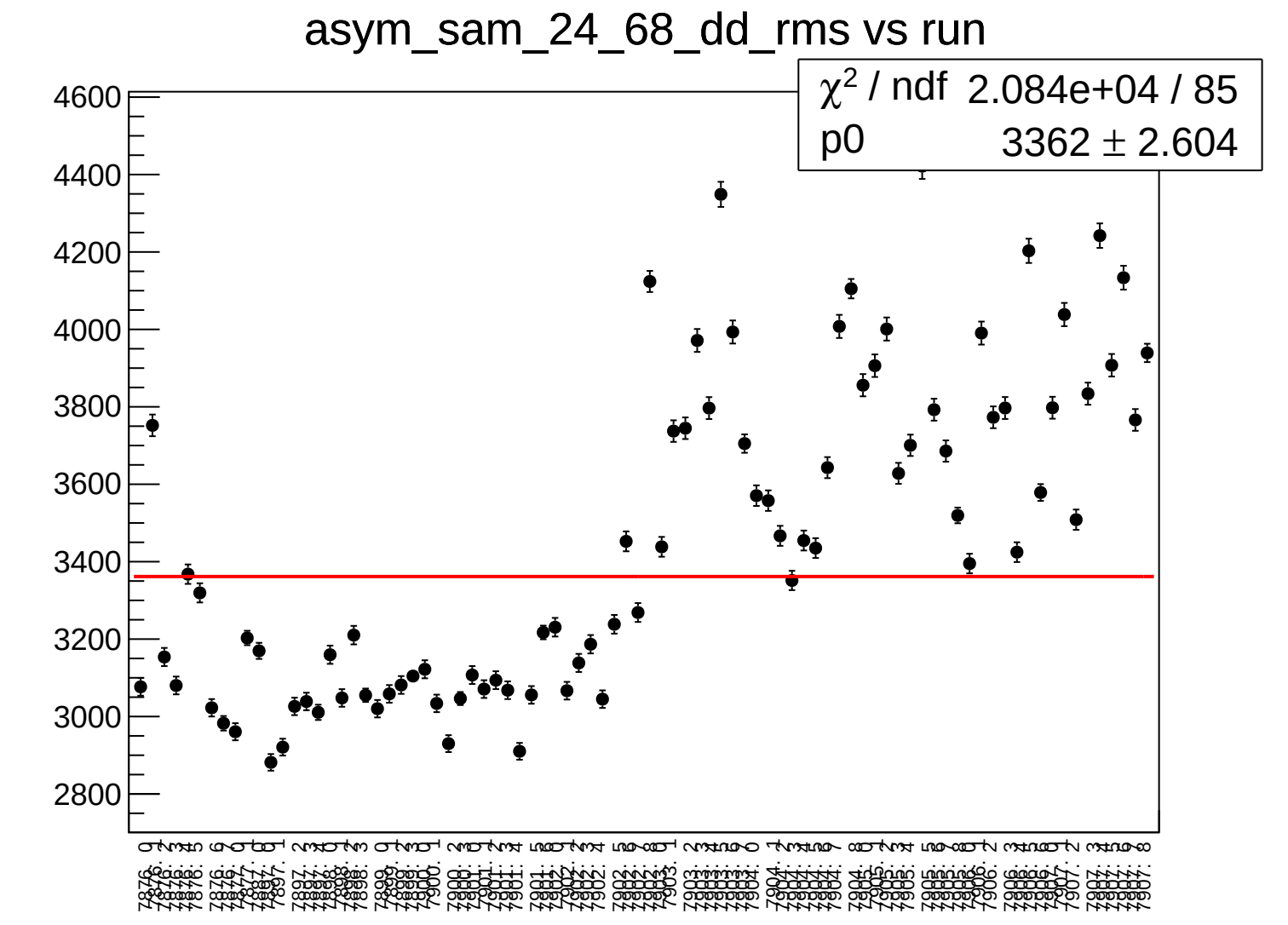

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.57 / 85
p0 −5898 ± 3730
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −40.51
Std Dev 0
3
2
1
0
−1
−2

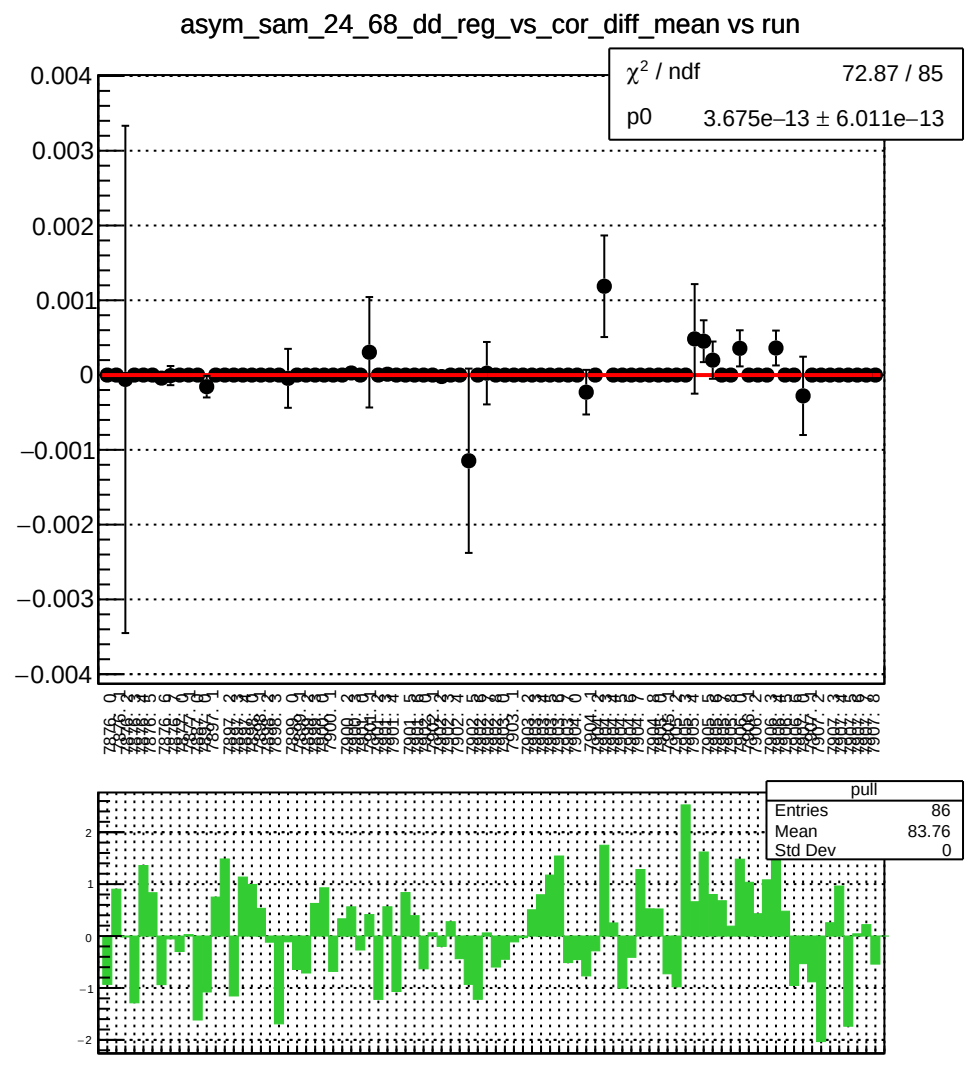

pull1D
Entries 86
Mean 0.0116
Std Dev 0.9798
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

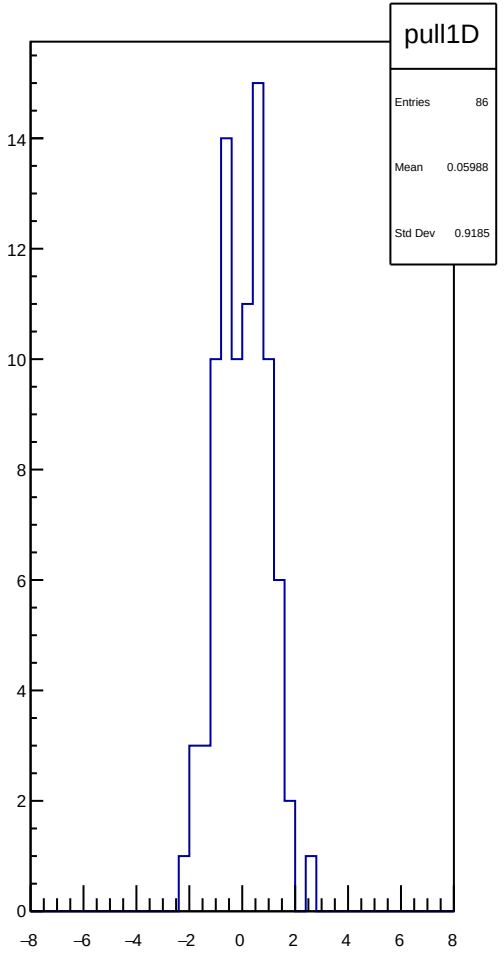

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.022e+04 / 85
p0 3406 ± 2.638
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

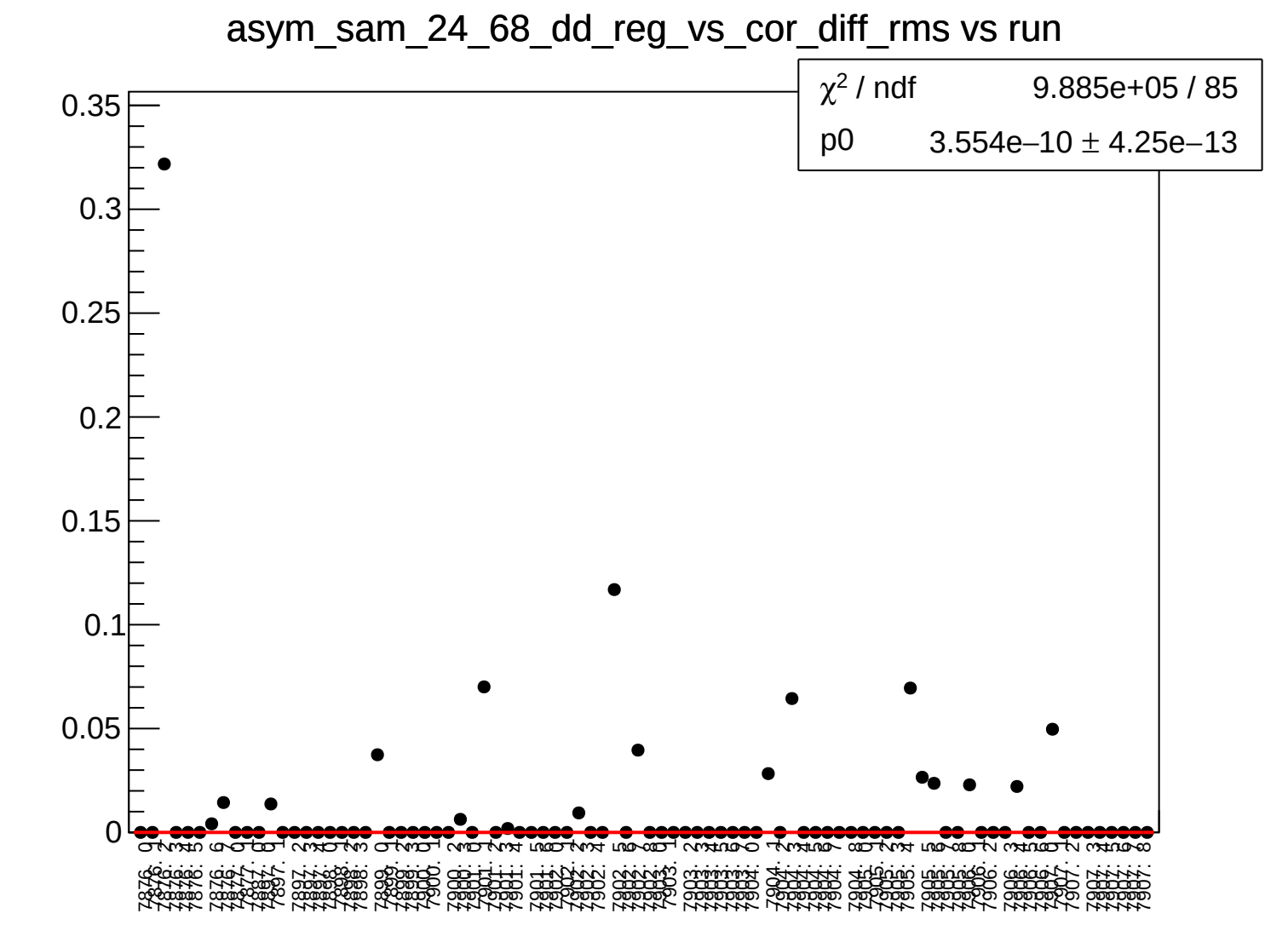

asym_sam_24_68_dd_mean vs run
χ^2 / ndf 82.56 / 85
p0 5833 ± 3682
×10^3
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −33.68
Std Dev 0
2
1
0
−1
−2
−3

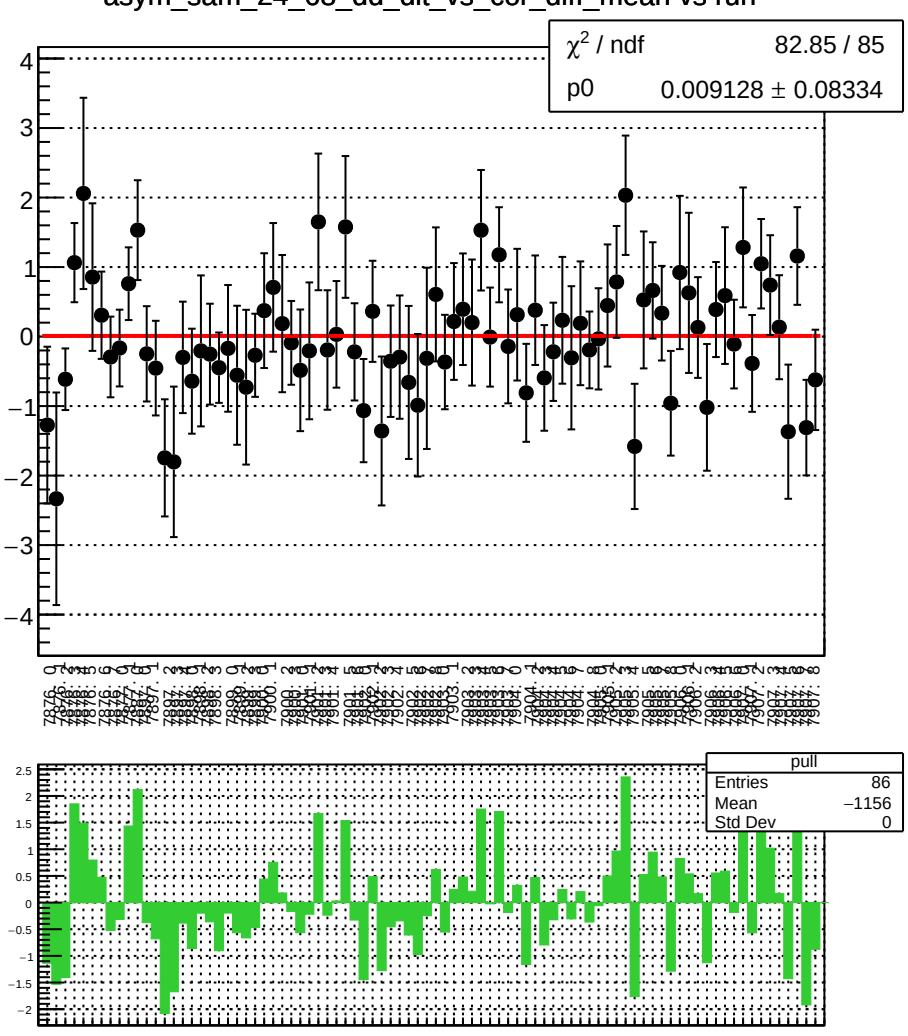

pull1D
Entries 86
Mean −0.01181
Std Dev 0.9798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

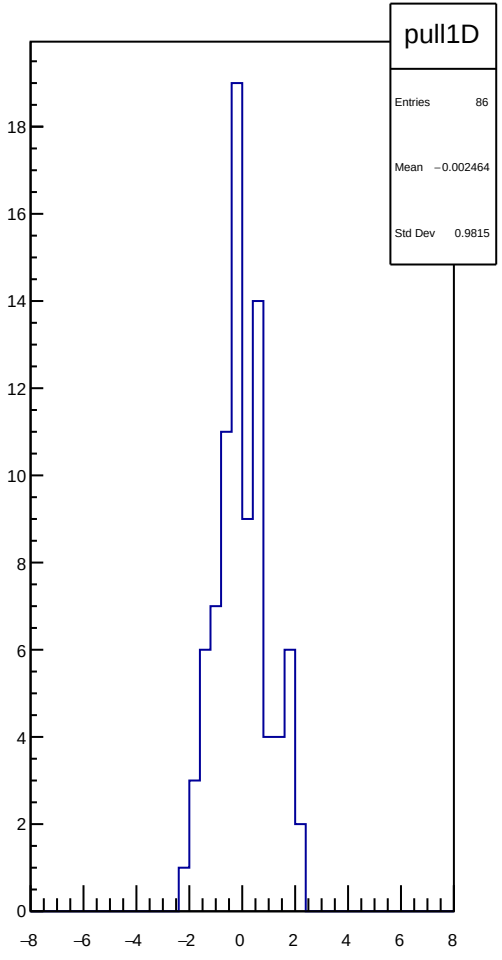

asym_sam_24_68_dd_rms vs run
χ² / ndf 2.084e+04 / 85
p0 3362 ± 2.604
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

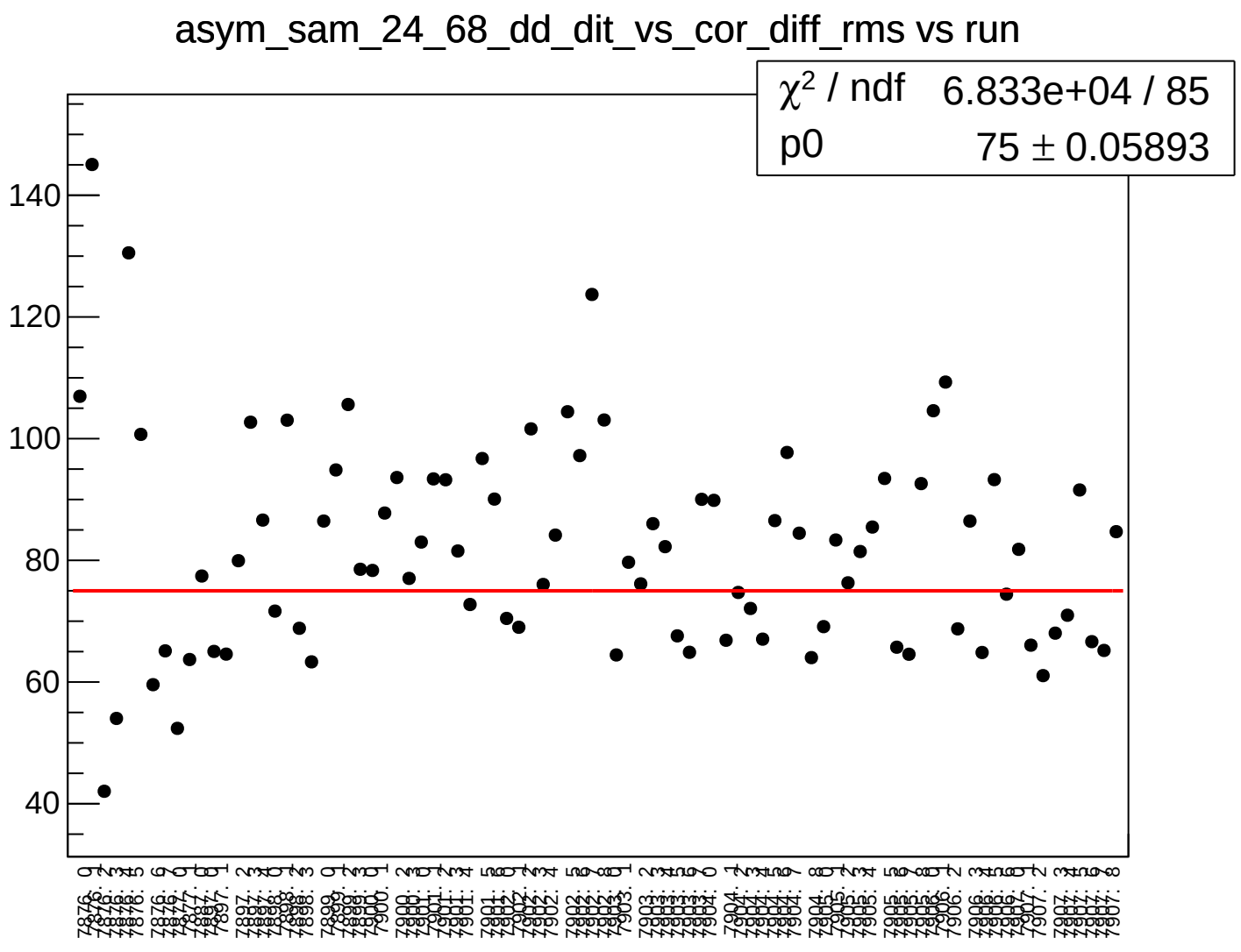

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.87 / 85
p0 3.675e−13 ± 6.011e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 86
Mean 83.76
Std Dev 0
2
1
0
−1
−2

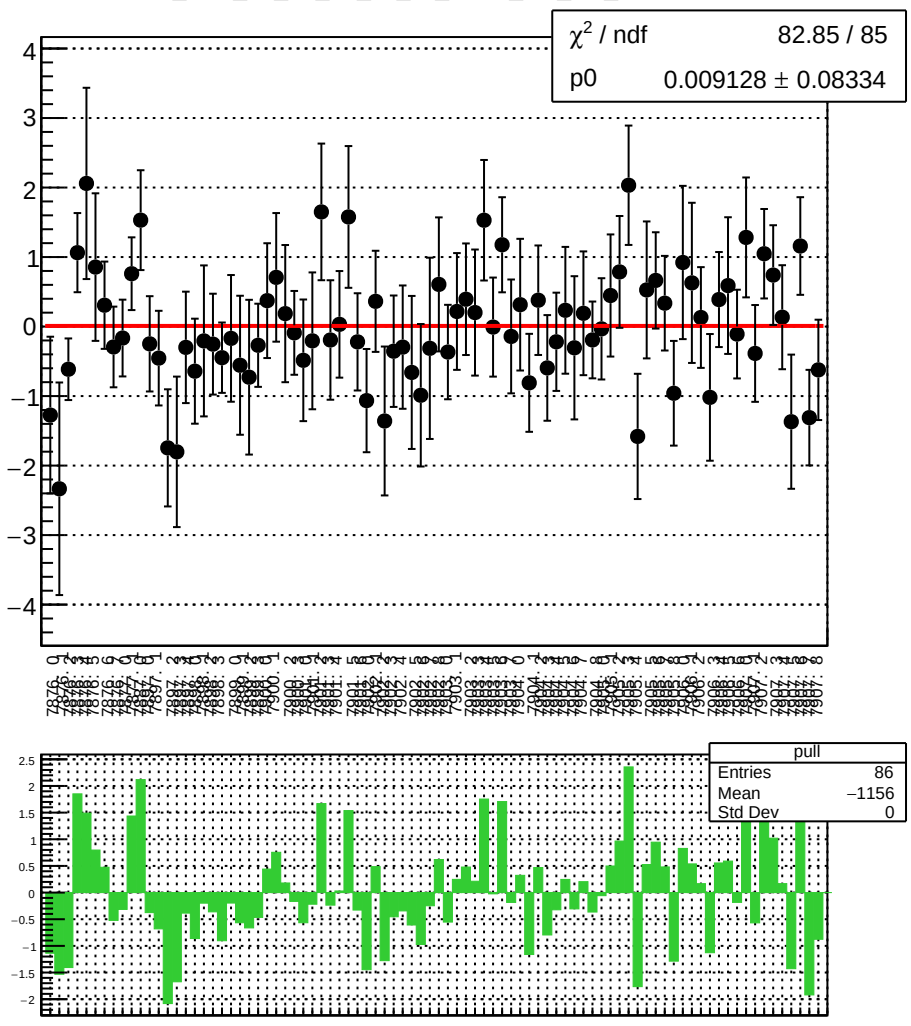

pull1D
Entries 86
Mean 0.05988
Std Dev 0.9185
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

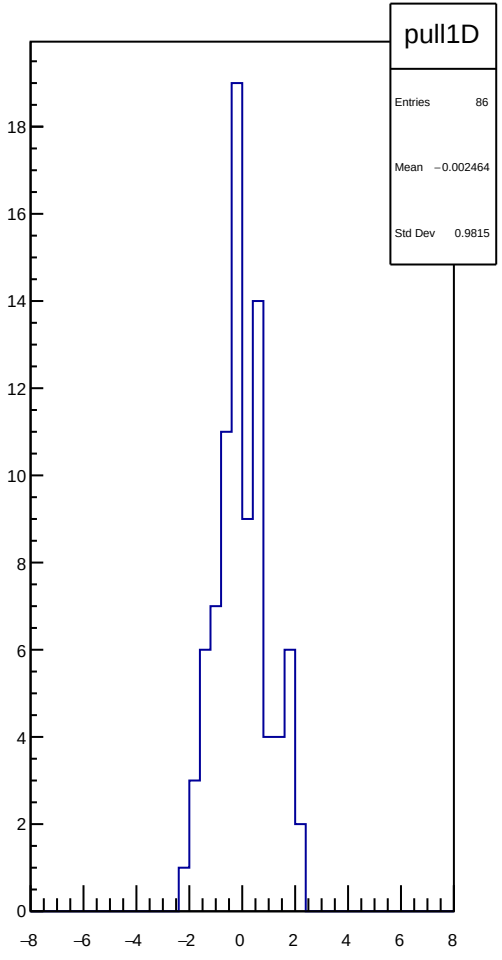

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.885e+05 / 85
p0 3.554e−10 ± 4.25e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

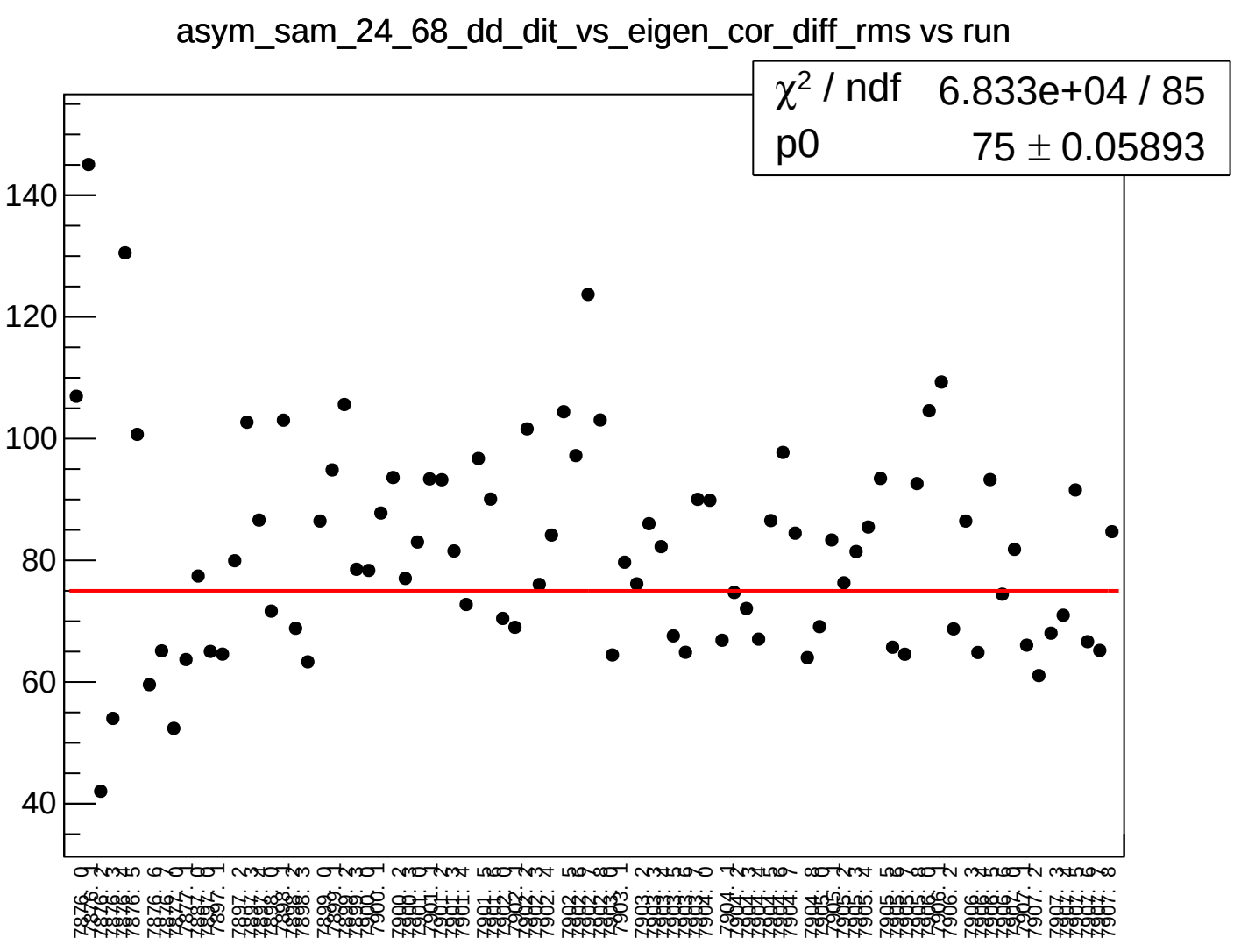

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.85 / 85
p0 0.009128 ± 0.08334
pull
Entries 86
Mean −1156
Std Dev 0

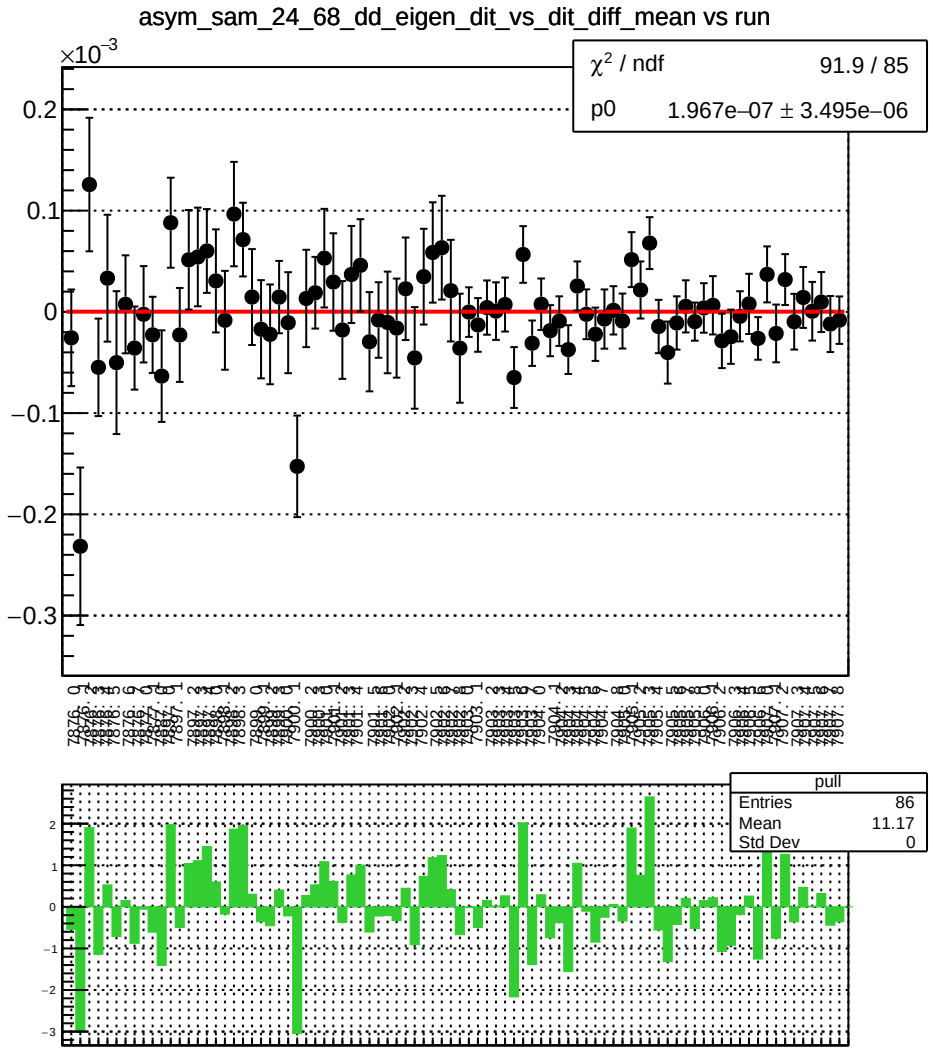

pull1D
Entries 86
Mean −0.002464
Std Dev 0.9815

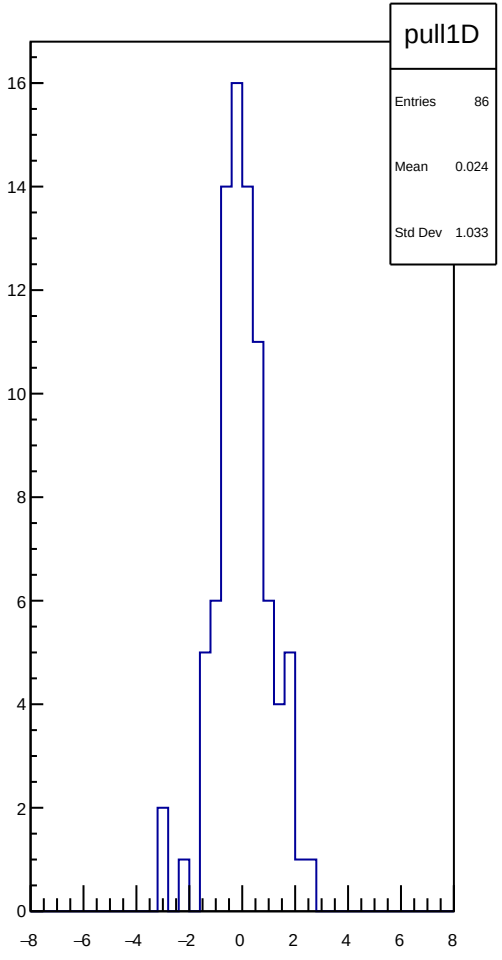

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.833e+04 / 85
p0 75 ± 0.05893
140
120
100
80
60
40

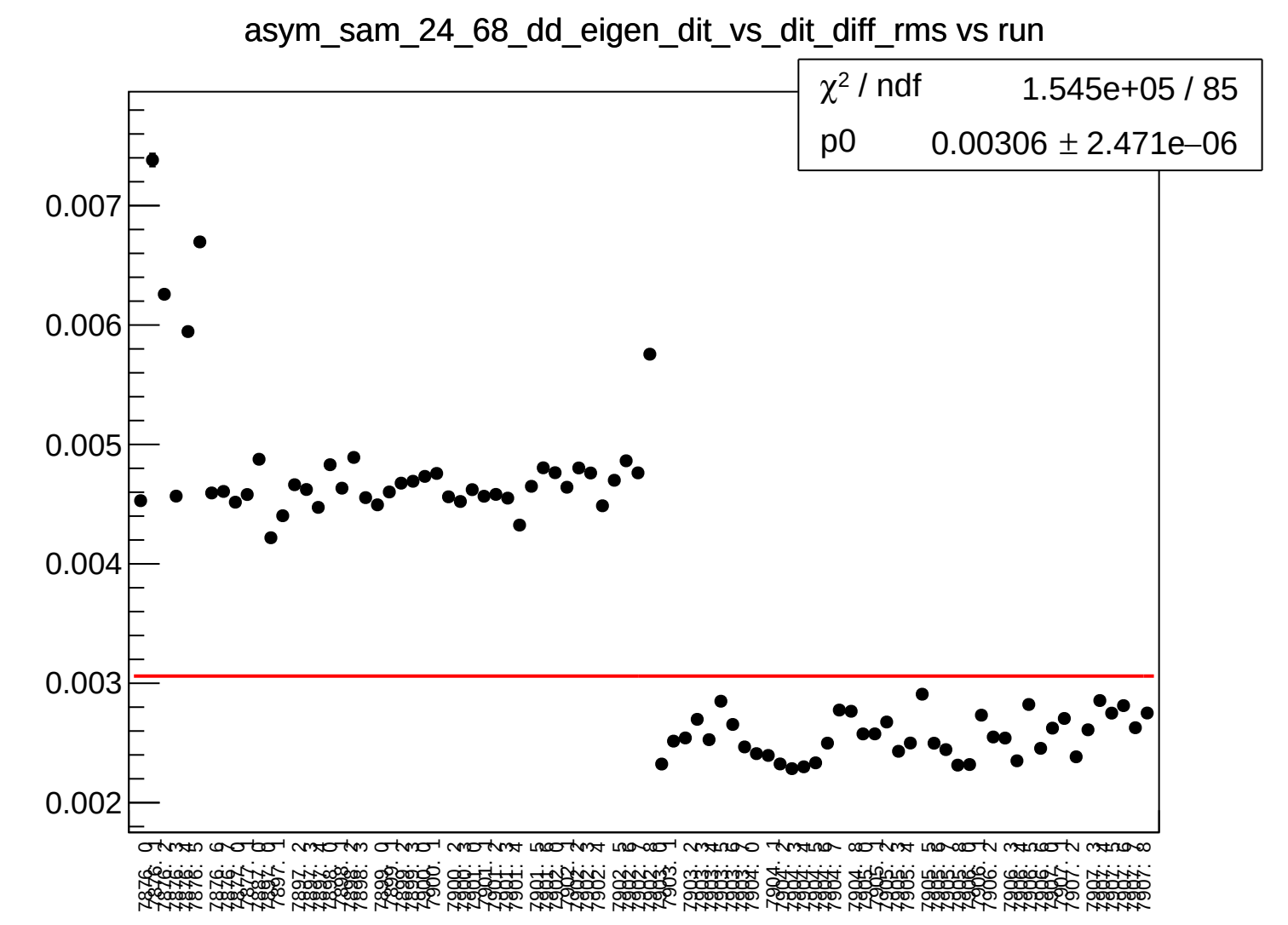

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.85 / 85
p0 0.009128 ± 0.08334
pull
Entries 86
Mean −1156
Std Dev 0

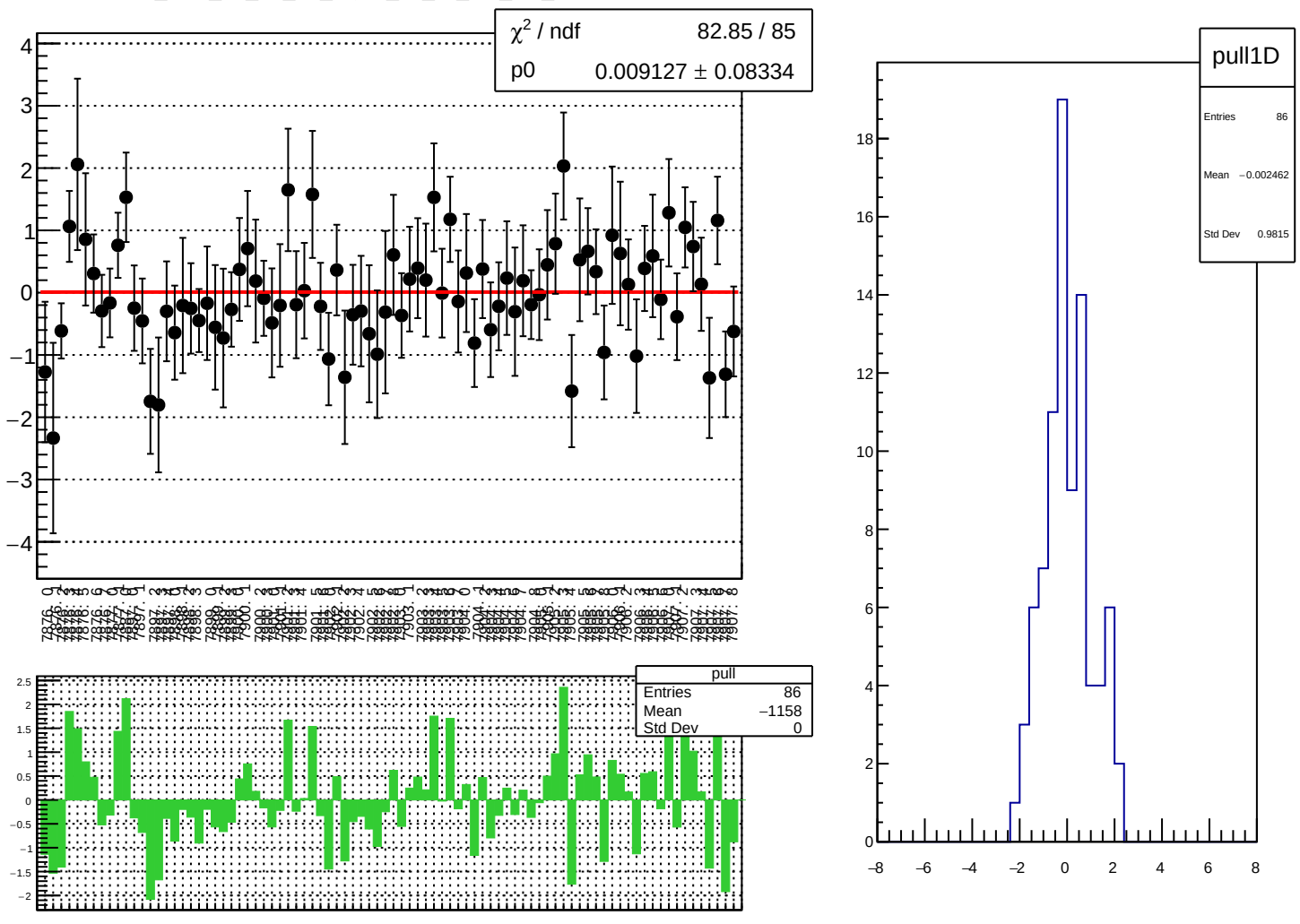

pull1D
Entries 86
Mean −0.002464
Std Dev 0.9815

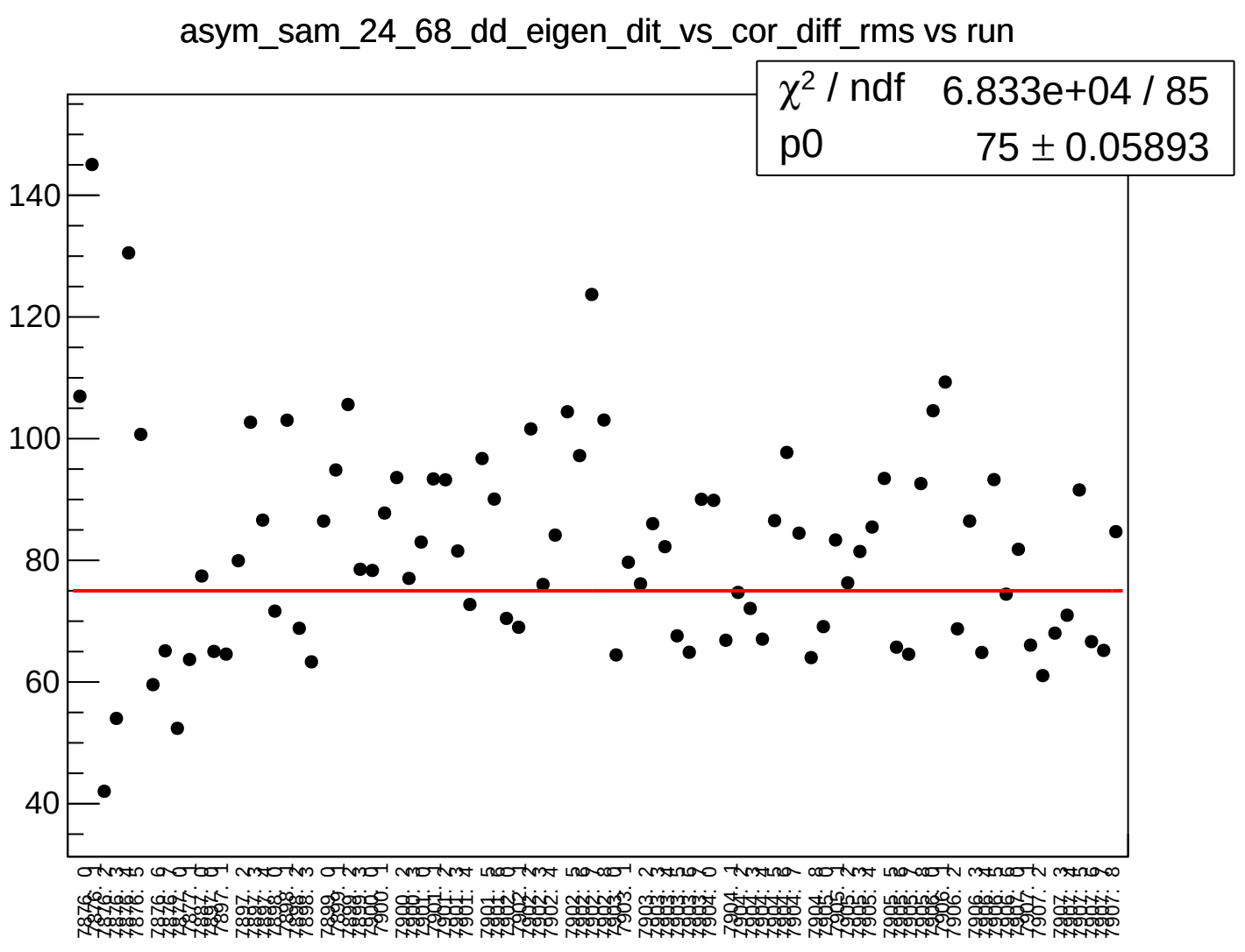

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.833e+04 / 85
p0 75 ± 0.05893
140
120
100
80
60
40

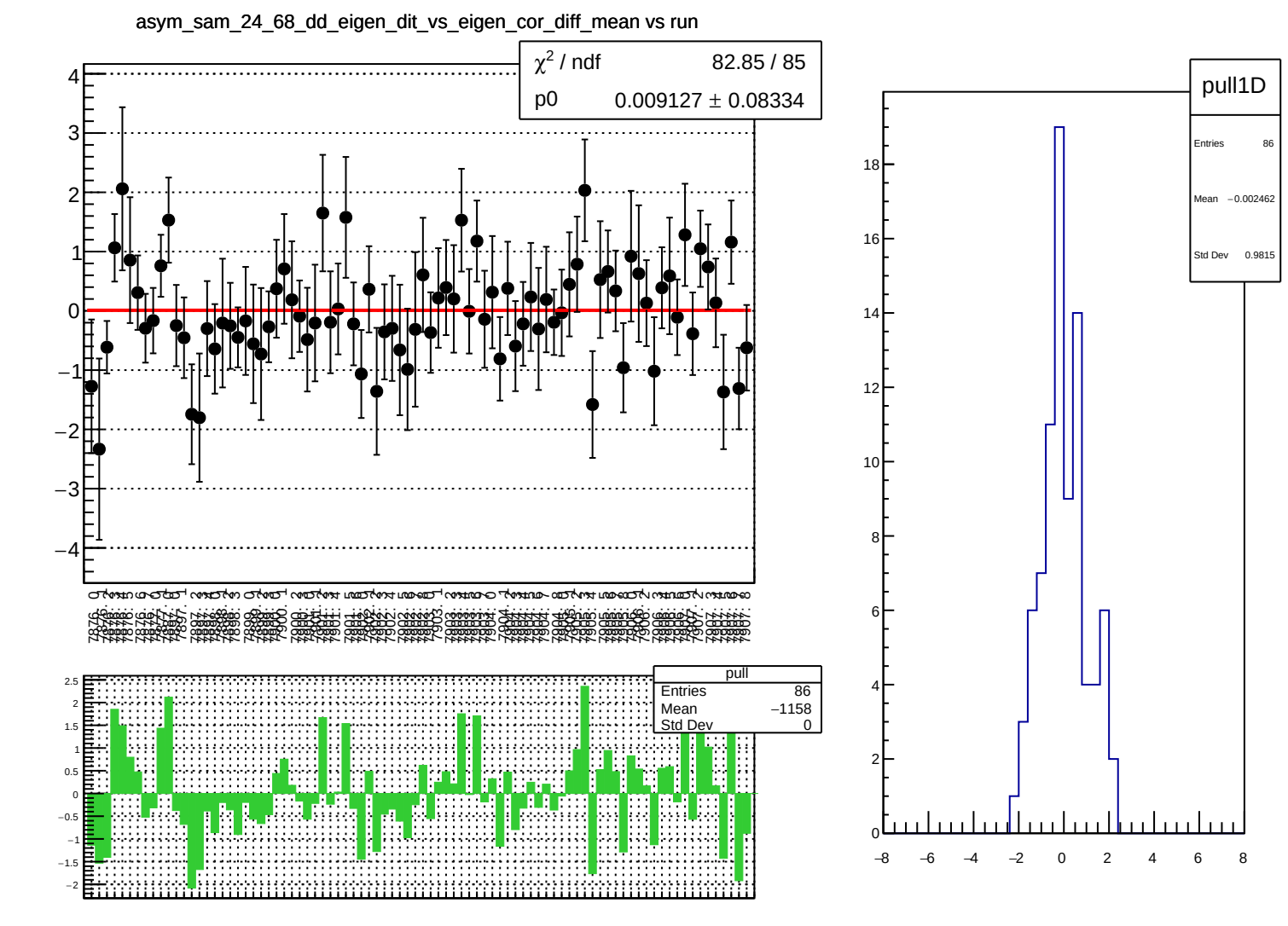

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.9 / 85
p0 1.967e−07 ± 3.495e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 86
Mean 11.17
Std Dev 0
2
1
0
−1
−2
−3

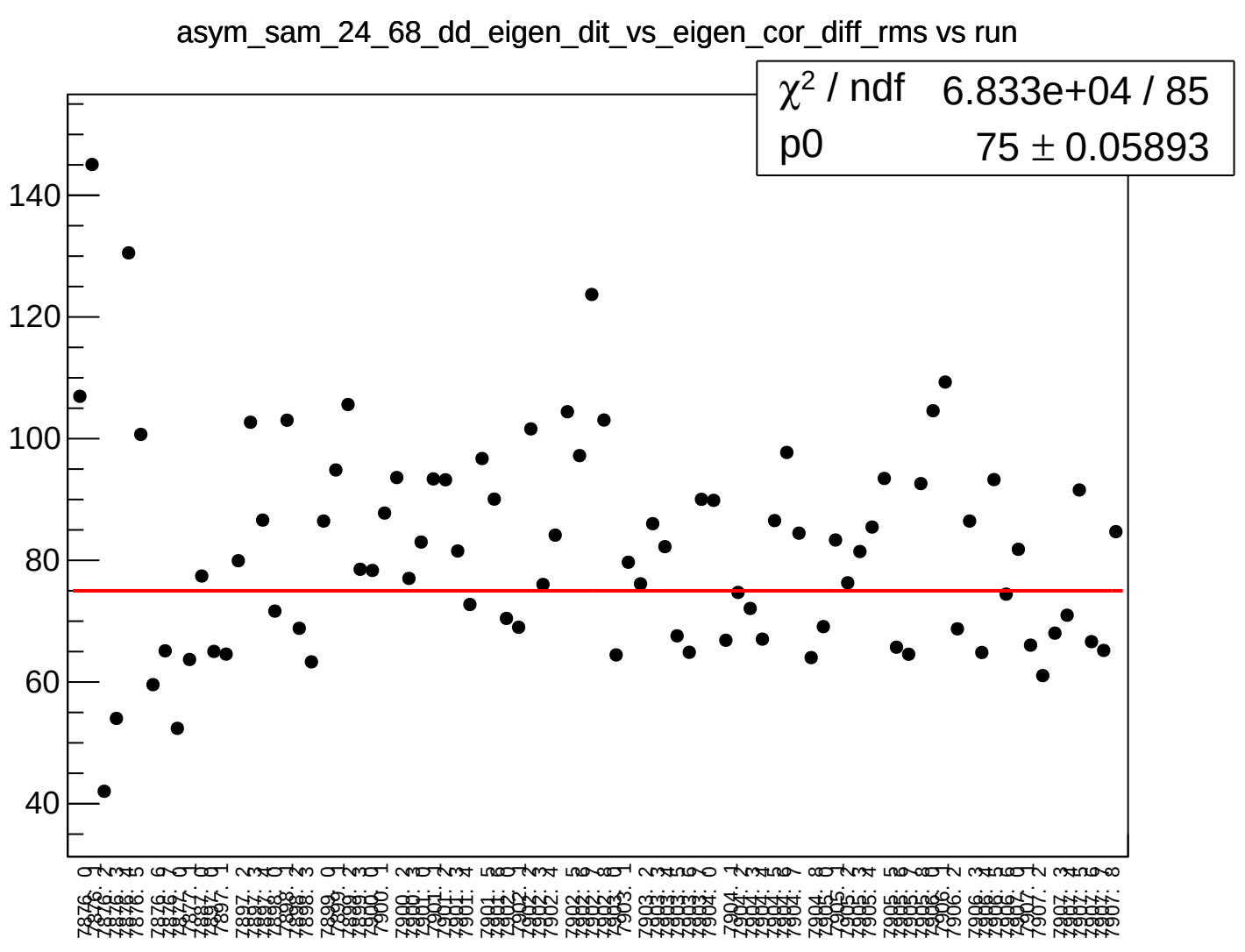

pull1D
Entries 86
Mean 0.024
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

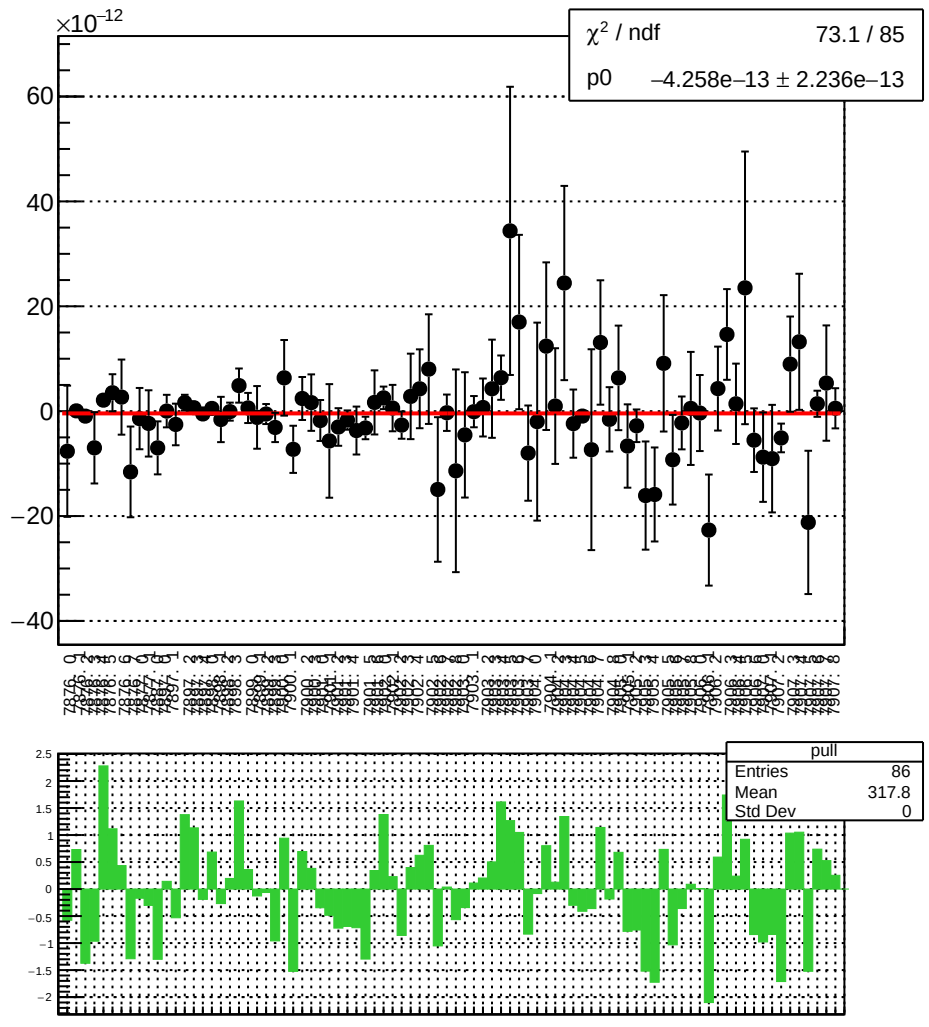

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.545e+05 / 85
p0 0.00306 ± 2.471e–06
0.007
0.006
0.005
0.004
0.003
0.002

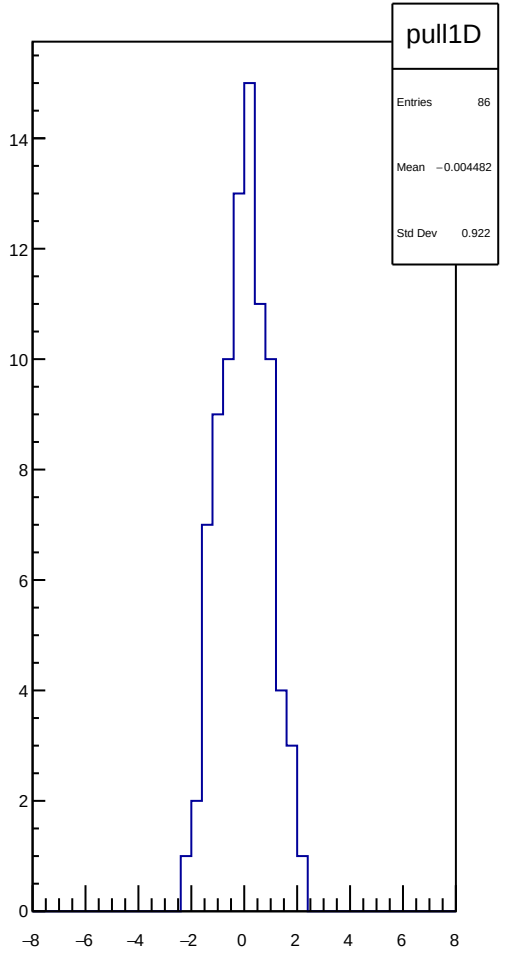

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.85 / 85
p0 0.009127 ± 0.08334
pull
Entries 86
Mean −1158
Std Dev 0
pull1D
Entries 86
Mean −0.002462
Std Dev 0.9815

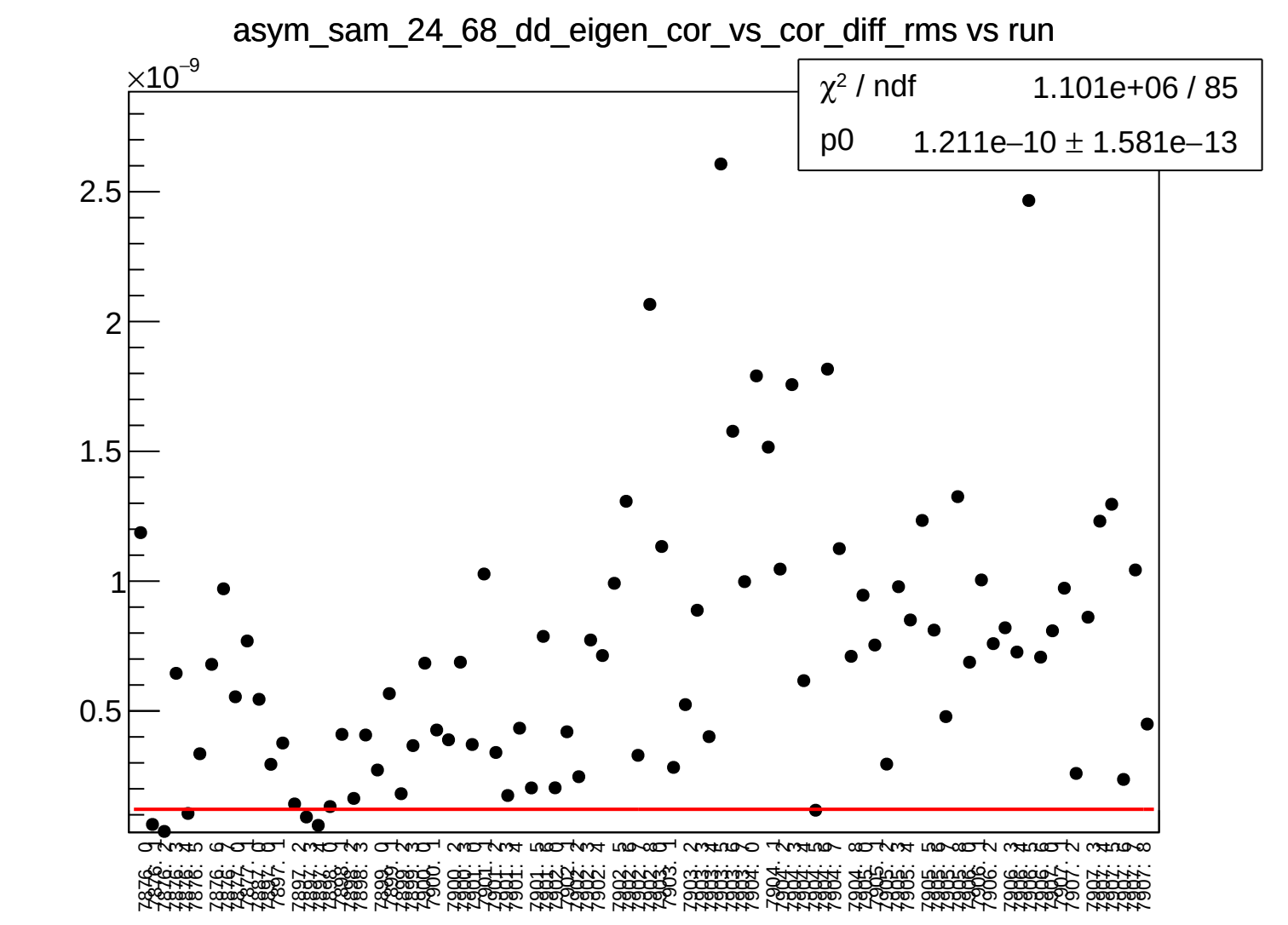

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.833e+04 / 85
p0 75 ± 0.05893
140
120
100
80
60
40

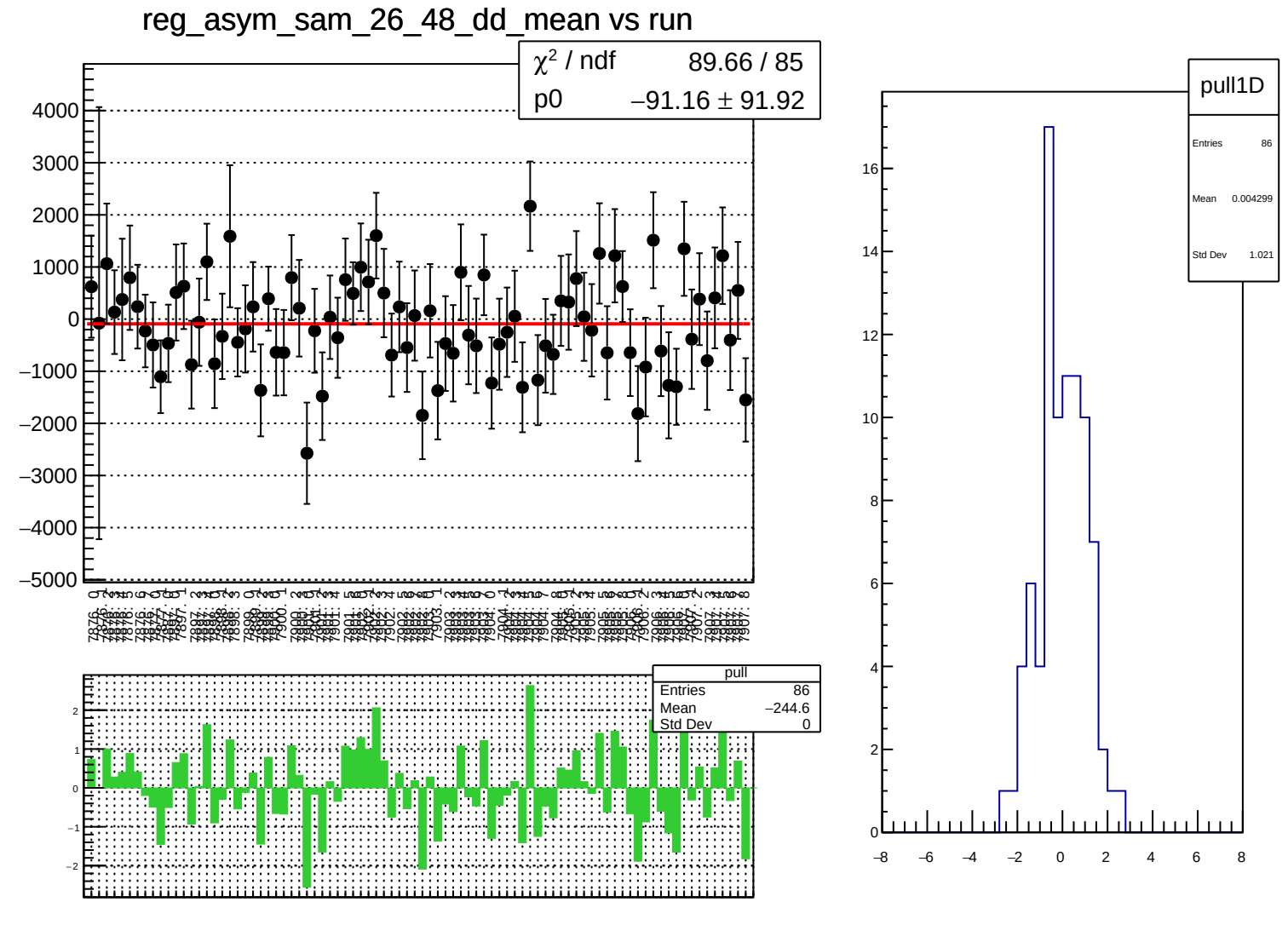

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.85 / 85
p0 0.009127 ± 0.08334
pull
Entries 86
Mean −1158
Std Dev 0
pull1D
Entries 86
Mean −0.002462
Std Dev 0.9815

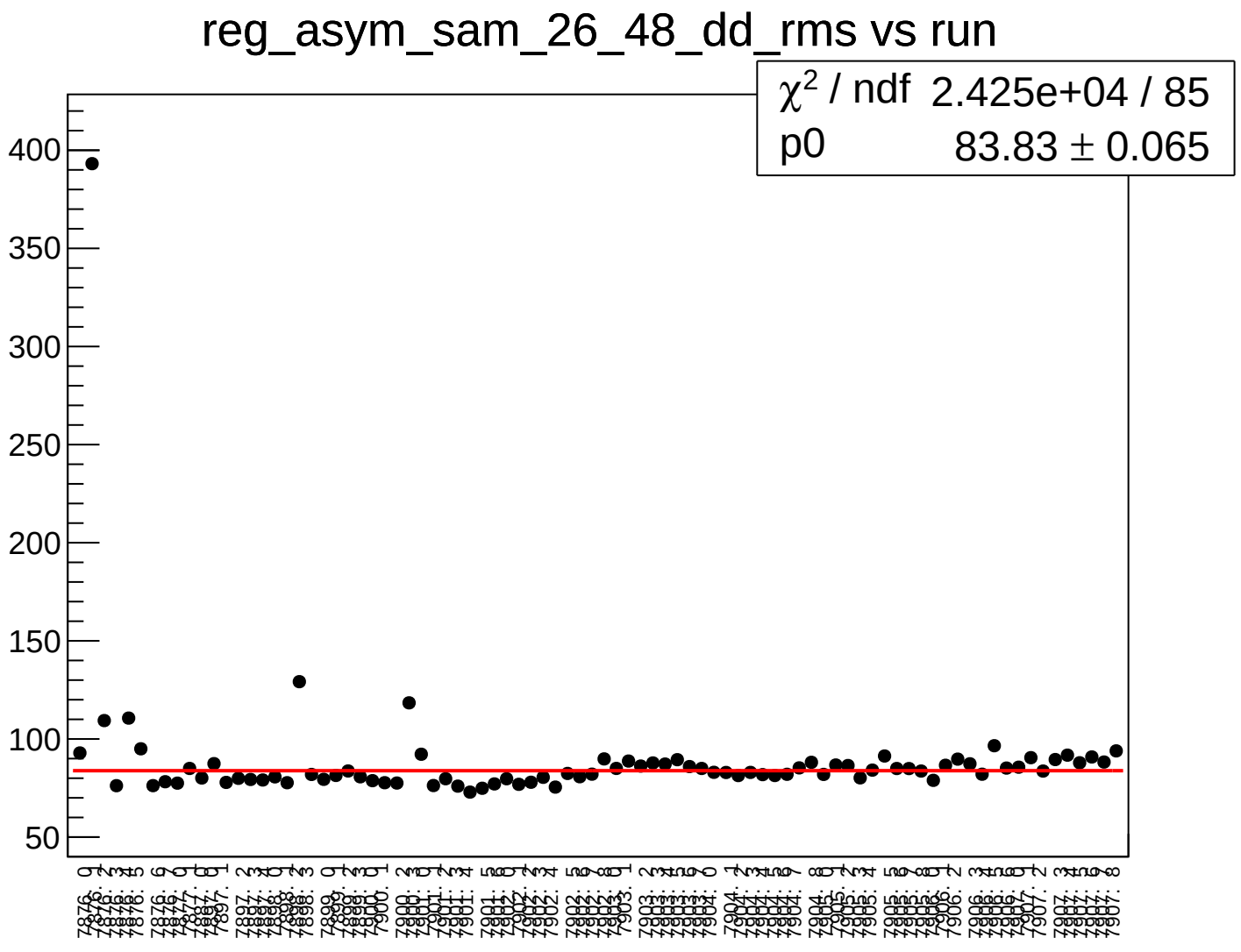

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.833e+04 / 85
p0 75 ± 0.05893
140
120
100
80
60
40

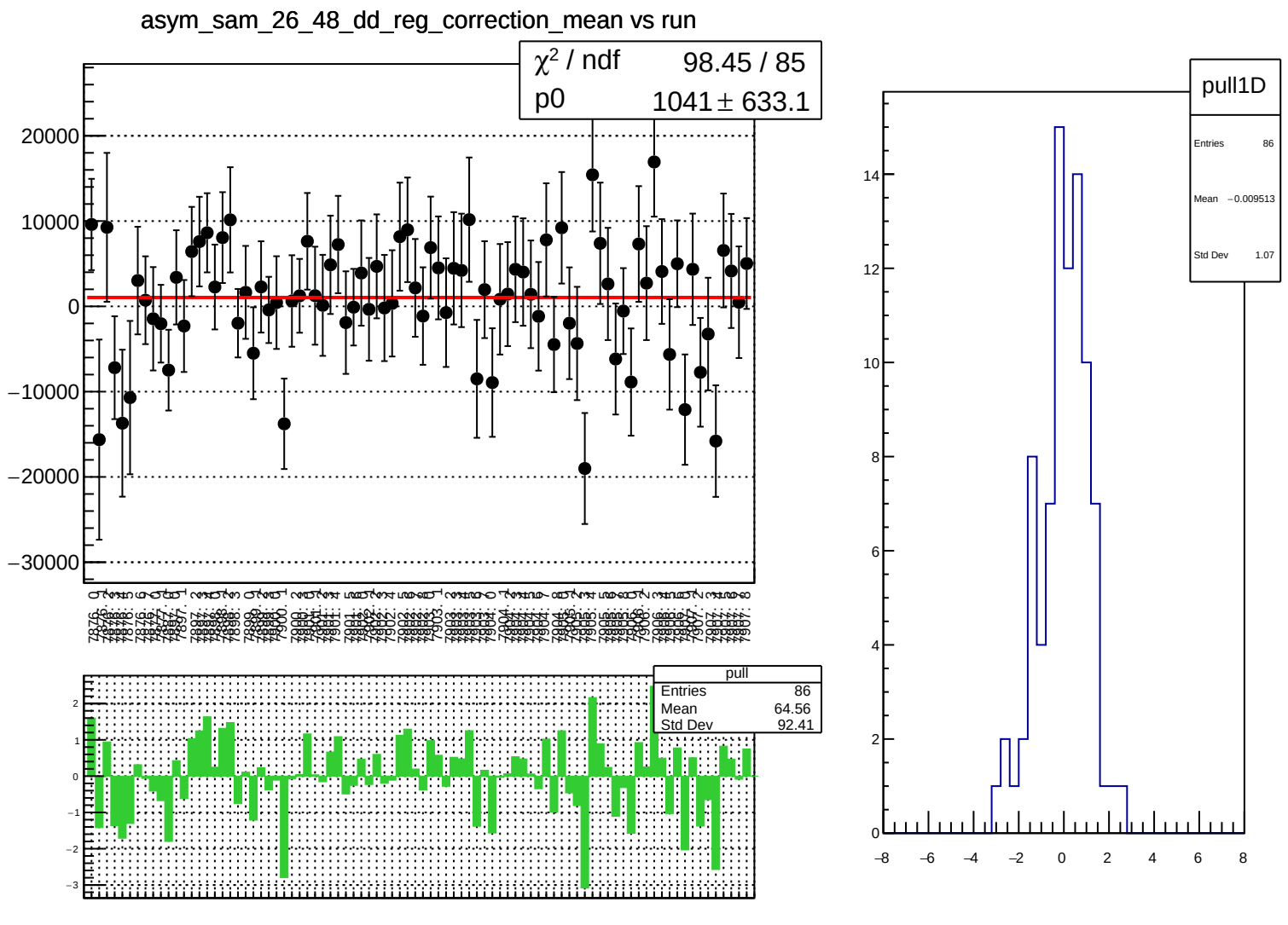

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.1 / 85
p0 −4.258e−13 ± 2.236e−13
60
40
20
0
−20
−40
pull
Entries 86
Mean 317.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

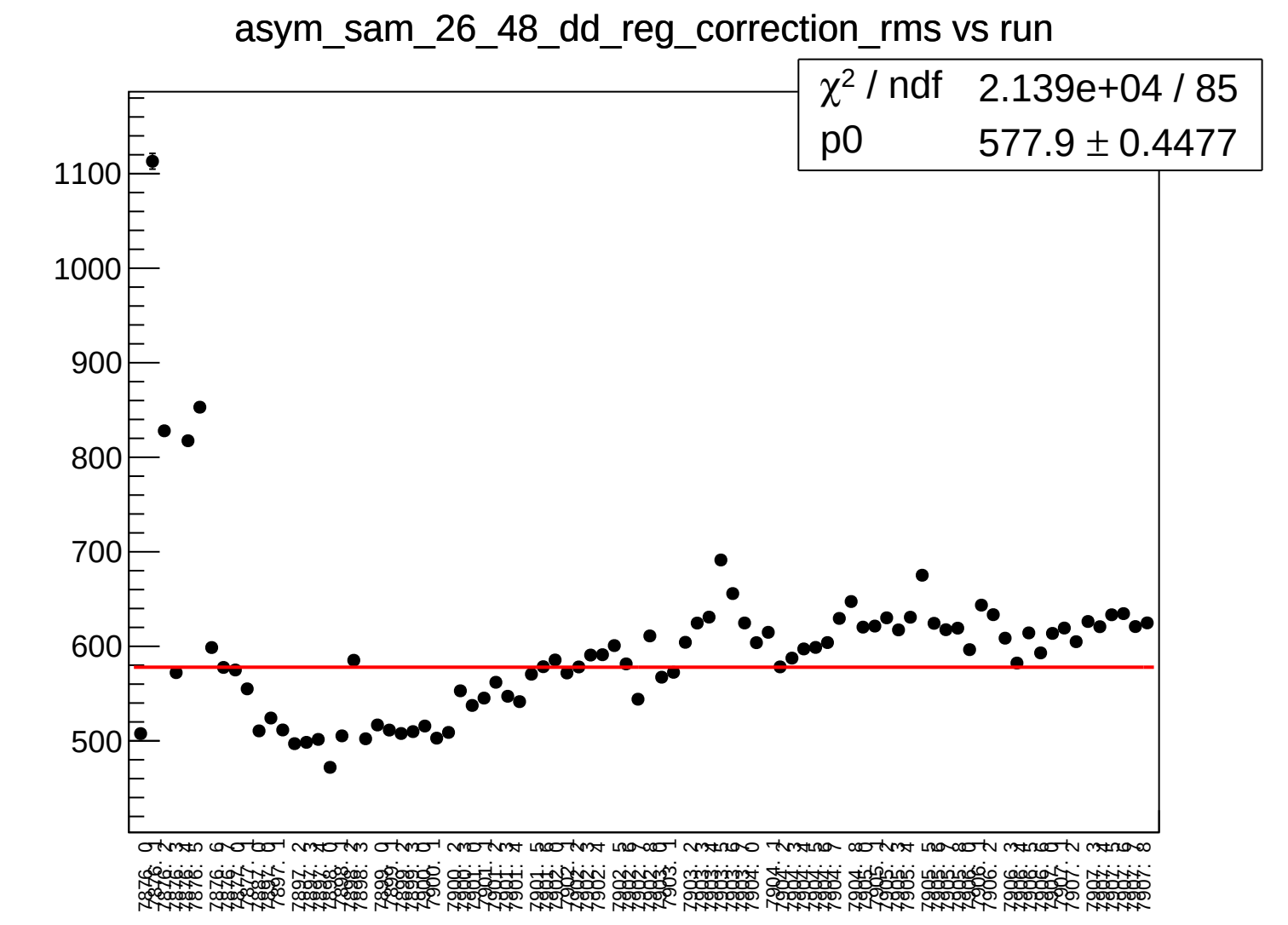

pull1D
Entries 86
Mean −0.004482
Std Dev 0.922
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

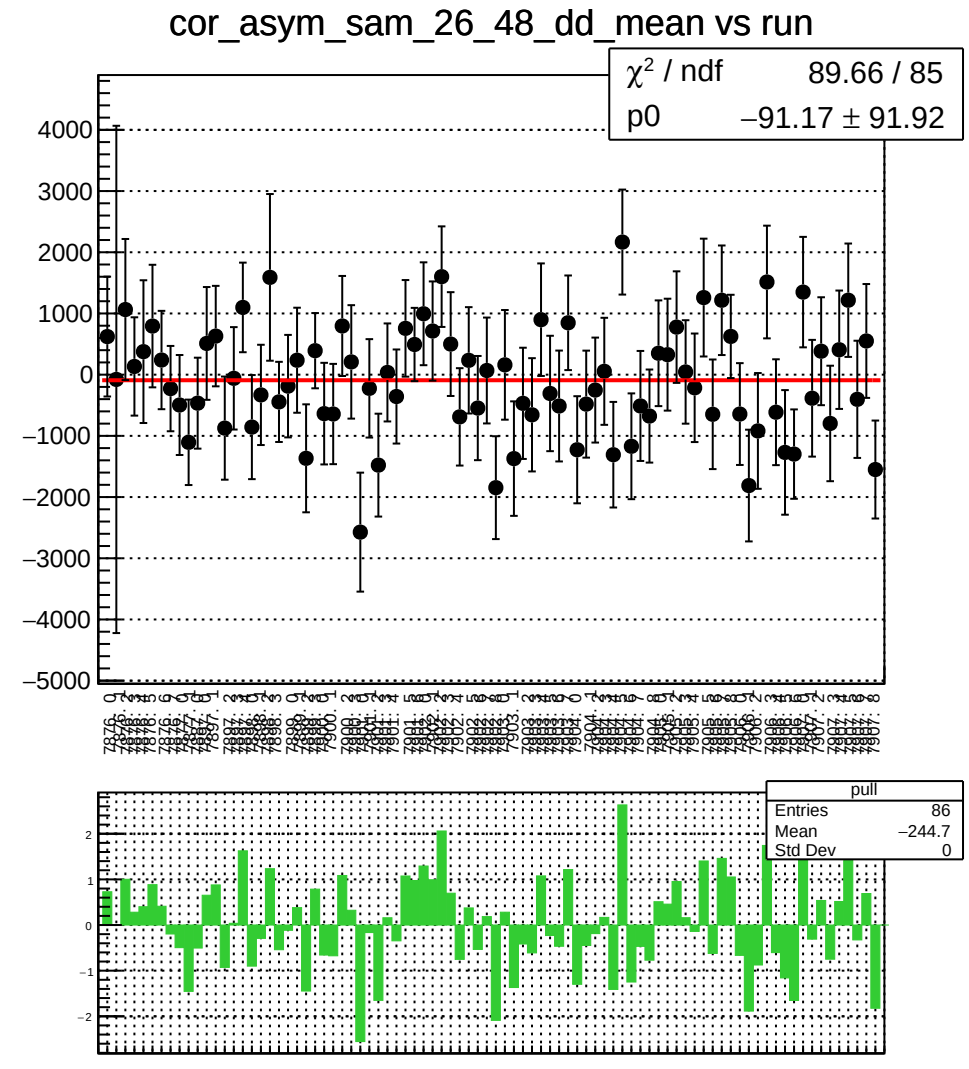

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.101e+06 / 85
p0 1.211e−10 ± 1.581e−13
2.5
2
1.5
1
0.5

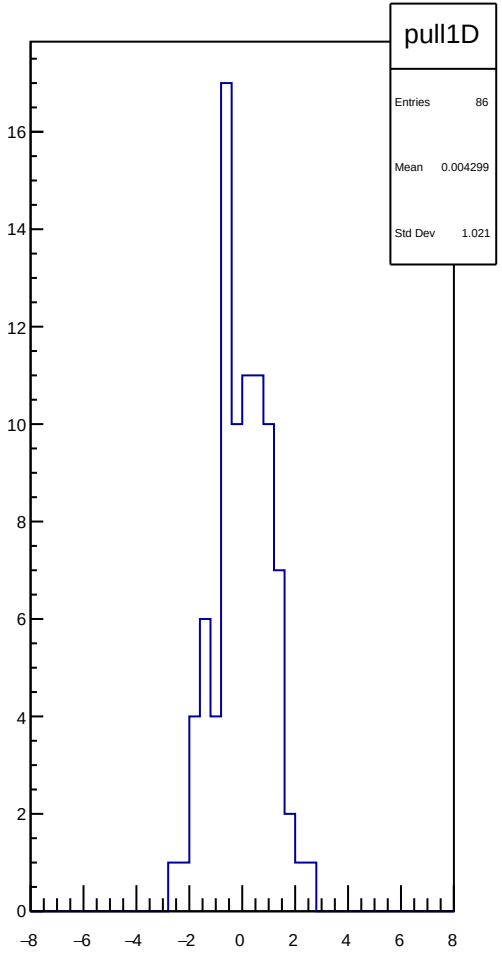

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.66 / 85
p0 −91.16 ± 91.92
pull
Entries 86
Mean −244.6
Std Dev 0
pull1D
Entries 86
Mean 0.004299
Std Dev 1.021

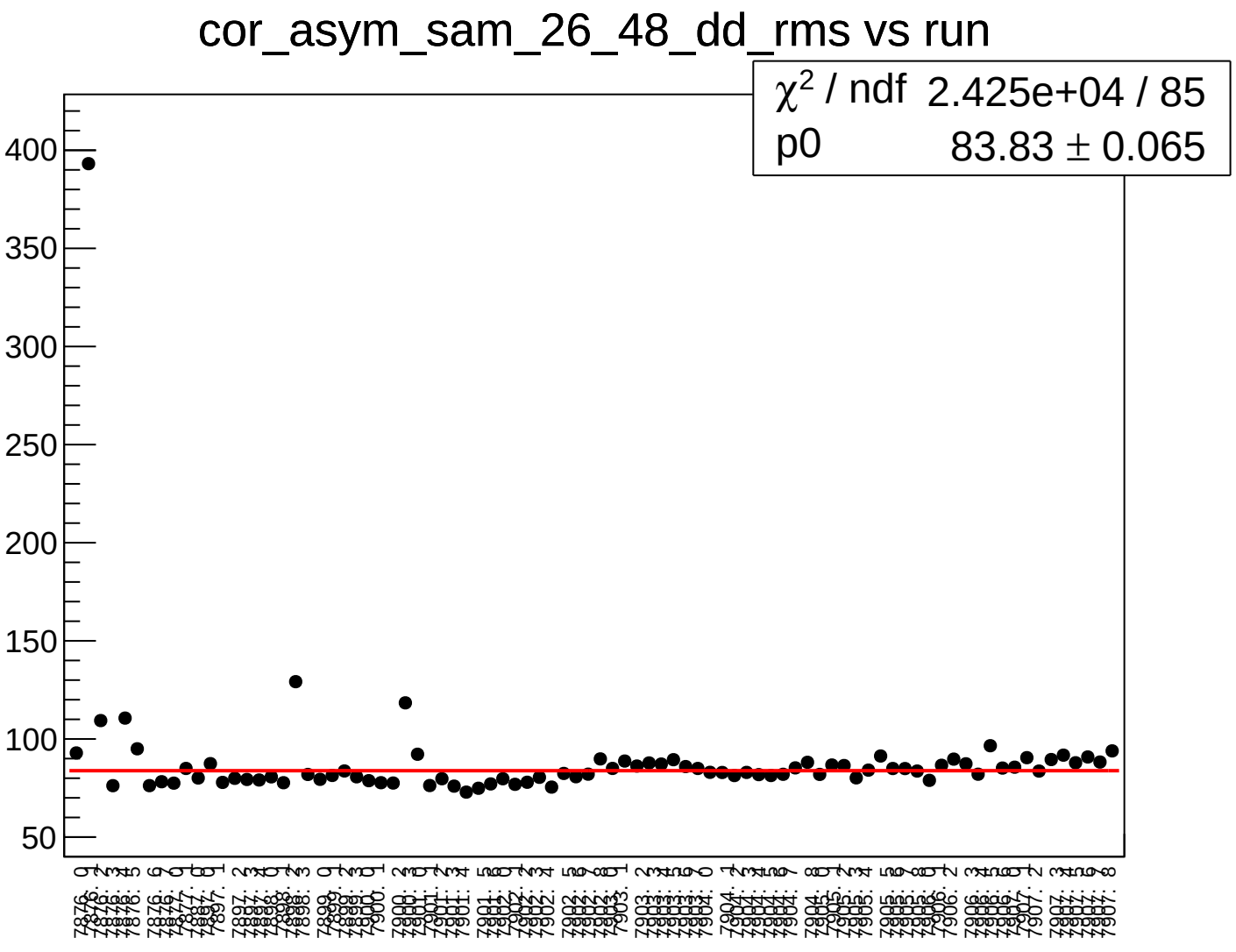

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2.425e+04 / 85
p0 83.83 ± 0.065
400
350
300
250
200
150
100
50

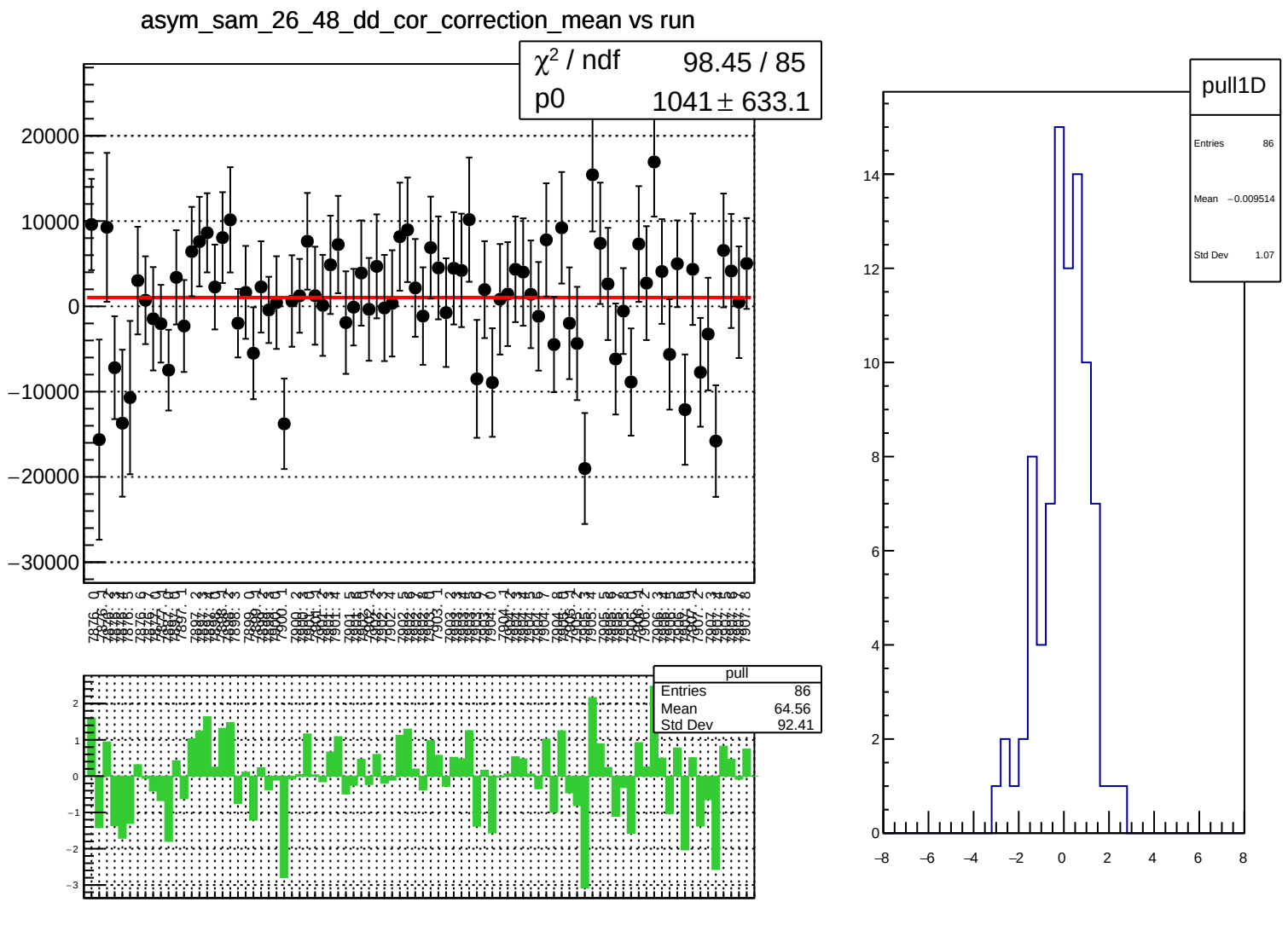

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 98.45 / 85
p0 1041 ± 633.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 64.56
Std Dev 92.41
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.009513
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

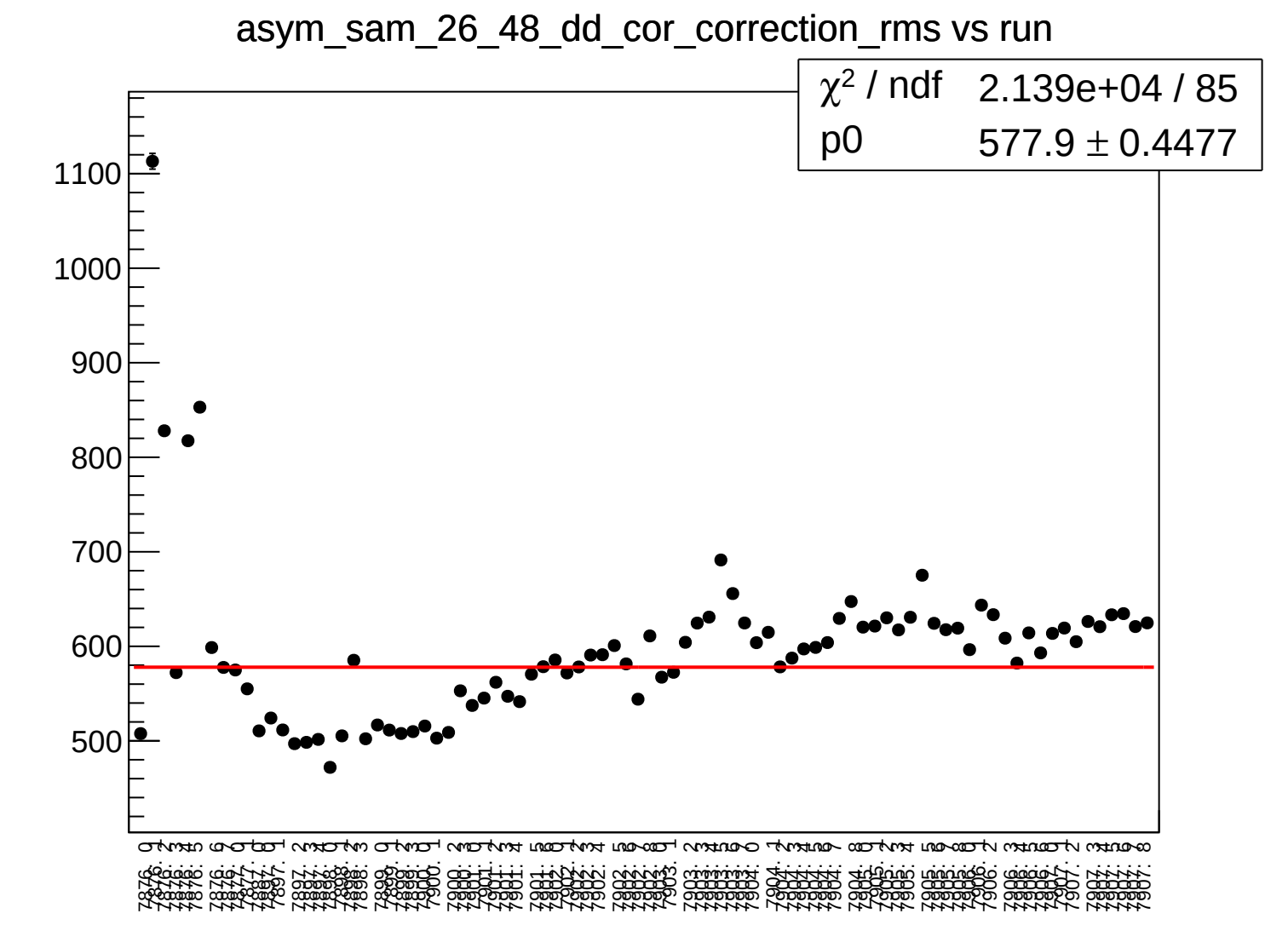

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 2.139e+04 / 85
p0 577.9 ± 0.4477
1100
1000
900
800
700
600
500

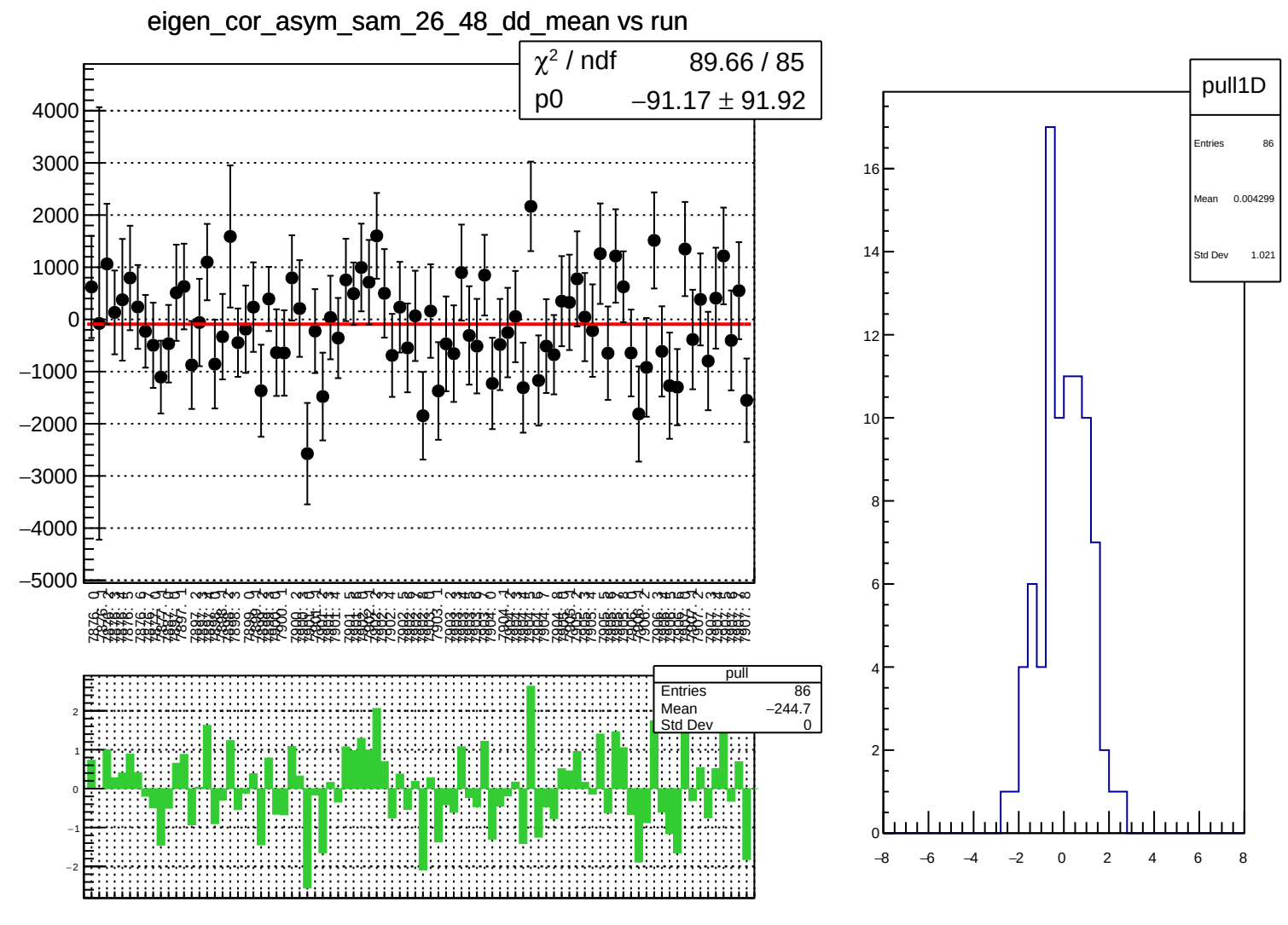

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.66 / 85
p0 −91.17 ± 91.92
pull
Entries 86
Mean −244.7
Std Dev 0

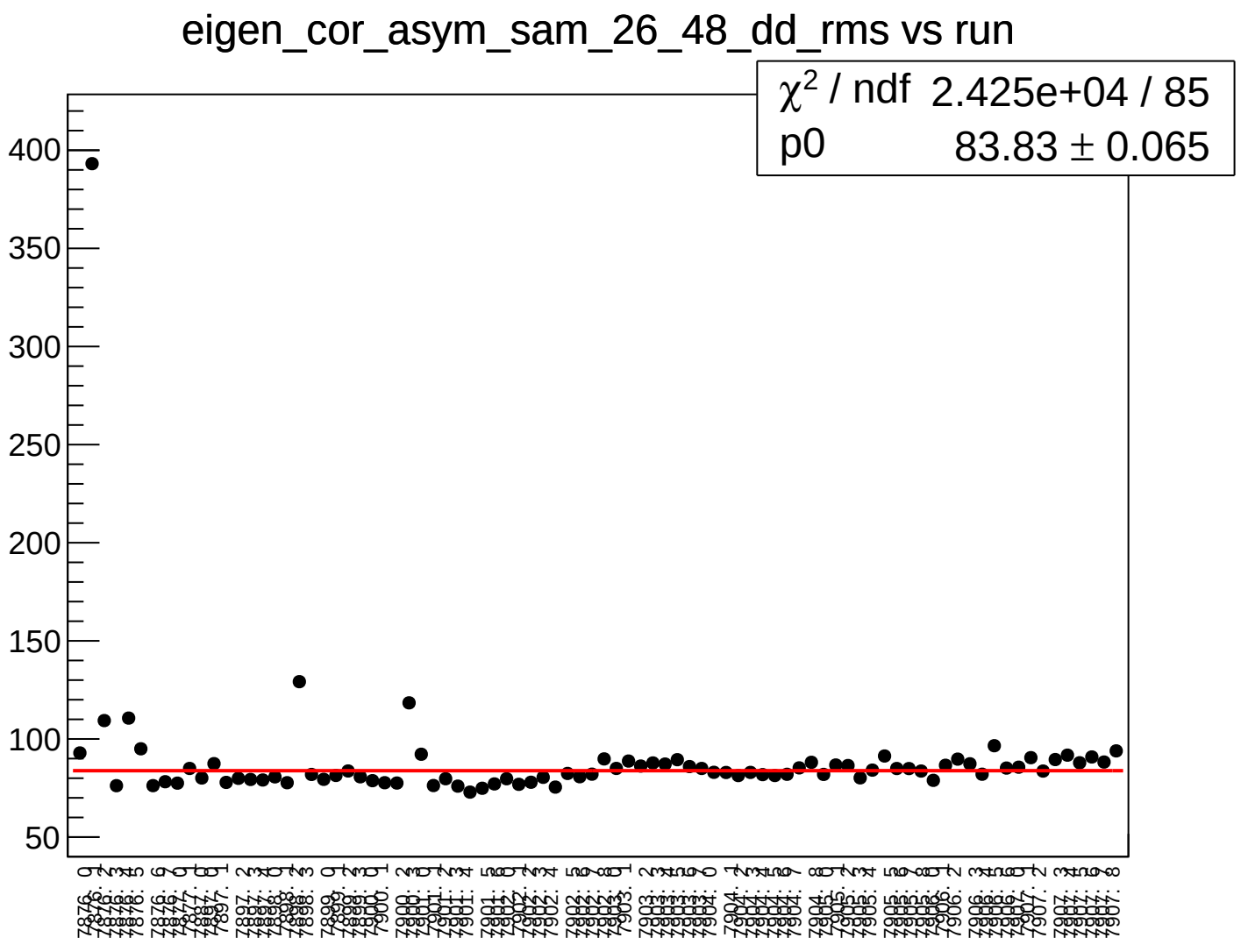

pull1D
Entries 86
Mean 0.004299
Std Dev 1.021

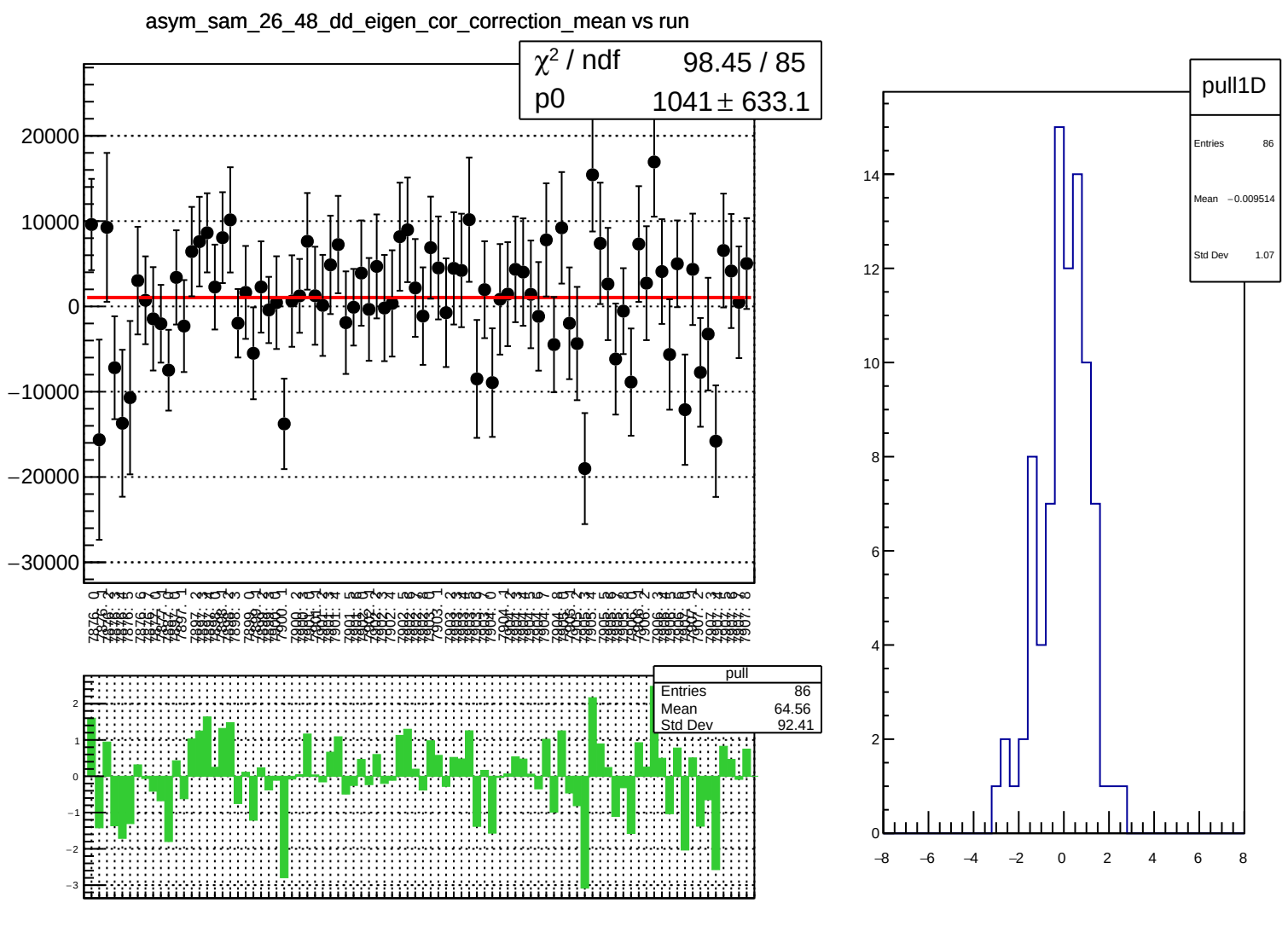

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2.425e+04 / 85
p0 83.83 ± 0.065
400
350
300
250
200
150
100
50

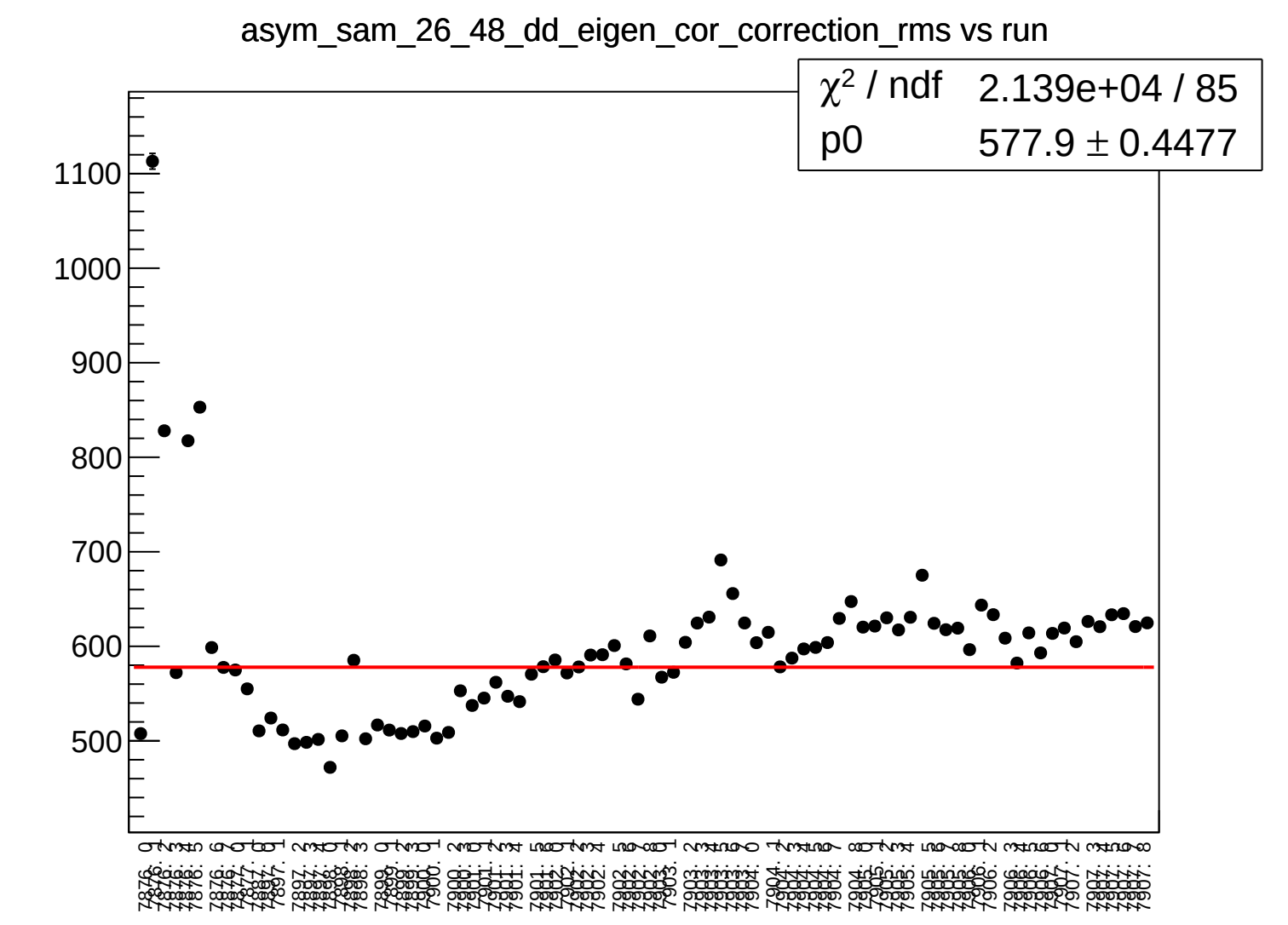

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 98.45 / 85
p0 1041 ± 633.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 64.56
Std Dev 92.41
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.009514
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

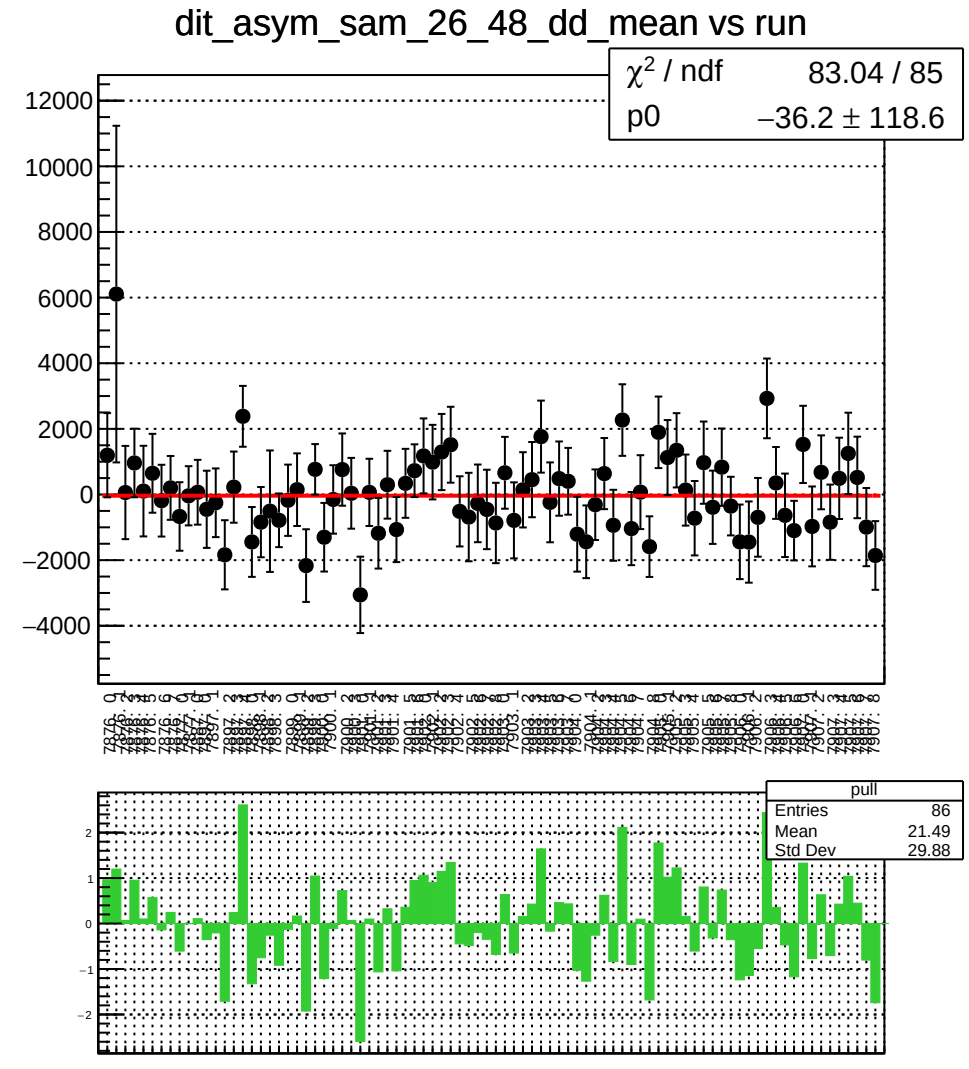

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 2.139e+04 / 85
p0 577.9 ± 0.4477
1100
1000
900
800
700
600
500

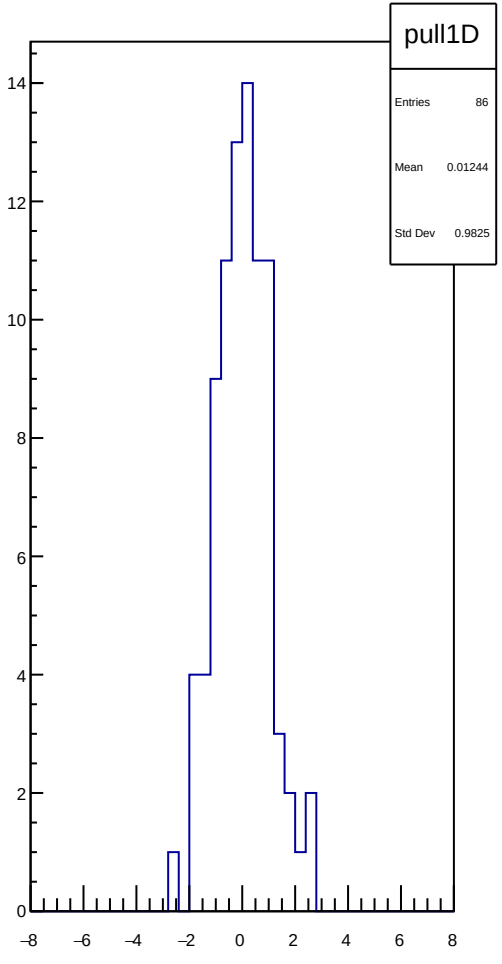

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.66 / 85
p0 −91.17 ± 91.92
pull
Entries 86
Mean −244.7
Std Dev 0
pull1D
Entries 86
Mean 0.004299
Std Dev 1.021

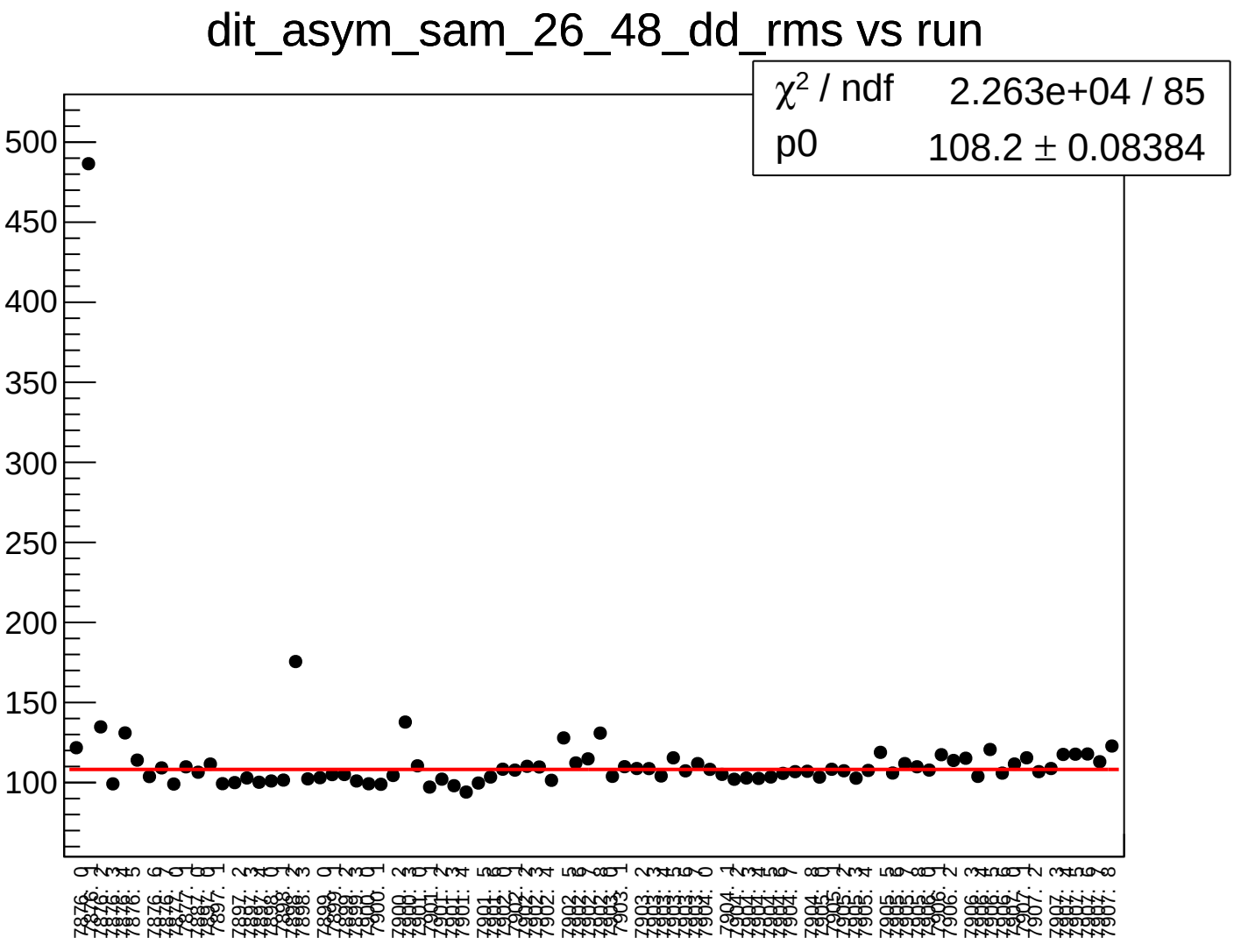

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.425e+04 / 85
p0 83.83 ± 0.065
400
350
300
250
200
150
100
50

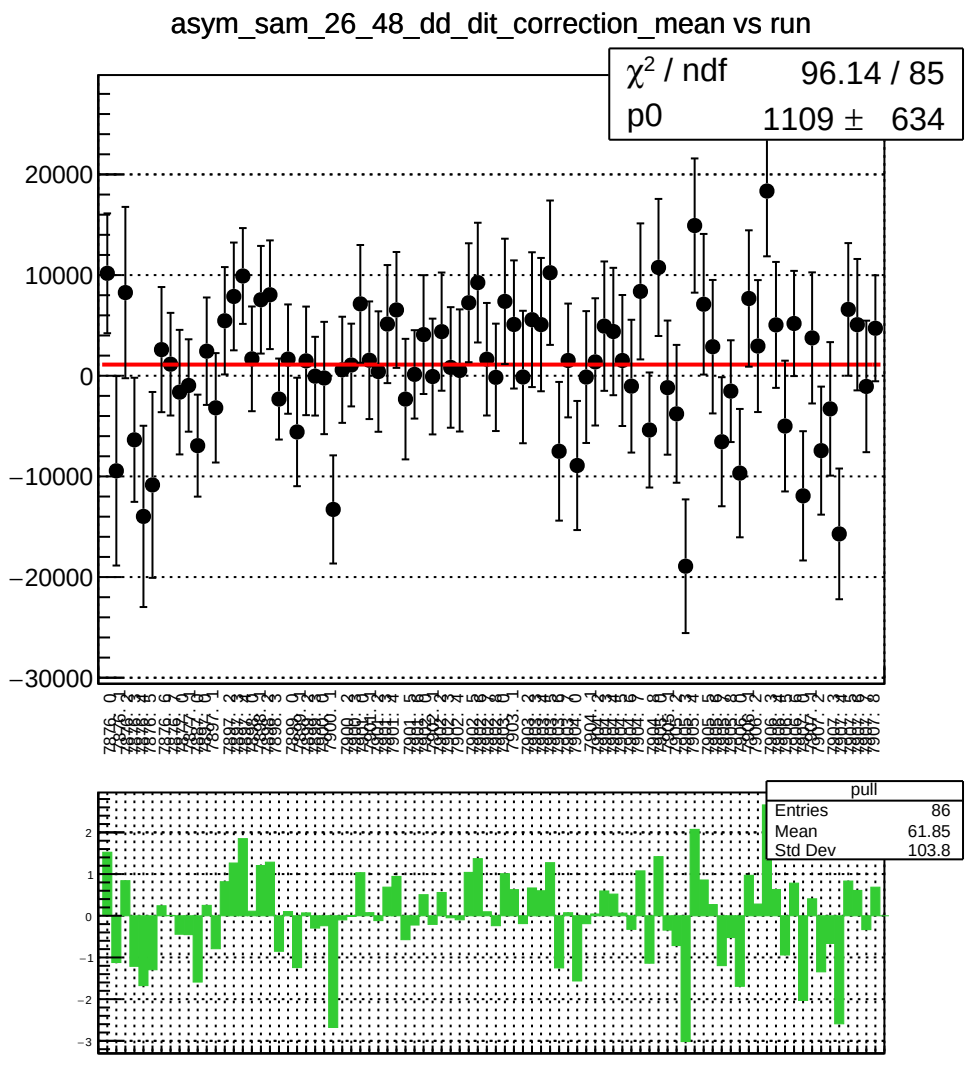

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.45 / 85
p0 1041 ± 633.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 64.56
Std Dev 92.41
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.009514
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

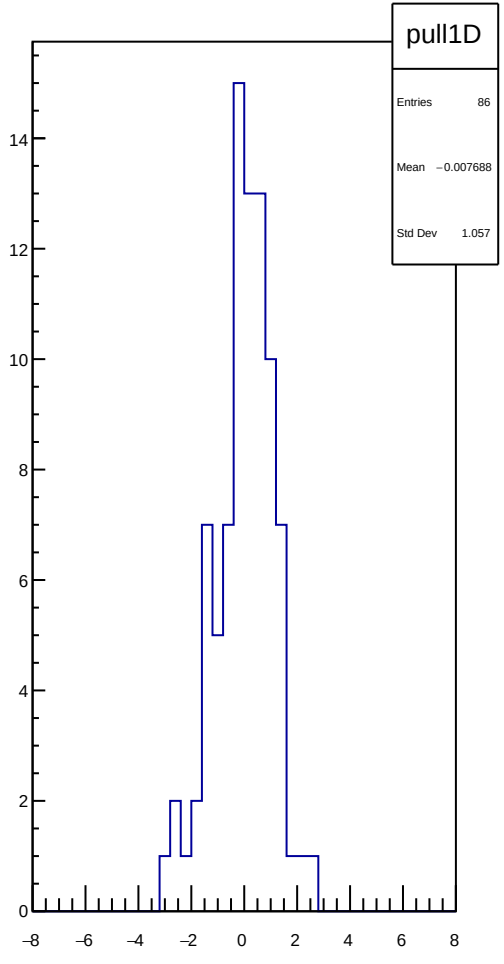

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.139e+04 / 85
p0 577.9 ± 0.4477
1100
1000
900
800
700
600
500

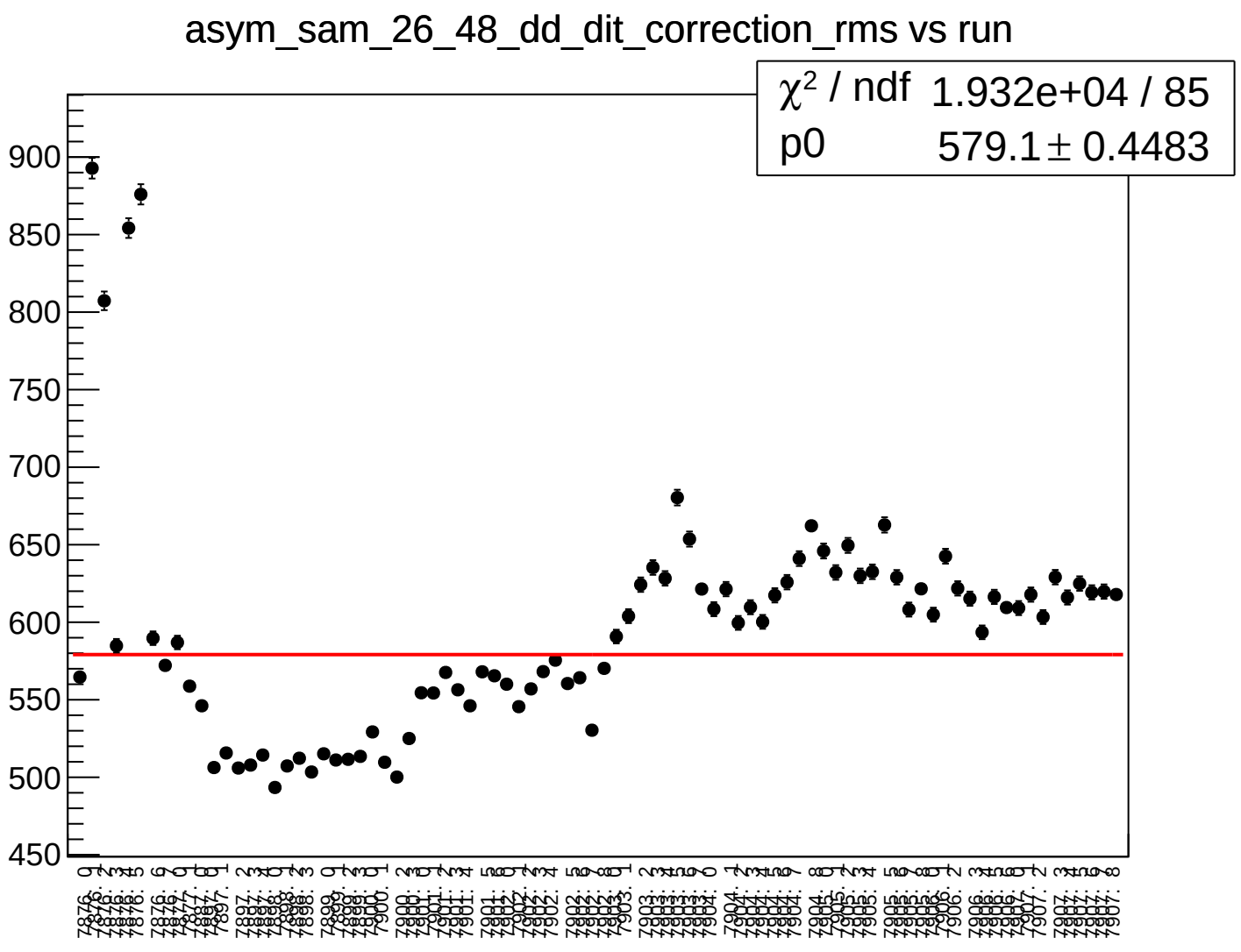

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.04 / 85
p0 −36.2 ± 118.6
pull
Entries 86
Mean 21.49
Std Dev 29.88

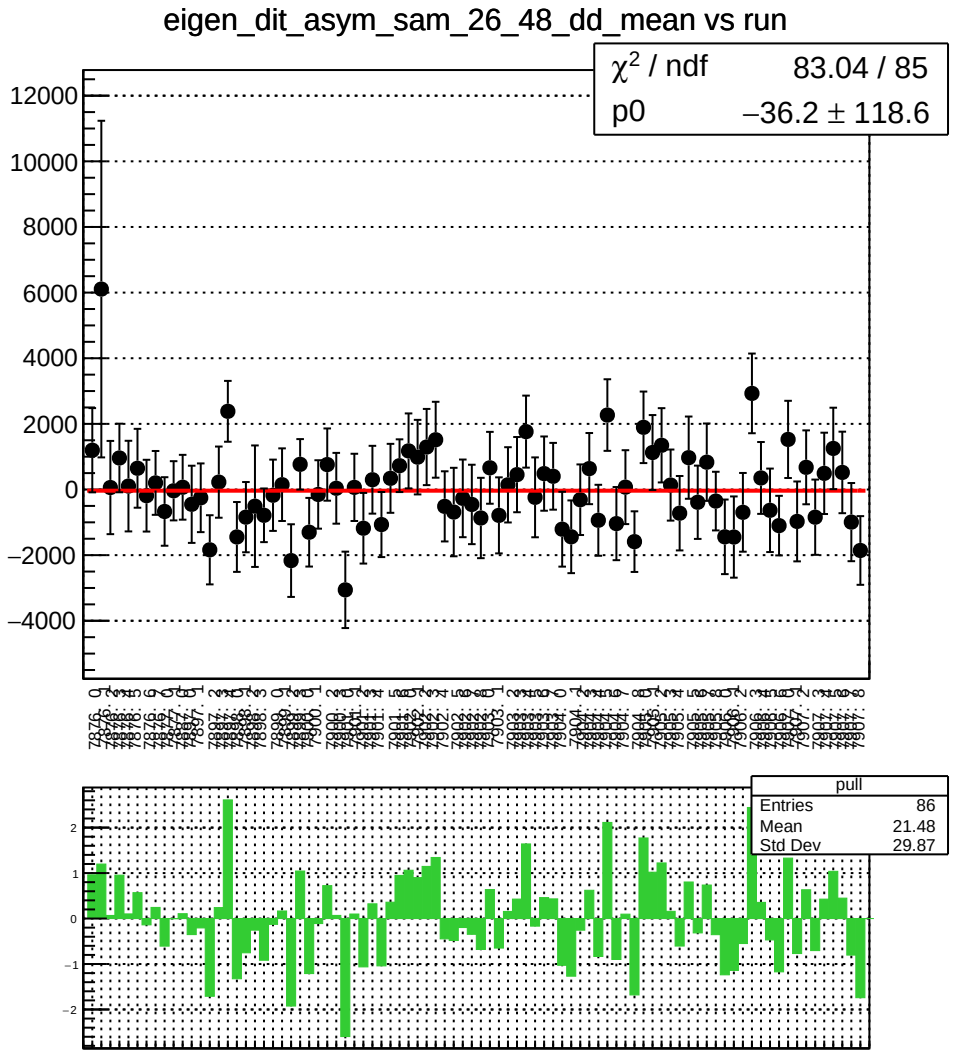

pull1D
Entries 86
Mean 0.01244
Std Dev 0.9825

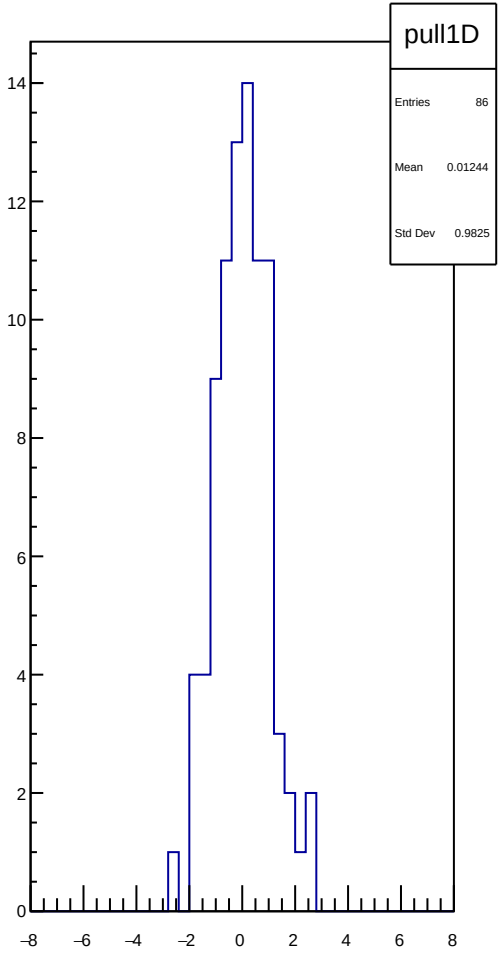

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.263e+04 / 85
p0 108.2 ± 0.08384
500
450
400
350
300
250
200
150
100

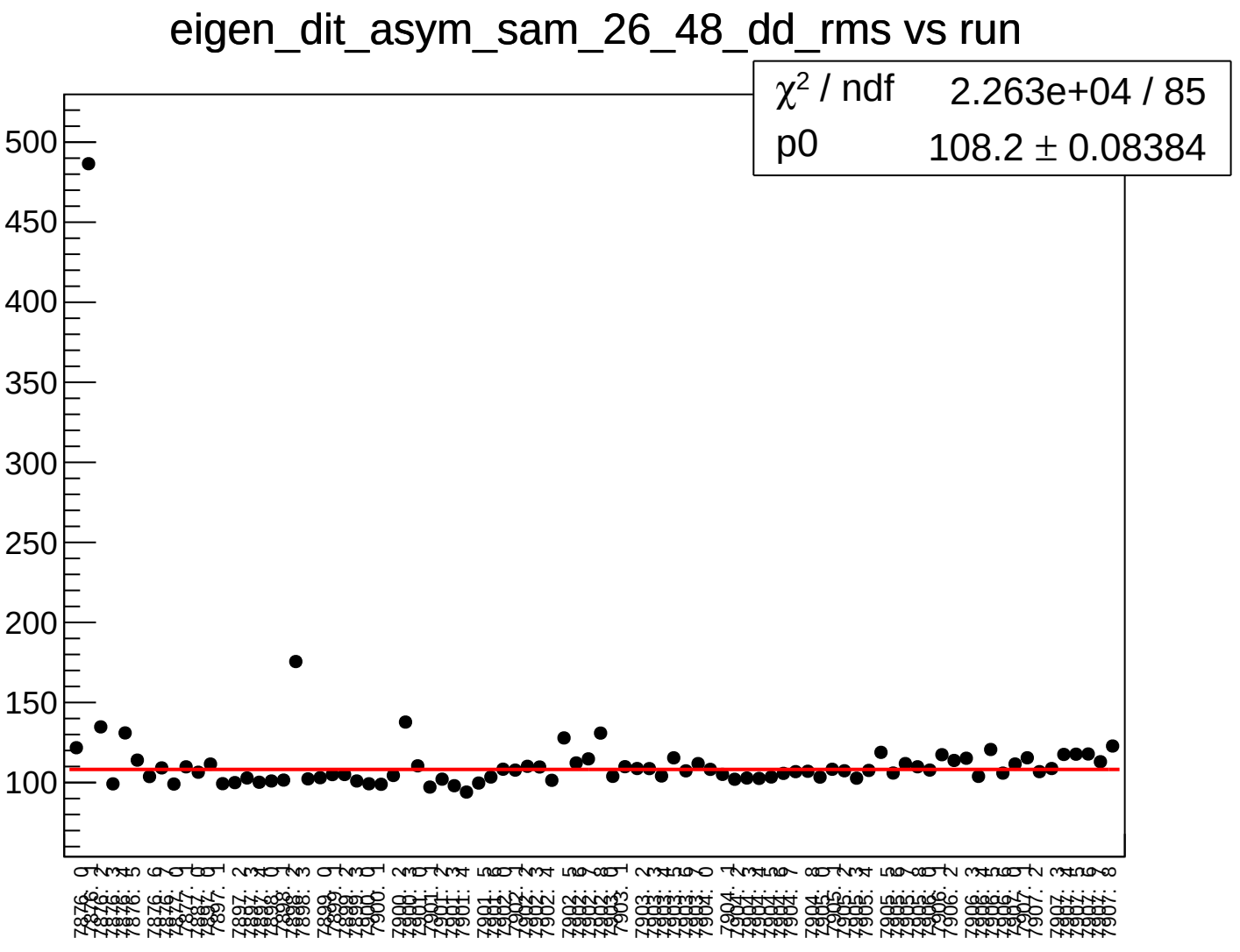

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 96.14 / 85
p0 1109 ± 634
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 61.85
Std Dev 103.8
2
1
0
−1
−2
−3

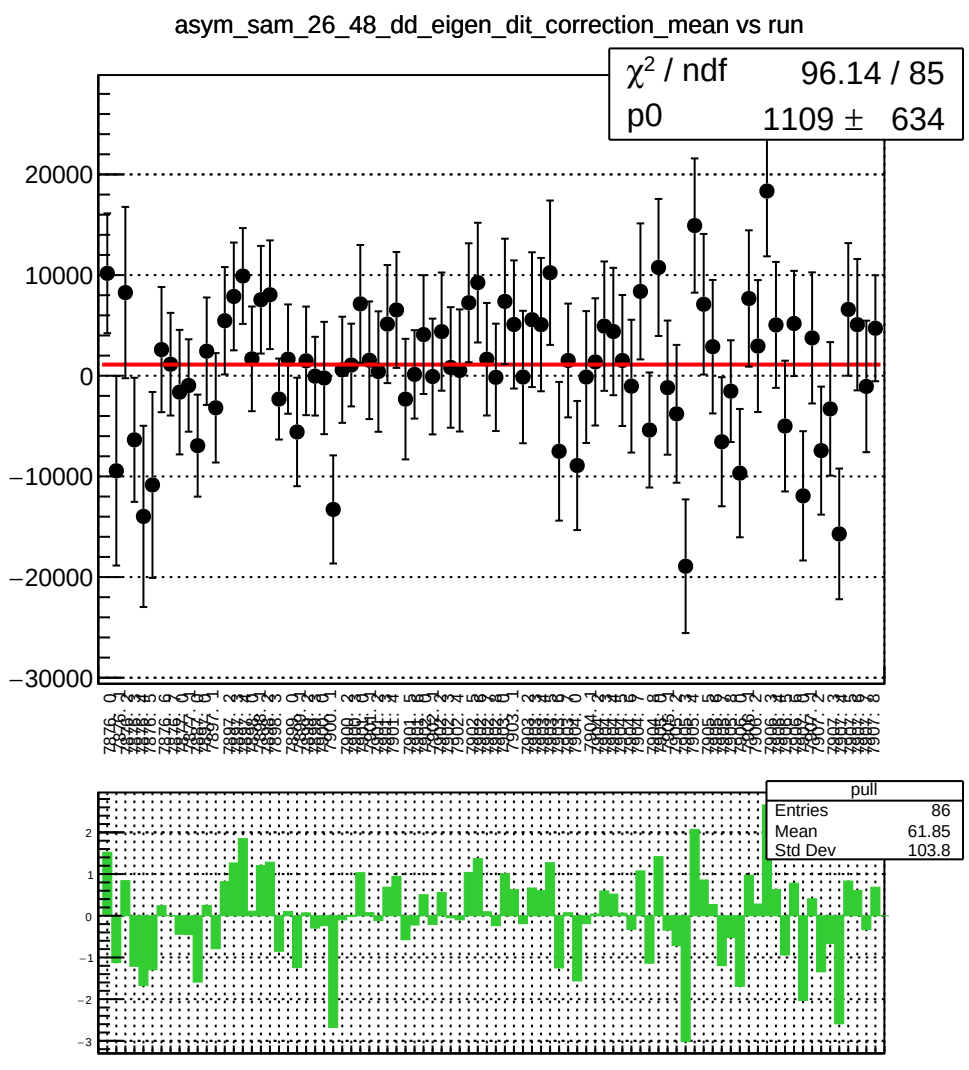

pull1D
Entries 86
Mean −0.007688
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

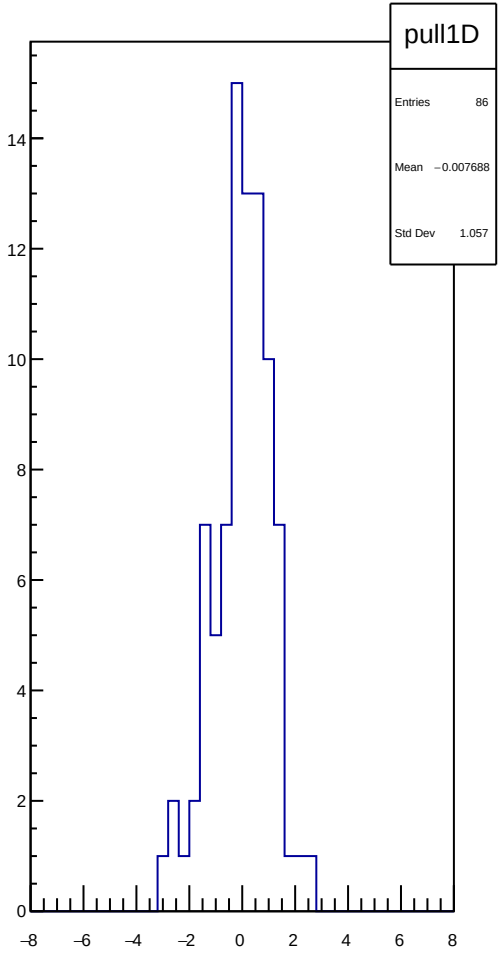

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.932e+04 / 85
p0 579.1 ± 0.4483
900
850
800
750
700
650
600
550
500
450

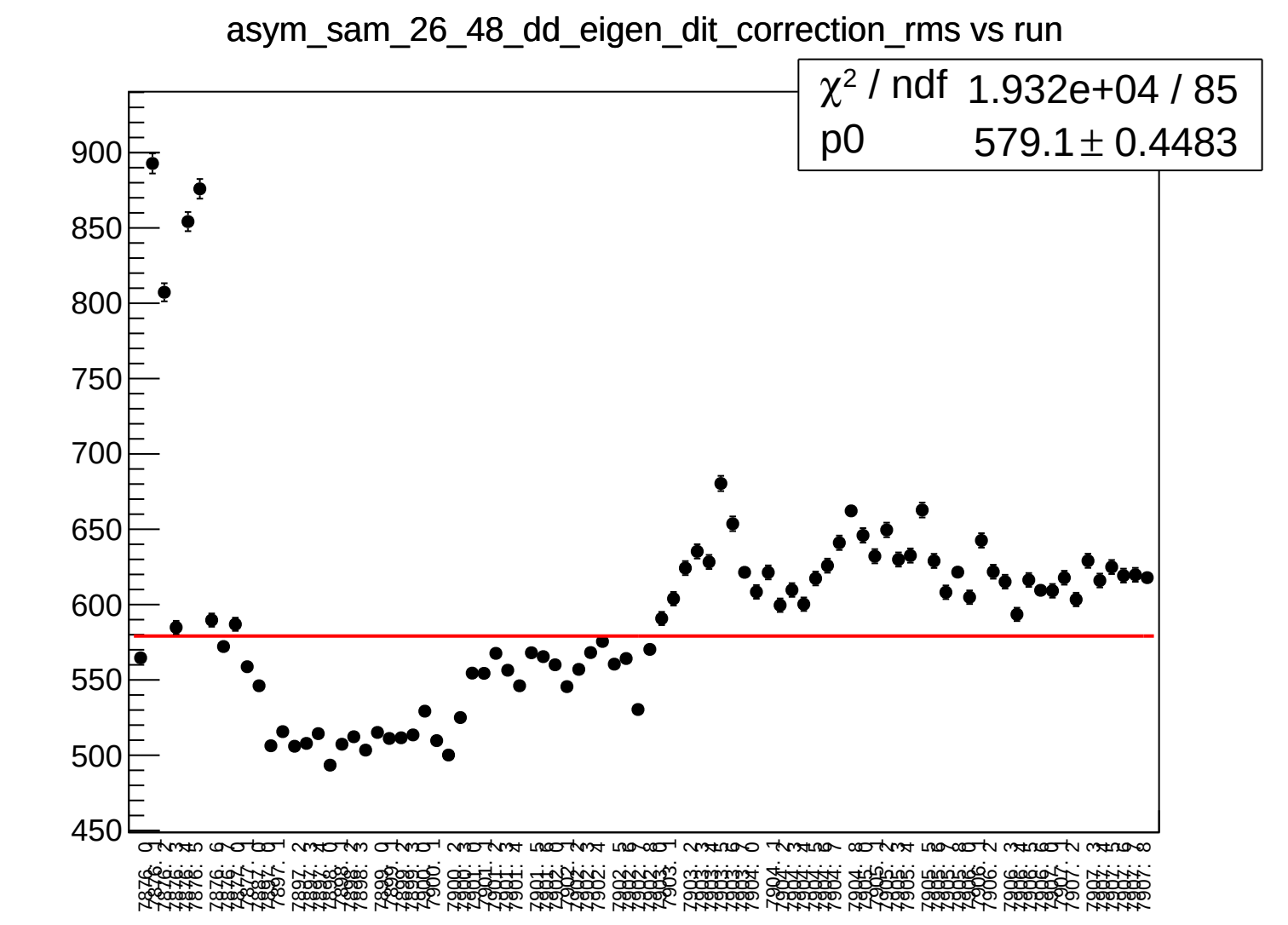

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.04 / 85
p0 −36.2 ± 118.6
pull
Entries 86
Mean 21.48
Std Dev 29.87

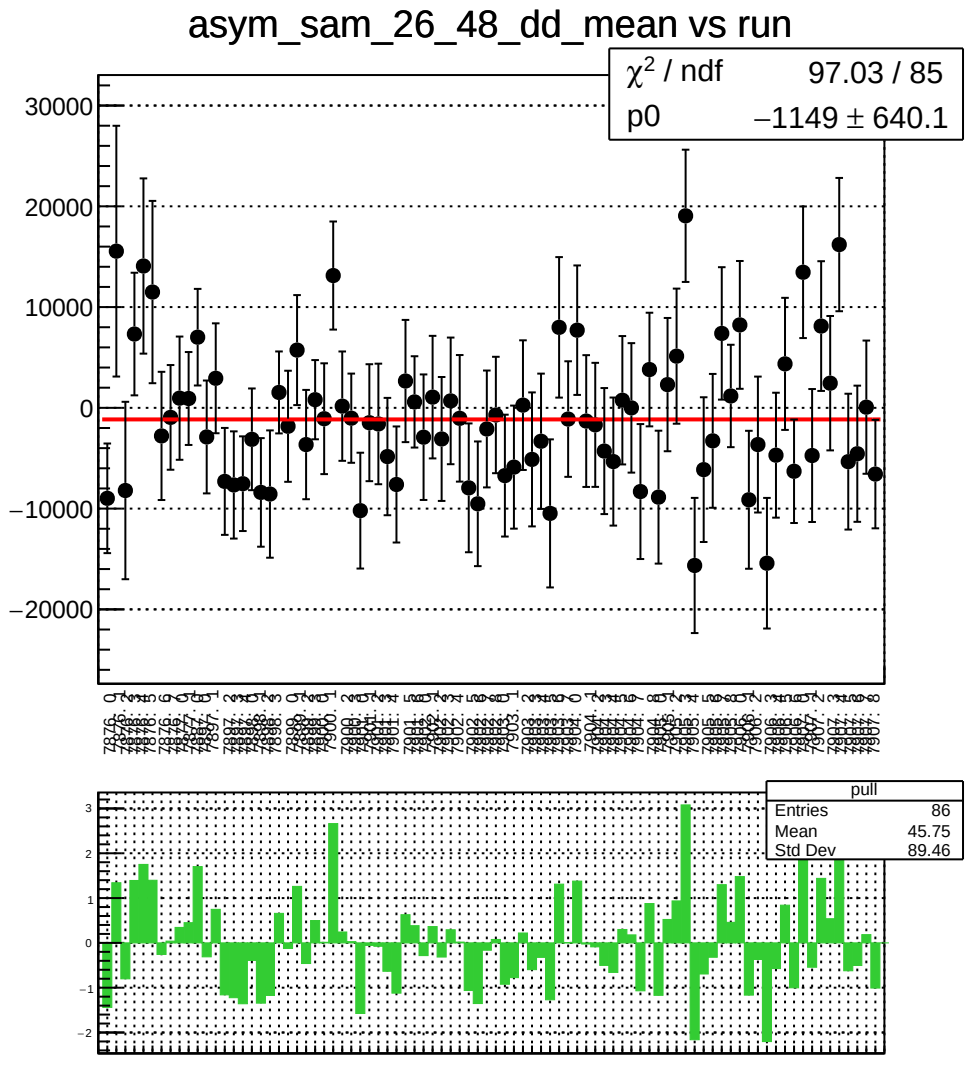

pull1D
Entries 86
Mean 0.01244
Std Dev 0.9825

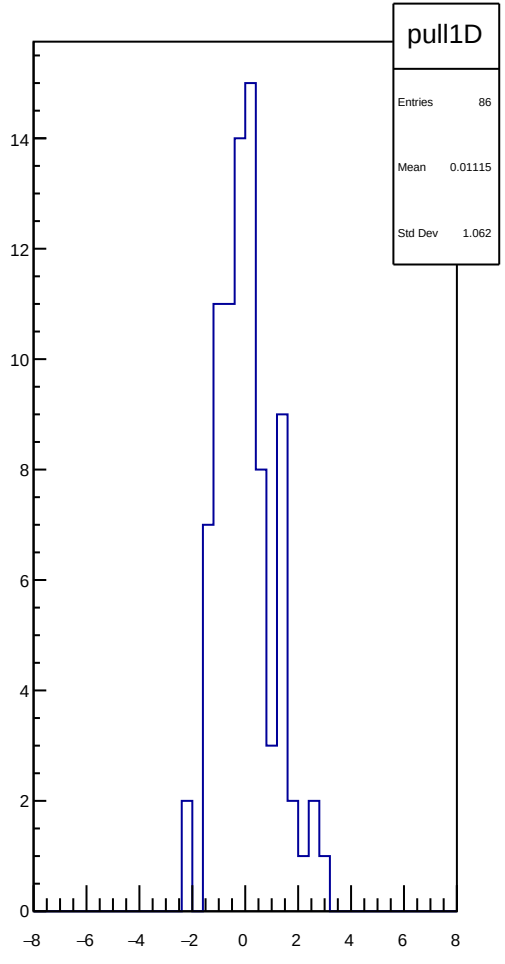

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2.263e+04 / 85
p0 108.2 ± 0.08384
500
450
400
350
300
250
200
150
100

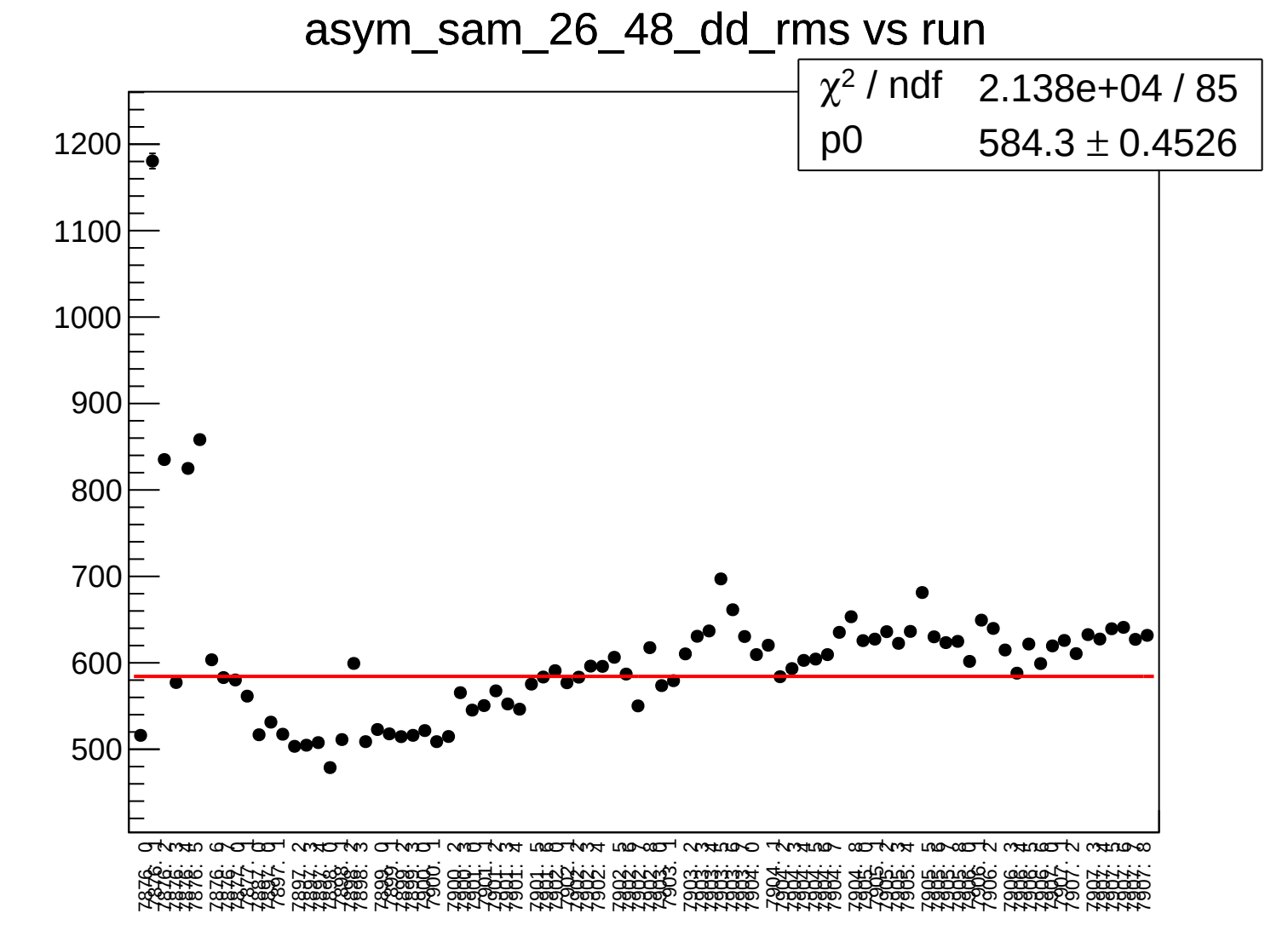

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.14 / 85
p0 1109 ± 634
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 61.85
Std Dev 103.8
2
1
0
−1
−2
−3

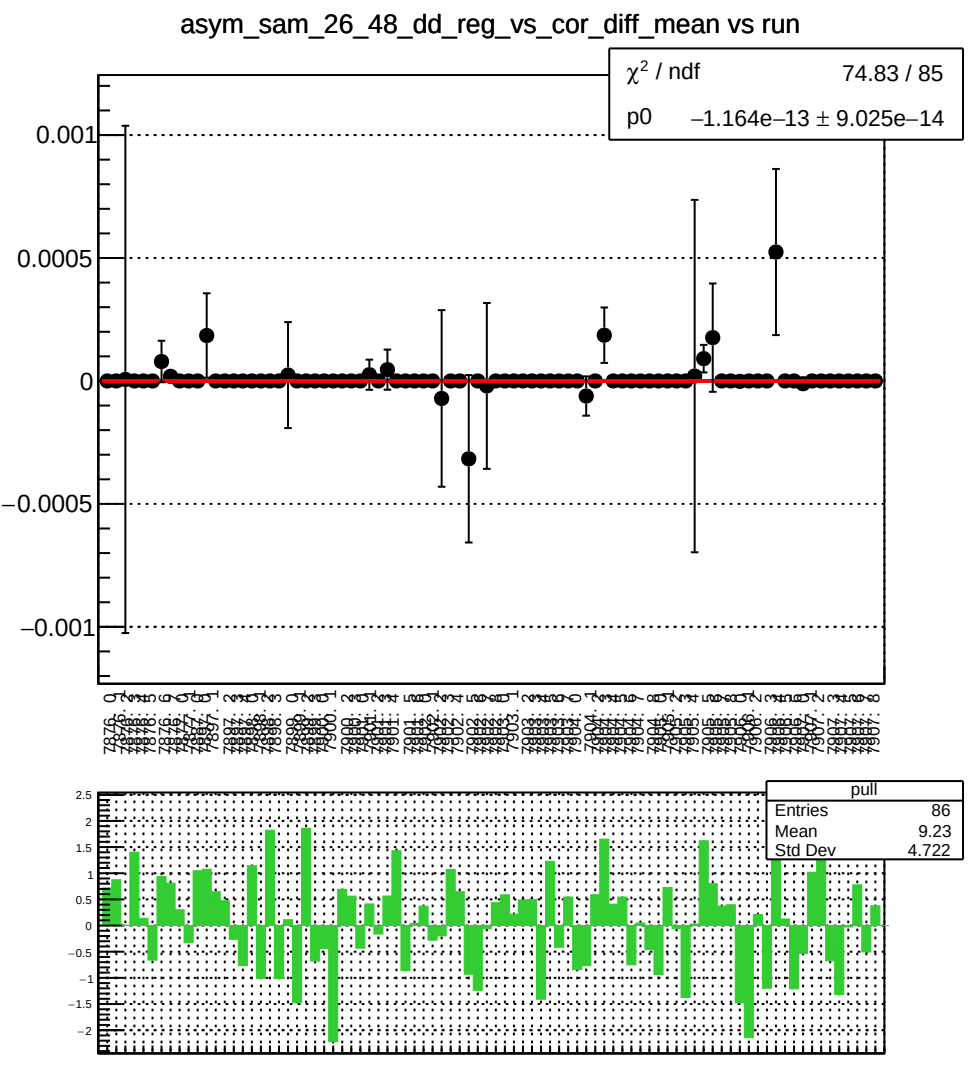

pull1D
Entries 86
Mean −0.007688
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

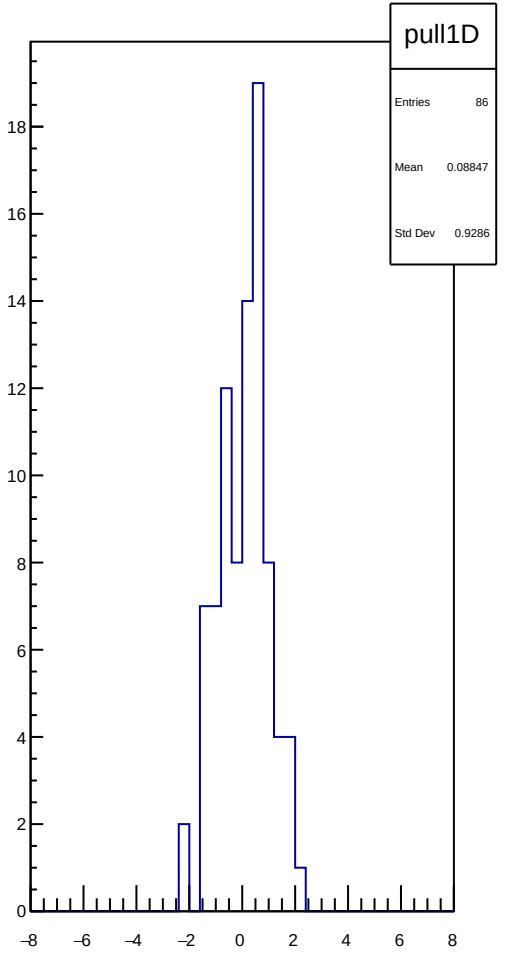

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.932e+04 / 85
p0 579.1 ± 0.4483
900
850
800
750
700
650
600
550
500
450

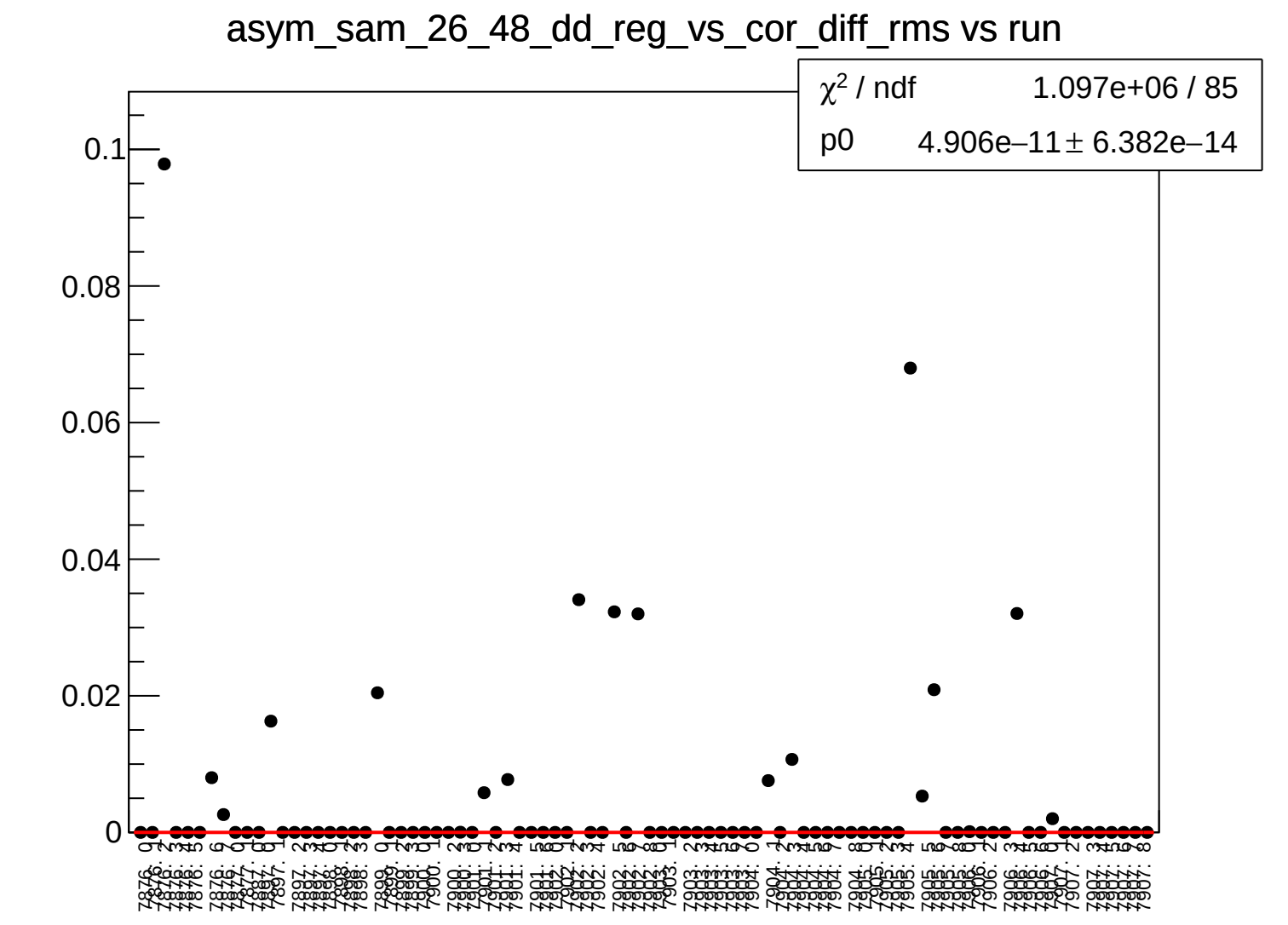

asym_sam_26_48_dd_mean vs run
χ² / ndf 97.03 / 85
p0 −1149 ± 640.1
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 45.75
Std Dev 89.46
3
2
1
0
−1
−2

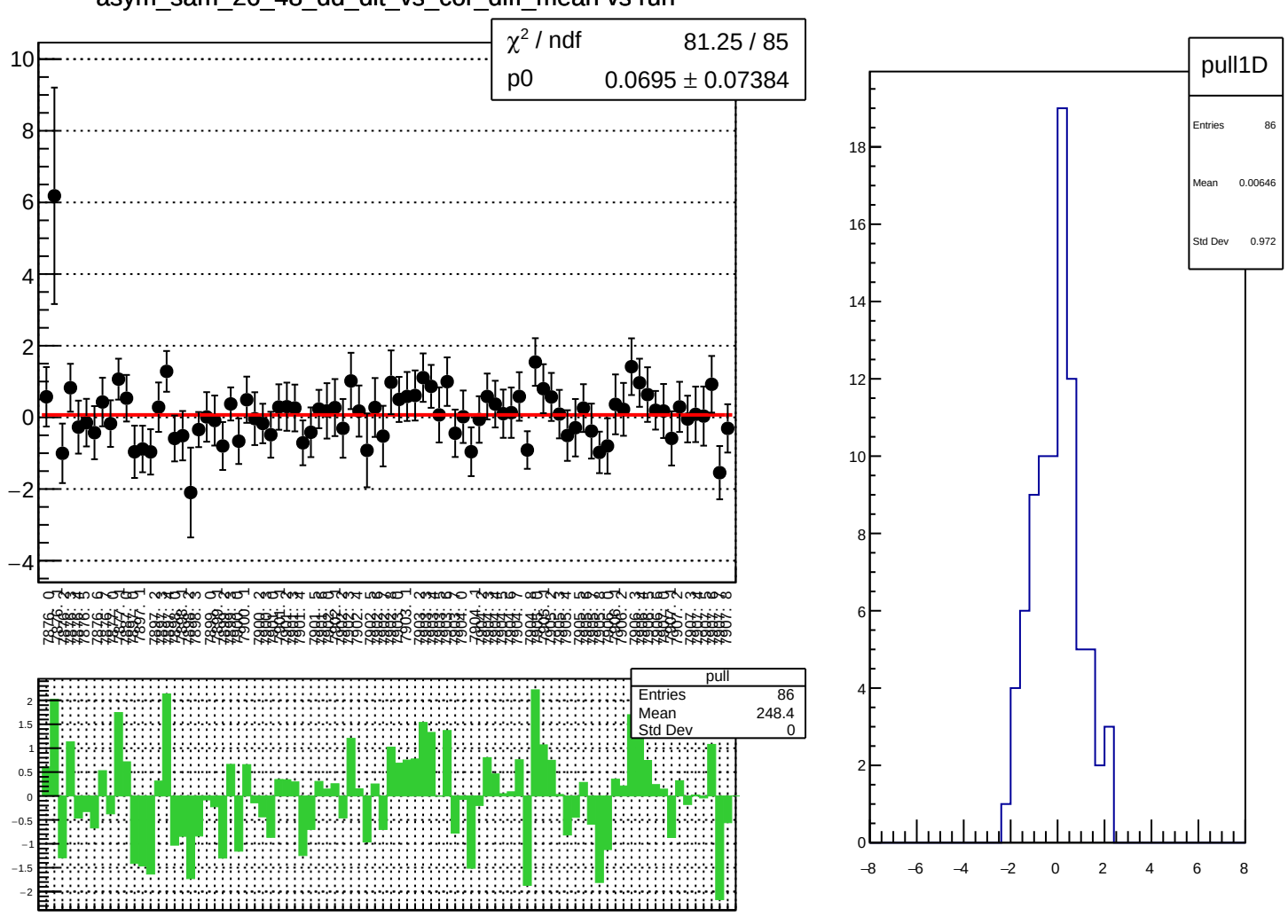

pull1D
Entries 86
Mean 0.01115
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

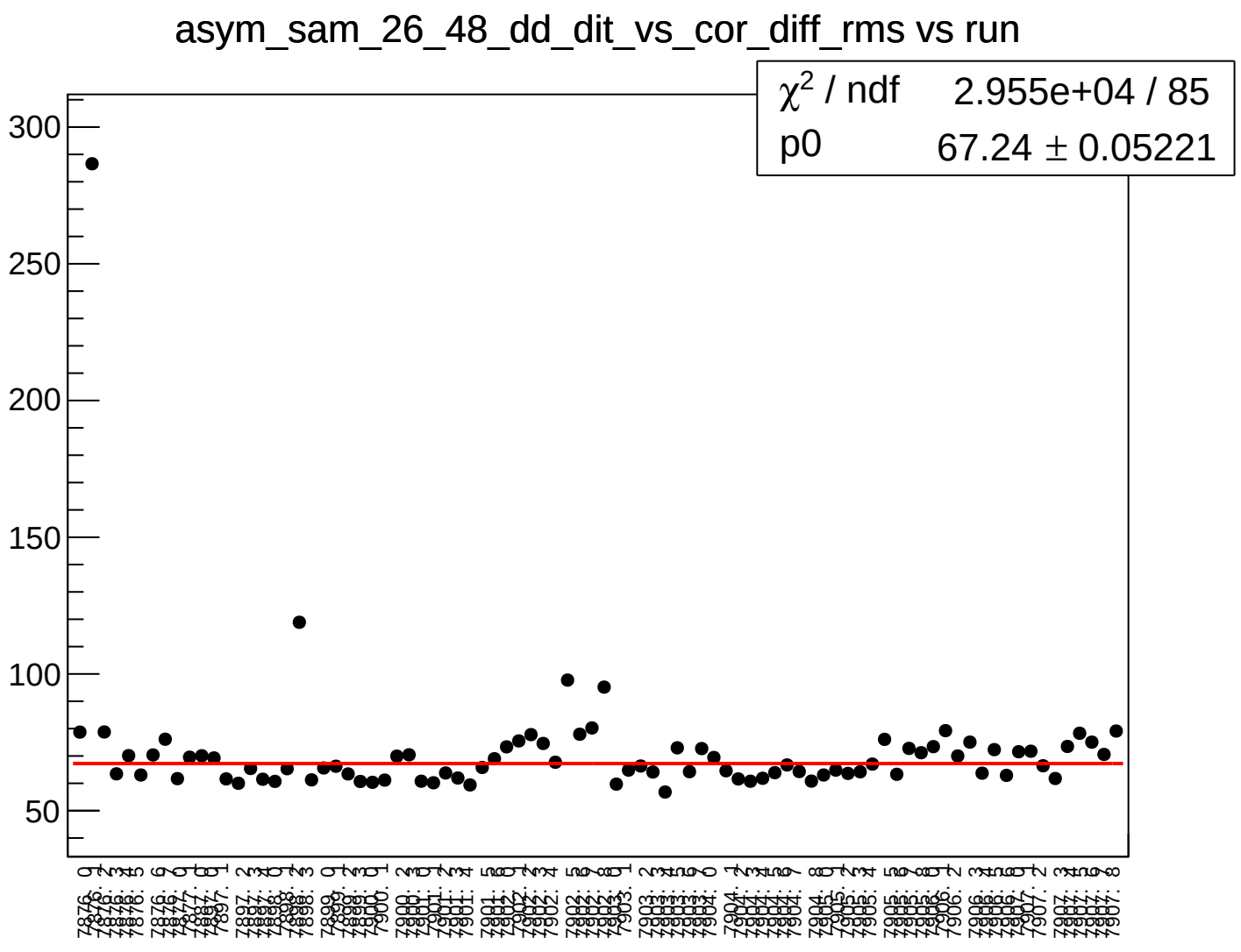

asym_sam_26_48_dd_rms vs run
χ² / ndf 2.138e+04 / 85
p0 584.3 ± 0.4526
1200
1100
1000
900
800
700
600
500

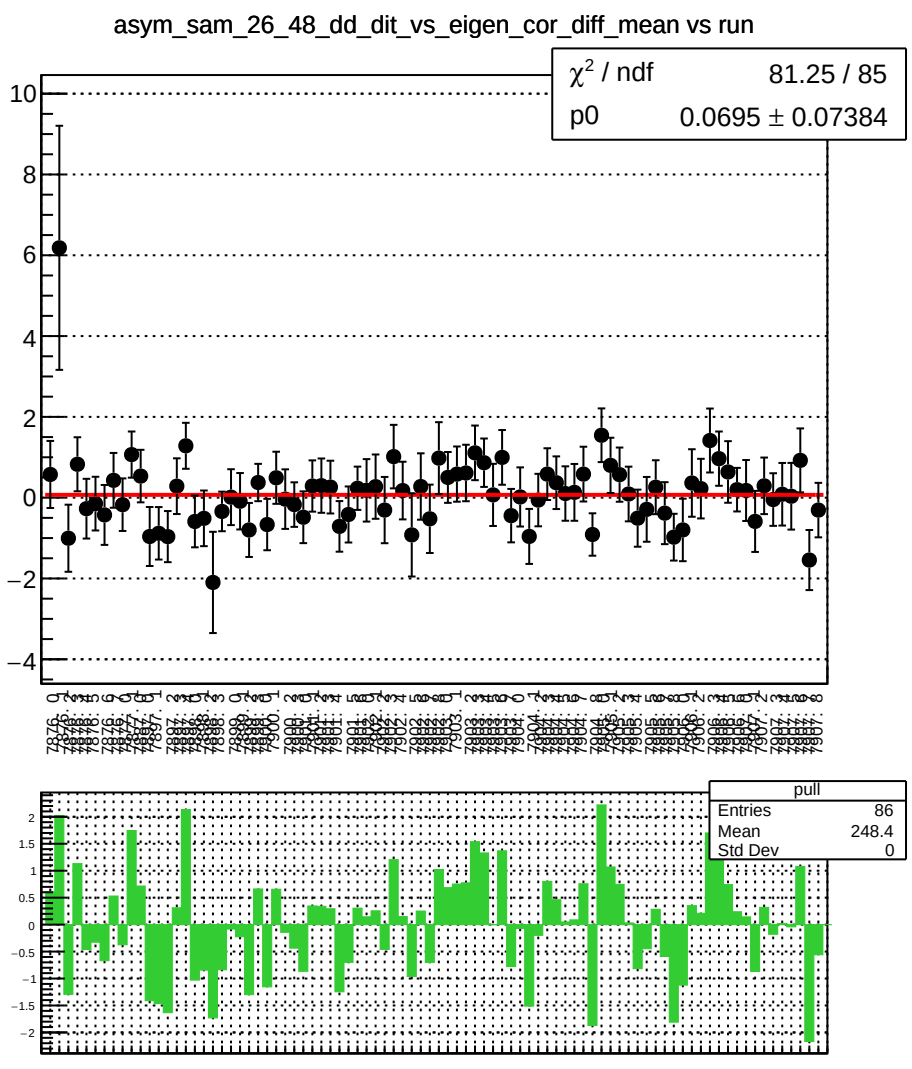

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.83 / 85
p0 −1.164e−13 ± 9.025e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 9.23
Std Dev 4.722
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

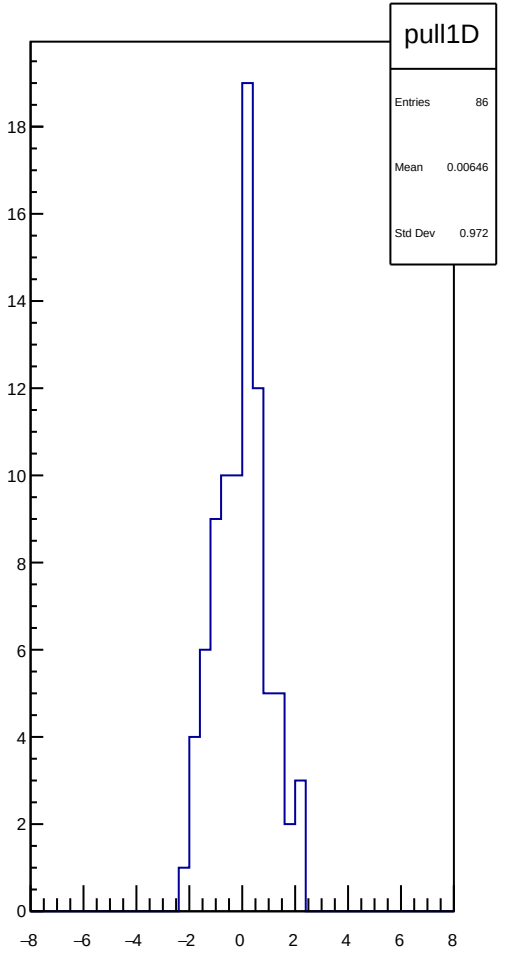

pull1D
Entries 86
Mean 0.08847
Std Dev 0.9286
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

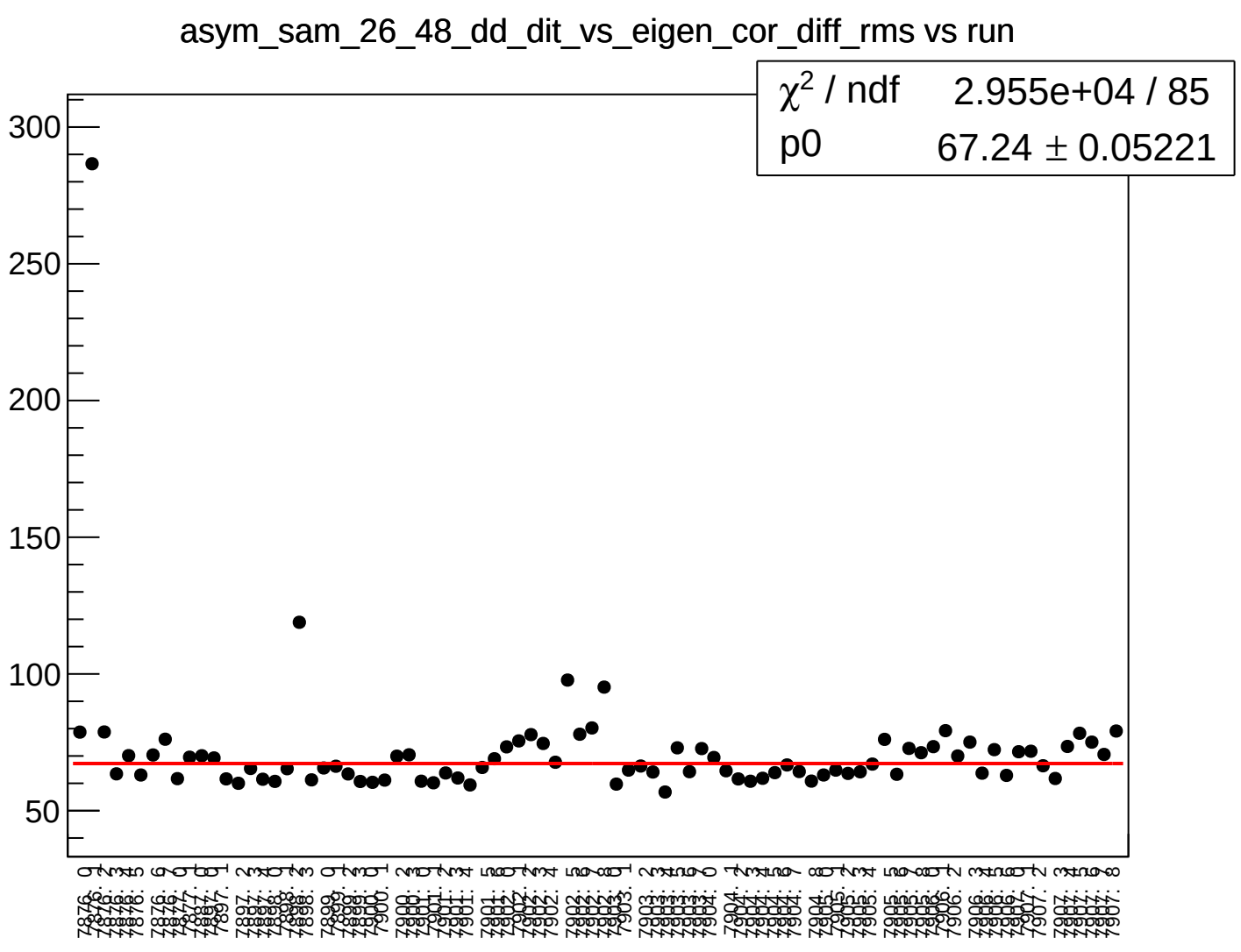

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 85
p0 4.906e−11 ± 6.382e−14
0.1
0.08
0.06
0.04
0.02
0

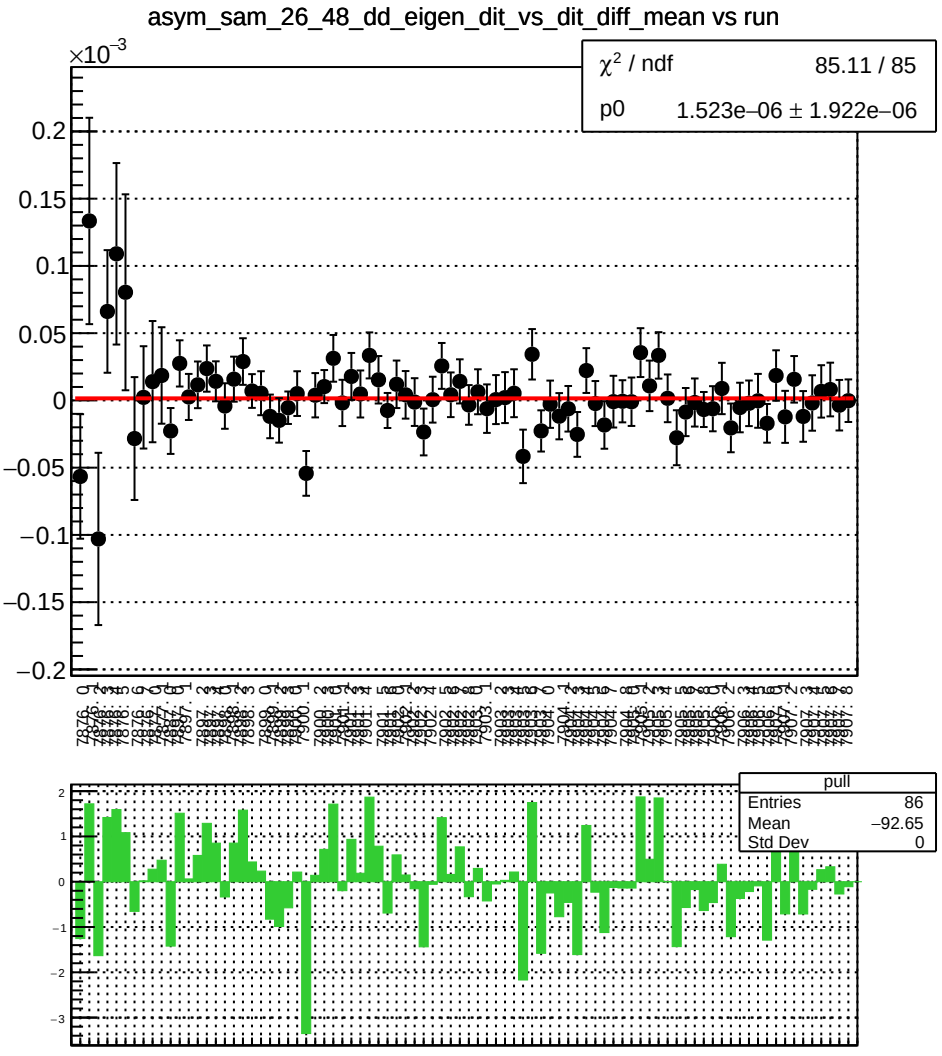

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.25 / 85
p0 0.0695 ± 0.07384
pull
Entries 86
Mean 248.4
Std Dev 0
pull1D
Entries 86
Mean 0.00646
Std Dev 0.972

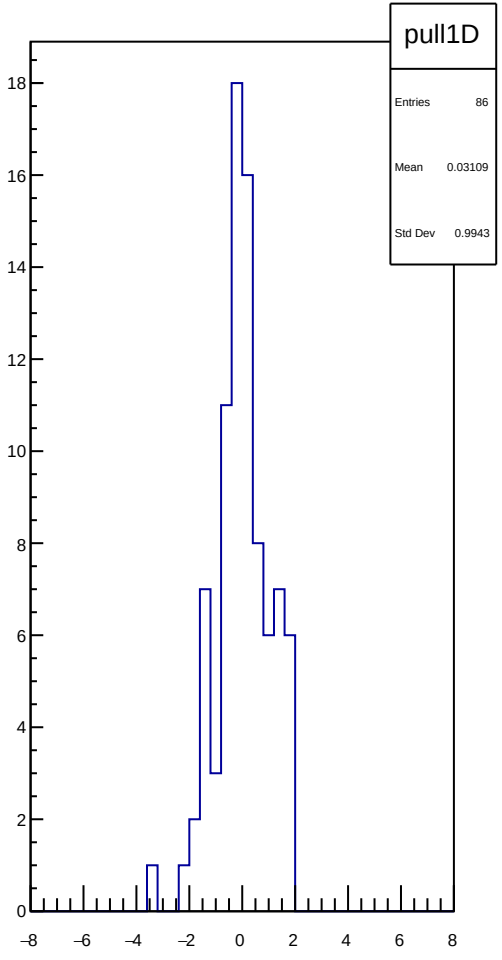

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.955e+04 / 85
p0 67.24 ± 0.05221
300
250
200
150
100
50

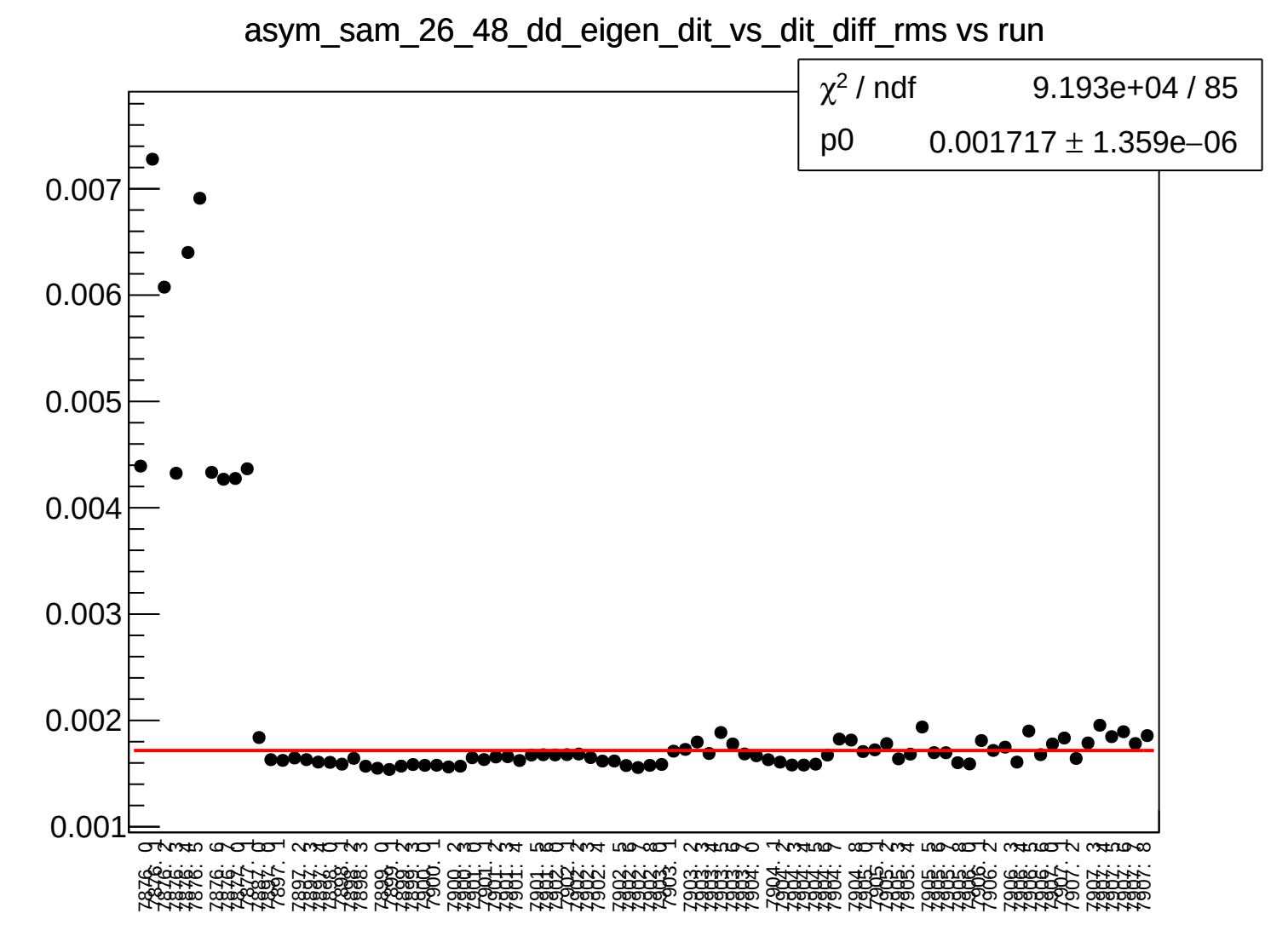

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.25 / 85
p0 0.0695 ± 0.07384
pull
Entries 86
Mean 248.4
Std Dev 0

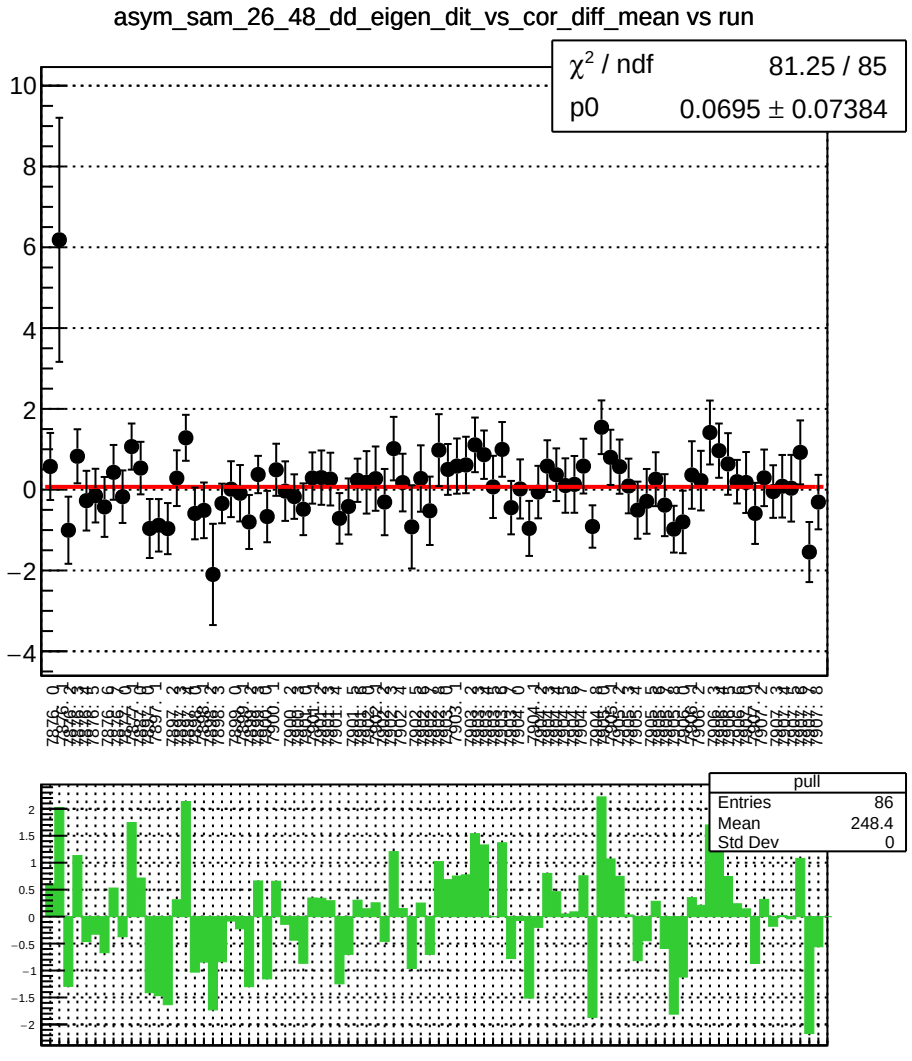

pull1D
Entries 86
Mean 0.00646
Std Dev 0.972

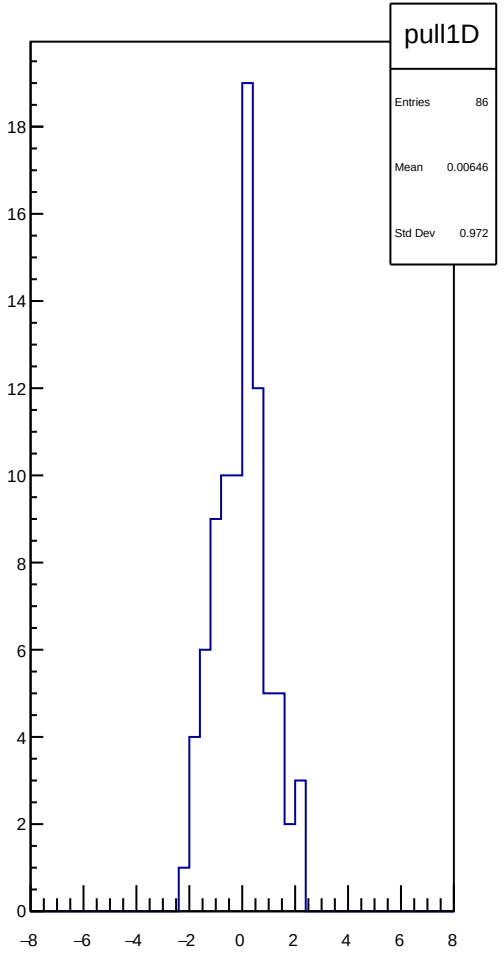

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.955e+04 / 85
p0 67.24 ± 0.05221
300
250
200
150
100
50

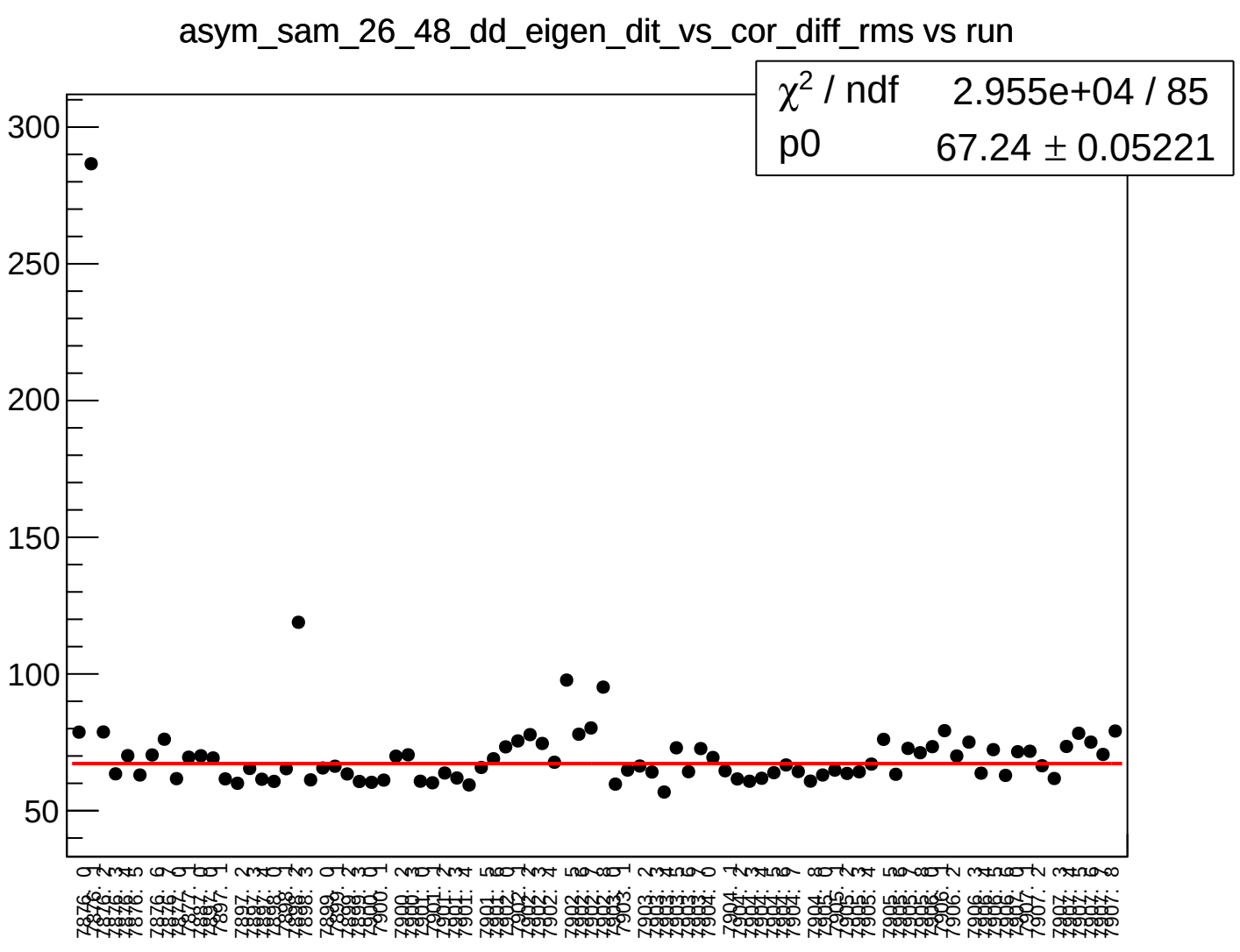

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.11 / 85
p0 1.523e−06 ± 1.922e−06
pull
Entries 86
Mean −92.65
Std Dev 0

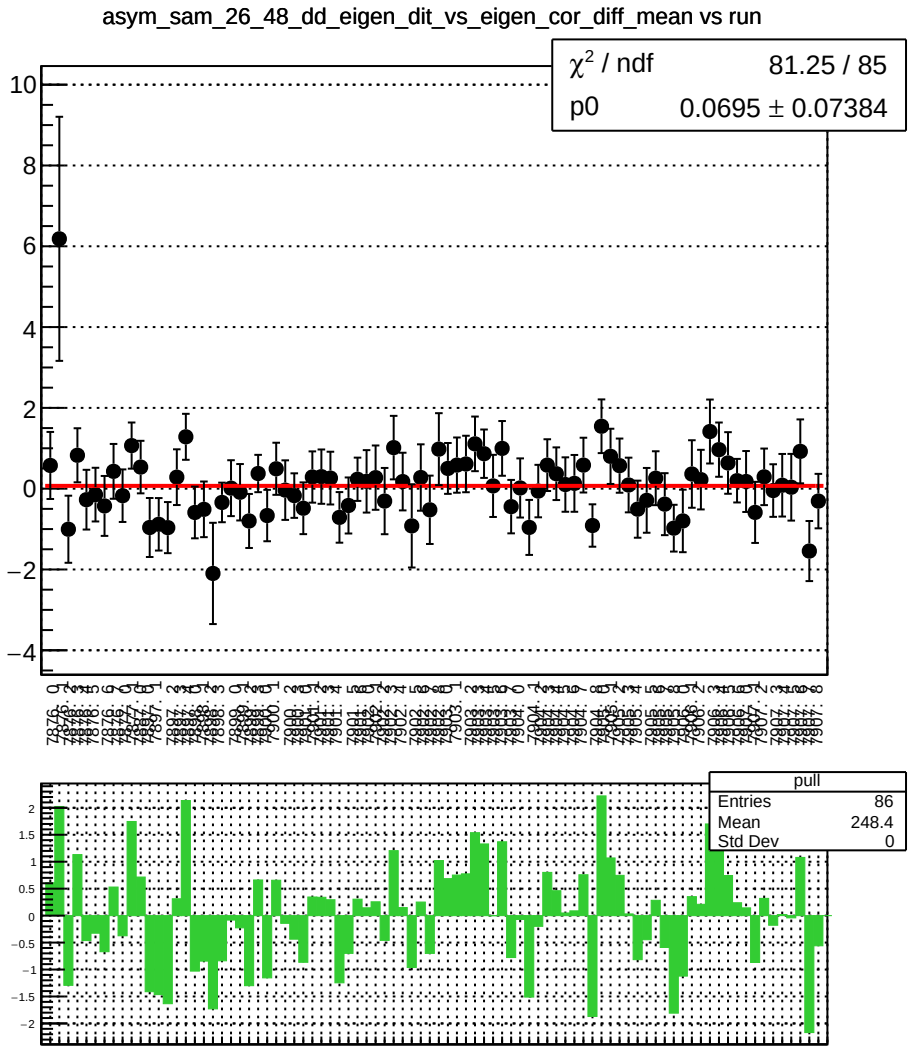

pull1D
Entries 86
Mean 0.03109
Std Dev 0.9943

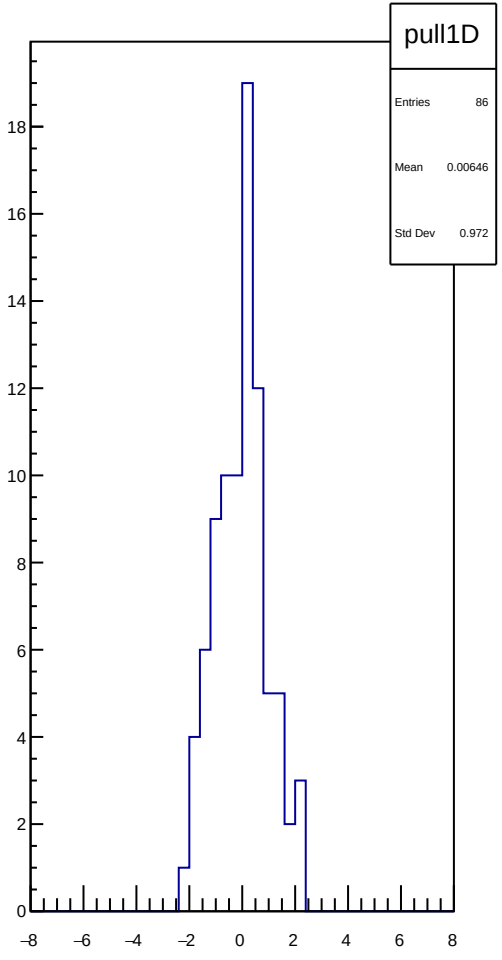

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.193e+04 / 85
p0 0.001717 ± 1.359e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

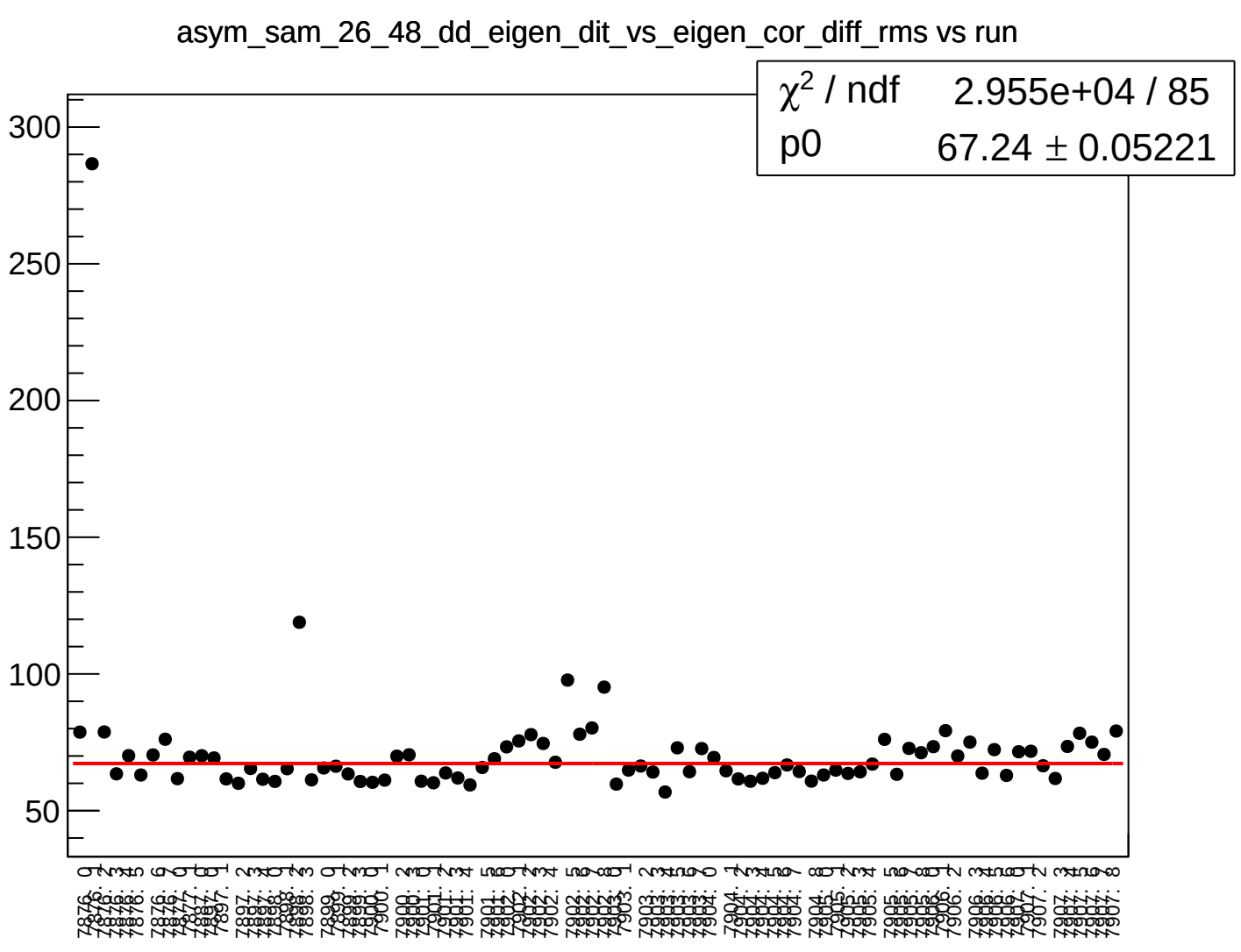

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.25 / 85
p0 0.0695 ± 0.07384
pull
Entries 86
Mean 248.4
Std Dev 0

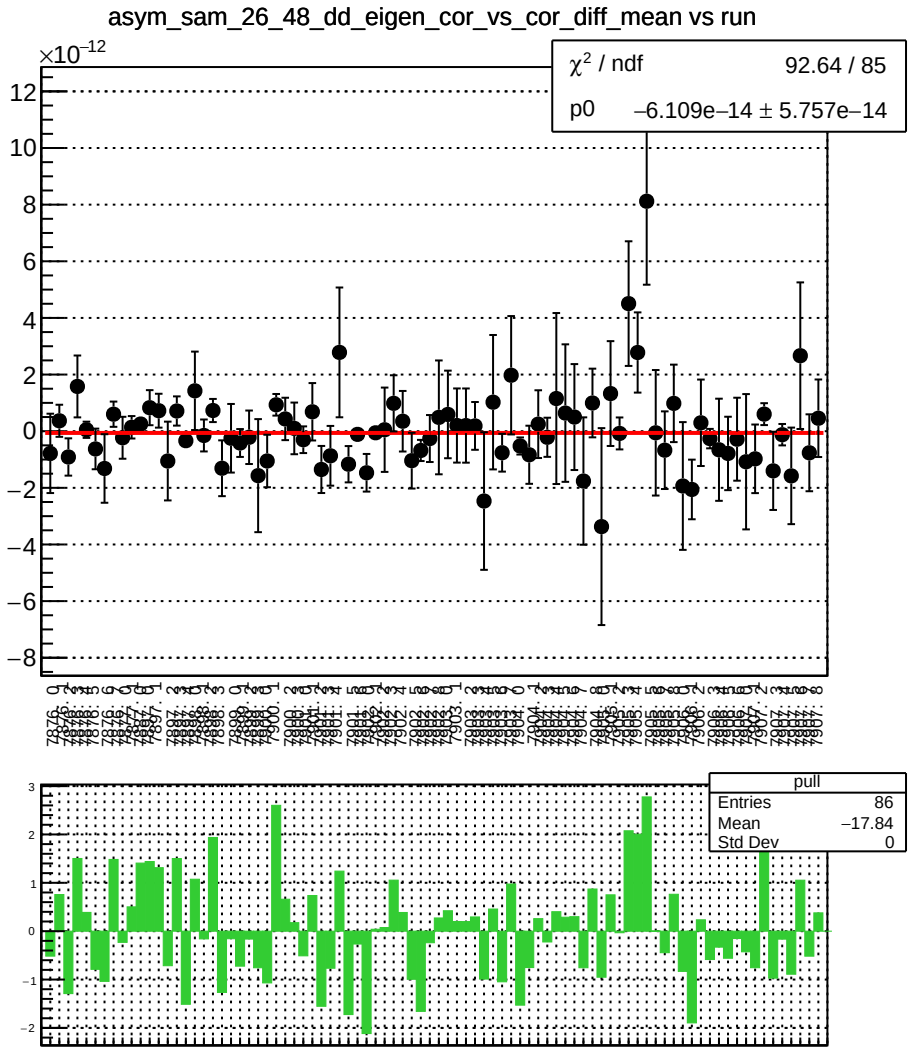

pull1D
Entries 86
Mean 0.00646
Std Dev 0.972

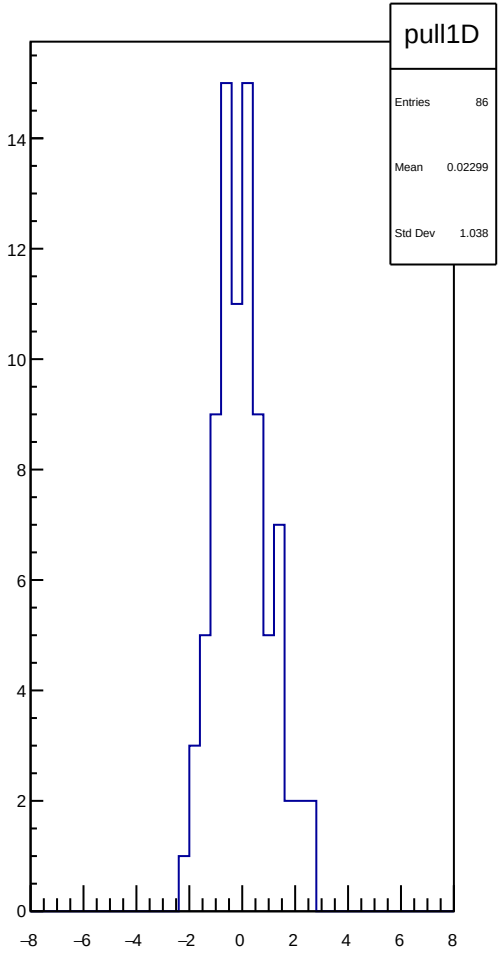

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.955e+04 / 85
p0 67.24 ± 0.05221
300
250
200
150
100
50

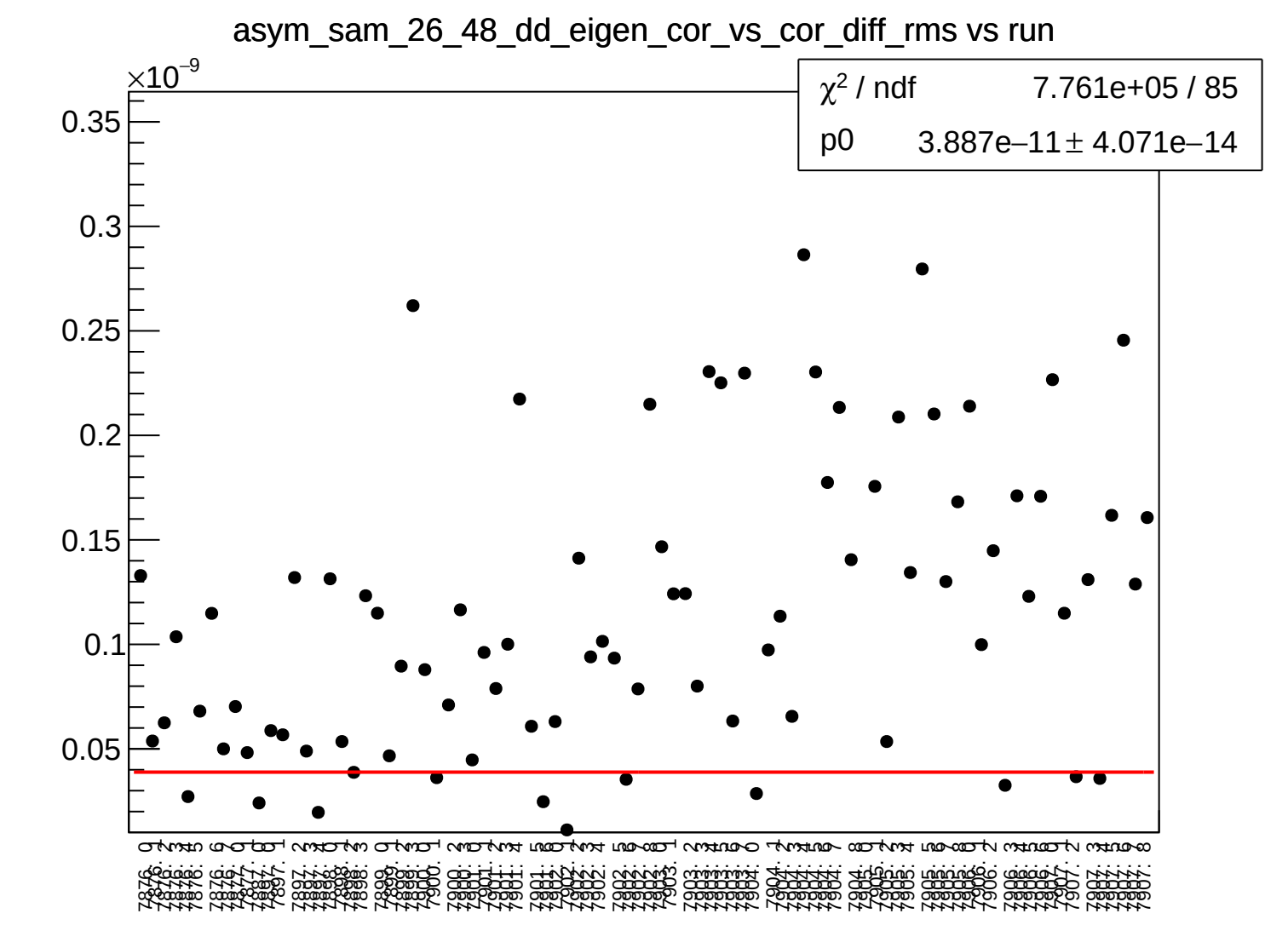

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.25 / 85
p0 0.0695 ± 0.07384
pull
Entries 86
Mean 248.4
Std Dev 0

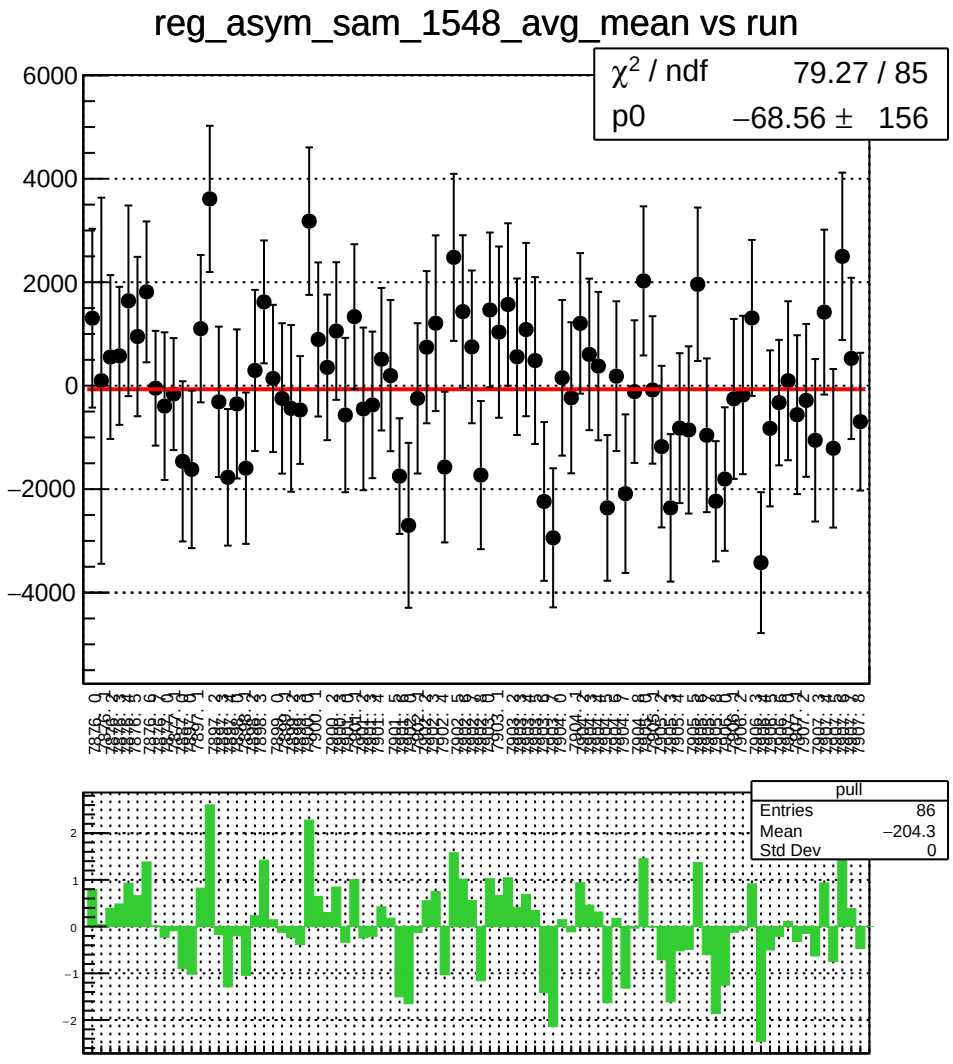

pull1D
Entries 86
Mean 0.00646
Std Dev 0.972

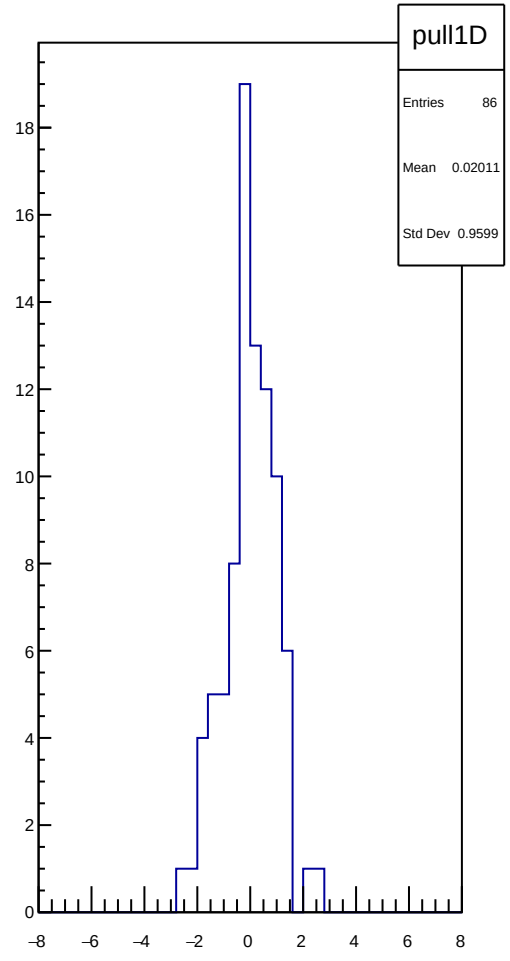

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.955e+04 / 85
p0 67.24 ± 0.05221
300
250
200
150
100
50

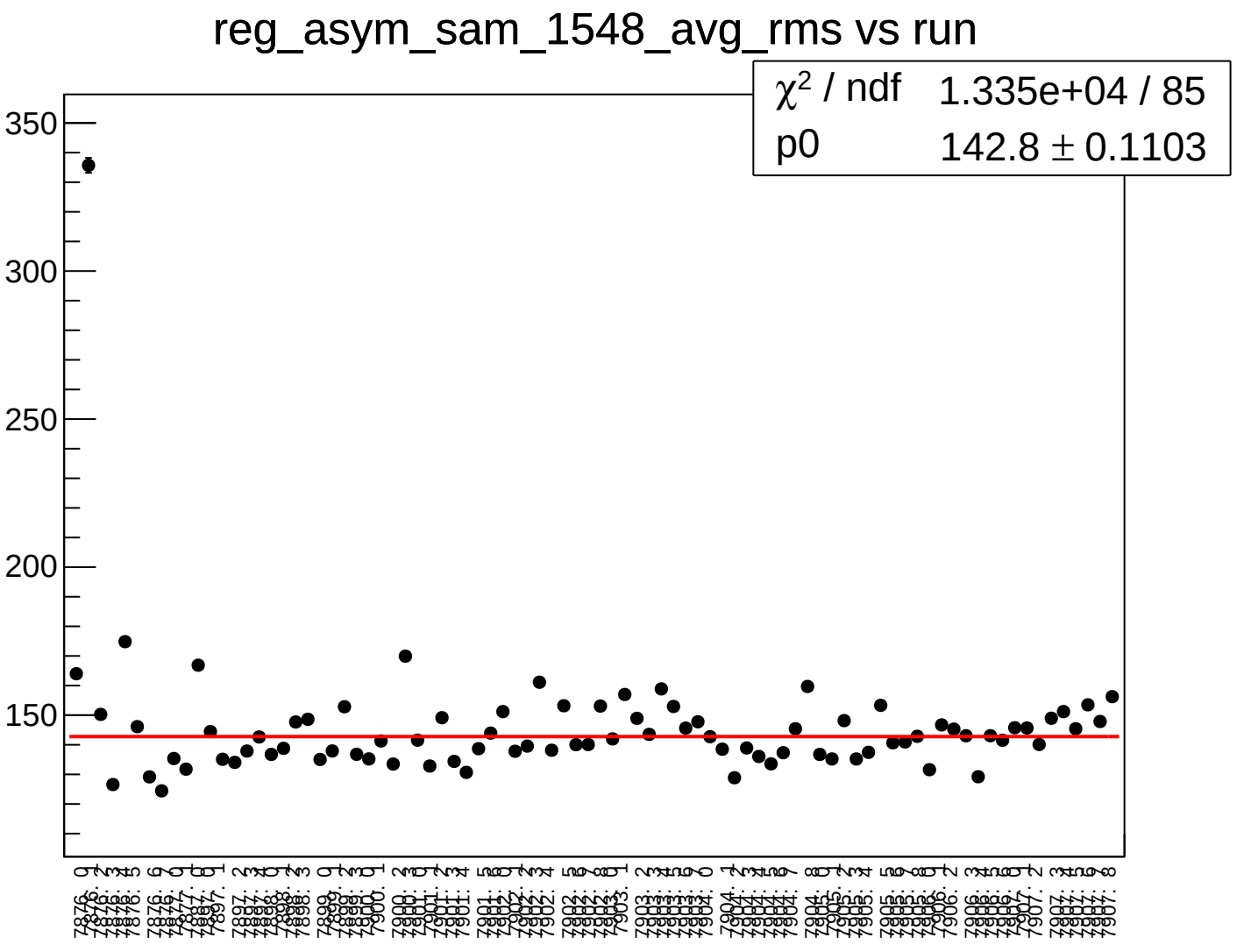

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.64 / 85
p0 −6.109e−14 ± 5.757e−14
pull
Entries 86
Mean −17.84
Std Dev 0

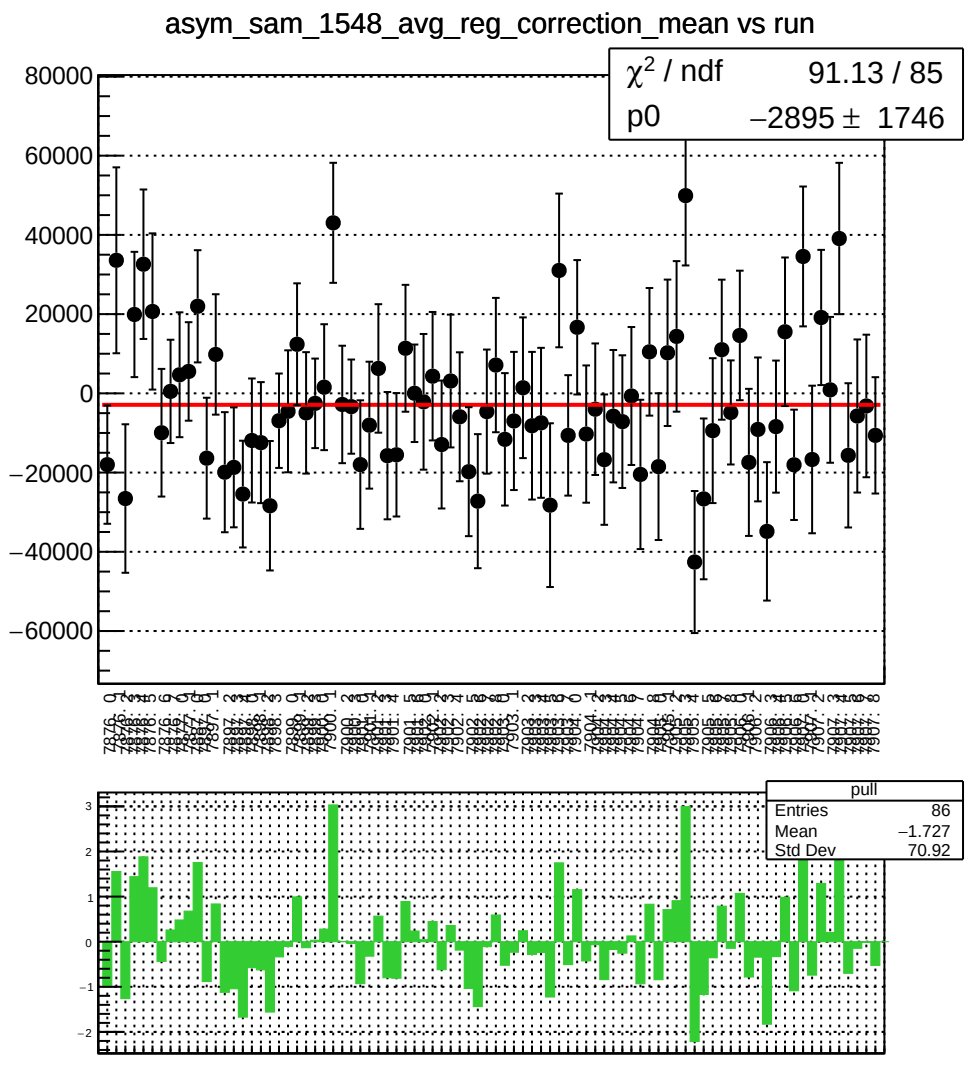

pull1D
Entries 86
Mean 0.02299
Std Dev 1.038

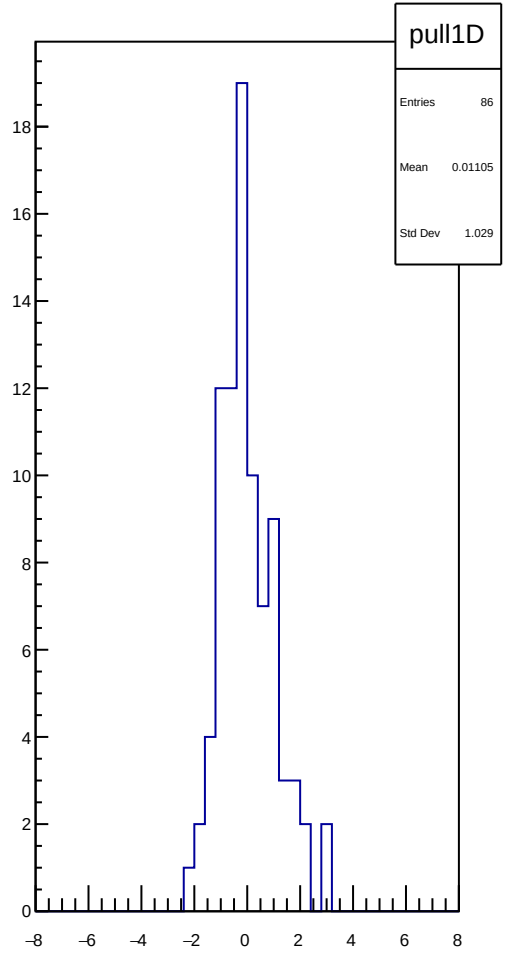

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.761e+05 / 85
p0 3.887e−11 ± 4.071e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

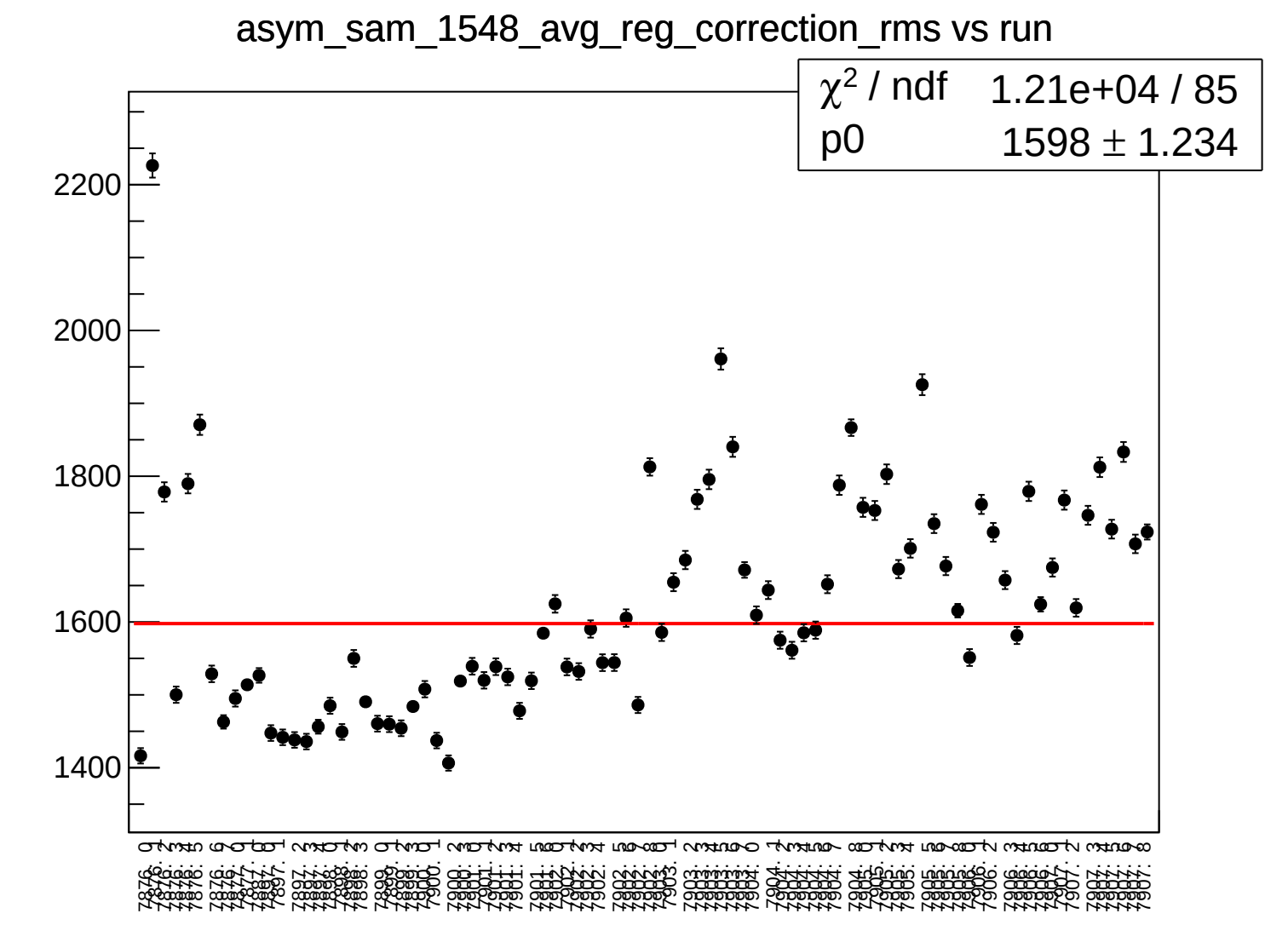

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 79.27 / 85
p0 −68.56 ± 156
pull
Entries 86
Mean −204.3
Std Dev 0

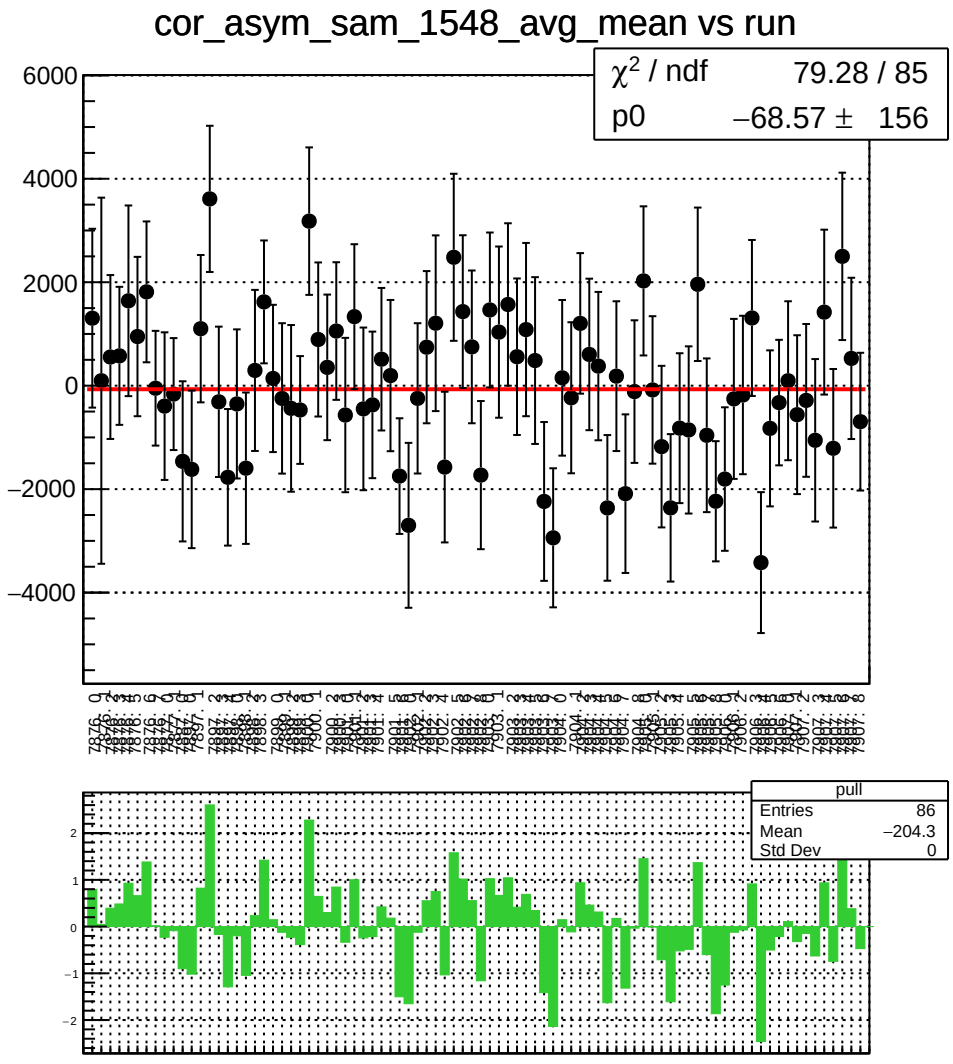

pull1D
Entries 86
Mean 0.02011
Std Dev 0.9599

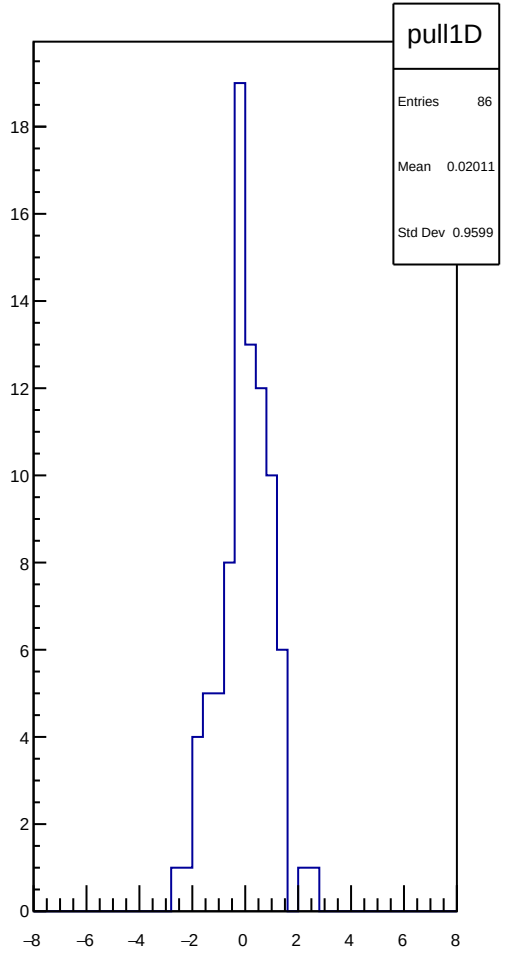

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1.335e+04 / 85
p0 142.8 ± 0.1103
350
300
250
200
150

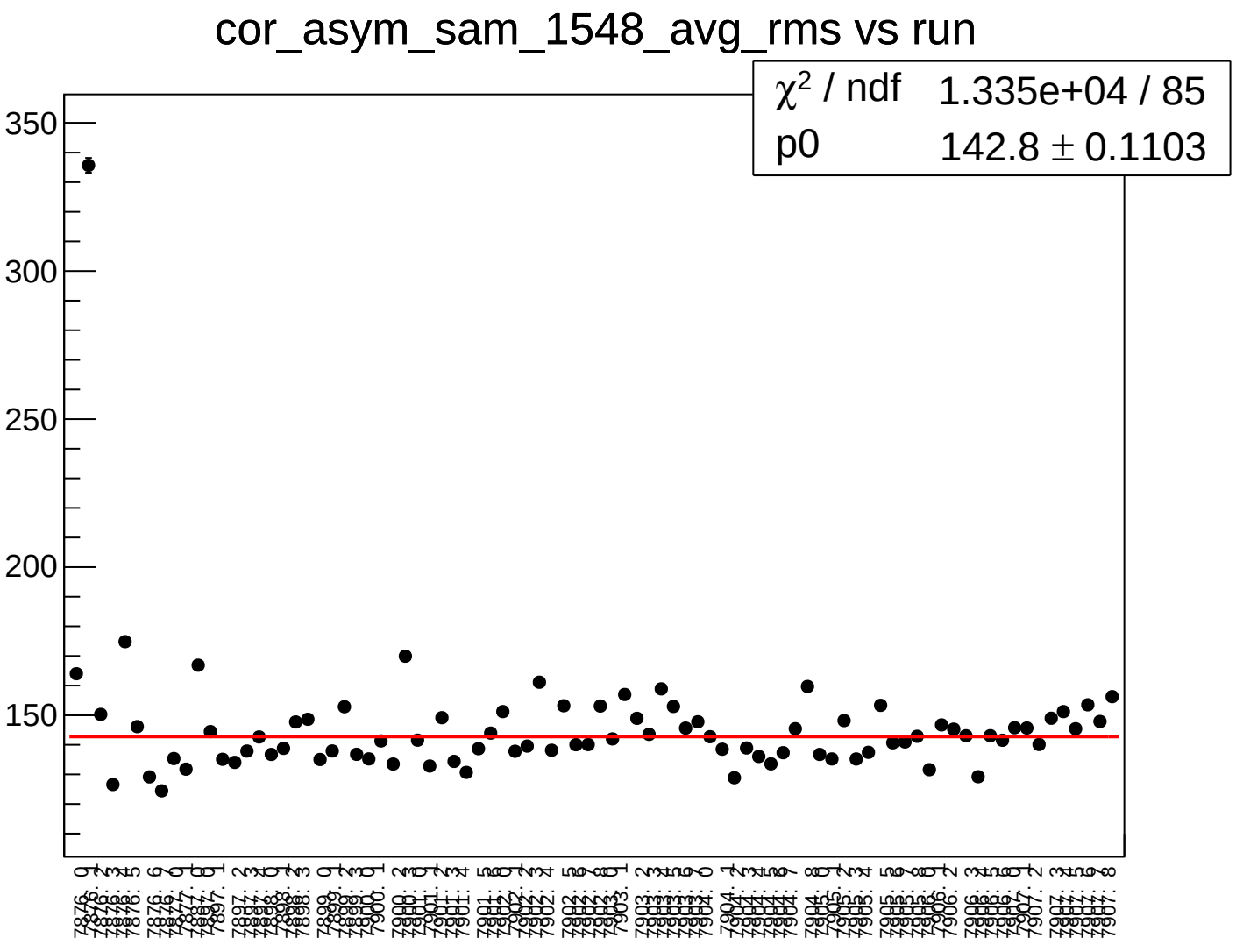

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 91.13 / 85
p0 −2895 ± 1746
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1.727
Std Dev 70.92
3
2
1
0
−1
−2

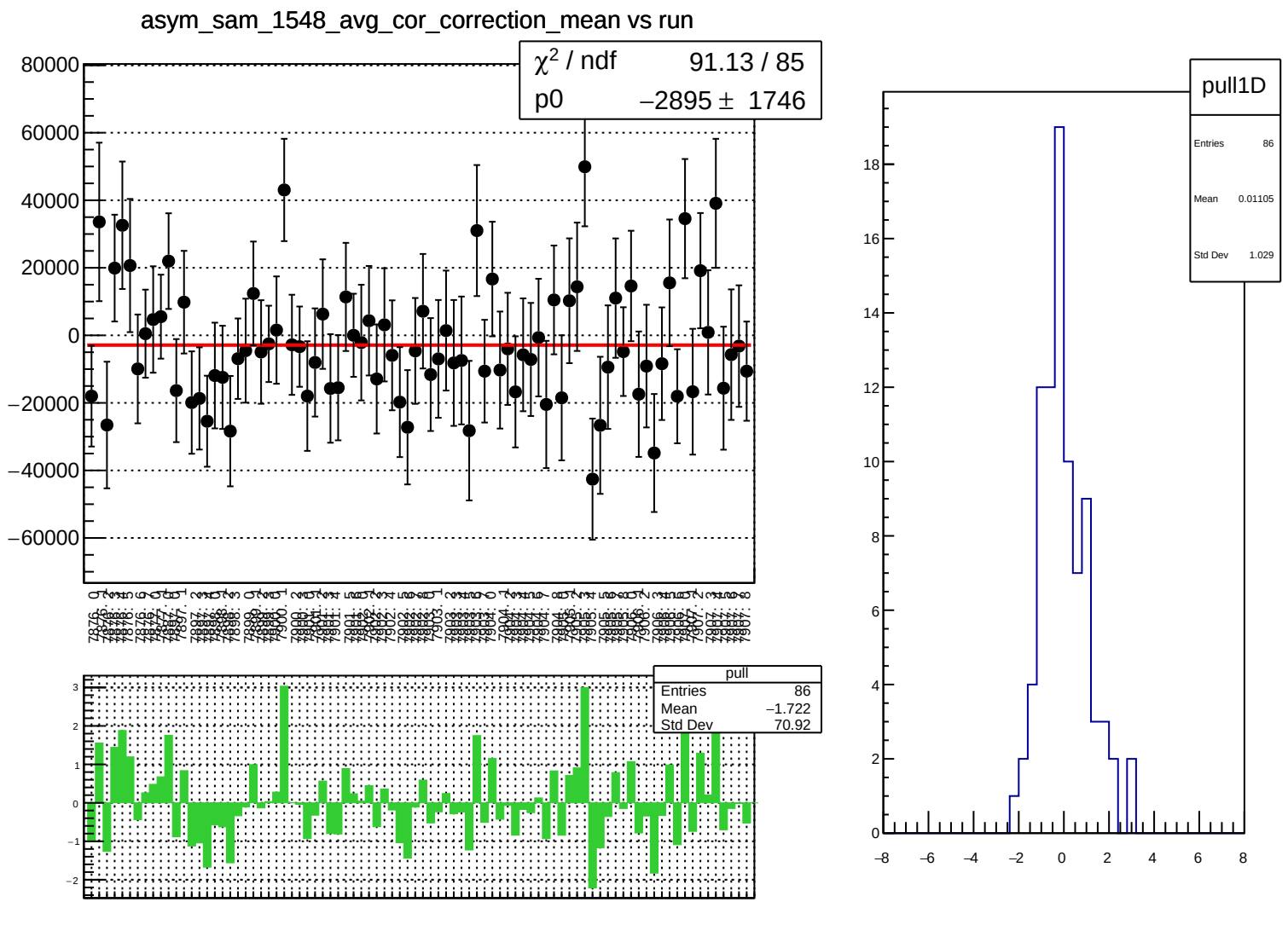

pull1D
Entries 86
Mean 0.01105
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

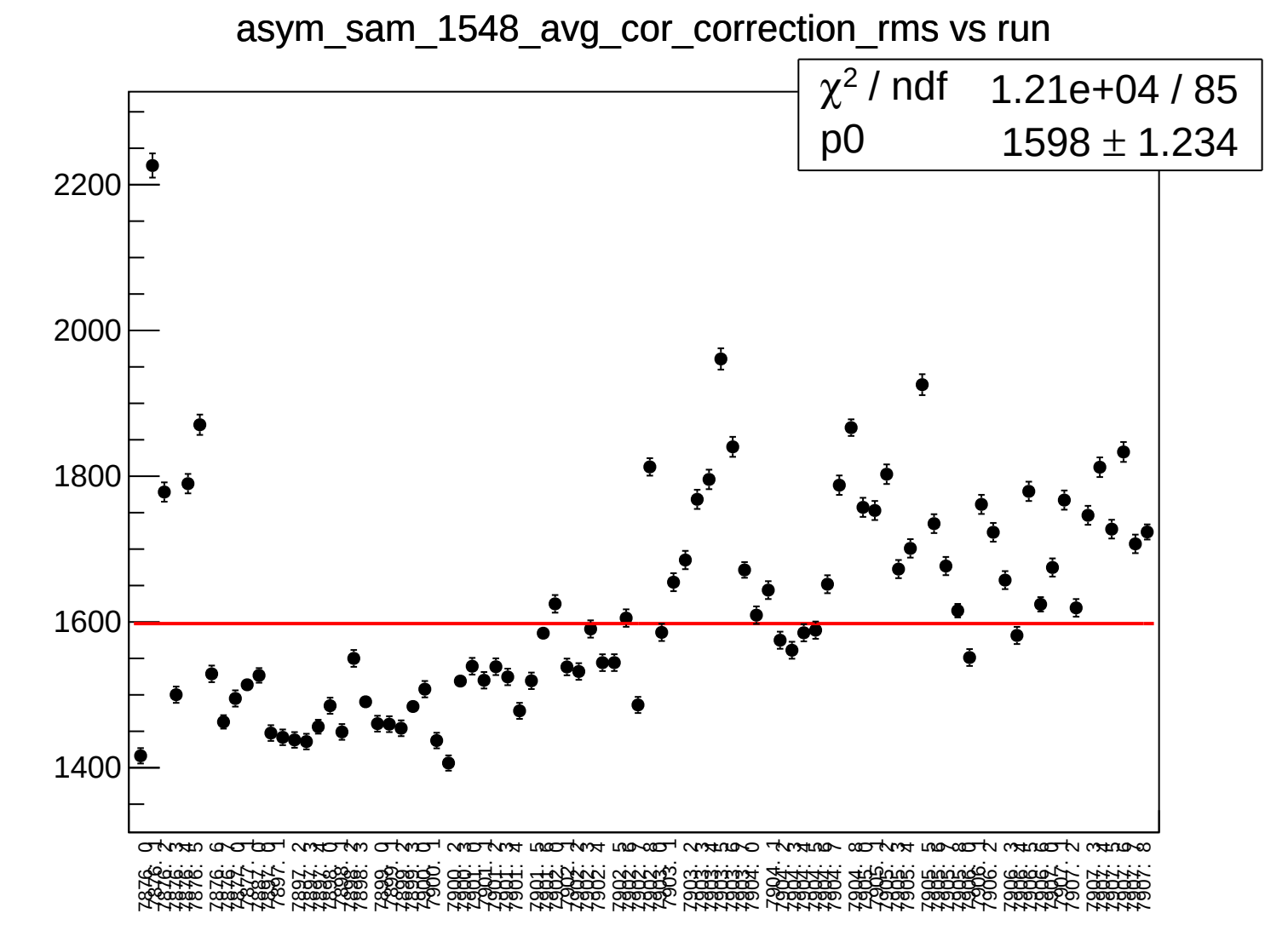

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.21e+04 / 85
p0 1598 ± 1.234
2200
2000
1800
1600
1400

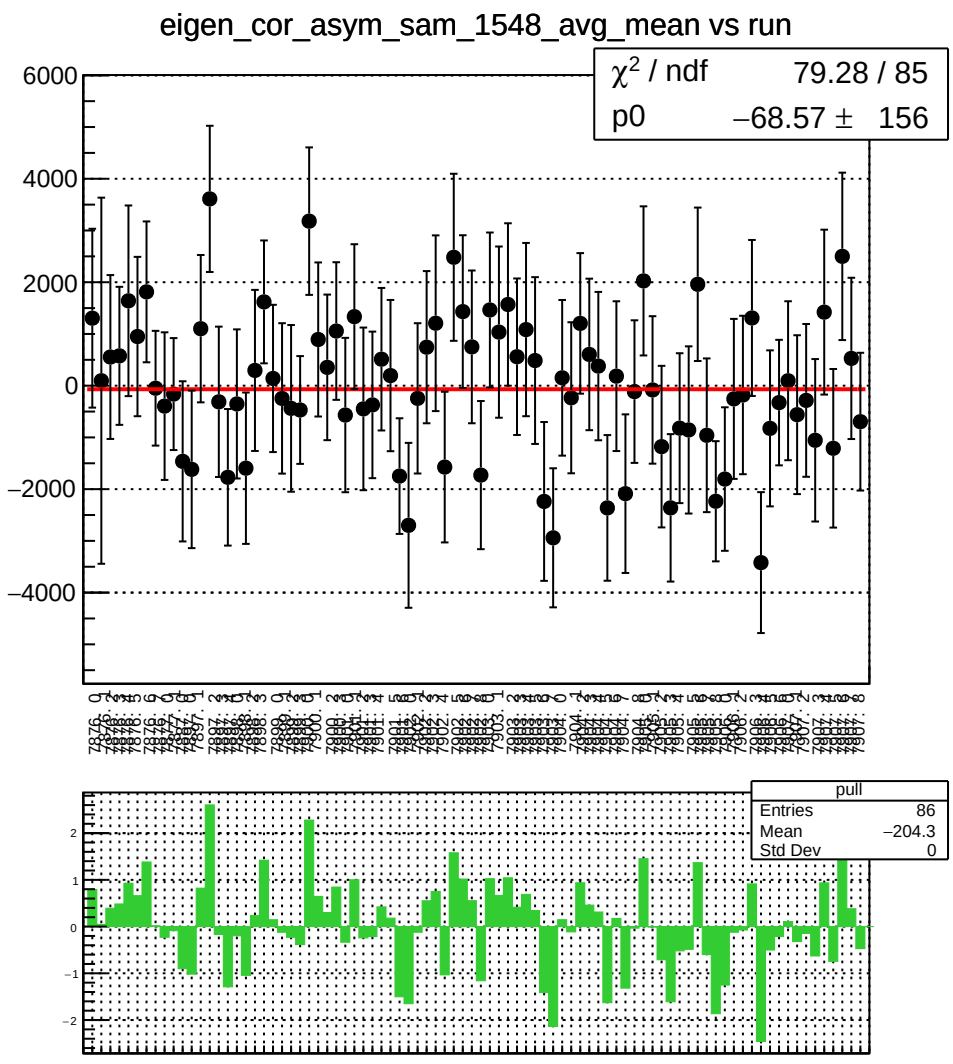

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 79.28 / 85
p0 −68.57 ± 156
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −204.3
Std Dev 0
2
1
0
−1
−2

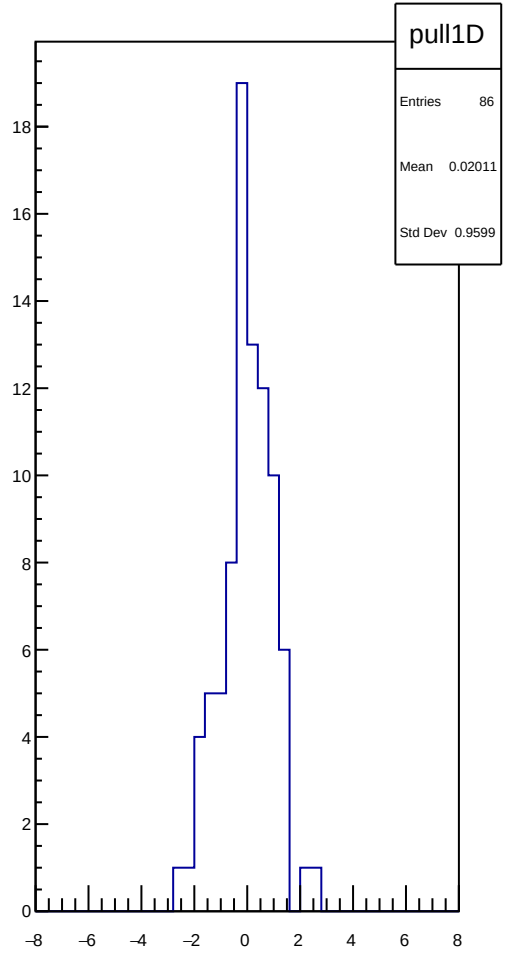

pull1D
Entries 86
Mean 0.02011
Std Dev 0.9599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

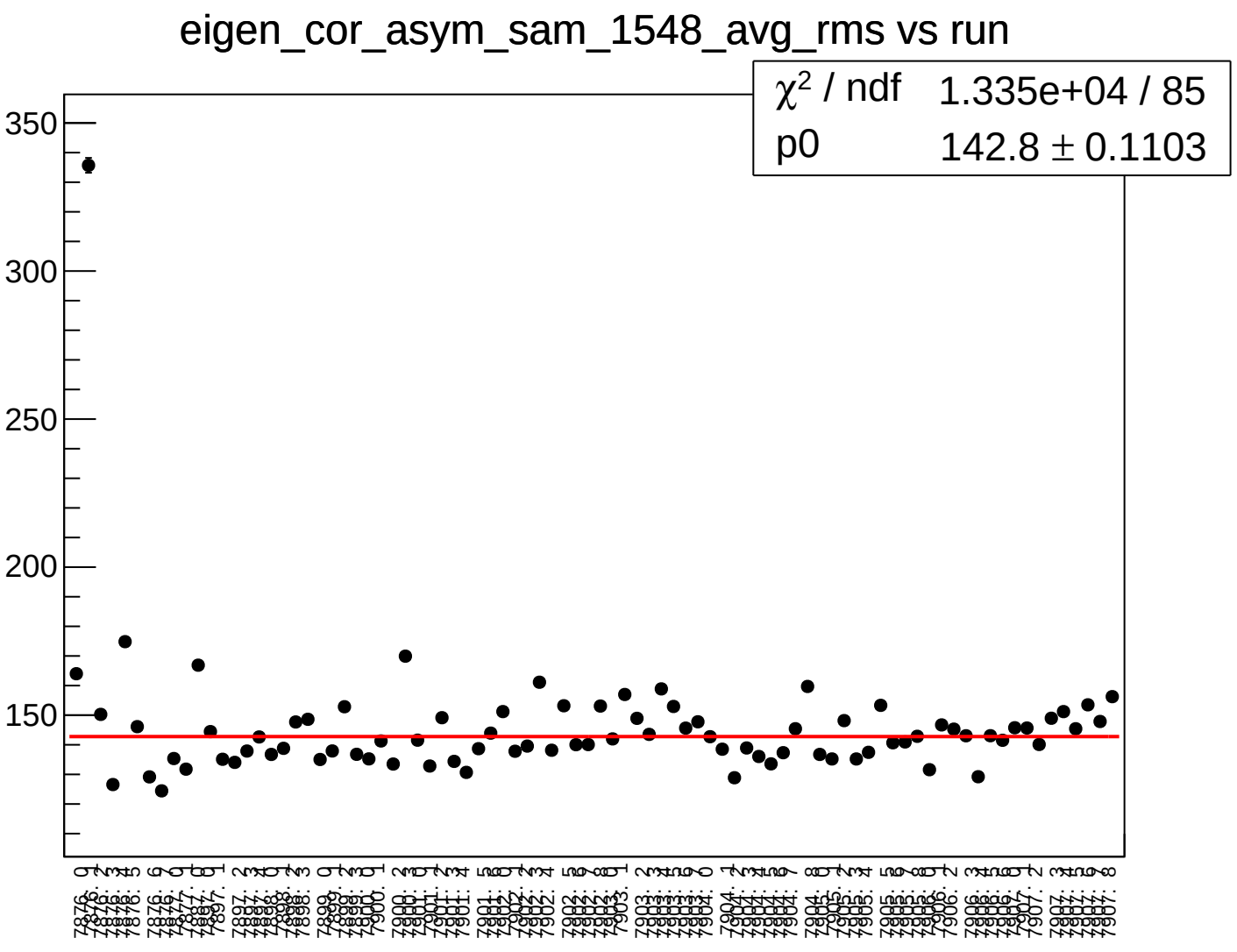

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.335e+04 / 85
p0 142.8 ± 0.1103
350
300
250
200
150

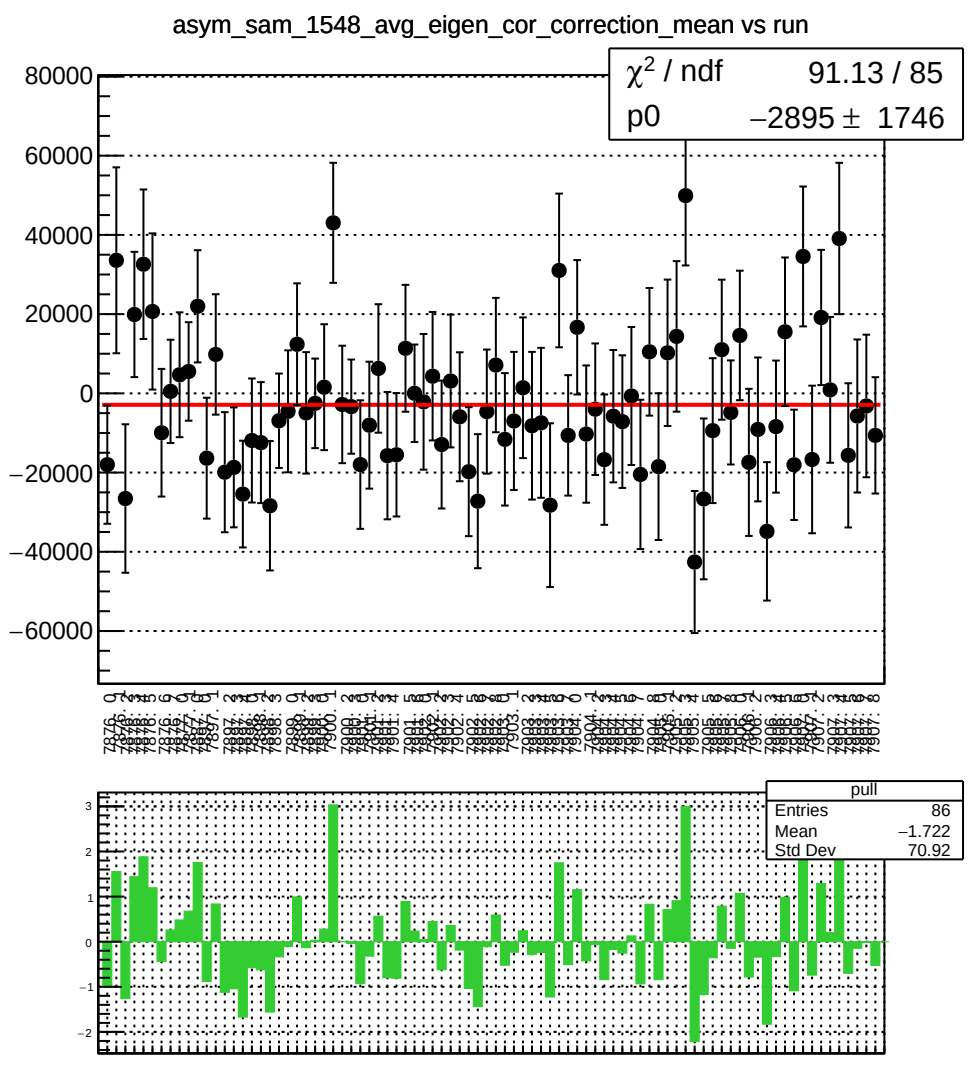

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 91.13 / 85
p0 −2895 ± 1746
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1.722
Std Dev 70.92
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01105
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

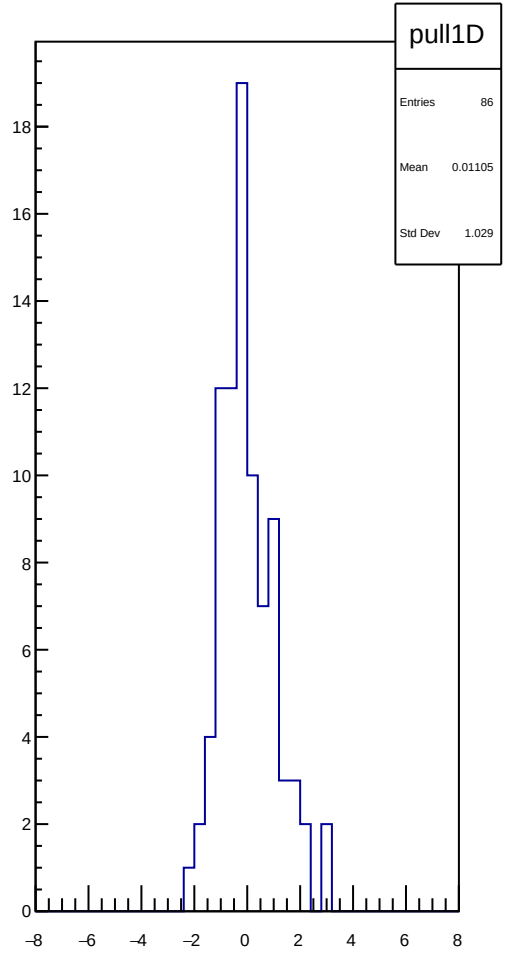

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.21e+04 / 85
p0 1598 ± 1.234
2200
2000
1800
1600
1400

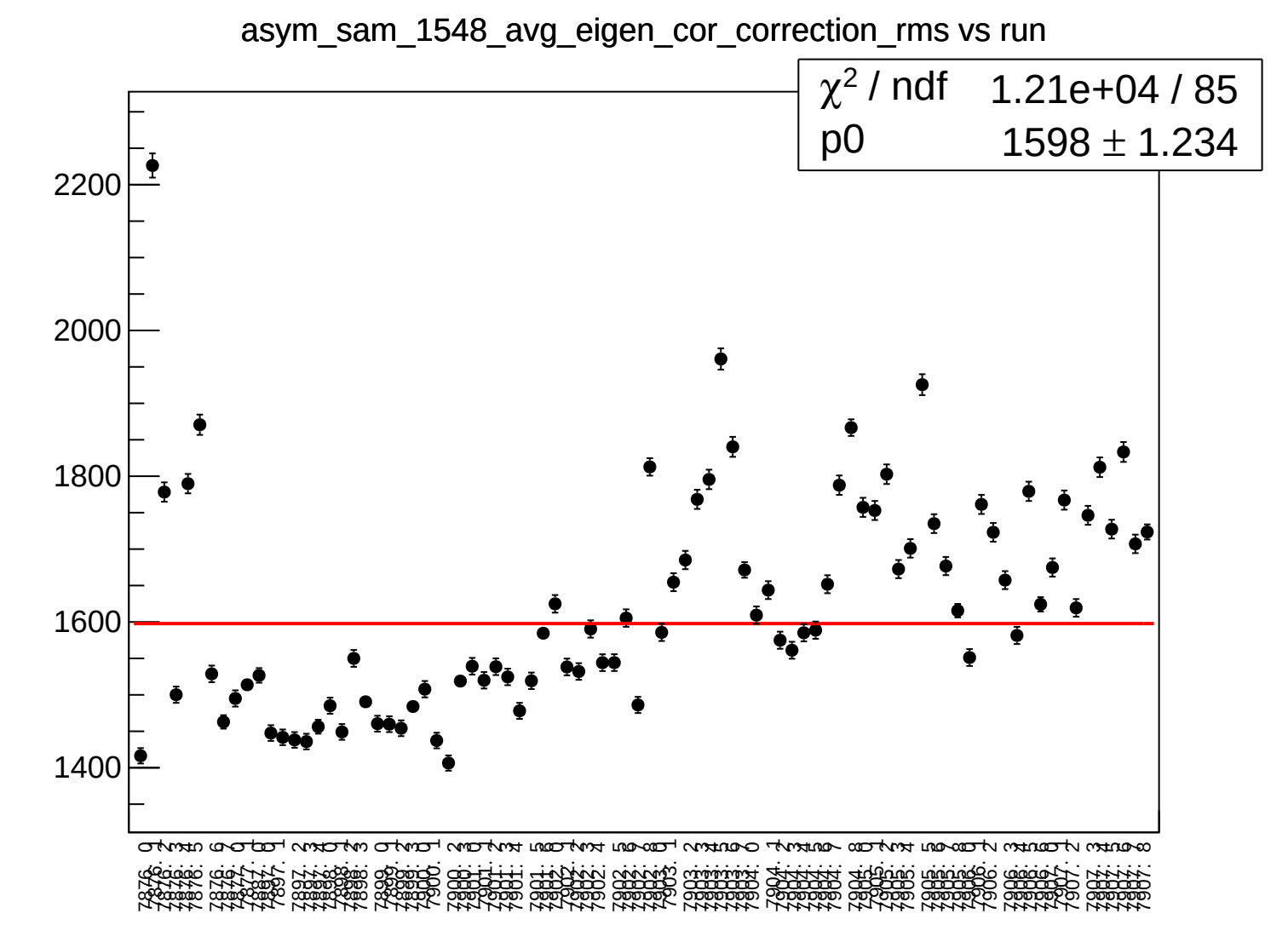

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 79.28 / 85
p0 −68.57 ± 156
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −204.3
Std Dev 0
2
1
0
−1
−2

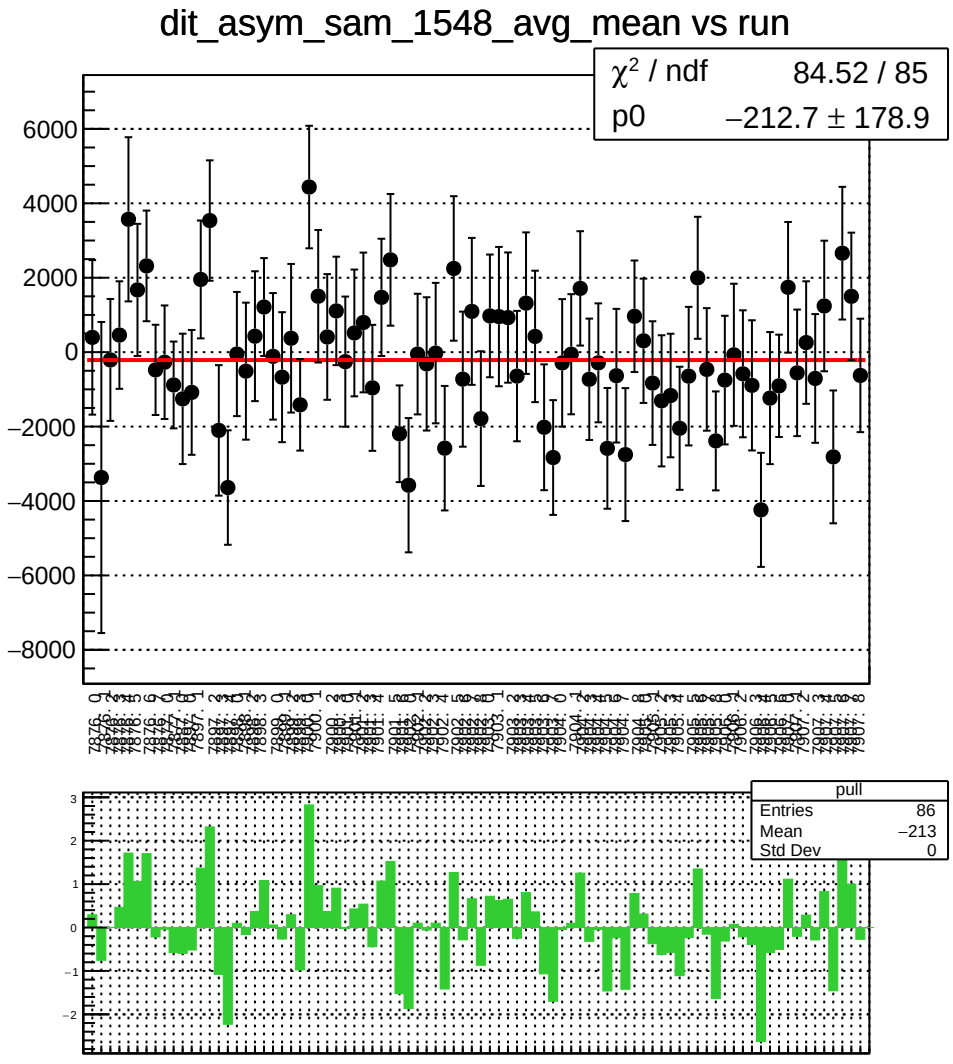

pull1D
Entries 86
Mean 0.02011
Std Dev 0.9599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

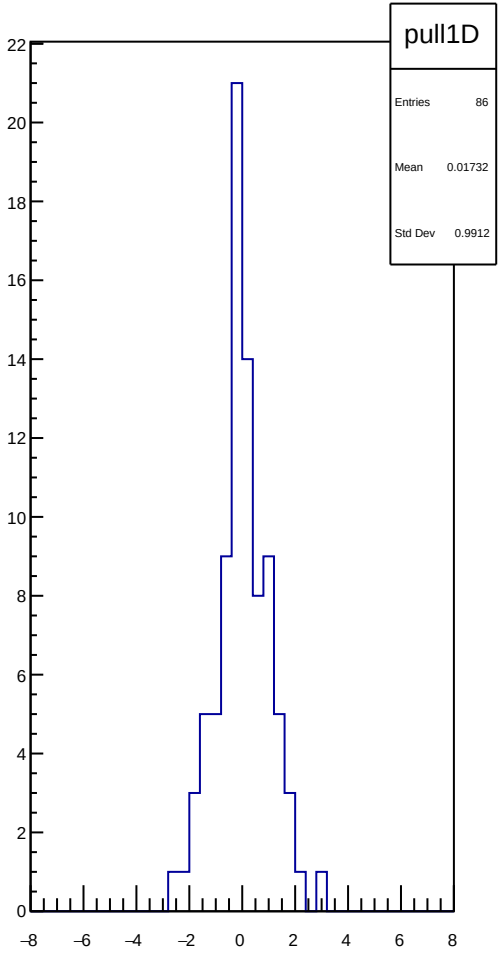

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.335e+04 / 85
p0 142.8 ± 0.1103
350
300
250
200
150

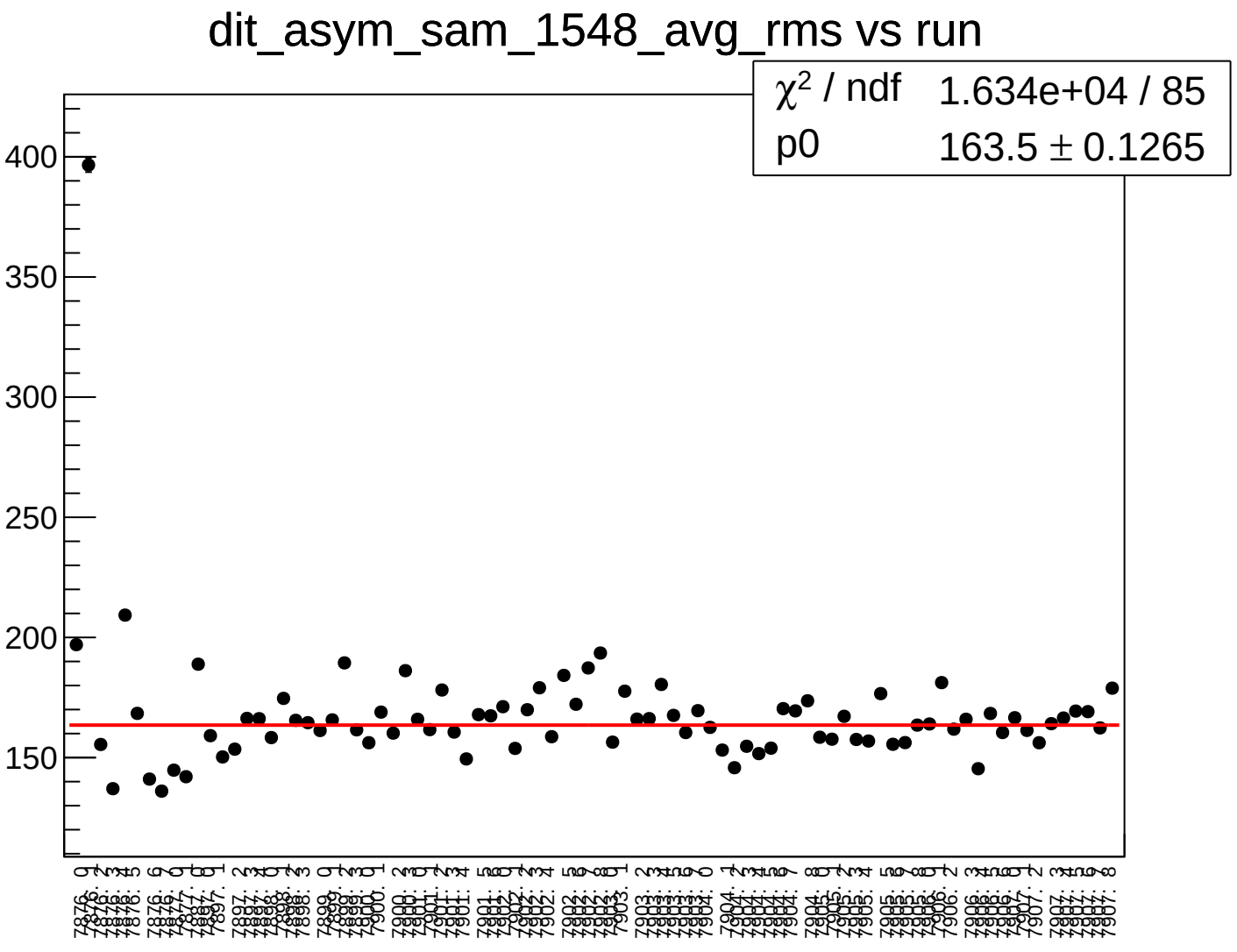

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.13 / 85
p0 −2895 ± 1746
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1.722
Std Dev 70.92
3
2
1
0
−1
−2

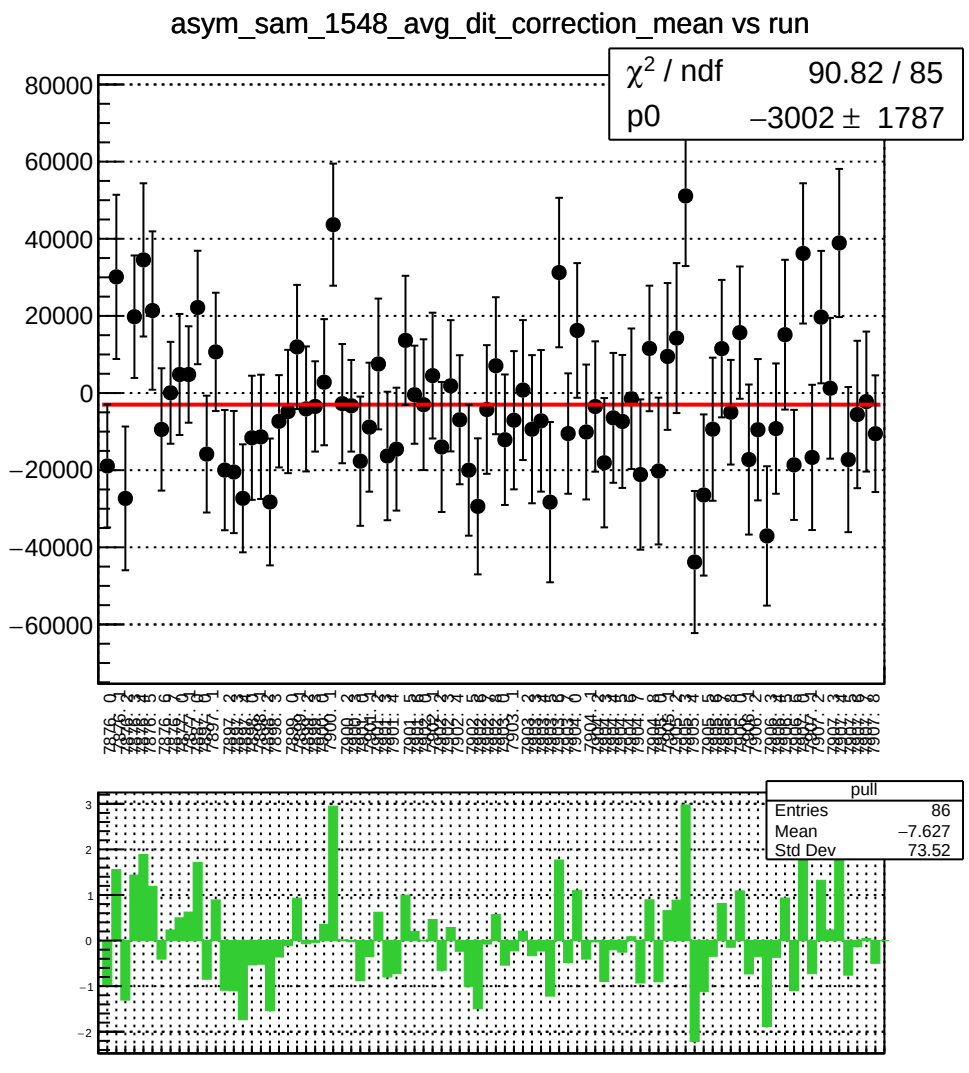

pull1D
Entries 86
Mean 0.01105
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

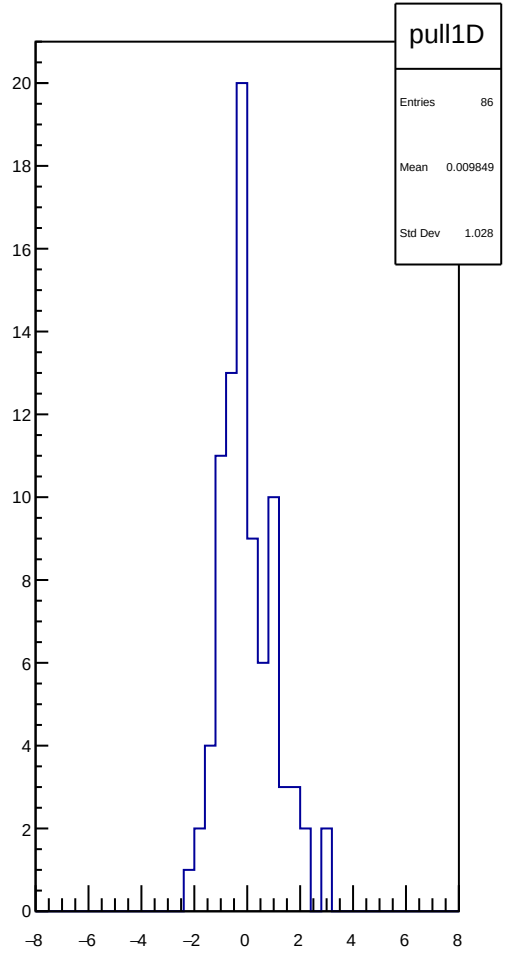

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.21e+04 / 85
p0 1598 ± 1.234
2200
2000
1800
1600
1400

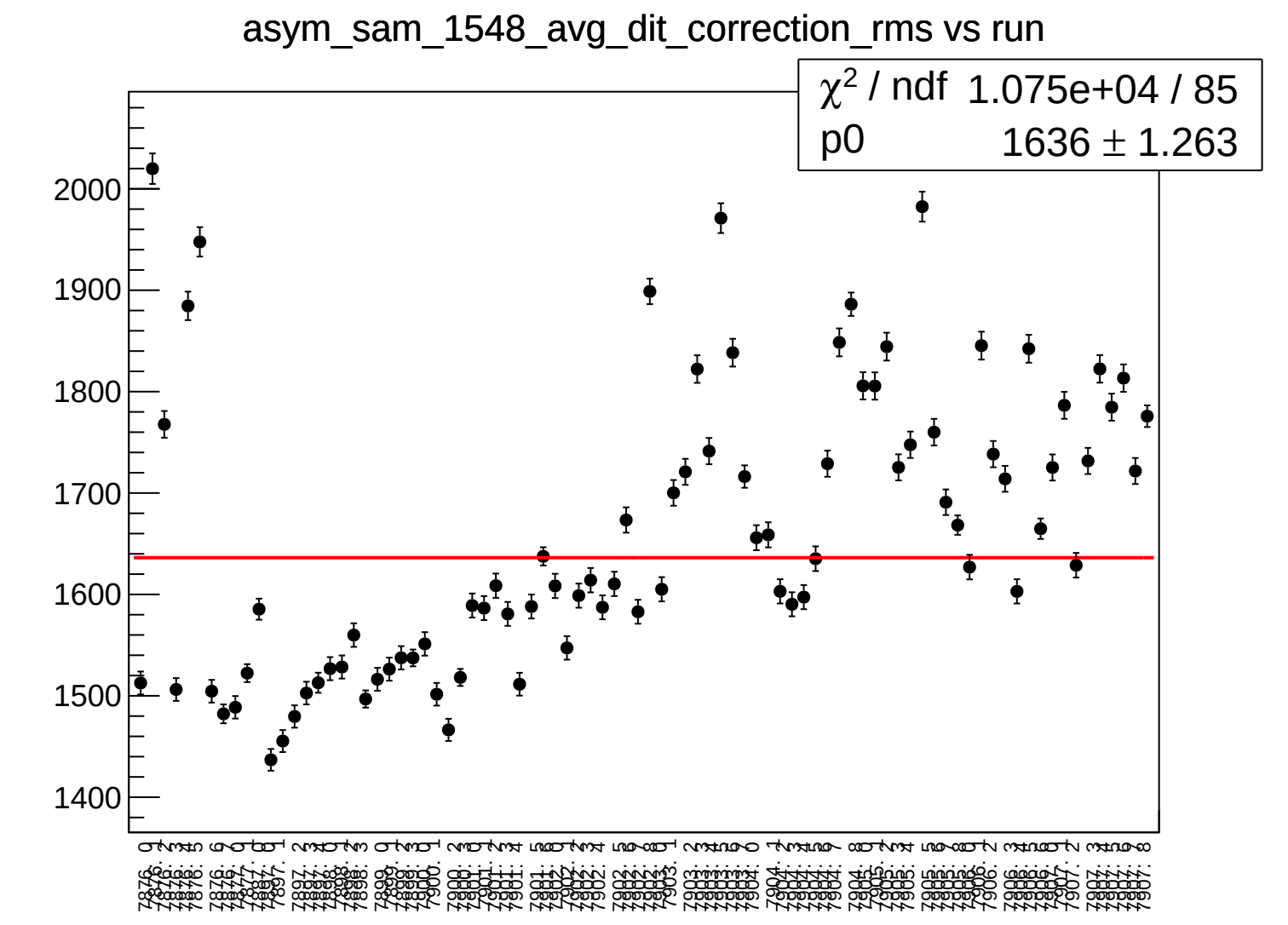

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 84.52 / 85
p0 −212.7 ± 178.9
pull
Entries 86
Mean −213
Std Dev 0

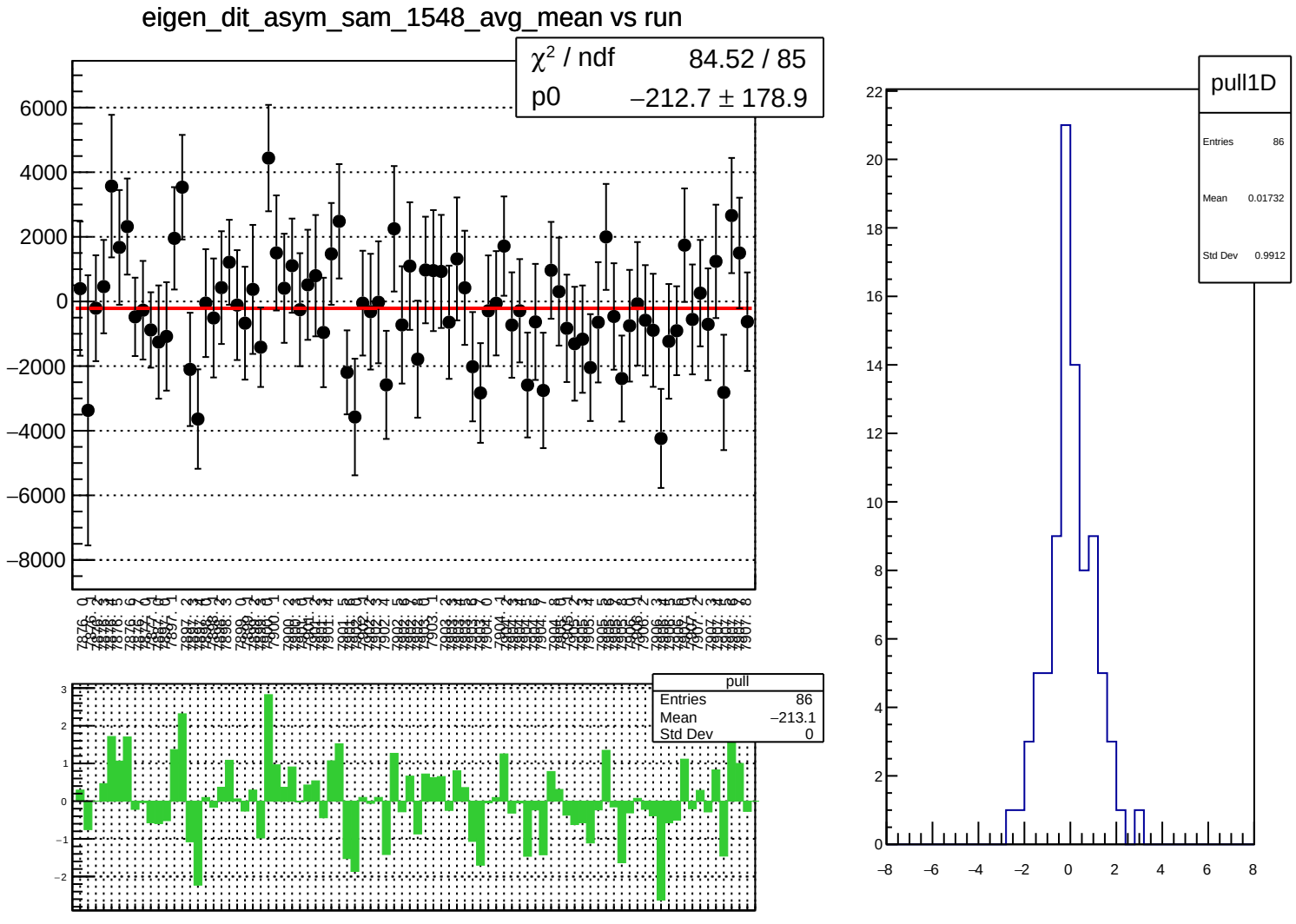

pull1D
Entries 86
Mean 0.01732
Std Dev 0.9912

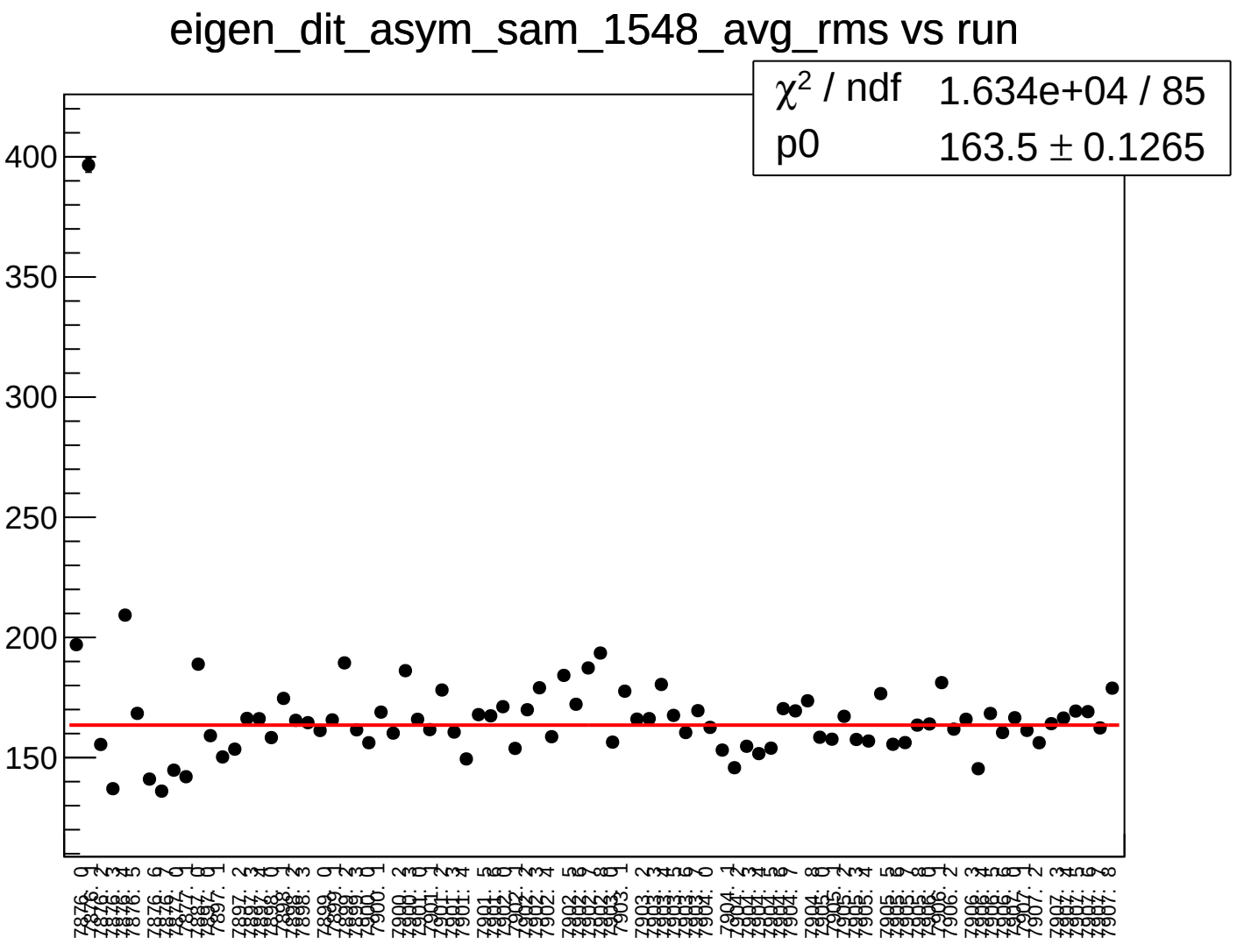

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.634e+04 / 85
p0 163.5 ± 0.1265
400
350
300
250
200
150

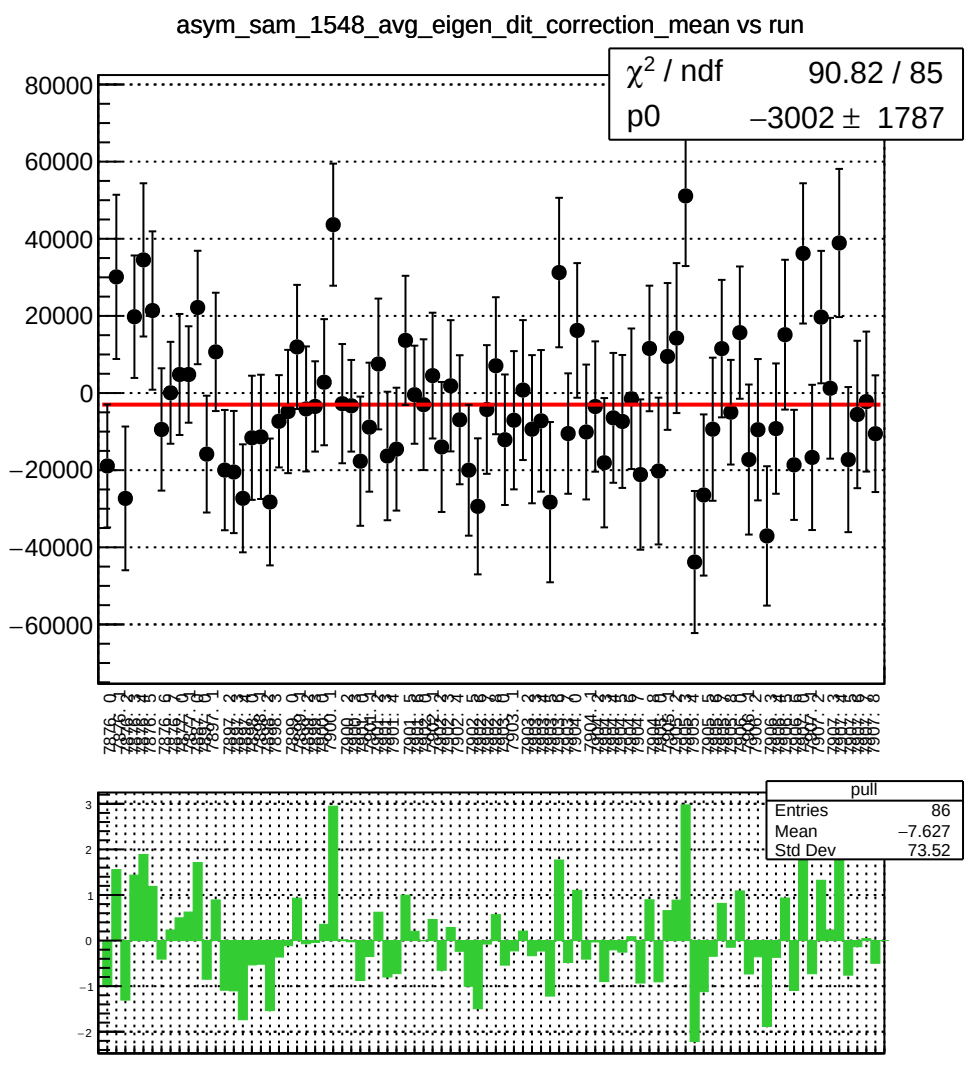

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 90.82 / 85
p0 −3002 ± 1787
pull
Entries 86
Mean −7.627
Std Dev 73.52

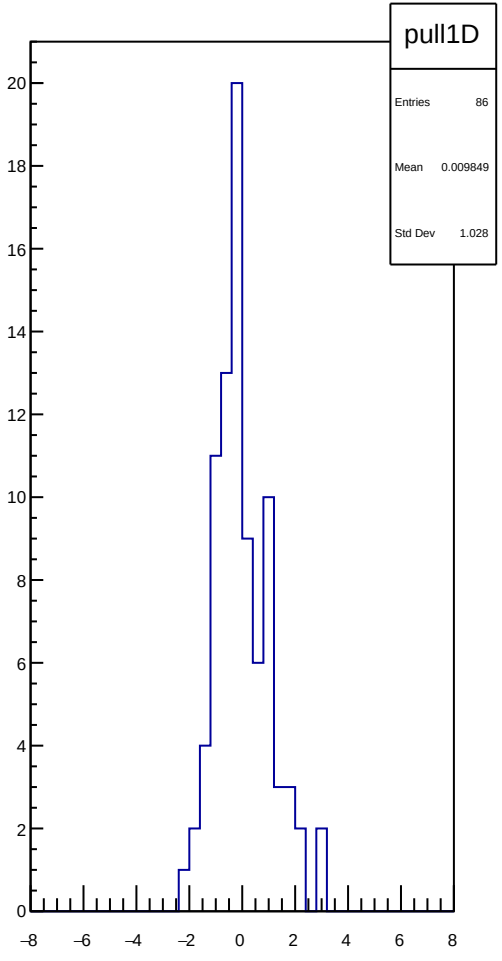

pull1D
Entries 86
Mean 0.009849
Std Dev 1.028

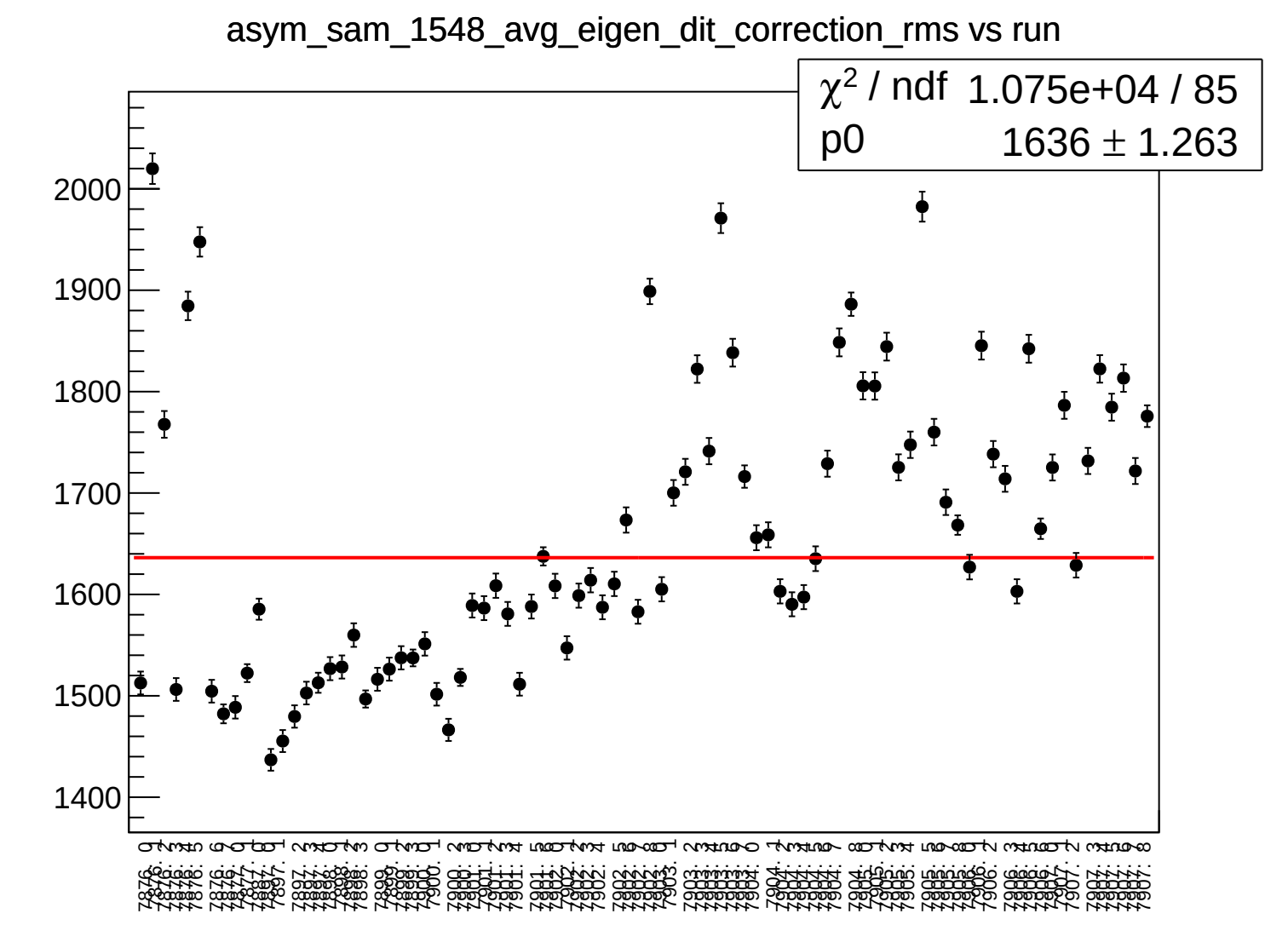

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1.075e+04 / 85
p0 1636 ± 1.263
2000
1900
1800
1700
1600
1500
1400

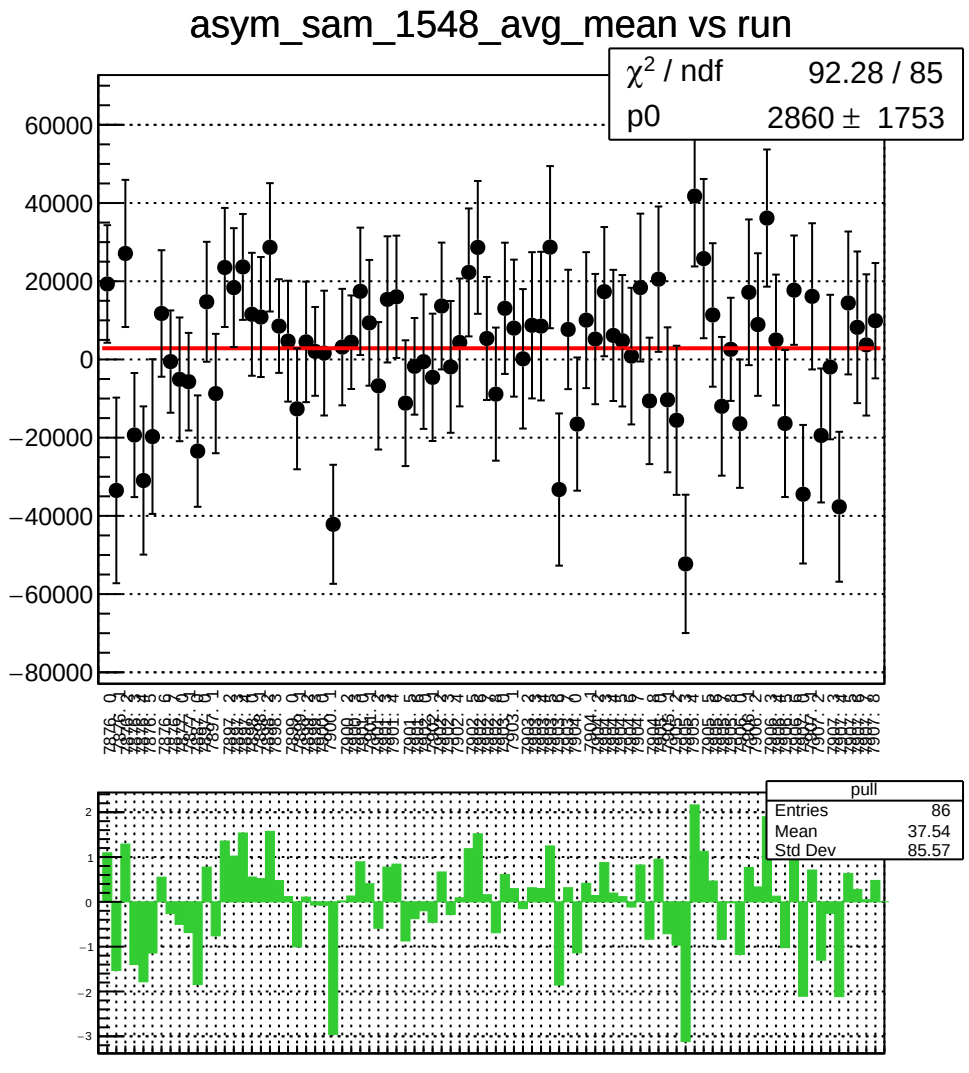

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 84.52 / 85
p0 −212.7 ± 178.9
pull
Entries 86
Mean −213.1
Std Dev 0
pull1D
Entries 86
Mean 0.01732
Std Dev 0.9912

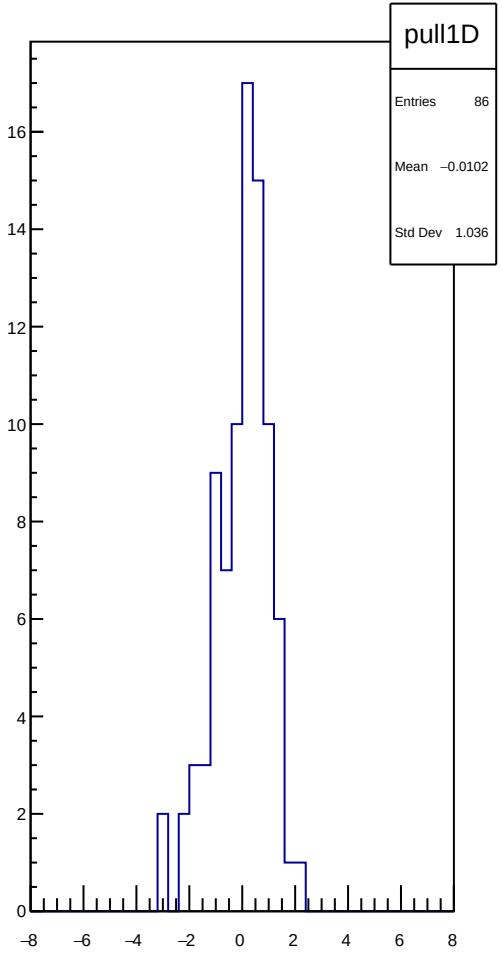

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.634e+04 / 85
p0 163.5 ± 0.1265
400
350
300
250
200
150

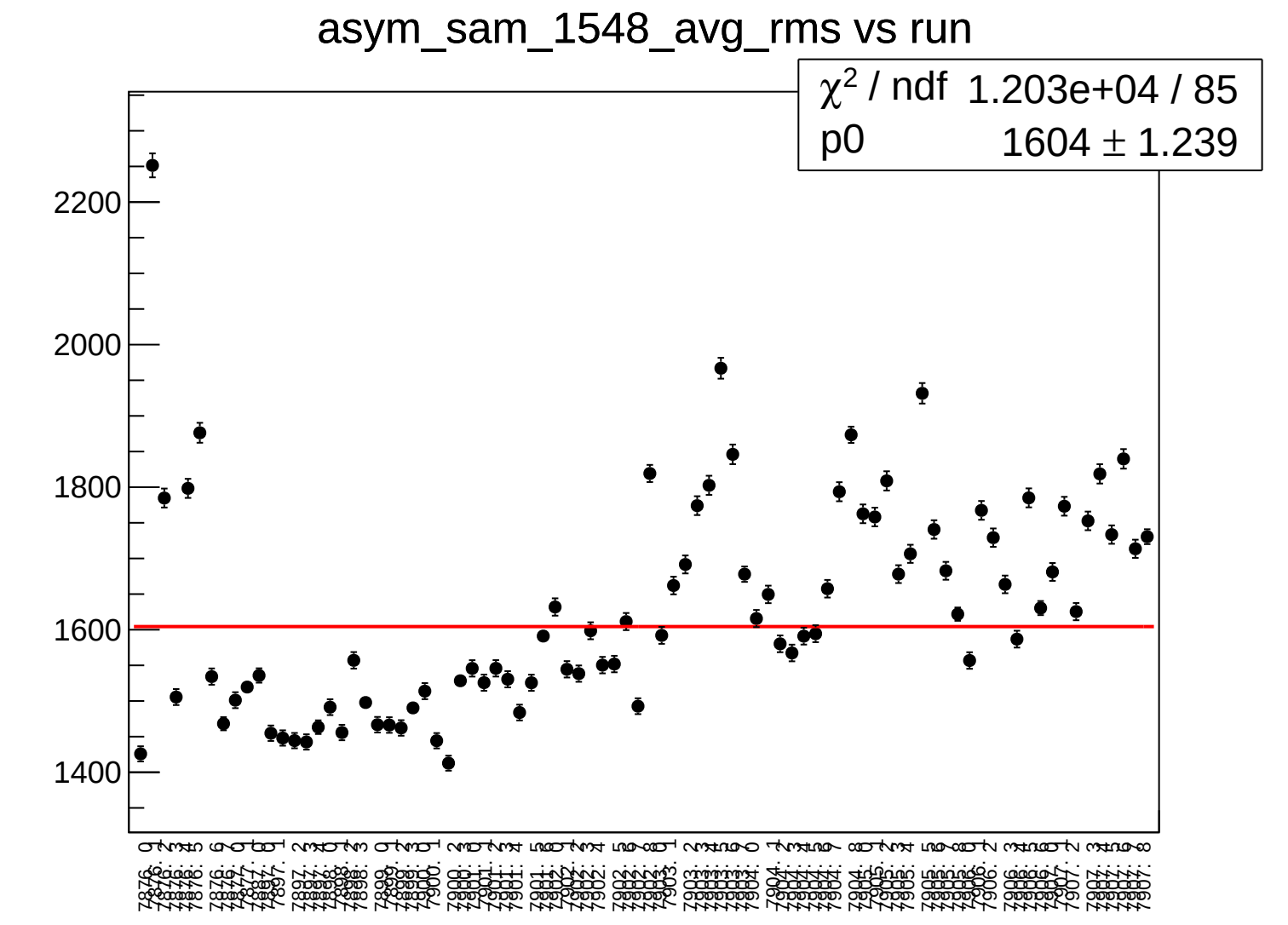

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.82 / 85
p0 −3002 ± 1787
pull
Entries 86
Mean −7.627
Std Dev 73.52

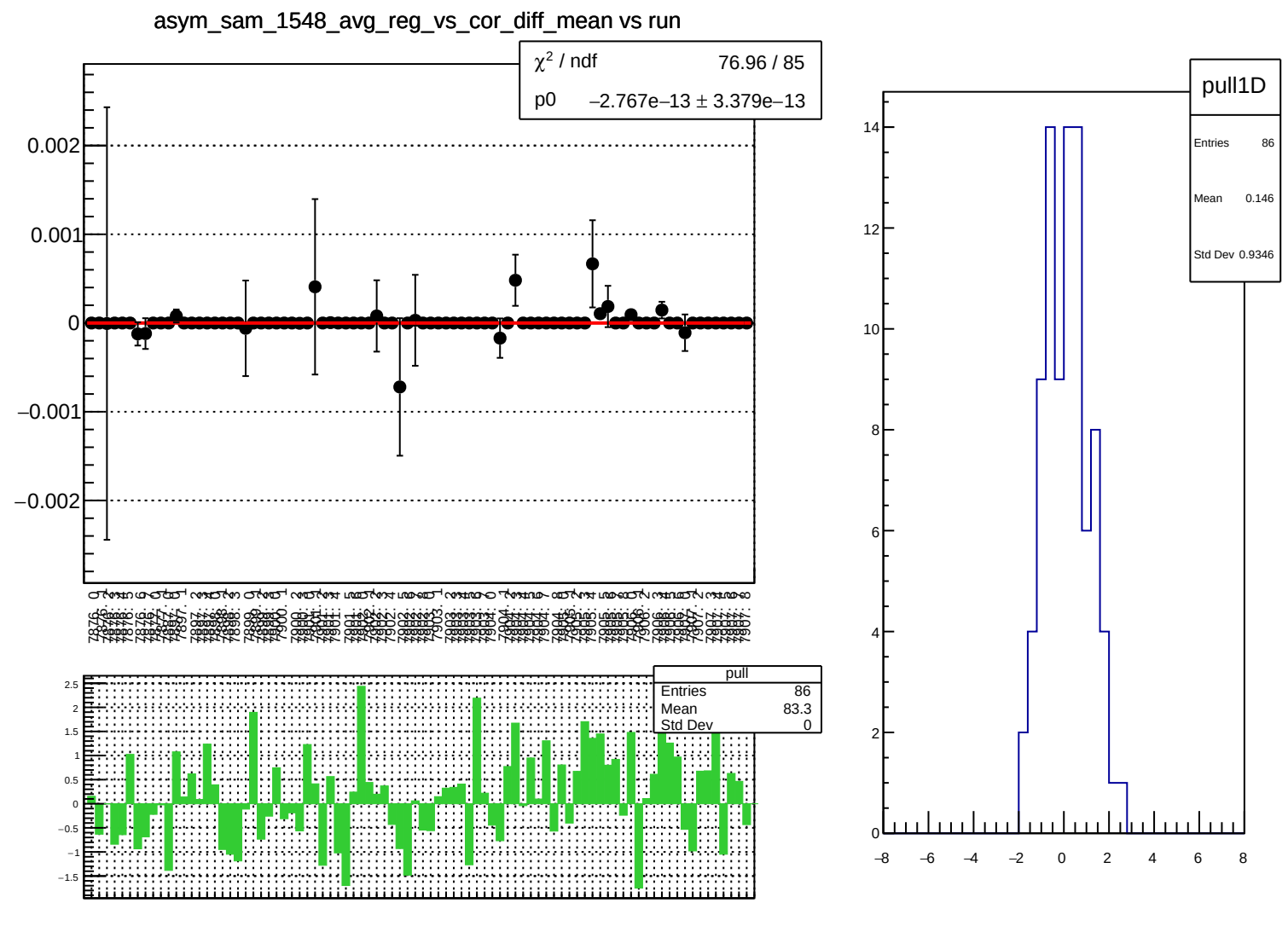

pull1D
Entries 86
Mean 0.009849
Std Dev 1.028

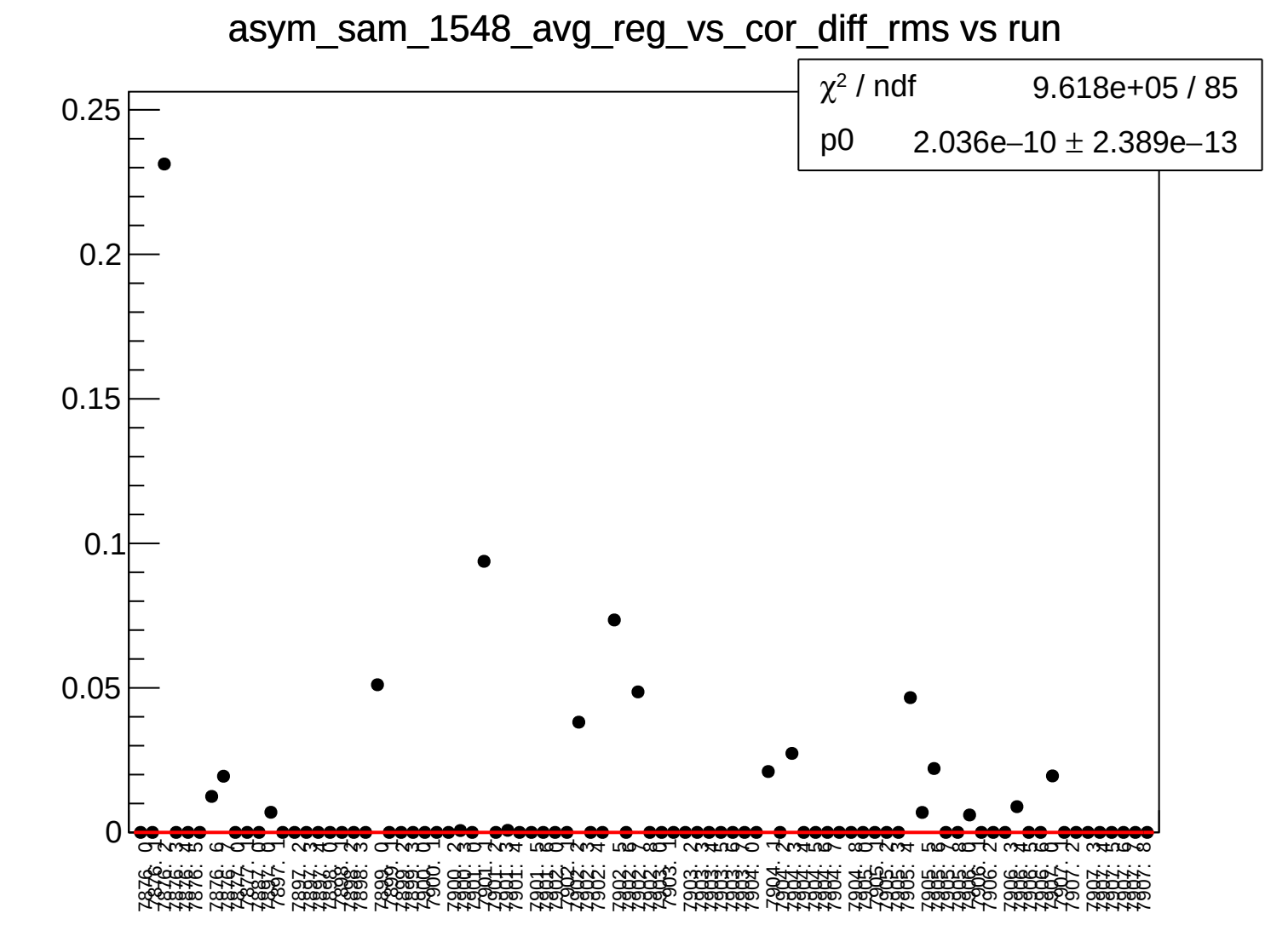

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.075e+04 / 85
p0 1636 ± 1.263
2000
1900
1800
1700
1600
1500
1400

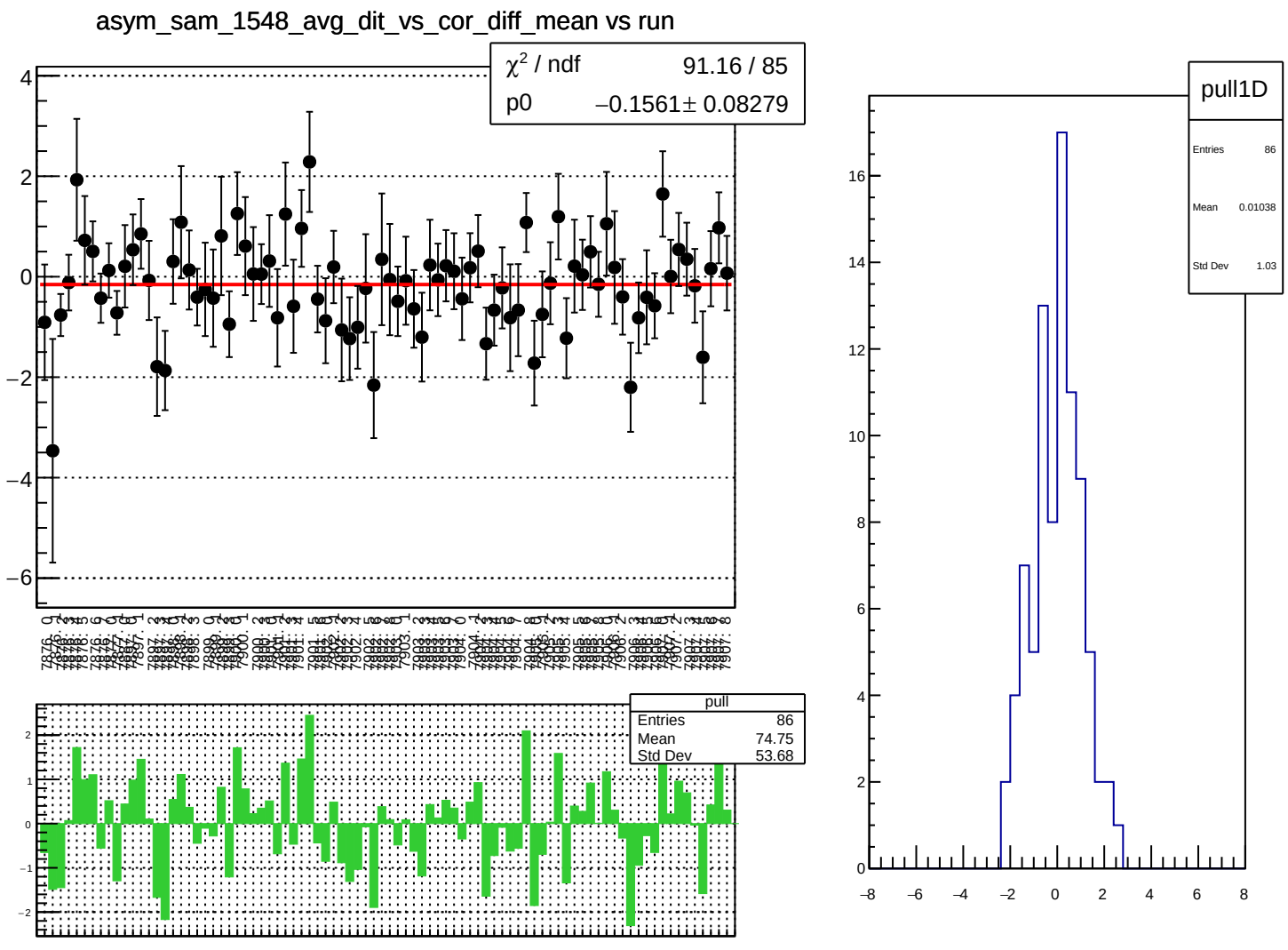

asym_sam_1548_avg_mean vs run
χ² / ndf 92.28 / 85
p0 2860 ± 1753
pull
Entries 86
Mean 37.54
Std Dev 85.57

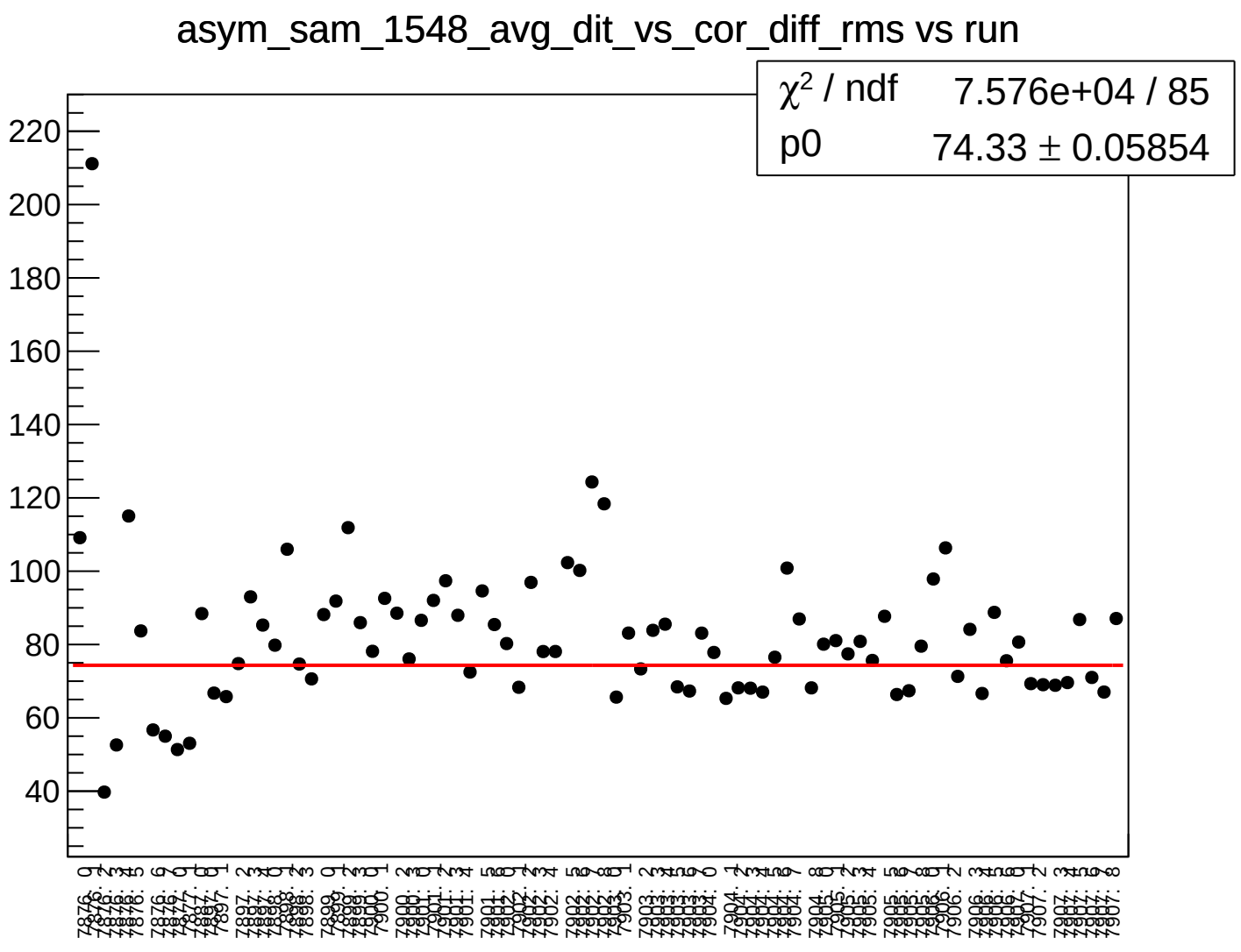

pull1D
Entries 86
Mean −0.0102
Std Dev 1.036

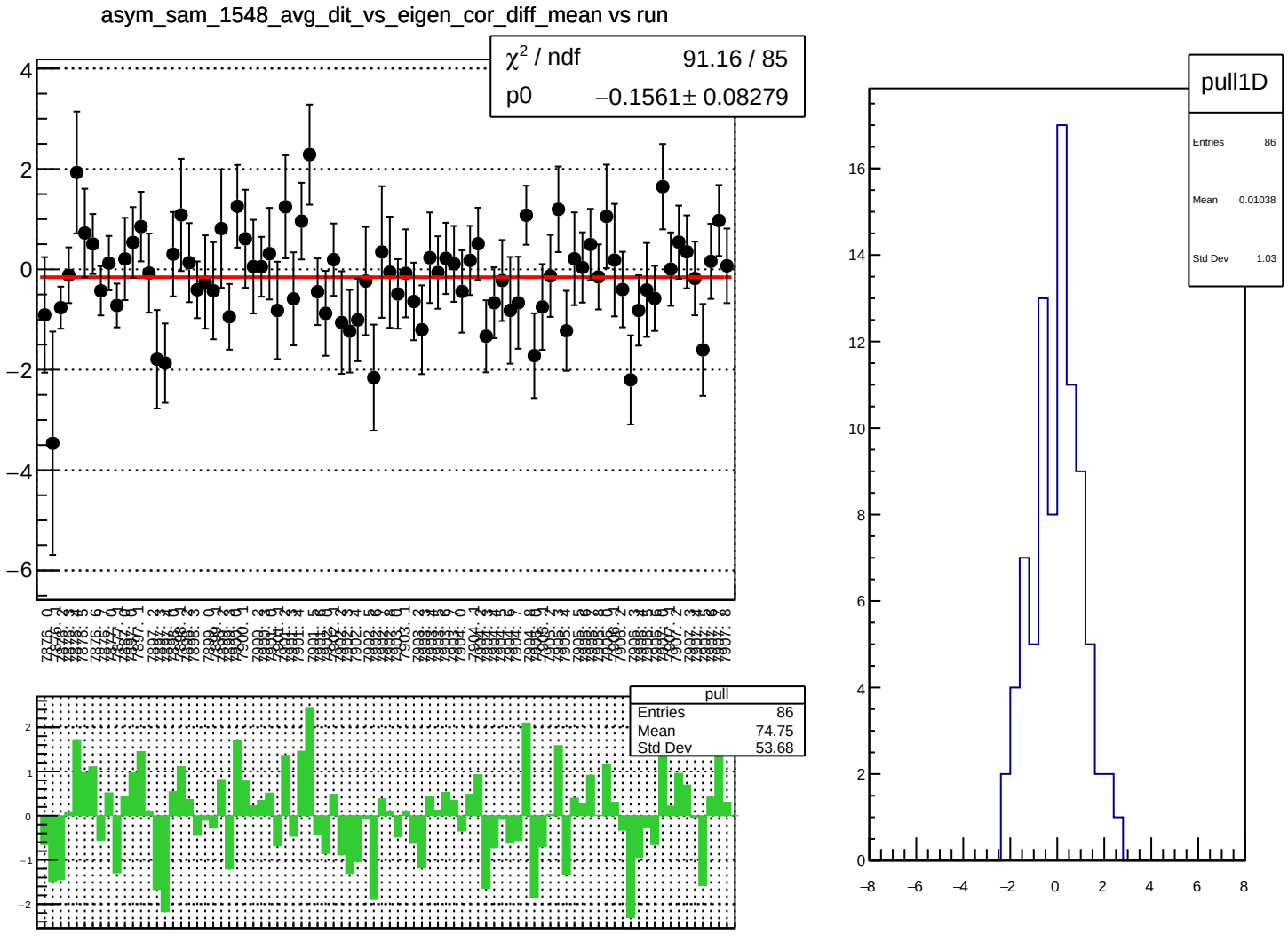

asym_sam_1548_avg_rms vs run
χ² / ndf 1.203e+04 / 85
p0 1604 ± 1.239
2200
2000
1800
1600
1400

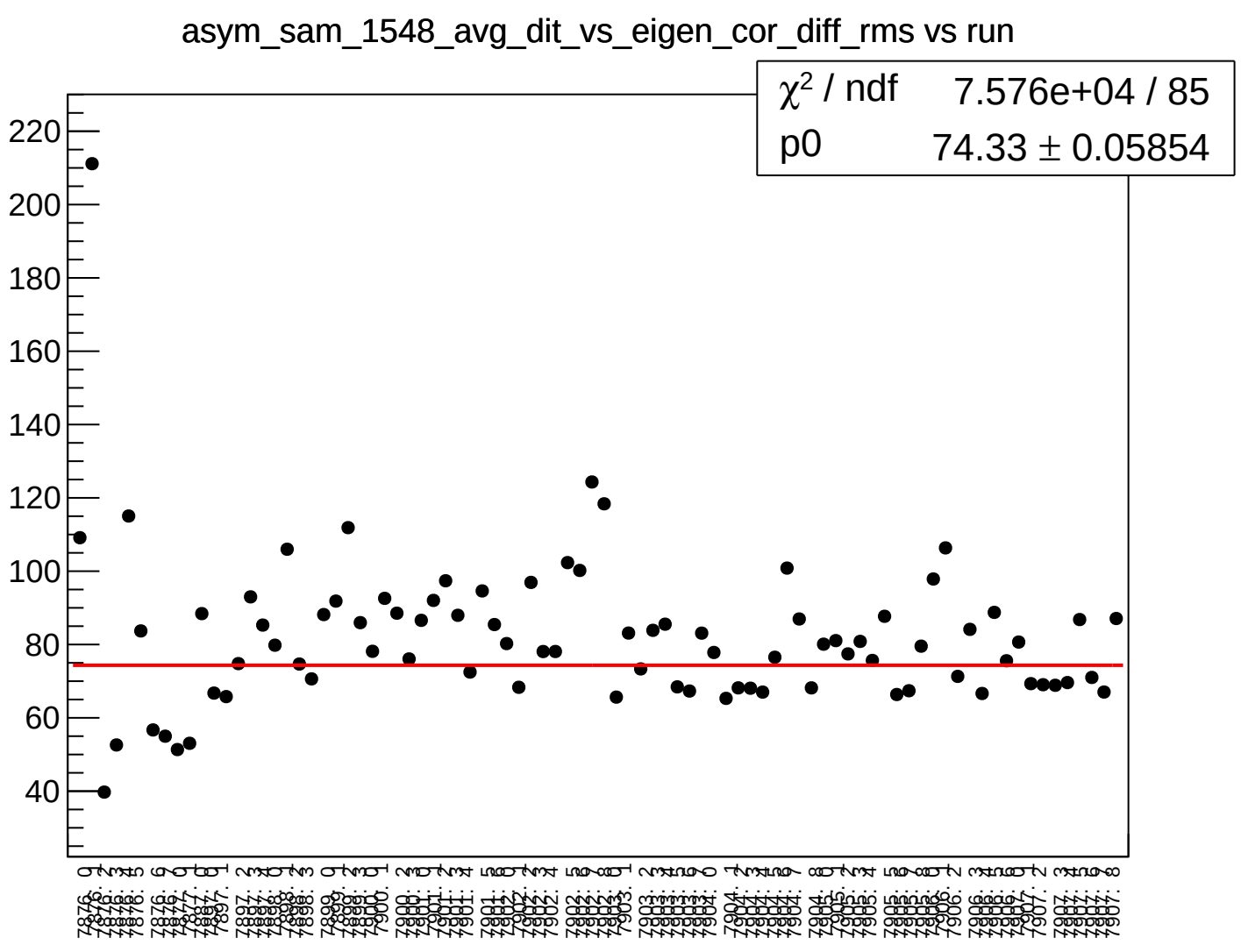

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.96 / 85
p0 −2.767e−13 ± 3.379e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 86
Mean 83.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.146
Std Dev 0.9346
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

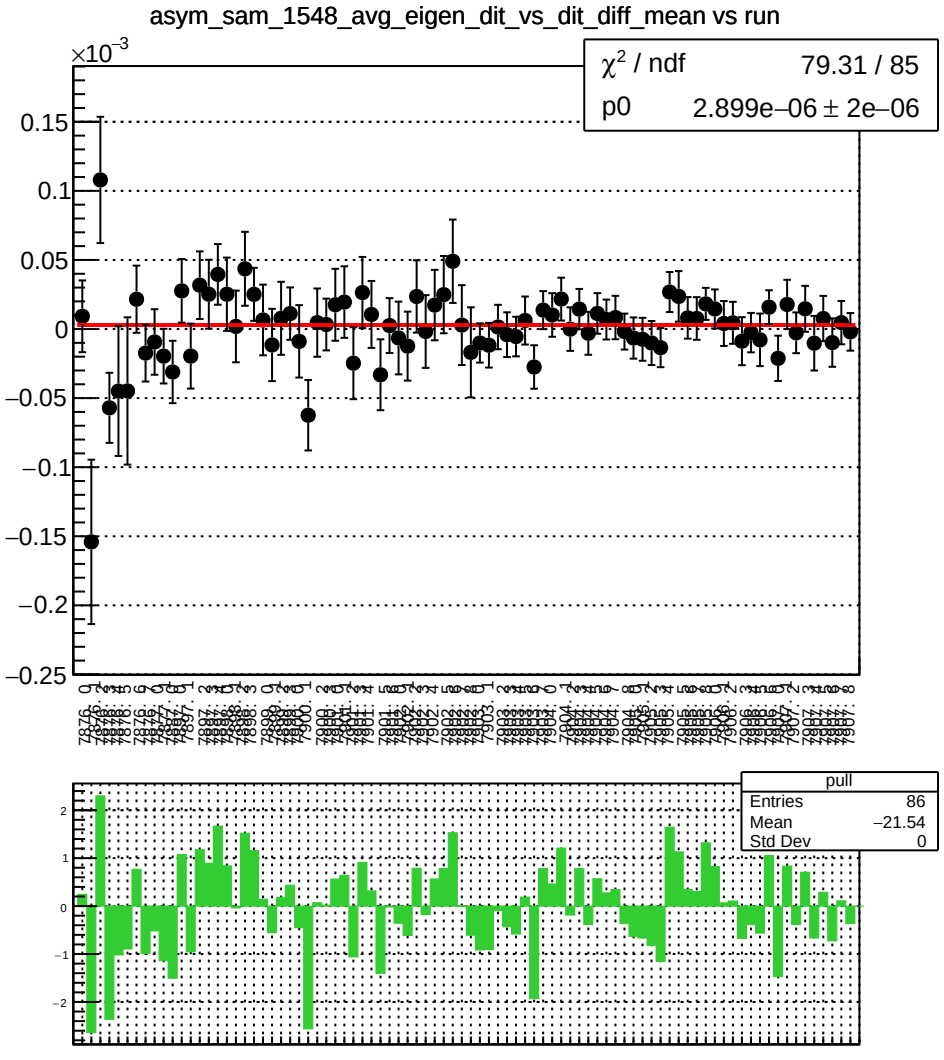

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.618e+05 / 85
p0 2.036e−10 ± 2.389e−13
0.25
0.2
0.15
0.1
0.05
0

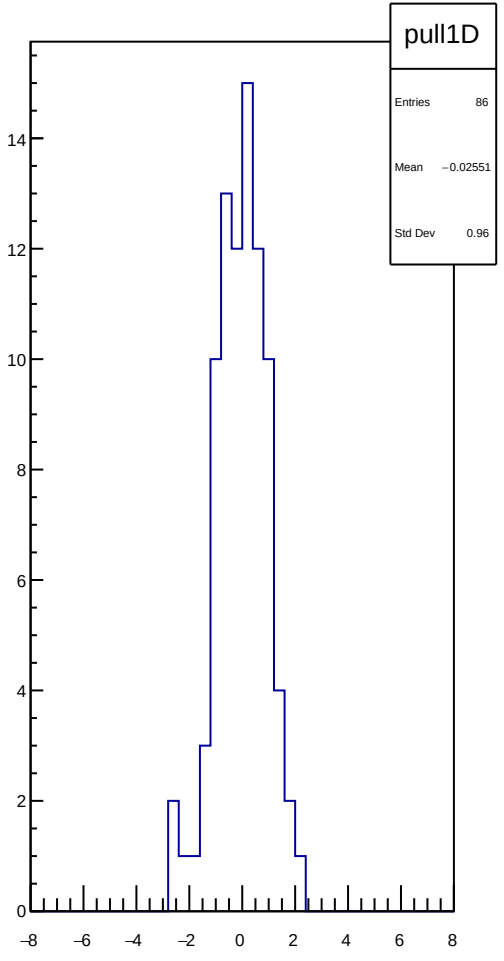

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.16 / 85
p0 −0.1561± 0.08279
pull
Entries 86
Mean 74.75
Std Dev 53.68
pull1D
Entries 86
Mean 0.01038
Std Dev 1.03

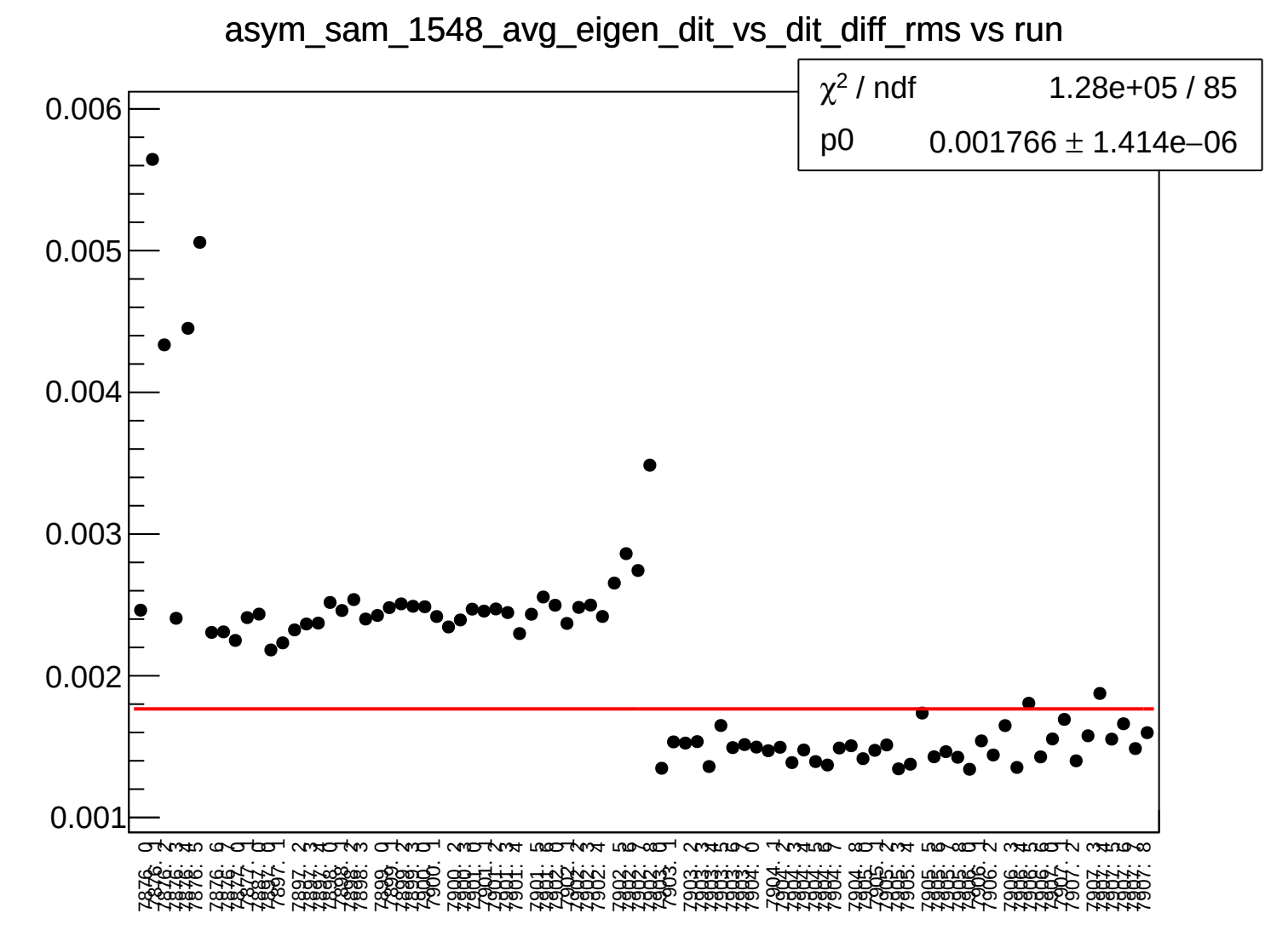

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.576e+04 / 85
p0 74.33 ± 0.05854
220
200
180
160
140
120
100
80
60
40

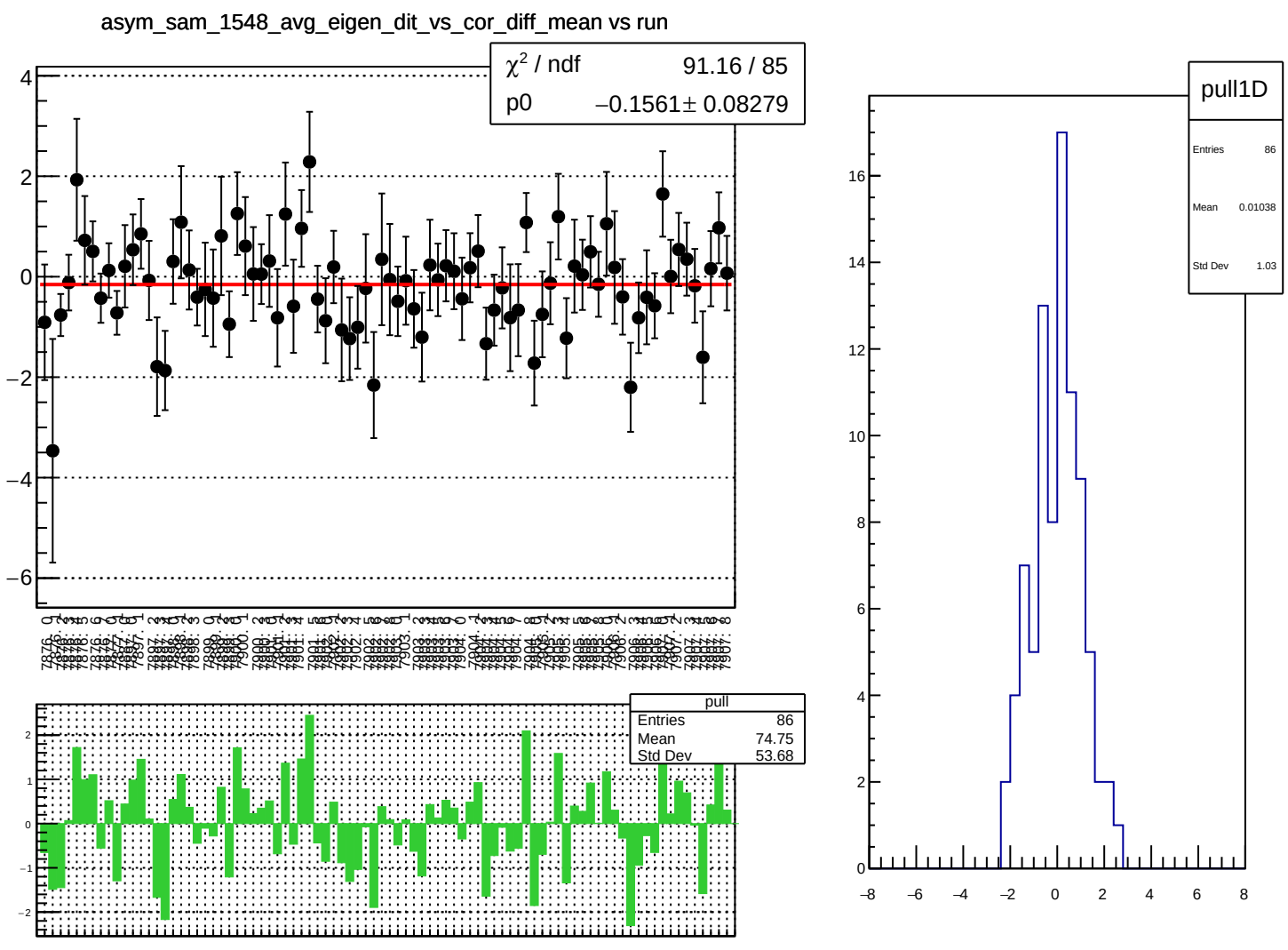

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.16 / 85
p0 −0.1561± 0.08279
pull
Entries 86
Mean 74.75
Std Dev 53.68
pull1D
Entries 86
Mean 0.01038
Std Dev 1.03

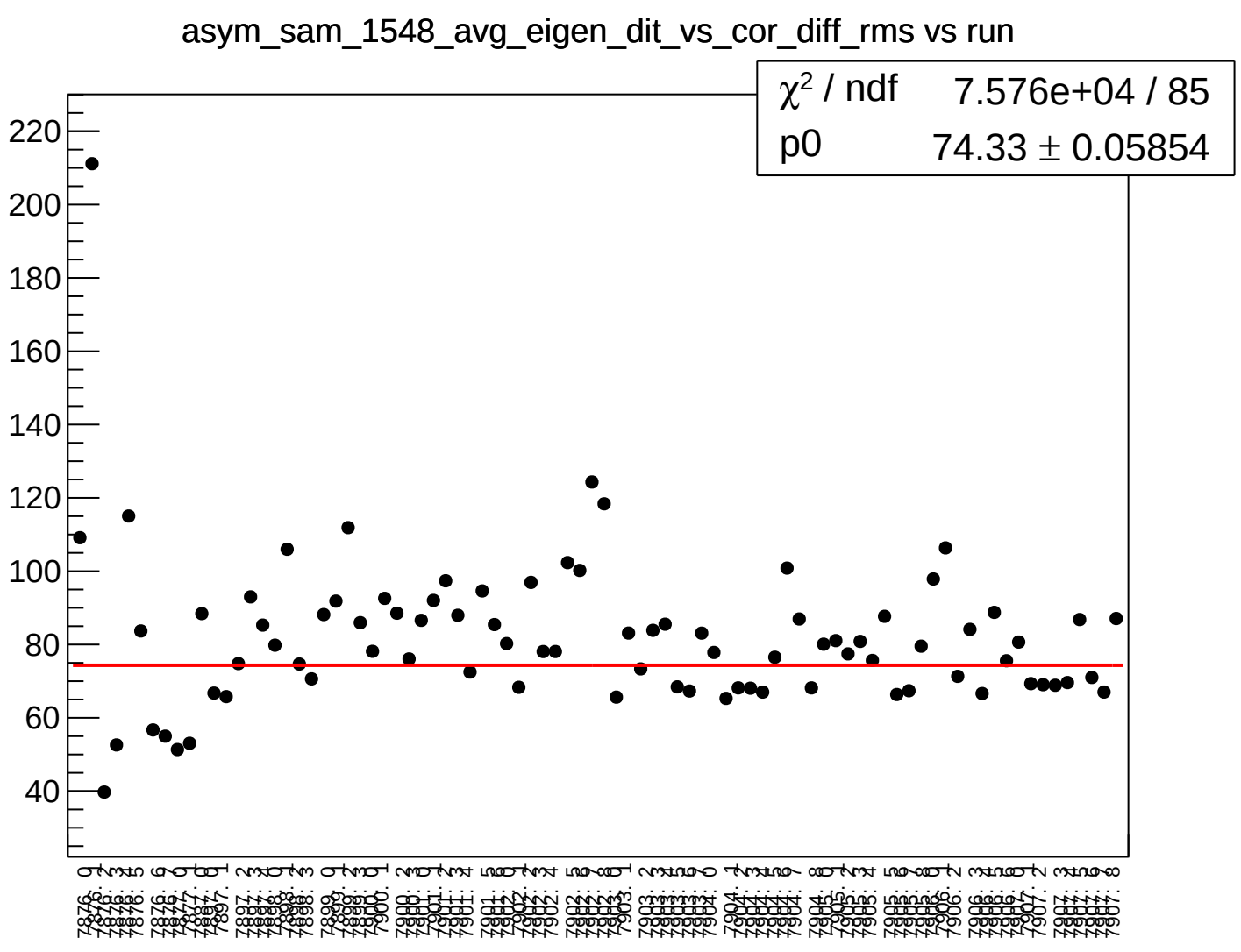

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.576e+04 / 85
p0 74.33 ± 0.05854
220
200
180
160
140
120
100
80
60
40

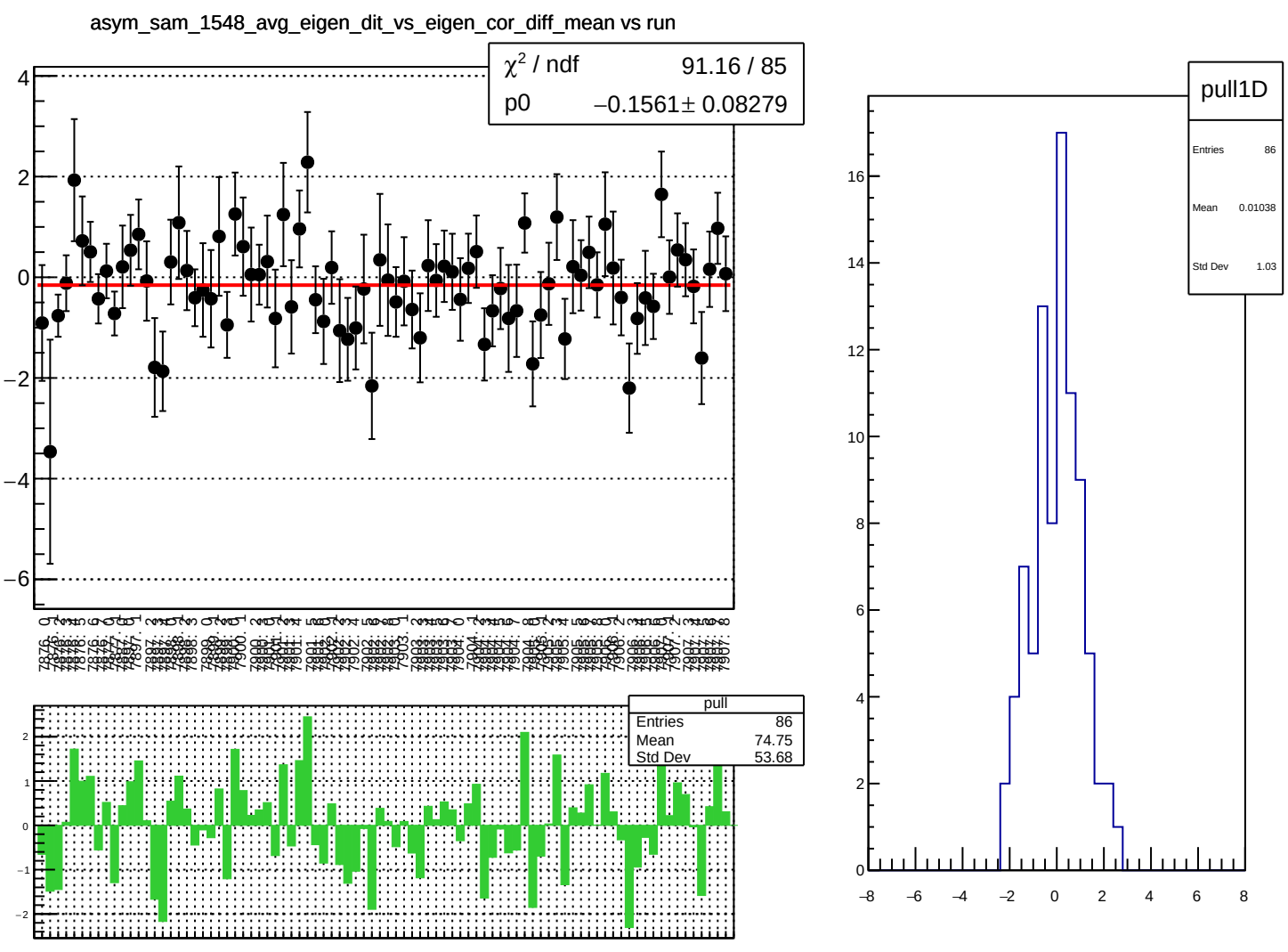

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.31 / 85
p0 2.899e−06 ± 2e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 86
Mean −21.54
Std Dev 0
2
1
0
−1
−2

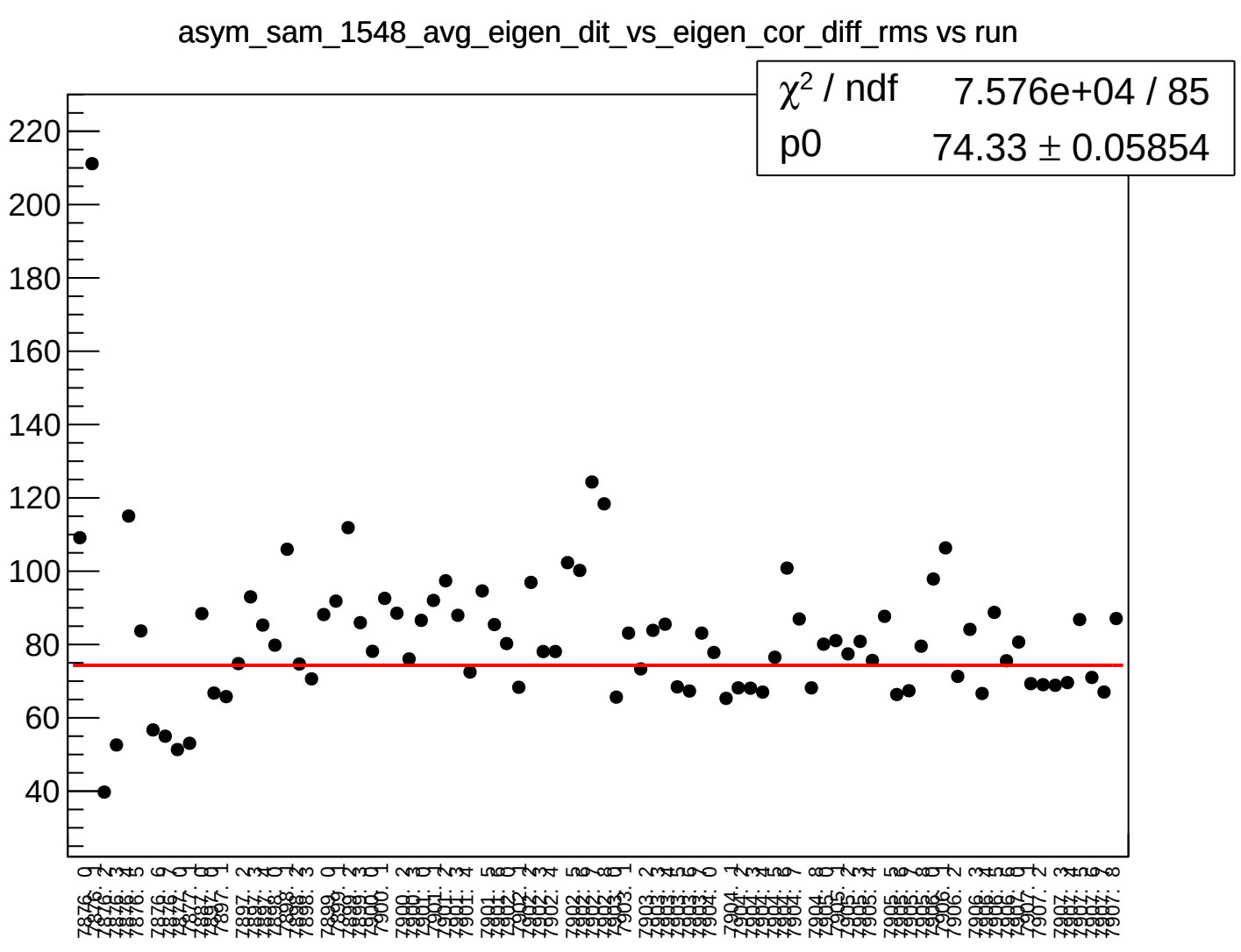

pull1D
Entries 86
Mean −0.02551
Std Dev 0.96
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

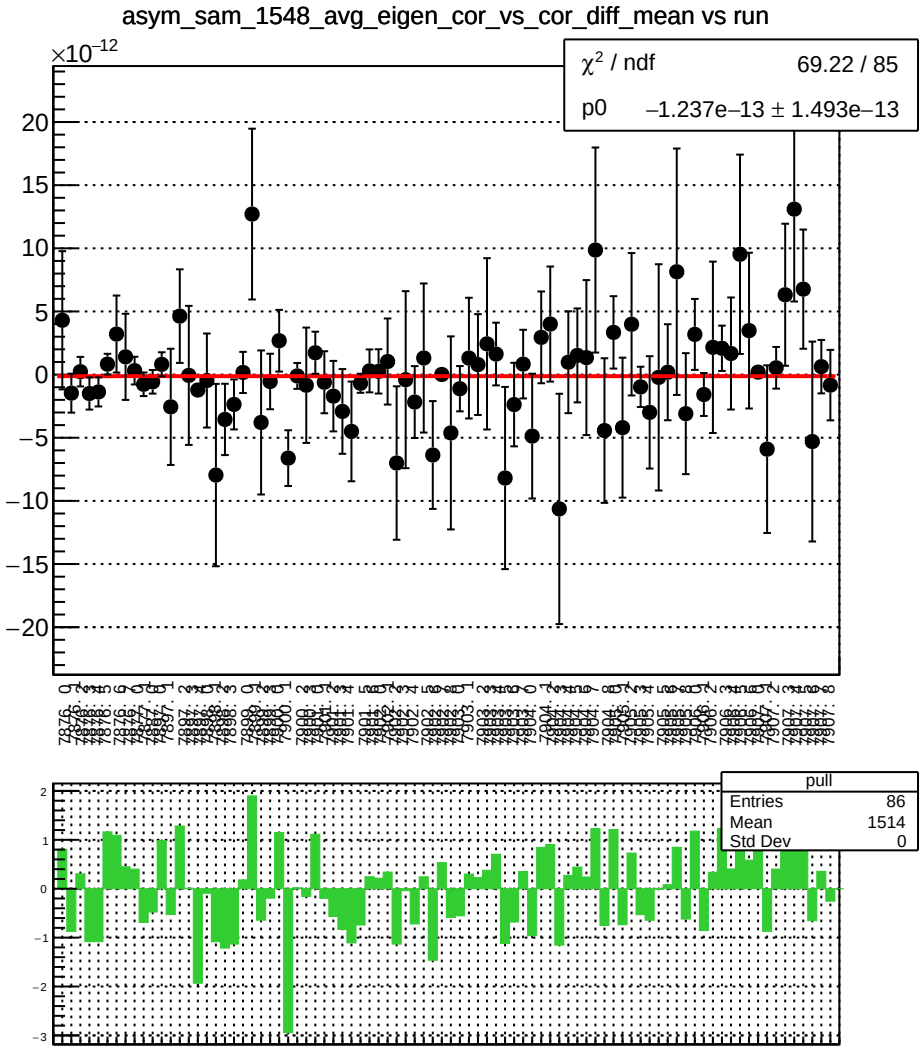

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.28e+05 / 85
p0 0.001766 ± 1.414e−06
0.006
0.005
0.004
0.003
0.002
0.001

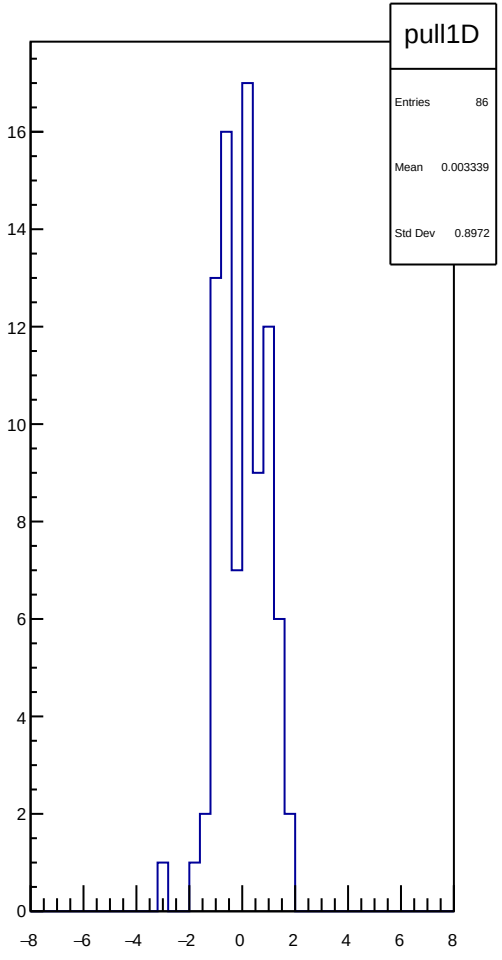

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.16 / 85
p0 −0.1561± 0.08279
pull
Entries 86
Mean 74.75
Std Dev 53.68
pull1D
Entries 86
Mean 0.01038
Std Dev 1.03

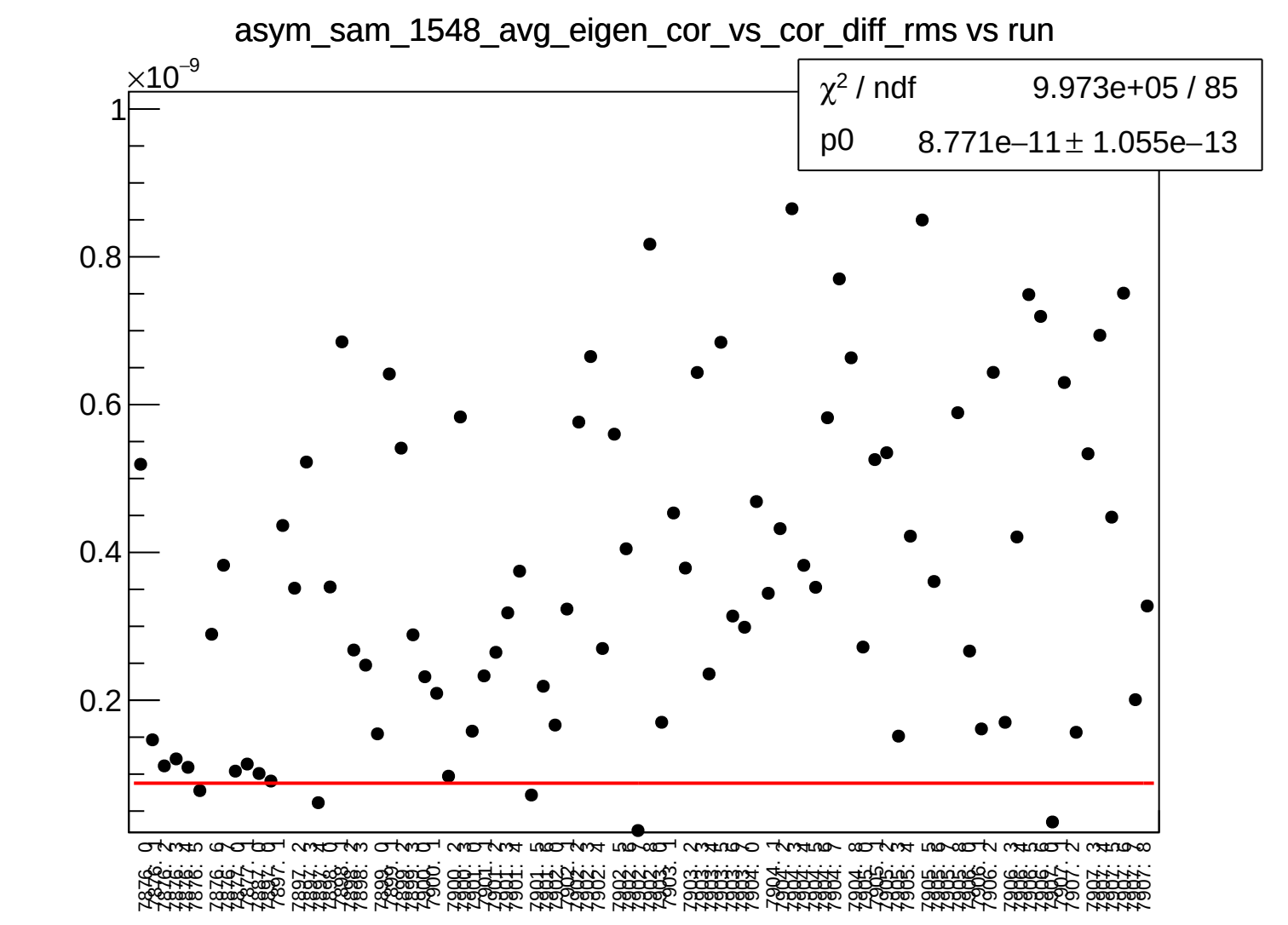

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.576e+04 / 85
p0 74.33 ± 0.05854
220
200
180
160
140
120
100
80
60
40

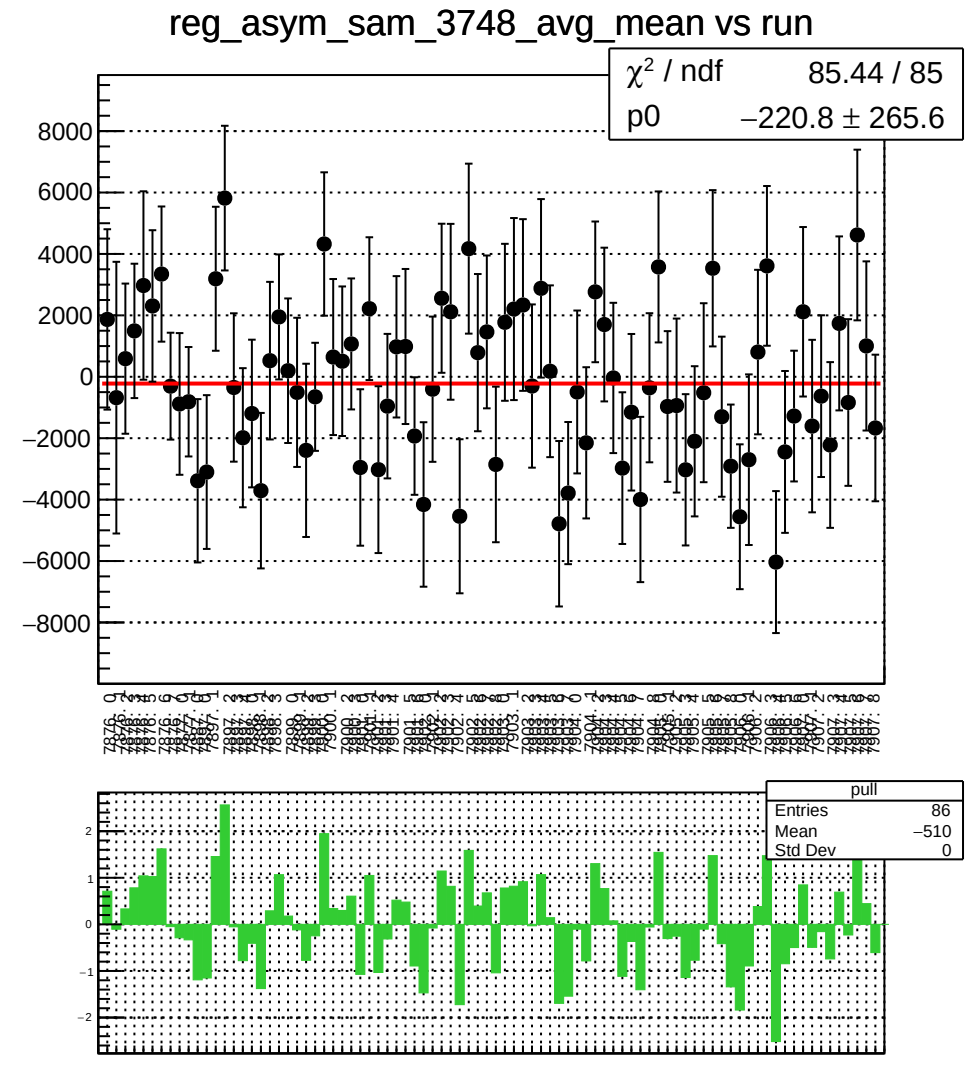

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.16 / 85
p0 −0.1561± 0.08279
pull
Entries 86
Mean 74.75
Std Dev 53.68
pull1D
Entries 86
Mean 0.01038
Std Dev 1.03

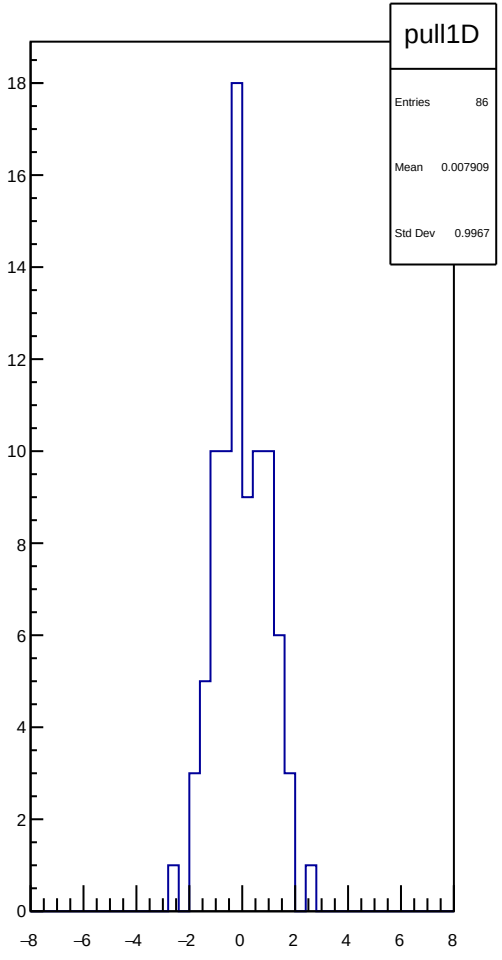

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.576e+04 / 85
p0 74.33 ± 0.05854
220
200
180
160
140
120
100
80
60
40

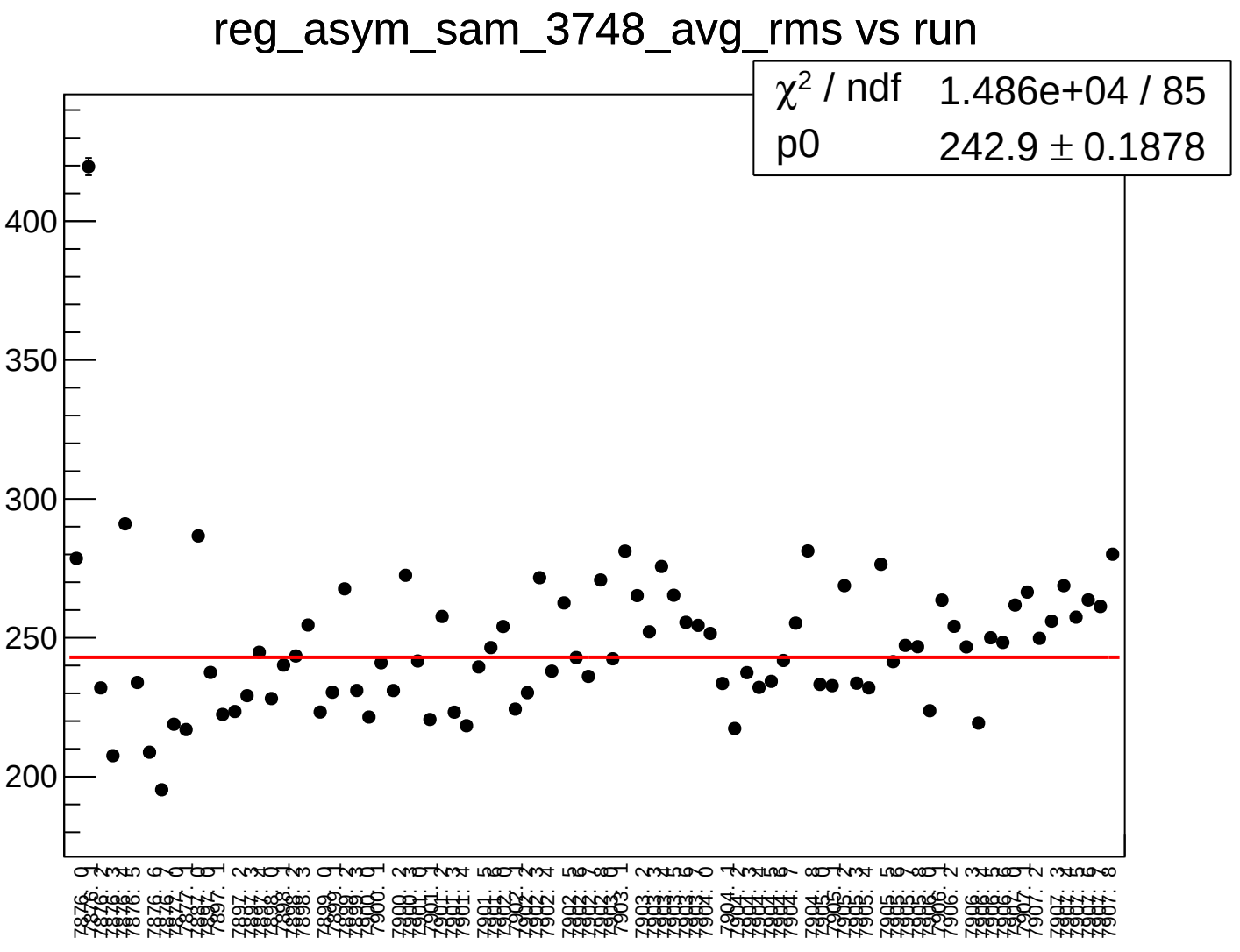

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.22 / 85
p0 −1.237e−13 ± 1.493e−13
pull
Entries 86
Mean 1514
Std Dev 0

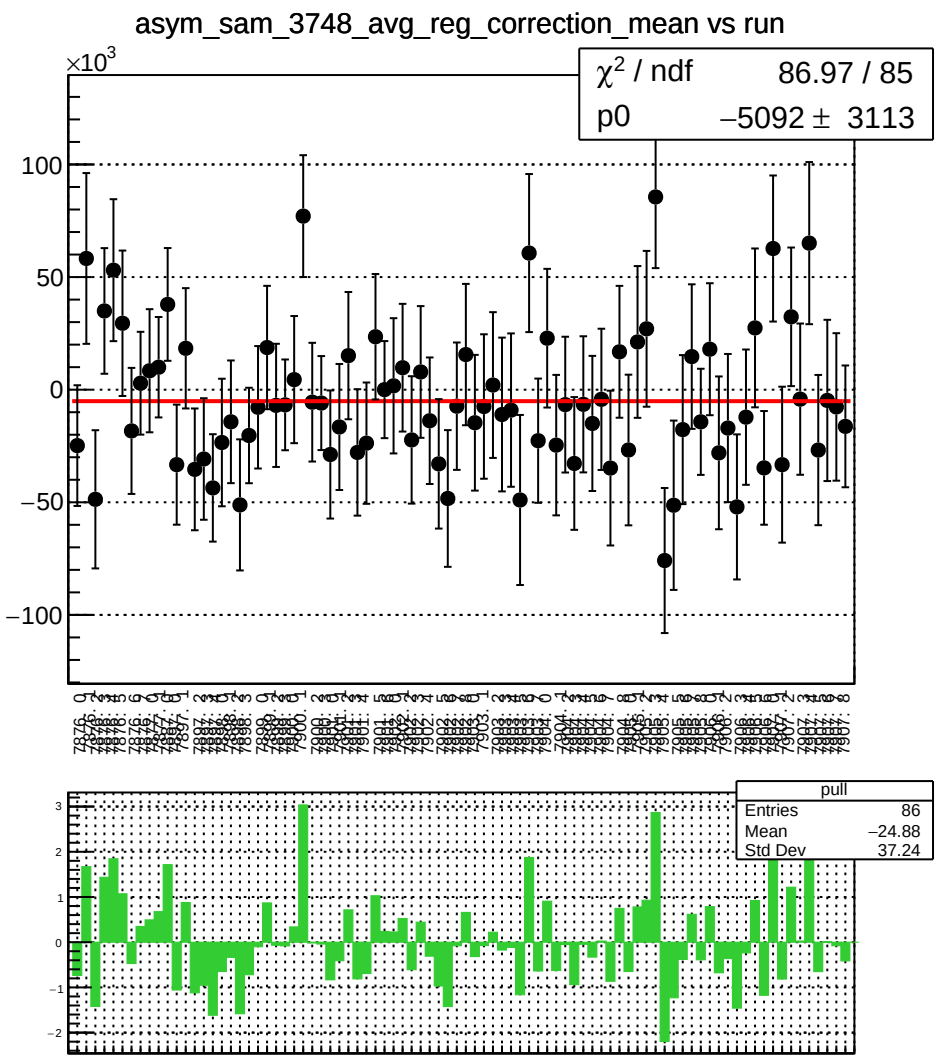

pull1D
Entries 86
Mean 0.003339
Std Dev 0.8972

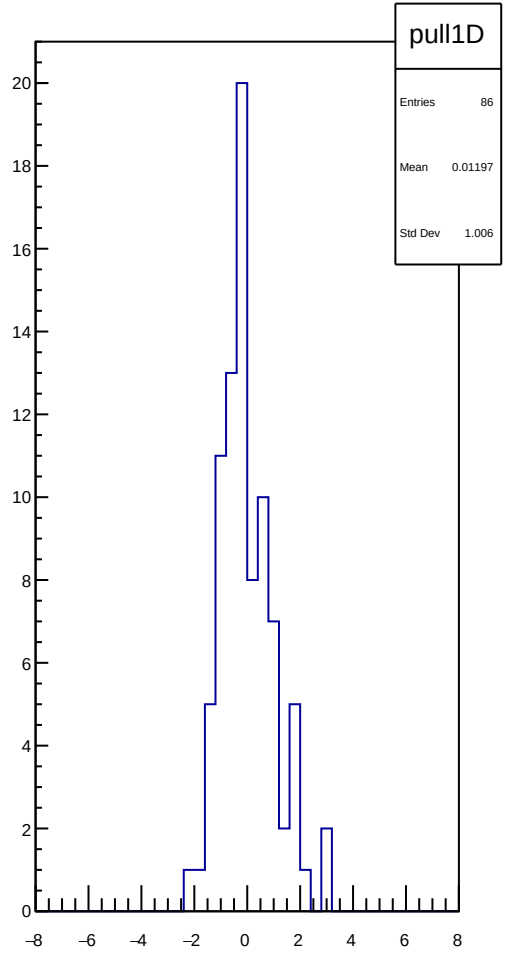

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1
0.8
0.6
0.4
0.2
χ² / ndf 9.973e+05 / 85
p0 8.771e−11 ± 1.055e−13


reg_asym_sam_3748_avg_mean vs run
χ² / ndf 85.44 / 85
p0 −220.8 ± 265.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −510
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.007909
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.486e+04 / 85
p0 242.9 ± 0.1878
400
350
300
250
200


asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.97 / 85
p0 −5092 ± 3113
100
50
0
−50
−100
pull
Entries 86
Mean −24.88
Std Dev 37.24
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.01197
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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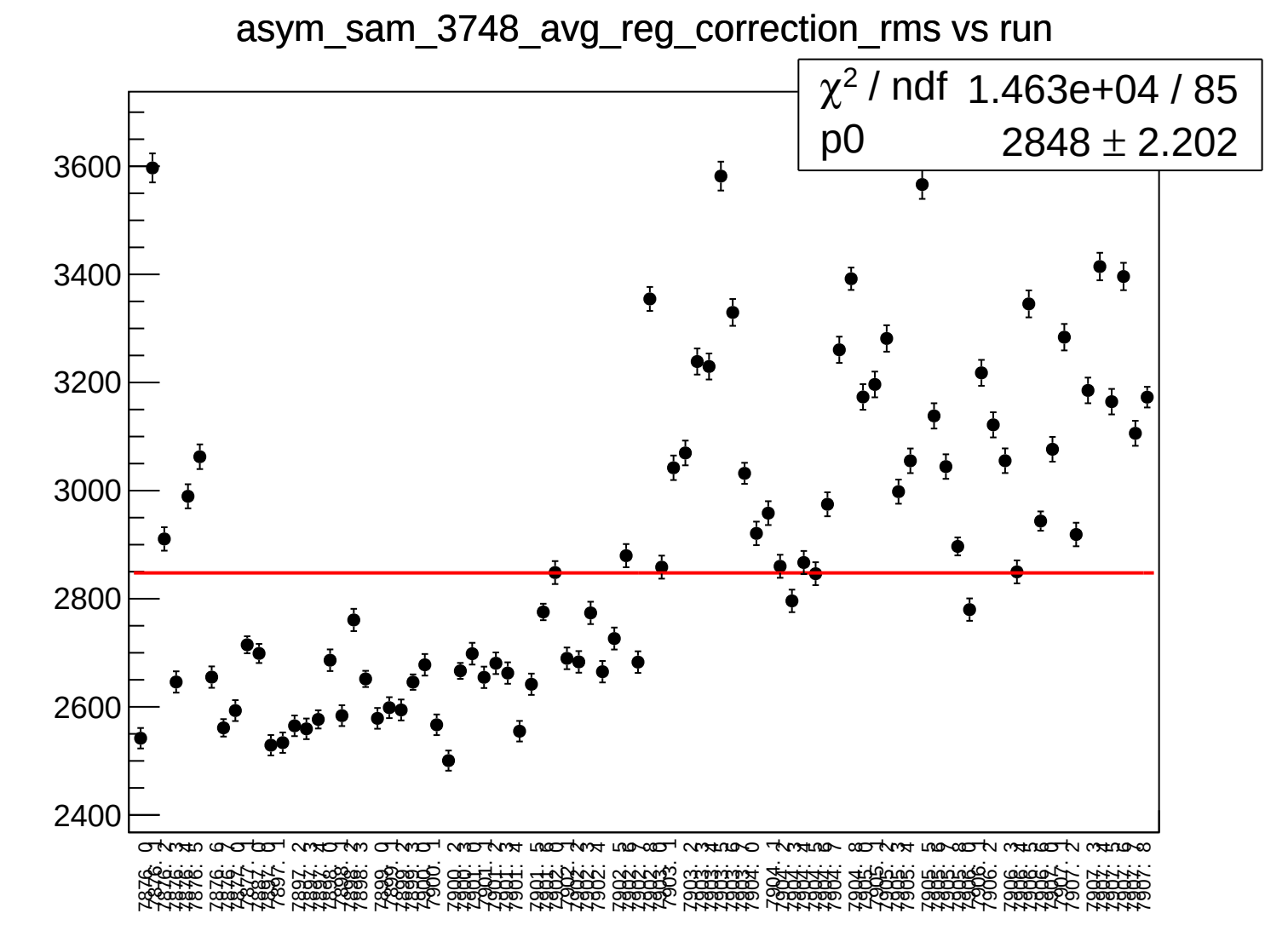
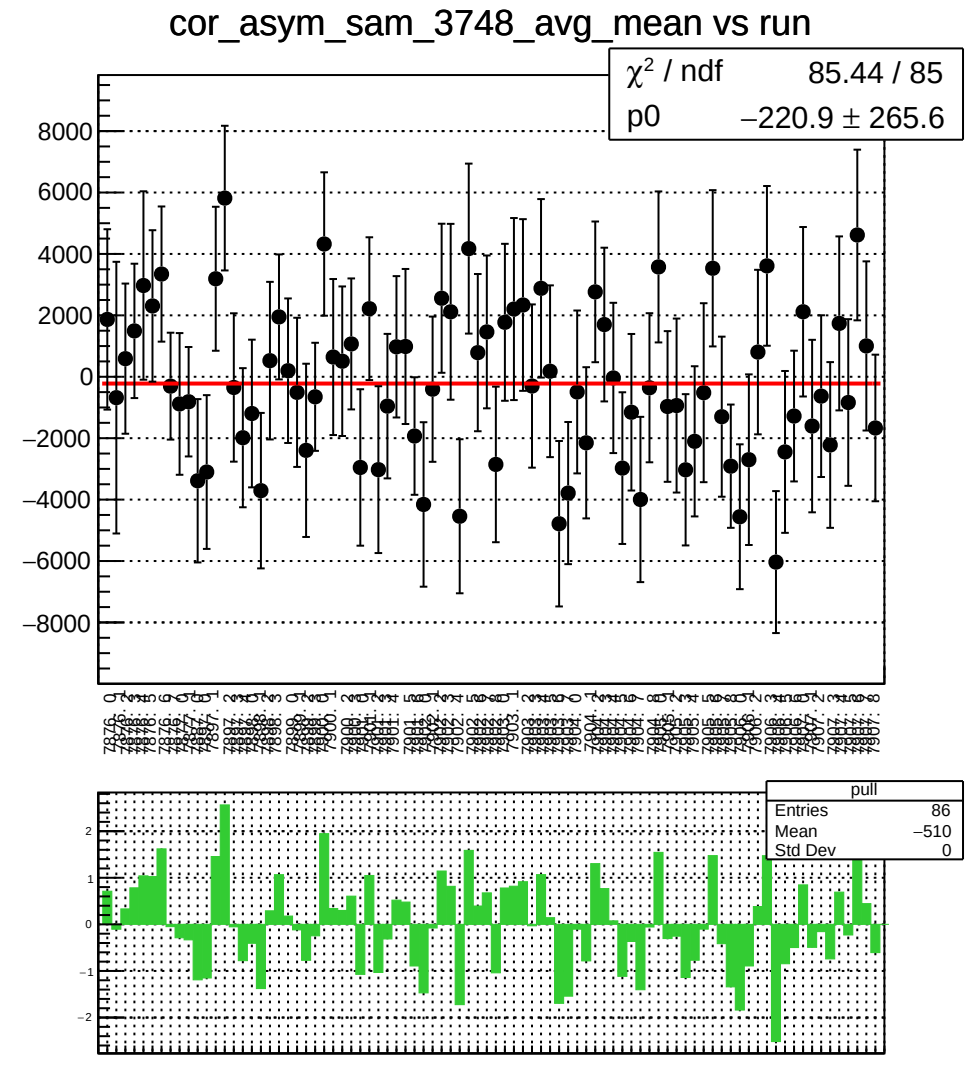
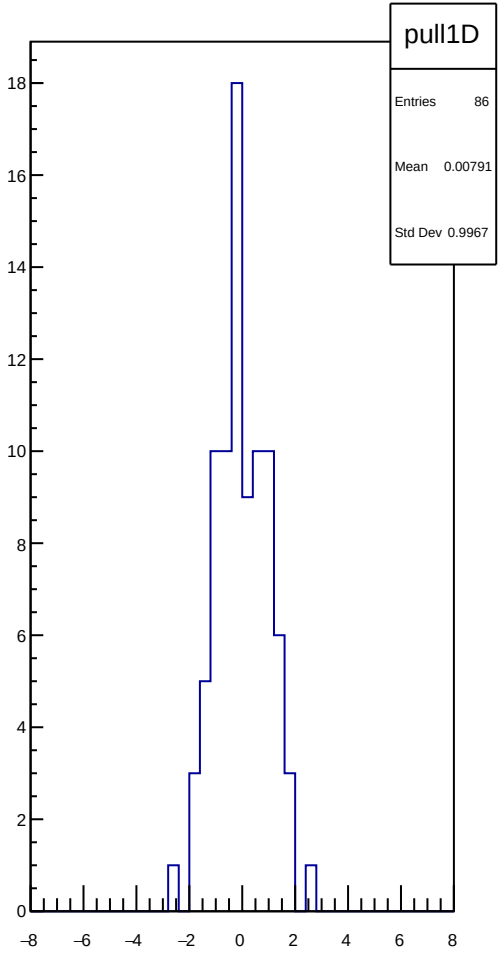
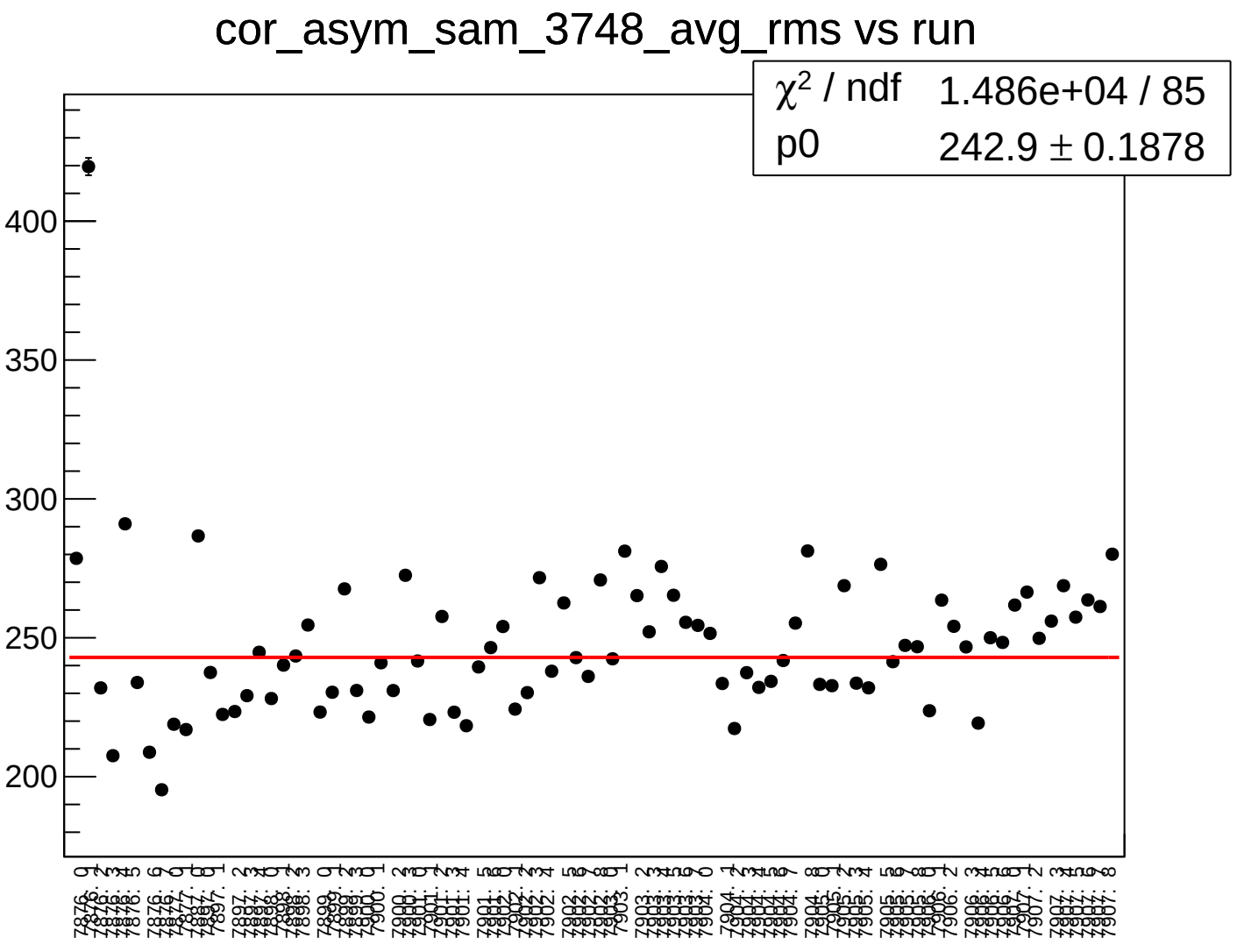
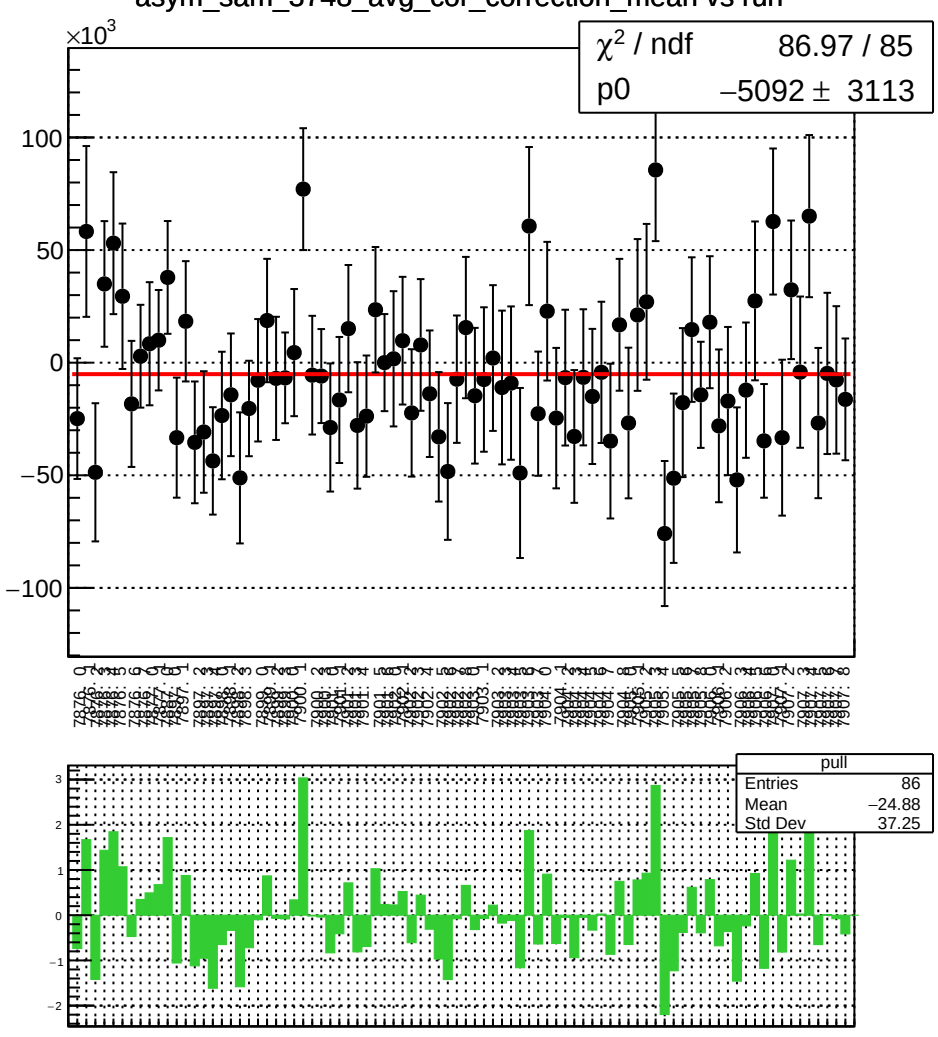
0
2
4
6
8

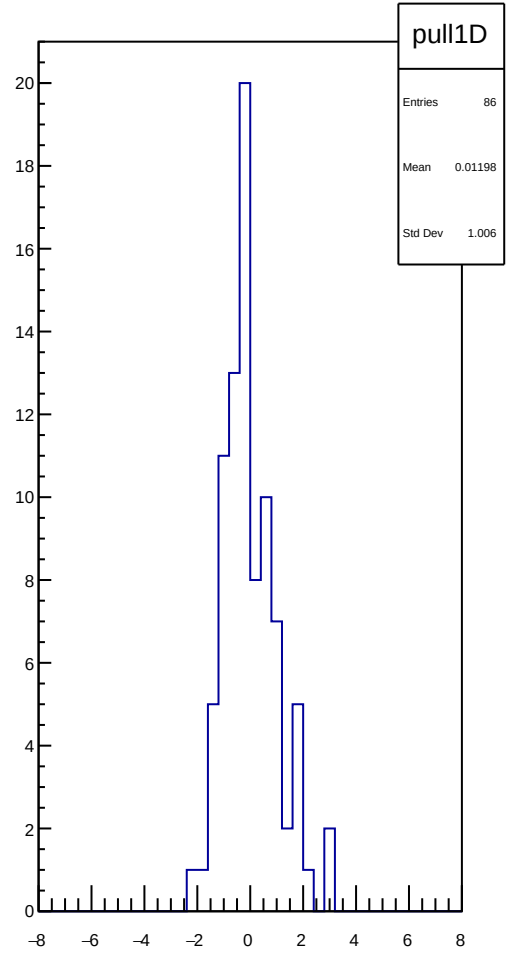

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.463e+04 / 85
p0 2848 ± 2.202
3600
3400
3200
3000
2800
2600
2400

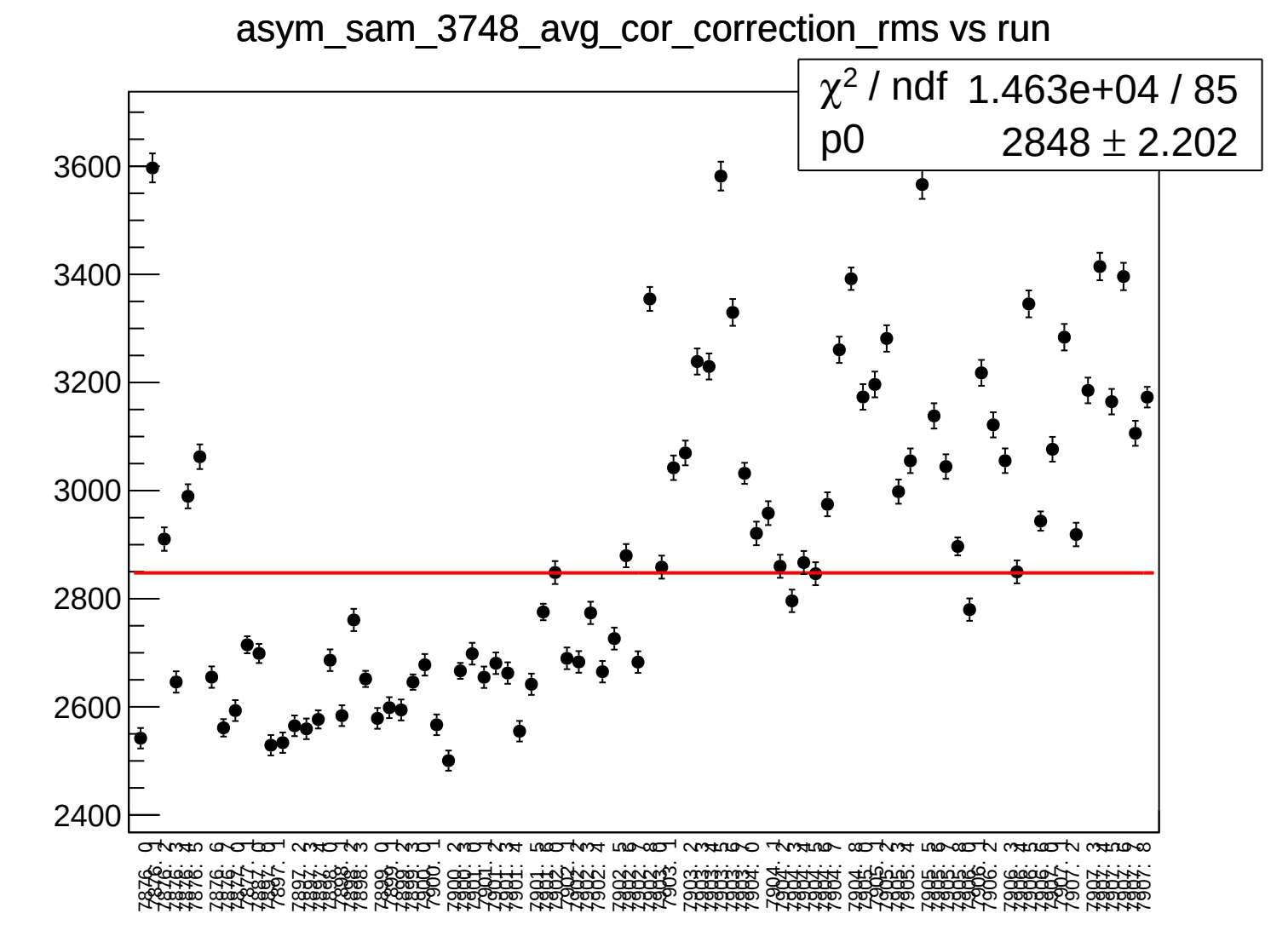

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 85.44 / 85
p0 −220.9 ± 265.6
pull
Entries 86
Mean −510
Std Dev 0

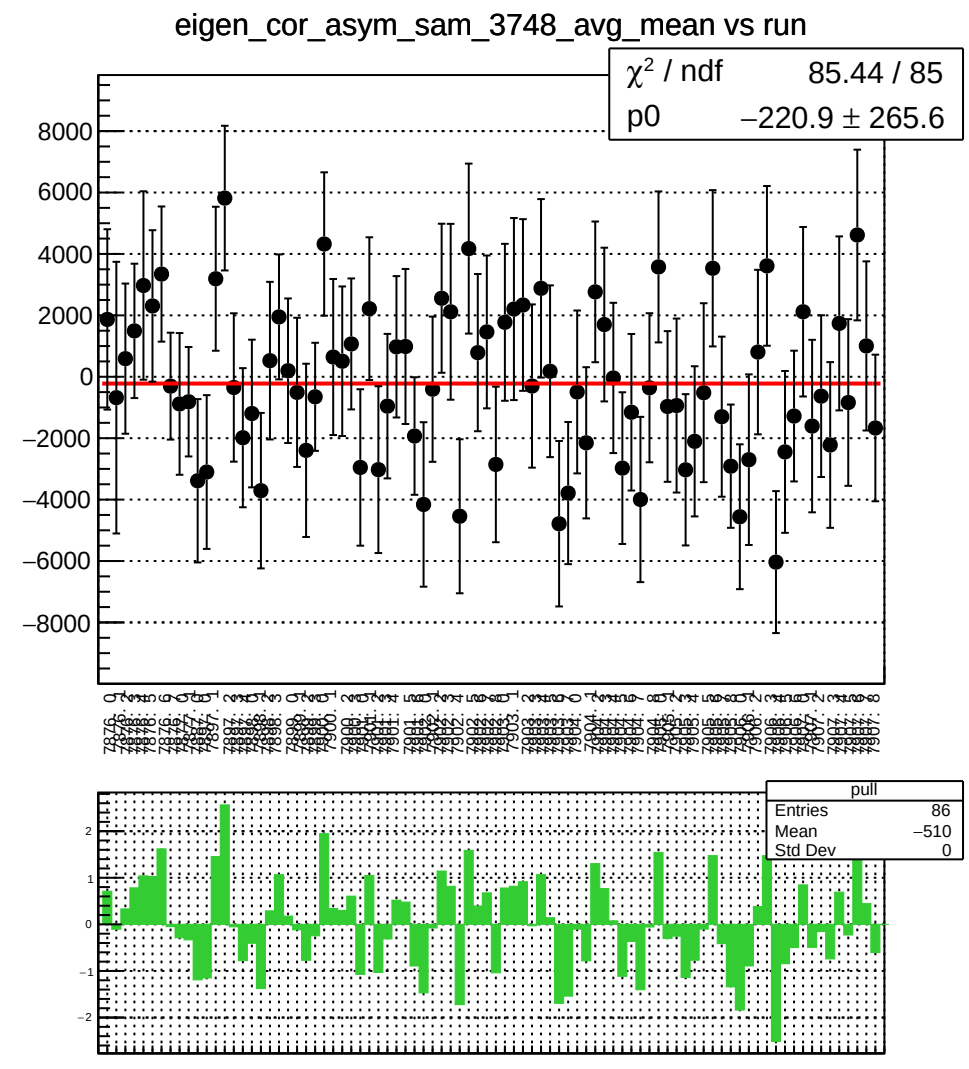

pull1D
Entries 86
Mean 0.00791
Std Dev 0.9967

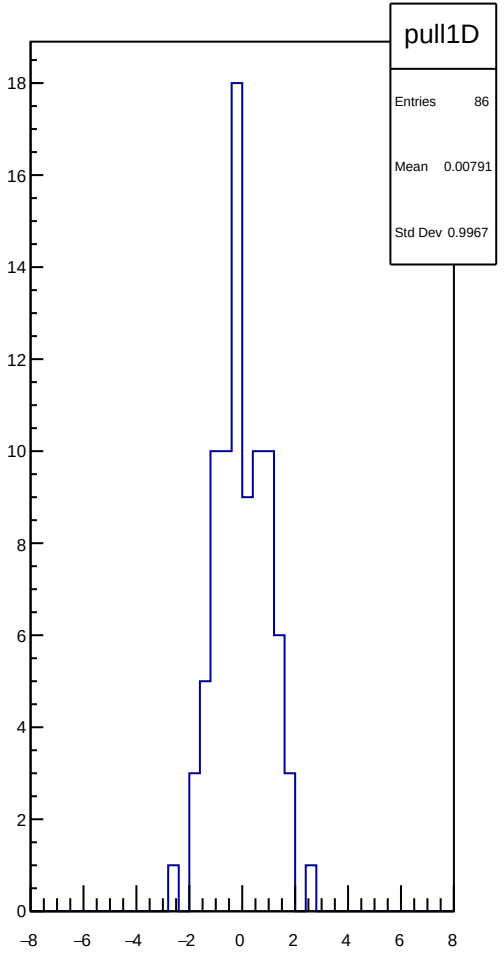

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.486e+04 / 85
p0 242.9 ± 0.1878
400
350
300
250
200

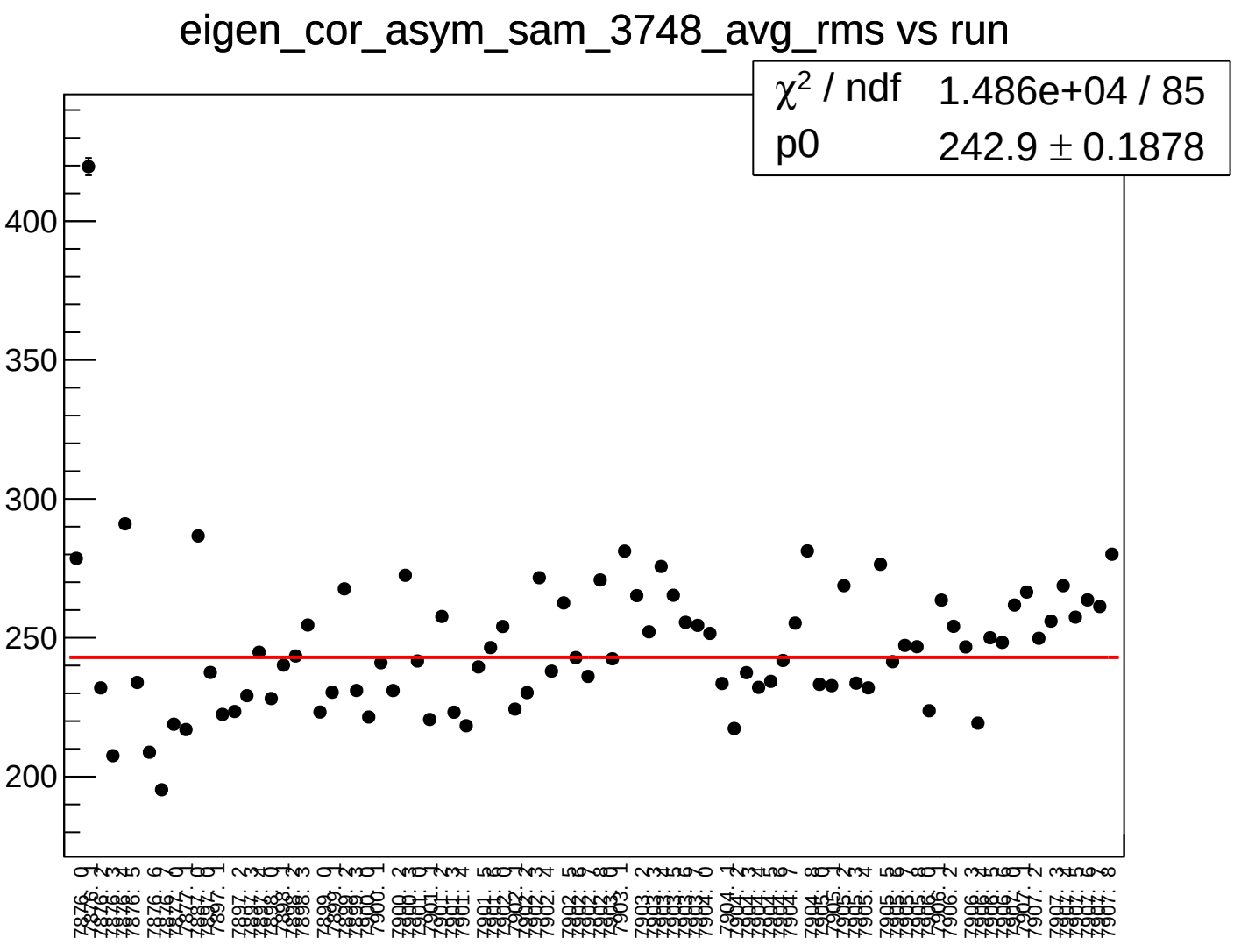

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.97 / 85
p0 −5092 ± 3113
100
50
0
−50
−100
pull
Entries 86
Mean −24.88
Std Dev 37.25
3
2
1
0
−1
−2

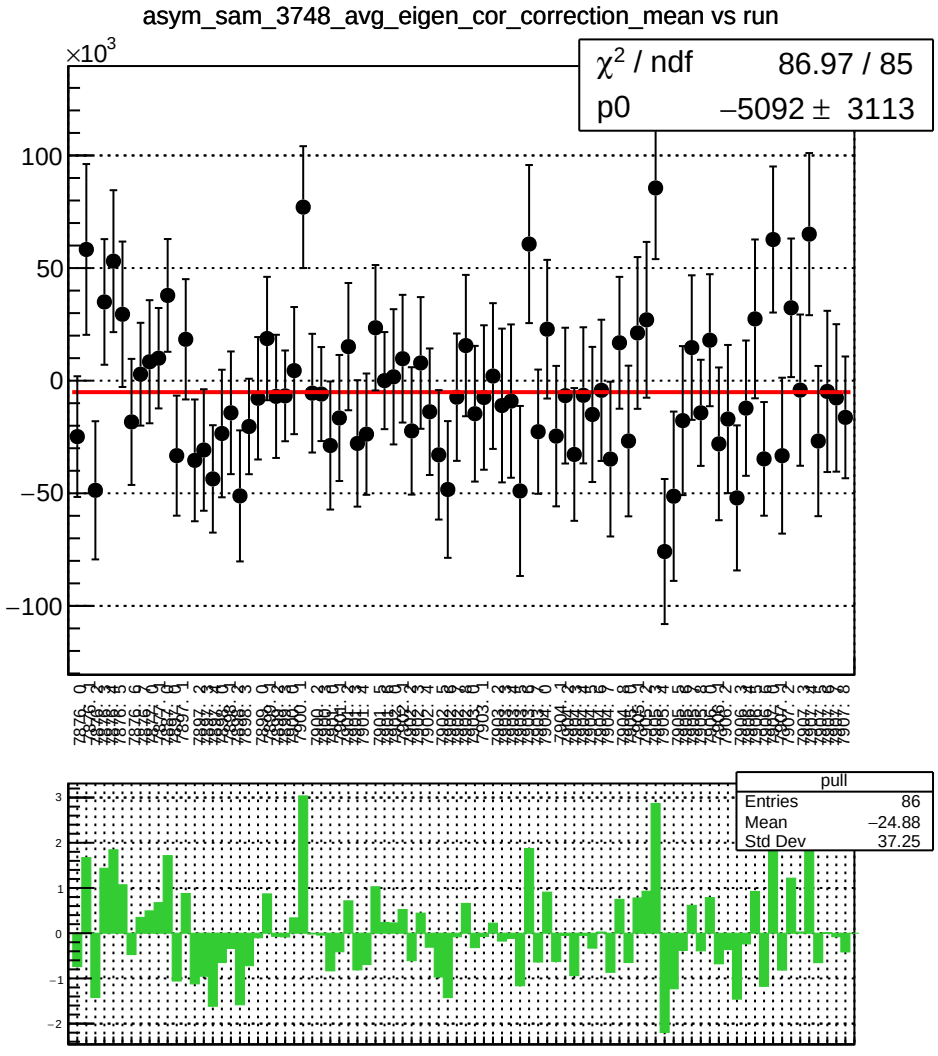

pull1D
Entries 86
Mean 0.01198
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

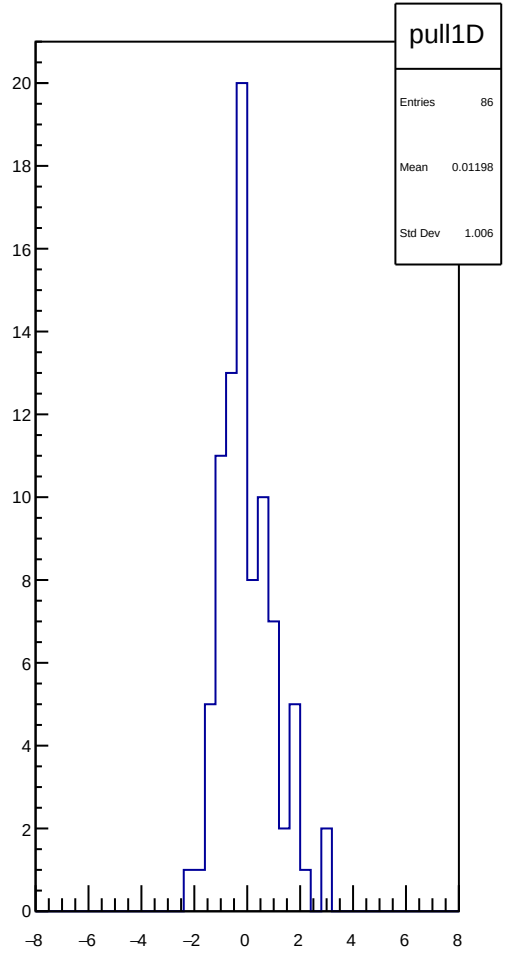

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.463e+04 / 85
p0 2848 ± 2.202
3600
3400
3200
3000
2800
2600
2400

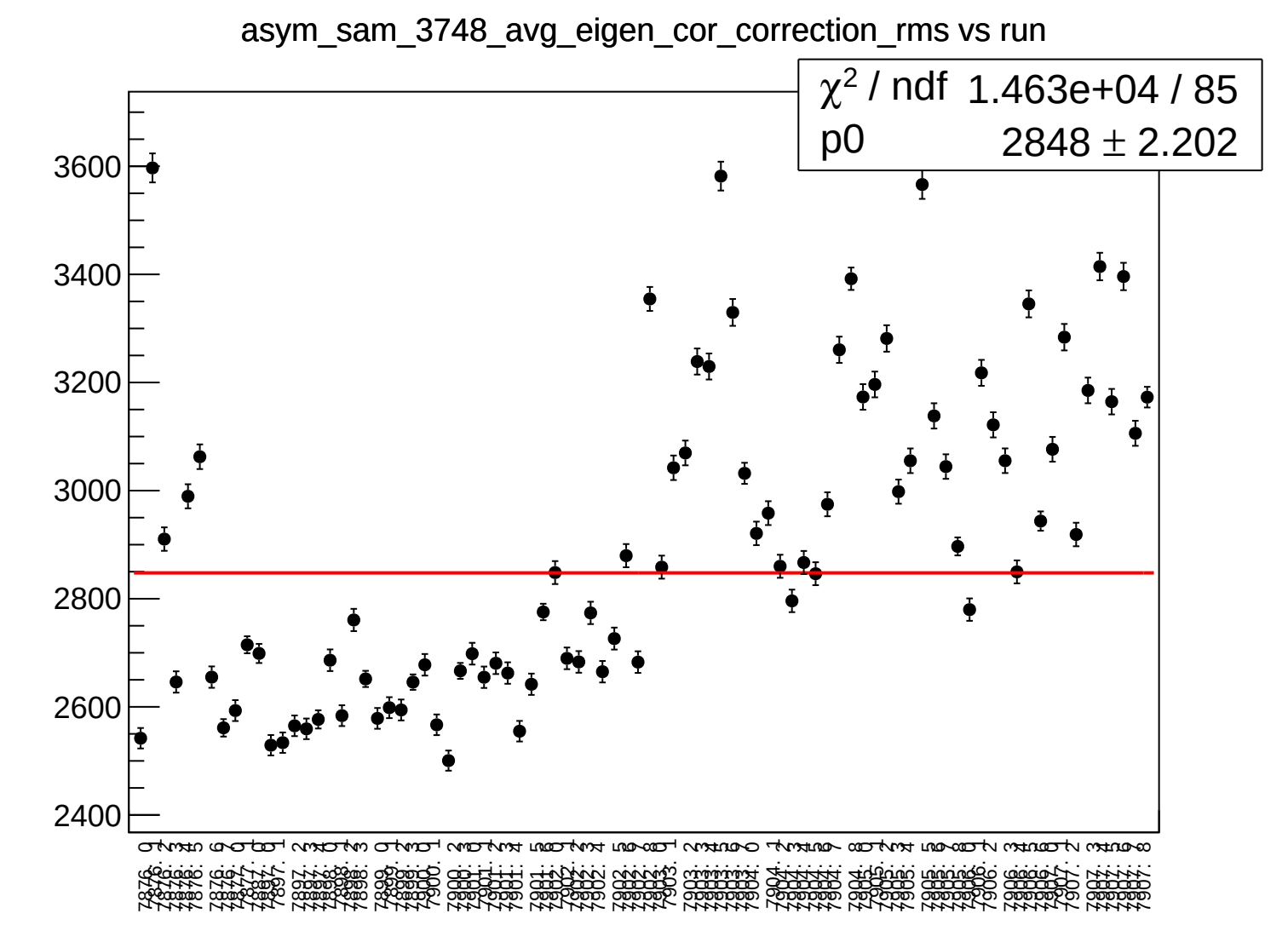

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 85.44 / 85
p0 −220.9 ± 265.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −510
Std Dev 0
2
1
0
−1
−2

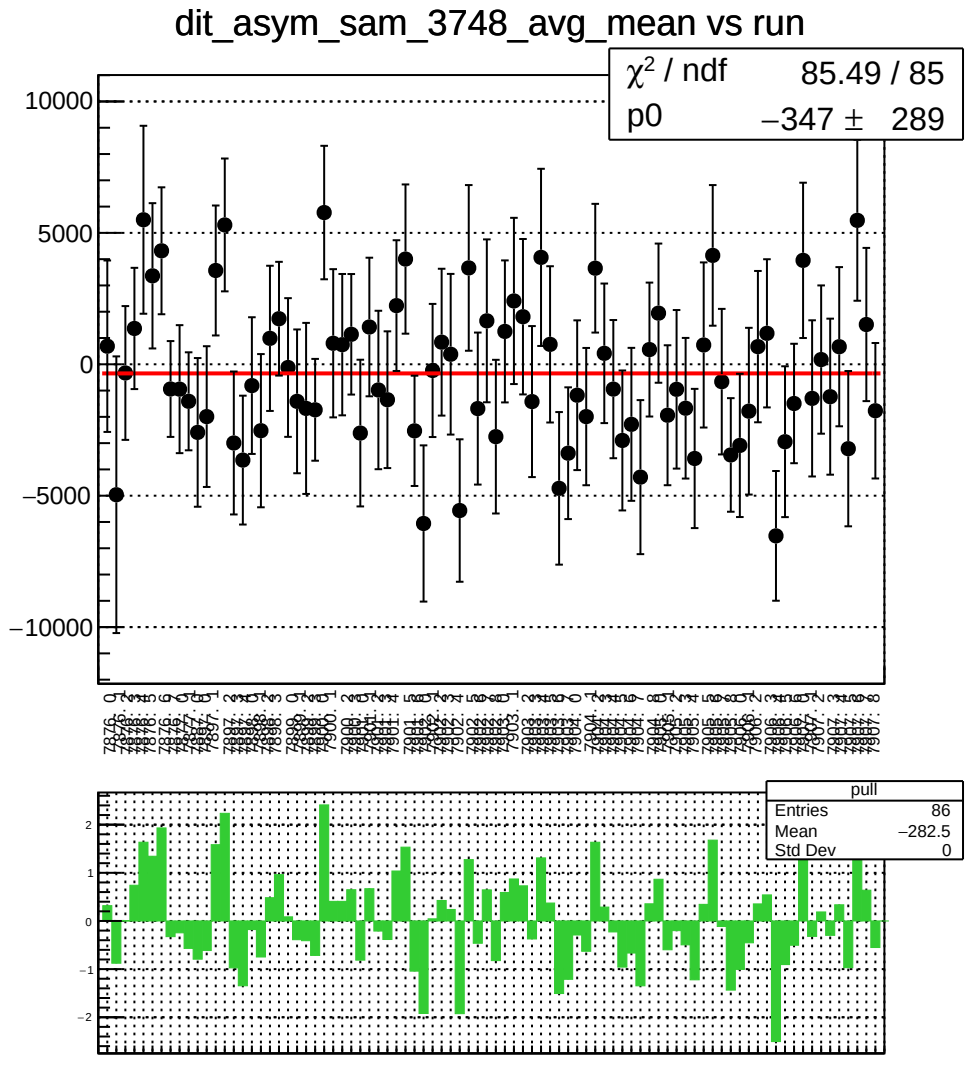

pull1D
Entries 86
Mean 0.00791
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

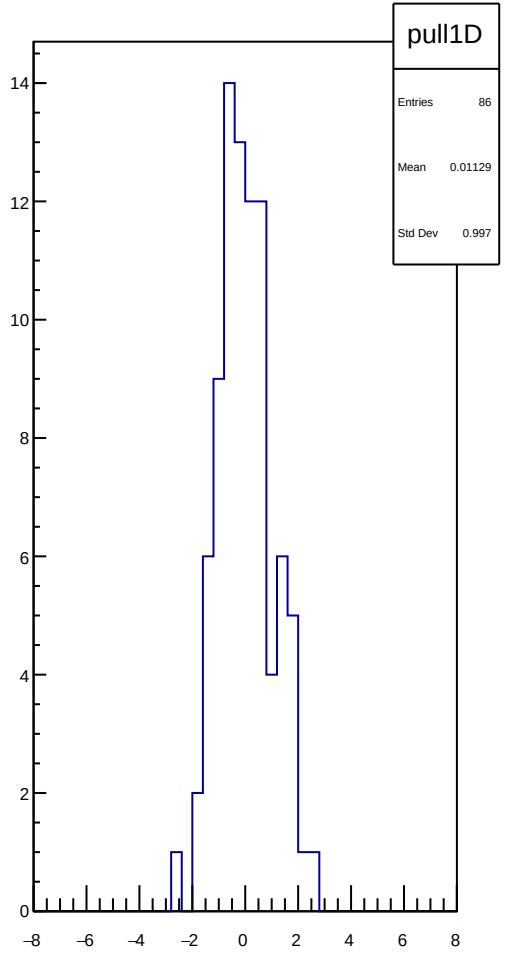

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.486e+04 / 85
p0 242.9 ± 0.1878
400
350
300
250
200

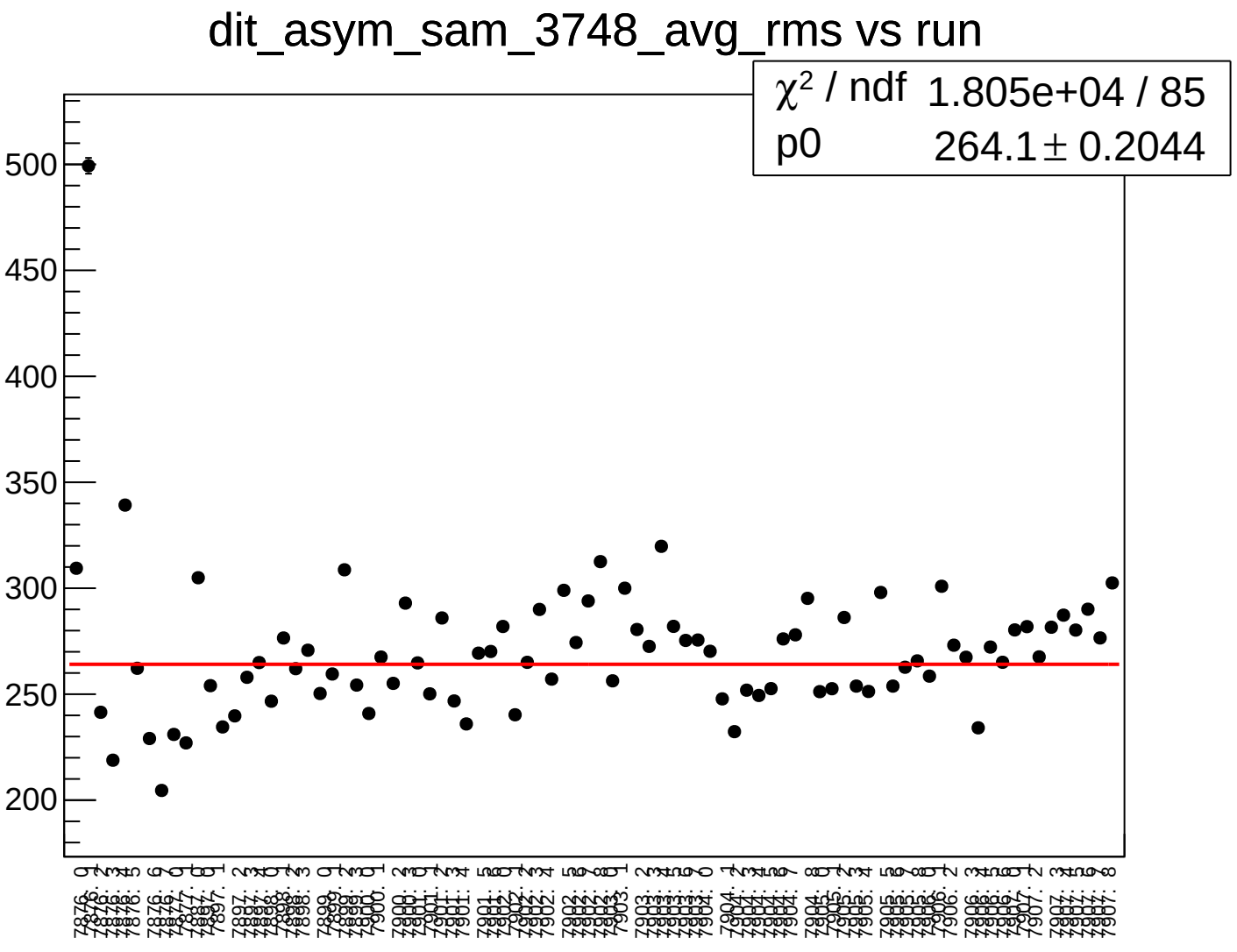

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.97 / 85
p0 −5092 ± 3113
100
50
0
−50
−100
pull
Entries 86
Mean −24.88
Std Dev 37.25
3
2
1
0
−1
−2

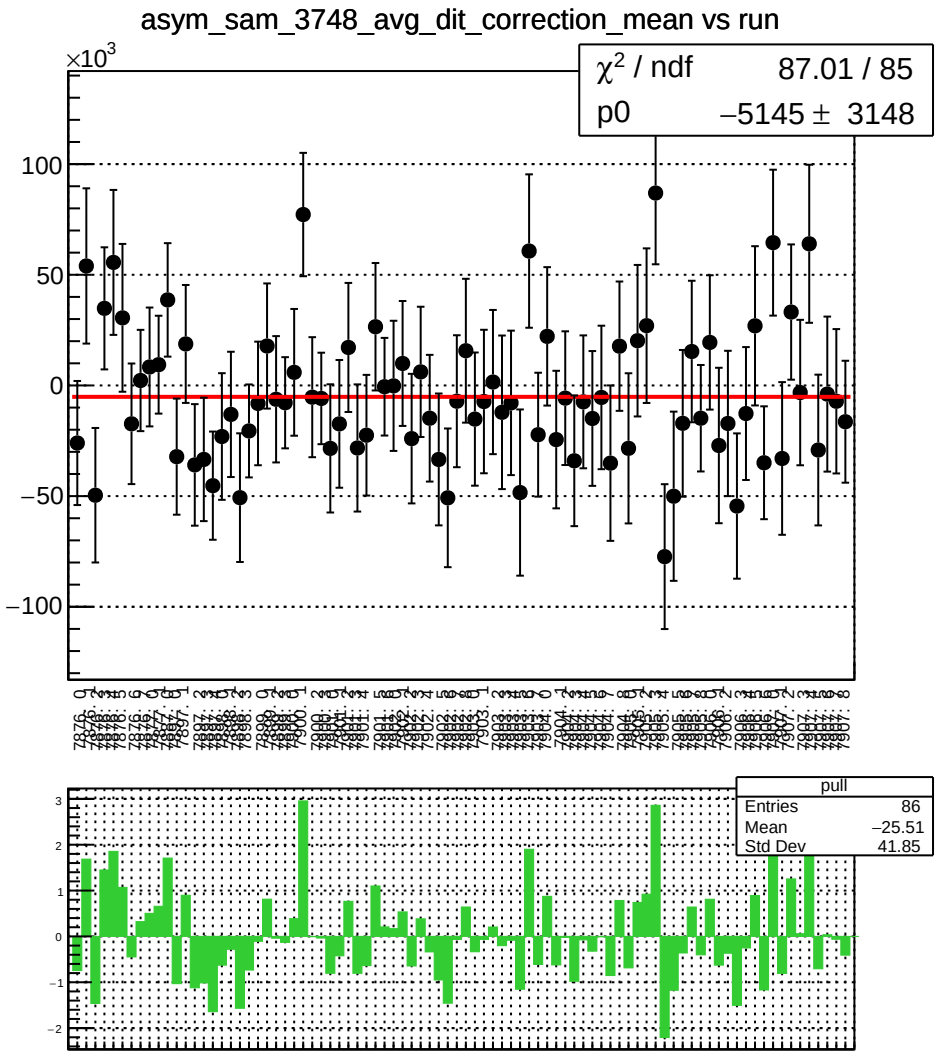

pull1D
Entries 86
Mean 0.01198
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

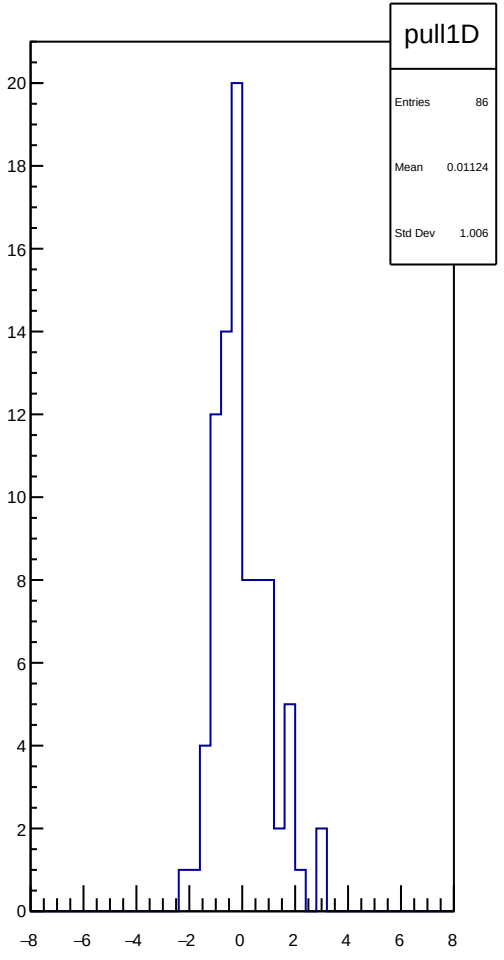

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.463e+04 / 85
p0 2848 ± 2.202
3600
3400
3200
3000
2800
2600
2400

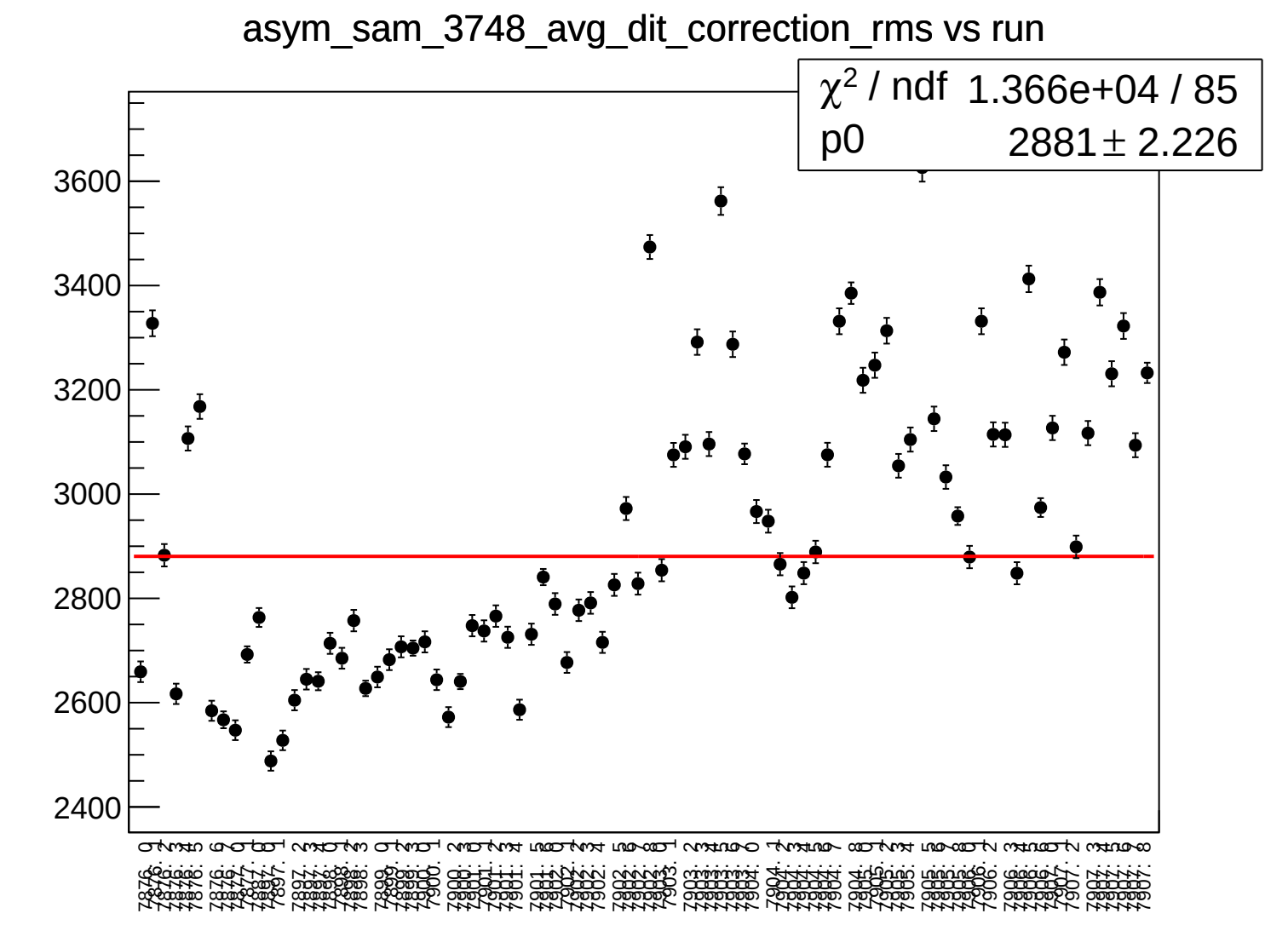

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 85.49 / 85
p0 −347 ± 289
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −282.5
Std Dev 0
2
1
0
−1
−2

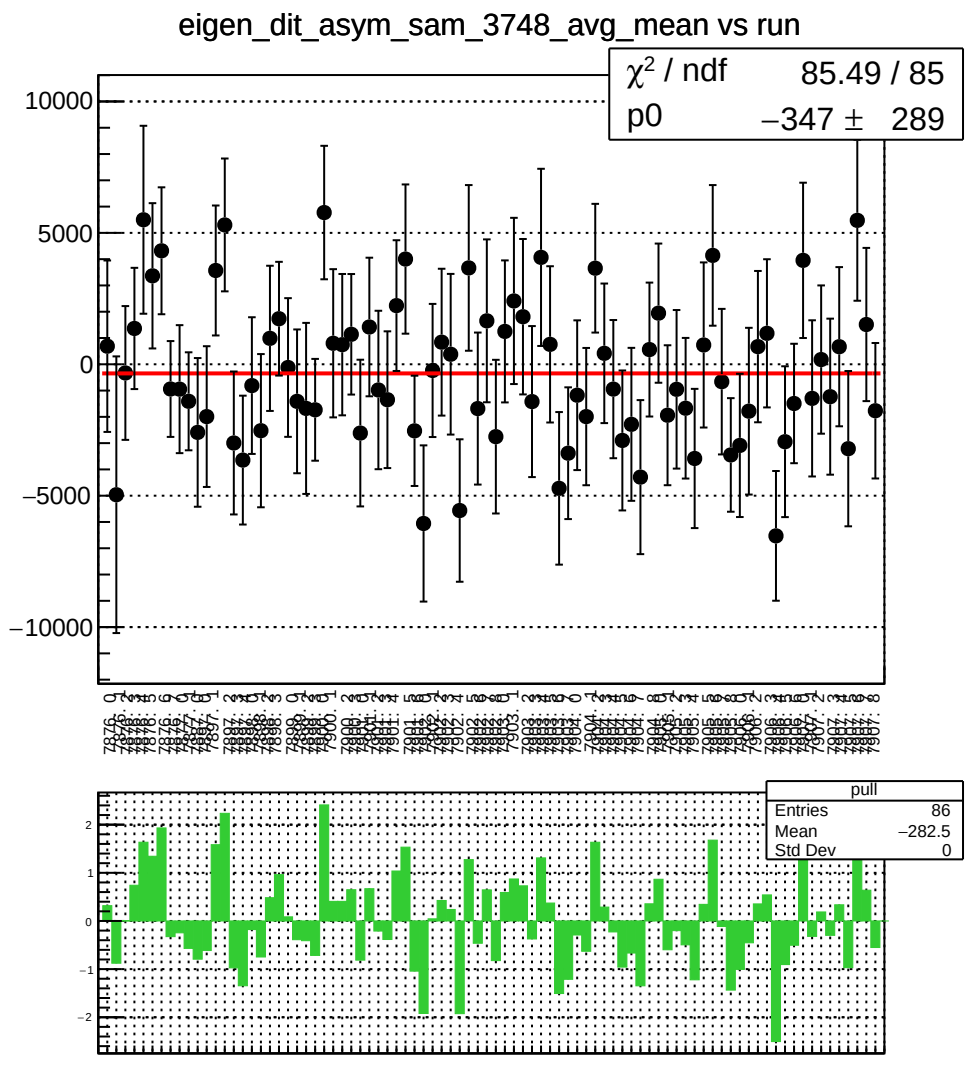

pull1D
Entries 86
Mean 0.01129
Std Dev 0.997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

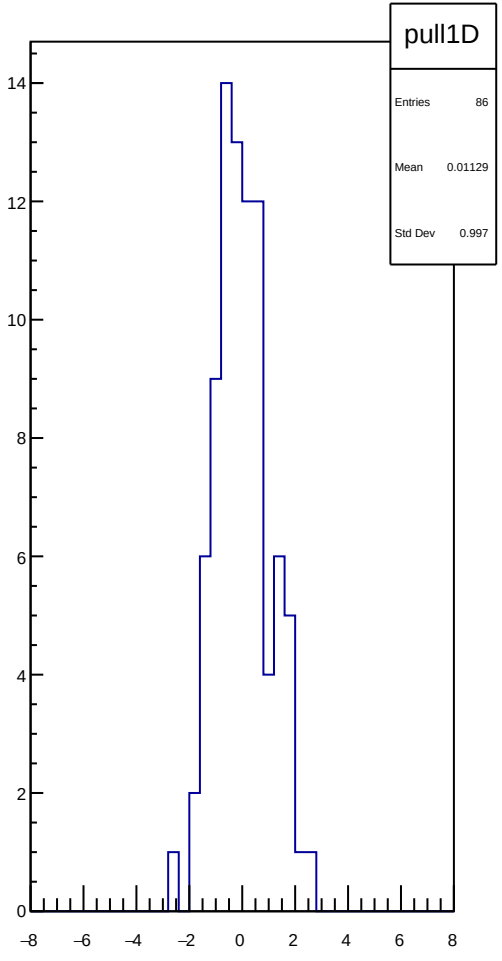

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.805e+04 / 85
p0 264.1 ± 0.2044
500
450
400
350
300
250
200

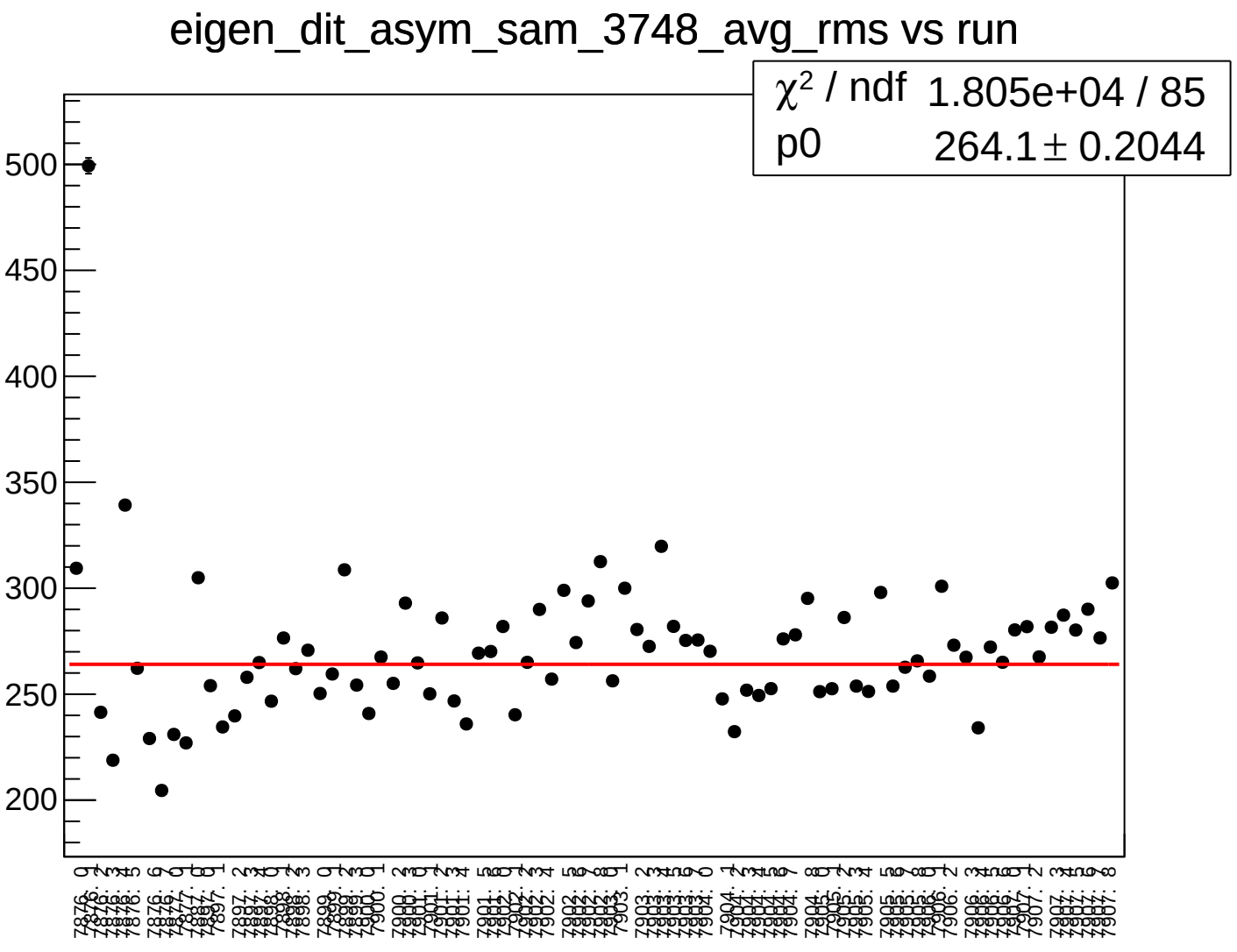

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.01 / 85
p0 −5145 ± 3148
100
50
0
−50
−100
pull
Entries 86
Mean −25.51
Std Dev 41.85
3
2
1
0
−1
−2

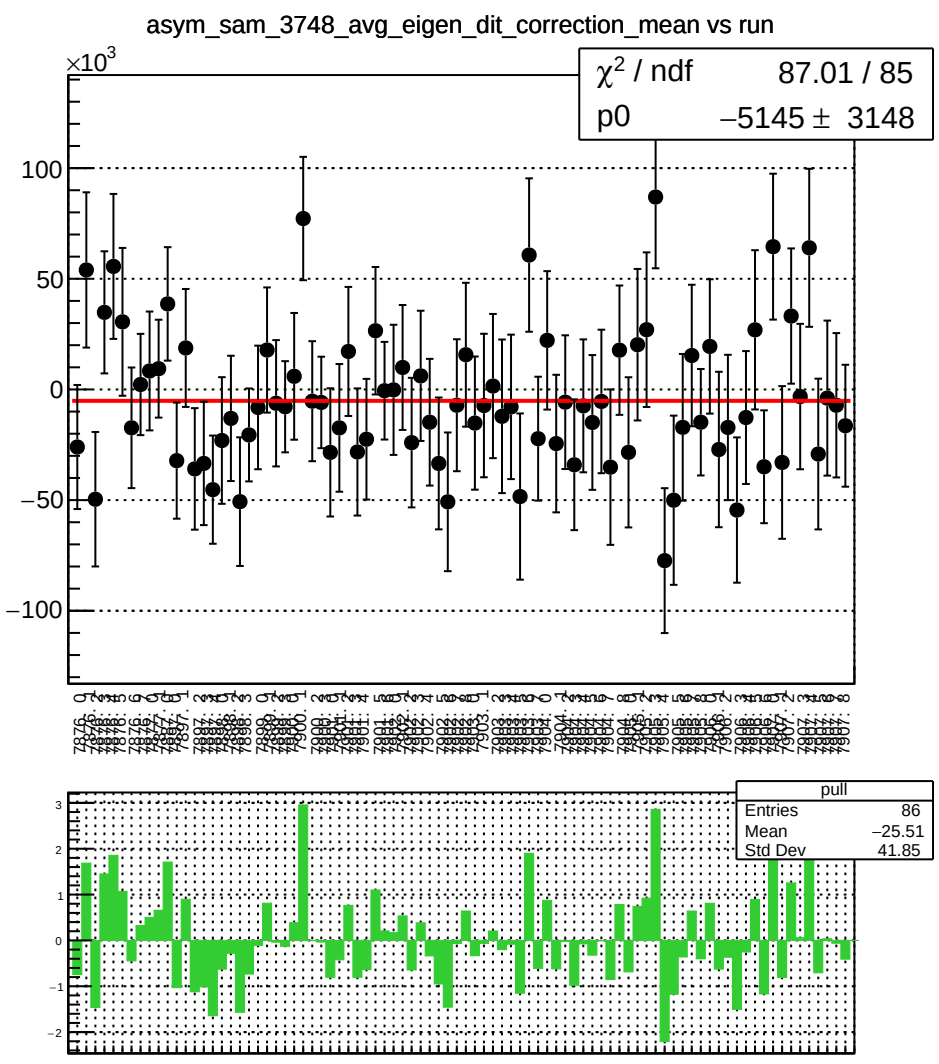

pull1D
Entries 86
Mean 0.01124
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

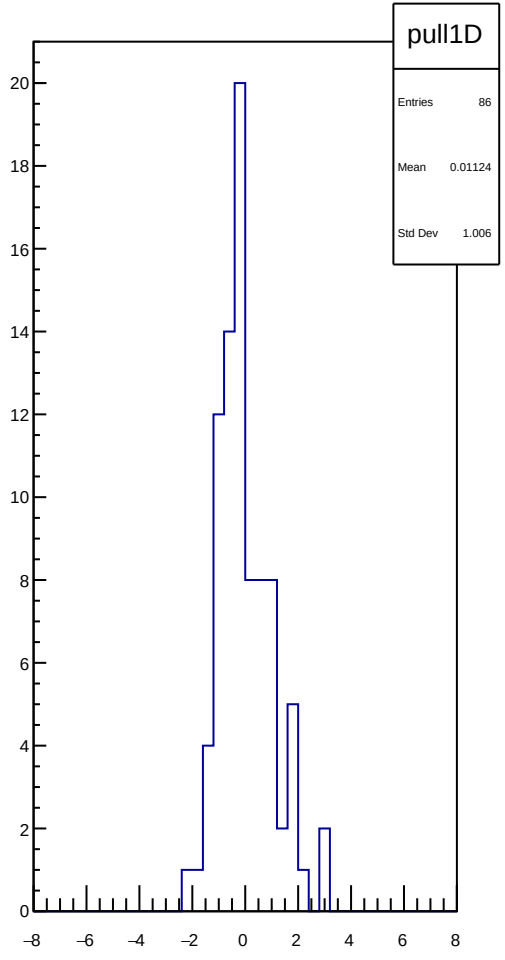

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.366e+04 / 85
p0 2881 ± 2.226
3600
3400
3200
3000
2800
2600
2400

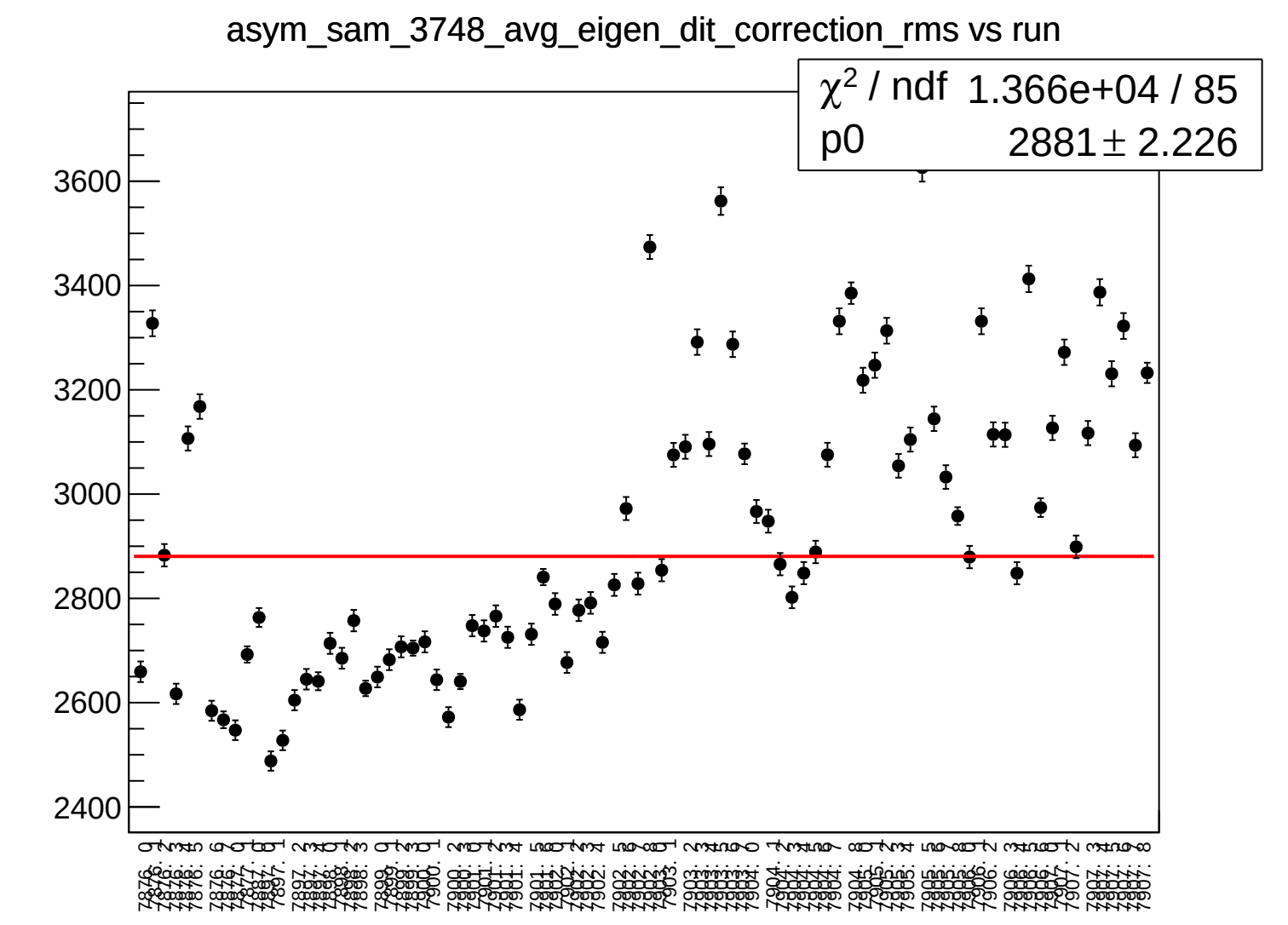

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 85.49 / 85
p0 −347 ± 289
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −282.5
Std Dev 0
2
1
0
−1
−2

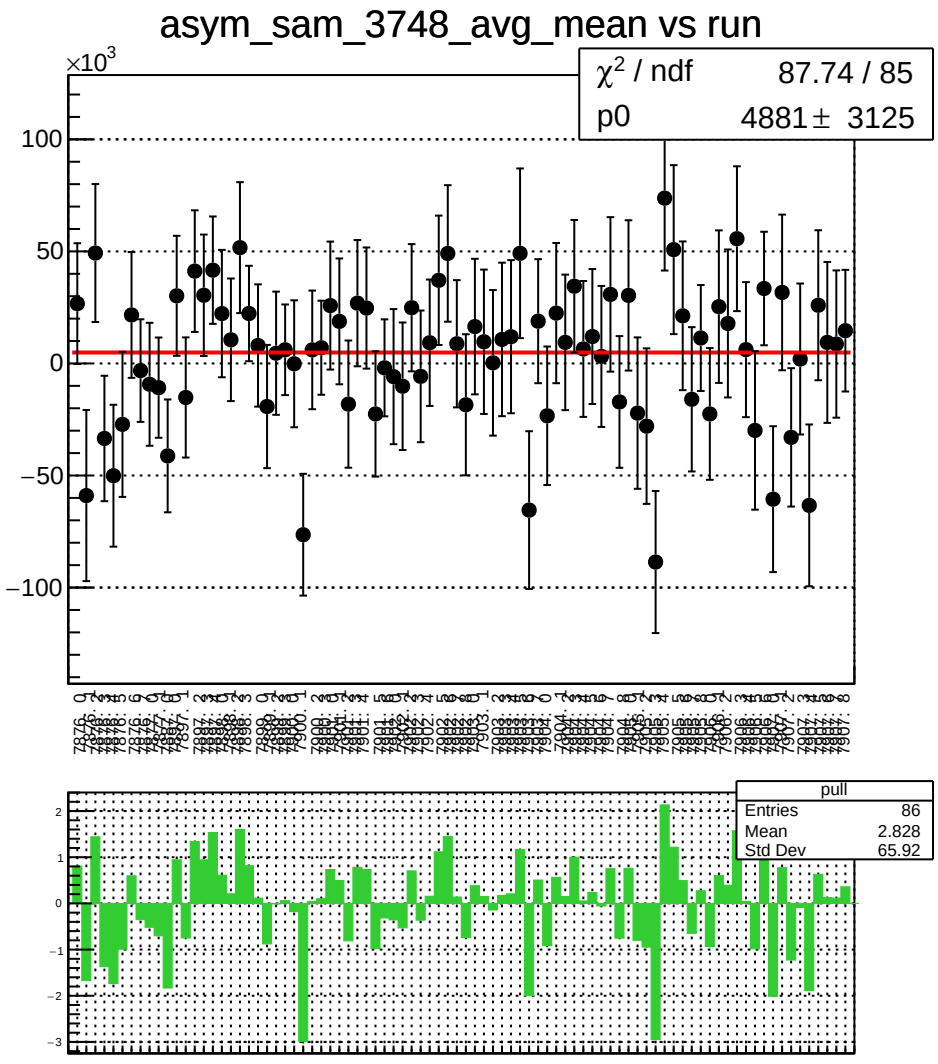

pull1D
Entries 86
Mean 0.01129
Std Dev 0.997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

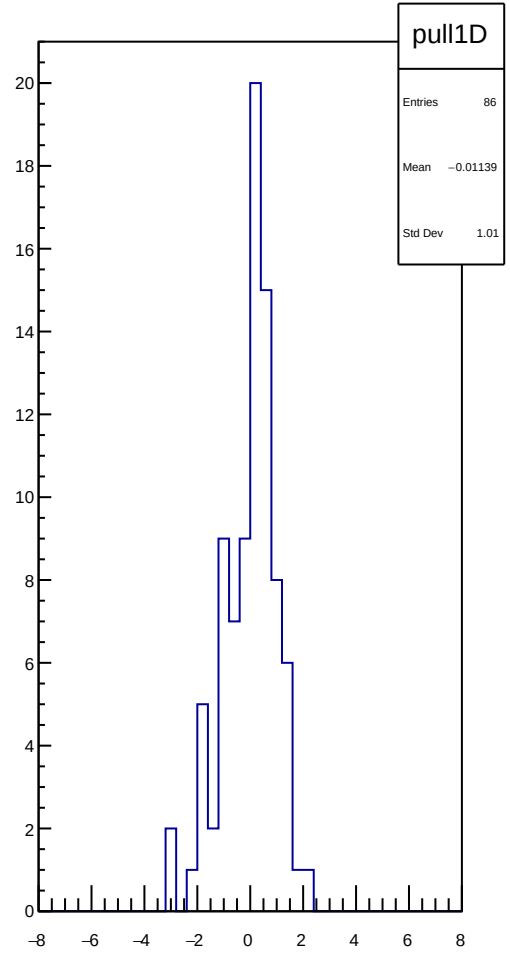

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.805e+04 / 85
p0 264.1 ± 0.2044
500
450
400
350
300
250
200

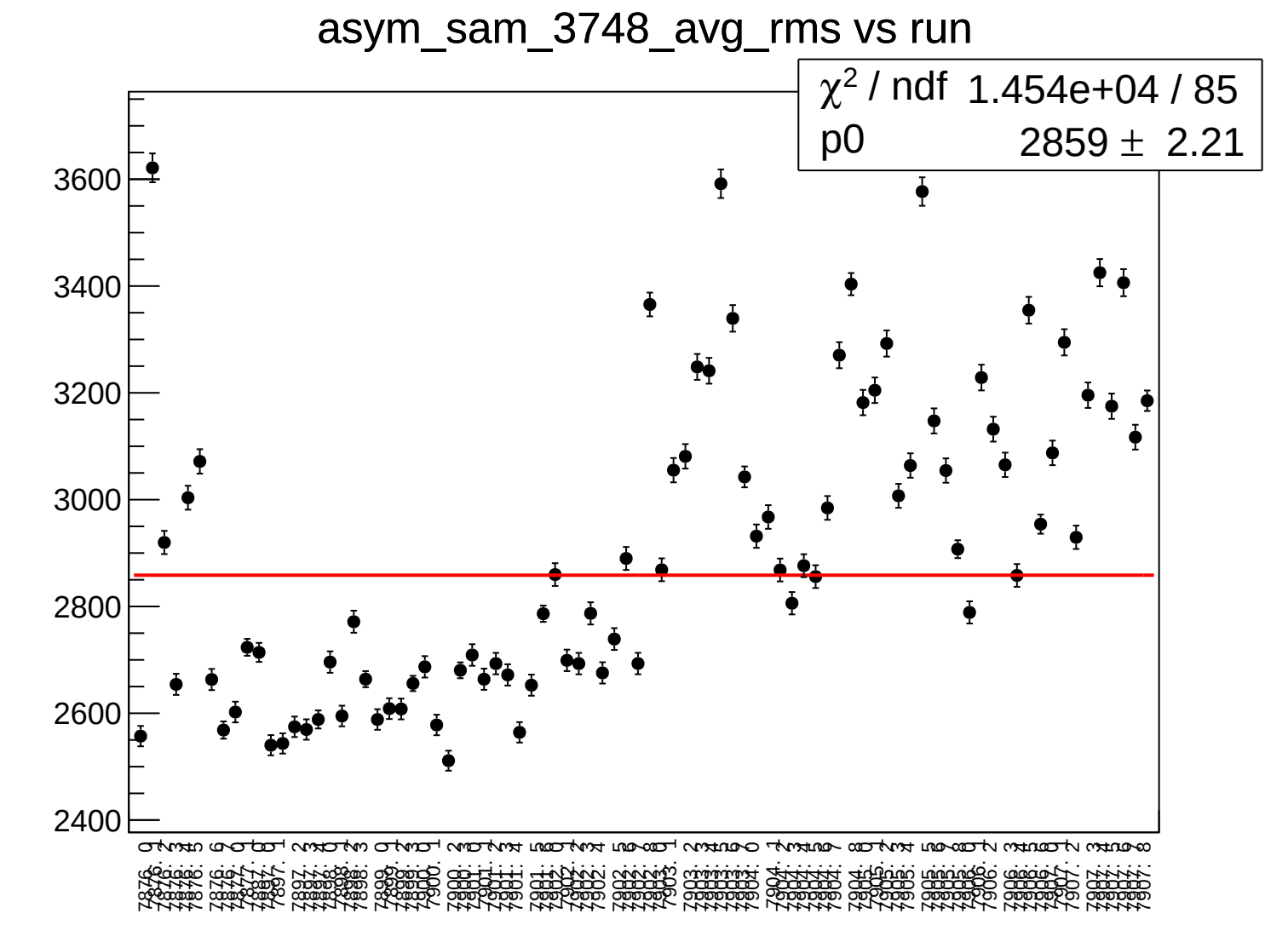

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.01 / 85
p0 −5145 ± 3148
100
50
0
−50
−100
pull
Entries 86
Mean −25.51
Std Dev 41.85
3
2
1
0
−1
−2

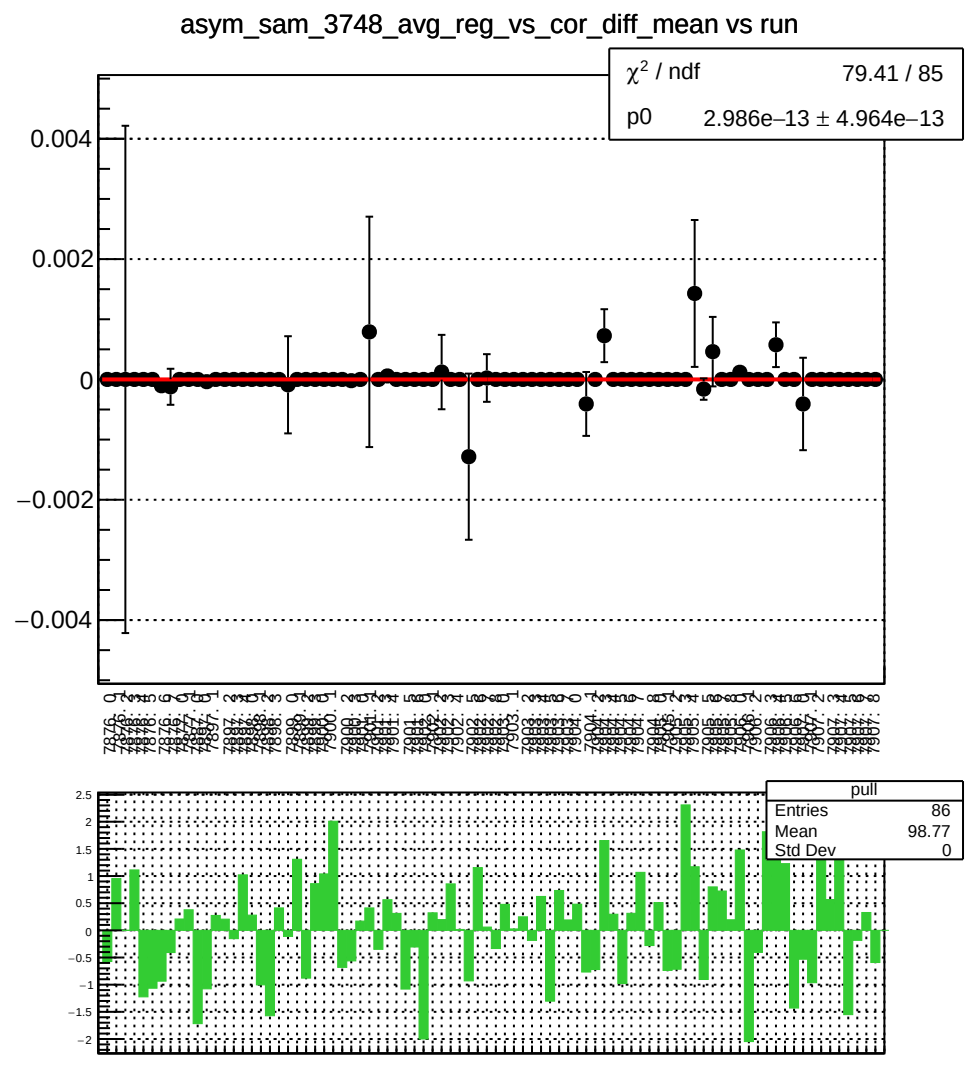

pull1D
Entries 86
Mean 0.01124
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

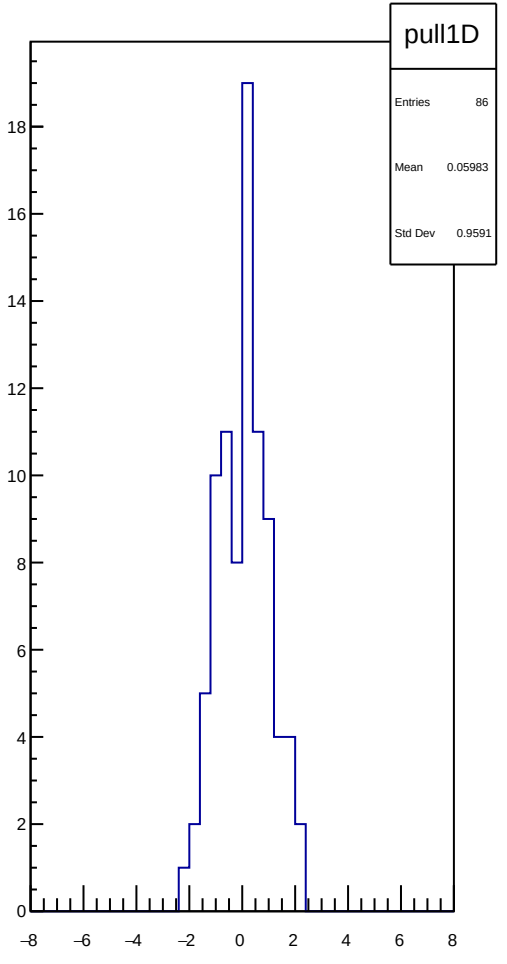

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.366e+04 / 85
p0 2881 ± 2.226
3600
3400
3200
3000
2800
2600
2400

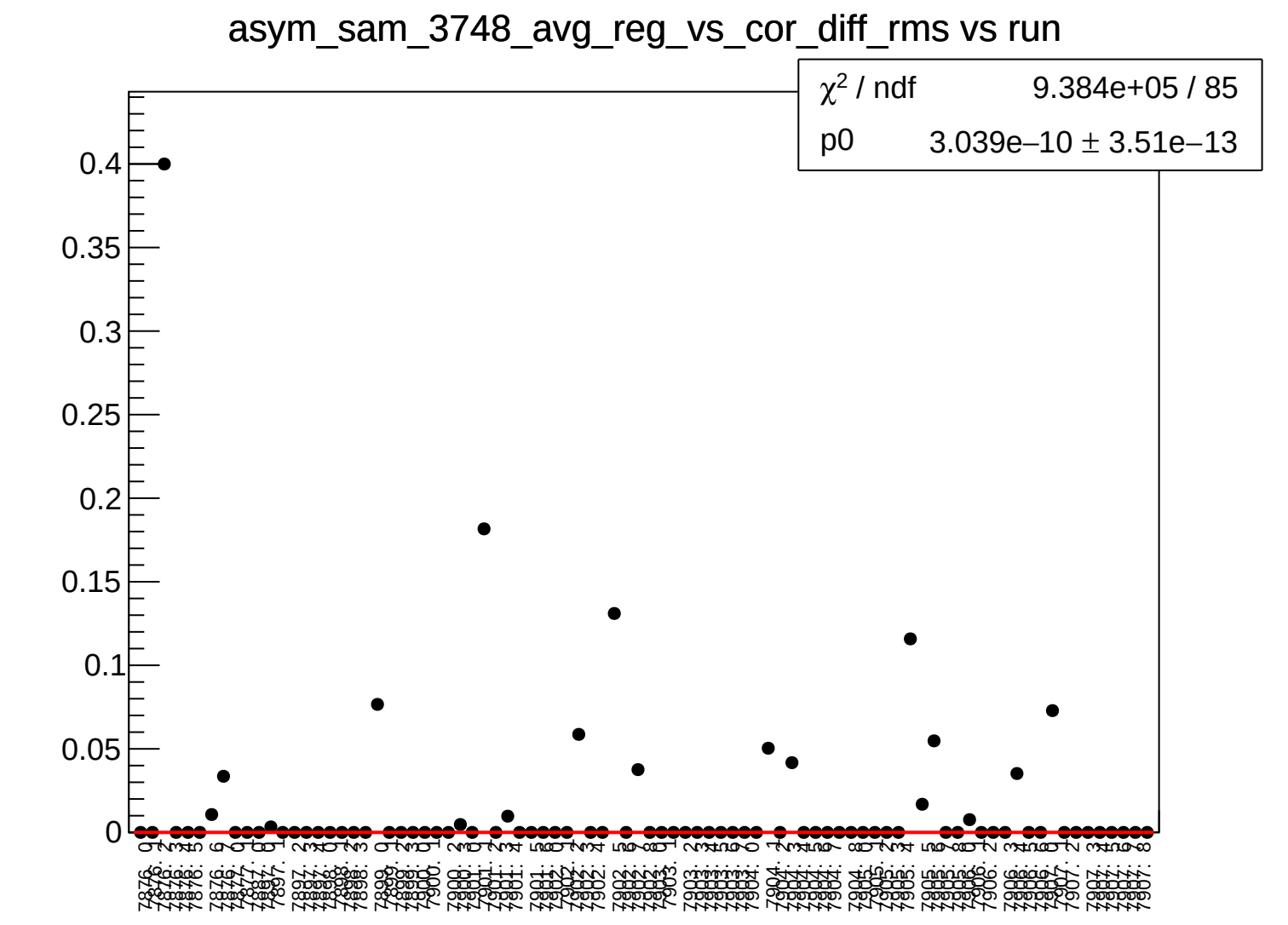

asym_sam_3748_avg_mean vs run
×10^3
χ^2 / ndf 87.74 / 85
p0 4881 ± 3125
100
50
0
−50
−100
pull
Entries 86
Mean 2.828
Std Dev 65.92
2
1
0
−1
−2
−3

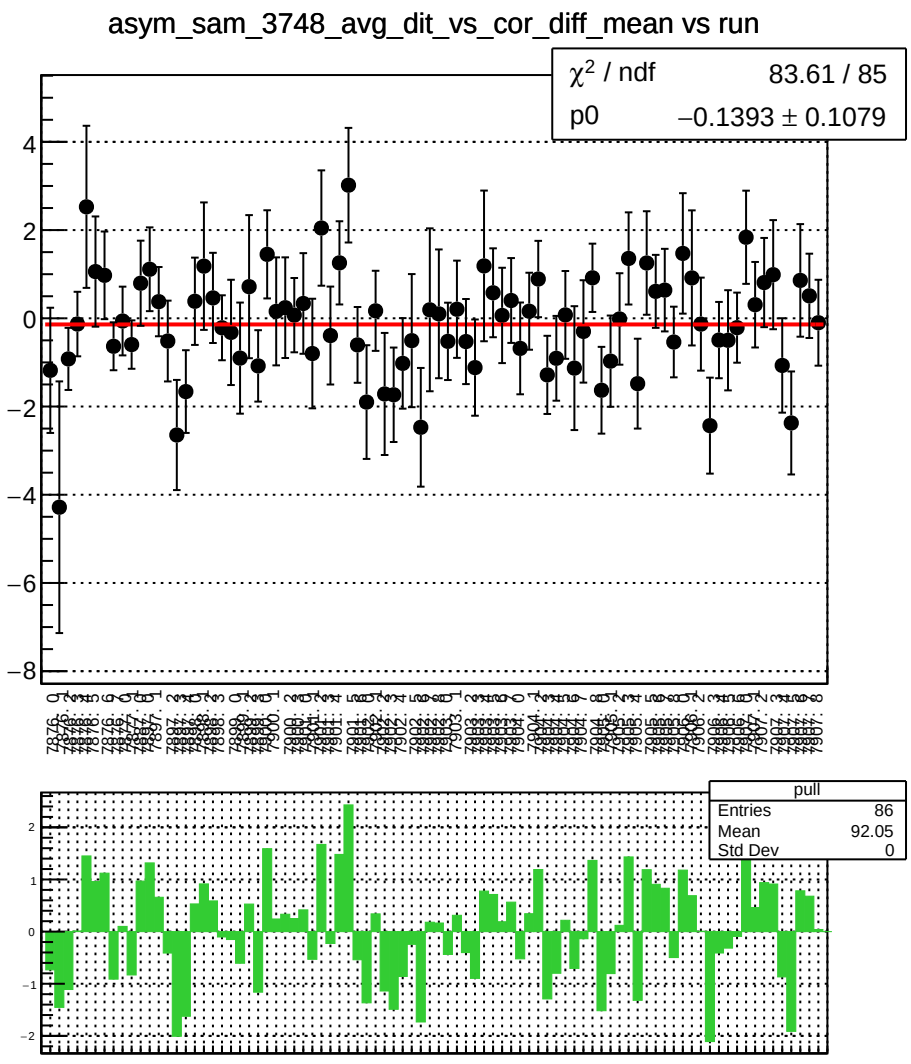

pull1D
Entries 86
Mean −0.01139
Std Dev 1.01
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

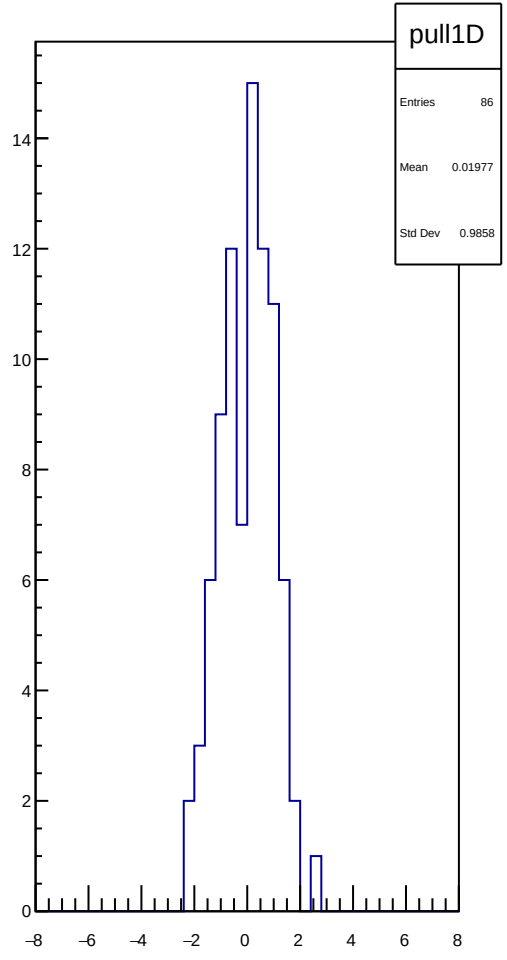

asym_sam_3748_avg_rms vs run
χ² / ndf 1.454e+04 / 85
p0 2859 ± 2.21
3600
3400
3200
3000
2800
2600
2400

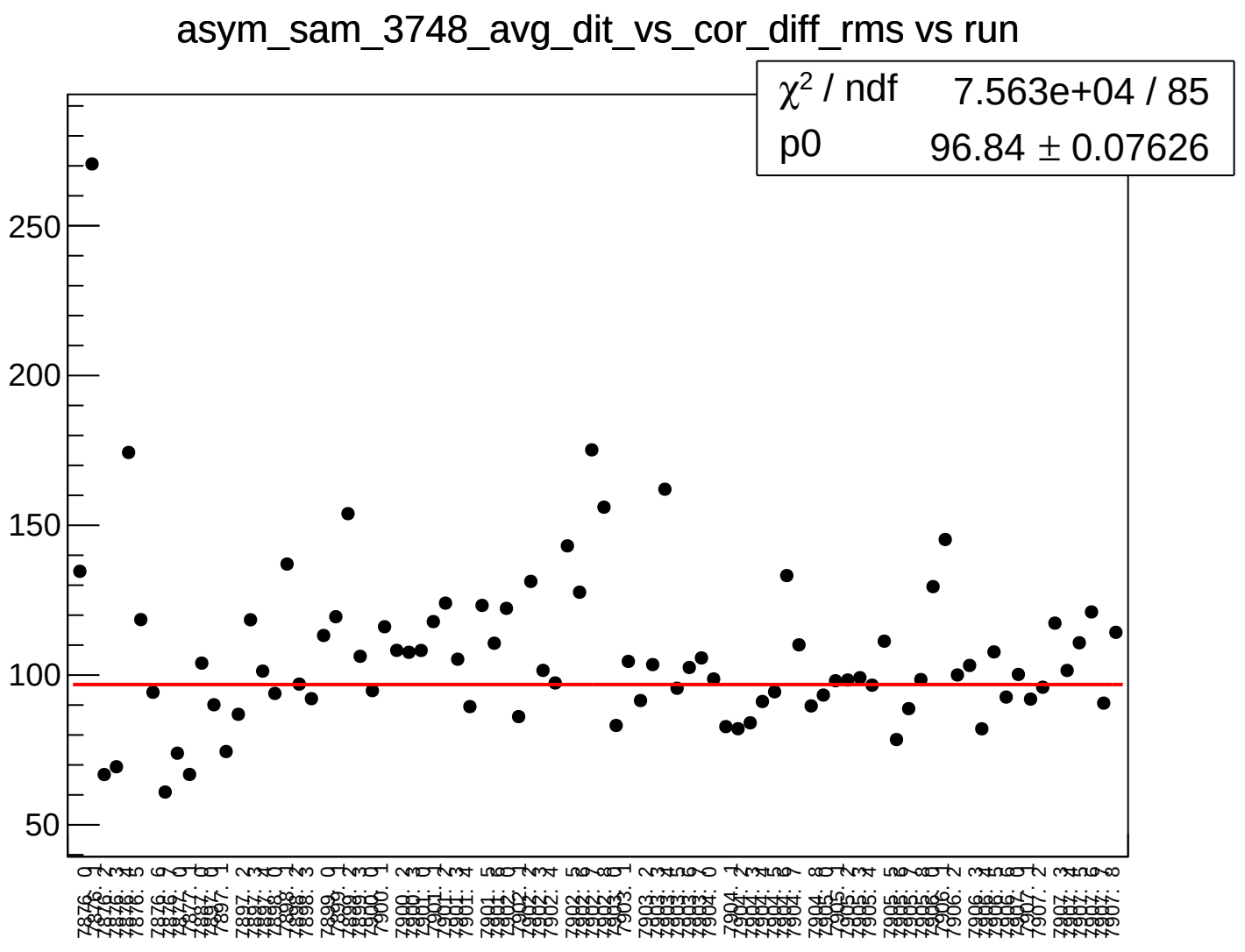

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.41 / 85
p0 2.986e−13 ± 4.964e−13
0.004
0.002
0
−0.002
−0.004
pull
Entries 86
Mean 98.77
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

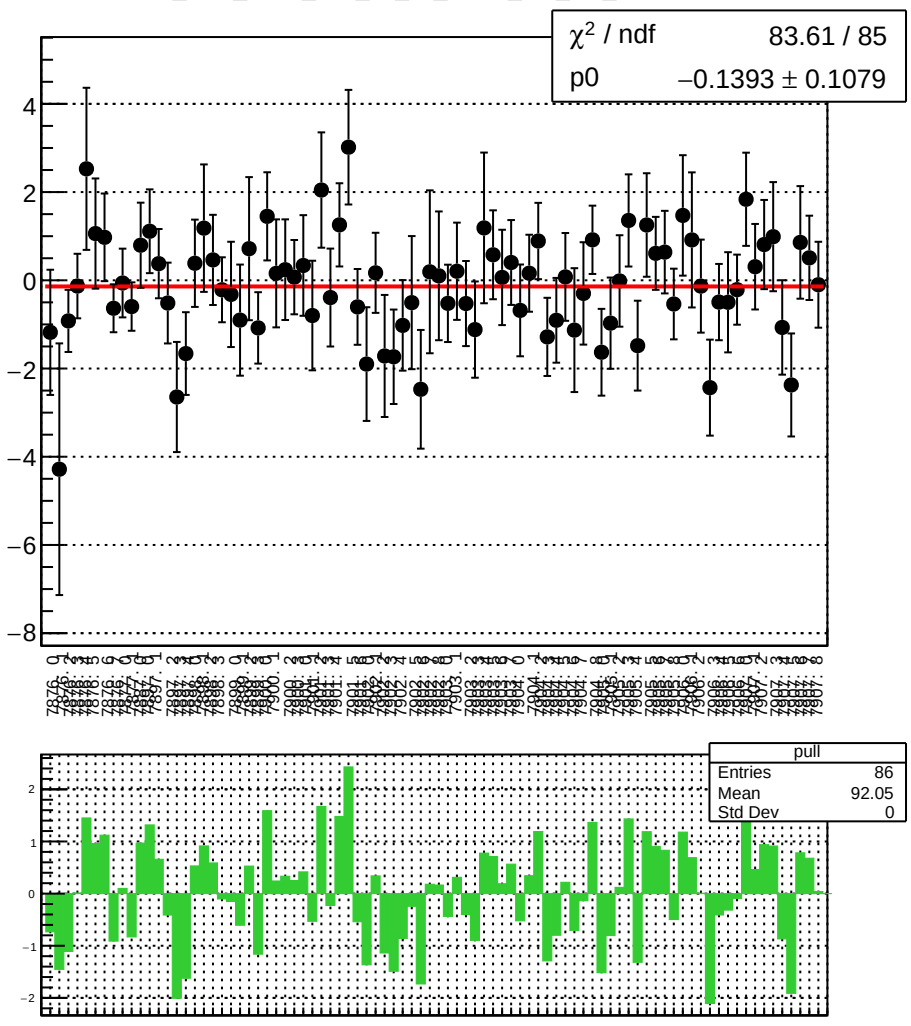

pull1D
Entries 86
Mean 0.05983
Std Dev 0.9591
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

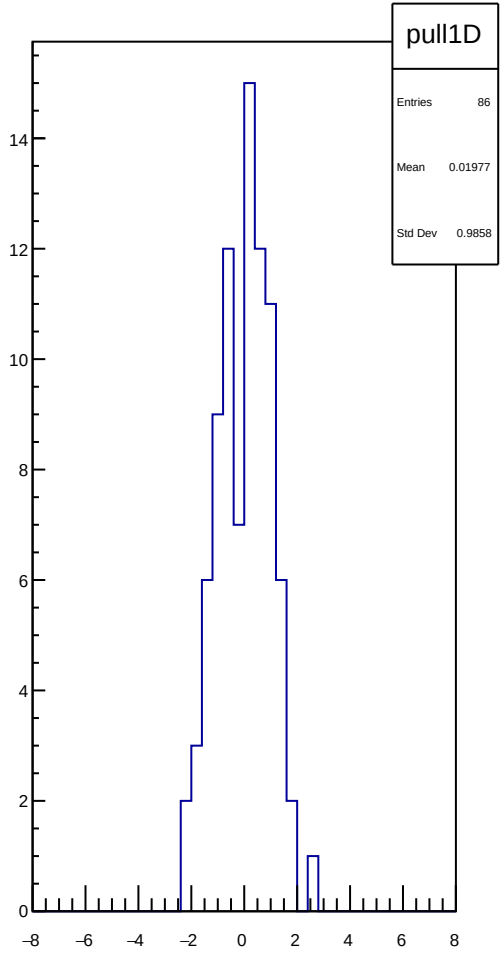

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.384e+05 / 85
p0 3.039e−10 ± 3.51e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

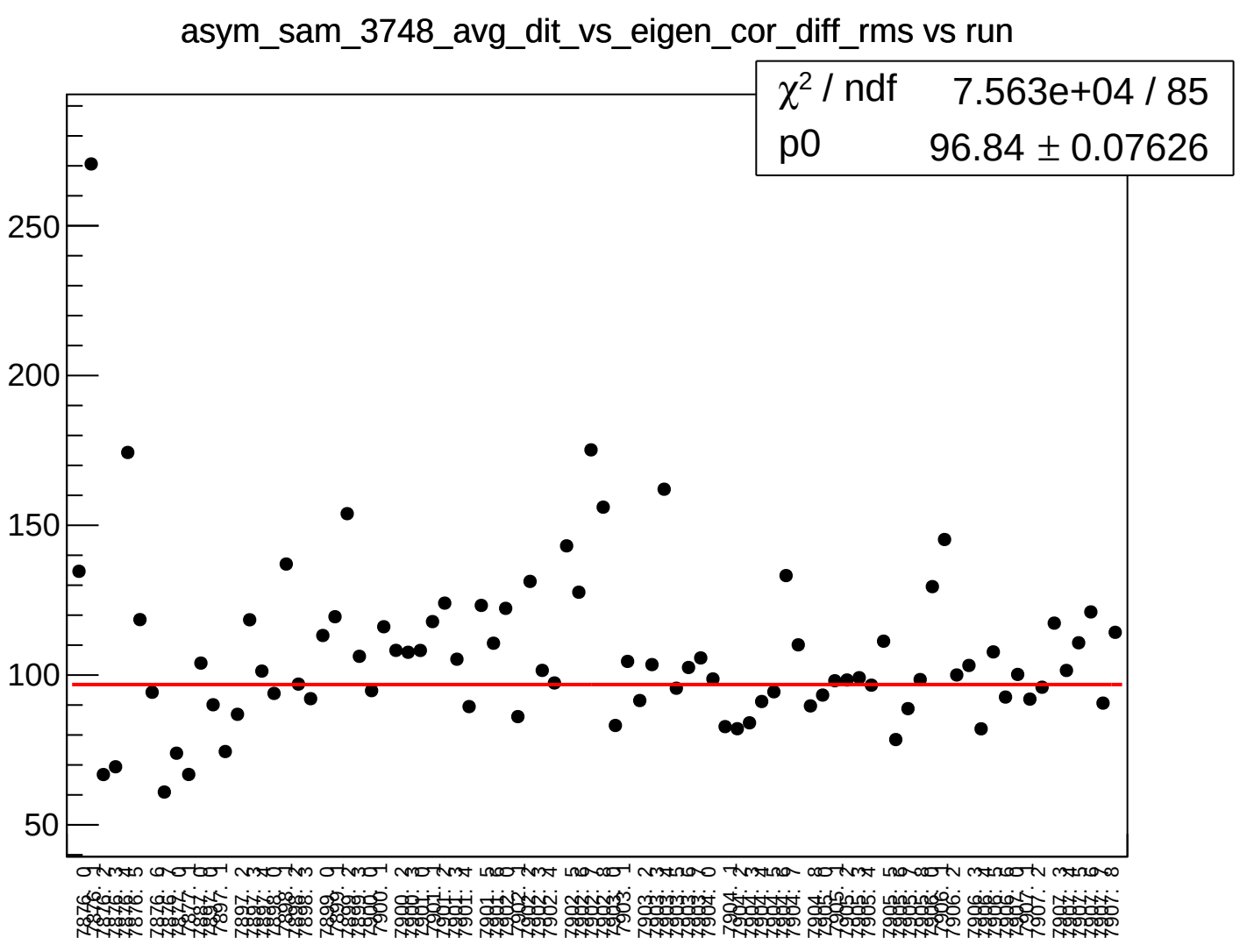

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.61 / 85
p0 −0.1393 ± 0.1079
pull
Entries 86
Mean 92.05
Std Dev 0

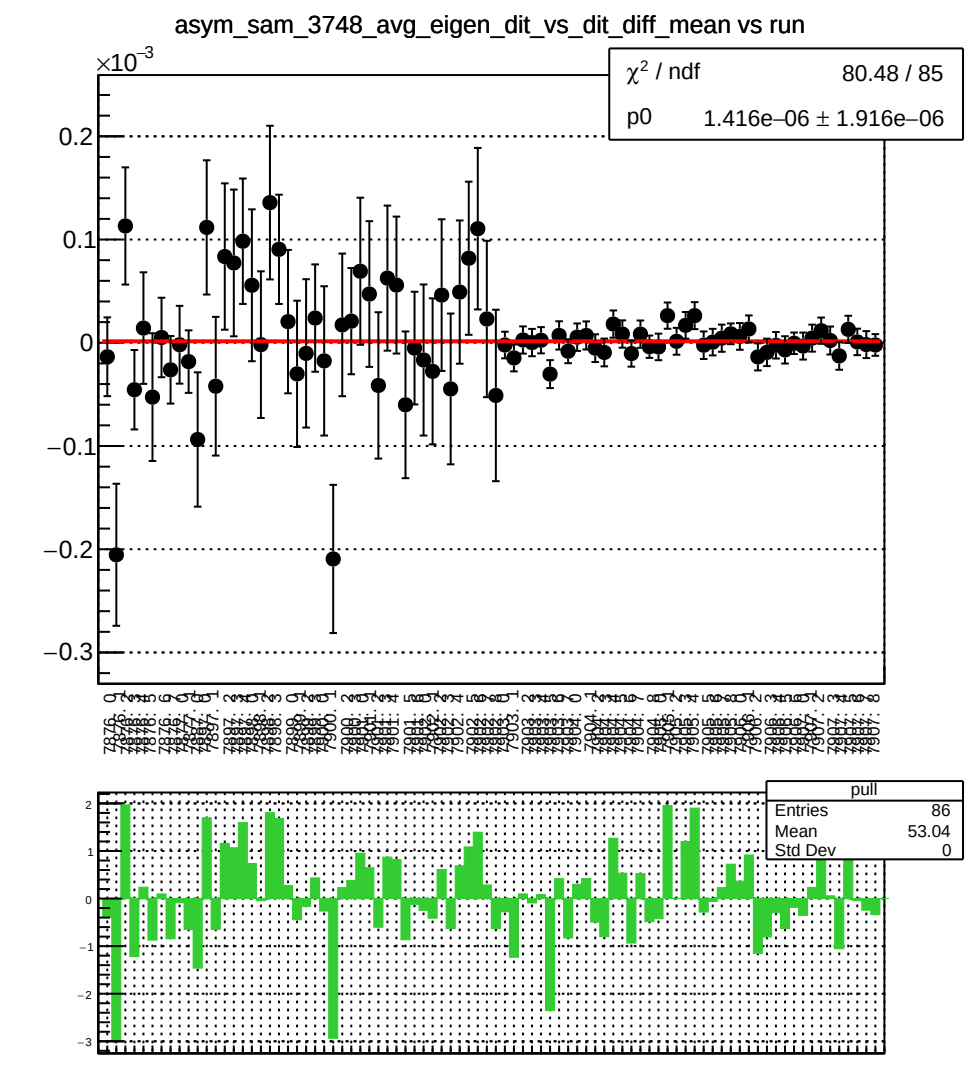

pull1D
Entries 86
Mean 0.01977
Std Dev 0.9858

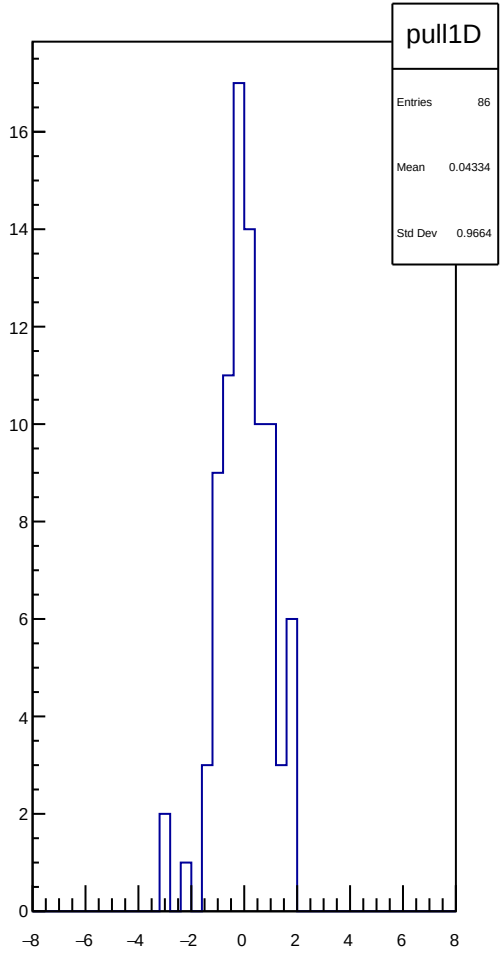

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.563e+04 / 85
p0 96.84 ± 0.07626
250
200
150
100
50

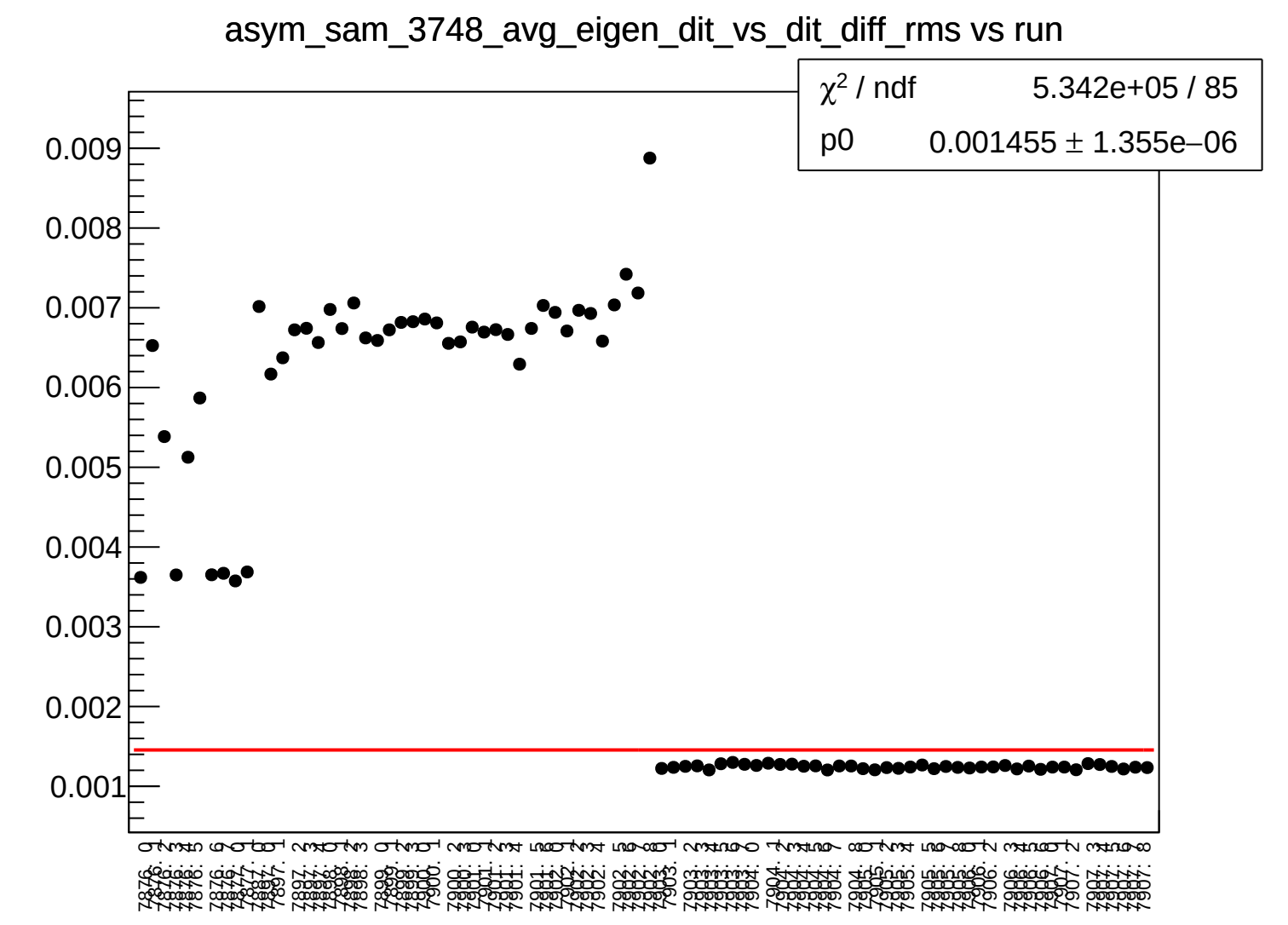

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.61 / 85
p0 −0.1393 ± 0.1079
pull
Entries 86
Mean 92.05
Std Dev 0

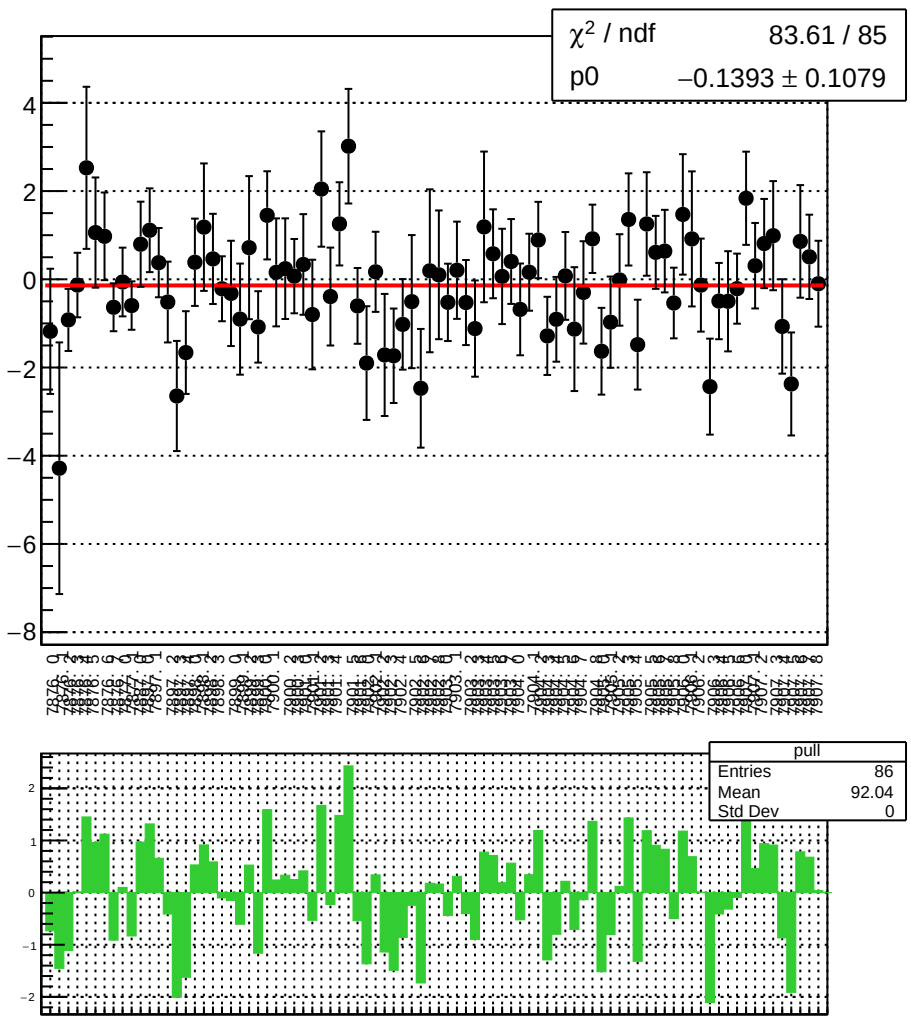

pull1D
Entries 86
Mean 0.01977
Std Dev 0.9858

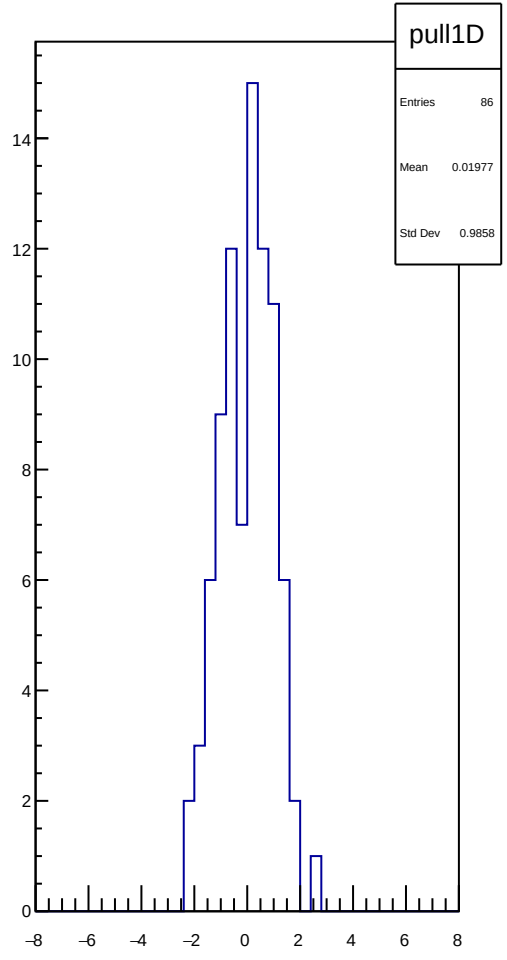

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.563e+04 / 85
p0 96.84 ± 0.07626
250
200
150
100
50

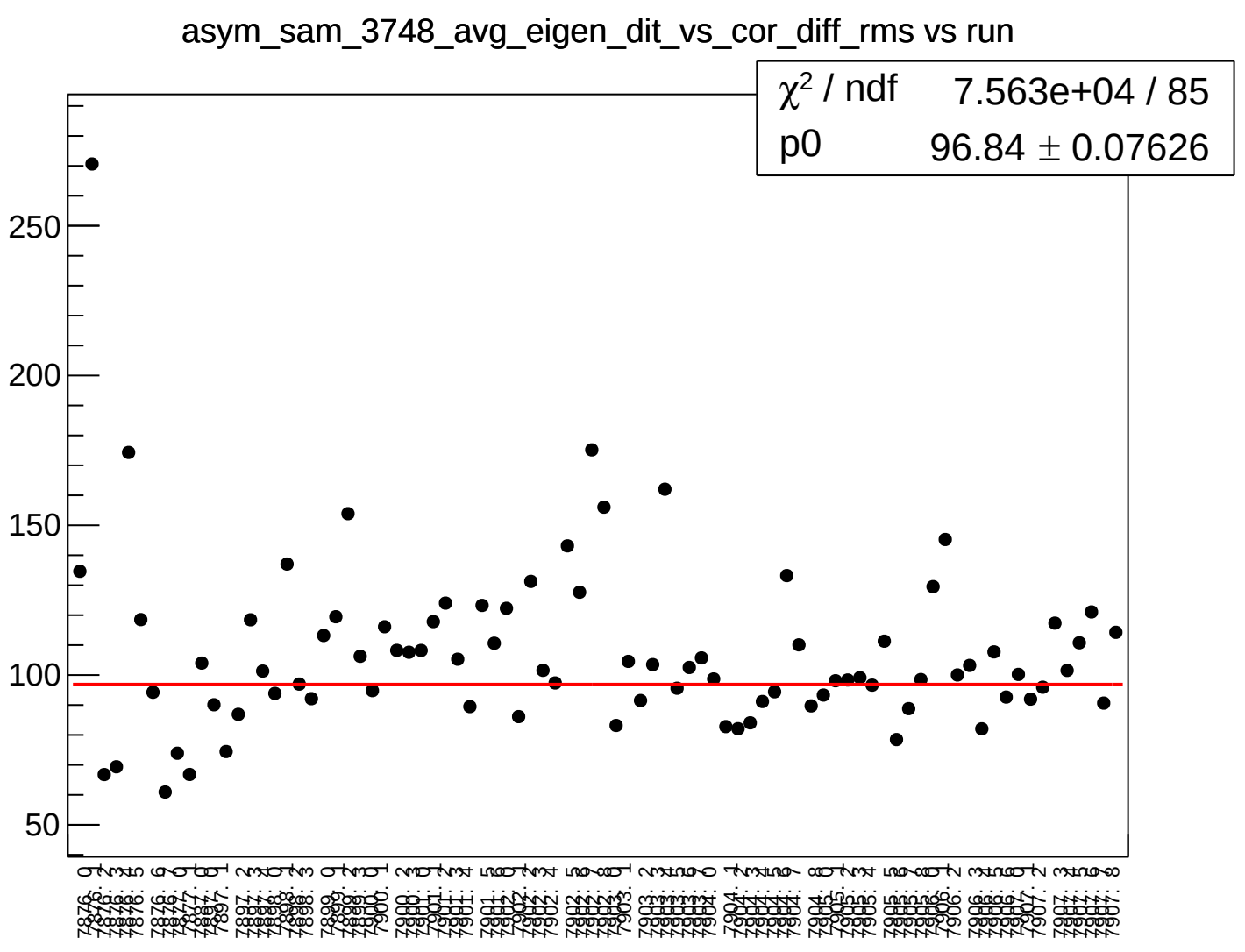

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 80.48 / 85
p0 1.416e−06 ± 1.916e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 86
Mean 53.04
Std Dev 0
2
1
0
−1
−2
−3

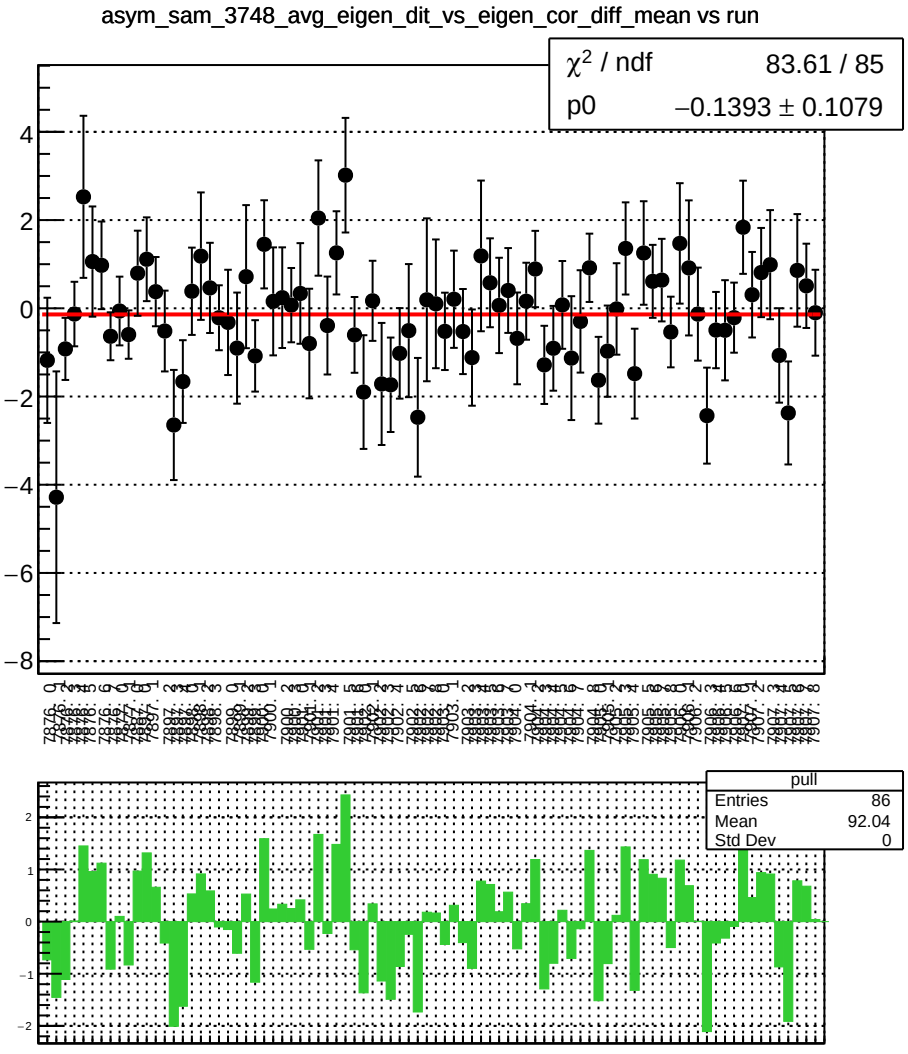

pull1D
Entries 86
Mean 0.04334
Std Dev 0.9664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

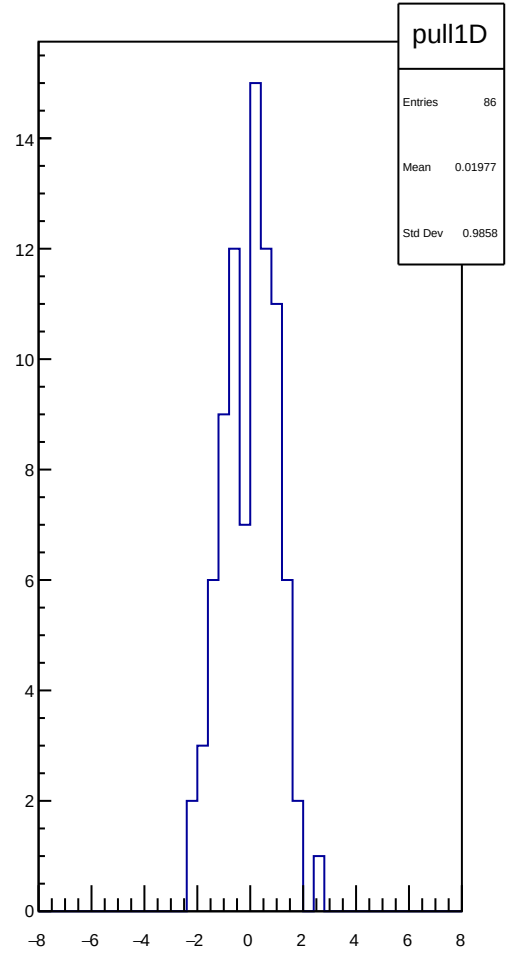

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.342e+05 / 85
p0 0.001455 ± 1.355e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

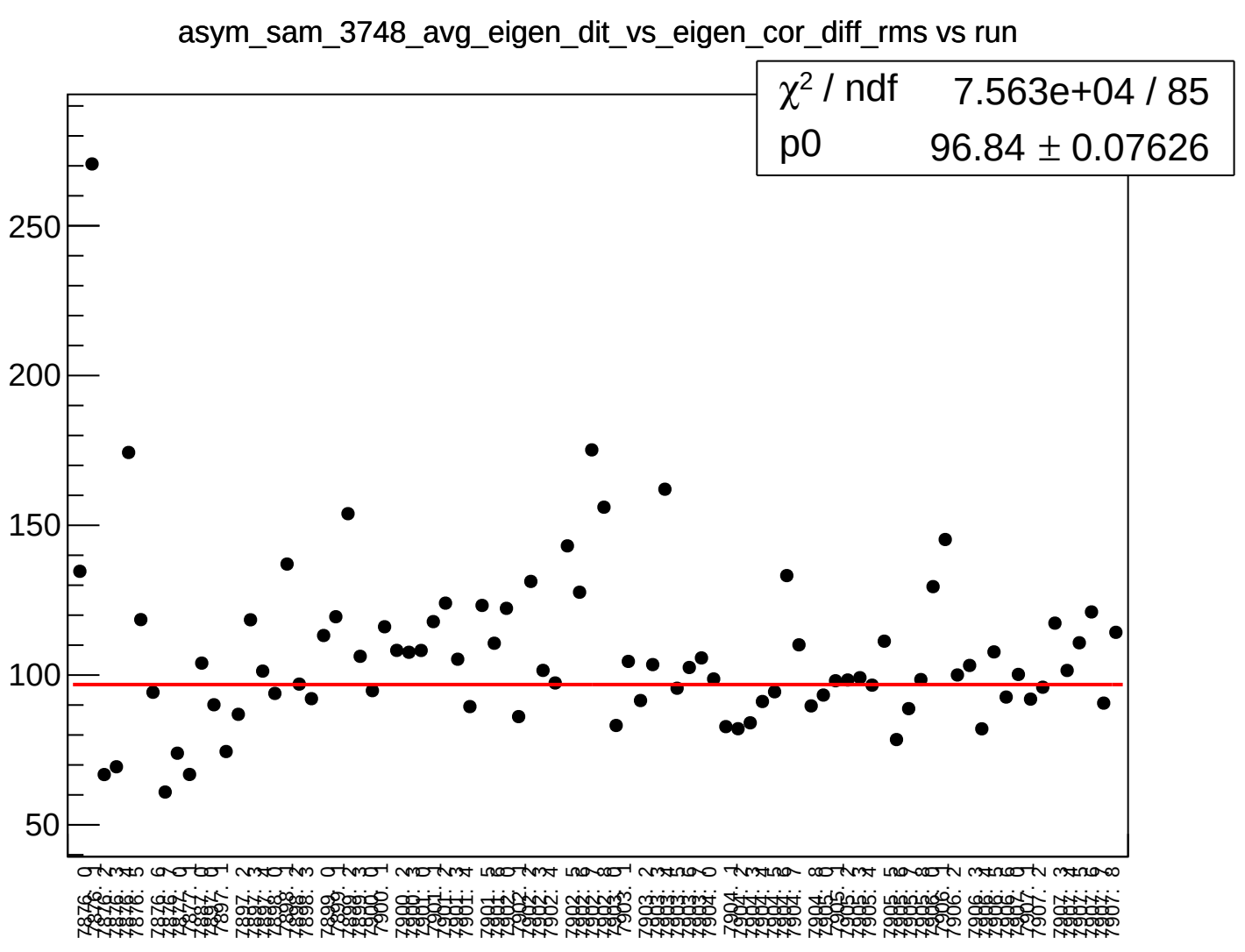

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.61 / 85
p0 −0.1393 ± 0.1079
pull
Entries 86
Mean 92.04
Std Dev 0

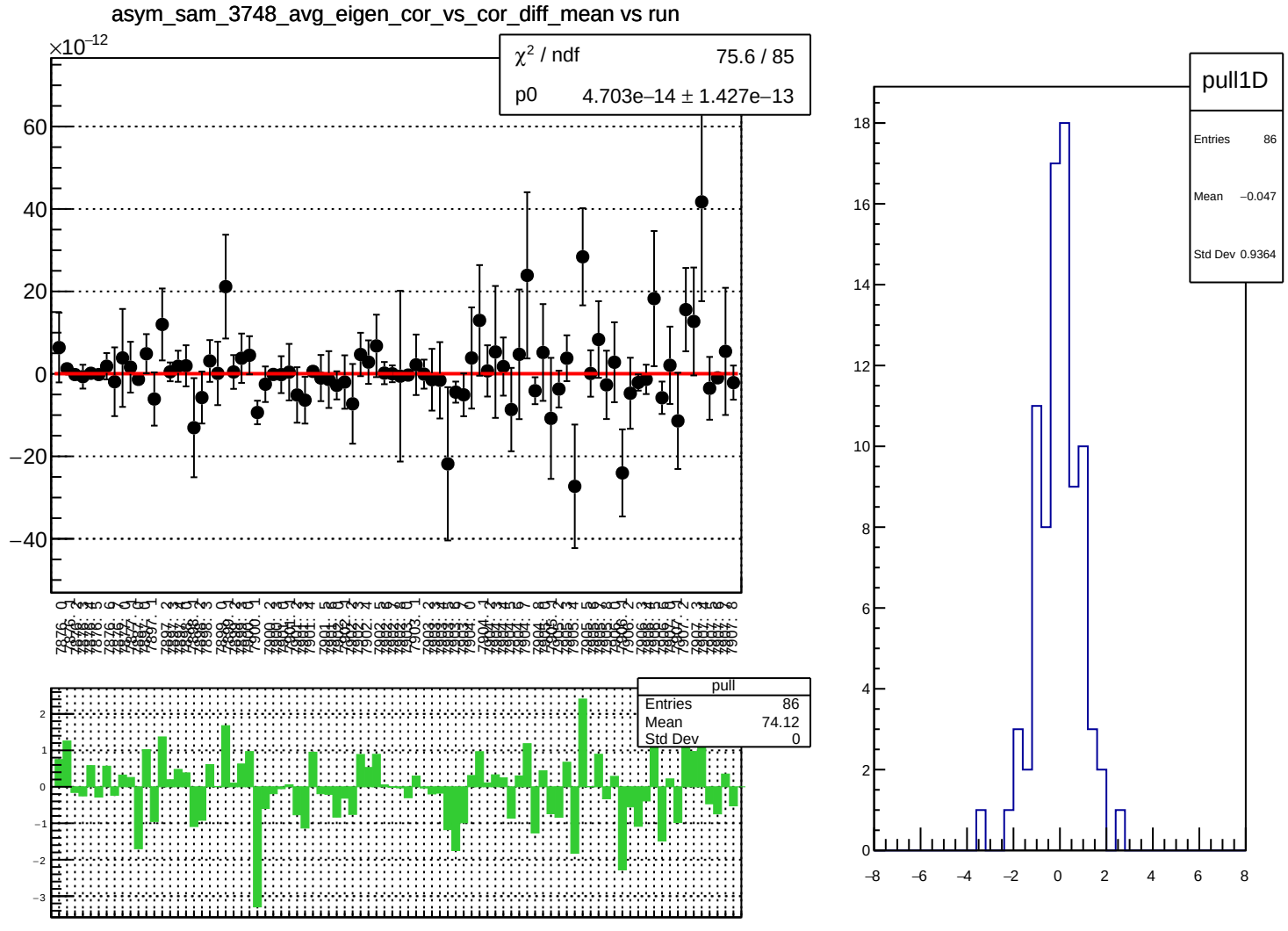

pull1D
Entries 86
Mean 0.01977
Std Dev 0.9858

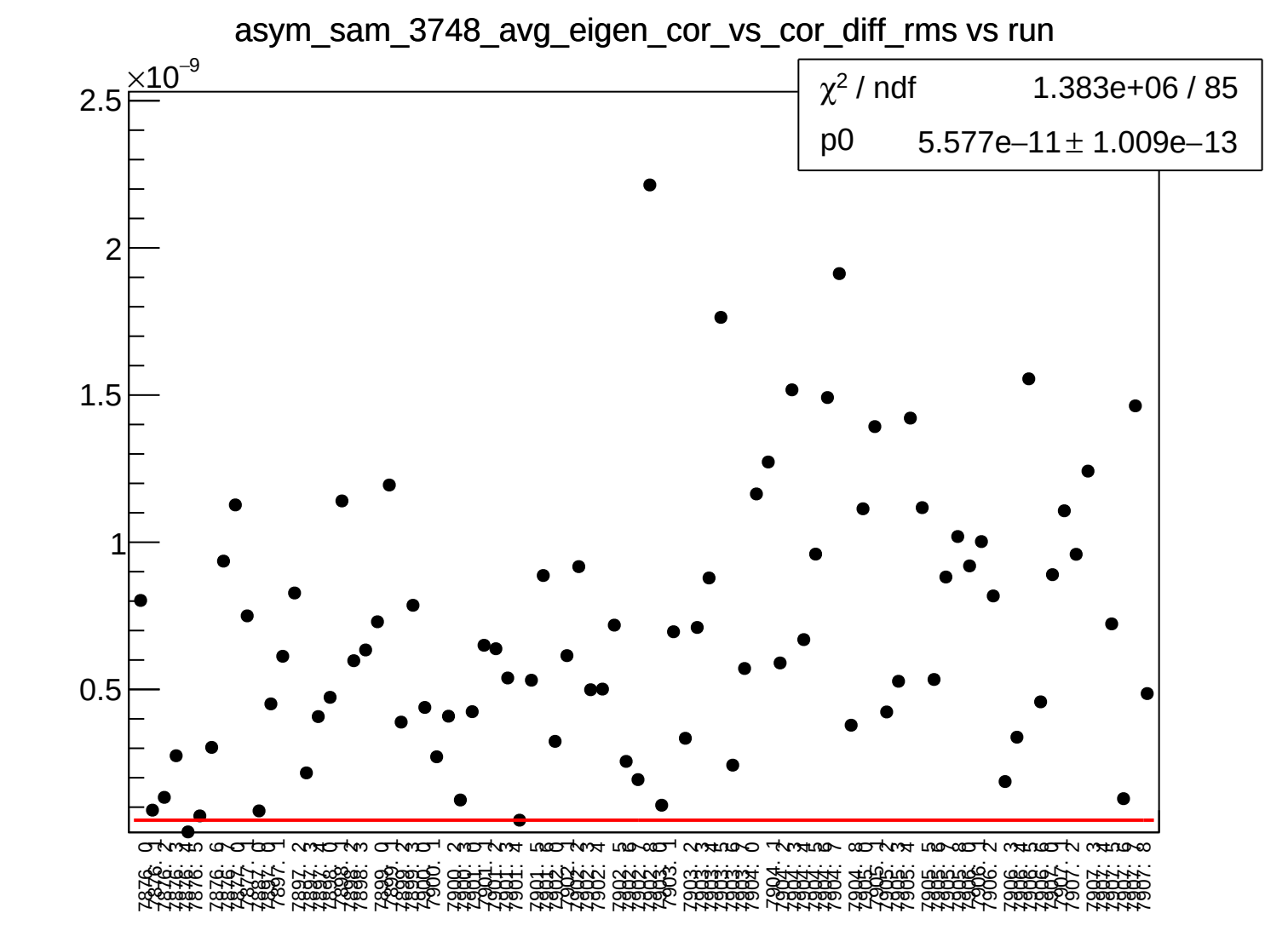

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.563e+04 / 85
p0 96.84 ± 0.07626
250
200
150
100
50

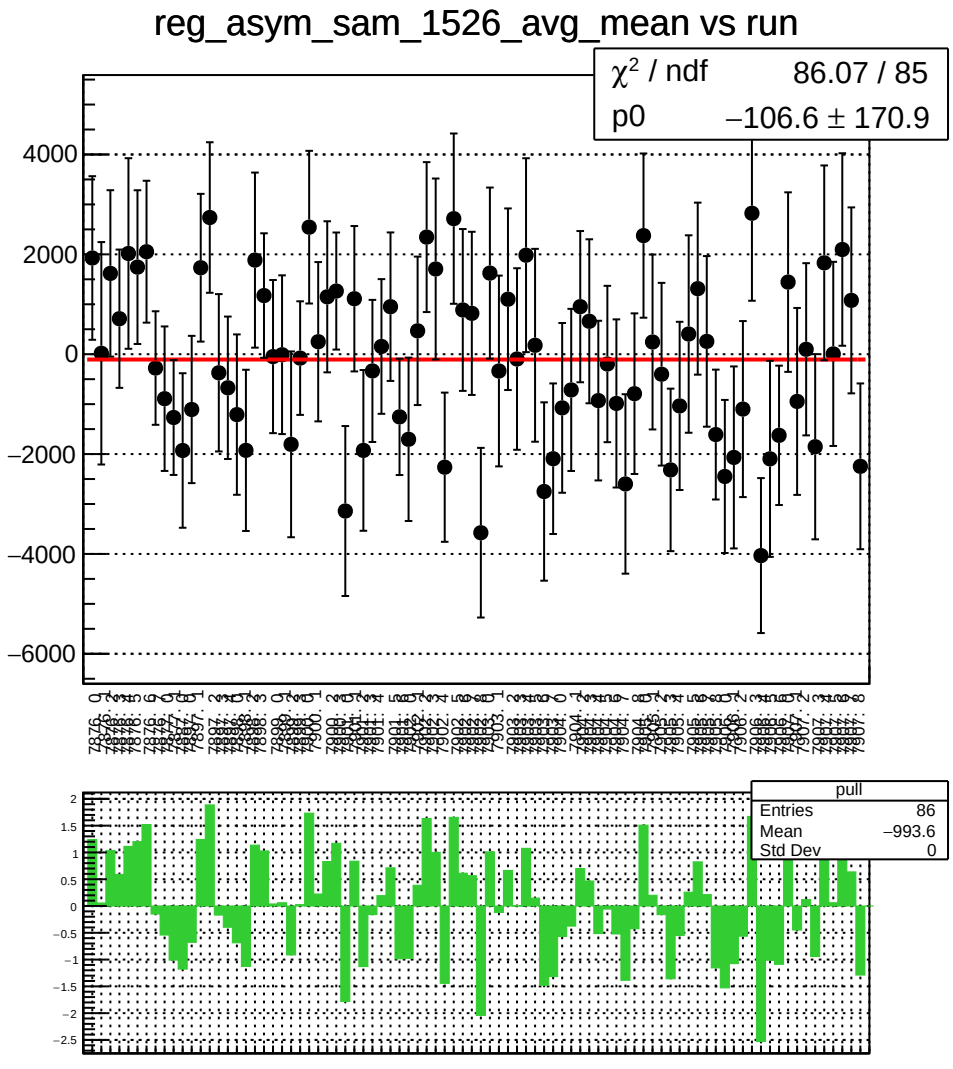

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.61 / 85
p0 −0.1393 ± 0.1079
pull
Entries 86
Mean 92.04
Std Dev 0

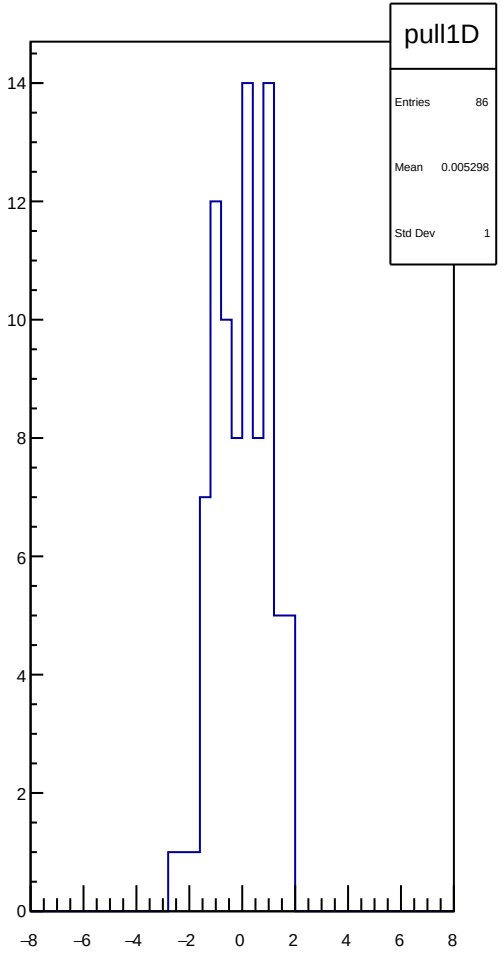

pull1D
Entries 86
Mean 0.01977
Std Dev 0.9858

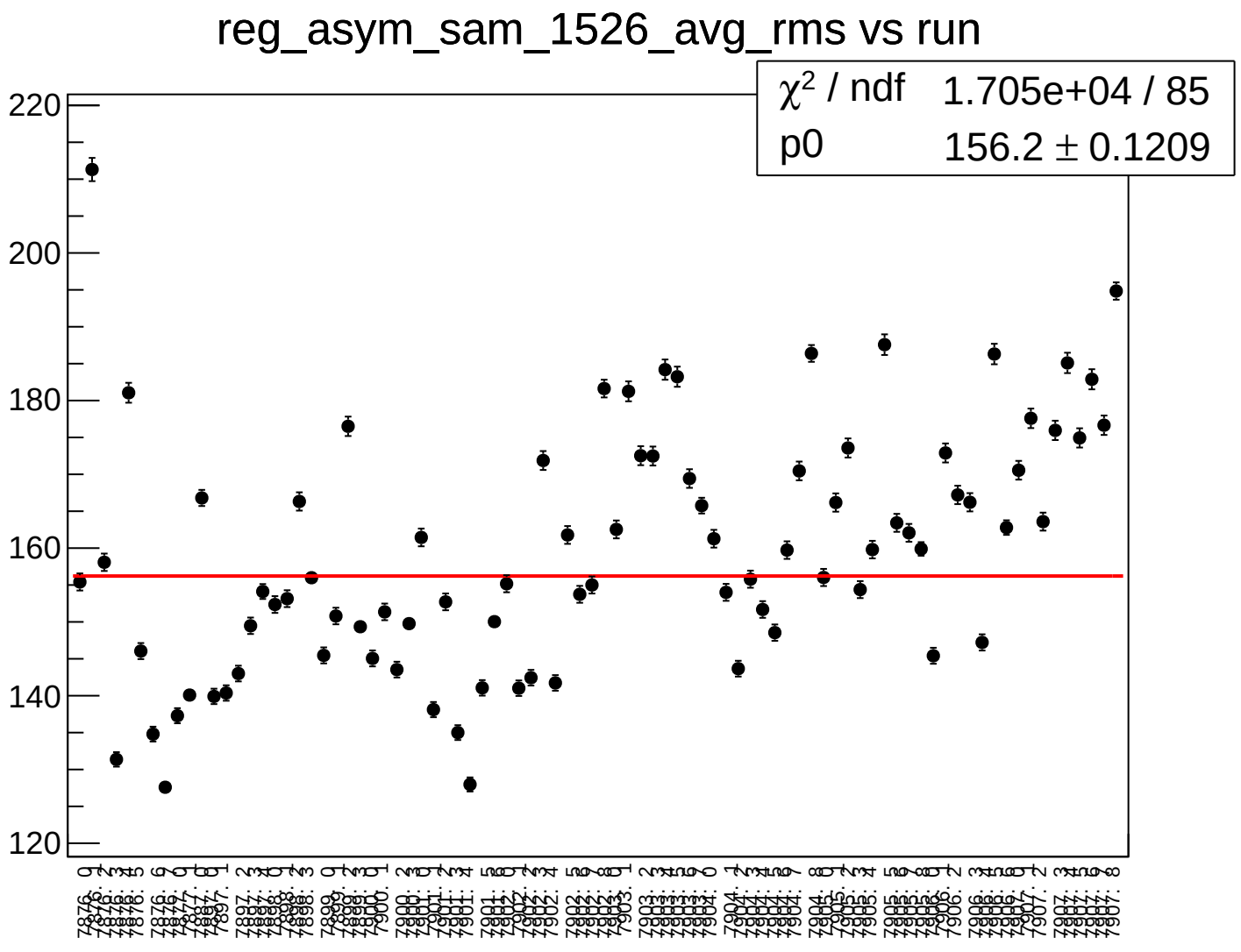

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.563e+04 / 85
p0 96.84 ± 0.07626
250
200
150
100
50

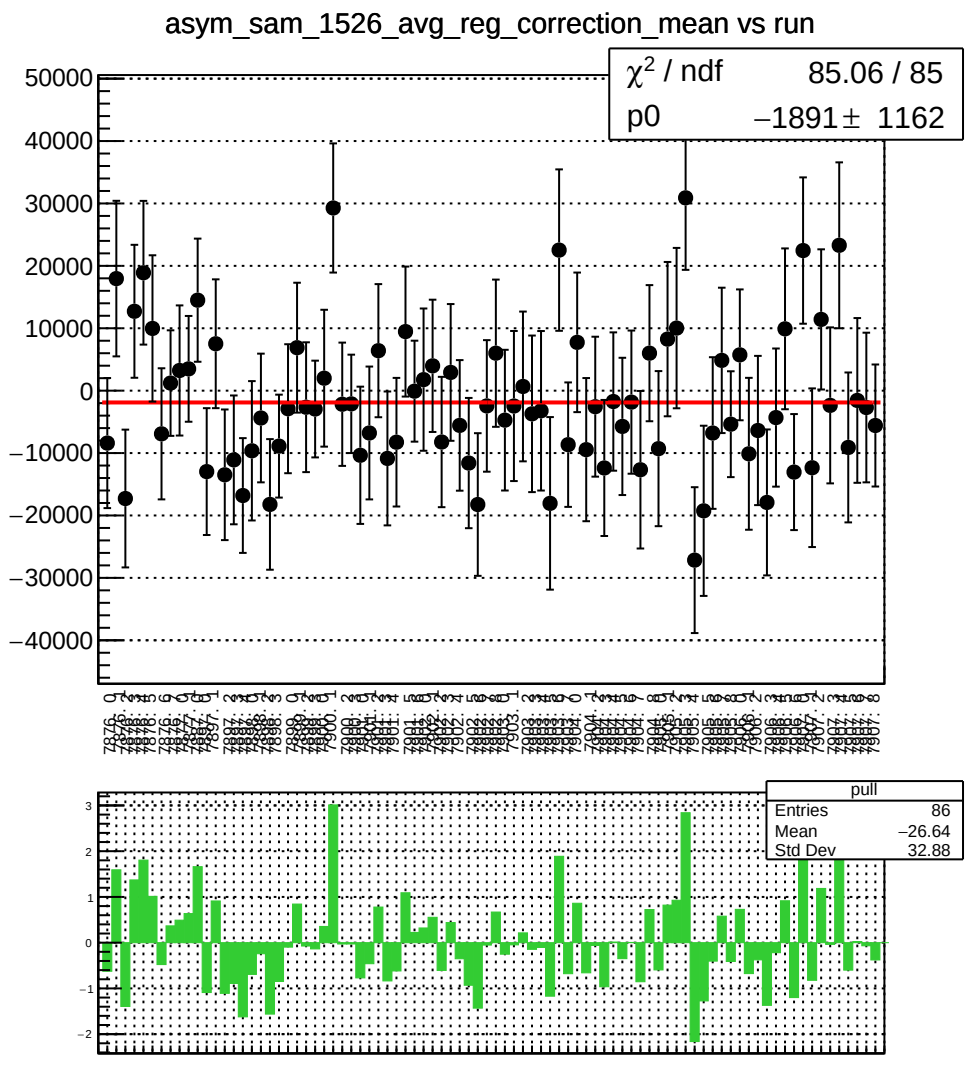

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.6 / 85
p0 4.703e−14 ± 1.427e−13
60
40
20
0
−20
−40
pull
Entries 86
Mean 74.12
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.047
Std Dev 0.9364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

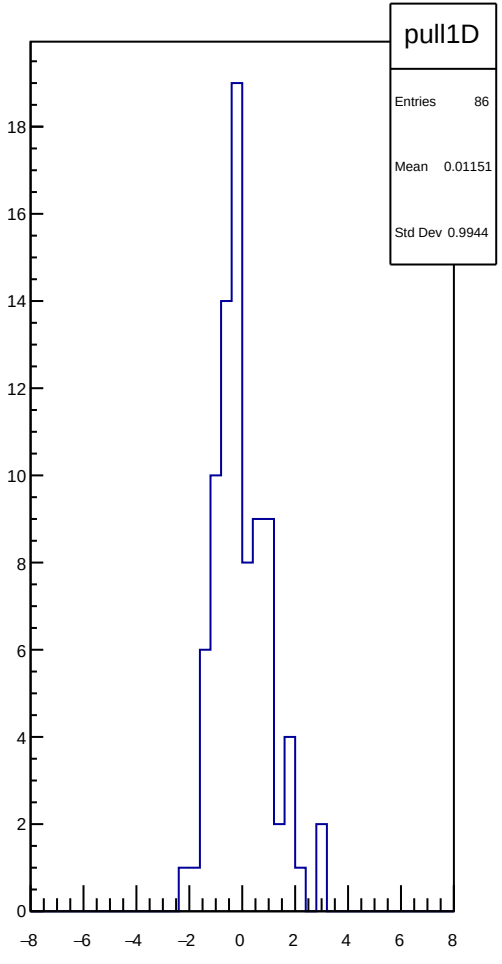

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 1.383e+06 / 85
p0 5.577e−11 ± 1.009e−13

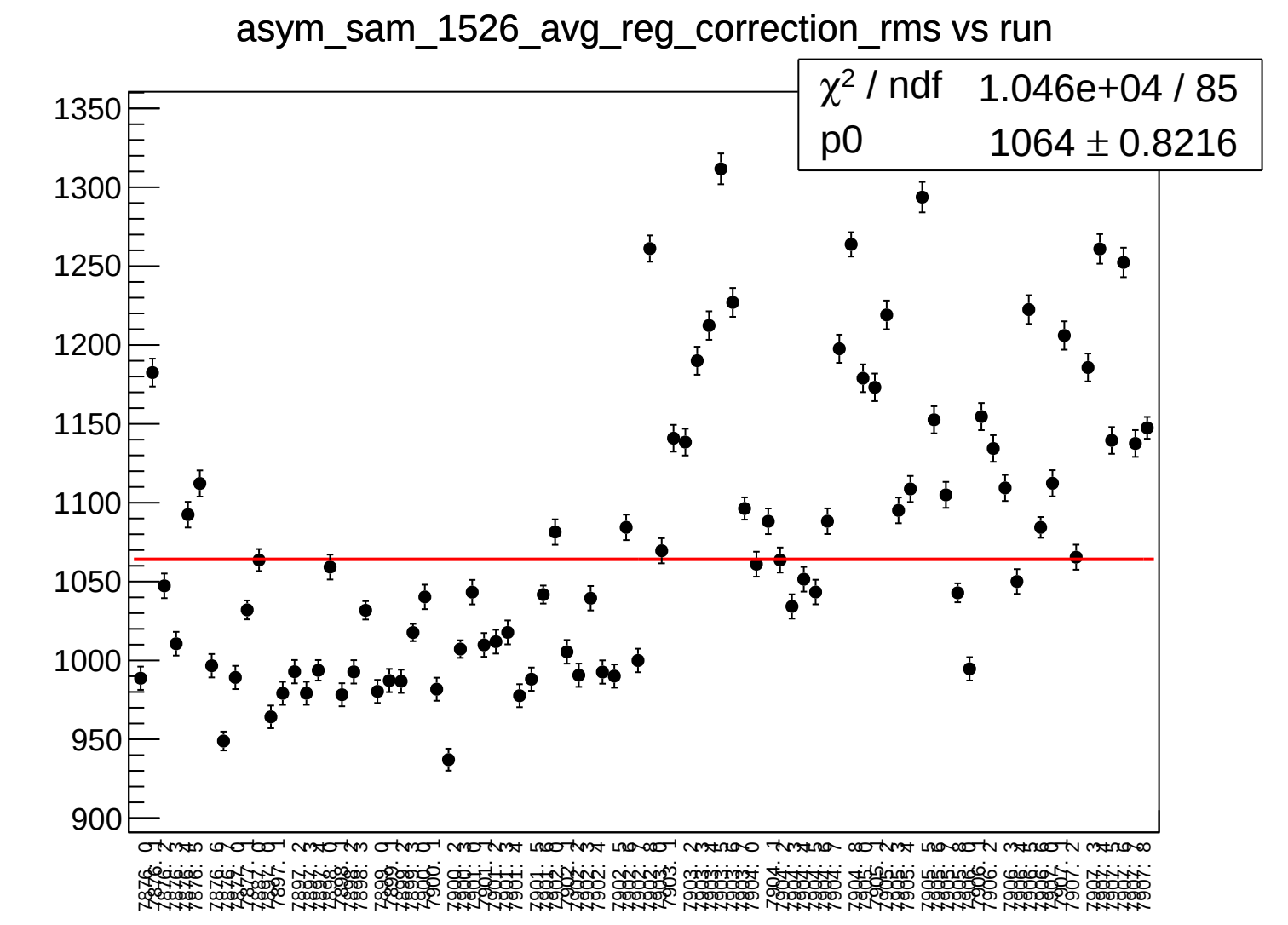

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 86.07 / 85
p0 −106.6 ± 170.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −993.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

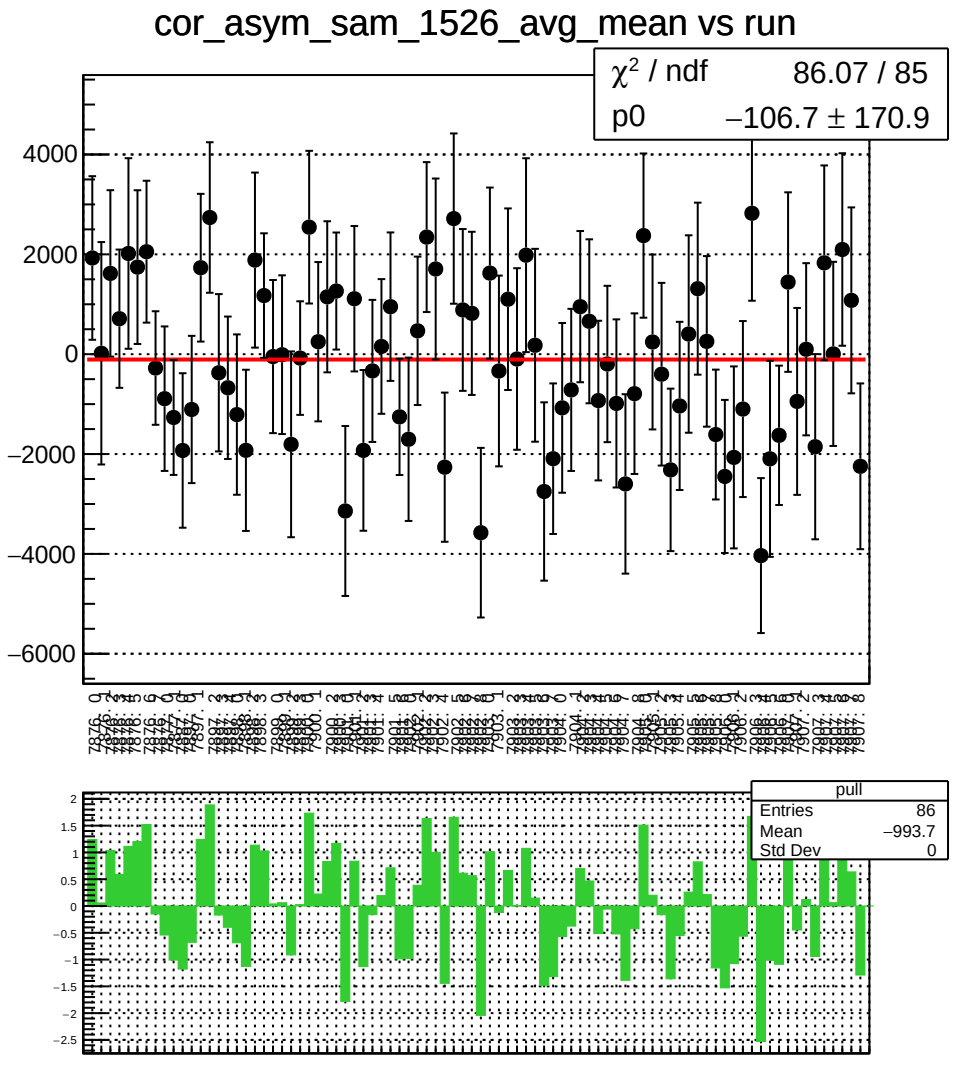

pull1D
Entries 86
Mean 0.005298
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

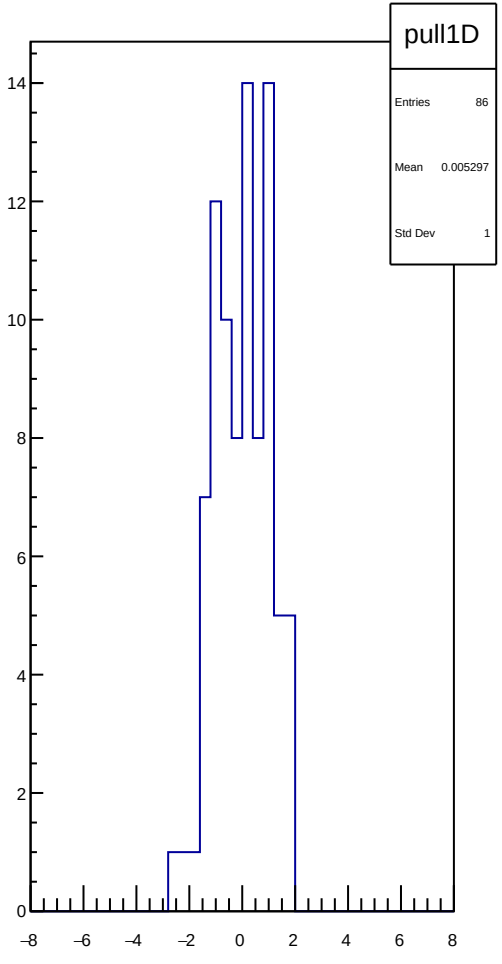

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.705e+04 / 85
p0 156.2 ± 0.1209
220
200
180
160
140
120

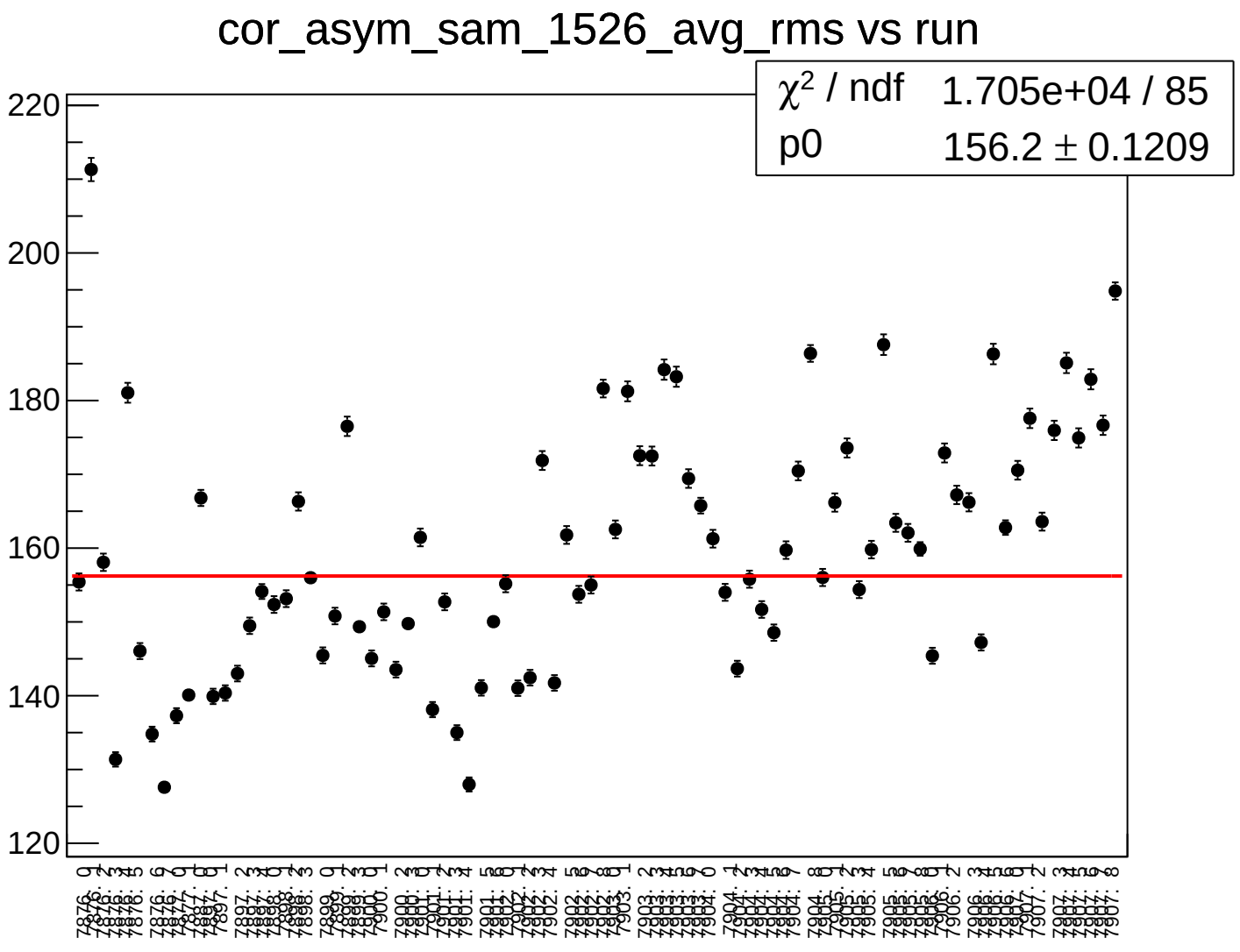

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 85.06 / 85
p0 −1891 ± 1162
pull
Entries 86
Mean −26.64
Std Dev 32.88

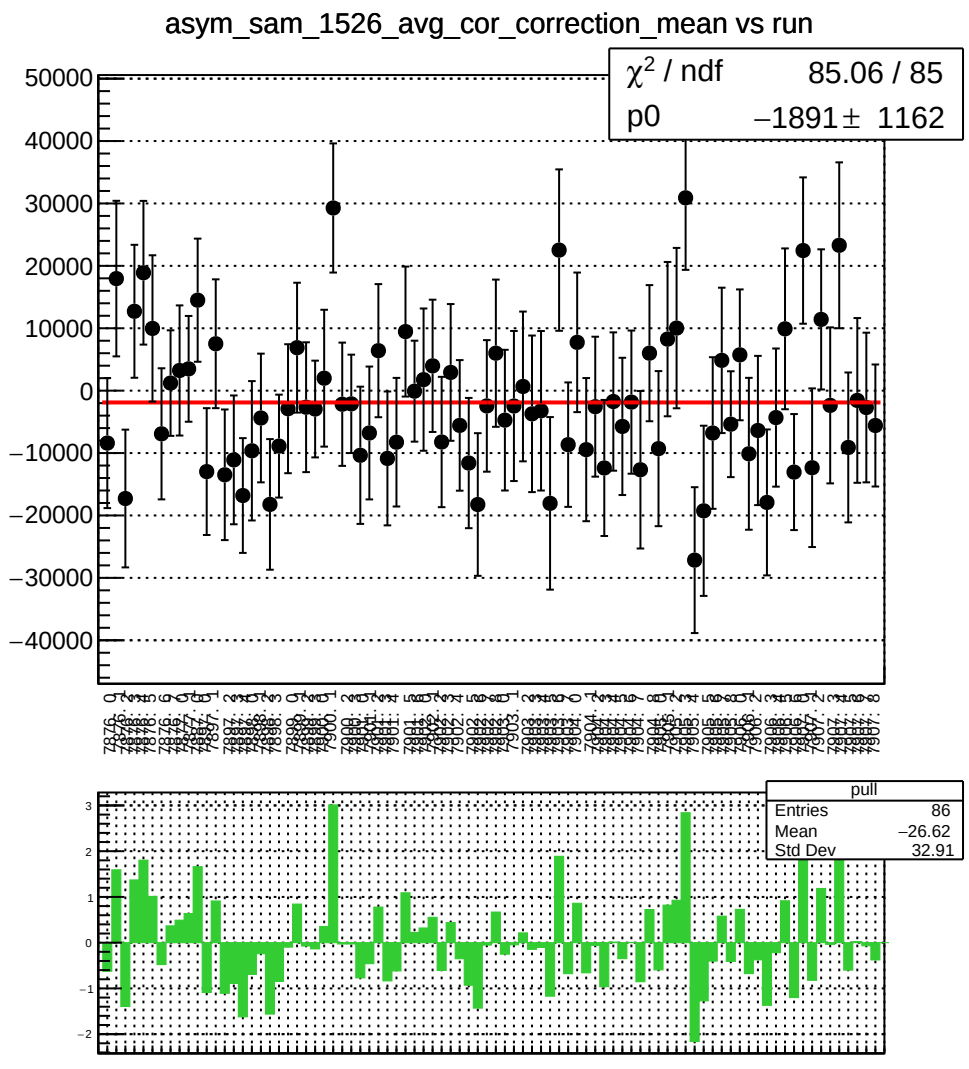

pull1D
Entries 86
Mean 0.01151
Std Dev 0.9944

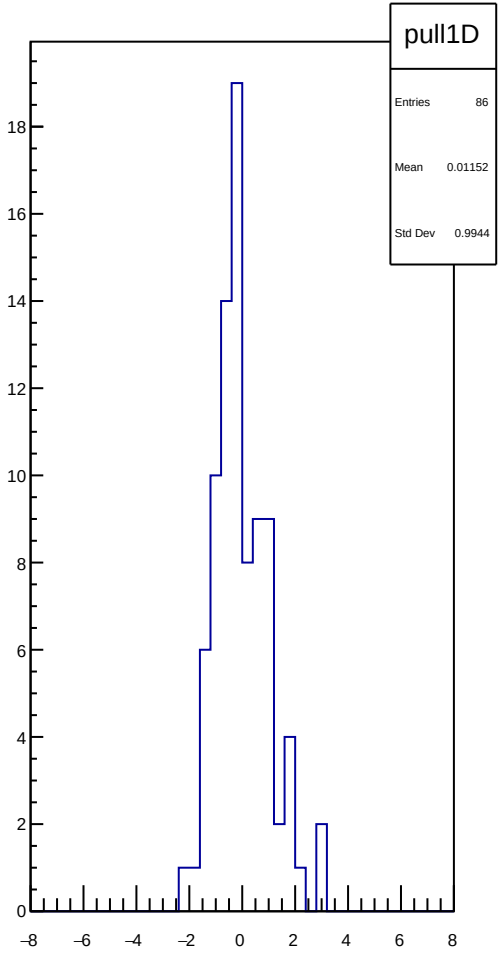

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.046e+04 / 85
p0 1064 ± 0.8216
1350
1300
1250
1200
1150
1100
1050
1000
950
900

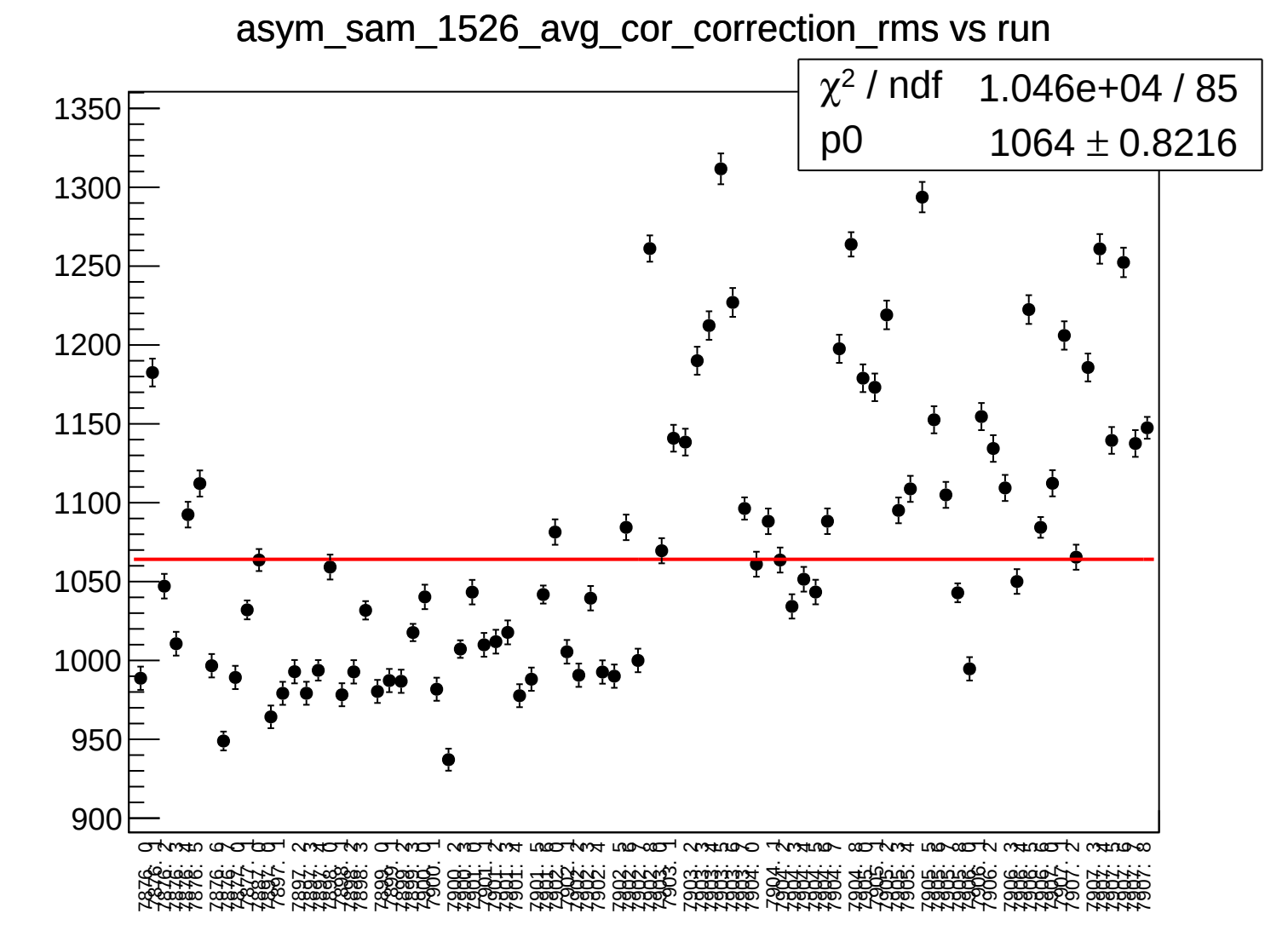

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 86.07 / 85
p0 −106.7 ± 170.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −993.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

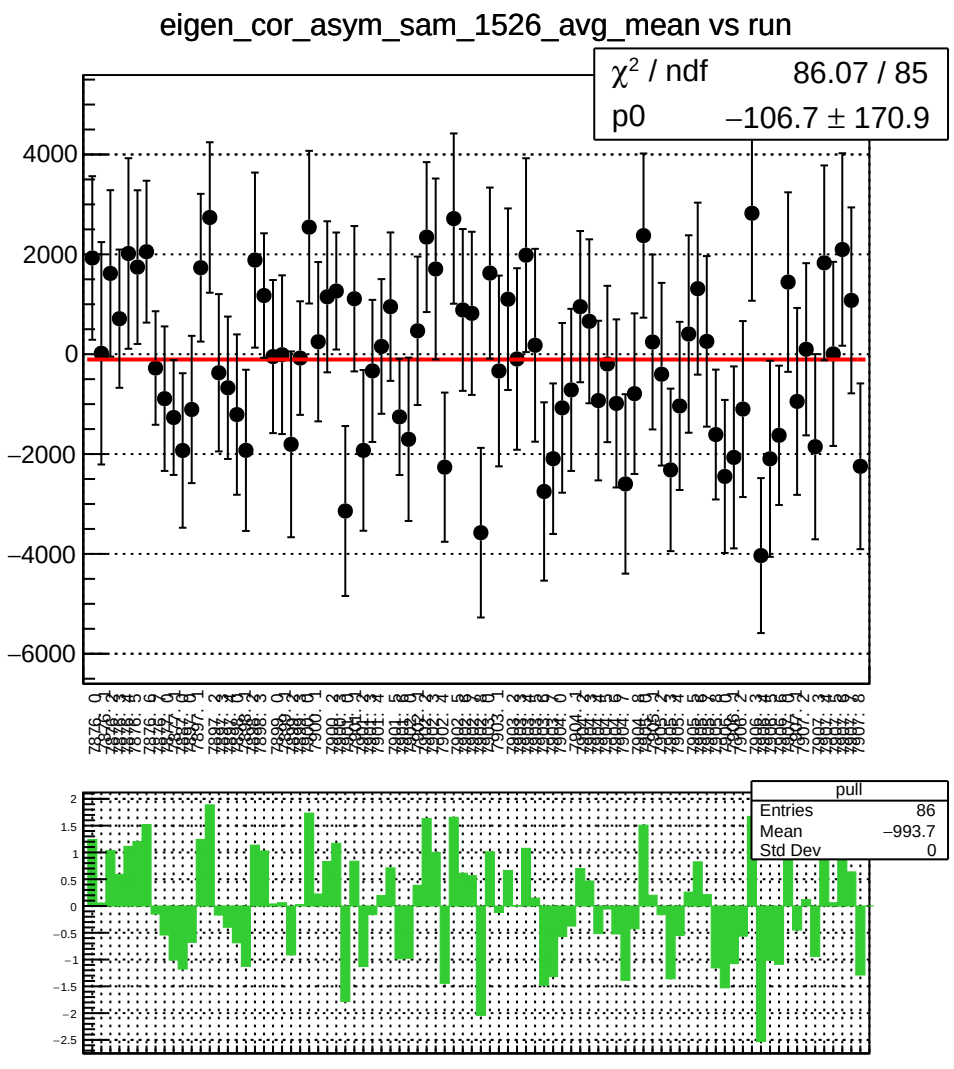

pull1D
Entries 86
Mean 0.005297
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

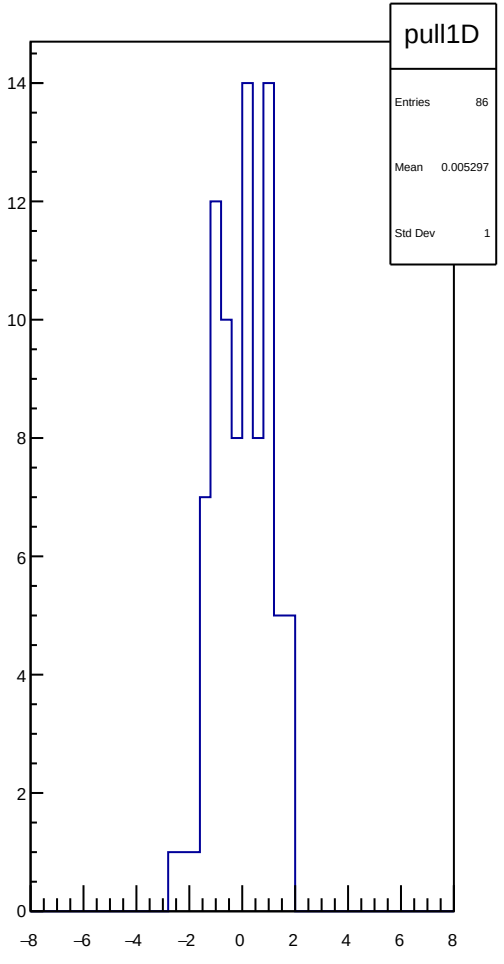

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.705e+04 / 85
p0 156.2 ± 0.1209
220
200
180
160
140
120

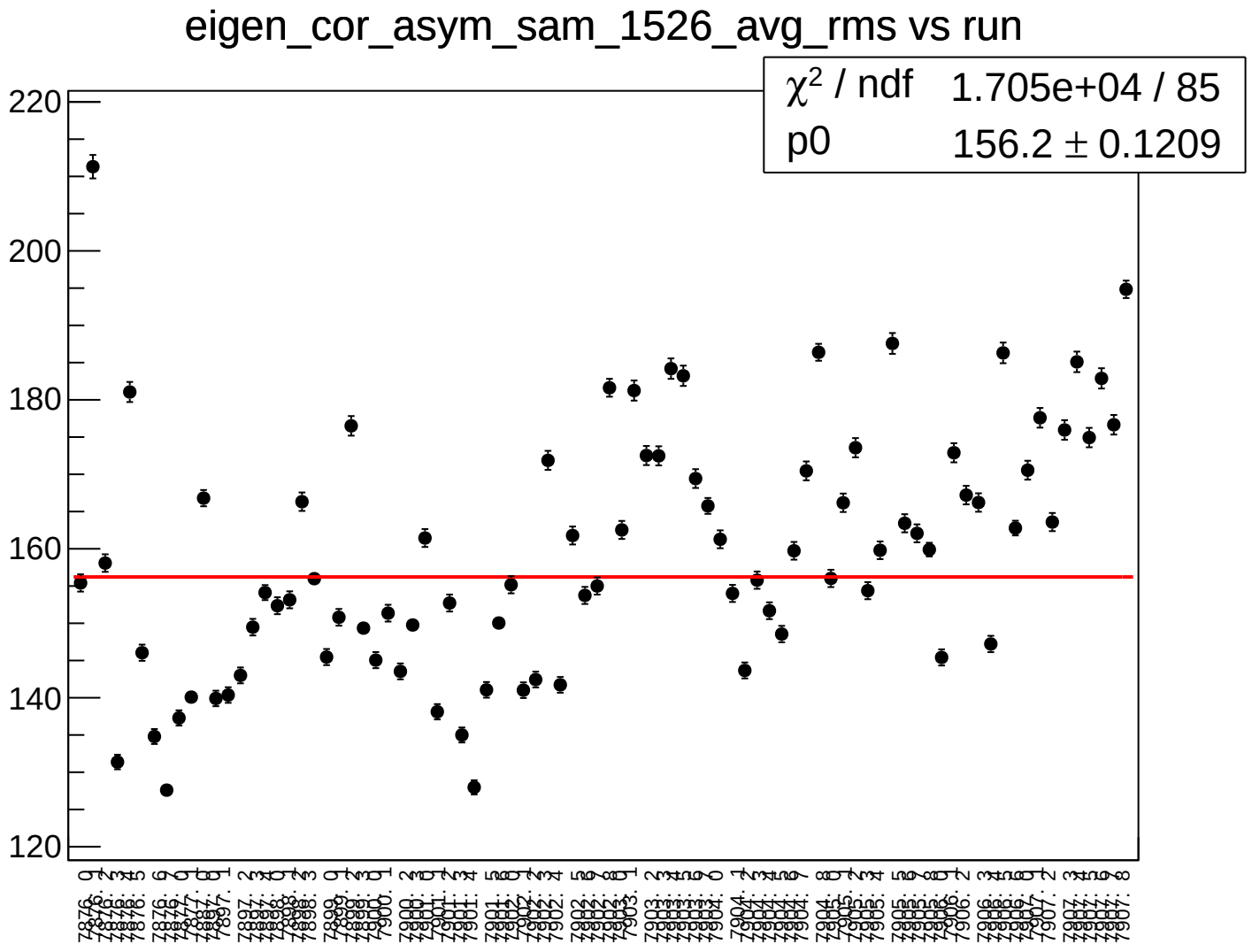

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 85.06 / 85
p0 −1891 ± 1162
pull
Entries 86
Mean −26.62
Std Dev 32.91

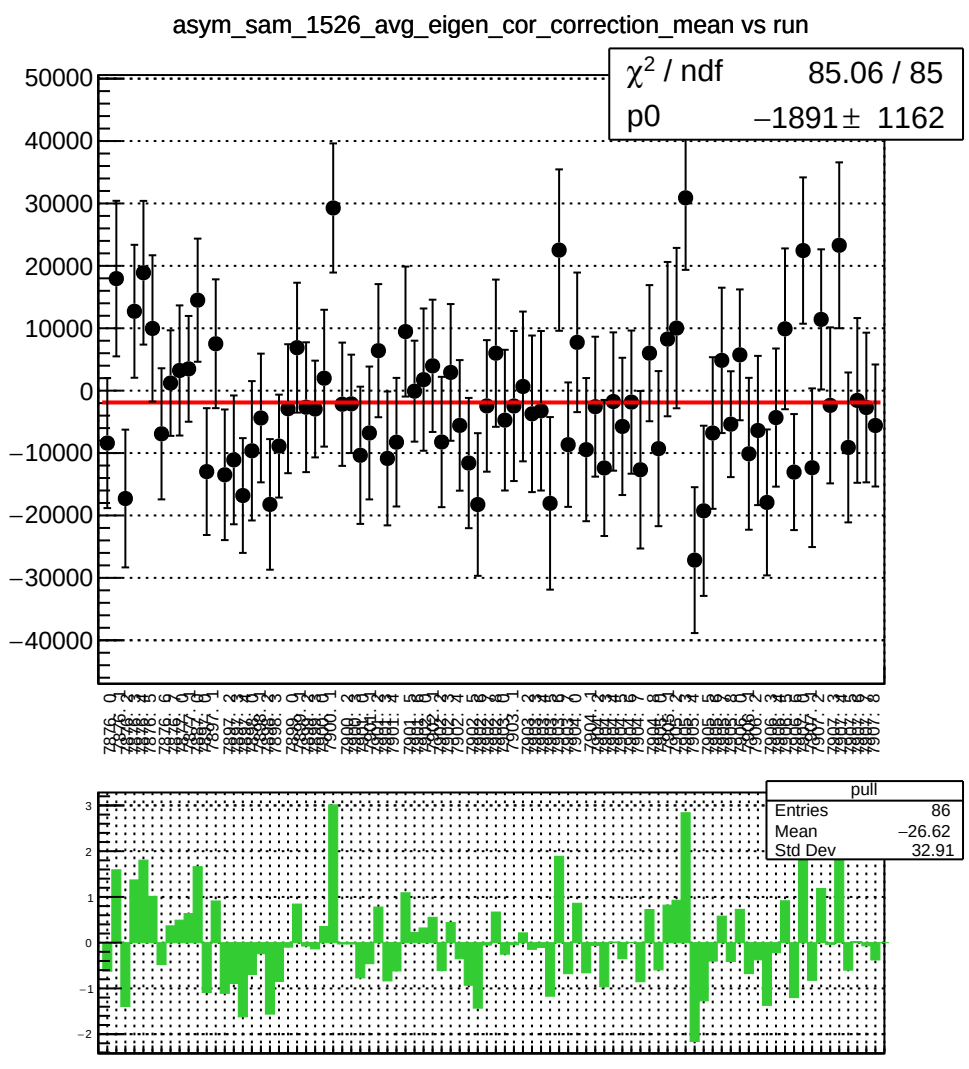

pull1D
Entries 86
Mean 0.01152
Std Dev 0.9944

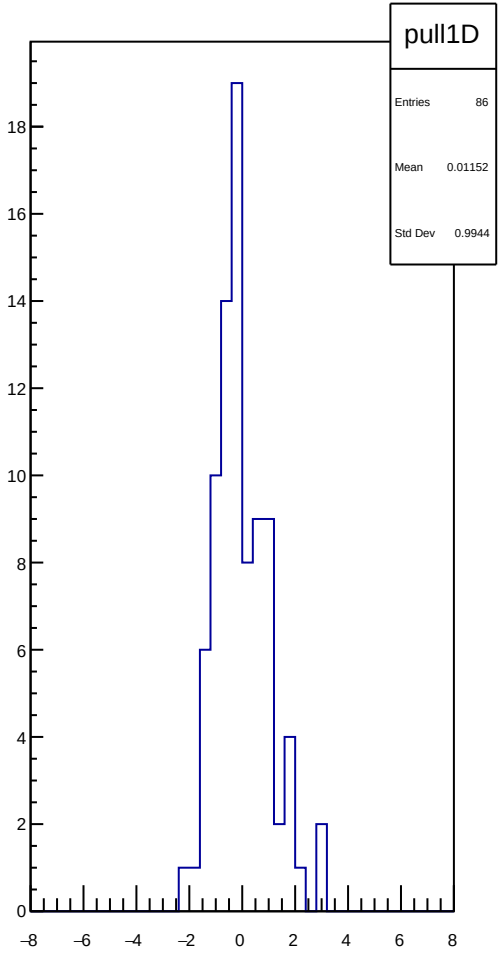

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.046e+04 / 85
p0 1064 ± 0.8216
1350
1300
1250
1200
1150
1100
1050
1000
950
900

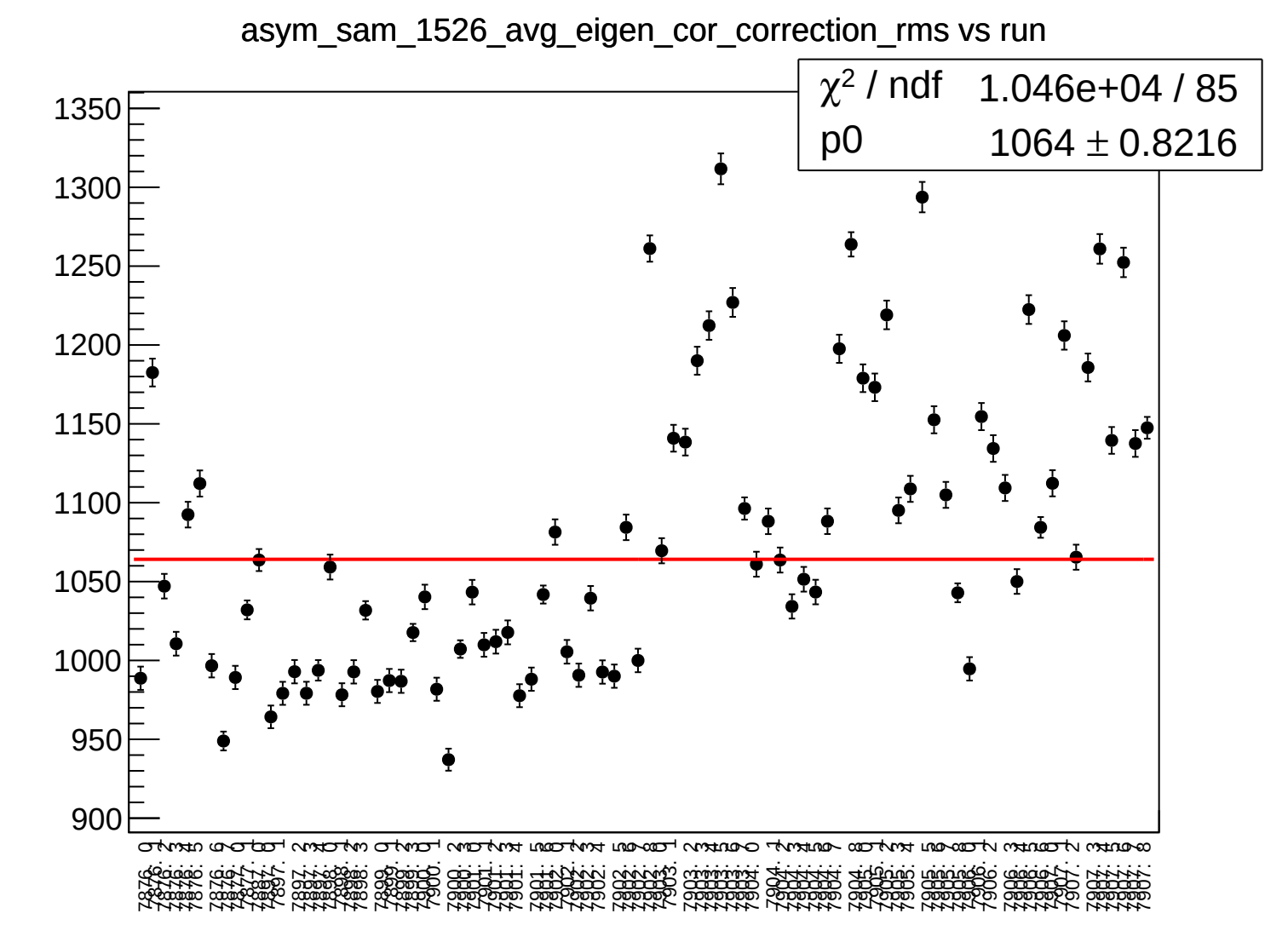

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 86.07 / 85
p0 −106.7 ± 170.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −993.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

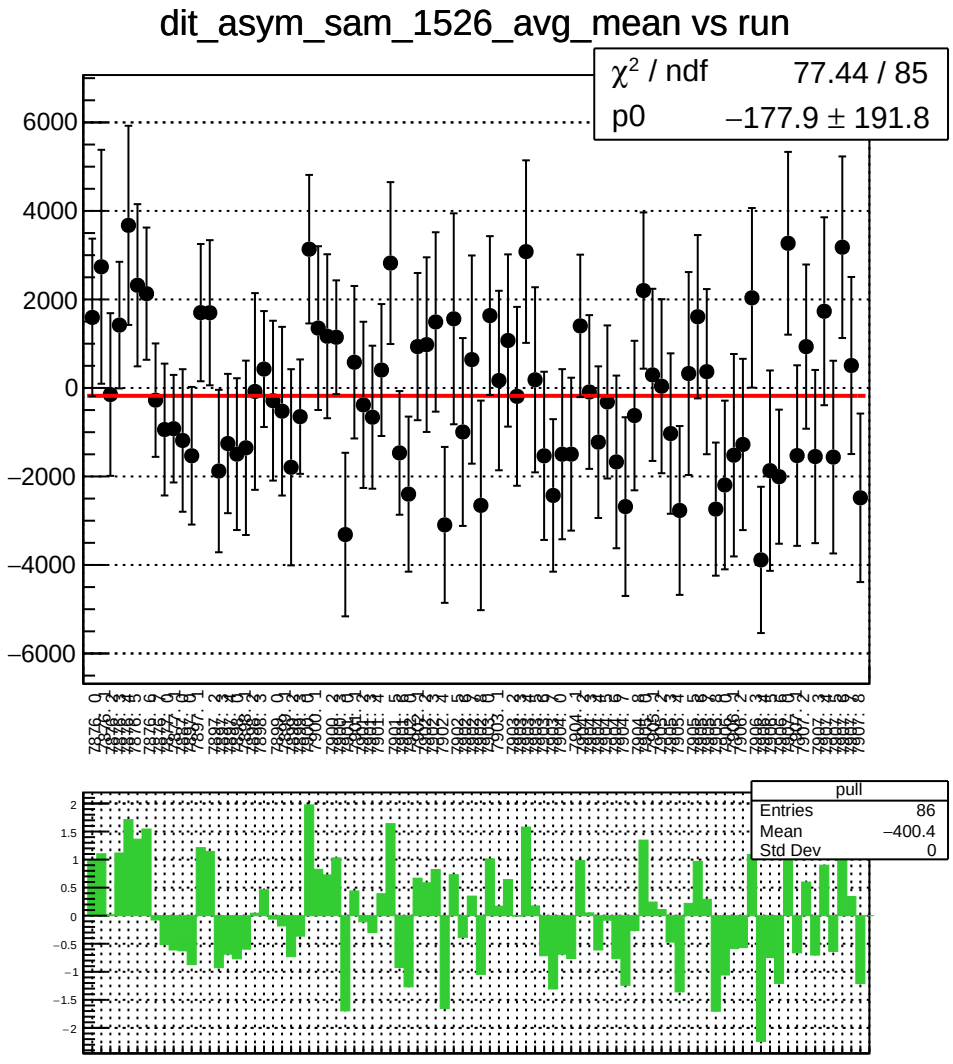

pull1D
Entries 86
Mean 0.005297
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

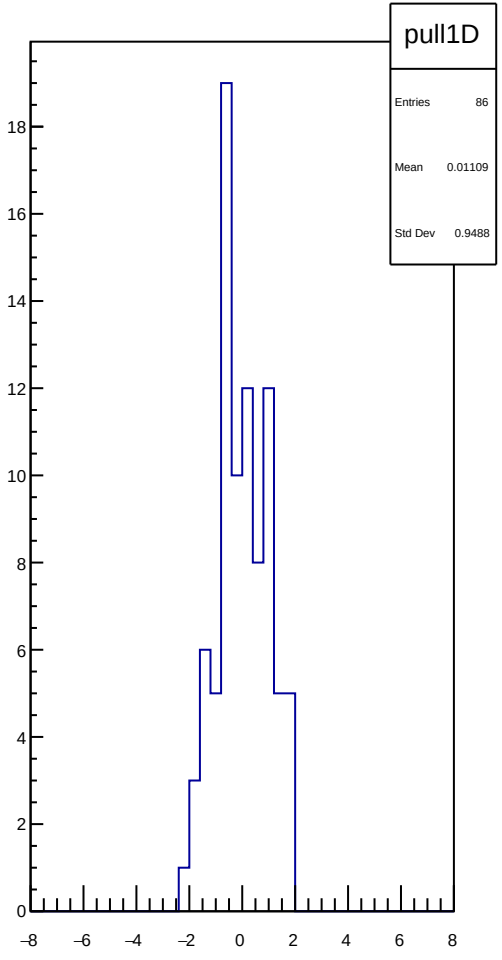

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.705e+04 / 85
p0 156.2 ± 0.1209
220
200
180
160
140
120

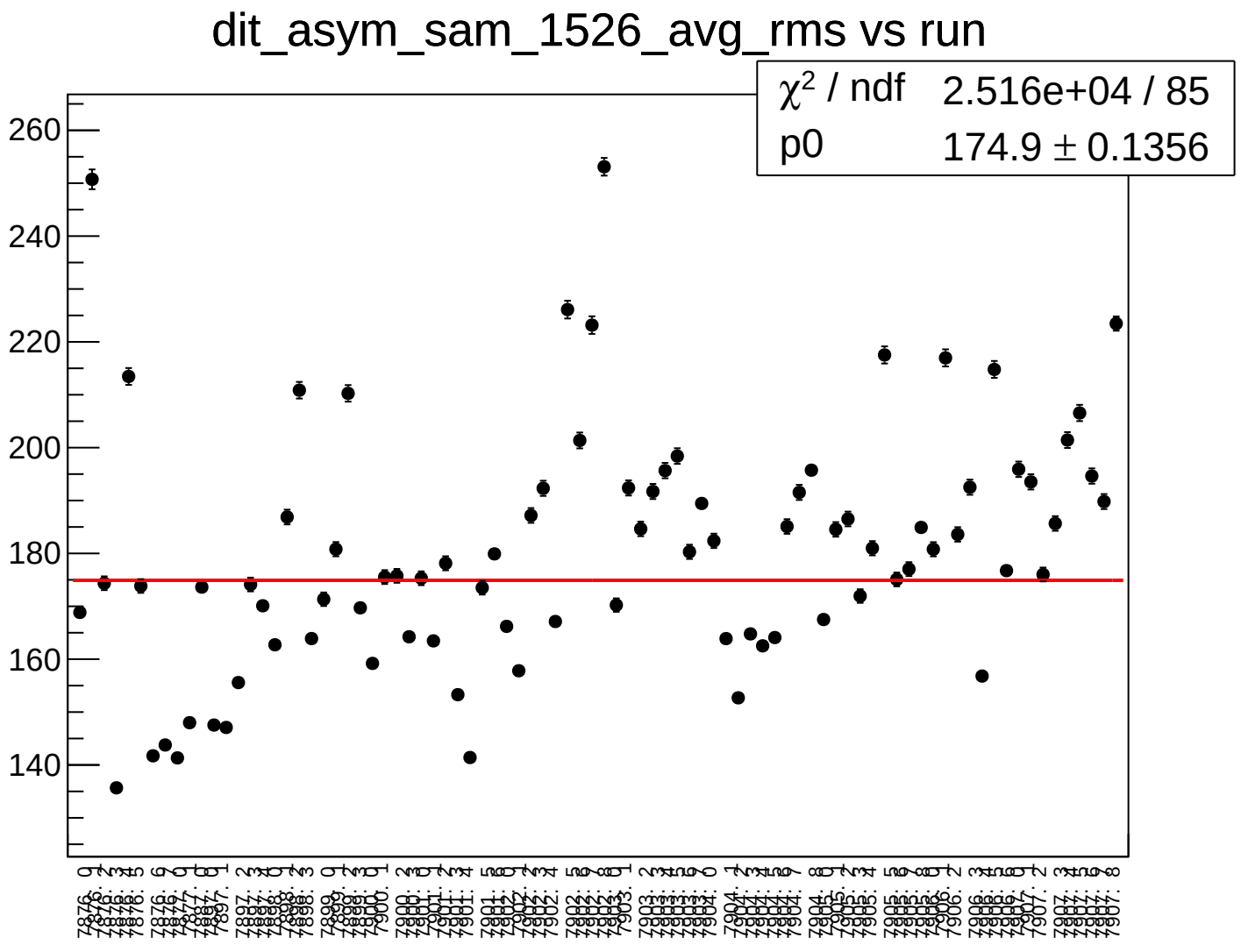

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.06 / 85
p0 −1891 ± 1162
pull
Entries 86
Mean −26.62
Std Dev 32.91

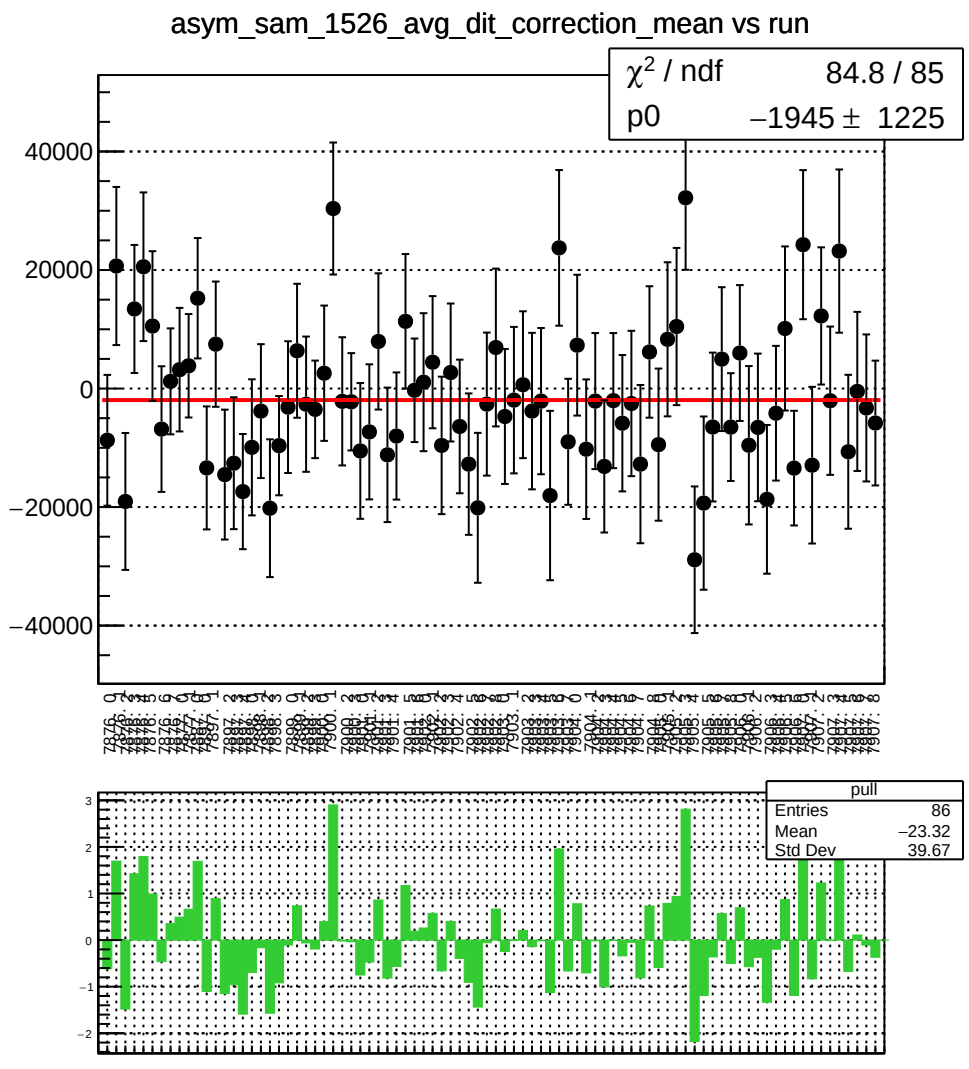

pull1D
Entries 86
Mean 0.01152
Std Dev 0.9944

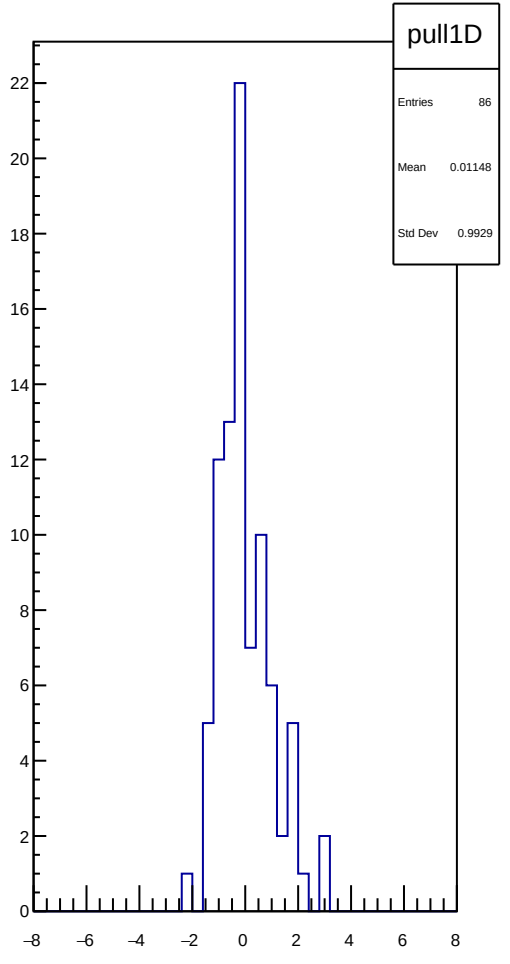

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.046e+04 / 85
p0 1064 ± 0.8216
1350
1300
1250
1200
1150
1100
1050
1000
950
900

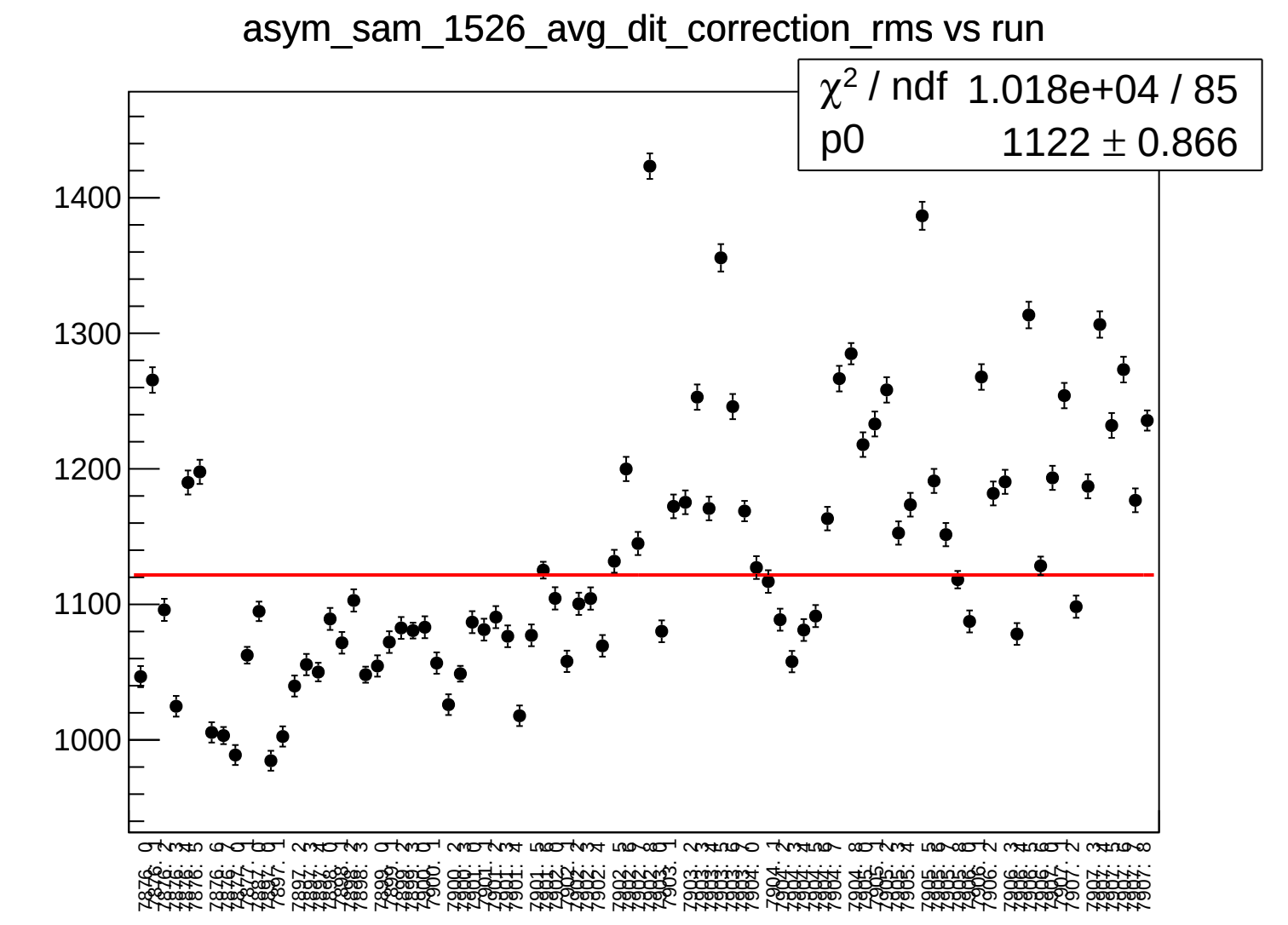

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 77.44 / 85
p0 −177.9 ± 191.8
pull
Entries 86
Mean −400.4
Std Dev 0

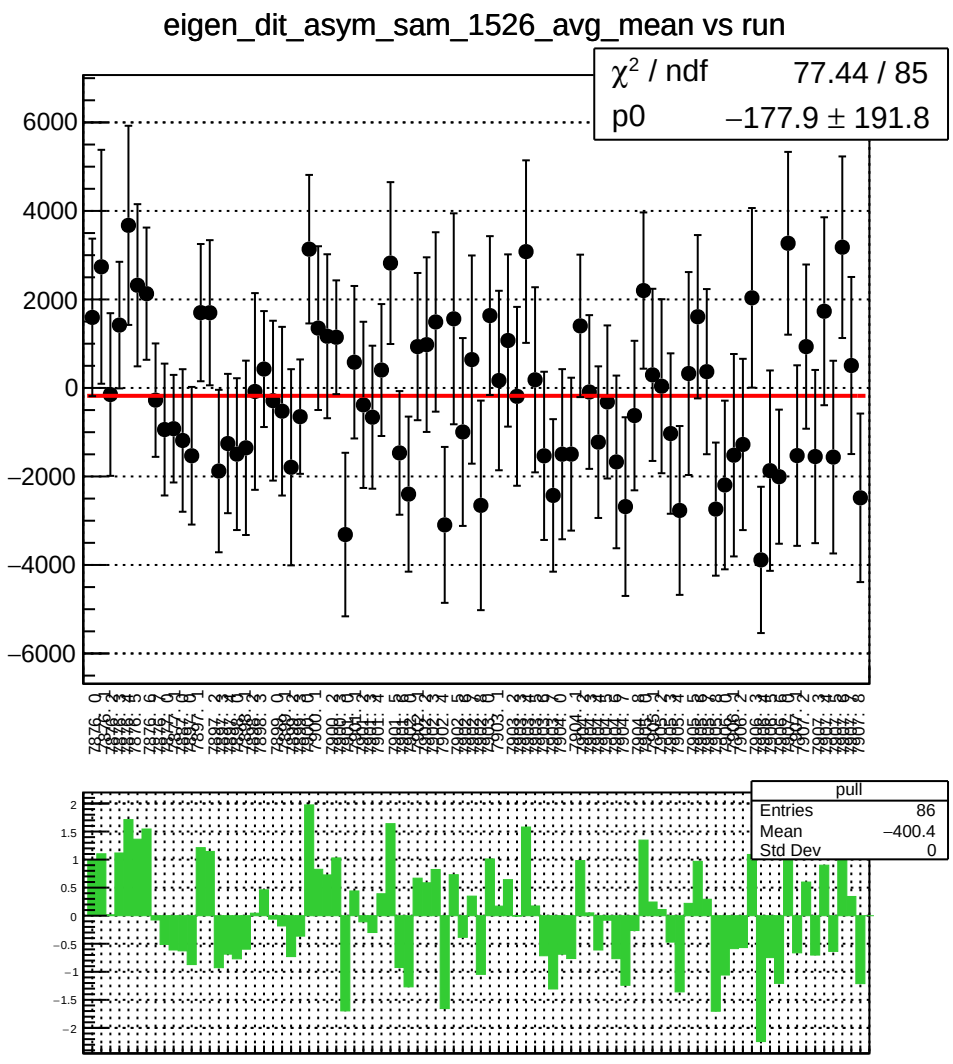

pull1D
Entries 86
Mean 0.01109
Std Dev 0.9488

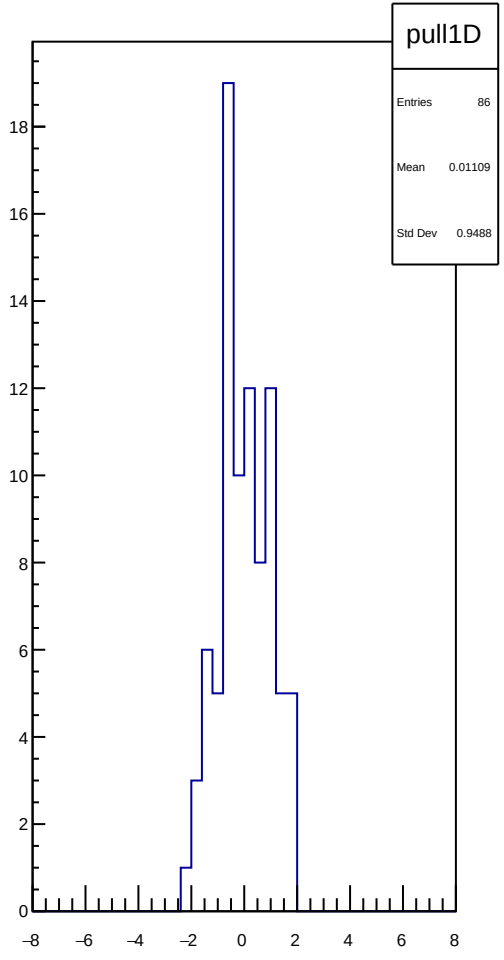

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.516e+04 / 85
p0 174.9 ± 0.1356
260
240
220
200
180
160
140

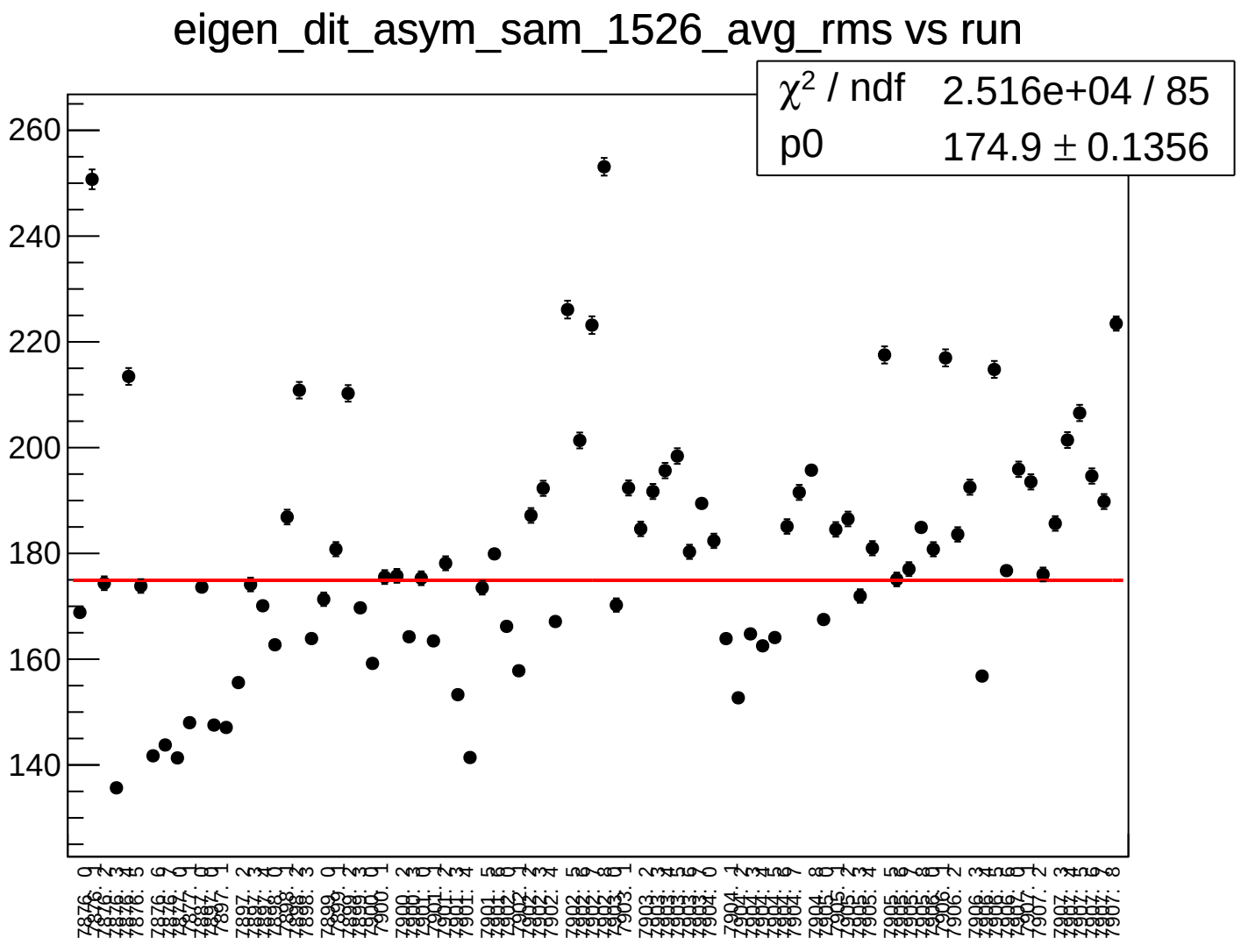

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 84.8 / 85
p0 −1945 ± 1225
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −23.32
Std Dev 39.67
3
2
1
0
−1
−2

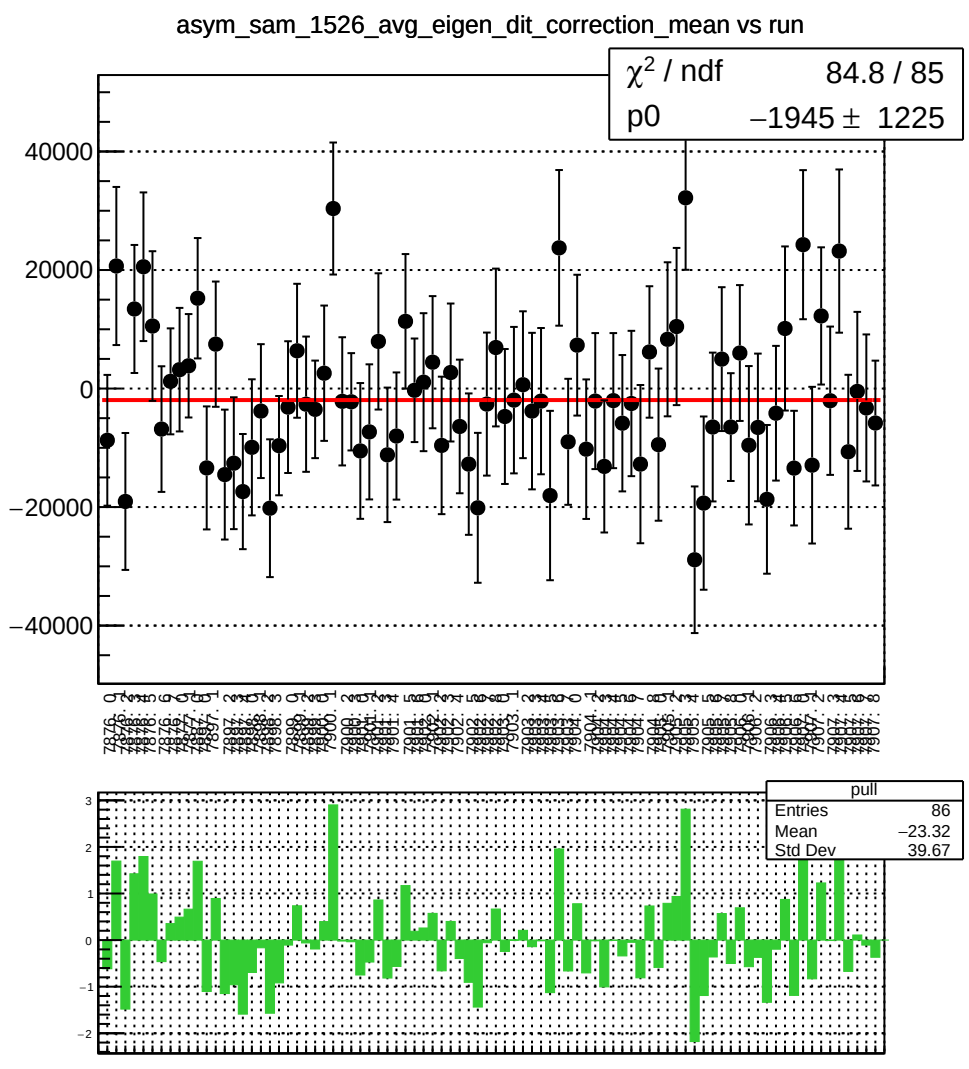

pull1D
Entries 86
Mean 0.01148
Std Dev 0.9929
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

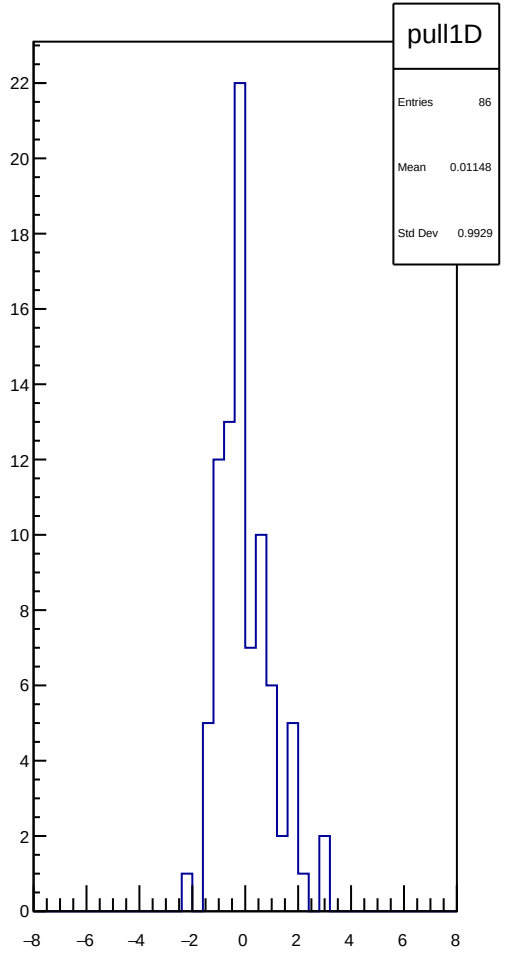

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.018e+04 / 85
p0 1122 ± 0.866
1400
1300
1200
1100
1000

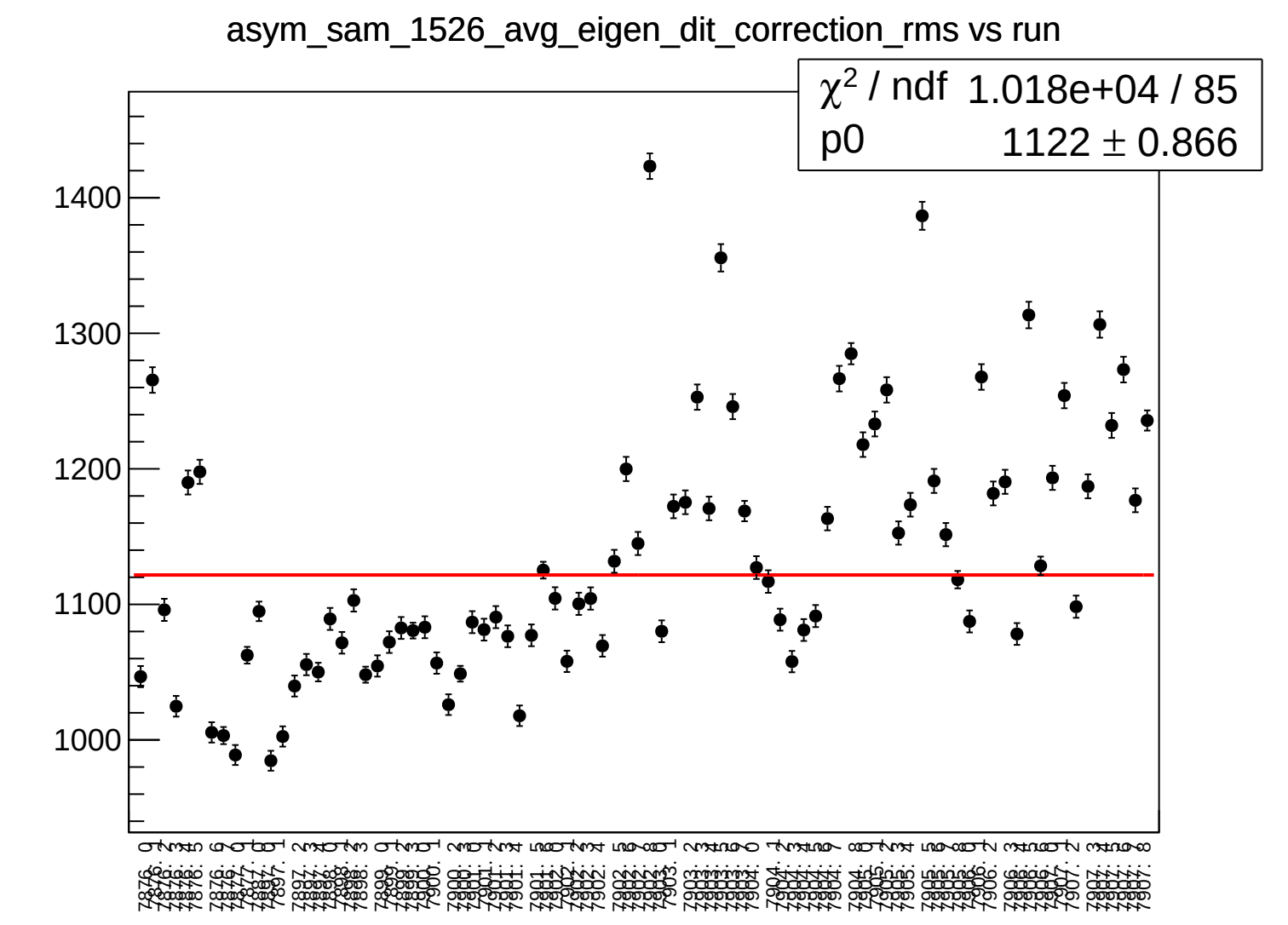

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 77.44 / 85
p0 −177.9 ± 191.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −400.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

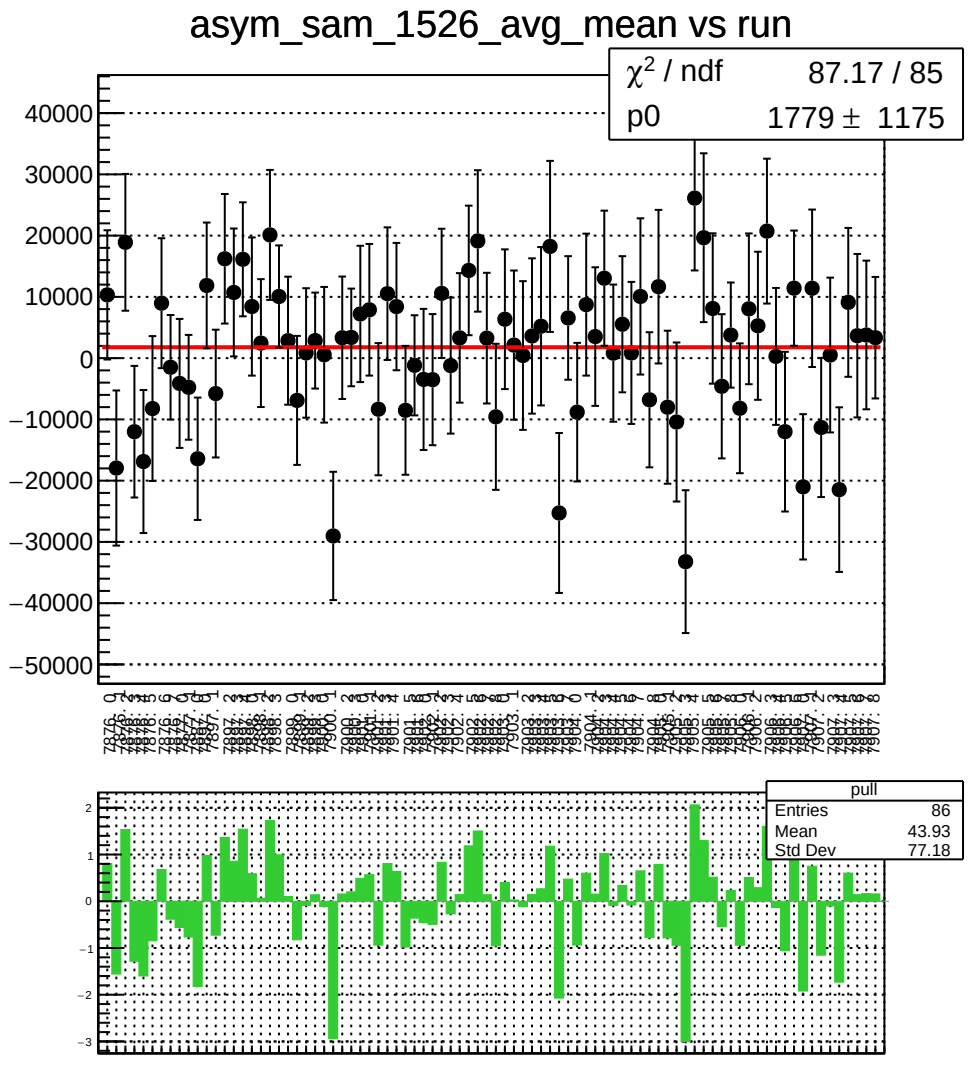

pull1D
Entries 86
Mean 0.01109
Std Dev 0.9488
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

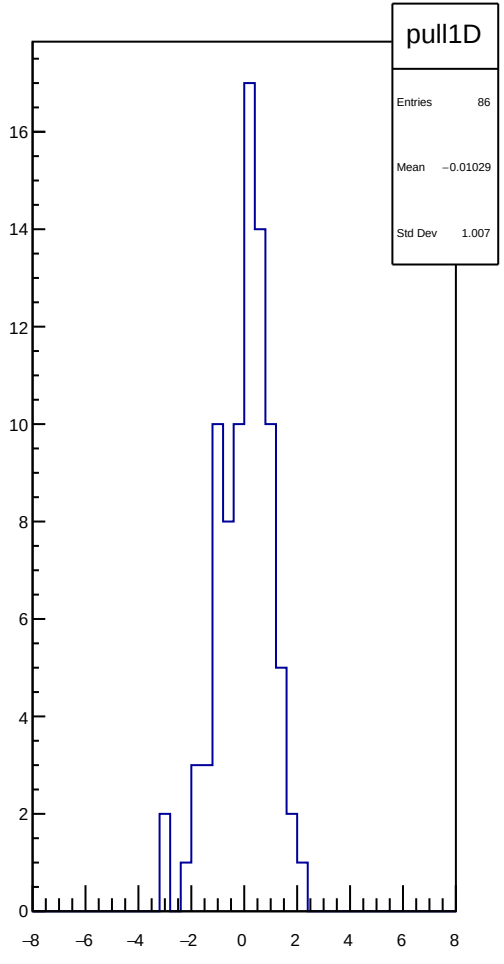

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.516e+04 / 85
p0 174.9 ± 0.1356
260
240
220
200
180
160
140

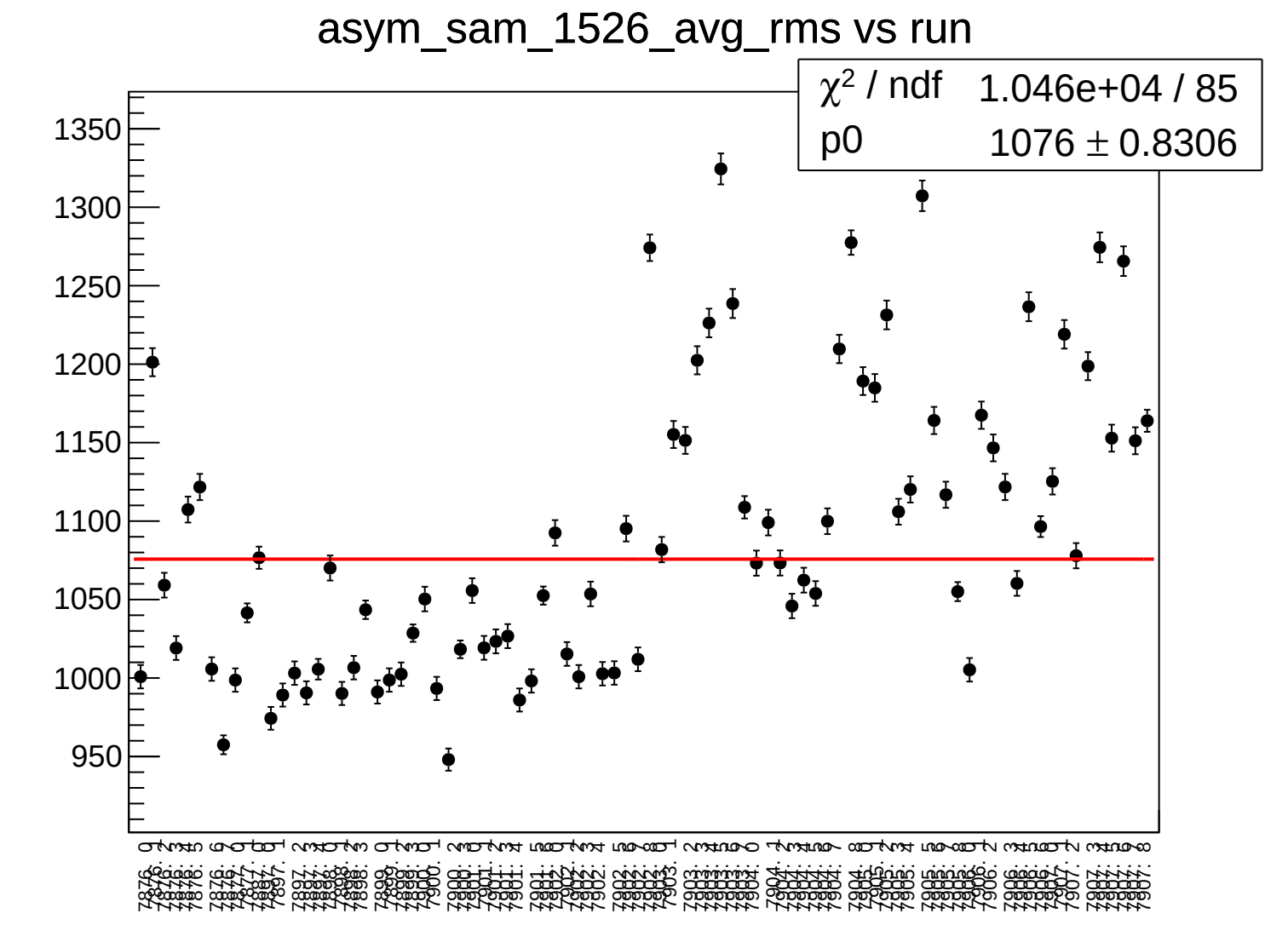

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.8 / 85
p0 −1945 ± 1225
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −23.32
Std Dev 39.67
3
2
1
0
−1
−2

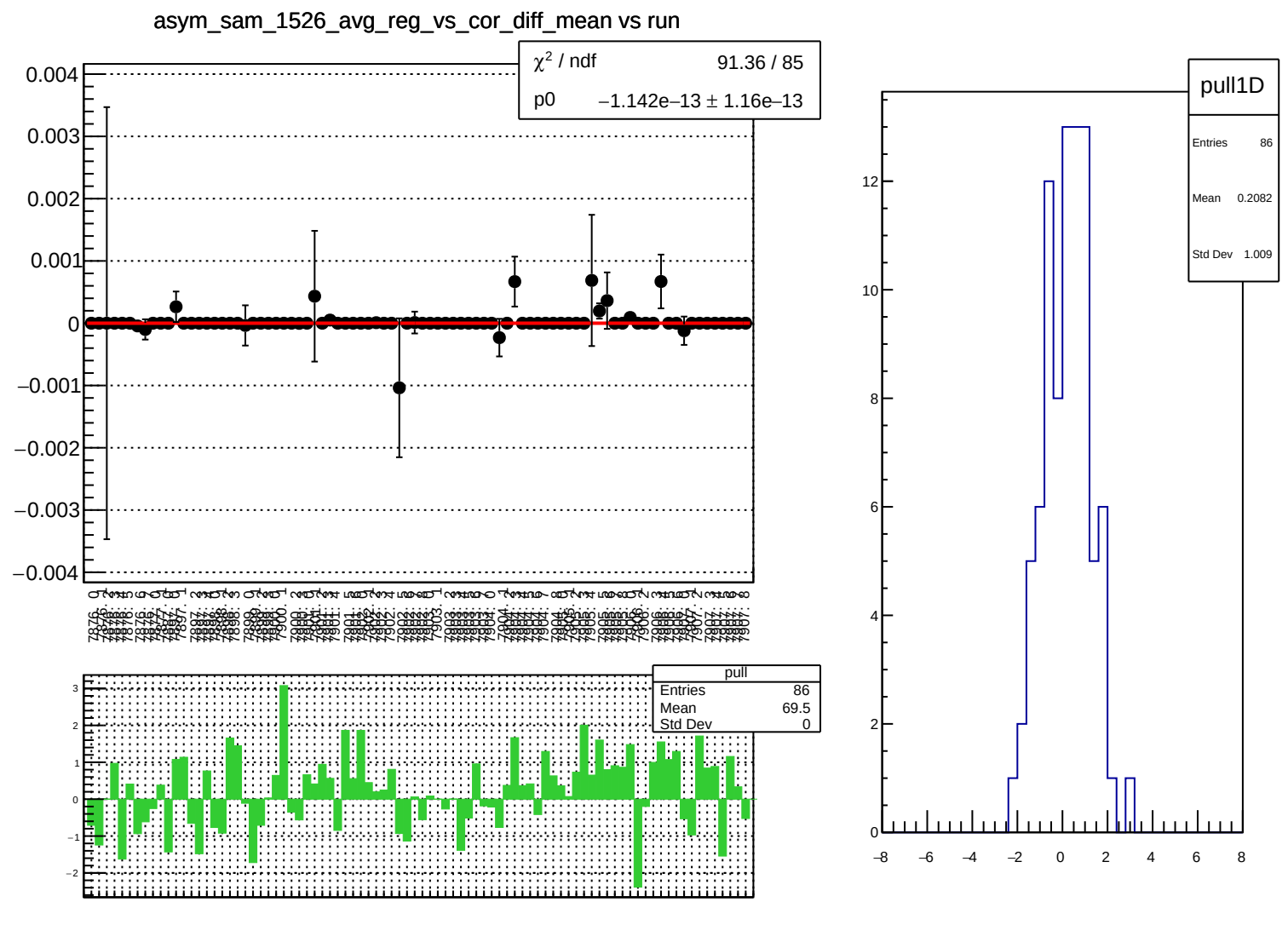

pull1D
Entries 86
Mean 0.01148
Std Dev 0.9929
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

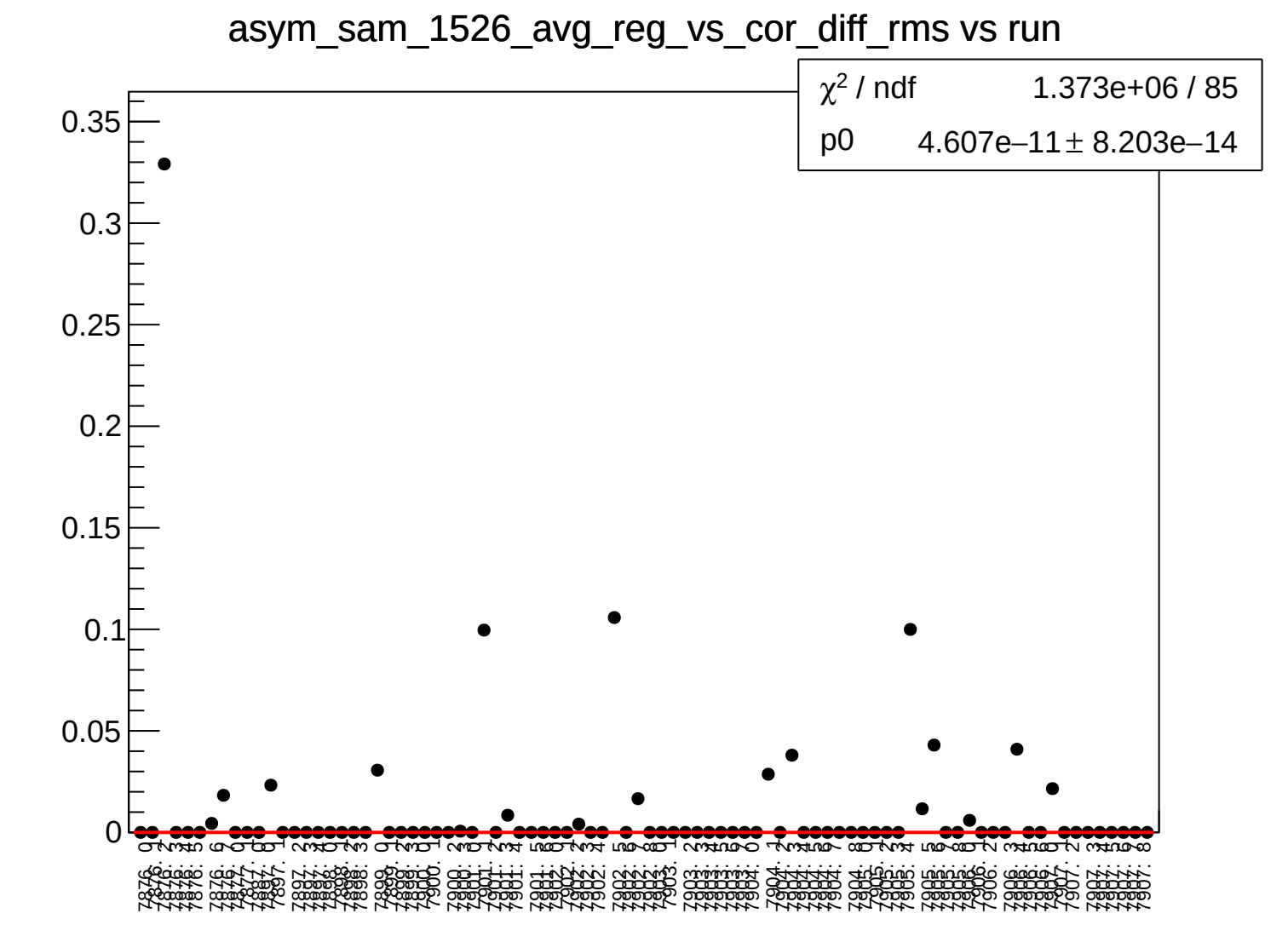

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 1.018e+04 / 85
p0 1122 ± 0.866
1400
1300
1200
1100
1000

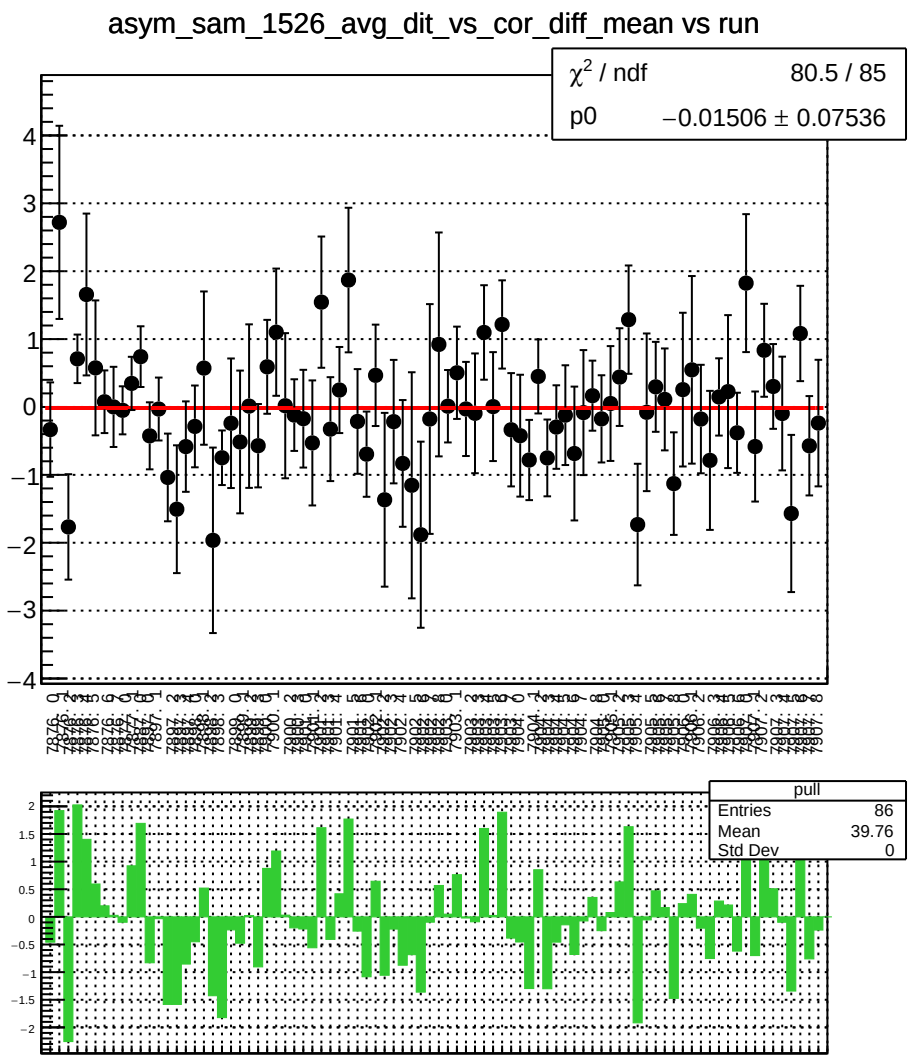

asym_sam_1526_avg_mean vs run
χ² / ndf 87.17 / 85
p0 1779 ± 1175
pull
Entries 86
Mean 43.93
Std Dev 77.18

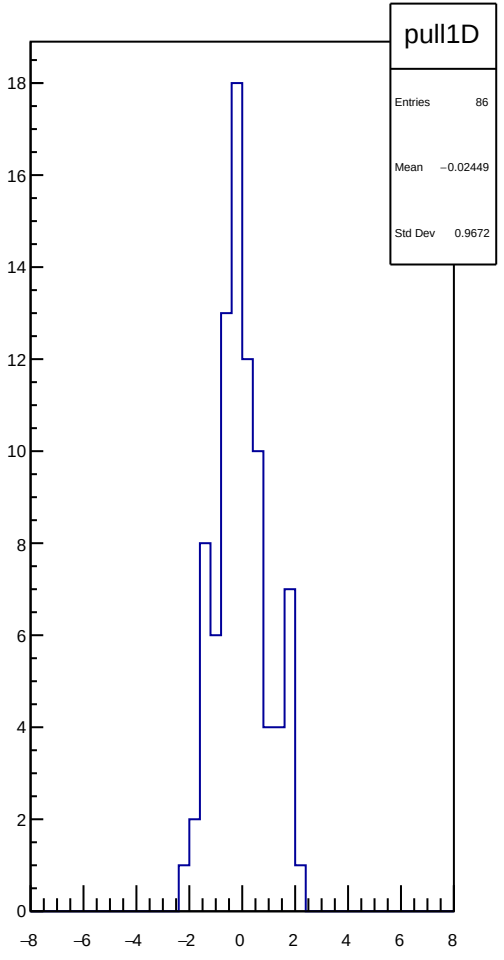

pull1D
Entries 86
Mean −0.01029
Std Dev 1.007

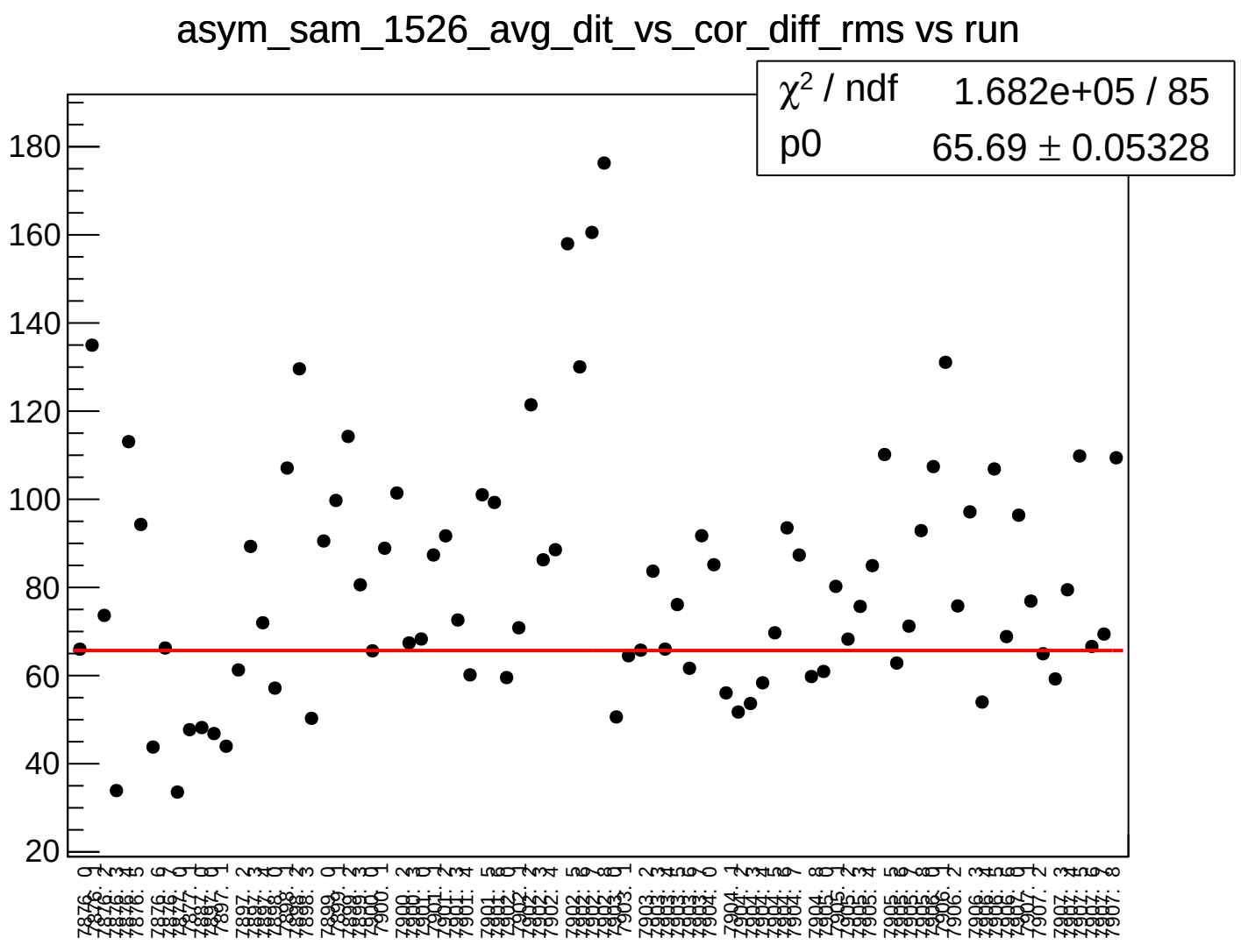

asym_sam_1526_avg_rms vs run
χ² / ndf 1.046e+04 / 85
p0 1076 ± 0.8306
1350
1300
1250
1200
1150
1100
1050
1000
950

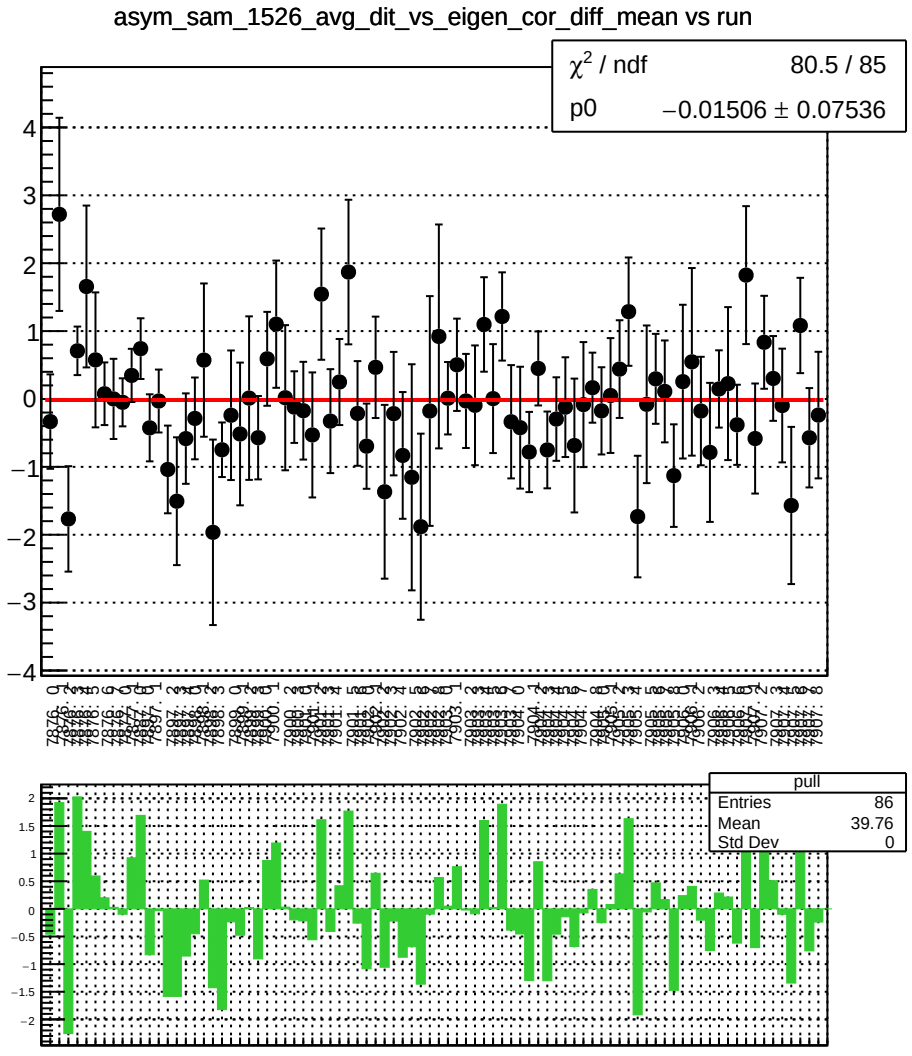

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.36 / 85
p0 −1.142e−13 ± 1.16e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 86
Mean 69.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.2082
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

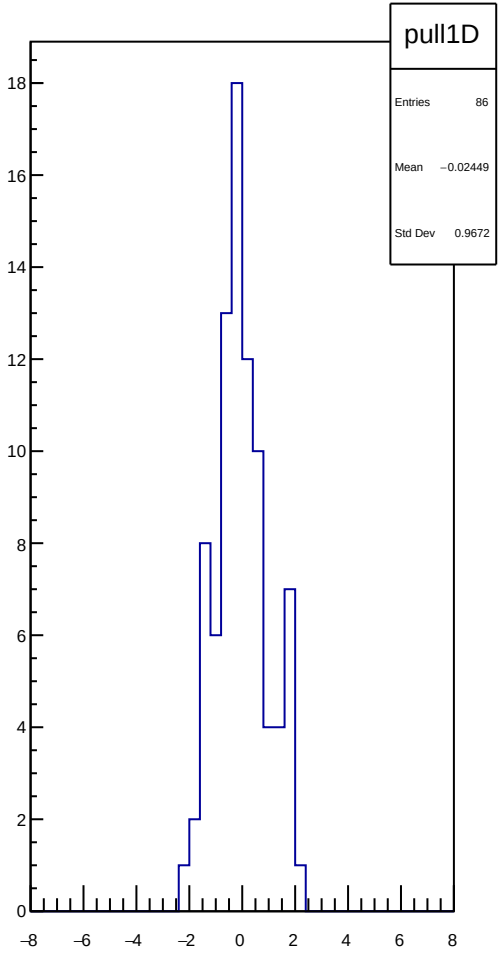

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.373e+06 / 85
p0 4.607e−11 ± 8.203e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

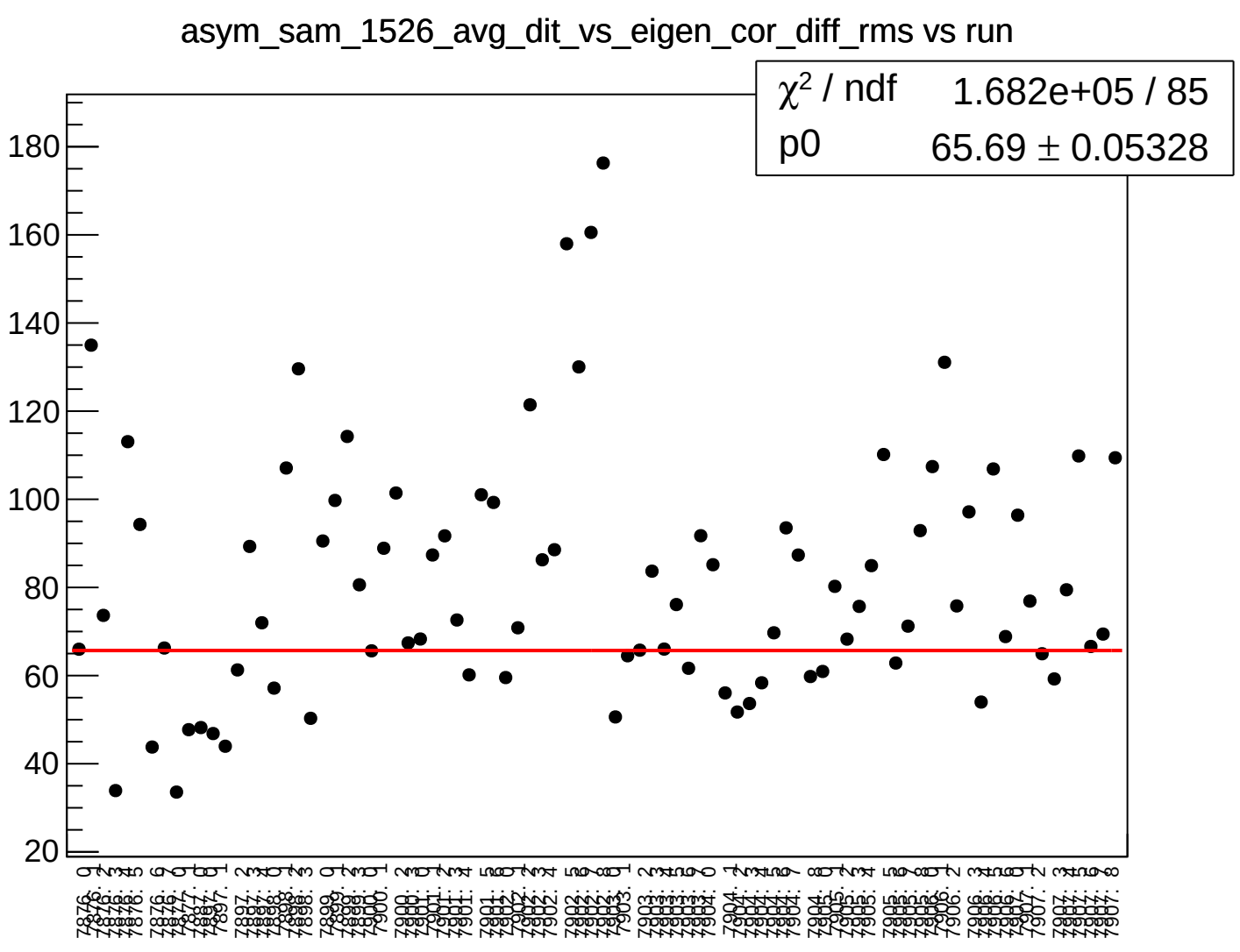

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.5 / 85
p0 −0.01506 ± 0.07536
pull
Entries 86
Mean 39.76
Std Dev 0

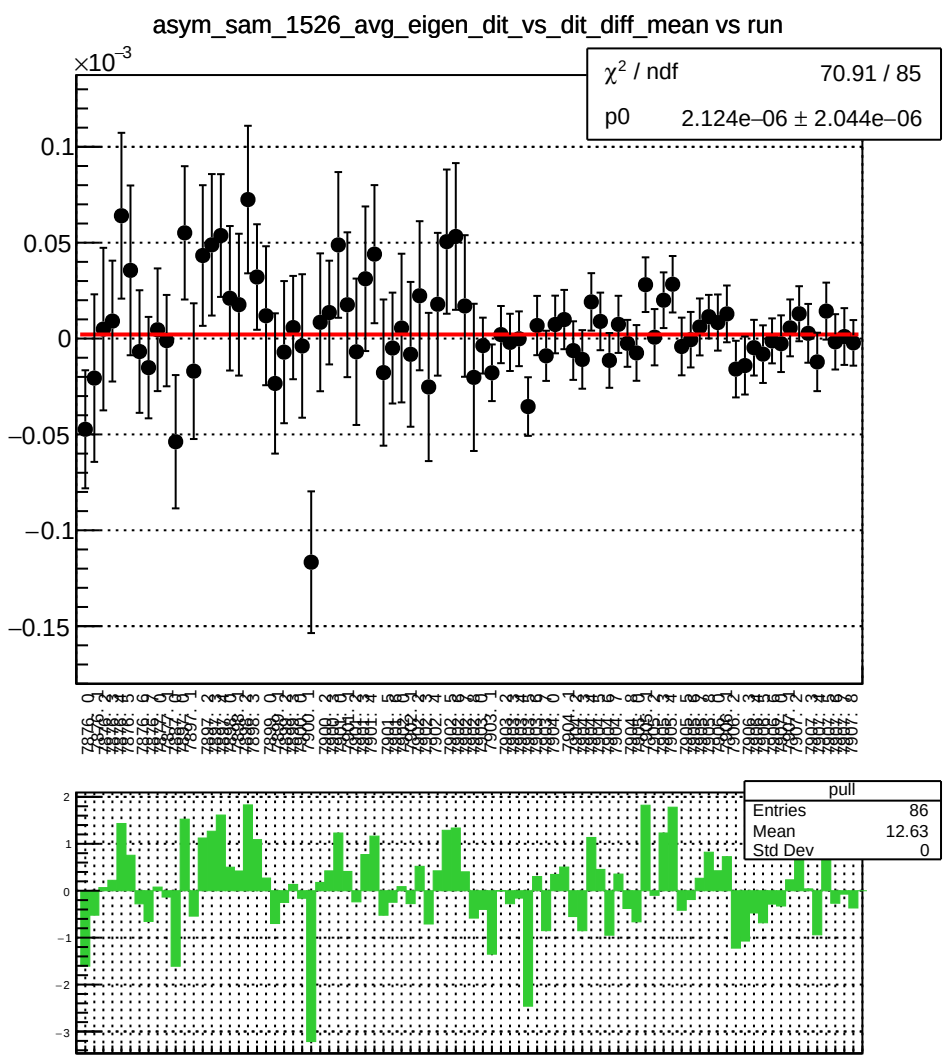

pull1D
Entries 86
Mean −0.02449
Std Dev 0.9672

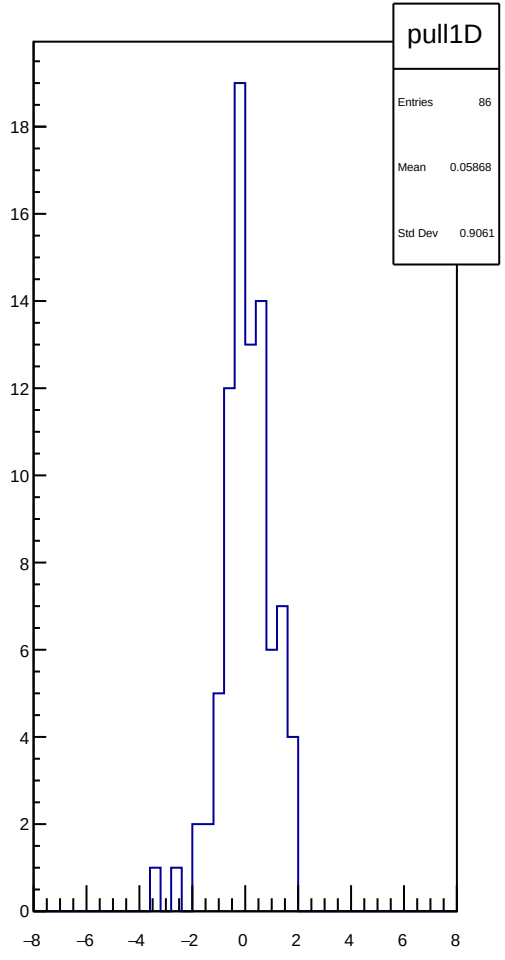

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.682e+05 / 85
p0 65.69 ± 0.05328
180
160
140
120
100
80
60
40
20

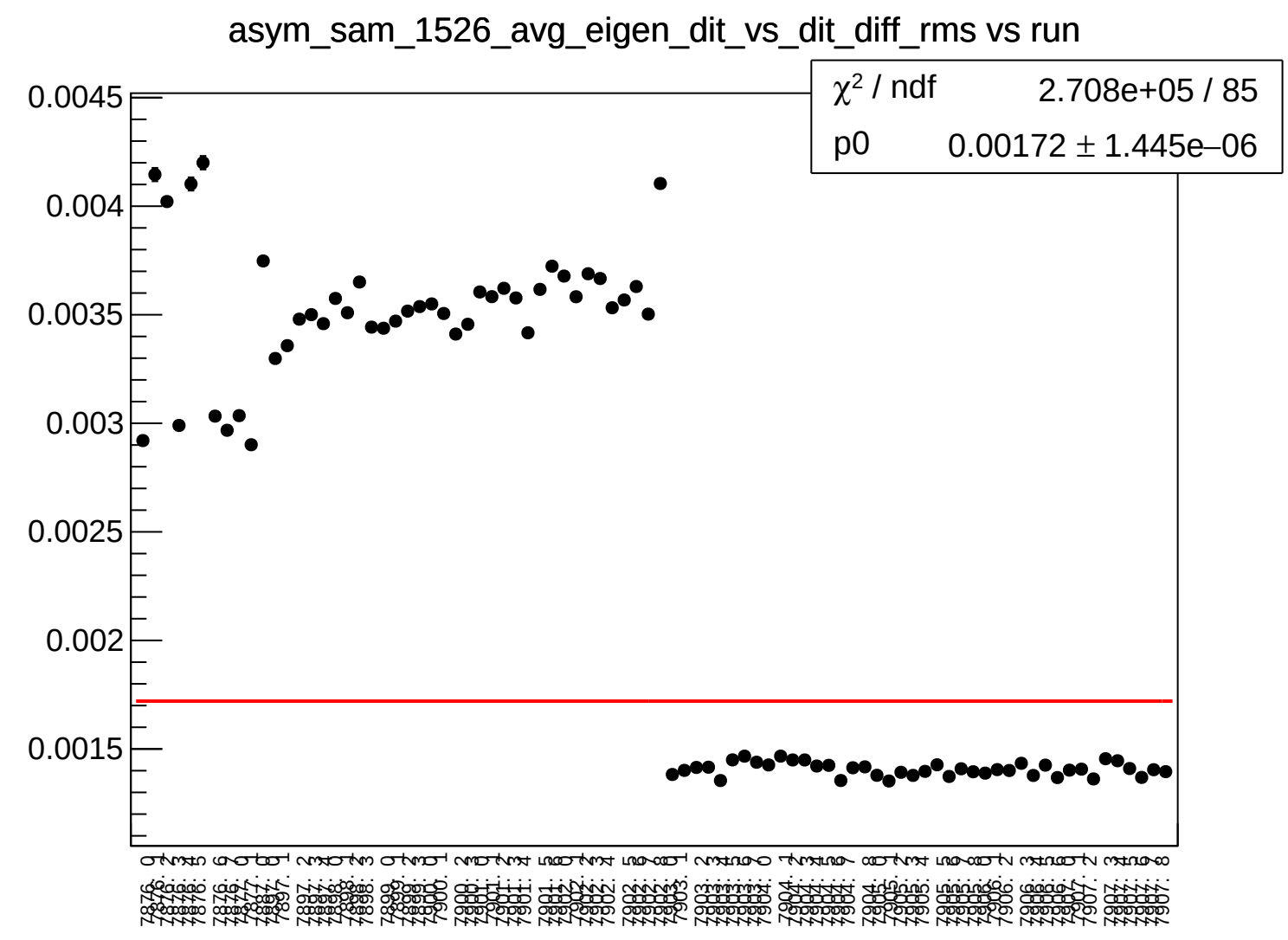

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.5 / 85
p0 −0.01506 ± 0.07536
pull
Entries 86
Mean 39.76
Std Dev 0

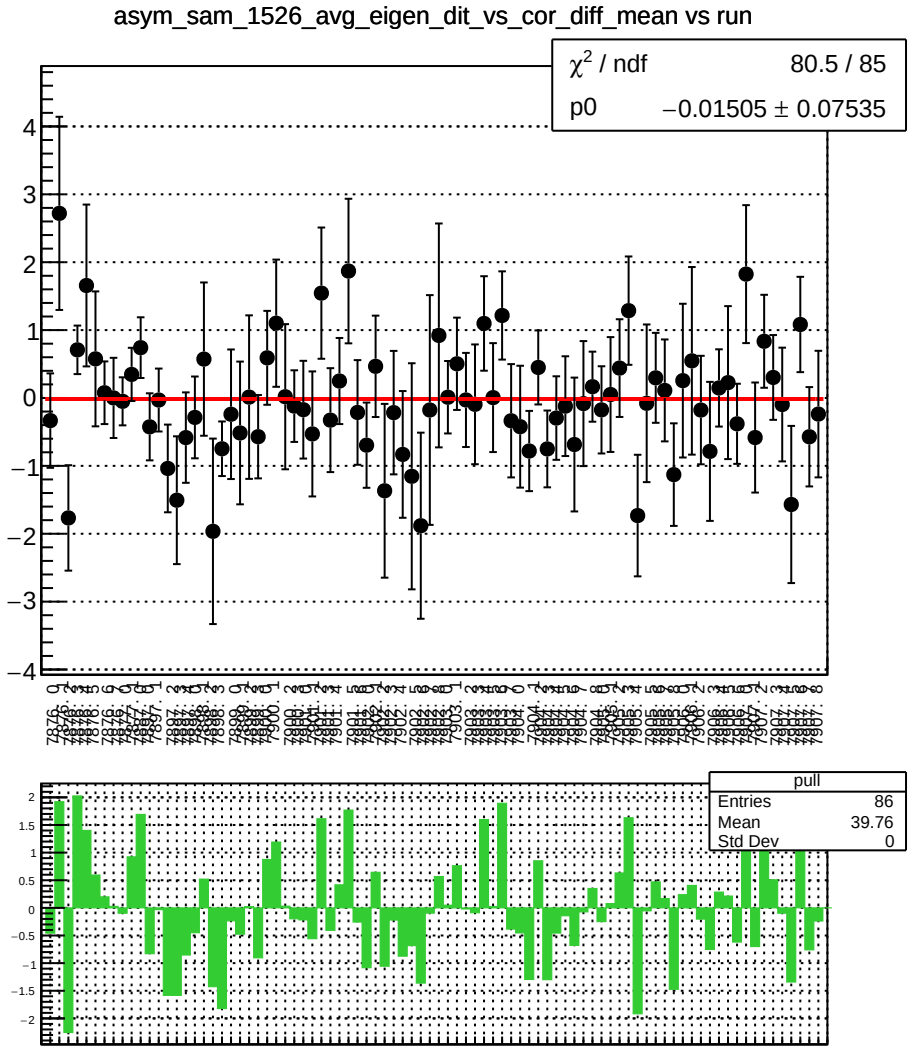

pull1D
Entries 86
Mean −0.02449
Std Dev 0.9672

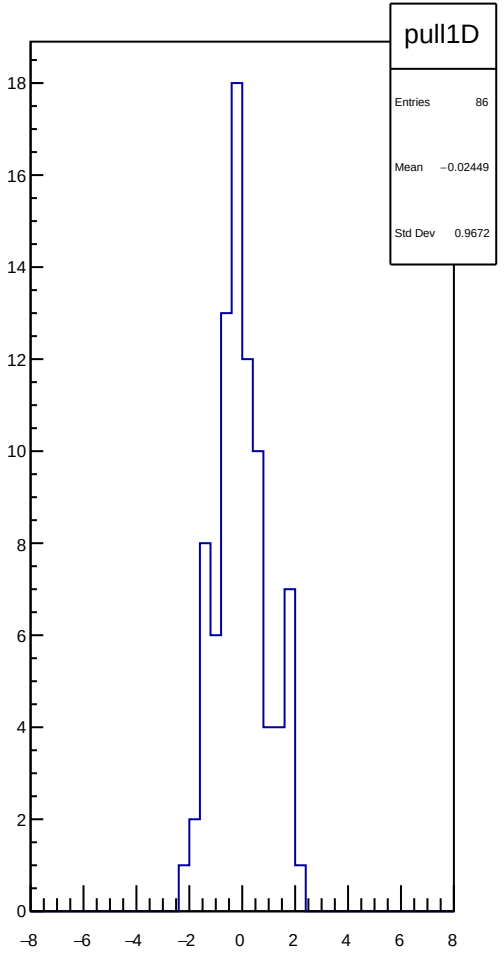

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.682e+05 / 85
p0 65.69 ± 0.05328
180
160
140
120
100
80
60
40
20

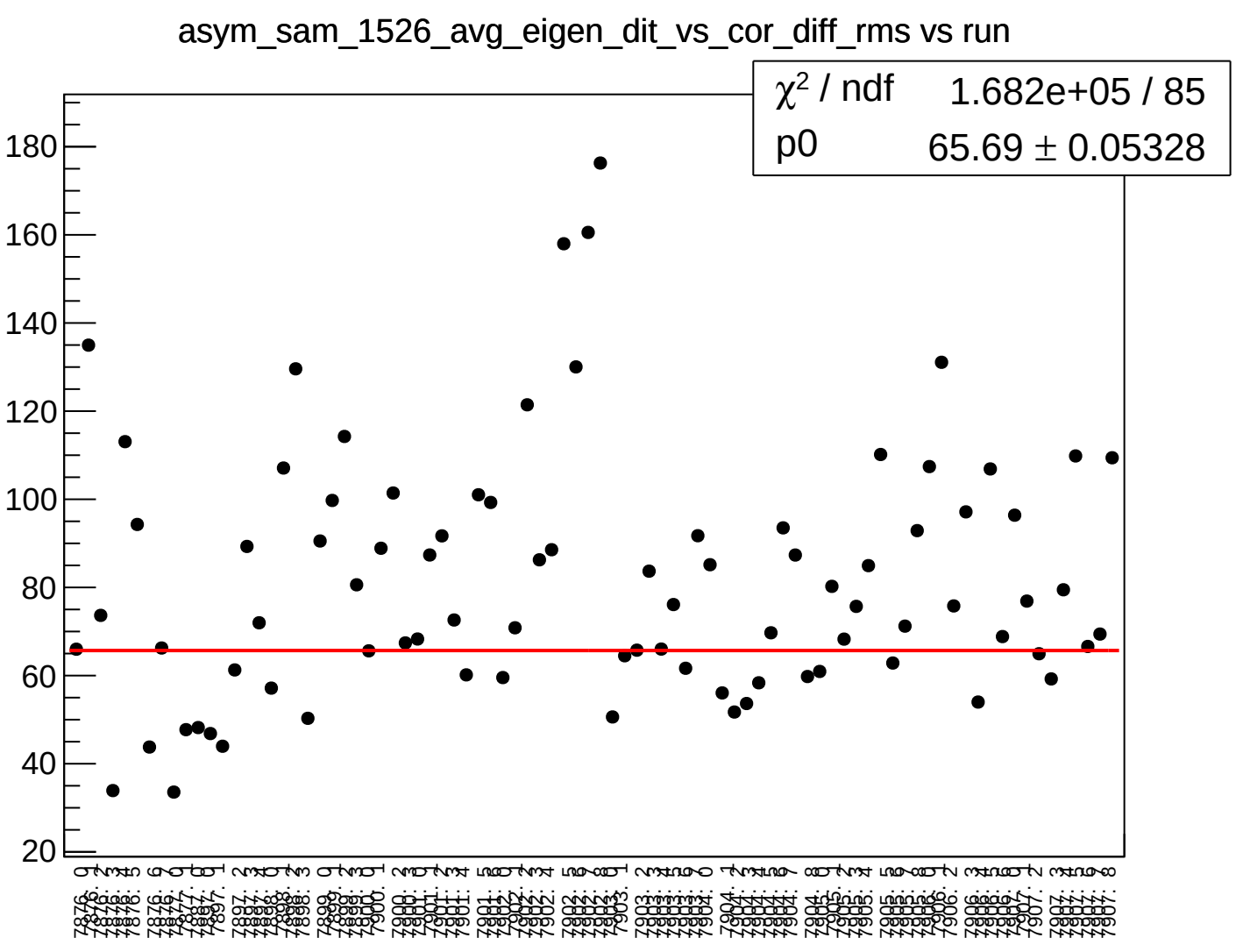

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.91 / 85
p0 2.124e−06 ± 2.044e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 12.63
Std Dev 0
2
1
0
−1
−2
−3

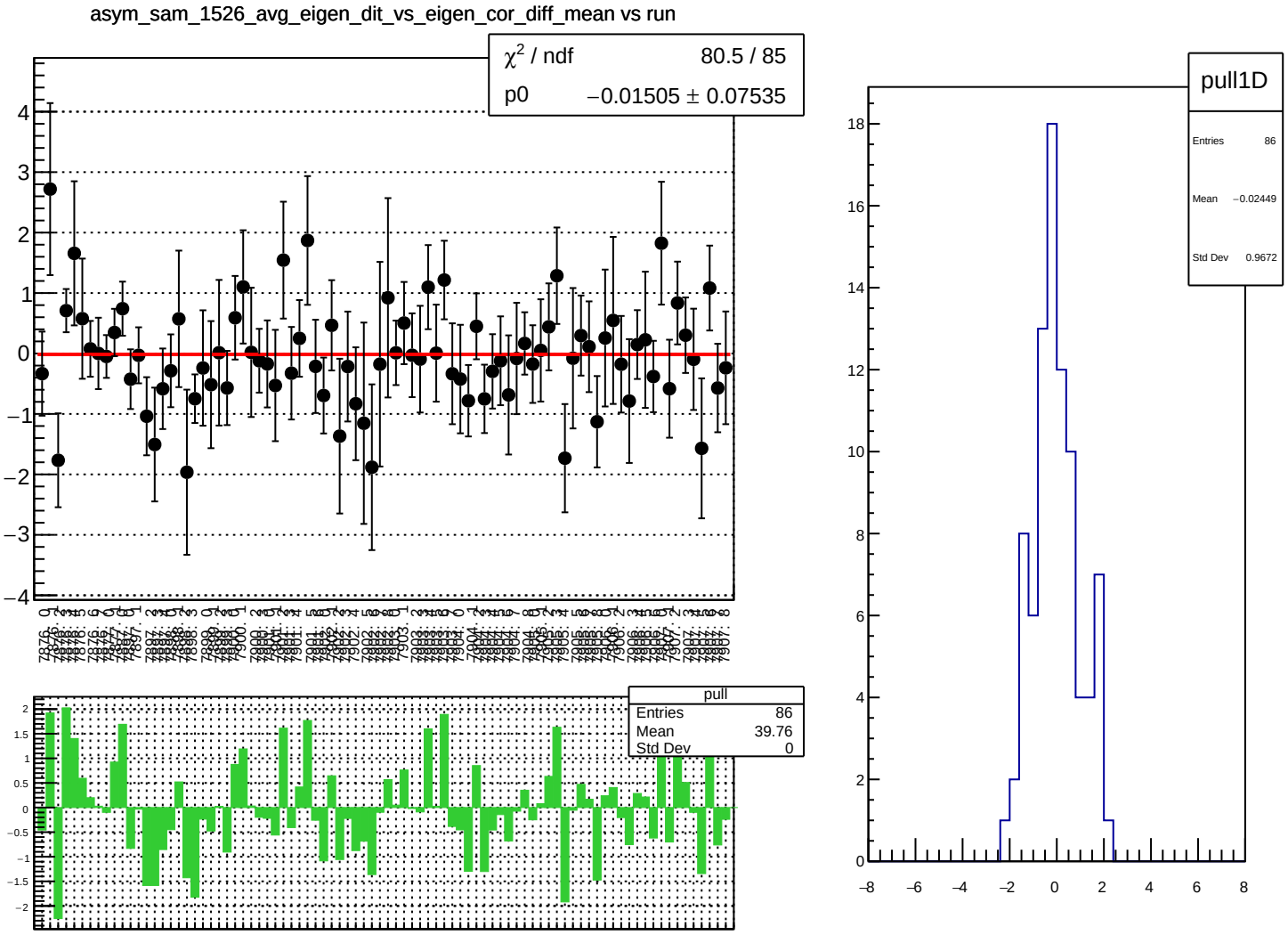

pull1D
Entries 86
Mean 0.05868
Std Dev 0.9061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

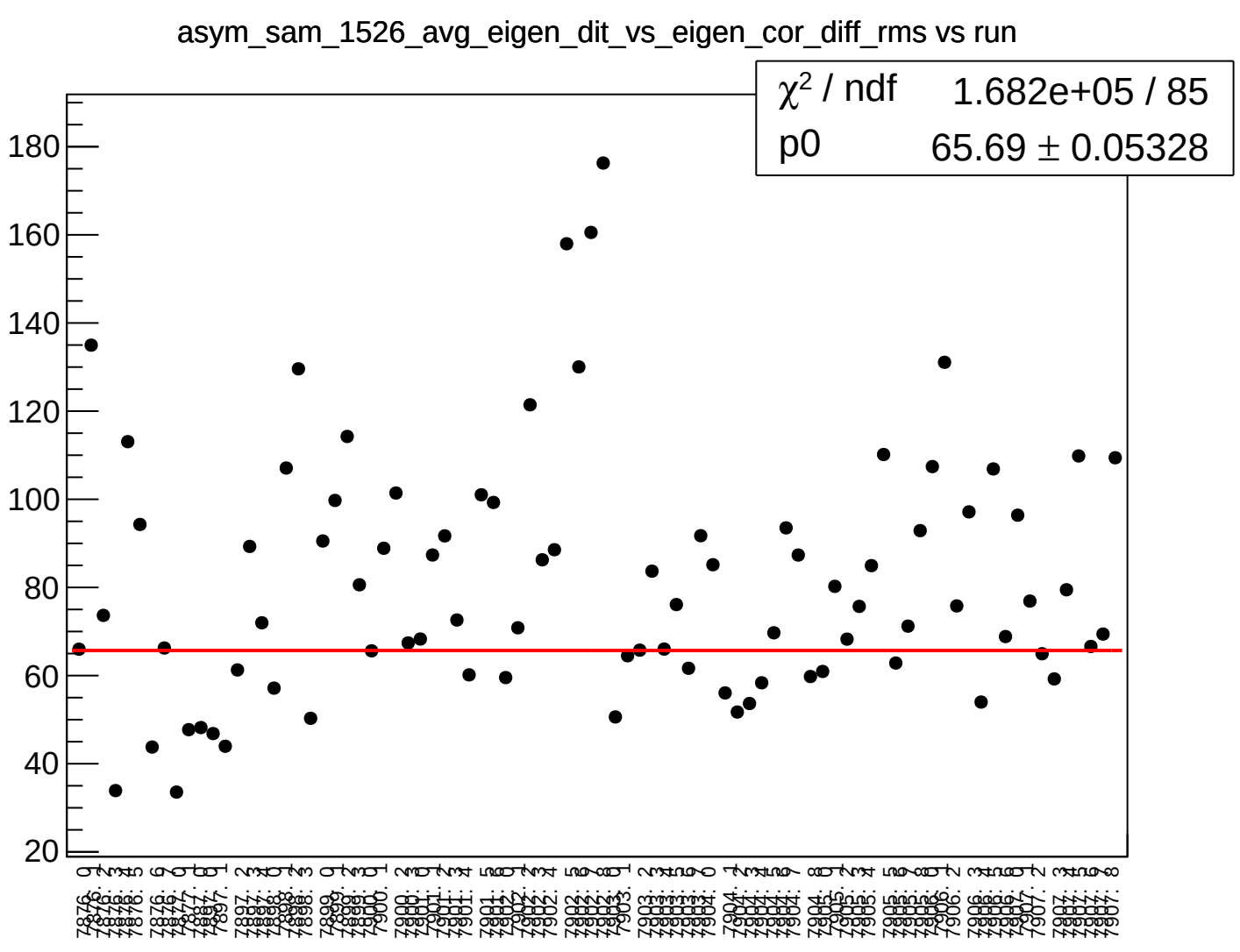

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.708e+05 / 85
p0 0.00172 ± 1.445e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

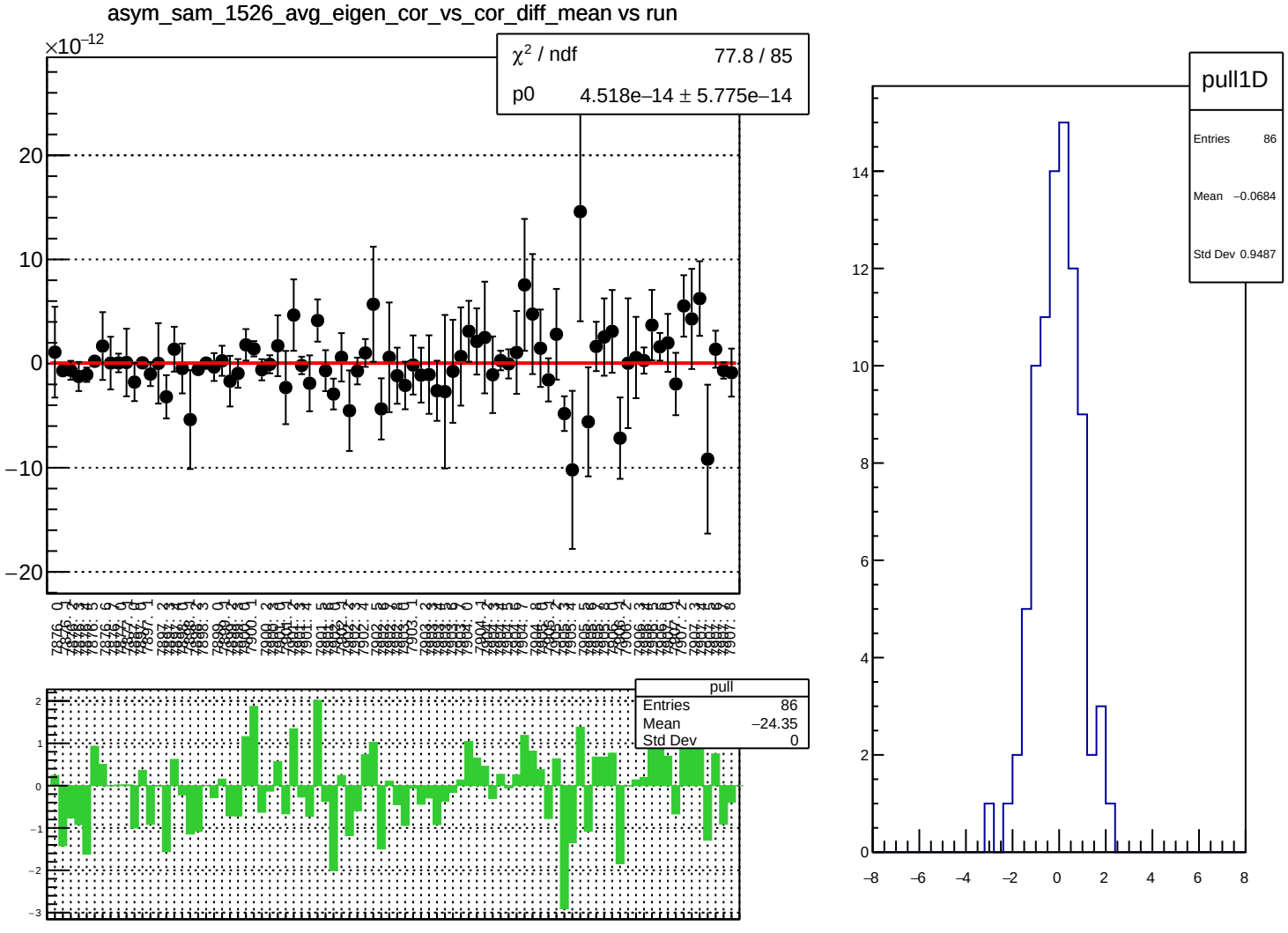

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.5 / 85
p0 −0.01505 ± 0.07535
pull
Entries 86
Mean 39.76
Std Dev 0

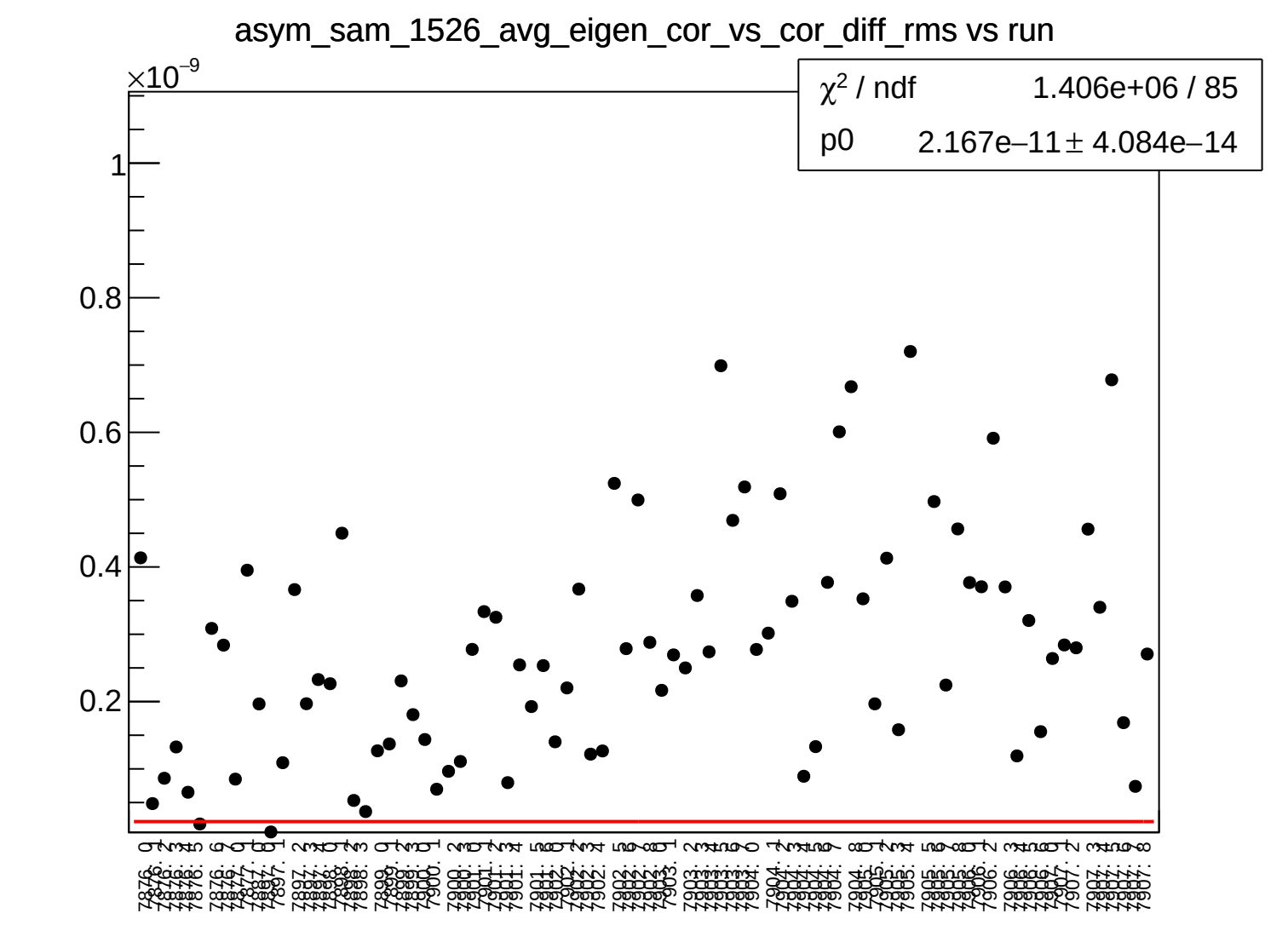

pull1D
Entries 86
Mean −0.02449
Std Dev 0.9672

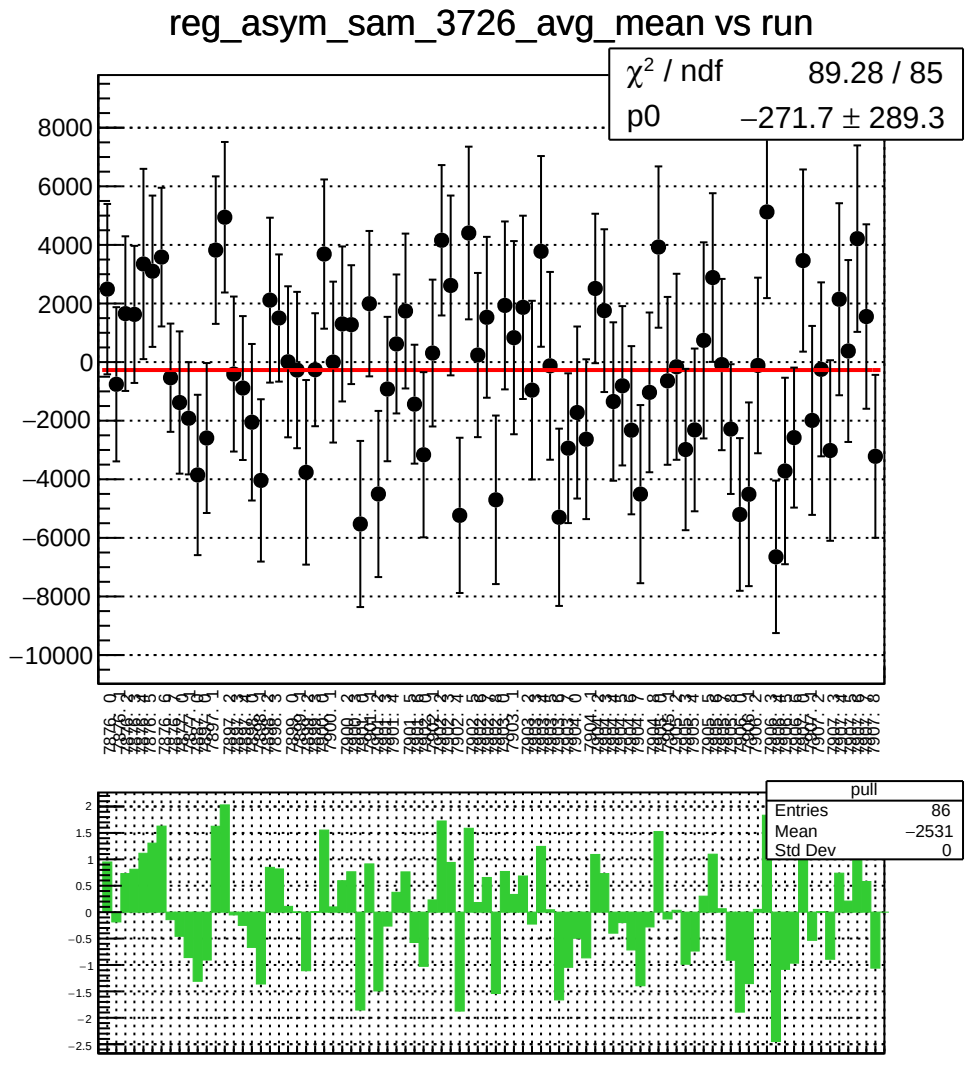

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.682e+05 / 85
p0 65.69 ± 0.05328
180
160
140
120
100
80
60
40
20

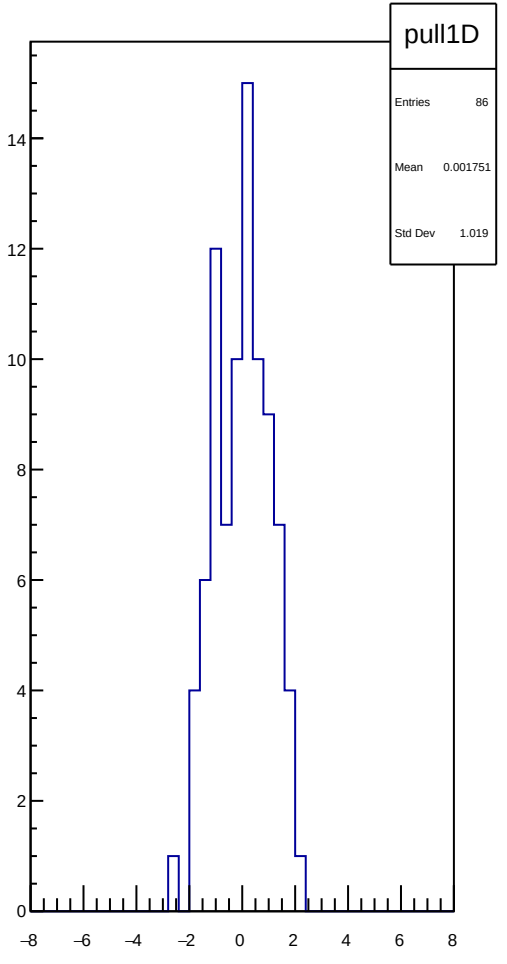

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.5 / 85
p0 −0.01505 ± 0.07535
pull
Entries 86
Mean 39.76
Std Dev 0
pull1D
Entries 86
Mean −0.02449
Std Dev 0.9672

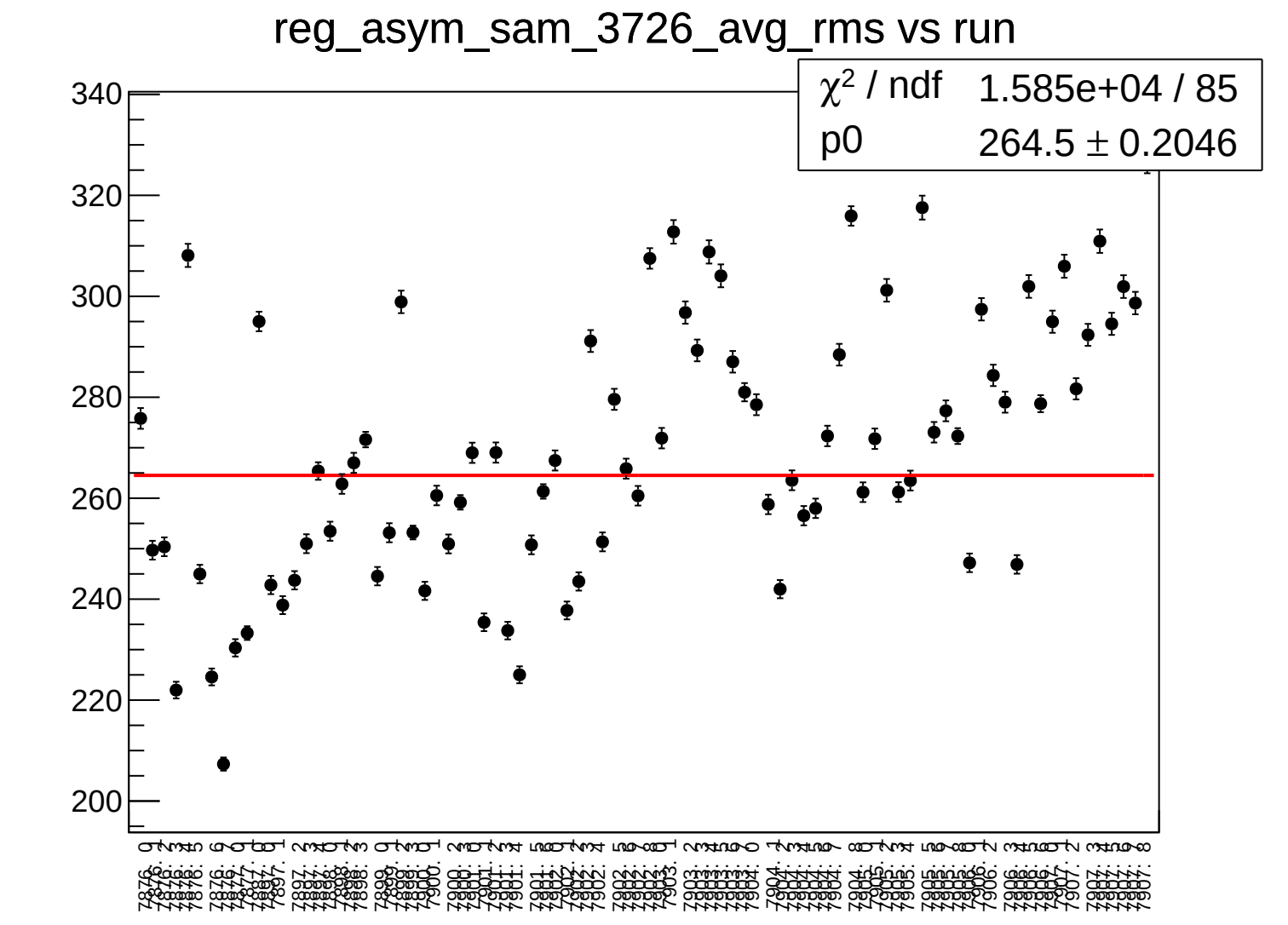

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.682e+05 / 85
p0 65.69 ± 0.05328
180
160
140
120
100
80
60
40
20

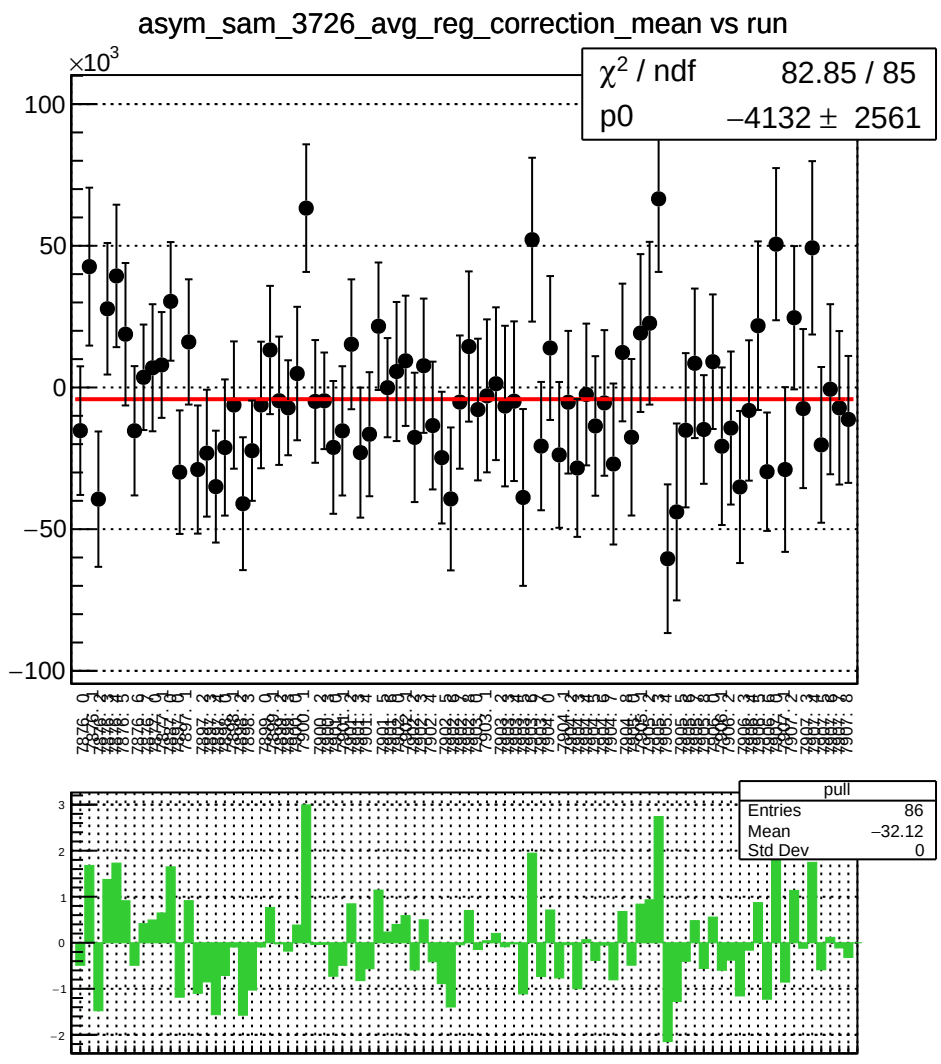

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.8 / 85
p0 4.518e−14 ± 5.775e−14
20
10
0
−10
−20
pull
Entries 86
Mean −24.35
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.0684
Std Dev 0.9487
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

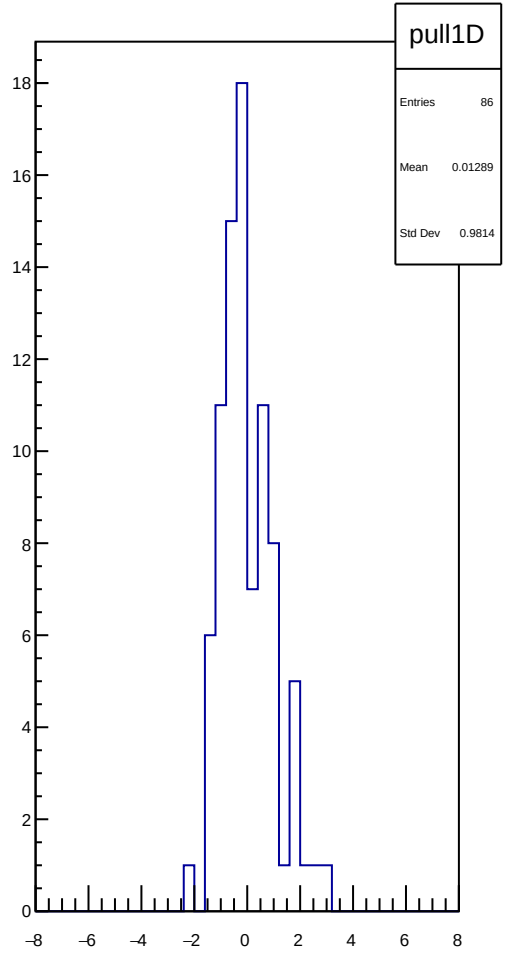

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.406e+06 / 85
p0 2.167e−11 ± 4.084e−14
1
0.8
0.6
0.4
0.2

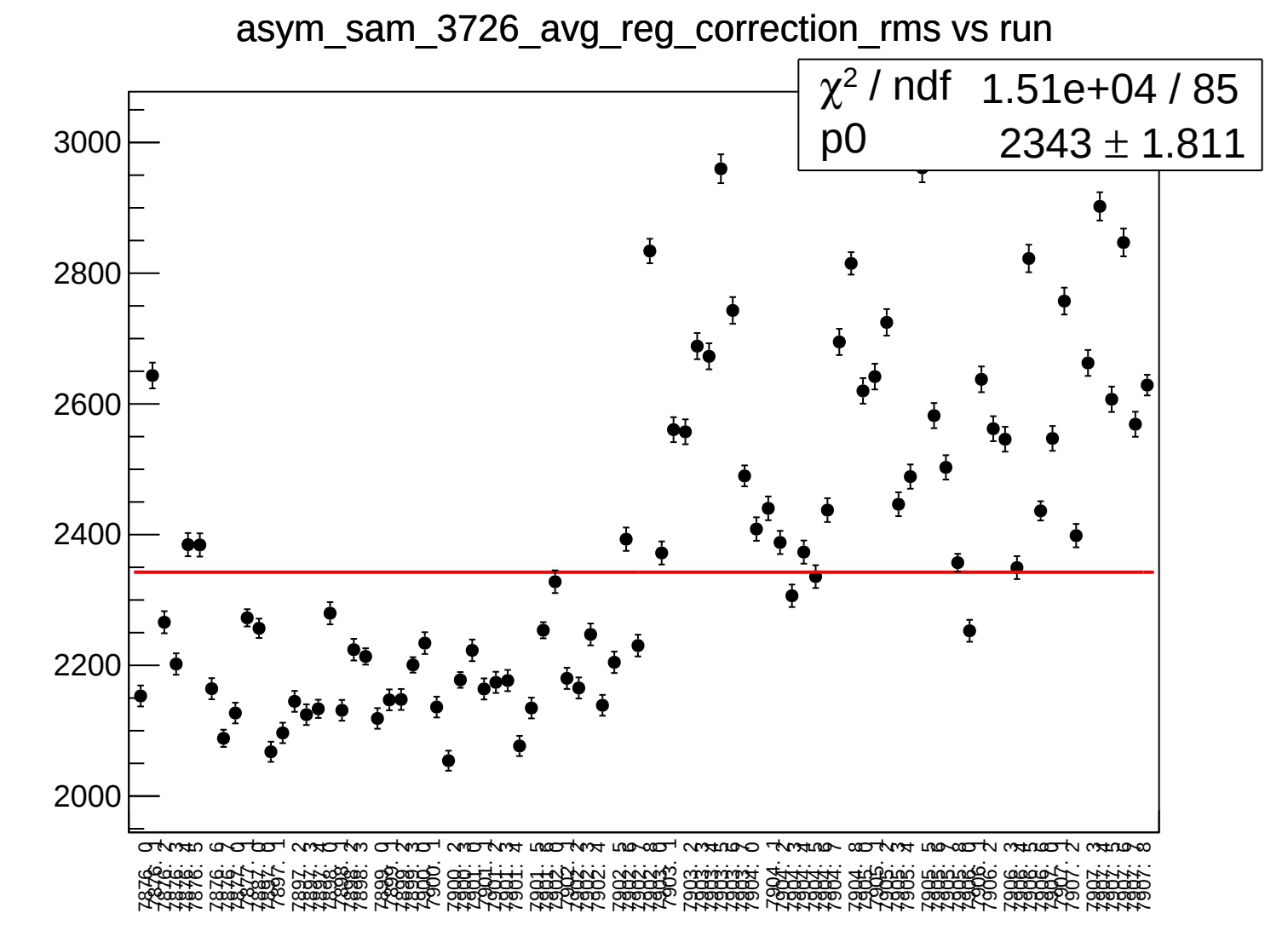

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 89.28 / 85
p0 −271.7 ± 289.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 86
Mean −2531
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

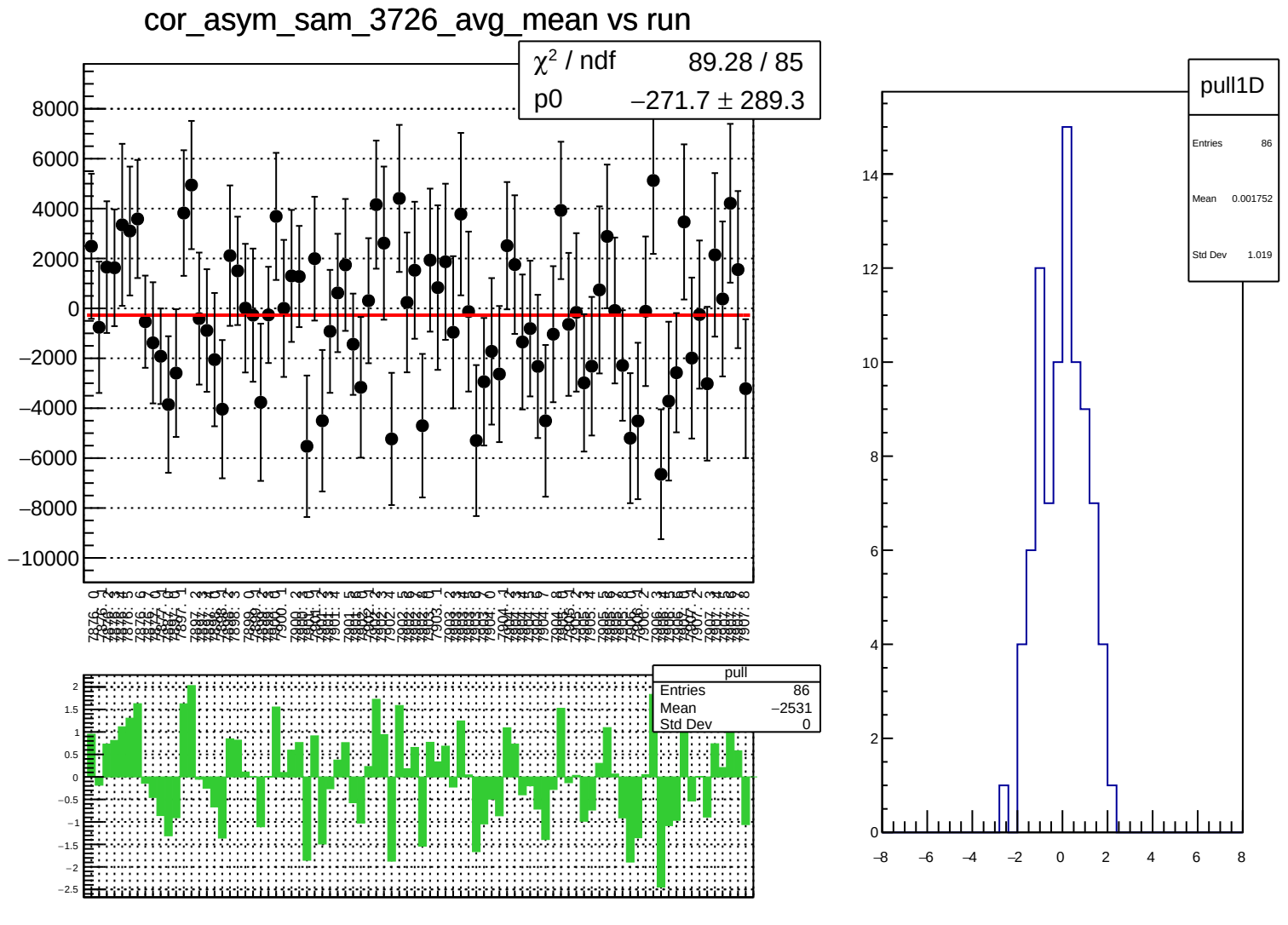

pull1D
Entries 86
Mean 0.001751
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

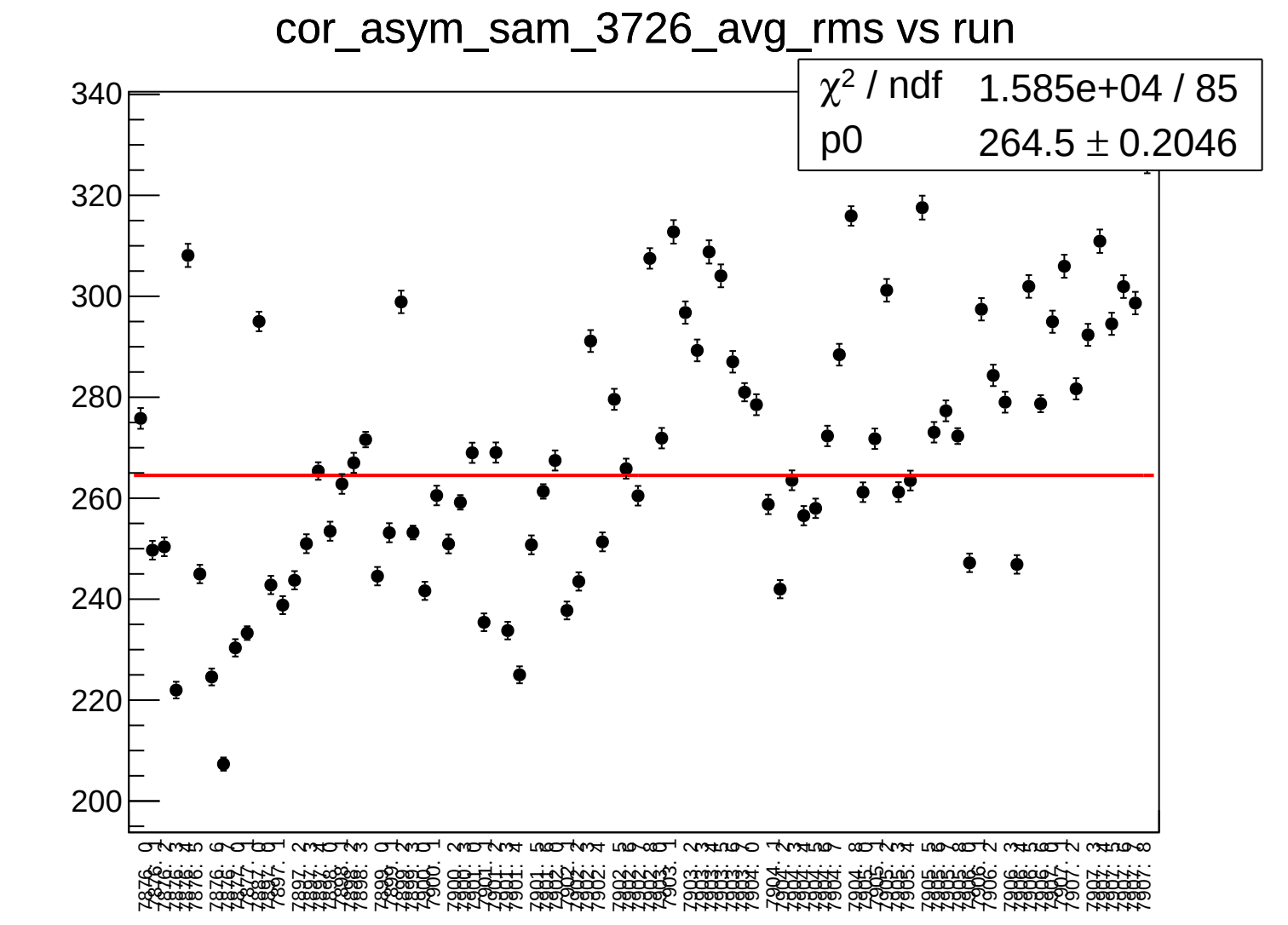

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.585e+04 / 85
p0 264.5 ± 0.2046
340
320
300
280
260
240
220
200

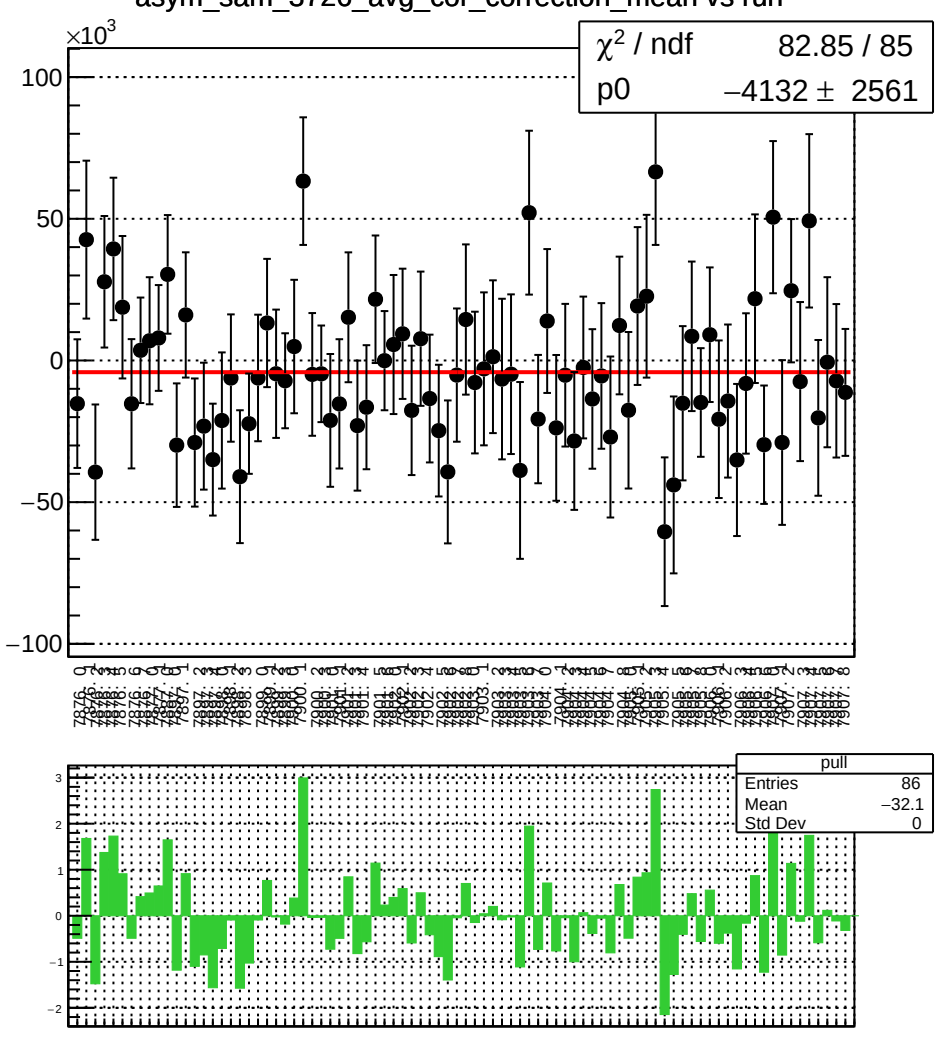

asym_sam_3726_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.85 / 85
p0 −4132 ± 2561
100
50
0
−50
−100
pull
Entries 86
Mean −32.12
Std Dev 0
3
2
1
0
−1
−2

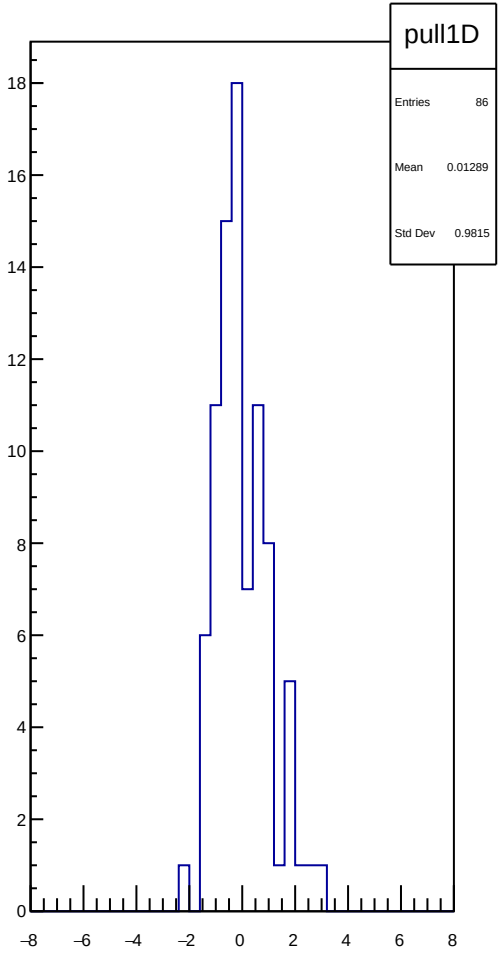

pull1D
Entries 86
Mean 0.01289
Std Dev 0.9814
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

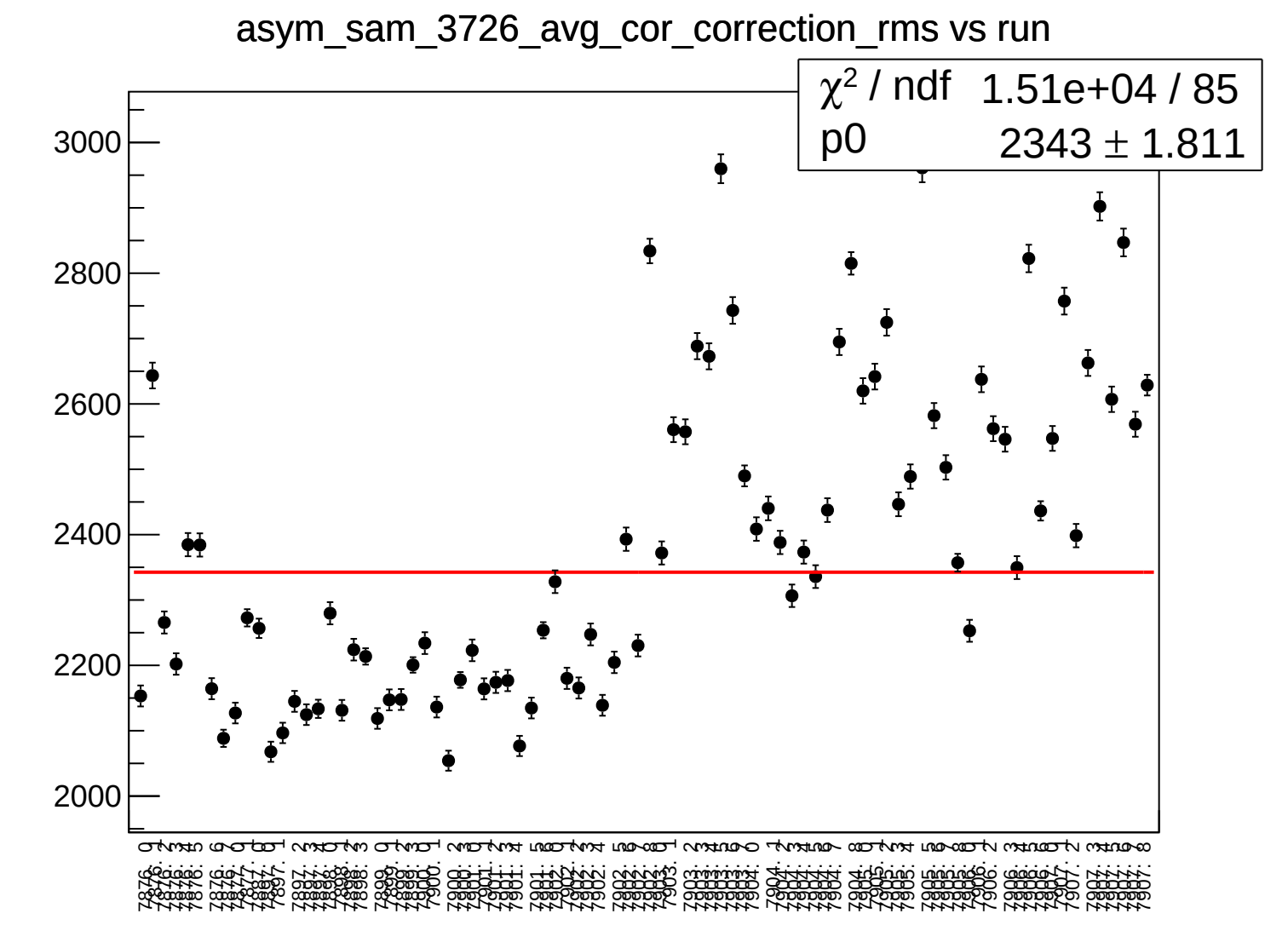

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.51e+04 / 85
p0 2343 ± 1.811
3000
2800
2600
2400
2200
2000

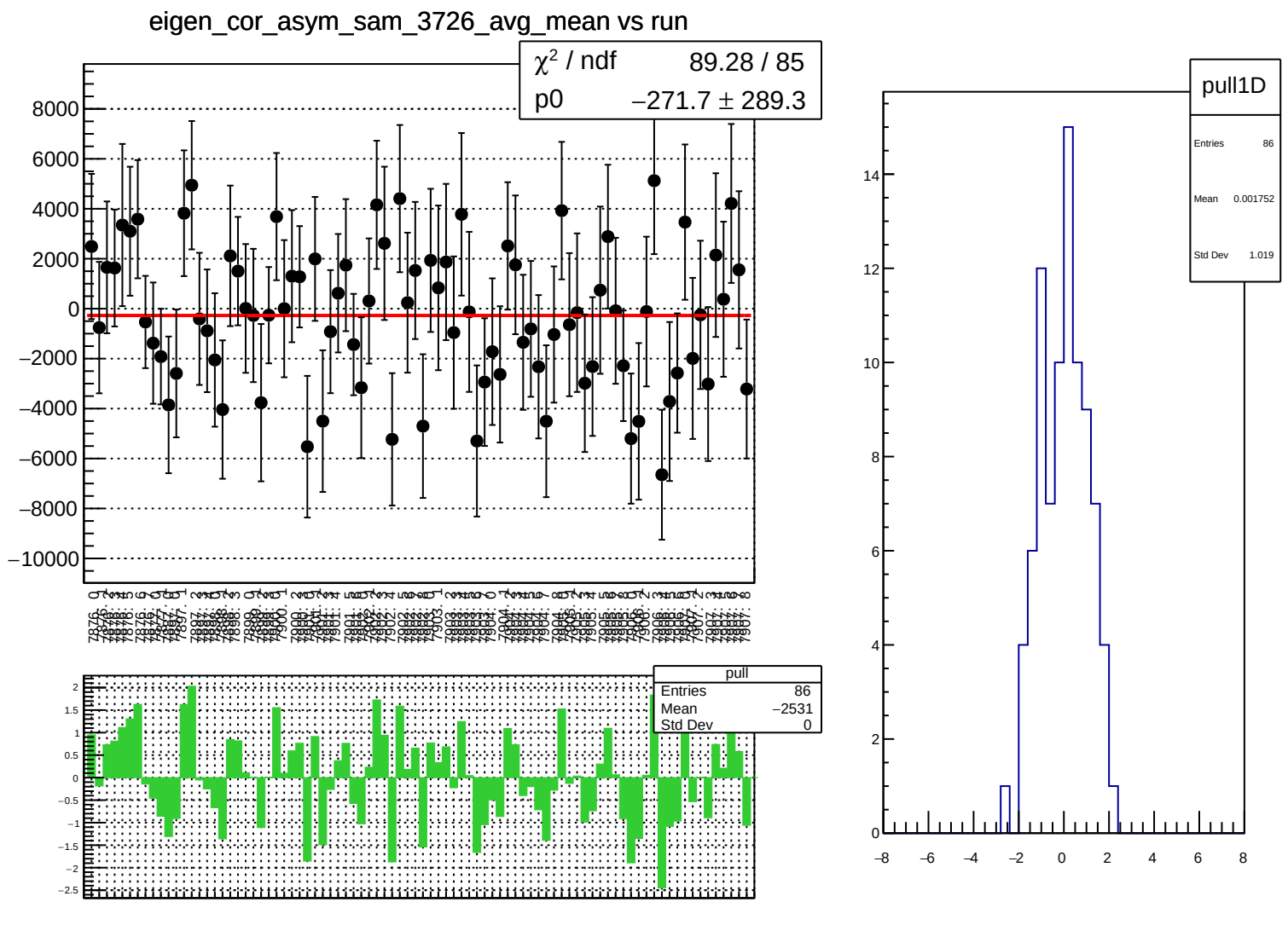

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 89.28 / 85
p0 −271.7 ± 289.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 86
Mean −2531
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 86
Mean 0.001752
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

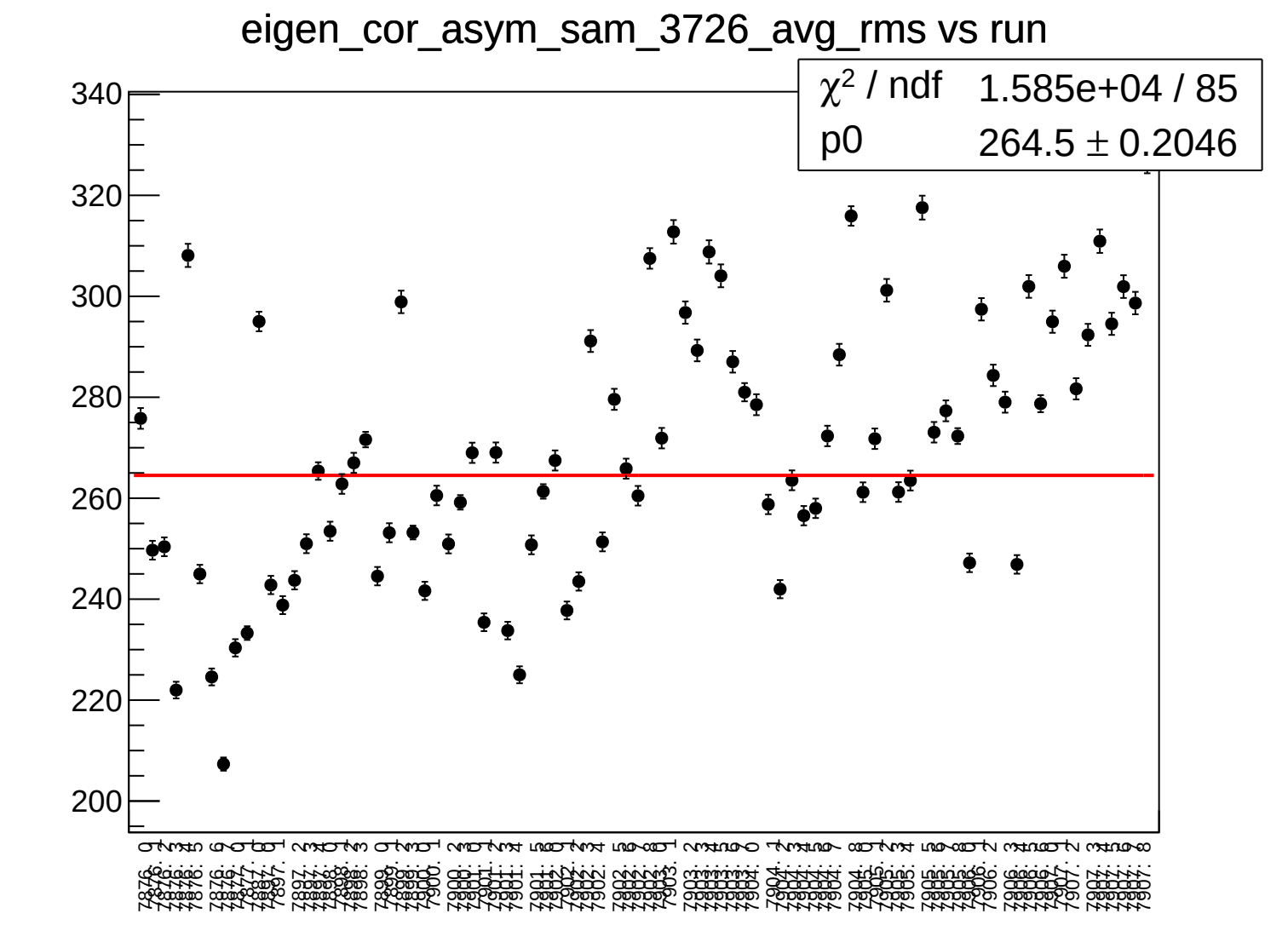

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.585e+04 / 85
p0 264.5 ± 0.2046
340
320
300
280
260
240
220
200

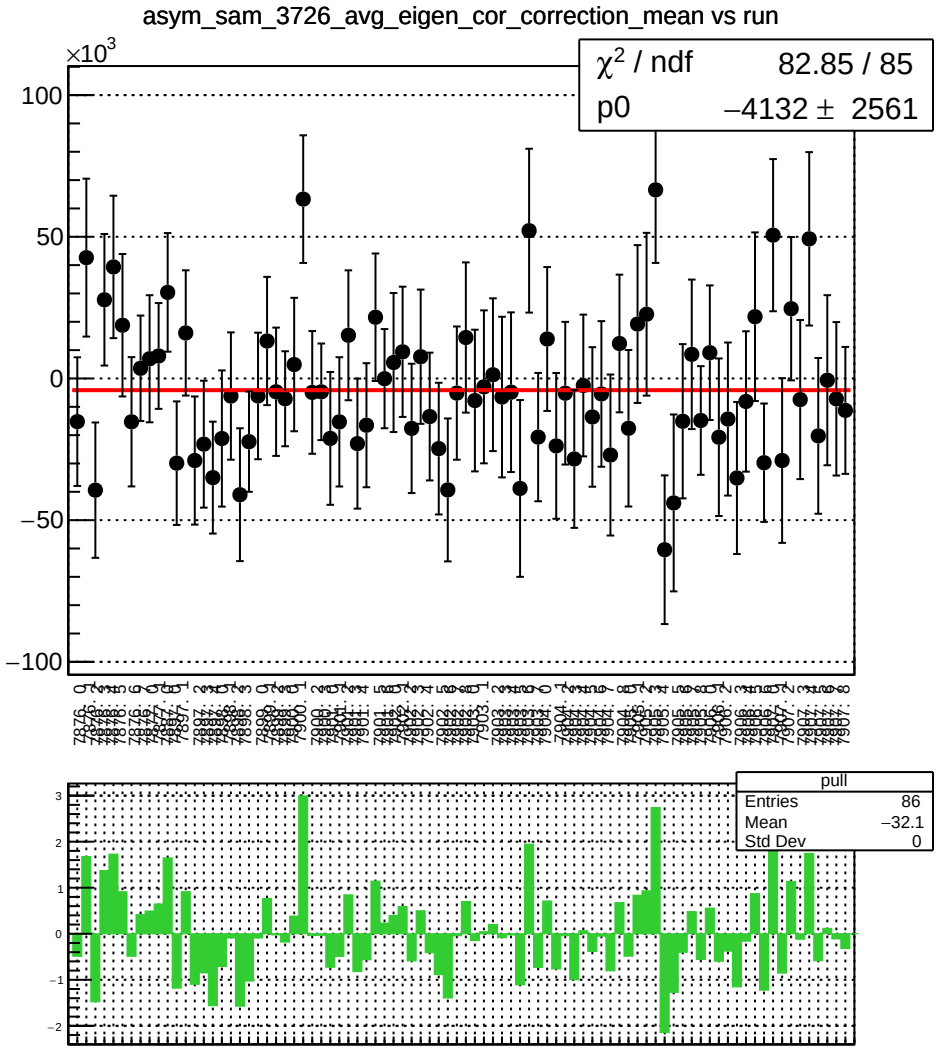

asym_sam_3726_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.85 / 85
p0 −4132 ± 2561
pull
Entries 86
Mean −32.1
Std Dev 0

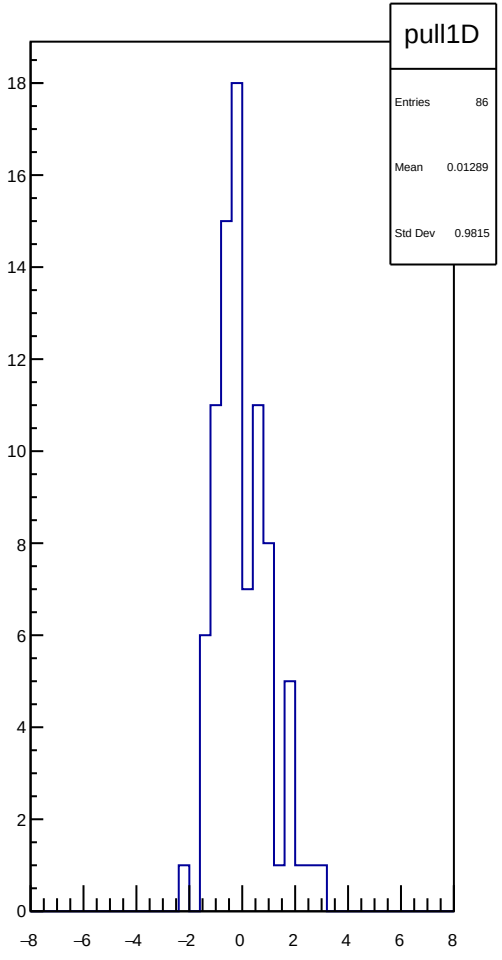

pull1D
Entries 86
Mean 0.01289
Std Dev 0.9815

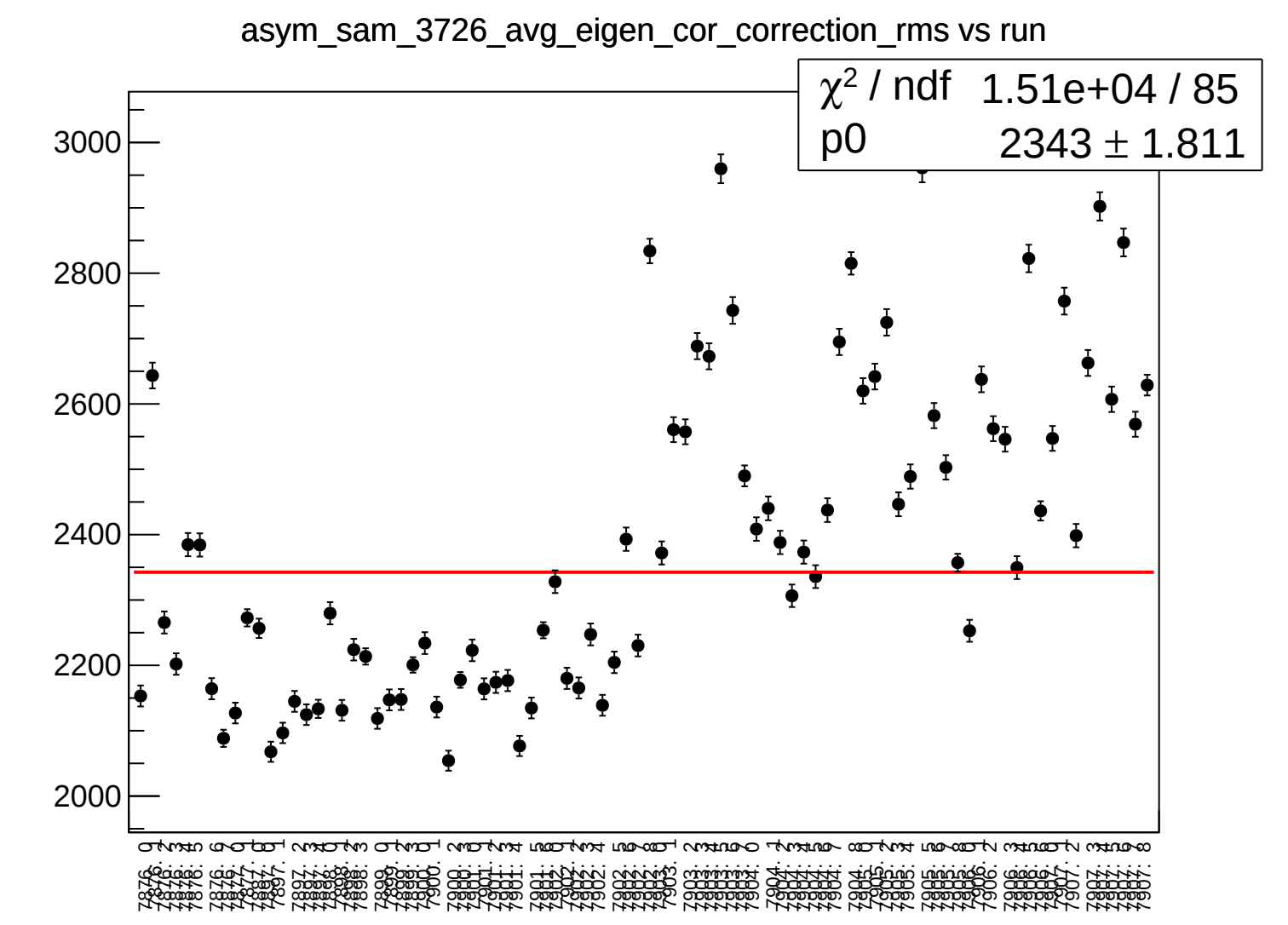

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.51e+04 / 85
p0 2343 ± 1.811
3000
2800
2600
2400
2200
2000

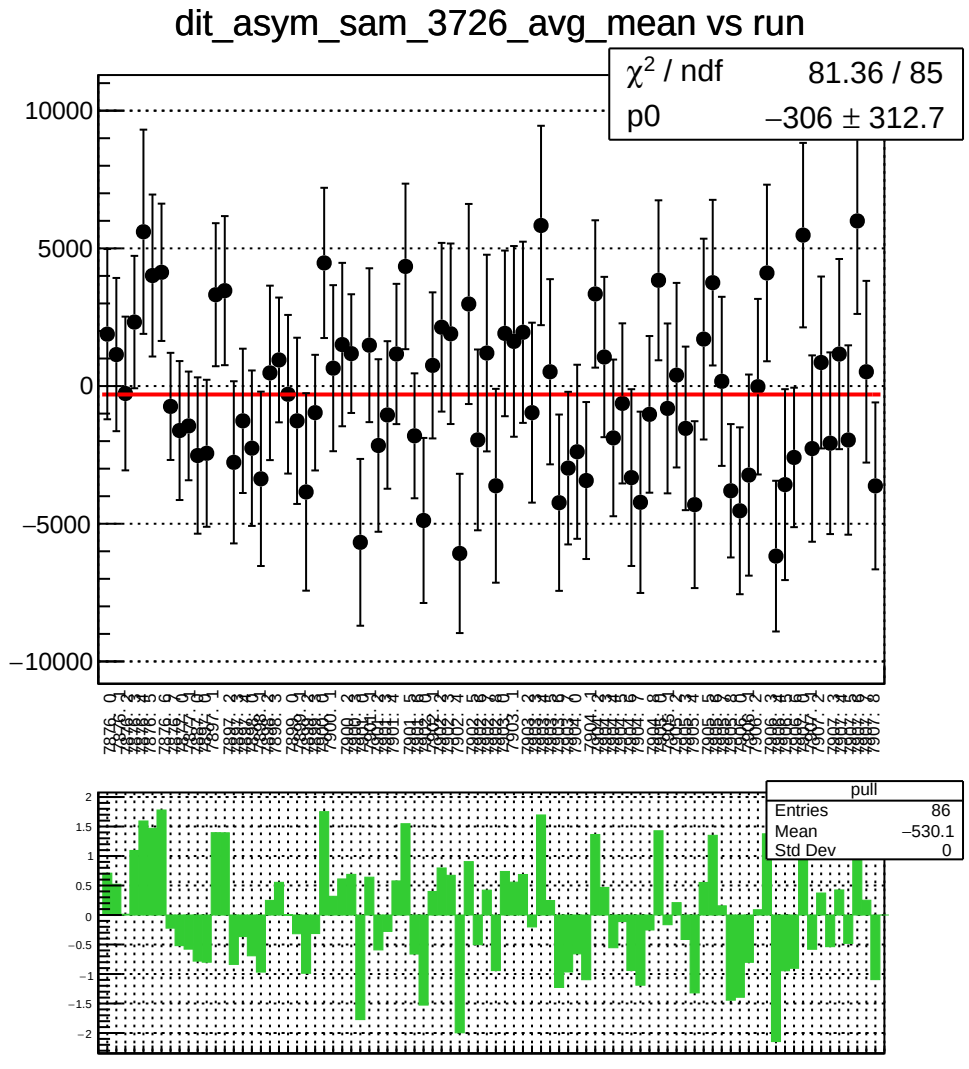

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 89.28 / 85
p0 −271.7 ± 289.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 86
Mean −2531
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 86
Mean 0.001752
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

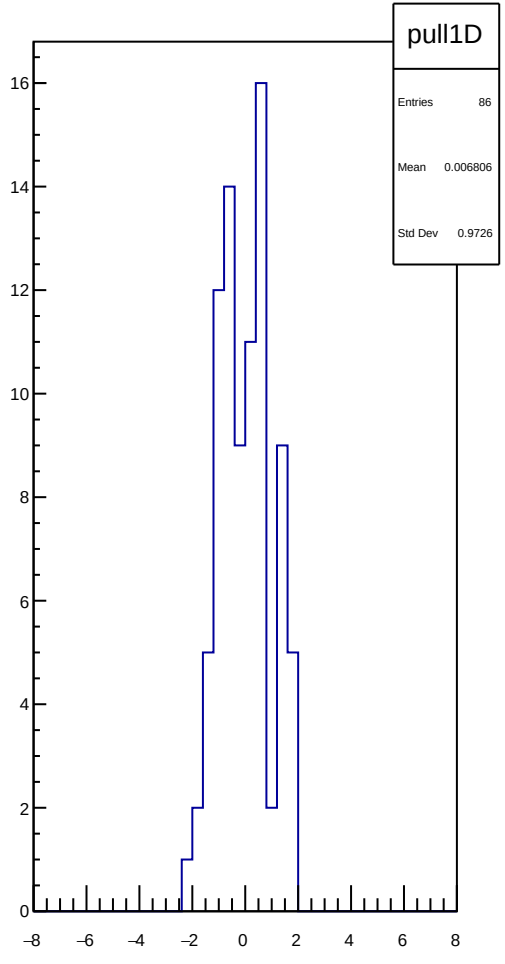

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.585e+04 / 85
p0 264.5 ± 0.2046
340
320
300
280
260
240
220
200

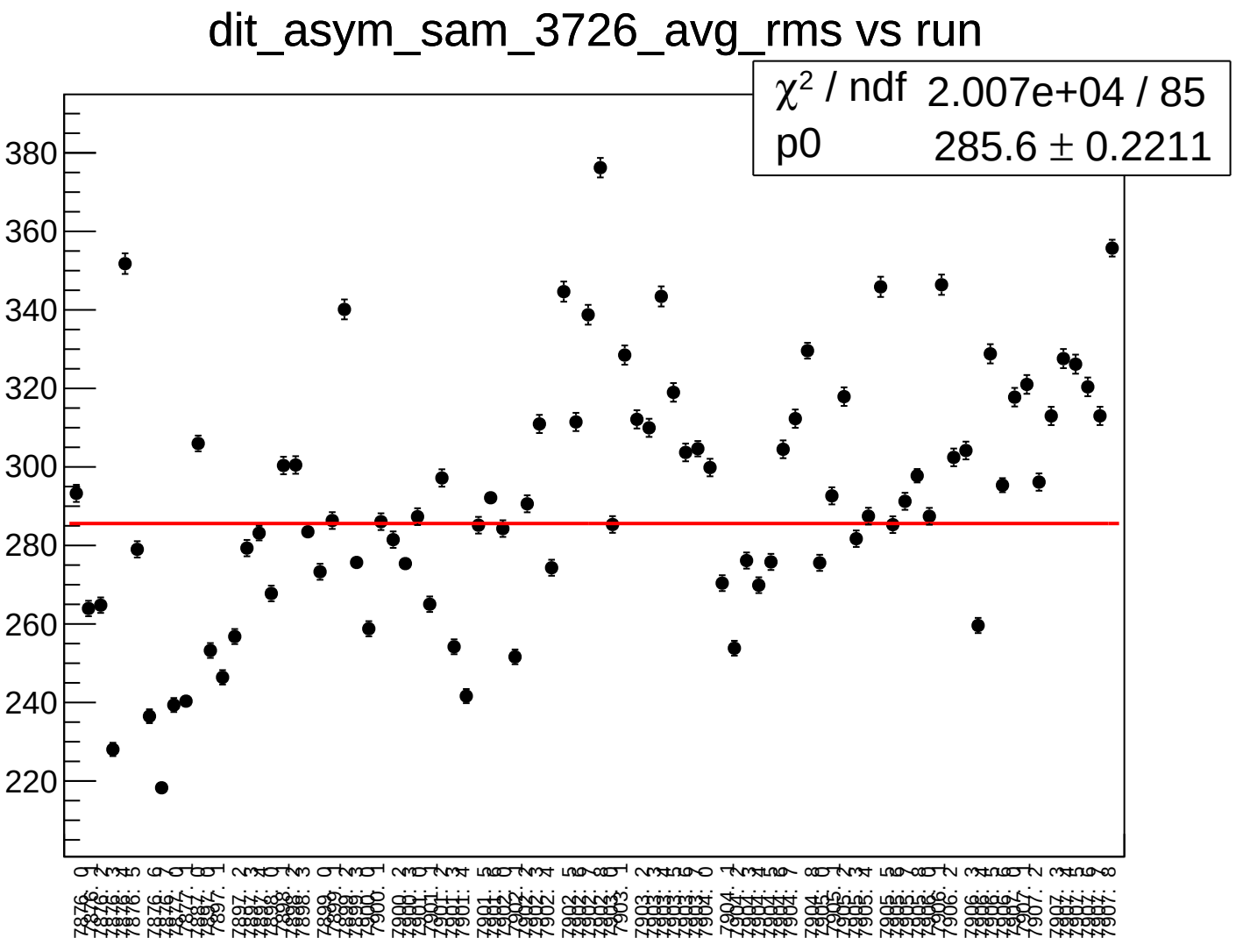

asym_sam_3726_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.85 / 85
p0 −4132 ± 2561
100
50
0
−50
−100
pull
Entries 86
Mean −32.1
Std Dev 0
3
2
1
0
−1
−2

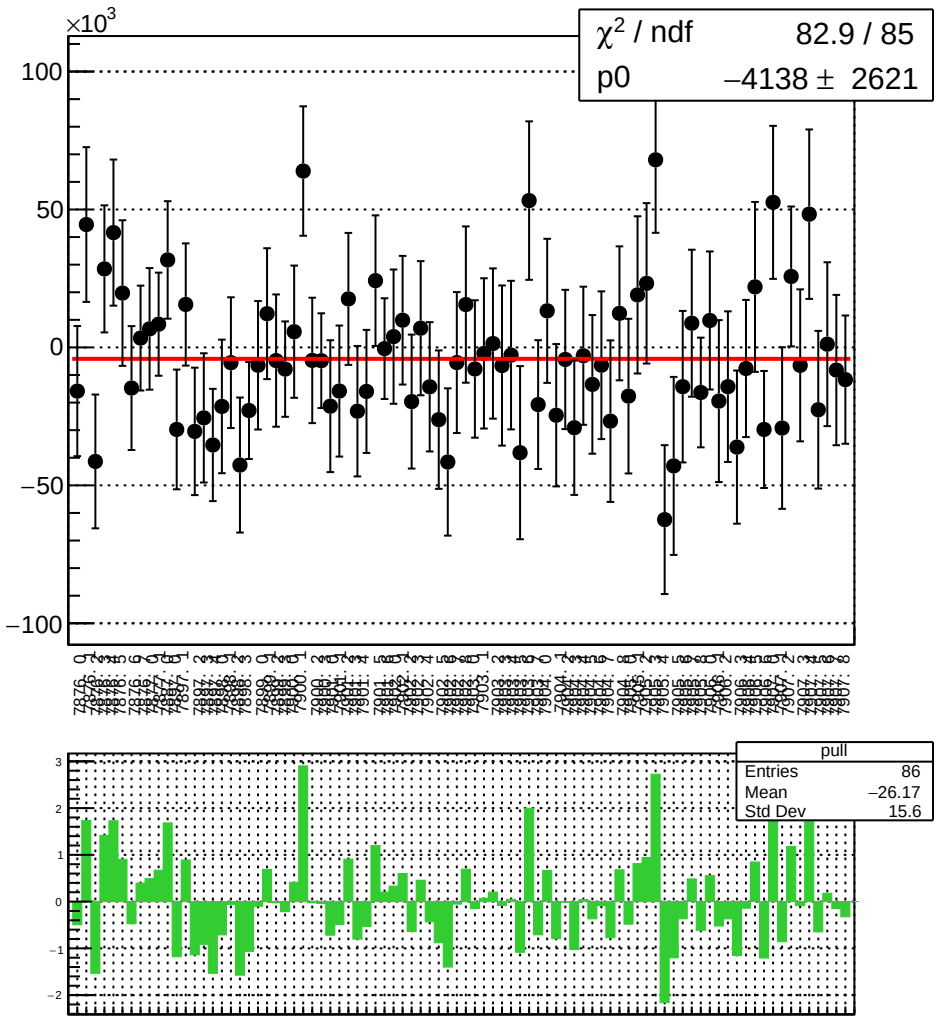

pull1D
Entries 86
Mean 0.01289
Std Dev 0.9815
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

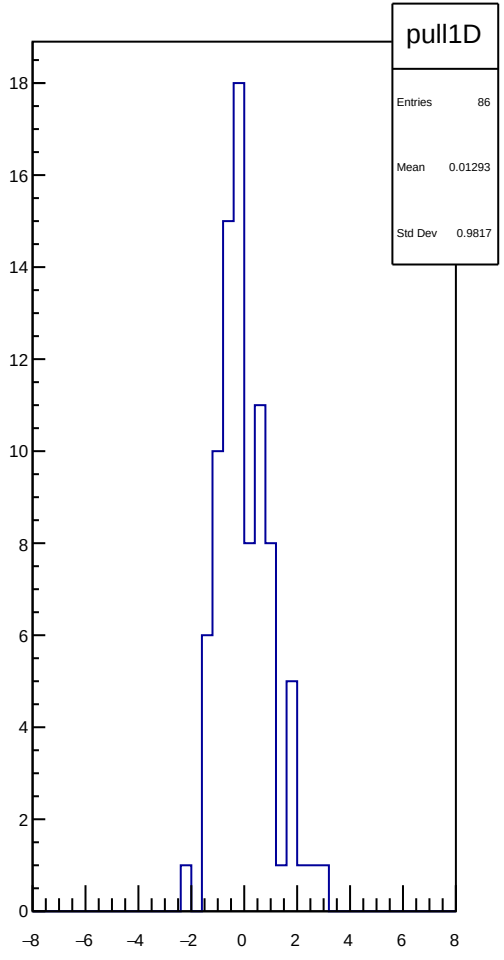

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.51e+04 / 85
p0 2343 ± 1.811
3000
2800
2600
2400
2200
2000

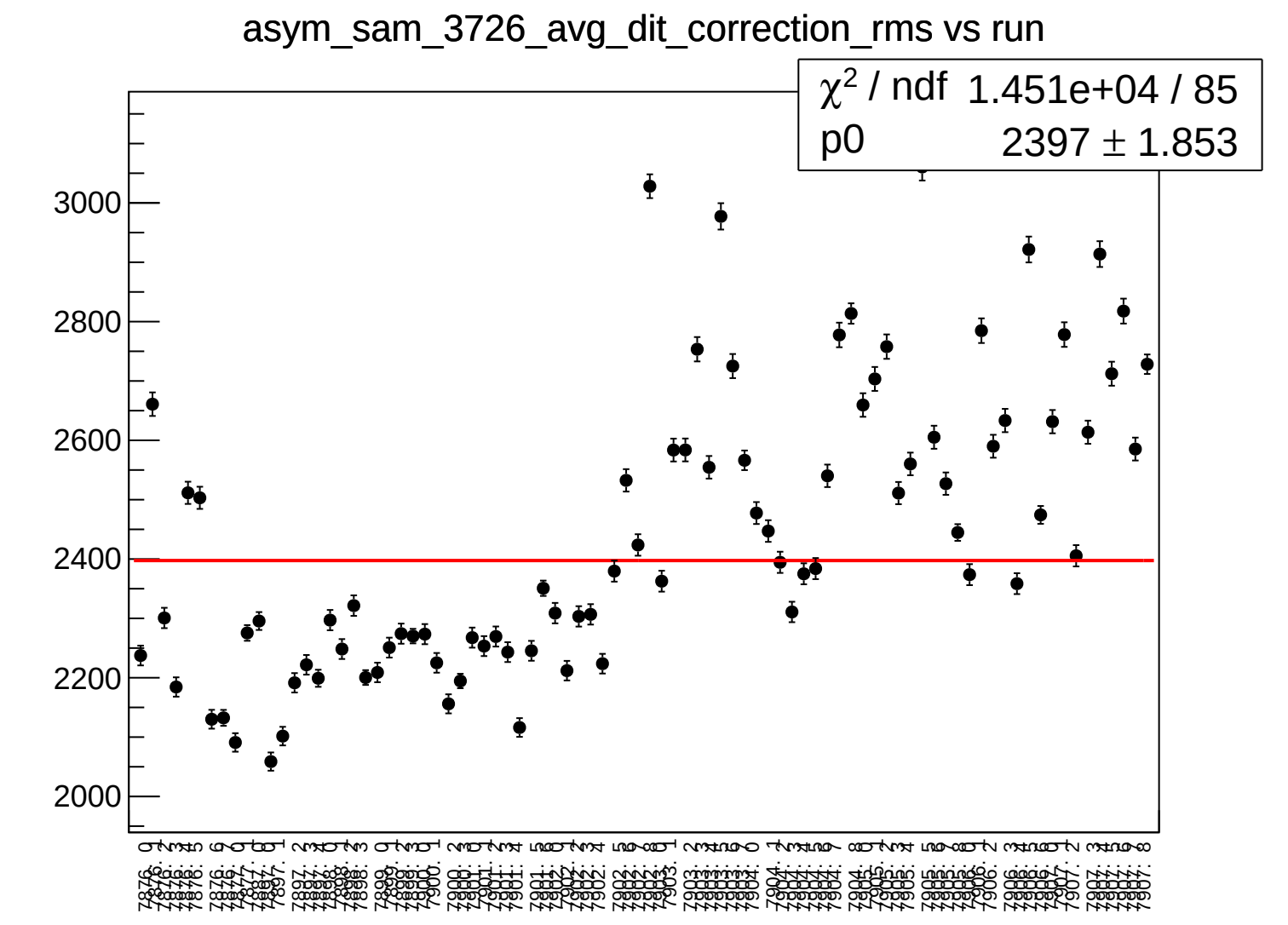

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 81.36 / 85
p0 −306 ± 312.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −530.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

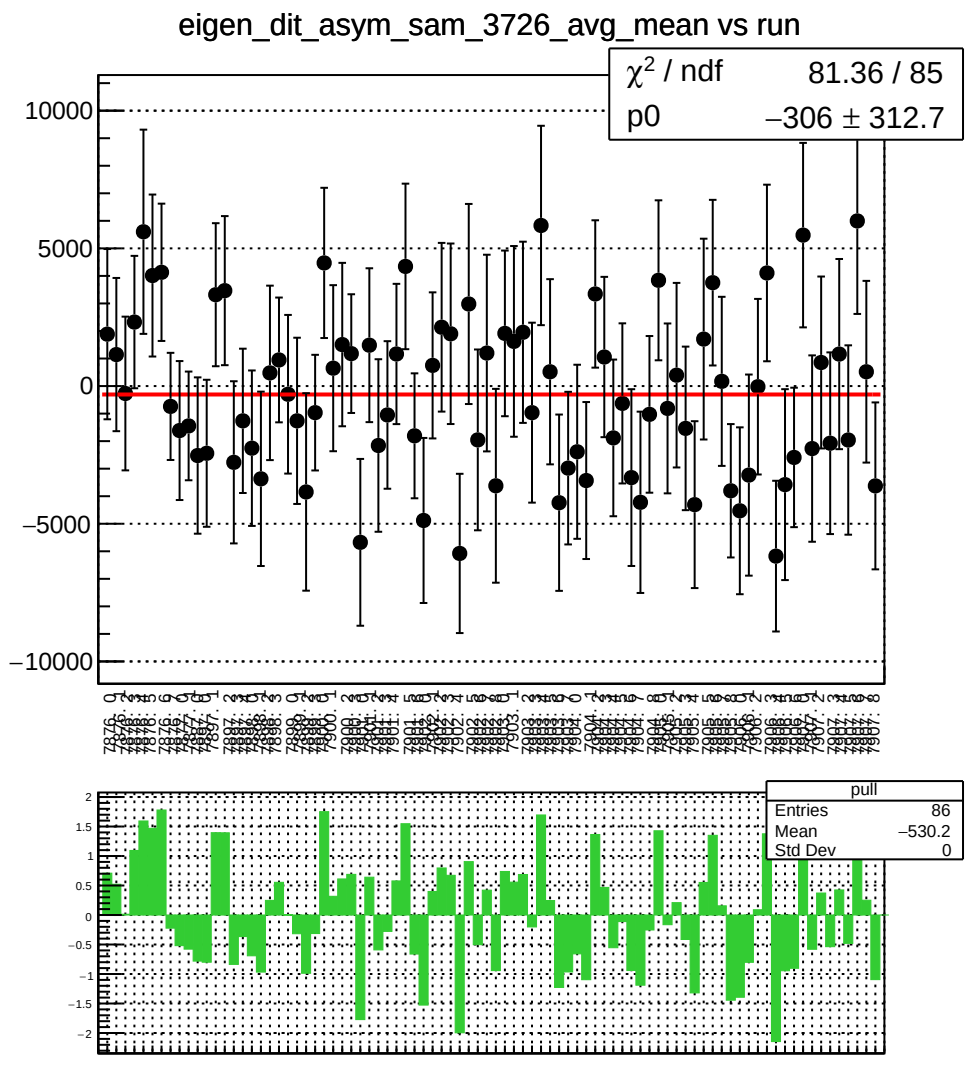

pull1D
Entries 86
Mean 0.006806
Std Dev 0.9726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

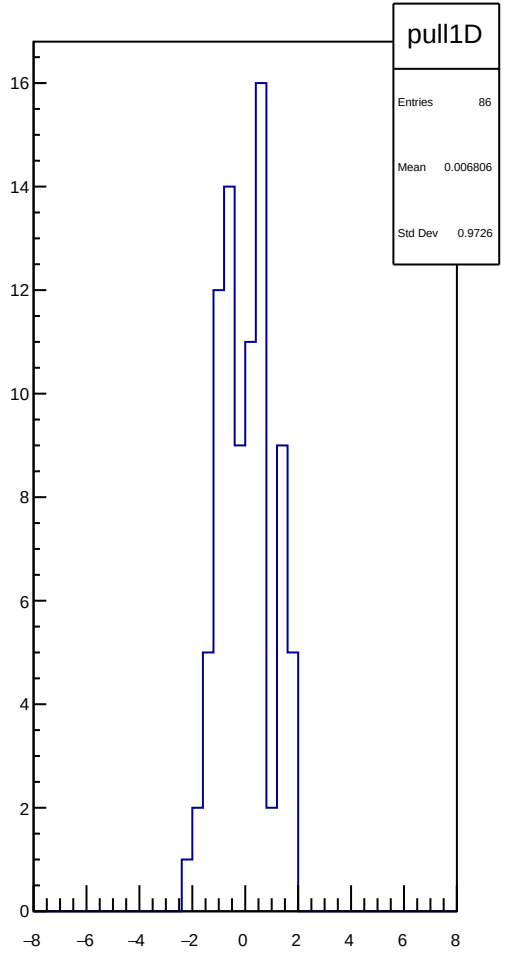

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.007e+04 / 85
p0 285.6 ± 0.2211
380
360
340
320
300
280
260
240
220

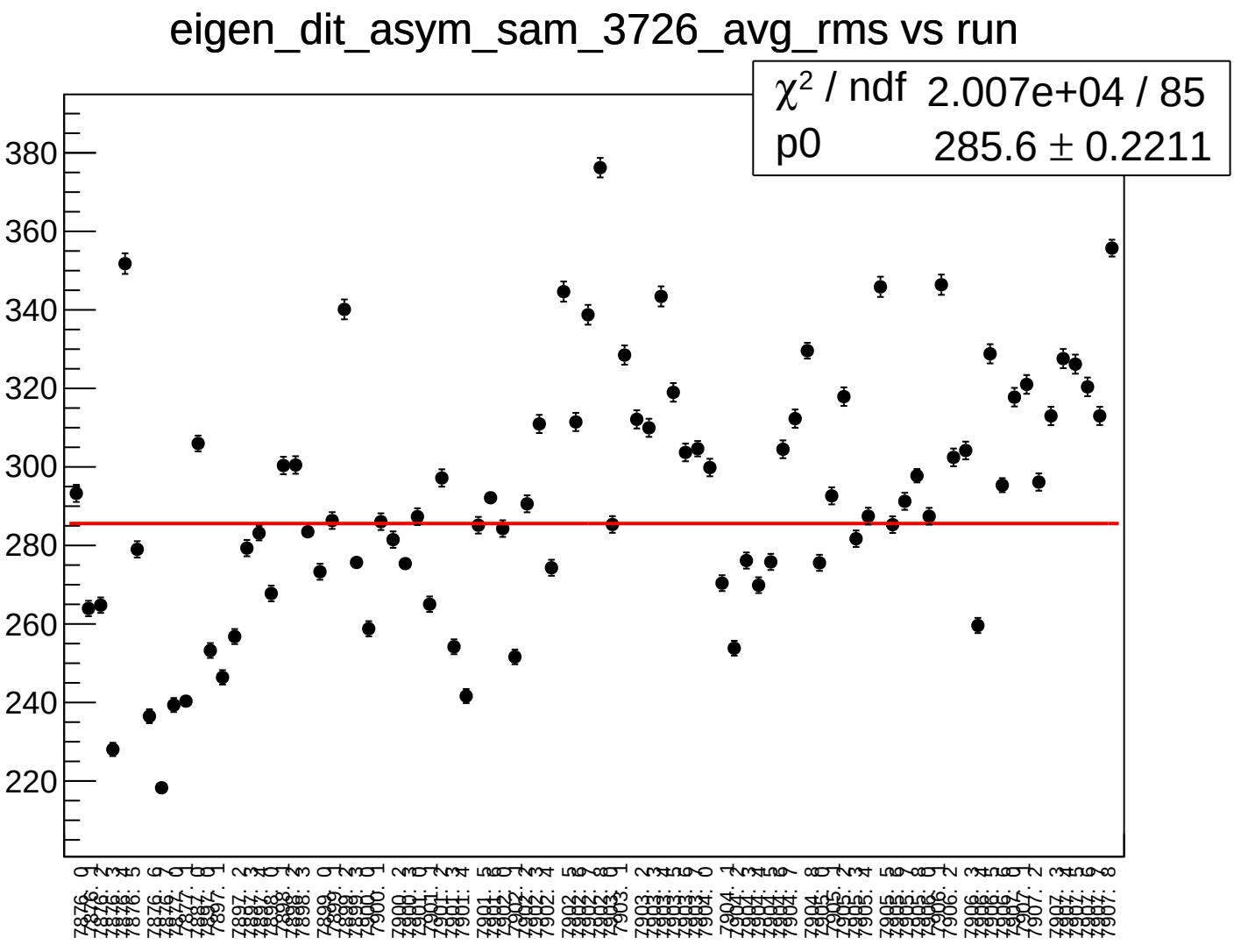

asym_sam_3726_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.9 / 85
p0 −4138 ± 2621
100
50
0
−50
−100
pull
Entries 86
Mean −26.17
Std Dev 15.6
3
2
1
0
−1
−2

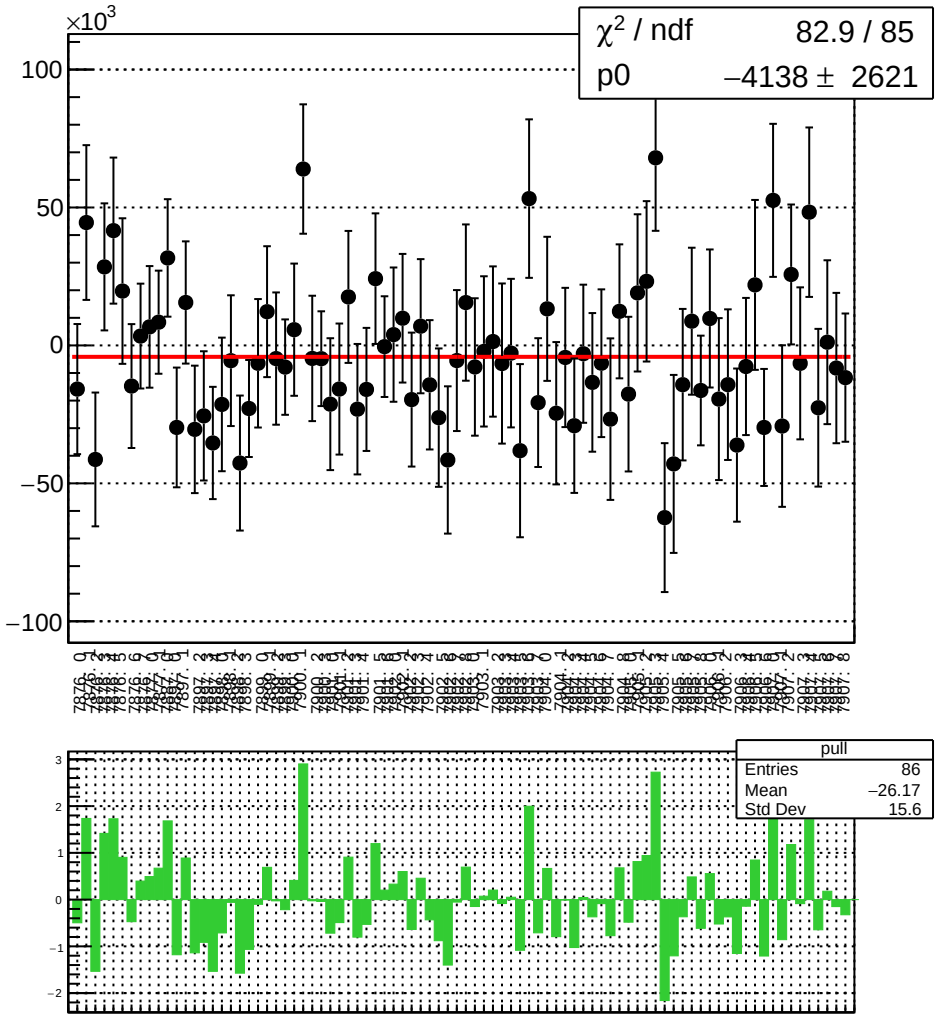

pull1D
Entries 86
Mean 0.01293
Std Dev 0.9817
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

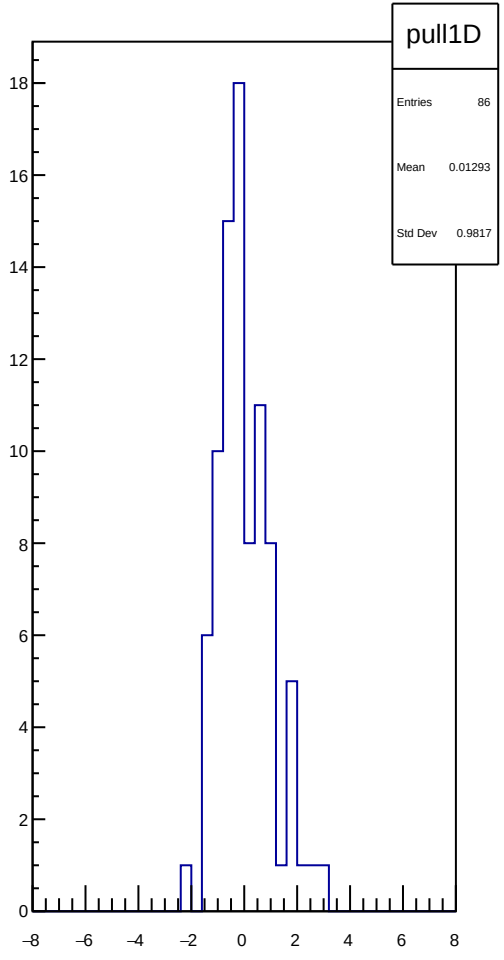

asym_sam_3726_avg_dit_correction_rms vs run
χ^2 / ndf 1.451e+04 / 85
p0 2397 ± 1.853
3000
2800
2600
2400
2200
2000

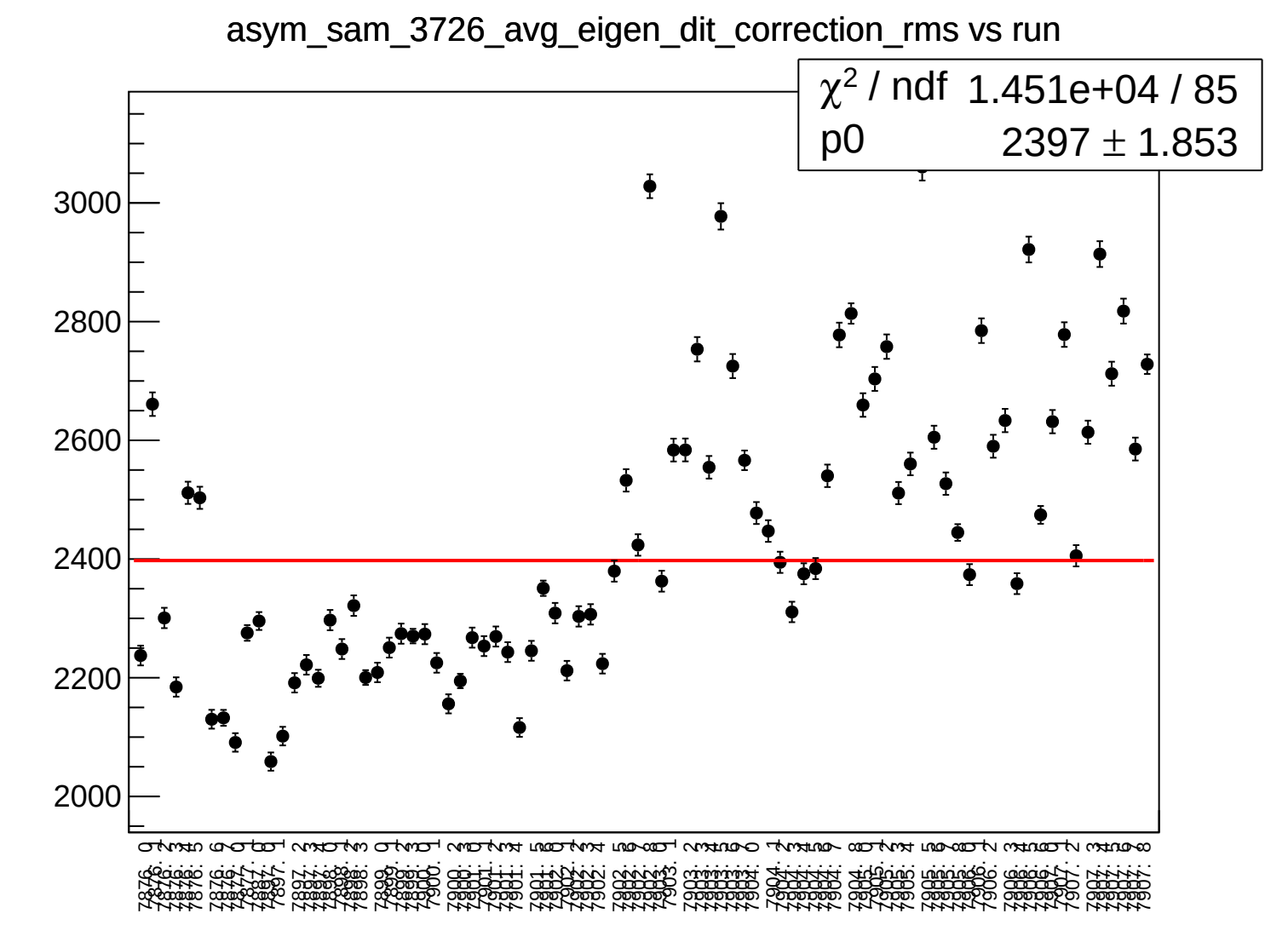

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 81.36 / 85
p0 −306 ± 312.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −530.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

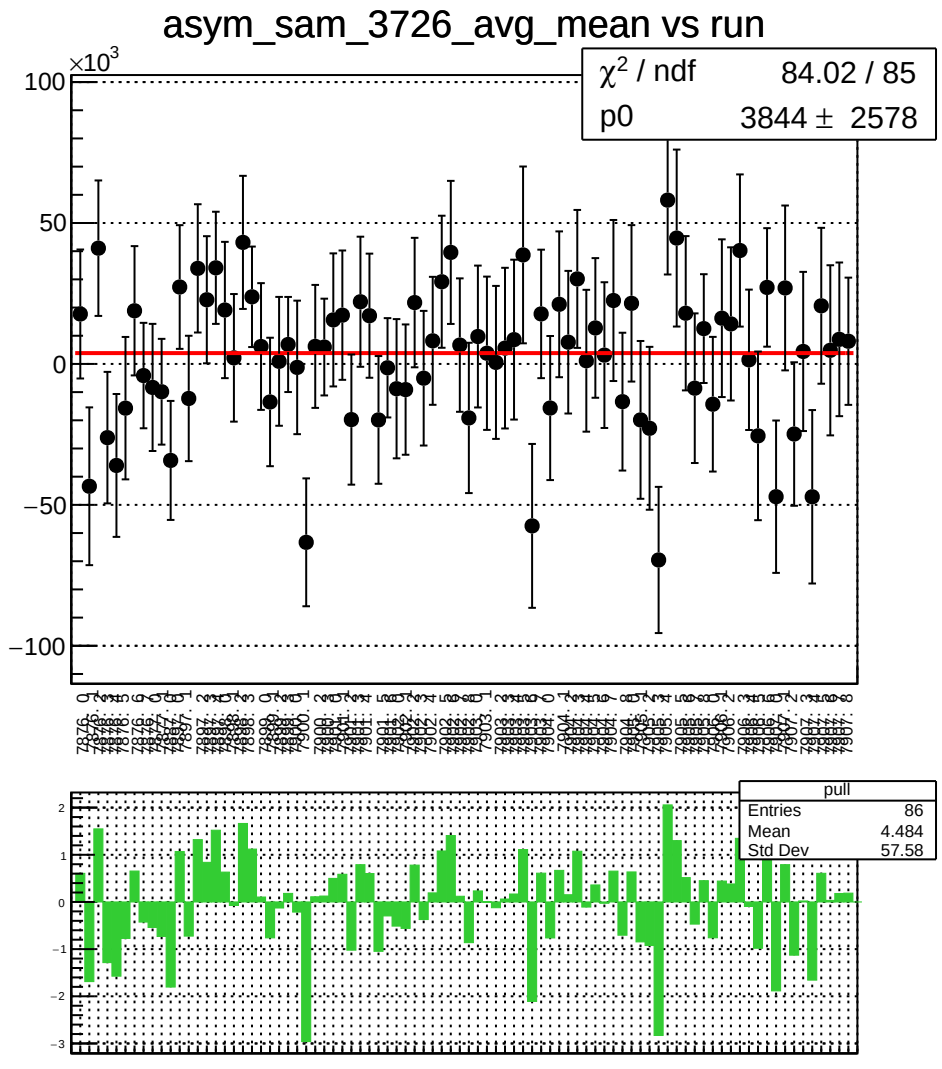

pull1D
Entries 86
Mean 0.006806
Std Dev 0.9726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

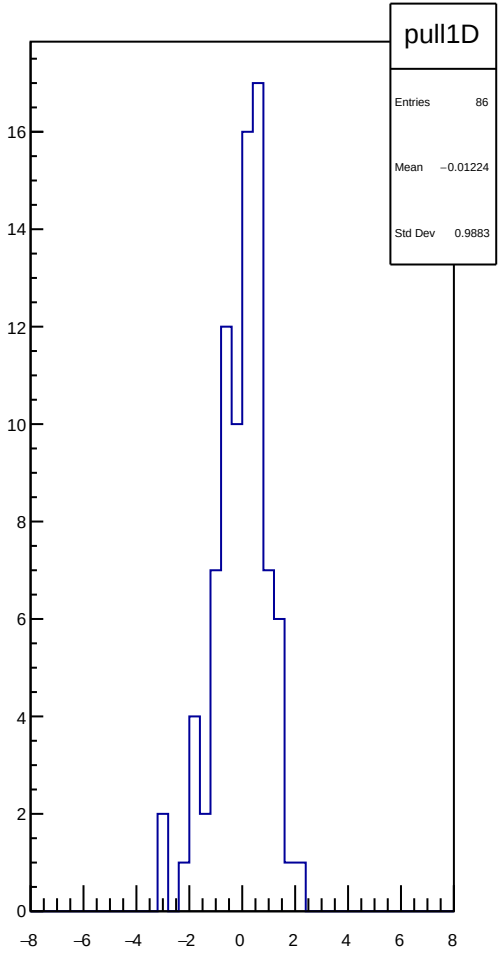

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.007e+04 / 85
p0 285.6 ± 0.2211
380
360
340
320
300
280
260
240
220

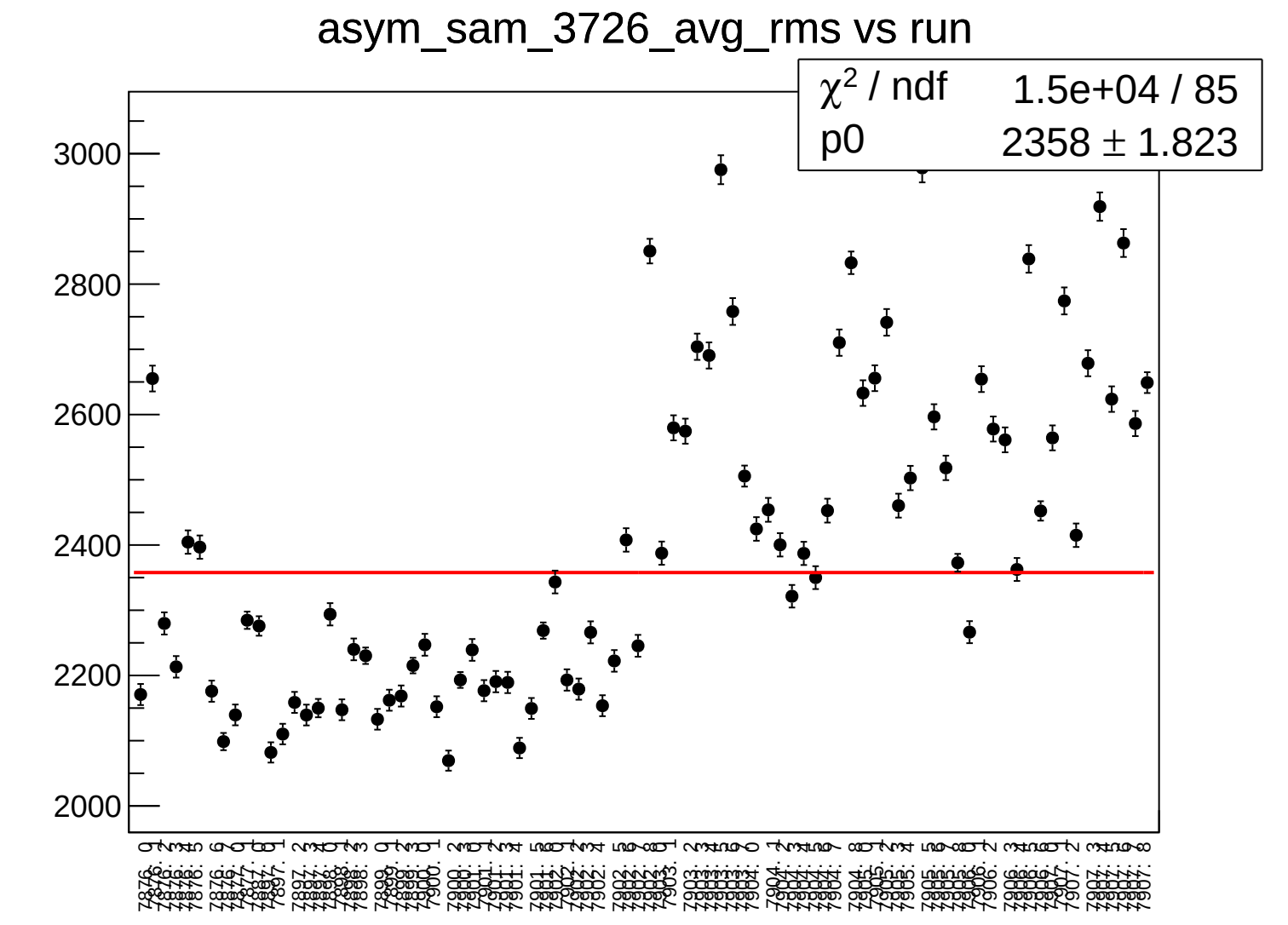

asym_sam_3726_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.9 / 85
p0 −4138 ± 2621
100
50
0
−50
−100
pull
Entries 86
Mean −26.17
Std Dev 15.6
3
2
1
0
−1
−2

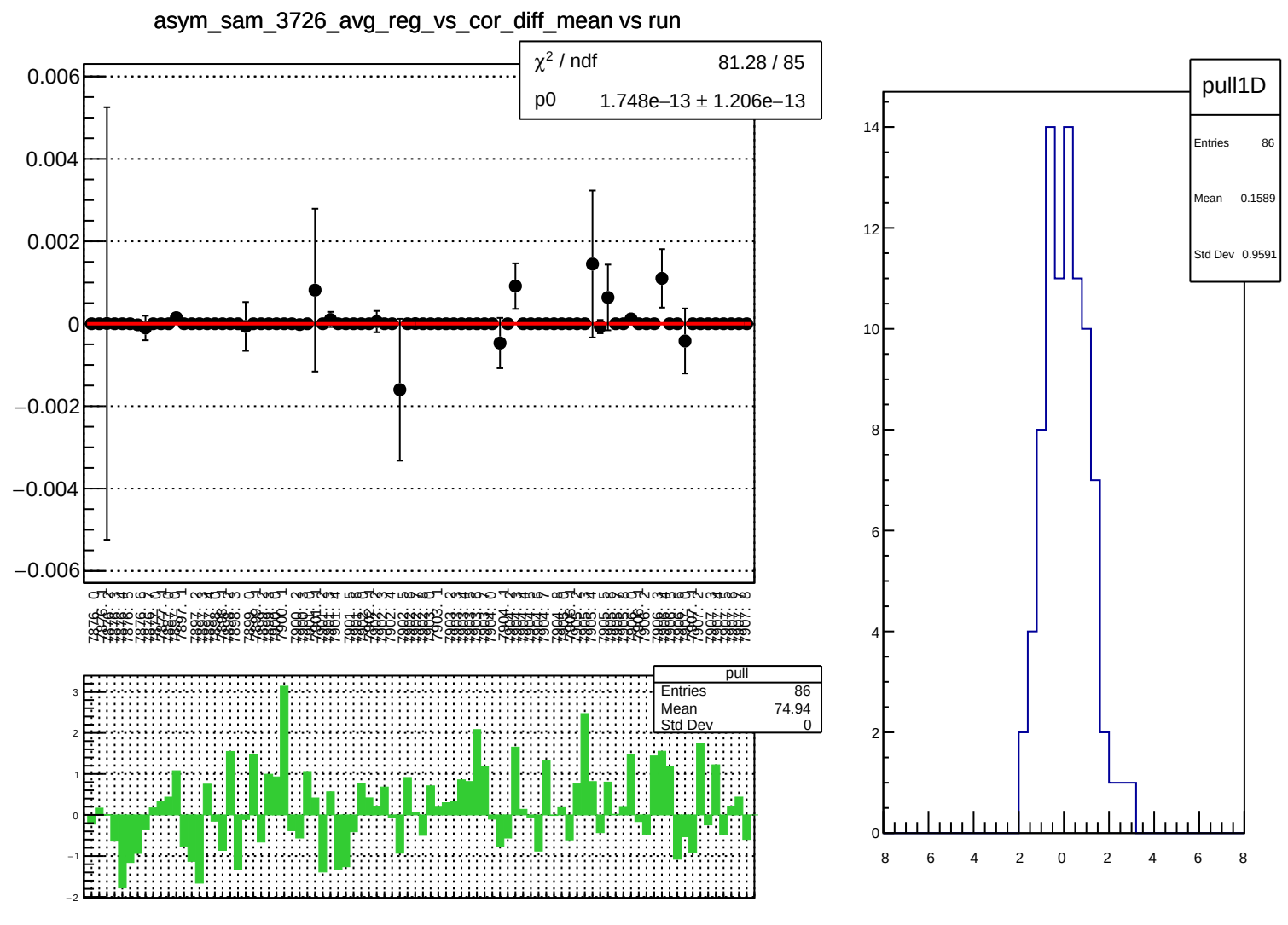

pull1D
Entries 86
Mean 0.01293
Std Dev 0.9817
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

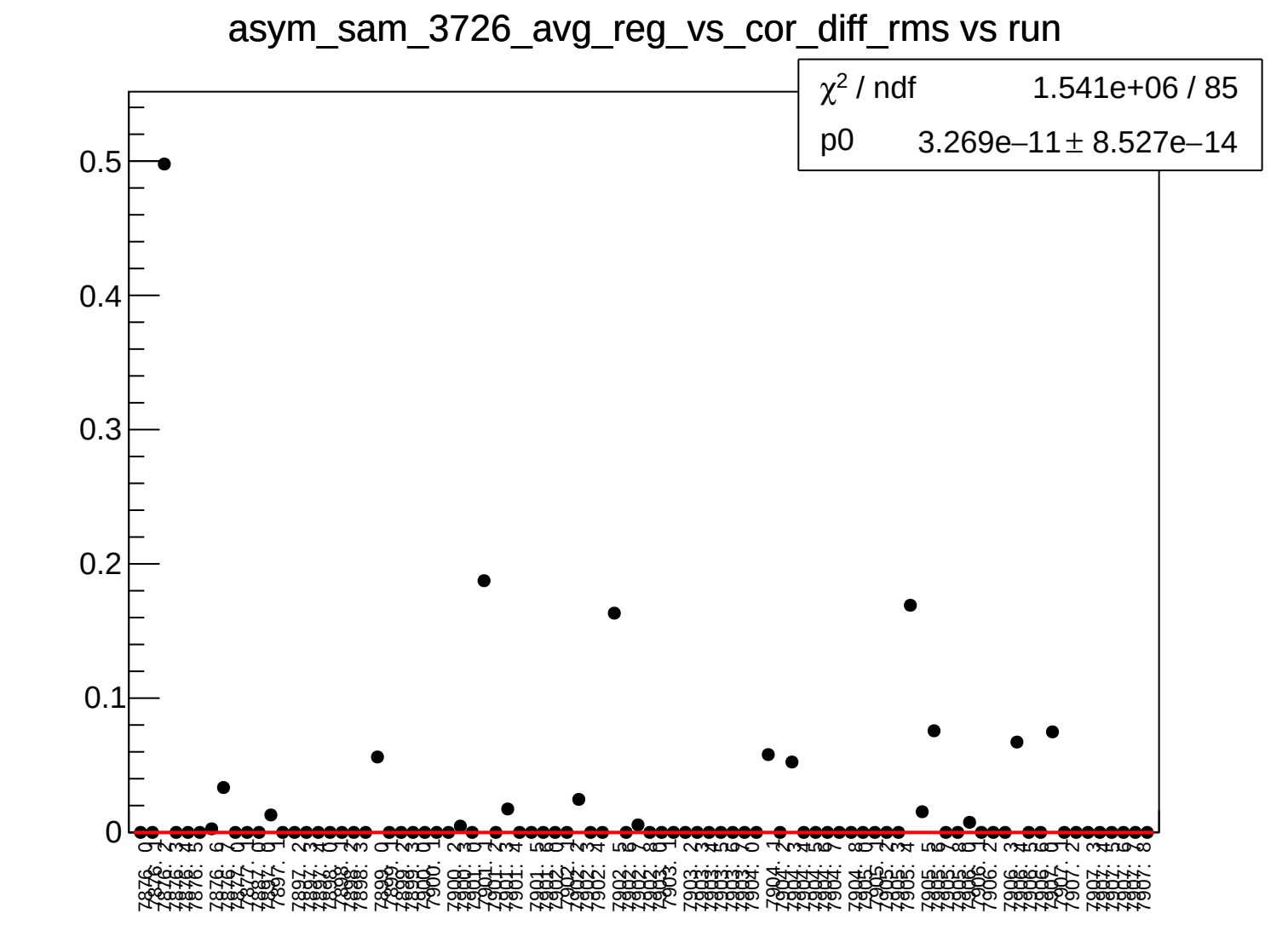

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.451e+04 / 85
p0 2397 ± 1.853
3000
2800
2600
2400
2200
2000

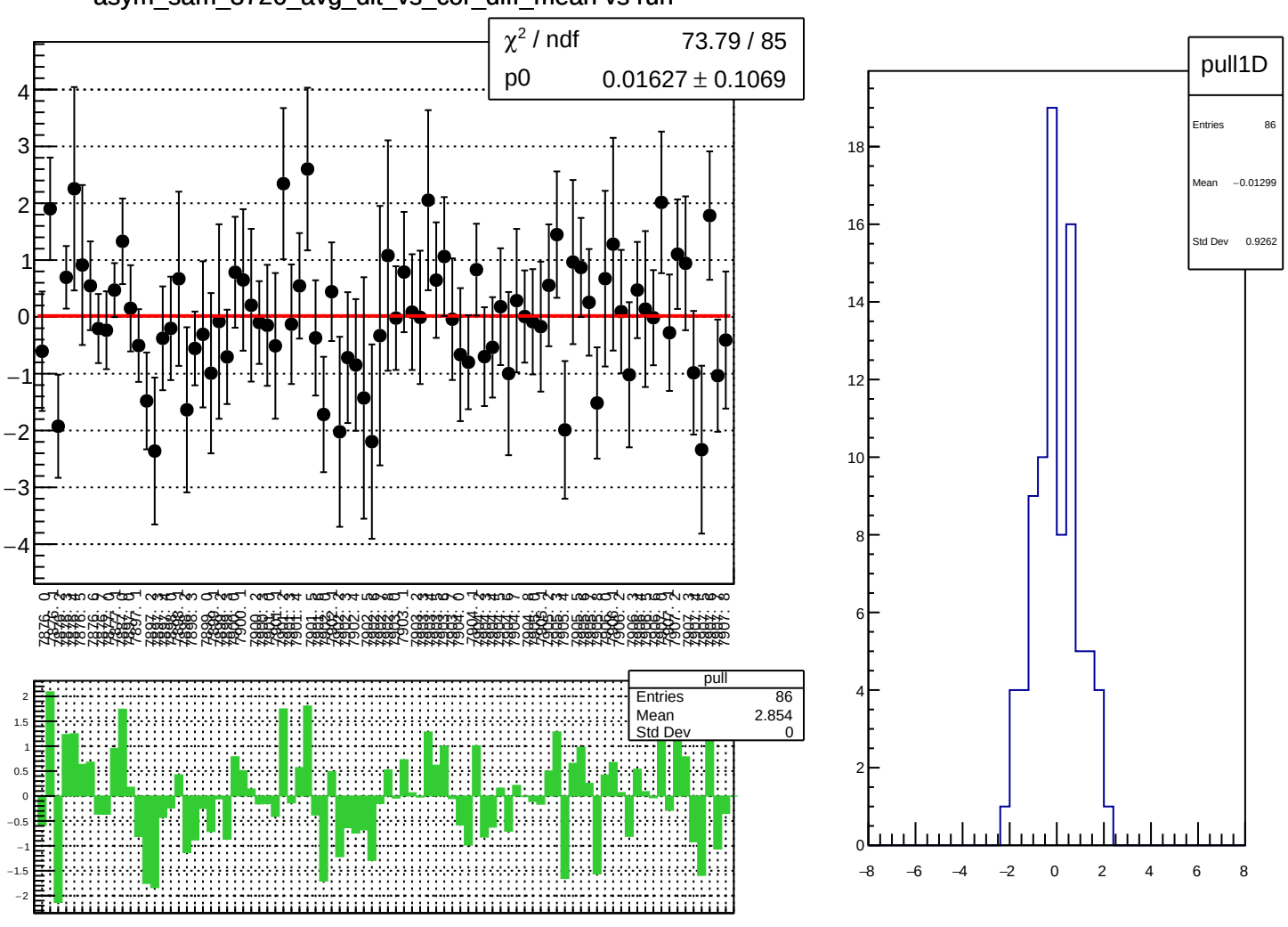

asym_sam_3726_avg_mean vs run
×10^3
χ² / ndf 84.02 / 85
p0 3844 ± 2578
100
50
0
−50
−100
pull
Entries 86
Mean 4.484
Std Dev 57.58
2
1
0
−1
−2
−3

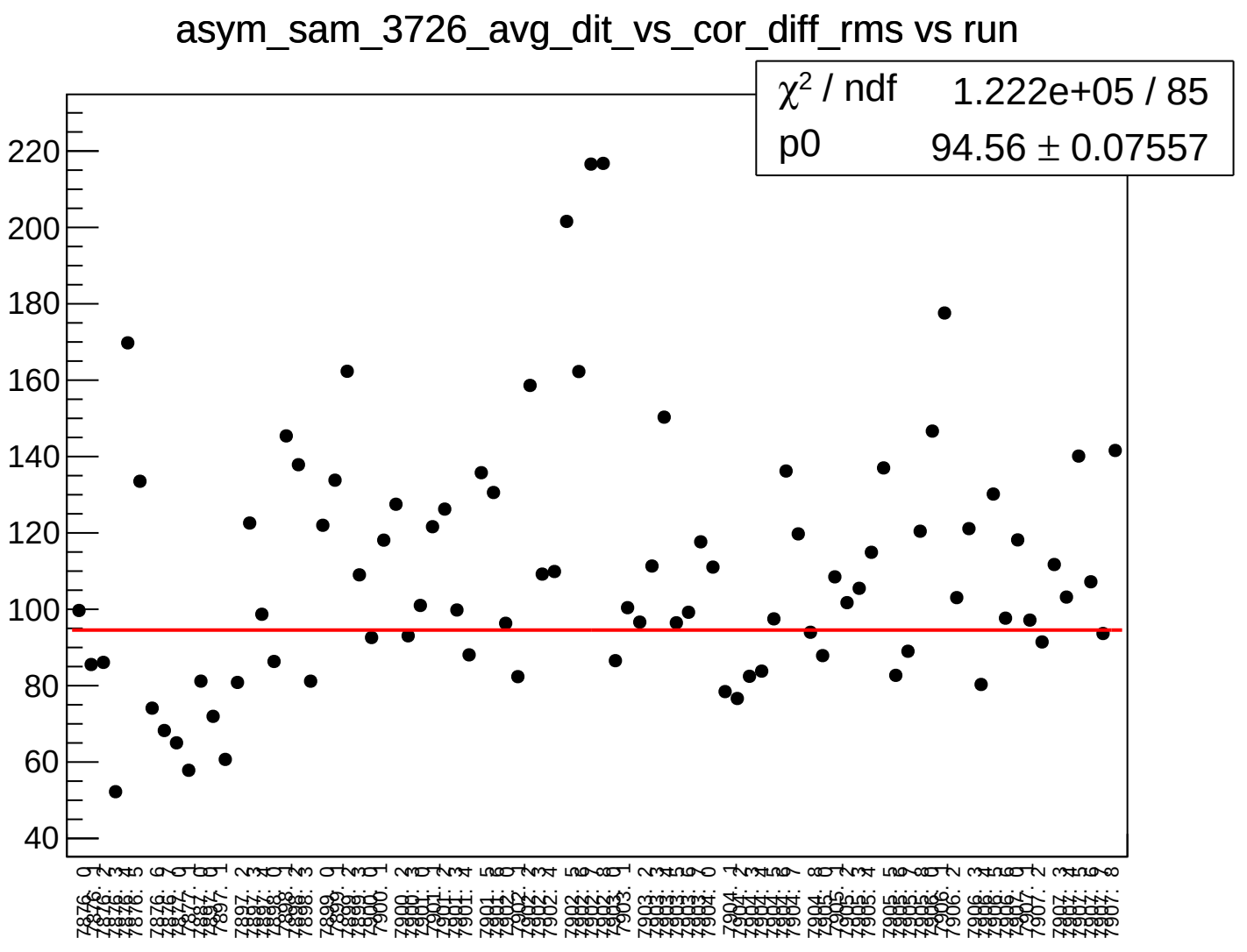

pull1D
Entries 86
Mean −0.01224
Std Dev 0.9883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

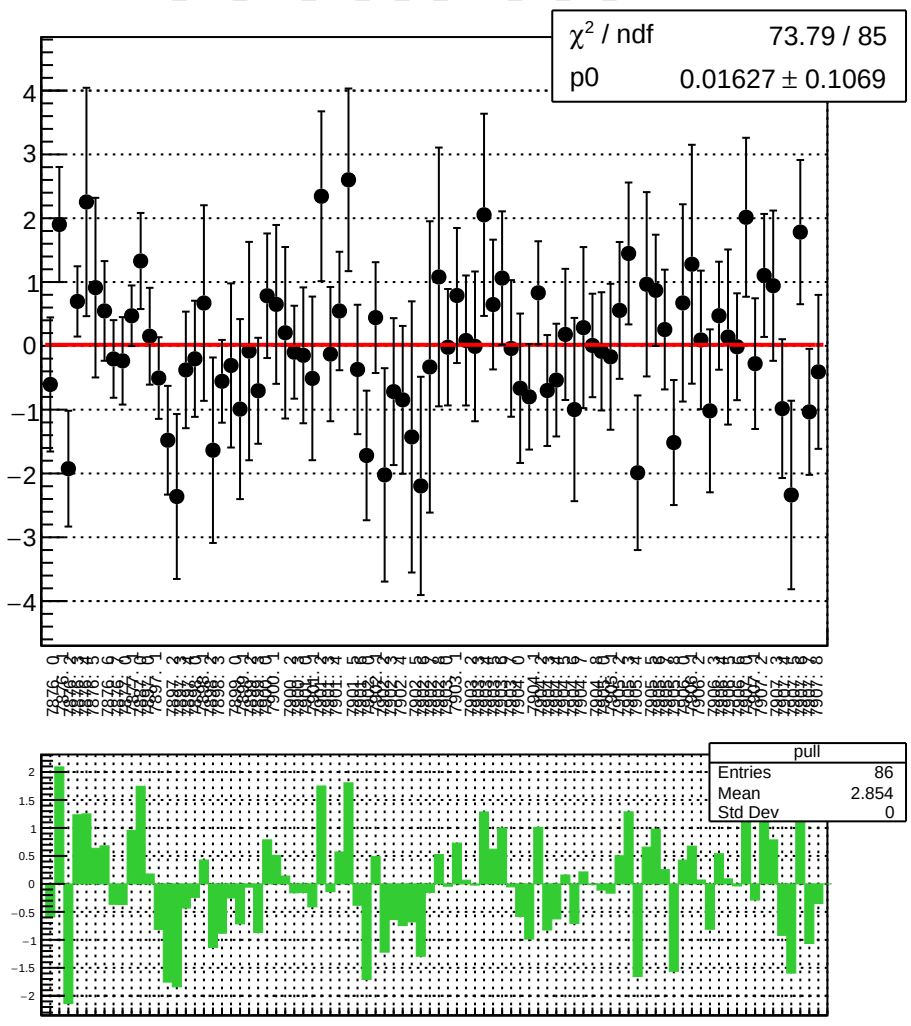

asym_sam_3726_avg_rms vs run
χ² / ndf 1.5e+04 / 85
p0 2358 ± 1.823
3000
2800
2600
2400
2200
2000

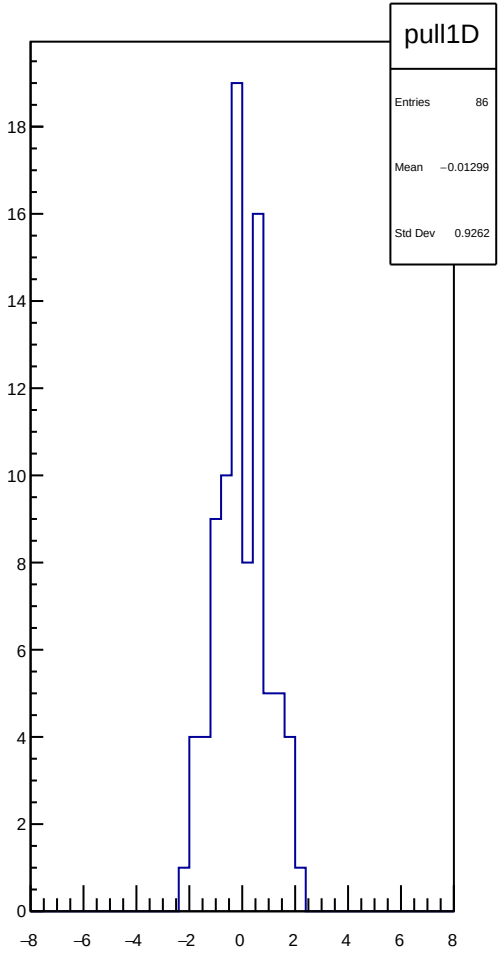

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.28 / 85
p0 1.748e−13 ± 1.206e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 86
Mean 74.94
Std Dev 0
pull1D
Entries 86
Mean 0.1589
Std Dev 0.9591
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

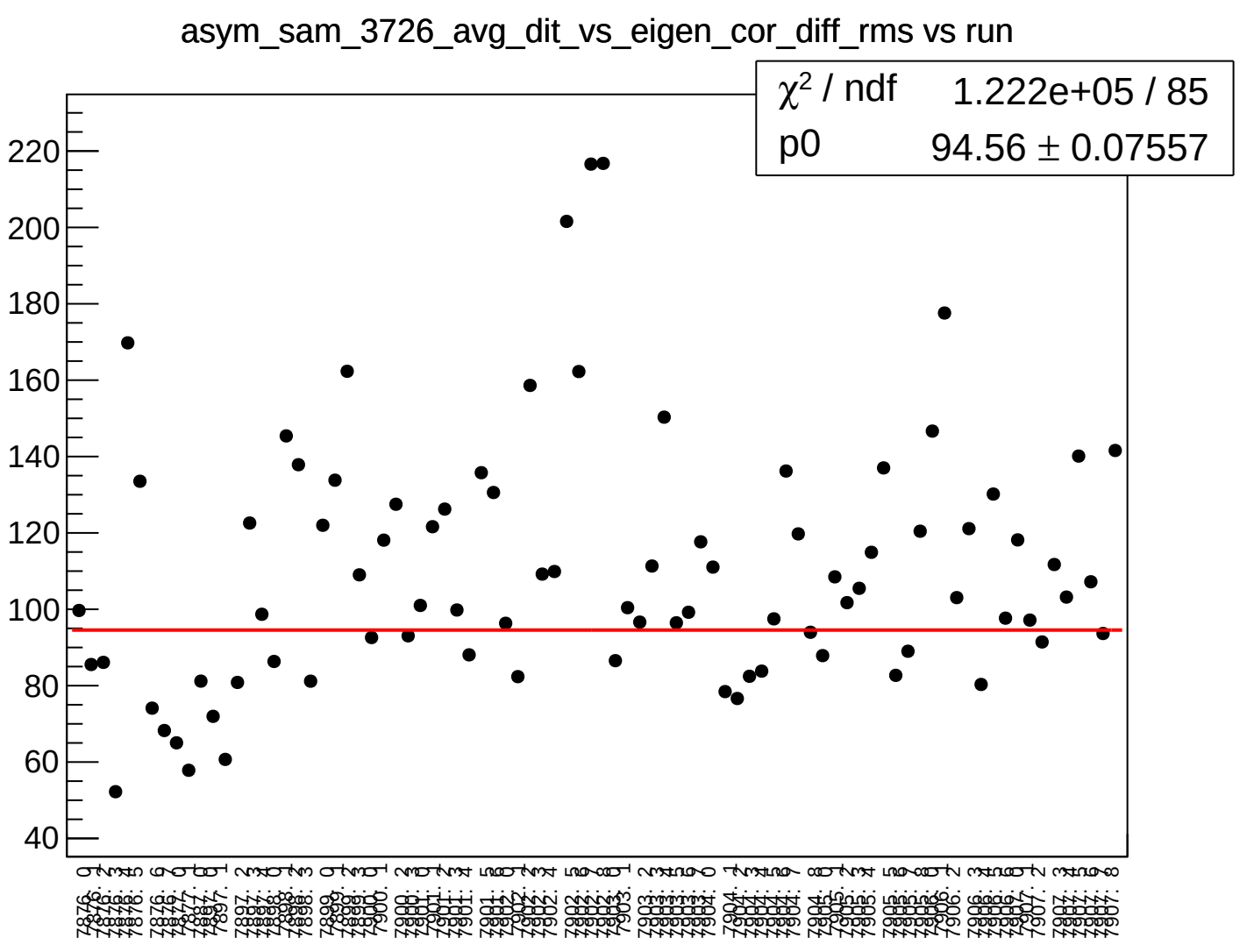

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.541e+06 / 85
p0 3.269e−11 ± 8.527e−14
0.5
0.4
0.3
0.2
0.1
0

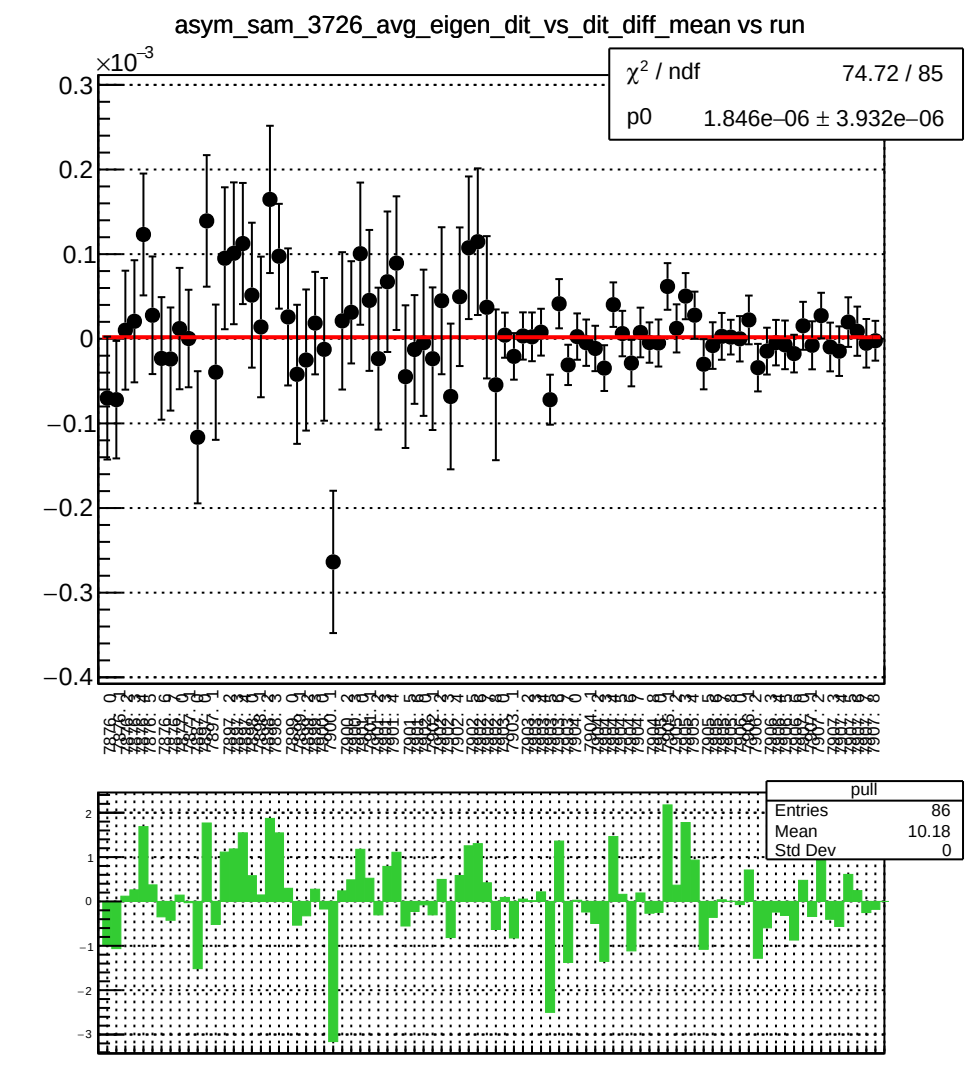

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.79 / 85
p0 0.01627 ± 0.1069
pull
Entries 86
Mean 2.854
Std Dev 0
pull1D
Entries 86
Mean −0.01299
Std Dev 0.9262

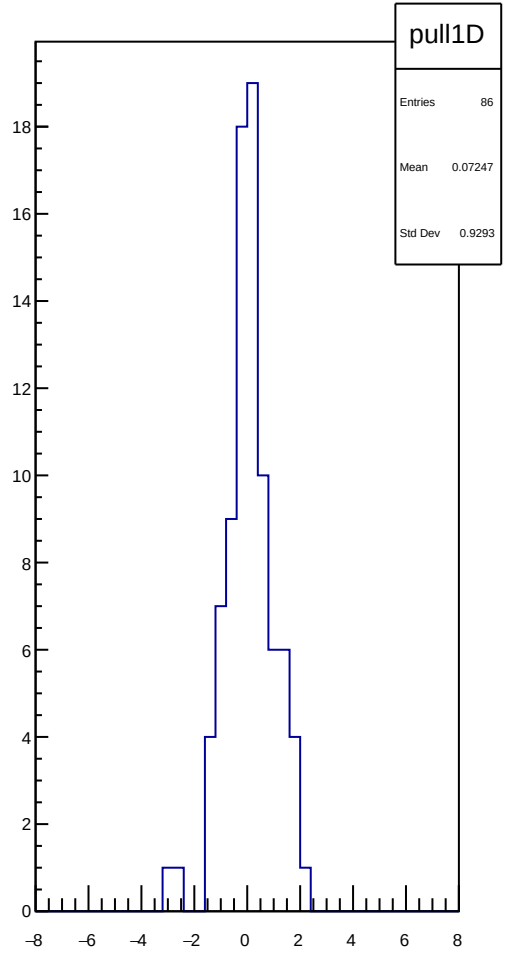

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.222e+05 / 85
p0 94.56 ± 0.07557
220
200
180
160
140
120
100
80
60
40

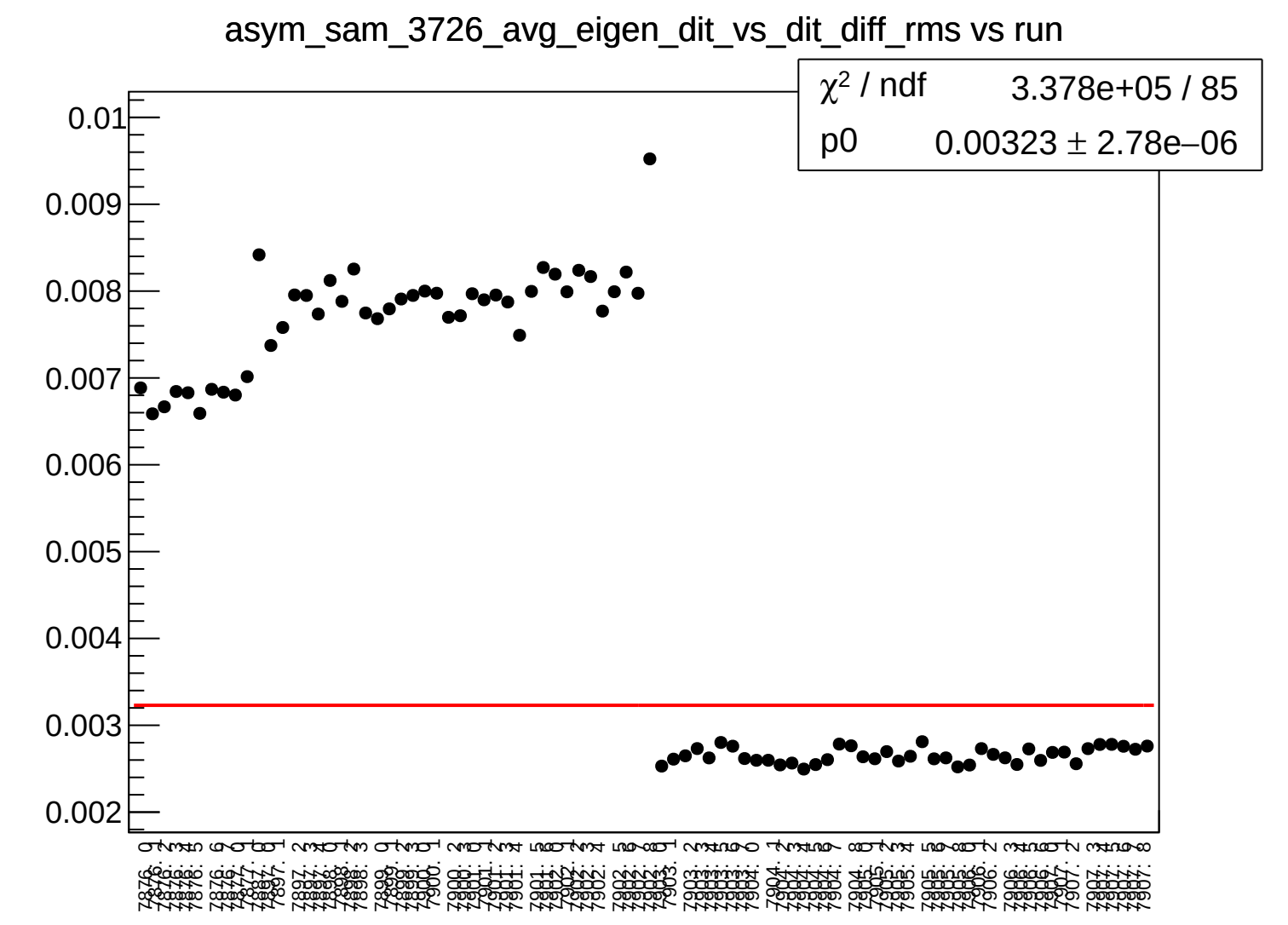

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.79 / 85
p0 0.01627 ± 0.1069
pull
Entries 86
Mean 2.854
Std Dev 0

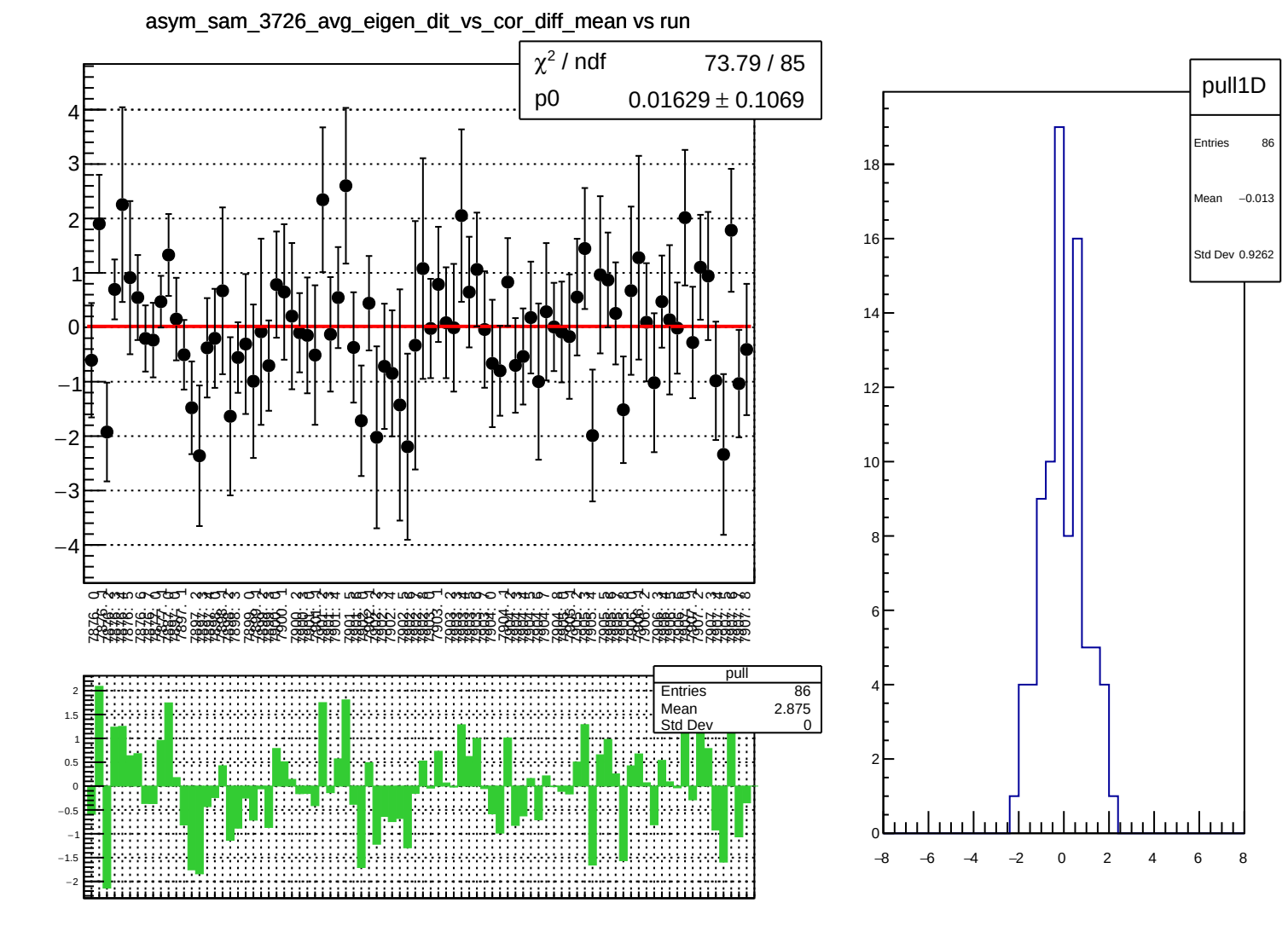

pull1D
Entries 86
Mean −0.01299
Std Dev 0.9262

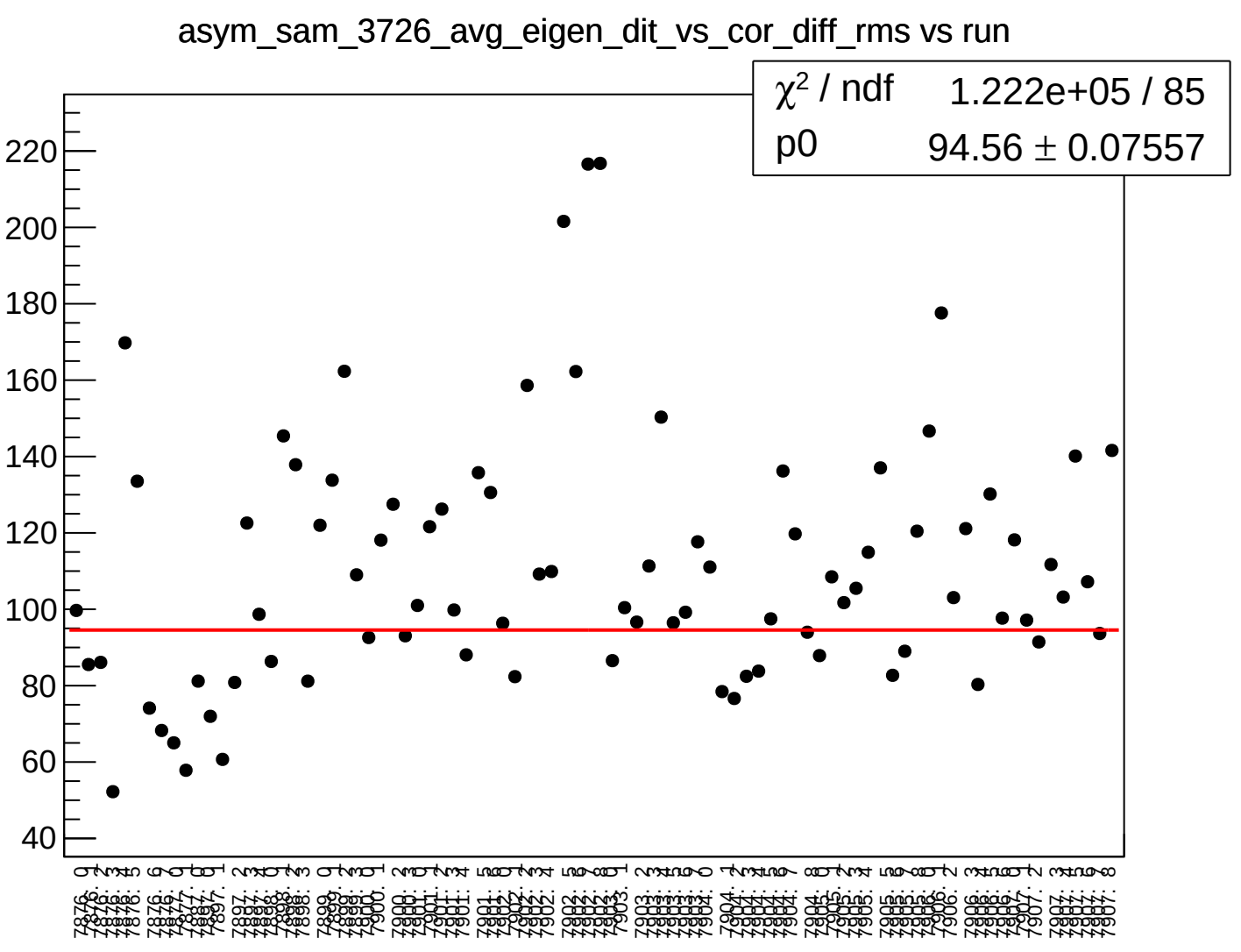

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.222e+05 / 85
p0 94.56 ± 0.07557
220
200
180
160
140
120
100
80
60
40

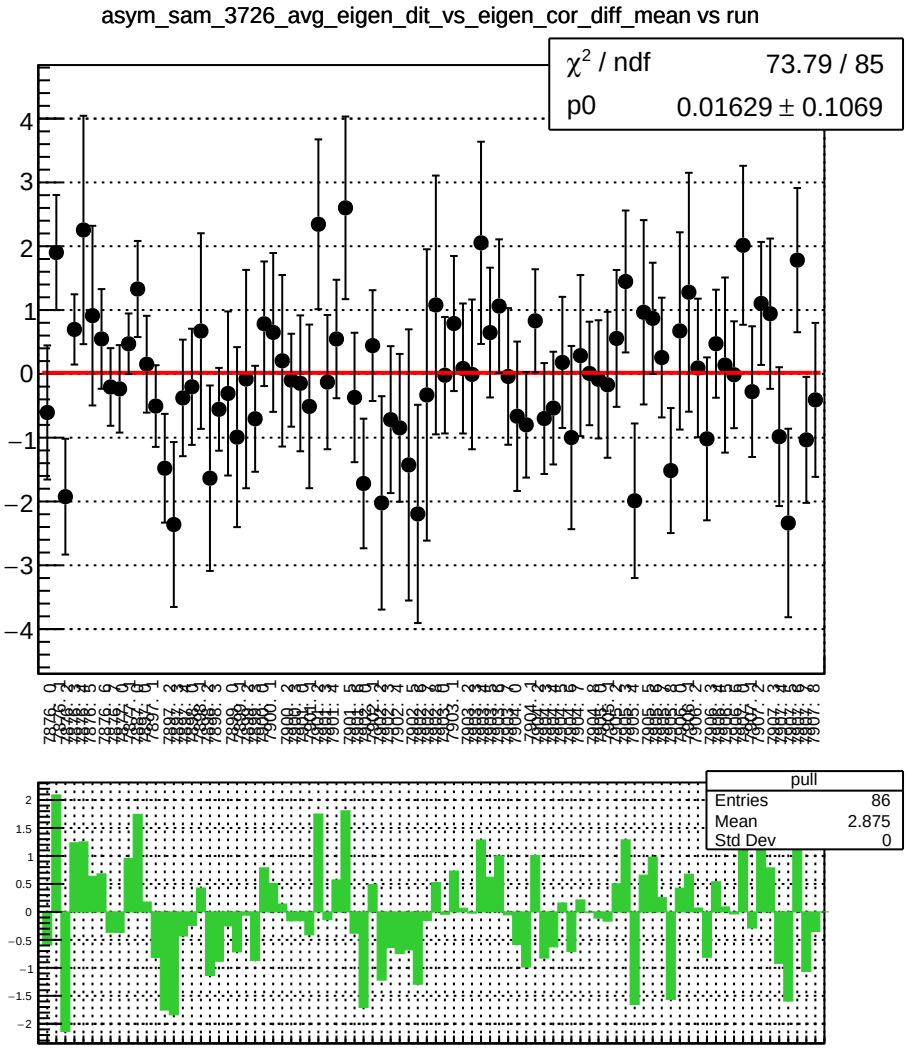

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.72 / 85
p0 1.846e−06 ± 3.932e−06
pull
Entries 86
Mean 10.18
Std Dev 0

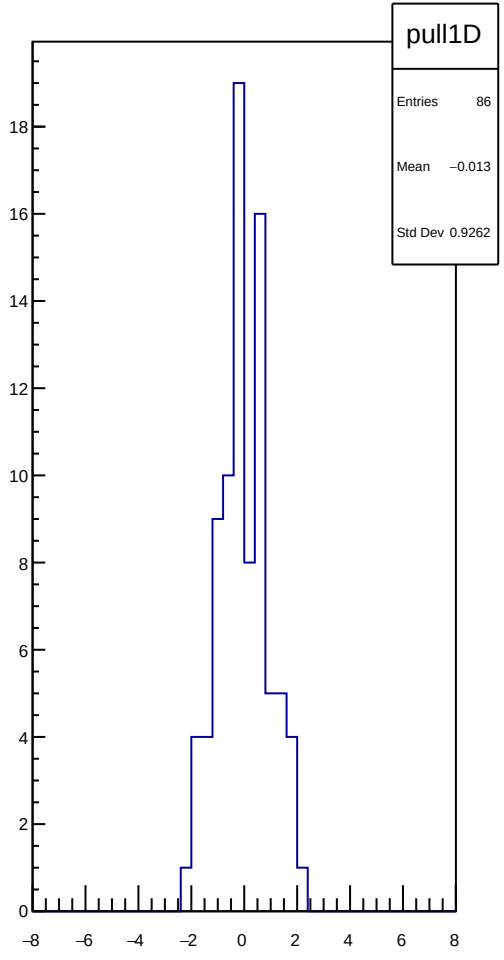

pull1D
Entries 86
Mean 0.07247
Std Dev 0.9293

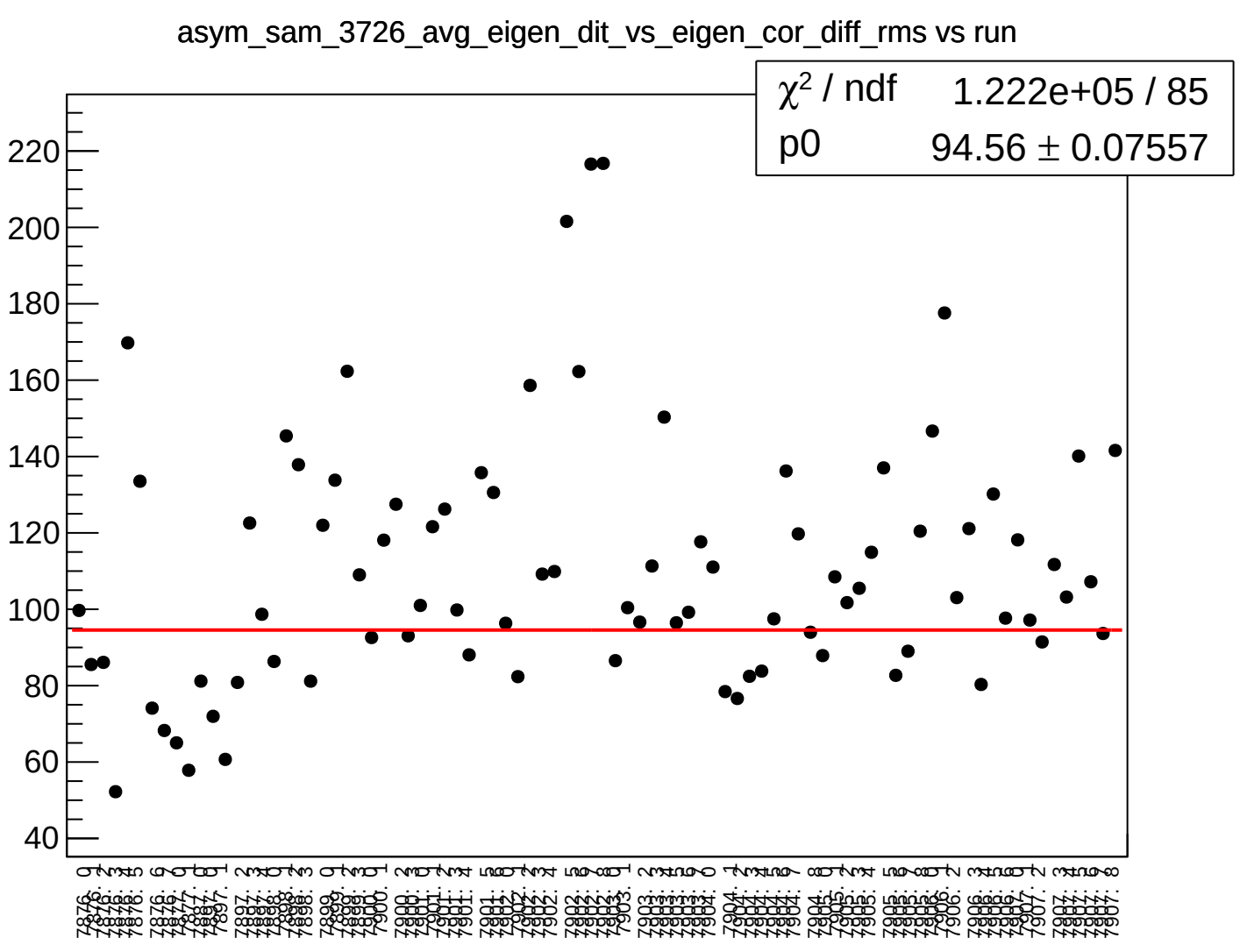

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.378e+05 / 85
p0 0.00323 ± 2.78e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

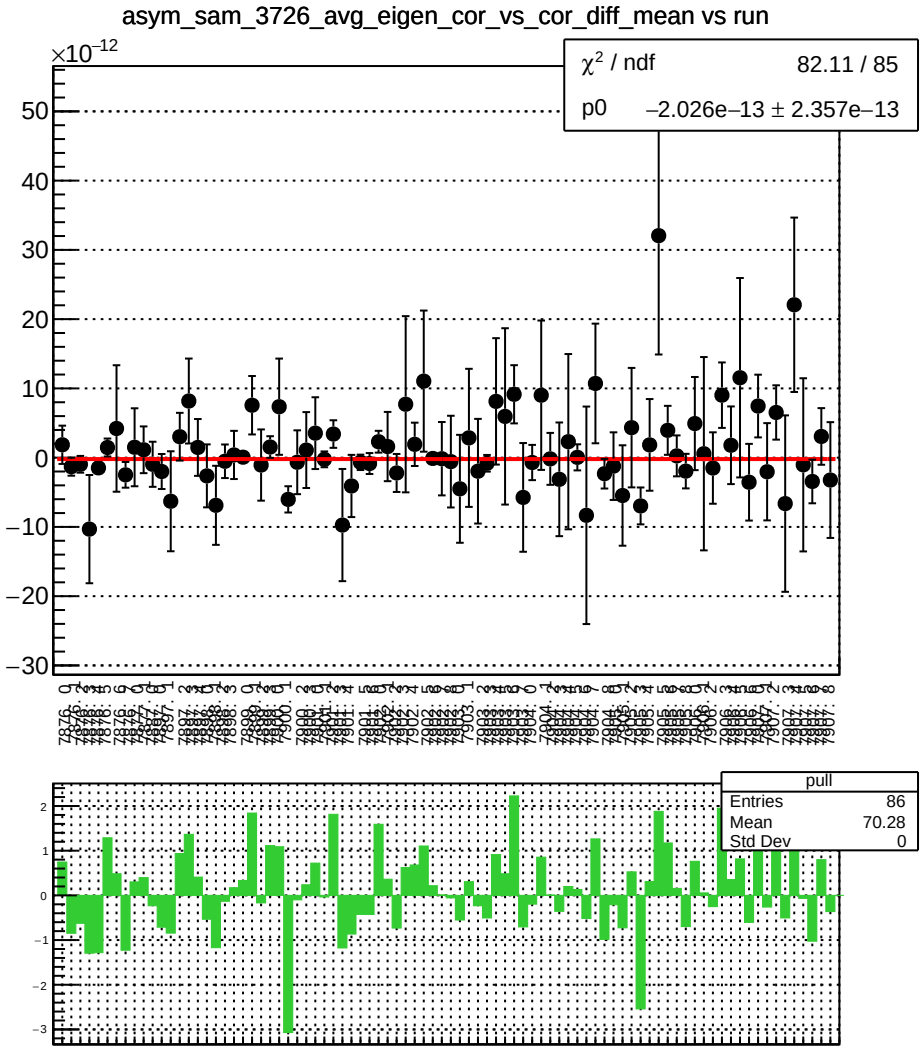

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.79 / 85
p0 0.01629 ± 0.1069
pull
Entries 86
Mean 2.875
Std Dev 0
pull1D
Entries 86
Mean −0.013
Std Dev 0.9262

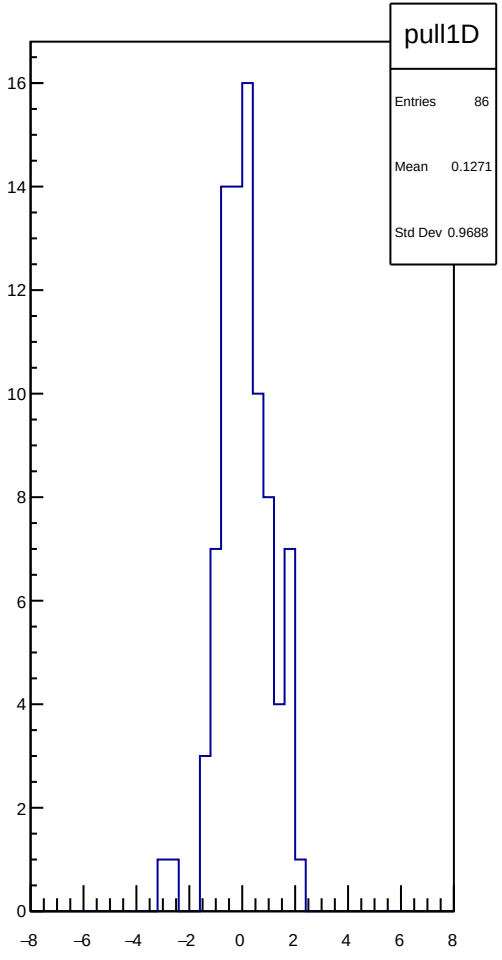

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.222e+05 / 85
p0 94.56 ± 0.07557
220
200
180
160
140
120
100
80
60
40

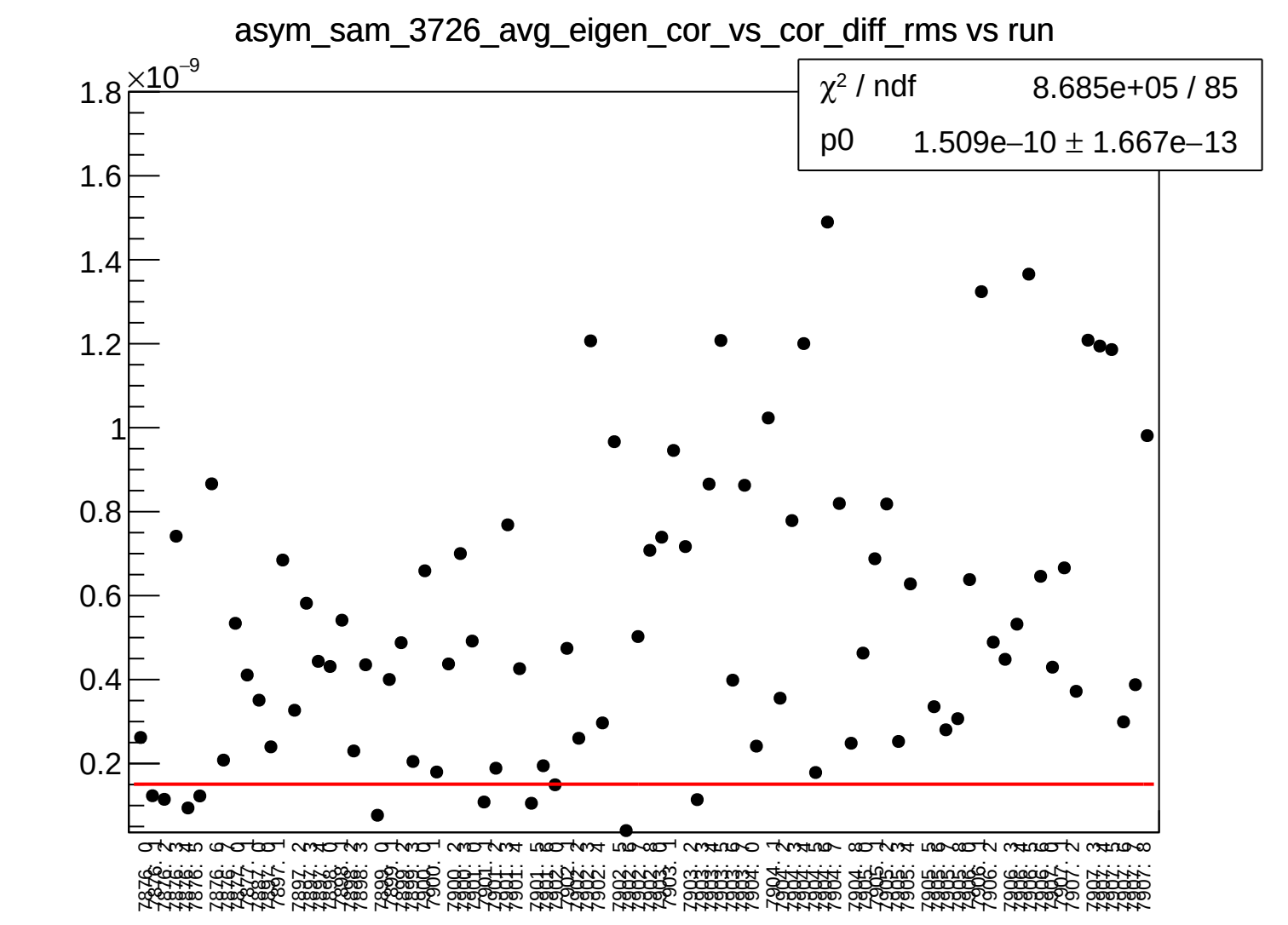

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.79 / 85
p0 0.01629 ± 0.1069
pull
Entries 86
Mean 2.875
Std Dev 0

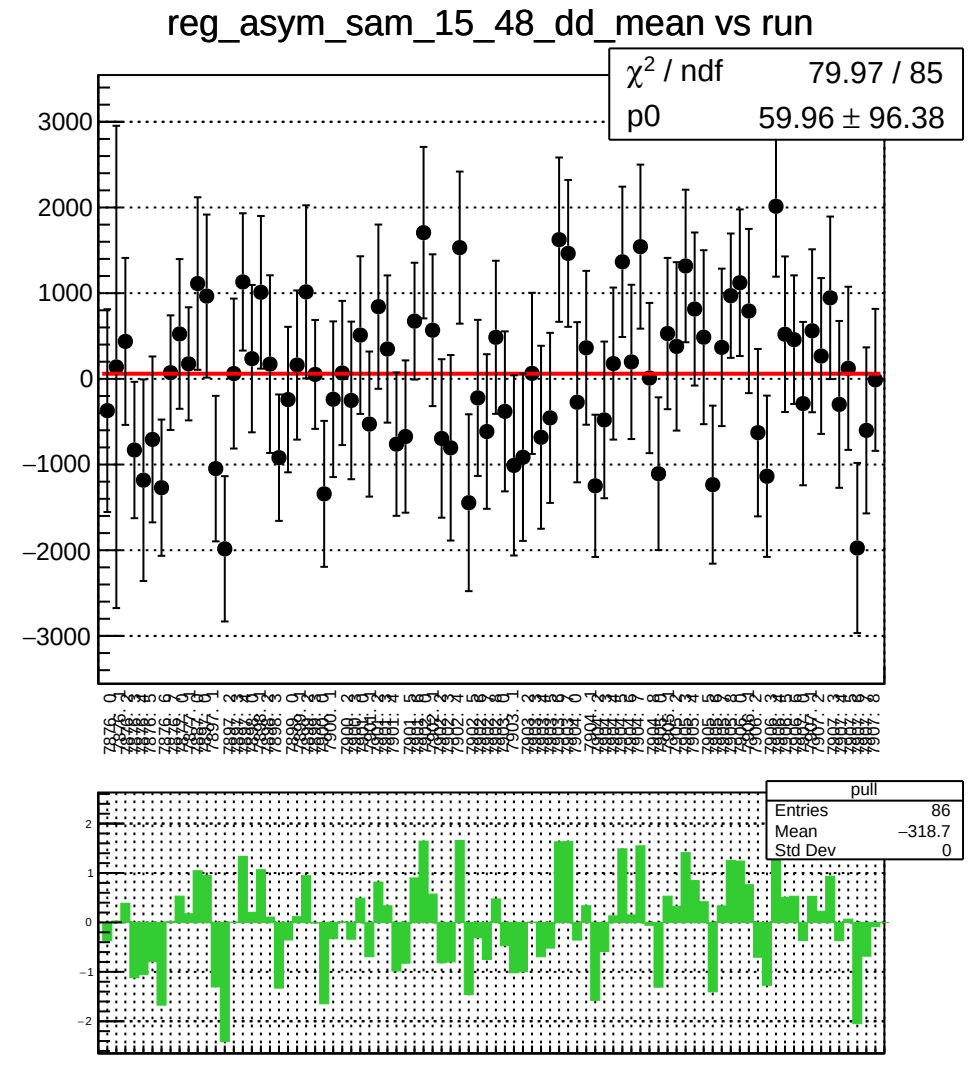

pull1D
Entries 86
Mean −0.013
Std Dev 0.9262

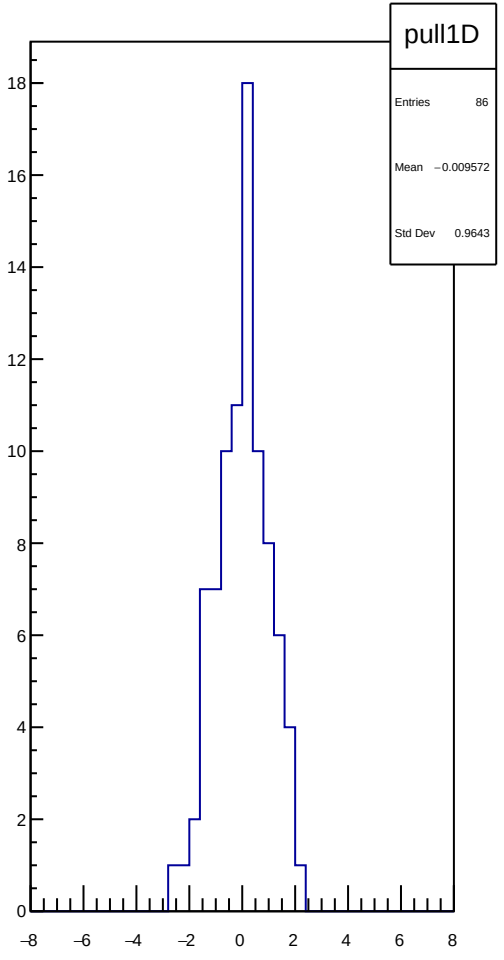

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.222e+05 / 85
p0 94.56 ± 0.07557
220
200
180
160
140
120
100
80
60
40

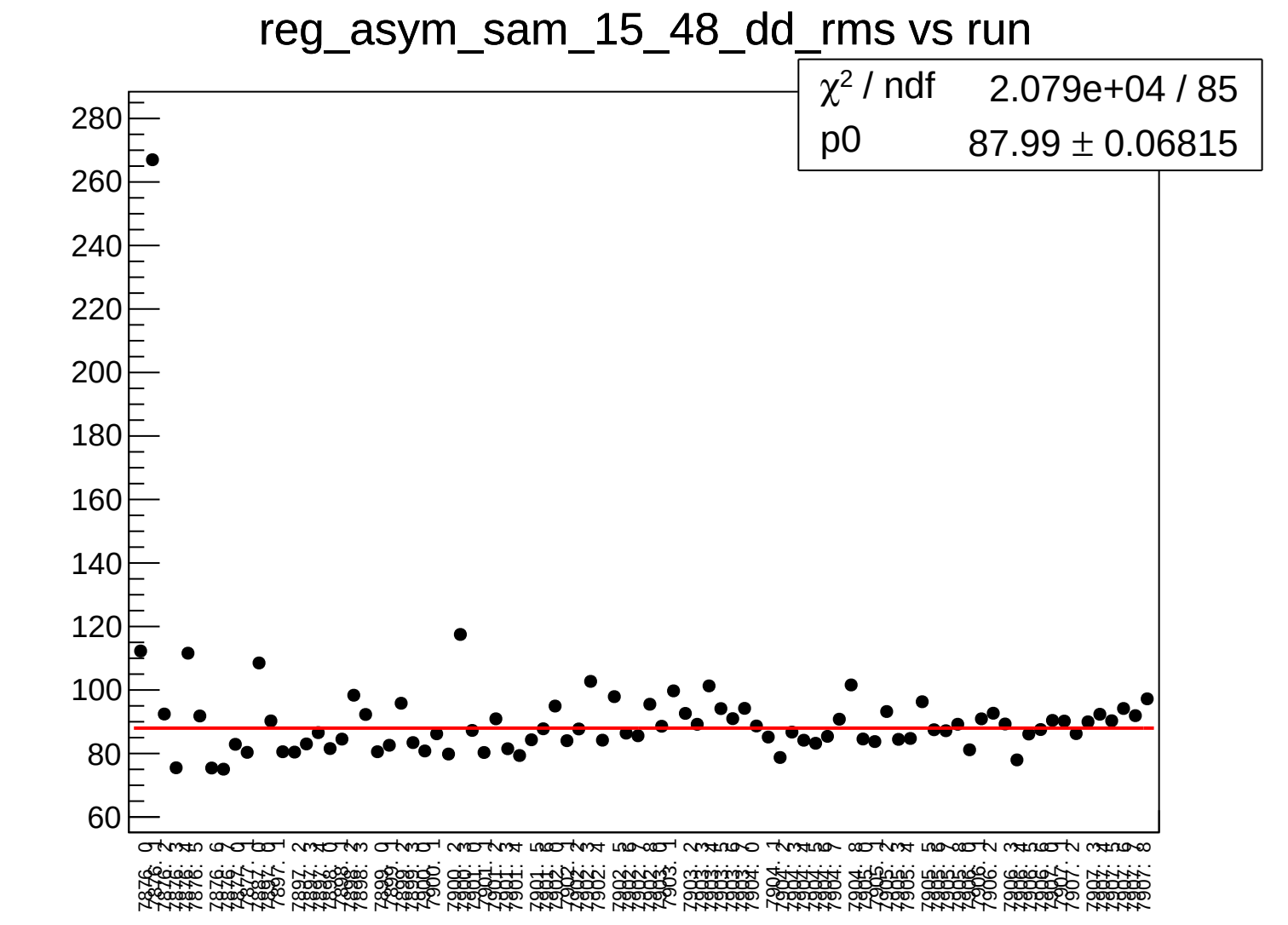

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.11 / 85
p0 −2.026e−13 ± 2.357e−13
pull
Entries 86
Mean 70.28
Std Dev 0

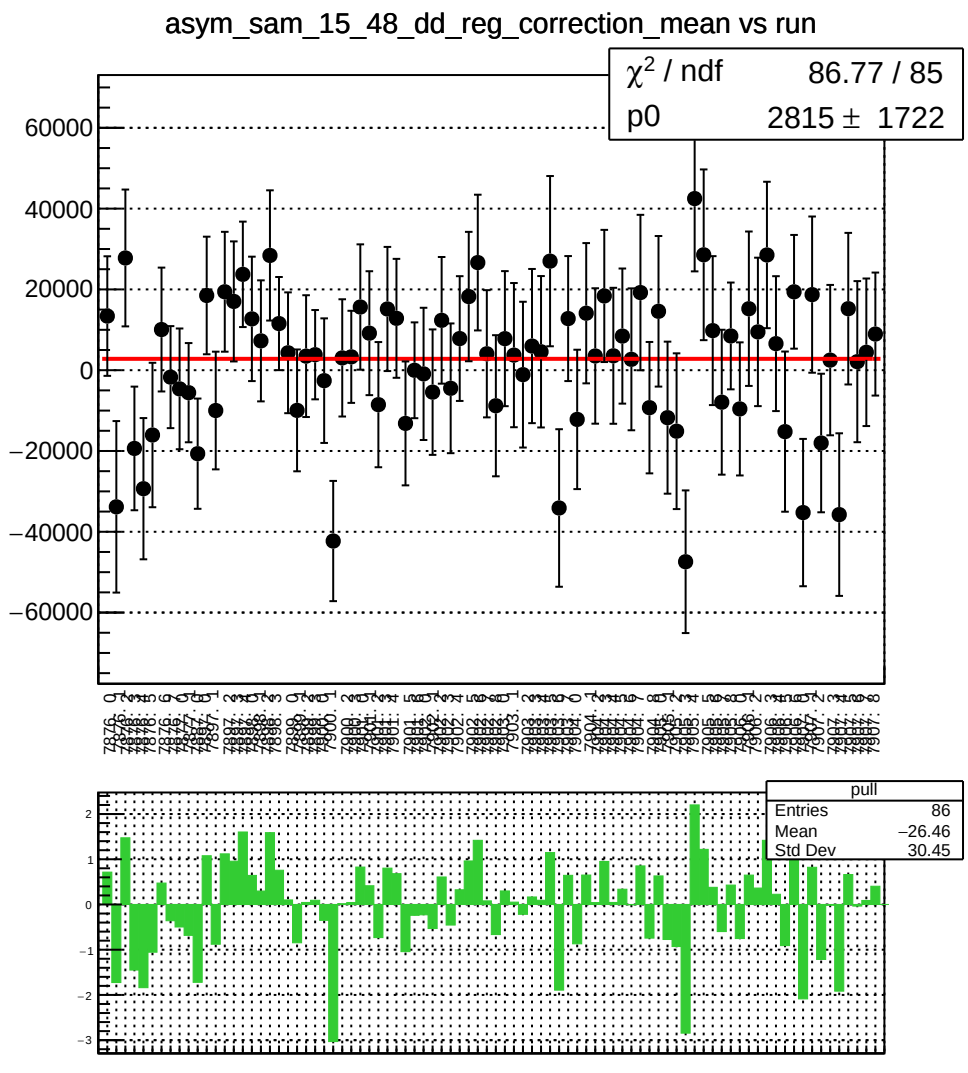

pull1D
Entries 86
Mean 0.1271
Std Dev 0.9688

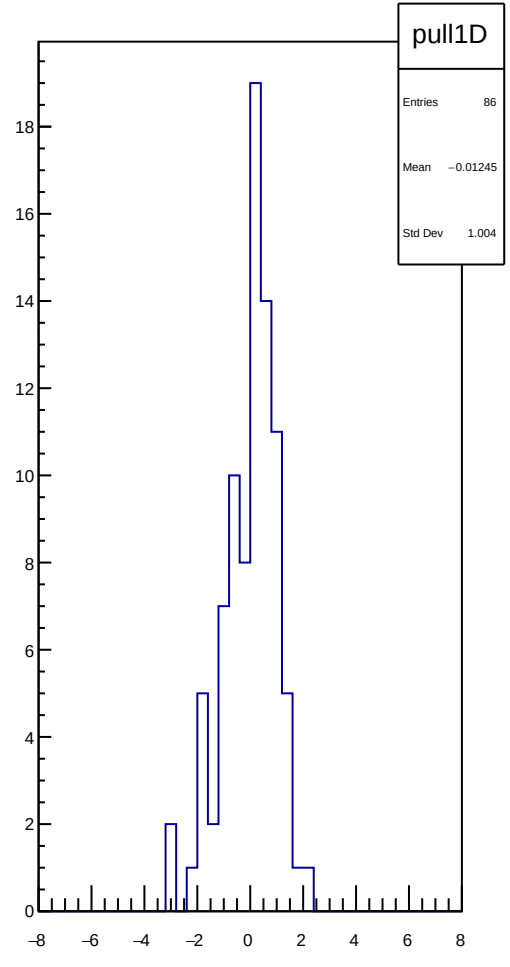

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 8.685e+05 / 85
p0 1.509e−10 ± 1.667e−13

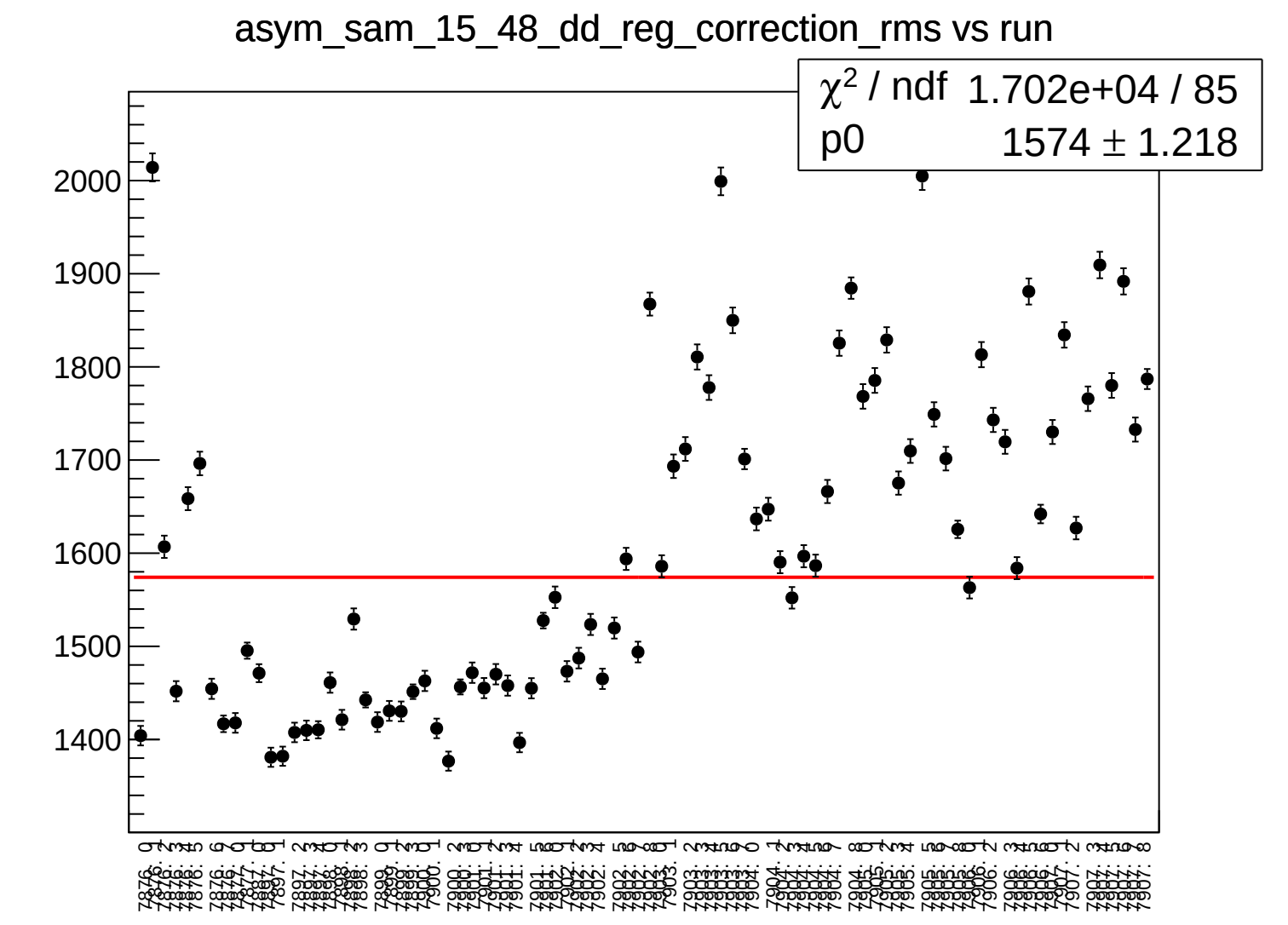

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 79.97 / 85
p0 59.96 ± 96.38
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −318.7
Std Dev 0
2
1
0
−1
−2

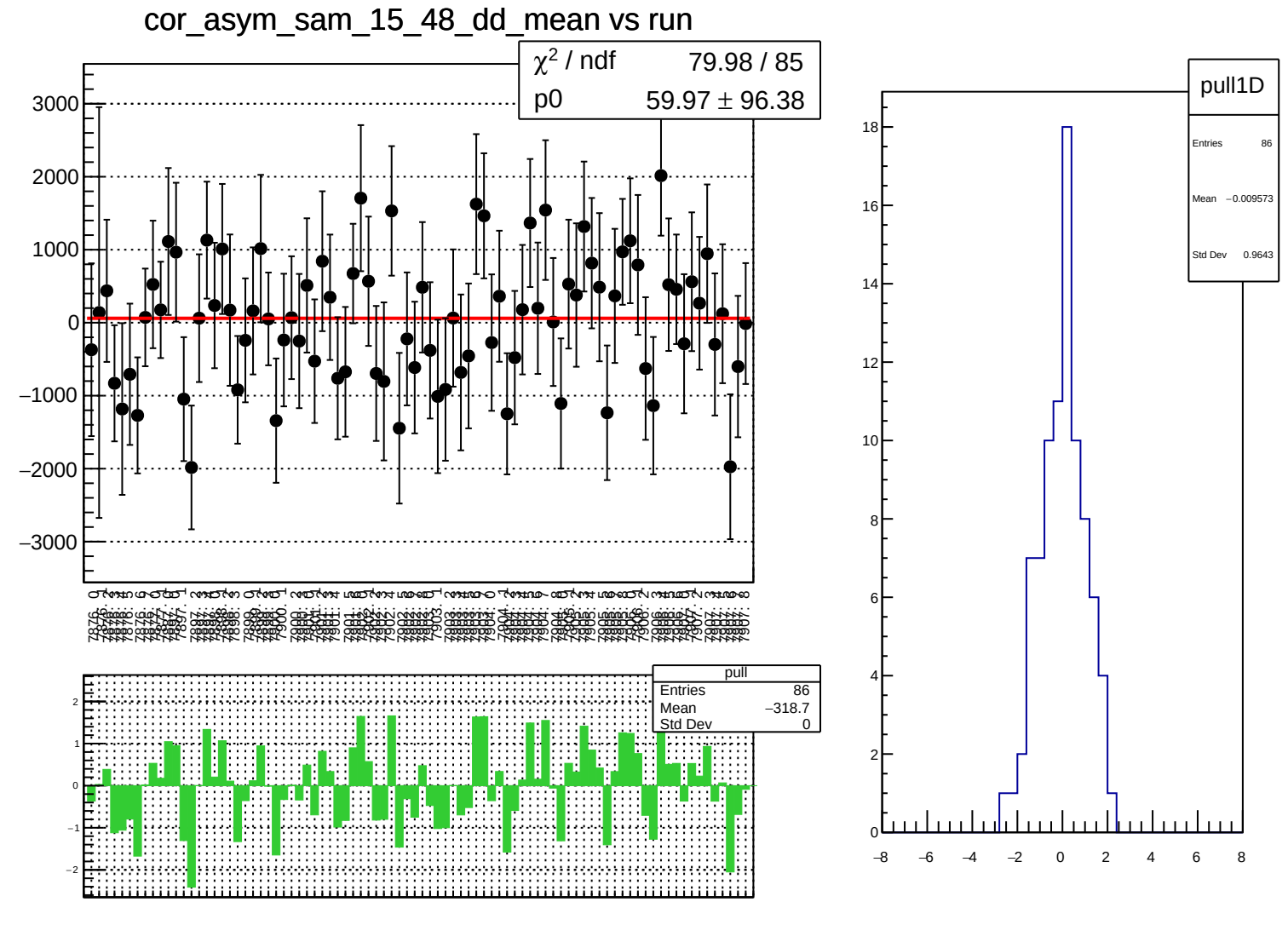

pull1D
Entries 86
Mean −0.009572
Std Dev 0.9643
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

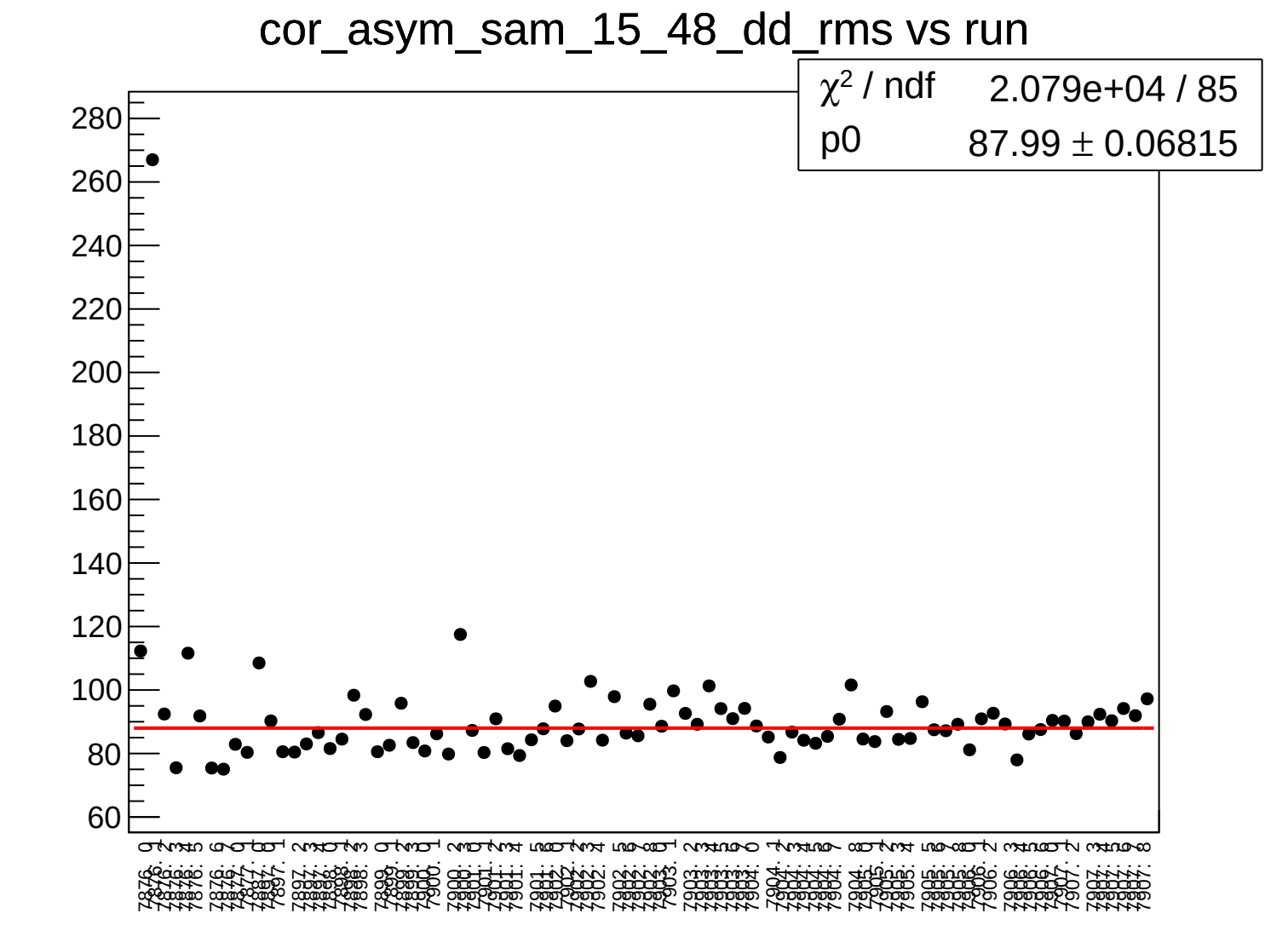

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2.079e+04 / 85
p0 87.99 ± 0.06815
280
260
240
220
200
180
160
140
120
100
80
60

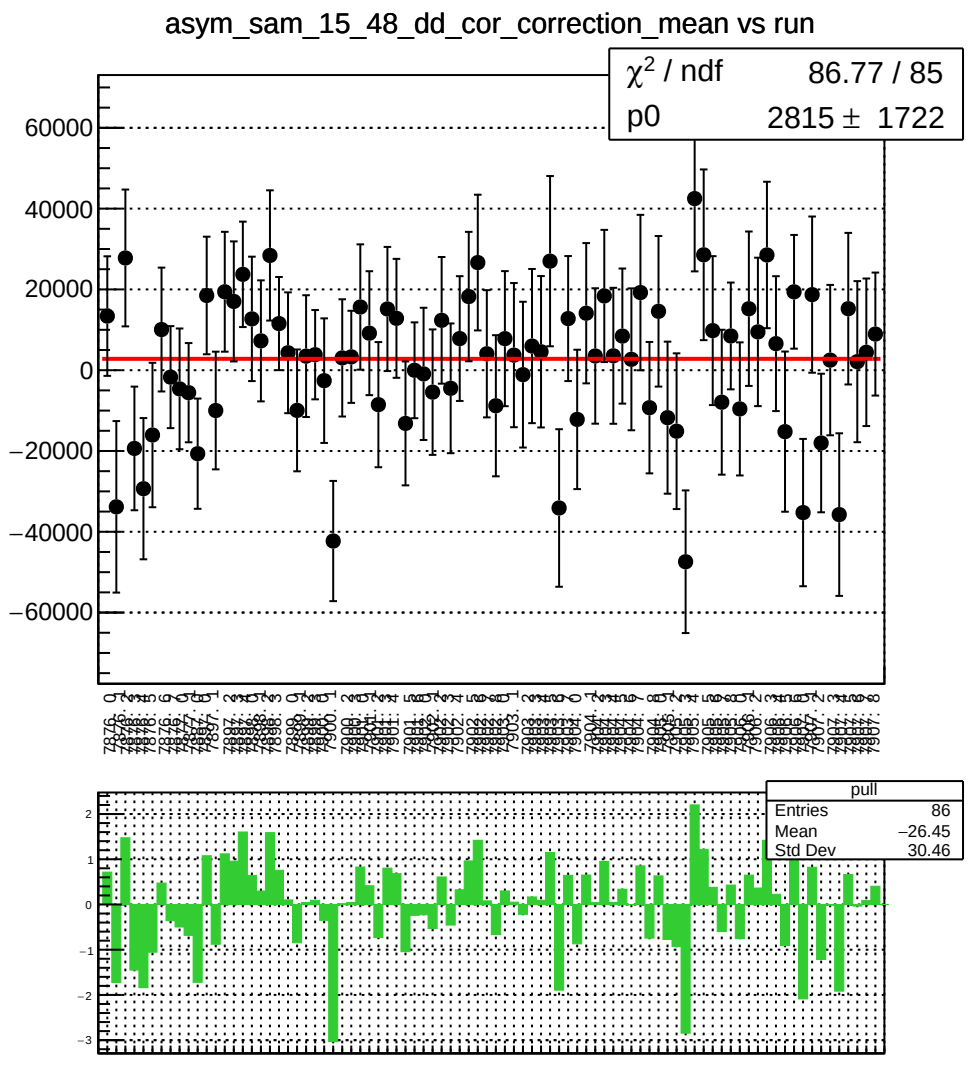

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 86.77 / 85
p0 2815 ± 1722
pull
Entries 86
Mean −26.46
Std Dev 30.45

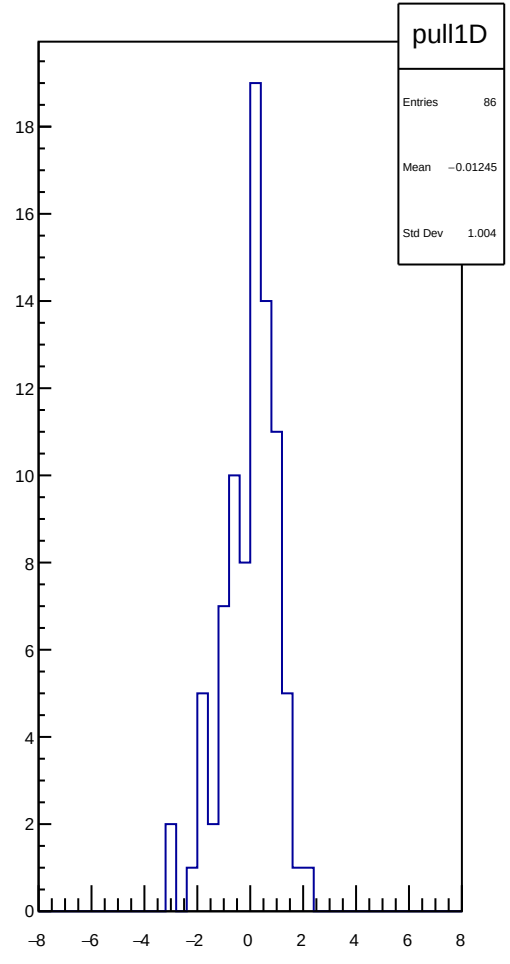

pull1D
Entries 86
Mean −0.01245
Std Dev 1.004

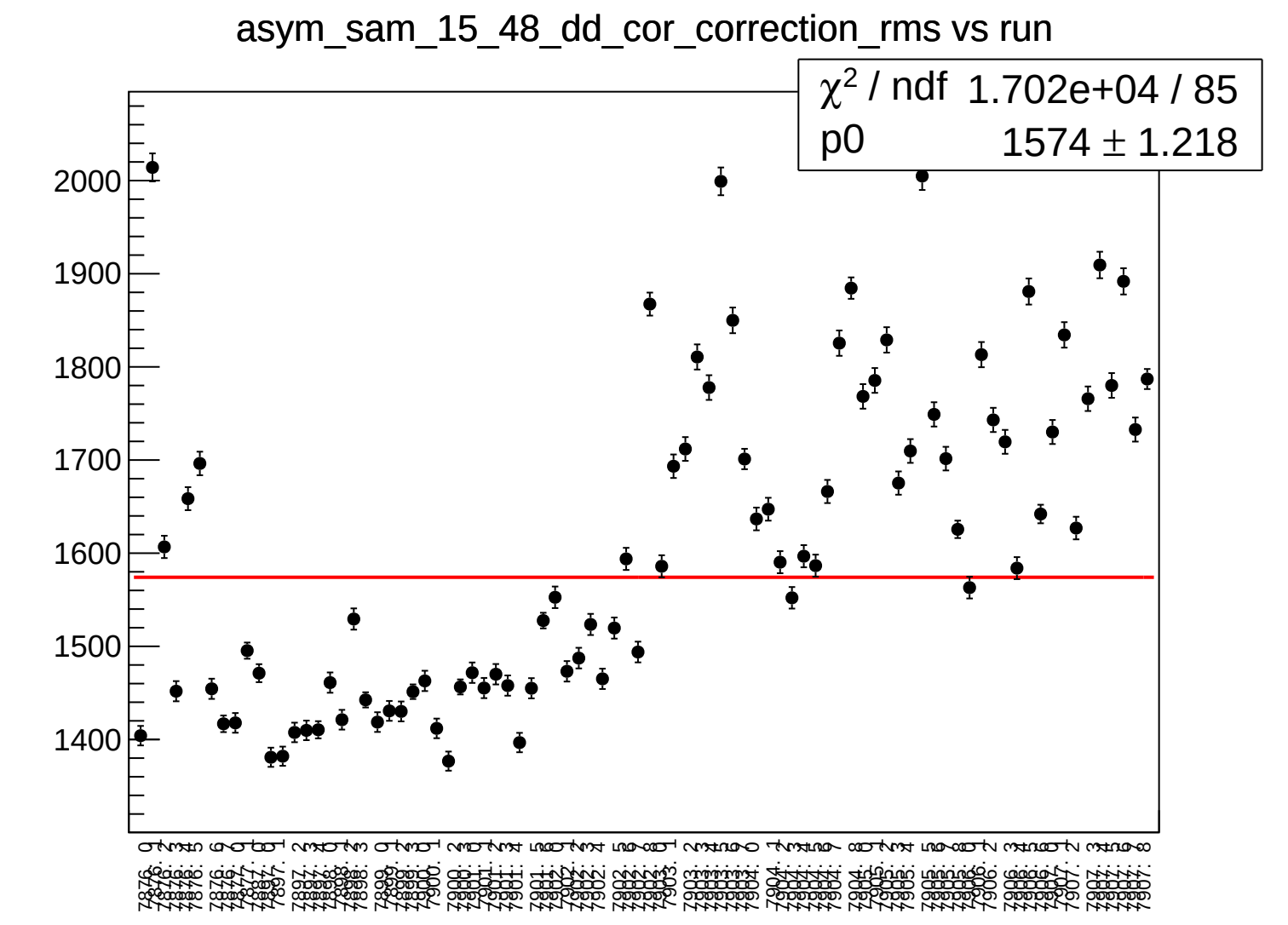

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.702e+04 / 85
p0 1574 ± 1.218
2000
1900
1800
1700
1600
1500
1400

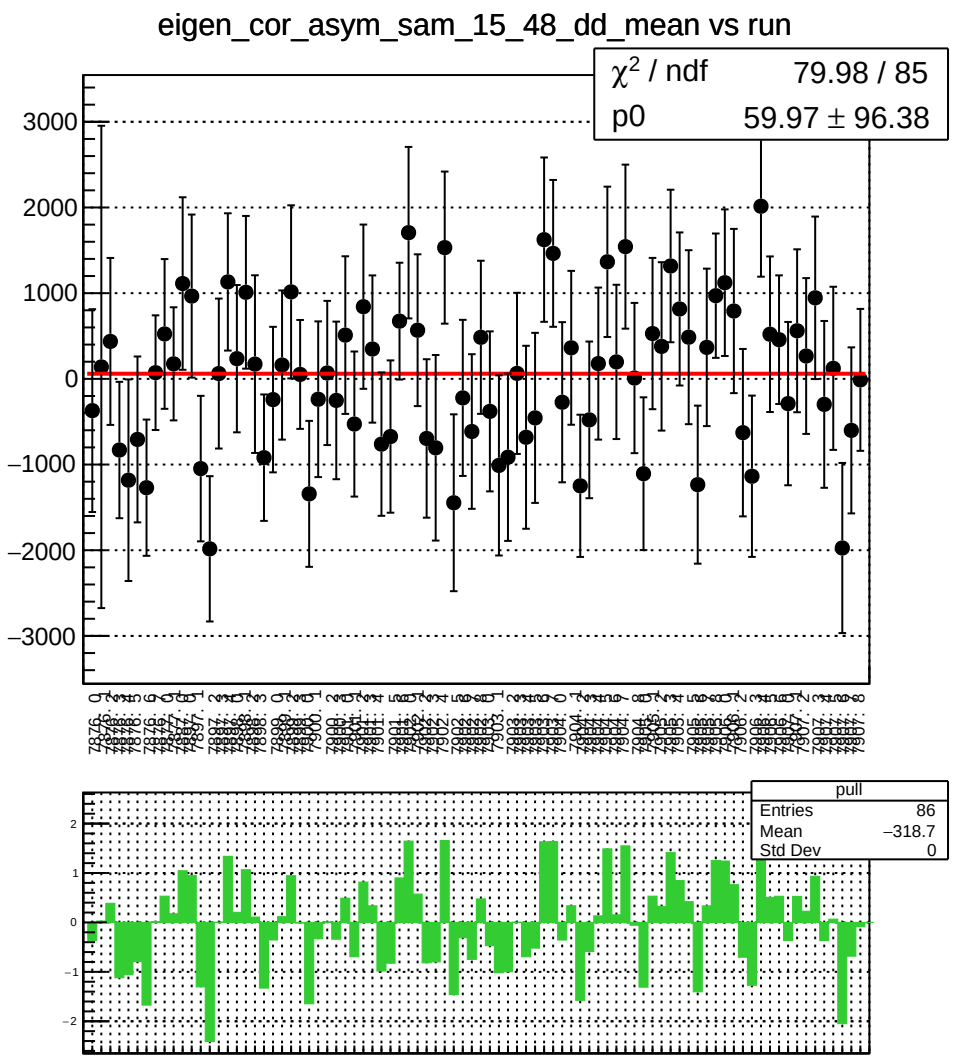

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 79.98 / 85
p0 59.97 ± 96.38
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −318.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.009573
Std Dev 0.9643
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

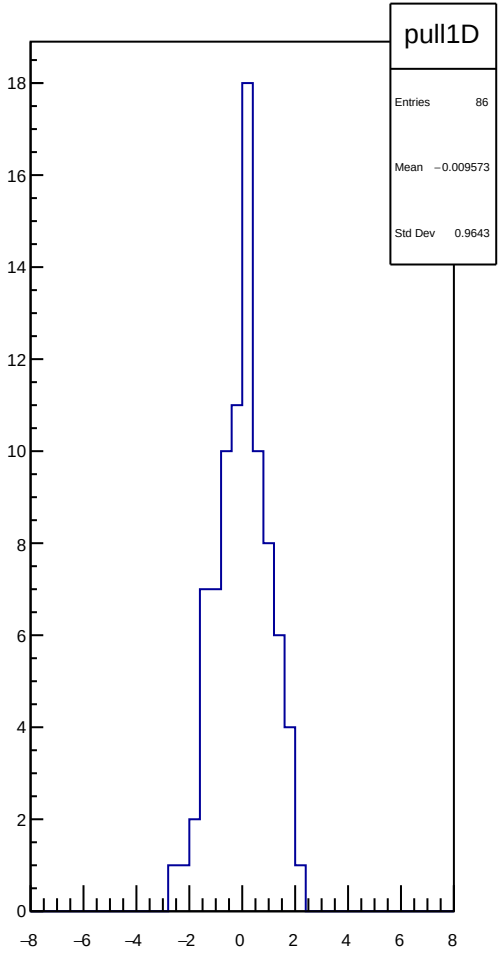

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2.079e+04 / 85
p0 87.99 ± 0.06815
280
260
240
220
200
180
160
140
120
100
80
60

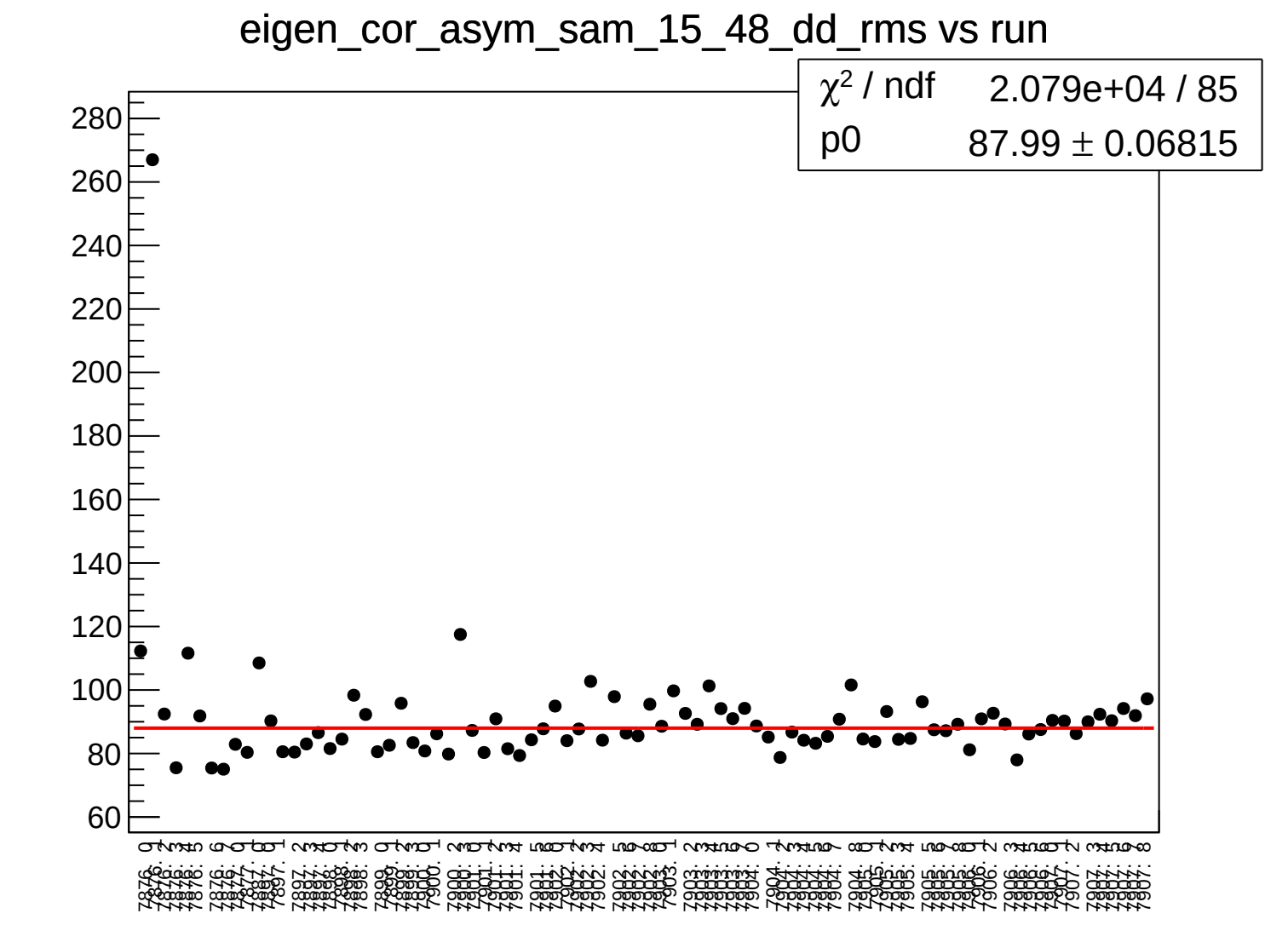

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 86.77 / 85
p0 2815 ± 1722
pull
Entries 86
Mean −26.45
Std Dev 30.46

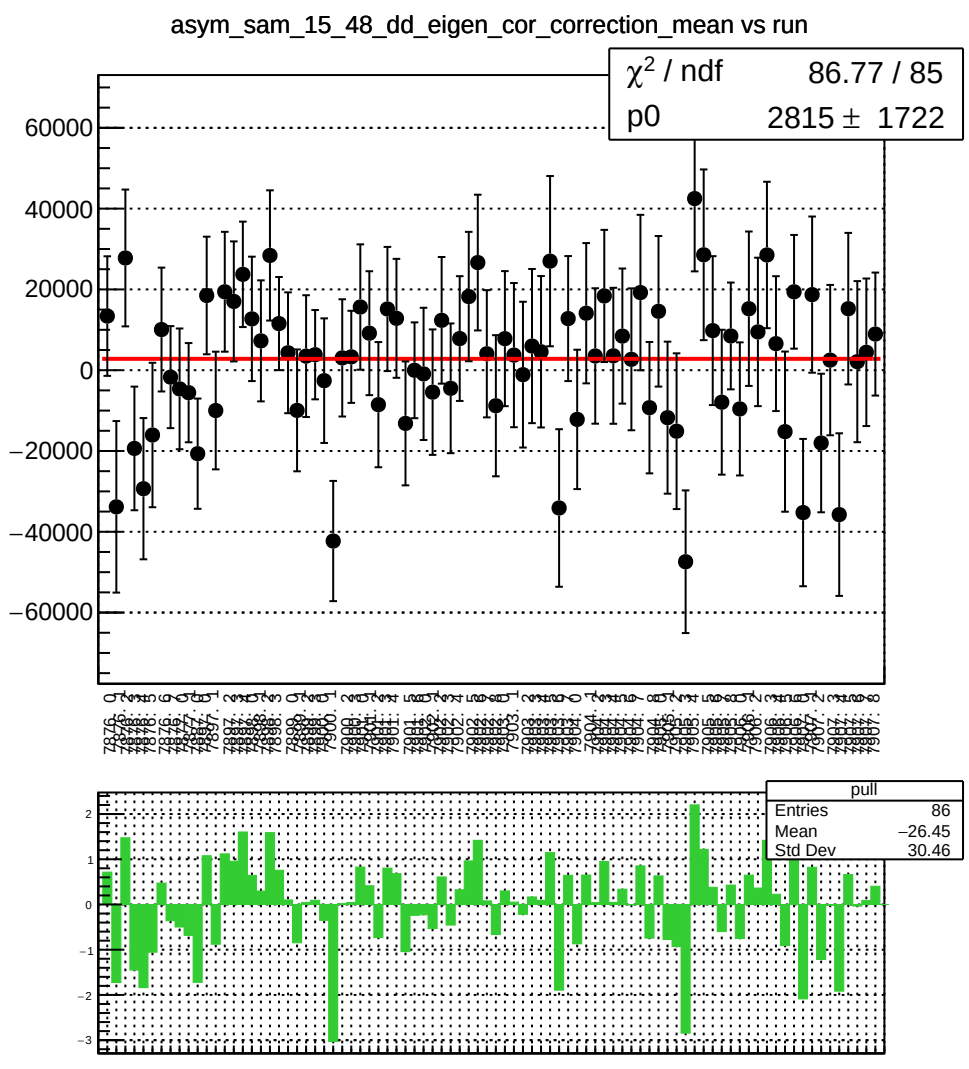

pull1D
Entries 86
Mean −0.01245
Std Dev 1.004

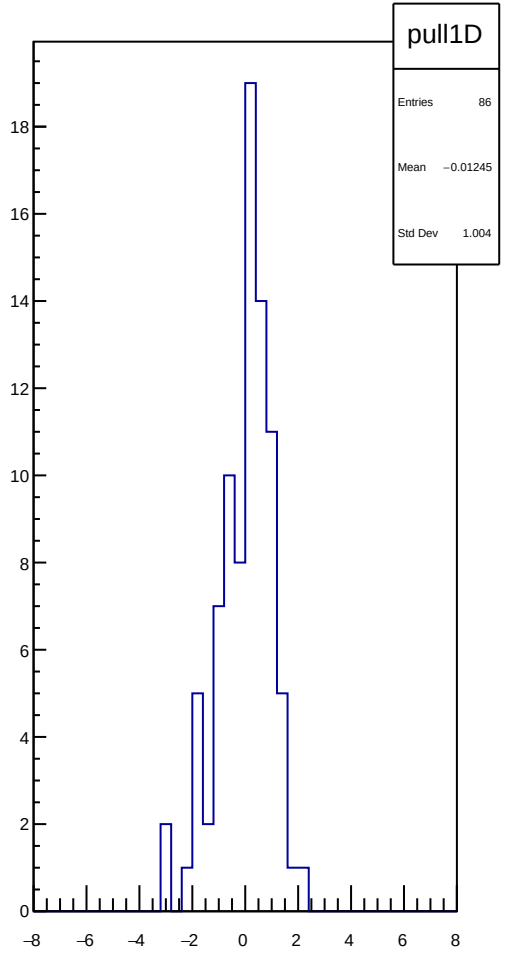

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.702e+04 / 85
p0 1574 ± 1.218
2000
1900
1800
1700
1600
1500
1400

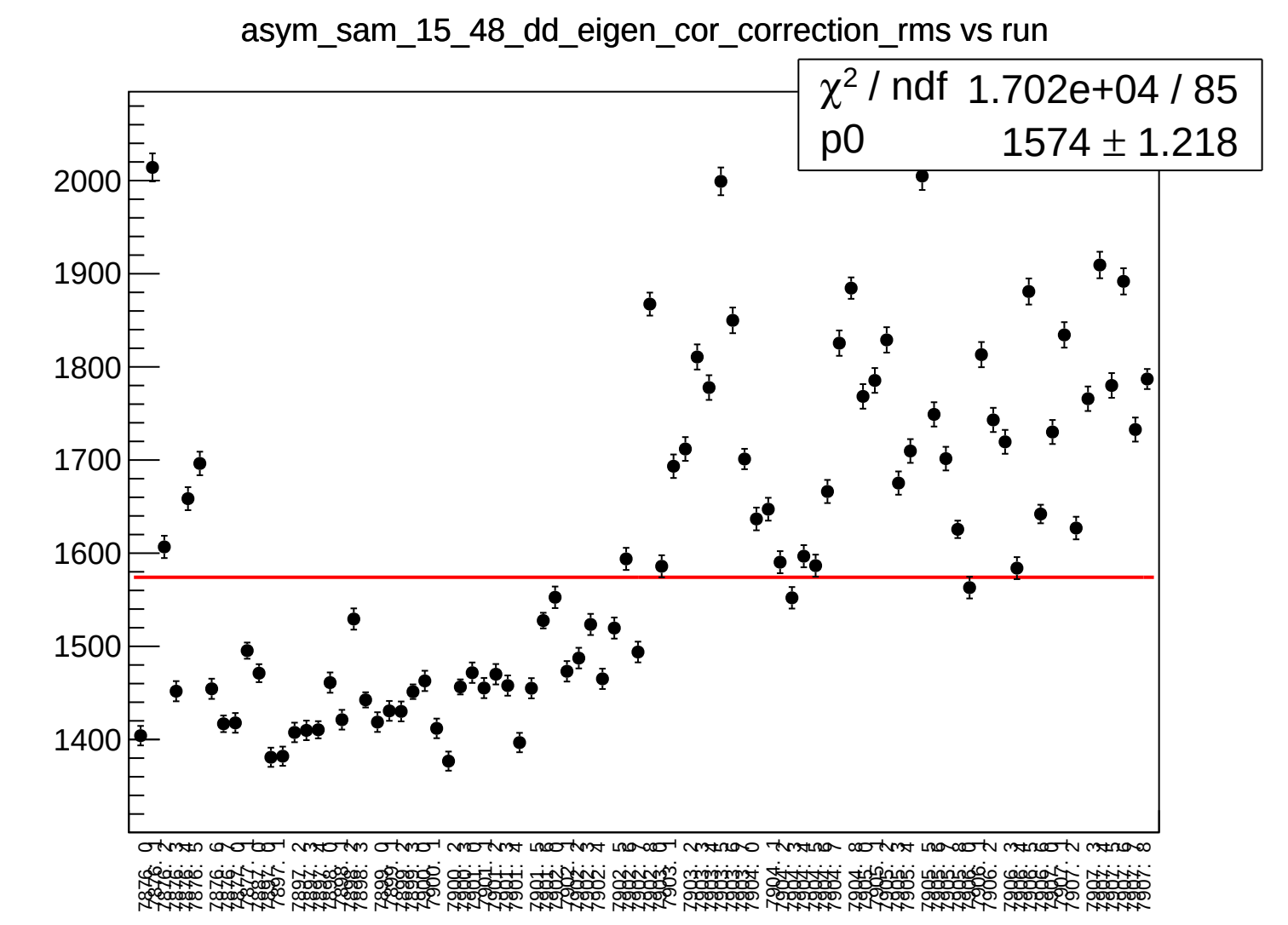

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 79.98 / 85
p0 59.97 ± 96.38
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −318.7
Std Dev 0
2
1
0
−1
−2

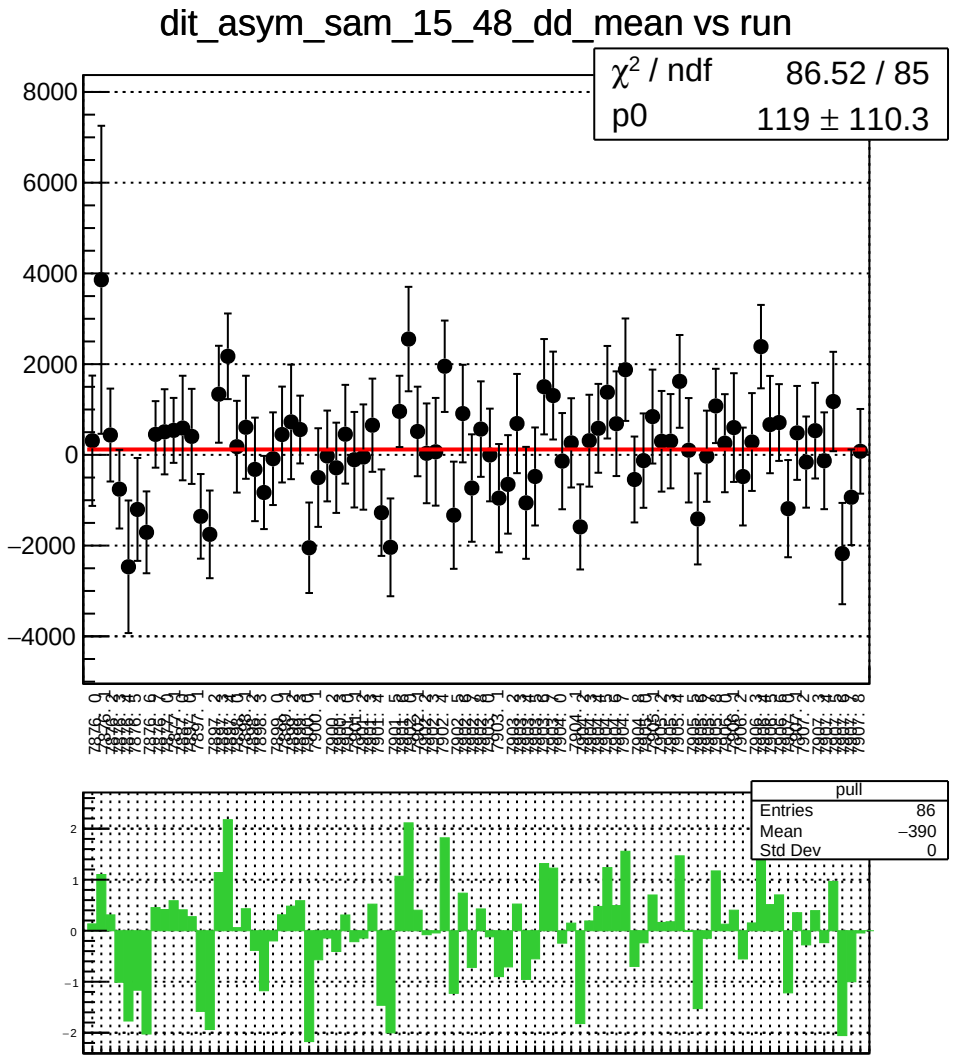

pull1D
Entries 86
Mean −0.009573
Std Dev 0.9643
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

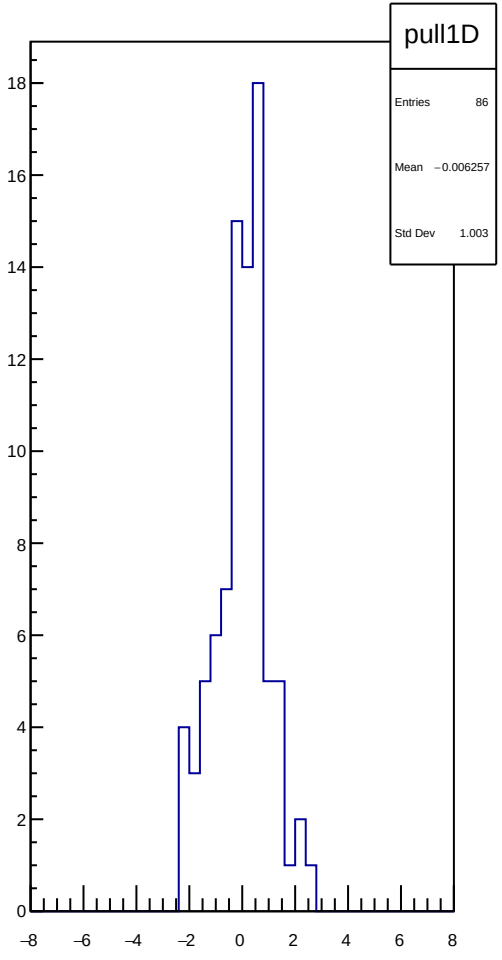

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2.079e+04 / 85
p0 87.99 ± 0.06815
280
260
240
220
200
180
160
140
120
100
80
60

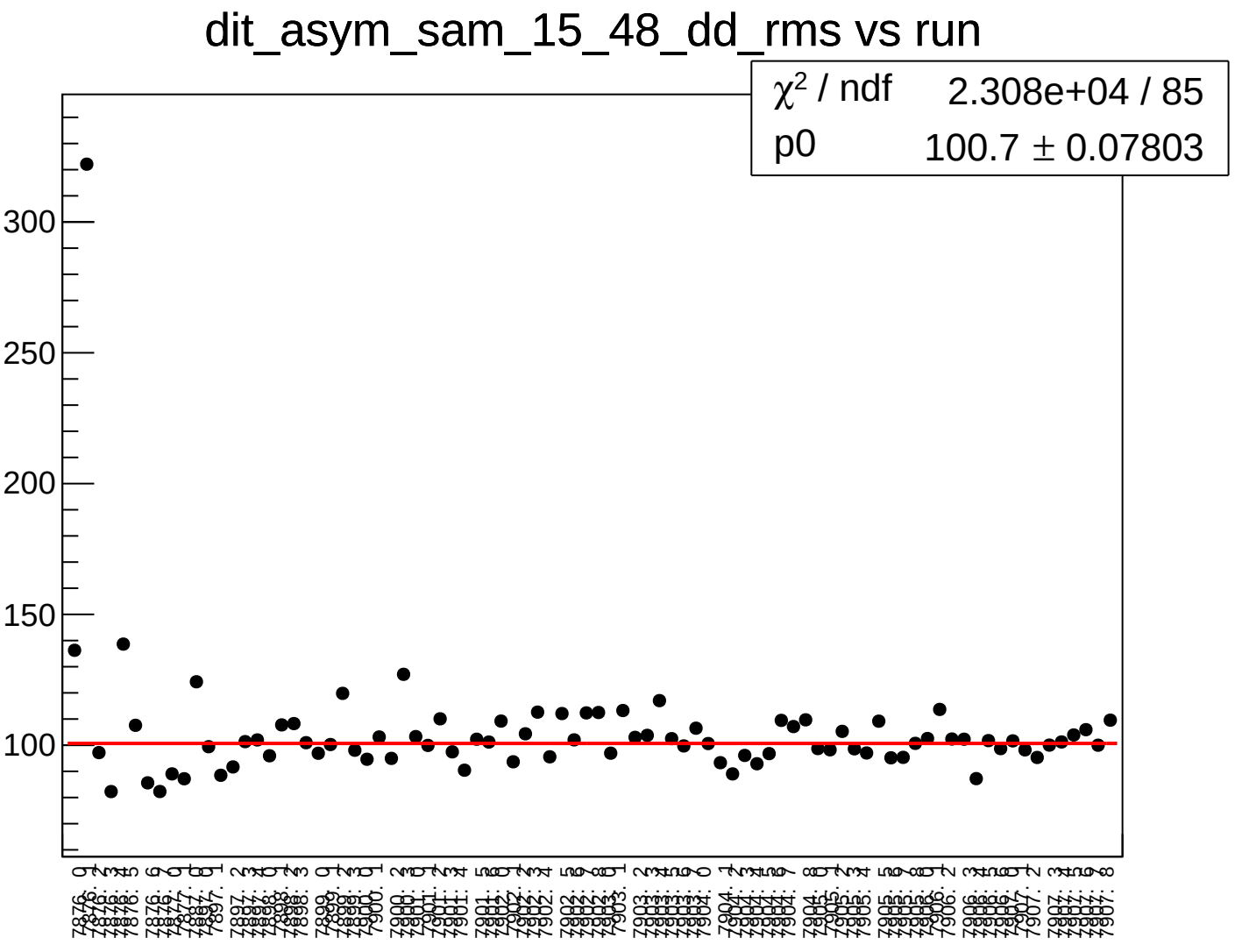

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.77 / 85
p0 2815 ± 1722
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −26.45
Std Dev 30.46
2
1
0
−1
−2
−3

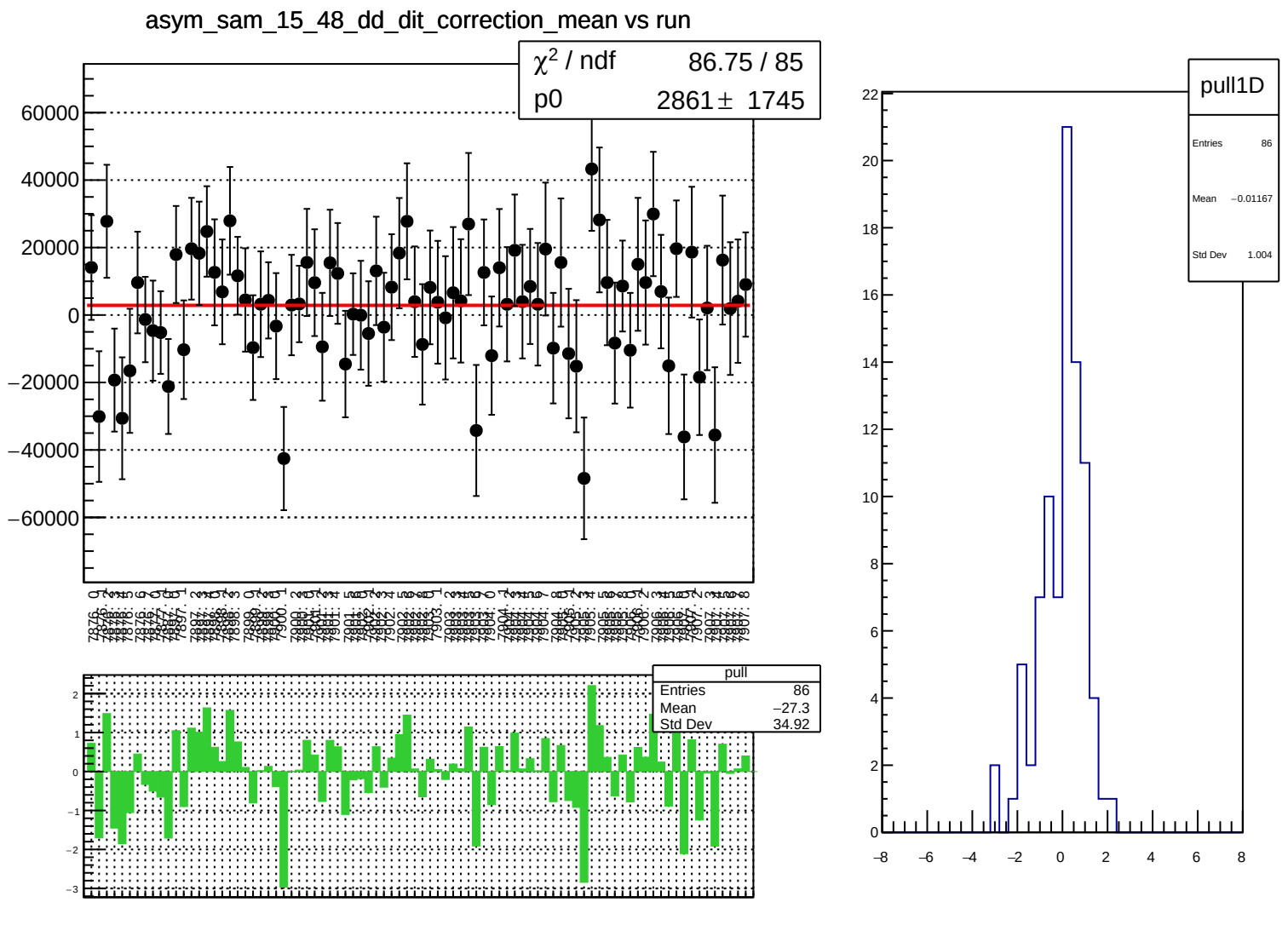

pull1D
Entries 86
Mean −0.01245
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

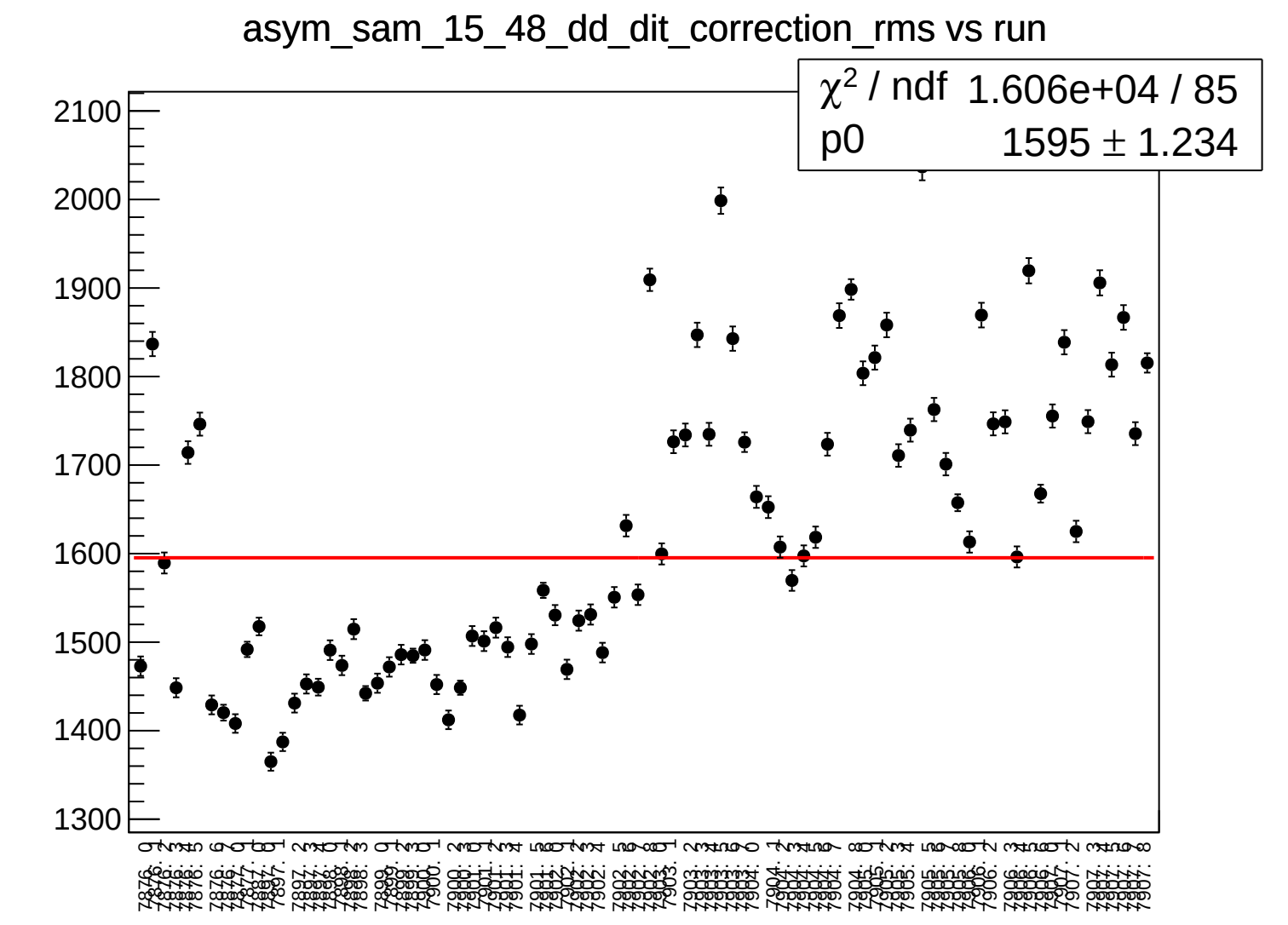

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.702e+04 / 85
p0 1574 ± 1.218
2000
1900
1800
1700
1600
1500
1400

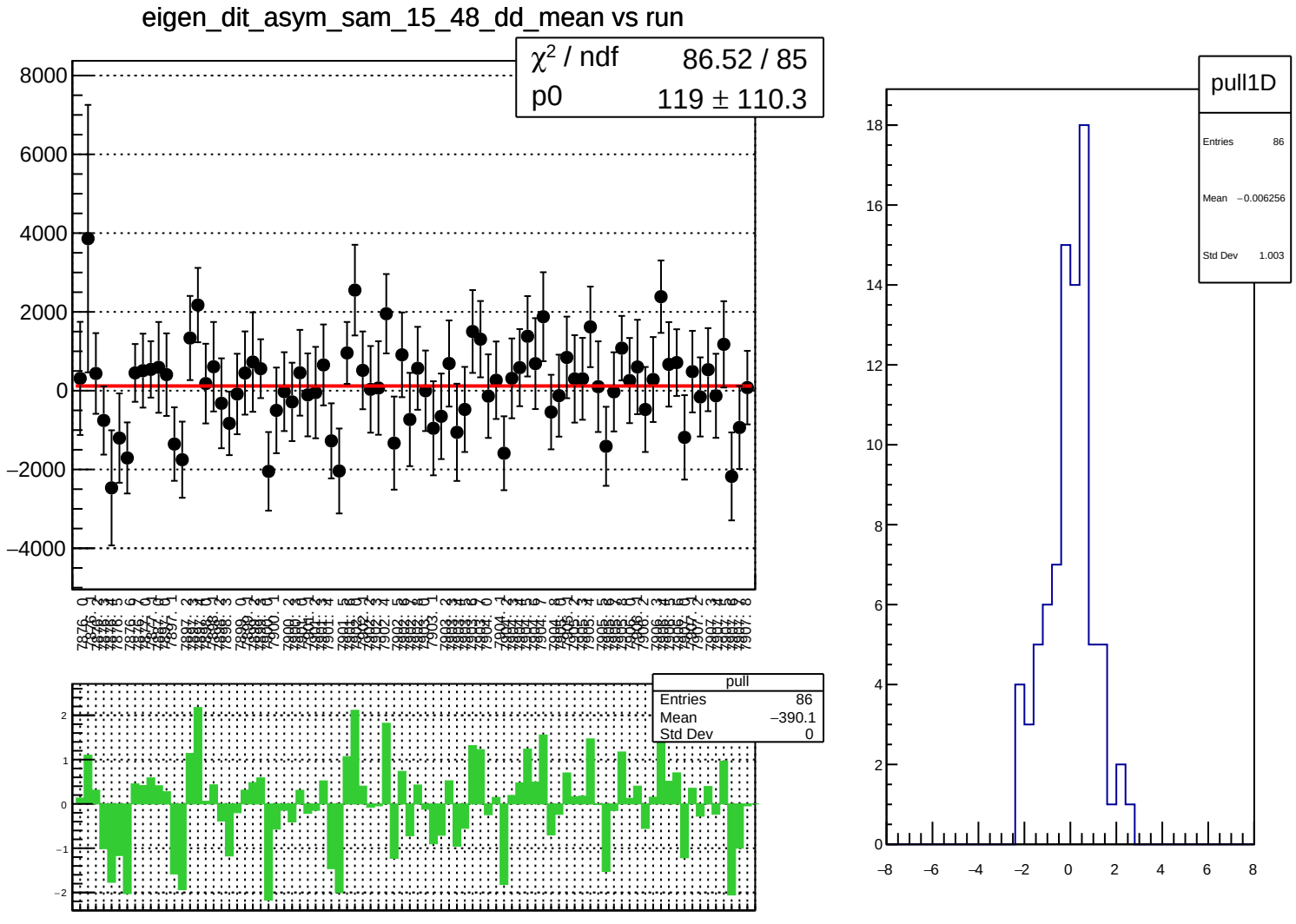

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 86.52 / 85
p0 119 ± 110.3
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −390
Std Dev 0
2
1
0
−1
−2

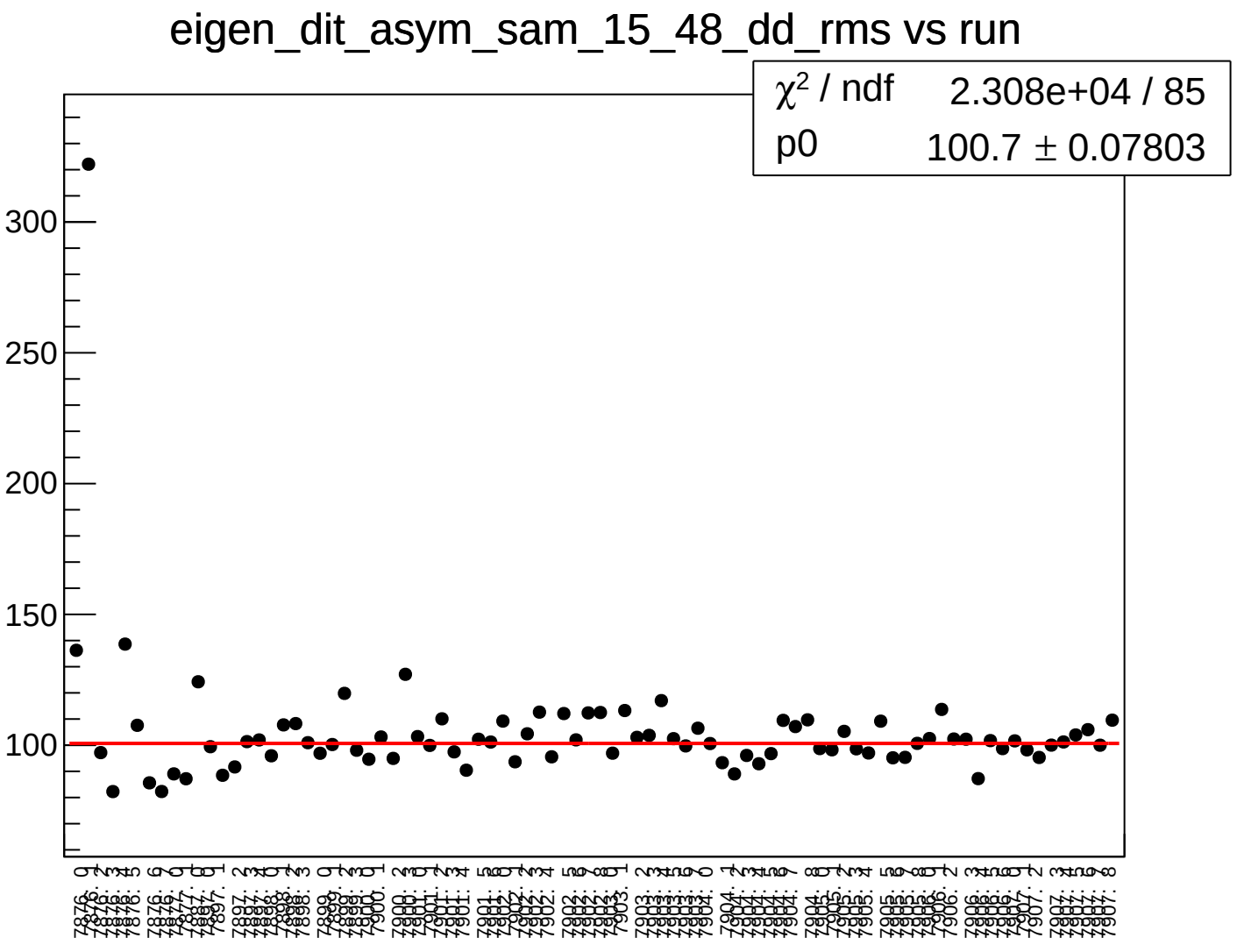

pull1D
Entries 86
Mean −0.006257
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

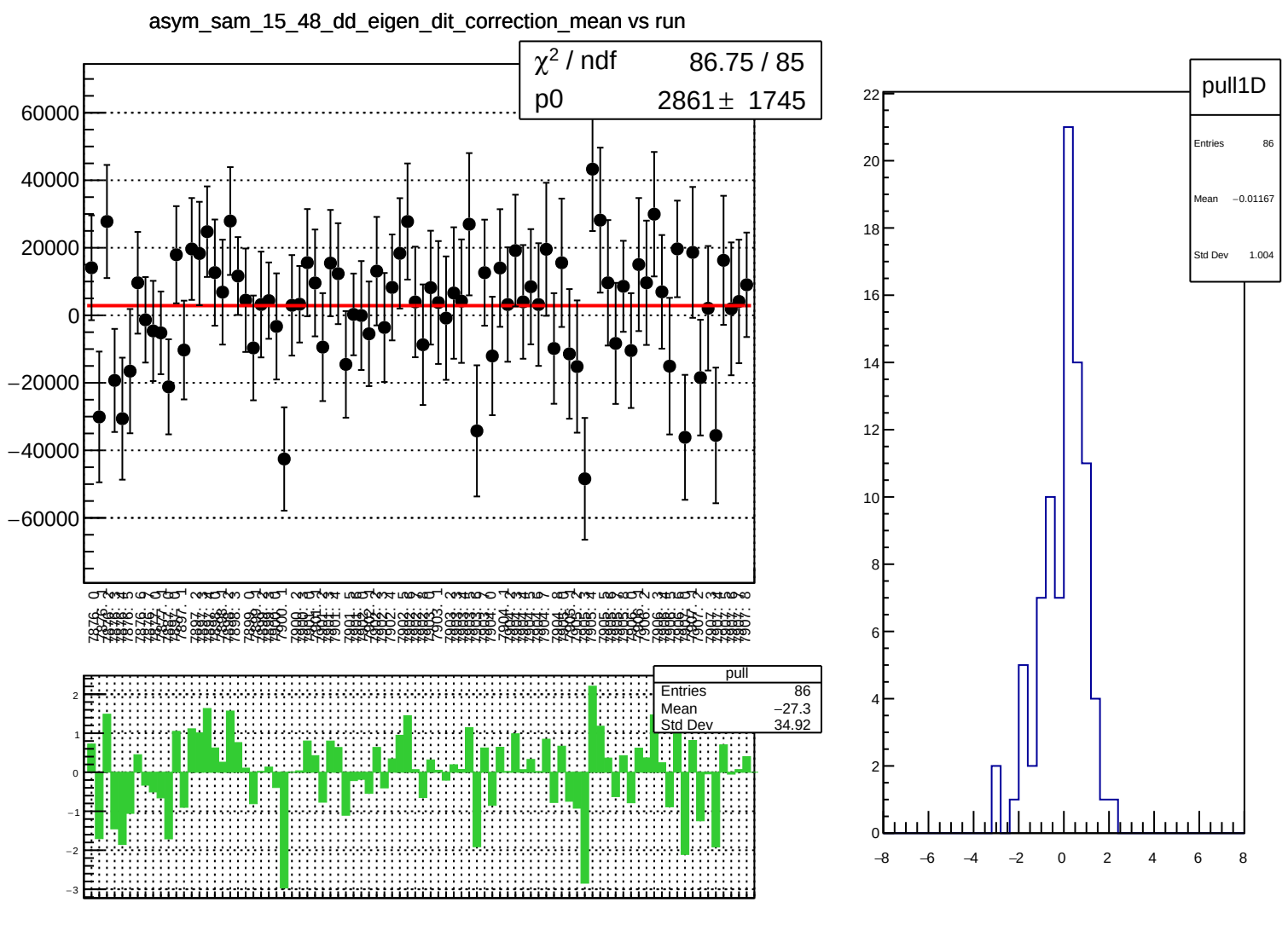

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2.308e+04 / 85
p0 100.7 ± 0.07803
300
250
200
150
100

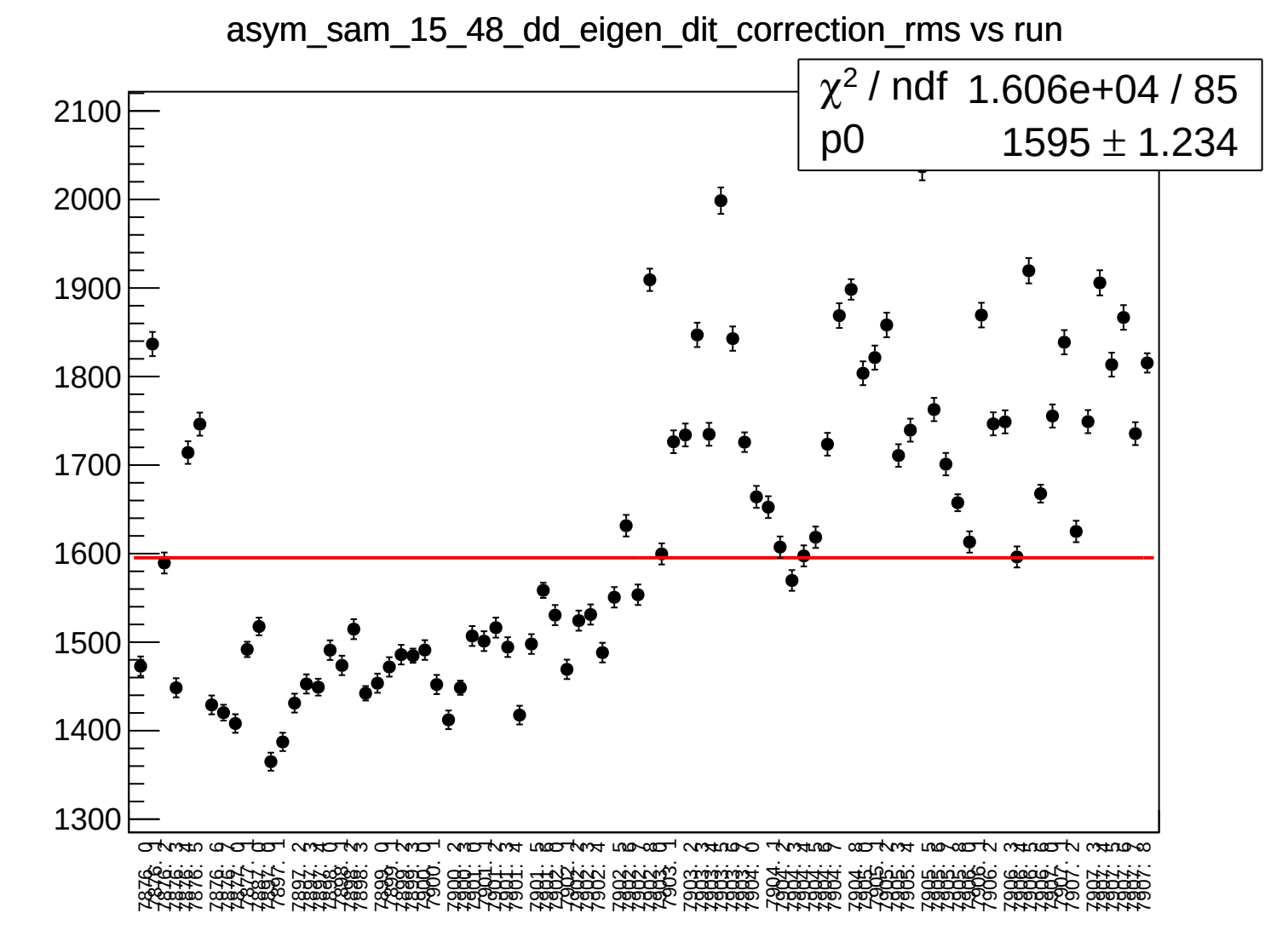

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 86.75 / 85
p0 2861 ± 1745
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −27.3
Std Dev 34.92
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01167
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

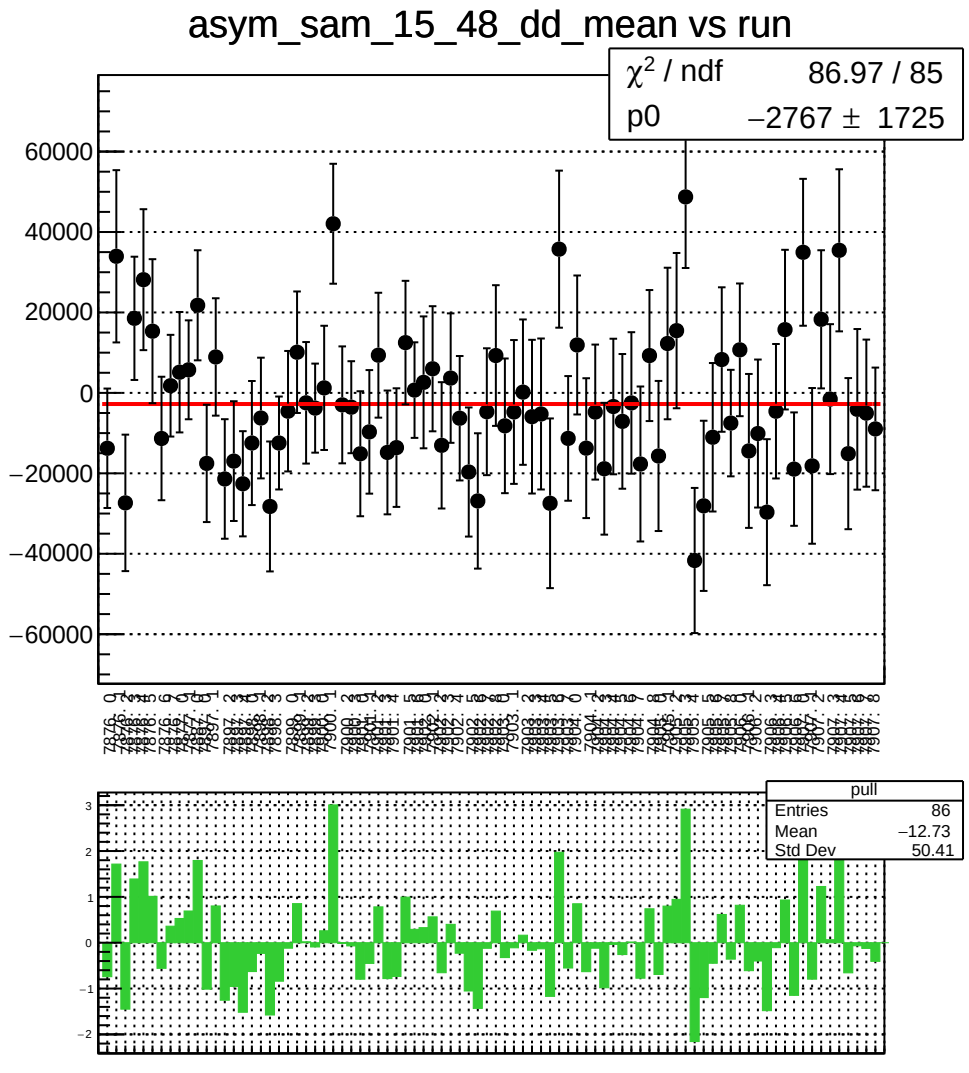

asym_sam_15_48_dd_dit_correction_rms vs run
χ^2 / ndf 1.606e+04 / 85
p0 1595 ± 1.234
2100
2000
1900
1800
1700
1600
1500
1400
1300

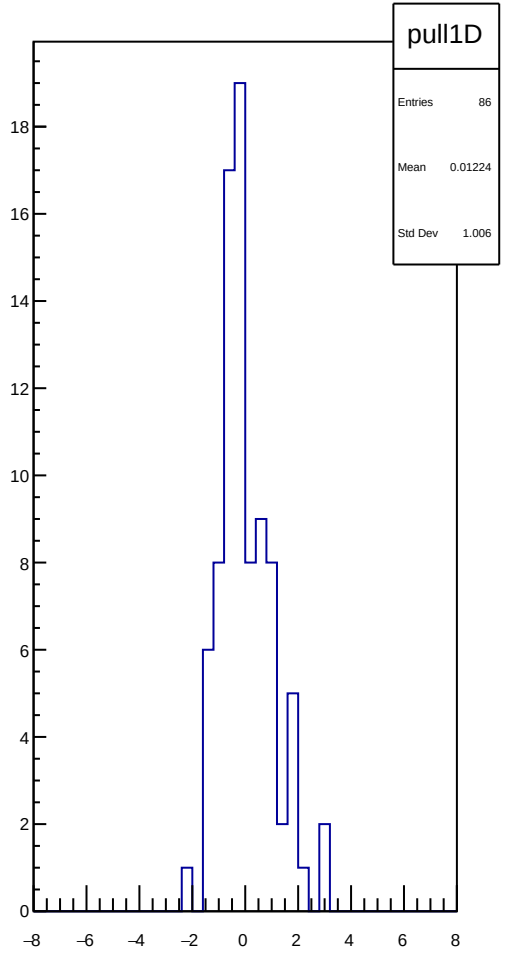

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 86.52 / 85
p0 119 ± 110.3
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −390.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.006256
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.308e+04 / 85
p0 100.7 ± 0.07803
300
250
200
150
100

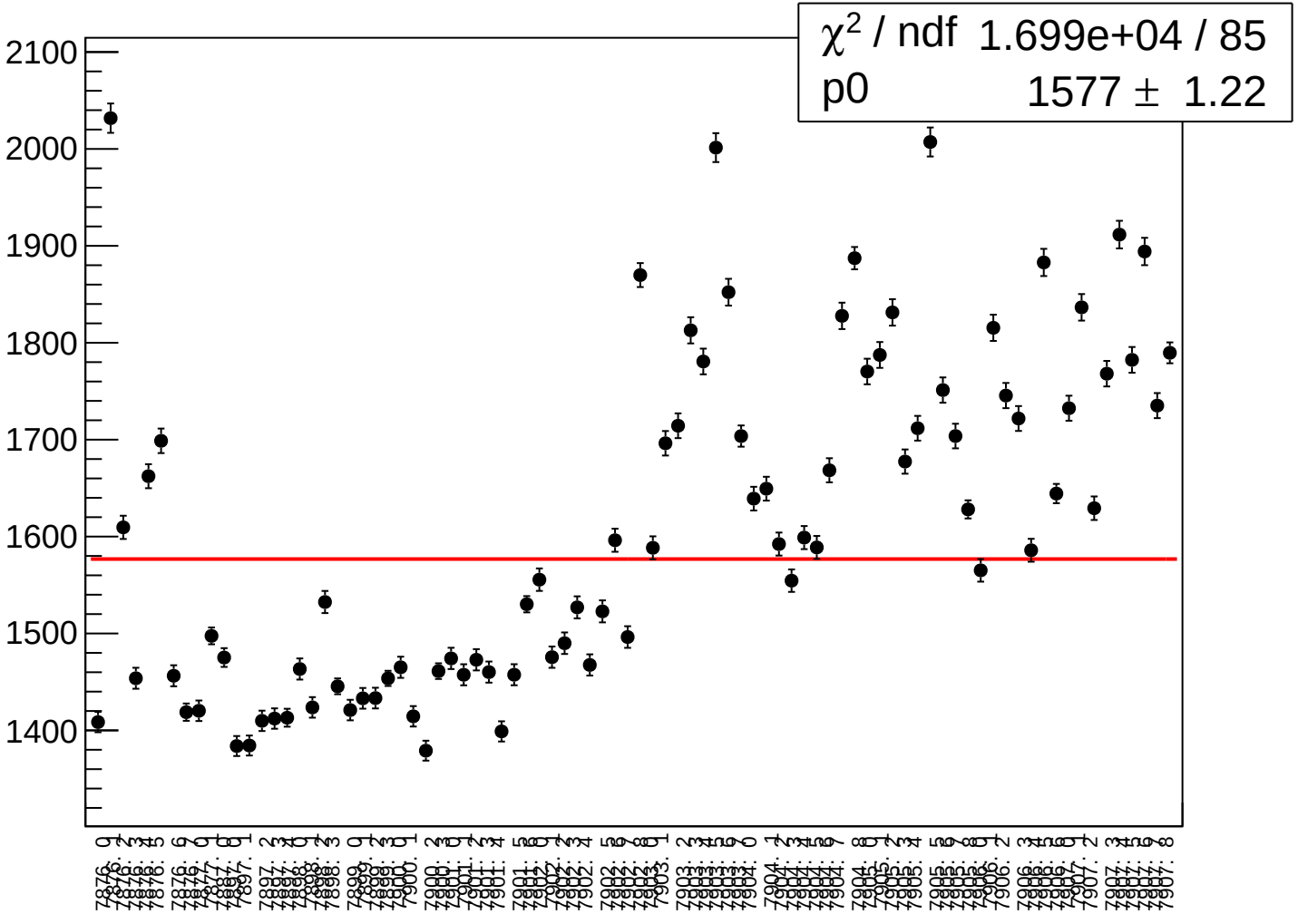

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.75 / 85
p0 2861 ± 1745
pull
Entries 86
Mean −27.3
Std Dev 34.92
pull1D
Entries 86
Mean −0.01167
Std Dev 1.004

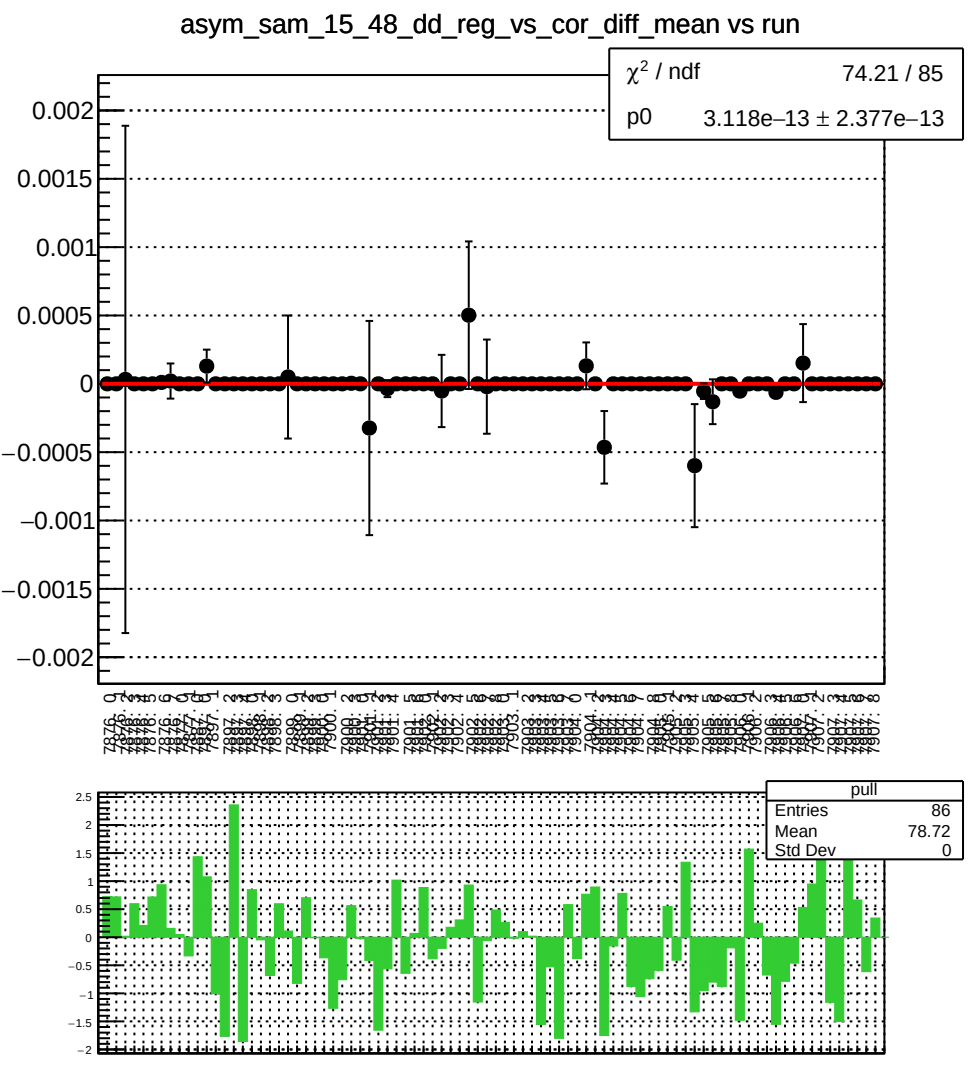

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.606e+04 / 85
p0 1595 ± 1.234
2100
2000
1900
1800
1700
1600
1500
1400
1300

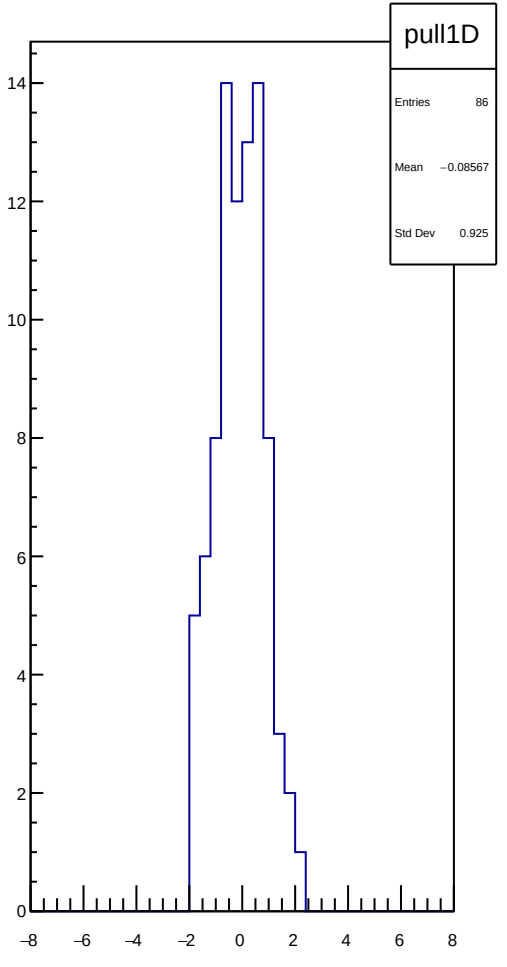

asym_sam_15_48_dd_mean vs run
χ² / ndf 86.97 / 85
p0 −2767 ± 1725
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −12.73
Std Dev 50.41
3
2
1
0
−1
−2

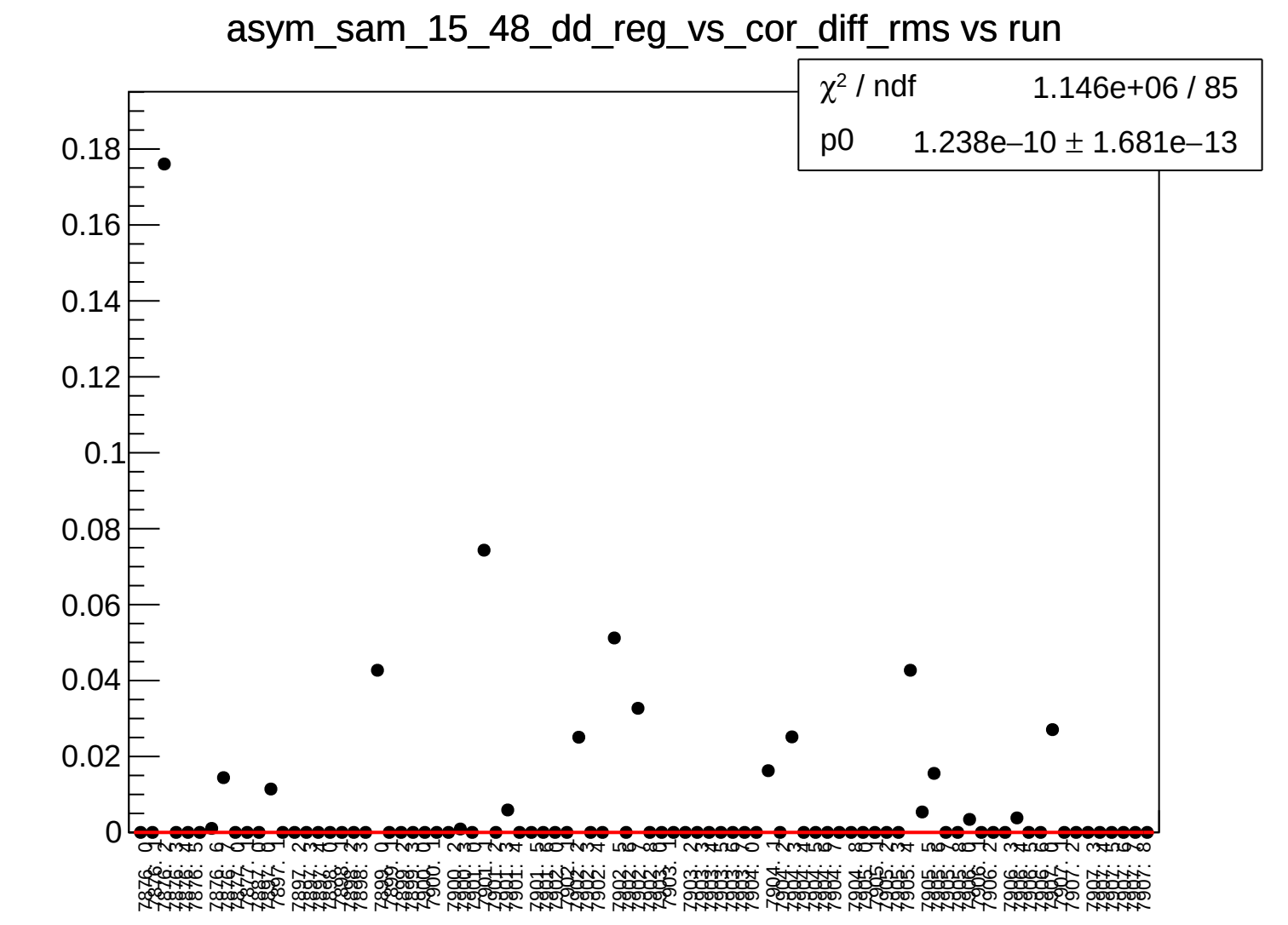

pull1D
Entries 86
Mean 0.01224
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

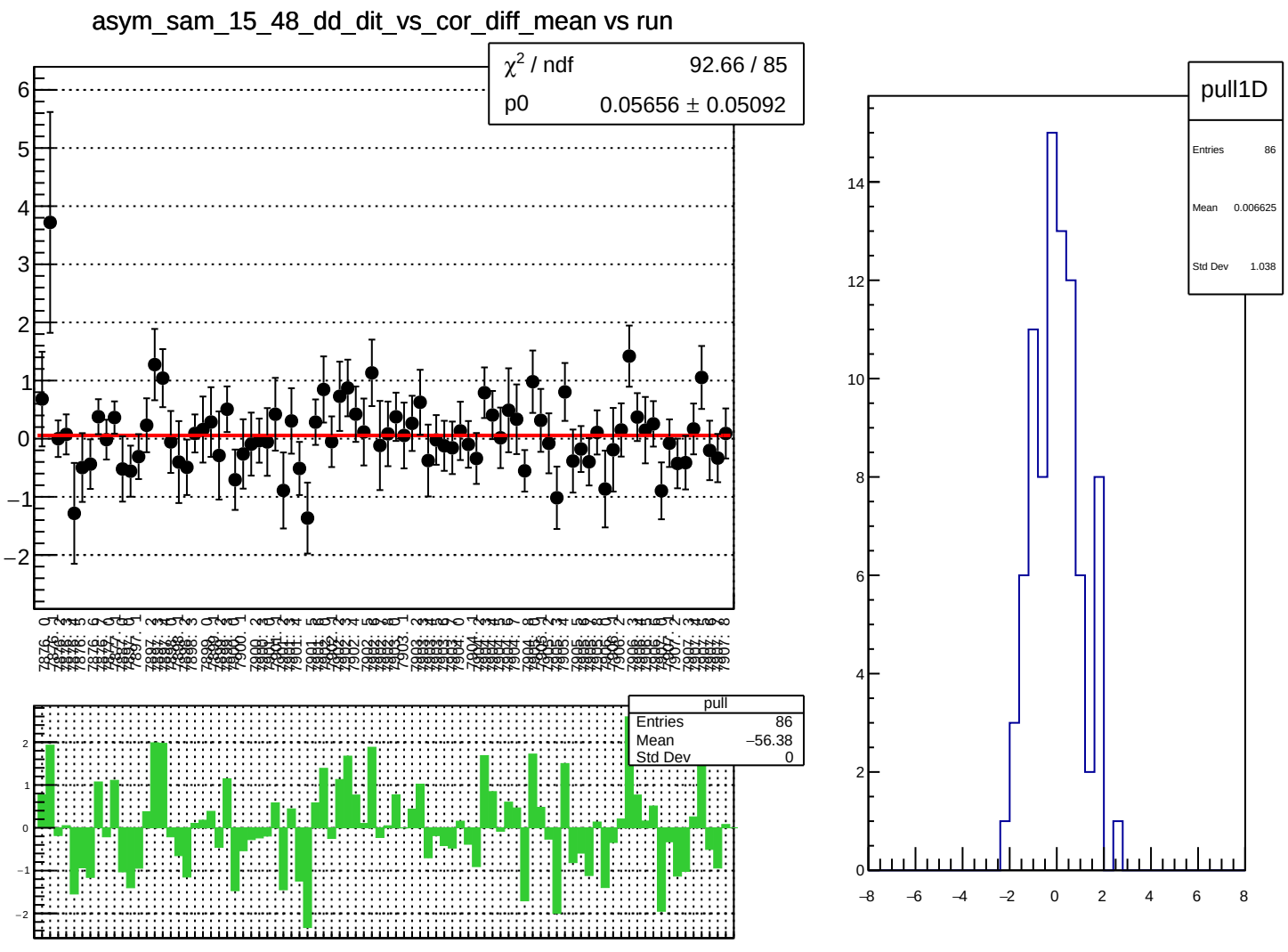
asym_sam_15_48_dd_rms vs run

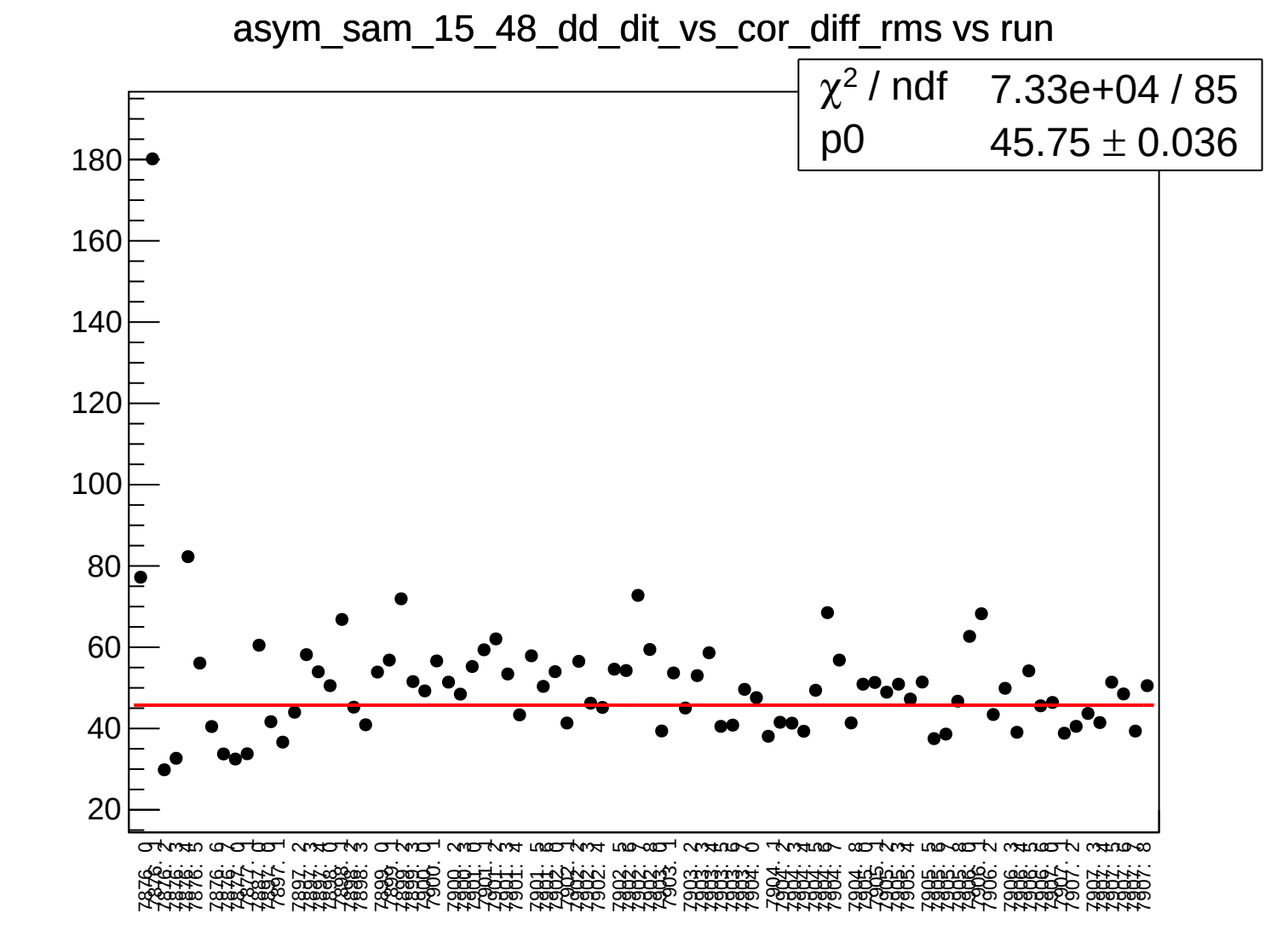


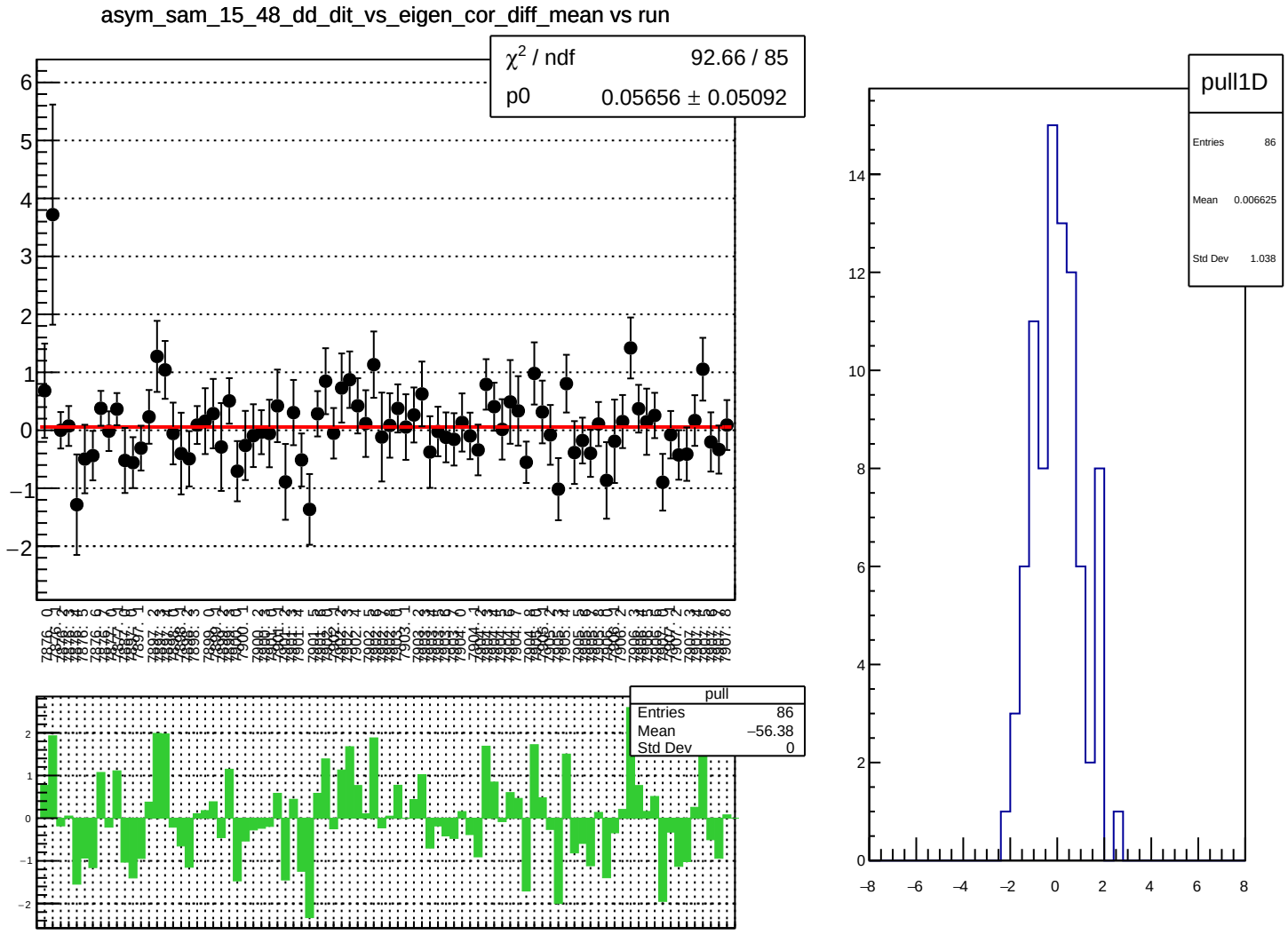

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.21 / 85
p0 3.118e−13 ± 2.377e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 86
Mean 78.72
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

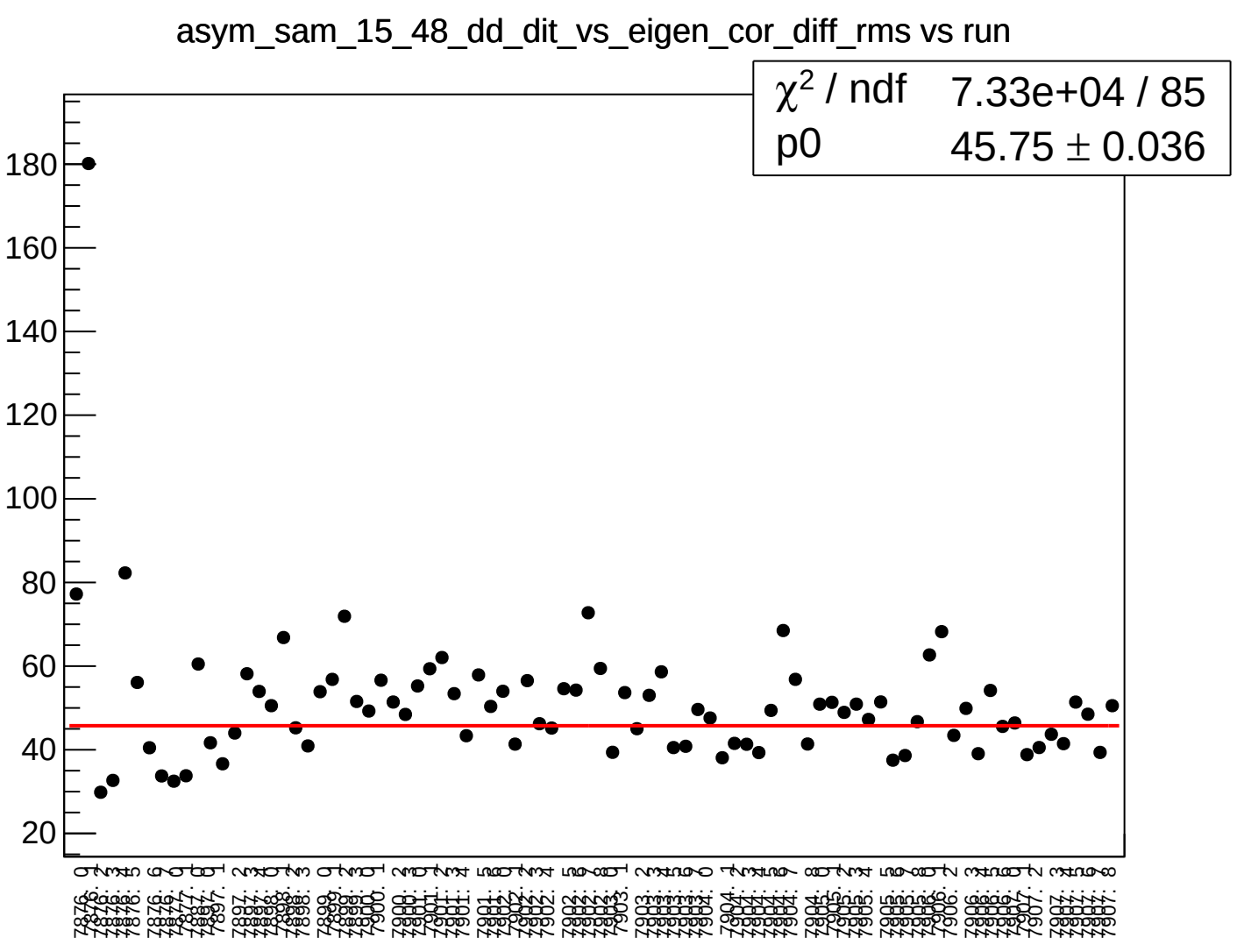

pull1D
Entries 86
Mean −0.08567
Std Dev 0.925
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

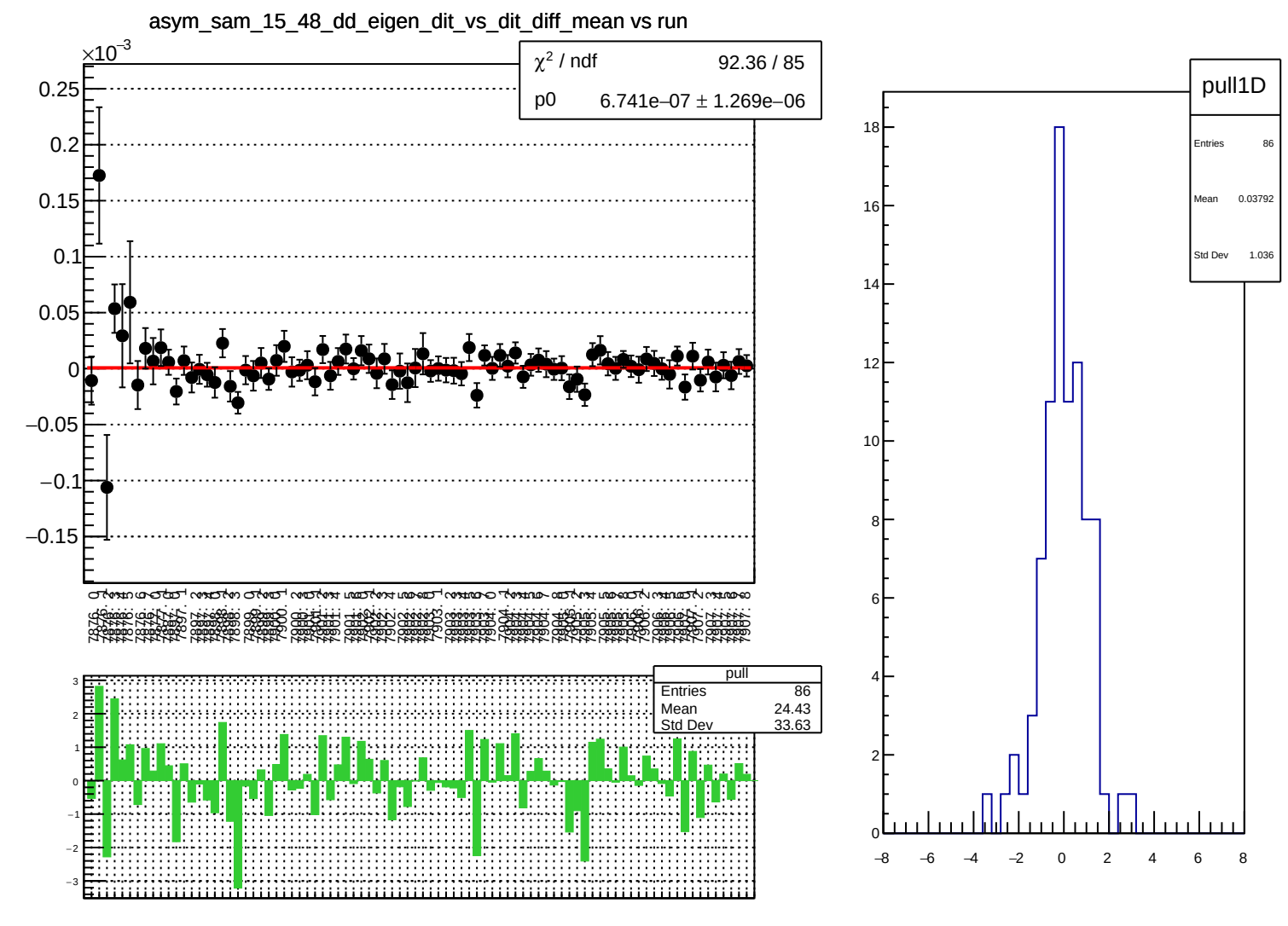

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.146e+06 / 85
p0 1.238e−10 ± 1.681e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

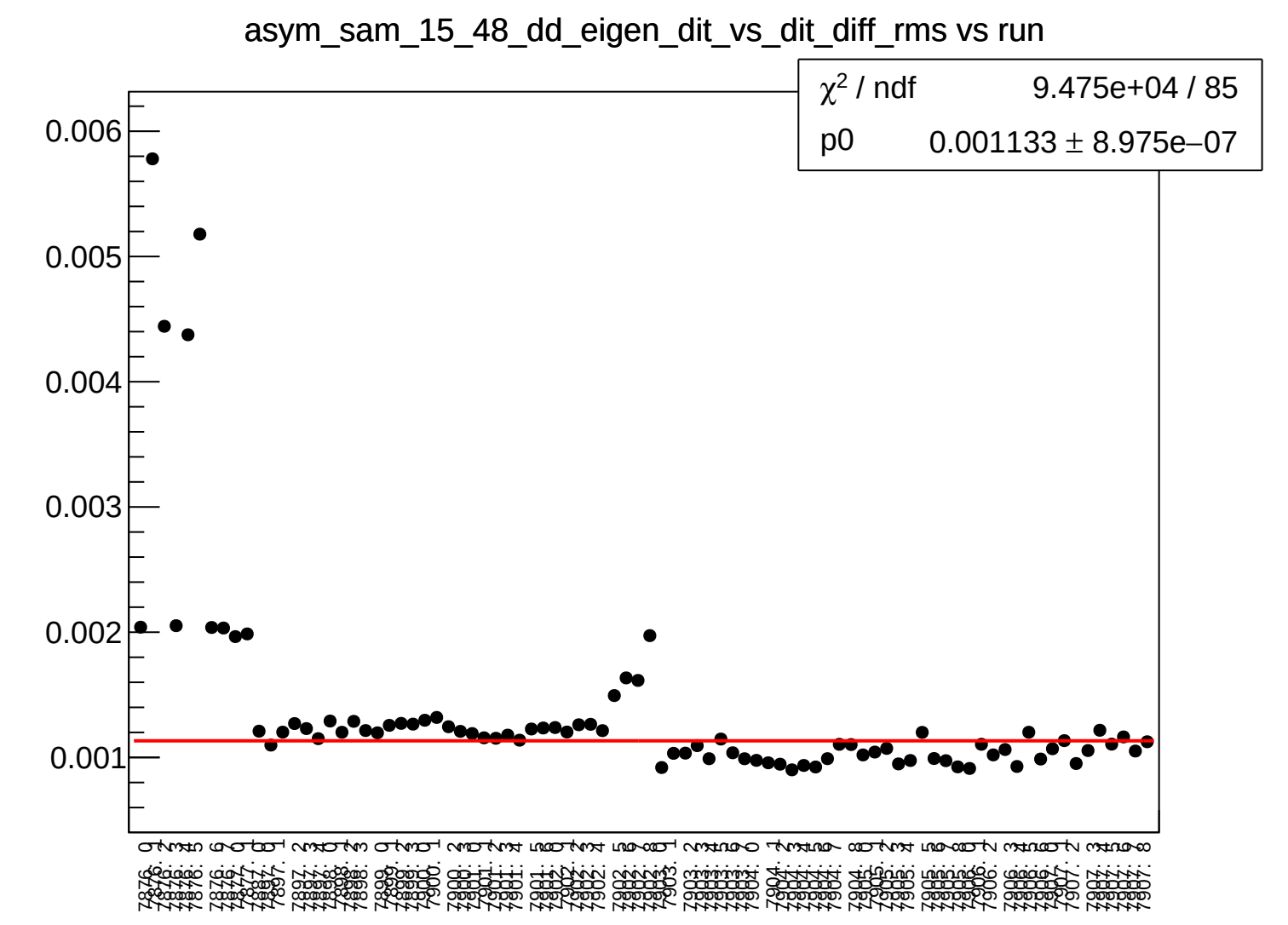

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.66 / 85
p0 0.05656 ± 0.05092
pull
Entries 86
Mean −56.38
Std Dev 0
pull1D
Entries 86
Mean 0.006625
Std Dev 1.038

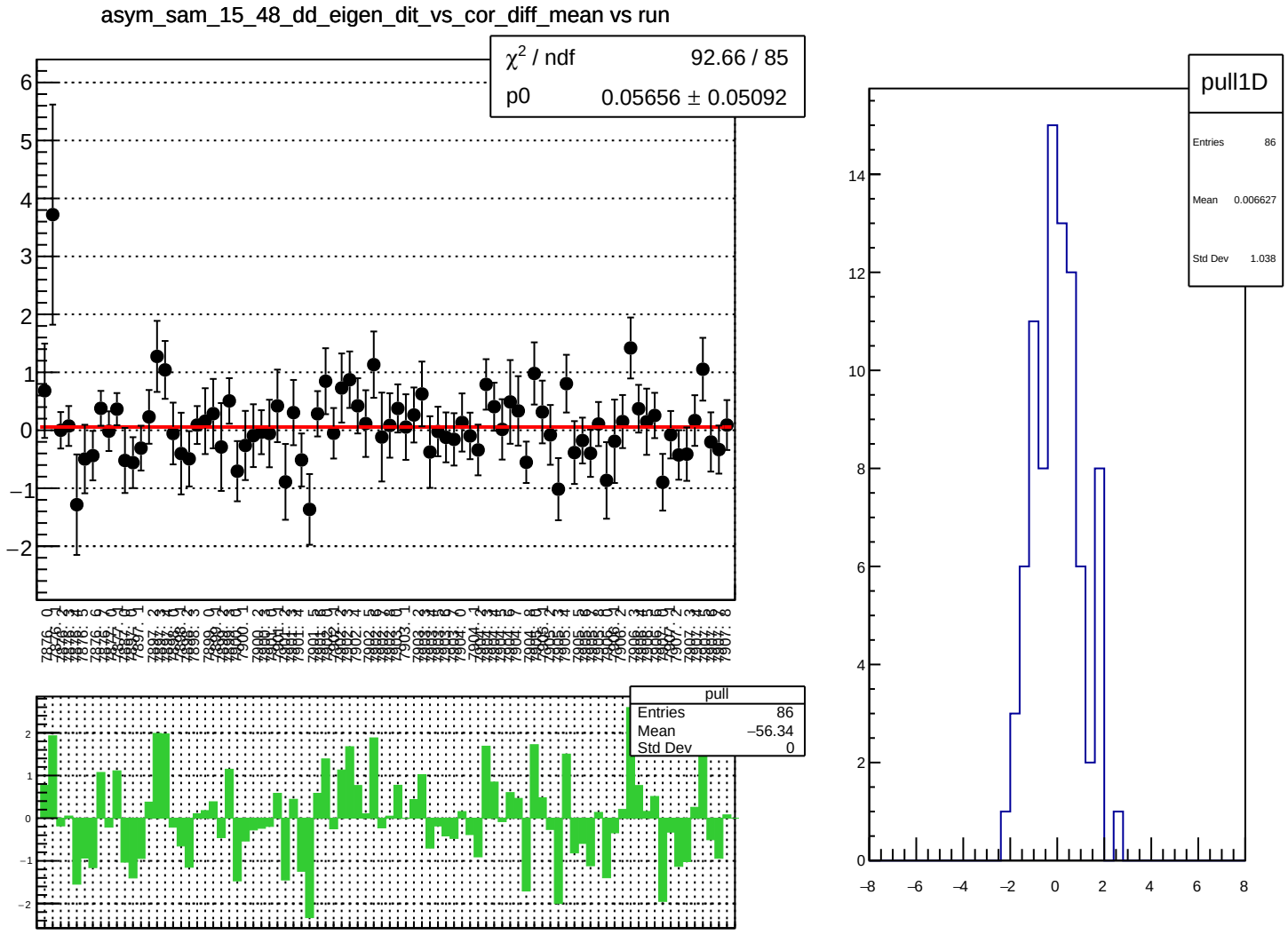

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.33e+04 / 85
p0 45.75 ± 0.036
180
160
140
120
100
80
60
40
20

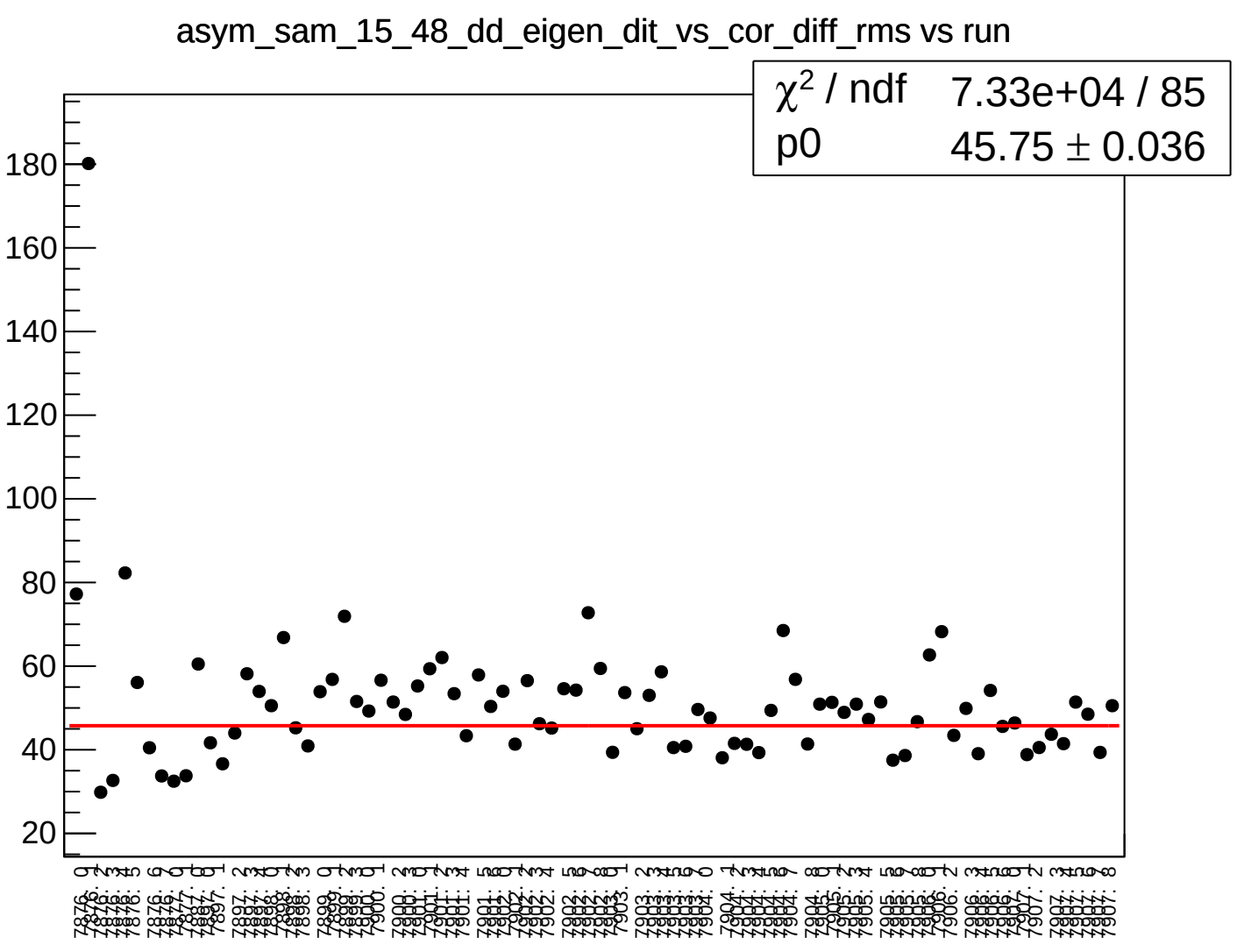

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.66 / 85
p0 0.05656 ± 0.05092
pull
Entries 86
Mean −56.38
Std Dev 0
pull1D
Entries 86
Mean 0.006625
Std Dev 1.038

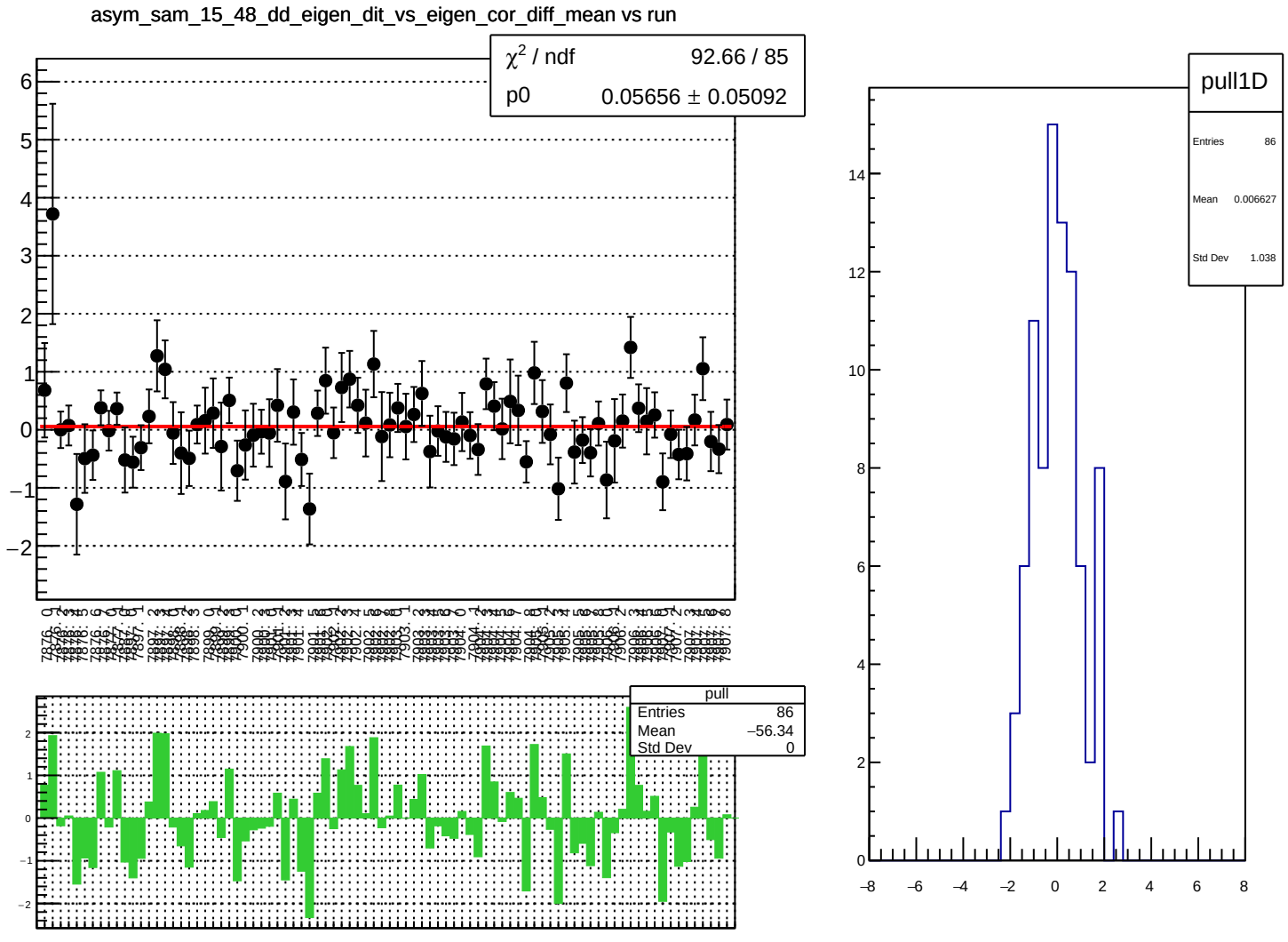

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.33e+04 / 85
p0 45.75 ± 0.036
180
160
140
120
100
80
60
40
20

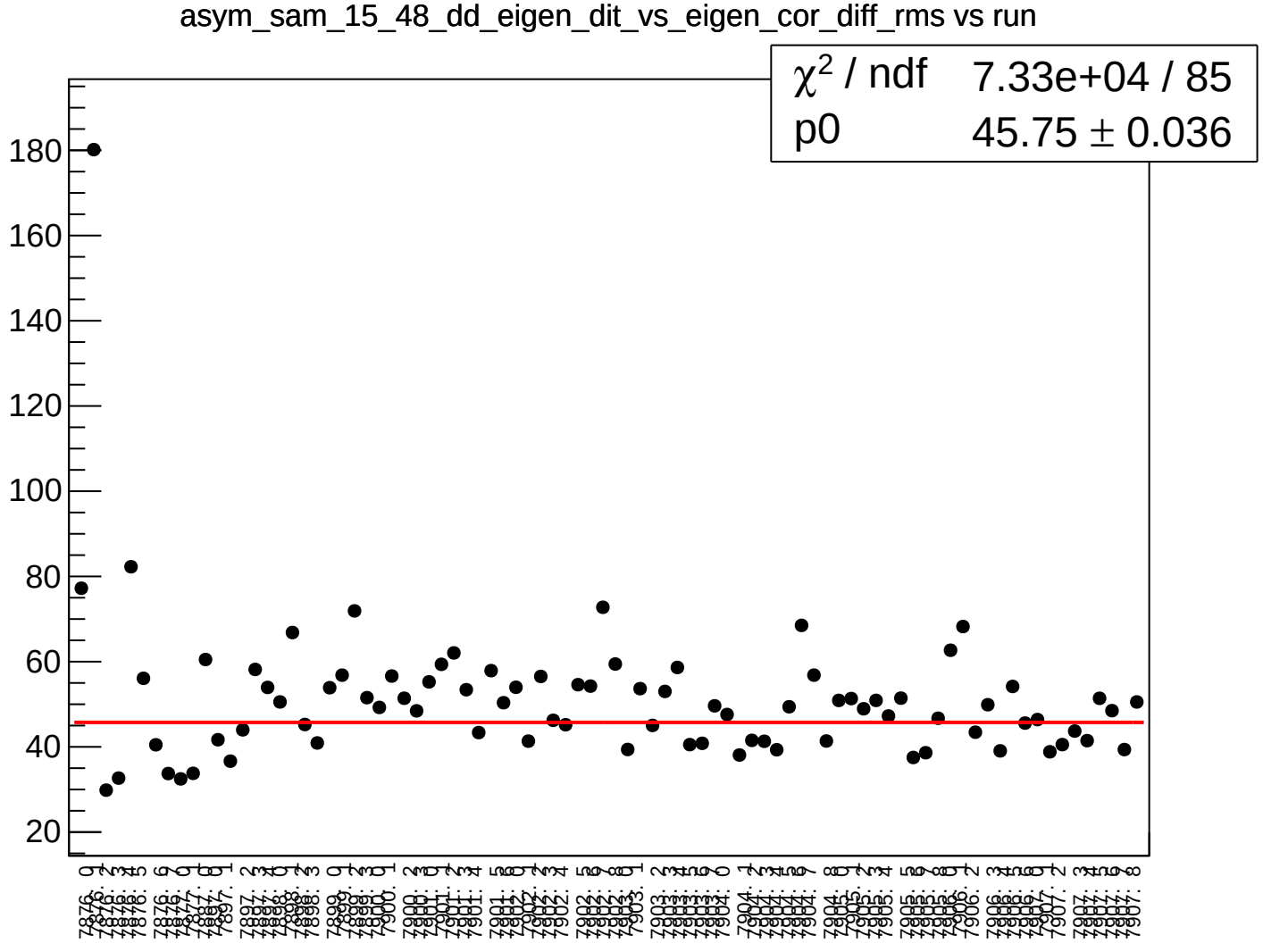

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.36 / 85
p0 6.741e−07 ± 1.269e−06
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 24.43
Std Dev 33.63
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.03792
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

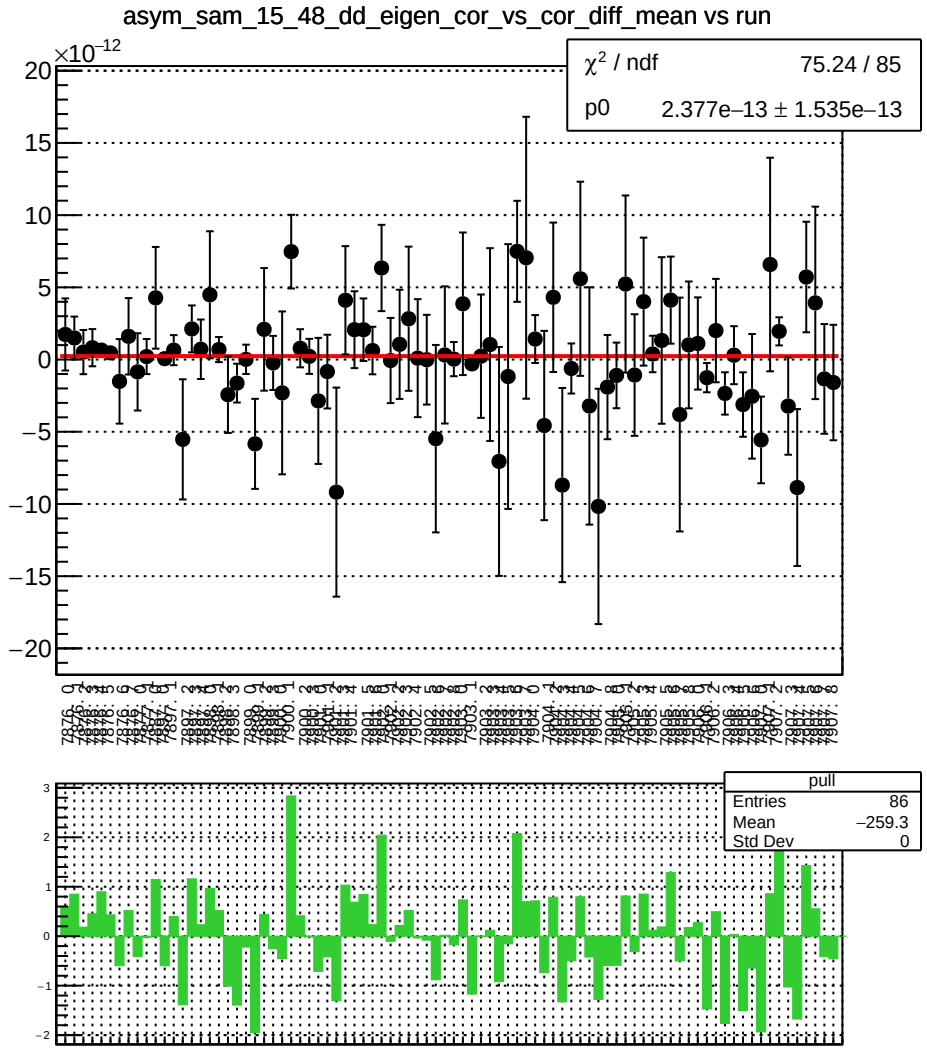

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.475e+04 / 85
p0 0.001133 ± 8.975e−07
0.006
0.005
0.004
0.003
0.002
0.001

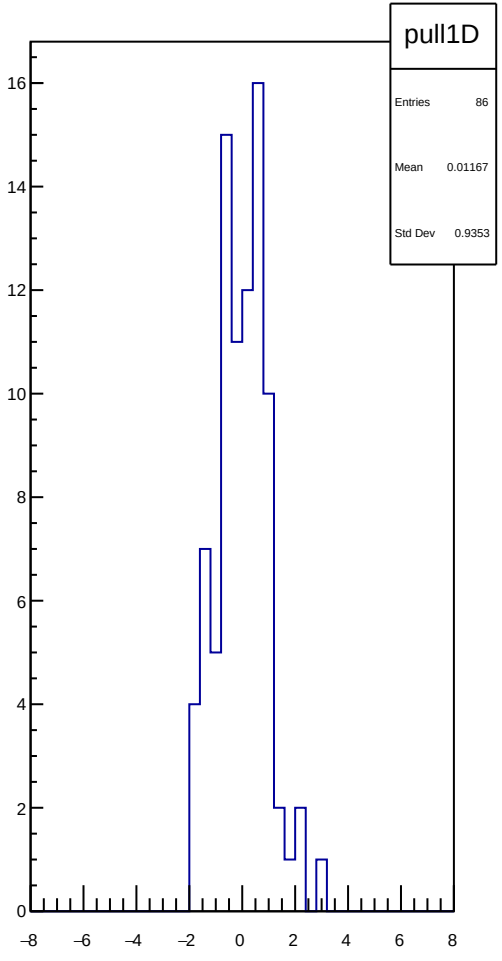

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.66 / 85
p0 0.05656 ± 0.05092
pull
Entries 86
Mean −56.34
Std Dev 0
pull1D
Entries 86
Mean 0.006627
Std Dev 1.038

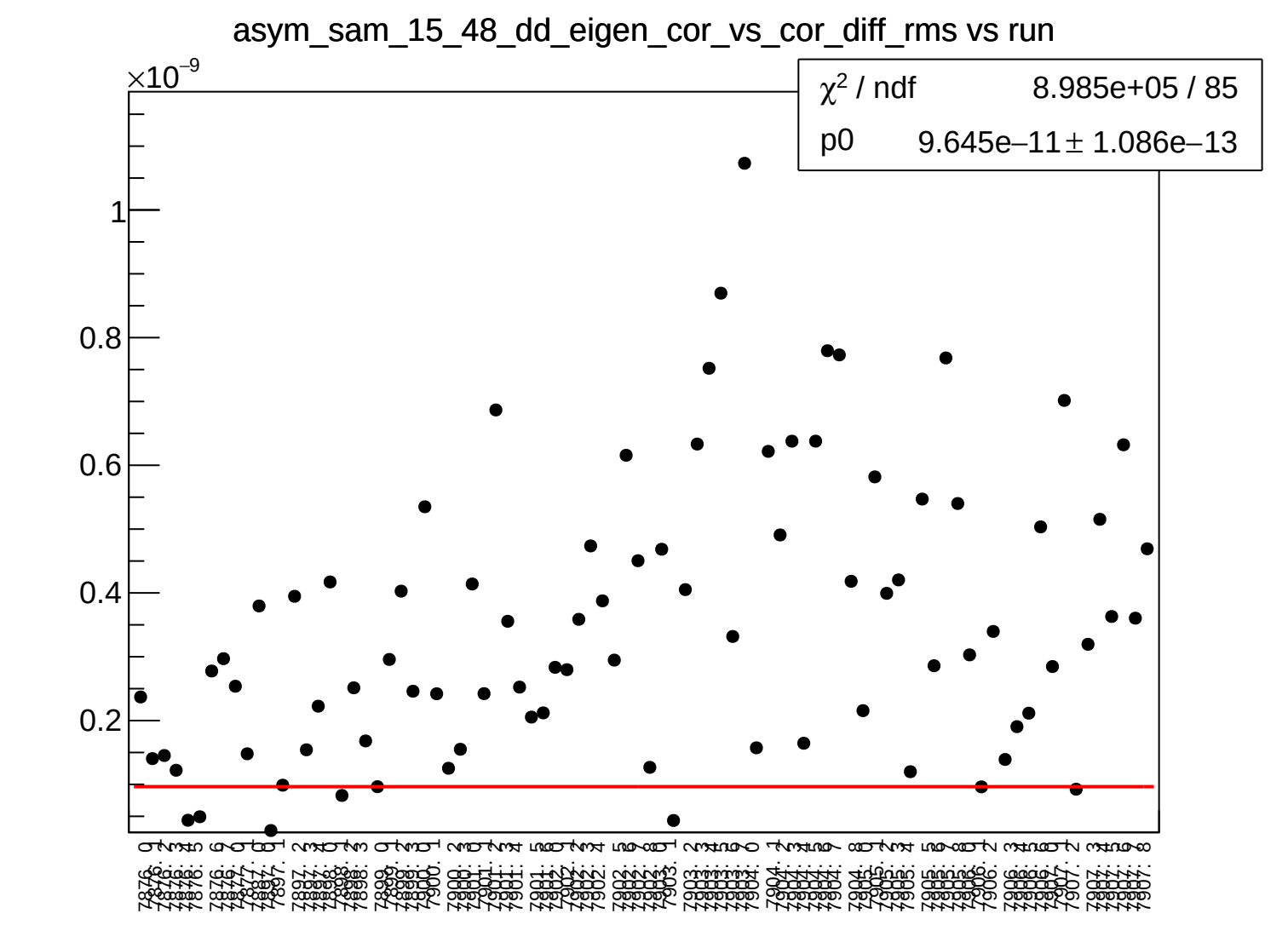

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.33e+04 / 85
p0 45.75 ± 0.036
180
160
140
120
100
80
60
40
20

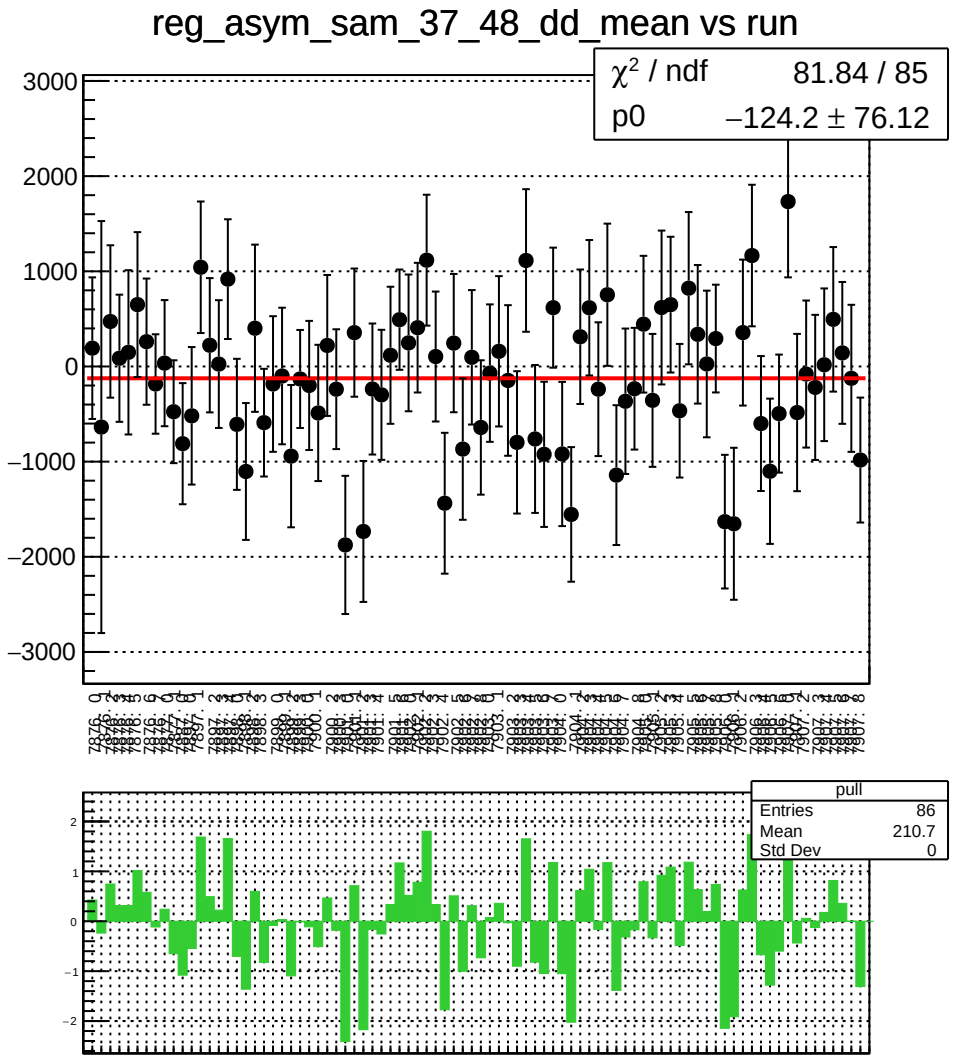

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.66 / 85
p0 0.05656 ± 0.05092
pull
Entries 86
Mean −56.34
Std Dev 0
pull1D
Entries 86
Mean 0.006627
Std Dev 1.038

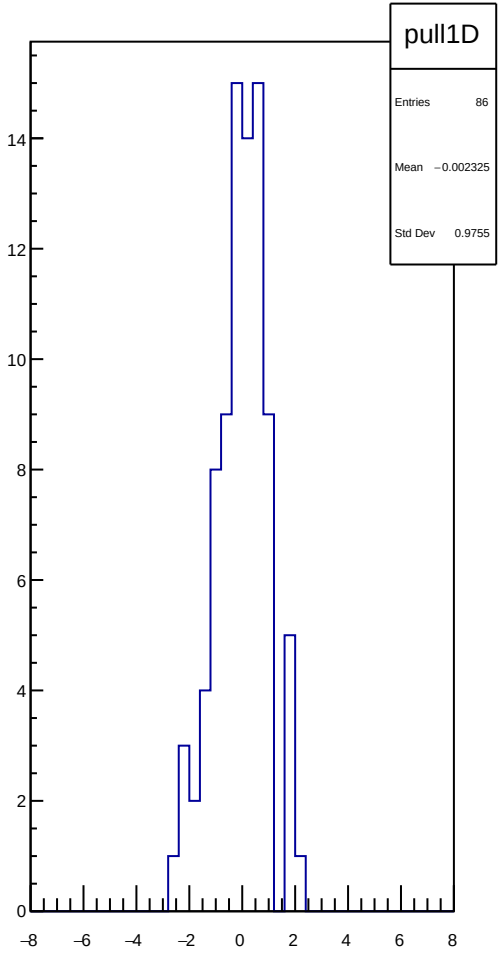

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.33e+04 / 85
p0 45.75 ± 0.036
180
160
140
120
100
80
60
40
20

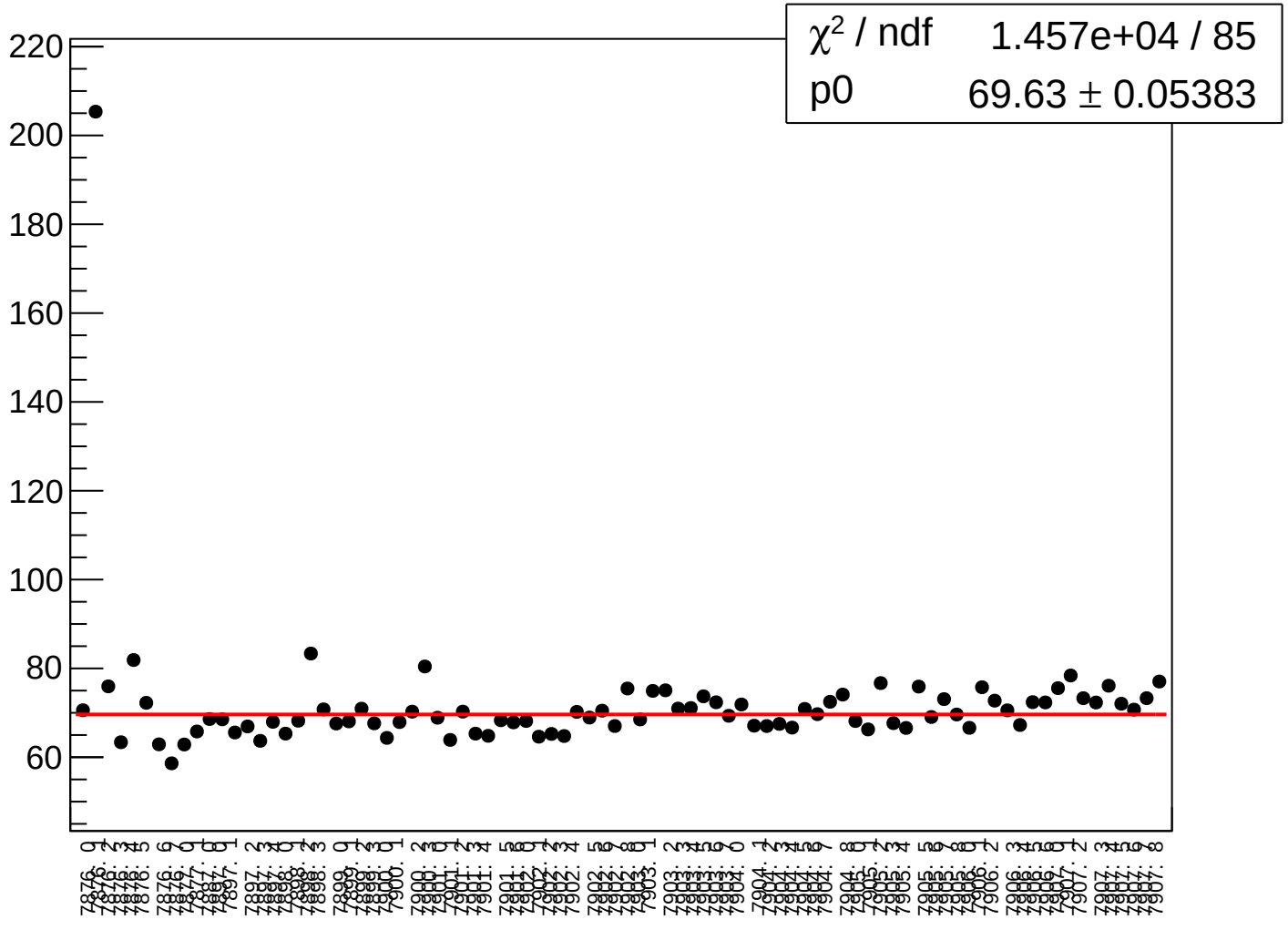

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.24 / 85
p0 2.377e−13 ± 1.535e−13
pull
Entries 86
Mean −259.3
Std Dev 0

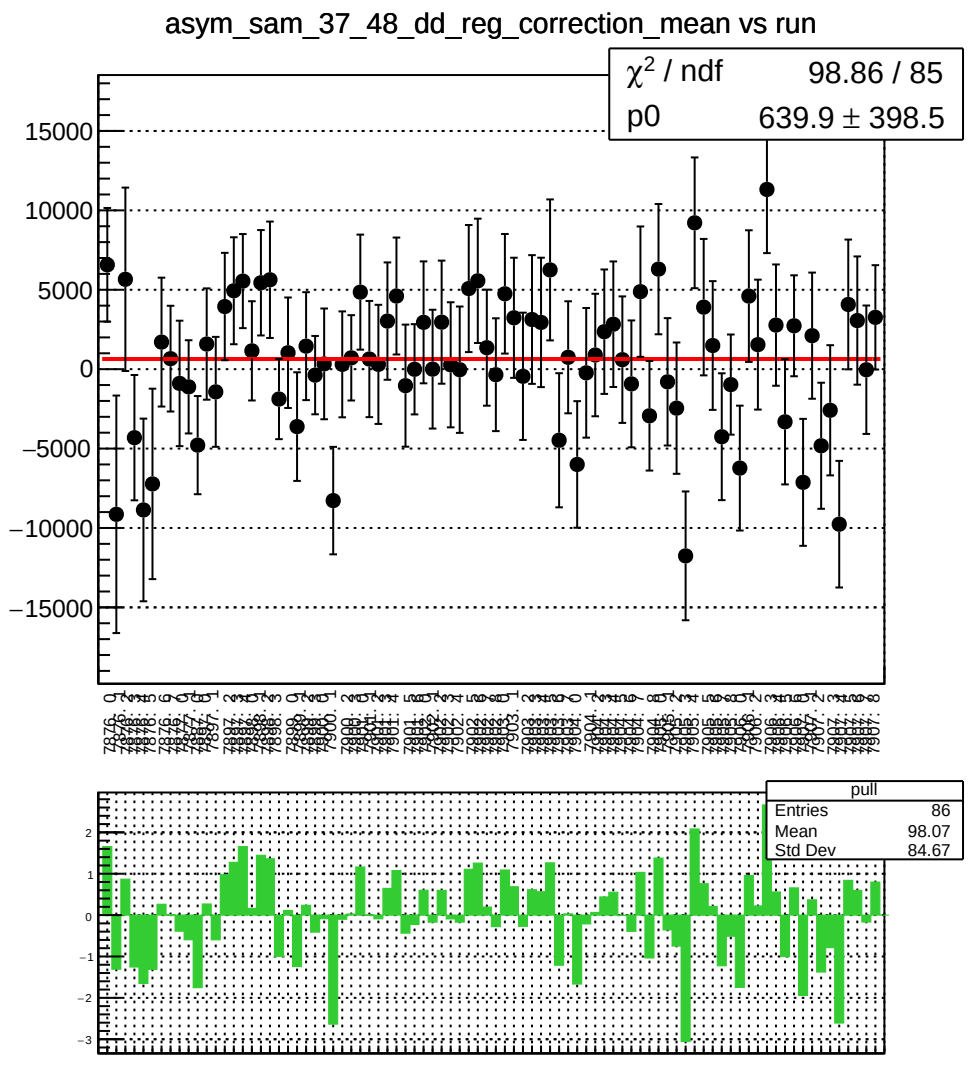

pull1D
Entries 86
Mean 0.01167
Std Dev 0.9353

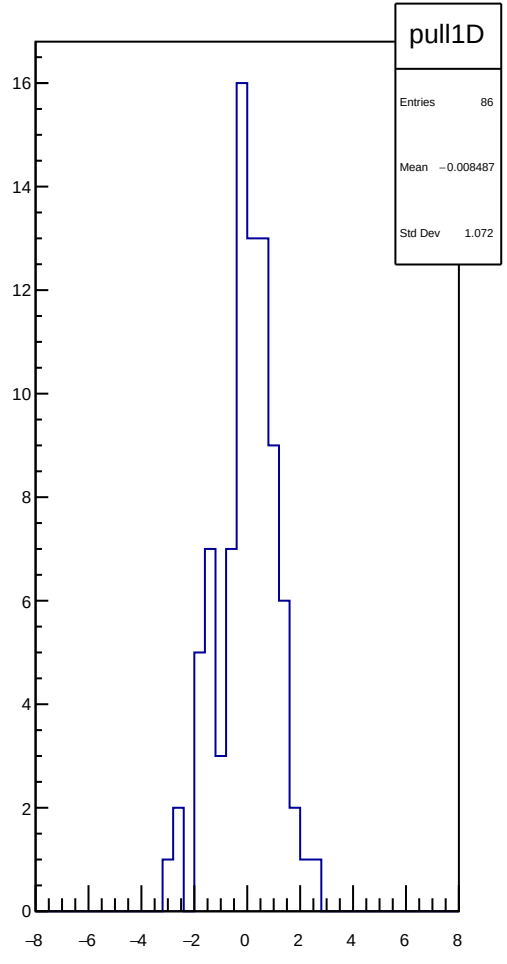

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.985e+05 / 85
p0 9.645e−11 ± 1.086e−13
1
0.8
0.6
0.4
0.2

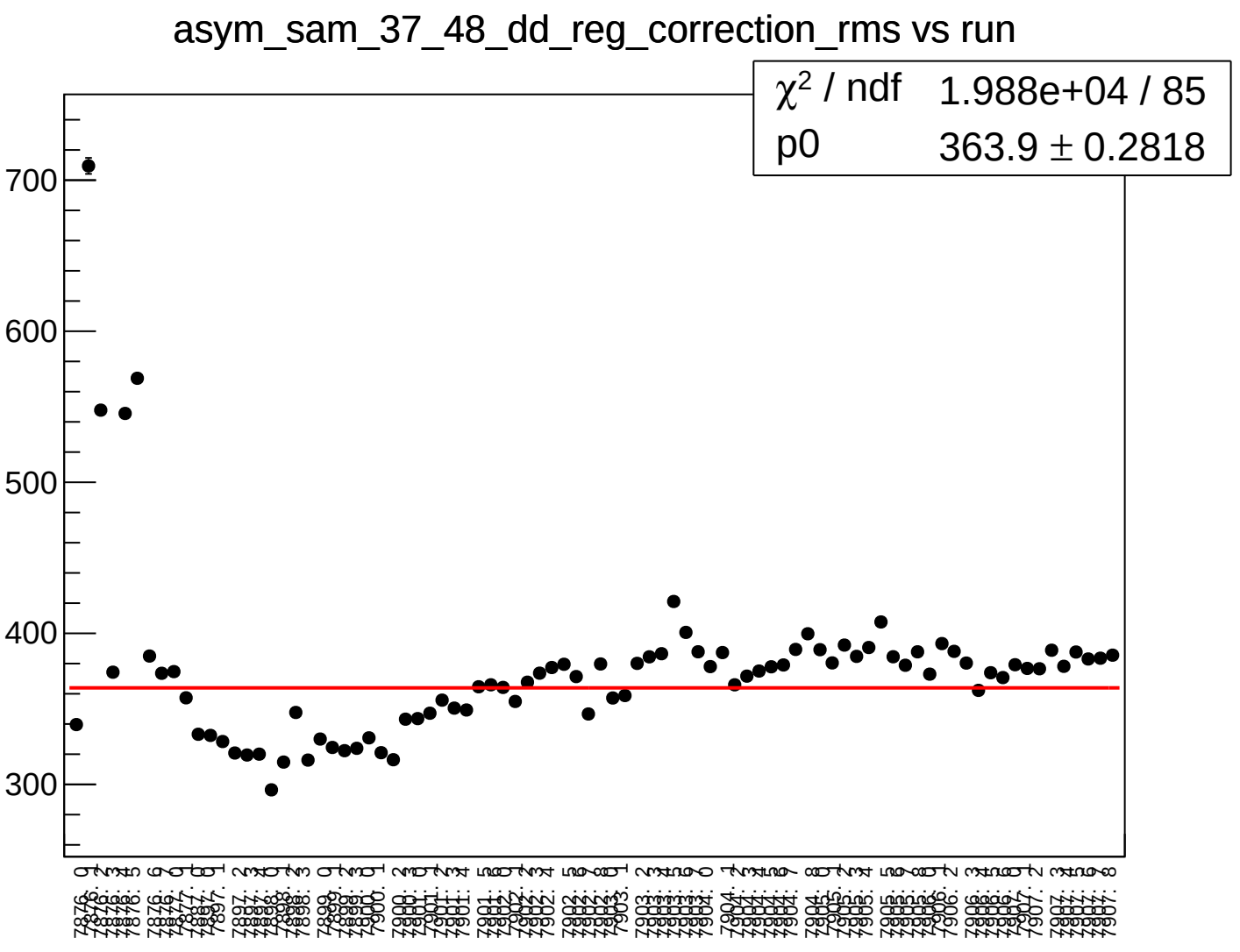

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 81.84 / 85
p0 −124.2 ± 76.12
pull
Entries 86
Mean 210.7
Std Dev 0

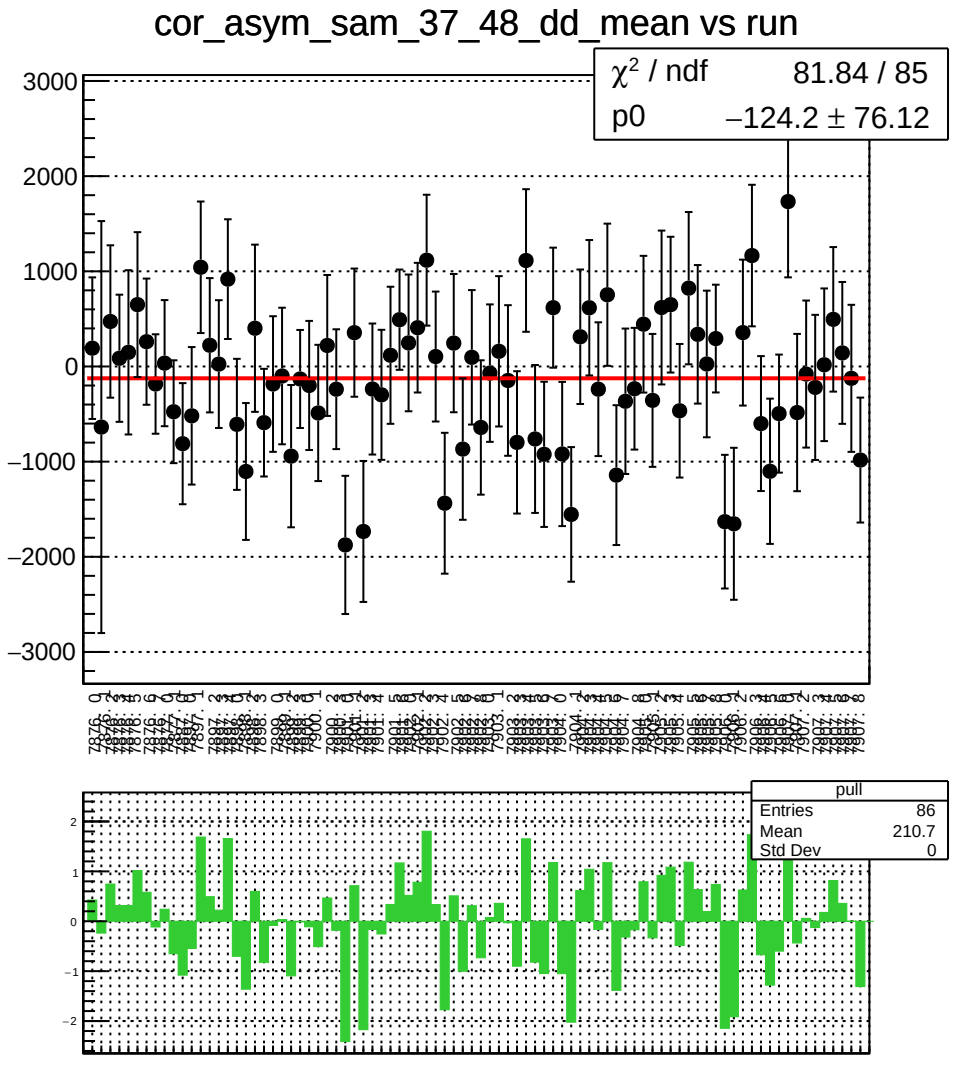

pull1D
Entries 86
Mean −0.002325
Std Dev 0.9755

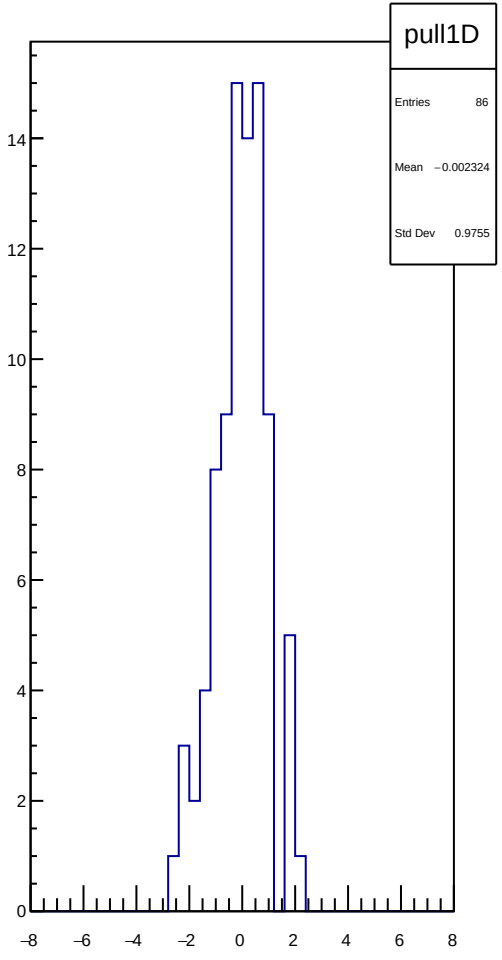

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.457e+04 / 85
p0 69.63 ± 0.05383
220
200
180
160
140
120
100
80
60

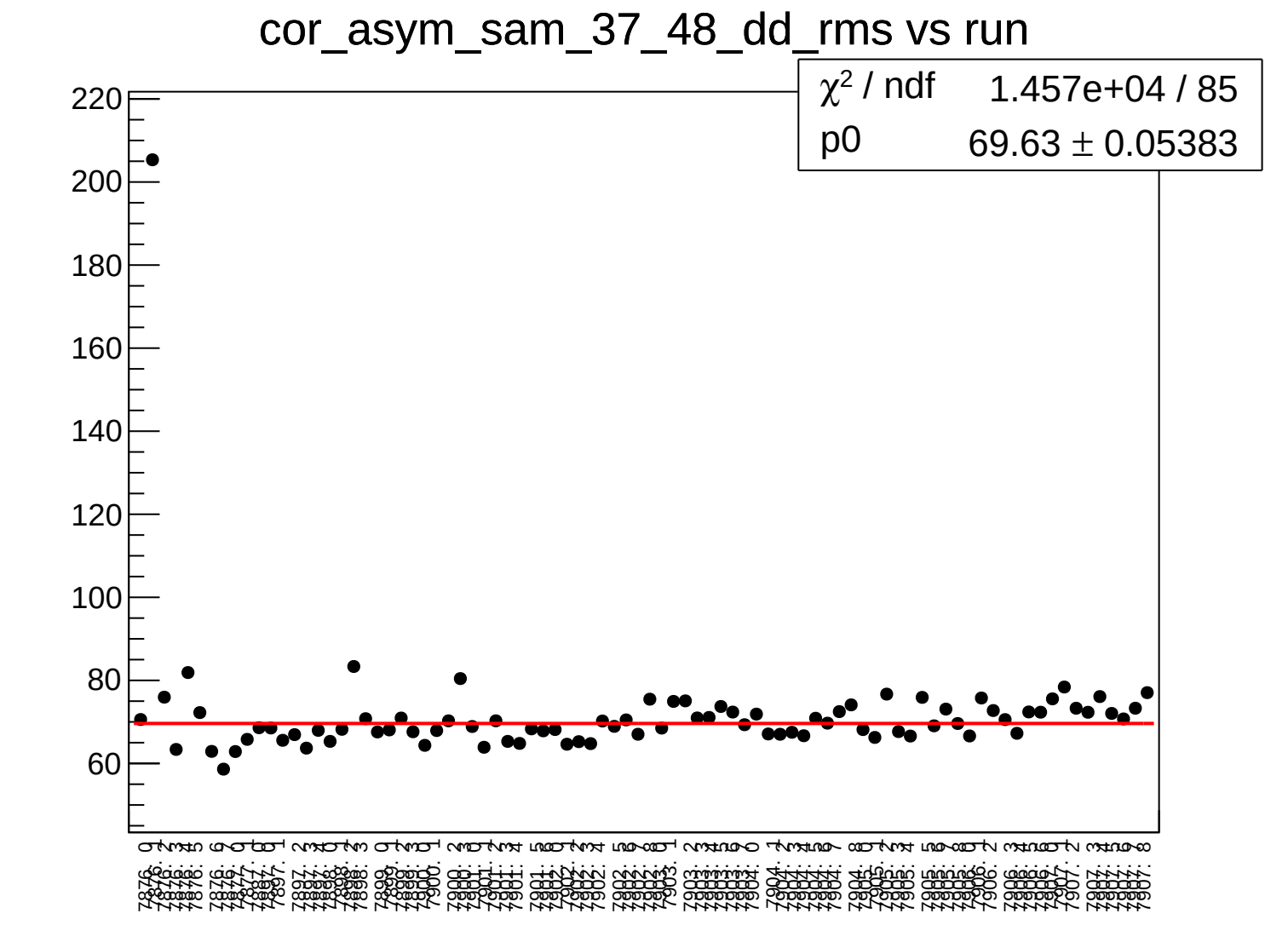

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 98.86 / 85
p0 639.9 ± 398.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 98.07
Std Dev 84.67
2
1
0
−1
−2
−3

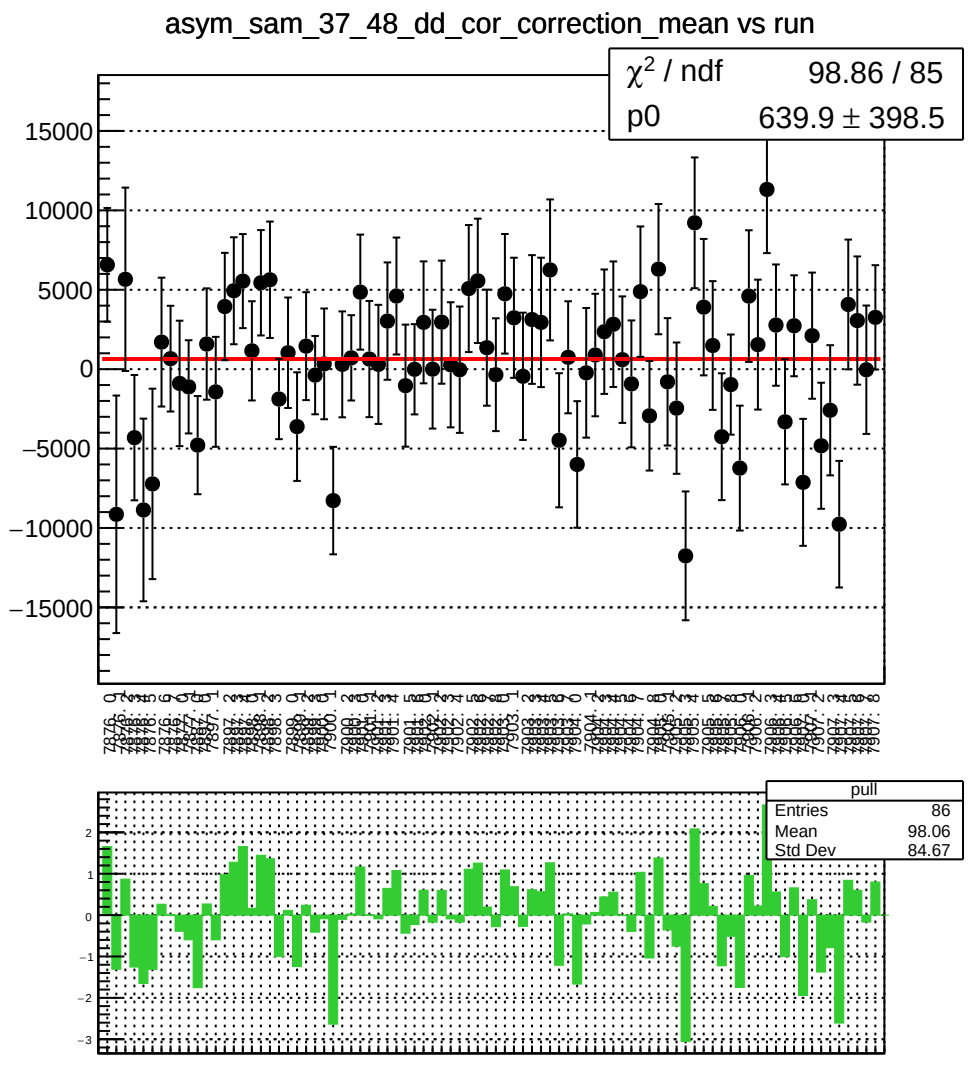

pull1D
Entries 86
Mean −0.008487
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

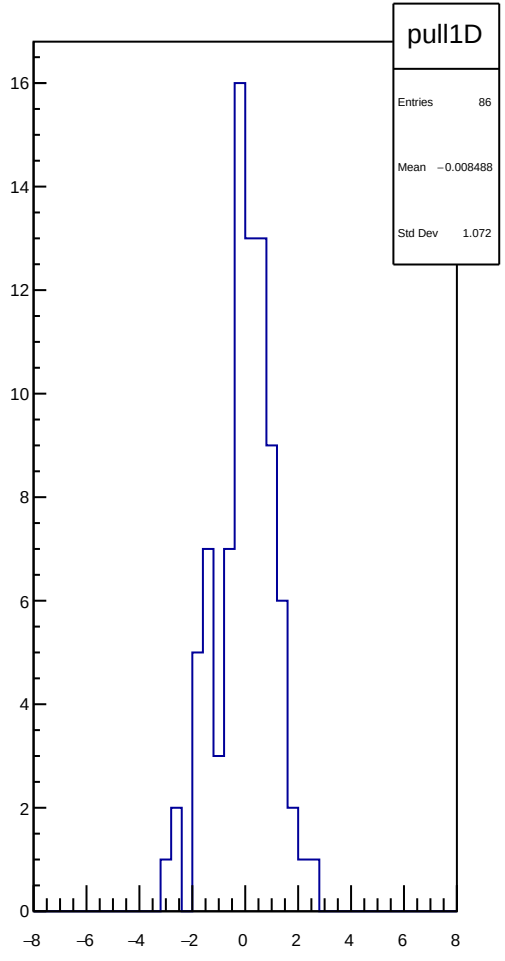

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1.988e+04 / 85
p0 363.9 ± 0.2818
700
600
500
400
300

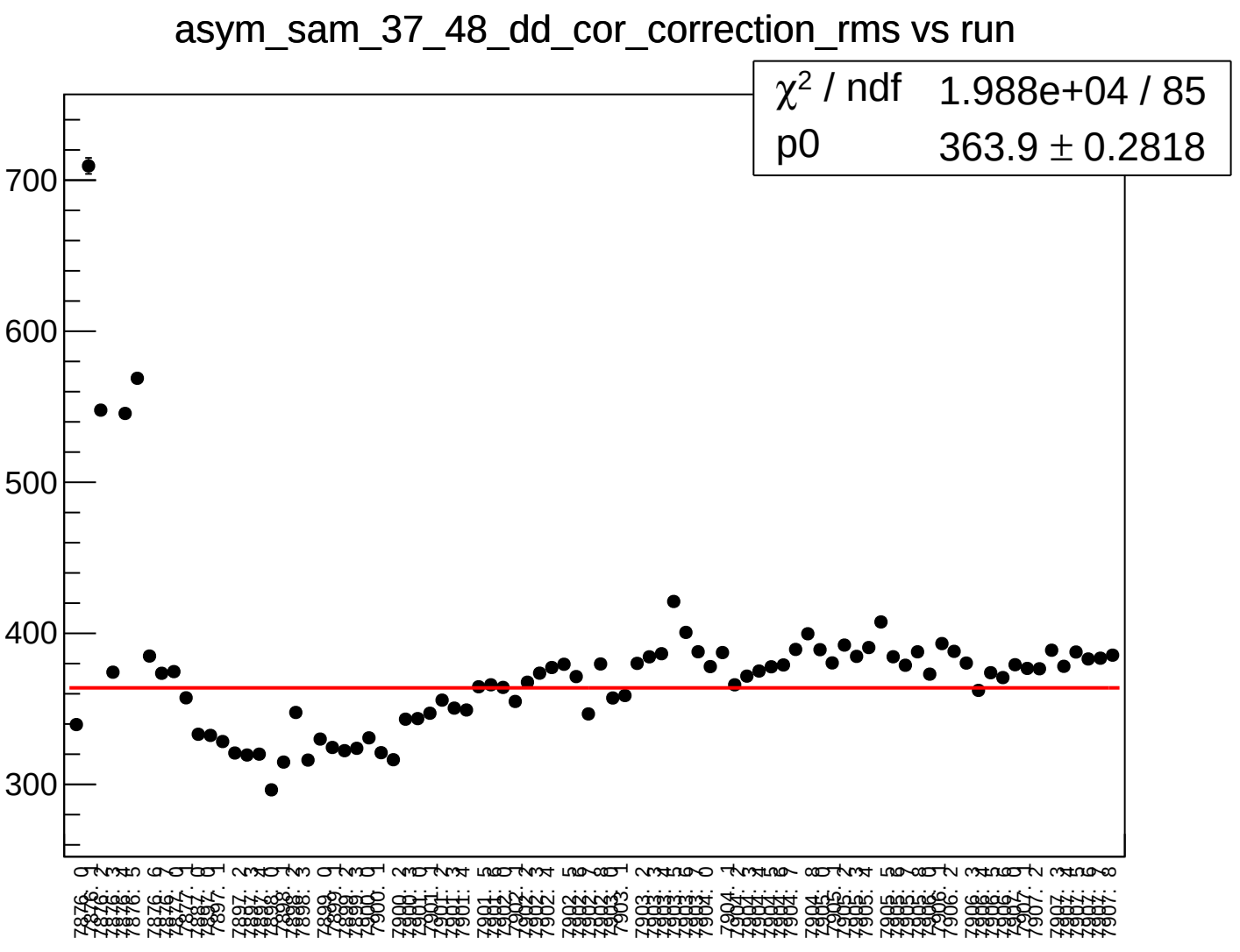

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 81.84 / 85
p0 −124.2 ± 76.12
pull
Entries 86
Mean 210.7
Std Dev 0

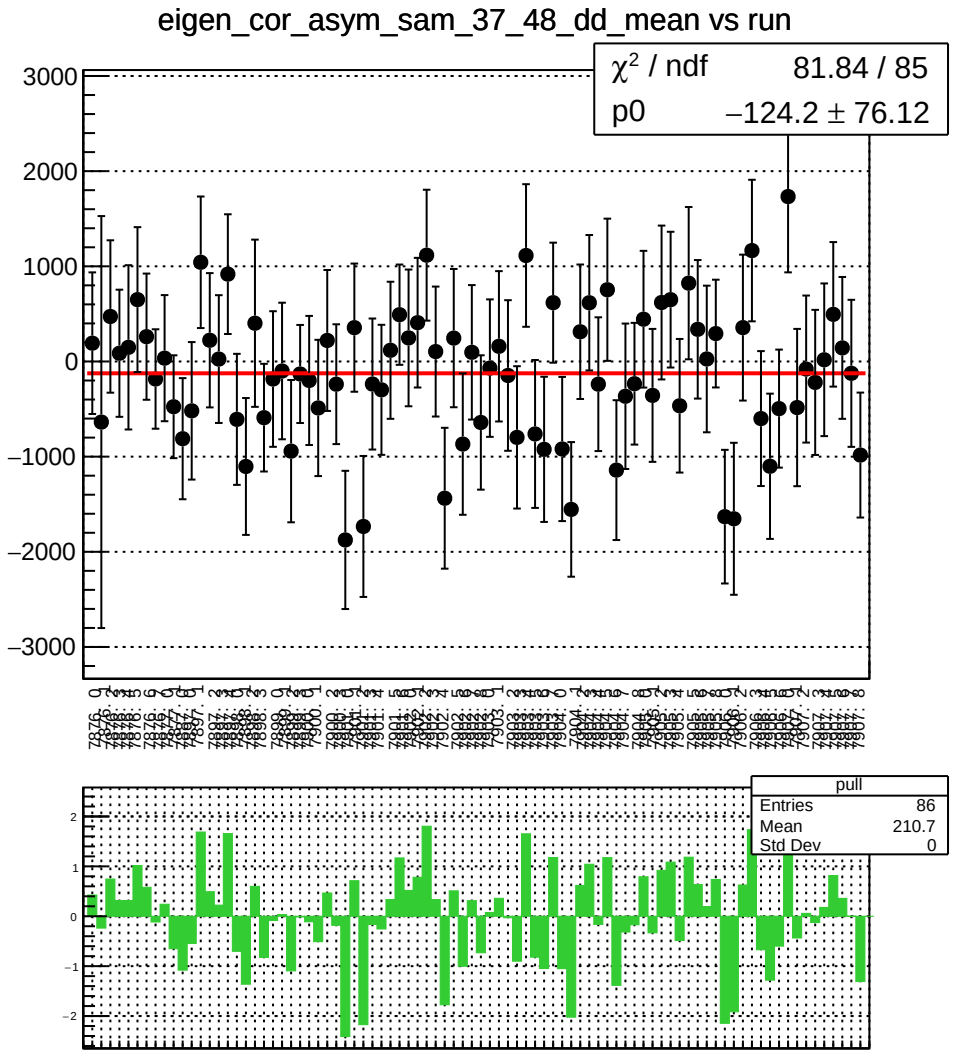

pull1D
Entries 86
Mean −0.002324
Std Dev 0.9755

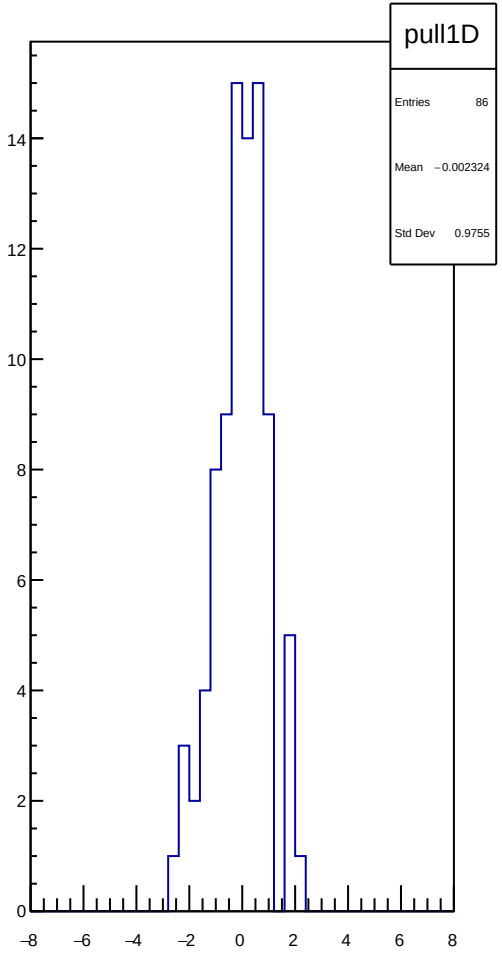

cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.457e+04 / 85
p0 69.63 ± 0.05383
220
200
180
160
140
120
100
80
60

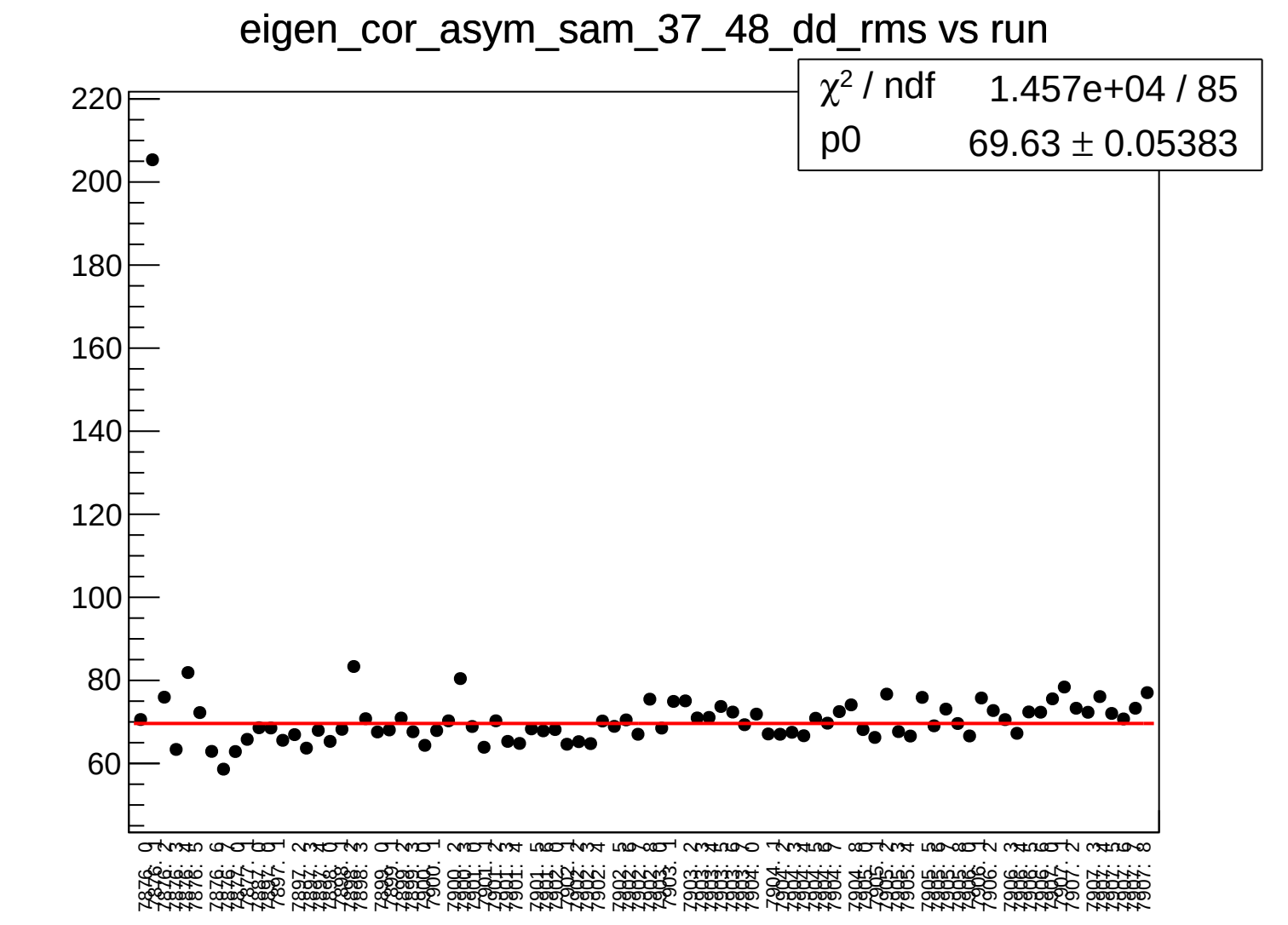

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 98.86 / 85
p0 639.9 ± 398.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 98.06
Std Dev 84.67
2
1
0
−1
−2
−3

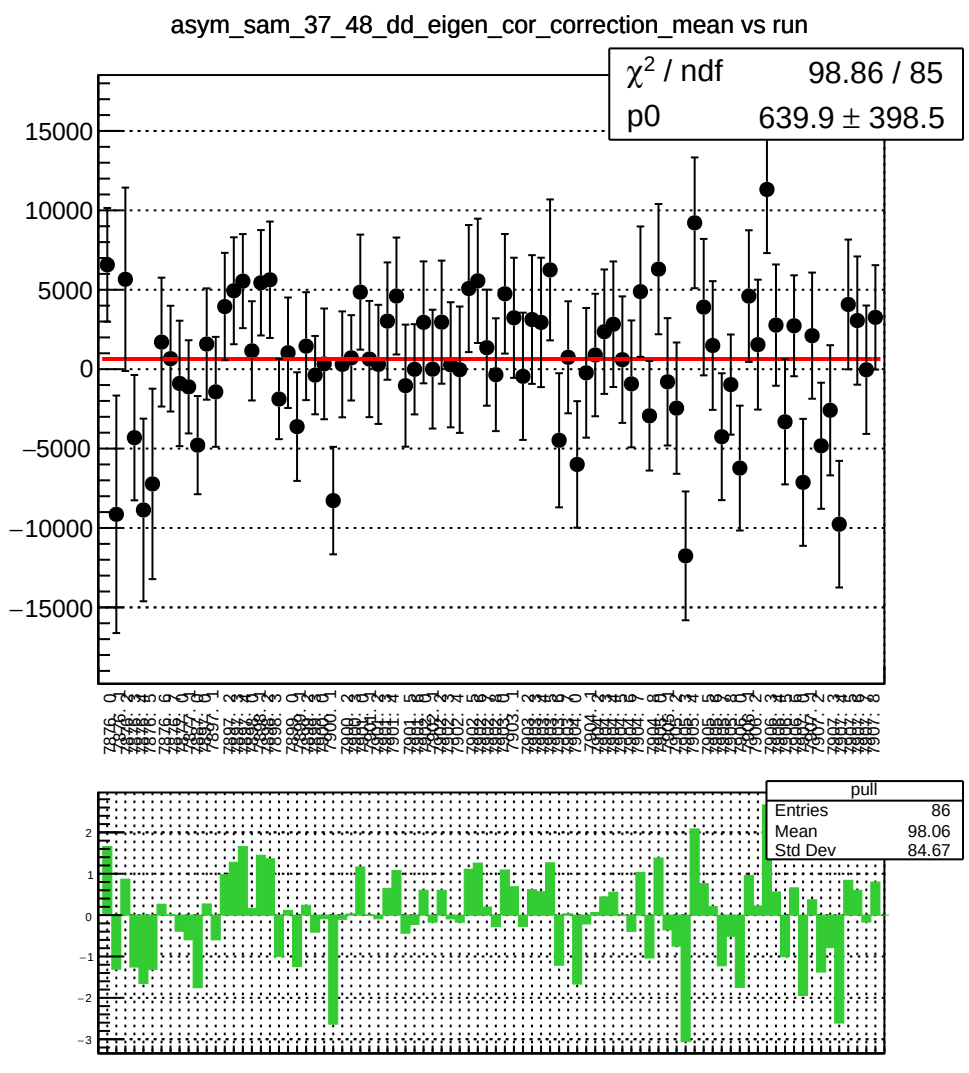

pull1D
Entries 86
Mean −0.008488
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

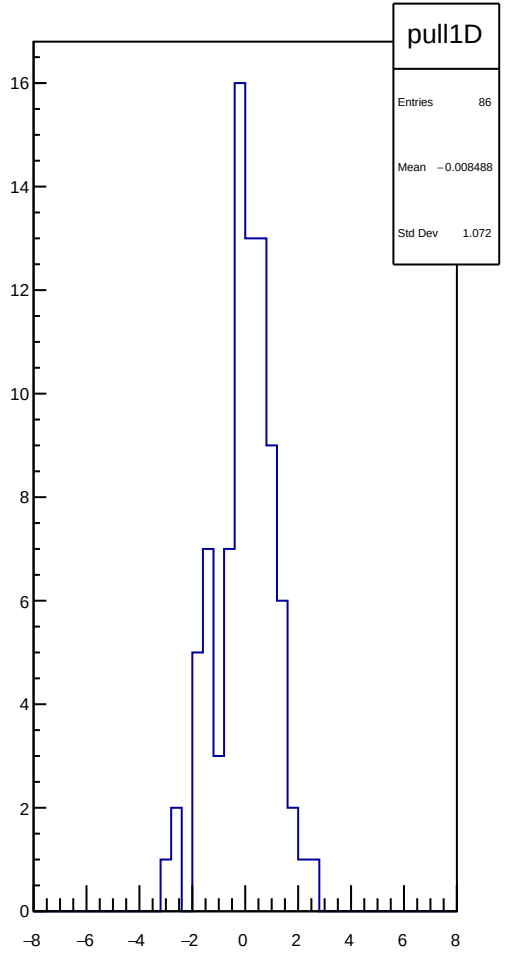

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.988e+04 / 85
p0 363.9 ± 0.2818
700
600
500
400
300

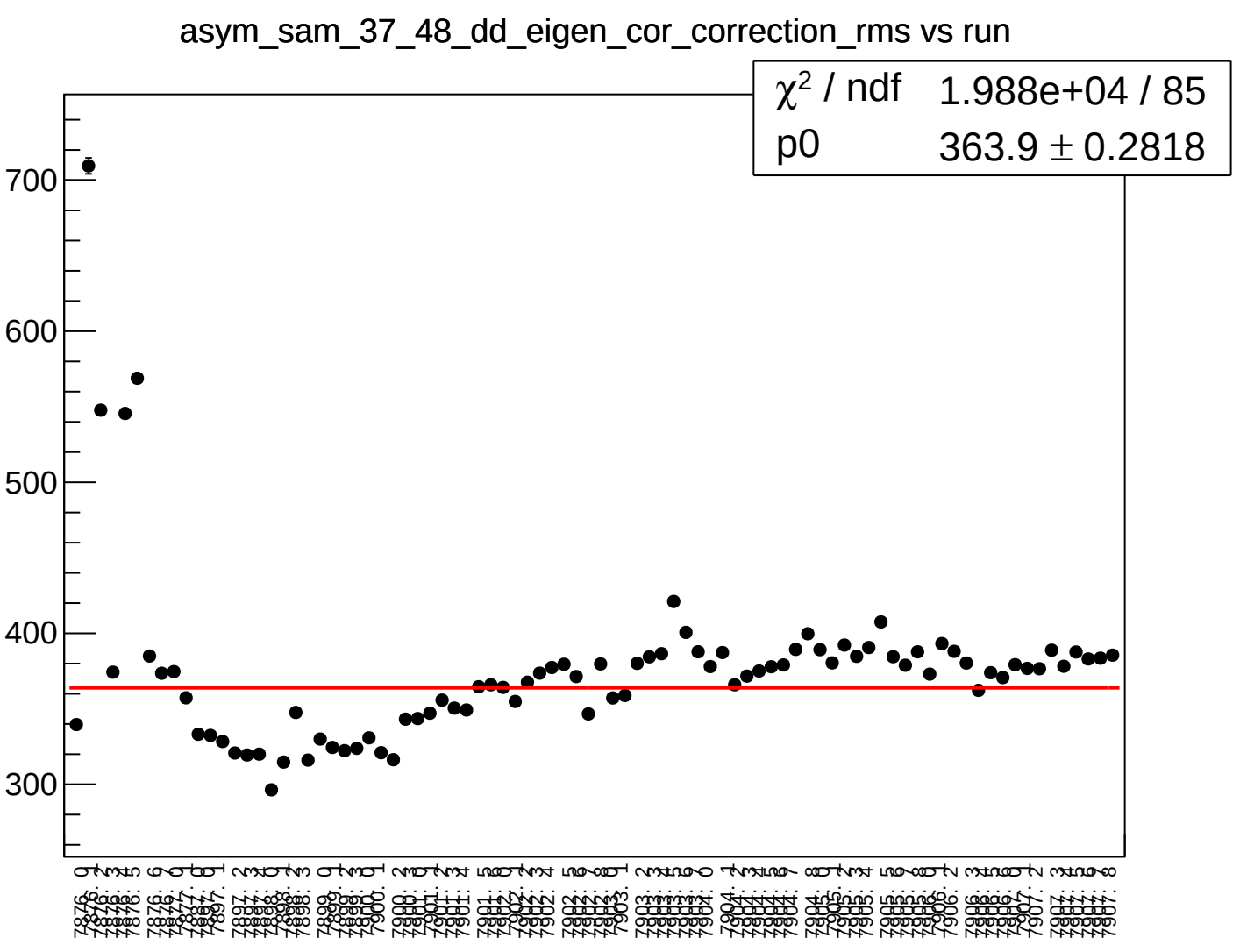

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 81.84 / 85
p0 −124.2 ± 76.12
pull
Entries 86
Mean 210.7
Std Dev 0

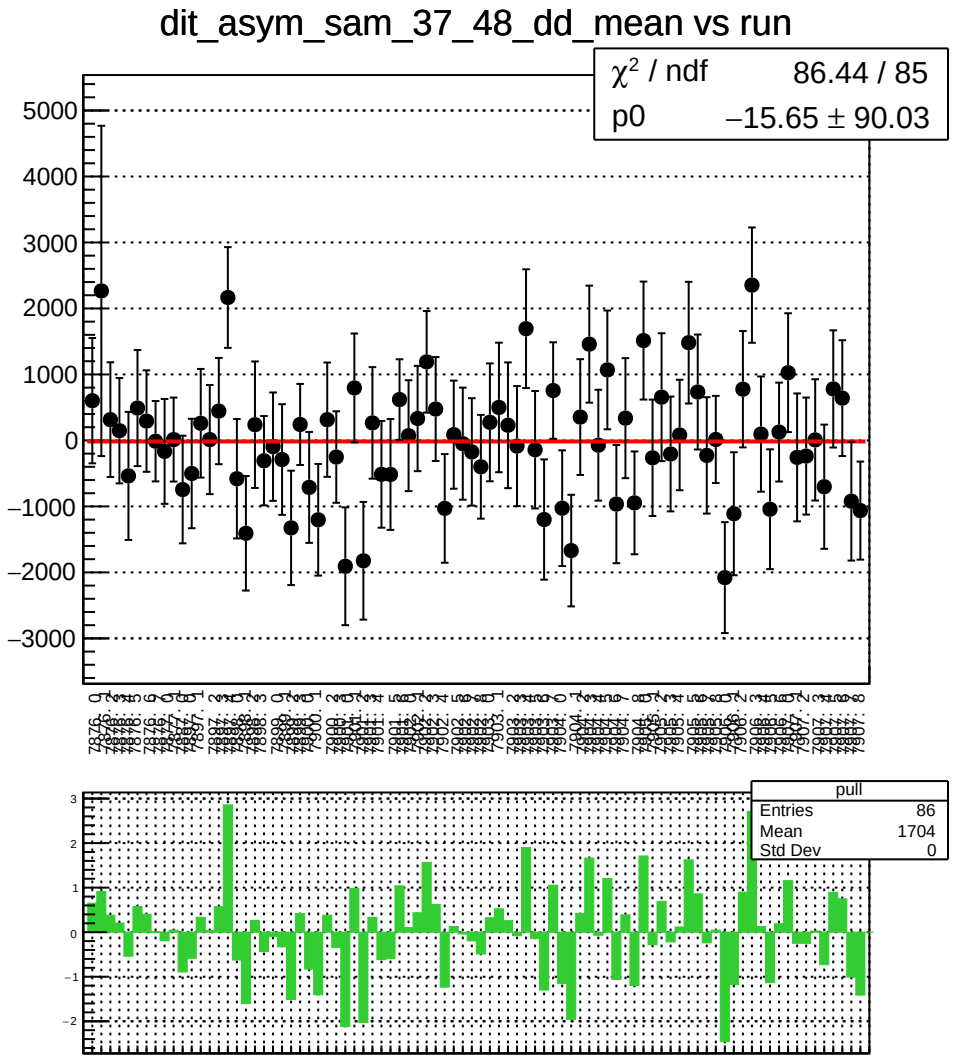

pull1D
Entries 86
Mean −0.002324
Std Dev 0.9755

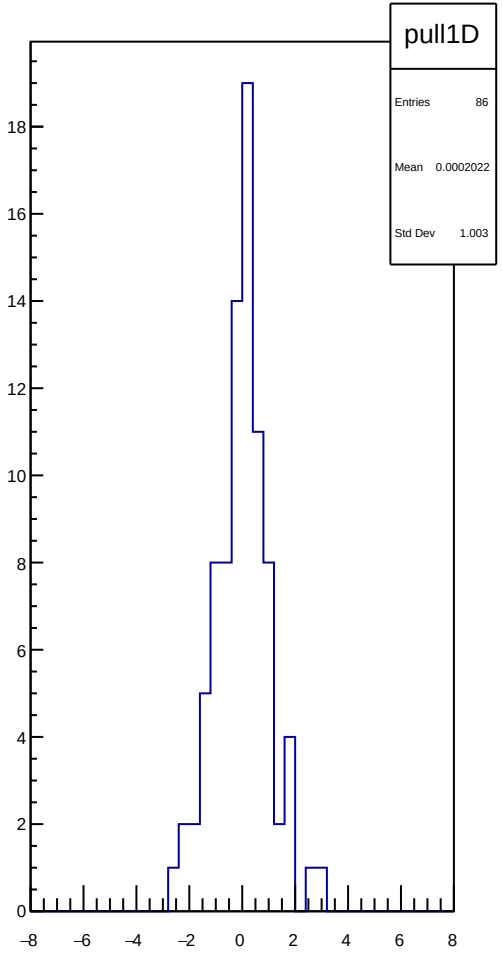

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.457e+04 / 85
p0 69.63 ± 0.05383
220
200
180
160
140
120
100
80
60

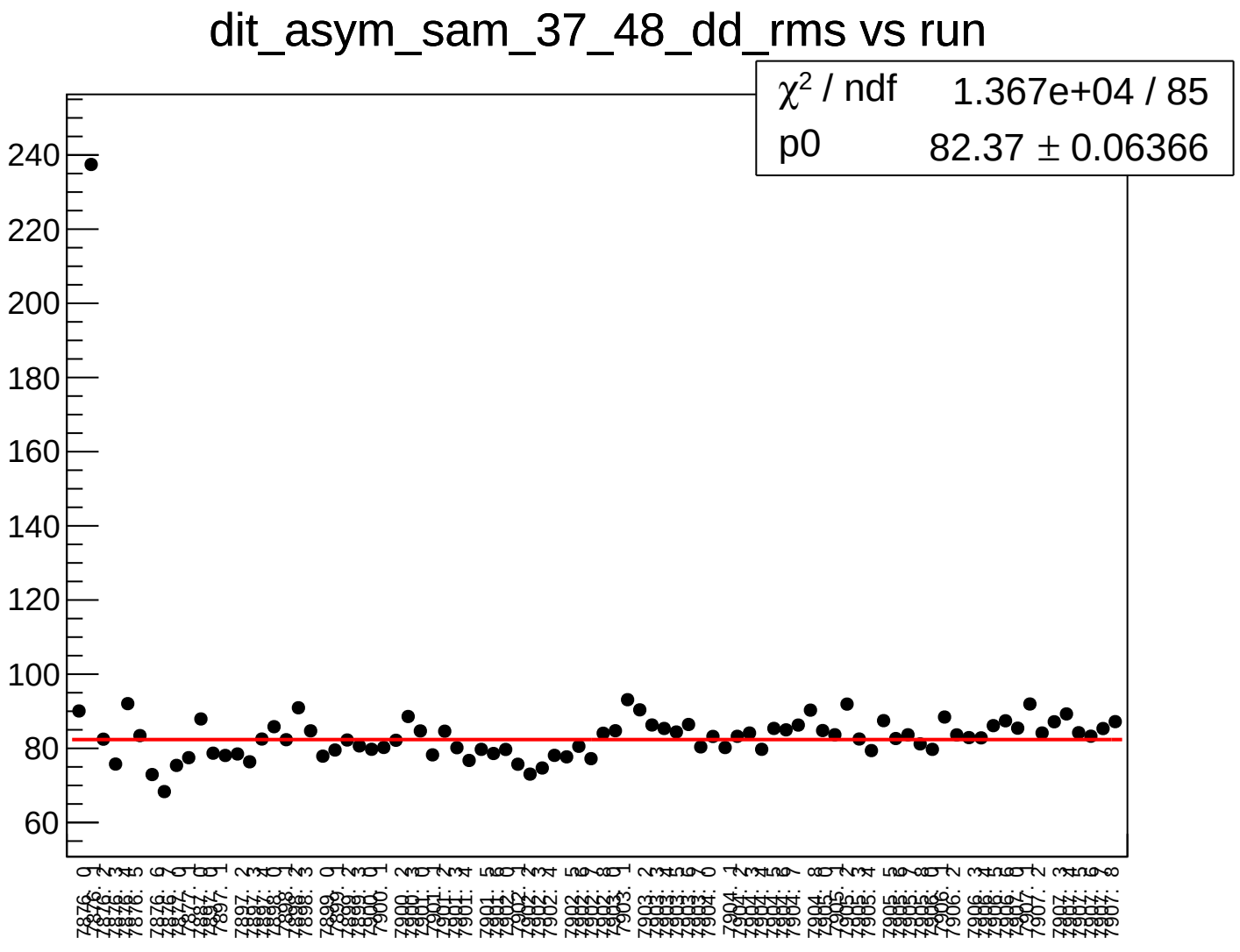

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.86 / 85
p0 639.9 ± 398.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 98.06
Std Dev 84.67
2
1
0
−1
−2
−3

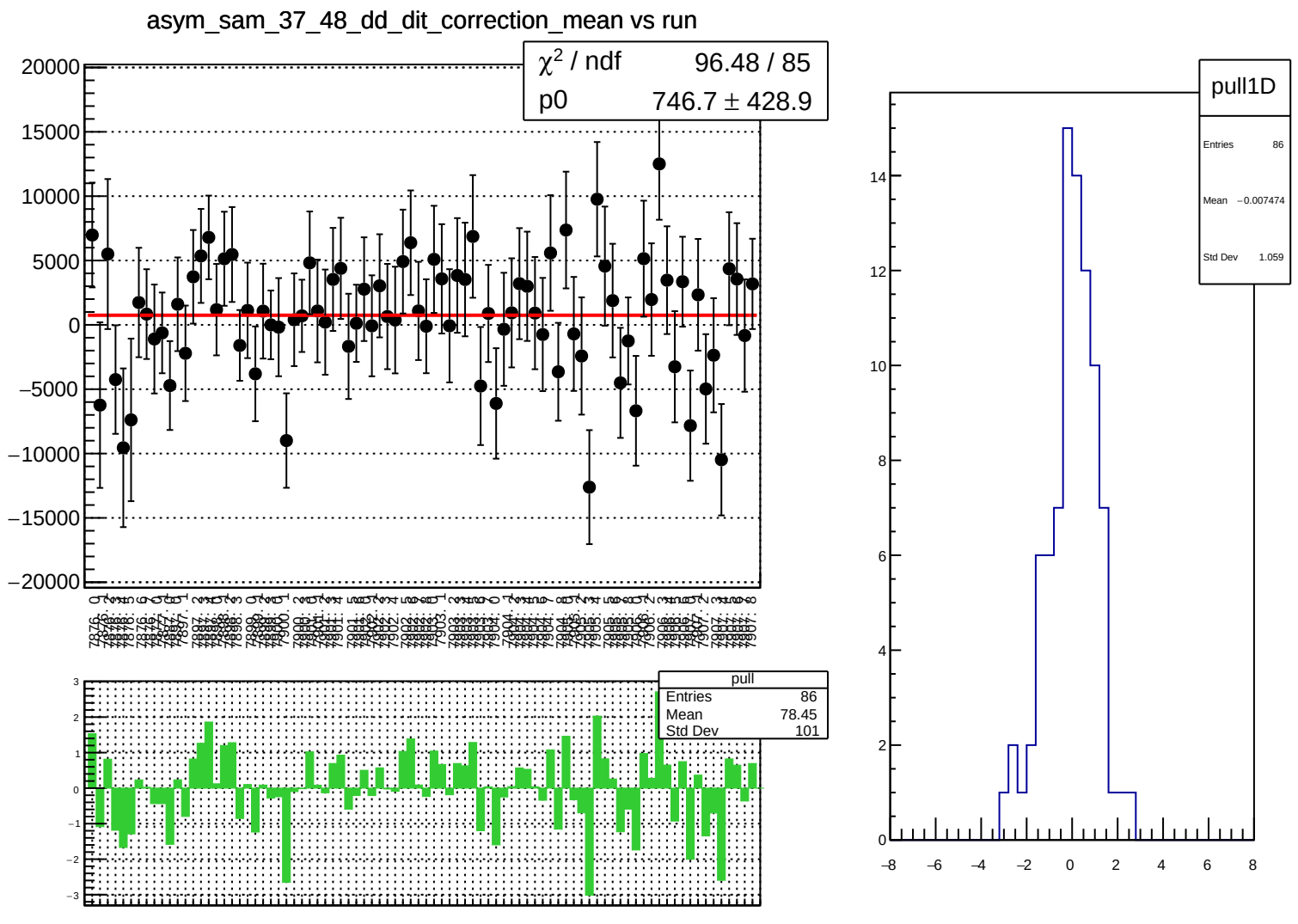

pull1D
Entries 86
Mean −0.008488
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

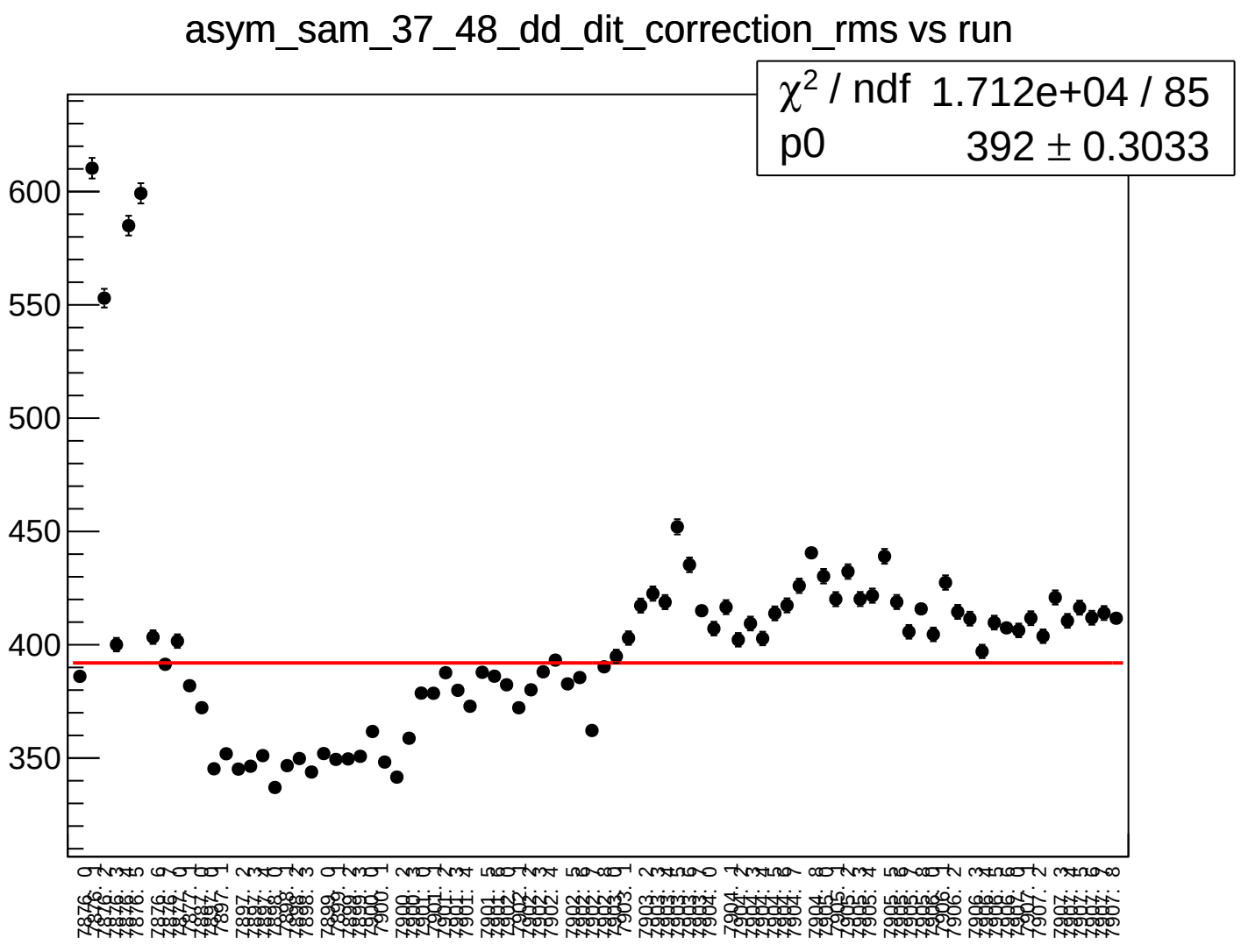

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.988e+04 / 85
p0 363.9 ± 0.2818
700
600
500
400
300

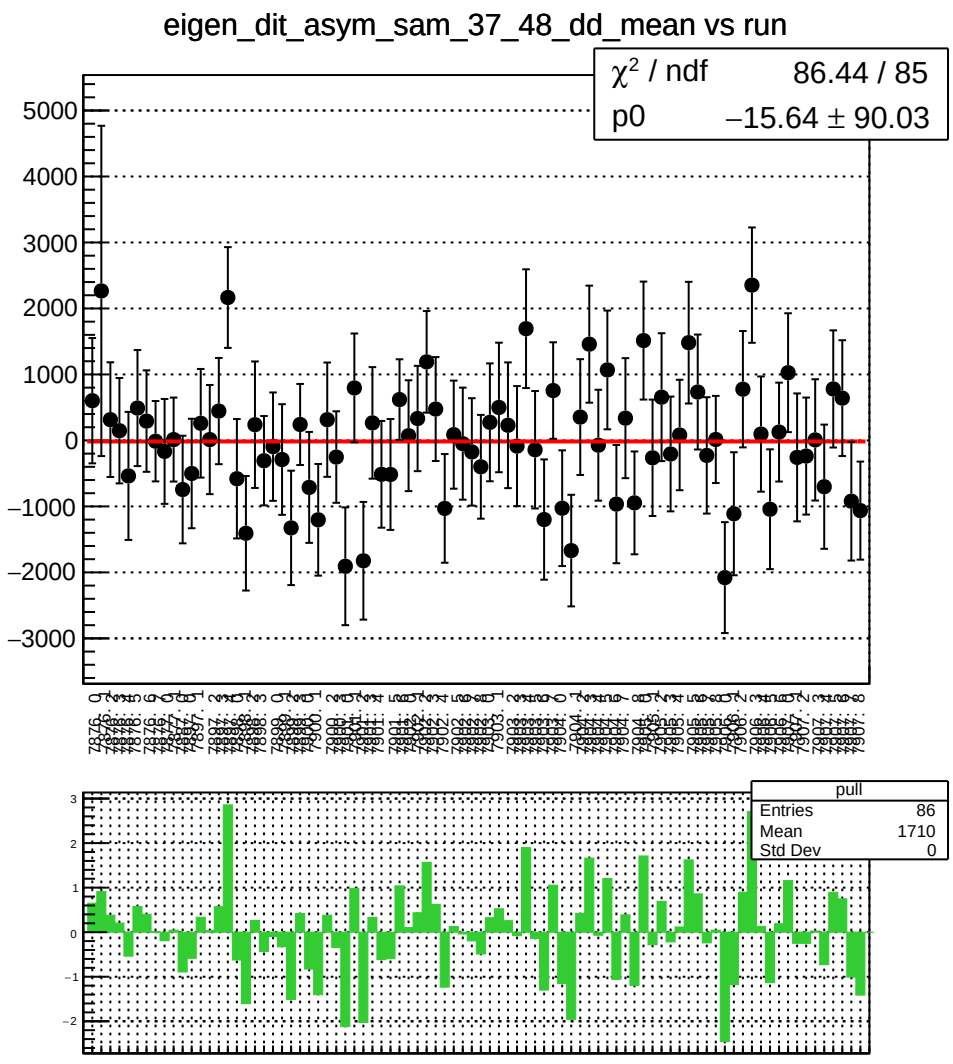

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 86.44 / 85
p0 −15.65 ± 90.03
pull
Entries 86
Mean 1704
Std Dev 0

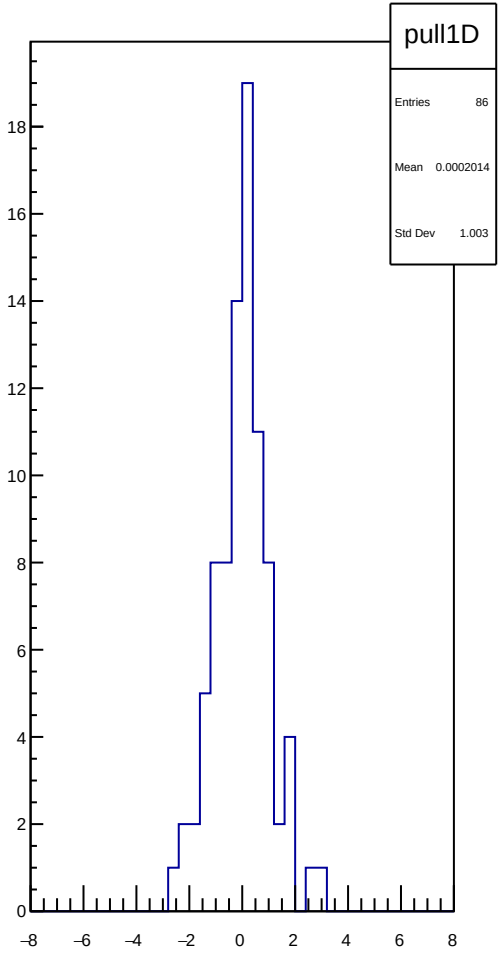

pull1D
Entries 86
Mean 0.0002022
Std Dev 1.003

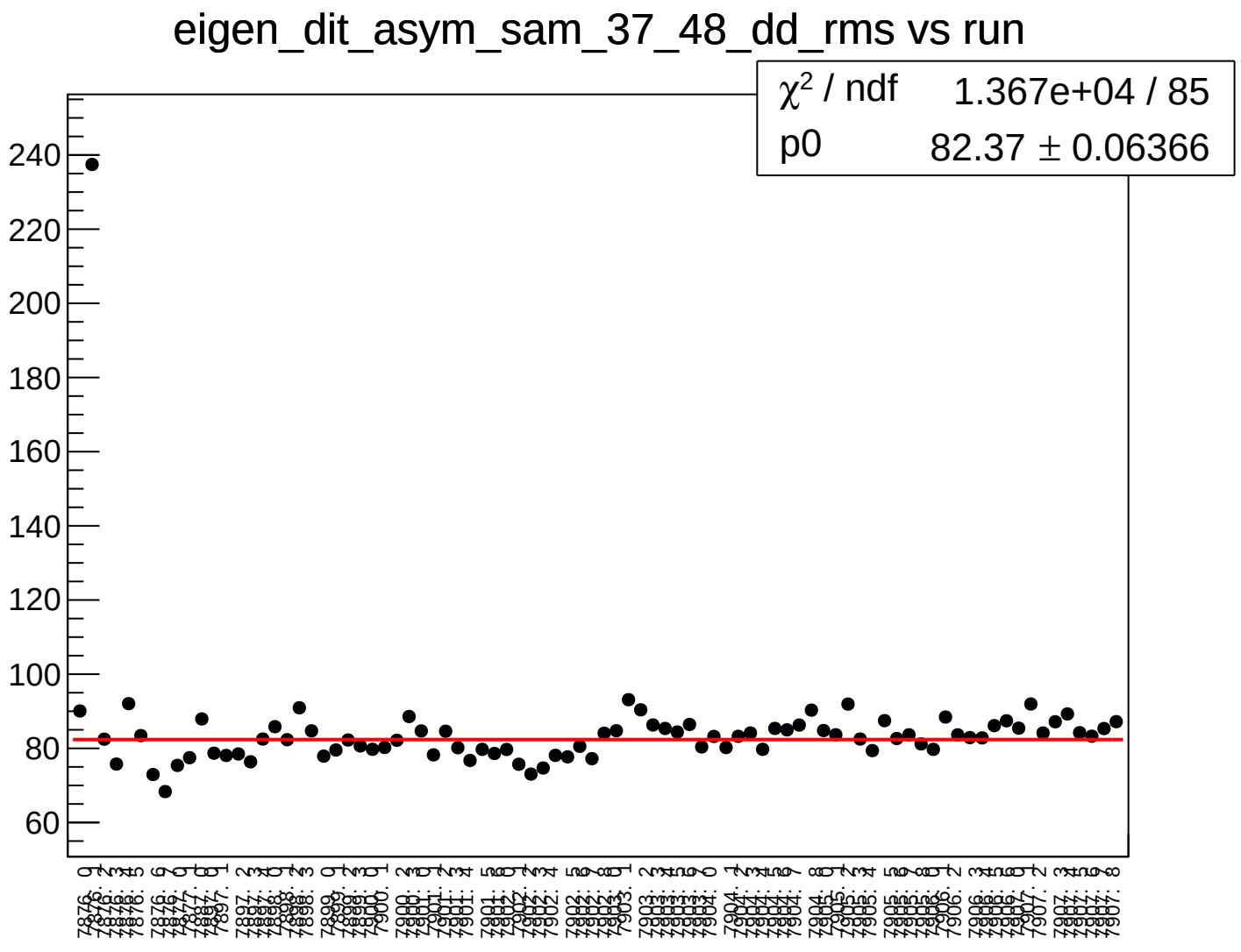

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.367e+04 / 85
p0 82.37 ± 0.06366
240
220
200
180
160
140
120
100
80
60

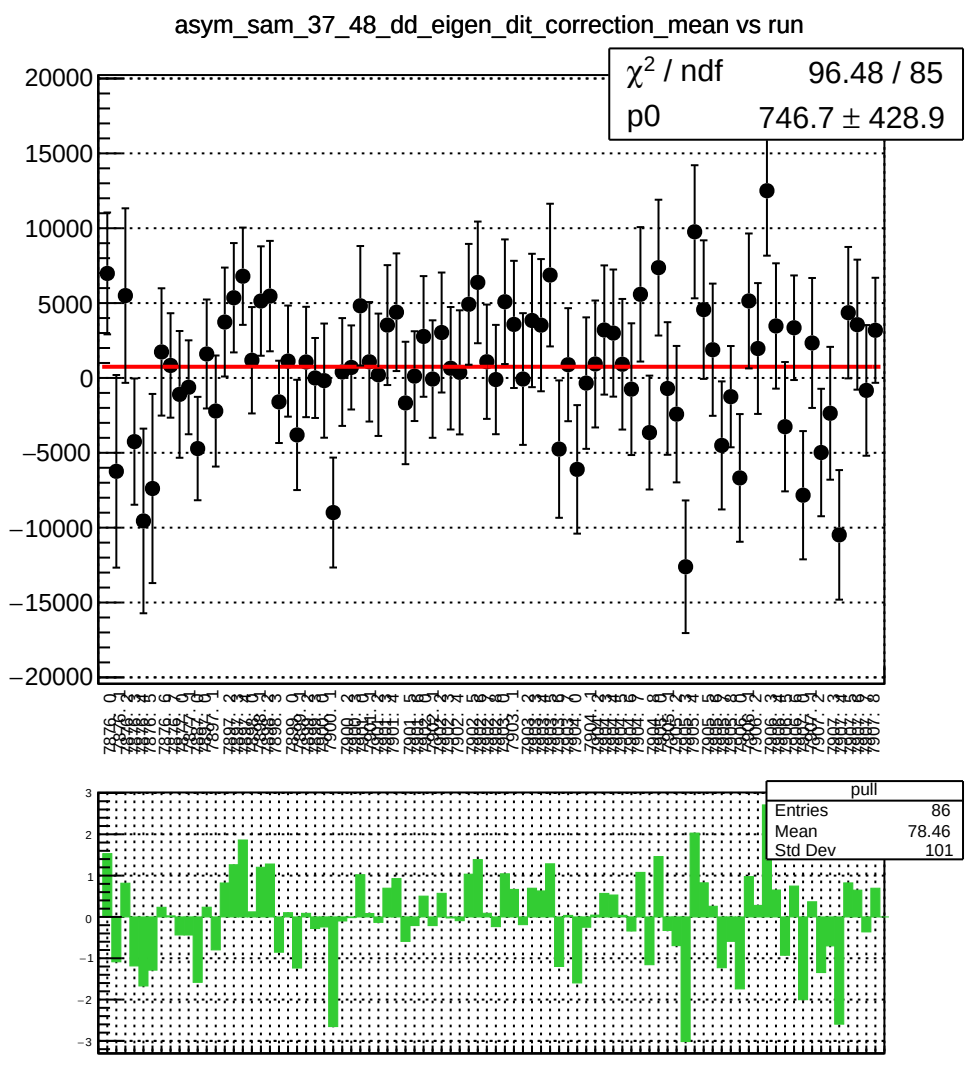

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 96.48 / 85
p0 746.7 ± 428.9
pull
Entries 86
Mean 78.45
Std Dev 101
pull1D
Entries 86
Mean −0.007474
Std Dev 1.059

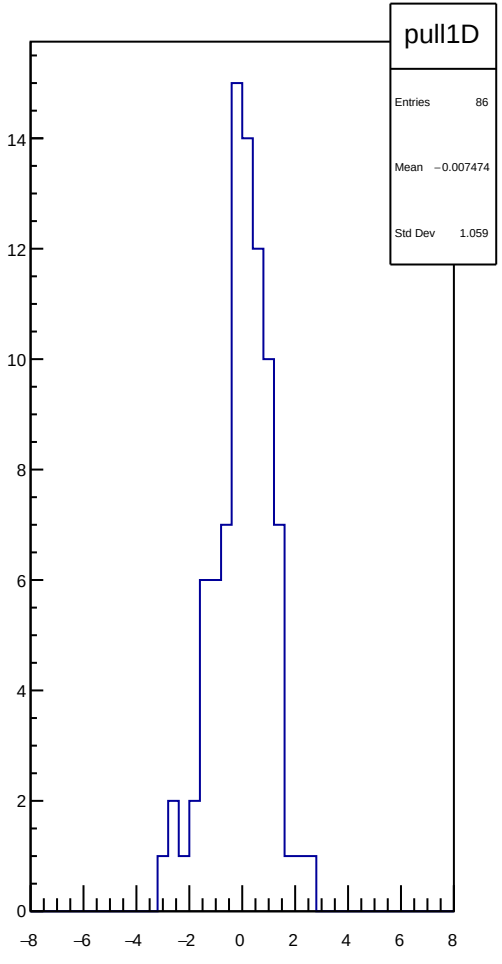

asym_sam_37_48_dd_dit_correction_rms vs run
χ^2 / ndf 1.712e+04 / 85
p0 392 ± 0.3033
600
550
500
450
400
350

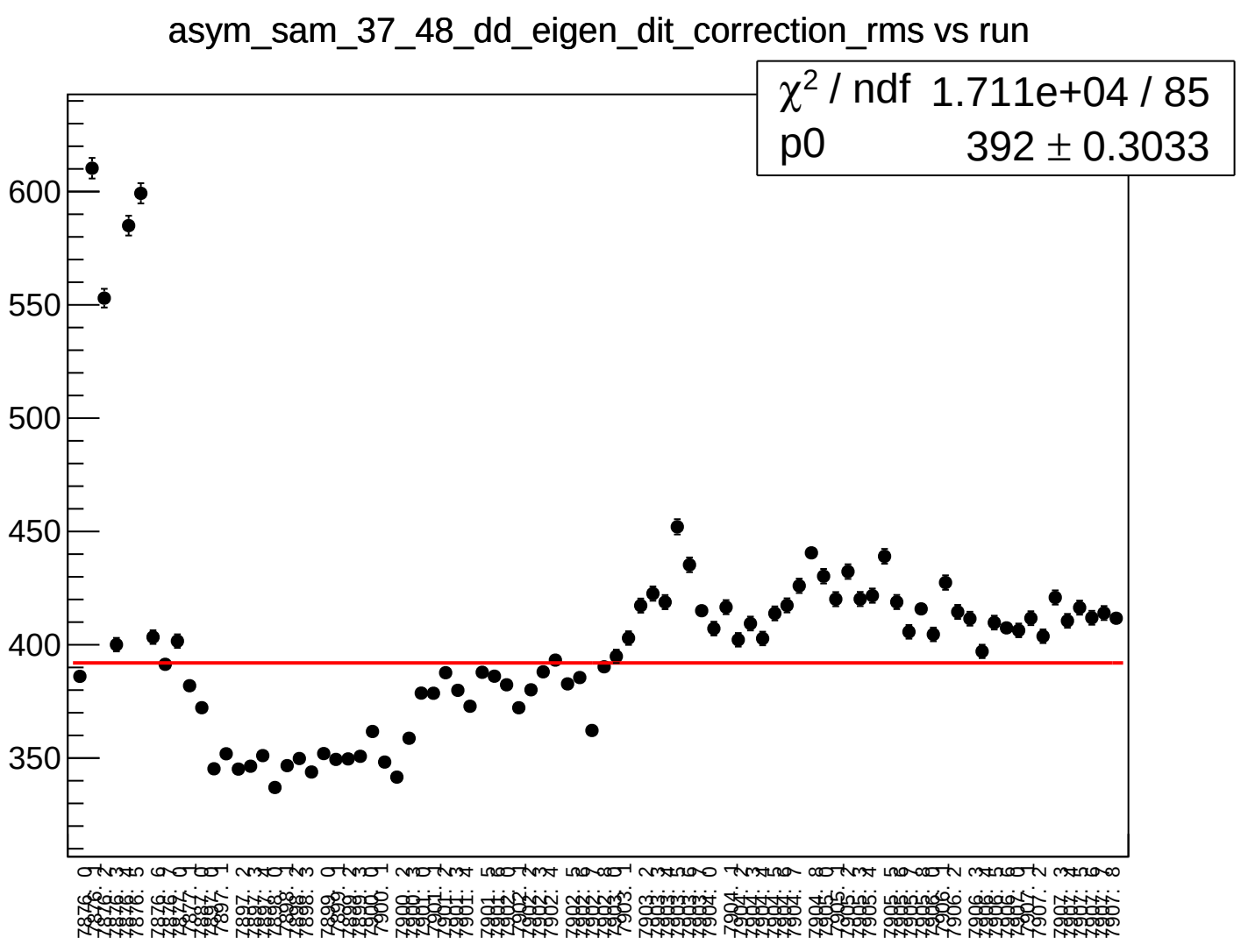

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 86.44 / 85
p0 −15.64 ± 90.03
pull
Entries 86
Mean 1710
Std Dev 0

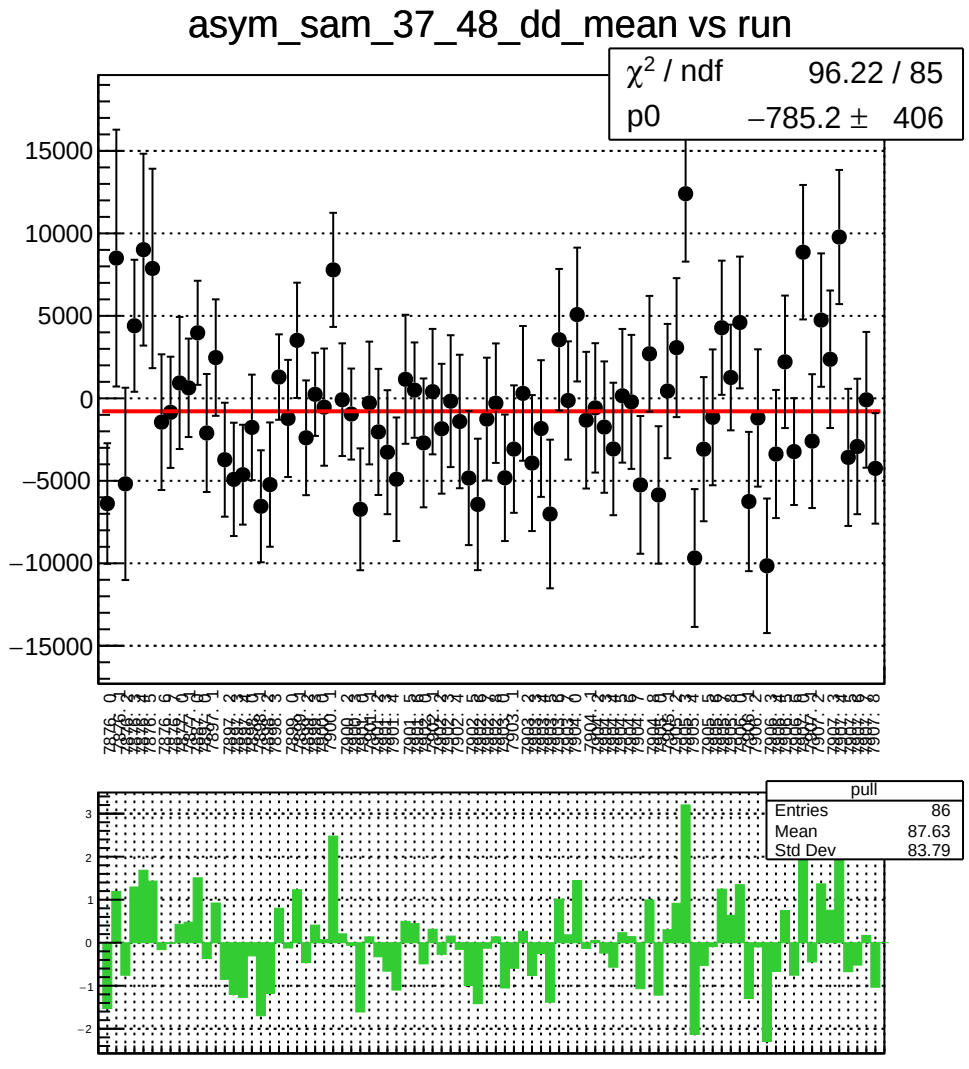

pull1D
Entries 86
Mean 0.0002014
Std Dev 1.003

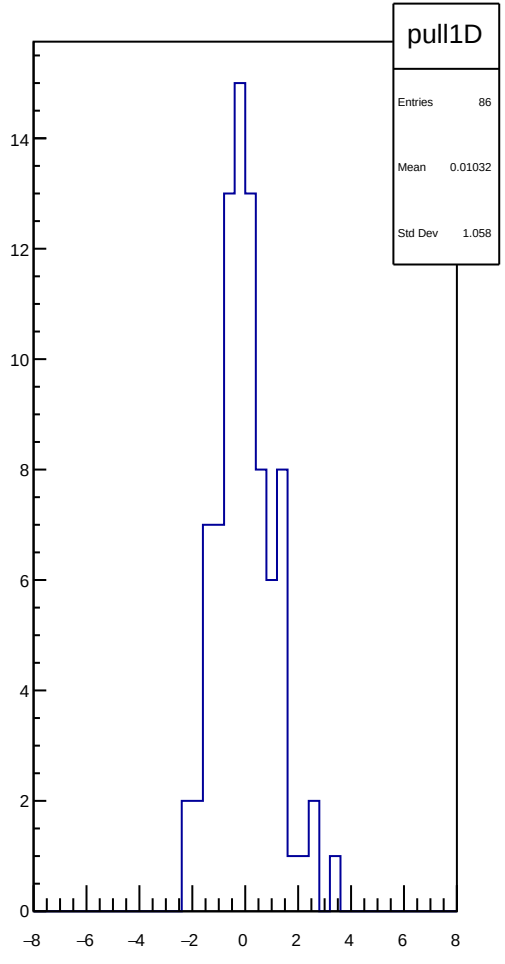

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.367e+04 / 85
p0 82.37 ± 0.06366
240
220
200
180
160
140
120
100
80
60

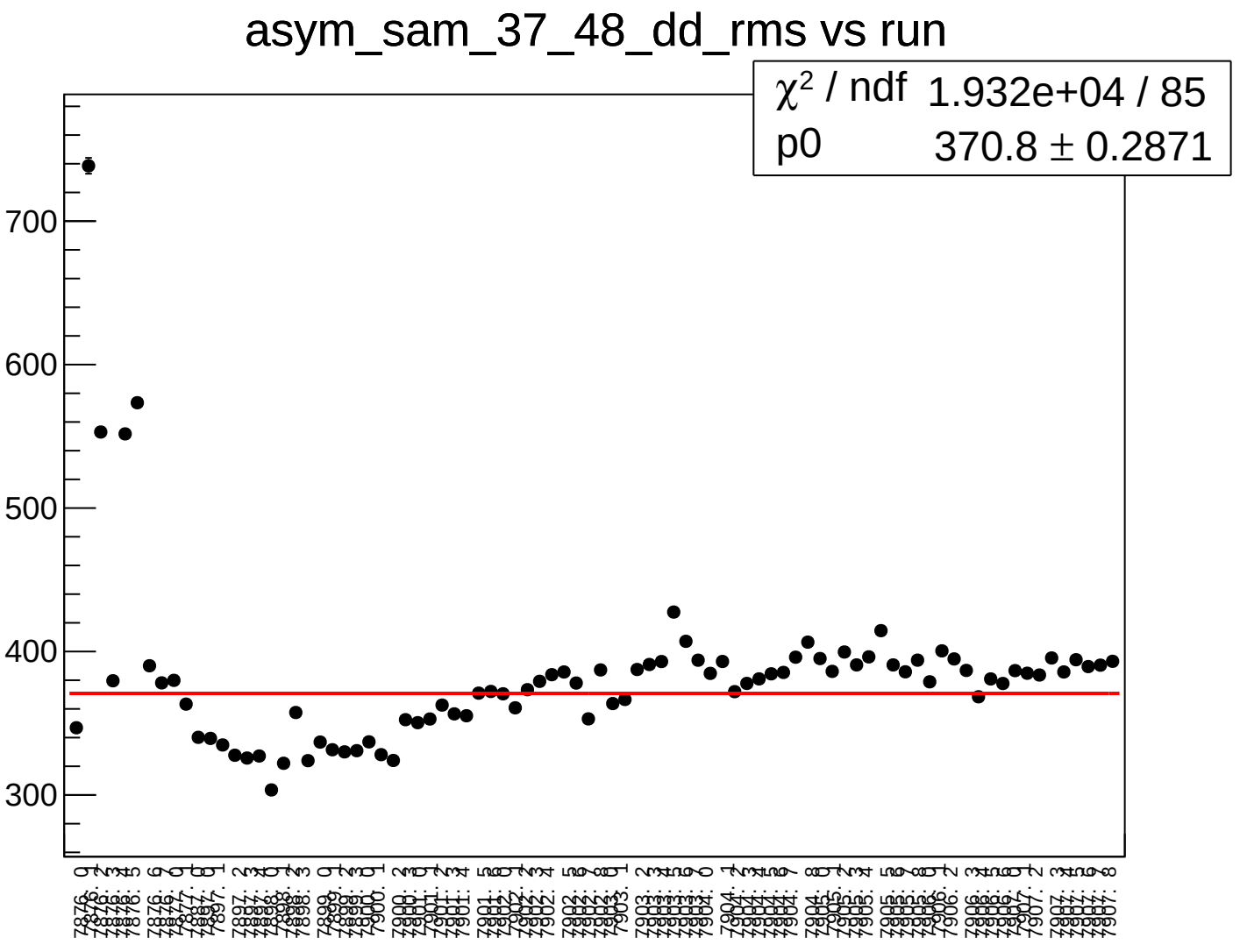

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.48 / 85
p0 746.7 ± 428.9
pull
Entries 86
Mean 78.46
Std Dev 101

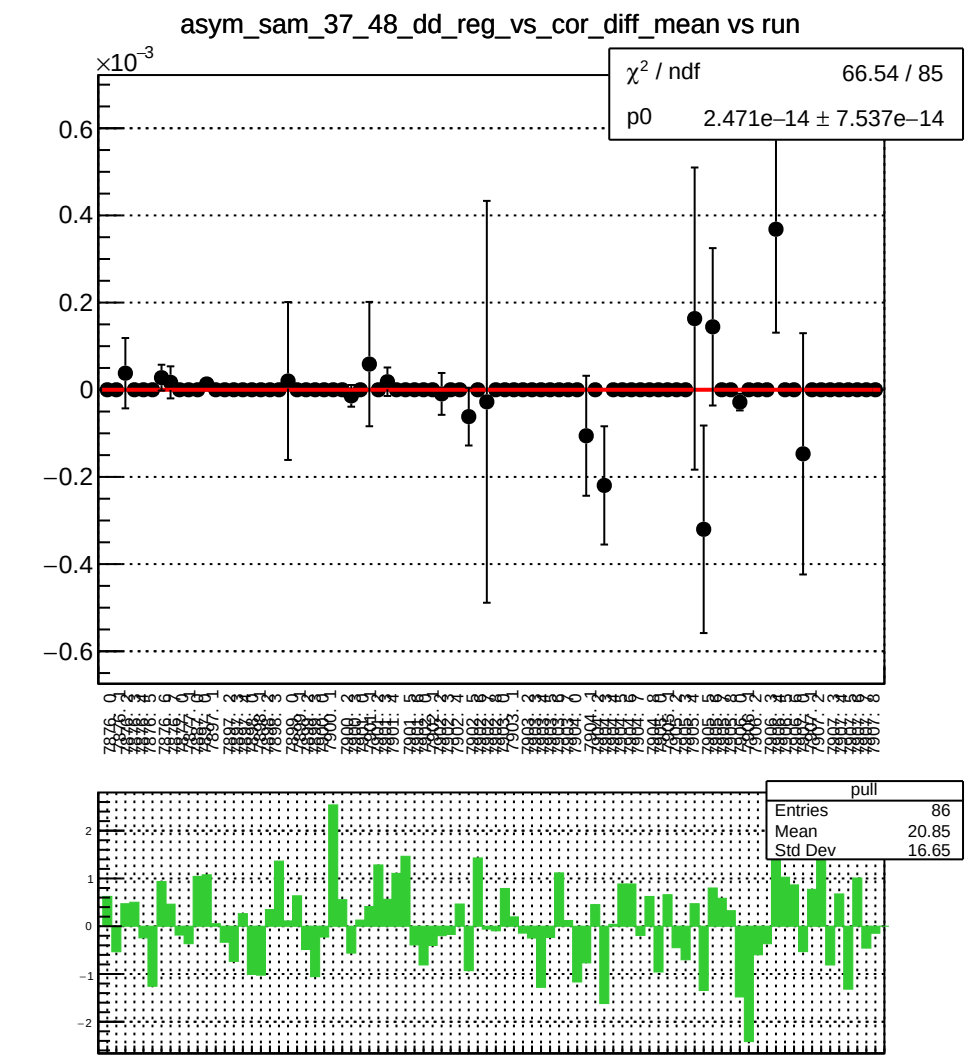

pull1D
Entries 86
Mean −0.007474
Std Dev 1.059

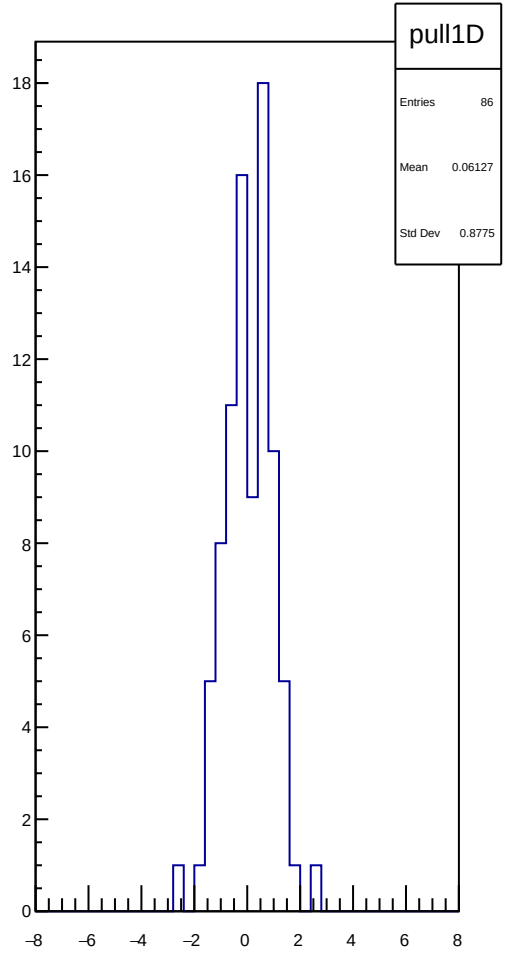

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.711e+04 / 85
p0 392 ± 0.3033
600
550
500
450
400
350

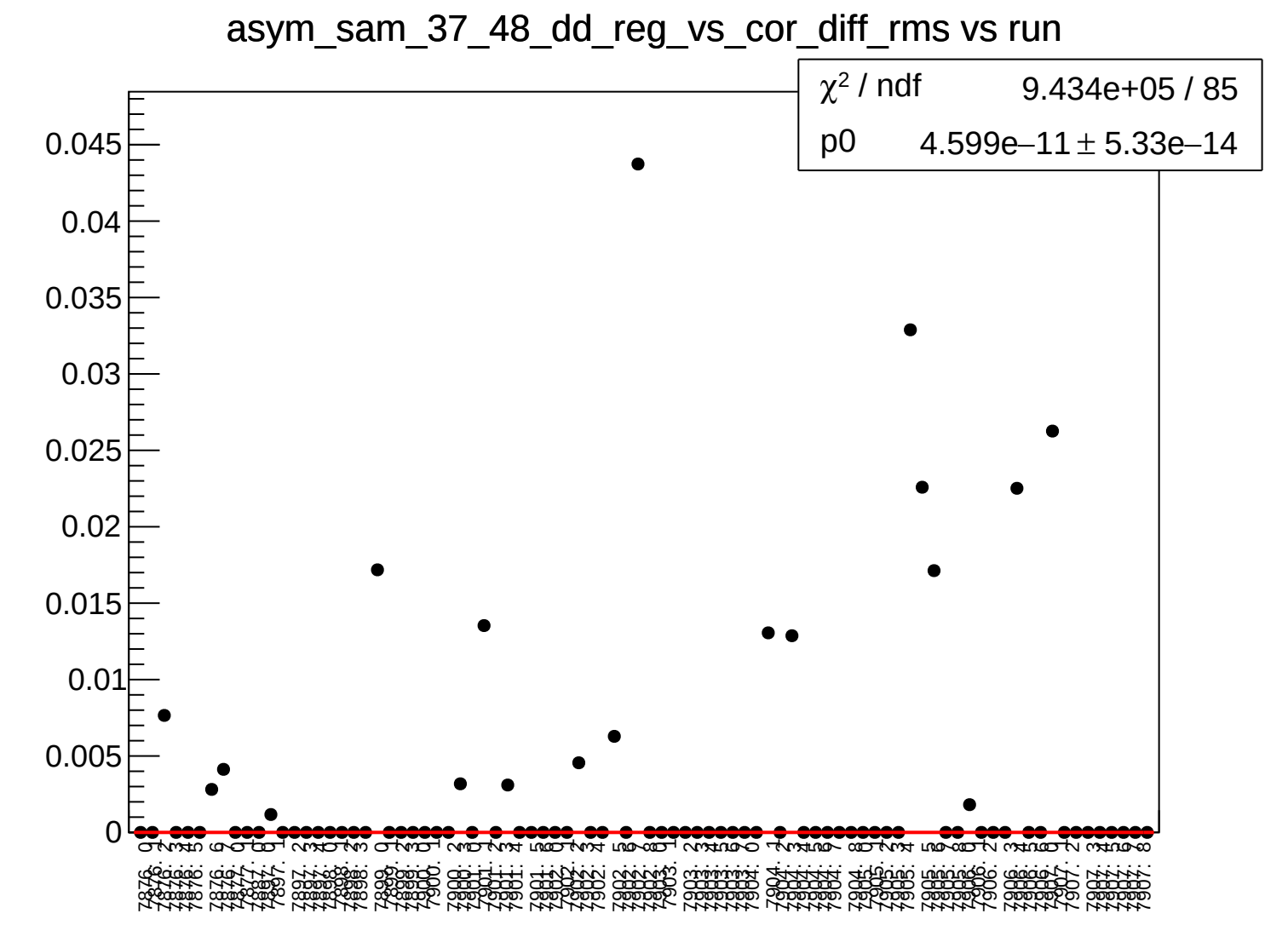

asym_sam_37_48_dd_mean vs run
χ² / ndf 96.22 / 85
p0 −785.2 ± 406
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 87.63
Std Dev 83.79
3
2
1
0
−1
−2

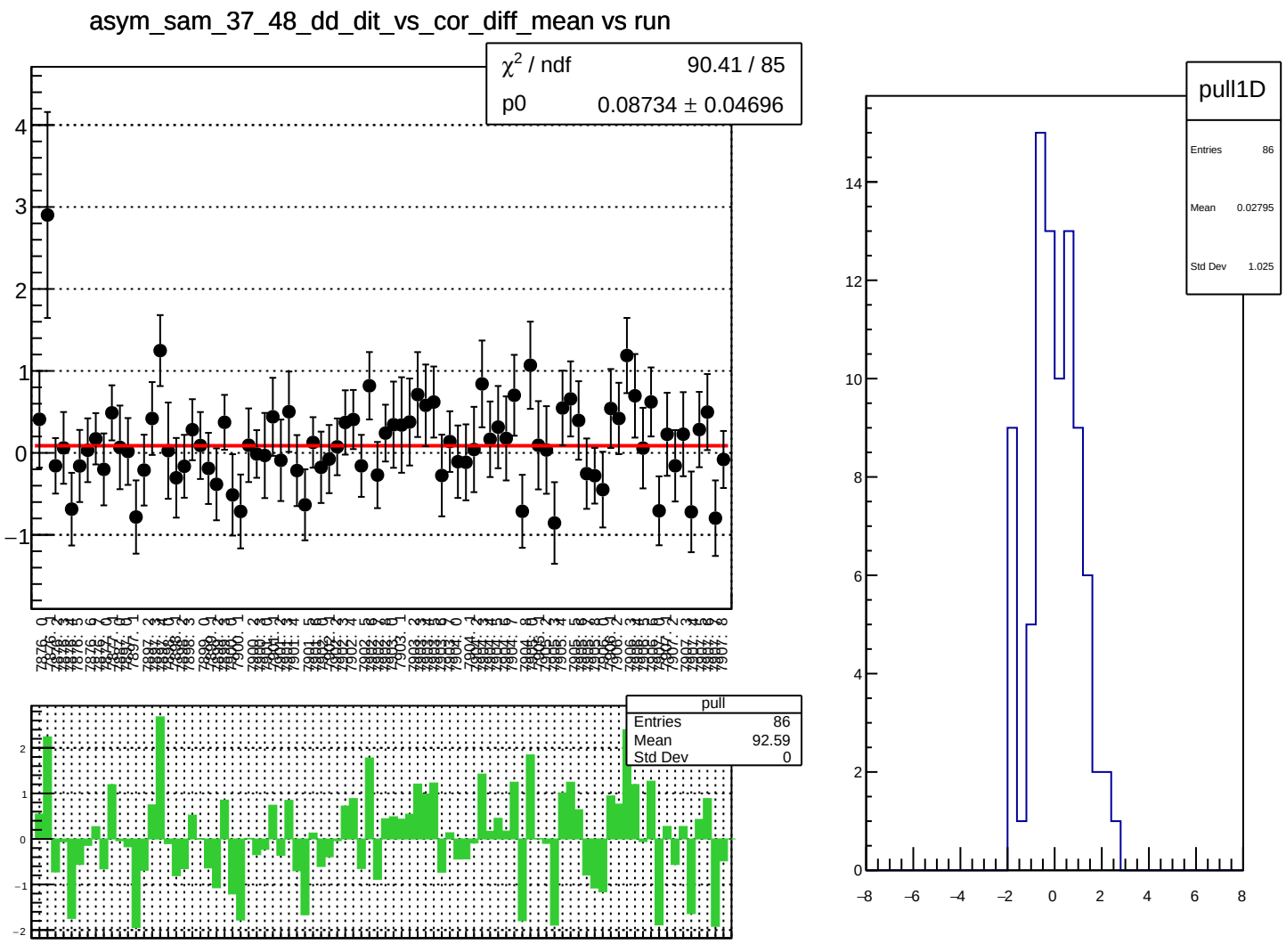

pull1D
Entries 86
Mean 0.01032
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

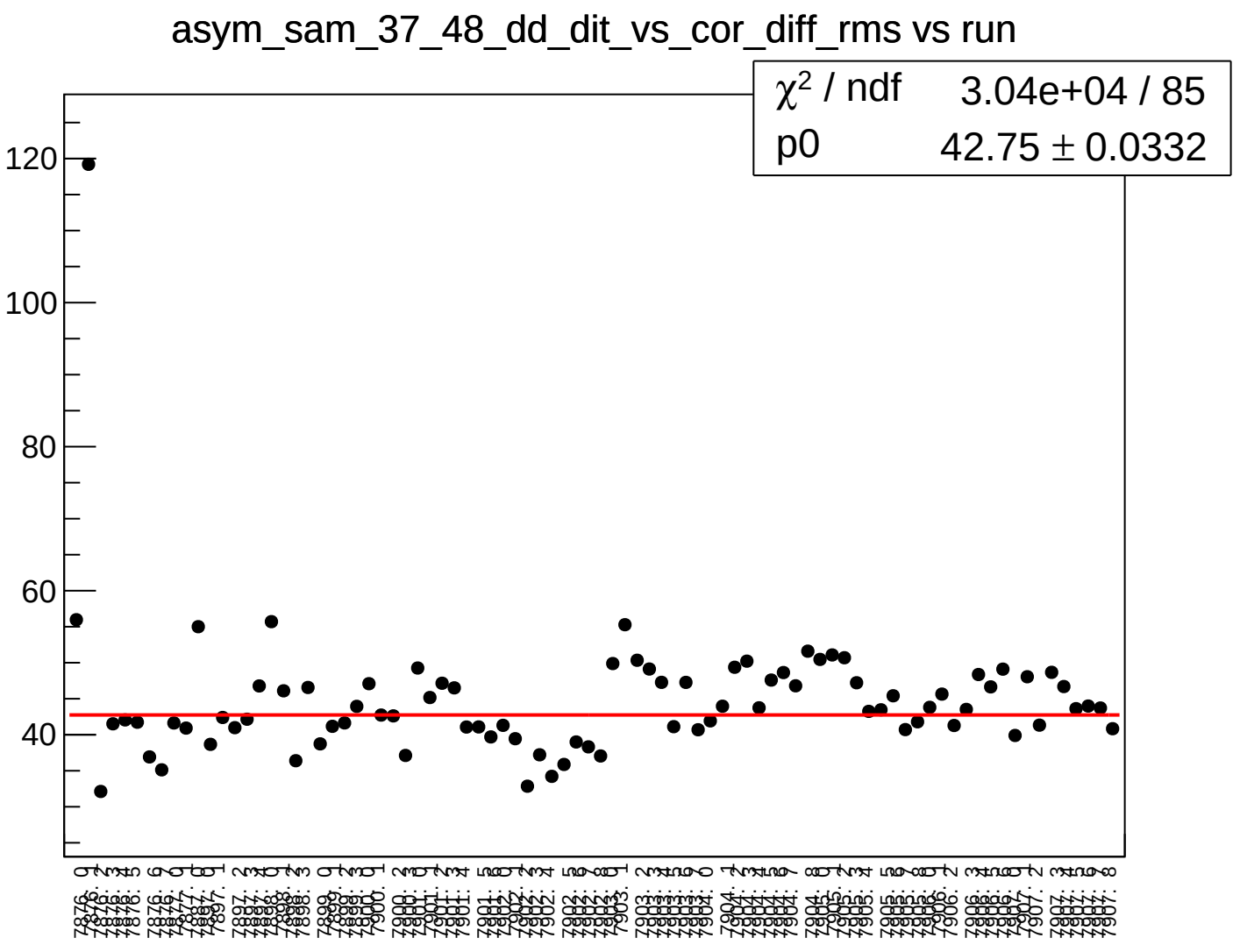

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.932e+04 / 85
p0 370.8 ± 0.2871
700
600
500
400
300

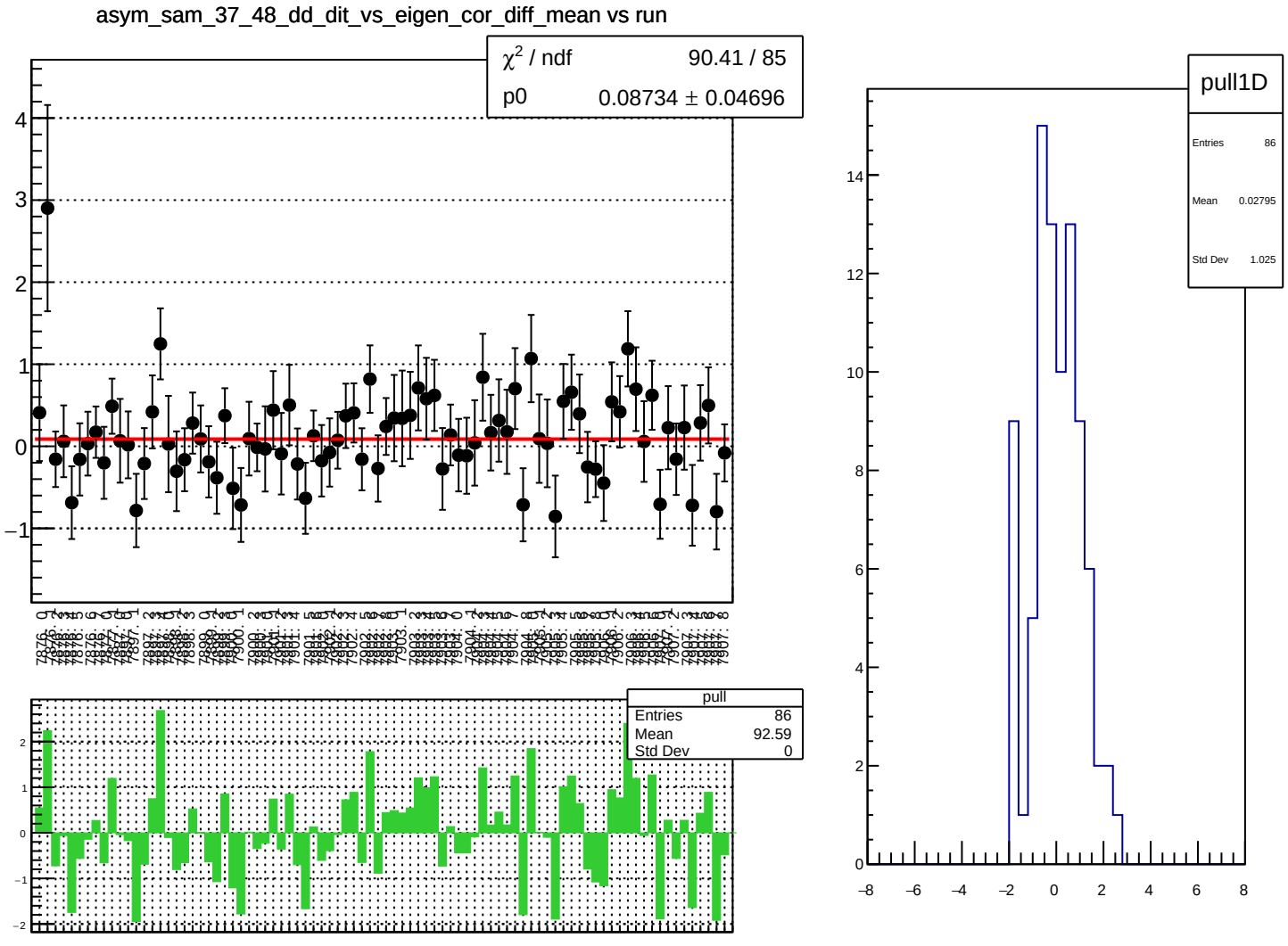

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 66.54 / 85
p0 2.471e−14 ± 7.537e−14
pull
Entries 86
Mean 20.85
Std Dev 16.65

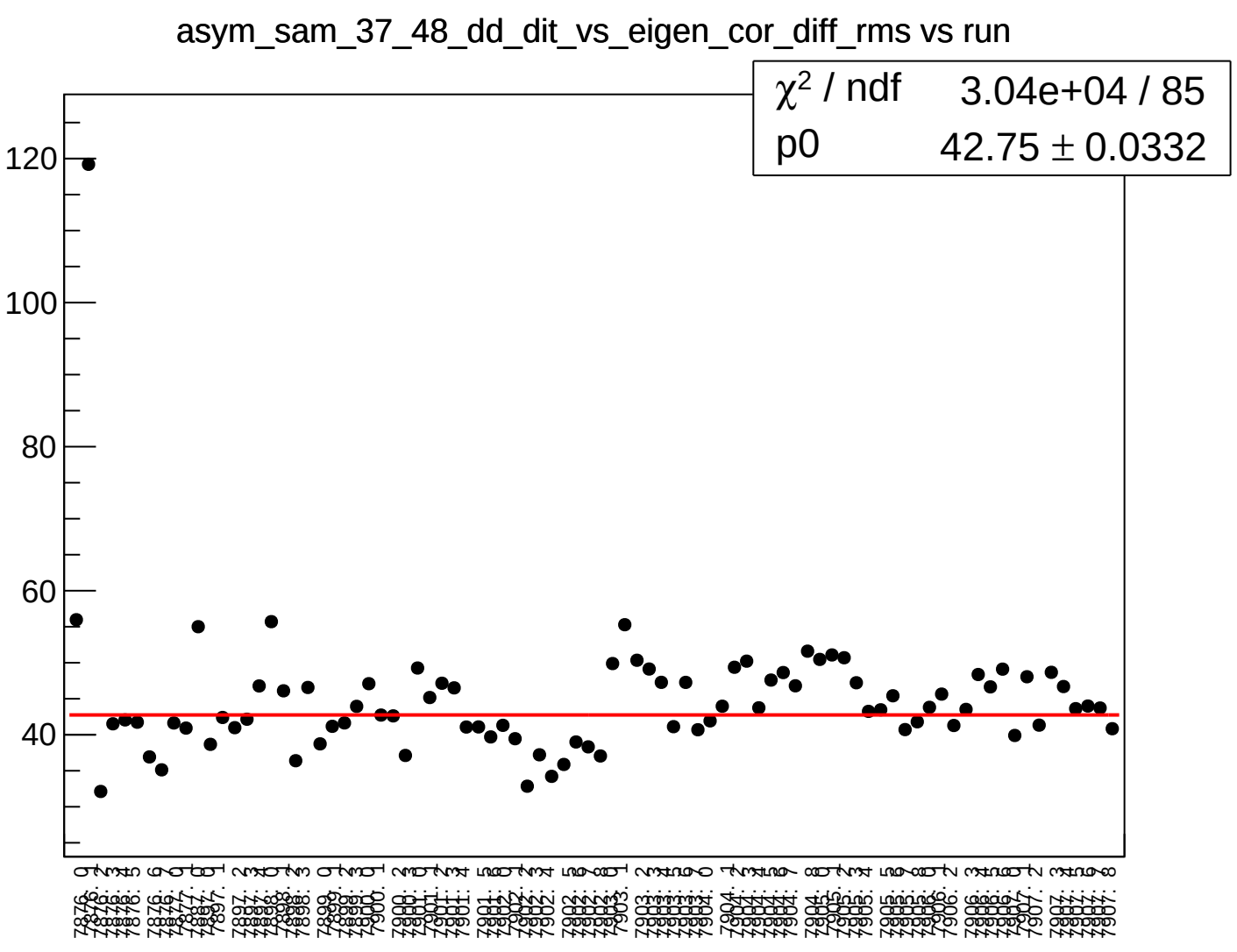

pull1D
Entries 86
Mean 0.06127
Std Dev 0.8775

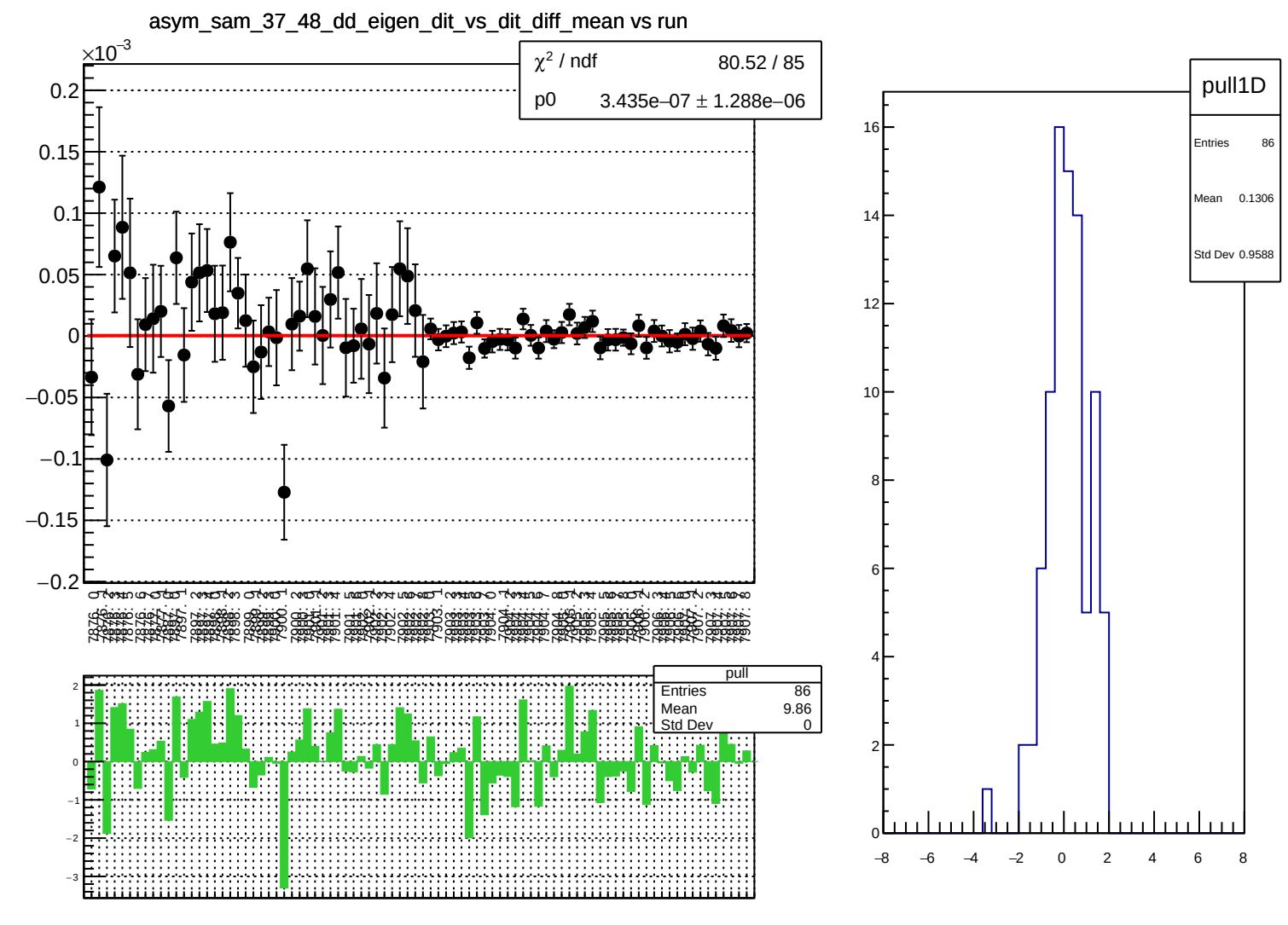

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.434e+05 / 85
p0 4.599e−11 ± 5.33e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

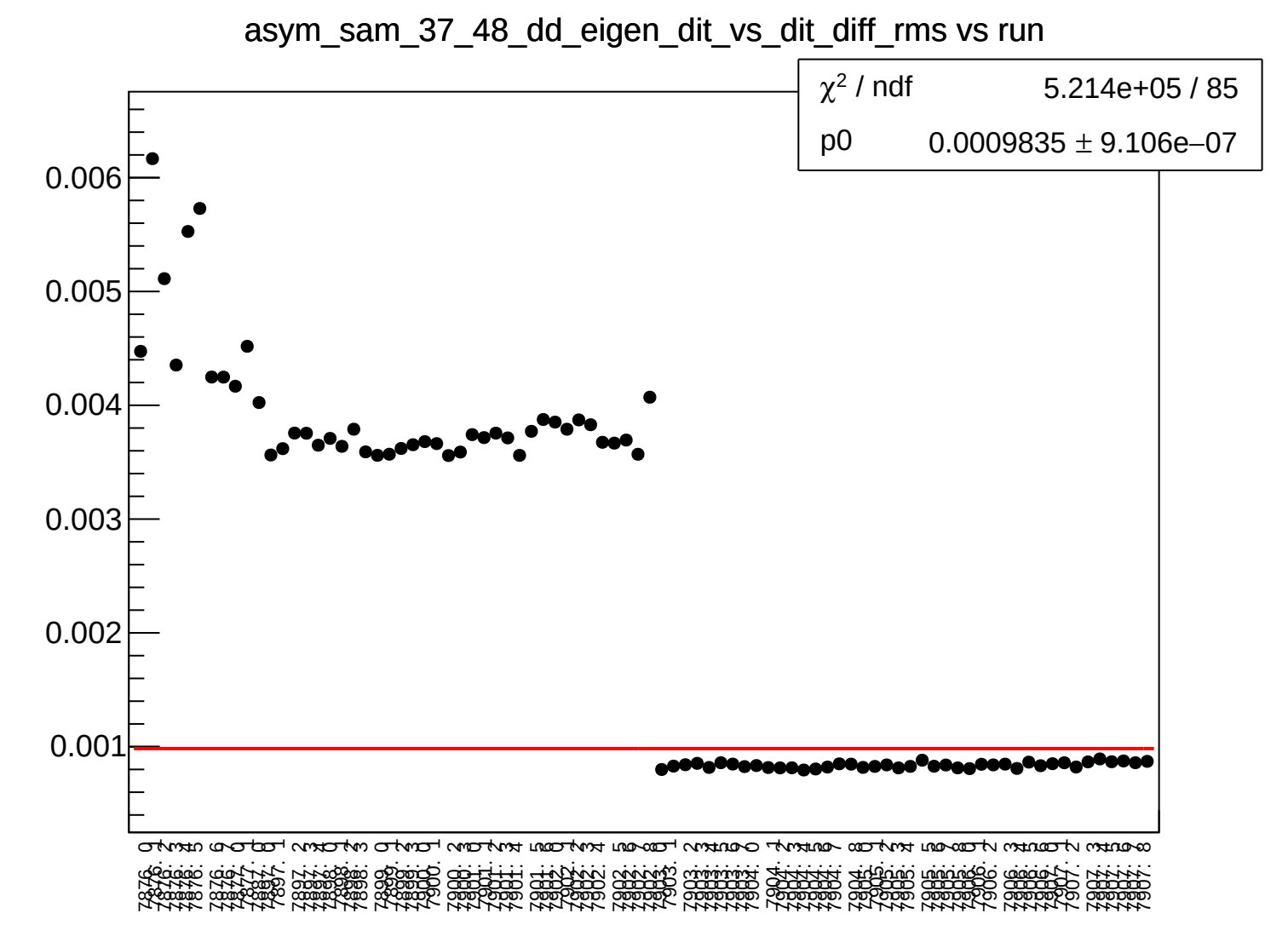

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.41 / 85
p0 0.08734 ± 0.04696
pull
Entries 86
Mean 92.59
Std Dev 0
pull1D
Entries 86
Mean 0.02795
Std Dev 1.025

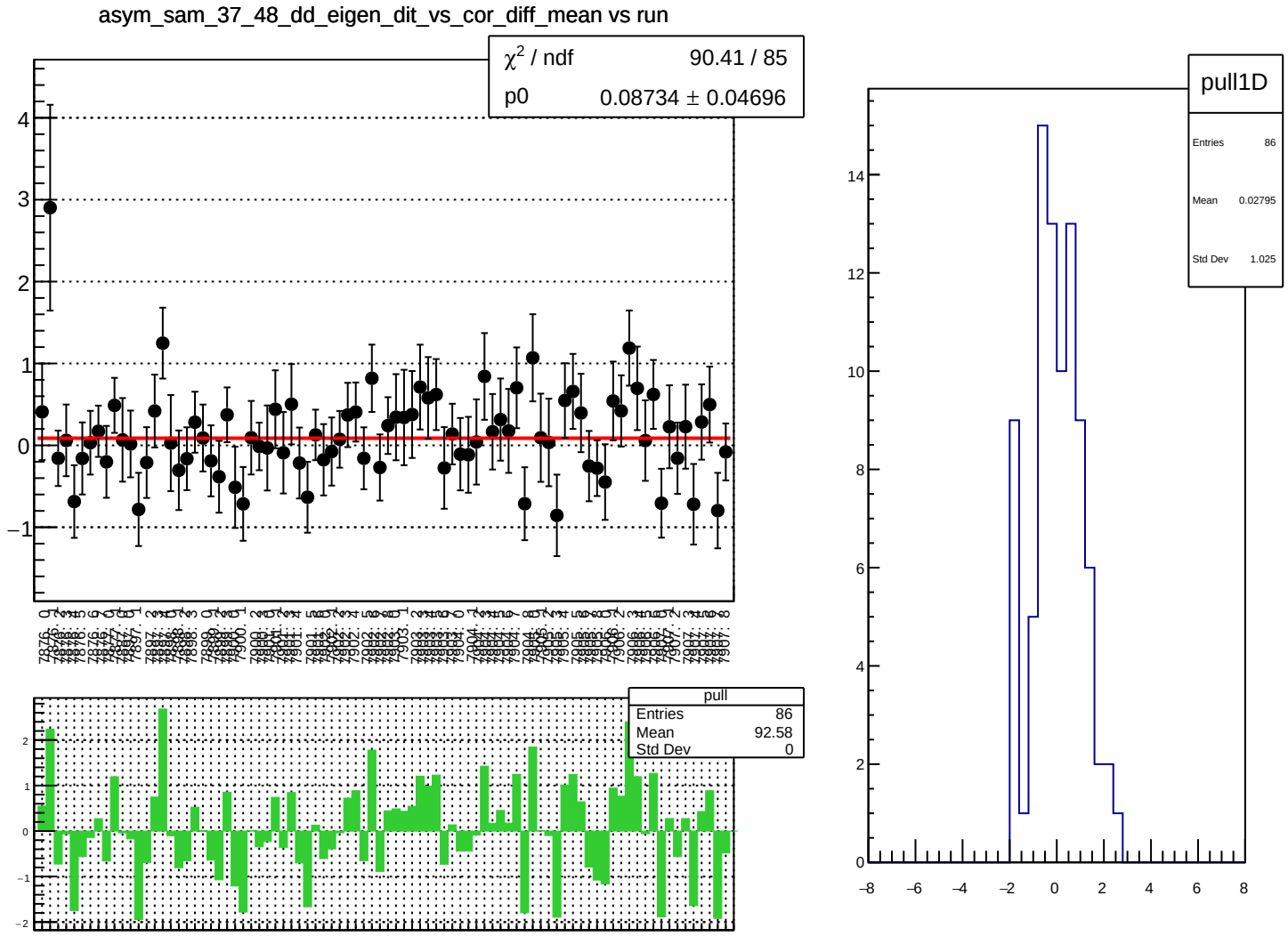

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 85
p0 42.75 ± 0.0332
120
100
80
60
40

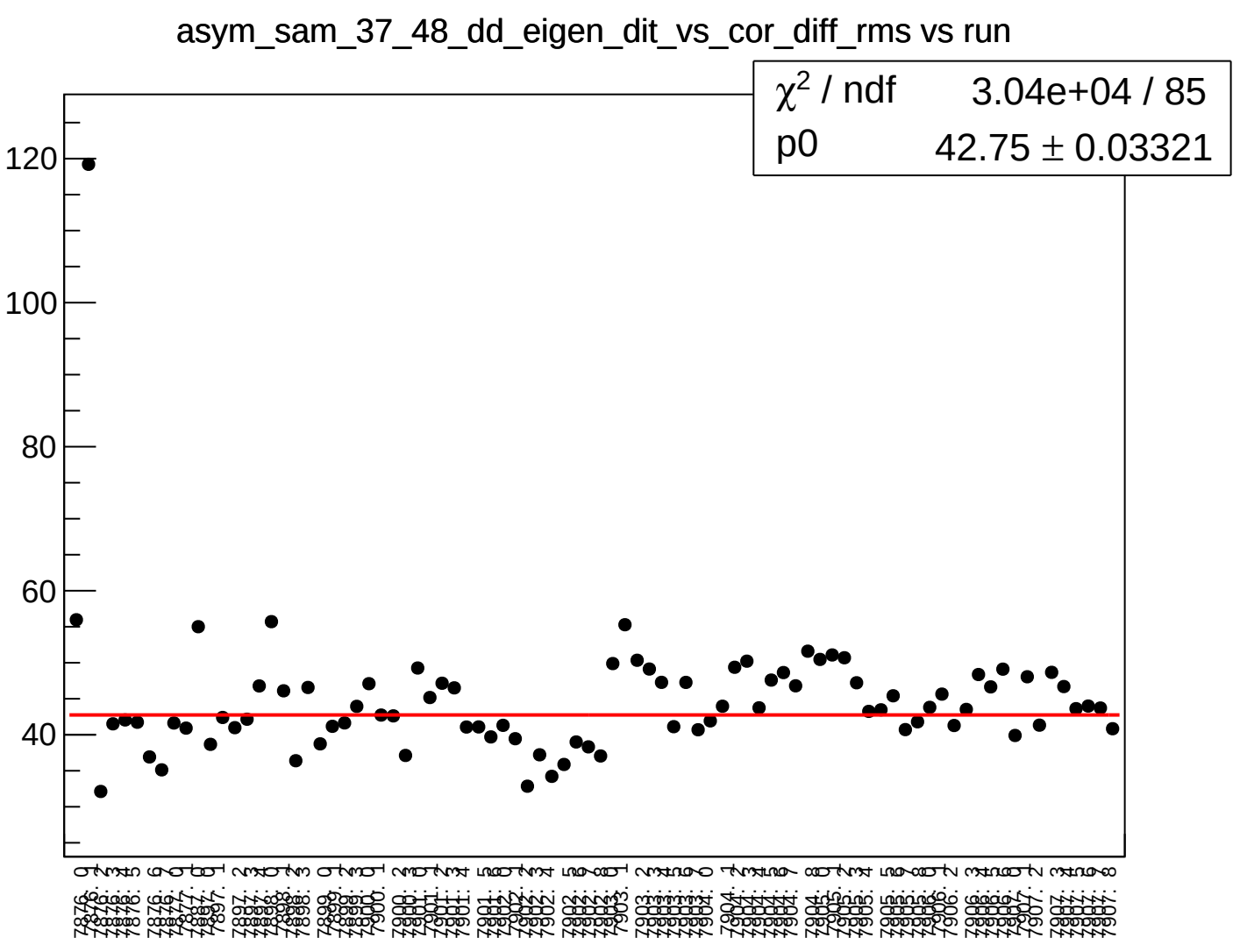

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.41 / 85
p0 0.08734 ± 0.04696
pull
Entries 86
Mean 92.59
Std Dev 0
pull1D
Entries 86
Mean 0.02795
Std Dev 1.025

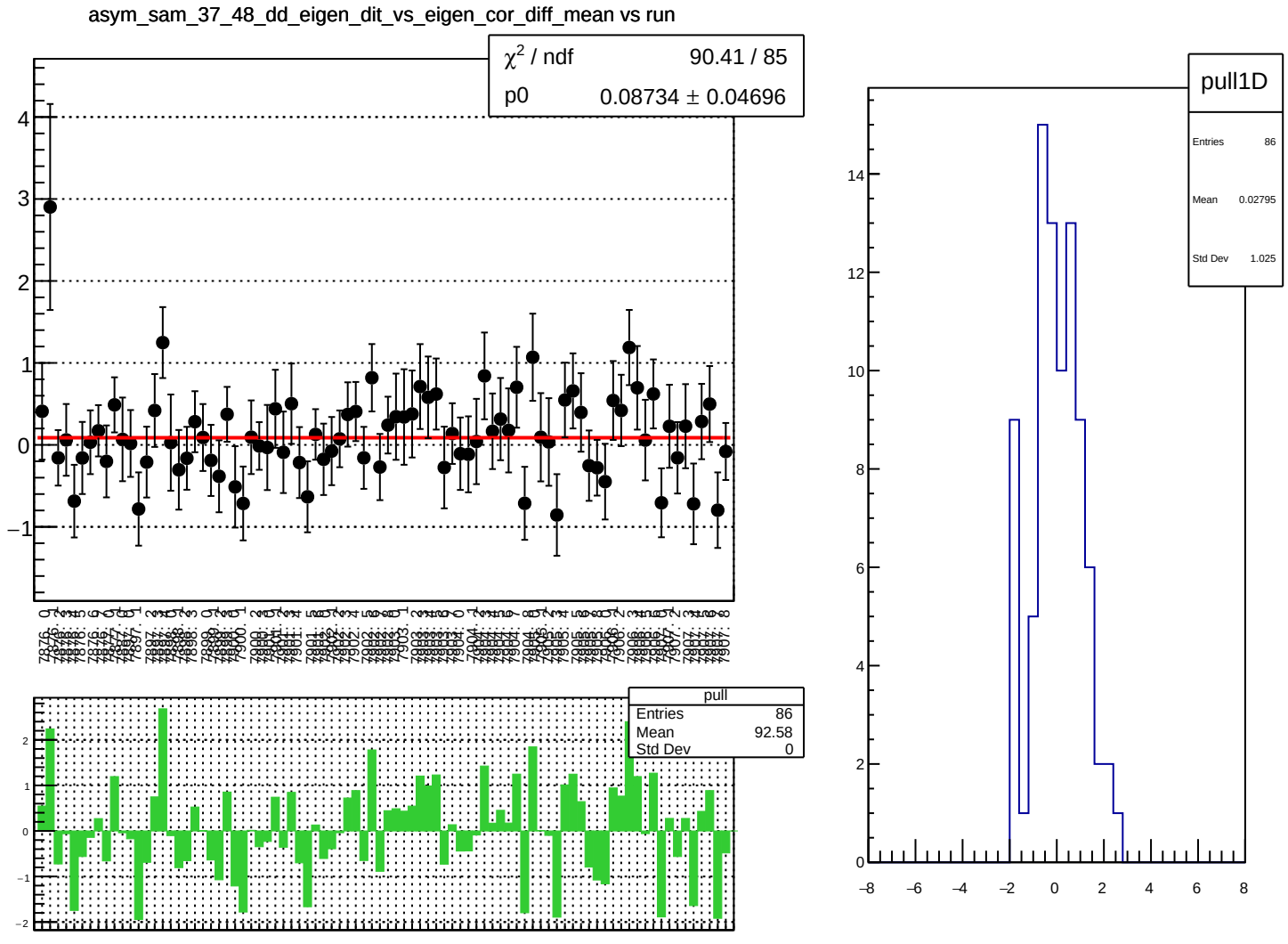

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 85
p0 42.75 ± 0.0332
120
100
80
60
40

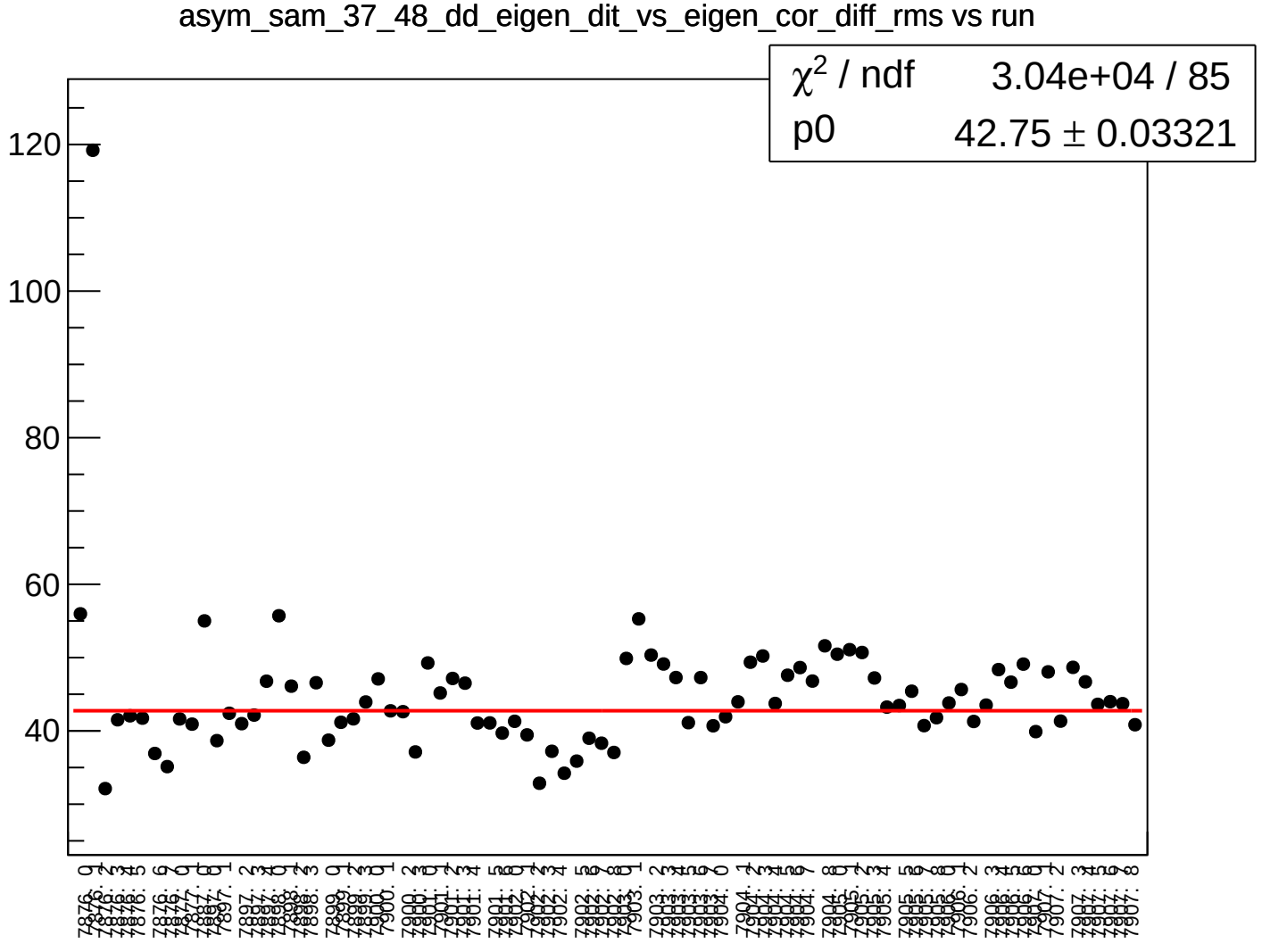

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.52 / 85
p0 3.435e−07 ± 1.288e−06
pull
Entries 86
Mean 9.86
Std Dev 0
pull1D
Entries 86
Mean 0.1306
Std Dev 0.9588

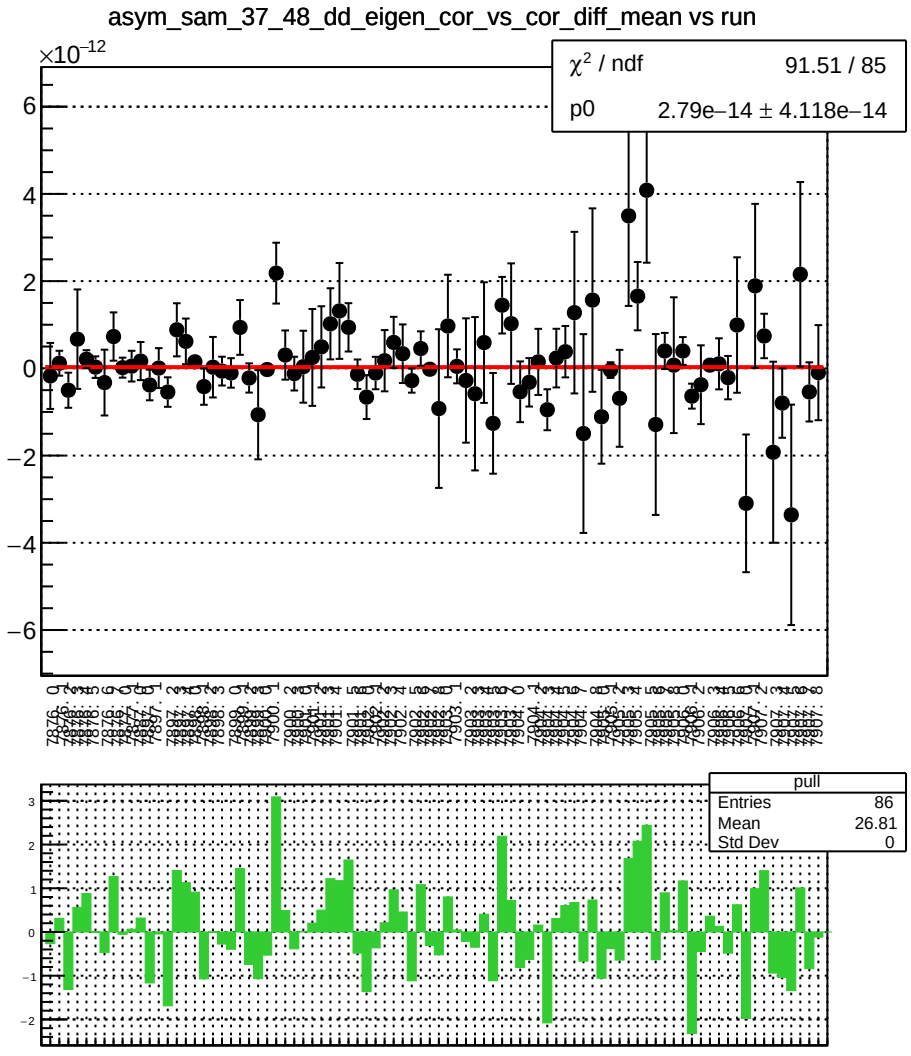

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.214e+05 / 85
p0 0.0009835 ± 9.106e−07
0.006
0.005
0.004
0.003
0.002
0.001

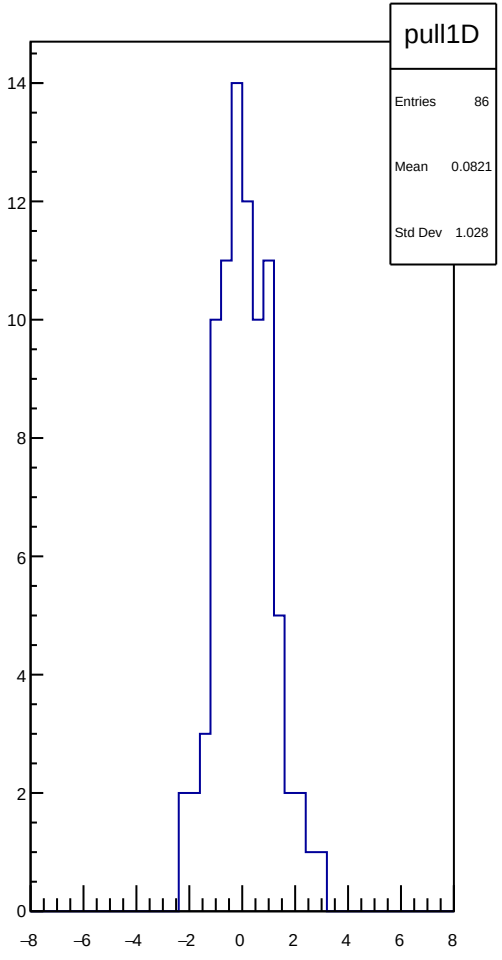

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.41 / 85
p0 0.08734 ± 0.04696
pull
Entries 86
Mean 92.58
Std Dev 0
pull1D
Entries 86
Mean 0.02795
Std Dev 1.025

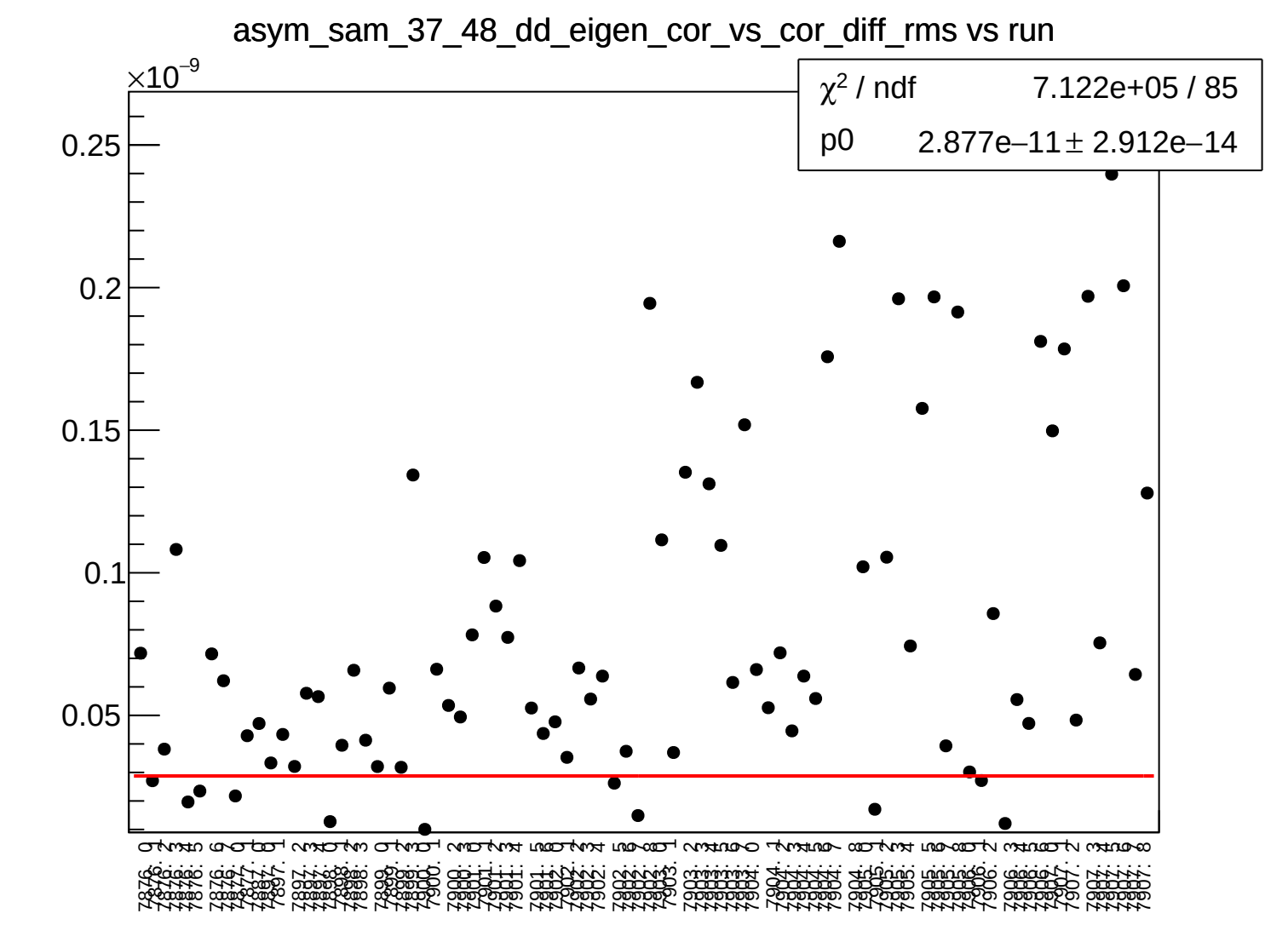

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 85
p0 42.75 ± 0.03321
120
100
80
60
40

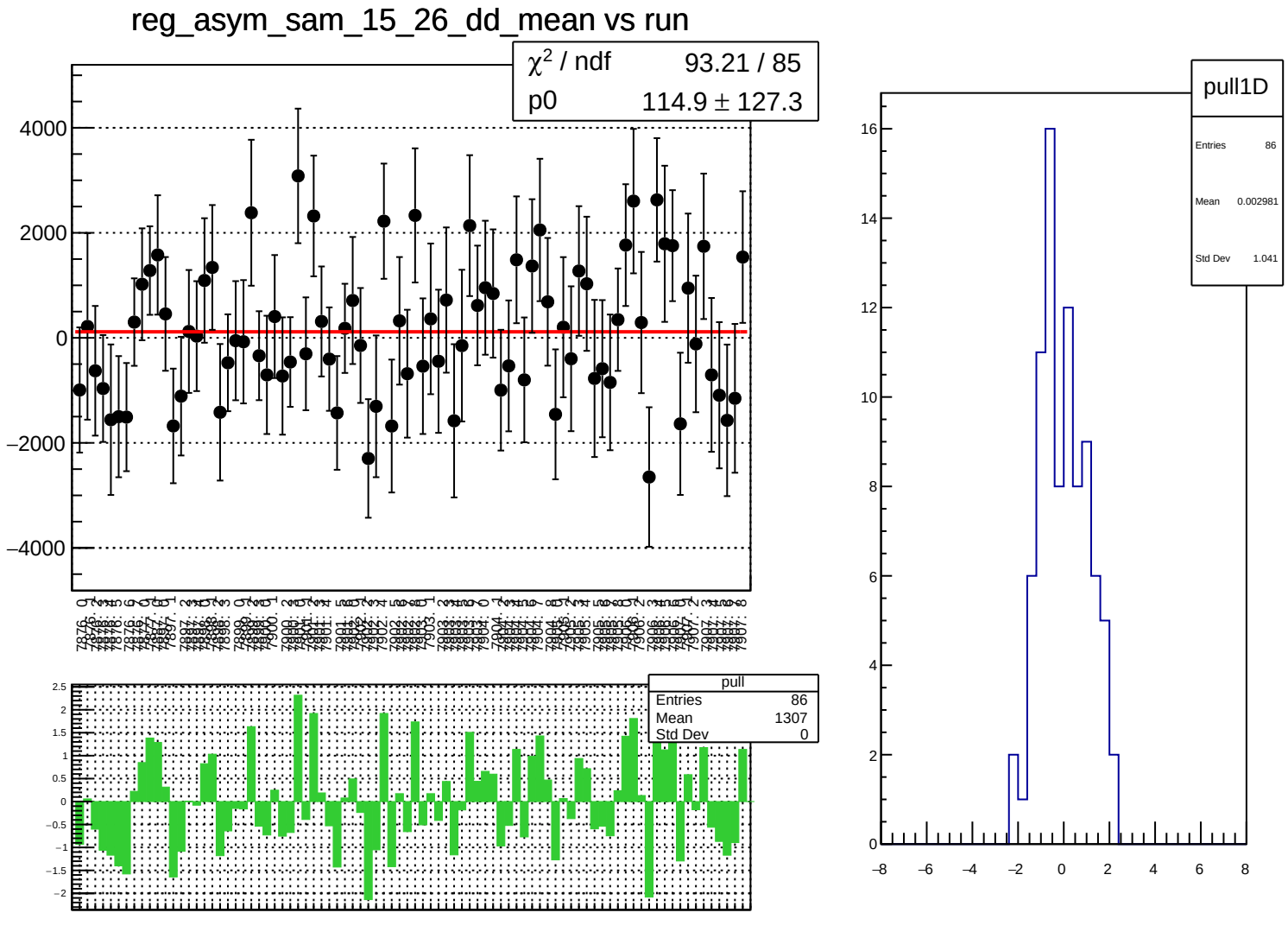

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.41 / 85
p0 0.08734 ± 0.04696
pull
Entries 86
Mean 92.58
Std Dev 0
pull1D
Entries 86
Mean 0.02795
Std Dev 1.025

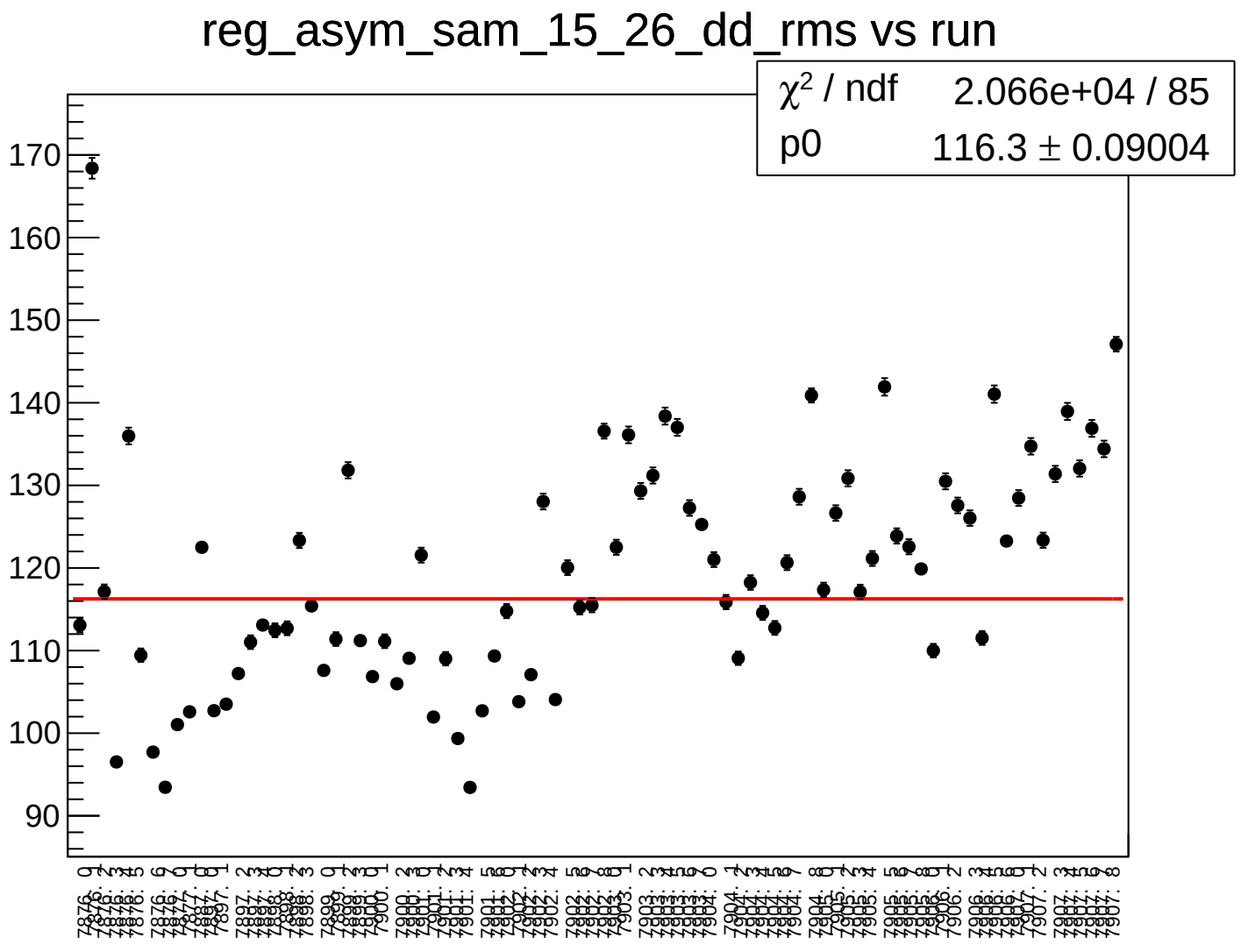

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 85
p0 42.75 ± 0.03321
120
100
80
60
40

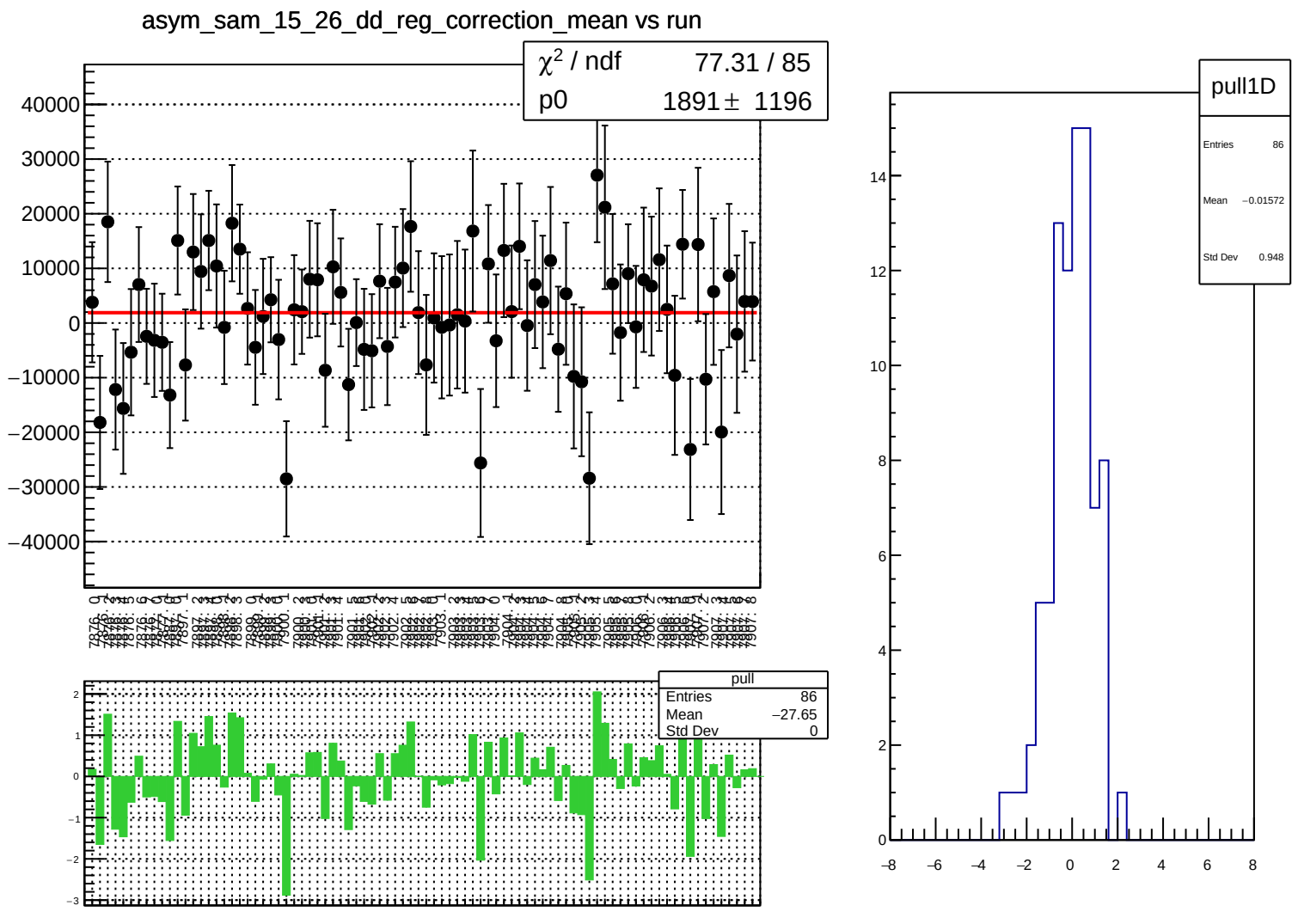

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.51 / 85
p0 2.79e−14 ± 4.118e−14
pull
Entries 86
Mean 26.81
Std Dev 0

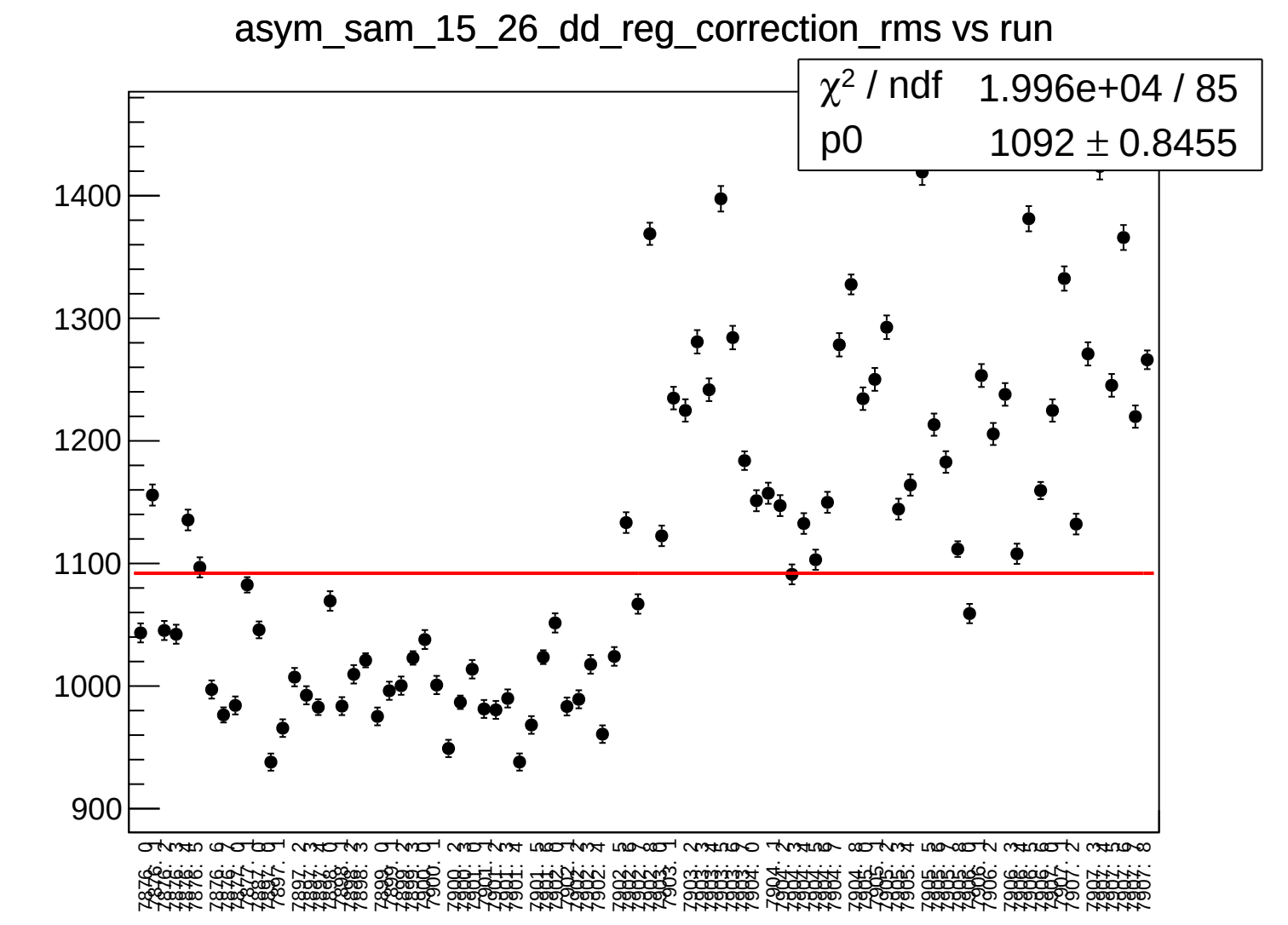

pull1D
Entries 86
Mean 0.0821
Std Dev 1.028

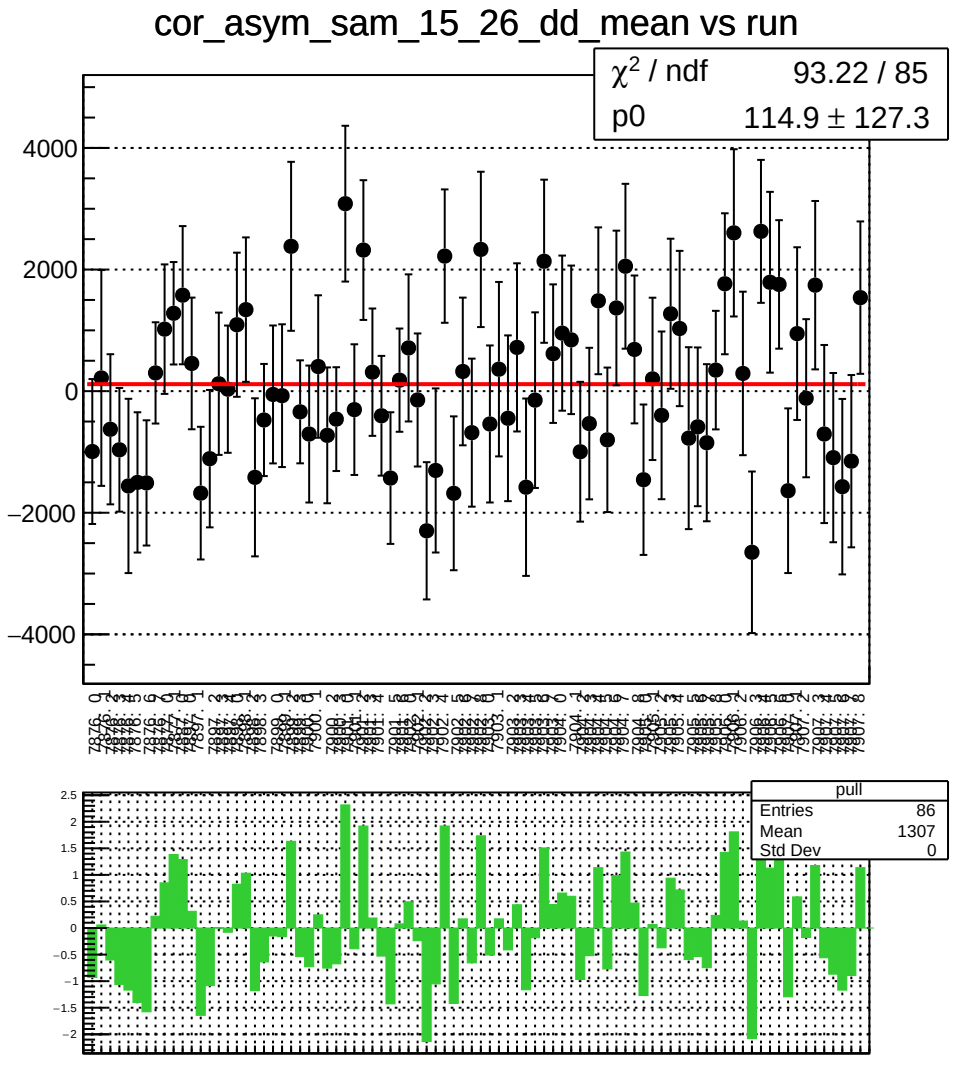

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.122e+05 / 85
p0 2.877e−11 ± 2.912e−14
0.25
0.2
0.15
0.1
0.05

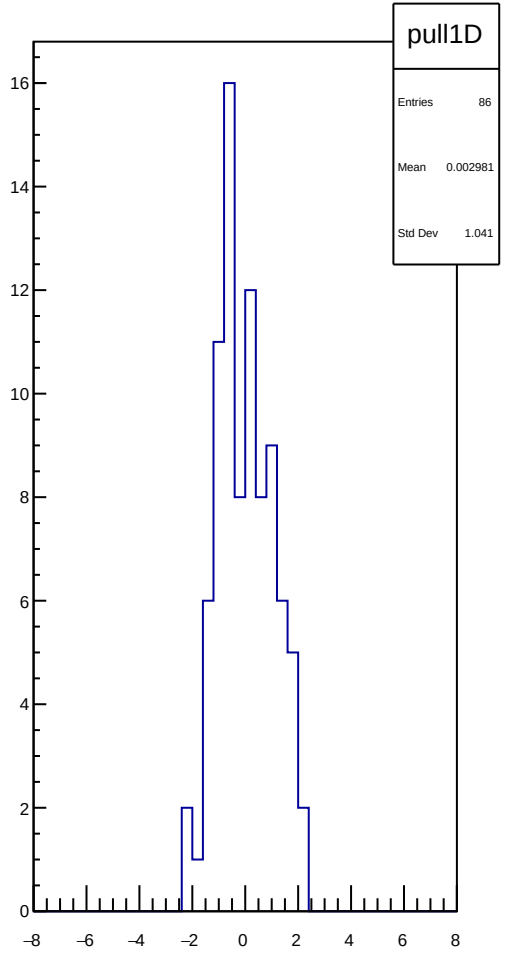

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 93.21 / 85
p0 114.9 ± 127.3
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 1307
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean 0.002981
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

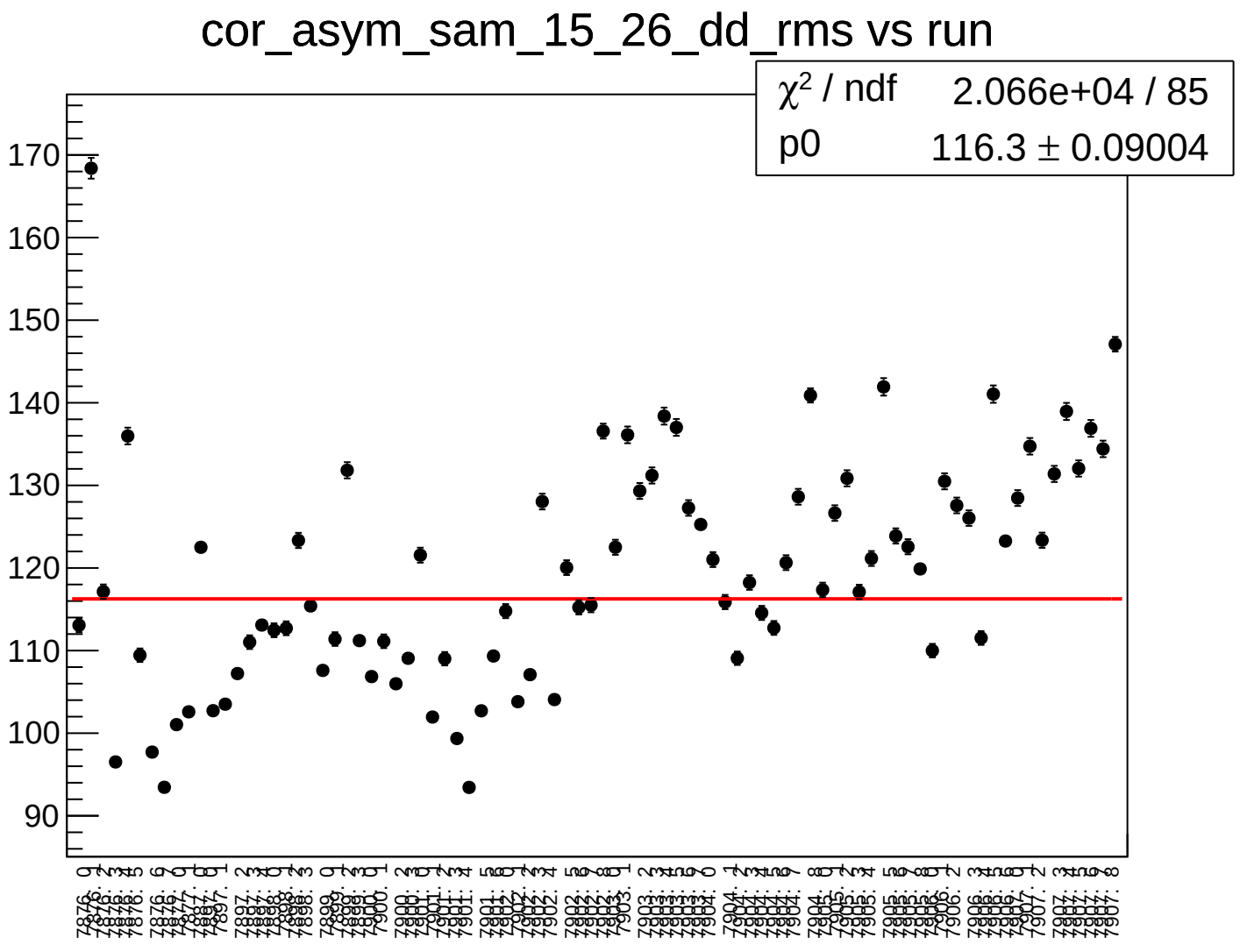

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.066e+04 / 85
p0 116.3 ± 0.09004
170
160
150
140
130
120
110
100
90

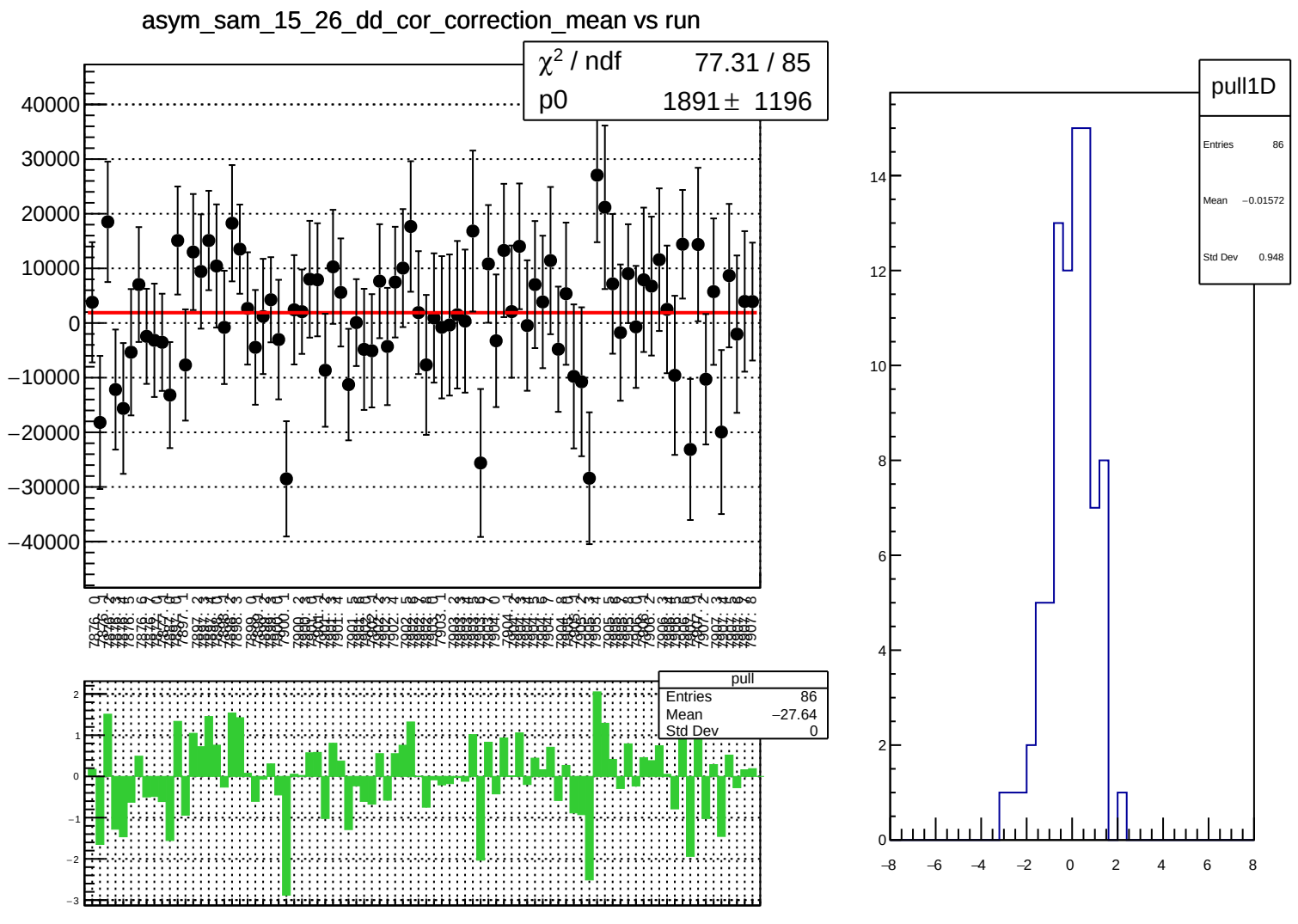

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 77.31 / 85
p0 1891 ± 1196
pull
Entries 86
Mean −27.65
Std Dev 0
pull1D
Entries 86
Mean −0.01572
Std Dev 0.948

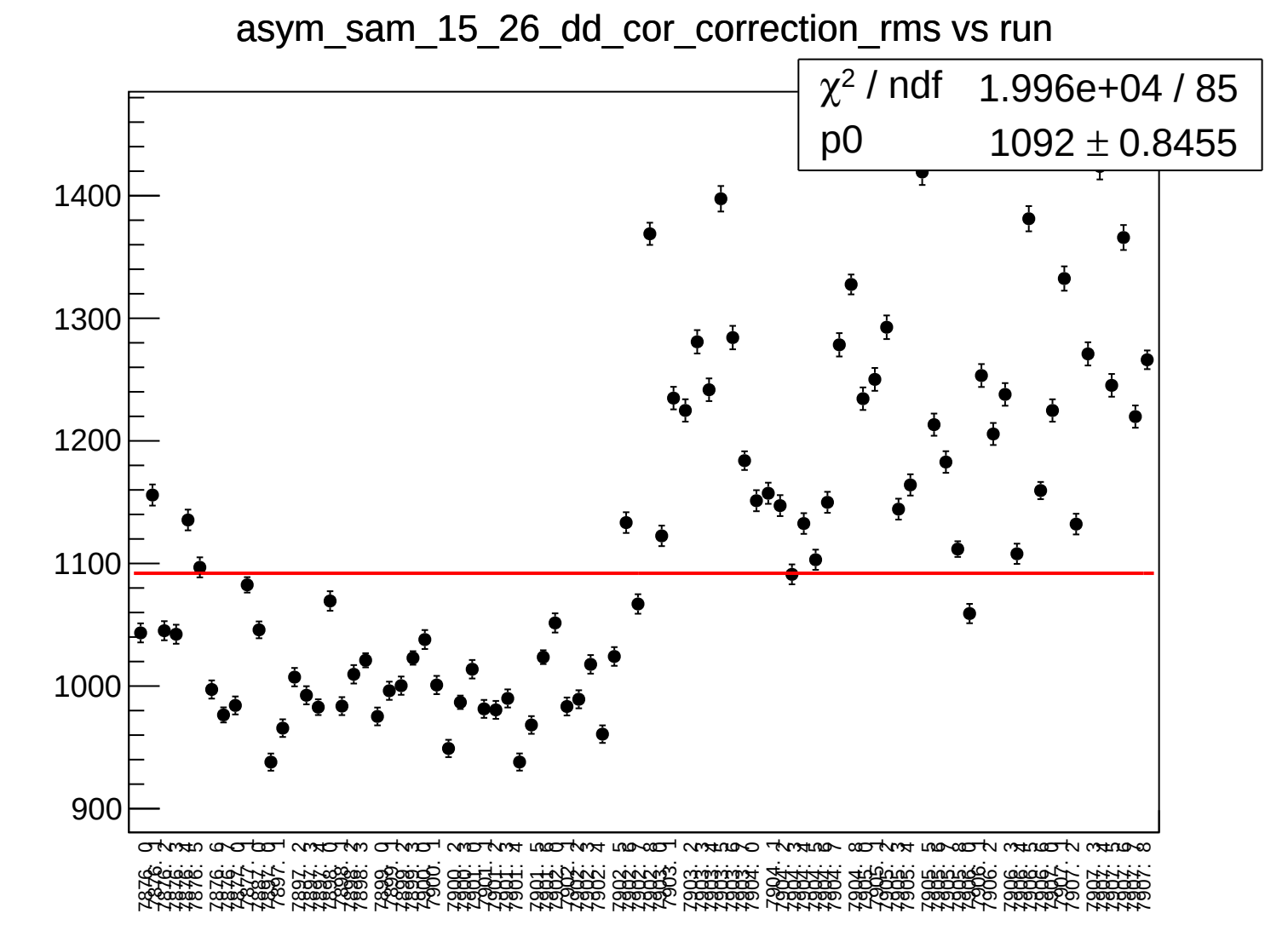

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.996e+04 / 85
p0 1092 ± 0.8455
1400
1300
1200
1100
1000
900

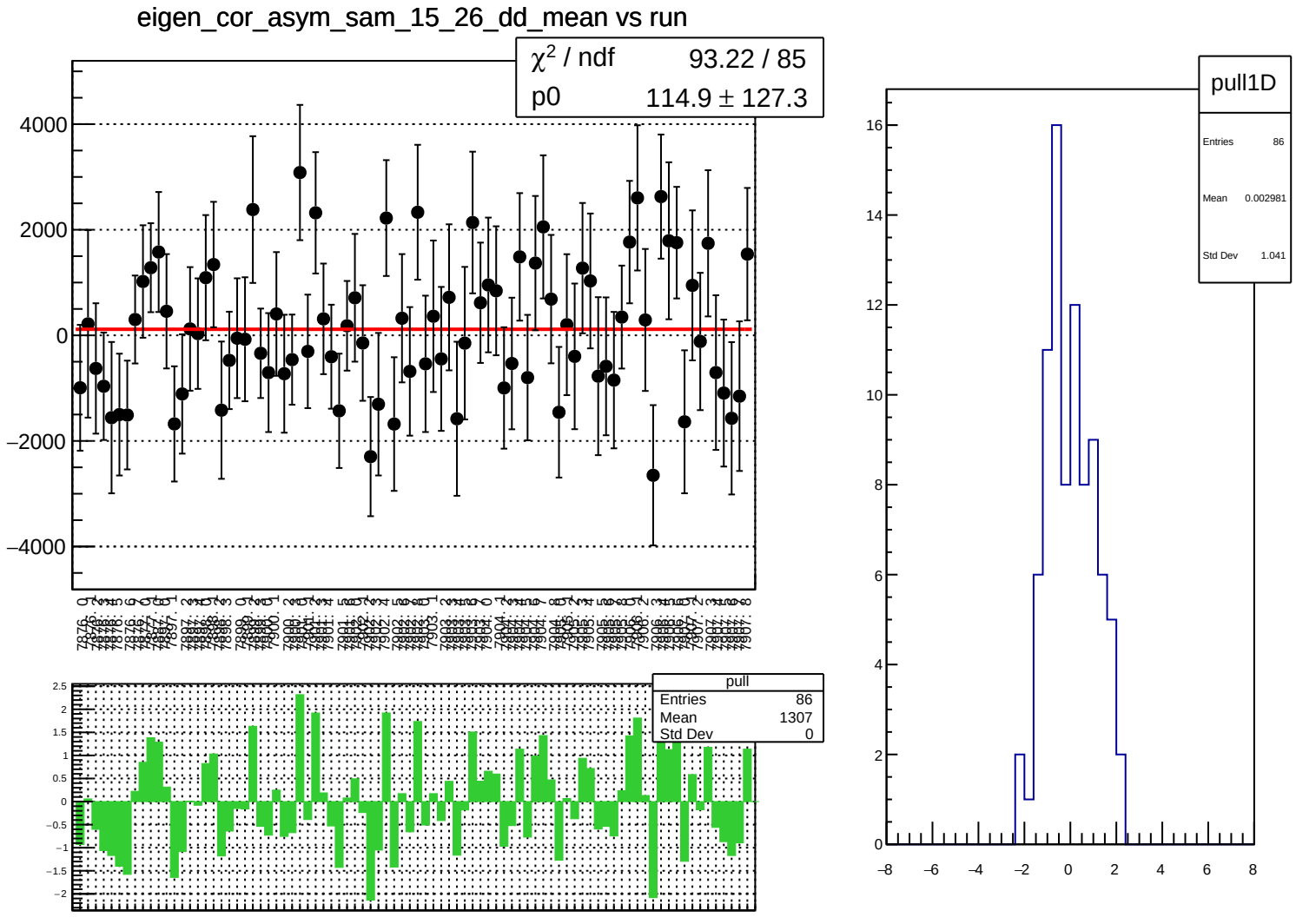

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 93.22 / 85
p0 114.9 ± 127.3
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 1307
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

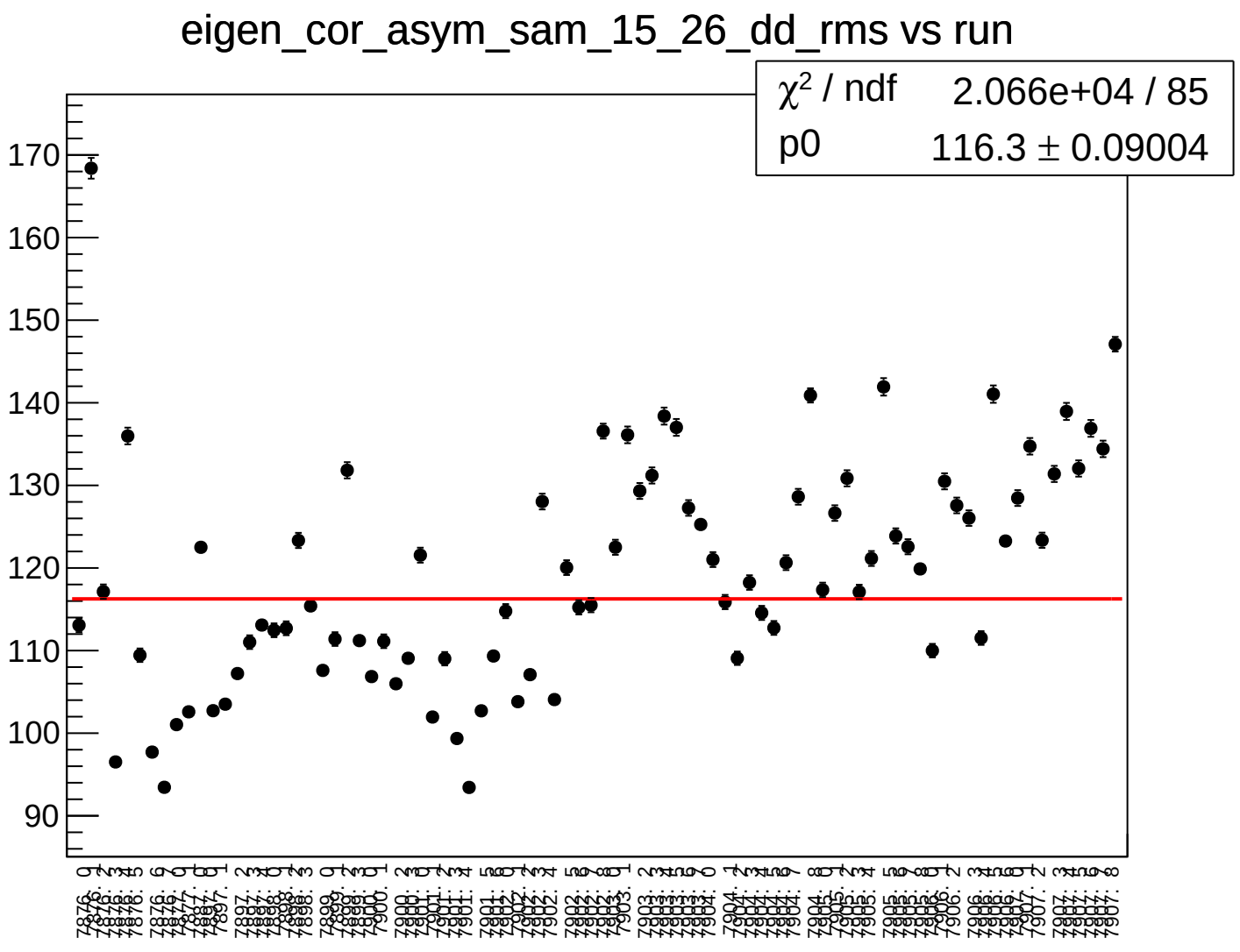

pull1D
Entries 86
Mean 0.002981
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

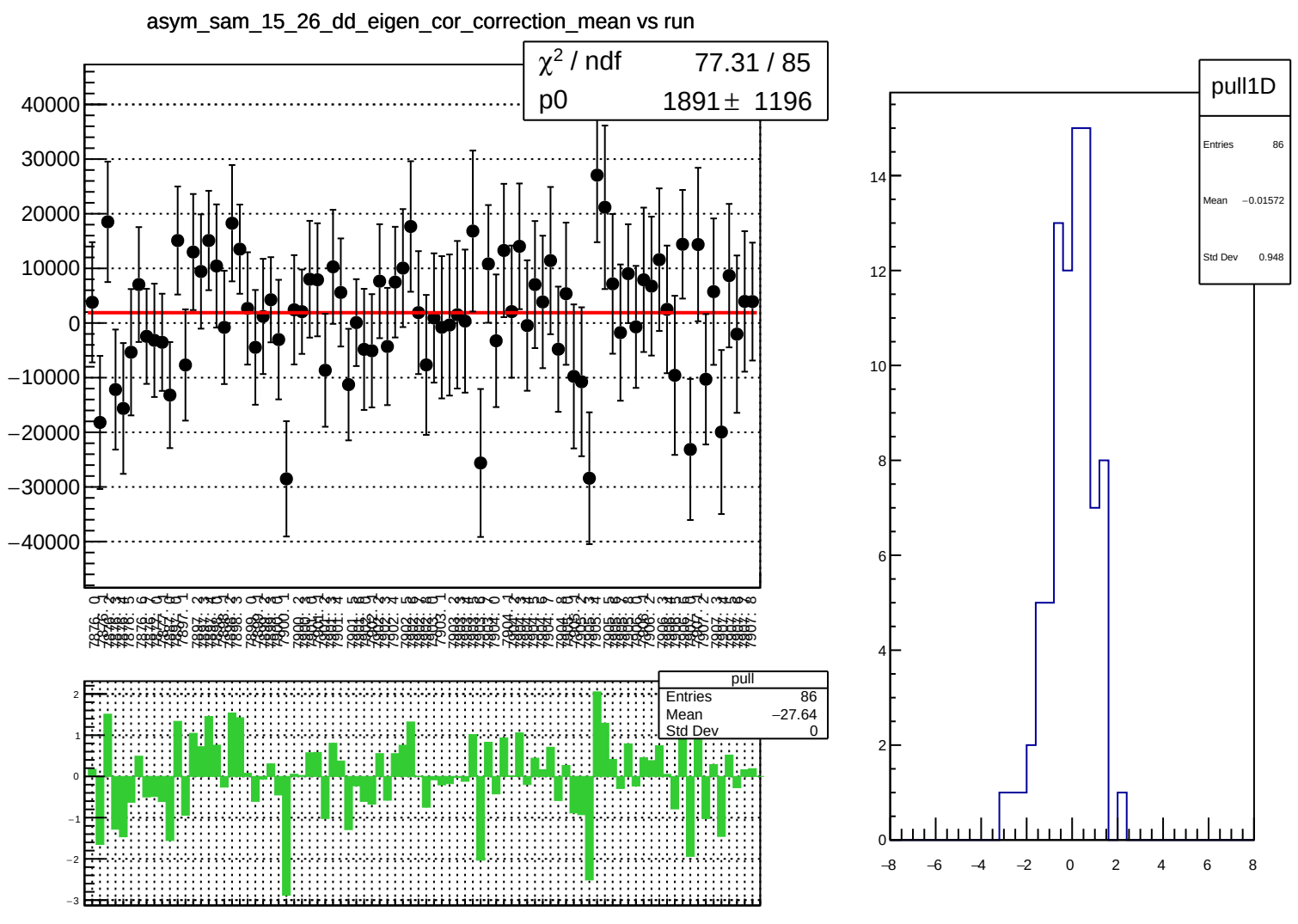

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.066e+04 / 85
p0 116.3 ± 0.09004
170
160
150
140
130
120
110
100
90

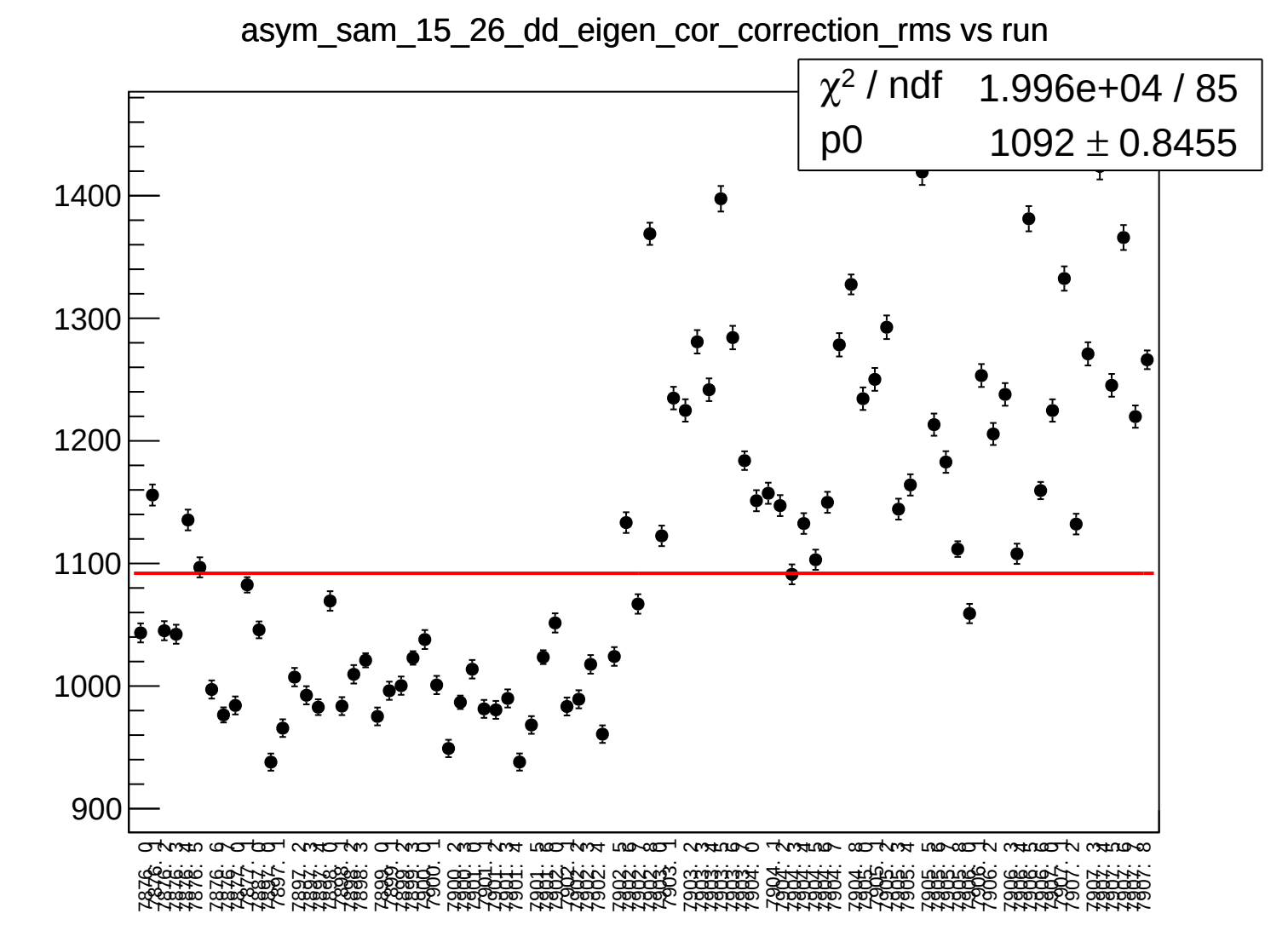

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 77.31 / 85
p0 1891 ± 1196
pull
Entries 86
Mean −27.64
Std Dev 0
pull1D
Entries 86
Mean −0.01572
Std Dev 0.948

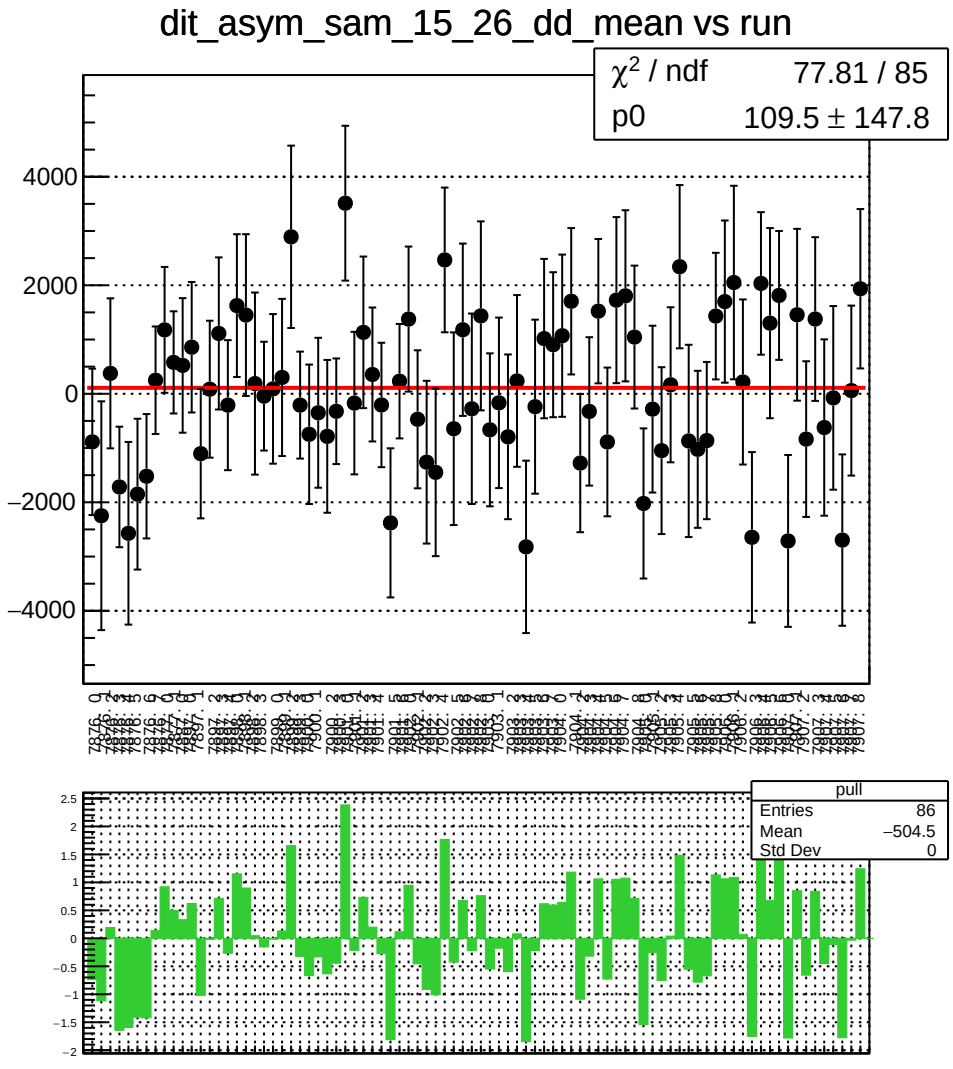

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.996e+04 / 85
p0 1092 ± 0.8455
1400
1300
1200
1100
1000
900

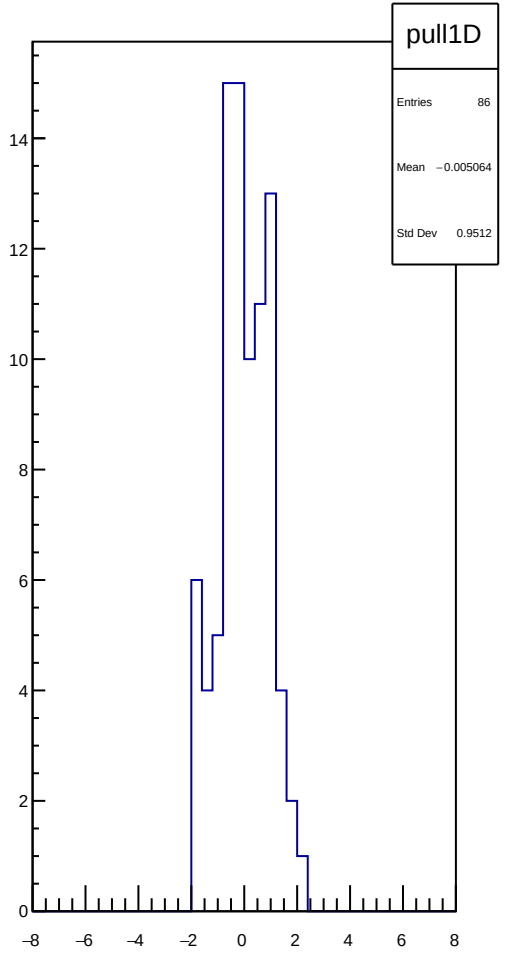

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 93.22 / 85
p0 114.9 ± 127.3
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 1307
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean 0.002981
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

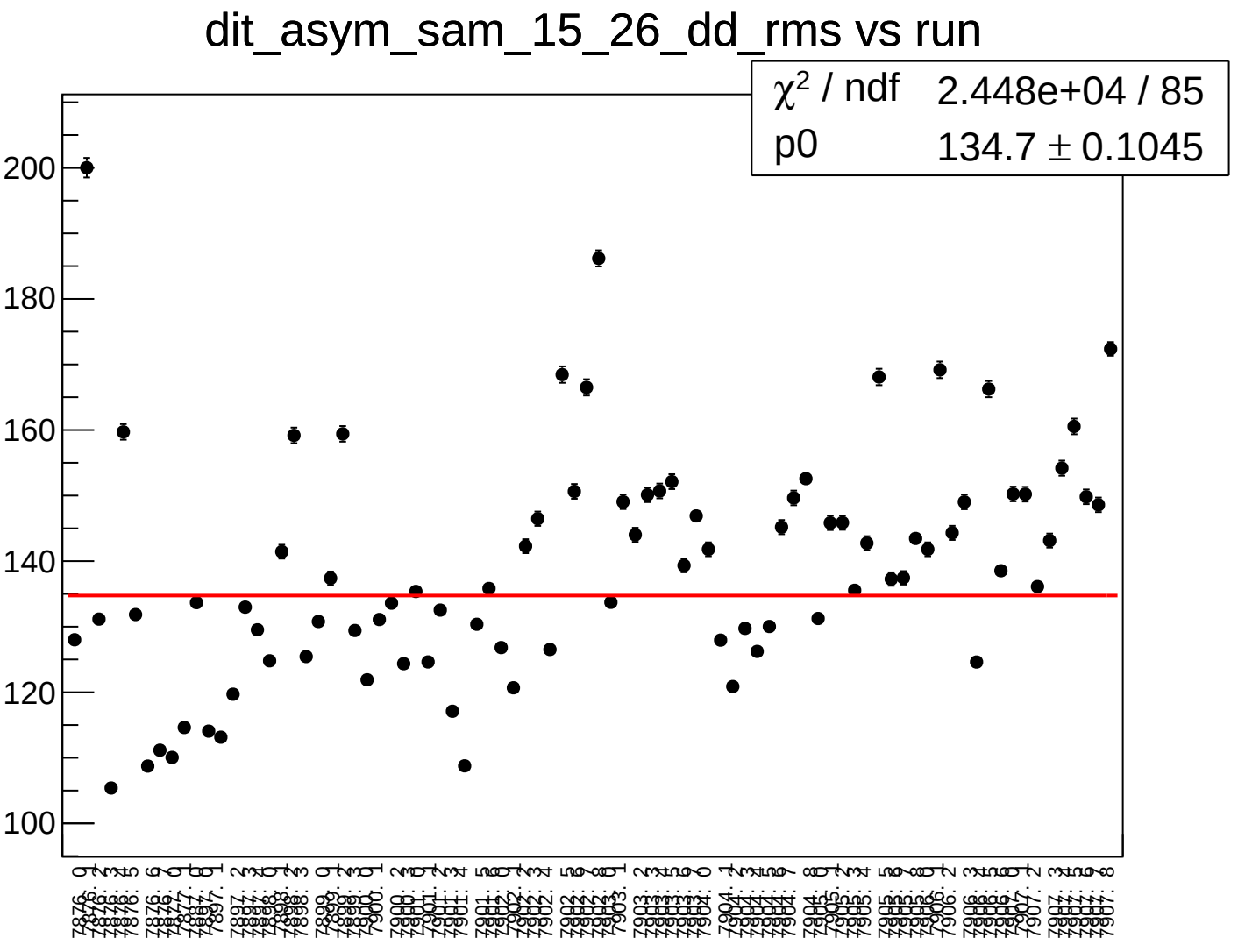

eigen_cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 2.066e+04 / 85
p0 116.3 ± 0.09004
170
160
150
140
130
120
110
100
90

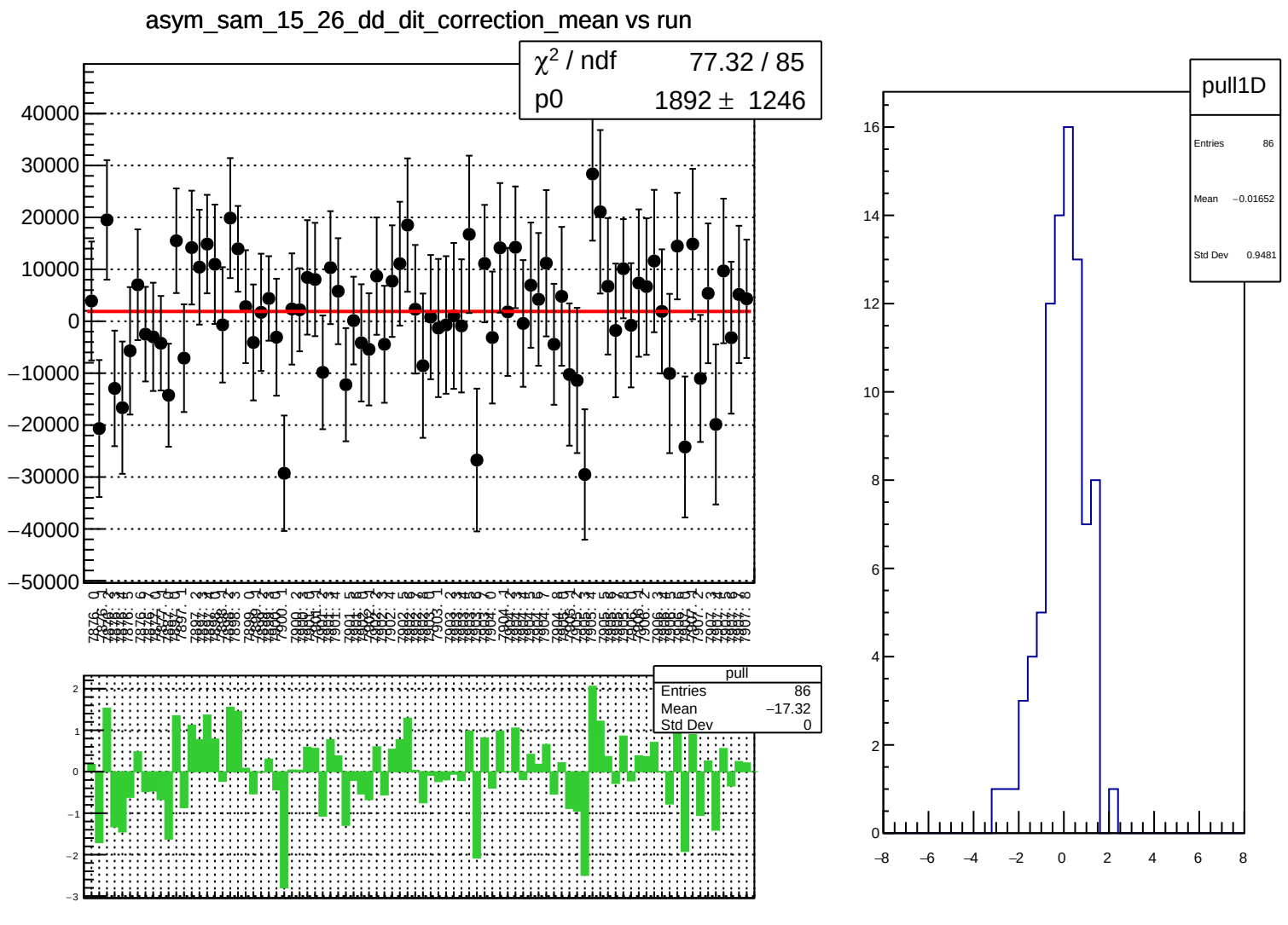

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.31 / 85
p0 1891 ± 1196
pull
Entries 86
Mean −27.64
Std Dev 0
pull1D
Entries 86
Mean −0.01572
Std Dev 0.948

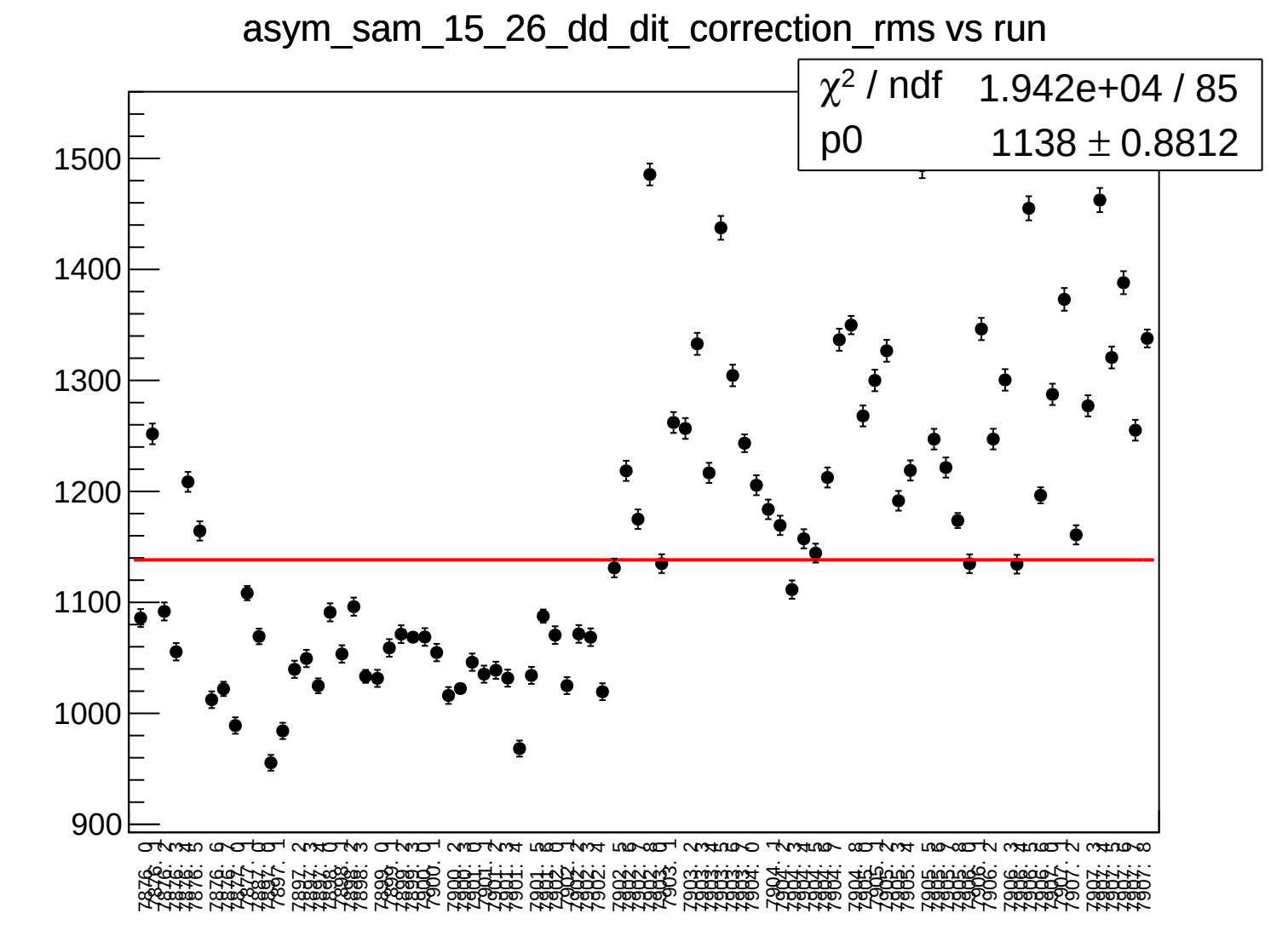

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.996e+04 / 85
p0 1092 ± 0.8455
1400
1300
1200
1100
1000
900

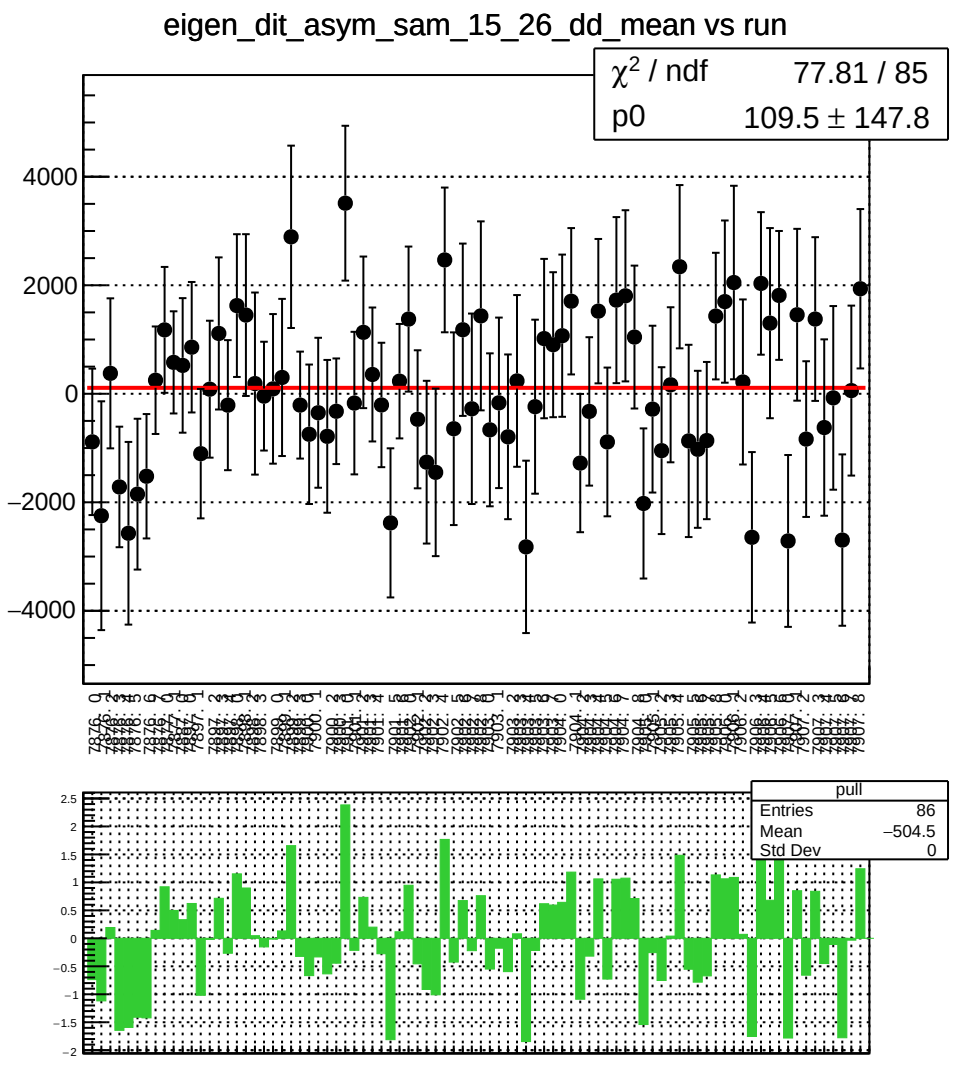

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 77.81 / 85
p0 109.5 ± 147.8
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −504.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

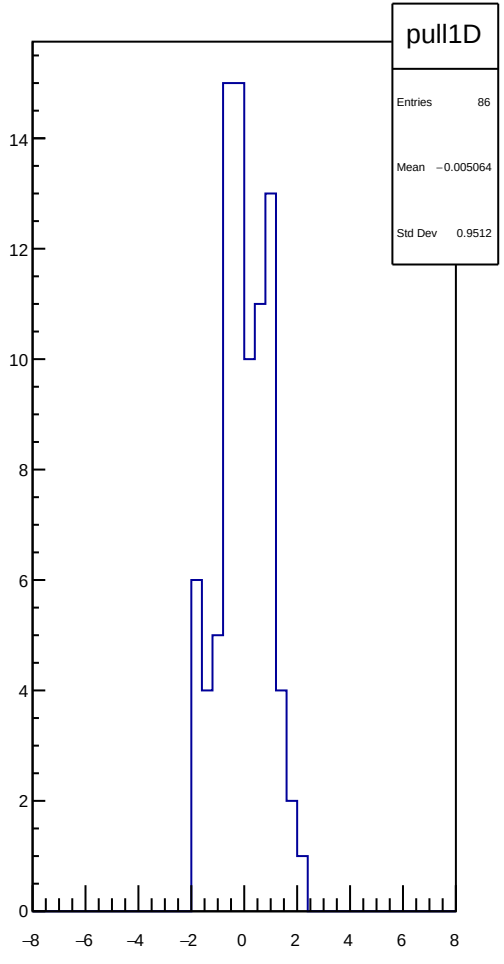

pull1D
Entries 86
Mean −0.005064
Std Dev 0.9512
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

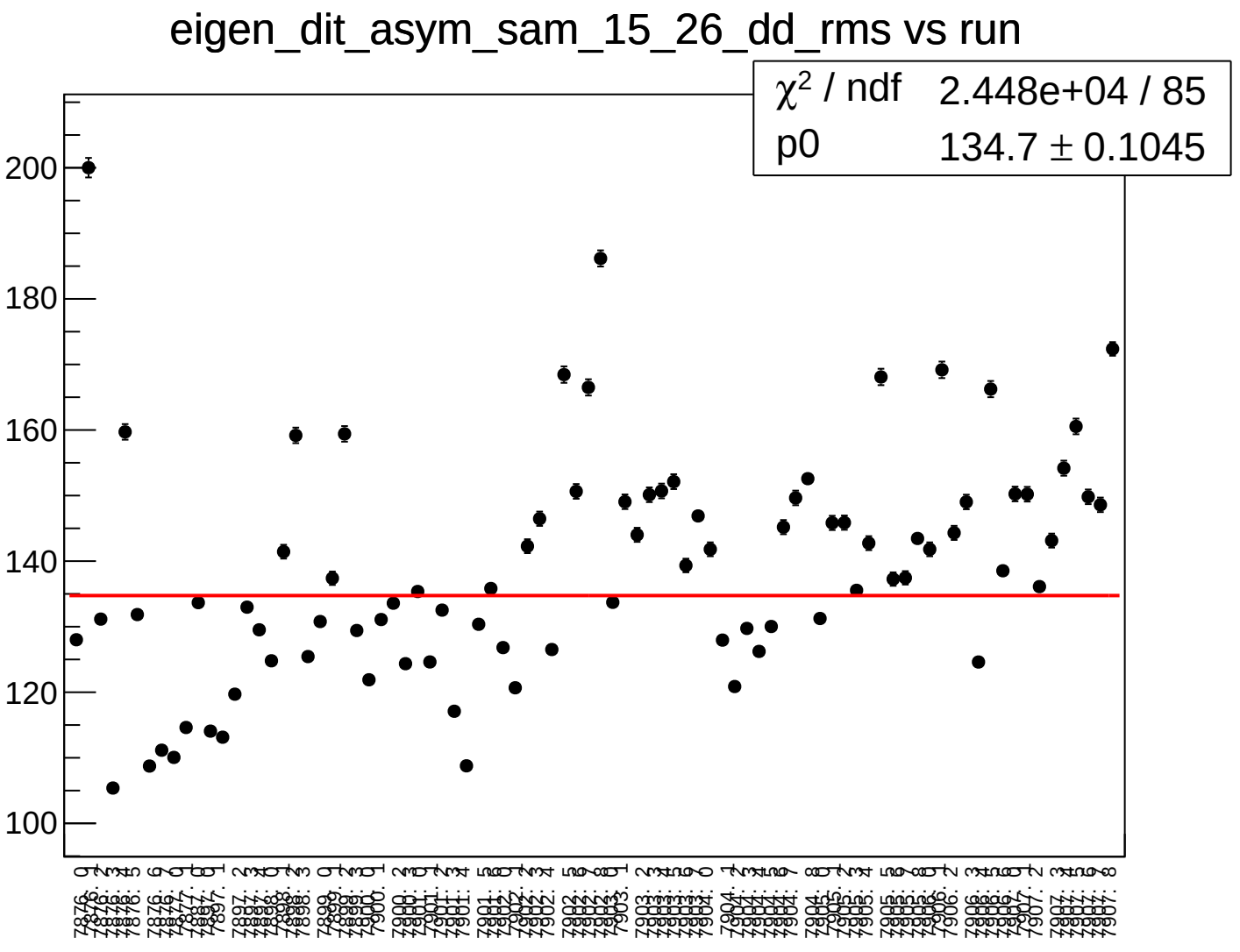

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.448e+04 / 85
p0 134.7 ± 0.1045
200
180
160
140
120
100

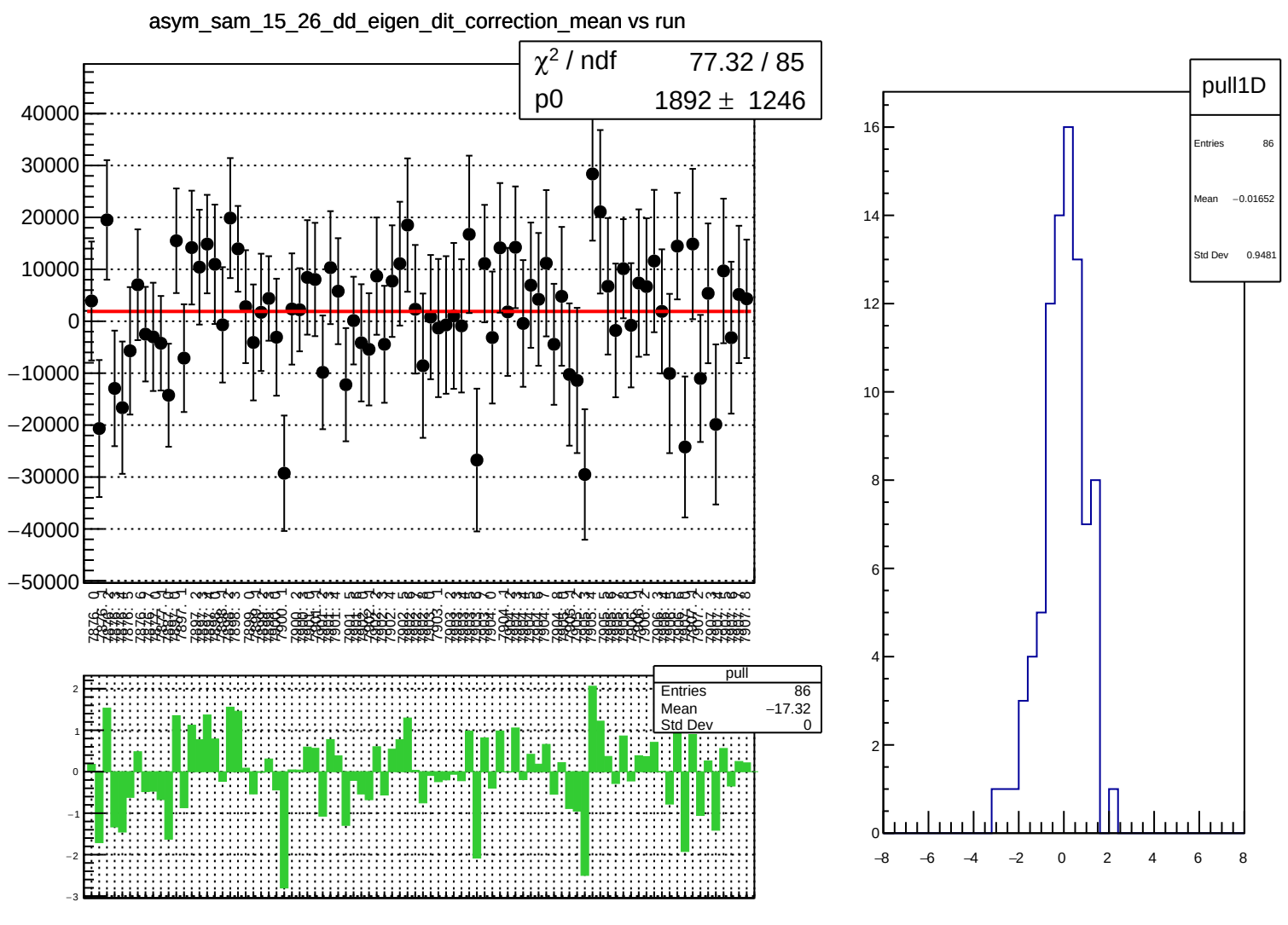

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 77.32 / 85
p0 1892 ± 1246
pull
Entries 86
Mean −17.32
Std Dev 0
pull1D
Entries 86
Mean −0.01652
Std Dev 0.9481

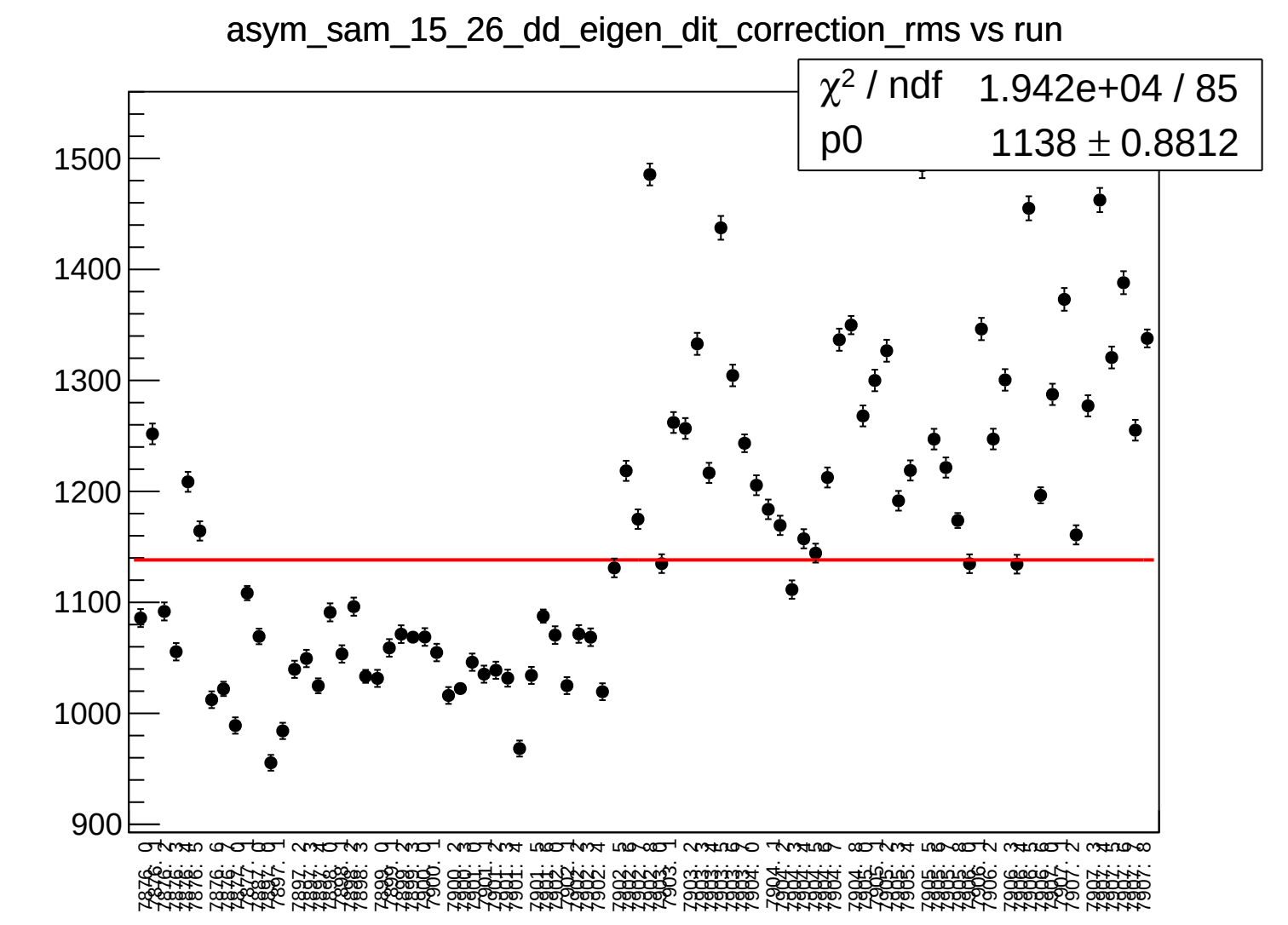

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.942e+04 / 85
p0 1138 ± 0.8812
1500
1400
1300
1200
1100
1000
900

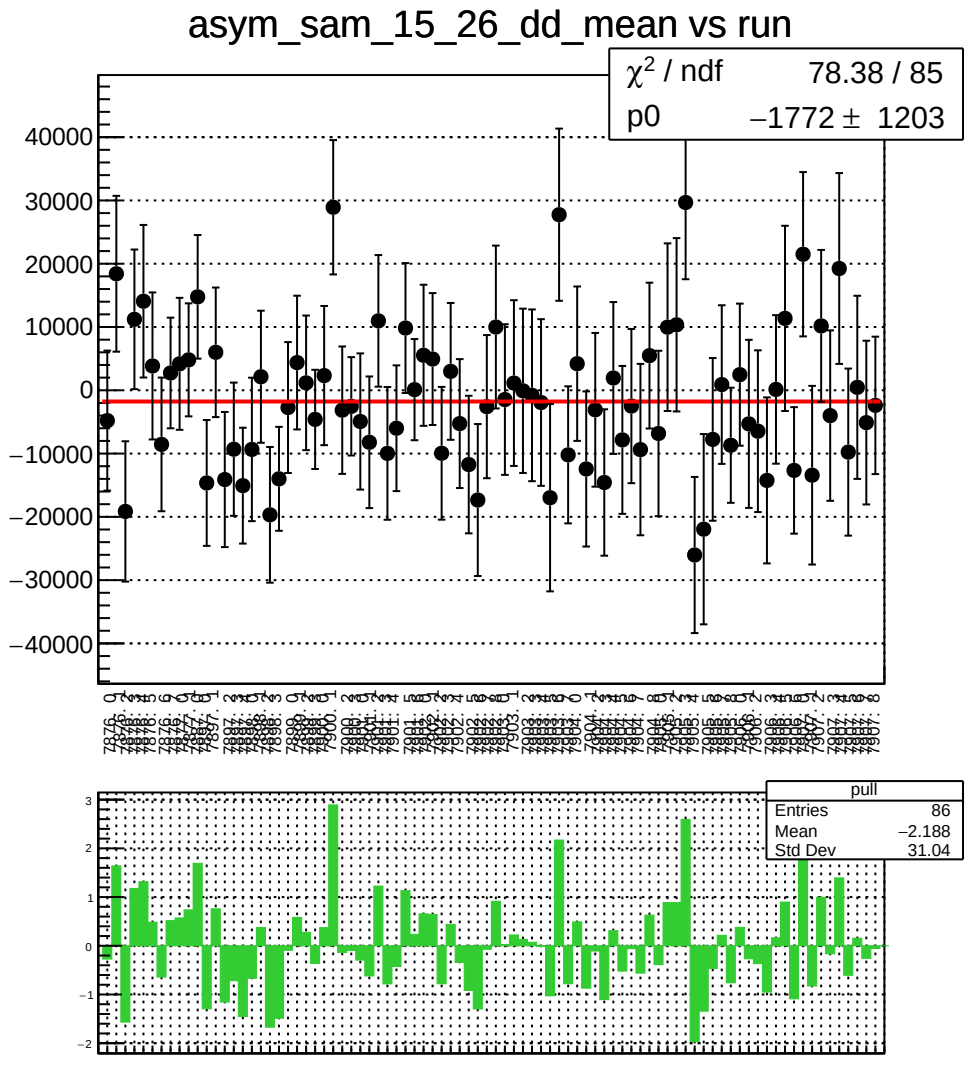

eigen_dit_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 77.81 / 85
p0 109.5 ± 147.8
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −504.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

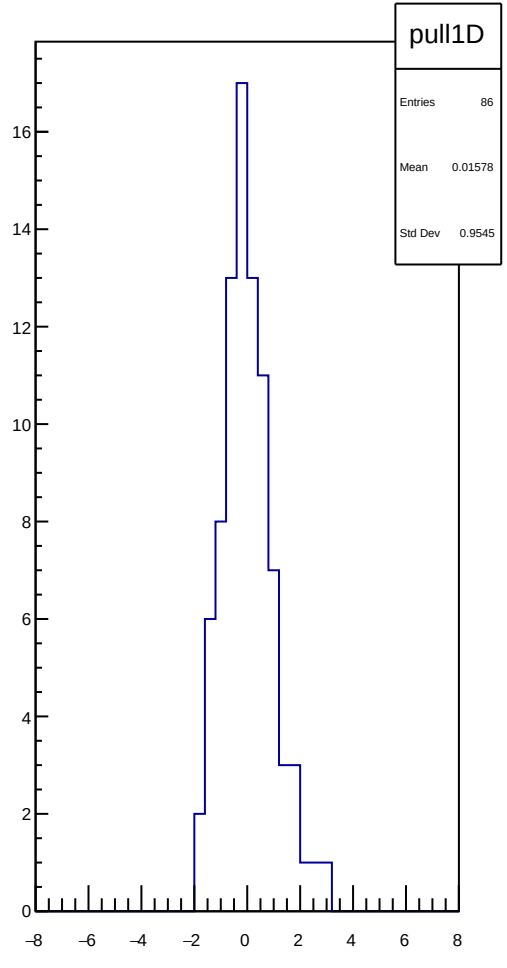

pull1D
Entries 86
Mean −0.005064
Std Dev 0.9512
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

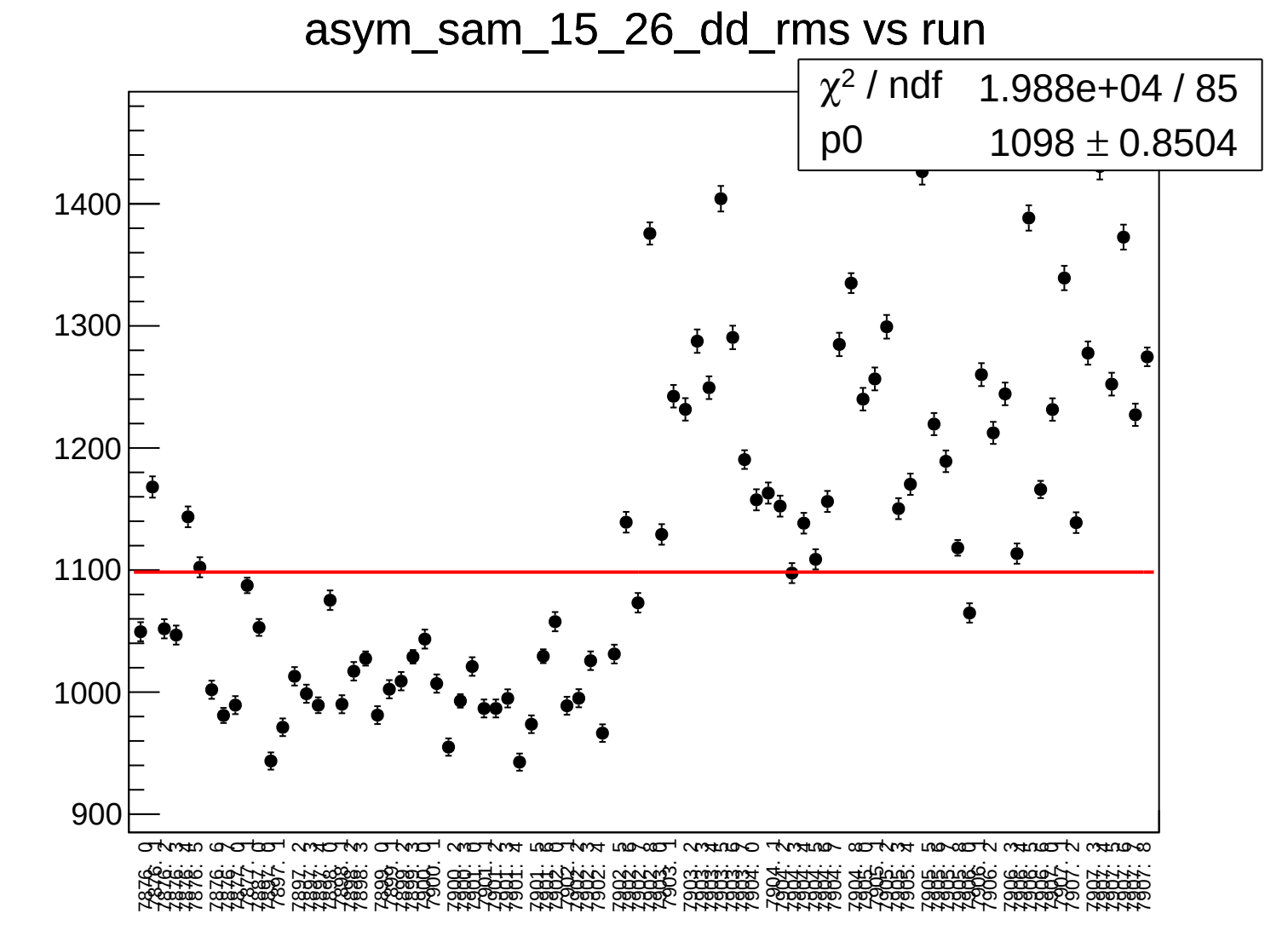

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.448e+04 / 85
p0 134.7 ± 0.1045
200
180
160
140
120
100

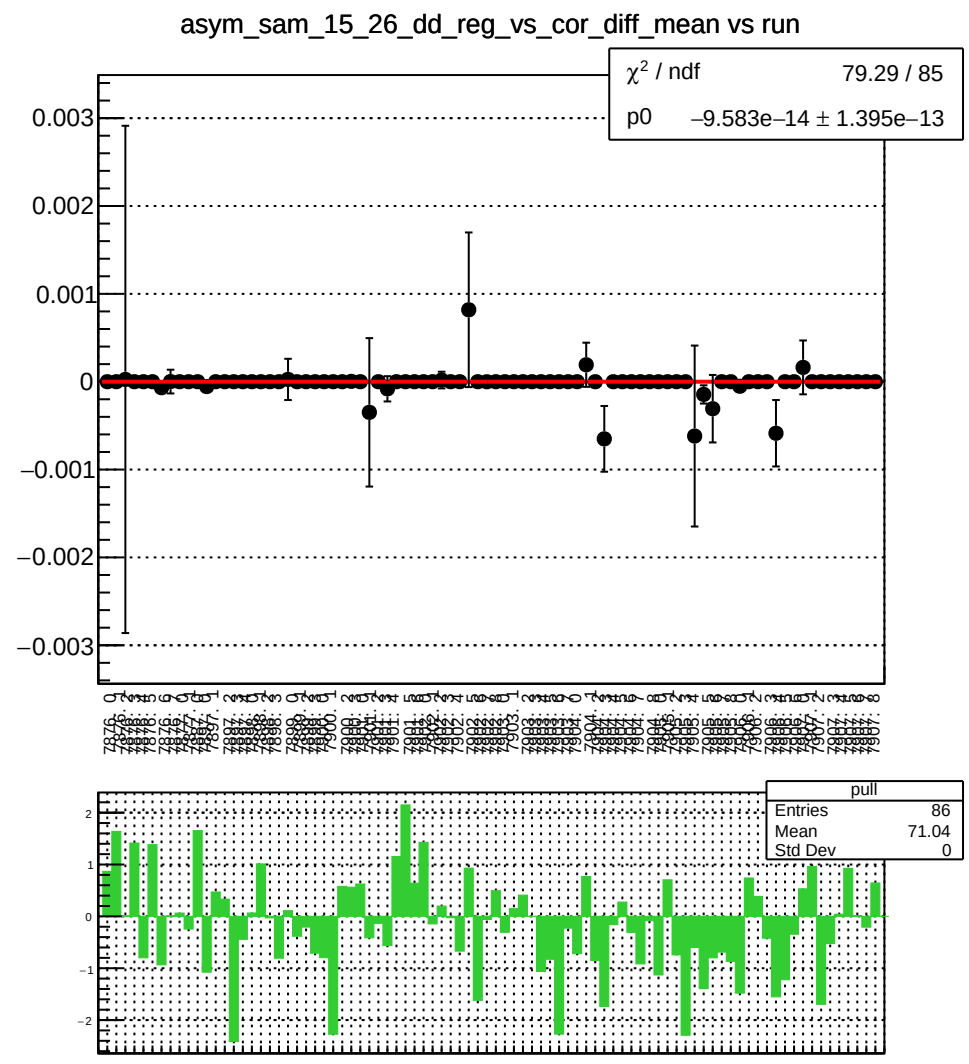

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.32 / 85
p0 1892 ± 1246
pull
Entries 86
Mean −17.32
Std Dev 0
pull1D
Entries 86
Mean −0.01652
Std Dev 0.9481

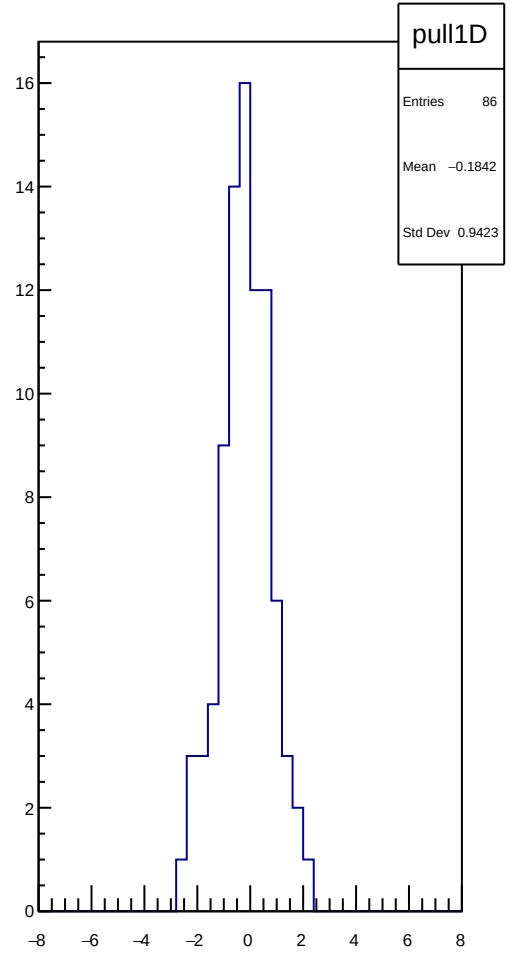

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.942e+04 / 85
p0 1138 ± 0.8812
1500
1400
1300
1200
1100
1000
900

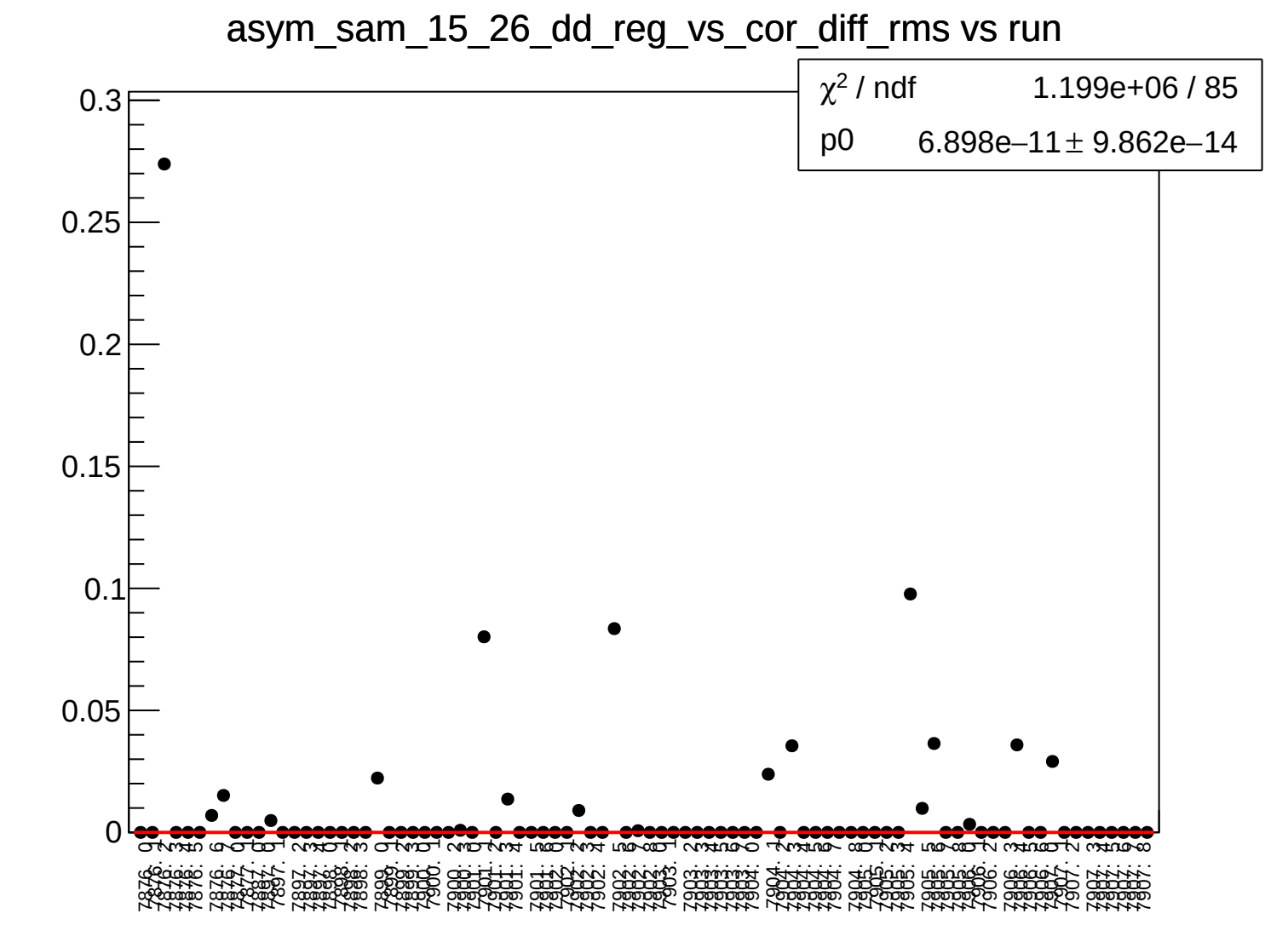

asym_sam_15_26_dd_mean vs run
χ² / ndf 78.38 / 85
p0 −1772 ± 1203
pull
Entries 86
Mean −2.188
Std Dev 31.04

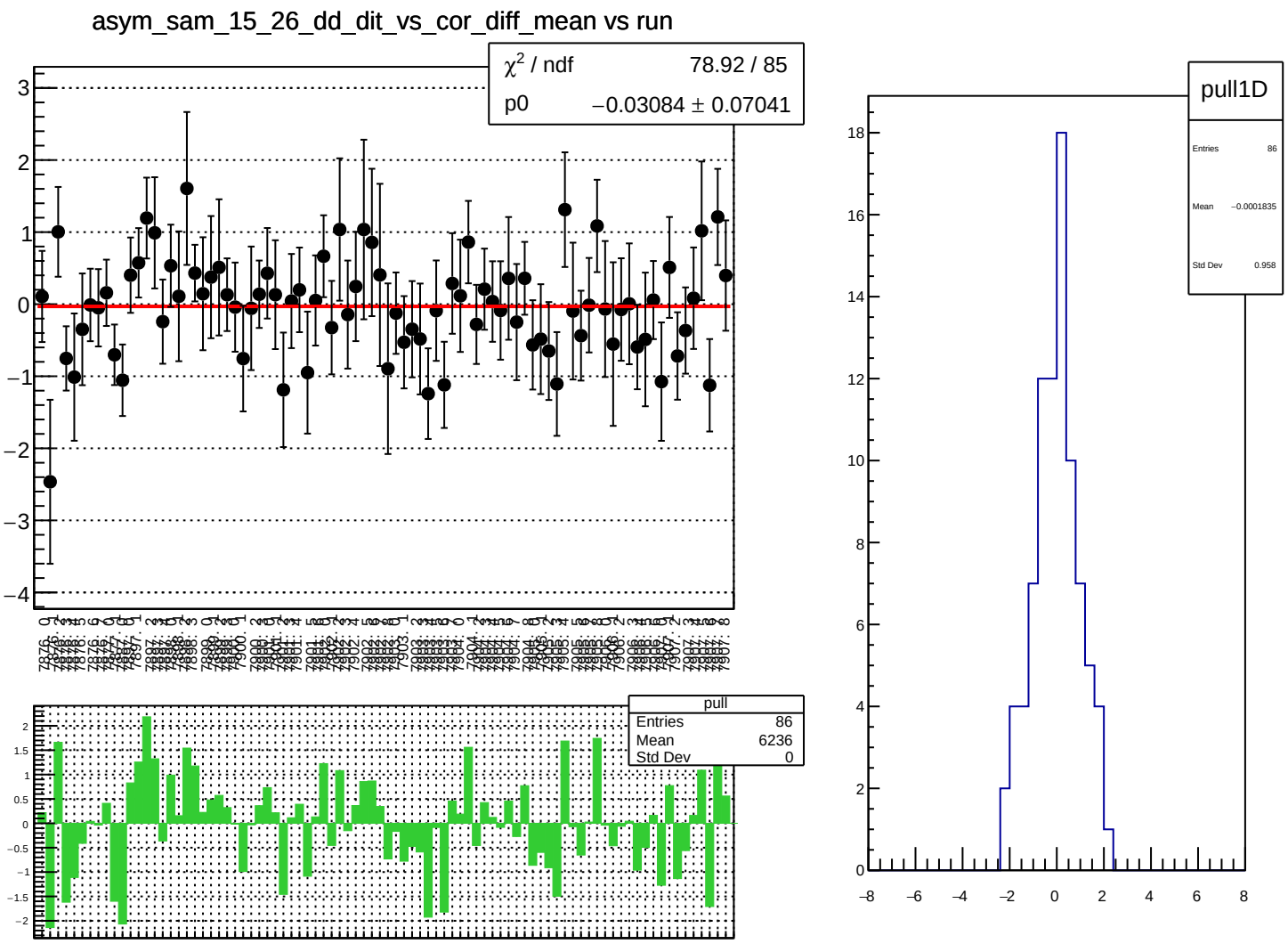

pull1D
Entries 86
Mean 0.01578
Std Dev 0.9545

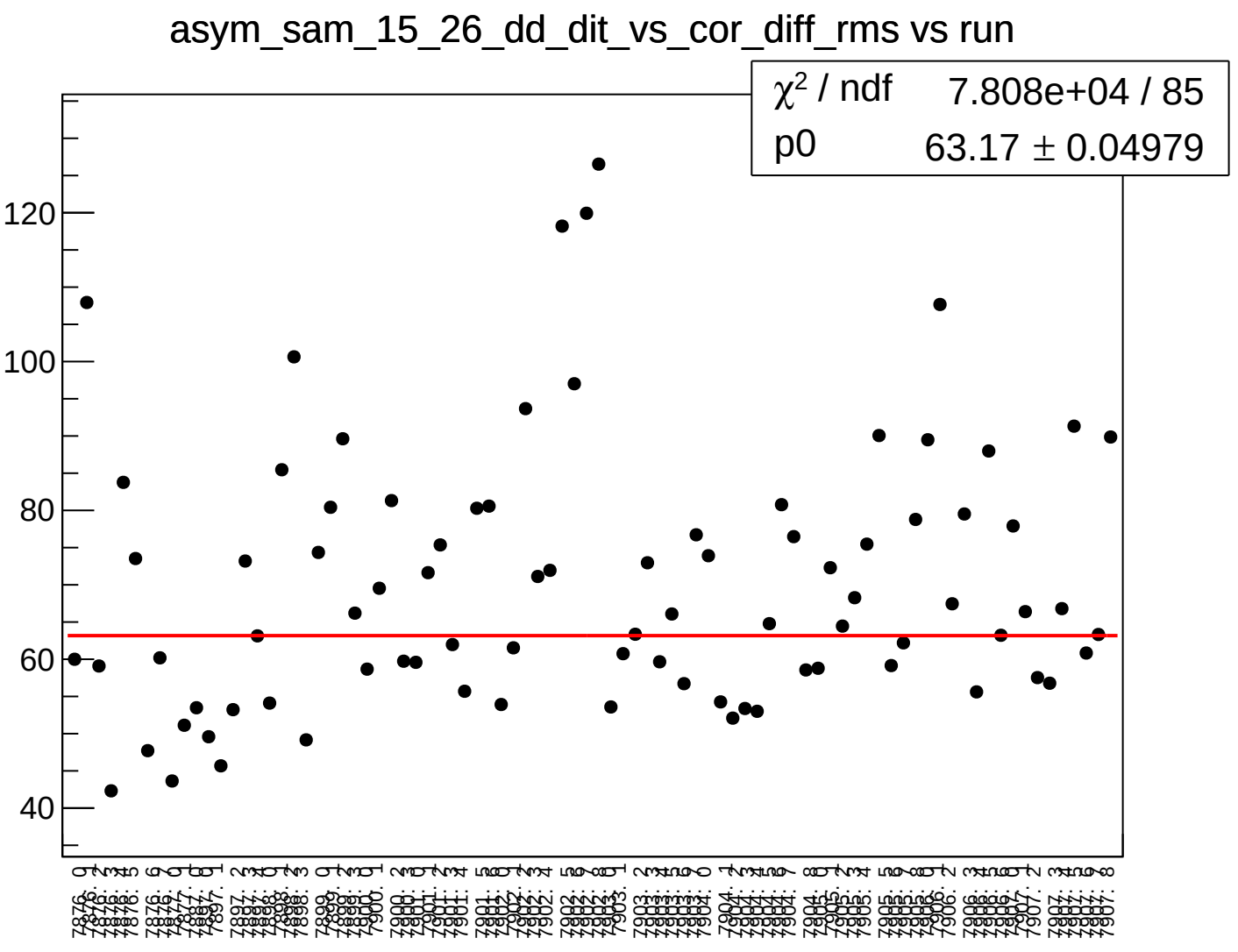

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.988e+04 / 85
p0 1098 ± 0.8504
1400
1300
1200
1100
1000
900

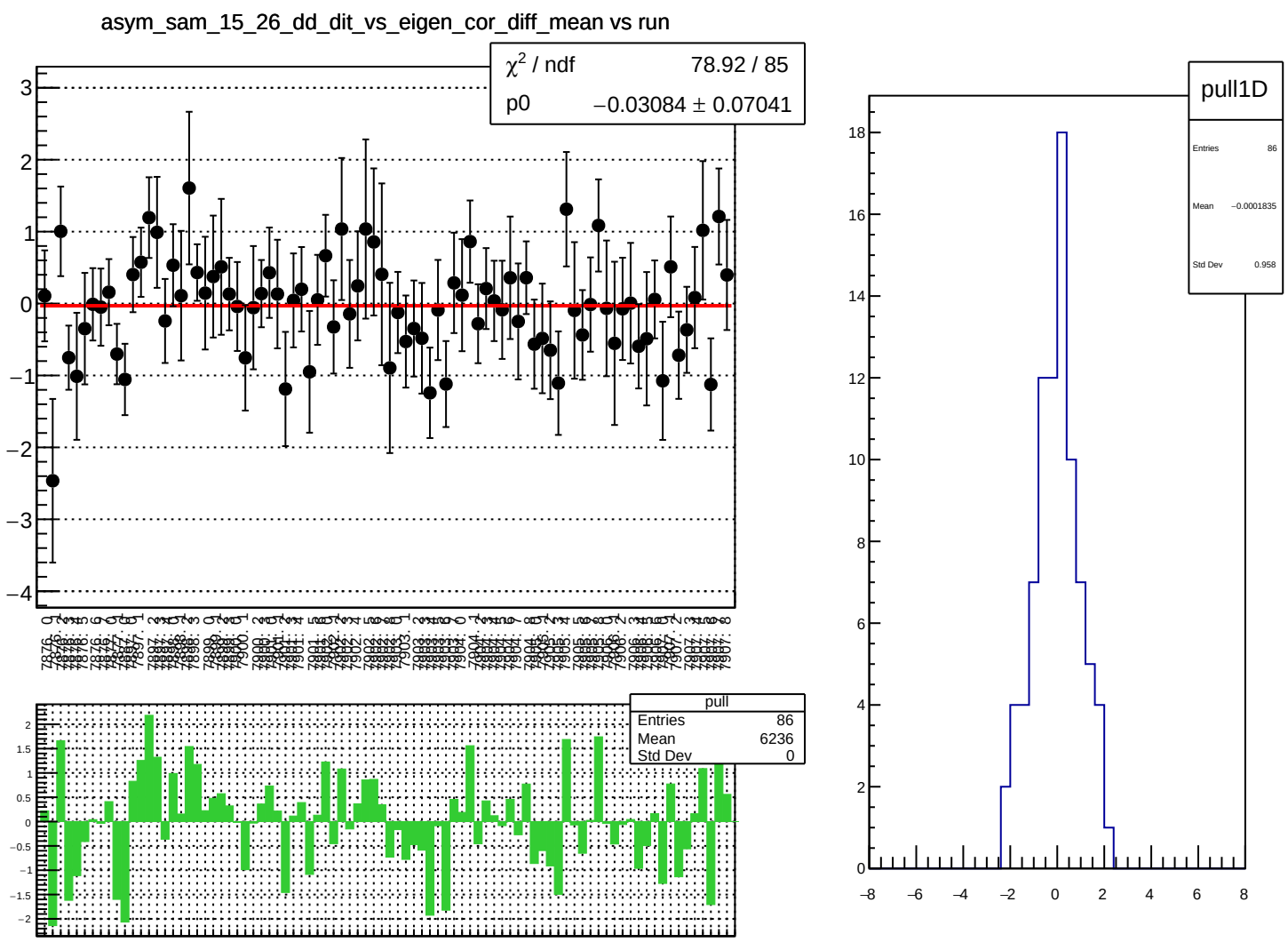

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.29 / 85
p0 −9.583e−14 ± 1.395e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 86
Mean 71.04
Std Dev 0
2
1
0
−1
−2

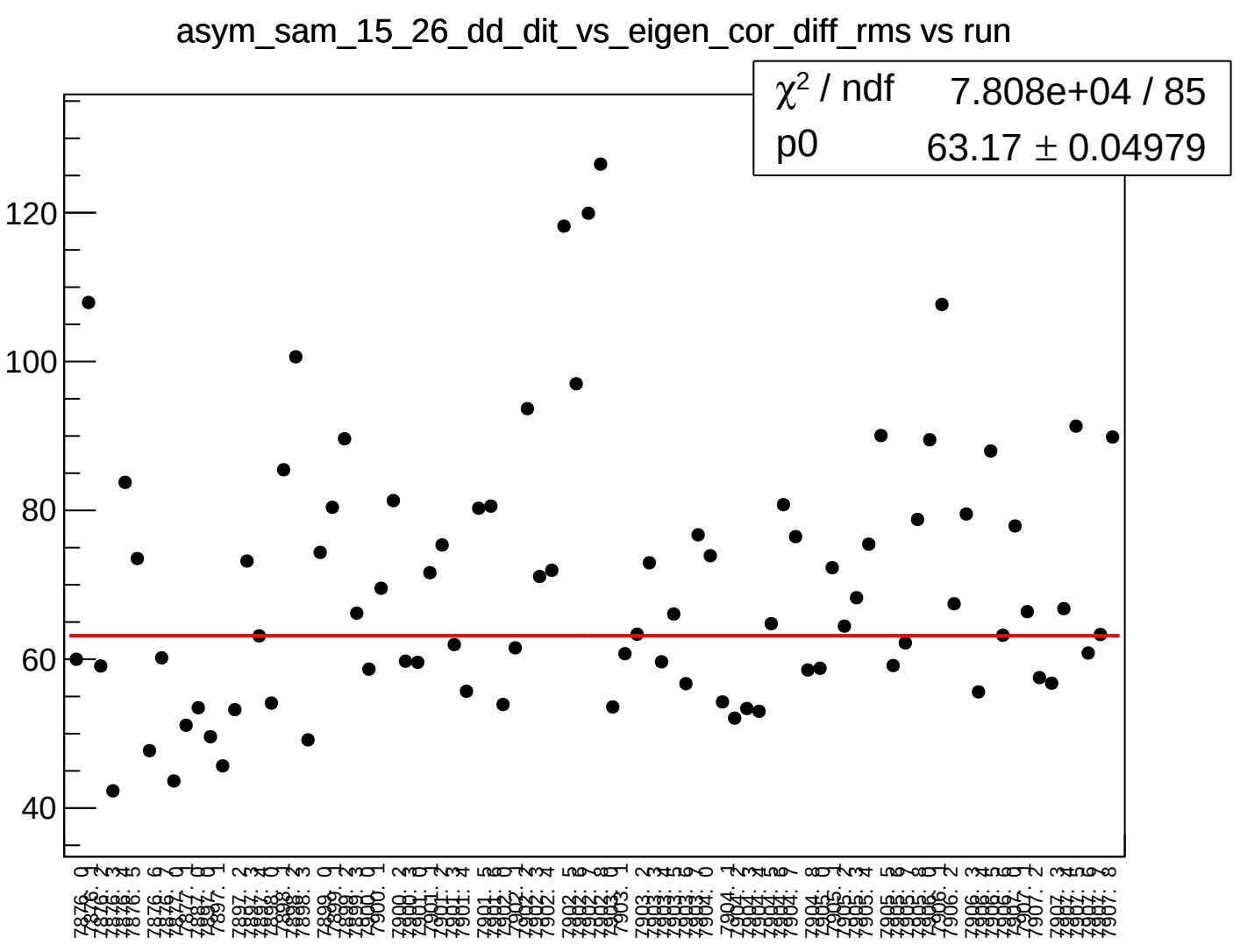

pull1D
Entries 86
Mean −0.1842
Std Dev 0.9423
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

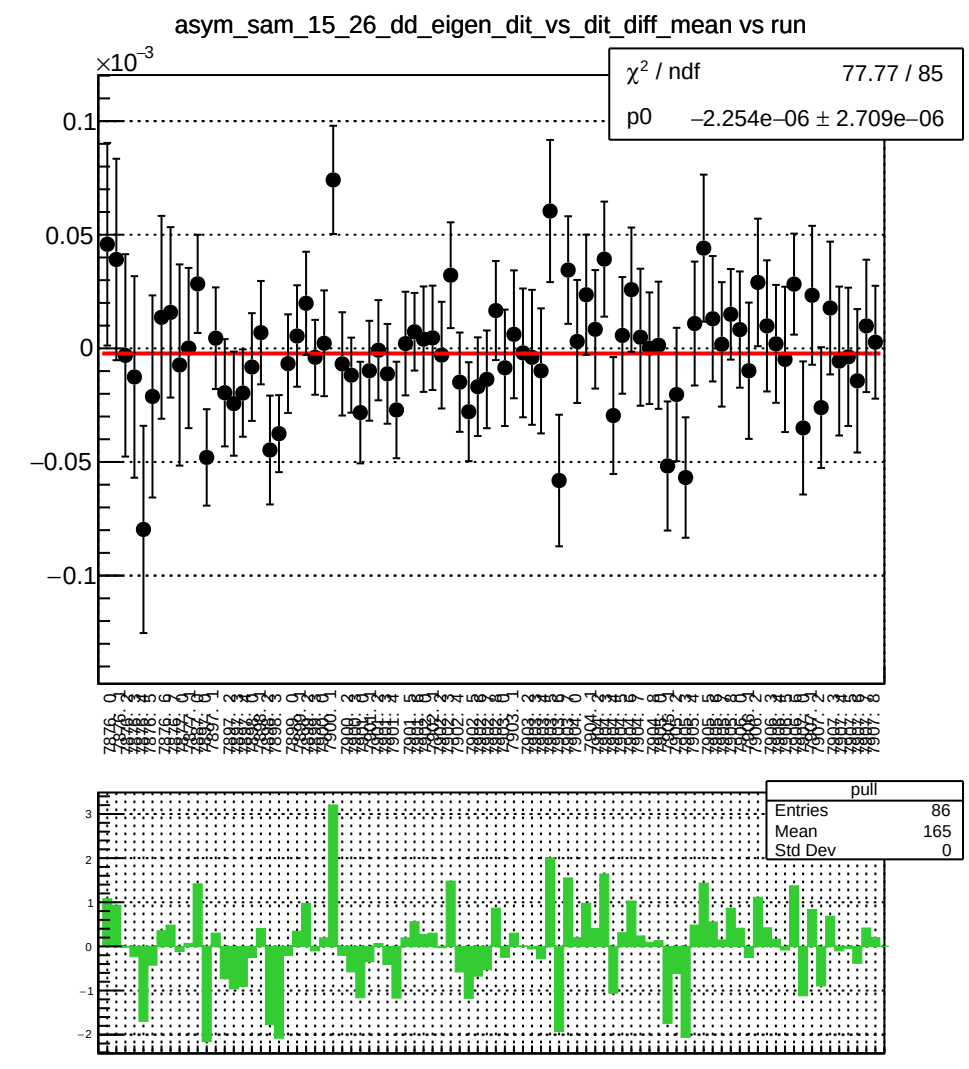

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.199e+06 / 85
p0 6.898e−11 ± 9.862e−14
0.3
0.25
0.2
0.15
0.1
0.05
0

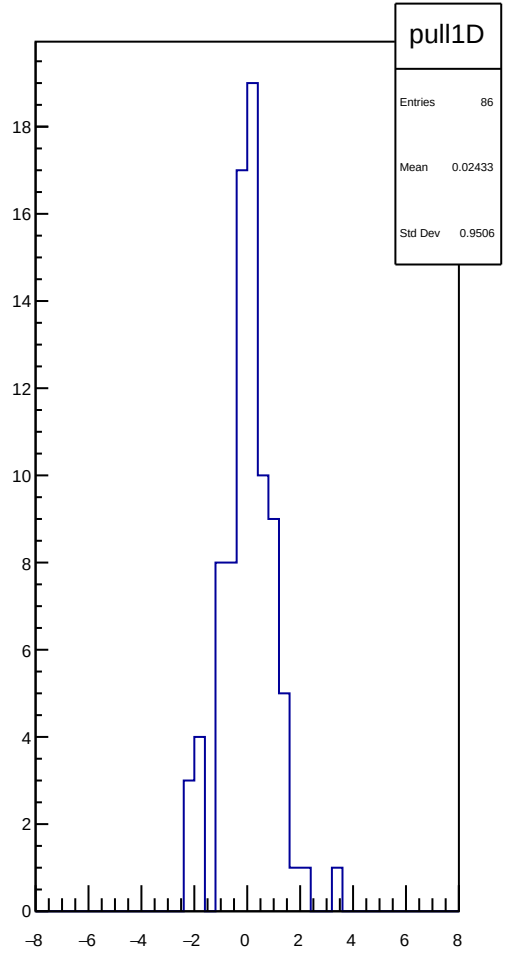

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.92 / 85
p0 −0.03084 ± 0.07041
pull
Entries 86
Mean 6236
Std Dev 0
pull1D
Entries 86
Mean −0.0001835
Std Dev 0.958

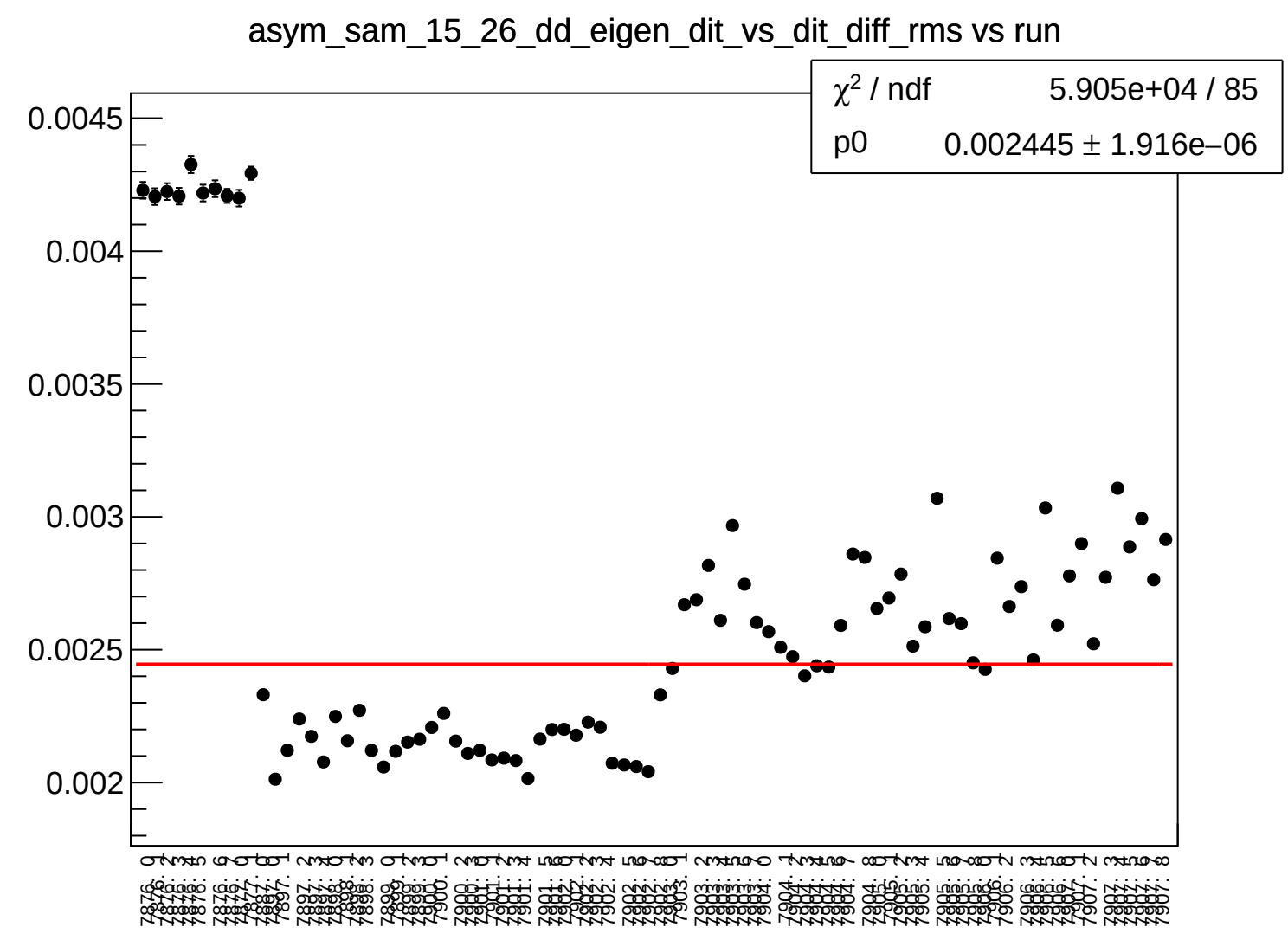

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.808e+04 / 85
p0 63.17 ± 0.04979
120
100
80
60
40

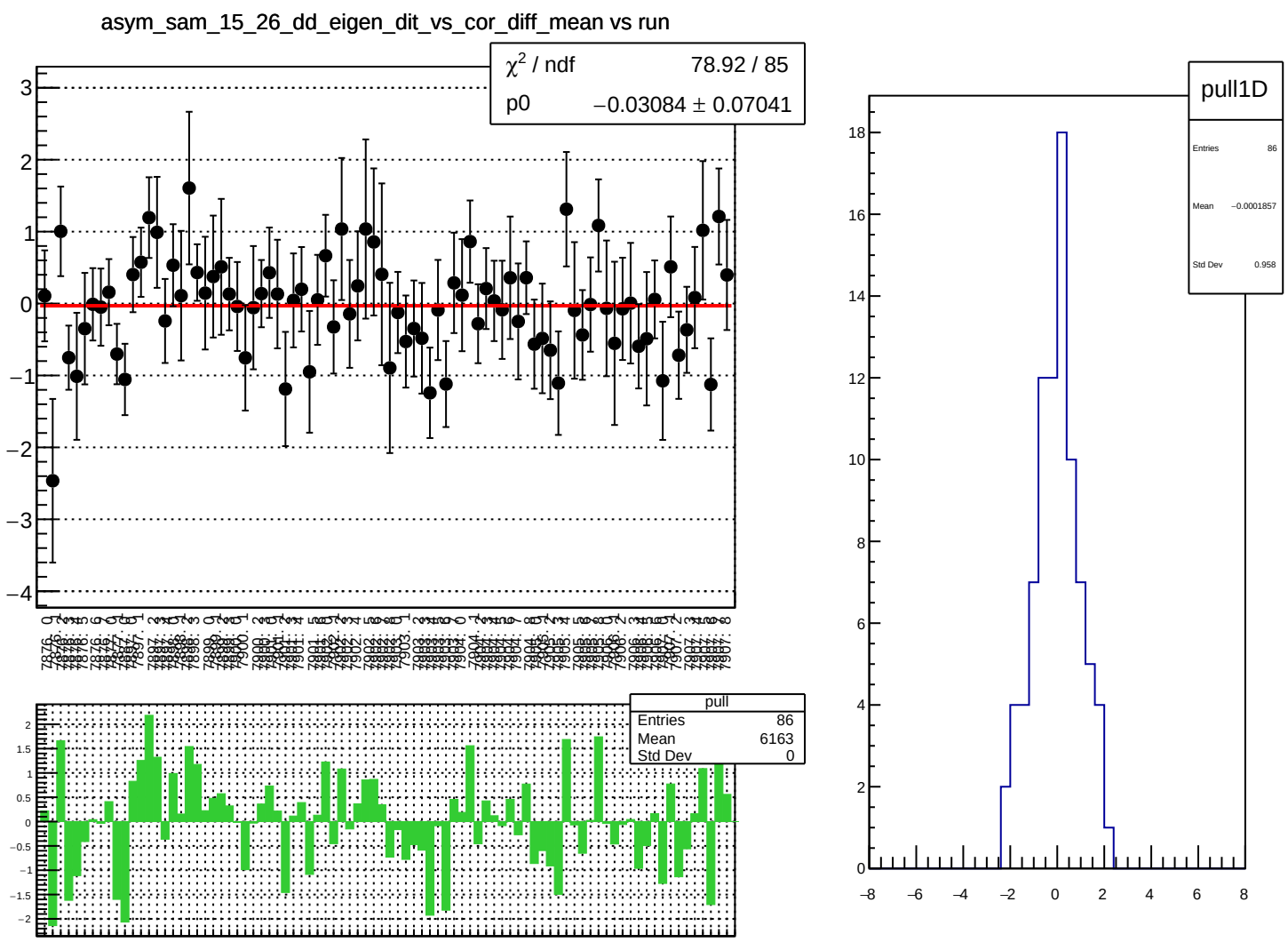

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.92 / 85
p0 −0.03084 ± 0.07041
pull
Entries 86
Mean 6236
Std Dev 0
pull1D
Entries 86
Mean −0.0001835
Std Dev 0.958

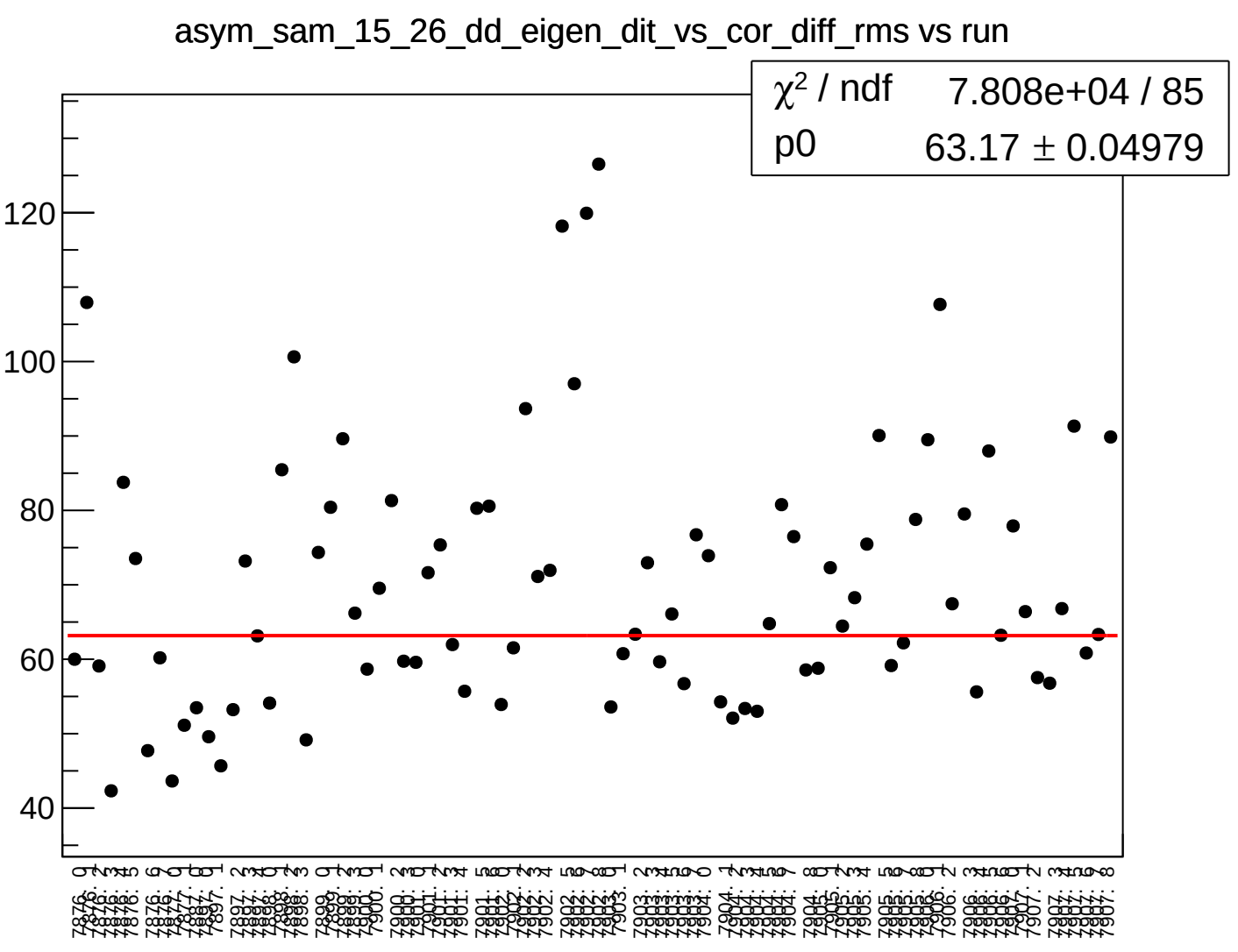

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.808e+04 / 85
p0 63.17 ± 0.04979
120
100
80
60
40

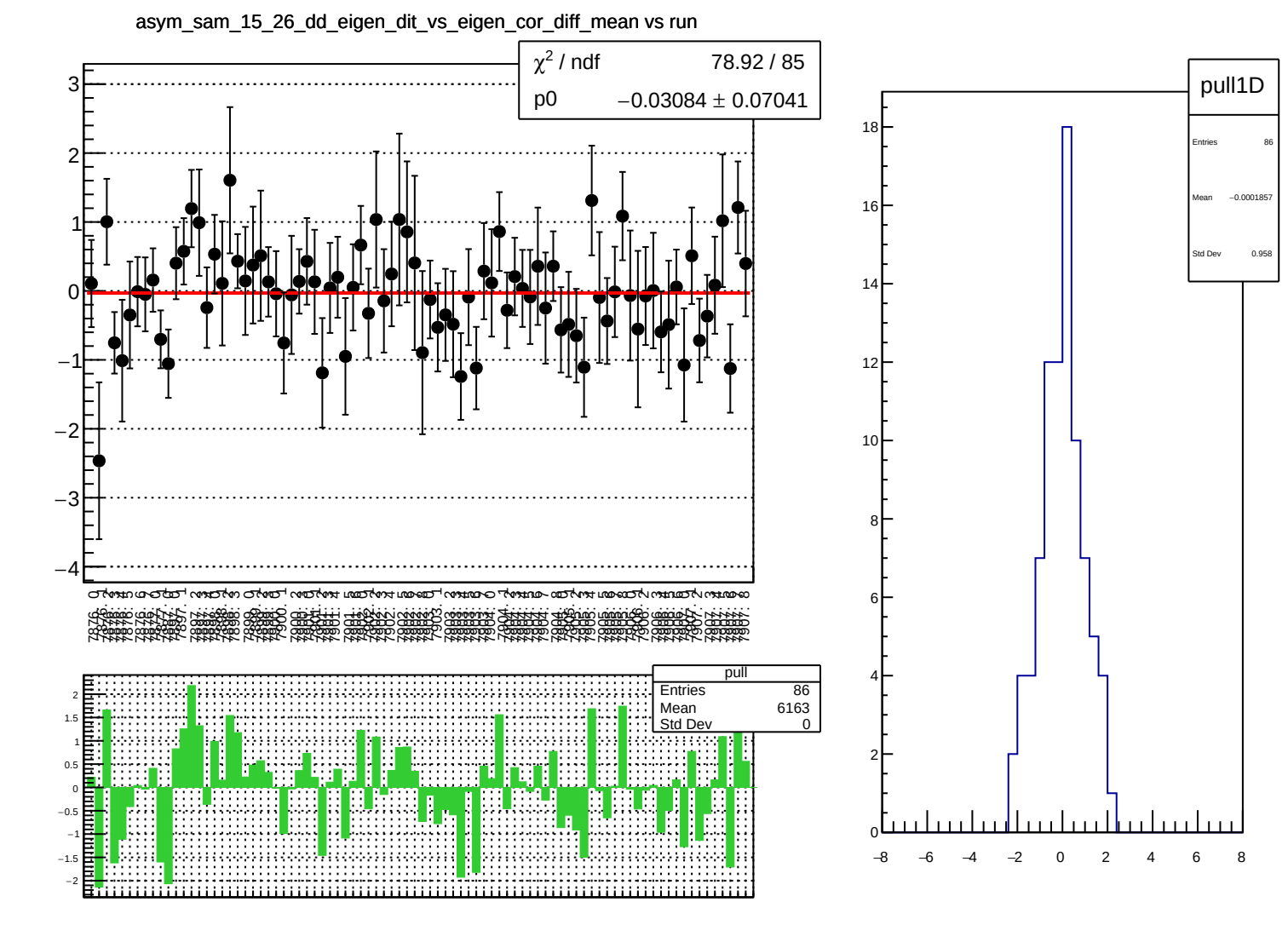

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.77 / 85
p0 −2.254e−06 ± 2.709e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 165
Std Dev 0
3
2
1
0
−1
−2

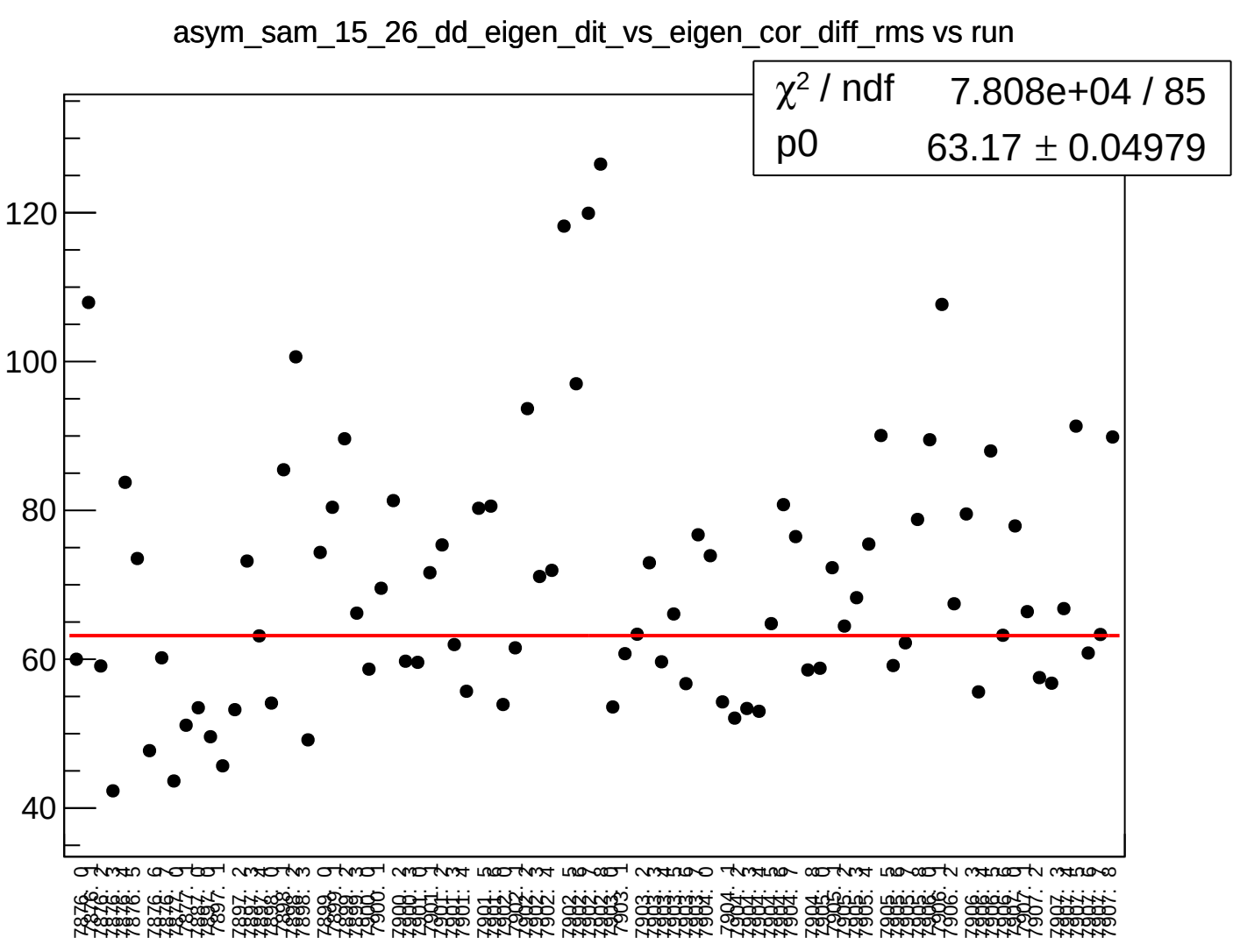

pull1D
Entries 86
Mean 0.02433
Std Dev 0.9506
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

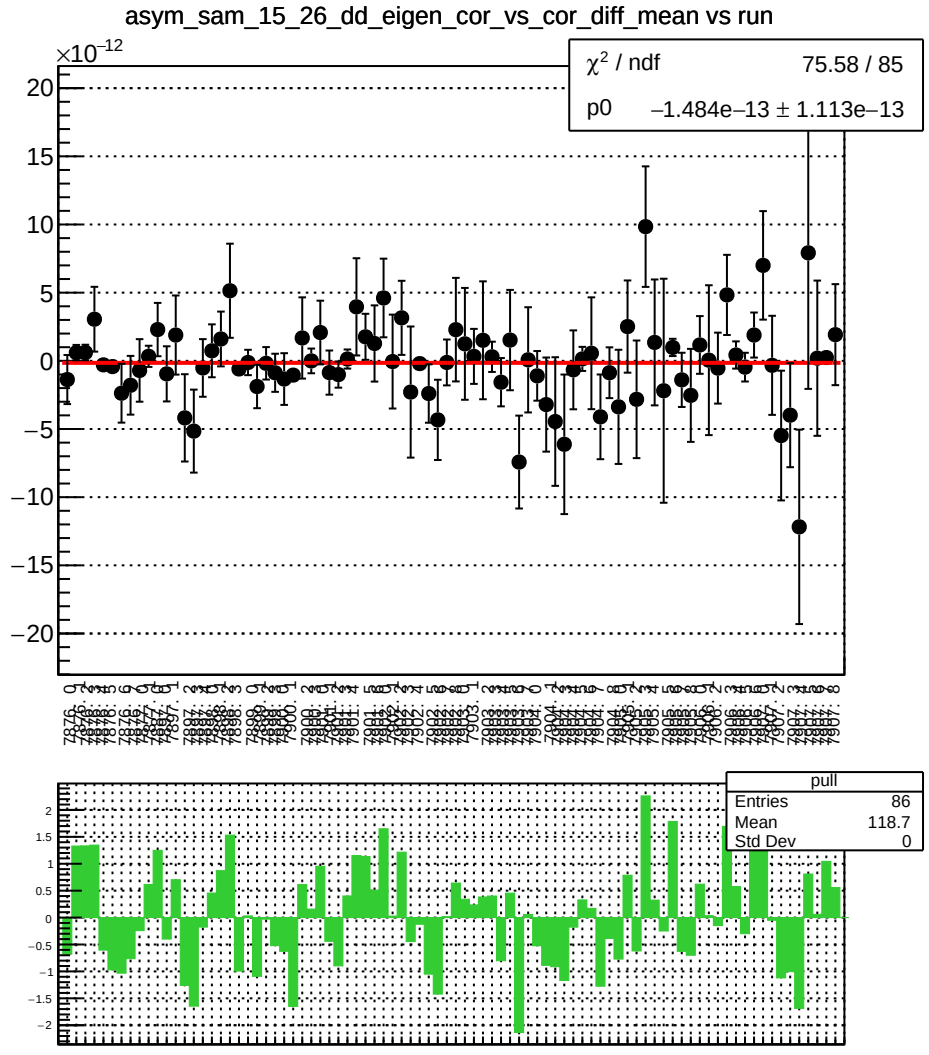

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.905e+04 / 85
p0 0.002445 ± 1.916e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

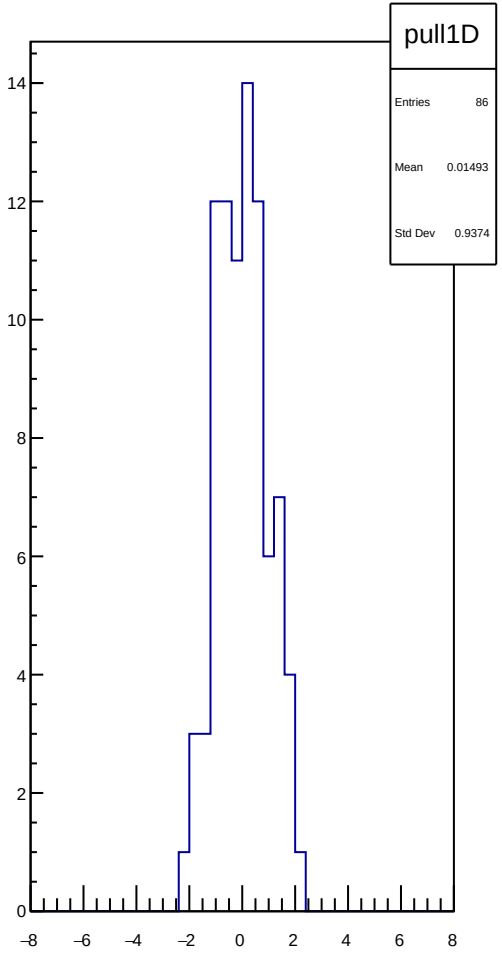

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.92 / 85
p0 −0.03084 ± 0.07041
pull
Entries 86
Mean 6163
Std Dev 0
pull1D
Entries 86
Mean −0.0001857
Std Dev 0.958

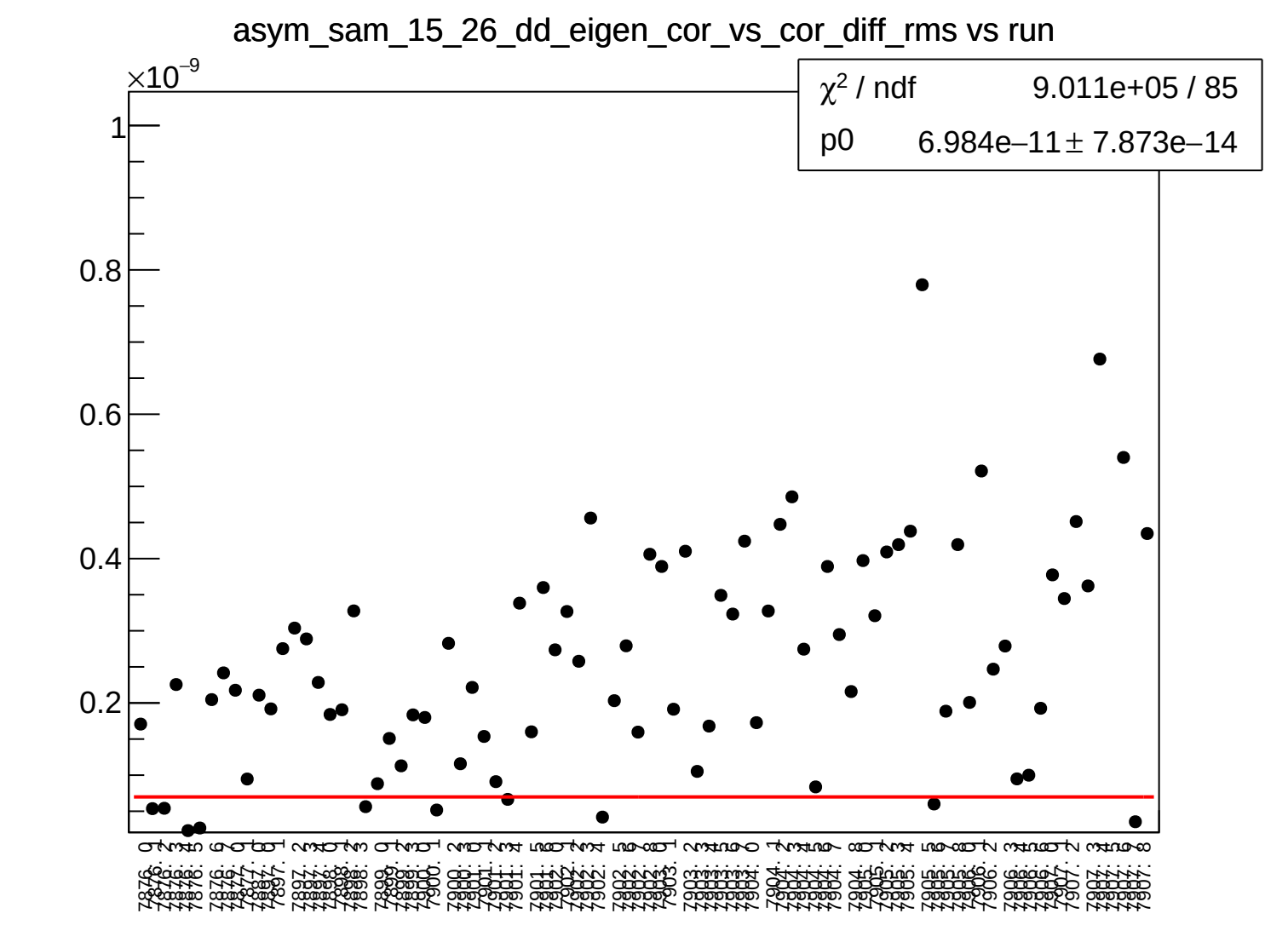

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.808e+04 / 85
p0 63.17 ± 0.04979
120
100
80
60
40

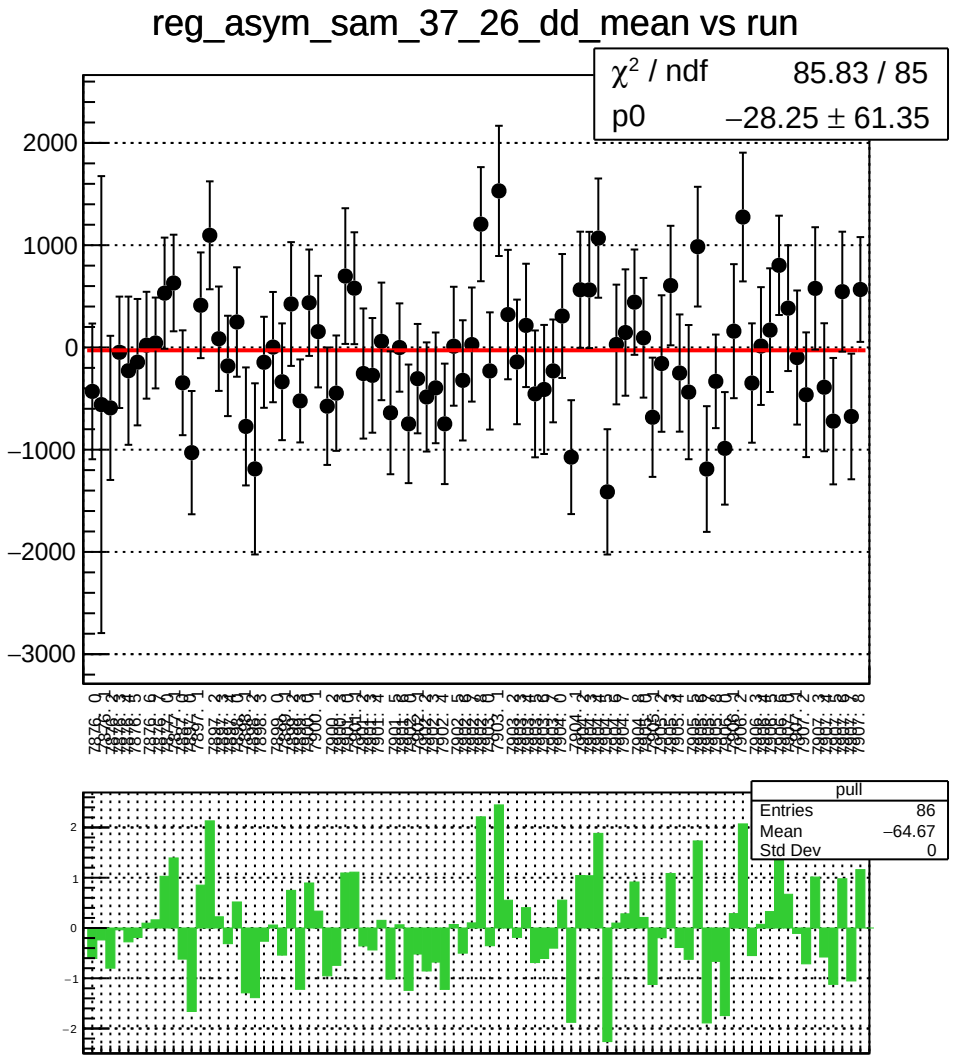

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.92 / 85
p0 −0.03084 ± 0.07041
pull
Entries 86
Mean 6163
Std Dev 0
pull1D
Entries 86
Mean −0.0001857
Std Dev 0.958

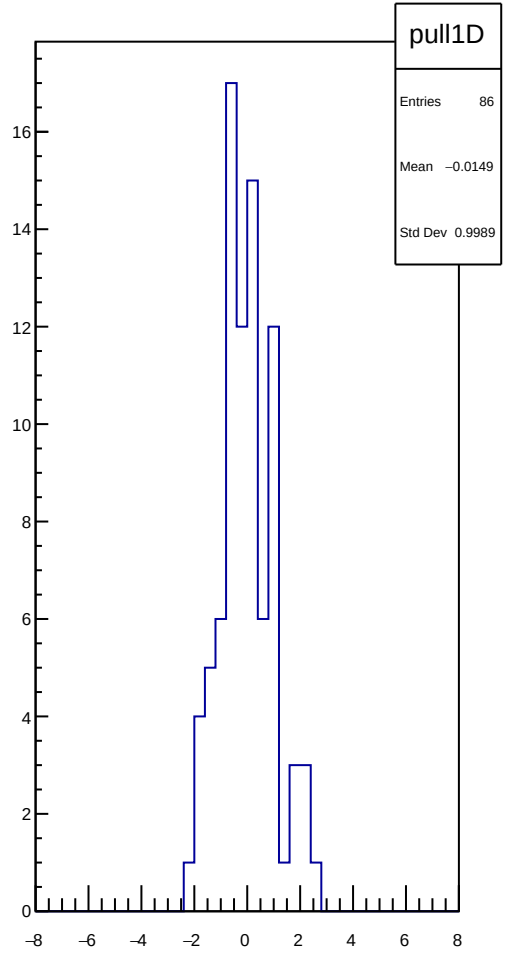

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.808e+04 / 85
p0 63.17 ± 0.04979
120
100
80
60
40

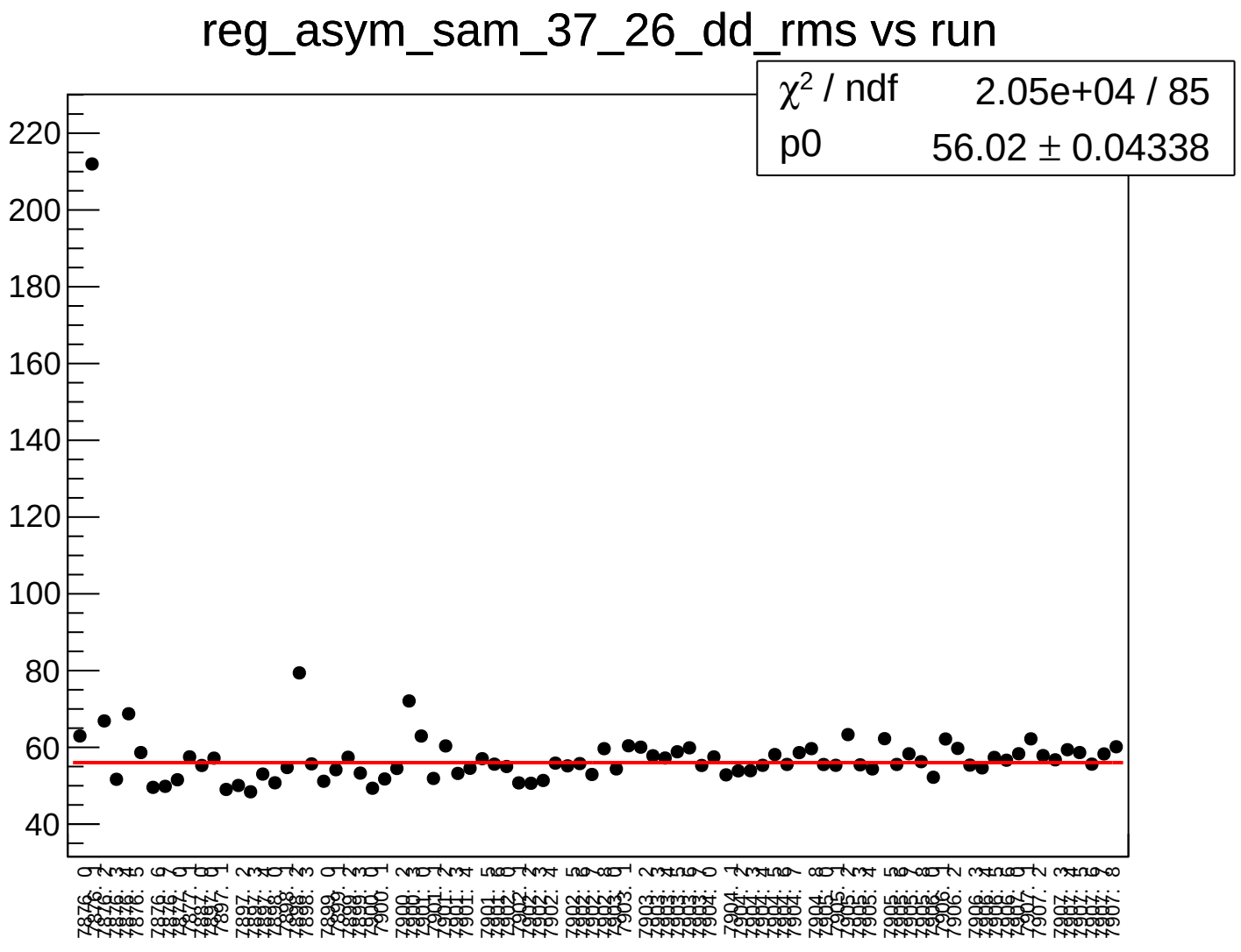

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.58 / 85
p0 −1.484e−13 ± 1.113e−13
pull
Entries 86
Mean 118.7
Std Dev 0

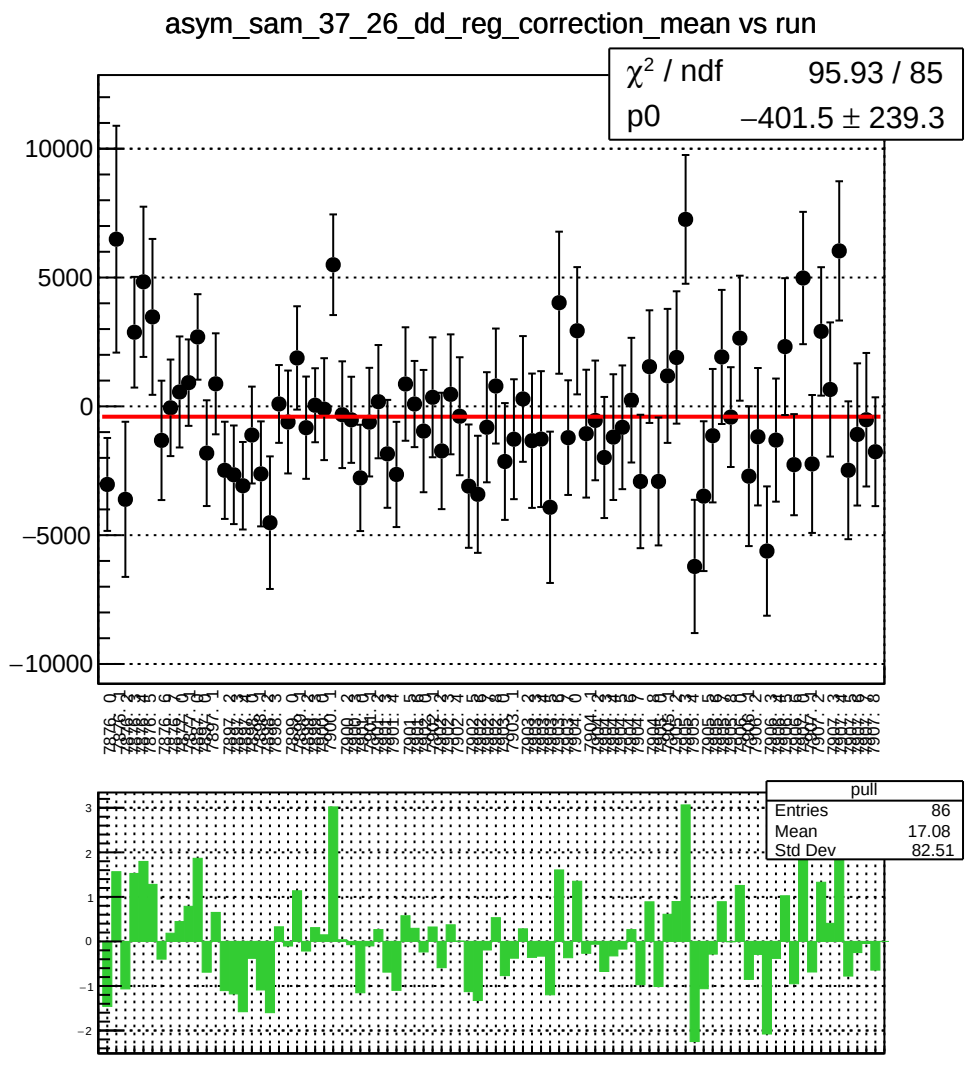

pull1D
Entries 86
Mean 0.01493
Std Dev 0.9374

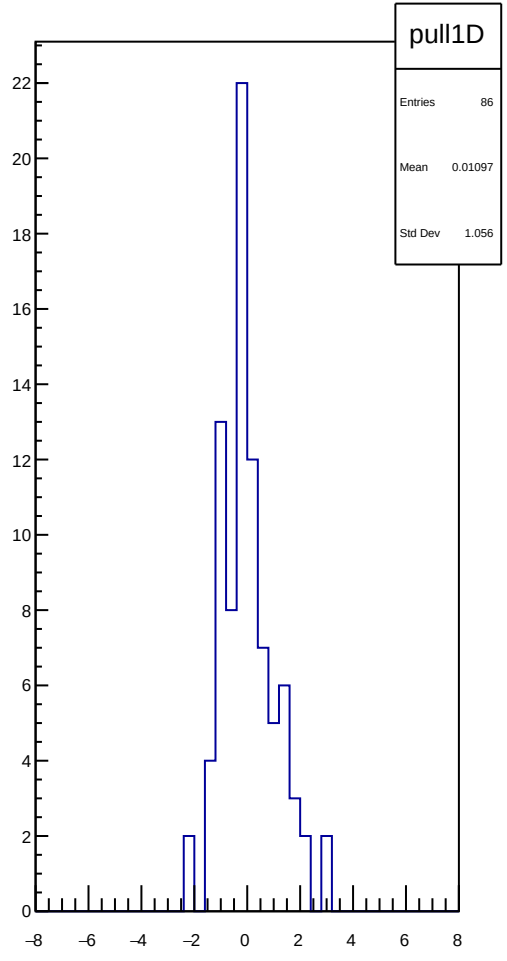

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.011e+05 / 85
p0 6.984e−11 ± 7.873e−14
1
0.8
0.6
0.4
0.2

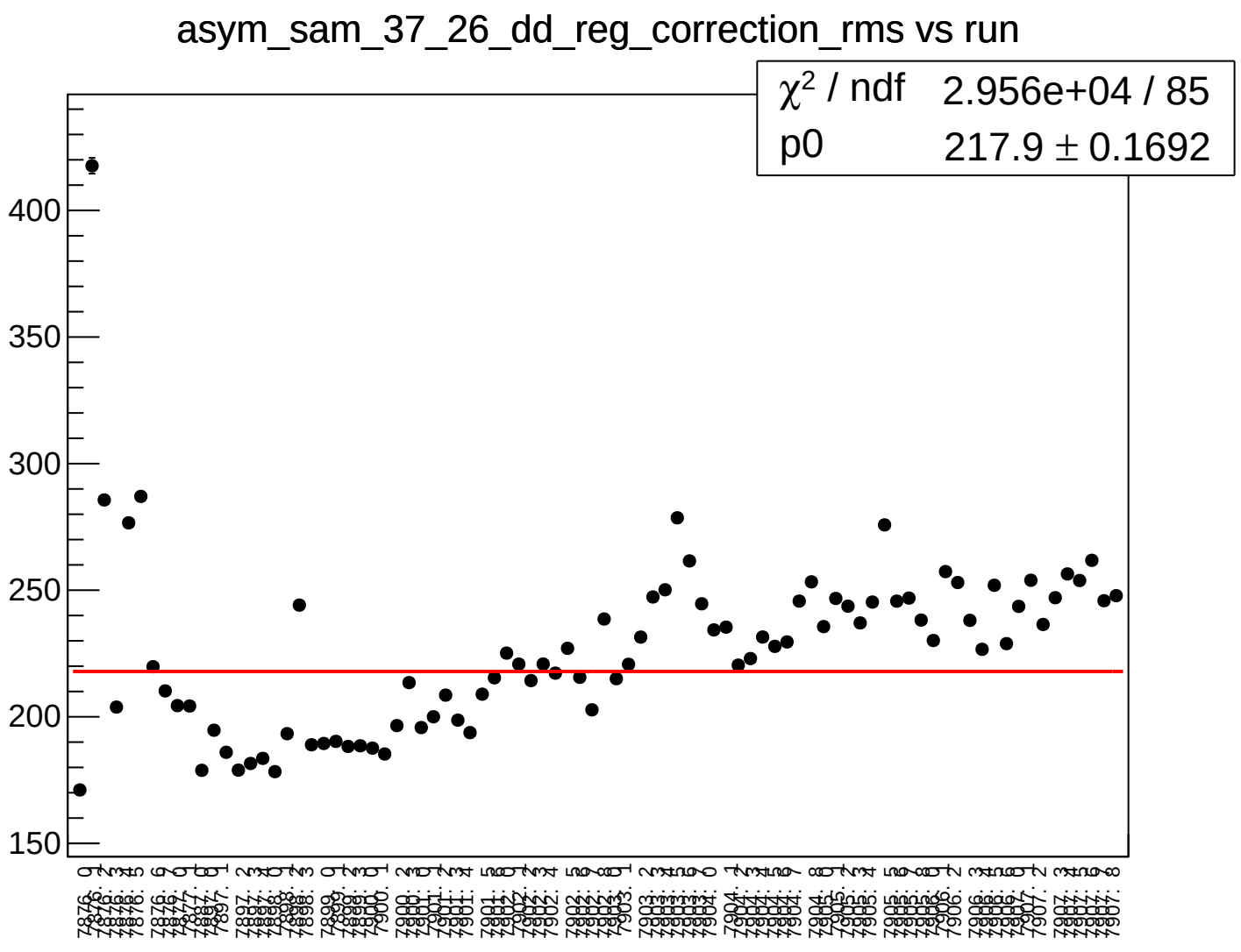

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 85.83 / 85
p0 −28.25 ± 61.35
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −64.67
Std Dev 0
2
1
0
−1
−2

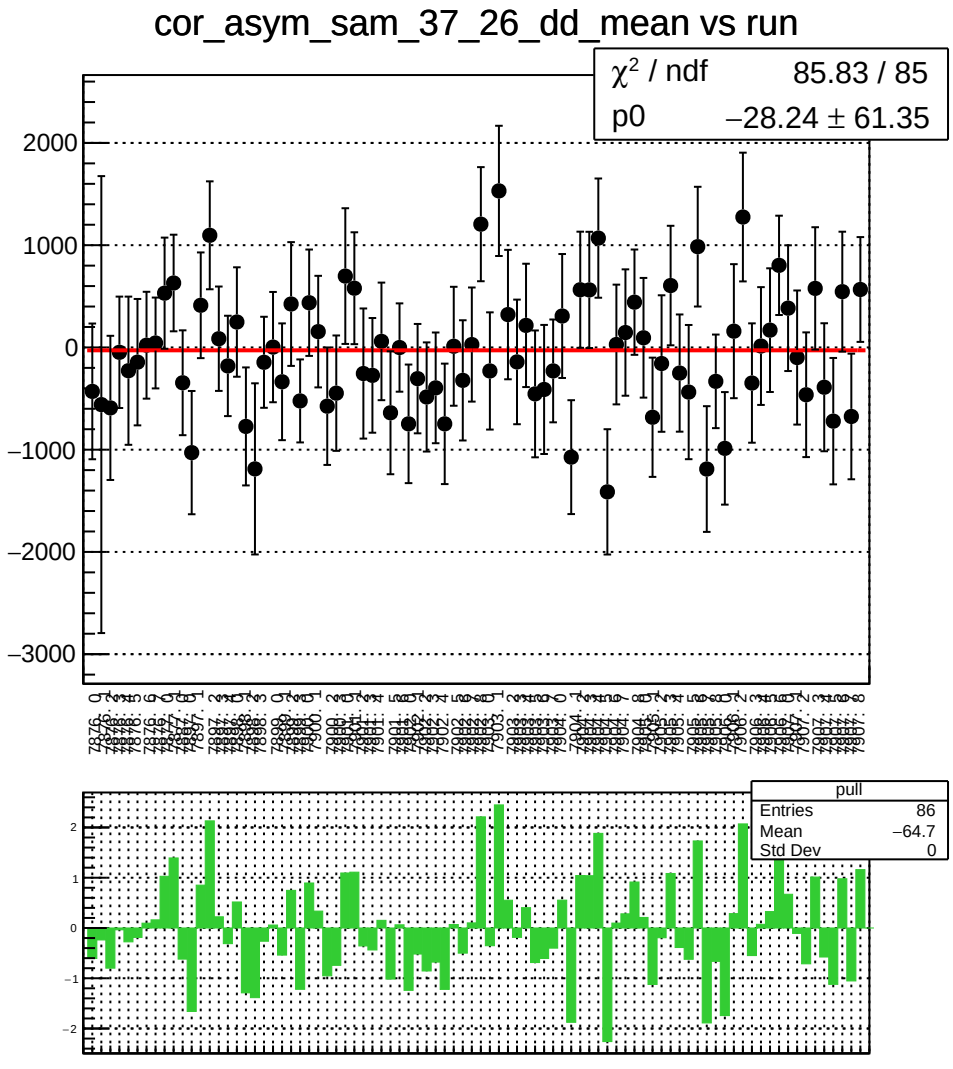

pull1D
Entries 86
Mean −0.0149
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

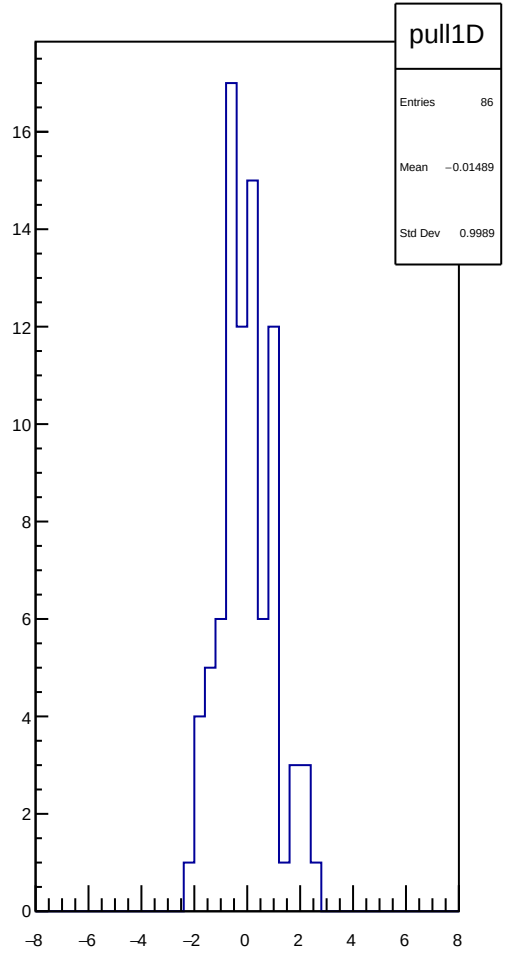

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.05e+04 / 85
p0 56.02 ± 0.04338
220
200
180
160
140
120
100
80
60
40

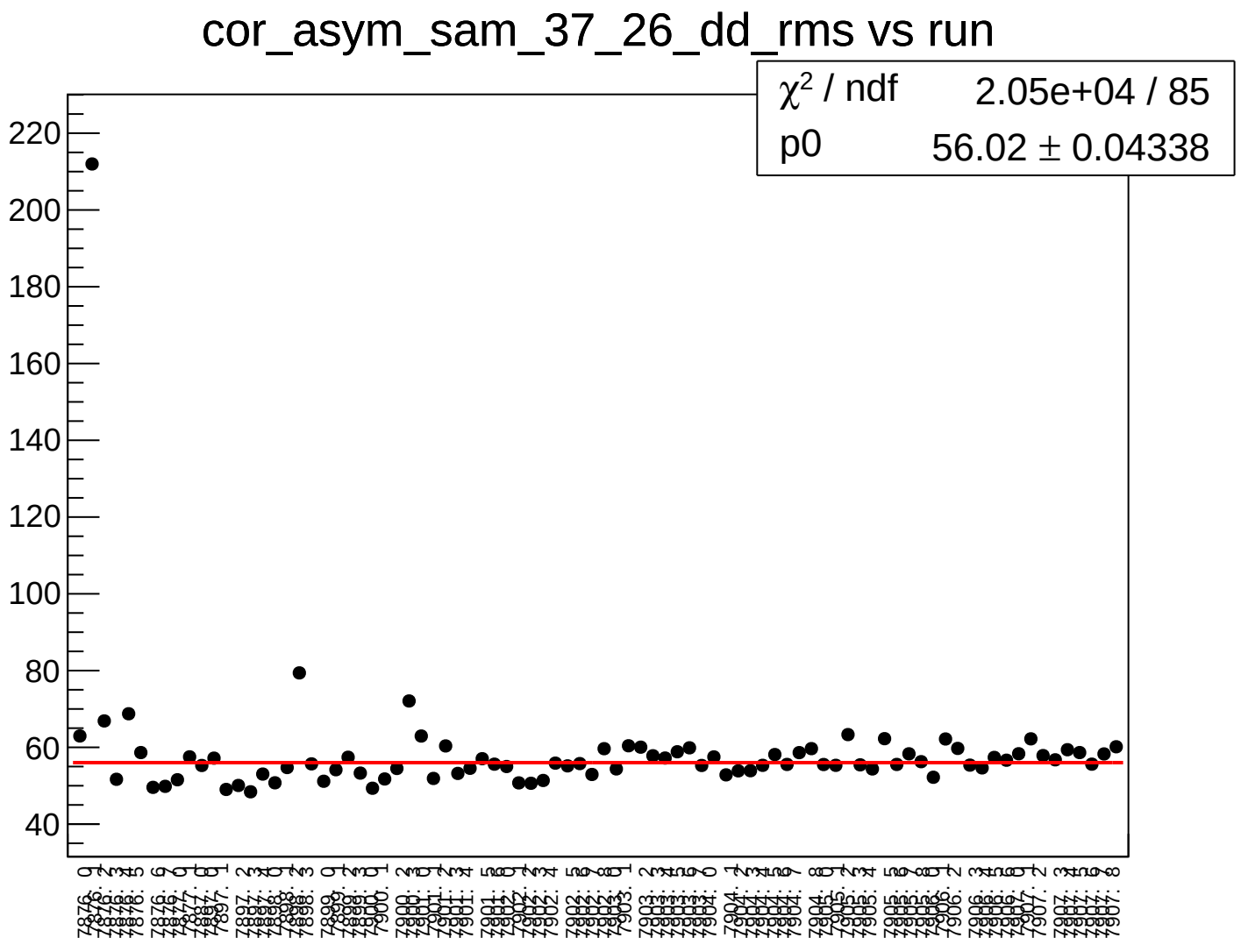

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 95.93 / 85
p0 −401.5 ± 239.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 17.08
Std Dev 82.51
3
2
1
0
−1
−2

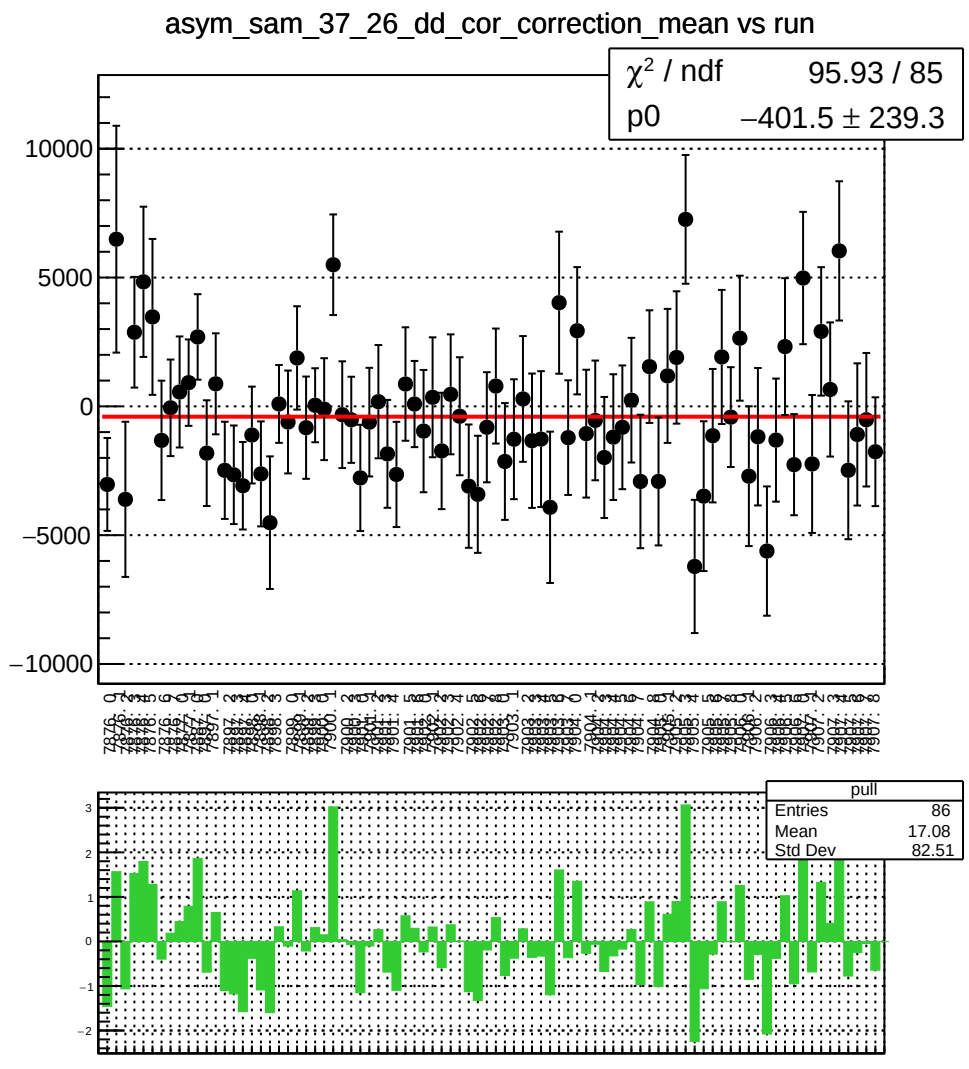

pull1D
Entries 86
Mean 0.01097
Std Dev 1.056
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

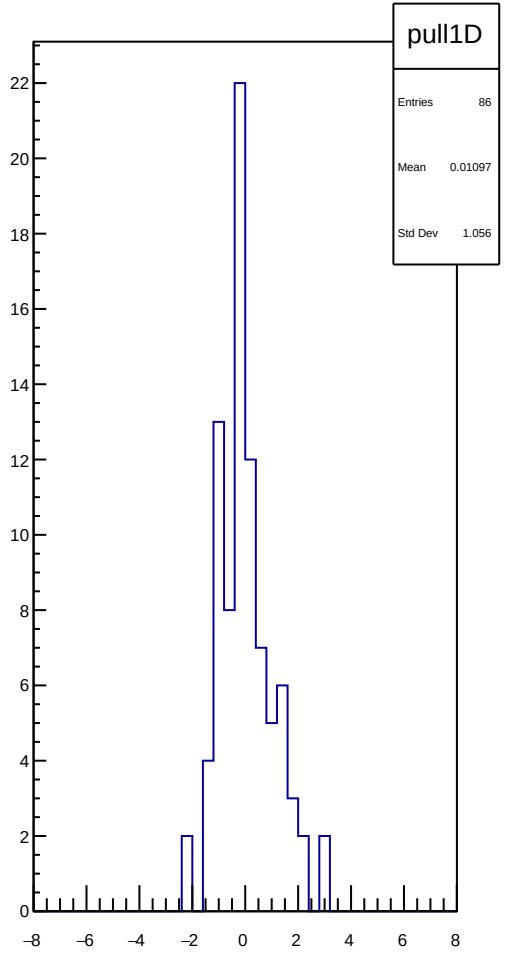

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2.956e+04 / 85
p0 217.9 ± 0.1692
400
350
300
250
200
150

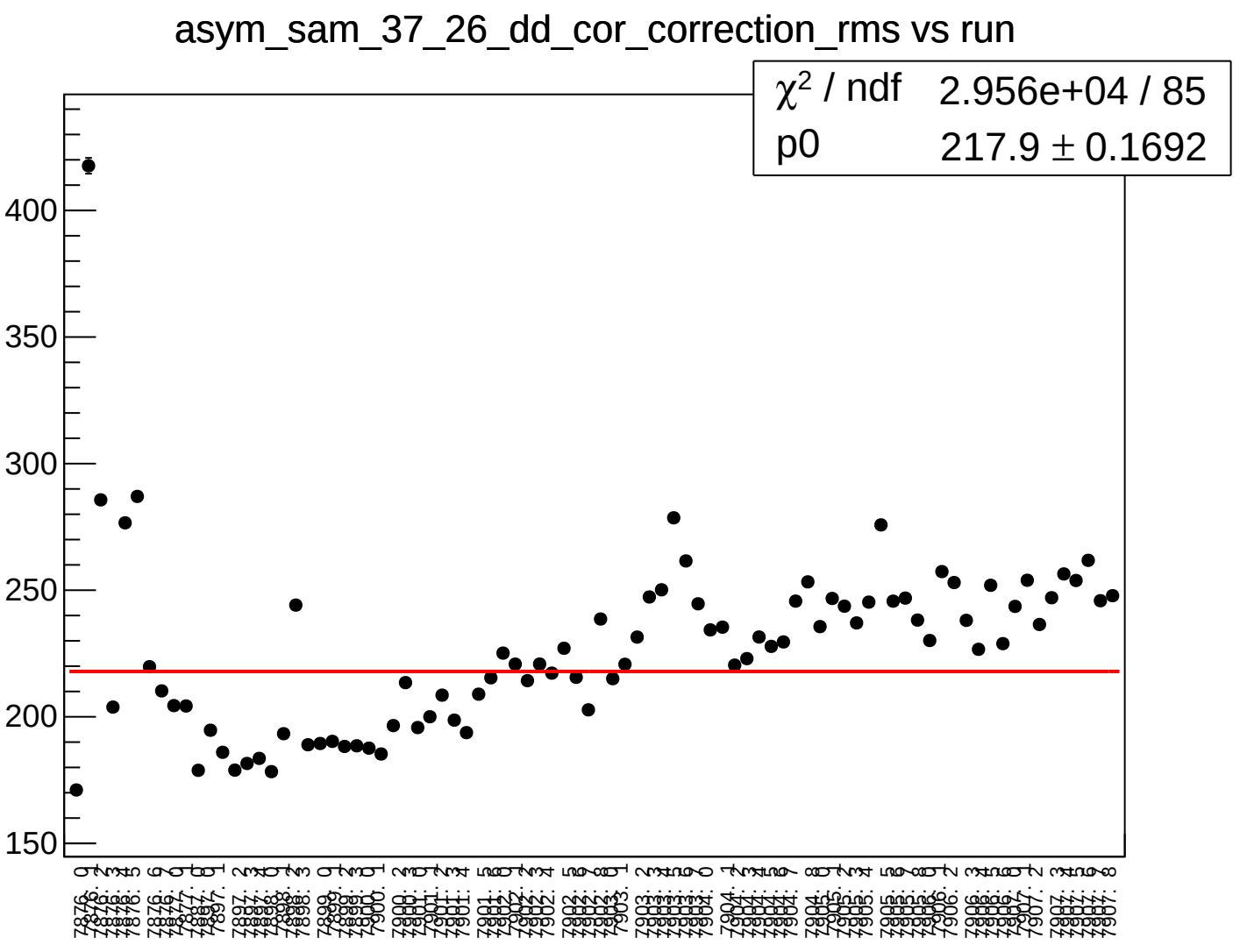

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 85.83 / 85
p0 −28.24 ± 61.35
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −64.7
Std Dev 0
2
1
0
−1
−2

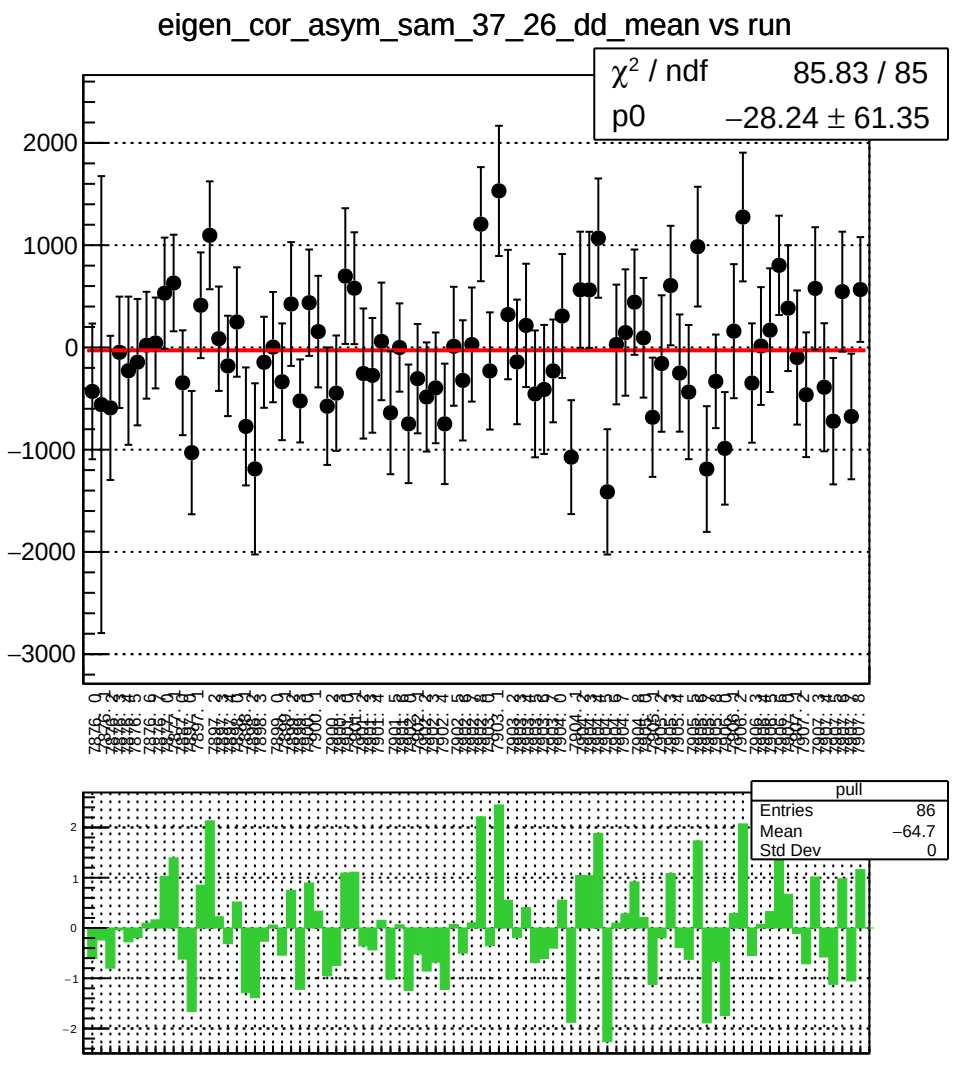

pull1D
Entries 86
Mean −0.01489
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

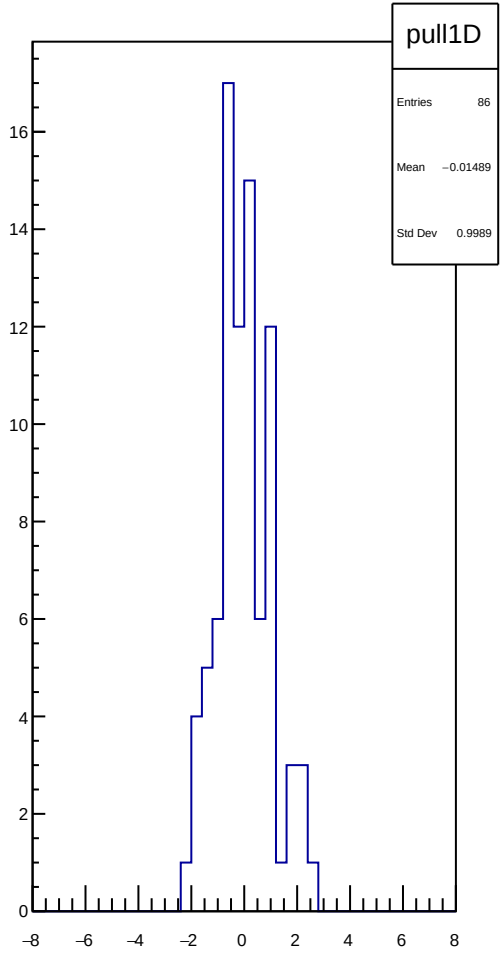

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.05e+04 / 85
p0 56.02 ± 0.04338
220
200
180
160
140
120
100
80
60
40


asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 95.93 / 85
p0 −401.5 ± 239.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 17.08
Std Dev 82.51
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.01097
Std Dev 1.056
22
20
18
16
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 2.956e+04 / 85
p0 217.9 ± 0.1692
400
350
300
250
200
150


eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 85.83 / 85
p0 −28.24 ± 61.35
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −64.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.01489
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
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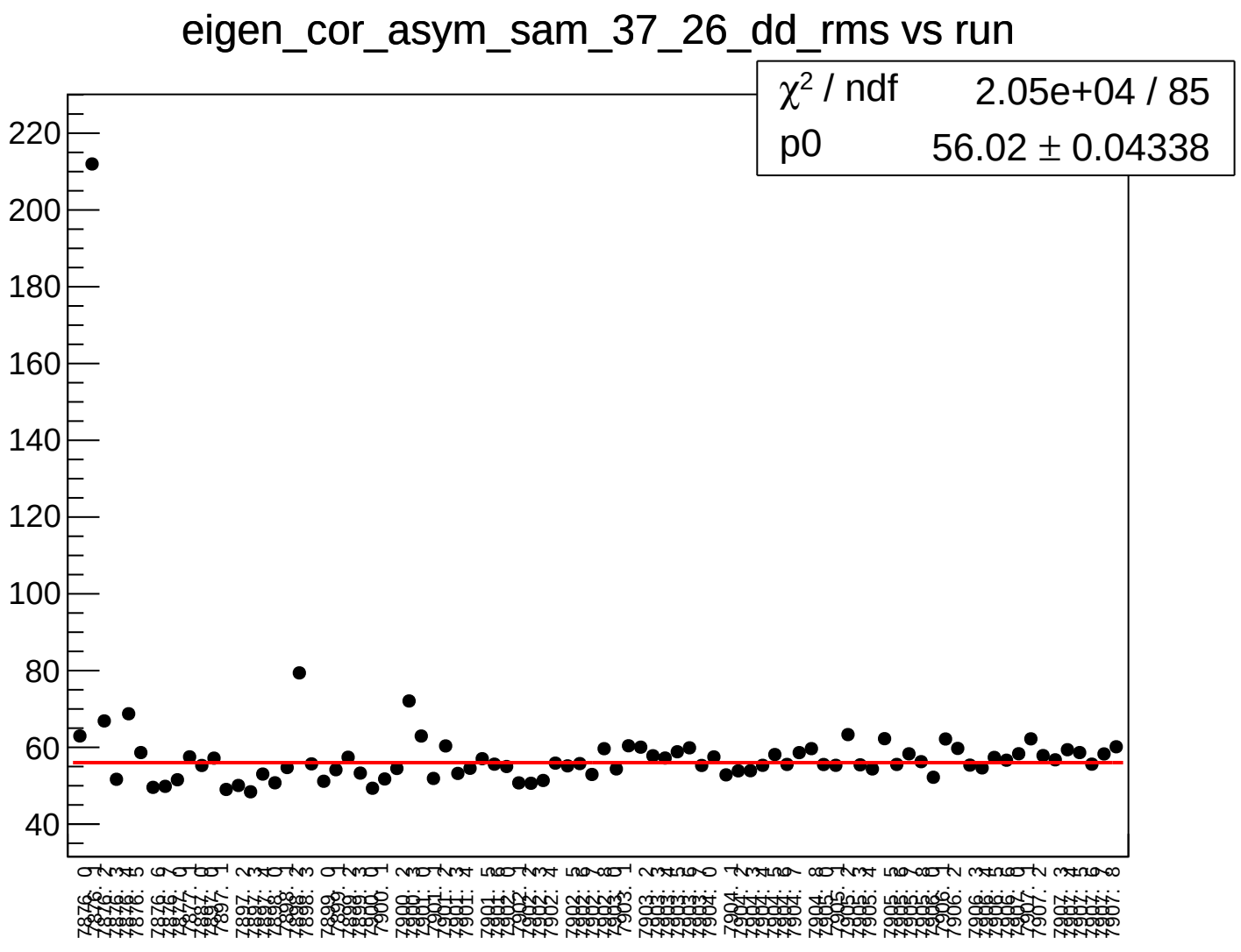
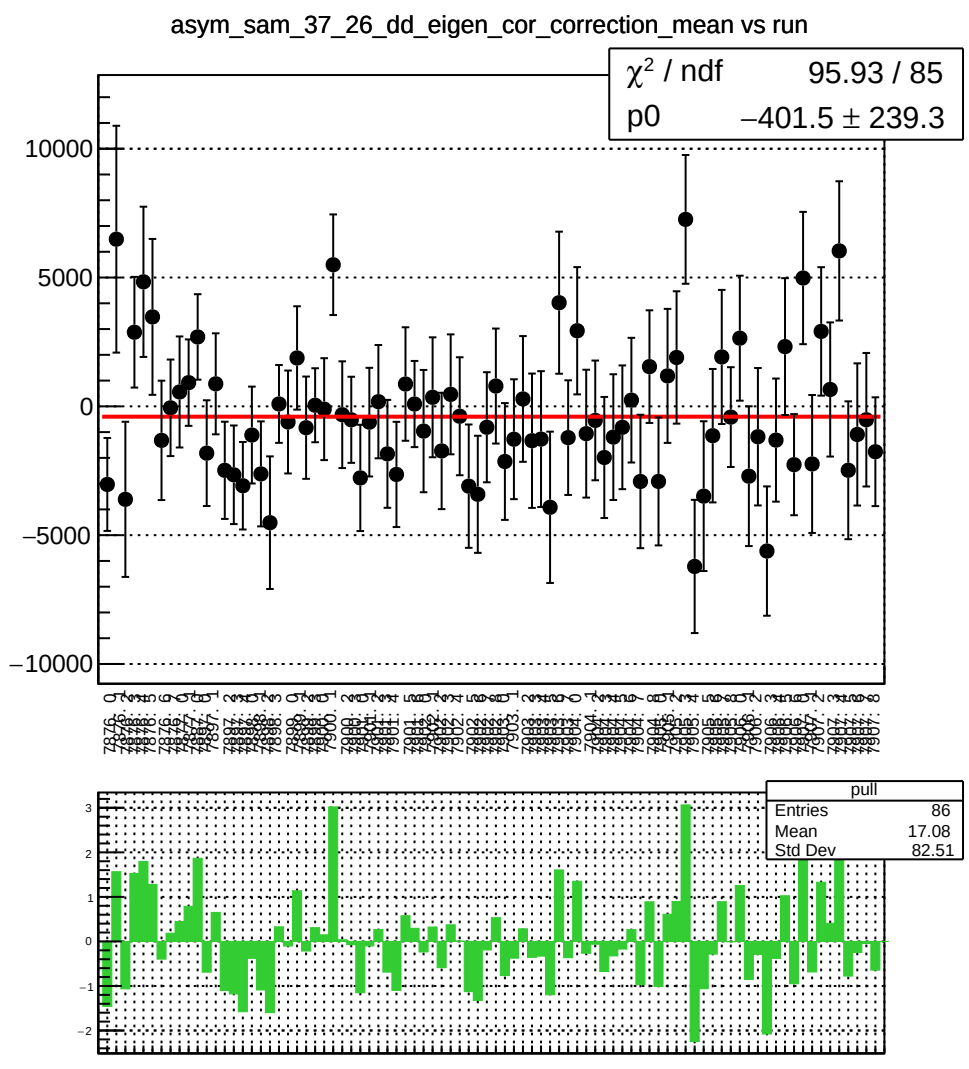
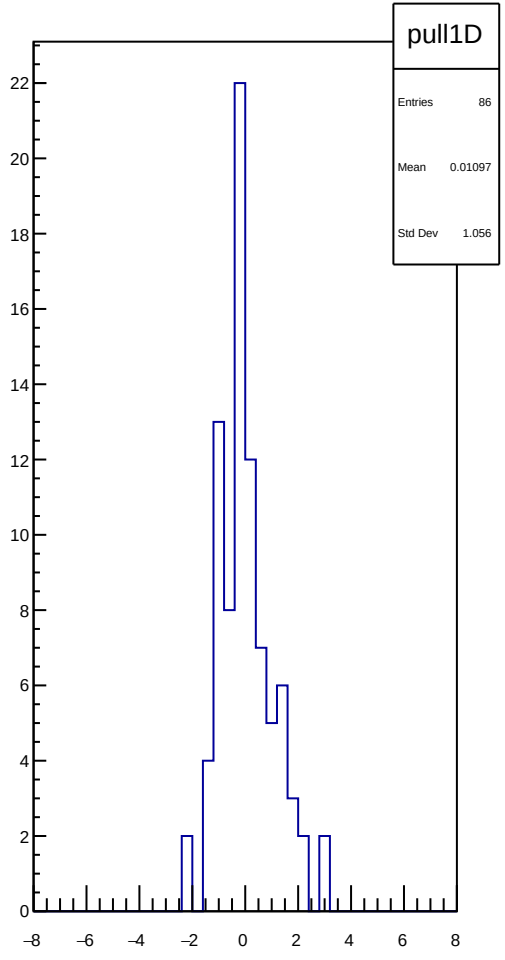
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.05e+04 / 85
p0 56.02 ± 0.04338
220
200
180
160
140
120
100
80
60
40


asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.93 / 85
p0 −401.5 ± 239.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 17.08
Std Dev 82.51
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.01097
Std Dev 1.056
22
20
18
16
14
12
10
8
6
4
2
0
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−4
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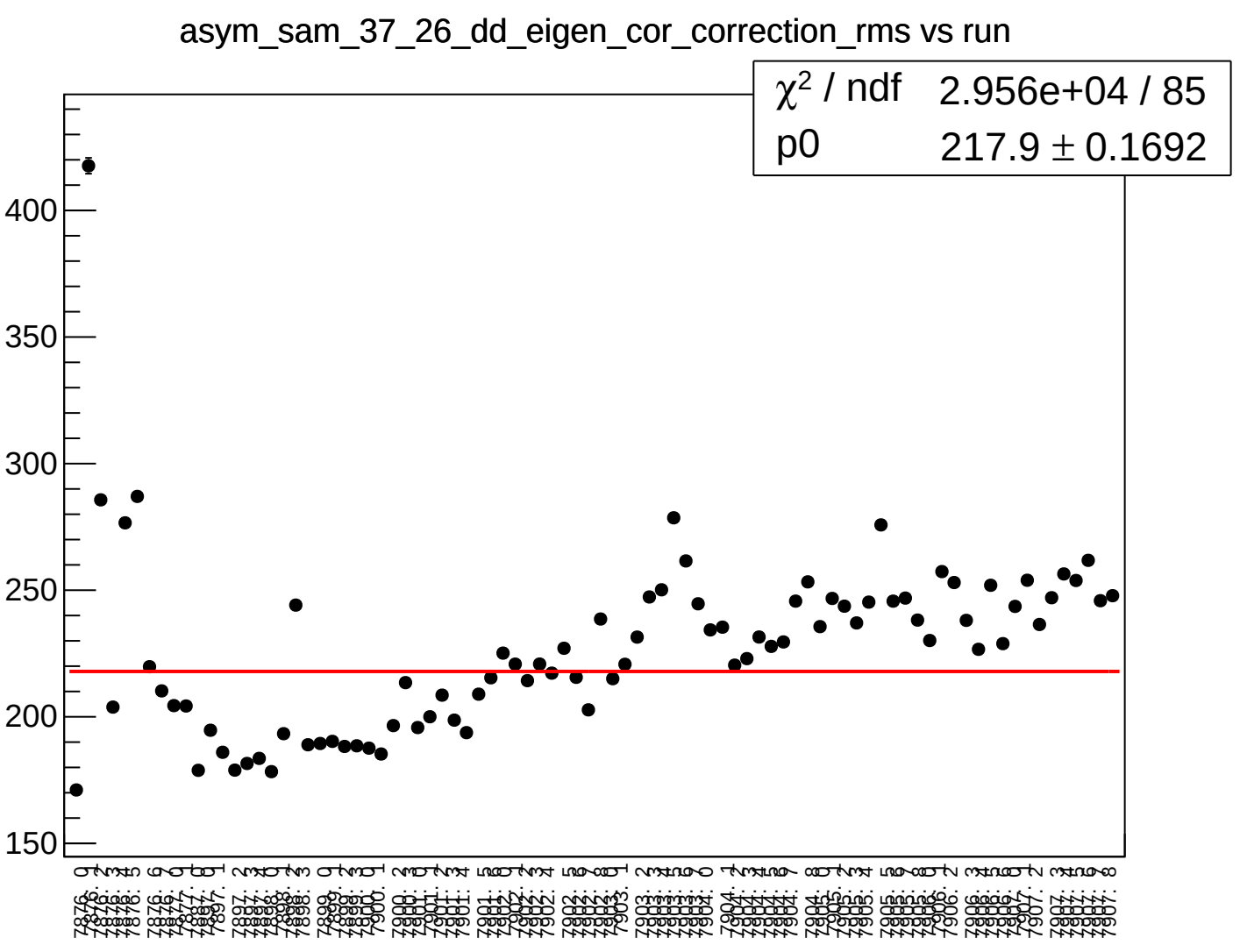
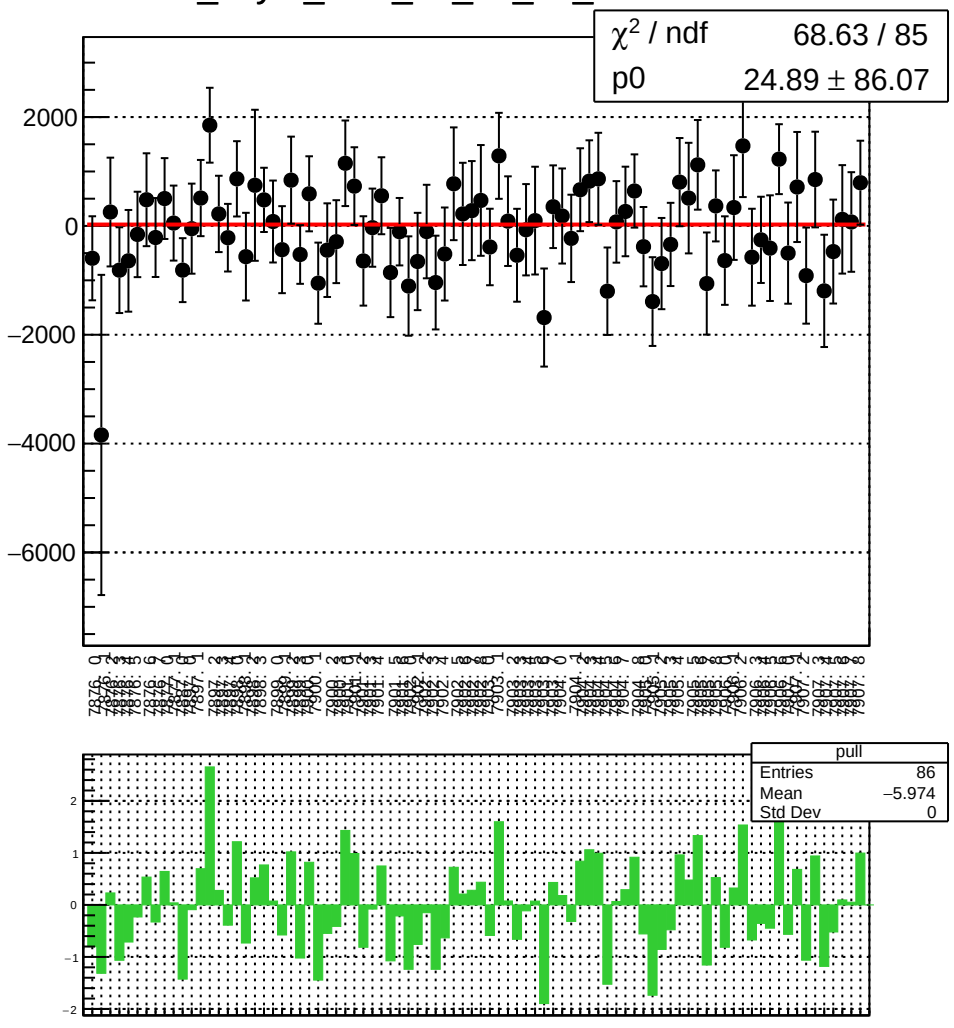
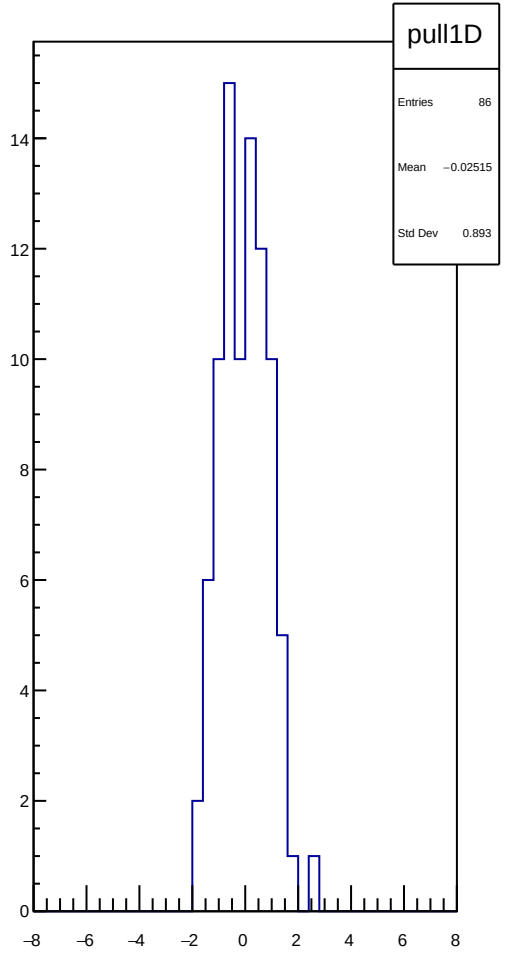
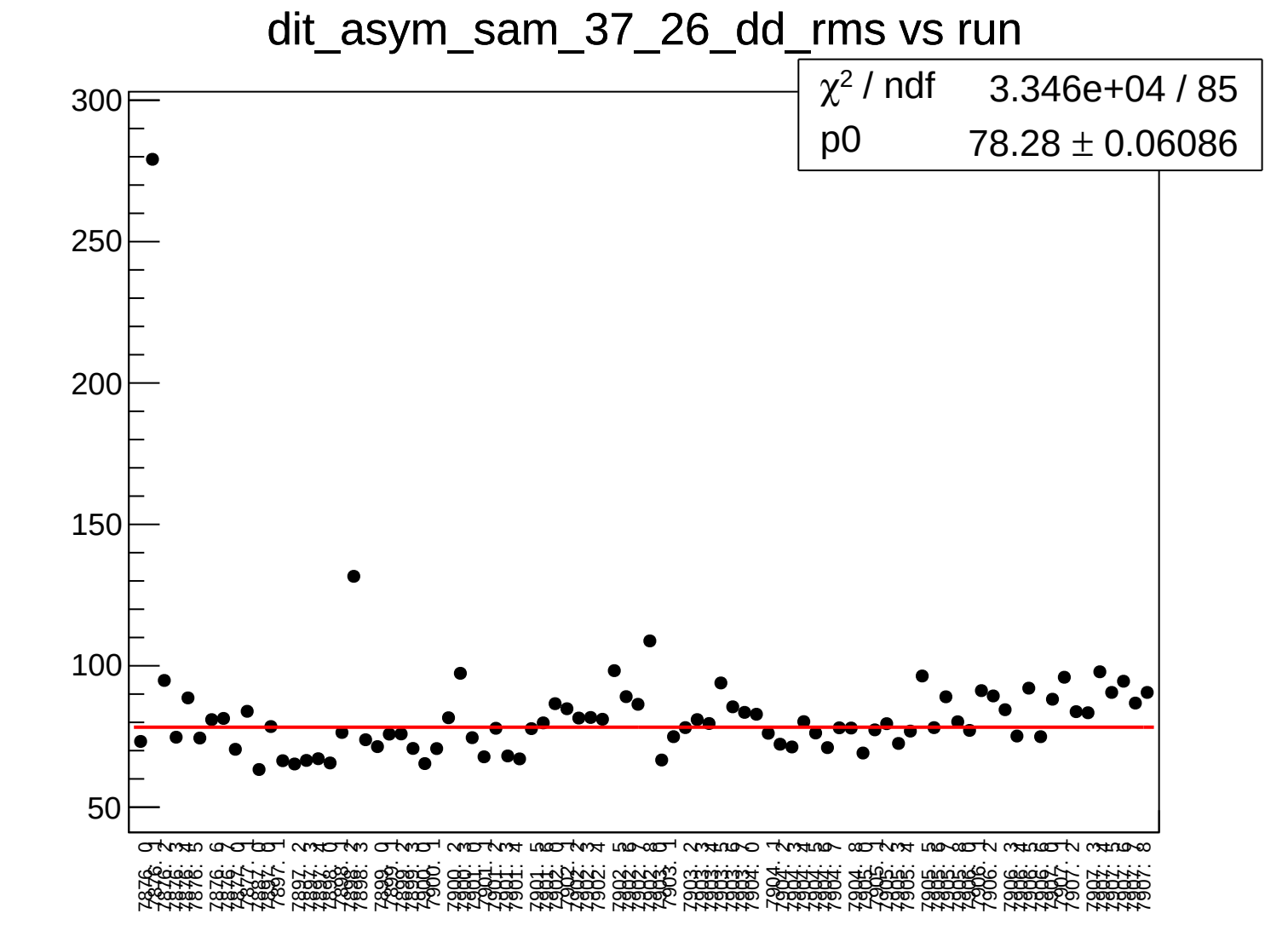
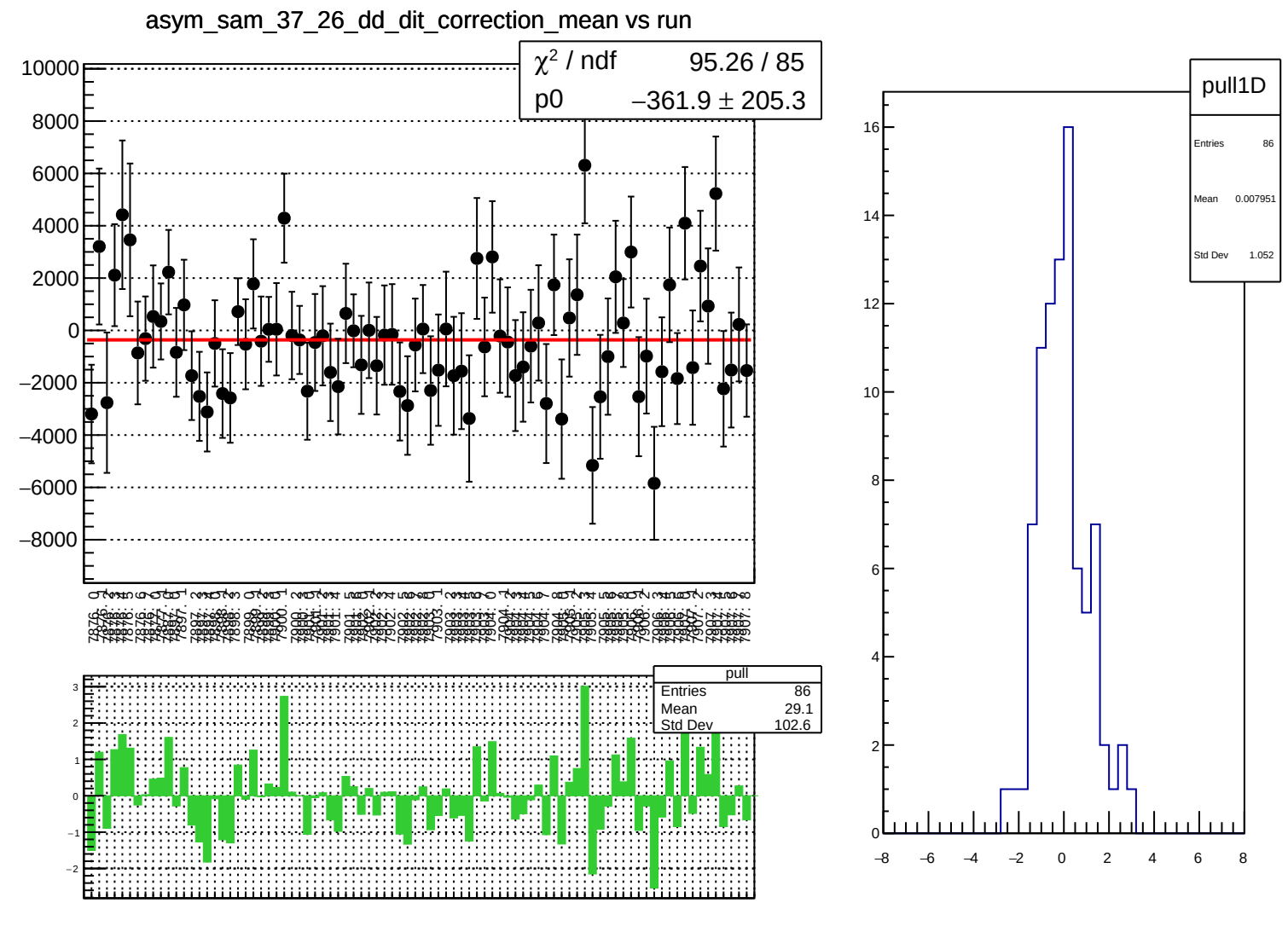
0
2
4
6
8

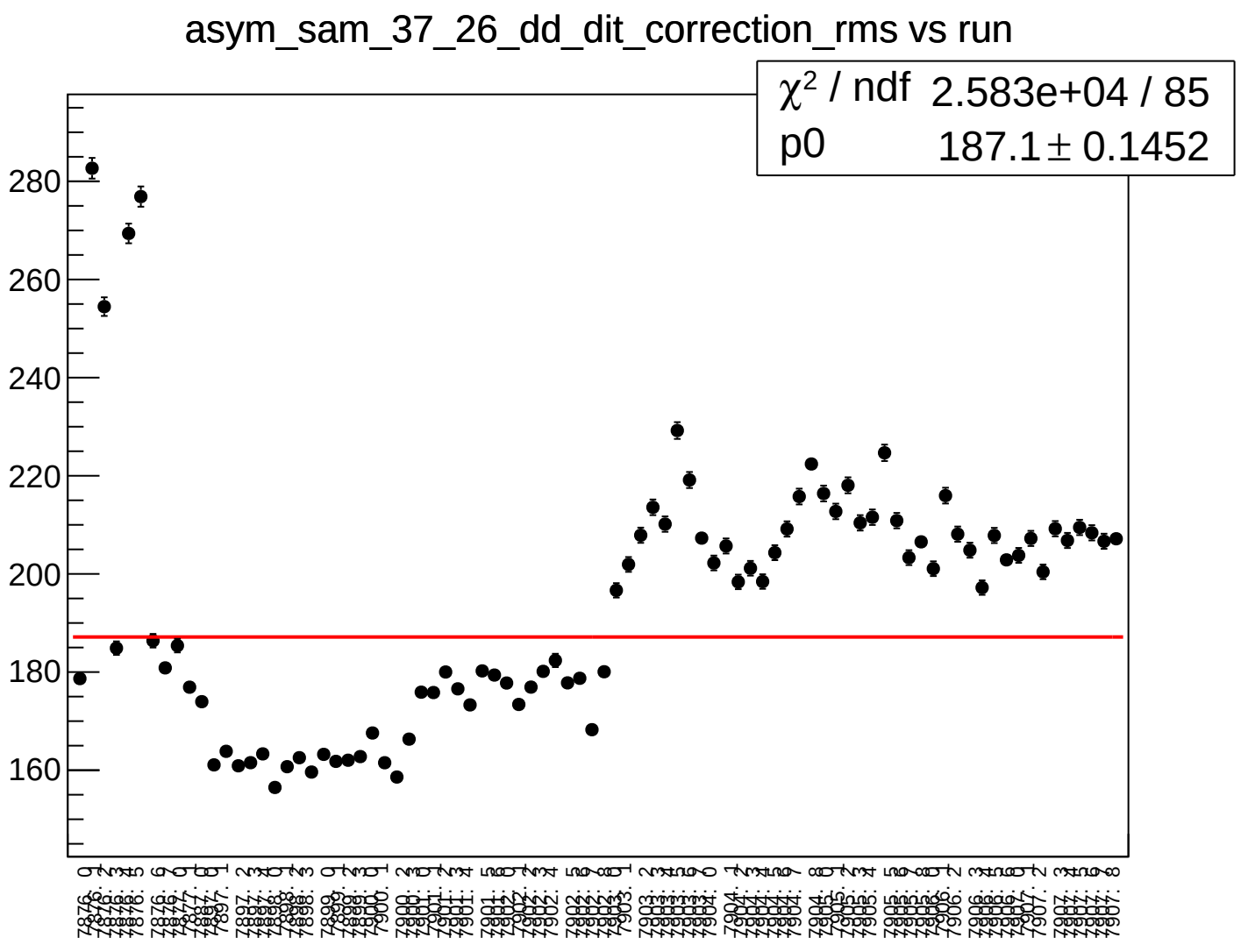

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 2.956e+04 / 85
p0 217.9 ± 0.1692
400
350
300
250
200
150

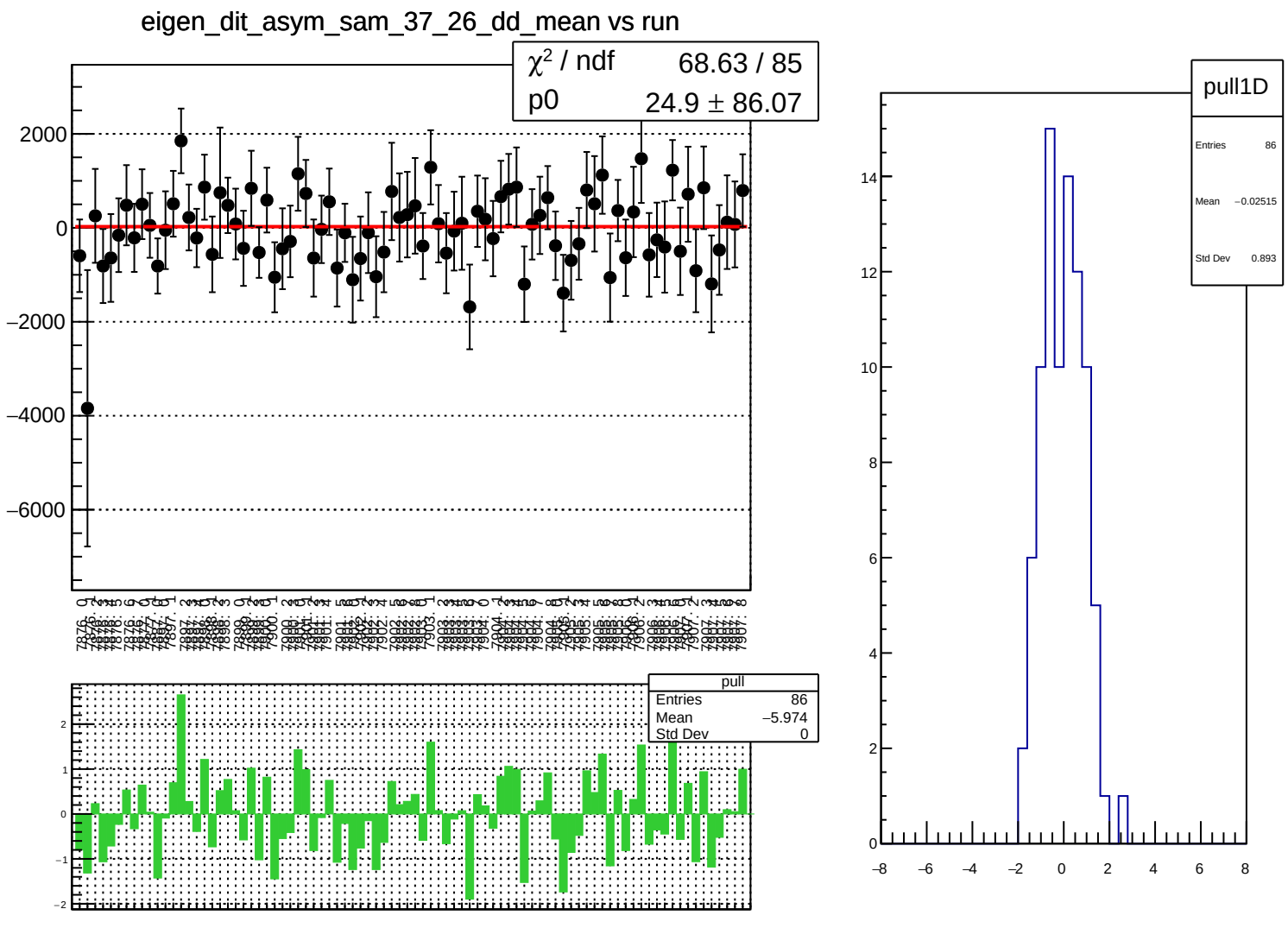

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 68.63 / 85
p0 24.89 ± 86.07
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −5.974
Std Dev 0
2
1
0
−1
−2

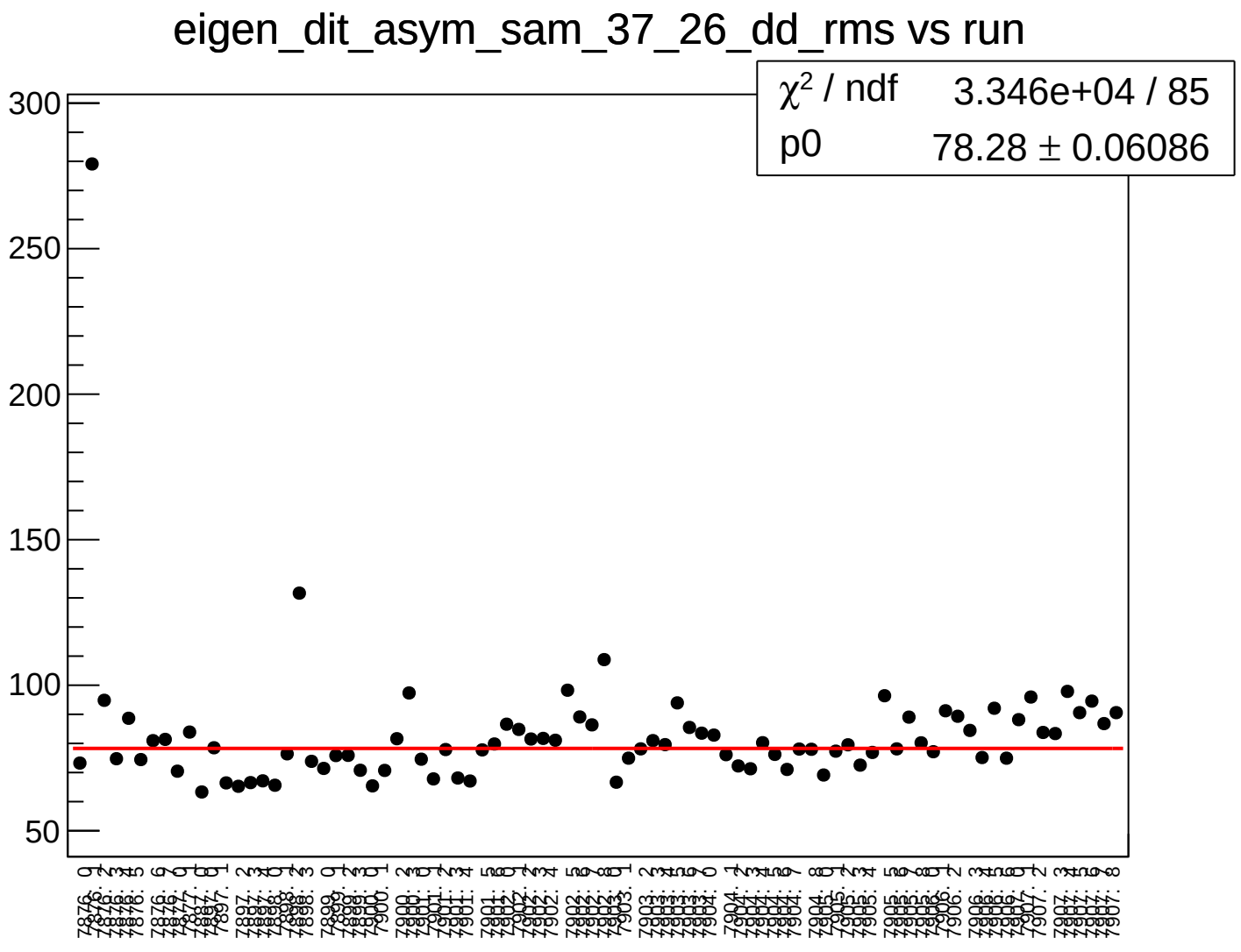

pull1D
Entries 86
Mean −0.02515
Std Dev 0.893
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

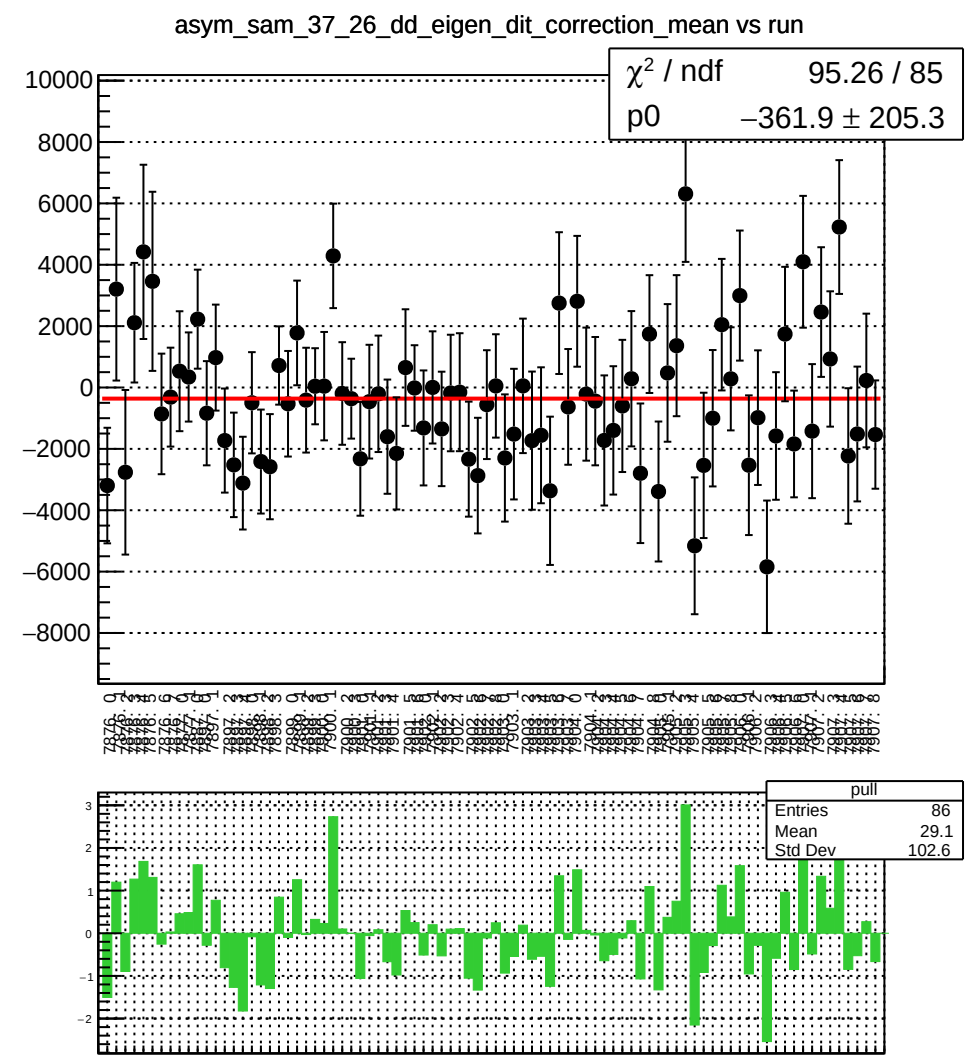

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 3.346e+04 / 85
p0 78.28 ± 0.06086
300
250
200
150
100
50

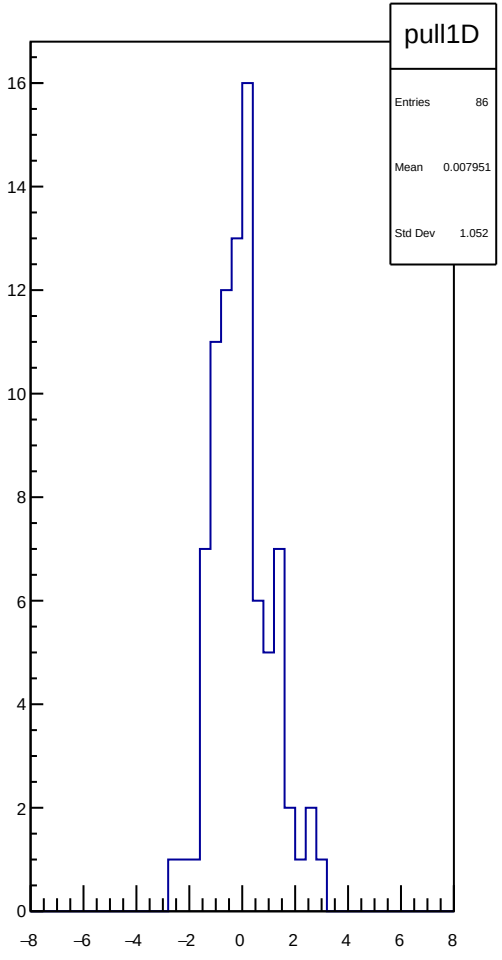

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 95.26 / 85
p0 −361.9 ± 205.3
pull
Entries 86
Mean 29.1
Std Dev 102.6
pull1D
Entries 86
Mean 0.007951
Std Dev 1.052

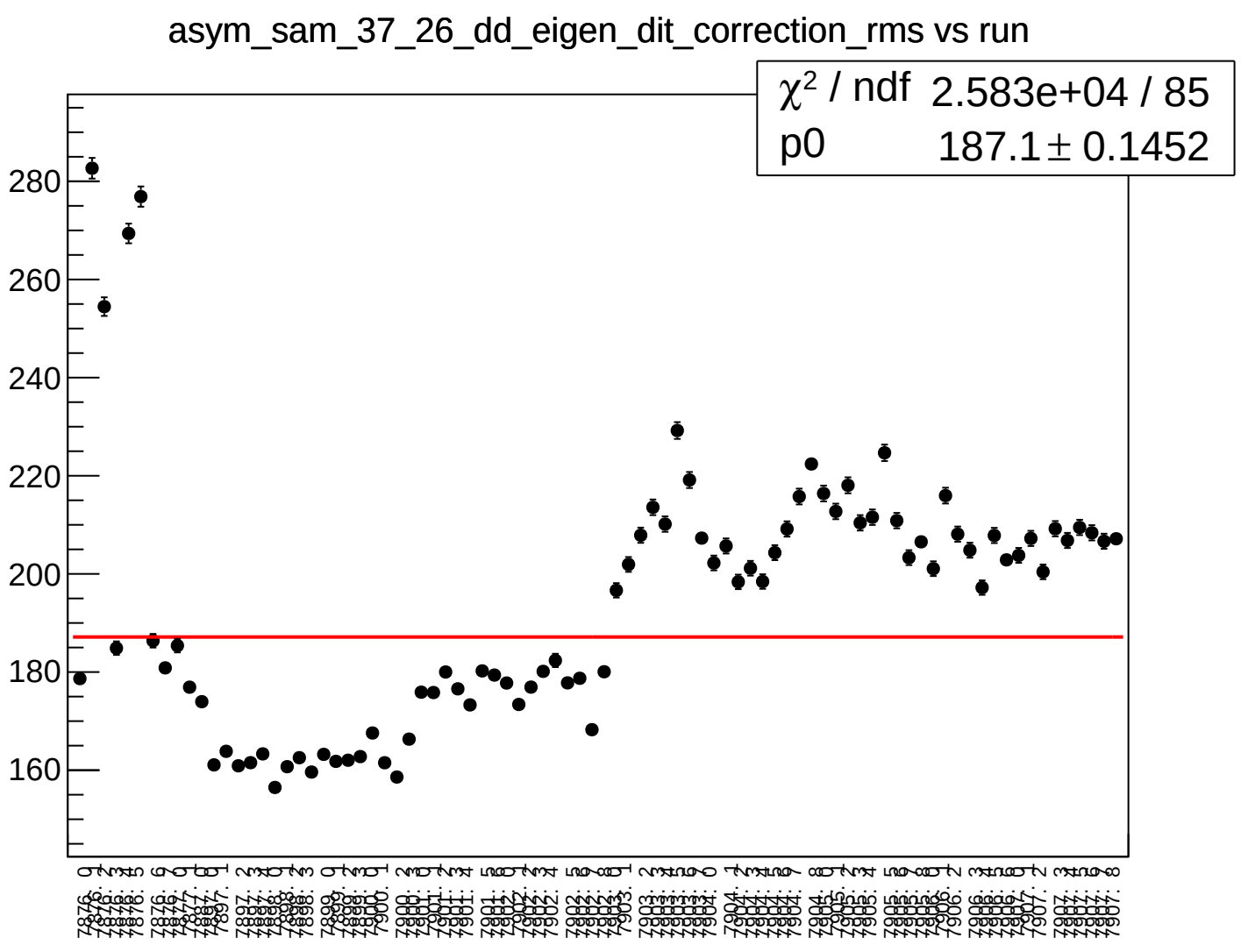

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 2.583e+04 / 85
p0 187.1 ± 0.1452
280
260
240
220
200
180
160

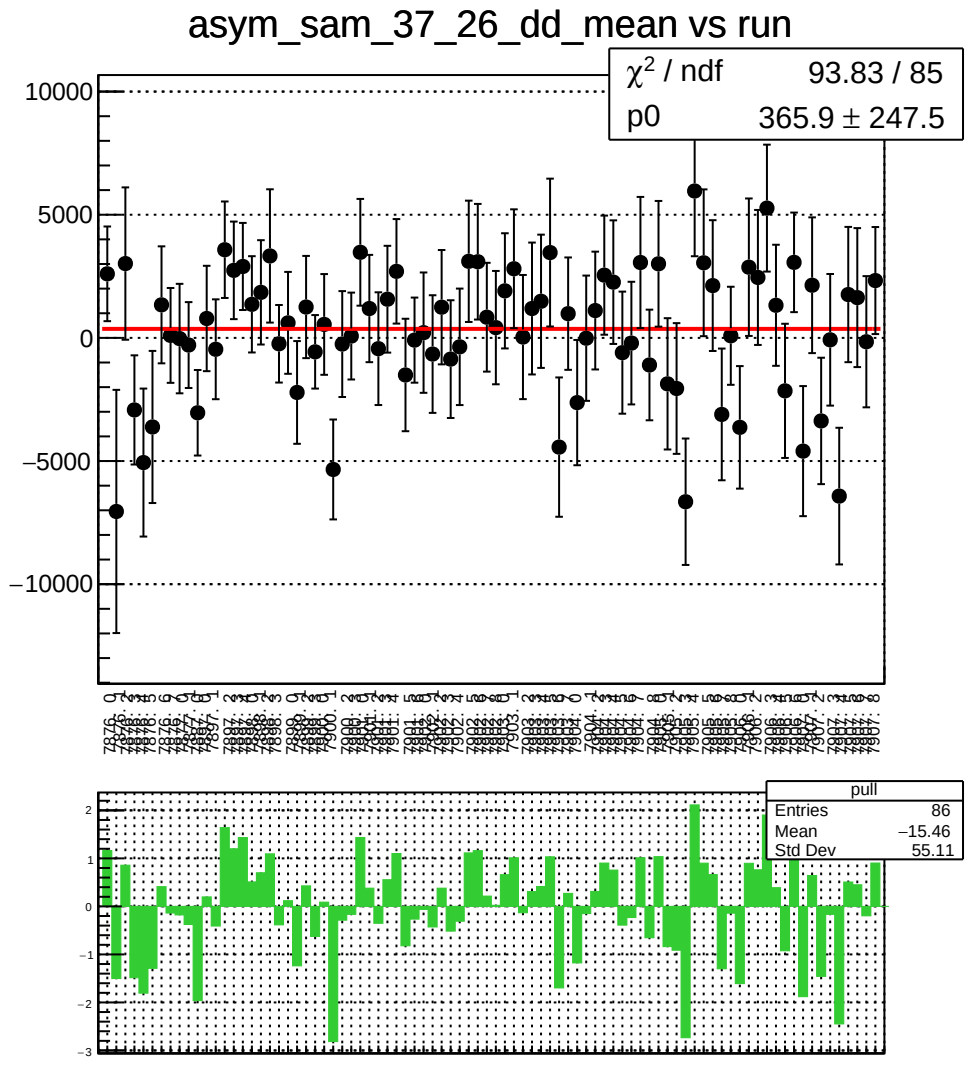

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 68.63 / 85
p0 24.9 ± 86.07
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −5.974
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.02515
Std Dev 0.893
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

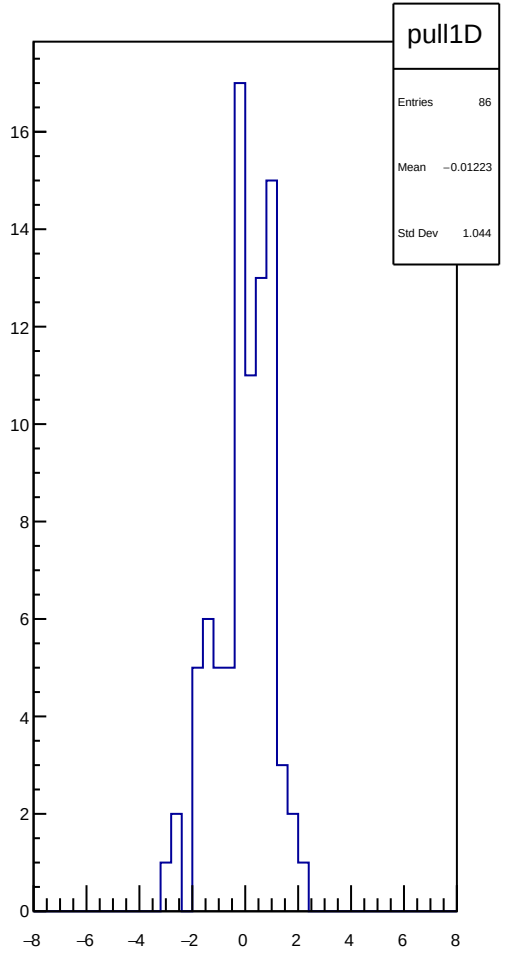

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 3.346e+04 / 85
p0 78.28 ± 0.06086
300
250
200
150
100
50

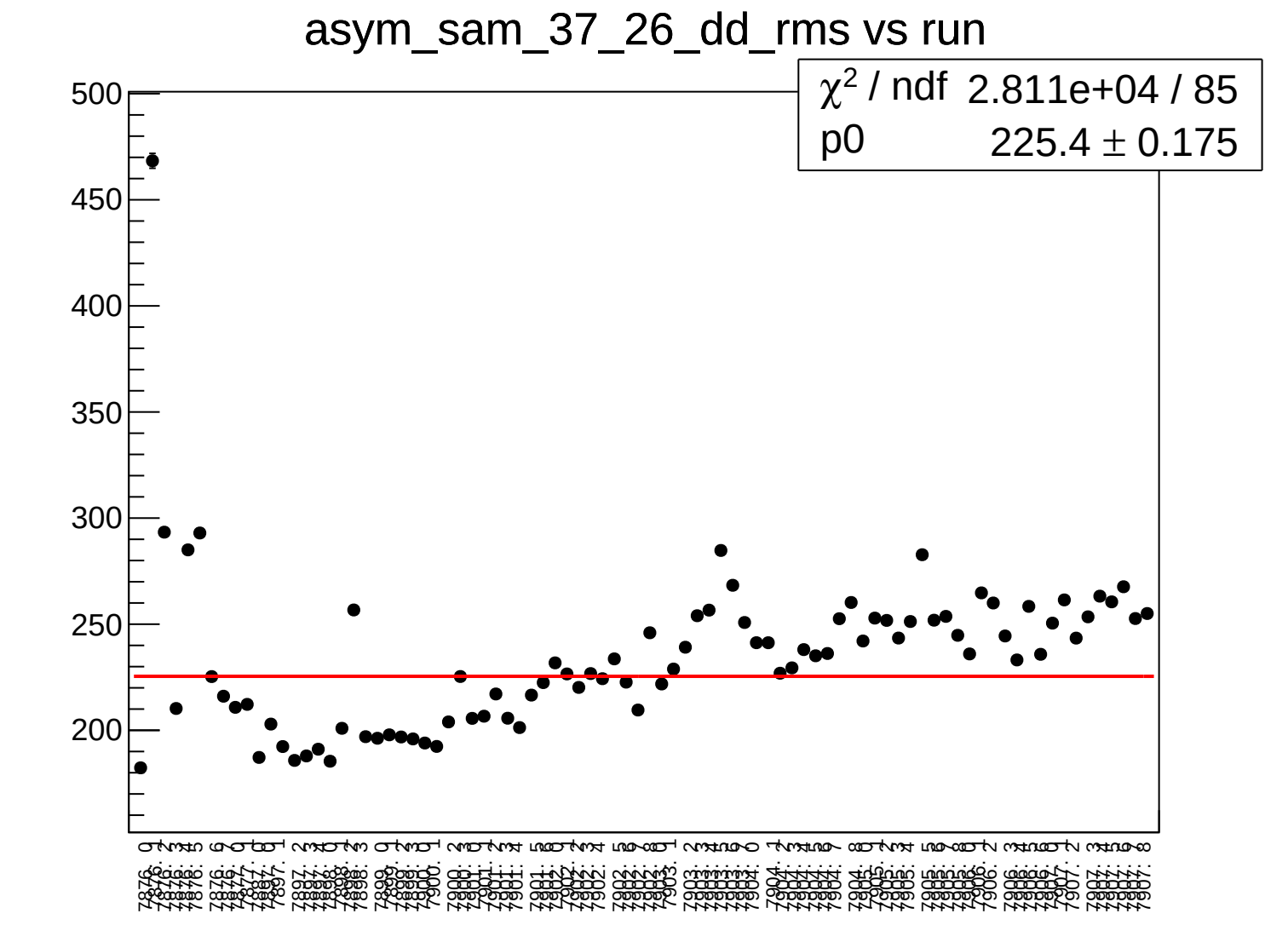

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.26 / 85
p0 −361.9 ± 205.3
pull
Entries 86
Mean 29.1
Std Dev 102.6

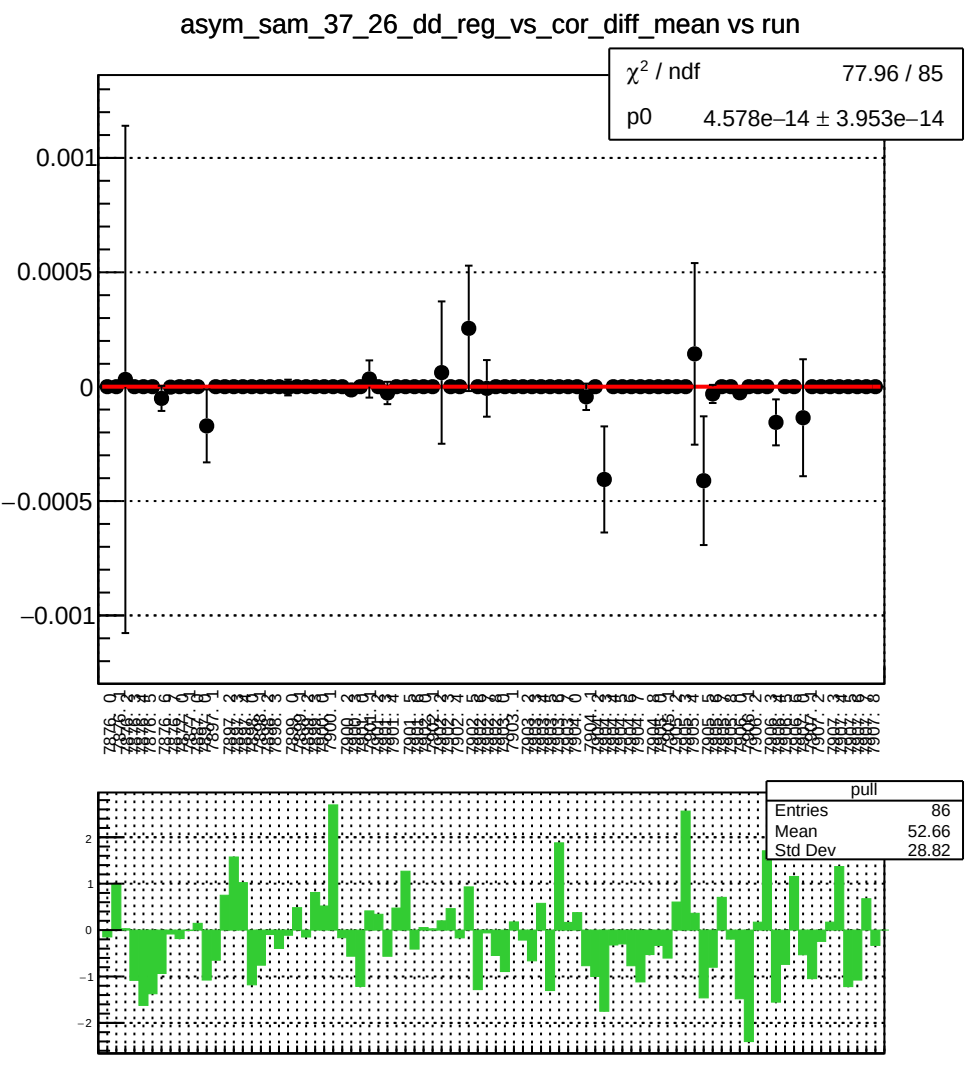

pull1D
Entries 86
Mean 0.007951
Std Dev 1.052

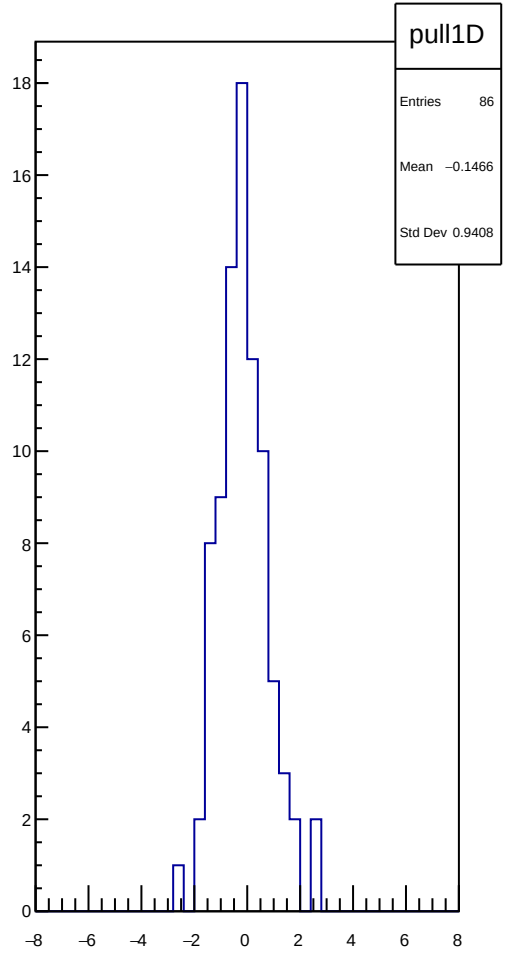

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.583e+04 / 85
p0 187.1 ± 0.1452
280
260
240
220
200
180
160

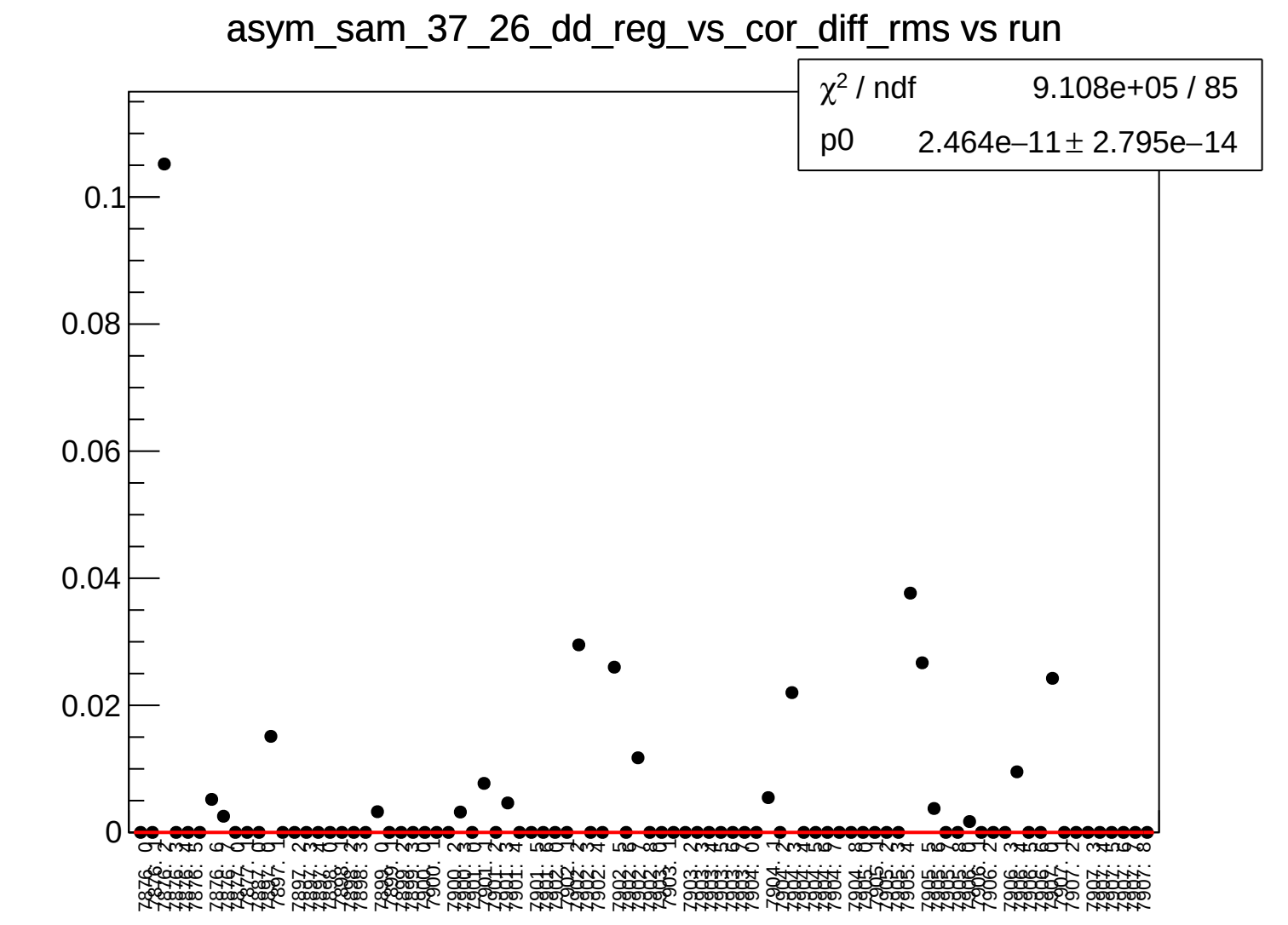

asym_sam_37_26_dd_mean vs run
χ² / ndf 93.83 / 85
p0 365.9 ± 247.5
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −15.46
Std Dev 55.11
2
1
0
−1
−2
−3

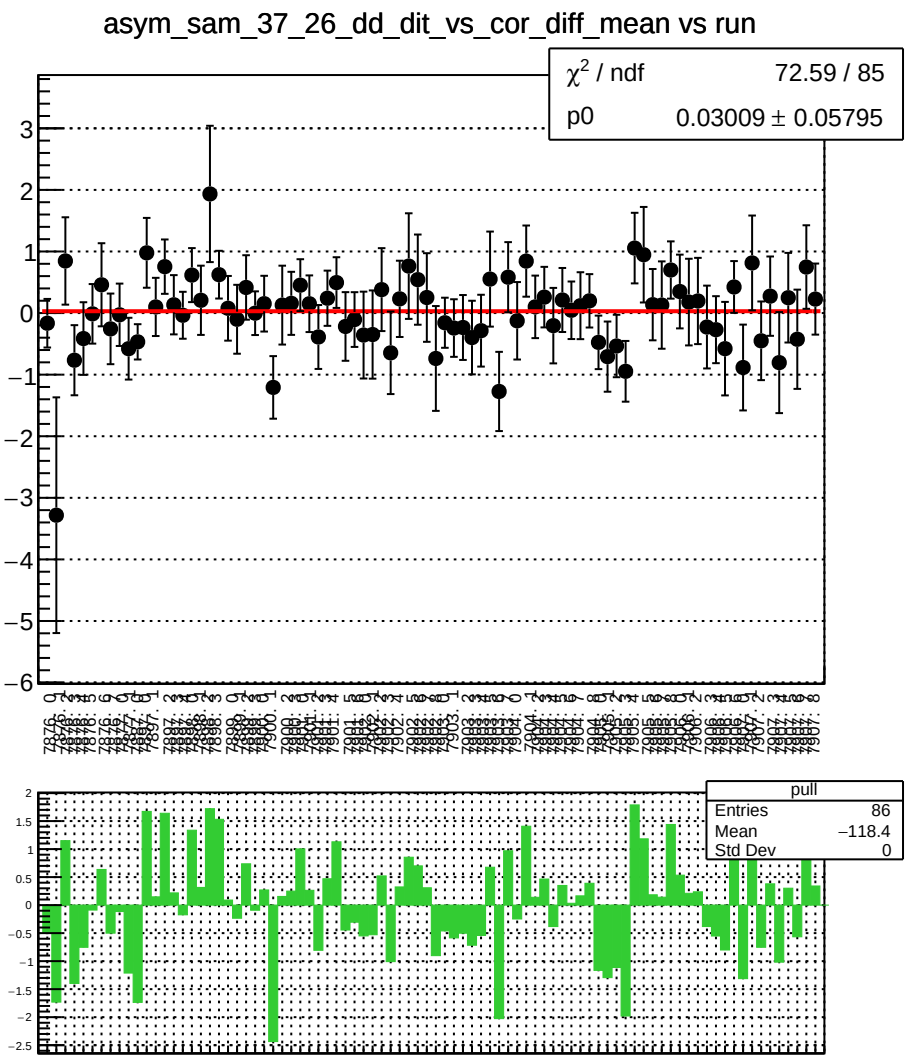

pull1D
Entries 86
Mean −0.01223
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

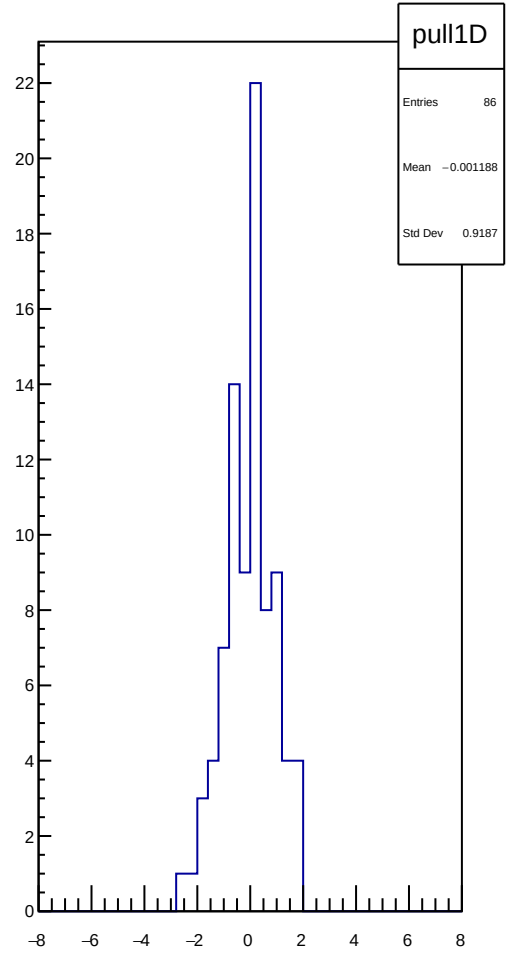

asym_sam_37_26_dd_rms vs run
χ² / ndf 2.811e+04 / 85
p0 225.4 ± 0.175
500
450
400
350
300
250
200

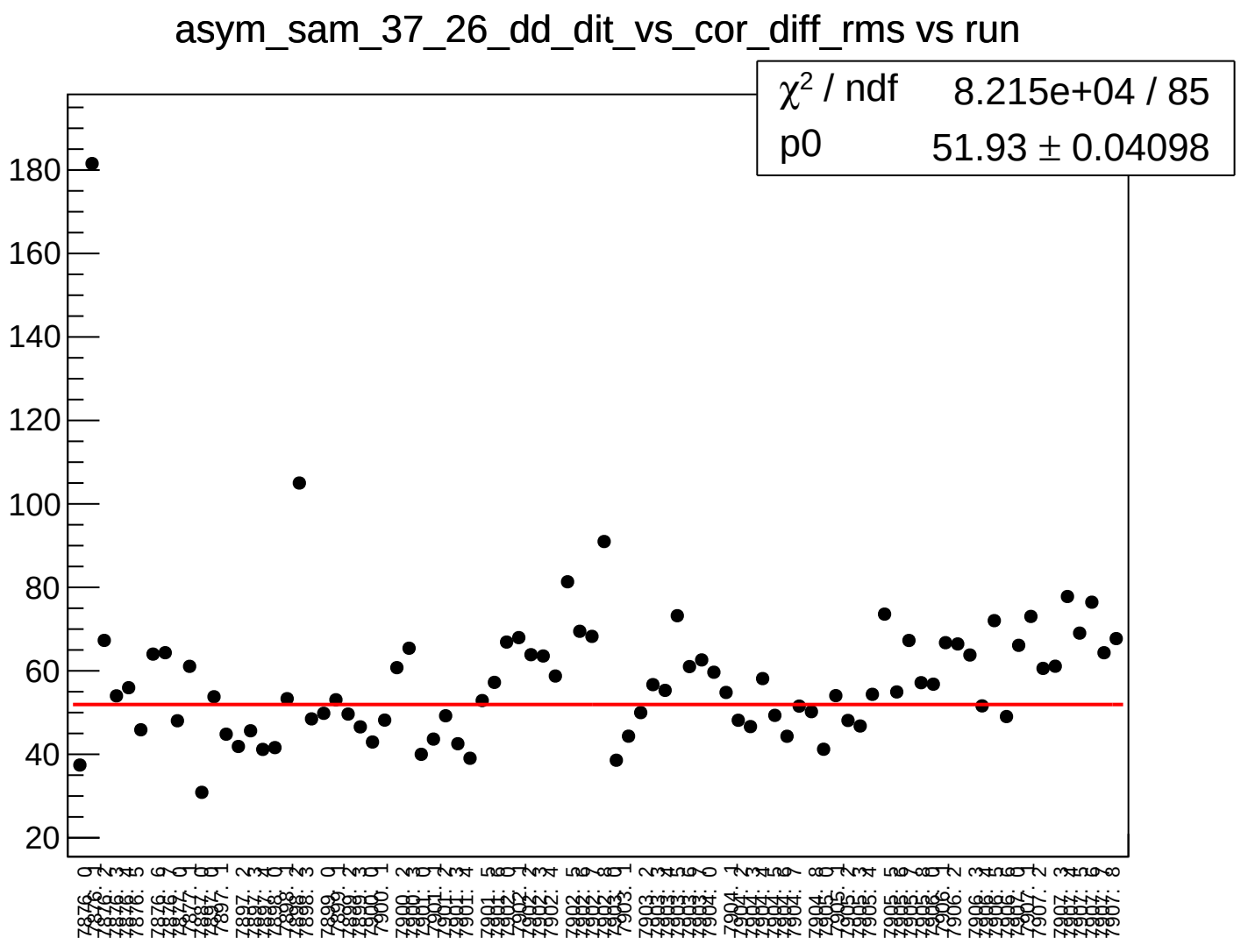

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.96 / 85
p0 4.578e−14 ± 3.953e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 52.66
Std Dev 28.82
2
1
0
−1
−2

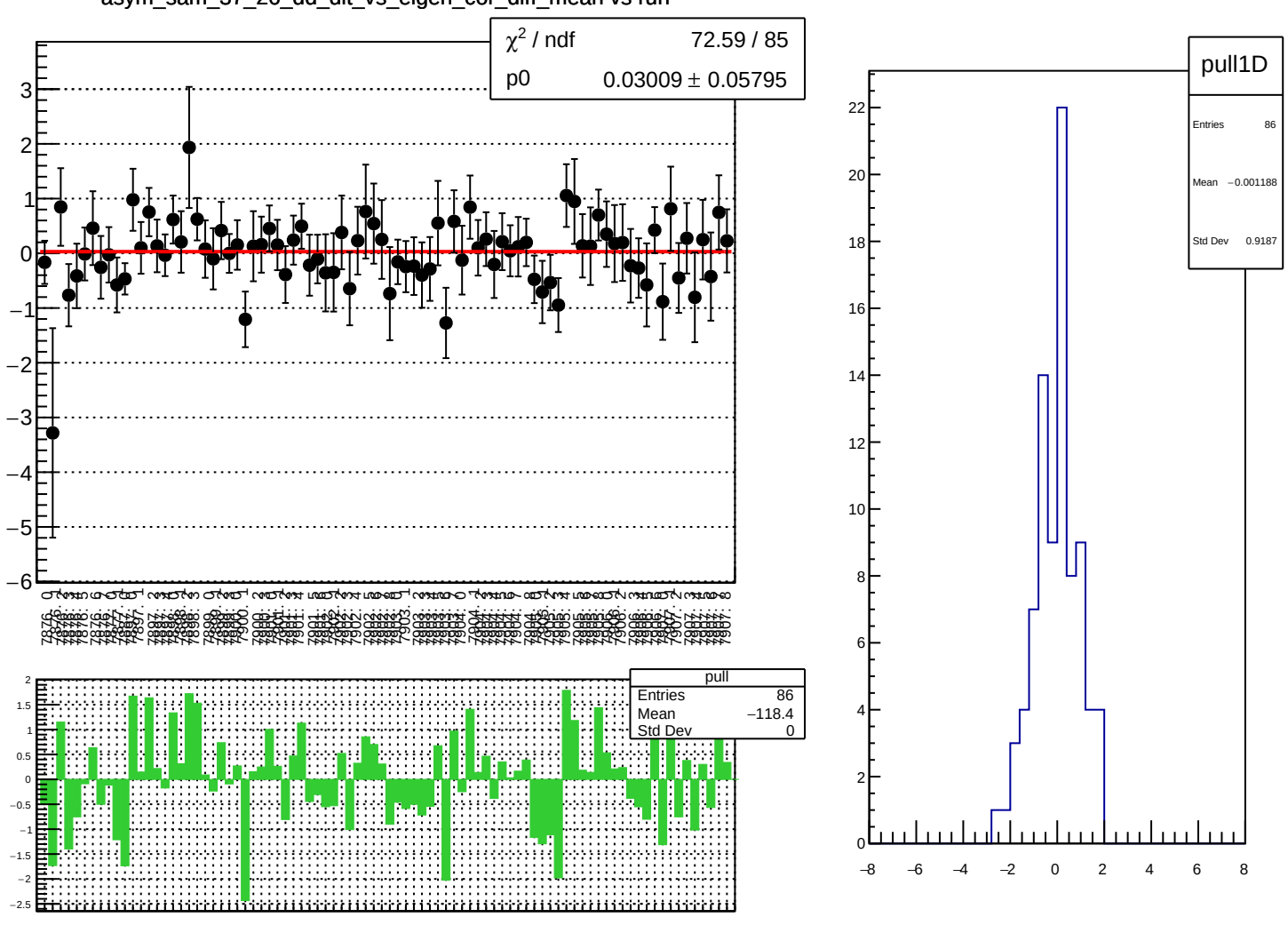

pull1D
Entries 86
Mean −0.1466
Std Dev 0.9408
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

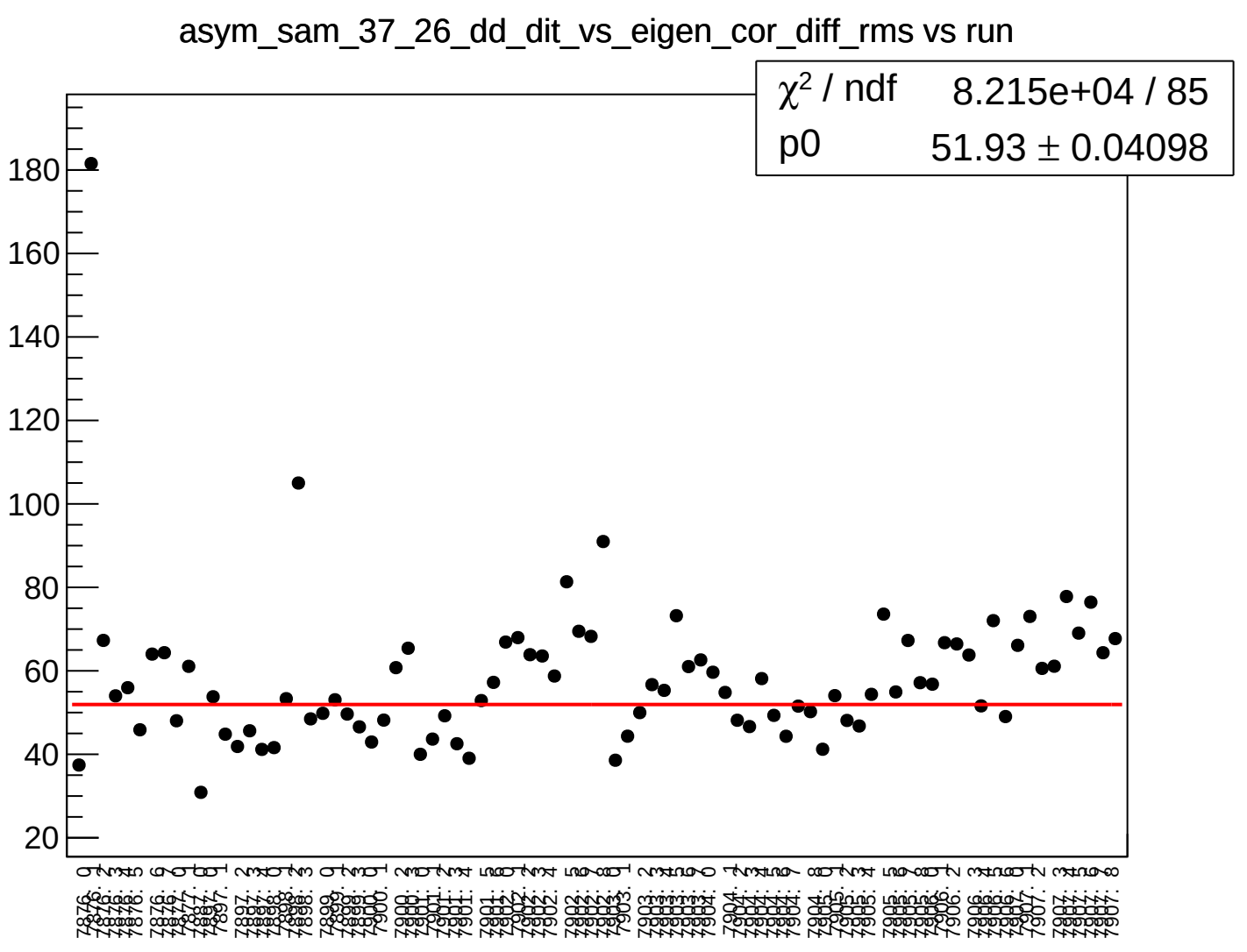

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.108e+05 / 85
p0 2.464e−11 ± 2.795e−14
0.1
0.08
0.06
0.04
0.02
0

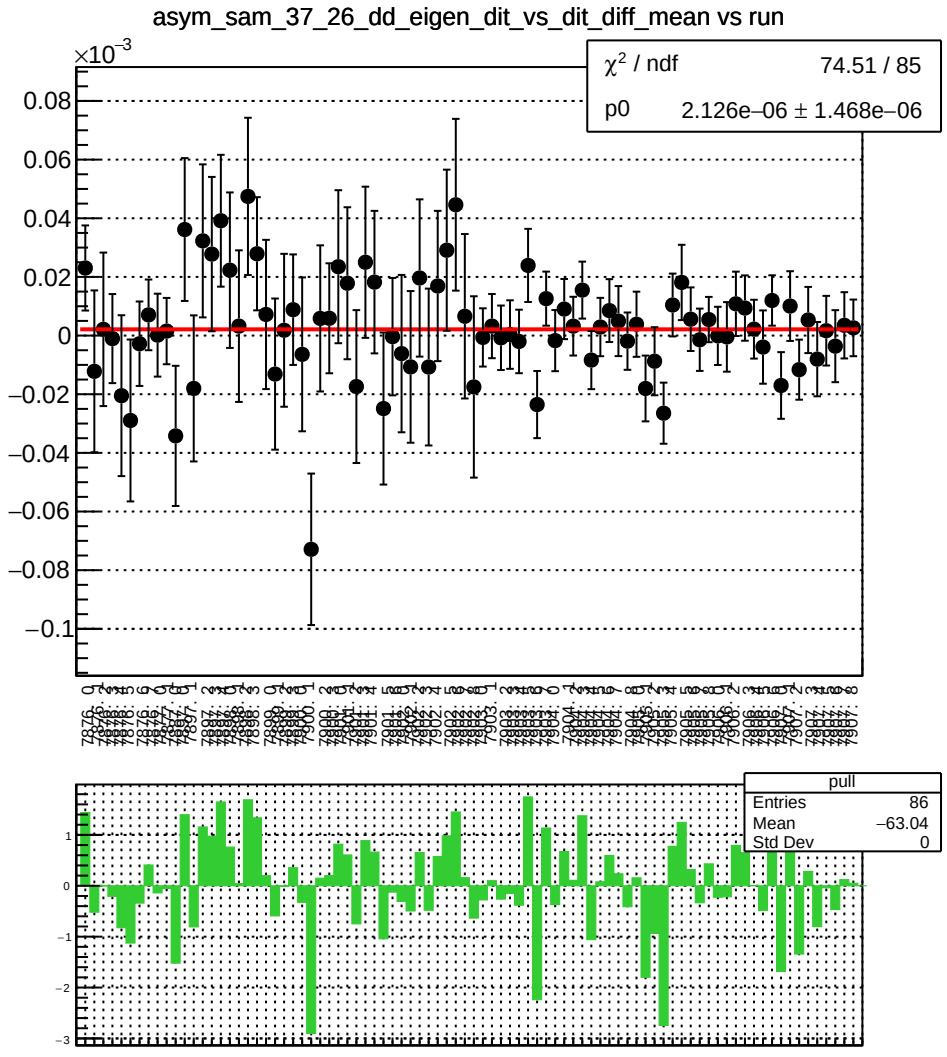

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.59 / 85
p0 0.03009 ± 0.05795
pull
Entries 86
Mean −118.4
Std Dev 0

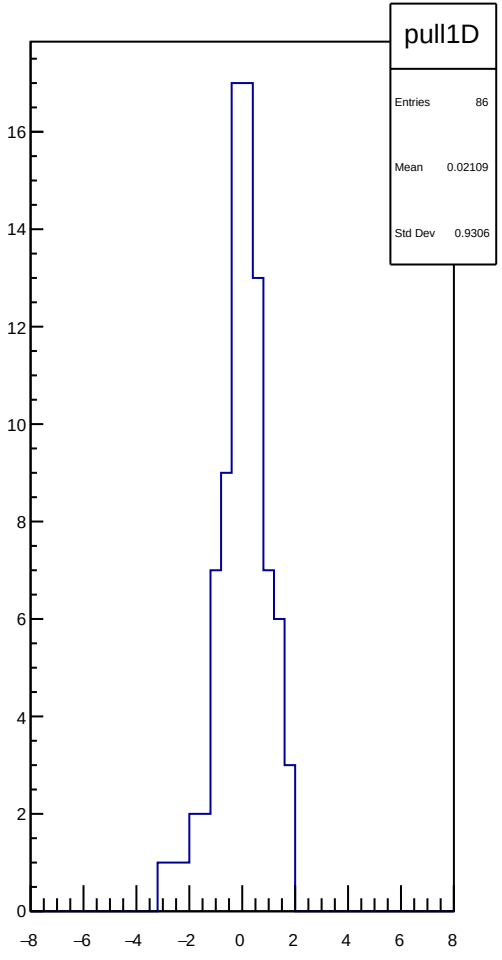

pull1D
Entries 86
Mean −0.001188
Std Dev 0.9187

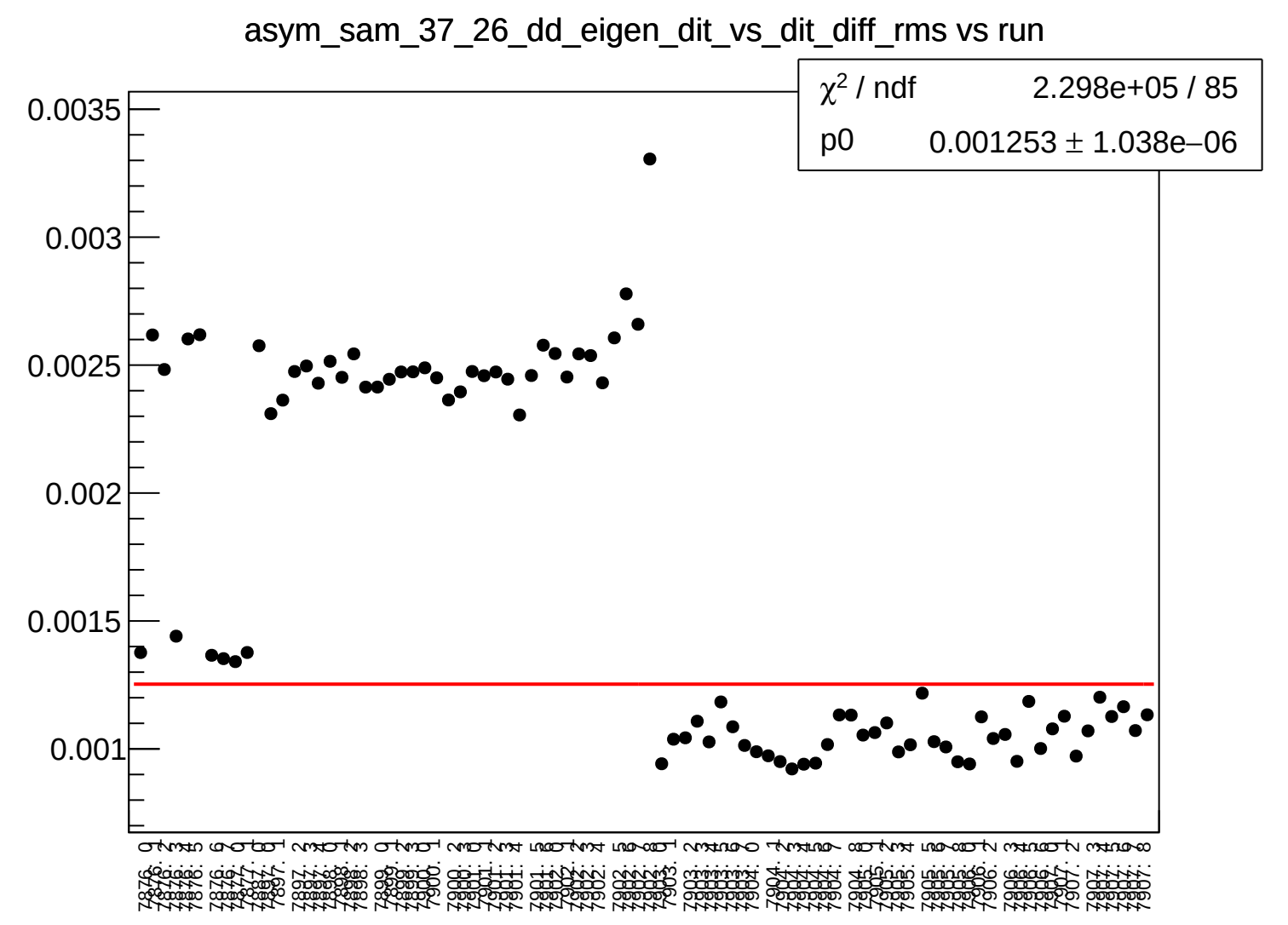

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.215e+04 / 85
p0 51.93 ± 0.04098
180
160
140
120
100
80
60
40
20

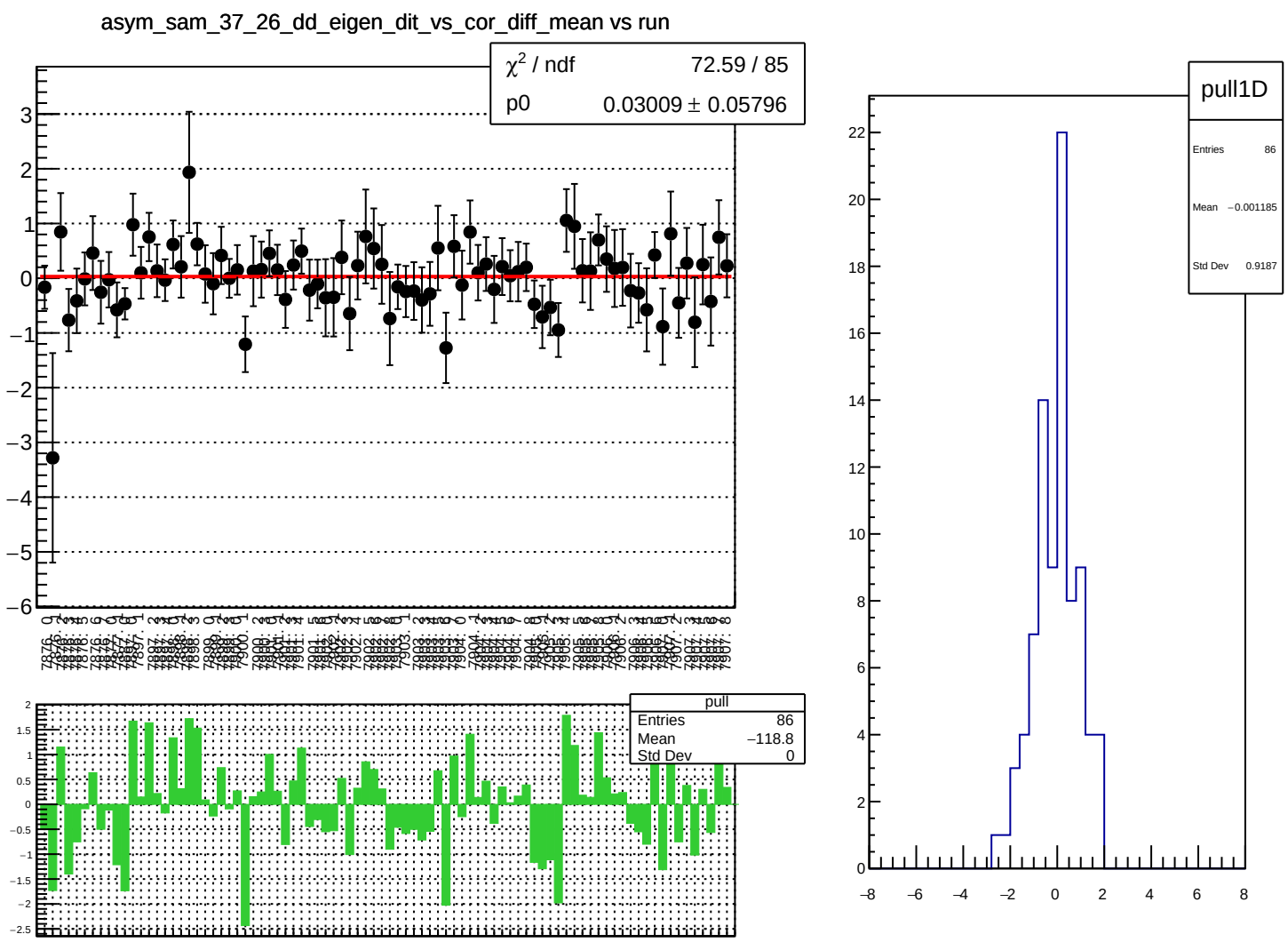

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.59 / 85
p0 0.03009 ± 0.05795
pull
Entries 86
Mean −118.4
Std Dev 0
pull1D
Entries 86
Mean −0.001188
Std Dev 0.9187

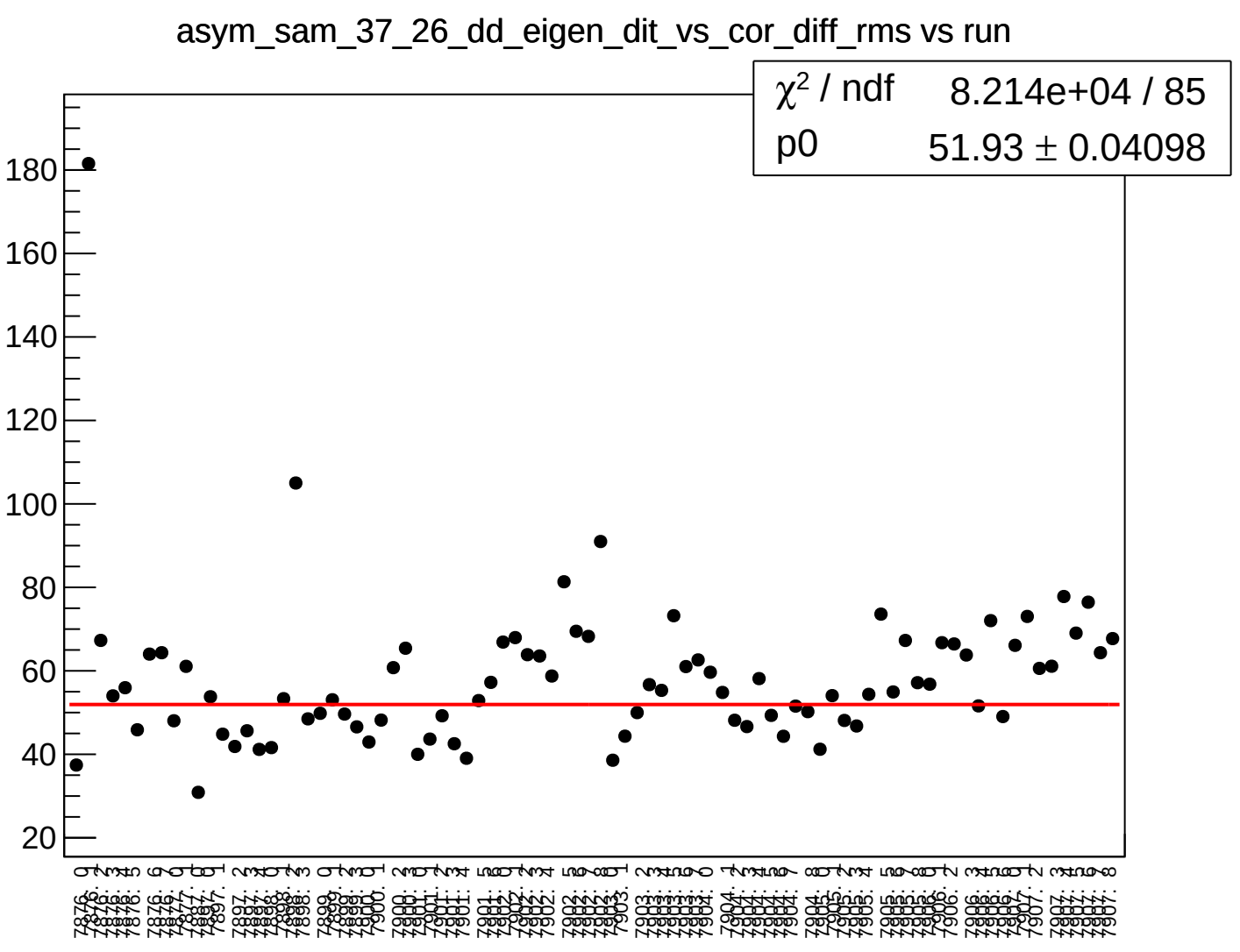

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.215e+04 / 85
p0 51.93 ± 0.04098
180
160
140
120
100
80
60
40
20

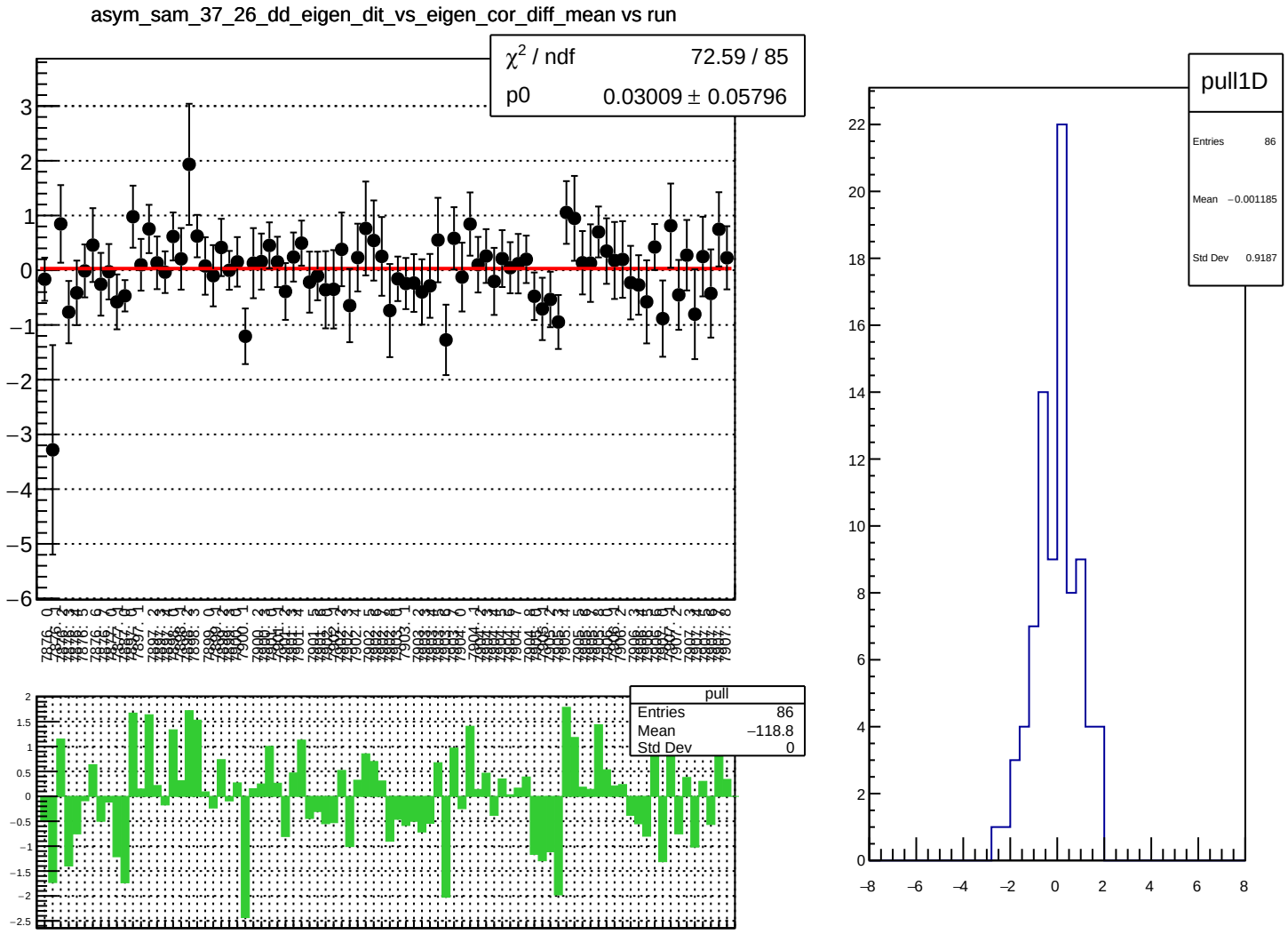

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.51 / 85
p0 2.126e−06 ± 1.468e−06
pull
Entries 86
Mean −63.04
Std Dev 0

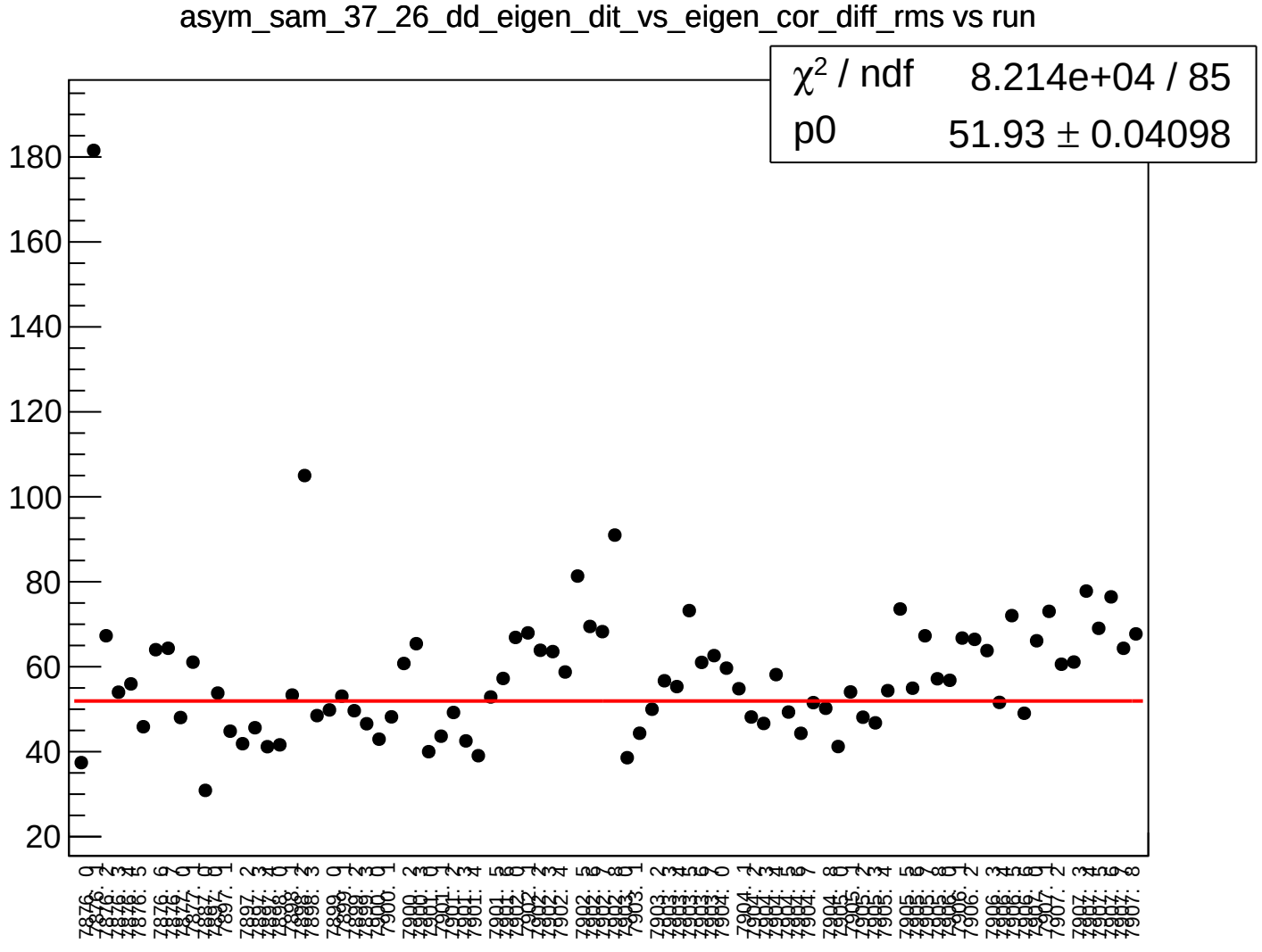

pull1D
Entries 86
Mean 0.02109
Std Dev 0.9306

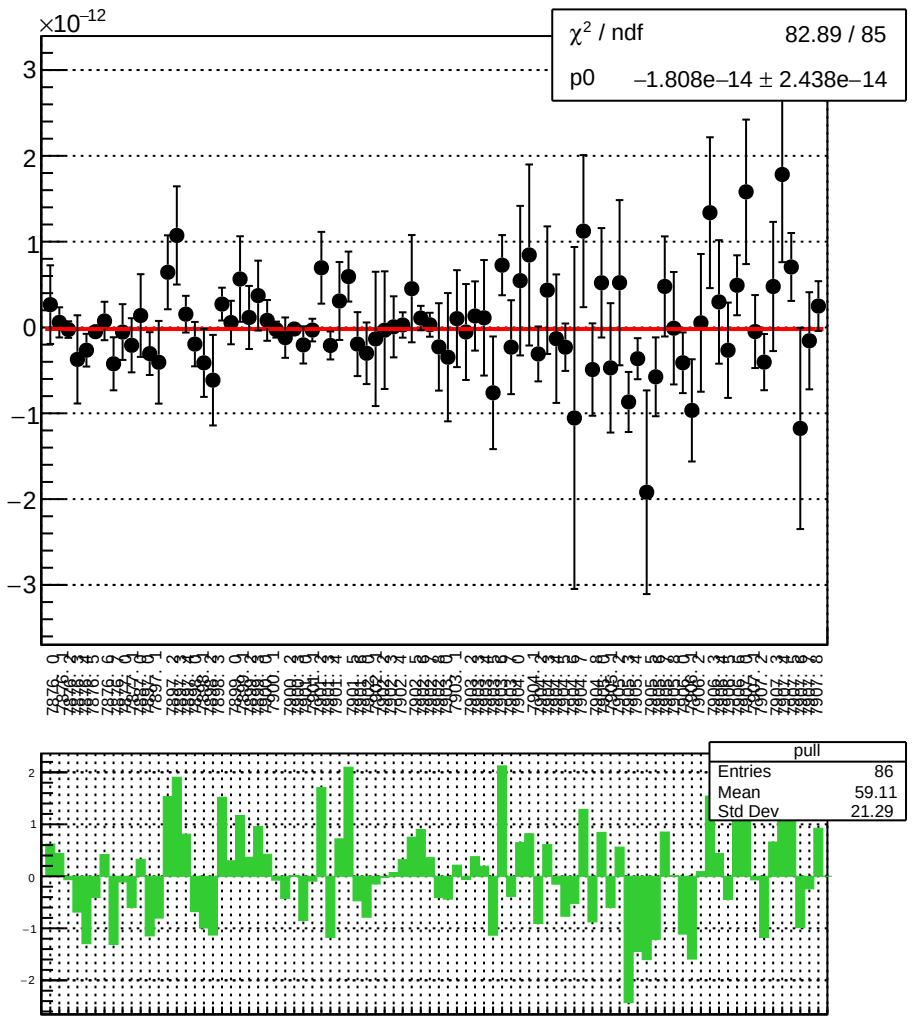

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.298e+05 / 85
p0 0.001253 ± 1.038e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

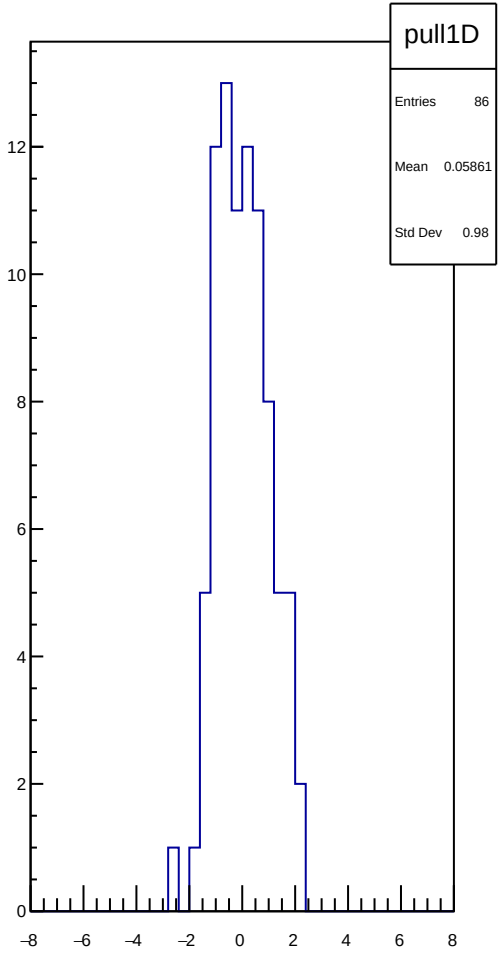

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.59 / 85
p0 0.03009 ± 0.05796
pull
Entries 86
Mean −118.8
Std Dev 0
pull1D
Entries 86
Mean −0.001185
Std Dev 0.9187

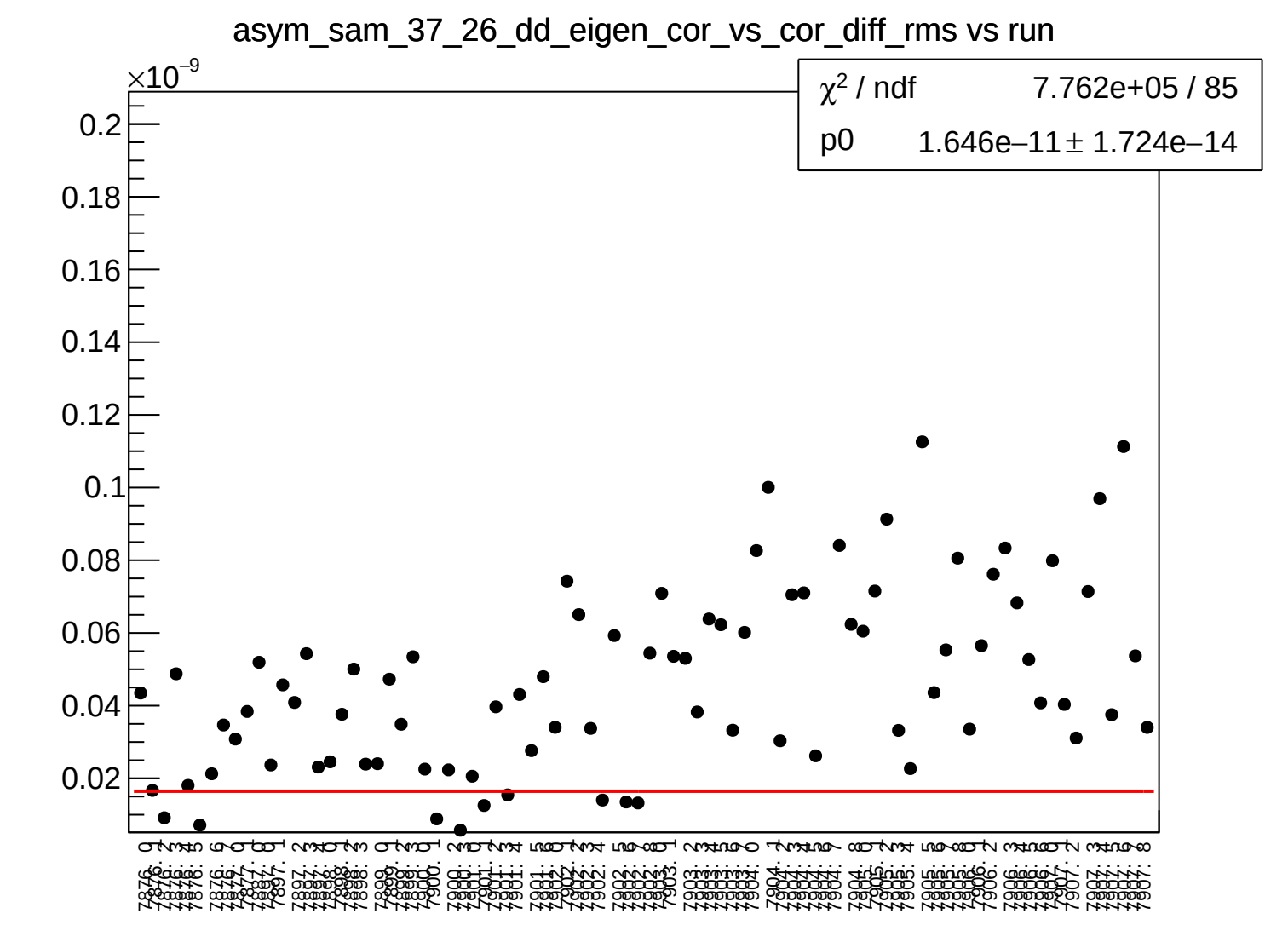

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.214e+04 / 85
p0 51.93 ± 0.04098
180
160
140
120
100
80
60
40
20

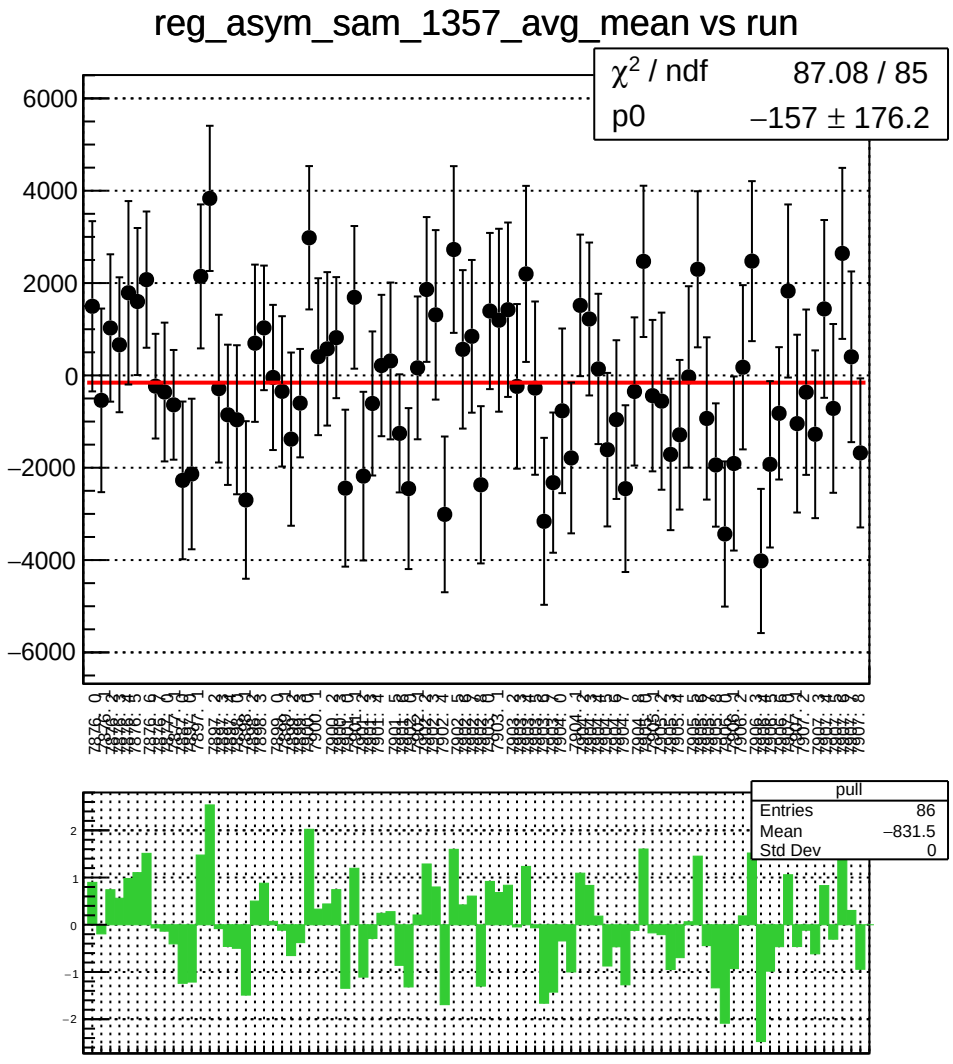

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.59 / 85
p0 0.03009 ± 0.05796
pull
Entries 86
Mean −118.8
Std Dev 0
pull1D
Entries 86
Mean −0.001185
Std Dev 0.9187

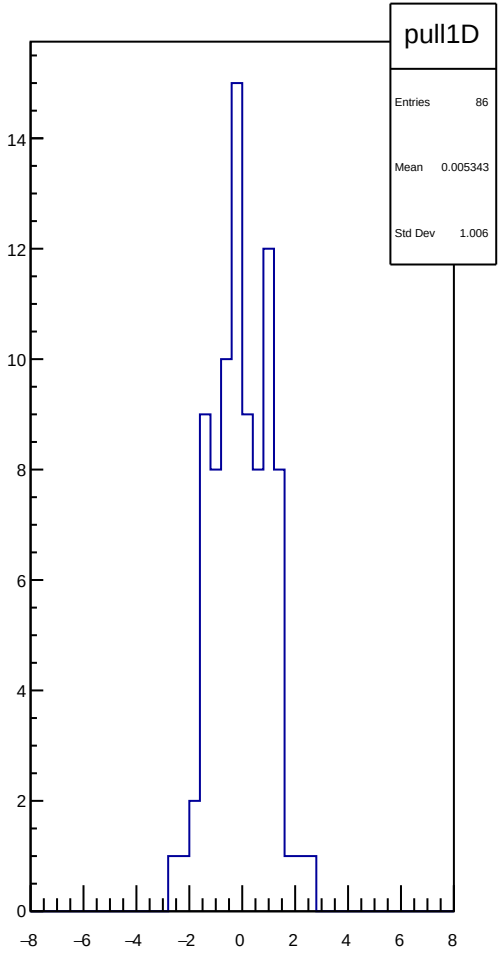

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.214e+04 / 85
p0 51.93 ± 0.04098
180
160
140
120
100
80
60
40
20

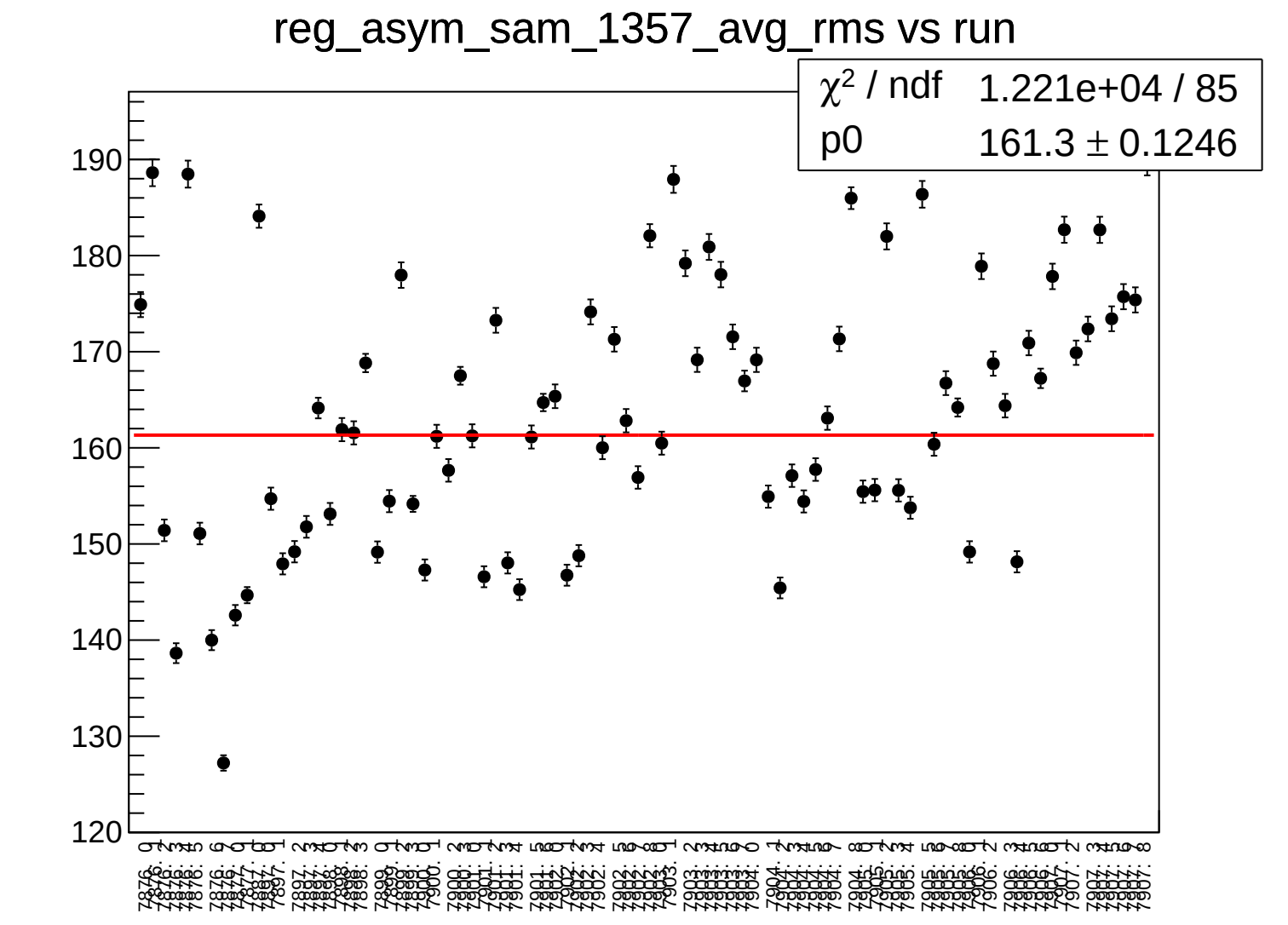

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.89 / 85
p0 −1.808e−14 ± 2.438e−14
pull
Entries 86
Mean 59.11
Std Dev 21.29

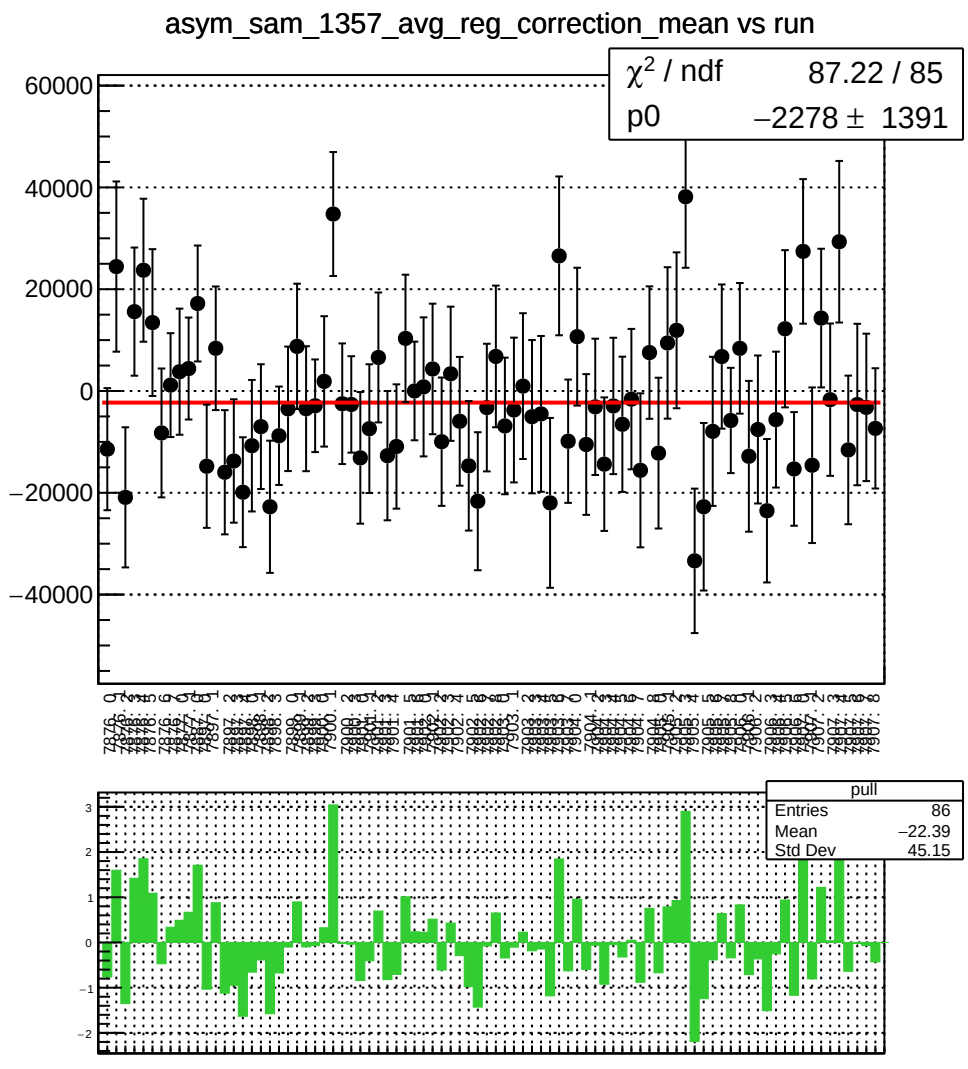

pull1D
Entries 86
Mean 0.05861
Std Dev 0.98

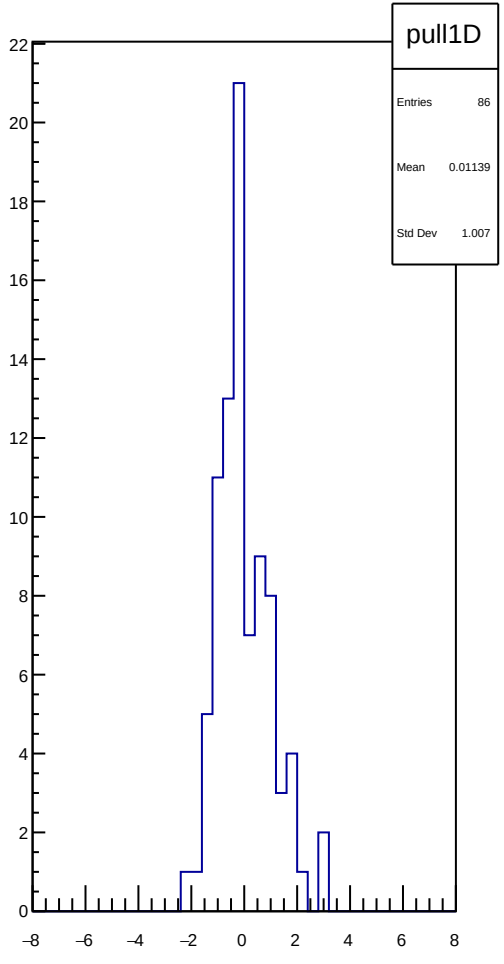

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.762e+05 / 85
p0 1.646e−11 ± 1.724e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

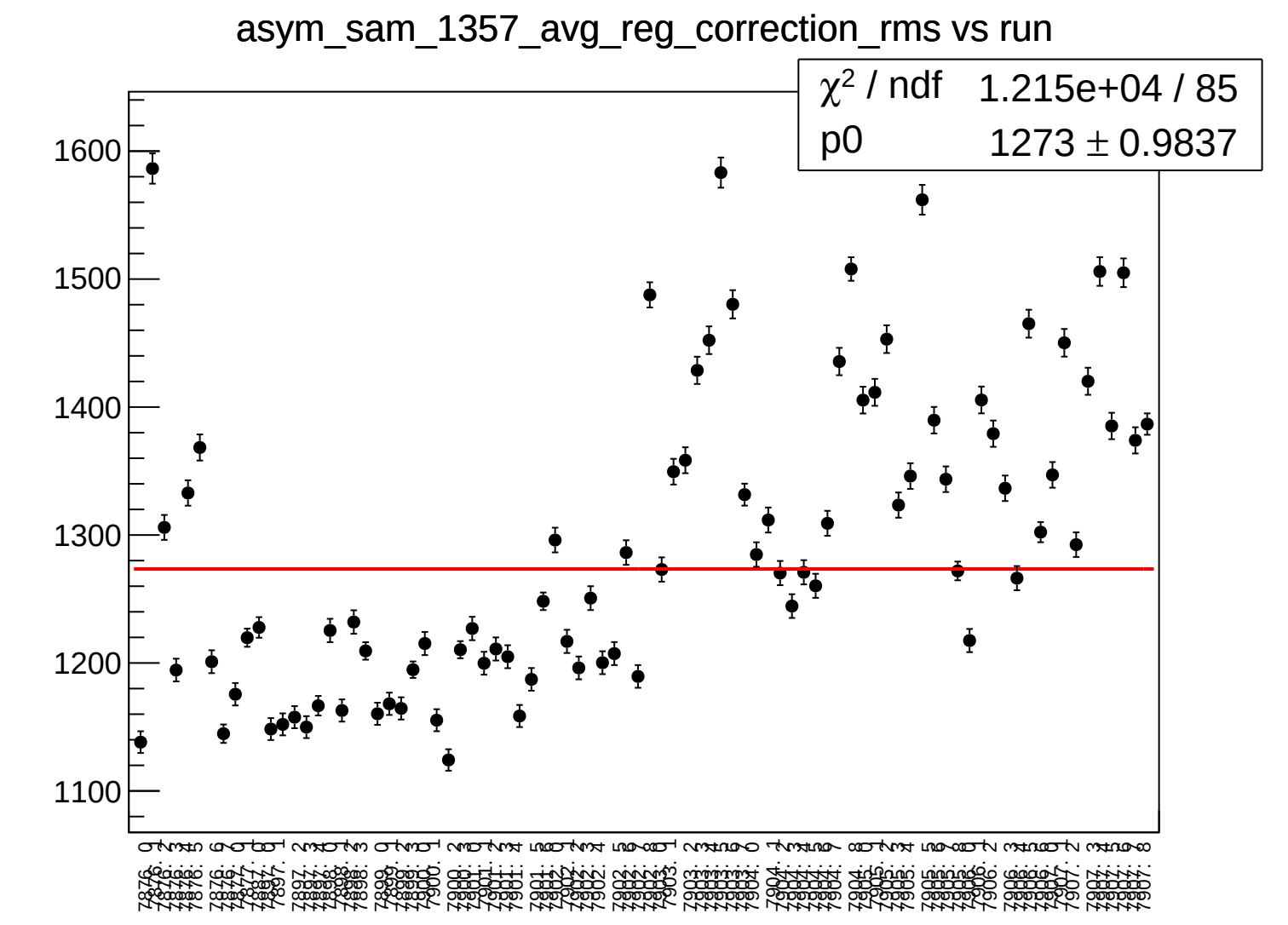

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 87.08 / 85
p0 −157 ± 176.2
pull
Entries 86
Mean −831.5
Std Dev 0

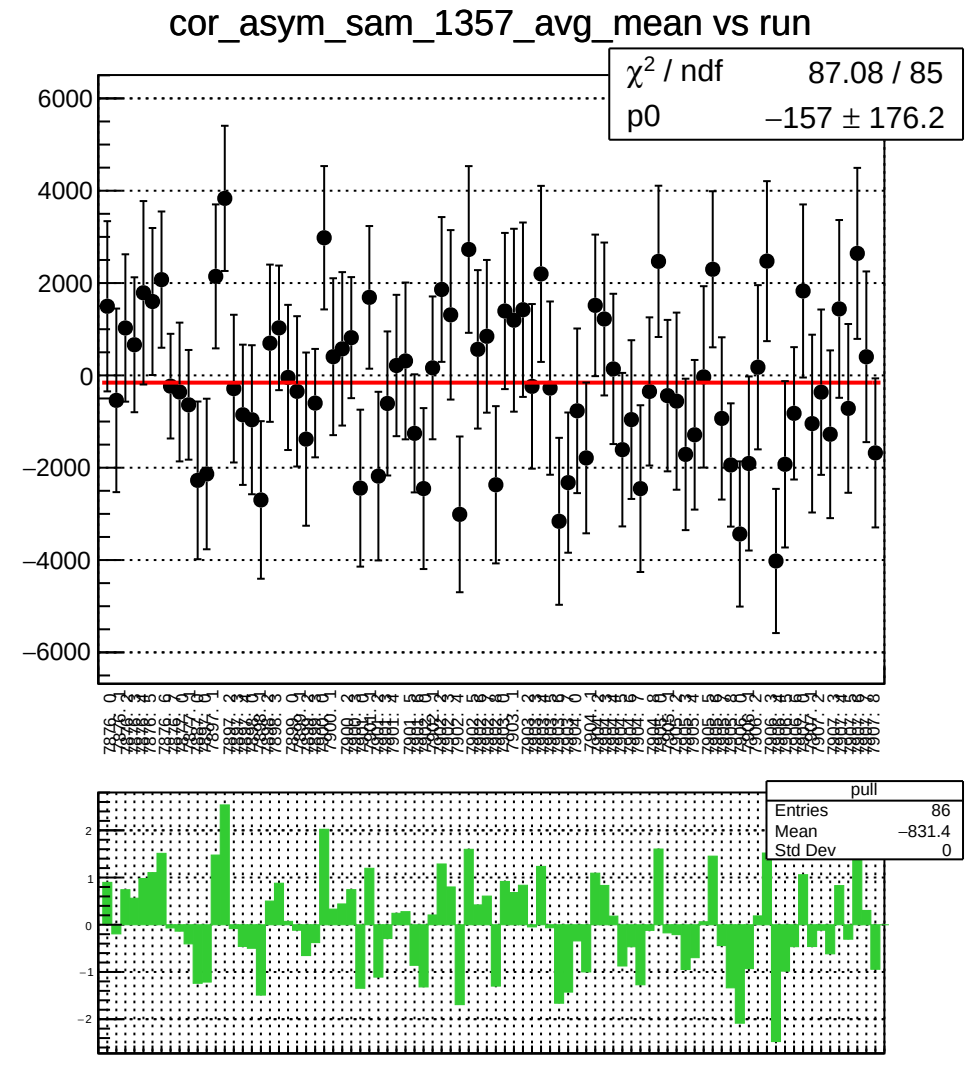

pull1D
Entries 86
Mean 0.005343
Std Dev 1.006

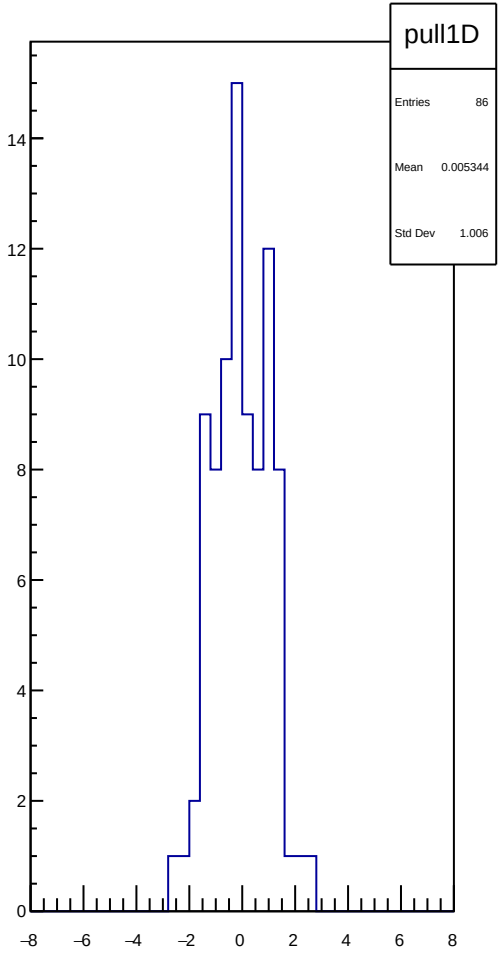

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.221e+04 / 85
p0 161.3 ± 0.1246
190
180
170
160
150
140
130
120

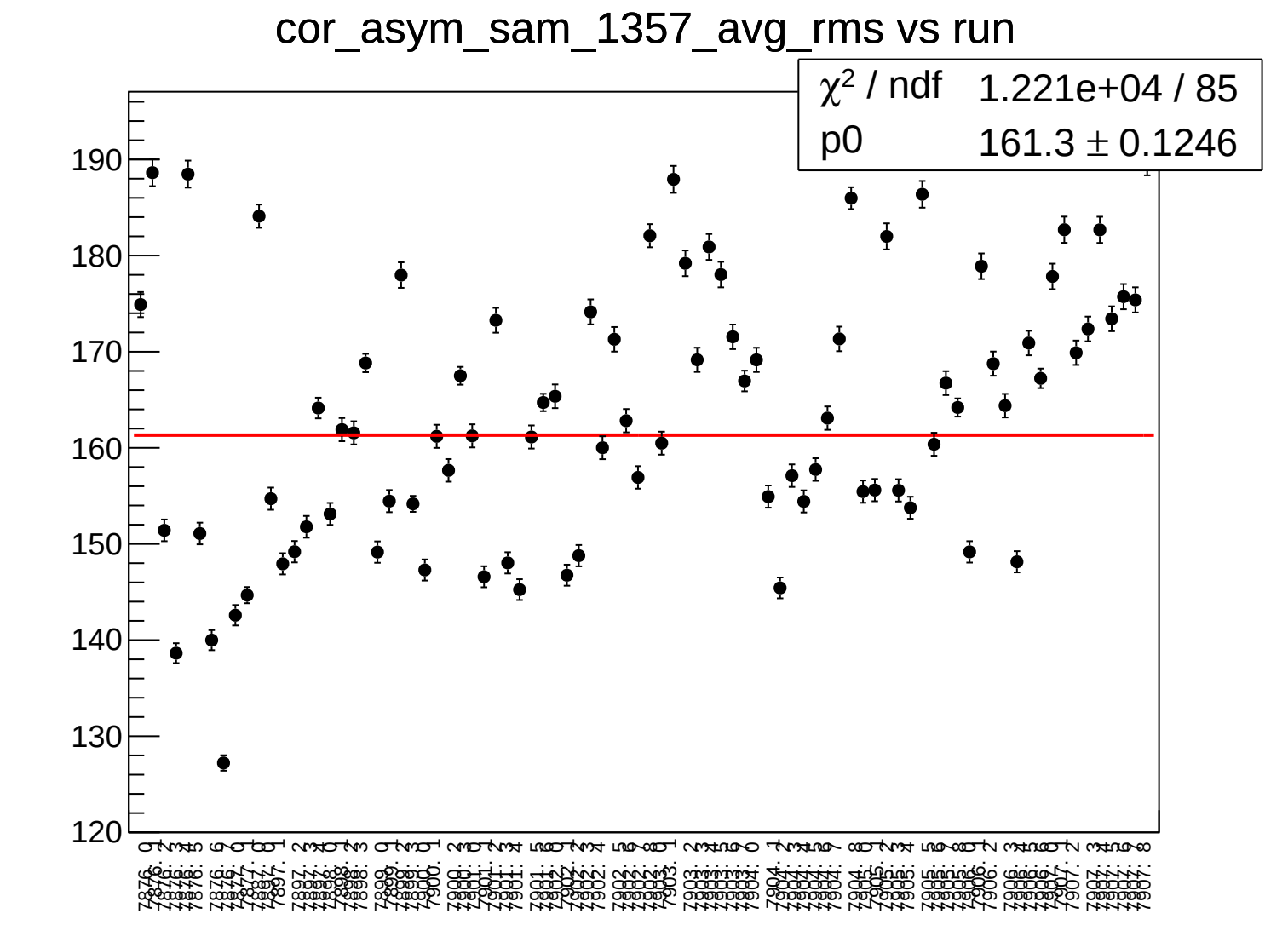

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 87.22 / 85
p0 −2278 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −22.39
Std Dev 45.15
3
2
1
0
−1
−2

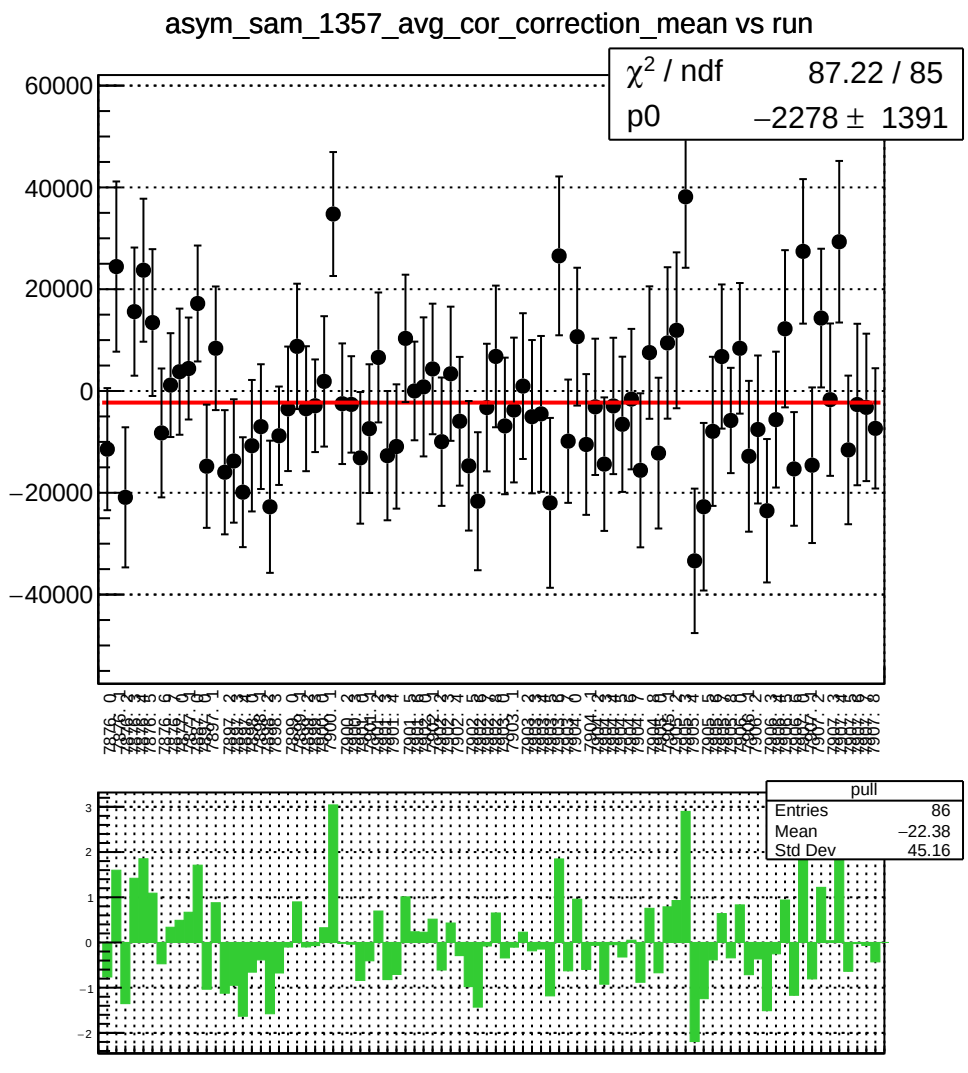

pull1D
Entries 86
Mean 0.01139
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

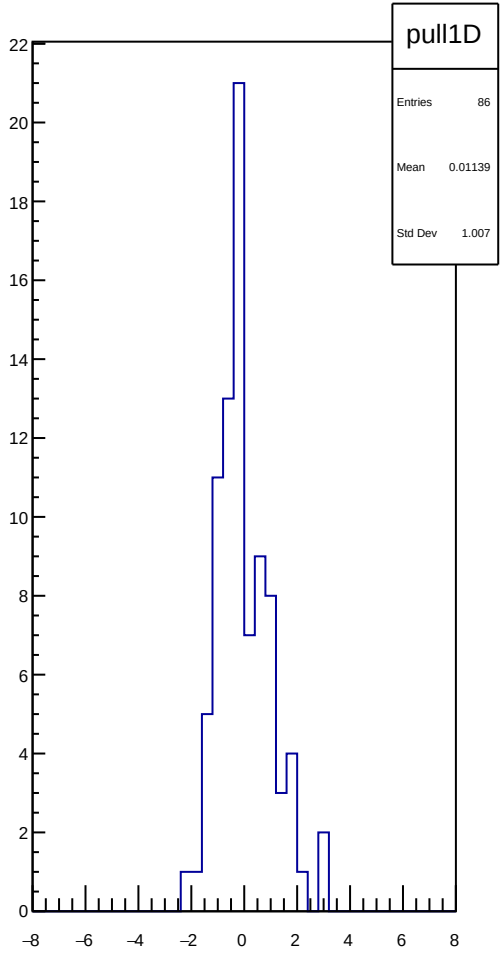

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.215e+04 / 85
p0 1273 ± 0.9837
1600
1500
1400
1300
1200
1100

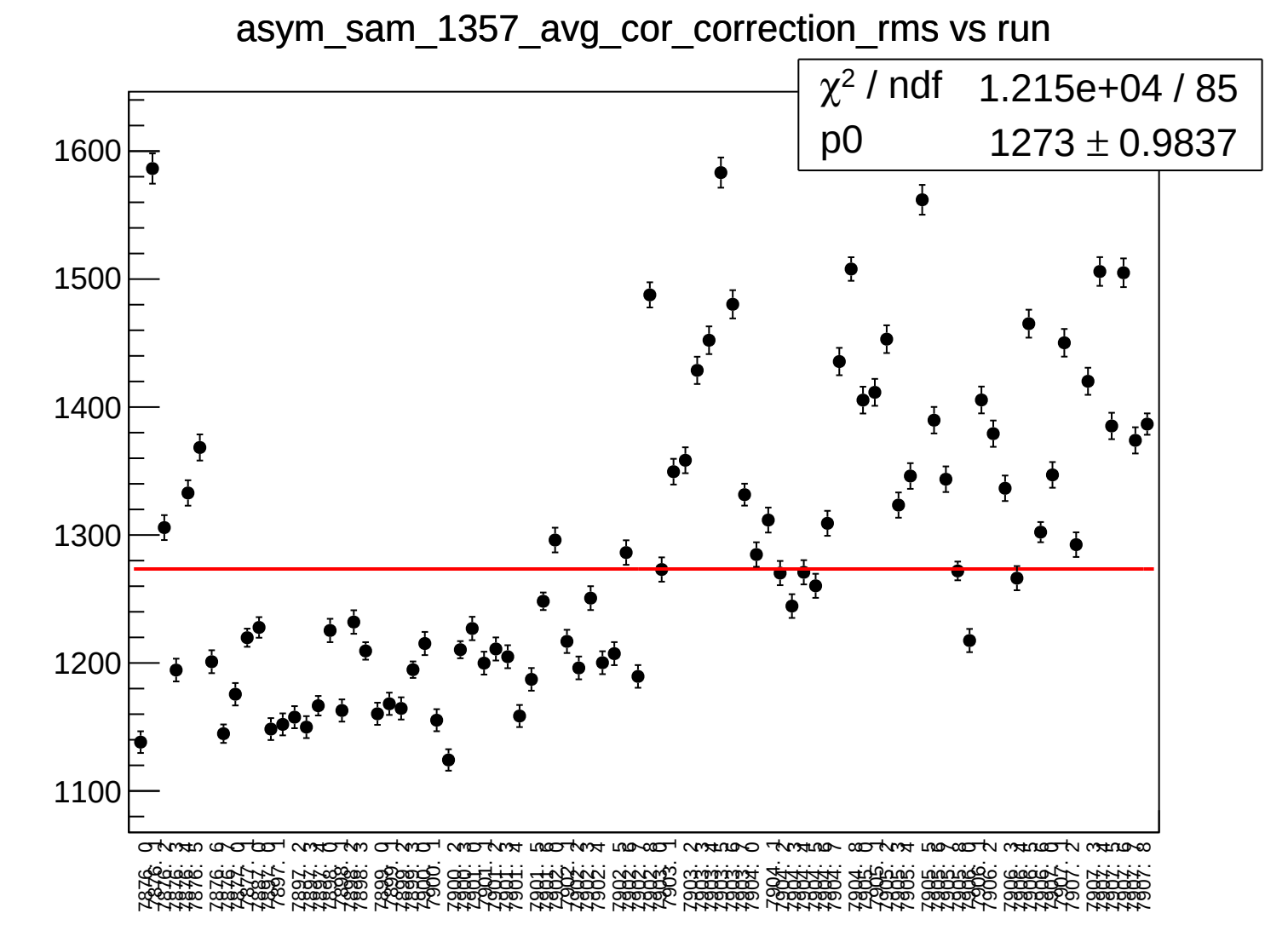

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 87.08 / 85
p0 −157 ± 176.2
pull
Entries 86
Mean −831.4
Std Dev 0

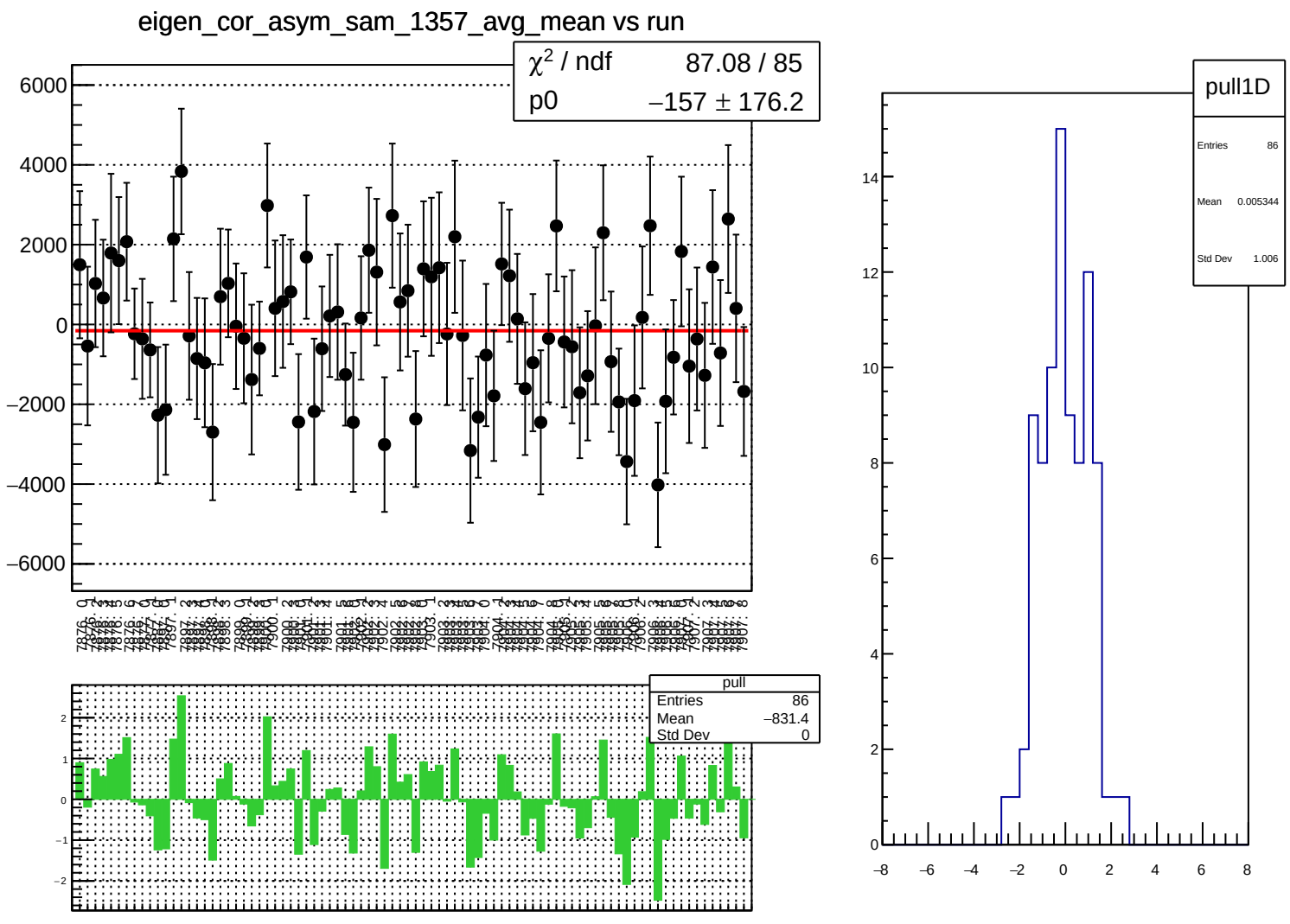

pull1D
Entries 86
Mean 0.005344
Std Dev 1.006

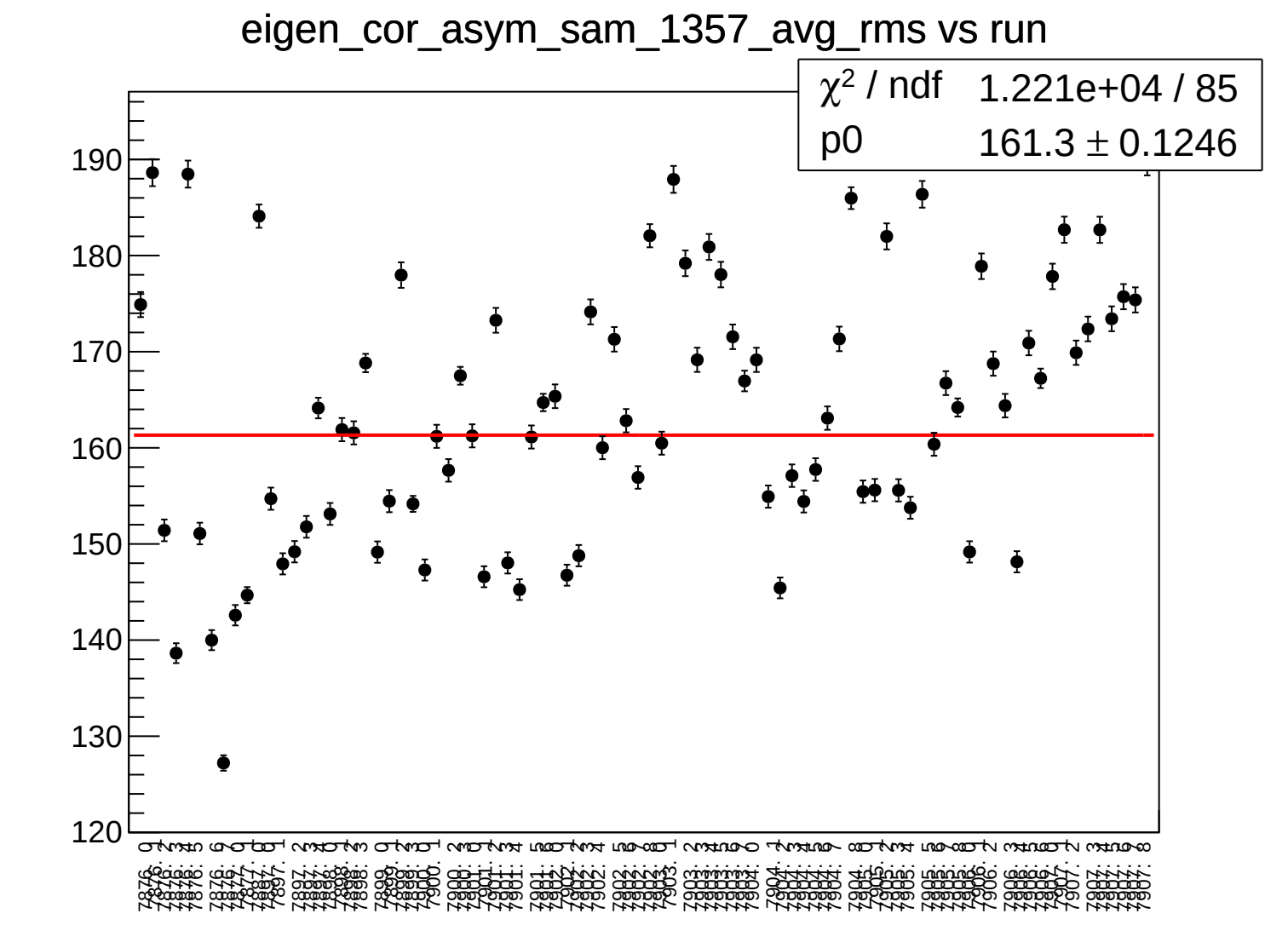

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.221e+04 / 85
p0 161.3 ± 0.1246
190
180
170
160
150
140
130
120

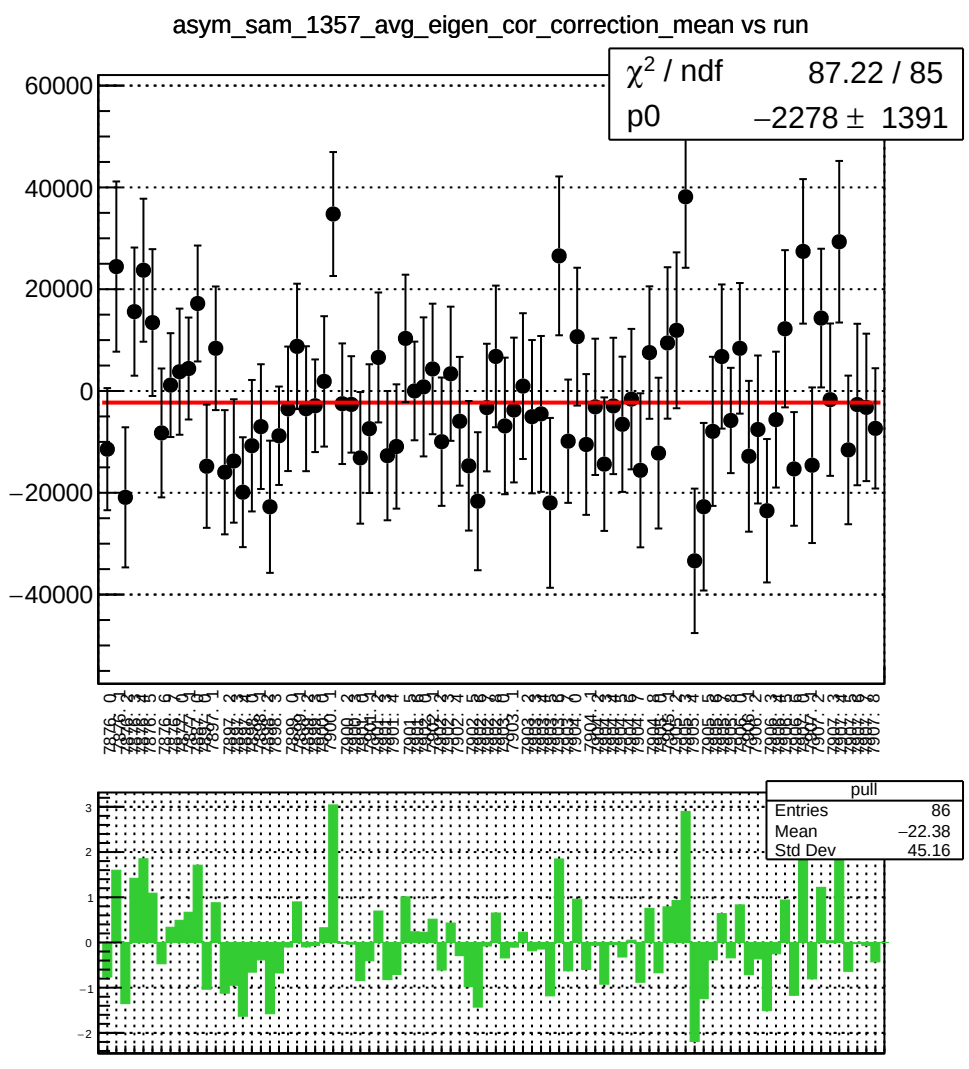

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 87.22 / 85
p0 −2278 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −22.38
Std Dev 45.16
3
2
1
0
−1
−2

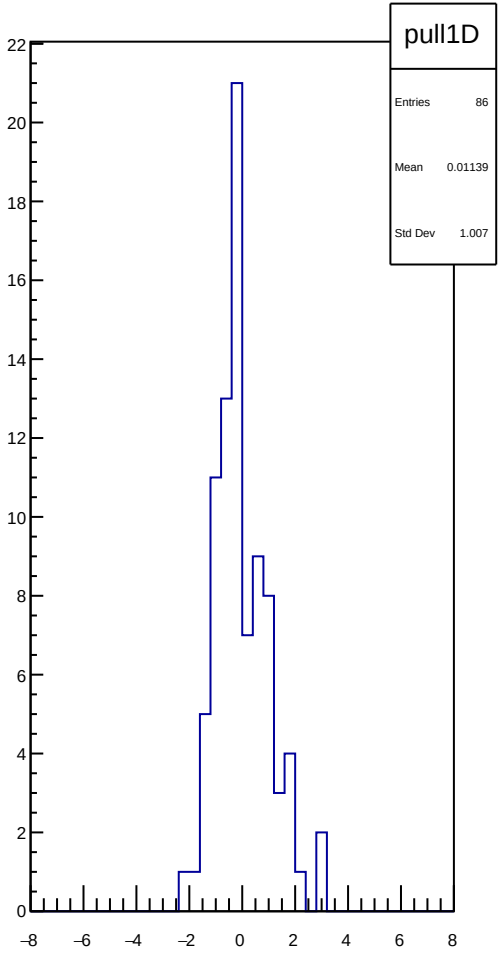

pull1D
Entries 86
Mean 0.01139
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

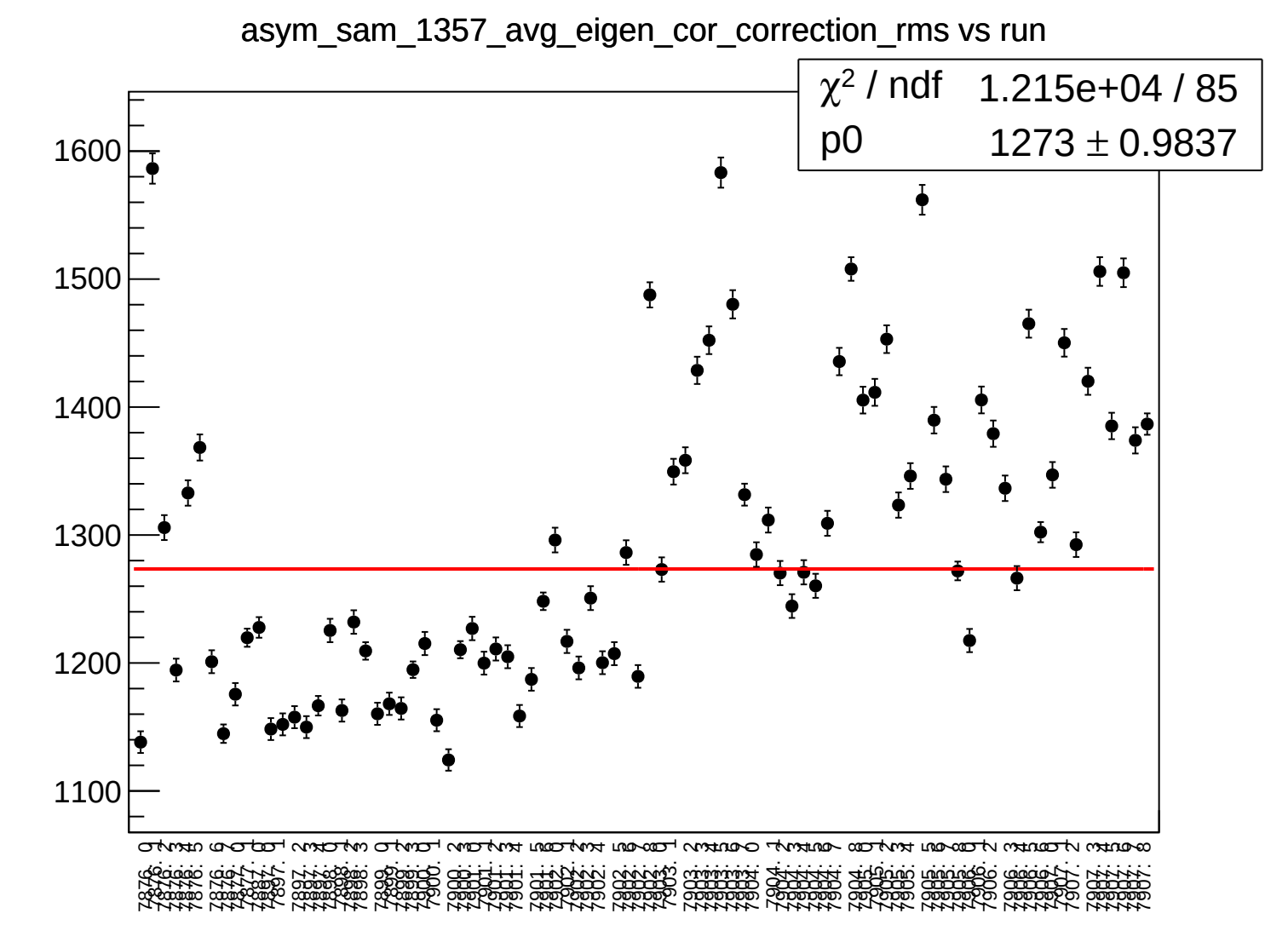

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.215e+04 / 85
p0 1273 ± 0.9837
1600
1500
1400
1300
1200
1100

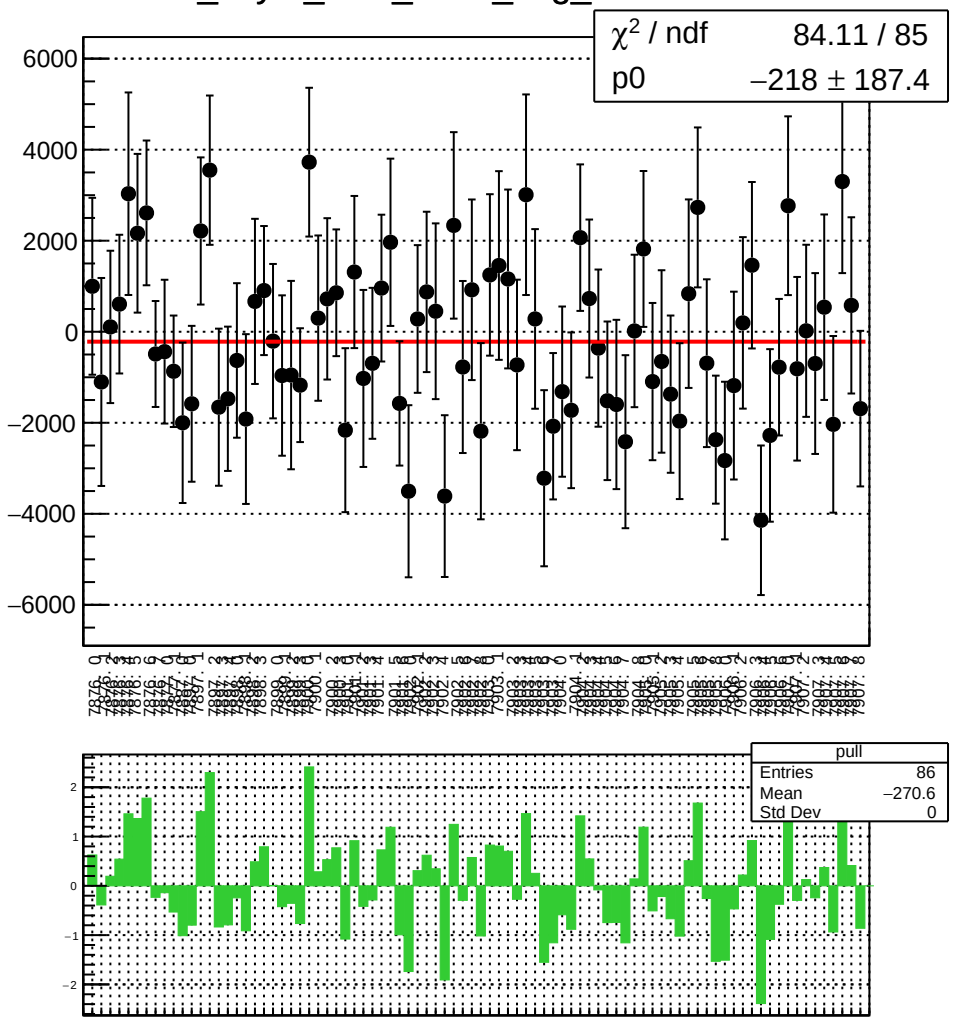

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 87.08 / 85
p0 −157 ± 176.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −831.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.005344
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

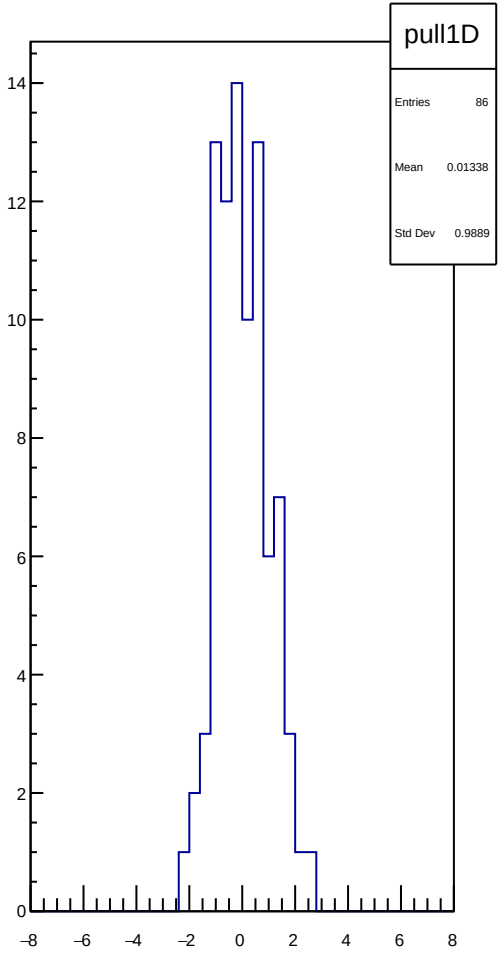

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.221e+04 / 85
p0 161.3 ± 0.1246
190
180
170
160
150
140
130
120

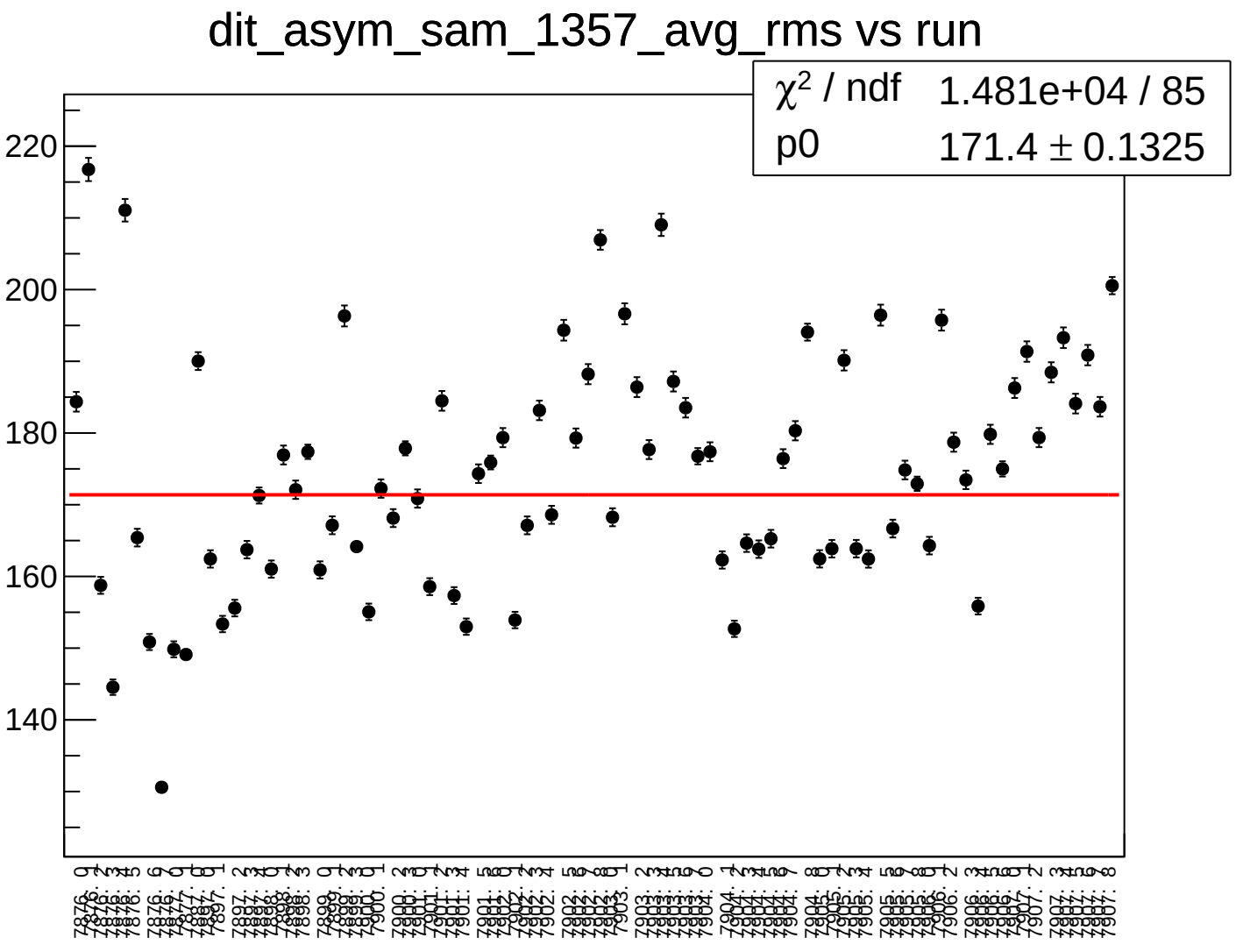

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.22 / 85
p0 −2278 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −22.38
Std Dev 45.16
3
2
1
0
−1
−2

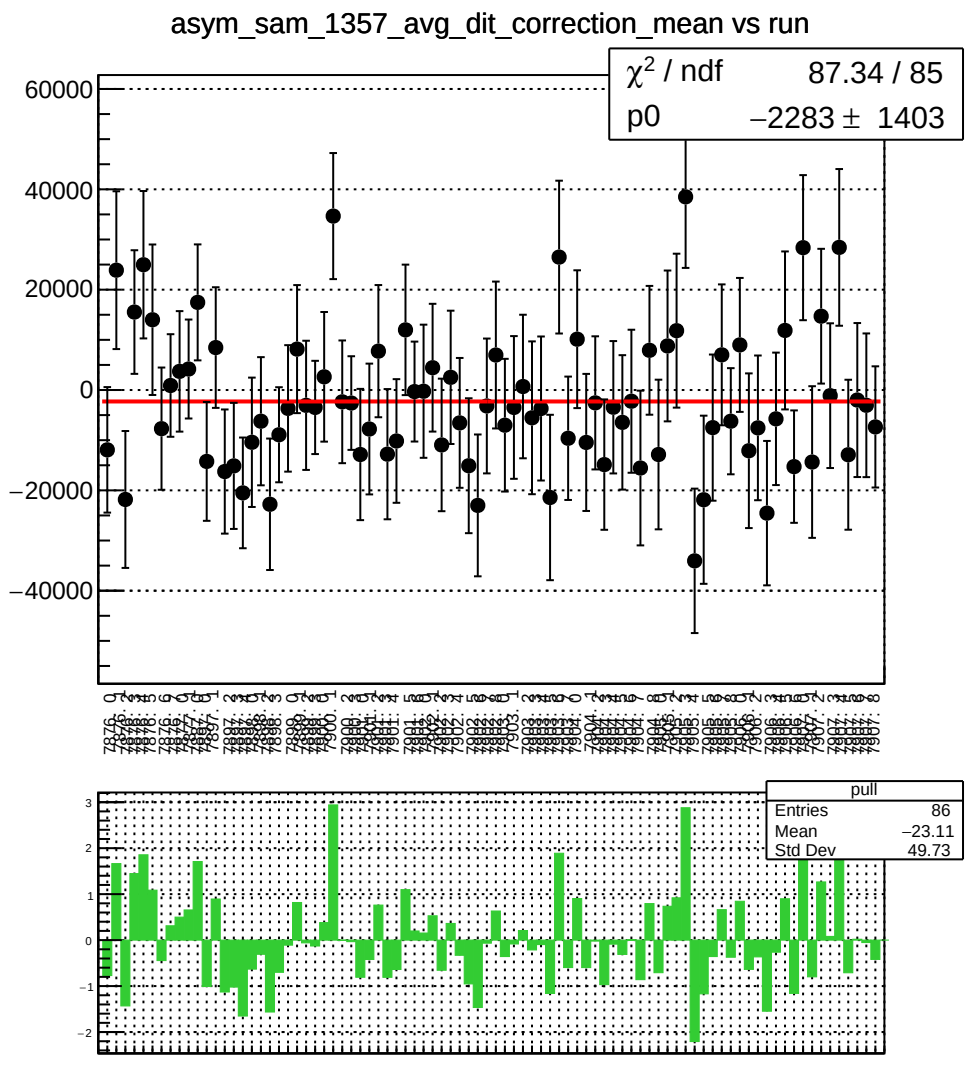

pull1D
Entries 86
Mean 0.01139
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

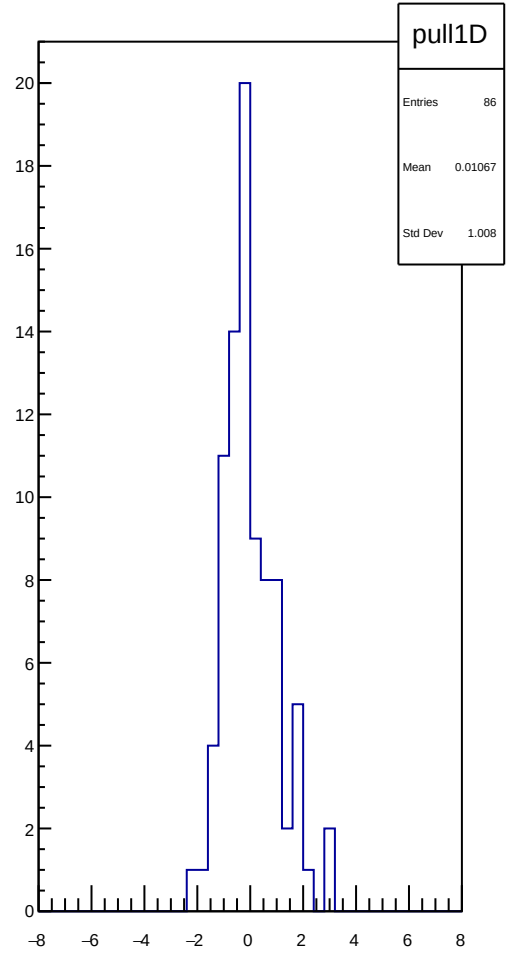

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.215e+04 / 85
p0 1273 ± 0.9837
1600
1500
1400
1300
1200
1100

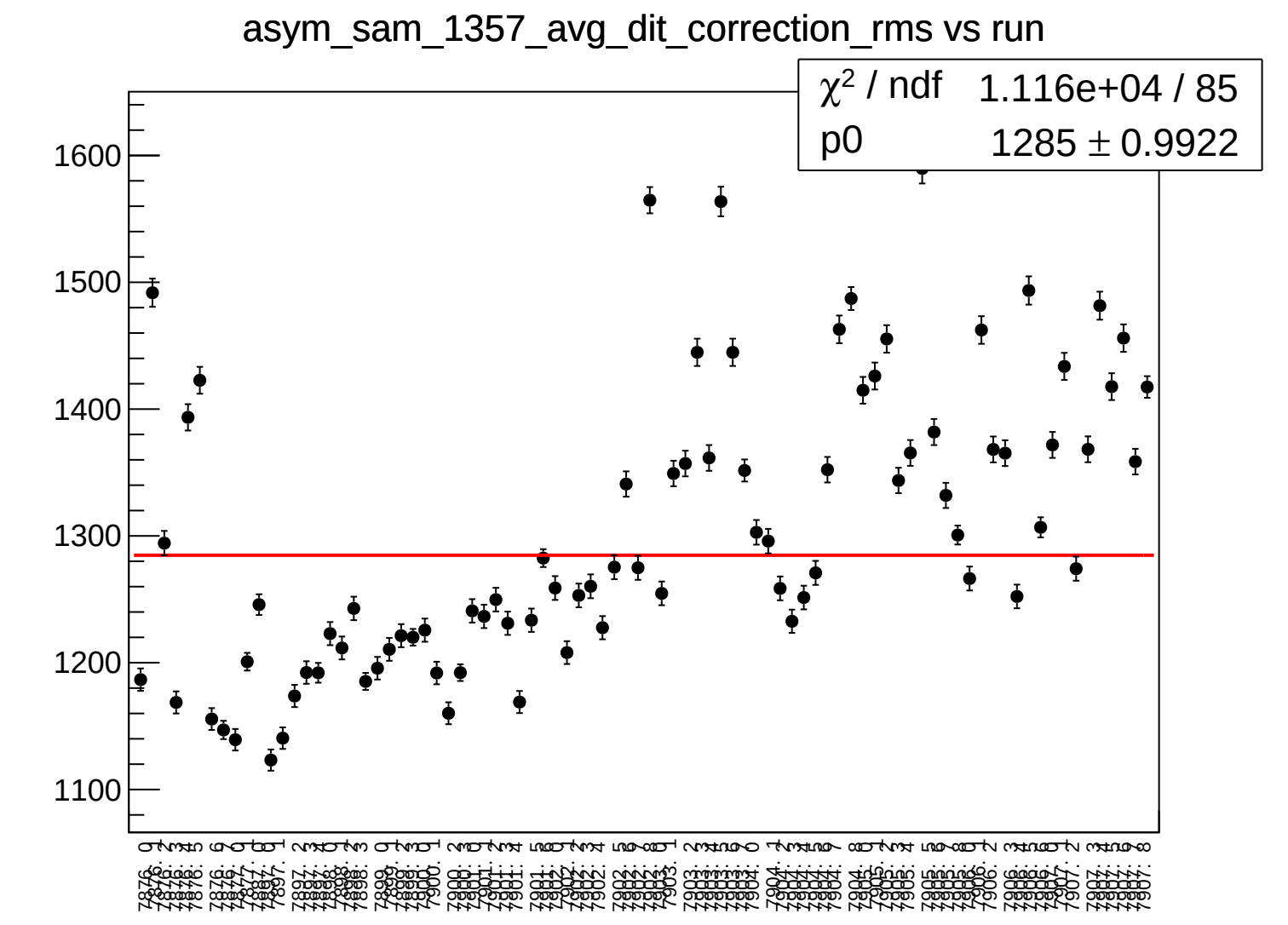

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 84.11 / 85
p0 −218 ± 187.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −270.6
Std Dev 0
2
1
0
−1
−2

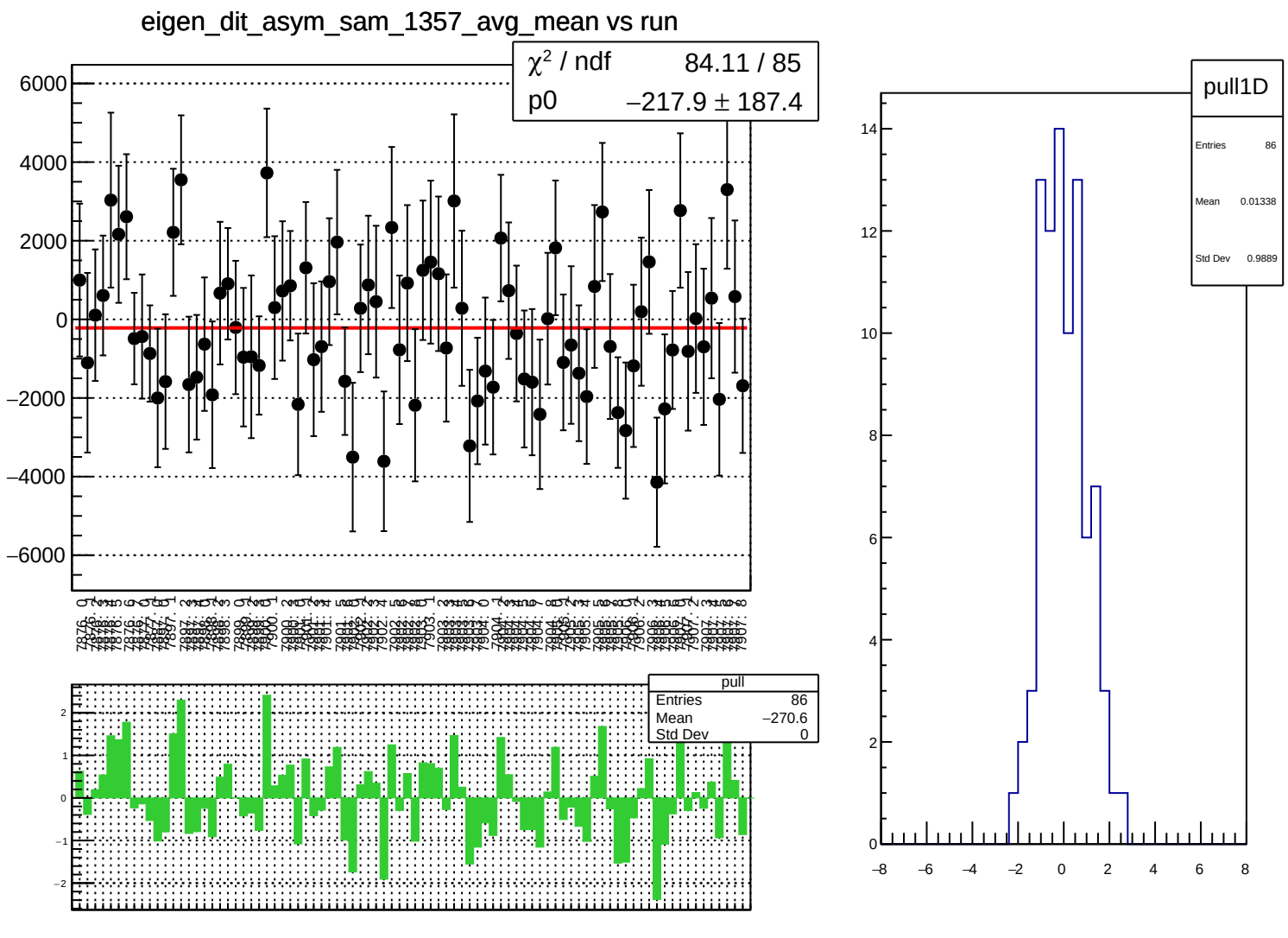

pull1D
Entries 86
Mean 0.01338
Std Dev 0.9889
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

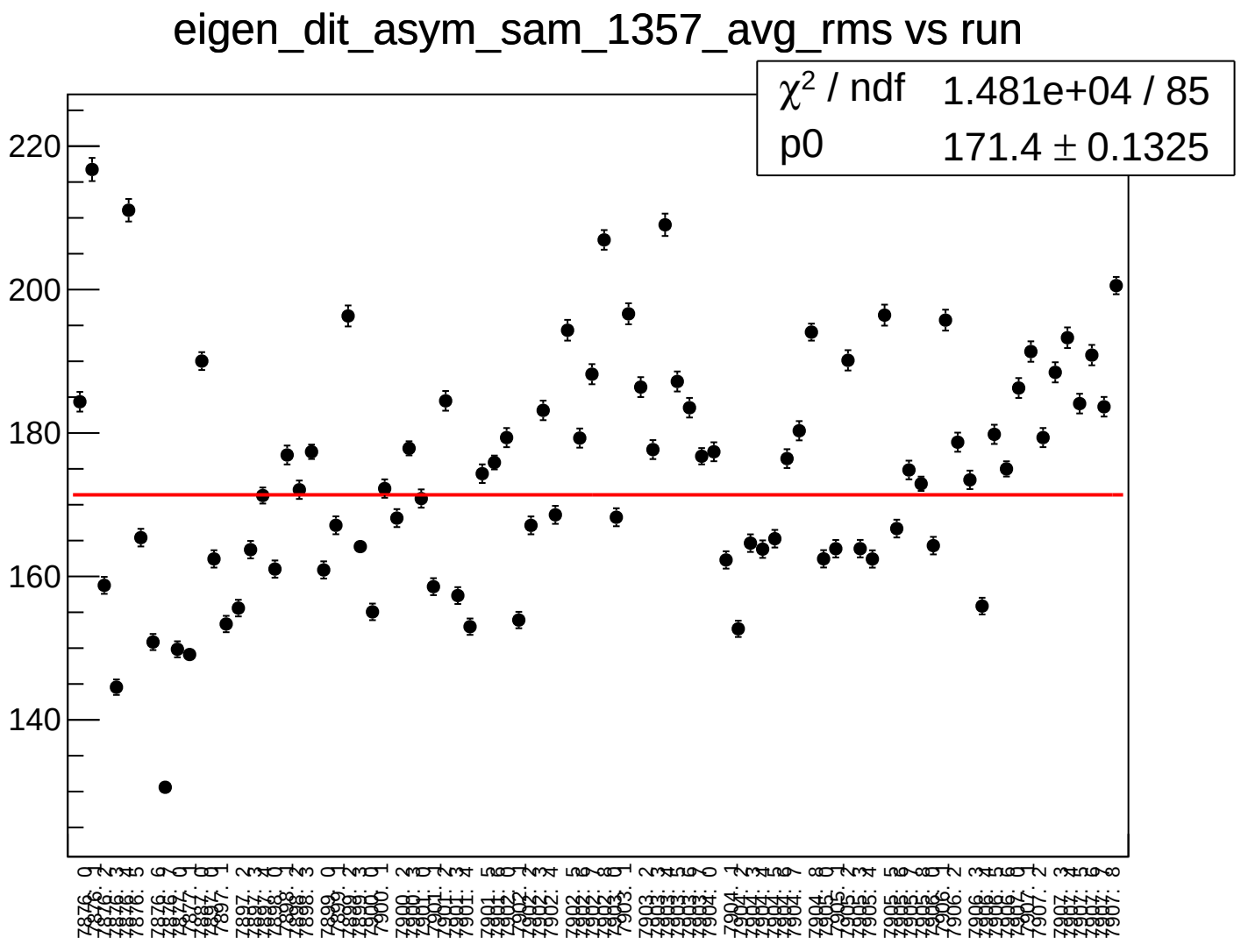

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.481e+04 / 85
p0 171.4 ± 0.1325
220
200
180
160
140

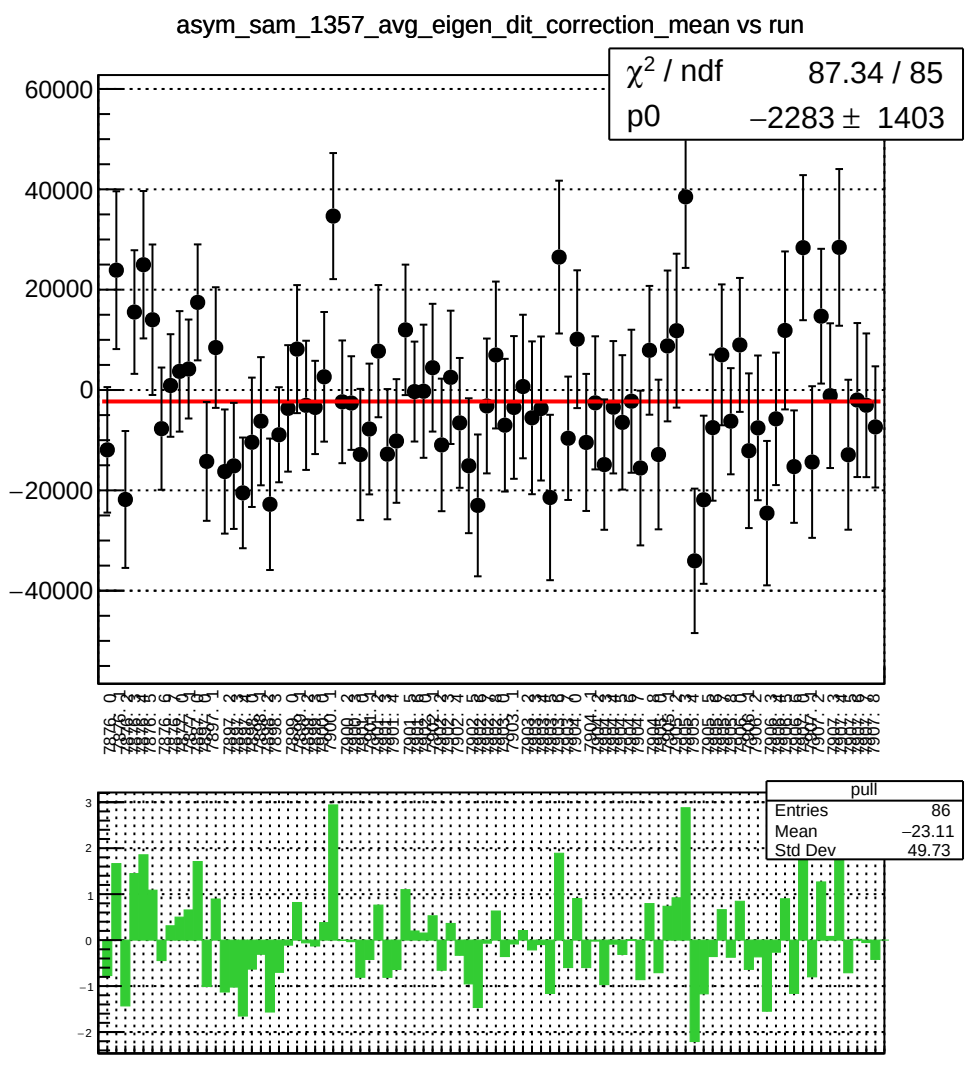

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 87.34 / 85
p0 −2283 ± 1403
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −23.11
Std Dev 49.73
3
2
1
0
−1
−2

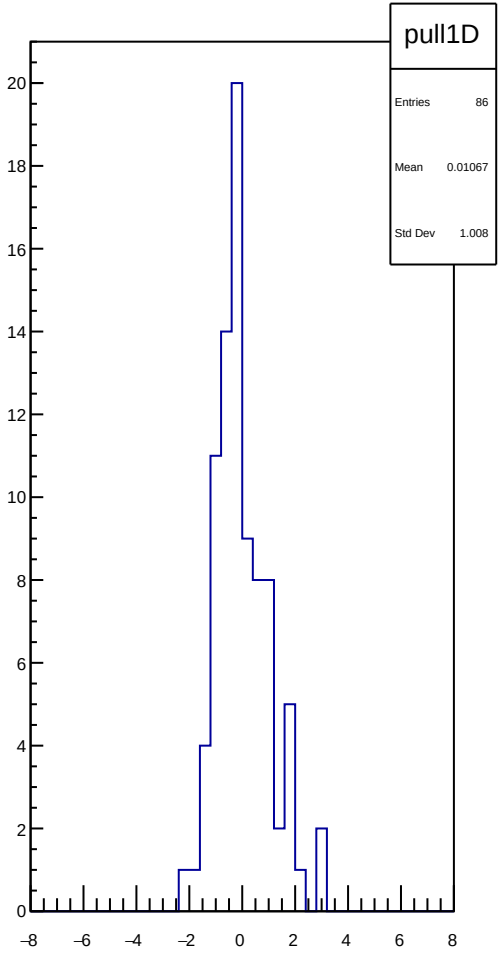

pull1D
Entries 86
Mean 0.01067
Std Dev 1.008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

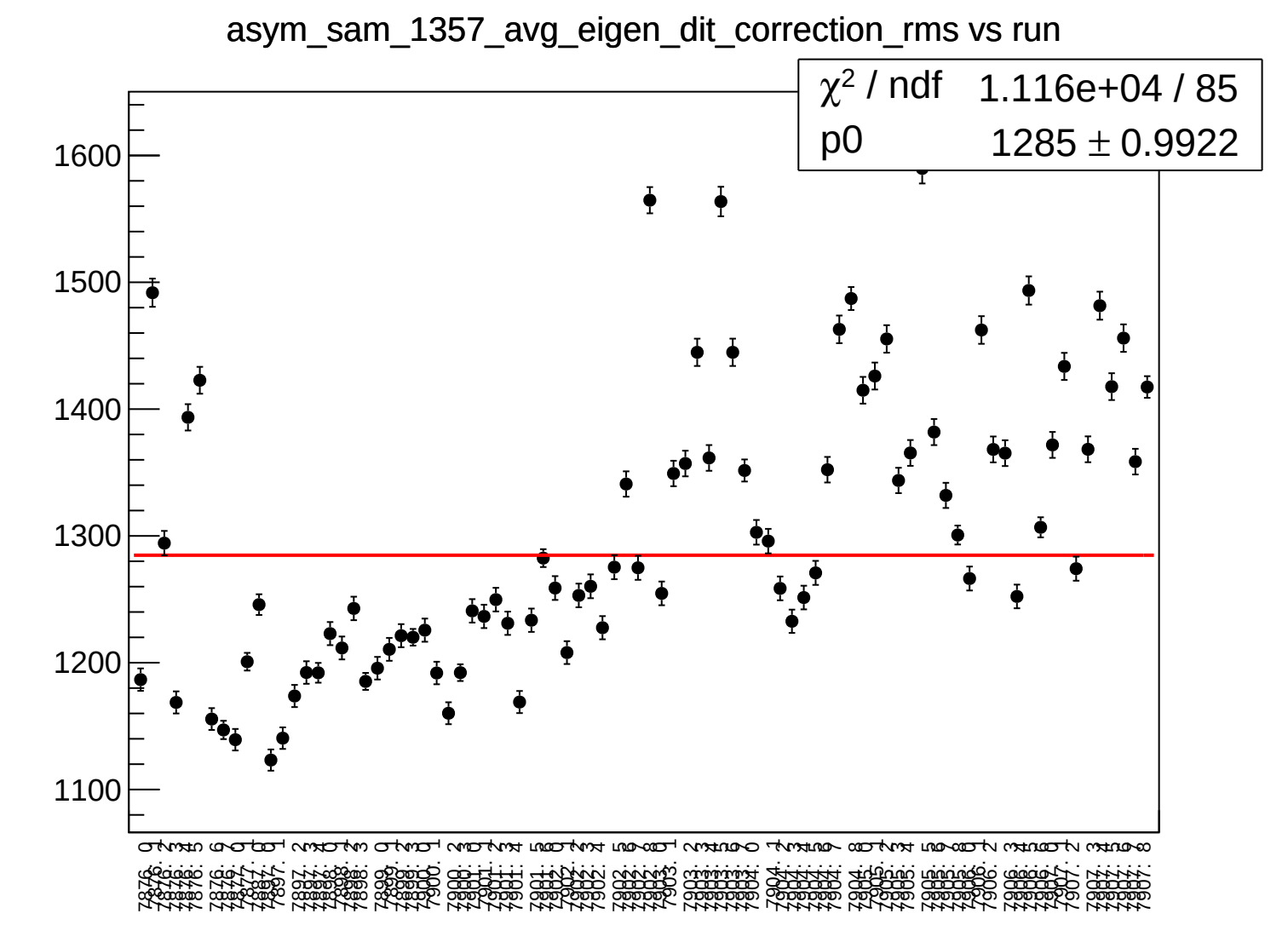

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1.116e+04 / 85
p0 1285 ± 0.9922
1600
1500
1400
1300
1200
1100

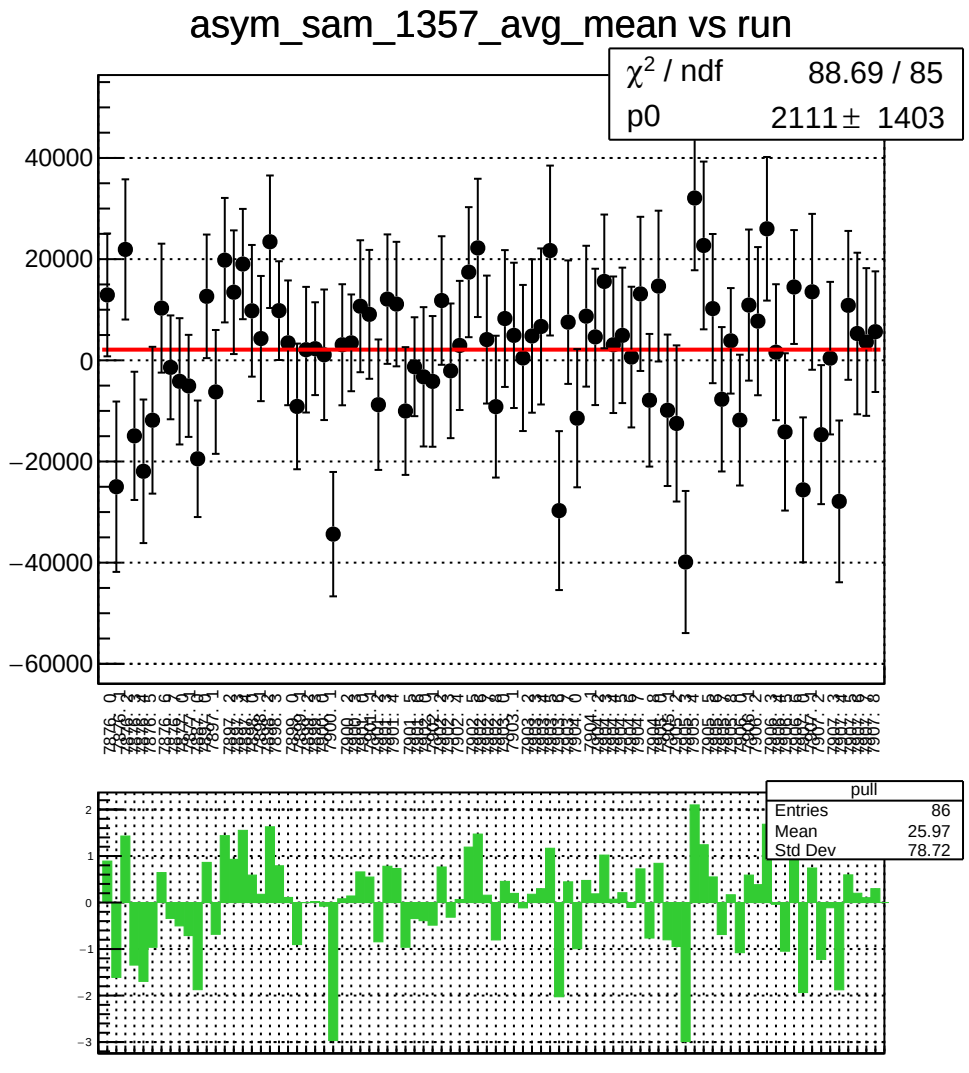

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 84.11 / 85
p0 −217.9 ± 187.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −270.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01338
Std Dev 0.9889
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

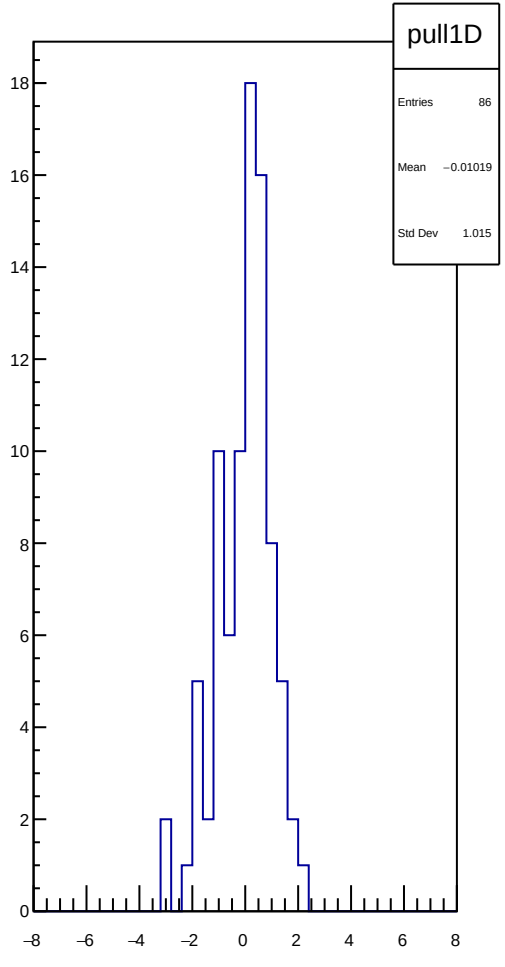

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.481e+04 / 85
p0 171.4 ± 0.1325
220
200
180
160
140

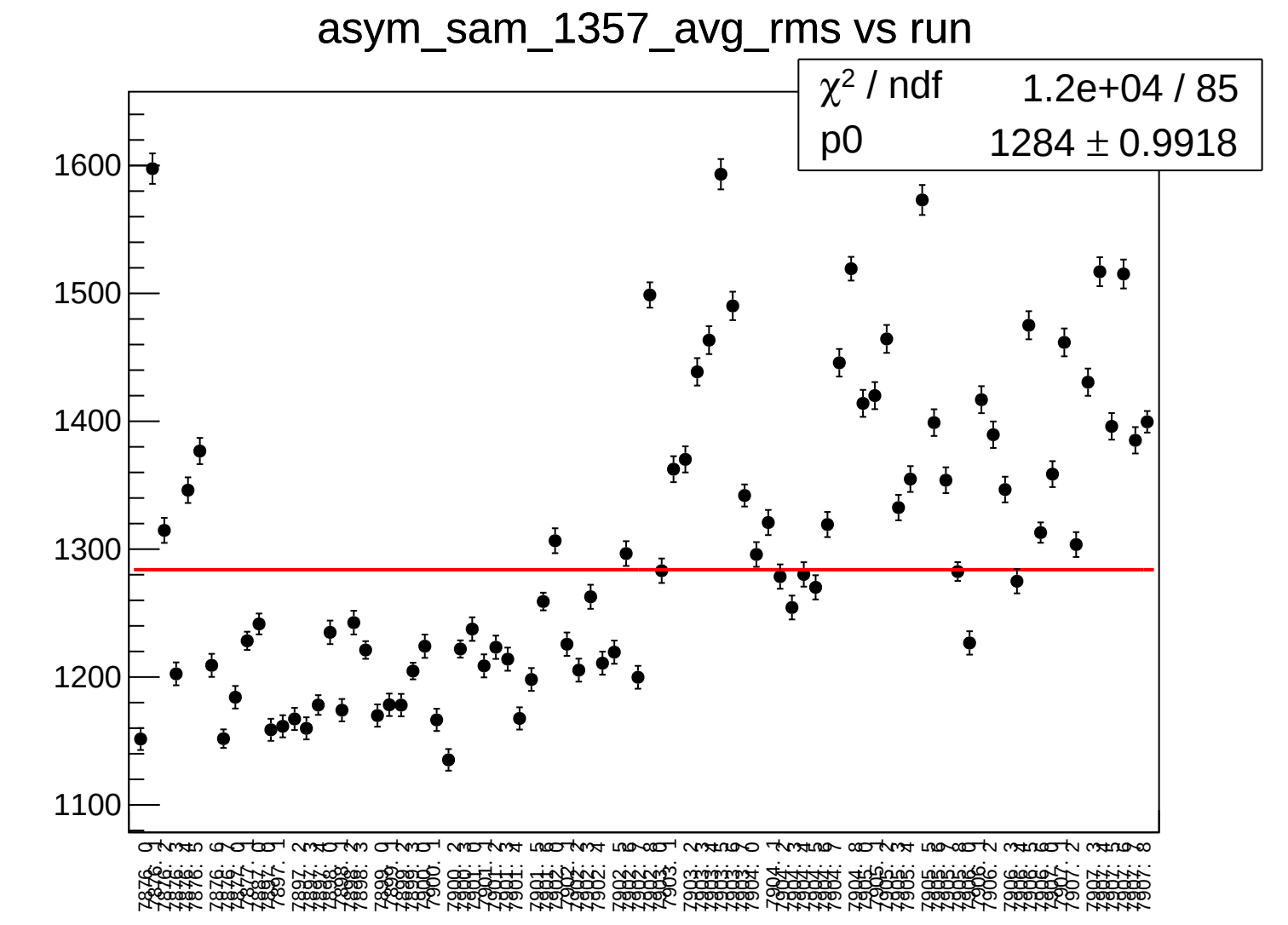

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.34 / 85
p0 −2283 ± 1403
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −23.11
Std Dev 49.73
3
2
1
0
−1
−2

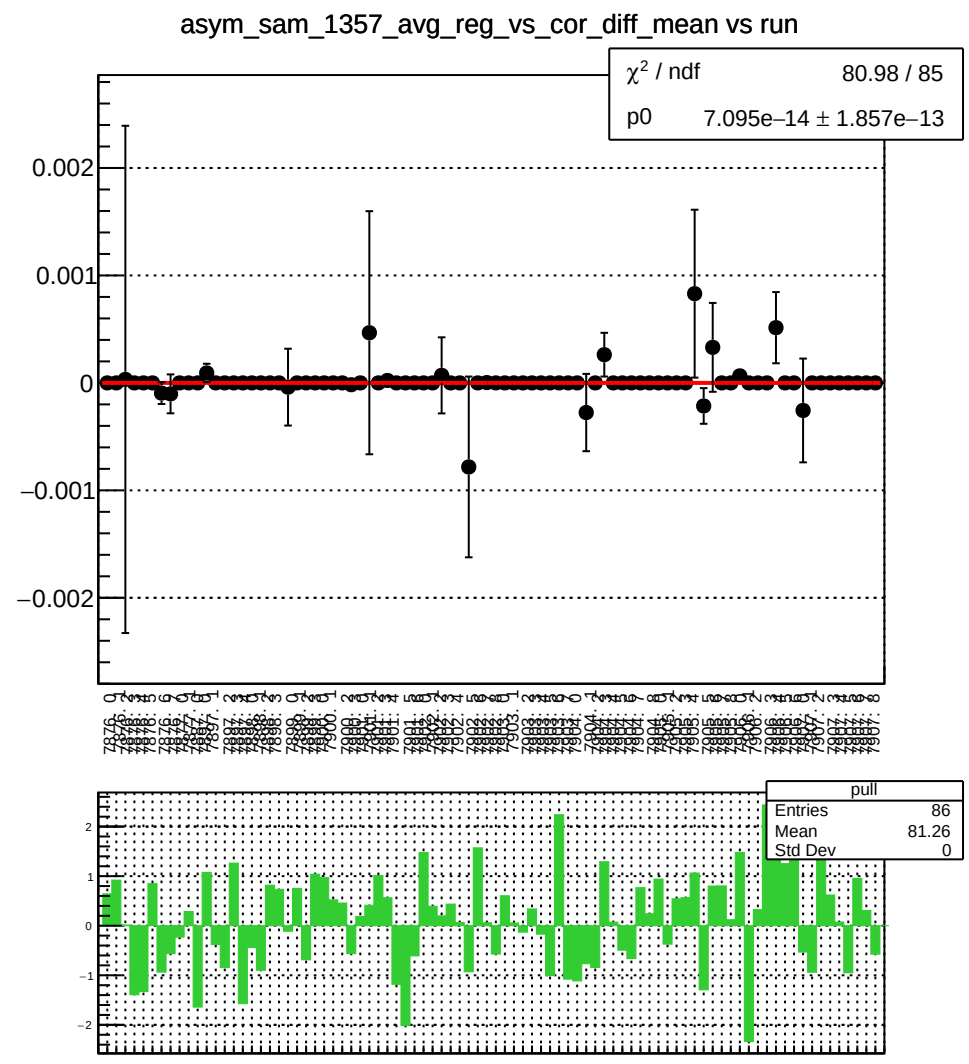

pull1D
Entries 86
Mean 0.01067
Std Dev 1.008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

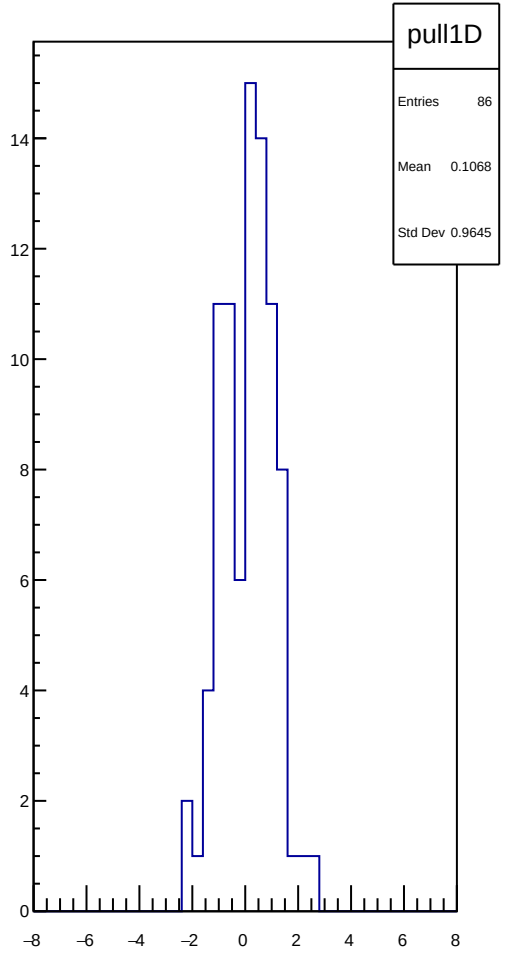

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.116e+04 / 85
p0 1285 ± 0.9922
1600
1500
1400
1300
1200
1100

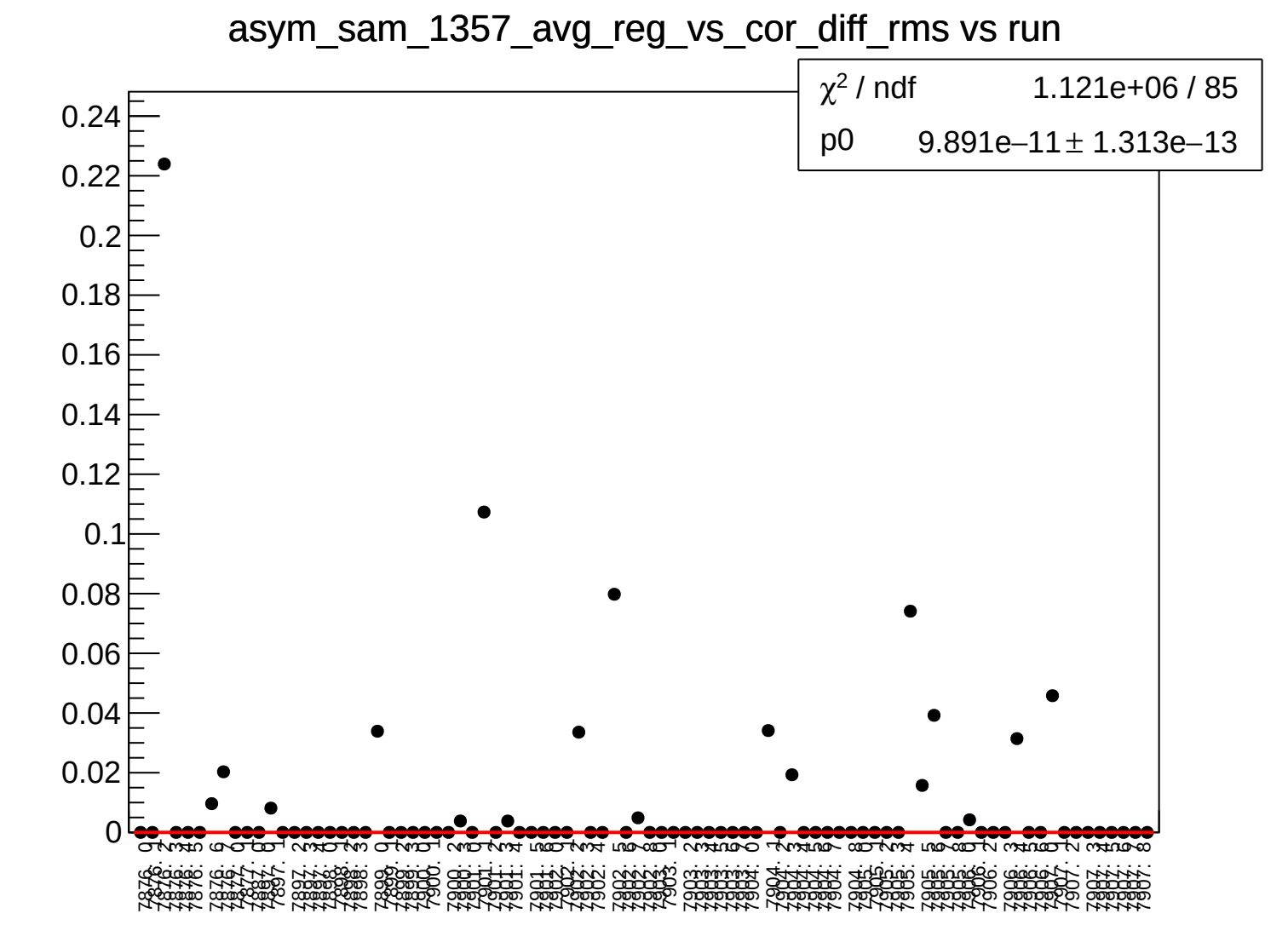

asym_sam_1357_avg_mean vs run
χ² / ndf 88.69 / 85
p0 2111 ± 1403
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 25.97
Std Dev 78.72
2
1
0
−1
−2
−3

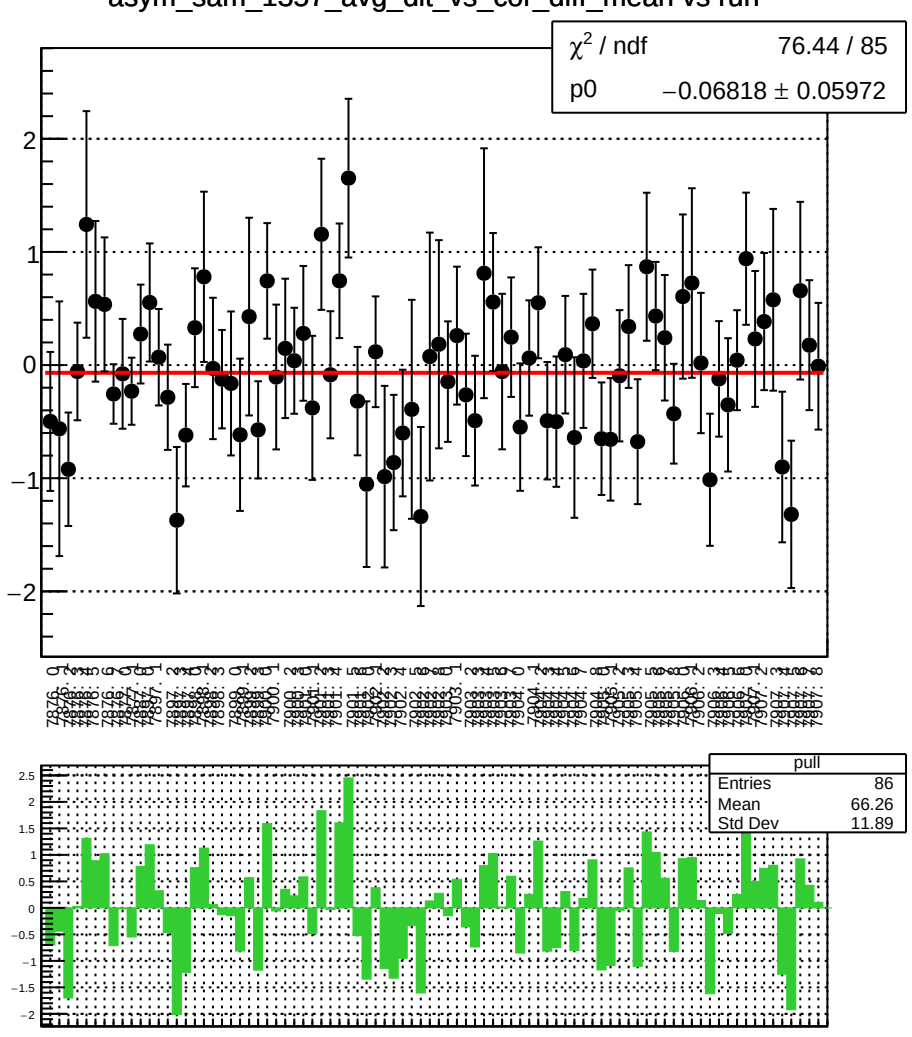

pull1D
Entries 86
Mean −0.01019
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

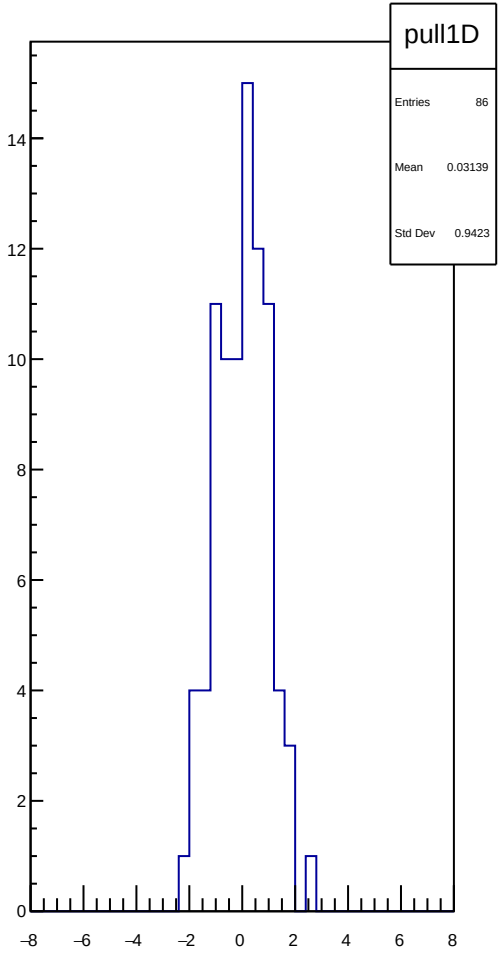

asym_sam_1357_avg_rms vs run
χ² / ndf 1.2e+04 / 85
p0 1284 ± 0.9918
1600
1500
1400
1300
1200
1100

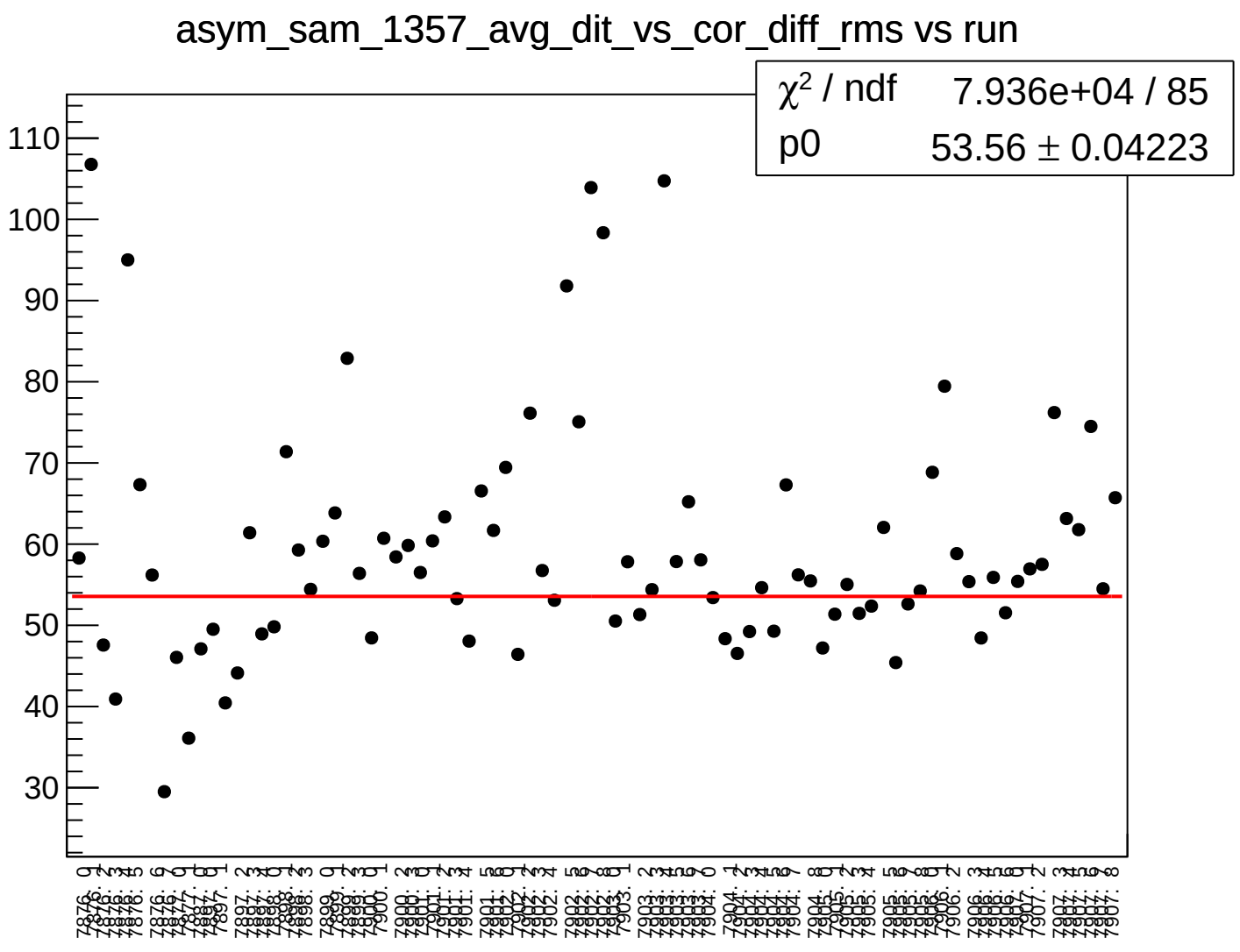

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.98 / 85
p0 7.095e−14 ± 1.857e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 86
Mean 81.26
Std Dev 0
2
1
0
−1
−2

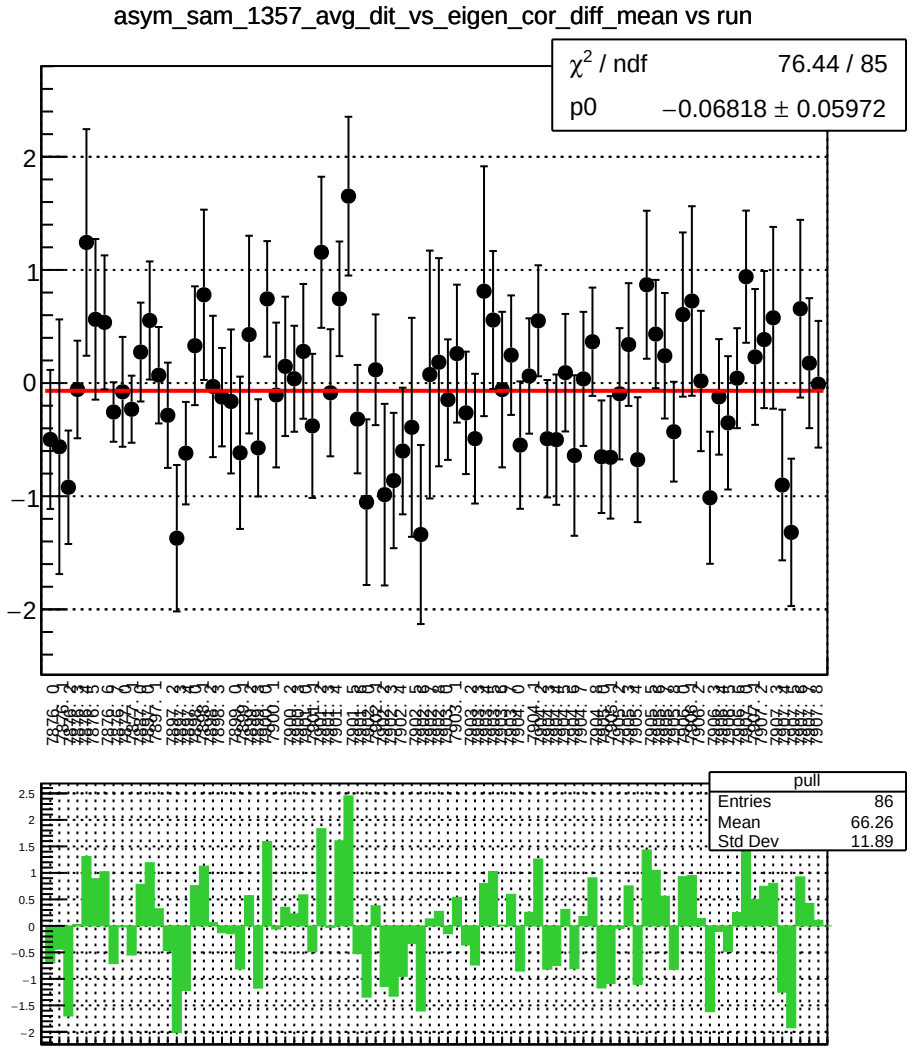

pull1D
Entries 86
Mean 0.1068
Std Dev 0.9645
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

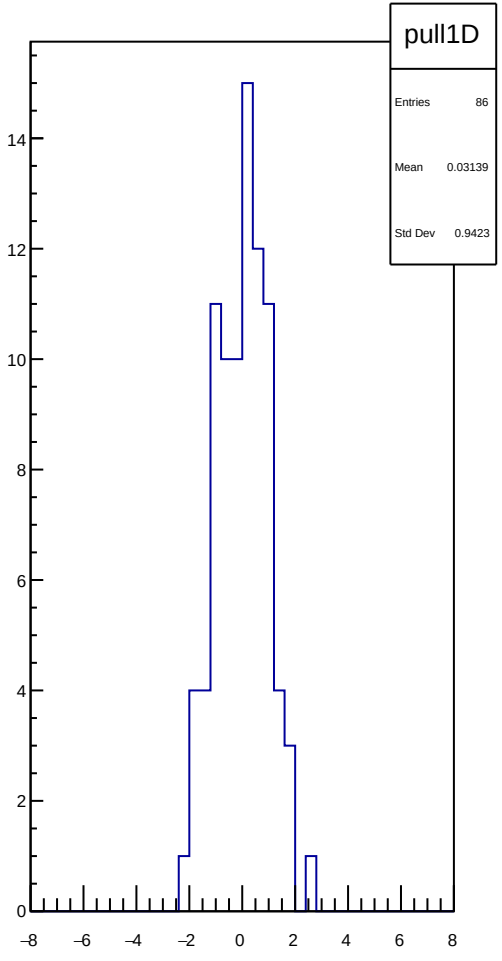

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.121e+06 / 85
p0 9.891e−11 ± 1.313e−13
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

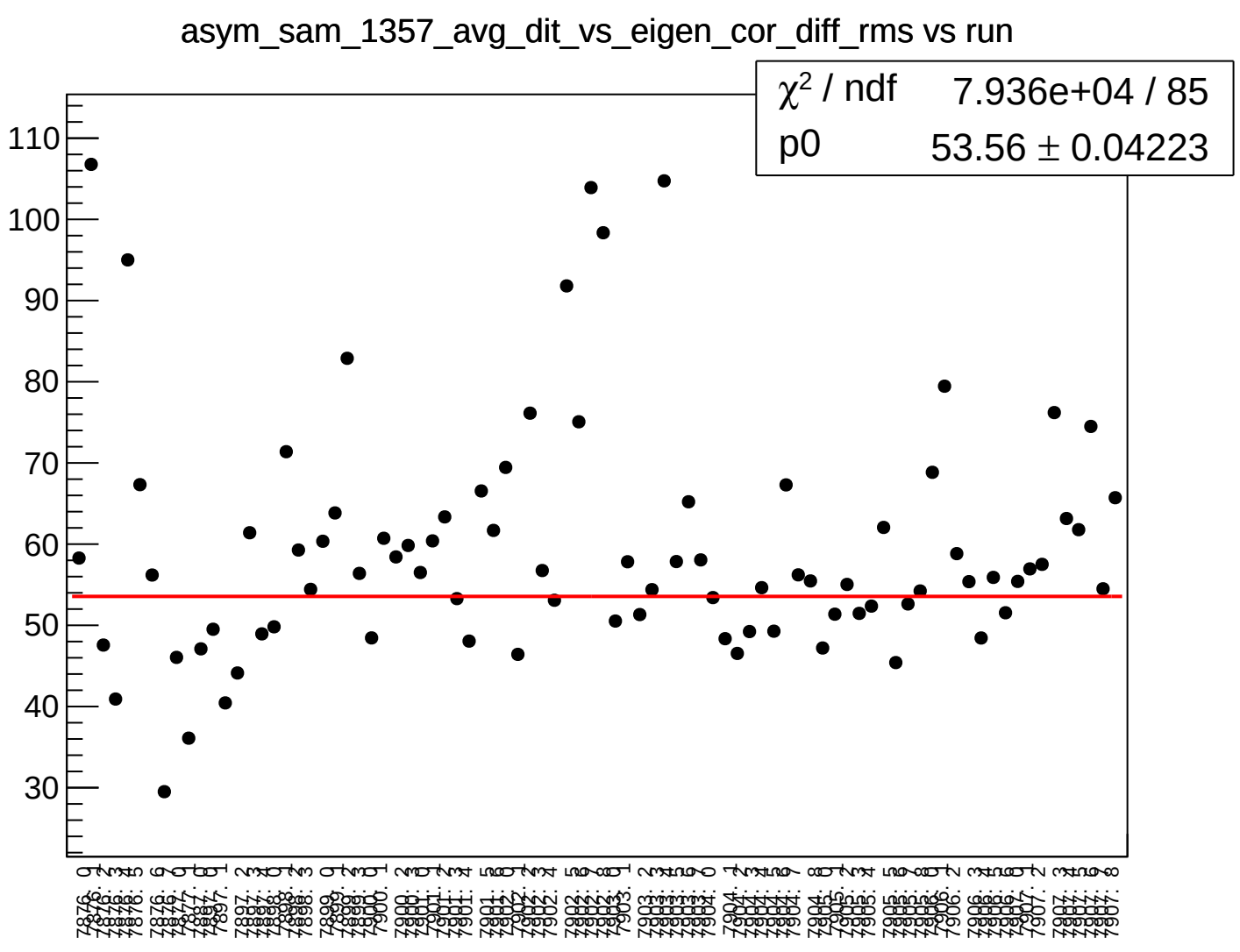

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.44 / 85
p0 −0.06818 ± 0.05972
pull
Entries 86
Mean 66.26
Std Dev 11.89

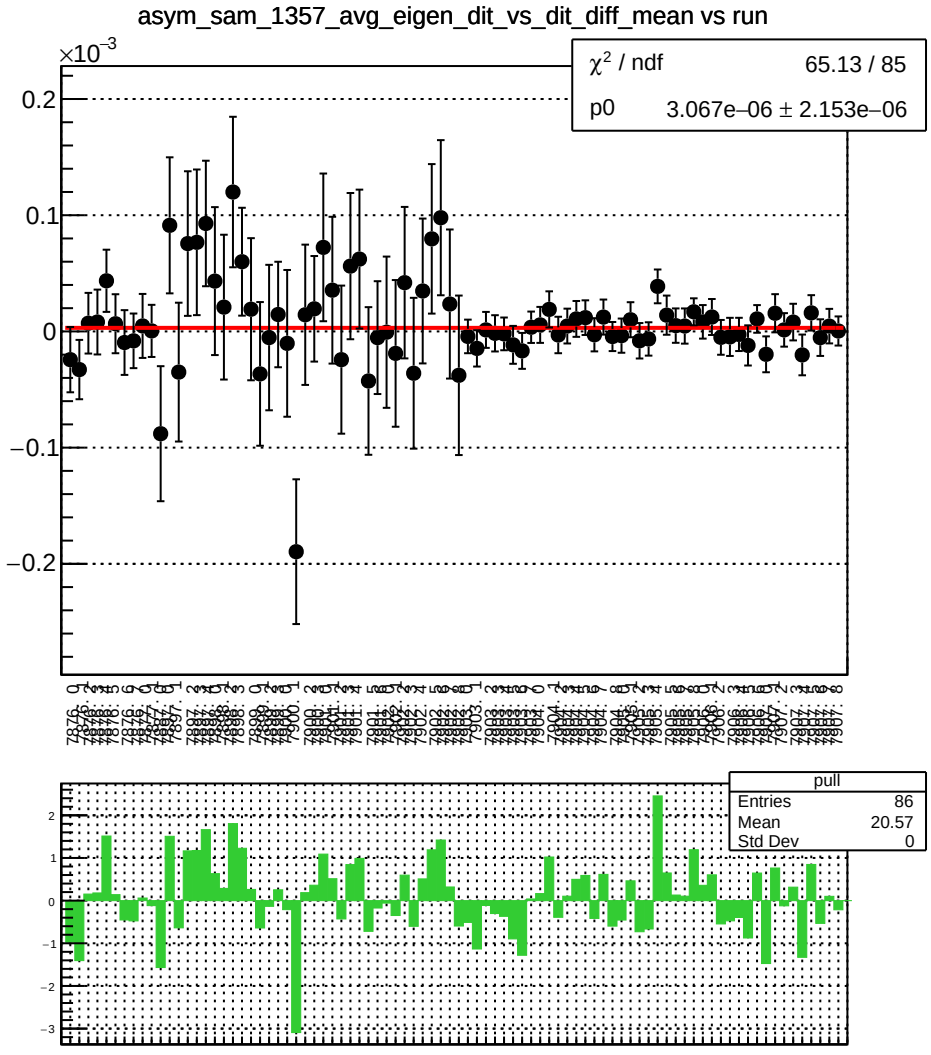

pull1D
Entries 86
Mean 0.03139
Std Dev 0.9423

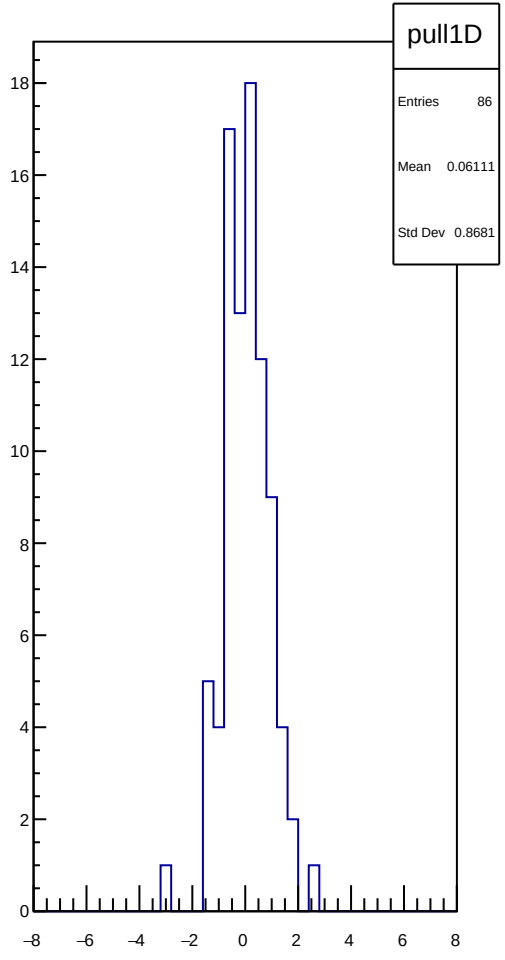

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.936e+04 / 85
p0 53.56 ± 0.04223
110
100
90
80
70
60
50
40
30

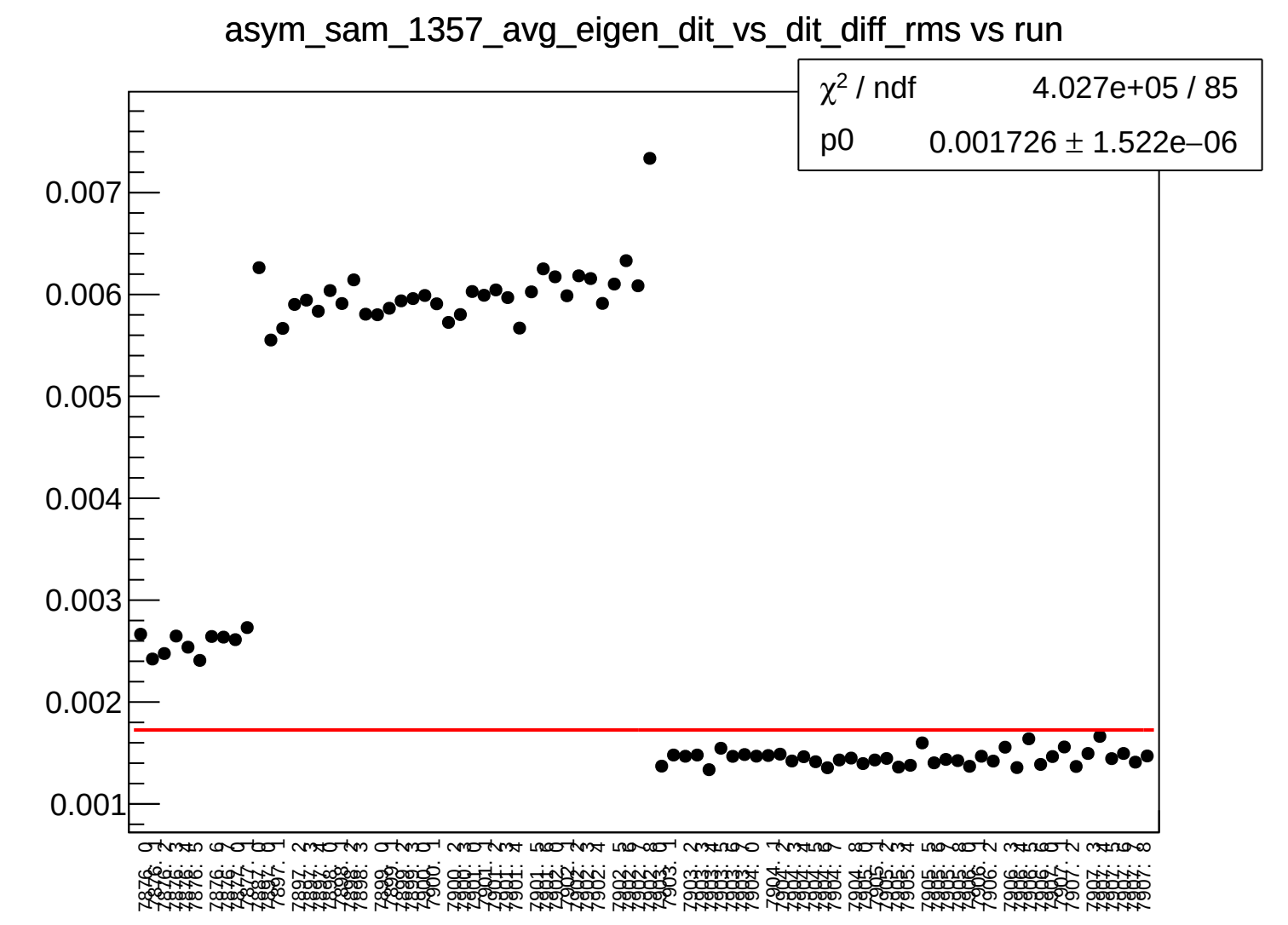

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.44 / 85
p0 −0.06818 ± 0.05972
pull
Entries 86
Mean 66.26
Std Dev 11.89

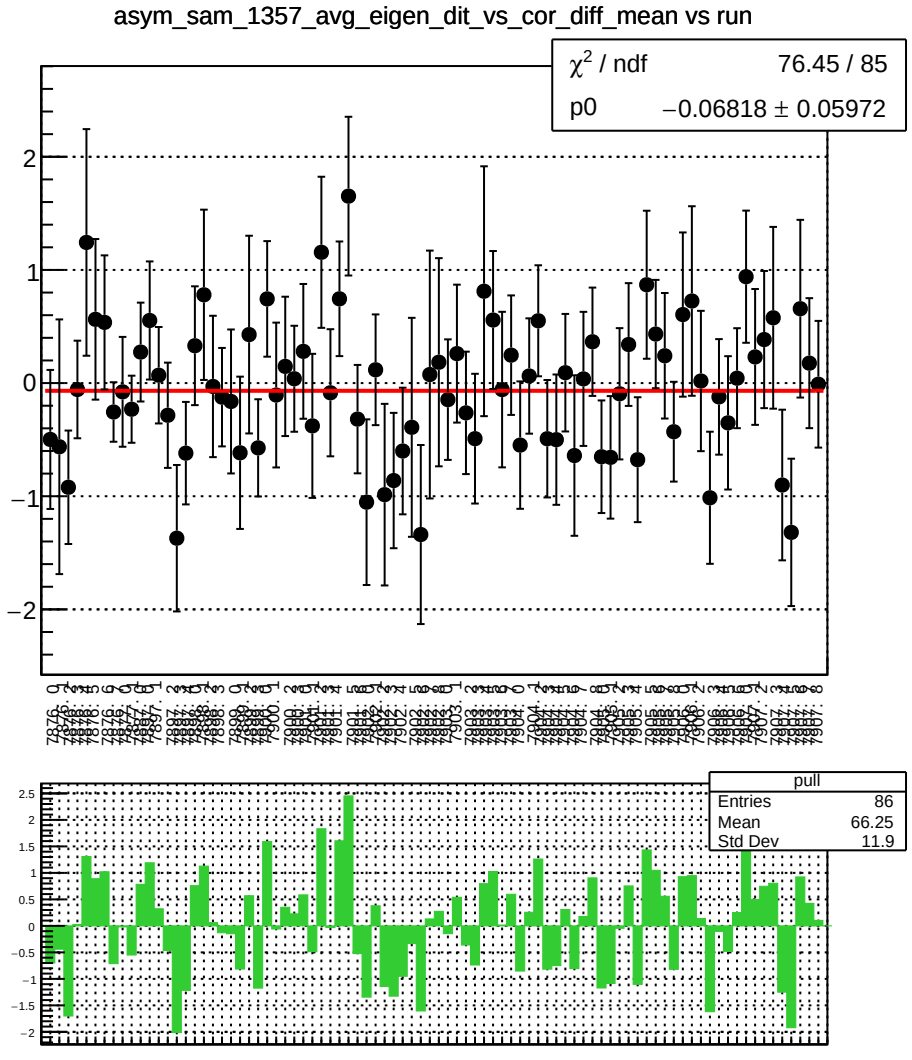

pull1D
Entries 86
Mean 0.03139
Std Dev 0.9423

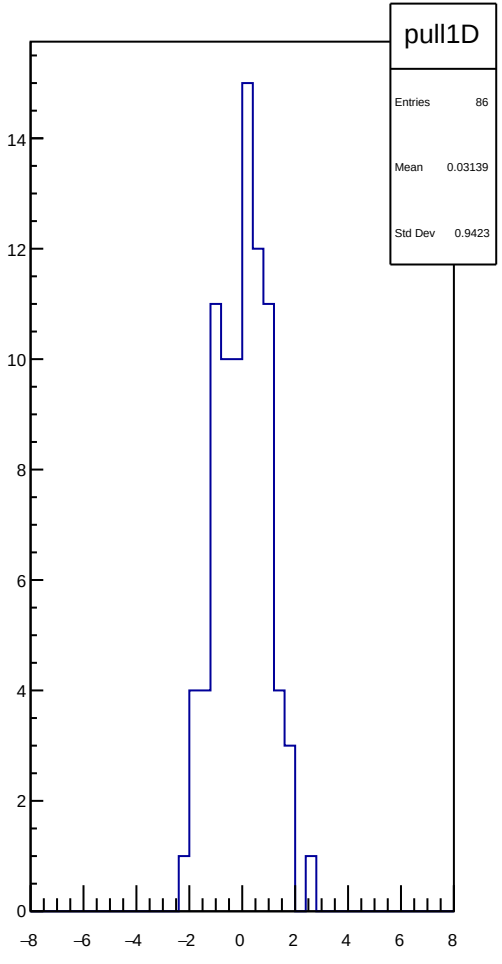

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.936e+04 / 85
p0 53.56 ± 0.04223
110
100
90
80
70
60
50
40
30

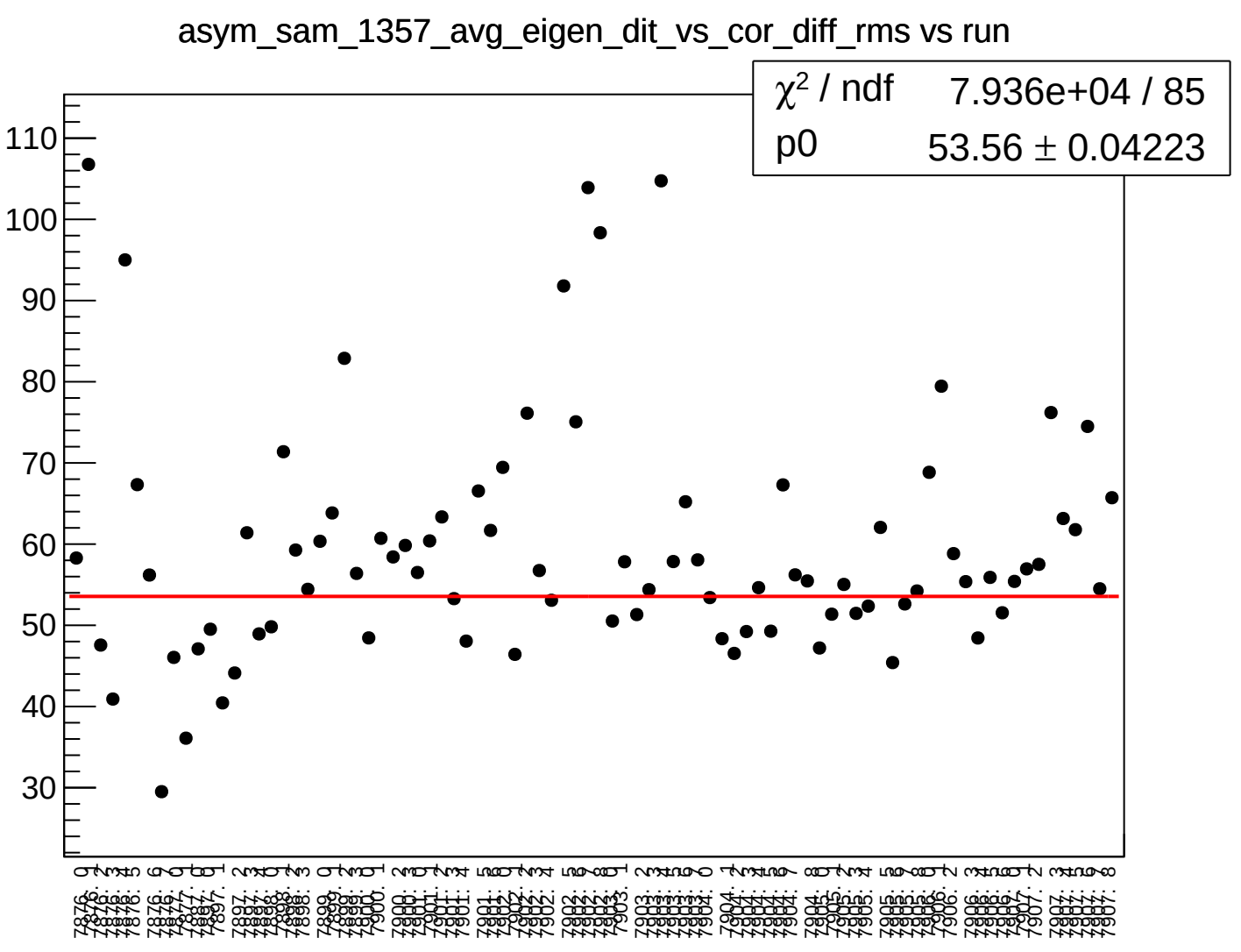

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.13 / 85
p0 3.067e−06 ± 2.153e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean 20.57
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.06111
Std Dev 0.8681
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

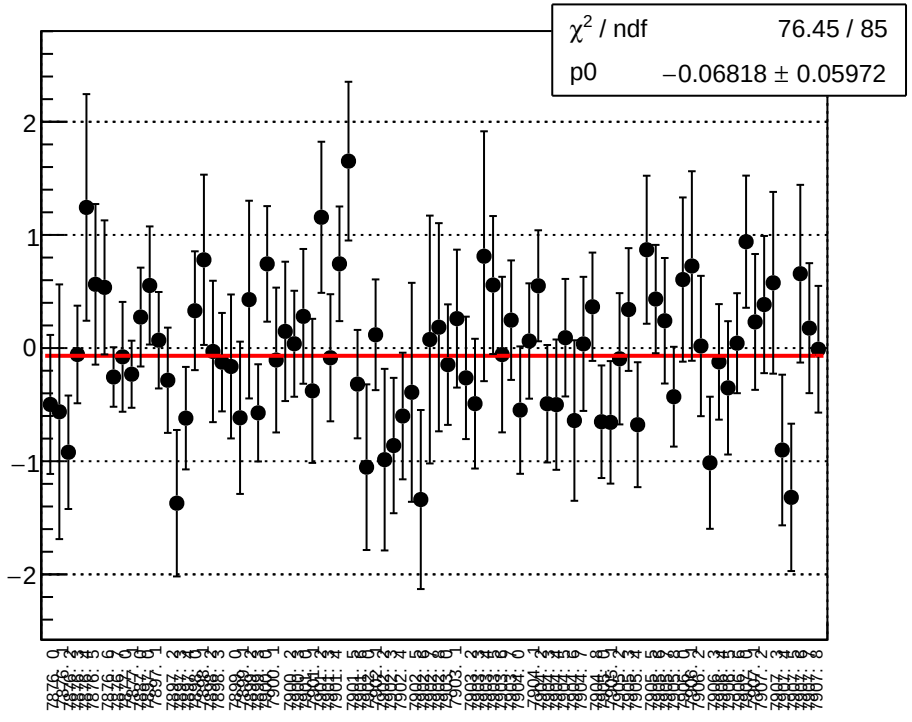

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.027e+05 / 85
p0 0.001726 ± 1.522e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

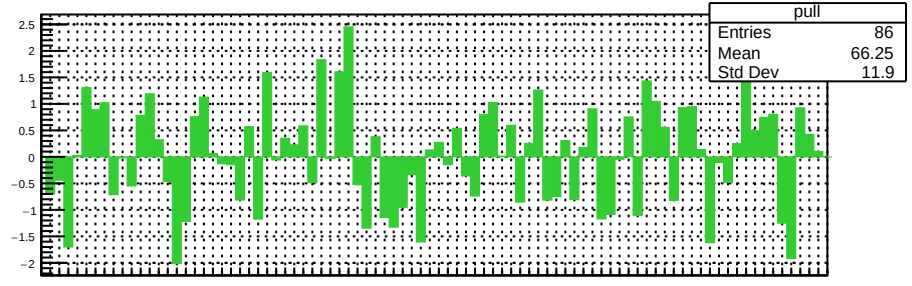

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.45 / 85
p0 −0.06818 ± 0.05972
pull
Entries 86
Mean 66.25
Std Dev 11.9

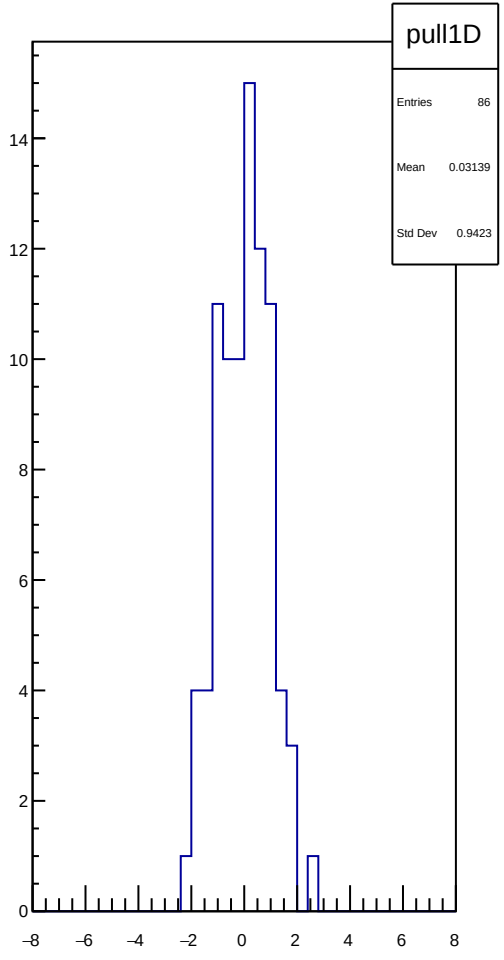

pull1D
Entries 86
Mean 0.03139
Std Dev 0.9423

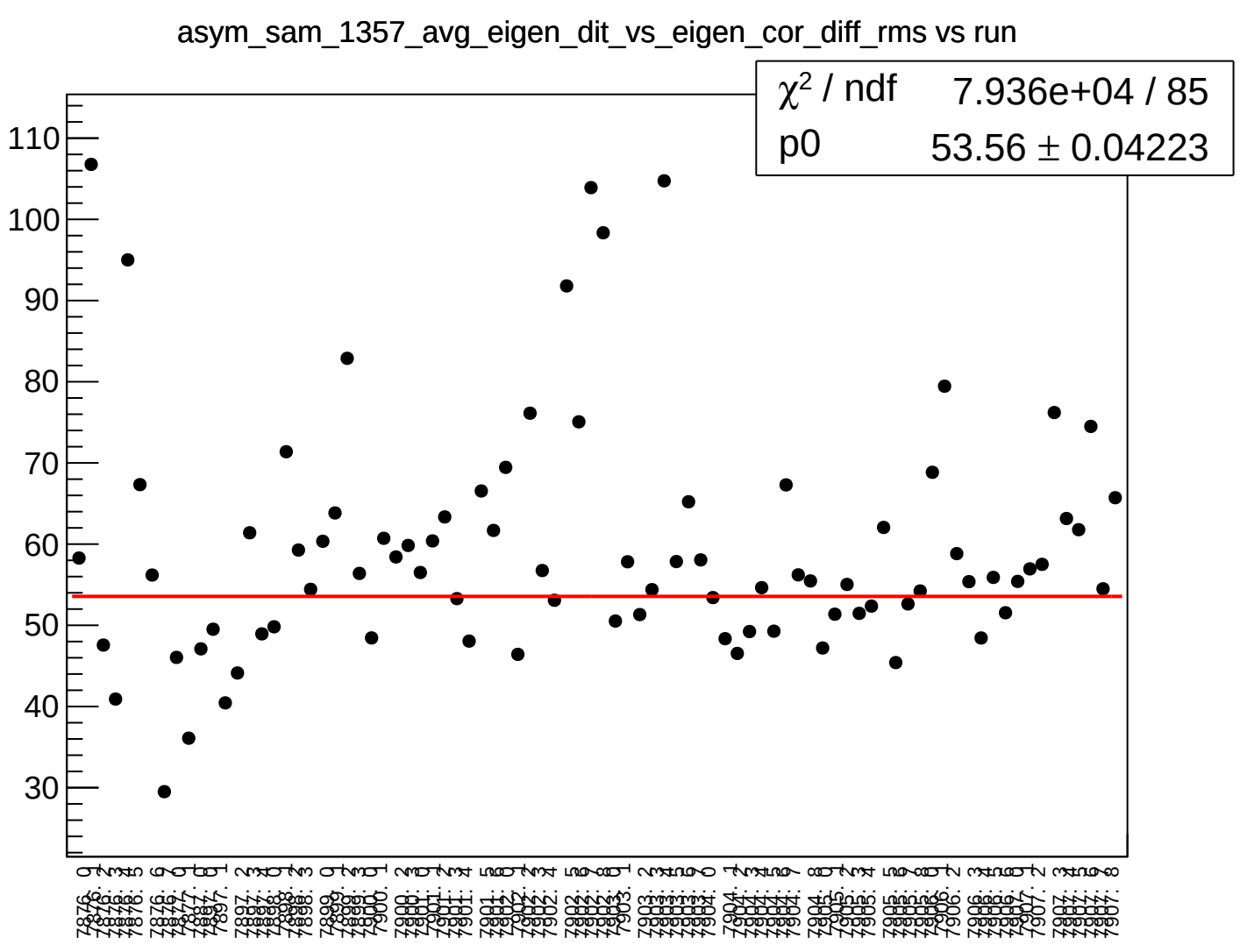

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.936e+04 / 85
p0 53.56 ± 0.04223
110
100
90
80
70
60
50
40
30

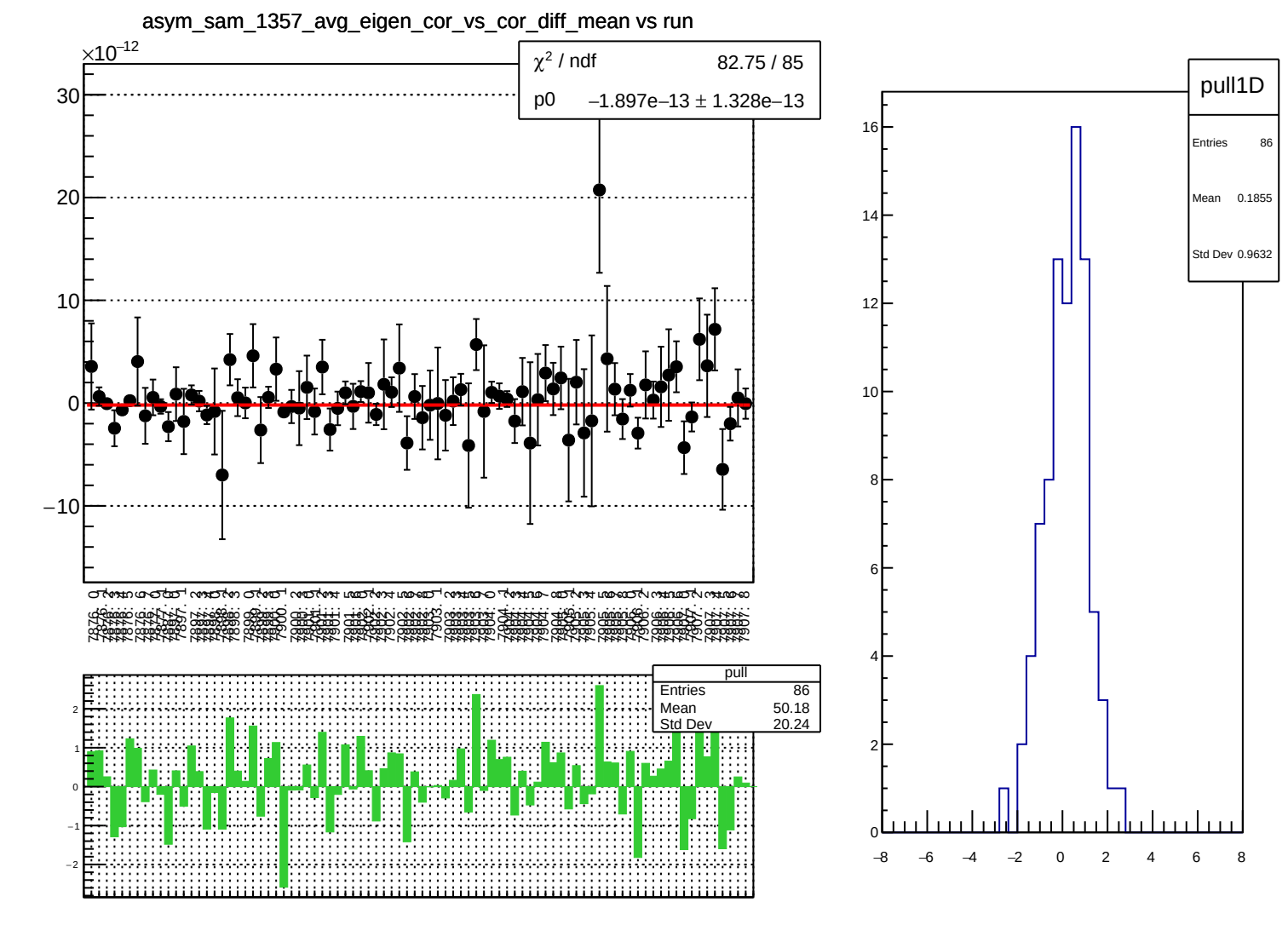
asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

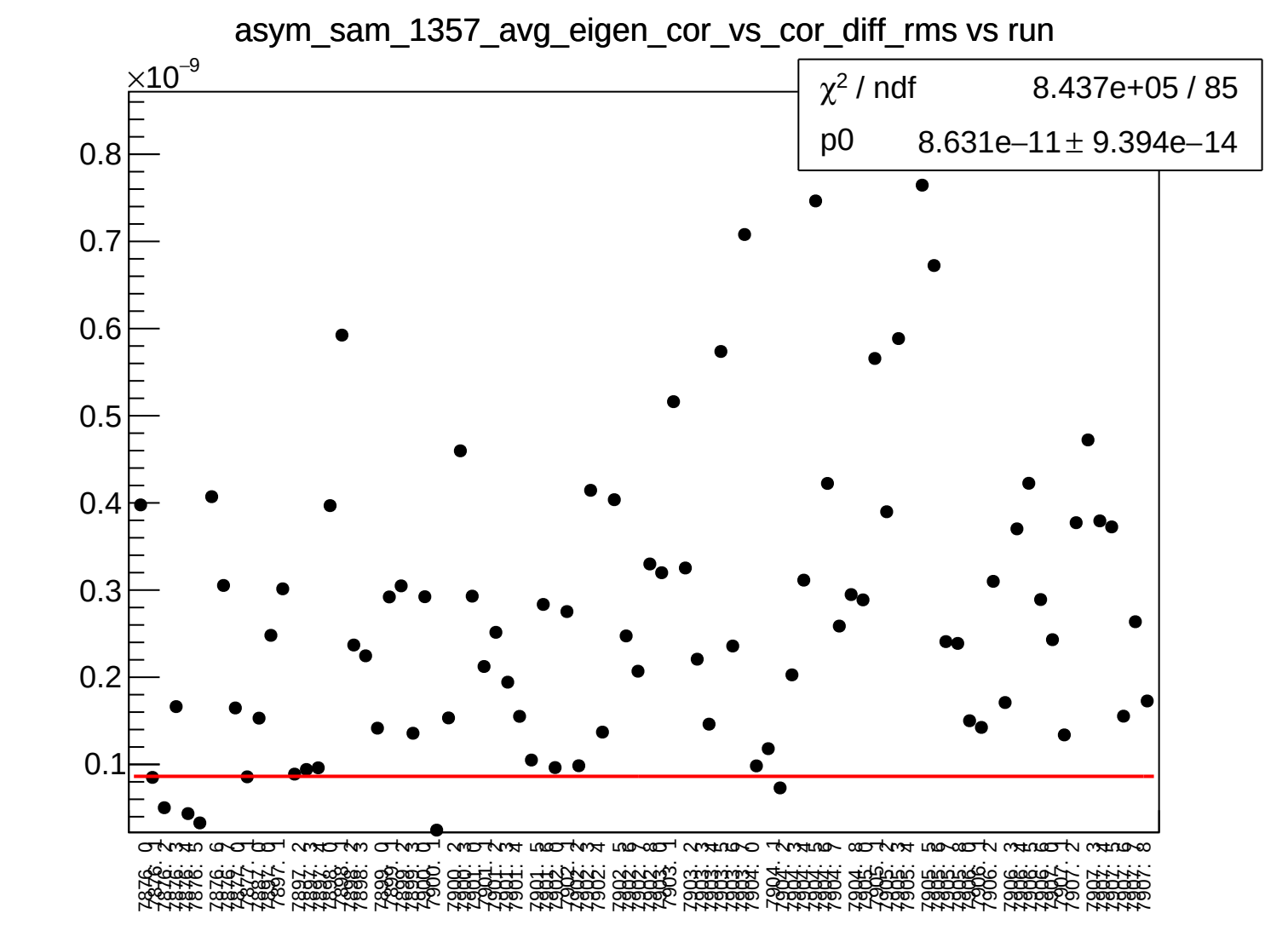


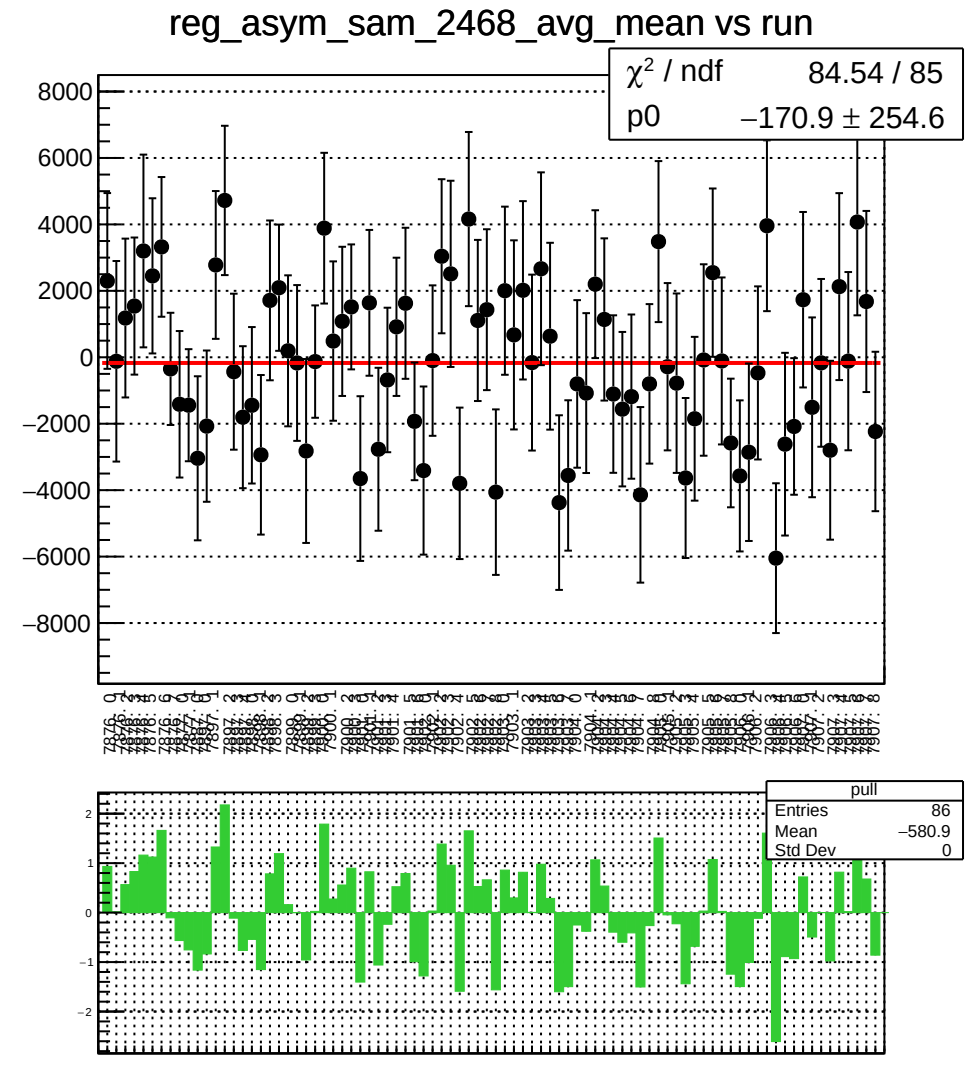


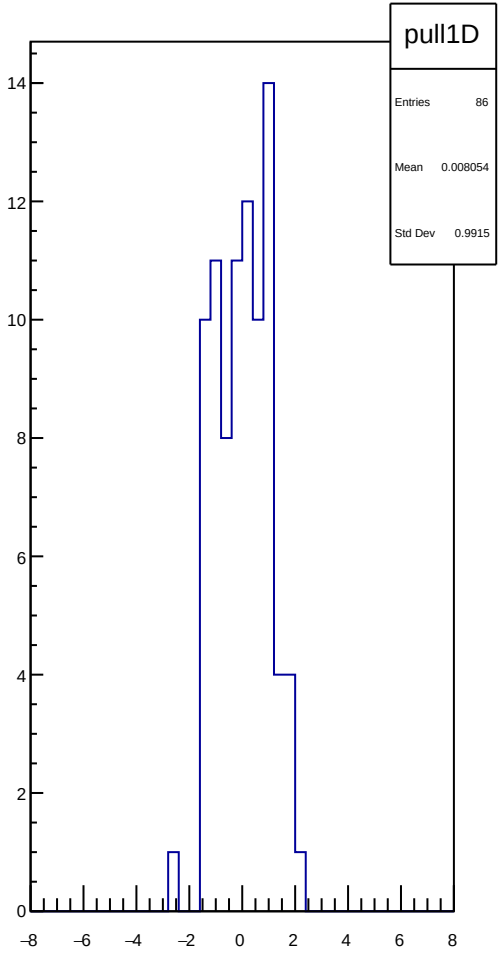


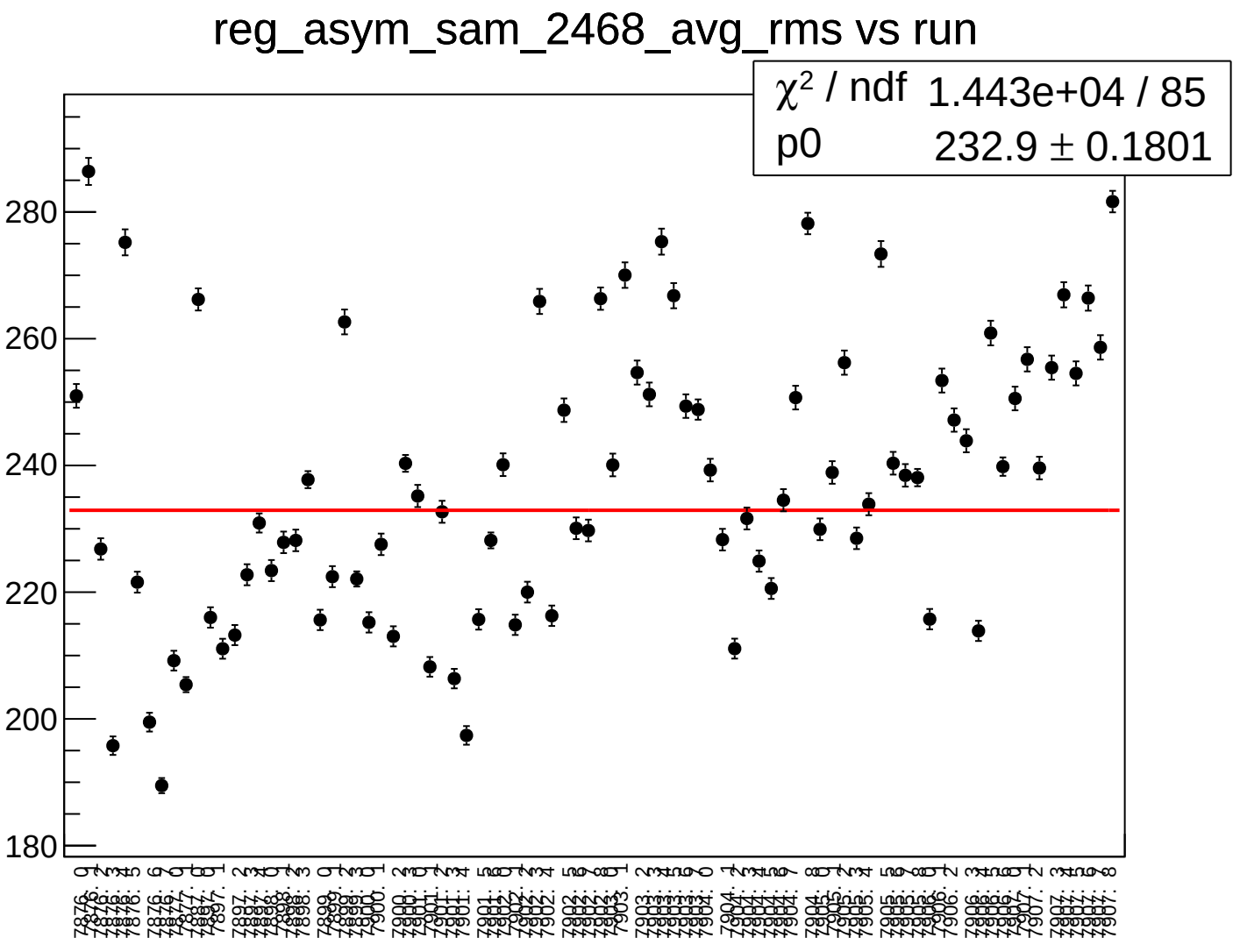

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.936e+04 / 85
p0 53.56 ± 0.04223
110
100
90
80
70
60
50
40
30

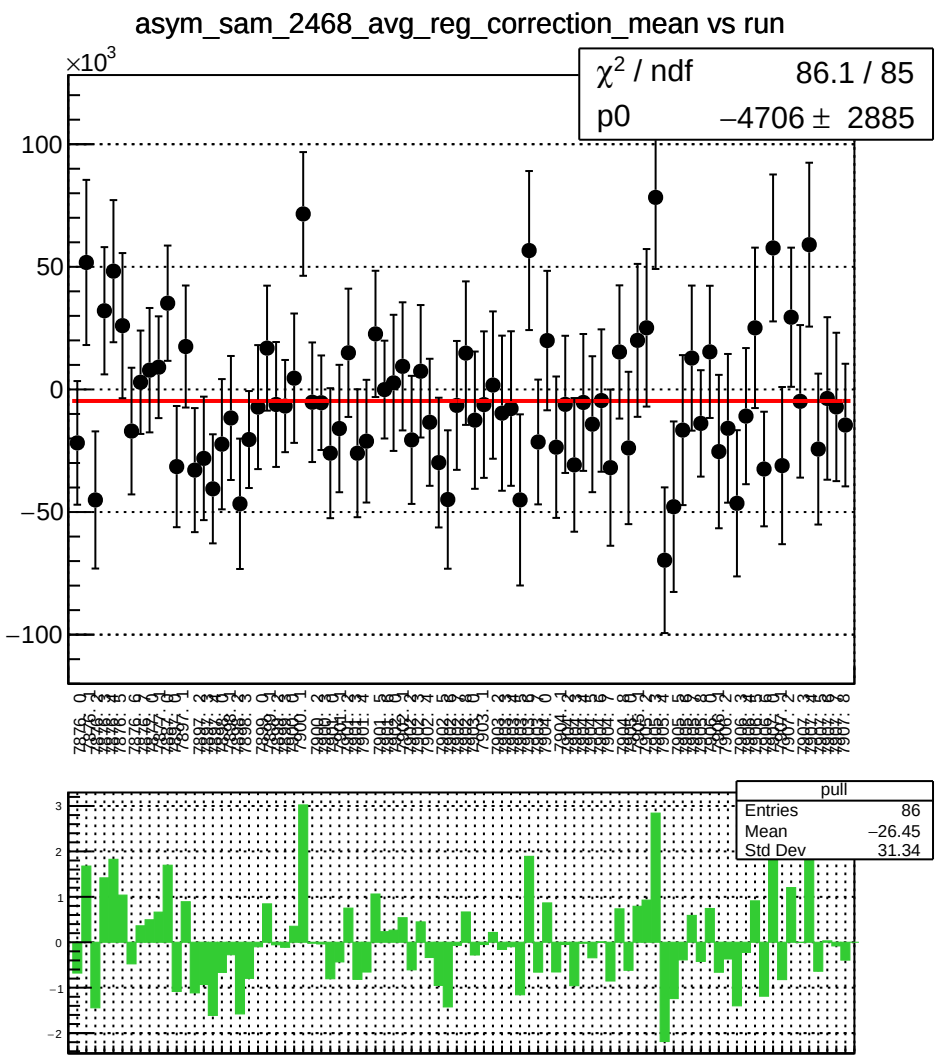

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.75 / 85
p0 −1.897e−13 ± 1.328e−13
30
20
10
0
−10
pull
Entries 86
Mean 50.18
Std Dev 20.24
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.1855
Std Dev 0.9632
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

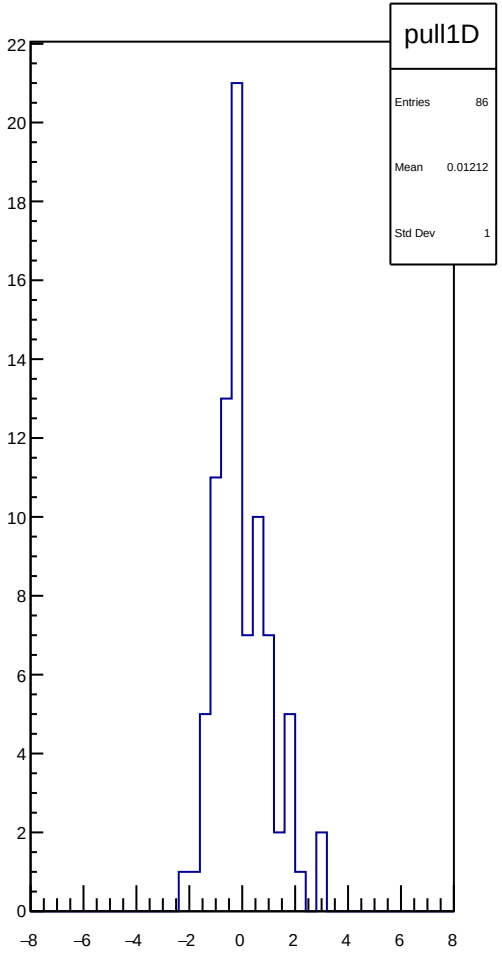

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.437e+05 / 85
p0 8.631e−11 ± 9.394e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

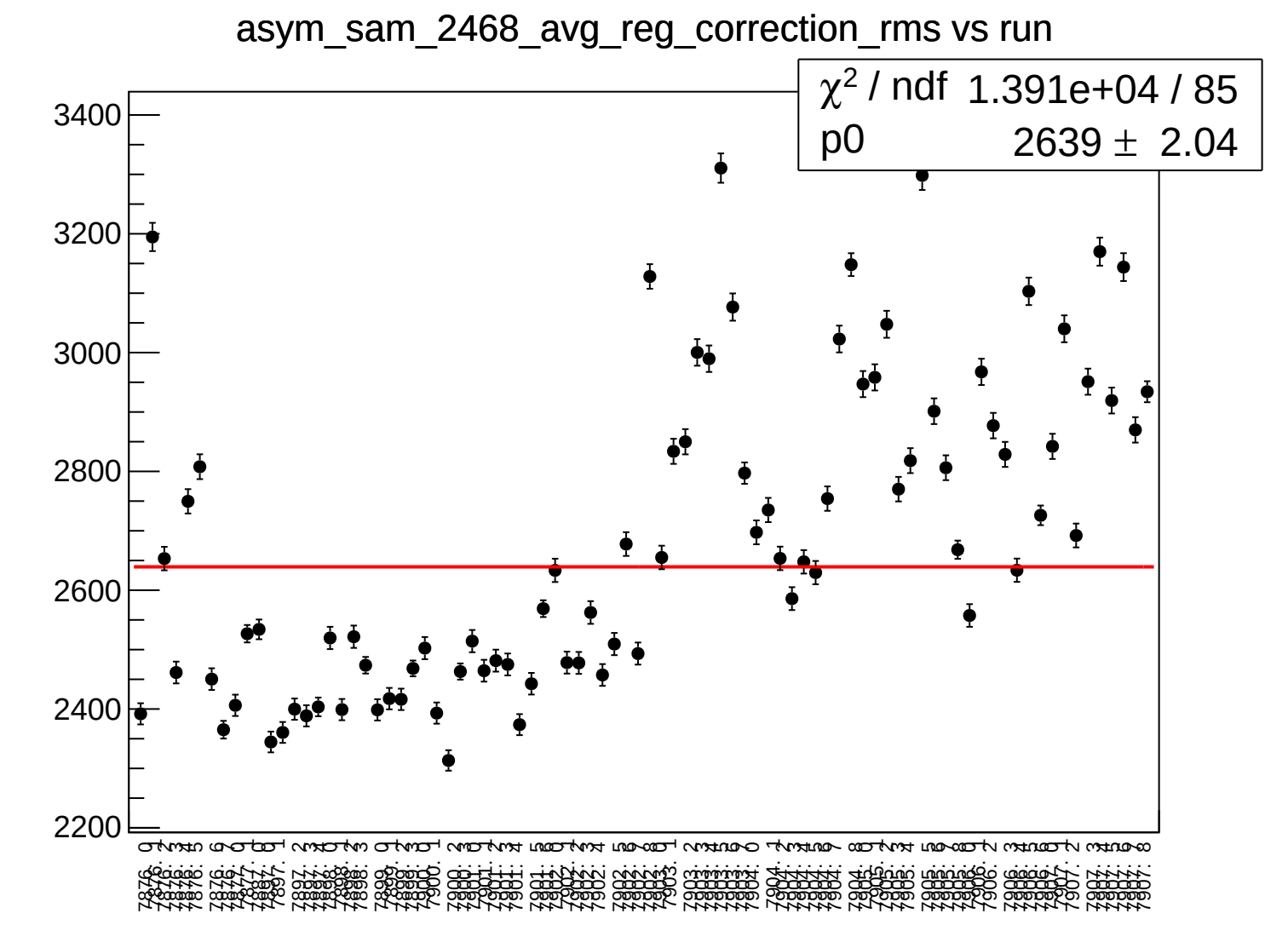

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 84.54 / 85
p0 −170.9 ± 254.6
pull
Entries 86
Mean −580.9
Std Dev 0

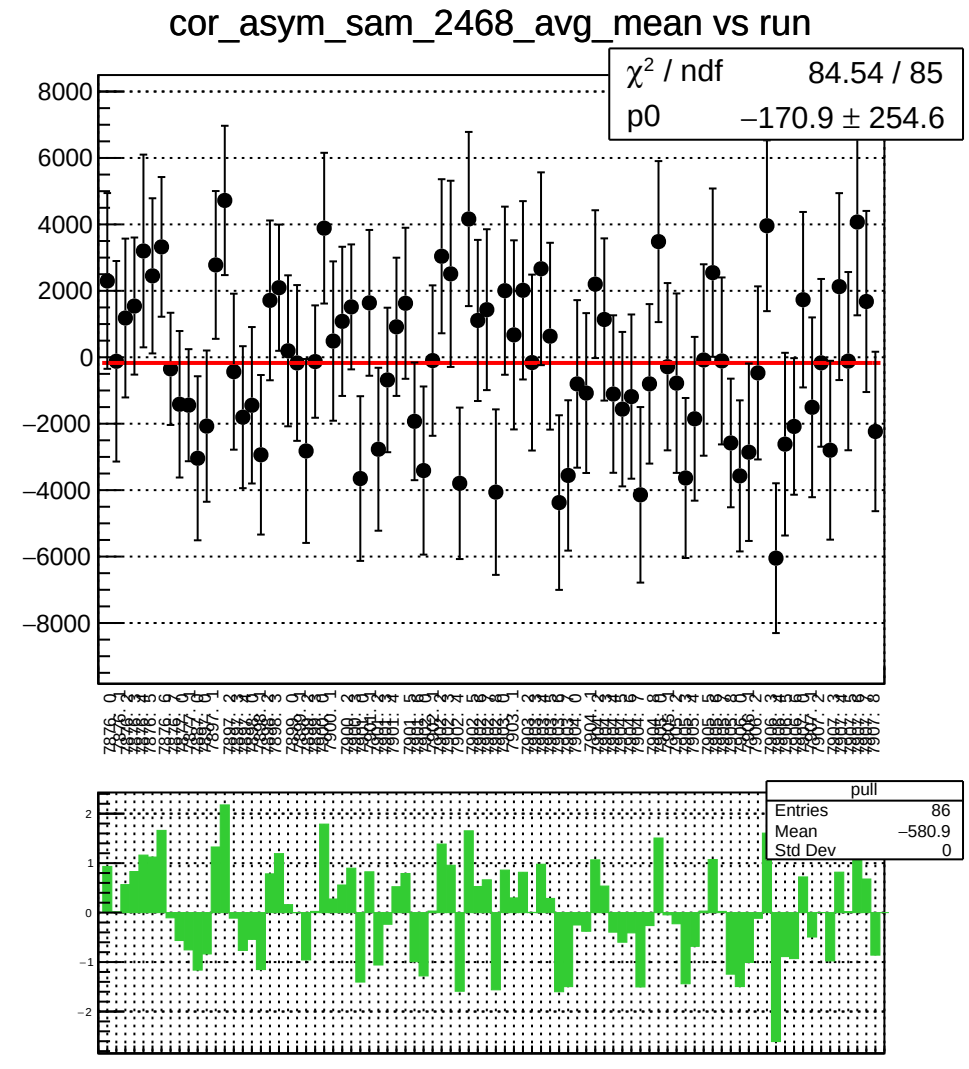

pull1D
Entries 86
Mean 0.008054
Std Dev 0.9915

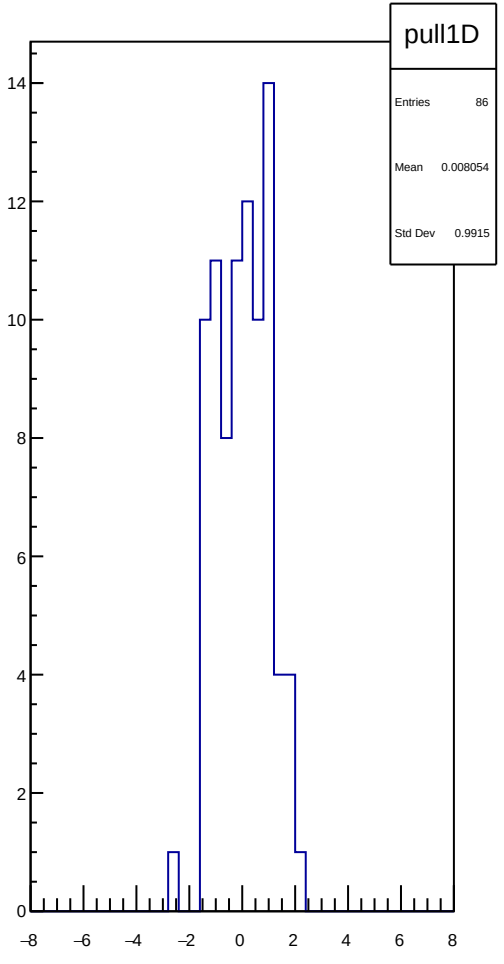

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.443e+04 / 85
p0 232.9 ± 0.1801
280
260
240
220
200
180

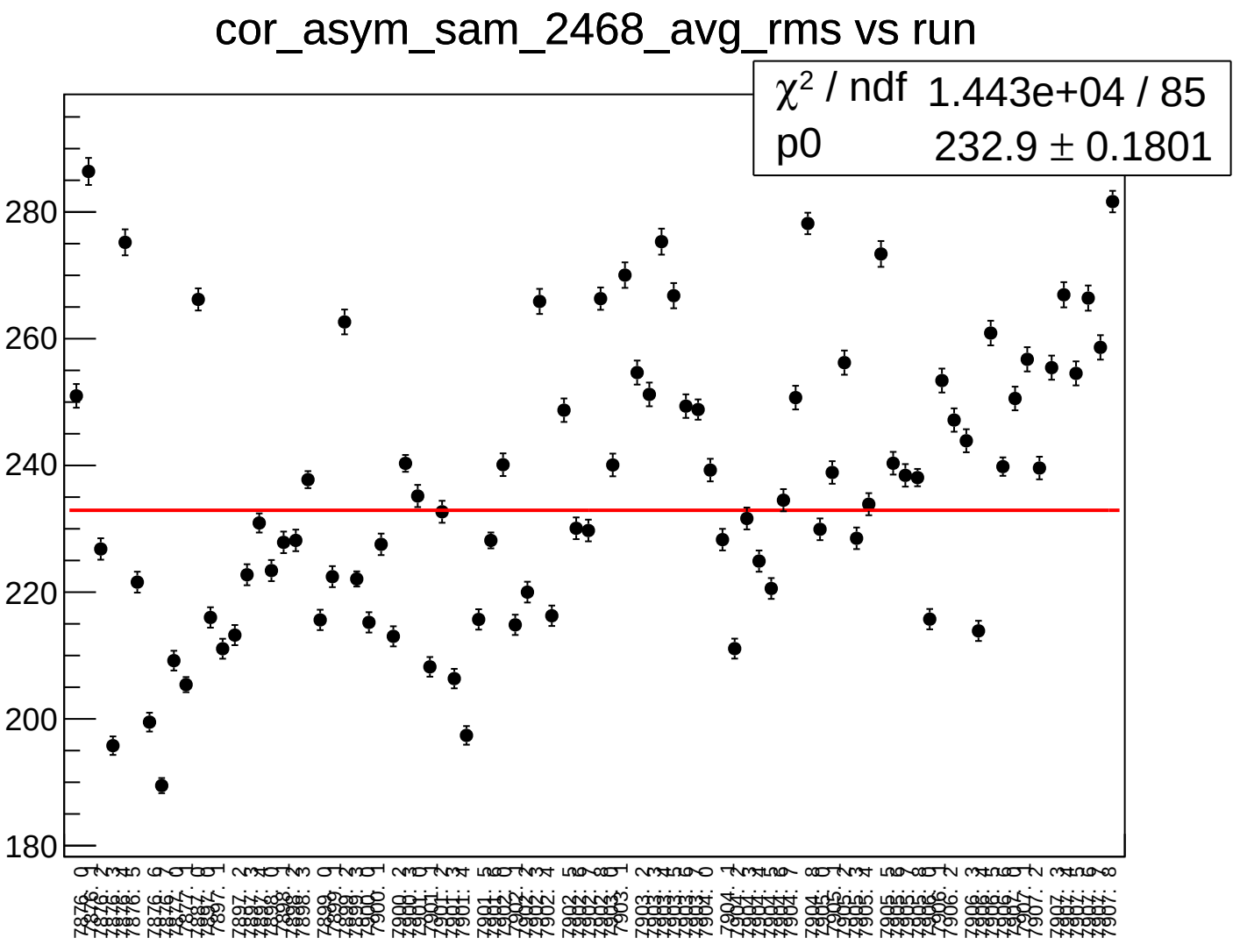

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.1 / 85
p0 −4706 ± 2885
100
50
0
−50
−100
pull
Entries 86
Mean −26.45
Std Dev 31.34
3
2
1
0
−1
−2

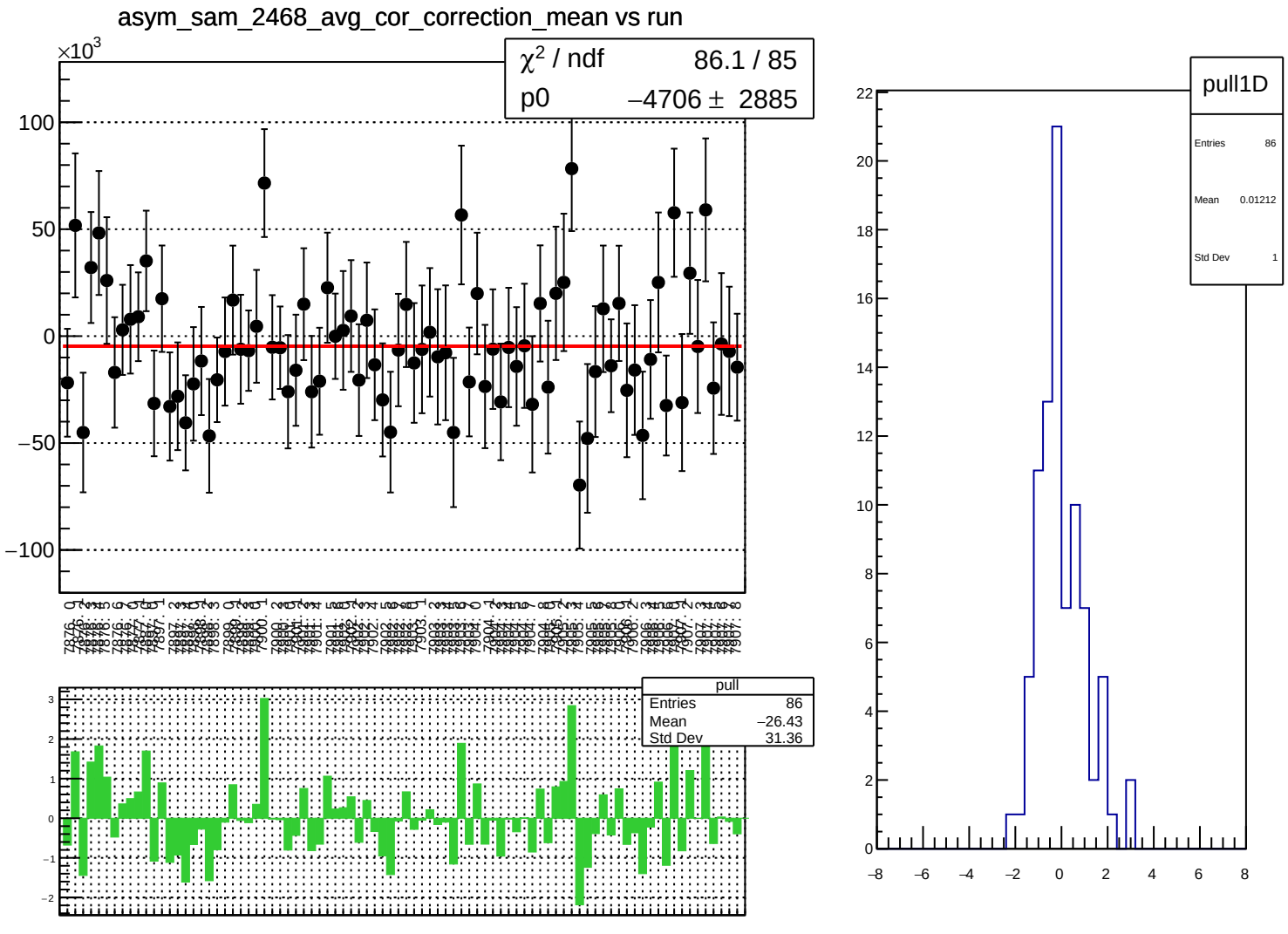

pull1D
Entries 86
Mean 0.01212
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

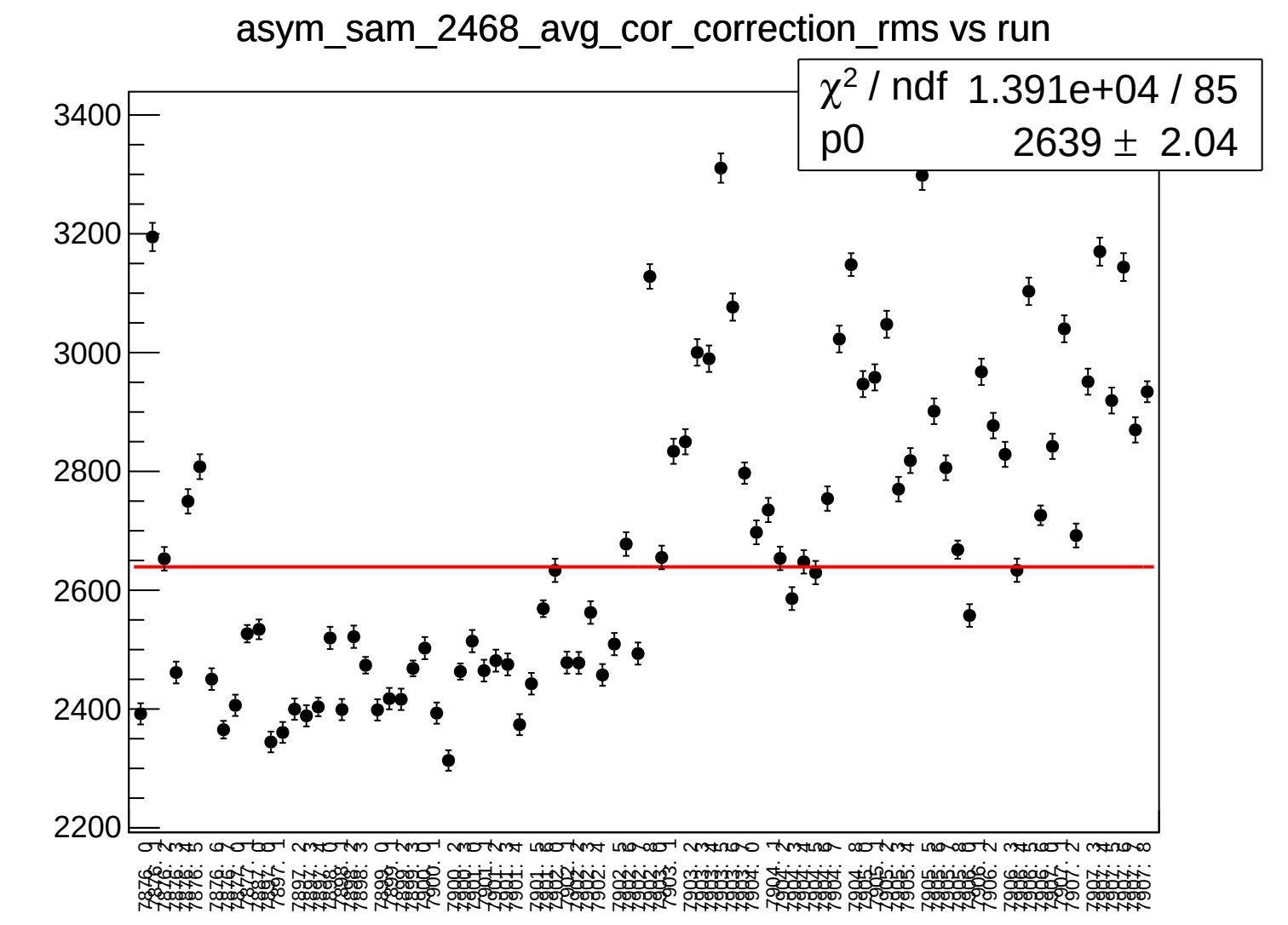

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.391e+04 / 85
p0 2639 ± 2.04
3400
3200
3000
2800
2600
2400
2200

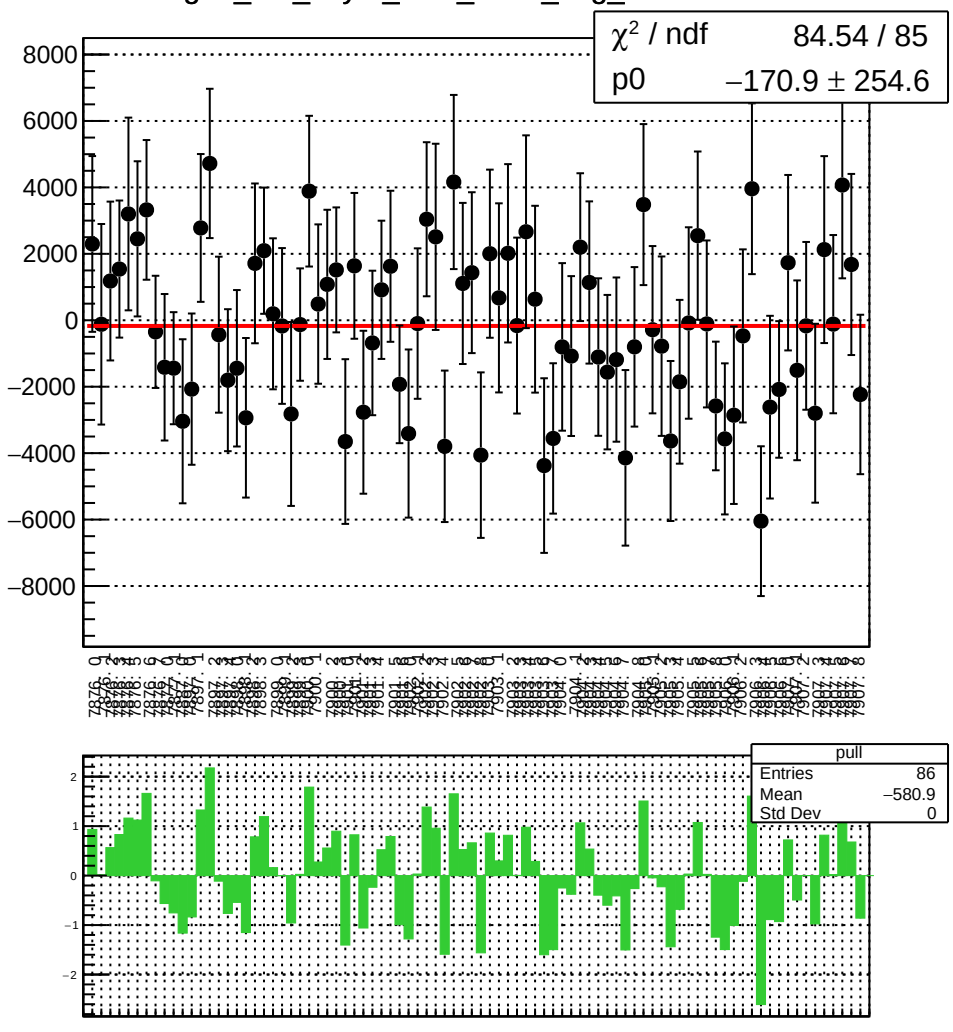

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 84.54 / 85
p0 −170.9 ± 254.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −580.9
Std Dev 0
2
1
0
−1
−2

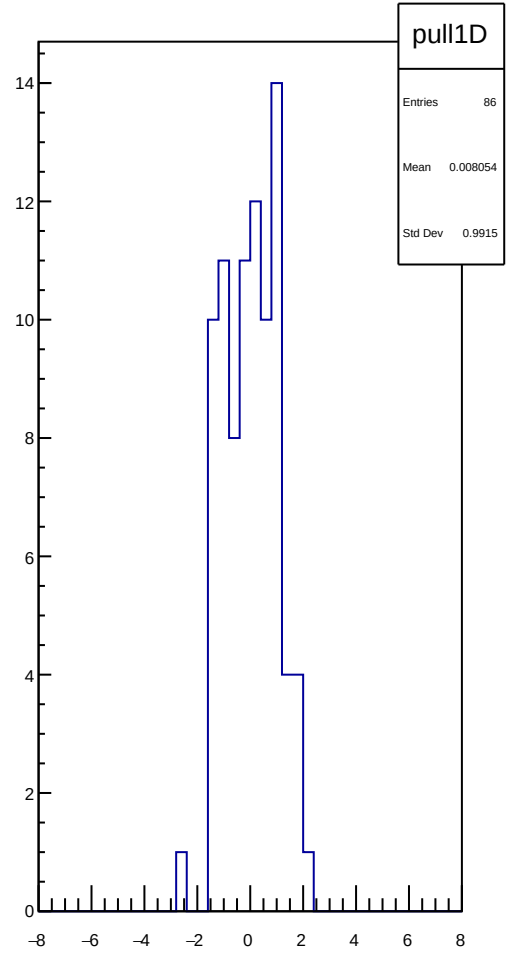

pull1D
Entries 86
Mean 0.008054
Std Dev 0.9915
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

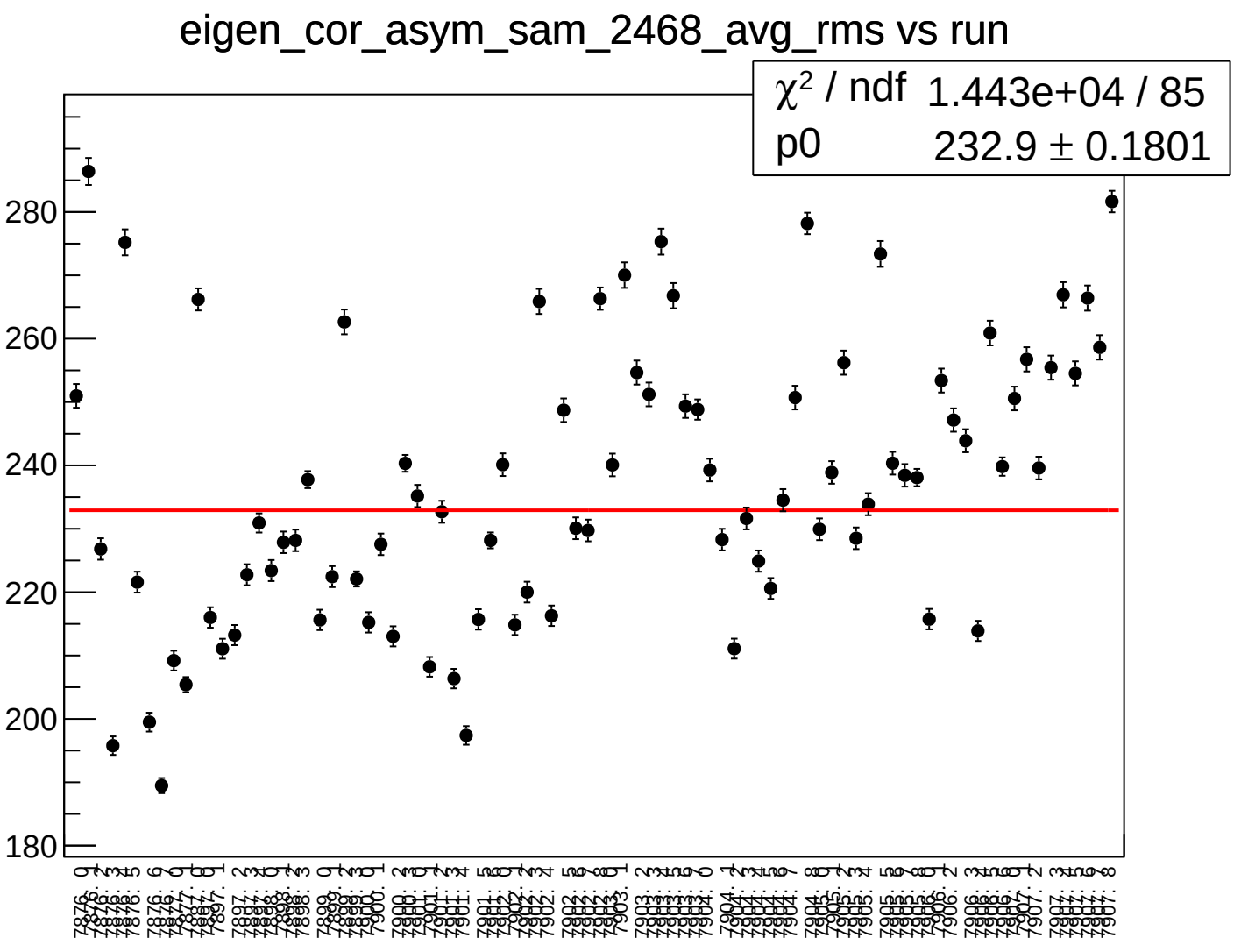

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.443e+04 / 85
p0 232.9 ± 0.1801
280
260
240
220
200
180

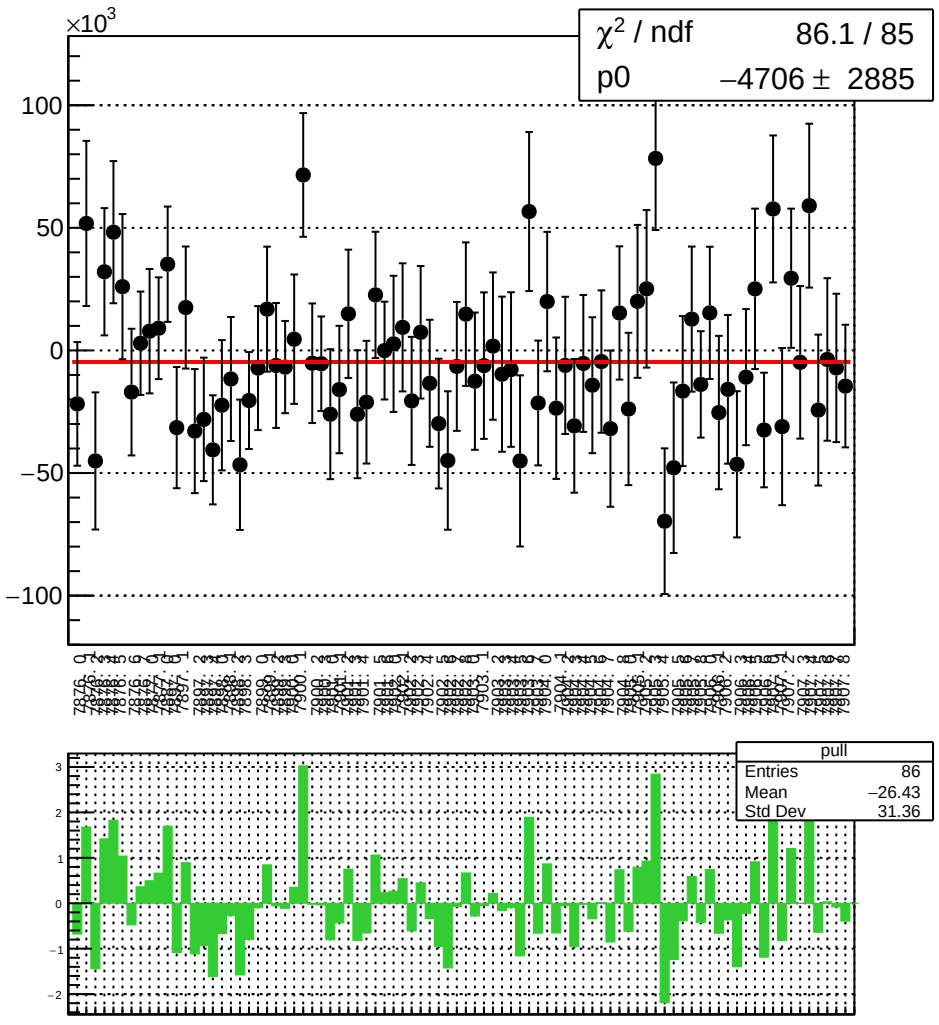

asym_sam_2468_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.1 / 85
p0 −4706 ± 2885
100
50
0
−50
−100
pull
Entries 86
Mean −26.43
Std Dev 31.36
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01212
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

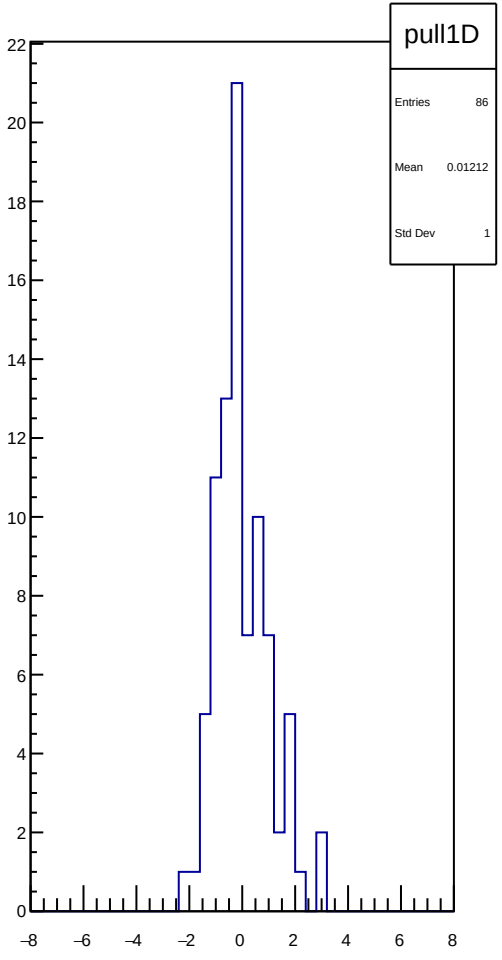

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.391e+04 / 85
p0 2639 ± 2.04
3400
3200
3000
2800
2600
2400
2200

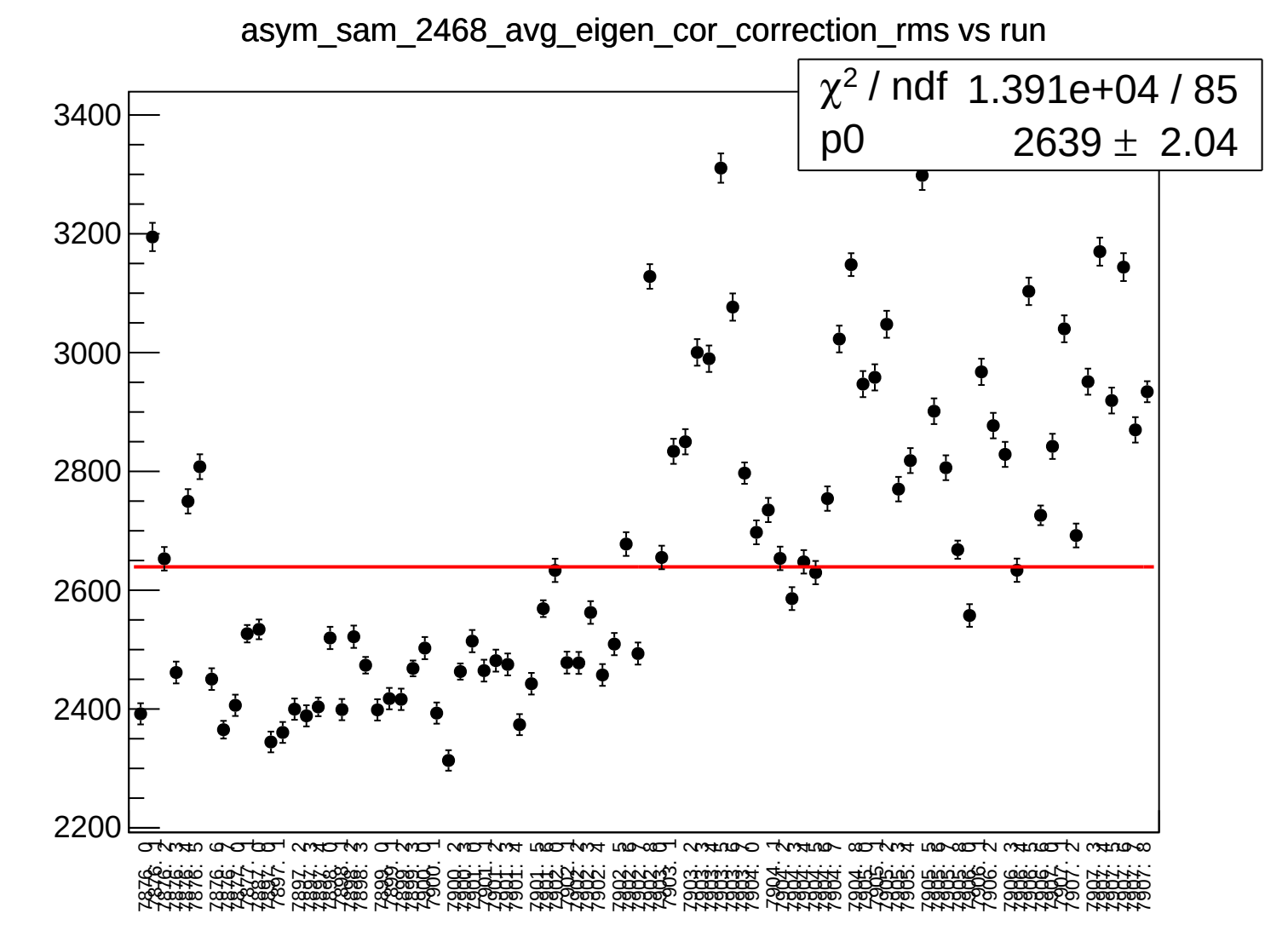

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 84.54 / 85
p0 −170.9 ± 254.6
pull
Entries 86
Mean −580.9
Std Dev 0

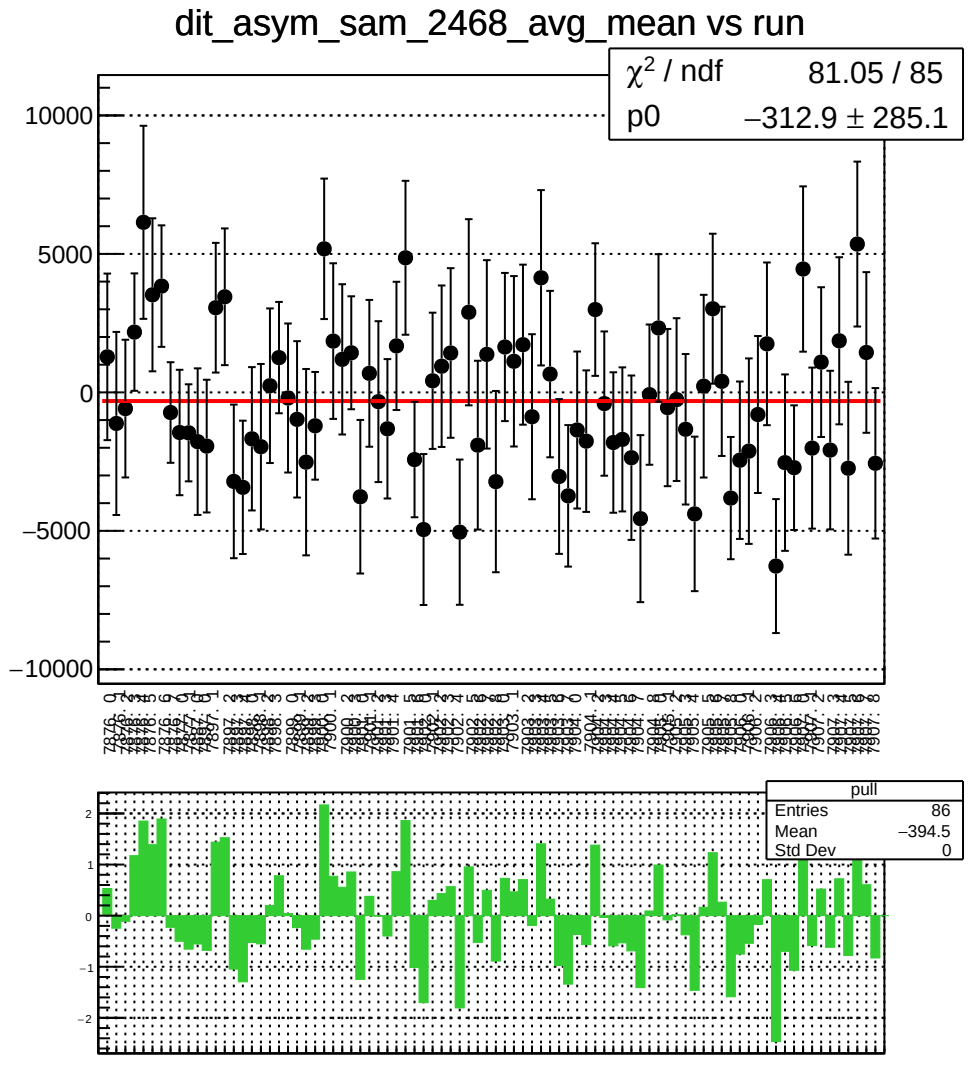

pull1D
Entries 86
Mean 0.008054
Std Dev 0.9915

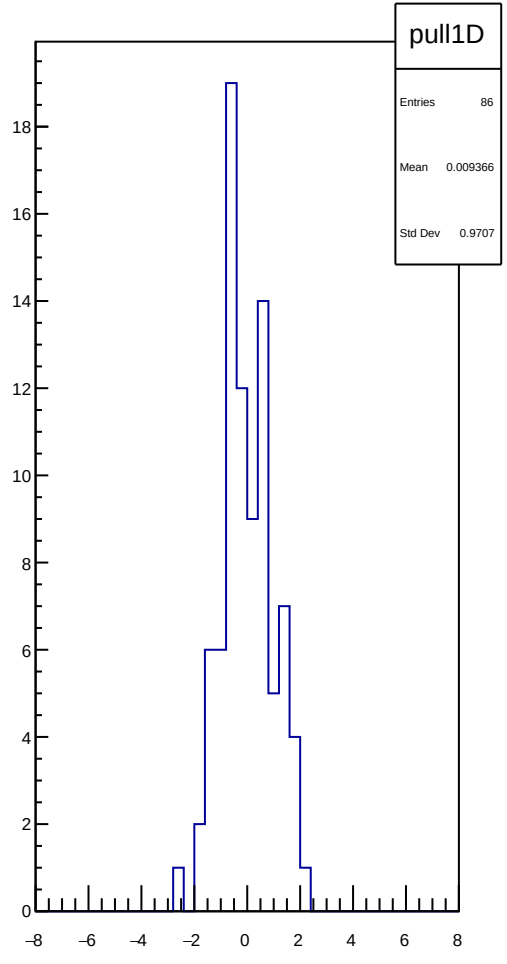

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.443e+04 / 85
p0 232.9 ± 0.1801
280
260
240
220
200
180

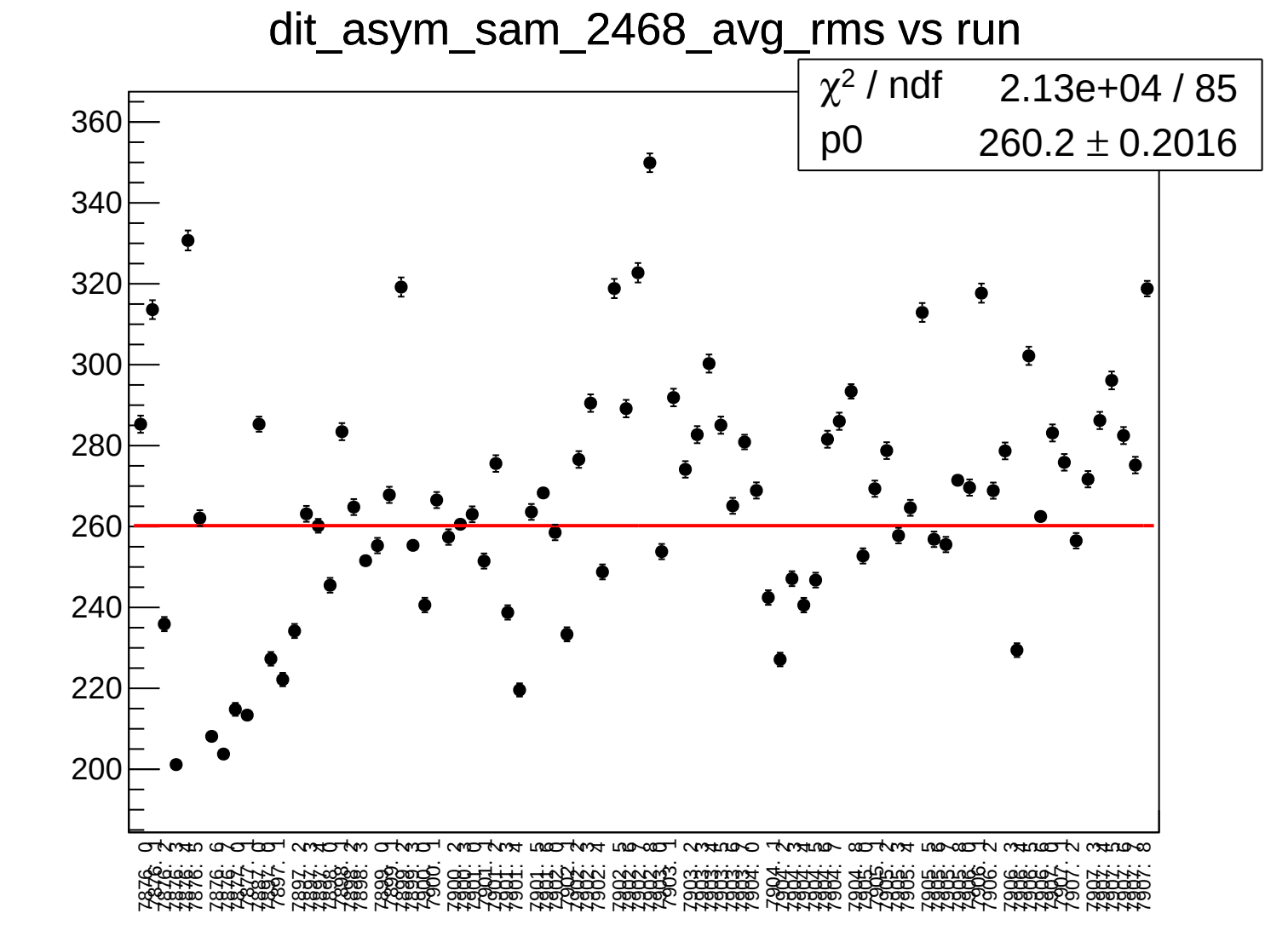

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.1 / 85
p0 −4706 ± 2885
100
50
0
−50
−100
pull
Entries 86
Mean −26.43
Std Dev 31.36
3
2
1
0
−1
−2

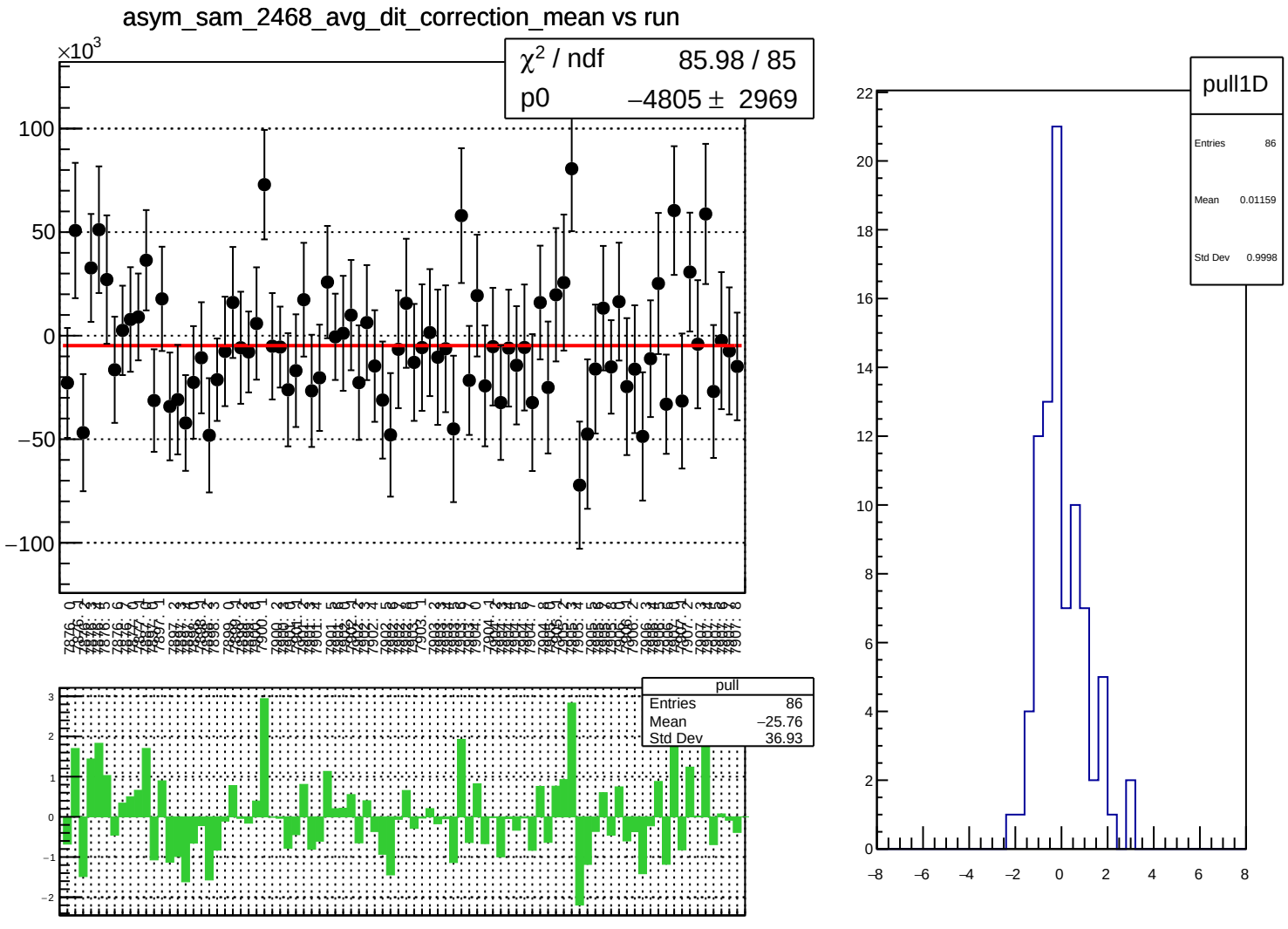

pull1D
Entries 86
Mean 0.01212
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

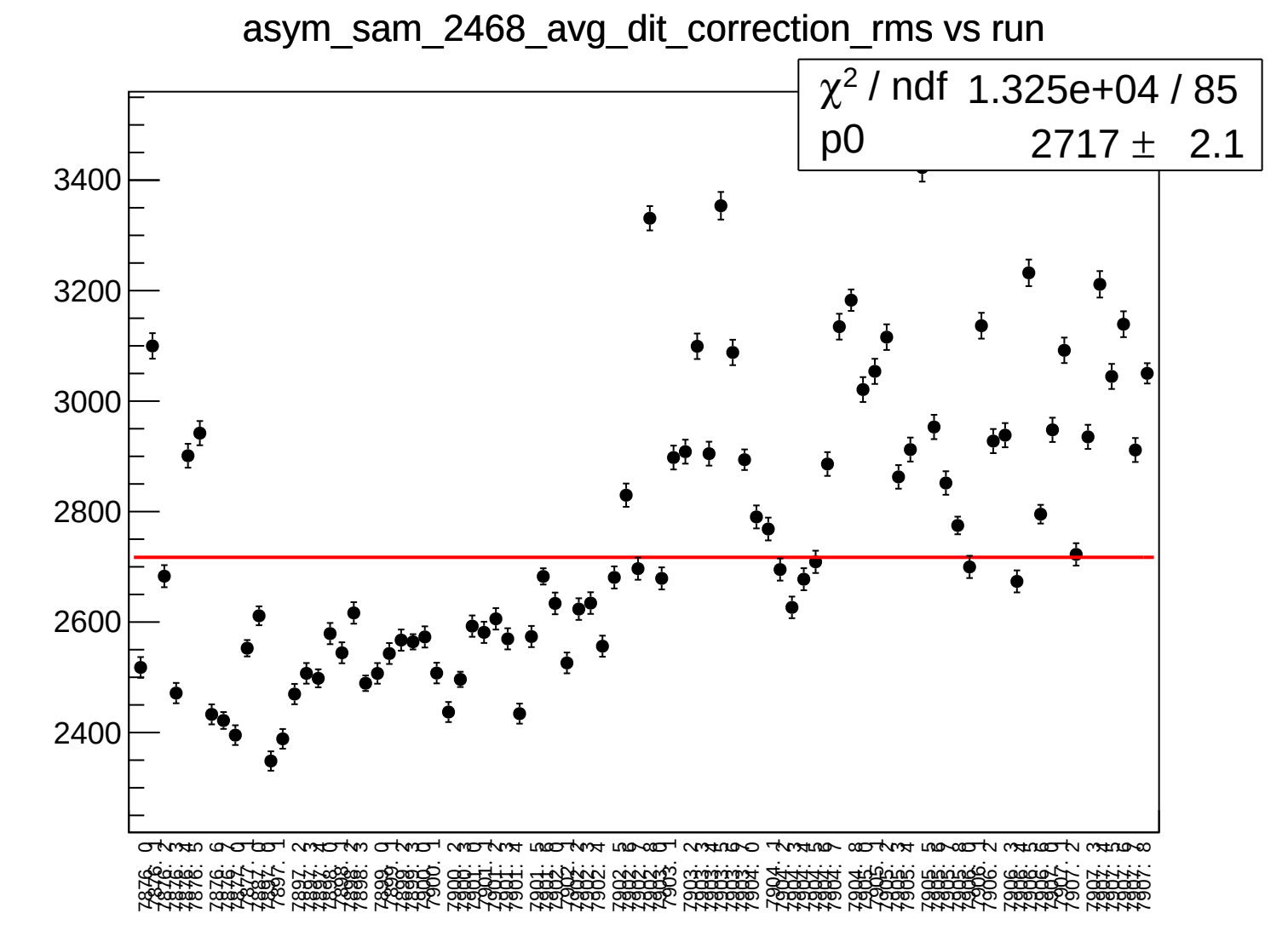

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.391e+04 / 85
p0 2639 ± 2.04
3400
3200
3000
2800
2600
2400
2200

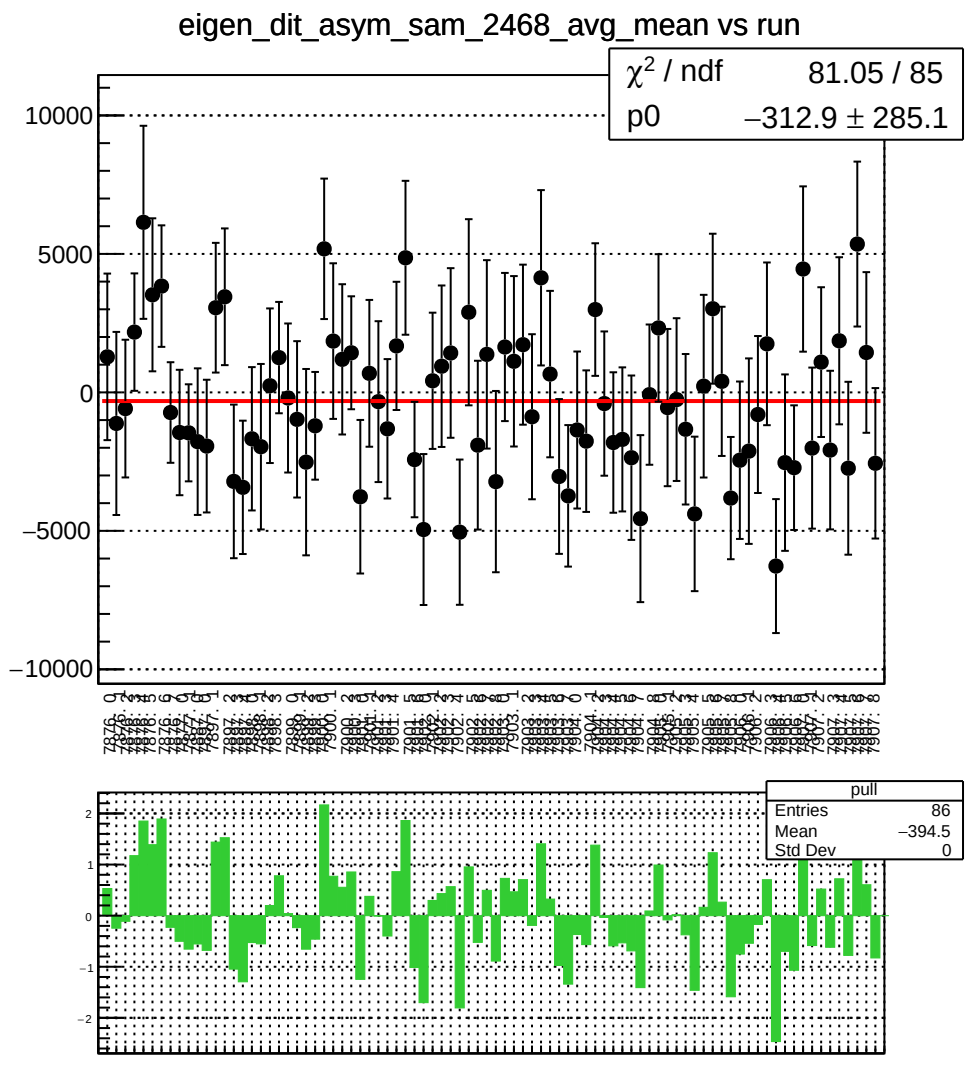

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 81.05 / 85
p0 −312.9 ± 285.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −394.5
Std Dev 0
2
1
0
−1
−2

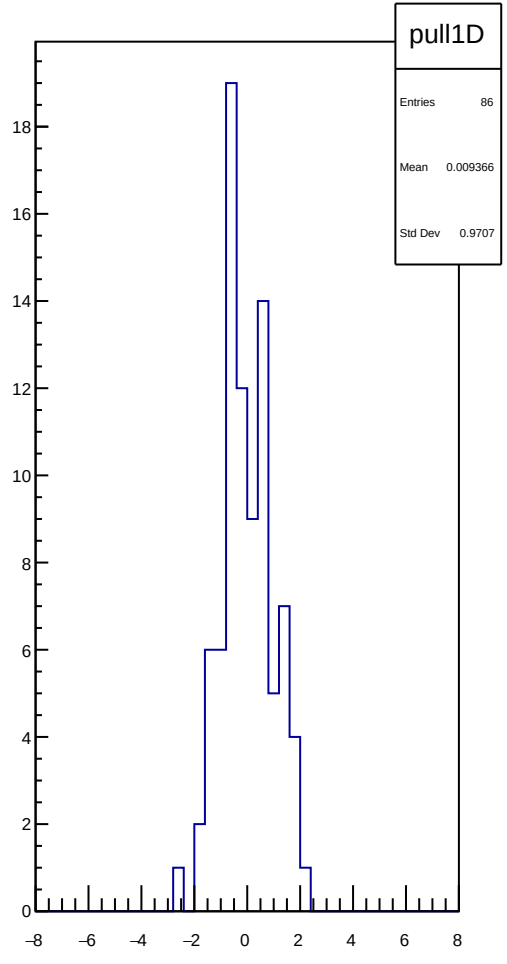

pull1D
Entries 86
Mean 0.009366
Std Dev 0.9707
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

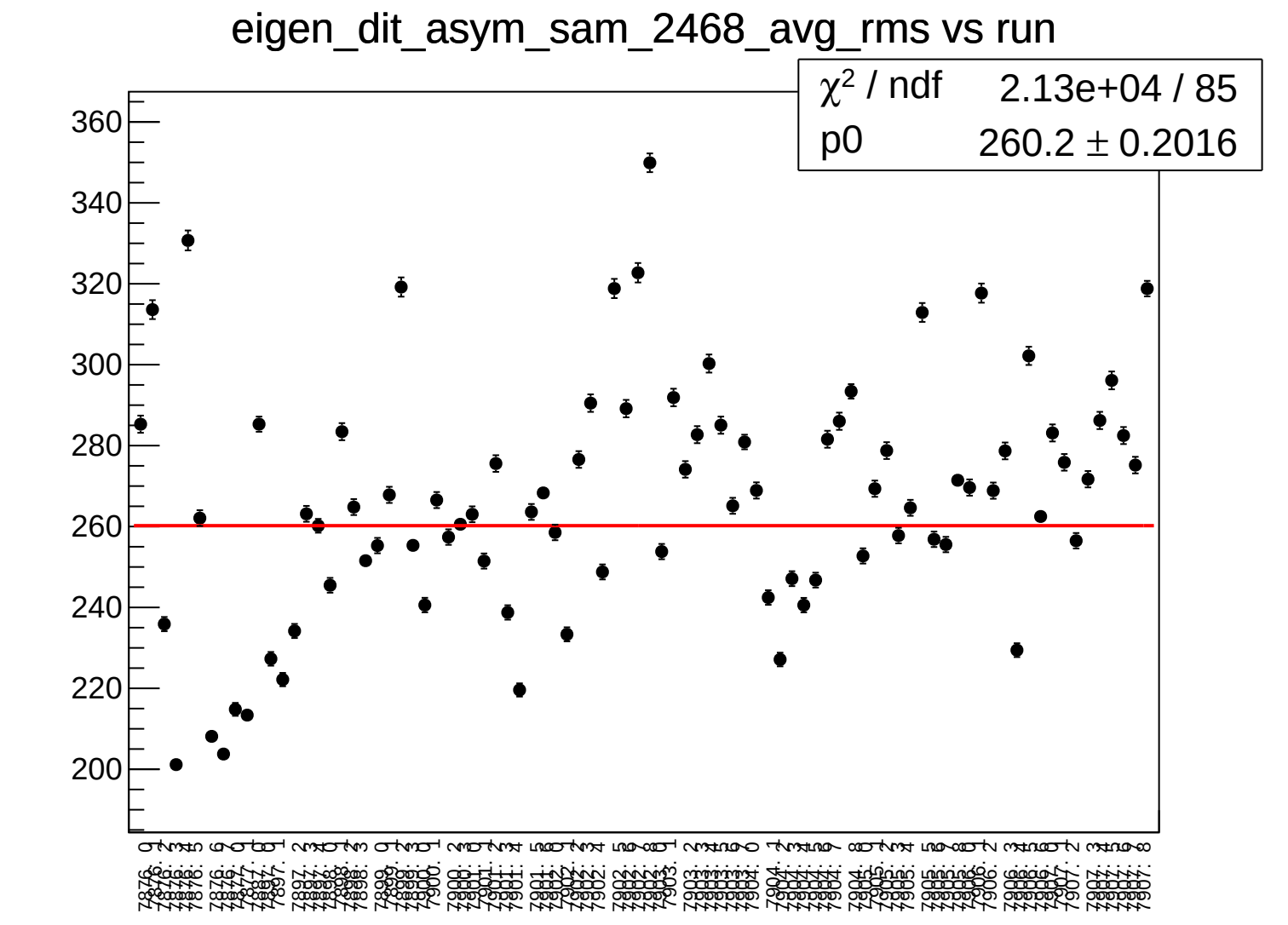

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.13e+04 / 85
p0 260.2 ± 0.2016
360
340
320
300
280
260
240
220
200

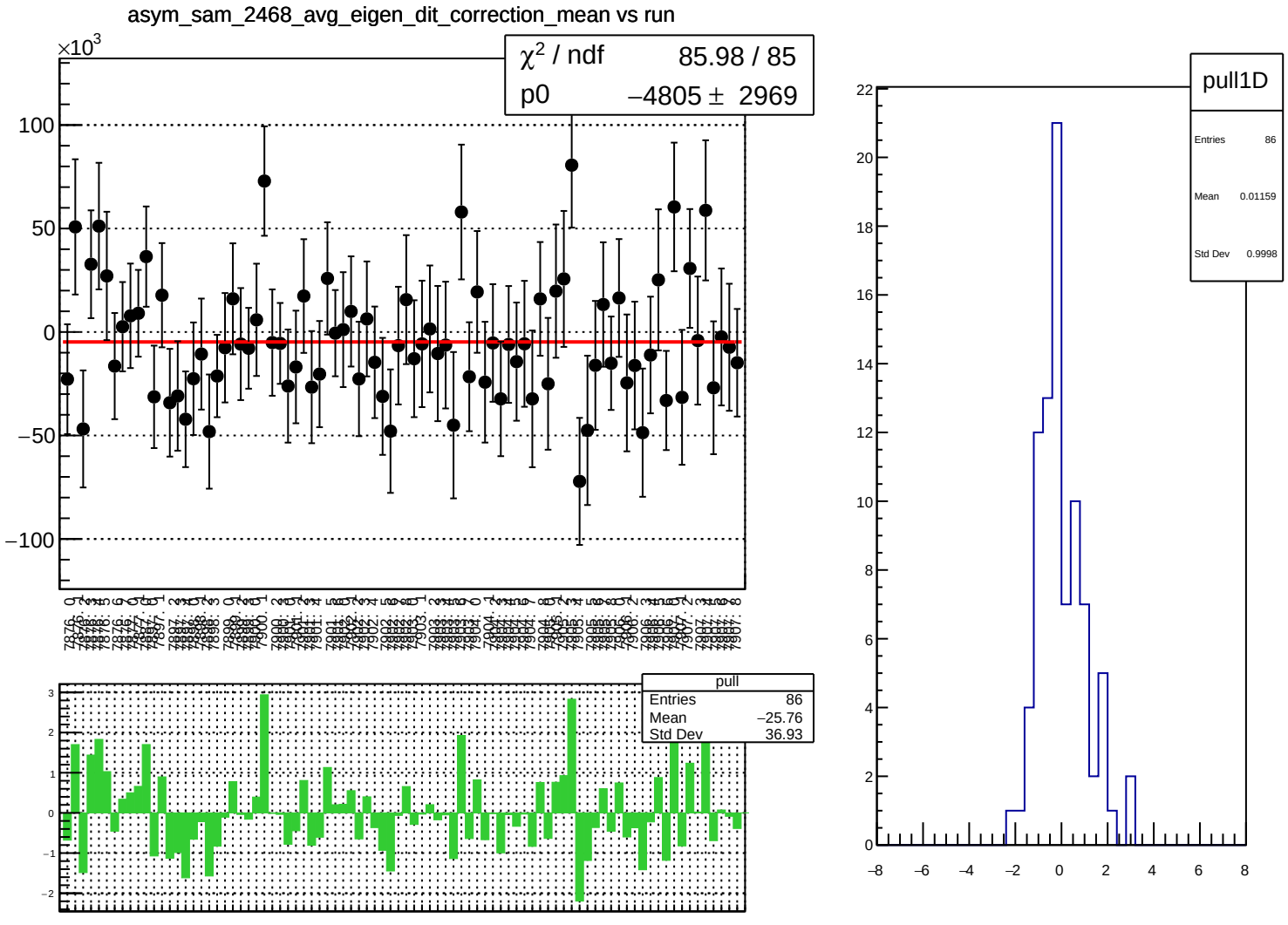

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.98 / 85
p0 −4805 ± 2969
100
50
0
−50
−100
pull
Entries 86
Mean −25.76
Std Dev 36.93
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01159
Std Dev 0.9998
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

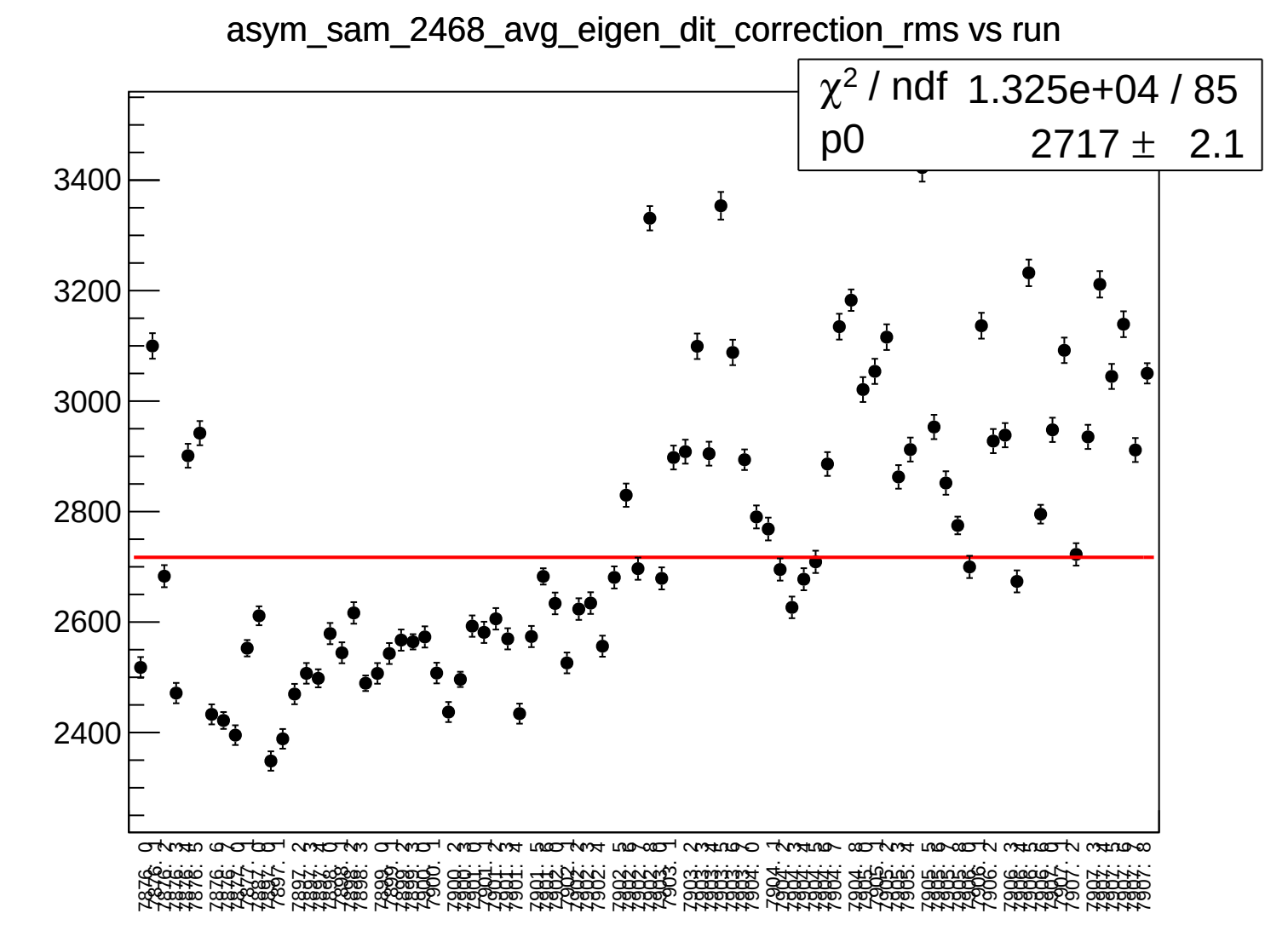

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.325e+04 / 85
p0 2717 ± 2.1
3400
3200
3000
2800
2600
2400

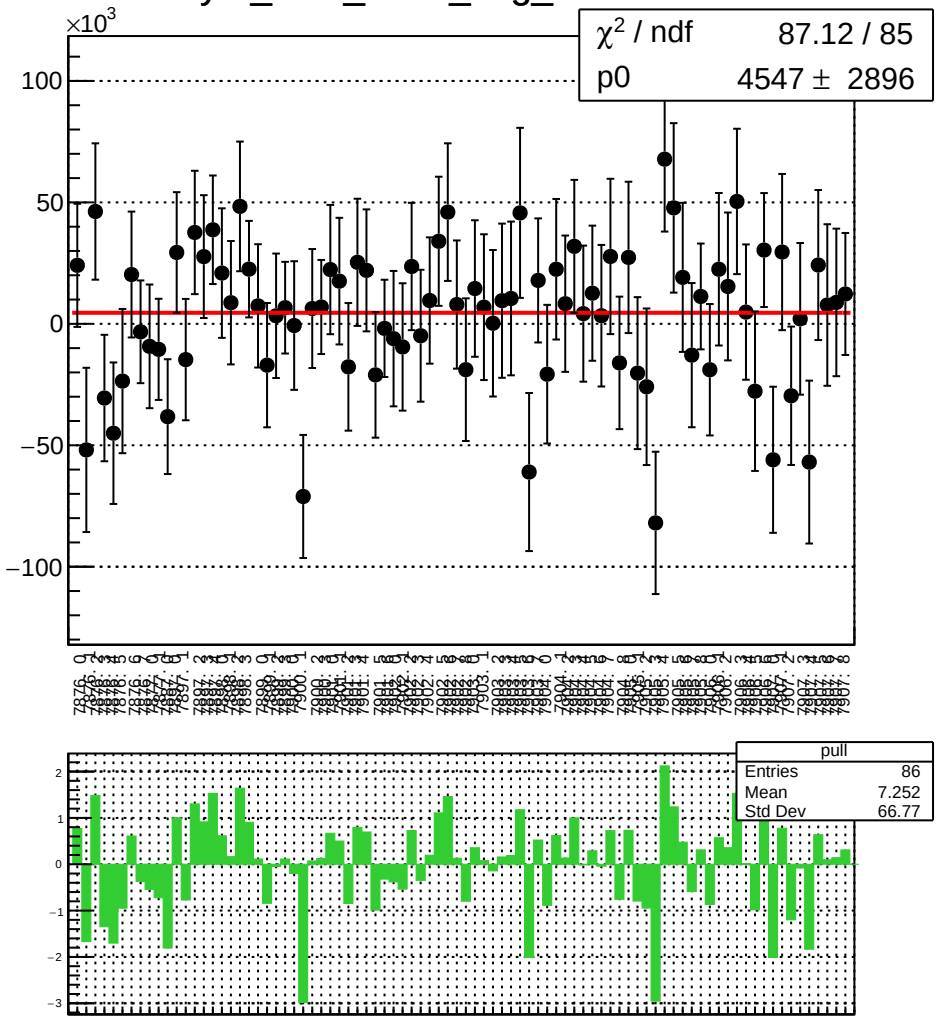

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 81.05 / 85
p0 −312.9 ± 285.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −394.5
Std Dev 0
2
1
0
−1
−2

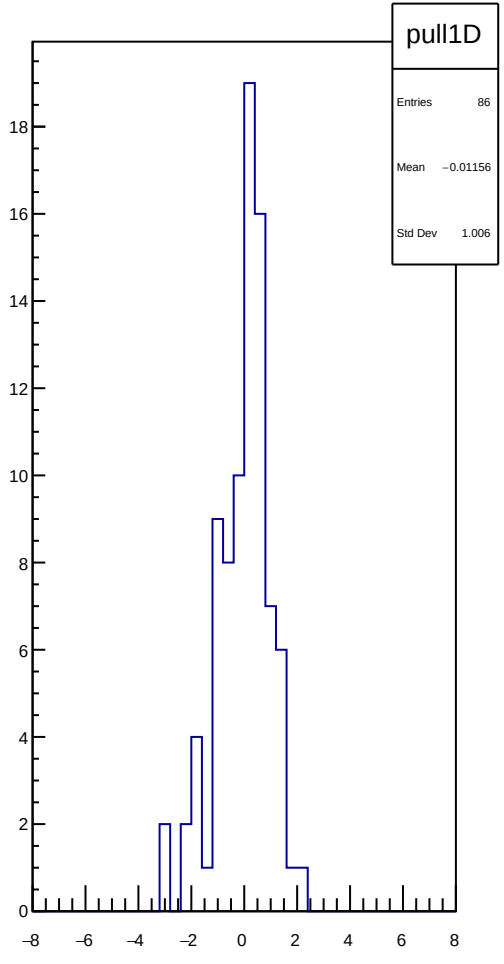

pull1D
Entries 86
Mean 0.009366
Std Dev 0.9707
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

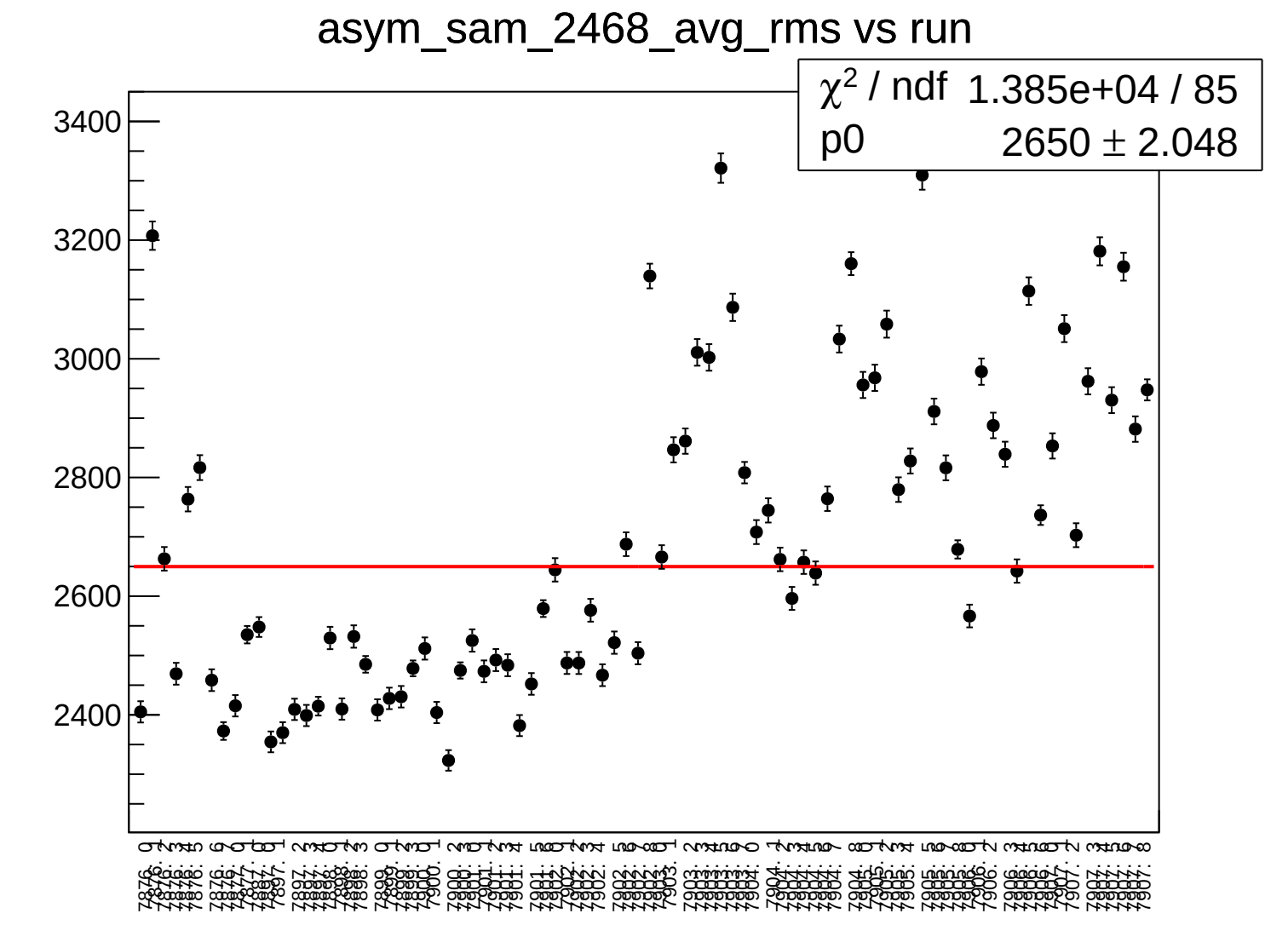

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.13e+04 / 85
p0 260.2 ± 0.2016
360
340
320
300
280
260
240
220
200

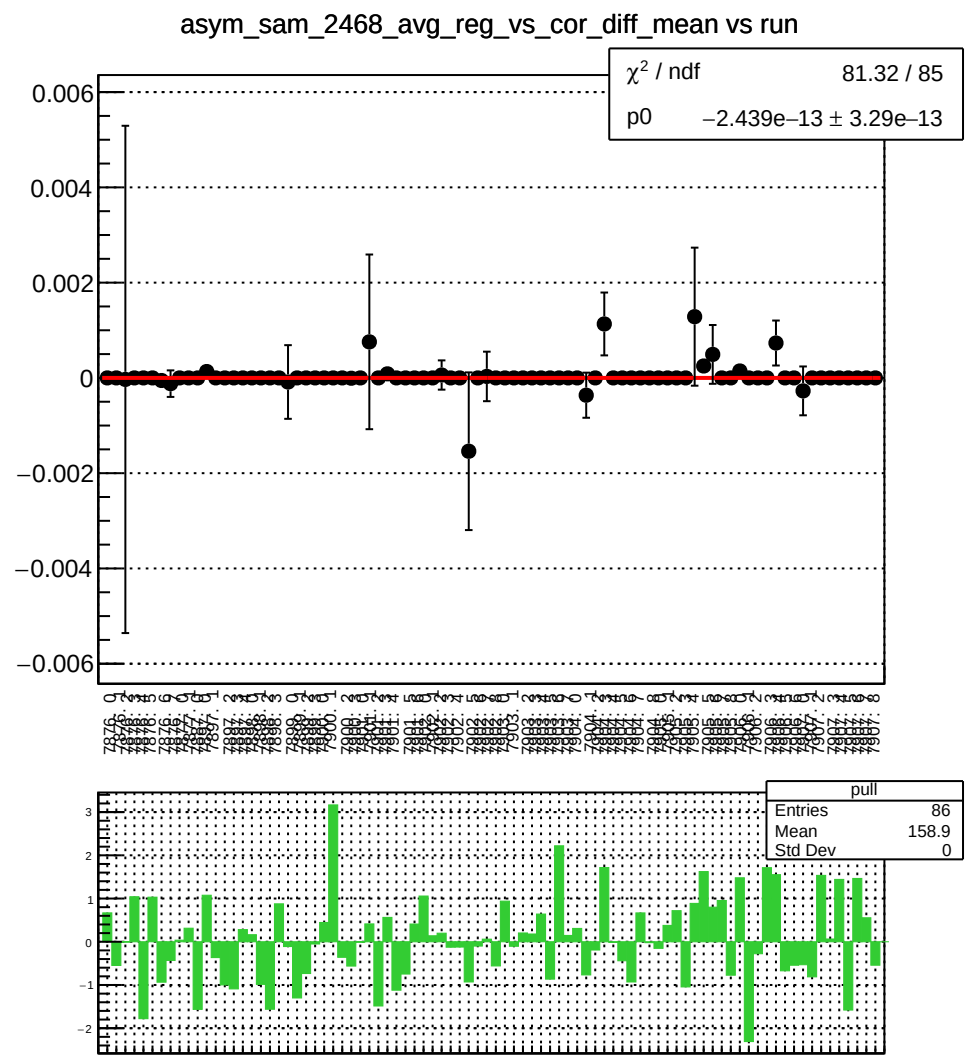

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.98 / 85
p0 −4805 ± 2969
100
50
0
−50
−100
pull
Entries 86
Mean −25.76
Std Dev 36.93
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01159
Std Dev 0.9998
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

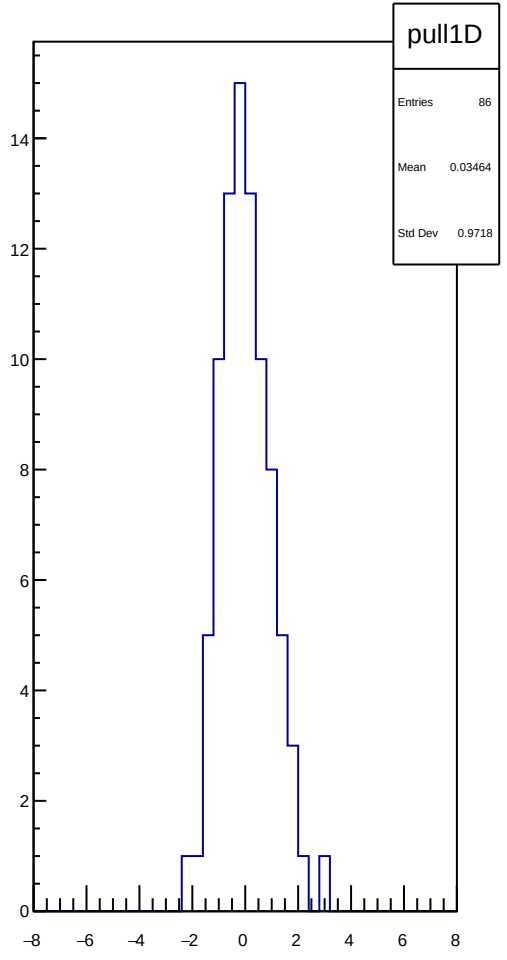

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.325e+04 / 85
p0 2717 ± 2.1
3400
3200
3000
2800
2600
2400

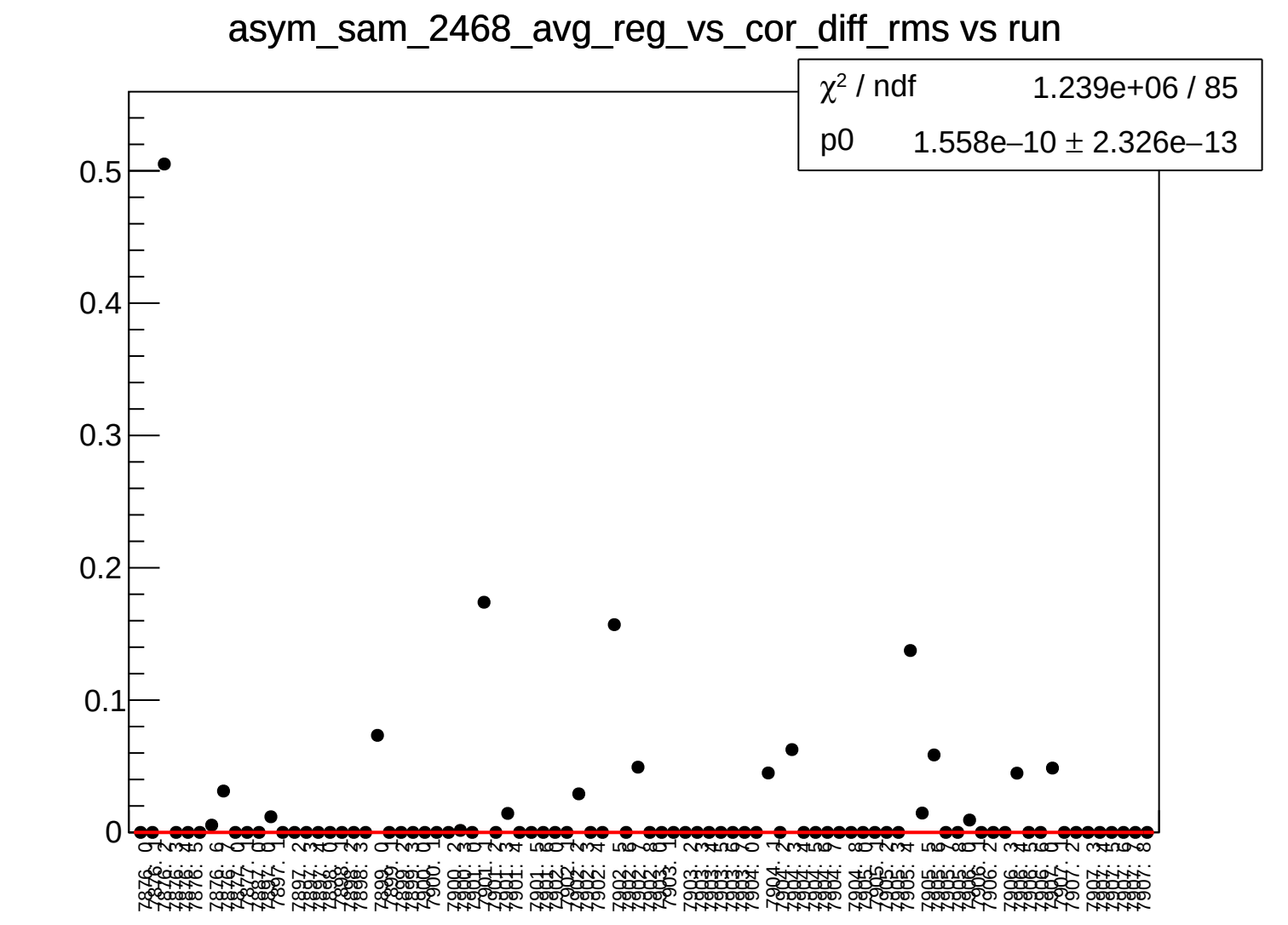

asym_sam_2468_avg_mean vs run
×10^3
χ^2 / ndf 87.12 / 85
p0 4547 ± 2896
100
50
0
−50
−100
pull
Entries 86
Mean 7.252
Std Dev 66.77
2
1
0
−1
−2
−3

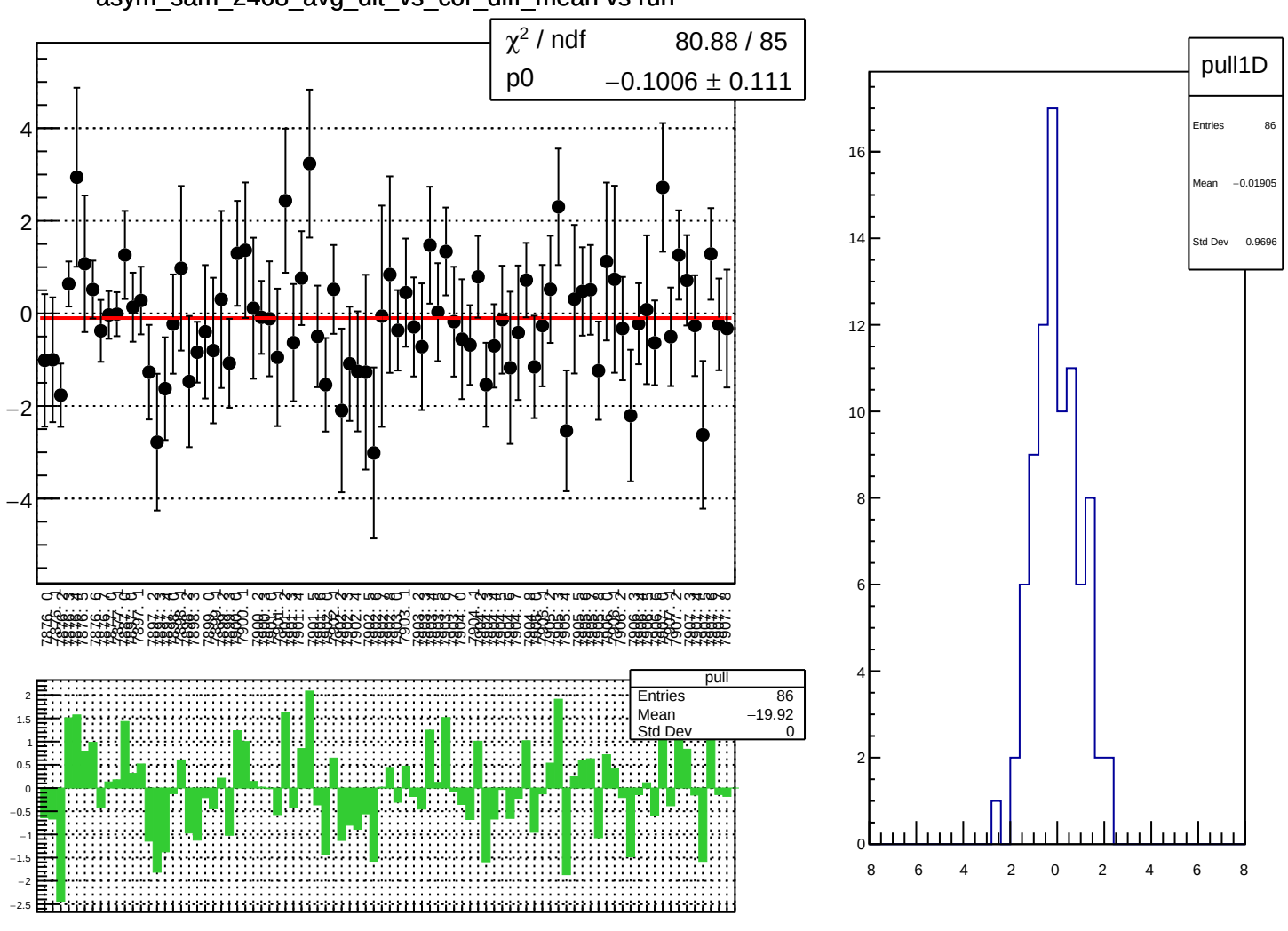

pull1D
Entries 86
Mean −0.01156
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

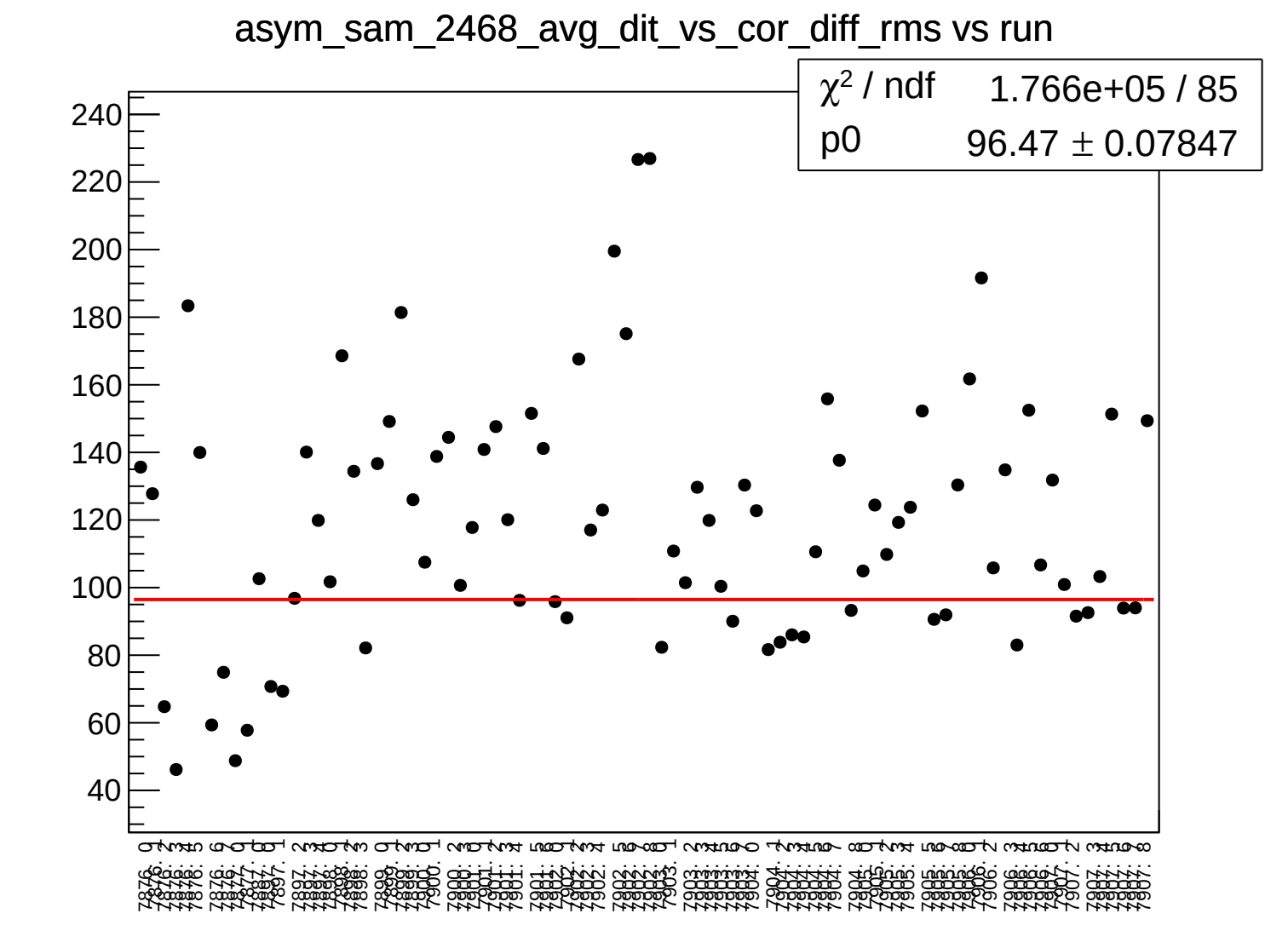

asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.385e+04 / 85
p0 2650 ± 2.048
3400
3200
3000
2800
2600
2400

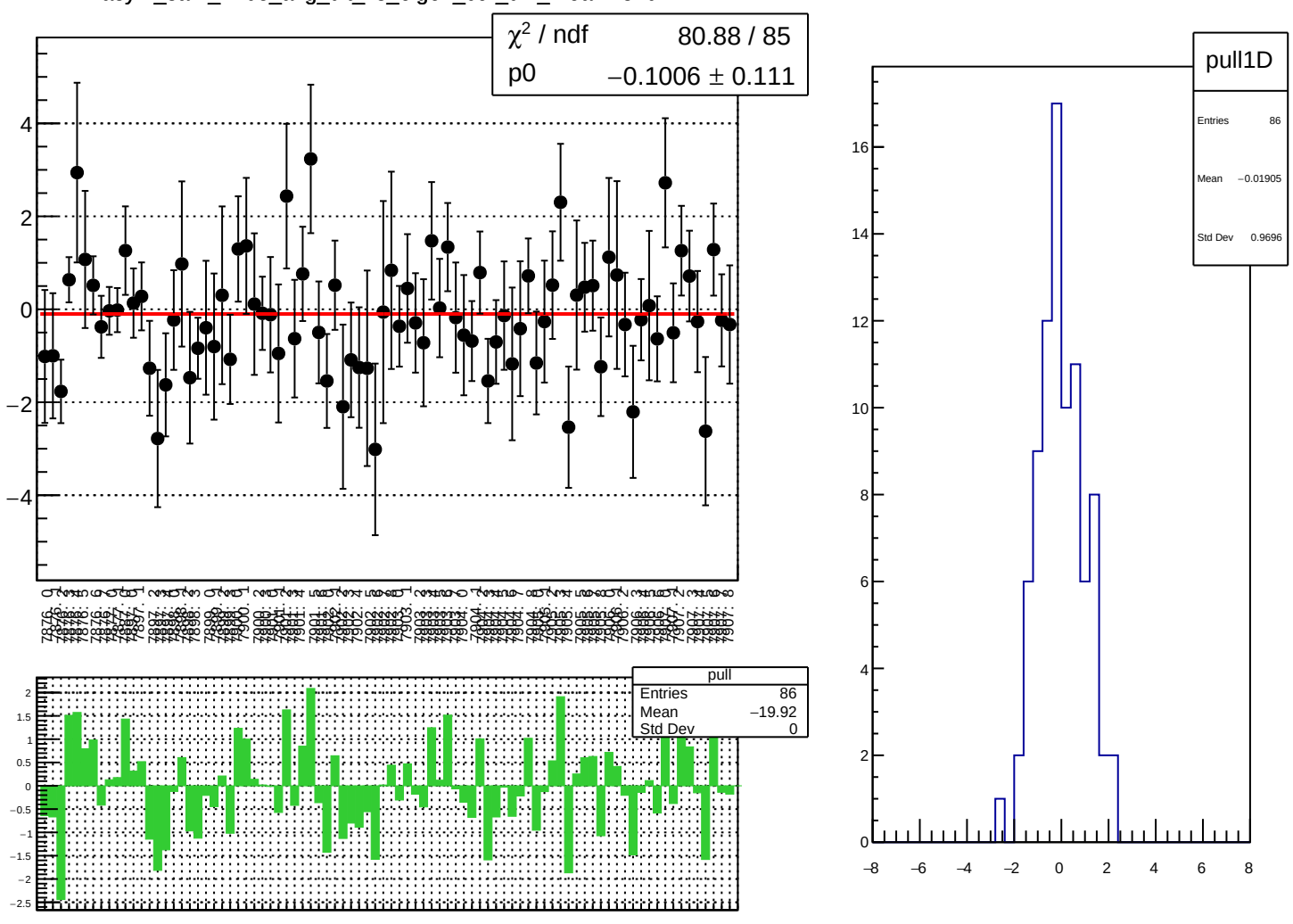

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.32 / 85
p0 −2.439e−13 ± 3.29e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 86
Mean 158.9
Std Dev 0
3
2
1
0
−1
−2

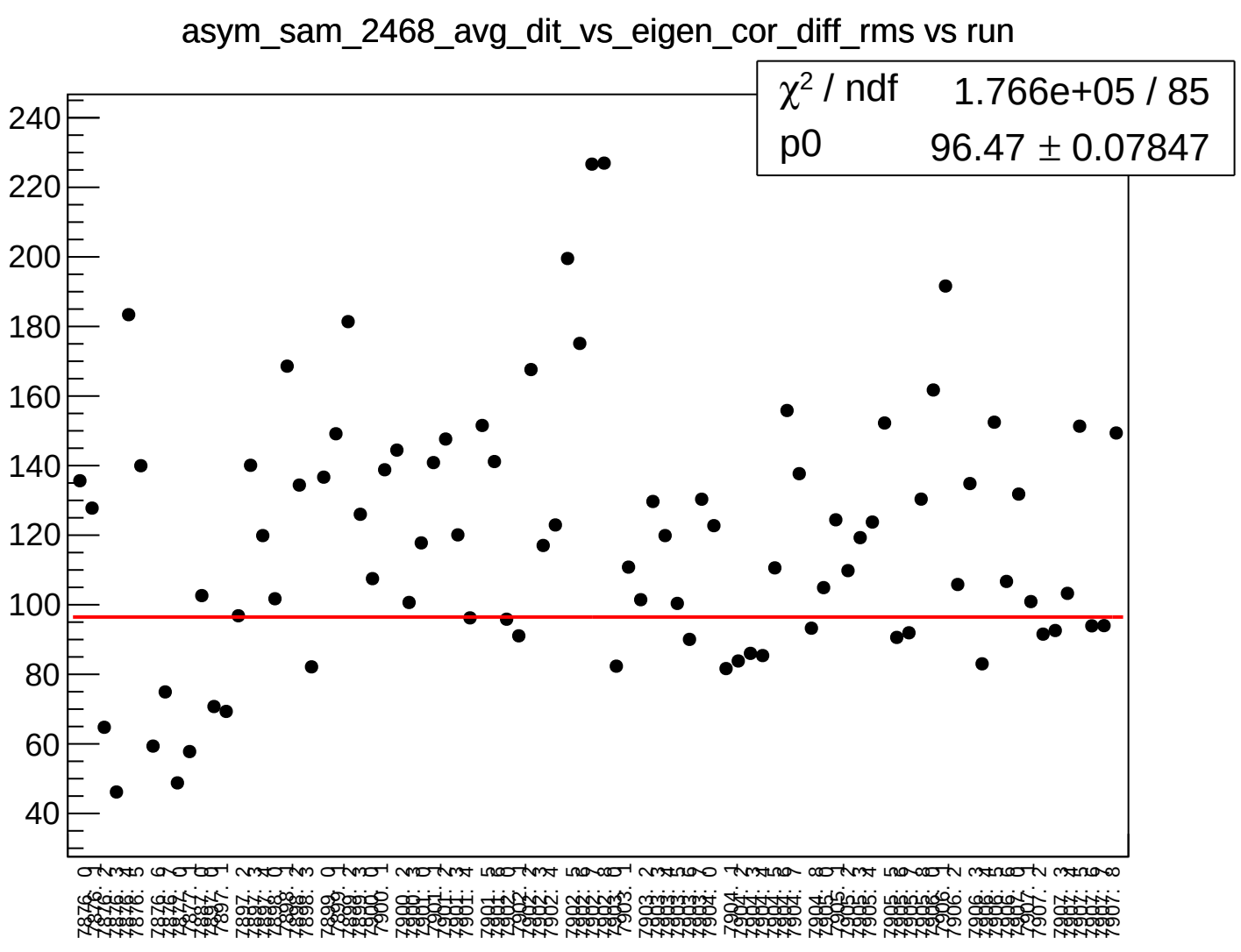

pull1D
Entries 86
Mean 0.03464
Std Dev 0.9718
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

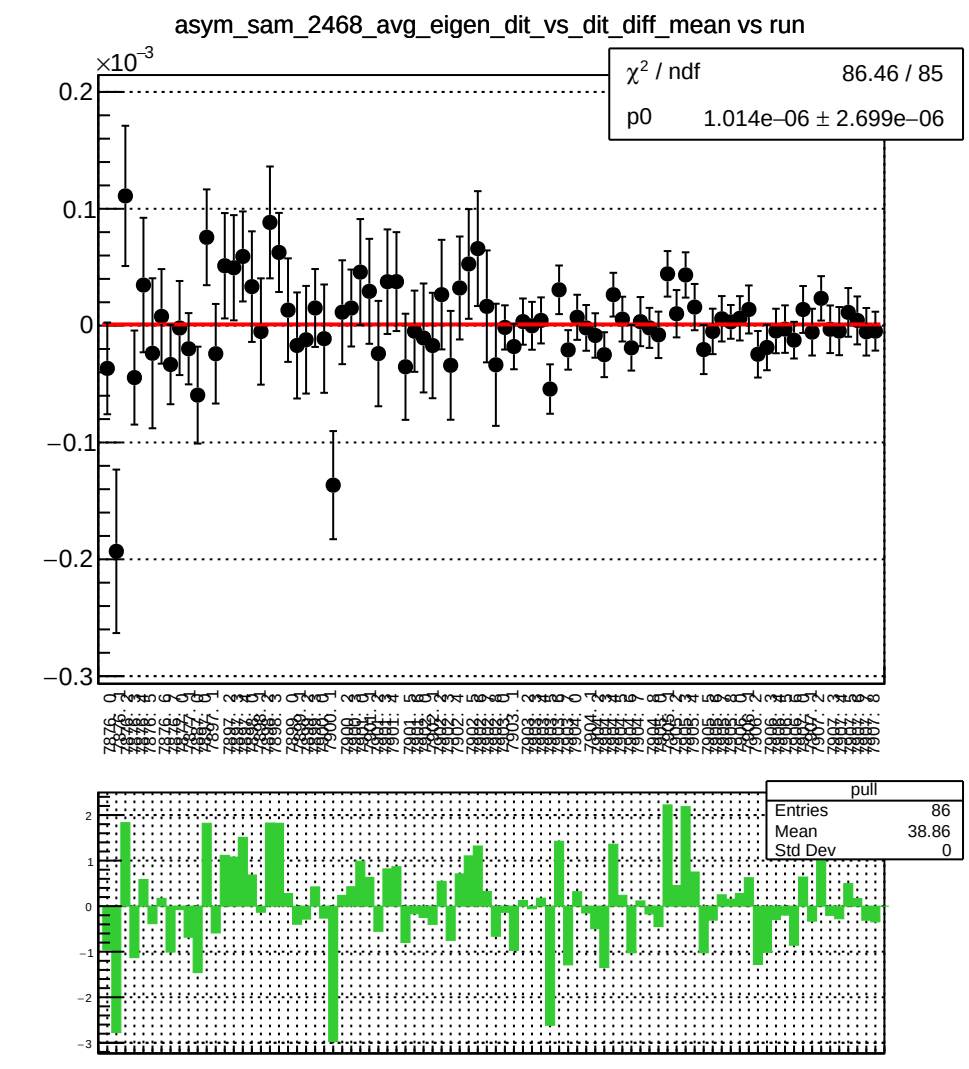

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.239e+06 / 85
p0 1.558e−10 ± 2.326e−13
0.5
0.4
0.3
0.2
0.1
0

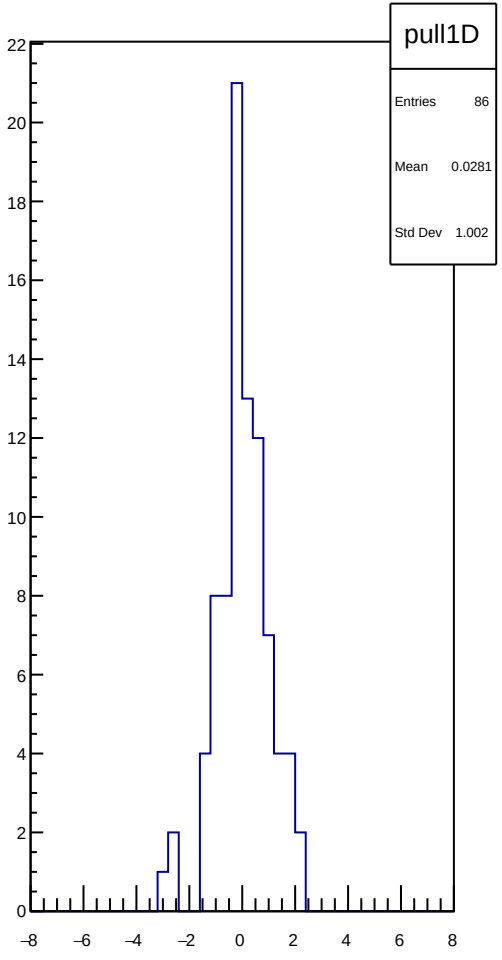

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.88 / 85
p0 −0.1006 ± 0.111
pull
Entries 86
Mean −19.92
Std Dev 0
pull1D
Entries 86
Mean −0.01905
Std Dev 0.9696

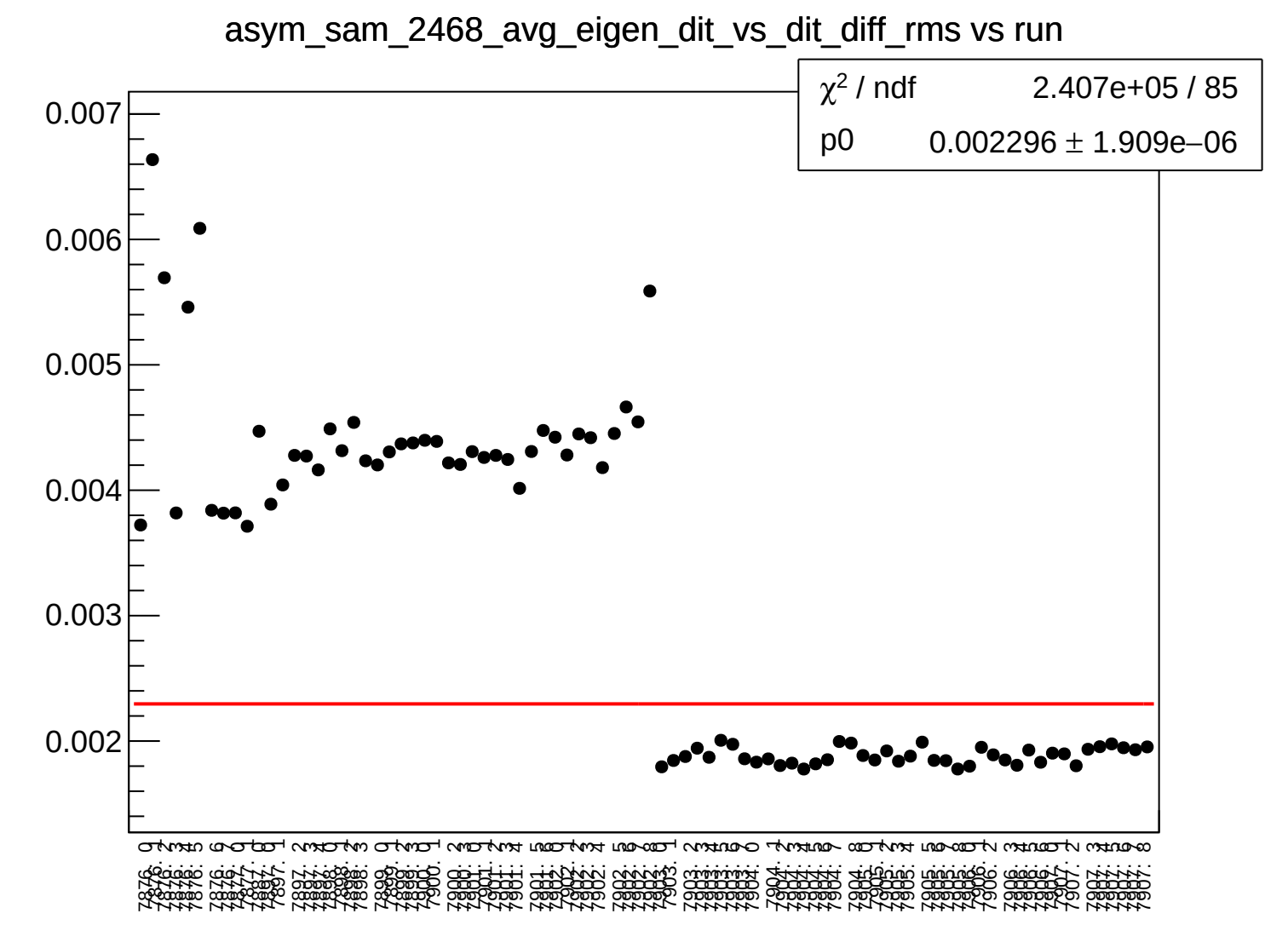

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 85
p0 96.47 ± 0.07847
240
220
200
180
160
140
120
100
80
60
40

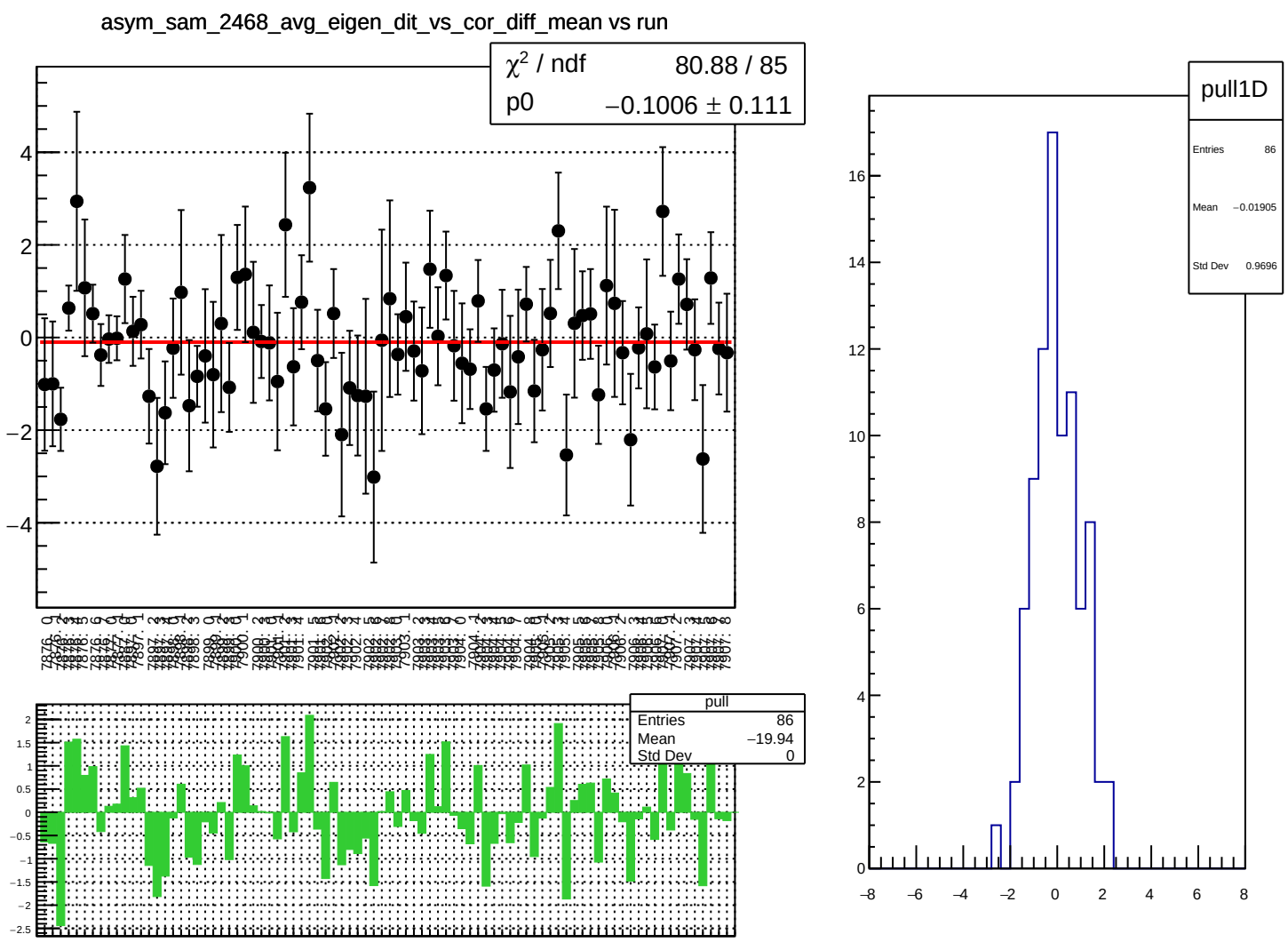

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.88 / 85
p0 −0.1006 ± 0.111
pull
Entries 86
Mean −19.92
Std Dev 0
pull1D
Entries 86
Mean −0.01905
Std Dev 0.9696

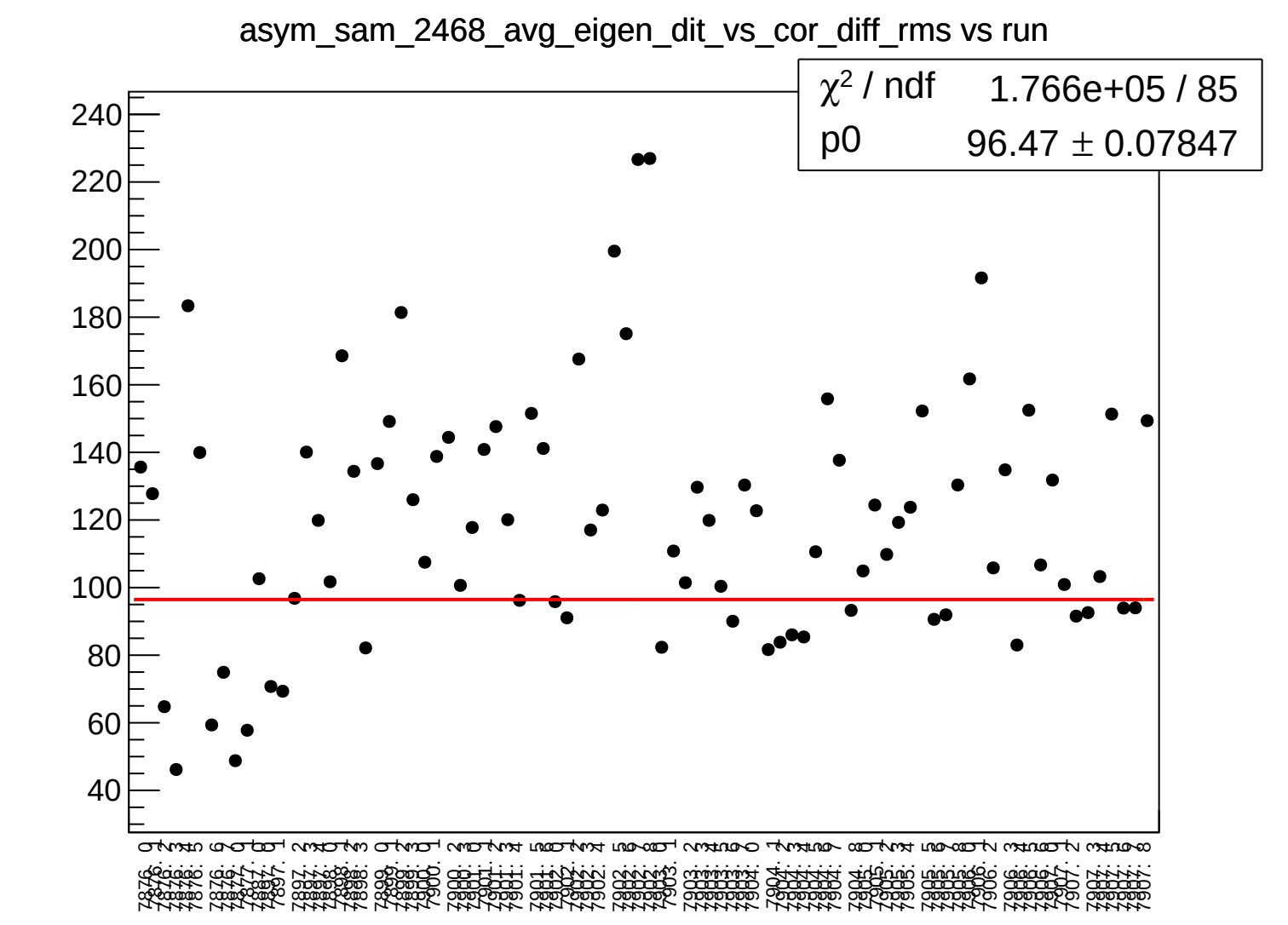

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.766e+05 / 85
p0 96.47 ± 0.07847
240
220
200
180
160
140
120
100
80
60
40

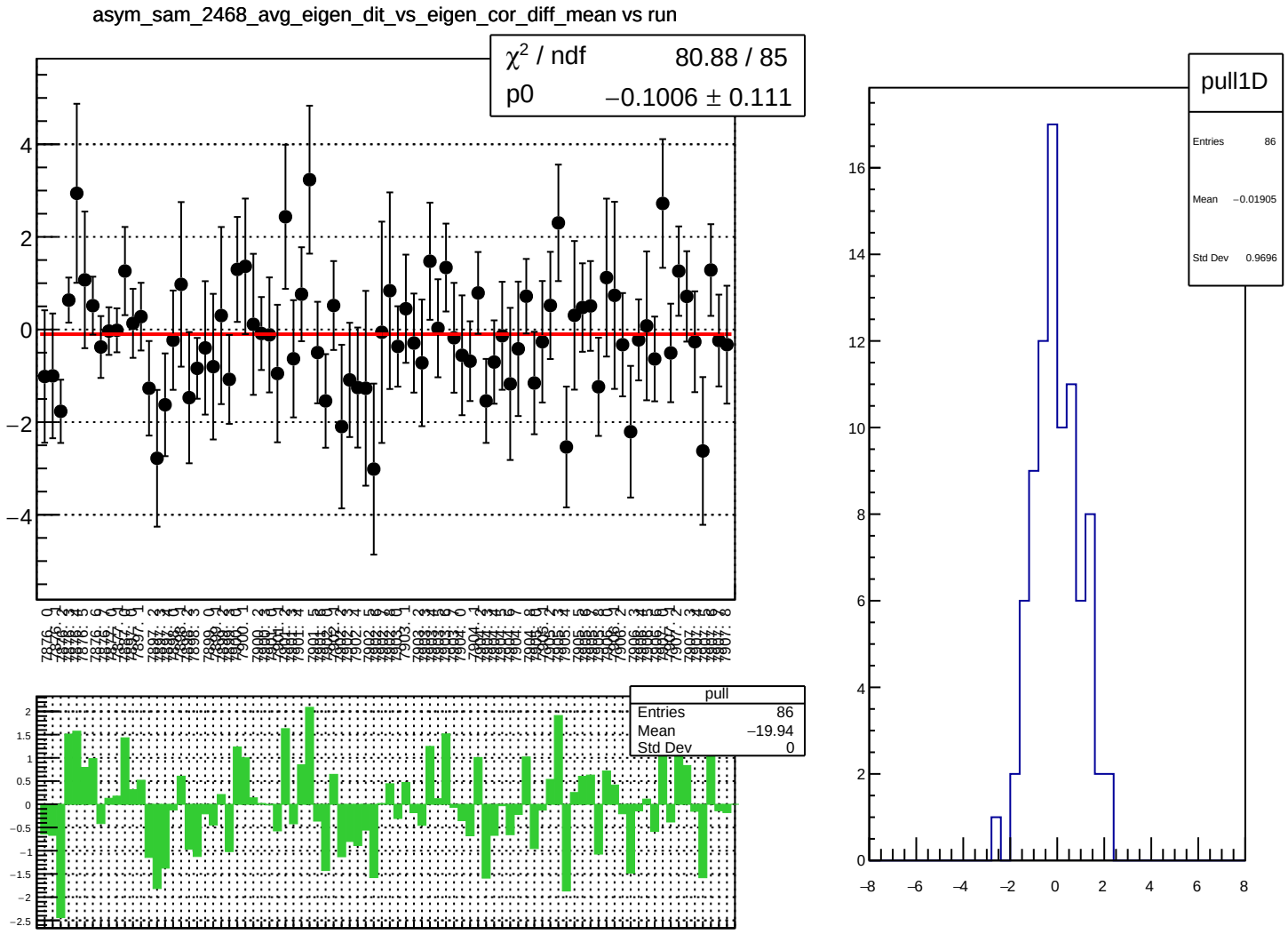

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.46 / 85
p0 1.014e−06 ± 2.699e−06
pull
Entries 86
Mean 38.86
Std Dev 0

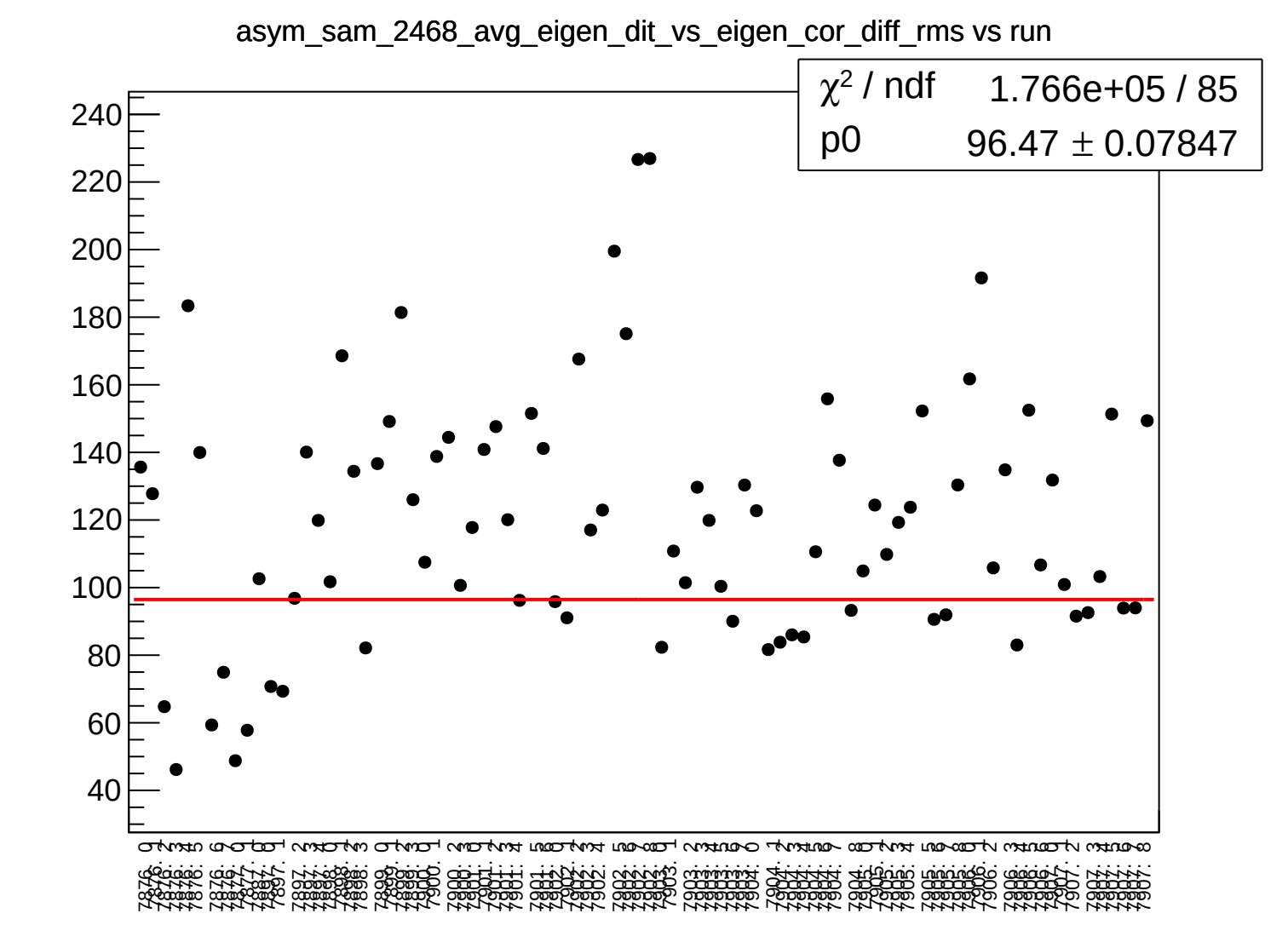

pull1D
Entries 86
Mean 0.0281
Std Dev 1.002

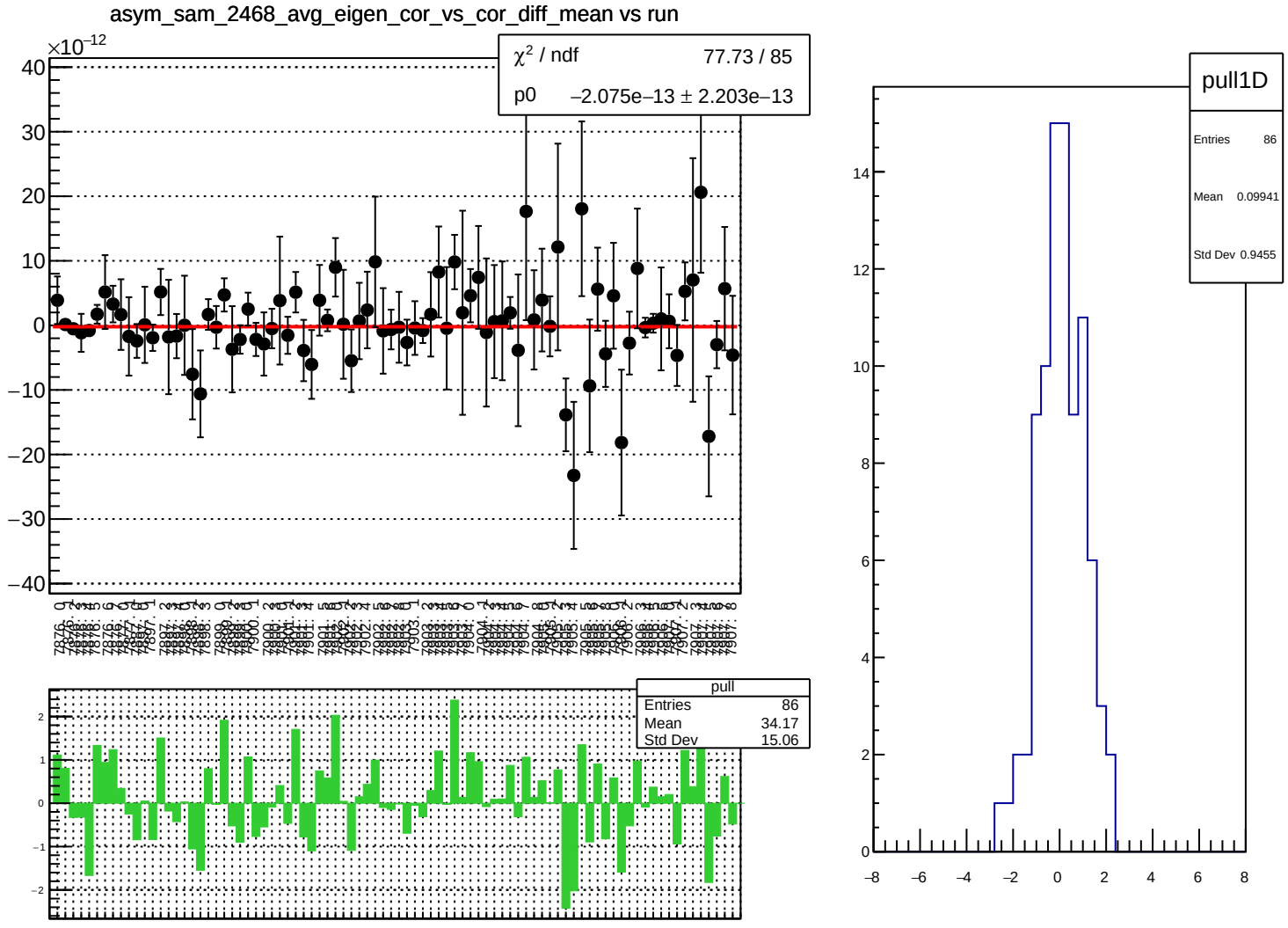

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.407e+05 / 85
p0 0.002296 ± 1.909e−06
0.007
0.006
0.005
0.004
0.003
0.002

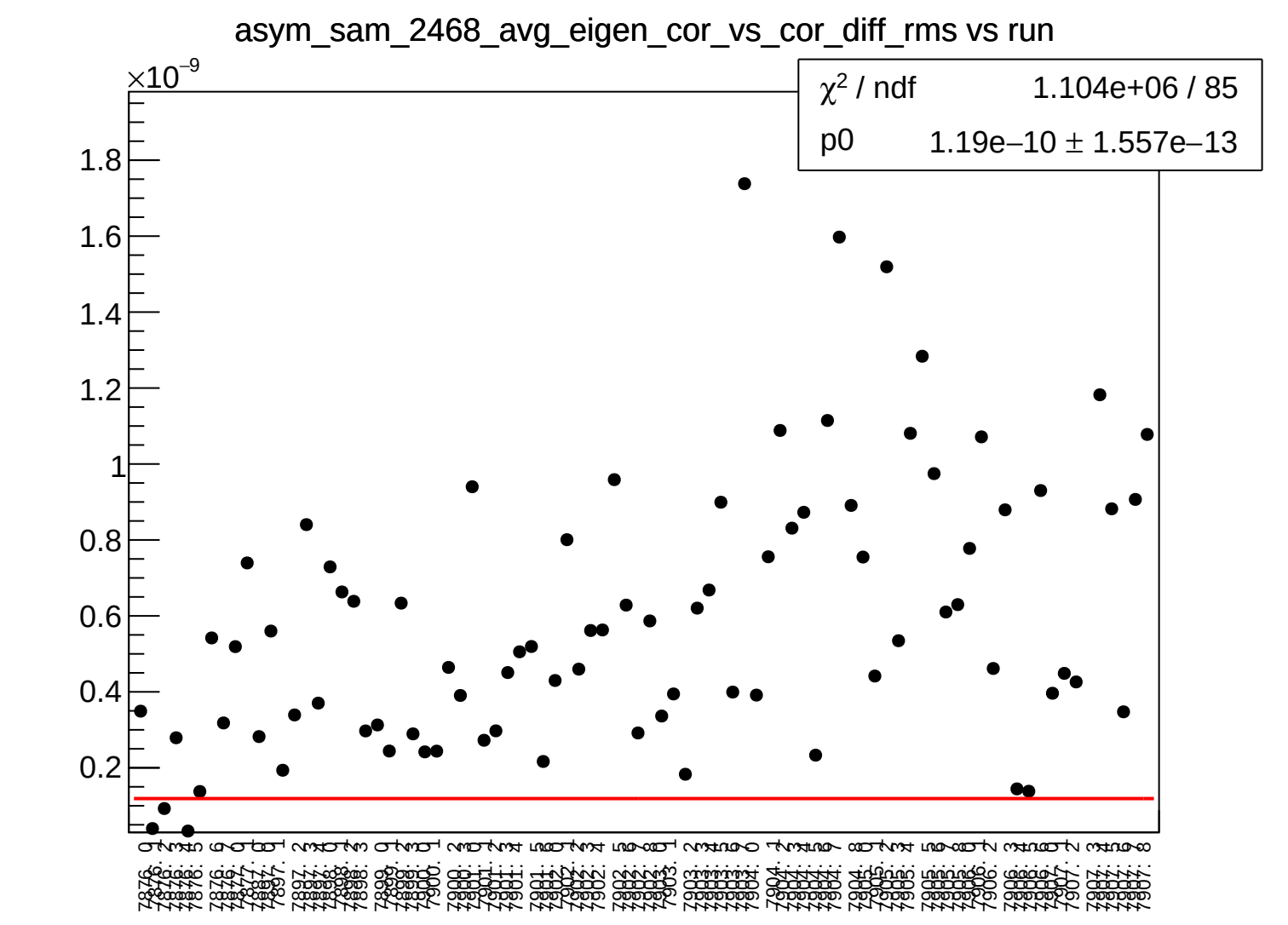

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.88 / 85
p0 −0.1006 ± 0.111
pull
Entries 86
Mean −19.94
Std Dev 0
pull1D
Entries 86
Mean −0.01905
Std Dev 0.9696

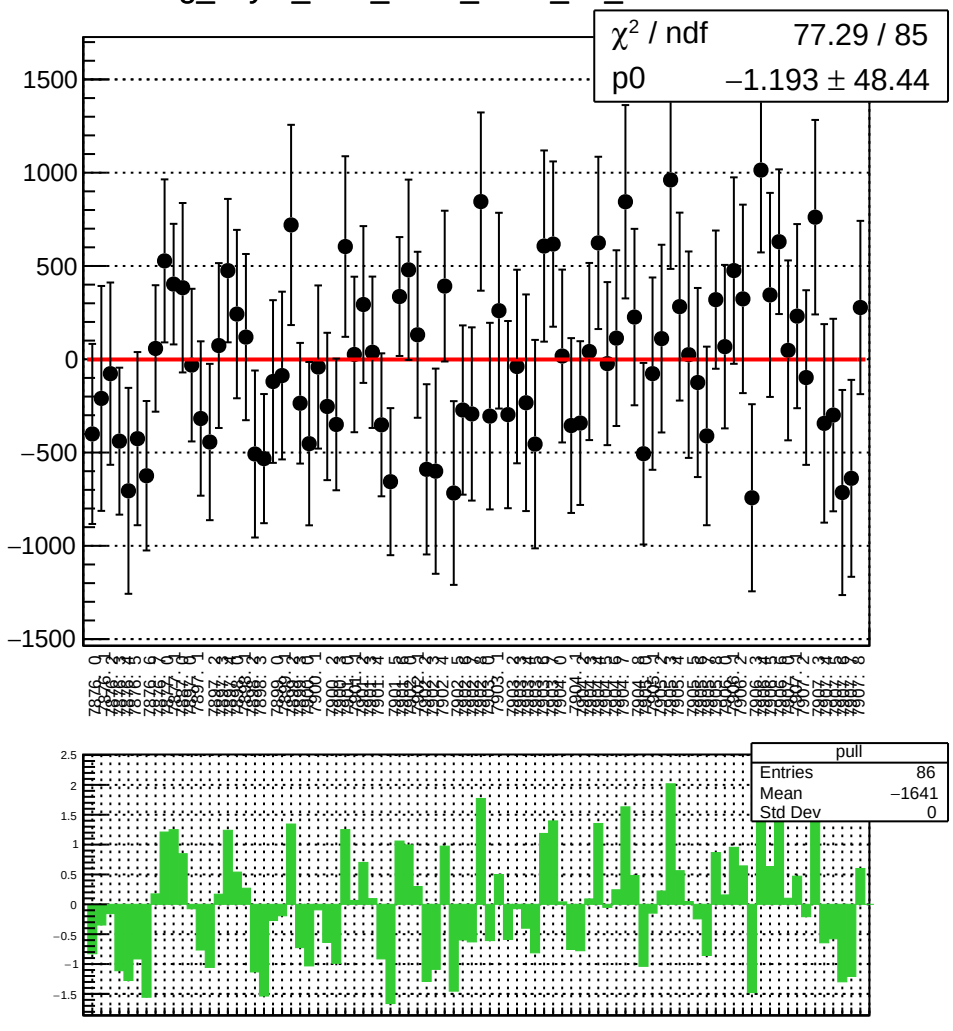

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 85
p0 96.47 ± 0.07847
240
220
200
180
160
140
120
100
80
60
40

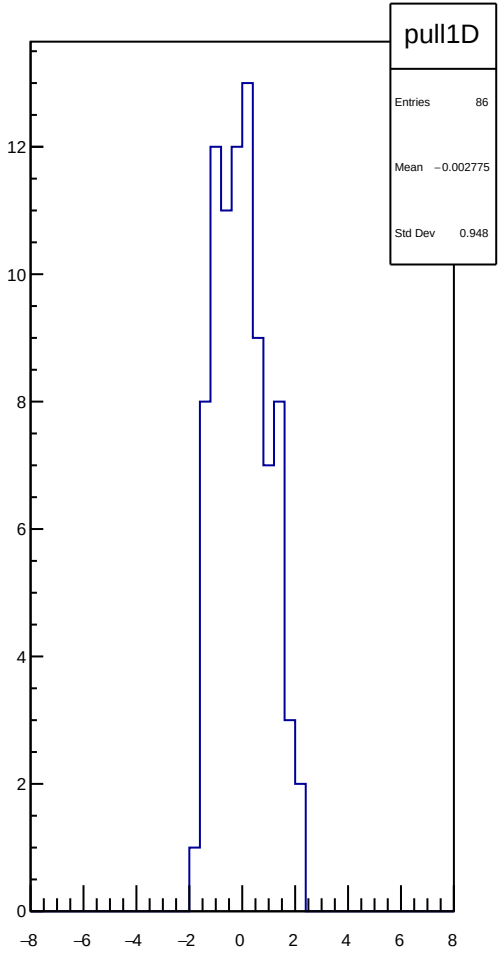

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.88 / 85
p0 −0.1006 ± 0.111
pull
Entries 86
Mean −19.94
Std Dev 0
pull1D
Entries 86
Mean −0.01905
Std Dev 0.9696

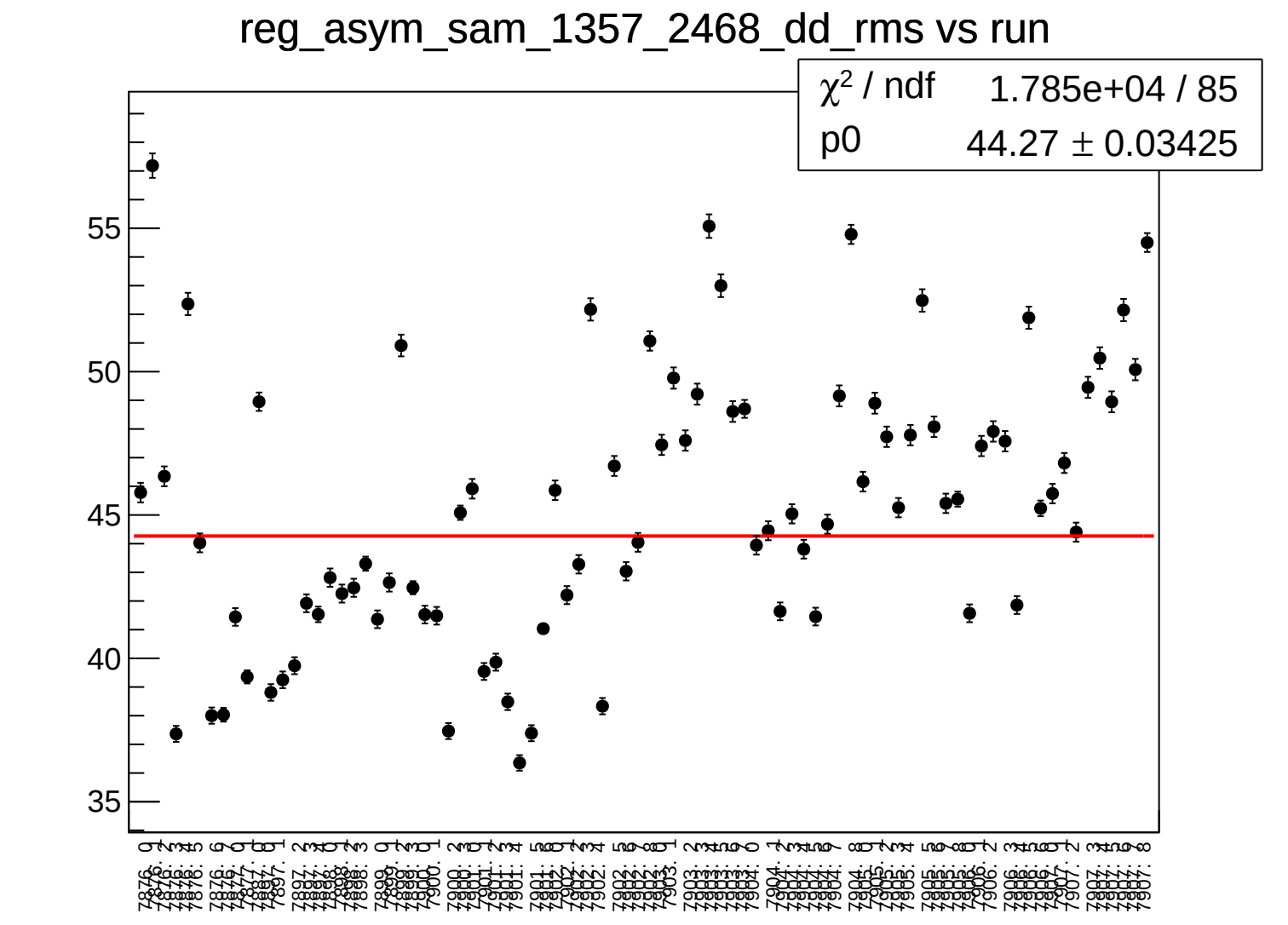

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 85
p0 96.47 ± 0.07847
240
220
200
180
160
140
120
100
80
60
40

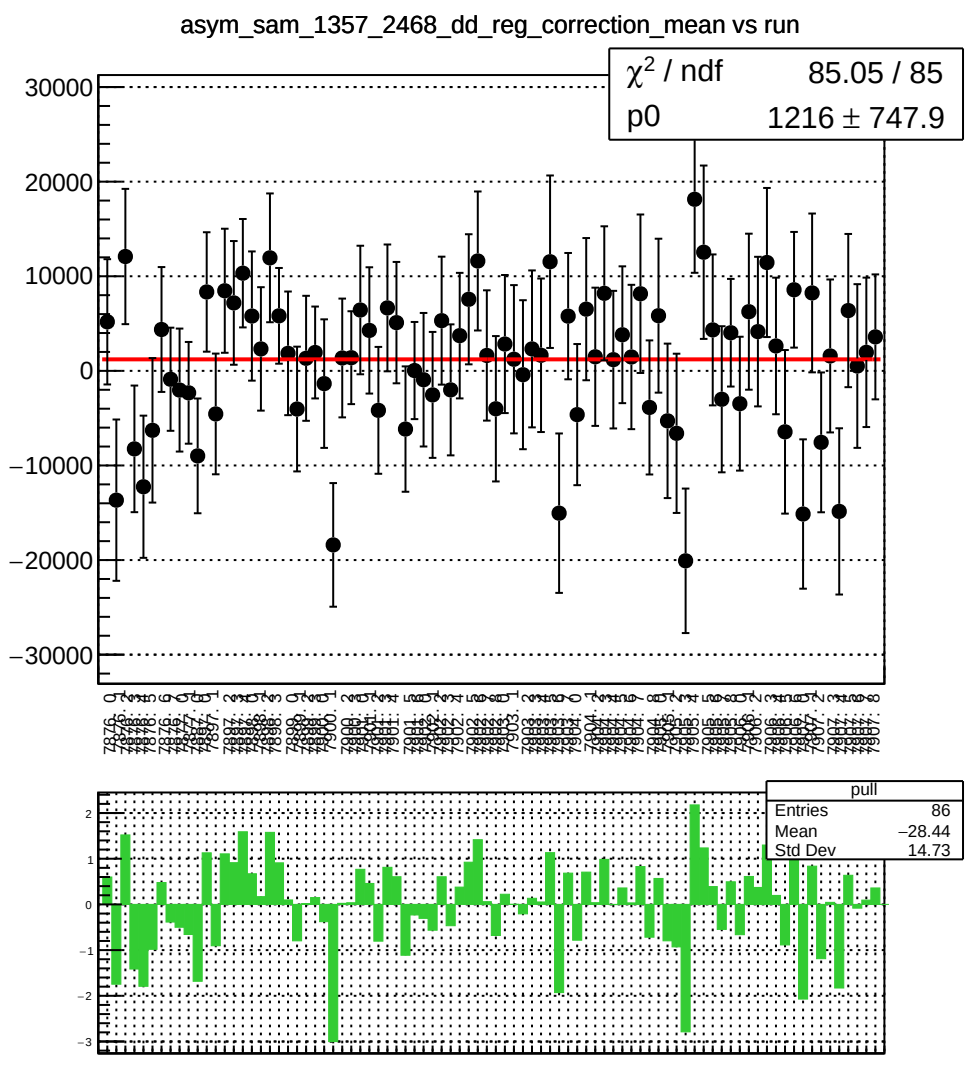

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 77.73 / 85
p0 −2.075e−13 ± 2.203e−13
pull
Entries 86
Mean 34.17
Std Dev 15.06
pull1D
Entries 86
Mean 0.09941
Std Dev 0.9455

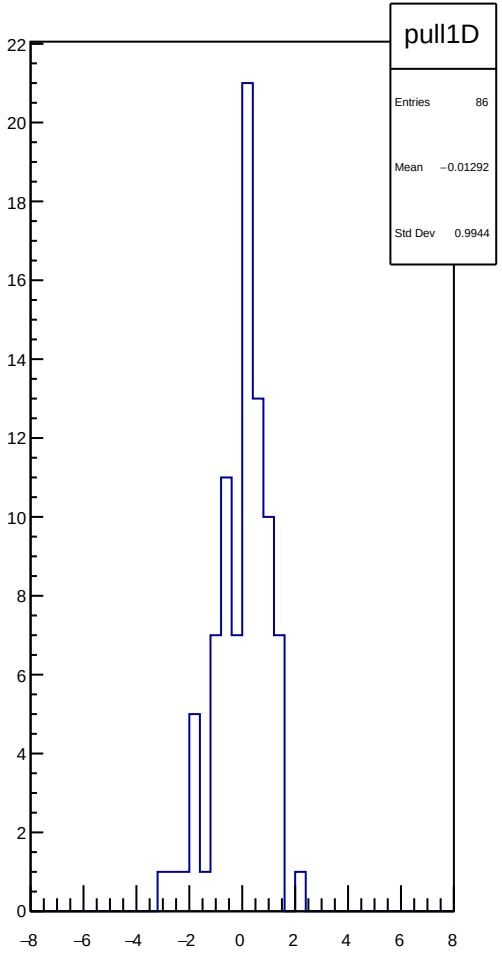

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.104e+06 / 85
p0 1.19e−10 ± 1.557e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

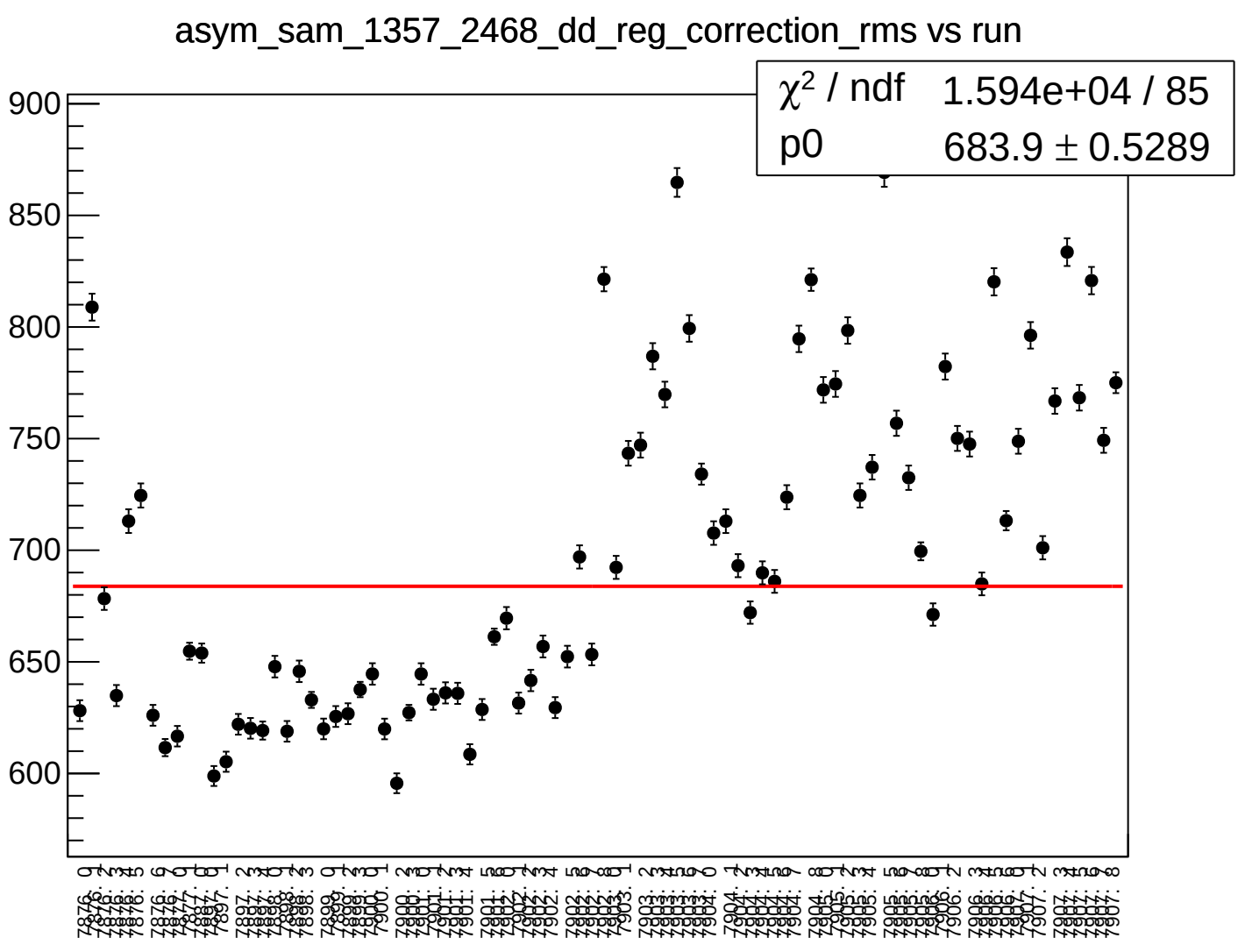

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 77.29 / 85
p0 −1.193 ± 48.44
pull
Entries 86
Mean −1641
Std Dev 0

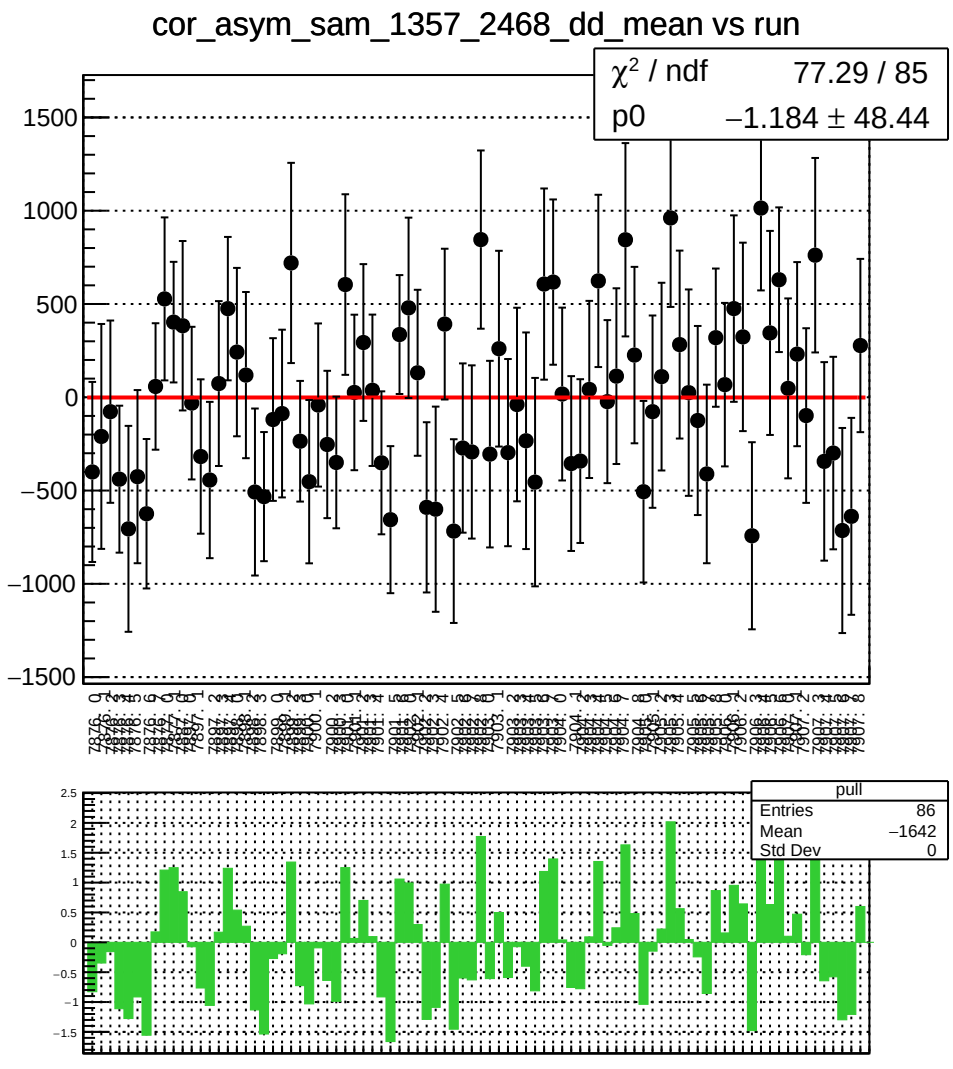

pull1D
Entries 86
Mean −0.002775
Std Dev 0.948

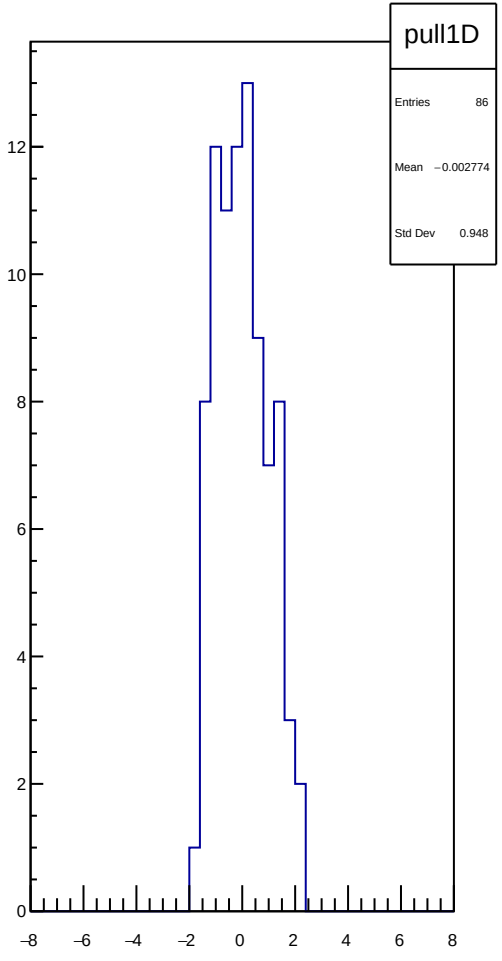

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.785e+04 / 85
p0 44.27 ± 0.03425
55
50
45
40
35

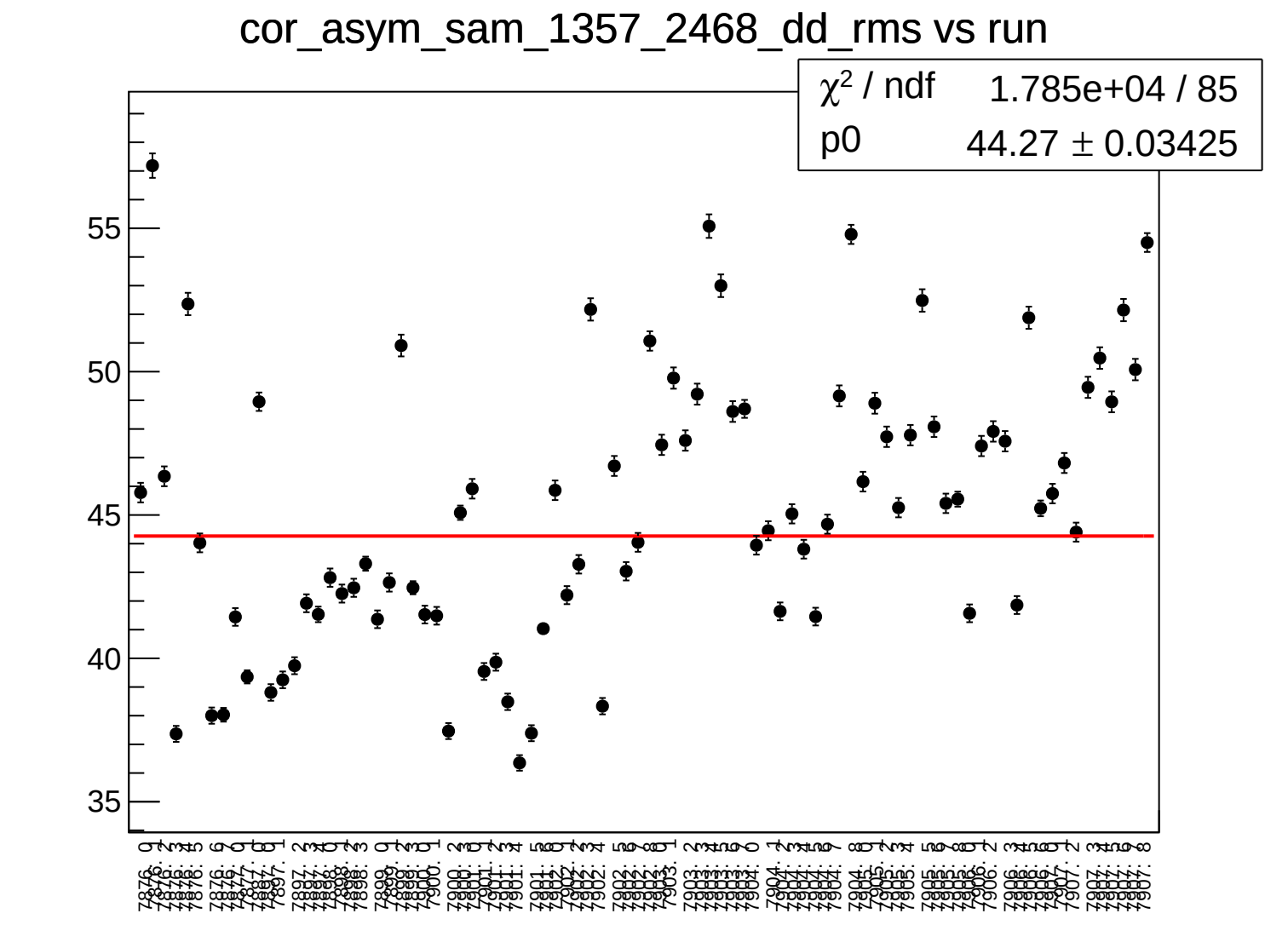

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 85.05 / 85
p0 1216 ± 747.9
pull
Entries 86
Mean −28.44
Std Dev 14.73

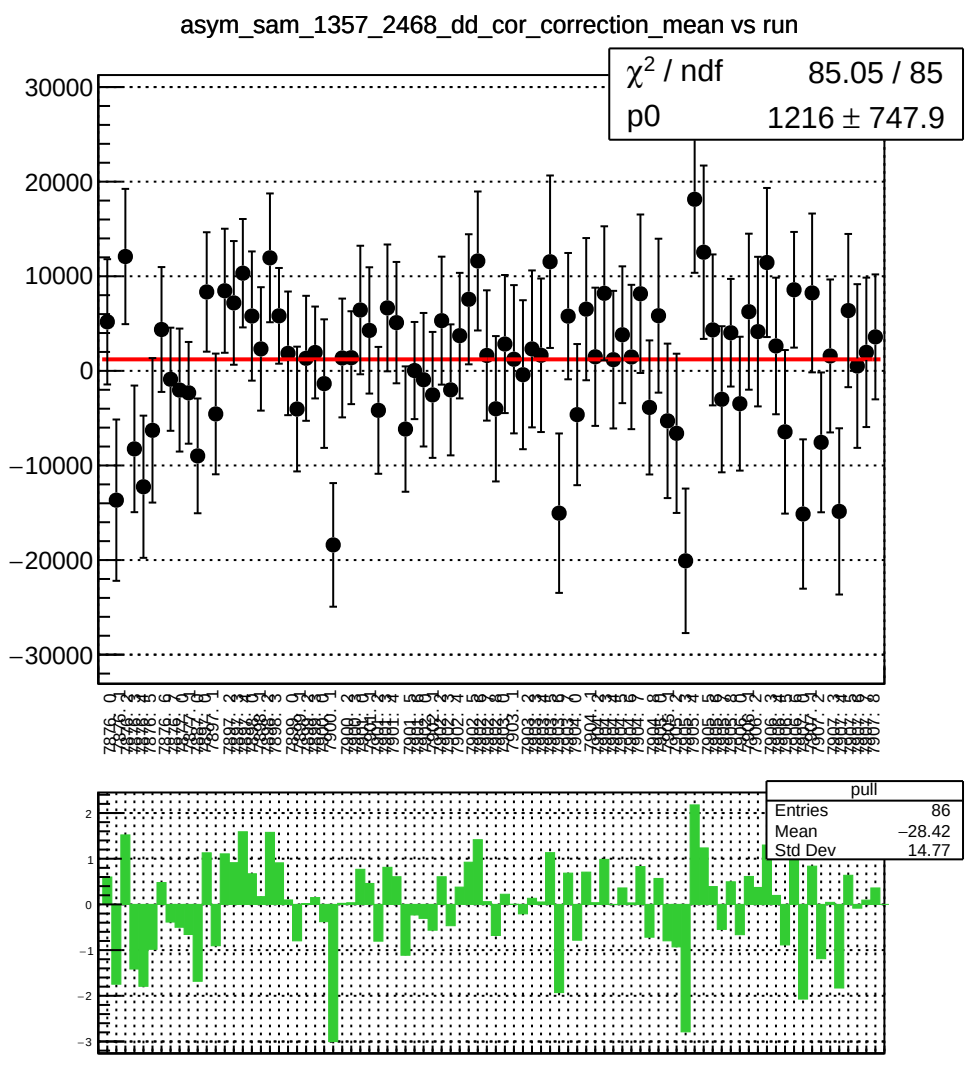

pull1D
Entries 86
Mean −0.01292
Std Dev 0.9944

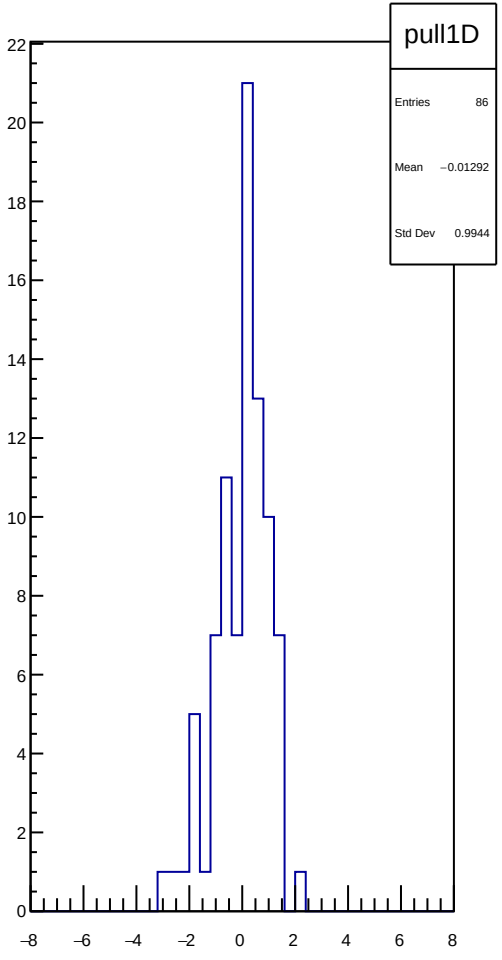

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.594e+04 / 85
p0 683.9 ± 0.5289
900
850
800
750
700
650
600

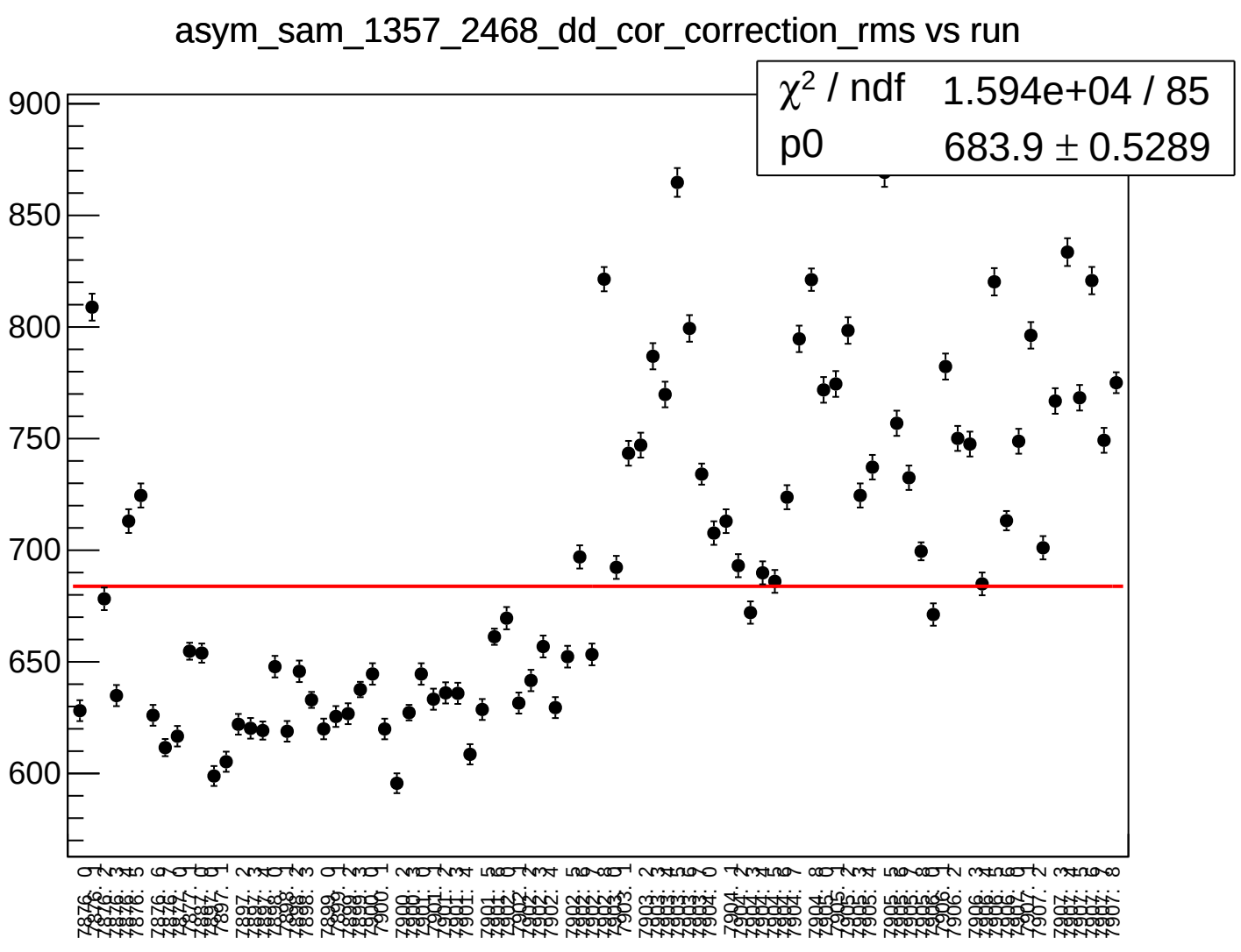

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 77.29 / 85
p0 −1.184 ± 48.44
1500
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean −1642
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

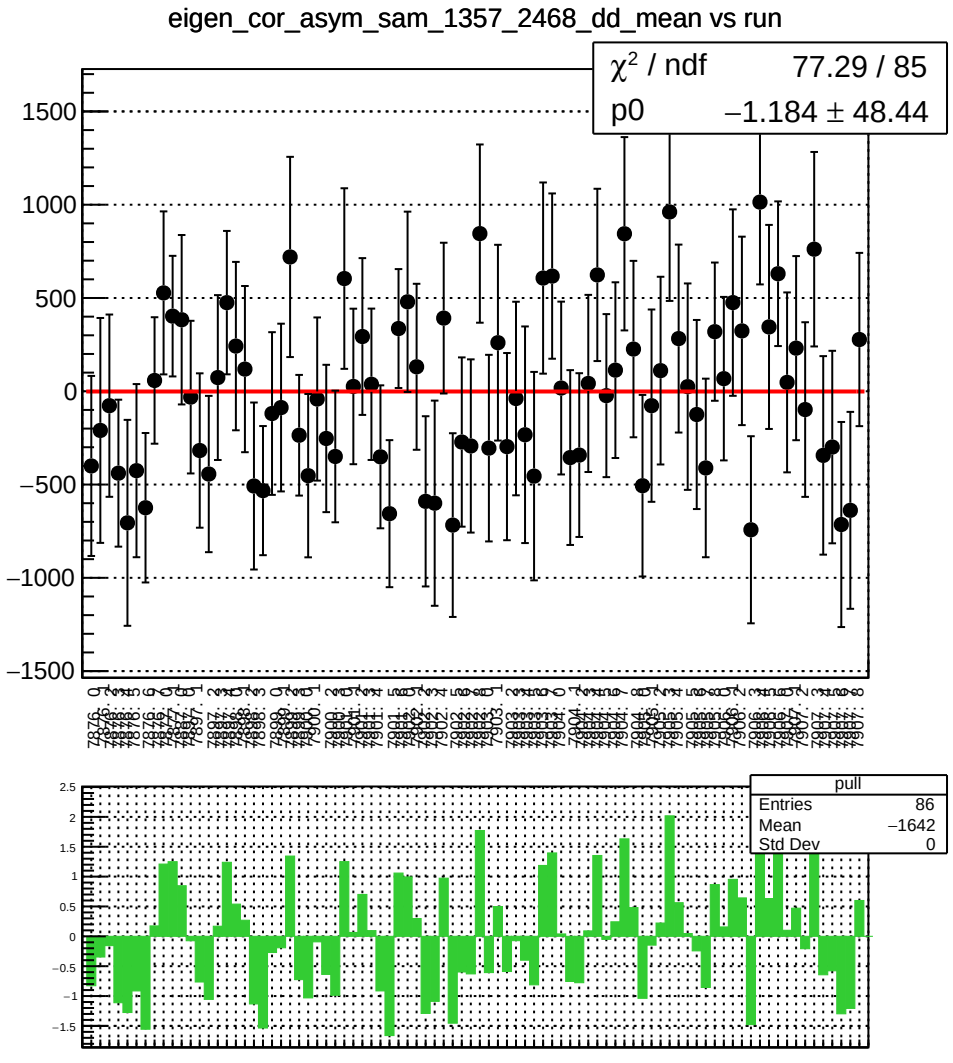

pull1D
Entries 86
Mean −0.002774
Std Dev 0.948
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

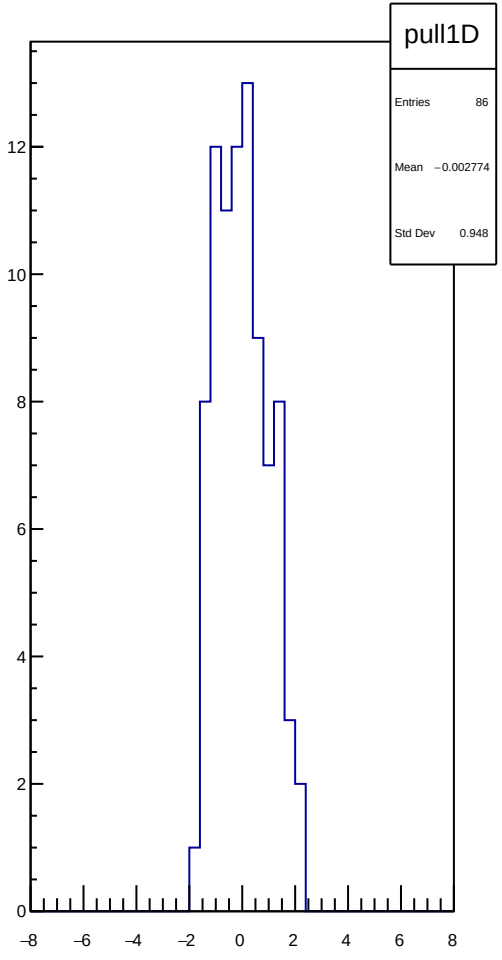

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.785e+04 / 85
p0 44.27 ± 0.03425
55
50
45
40
35

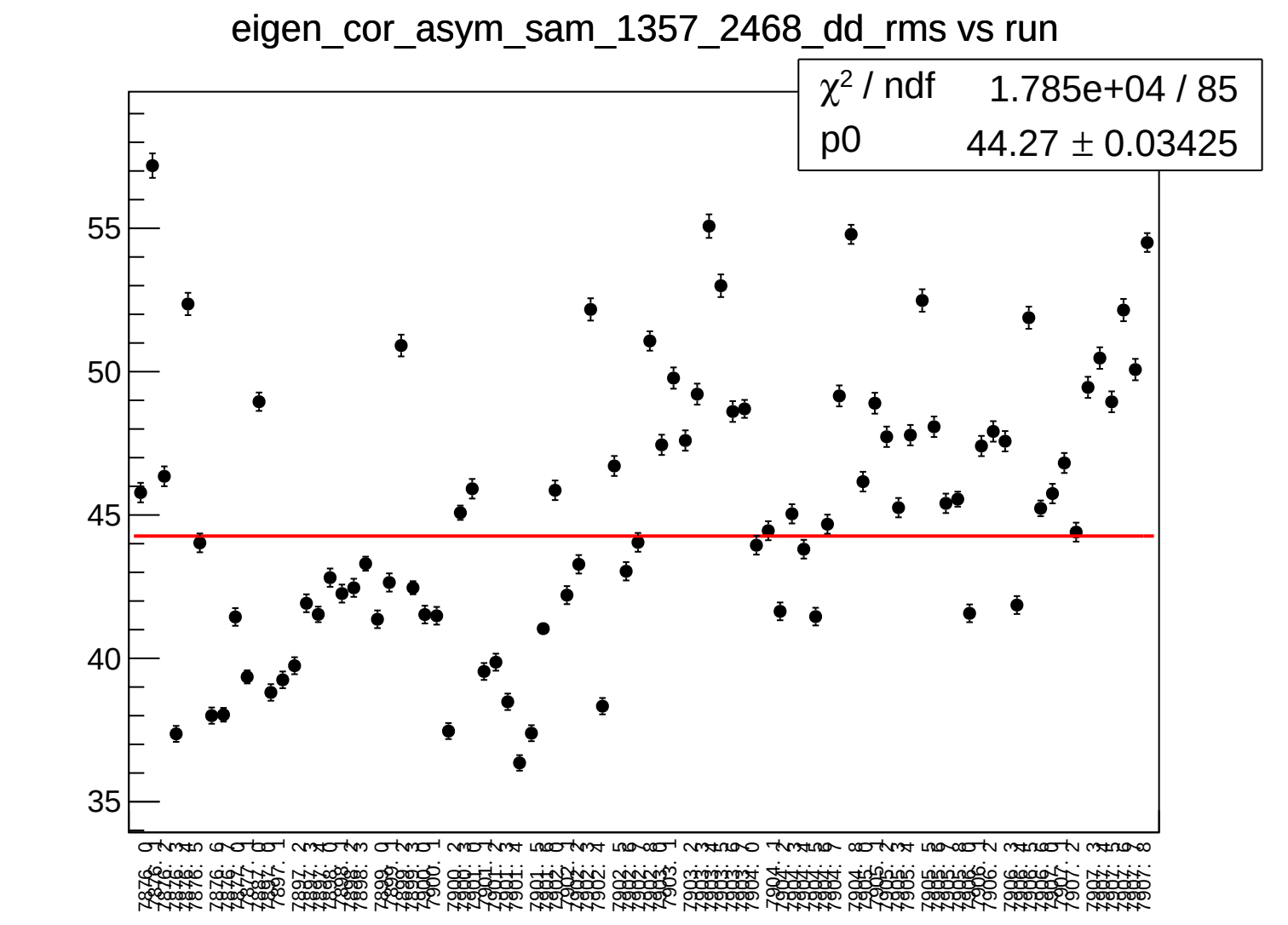

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 85.05 / 85
p0 1216 ± 747.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −28.42
Std Dev 14.77
2
1
0
−1
−2
−3

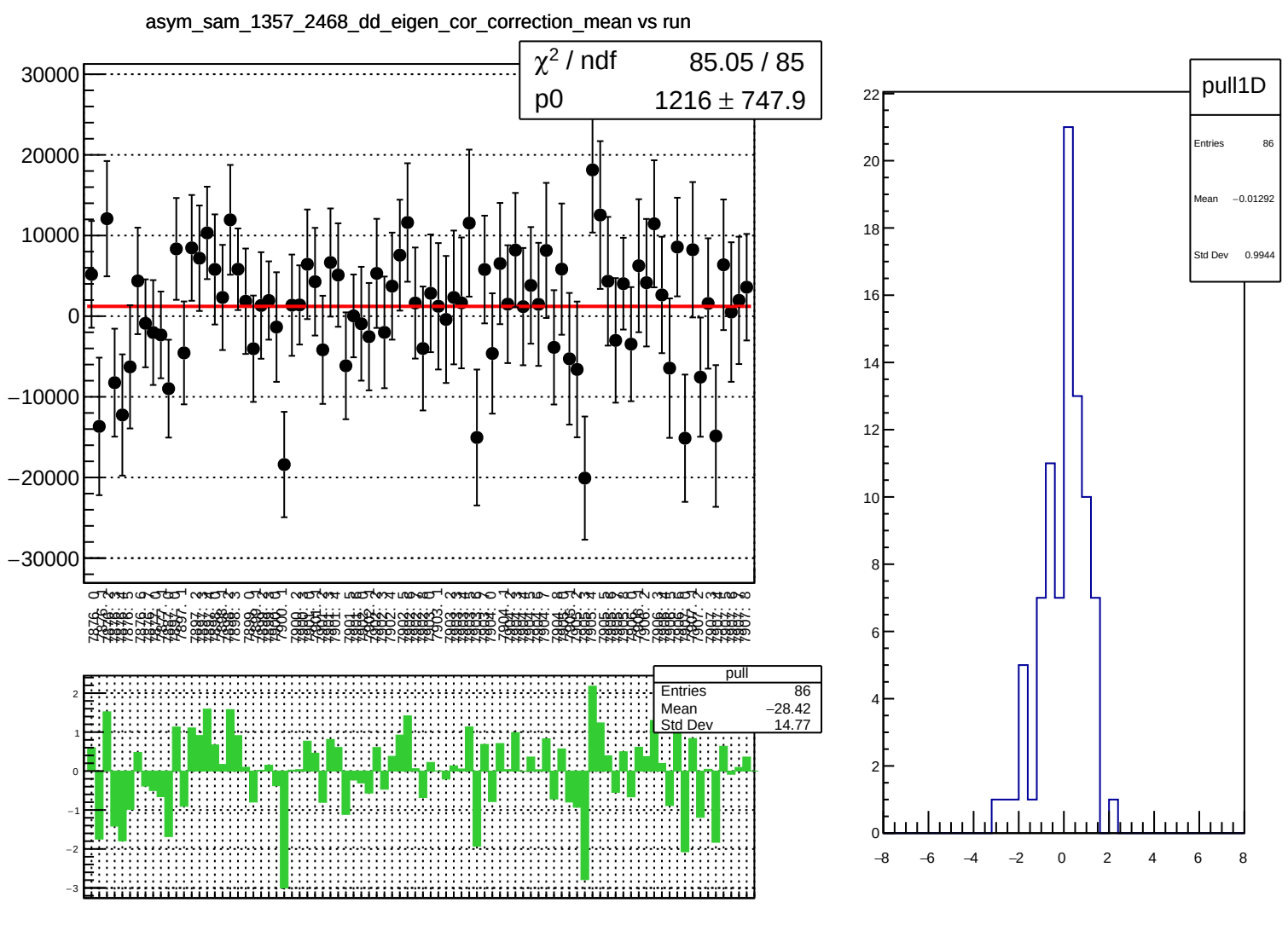

pull1D
Entries 86
Mean −0.01292
Std Dev 0.9944
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

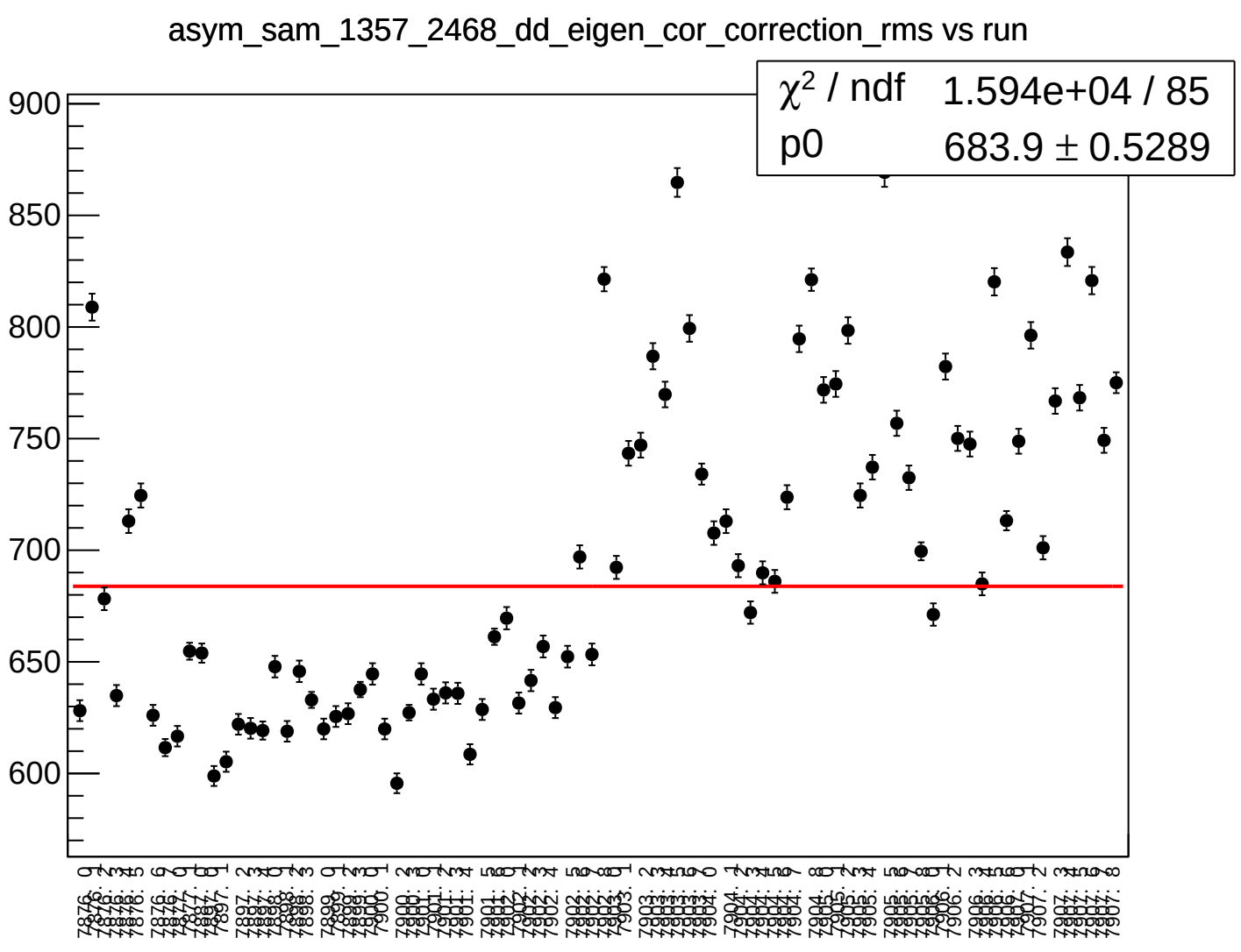

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.594e+04 / 85
p0 683.9 ± 0.5289
900
850
800
750
700
650
600

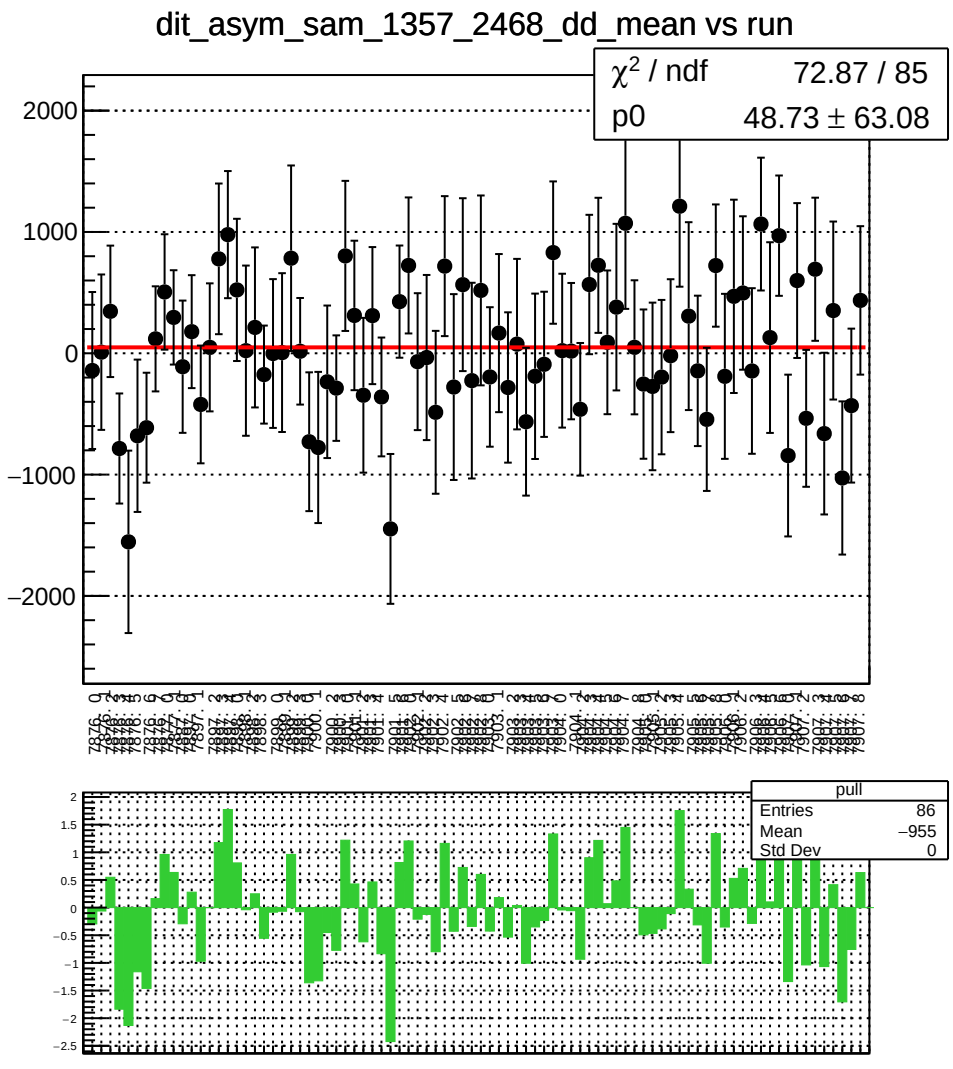

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 77.29 / 85
p0 −1.184 ± 48.44
pull
Entries 86
Mean −1642
Std Dev 0

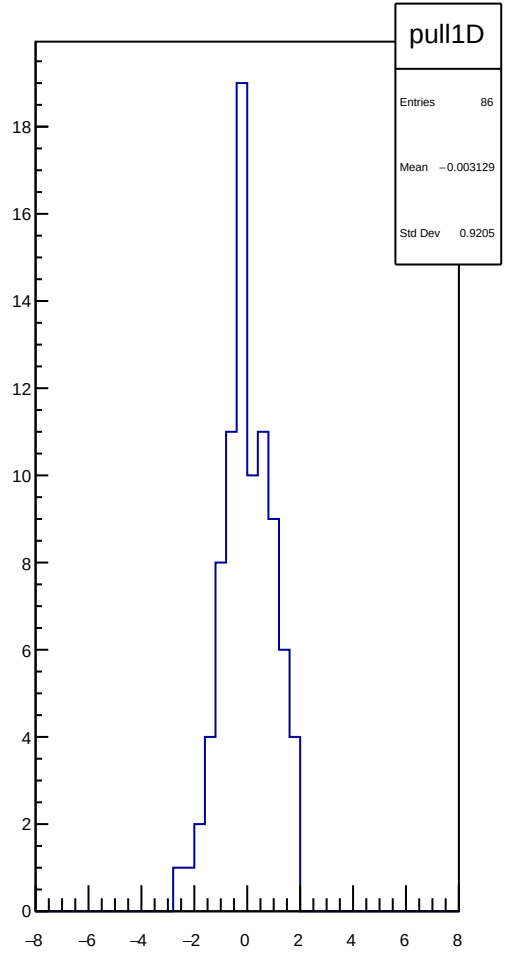

pull1D
Entries 86
Mean −0.002774
Std Dev 0.948

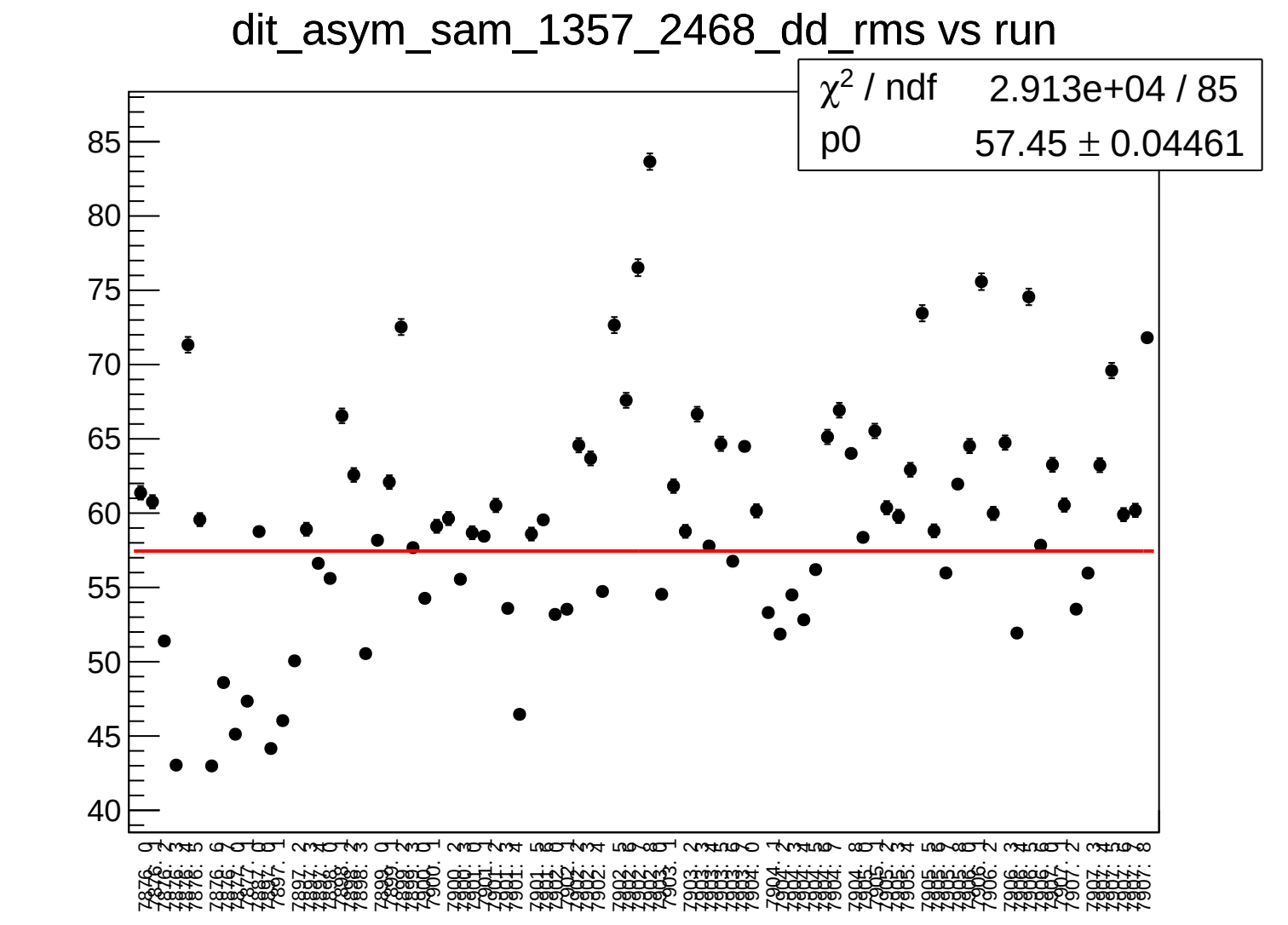

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.785e+04 / 85
p0 44.27 ± 0.03425
55
50
45
40
35

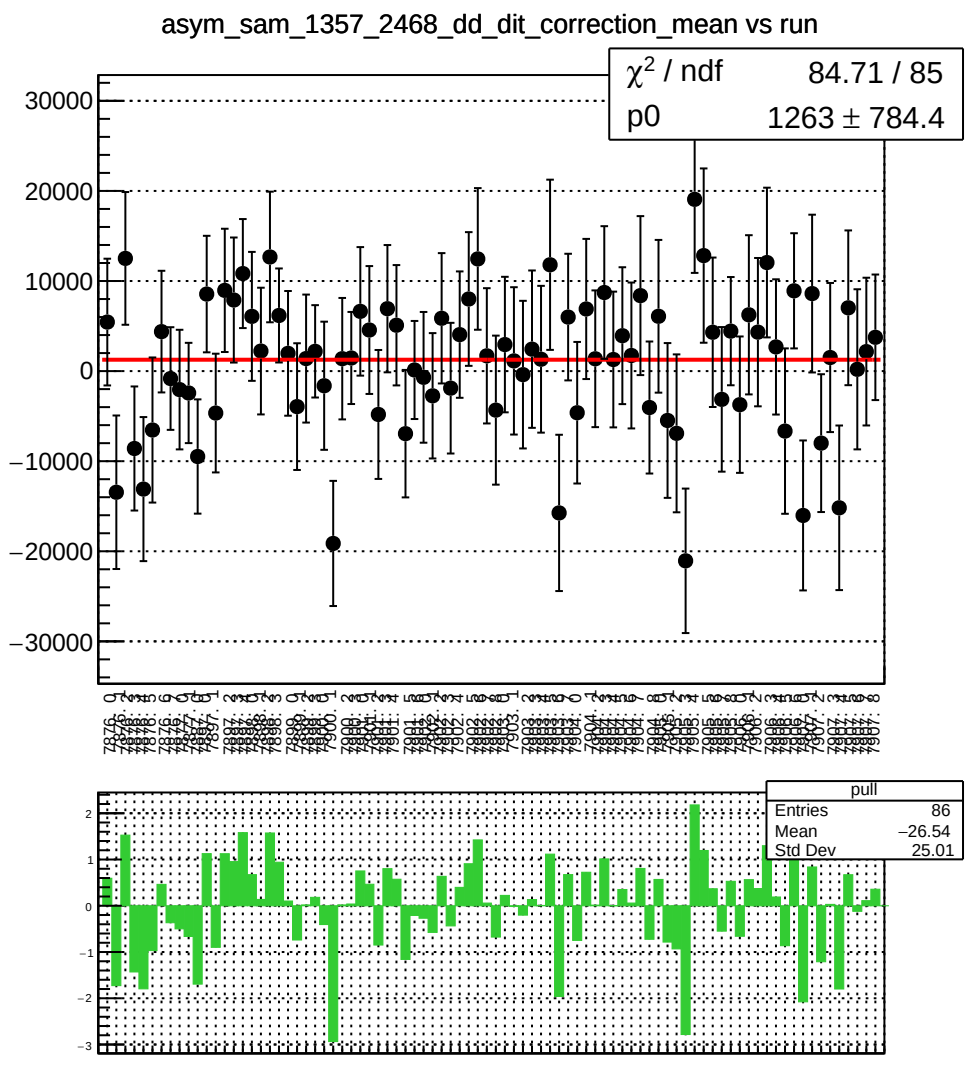

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.05 / 85
p0 1216 ± 747.9
pull
Entries 86
Mean −28.42
Std Dev 14.77
pull1D
Entries 86
Mean −0.01292
Std Dev 0.9944

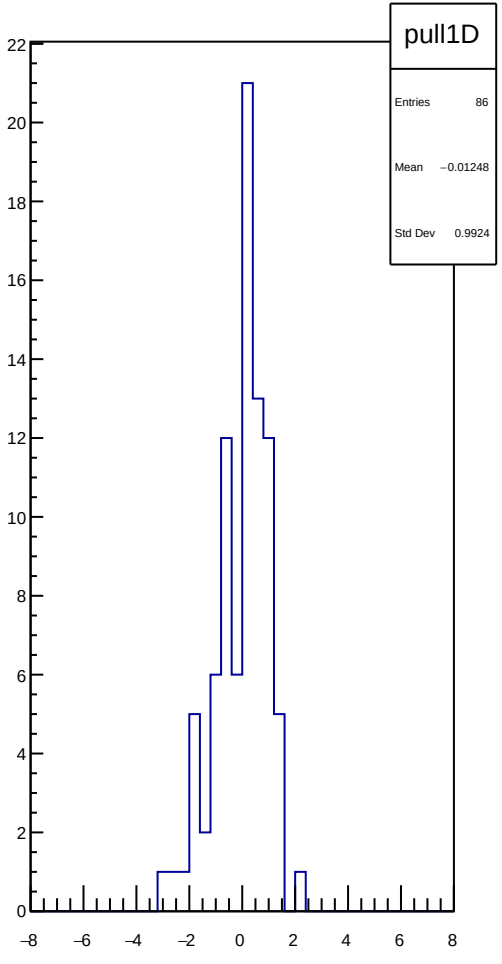

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.594e+04 / 85
p0 683.9 ± 0.5289
900
850
800
750
700
650
600

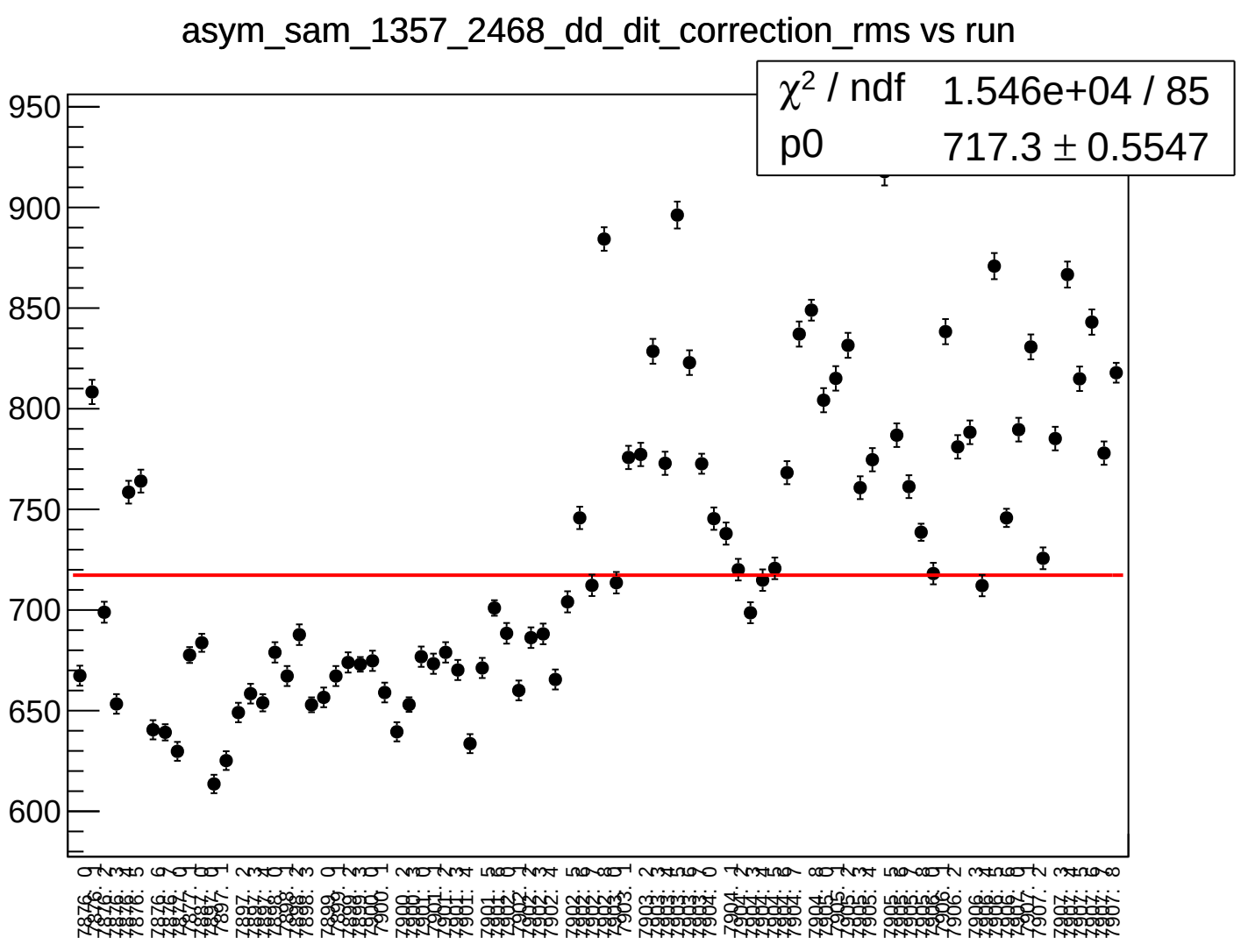

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 72.87 / 85
p0 48.73 ± 63.08
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −955
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

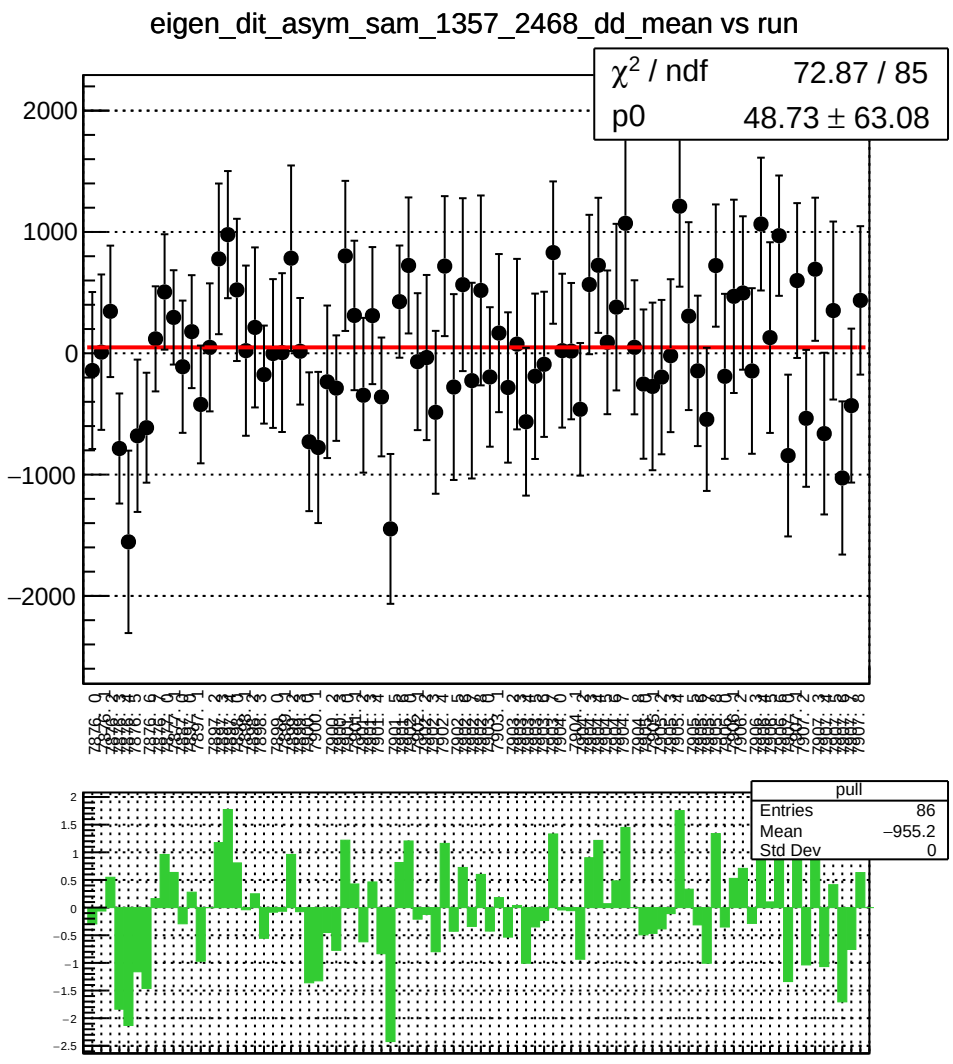

pull1D
Entries 86
Mean −0.003129
Std Dev 0.9205
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

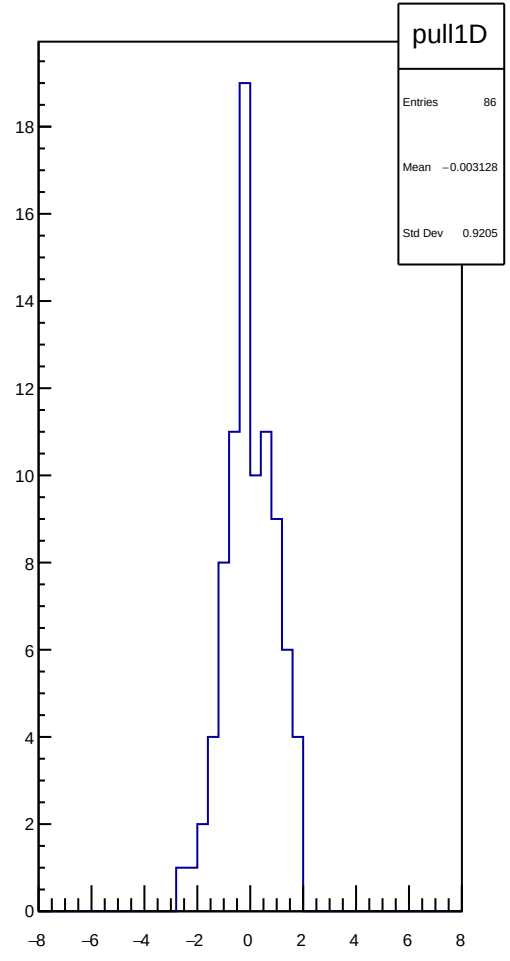

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.913e+04 / 85
p0 57.45 ± 0.04461
85
80
75
70
65
60
55
50
45
40

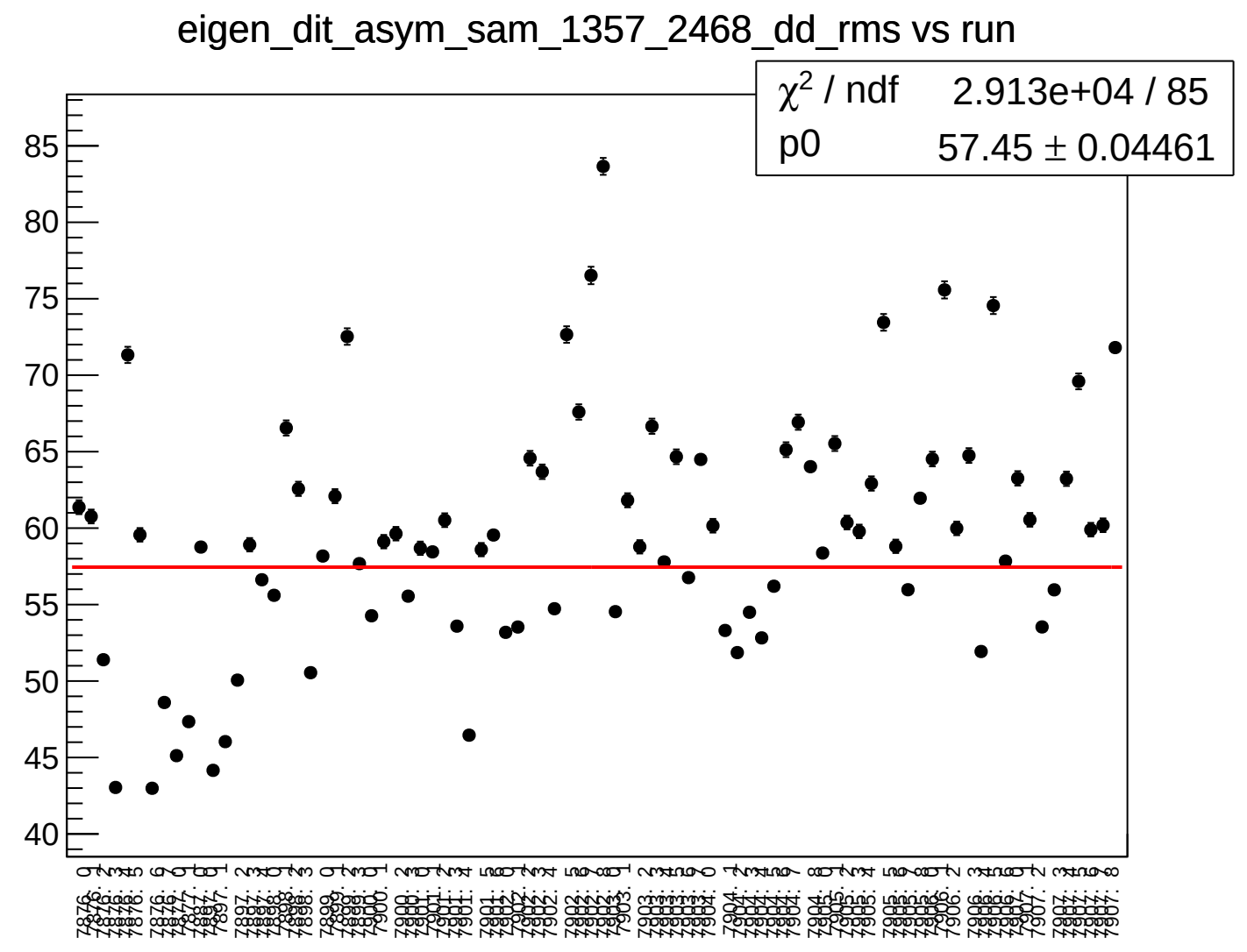

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 84.71 / 85
p0 1263 ± 784.4
pull
Entries 86
Mean −26.54
Std Dev 25.01

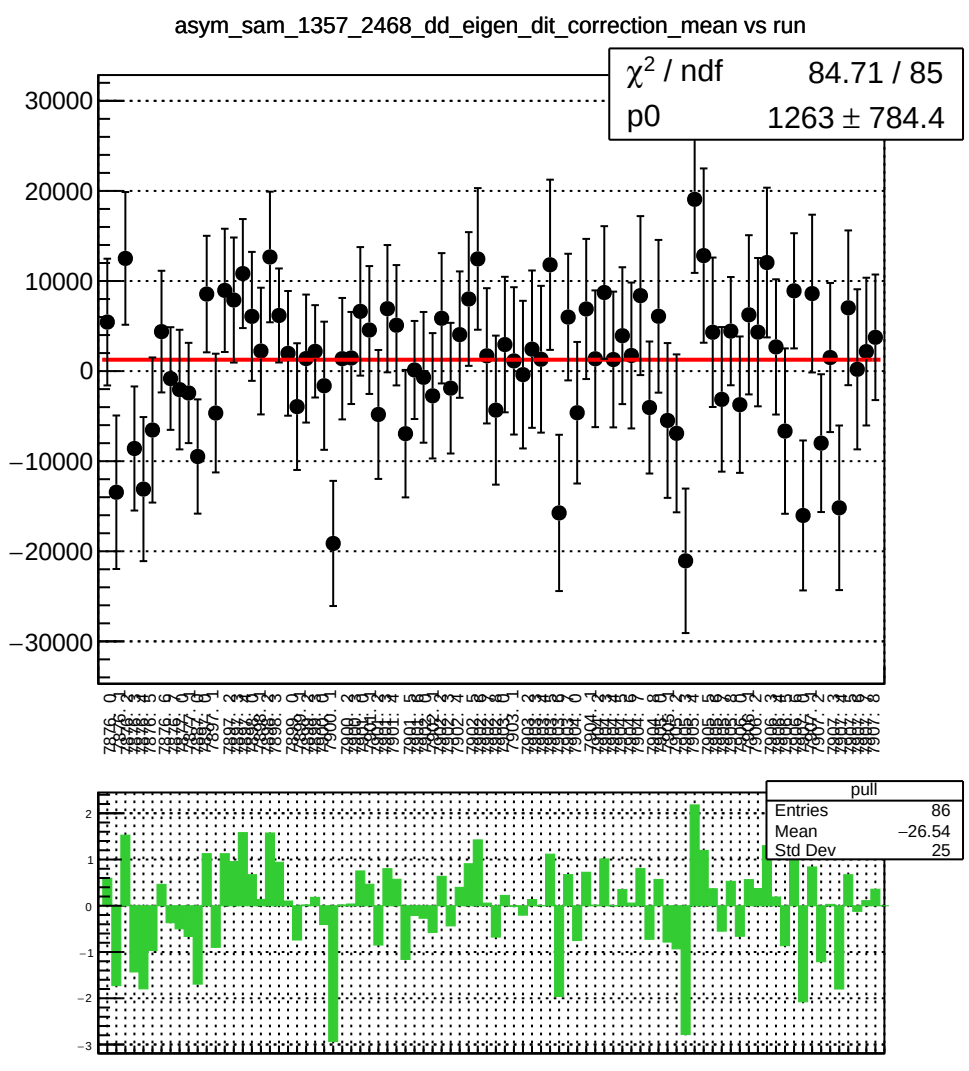

pull1D
Entries 86
Mean −0.01248
Std Dev 0.9924

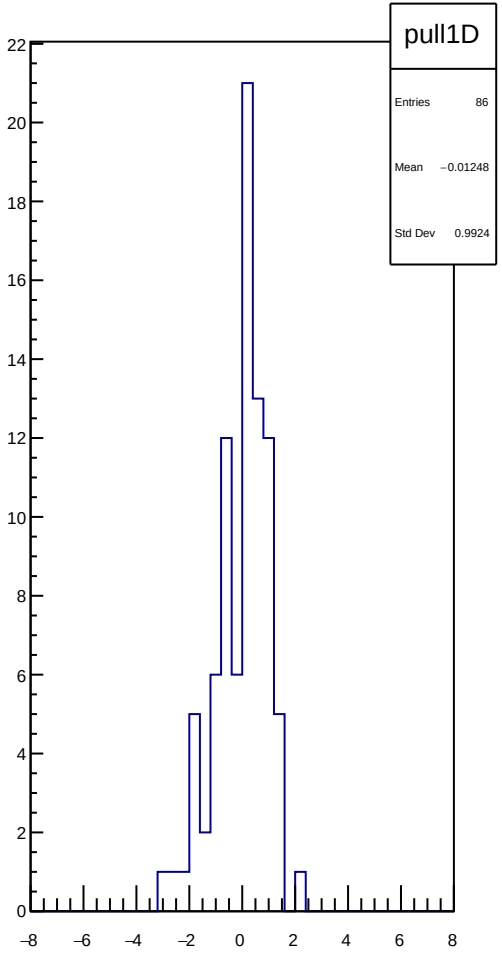

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.546e+04 / 85
p0 717.3 ± 0.5547
950
900
850
800
750
700
650
600

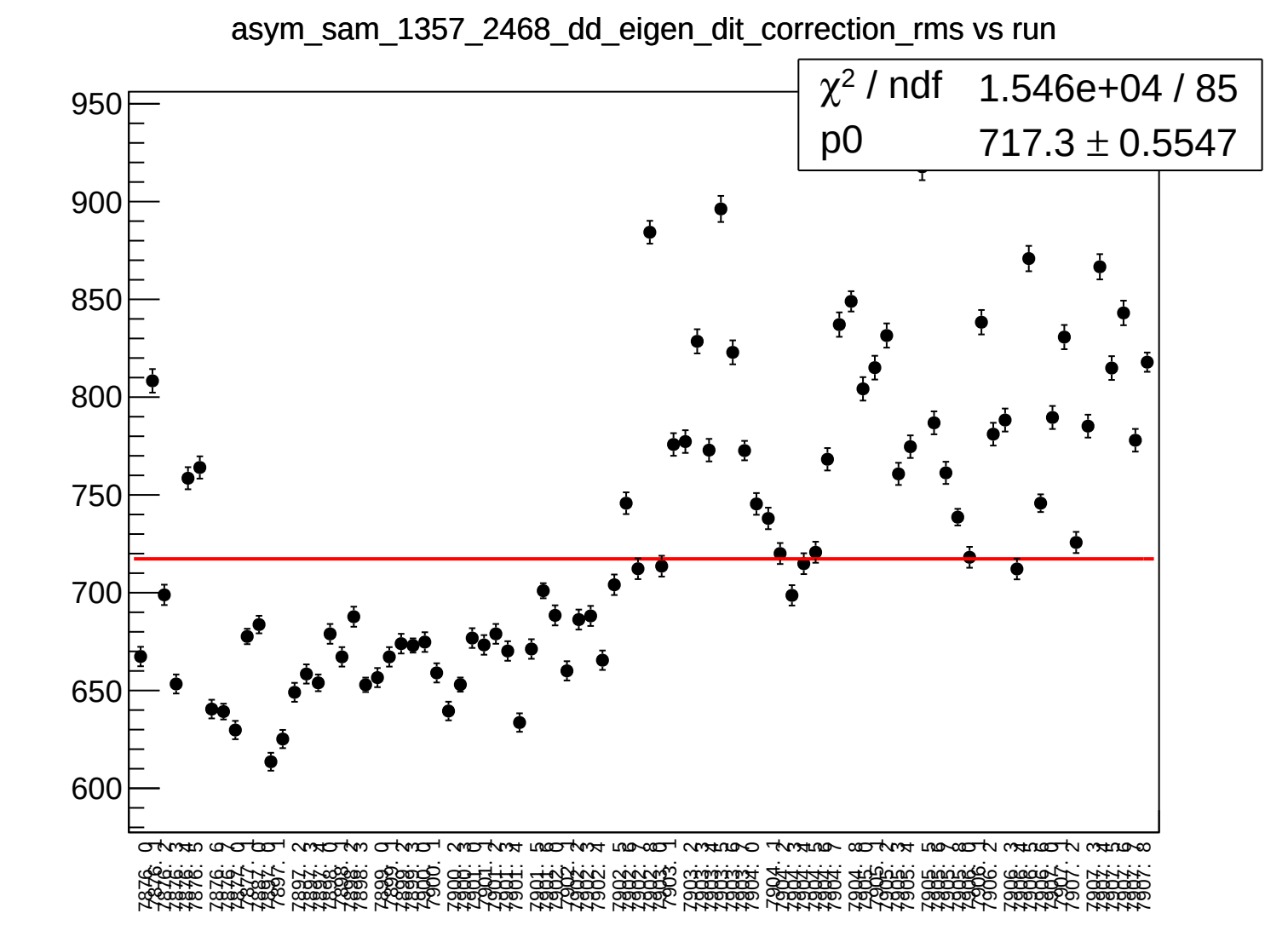

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 72.87 / 85
p0 48.73 ± 63.08
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −955.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

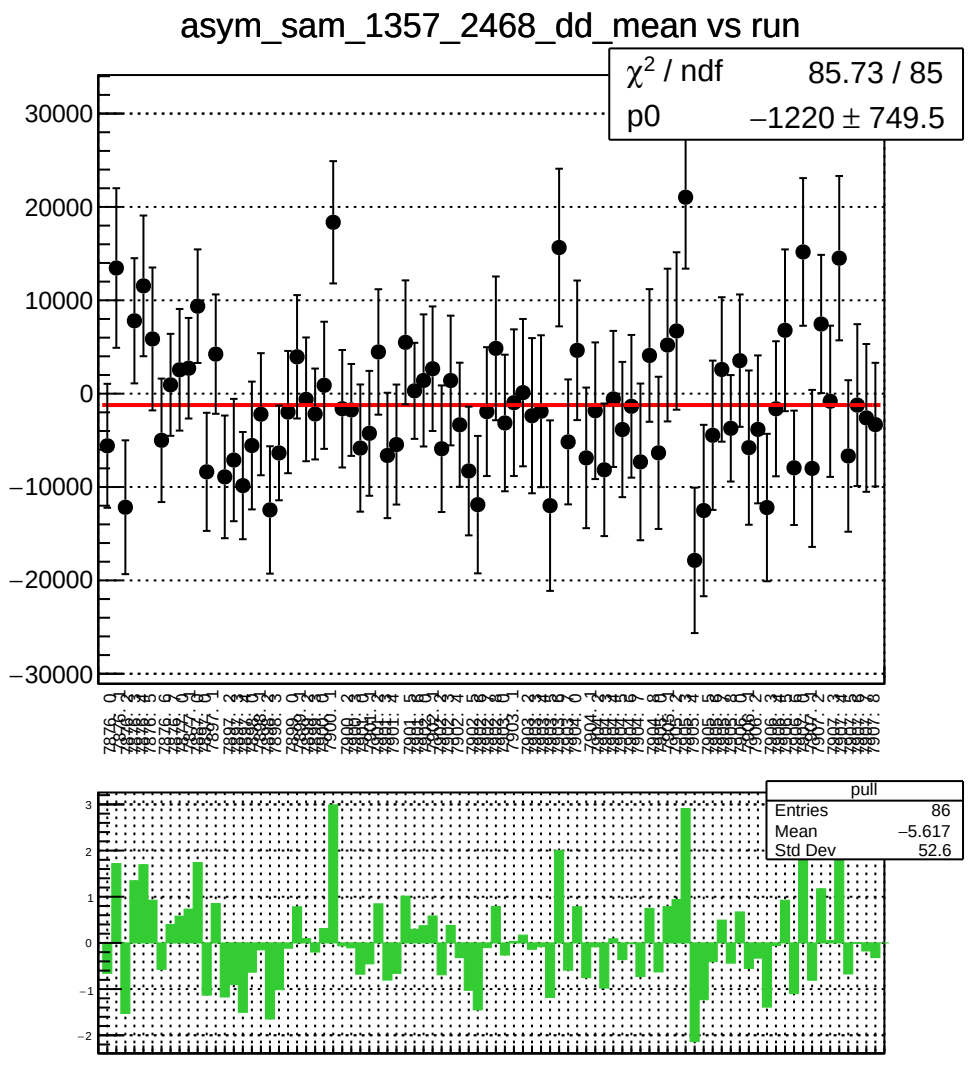

pull1D
Entries 86
Mean −0.003128
Std Dev 0.9205
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

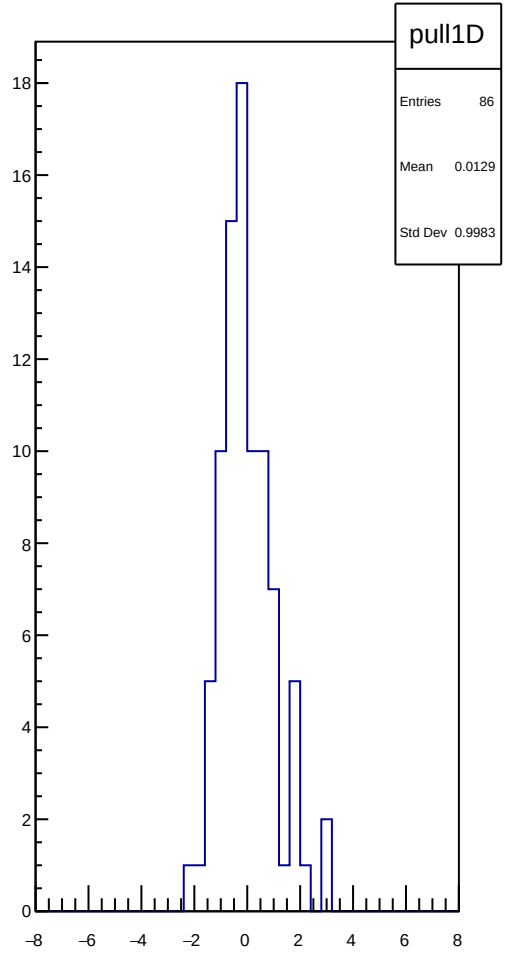

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.913e+04 / 85
p0 57.45 ± 0.04461
85
80
75
70
65
60
55
50
45
40

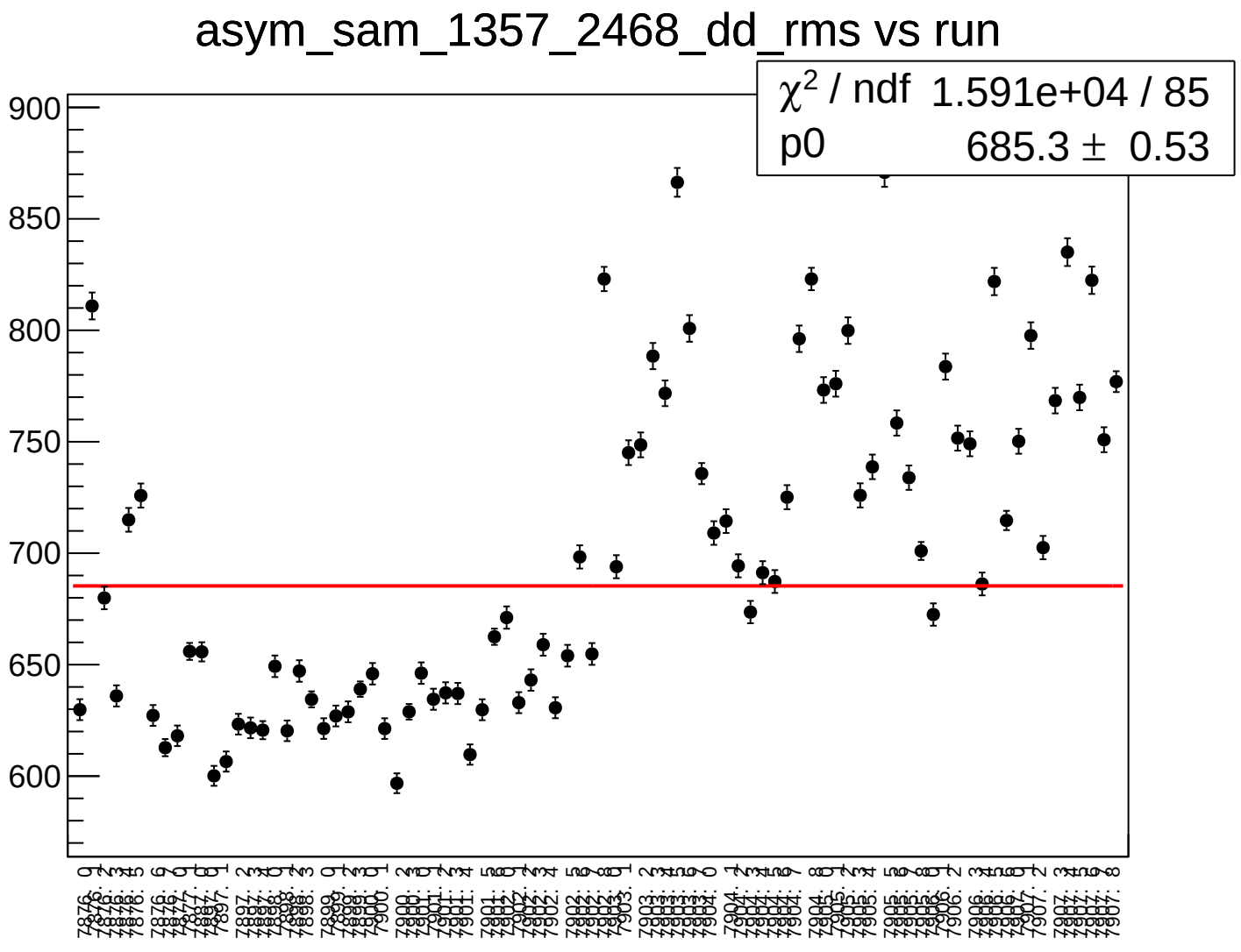

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.71 / 85
p0 1263 ± 784.4
pull
Entries 86
Mean −26.54
Std Dev 25

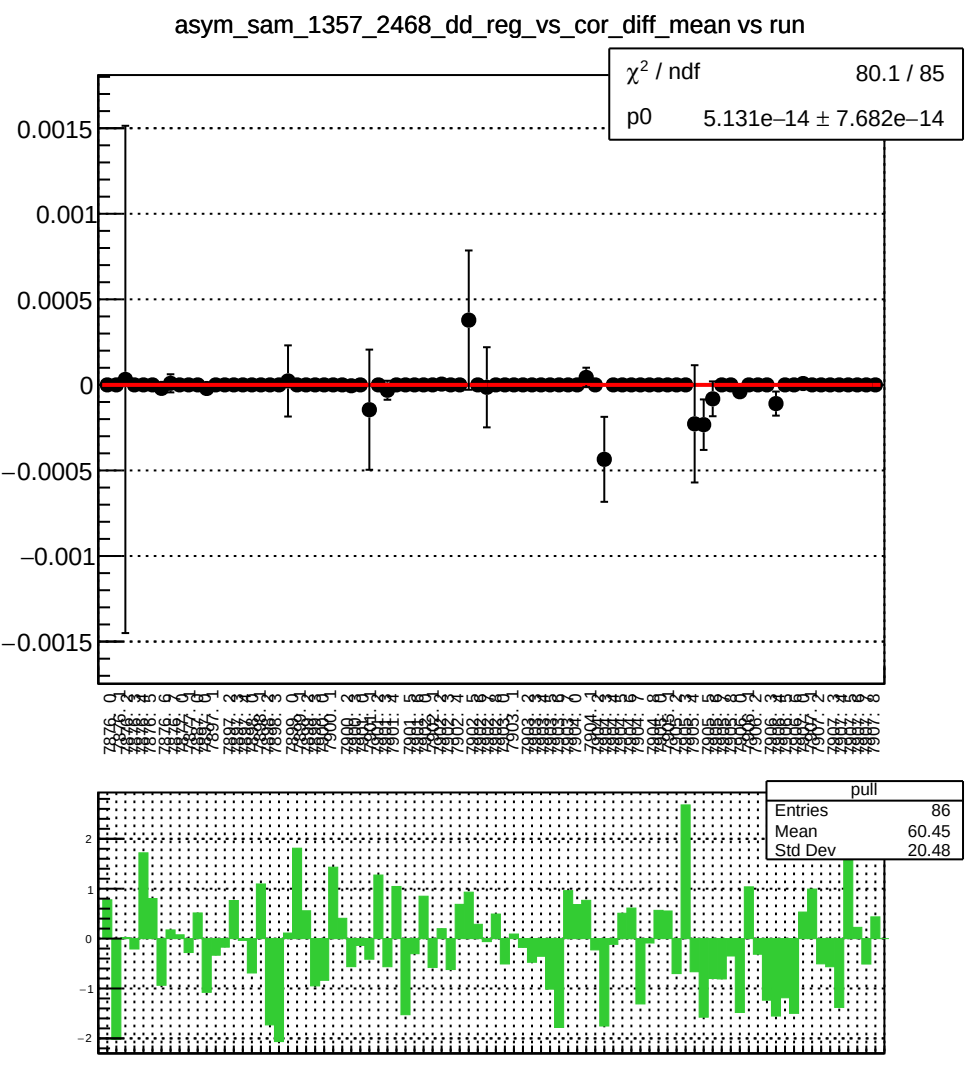

pull1D
Entries 86
Mean −0.01248
Std Dev 0.9924

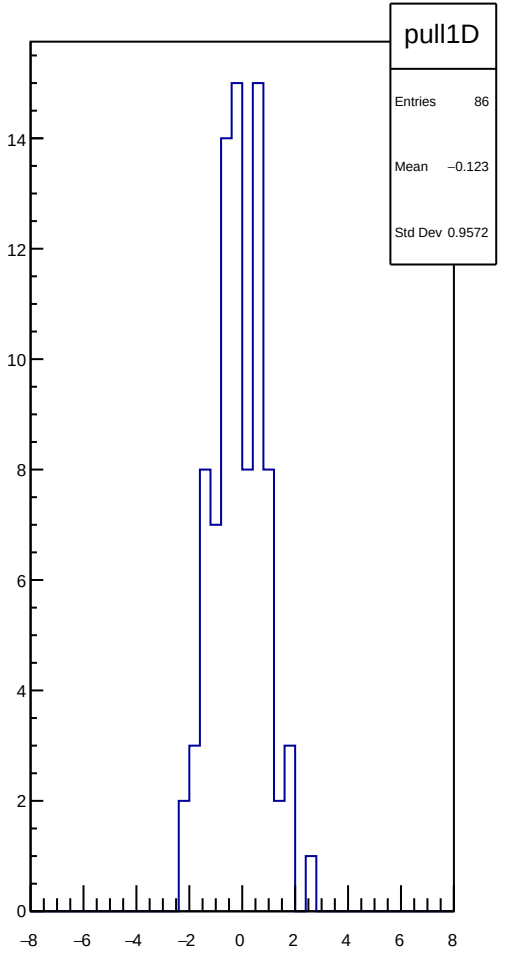

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.546e+04 / 85
p0 717.3 ± 0.5547
950
900
850
800
750
700
650
600

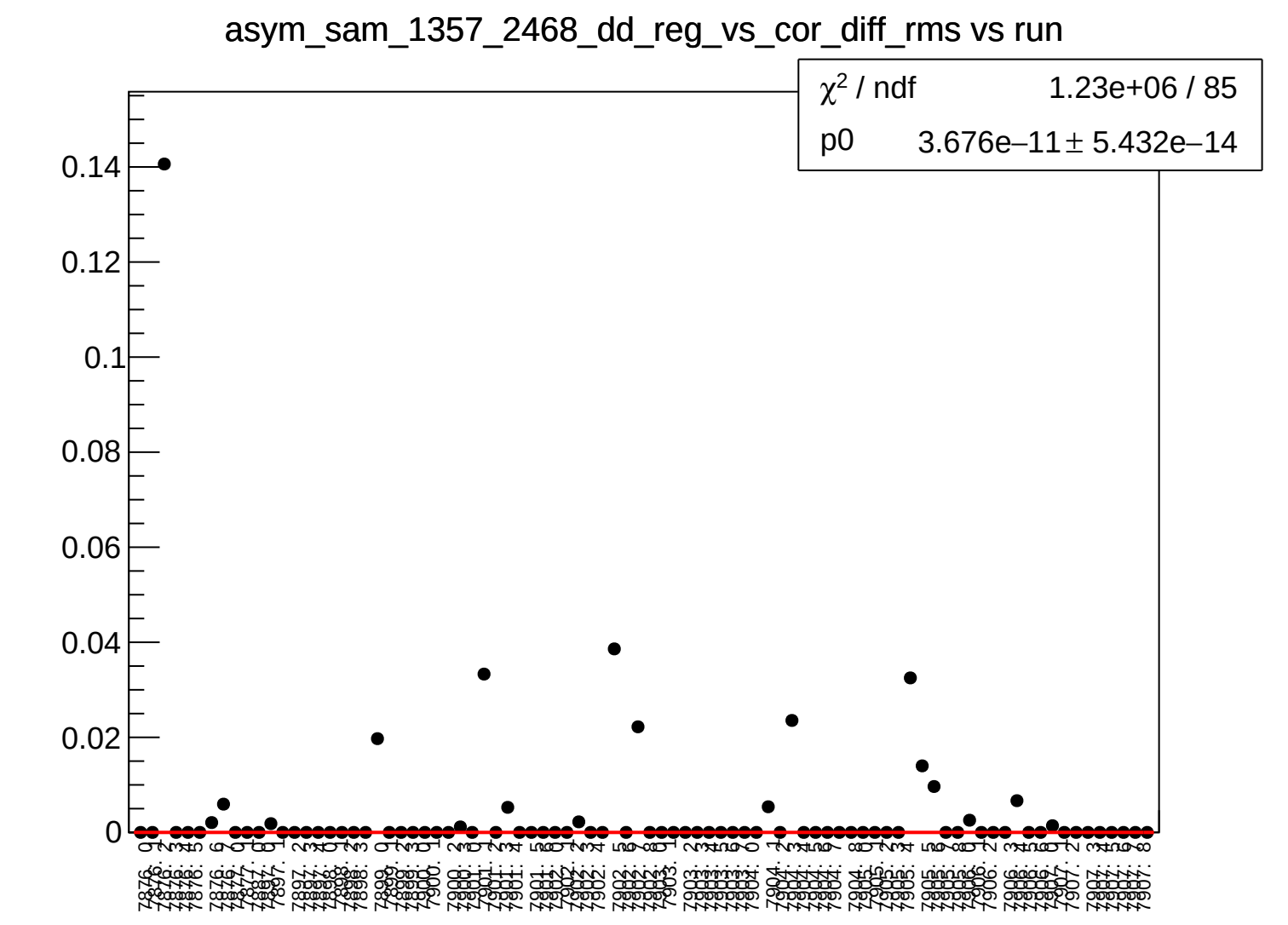

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 85.73 / 85
p0 −1220 ± 749.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −5.617
Std Dev 52.6
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.0129
Std Dev 0.9983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

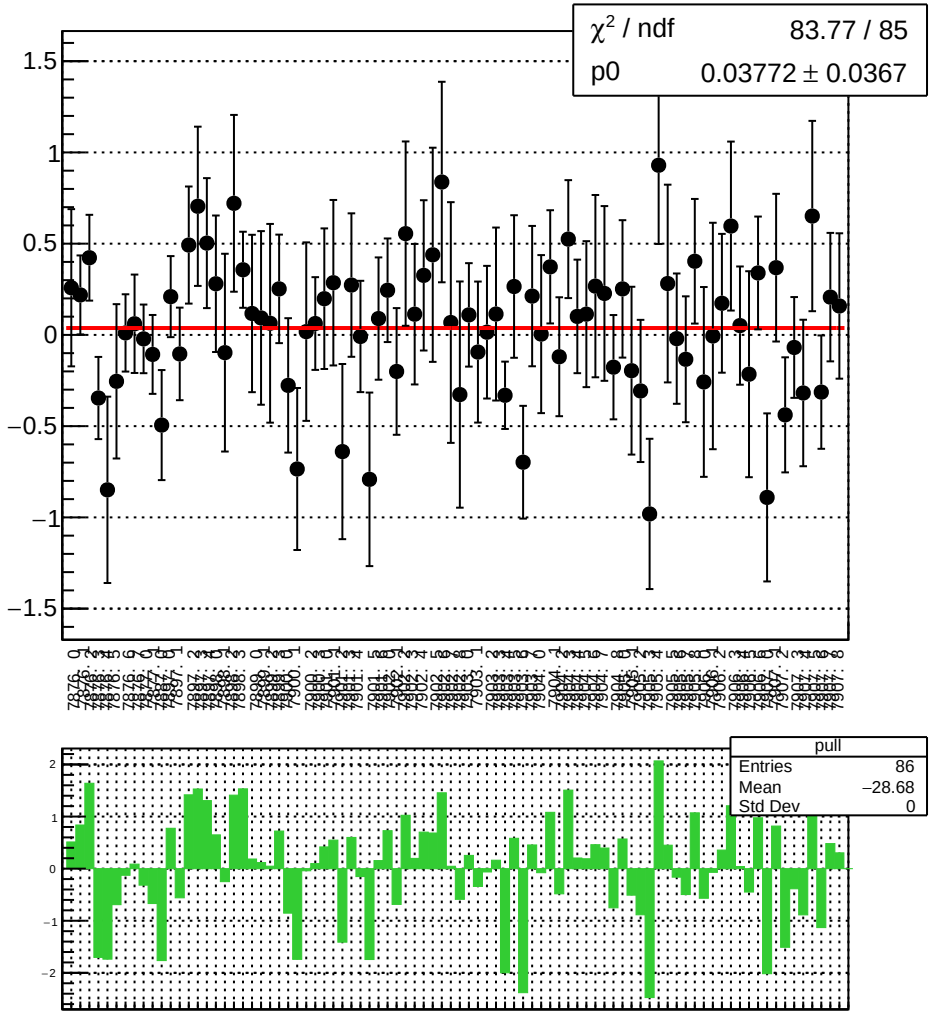

asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.591e+04 / 85
p0 685.3 ± 0.53
900
850
800
750
700
650
600

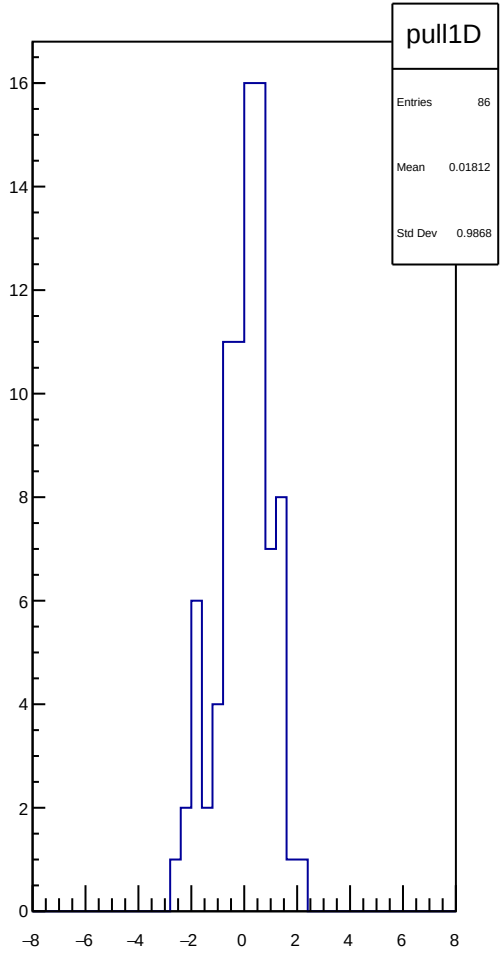

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.1 / 85
p0 5.131e−14 ± 7.682e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean 60.45
Std Dev 20.48
2
1
0
−1
−2

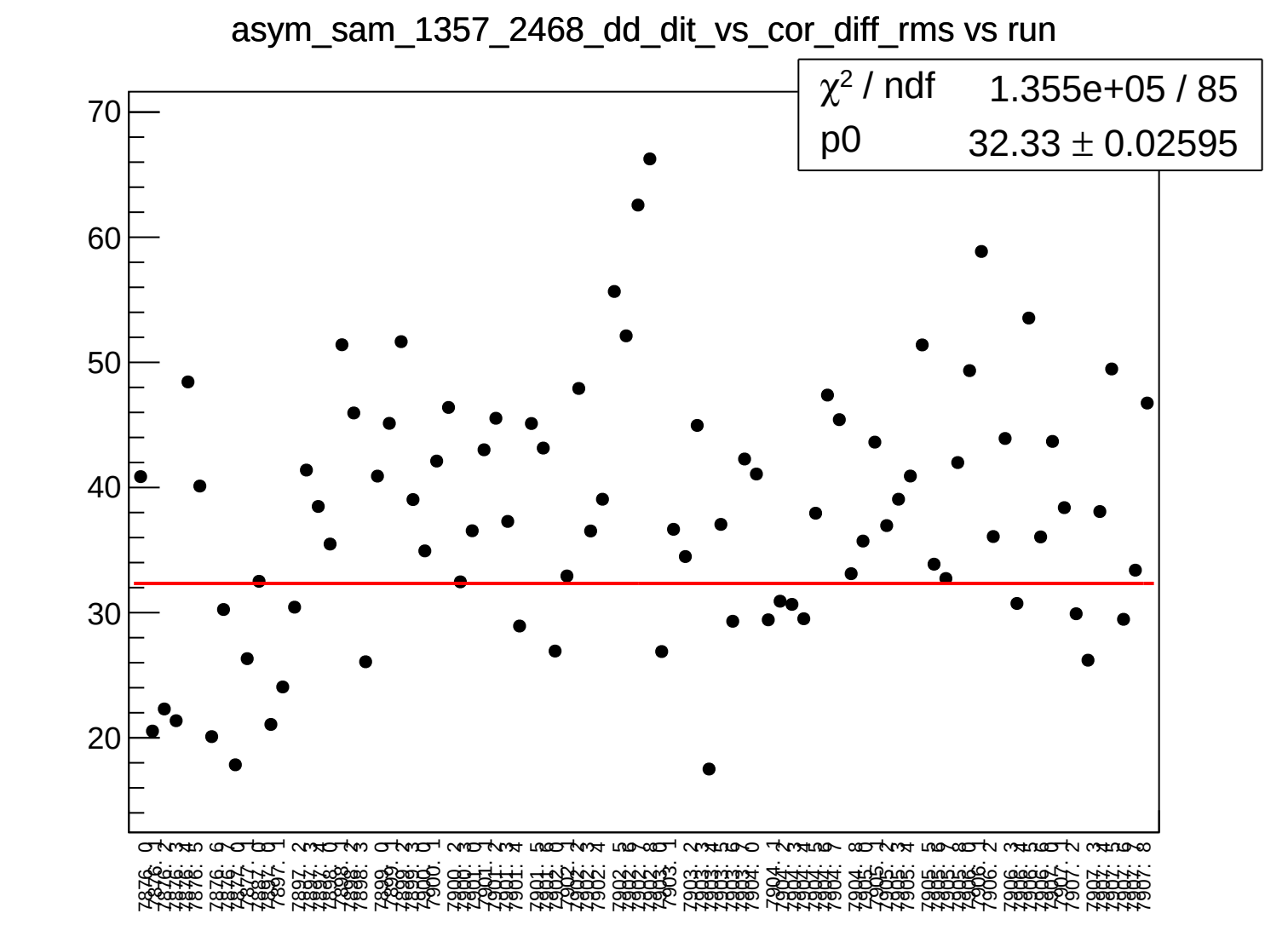

pull1D
Entries 86
Mean −0.123
Std Dev 0.9572
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.23e+06 / 85
p0 3.676e−11 ± 5.432e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

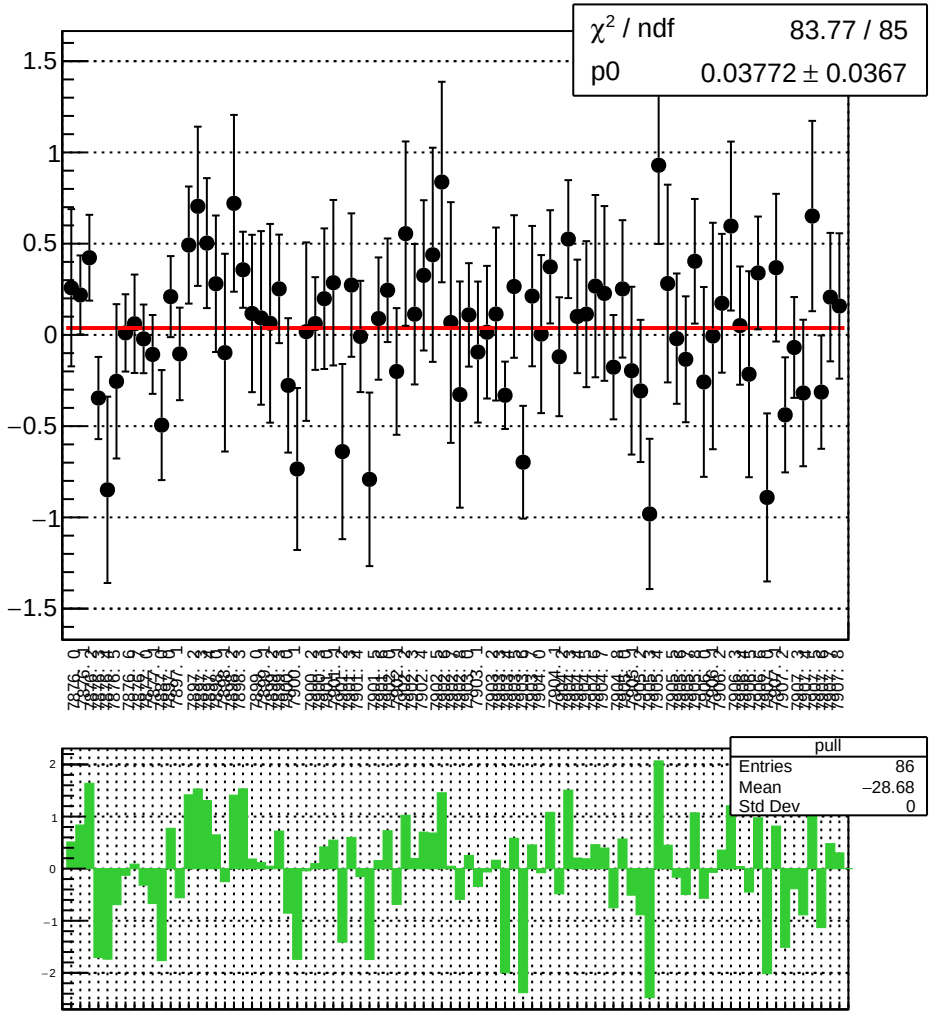
asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run

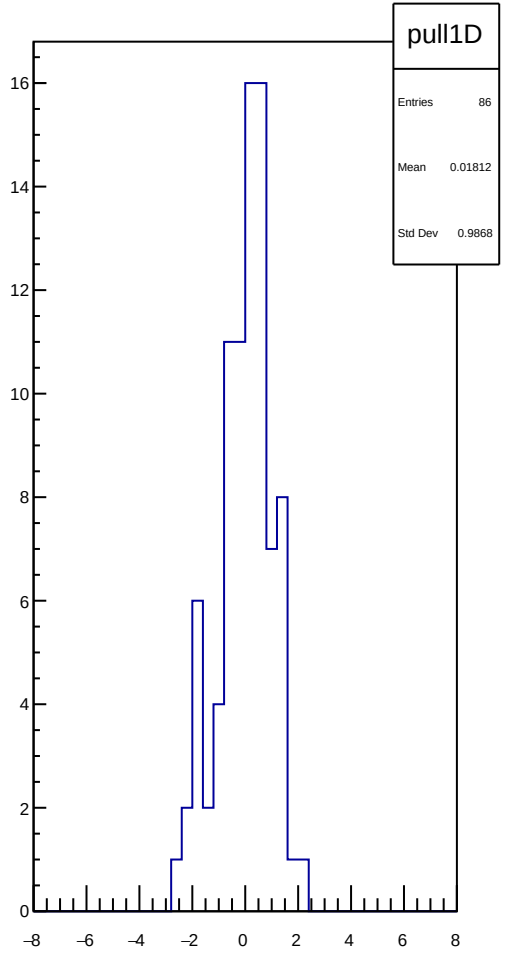


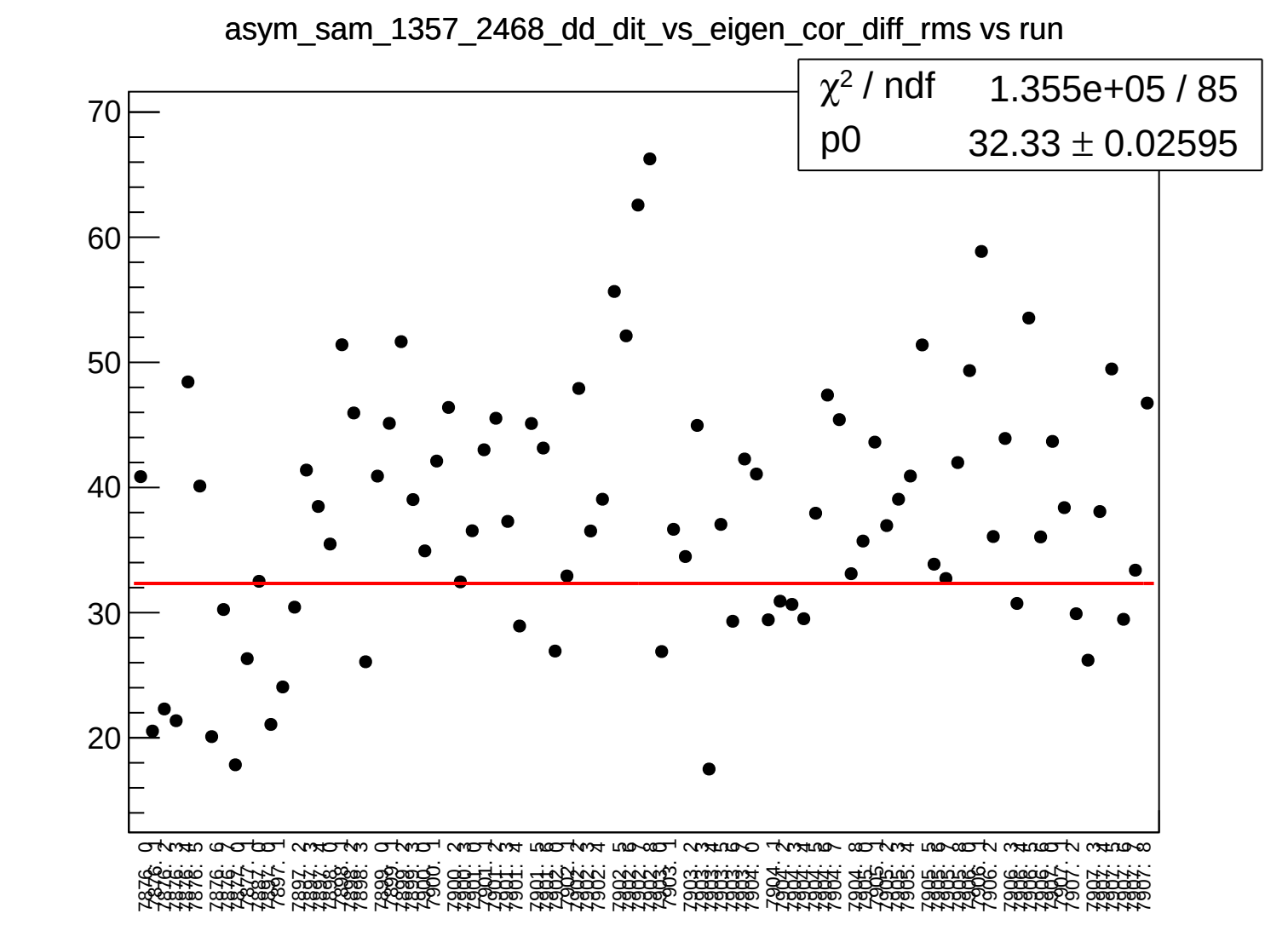


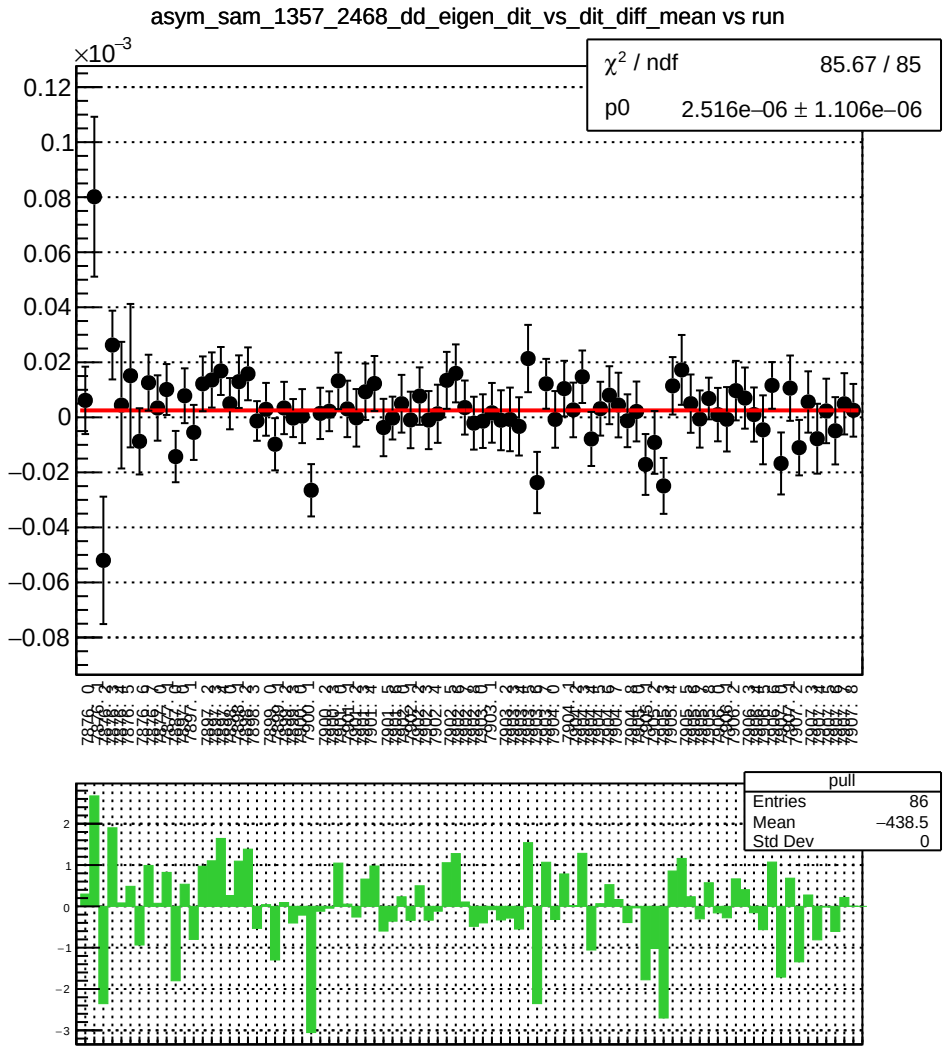

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 85
p0 32.33 ± 0.02595
70
60
50
40
30
20

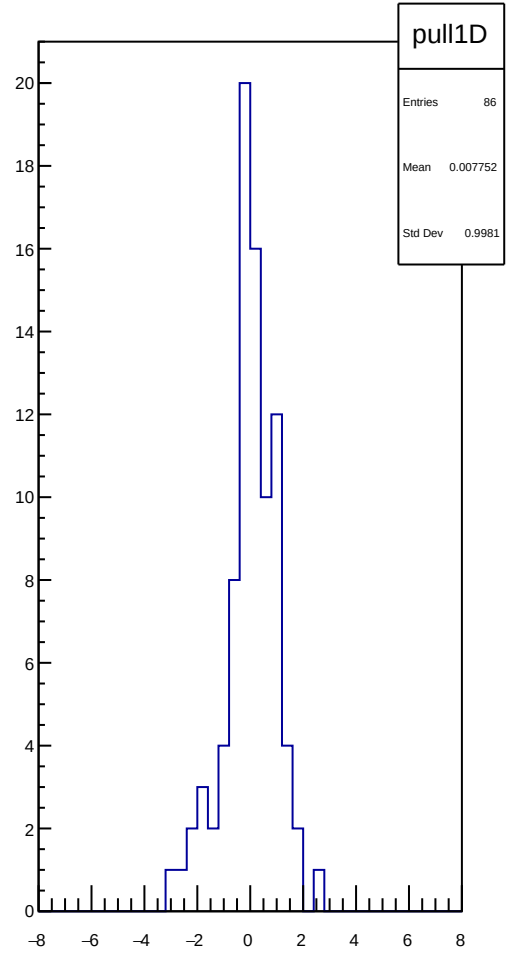
asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run

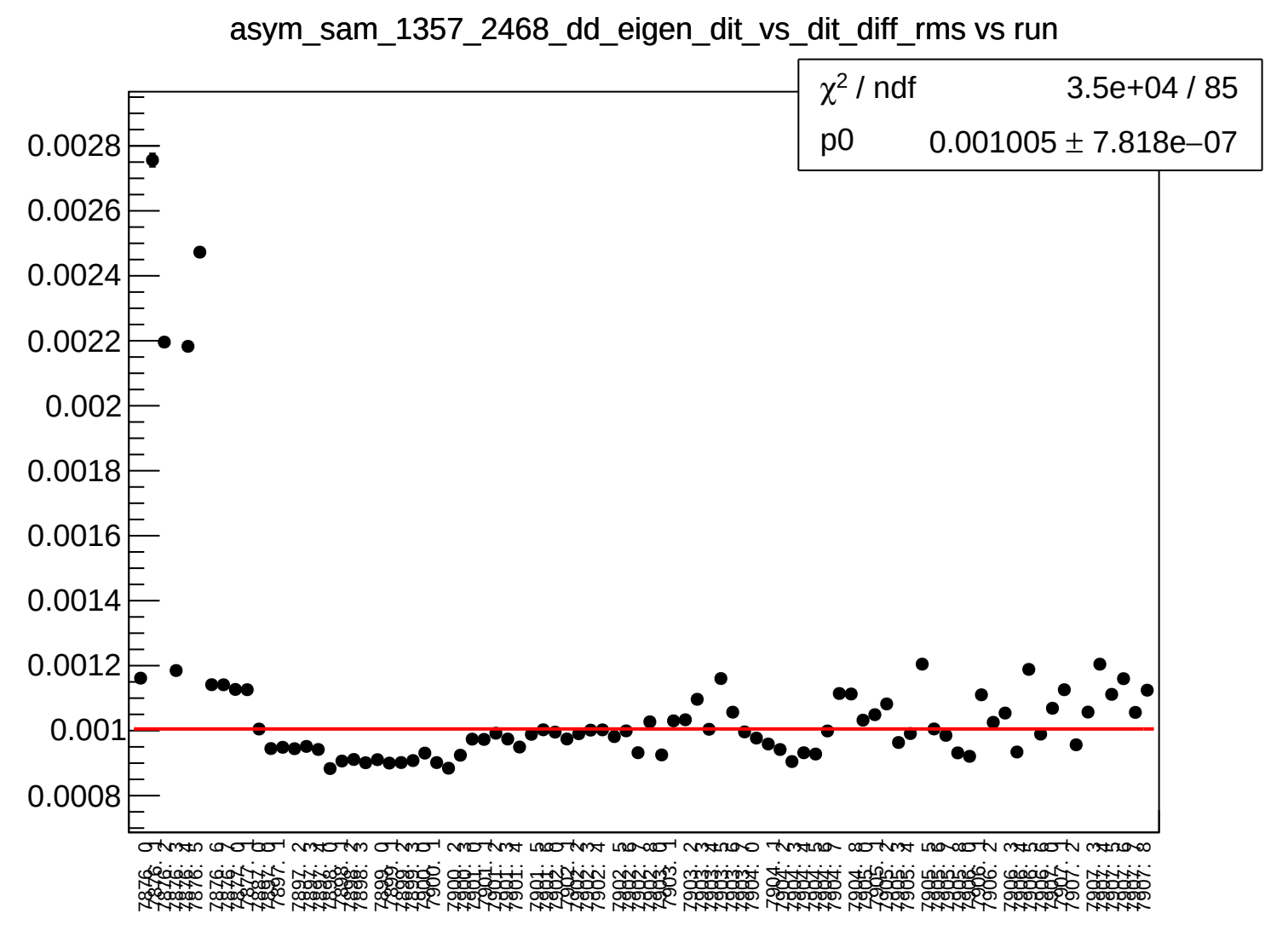


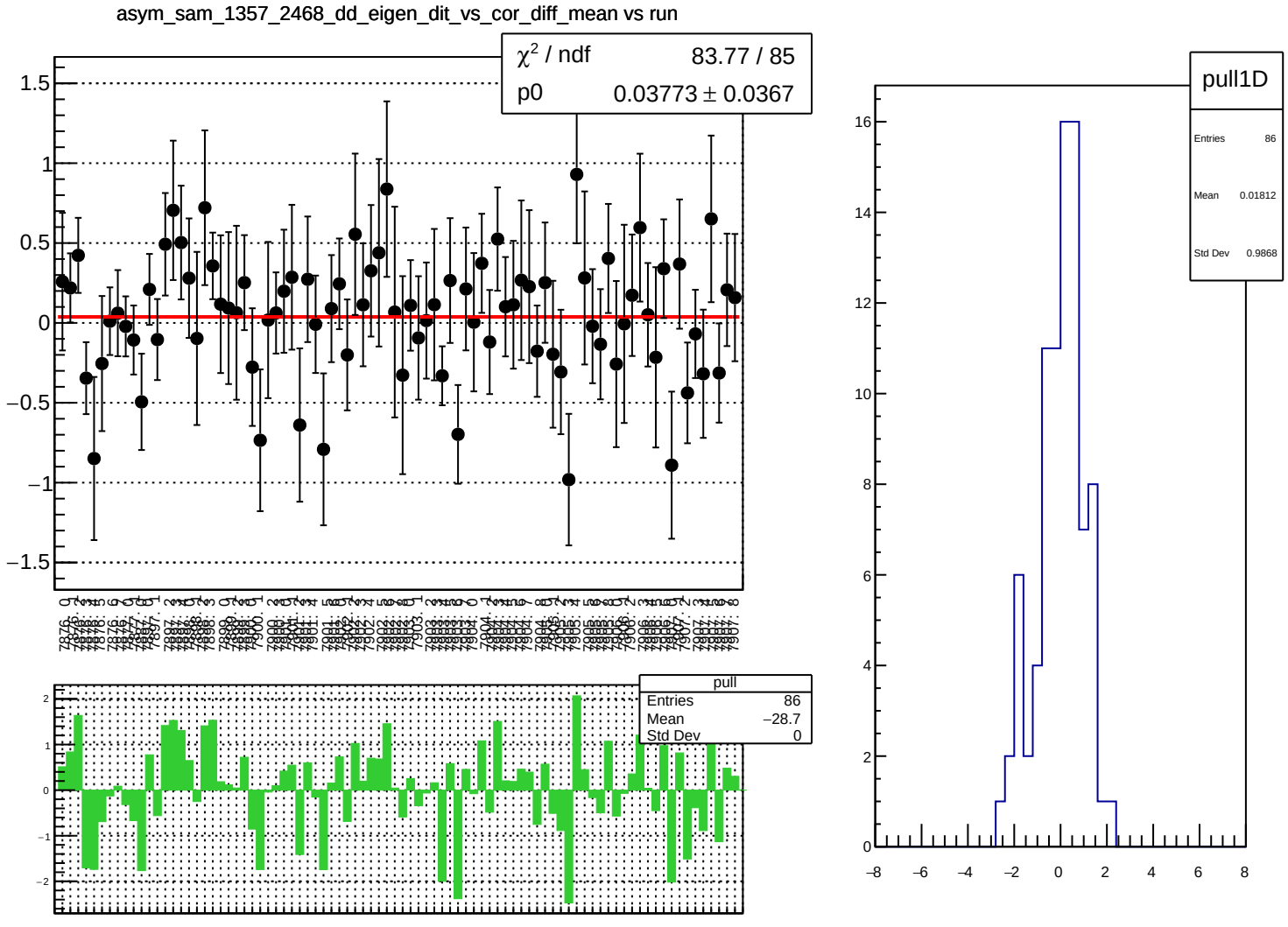


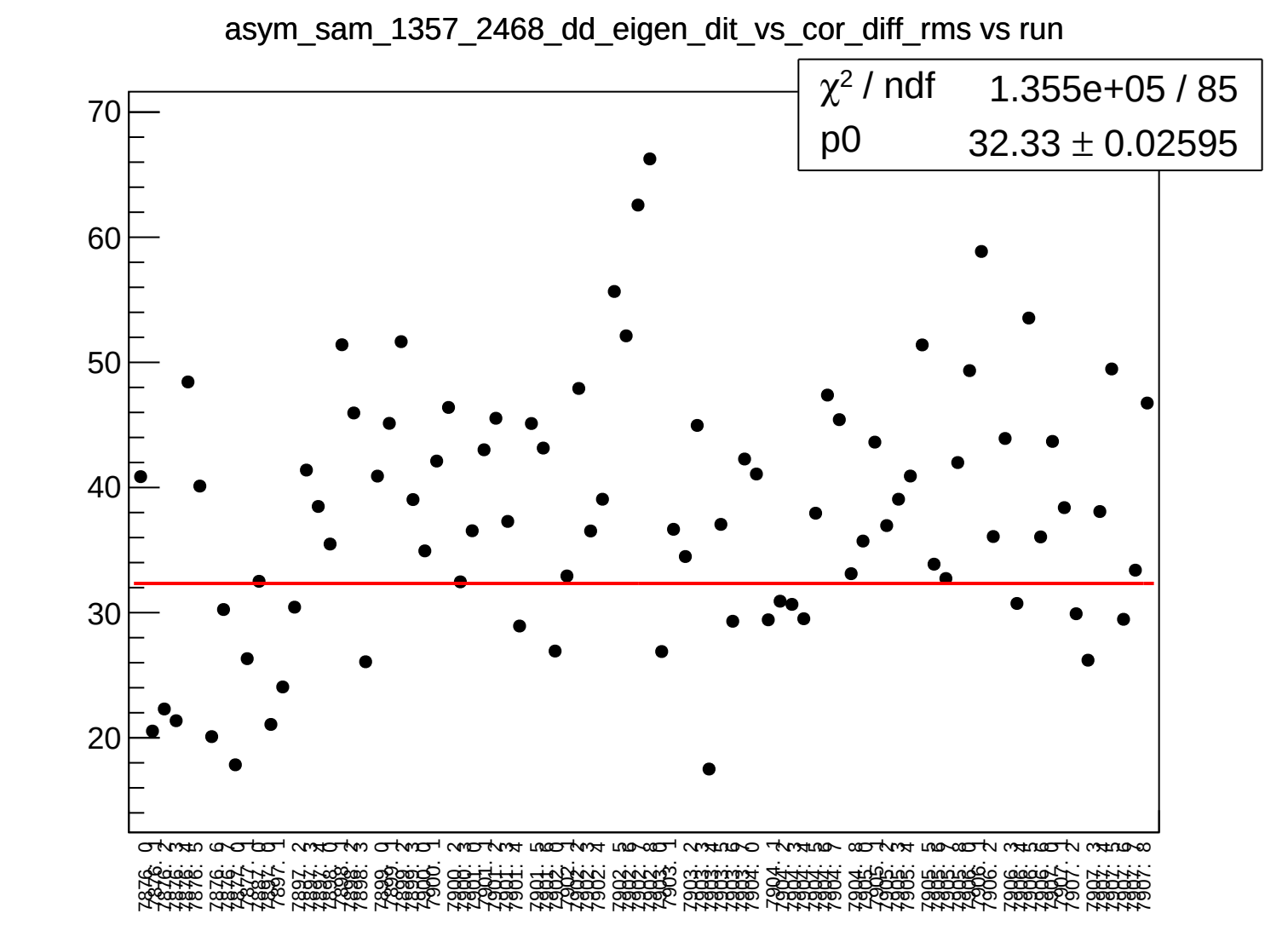

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 85
p0 32.33 ± 0.02595
70
60
50
40
30
20

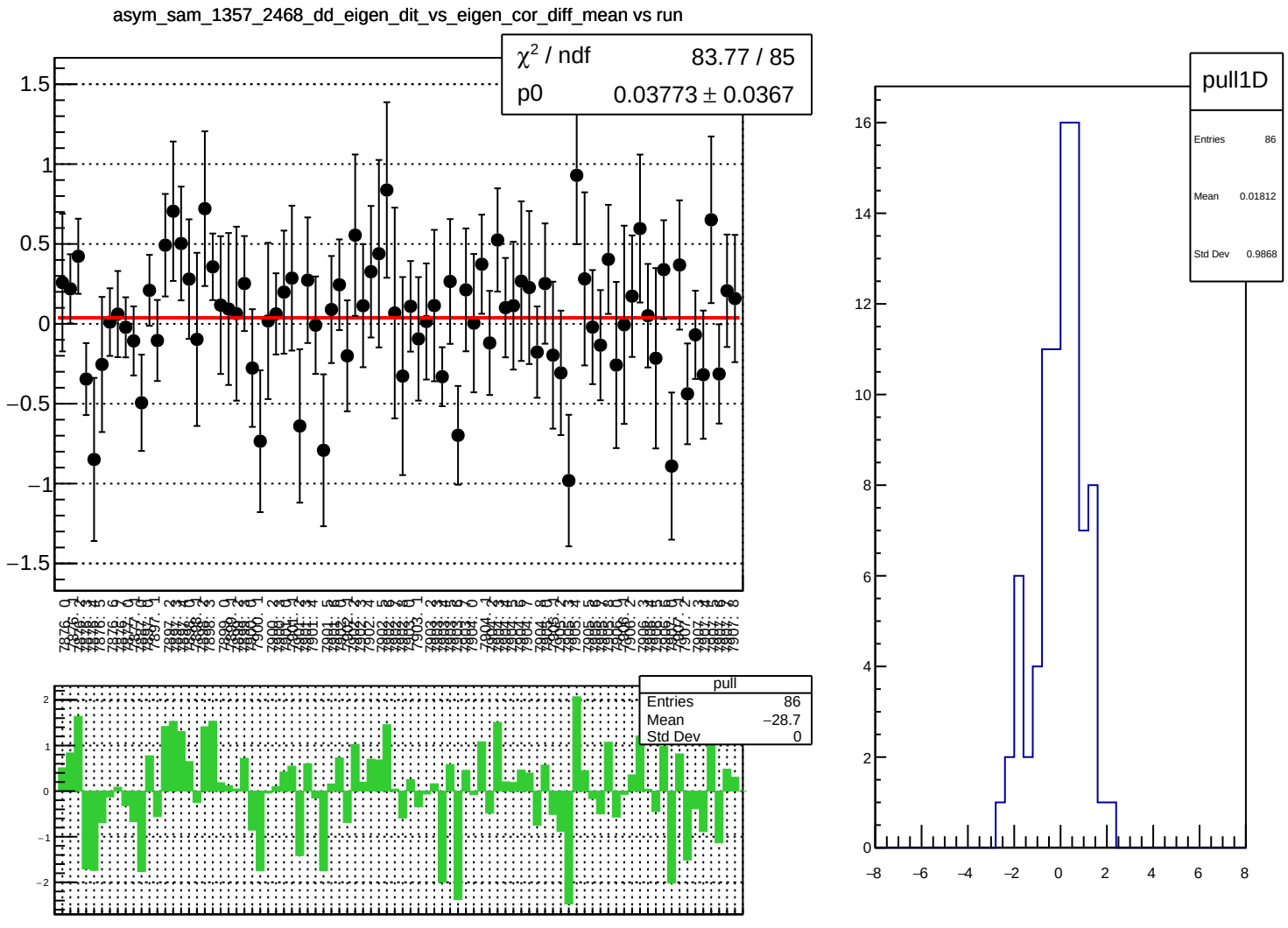

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.67 / 85
p0 2.516e−06 ± 1.106e−06
pull
Entries 86
Mean −438.5
Std Dev 0

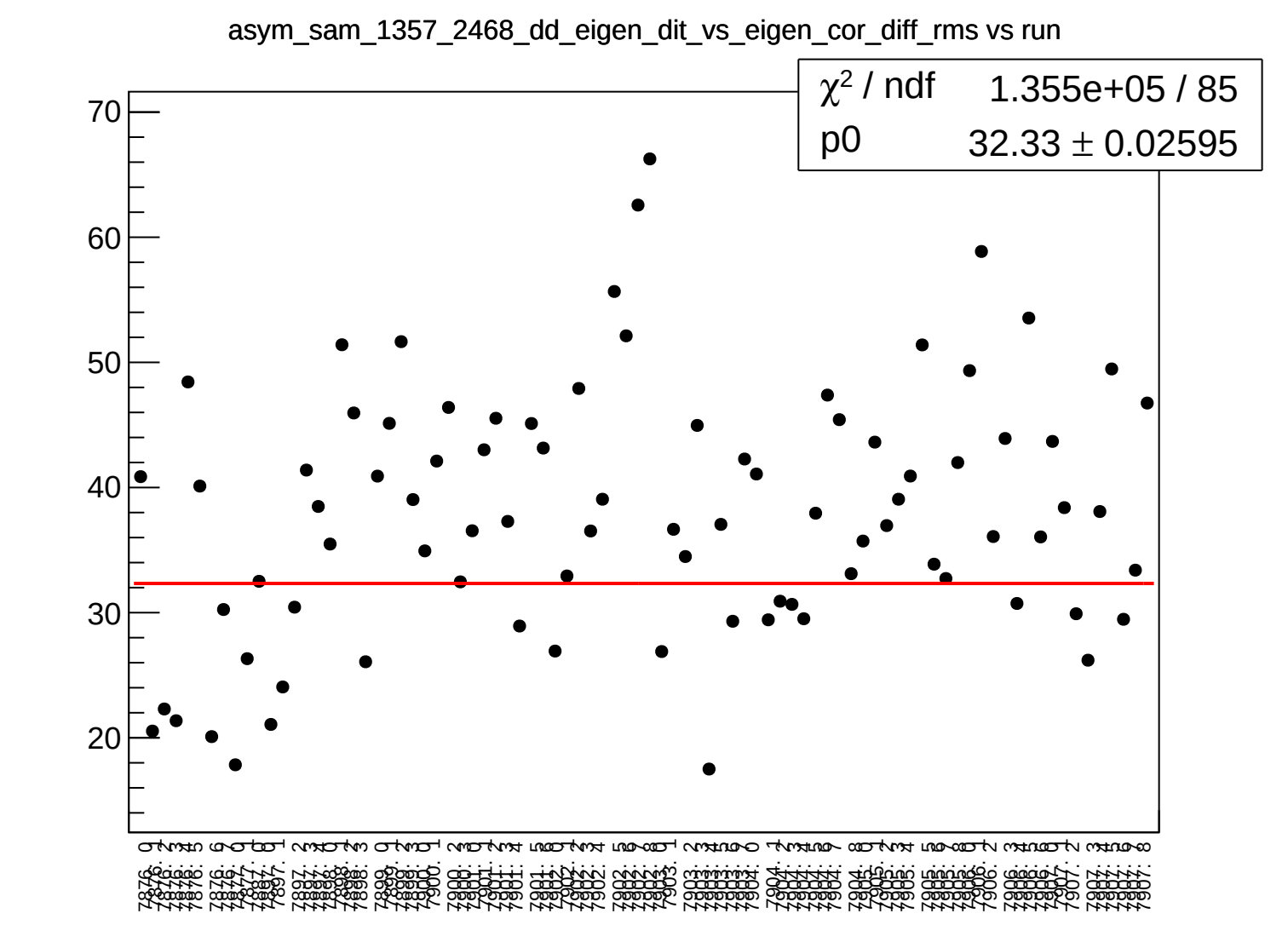

pull1D
Entries 86
Mean 0.007752
Std Dev 0.9981

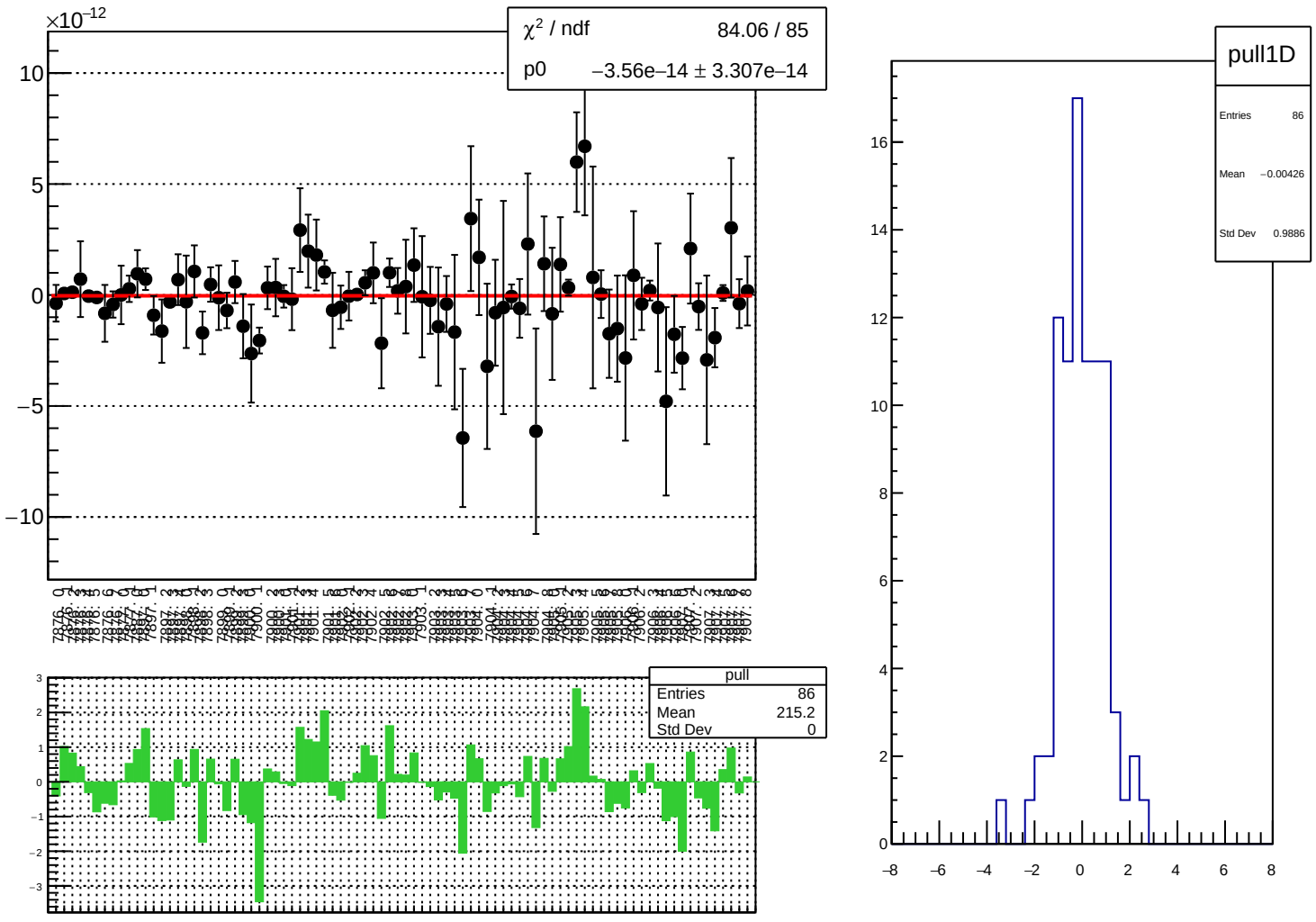

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.5e+04 / 85
p0 0.001005 ± 7.818e−07
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

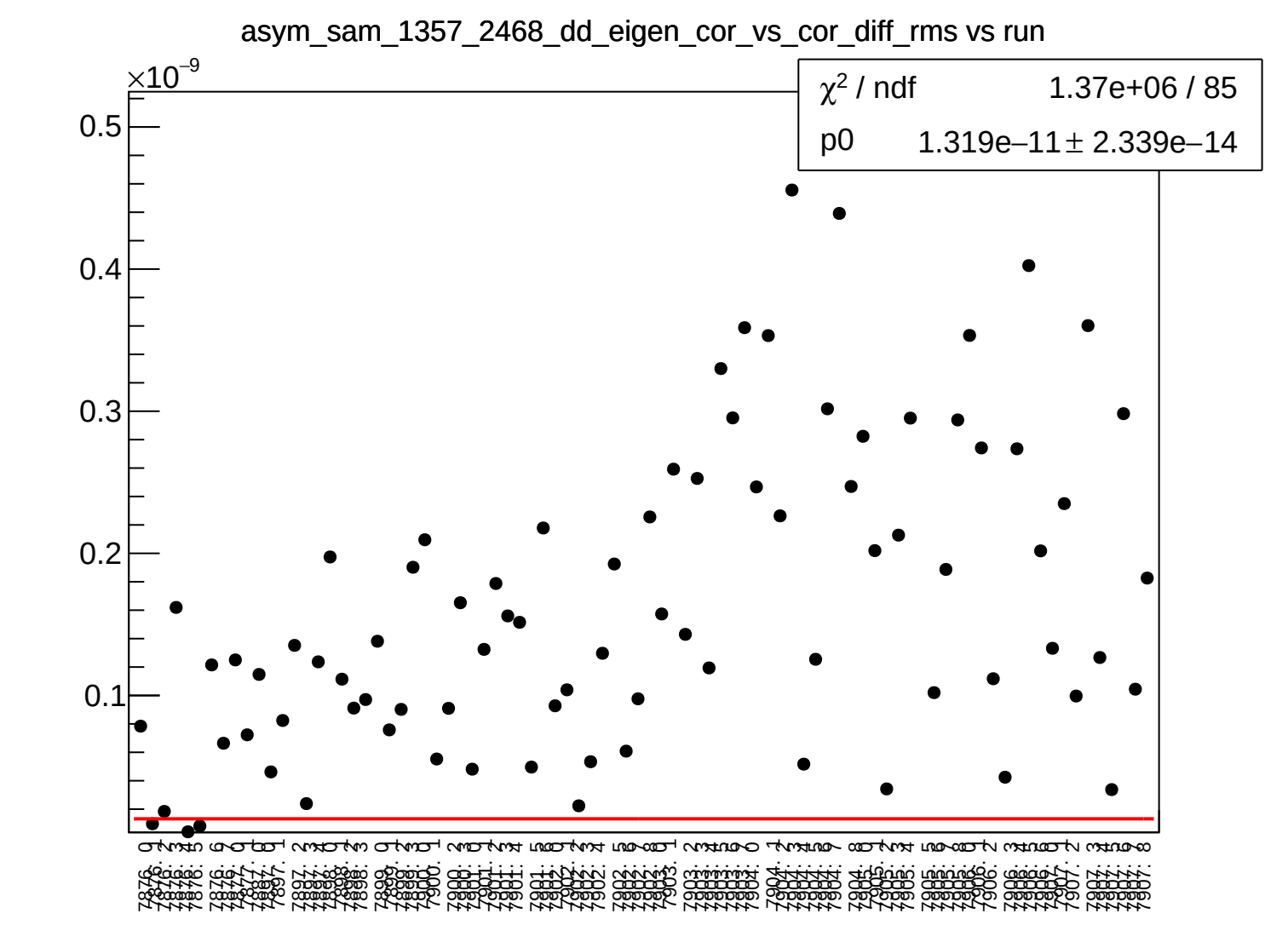

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.77 / 85
p0 0.03773 ± 0.0367
pull
Entries 86
Mean −28.7
Std Dev 0
pull1D
Entries 86
Mean 0.01812
Std Dev 0.9868

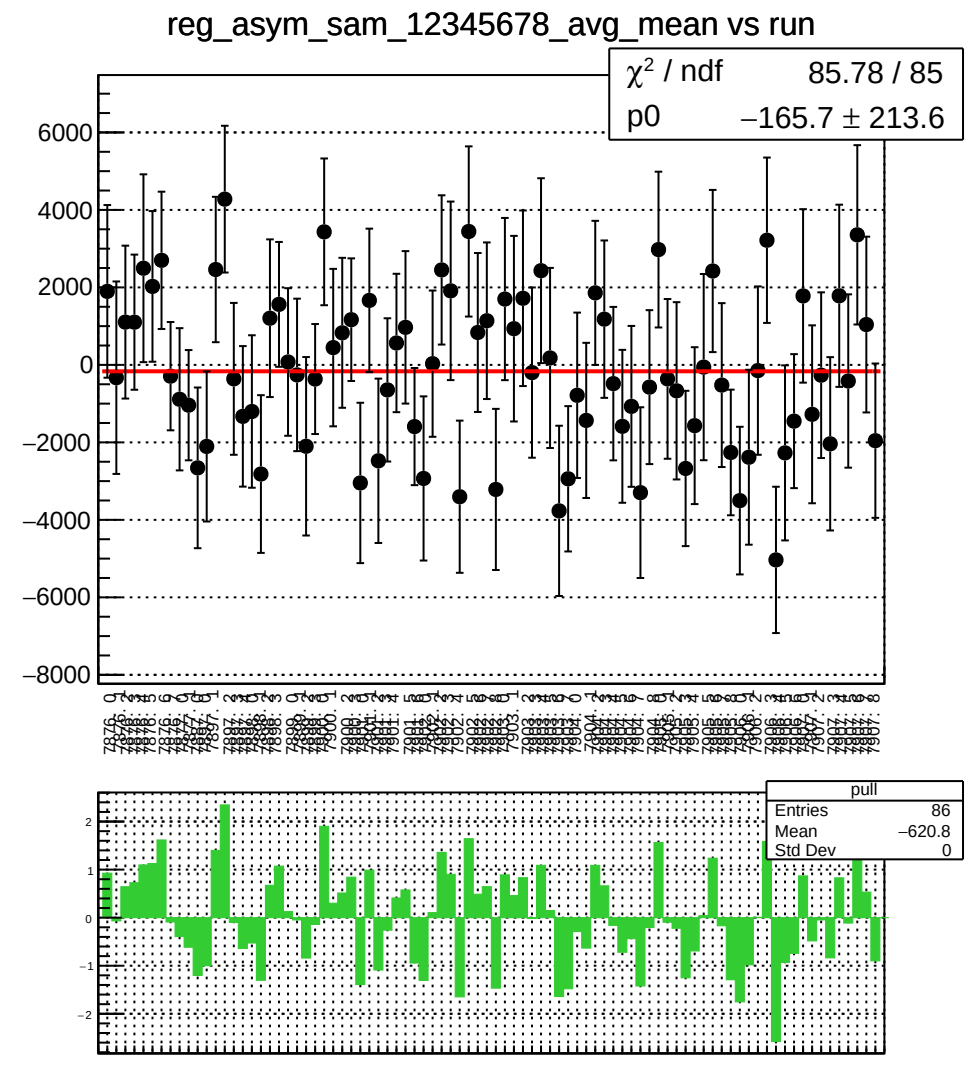

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 85
p0 32.33 ± 0.02595
70
60
50
40
30
20

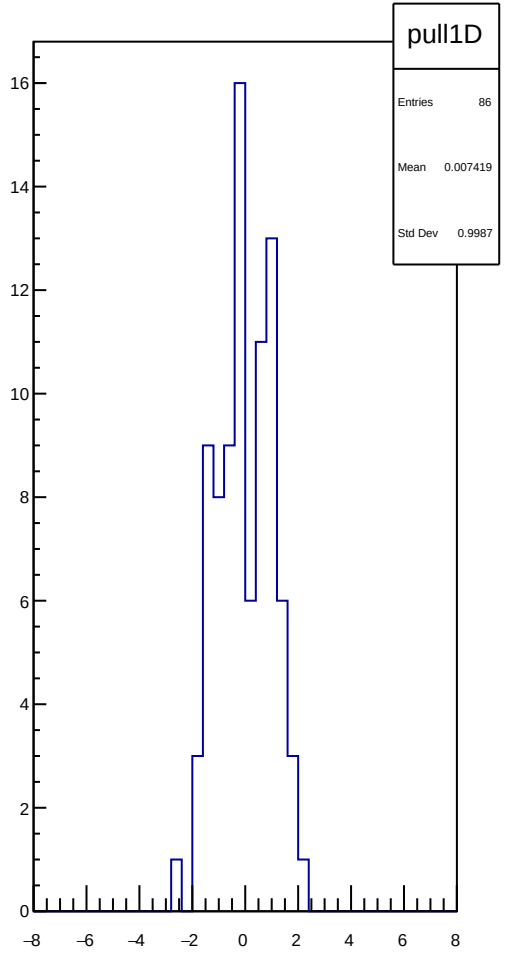

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.77 / 85
p0 0.03773 ± 0.0367
pull
Entries 86
Mean −28.7
Std Dev 0
pull1D
Entries 86
Mean 0.01812
Std Dev 0.9868

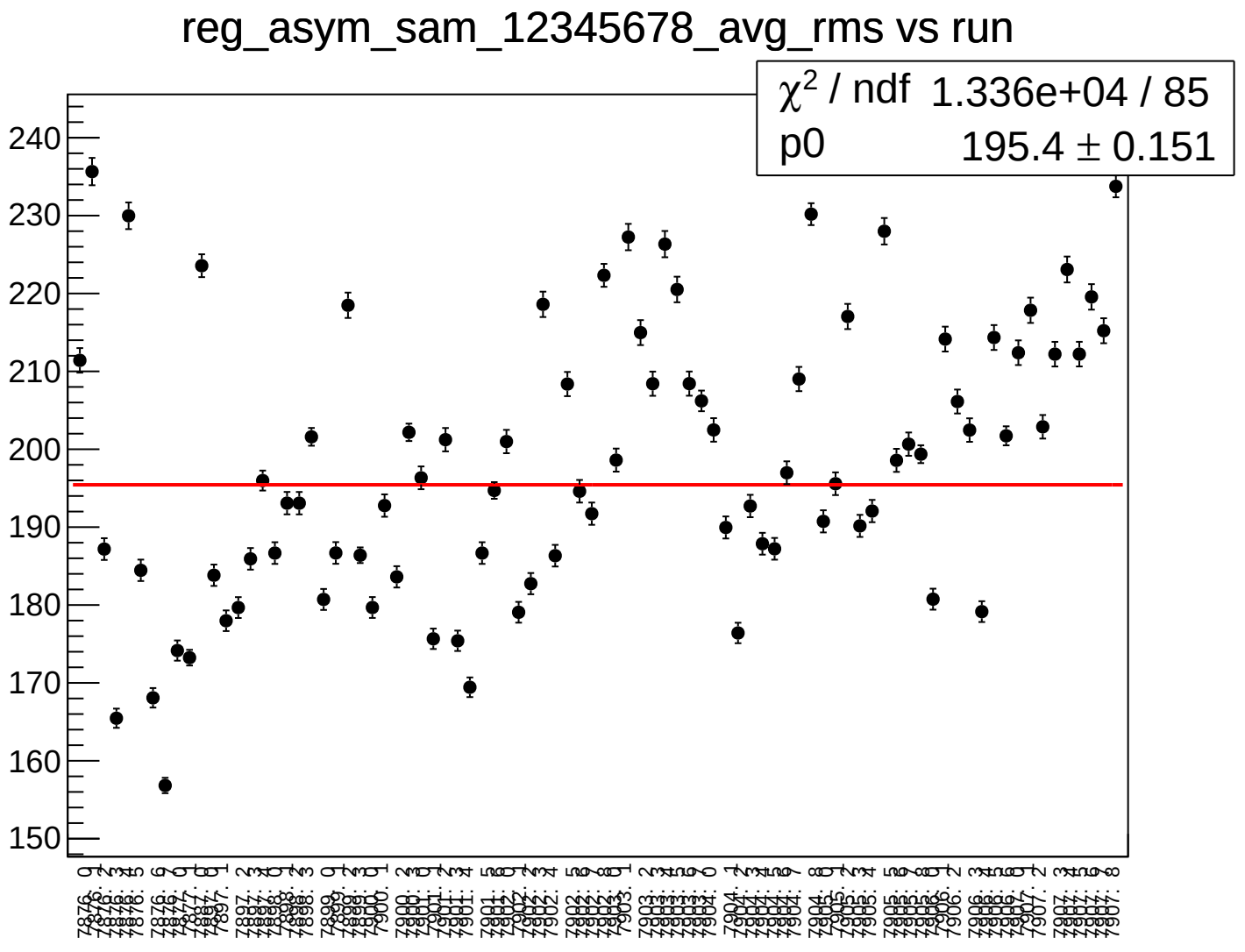

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 85
p0 32.33 ± 0.02595
70
60
50
40
30
20

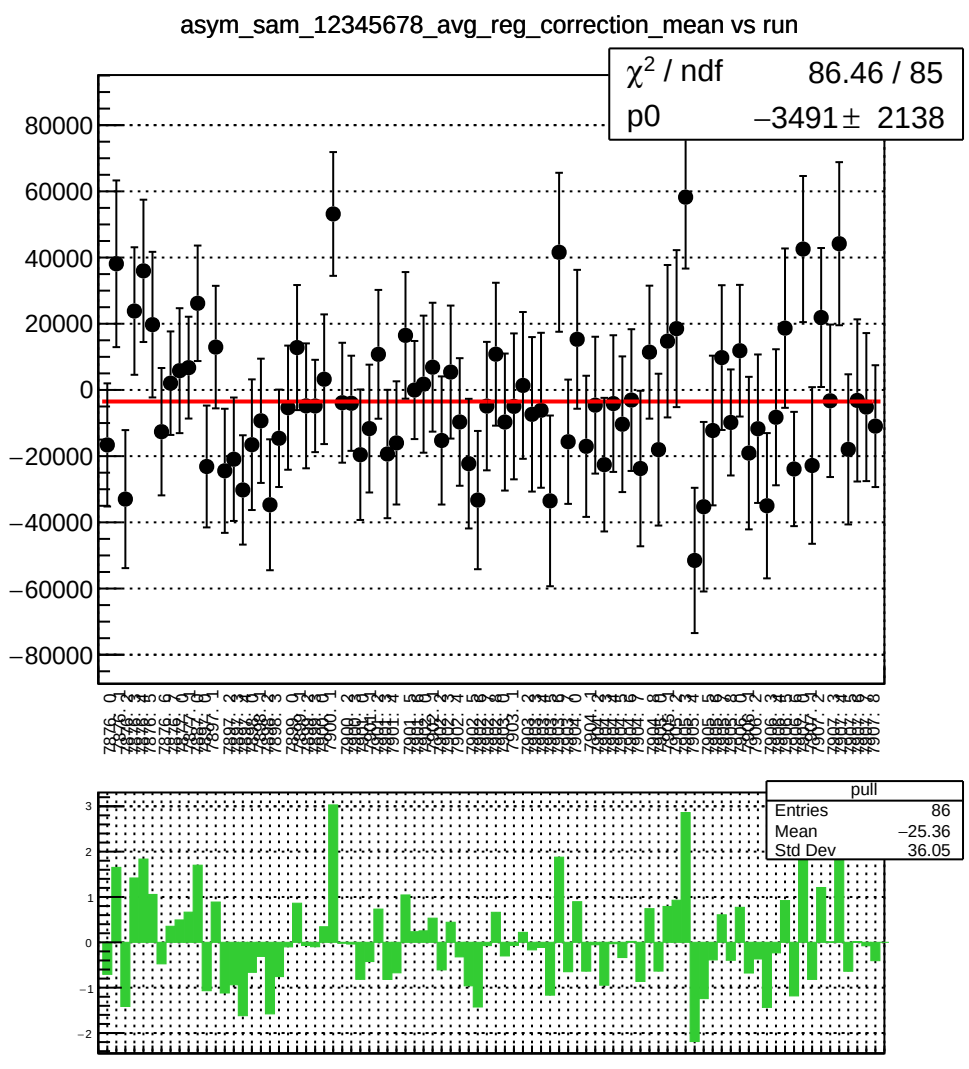

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.06 / 85
p0 −3.56e−14 ± 3.307e−14
pull
Entries 86
Mean 215.2
Std Dev 0
pull1D
Entries 86
Mean −0.00426
Std Dev 0.9886

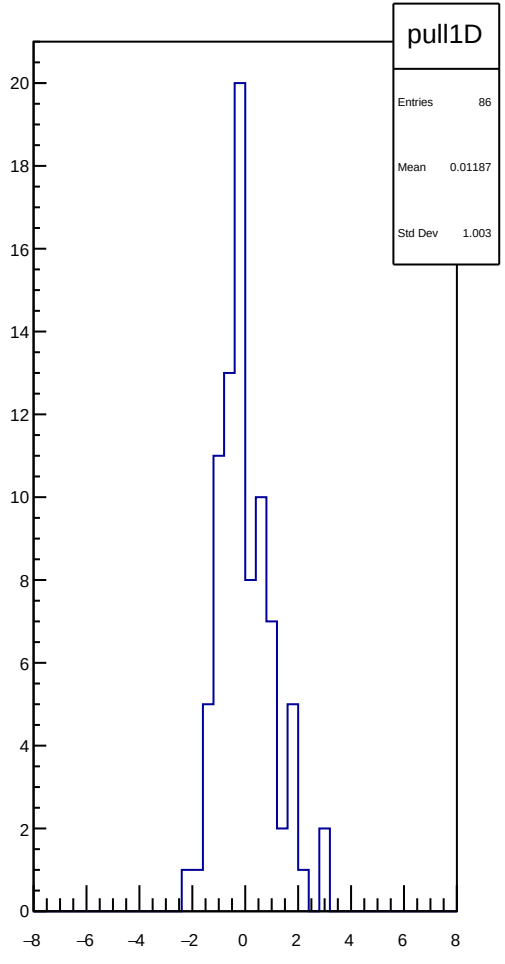

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.37e+06 / 85
p0 1.319e−11 ± 2.339e−14
0.5
0.4
0.3
0.2
0.1

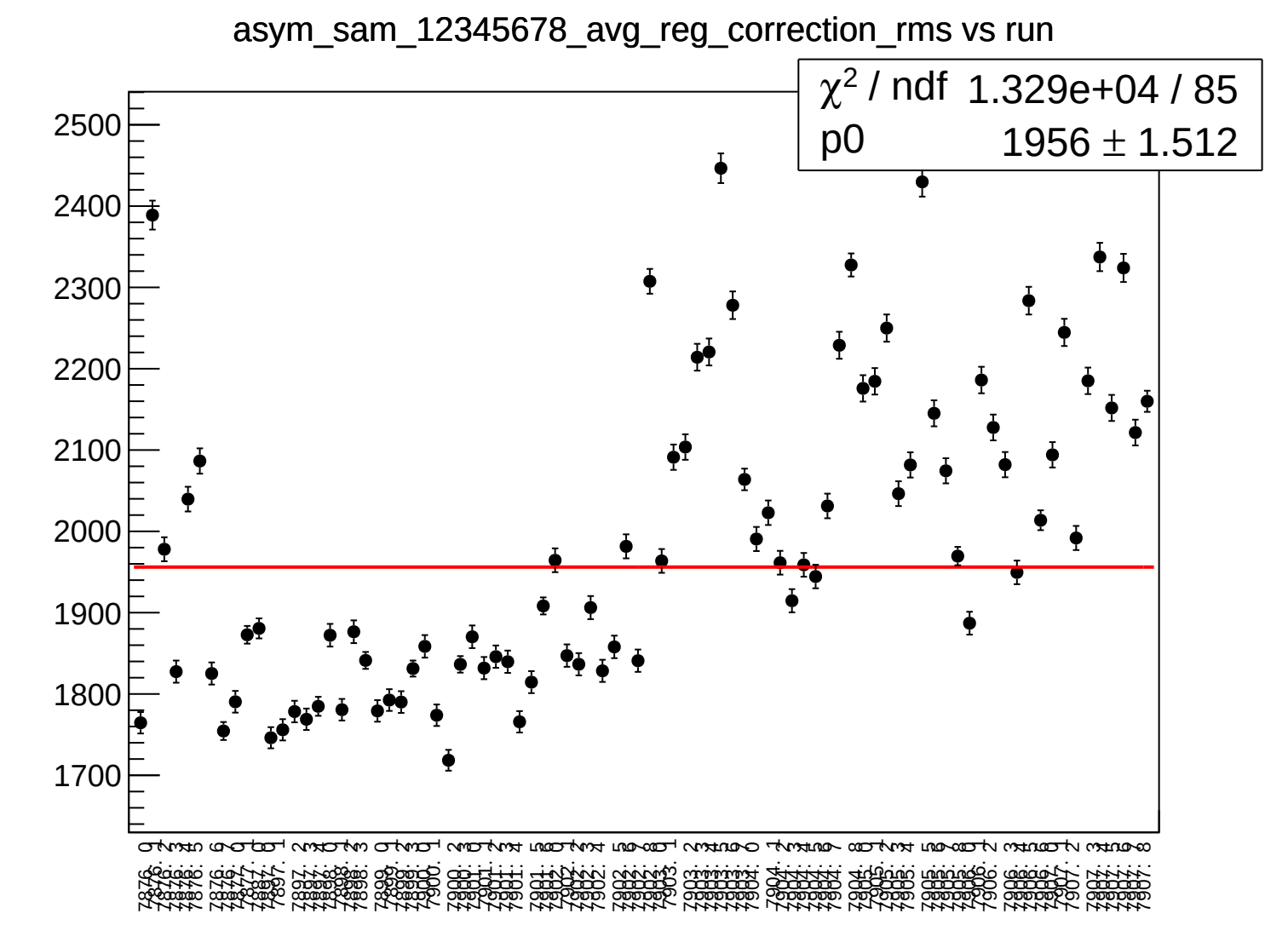

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.78 / 85
p0 −165.7 ± 213.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −620.8
Std Dev 0
2
1
0
−1
−2

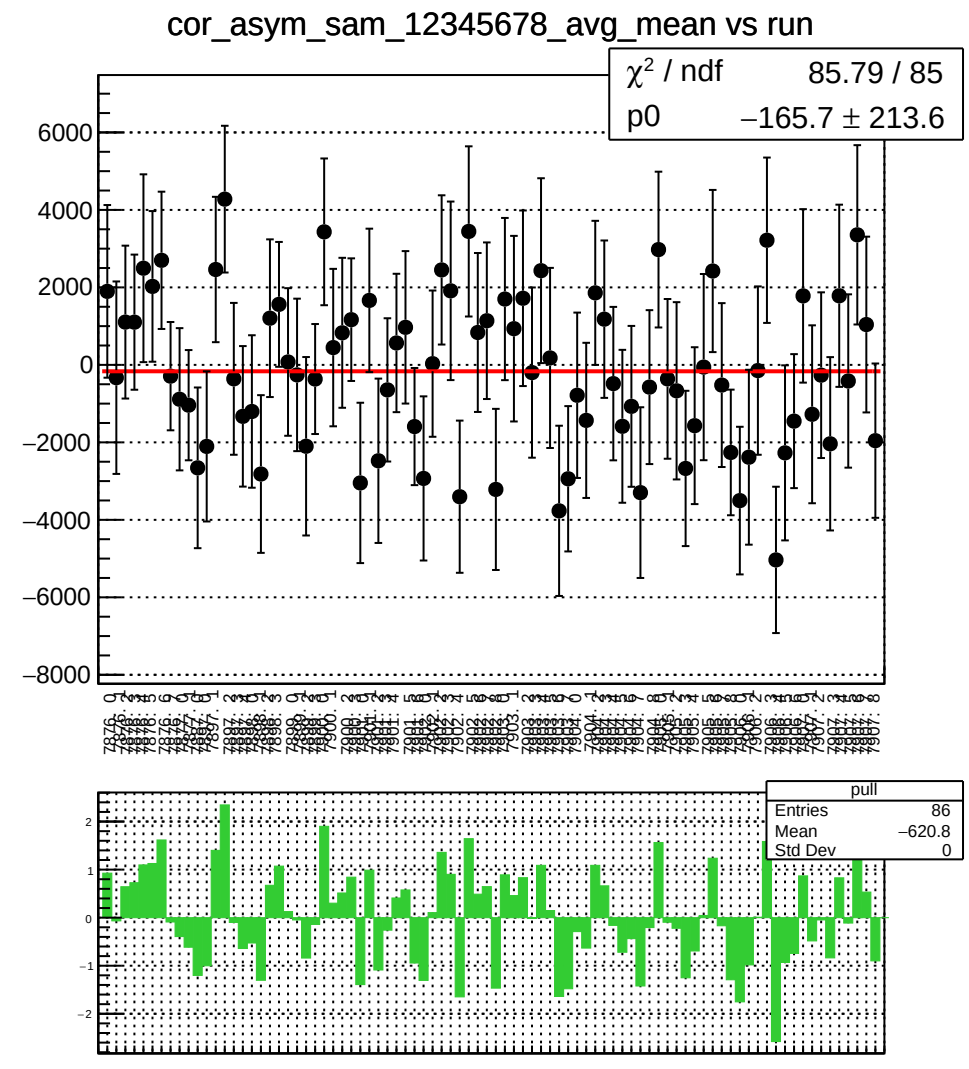

pull1D
Entries 86
Mean 0.007419
Std Dev 0.9987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

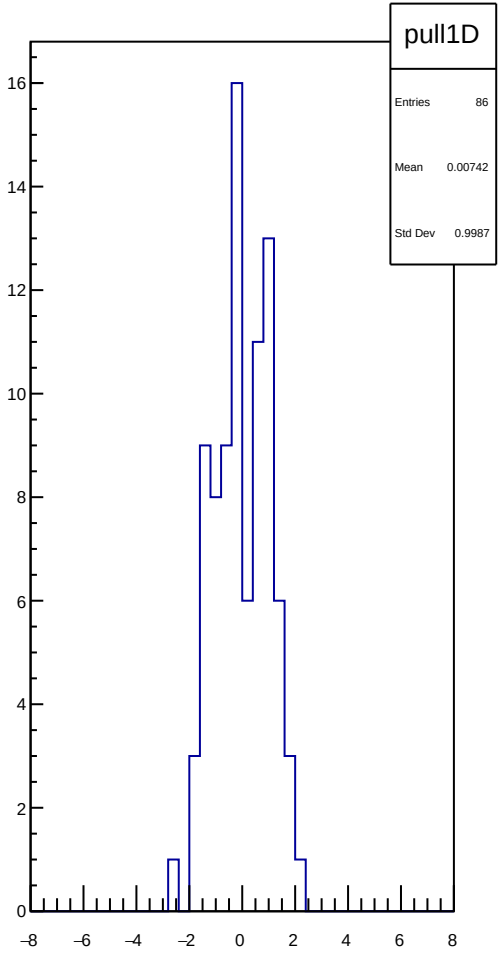

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.336e+04 / 85
p0 195.4 ± 0.151
240
230
220
210
200
190
180
170
160
150

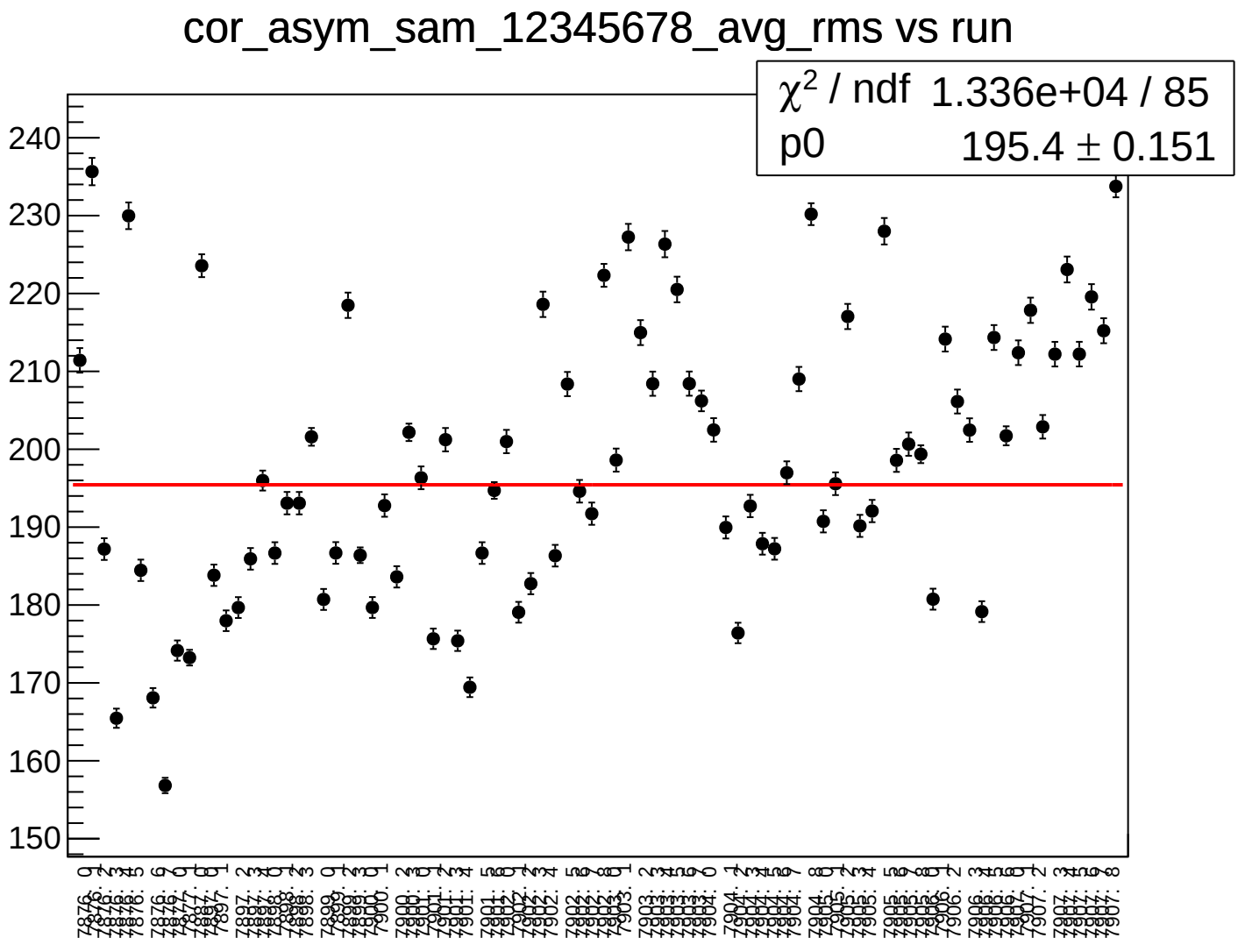

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 86.46 / 85
p0 −3491 ± 2138
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −25.36
Std Dev 36.05
3
2
1
0
−1
−2

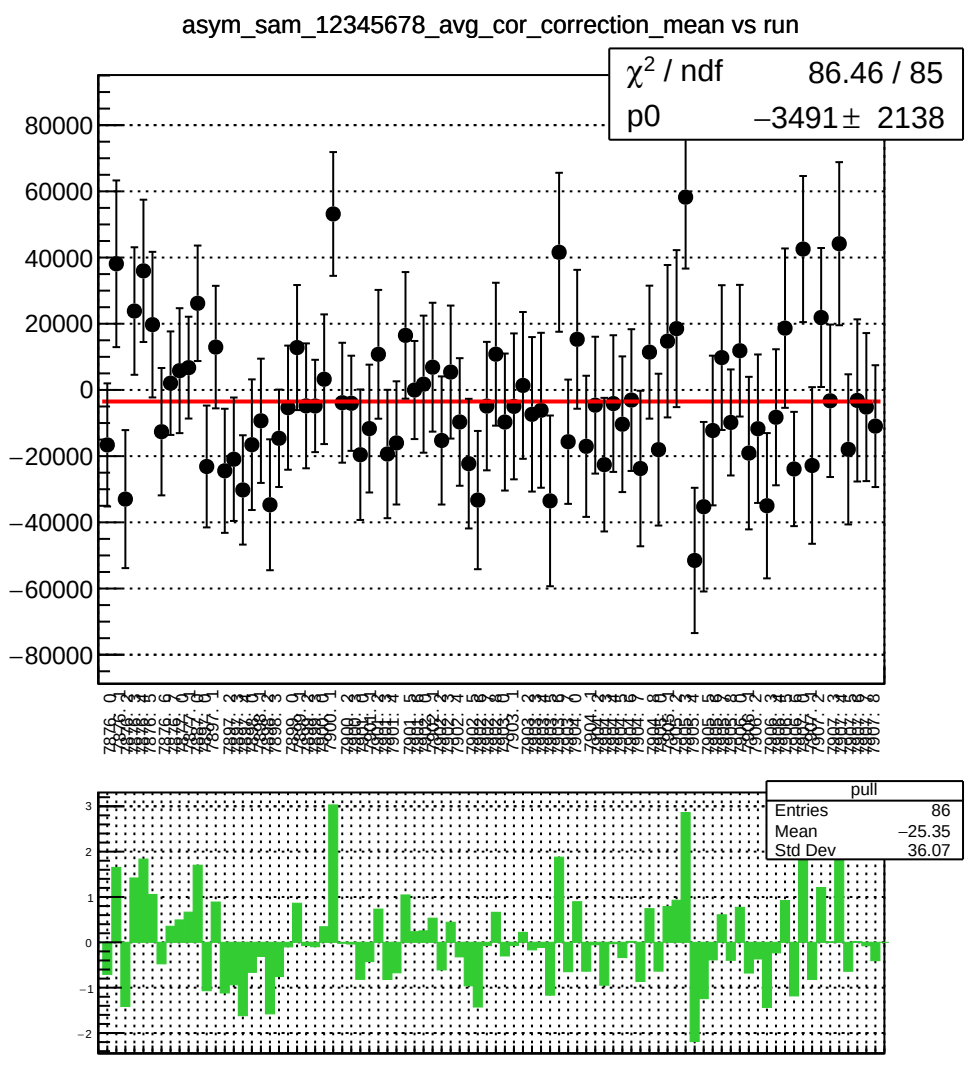

pull1D
Entries 86
Mean 0.01187
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

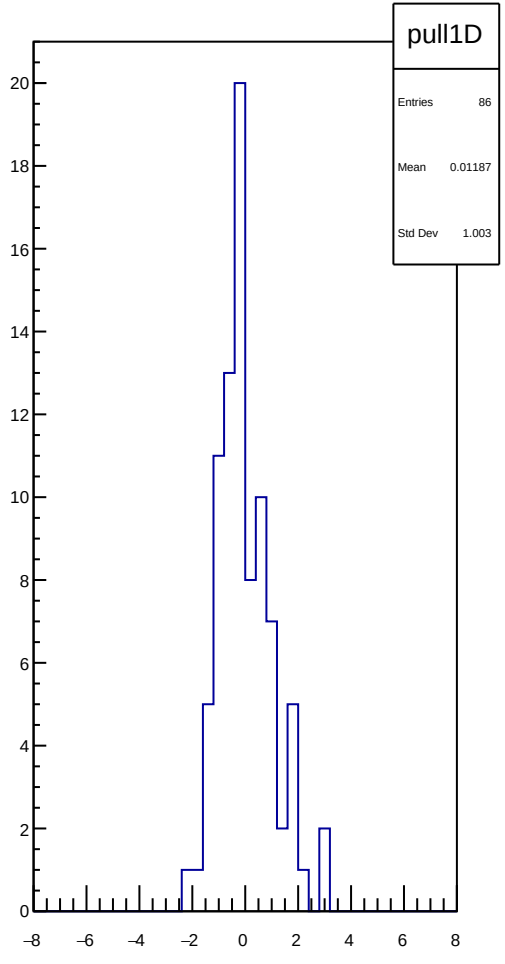

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.329e+04 / 85
p0 1956 ± 1.512
2500
2400
2300
2200
2100
2000
1900
1800
1700

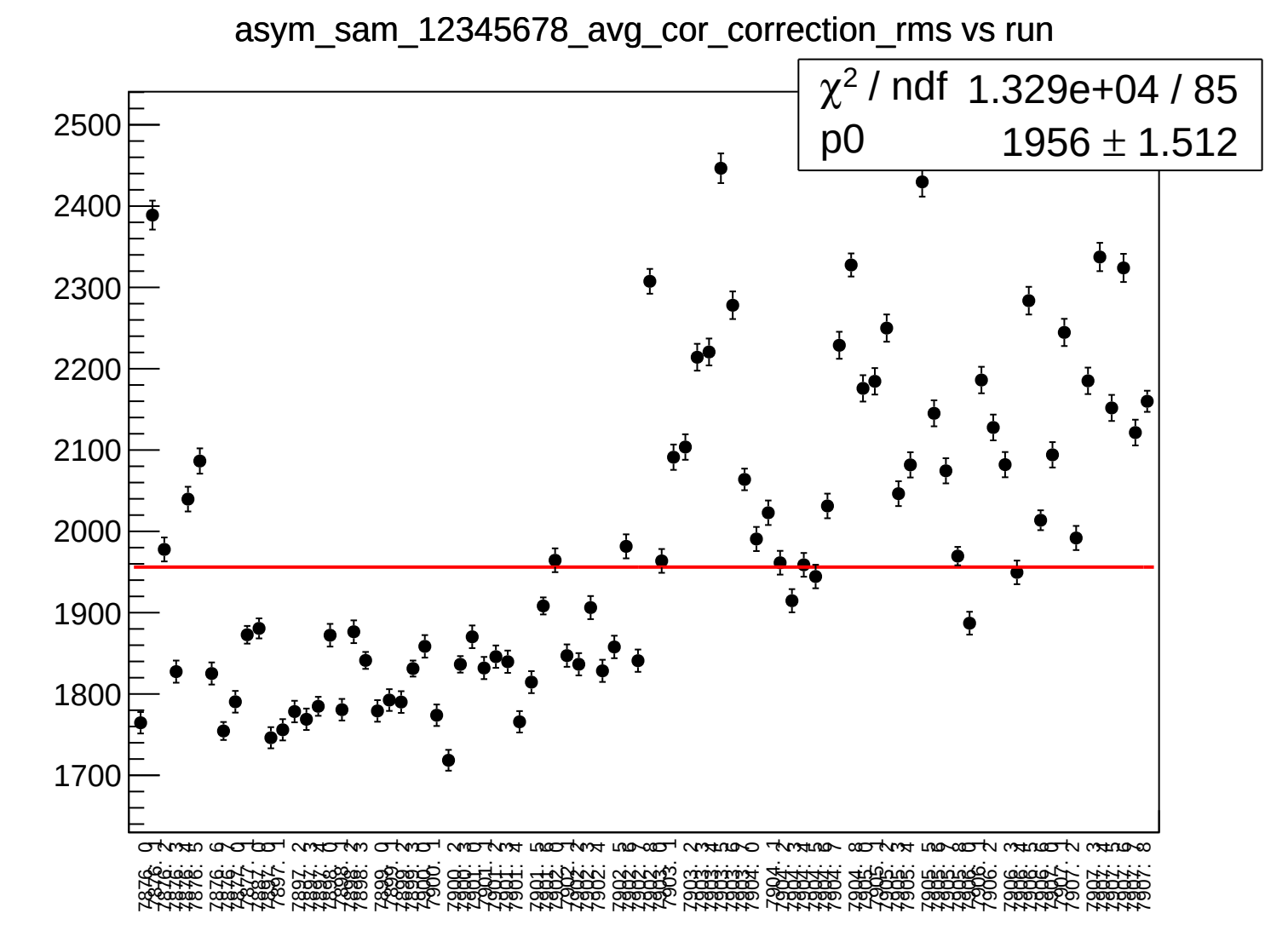

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.79 / 85
p0 −165.7 ± 213.6
pull
Entries 86
Mean −620.8
Std Dev 0

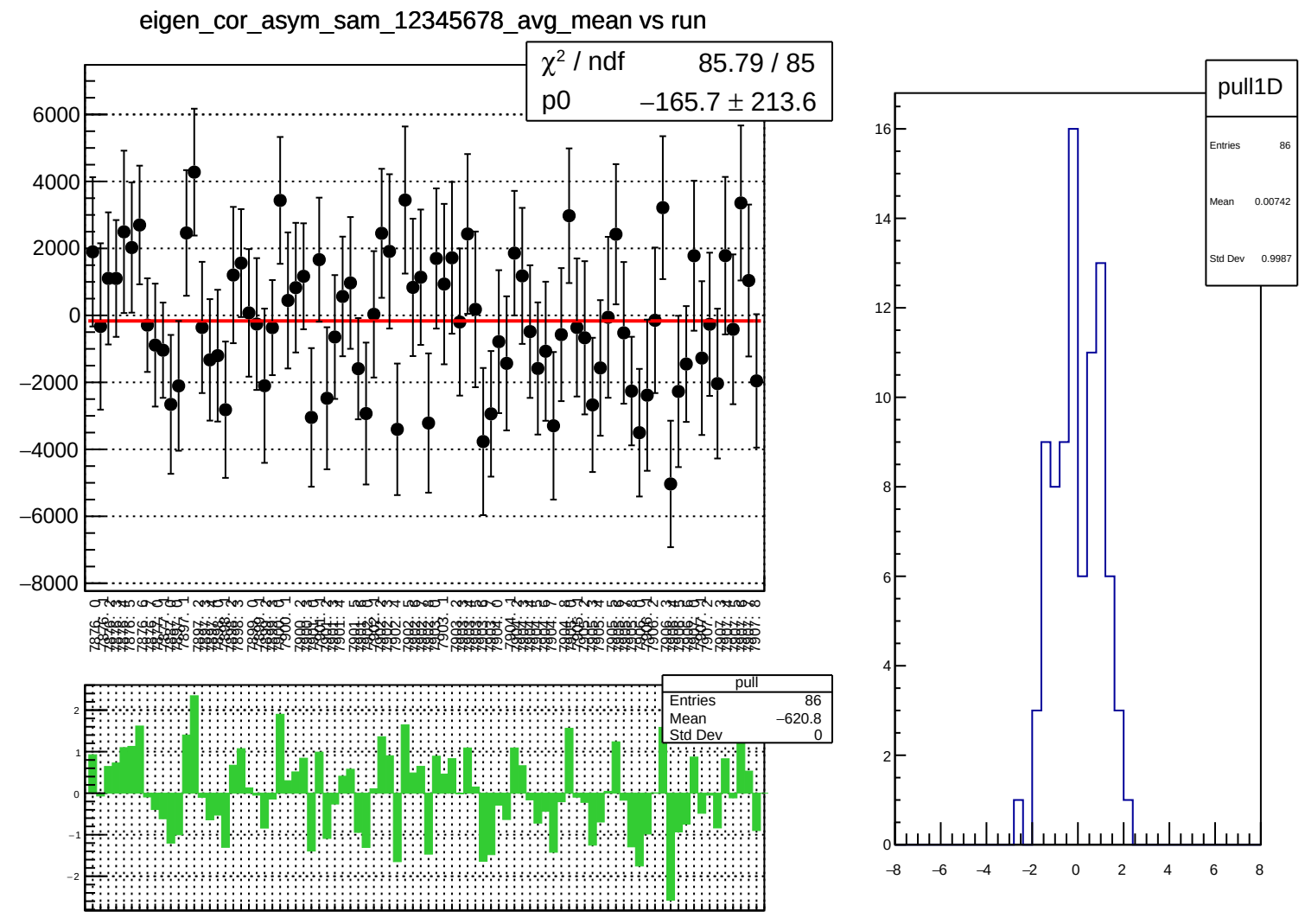

pull1D
Entries 86
Mean 0.00742
Std Dev 0.9987

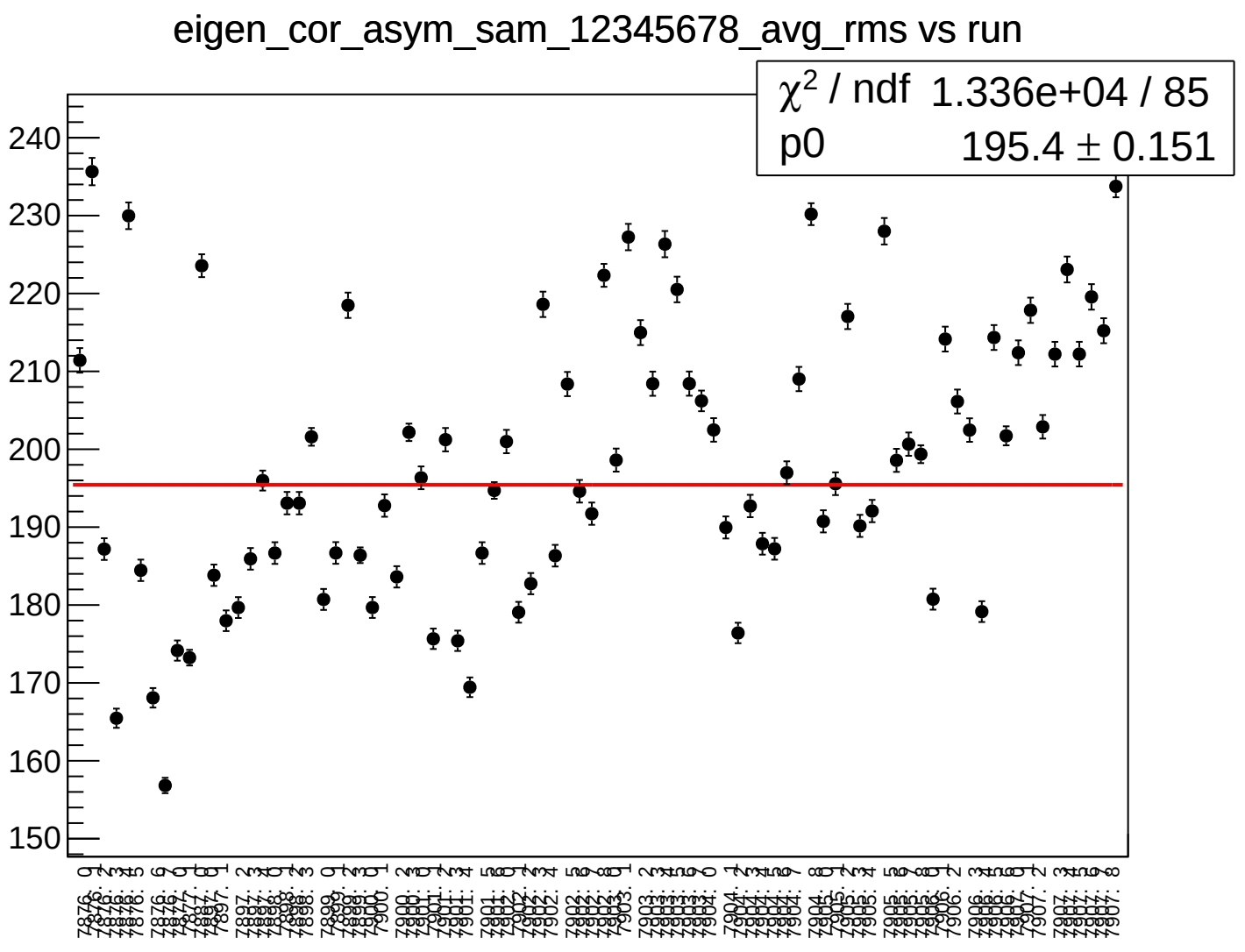

cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.336e+04 / 85
p0 195.4 ± 0.151
240
230
220
210
200
190
180
170
160
150

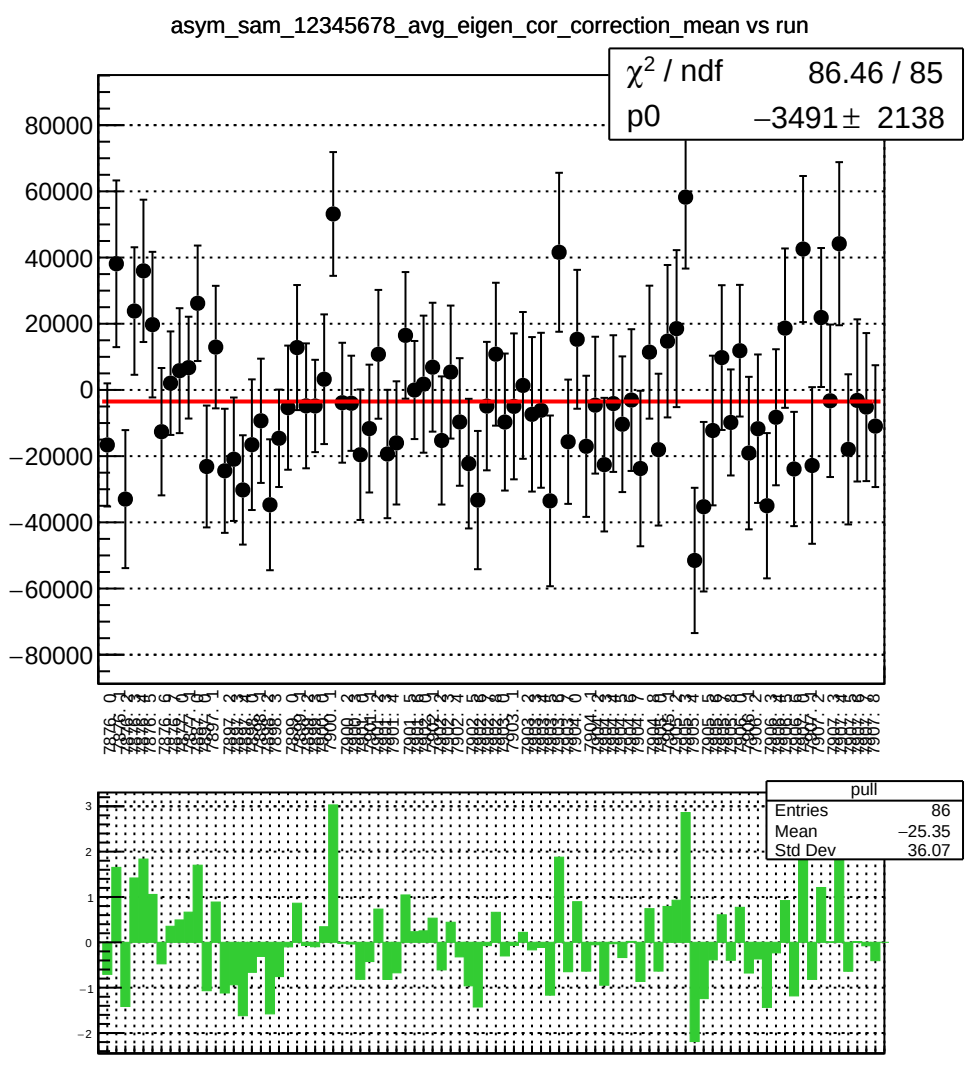

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 86.46 / 85
p0 −3491 ± 2138
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −25.35
Std Dev 36.07
3
2
1
0
−1
−2

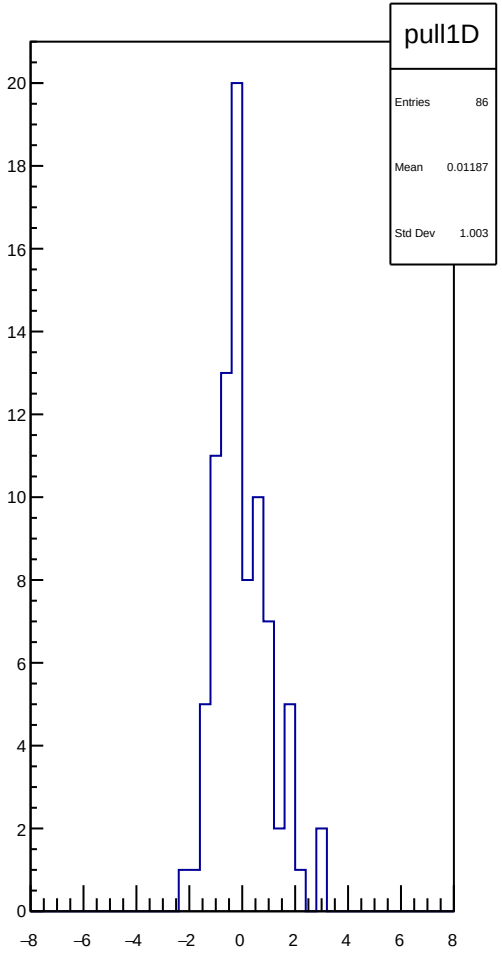

pull1D
Entries 86
Mean 0.01187
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

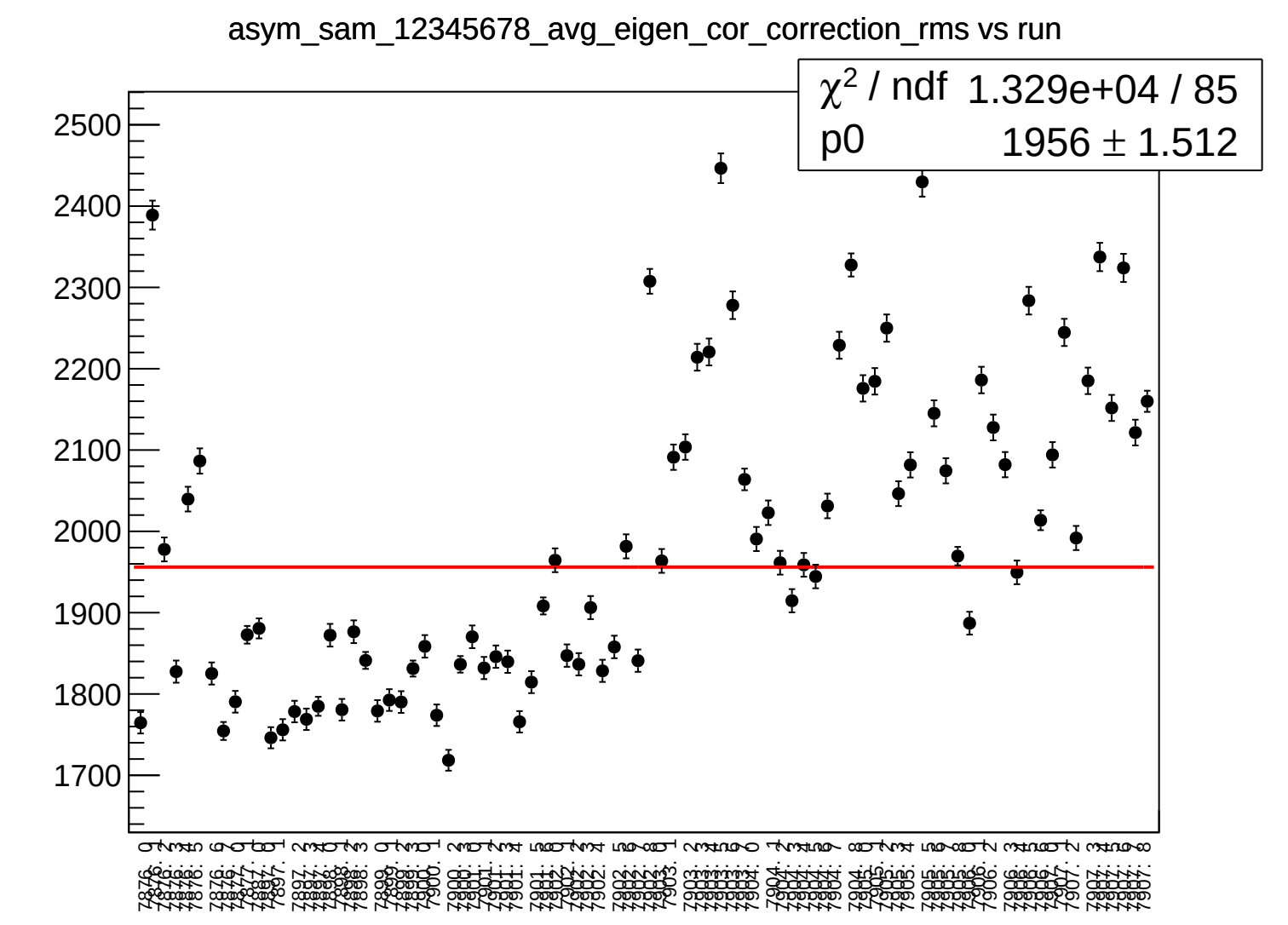

asym_sam_12345678_avg_cor_correction_rms vs run
χ^2 / ndf 1.329e+04 / 85
p0 1956 ± 1.512
2500
2400
2300
2200
2100
2000
1900
1800
1700

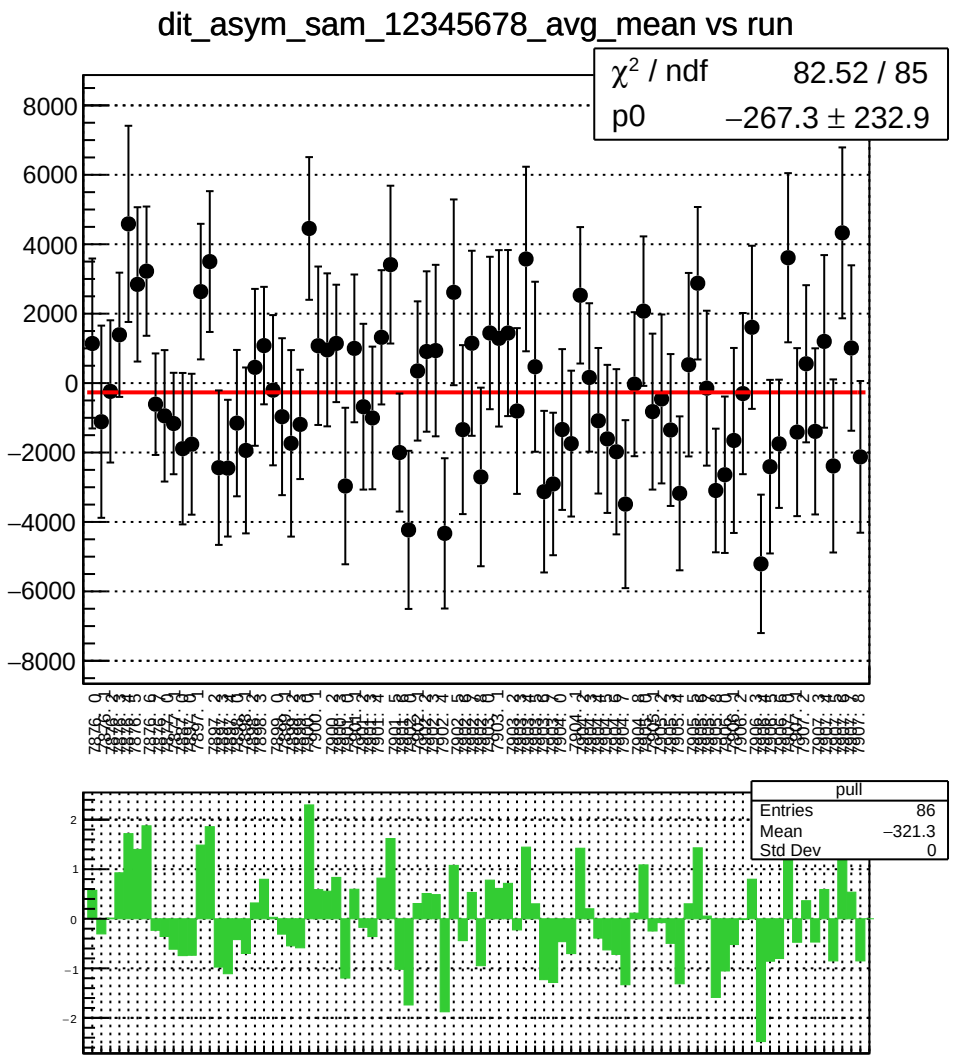

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.79 / 85
p0 −165.7 ± 213.6
pull
Entries 86
Mean −620.8
Std Dev 0
pull1D
Entries 86
Mean 0.00742
Std Dev 0.9987

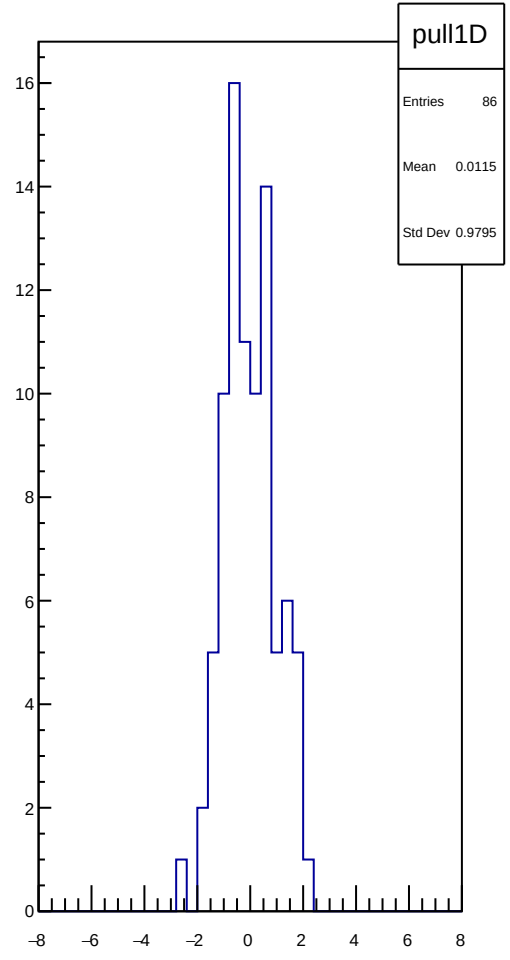

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.336e+04 / 85
p0 195.4 ± 0.151
240
230
220
210
200
190
180
170
160
150

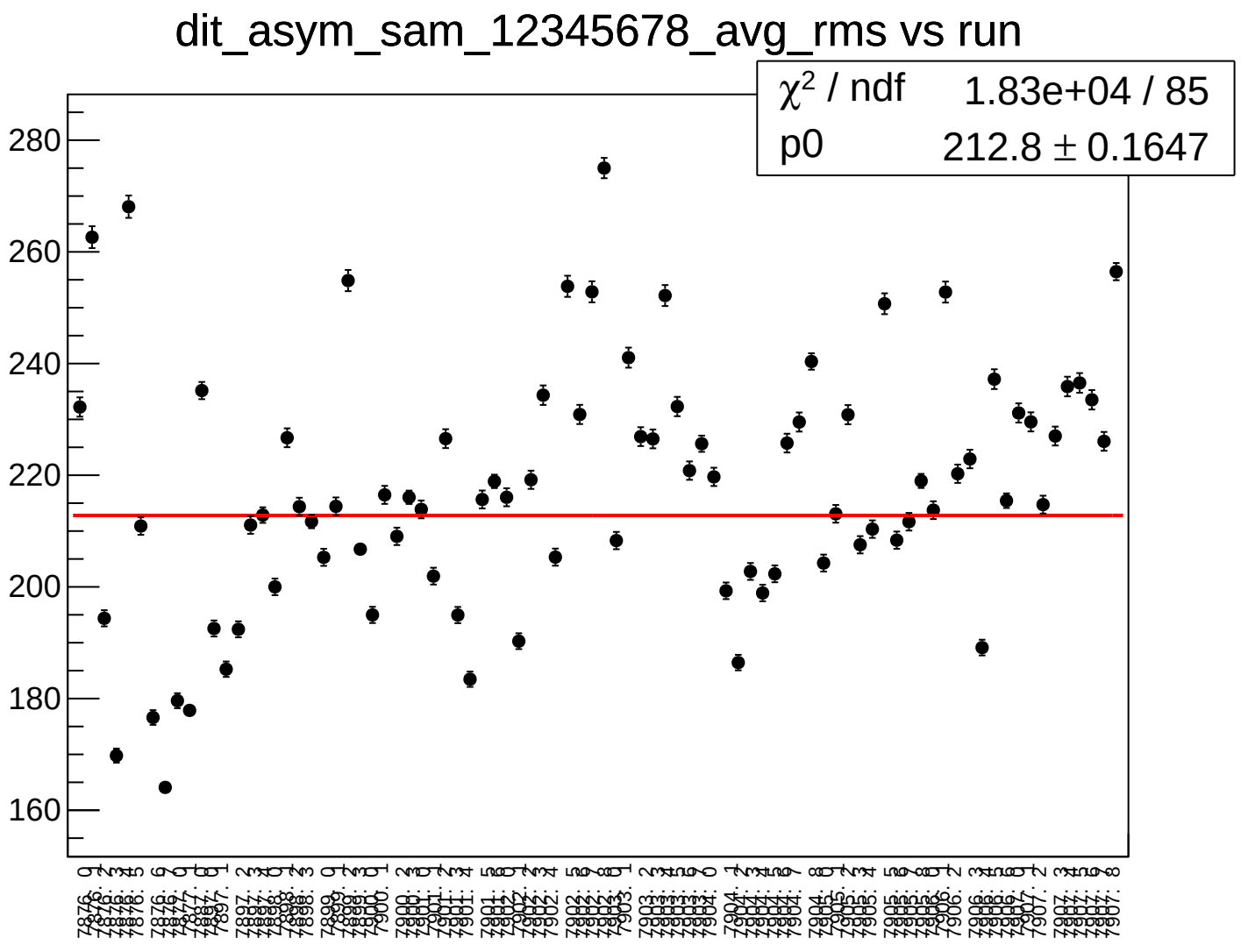

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.46 / 85
p0 −3491 ± 2138
pull
Entries 86
Mean −25.35
Std Dev 36.07

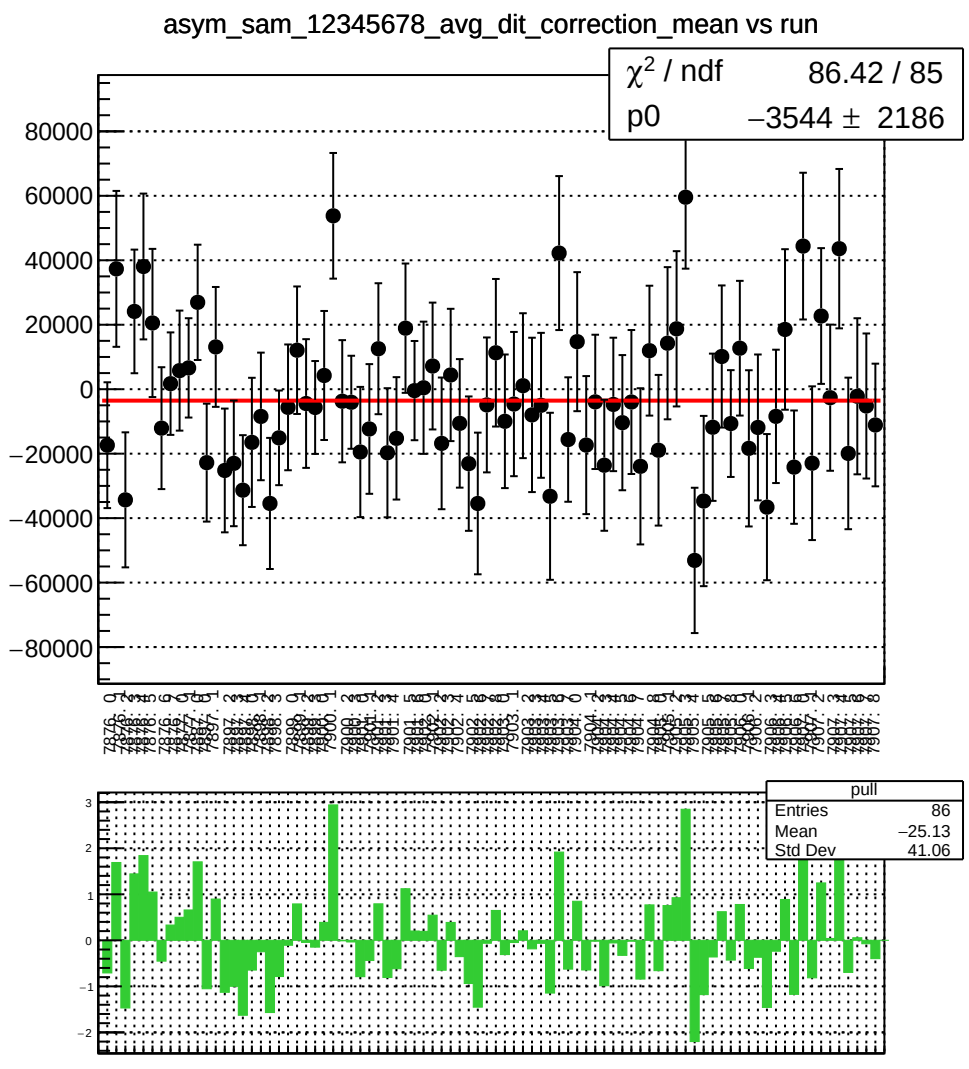

pull1D
Entries 86
Mean 0.01187
Std Dev 1.003

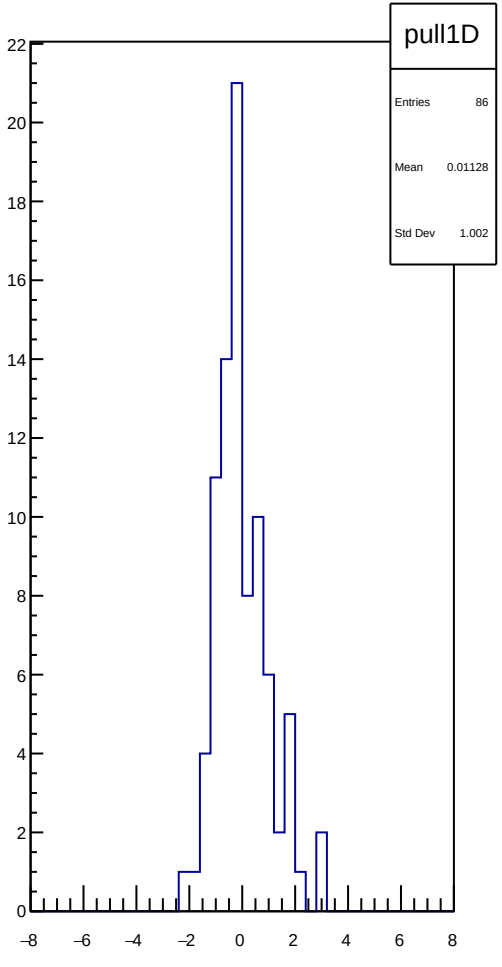

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.329e+04 / 85
p0 1956 ± 1.512
2500
2400
2300
2200
2100
2000
1900
1800
1700

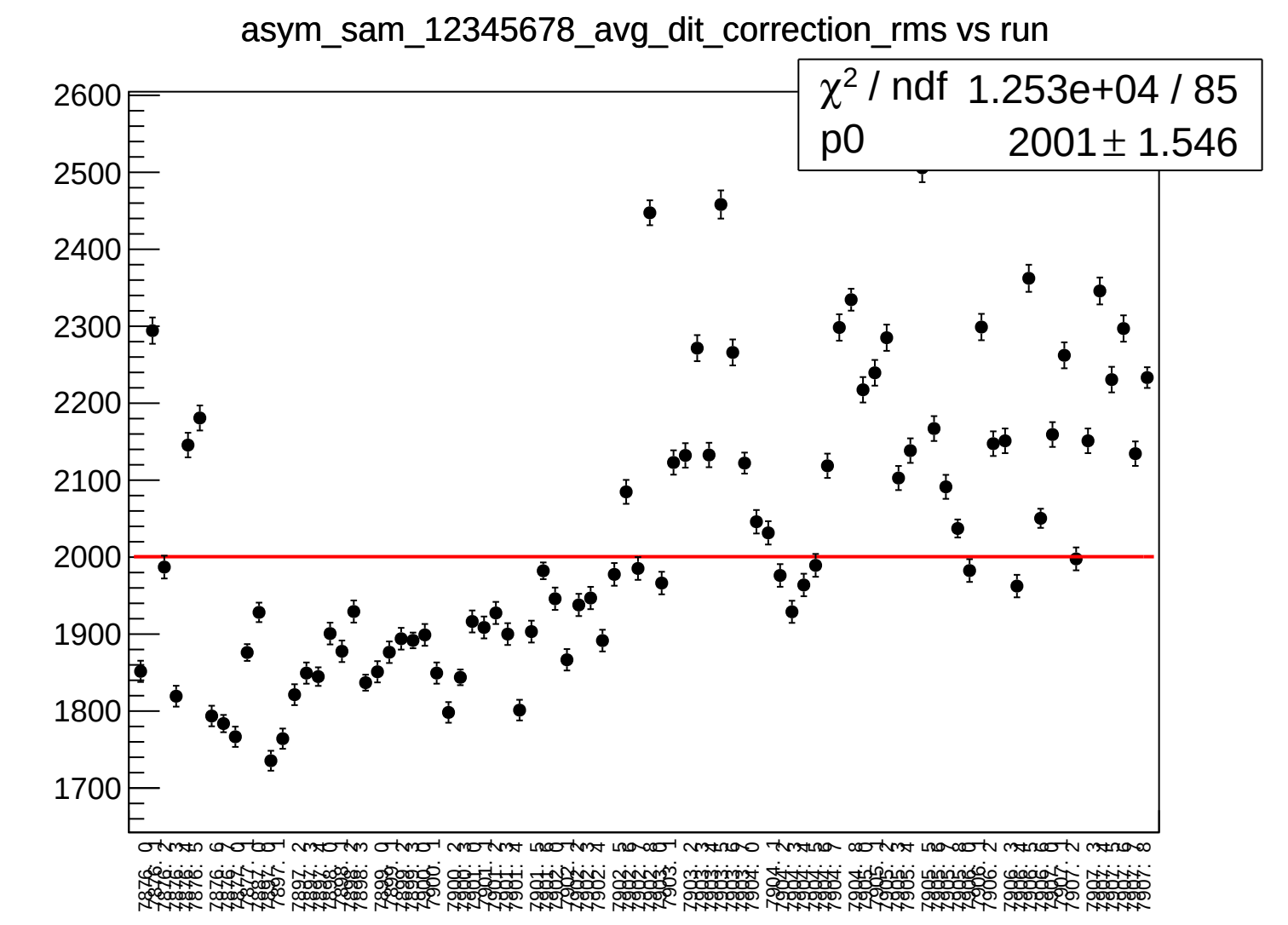

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 82.52 / 85
p0 −267.3 ± 232.9
pull
Entries 86
Mean −321.3
Std Dev 0

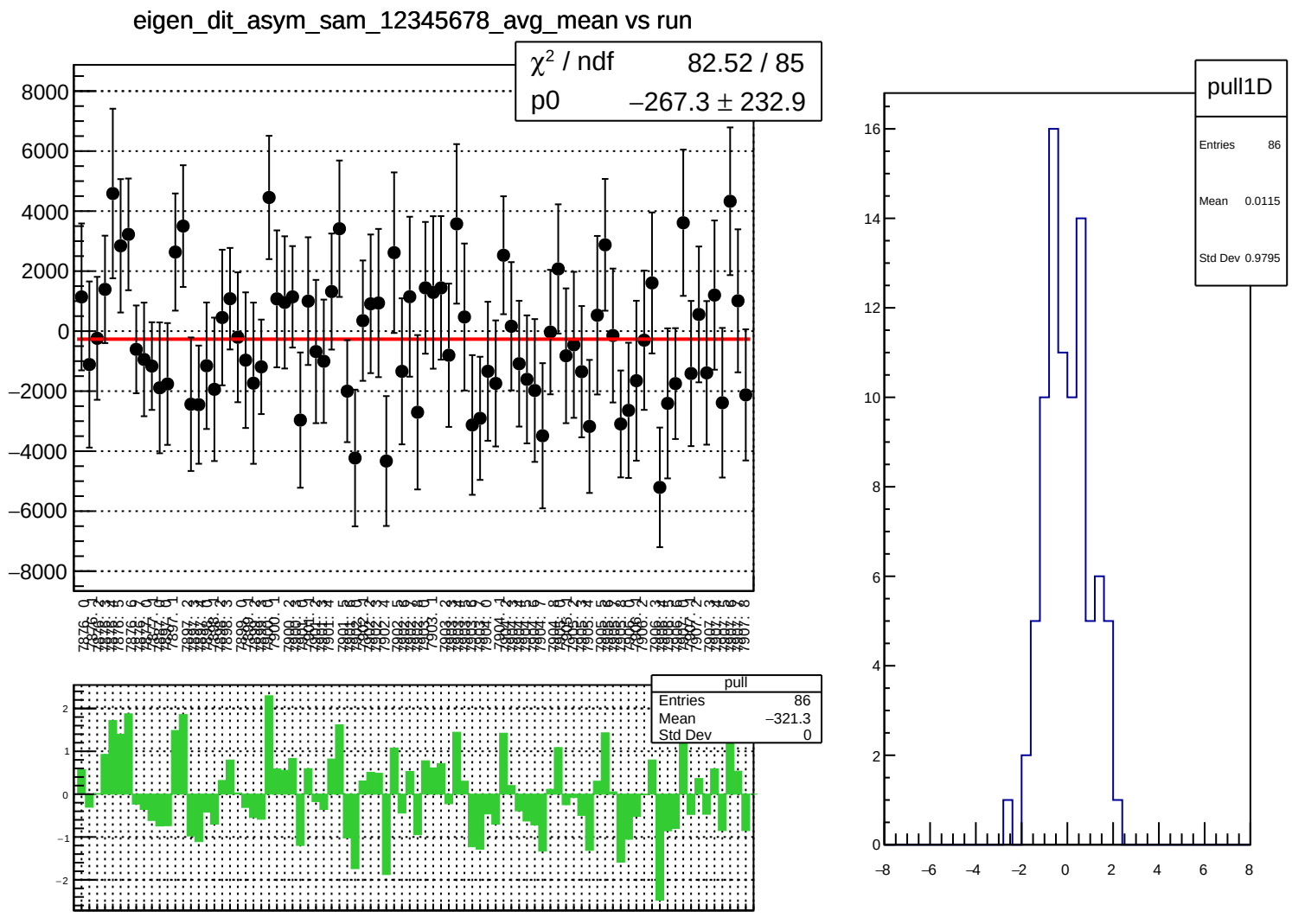

pull1D
Entries 86
Mean 0.0115
Std Dev 0.9795

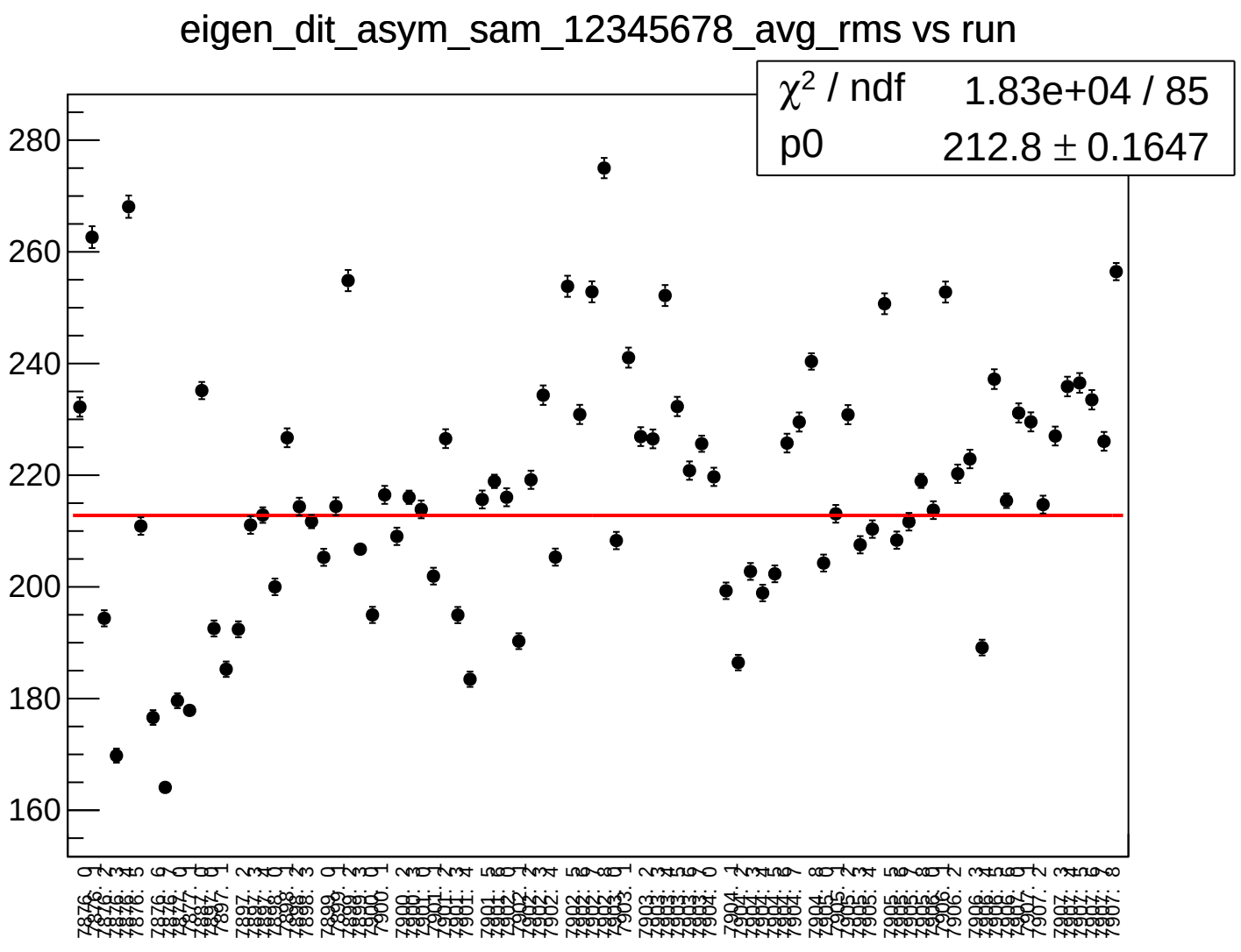

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.83e+04 / 85
p0 212.8 ± 0.1647
280
260
240
220
200
180
160

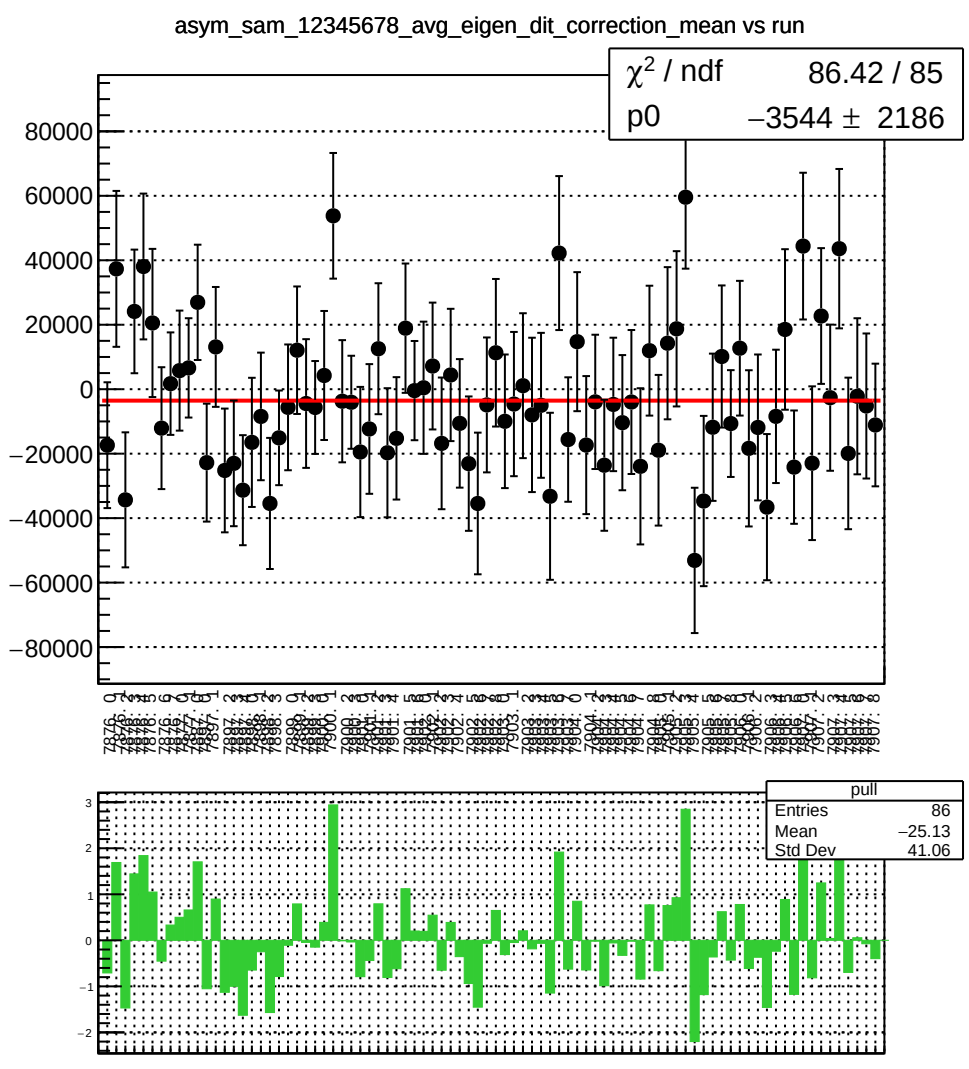

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 86.42 / 85
p0 −3544 ± 2186
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −25.13
Std Dev 41.06
3
2
1
0
−1
−2

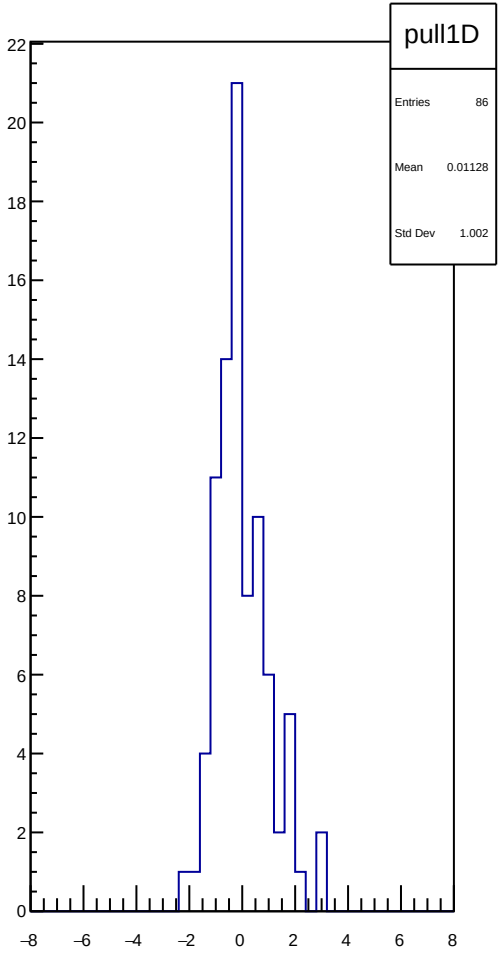

pull1D
Entries 86
Mean 0.01128
Std Dev 1.002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

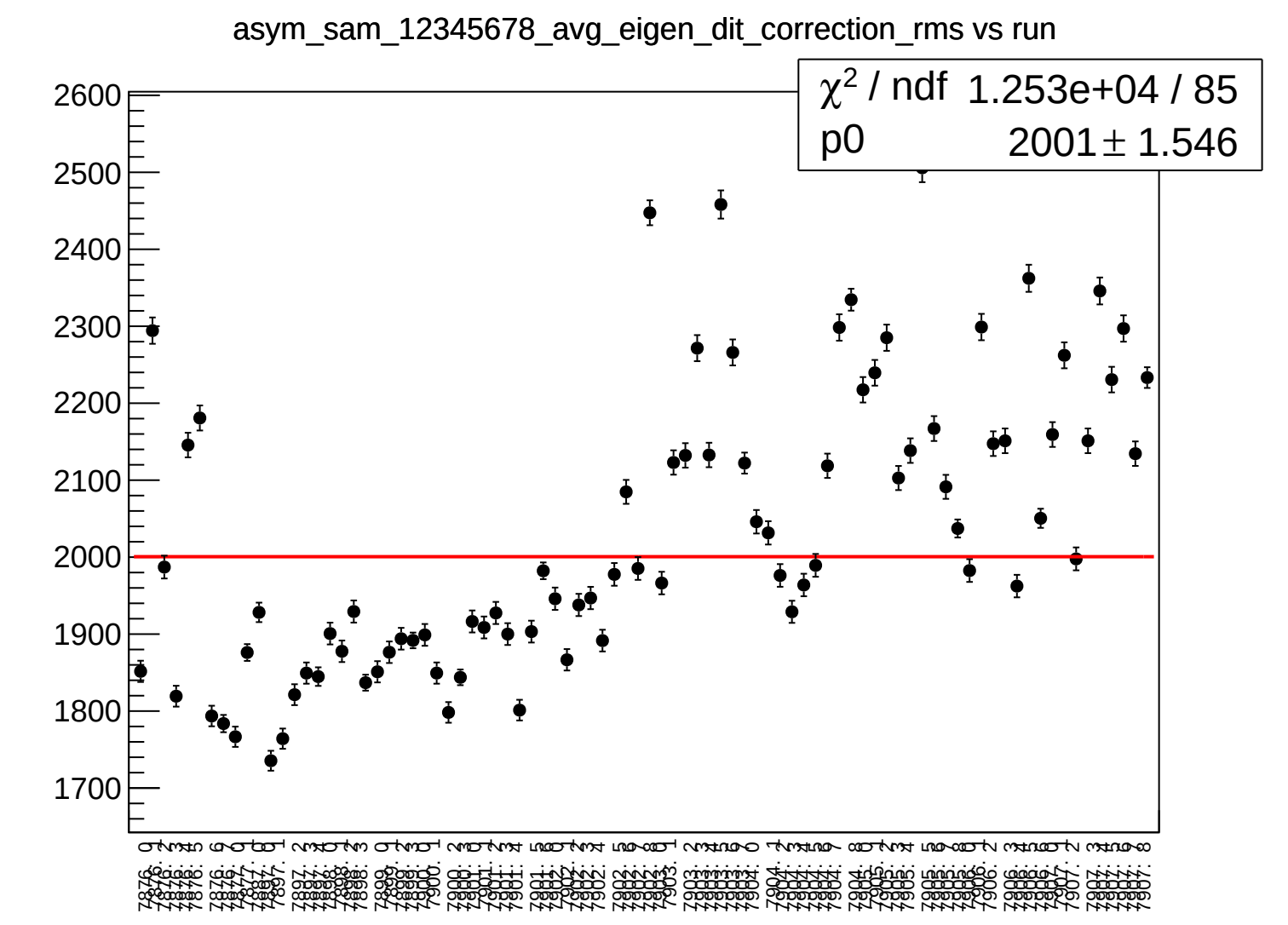

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.253e+04 / 85
p0 2001 ± 1.546
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700

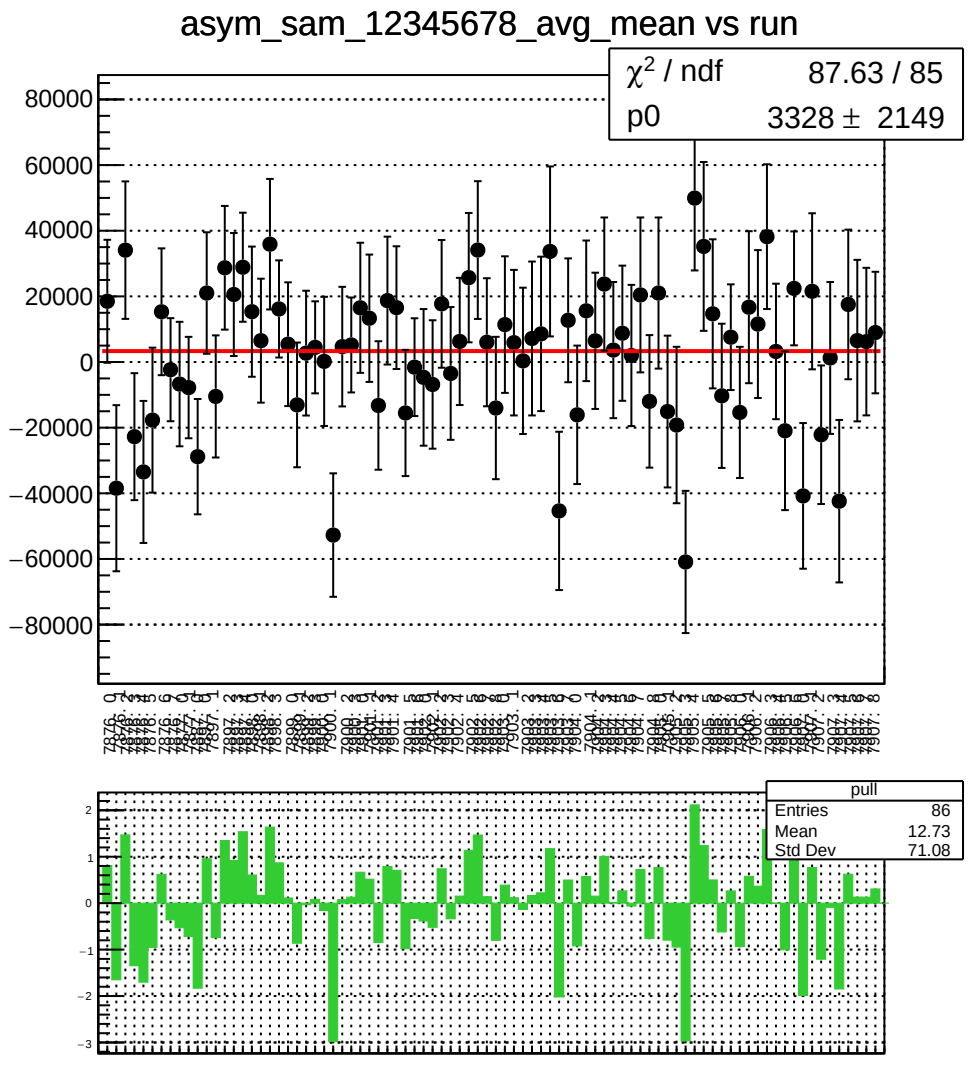

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 82.52 / 85
p0 −267.3 ± 232.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −321.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.0115
Std Dev 0.9795
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

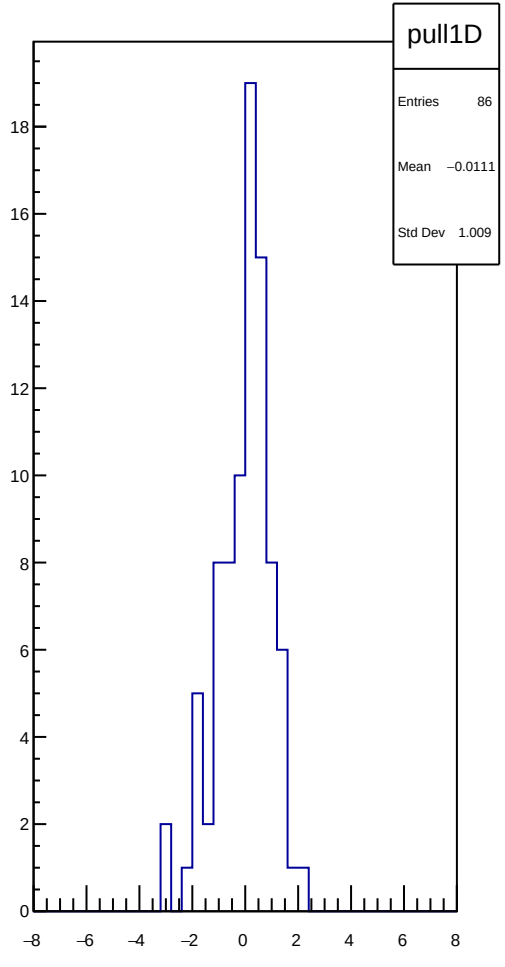

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.83e+04 / 85
p0 212.8 ± 0.1647
280
260
240
220
200
180
160

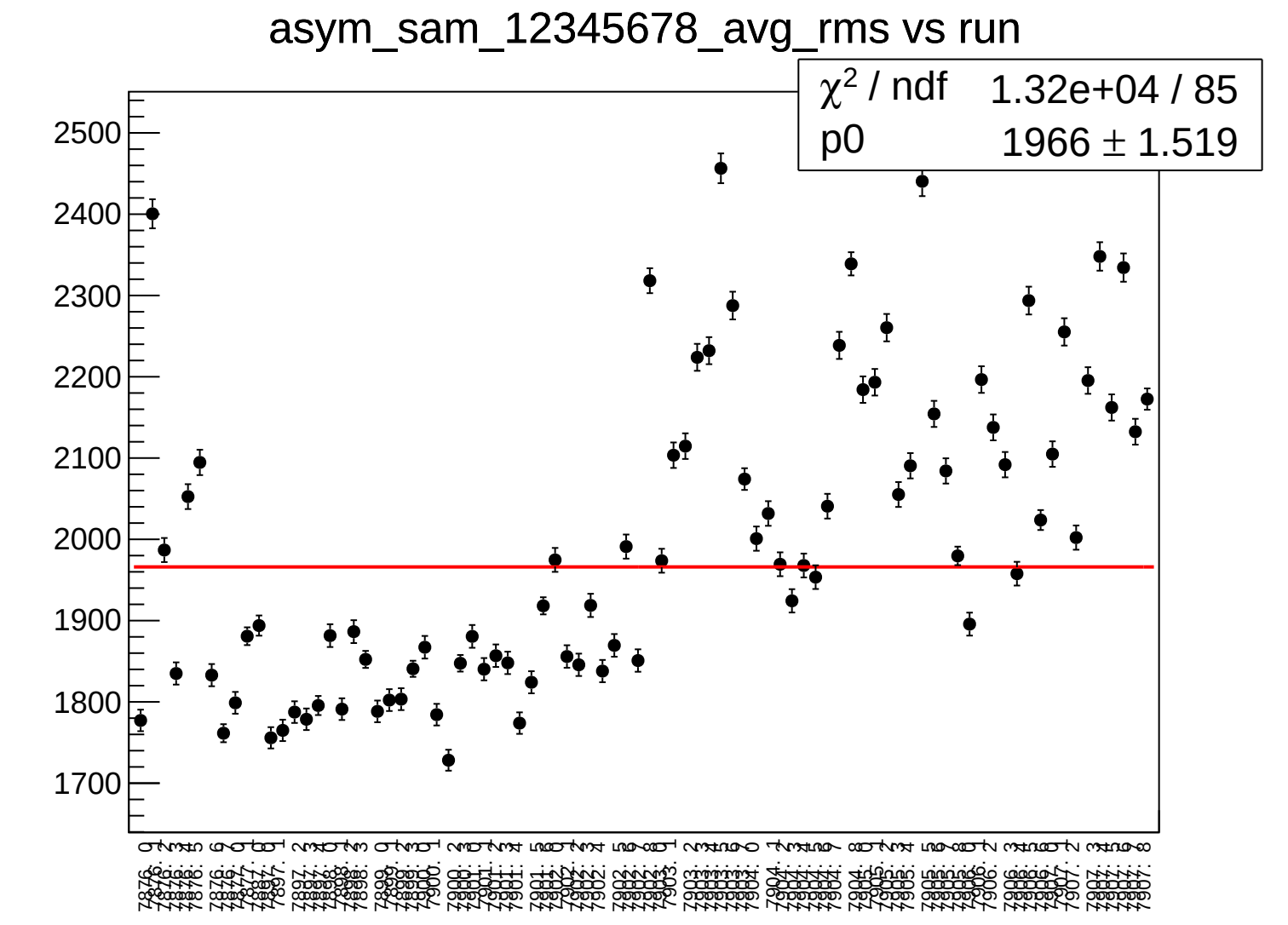

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.42 / 85
p0 −3544 ± 2186
pull
Entries 86
Mean −25.13
Std Dev 41.06

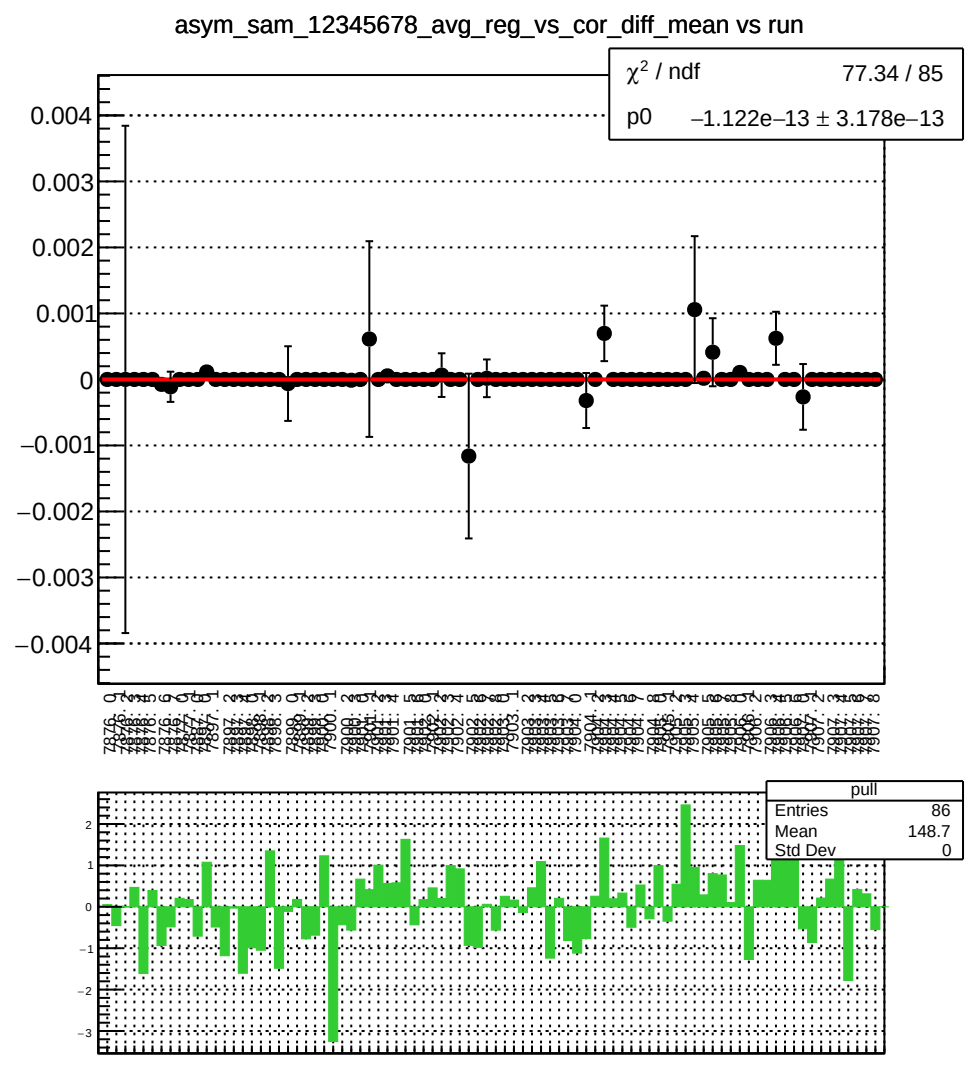

pull1D
Entries 86
Mean 0.01128
Std Dev 1.002

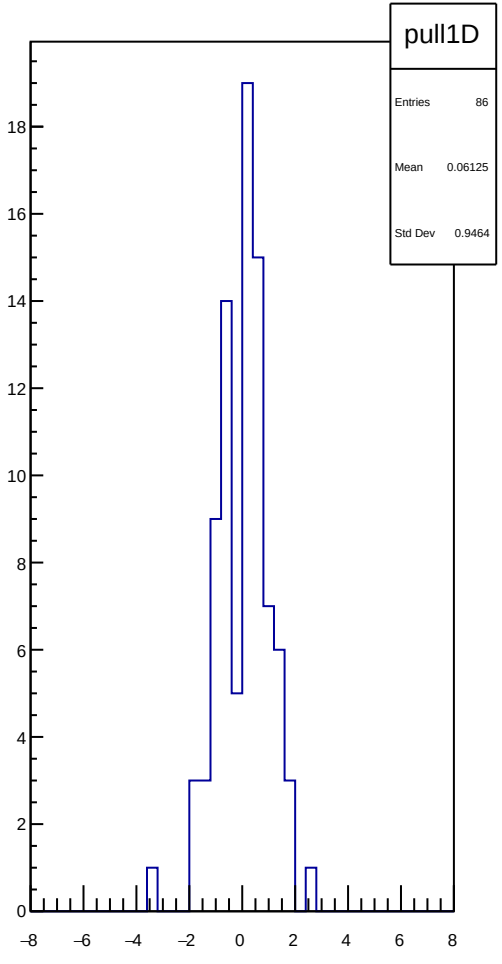

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.253e+04 / 85
p0 2001 ± 1.546
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700

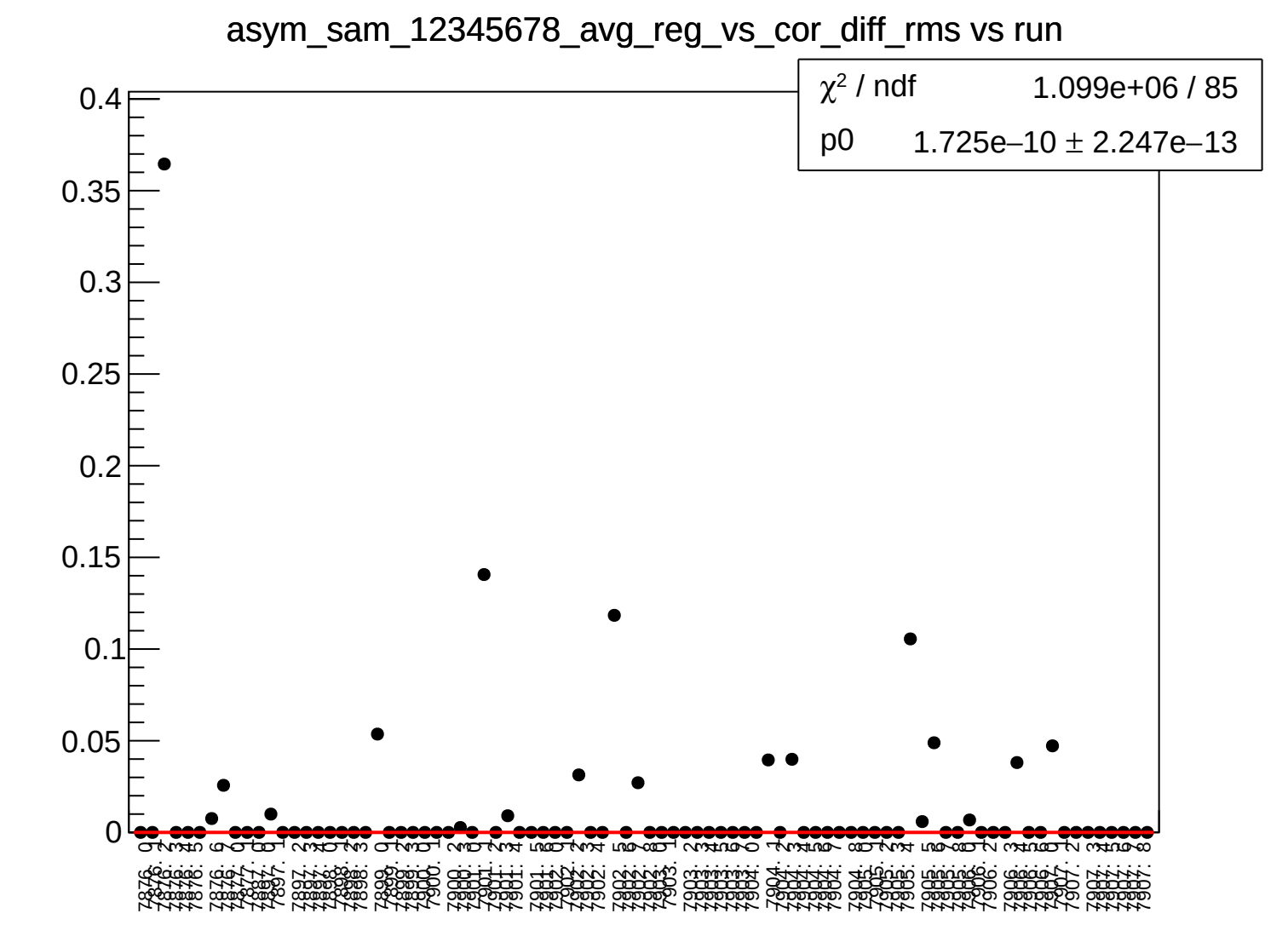

asym_sam_12345678_avg_mean vs run
χ² / ndf 87.63 / 85
p0 3328 ± 2149
pull
Entries 86
Mean 12.73
Std Dev 71.08

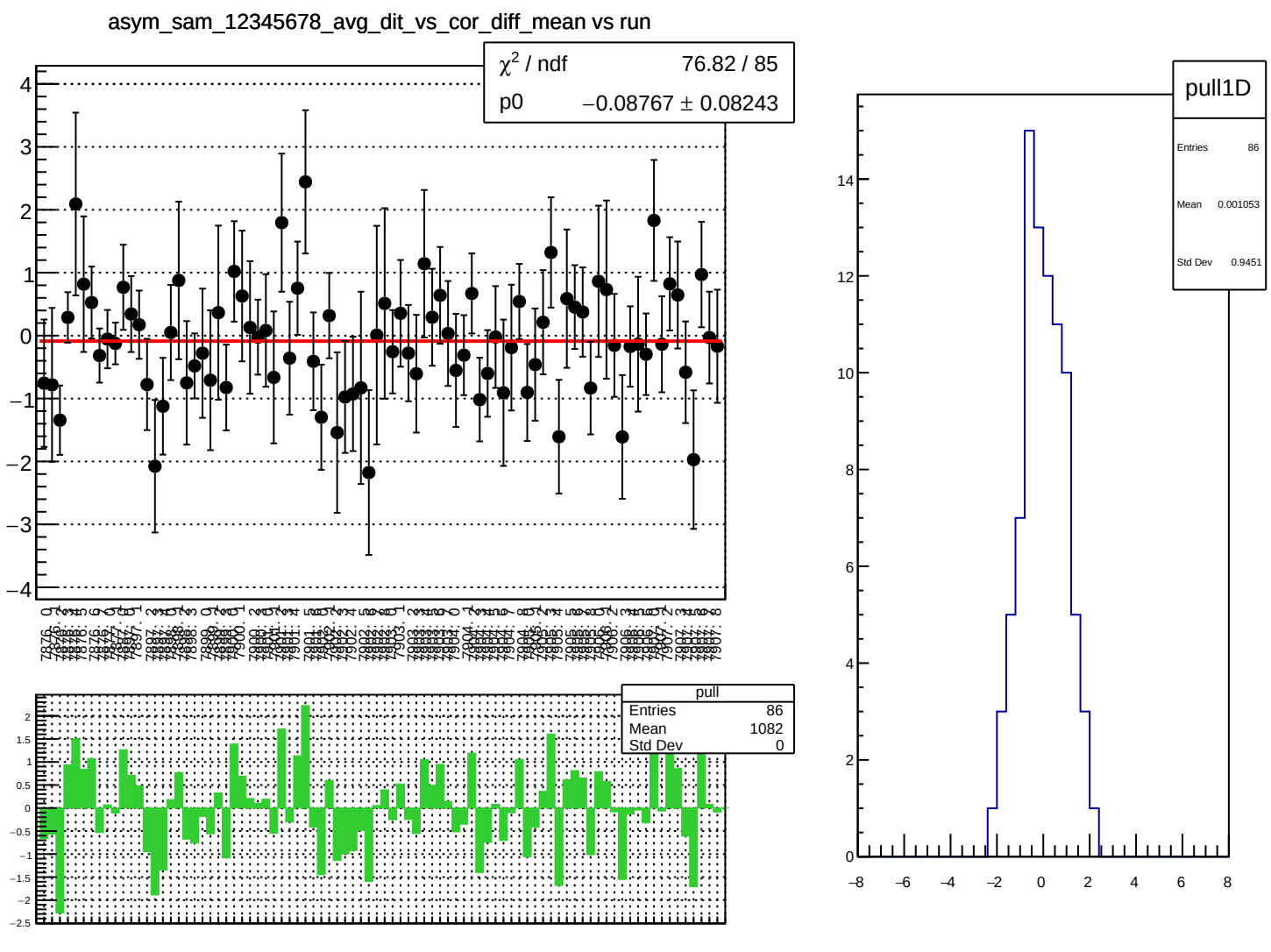

pull1D
Entries 86
Mean −0.0111
Std Dev 1.009

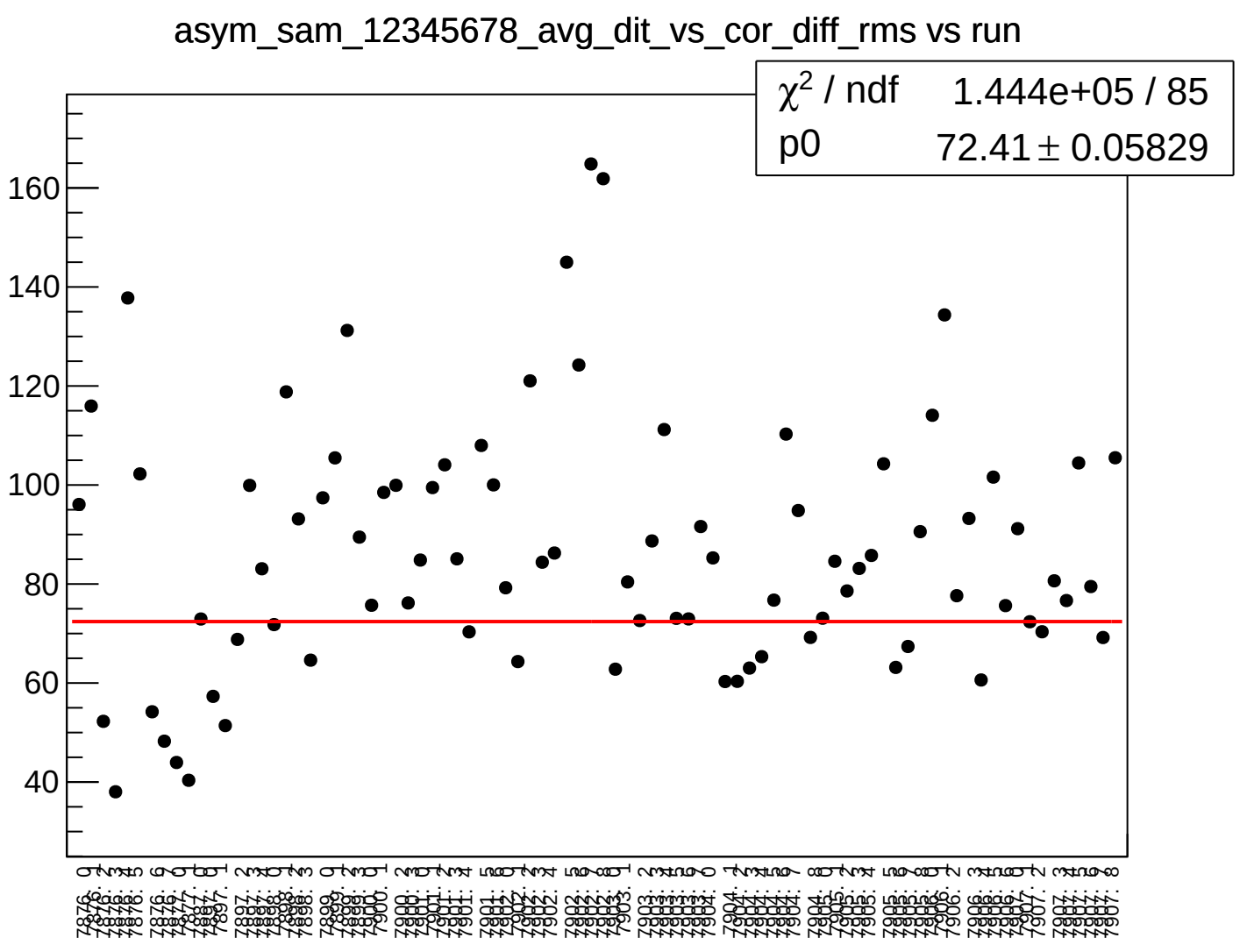

asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.32e+04 / 85
p0 1966 ± 1.519
2500
2400
2300
2200
2100
2000
1900
1800
1700

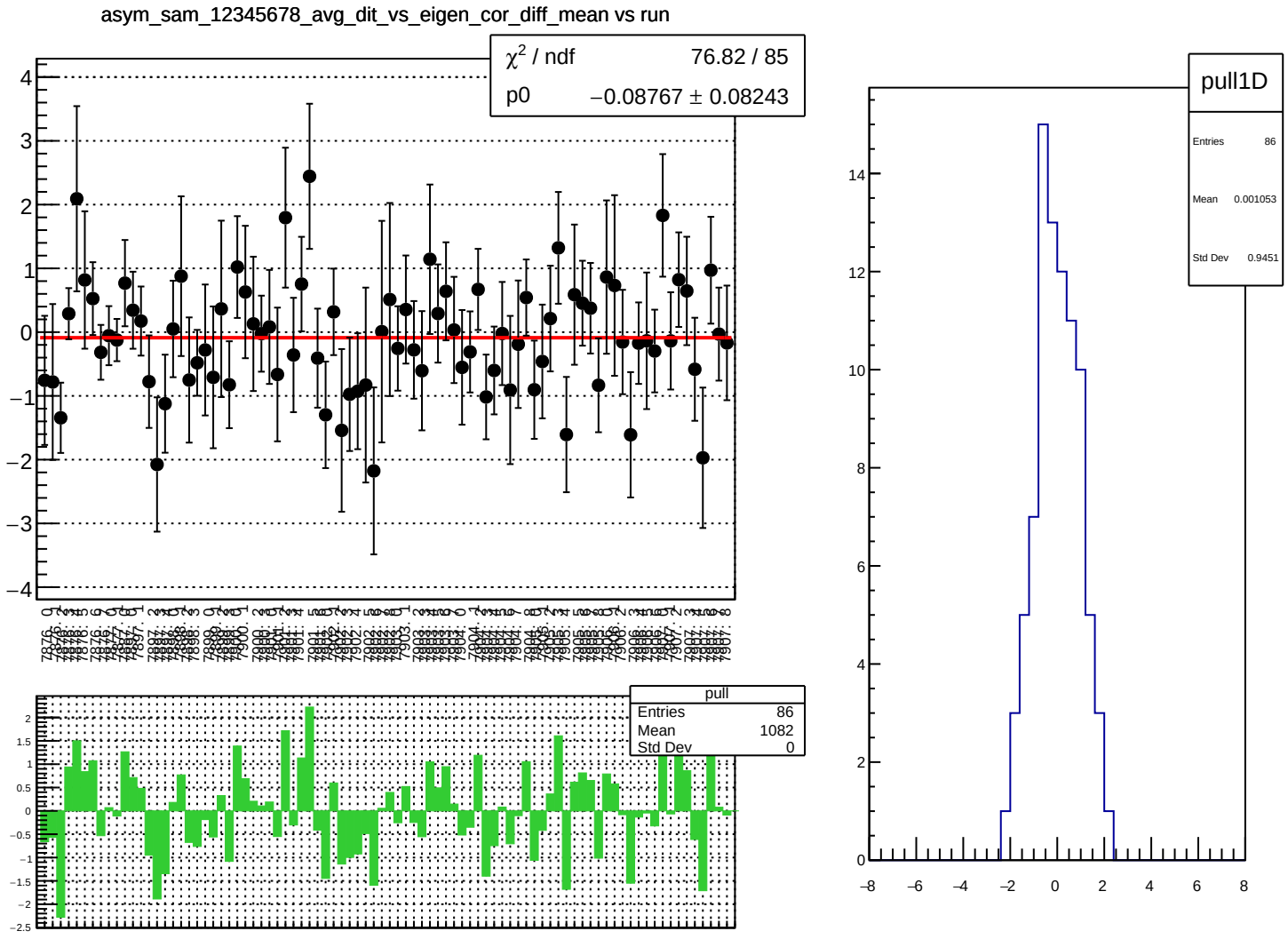

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.34 / 85
p0 −1.122e−13 ± 3.178e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 86
Mean 148.7
Std Dev 0
2
1
0
−1
−2
−3

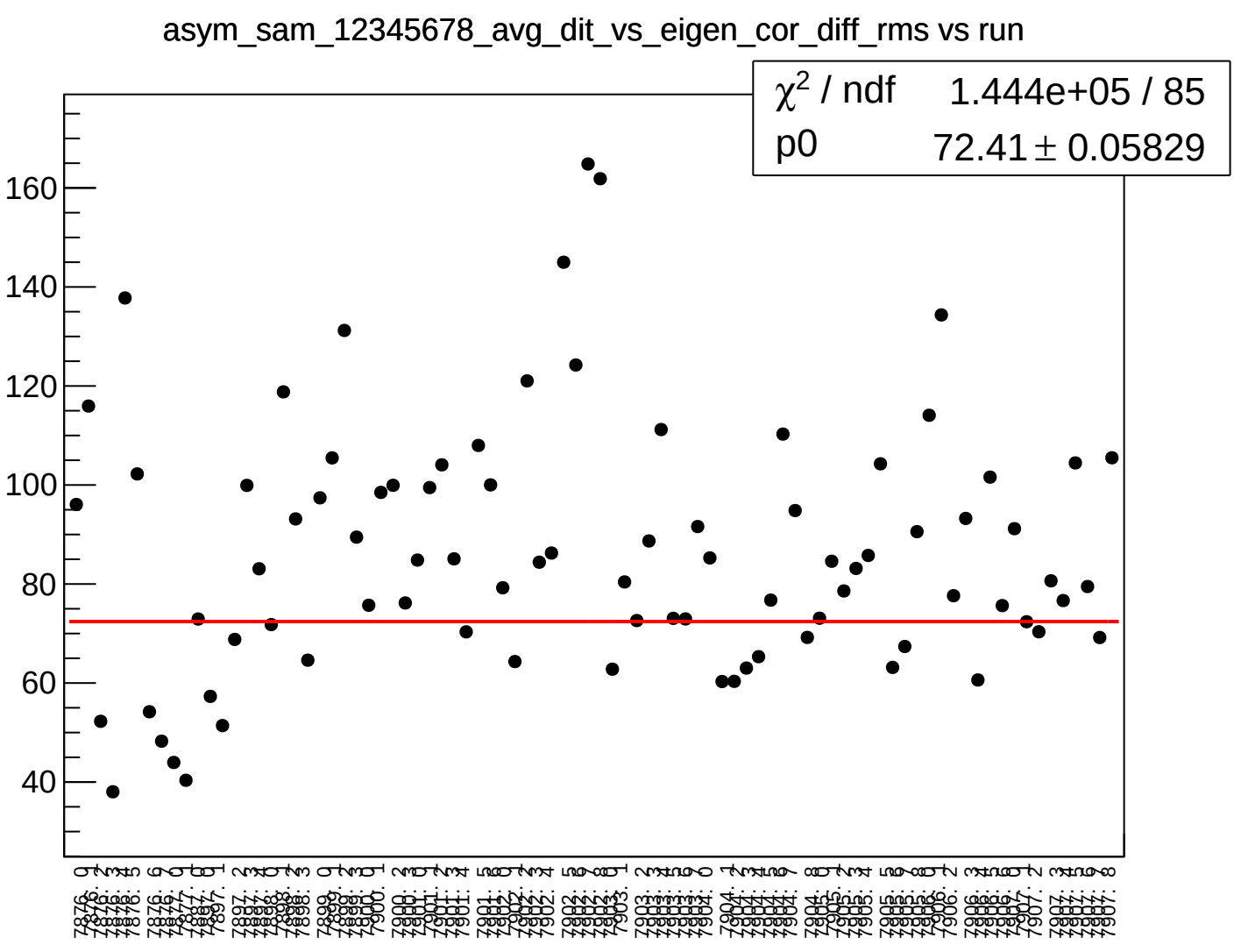

pull1D
Entries 86
Mean 0.06125
Std Dev 0.9464
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

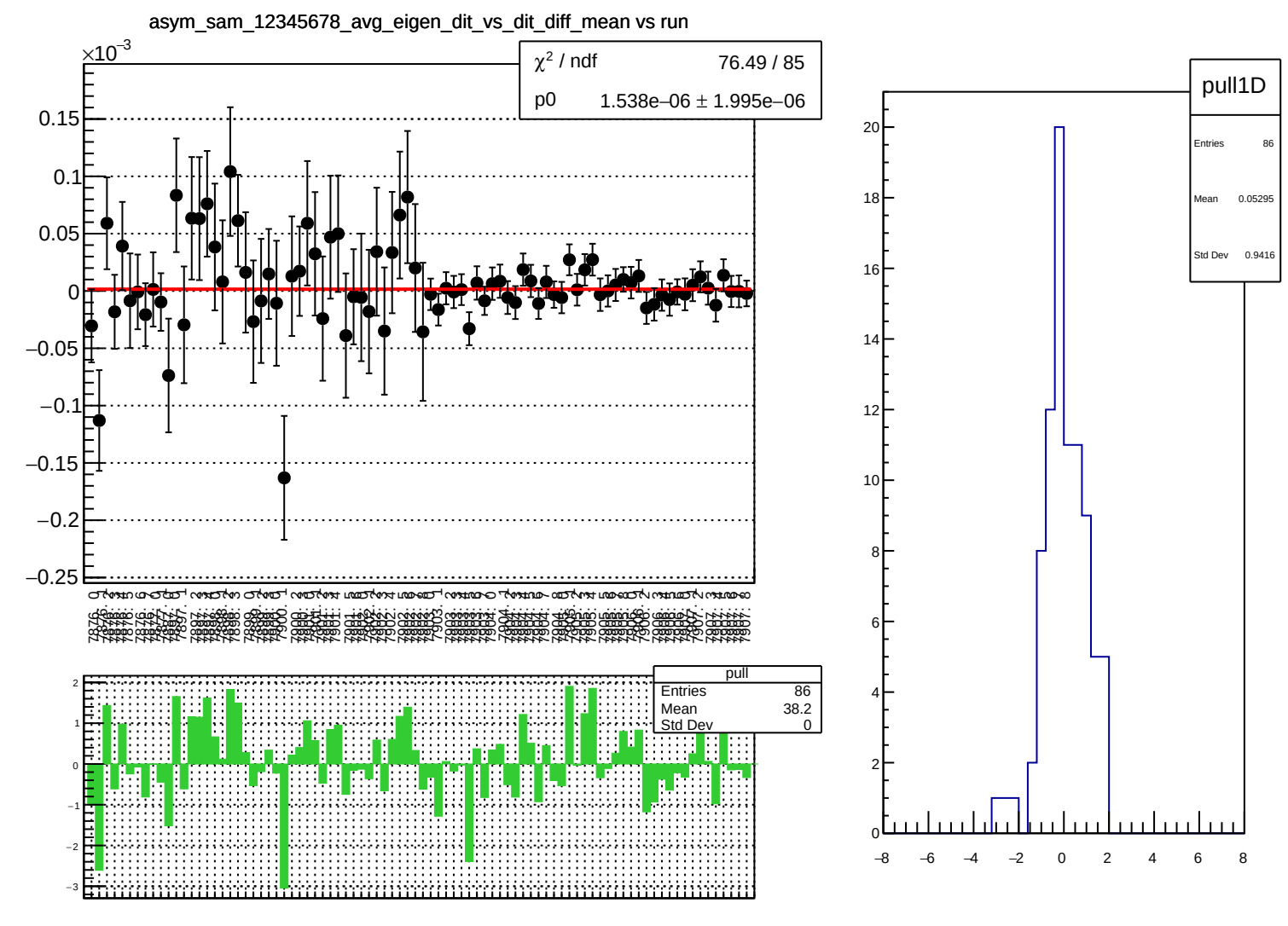

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.099e+06 / 85
p0 1.725e−10 ± 2.247e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

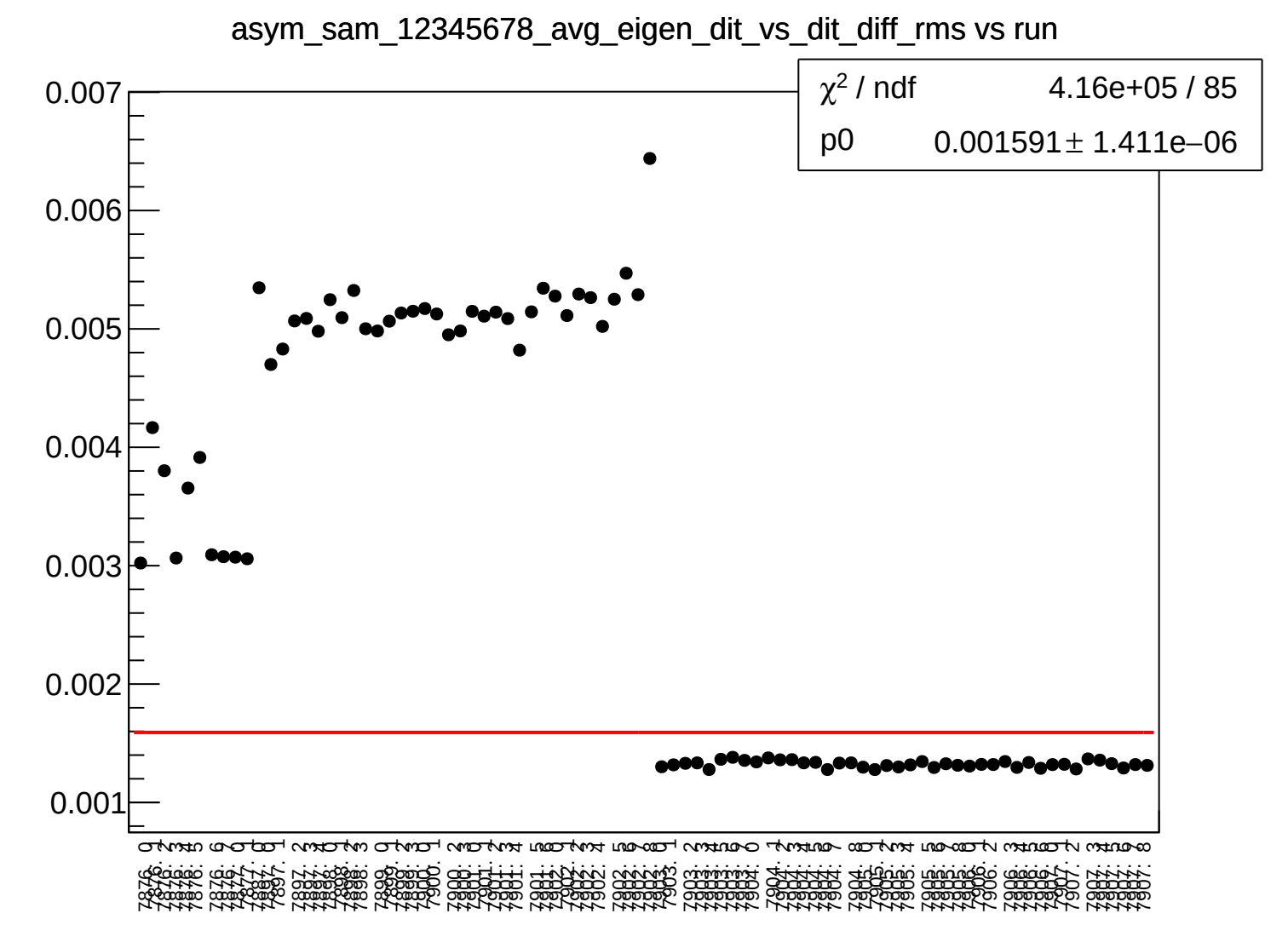

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.82 / 85
p0 −0.08767 ± 0.08243
pull
Entries 86
Mean 1082
Std Dev 0
pull1D
Entries 86
Mean 0.001053
Std Dev 0.9451


asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.444e+05 / 85
p0 72.41 ± 0.05829
160
140
120
100
80
60
40

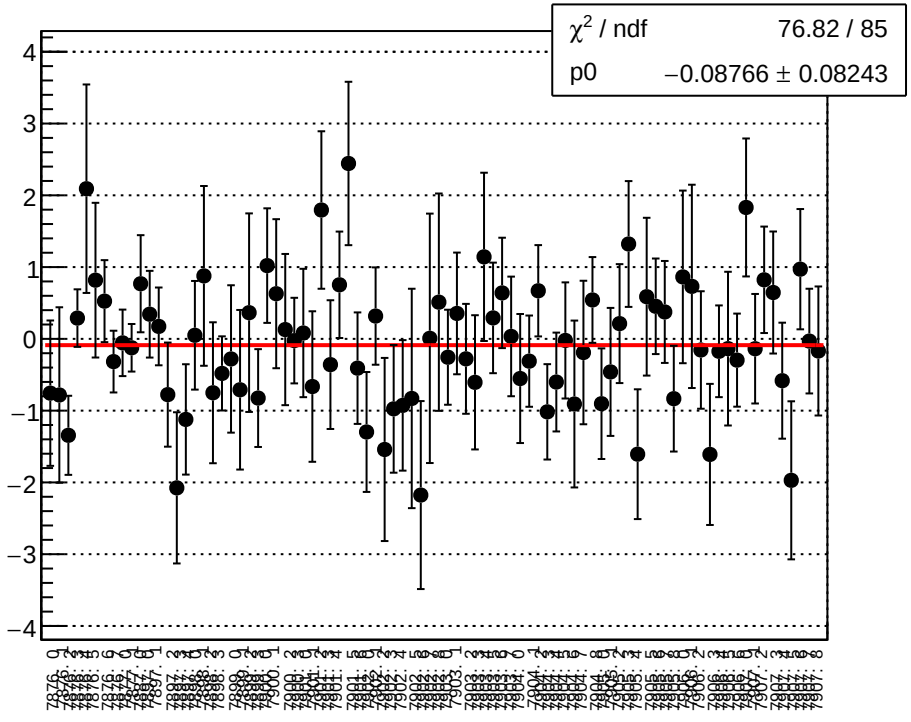

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.82 / 85
p0 −0.08767 ± 0.08243
pull
Entries 86
Mean 1082
Std Dev 0
pull1D
Entries 86
Mean 0.001053
Std Dev 0.9451

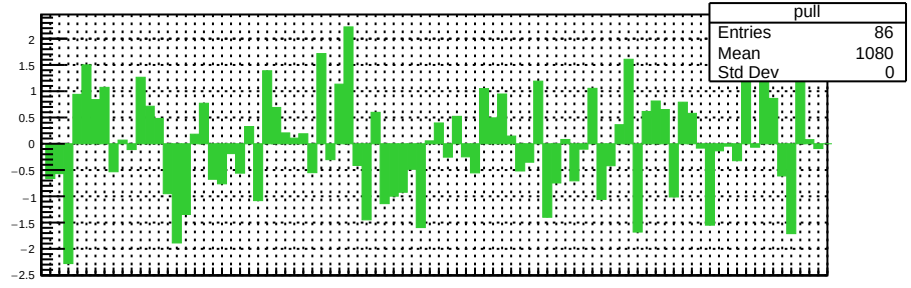

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.444e+05 / 85
p0 72.41 ± 0.05829
160
140
120
100
80
60
40

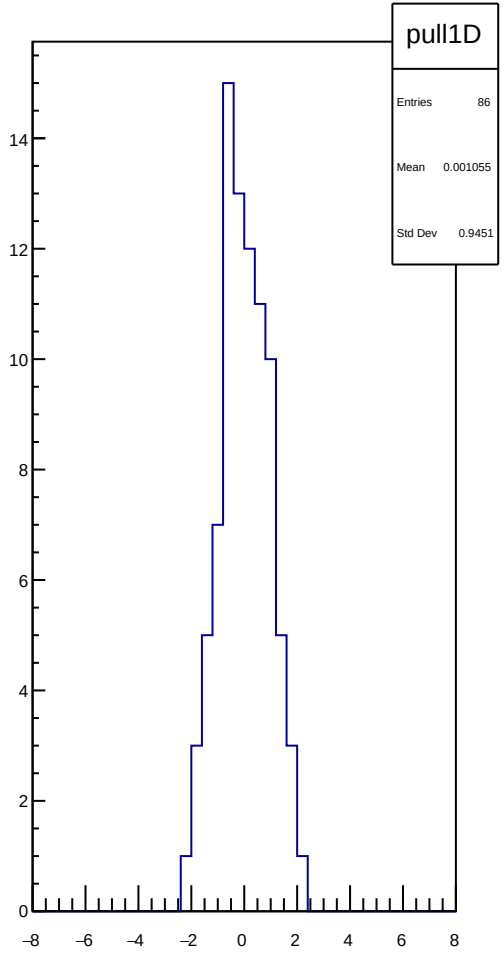

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.49 / 85
p0 1.538e−06 ± 1.995e−06
pull
Entries 86
Mean 38.2
Std Dev 0
pull1D
Entries 86
Mean 0.05295
Std Dev 0.9416

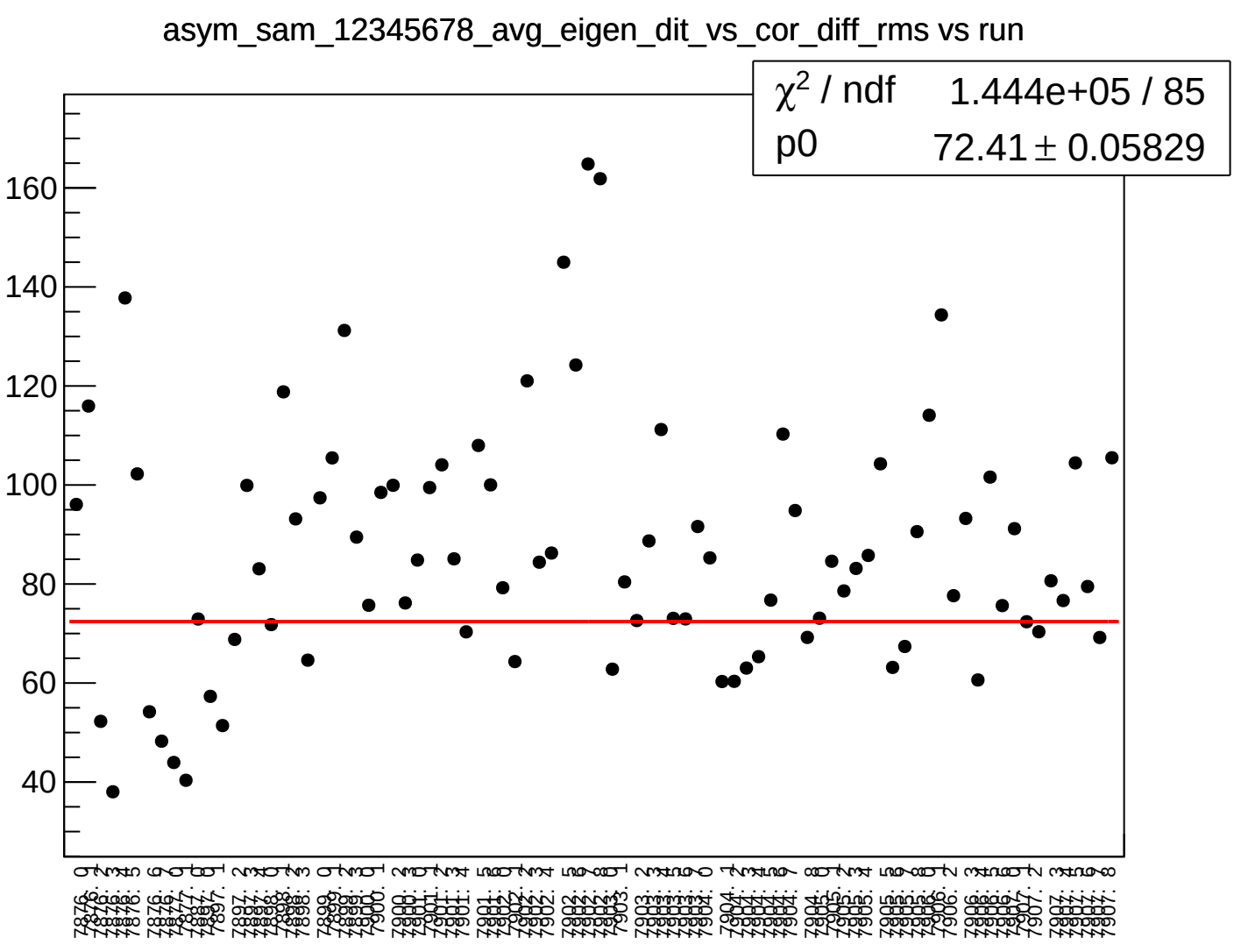

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.16e+05 / 85
p0 0.001591 ± 1.411e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

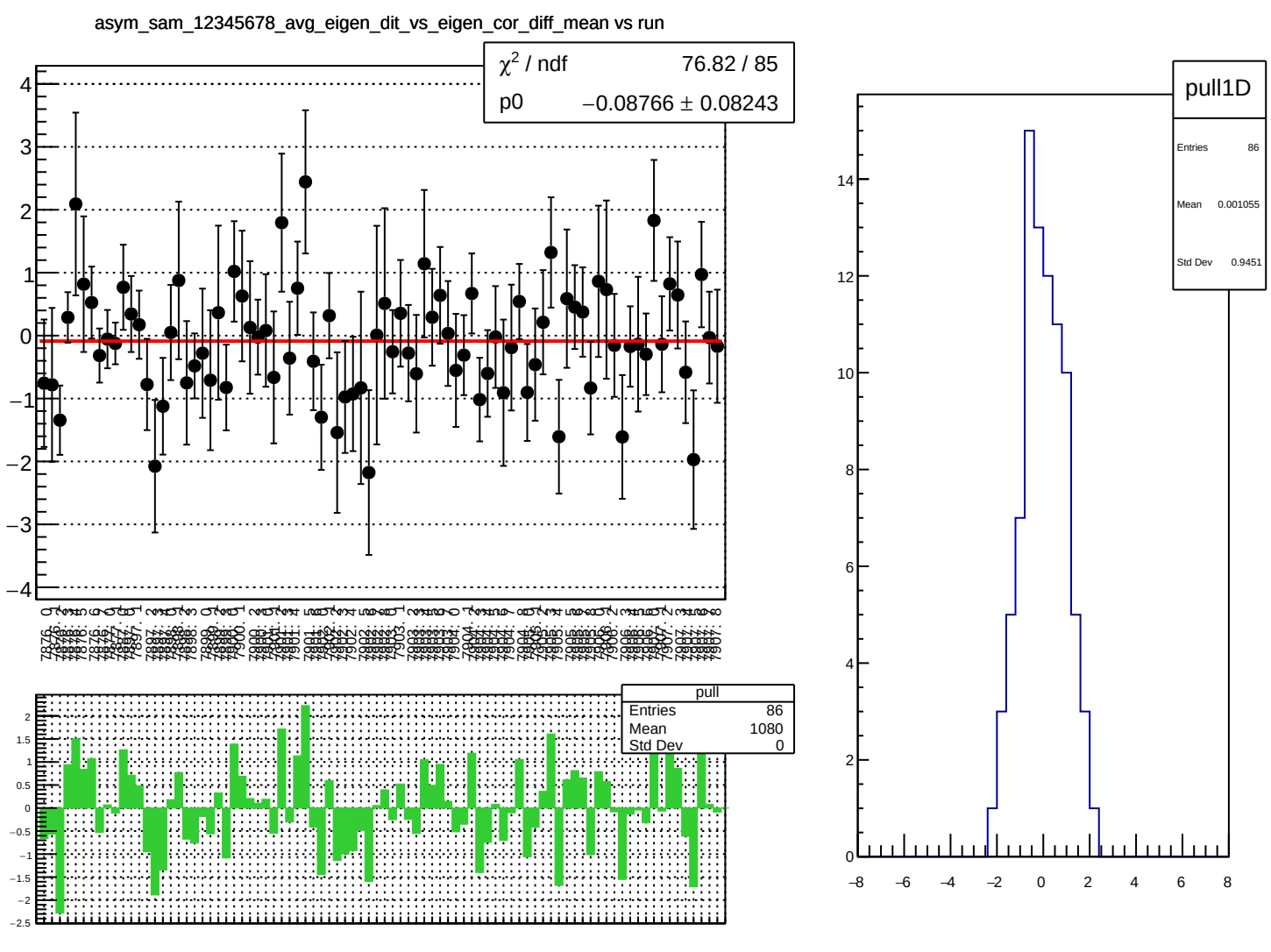
asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run

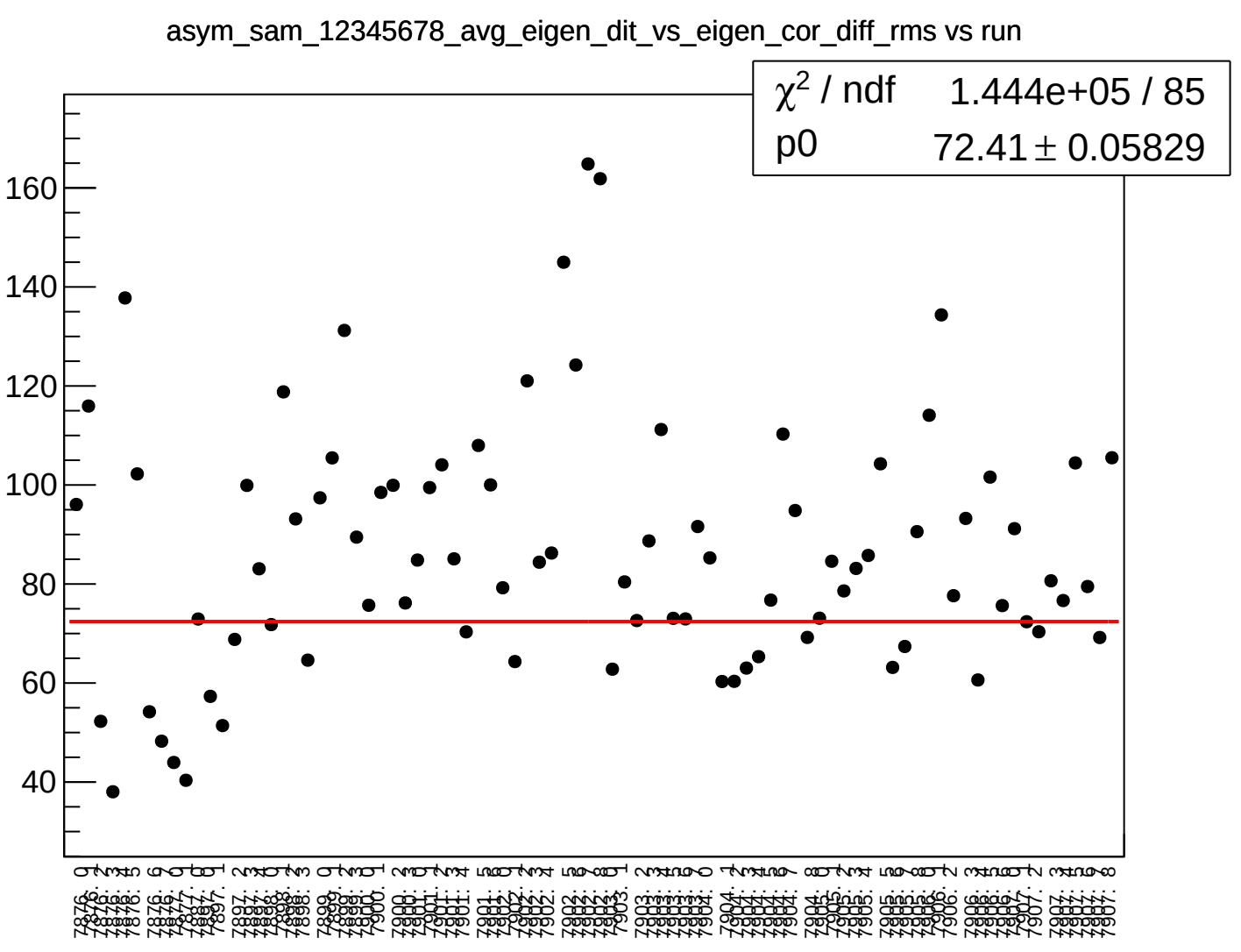


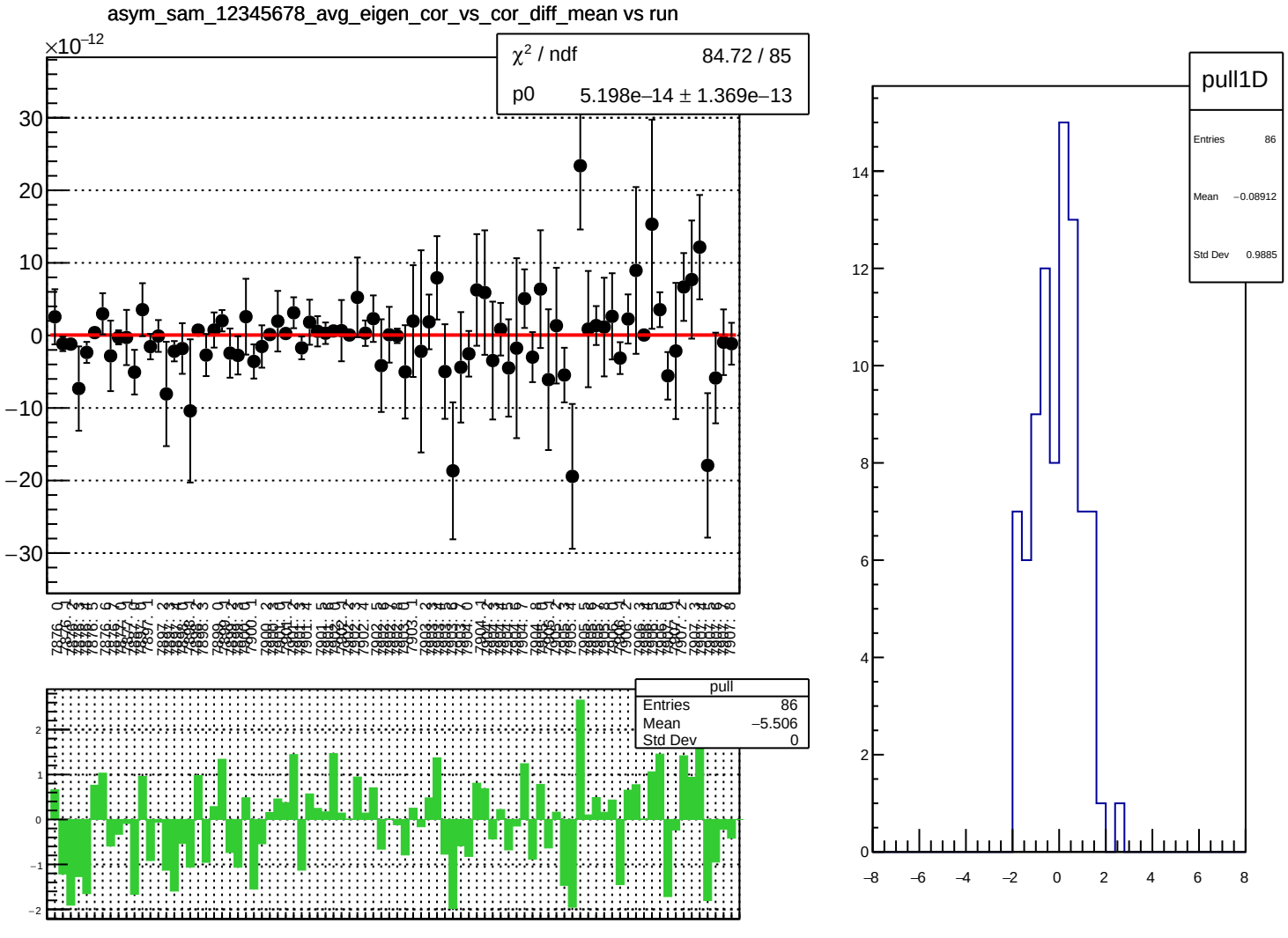


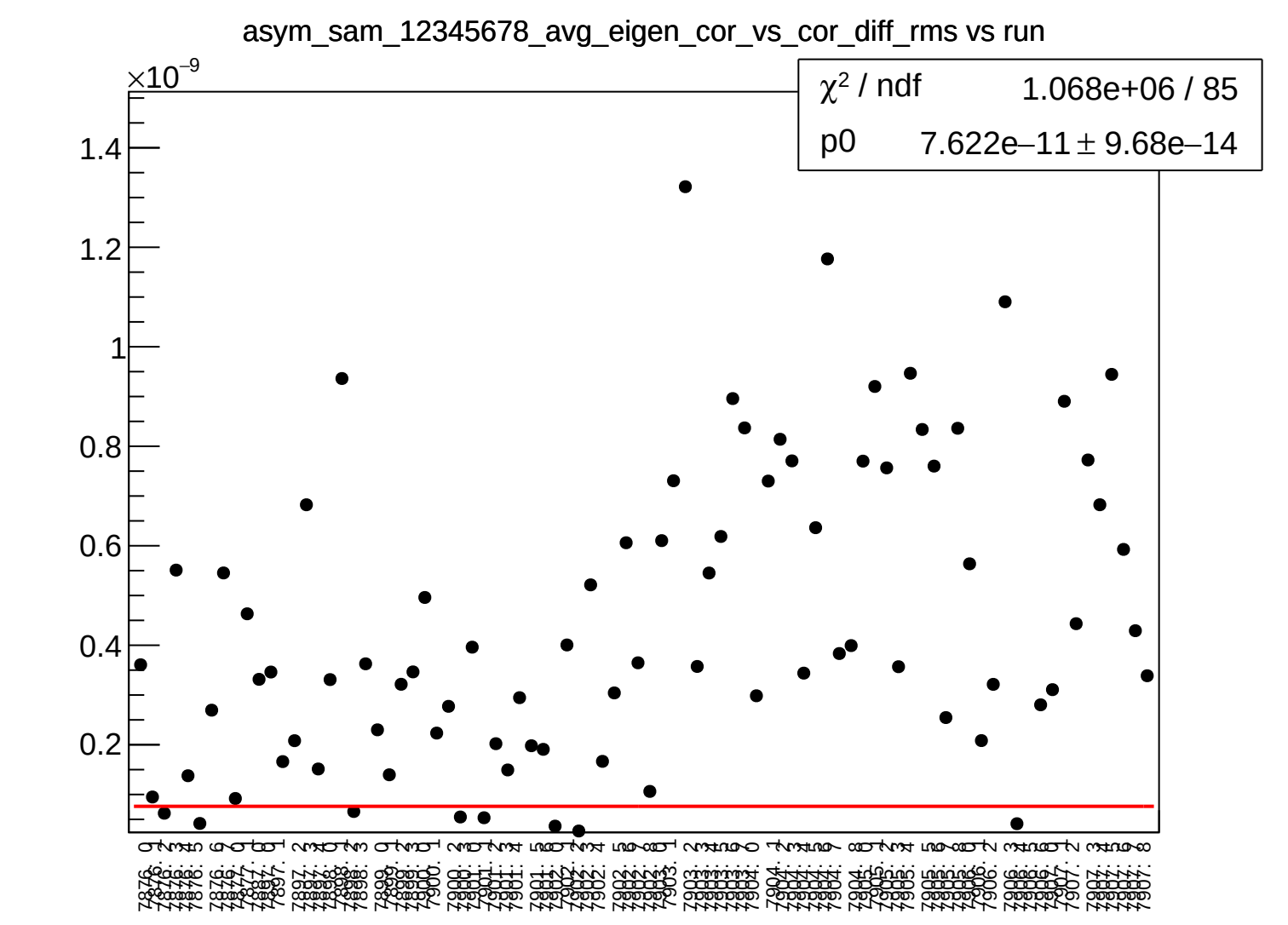


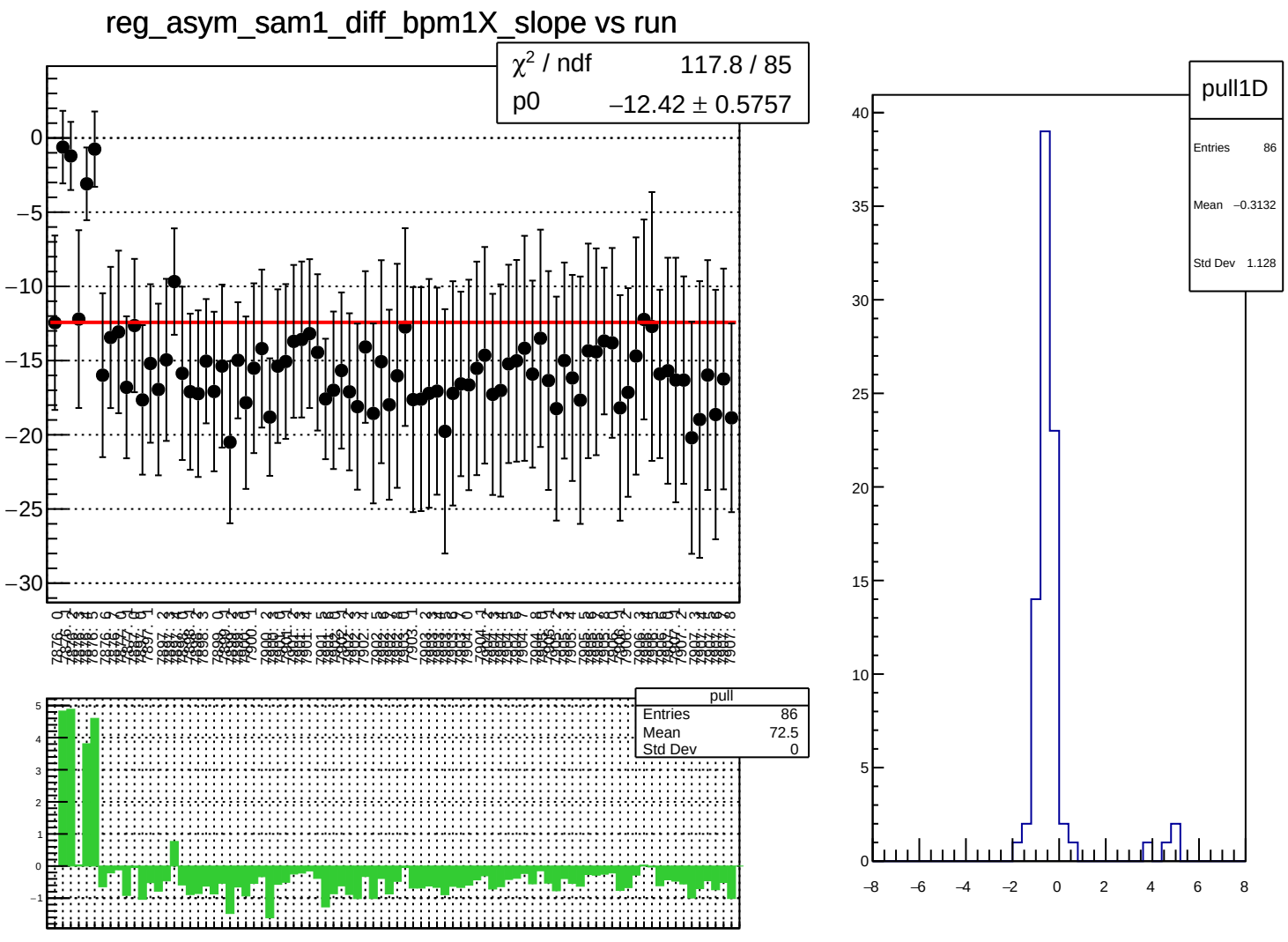

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.444e+05 / 85
p0 72.41 ± 0.05829
160
140
120
100
80
60
40

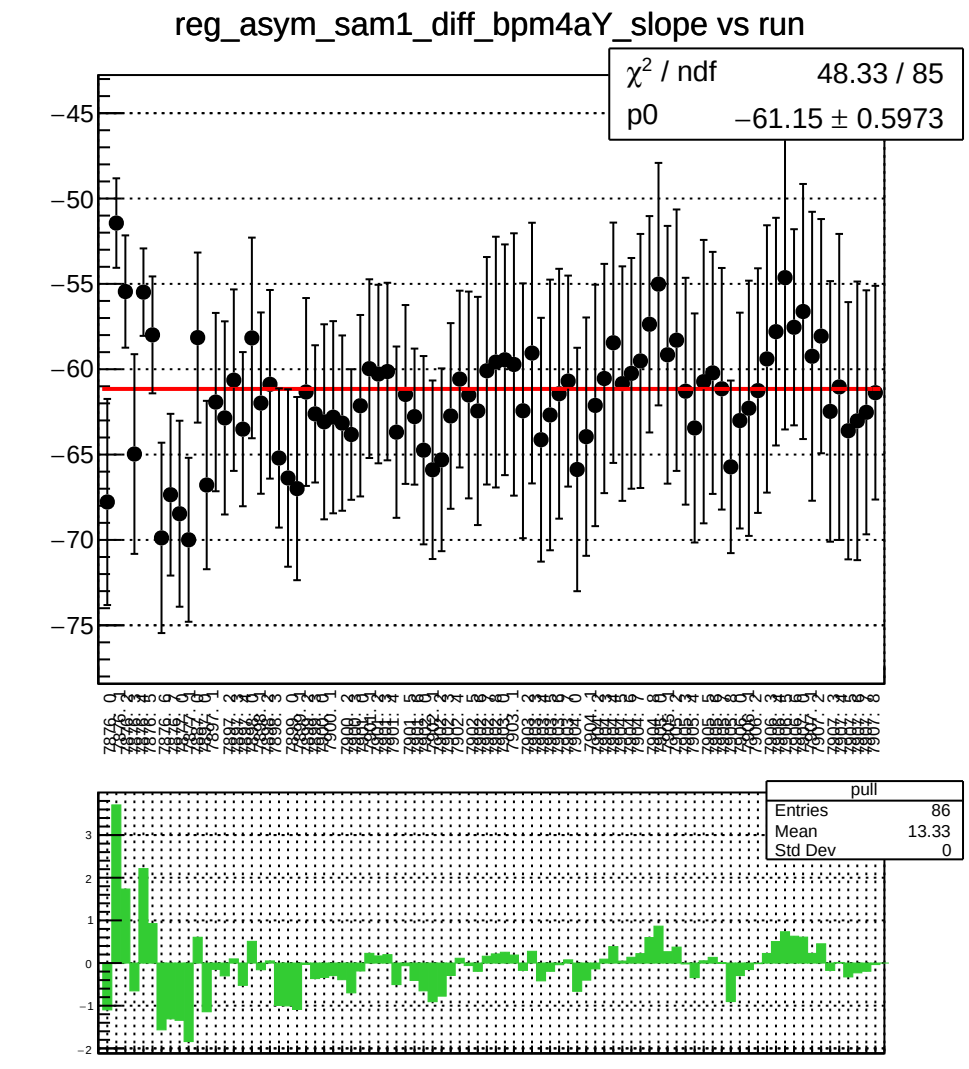

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.82 / 85
p0 −0.08766 ± 0.08243
pull
Entries 86
Mean 1080
Std Dev 0
pull1D
Entries 86
Mean 0.001055
Std Dev 0.9451

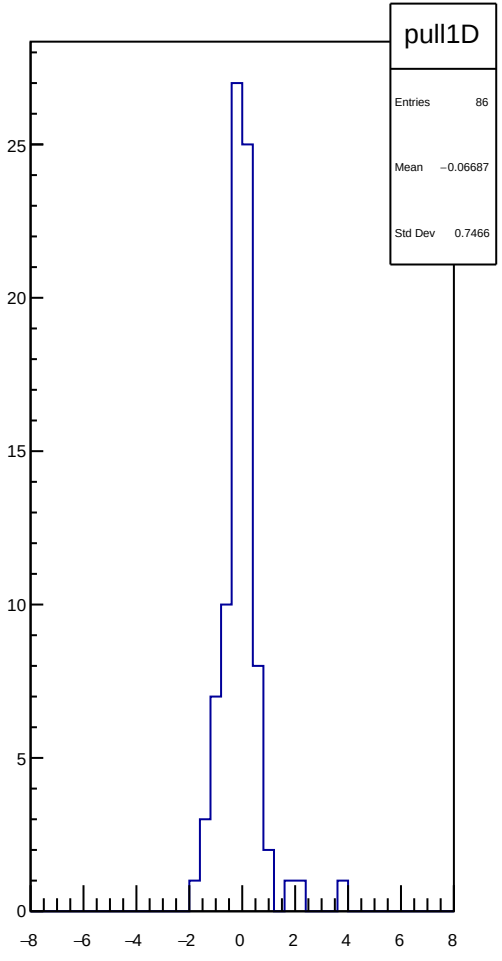

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.444e+05 / 85
p0 72.41 ± 0.05829
160
140
120
100
80
60
40

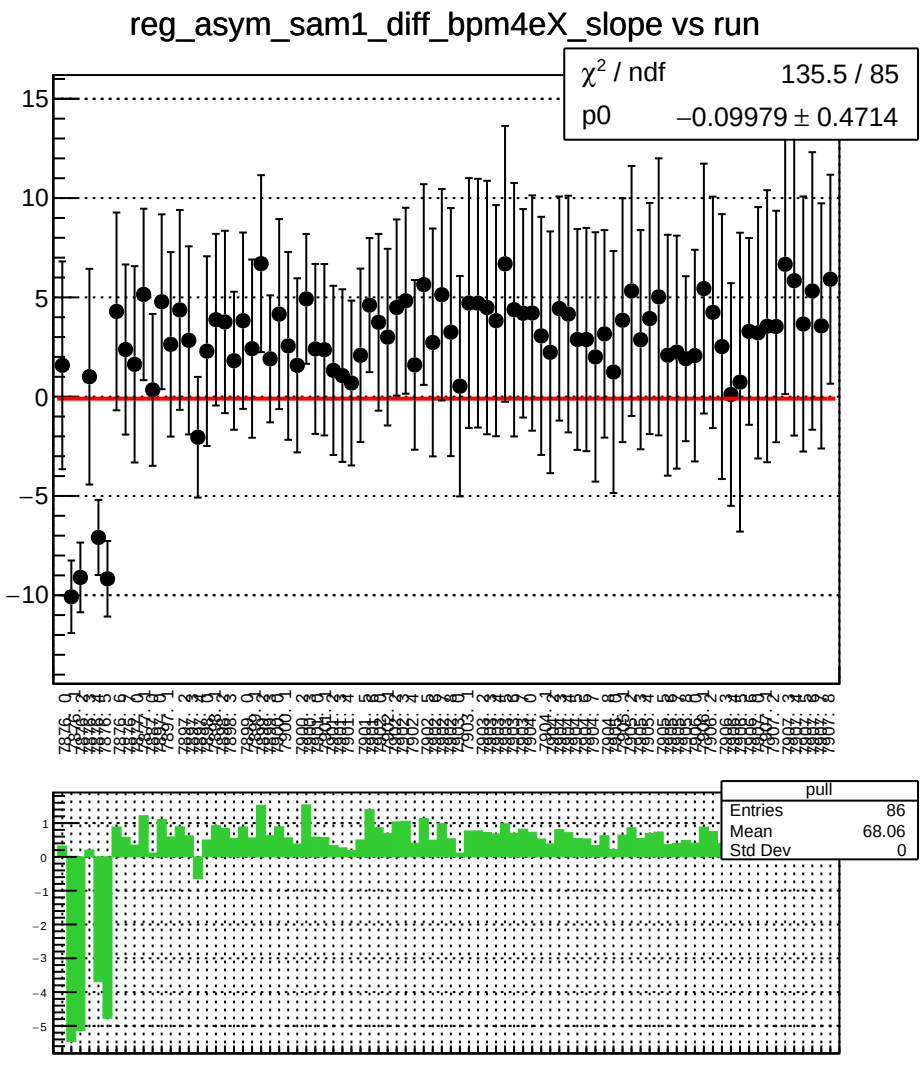

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.72 / 85
p0 5.198e−14 ± 1.369e−13
30
20
10
0
−10
−20
−30
pull
Entries 86
Mean −5.506
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.08912
Std Dev 0.9885
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

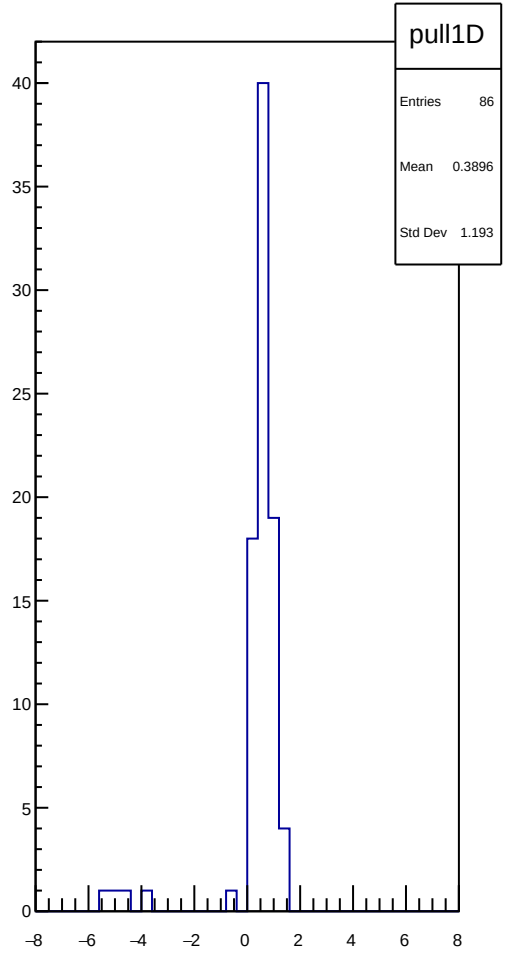

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.068e+06 / 85
p0 7.622e−11 ± 9.68e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

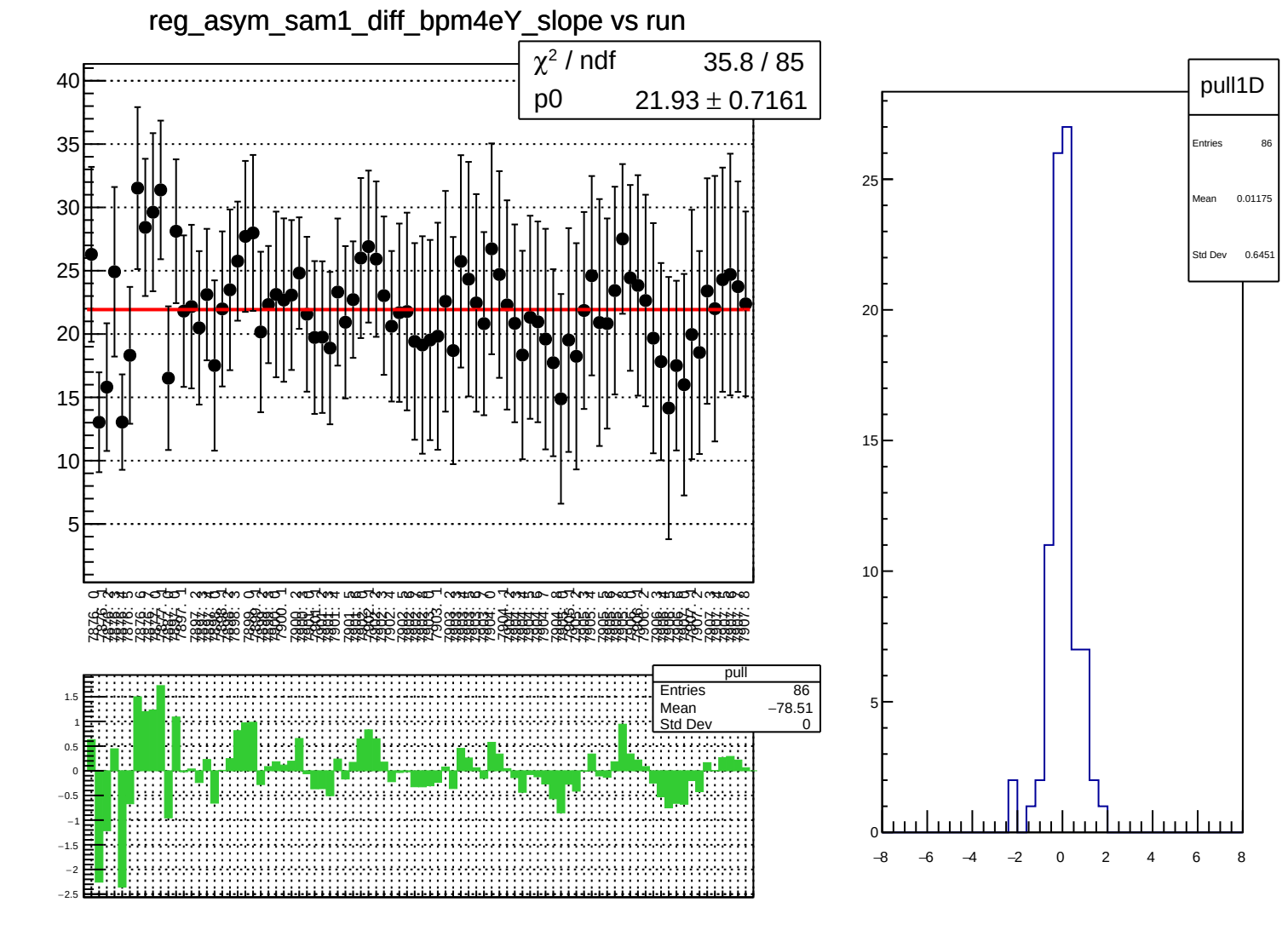

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 117.8 / 85
p0 −12.42 ± 0.5757
pull
Entries 86
Mean 72.5
Std Dev 0
pull1D
Entries 86
Mean −0.3132
Std Dev 1.128

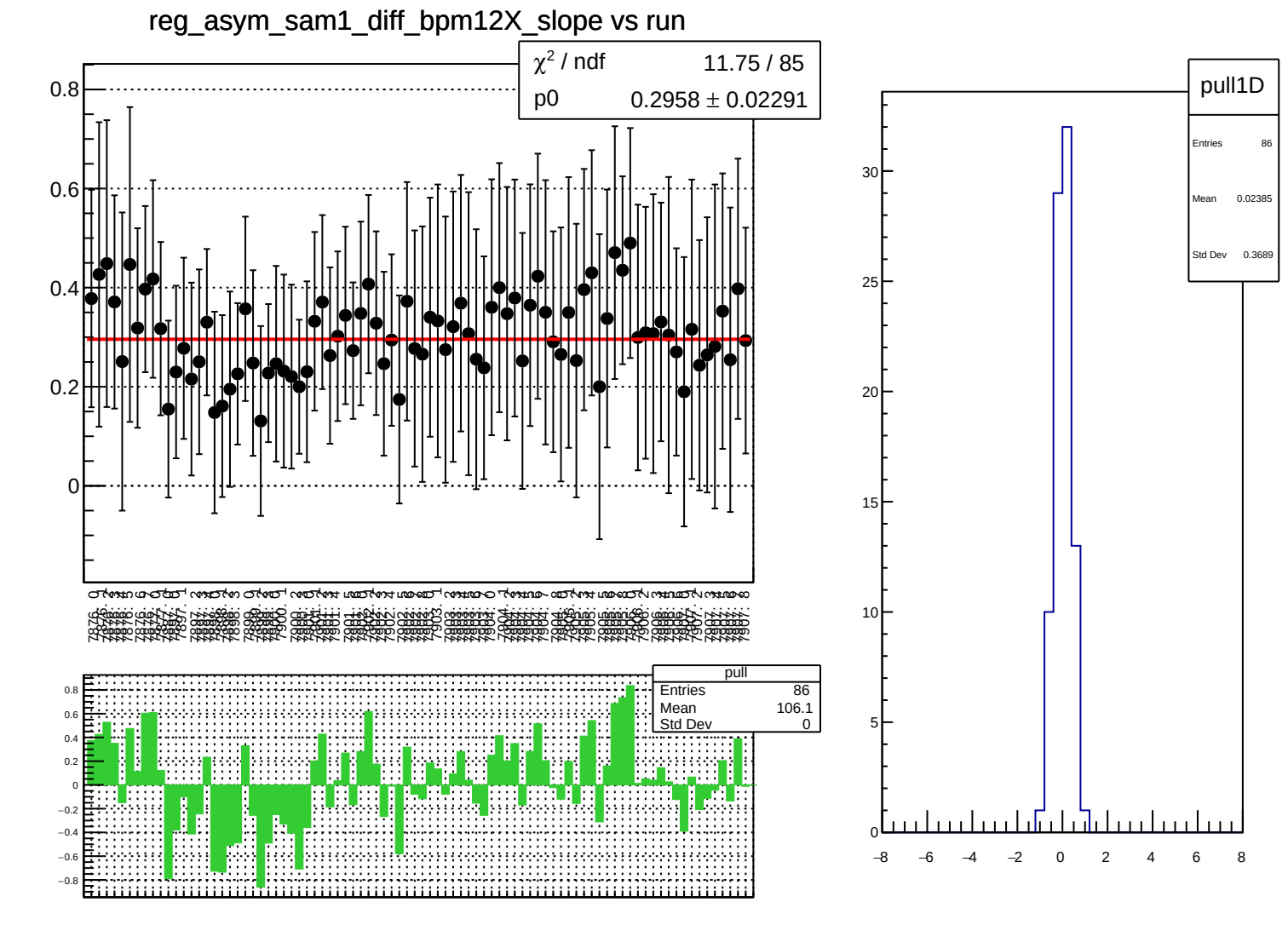

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 48.33 / 85
p0 −61.15 ± 0.5973
pull
Entries 86
Mean 13.33
Std Dev 0

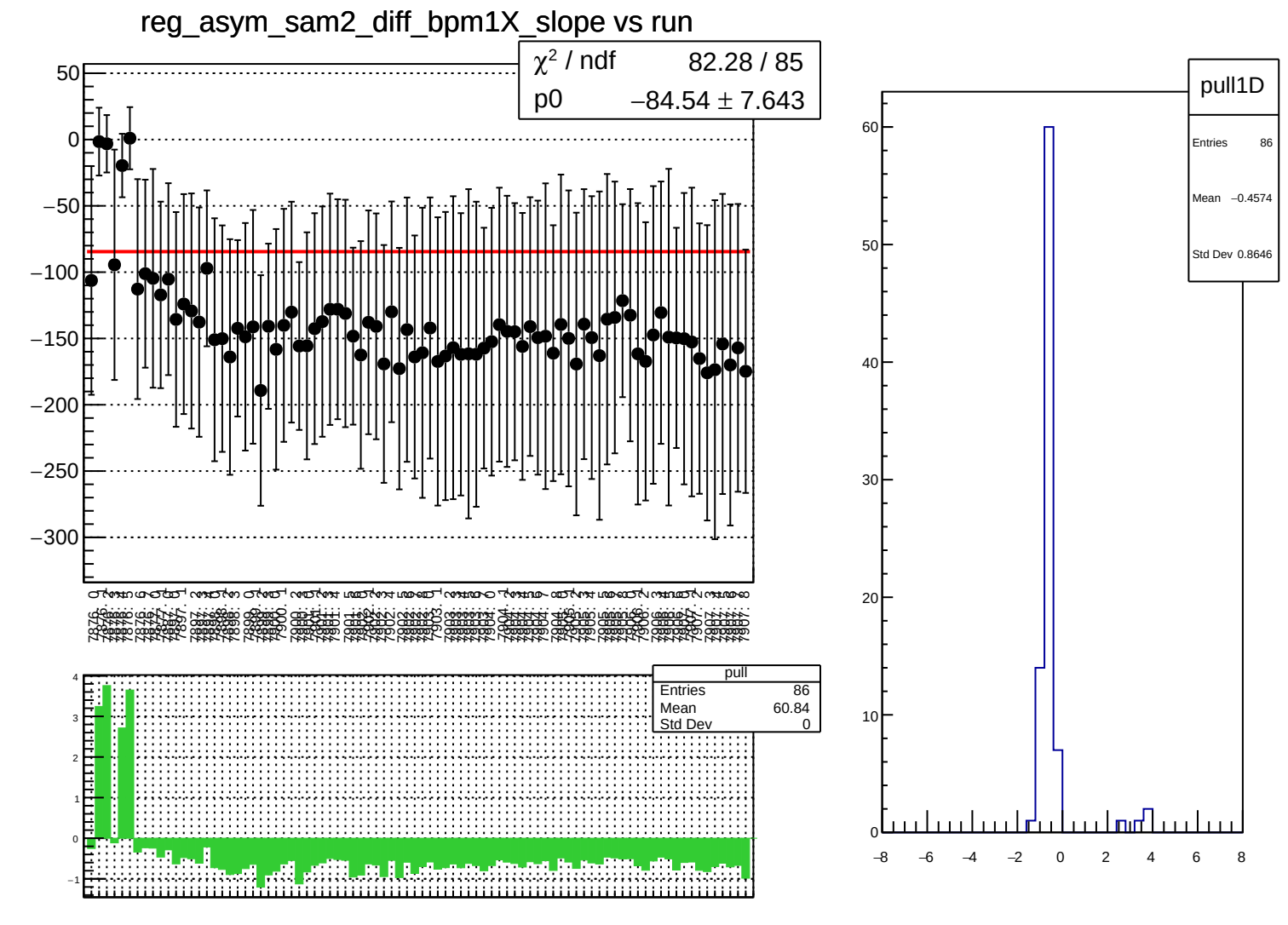

pull1D
Entries 86
Mean −0.06687
Std Dev 0.7466

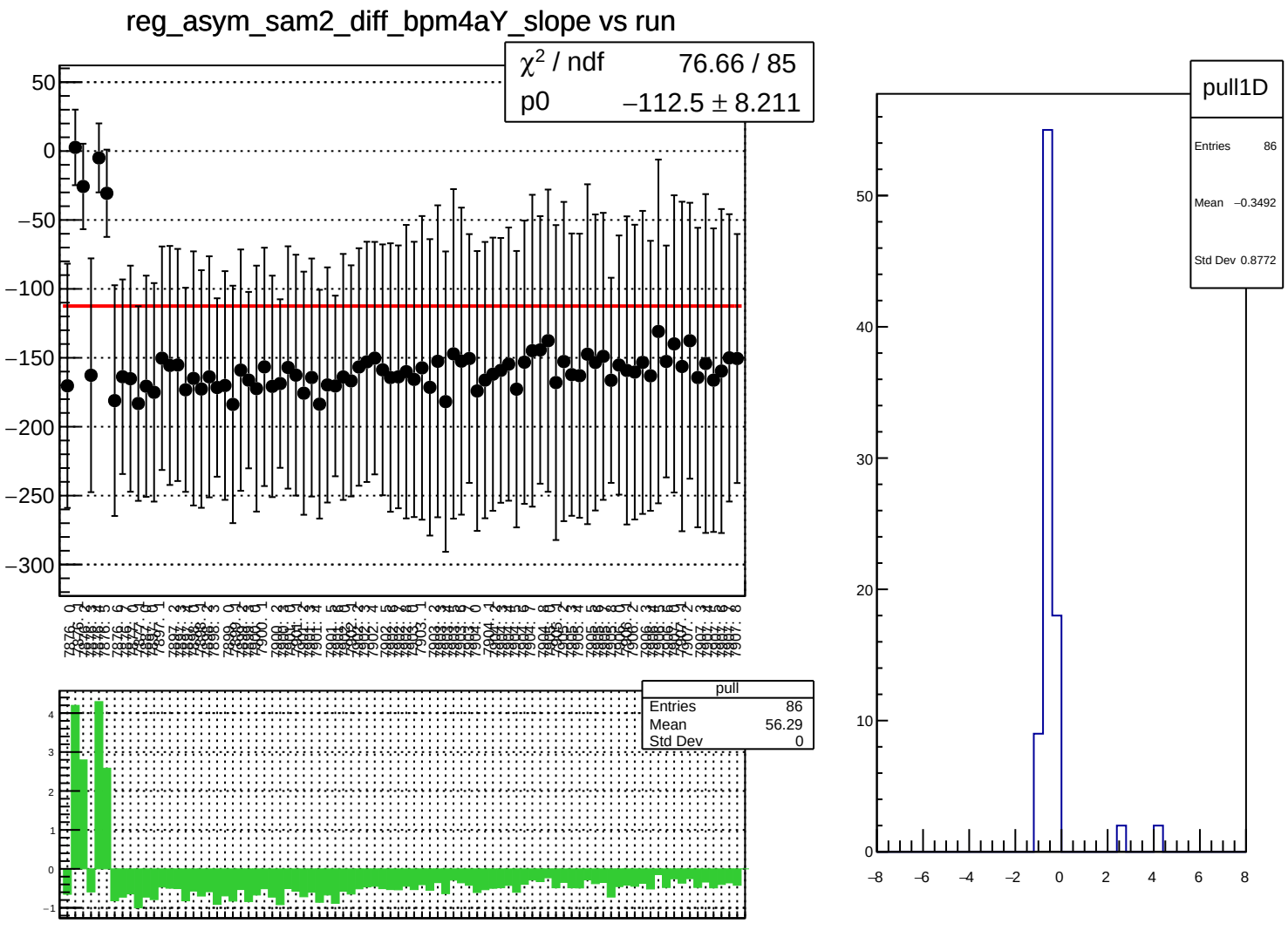

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 135.5 / 85
p0 −0.09979 ± 0.4714
pull
Entries 86
Mean 68.06
Std Dev 0

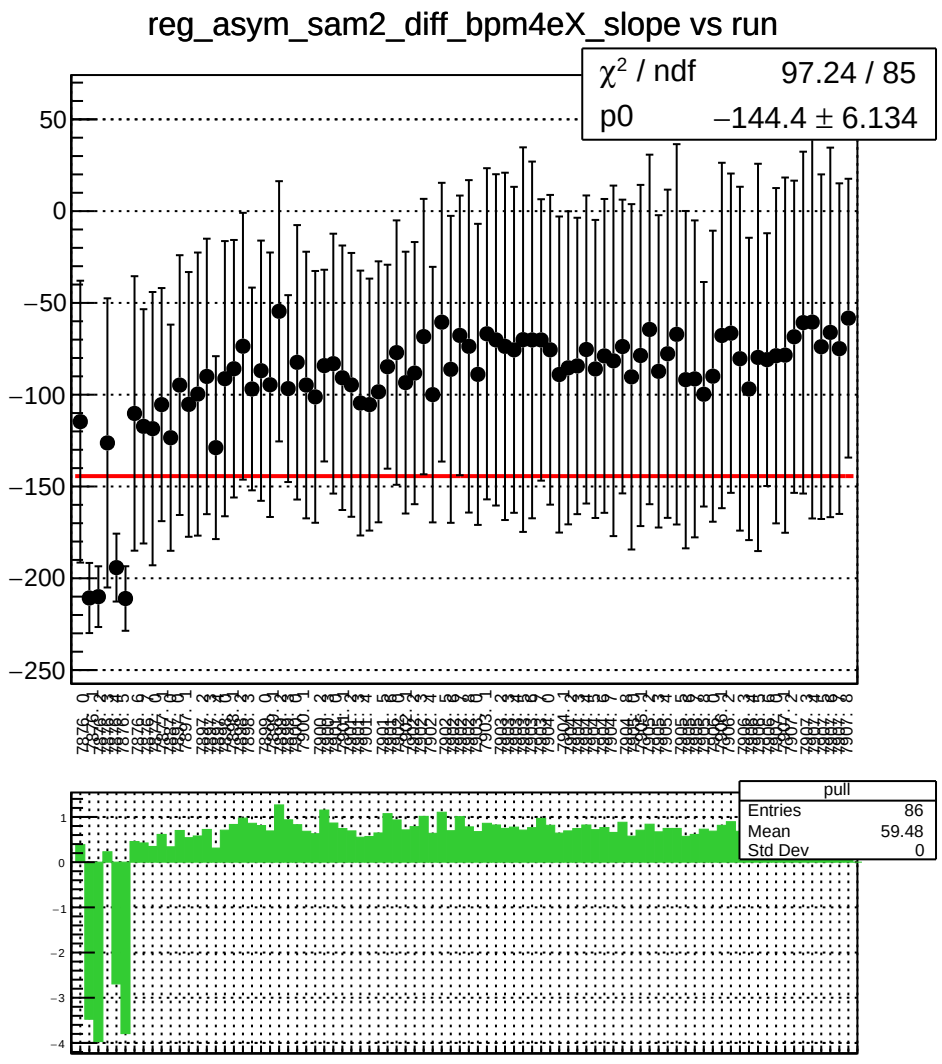

pull1D
Entries 86
Mean 0.3896
Std Dev 1.193

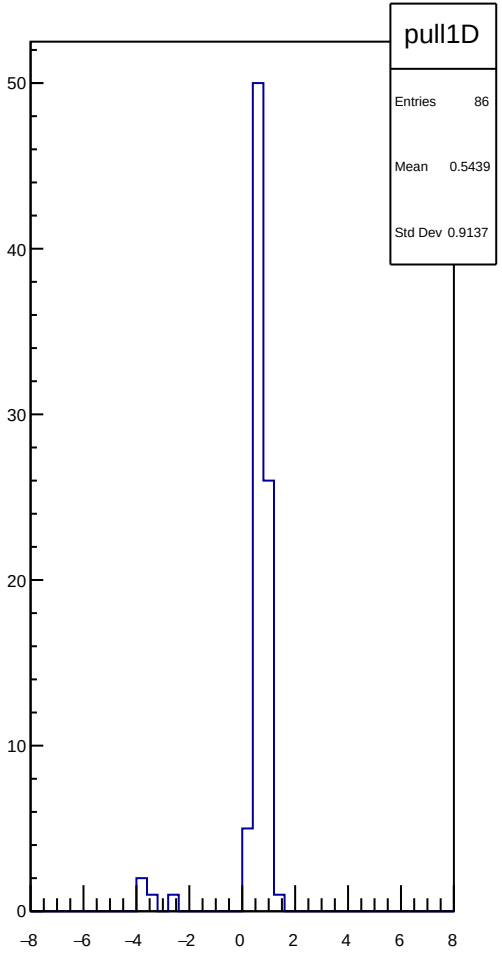

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 35.8 / 85
p0 21.93 ± 0.7161
pull
Entries 86
Mean −78.51
Std Dev 0
pull1D
Entries 86
Mean 0.01175
Std Dev 0.6451

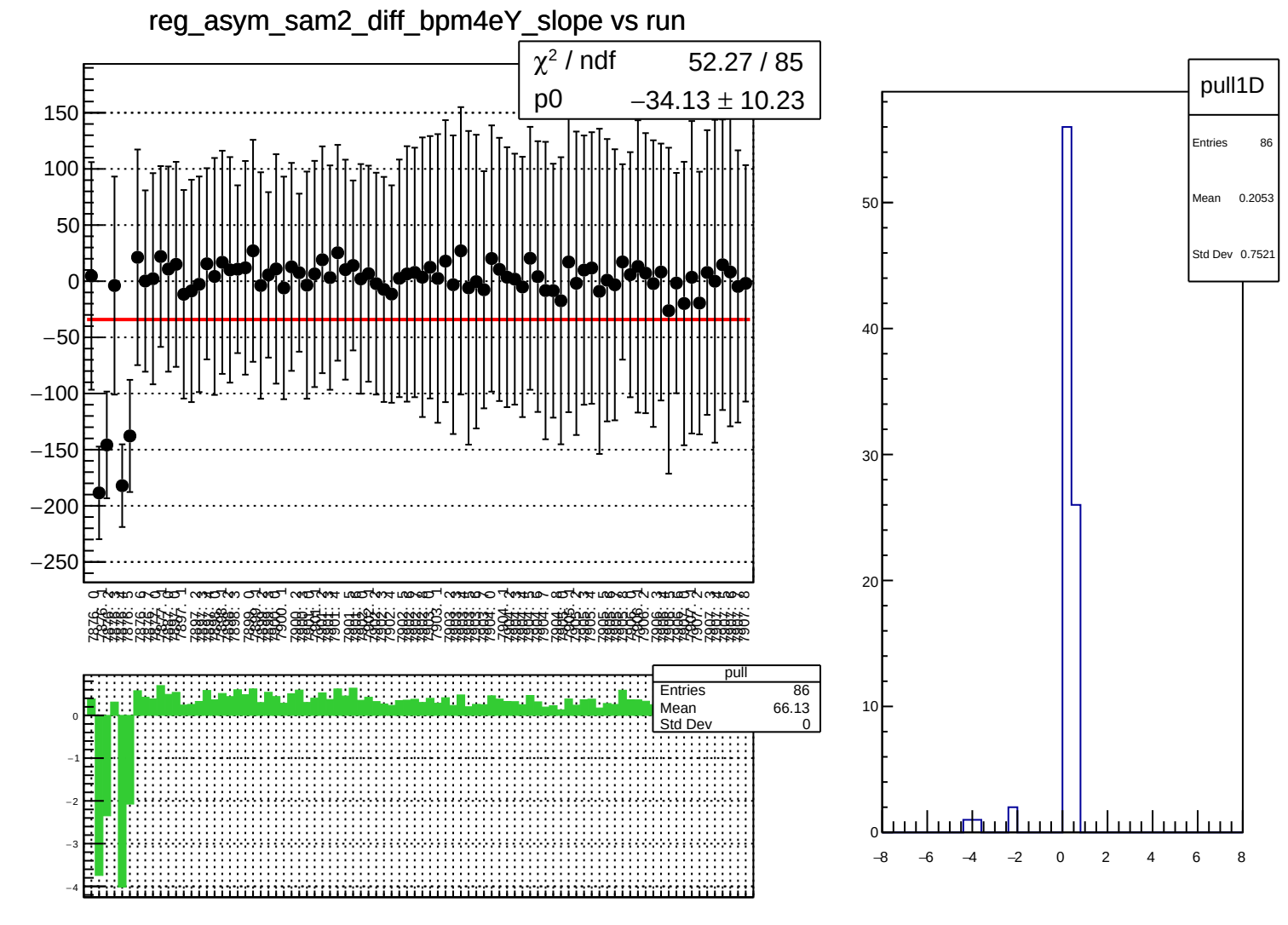

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 11.75 / 85
p0 0.2958 ± 0.02291
pull
Entries 86
Mean 106.1
Std Dev 0
pull1D
Entries 86
Mean 0.02385
Std Dev 0.3689

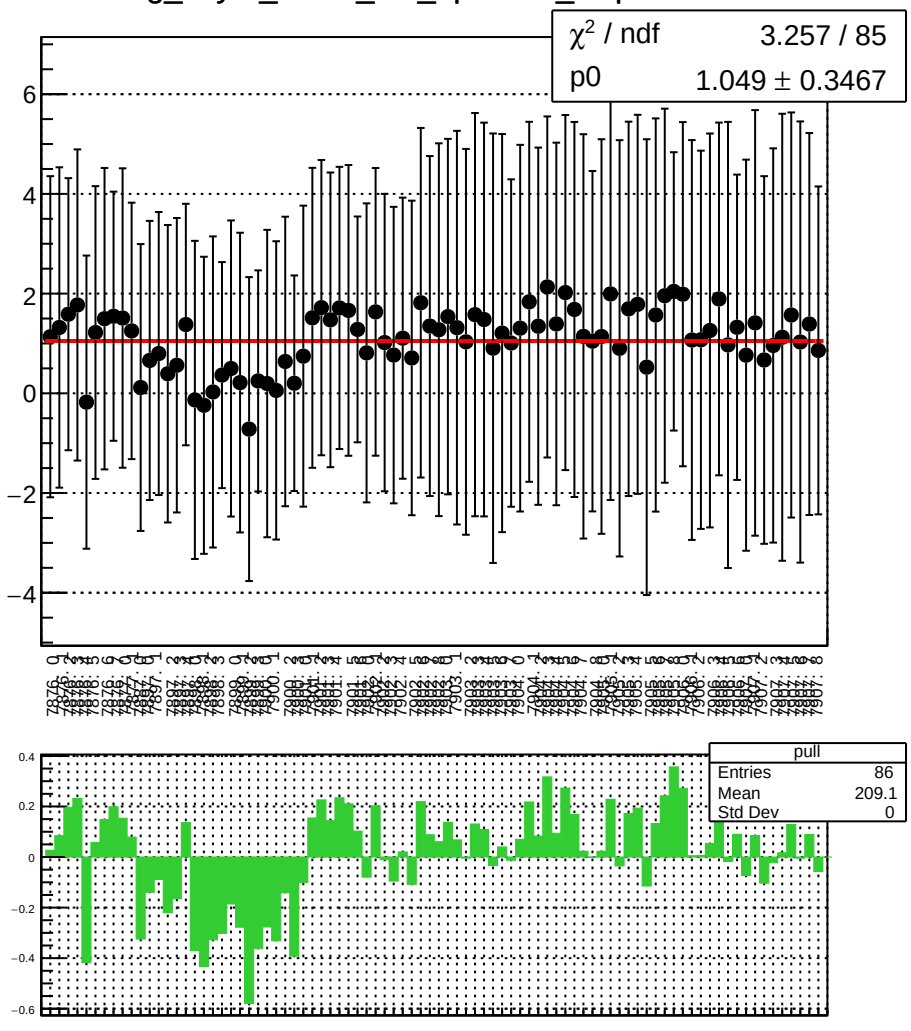

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 82.28 / 85
p0 −84.54 ± 7.643
pull
Entries 86
Mean 60.84
Std Dev 0
pull1D
Entries 86
Mean −0.4574
Std Dev 0.8646

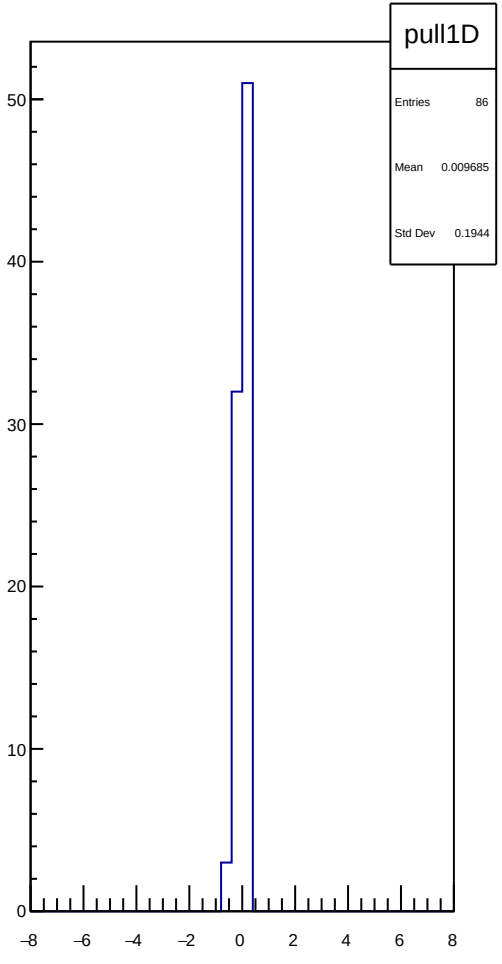

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 76.66 / 85
p0 −112.5 ± 8.211
pull
Entries 86
Mean 56.29
Std Dev 0
pull1D
Entries 86
Mean −0.3492
Std Dev 0.8772

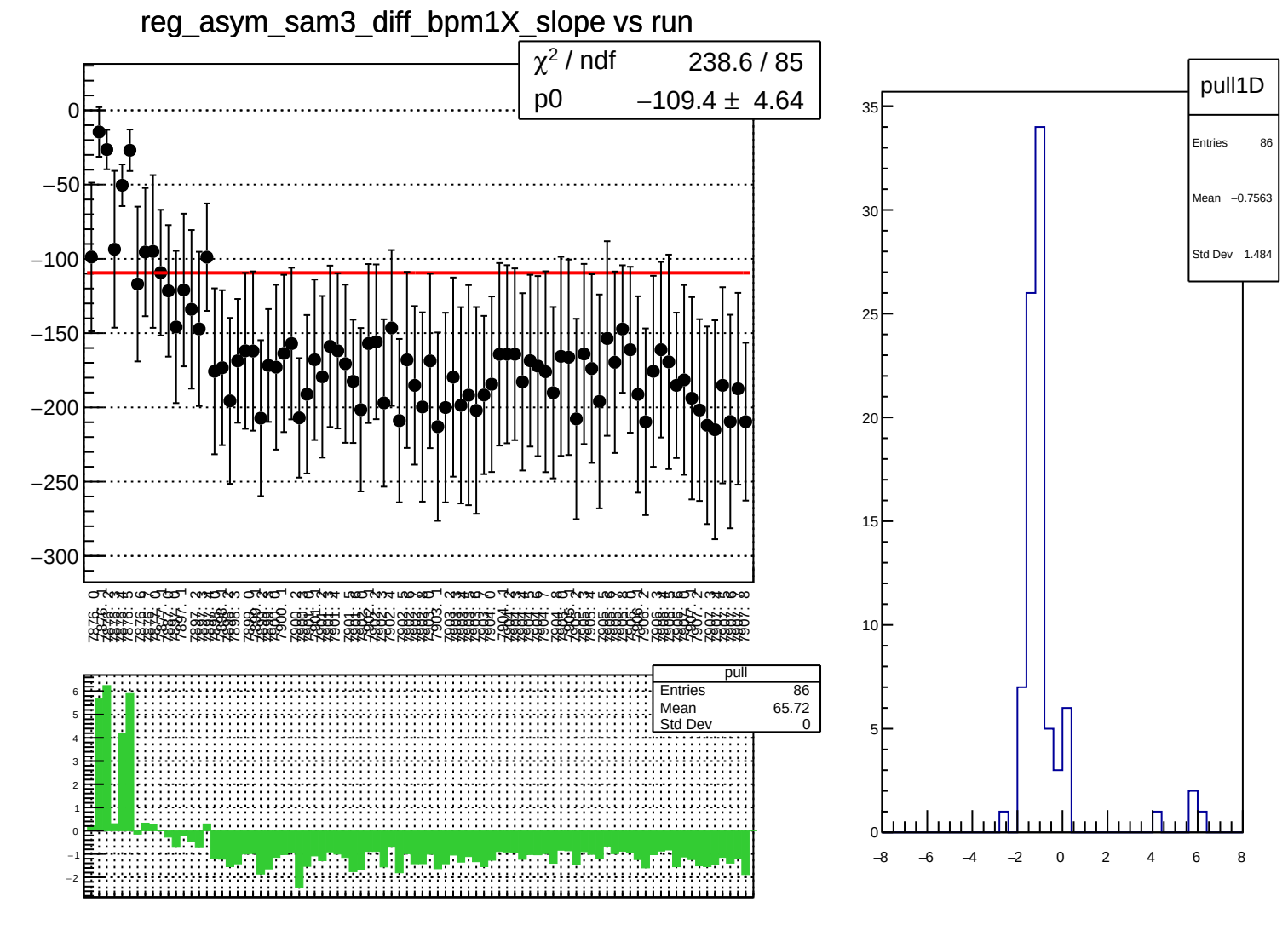

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 97.24 / 85
p0 −144.4 ± 6.134
pull
Entries 86
Mean 59.48
Std Dev 0

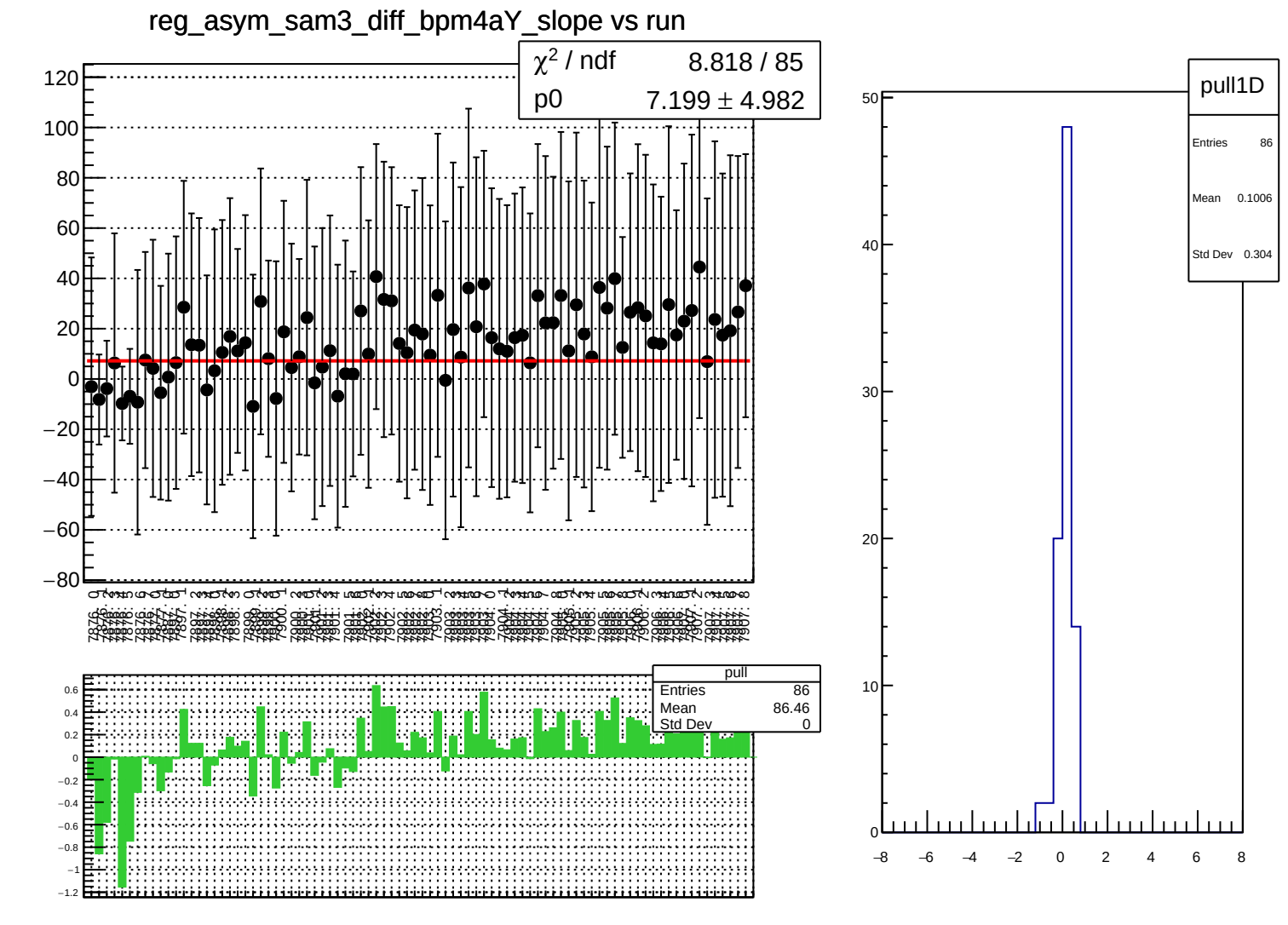

pull1D
Entries 86
Mean 0.5439
Std Dev 0.9137

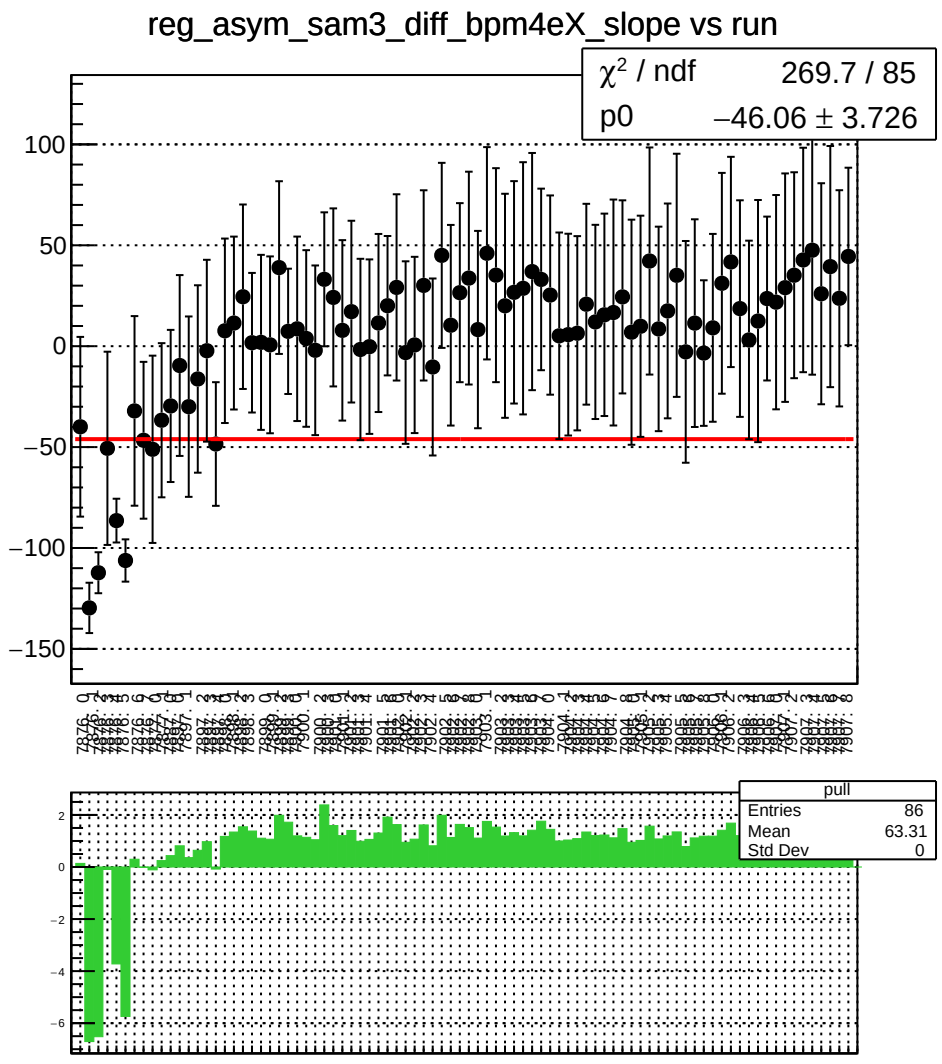

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 52.27 / 85
p0 −34.13 ± 10.23
pull
Entries 86
Mean 66.13
Std Dev 0
pull1D
Entries 86
Mean 0.2053
Std Dev 0.7521

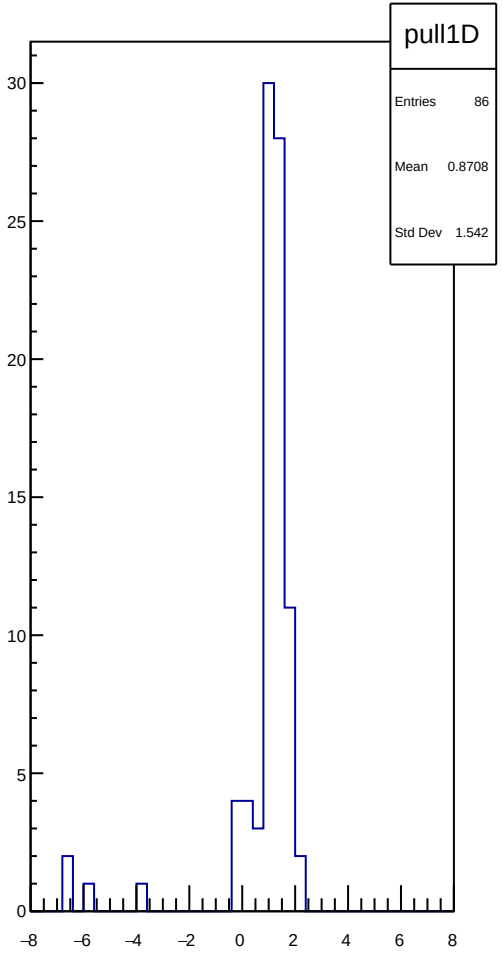

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 3.257 / 85
p0 1.049 ± 0.3467
pull
Entries 86
Mean 209.1
Std Dev 0

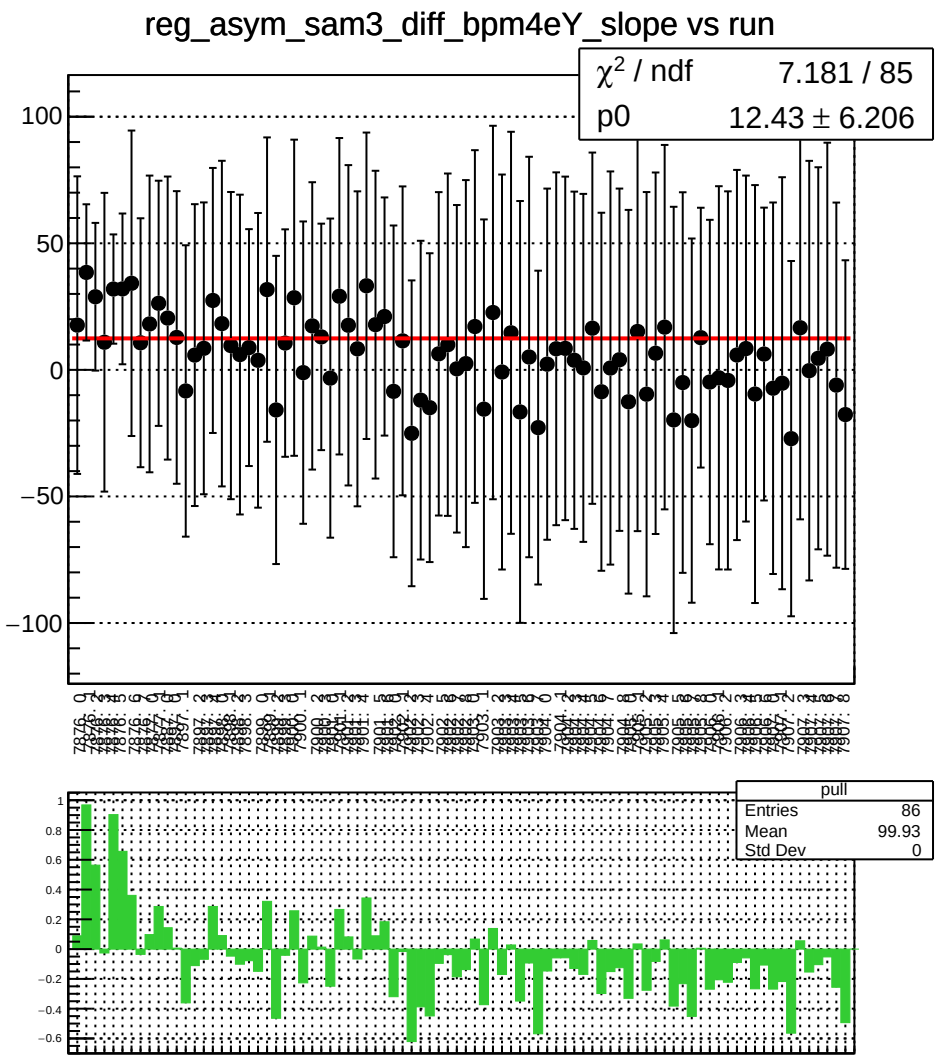

pull1D
Entries 86
Mean 0.009685
Std Dev 0.1944

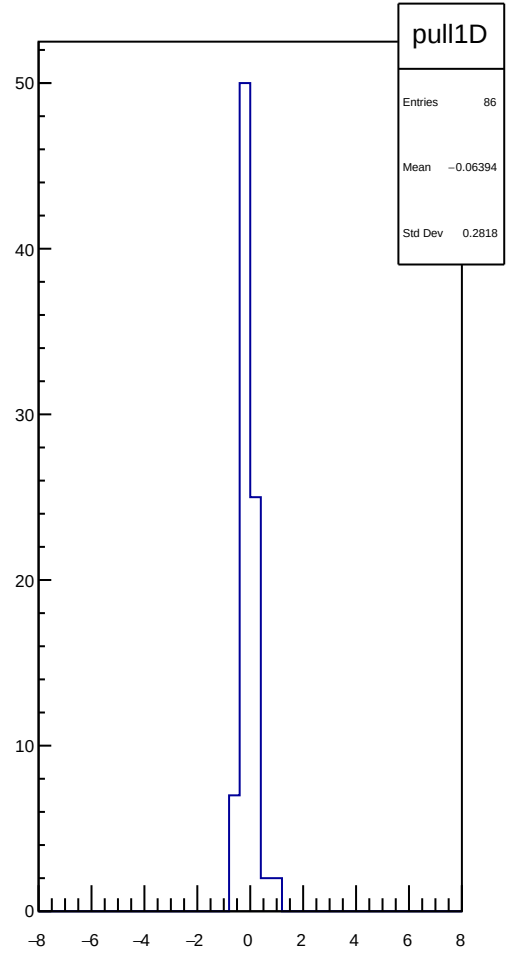

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 238.6 / 85
p0 −109.4 ± 4.64
pull
Entries 86
Mean 65.72
Std Dev 0
pull1D
Entries 86
Mean −0.7563
Std Dev 1.484

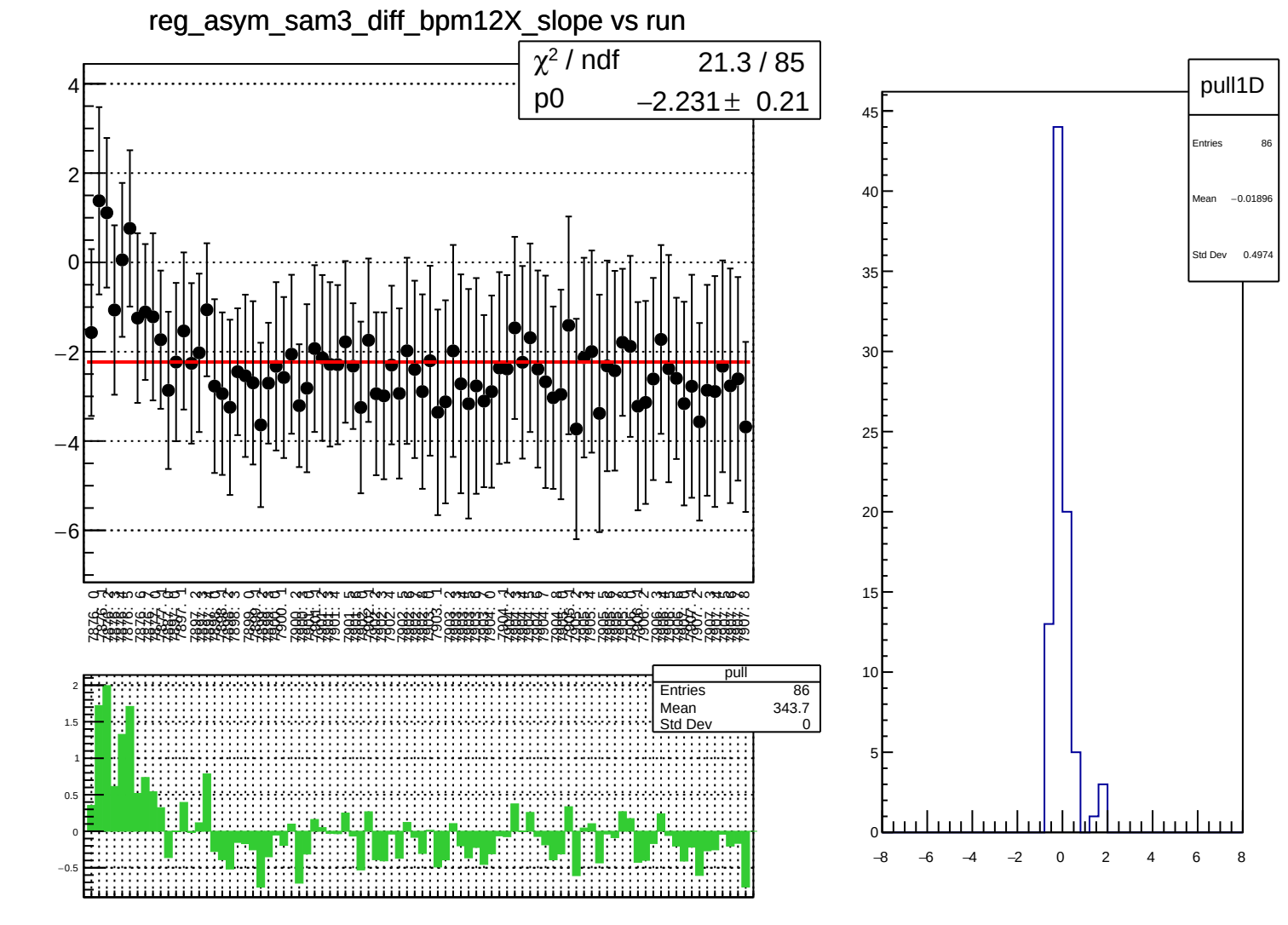

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 8.818 / 85
p0 7.199 ± 4.982
pull
Entries 86
Mean 86.46
Std Dev 0
pull1D
Entries 86
Mean 0.1006
Std Dev 0.304

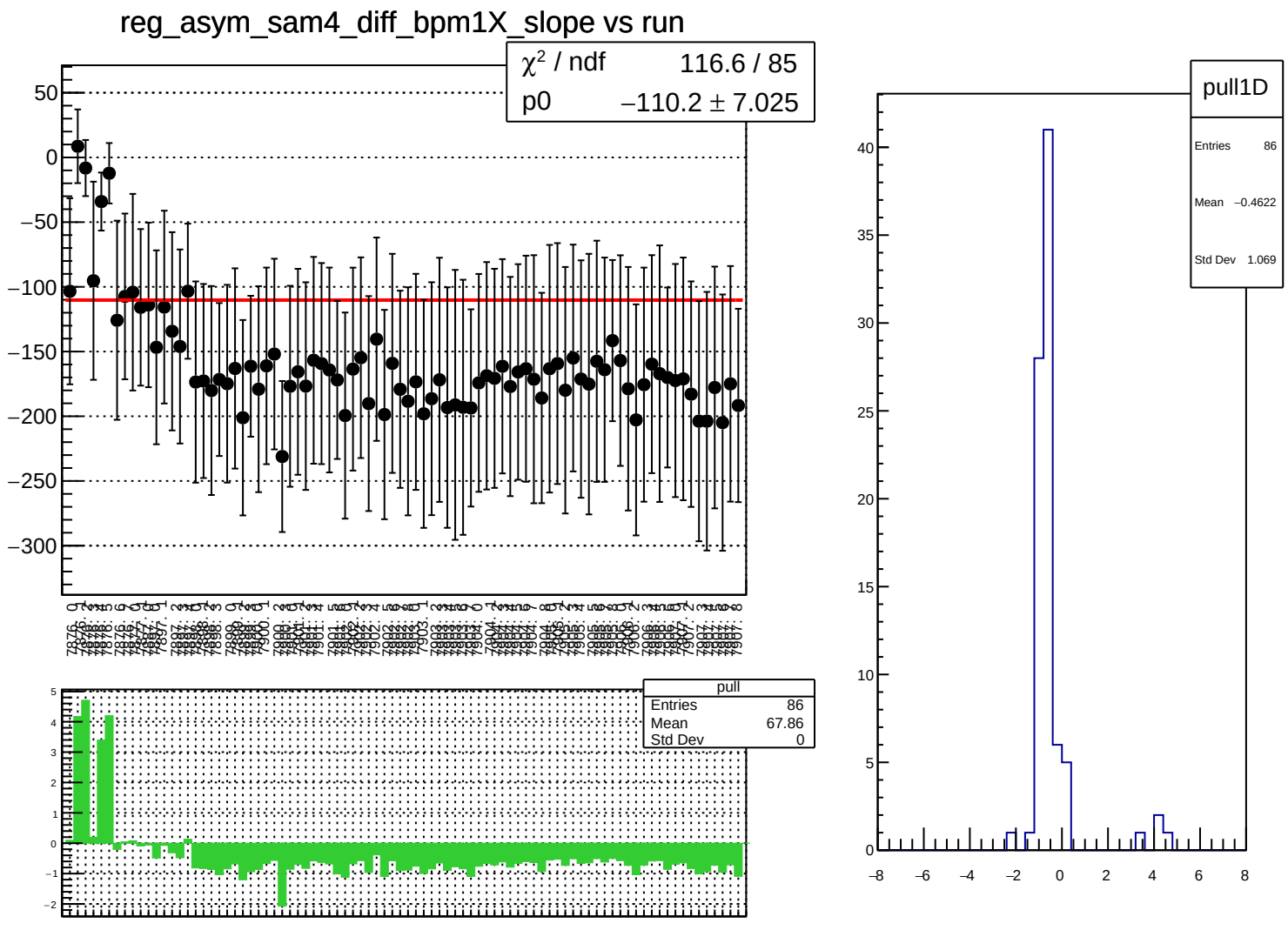

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 269.7 / 85
p0 −46.06 ± 3.726
pull
Entries 86
Mean 63.31
Std Dev 0

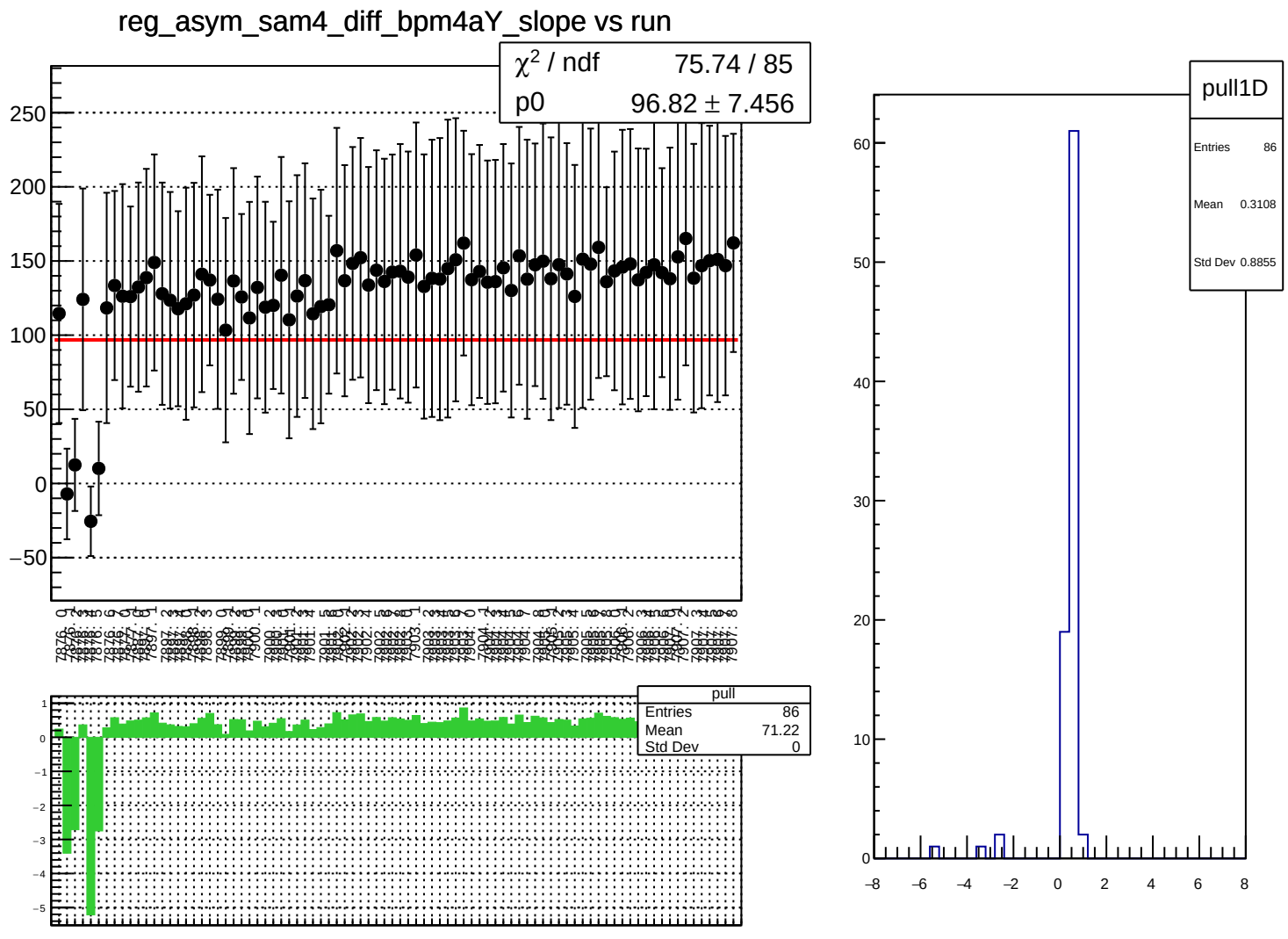

pull1D
Entries 86
Mean 0.8708
Std Dev 1.542

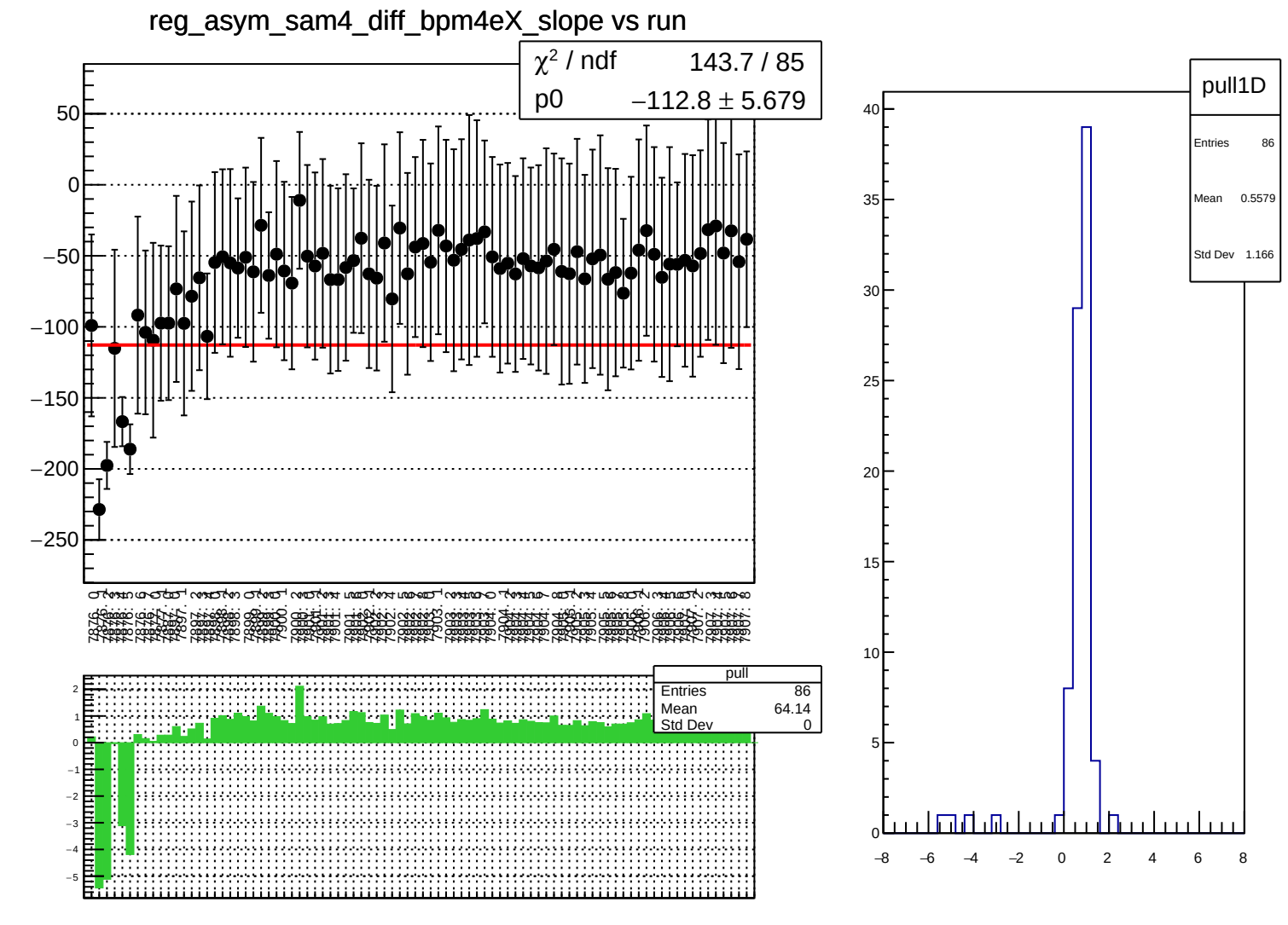

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 7.181 / 85
p0 12.43 ± 6.206
100
50
0
−50
−100
pull
Entries 86
Mean 99.93
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

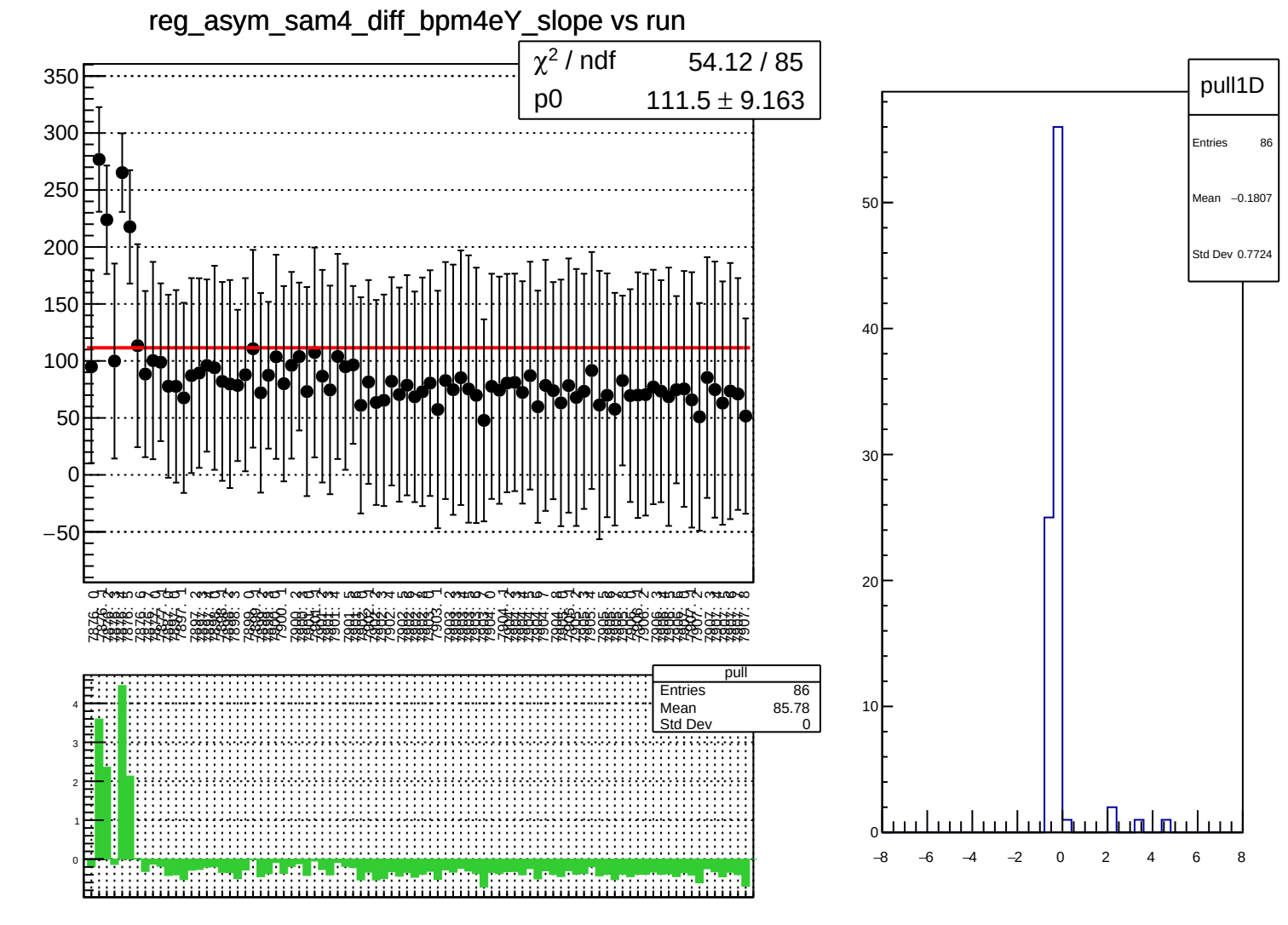

pull1D
Entries 86
Mean −0.06394
Std Dev 0.2818
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

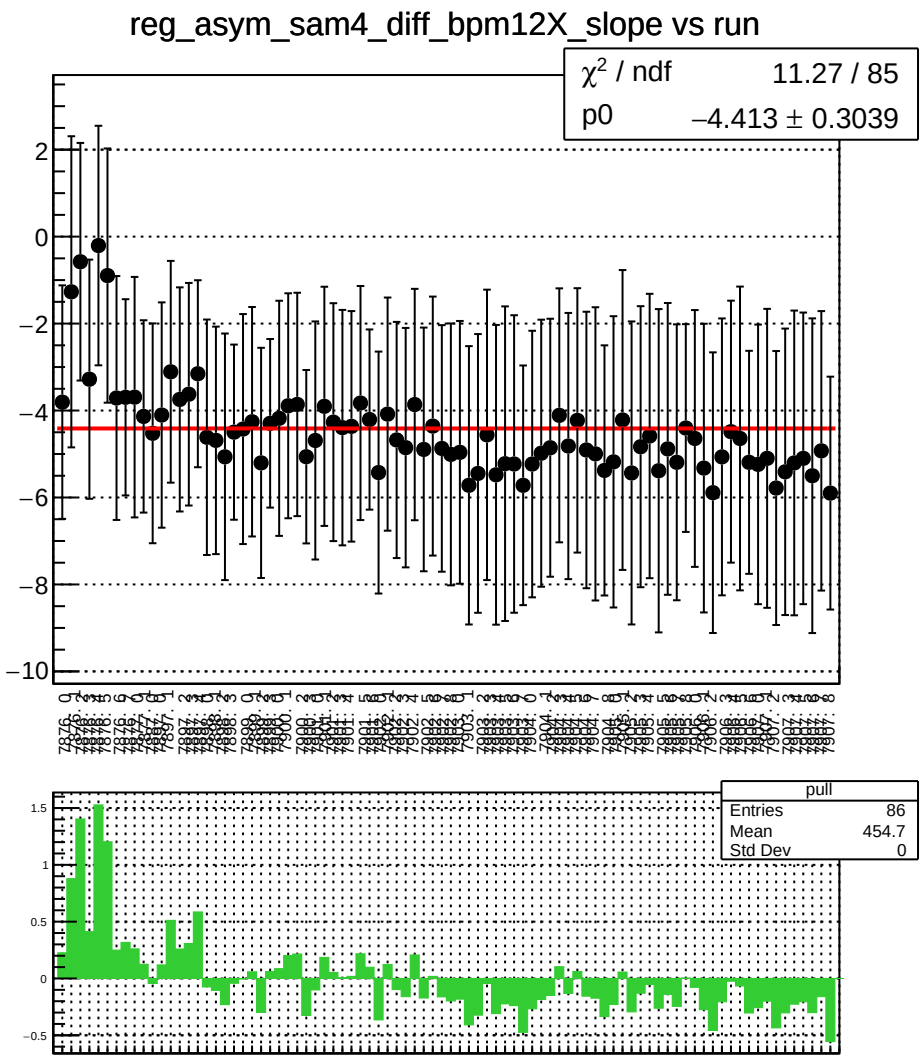

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 21.3 / 85
p0 −2.231 ± 0.21
pull
Entries 86
Mean 343.7
Std Dev 0
pull1D
Entries 86
Mean −0.01896
Std Dev 0.4974

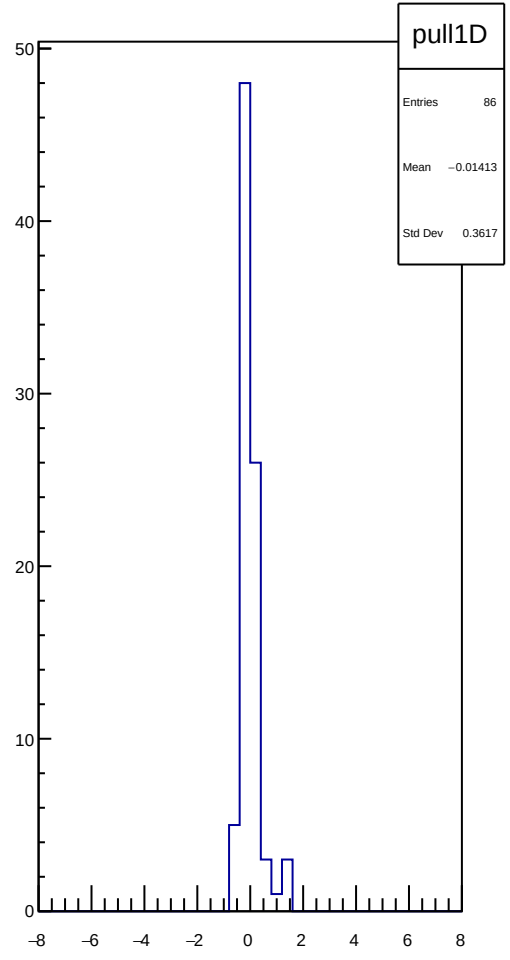

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 116.6 / 85
p0 −110.2 ± 7.025
pull
Entries 86
Mean 67.86
Std Dev 0
pull1D
Entries 86
Mean −0.4622
Std Dev 1.069

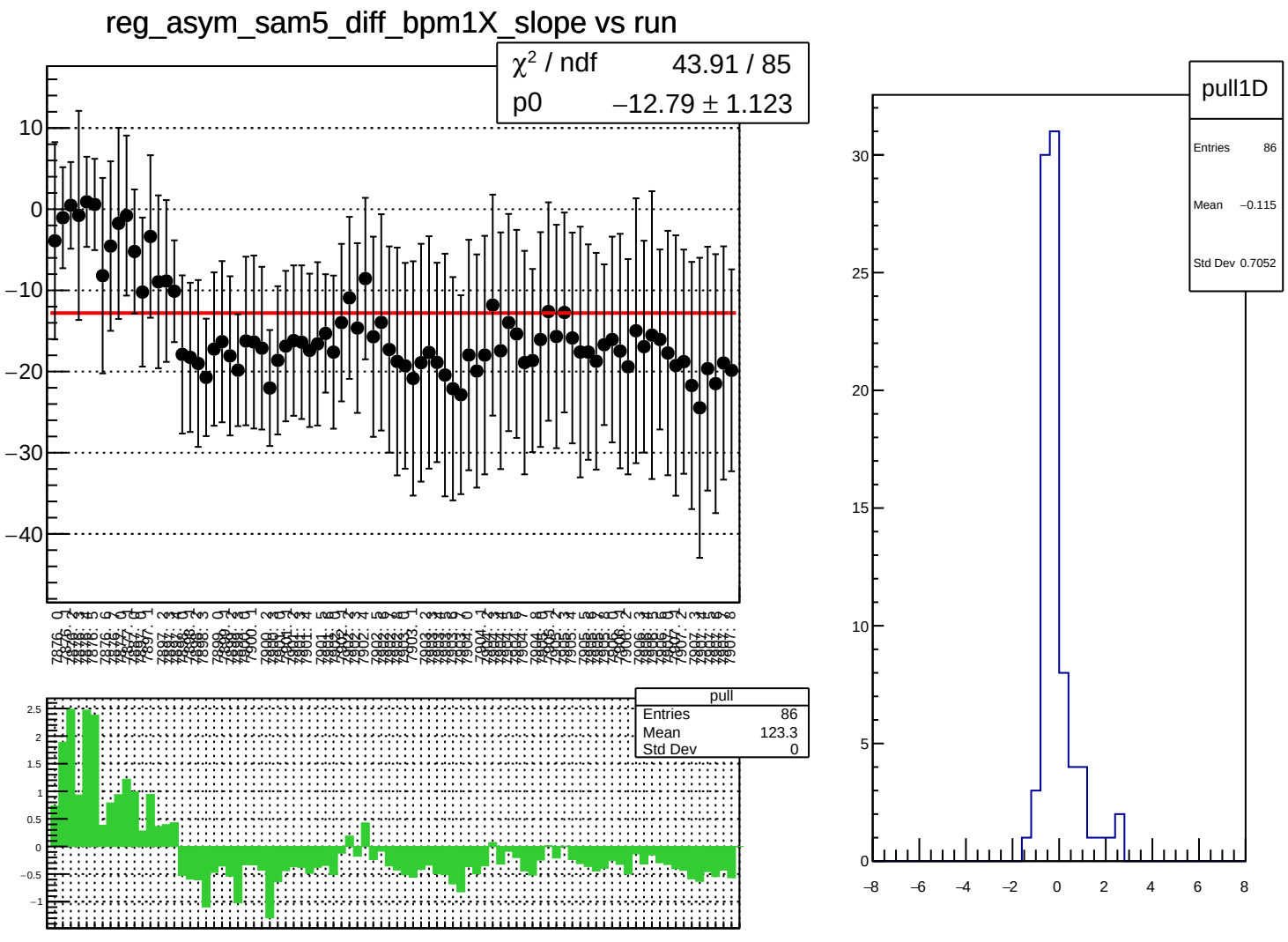

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 75.74 / 85
p0 96.82 ± 7.456
250
200
150
100
50
0
−50
pull
Entries 86
Mean 71.22
Std Dev 0
1
0
−1
−2
−3
−4
−5
pull1D
Entries 86
Mean 0.3108
Std Dev 0.8855
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

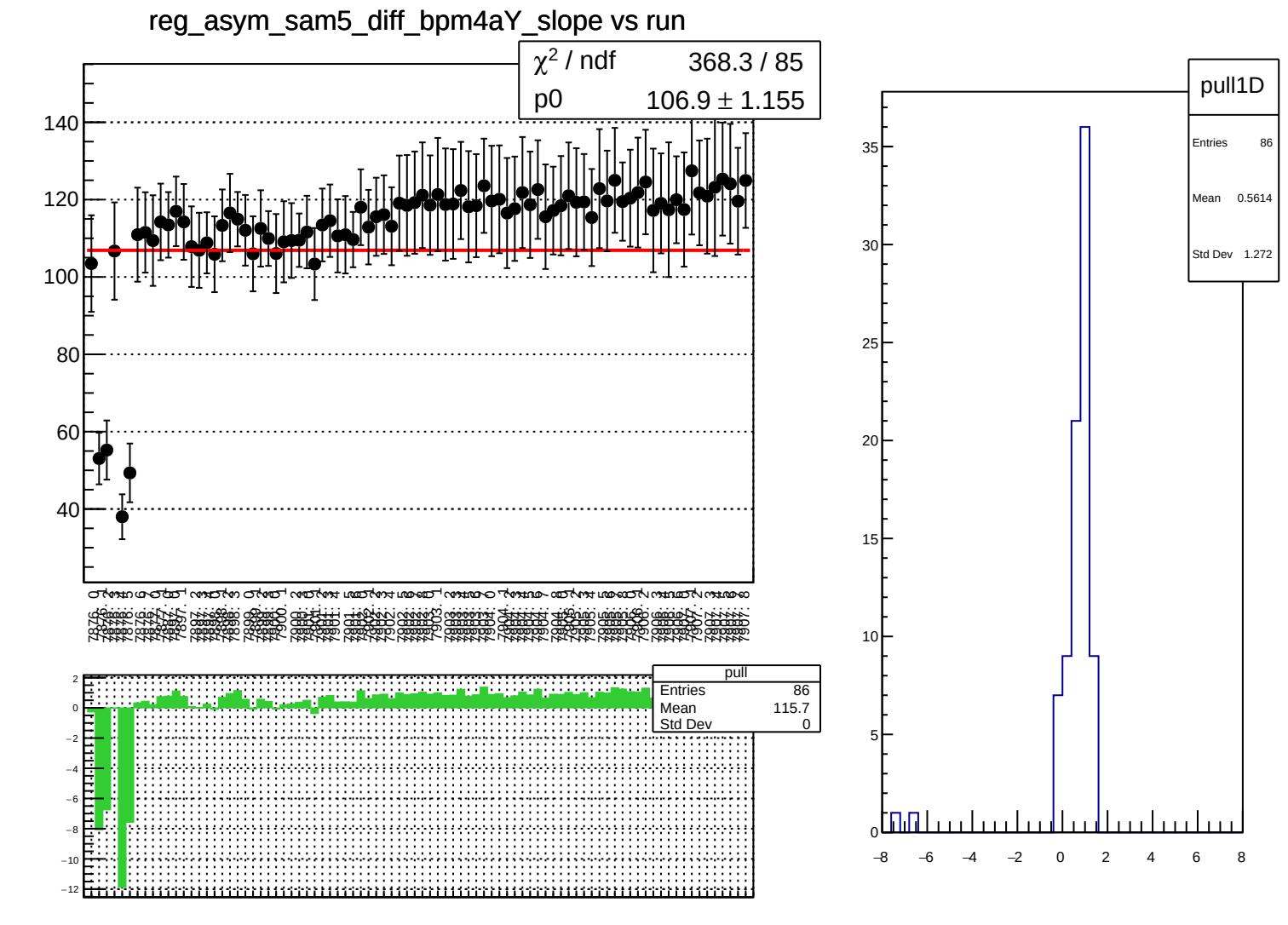

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 143.7 / 85
p0 −112.8 ± 5.679
pull
Entries 86
Mean 64.14
Std Dev 0
pull1D
Entries 86
Mean 0.5579
Std Dev 1.166

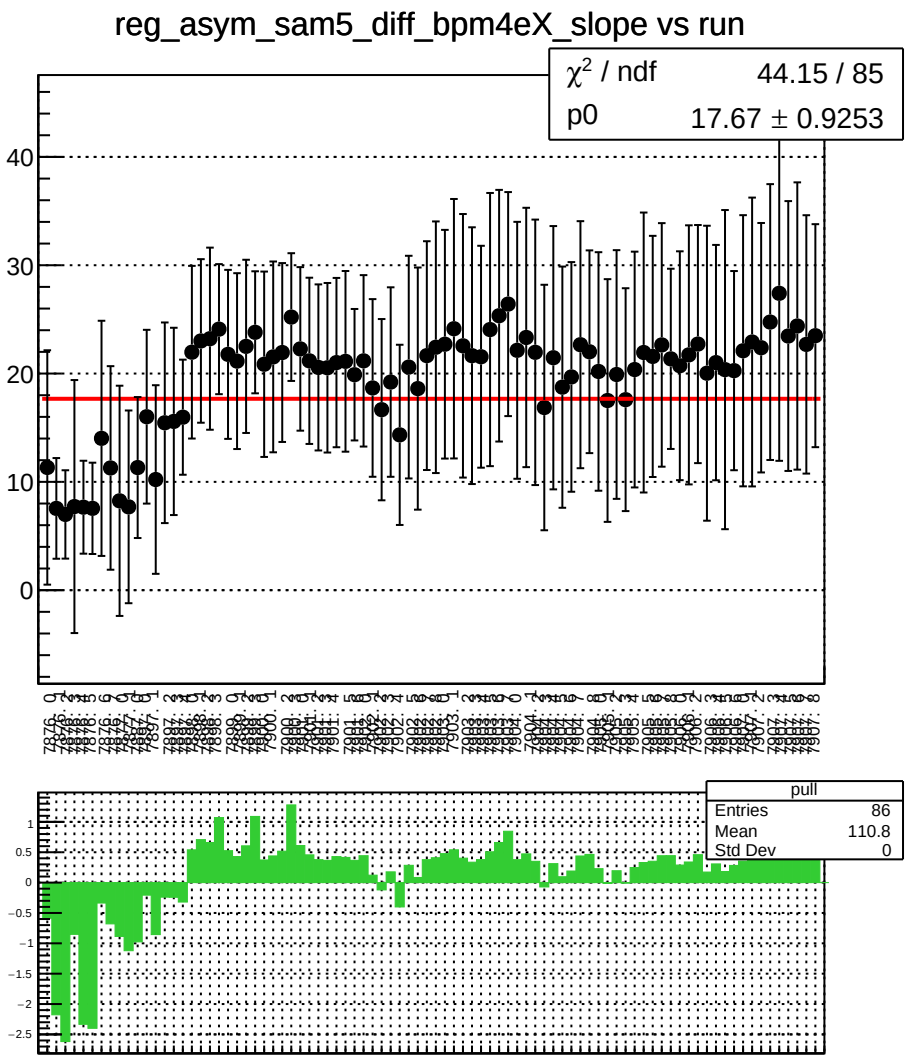

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 54.12 / 85
p0 111.5 ± 9.163
pull
Entries 86
Mean 85.78
Std Dev 0
pull1D
Entries 86
Mean −0.1807
Std Dev 0.7724

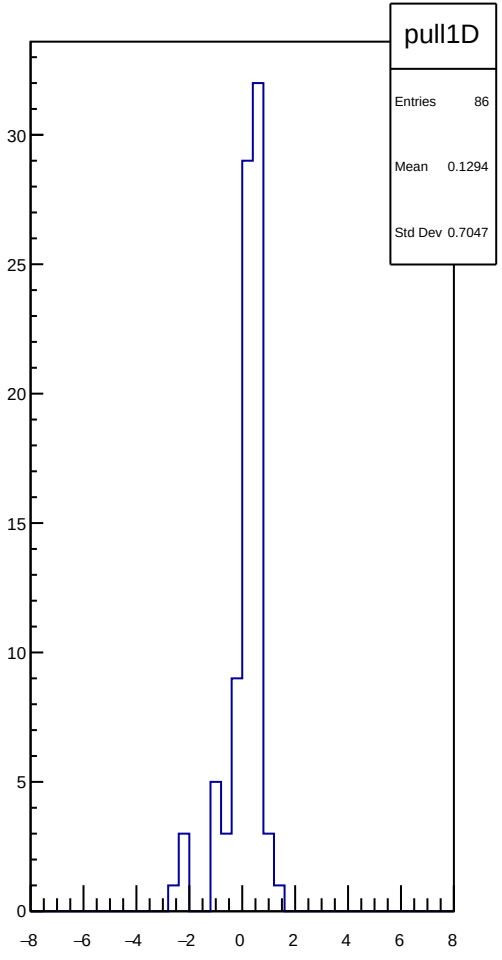

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 11.27 / 85
p0 −4.413 ± 0.3039
pull
Entries 86
Mean 454.7
Std Dev 0

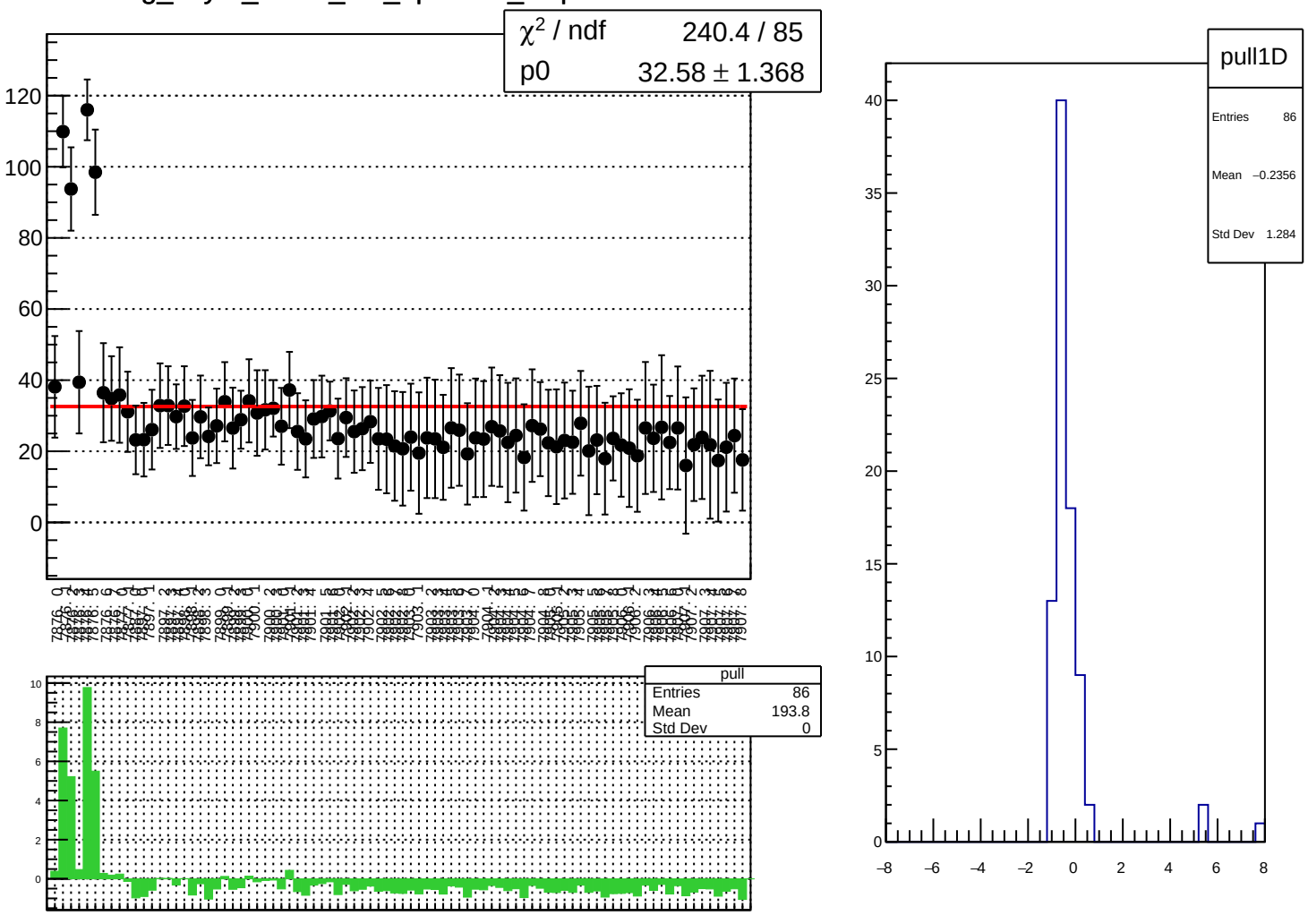

pull1D
Entries 86
Mean −0.01413
Std Dev 0.3617

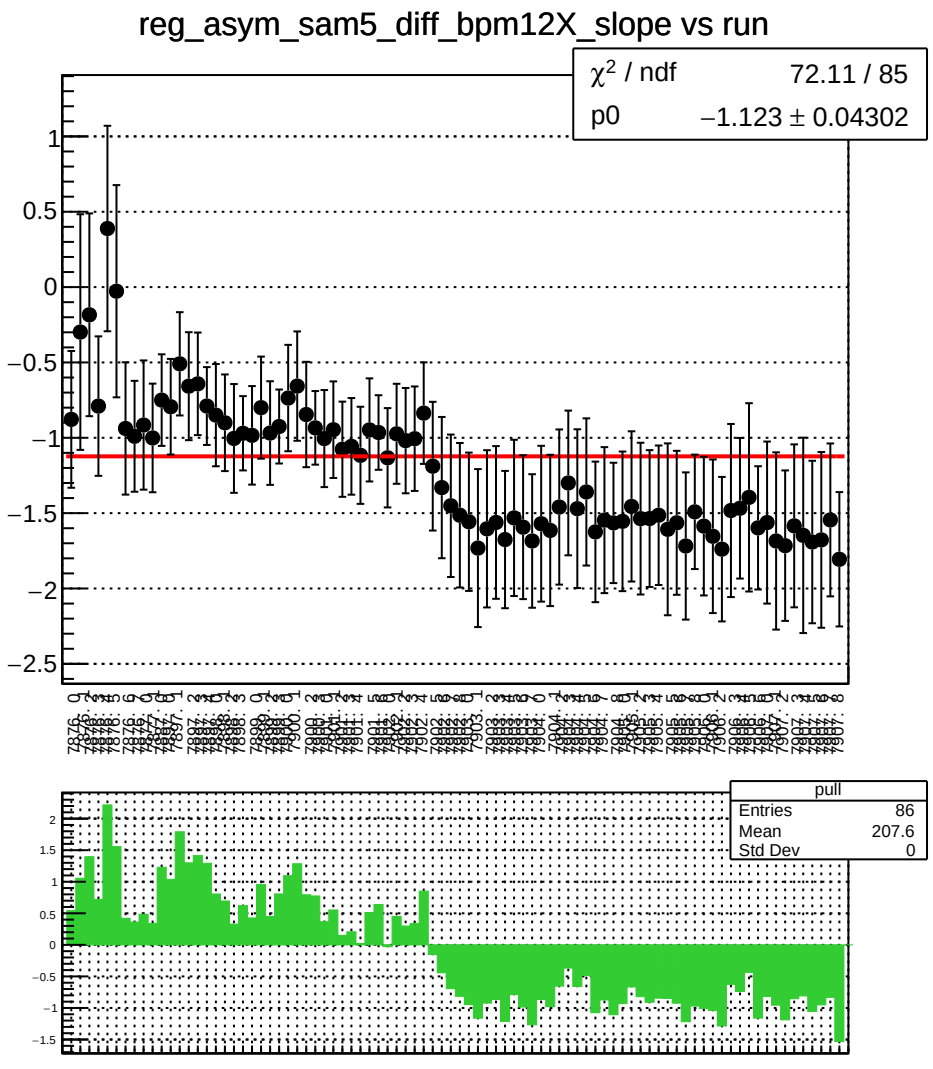

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 43.91 / 85
p0 −12.79 ± 1.123
pull
Entries 86
Mean 123.3
Std Dev 0
pull1D
Entries 86
Mean −0.115
Std Dev 0.7052

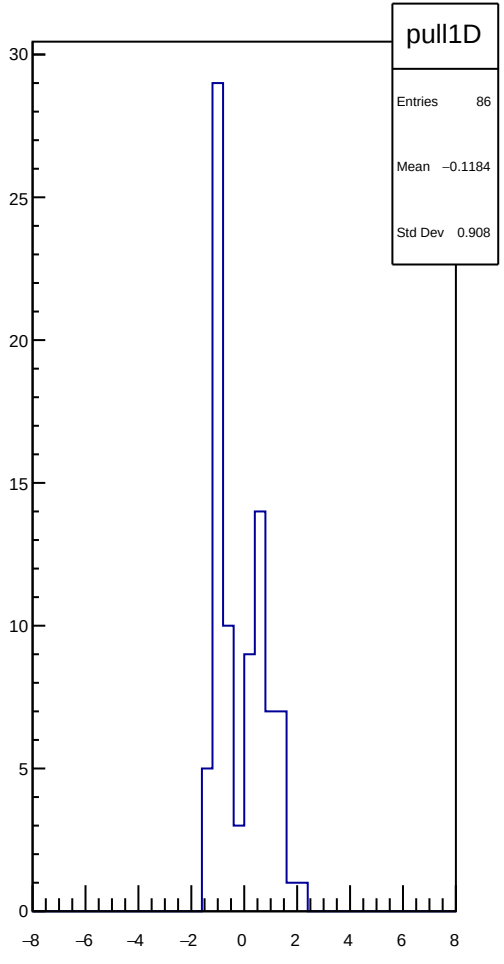

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 368.3 / 85
p0 106.9 ± 1.155
pull
Entries 86
Mean 115.7
Std Dev 0
pull1D
Entries 86
Mean 0.5614
Std Dev 1.272

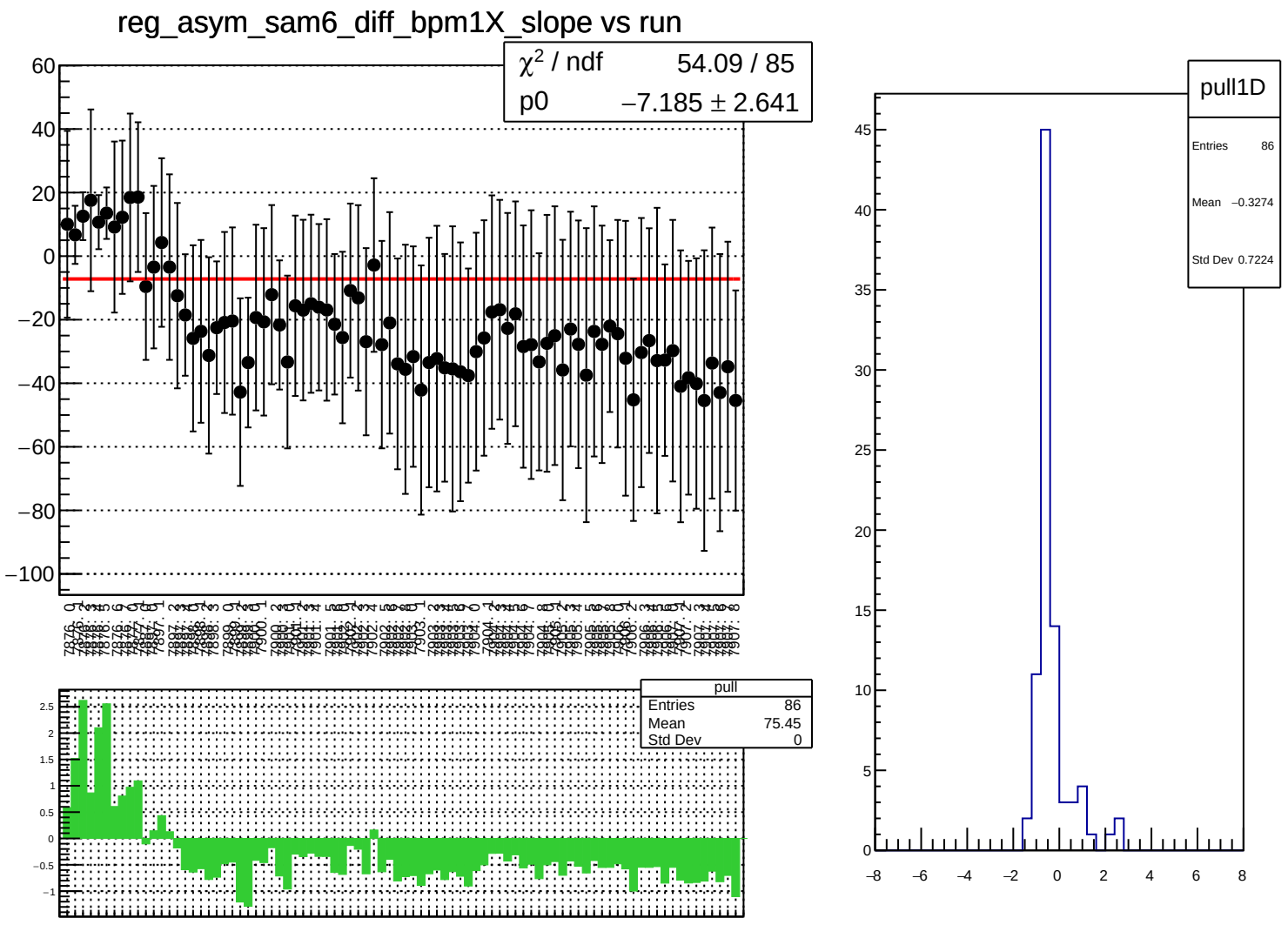

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 44.15 / 85
p0 17.67 ± 0.9253
pull
Entries 86
Mean 110.8
Std Dev 0

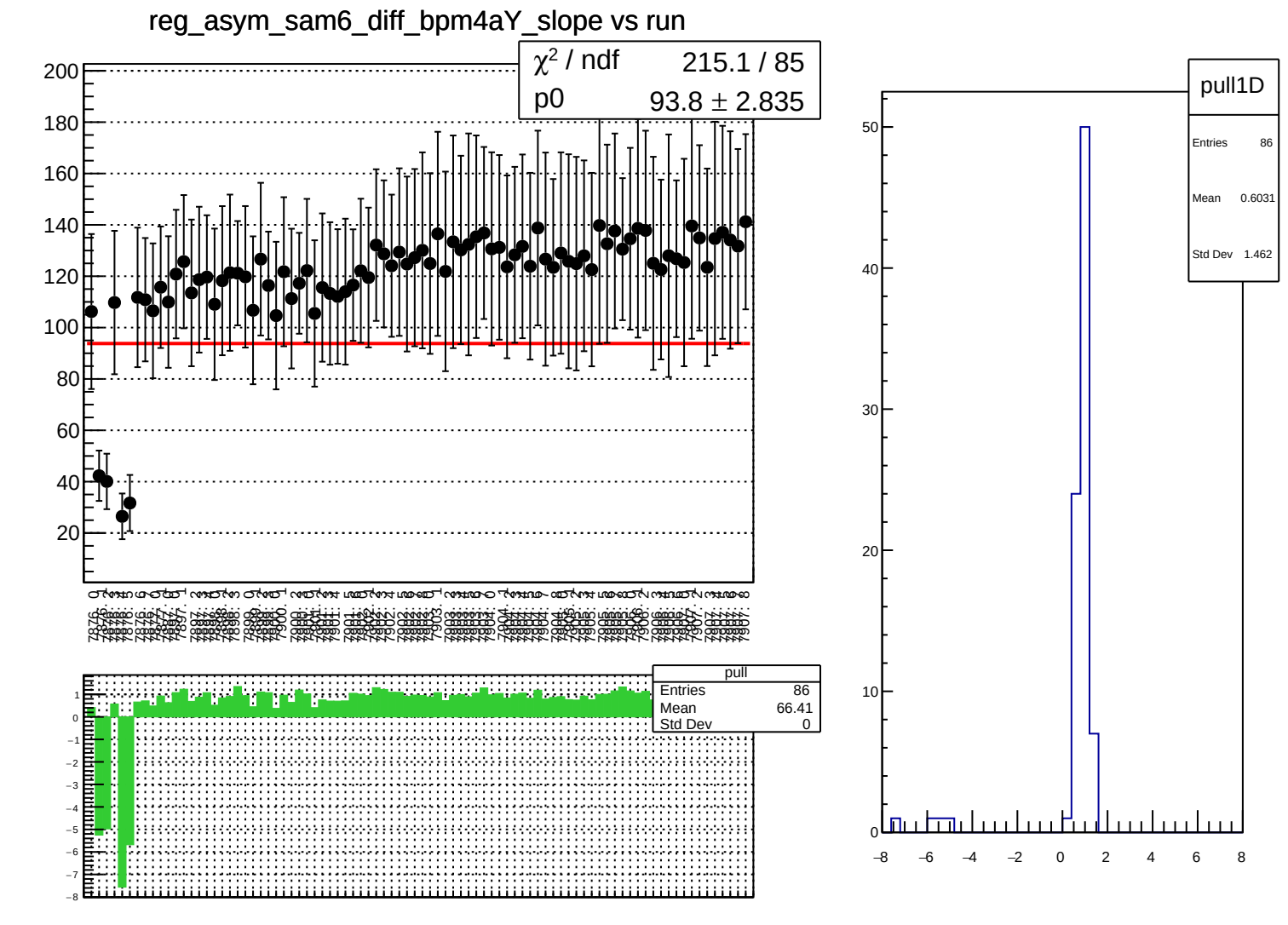

pull1D
Entries 86
Mean 0.1294
Std Dev 0.7047

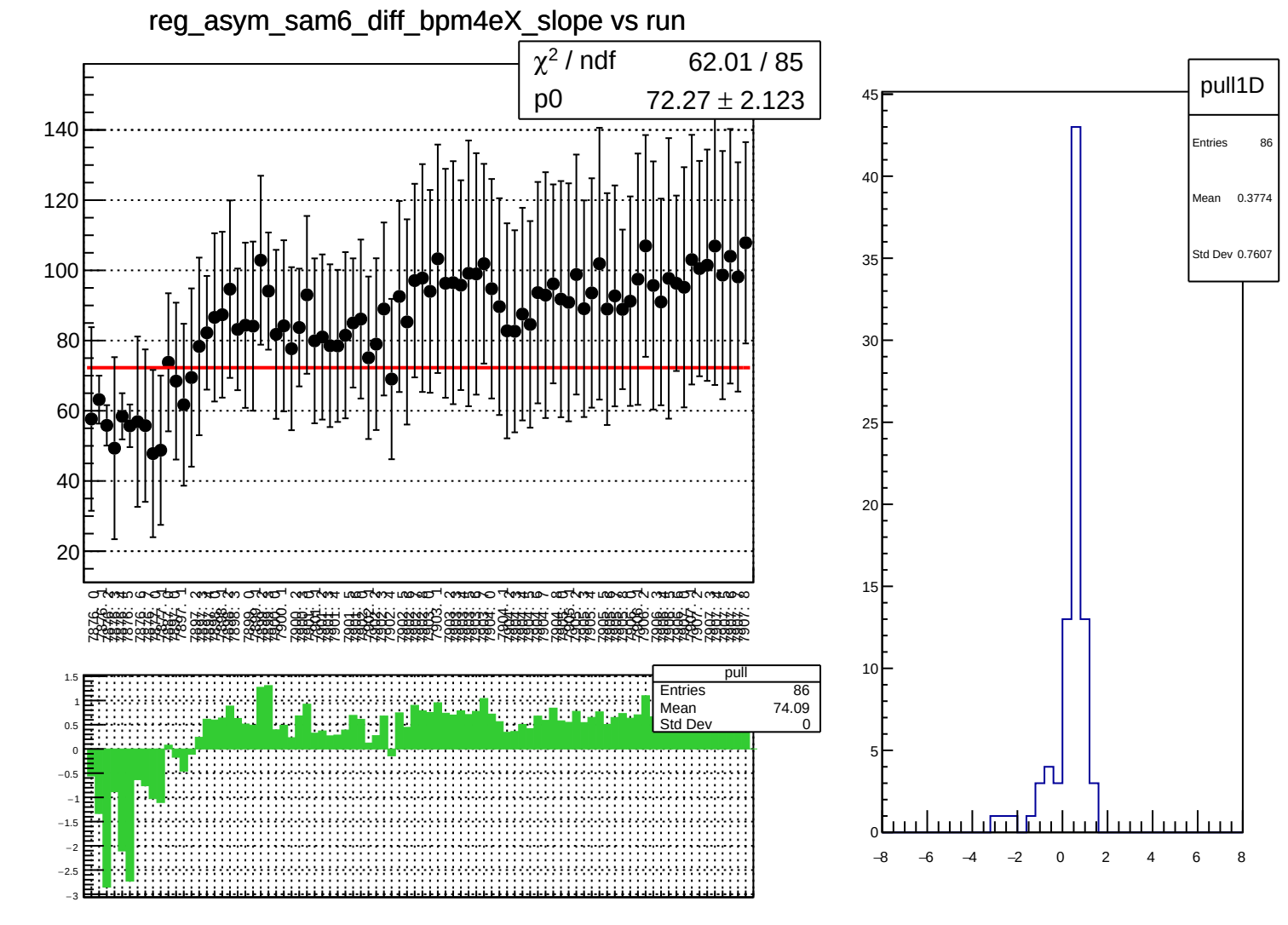

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 240.4 / 85
p0 32.58 ± 1.368
pull
Entries 86
Mean 193.8
Std Dev 0
pull1D
Entries 86
Mean −0.2356
Std Dev 1.284

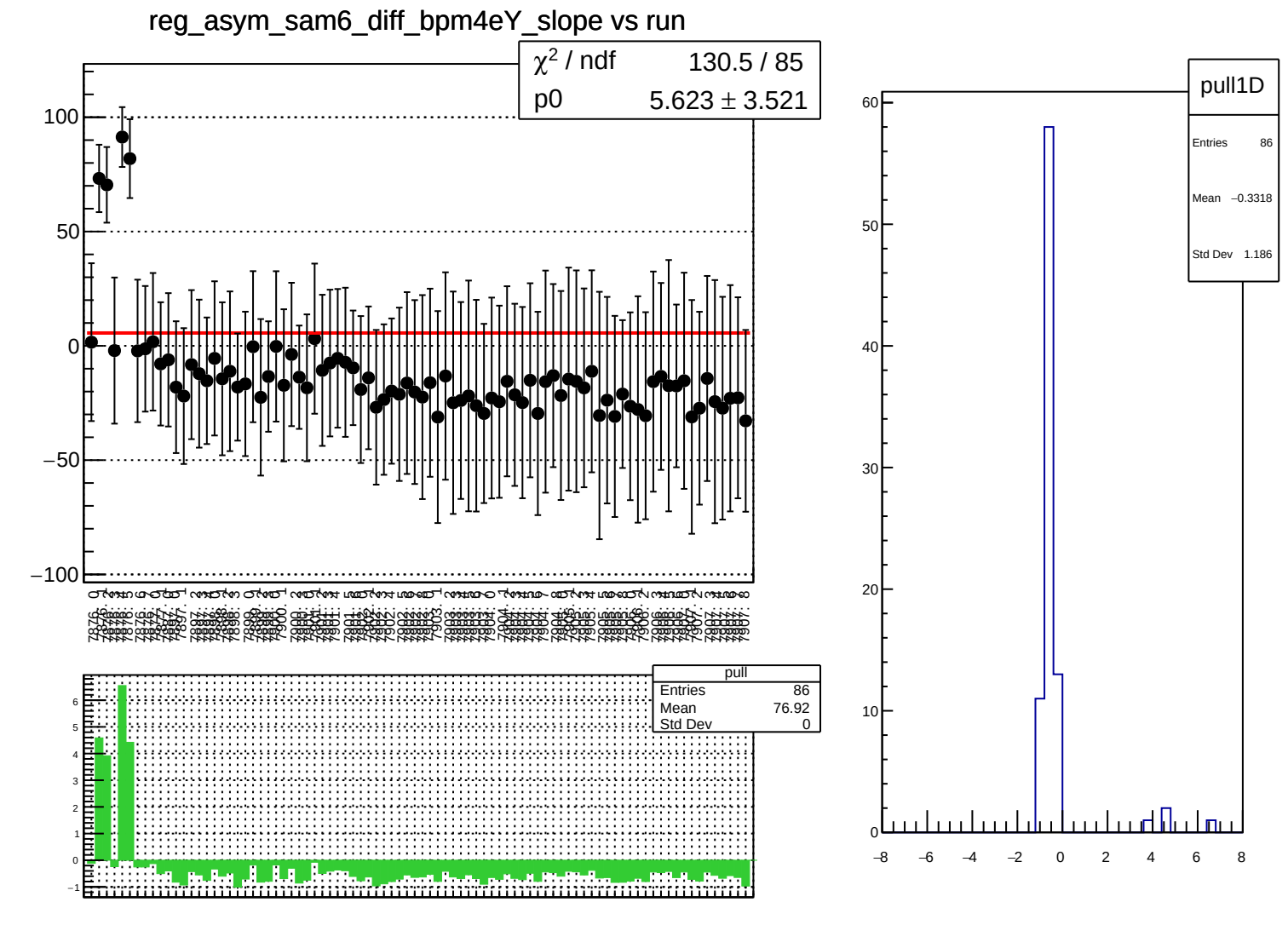

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 72.11 / 85
p0 −1.123 ± 0.04302
pull
Entries 86
Mean 207.6
Std Dev 0

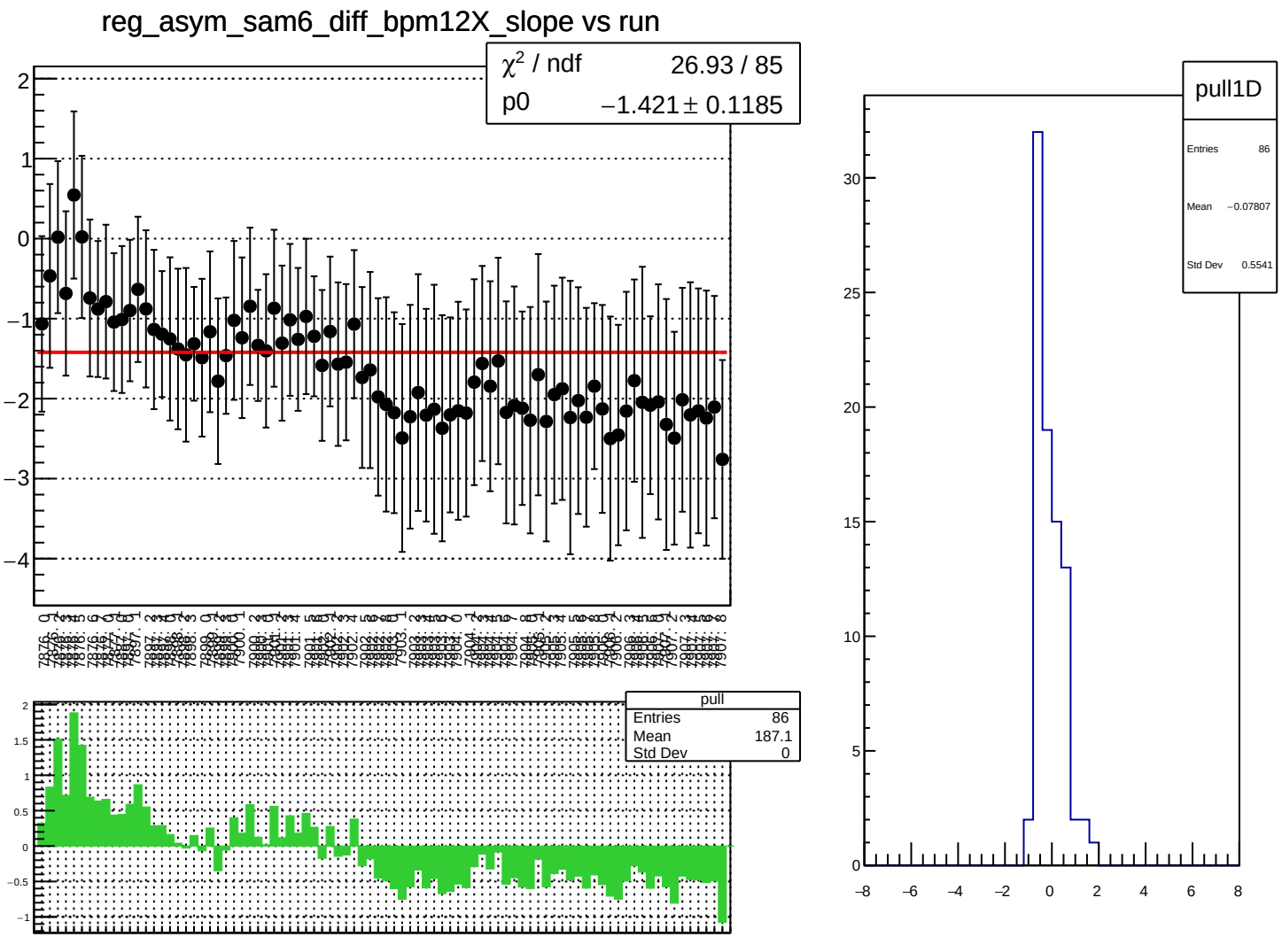

pull1D
Entries 86
Mean −0.1184
Std Dev 0.908

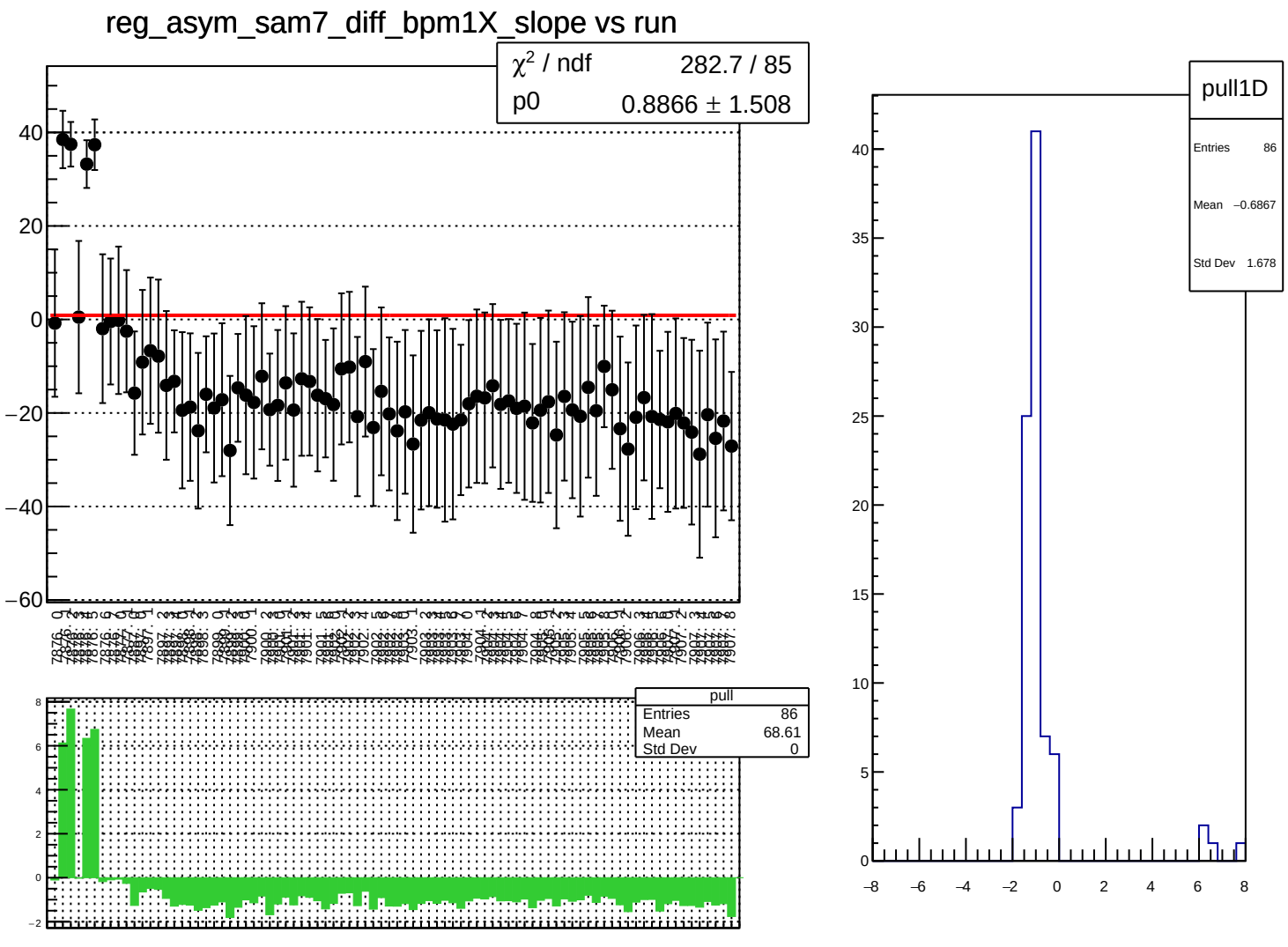

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 54.09 / 85
p0 −7.185 ± 2.641
pull
Entries 86
Mean 75.45
Std Dev 0
pull1D
Entries 86
Mean −0.3274
Std Dev 0.7224

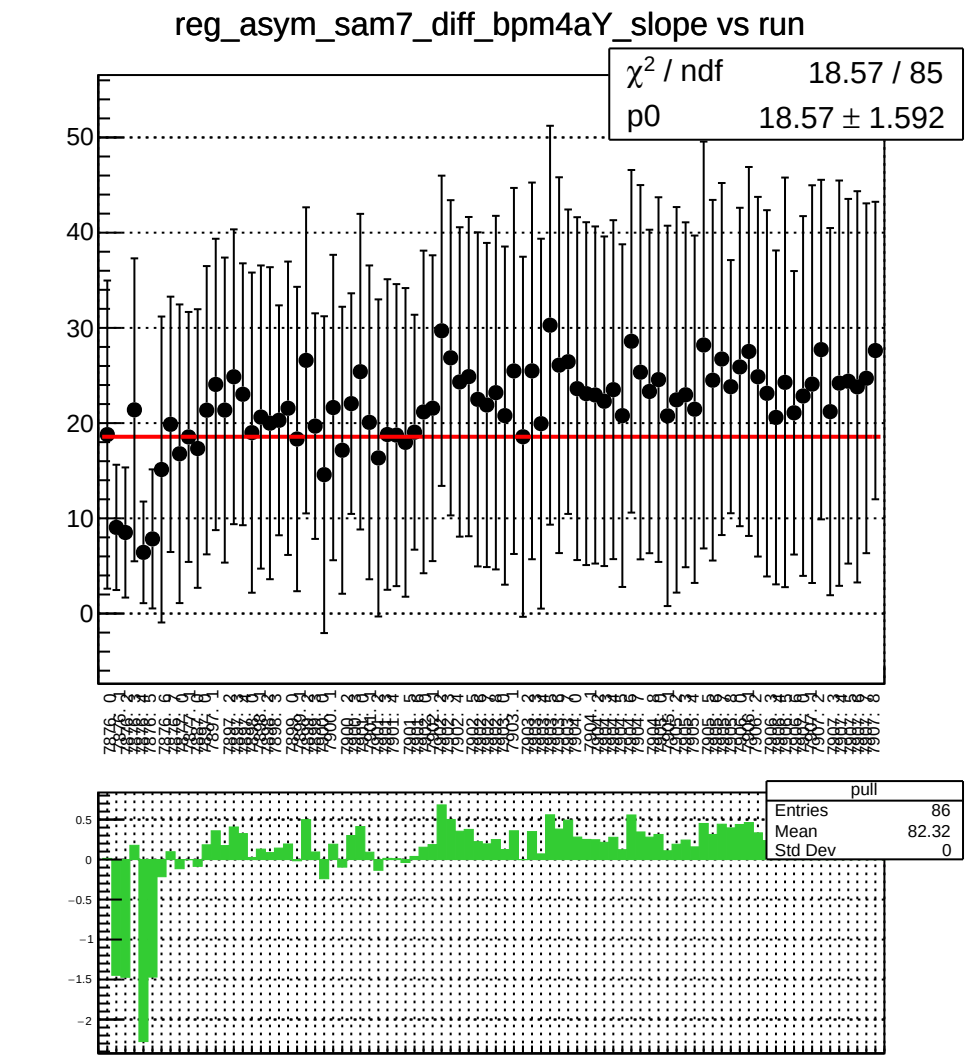

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 215.1 / 85
p0 93.8 ± 2.835
pull
Entries 86
Mean 66.41
Std Dev 0
pull1D
Entries 86
Mean 0.6031
Std Dev 1.462

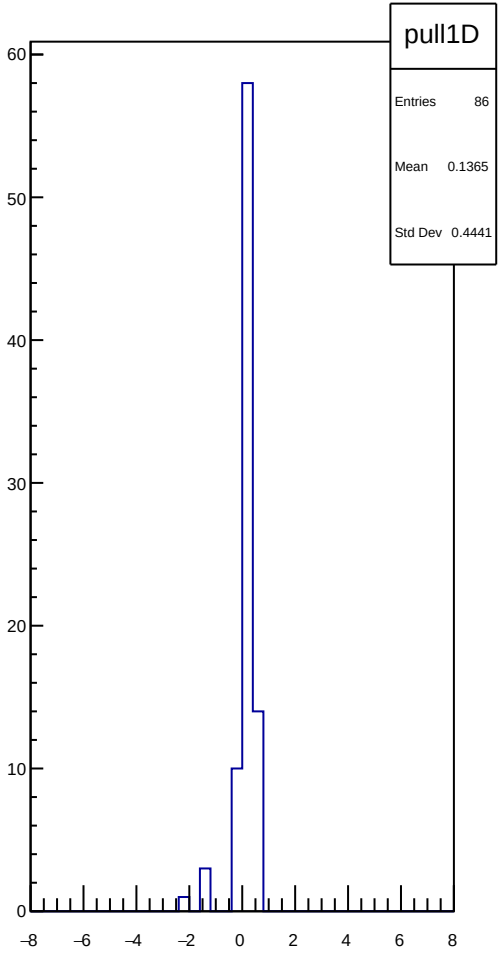

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 62.01 / 85
p0 72.27 ± 2.123
pull
Entries 86
Mean 74.09
Std Dev 0
pull1D
Entries 86
Mean 0.3774
Std Dev 0.7607

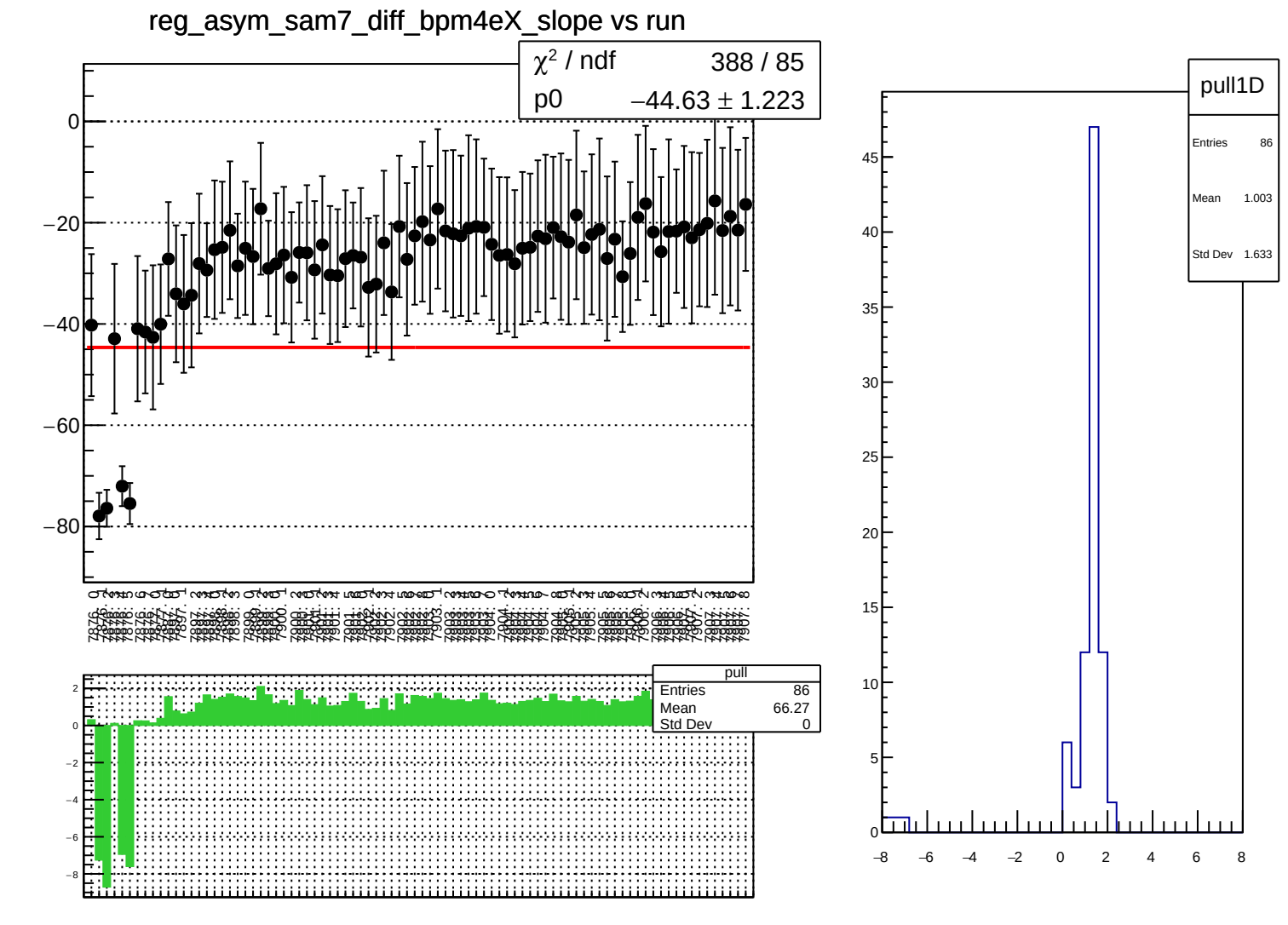

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 130.5 / 85
p0 5.623 ± 3.521
pull
Entries 86
Mean 76.92
Std Dev 0
pull1D
Entries 86
Mean −0.3318
Std Dev 1.186

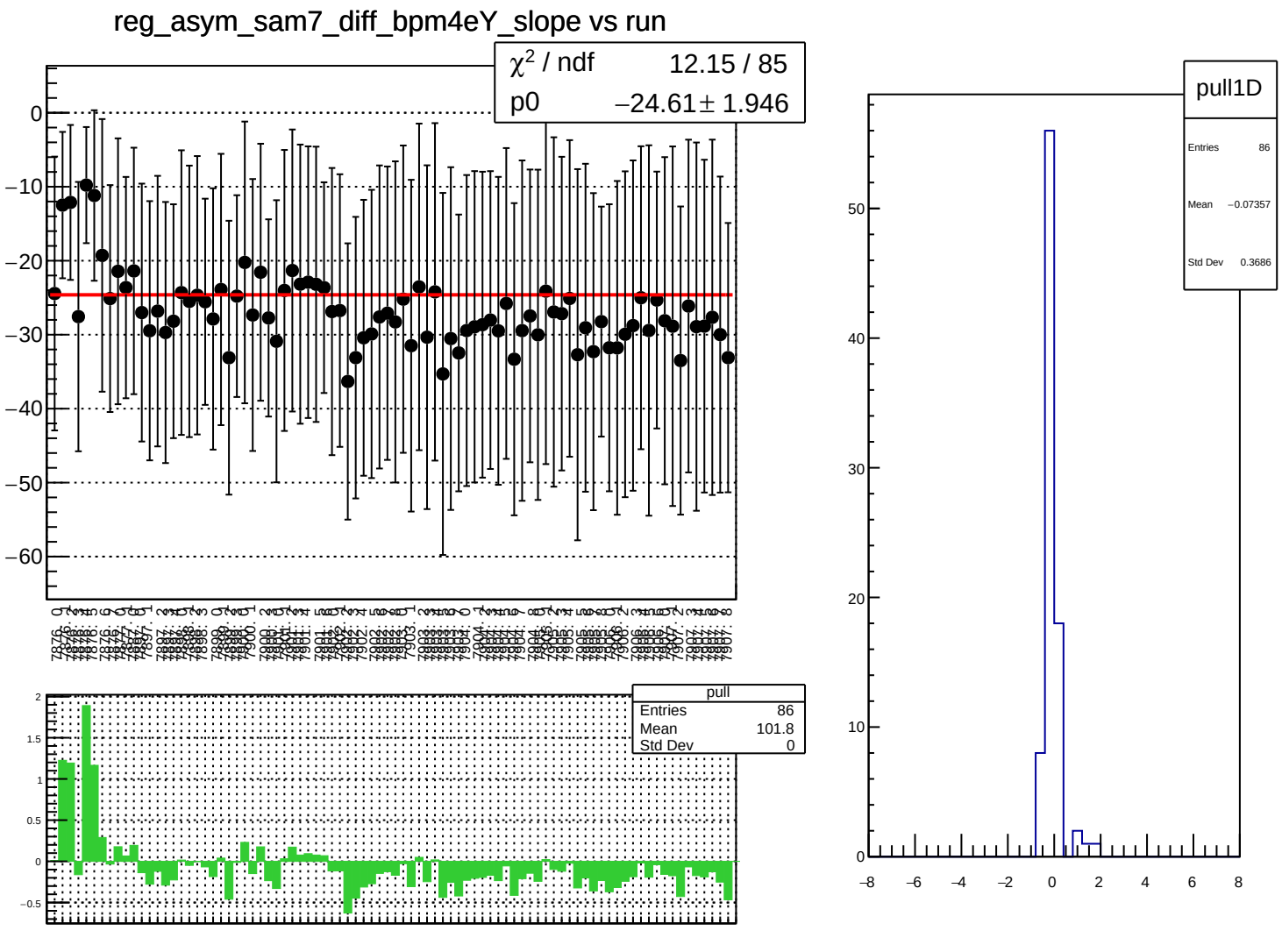

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 26.93 / 85
p0 −1.421 ± 0.1185
pull
Entries 86
Mean 187.1
Std Dev 0
pull1D
Entries 86
Mean −0.07807
Std Dev 0.5541

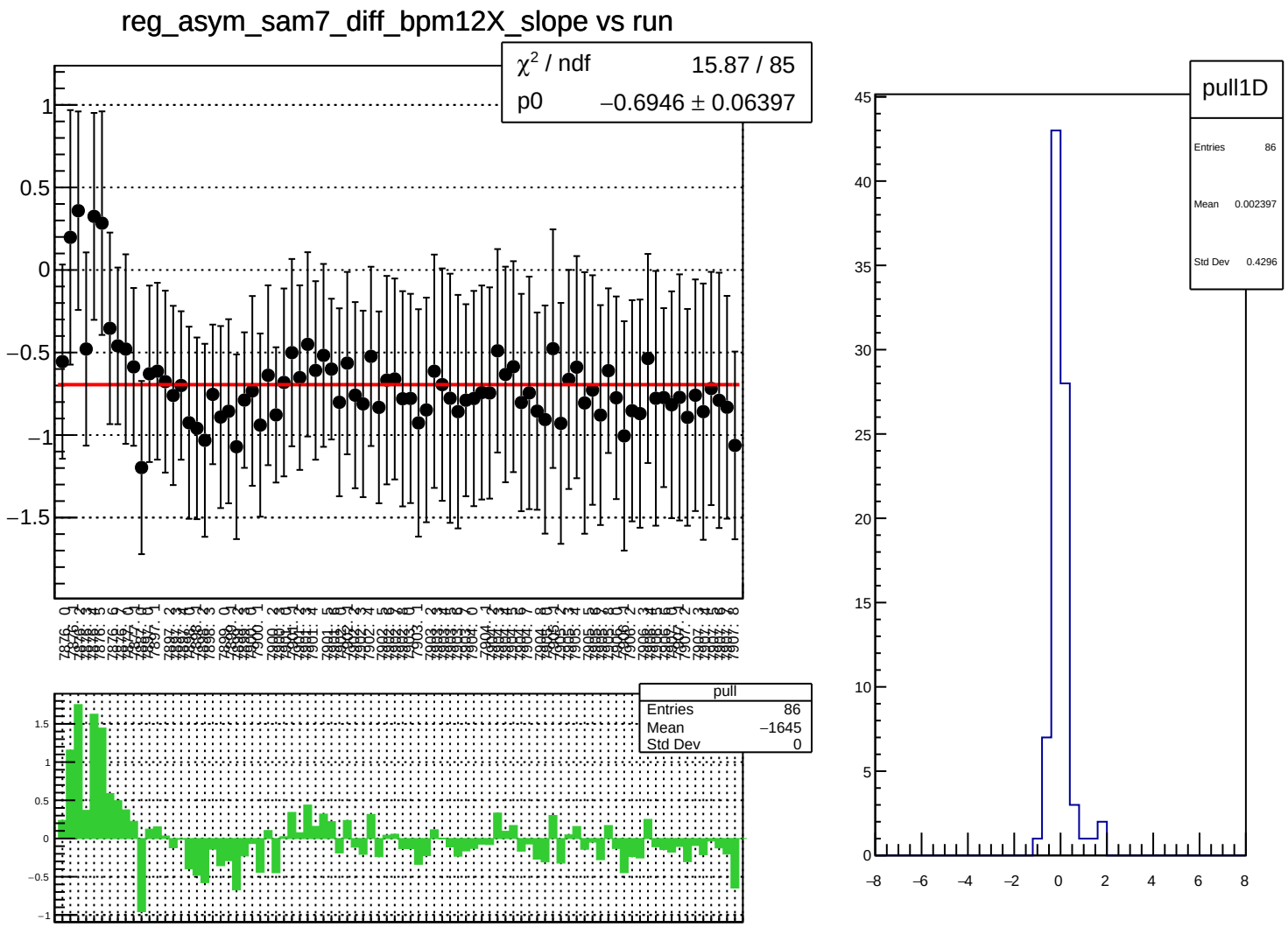

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 282.7 / 85
p0 0.8866 ± 1.508
pull
Entries 86
Mean 68.61
Std Dev 0
pull1D
Entries 86
Mean −0.6867
Std Dev 1.678

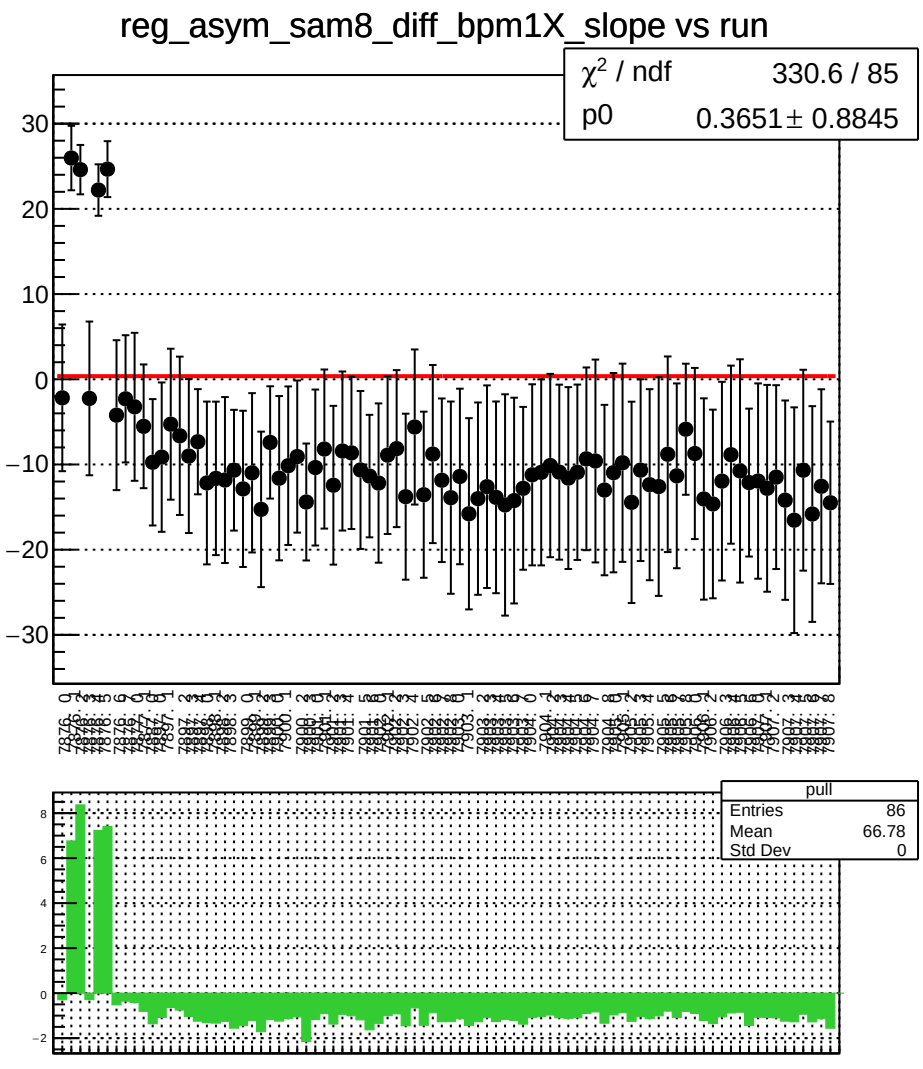

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 18.57 / 85
p0 18.57 ± 1.592
pull
Entries 86
Mean 82.32
Std Dev 0

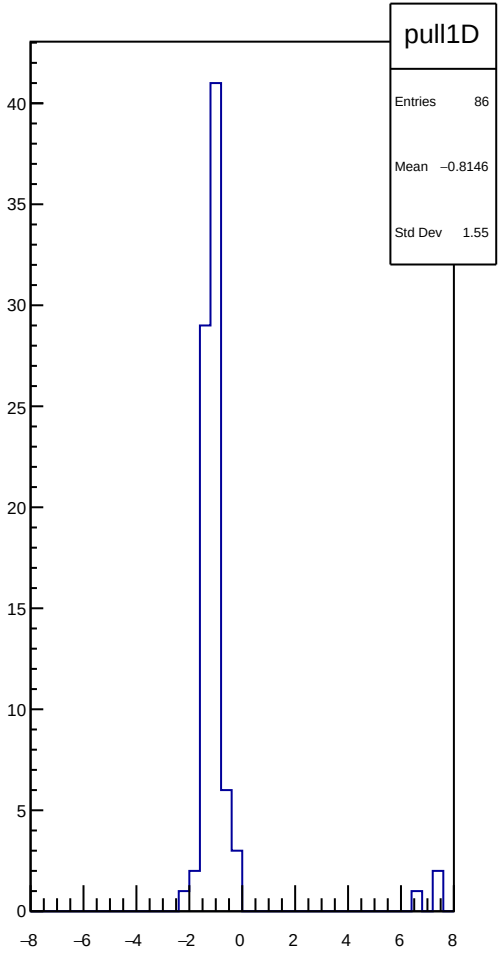

pull1D
Entries 86
Mean 0.1365
Std Dev 0.4441

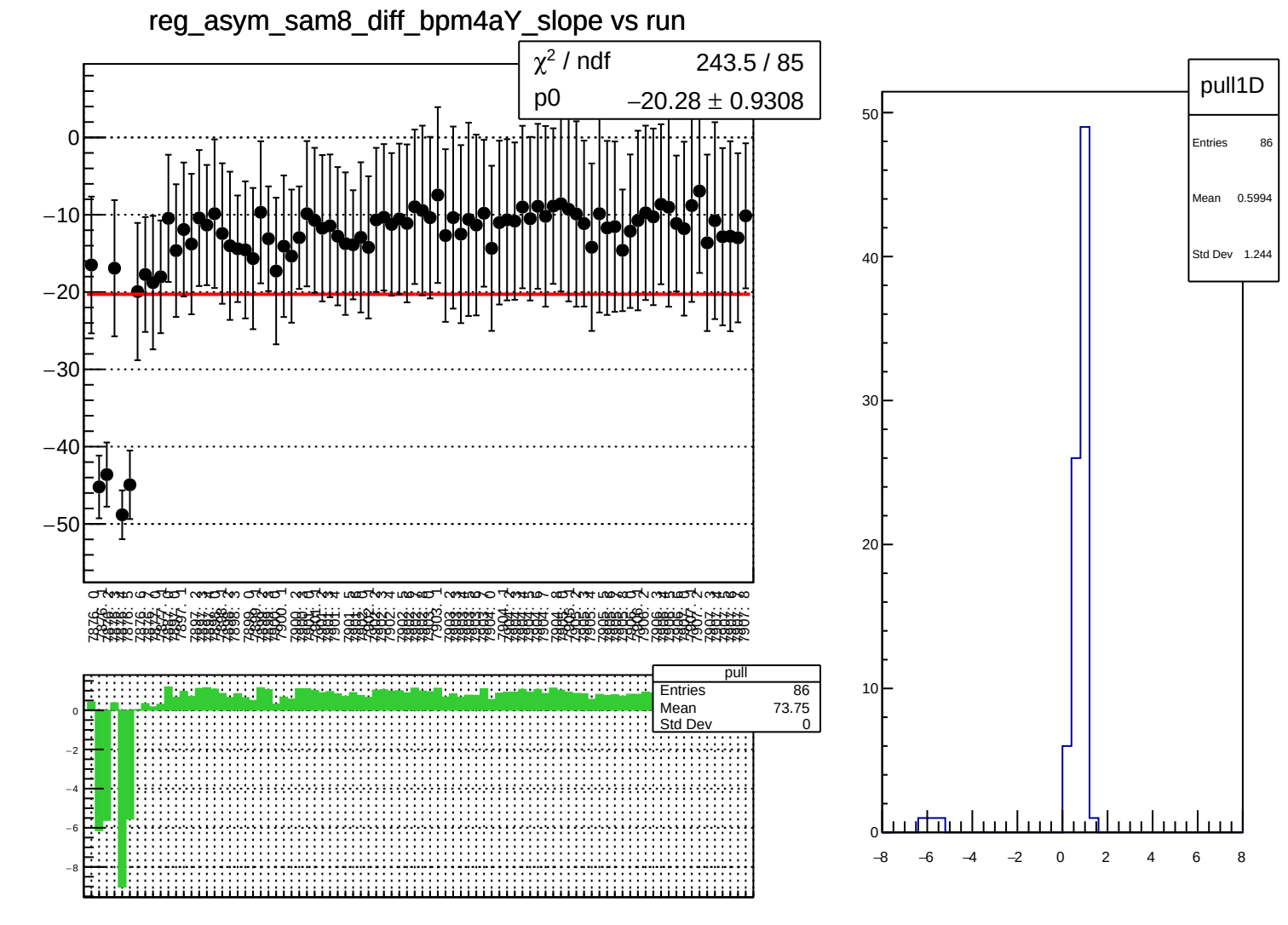

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 388 / 85
p0 −44.63 ± 1.223
pull
Entries 86
Mean 66.27
Std Dev 0
pull1D
Entries 86
Mean 1.003
Std Dev 1.633

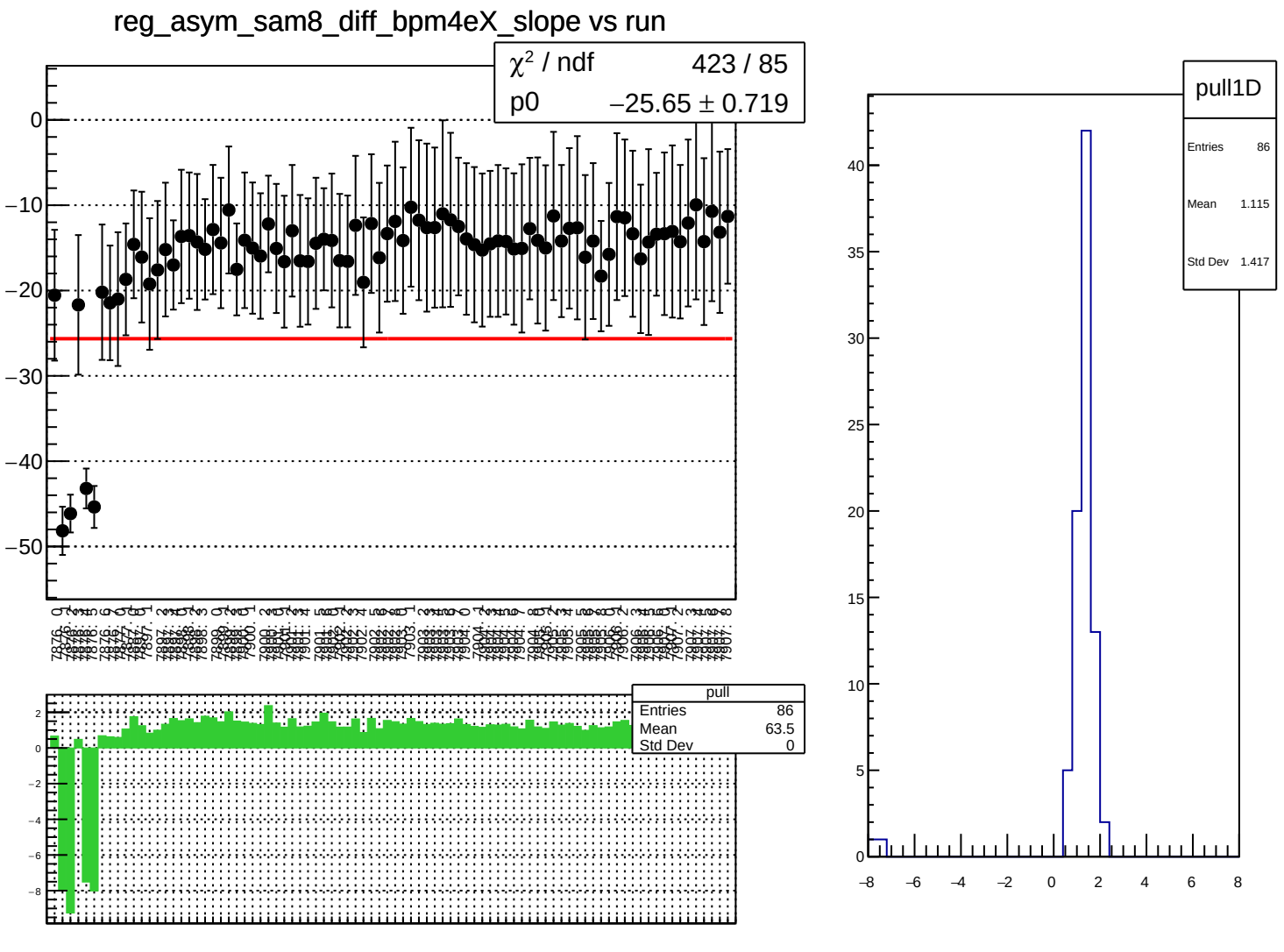

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 12.15 / 85
p0 −24.61 ± 1.946
pull
Entries 86
Mean 101.8
Std Dev 0
pull1D
Entries 86
Mean −0.07357
Std Dev 0.3686

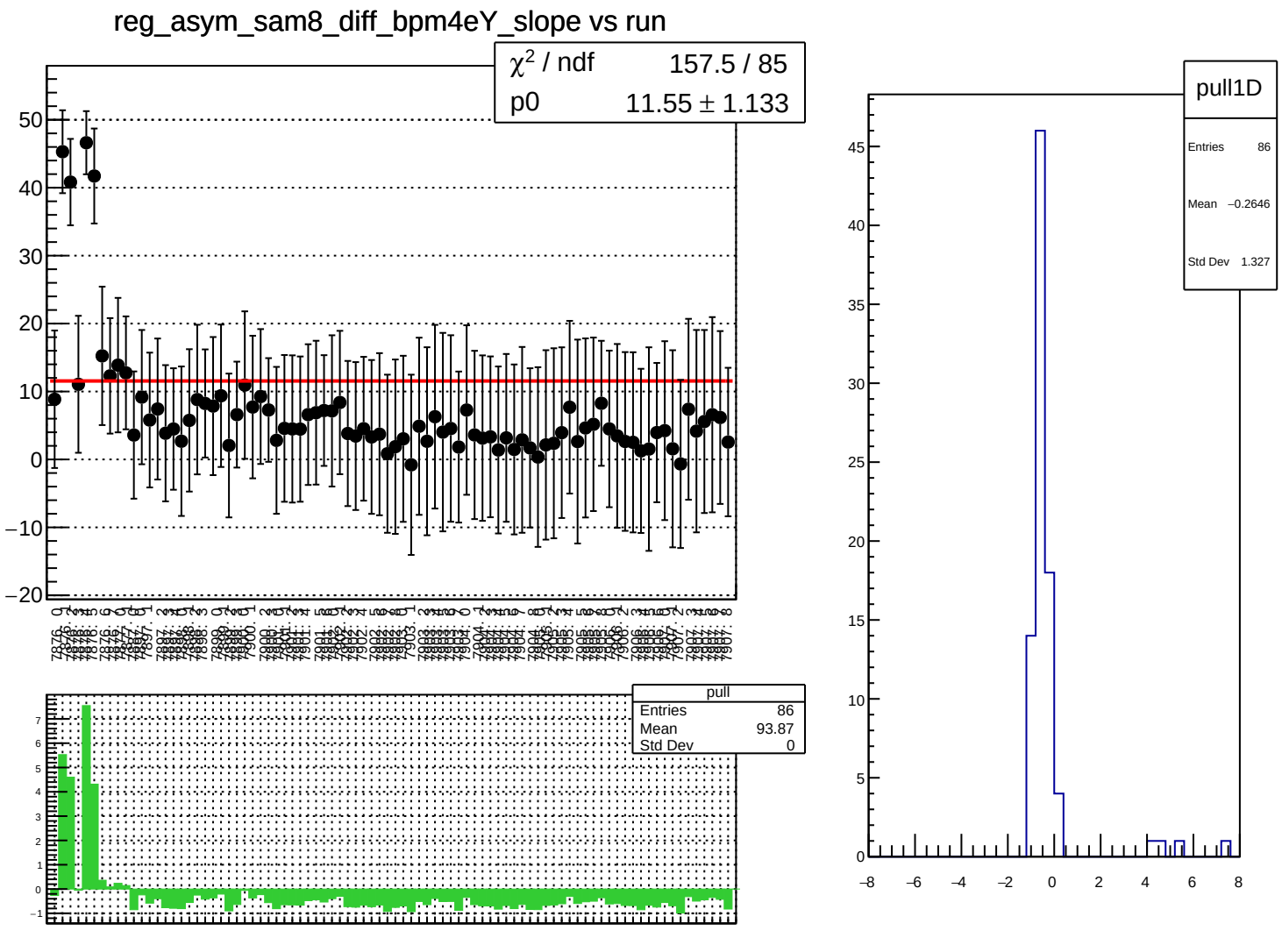

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 15.87 / 85
p0 −0.6946 ± 0.06397
pull
Entries 86
Mean −1645
Std Dev 0
pull1D
Entries 86
Mean 0.002397
Std Dev 0.4296

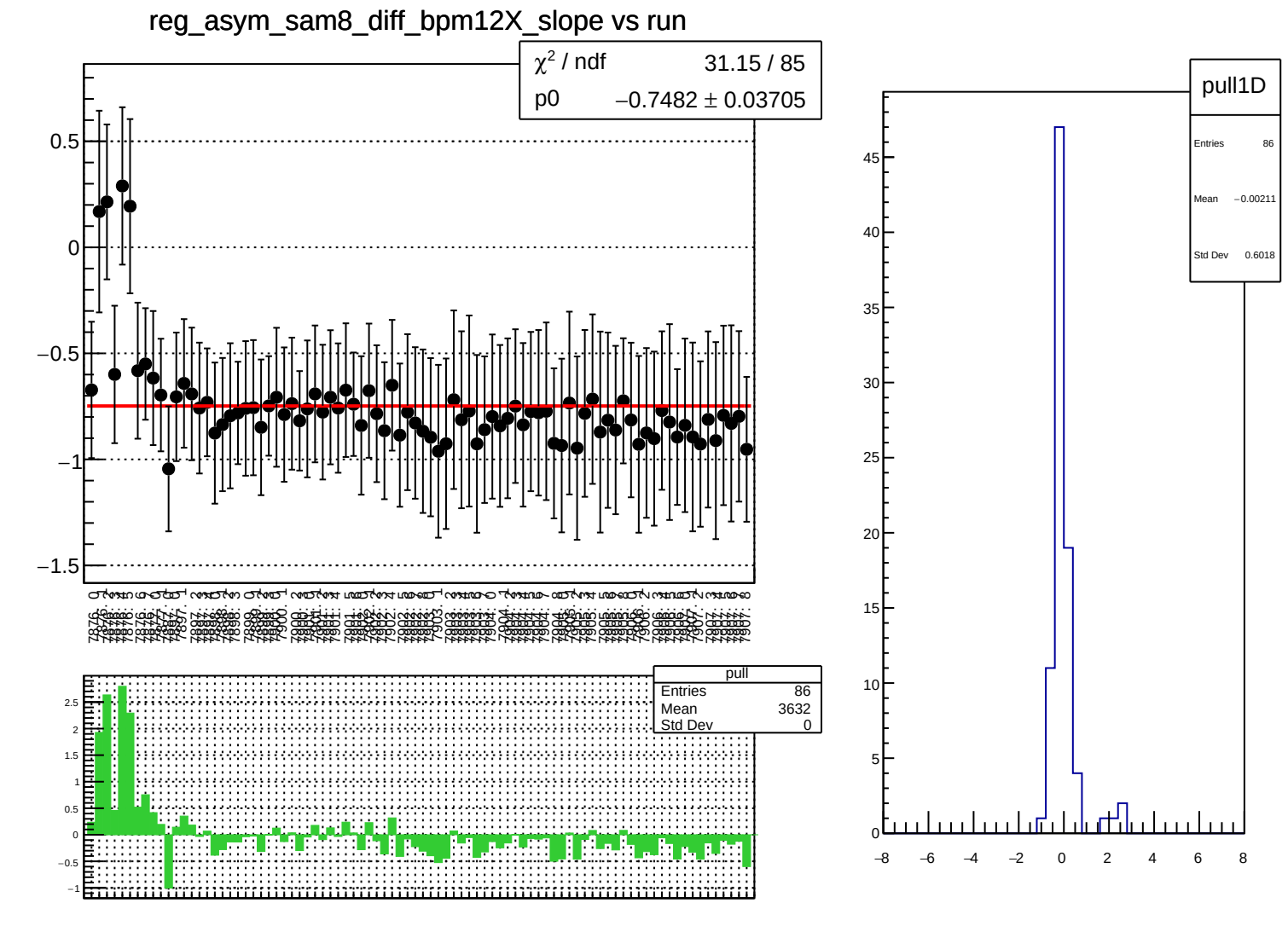

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 330.6 / 85
p0 0.3651 ± 0.8845
pull
Entries 86
Mean 66.78
Std Dev 0

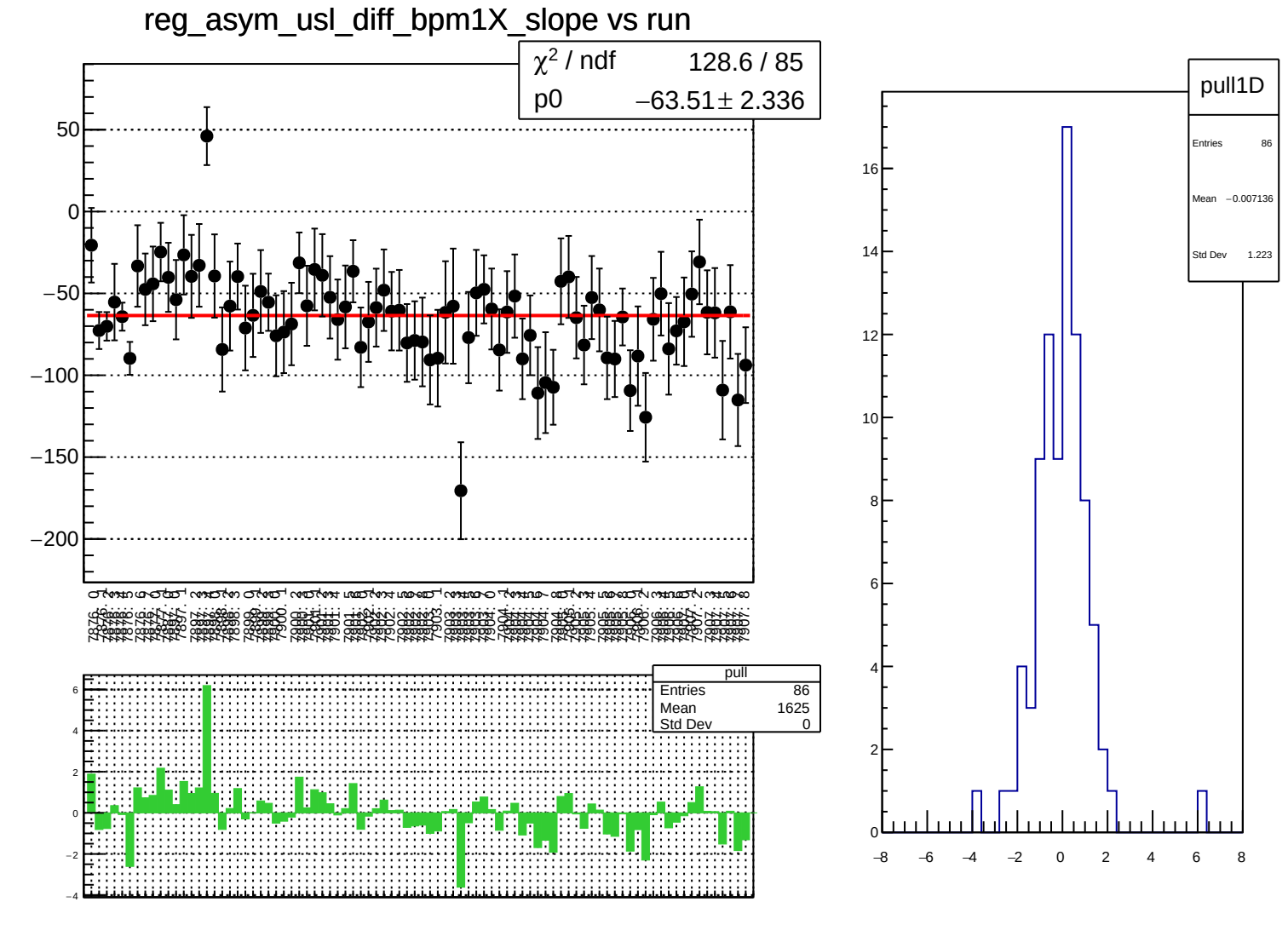

pull1D
Entries 86
Mean −0.8146
Std Dev 1.55

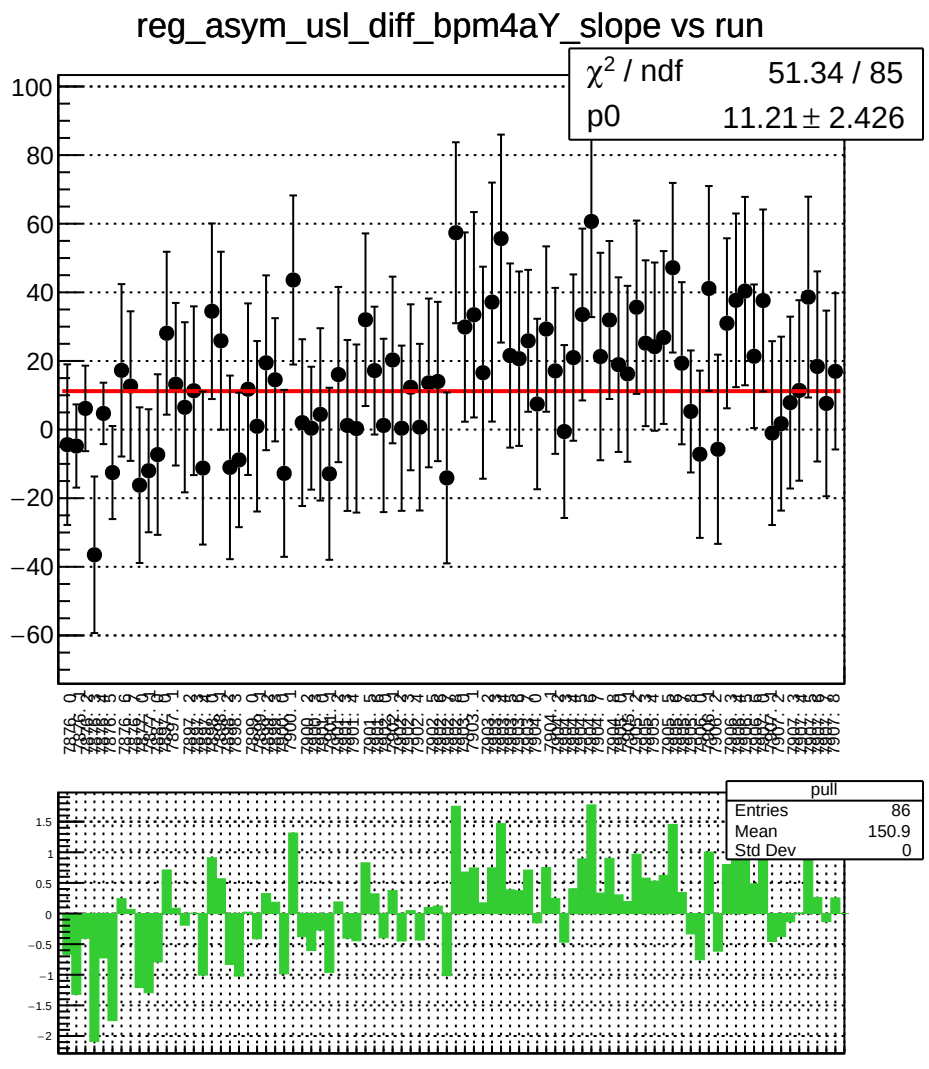

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 243.5 / 85
p0 −20.28 ± 0.9308
pull
Entries 86
Mean 73.75
Std Dev 0
pull1D
Entries 86
Mean 0.5994
Std Dev 1.244

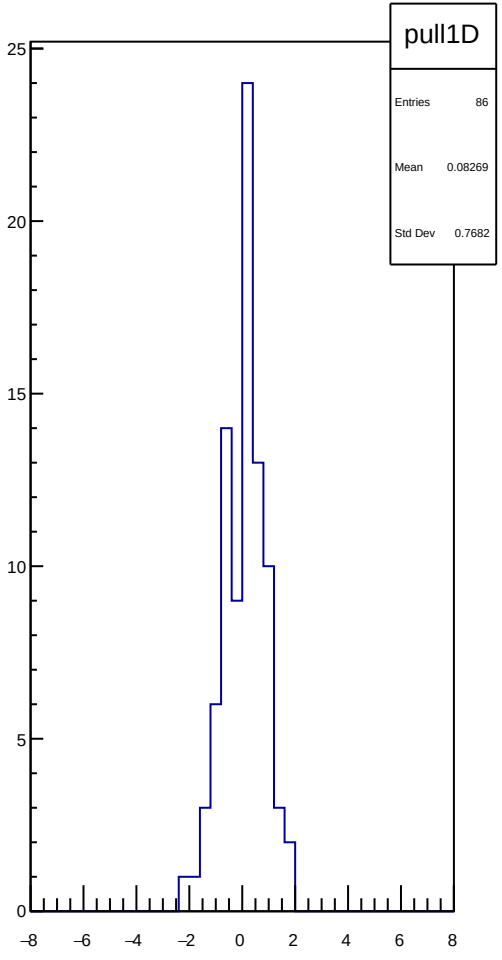

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 423 / 85
p0 −25.65 ± 0.719
pull
Entries 86
Mean 63.5
Std Dev 0
pull1D
Entries 86
Mean 1.115
Std Dev 1.417

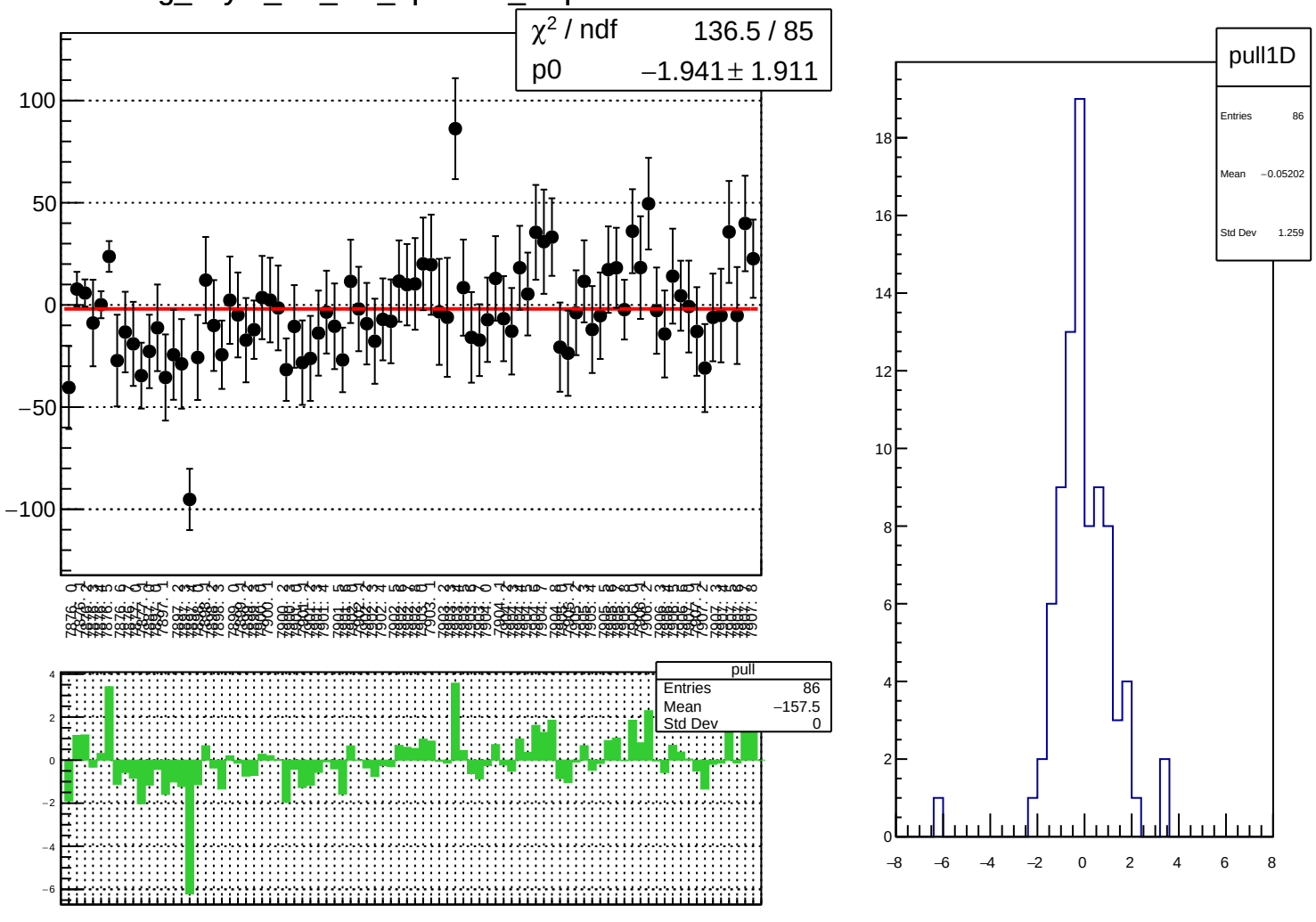

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 157.5 / 85
p0 11.55 ± 1.133
pull
Entries 86
Mean 93.87
Std Dev 0
pull1D
Entries 86
Mean −0.2646
Std Dev 1.327

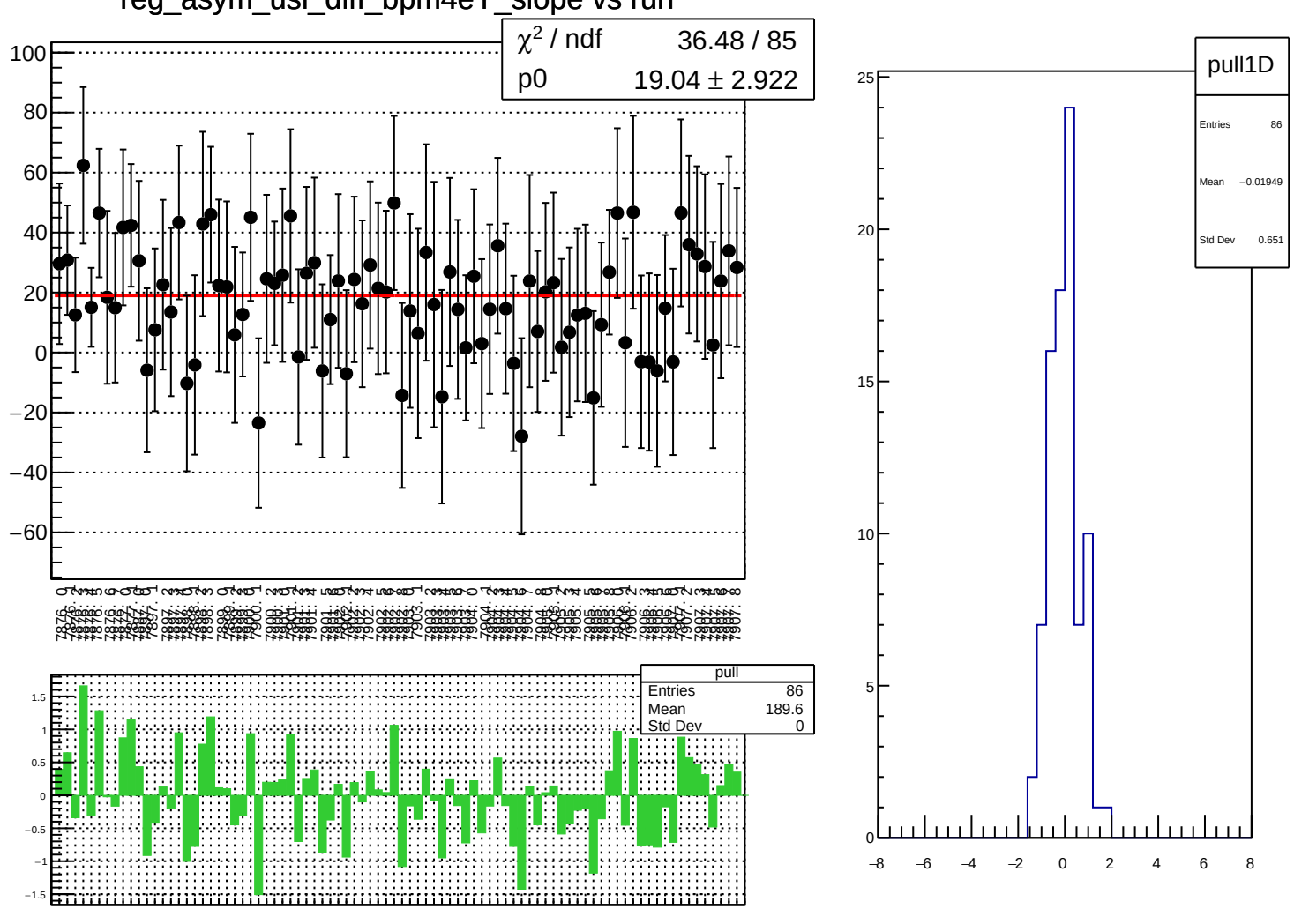

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 31.15 / 85
p0 −0.7482 ± 0.03705
pull
Entries 86
Mean 3632
Std Dev 0
pull1D
Entries 86
Mean −0.00211
Std Dev 0.6018

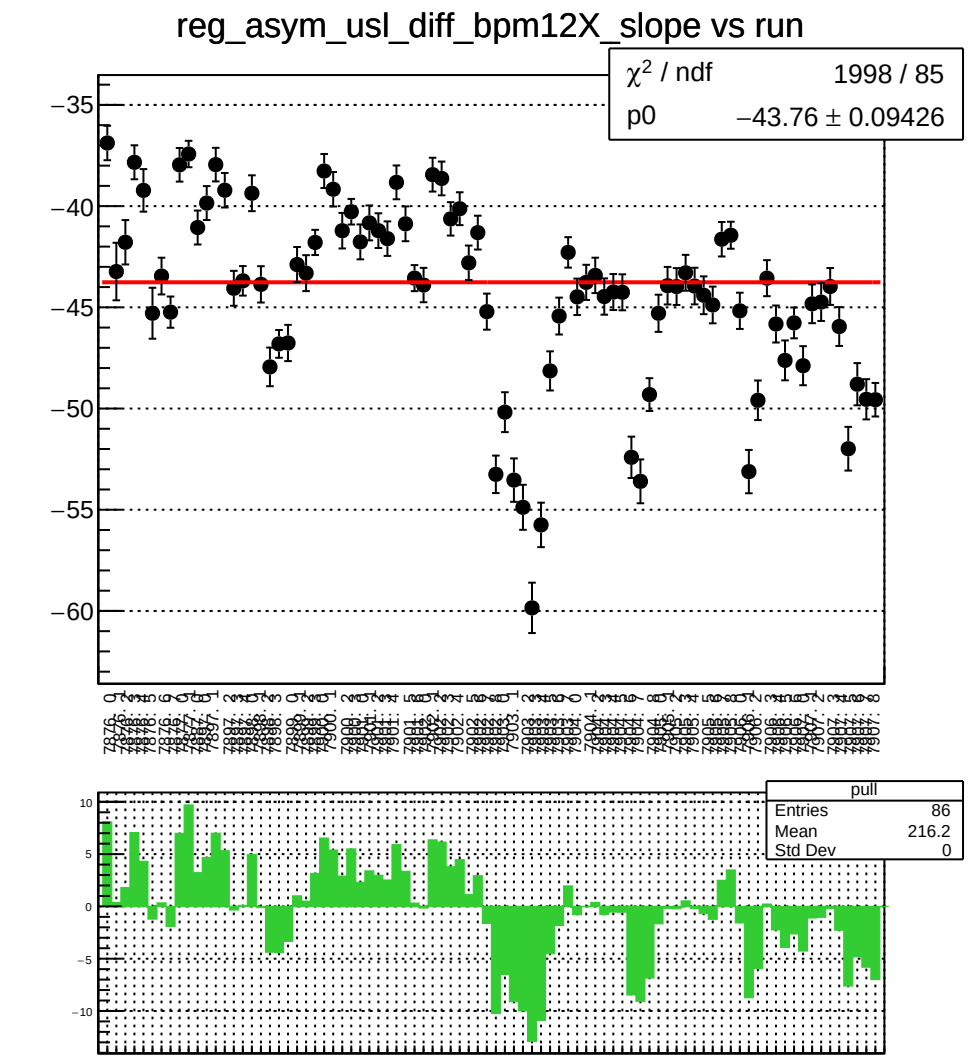

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 128.6 / 85
p0 −63.51 ± 2.336
pull
Entries 86
Mean 1625
Std Dev 0
pull1D
Entries 86
Mean −0.007136
Std Dev 1.223

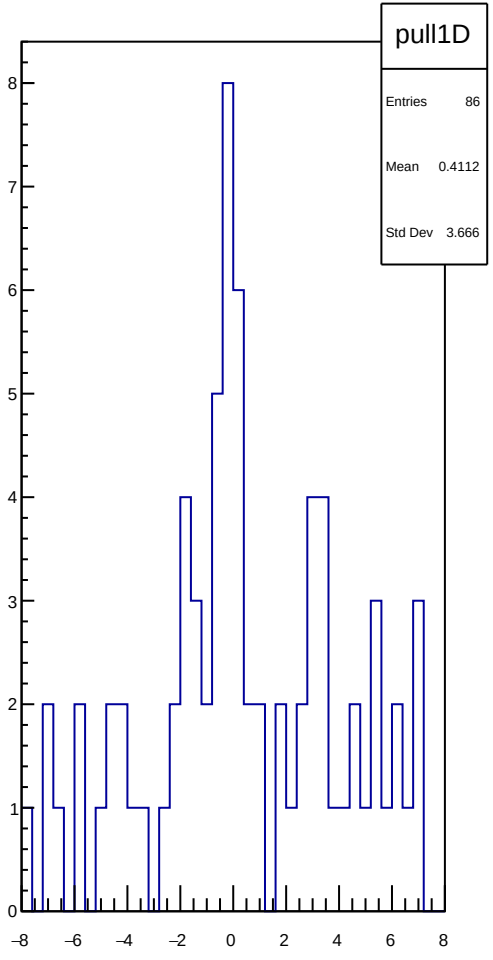

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 51.34 / 85
p0 11.21 ± 2.426
pull
Entries 86
Mean 150.9
Std Dev 0

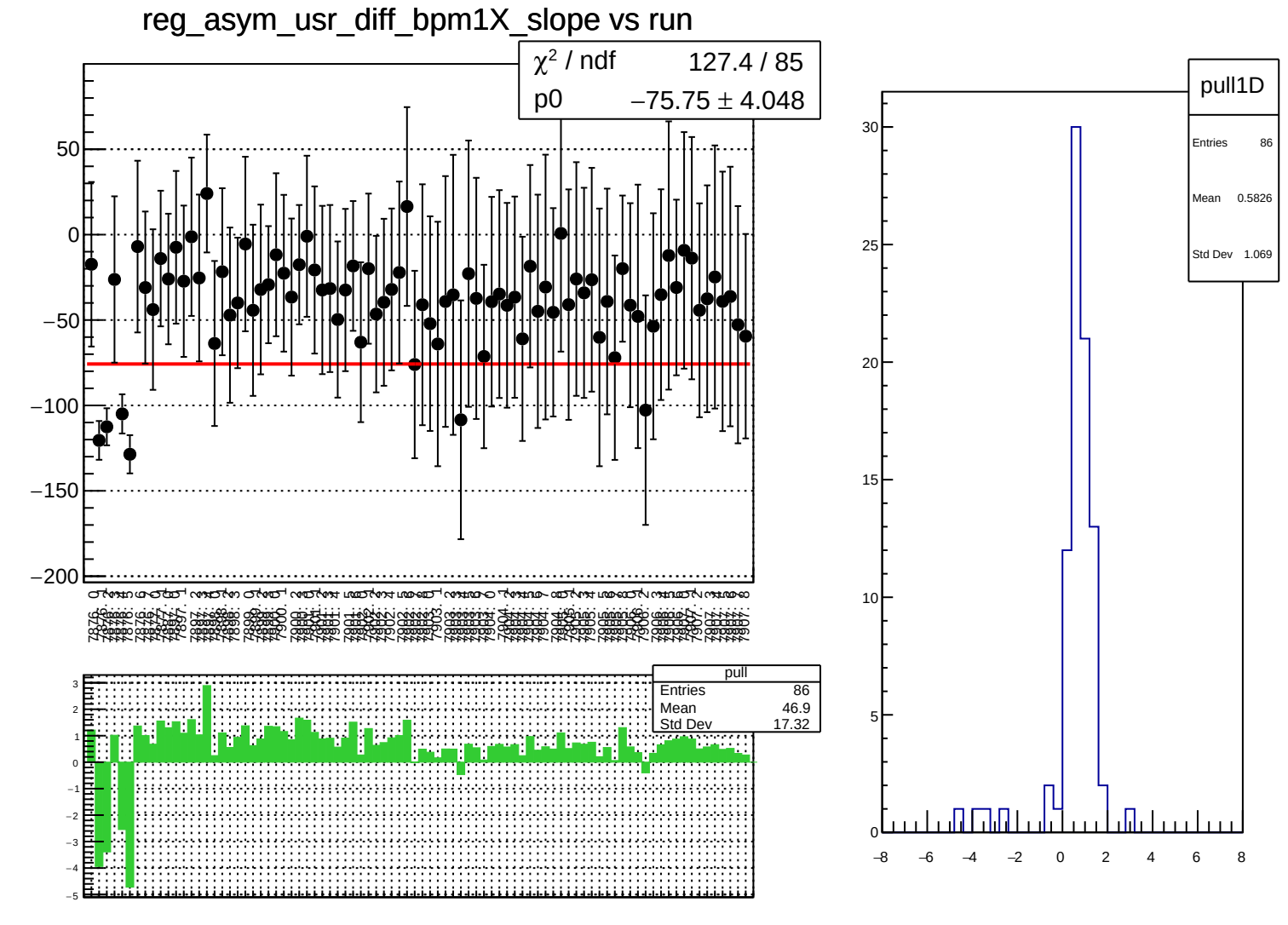

pull1D
Entries 86
Mean 0.08269
Std Dev 0.7682

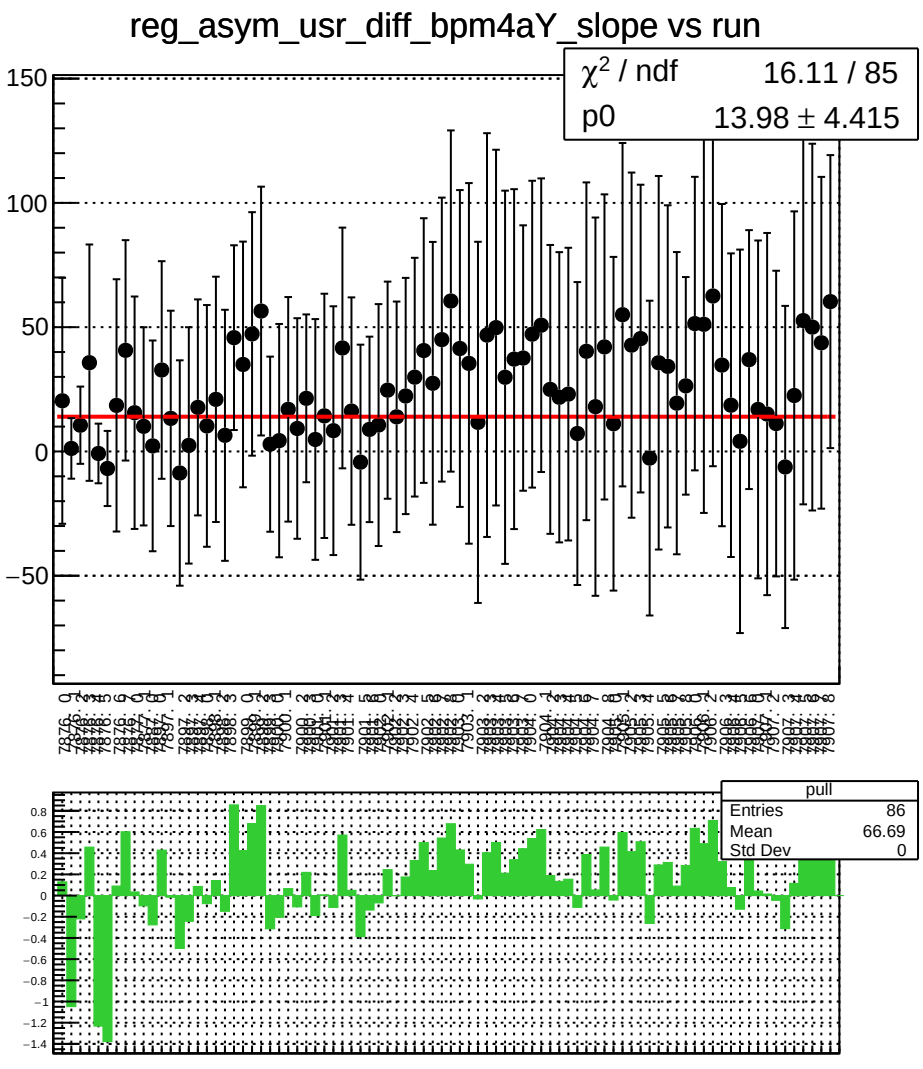

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 136.5 / 85
p0 −1.941 ± 1.911
pull
Entries 86
Mean −157.5
Std Dev 0
pull1D
Entries 86
Mean −0.05202
Std Dev 1.259

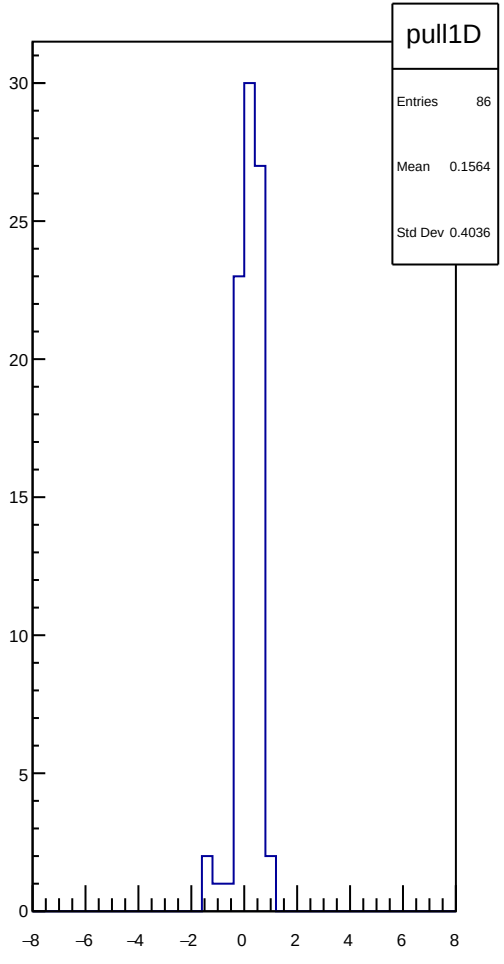

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 36.48 / 85
p0 19.04 ± 2.922
pull
Entries 86
Mean 189.6
Std Dev 0
pull1D
Entries 86
Mean −0.01949
Std Dev 0.651

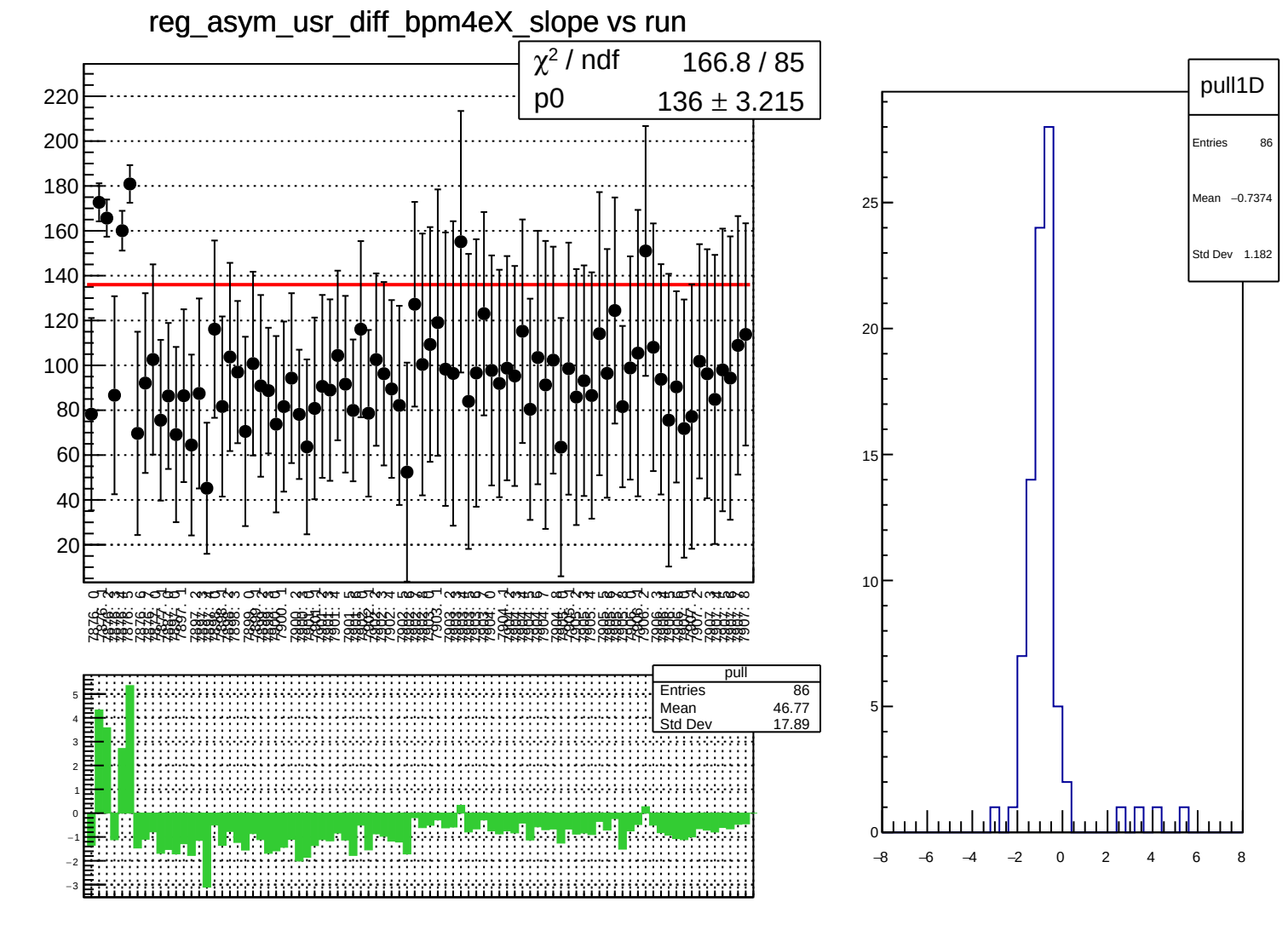

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 1998 / 85
p0 −43.76 ± 0.09426
pull
Entries 86
Mean 216.2
Std Dev 0

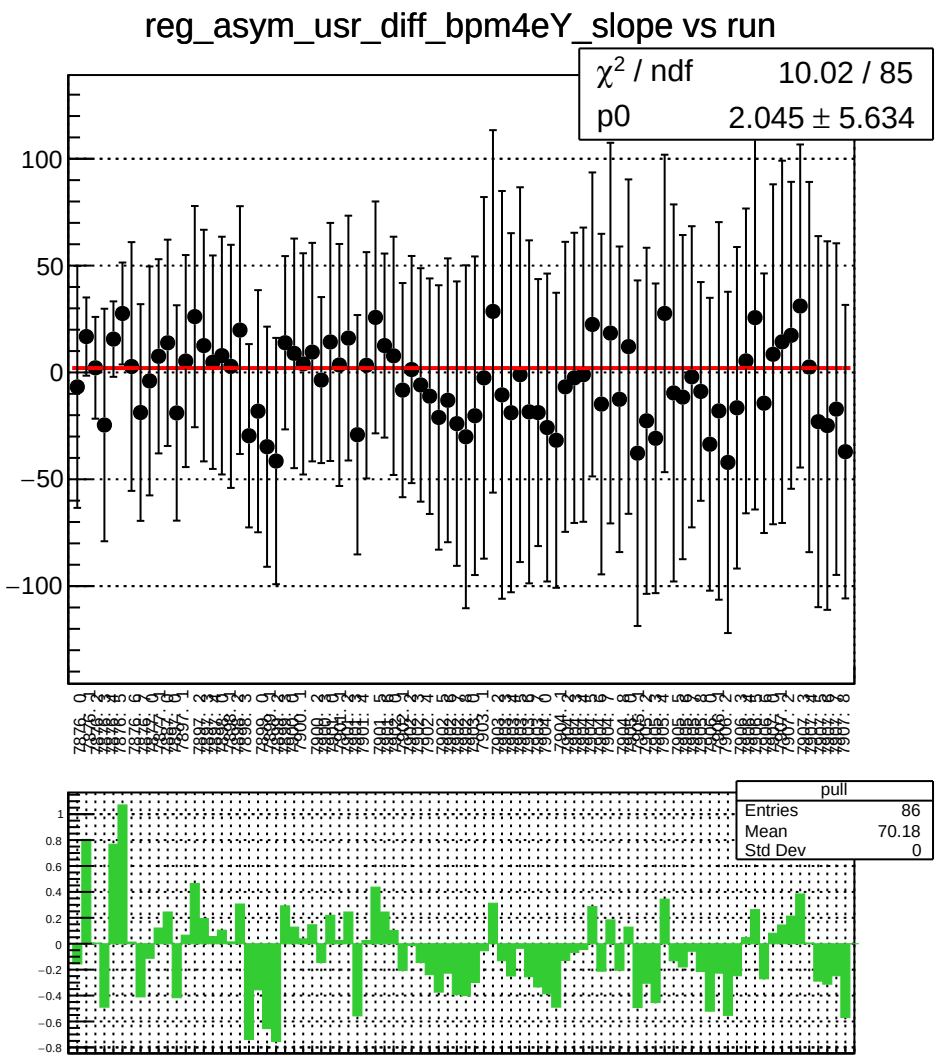

pull1D
Entries 86
Mean 0.4112
Std Dev 3.666

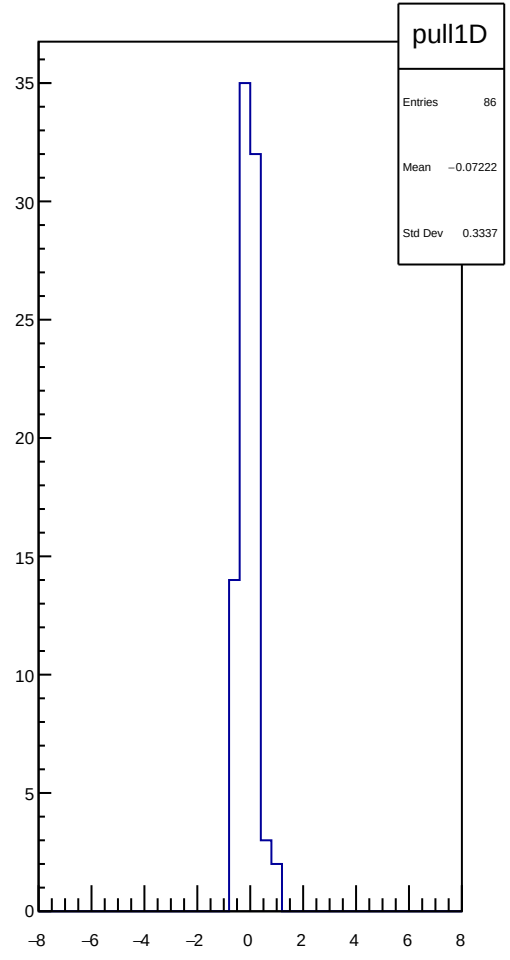

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 127.4 / 85
p0 −75.75 ± 4.048
pull
Entries 86
Mean 46.9
Std Dev 17.32
pull1D
Entries 86
Mean 0.5826
Std Dev 1.069

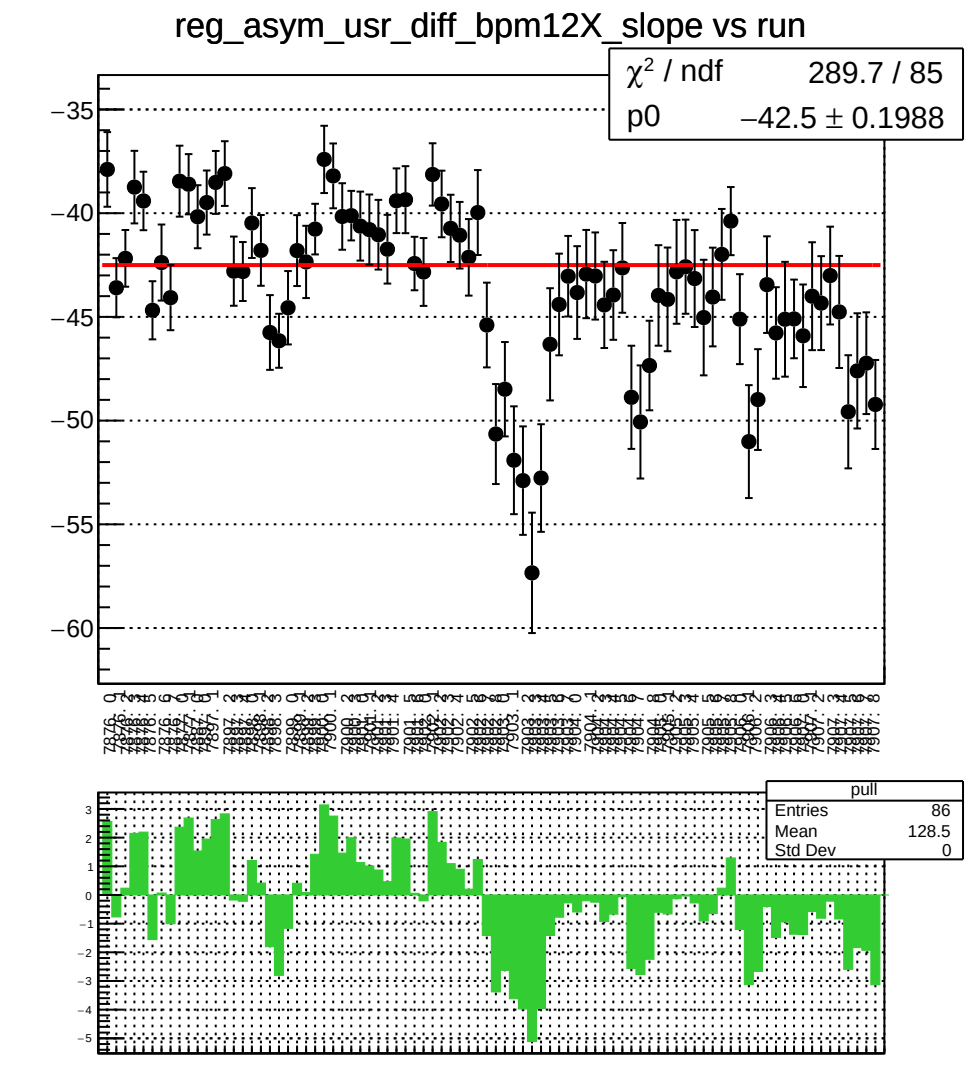

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 16.11 / 85
p0 13.98 ± 4.415
150
100
50
0
−50
pull
Entries 86
Mean 66.69
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

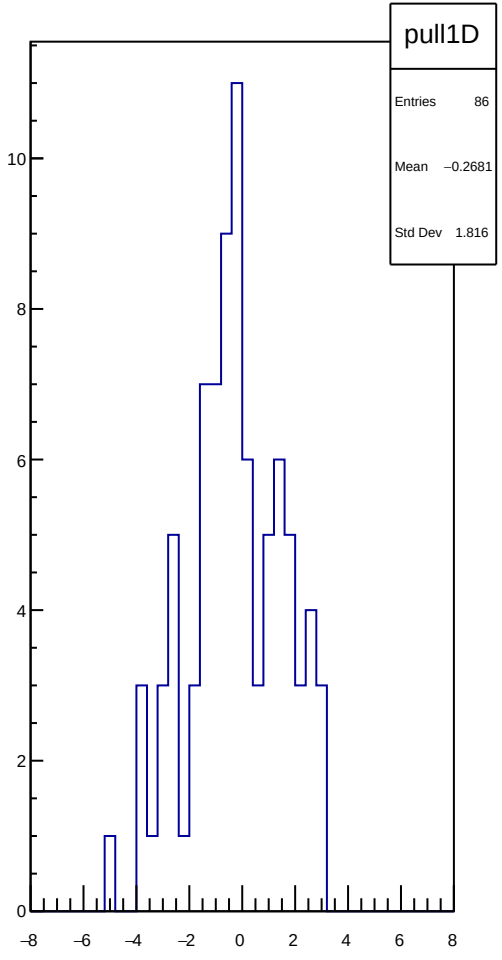

pull1D
Entries 86
Mean 0.1564
Std Dev 0.4036
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

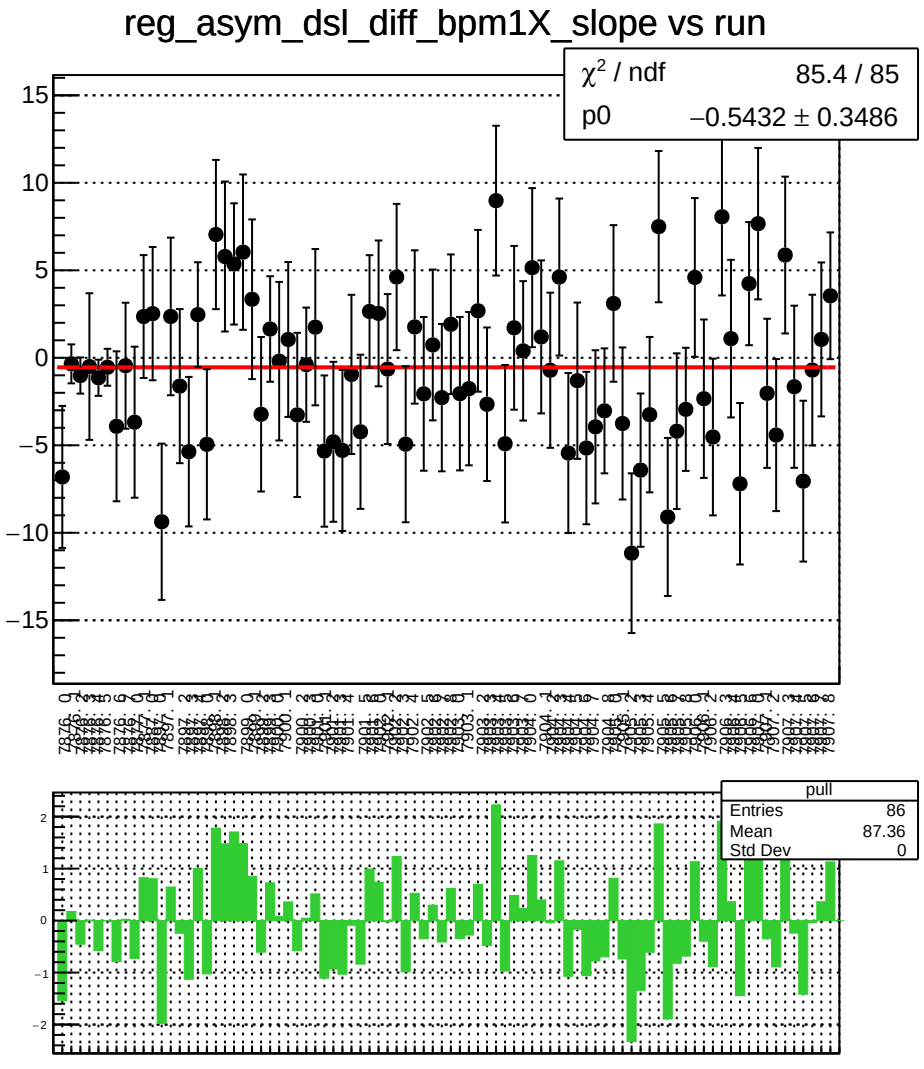

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 166.8 / 85
p0 136 ± 3.215
pull
Entries 86
Mean 46.77
Std Dev 17.89
pull1D
Entries 86
Mean −0.7374
Std Dev 1.182

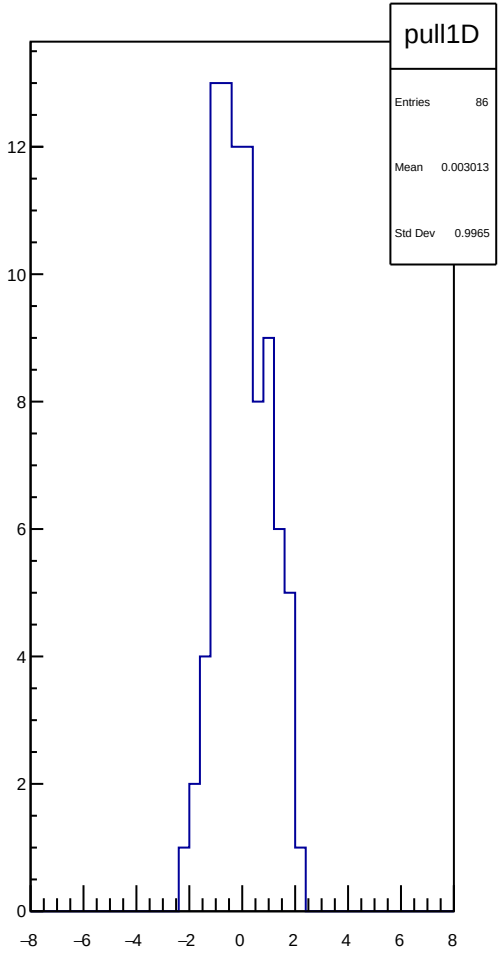

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 10.02 / 85
p0 2.045 ± 5.634
100
50
0
−50
−100
pull
Entries 86
Mean 70.18
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

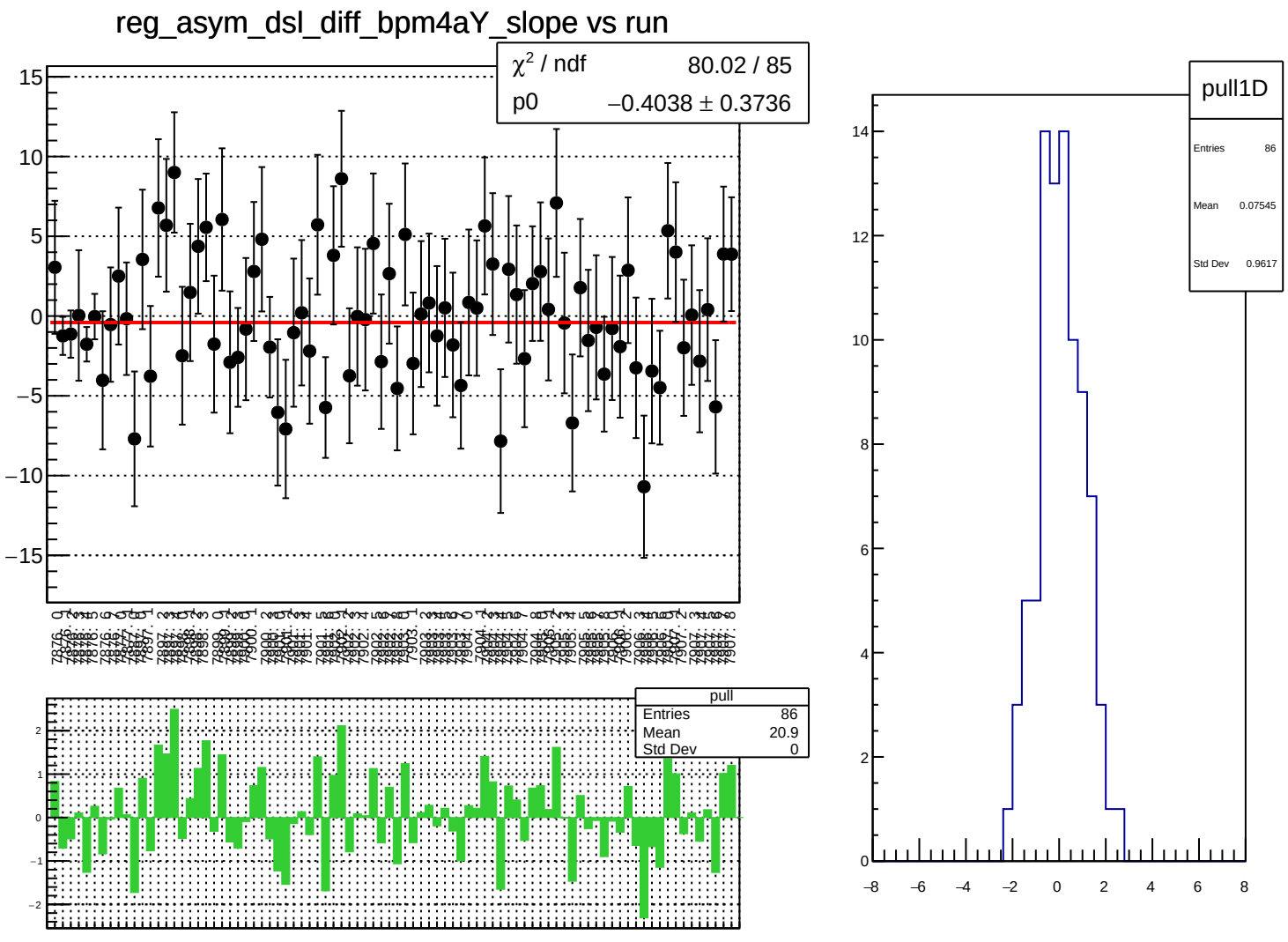

pull1D
Entries 86
Mean −0.07222
Std Dev 0.3337
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

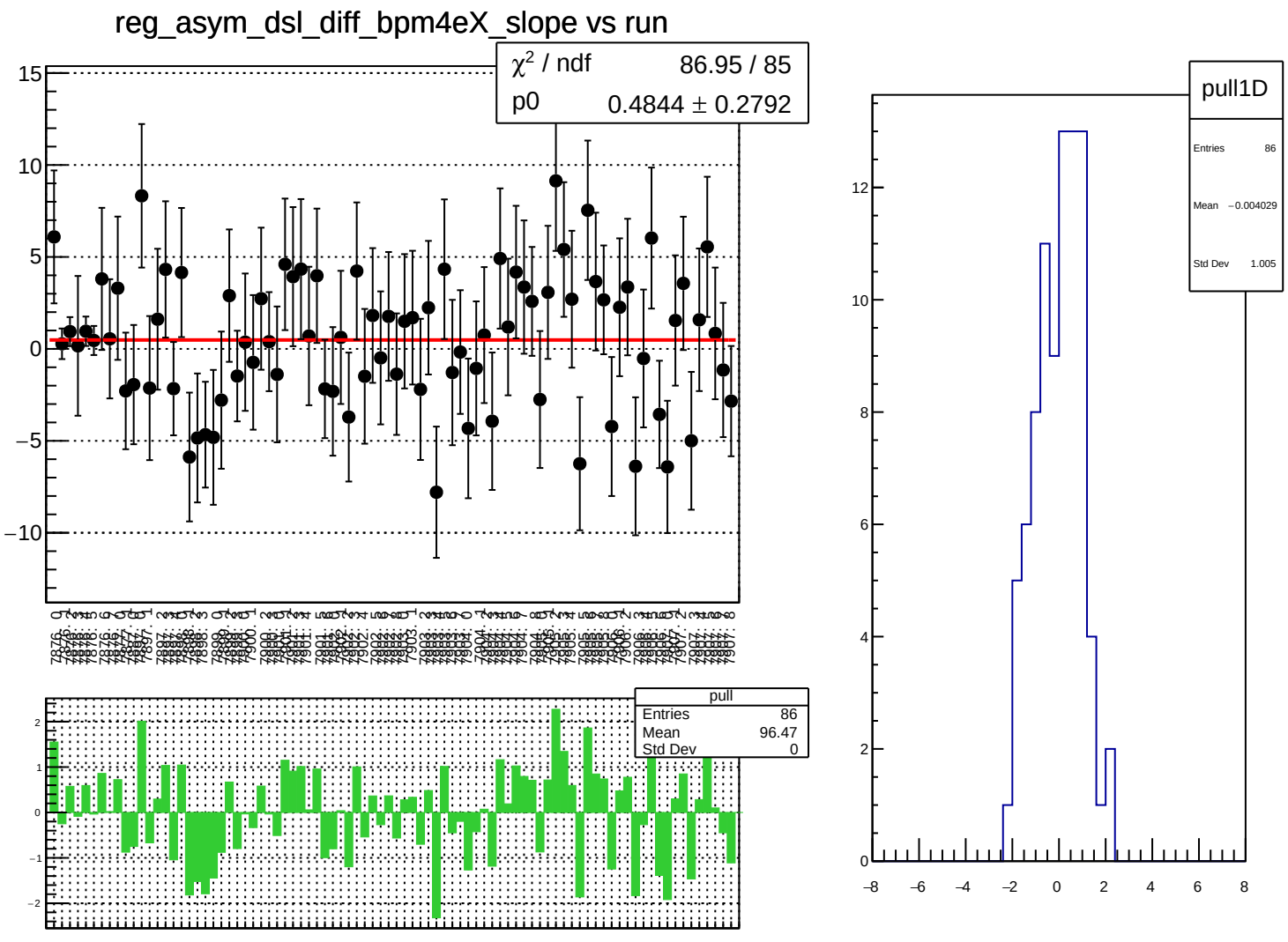

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 289.7 / 85
p0 −42.5 ± 0.1988
pull
Entries 86
Mean 128.5
Std Dev 0

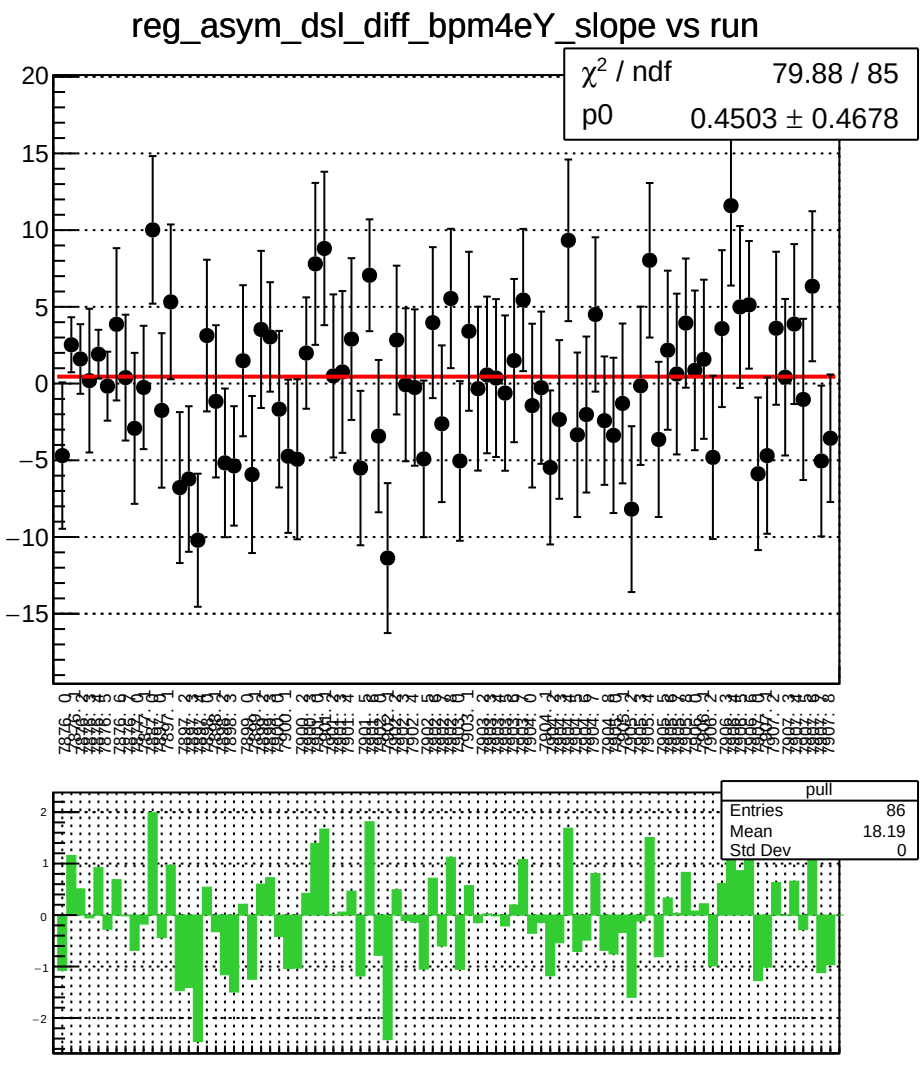

pull1D
Entries 86
Mean −0.2681
Std Dev 1.816

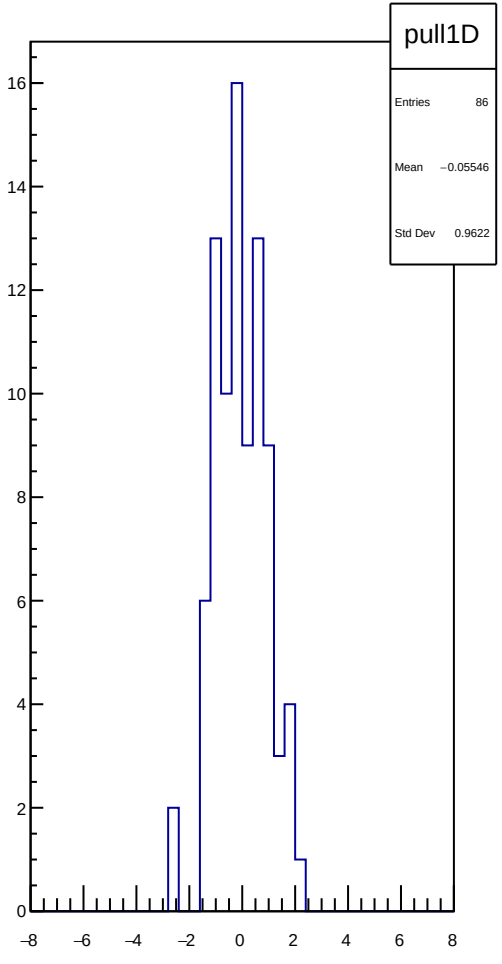

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 85.4 / 85
p0 −0.5432 ± 0.3486
pull
Entries 86
Mean 87.36
Std Dev 0

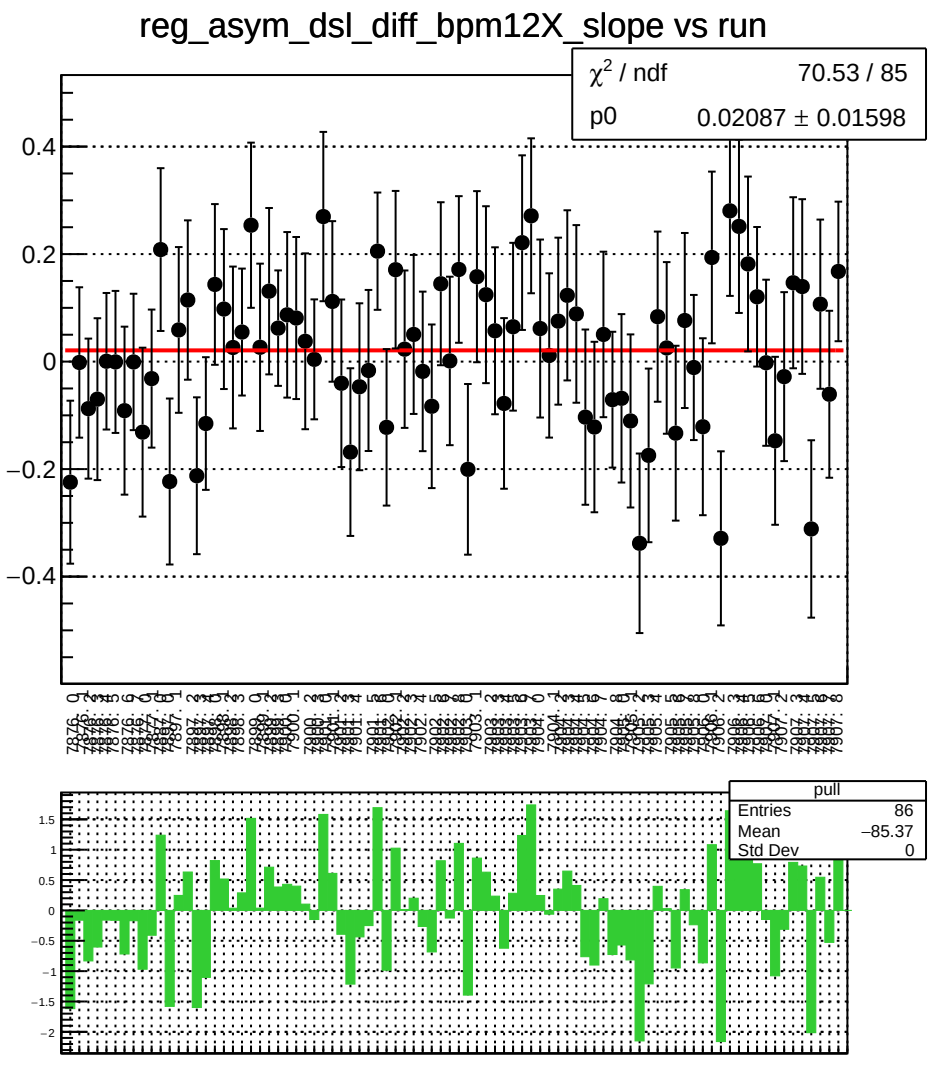

pull1D
Entries 86
Mean 0.003013
Std Dev 0.9965

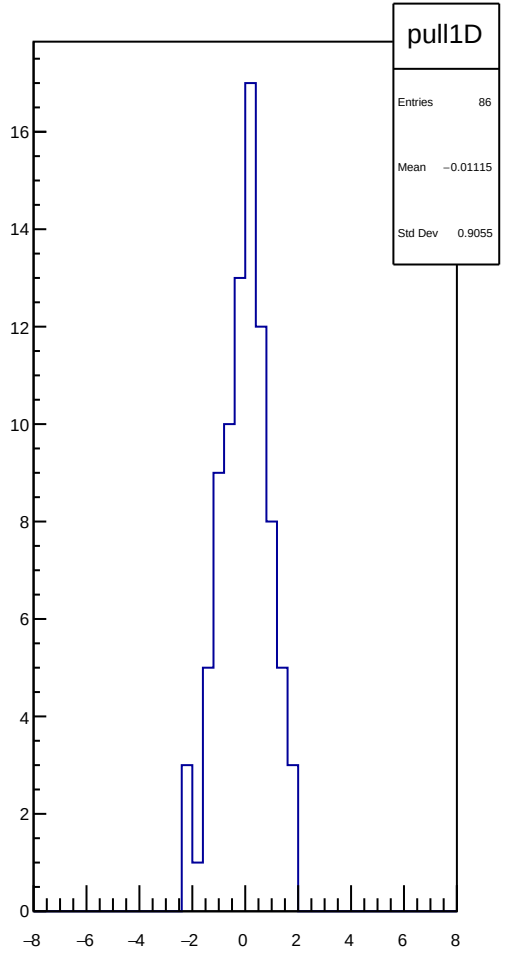

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 80.02 / 85
p0 −0.4038 ± 0.3736
pull
Entries 86
Mean 20.9
Std Dev 0
pull1D
Entries 86
Mean 0.07545
Std Dev 0.9617

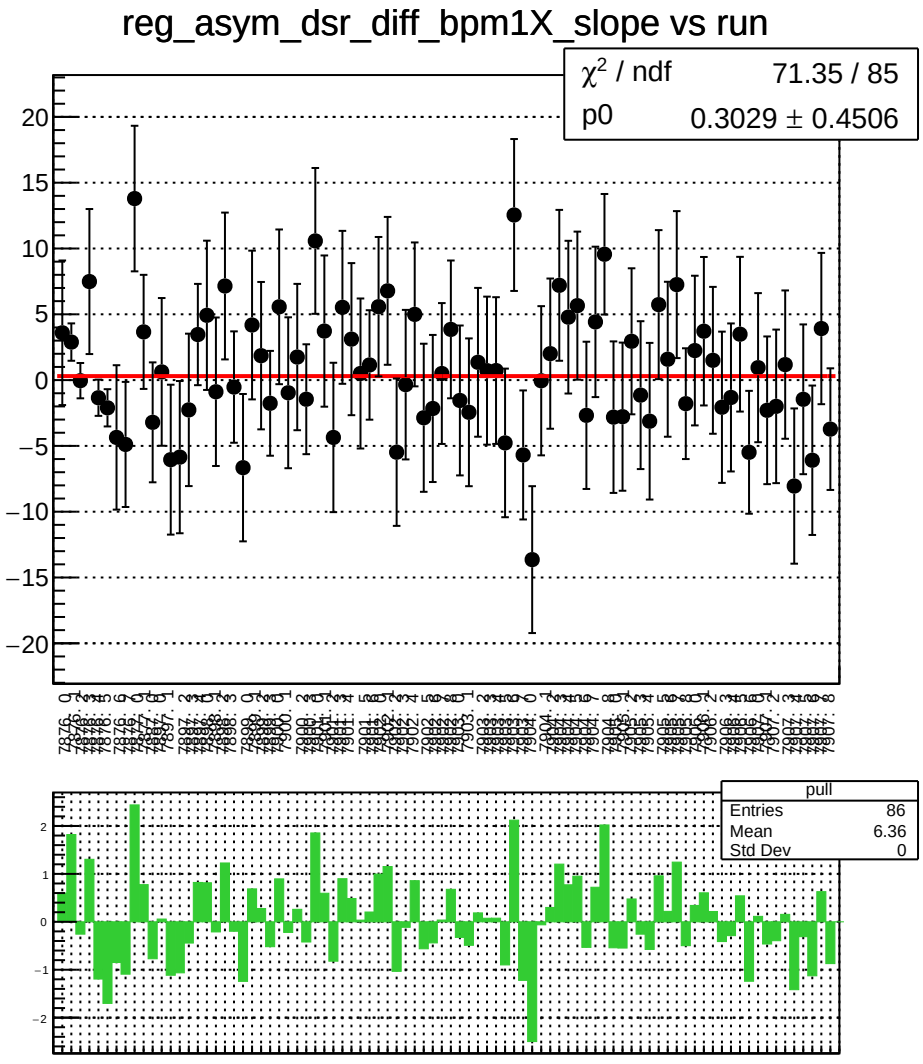

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 86.95 / 85
p0 0.4844 ± 0.2792
pull
Entries 86
Mean 96.47
Std Dev 0
pull1D
Entries 86
Mean −0.004029
Std Dev 1.005

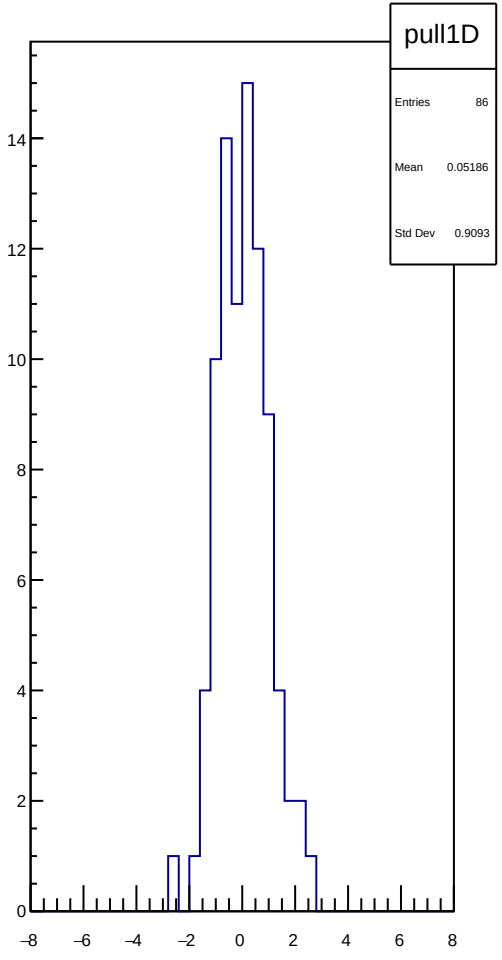

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 79.88 / 85
p0 0.4503 ± 0.4678
pull
Entries 86
Mean 18.19
Std Dev 0

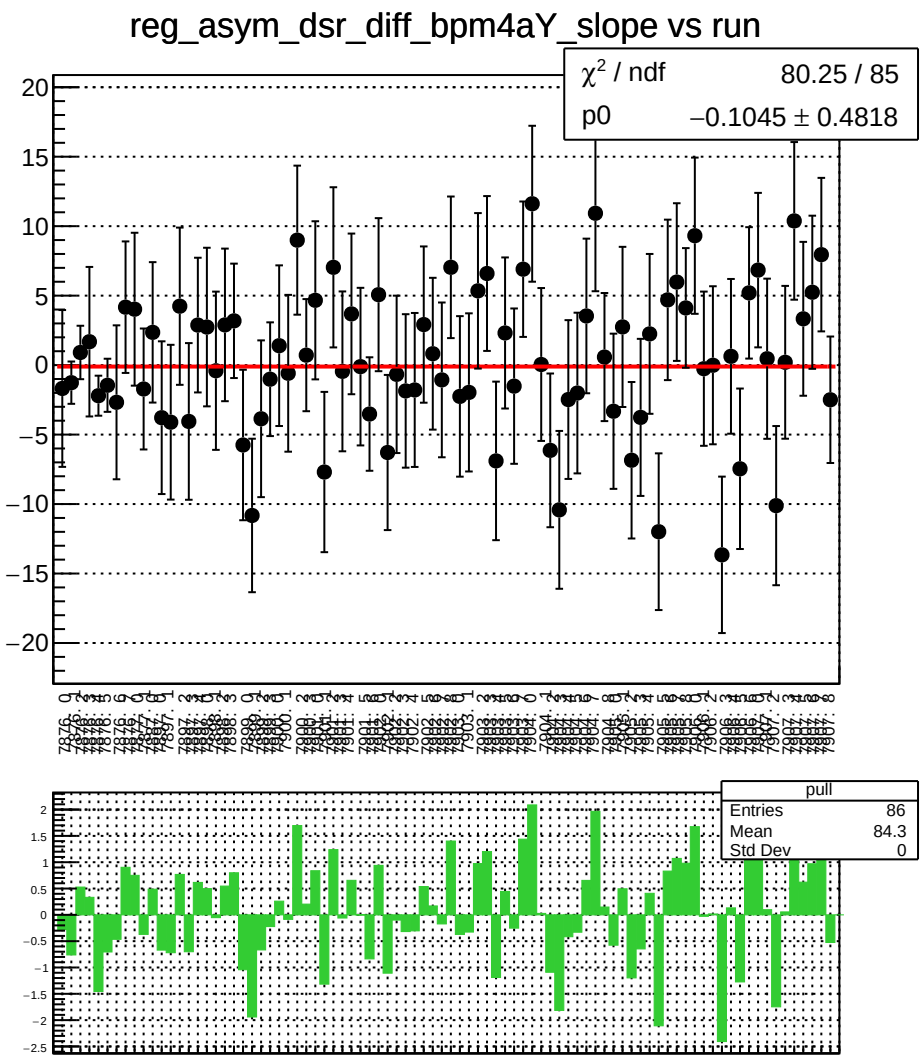

pull1D
Entries 86
Mean −0.05546
Std Dev 0.9622

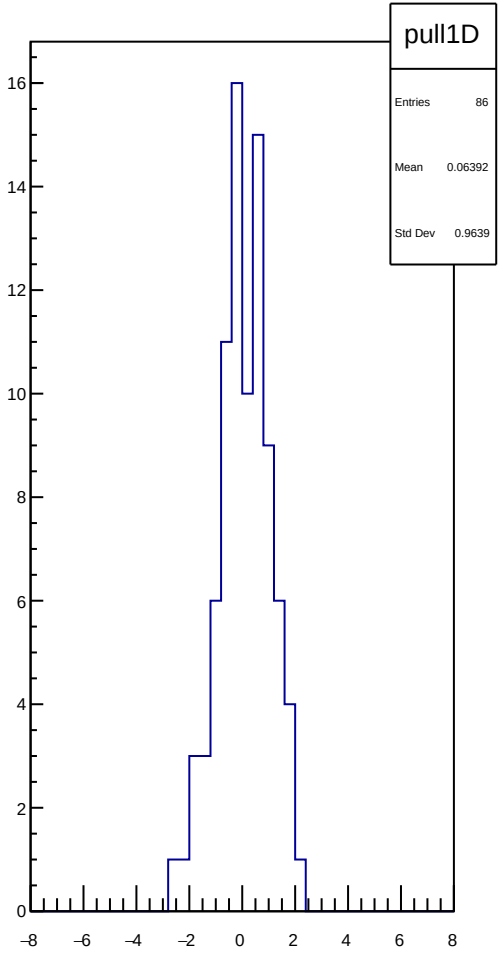

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 70.53 / 85
p0 0.02087 ± 0.01598
0.4
0.2
0
−0.2
−0.4
pull
Entries 86
Mean −85.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

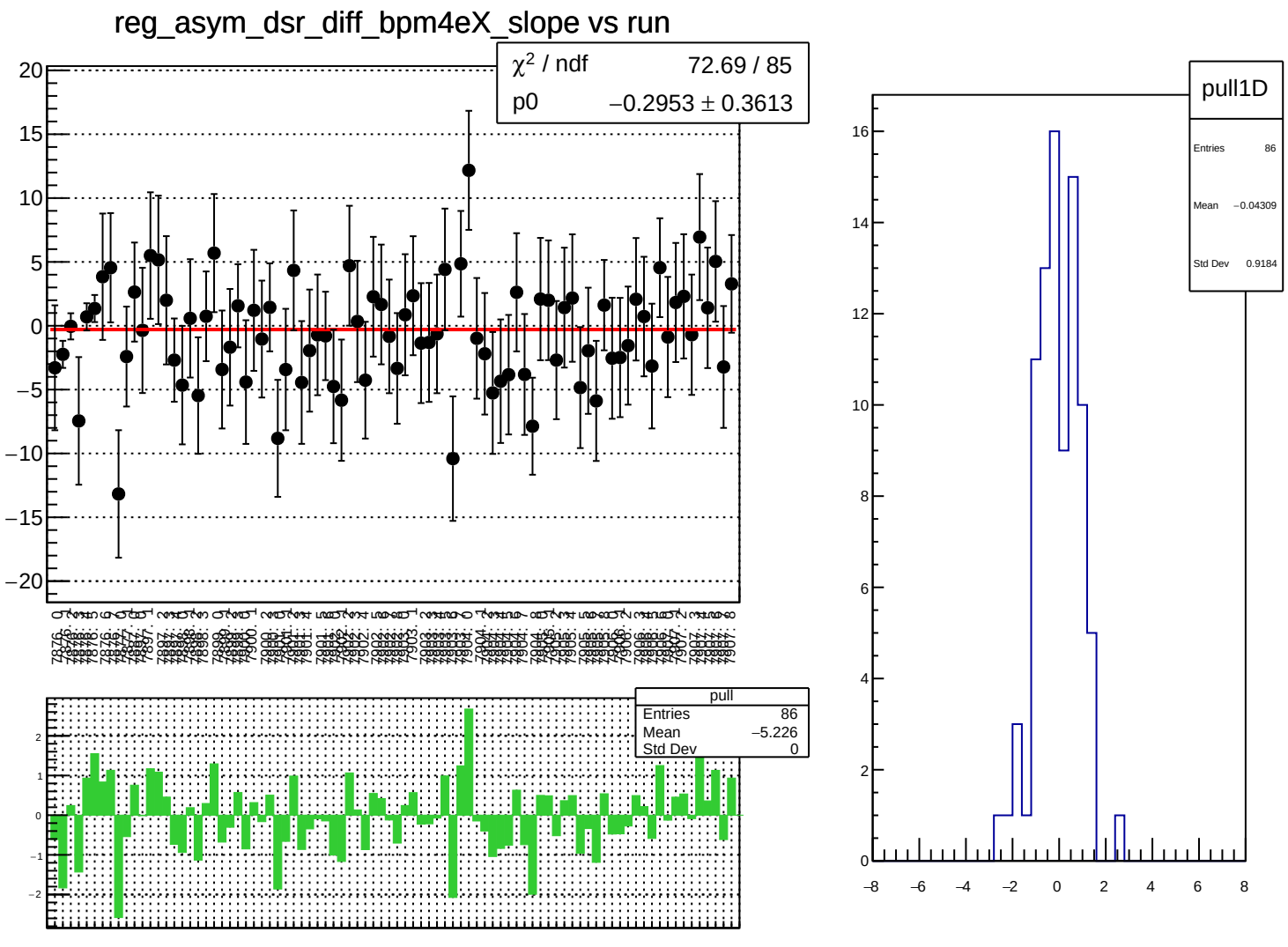

pull1D
Entries 86
Mean −0.01115
Std Dev 0.9055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

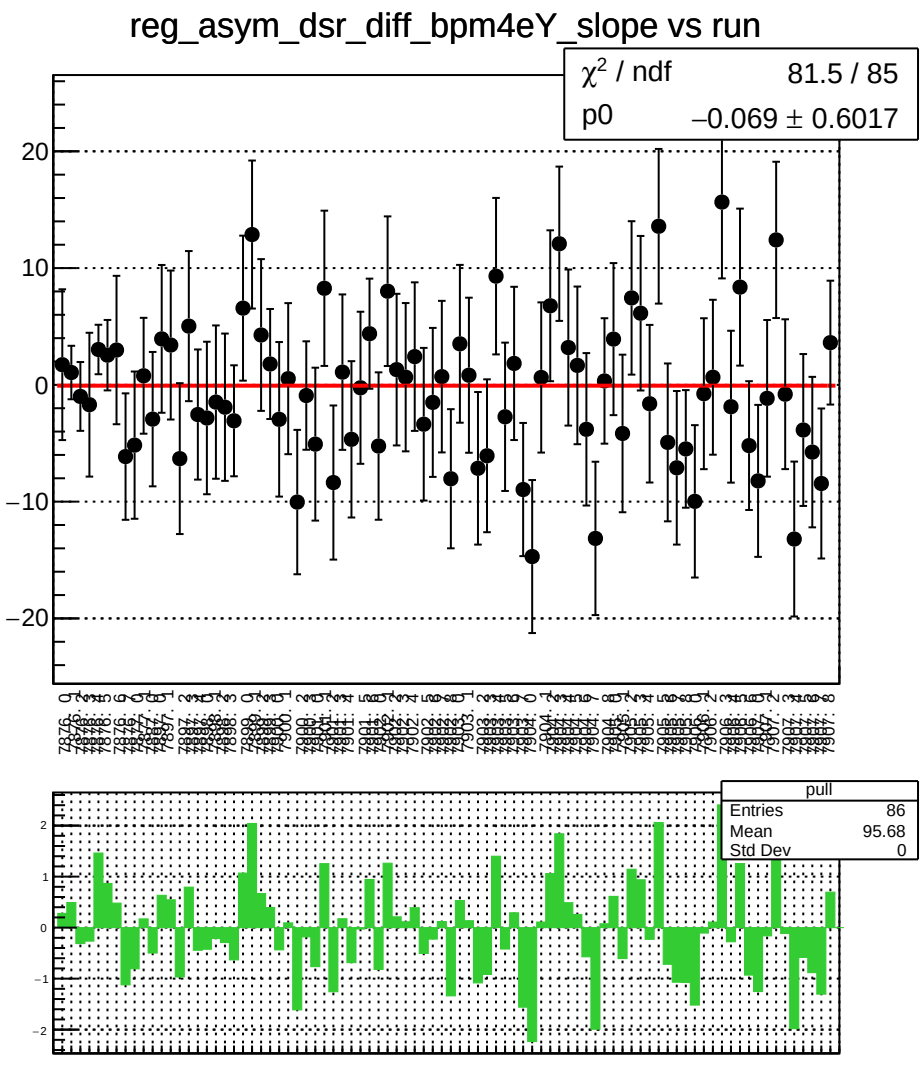

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 71.35 / 85
p0 0.3029 ± 0.4506
pull
Entries 86
Mean 6.36
Std Dev 0

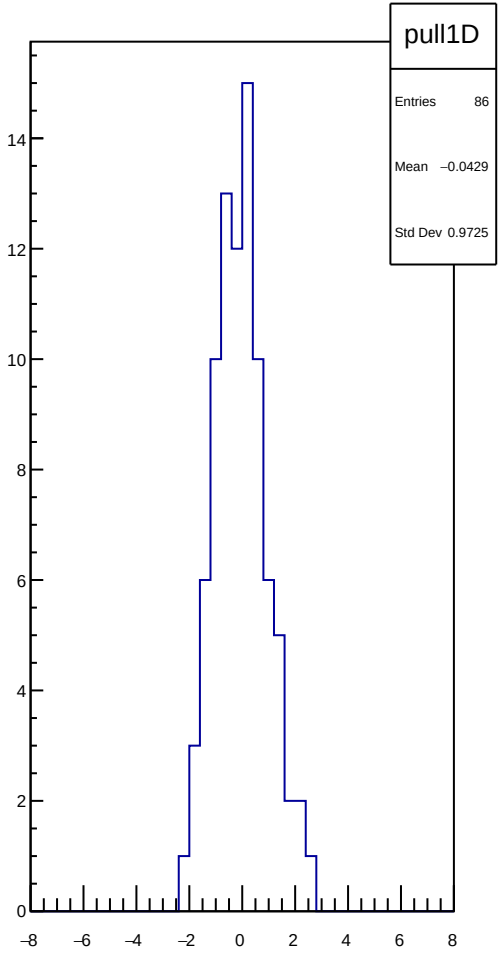

pull1D
Entries 86
Mean 0.05186
Std Dev 0.9093

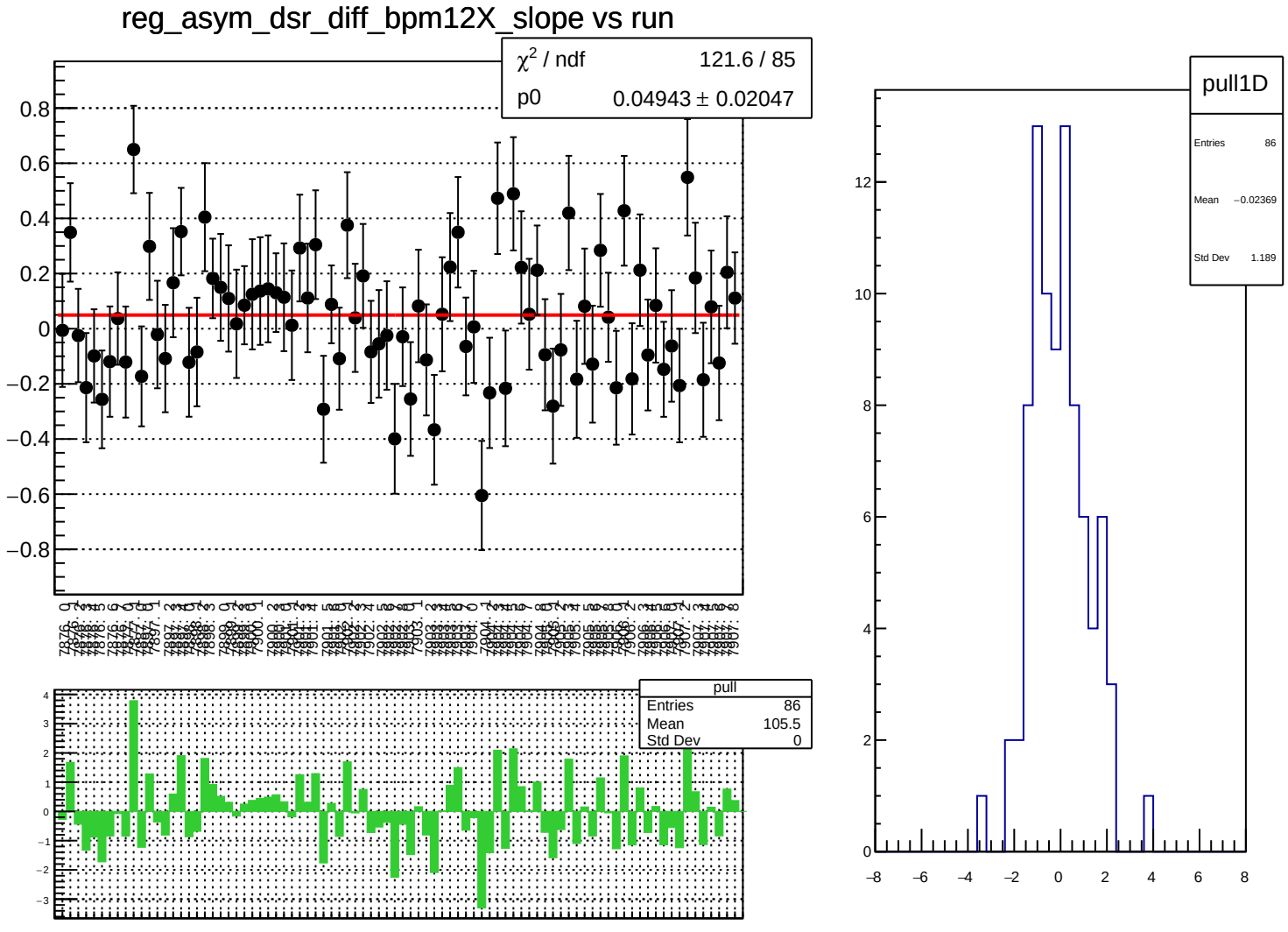

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 80.25 / 85
p0 −0.1045 ± 0.4818
pull
Entries 86
Mean 84.3
Std Dev 0

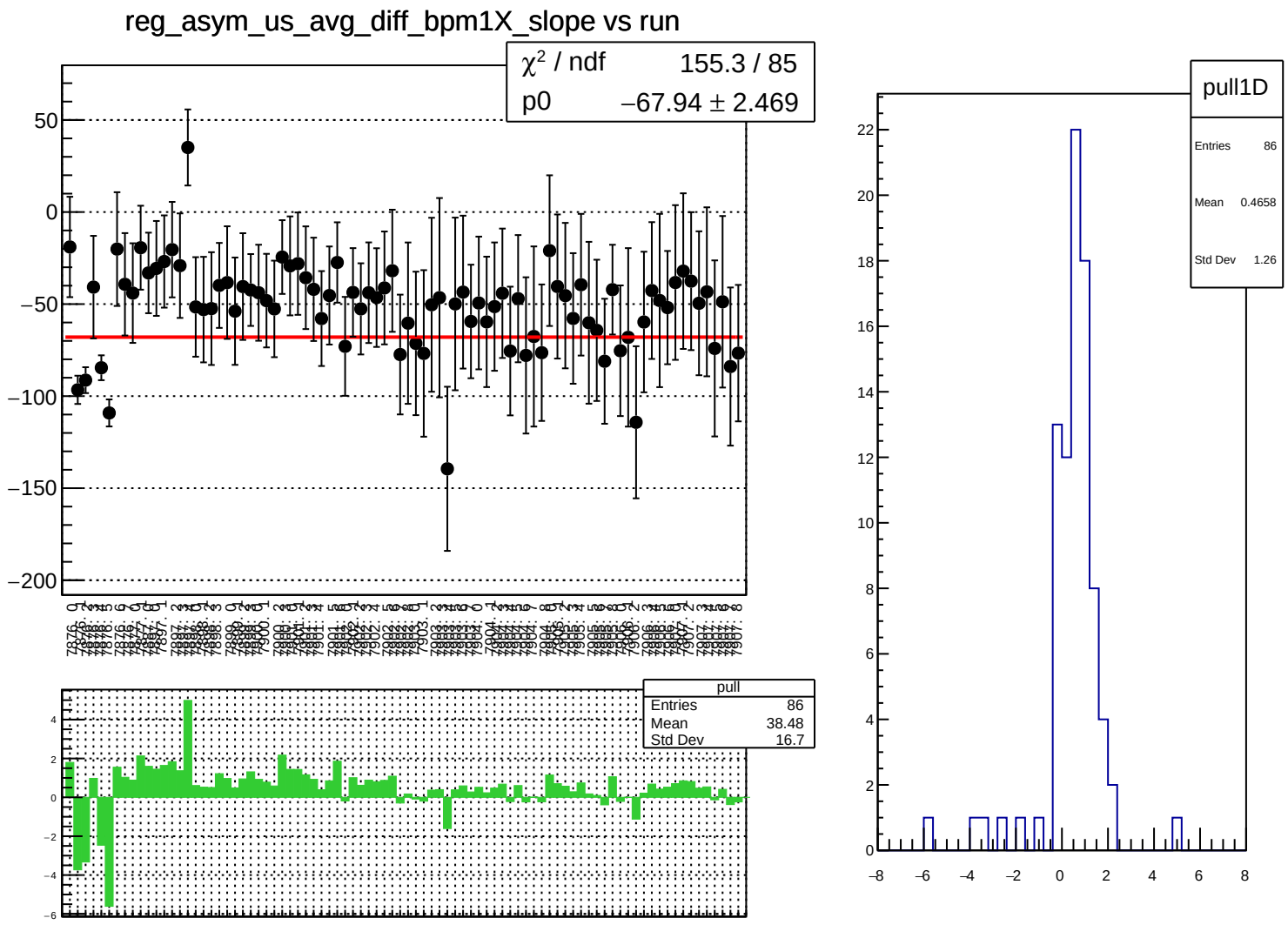

pull1D
Entries 86
Mean 0.06392
Std Dev 0.9639

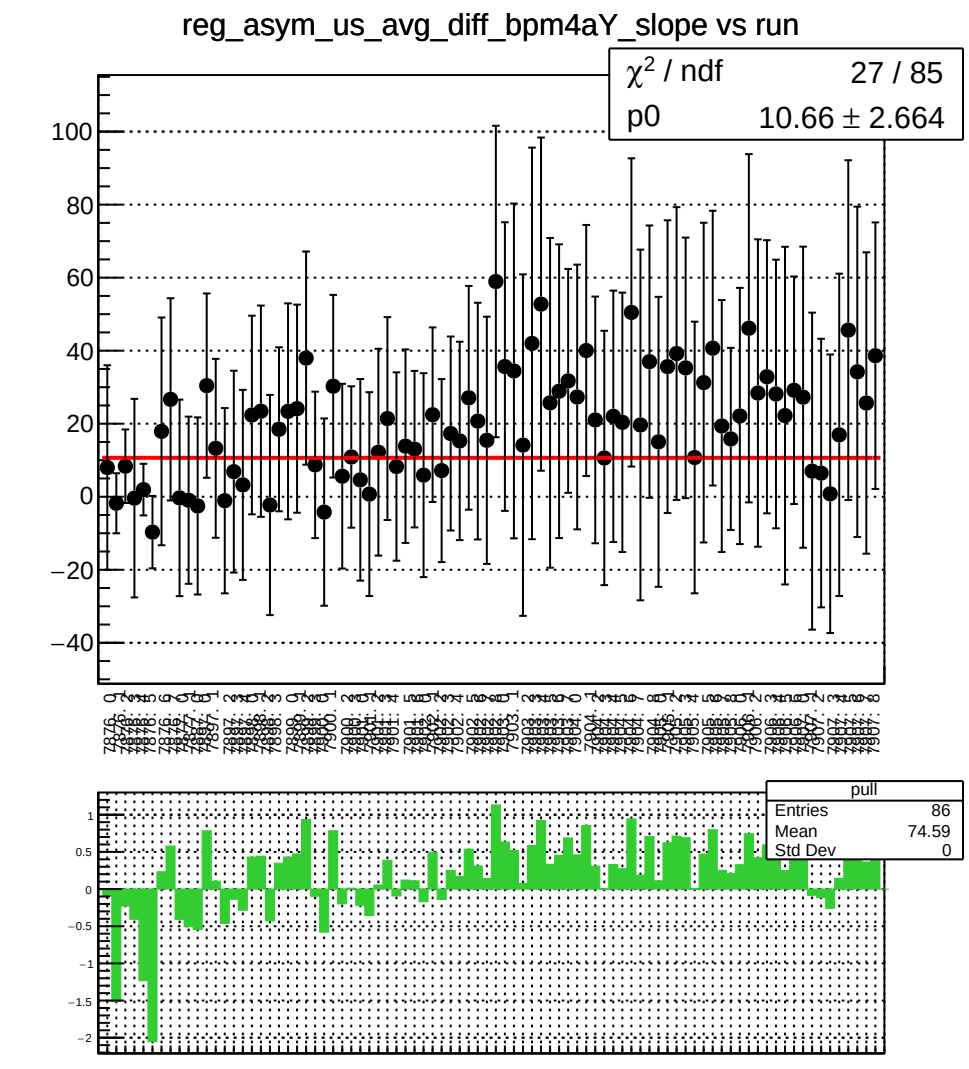

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 72.69 / 85
p0 −0.2953 ± 0.3613
pull
Entries 86
Mean −5.226
Std Dev 0
pull1D
Entries 86
Mean −0.04309
Std Dev 0.9184

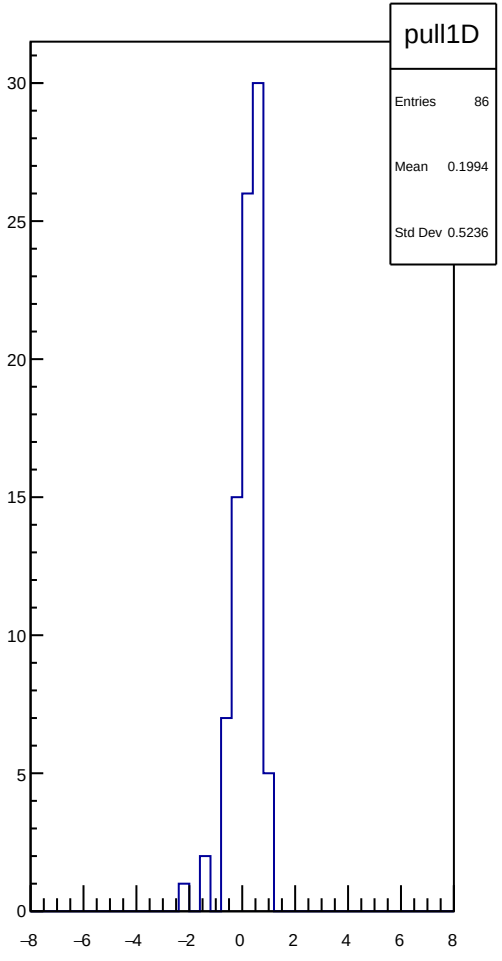

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 81.5 / 85
p0 −0.069 ± 0.6017
pull
Entries 86
Mean 95.68
Std Dev 0

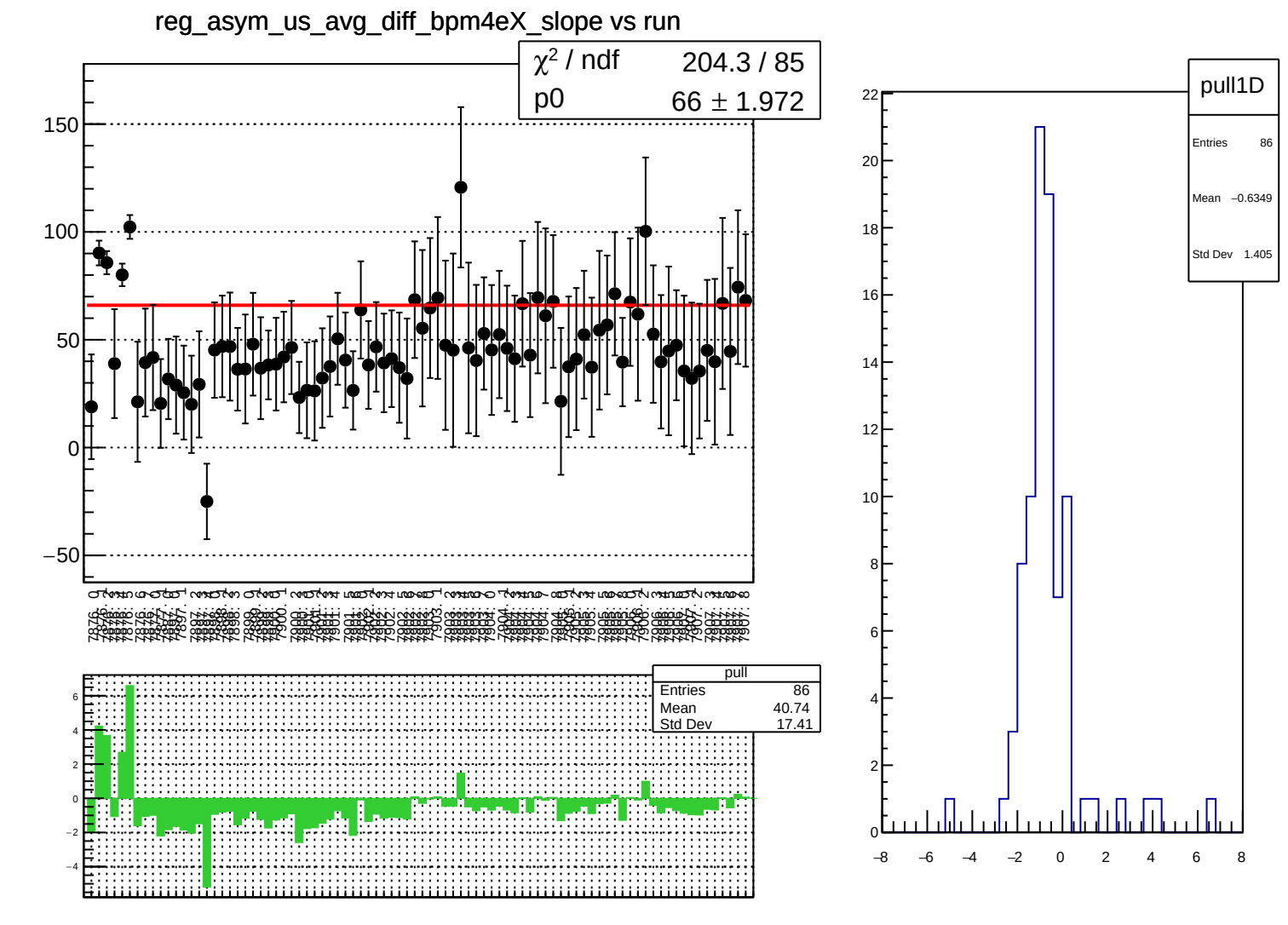

pull1D
Entries 86
Mean −0.0429
Std Dev 0.9725

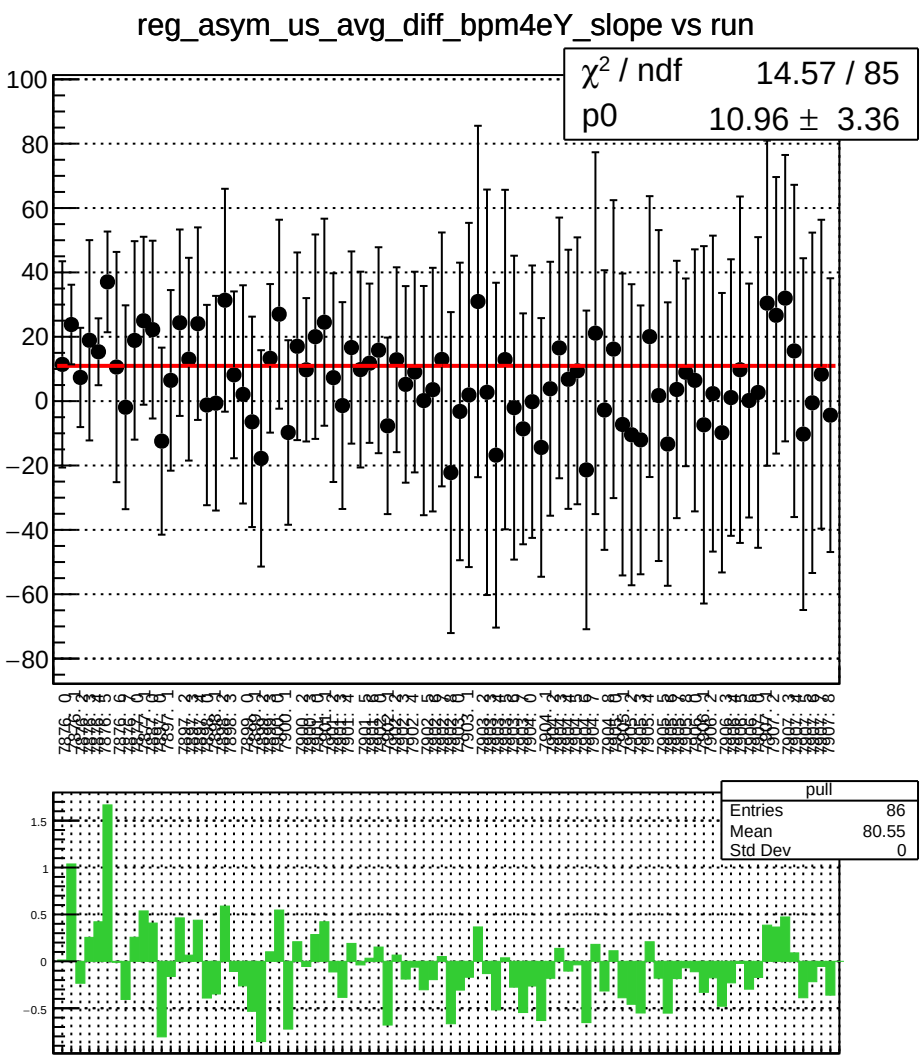

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 121.6 / 85
p0 0.04943 ± 0.02047
pull
Entries 86
Mean 105.5
Std Dev 0
pull1D
Entries 86
Mean −0.02369
Std Dev 1.189

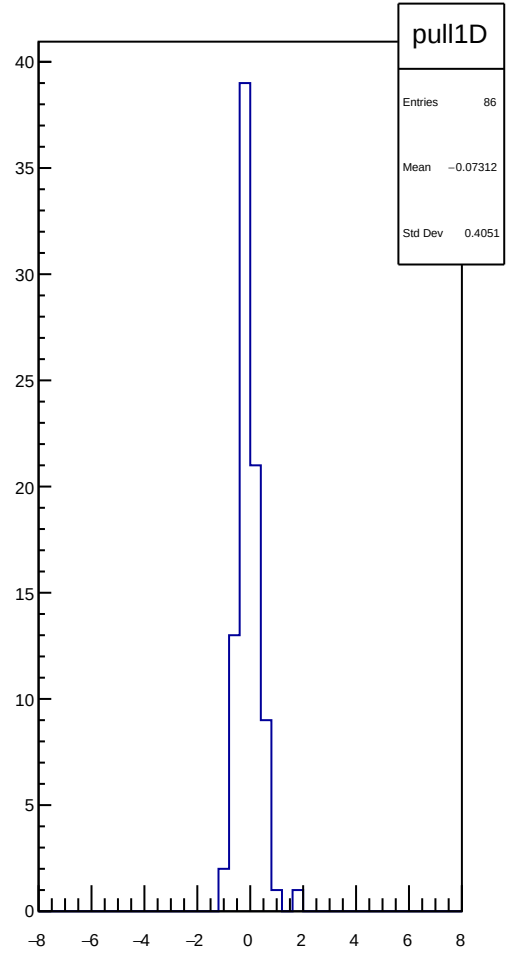

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 155.3 / 85
p0 −67.94 ± 2.469
pull
Entries 86
Mean 38.48
Std Dev 16.7
pull1D
Entries 86
Mean 0.4658
Std Dev 1.26

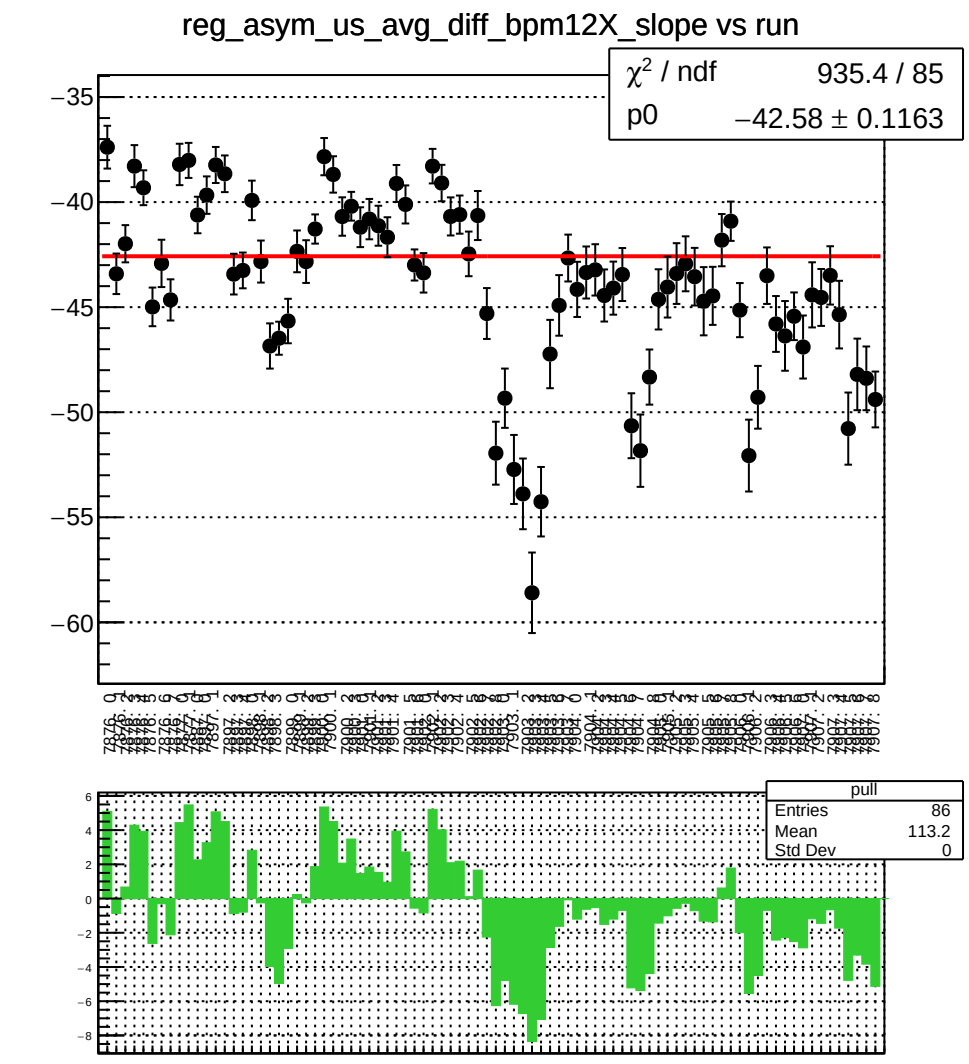

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 27 / 85
p0 10.66 ± 2.664
pull
Entries 86
Mean 74.59
Std Dev 0

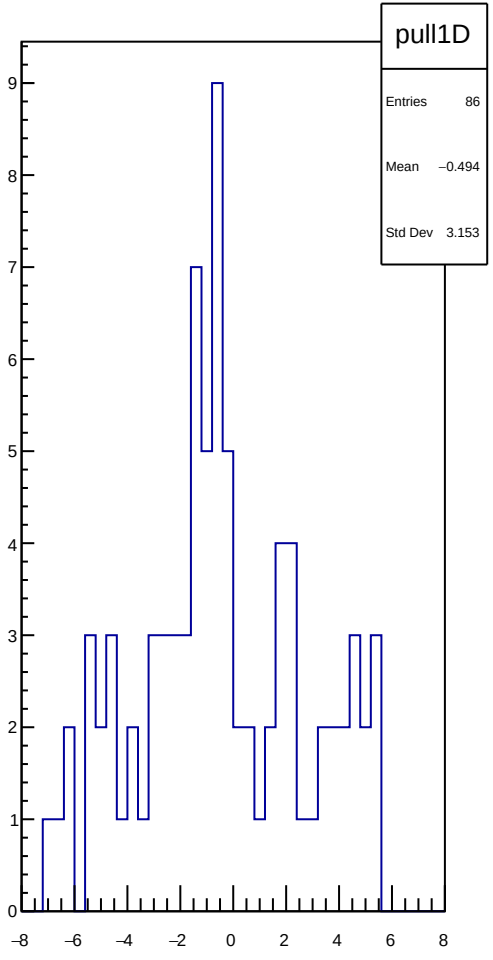

pull1D
Entries 86
Mean 0.1994
Std Dev 0.5236

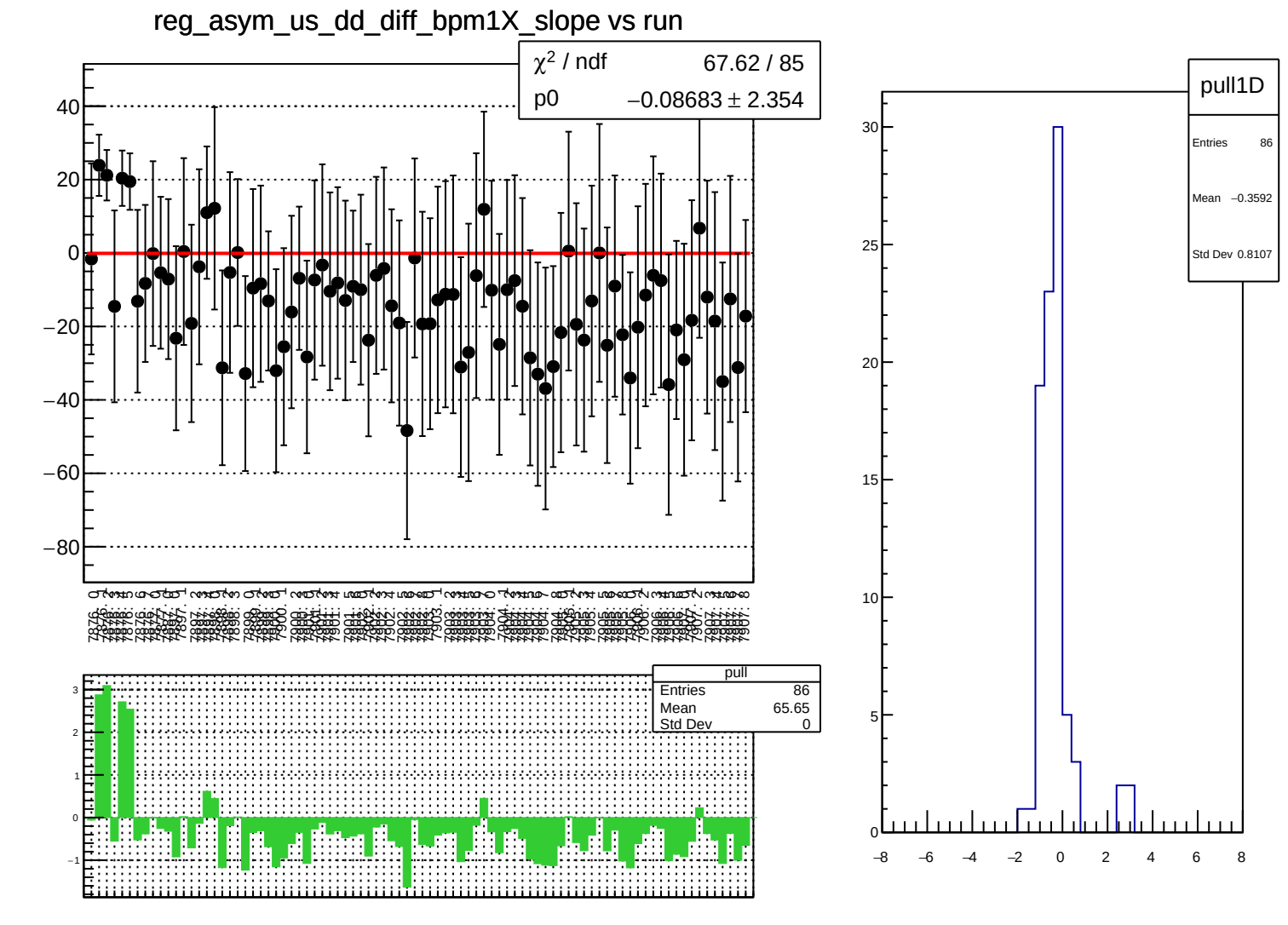

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 204.3 / 85
p0 66 ± 1.972
150
100
50
0
−50
pull
Entries 86
Mean 40.74
Std Dev 17.41
6
4
2
0
−2
−4
pull1D
Entries 86
Mean −0.6349
Std Dev 1.405
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

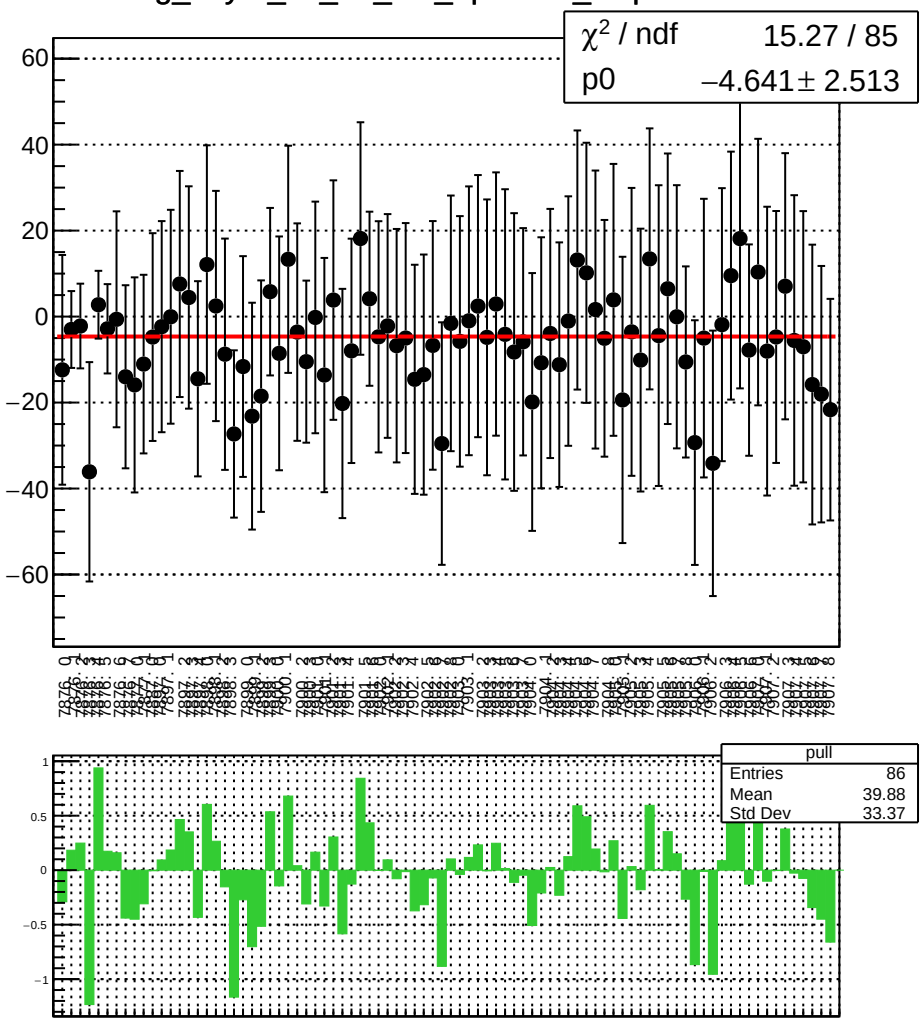

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.57 / 85
p0 10.96 ± 3.36
pull
Entries 86
Mean 80.55
Std Dev 0

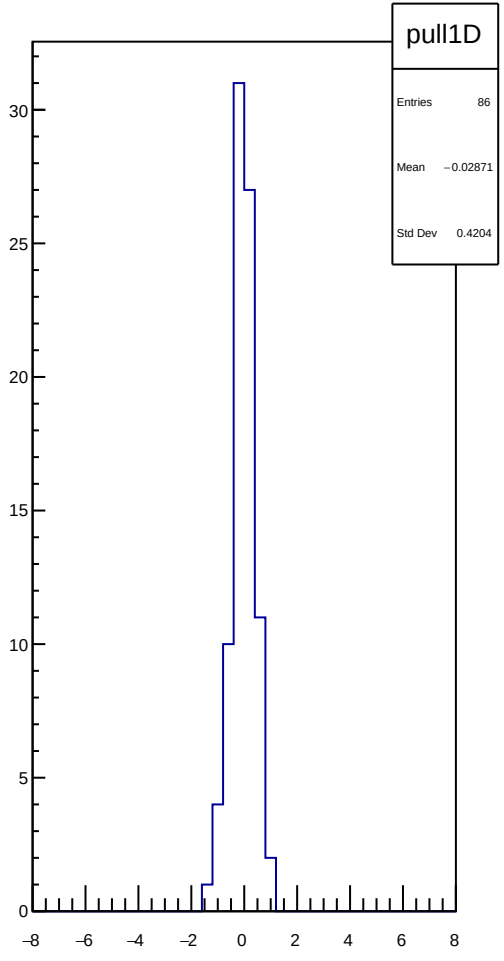

pull1D
Entries 86
Mean −0.07312
Std Dev 0.4051

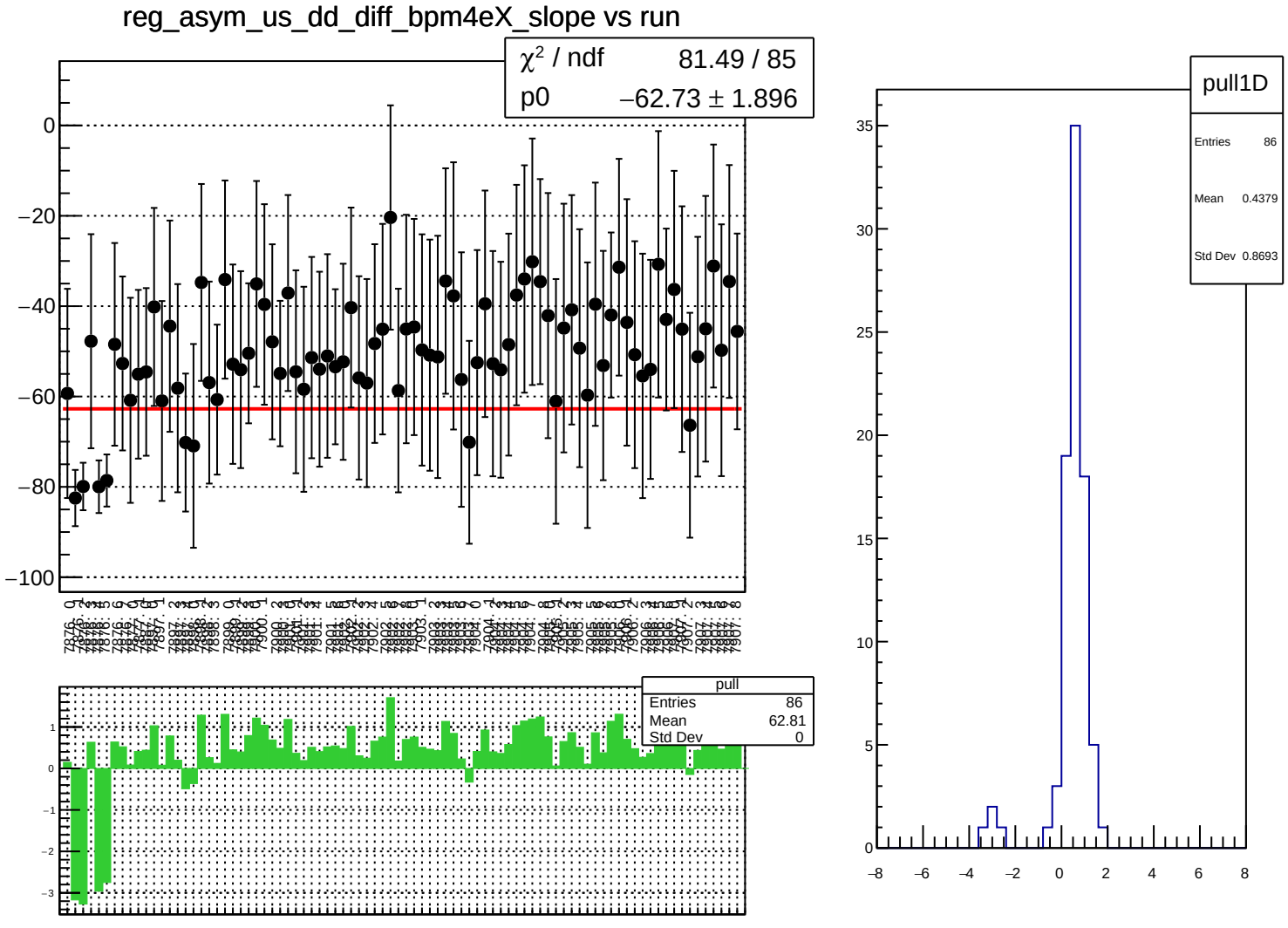

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 935.4 / 85
p0 −42.58 ± 0.1163
pull
Entries 86
Mean 113.2
Std Dev 0

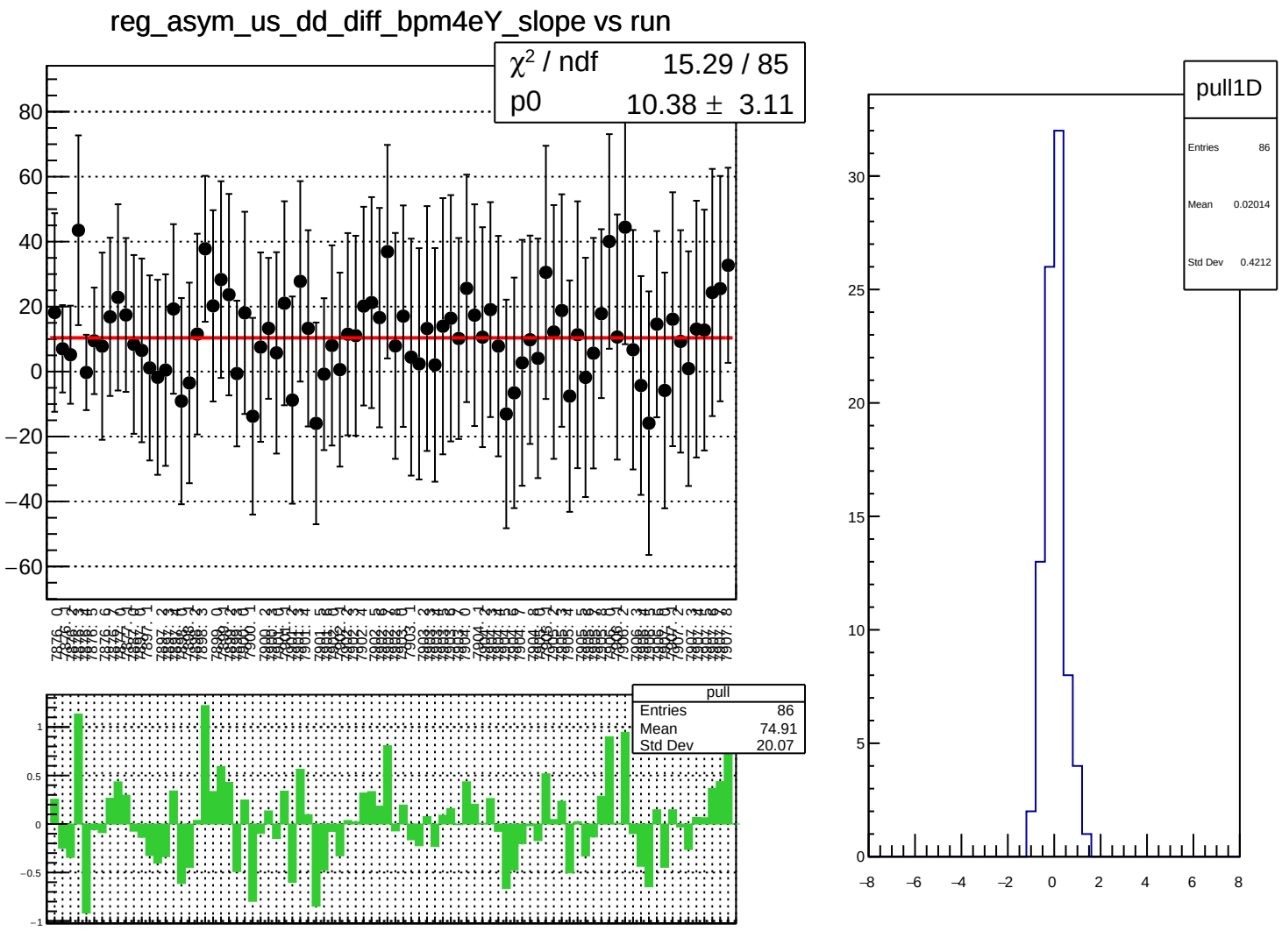

pull1D
Entries 86
Mean −0.494
Std Dev 3.153

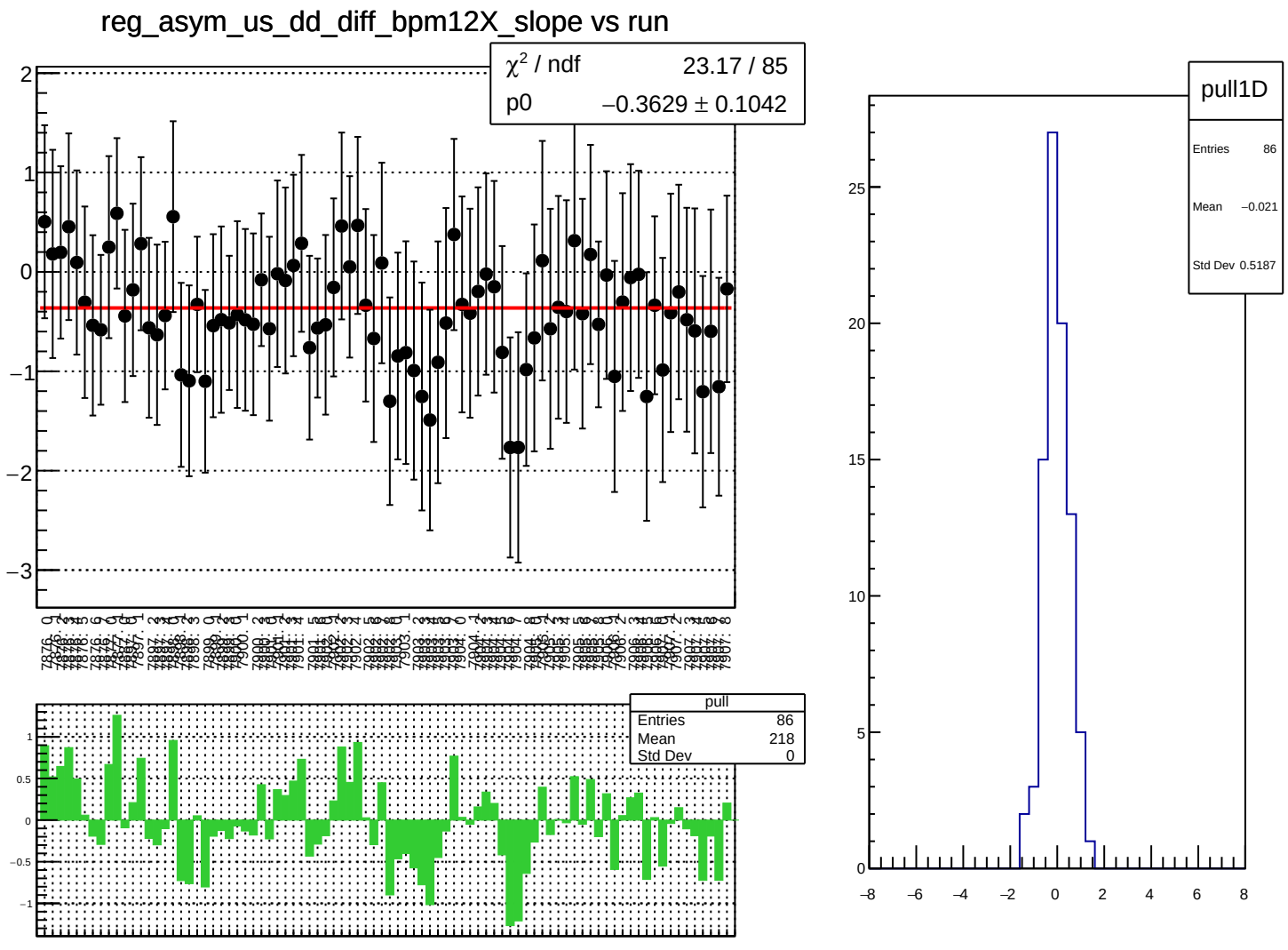

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 67.62 / 85
p0 −0.08683 ± 2.354
pull
Entries 86
Mean 65.65
Std Dev 0
pull1D
Entries 86
Mean −0.3592
Std Dev 0.8107

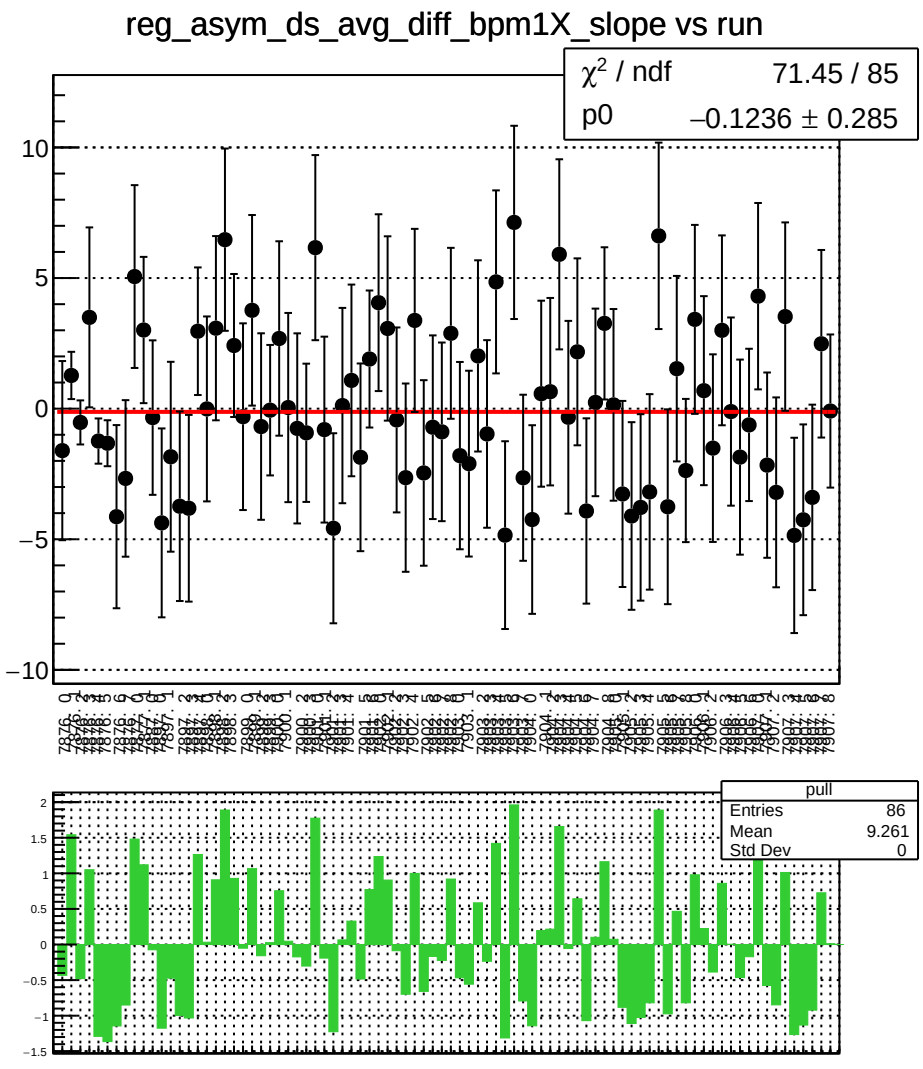

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.27 / 85
p0 −4.641 ± 2.513
pull
Entries 86
Mean 39.88
Std Dev 33.37

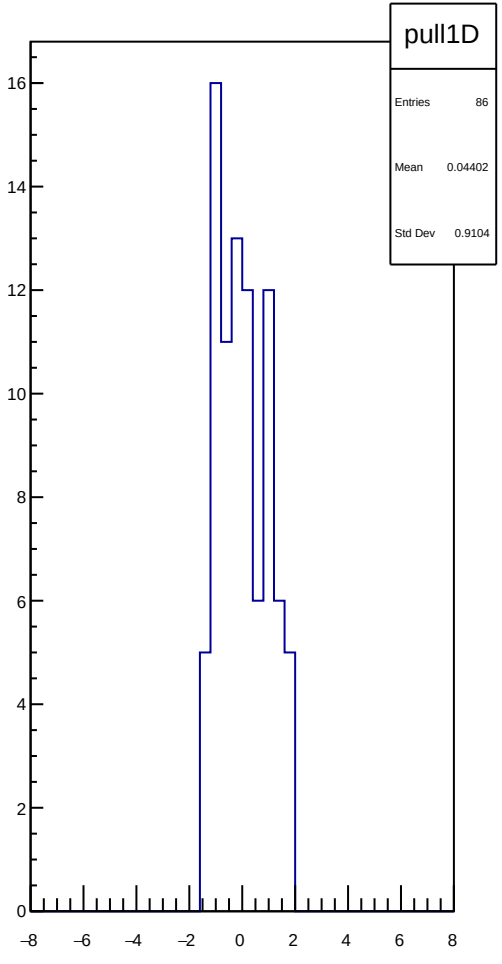

pull1D
Entries 86
Mean −0.02871
Std Dev 0.4204

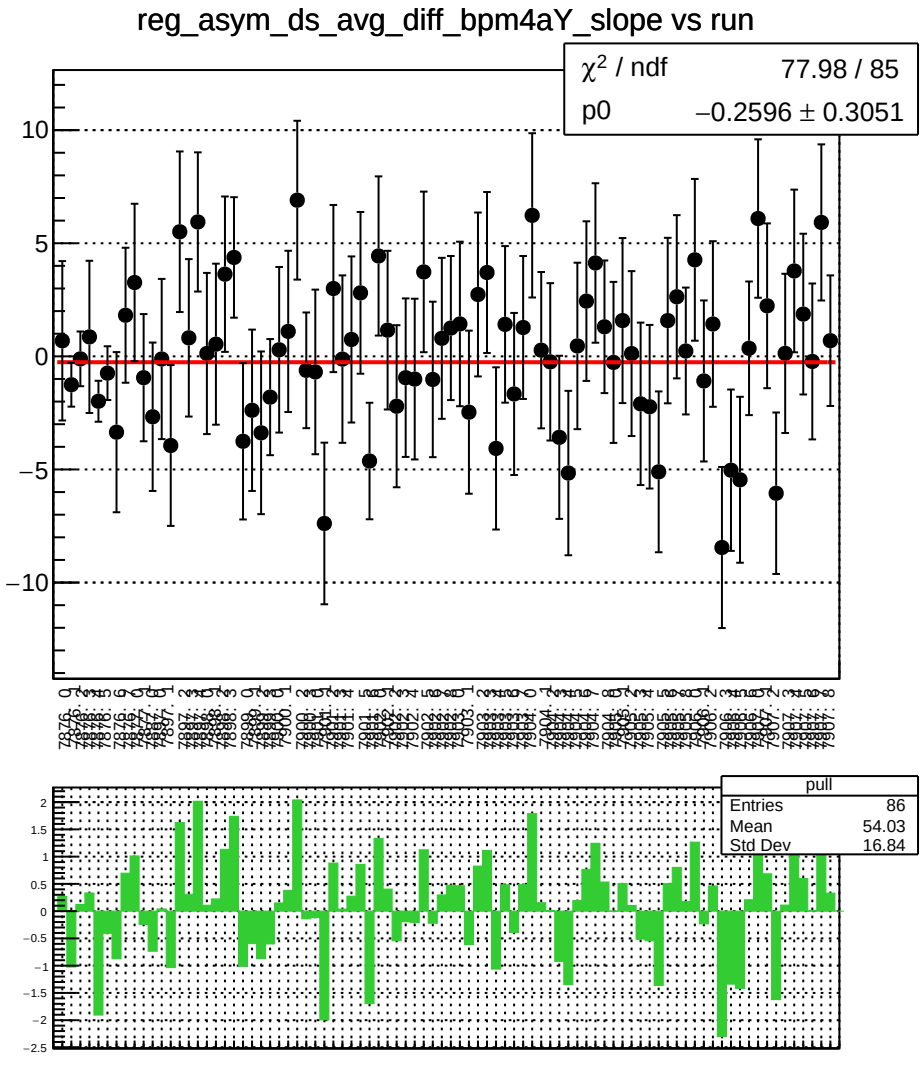

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.49 / 85
p0 −62.73 ± 1.896
pull
Entries 86
Mean 62.81
Std Dev 0
pull1D
Entries 86
Mean 0.4379
Std Dev 0.8693

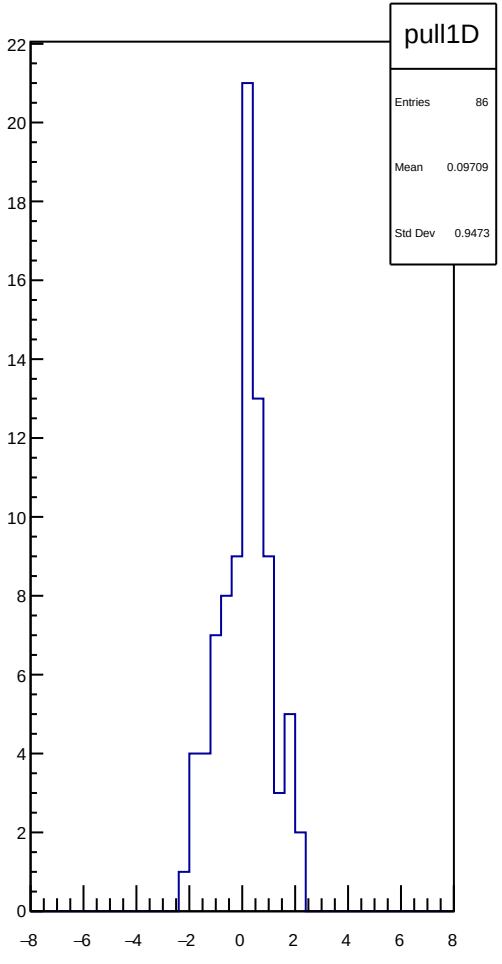

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.29 / 85
p0 10.38 ± 3.11
pull
Entries 86
Mean 74.91
Std Dev 20.07
pull1D
Entries 86
Mean 0.02014
Std Dev 0.4212

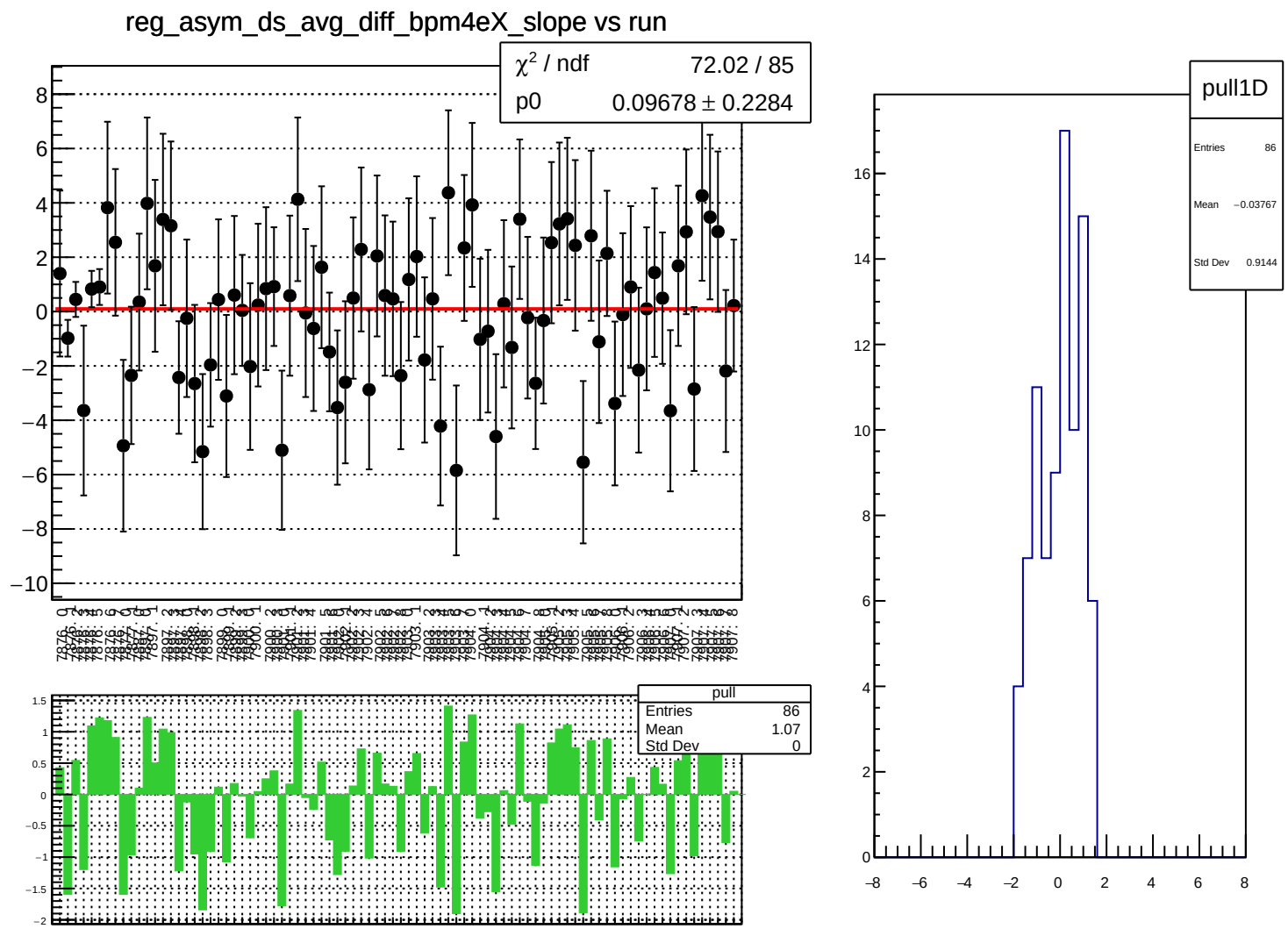

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 23.17 / 85
p0 −0.3629 ± 0.1042
pull
Entries 86
Mean 218
Std Dev 0
pull1D
Entries 86
Mean −0.021
Std Dev 0.5187

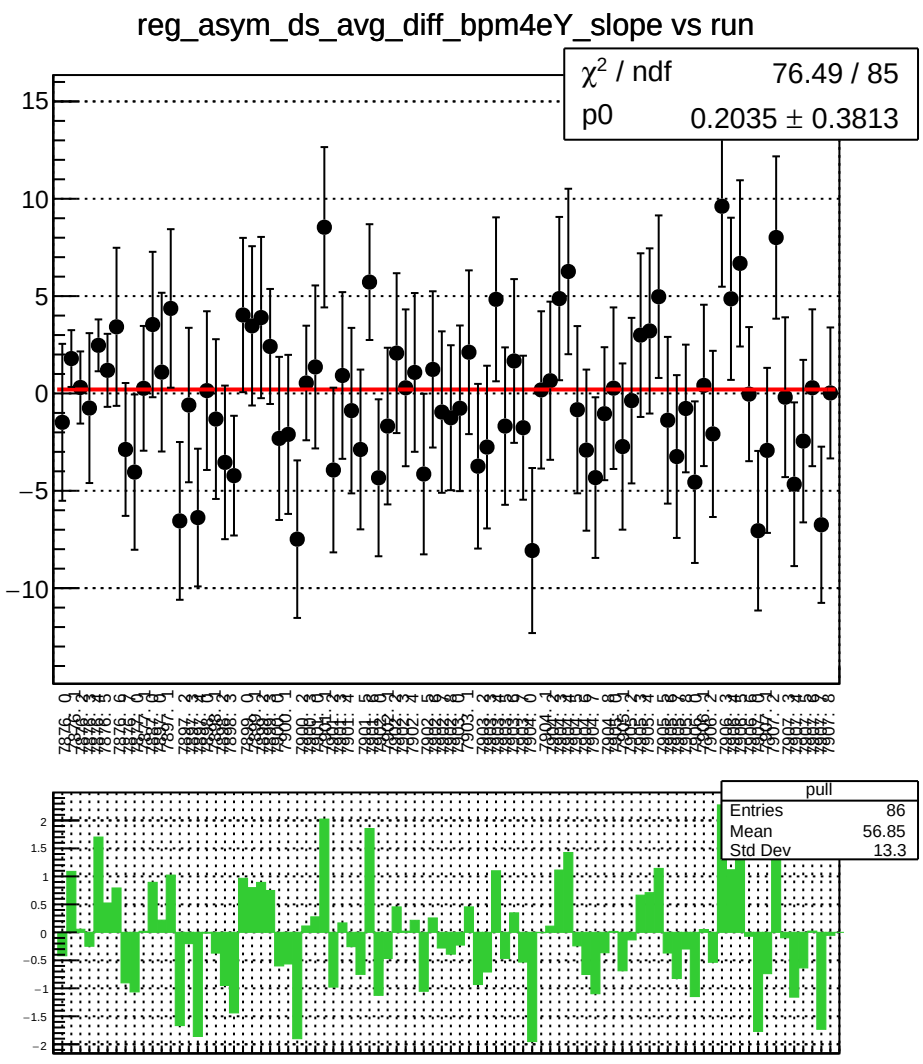

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 71.45 / 85
p0 −0.1236 ± 0.285
pull
Entries 86
Mean 9.261
Std Dev 0

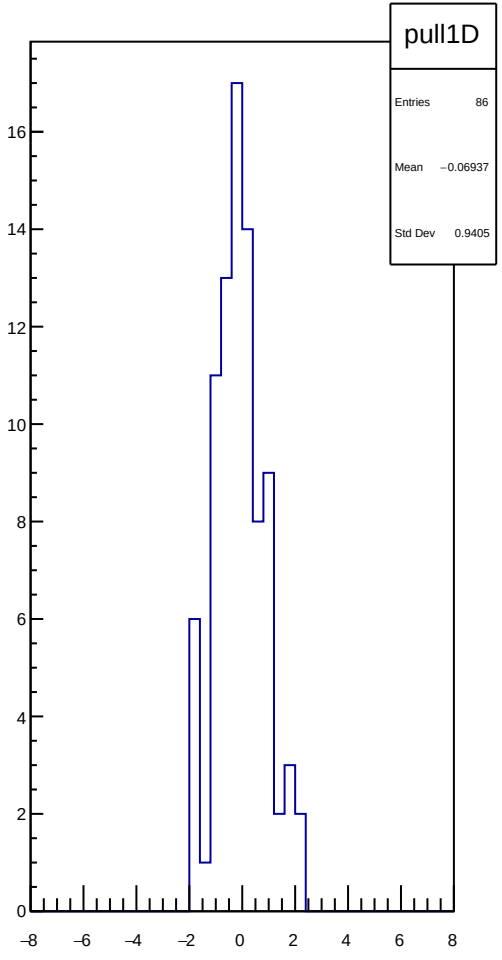

pull1D
Entries 86
Mean 0.04402
Std Dev 0.9104

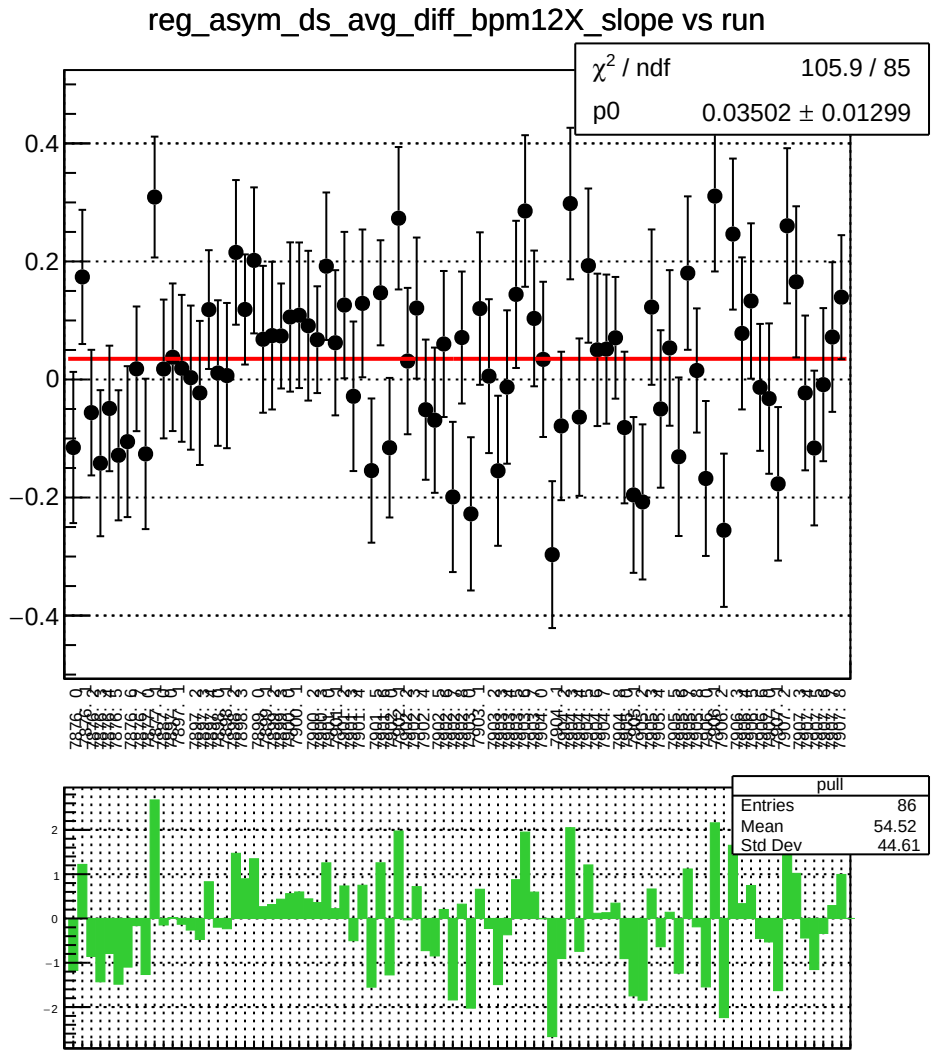

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.98 / 85
p0 −0.2596 ± 0.3051
pull
Entries 86
Mean 54.03
Std Dev 16.84

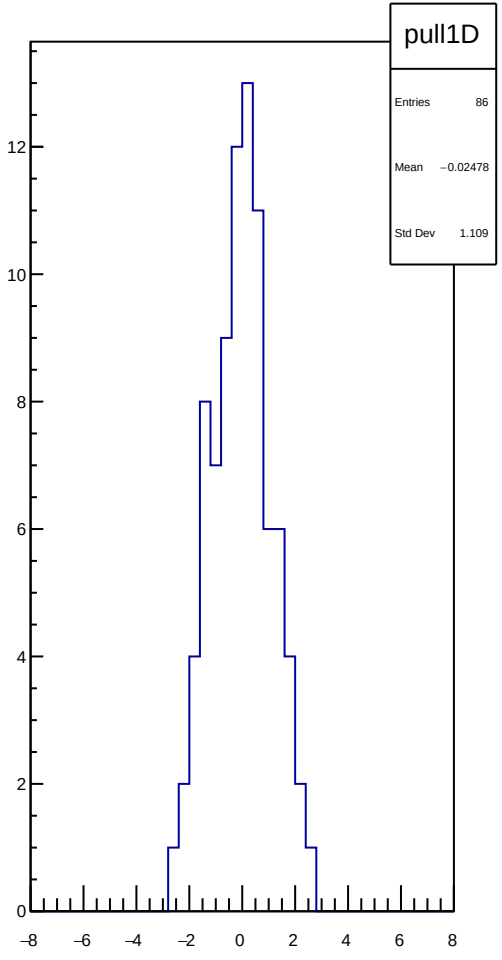

pull1D
Entries 86
Mean 0.09709
Std Dev 0.9473

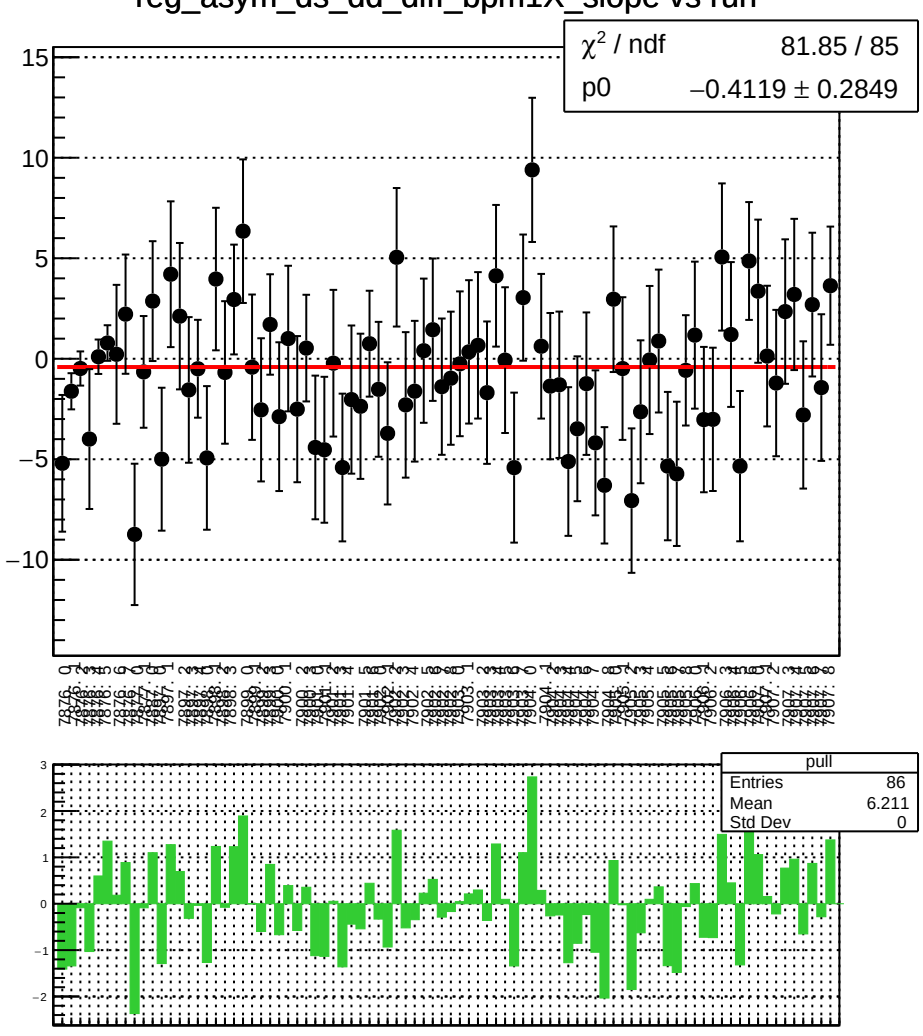

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.02 / 85
p0 0.09678 ± 0.2284
pull
Entries 86
Mean 1.07
Std Dev 0
pull1D
Entries 86
Mean −0.03767
Std Dev 0.9144

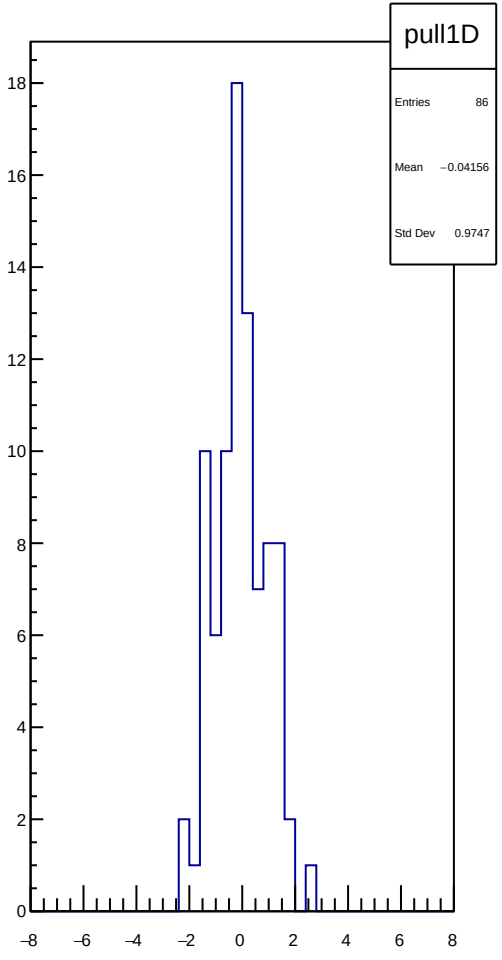

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.49 / 85
p0 0.2035 ± 0.3813
pull
Entries 86
Mean 56.85
Std Dev 13.3

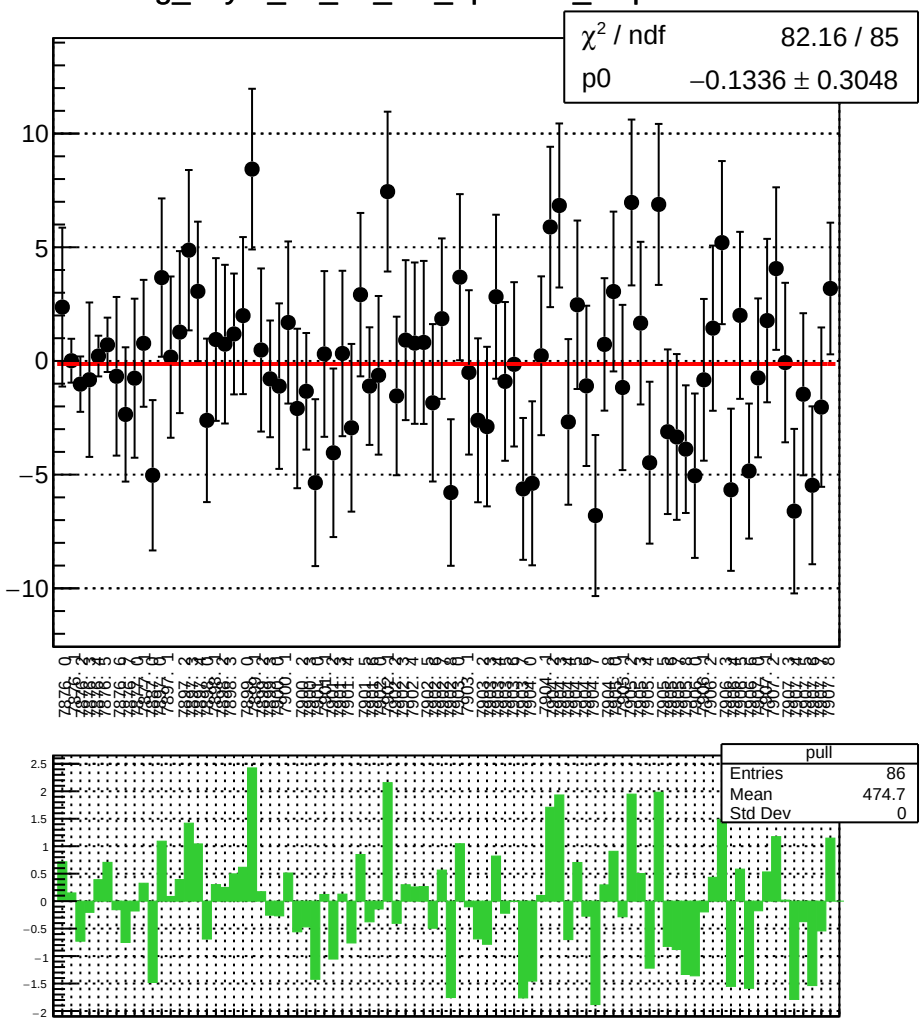

pull1D
Entries 86
Mean −0.06937
Std Dev 0.9405

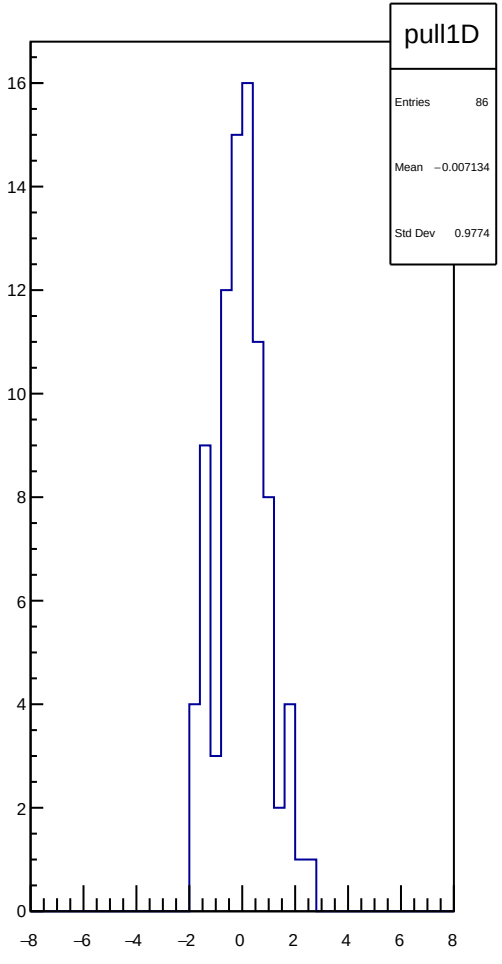

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 105.9 / 85
p0 0.03502 ± 0.01299
pull
Entries 86
Mean 54.52
Std Dev 44.61

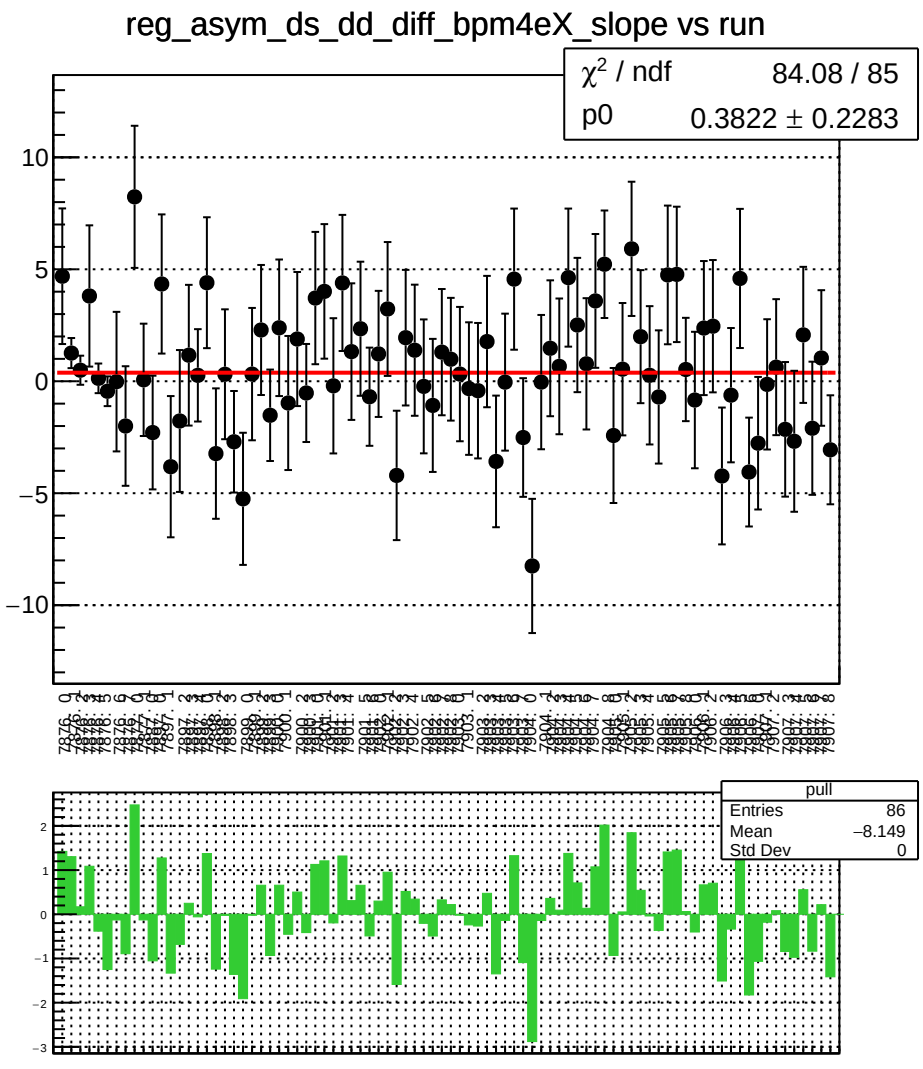

pull1D
Entries 86
Mean −0.02478
Std Dev 1.109

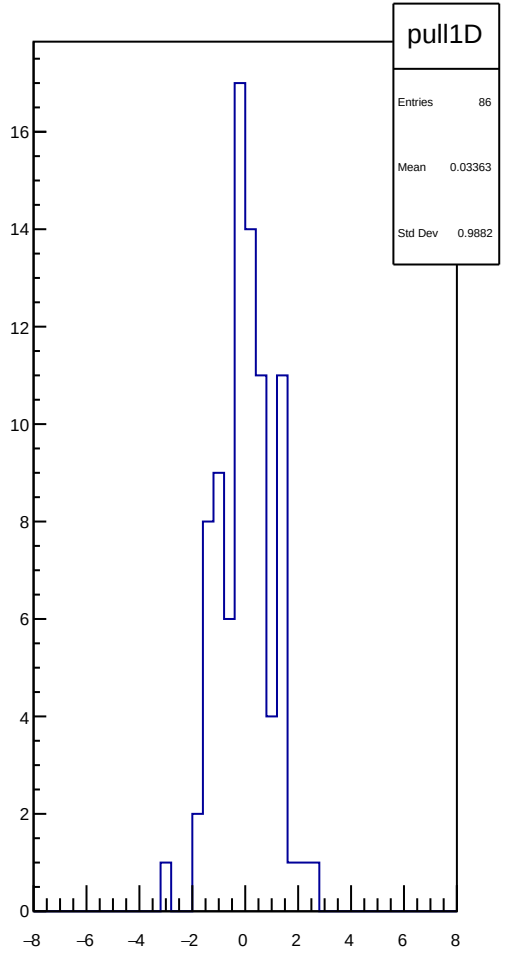

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 81.85 / 85
p0 −0.4119 ± 0.2849
pull
Entries 86
Mean 6.211
Std Dev 0

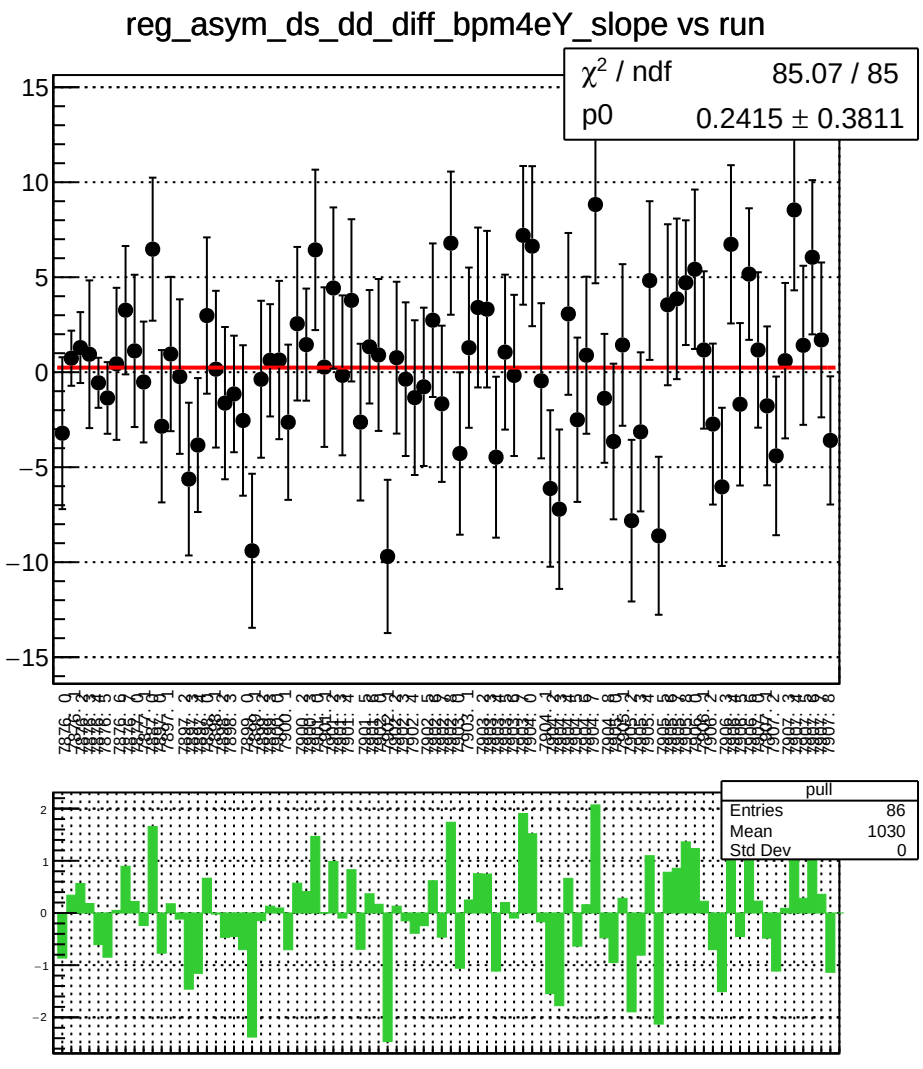

pull1D
Entries 86
Mean −0.04156
Std Dev 0.9747

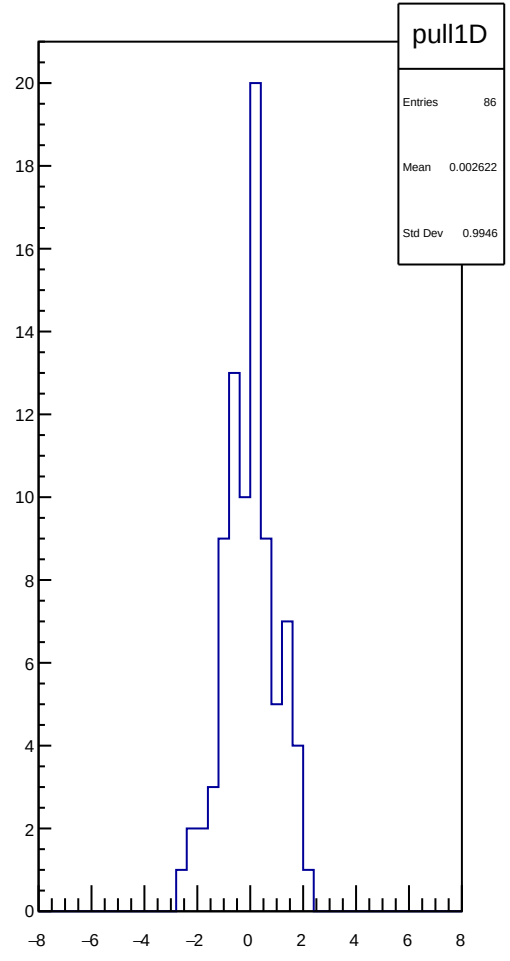

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.16 / 85
p0 −0.1336 ± 0.3048
pull
Entries 86
Mean 474.7
Std Dev 0

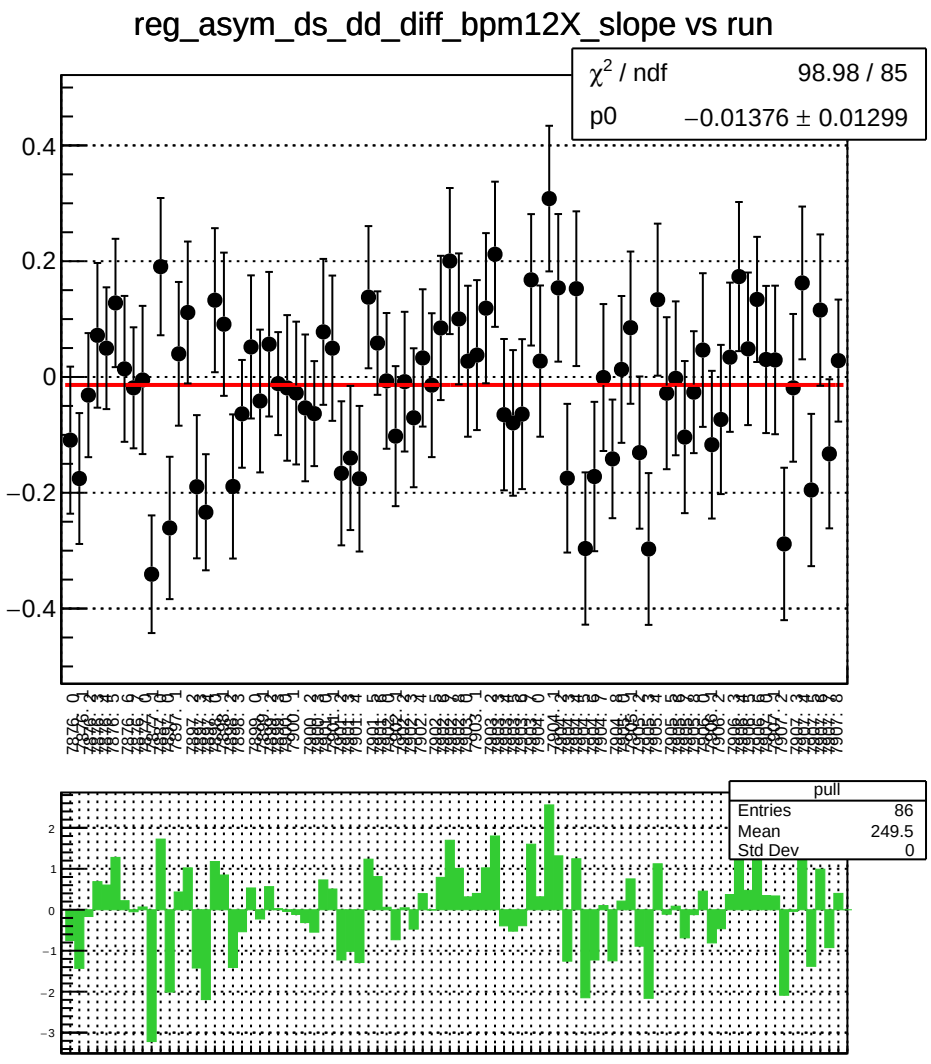

pull1D
Entries 86
Mean −0.007134
Std Dev 0.9774

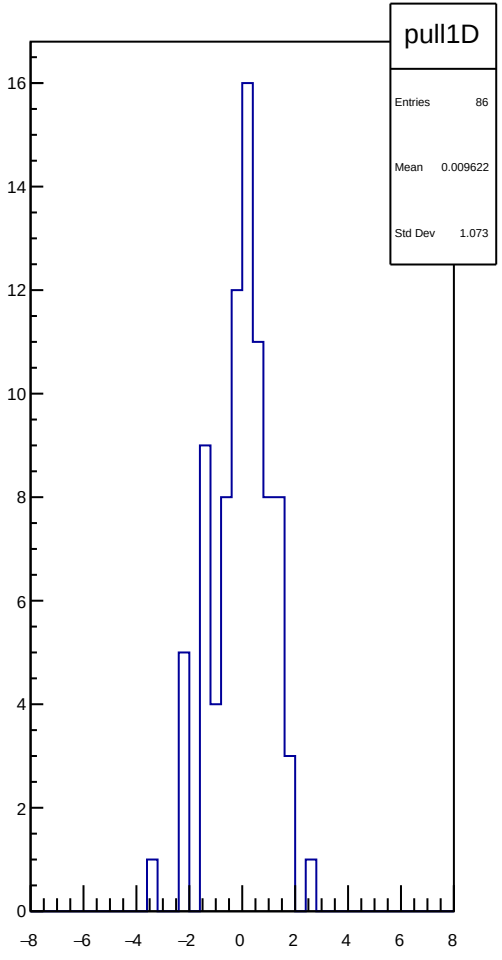

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.08 / 85
p0 0.3822 ± 0.2283
pull
Entries 86
Mean −8.149
Std Dev 0

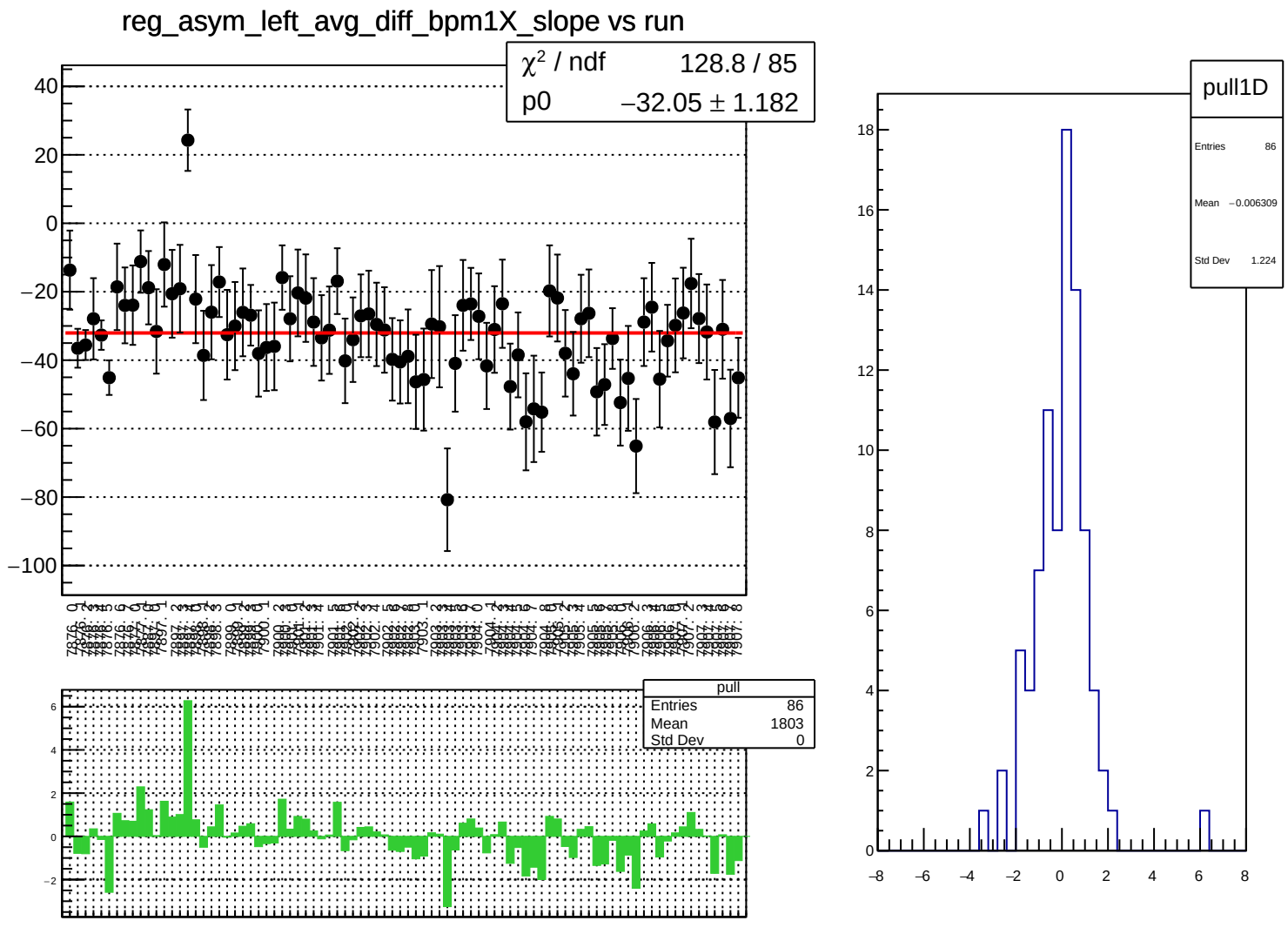

pull1D
Entries 86
Mean 0.03363
Std Dev 0.9882

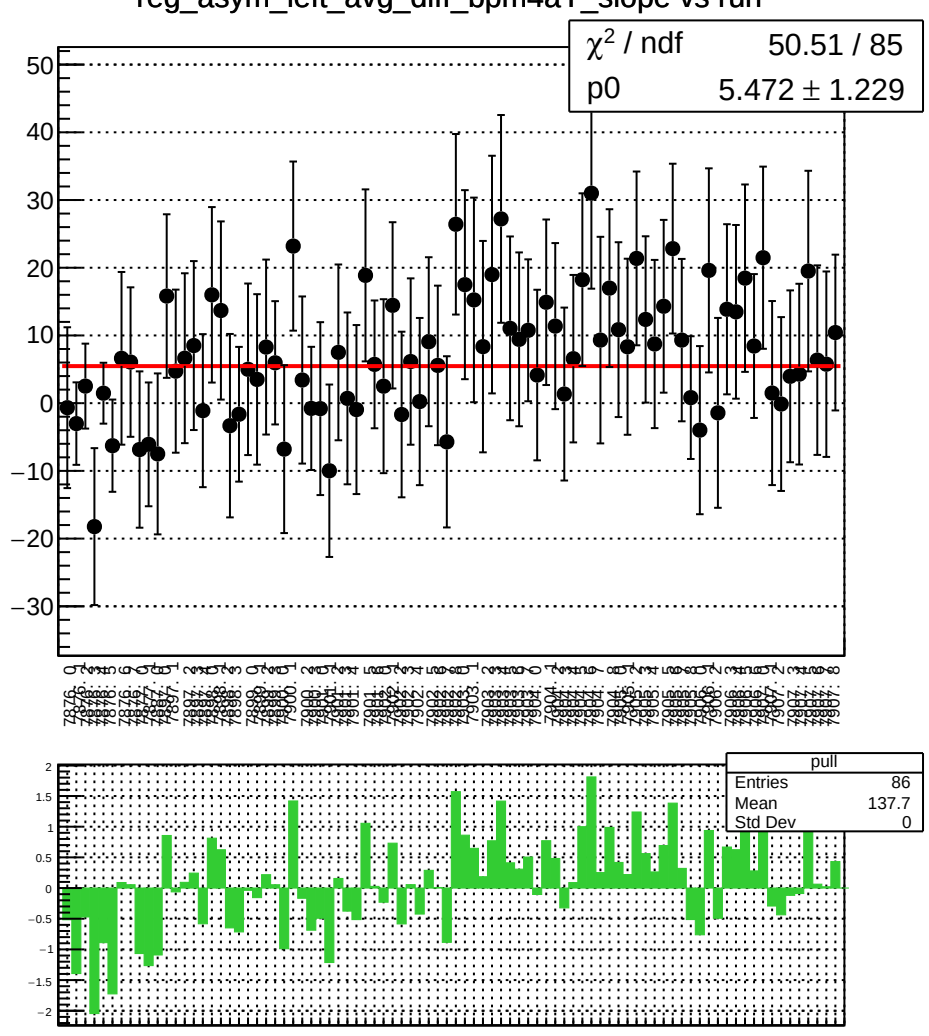

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.07 / 85
p0 0.2415 ± 0.3811
pull
Entries 86
Mean 1030
Std Dev 0

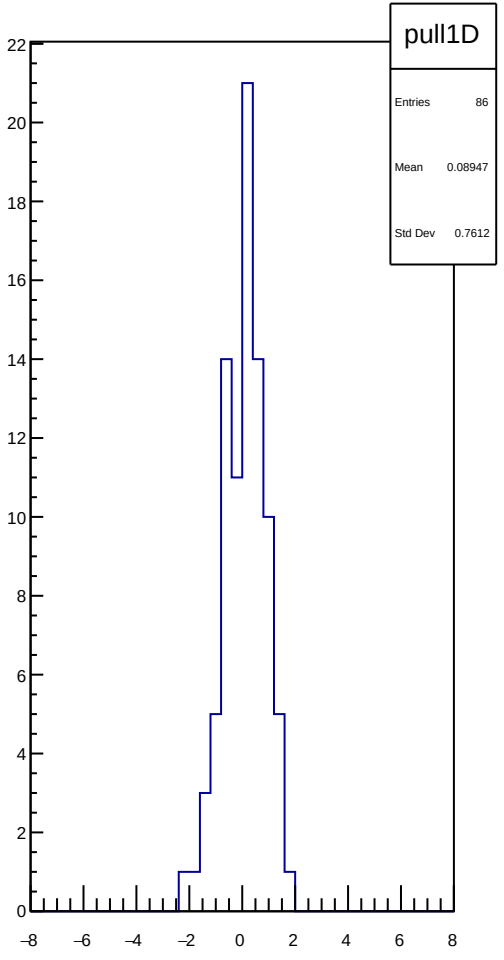

pull1D
Entries 86
Mean 0.002622
Std Dev 0.9946

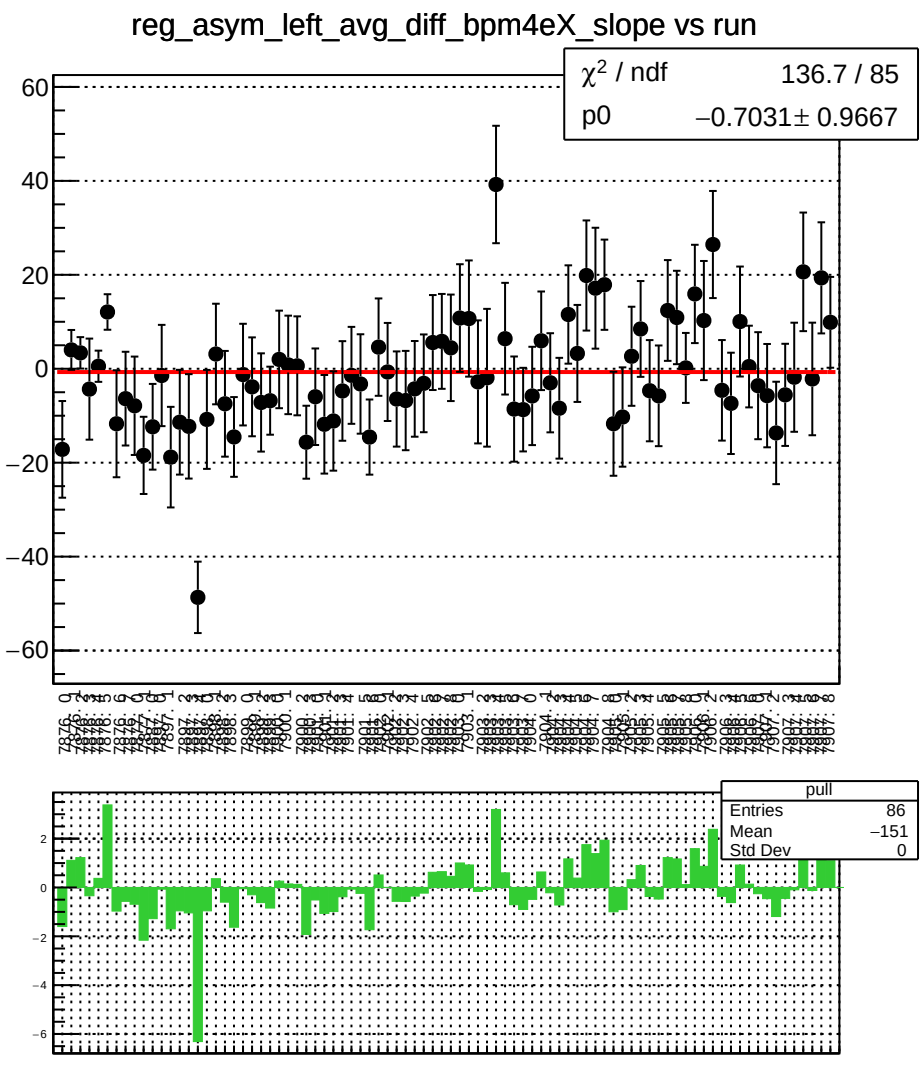

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 98.98 / 85
p0 −0.01376 ± 0.01299
pull
Entries 86
Mean 249.5
Std Dev 0

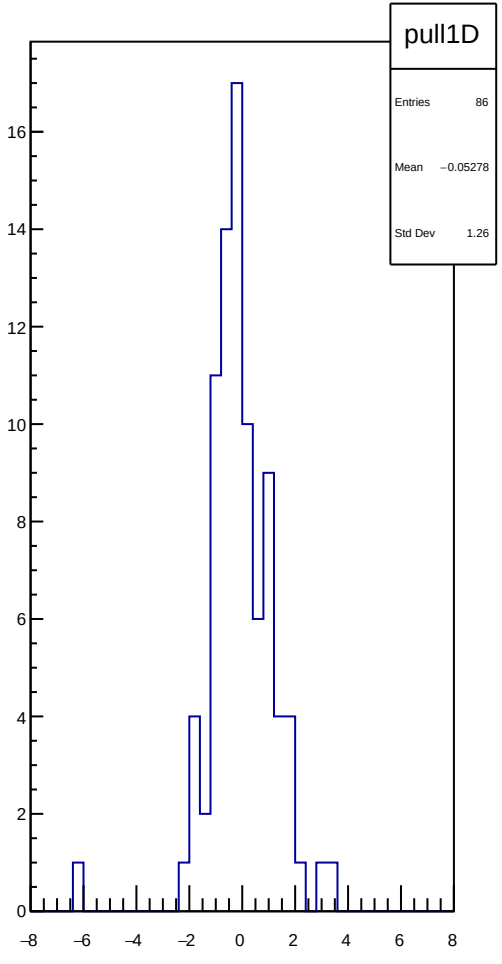

pull1D
Entries 86
Mean 0.009622
Std Dev 1.073

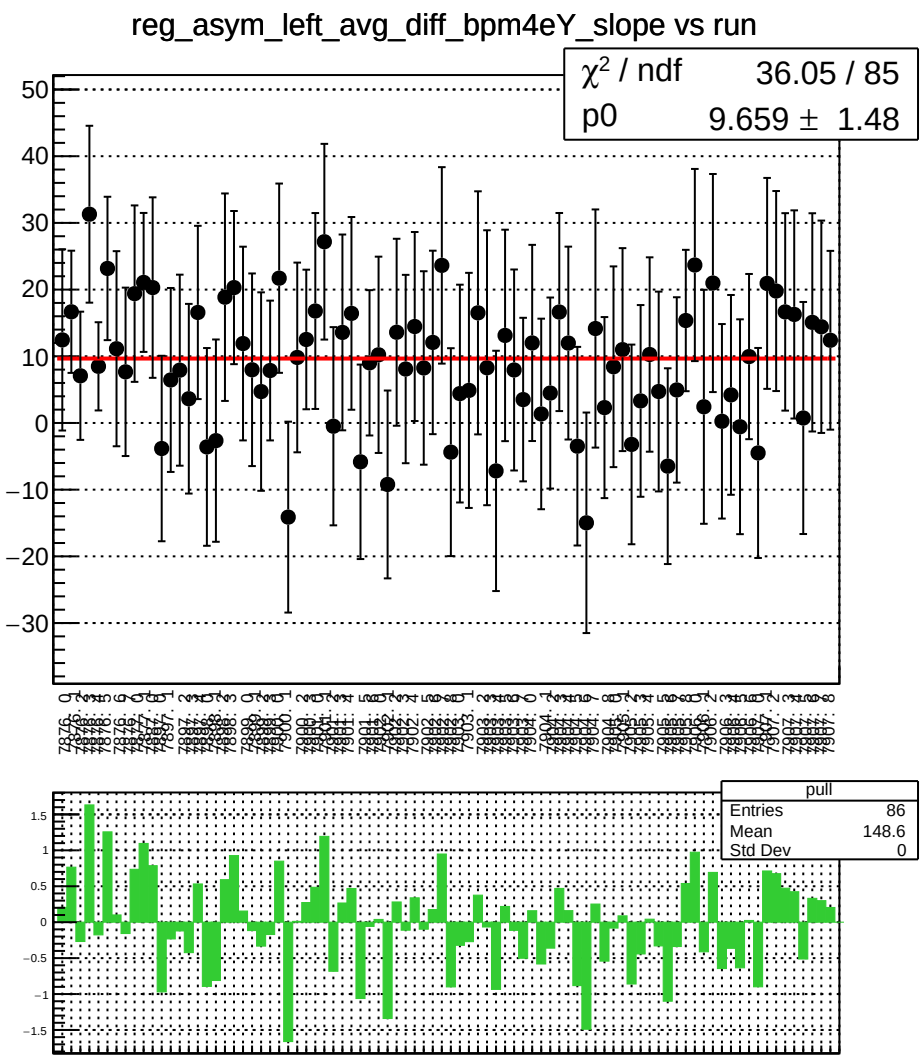

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 128.8 / 85
p0 −32.05 ± 1.182
pull
Entries 86
Mean 1803
Std Dev 0
pull1D
Entries 86
Mean −0.006309
Std Dev 1.224

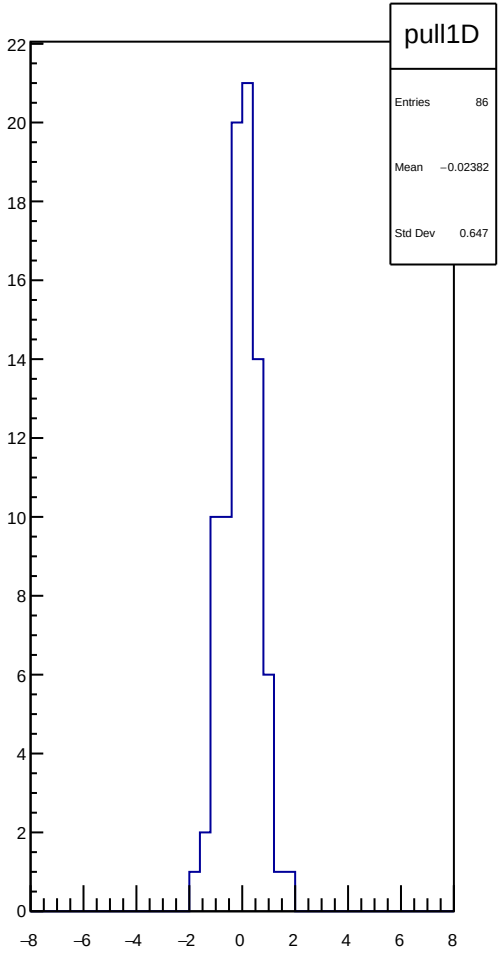

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.51 / 85
p0 5.472 ± 1.229
pull
Entries 86
Mean 137.7
Std Dev 0

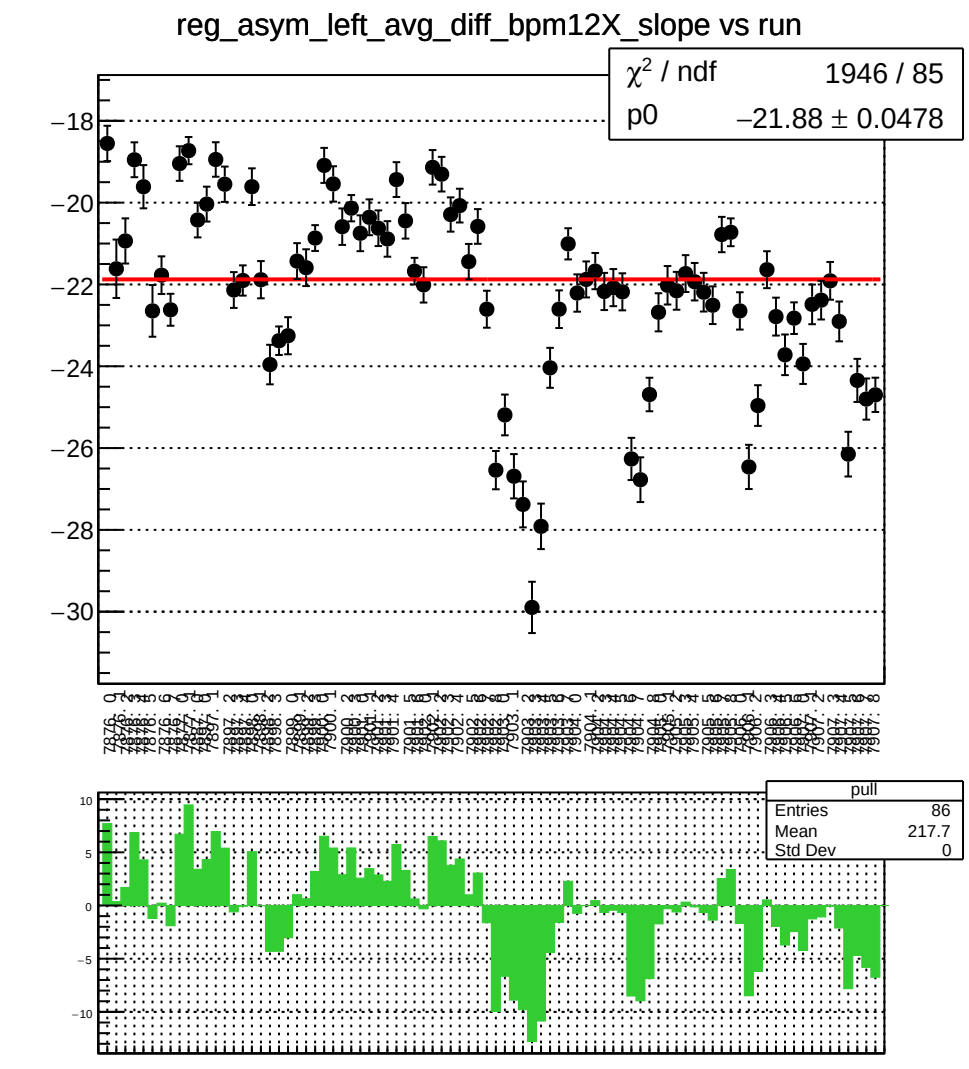

pull1D
Entries 86
Mean 0.08947
Std Dev 0.7612

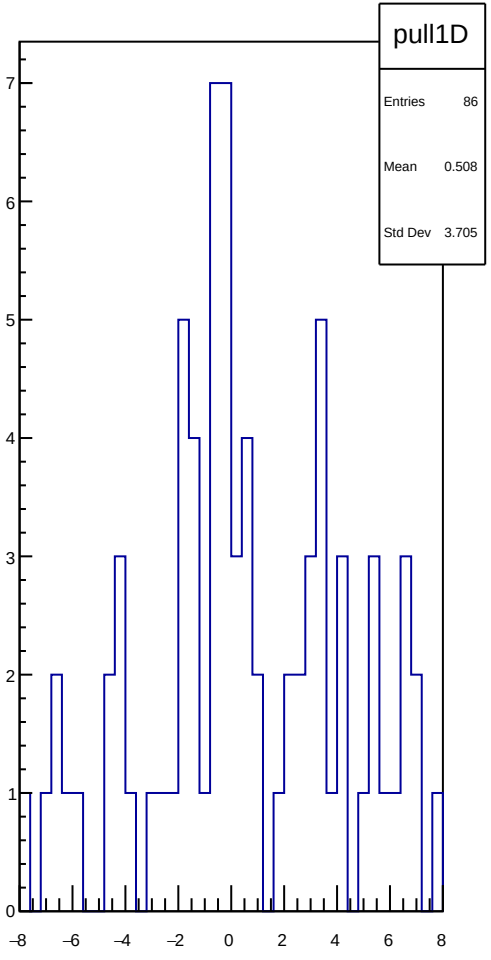

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 136.7 / 85
p0 −0.7031± 0.9667
pull
Entries 86
Mean −151
Std Dev 0

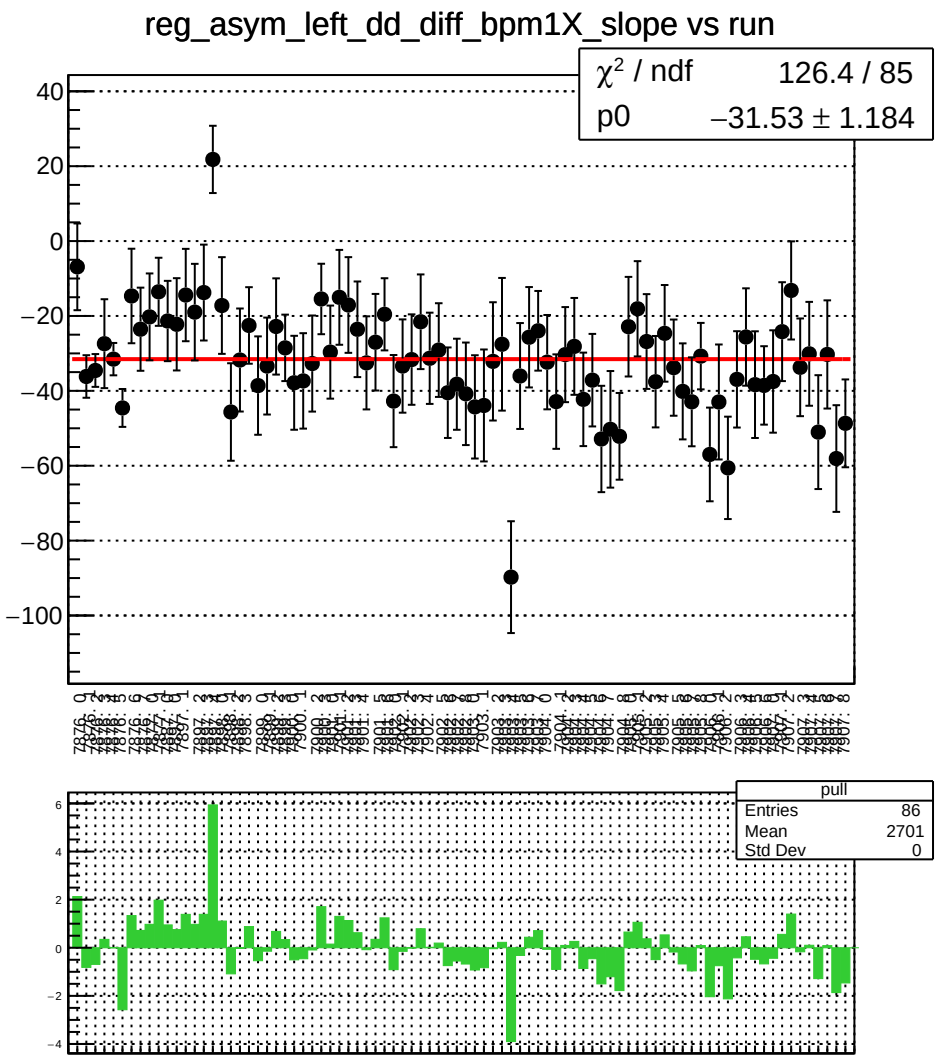

pull1D
Entries 86
Mean −0.05278
Std Dev 1.26

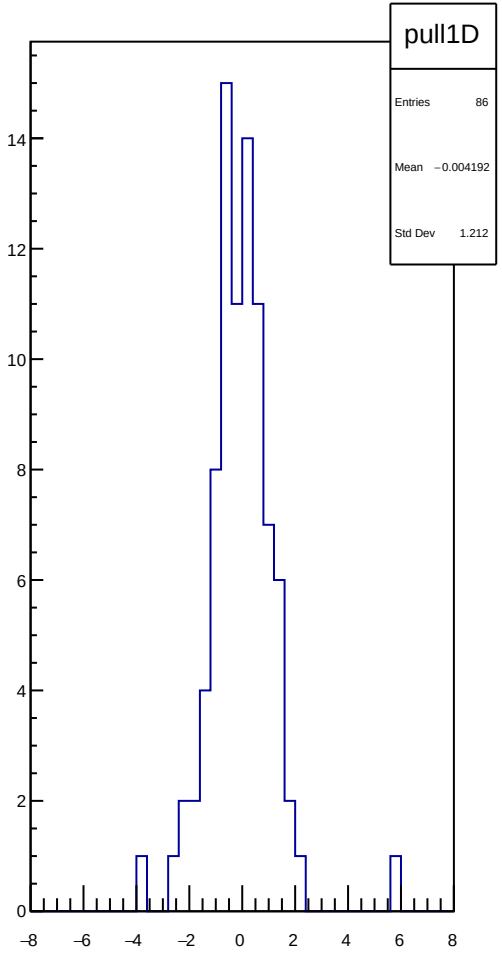

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.05 / 85
p0 9.659 ± 1.48
pull
Entries 86
Mean 148.6
Std Dev 0

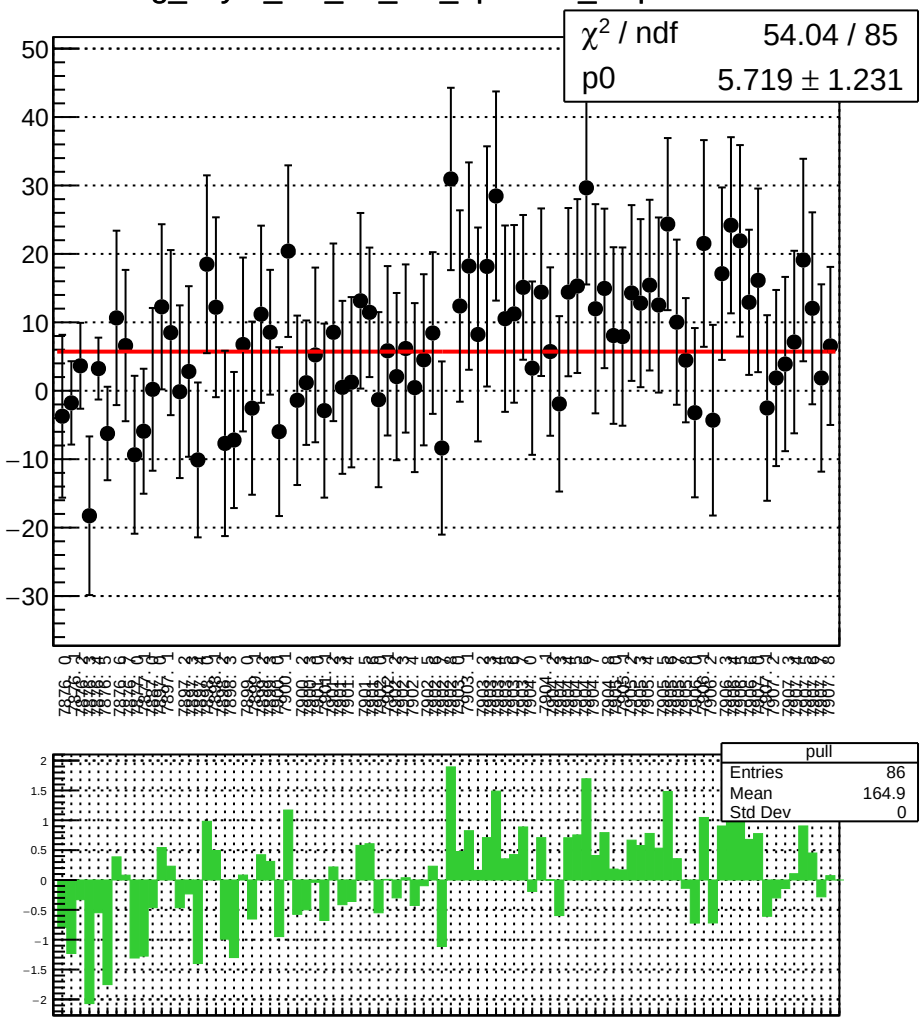

pull1D
Entries 86
Mean −0.02382
Std Dev 0.647

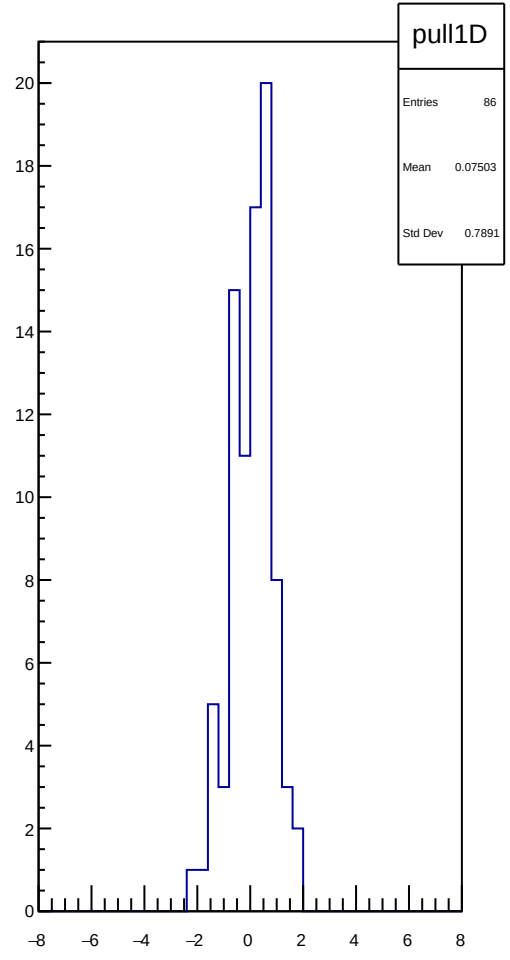

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 1946 / 85
p0 −21.88 ± 0.0478
−18
−20
−22
−24
−26
−28
−30
pull
Entries 86
Mean 217.7
Std Dev 0
10
5
0
−5
−10

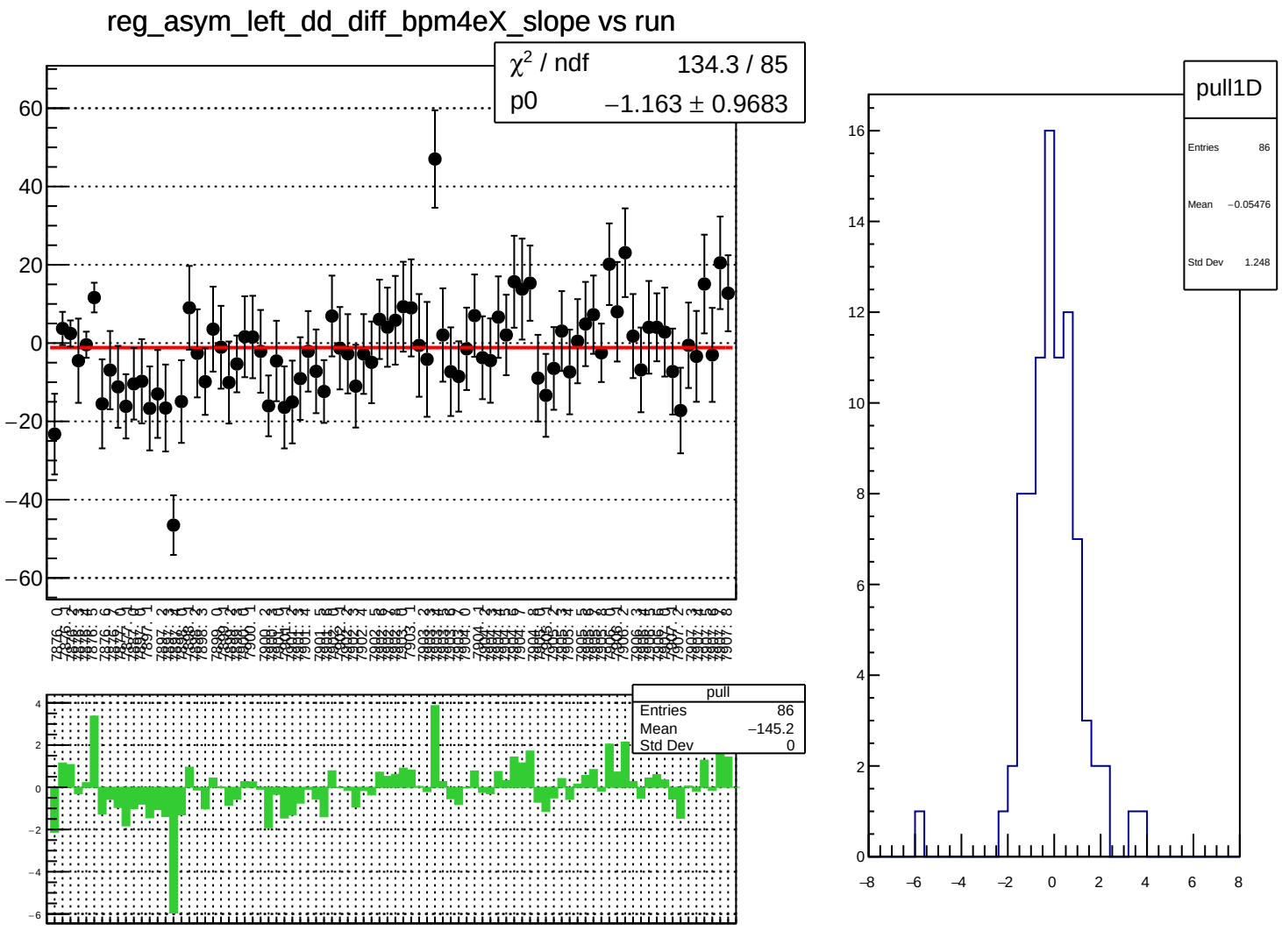

pull1D
Entries 86
Mean 0.508
Std Dev 3.705
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

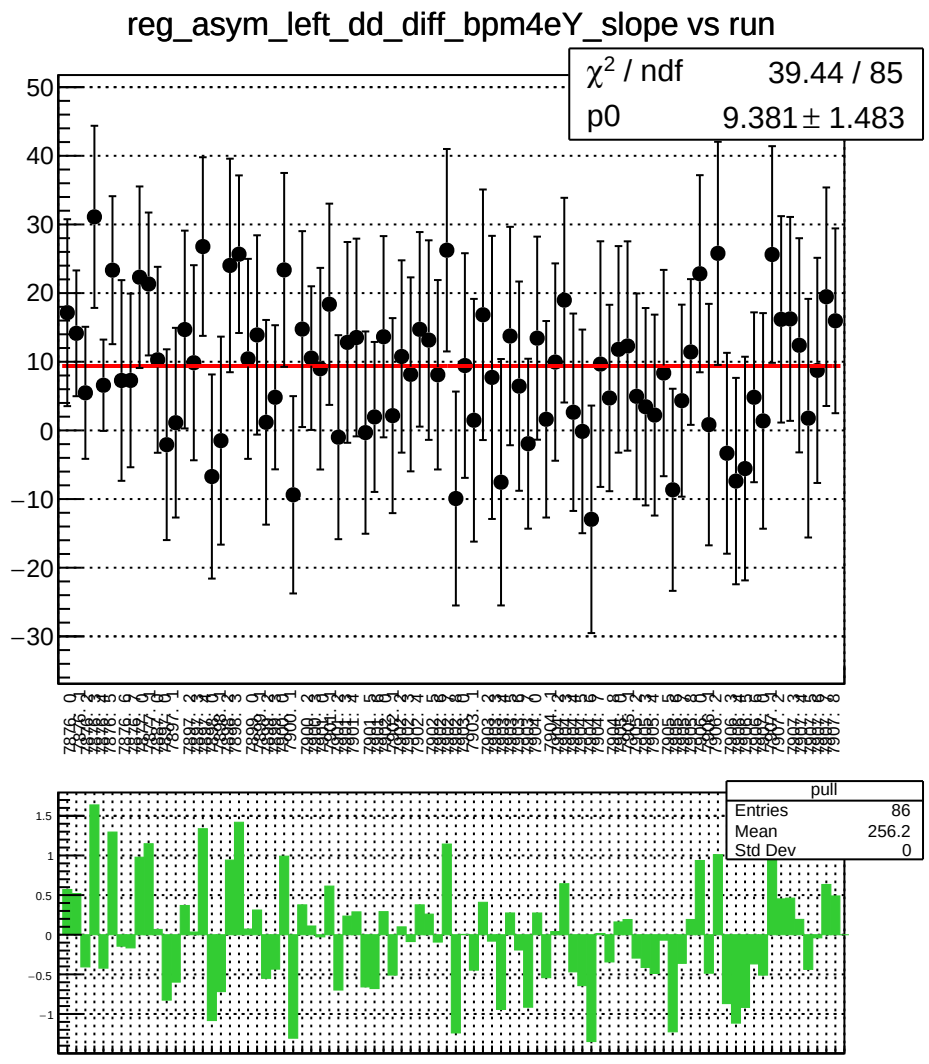

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 126.4 / 85
p0 −31.53 ± 1.184
pull
Entries 86
Mean 2701
Std Dev 0

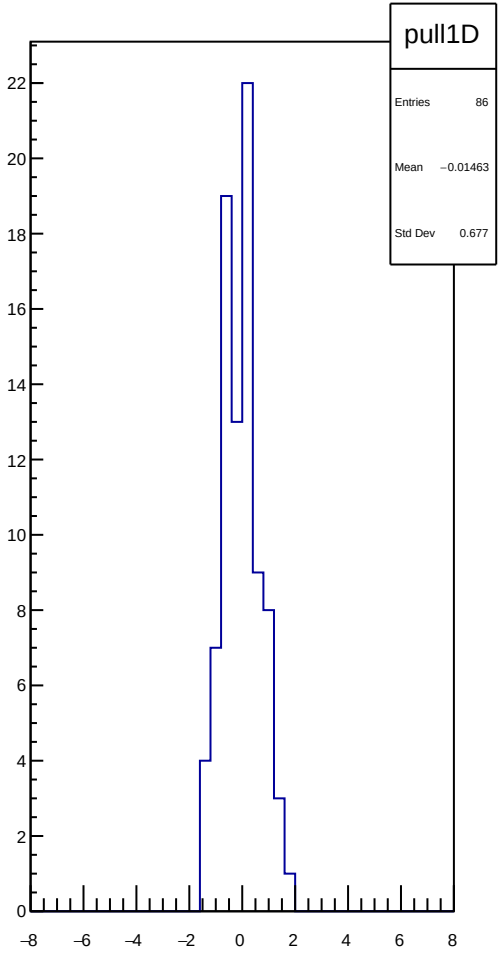

pull1D
Entries 86
Mean −0.004192
Std Dev 1.212

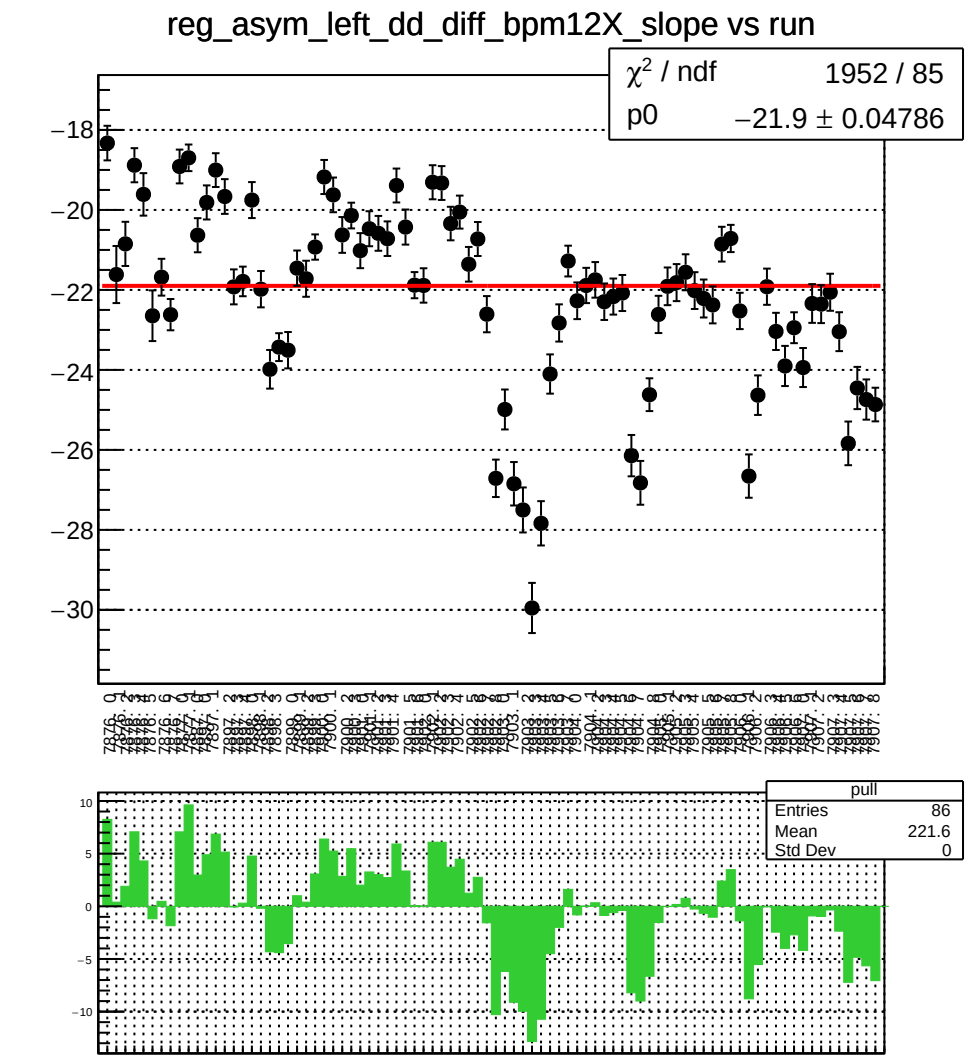

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.04 / 85
p0 5.719 ± 1.231
pull
Entries 86
Mean 164.9
Std Dev 0

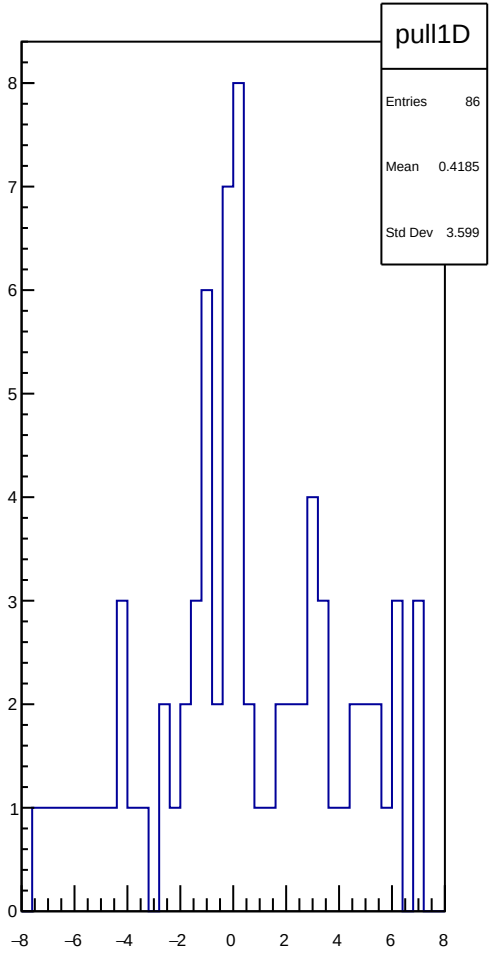

pull1D
Entries 86
Mean 0.07503
Std Dev 0.7891

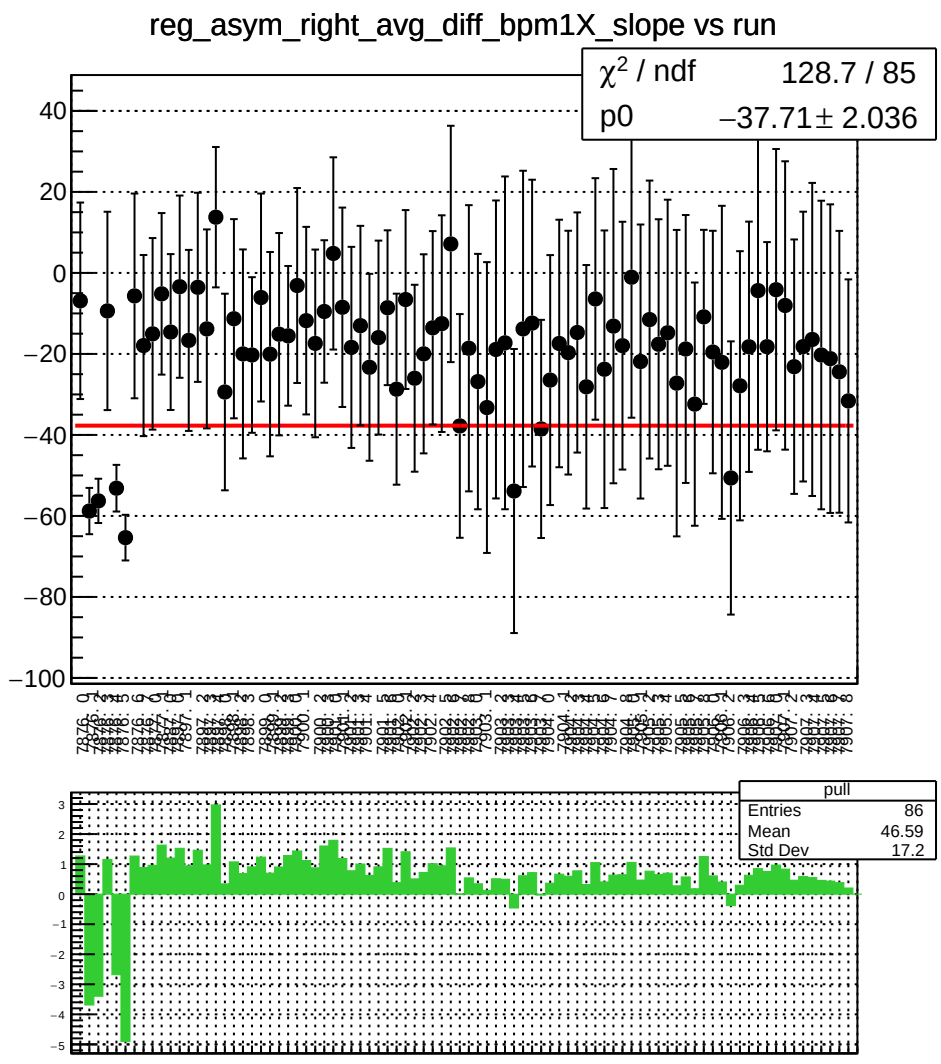

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 134.3 / 85
p0 −1.163 ± 0.9683
pull
Entries 86
Mean −145.2
Std Dev 0
pull1D
Entries 86
Mean −0.05476
Std Dev 1.248

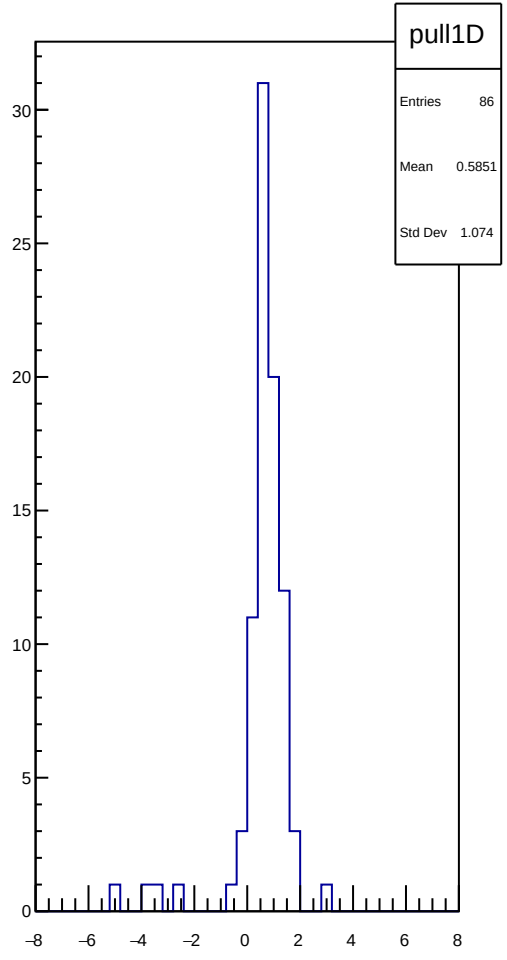

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.44 / 85
p0 9.381 ± 1.483
pull
Entries 86
Mean 256.2
Std Dev 0

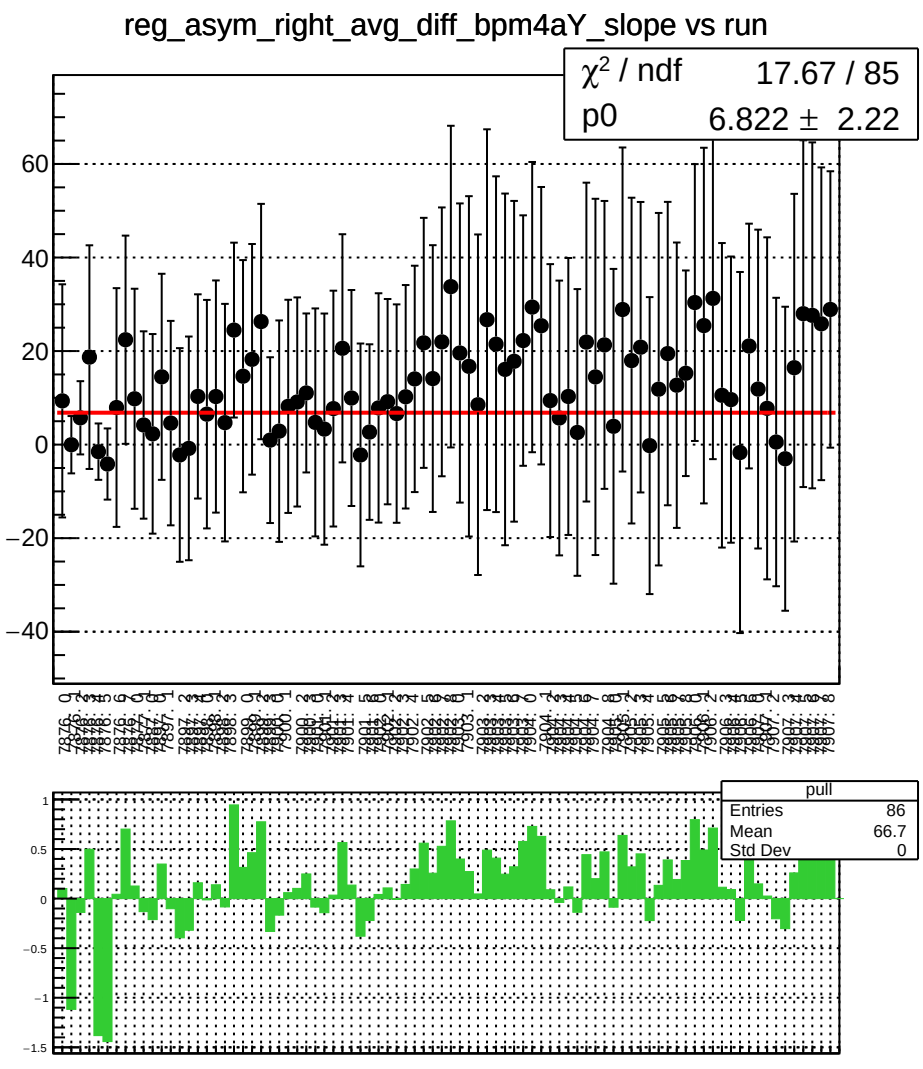

pull1D
Entries 86
Mean −0.01463
Std Dev 0.677

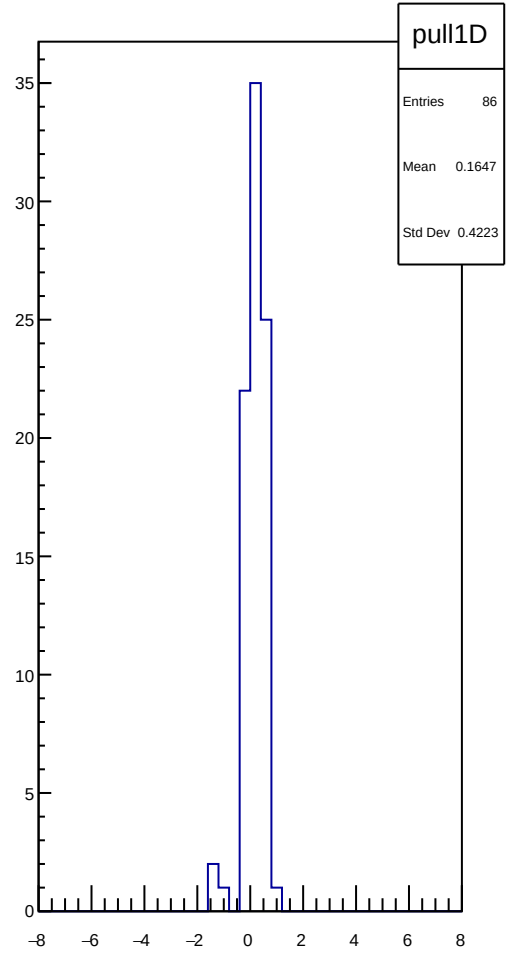

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 1952 / 85
p0 −21.9 ± 0.04786
pull
Entries 86
Mean 221.6
Std Dev 0

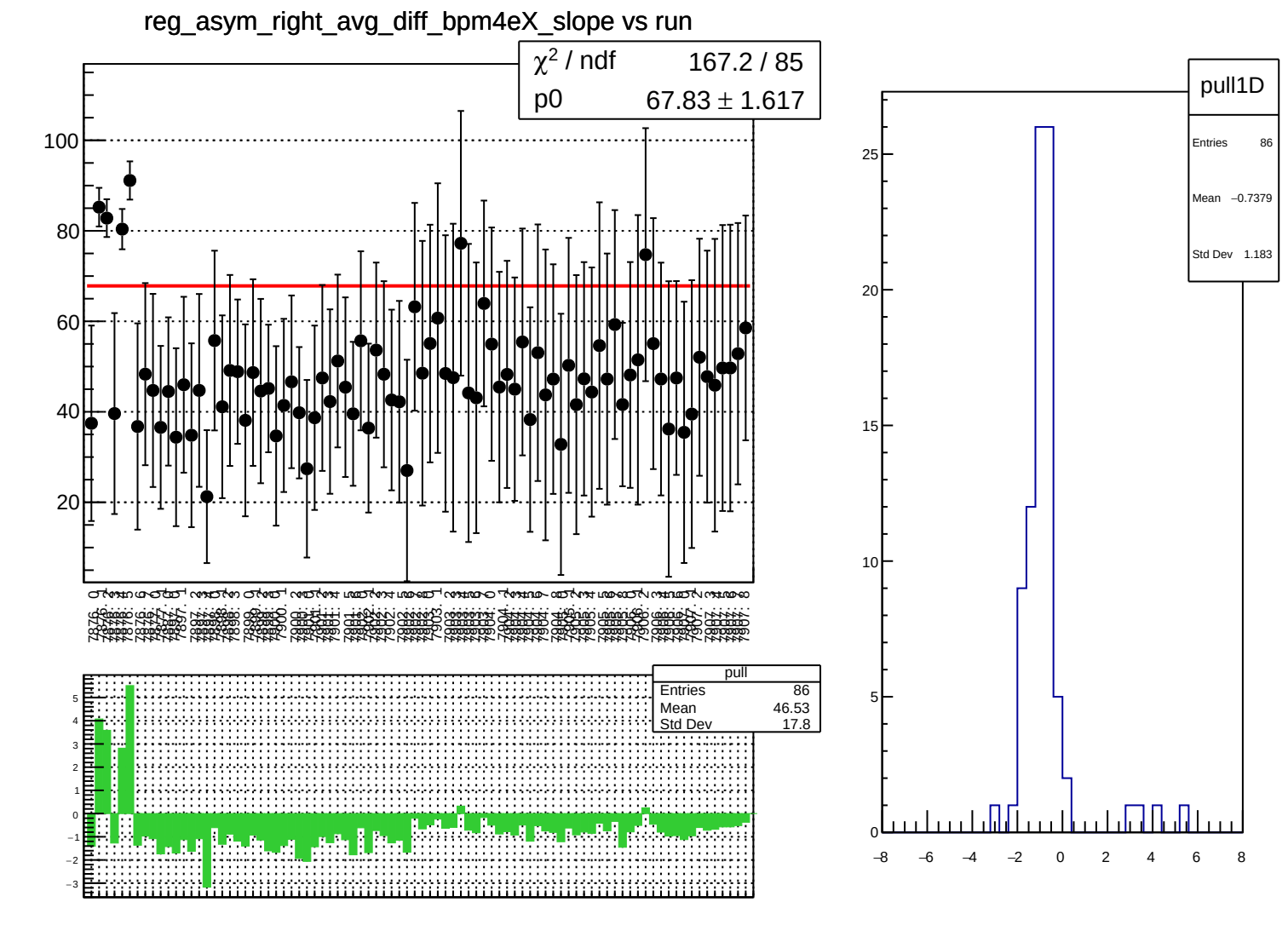

pull1D
Entries 86
Mean 0.4185
Std Dev 3.599

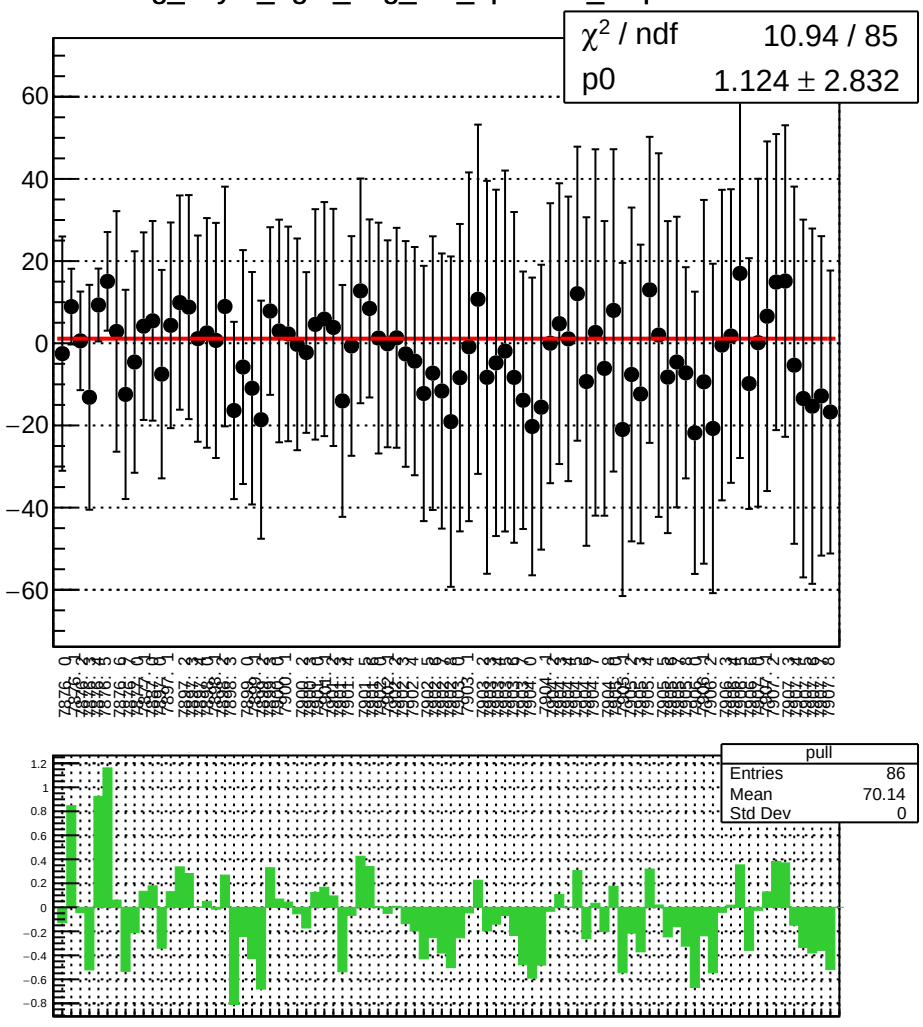

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 128.7 / 85
p0 −37.71 ± 2.036
pull
Entries 86
Mean 46.59
Std Dev 17.2

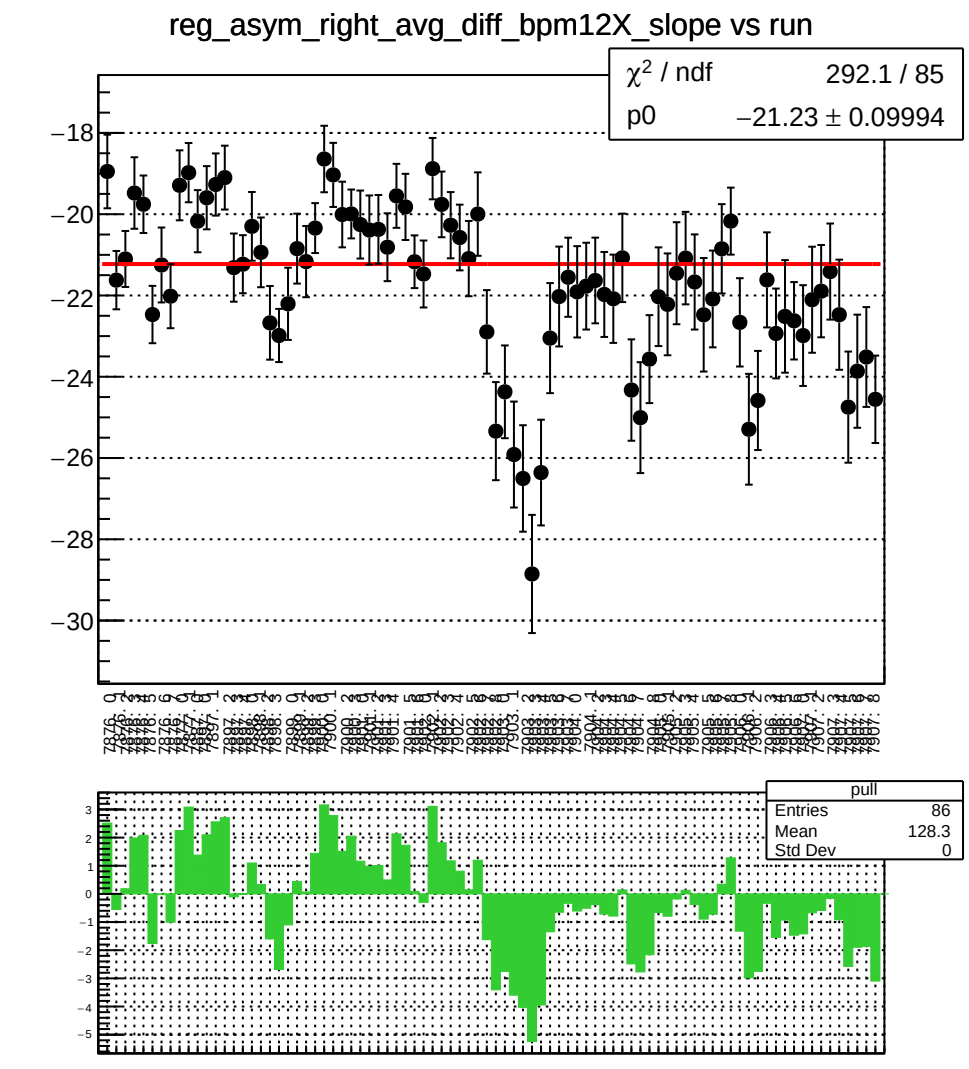

pull1D
Entries 86
Mean 0.5851
Std Dev 1.074

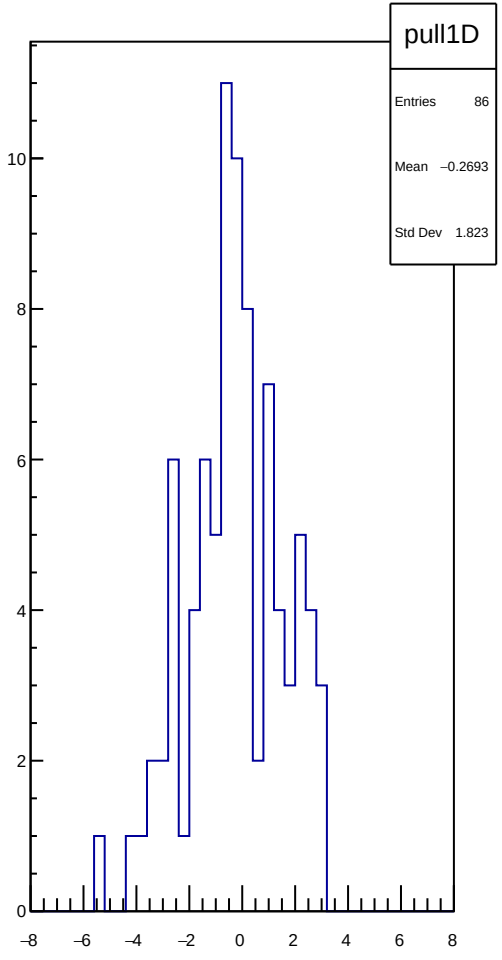

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.67 / 85
p0 6.822 ± 2.22
pull
Entries 86
Mean 66.7
Std Dev 0

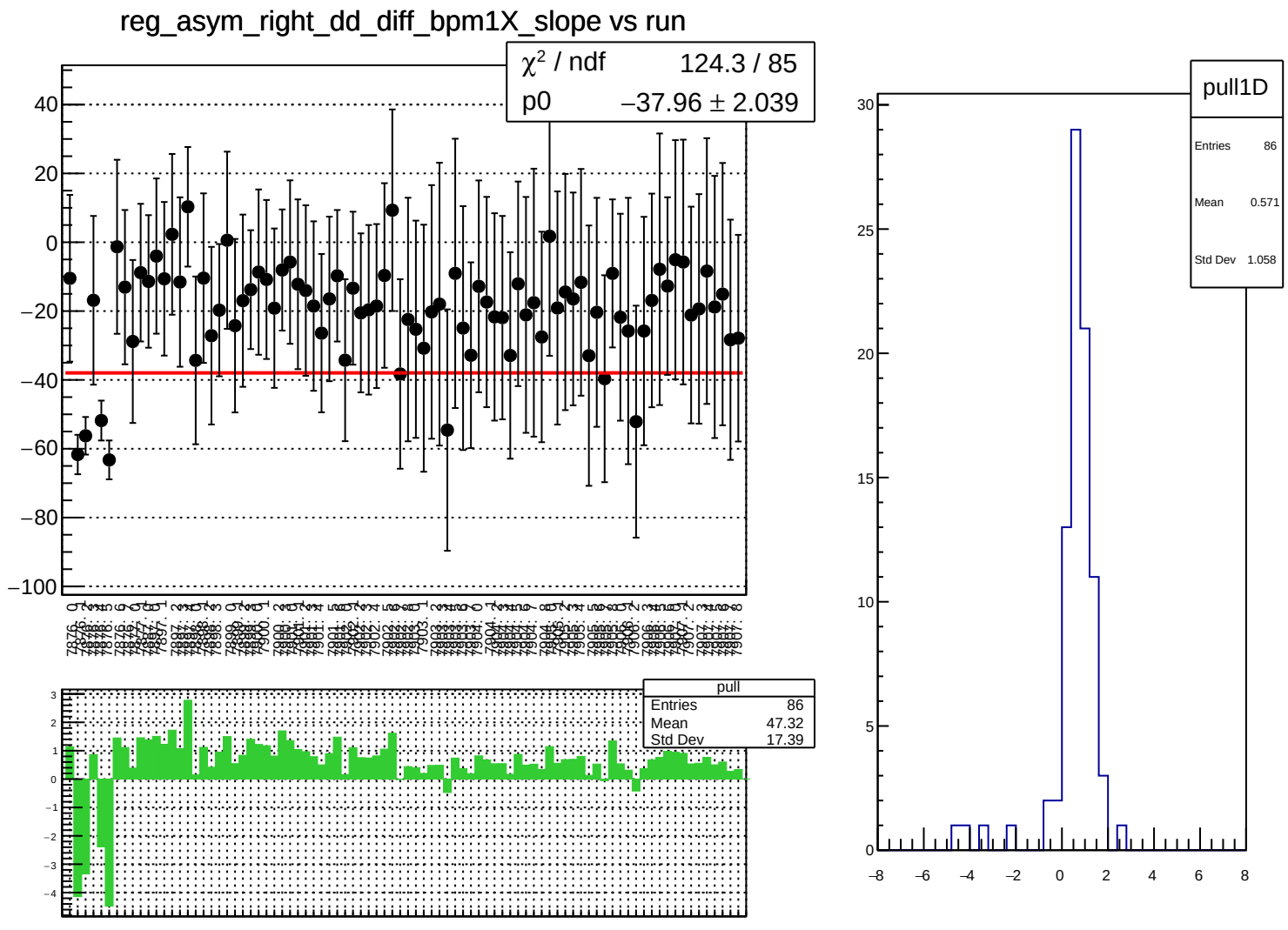

pull1D
Entries 86
Mean 0.1647
Std Dev 0.4223

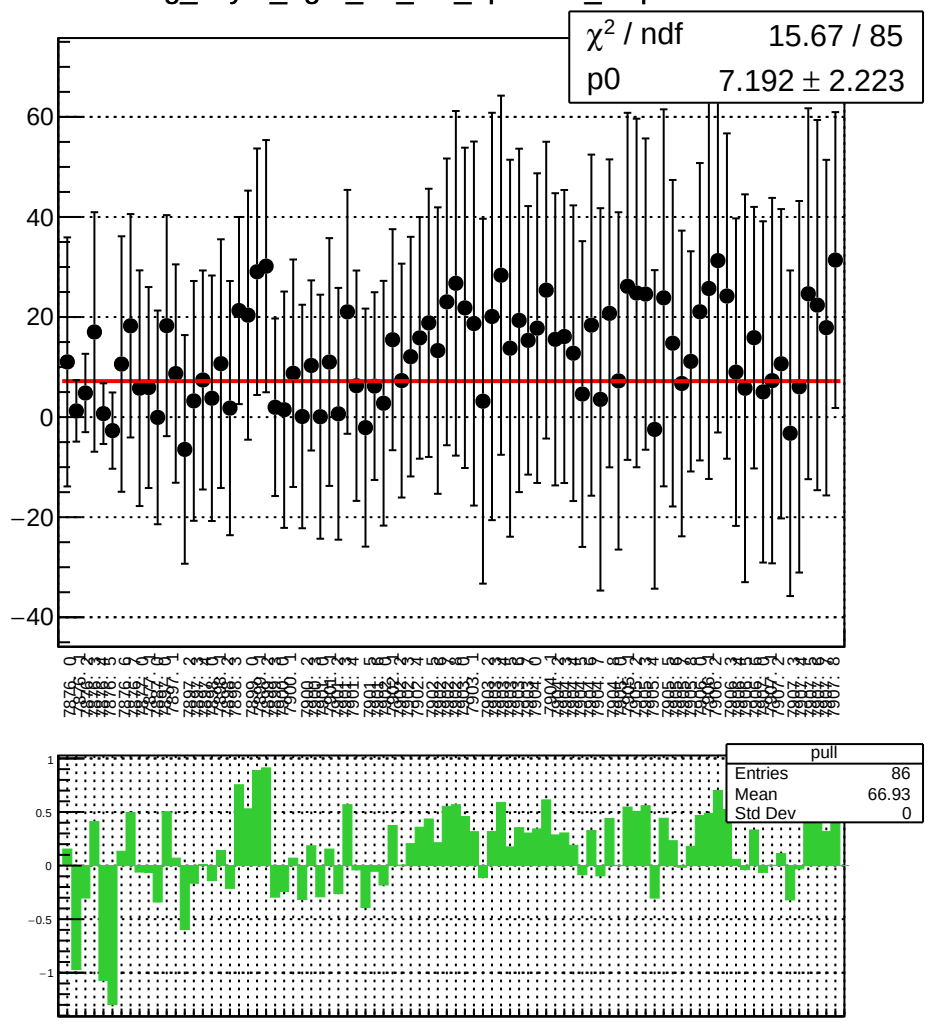

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 167.2 / 85
p0 67.83 ± 1.617
pull
Entries 86
Mean 46.53
Std Dev 17.8
pull1D
Entries 86
Mean −0.7379
Std Dev 1.183

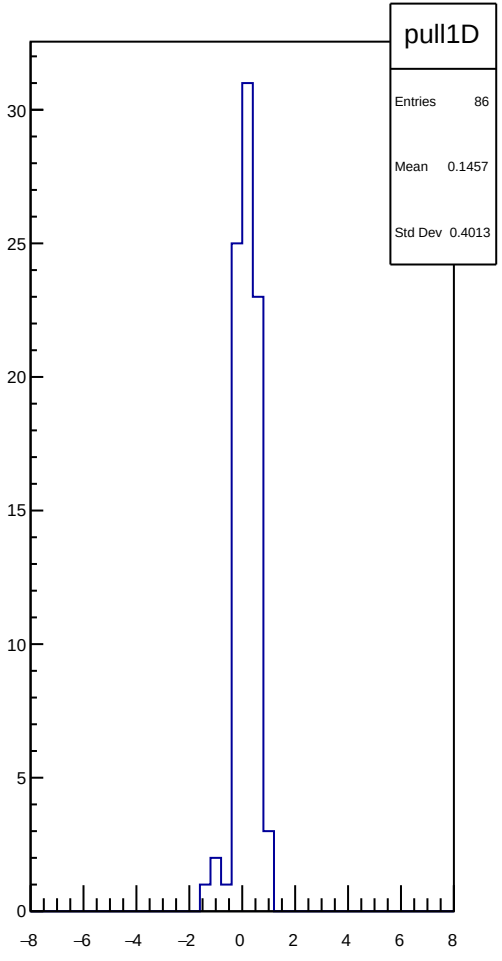

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.94 / 85
p0 1.124 ± 2.832
pull
Entries 86
Mean 70.14
Std Dev 0
pull1D
Entries 86
Mean −0.0788
Std Dev 0.3478

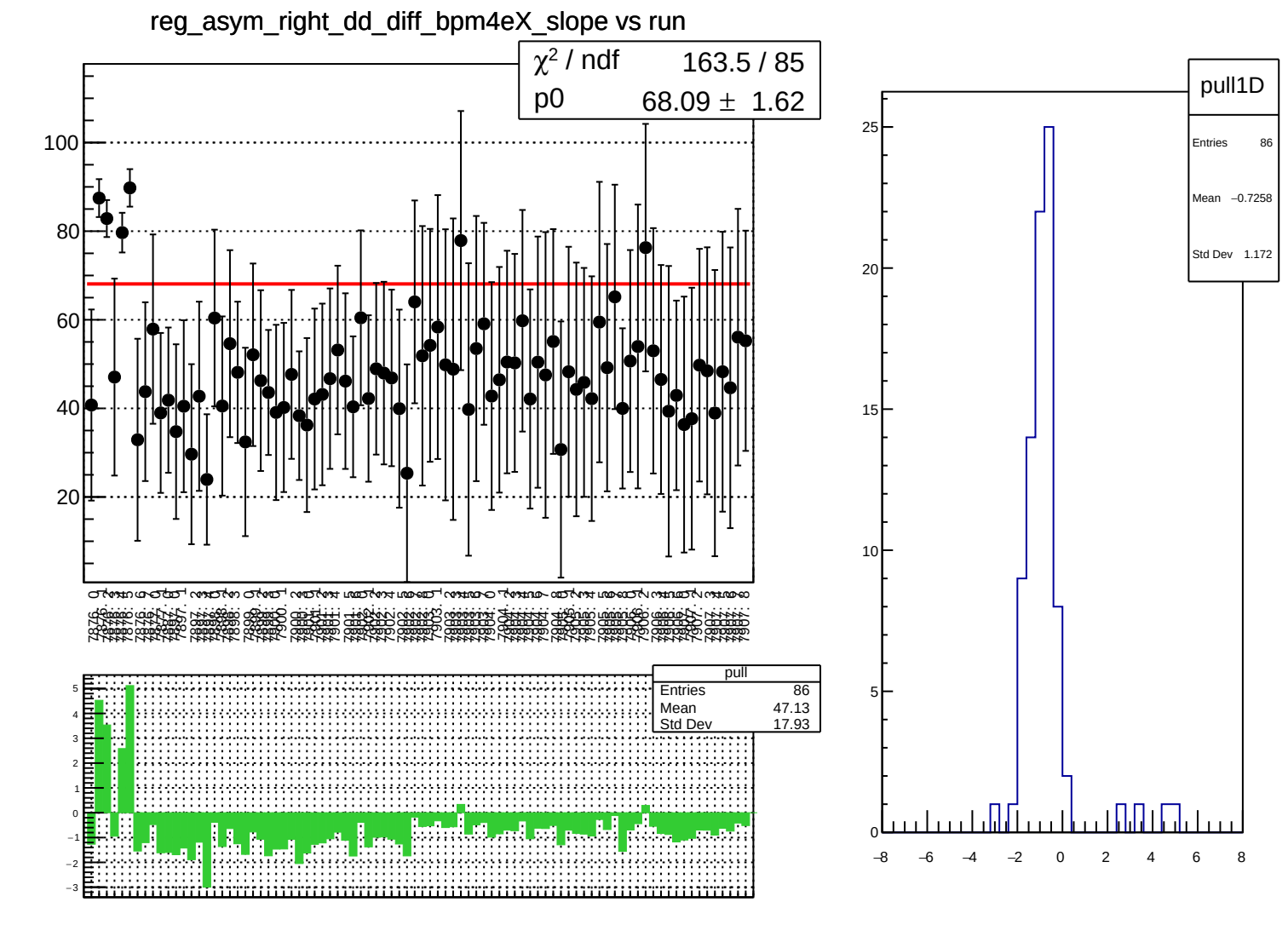

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 292.1 / 85
p0 −21.23 ± 0.09994
pull
Entries 86
Mean 128.3
Std Dev 0

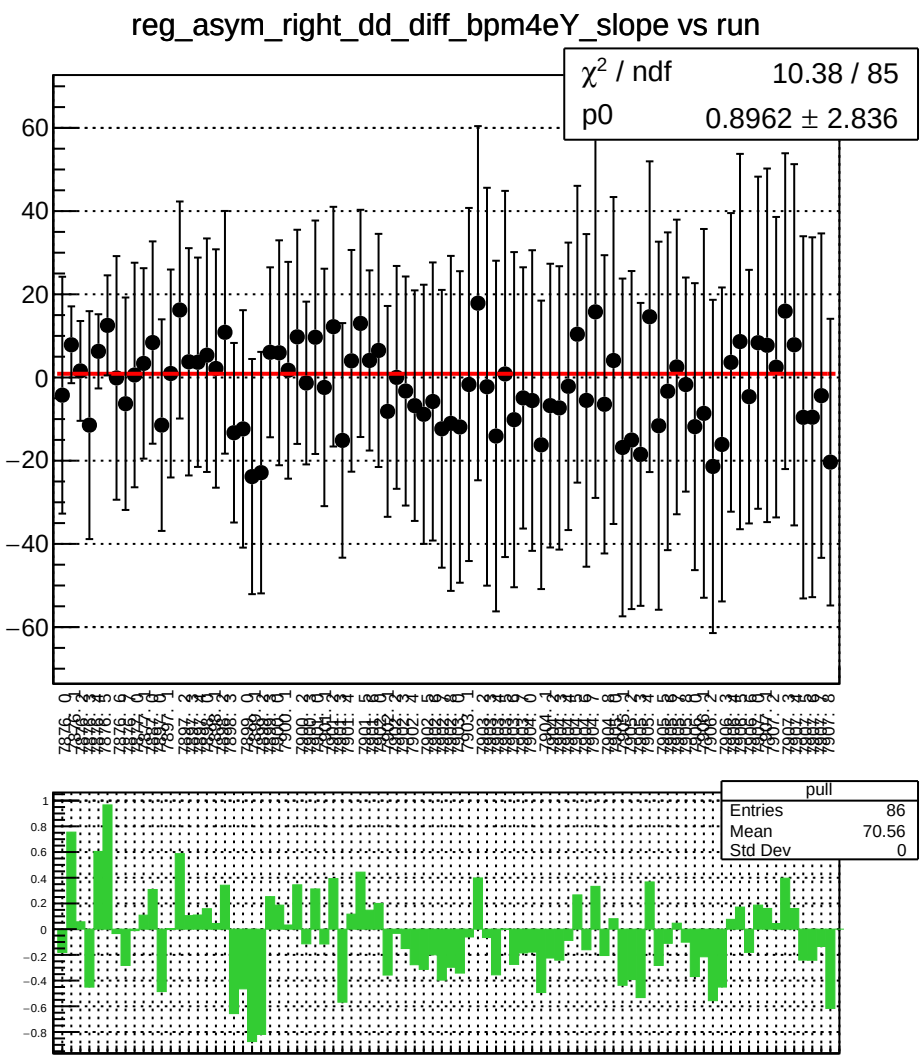

pull1D
Entries 86
Mean −0.2693
Std Dev 1.823

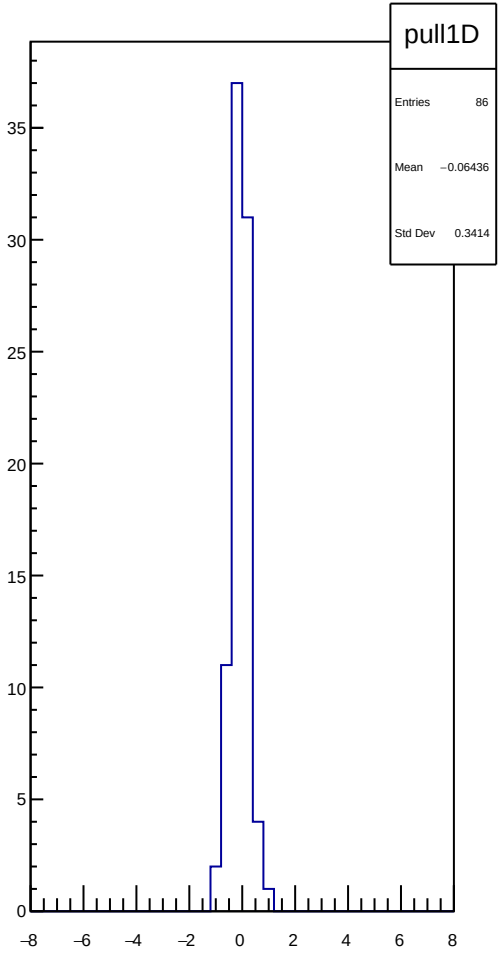

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 124.3 / 85
p0 −37.96 ± 2.039
pull
Entries 86
Mean 47.32
Std Dev 17.39
pull1D
Entries 86
Mean 0.571
Std Dev 1.058

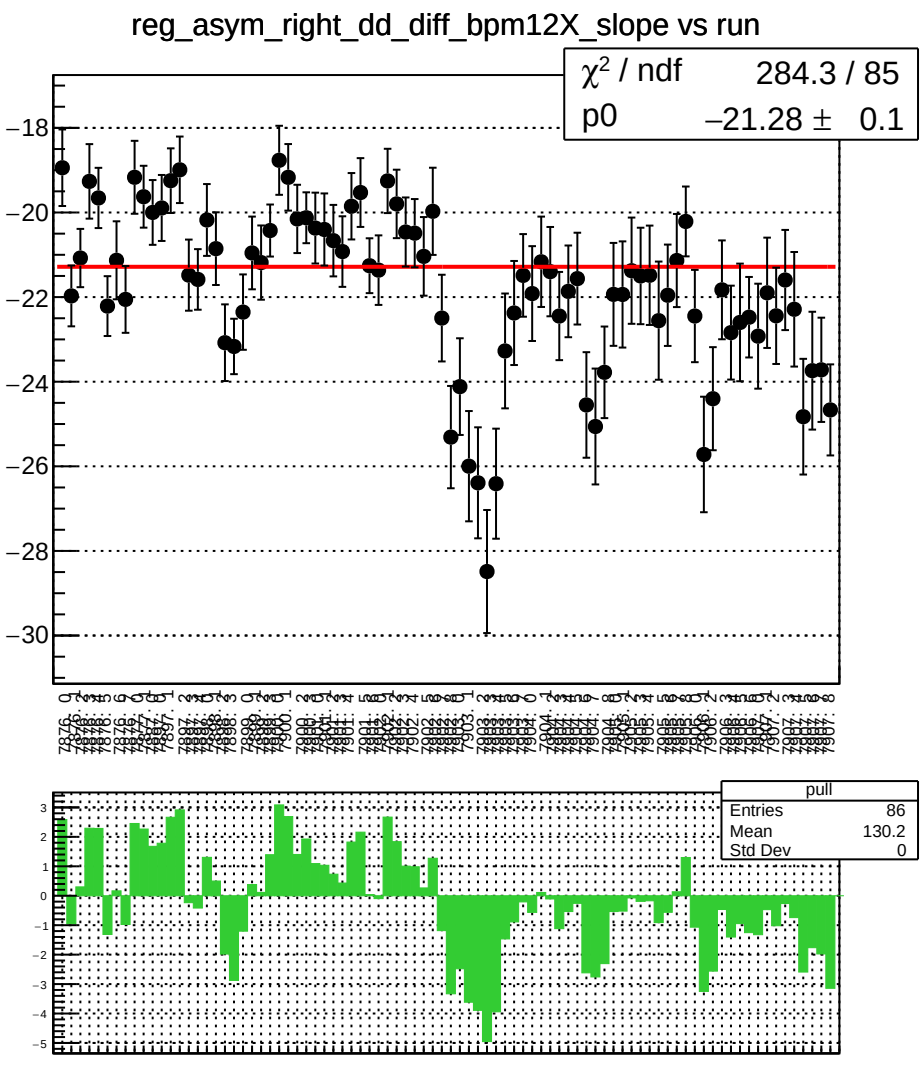

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.67 / 85
p0 7.192 ± 2.223
pull
Entries 86
Mean 66.93
Std Dev 0

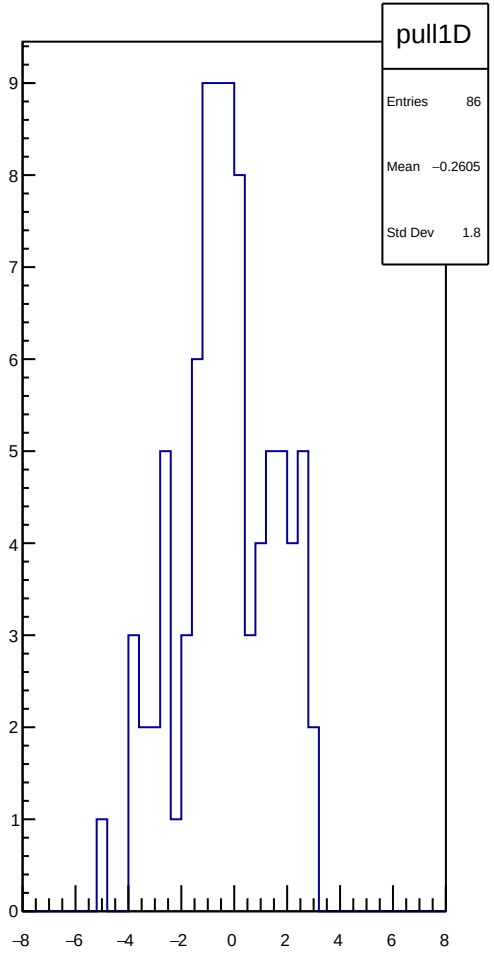

pull1D
Entries 86
Mean 0.1457
Std Dev 0.4013

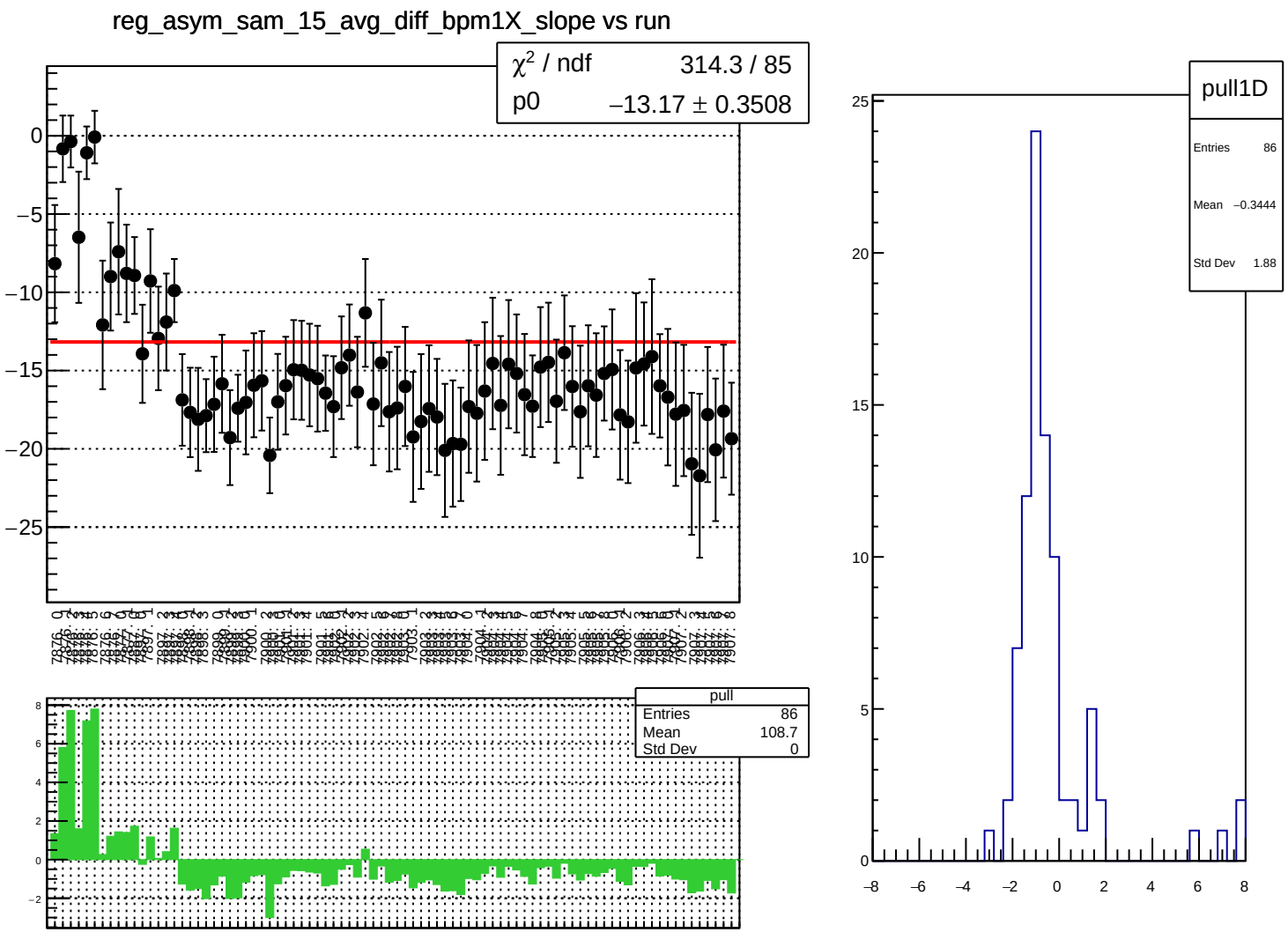

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 163.5 / 85
p0 68.09 ± 1.62
pull
Entries 86
Mean 47.13
Std Dev 17.93
pull1D
Entries 86
Mean −0.7258
Std Dev 1.172

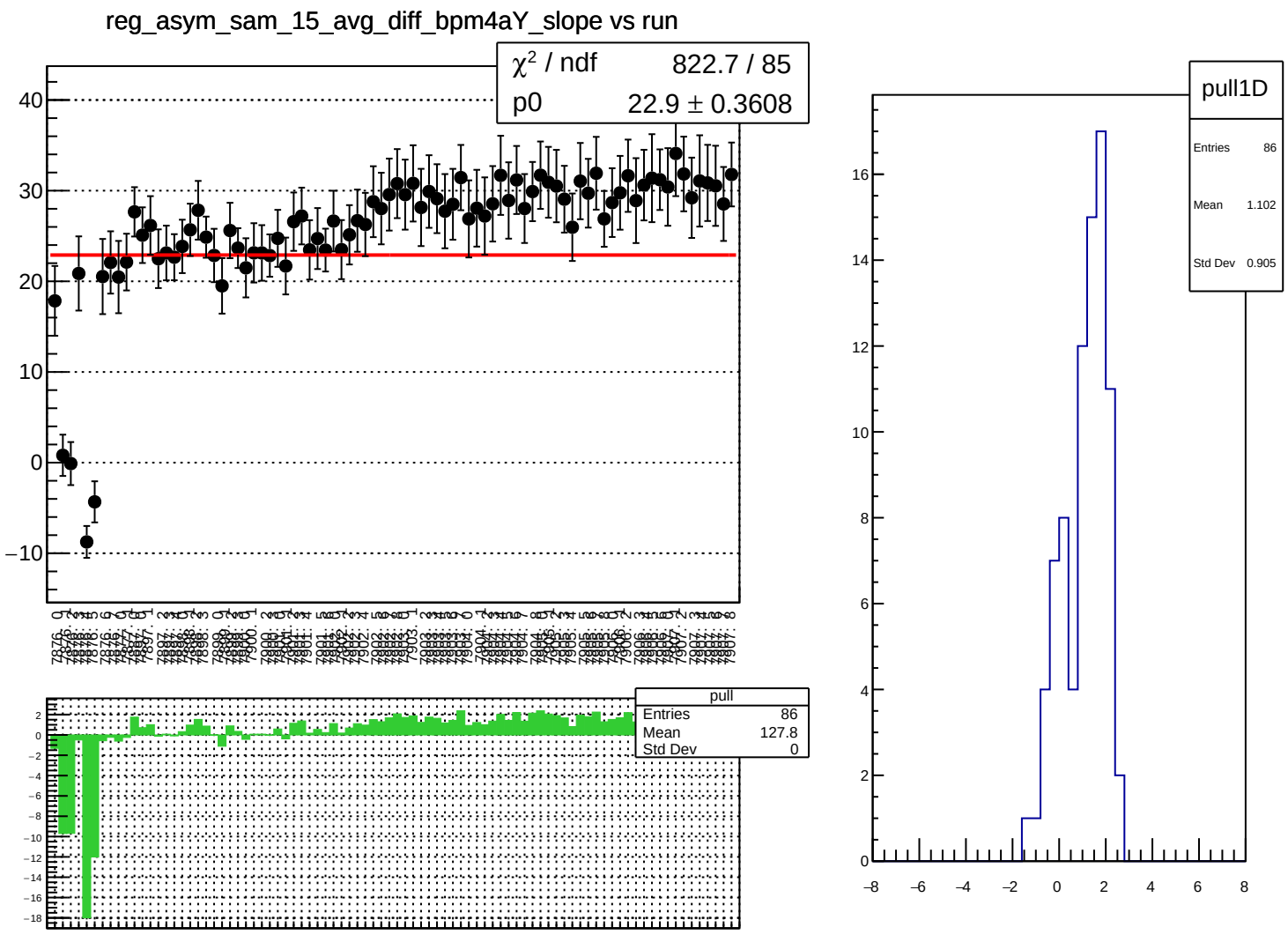

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.38 / 85
p0 0.8962 ± 2.836
pull
Entries 86
Mean 70.56
Std Dev 0

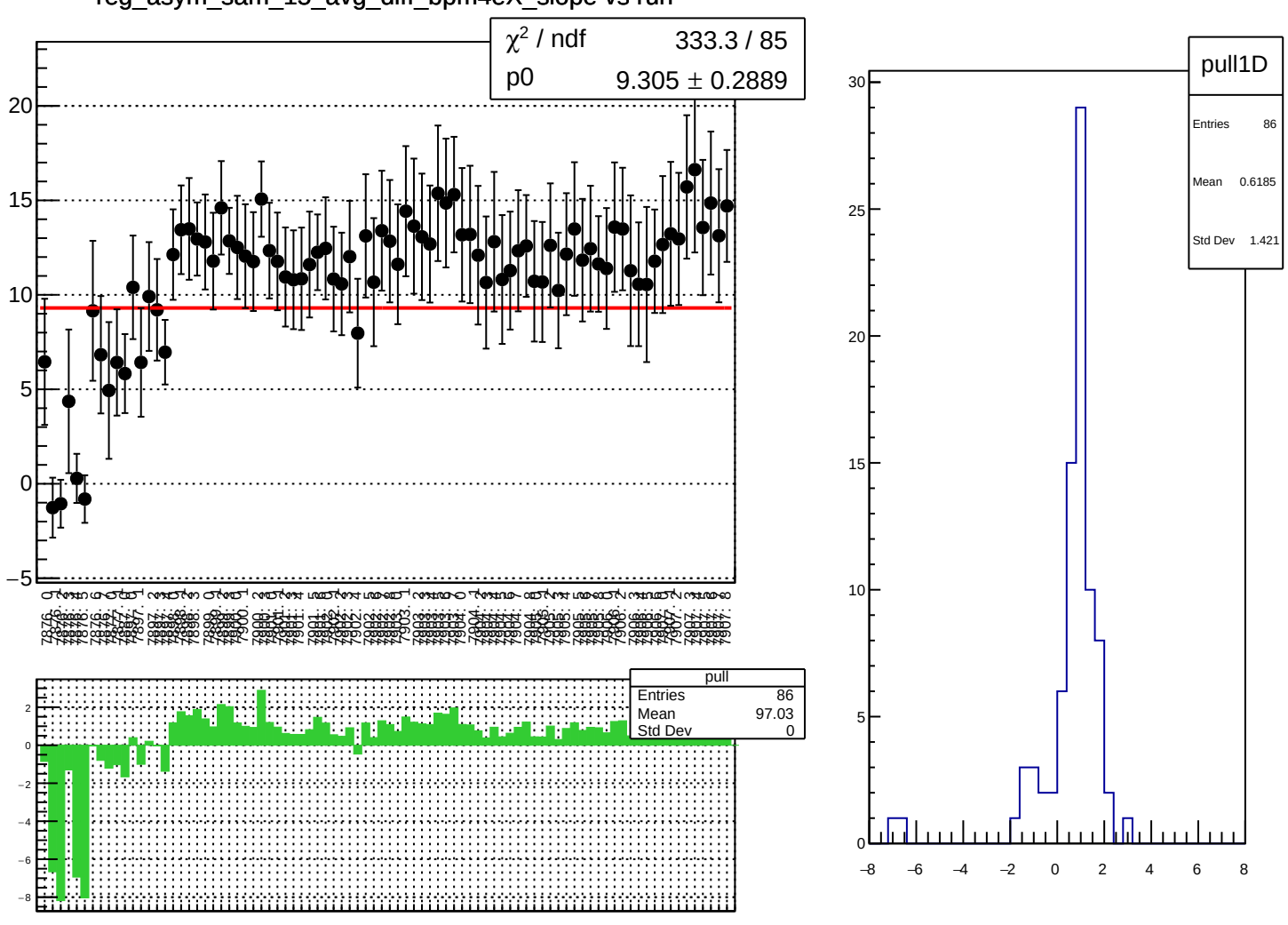

pull1D
Entries 86
Mean −0.06436
Std Dev 0.3414

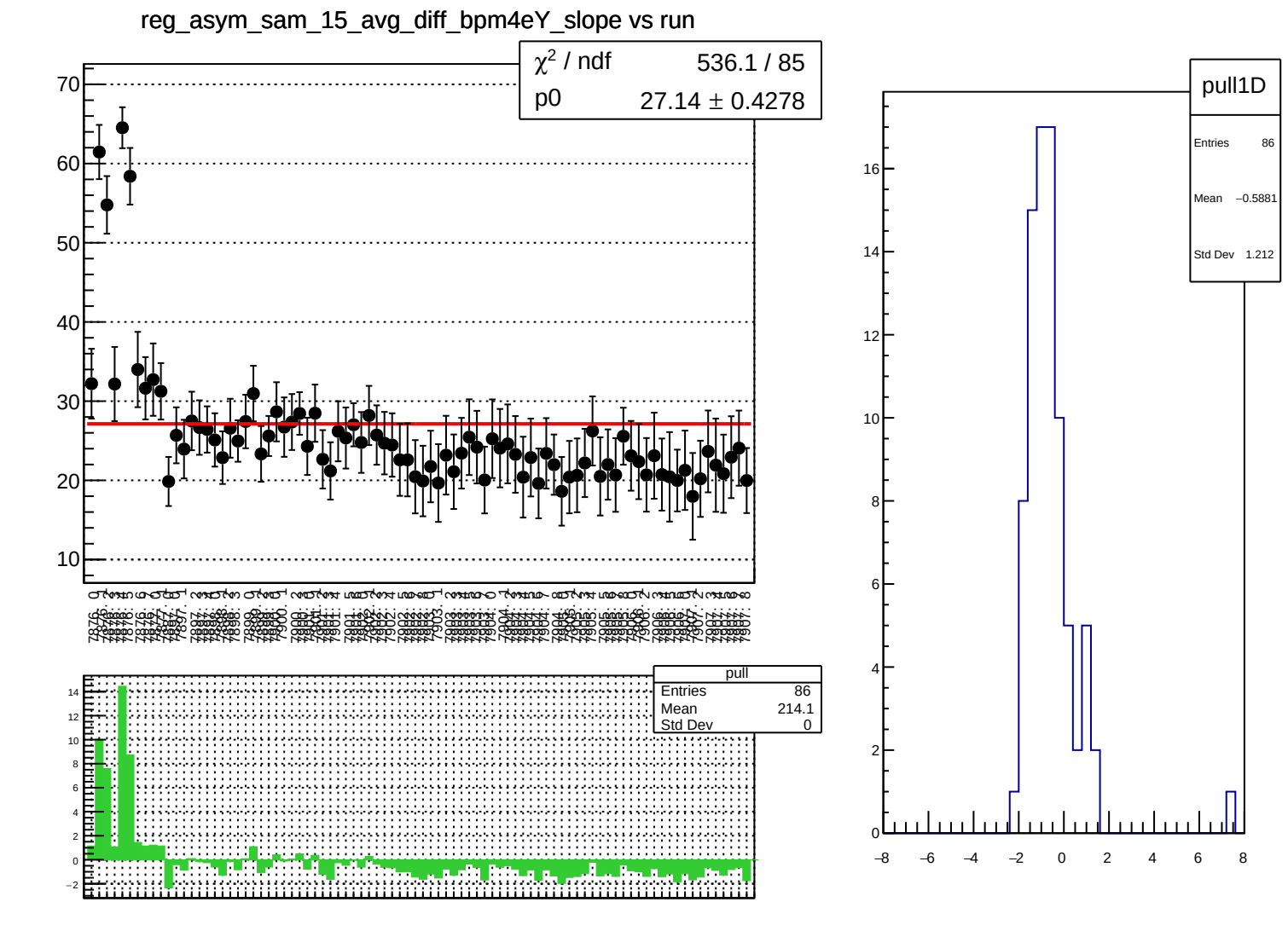

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 284.3 / 85
p0 −21.28 ± 0.1
pull
Entries 86
Mean 130.2
Std Dev 0

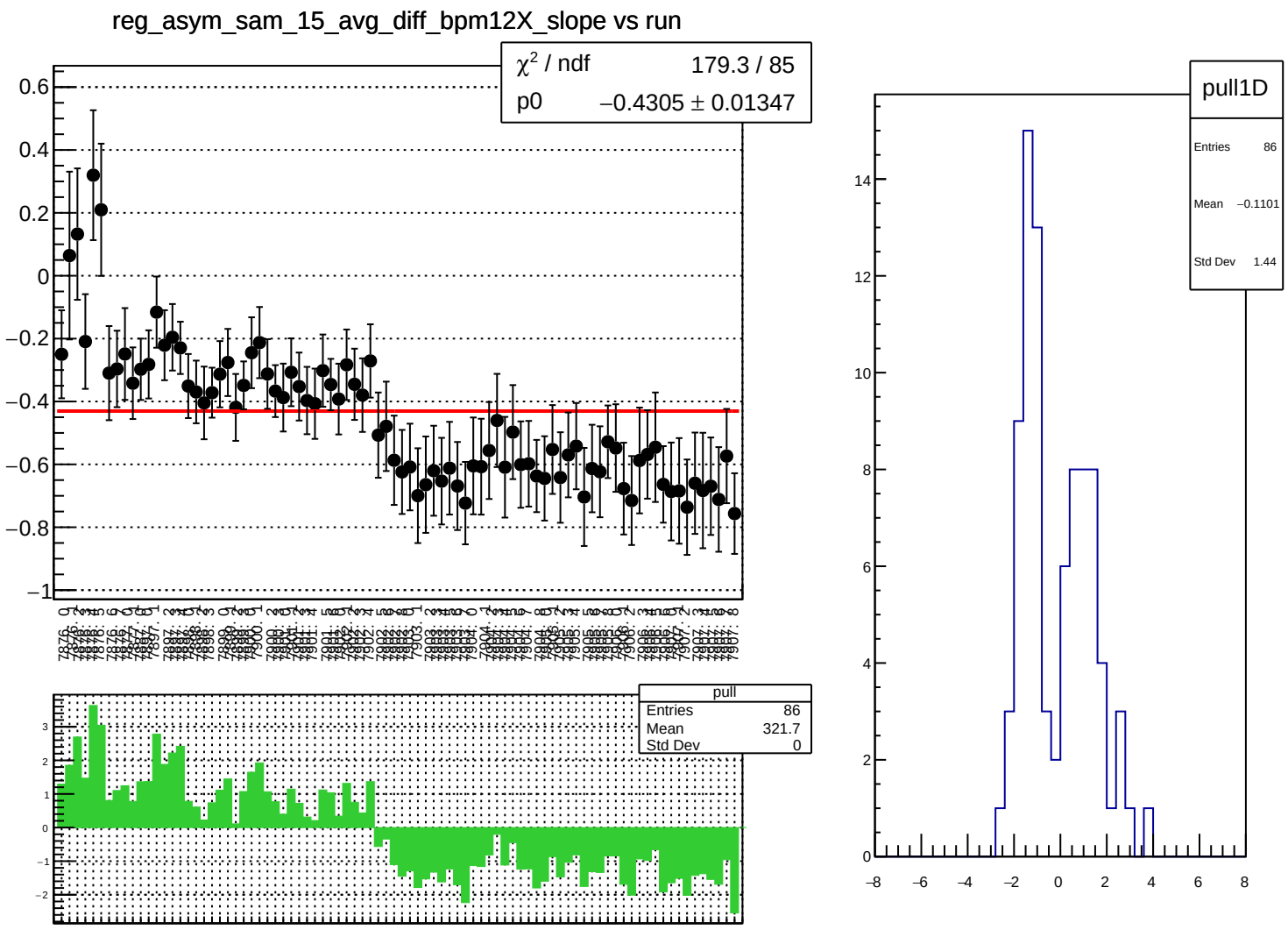

pull1D
Entries 86
Mean −0.2605
Std Dev 1.8

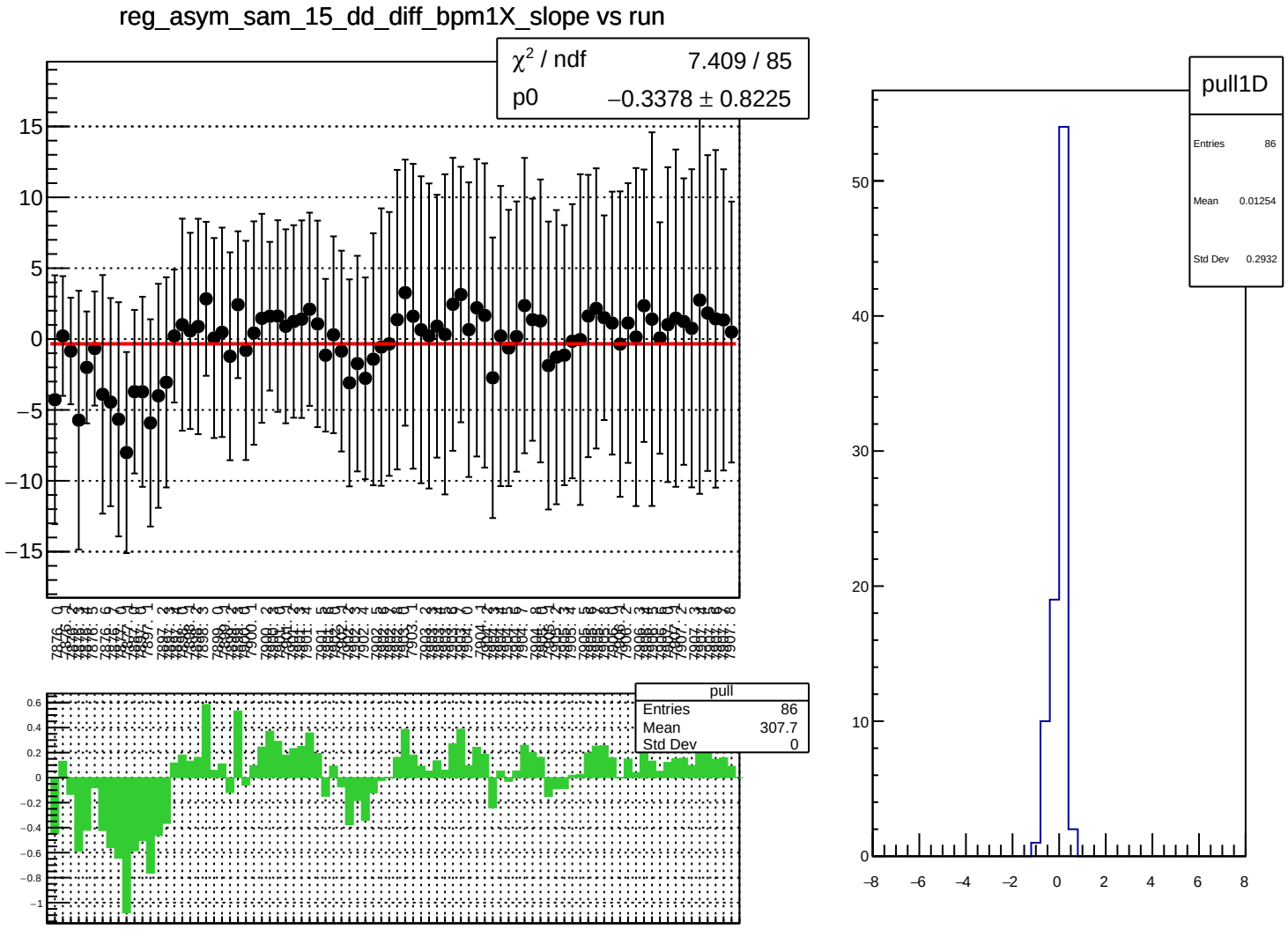

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 314.3 / 85
p0 −13.17 ± 0.3508
pull
Entries 86
Mean 108.7
Std Dev 0
pull1D
Entries 86
Mean −0.3444
Std Dev 1.88

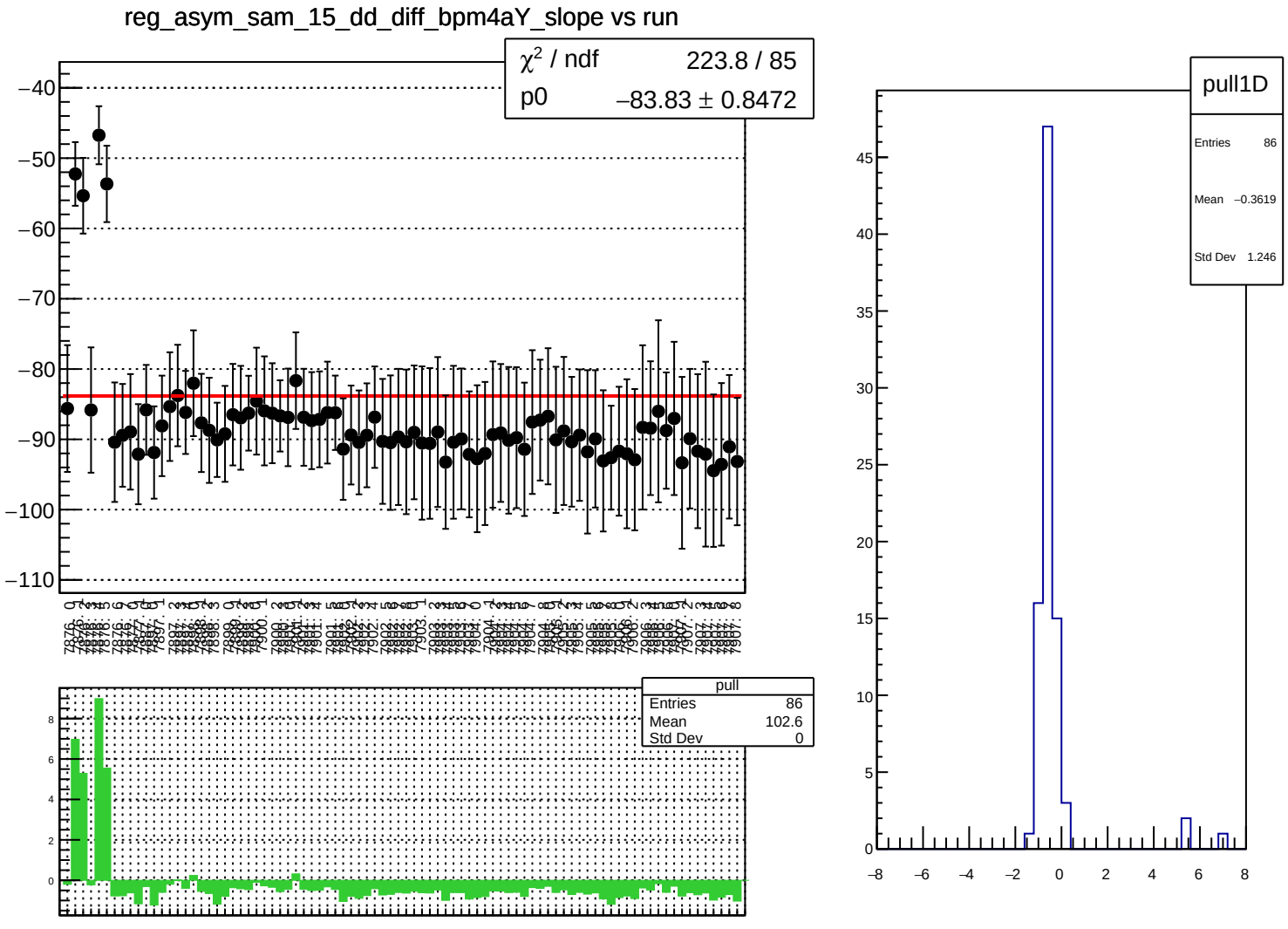

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 822.7 / 85
p0 22.9 ± 0.3608
pull
Entries 86
Mean 127.8
Std Dev 0
pull1D
Entries 86
Mean 1.102
Std Dev 0.905

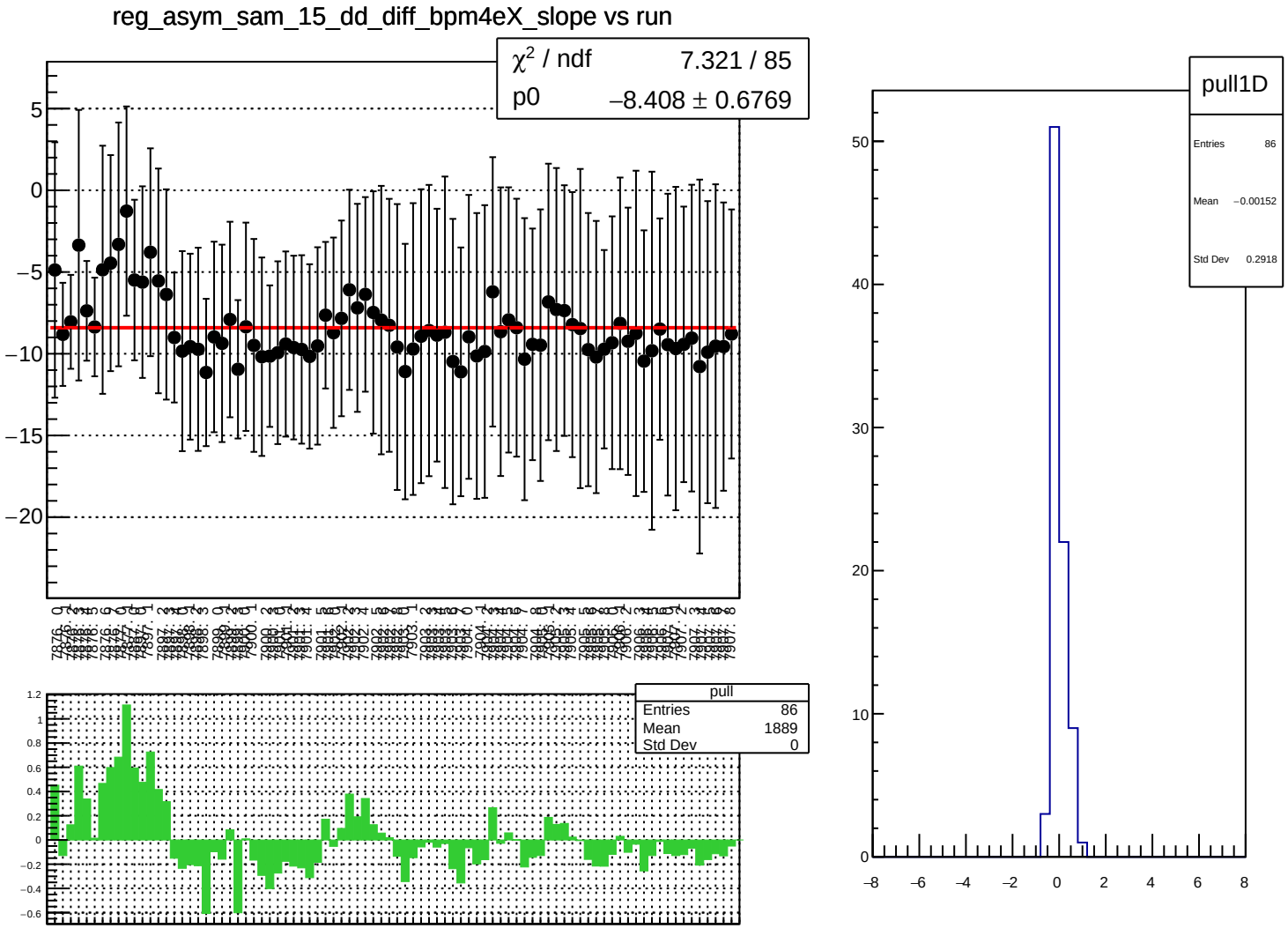

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 333.3 / 85
p0 9.305 ± 0.2889
pull
Entries 86
Mean 97.03
Std Dev 0
pull1D
Entries 86
Mean 0.6185
Std Dev 1.421

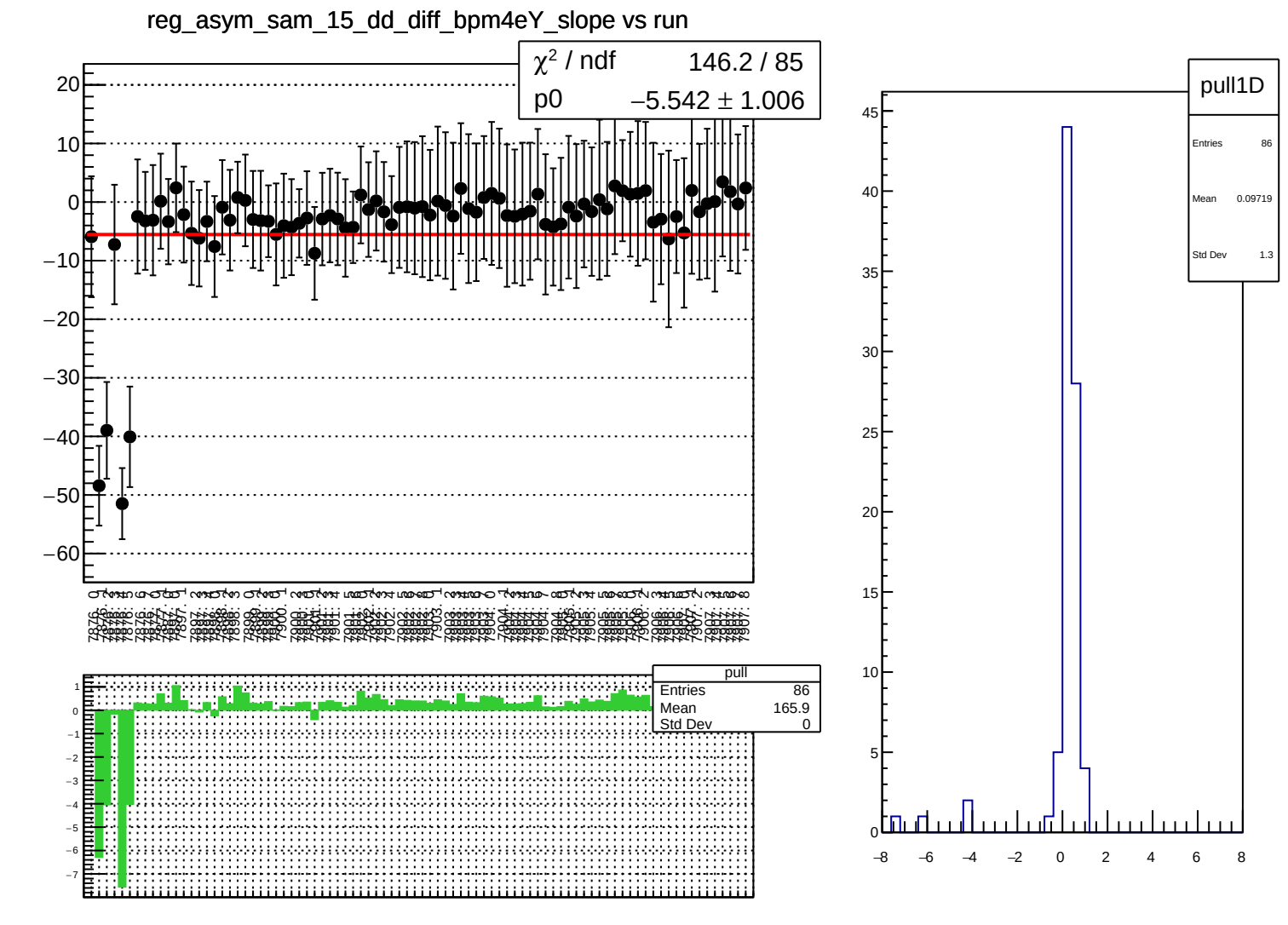

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 536.1 / 85
p0 27.14 ± 0.4278
pull
Entries 86
Mean 214.1
Std Dev 0
pull1D
Entries 86
Mean −0.5881
Std Dev 1.212

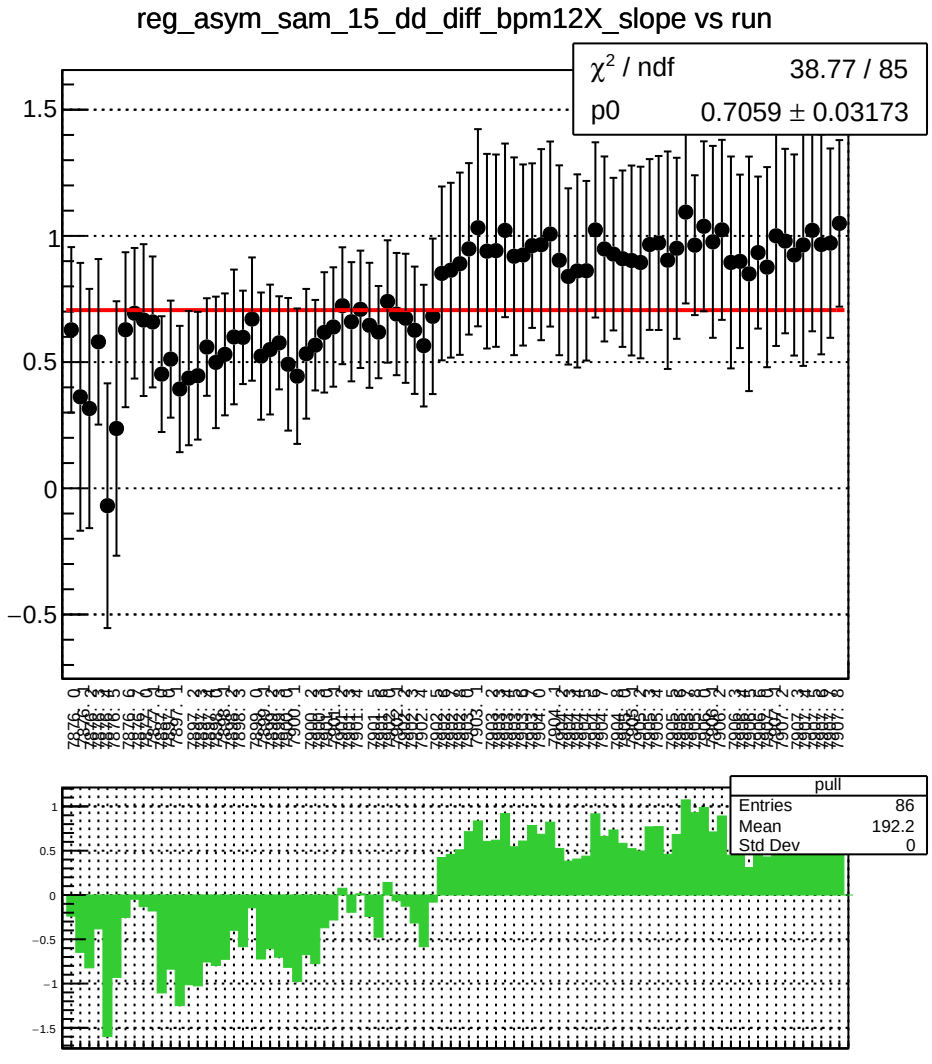

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 179.3 / 85
p0 −0.4305 ± 0.01347
pull
Entries 86
Mean 321.7
Std Dev 0
pull1D
Entries 86
Mean −0.1101
Std Dev 1.44

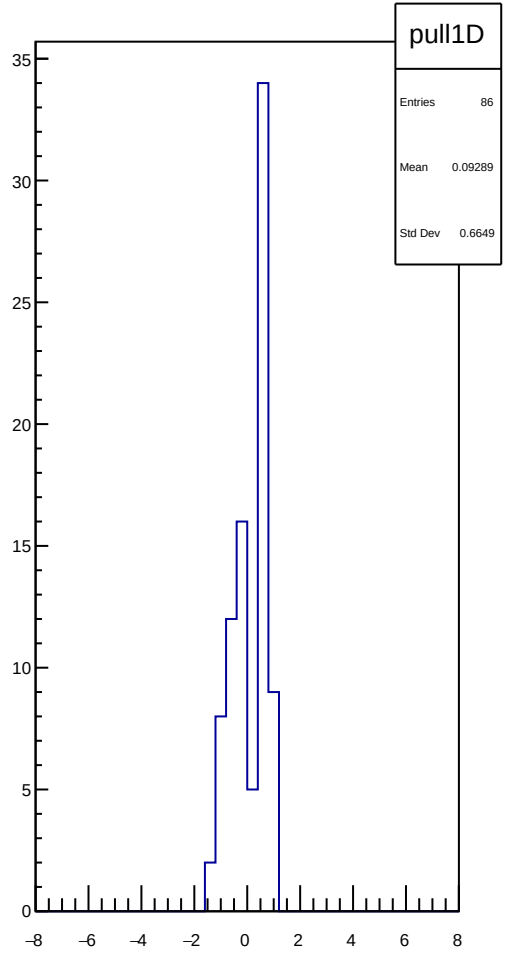

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 7.409 / 85
p0 −0.3378 ± 0.8225
pull
Entries 86
Mean 307.7
Std Dev 0
pull1D
Entries 86
Mean 0.01254
Std Dev 0.2932

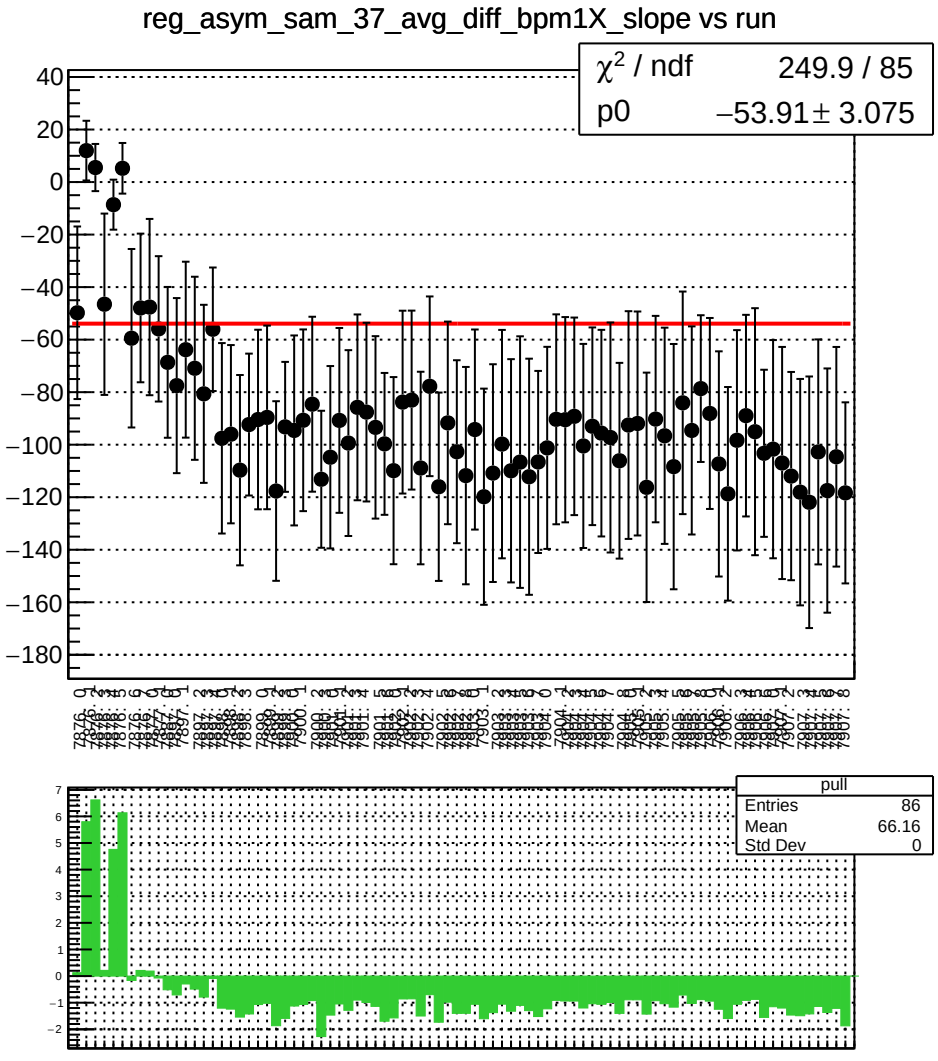

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 223.8 / 85
p0 −83.83 ± 0.8472
pull
Entries 86
Mean 102.6
Std Dev 0
pull1D
Entries 86
Mean −0.3619
Std Dev 1.246

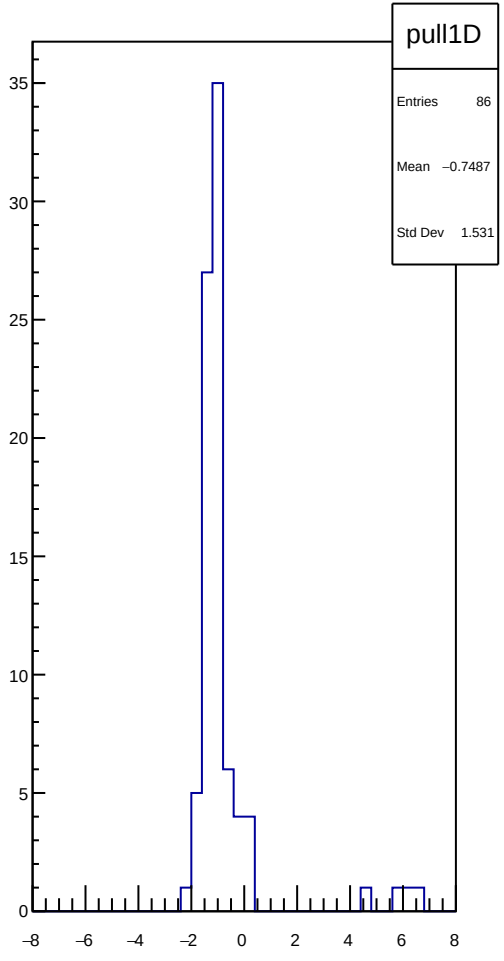

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.321 / 85
p0 −8.408 ± 0.6769
pull
Entries 86
Mean 1889
Std Dev 0
pull1D
Entries 86
Mean −0.00152
Std Dev 0.2918

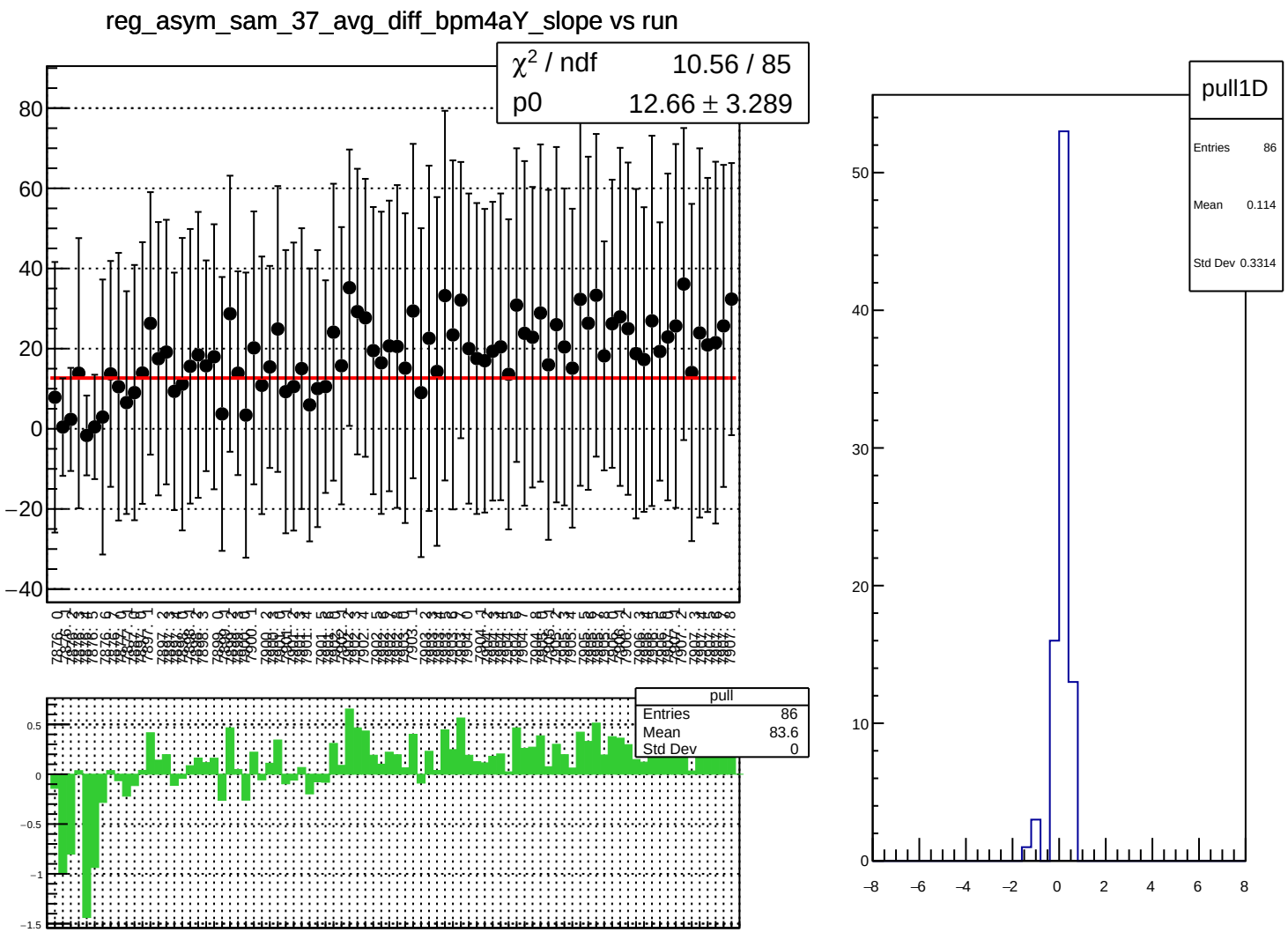

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 146.2 / 85
p0 −5.542 ± 1.006
pull
Entries 86
Mean 165.9
Std Dev 0
pull1D
Entries 86
Mean 0.09719
Std Dev 1.3

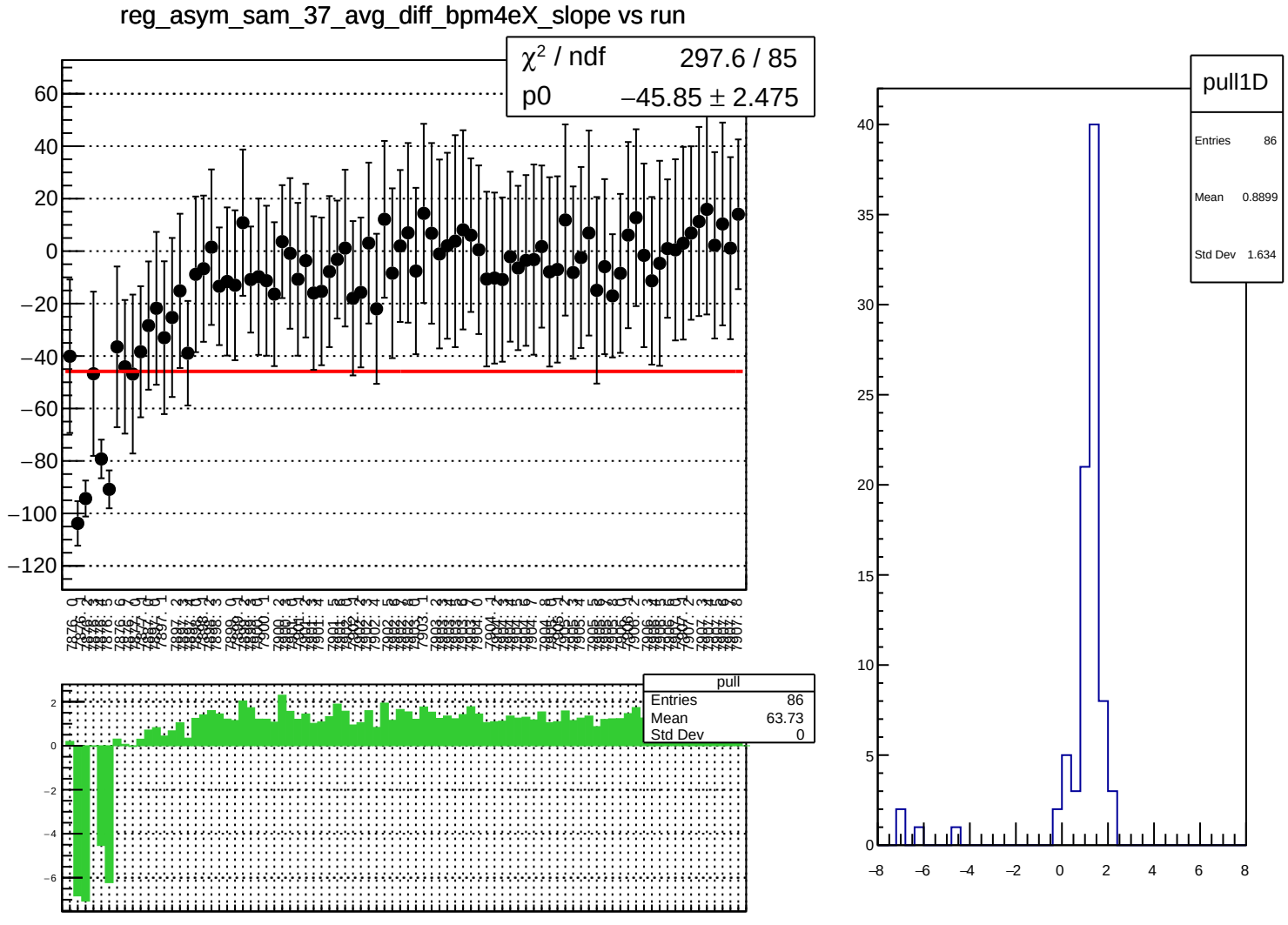

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 38.77 / 85
p0 0.7059 ± 0.03173
pull
Entries 86
Mean 192.2
Std Dev 0

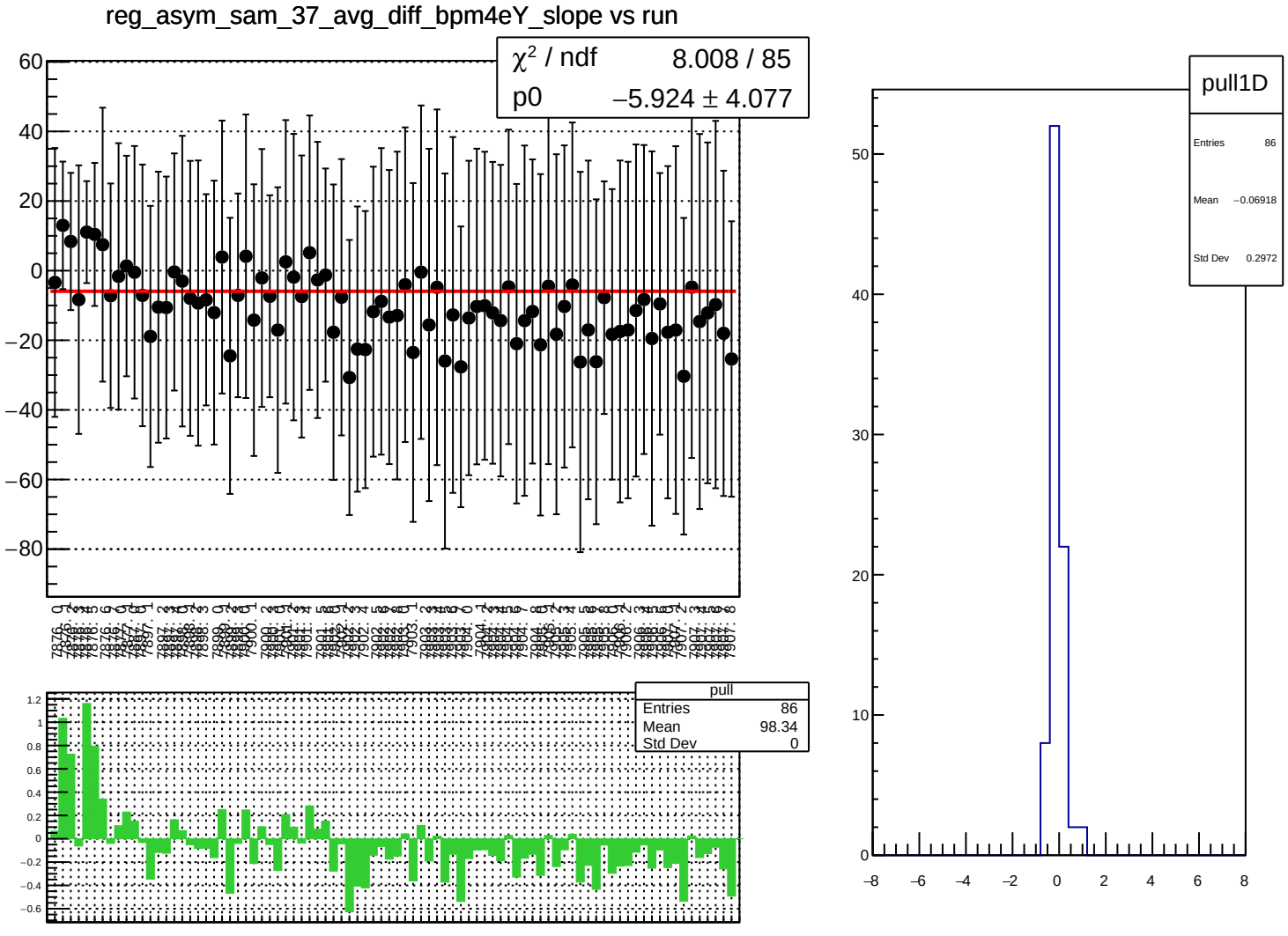

pull1D
Entries 86
Mean 0.09289
Std Dev 0.6649

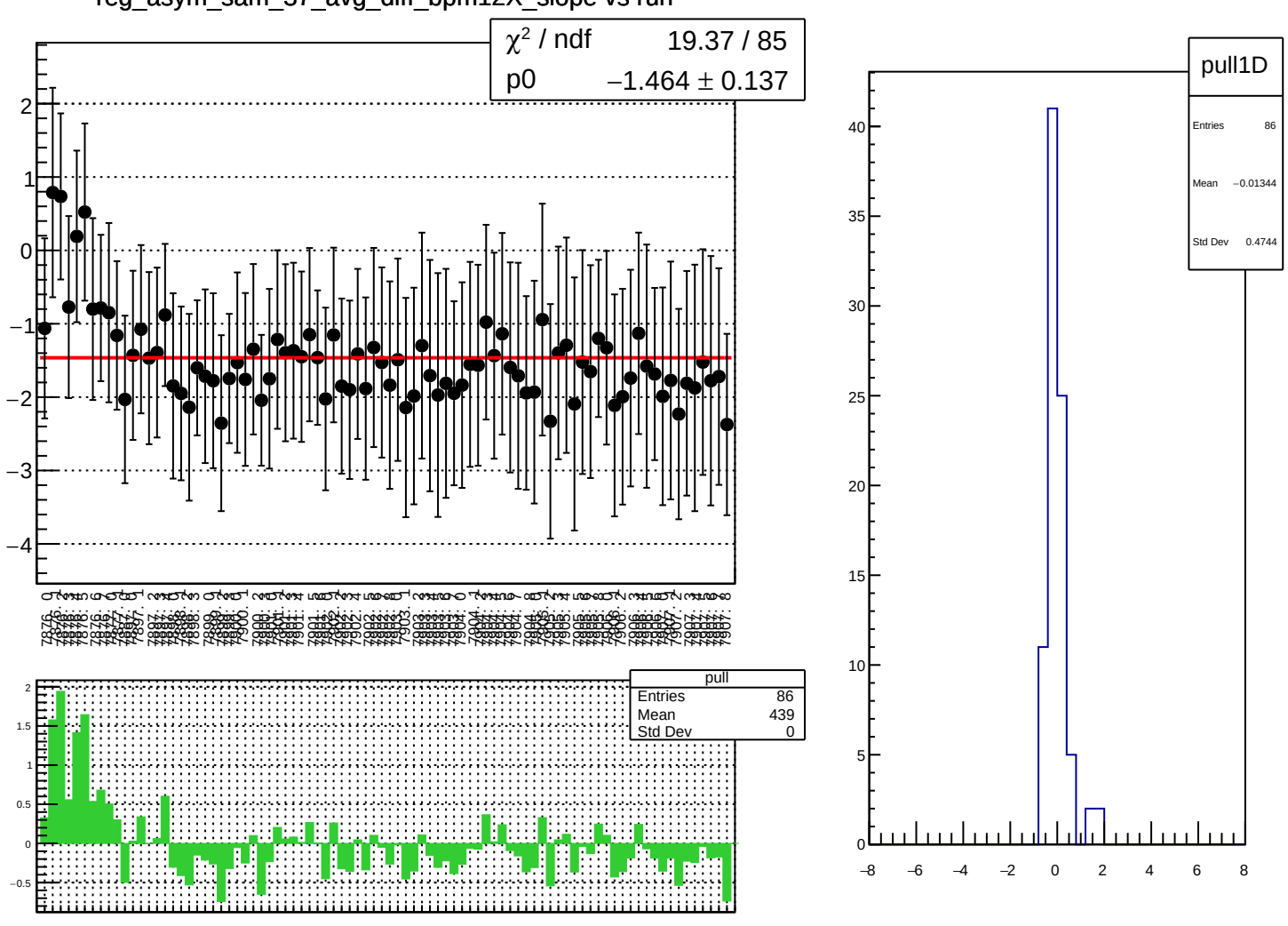

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 249.9 / 85
p0 −53.91 ± 3.075
pull
Entries 86
Mean 66.16
Std Dev 0

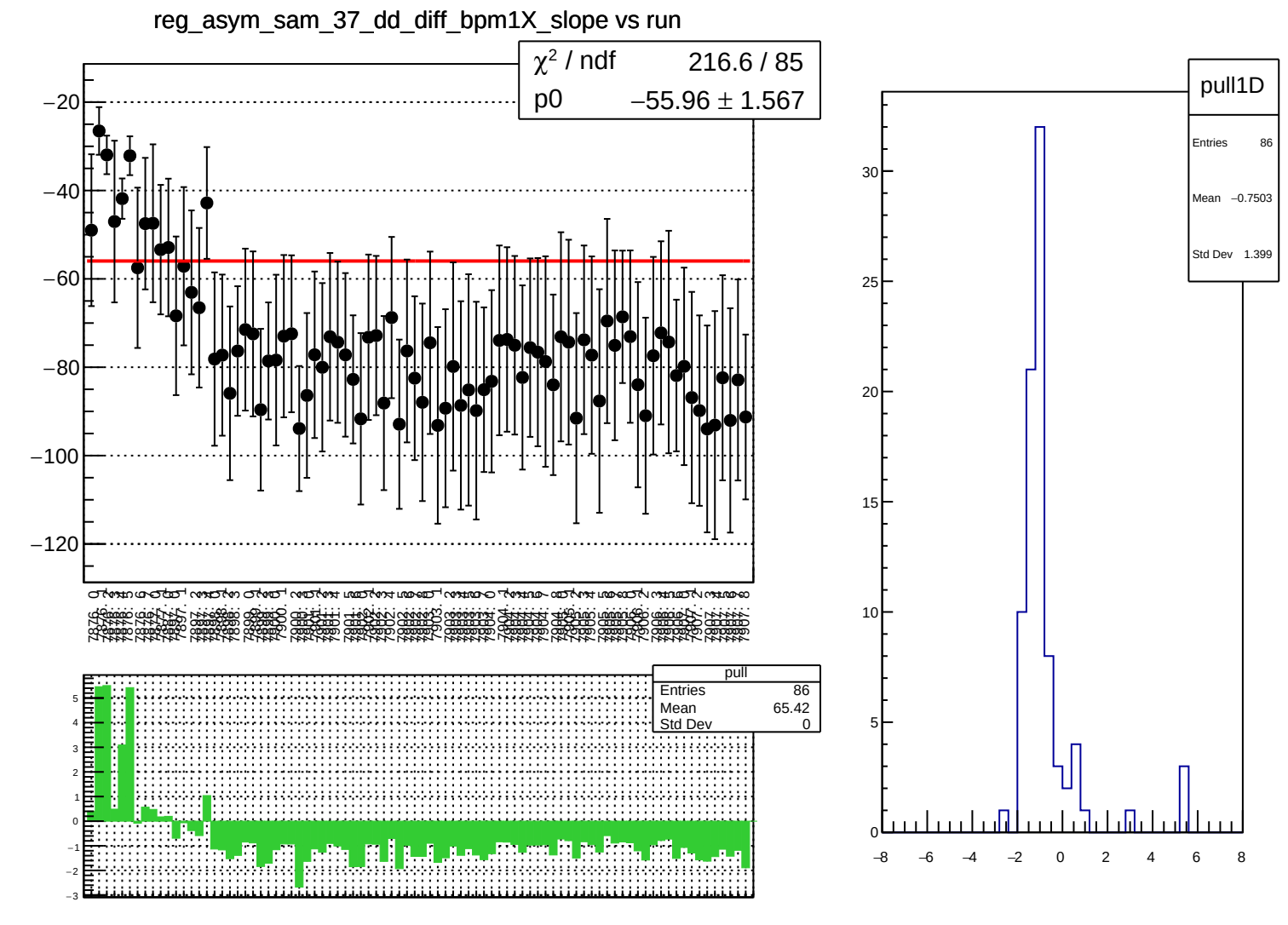

pull1D
Entries 86
Mean −0.7487
Std Dev 1.531

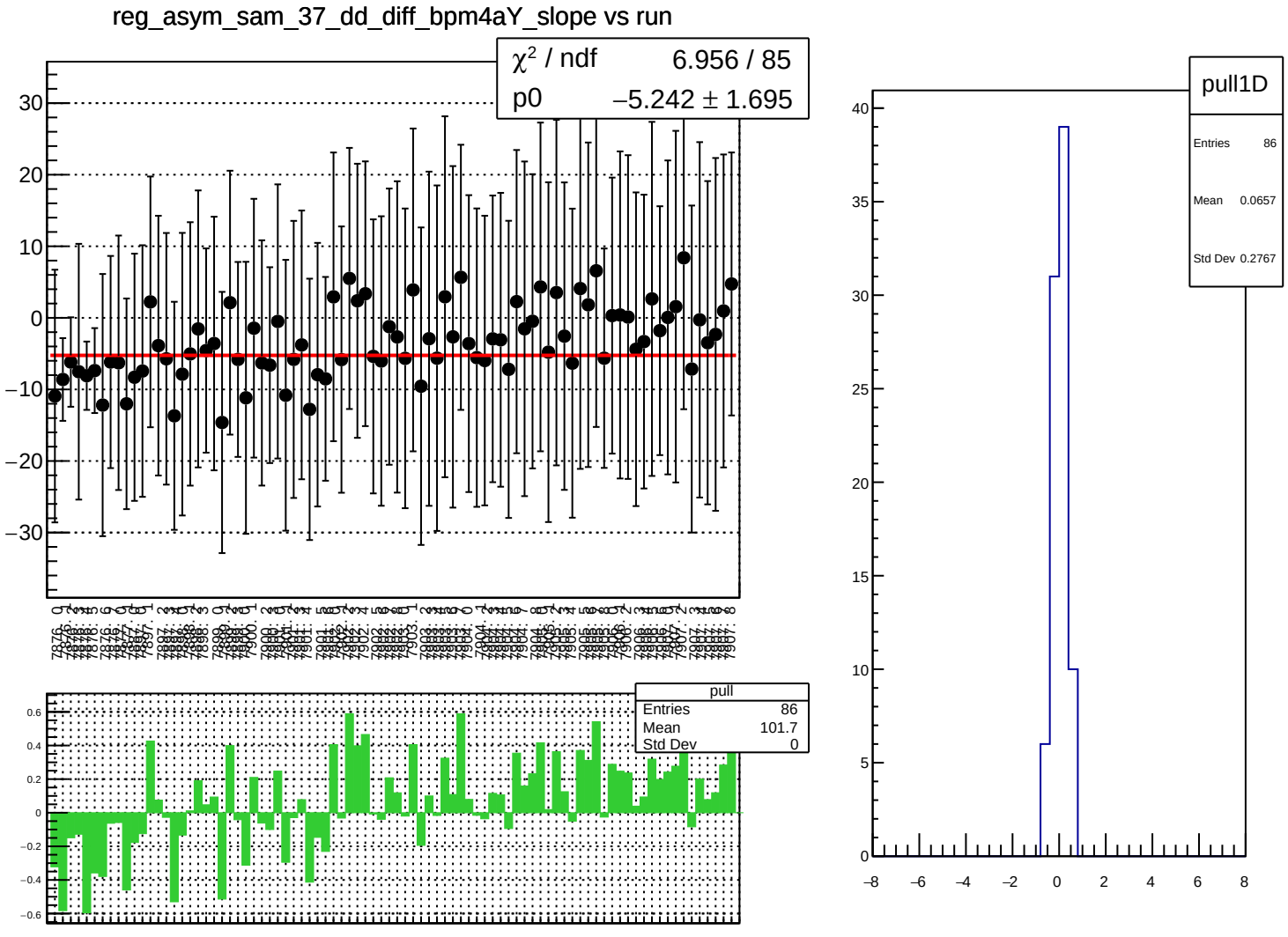

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.56 / 85
p0 12.66 ± 3.289
pull
Entries 86
Mean 83.6
Std Dev 0
pull1D
Entries 86
Mean 0.114
Std Dev 0.3314

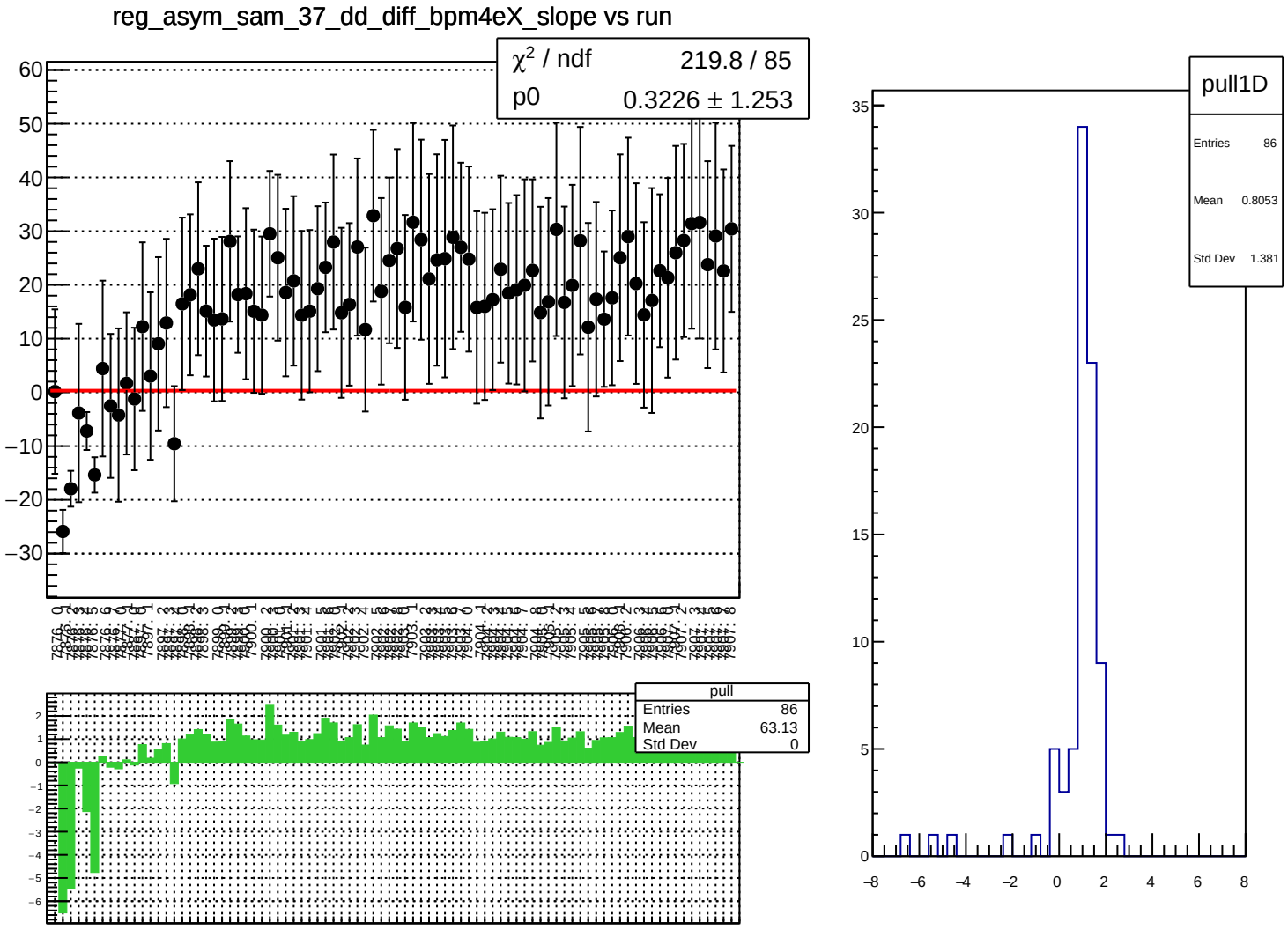

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 297.6 / 85
p0 −45.85 ± 2.475
pull
Entries 86
Mean 63.73
Std Dev 0
pull1D
Entries 86
Mean 0.8899
Std Dev 1.634

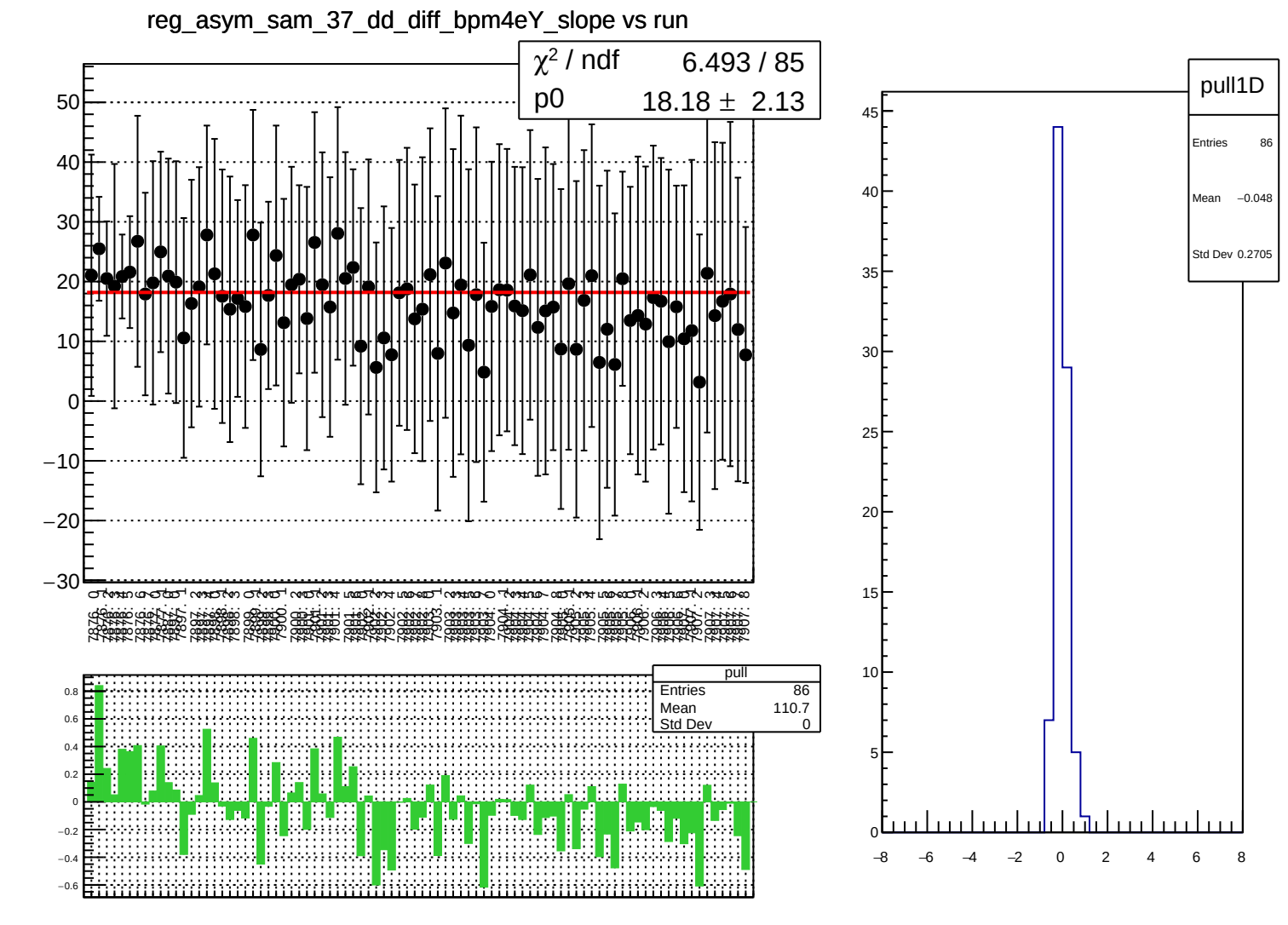

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.008 / 85
p0 −5.924 ± 4.077
pull
Entries 86
Mean 98.34
Std Dev 0
pull1D
Entries 86
Mean −0.06918
Std Dev 0.2972

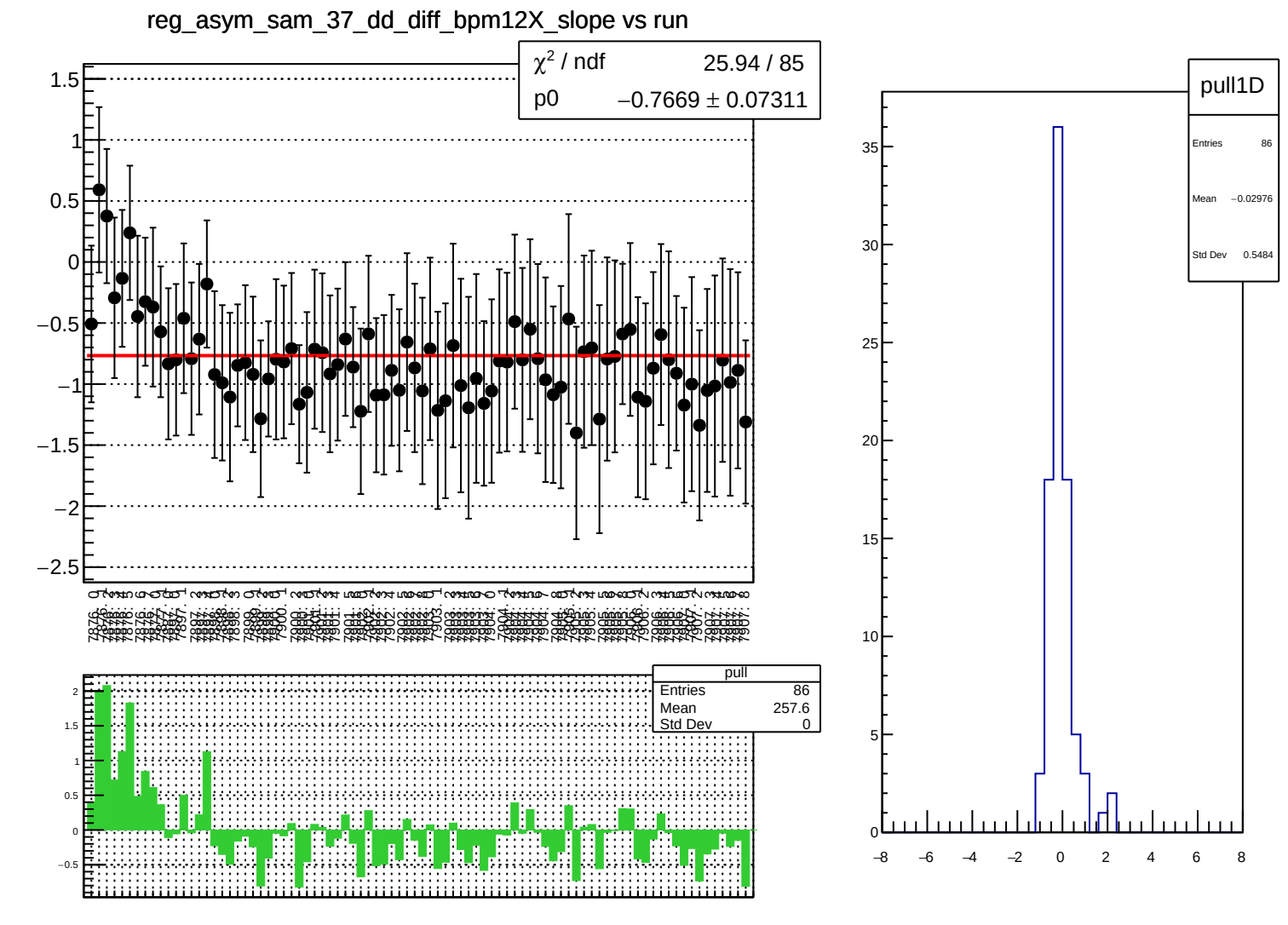

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 19.37 / 85
p0 −1.464 ± 0.137
pull
Entries 86
Mean 439
Std Dev 0
pull1D
Entries 86
Mean −0.01344
Std Dev 0.4744

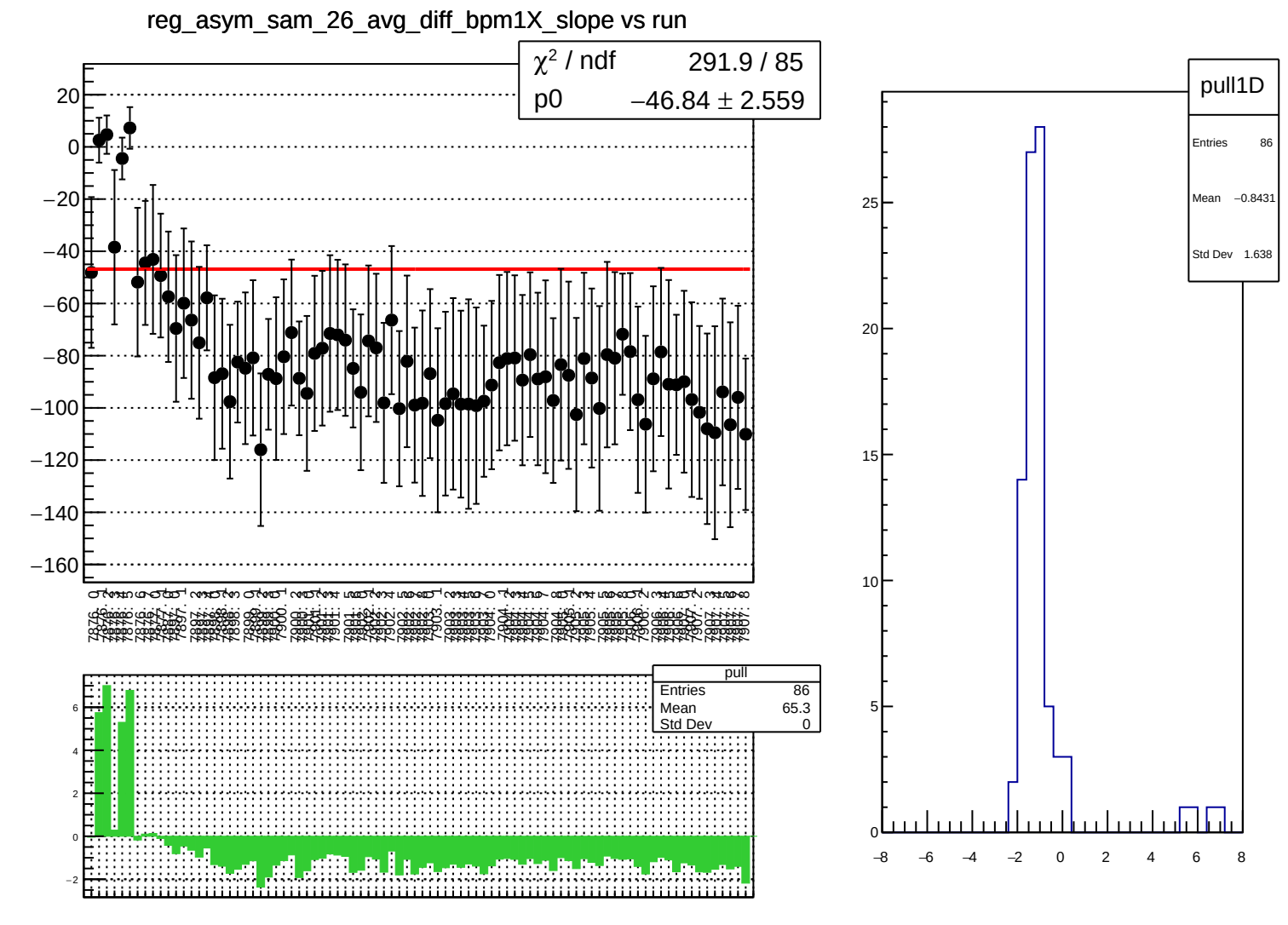

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 216.6 / 85
p0 −55.96 ± 1.567
−20
−40
−60
−80
−100
−120
pull
Entries 86
Mean 65.42
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.7503
Std Dev 1.399
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

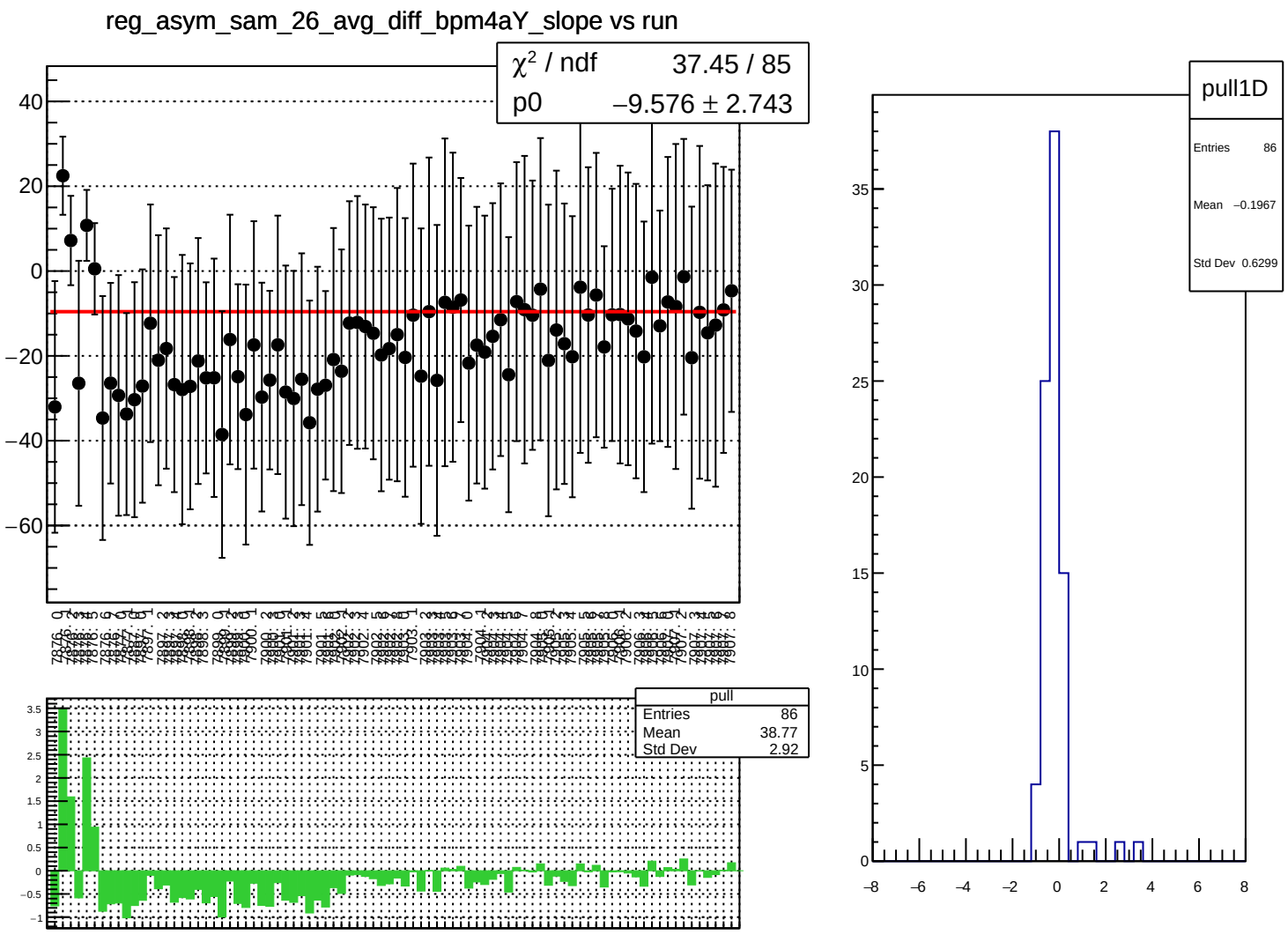

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.956 / 85
p0 −5.242 ± 1.695
pull
Entries 86
Mean 101.7
Std Dev 0
pull1D
Entries 86
Mean 0.0657
Std Dev 0.2767

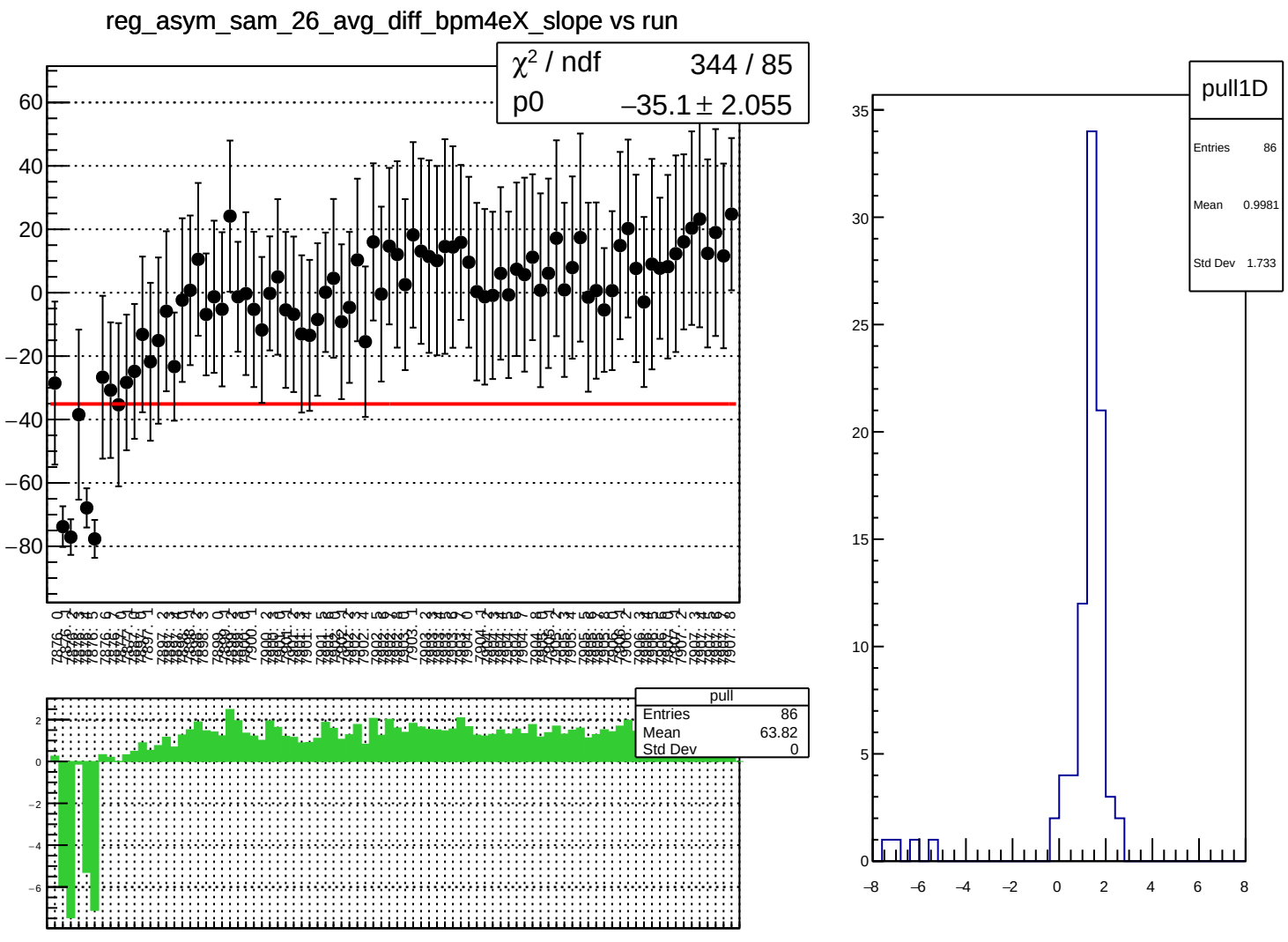

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 219.8 / 85
p0 0.3226 ± 1.253
pull
Entries 86
Mean 63.13
Std Dev 0
pull1D
Entries 86
Mean 0.8053
Std Dev 1.381

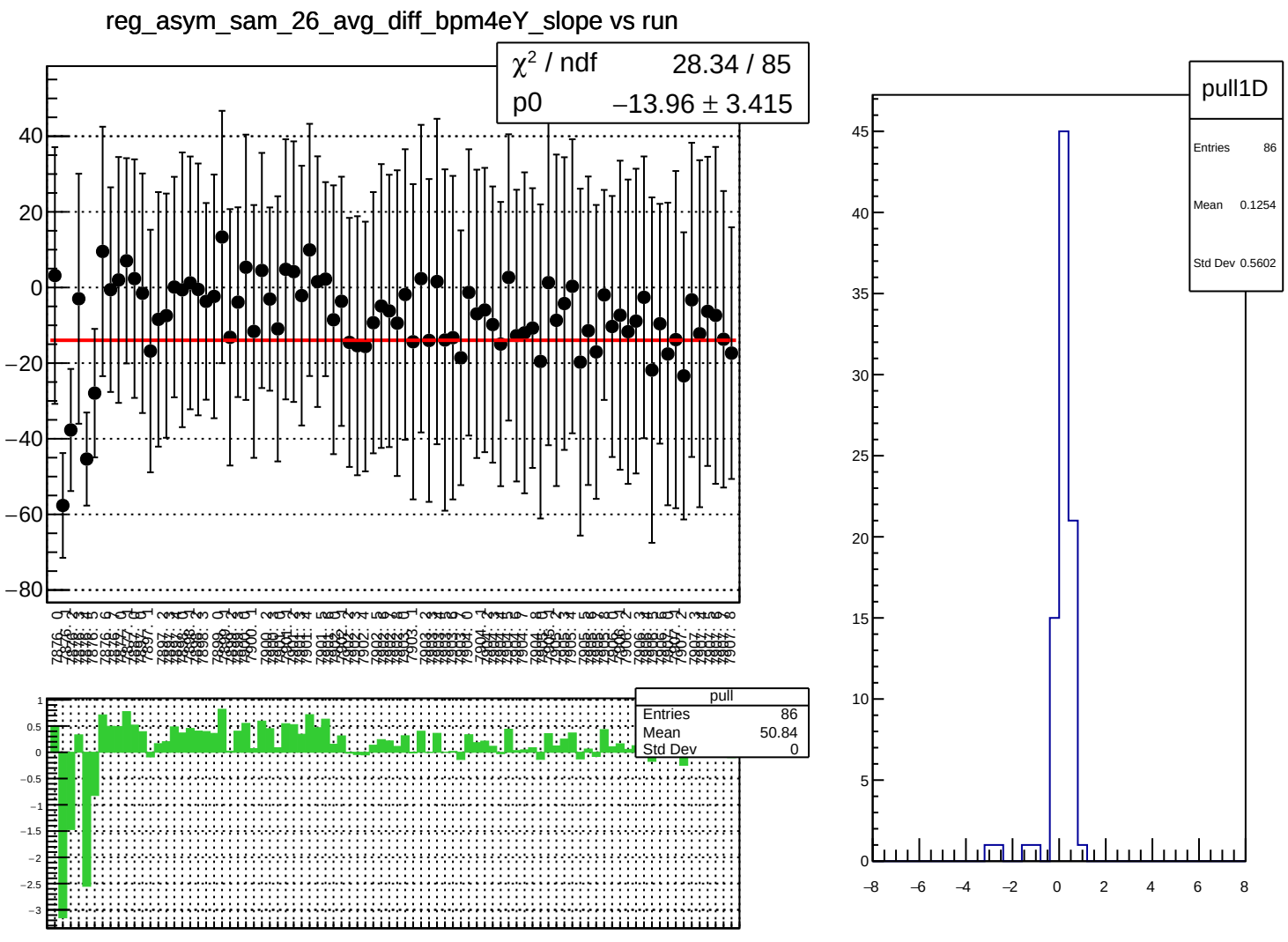

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.493 / 85
p0 18.18 ± 2.13
pull
Entries 86
Mean 110.7
Std Dev 0
pull1D
Entries 86
Mean −0.048
Std Dev 0.2705

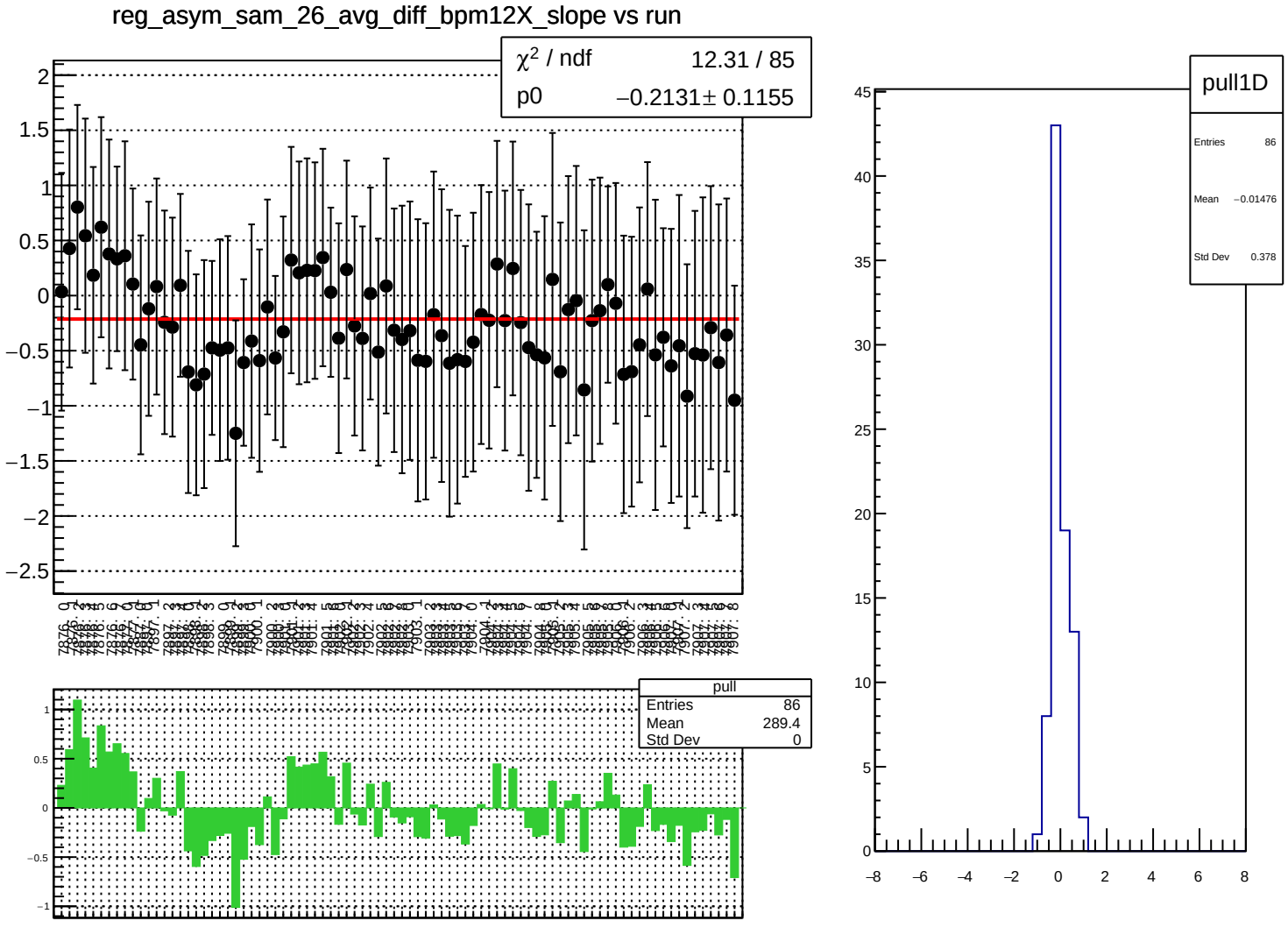

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 25.94 / 85
p0 −0.7669 ± 0.07311
pull
Entries 86
Mean 257.6
Std Dev 0
pull1D
Entries 86
Mean −0.02976
Std Dev 0.5484

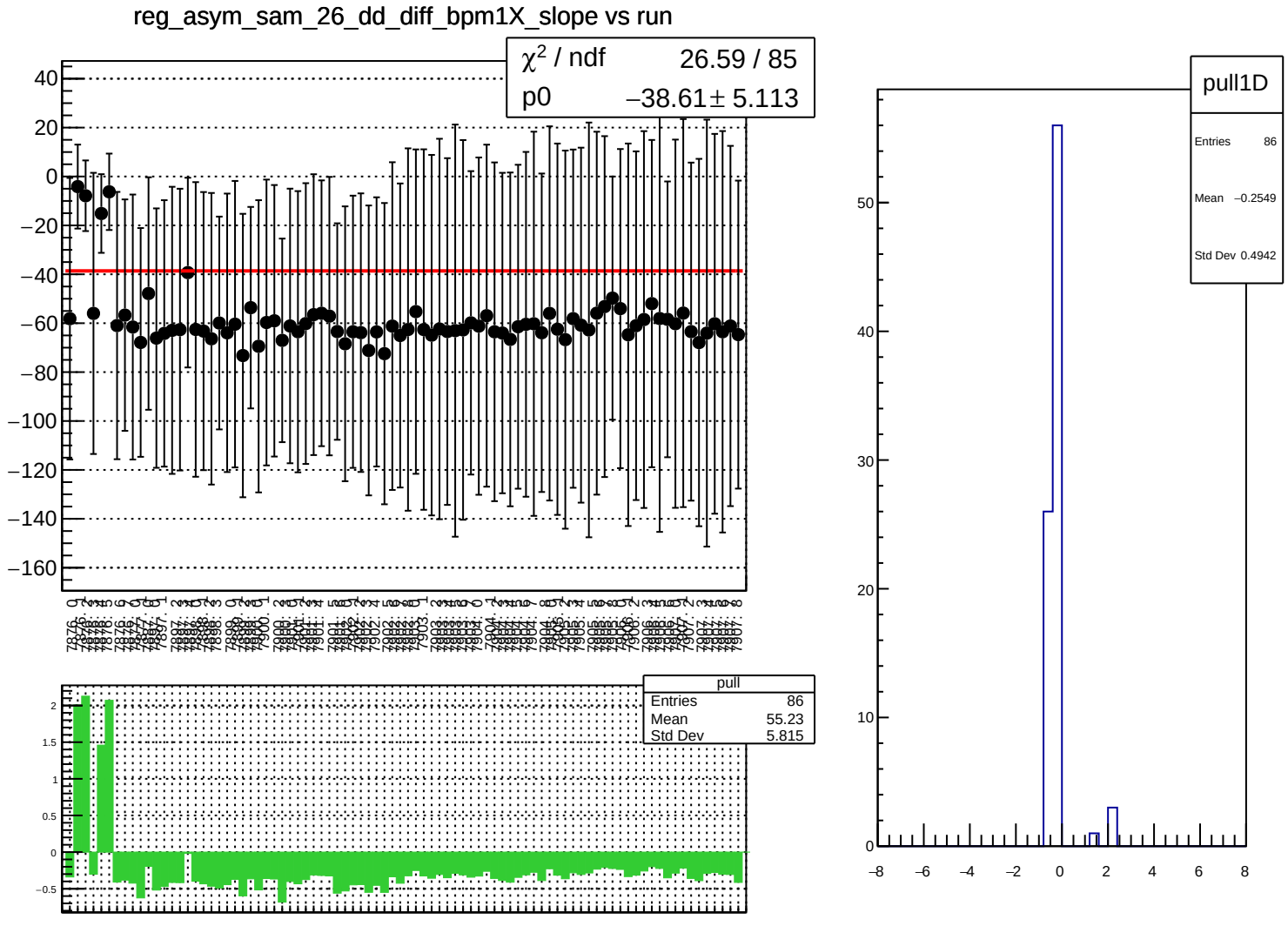

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 291.9 / 85
p0 −46.84 ± 2.559
pull
Entries 86
Mean 65.3
Std Dev 0
pull1D
Entries 86
Mean −0.8431
Std Dev 1.638

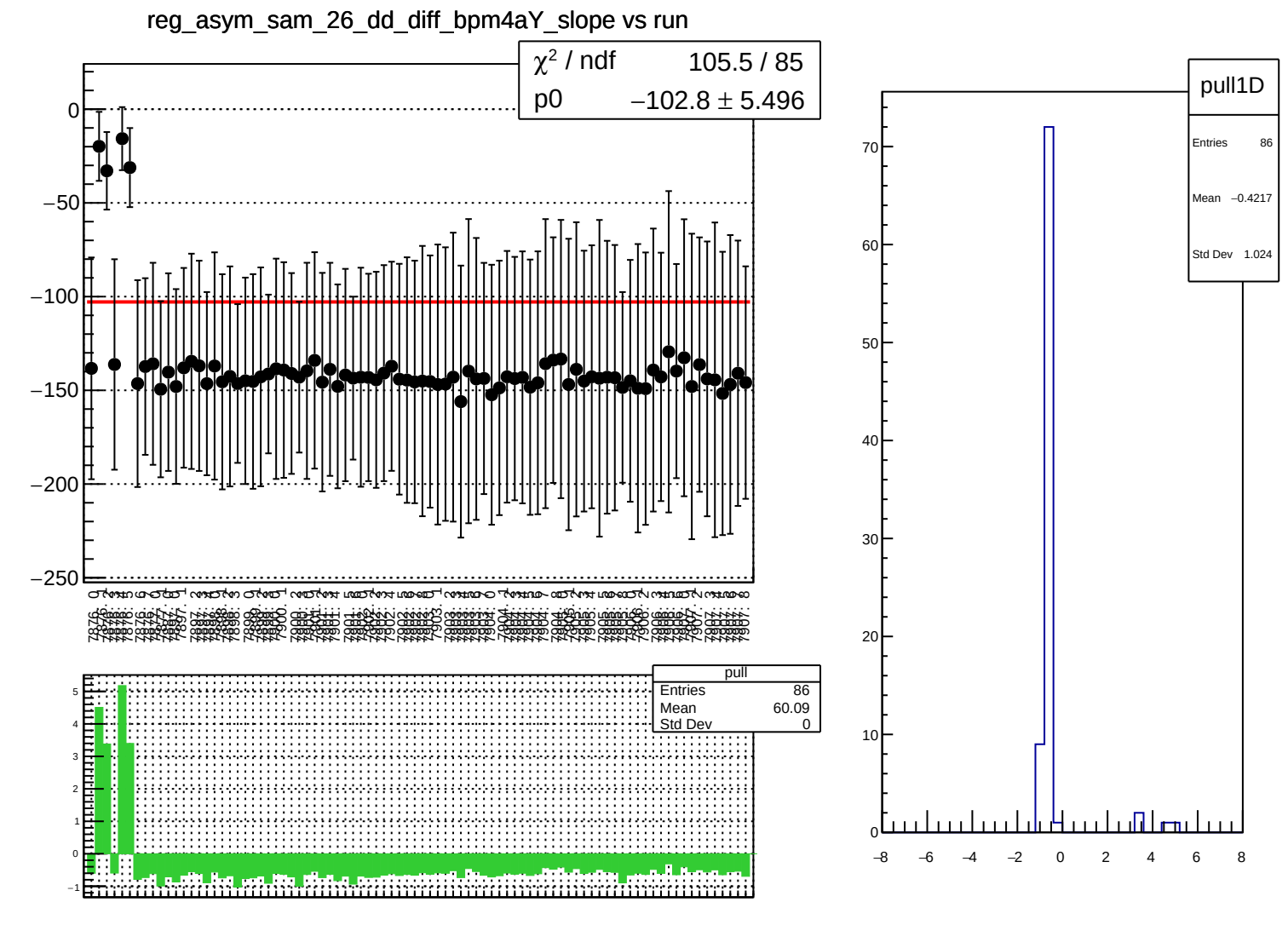

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.45 / 85
p0 −9.576 ± 2.743
pull
Entries 86
Mean 38.77
Std Dev 2.92
pull1D
Entries 86
Mean −0.1967
Std Dev 0.6299

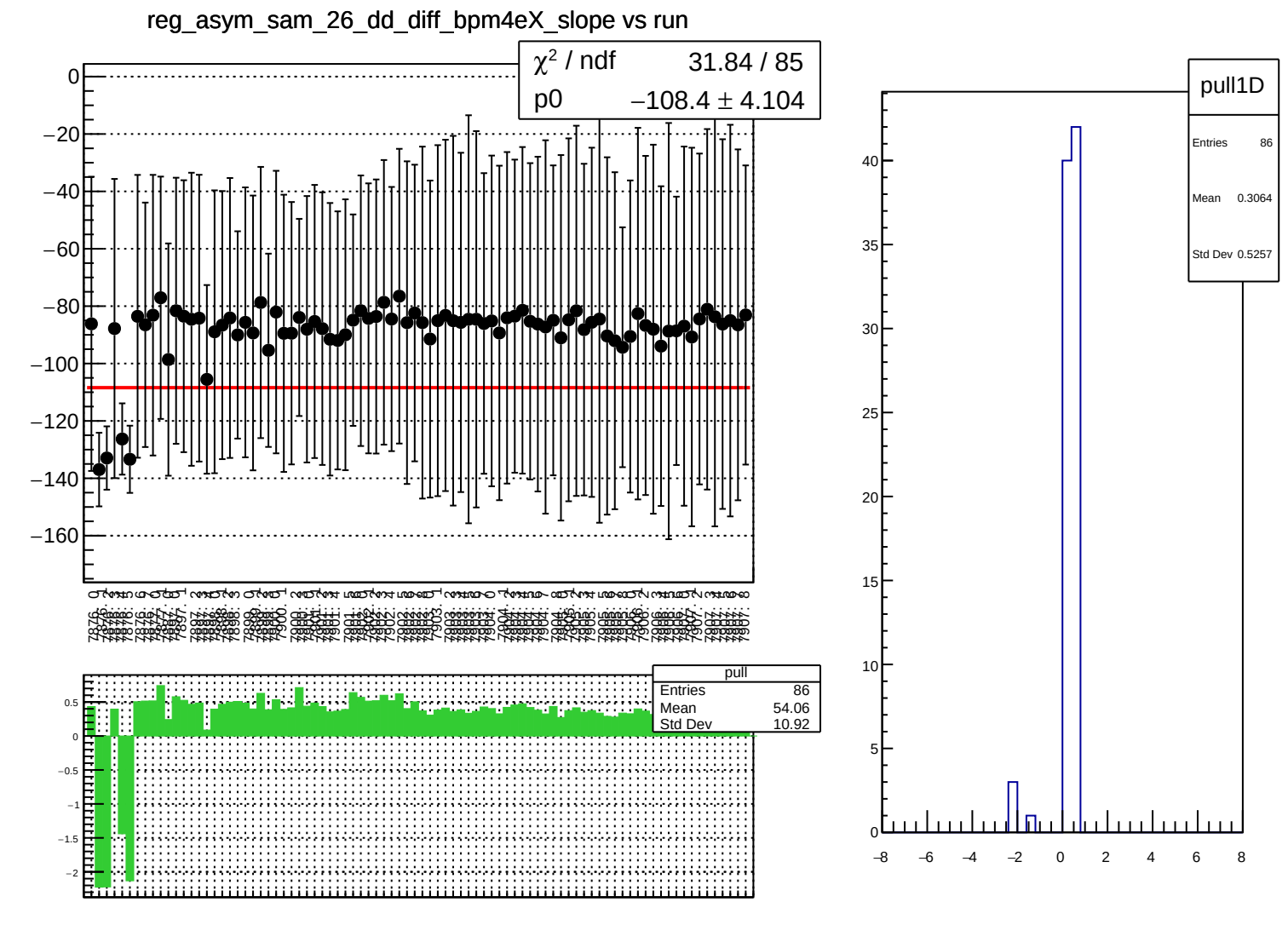

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 344 / 85
p0 −35.1 ± 2.055
pull
Entries 86
Mean 63.82
Std Dev 0
pull1D
Entries 86
Mean 0.9981
Std Dev 1.733

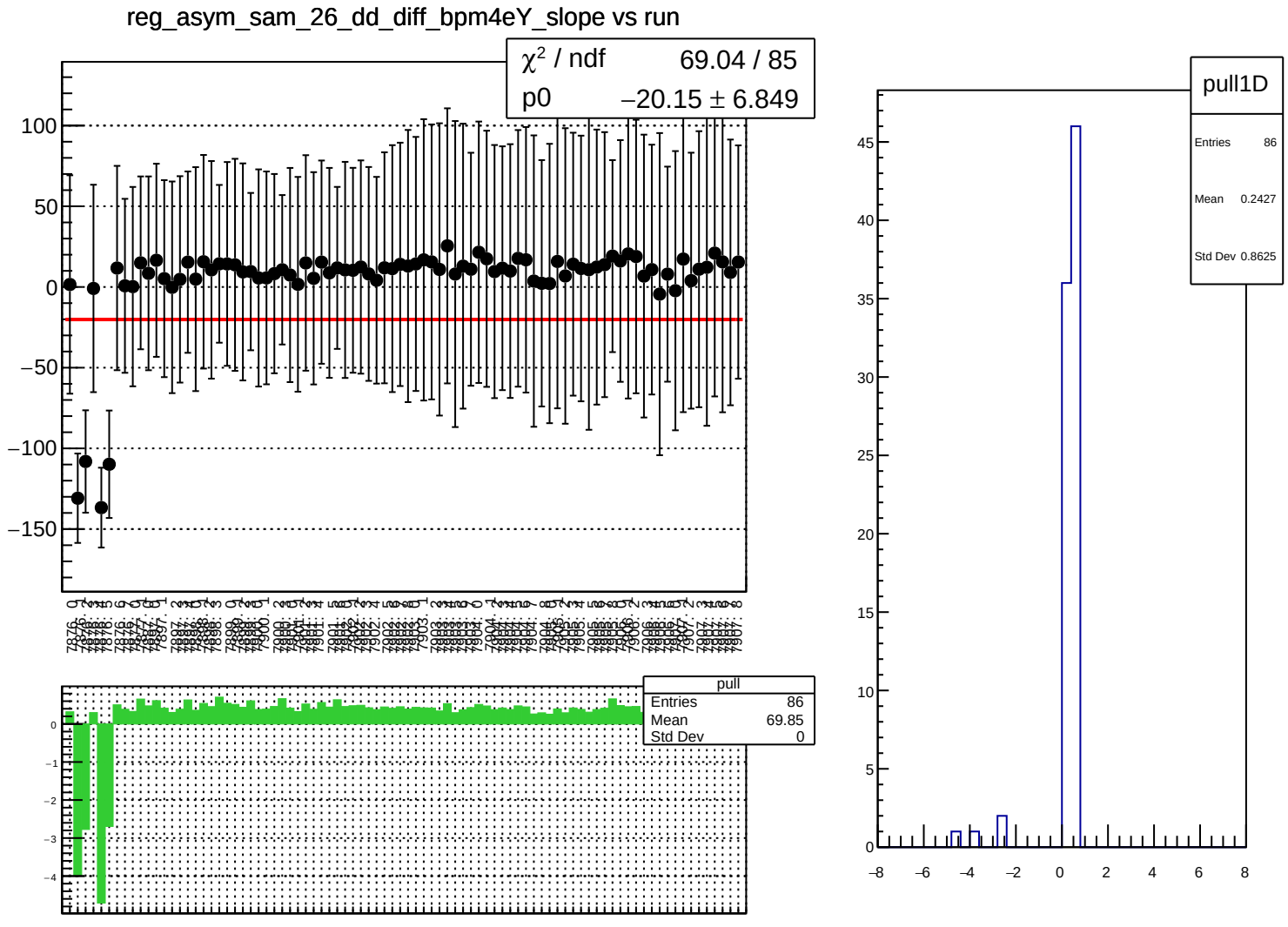

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.34 / 85
p0 −13.96 ± 3.415
pull
Entries 86
Mean 50.84
Std Dev 0
pull1D
Entries 86
Mean 0.1254
Std Dev 0.5602

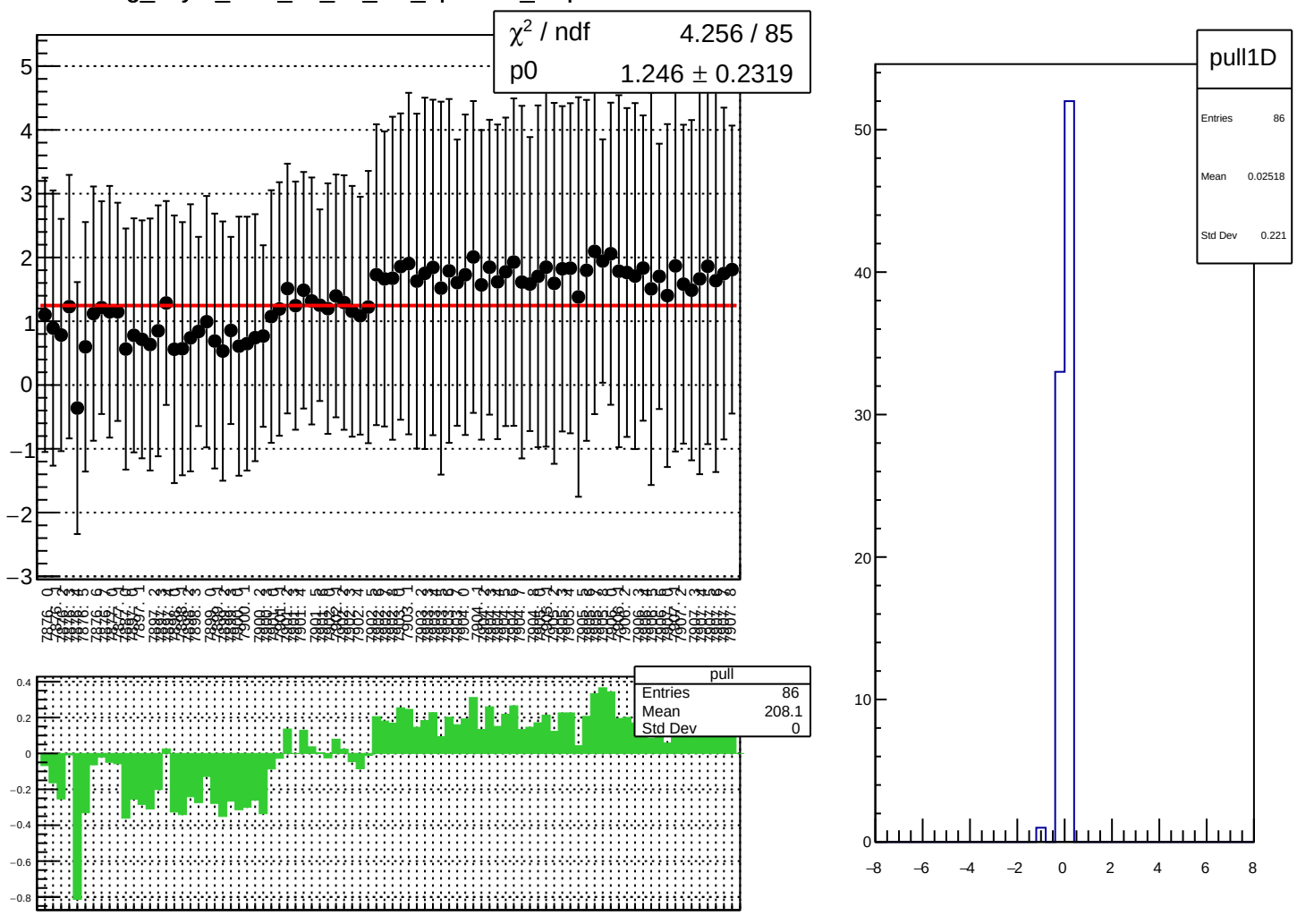

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 12.31 / 85
p0 −0.2131± 0.1155
pull
Entries 86
Mean 289.4
Std Dev 0
pull1D
Entries 86
Mean −0.01476
Std Dev 0.378

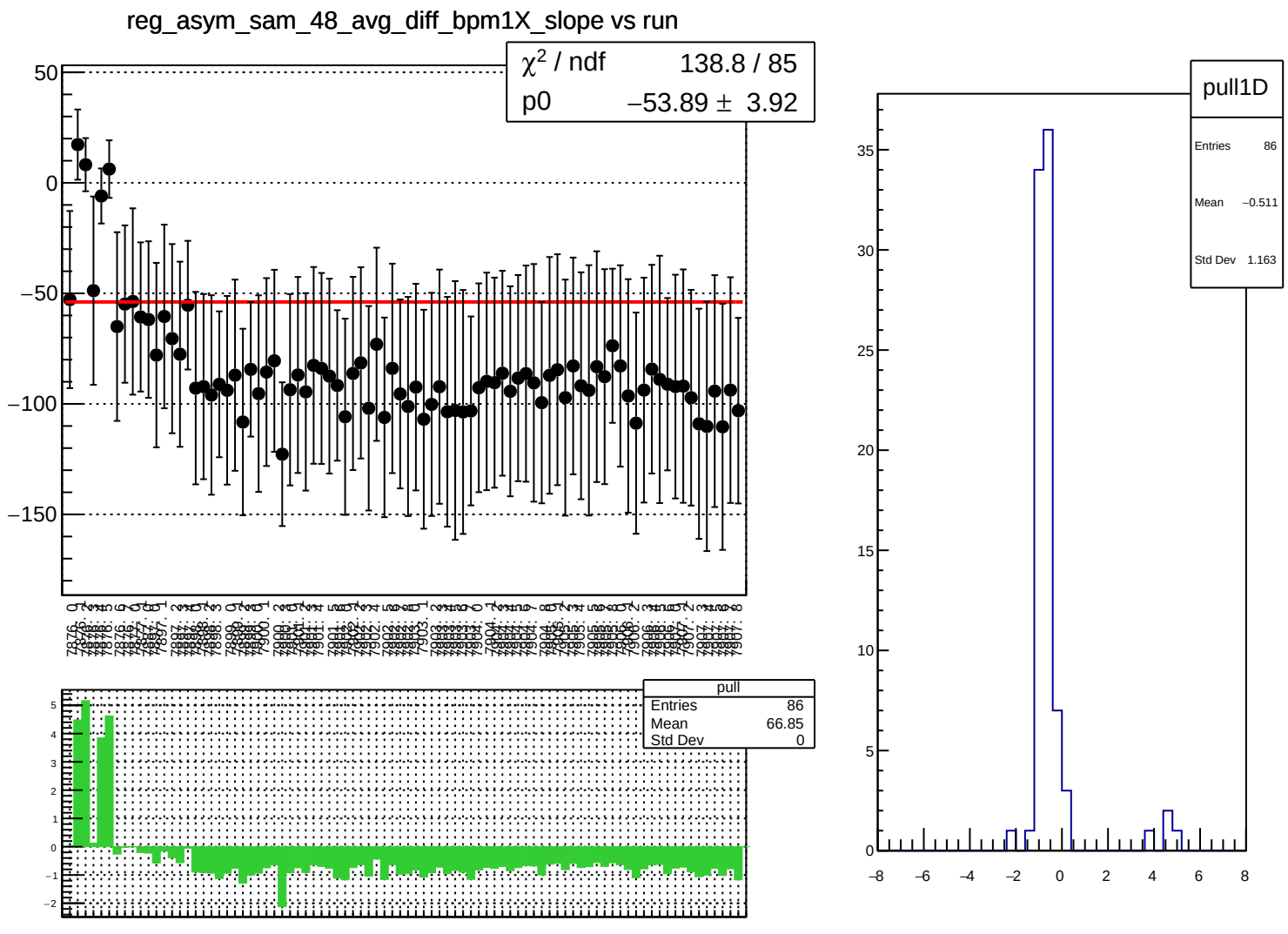

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 26.59 / 85
p0 −38.61 ± 5.113
pull
Entries 86
Mean 55.23
Std Dev 5.815
pull1D
Entries 86
Mean −0.2549
Std Dev 0.4942

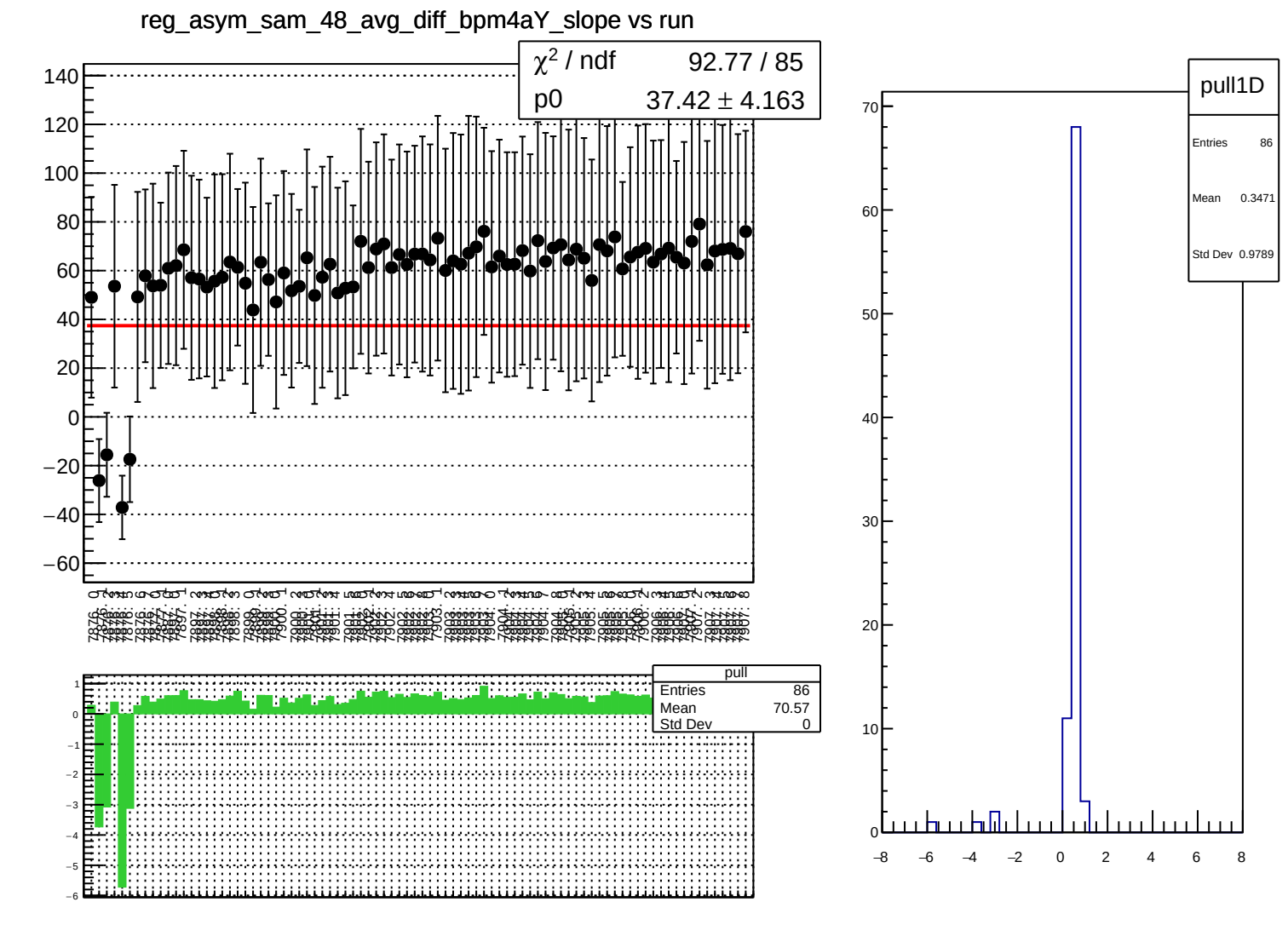

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 105.5 / 85
p0 −102.8 ± 5.496
pull
Entries 86
Mean 60.09
Std Dev 0
pull1D
Entries 86
Mean −0.4217
Std Dev 1.024

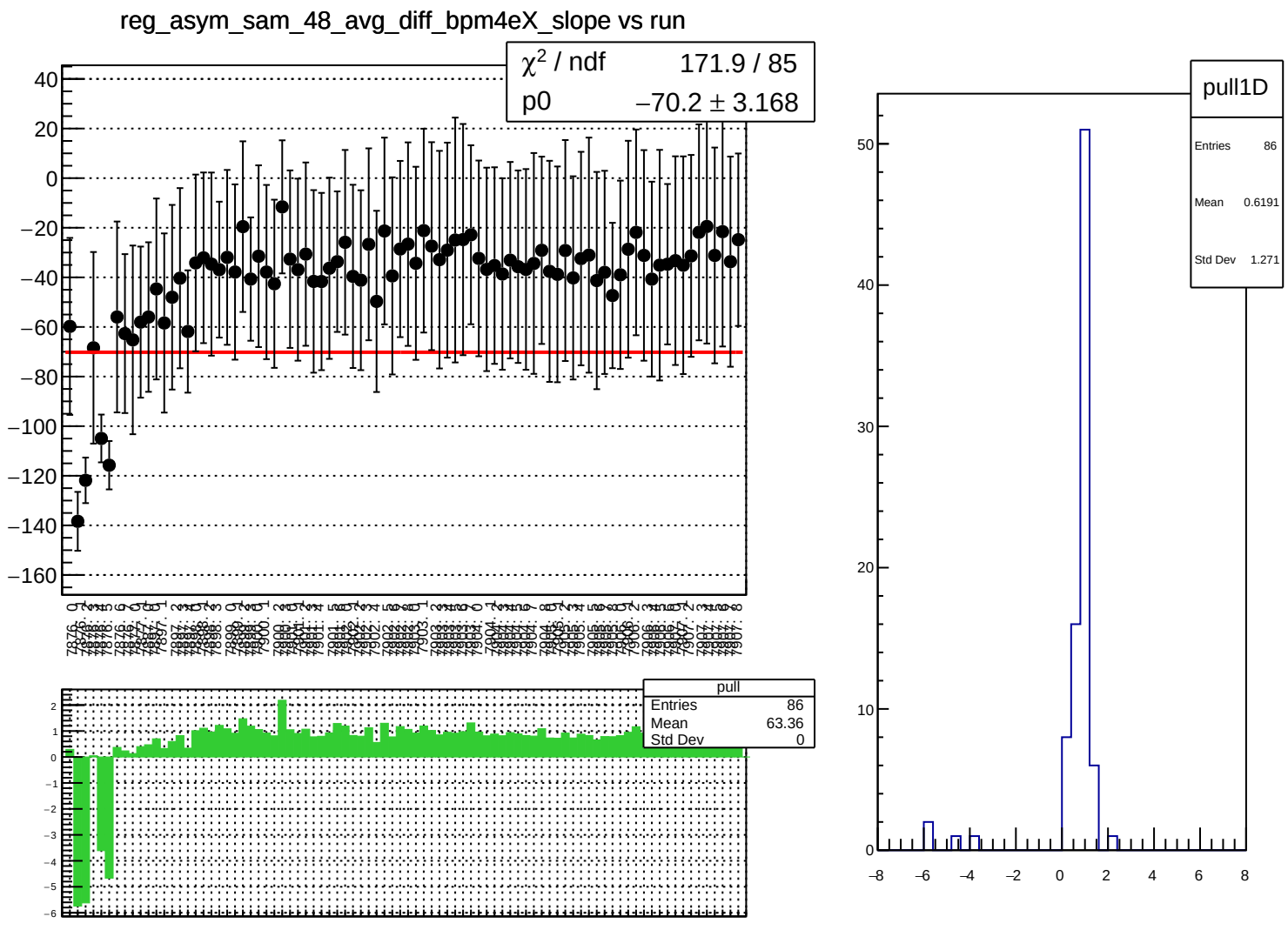

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.84 / 85
p0 −108.4 ± 4.104
pull
Entries 86
Mean 54.06
Std Dev 10.92
pull1D
Entries 86
Mean 0.3064
Std Dev 0.5257

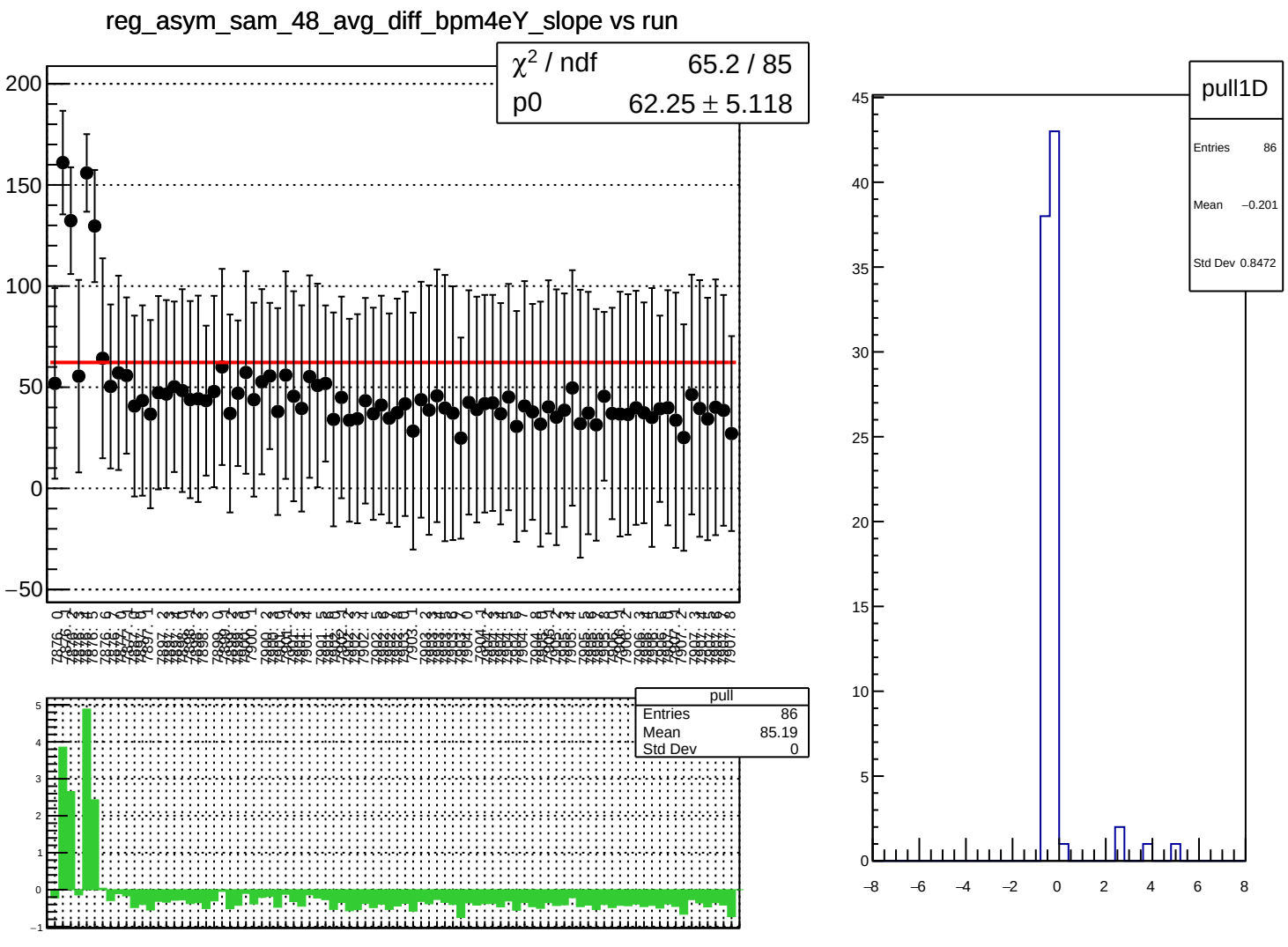

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.04 / 85
p0 −20.15 ± 6.849
pull
Entries 86
Mean 69.85
Std Dev 0
pull1D
Entries 86
Mean 0.2427
Std Dev 0.8625

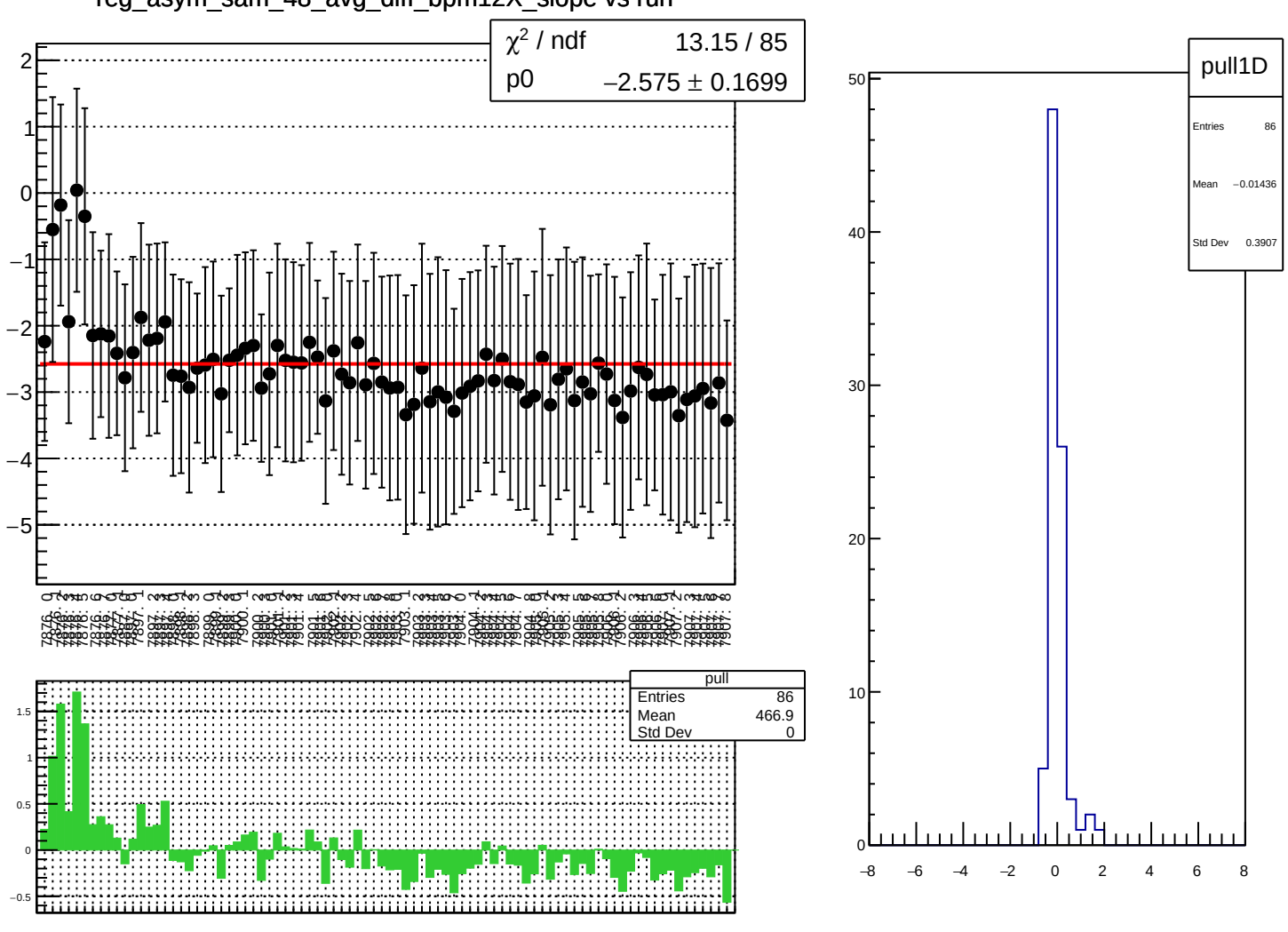

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.256 / 85
p0 1.246 ± 0.2319
pull
Entries 86
Mean 208.1
Std Dev 0
pull1D
Entries 86
Mean 0.02518
Std Dev 0.221

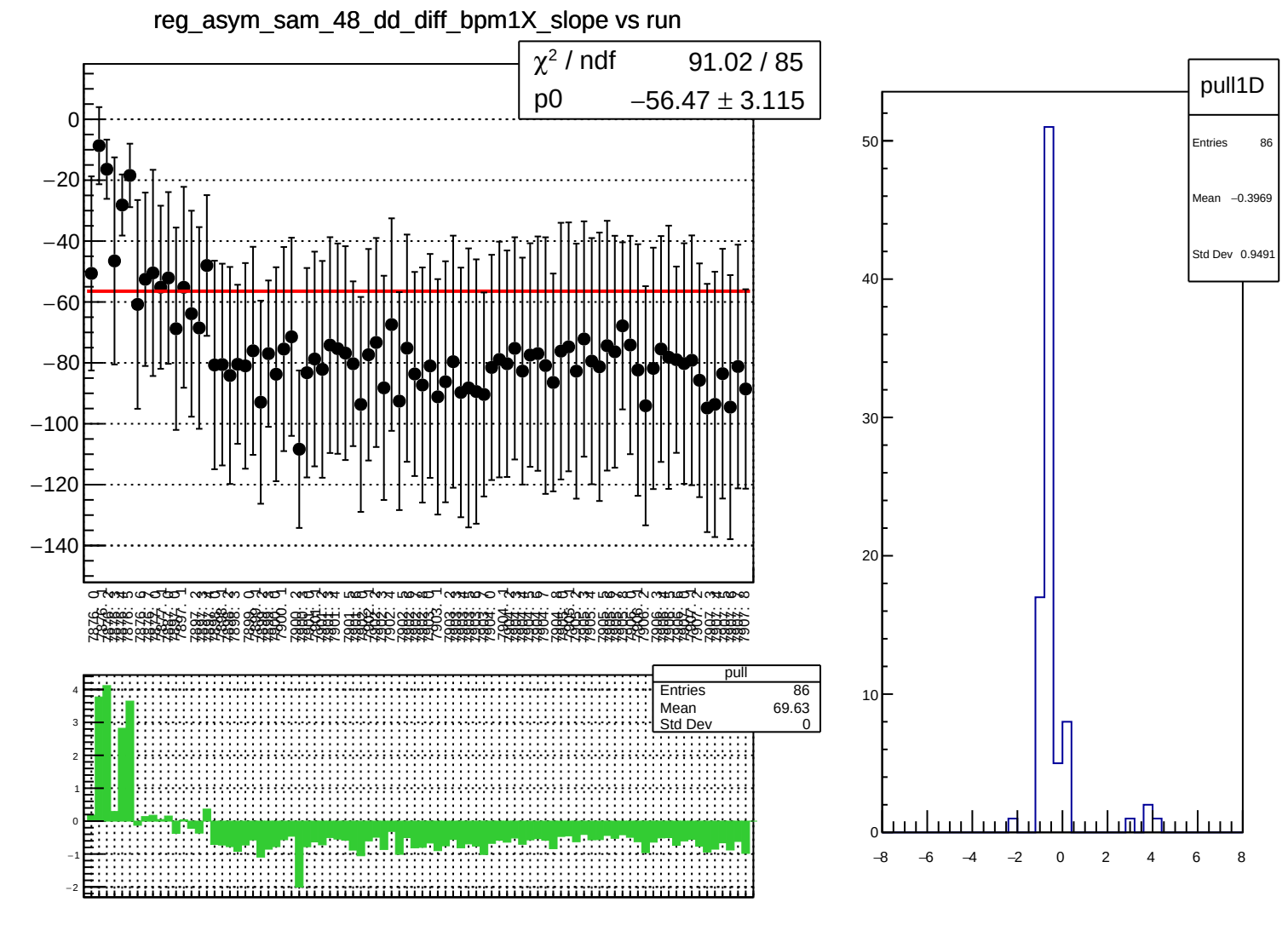

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 138.8 / 85
p0 −53.89 ± 3.92
50
0
−50
−100
−150
pull
Entries 86
Mean 66.85
Std Dev 0
pull1D
Entries 86
Mean −0.511
Std Dev 1.163

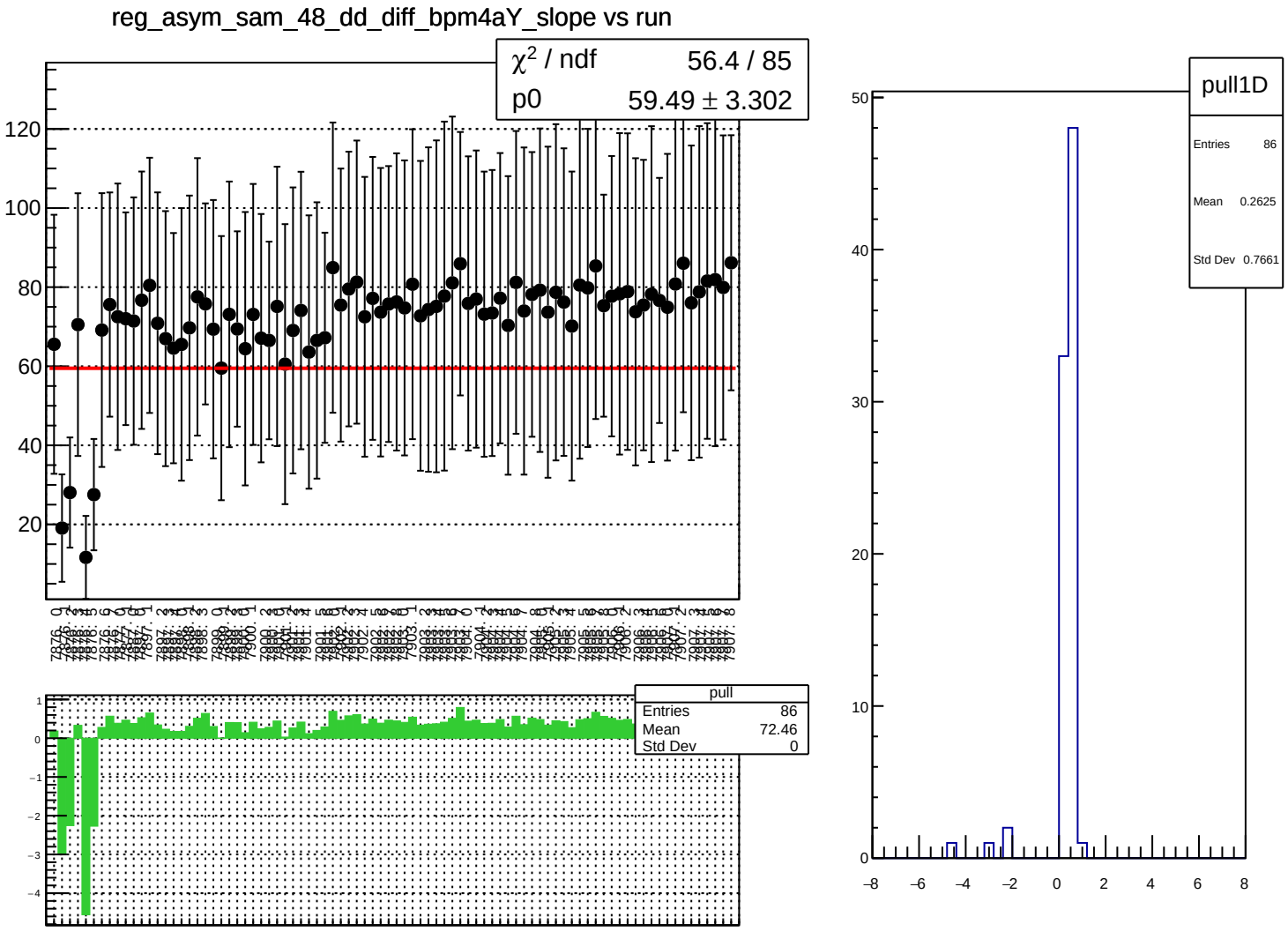

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 92.77 / 85
p0 37.42 ± 4.163
pull
Entries 86
Mean 70.57
Std Dev 0
pull1D
Entries 86
Mean 0.3471
Std Dev 0.9789

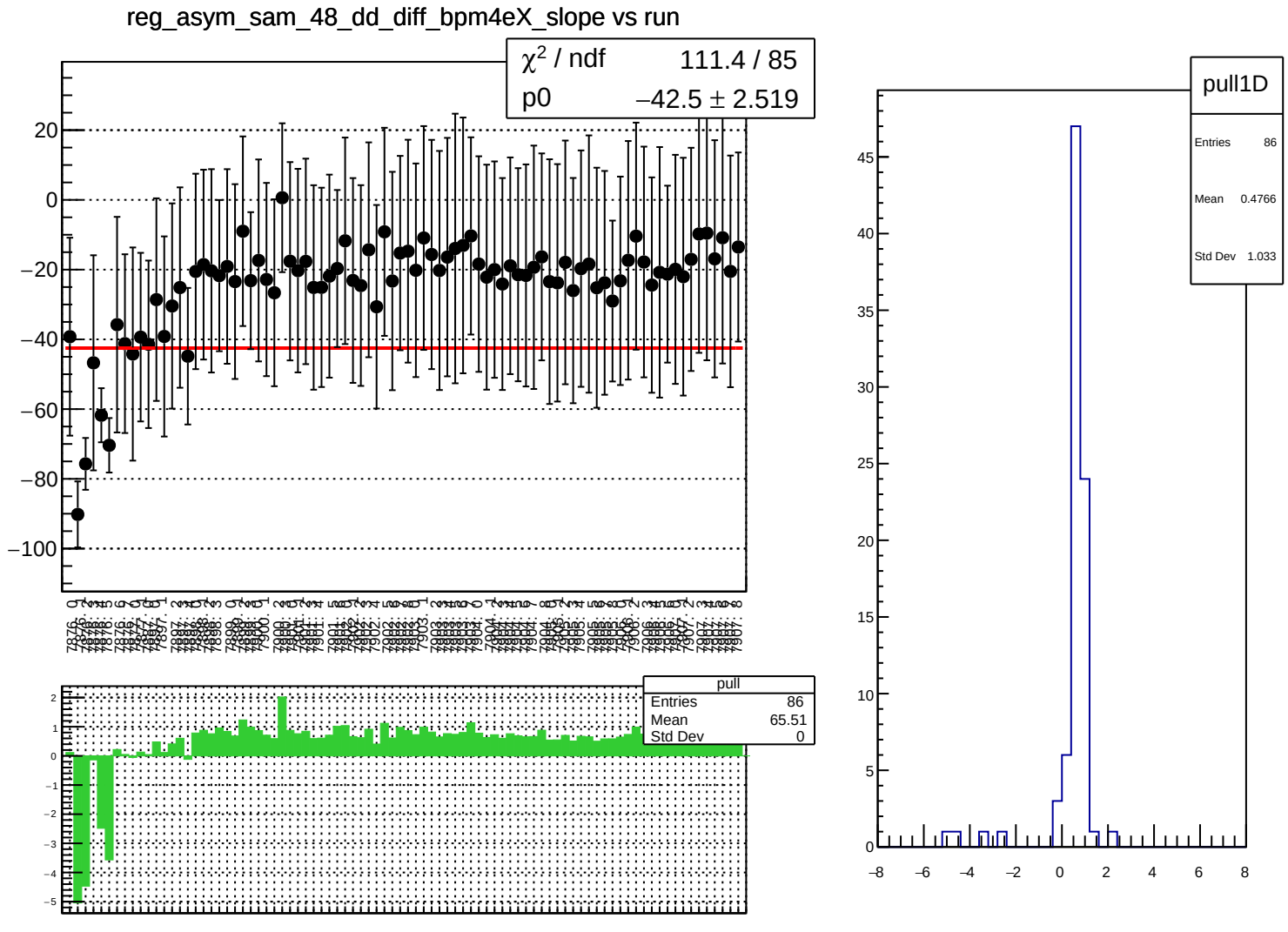

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 171.9 / 85
p0 −70.2 ± 3.168
pull
Entries 86
Mean 63.36
Std Dev 0
pull1D
Entries 86
Mean 0.6191
Std Dev 1.271

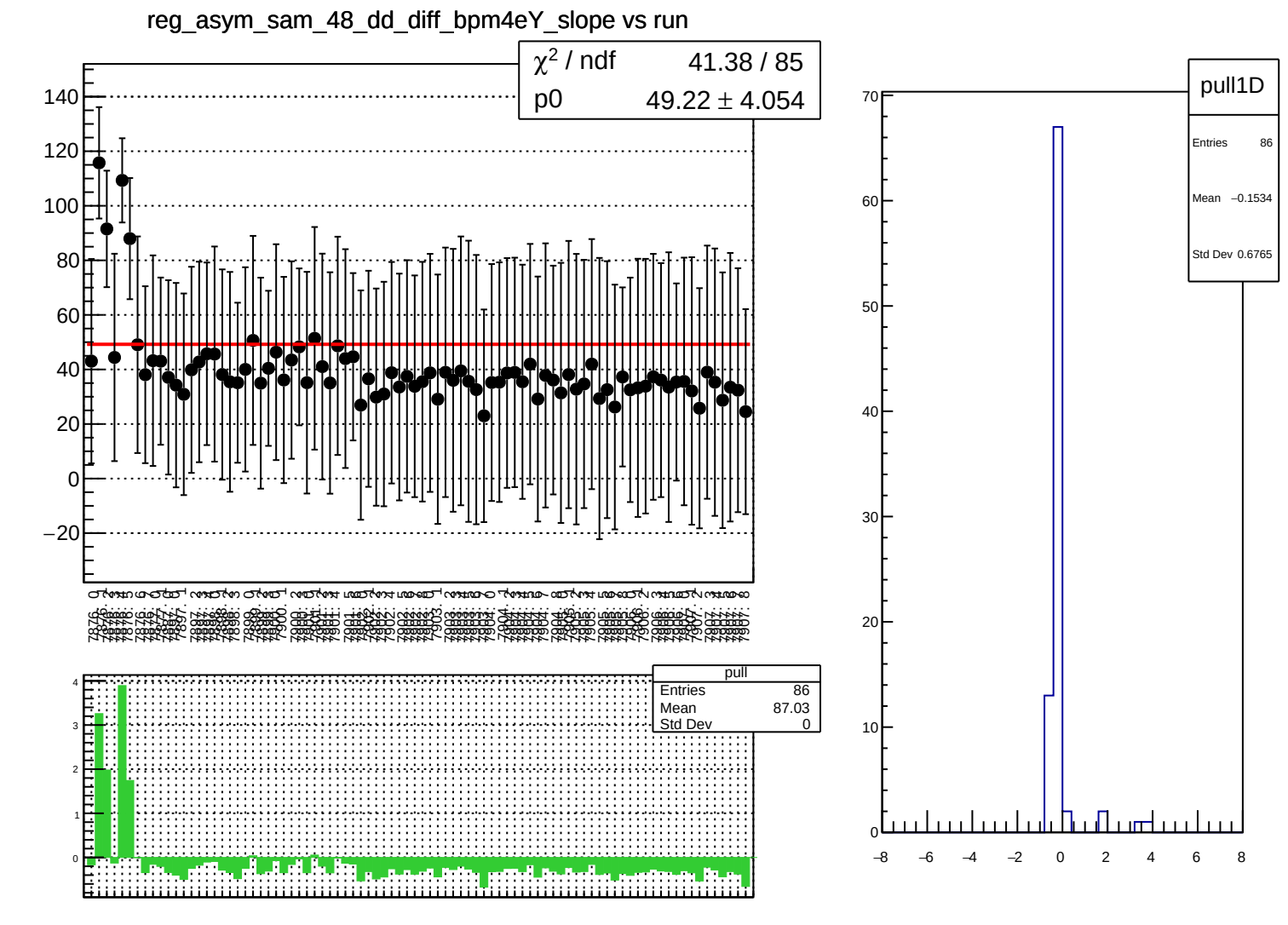

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.2 / 85
p0 62.25 ± 5.118
200
150
100
50
0
−50
pull
Entries 86
Mean 85.19
Std Dev 0
pull1D
Entries 86
Mean −0.201
Std Dev 0.8472
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

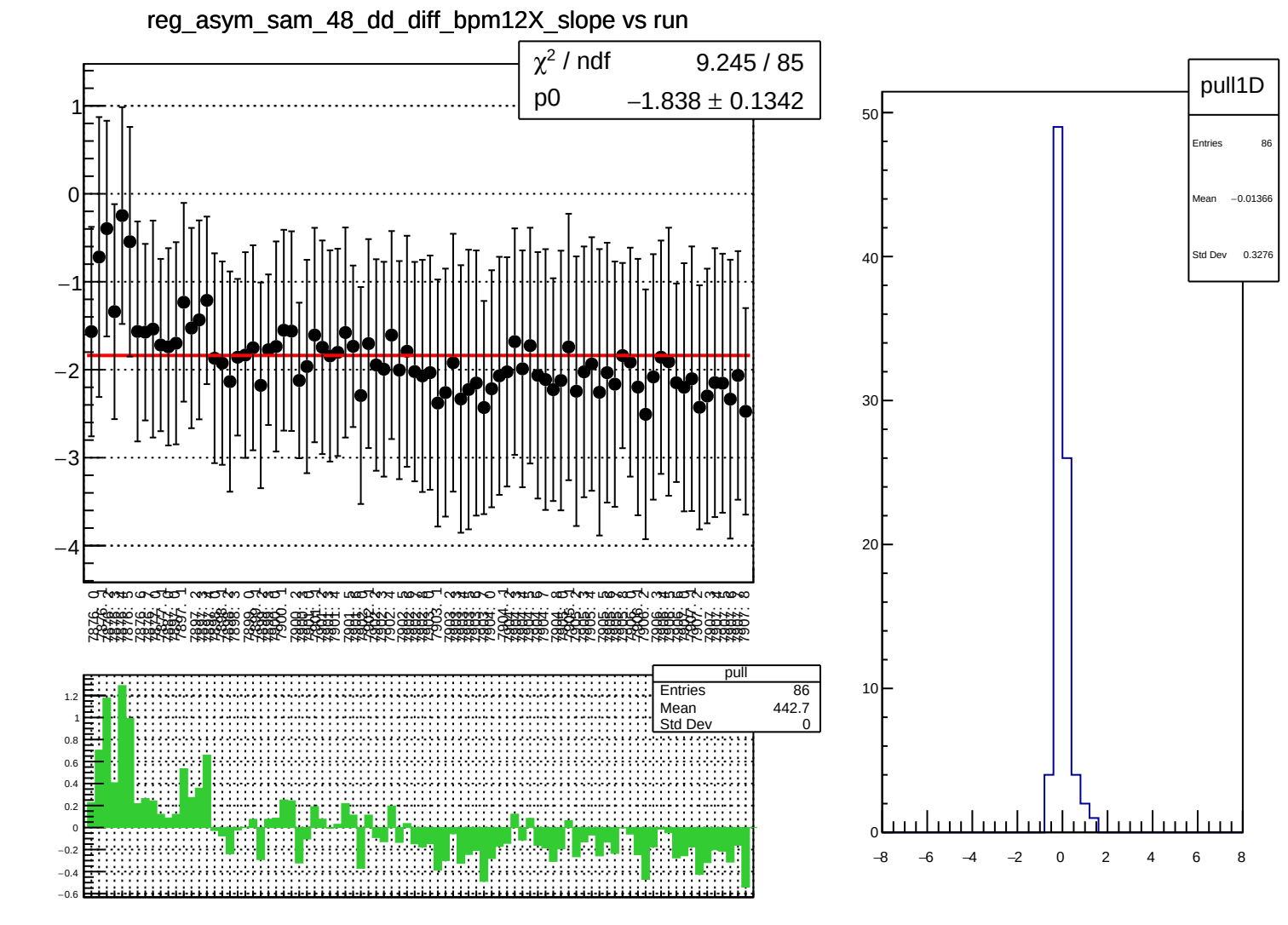

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 13.15 / 85
p0 −2.575 ± 0.1699
pull
Entries 86
Mean 466.9
Std Dev 0
pull1D
Entries 86
Mean −0.01436
Std Dev 0.3907

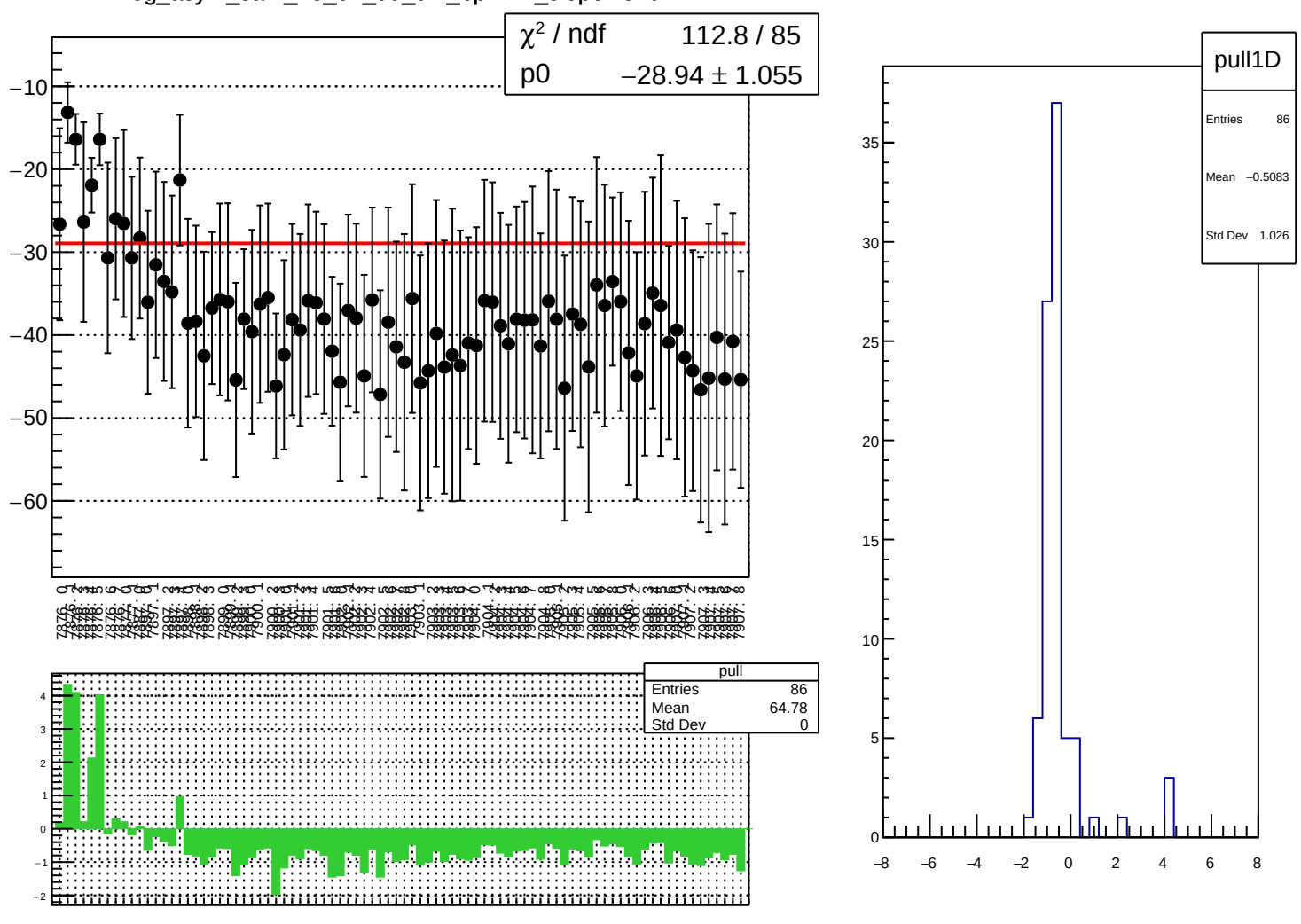

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 91.02 / 85
p0 −56.47 ± 3.115
pull
Entries 86
Mean 69.63
Std Dev 0
pull1D
Entries 86
Mean −0.3969
Std Dev 0.9491

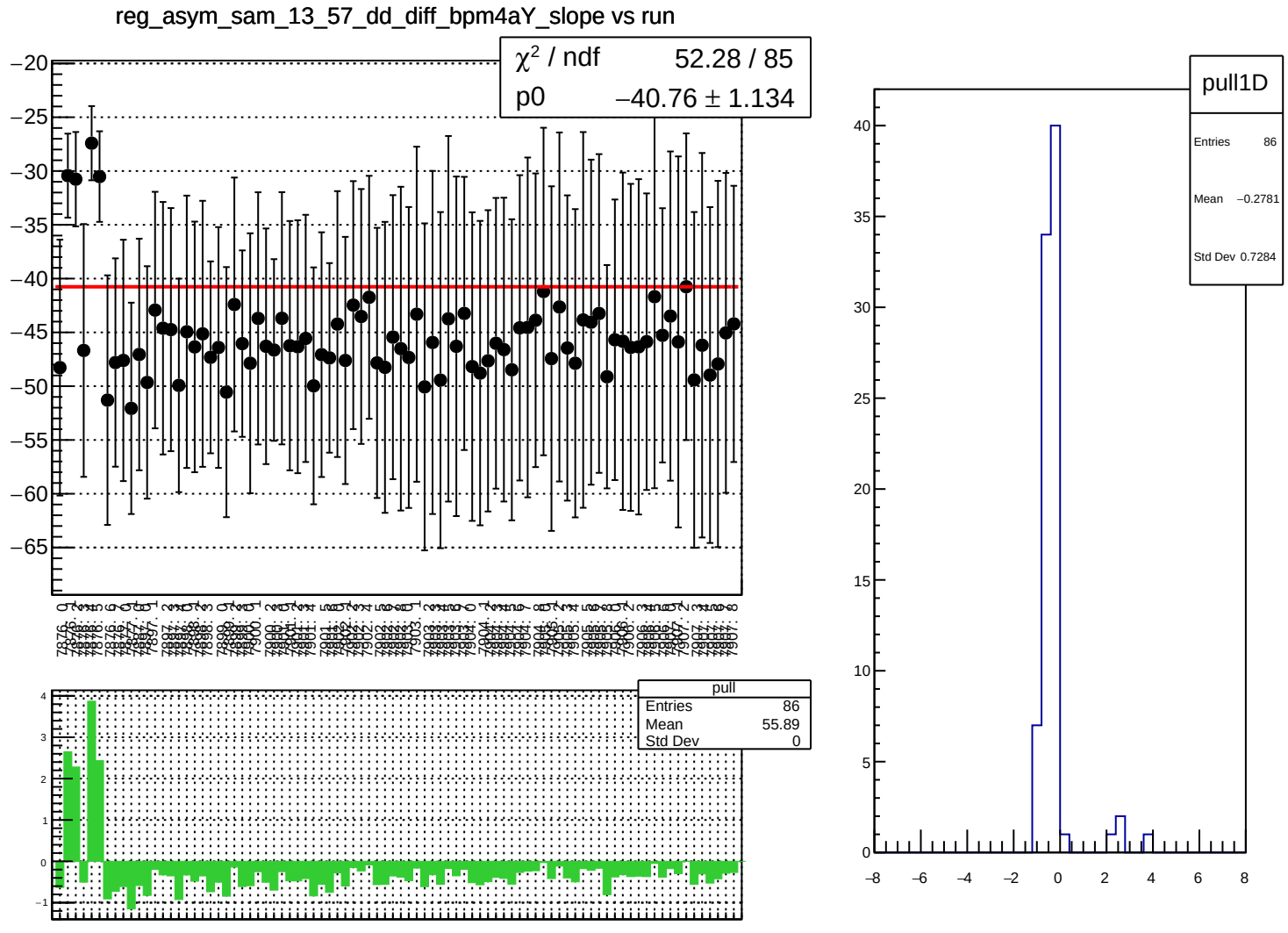

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.4 / 85
p0 59.49 ± 3.302
pull
Entries 86
Mean 72.46
Std Dev 0
pull1D
Entries 86
Mean 0.2625
Std Dev 0.7661

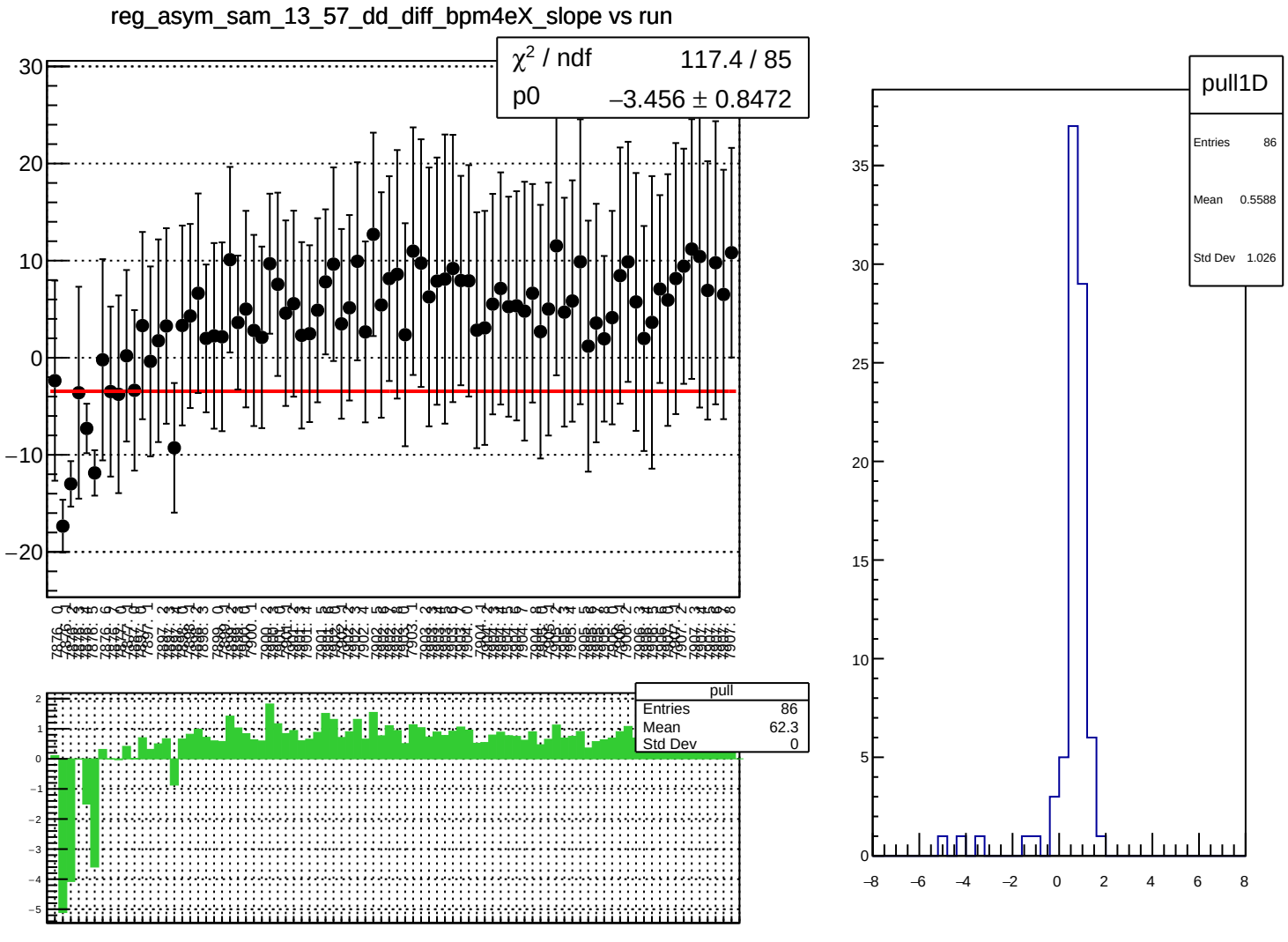

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 111.4 / 85
p0 −42.5 ± 2.519
pull
Entries 86
Mean 65.51
Std Dev 0
pull1D
Entries 86
Mean 0.4766
Std Dev 1.033

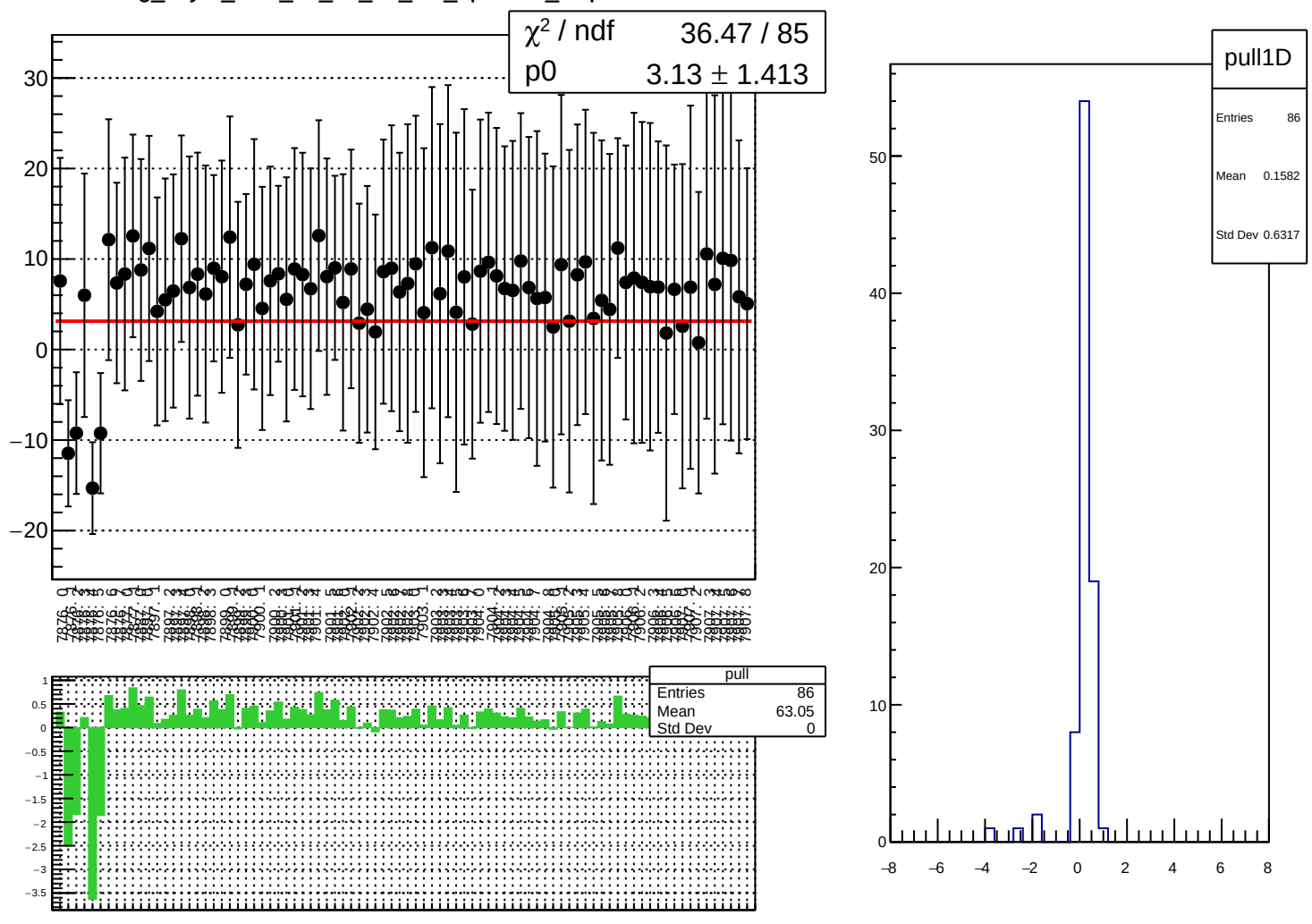

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.38 / 85
p0 49.22 ± 4.054
pull
Entries 86
Mean 87.03
Std Dev 0
pull1D
Entries 86
Mean −0.1534
Std Dev 0.6765

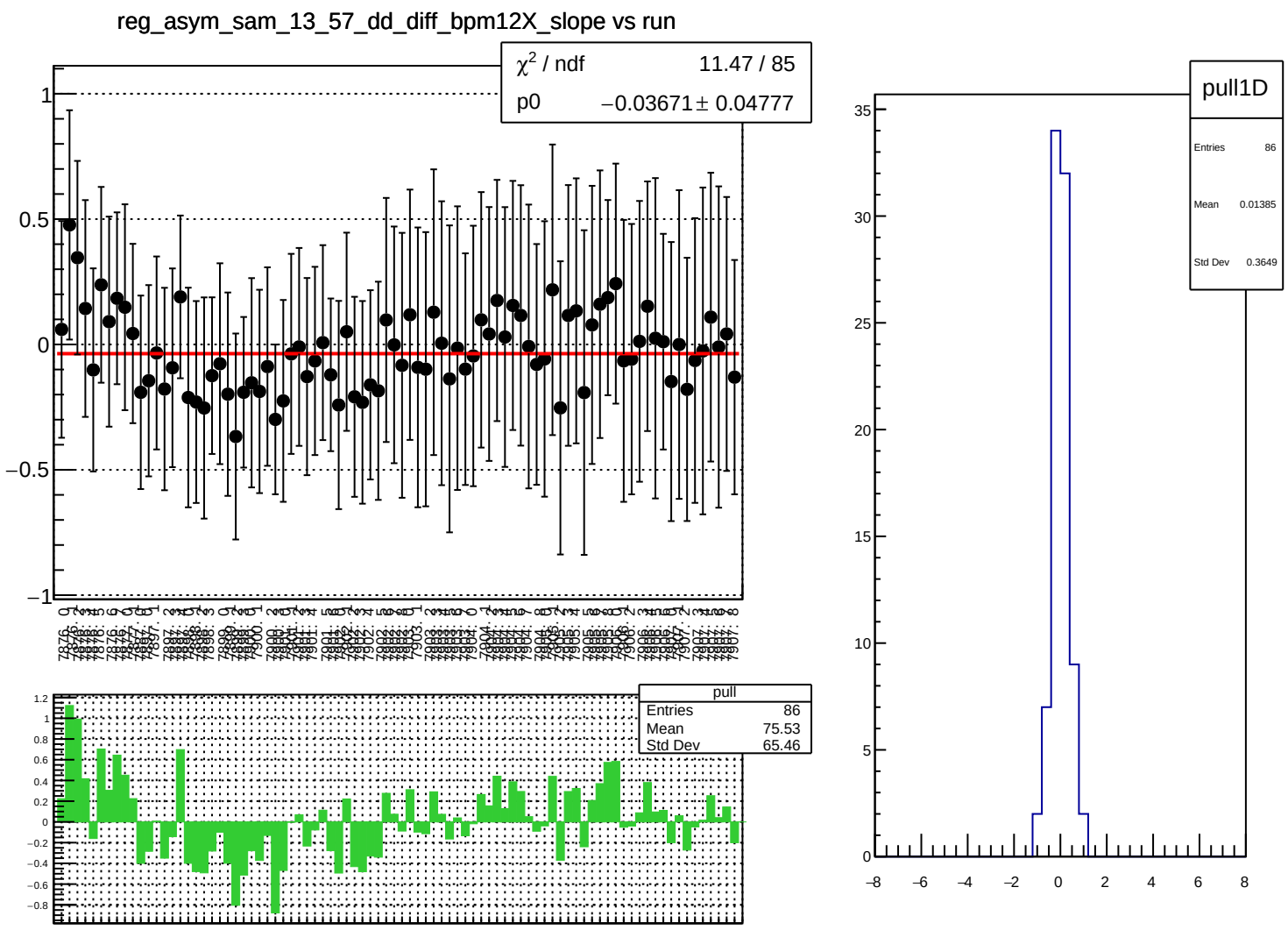

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.245 / 85
p0 −1.838 ± 0.1342
pull
Entries 86
Mean 442.7
Std Dev 0
pull1D
Entries 86
Mean −0.01366
Std Dev 0.3276

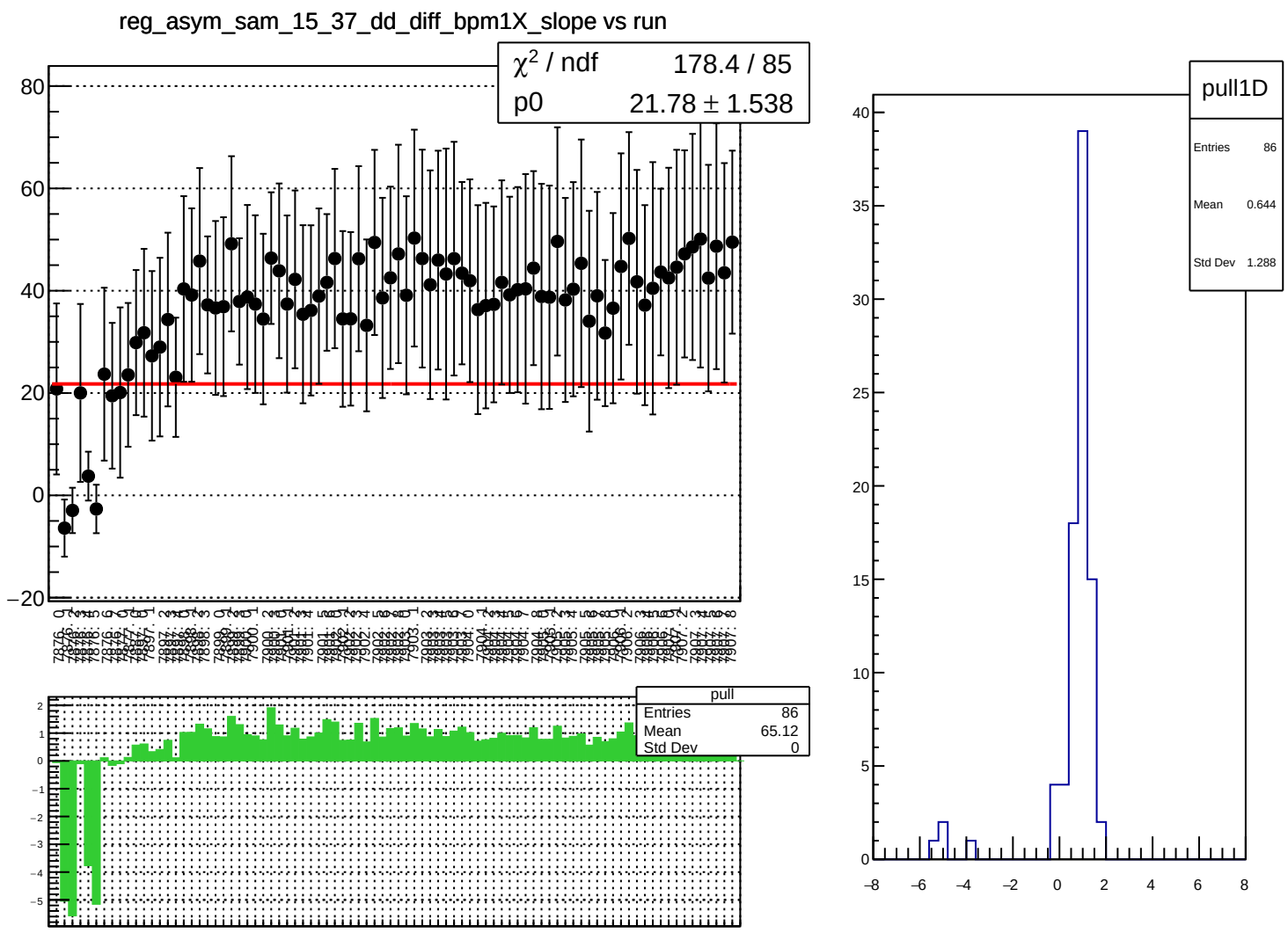

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 112.8 / 85
p0 −28.94 ± 1.055
pull
Entries 86
Mean 64.78
Std Dev 0
pull1D
Entries 86
Mean −0.5083
Std Dev 1.026

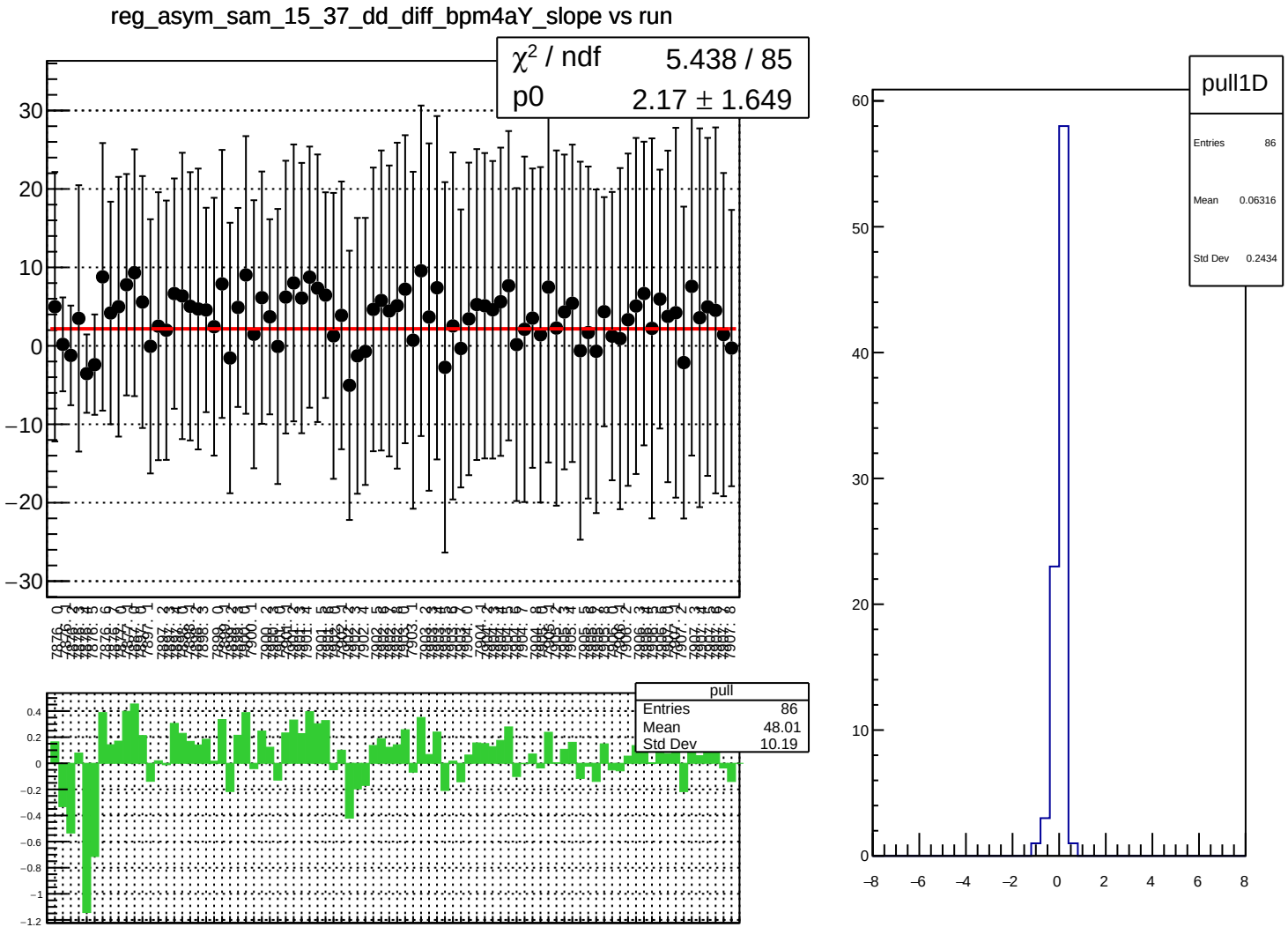

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.28 / 85
p0 −40.76 ± 1.134
pull
Entries 86
Mean 55.89
Std Dev 0
pull1D
Entries 86
Mean −0.2781
Std Dev 0.7284

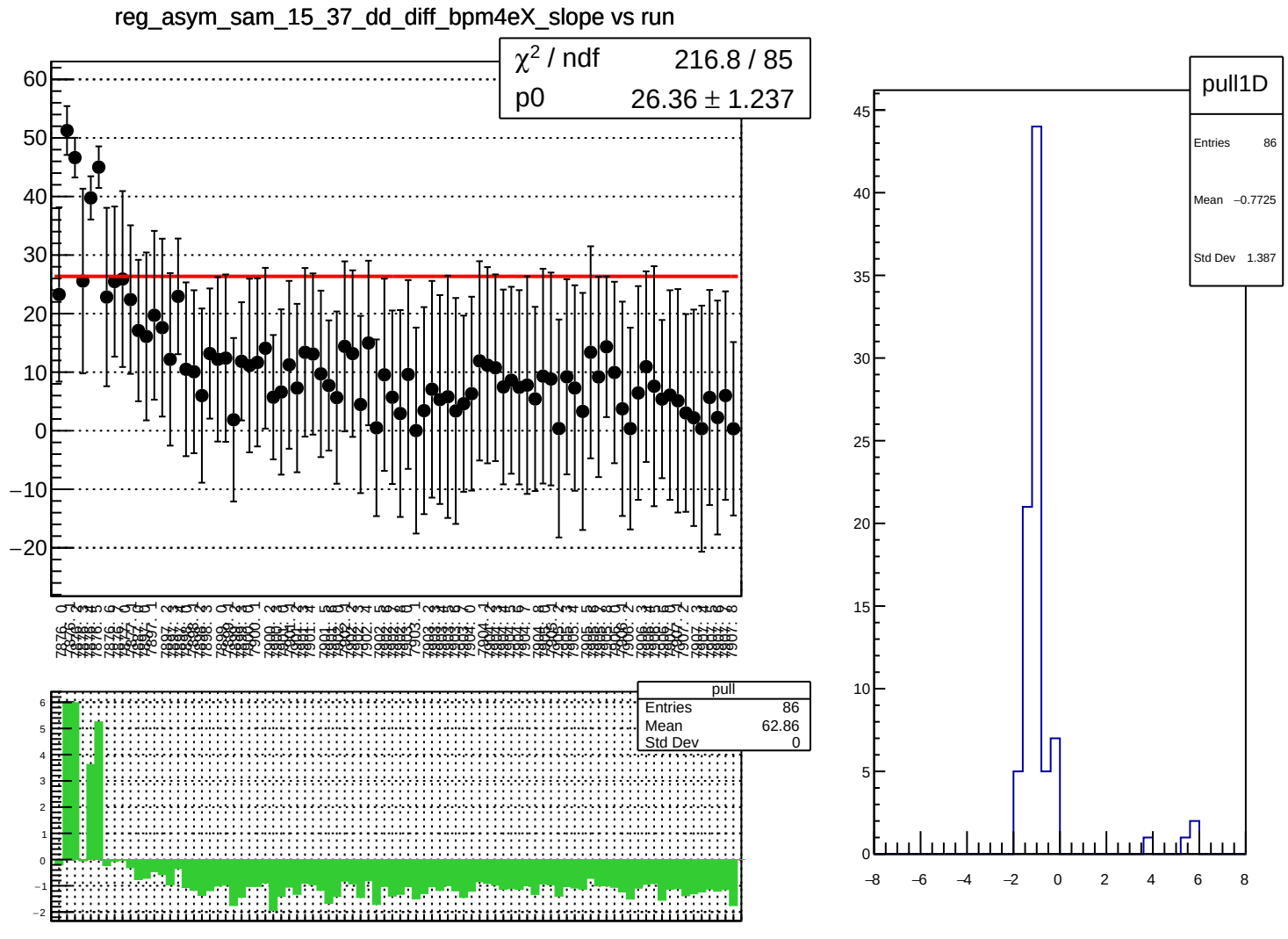

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.4 / 85
p0 −3.456 ± 0.8472
pull
Entries 86
Mean 62.3
Std Dev 0
pull1D
Entries 86
Mean 0.5588
Std Dev 1.026

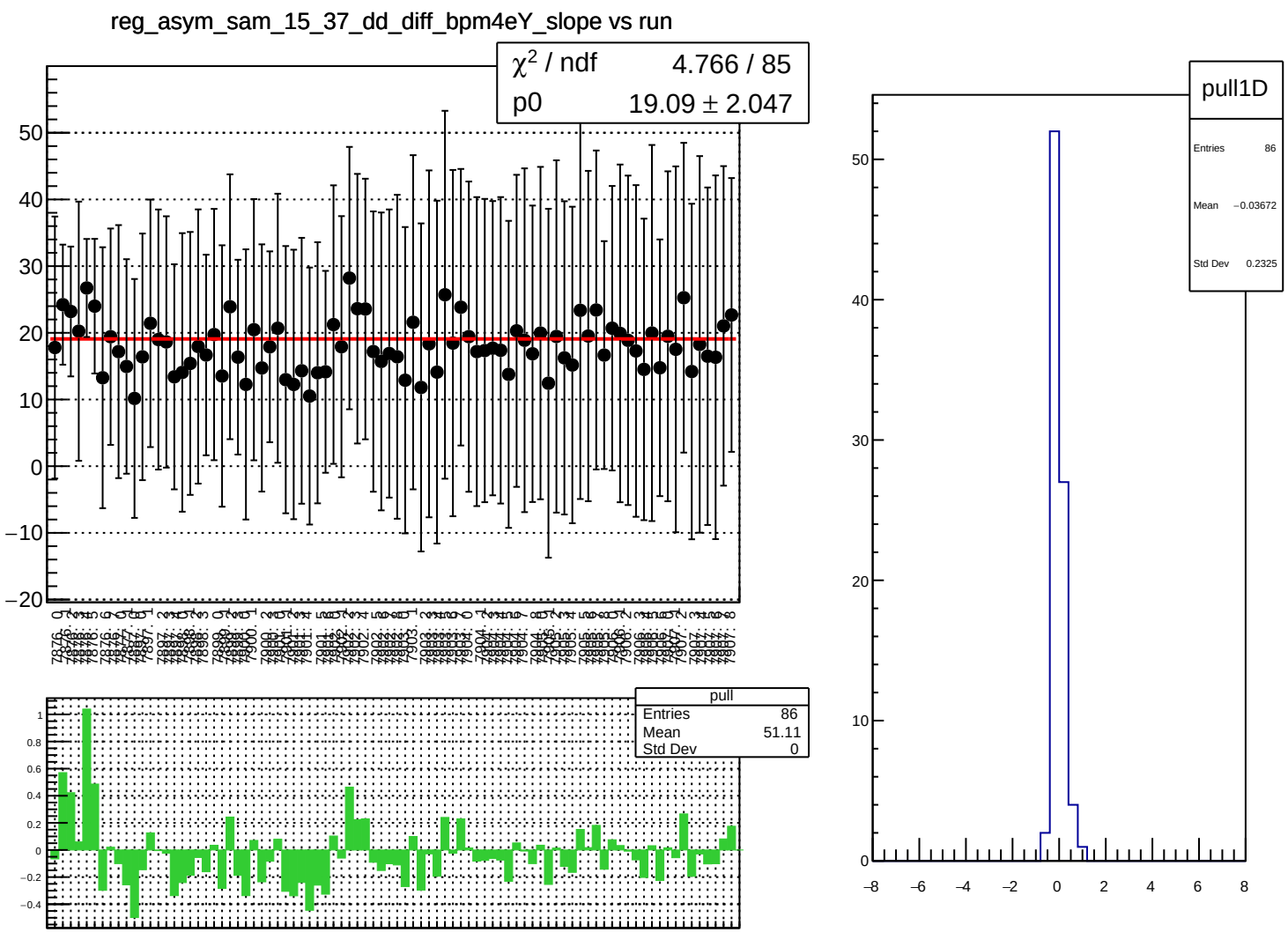

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.47 / 85
p0 3.13 ± 1.413
pull
Entries 86
Mean 63.05
Std Dev 0
pull1D
Entries 86
Mean 0.1582
Std Dev 0.6317

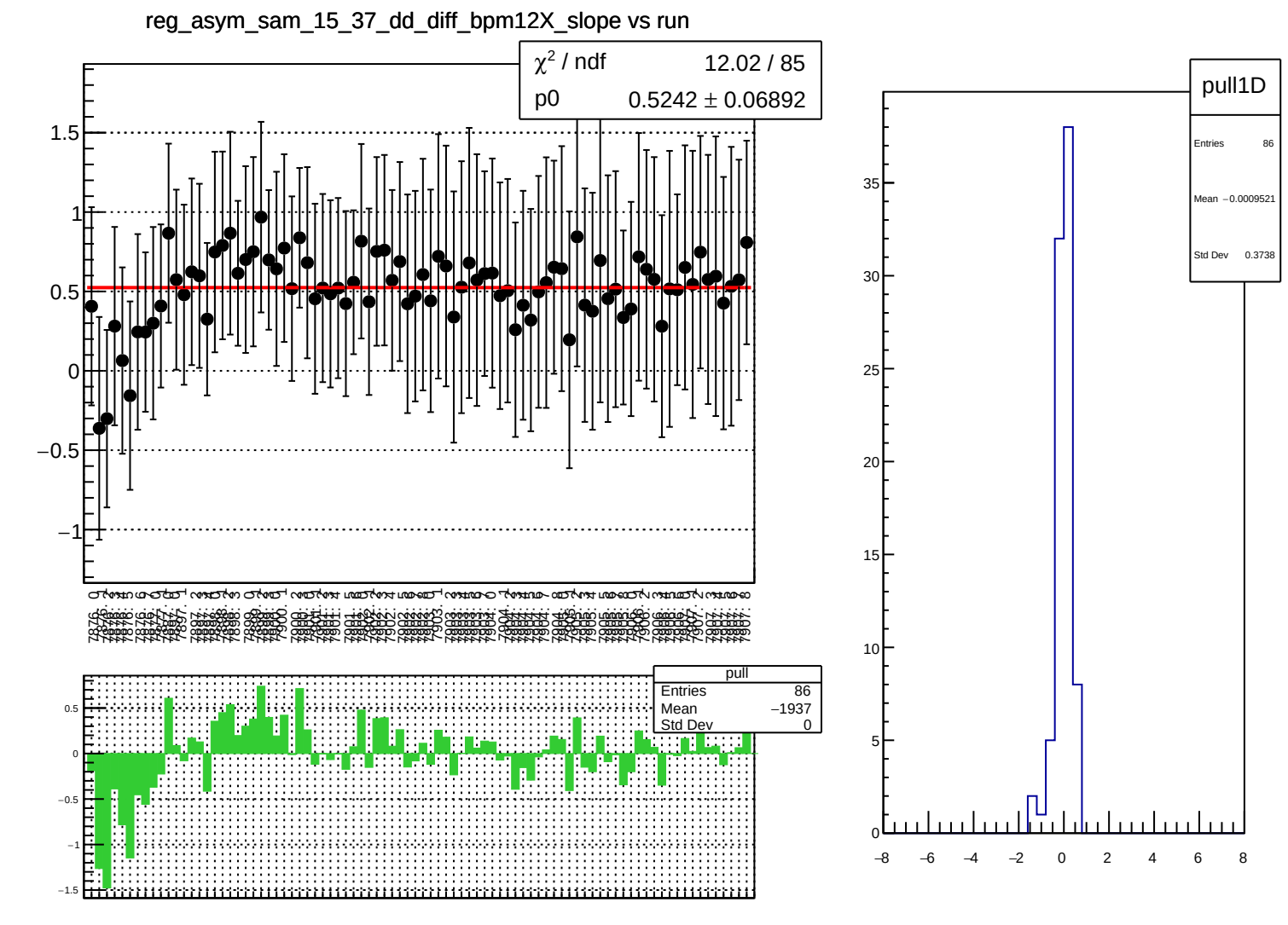

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 11.47 / 85
p0 −0.03671 ± 0.04777
pull
Entries 86
Mean 75.53
Std Dev 65.46
pull1D
Entries 86
Mean 0.01385
Std Dev 0.3649

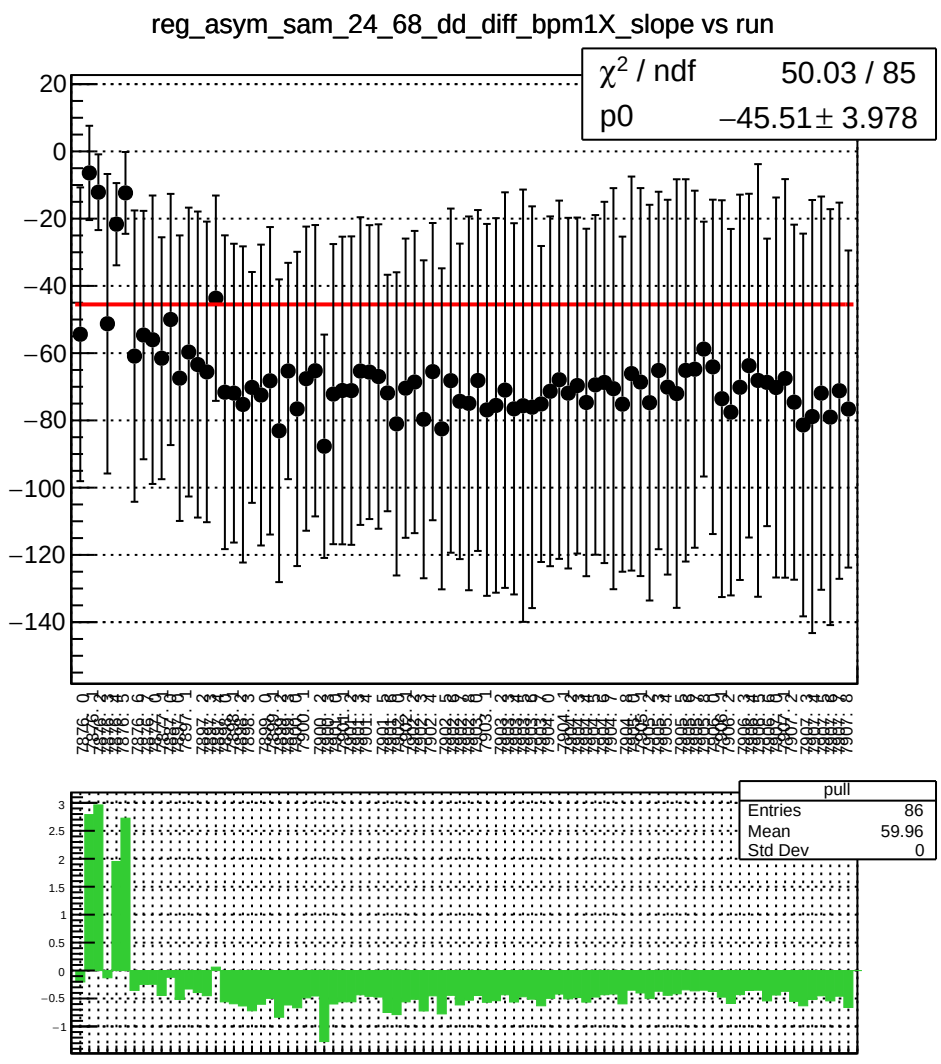

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 178.4 / 85
p0 21.78 ± 1.538
pull
Entries 86
Mean 65.12
Std Dev 0
pull1D
Entries 86
Mean 0.644
Std Dev 1.288

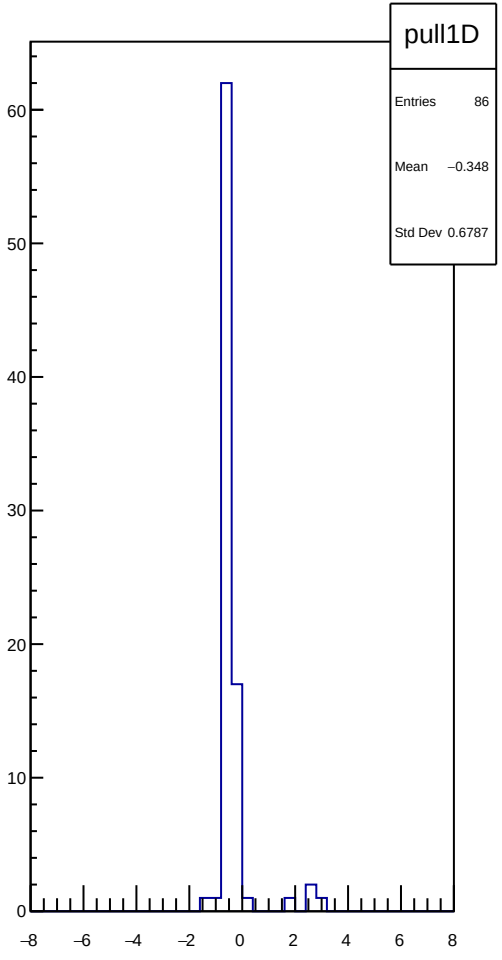

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.438 / 85
p0 2.17 ± 1.649
pull
Entries 86
Mean 48.01
Std Dev 10.19
pull1D
Entries 86
Mean 0.06316
Std Dev 0.2434

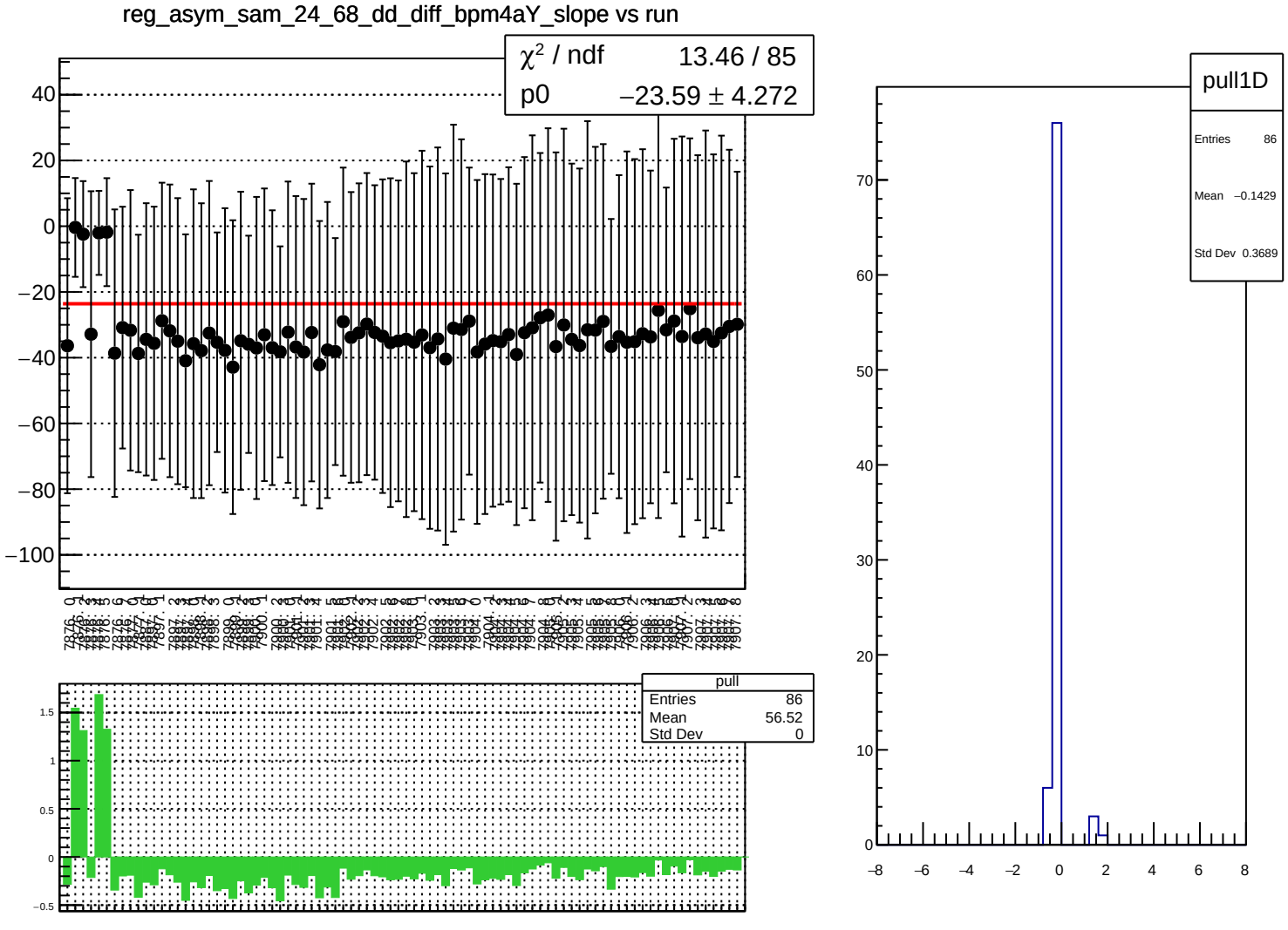

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 216.8 / 85
p0 26.36 ± 1.237
pull
Entries 86
Mean 62.86
Std Dev 0
pull1D
Entries 86
Mean −0.7725
Std Dev 1.387

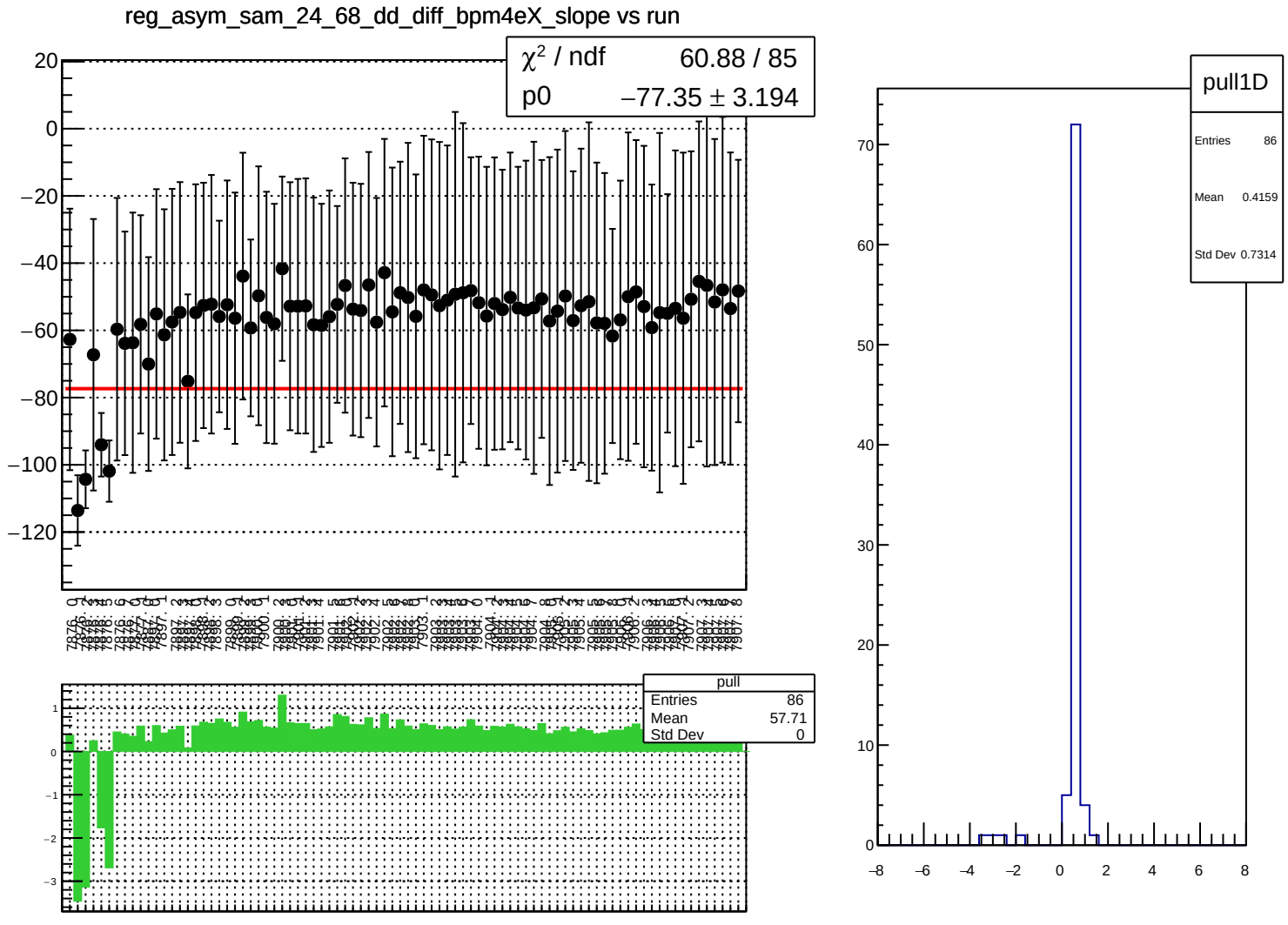

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.766 / 85
p0 19.09 ± 2.047
pull
Entries 86
Mean 51.11
Std Dev 0
pull1D
Entries 86
Mean −0.03672
Std Dev 0.2325

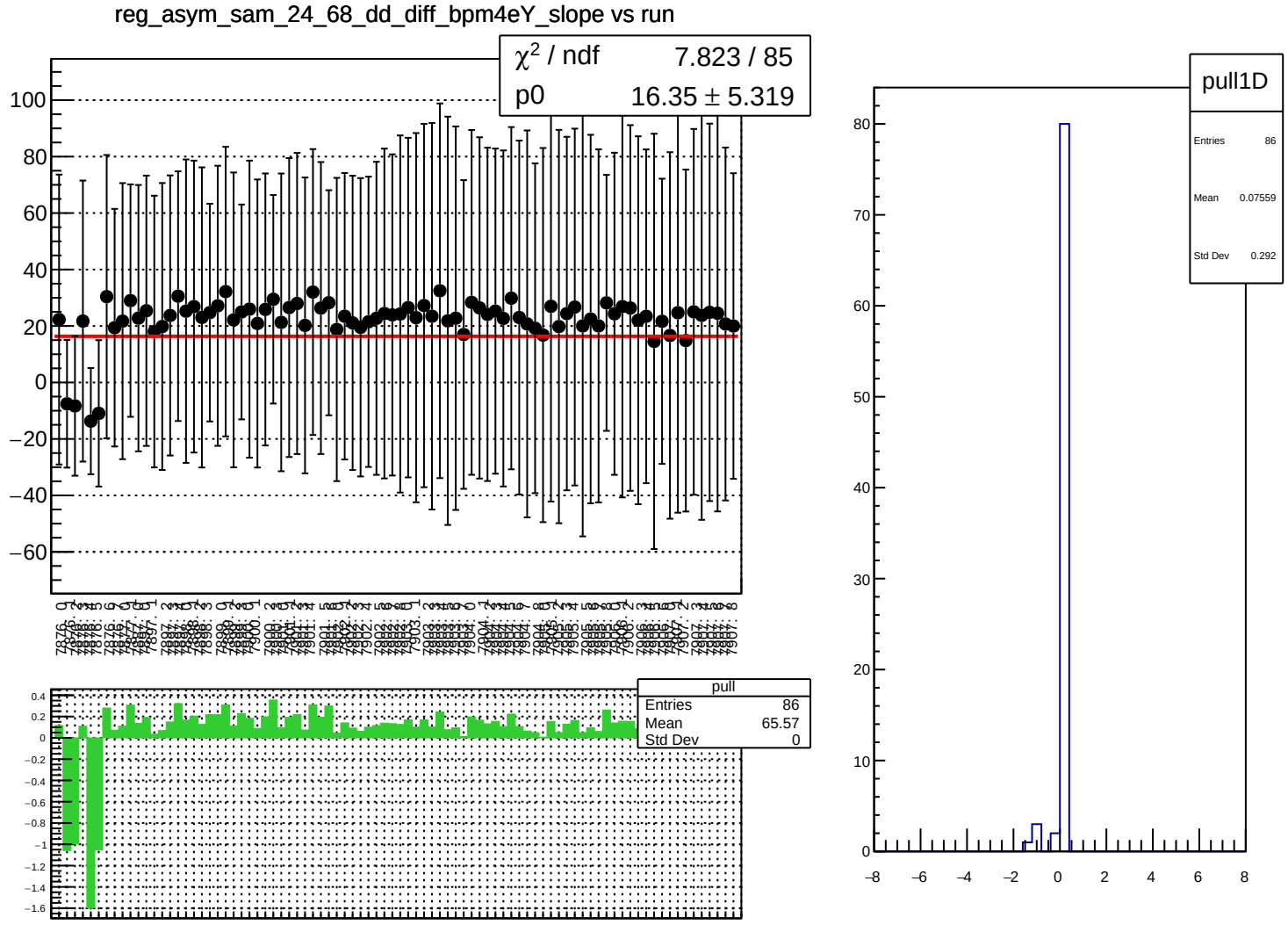

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 12.02 / 85
p0 0.5242 ± 0.06892
pull
Entries 86
Mean −1937
Std Dev 0
pull1D
Entries 86
Mean −0.0009521
Std Dev 0.3738

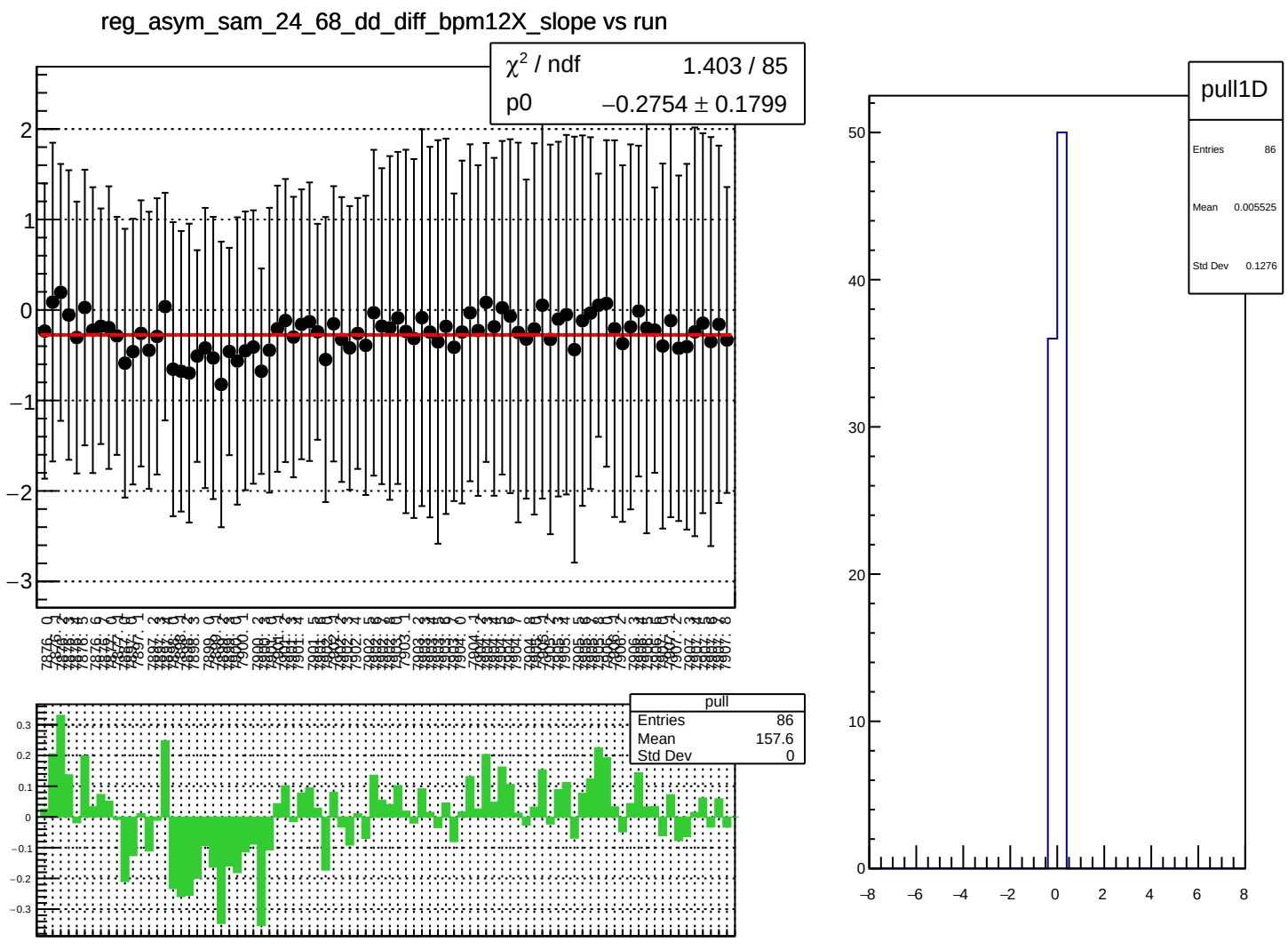

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 50.03 / 85
p0 −45.51 ± 3.978
pull
Entries 86
Mean 59.96
Std Dev 0

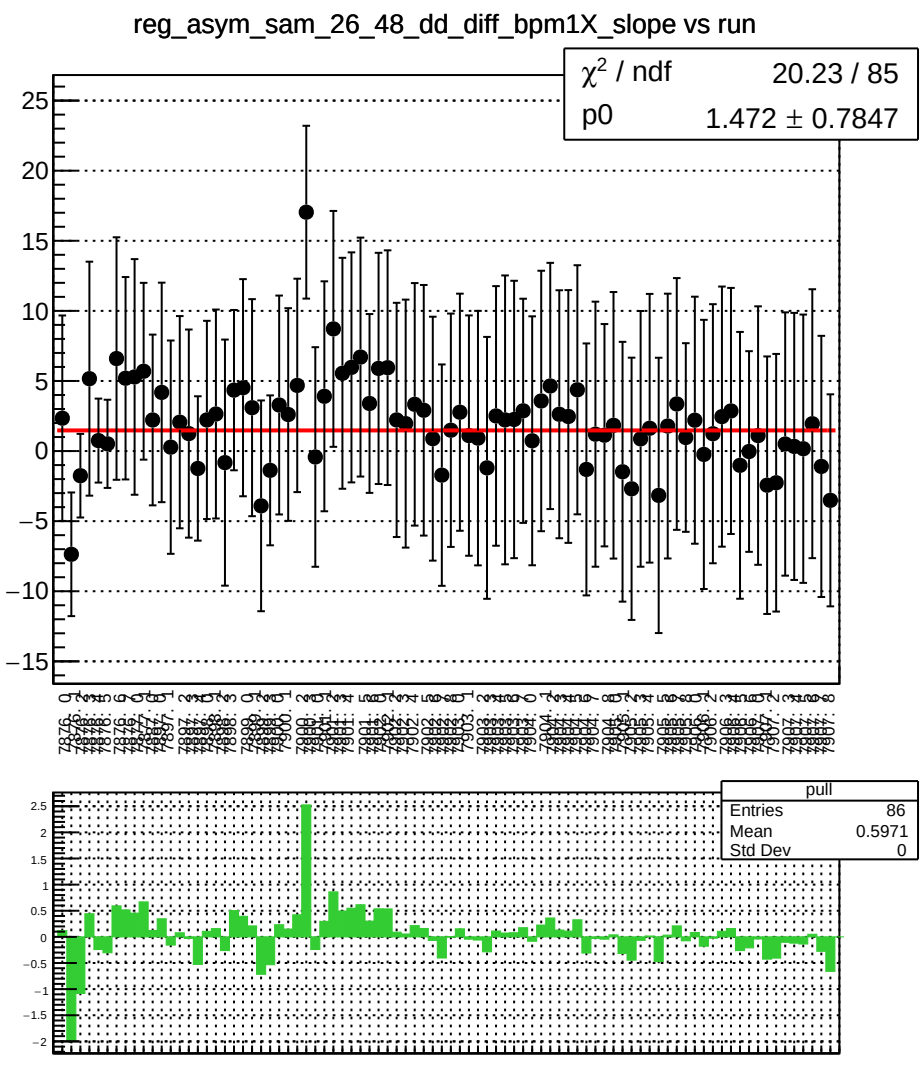

pull1D
Entries 86
Mean −0.348
Std Dev 0.6787

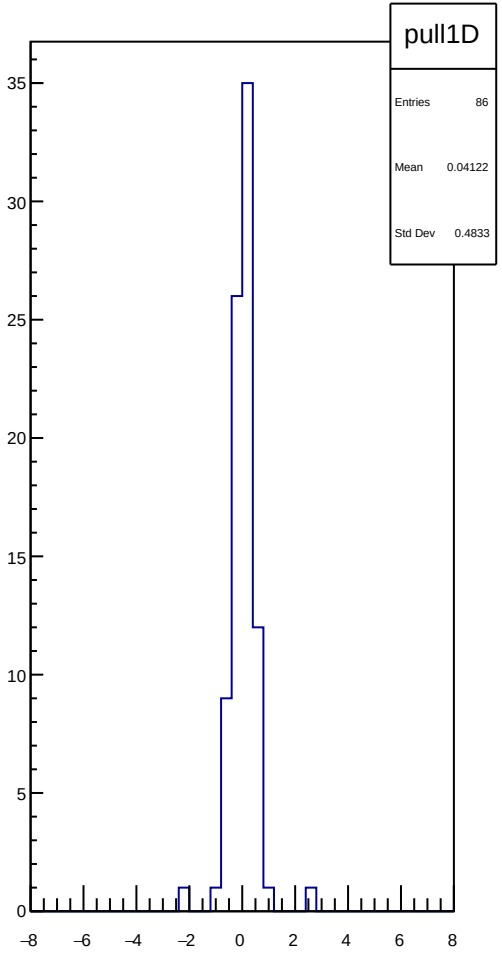

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.46 / 85
p0 −23.59 ± 4.272
pull
Entries 86
Mean 56.52
Std Dev 0
pull1D
Entries 86
Mean −0.1429
Std Dev 0.3689

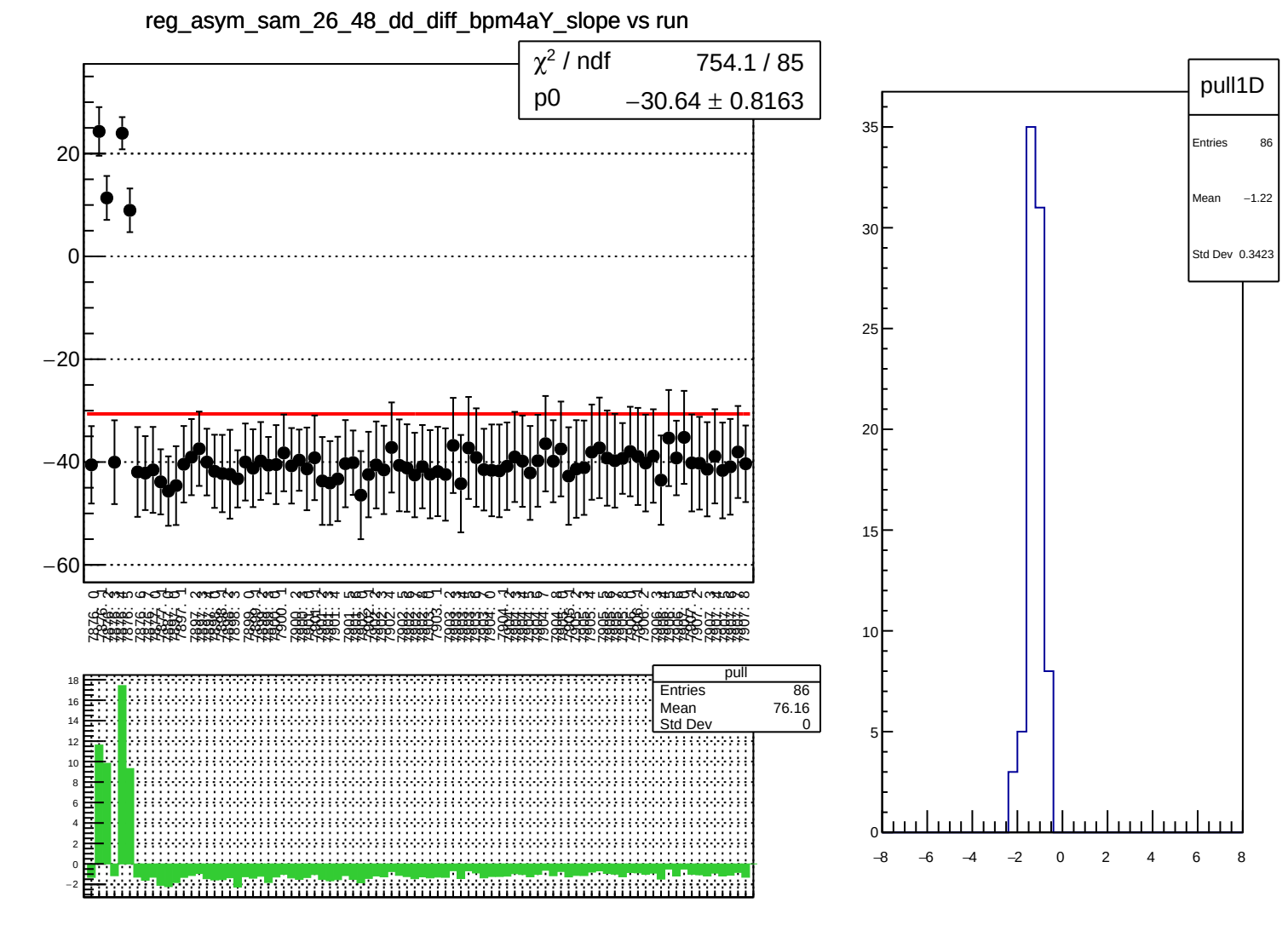

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.88 / 85
p0 −77.35 ± 3.194
pull
Entries 86
Mean 57.71
Std Dev 0
pull1D
Entries 86
Mean 0.4159
Std Dev 0.7314

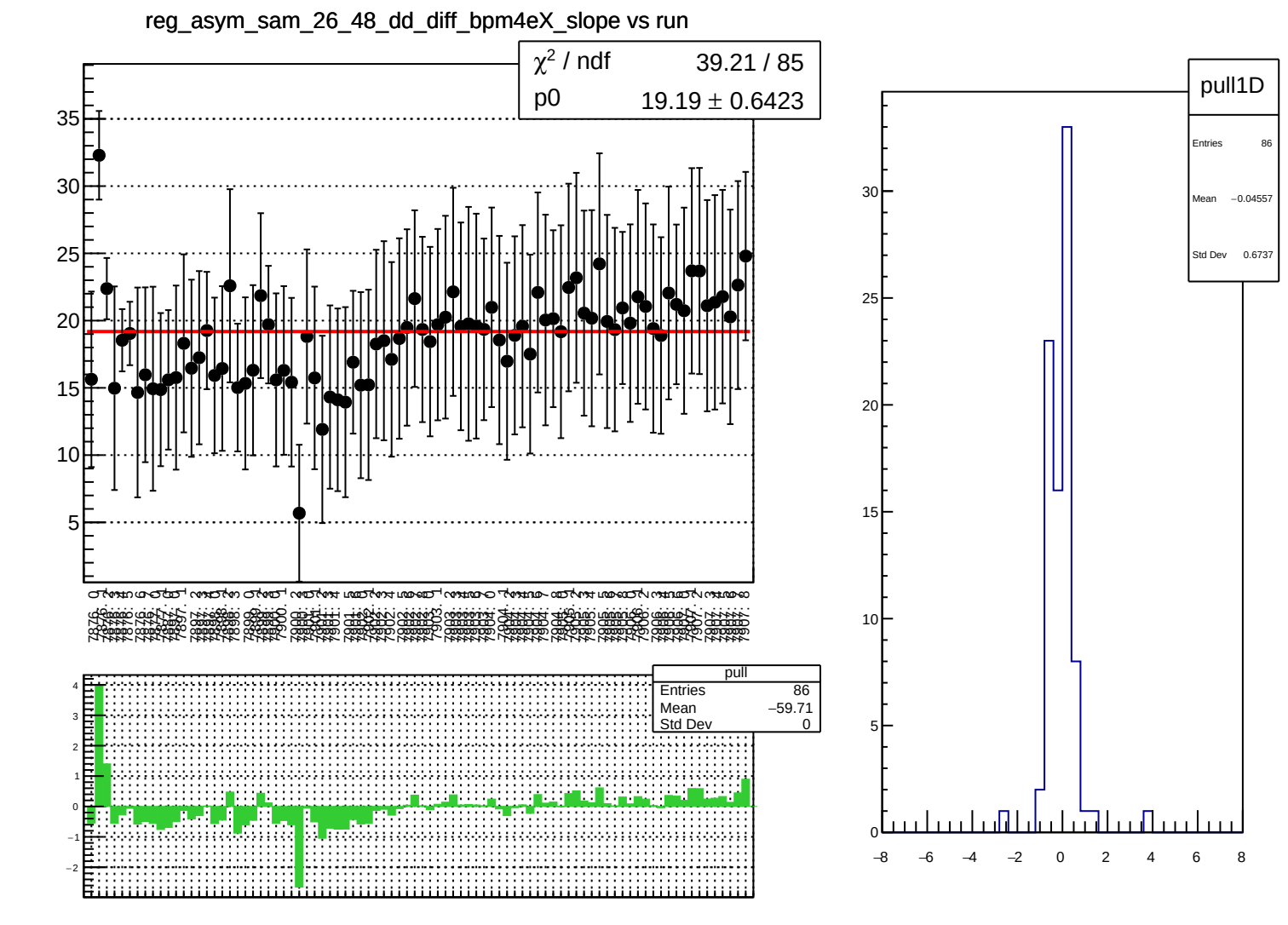

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.823 / 85
p0 16.35 ± 5.319
pull
Entries 86
Mean 65.57
Std Dev 0
pull1D
Entries 86
Mean 0.07559
Std Dev 0.292

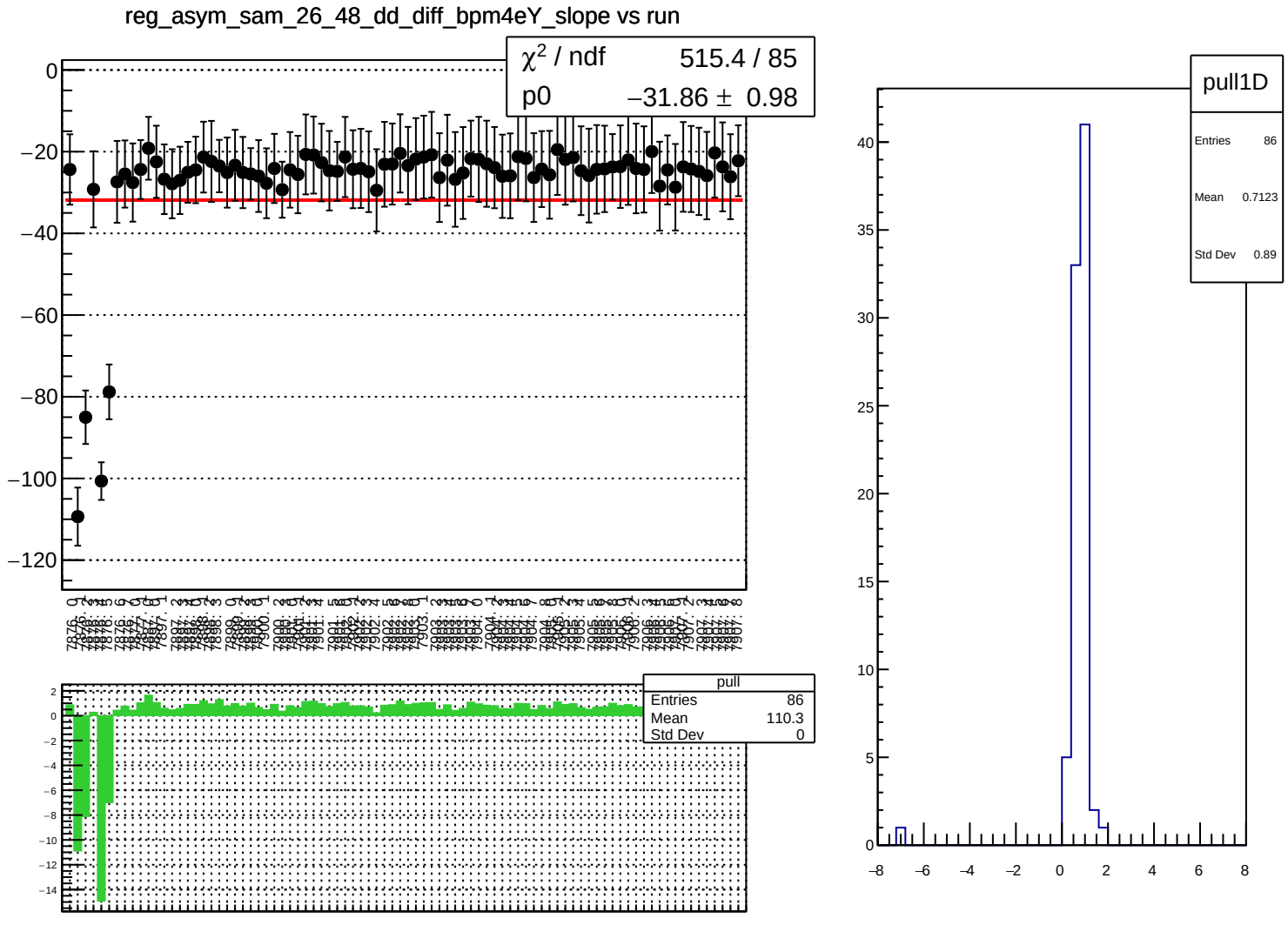

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1.403 / 85
p0 −0.2754 ± 0.1799
pull
Entries 86
Mean 157.6
Std Dev 0
pull1D
Entries 86
Mean 0.005525
Std Dev 0.1276

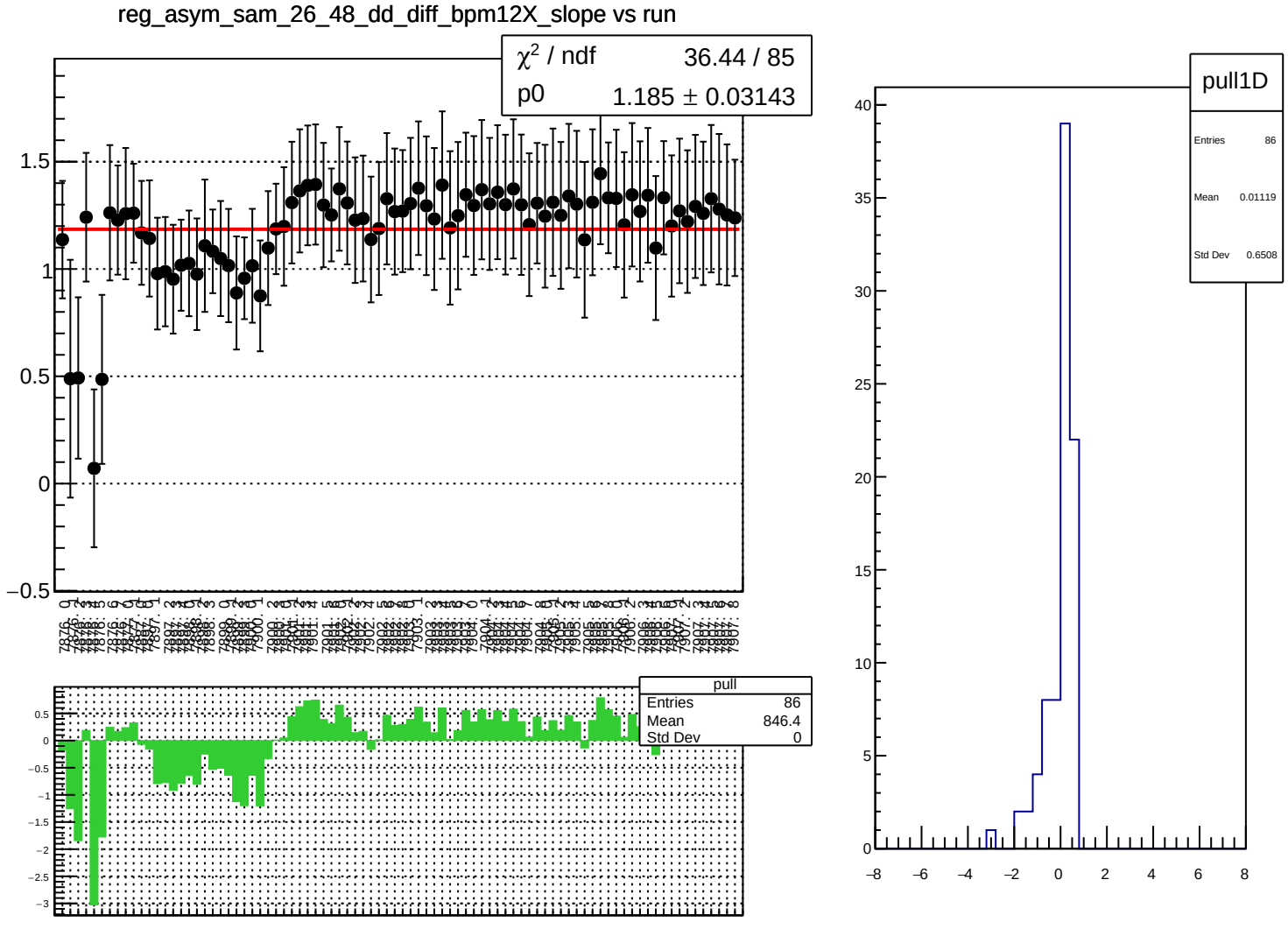

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 20.23 / 85
p0 1.472 ± 0.7847
pull
Entries 86
Mean 0.5971
Std Dev 0

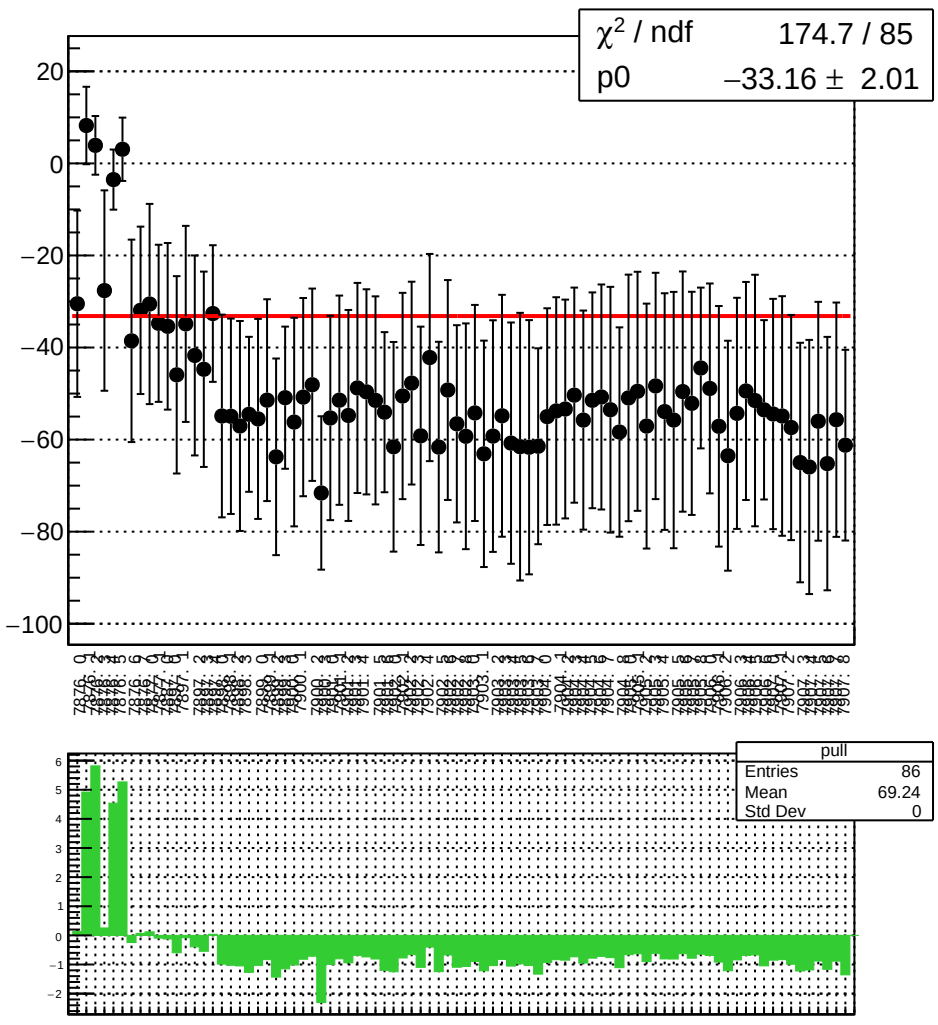

pull1D
Entries 86
Mean 0.04122
Std Dev 0.4833

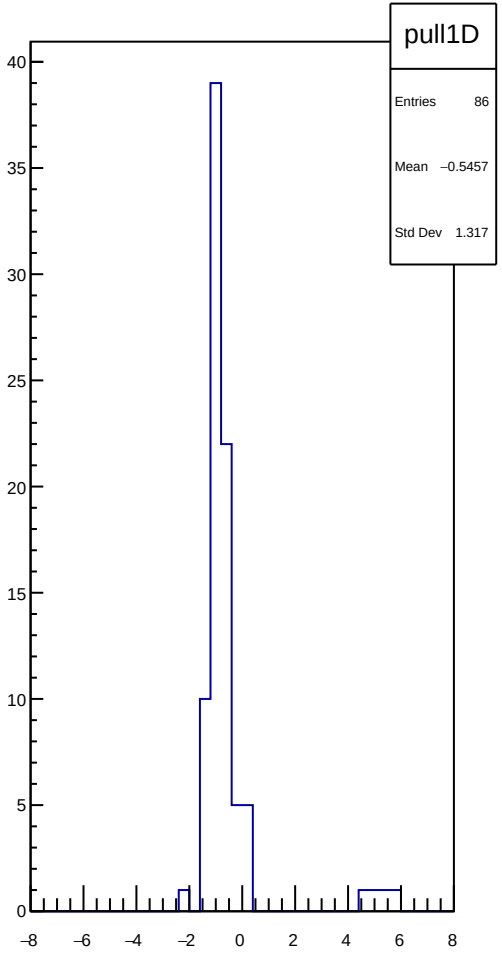

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 754.1 / 85
p0 −30.64 ± 0.8163
pull
Entries 86
Mean 76.16
Std Dev 0
pull1D
Entries 86
Mean −1.22
Std Dev 0.3423

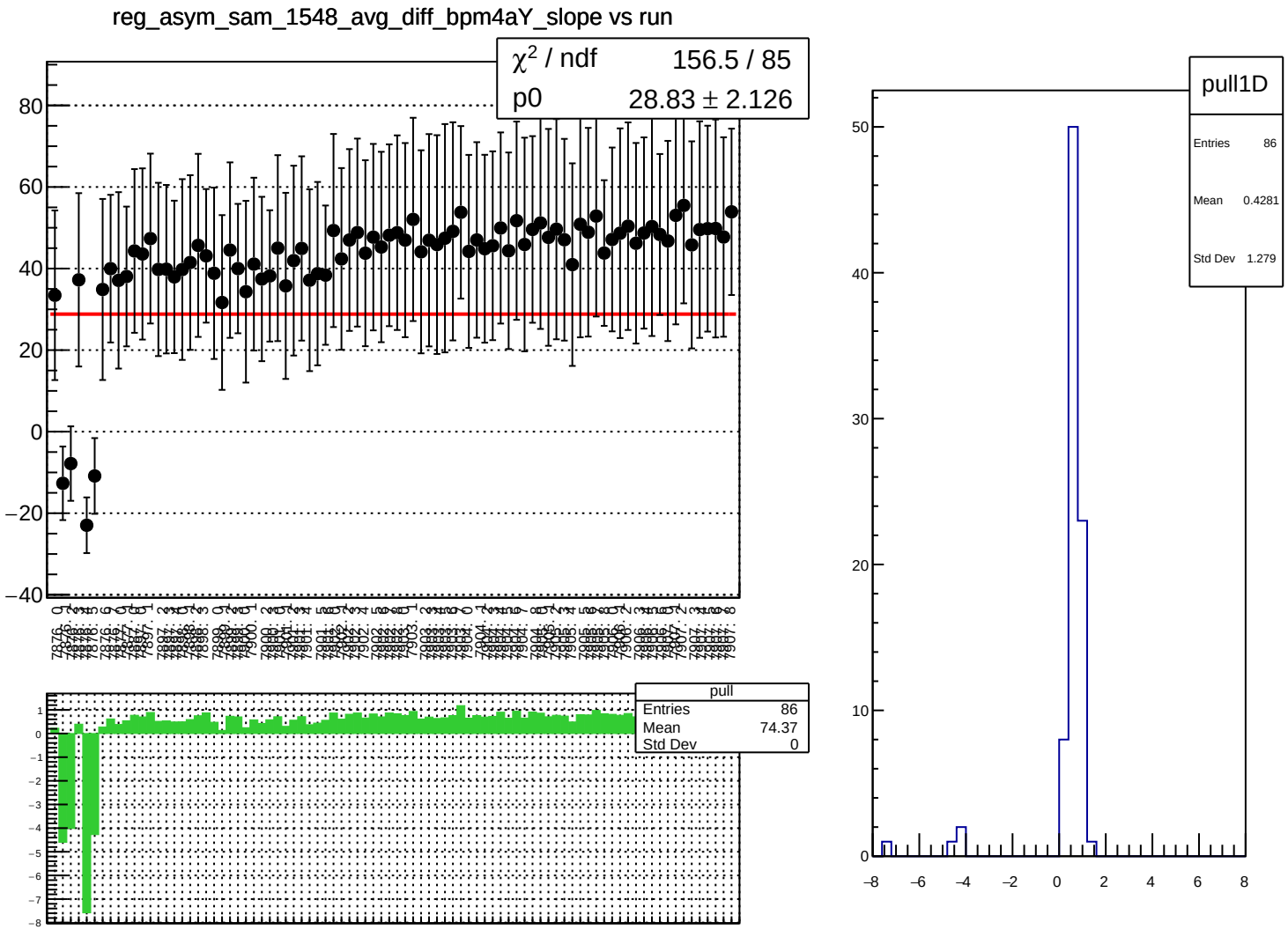

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.21 / 85
p0 19.19 ± 0.6423
pull
Entries 86
Mean −59.71
Std Dev 0
pull1D
Entries 86
Mean −0.04557
Std Dev 0.6737

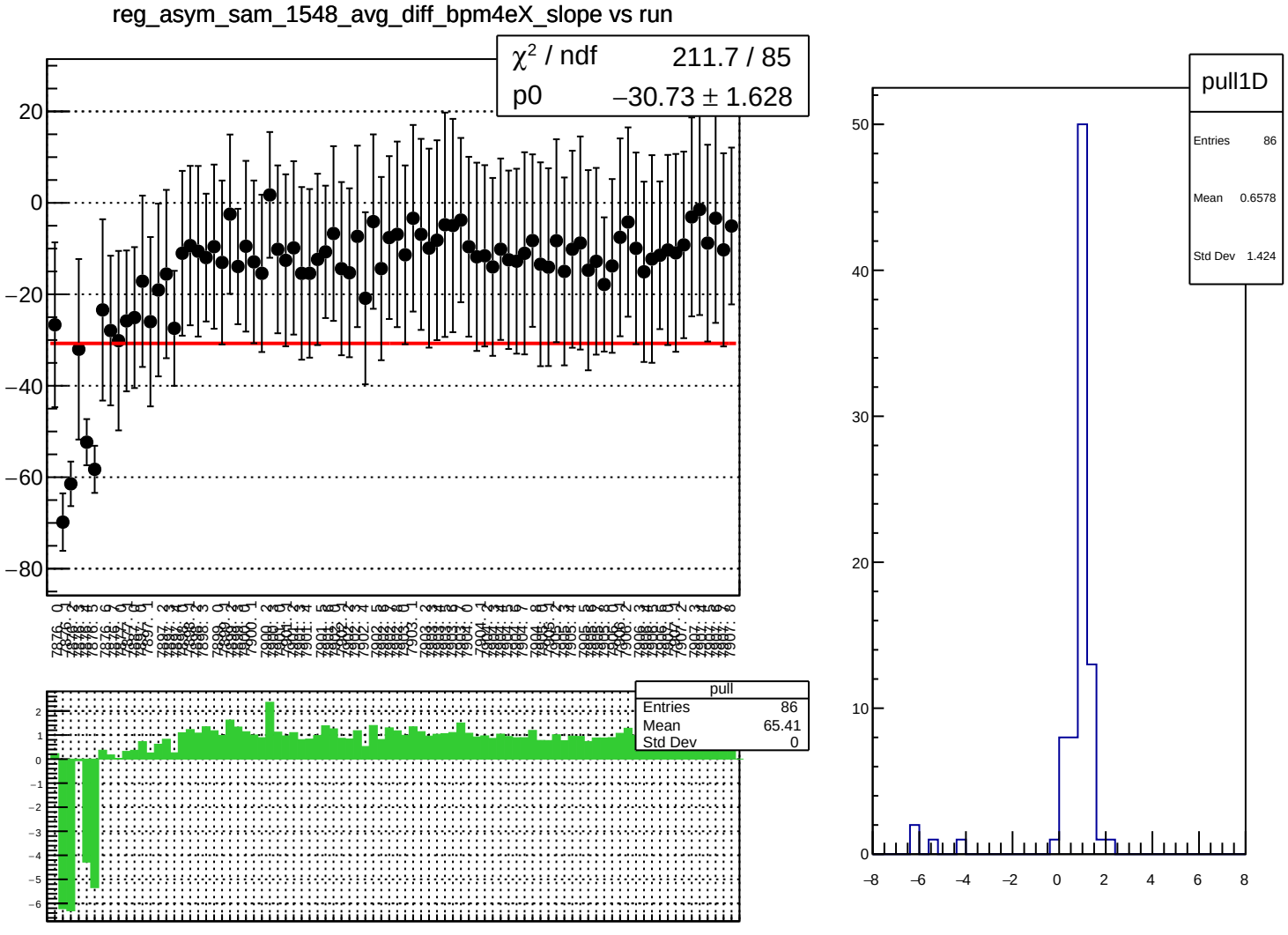

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 515.4 / 85
p0 −31.86 ± 0.98
pull
Entries 86
Mean 110.3
Std Dev 0
pull1D
Entries 86
Mean 0.7123
Std Dev 0.89

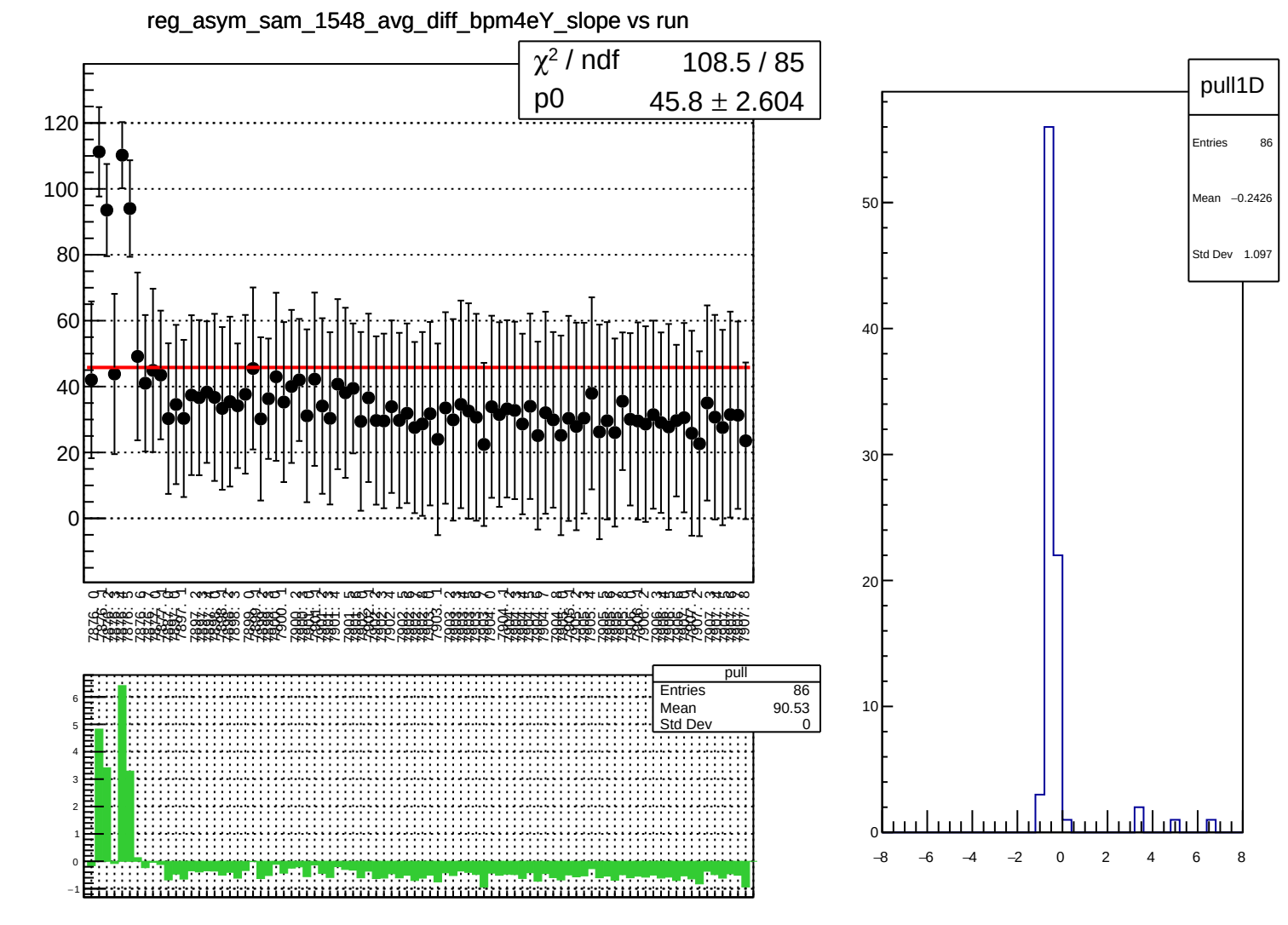

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 36.44 / 85
p0 1.185 ± 0.03143
pull
Entries 86
Mean 846.4
Std Dev 0
pull1D
Entries 86
Mean 0.01119
Std Dev 0.6508

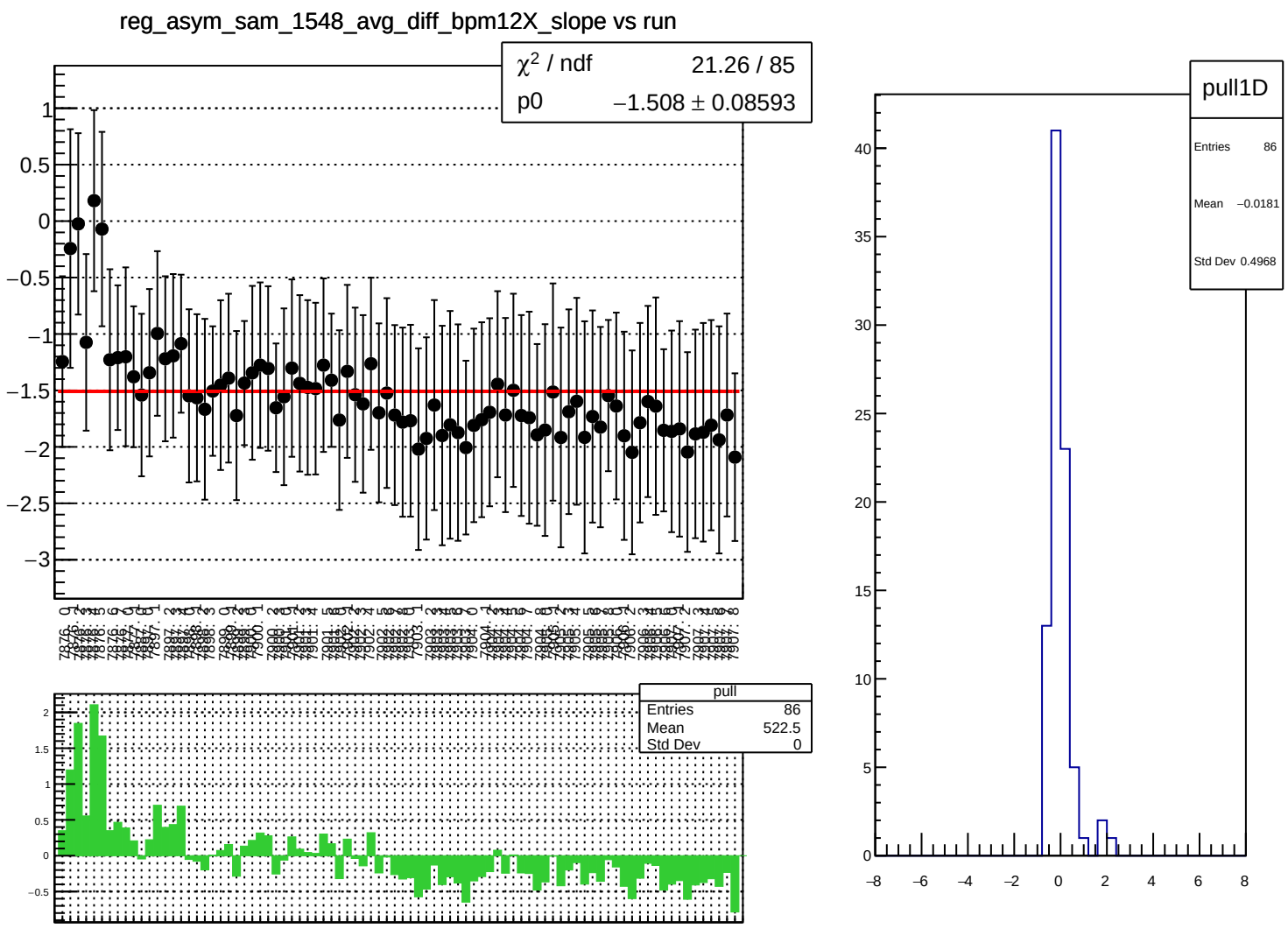

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 174.7 / 85
p0 −33.16 ± 2.01
pull
Entries 86
Mean 69.24
Std Dev 0

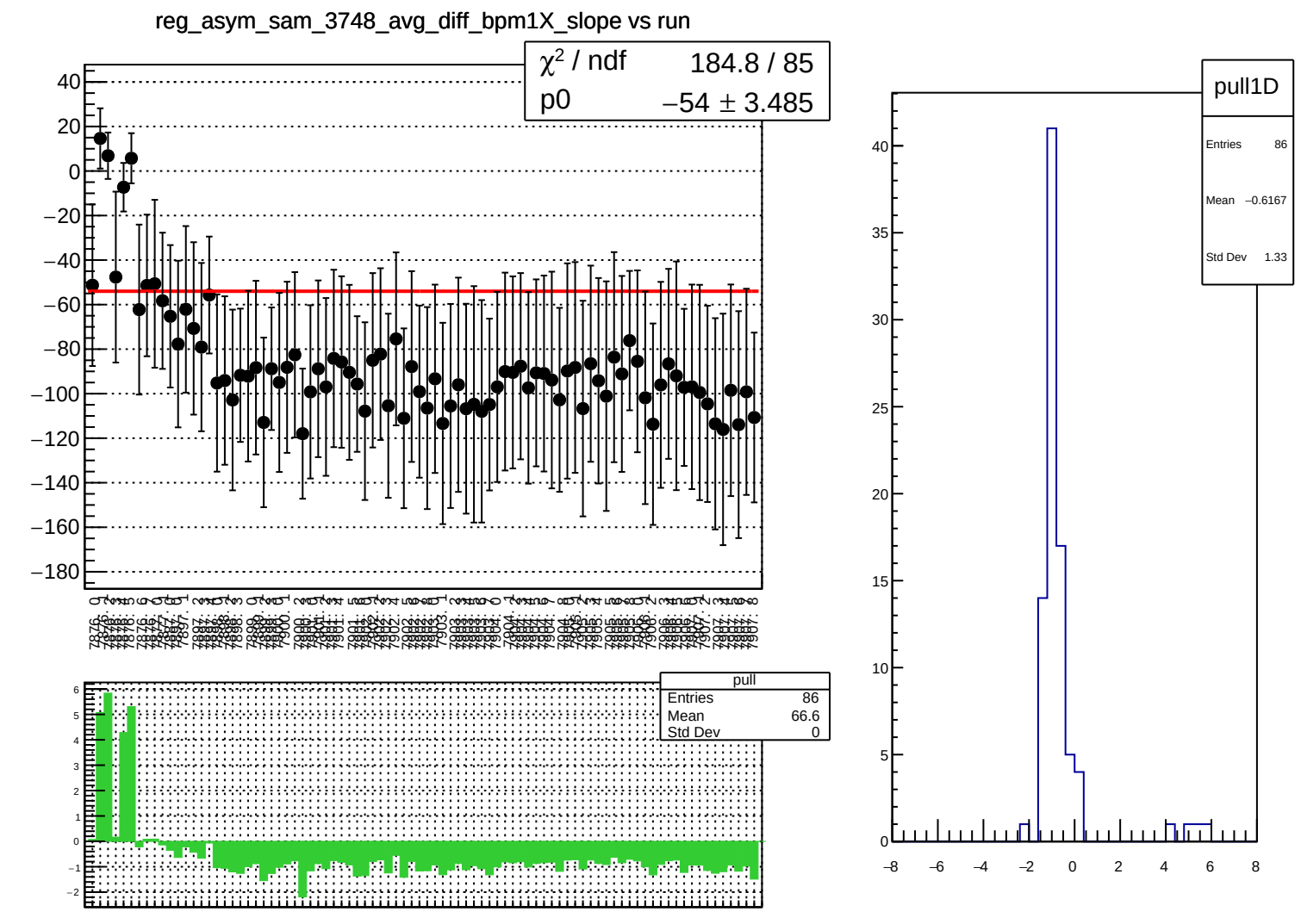

pull1D
Entries 86
Mean −0.5457
Std Dev 1.317

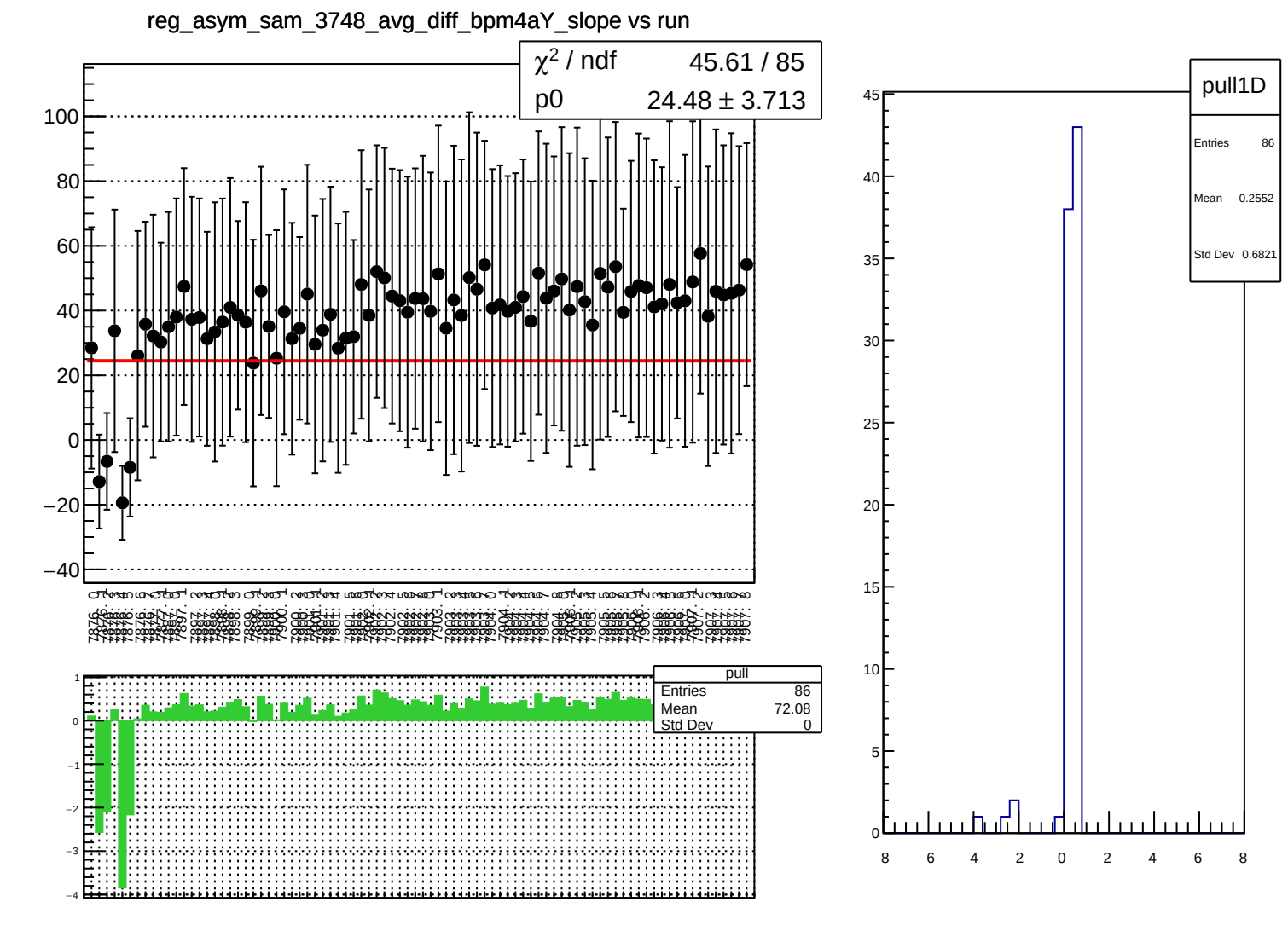

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 156.5 / 85
p0 28.83 ± 2.126
pull
Entries 86
Mean 74.37
Std Dev 0
pull1D
Entries 86
Mean 0.4281
Std Dev 1.279

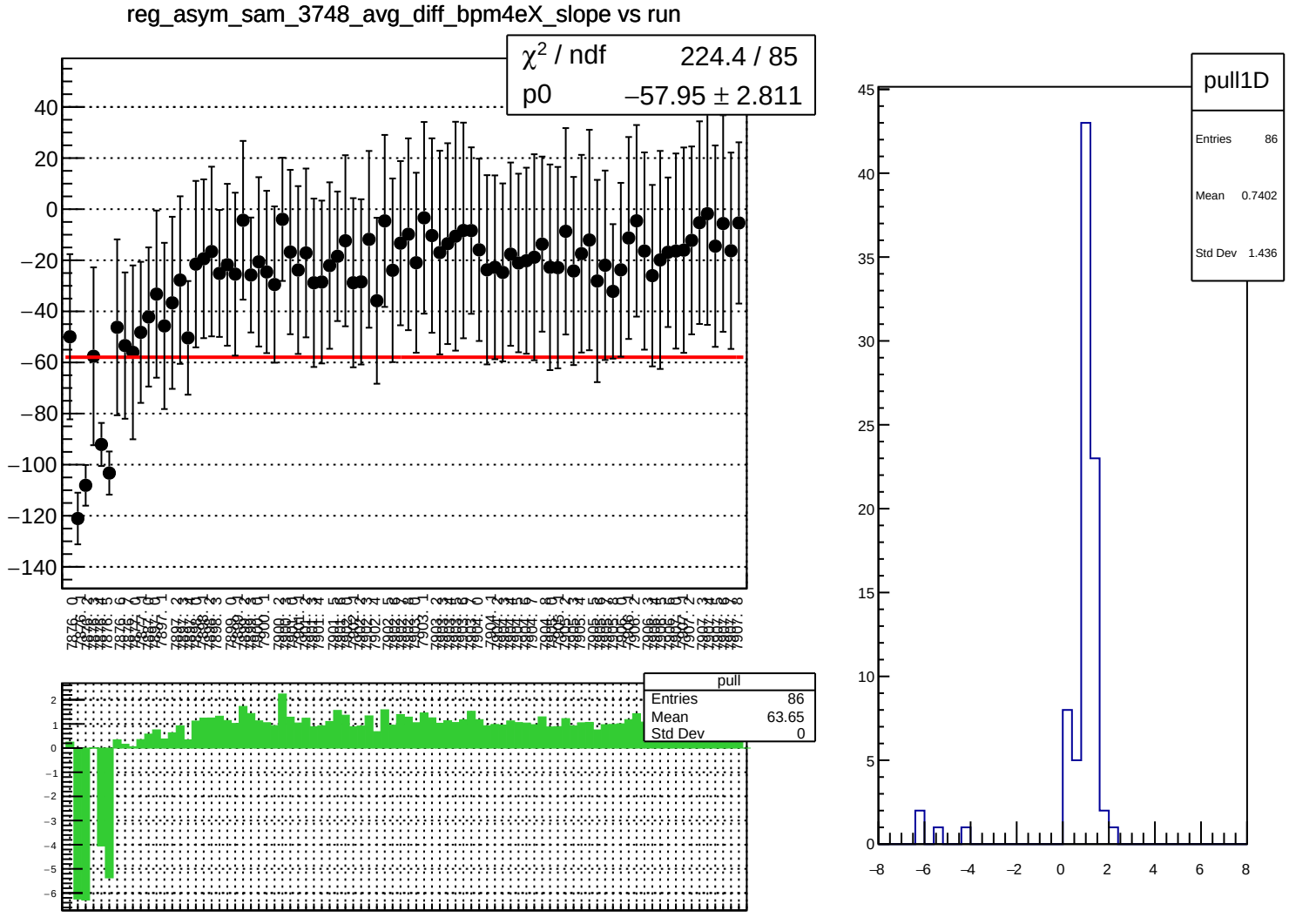

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 211.7 / 85
p0 −30.73 ± 1.628
pull
Entries 86
Mean 65.41
Std Dev 0
pull1D
Entries 86
Mean 0.6578
Std Dev 1.424

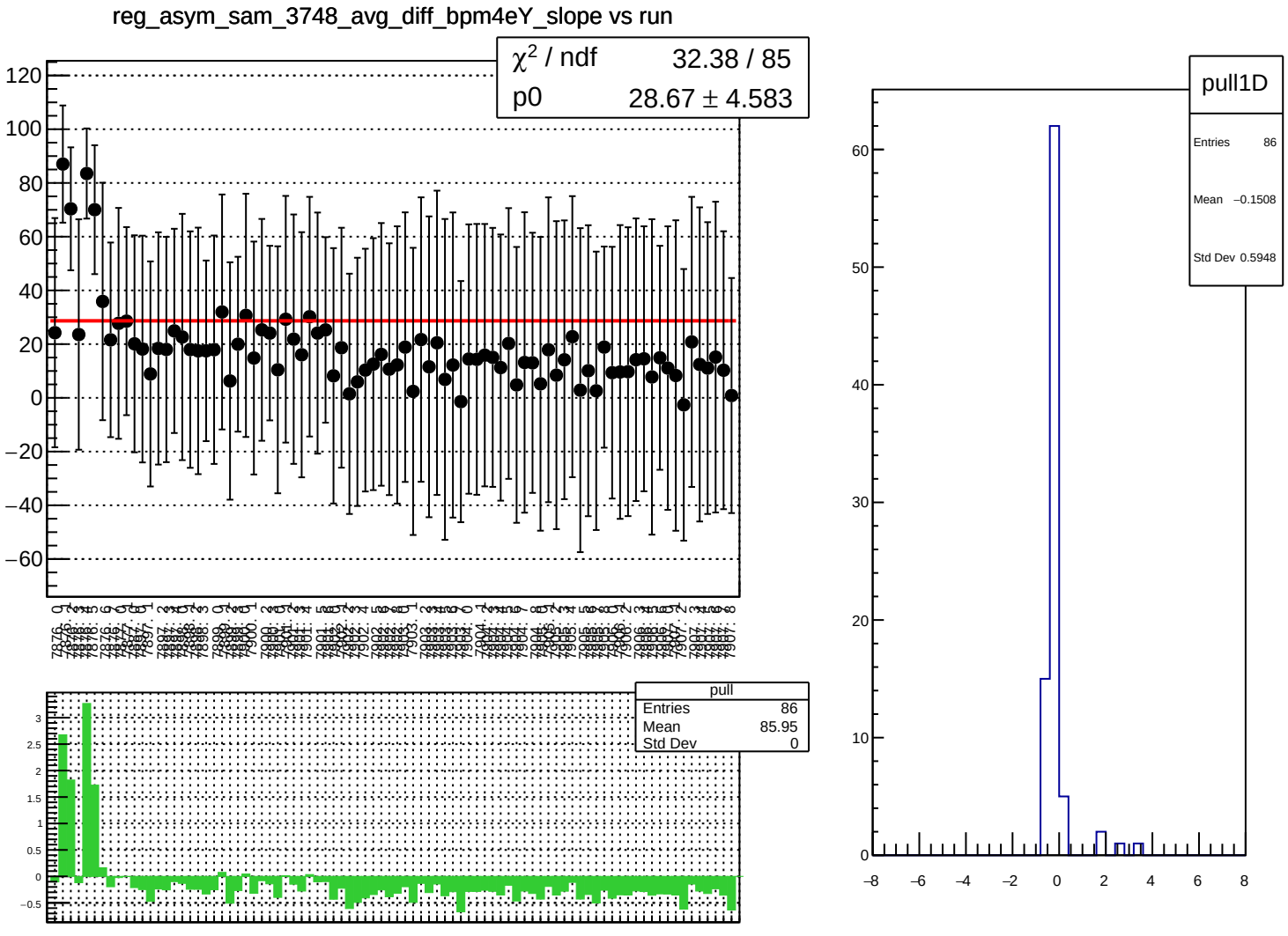

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 108.5 / 85
p0 45.8 ± 2.604
120
100
80
60
40
20
0
pull
Entries 86
Mean 90.53
Std Dev 0
6
5
4
3
2
1
0
−1
pull1D
Entries 86
Mean −0.2426
Std Dev 1.097
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

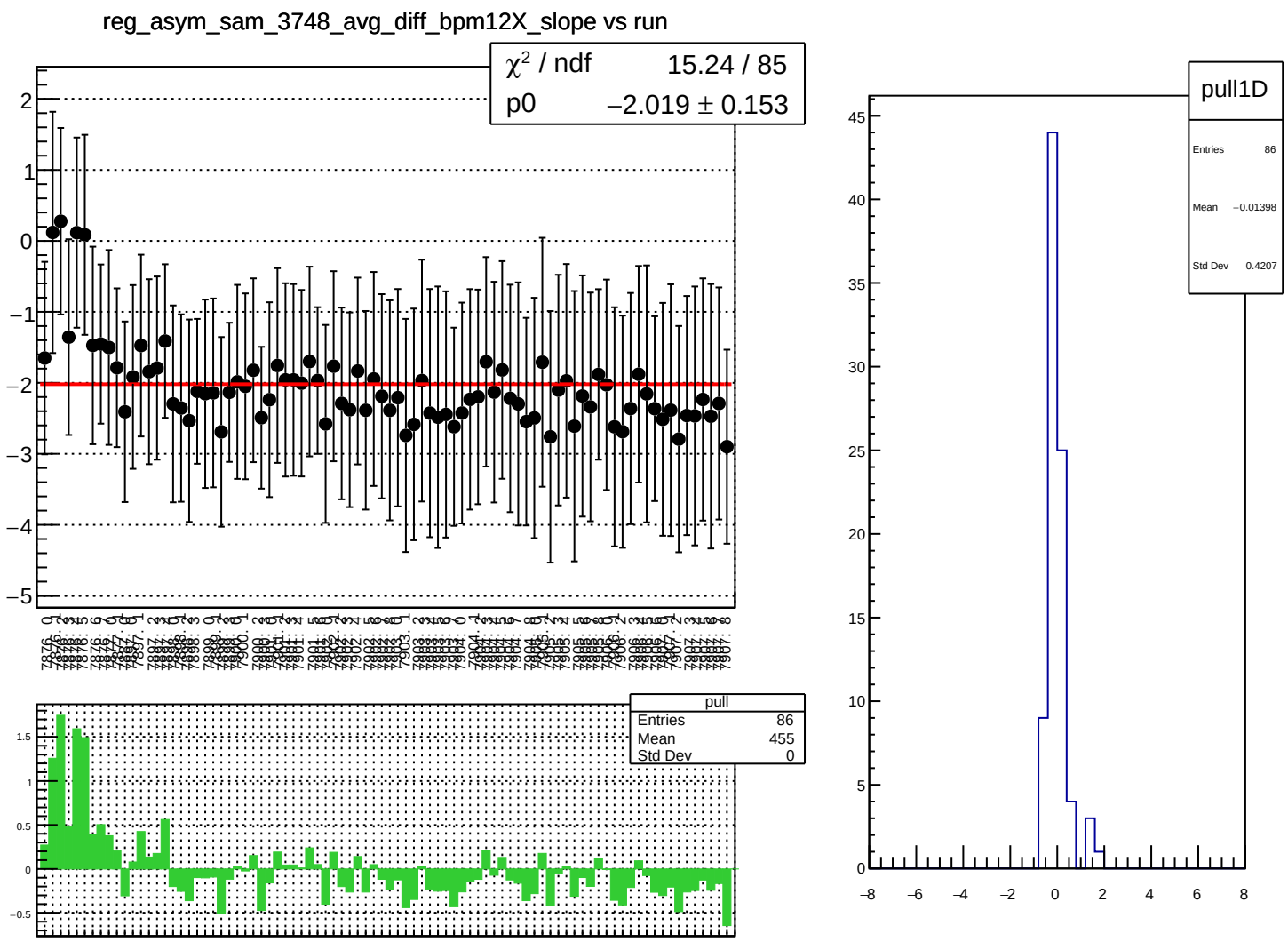

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 21.26 / 85
p0 −1.508 ± 0.08593
pull
Entries 86
Mean 522.5
Std Dev 0
pull1D
Entries 86
Mean −0.0181
Std Dev 0.4968

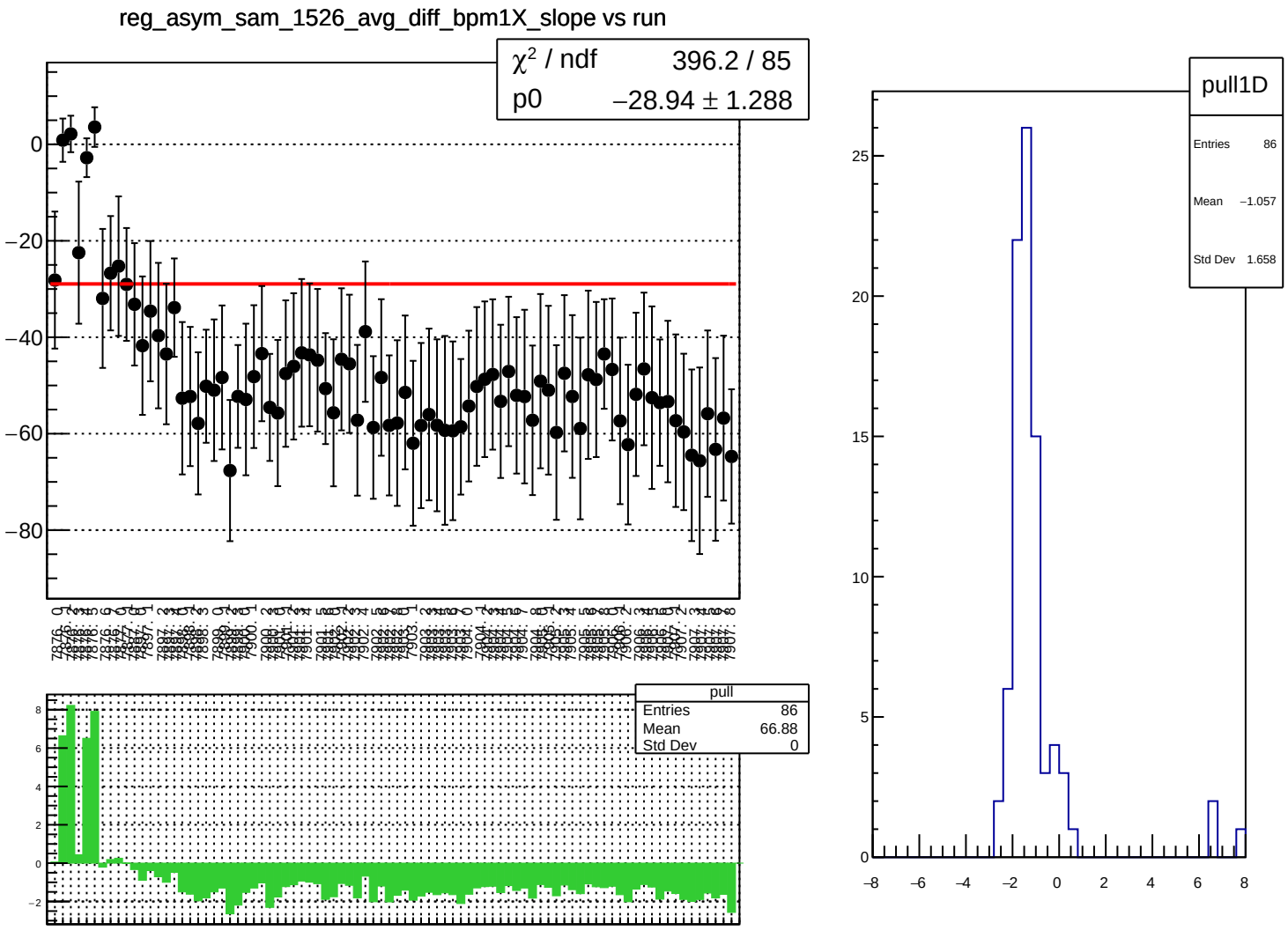

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 184.8 / 85
p0 −54 ± 3.485
pull
Entries 86
Mean 66.6
Std Dev 0
pull1D
Entries 86
Mean −0.6167
Std Dev 1.33

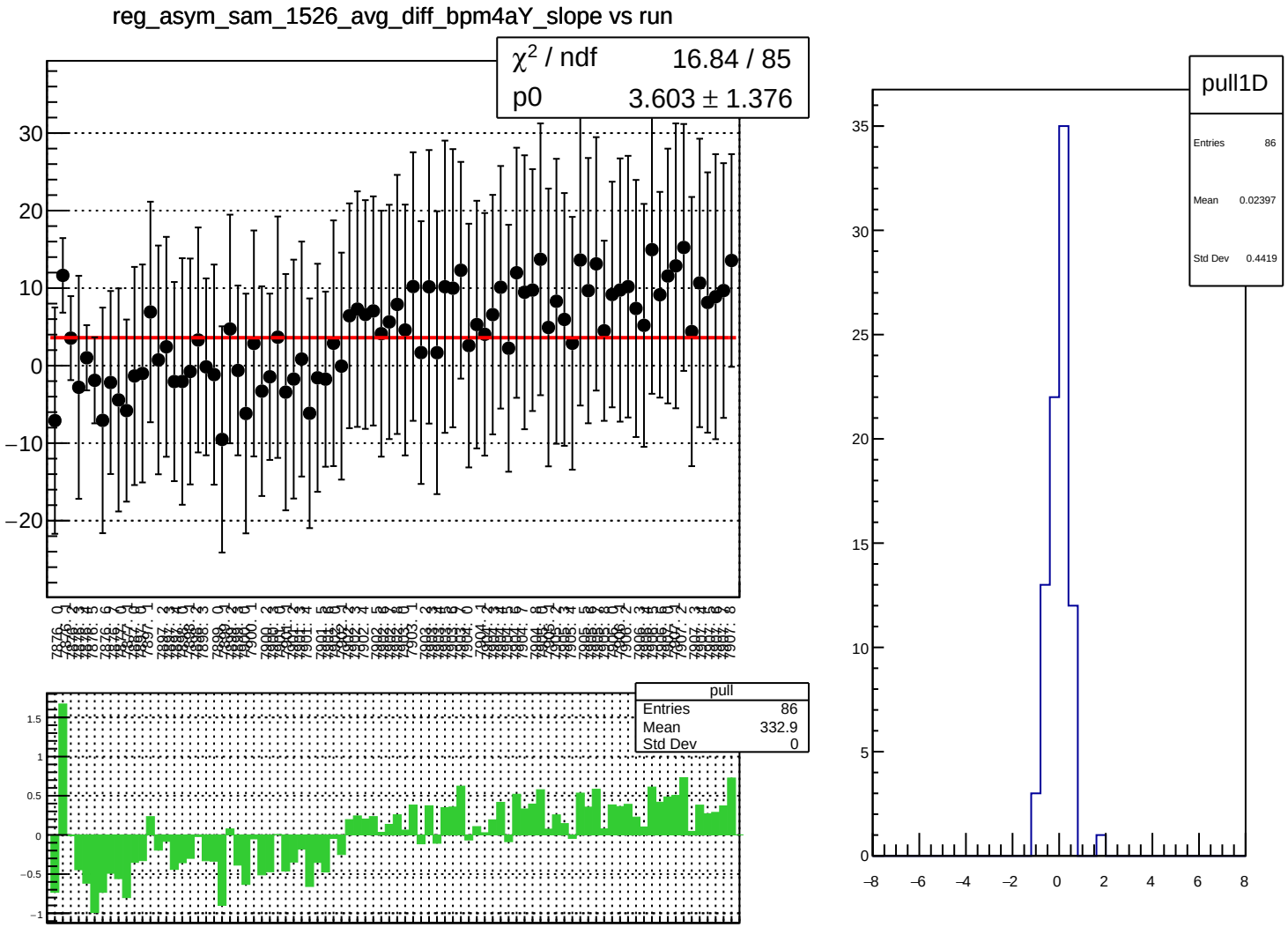

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.61 / 85
p0 24.48 ± 3.713
pull
Entries 86
Mean 72.08
Std Dev 0
pull1D
Entries 86
Mean 0.2552
Std Dev 0.6821

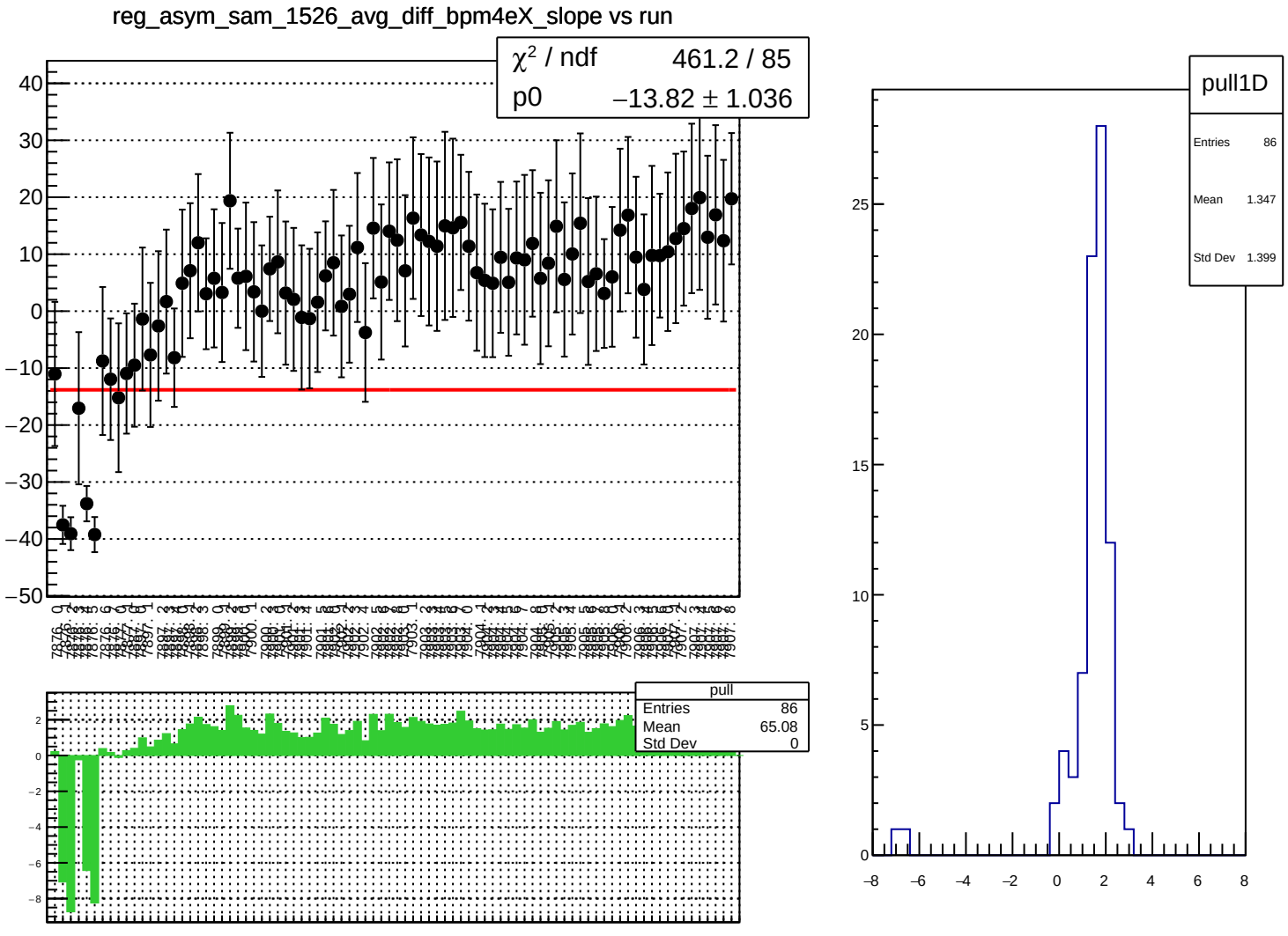

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 224.4 / 85
p0 −57.95 ± 2.811
pull
Entries 86
Mean 63.65
Std Dev 0
pull1D
Entries 86
Mean 0.7402
Std Dev 1.436

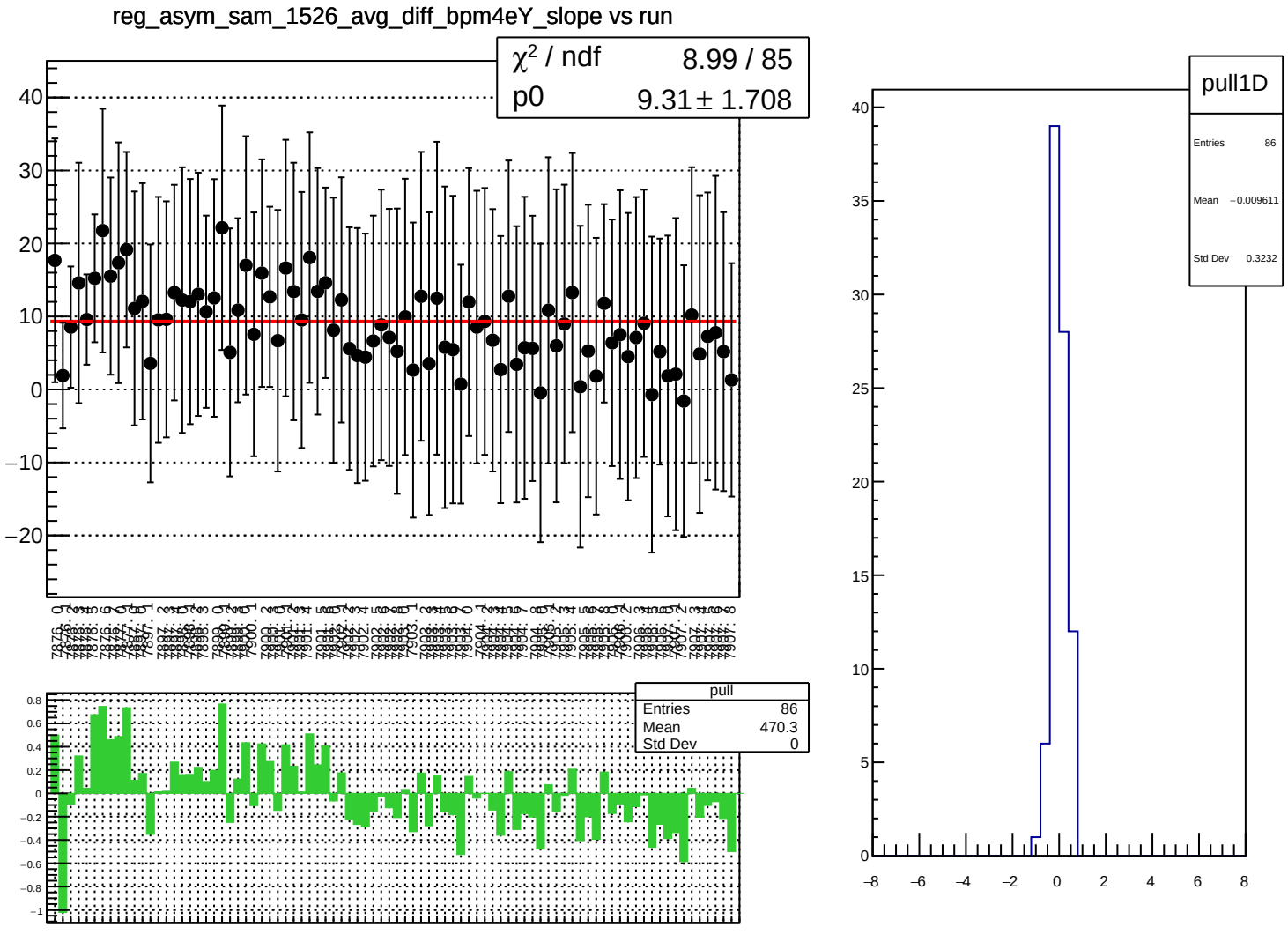

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.38 / 85
p0 28.67 ± 4.583
pull
Entries 86
Mean 85.95
Std Dev 0
pull1D
Entries 86
Mean −0.1508
Std Dev 0.5948

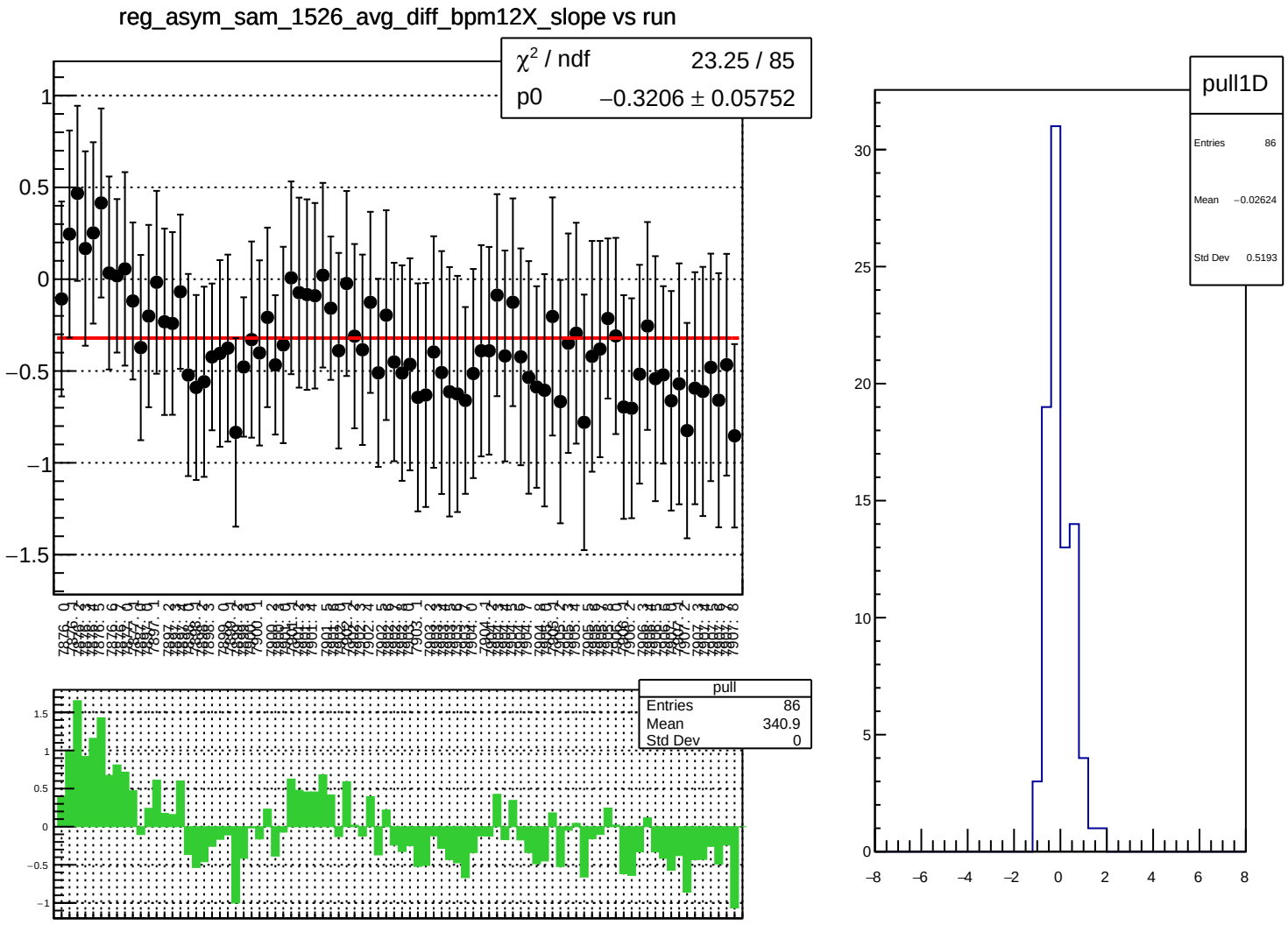

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 15.24 / 85
p0 −2.019 ± 0.153
pull
Entries 86
Mean 455
Std Dev 0
pull1D
Entries 86
Mean −0.01398
Std Dev 0.4207

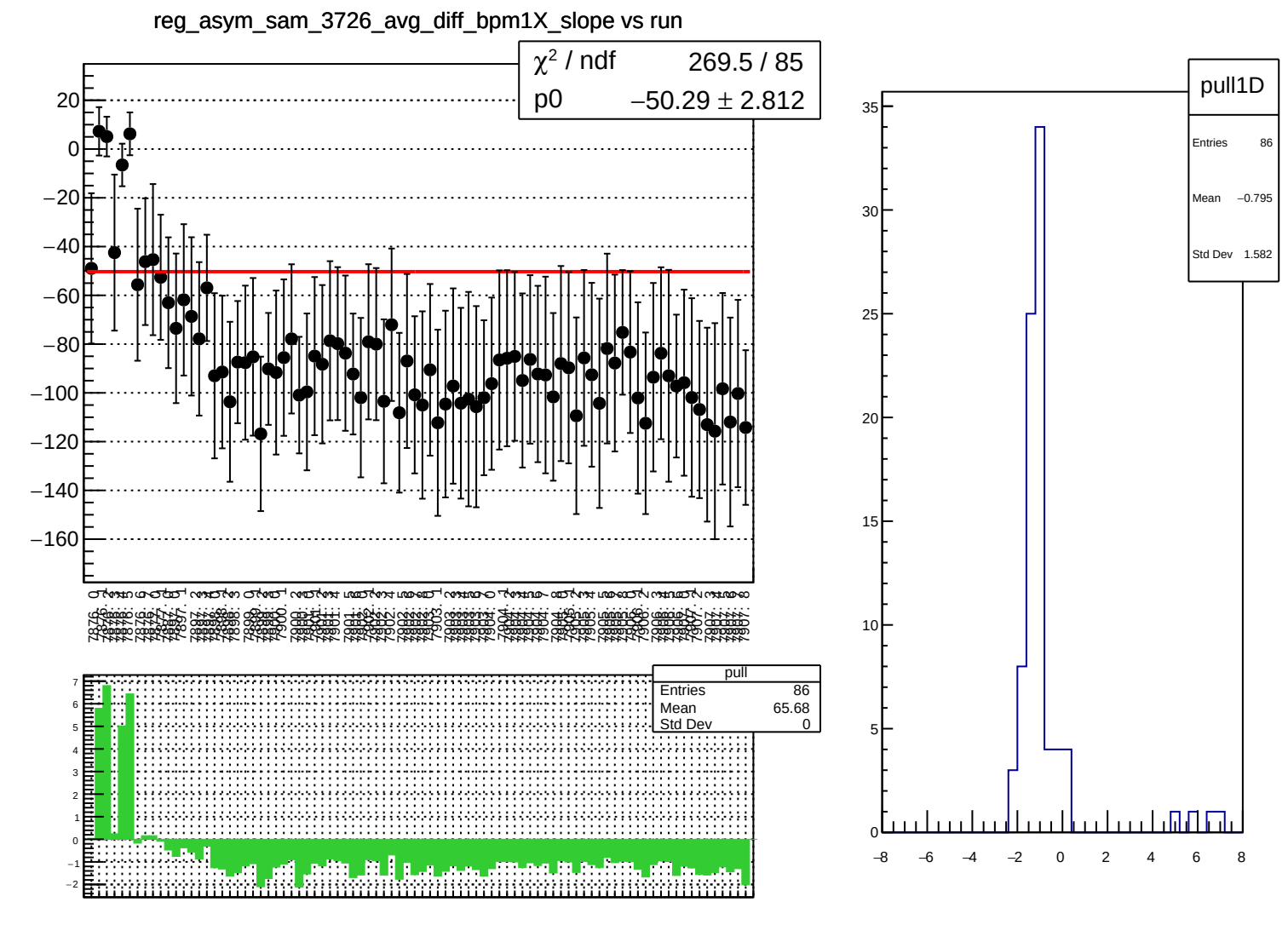

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 396.2 / 85
p0 −28.94 ± 1.288
pull
Entries 86
Mean 66.88
Std Dev 0
pull1D
Entries 86
Mean −1.057
Std Dev 1.658

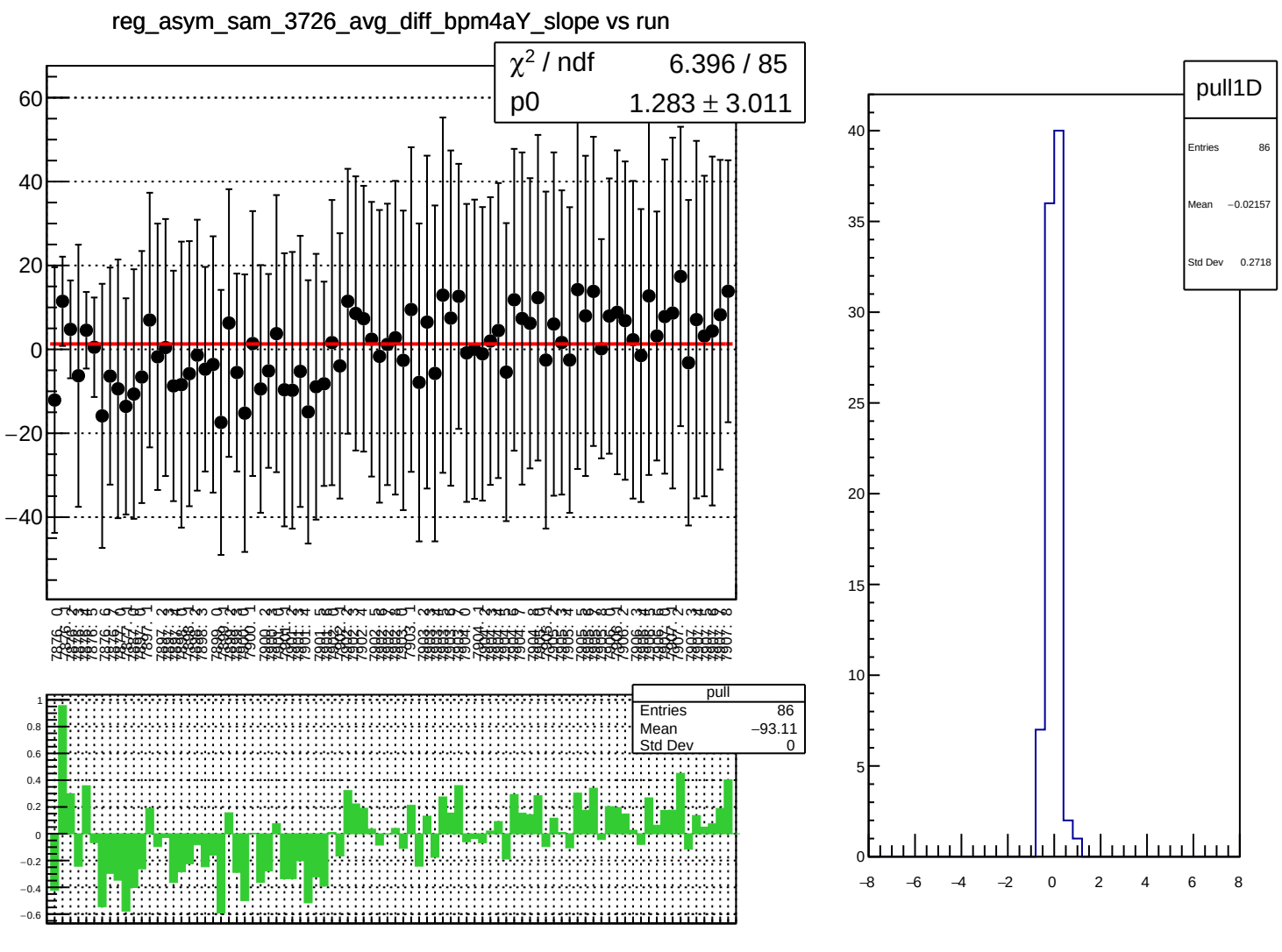

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.84 / 85
p0 3.603 ± 1.376
pull
Entries 86
Mean 332.9
Std Dev 0
pull1D
Entries 86
Mean 0.02397
Std Dev 0.4419

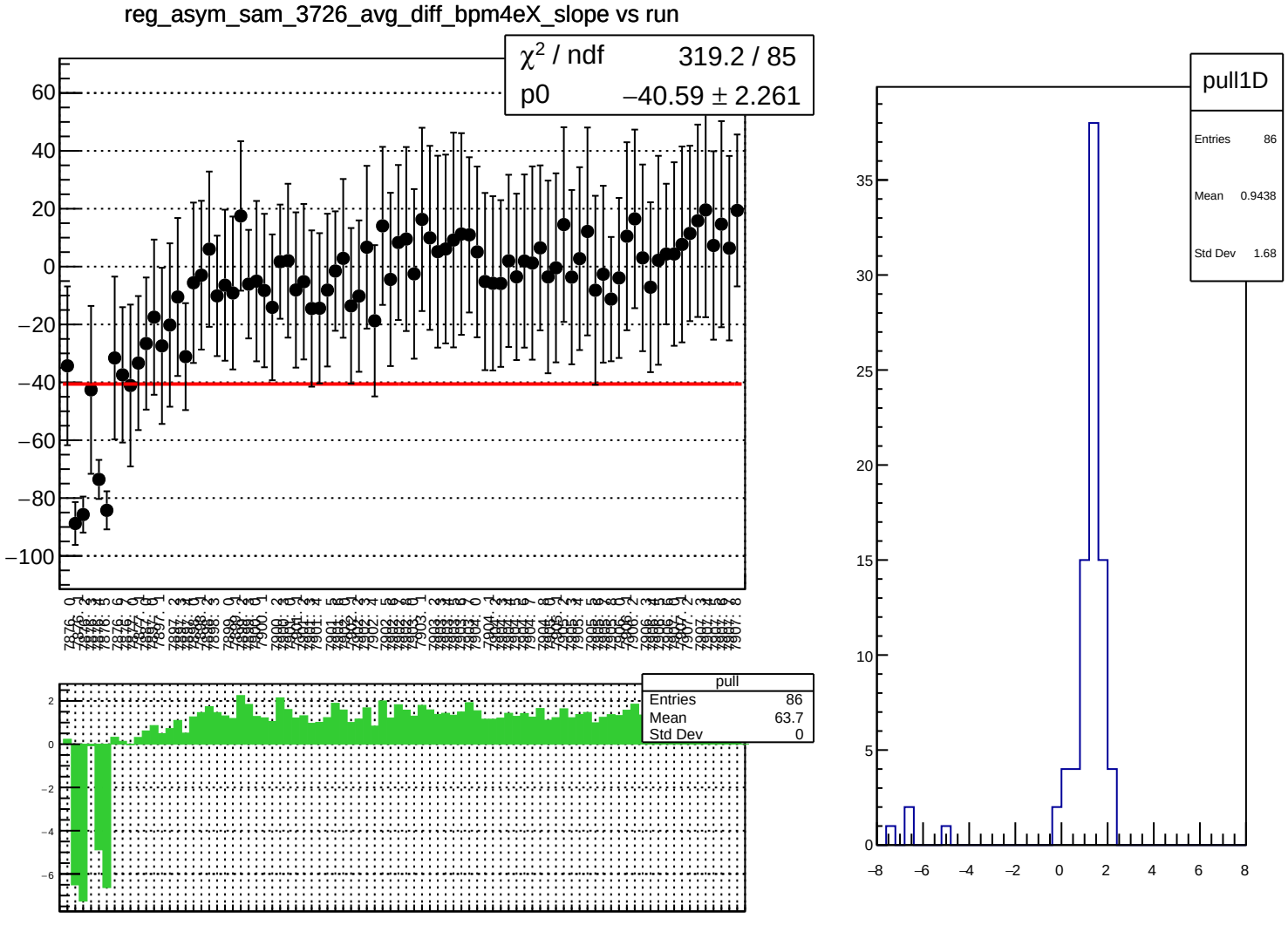

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 461.2 / 85
p0 −13.82 ± 1.036
pull
Entries 86
Mean 65.08
Std Dev 0
pull1D
Entries 86
Mean 1.347
Std Dev 1.399

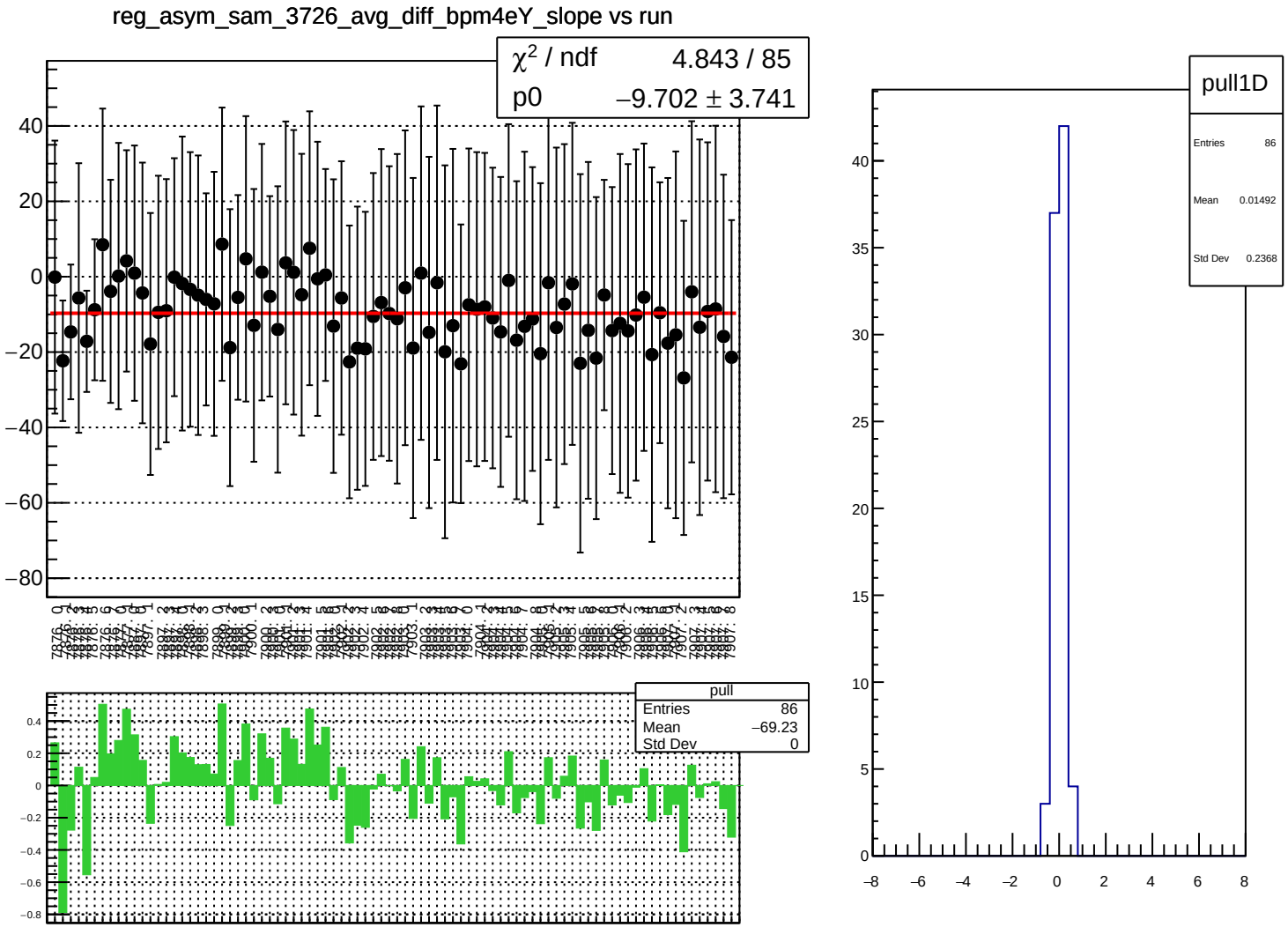

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.99 / 85
p0 9.31 ± 1.708
pull
Entries 86
Mean 470.3
Std Dev 0
pull1D
Entries 86
Mean −0.009611
Std Dev 0.3232

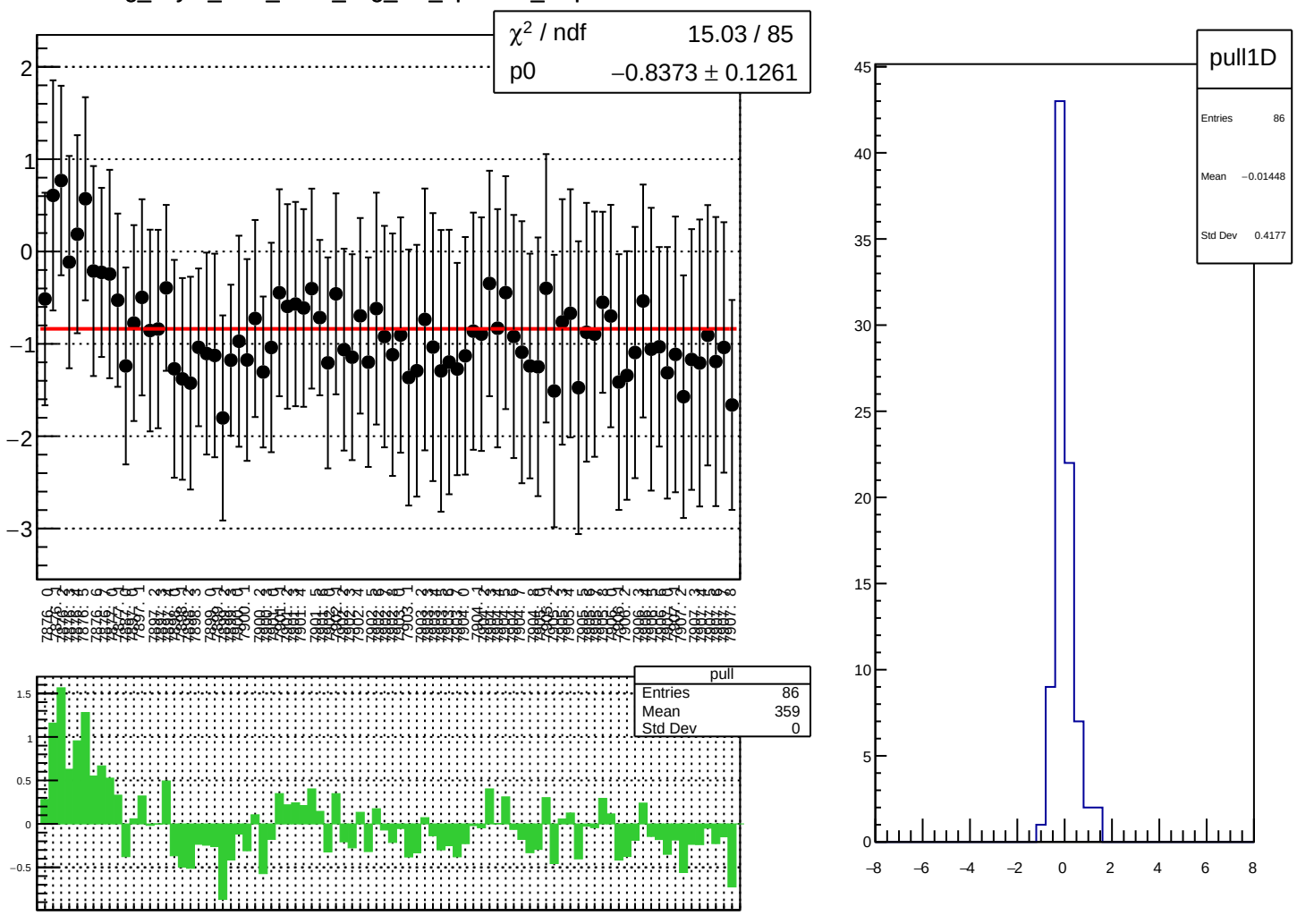

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 23.25 / 85
p0 −0.3206 ± 0.05752
pull
Entries 86
Mean 340.9
Std Dev 0
pull1D
Entries 86
Mean −0.02624
Std Dev 0.5193

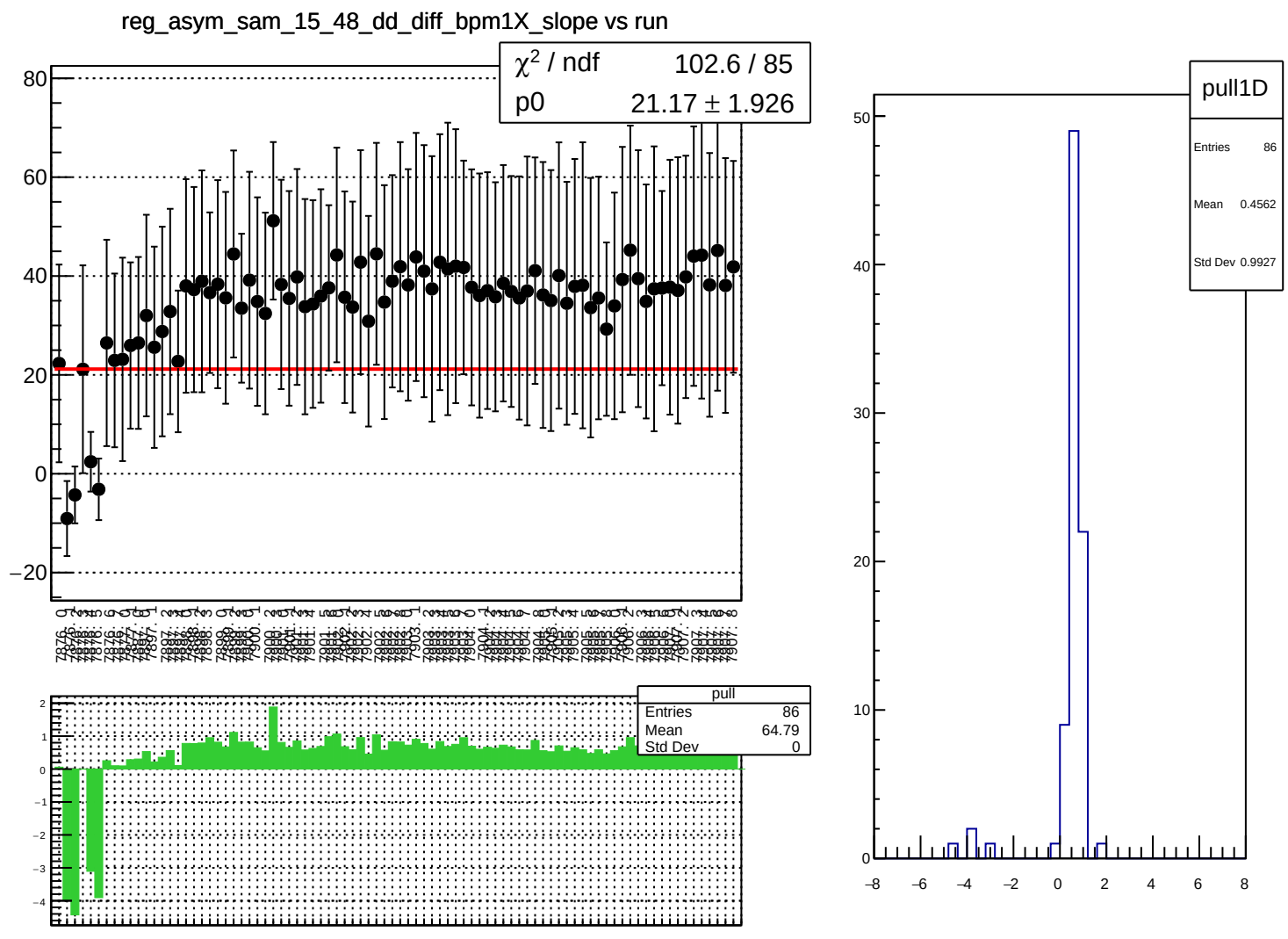

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 269.5 / 85
p0 −50.29 ± 2.812
pull
Entries 86
Mean 65.68
Std Dev 0
pull1D
Entries 86
Mean −0.795
Std Dev 1.582

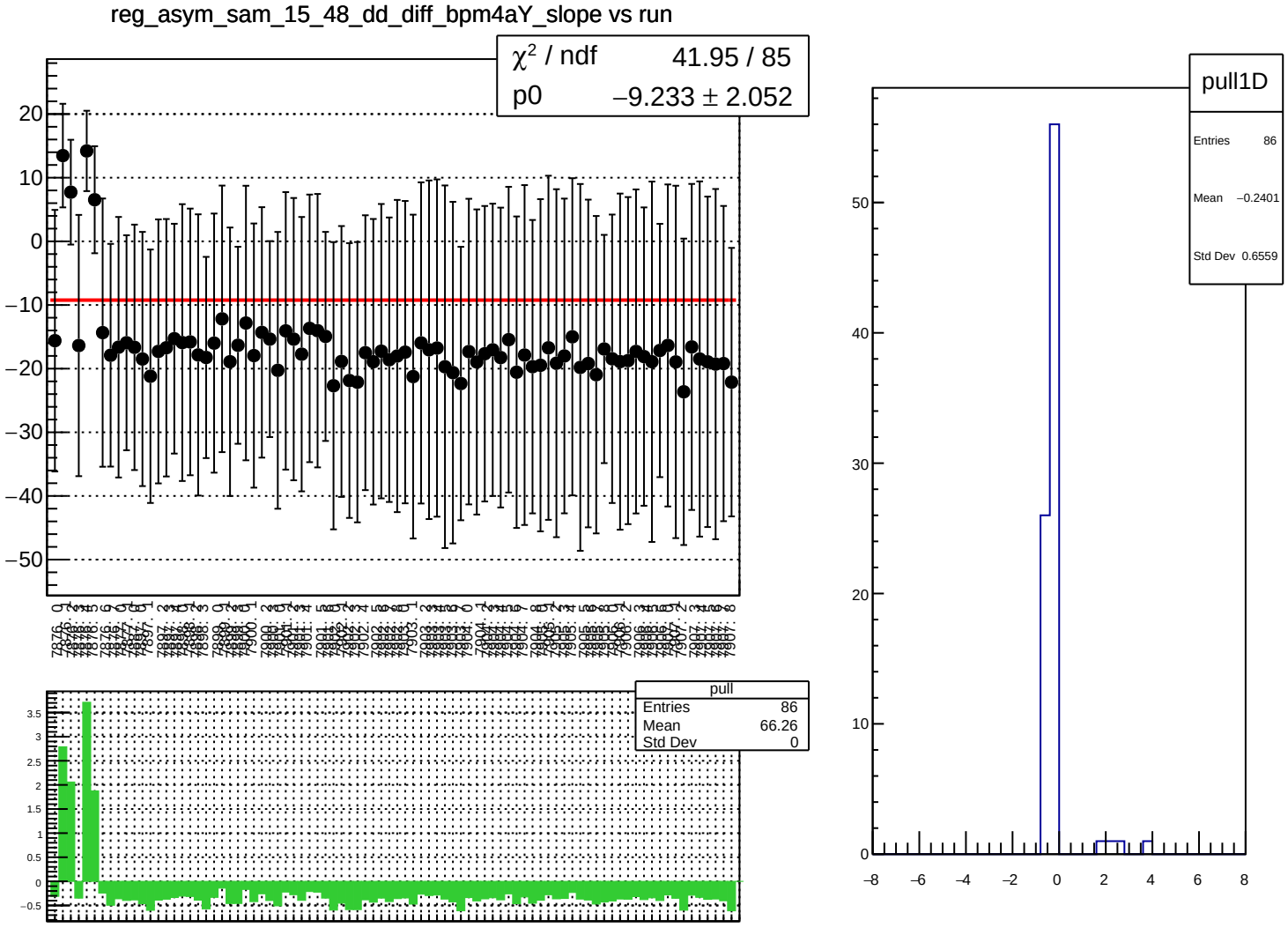

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.396 / 85
p0 1.283 ± 3.011
pull
Entries 86
Mean −93.11
Std Dev 0
pull1D
Entries 86
Mean −0.02157
Std Dev 0.2718

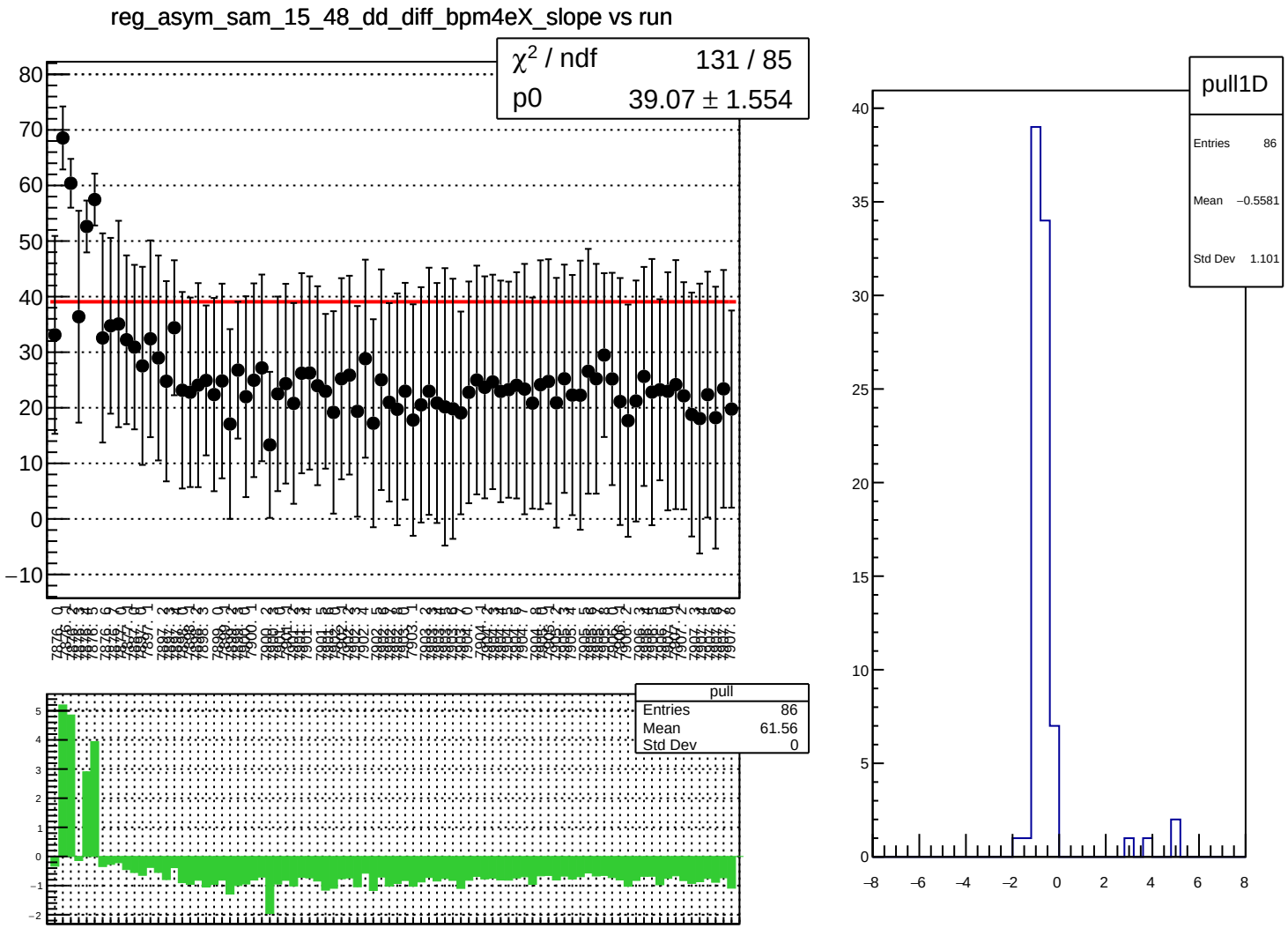

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 319.2 / 85
p0 −40.59 ± 2.261
pull
Entries 86
Mean 63.7
Std Dev 0
pull1D
Entries 86
Mean 0.9438
Std Dev 1.68

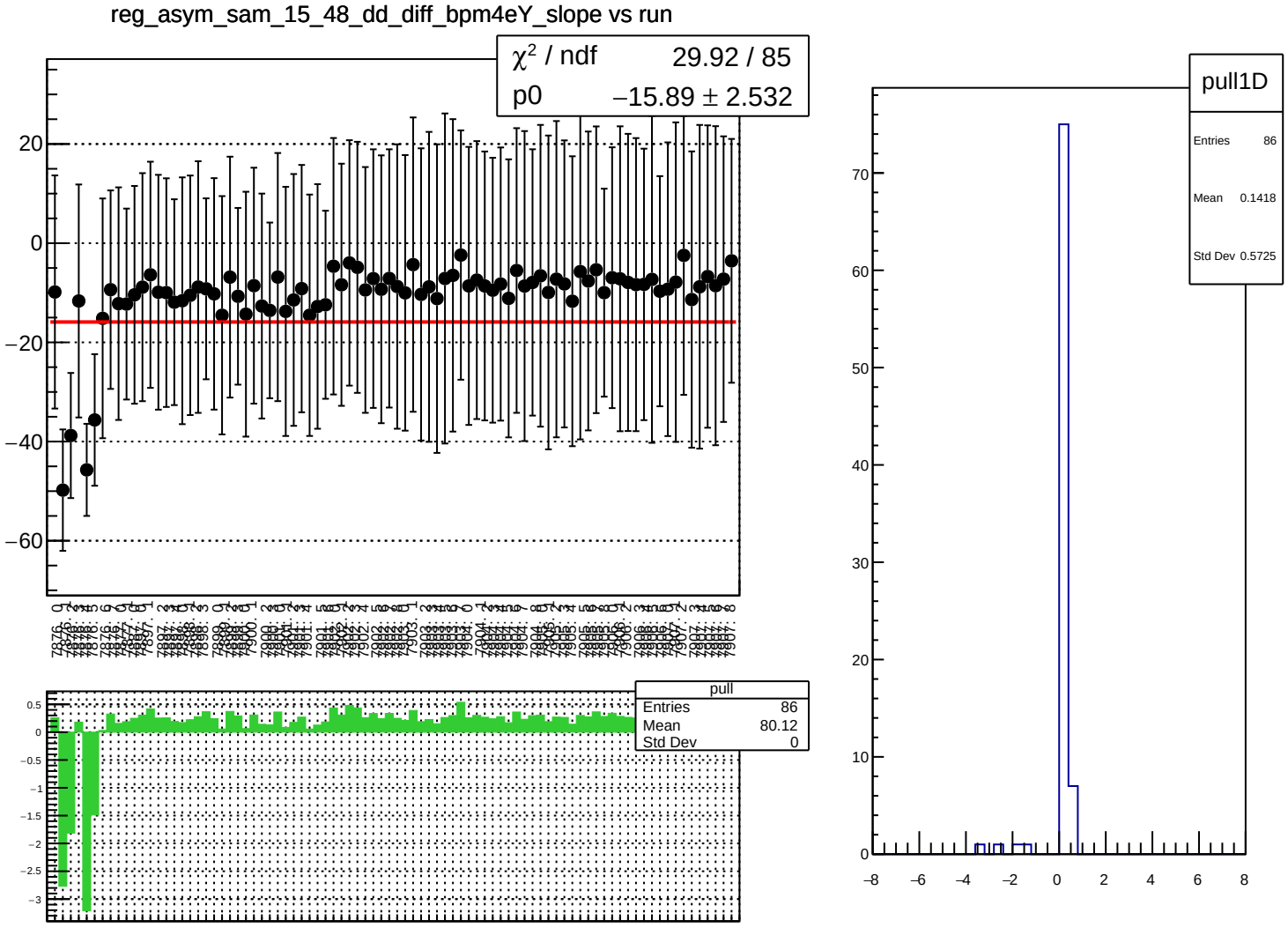

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.843 / 85
p0 −9.702 ± 3.741
pull
Entries 86
Mean −69.23
Std Dev 0
pull1D
Entries 86
Mean 0.01492
Std Dev 0.2368

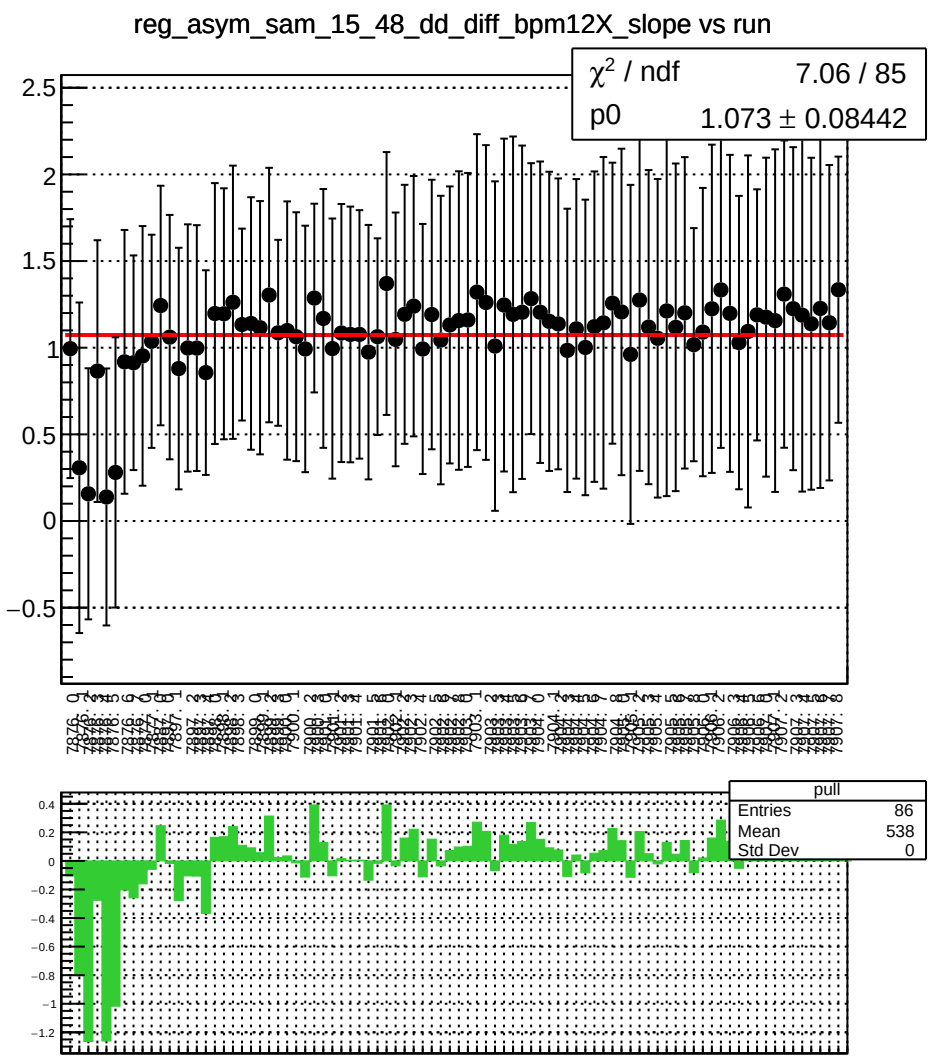

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 15.03 / 85
p0 −0.8373 ± 0.1261
pull
Entries 86
Mean 359
Std Dev 0
pull1D
Entries 86
Mean −0.01448
Std Dev 0.4177

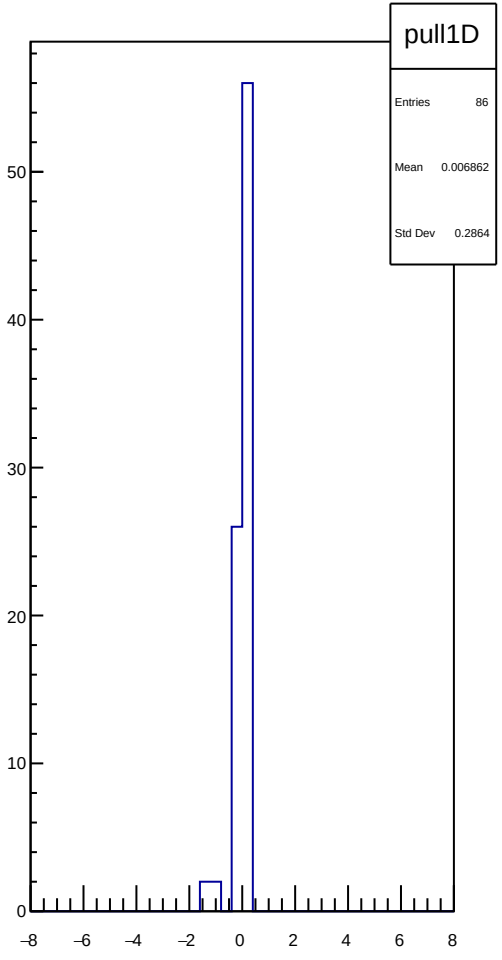

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 102.6 / 85
p0 21.17 ± 1.926
pull
Entries 86
Mean 64.79
Std Dev 0
pull1D
Entries 86
Mean 0.4562
Std Dev 0.9927

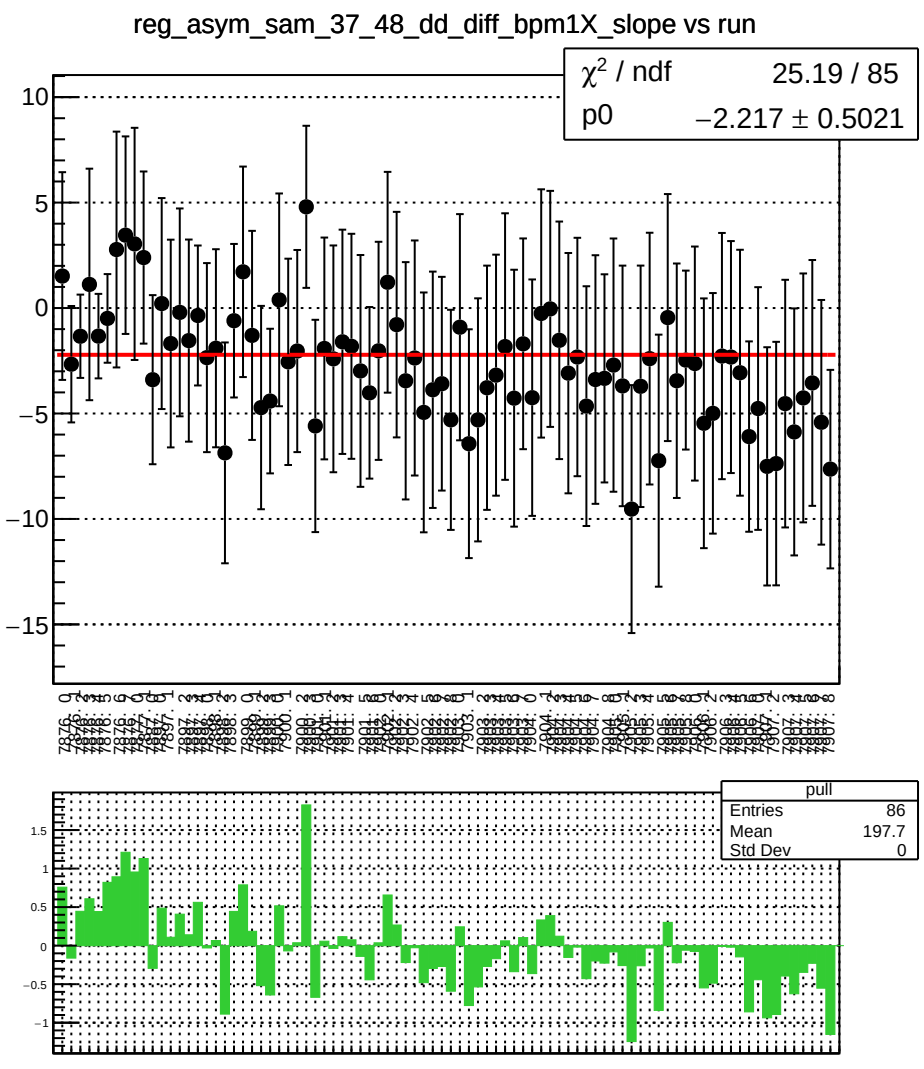

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.95 / 85
p0 −9.233 ± 2.052
pull
Entries 86
Mean 66.26
Std Dev 0
pull1D
Entries 86
Mean −0.2401
Std Dev 0.6559

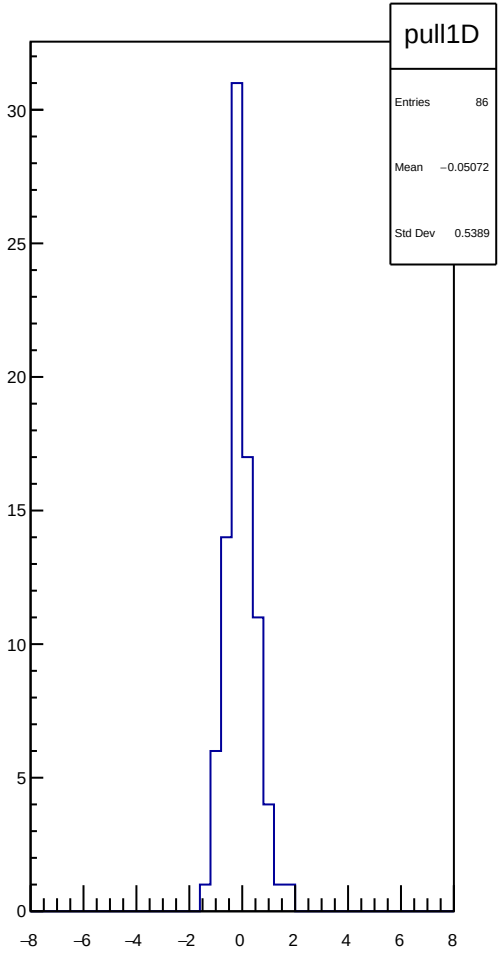

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 131 / 85
p0 39.07 ± 1.554
pull
Entries 86
Mean 61.56
Std Dev 0
pull1D
Entries 86
Mean −0.5581
Std Dev 1.101

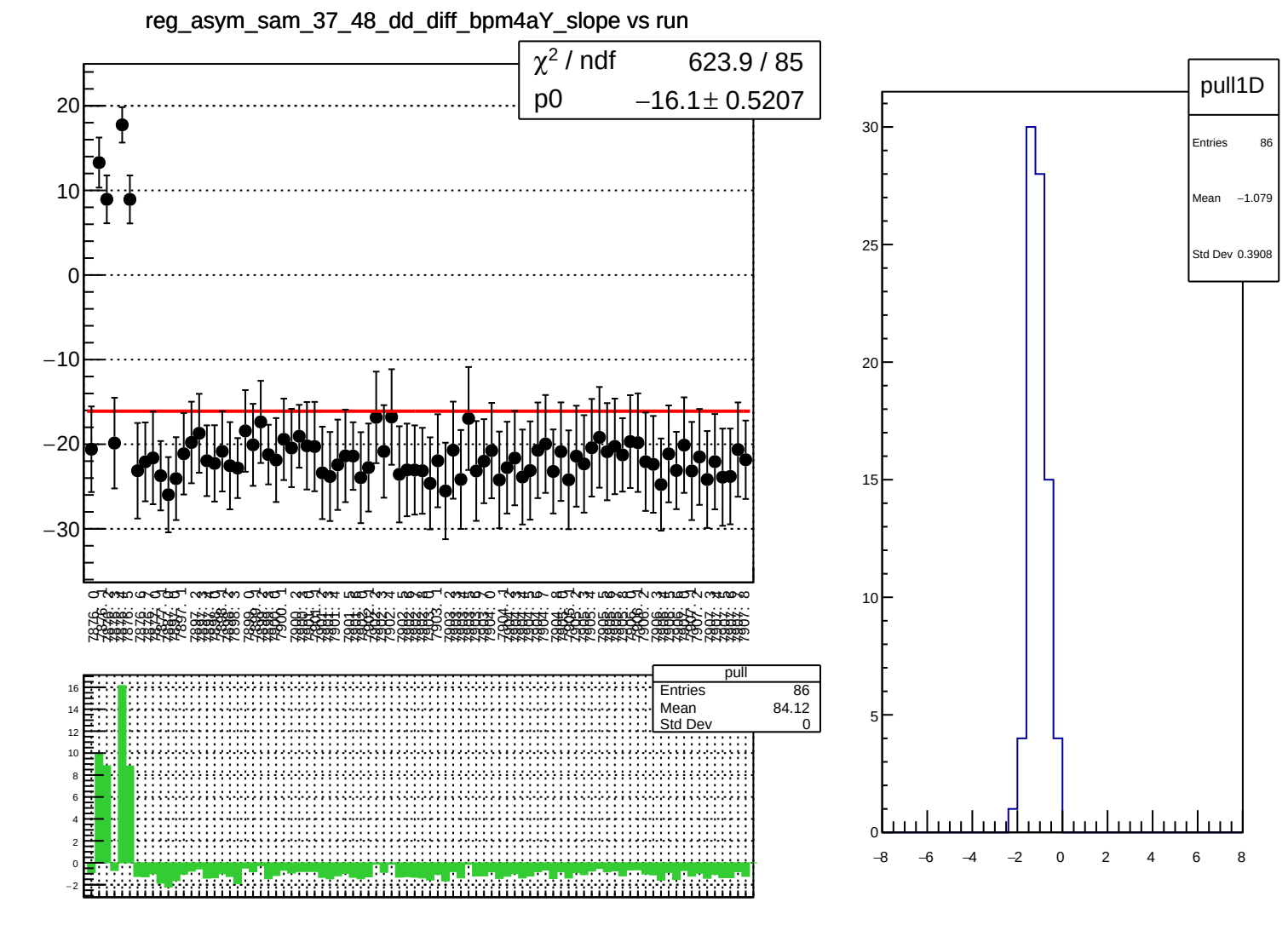

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.92 / 85
p0 −15.89 ± 2.532
pull
Entries 86
Mean 80.12
Std Dev 0
pull1D
Entries 86
Mean 0.1418
Std Dev 0.5725

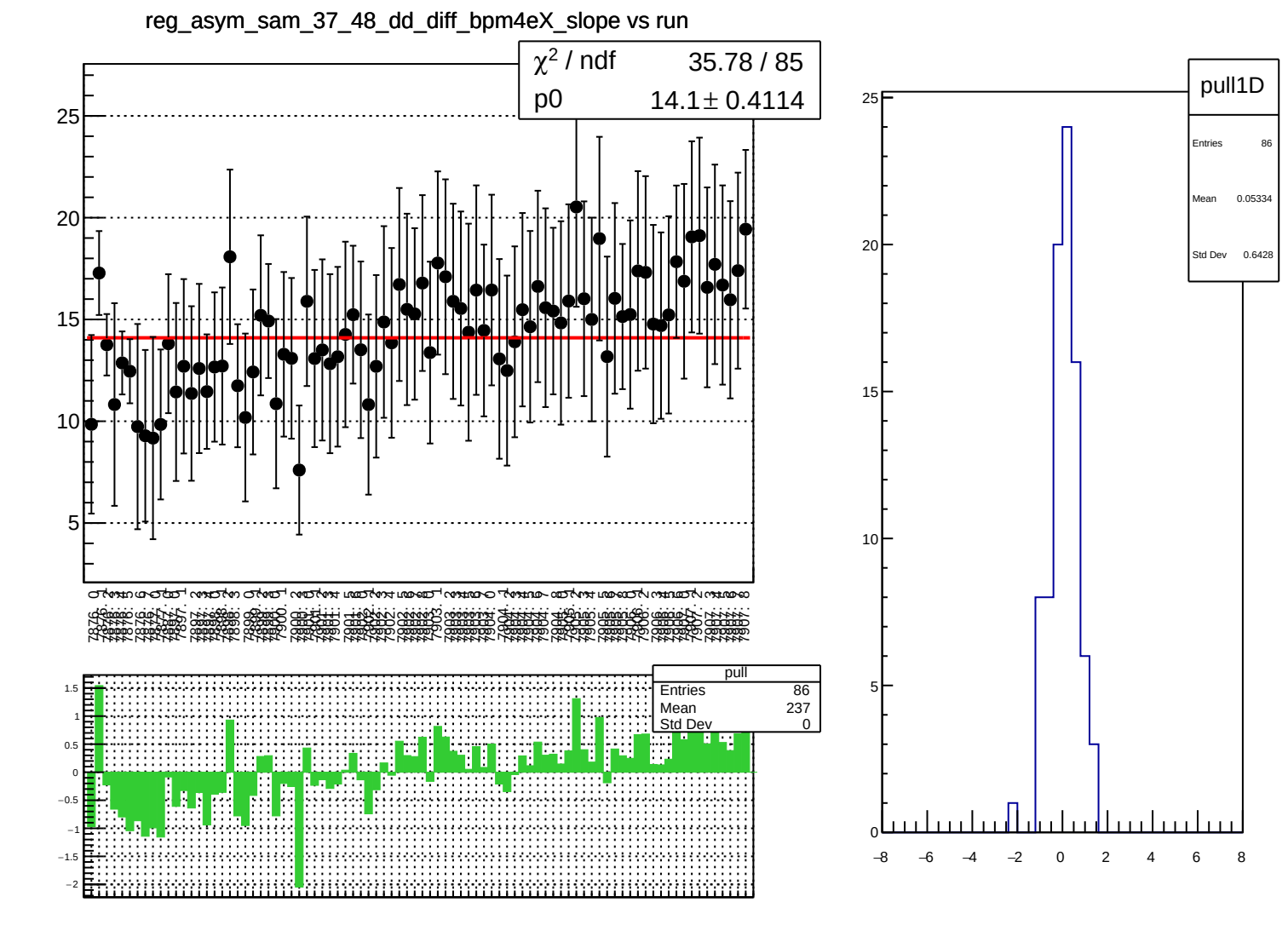

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 7.06 / 85
p0 1.073 ± 0.08442
pull
Entries 86
Mean 538
Std Dev 0

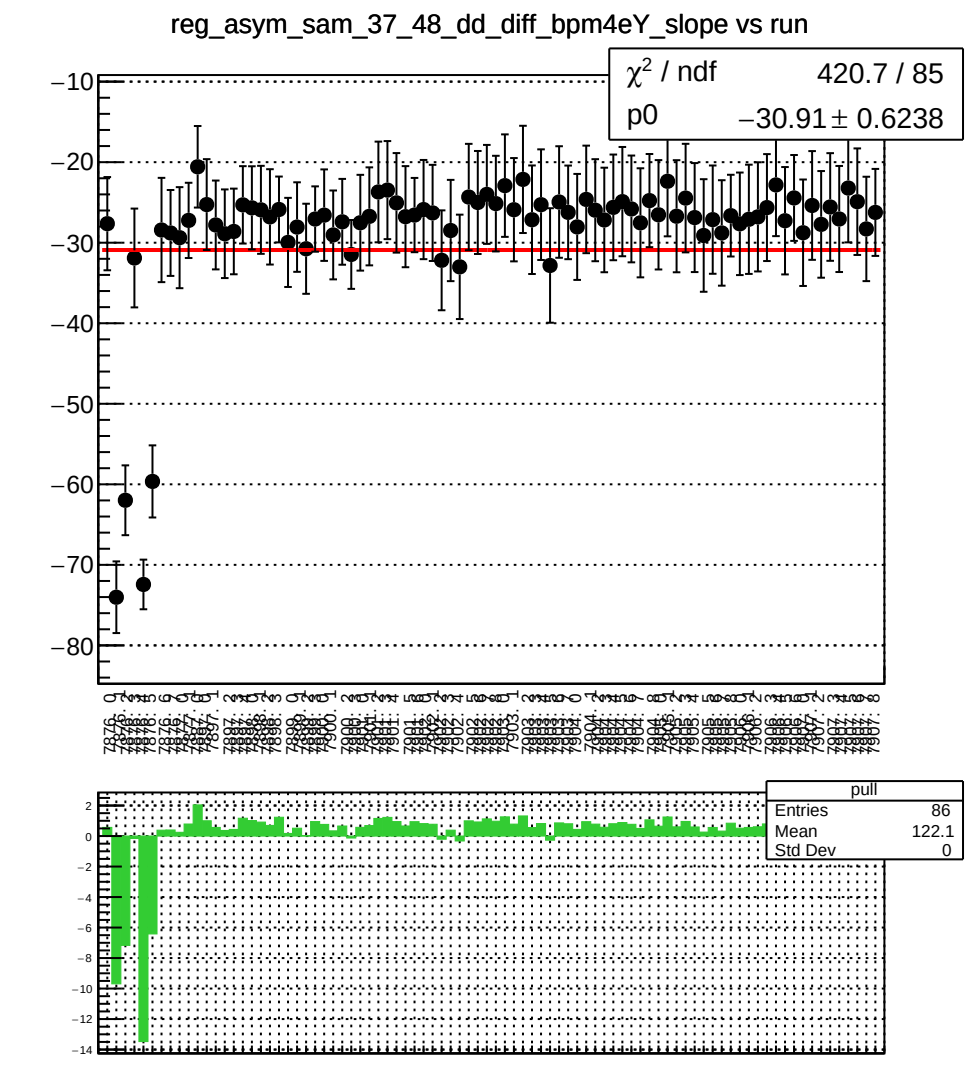

pull1D
Entries 86
Mean 0.006862
Std Dev 0.2864

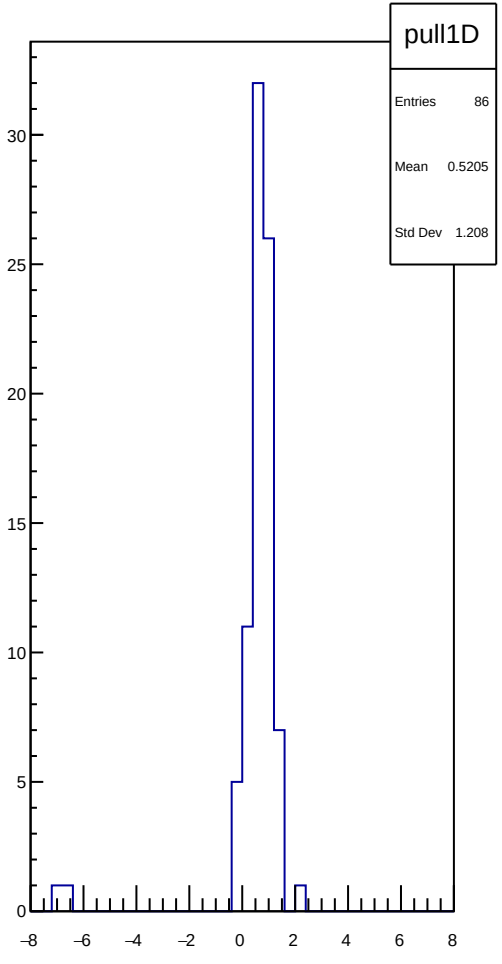

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 25.19 / 85
p0 −2.217 ± 0.5021
pull
Entries 86
Mean 197.7
Std Dev 0

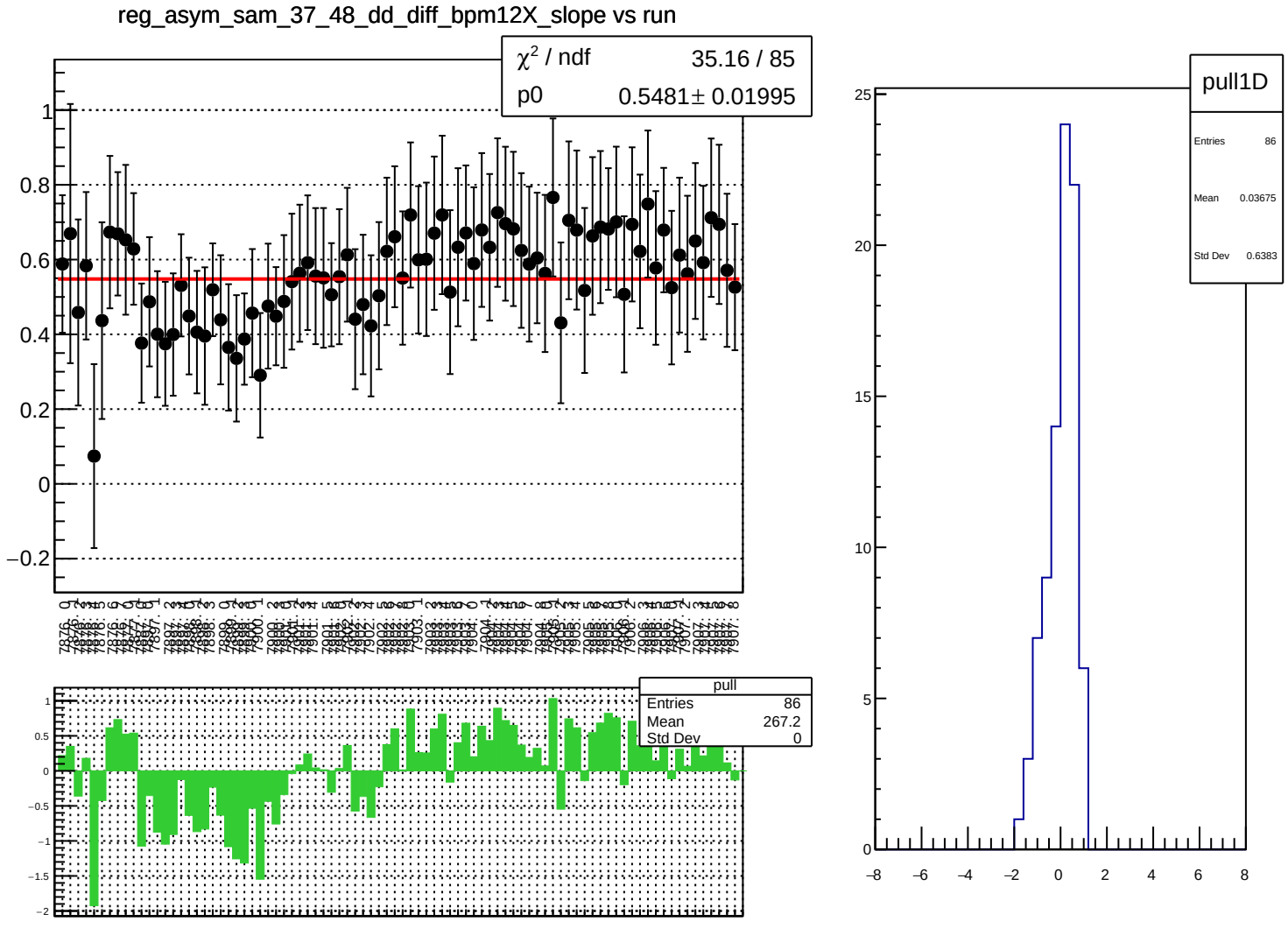

pull1D
Entries 86
Mean −0.05072
Std Dev 0.5389

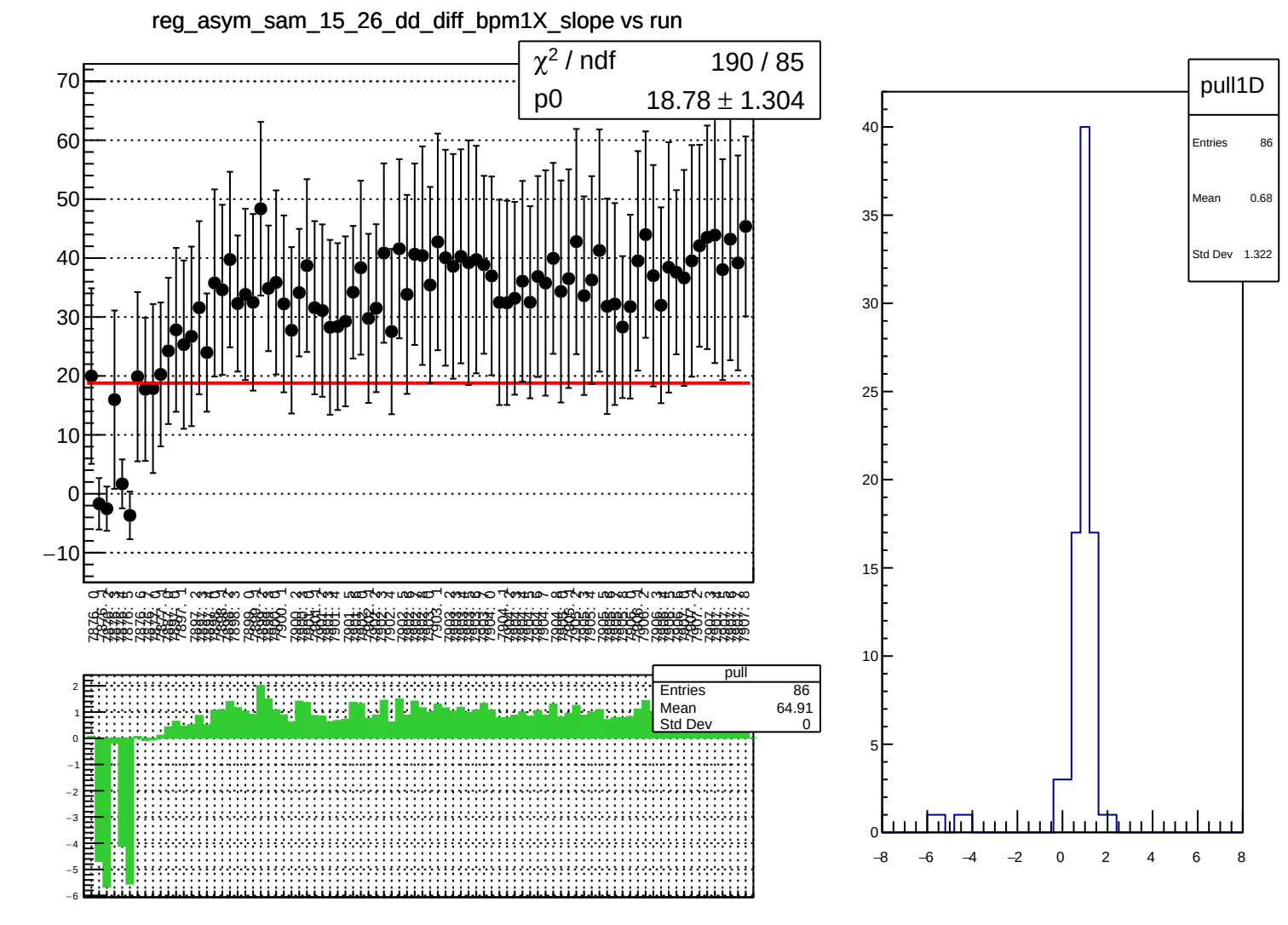

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 623.9 / 85
p0 −16.1 ± 0.5207
pull
Entries 86
Mean 84.12
Std Dev 0
pull1D
Entries 86
Mean −1.079
Std Dev 0.3908

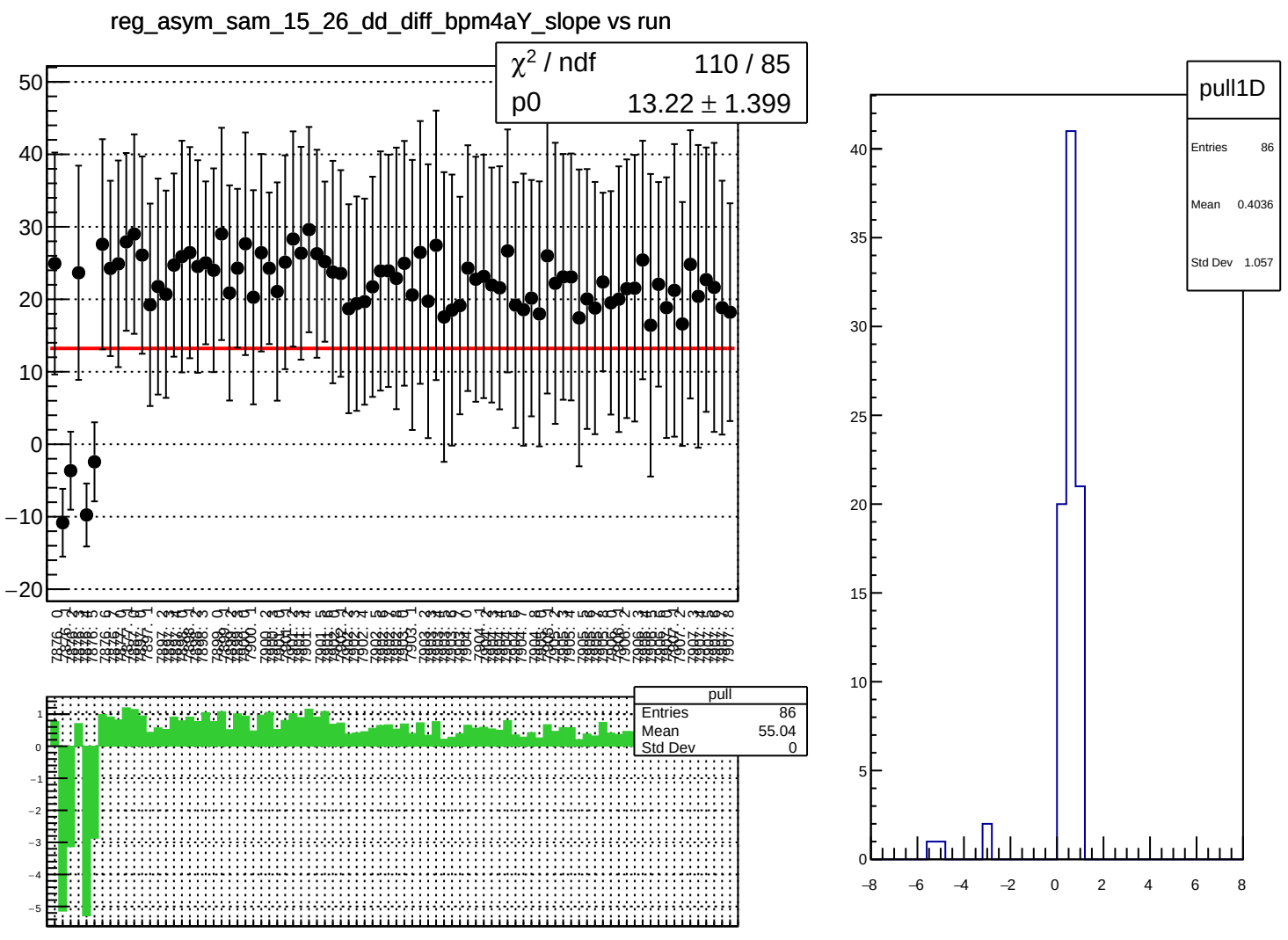

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.78 / 85
p0 14.1 ± 0.4114
pull
Entries 86
Mean 237
Std Dev 0
pull1D
Entries 86
Mean 0.05334
Std Dev 0.6428

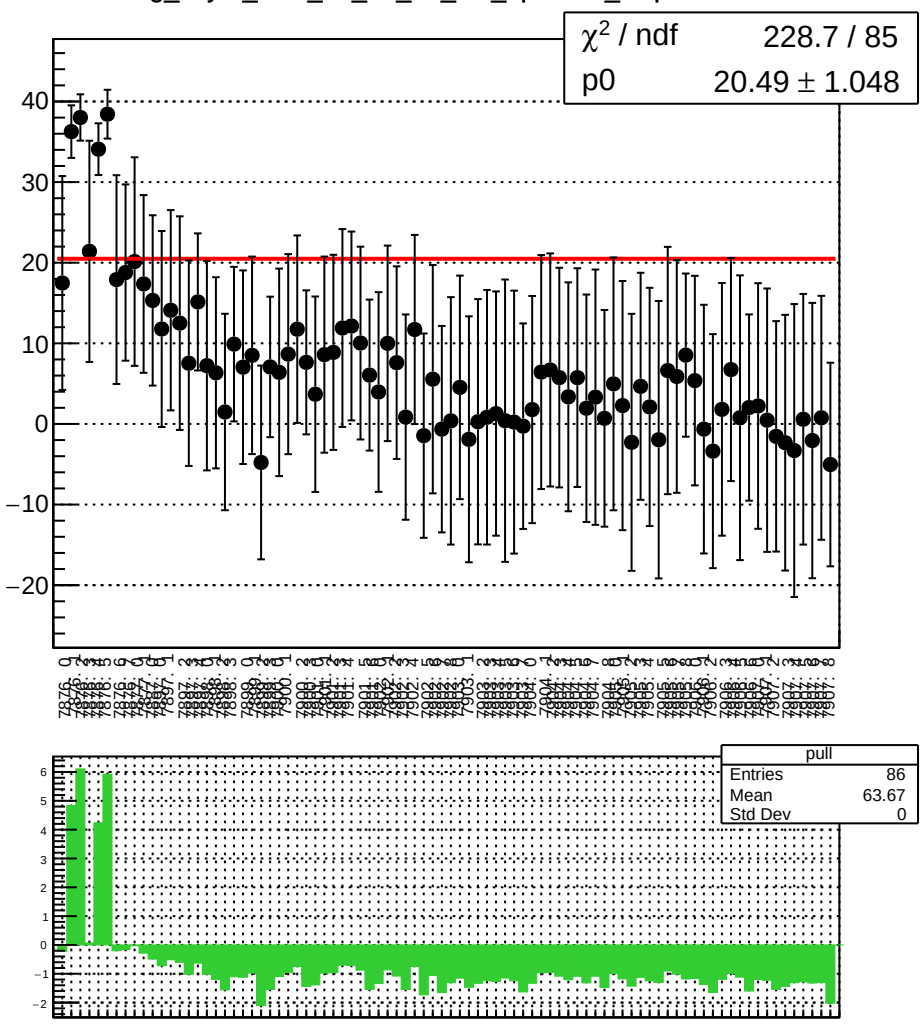

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 420.7 / 85
p0 −30.91 ± 0.6238
pull
Entries 86
Mean 122.1
Std Dev 0

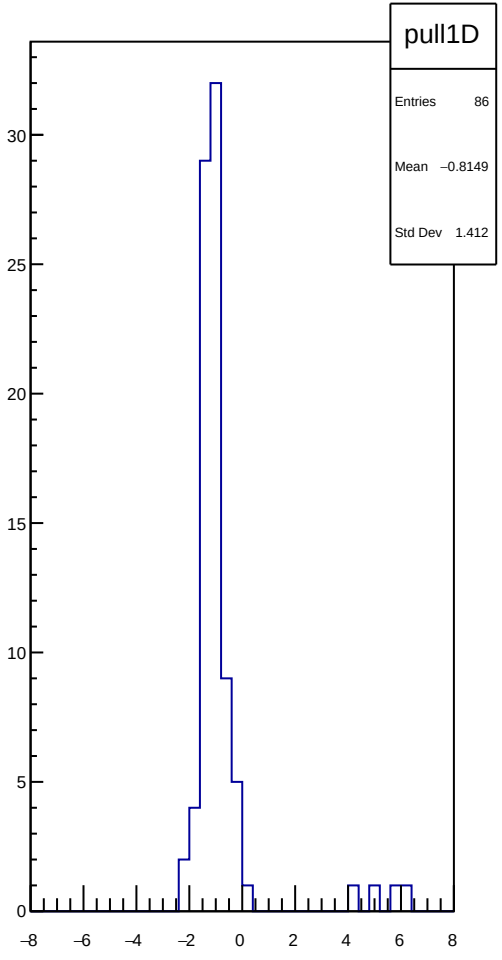

pull1D
Entries 86
Mean 0.5205
Std Dev 1.208

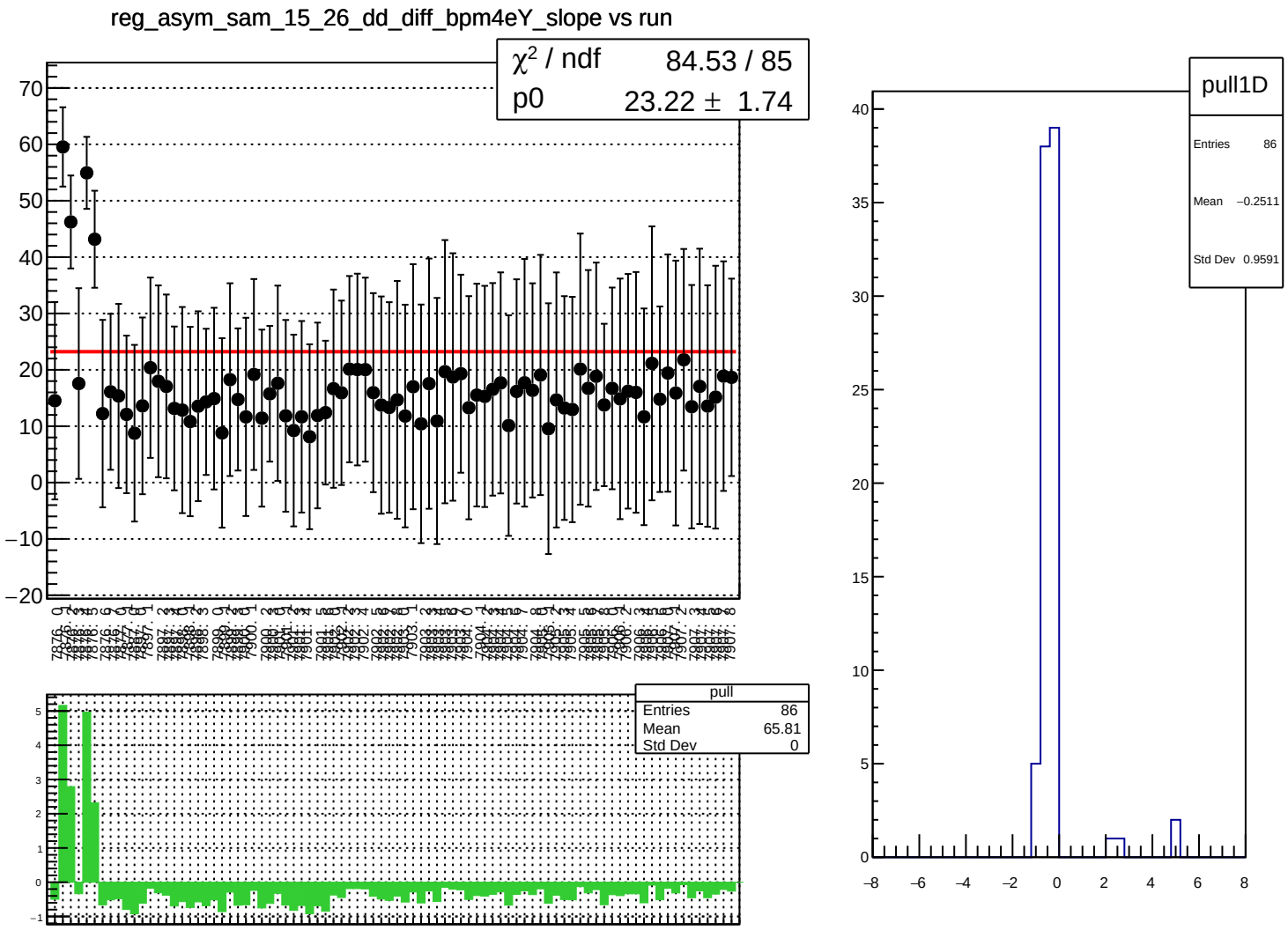

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 35.16 / 85
p0 0.5481± 0.01995
pull
Entries 86
Mean 267.2
Std Dev 0
pull1D
Entries 86
Mean 0.03675
Std Dev 0.6383

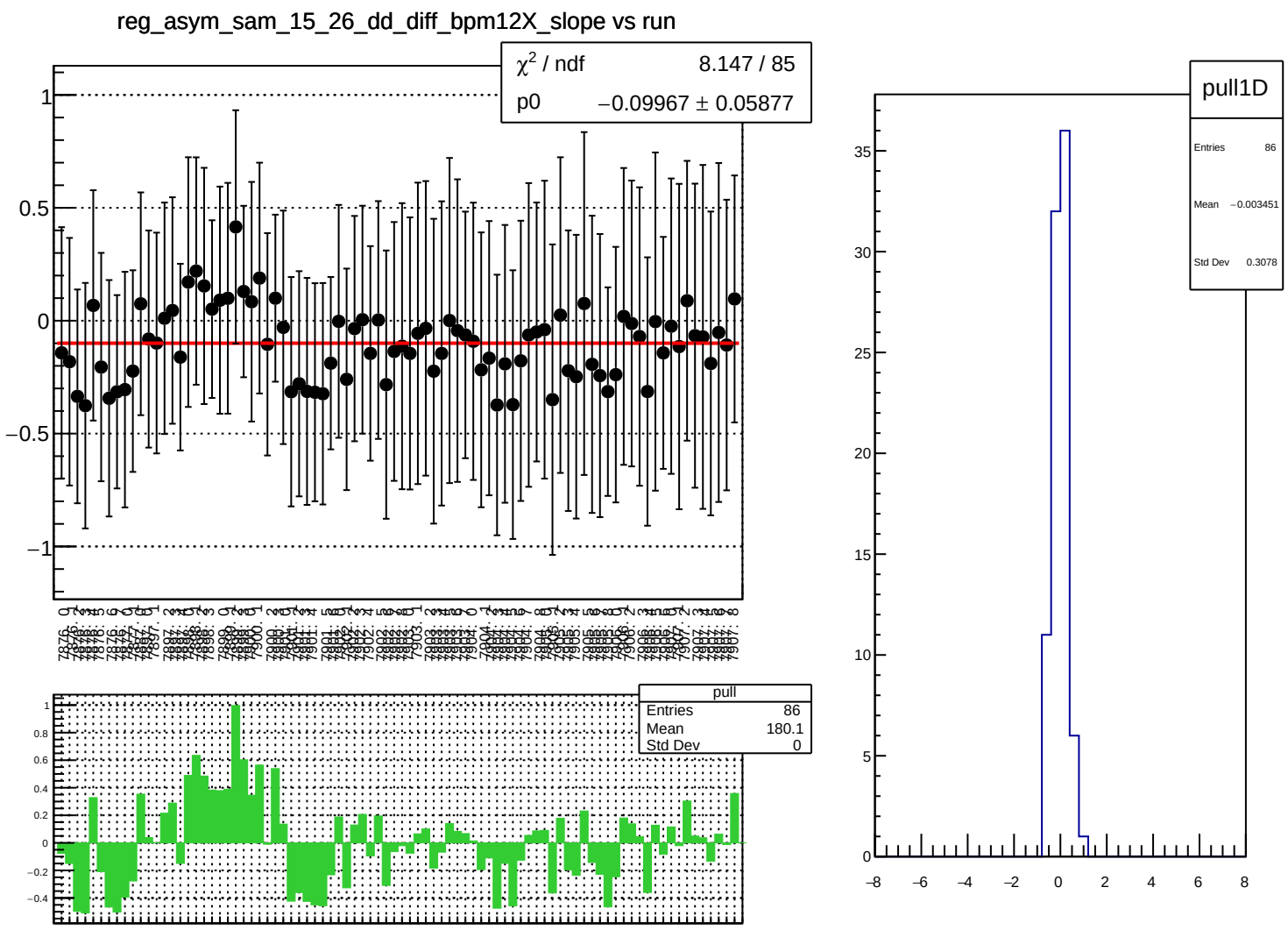

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 190 / 85
p0 18.78 ± 1.304
pull
Entries 86
Mean 64.91
Std Dev 0
pull1D
Entries 86
Mean 0.68
Std Dev 1.322

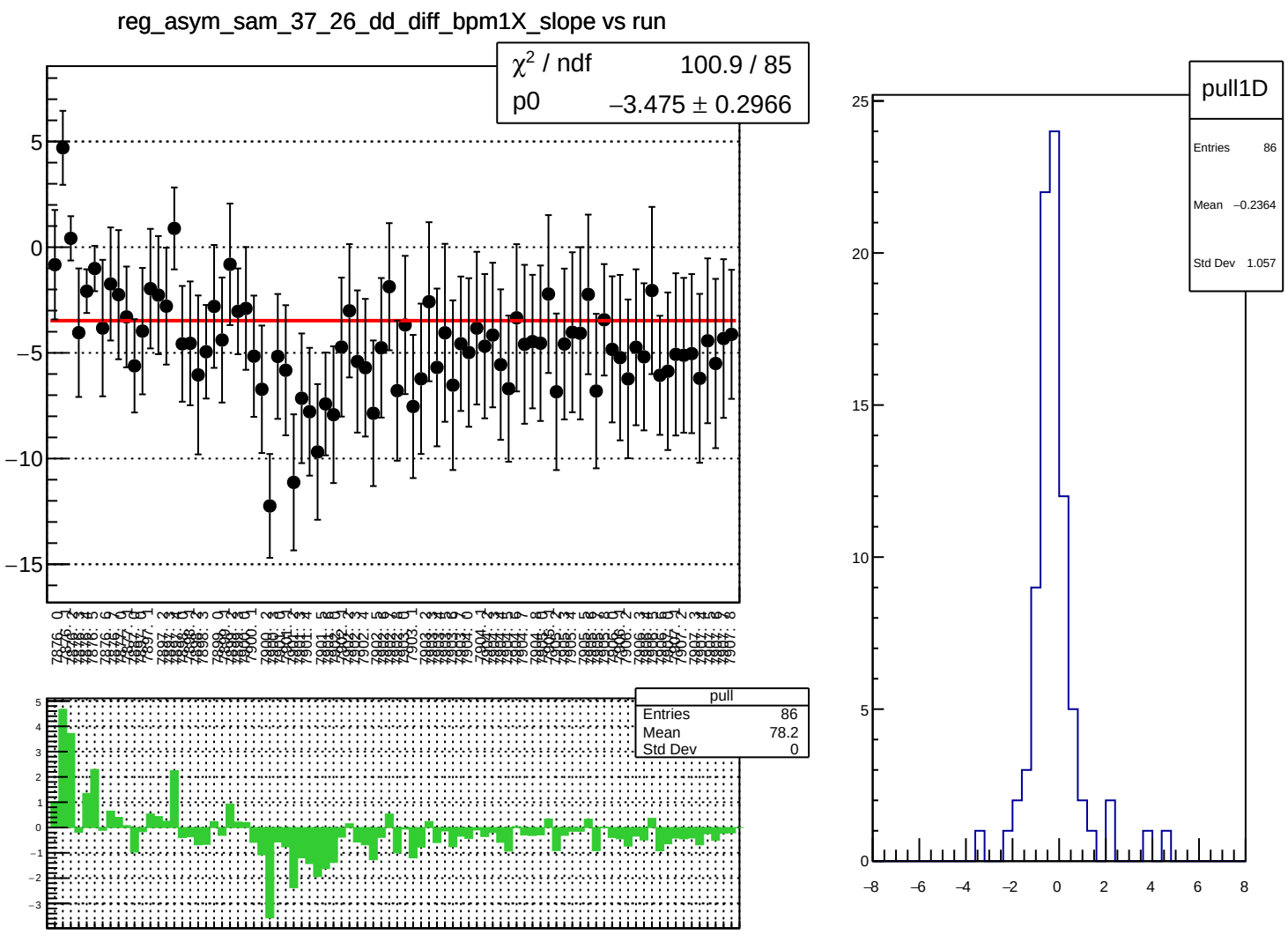

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 110 / 85
p0 13.22 ± 1.399
pull
Entries 86
Mean 55.04
Std Dev 0
pull1D
Entries 86
Mean 0.4036
Std Dev 1.057

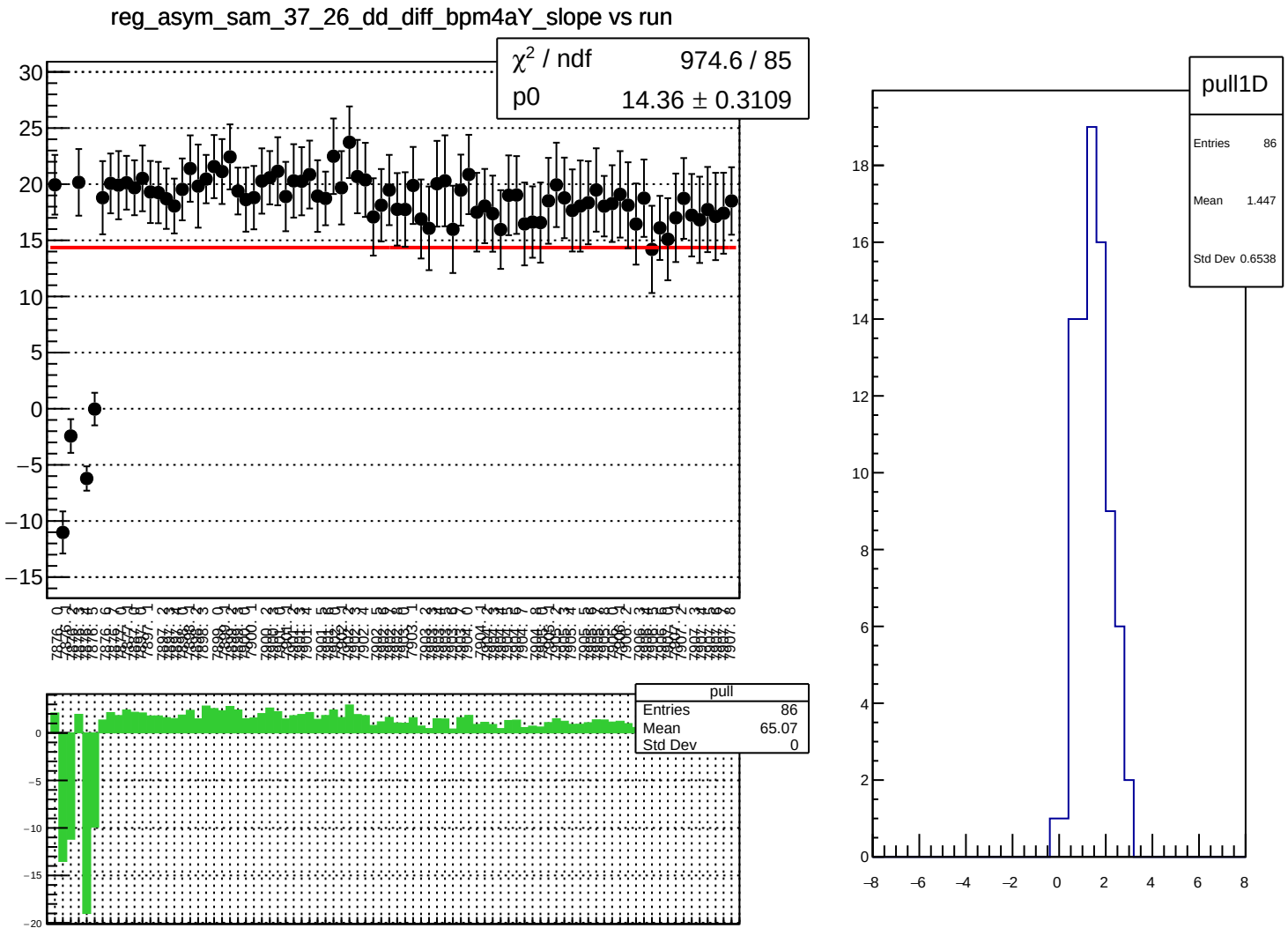

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 228.7 / 85
p0 20.49 ± 1.048
pull
Entries 86
Mean 63.67
Std Dev 0

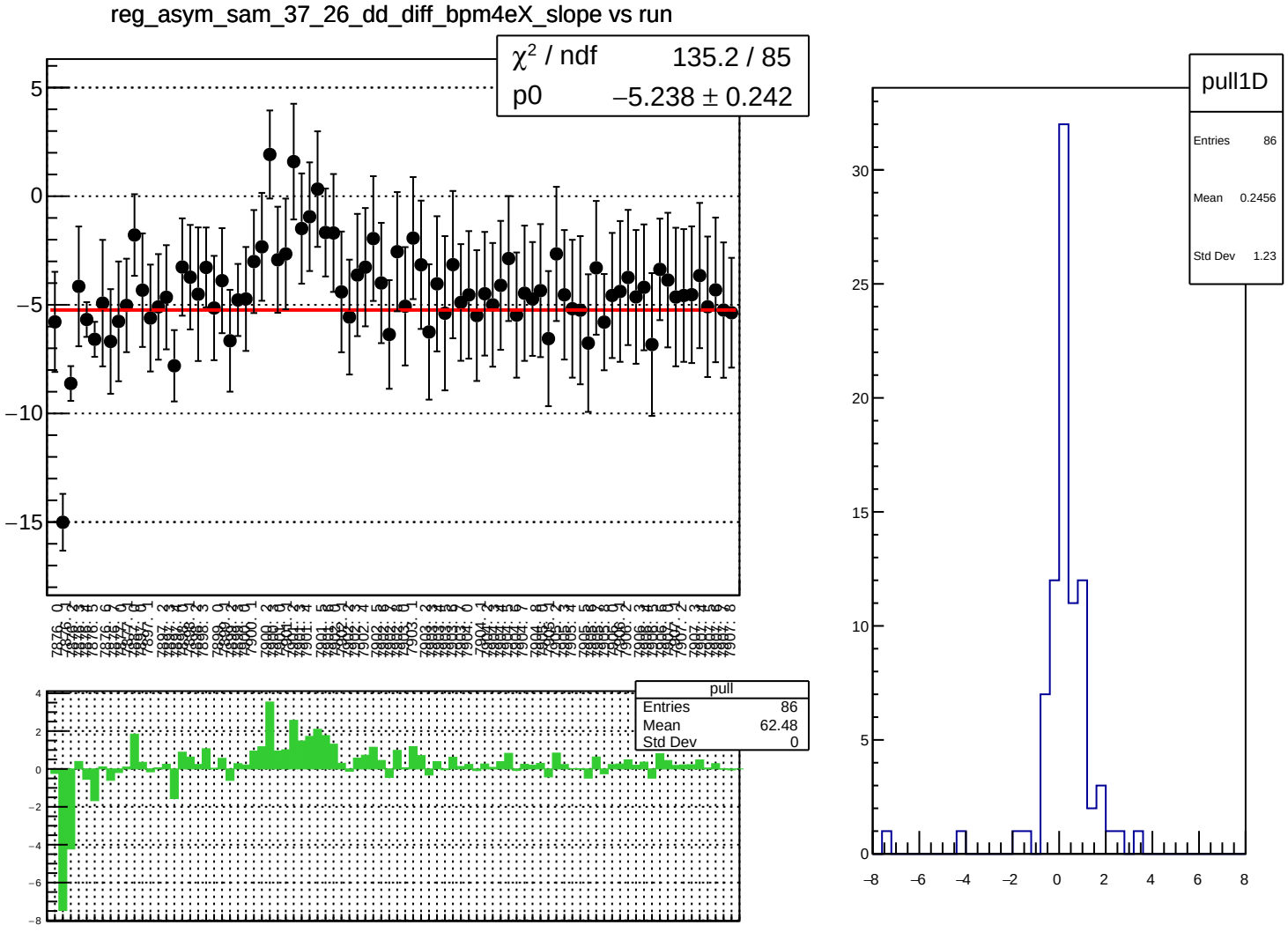

pull1D
Entries 86
Mean −0.8149
Std Dev 1.412

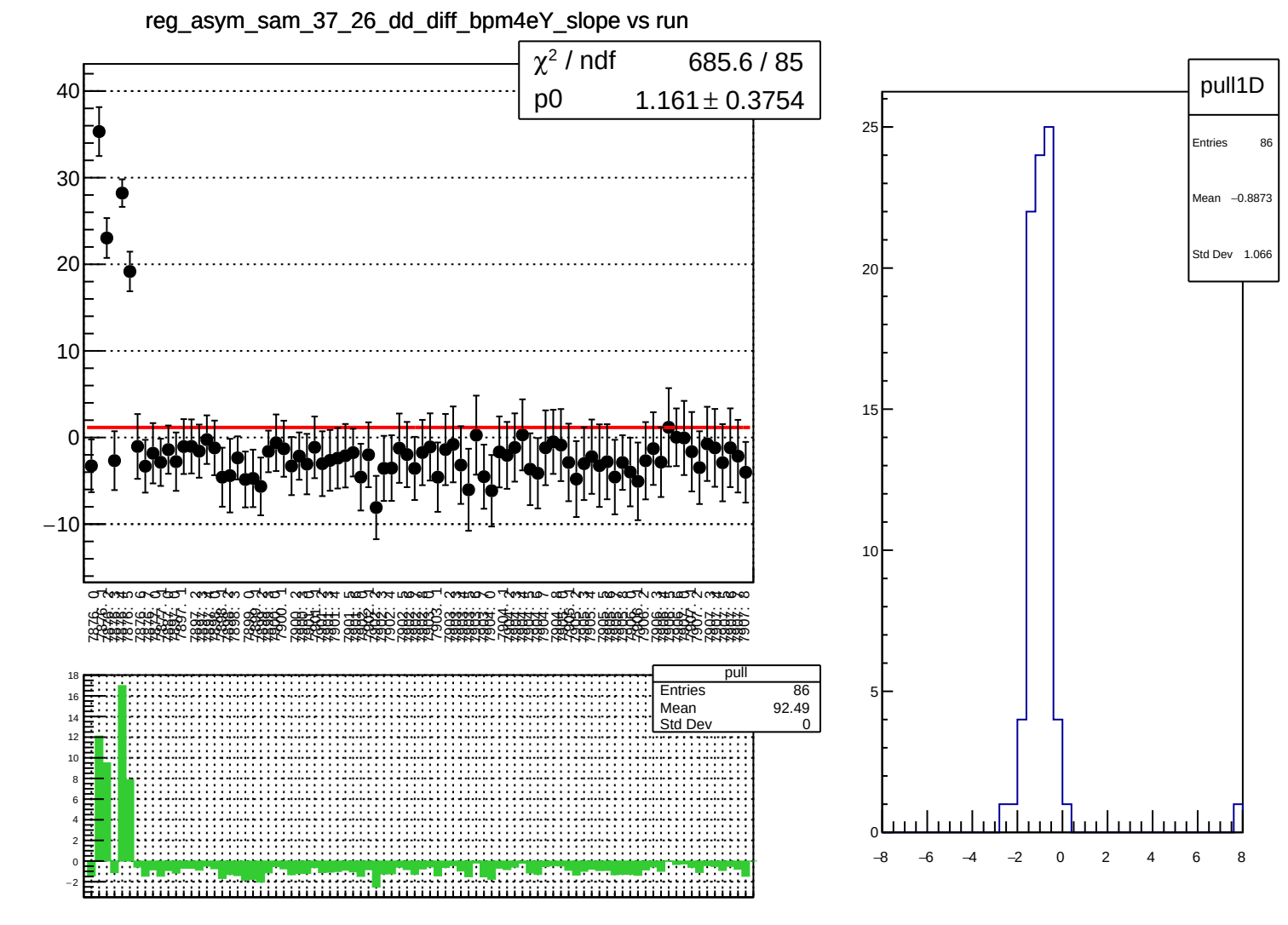

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.53 / 85
p0 23.22 ± 1.74
pull
Entries 86
Mean 65.81
Std Dev 0
pull1D
Entries 86
Mean −0.2511
Std Dev 0.9591

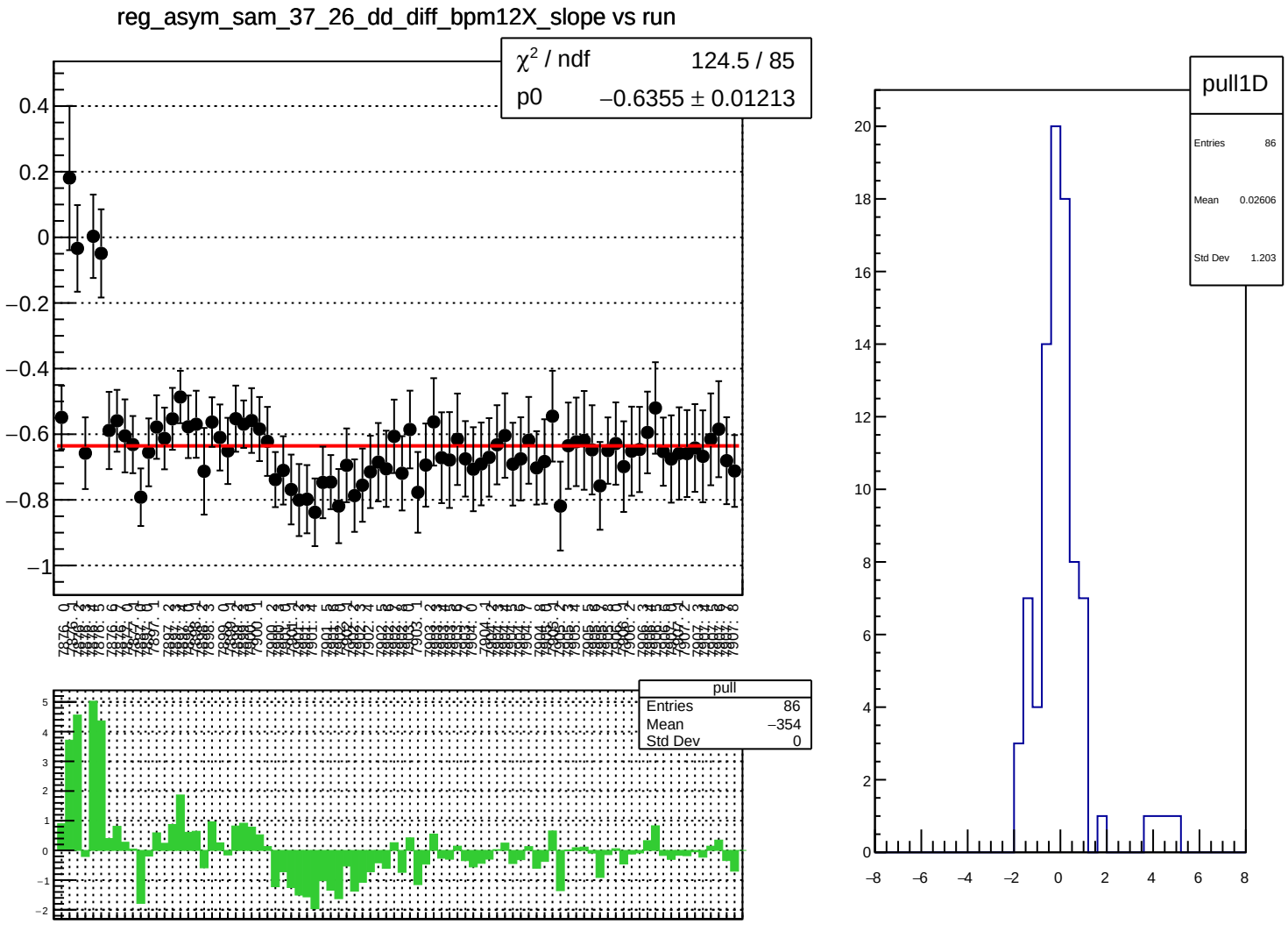

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 8.147 / 85
p0 −0.09967 ± 0.05877
pull
Entries 86
Mean 180.1
Std Dev 0
pull1D
Entries 86
Mean −0.003451
Std Dev 0.3078

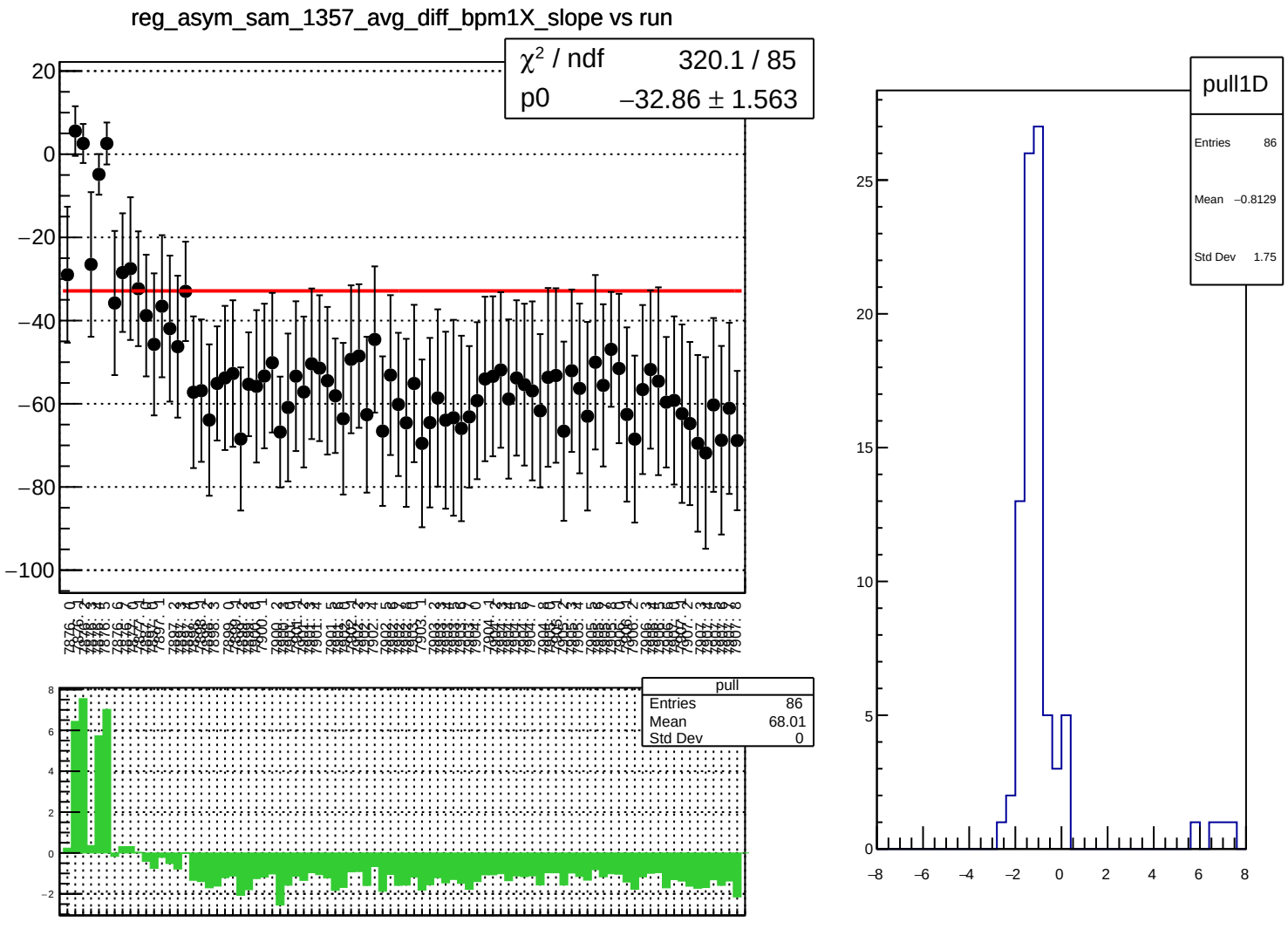

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 100.9 / 85
p0 −3.475 ± 0.2966
pull
Entries 86
Mean 78.2
Std Dev 0
pull1D
Entries 86
Mean −0.2364
Std Dev 1.057

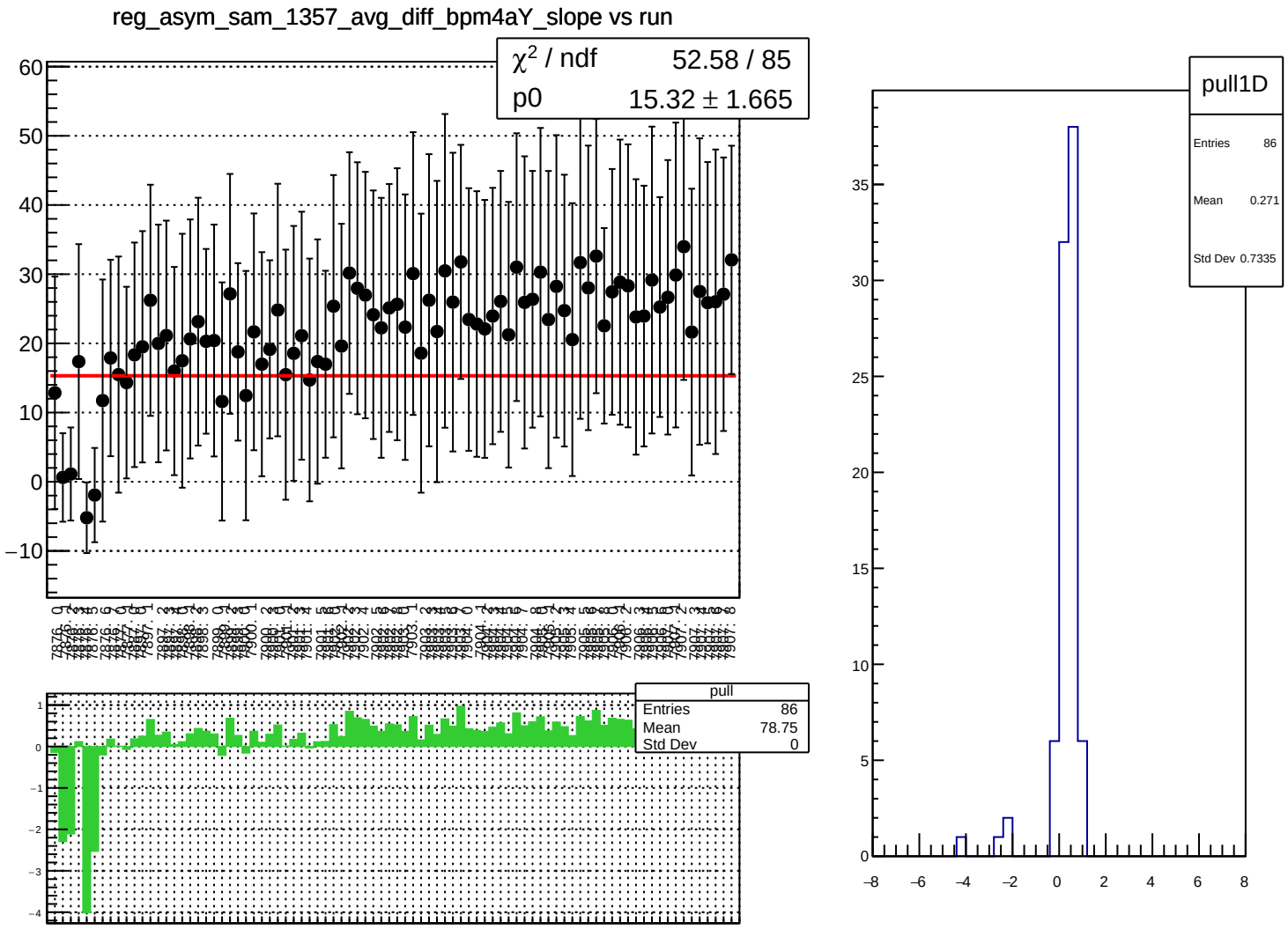

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 974.6 / 85
p0 14.36 ± 0.3109
pull
Entries 86
Mean 65.07
Std Dev 0
pull1D
Entries 86
Mean 1.447
Std Dev 0.6538

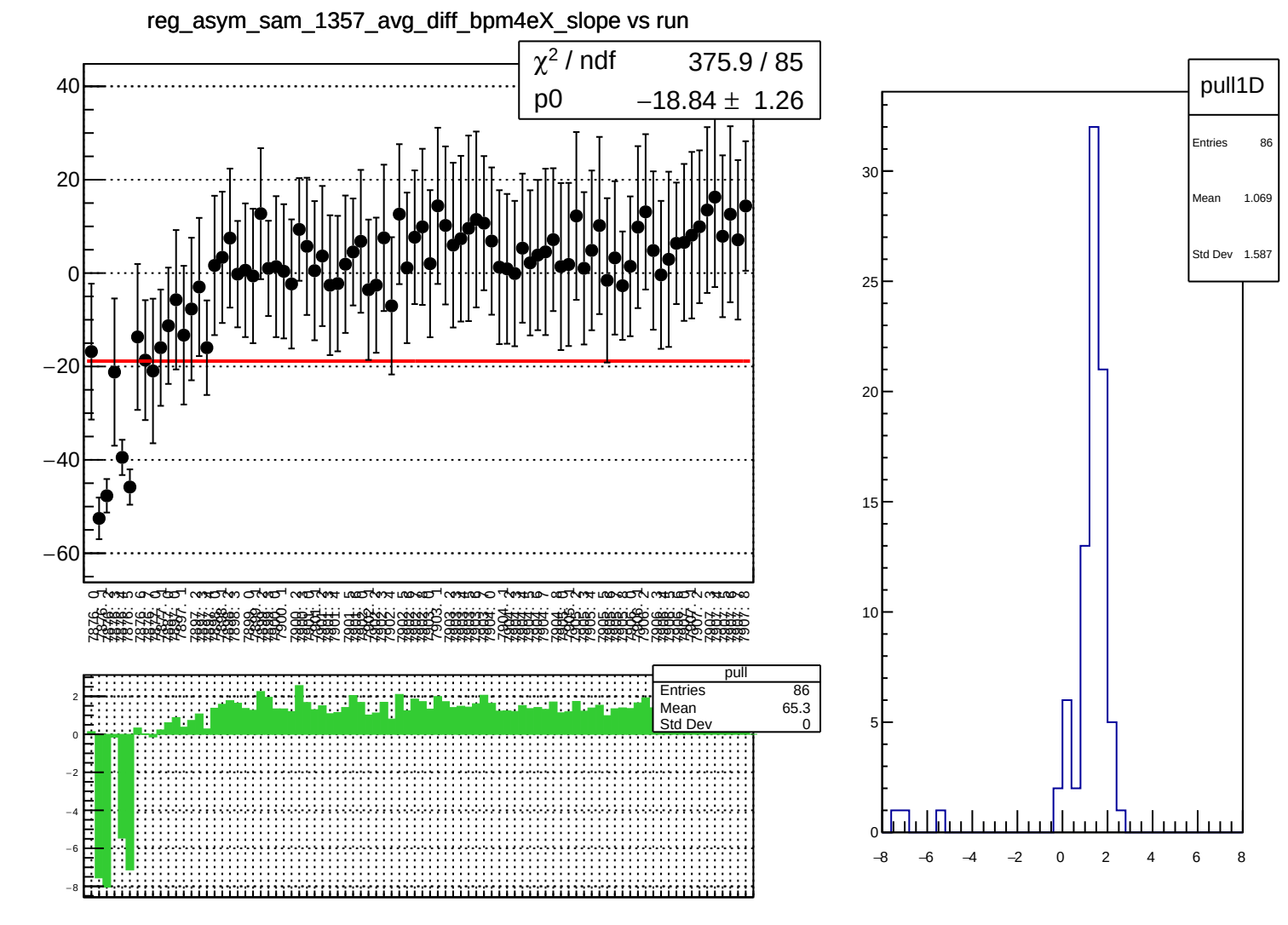

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 135.2 / 85
p0 −5.238 ± 0.242
pull
Entries 86
Mean 62.48
Std Dev 0
pull1D
Entries 86
Mean 0.2456
Std Dev 1.23

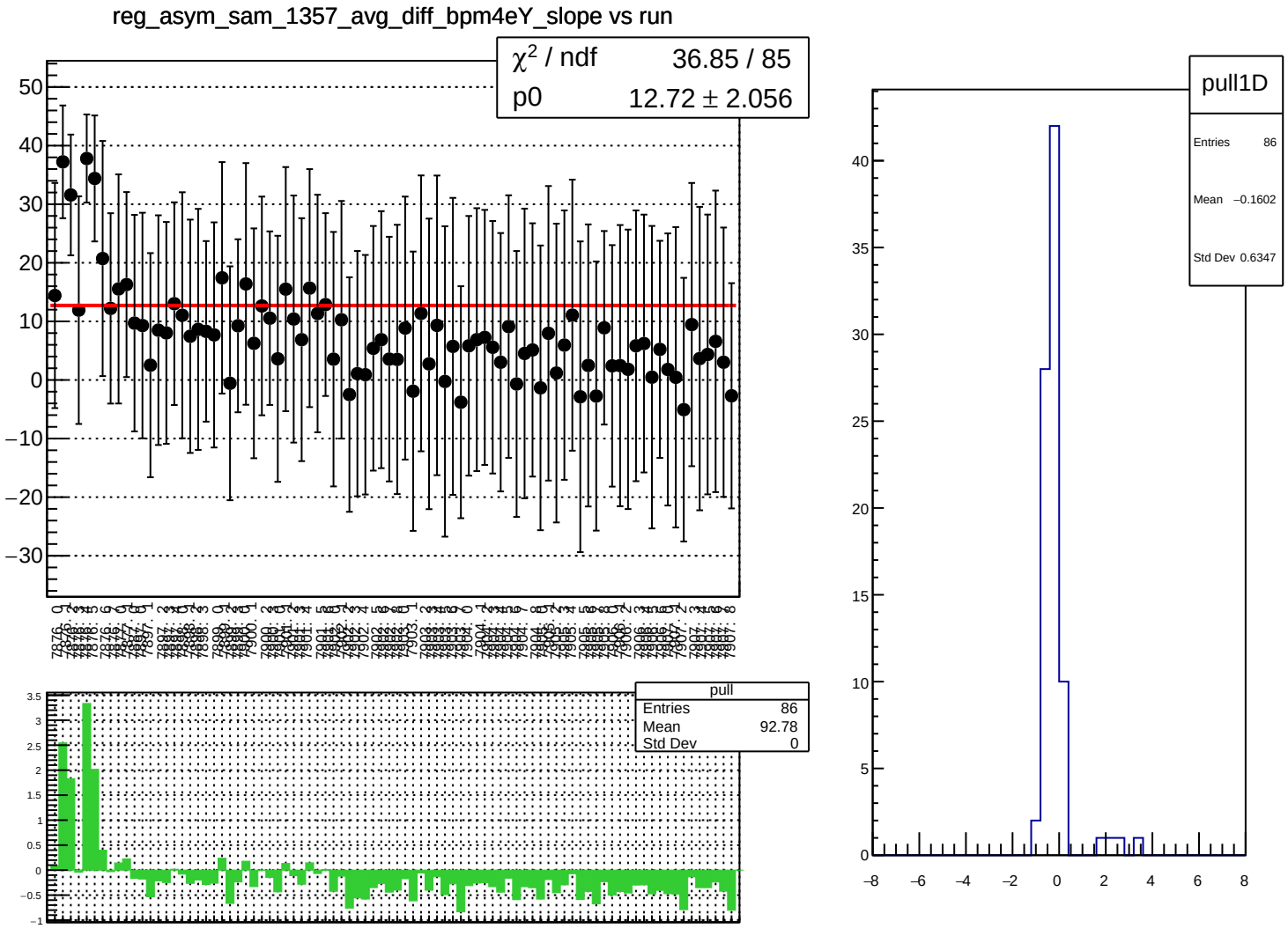

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 685.6 / 85
p0 1.161 ± 0.3754
pull
Entries 86
Mean 92.49
Std Dev 0
pull1D
Entries 86
Mean −0.8873
Std Dev 1.066

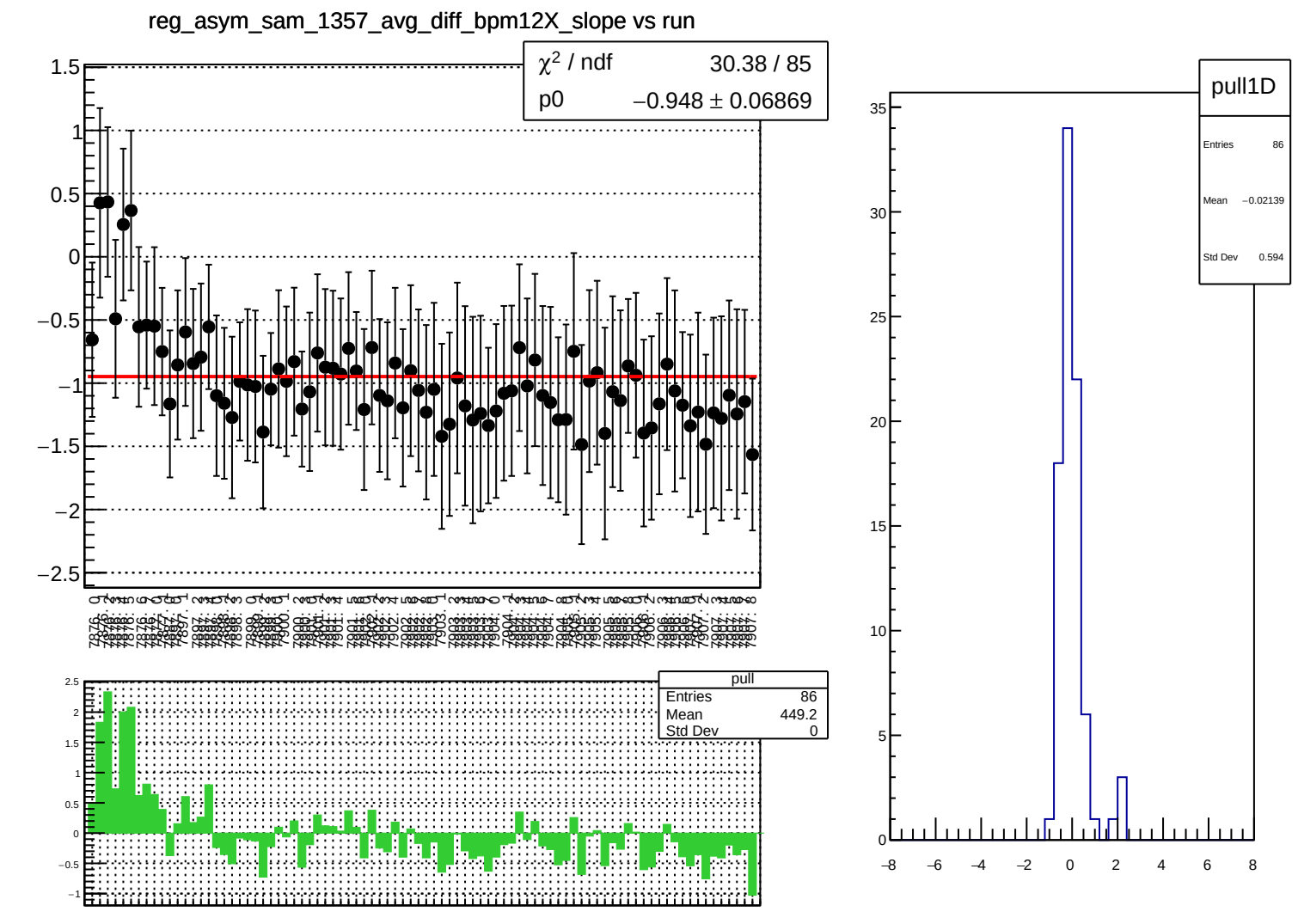

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 124.5 / 85
p0 −0.6355 ± 0.01213
pull
Entries 86
Mean −354
Std Dev 0
pull1D
Entries 86
Mean 0.02606
Std Dev 1.203

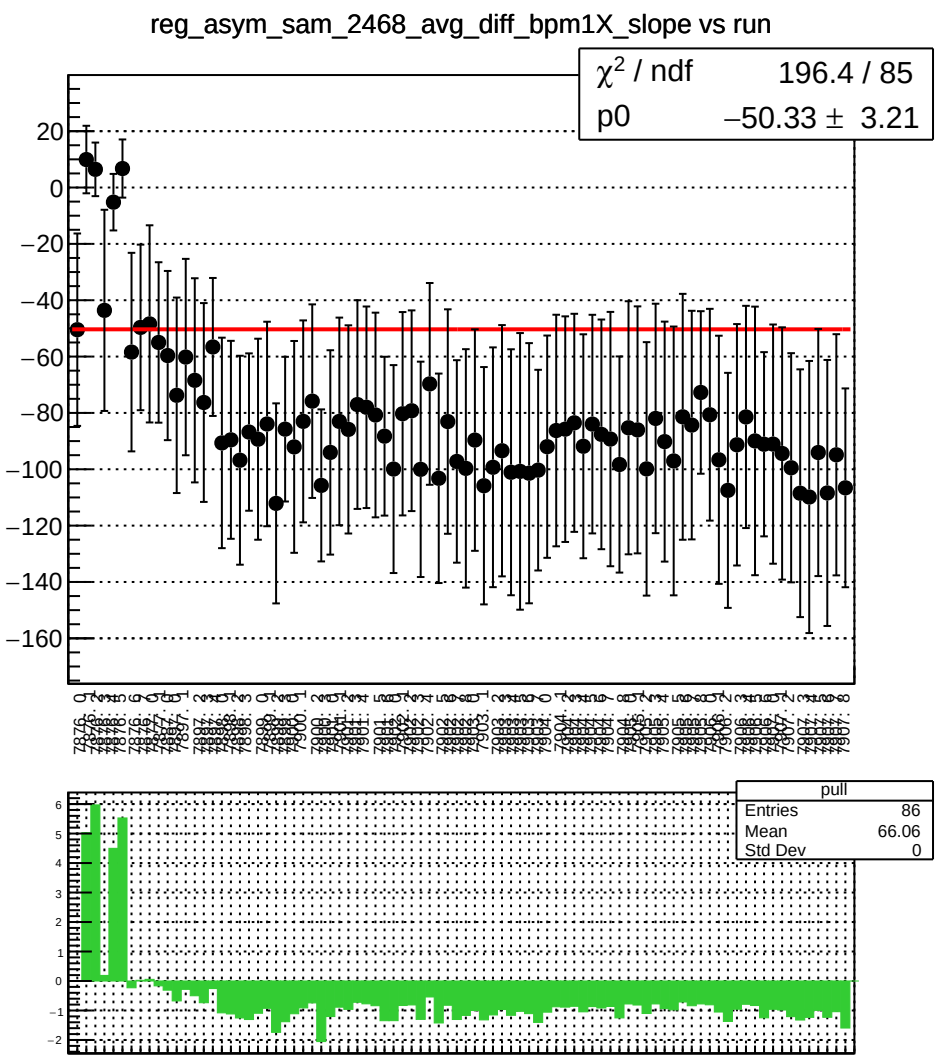

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 320.1 / 85
p0 −32.86 ± 1.563
pull
Entries 86
Mean 68.01
Std Dev 0
pull1D
Entries 86
Mean −0.8129
Std Dev 1.75

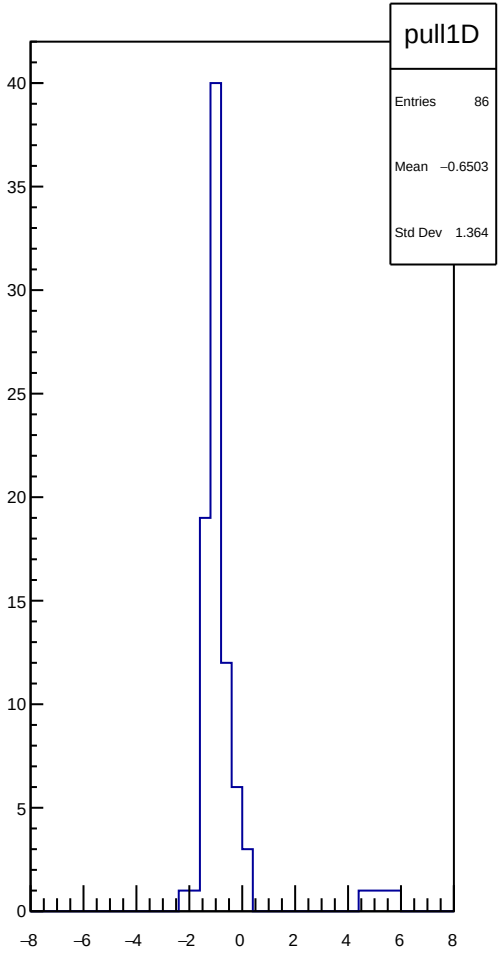

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.58 / 85
p0 15.32 ± 1.665
pull
Entries 86
Mean 78.75
Std Dev 0
pull1D
Entries 86
Mean 0.271
Std Dev 0.7335

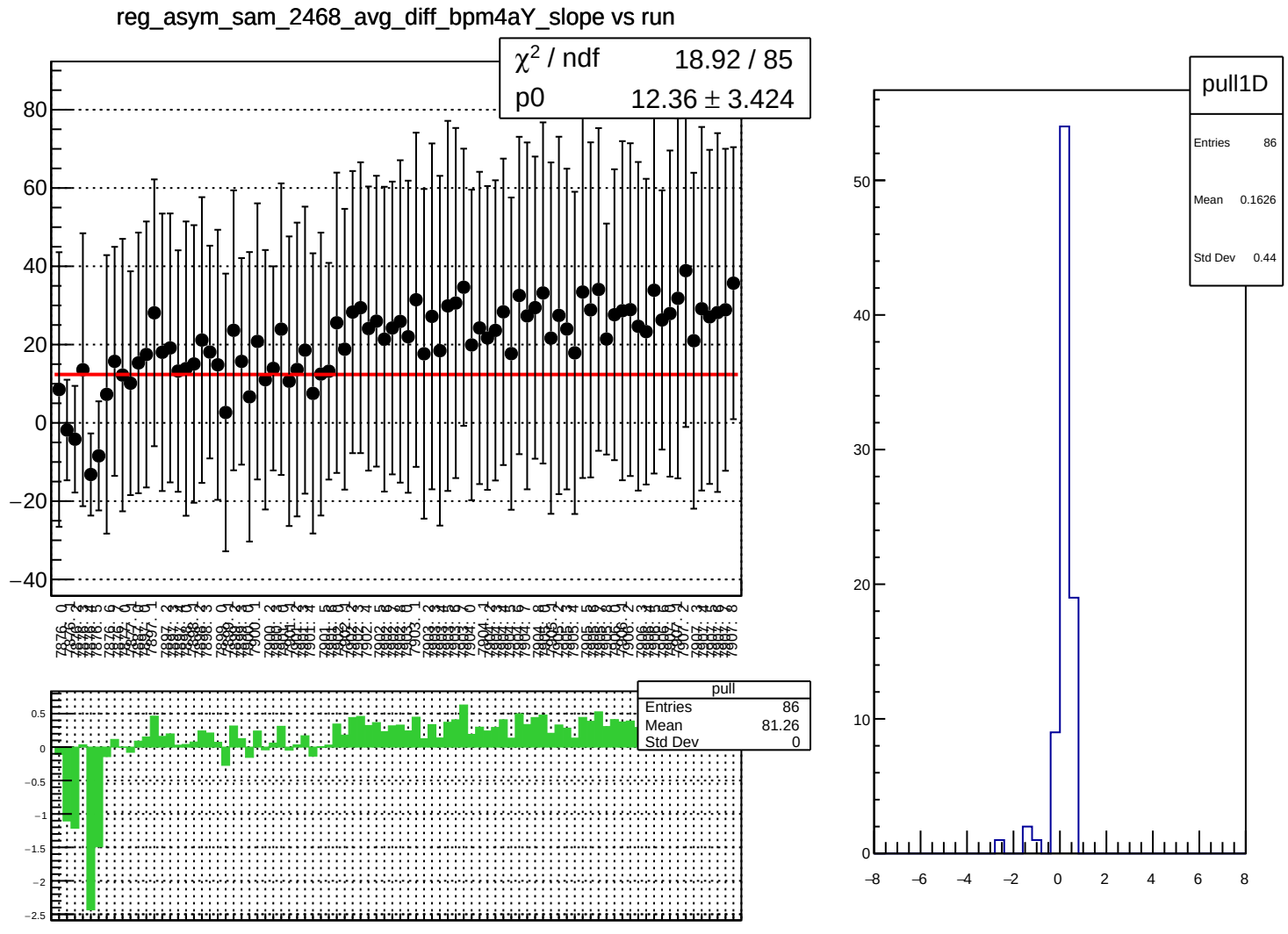

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 375.9 / 85
p0 −18.84 ± 1.26
pull
Entries 86
Mean 65.3
Std Dev 0
pull1D
Entries 86
Mean 1.069
Std Dev 1.587

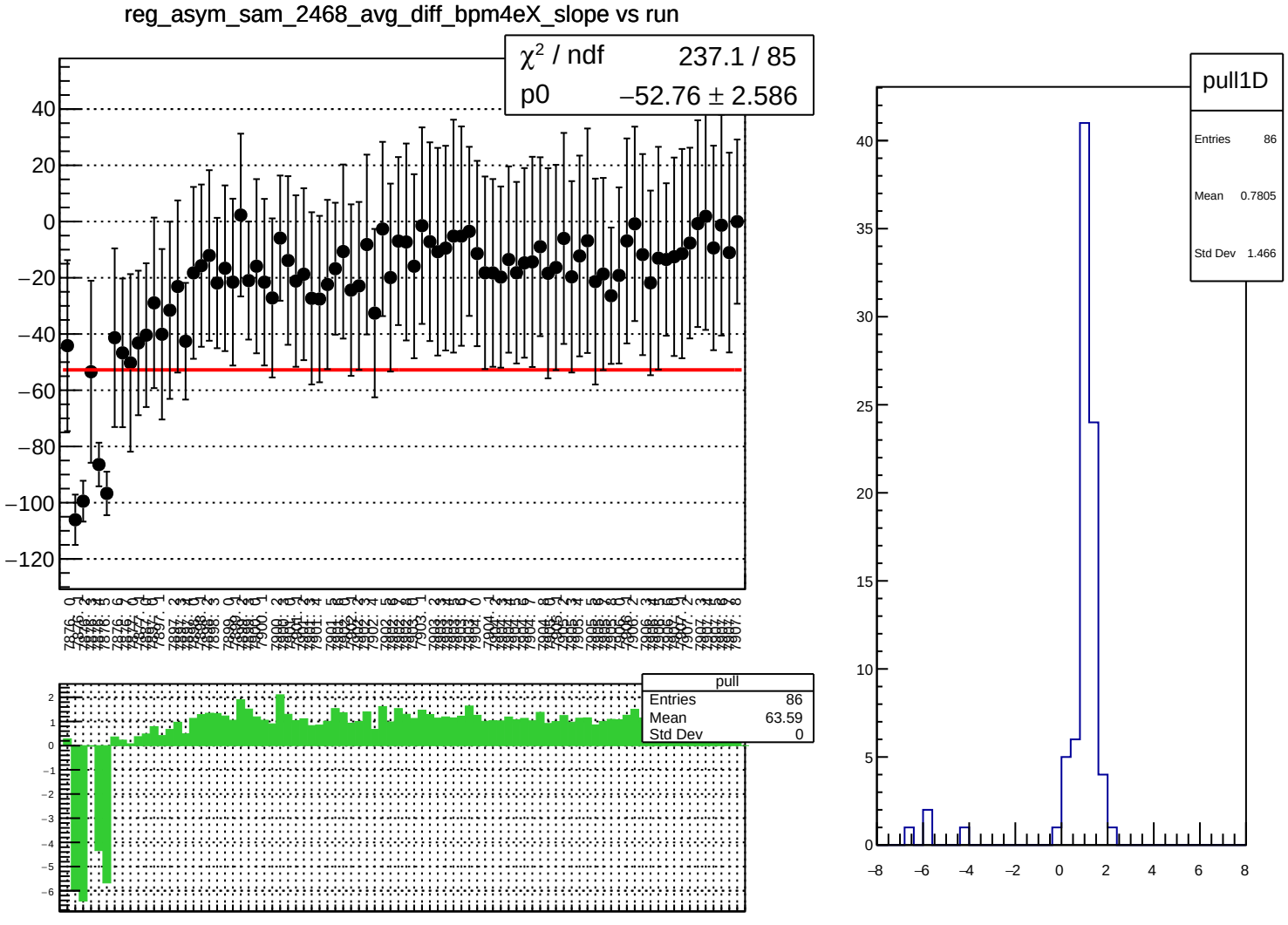

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.85 / 85
p0 12.72 ± 2.056
pull
Entries 86
Mean 92.78
Std Dev 0
pull1D
Entries 86
Mean −0.1602
Std Dev 0.6347

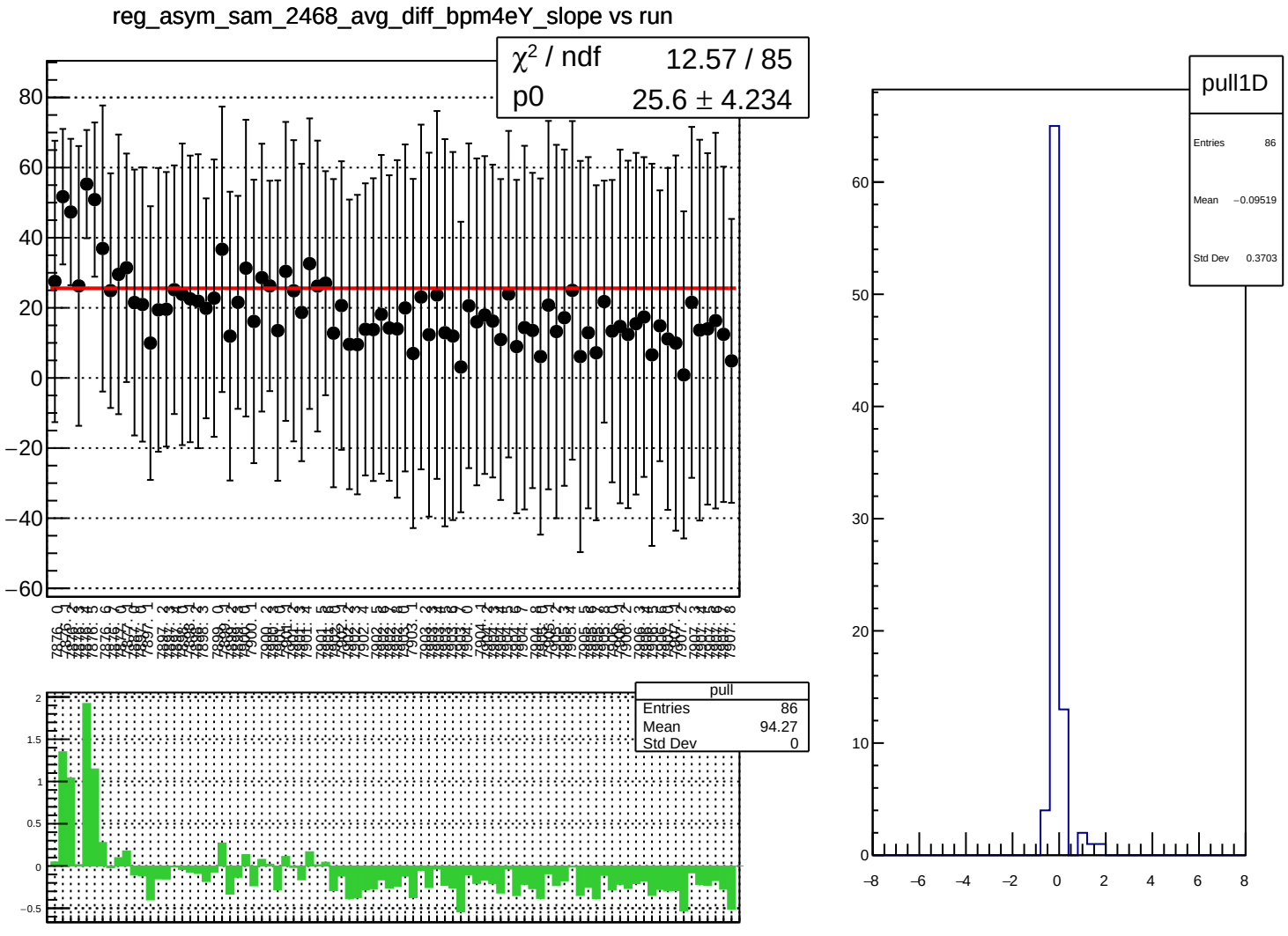

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 30.38 / 85
p0 −0.948 ± 0.06869
pull
Entries 86
Mean 449.2
Std Dev 0
pull1D
Entries 86
Mean −0.02139
Std Dev 0.594

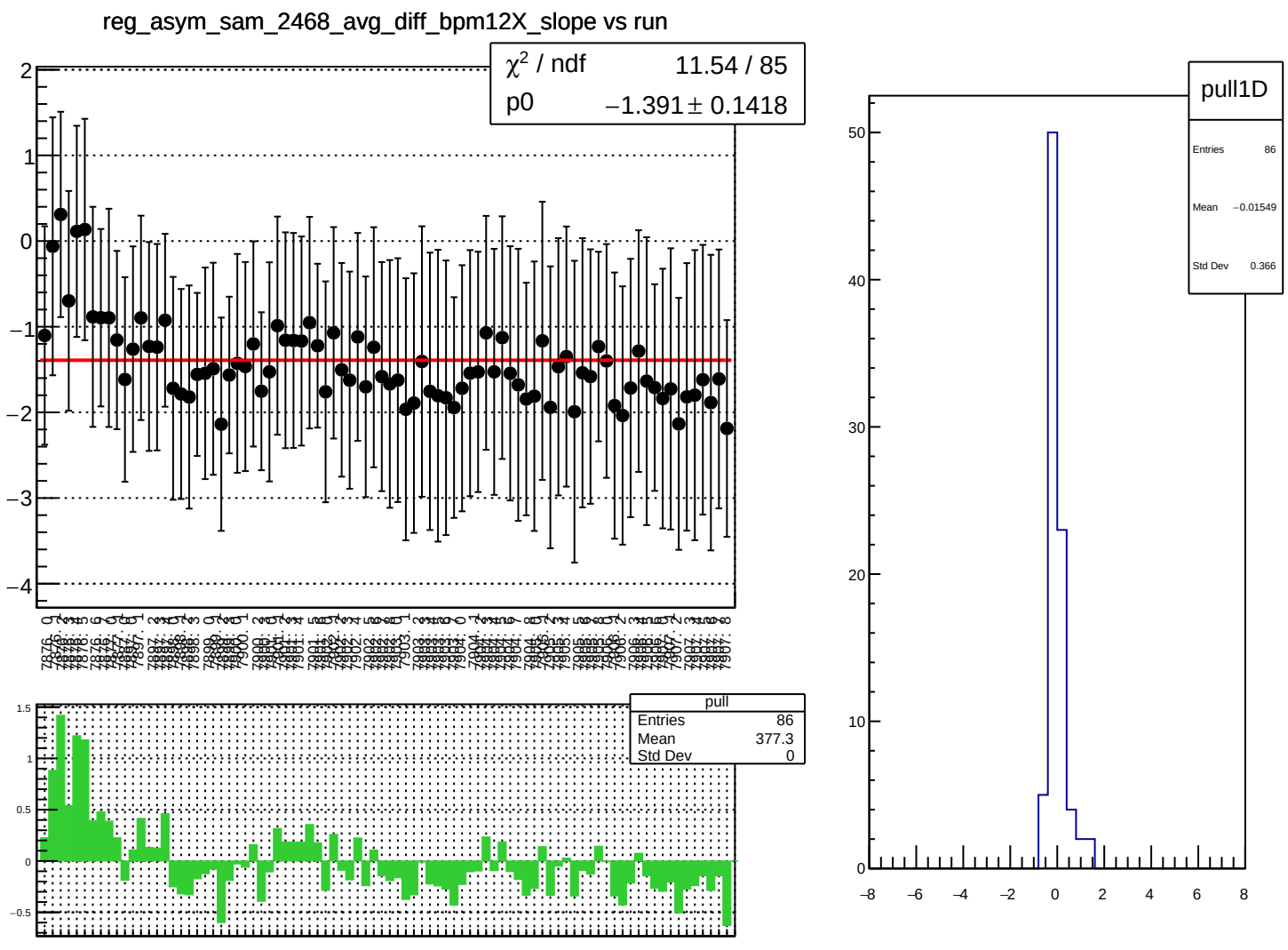

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 196.4 / 85
p0 −50.33 ± 3.21
pull
Entries 86
Mean 66.06
Std Dev 0

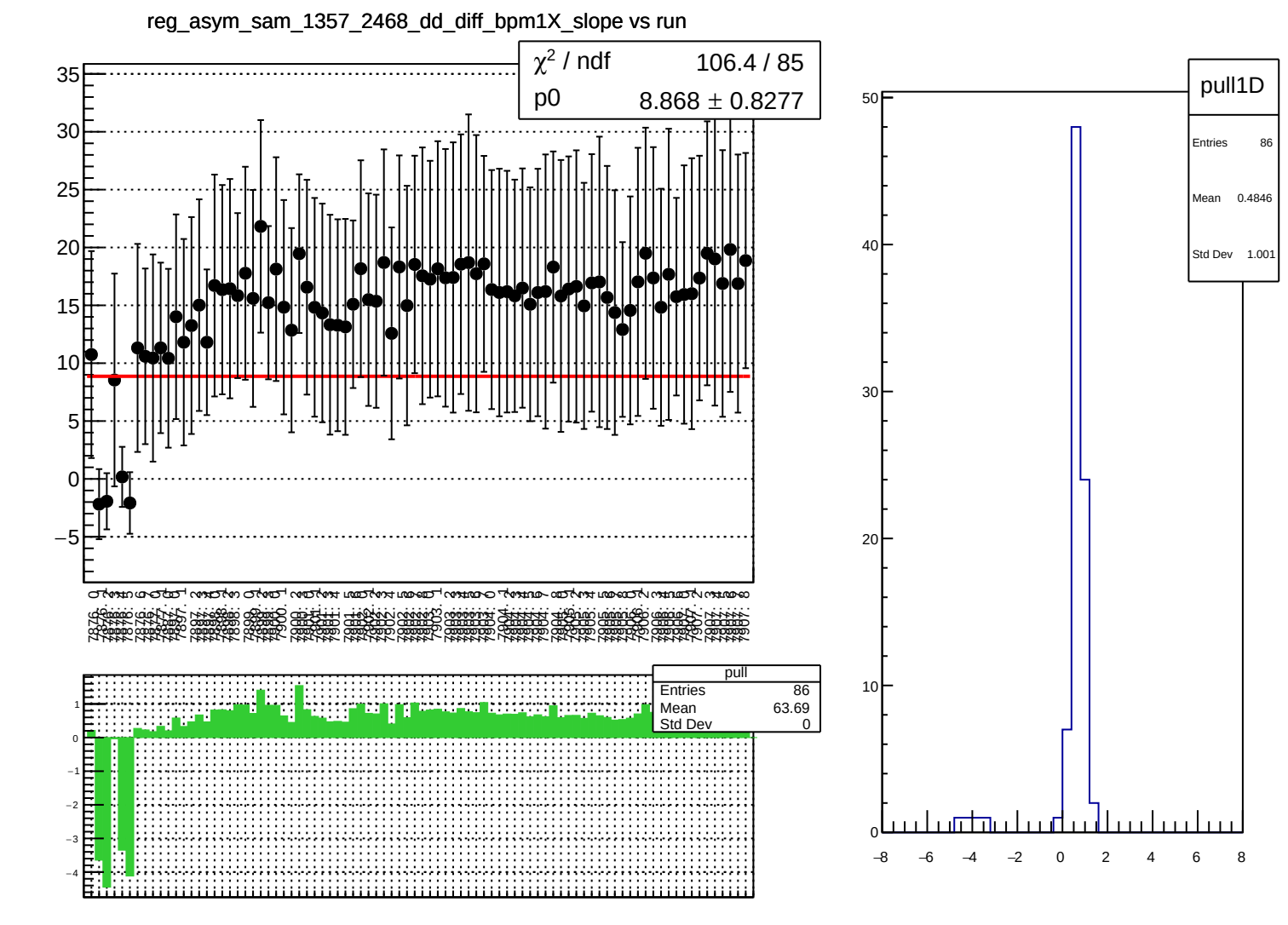

pull1D
Entries 86
Mean −0.6503
Std Dev 1.364

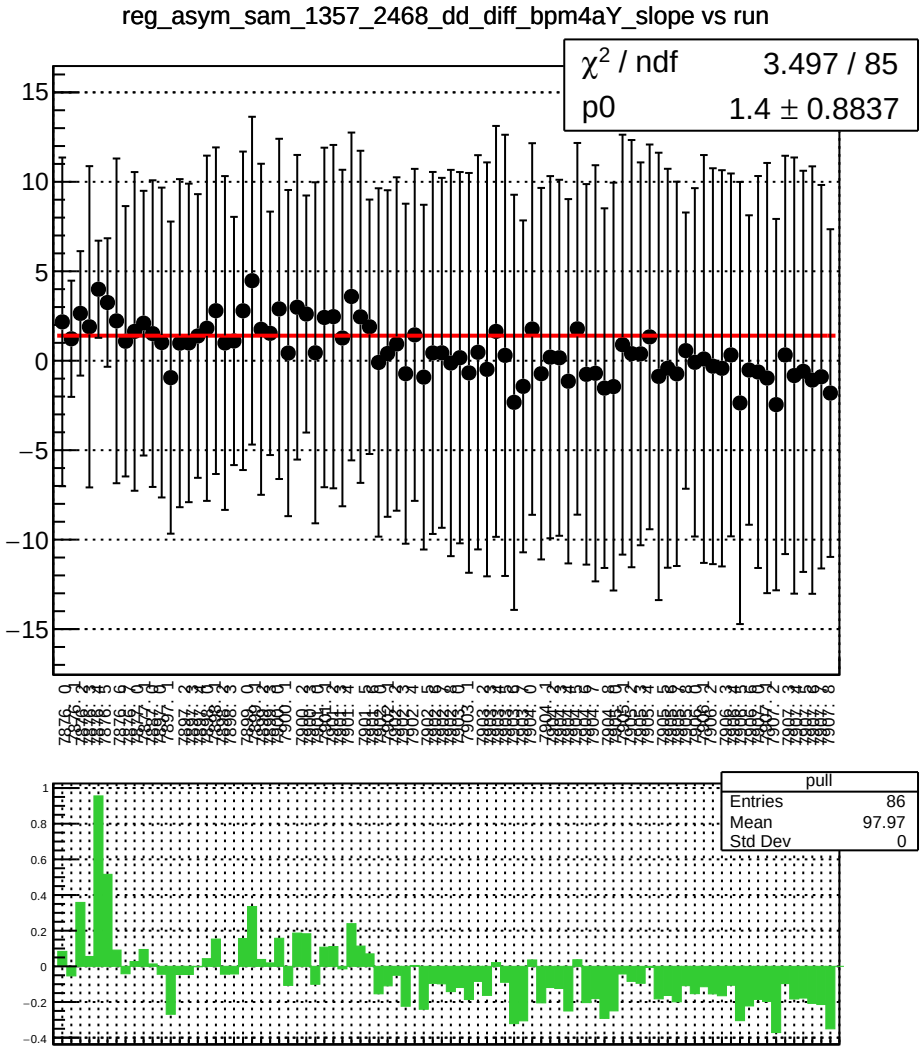

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.92 / 85
p0 12.36 ± 3.424
pull
Entries 86
Mean 81.26
Std Dev 0
pull1D
Entries 86
Mean 0.1626
Std Dev 0.44

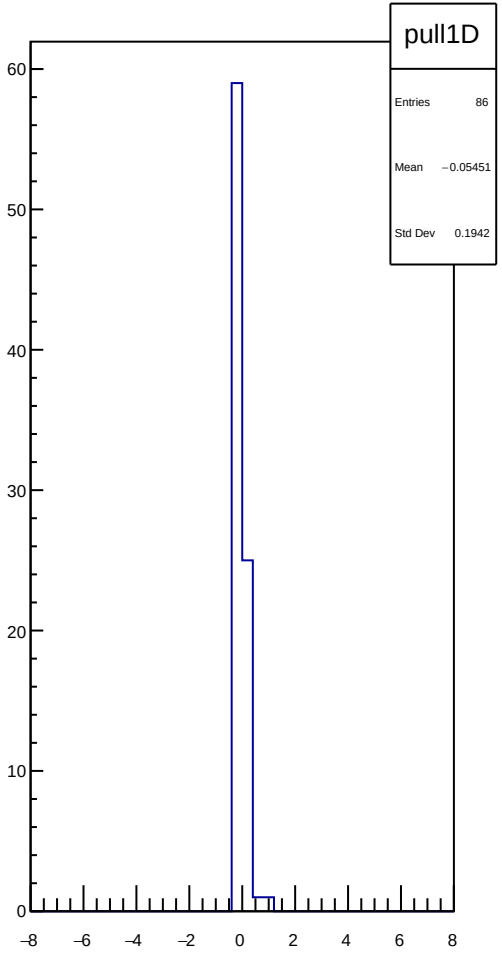

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 237.1 / 85
p0 −52.76 ± 2.586
pull
Entries 86
Mean 63.59
Std Dev 0
pull1D
Entries 86
Mean 0.7805
Std Dev 1.466

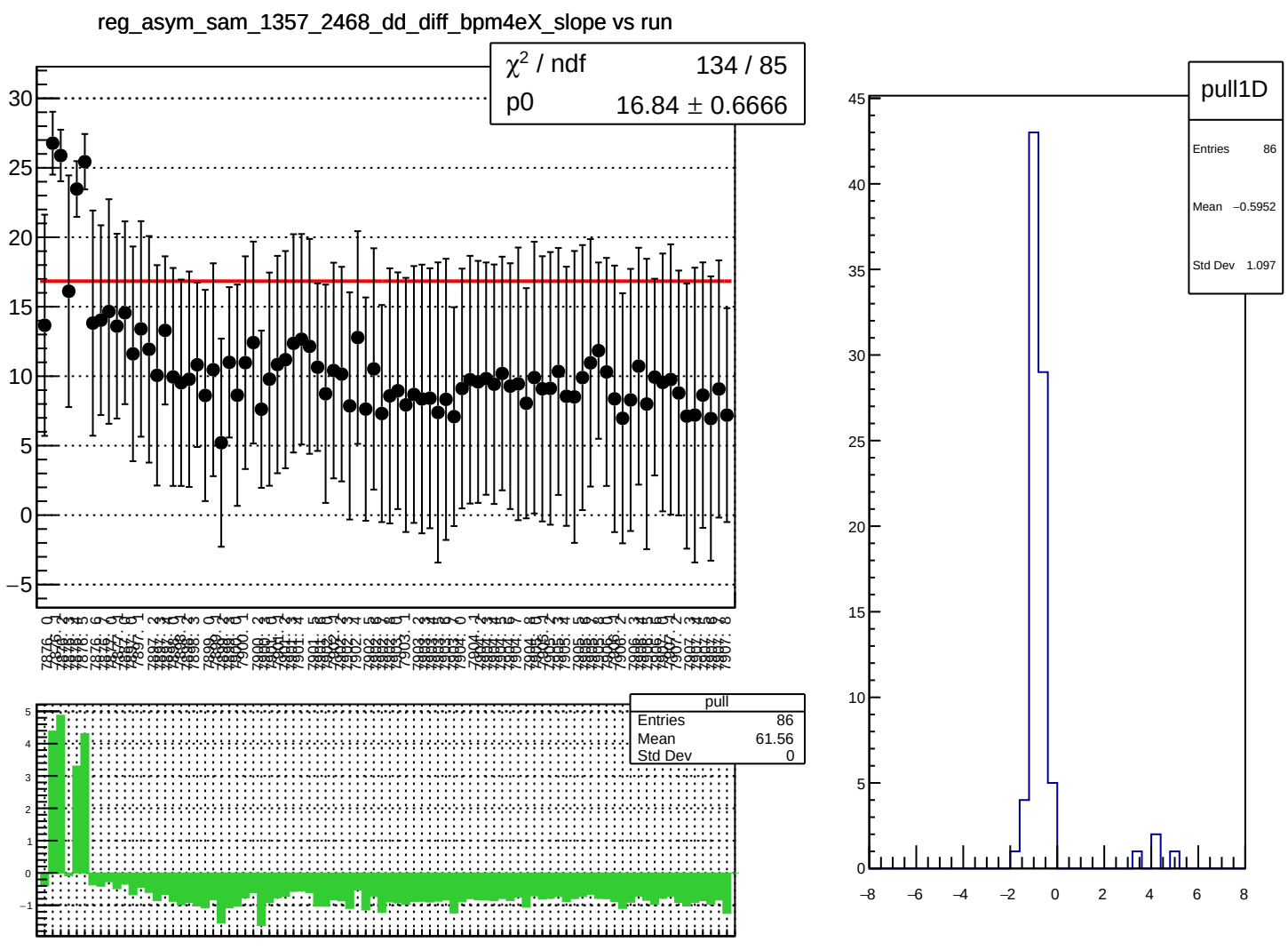

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.57 / 85
p0 25.6 ± 4.234
pull
Entries 86
Mean 94.27
Std Dev 0
pull1D
Entries 86
Mean −0.09519
Std Dev 0.3703

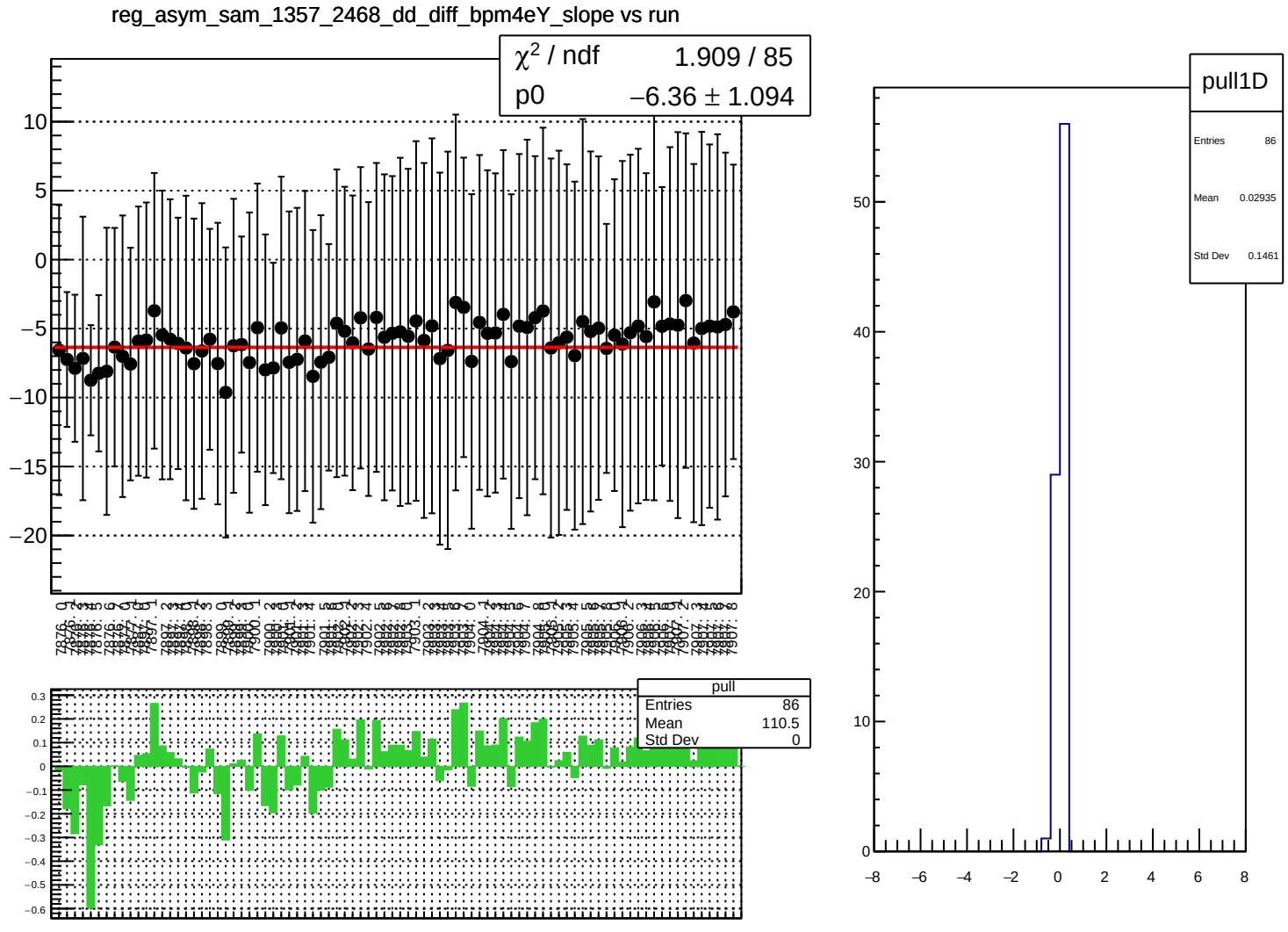

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 11.54 / 85
p0 −1.391 ± 0.1418
pull
Entries 86
Mean 377.3
Std Dev 0
pull1D
Entries 86
Mean −0.01549
Std Dev 0.366

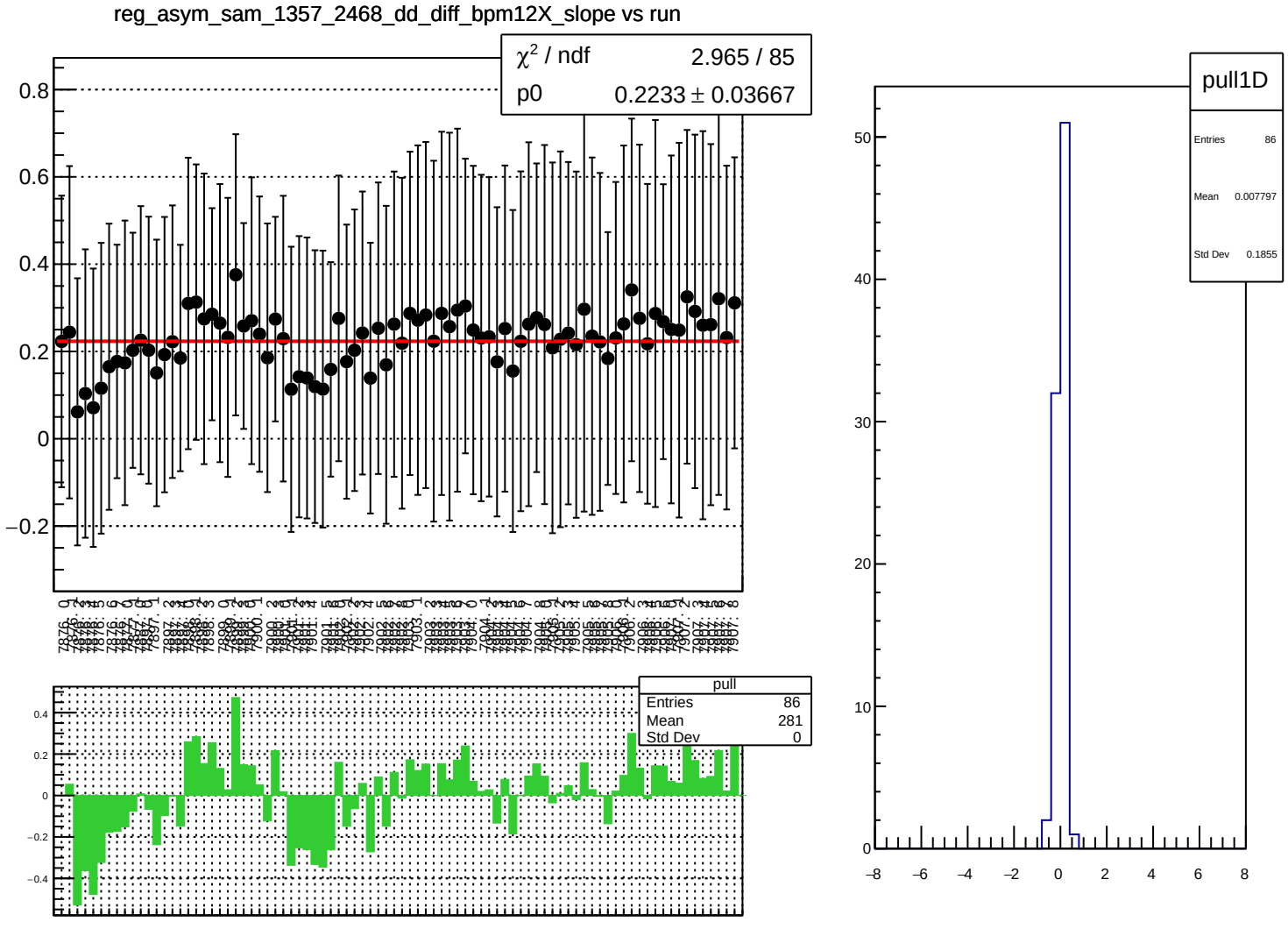

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 106.4 / 85
p0 8.868 ± 0.8277
pull
Entries 86
Mean 63.69
Std Dev 0
pull1D
Entries 86
Mean 0.4846
Std Dev 1.001

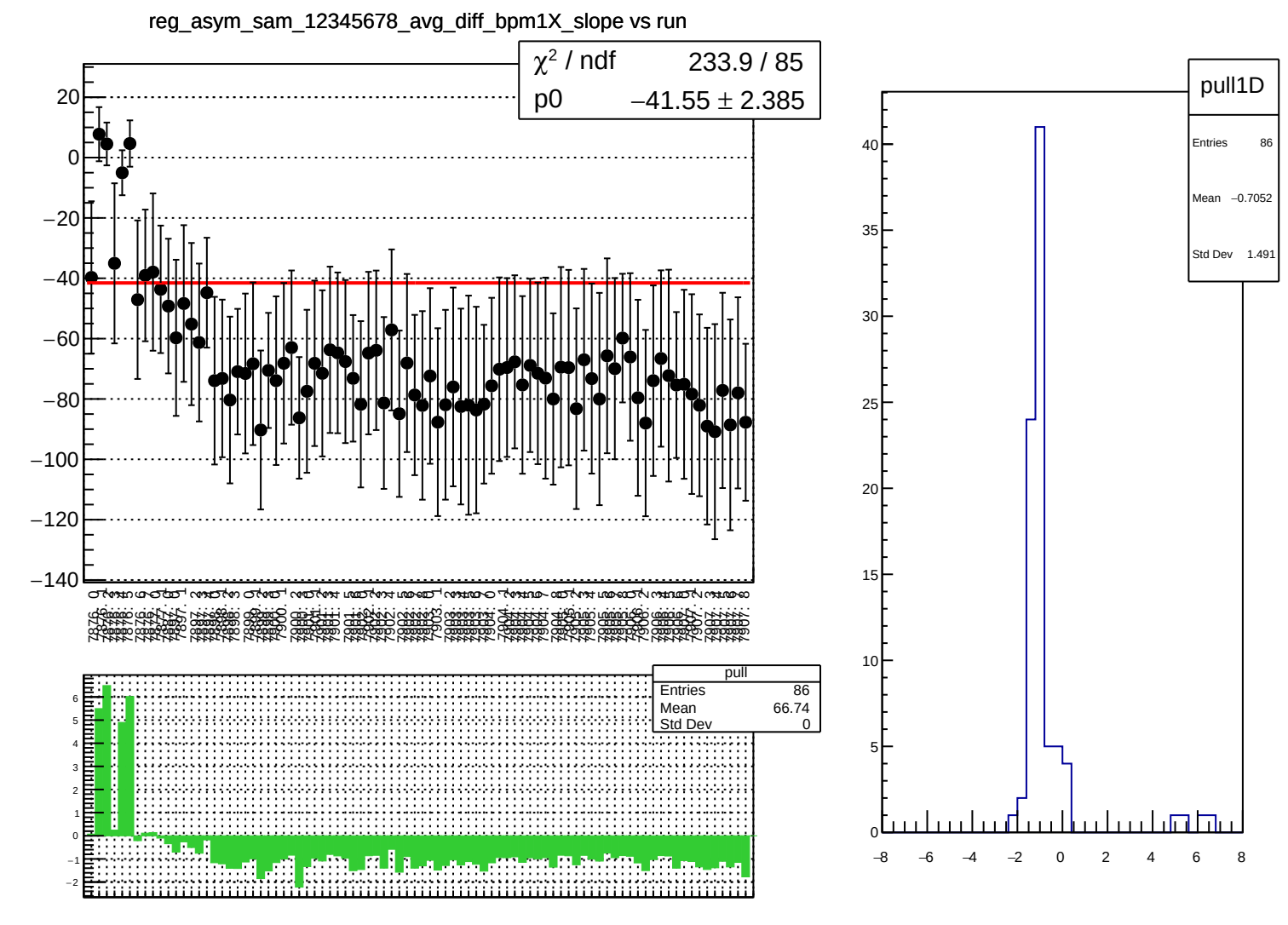

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.497 / 85
p0 1.4 ± 0.8837
pull
Entries 86
Mean 97.97
Std Dev 0

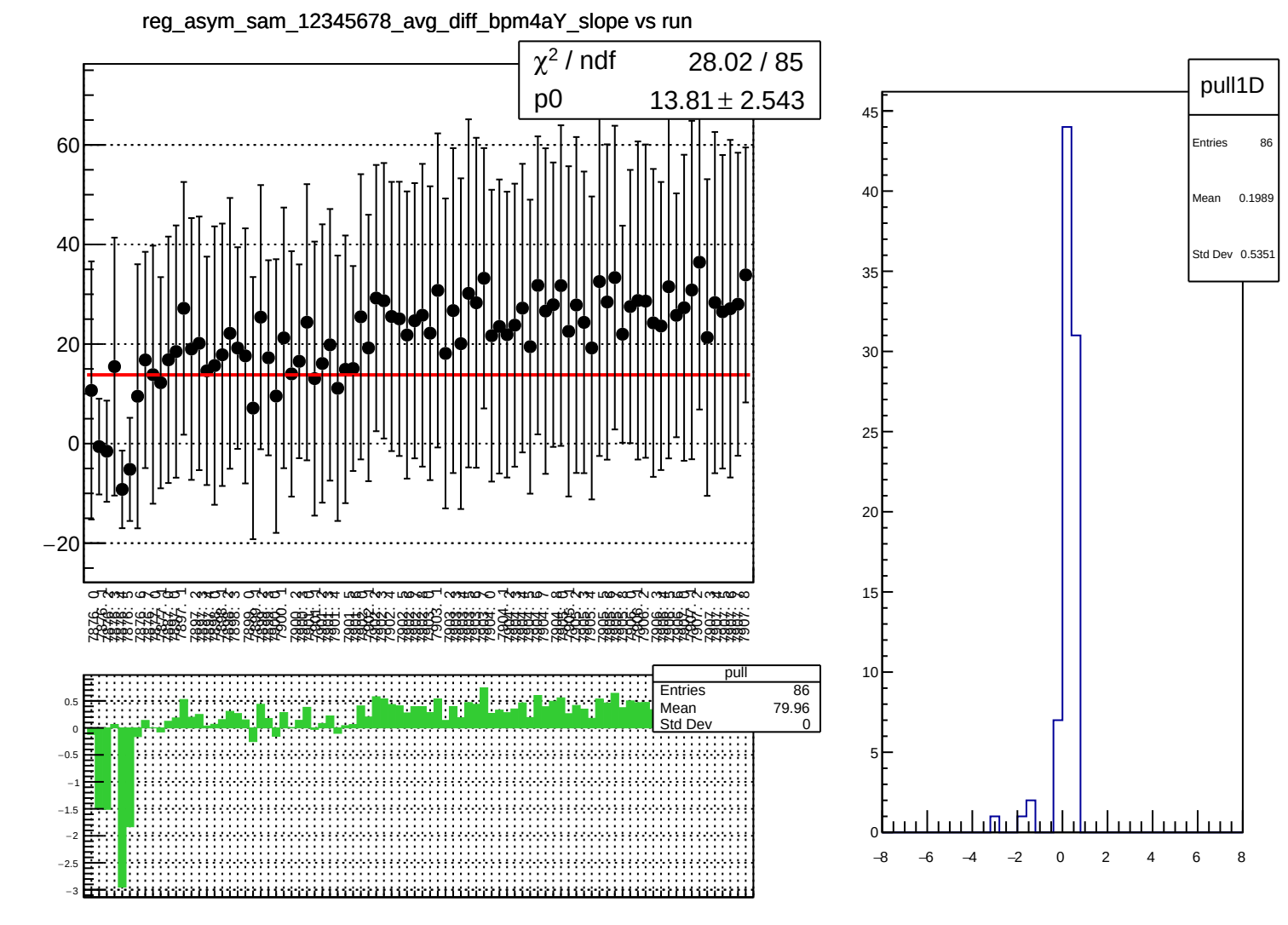

pull1D
Entries 86
Mean −0.05451
Std Dev 0.1942

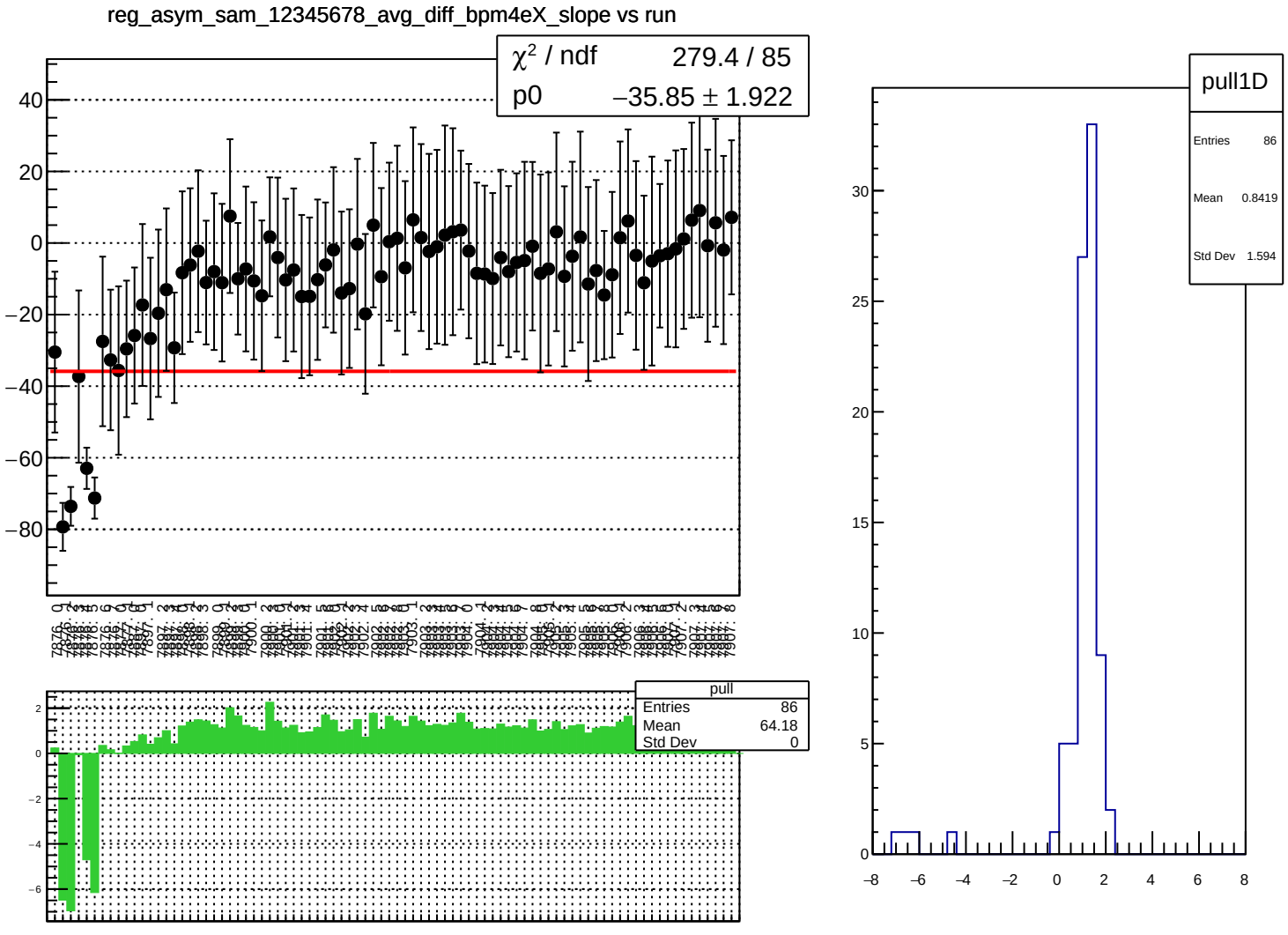

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 134 / 85
p0 16.84 ± 0.6666
pull
Entries 86
Mean 61.56
Std Dev 0
pull1D
Entries 86
Mean −0.5952
Std Dev 1.097

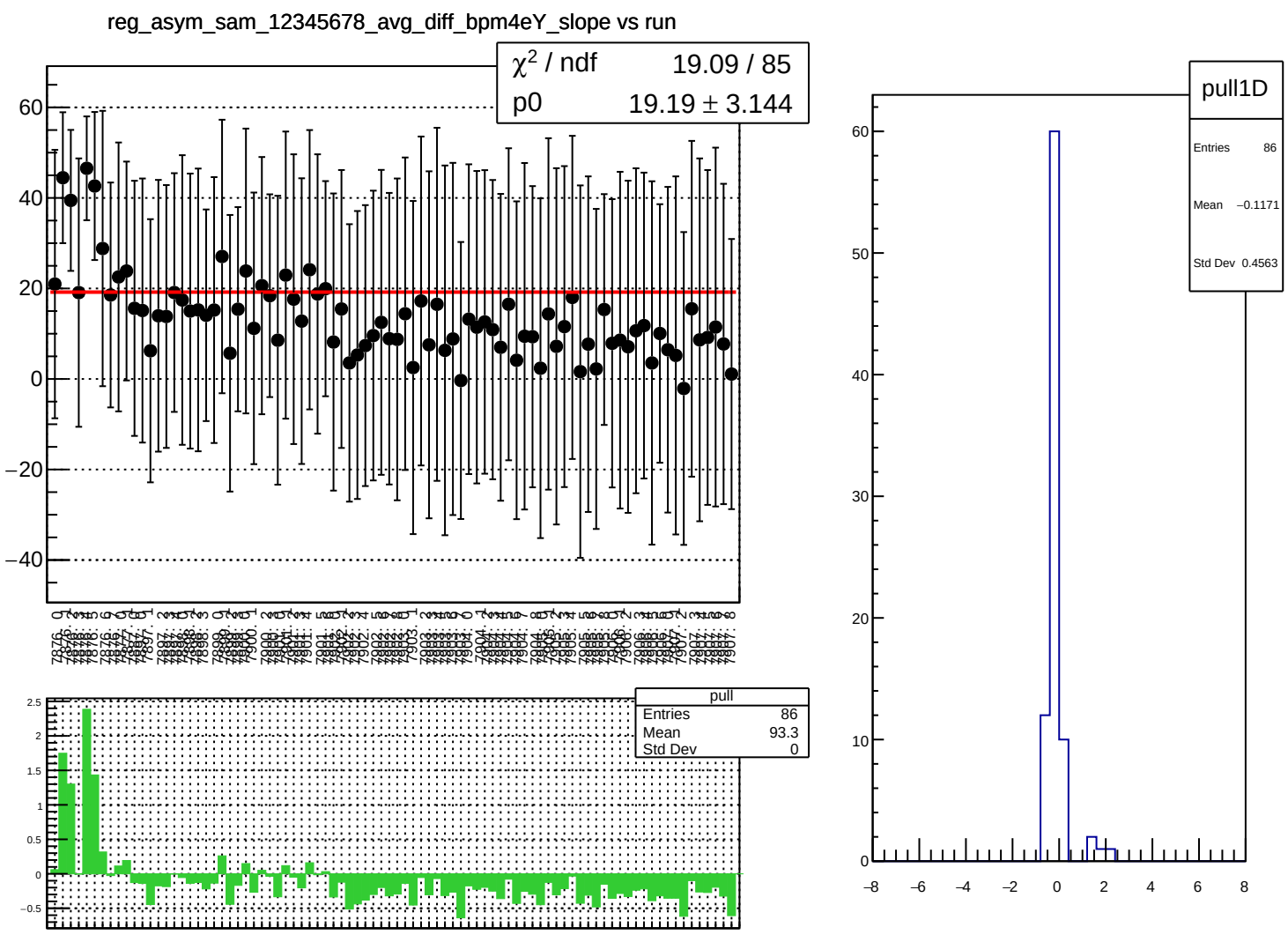

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.909 / 85
p0 −6.36 ± 1.094
pull
Entries 86
Mean 110.5
Std Dev 0
pull1D
Entries 86
Mean 0.02935
Std Dev 0.1461

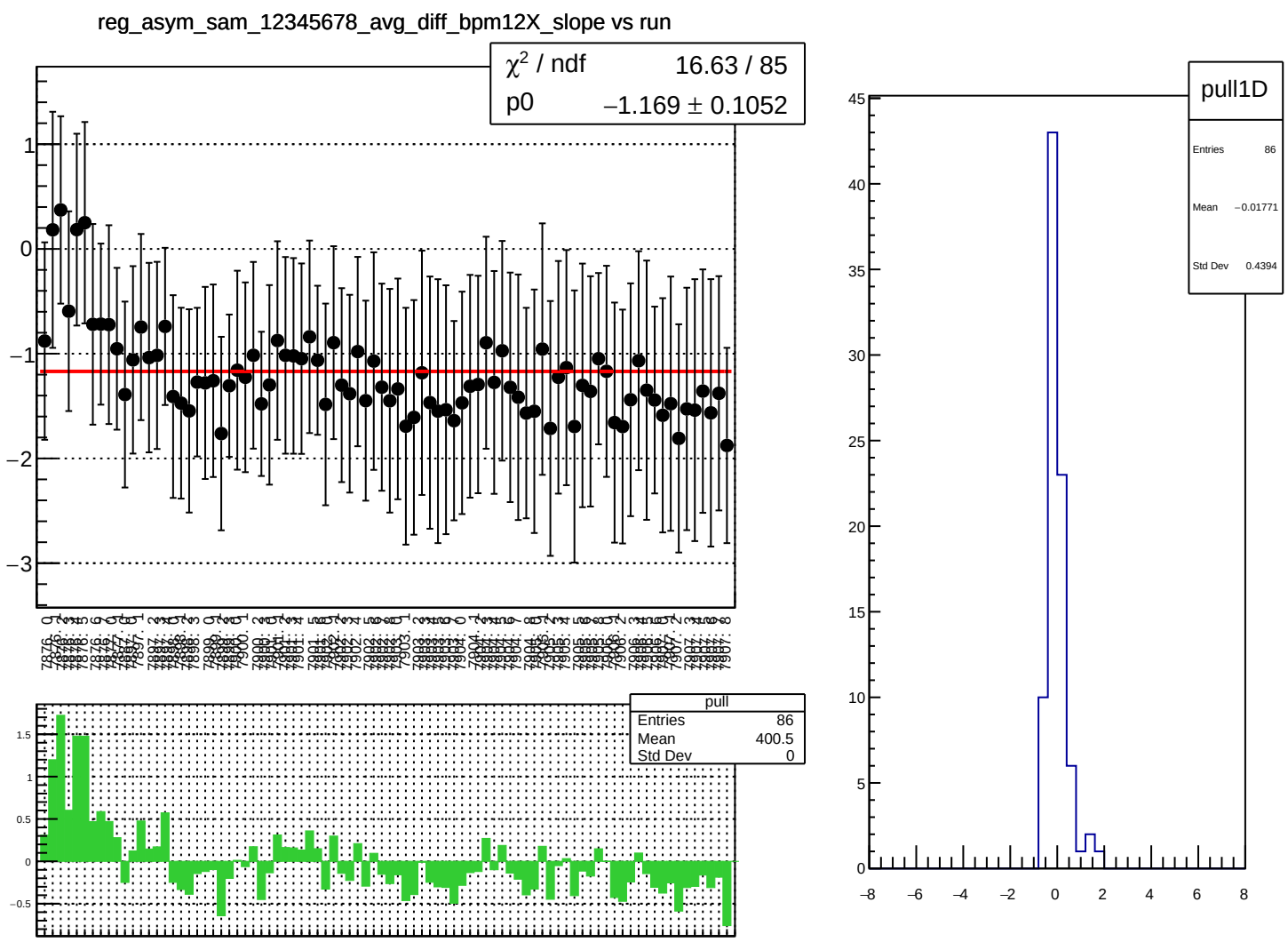

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.965 / 85
p0 0.2233 ± 0.03667
pull
Entries 86
Mean 281
Std Dev 0
pull1D
Entries 86
Mean 0.007797
Std Dev 0.1855

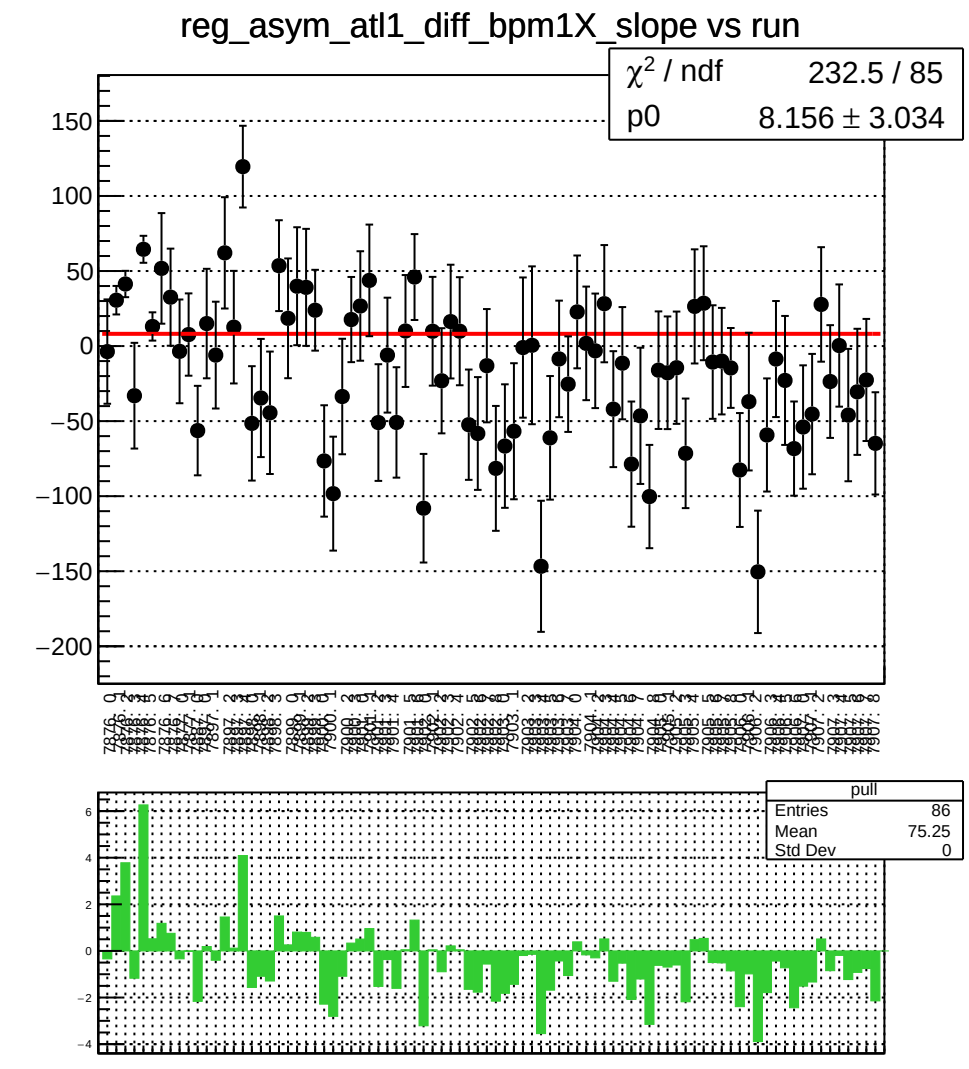

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 233.9 / 85
p0 −41.55 ± 2.385
pull
Entries 86
Mean 66.74
Std Dev 0
pull1D
Entries 86
Mean −0.7052
Std Dev 1.491

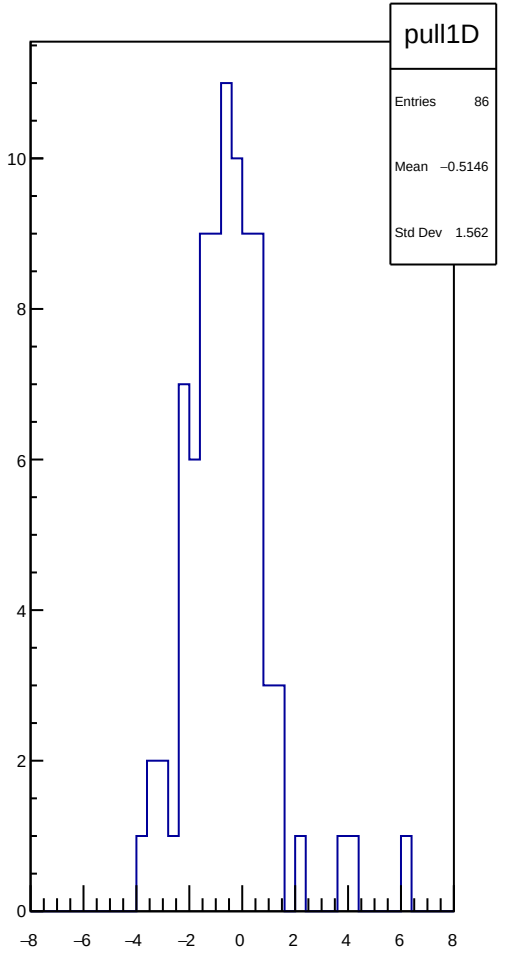

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.02 / 85
p0 13.81 ± 2.543
pull
Entries 86
Mean 79.96
Std Dev 0
pull1D
Entries 86
Mean 0.1989
Std Dev 0.5351

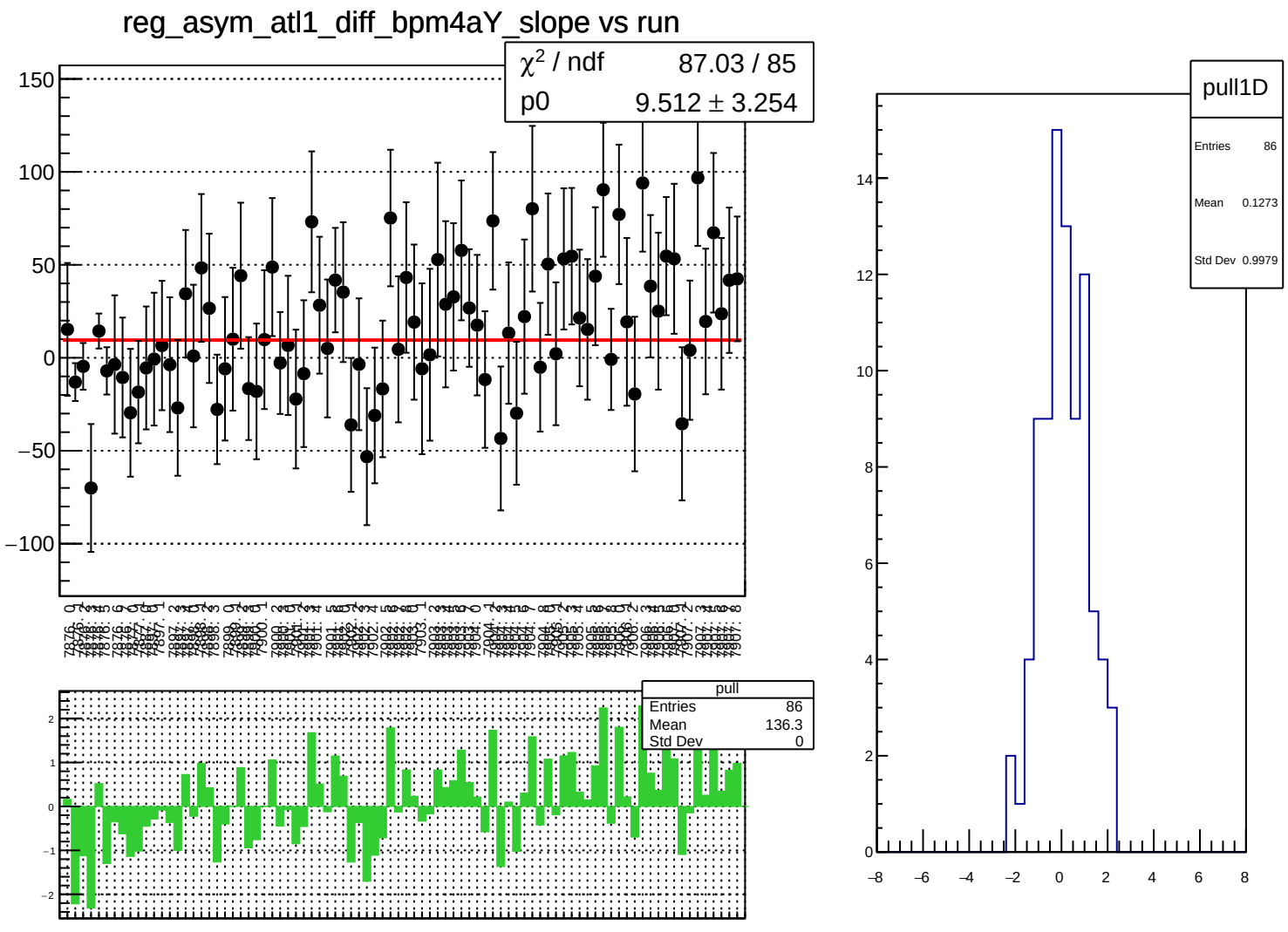

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 279.4 / 85
p0 −35.85 ± 1.922
pull
Entries 86
Mean 64.18
Std Dev 0
pull1D
Entries 86
Mean 0.8419
Std Dev 1.594

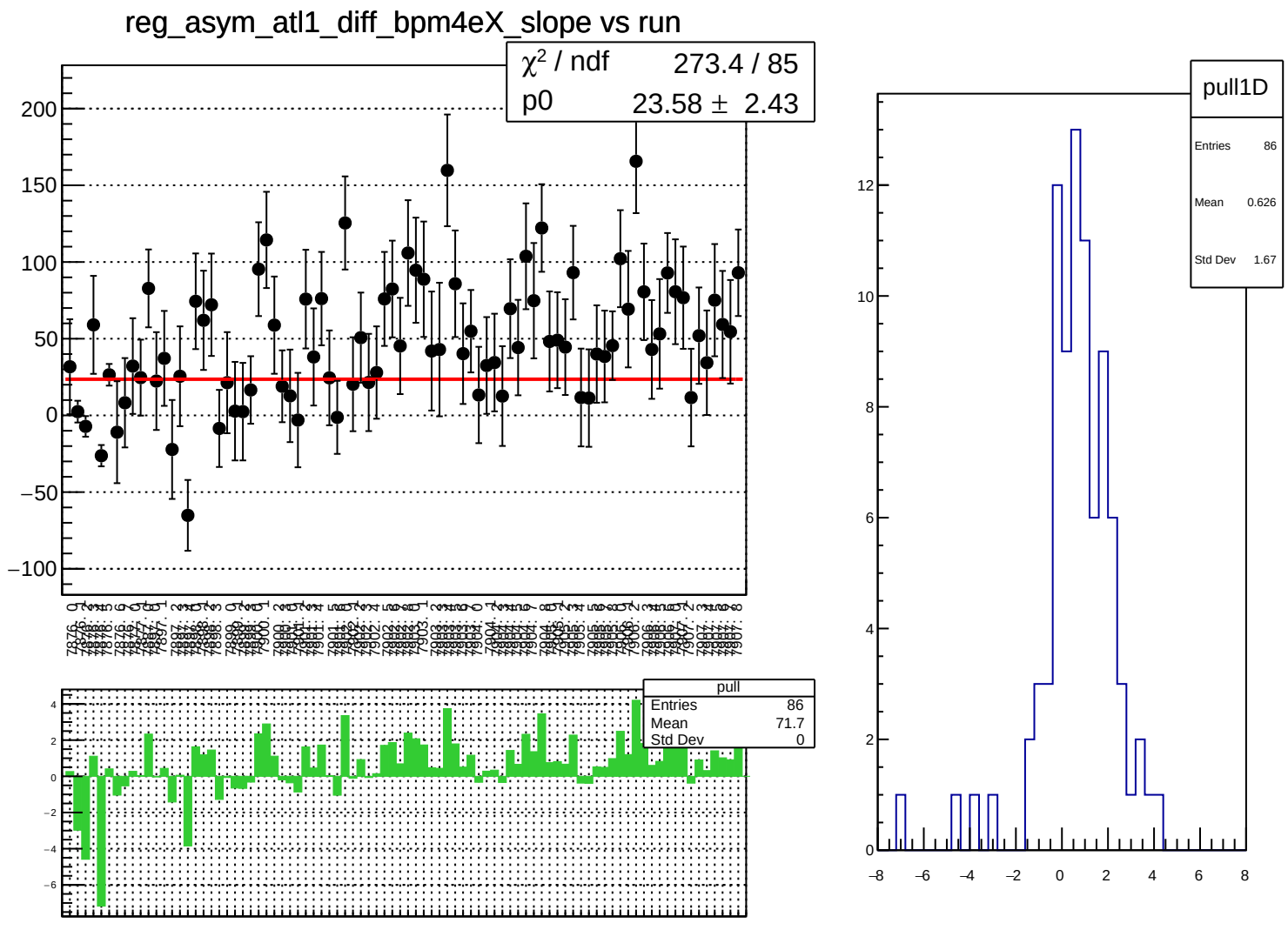

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.09 / 85
p0 19.19 ± 3.144
pull
Entries 86
Mean 93.3
Std Dev 0
pull1D
Entries 86
Mean −0.1171
Std Dev 0.4563

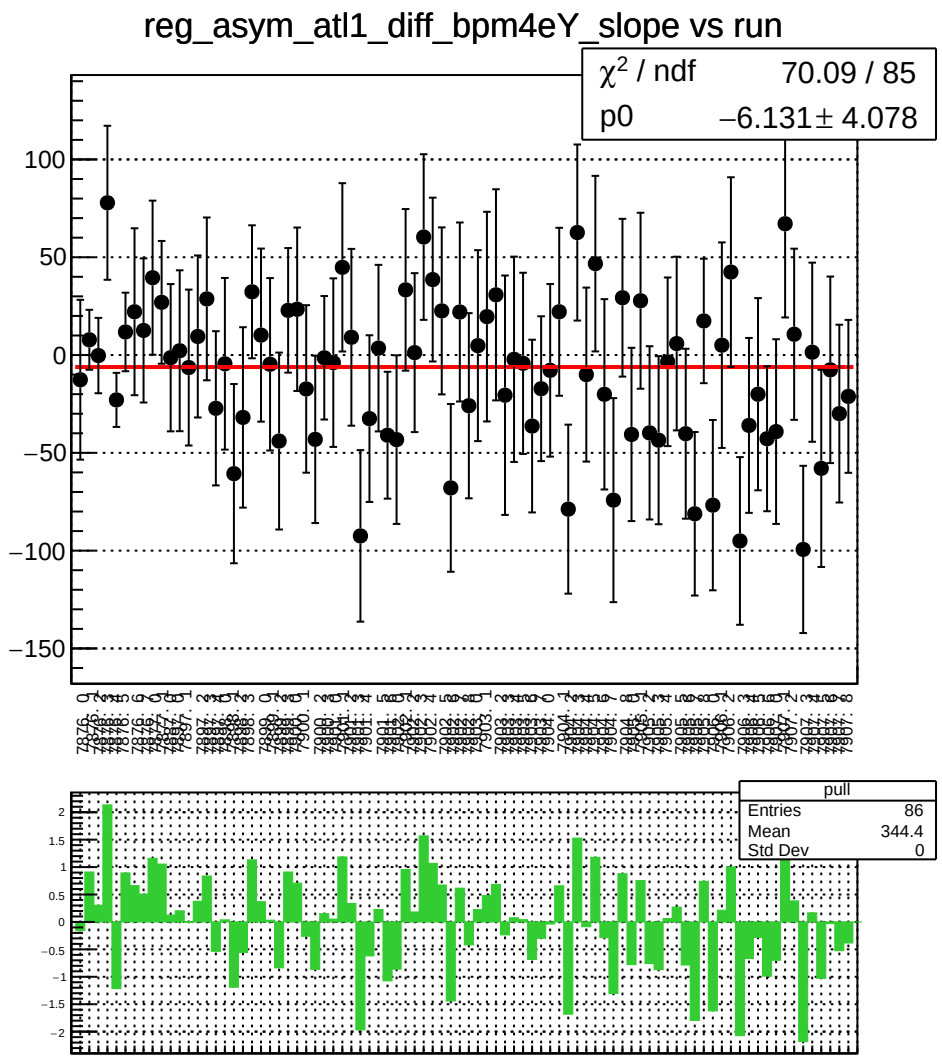

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 16.63 / 85
p0 −1.169 ± 0.1052
pull
Entries 86
Mean 400.5
Std Dev 0
pull1D
Entries 86
Mean −0.01771
Std Dev 0.4394

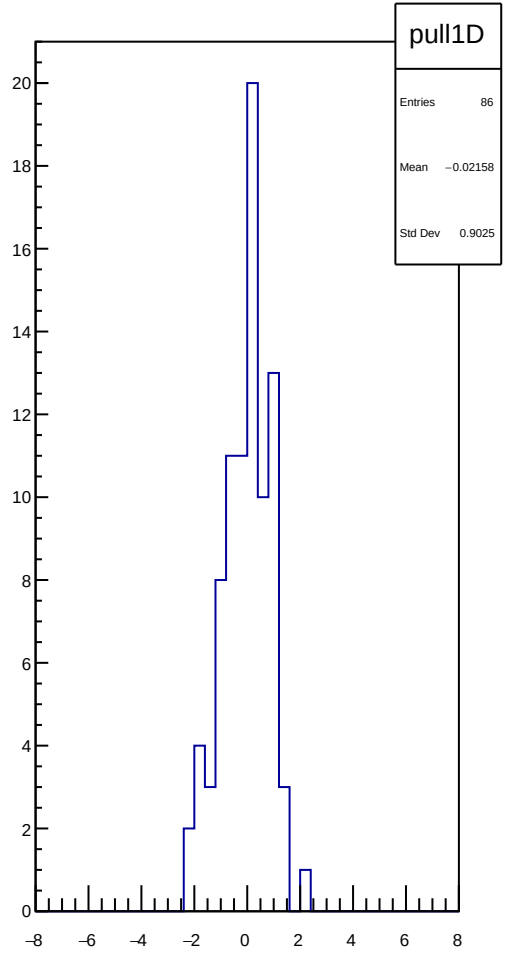

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 232.5 / 85
p0 8.156 ± 3.034
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 75.25
Std Dev 0
6
4
2
0
−2
−4

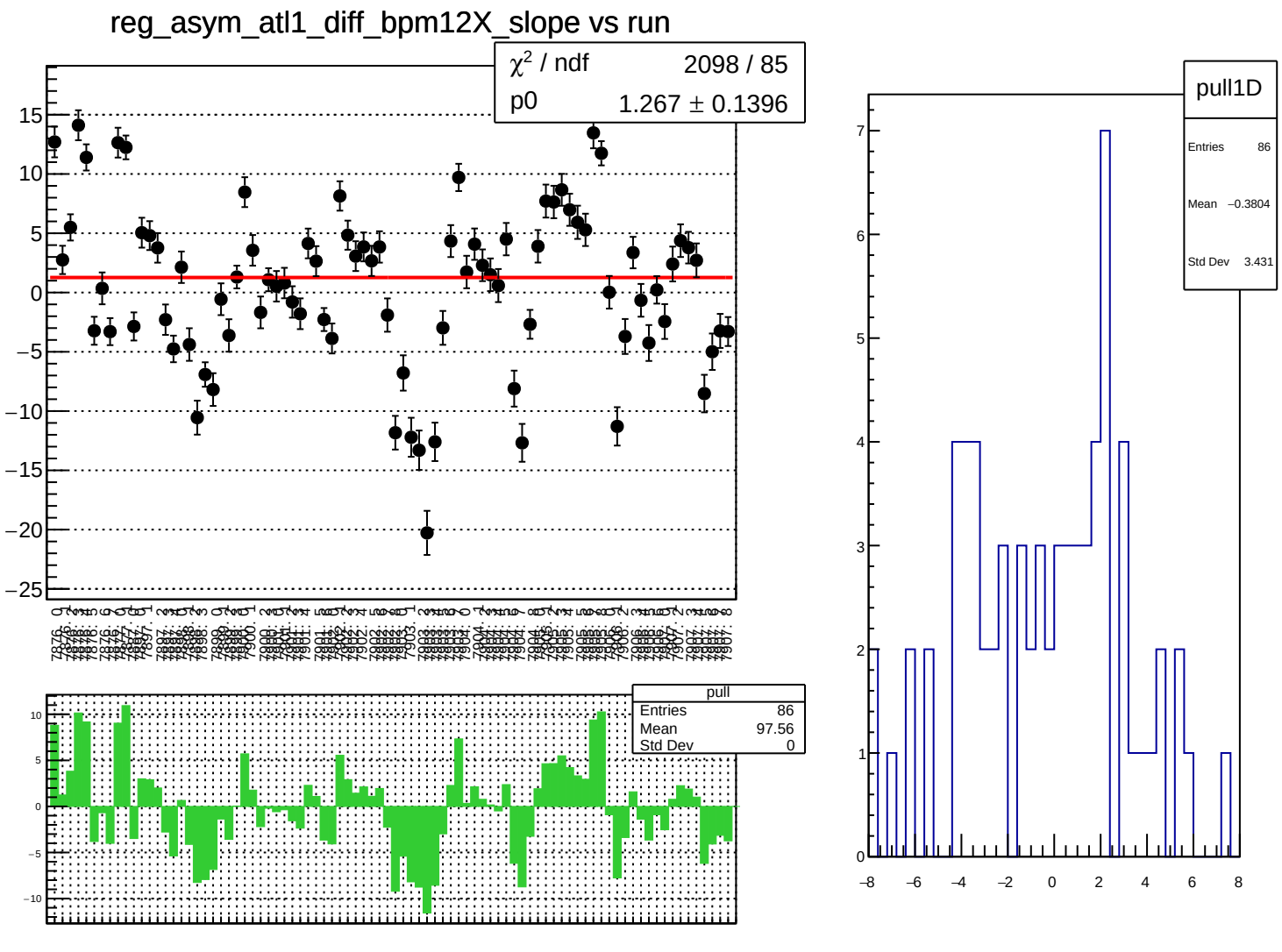

pull1D
Entries 86
Mean −0.5146
Std Dev 1.562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

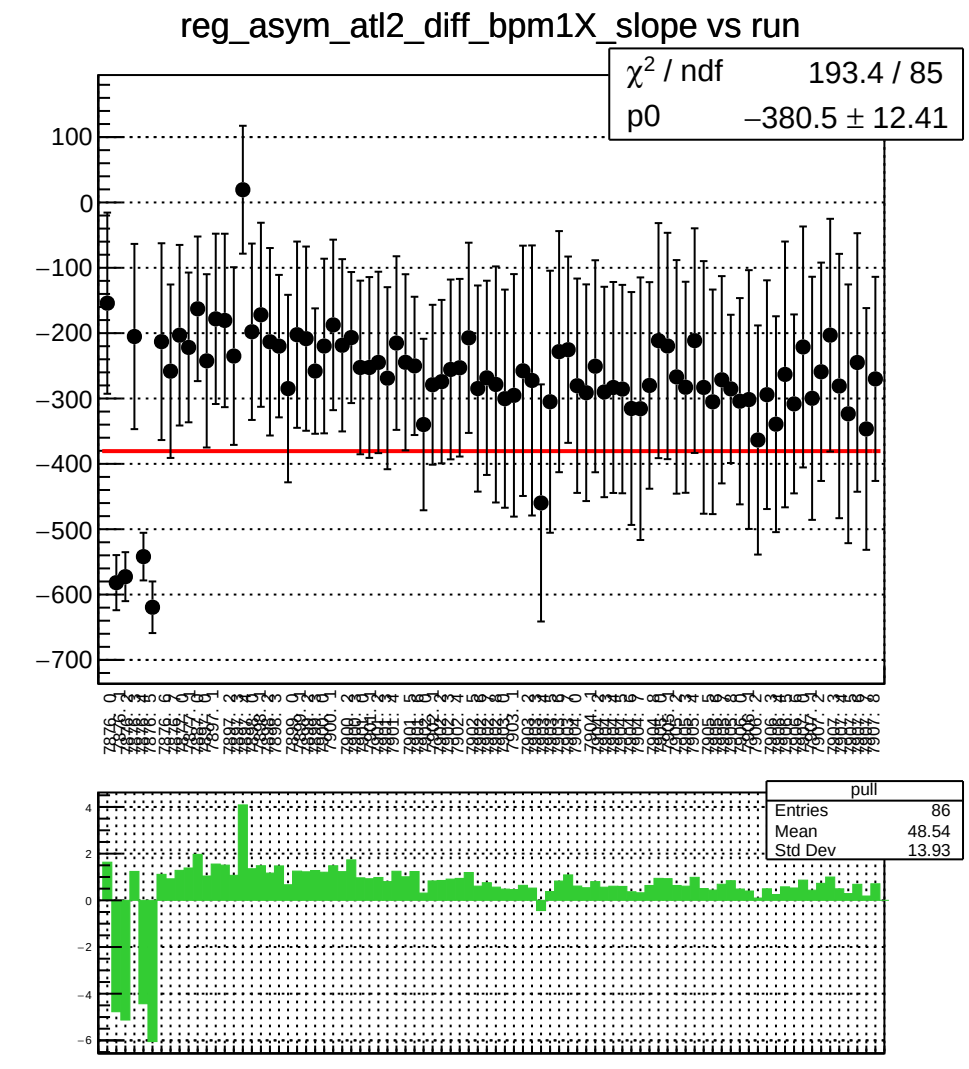

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 87.03 / 85
p0 9.512 ± 3.254
150
100
50
0
−50
−100
pull
Entries 86
Mean 136.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.1273
Std Dev 0.9979
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

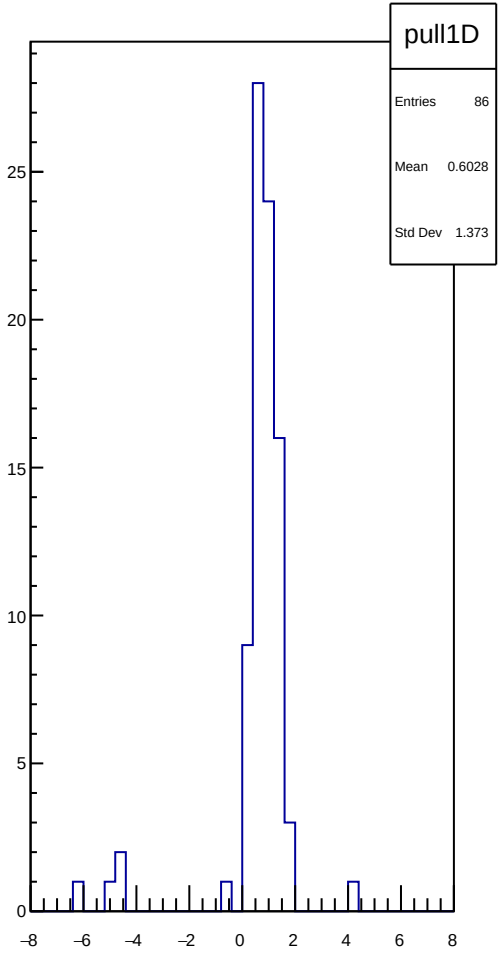

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 273.4 / 85
p0 23.58 ± 2.43
200
150
100
50
0
−50
−100
pull
Entries 86
Mean 71.7
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 86
Mean 0.626
Std Dev 1.67
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

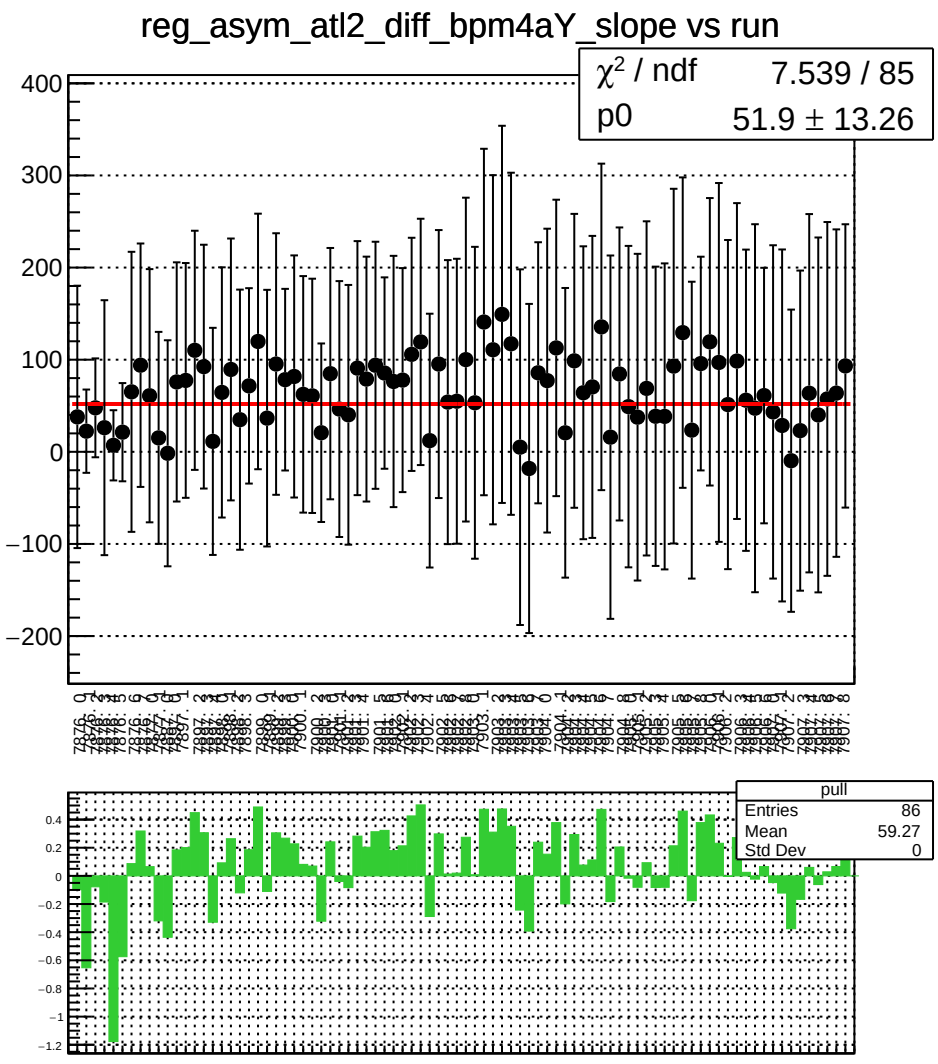

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 70.09 / 85
p0 −6.131 ± 4.078
pull
Entries 86
Mean 344.4
Std Dev 0

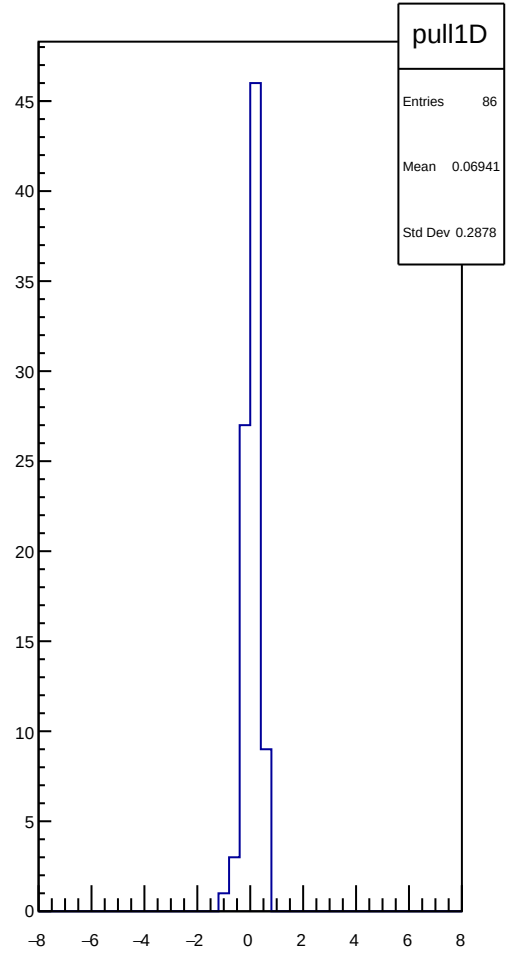

pull1D
Entries 86
Mean −0.02158
Std Dev 0.9025

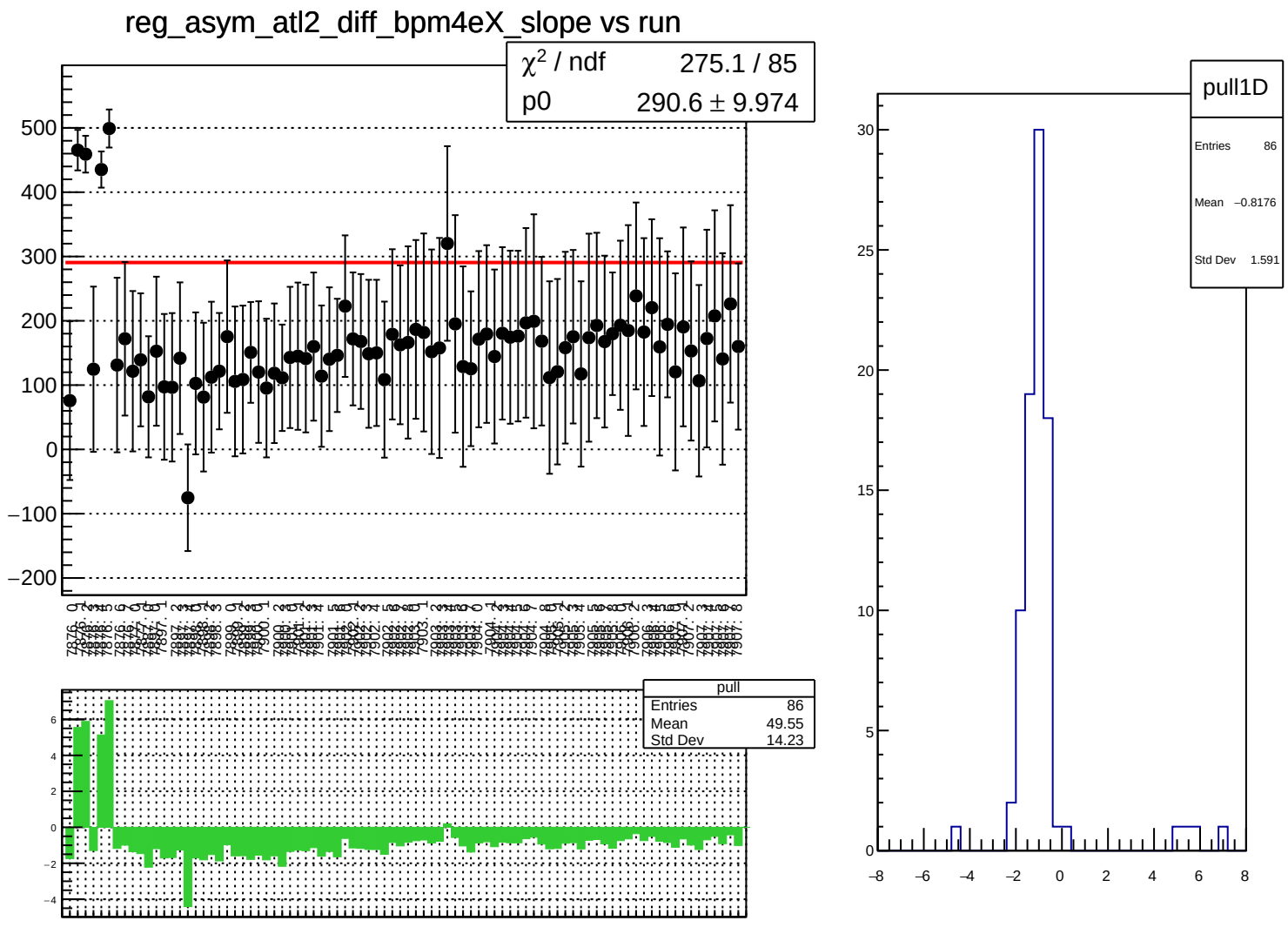

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 2098 / 85
p0 1.267 ± 0.1396
pull
Entries 86
Mean 97.56
Std Dev 0
pull1D
Entries 86
Mean −0.3804
Std Dev 3.431

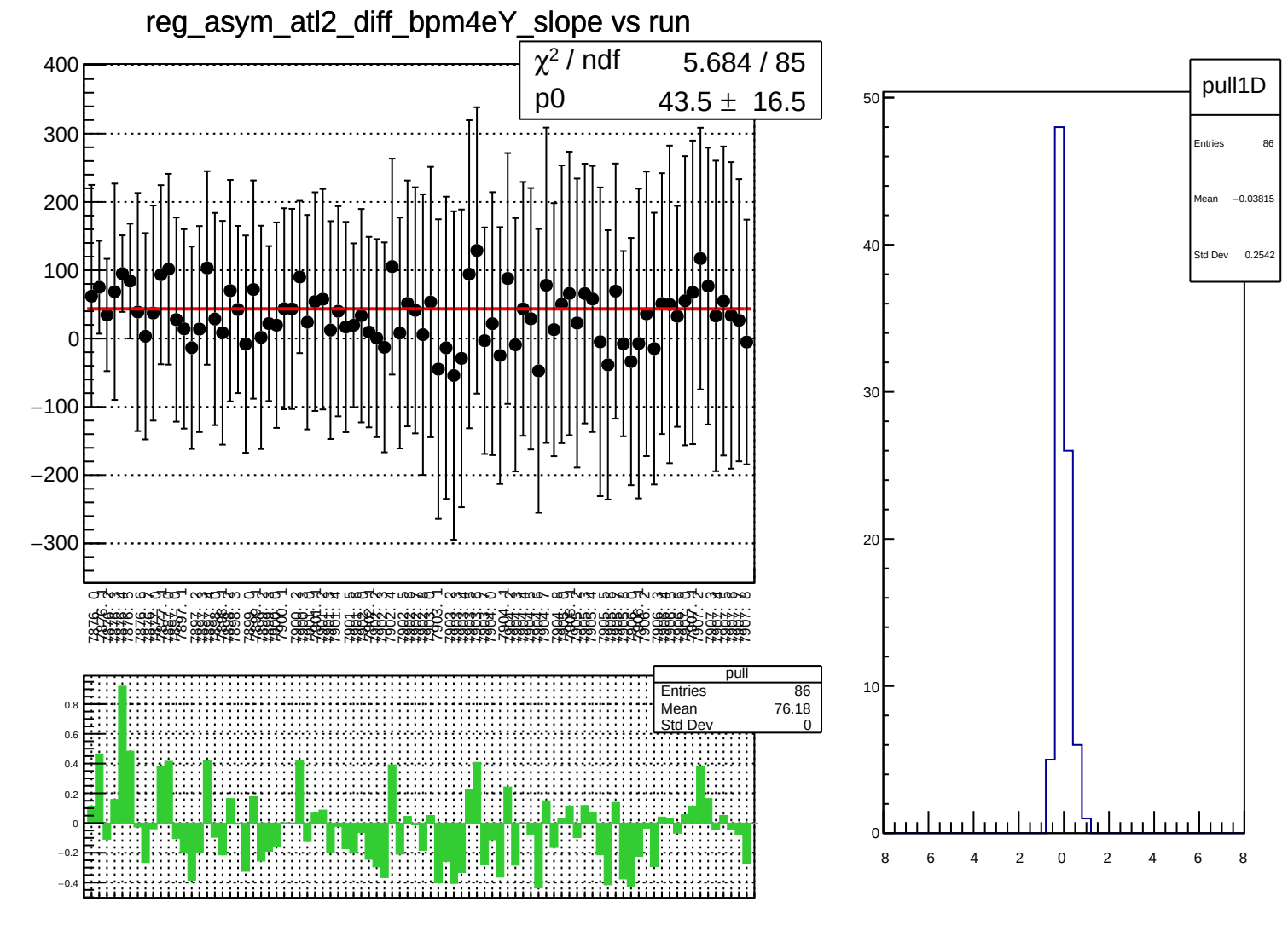

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 193.4 / 85
p0 −380.5 ± 12.41
pull
Entries 86
Mean 48.54
Std Dev 13.93

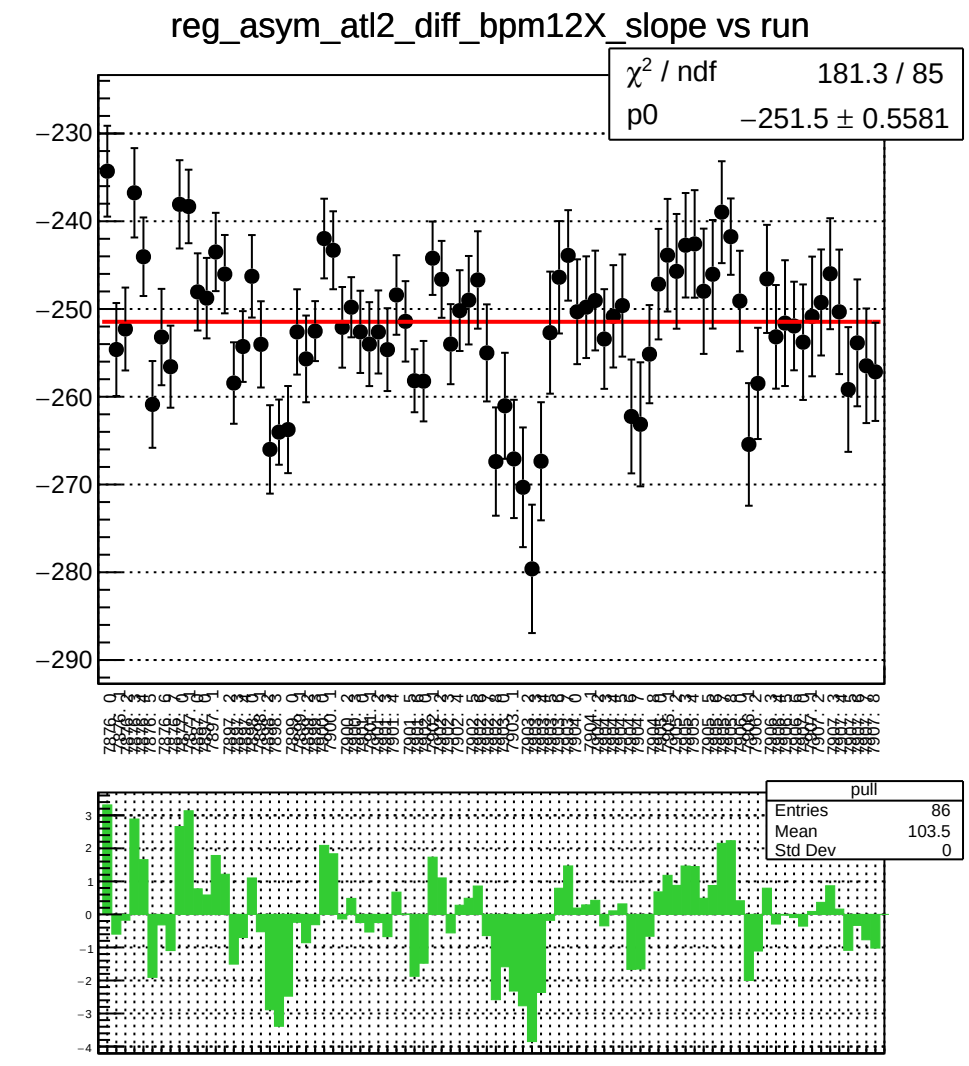

pull1D
Entries 86
Mean 0.6028
Std Dev 1.373

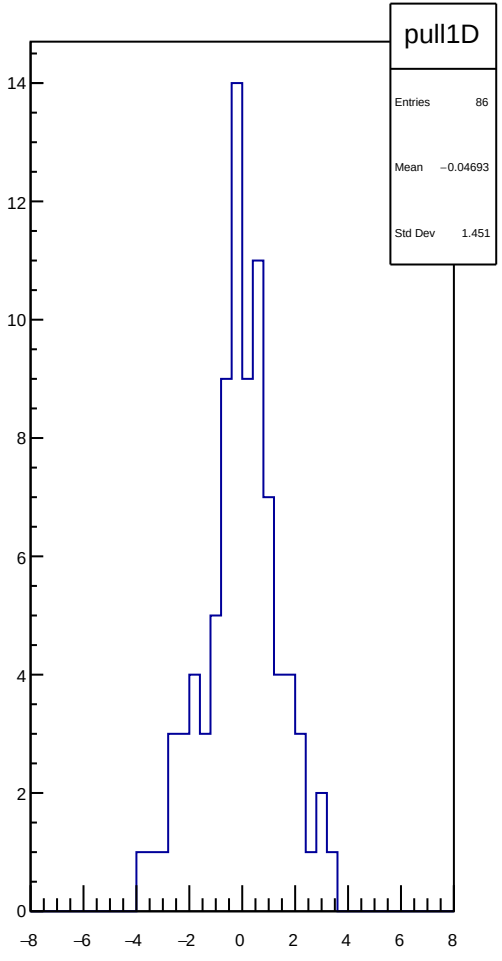

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 7.539 / 85
p0 51.9 ± 13.26
pull
Entries 86
Mean 59.27
Std Dev 0

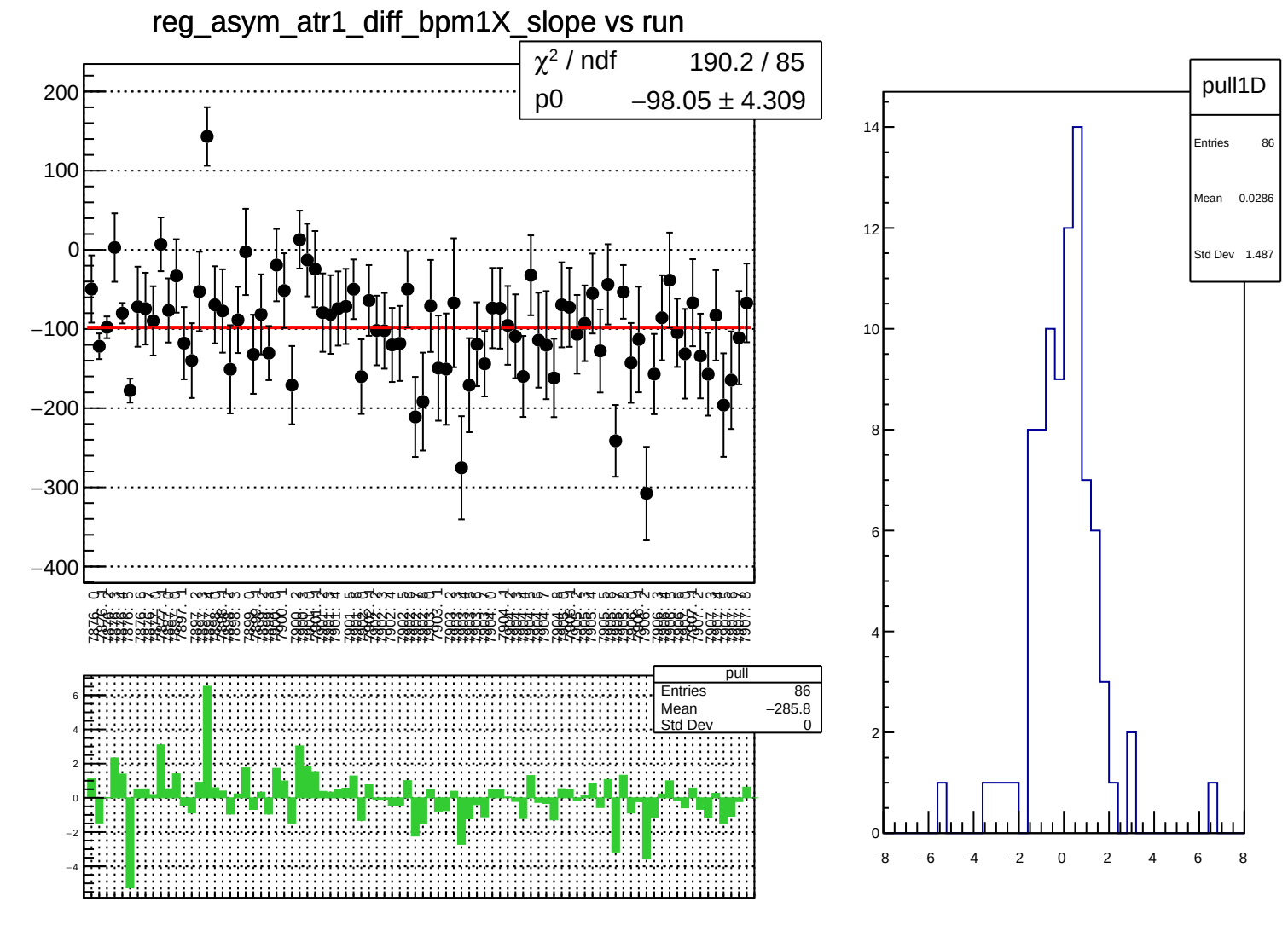

pull1D
Entries 86
Mean 0.06941
Std Dev 0.2878

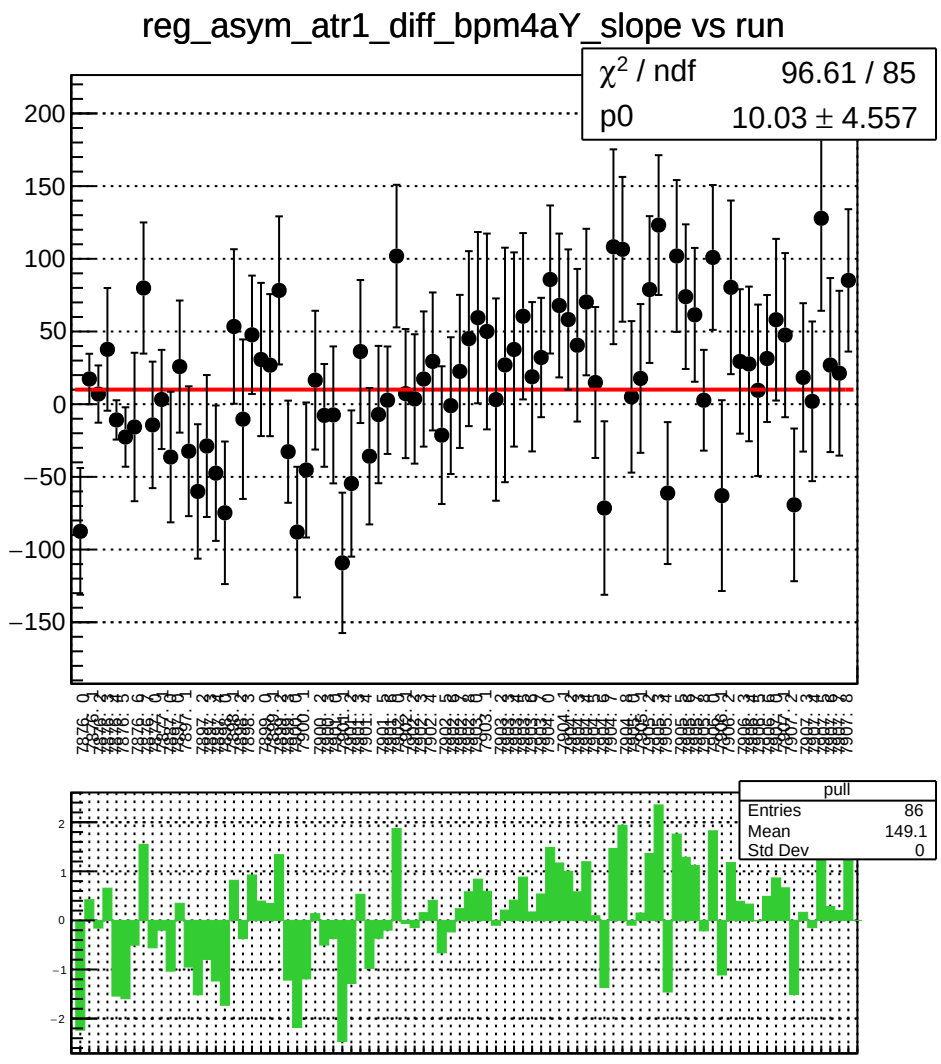

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 275.1 / 85
p0 290.6 ± 9.974
pull
Entries 86
Mean 49.55
Std Dev 14.23
pull1D
Entries 86
Mean −0.8176
Std Dev 1.591

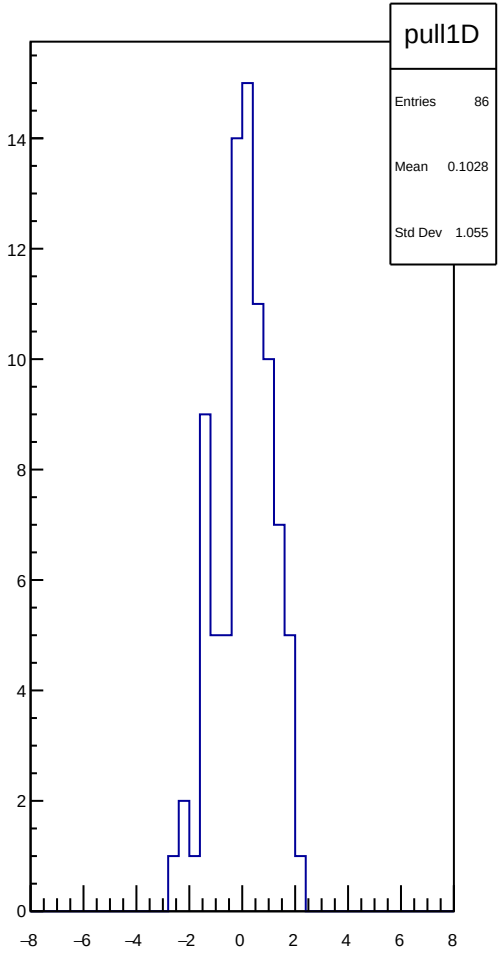

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.684 / 85
p0 43.5 ± 16.5
pull
Entries 86
Mean 76.18
Std Dev 0
pull1D
Entries 86
Mean −0.03815
Std Dev 0.2542

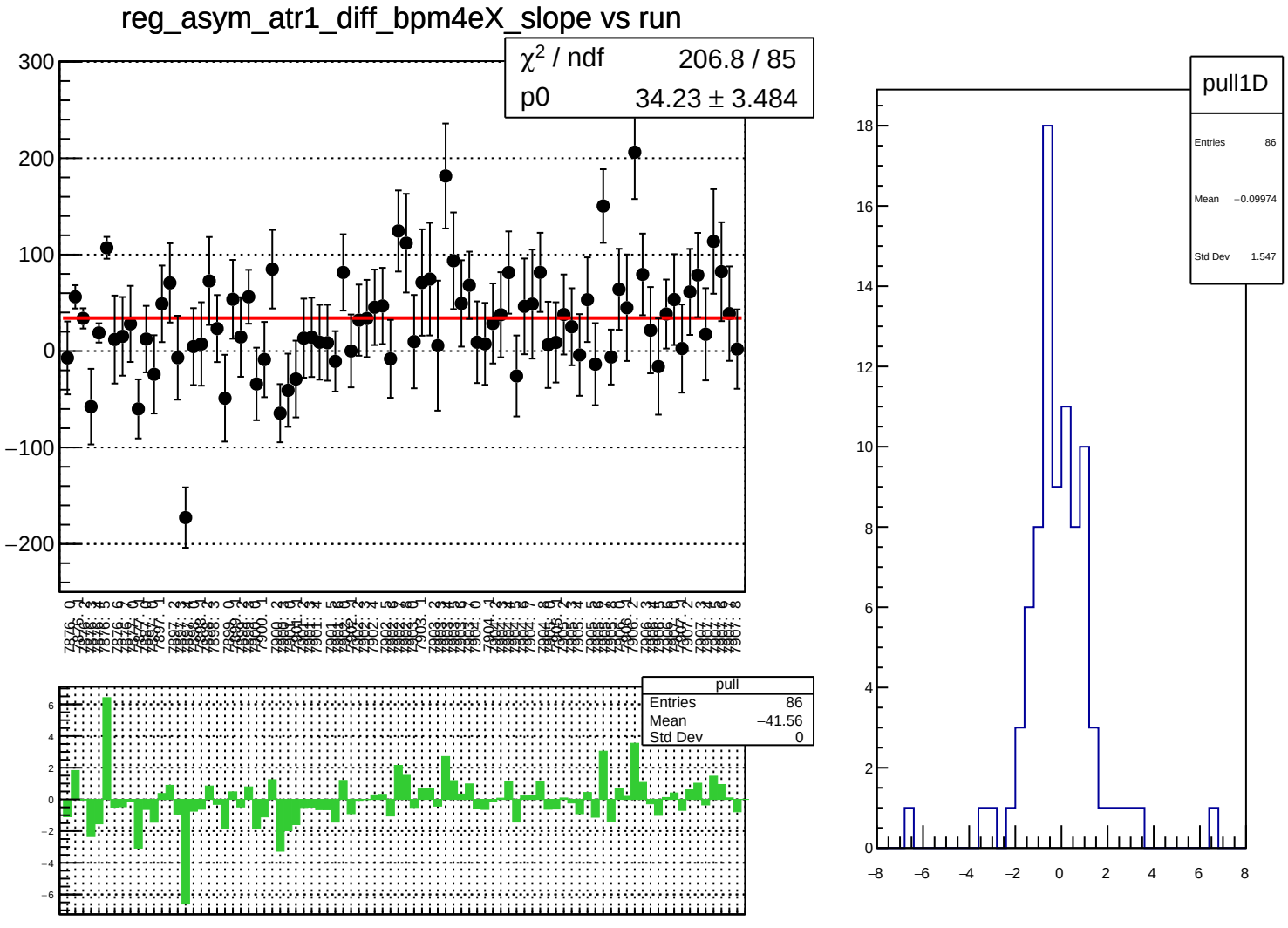

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 181.3 / 85
p0 −251.5 ± 0.5581
pull
Entries 86
Mean 103.5
Std Dev 0

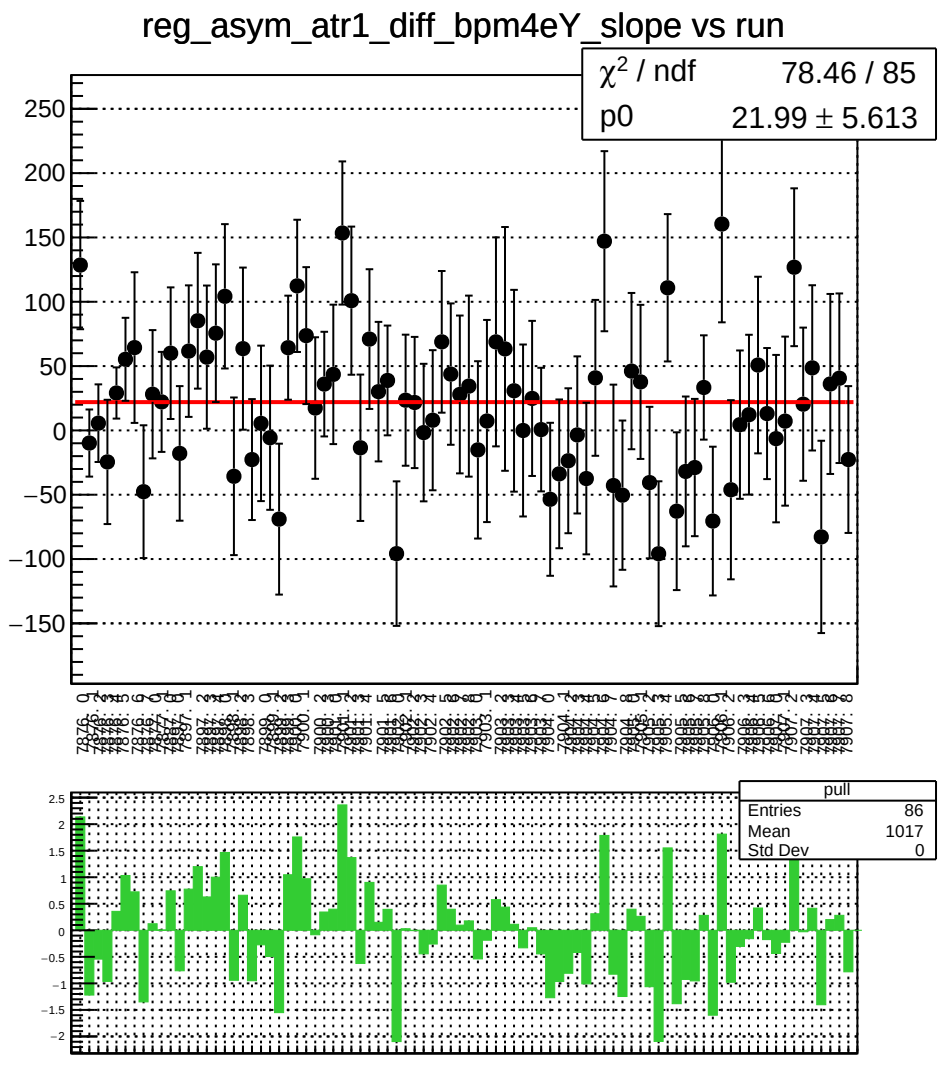

pull1D
Entries 86
Mean −0.04693
Std Dev 1.451

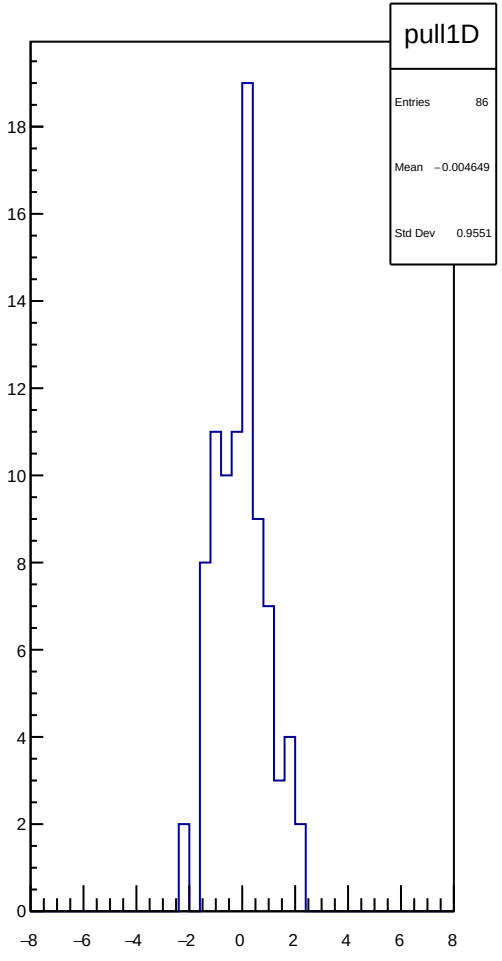

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 190.2 / 85
p0 −98.05 ± 4.309
200
100
0
−100
−200
−300
−400
pull
Entries 86
Mean −285.8
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 86
Mean 0.0286
Std Dev 1.487
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

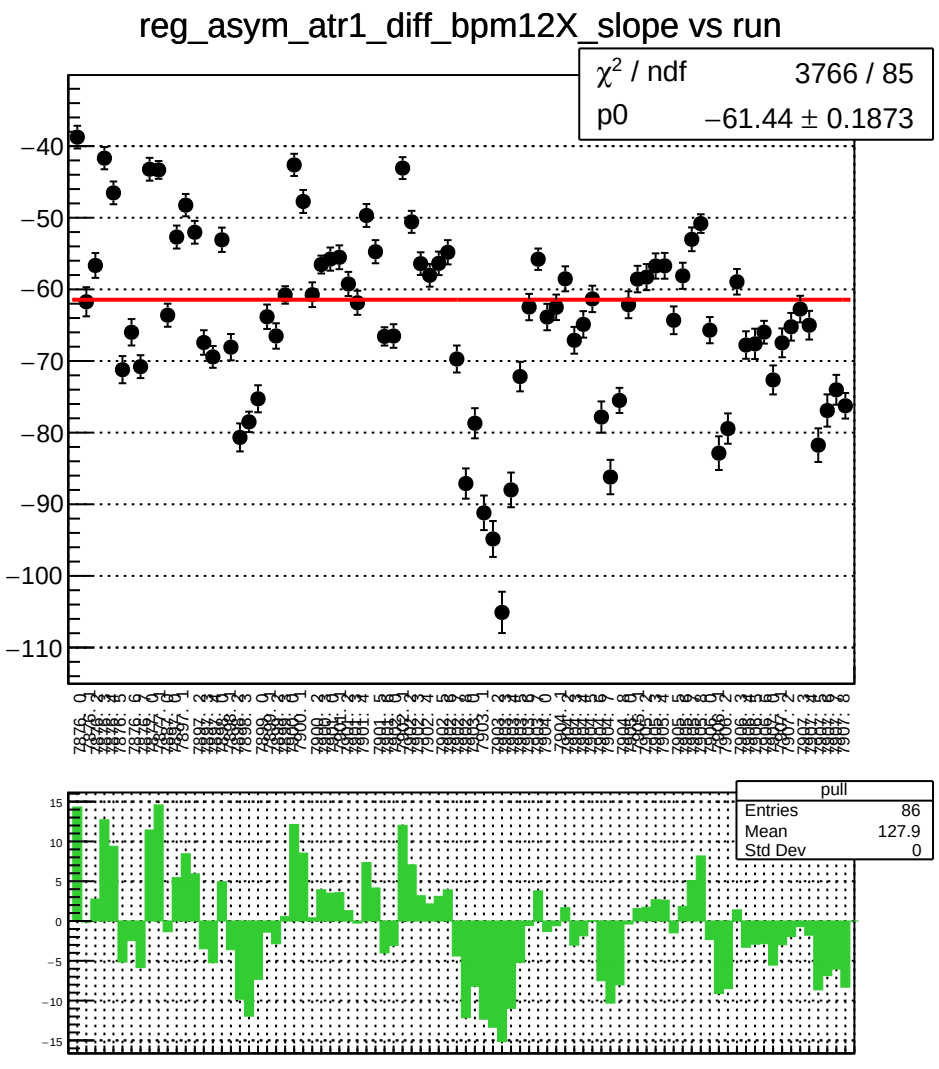

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 96.61 / 85
p0 10.03 ± 4.557
pull
Entries 86
Mean 149.1
Std Dev 0

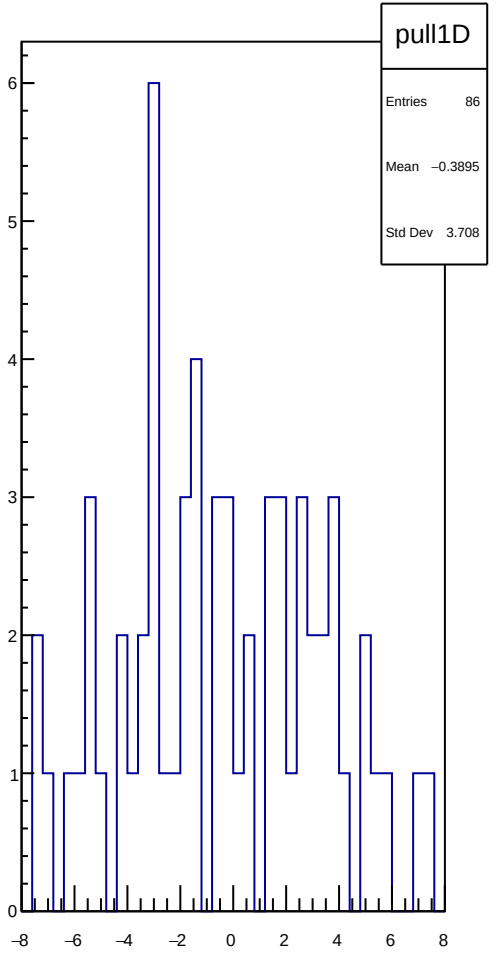

pull1D
Entries 86
Mean 0.1028
Std Dev 1.055

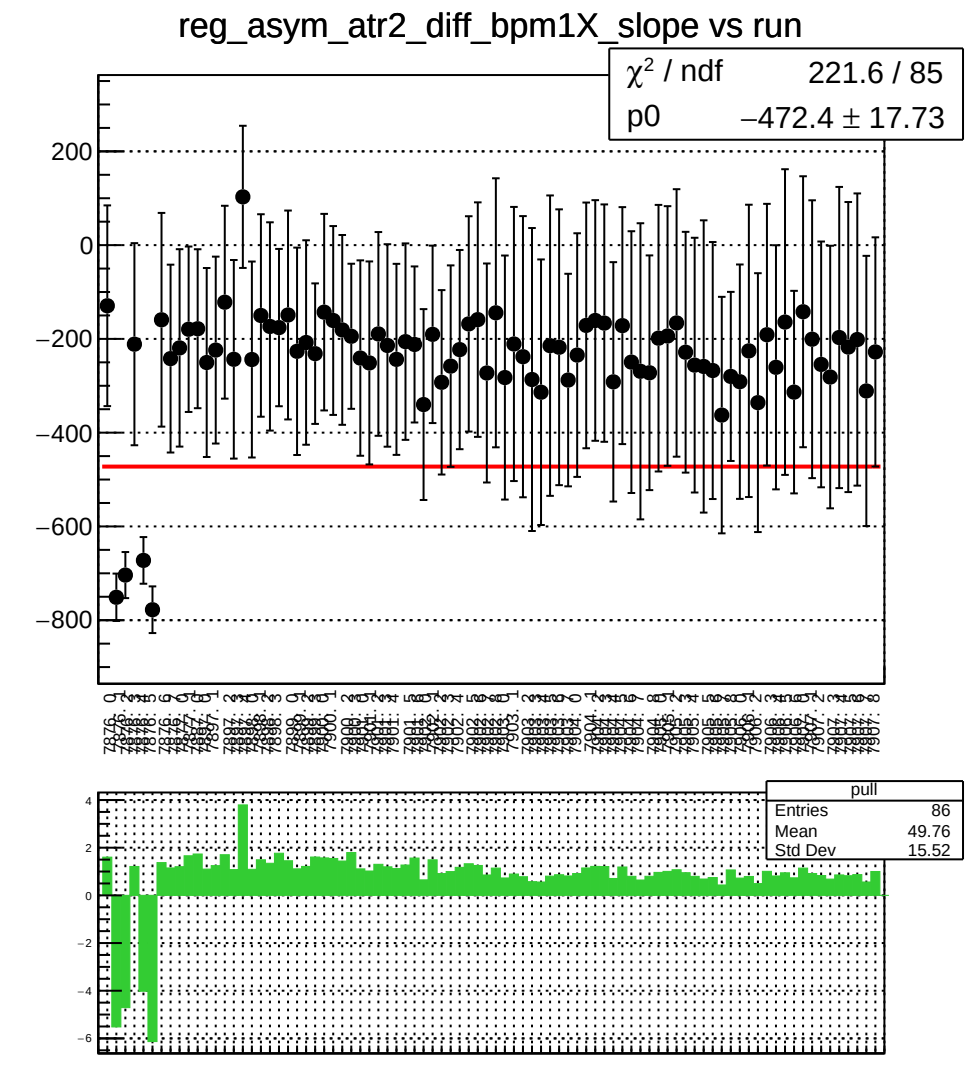

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 206.8 / 85
p0 34.23 ± 3.484
pull
Entries 86
Mean −41.56
Std Dev 0
pull1D
Entries 86
Mean −0.09974
Std Dev 1.547

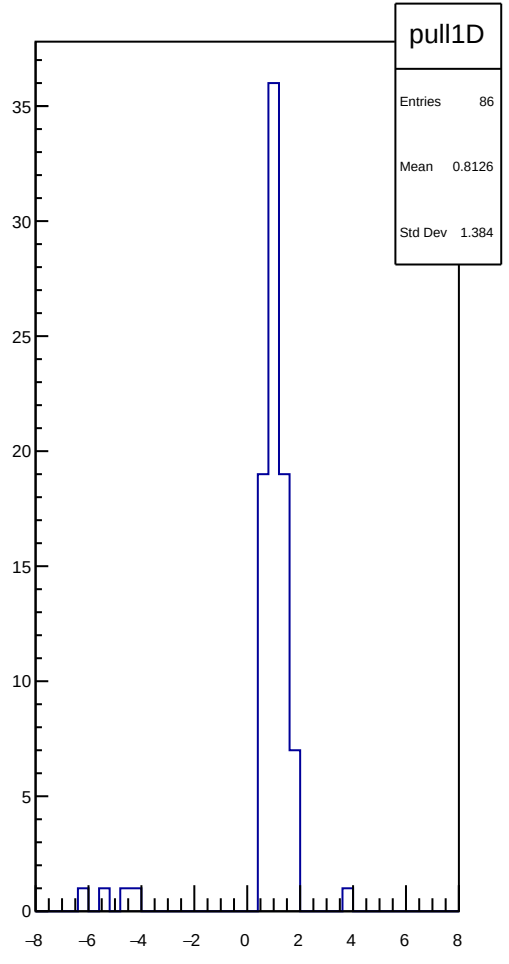

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 78.46 / 85
p0 21.99 ± 5.613
pull
Entries 86
Mean 1017
Std Dev 0

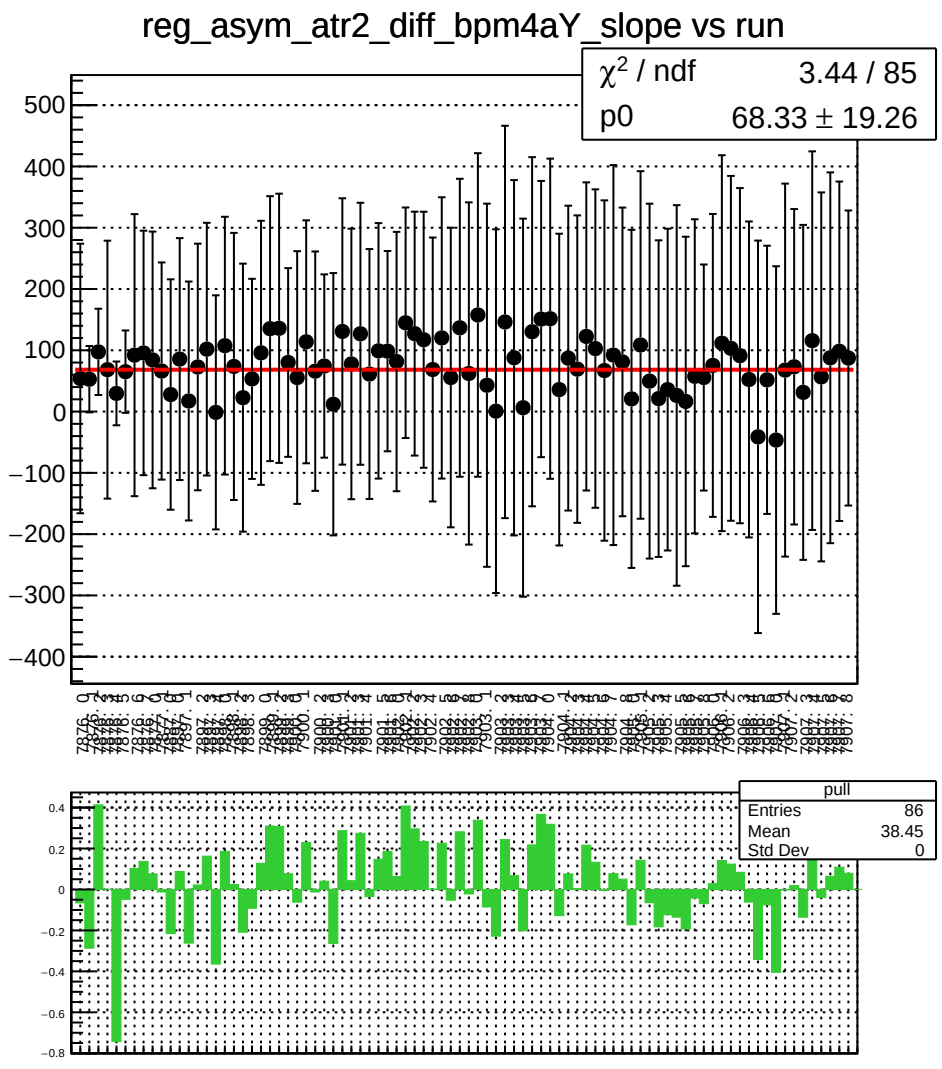

pull1D
Entries 86
Mean −0.004649
Std Dev 0.9551

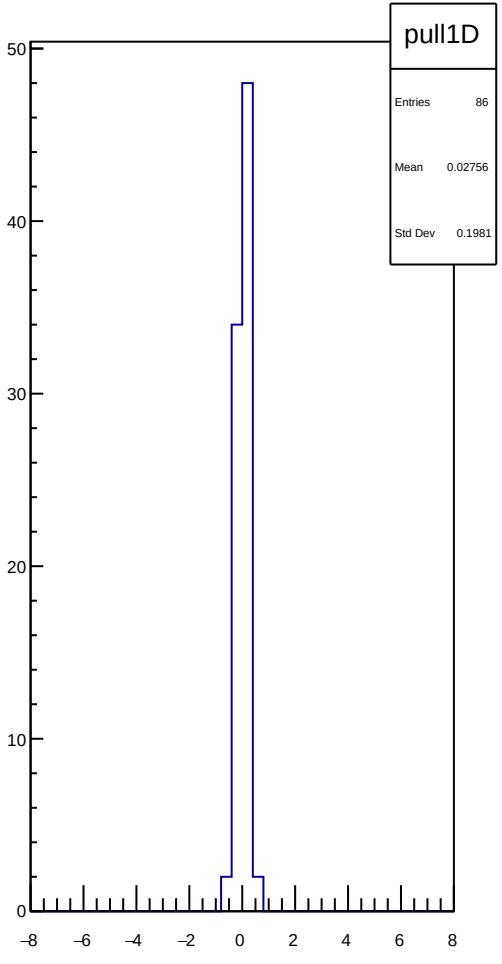

reg_asym_atr1_diff_bpm12X_slope vs run
χ^2 / ndf 3766 / 85
p0 −61.44 ± 0.1873
−40
−50
−60
−70
−80
−90
−100
−110
pull
Entries 86
Mean 127.9
Std Dev 0
15
10
5
0
−5
−10
−15

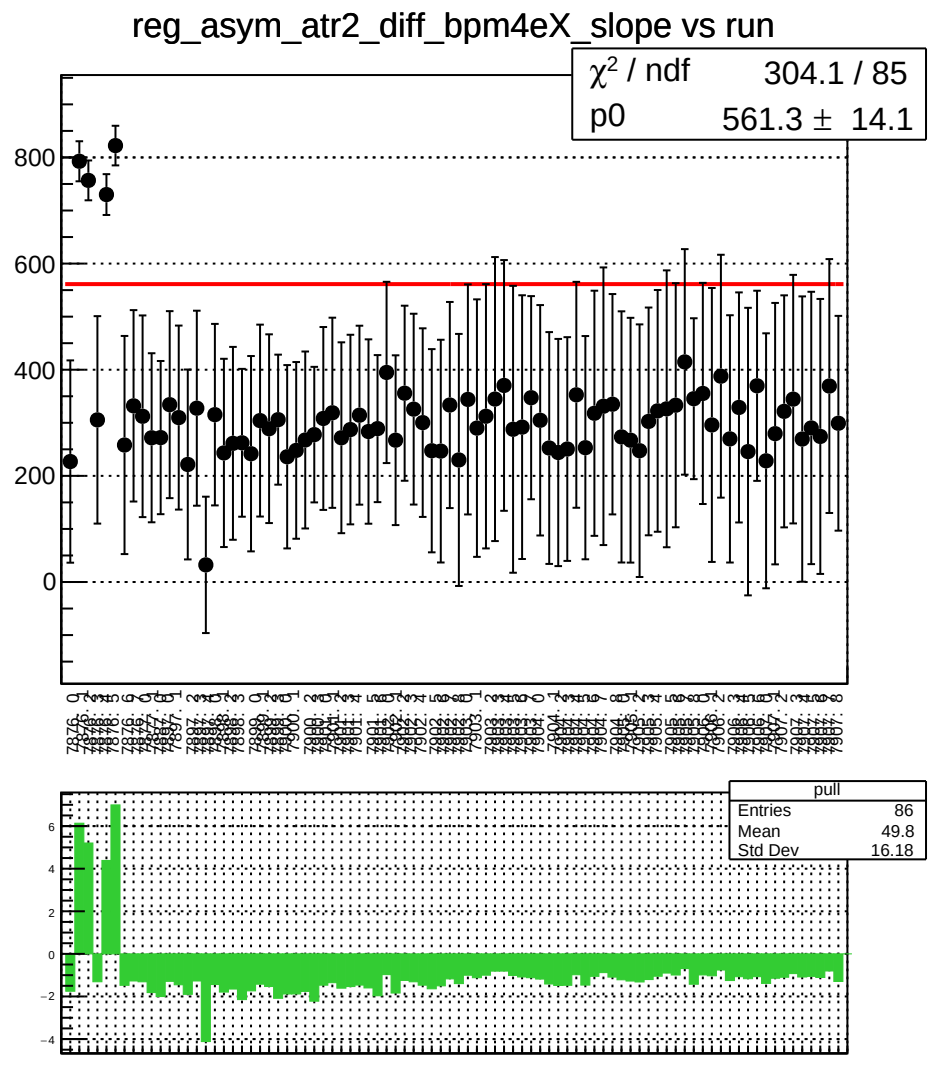

pull1D
Entries 86
Mean −0.3895
Std Dev 3.708
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

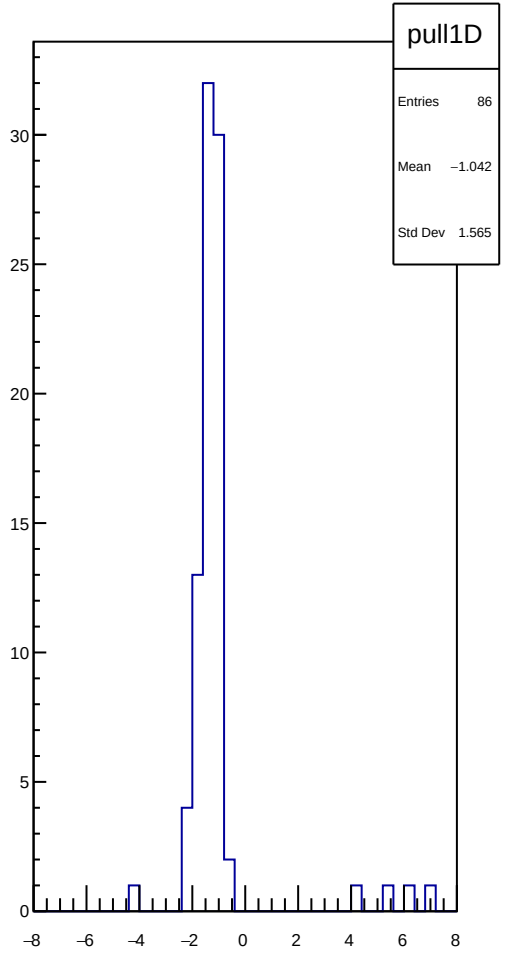

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 221.6 / 85
p0 −472.4 ± 17.73
pull
Entries 86
Mean 49.76
Std Dev 15.52

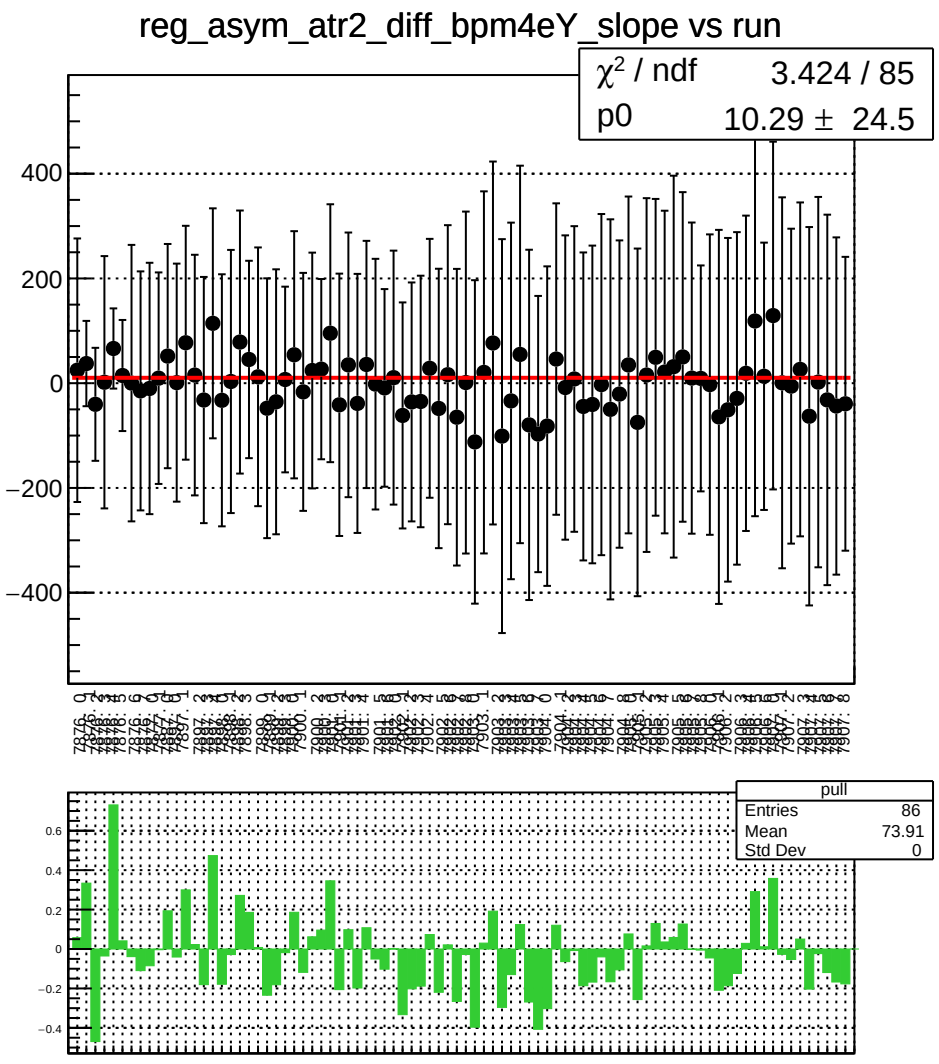

pull1D
Entries 86
Mean 0.8126
Std Dev 1.384

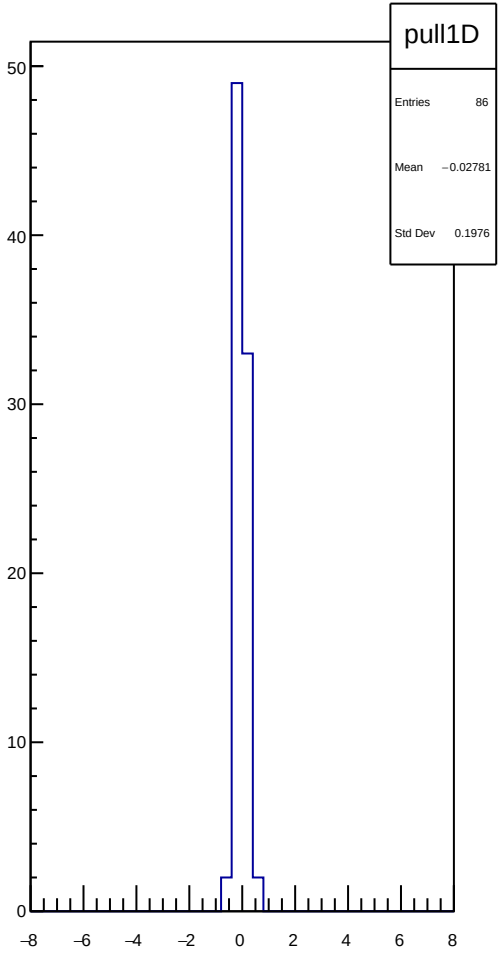

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.44 / 85
p0 68.33 ± 19.26
pull
Entries 86
Mean 38.45
Std Dev 0

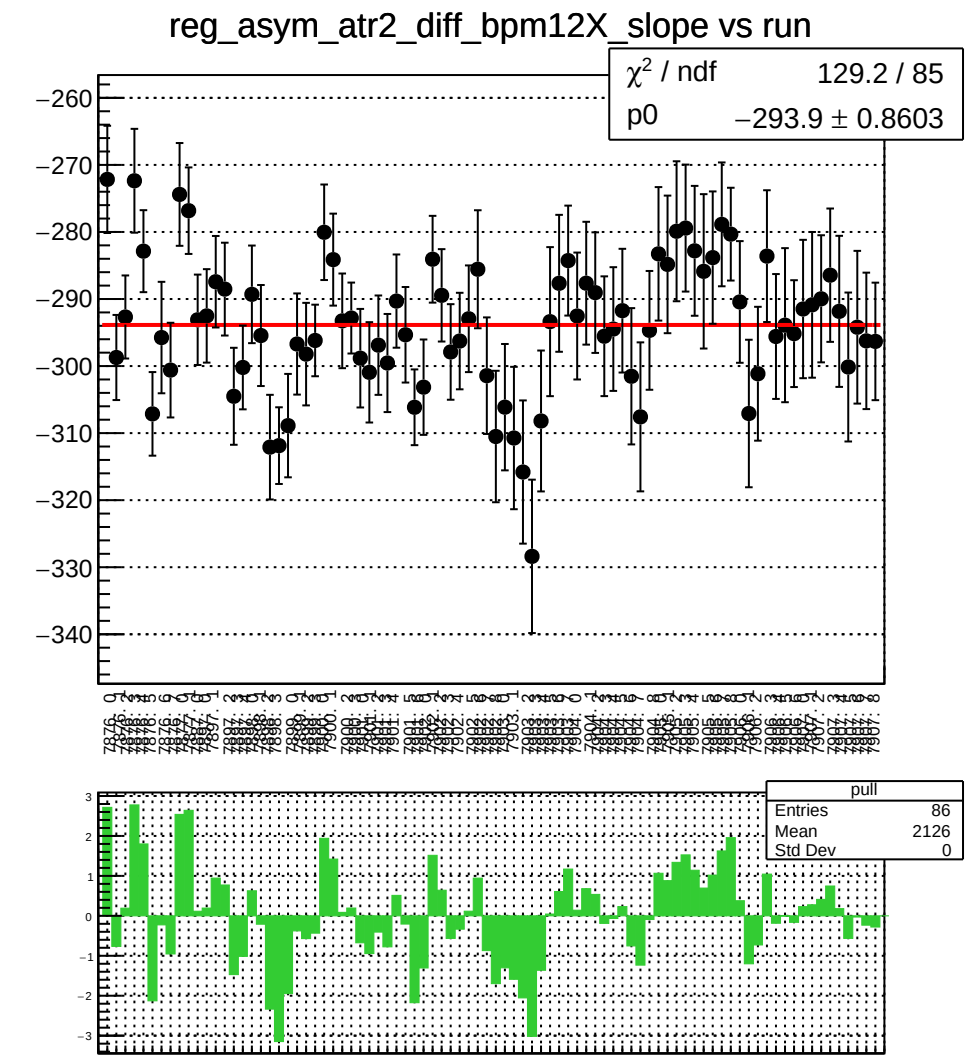

pull1D
Entries 86
Mean 0.02756
Std Dev 0.1981

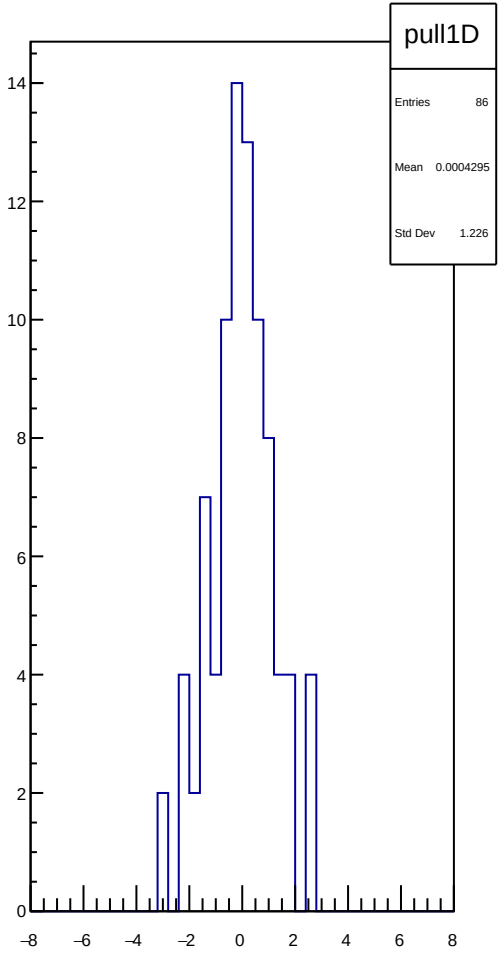

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 304.1 / 85
p0 561.3 ± 14.1
800
600
400
200
0
pull
Entries 86
Mean 49.8
Std Dev 16.18
6
4
2
0
−2
−4

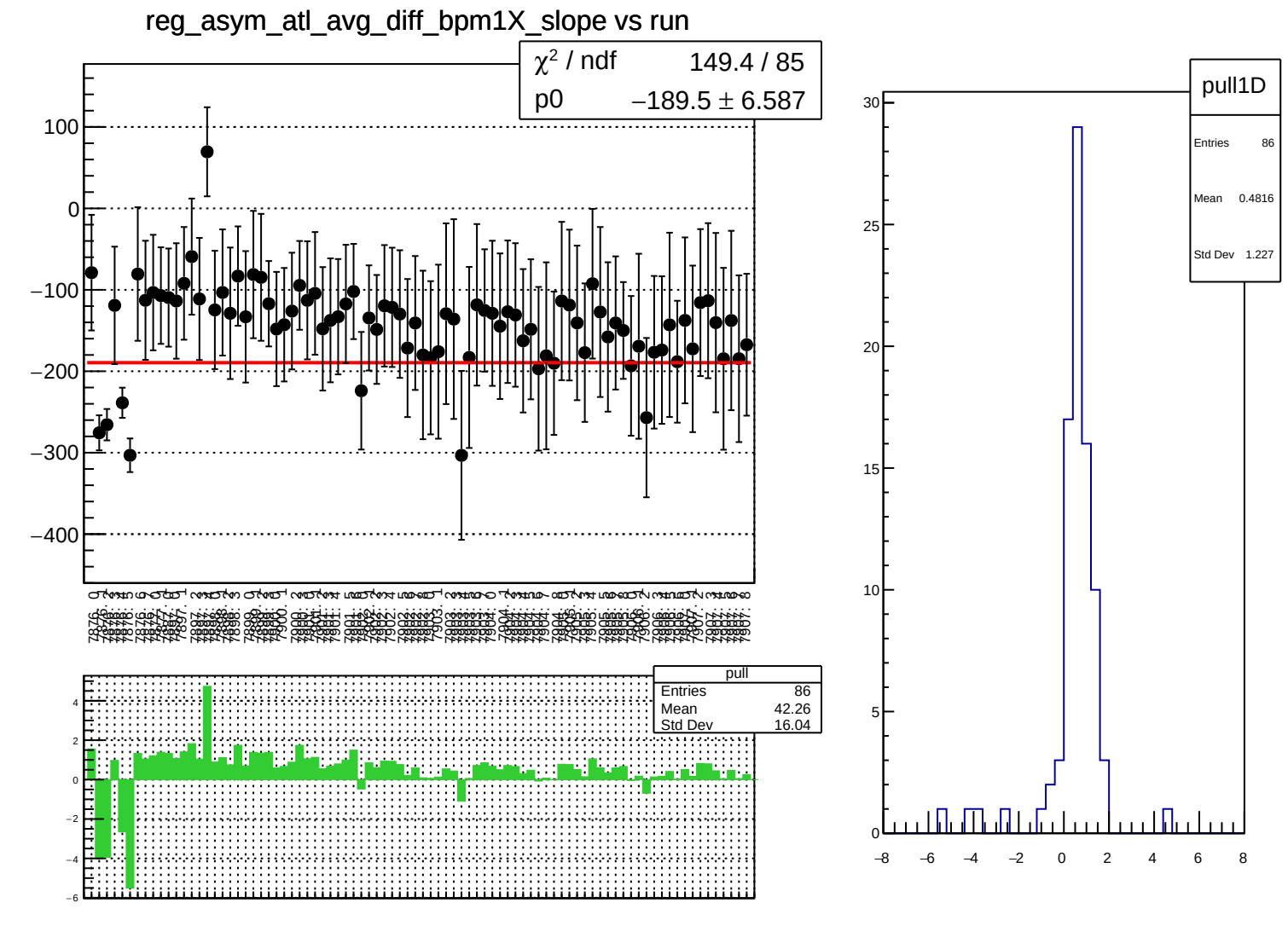

pull1D
Entries 86
Mean −1.042
Std Dev 1.565
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

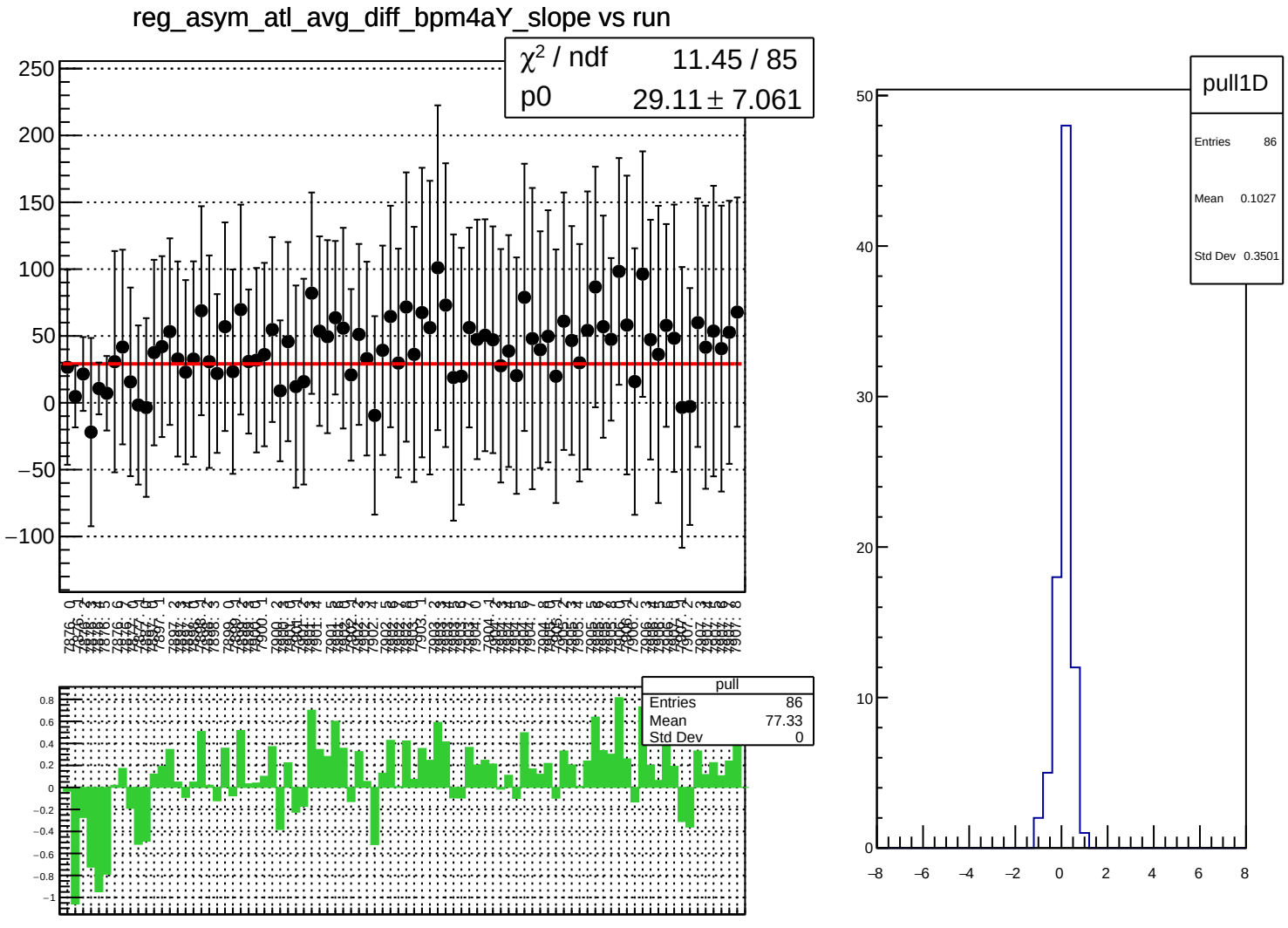

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.424 / 85
p0 10.29 ± 24.5
400
200
0
−200
−400
pull
Entries 86
Mean 73.91
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

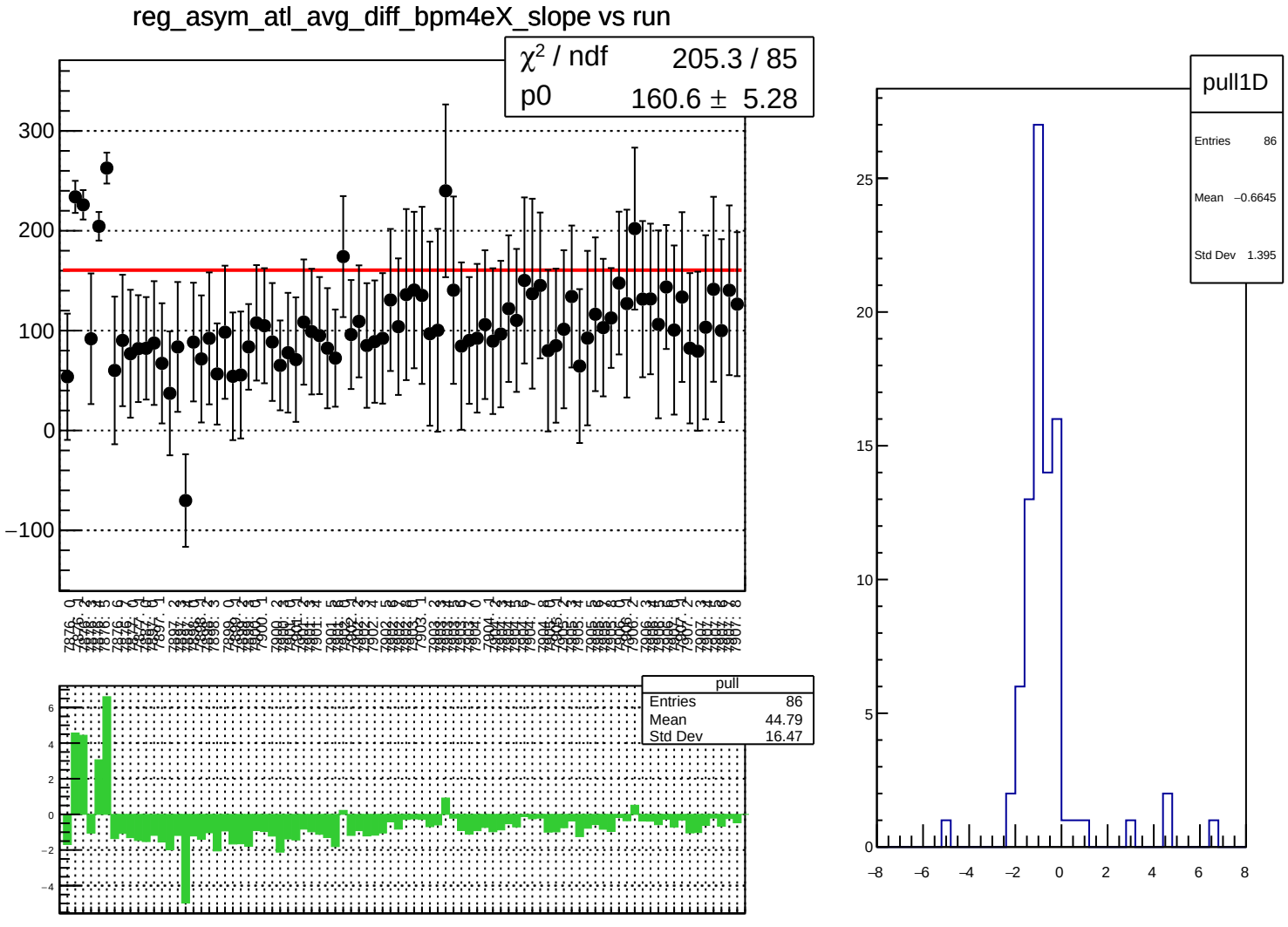

pull1D
Entries 86
Mean −0.02781
Std Dev 0.1976
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

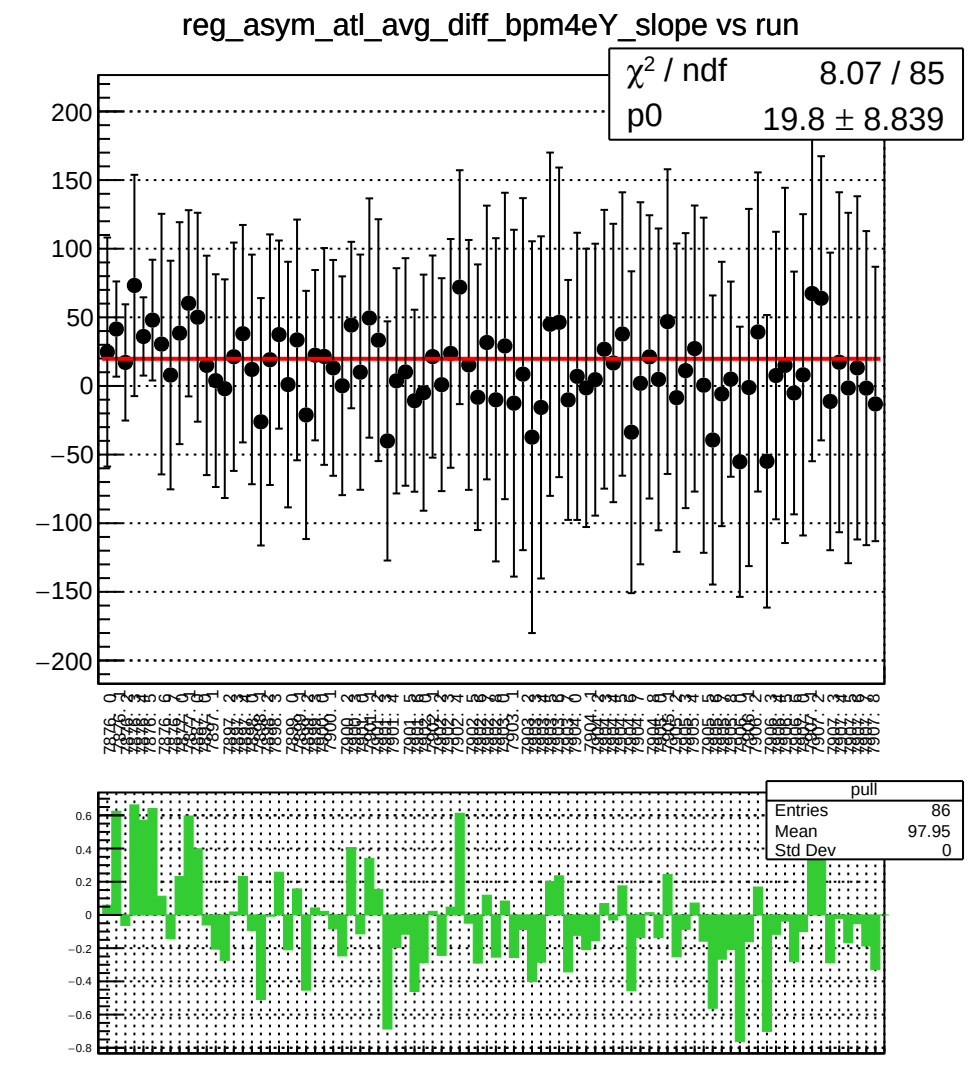

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 129.2 / 85
p0 −293.9 ± 0.8603
pull
Entries 86
Mean 2126
Std Dev 0

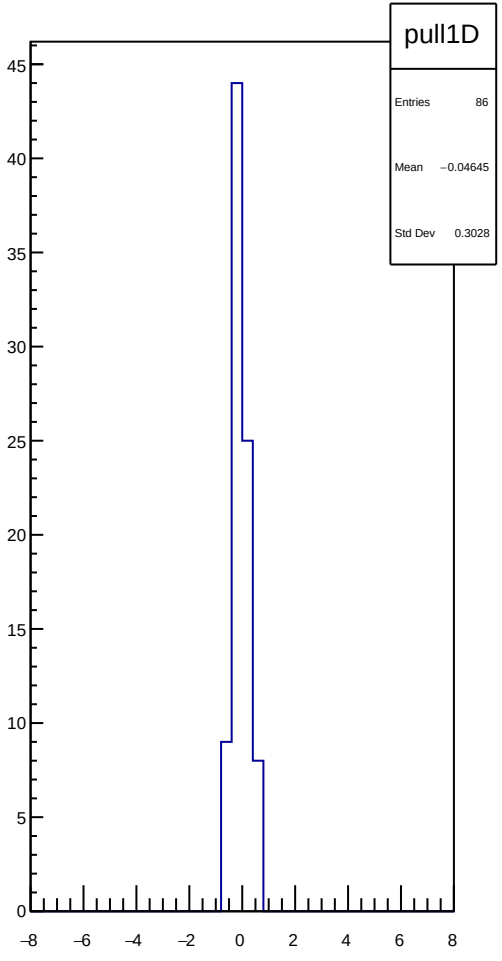

pull1D
Entries 86
Mean 0.0004295
Std Dev 1.226

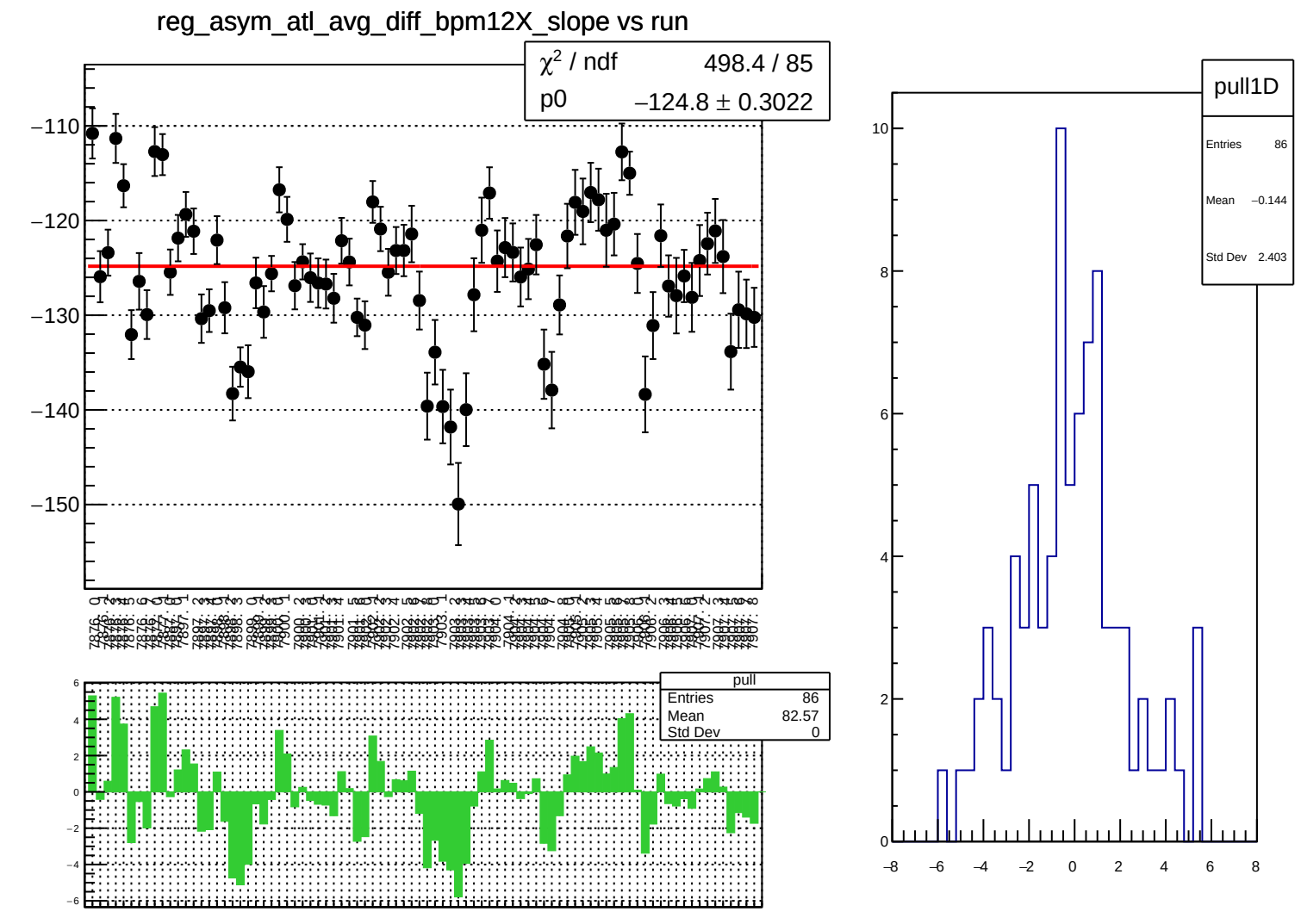

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 149.4 / 85
p0 −189.5 ± 6.587
pull
Entries 86
Mean 42.26
Std Dev 16.04
pull1D
Entries 86
Mean 0.4816
Std Dev 1.227

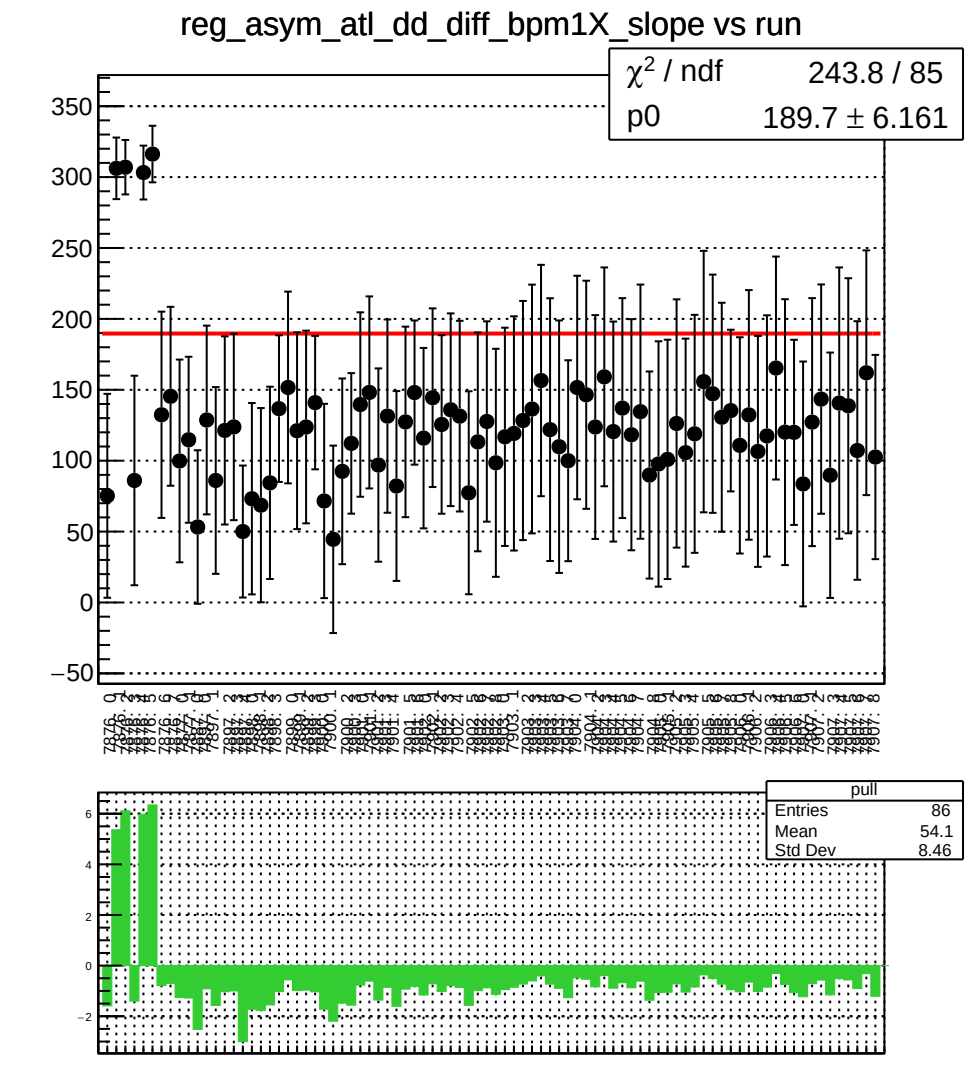

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.45 / 85
p0 29.11 ± 7.061
pull
Entries 86
Mean 77.33
Std Dev 0
pull1D
Entries 86
Mean 0.1027
Std Dev 0.3501

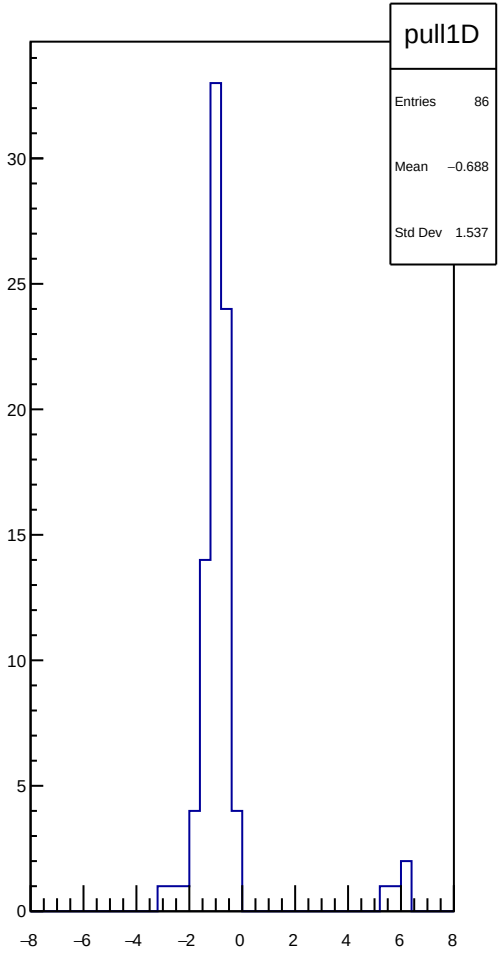

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 205.3 / 85
p0 160.6 ± 5.28
300
200
100
0
−100
pull
Entries 86
Mean 44.79
Std Dev 16.47
6
4
2
0
−2
−4
pull1D
Entries 86
Mean −0.6645
Std Dev 1.395
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

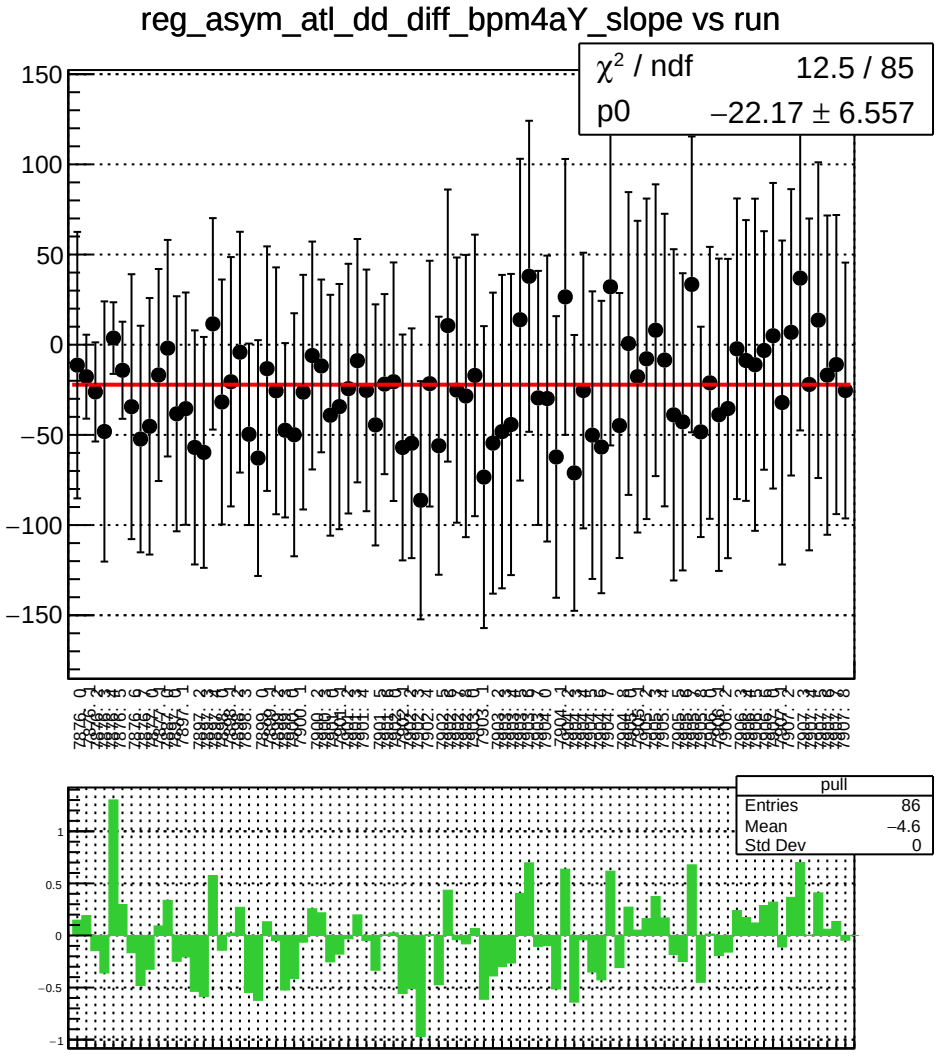

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.07 / 85
p0 19.8 ± 8.839
pull
Entries 86
Mean 97.95
Std Dev 0

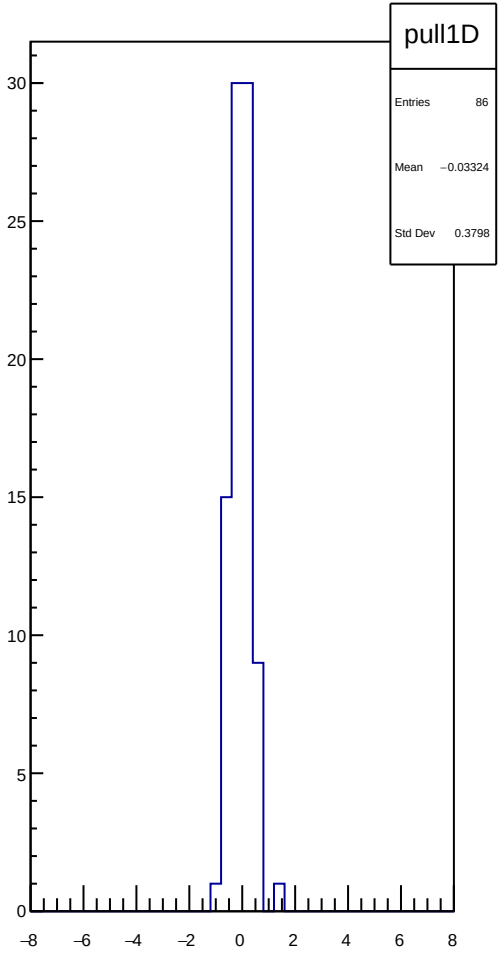

pull1D
Entries 86
Mean −0.04645
Std Dev 0.3028

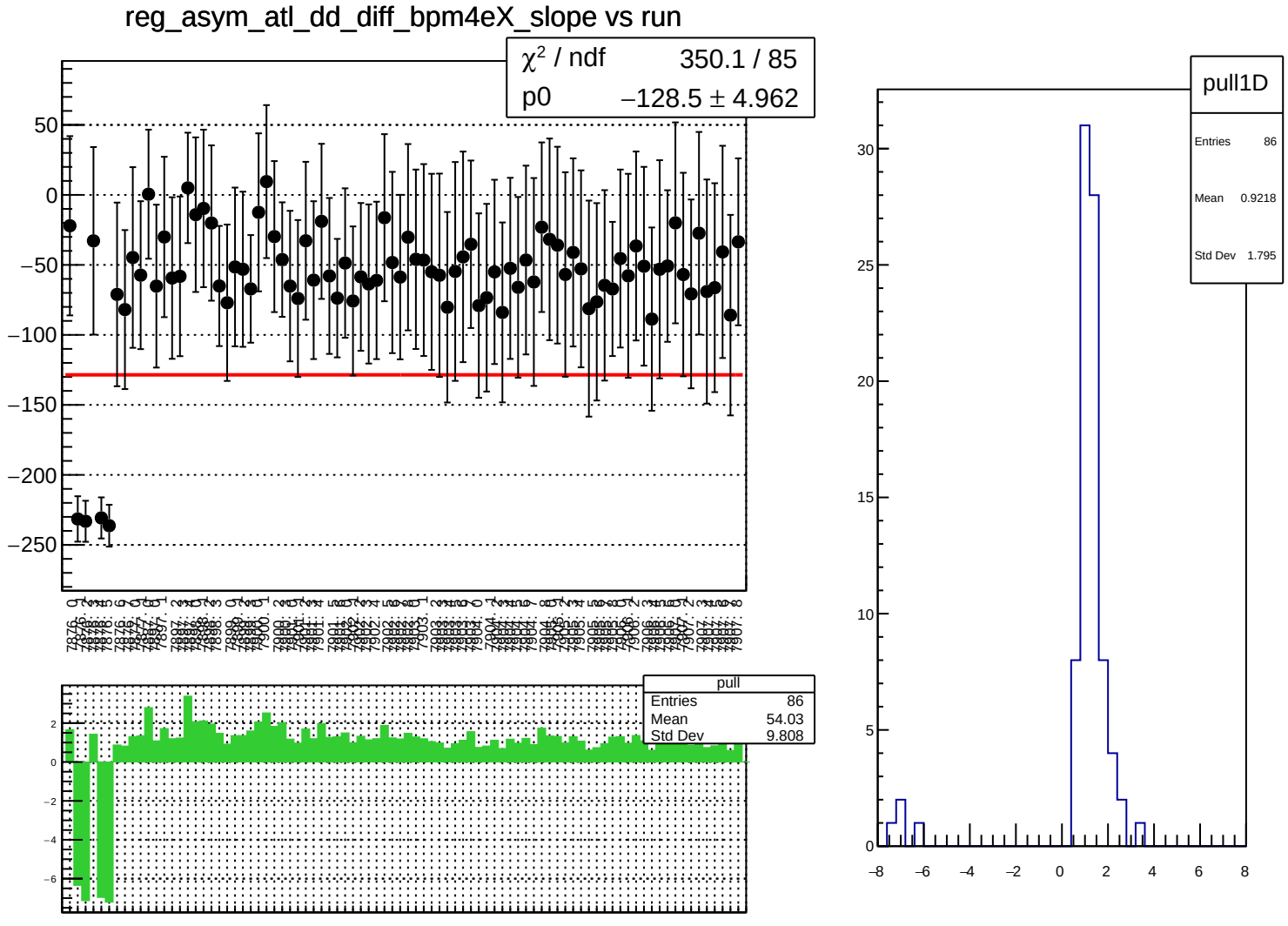

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 498.4 / 85
p0 −124.8 ± 0.3022
pull
Entries 86
Mean 82.57
Std Dev 0
pull1D
Entries 86
Mean −0.144
Std Dev 2.403

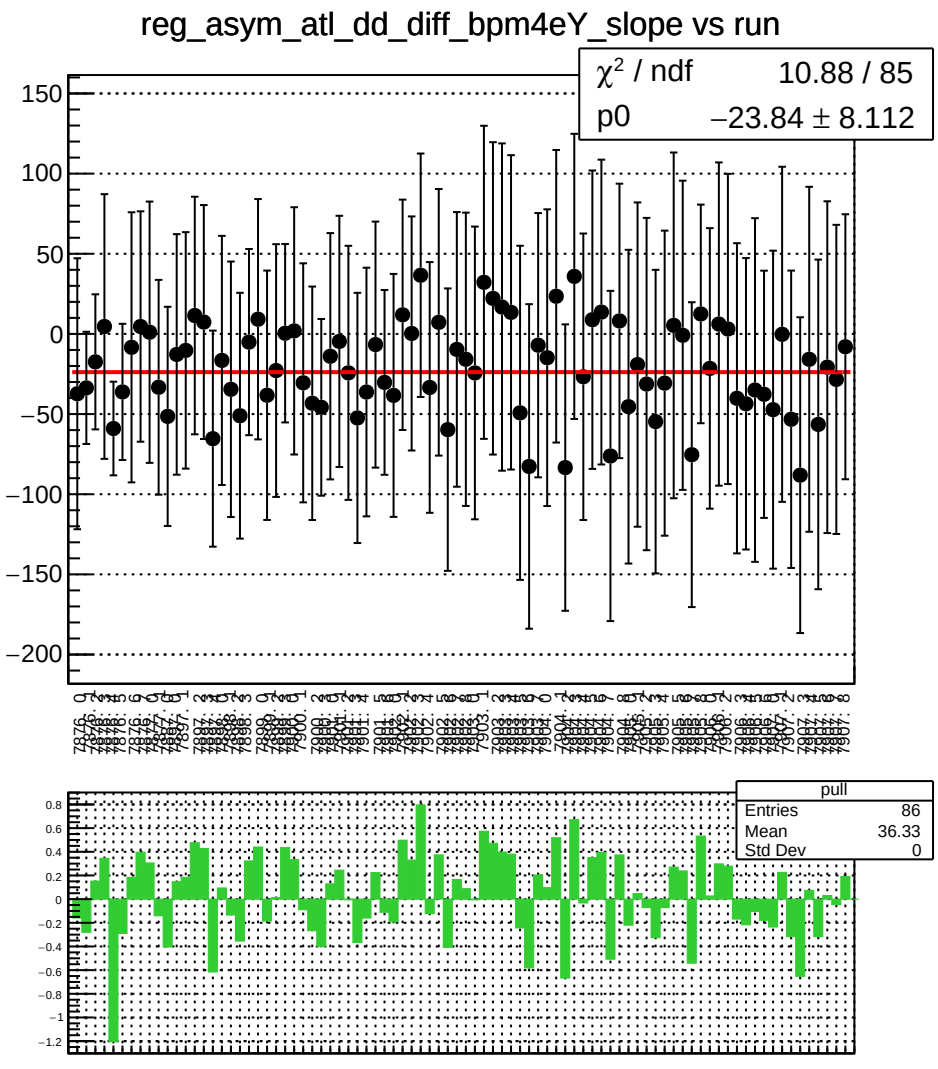

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 243.8 / 85
p0 189.7 ± 6.161
pull
Entries 86
Mean 54.1
Std Dev 8.46

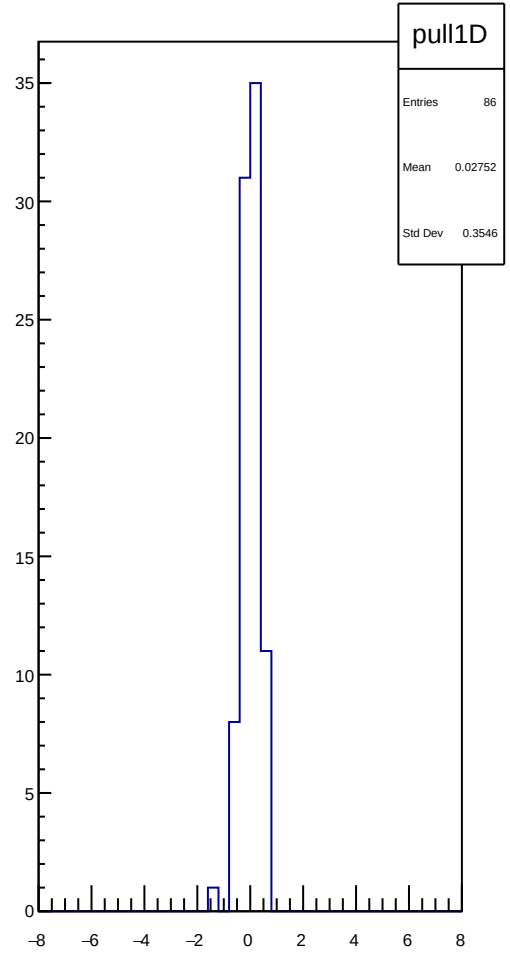

pull1D
Entries 86
Mean −0.688
Std Dev 1.537

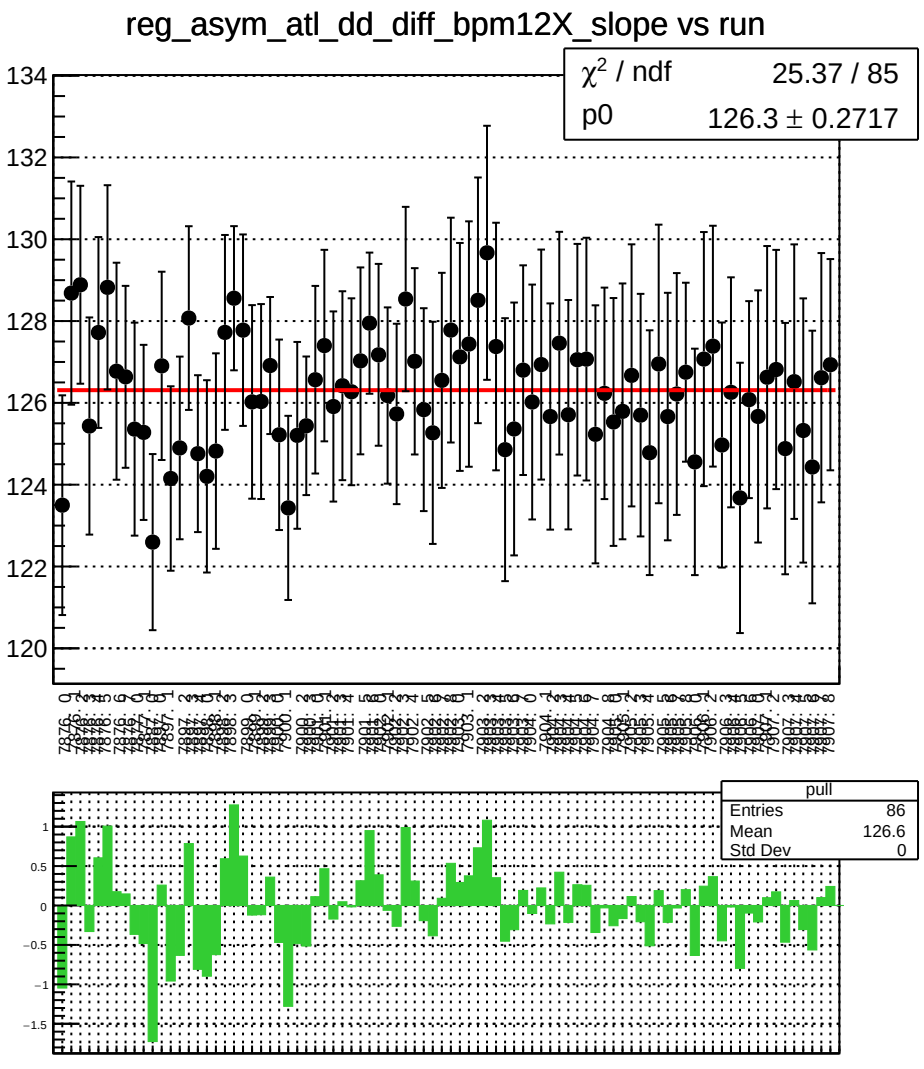

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.5 / 85
p0 −22.17 ± 6.557
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −4.6
Std Dev 0
1
0.5
0
−0.5
−1

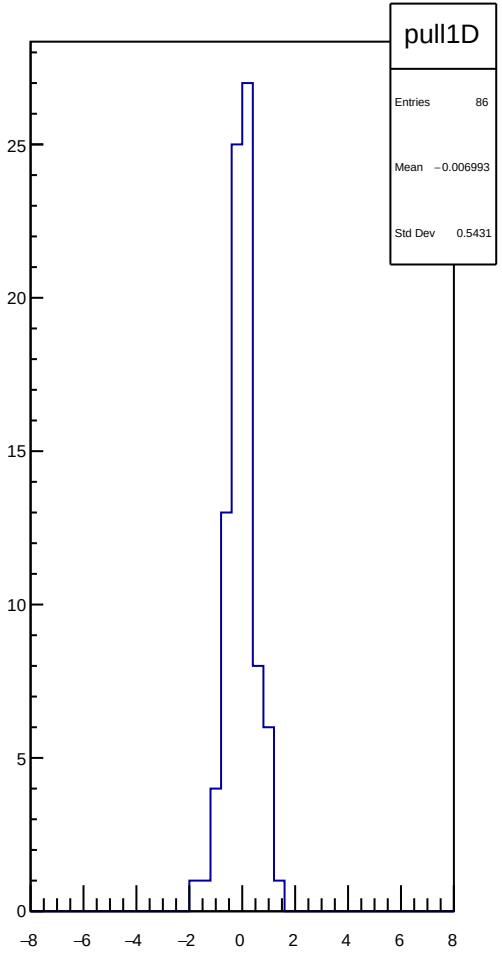

pull1D
Entries 86
Mean −0.03324
Std Dev 0.3798
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

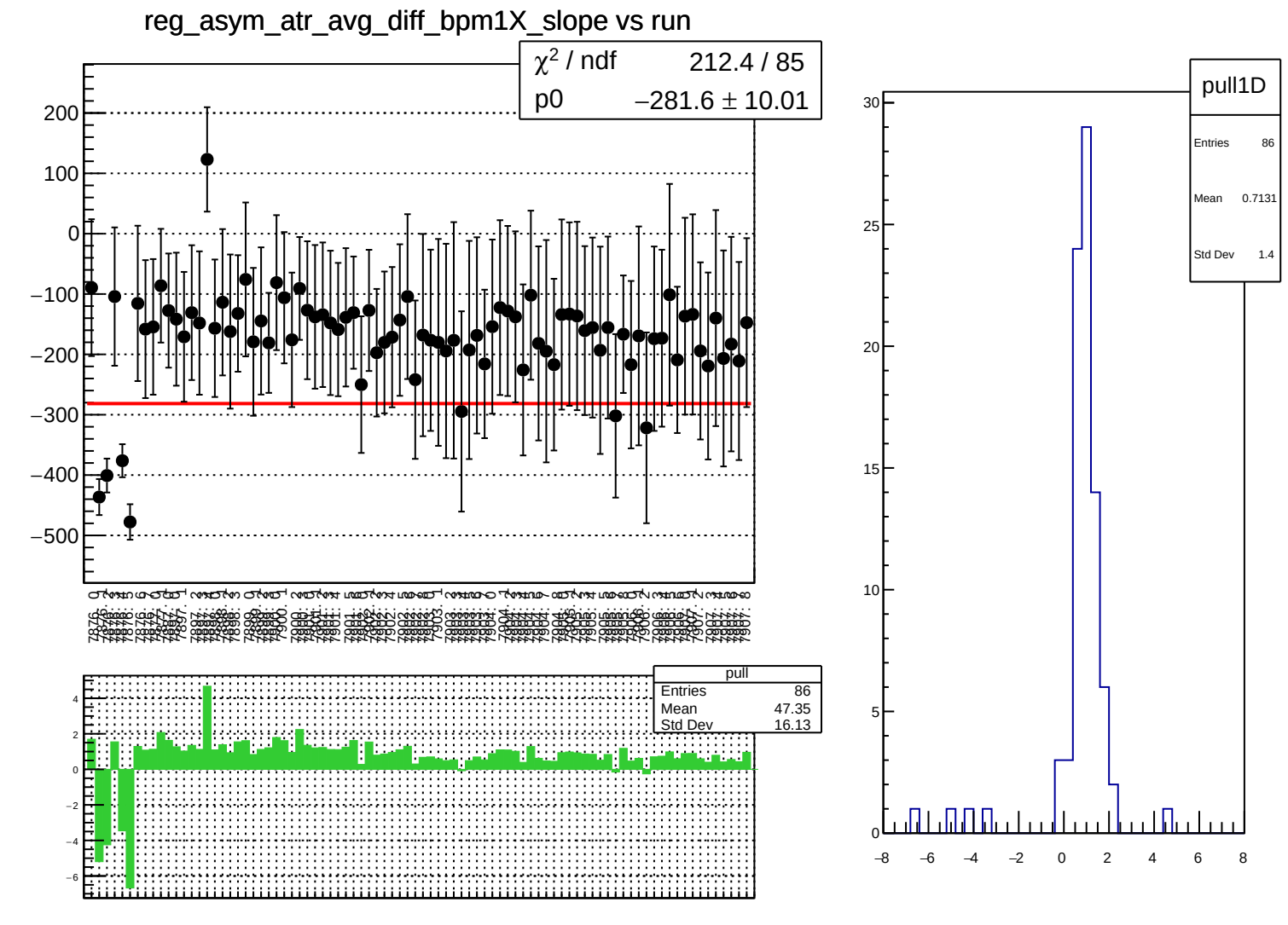

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 350.1 / 85
p0 −128.5 ± 4.962
pull
Entries 86
Mean 54.03
Std Dev 9.808
pull1D
Entries 86
Mean 0.9218
Std Dev 1.795

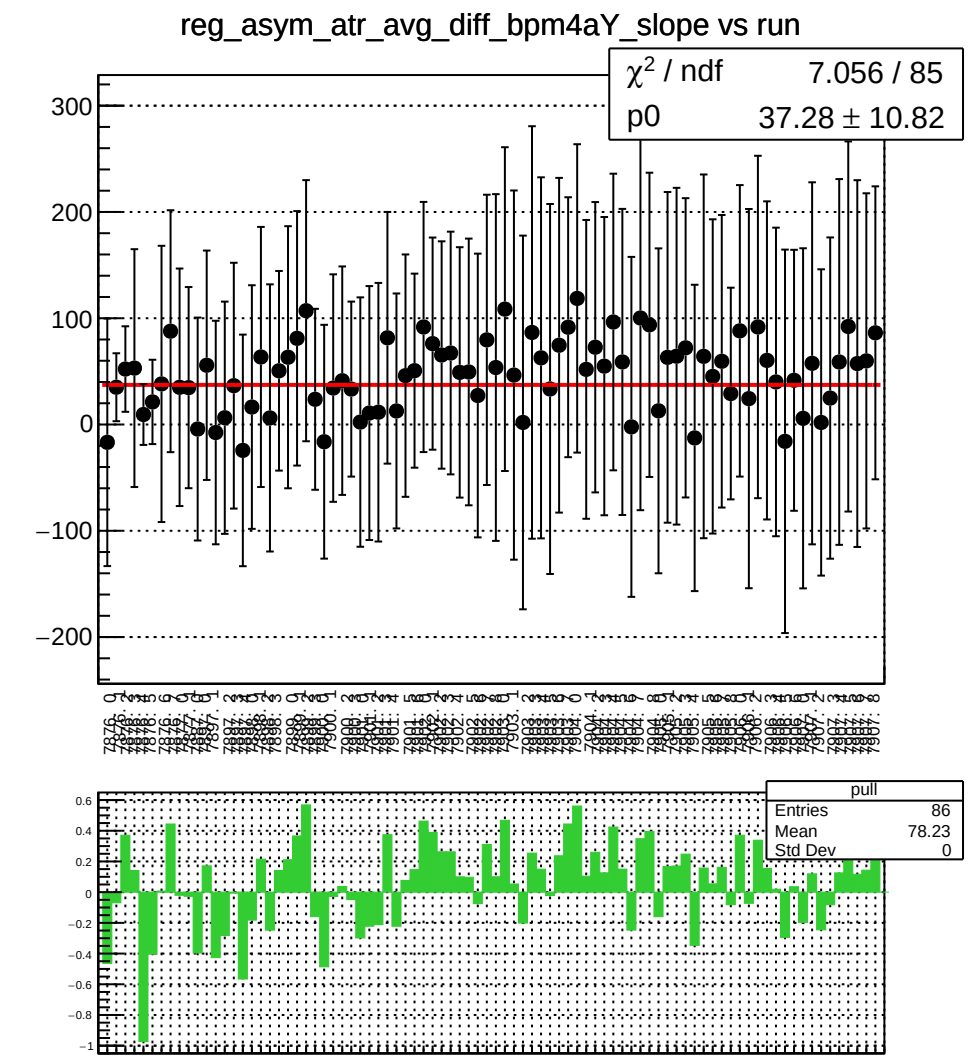

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.88 / 85
p0 −23.84 ± 8.112
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 36.33
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

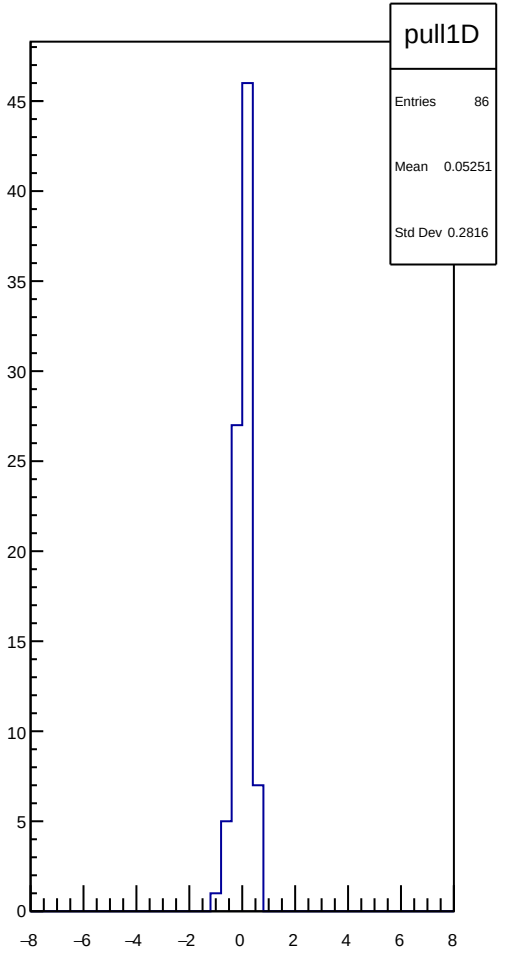

pull1D
Entries 86
Mean 0.02752
Std Dev 0.3546
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

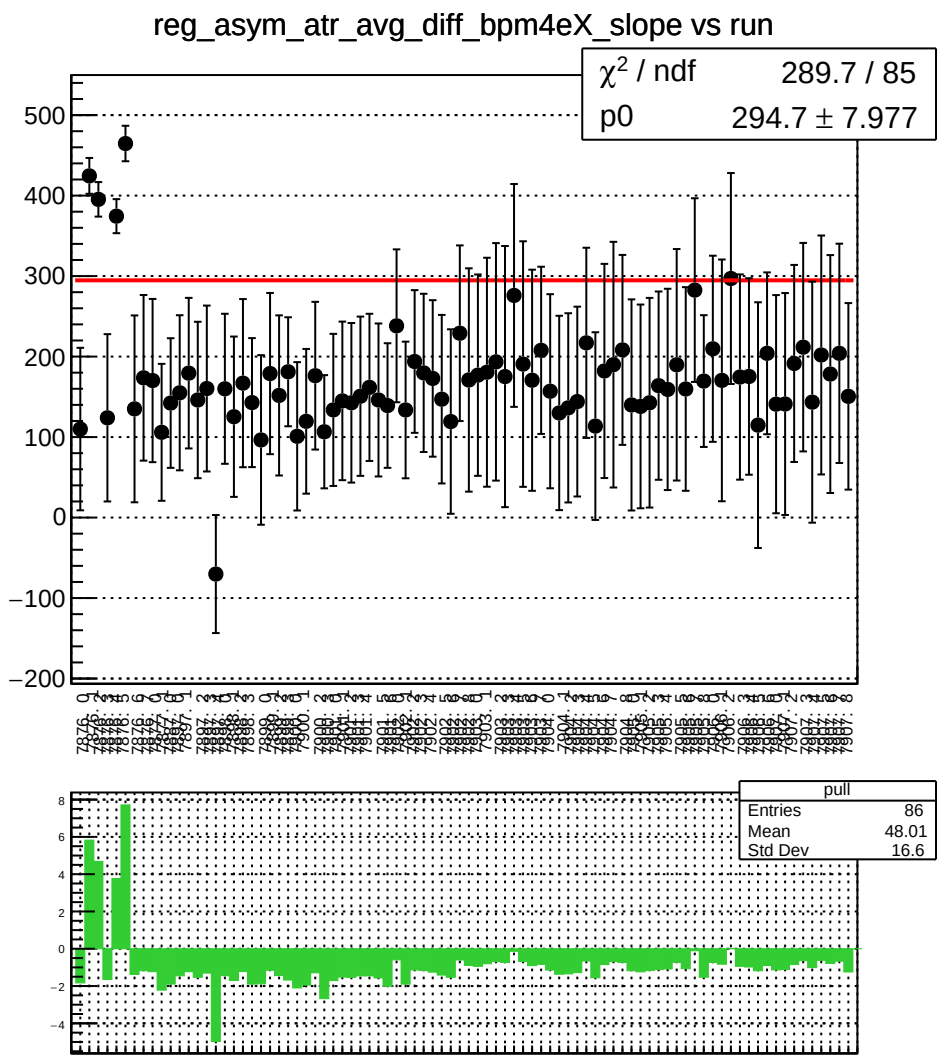

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 25.37 / 85
p0 126.3 ± 0.2717
134
132
130
128
126
124
122
120
pull
Entries 86
Mean 126.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

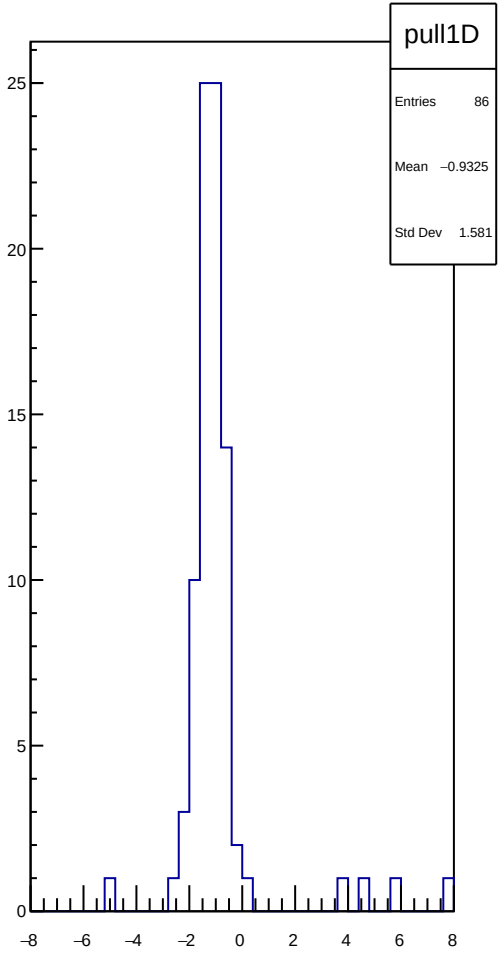

pull1D
Entries 86
Mean −0.006993
Std Dev 0.5431
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

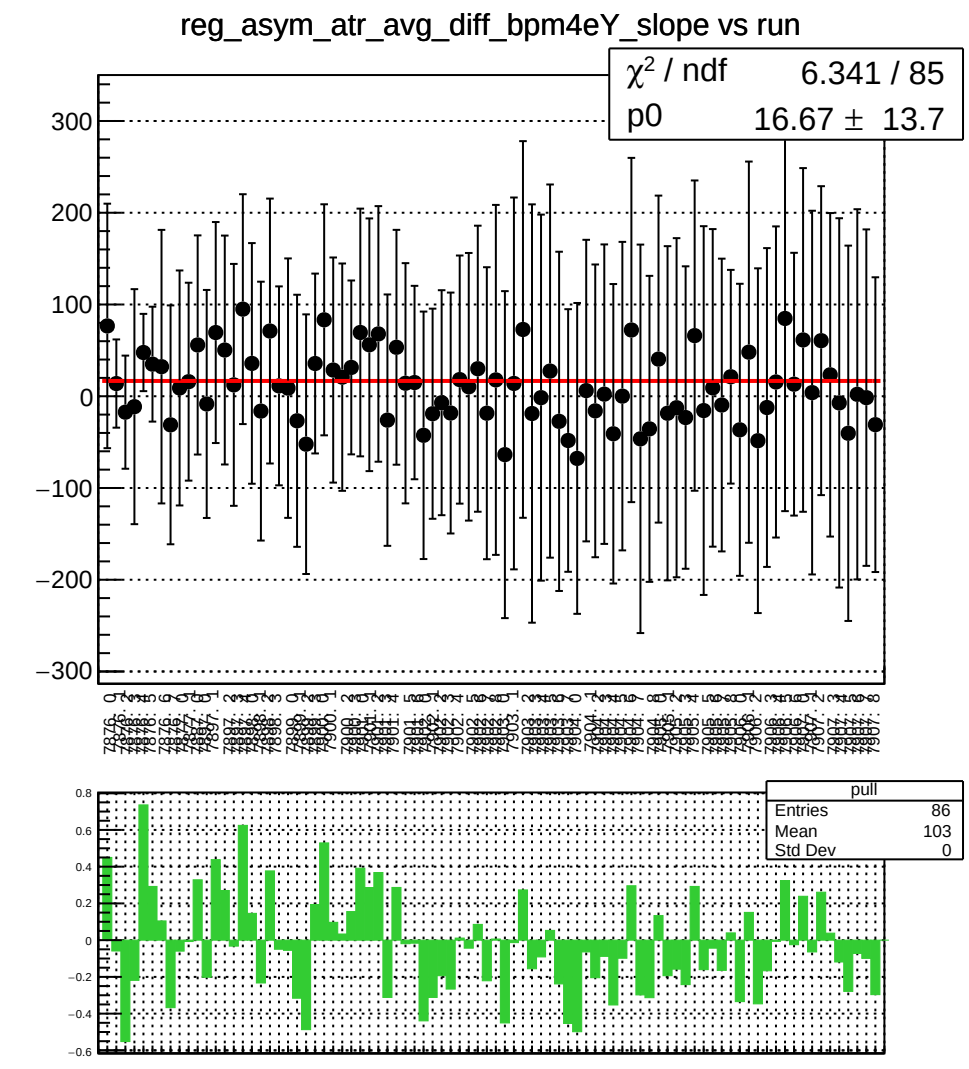

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 212.4 / 85
p0 −281.6 ± 10.01
pull
Entries 86
Mean 47.35
Std Dev 16.13
pull1D
Entries 86
Mean 0.7131
Std Dev 1.4

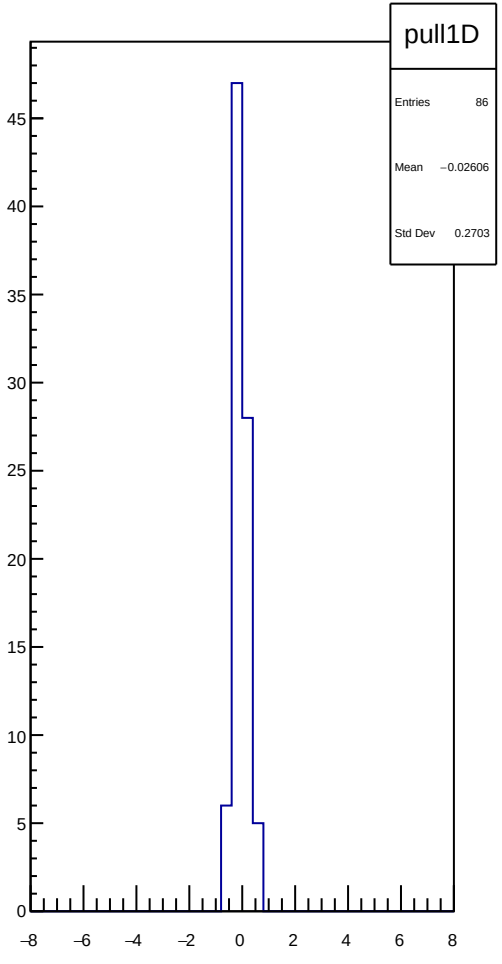

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.056 / 85
p0 37.28 ± 10.82
300
200
100
0
−100
−200
pull
Entries 86
Mean 78.23
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

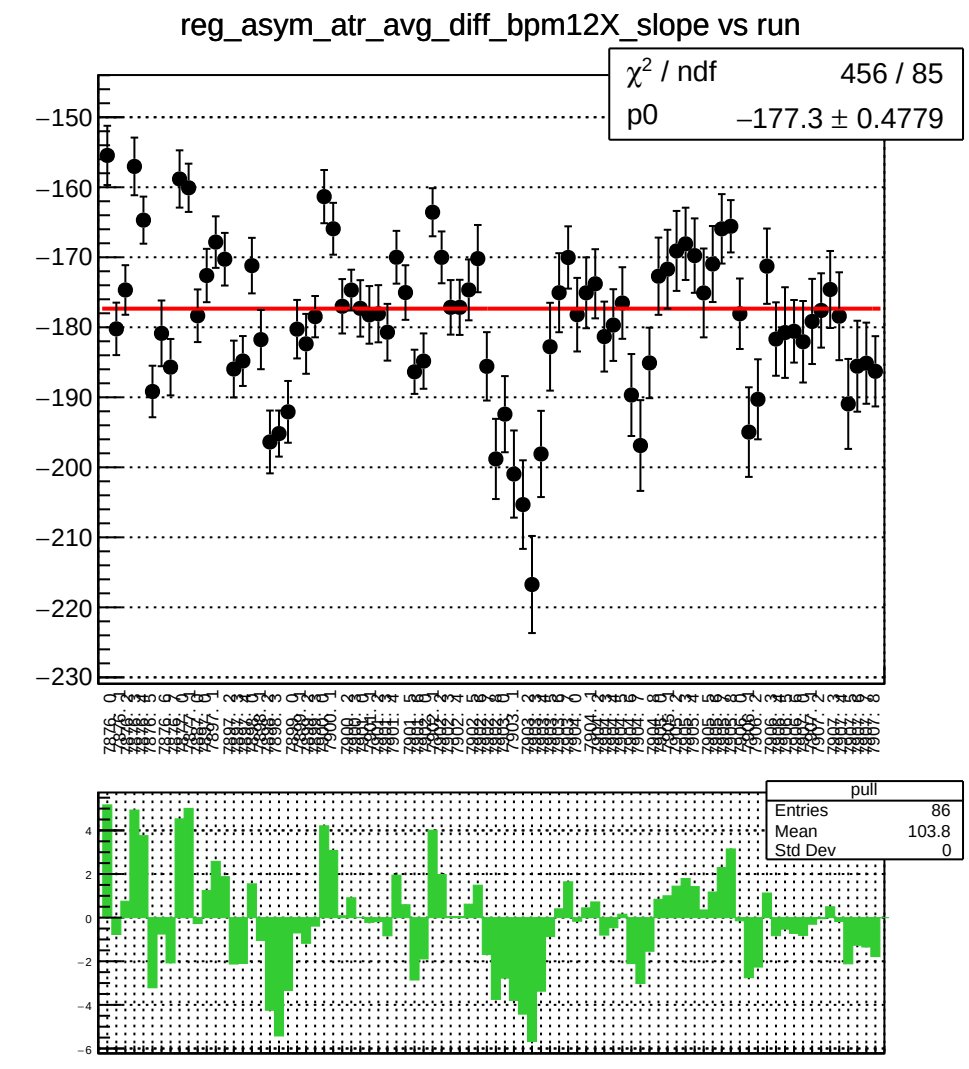

pull1D
Entries 86
Mean 0.05251
Std Dev 0.2816
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

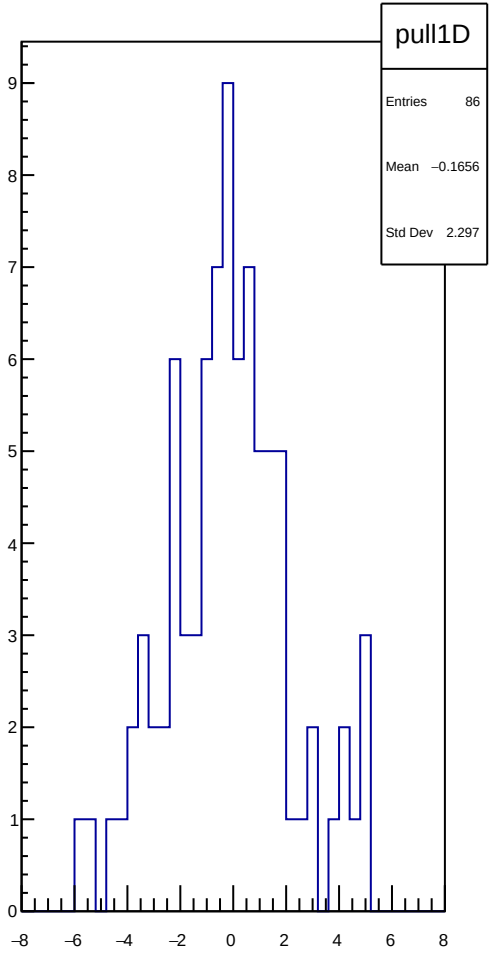

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 289.7 / 85
p0 294.7 ± 7.977
pull
Entries 86
Mean 48.01
Std Dev 16.6

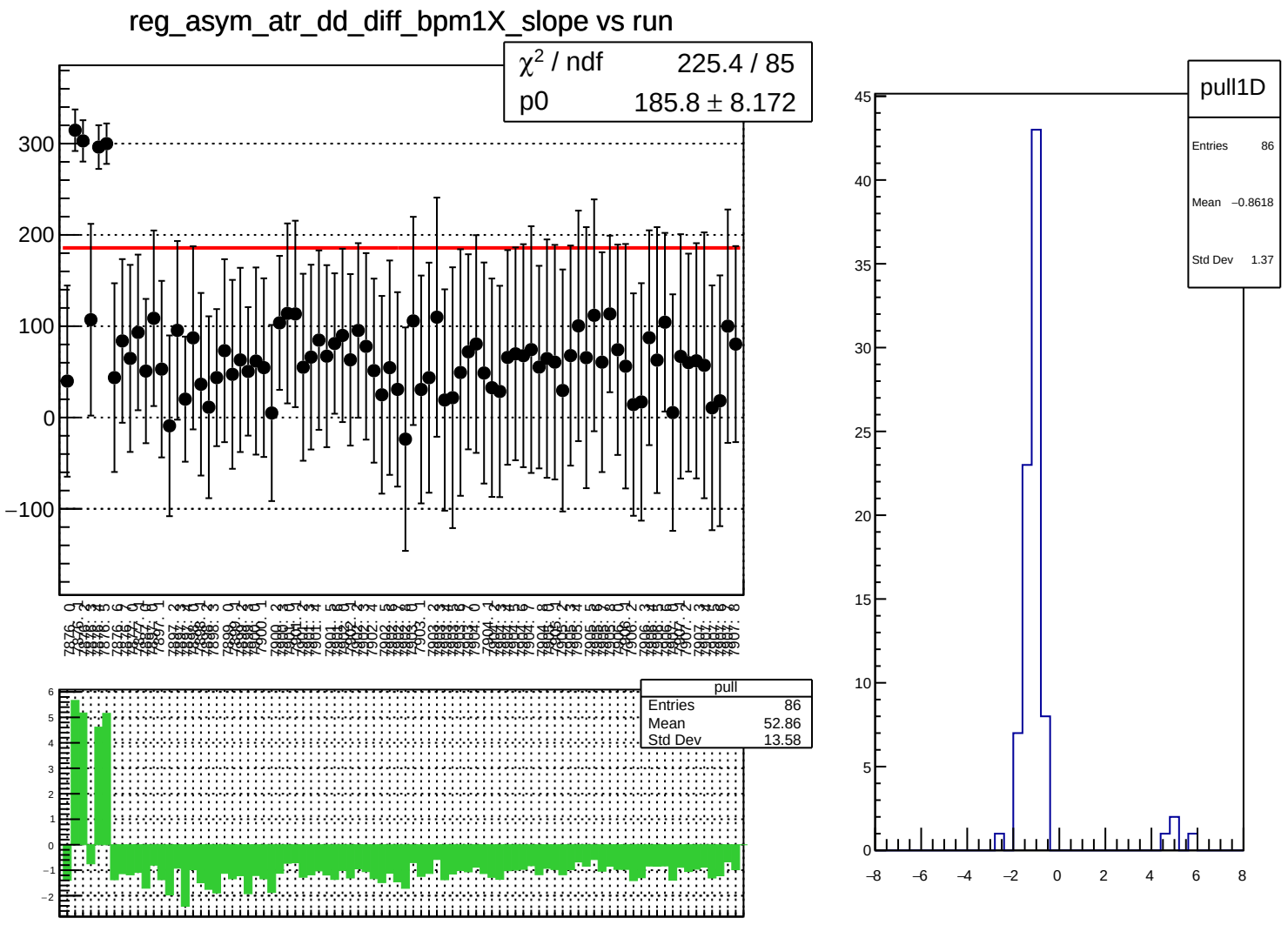

pull1D
Entries 86
Mean −0.9325
Std Dev 1.581

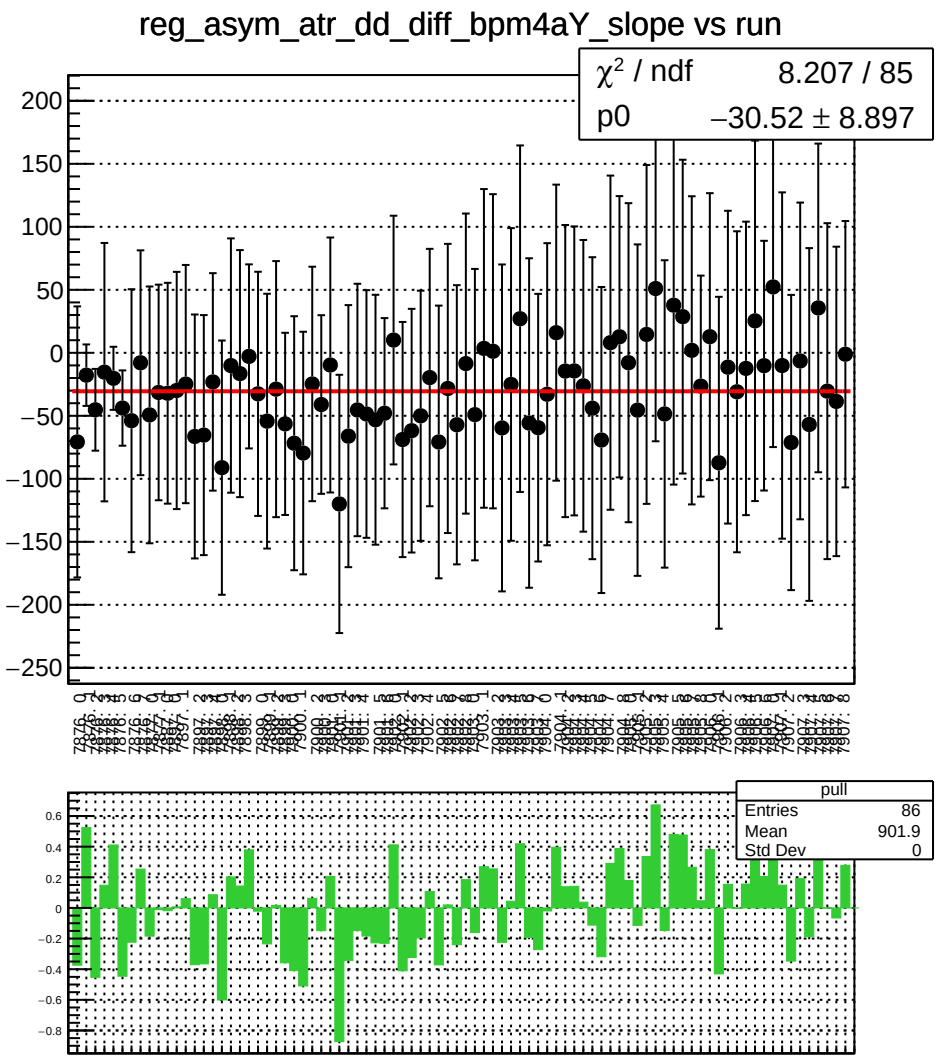

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.341 / 85
p0 16.67 ± 13.7
pull
Entries 86
Mean 103
Std Dev 0

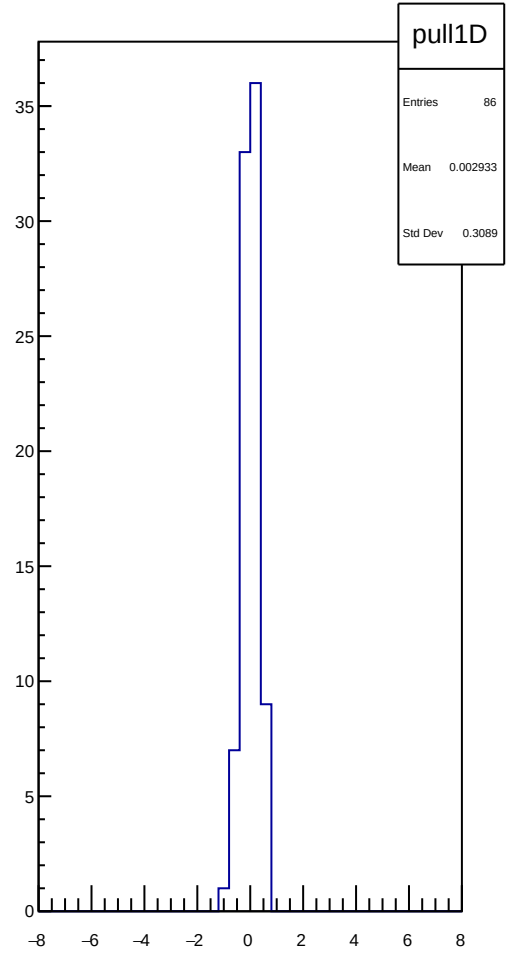

pull1D
Entries 86
Mean −0.02606
Std Dev 0.2703

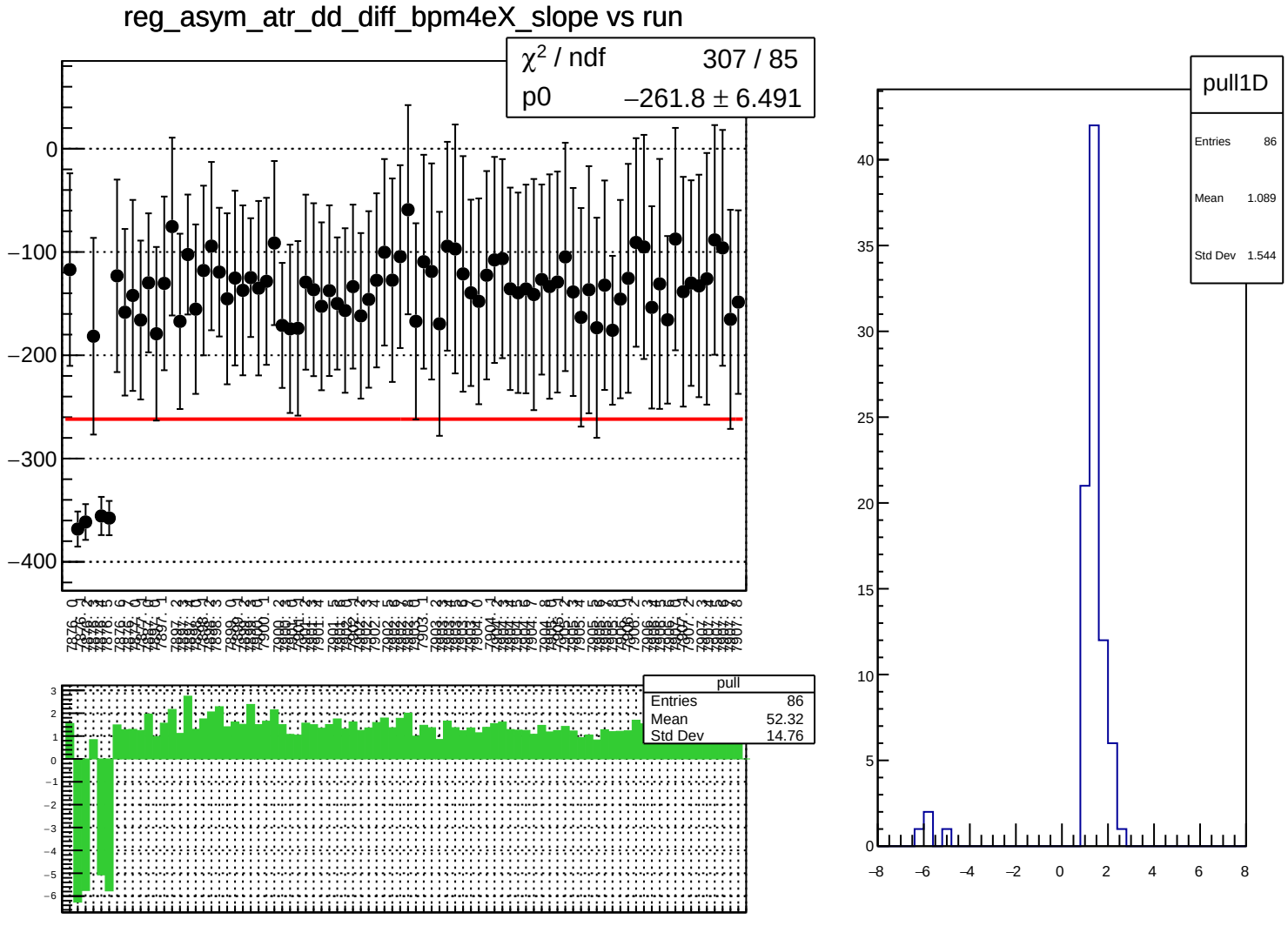

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 456 / 85
p0 −177.3 ± 0.4779
pull
Entries 86
Mean 103.8
Std Dev 0

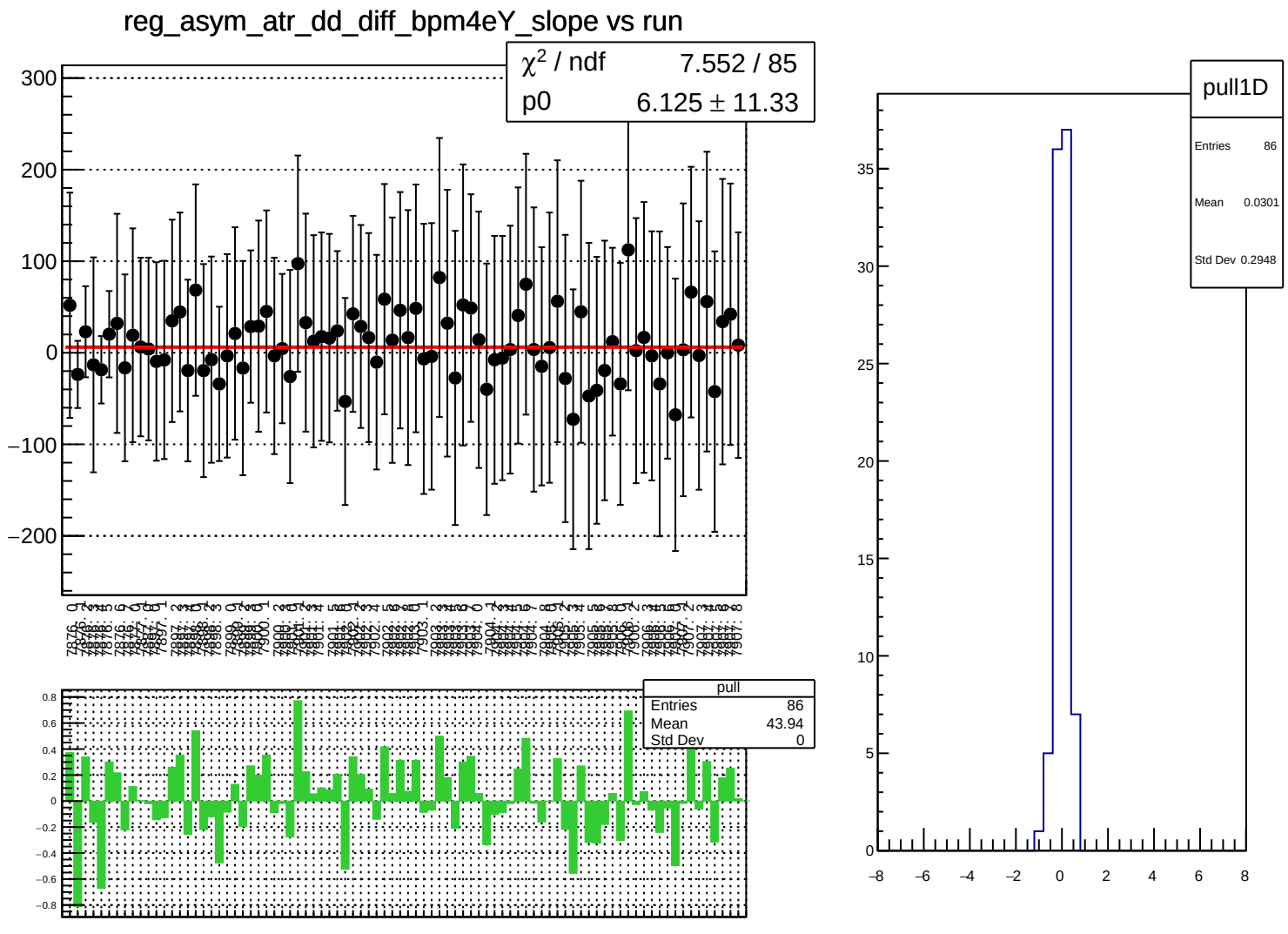

pull1D
Entries 86
Mean −0.1656
Std Dev 2.297

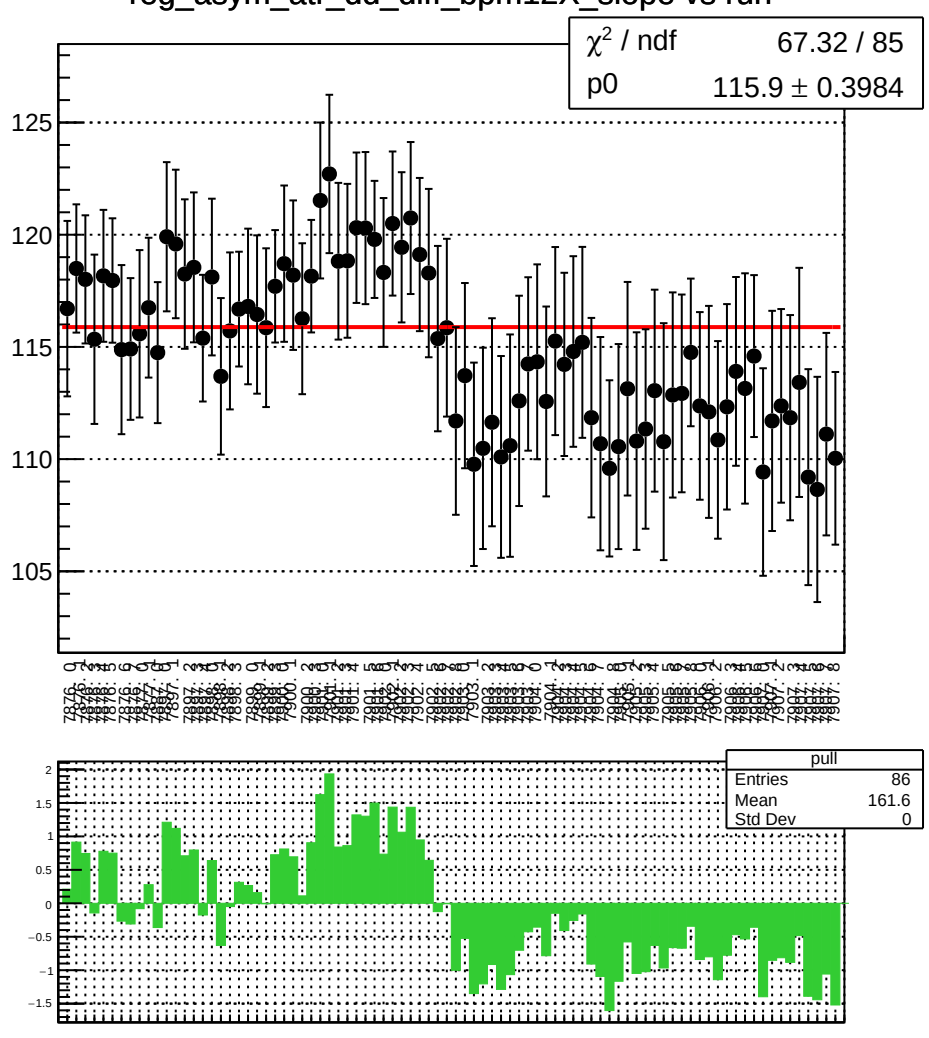

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 225.4 / 85
p0 185.8 ± 8.172
300
200
100
0
−100
pull
Entries 86
Mean 52.86
Std Dev 13.58
6
5
4
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.8618
Std Dev 1.37
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

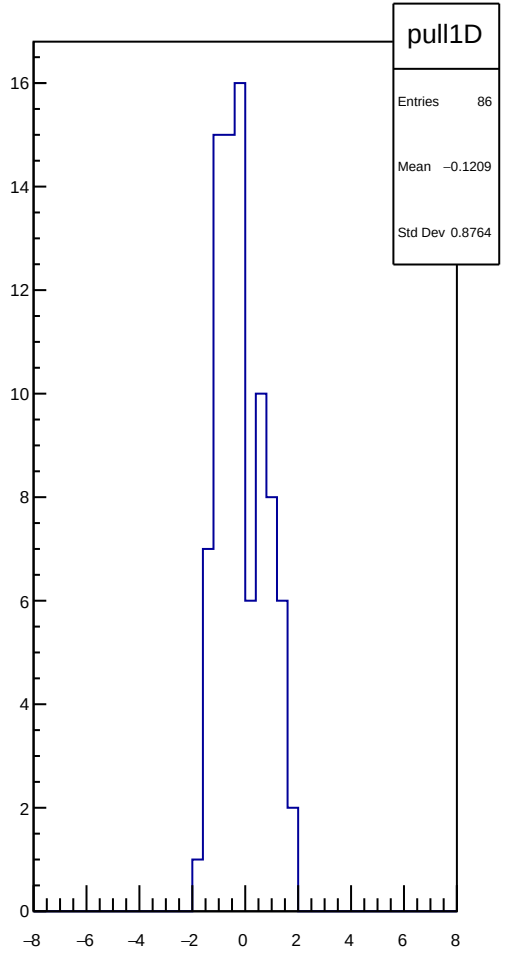

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.207 / 85
p0 −30.52 ± 8.897
pull
Entries 86
Mean 901.9
Std Dev 0

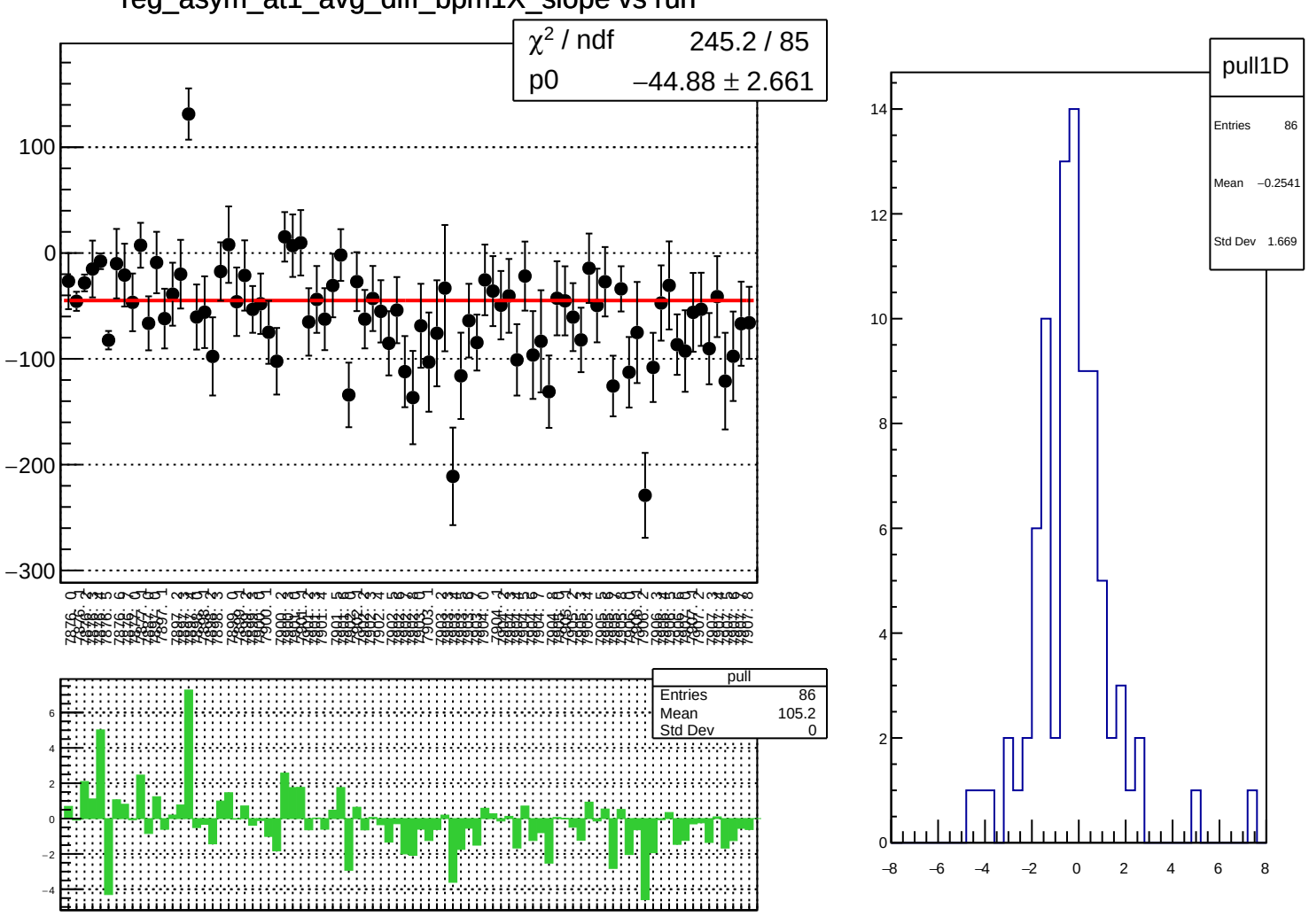

pull1D
Entries 86
Mean 0.002933
Std Dev 0.3089

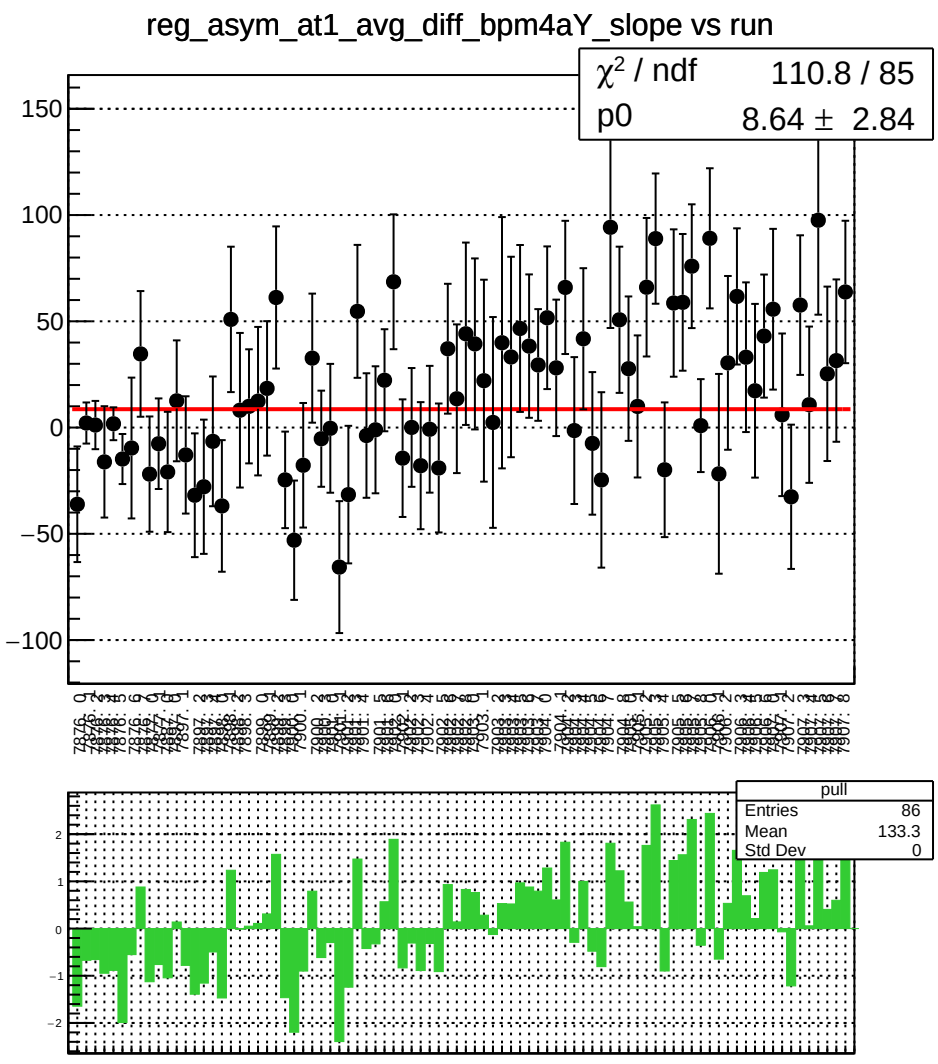

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 307 / 85
p0 −261.8 ± 6.491
0
−100
−200
−300
−400
pull
Entries 86
Mean 52.32
Std Dev 14.76
pull1D
Entries 86
Mean 1.089
Std Dev 1.544
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

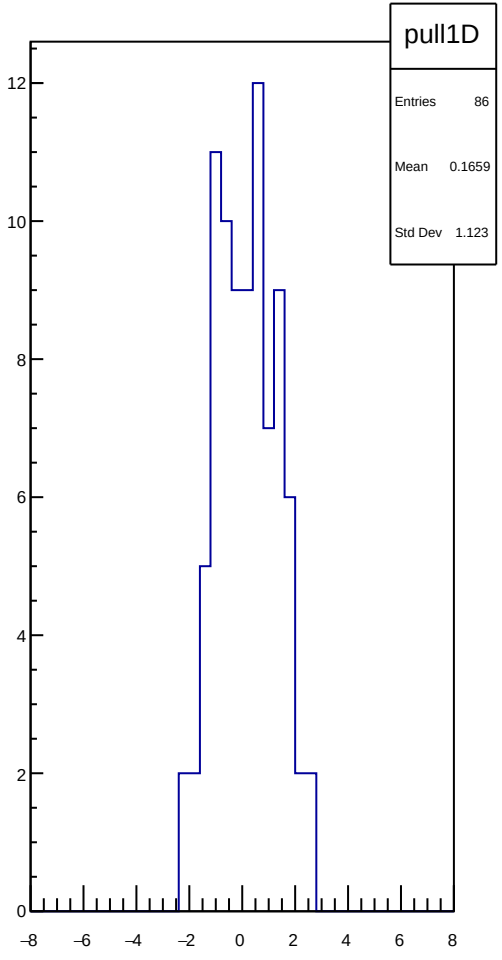

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.552 / 85
p0 6.125 ± 11.33
pull
Entries 86
Mean 43.94
Std Dev 0
pull1D
Entries 86
Mean 0.0301
Std Dev 0.2948

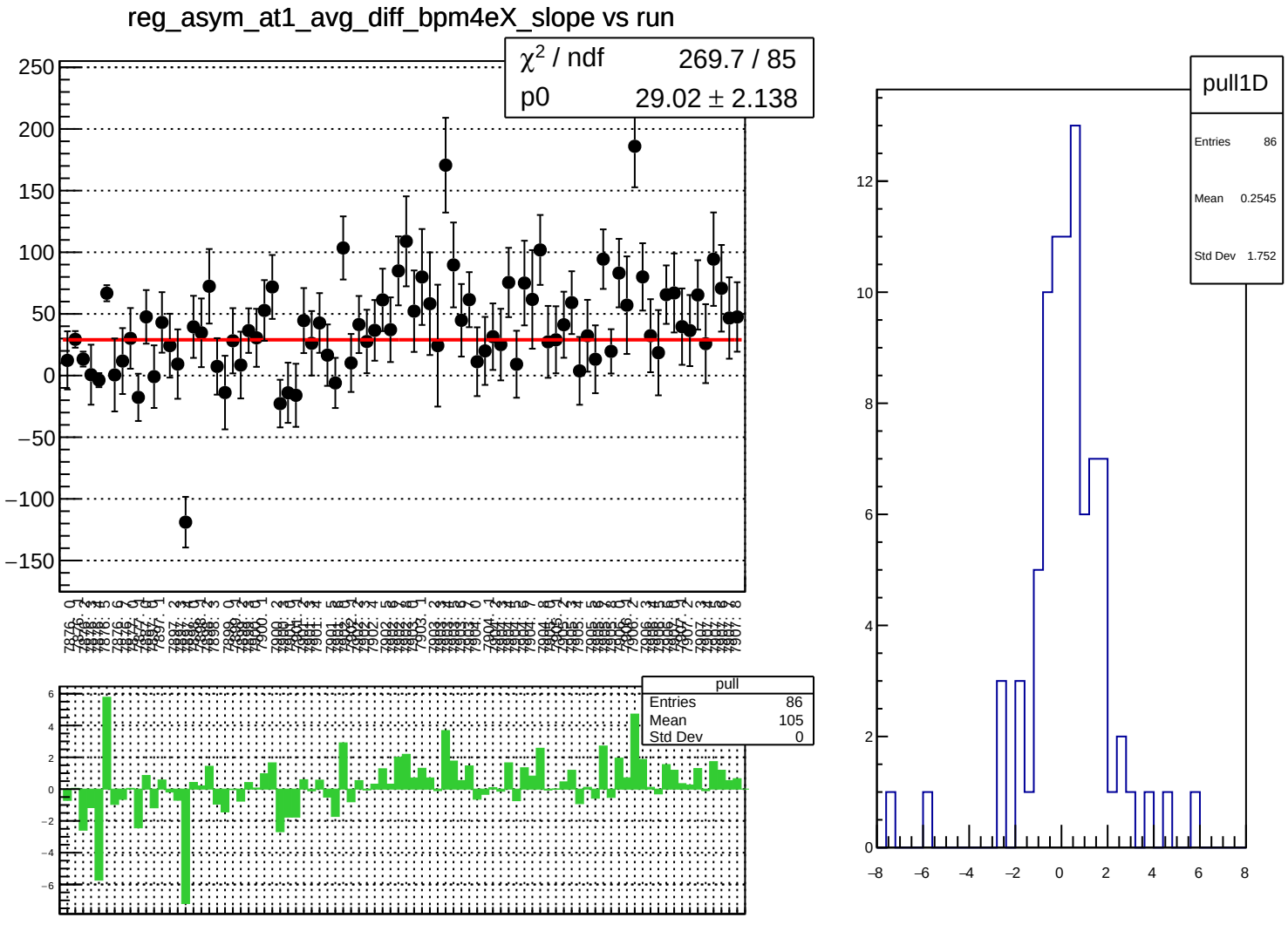

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 67.32 / 85
p0 115.9 ± 0.3984
125
120
115
110
105
pull
Entries 86
Mean 161.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

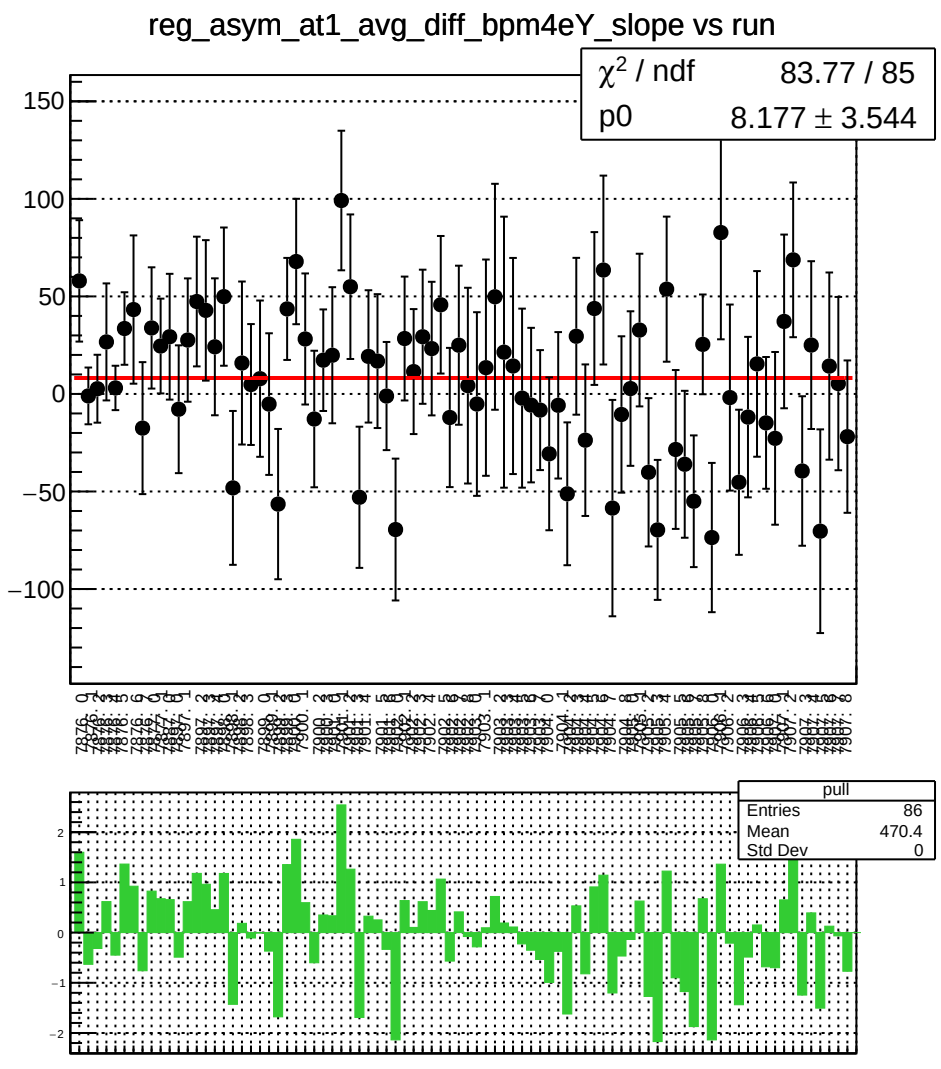

pull1D
Entries 86
Mean −0.1209
Std Dev 0.8764
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

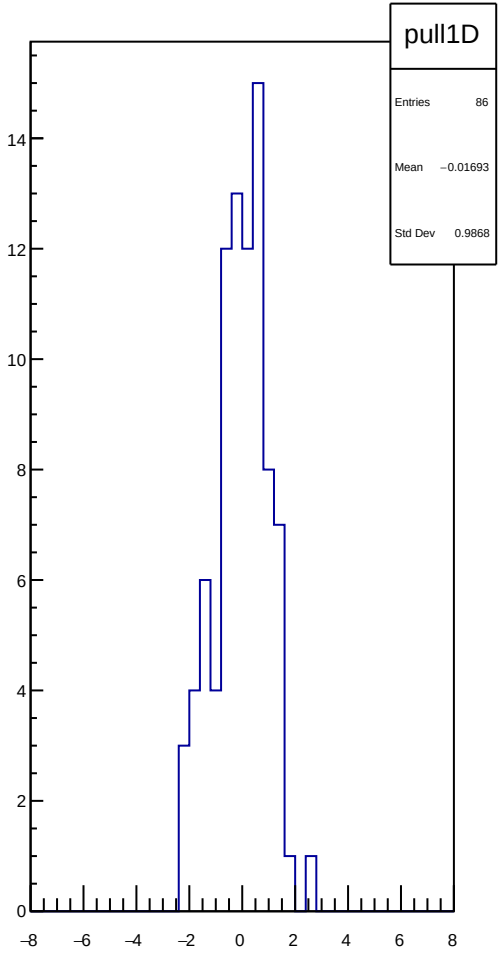

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 245.2 / 85
p0 −44.88 ± 2.661
100
0
−100
−200
−300
pull
Entries 86
Mean 105.2
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 86
Mean −0.2541
Std Dev 1.669
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

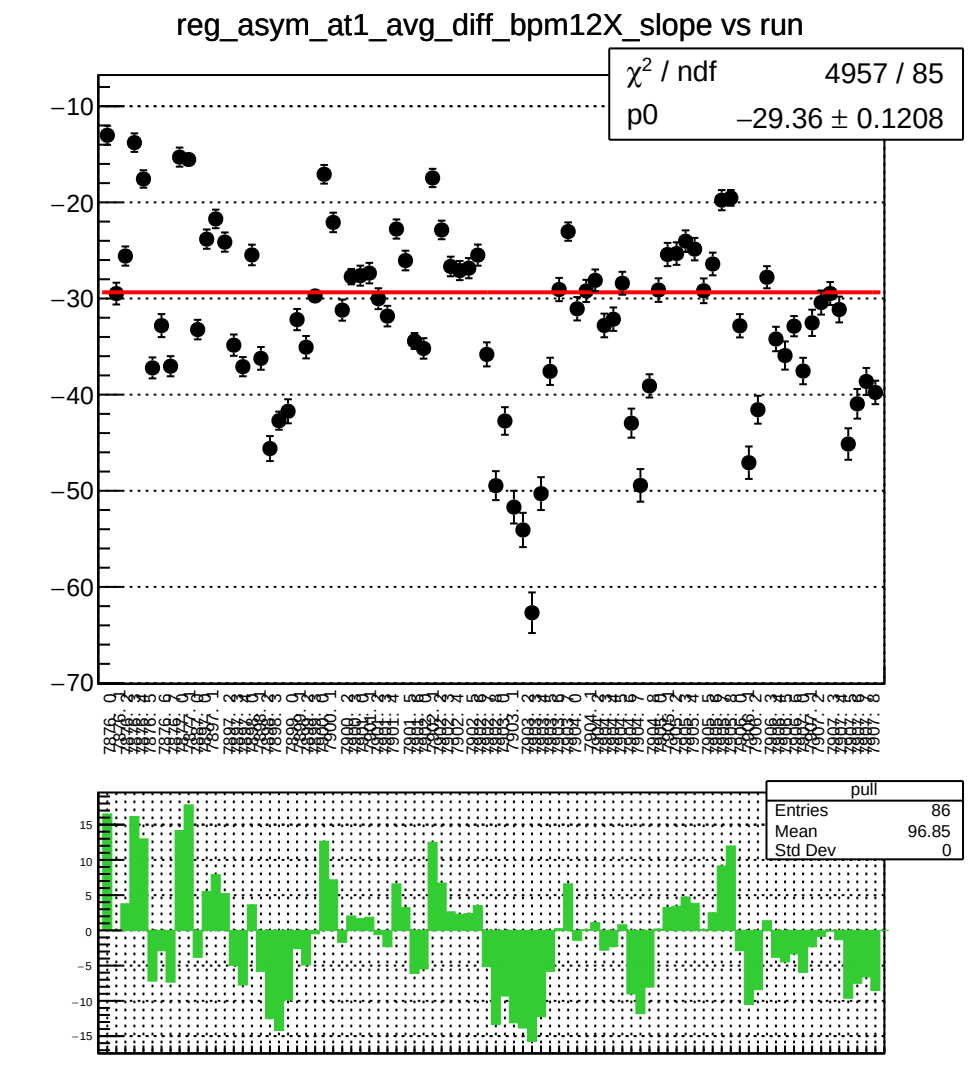

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 110.8 / 85
p0 8.64 ± 2.84
150
100
50
0
−50
−100
pull
Entries 86
Mean 133.3
Std Dev 0
2
1
0
−1
−2

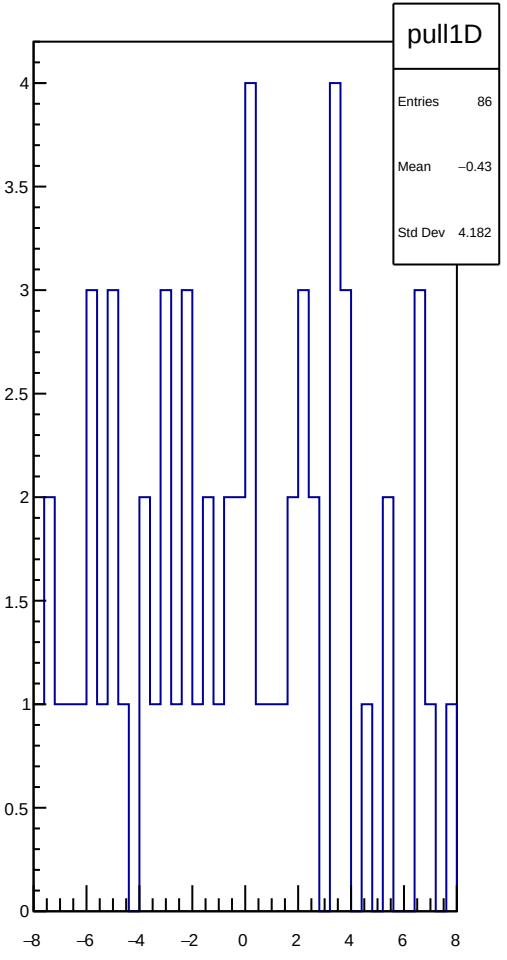

pull1D
Entries 86
Mean 0.1659
Std Dev 1.123
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

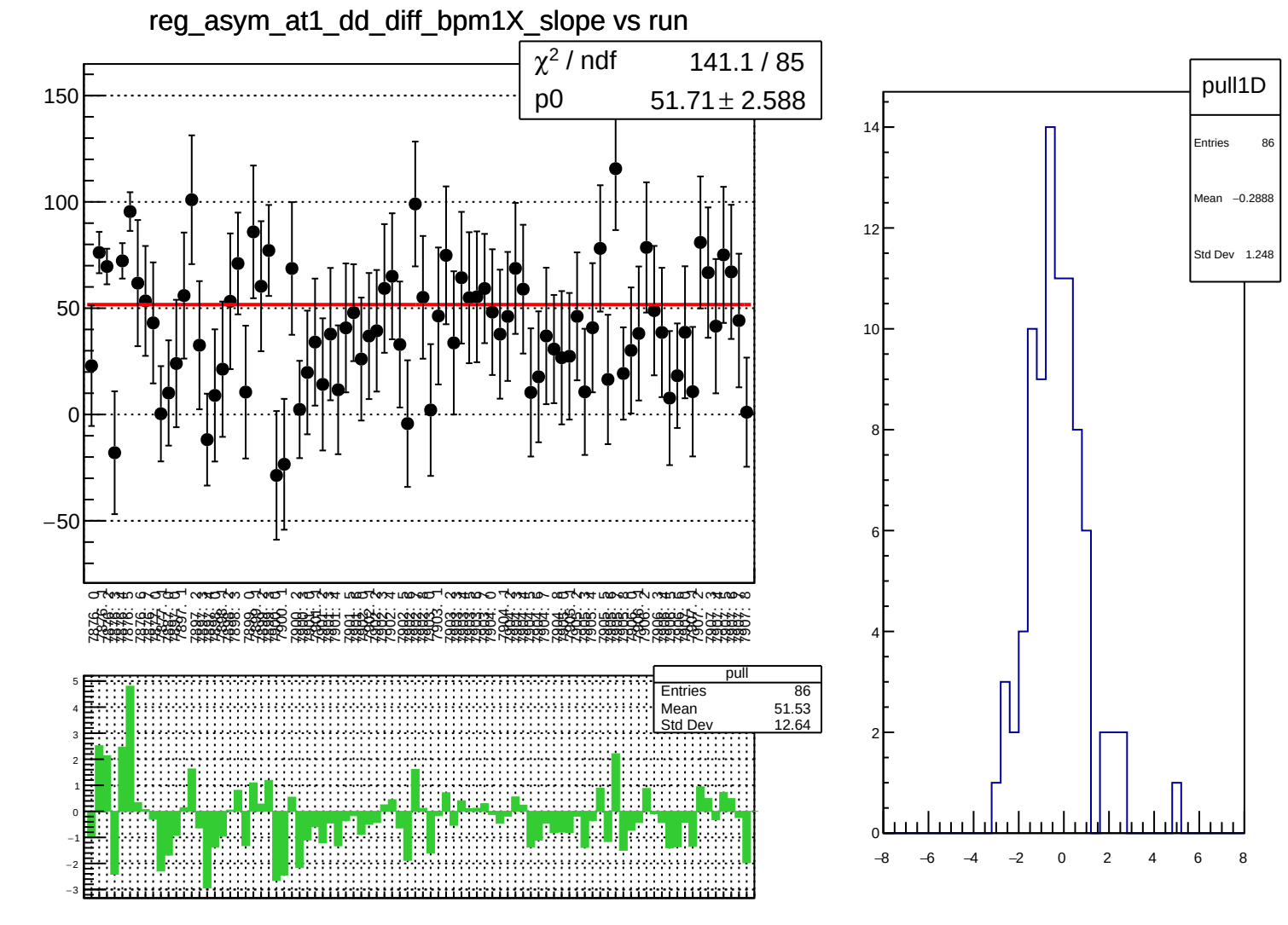

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 269.7 / 85
p0 29.02 ± 2.138
pull
Entries 86
Mean 105
Std Dev 0
pull1D
Entries 86
Mean 0.2545
Std Dev 1.752

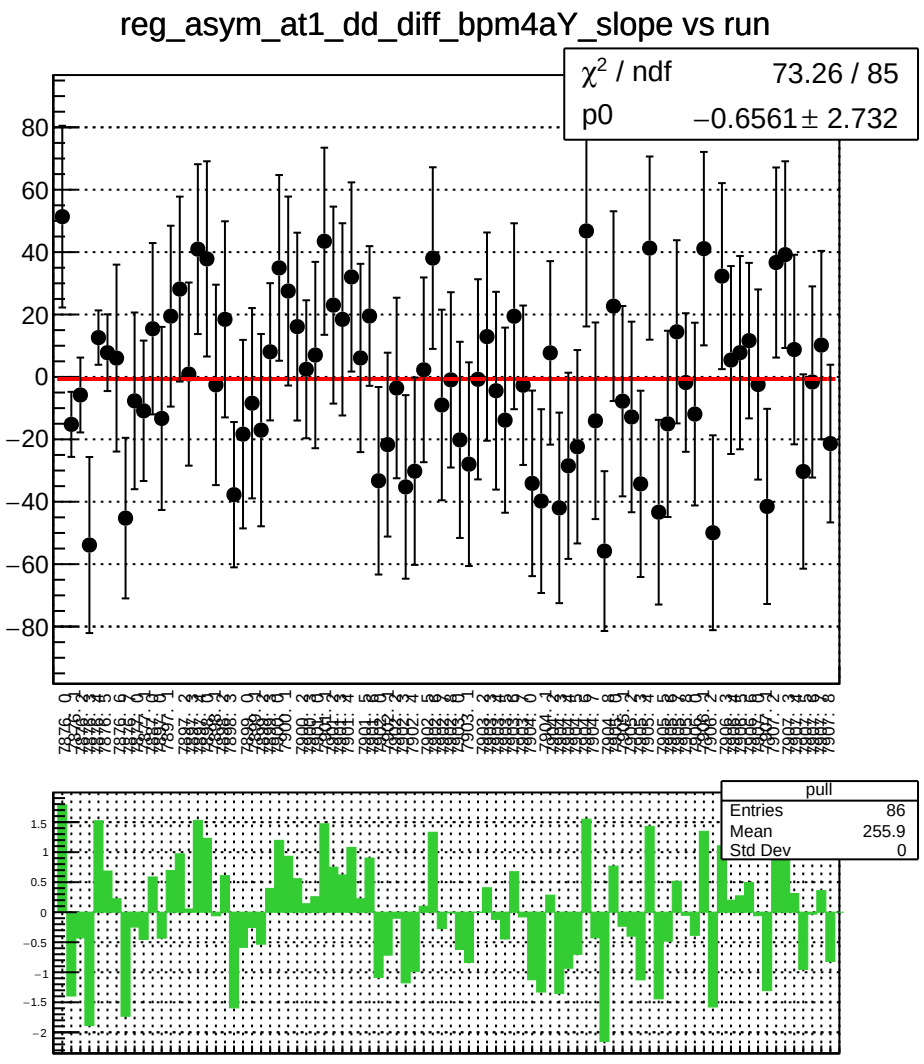

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 83.77 / 85
p0 8.177 ± 3.544
150
100
50
0
−50
−100
pull
Entries 86
Mean 470.4
Std Dev 0
2
1
0
−1
−2

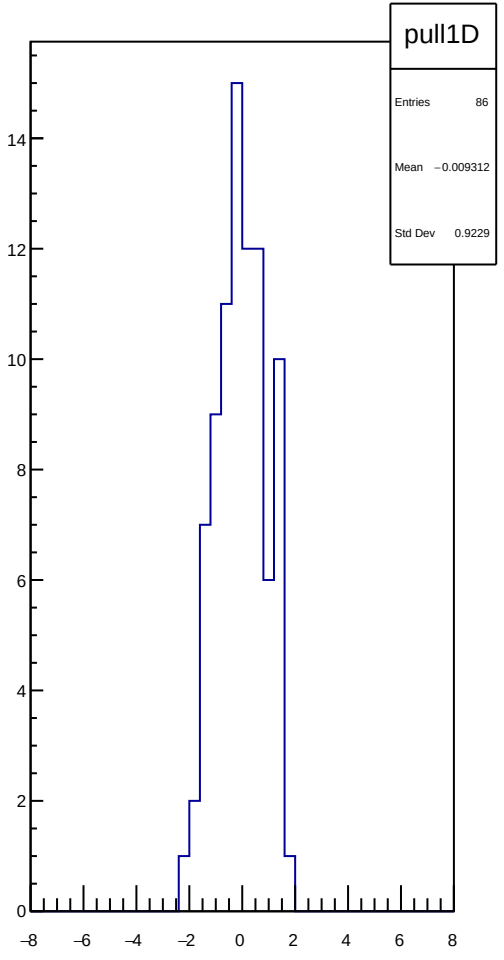

pull1D
Entries 86
Mean −0.01693
Std Dev 0.9868
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

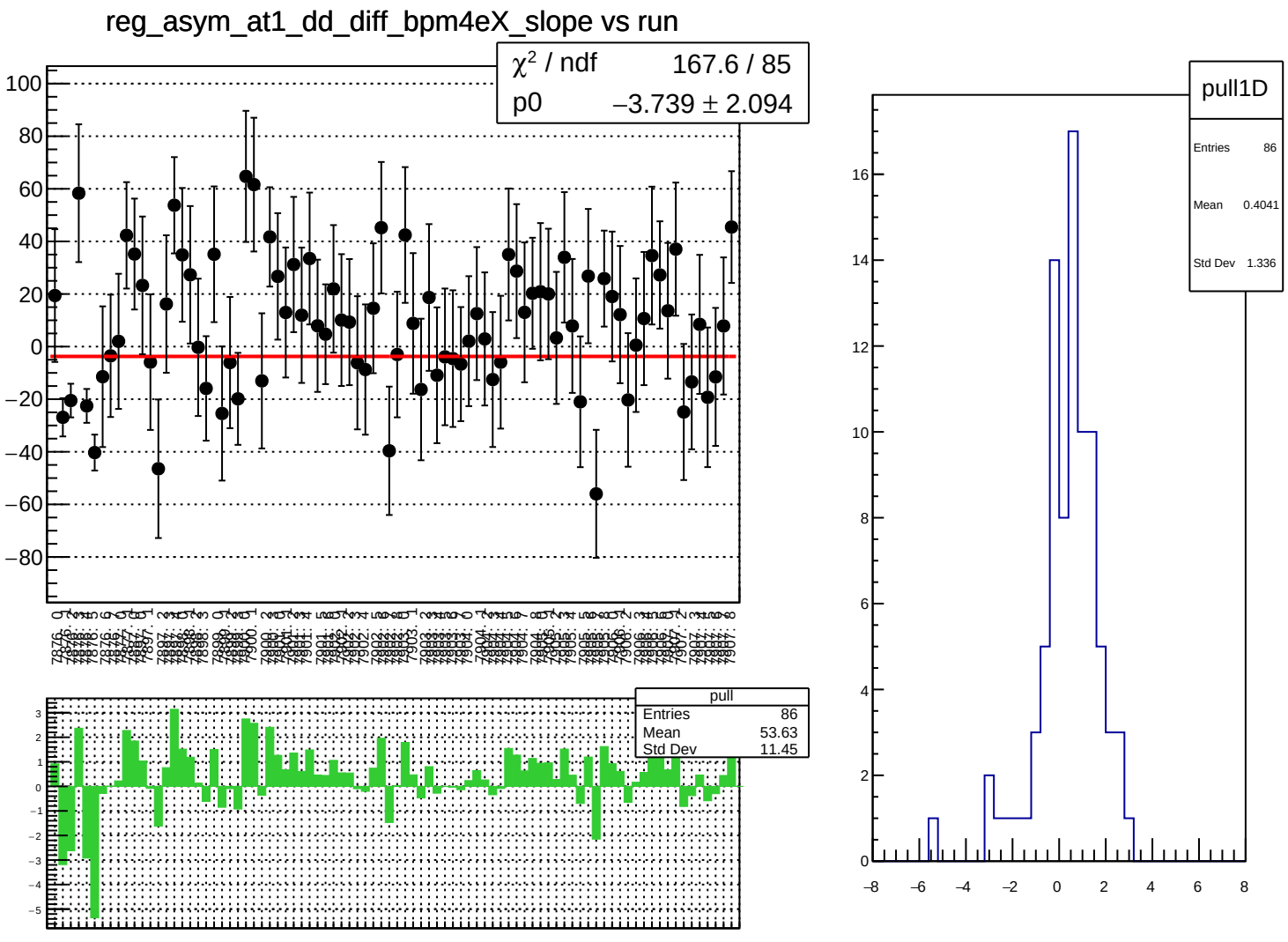

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 4957 / 85
p0 −29.36 ± 0.1208
pull
Entries 86
Mean 96.85
Std Dev 0

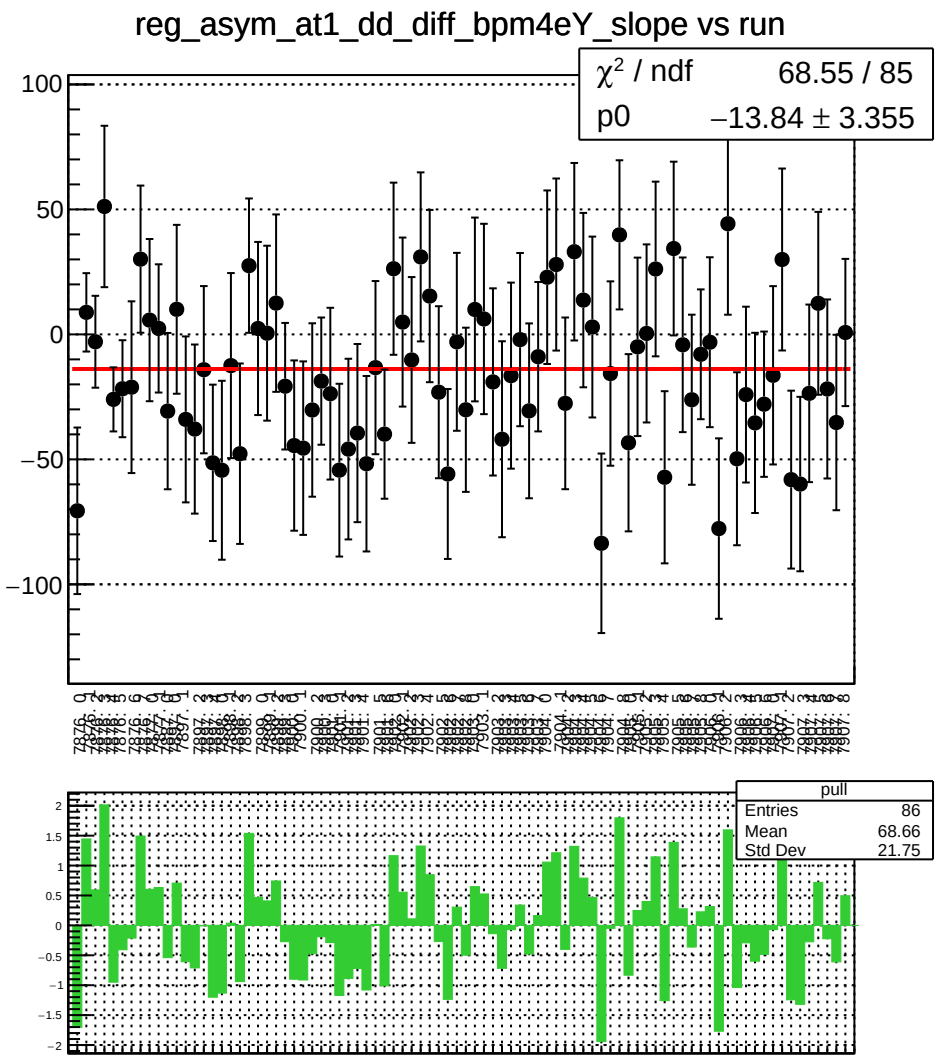

pull1D
Entries 86
Mean −0.43
Std Dev 4.182

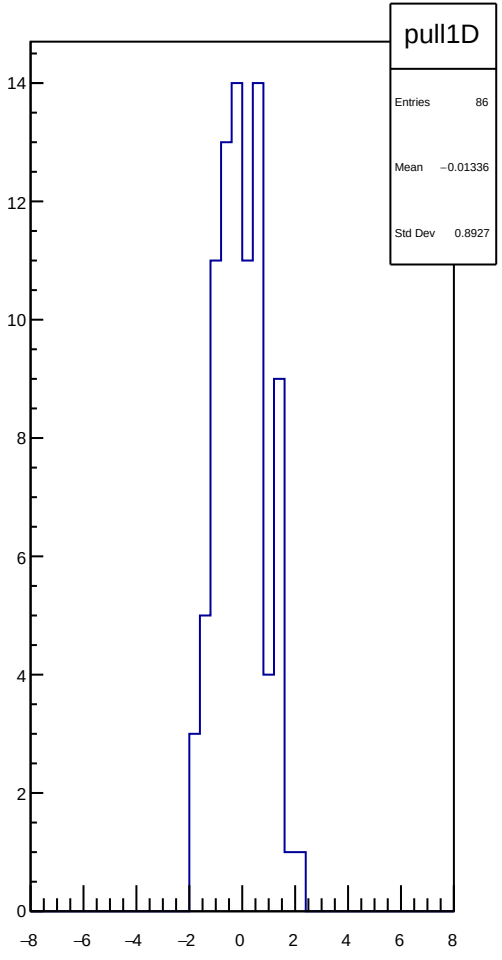

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 141.1 / 85
p0 51.71 ± 2.588
150
100
50
0
−50
pull
Entries 86
Mean 51.53
Std Dev 12.64
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.2888
Std Dev 1.248
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

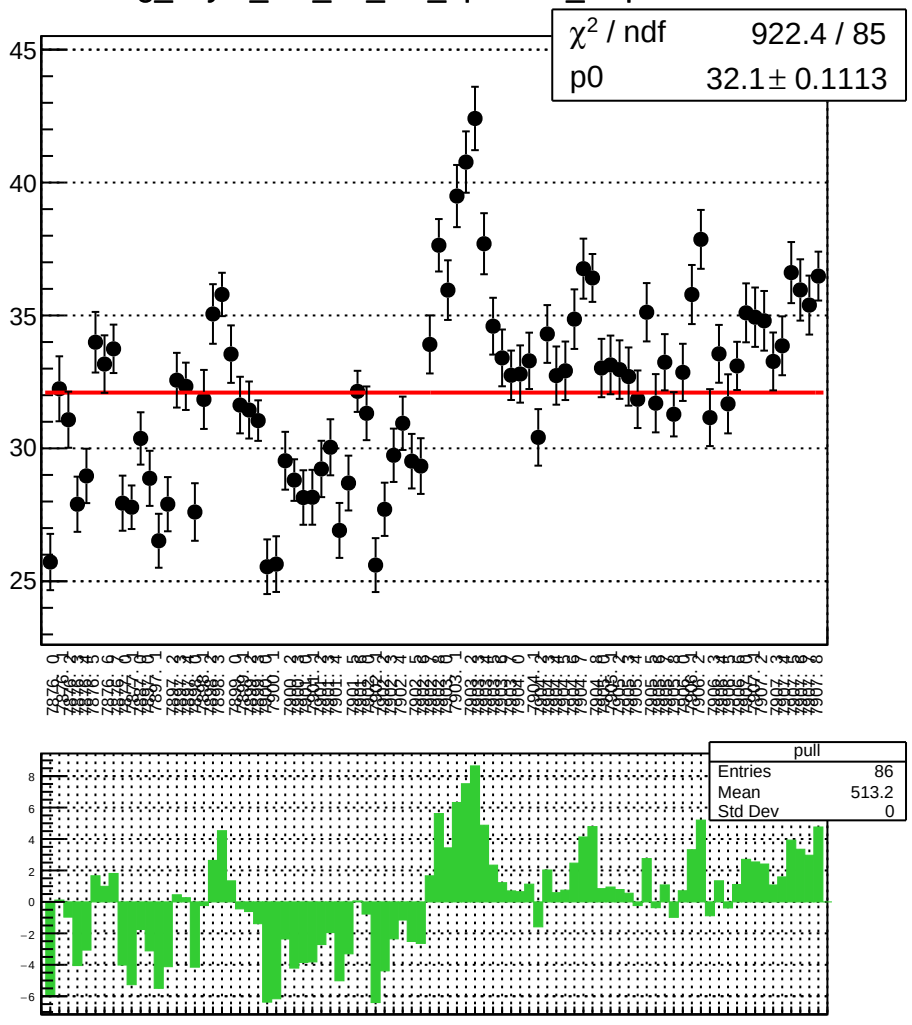

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.26 / 85
p0 −0.6561 ± 2.732
pull
Entries 86
Mean 255.9
Std Dev 0

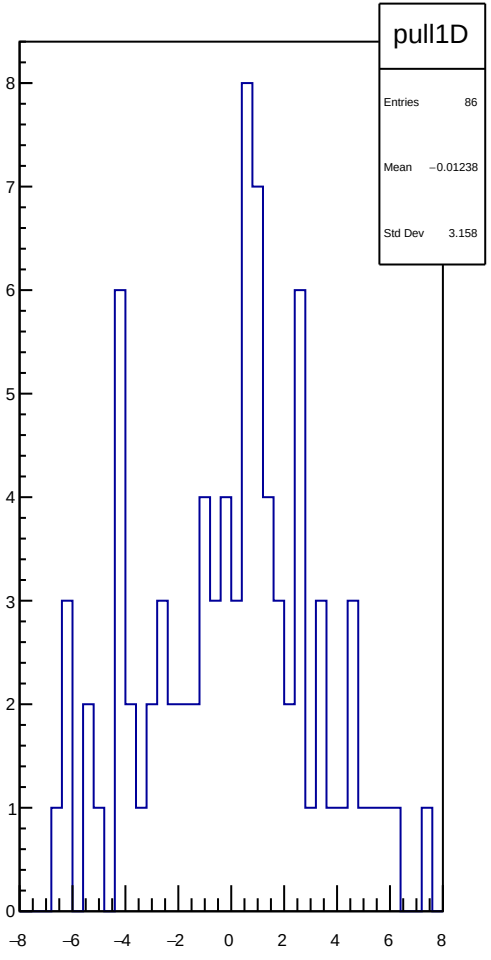

pull1D
Entries 86
Mean −0.009312
Std Dev 0.9229

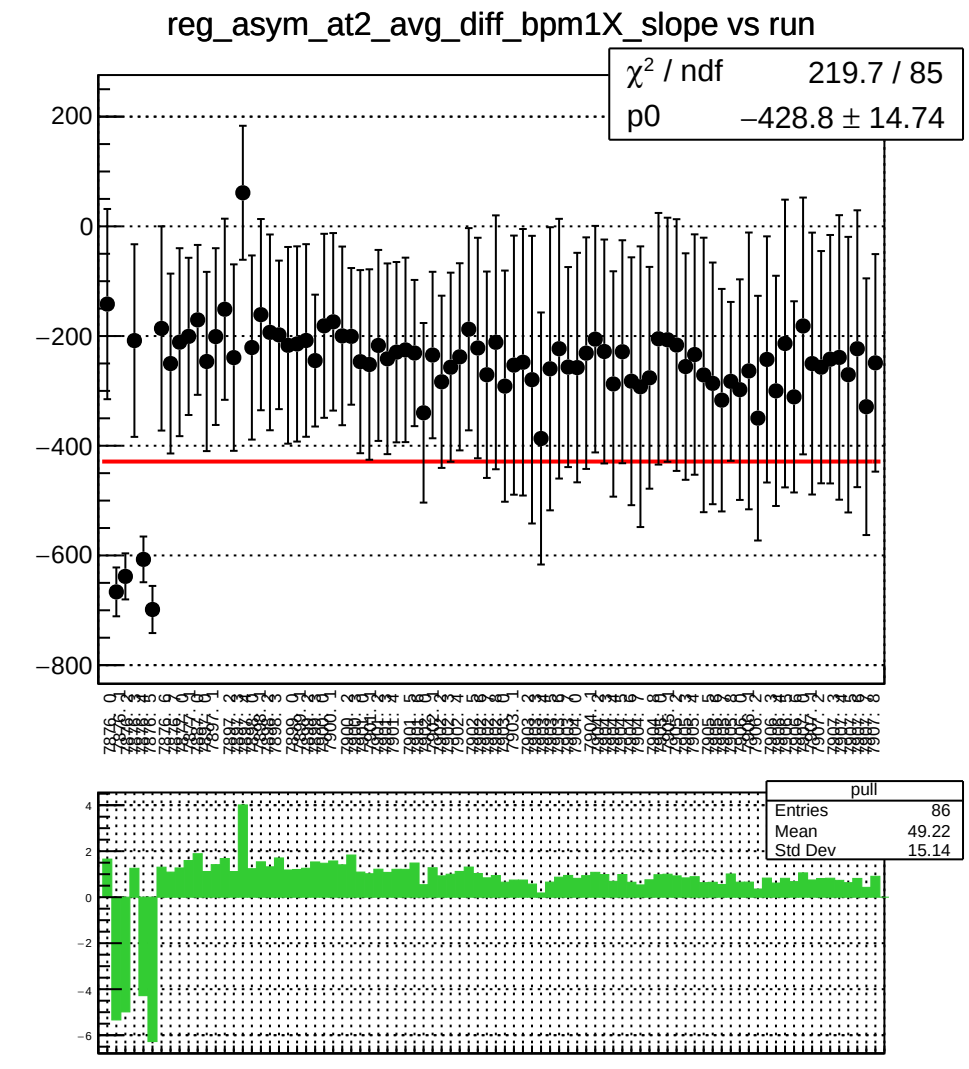

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 167.6 / 85
p0 −3.739 ± 2.094
pull
Entries 86
Mean 53.63
Std Dev 11.45
pull1D
Entries 86
Mean 0.4041
Std Dev 1.336

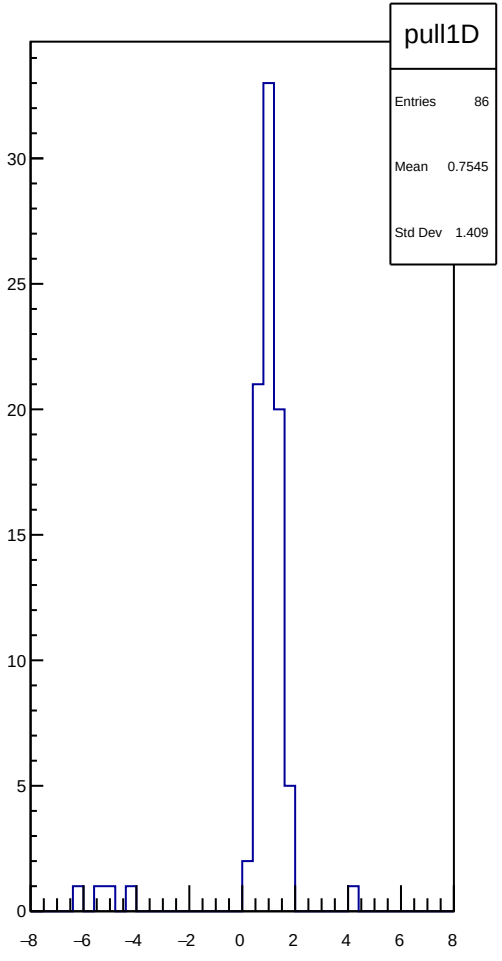

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.55 / 85
p0 −13.84 ± 3.355
pull
Entries 86
Mean 68.66
Std Dev 21.75

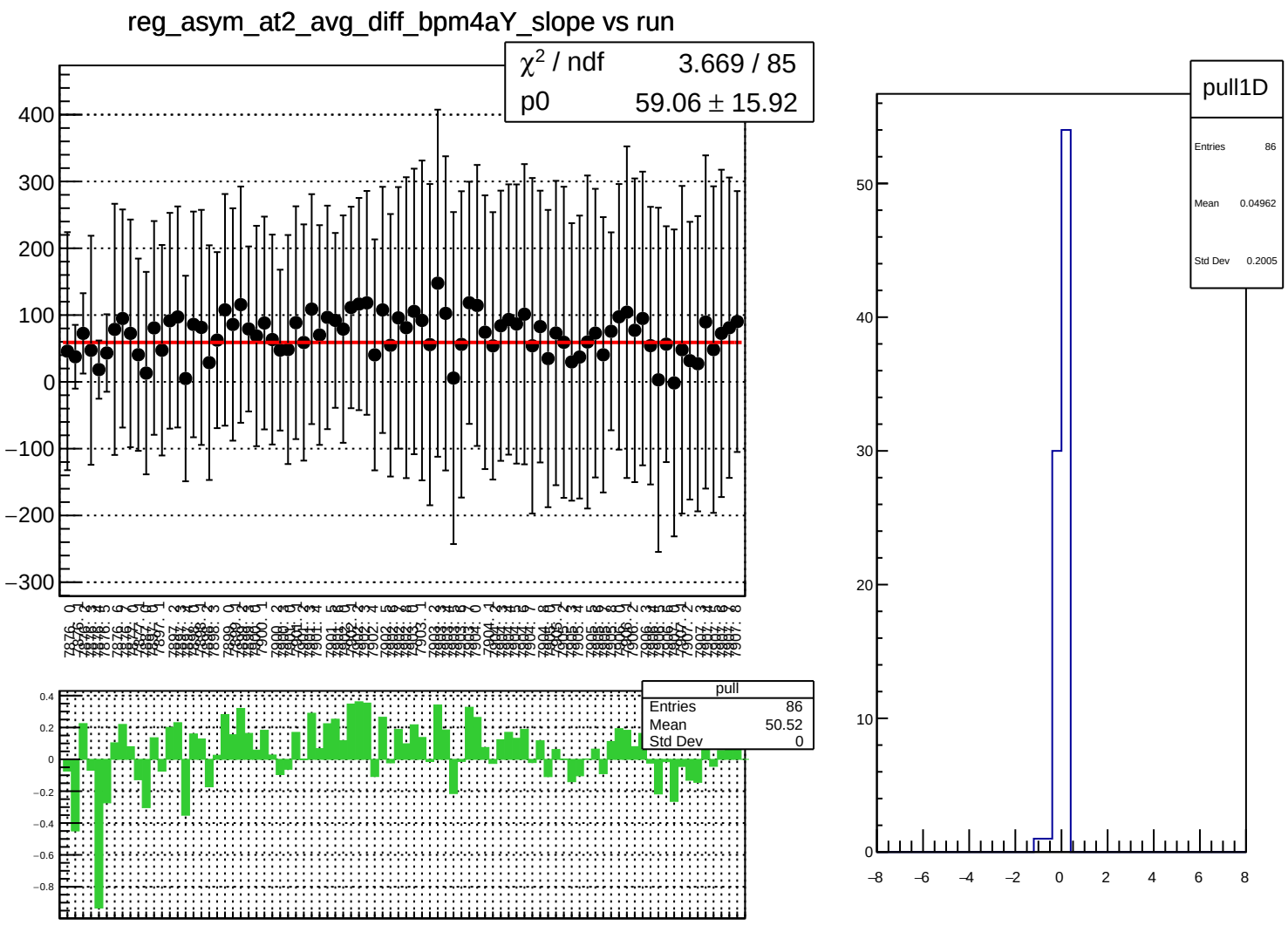

pull1D
Entries 86
Mean −0.01336
Std Dev 0.8927

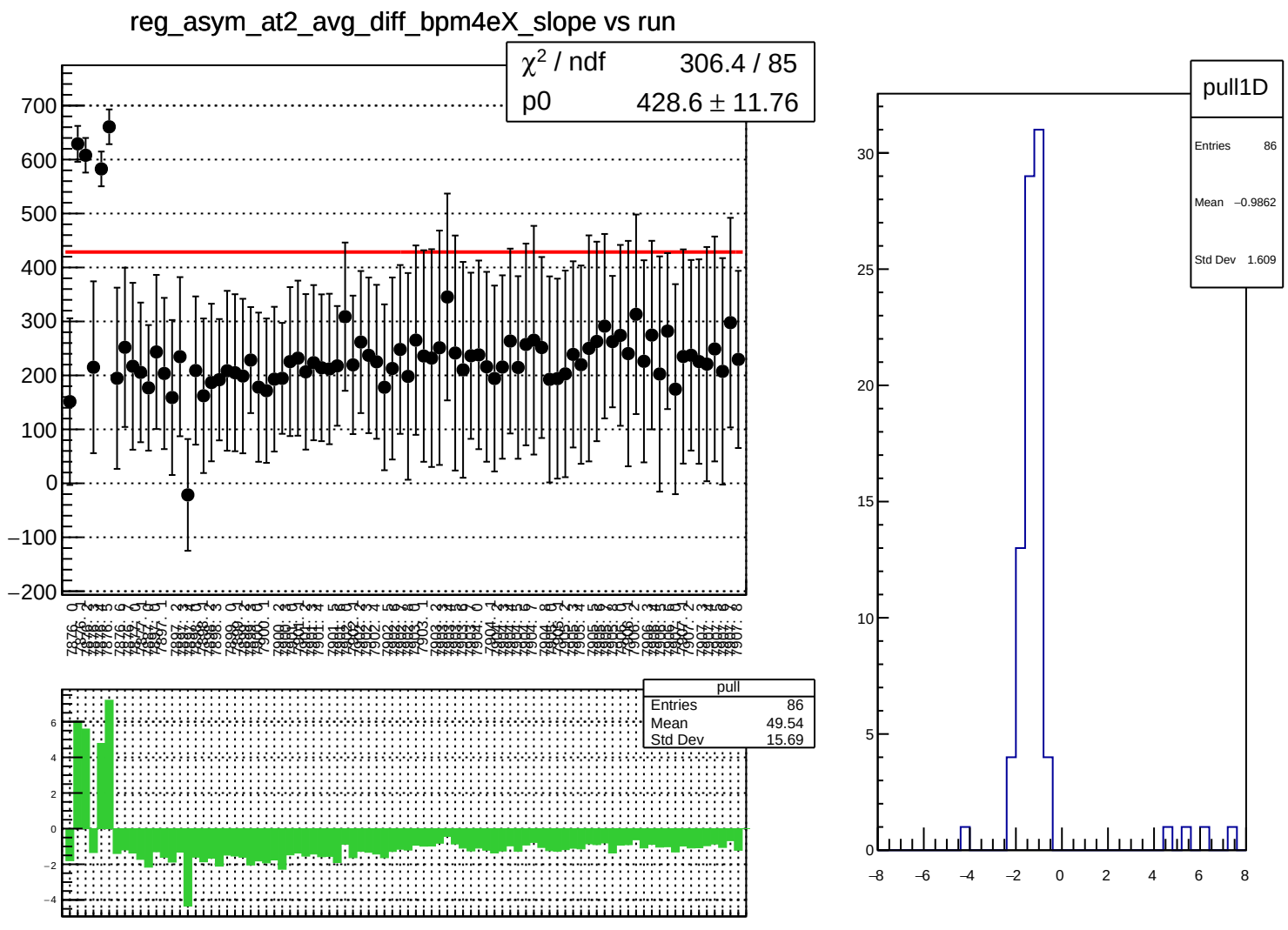

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 922.4 / 85
p0 32.1 ± 0.1113
pull
Entries 86
Mean 513.2
Std Dev 0

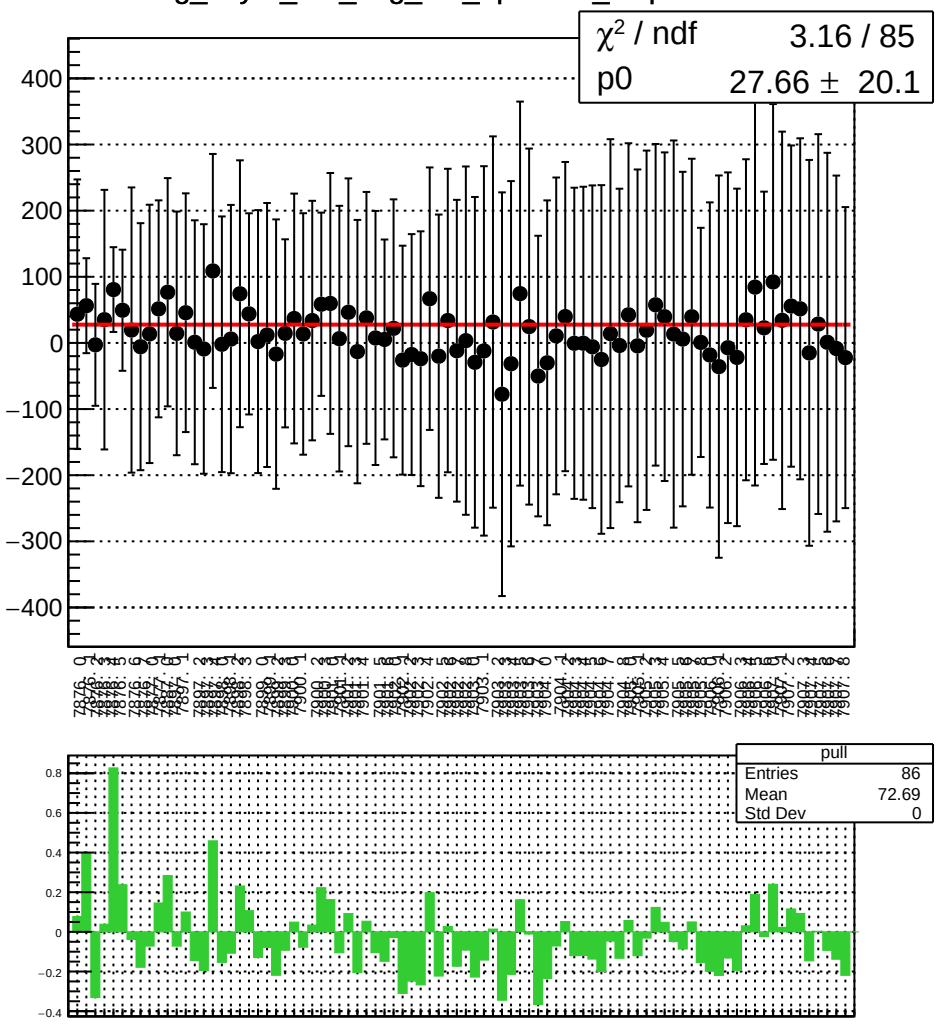

pull1D
Entries 86
Mean −0.01238
Std Dev 3.158

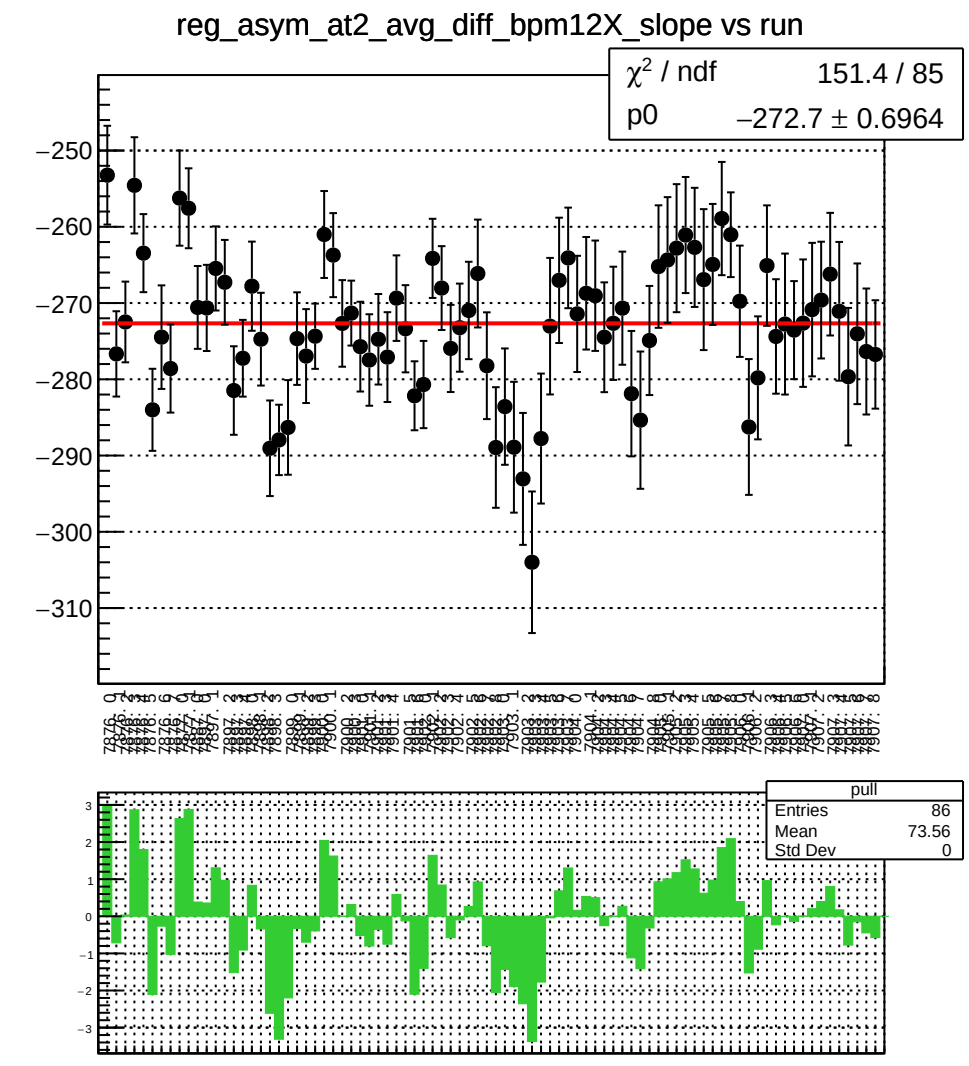

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 219.7 / 85
p0 −428.8 ± 14.74
200
0
−200
−400
−600
−800
pull
Entries 86
Mean 49.22
Std Dev 15.14
4
2
0
−2
−4
−6

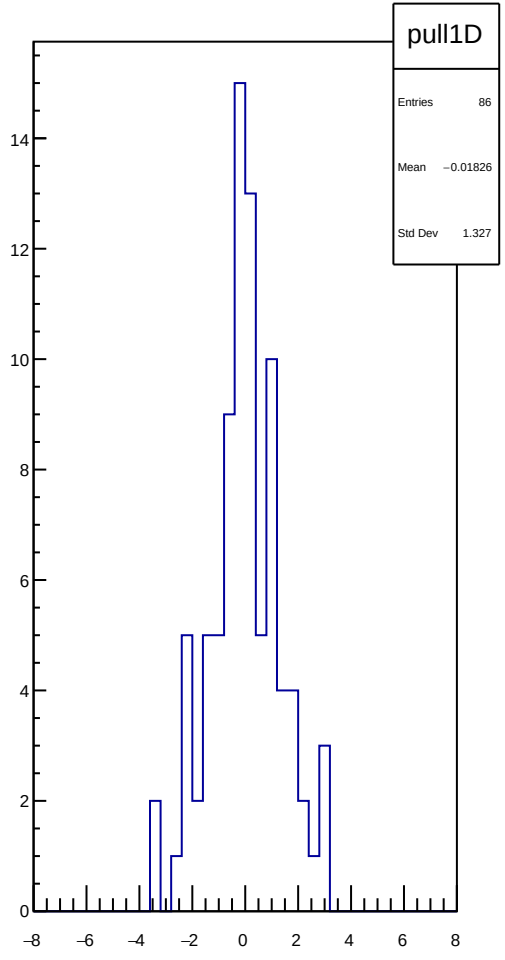

pull1D
Entries 86
Mean 0.7545
Std Dev 1.409
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

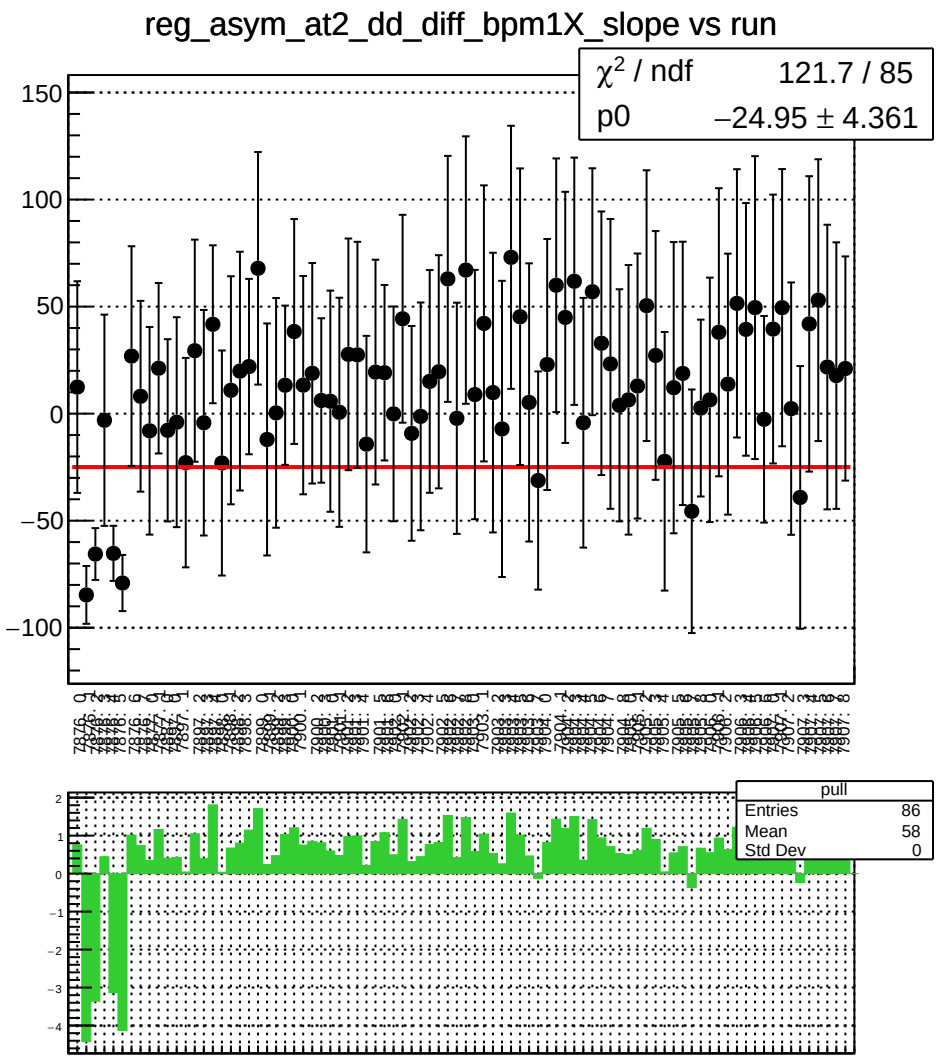

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.669 / 85
p0 59.06 ± 15.92
pull
Entries 86
Mean 50.52
Std Dev 0
pull1D
Entries 86
Mean 0.04962
Std Dev 0.2005

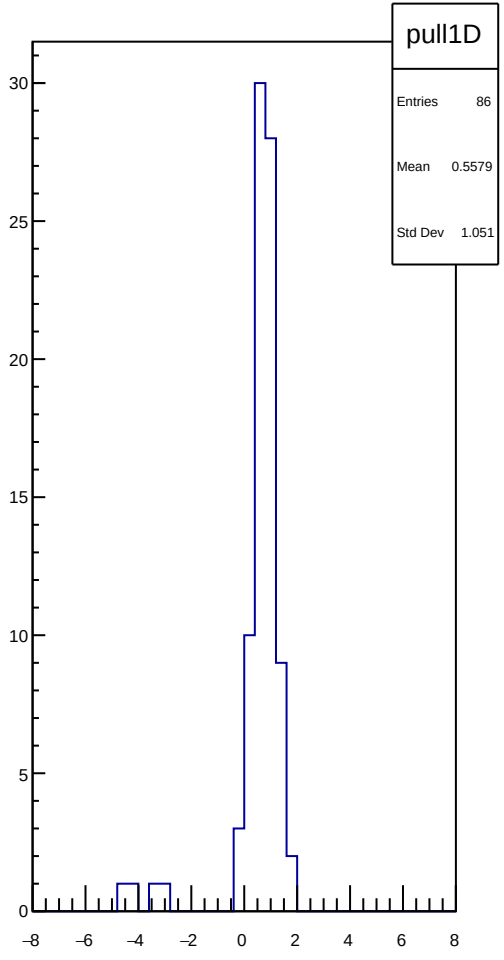

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 306.4 / 85
p0 428.6 ± 11.76
pull
Entries 86
Mean 49.54
Std Dev 15.69
pull1D
Entries 86
Mean −0.9862
Std Dev 1.609

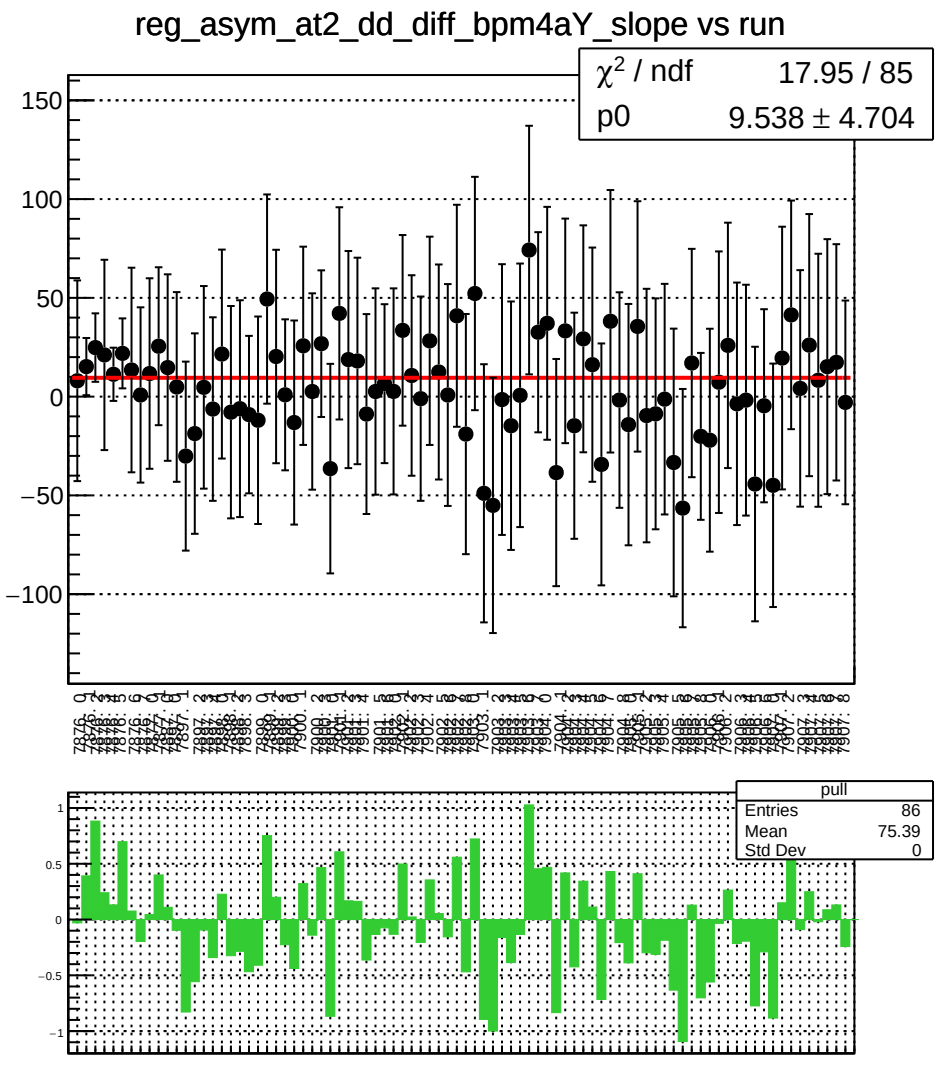

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.16 / 85
p0 27.66 ± 20.1
pull
Entries 86
Mean 72.69
Std Dev 0
pull1D
Entries 86
Mean −0.03516
Std Dev 0.1884

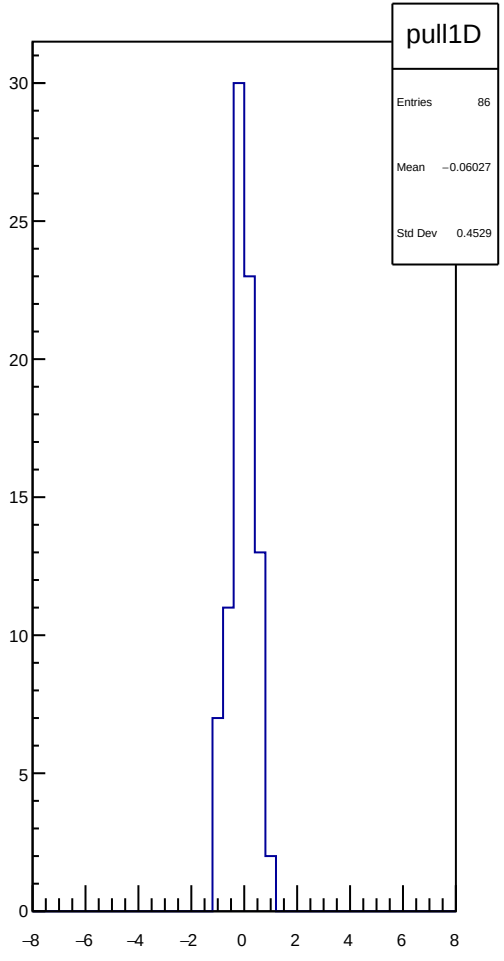

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 151.4 / 85
p0 −272.7 ± 0.6964
−250
−260
−270
−280
−290
−300
−310
pull
Entries 86
Mean 73.56
Std Dev 0
3
2
1
0
−1
−2
−3

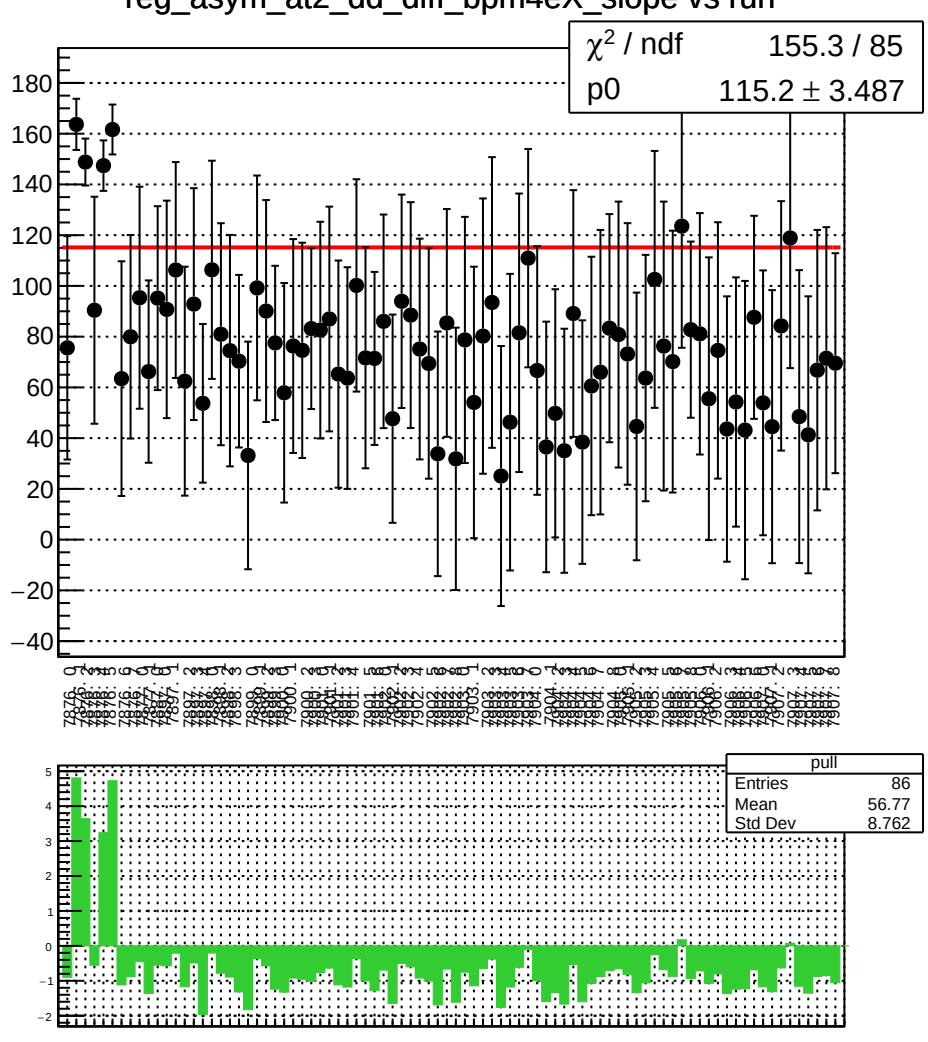

pull1D
Entries 86
Mean −0.01826
Std Dev 1.327
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

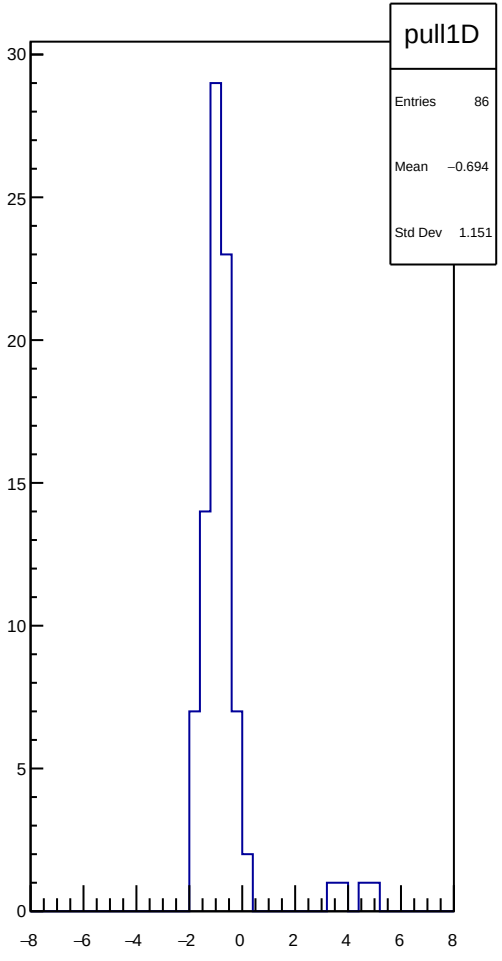

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 121.7 / 85
p0 −24.95 ± 4.361
150
100
50
0
−50
−100
pull
Entries 86
Mean 58
Std Dev 0
2
1
0
−1
−2
−3
−4

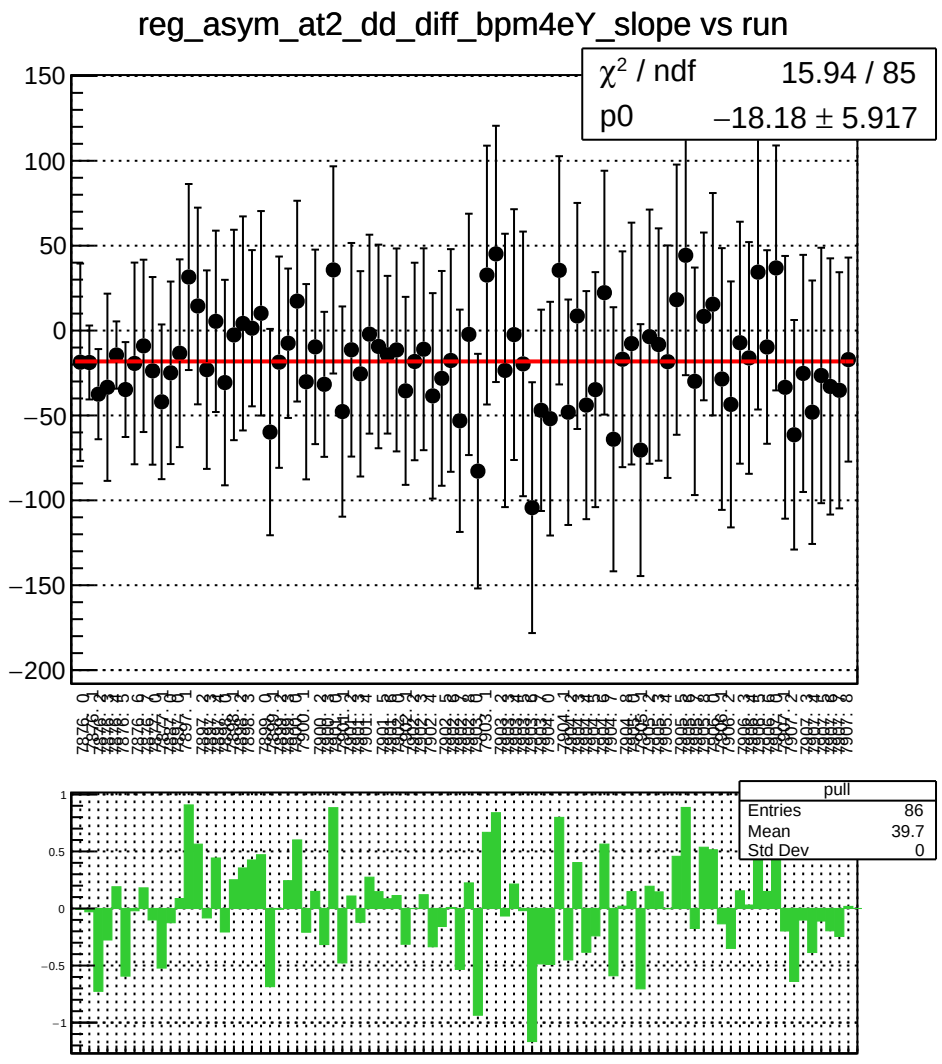

pull1D
Entries 86
Mean 0.5579
Std Dev 1.051
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

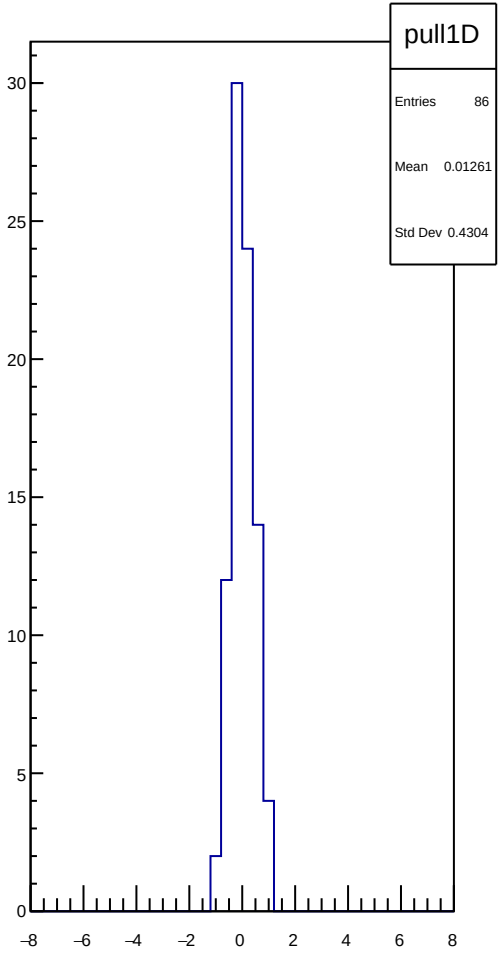

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.95 / 85
p0 9.538 ± 4.704
150
100
50
0
−50
−100
pull
Entries 86
Mean 75.39
Std Dev 0
1
0.5
0
−0.5
−1

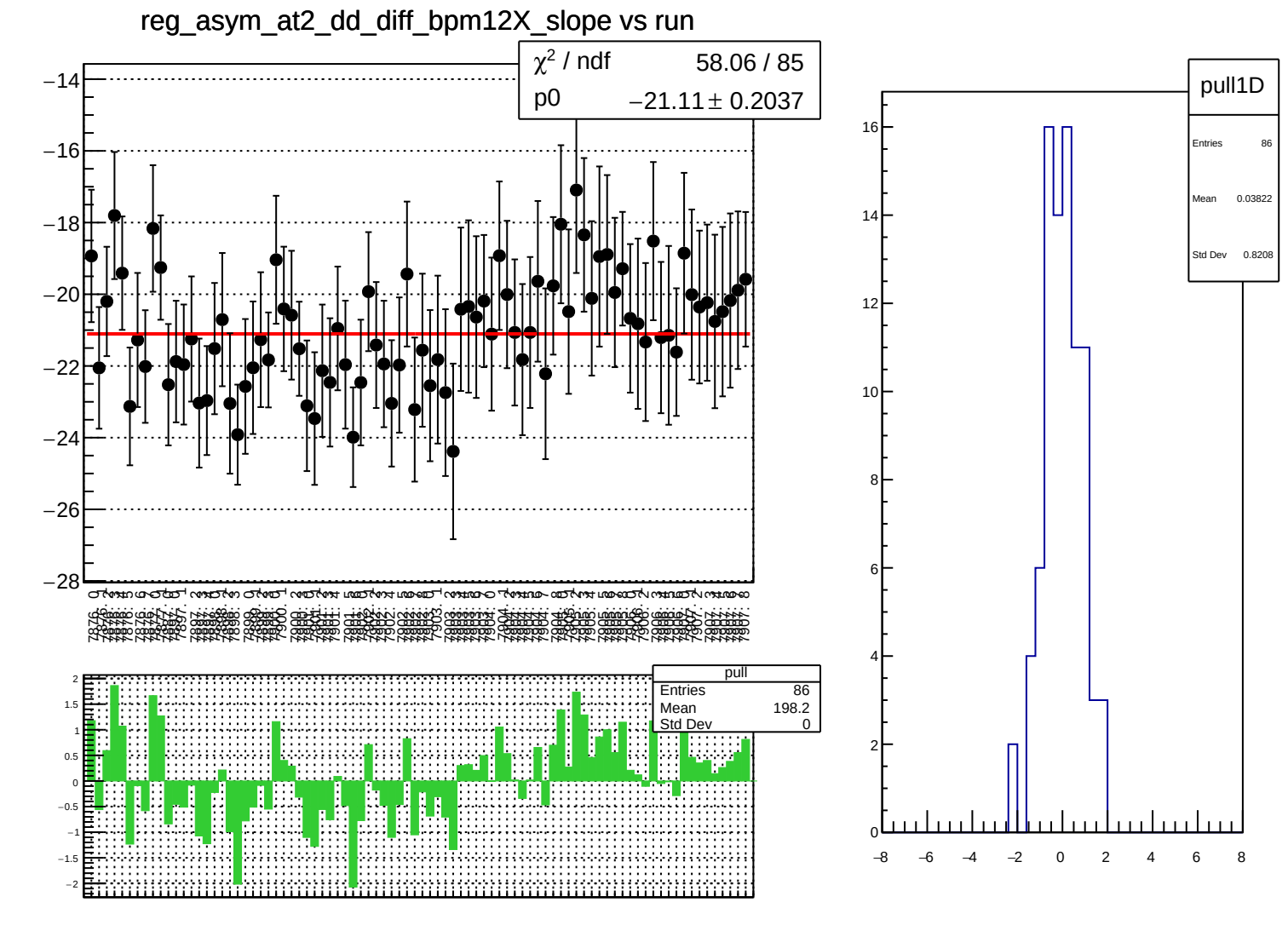

pull1D
Entries 86
Mean −0.06027
Std Dev 0.4529
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

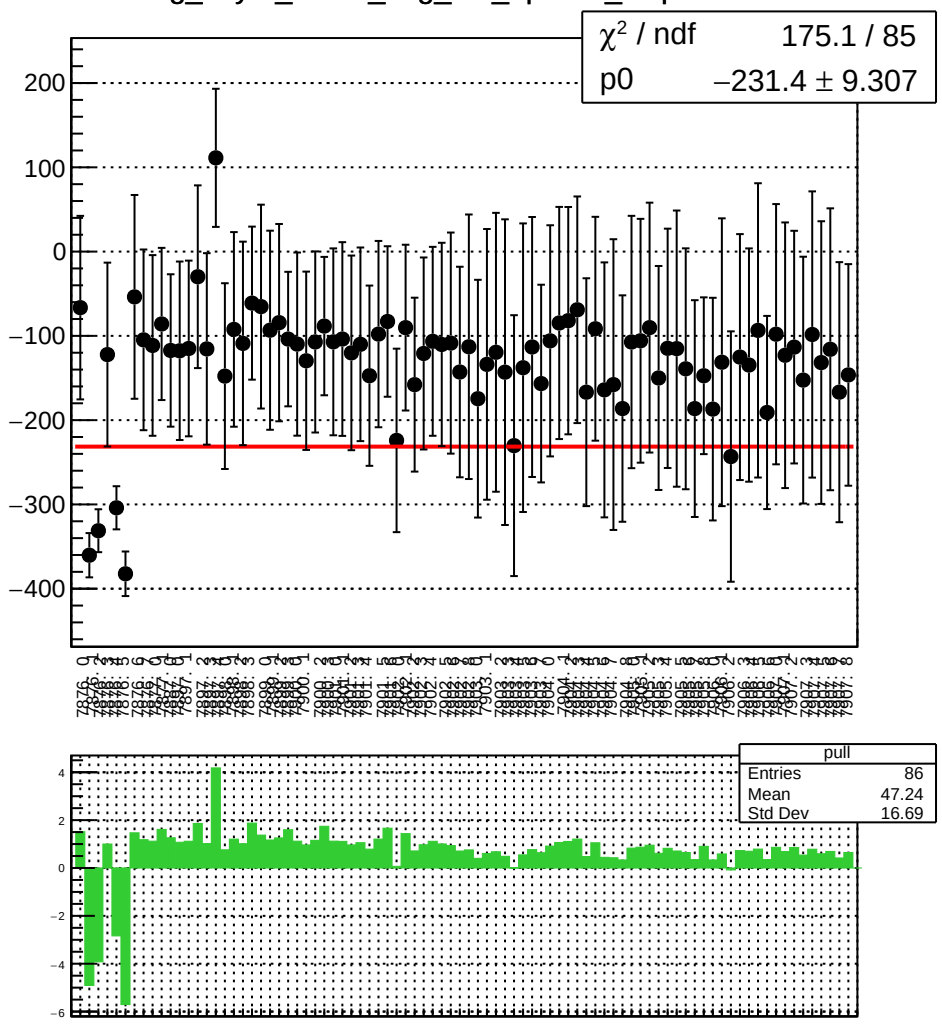

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 155.3 / 85
p0 115.2 ± 3.487
pull
Entries 86
Mean 56.77
Std Dev 8.762

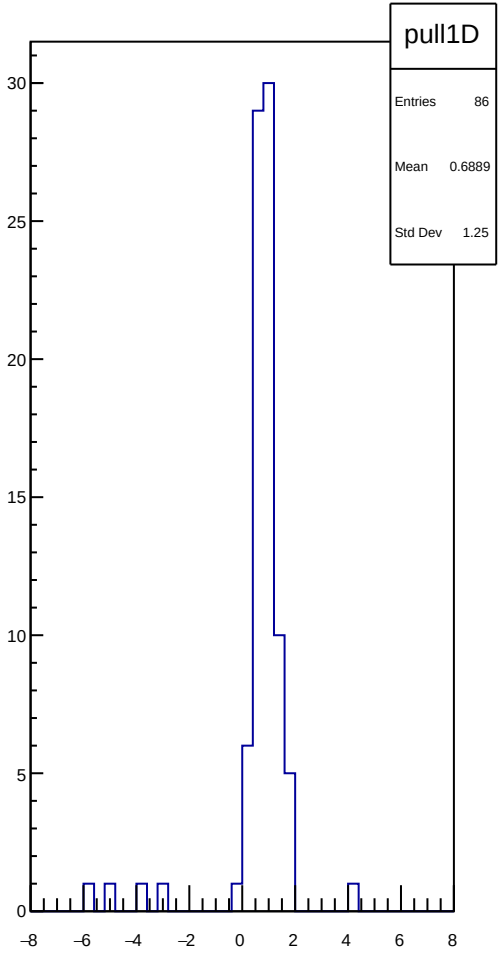

pull1D
Entries 86
Mean −0.694
Std Dev 1.151

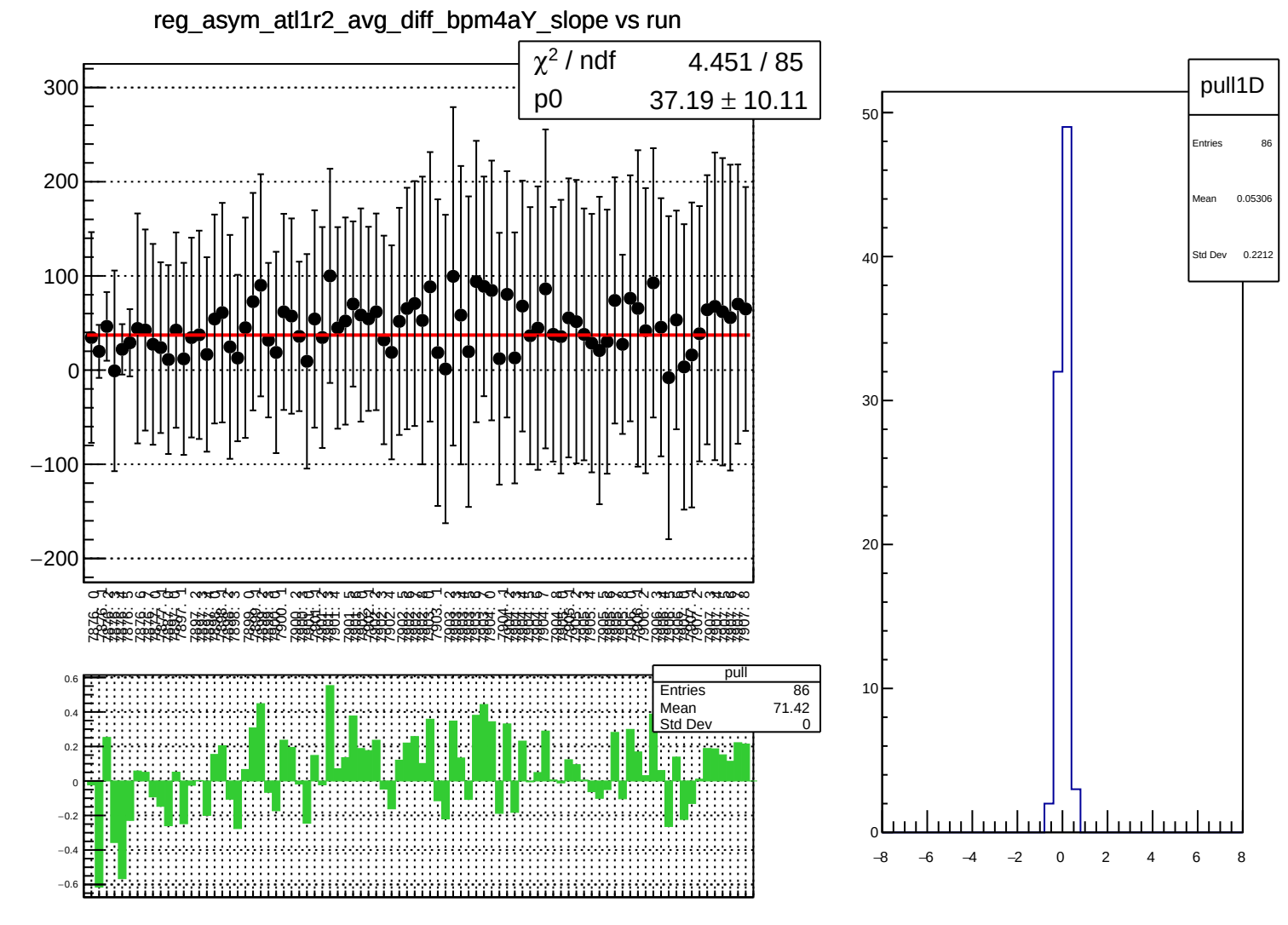

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.94 / 85
p0 −18.18 ± 5.917
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 39.7
Std Dev 0
1
0.5
0
−0.5
−1

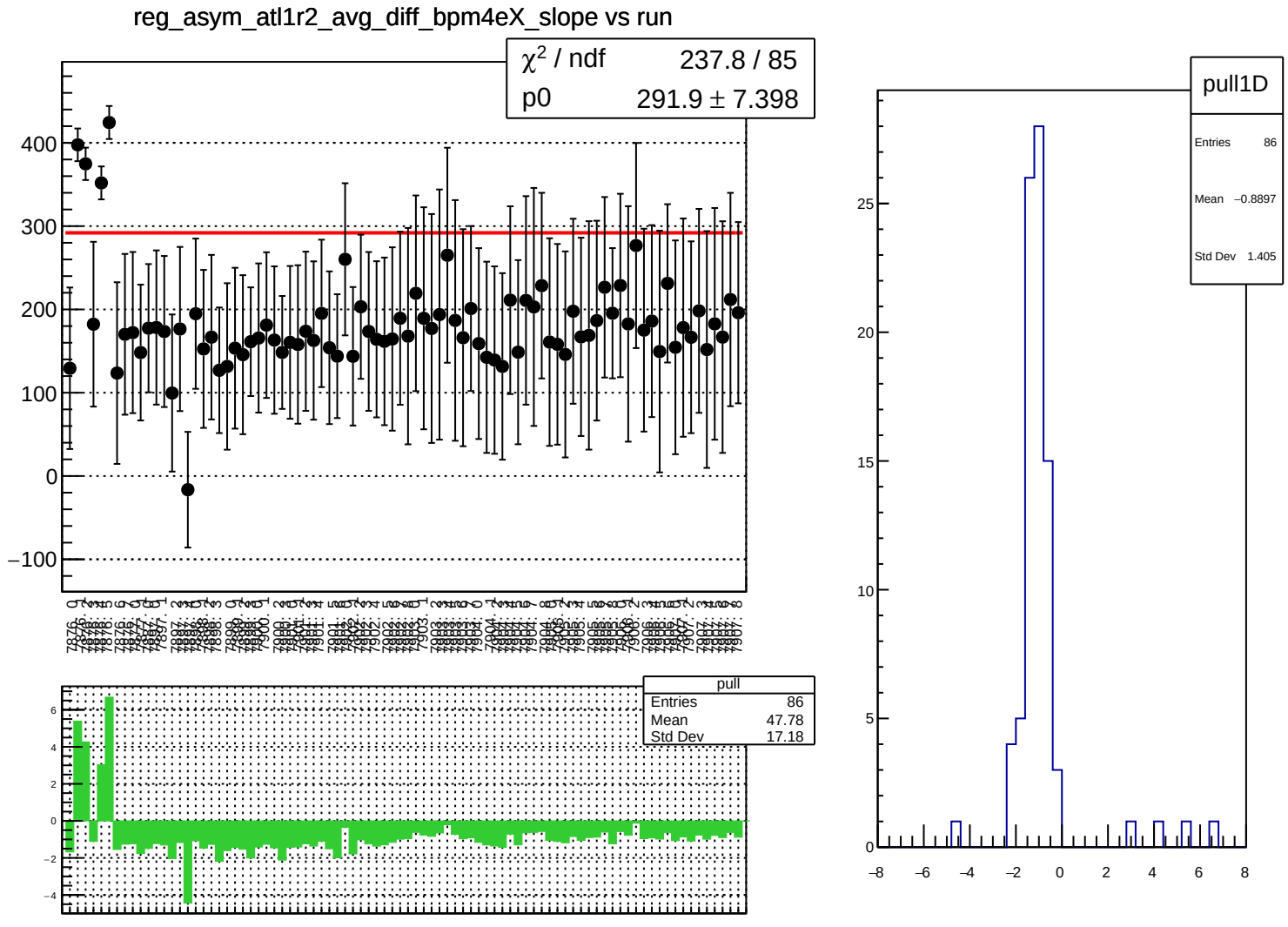

pull1D
Entries 86
Mean 0.01261
Std Dev 0.4304
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

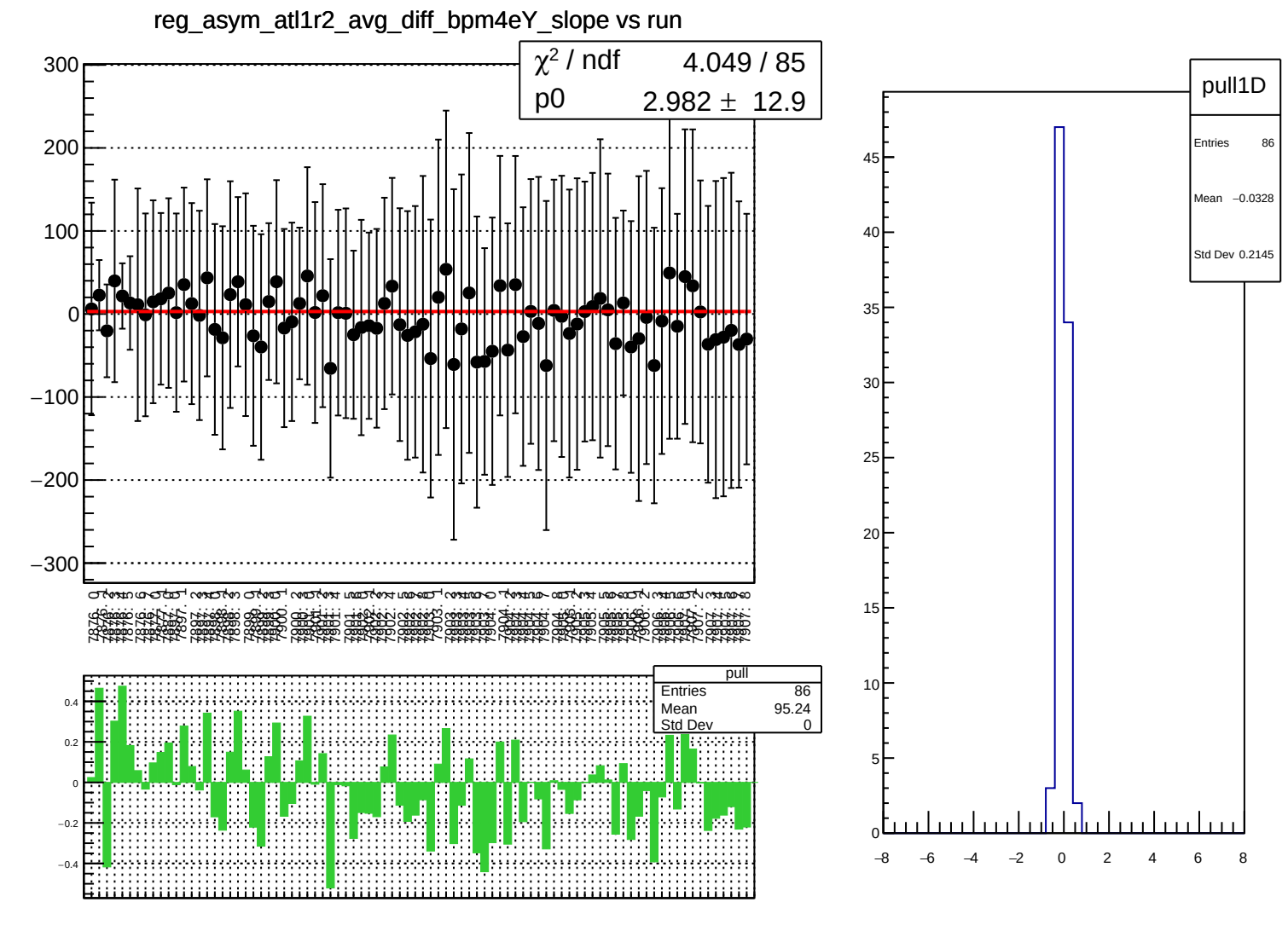

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 58.06 / 85
p0 −21.11 ± 0.2037
pull
Entries 86
Mean 198.2
Std Dev 0
pull1D
Entries 86
Mean 0.03822
Std Dev 0.8208

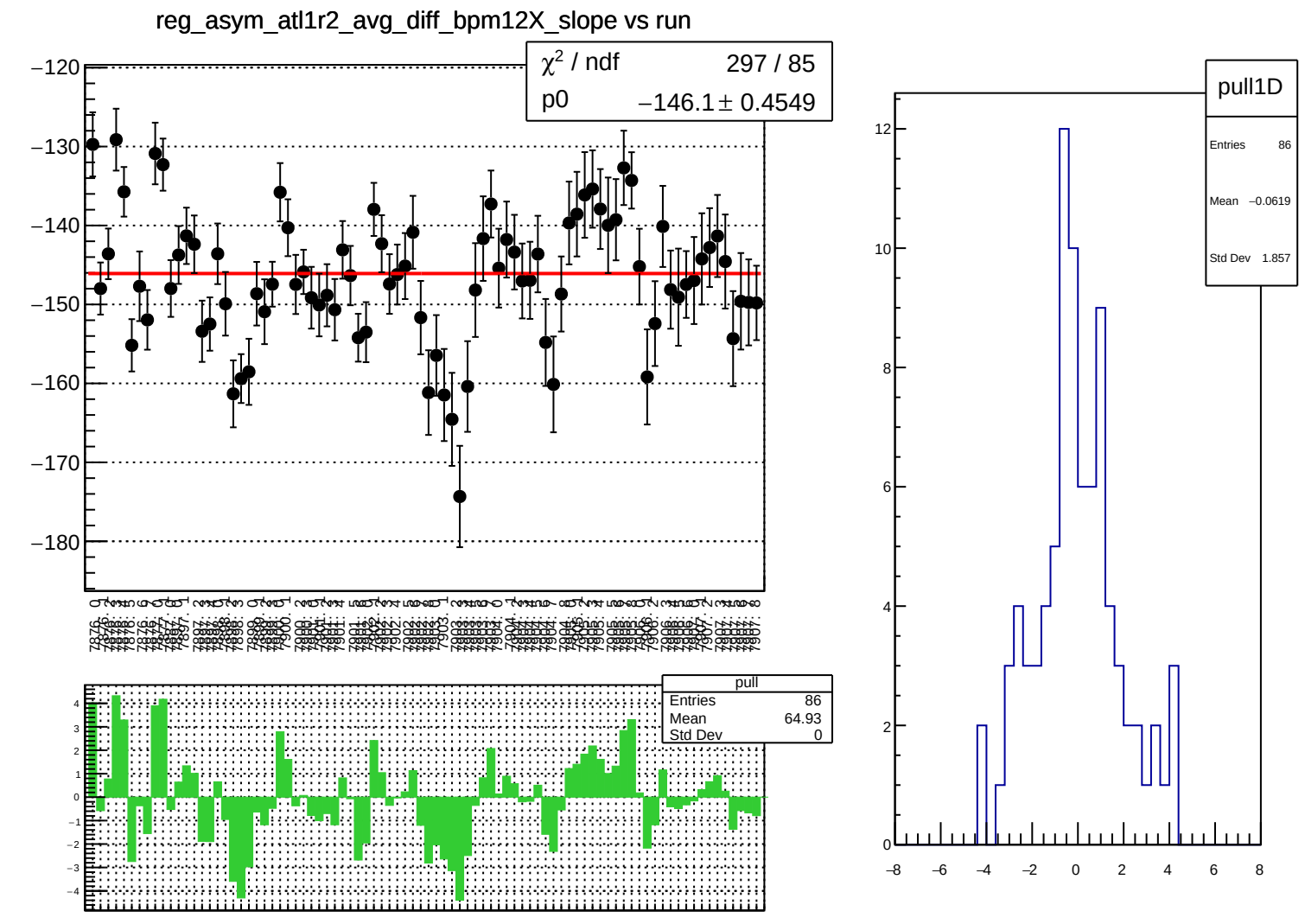

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 175.1 / 85
p0 −231.4 ± 9.307
pull
Entries 86
Mean 47.24
Std Dev 16.69

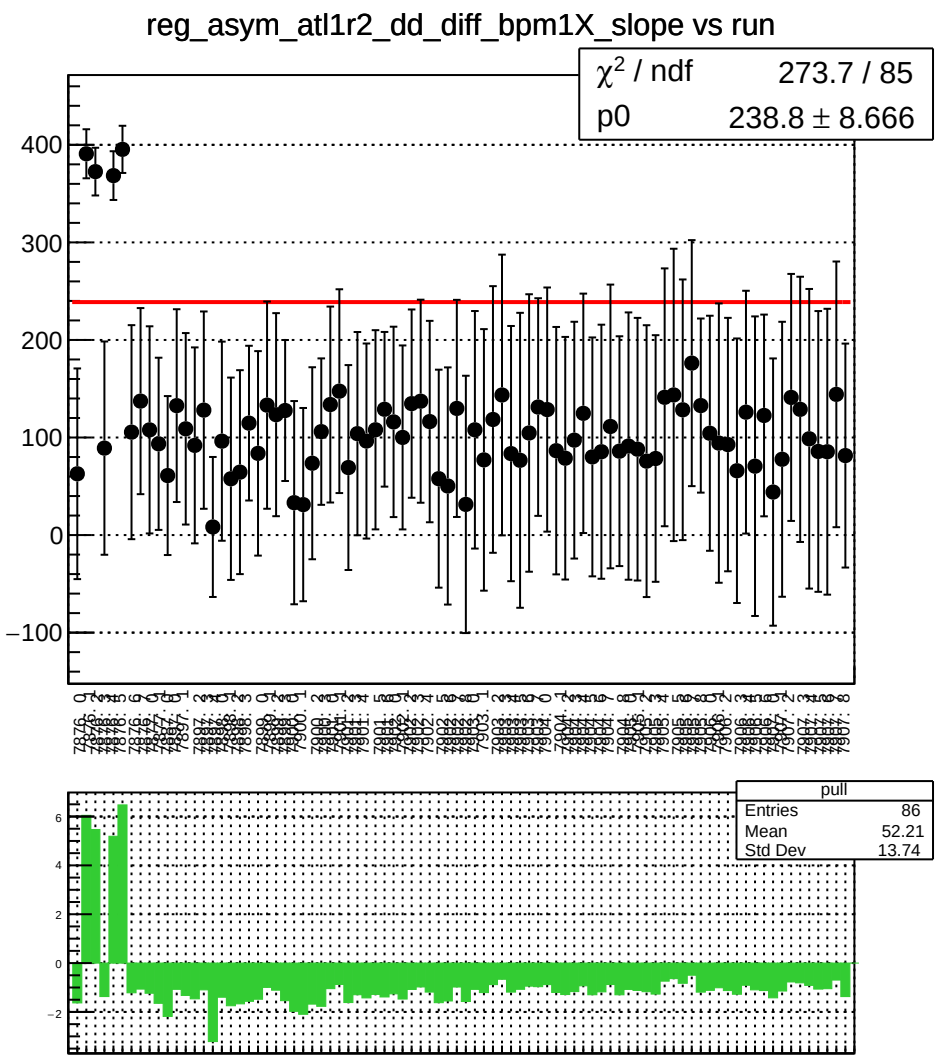

pull1D
Entries 86
Mean 0.6889
Std Dev 1.25

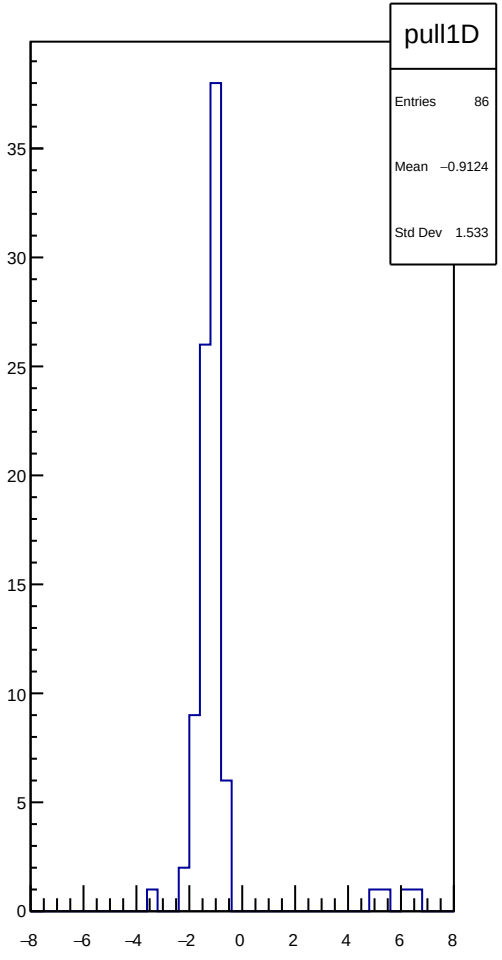

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.451 / 85
p0 37.19 ± 10.11
pull
Entries 86
Mean 71.42
Std Dev 0
pull1D
Entries 86
Mean 0.05306
Std Dev 0.2212

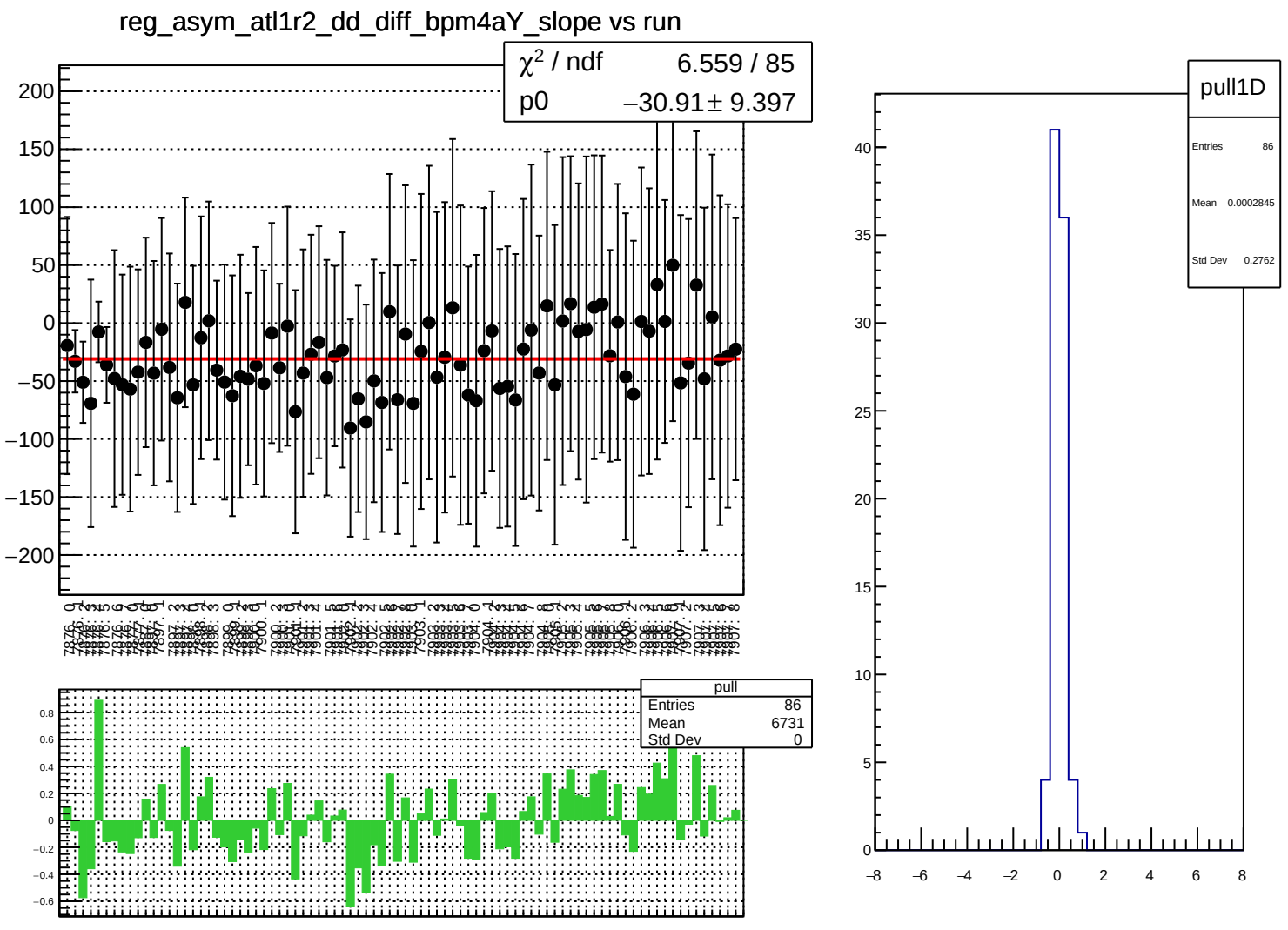

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 237.8 / 85
p0 291.9 ± 7.398
400
300
200
100
0
−100
pull
Entries 86
Mean 47.78
Std Dev 17.18
6
4
2
0
−2
−4
pull1D
Entries 86
Mean −0.8897
Std Dev 1.405
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

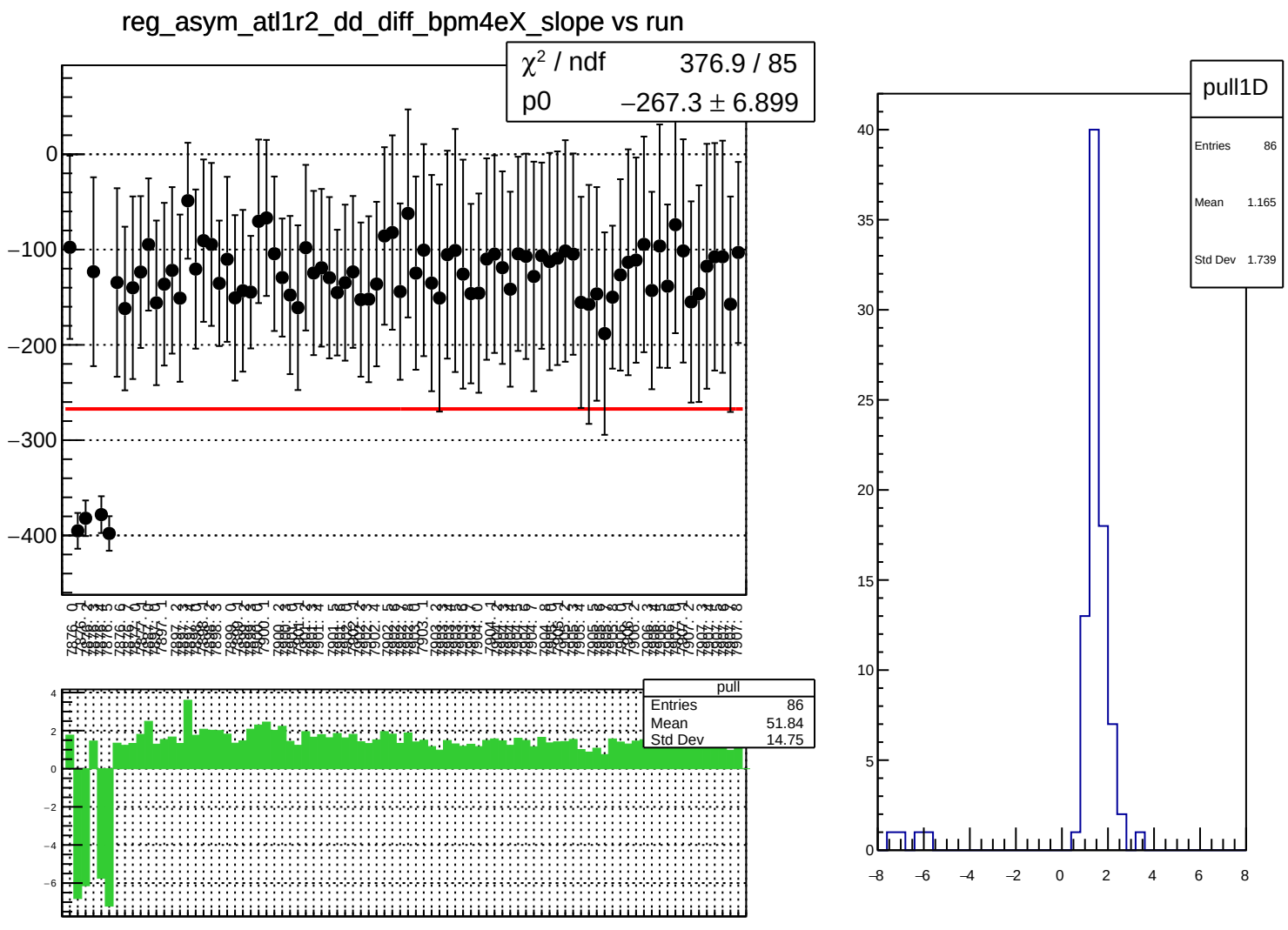

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.049 / 85
p0 2.982 ± 12.9
pull
Entries 86
Mean 95.24
Std Dev 0
pull1D
Entries 86
Mean −0.0328
Std Dev 0.2145

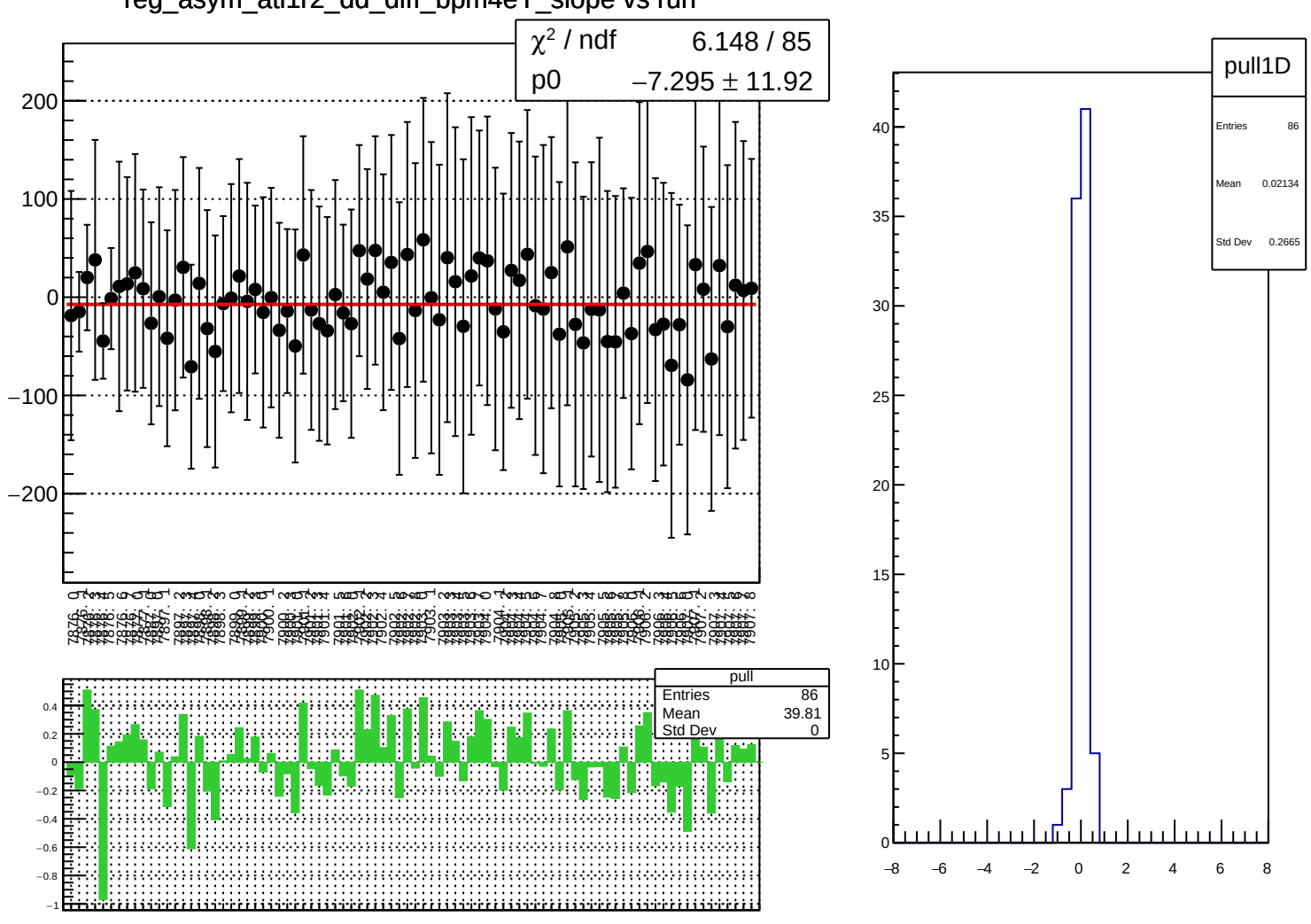

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 297 / 85
p0 −146.1 ± 0.4549
−120
−130
−140
−150
−160
−170
−180
pull
Entries 86
Mean 64.93
Std Dev 0
pull1D
Entries 86
Mean −0.0619
Std Dev 1.857

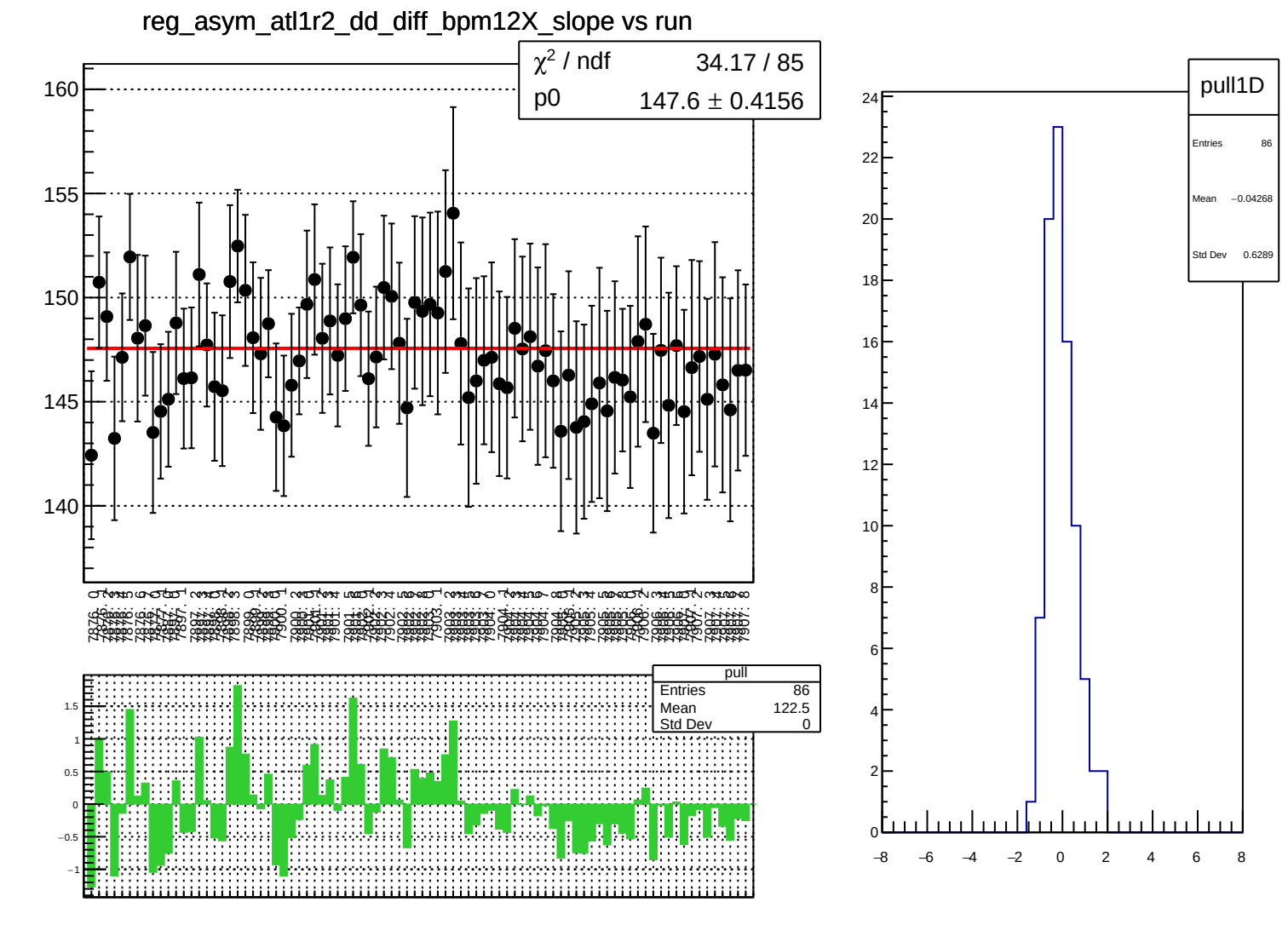

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 273.7 / 85
p0 238.8 ± 8.666
pull
Entries 86
Mean 52.21
Std Dev 13.74

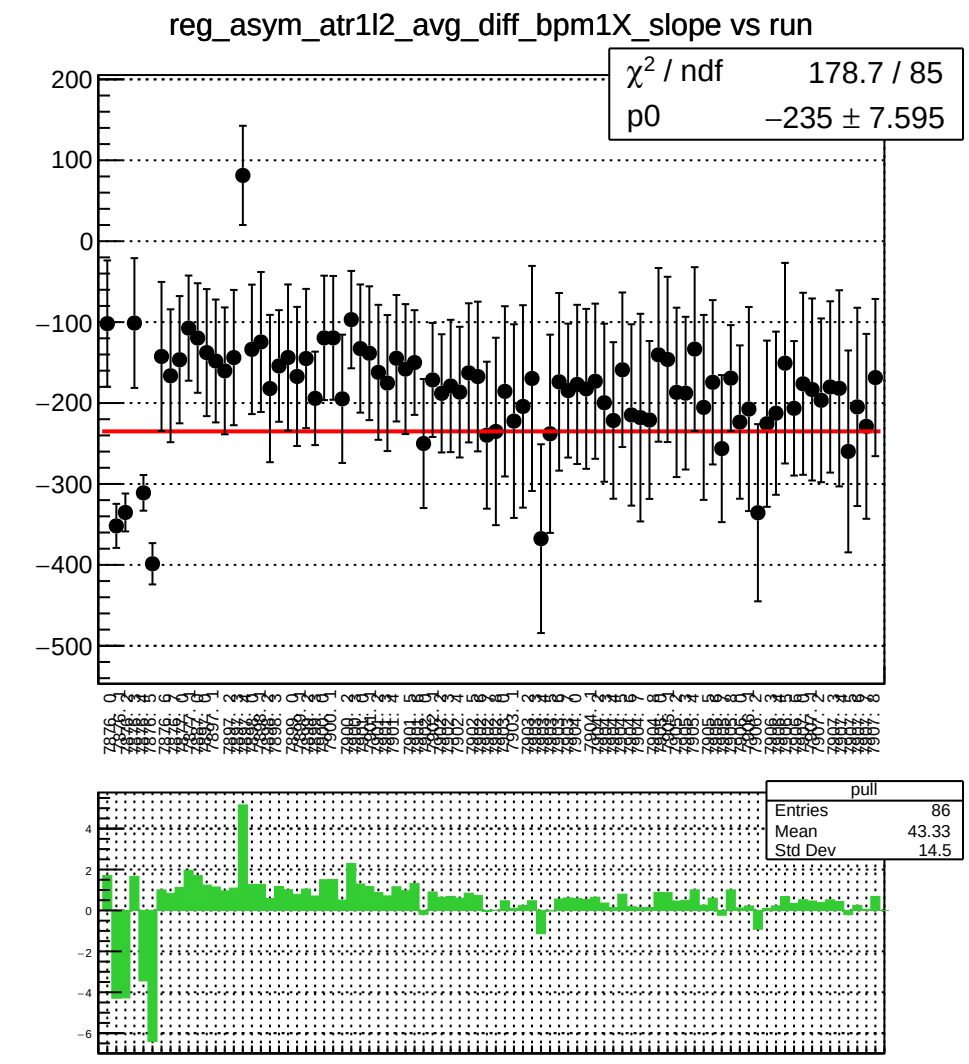

pull1D
Entries 86
Mean −0.9124
Std Dev 1.533

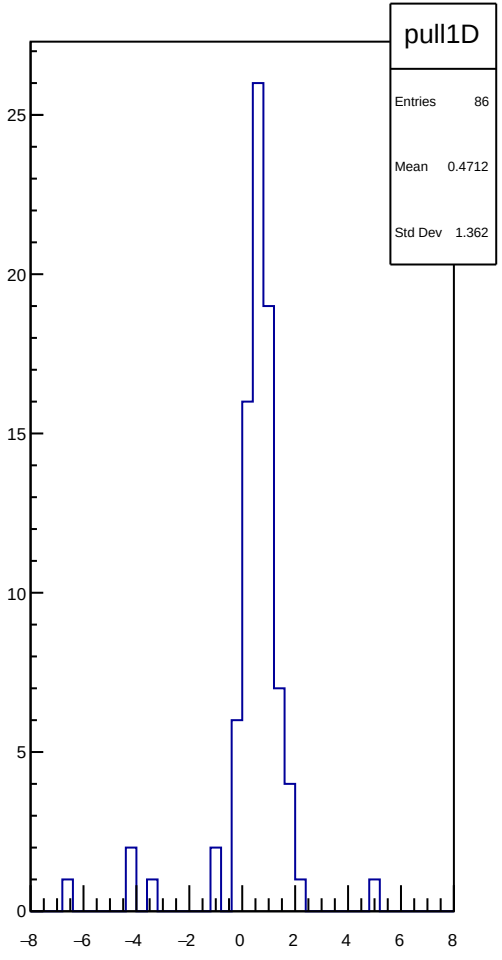

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.559 / 85
p0 −30.91 ± 9.397
pull
Entries 86
Mean 6731
Std Dev 0
pull1D
Entries 86
Mean 0.0002845
Std Dev 0.2762

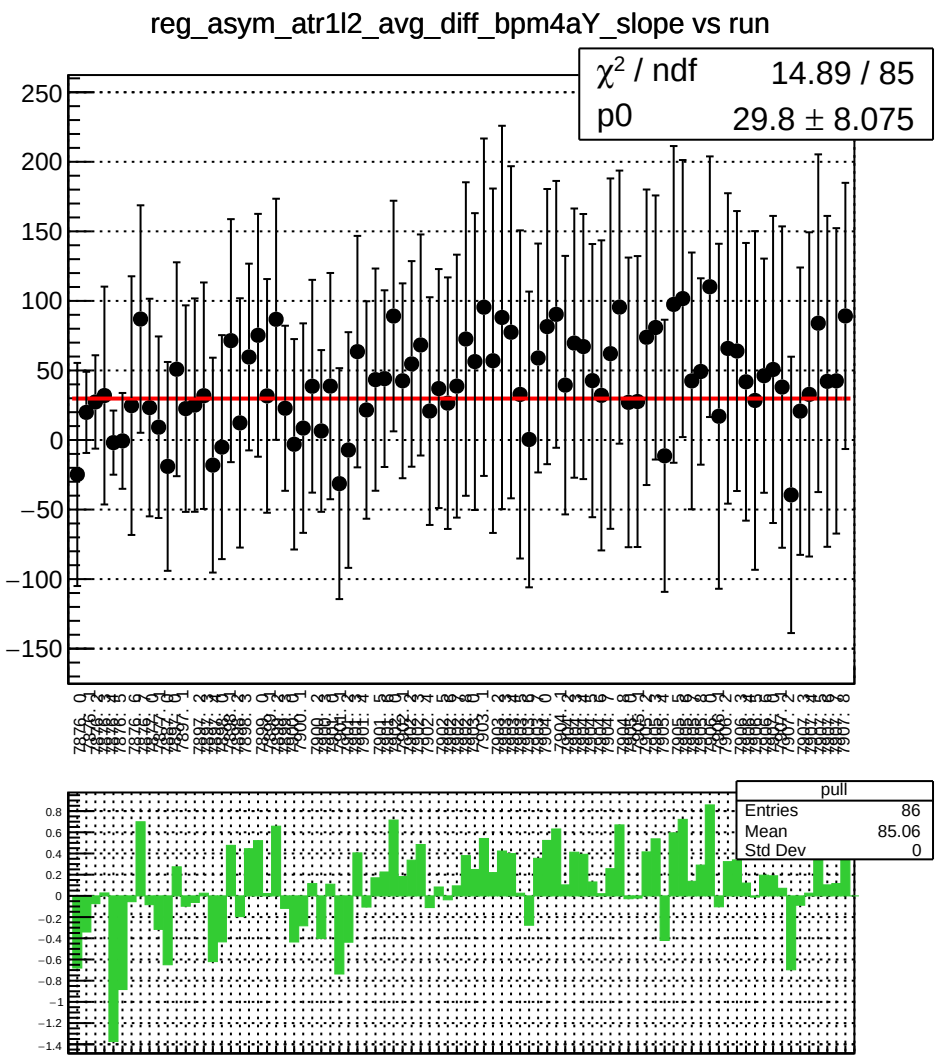

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 376.9 / 85
p0 −267.3 ± 6.899
0
−100
−200
−300
−400
pull
Entries 86
Mean 51.84
Std Dev 14.75
4
2
0
−2
−4
−6
pull1D
Entries 86
Mean 1.165
Std Dev 1.739
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

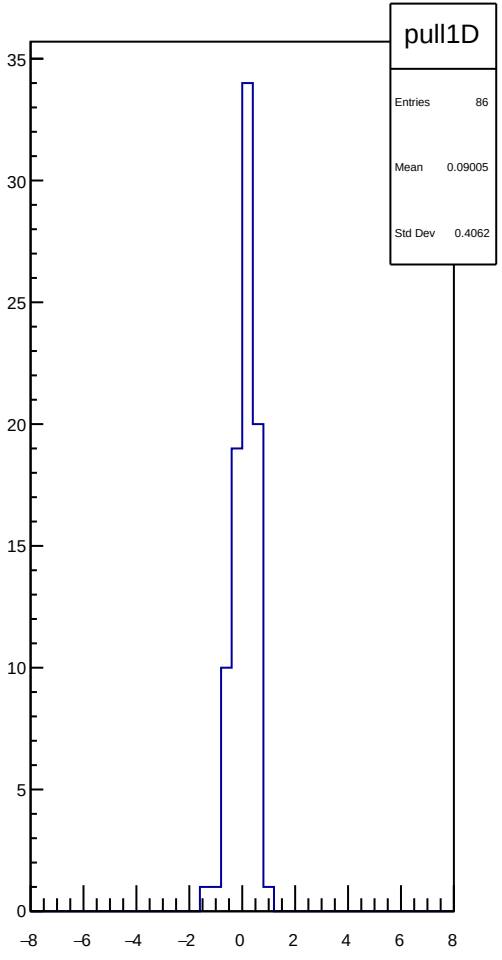

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.148 / 85
p0 −7.295 ± 11.92
200
100
0
−100
−200
pull
Entries 86
Mean 39.81
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 86
Mean 0.02134
Std Dev 0.2665
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

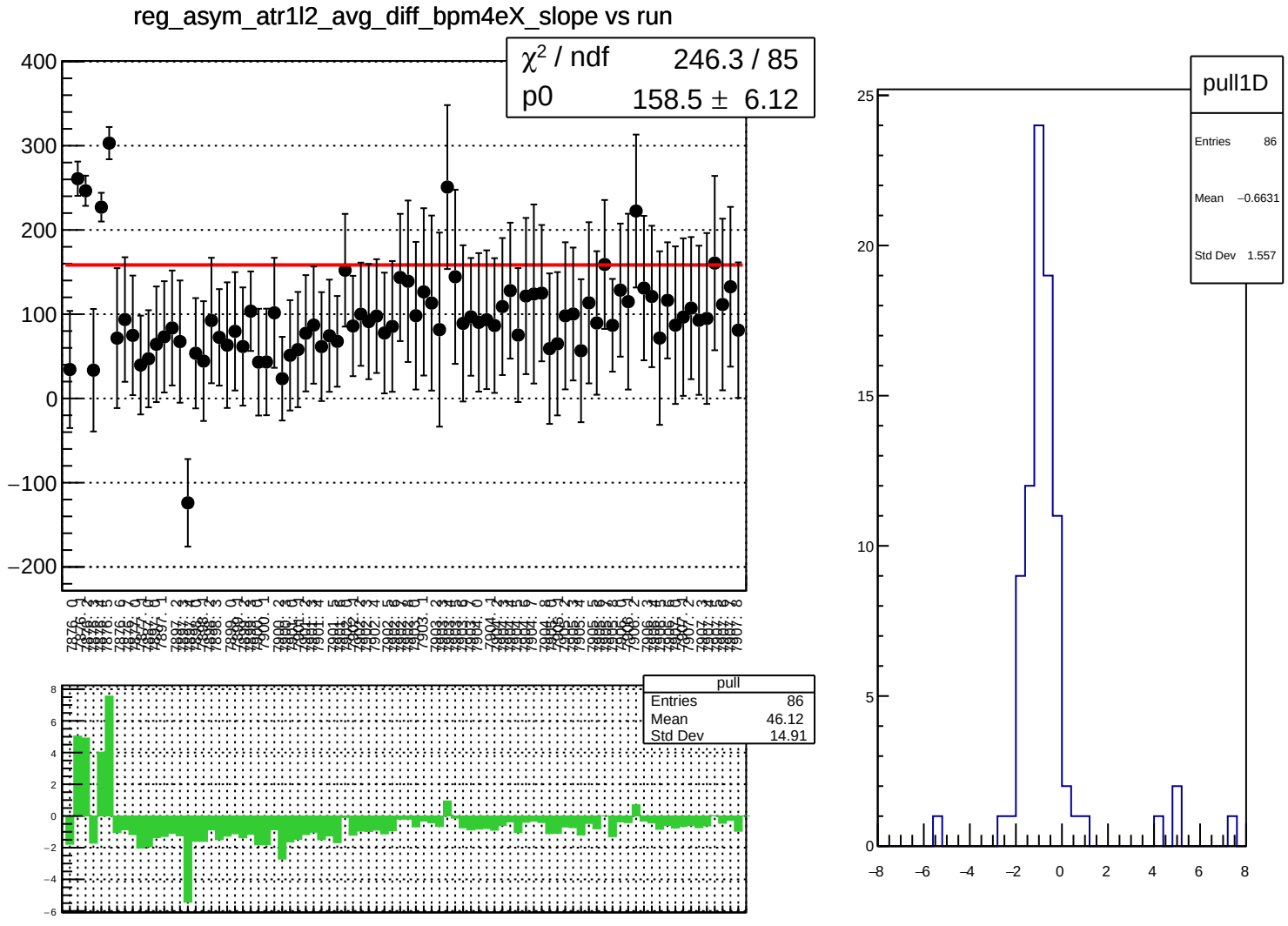

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 34.17 / 85
p0 147.6 ± 0.4156
160
155
150
145
140
pull
Entries 86
Mean 122.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.04268
Std Dev 0.6289
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

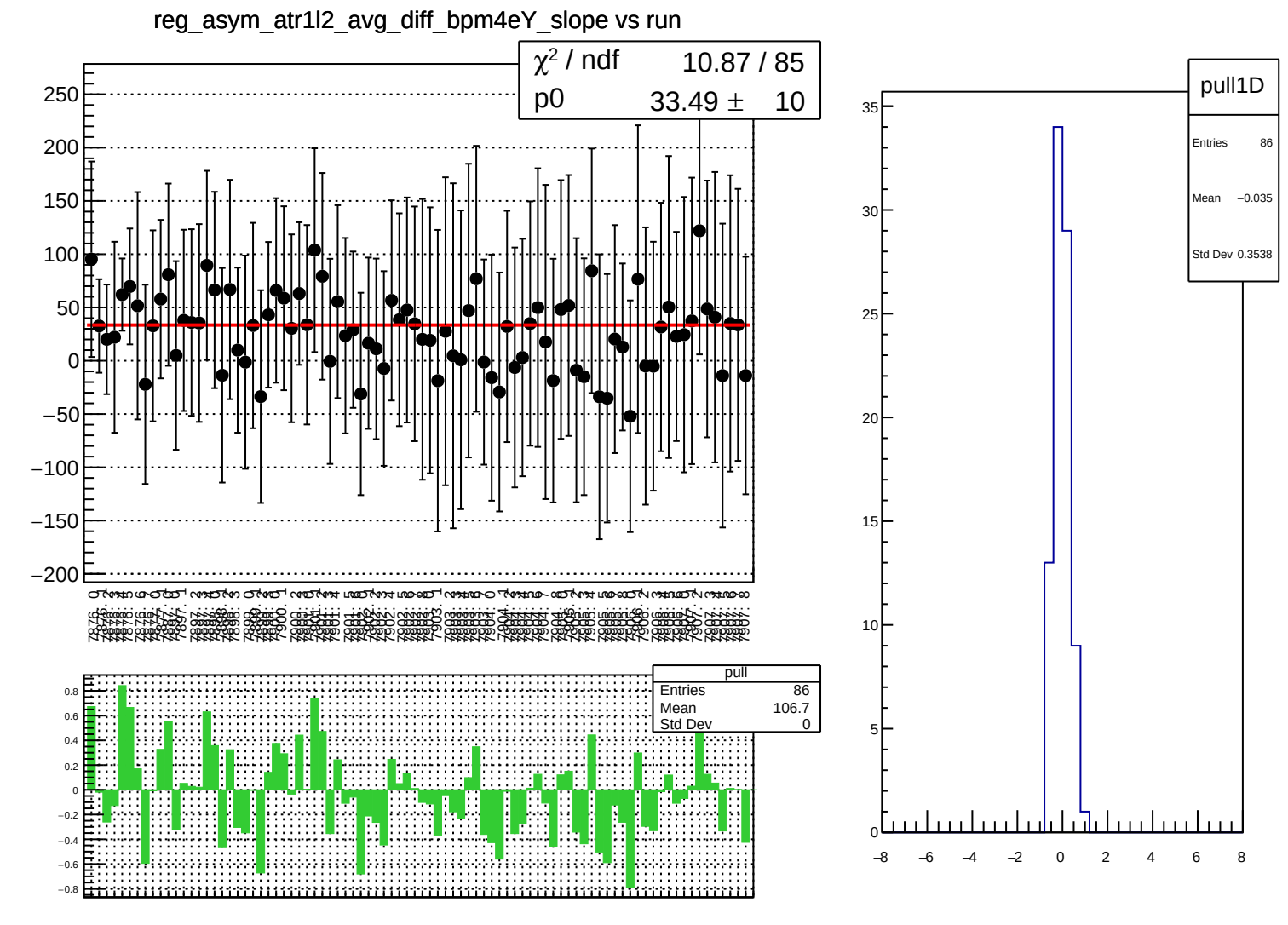

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 178.7 / 85
p0 −235 ± 7.595
pull
Entries 86
Mean 43.33
Std Dev 14.5

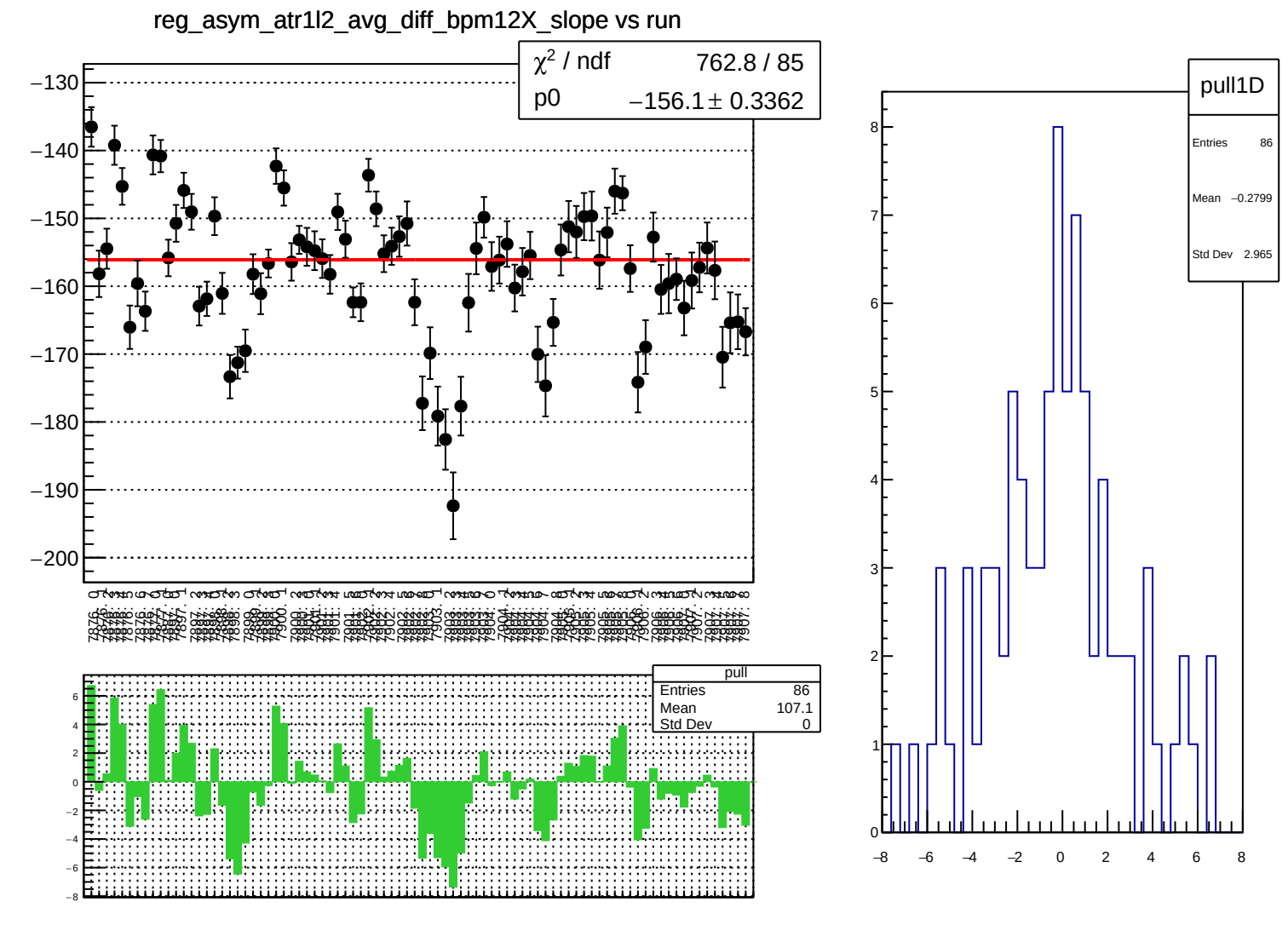

pull1D
Entries 86
Mean 0.4712
Std Dev 1.362

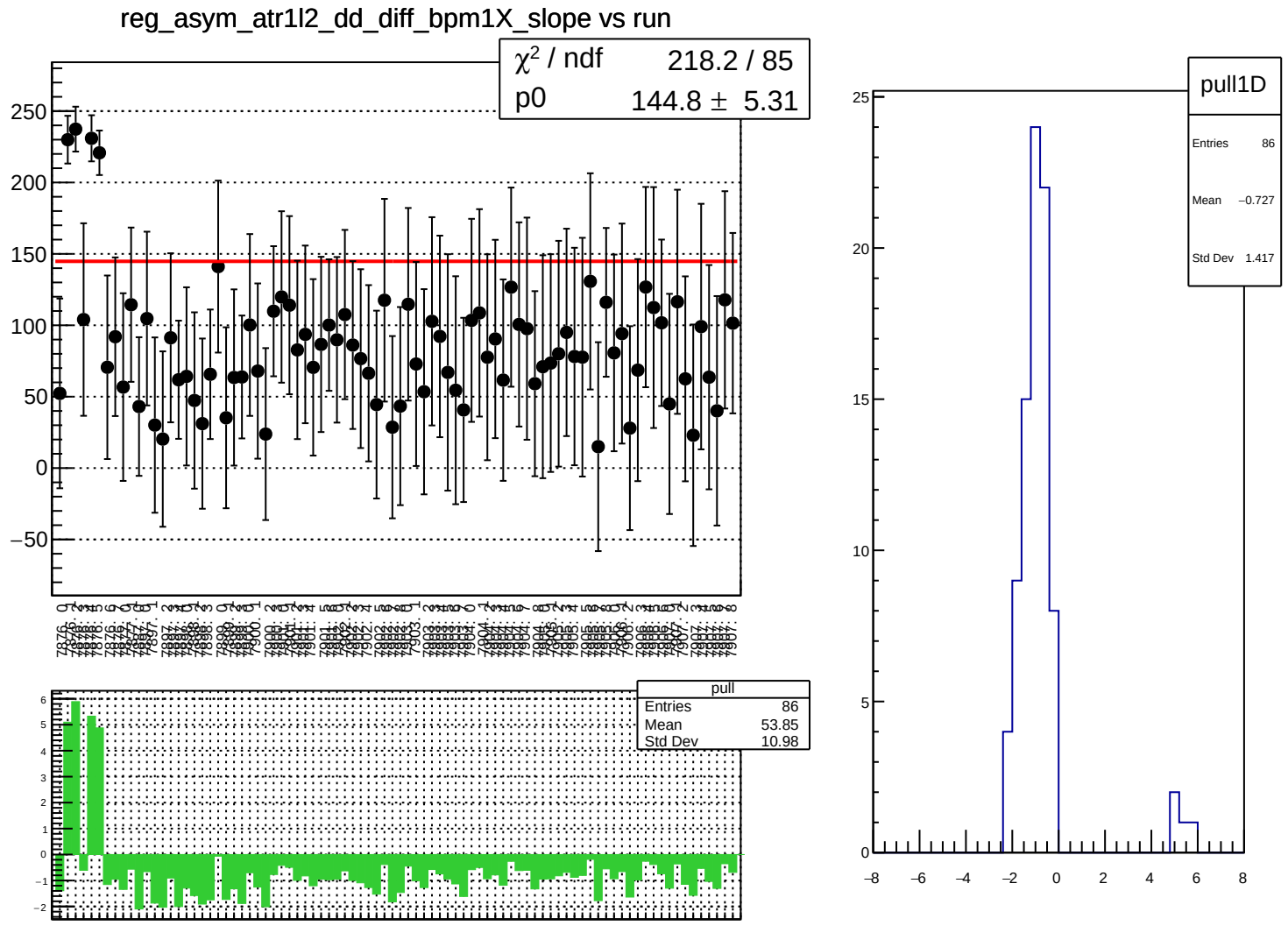

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.89 / 85
p0 29.8 ± 8.075
pull
Entries 86
Mean 85.06
Std Dev 0

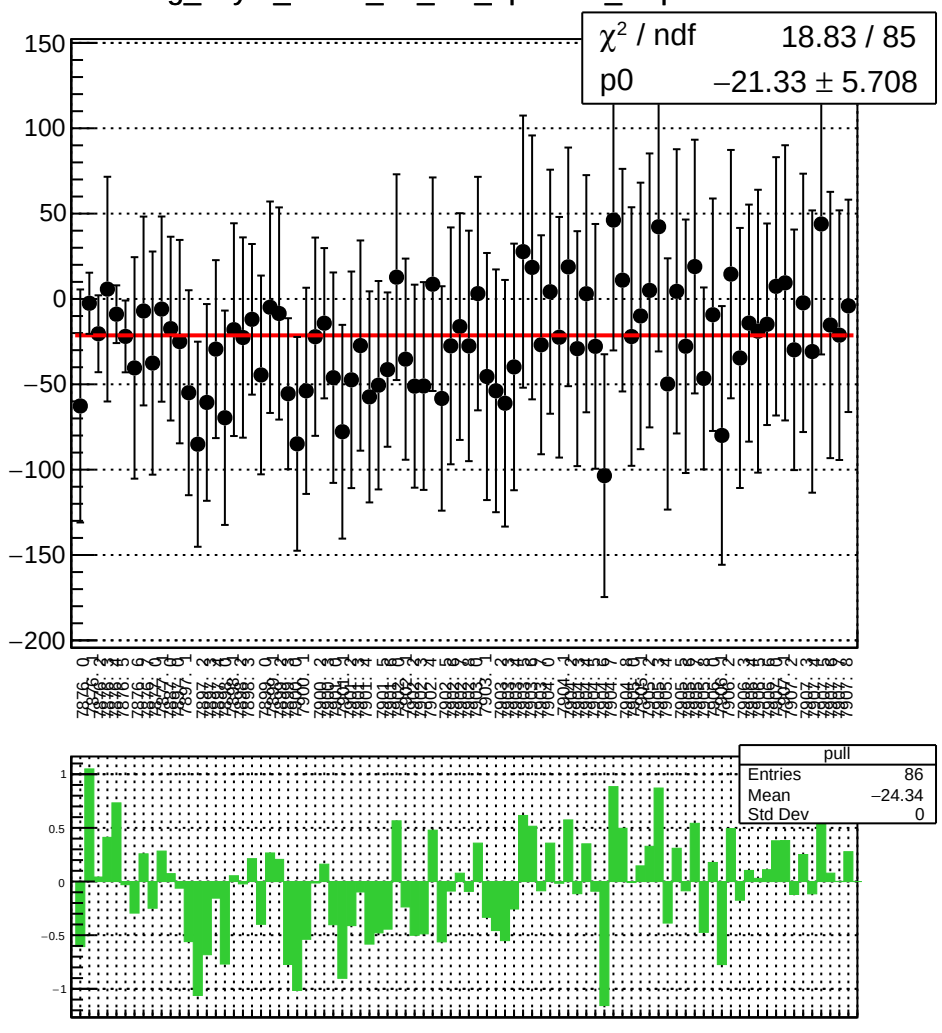

pull1D
Entries 86
Mean 0.09005
Std Dev 0.4062

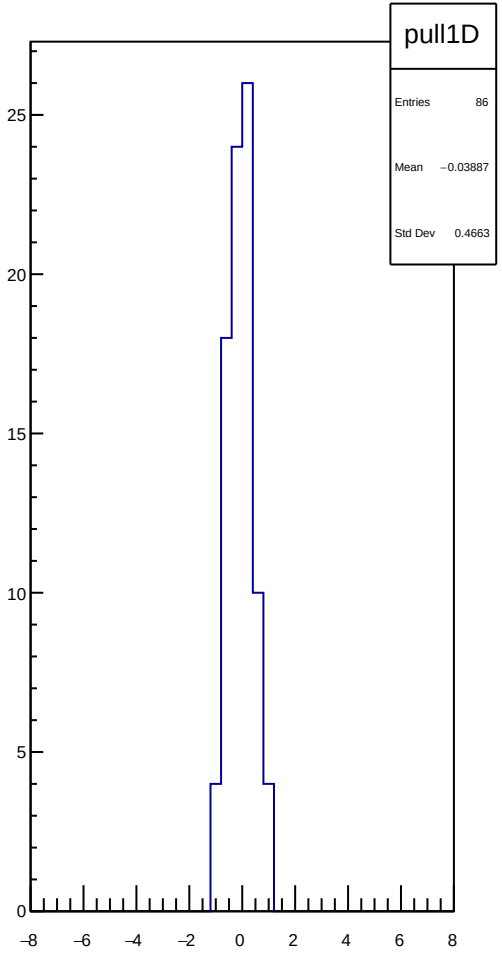

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 246.3 / 85
p0 158.5 ± 6.12
pull
Entries 86
Mean 46.12
Std Dev 14.91
pull1D
Entries 86
Mean −0.6631
Std Dev 1.557

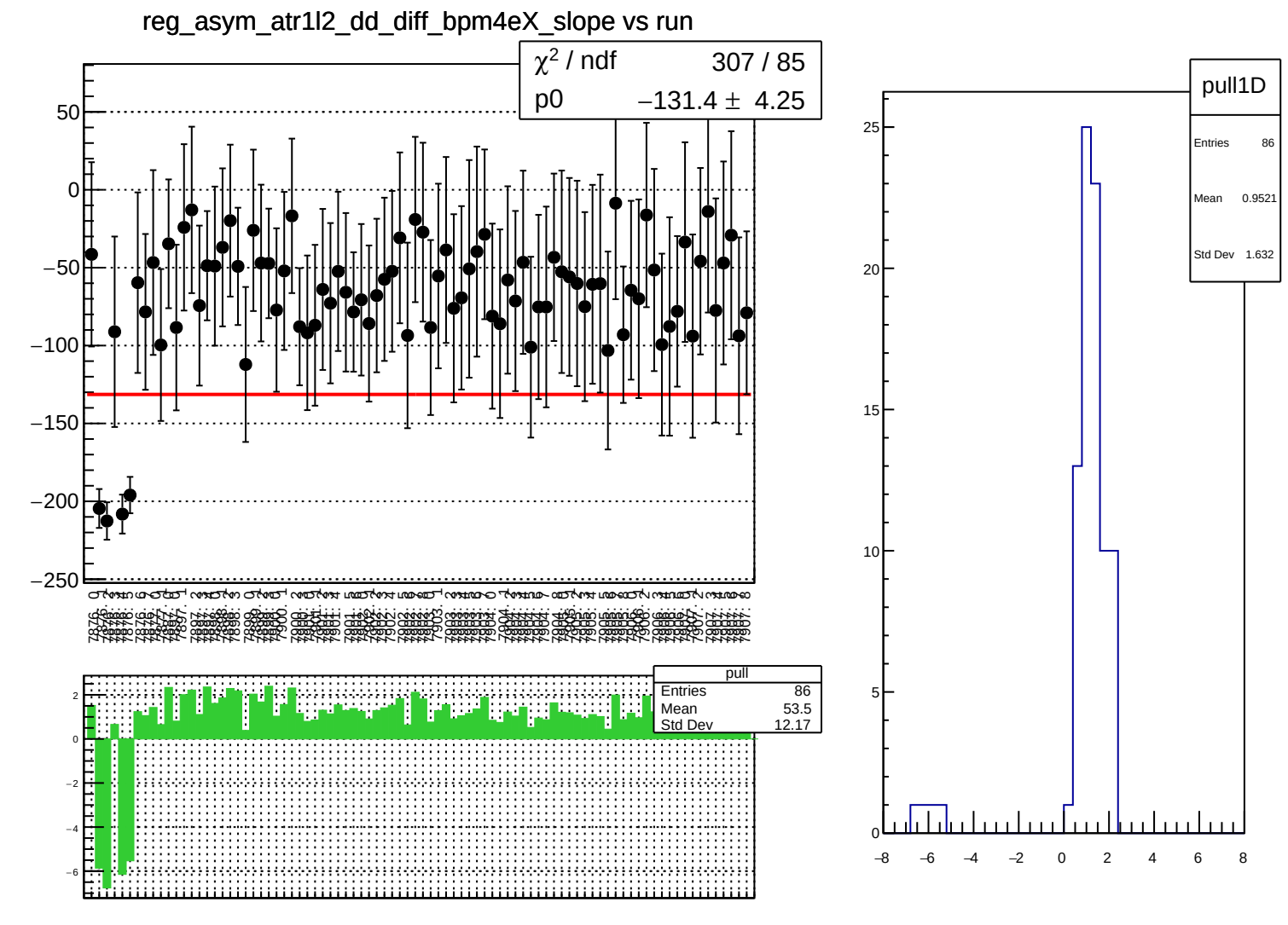

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.87 / 85
p0 33.49 ± 10
pull
Entries 86
Mean 106.7
Std Dev 0
pull1D
Entries 86
Mean −0.035
Std Dev 0.3538

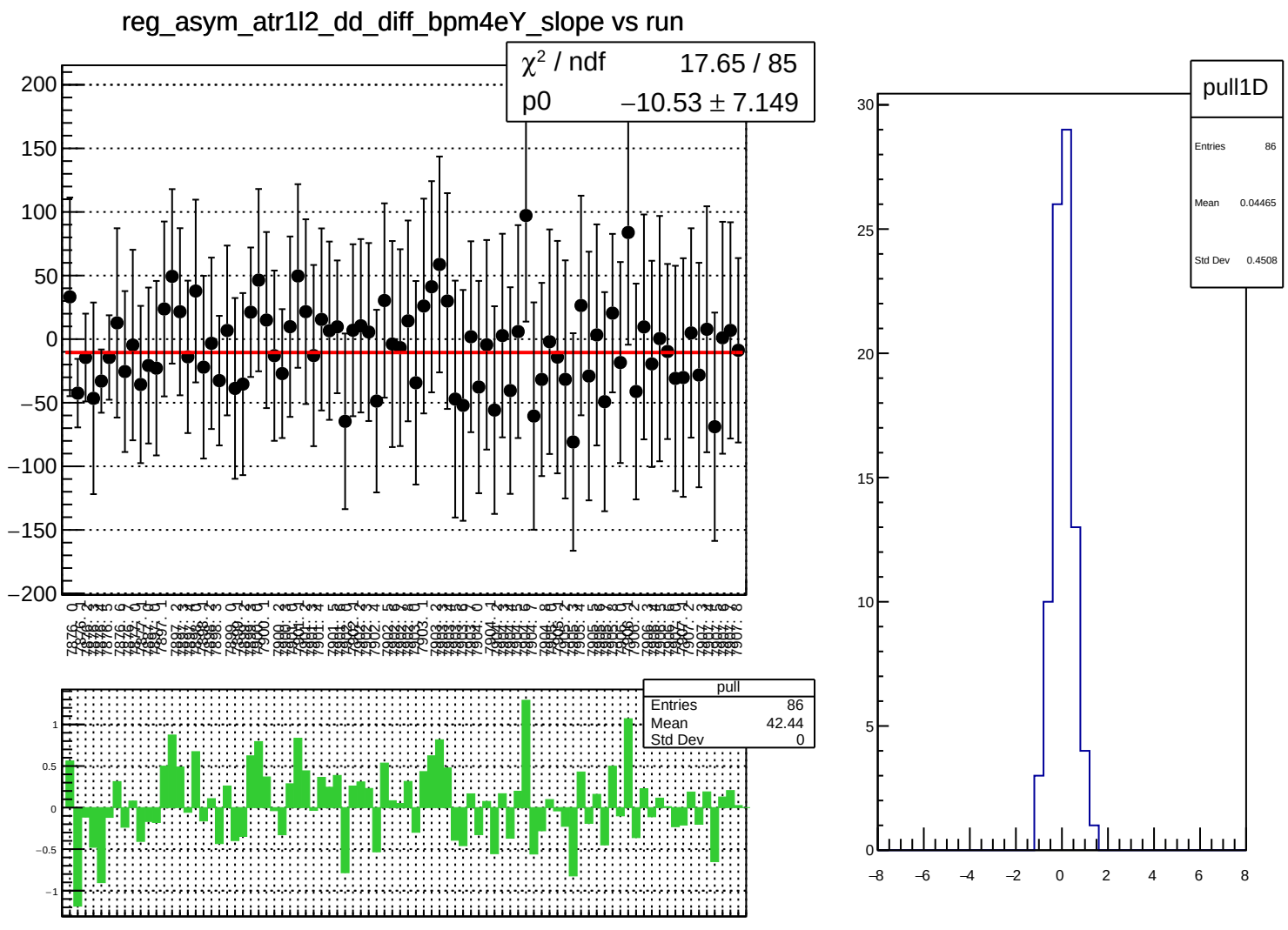

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 762.8 / 85
p0 −156.1 ± 0.3362
−130
−140
−150
−160
−170
−180
−190
−200
pull
Entries 86
Mean 107.1
Std Dev 0
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 86
Mean −0.2799
Std Dev 2.965
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

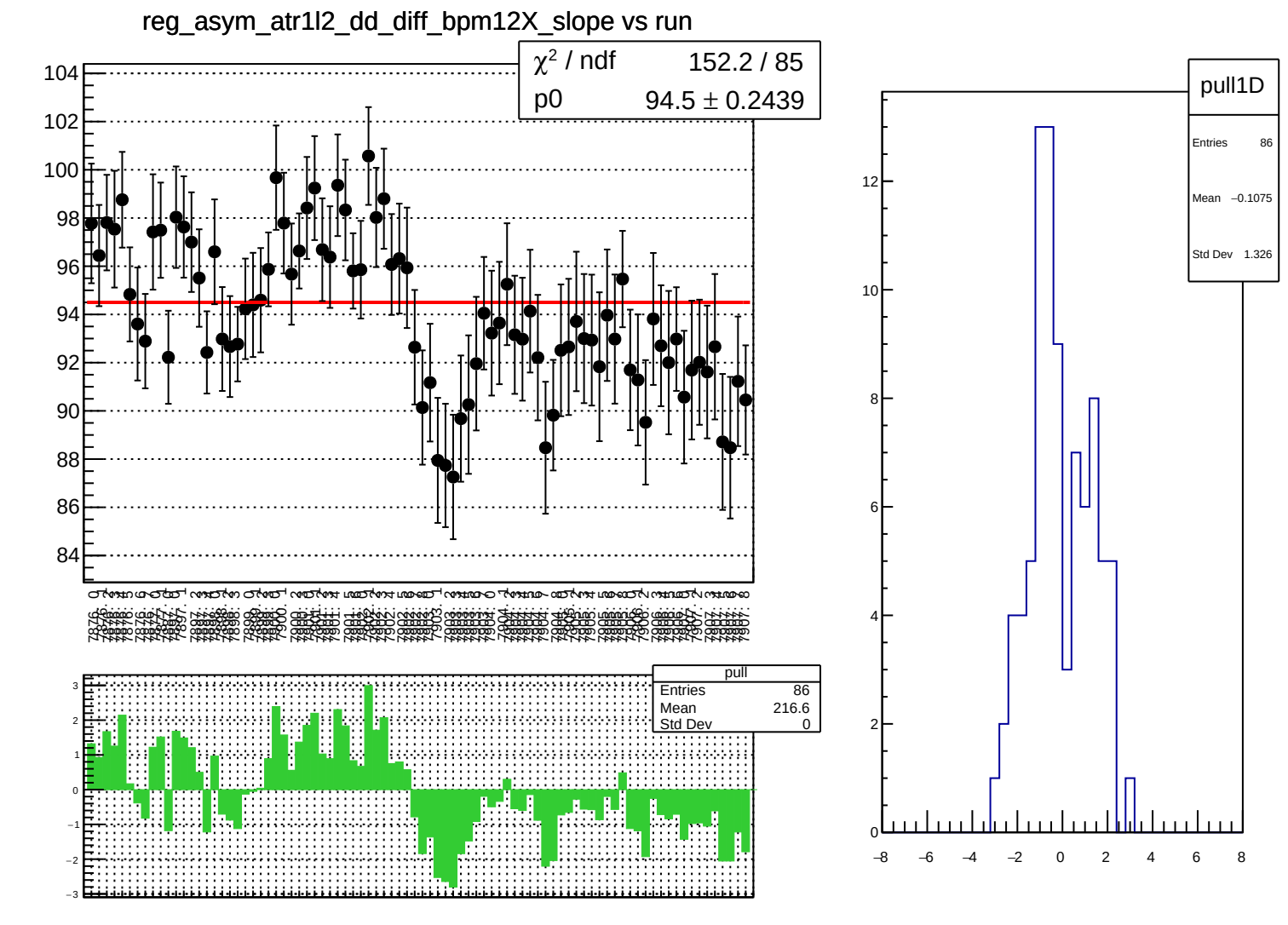

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 218.2 / 85
p0 144.8 ± 5.31
pull
Entries 86
Mean 53.85
Std Dev 10.98
pull1D
Entries 86
Mean −0.727
Std Dev 1.417

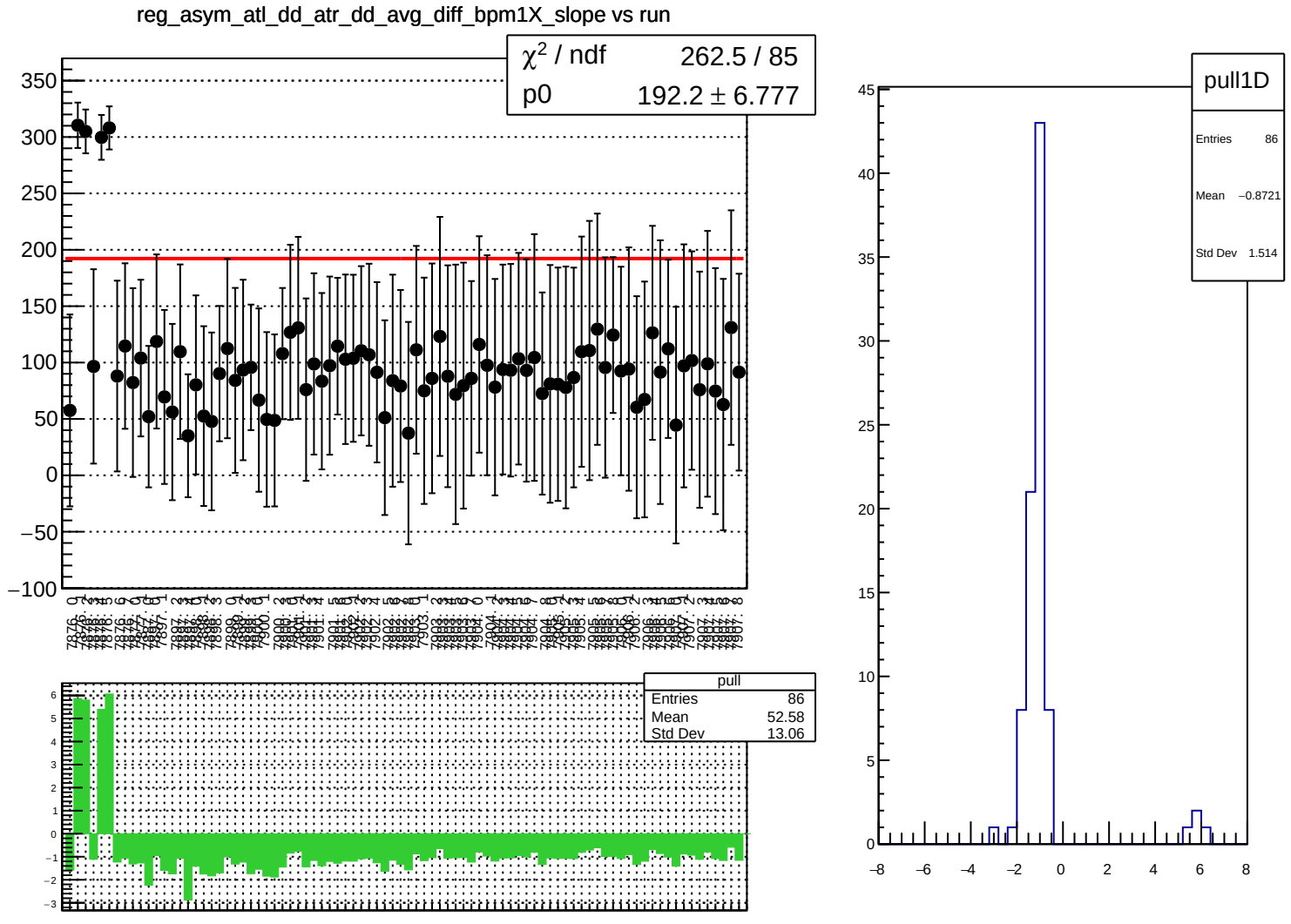

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.83 / 85
p0 −21.33 ± 5.708
pull
Entries 86
Mean −24.34
Std Dev 0

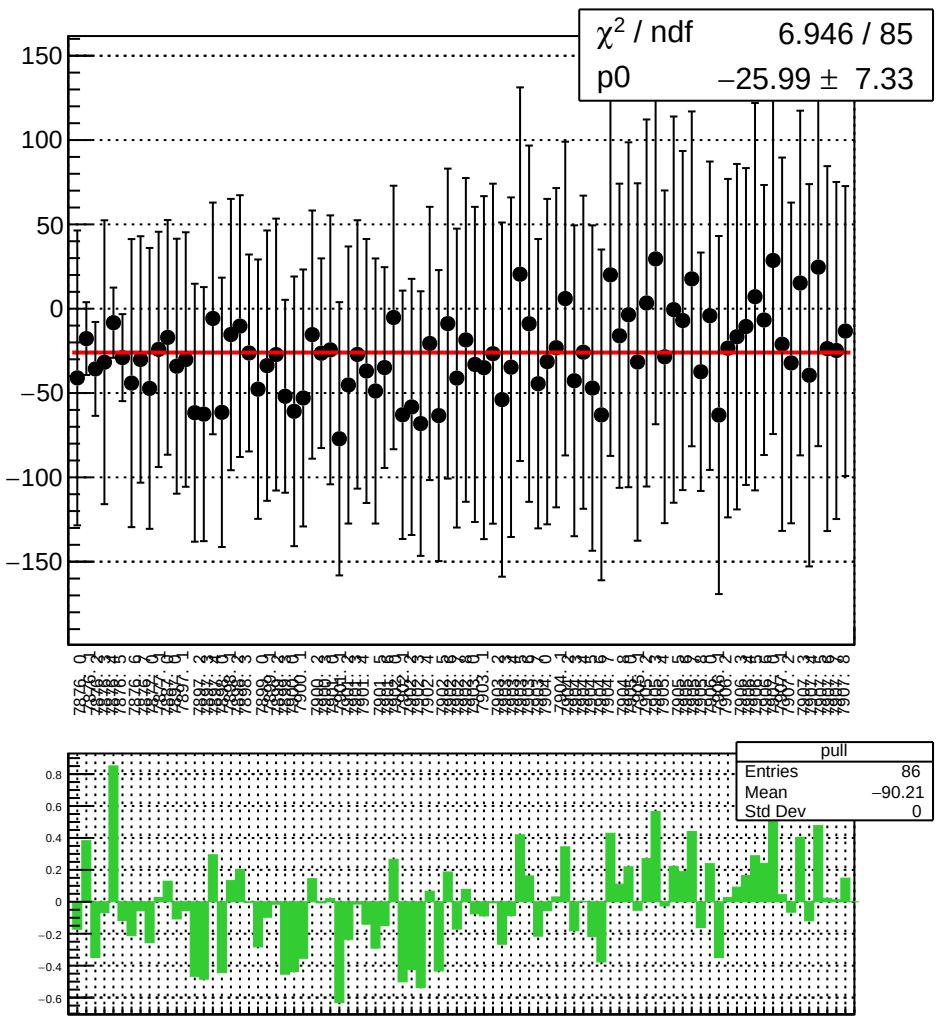

pull1D
Entries 86
Mean −0.03887
Std Dev 0.4663

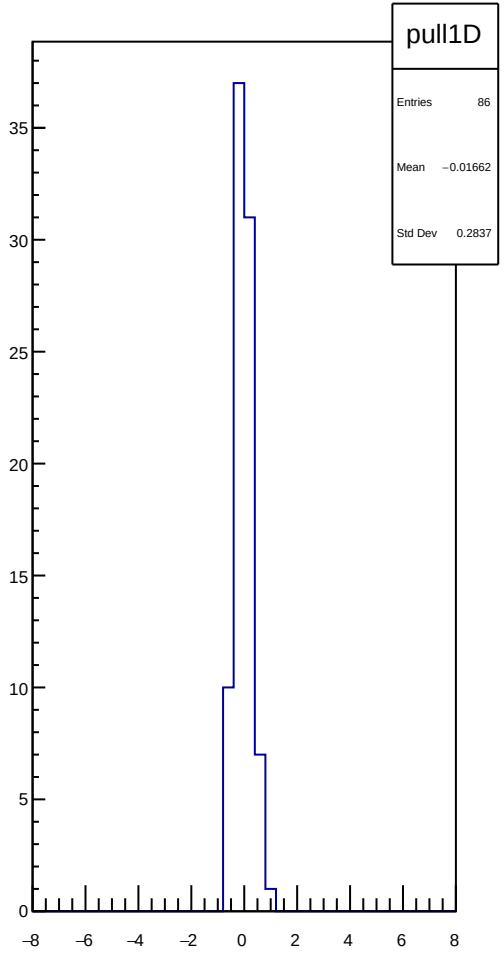

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 307 / 85
p0 −131.4 ± 4.25
50
0
−50
−100
−150
−200
−250
pull
Entries 86
Mean 53.5
Std Dev 12.17
2
0
−2
−4
−6
pull1D
Entries 86
Mean 0.9521
Std Dev 1.632
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

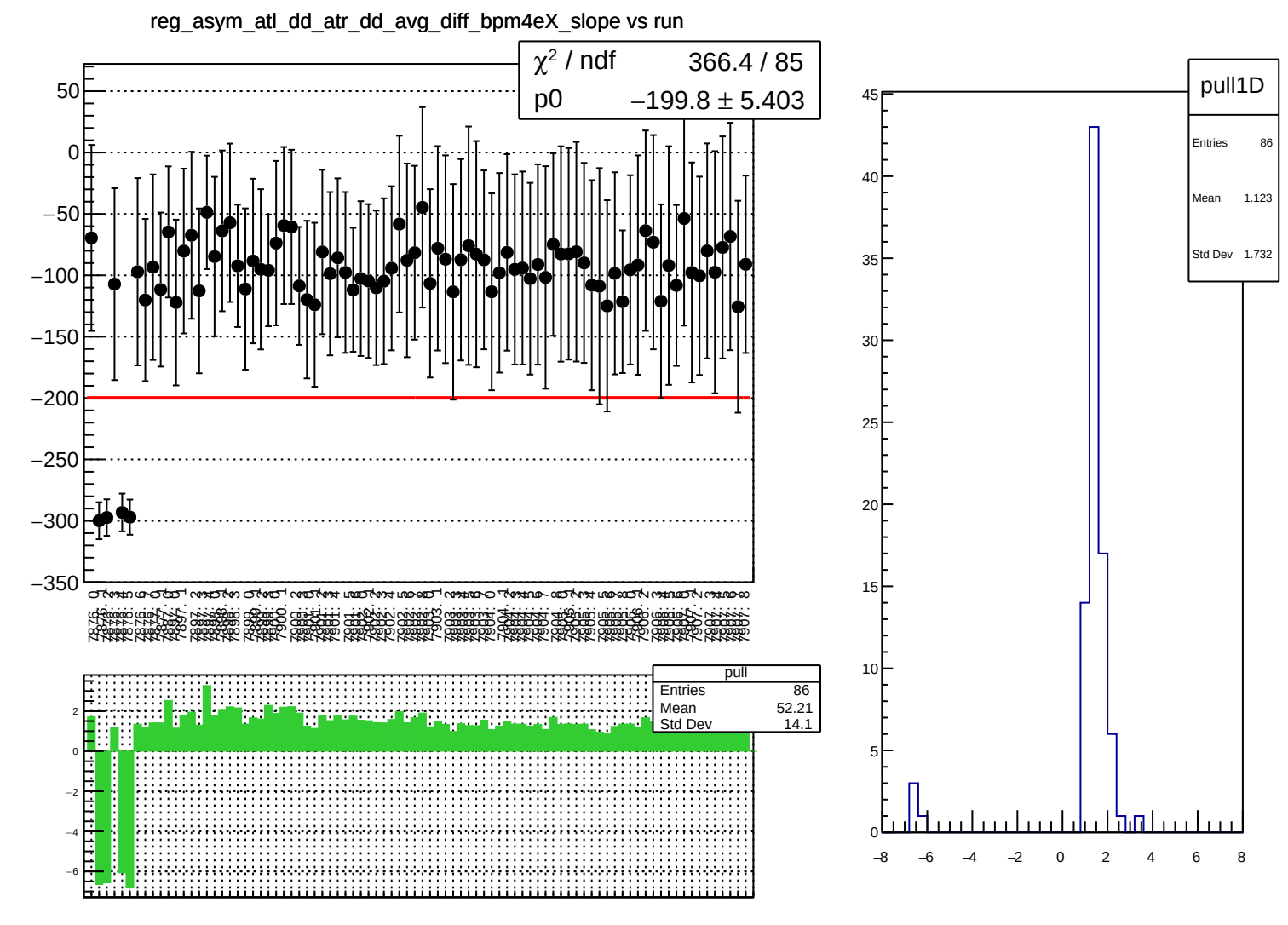

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.65 / 85
p0 −10.53 ± 7.149
pull
Entries 86
Mean 42.44
Std Dev 0
pull1D
Entries 86
Mean 0.04465
Std Dev 0.4508

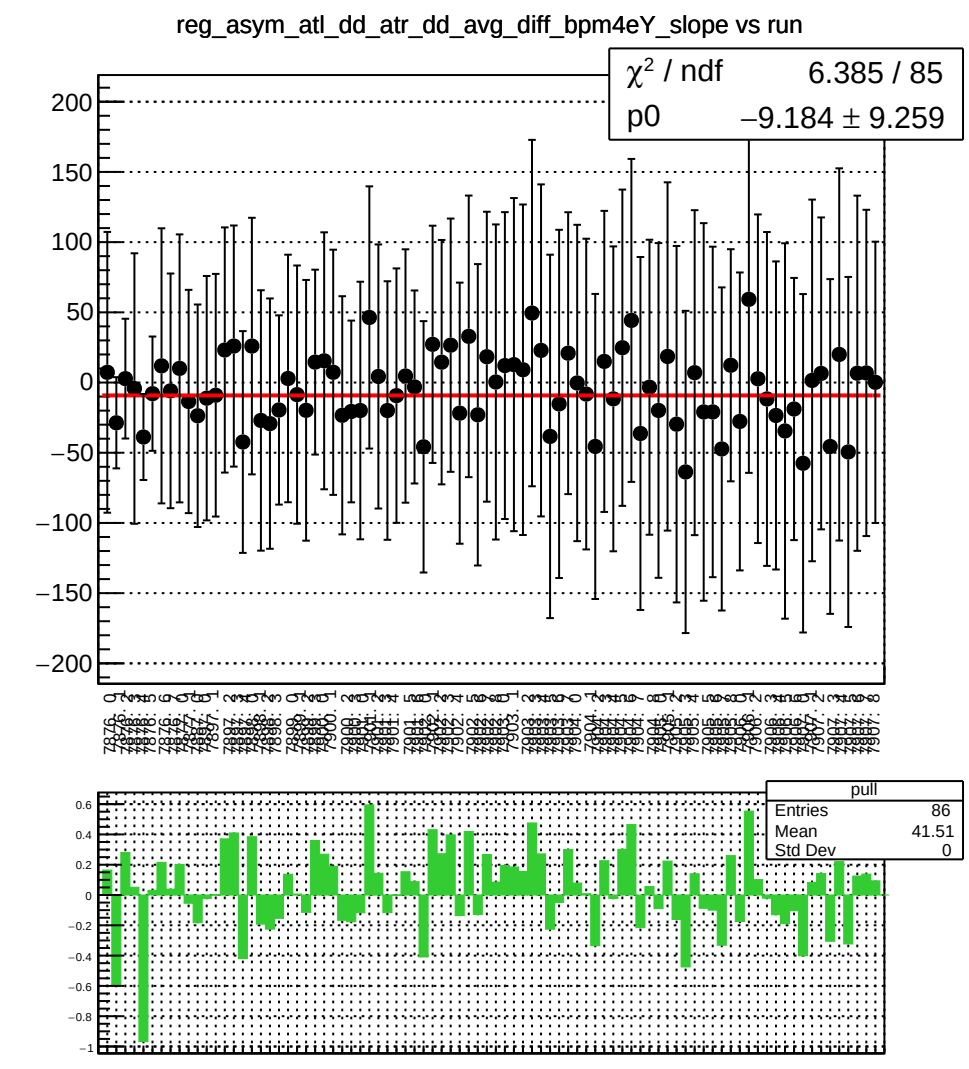

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 152.2 / 85
p0 94.5 ± 0.2439
pull
Entries 86
Mean 216.6
Std Dev 0
pull1D
Entries 86
Mean −0.1075
Std Dev 1.326

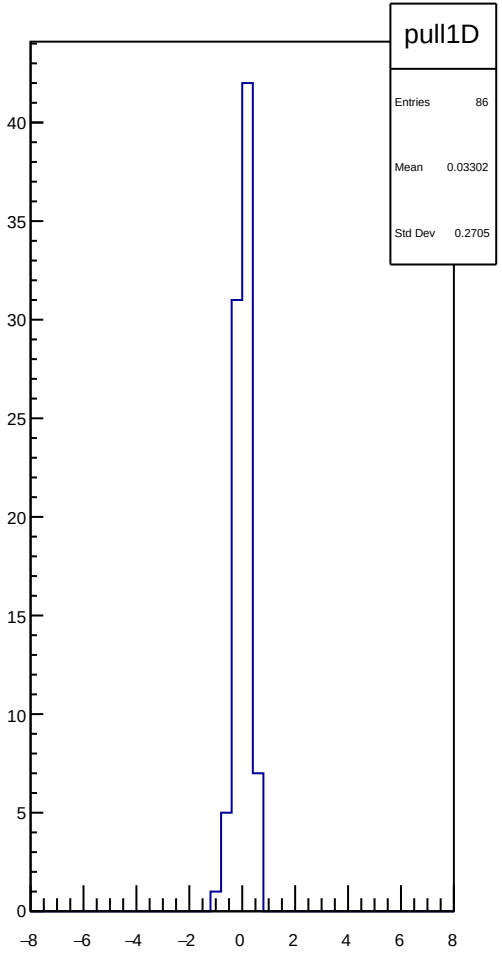

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 262.5 / 85
p0 192.2 ± 6.777
pull
Entries 86
Mean 52.58
Std Dev 13.06
pull1D
Entries 86
Mean −0.8721
Std Dev 1.514

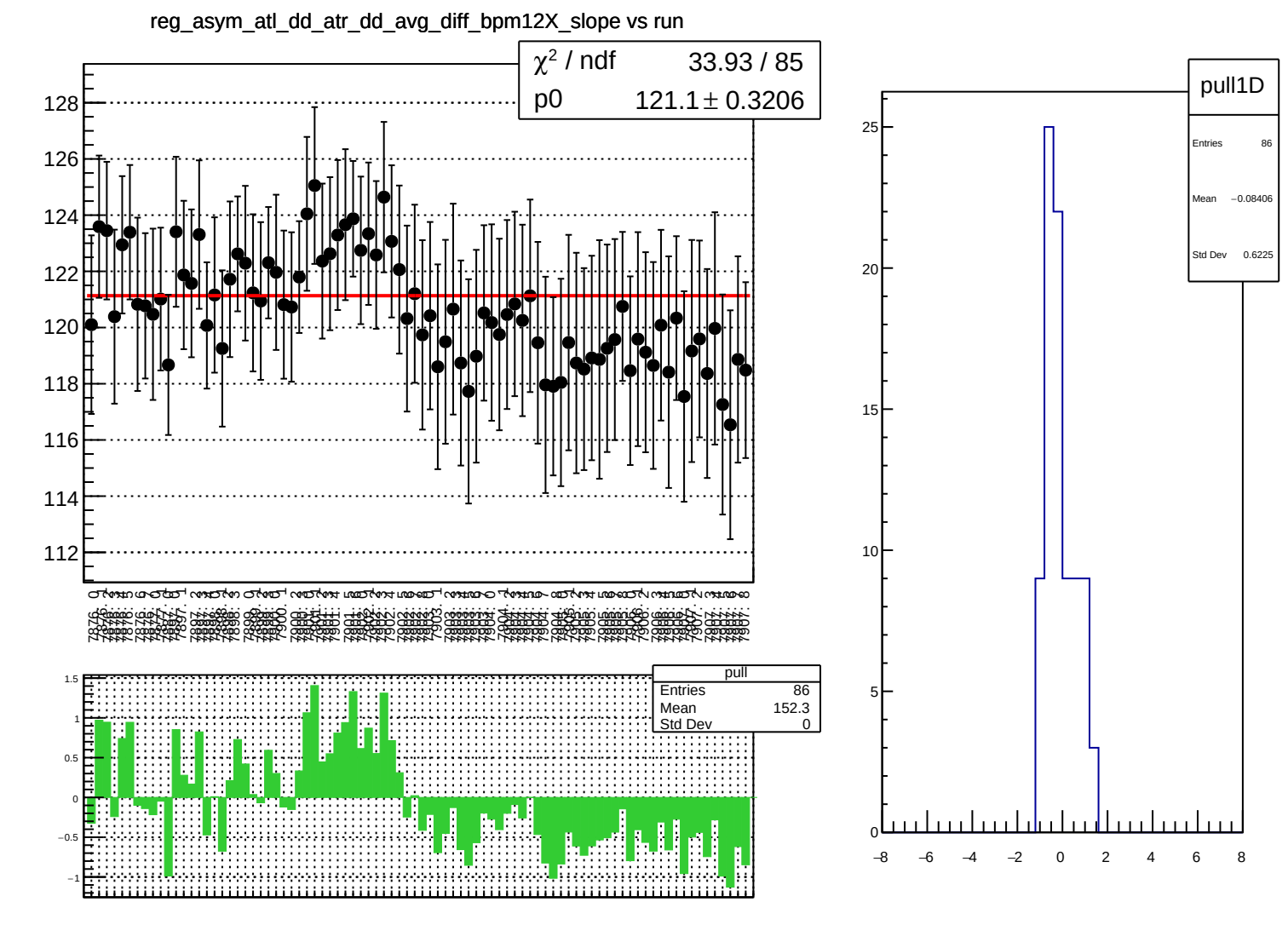

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.946 / 85
p0 −25.99 ± 7.33
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −90.21
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

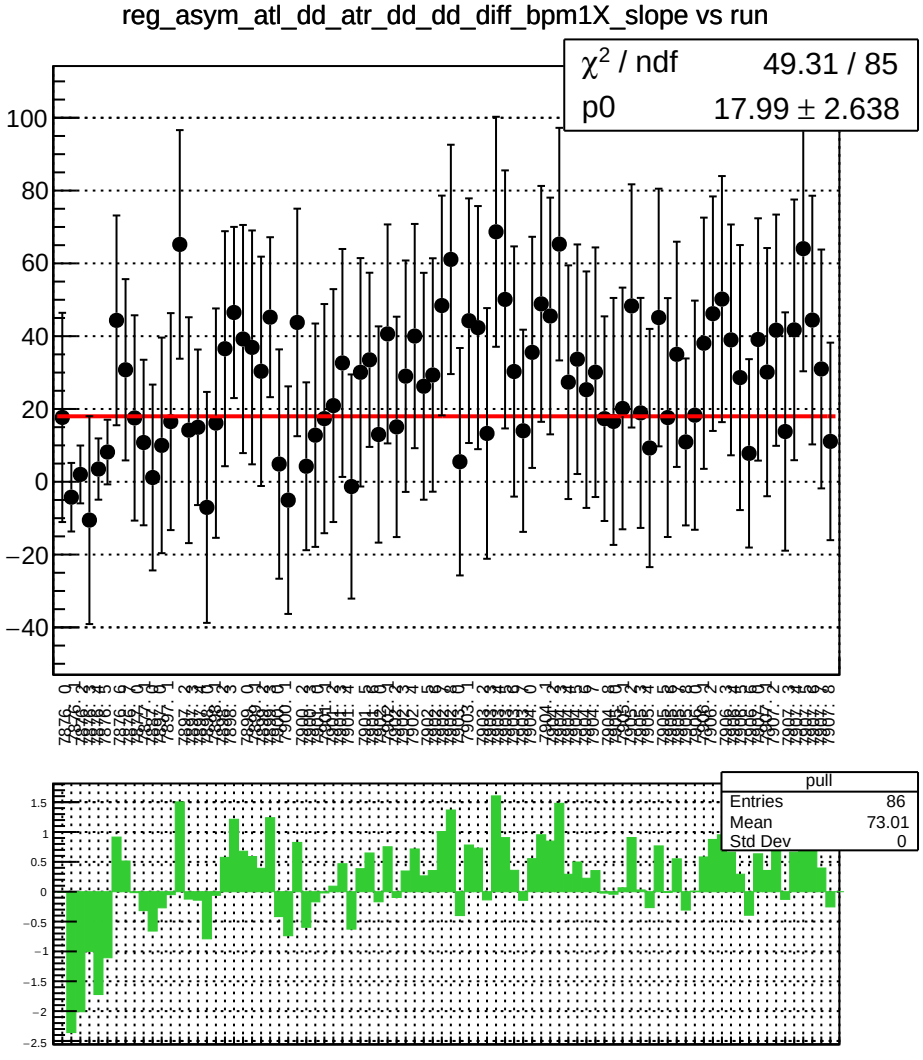

pull1D
Entries 86
Mean −0.01662
Std Dev 0.2837
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

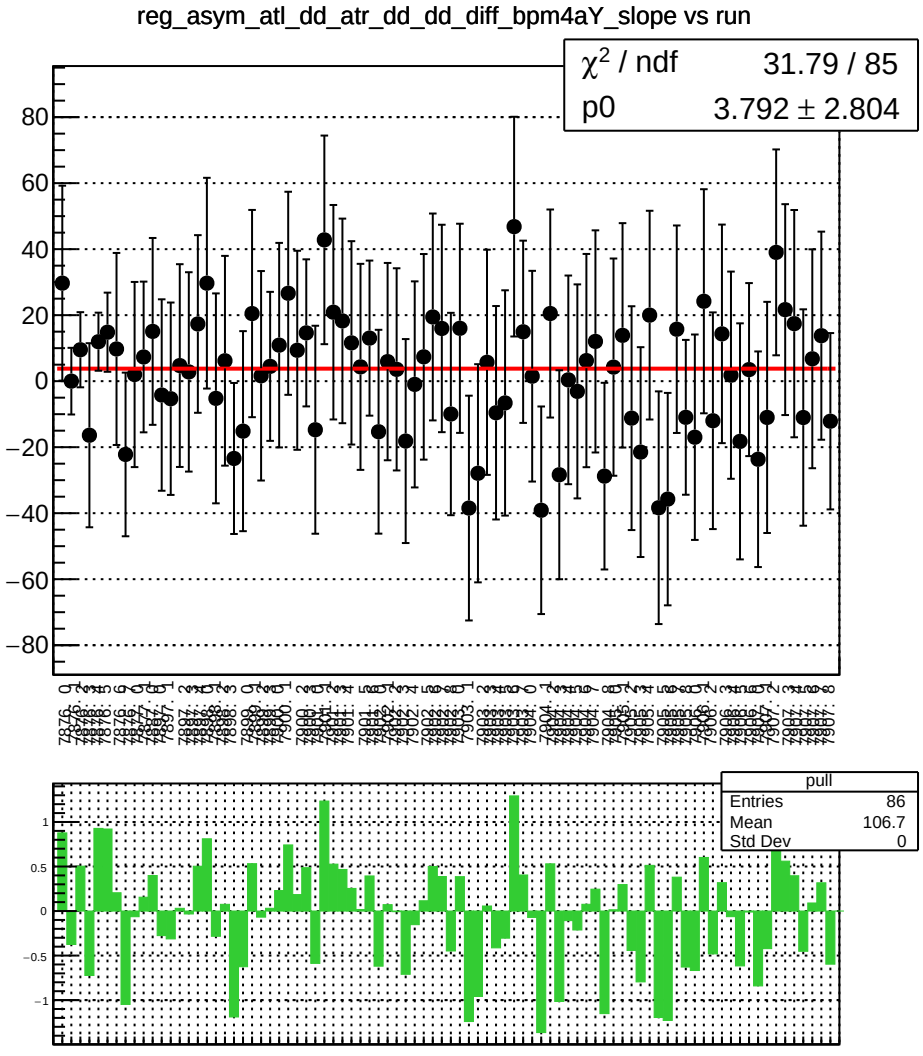

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 366.4 / 85
p0 −199.8 ± 5.403
pull
Entries 86
Mean 52.21
Std Dev 14.1
pull1D
Entries 86
Mean 1.123
Std Dev 1.732

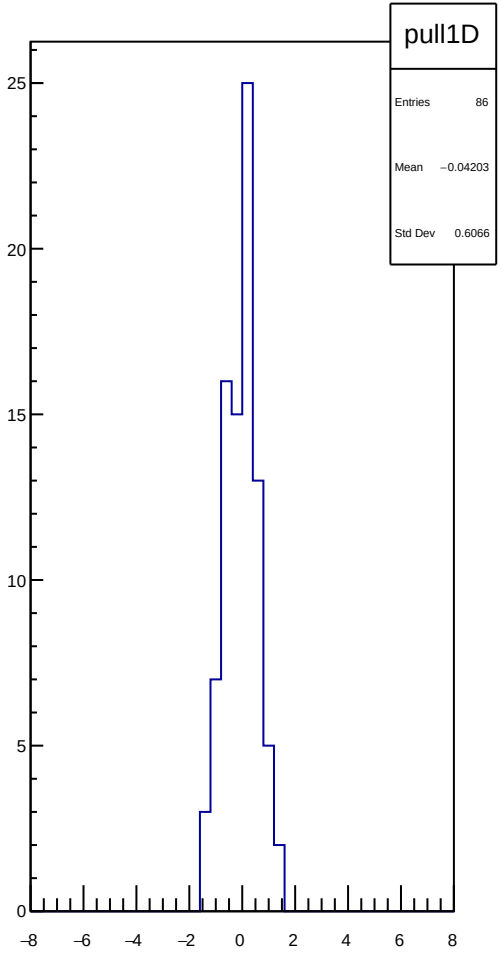

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.385 / 85
p0 −9.184 ± 9.259
pull
Entries 86
Mean 41.51
Std Dev 0

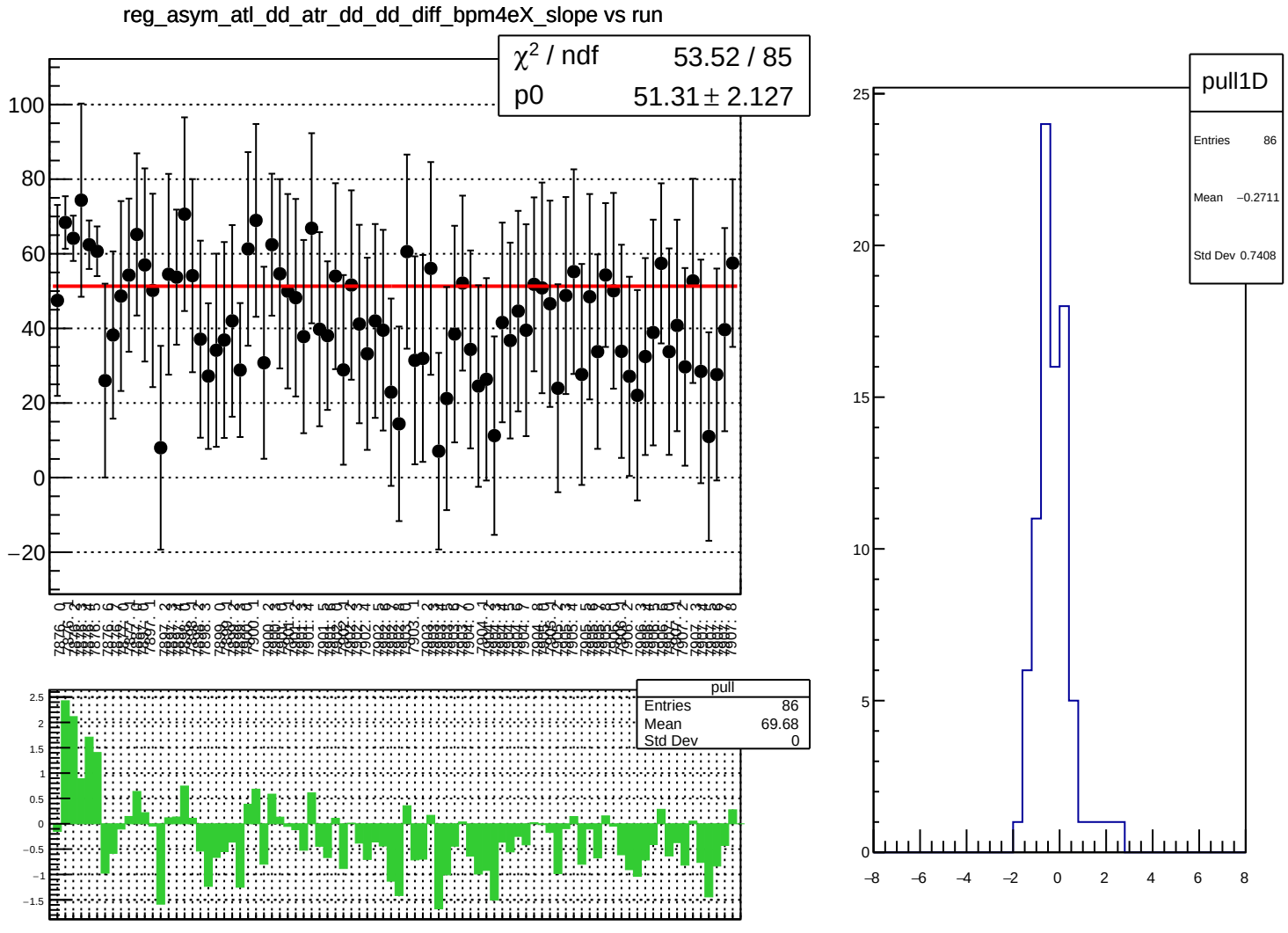

pull1D
Entries 86
Mean 0.03302
Std Dev 0.2705

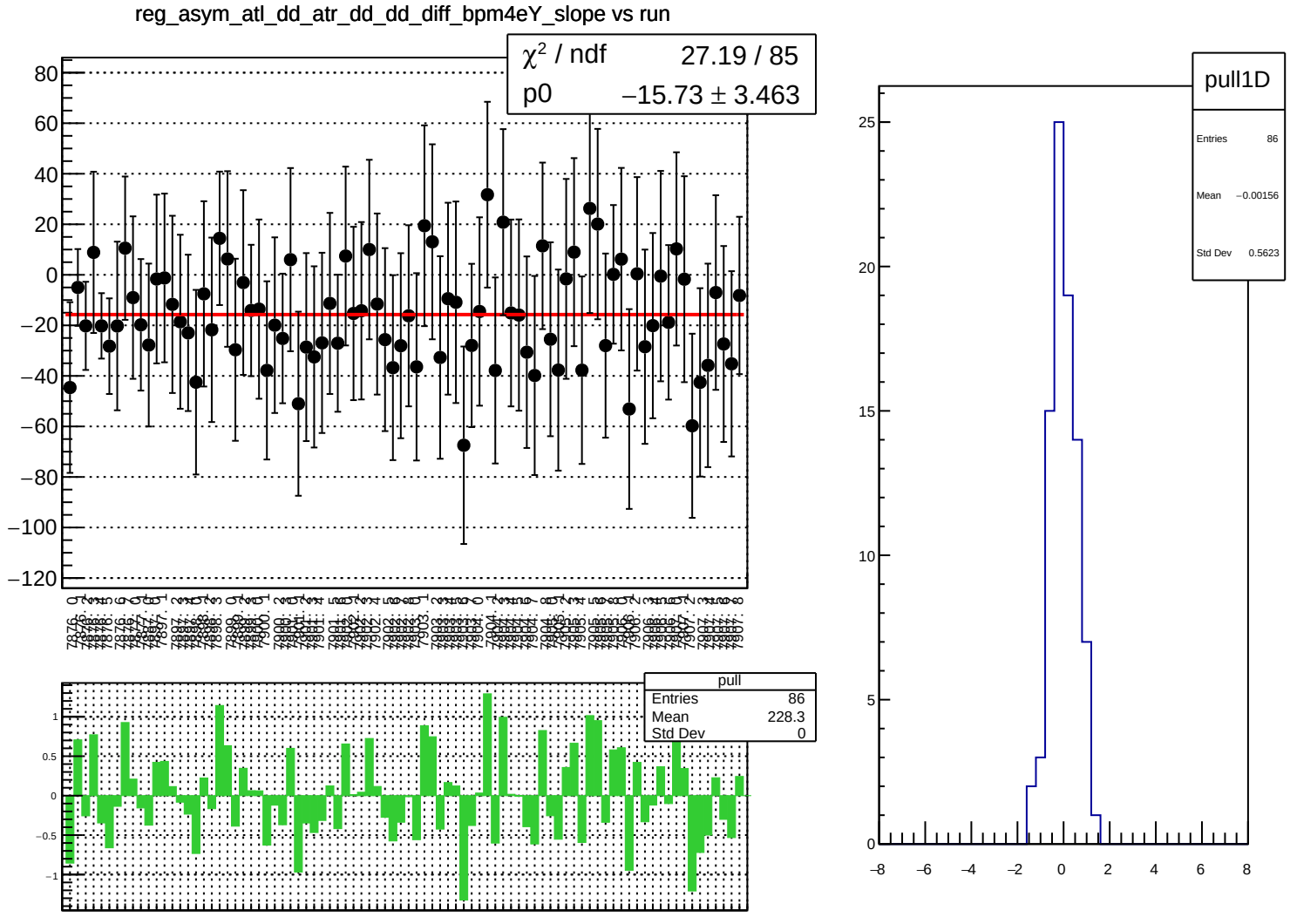

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 33.93 / 85
p0 121.1 ± 0.3206
pull
Entries 86
Mean 152.3
Std Dev 0
pull1D
Entries 86
Mean −0.08406
Std Dev 0.6225

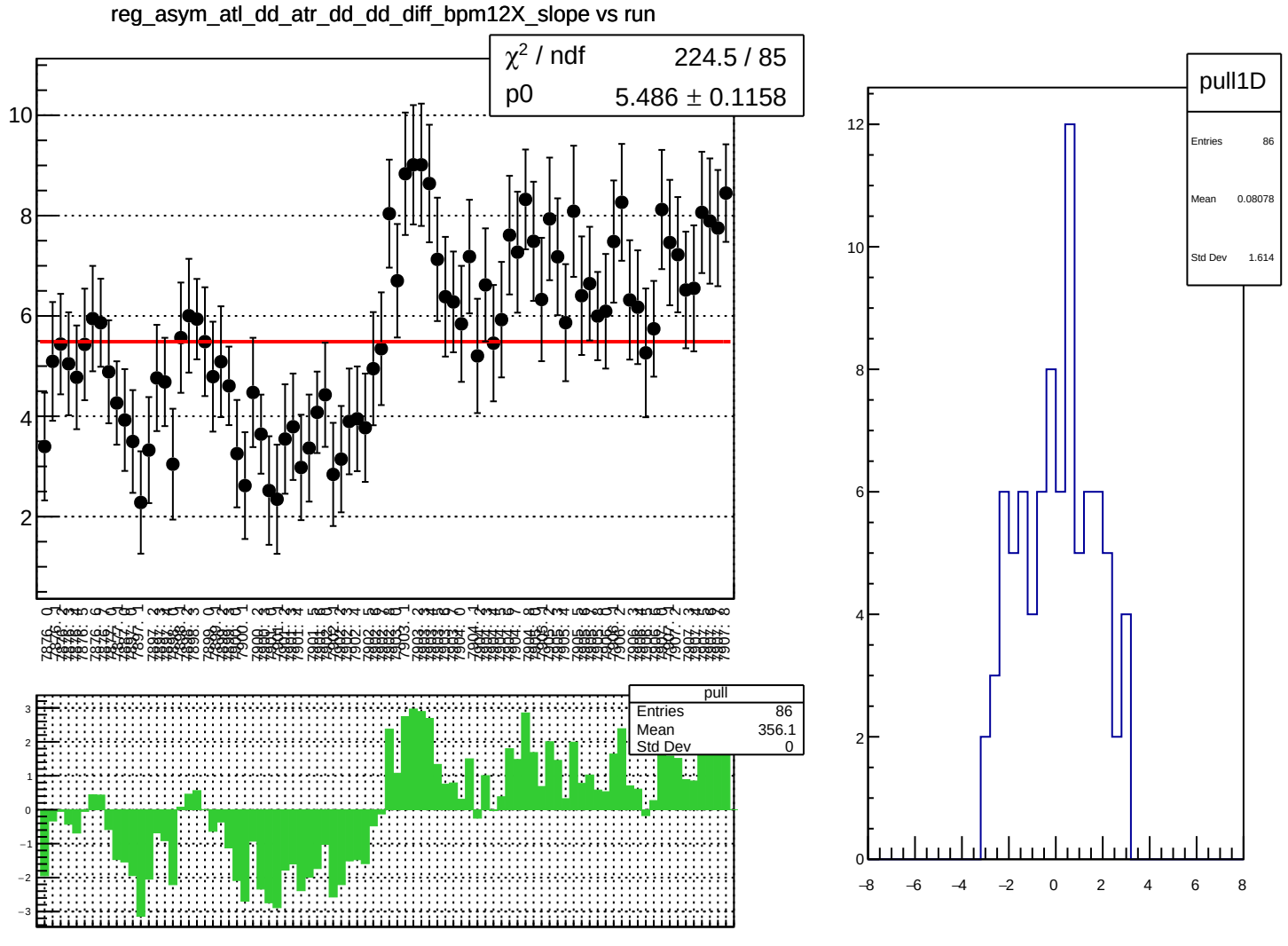

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 49.31 / 85
p0 17.99 ± 2.638
pull
Entries 86
Mean 73.01
Std Dev 0
pull1D
Entries 86
Mean 0.2267
Std Dev 0.7225

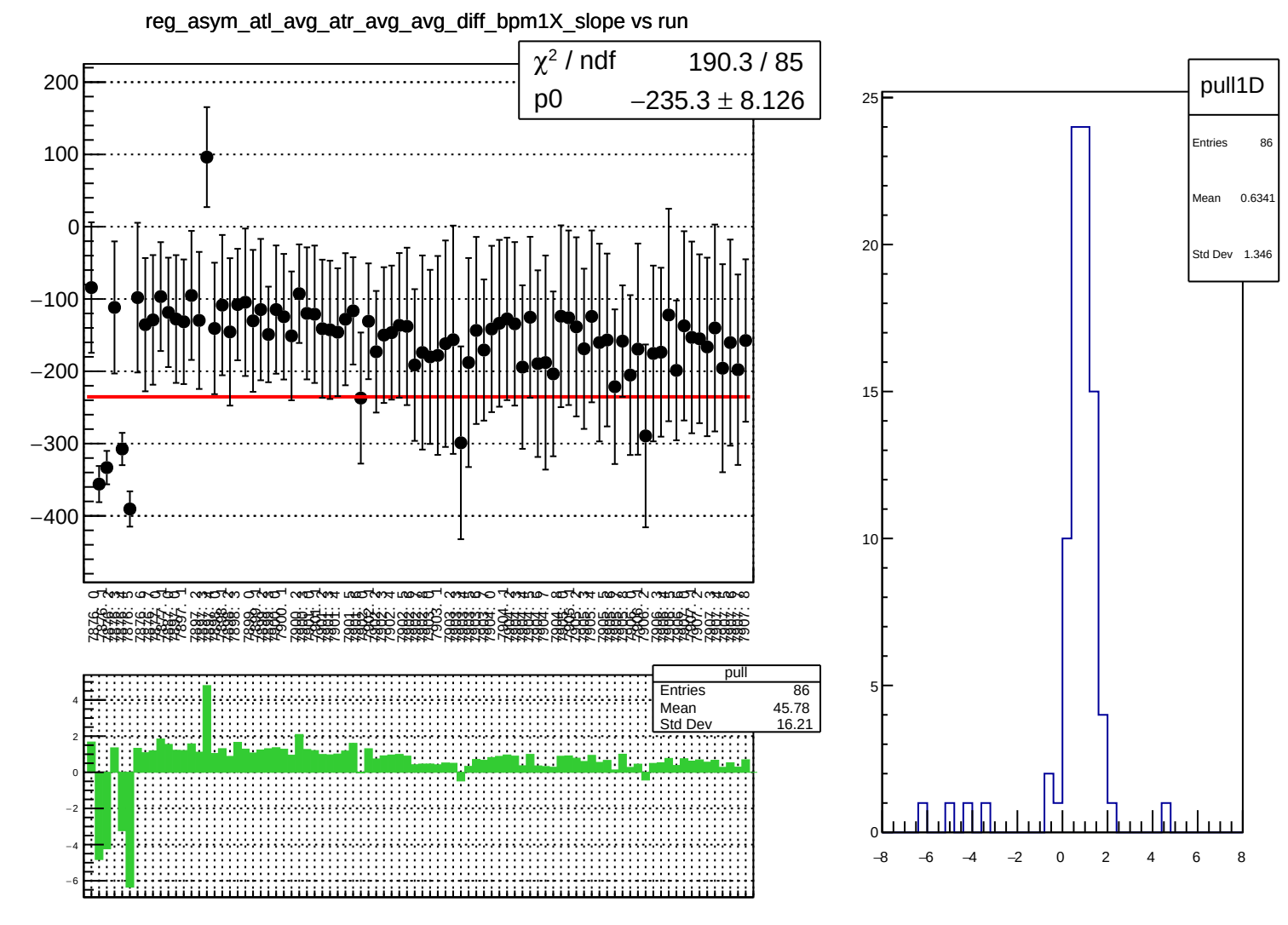

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.79 / 85
p0 3.792 ± 2.804
pull
Entries 86
Mean 106.7
Std Dev 0

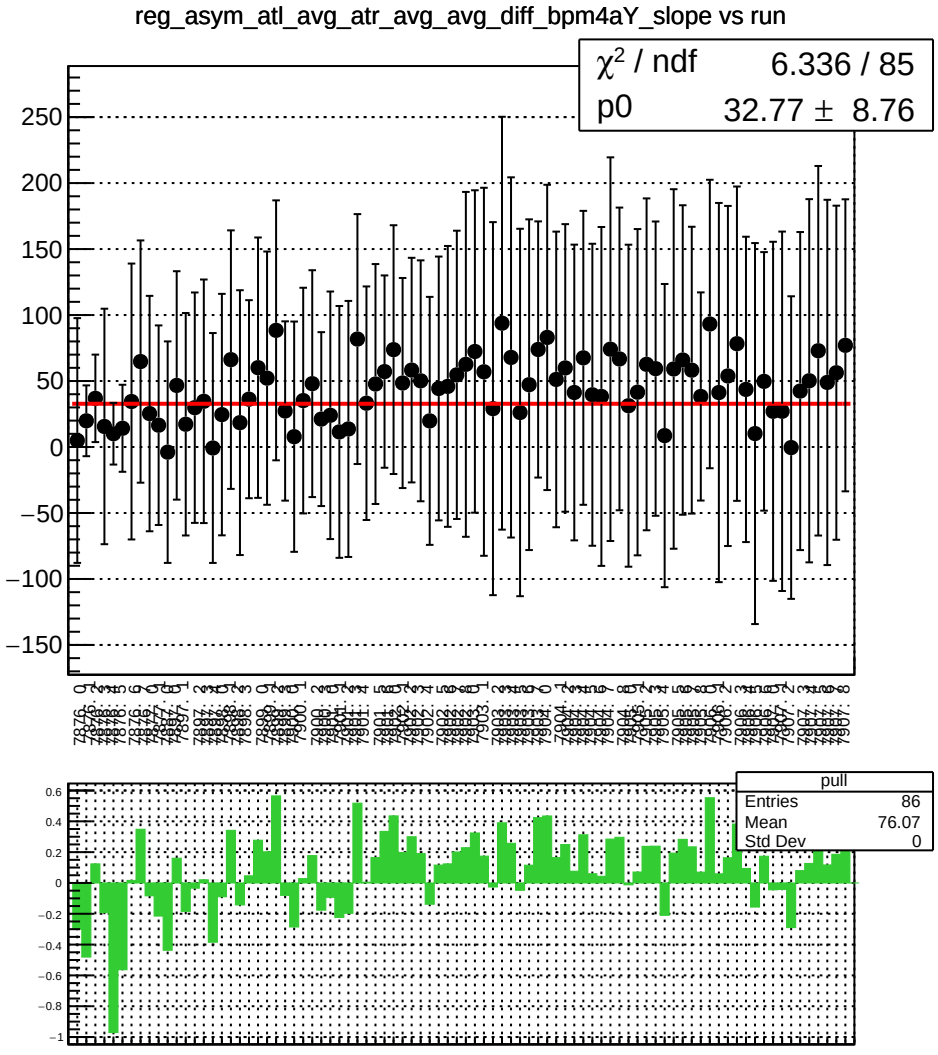

pull1D
Entries 86
Mean −0.04203
Std Dev 0.6066

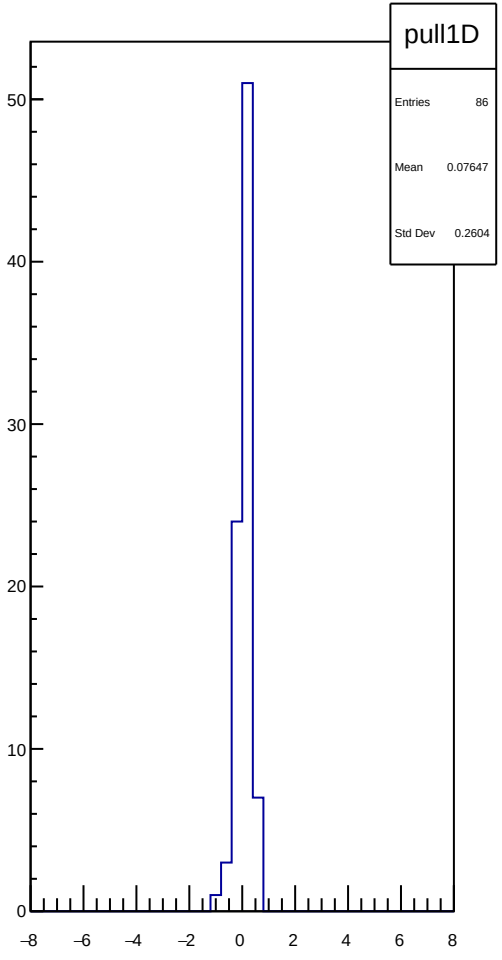

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.52 / 85
p0 51.31 ± 2.127
pull
Entries 86
Mean 69.68
Std Dev 0
pull1D
Entries 86
Mean −0.2711
Std Dev 0.7408

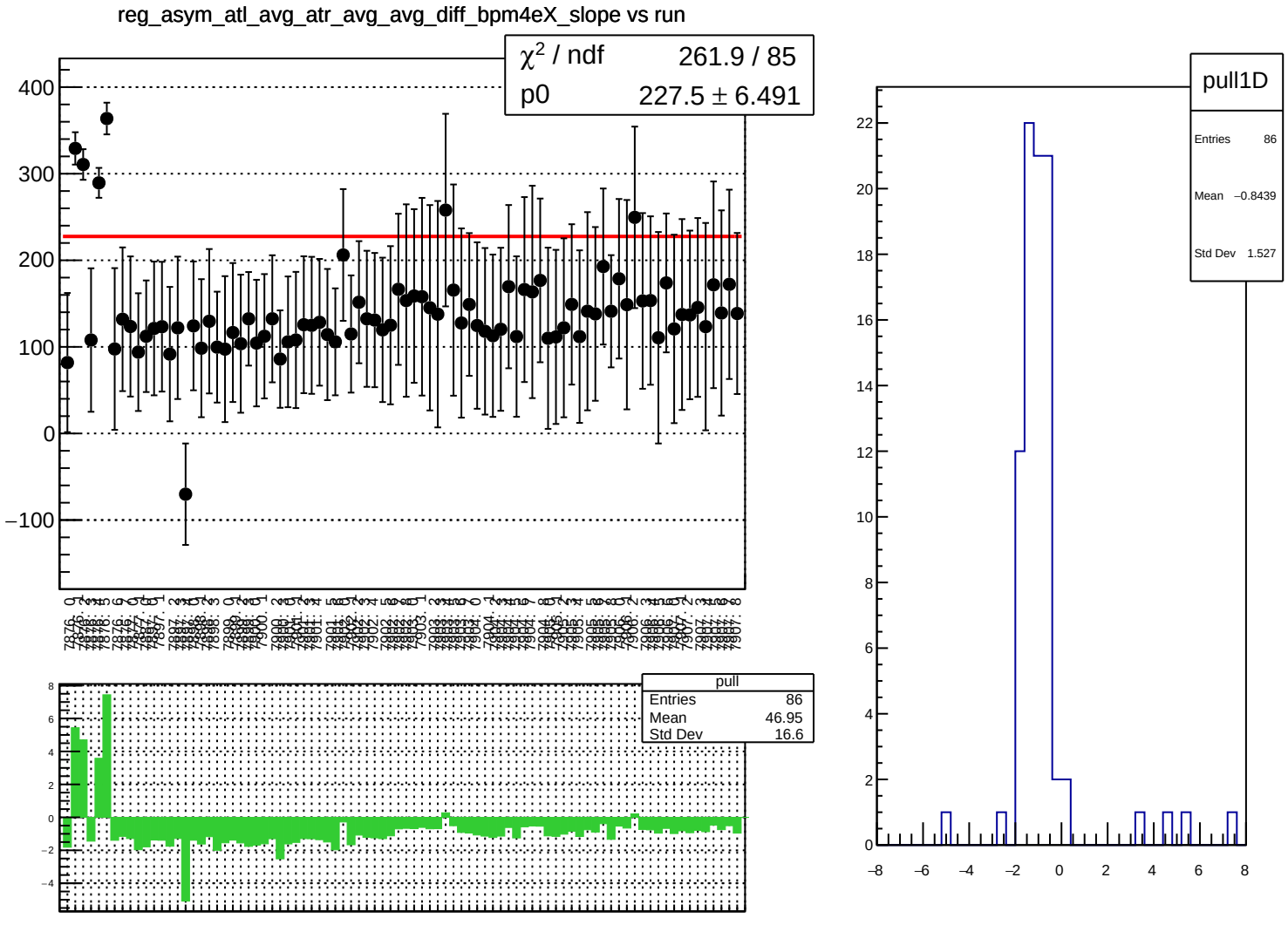

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.19 / 85
p0 −15.73 ± 3.463
pull
Entries 86
Mean 228.3
Std Dev 0
pull1D
Entries 86
Mean −0.00156
Std Dev 0.5623

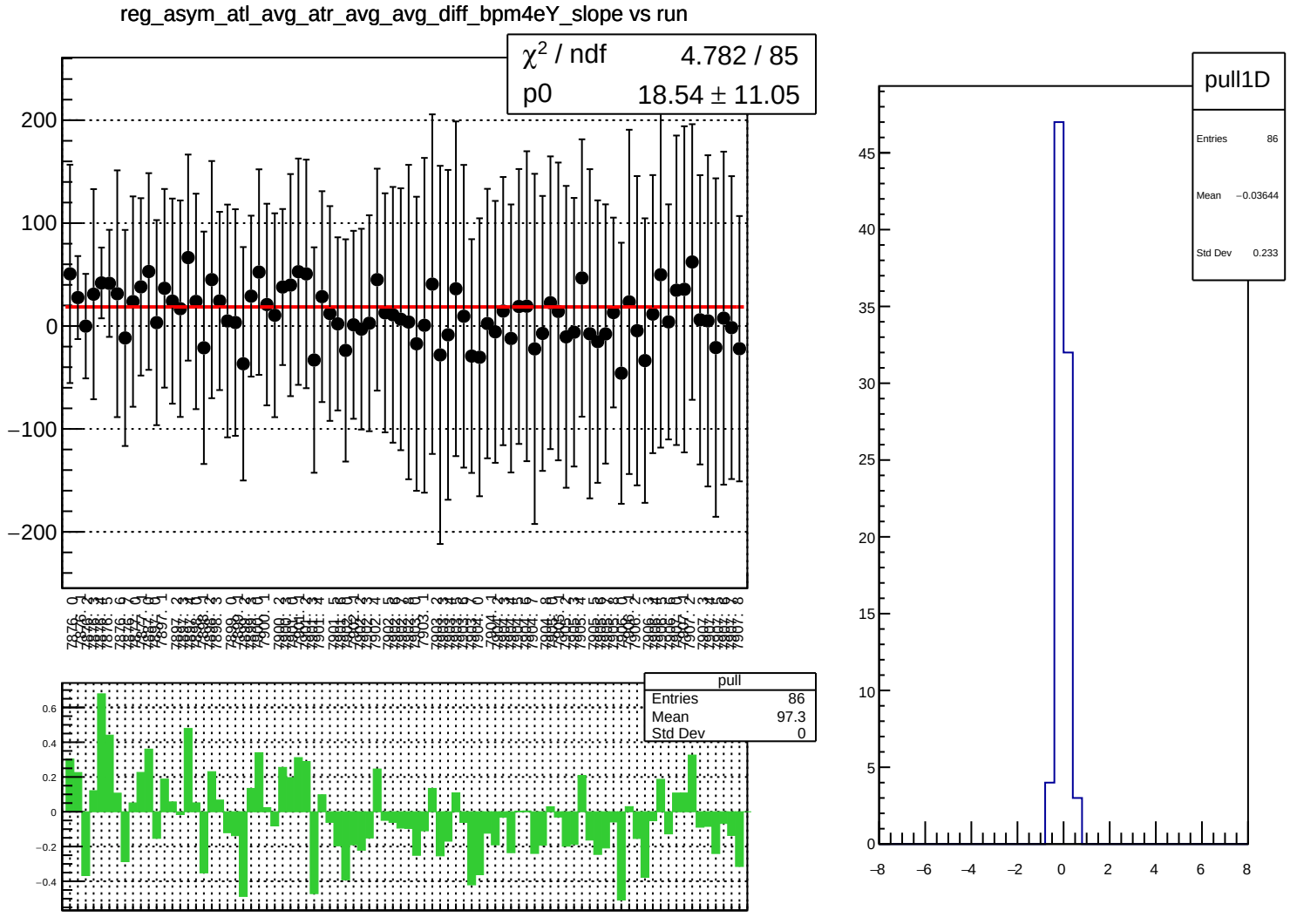

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 224.5 / 85
p0 5.486 ± 0.1158
pull
Entries 86
Mean 356.1
Std Dev 0
pull1D
Entries 86
Mean 0.08078
Std Dev 1.614

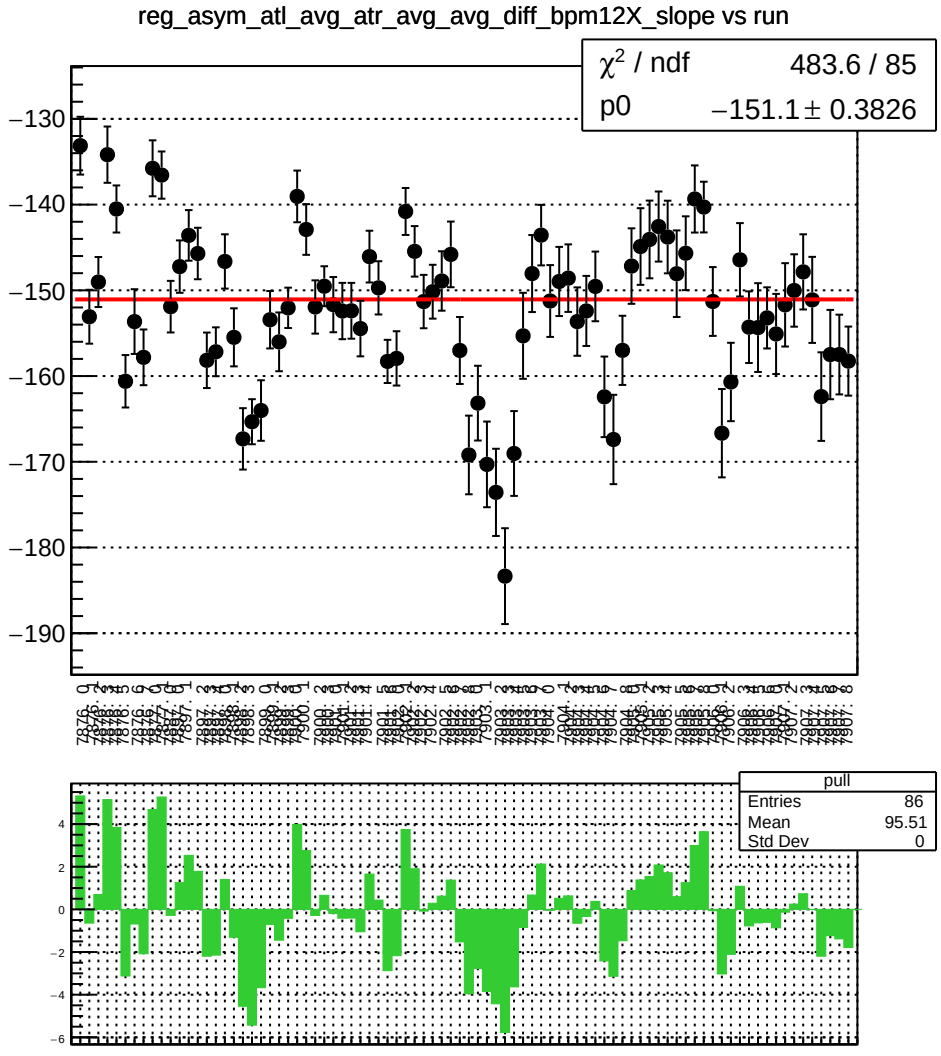

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 190.3 / 85
p0 −235.3 ± 8.126
pull
Entries 86
Mean 45.78
Std Dev 16.21
pull1D
Entries 86
Mean 0.6341
Std Dev 1.346

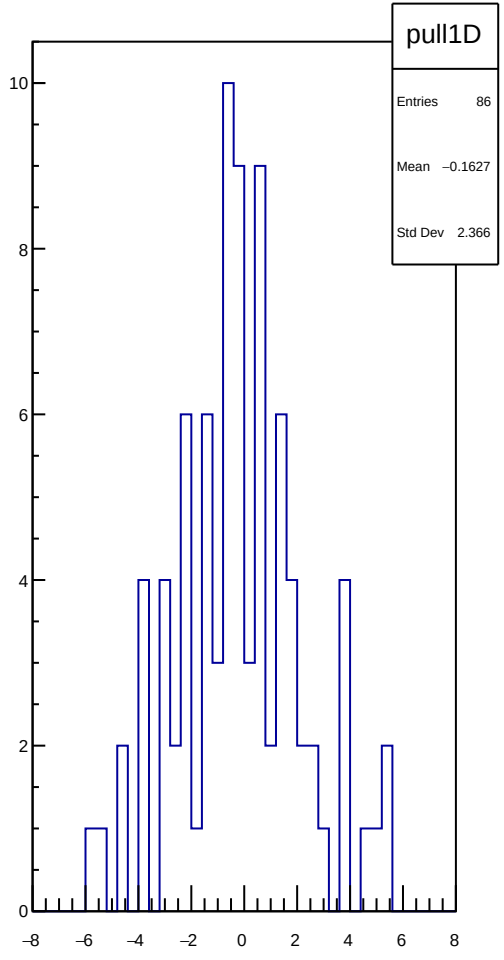

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.336 / 85
p0 32.77 ± 8.76
pull
Entries 86
Mean 76.07
Std Dev 0

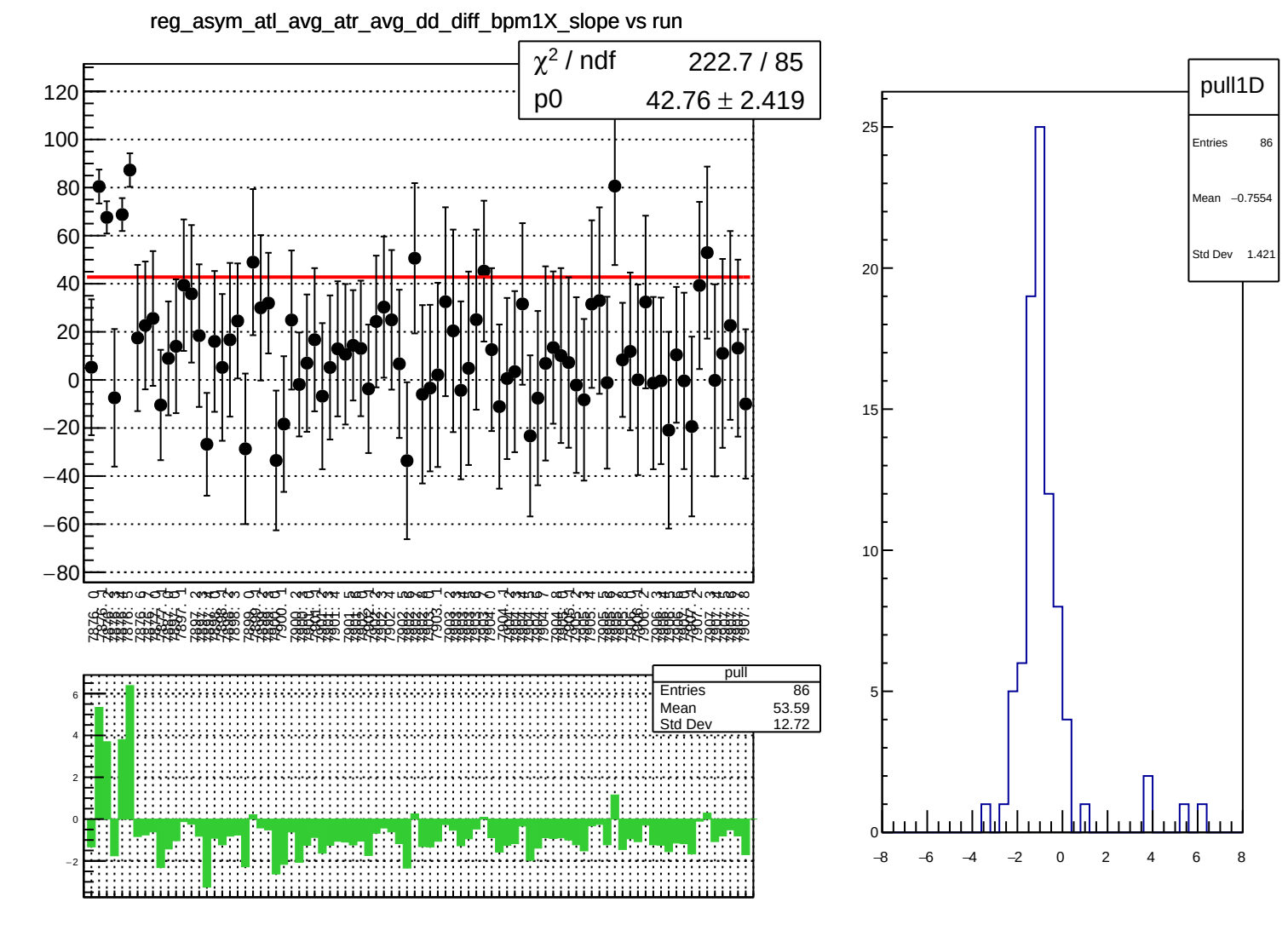

pull1D
Entries 86
Mean 0.07647
Std Dev 0.2604

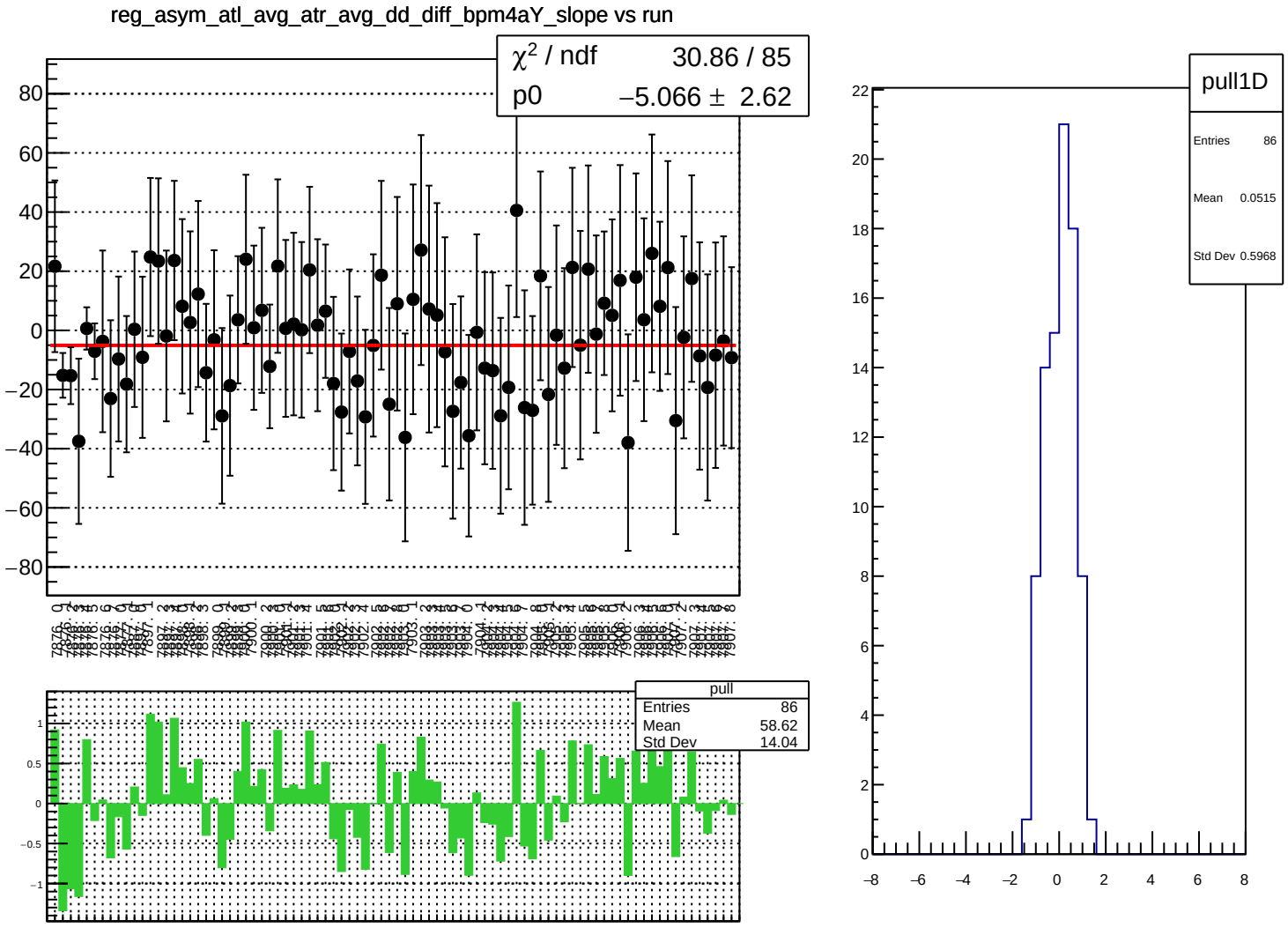

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 261.9 / 85
p0 227.5 ± 6.491
pull
Entries 86
Mean 46.95
Std Dev 16.6
pull1D
Entries 86
Mean −0.8439
Std Dev 1.527

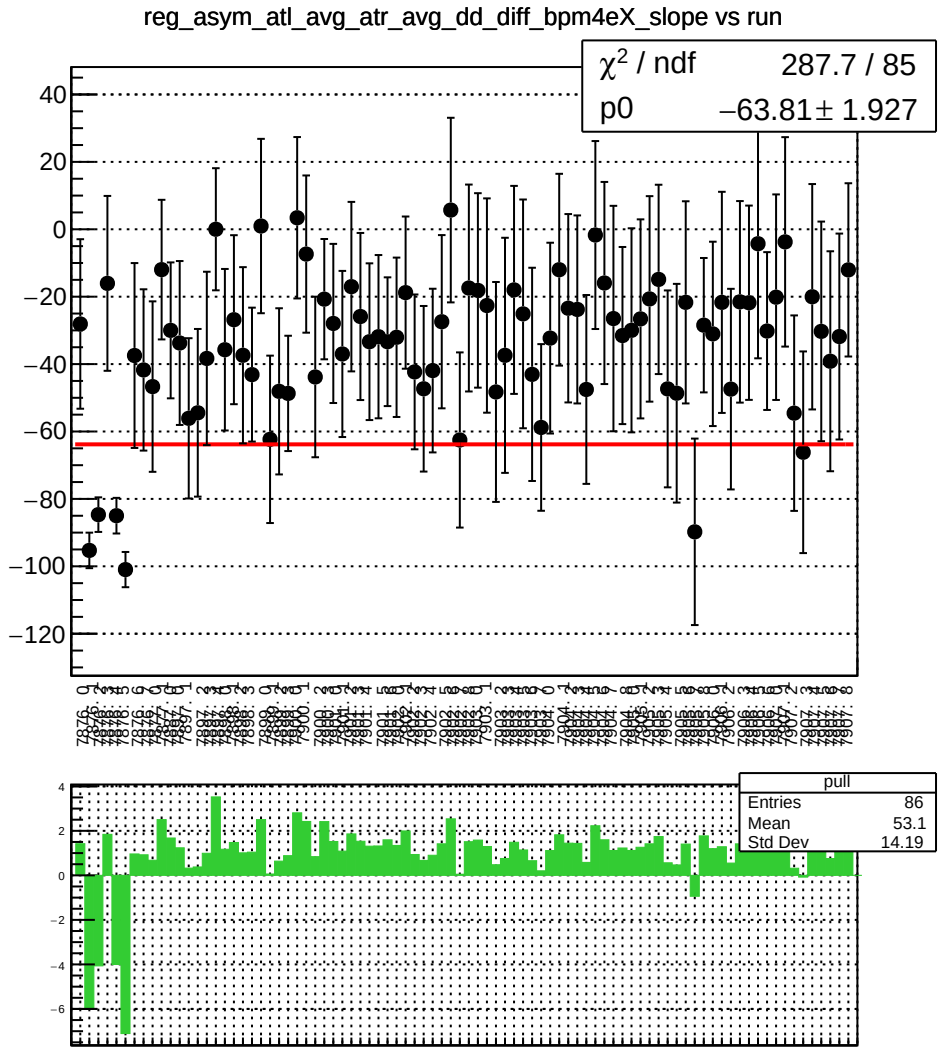

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.782 / 85
p0 18.54 ± 11.05
200
100
0
−100
−200
pull
Entries 86
Mean 97.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 86
Mean −0.03644
Std Dev 0.233
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

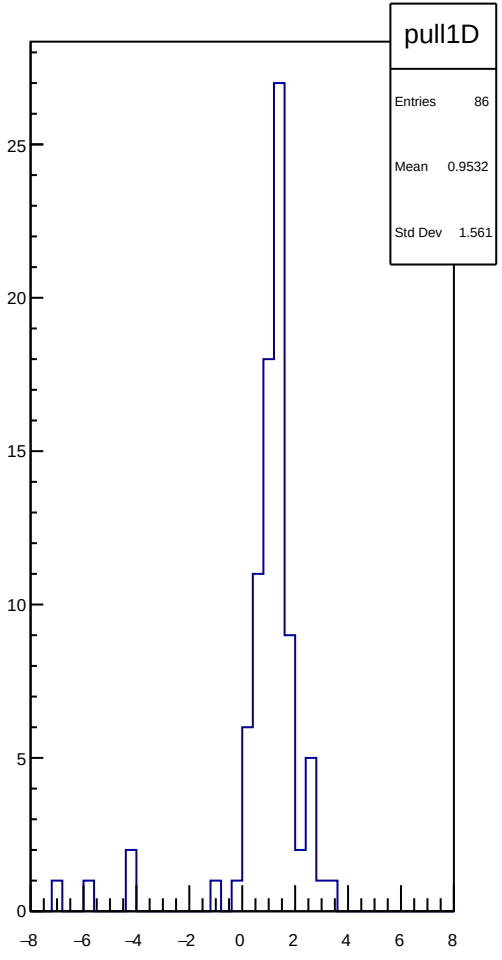

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 483.6 / 85
p0 −151.1 ± 0.3826
−130
−140
−150
−160
−170
−180
−190
pull
Entries 86
Mean 95.51
Std Dev 0
4
2
0
−2
−4
−6

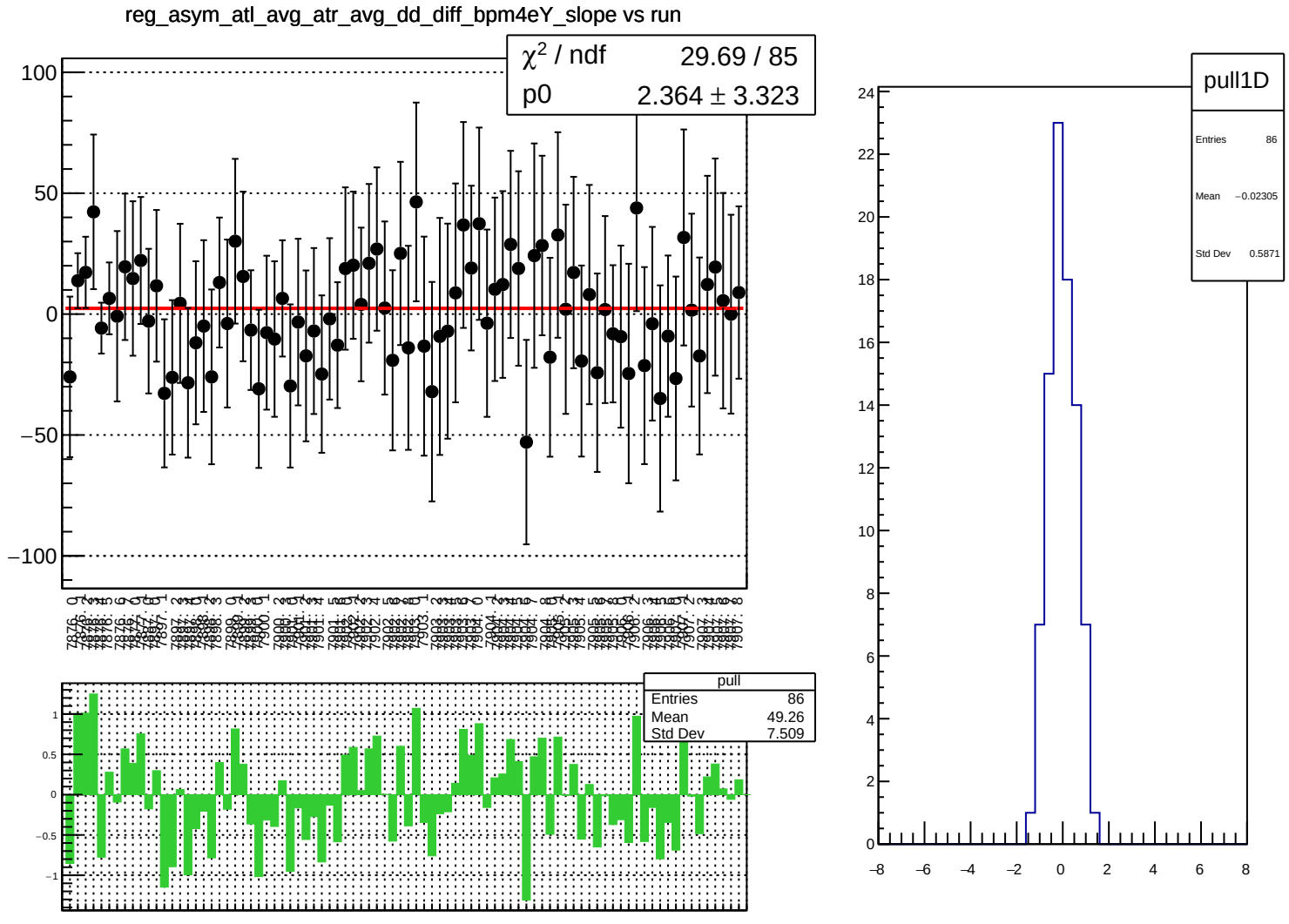

pull1D
Entries 86
Mean −0.1627
Std Dev 2.366
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

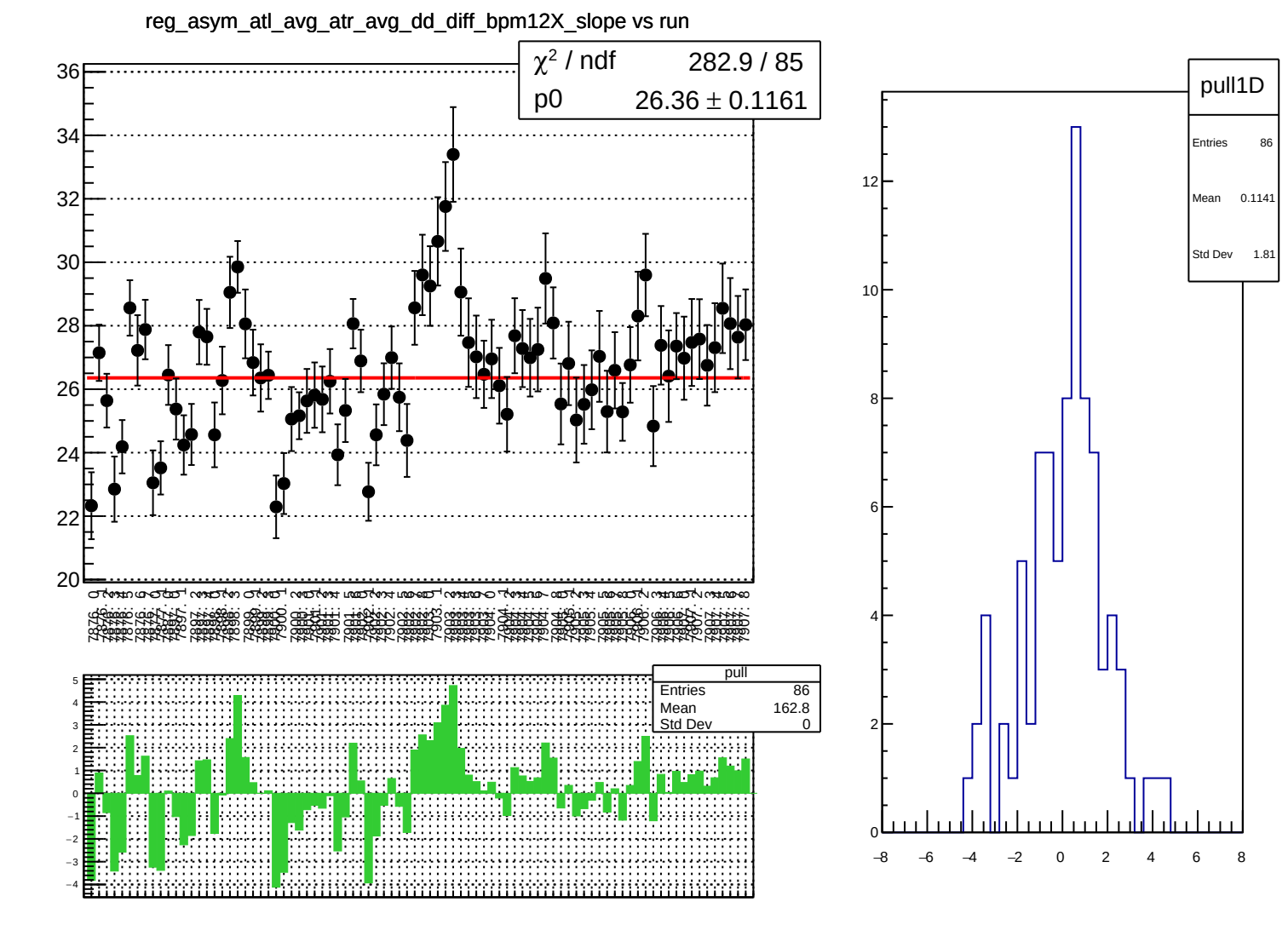

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 222.7 / 85
p0 42.76 ± 2.419
pull
Entries 86
Mean 53.59
Std Dev 12.72
pull1D
Entries 86
Mean −0.7554
Std Dev 1.421

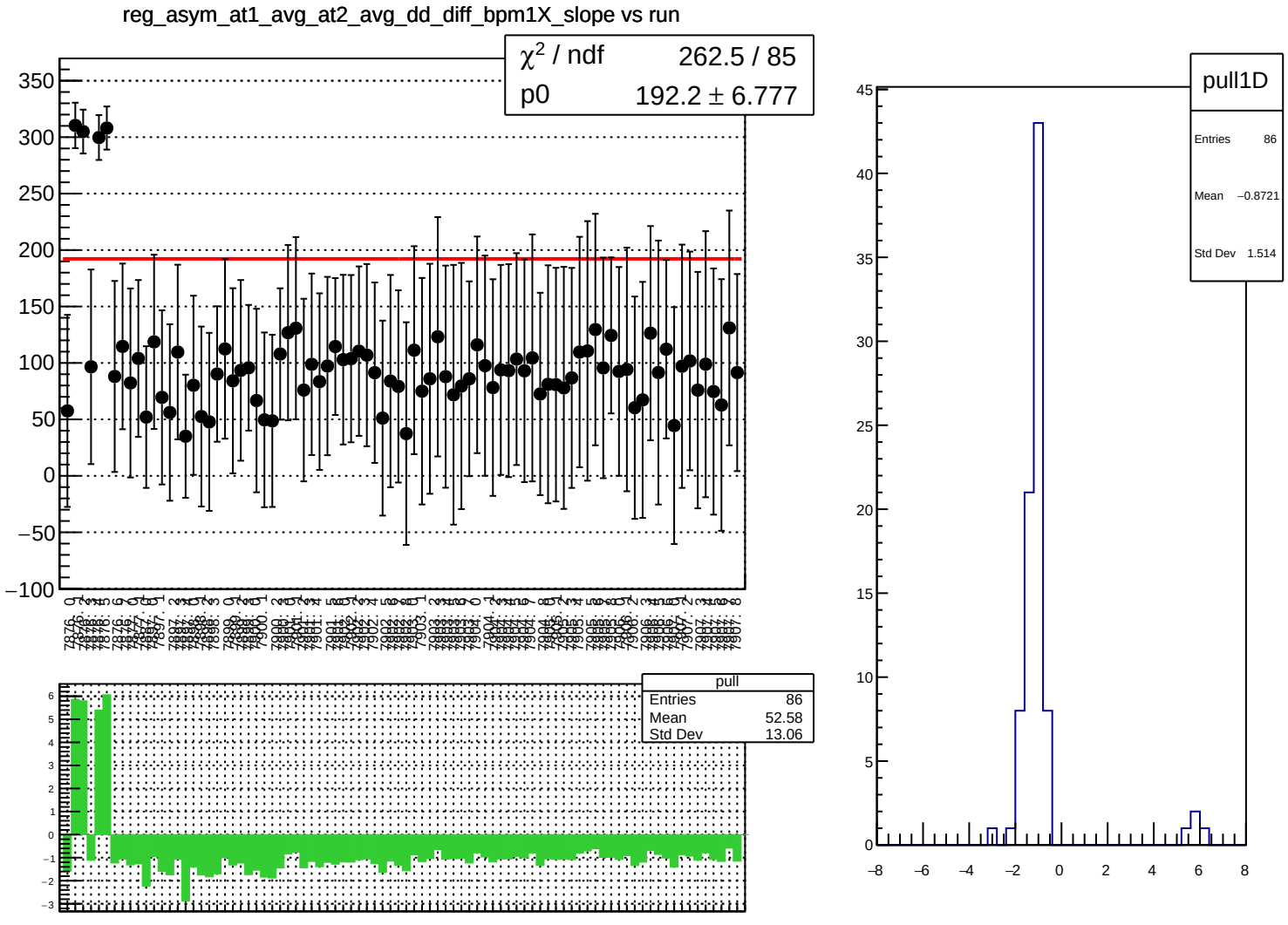

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.86 / 85
p0 −5.066 ± 2.62
pull
Entries 86
Mean 58.62
Std Dev 14.04
pull1D
Entries 86
Mean 0.0515
Std Dev 0.5968

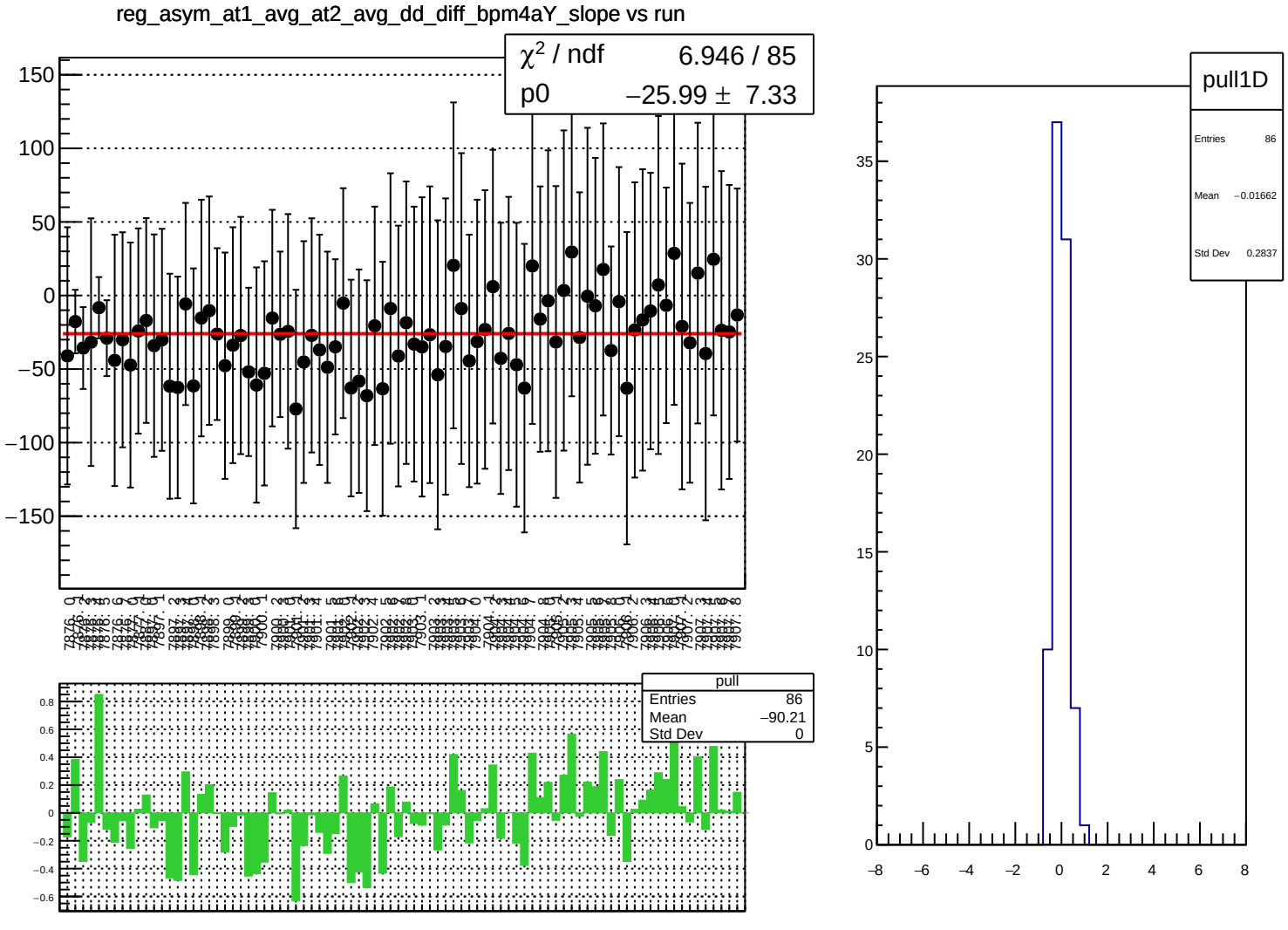

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 287.7 / 85
p0 −63.81 ± 1.927
pull
Entries 86
Mean 53.1
Std Dev 14.19

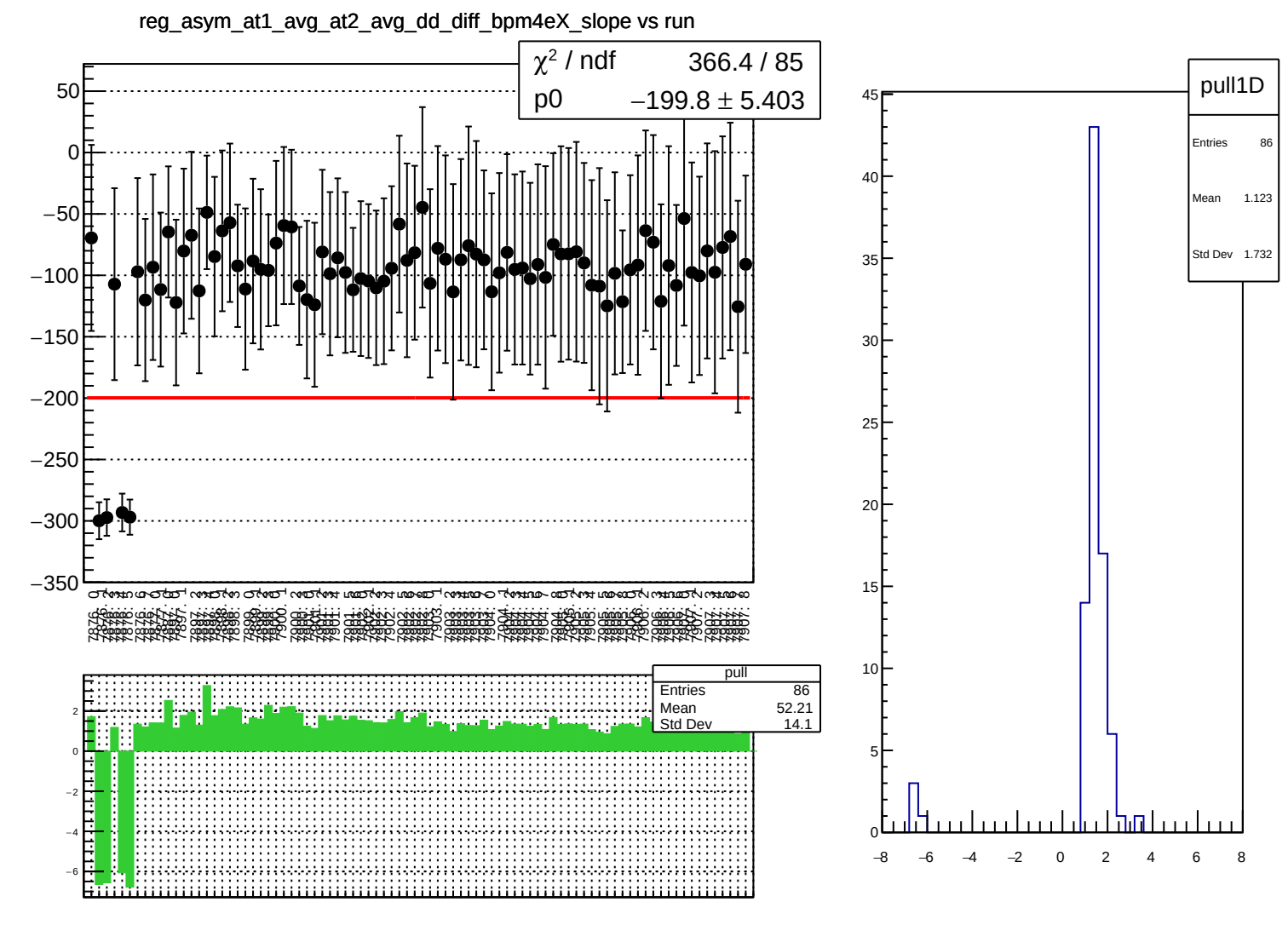

pull1D
Entries 86
Mean 0.9532
Std Dev 1.561

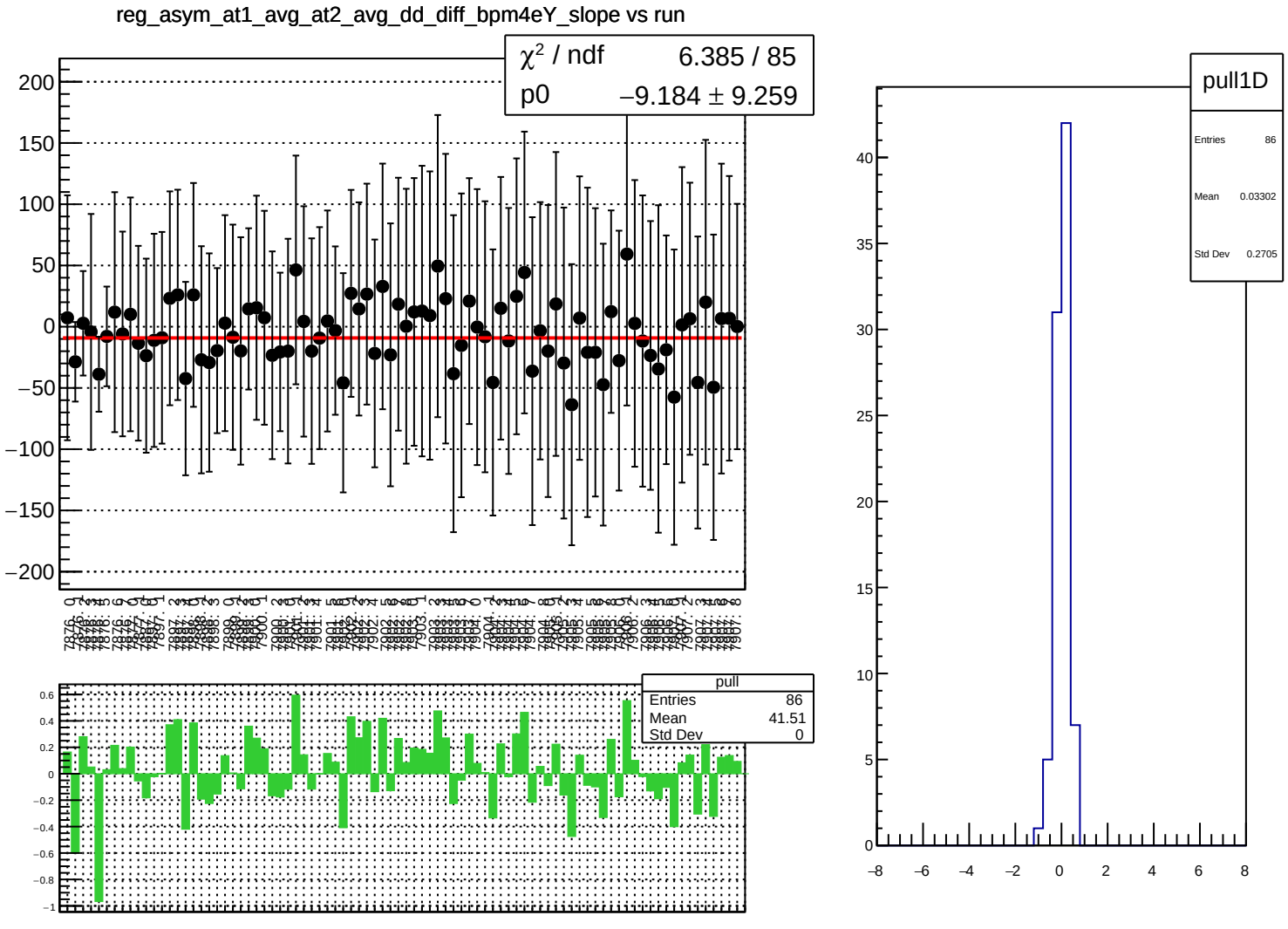

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.69 / 85
p0 2.364 ± 3.323
pull
Entries 86
Mean 49.26
Std Dev 7.509
pull1D
Entries 86
Mean −0.02305
Std Dev 0.5871

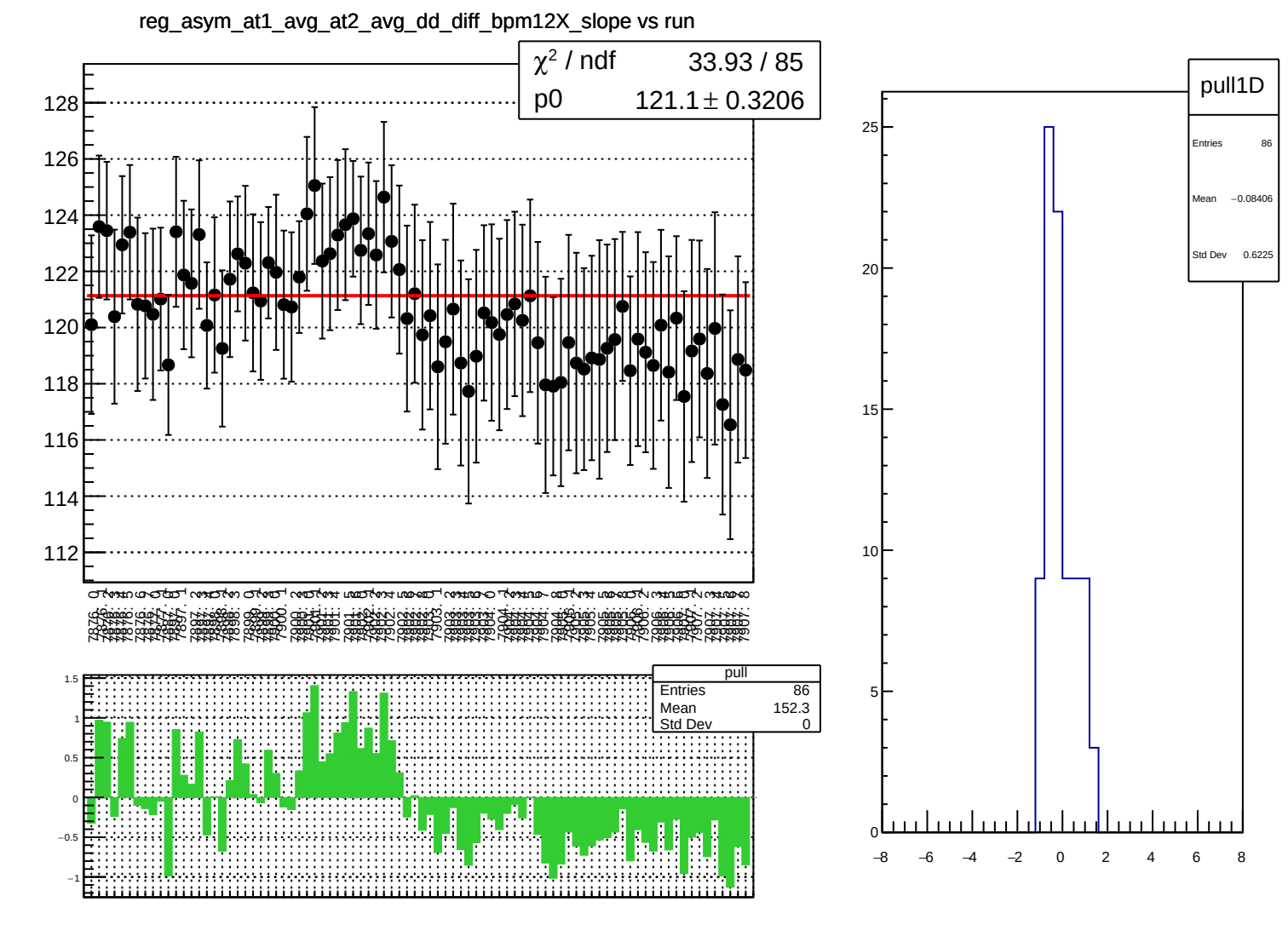

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 282.9 / 85
p0 26.36 ± 0.1161
pull
Entries 86
Mean 162.8
Std Dev 0
pull1D
Entries 86
Mean 0.1141
Std Dev 1.81

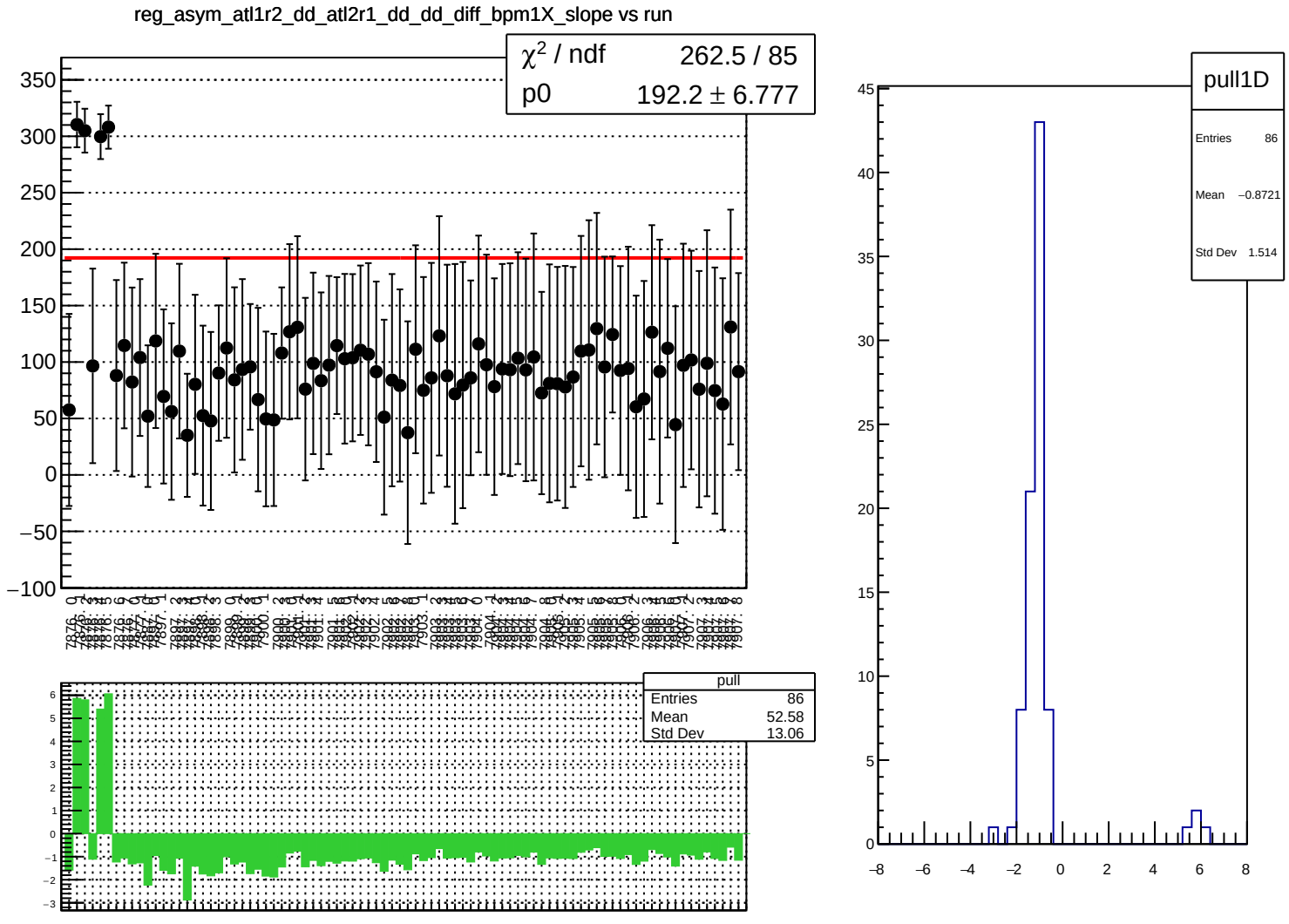

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 262.5 / 85
p0 192.2 ± 6.777
pull
Entries 86
Mean 52.58
Std Dev 13.06
pull1D
Entries 86
Mean −0.8721
Std Dev 1.514

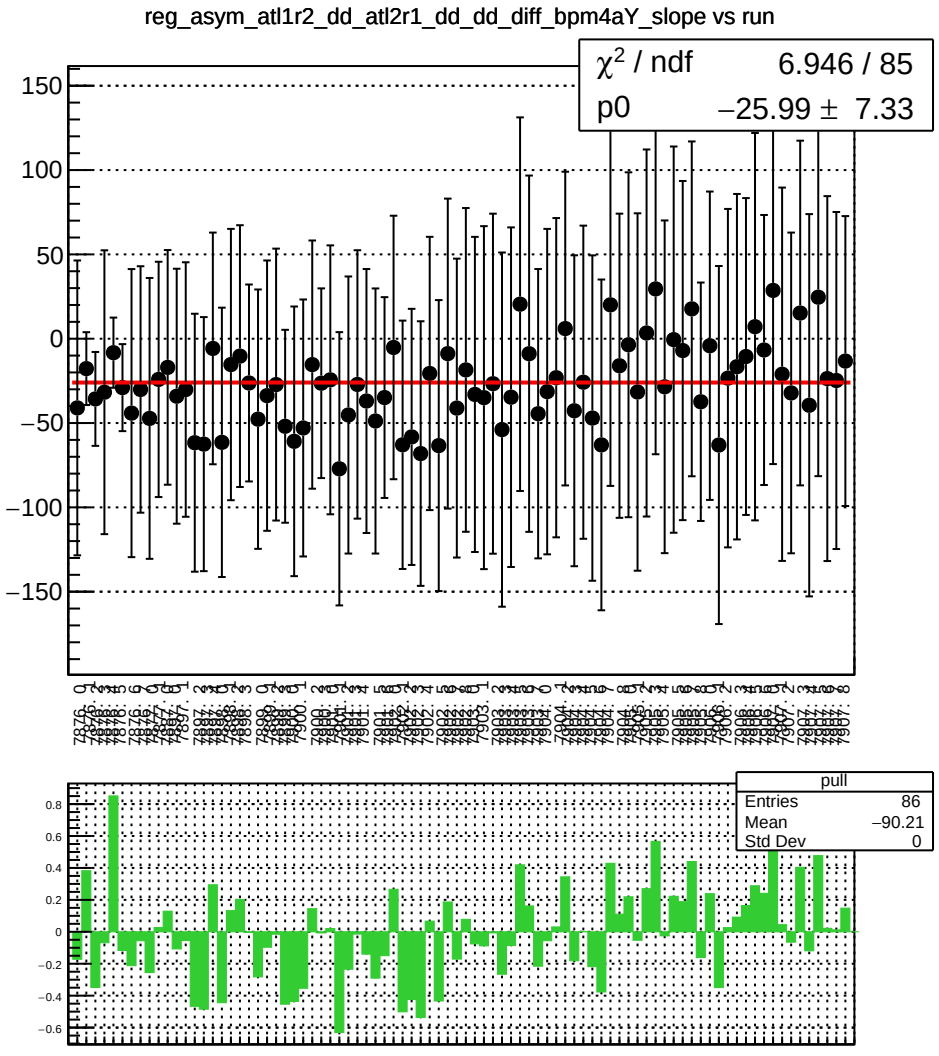

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.946 / 85
p0 −25.99 ± 7.33
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −90.21
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 86
Mean −0.01662
Std Dev 0.2837
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

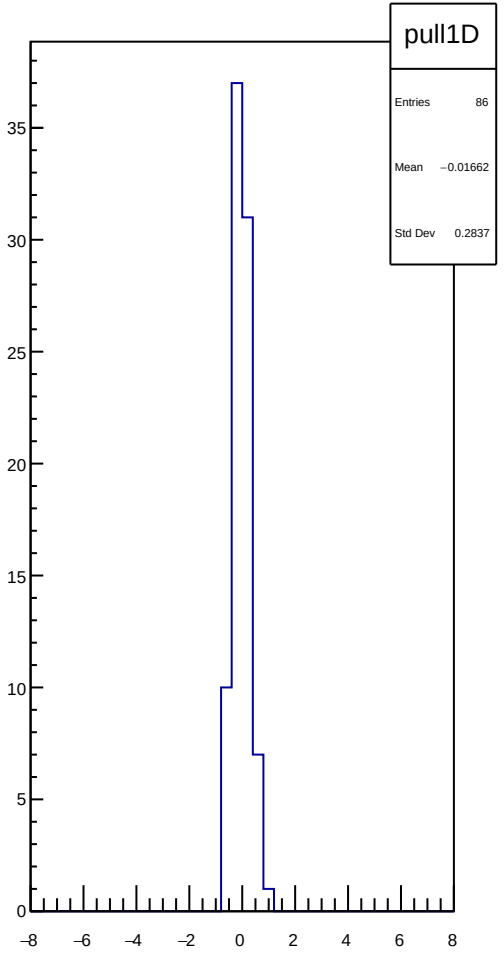

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 366.4 / 85
p0 −199.8 ± 5.403
pull
Entries 86
Mean 52.21
Std Dev 14.1
pull1D
Entries 86
Mean 1.123
Std Dev 1.732

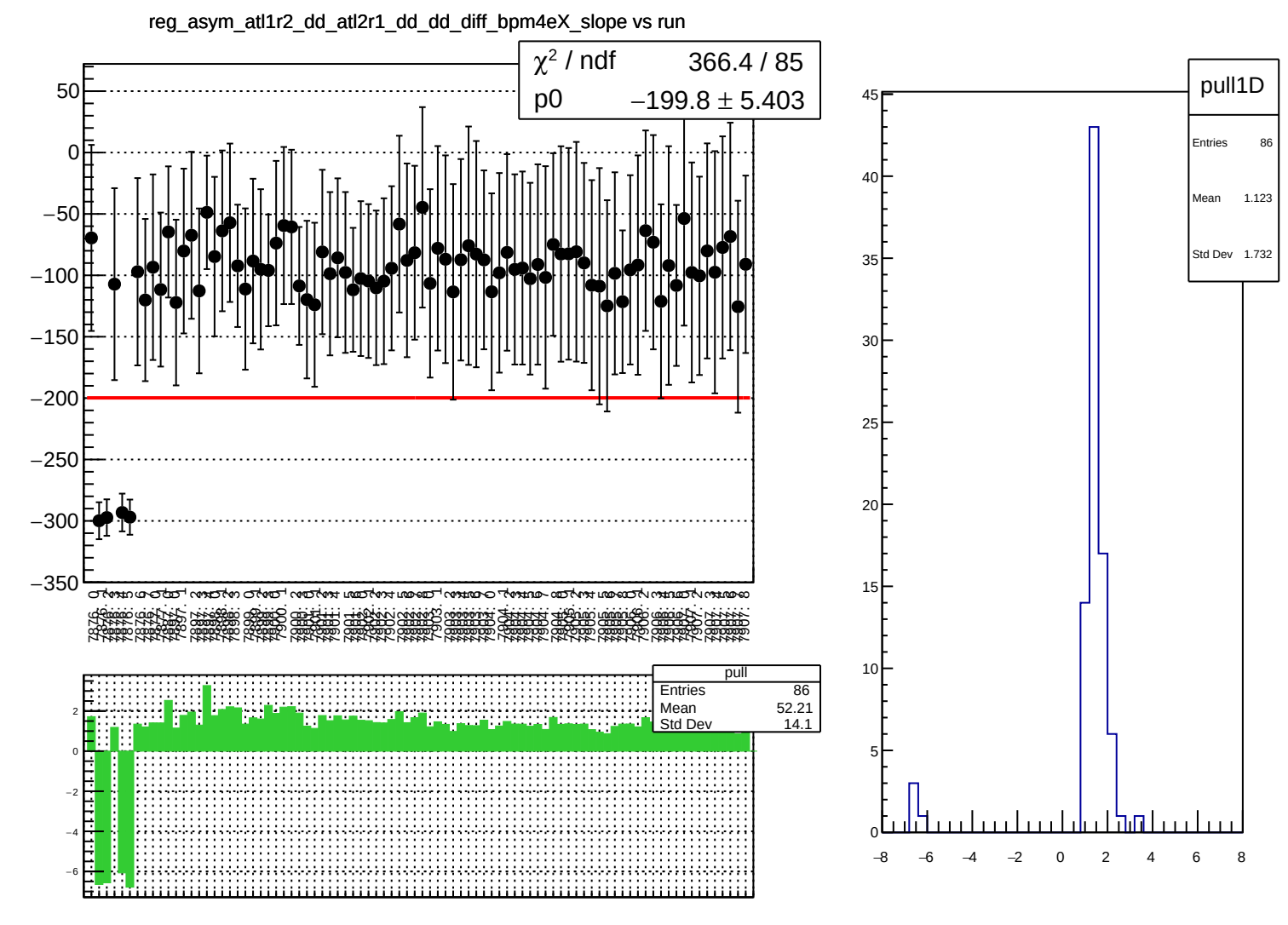

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.385 / 85
p0 −9.184 ± 9.259
pull
Entries 86
Mean 41.51
Std Dev 0
pull1D
Entries 86
Mean 0.03302
Std Dev 0.2705

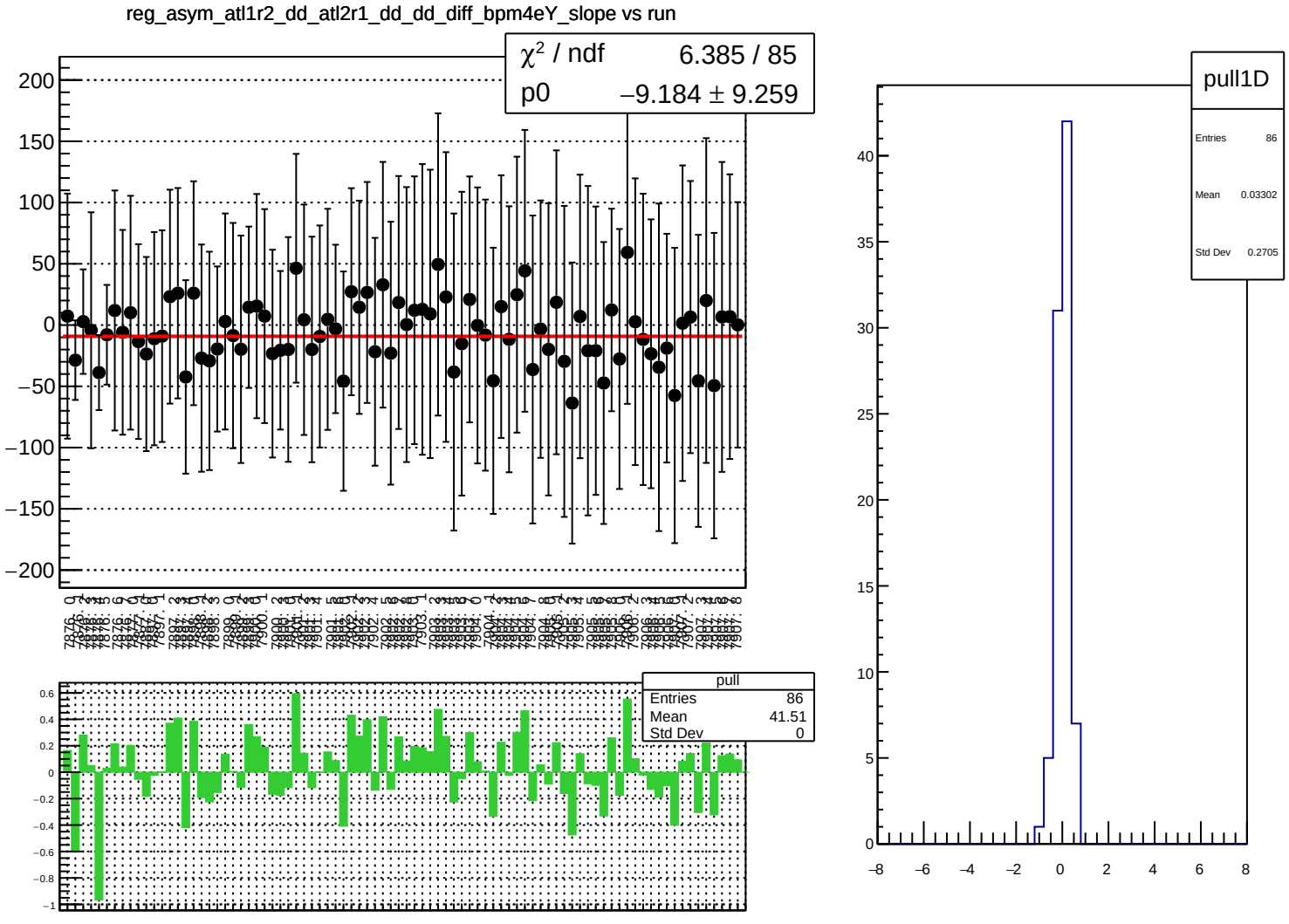

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 33.93 / 85
p0 121.1 ± 0.3206
pull
Entries 86
Mean 152.3
Std Dev 0
pull1D
Entries 86
Mean −0.08406
Std Dev 0.6225

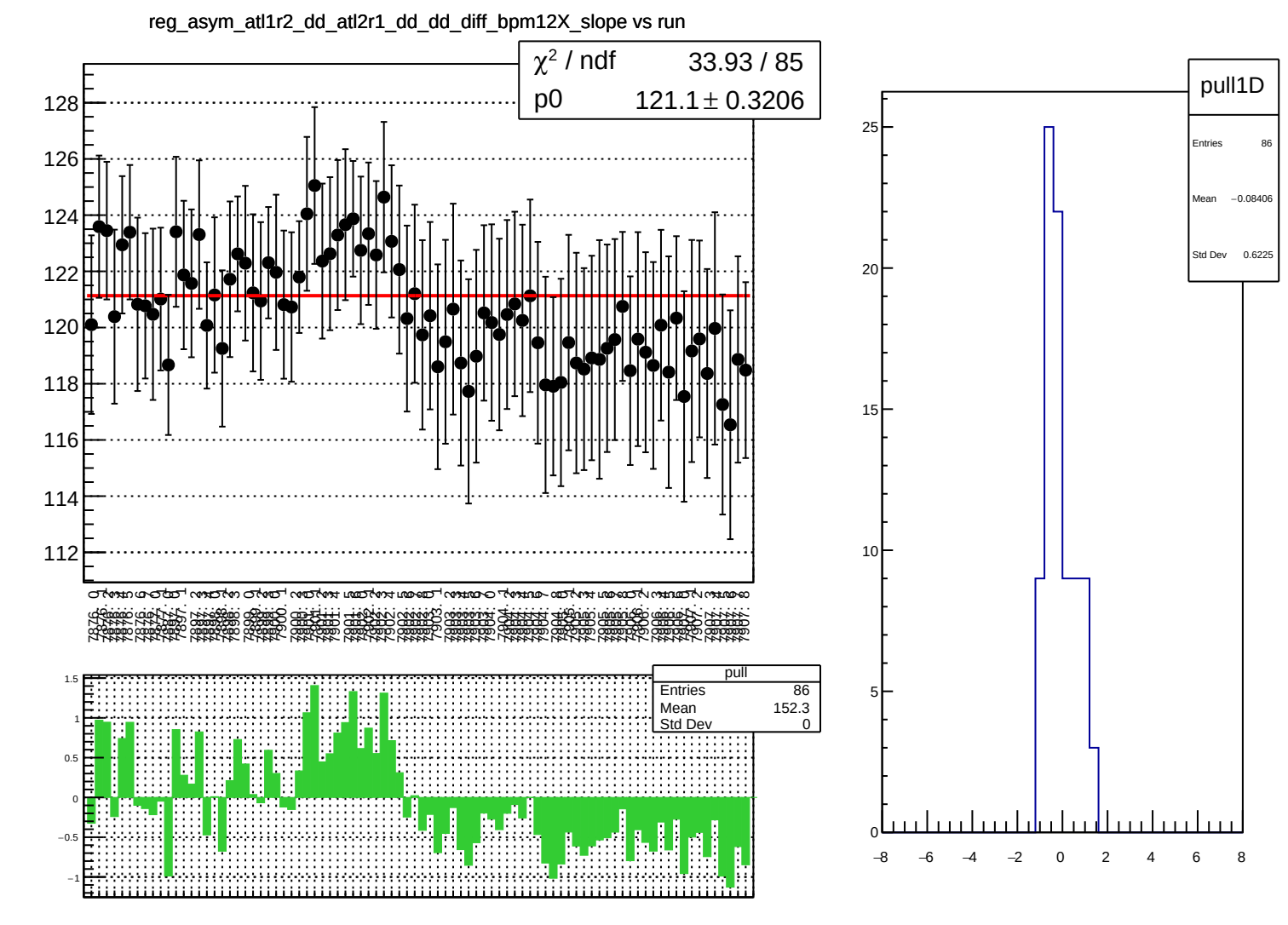

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 262.5 / 85
p0 192.2 ± 6.777
pull
Entries 86
Mean 52.58
Std Dev 13.06
pull1D
Entries 86
Mean −0.8721
Std Dev 1.514

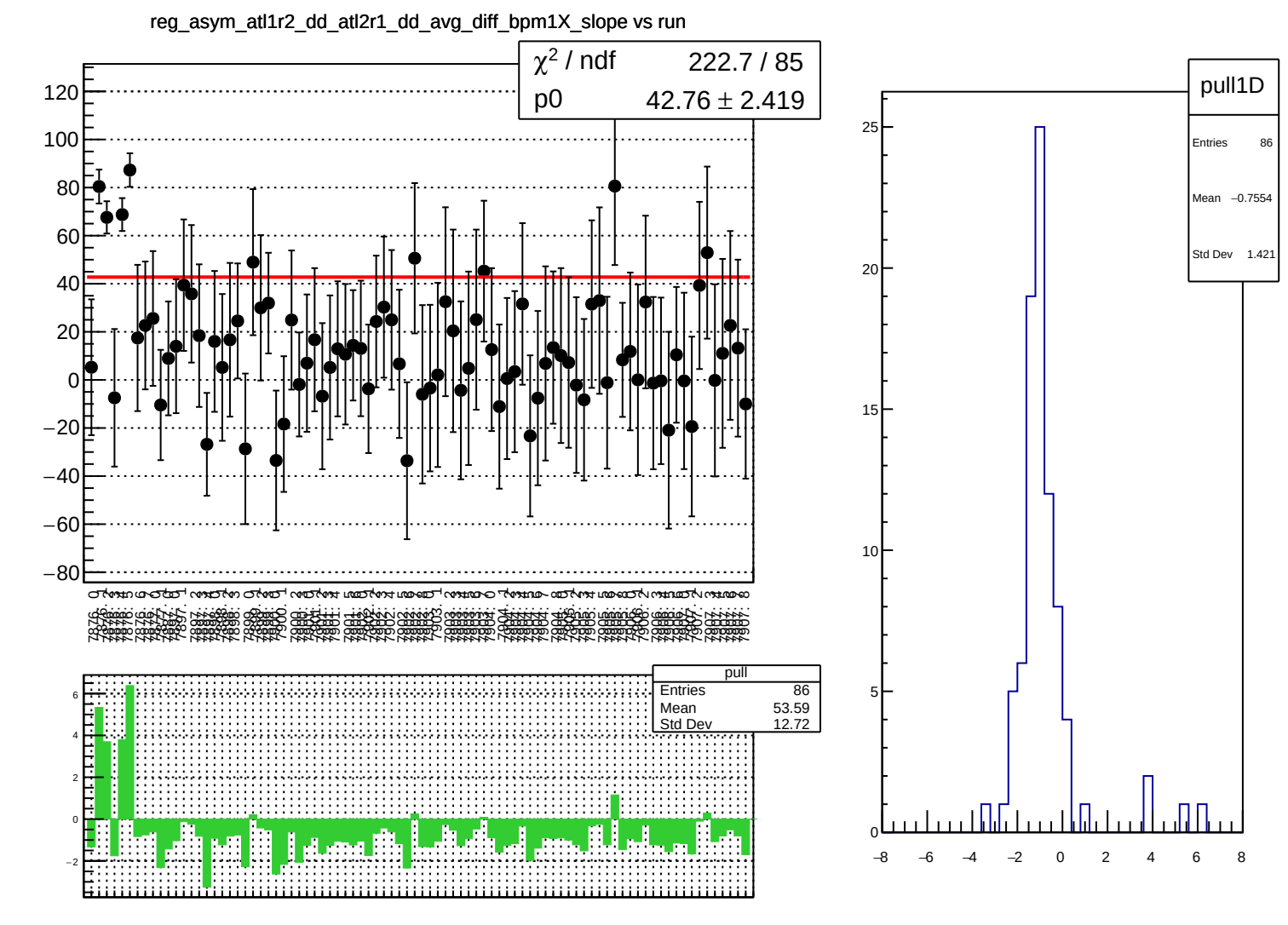

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.946 / 85
p0 −25.99 ± 7.33
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −90.21
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

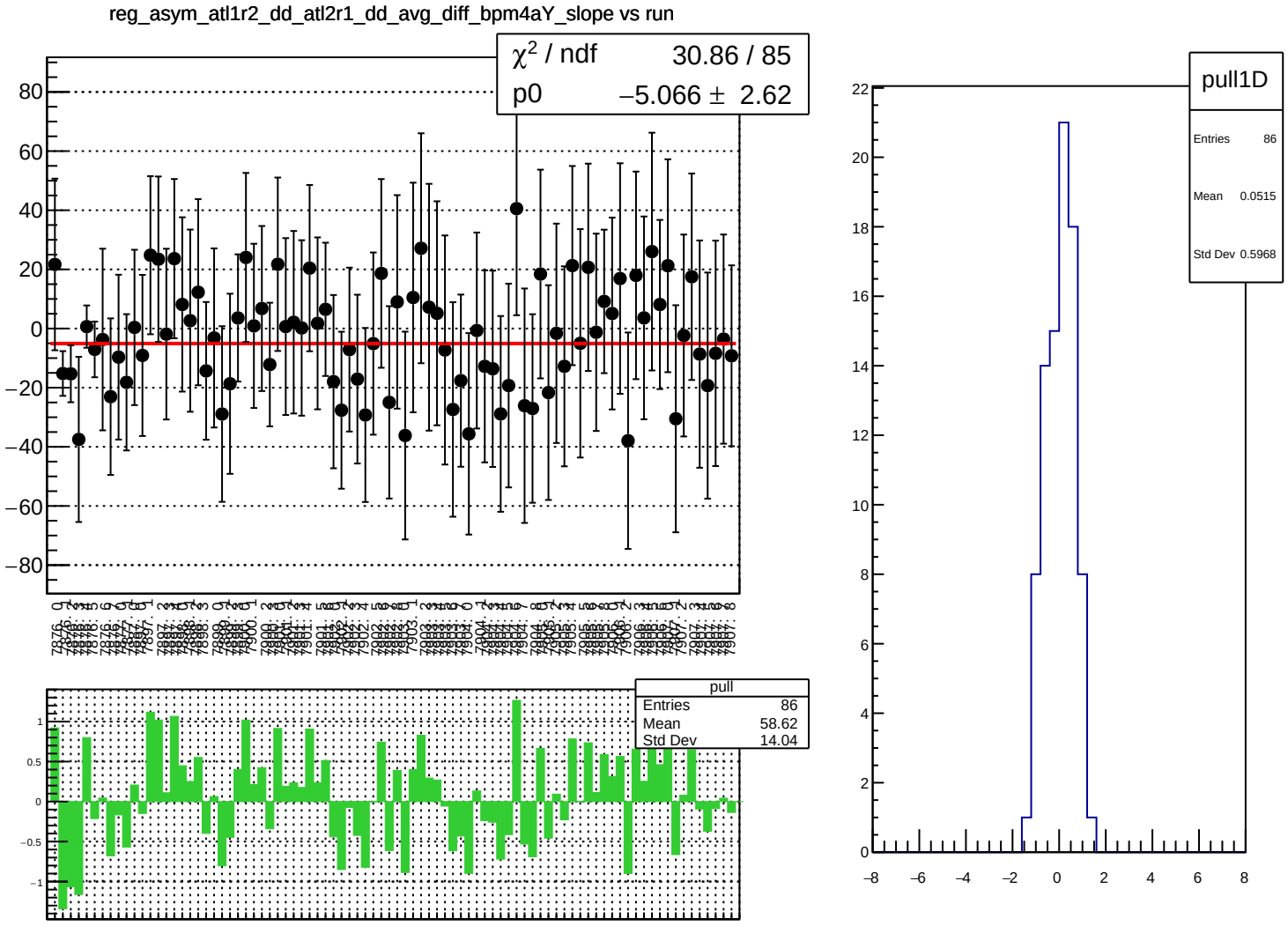

pull1D
Entries 86
Mean −0.01662
Std Dev 0.2837
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

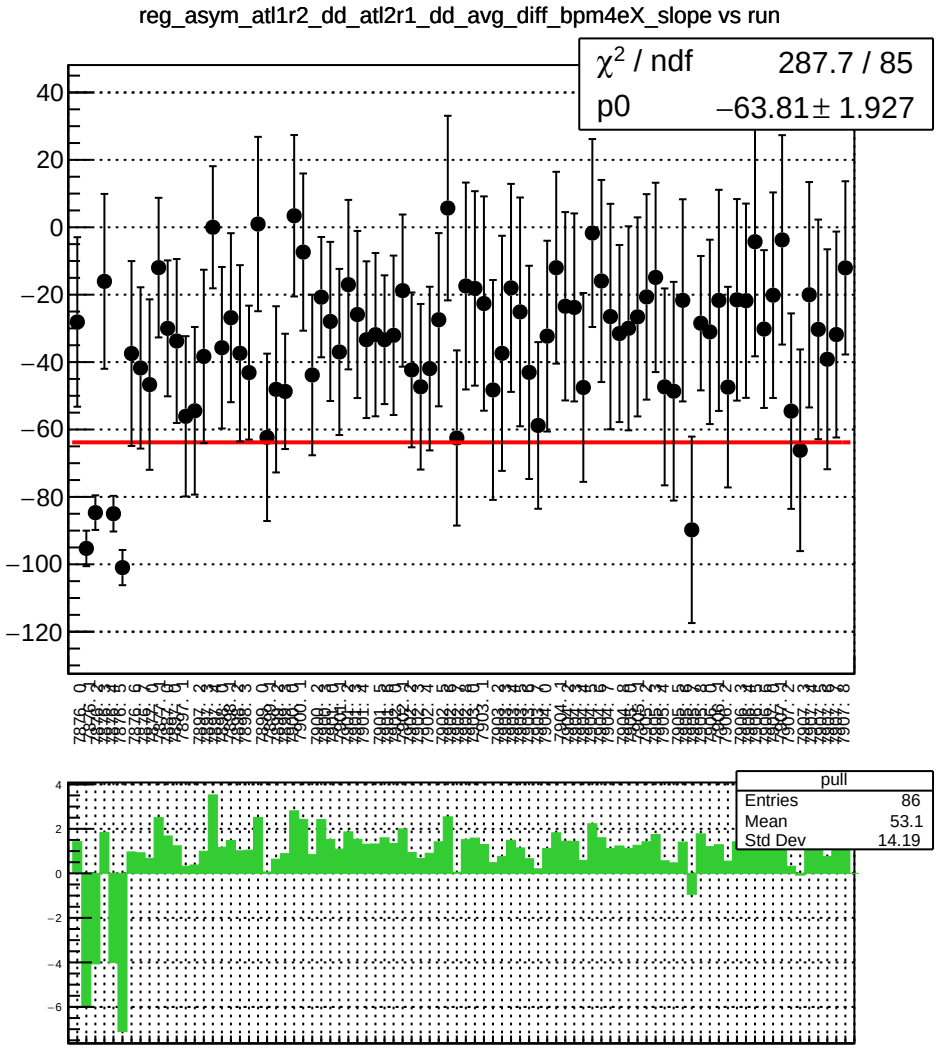

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 366.4 / 85
p0 −199.8 ± 5.403
pull
Entries 86
Mean 52.21
Std Dev 14.1
pull1D
Entries 86
Mean 1.123
Std Dev 1.732

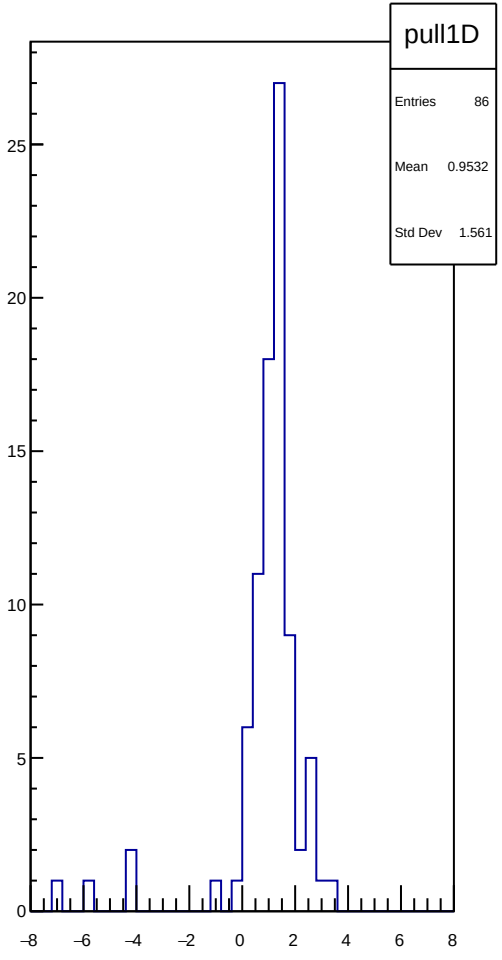

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.385 / 85
p0 −9.184 ± 9.259
pull
Entries 86
Mean 41.51
Std Dev 0
pull1D
Entries 86
Mean 0.03302
Std Dev 0.2705

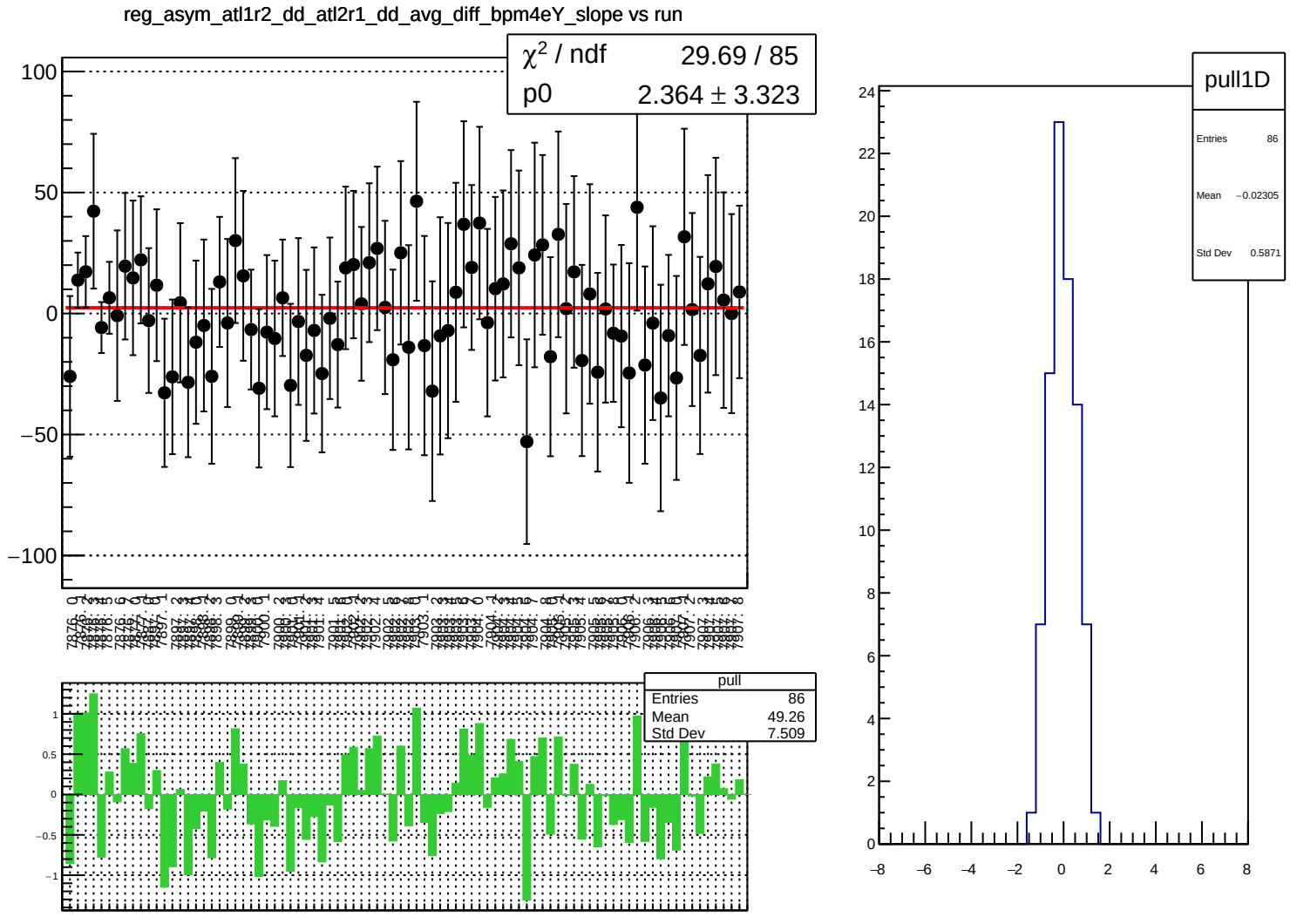

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 33.93 / 85
p0 121.1 ± 0.3206
pull
Entries 86
Mean 152.3
Std Dev 0
pull1D
Entries 86
Mean −0.08406
Std Dev 0.6225

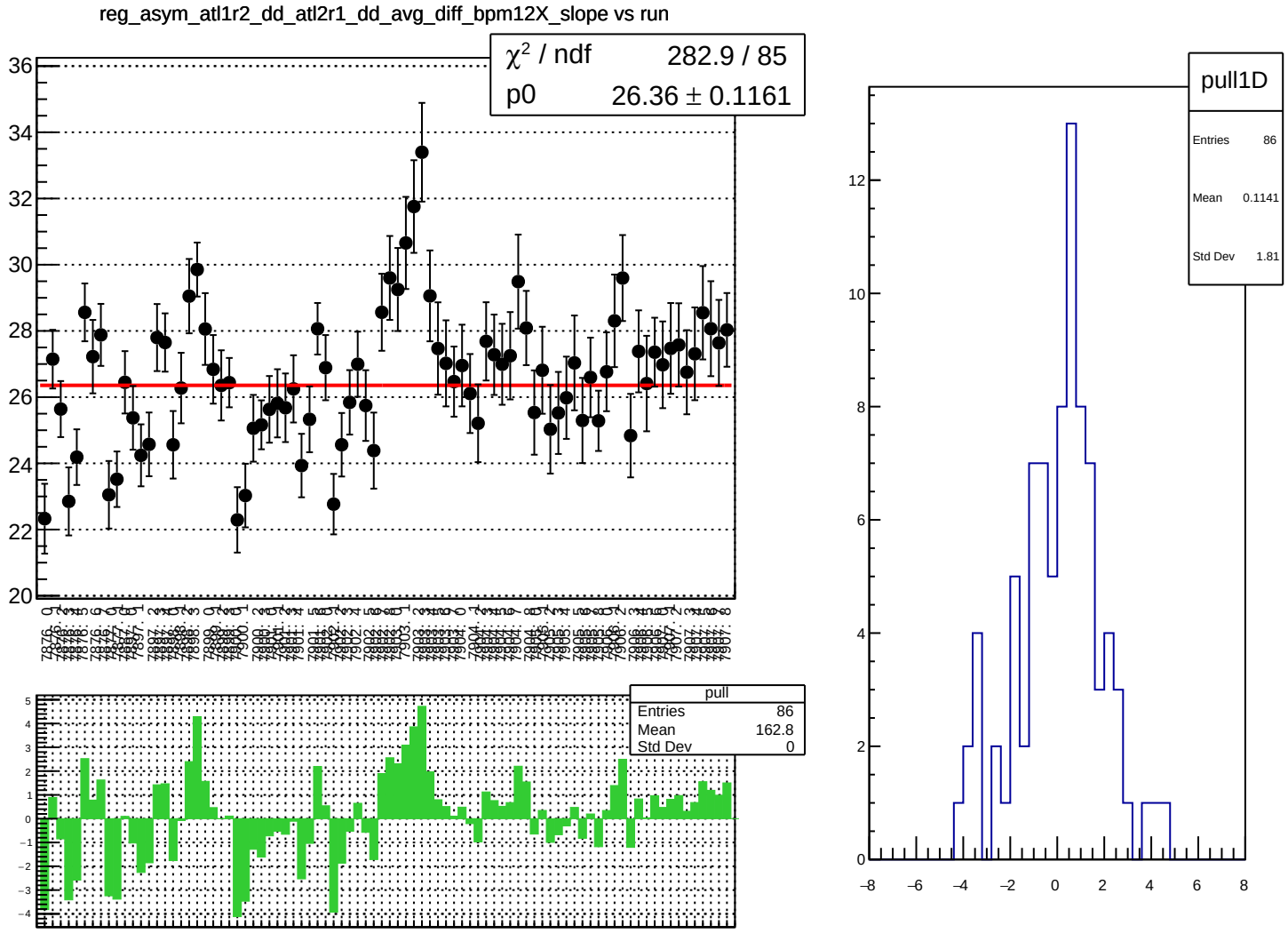

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 222.7 / 85
p0 42.76 ± 2.419
pull
Entries 86
Mean 53.59
Std Dev 12.72
pull1D
Entries 86
Mean −0.7554
Std Dev 1.421

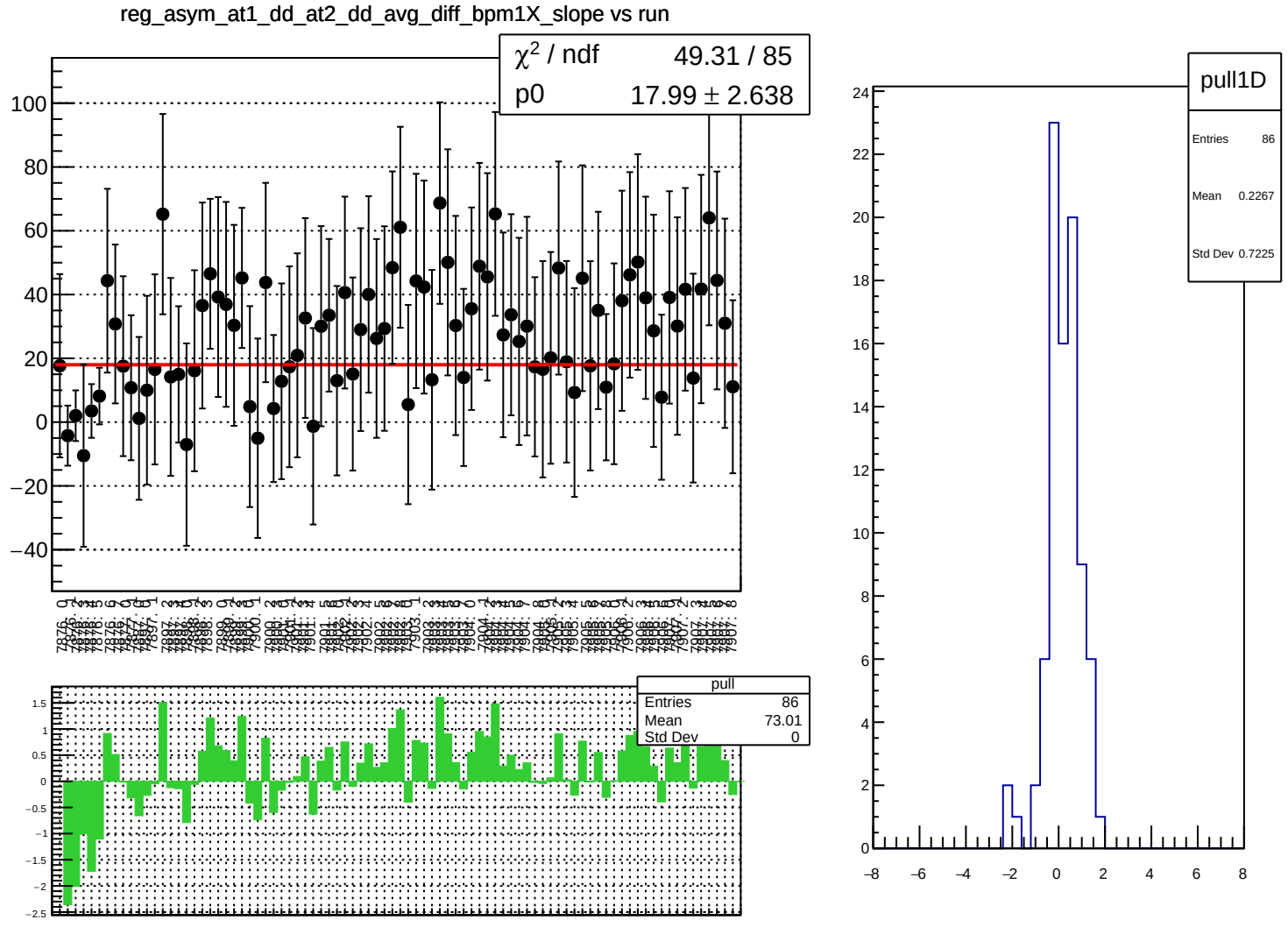

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.86 / 85
p0 −5.066 ± 2.62
pull
Entries 86
Mean 58.62
Std Dev 14.04
pull1D
Entries 86
Mean 0.0515
Std Dev 0.5968

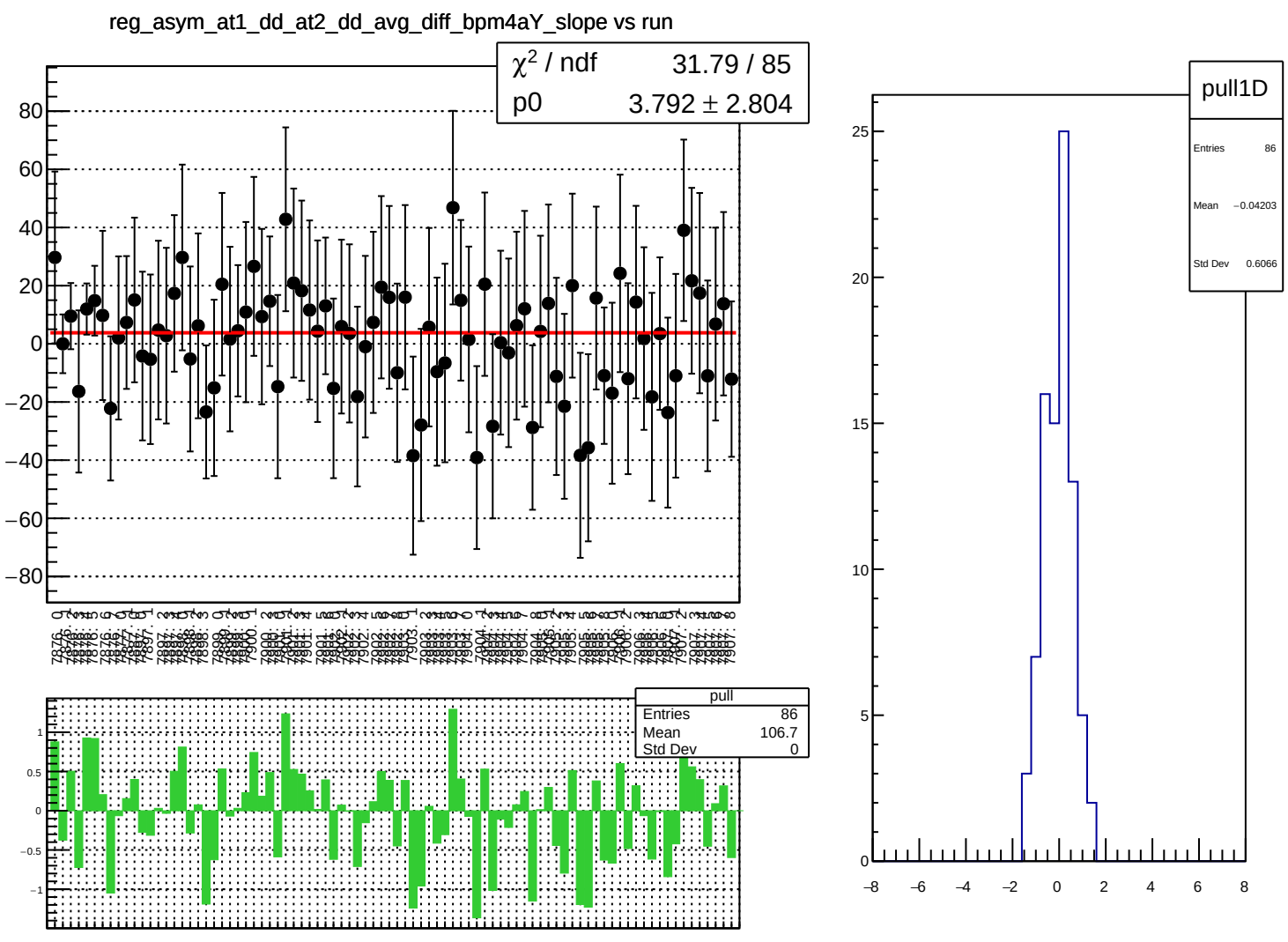

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 287.7 / 85
p0 −63.81 ± 1.927
pull
Entries 86
Mean 53.1
Std Dev 14.19

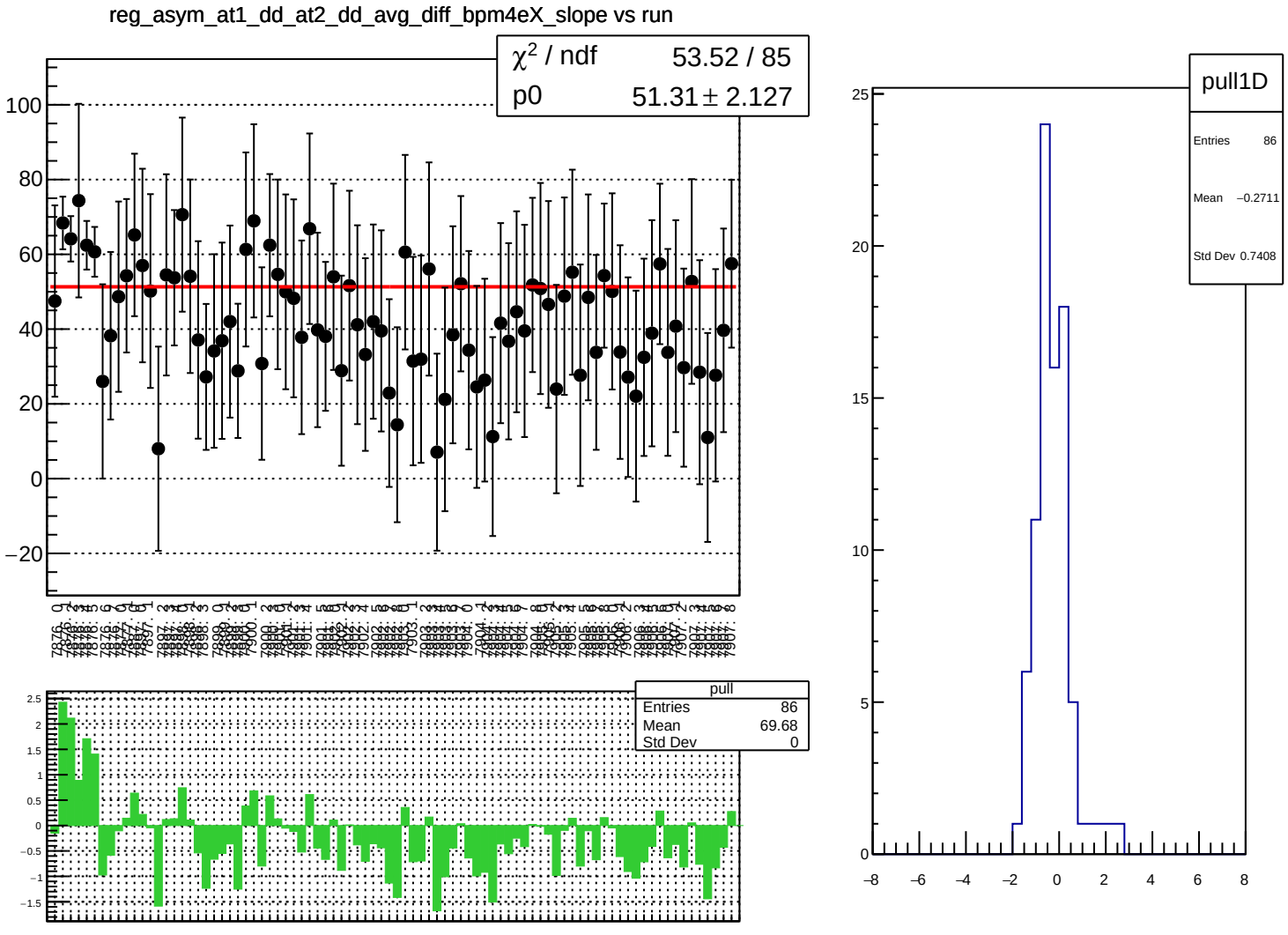

pull1D
Entries 86
Mean 0.9532
Std Dev 1.561

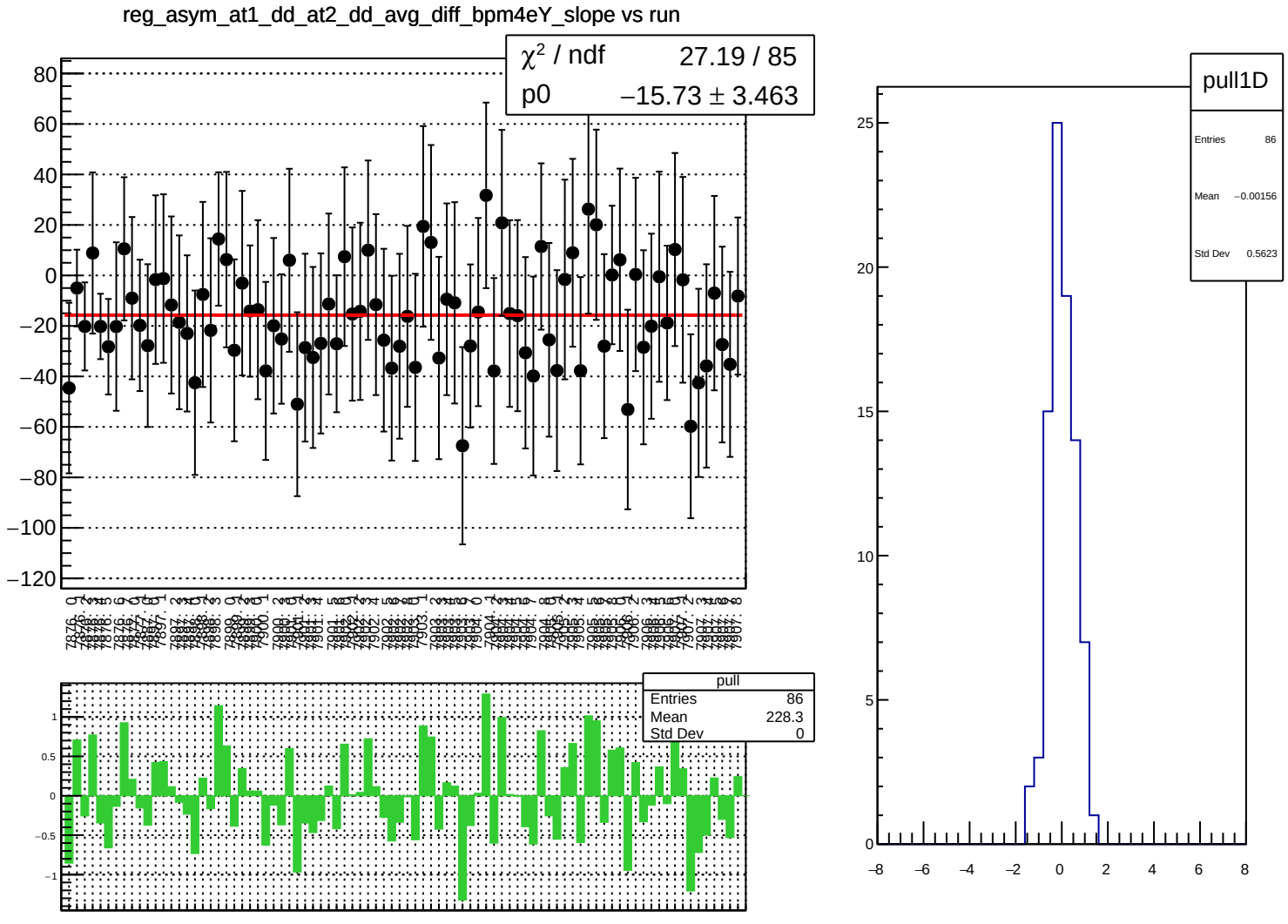

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.69 / 85
p0 2.364 ± 3.323
100
50
0
−50
−100
pull
Entries 86
Mean 49.26
Std Dev 7.509
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.02305
Std Dev 0.5871
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

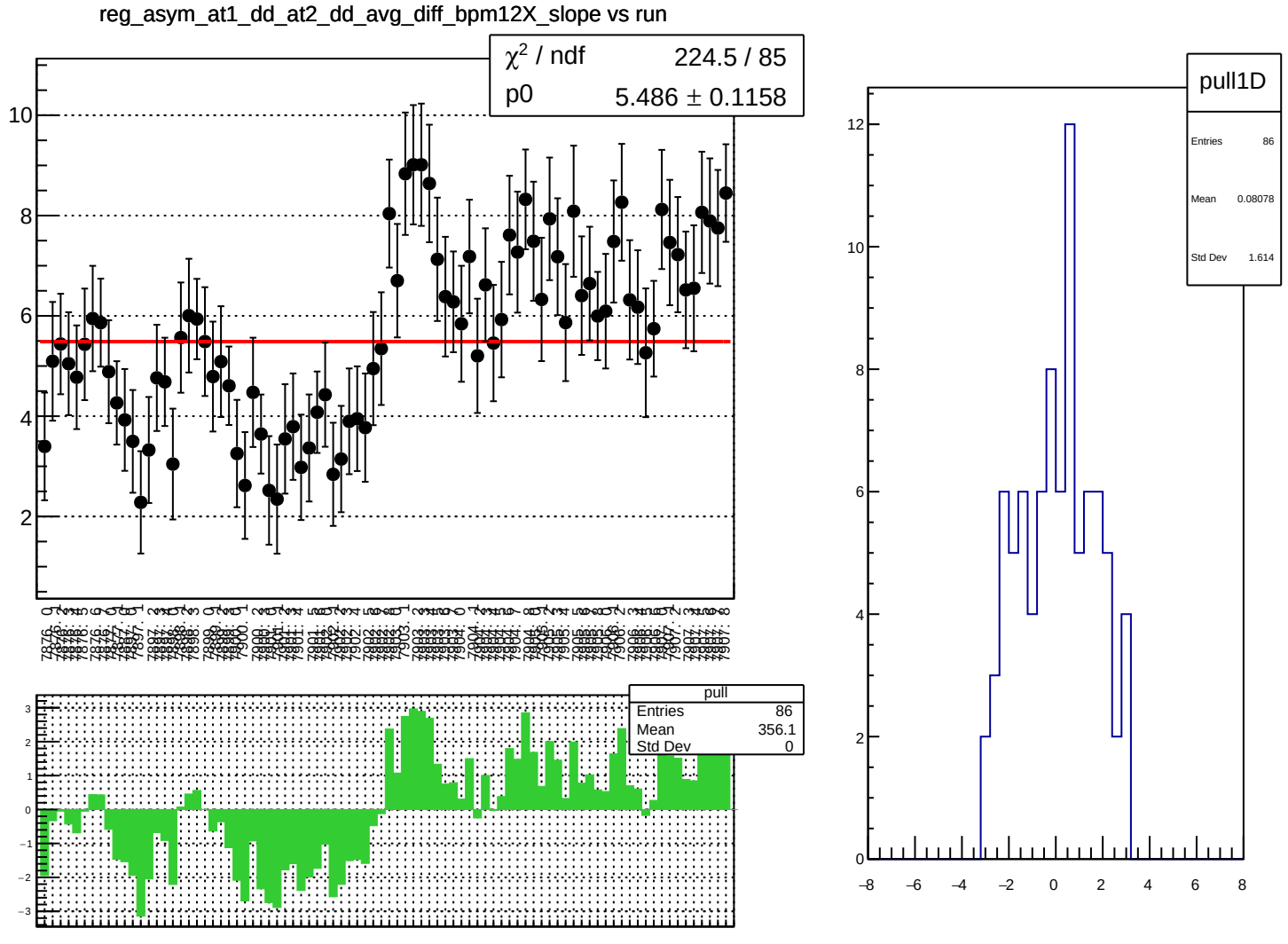

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 282.9 / 85
p0 26.36 ± 0.1161
pull
Entries 86
Mean 162.8
Std Dev 0
pull1D
Entries 86
Mean 0.1141
Std Dev 1.81

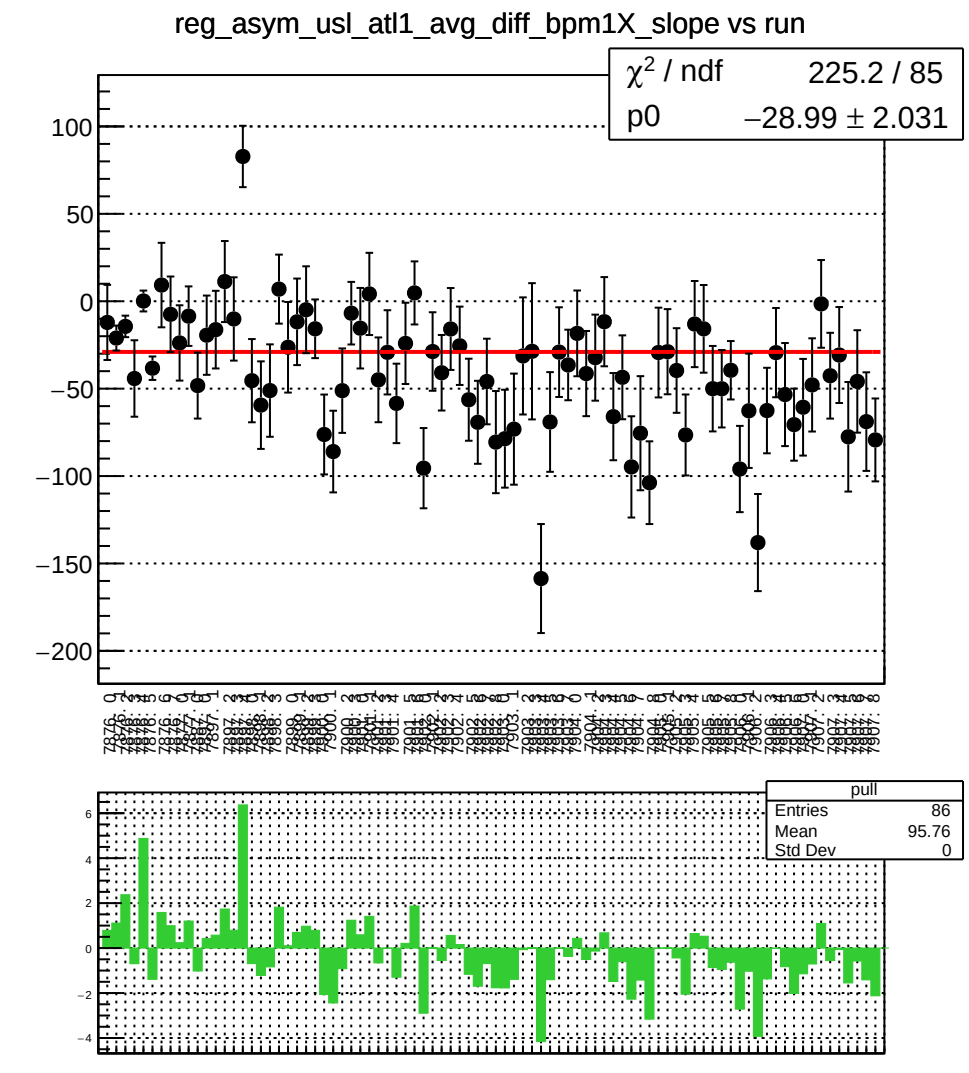

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 49.31 / 85
p0 17.99 ± 2.638
pull
Entries 86
Mean 73.01
Std Dev 0
pull1D
Entries 86
Mean 0.2267
Std Dev 0.7225

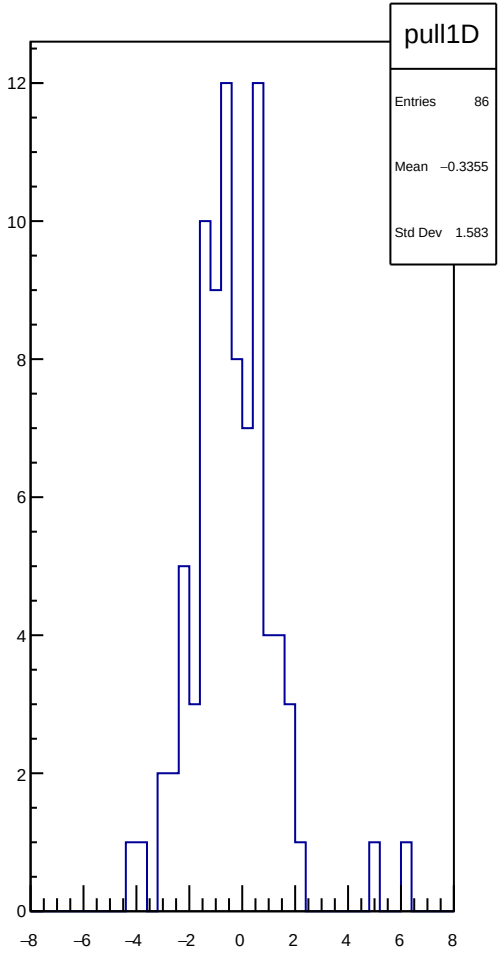

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.79 / 85
p0 3.792 ± 2.804
pull
Entries 86
Mean 106.7
Std Dev 0
pull1D
Entries 86
Mean −0.04203
Std Dev 0.6066

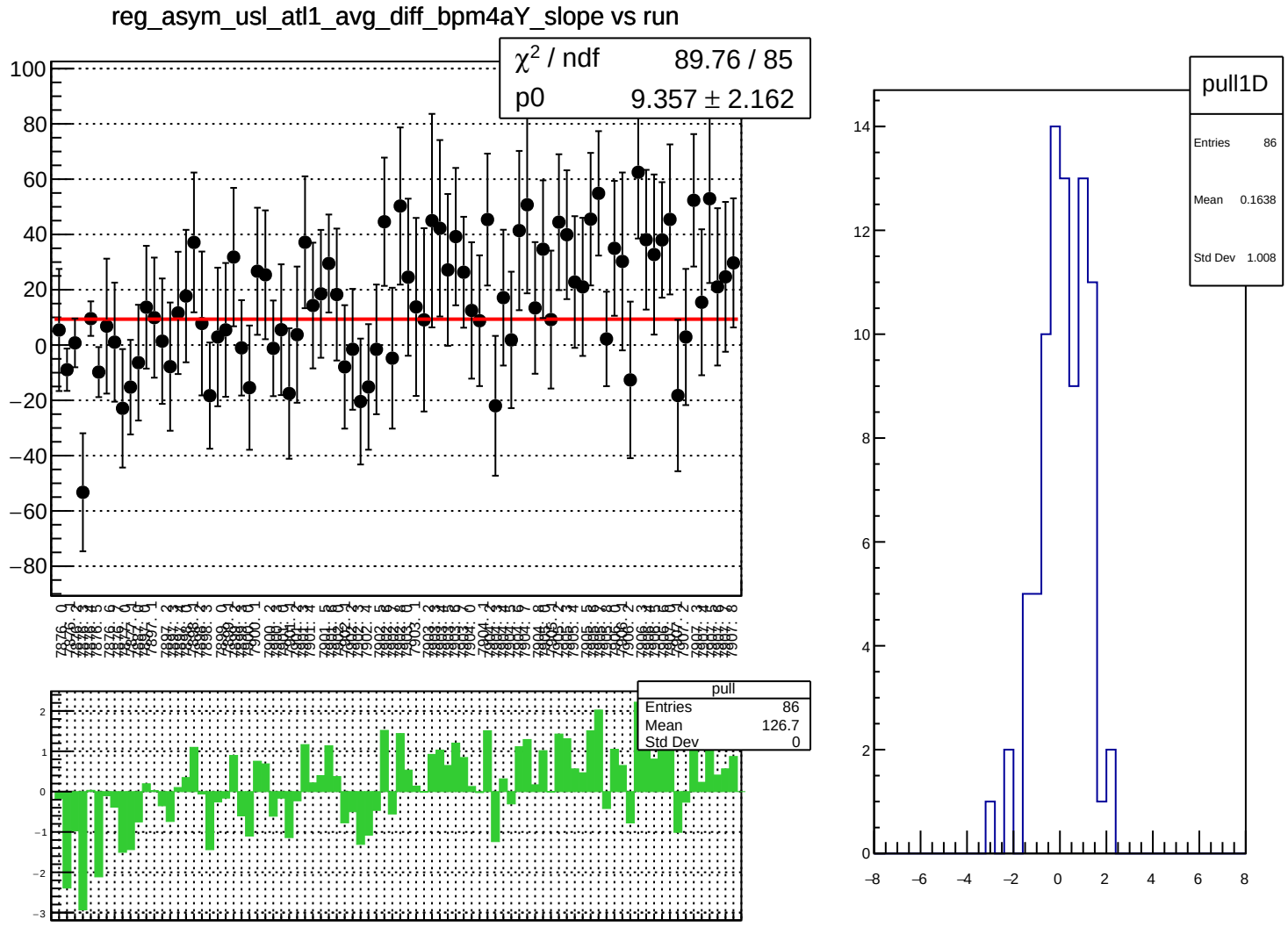

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.52 / 85
p0 51.31 ± 2.127
pull
Entries 86
Mean 69.68
Std Dev 0
pull1D
Entries 86
Mean −0.2711
Std Dev 0.7408

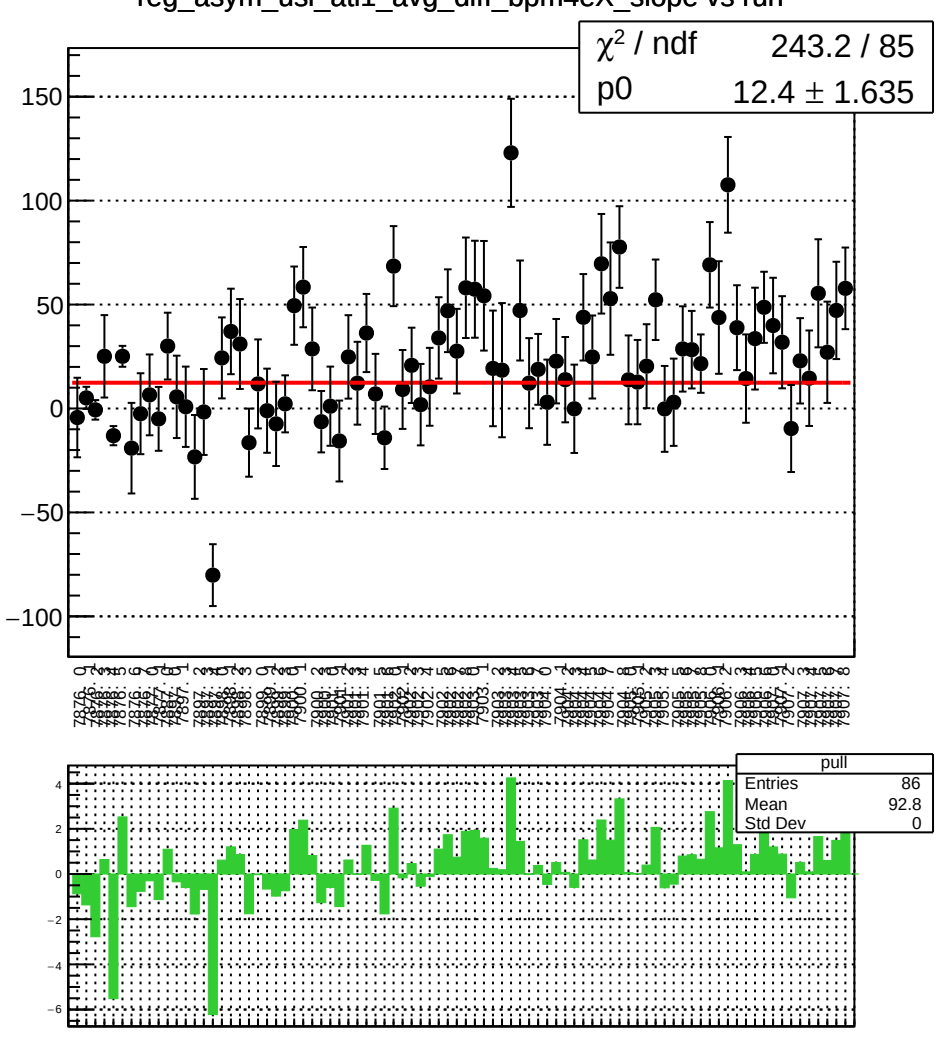

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.19 / 85
p0 −15.73 ± 3.463
pull
Entries 86
Mean 228.3
Std Dev 0
pull1D
Entries 86
Mean −0.00156
Std Dev 0.5623

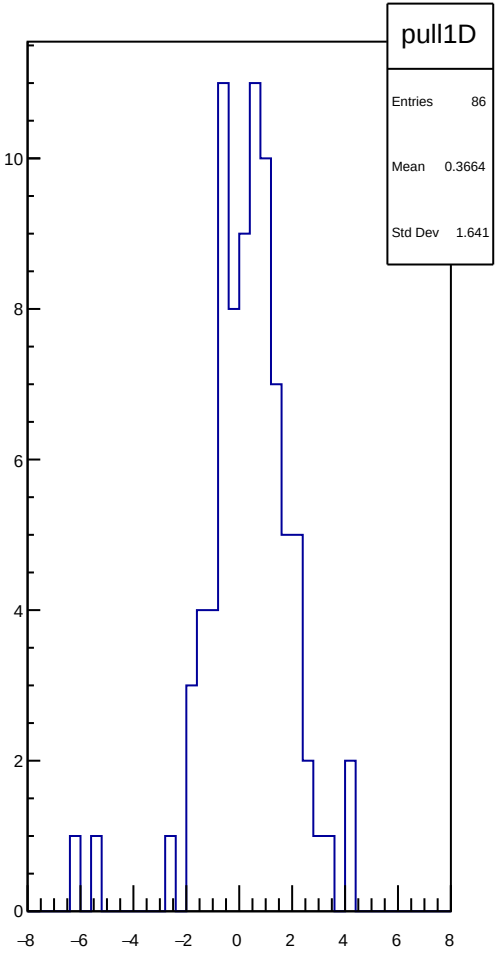

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 224.5 / 85
p0 5.486 ± 0.1158
pull
Entries 86
Mean 356.1
Std Dev 0
pull1D
Entries 86
Mean 0.08078
Std Dev 1.614

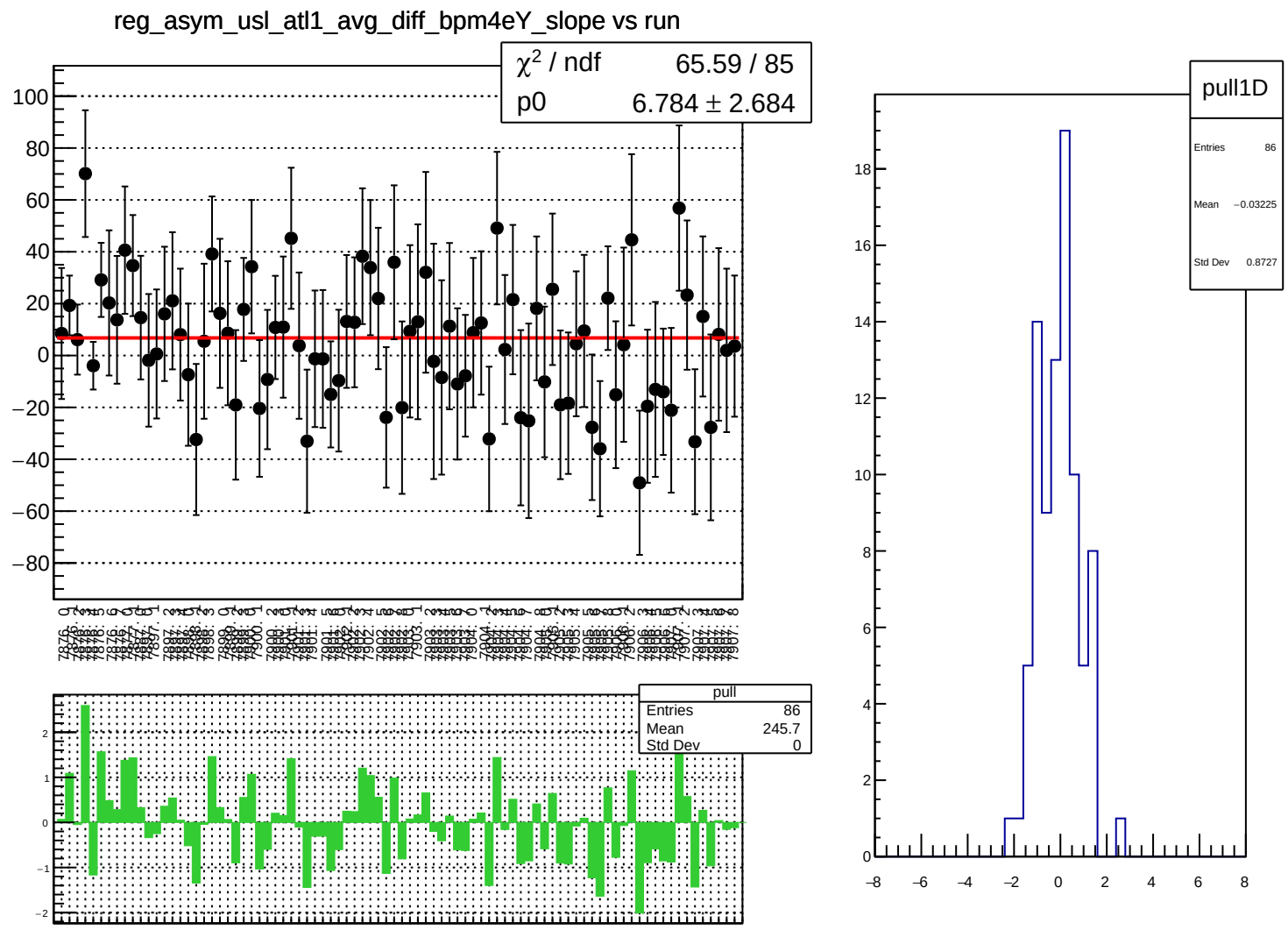

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 225.2 / 85
p0 −28.99 ± 2.031
pull
Entries 86
Mean 95.76
Std Dev 0

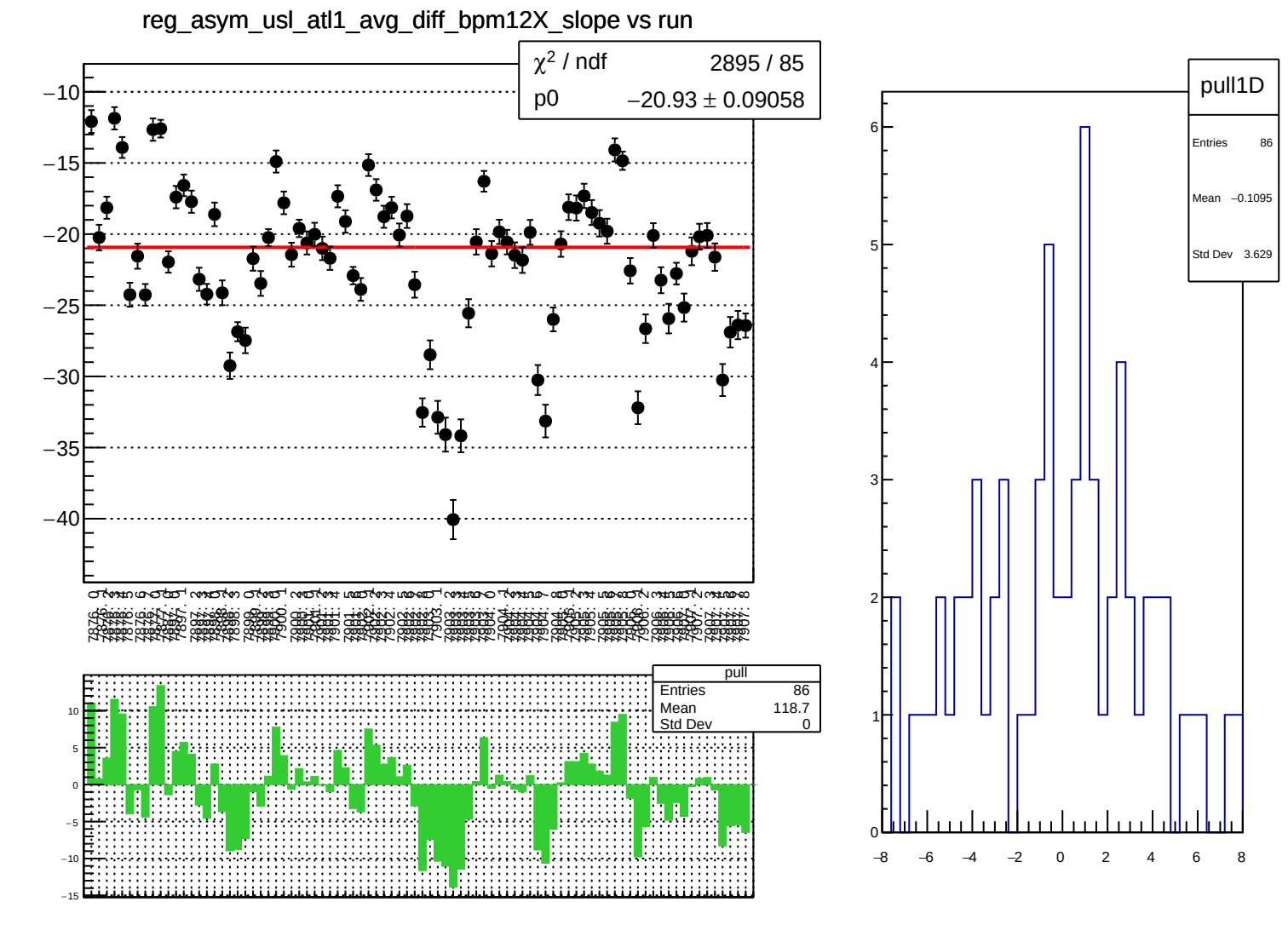

pull1D
Entries 86
Mean −0.3355
Std Dev 1.583

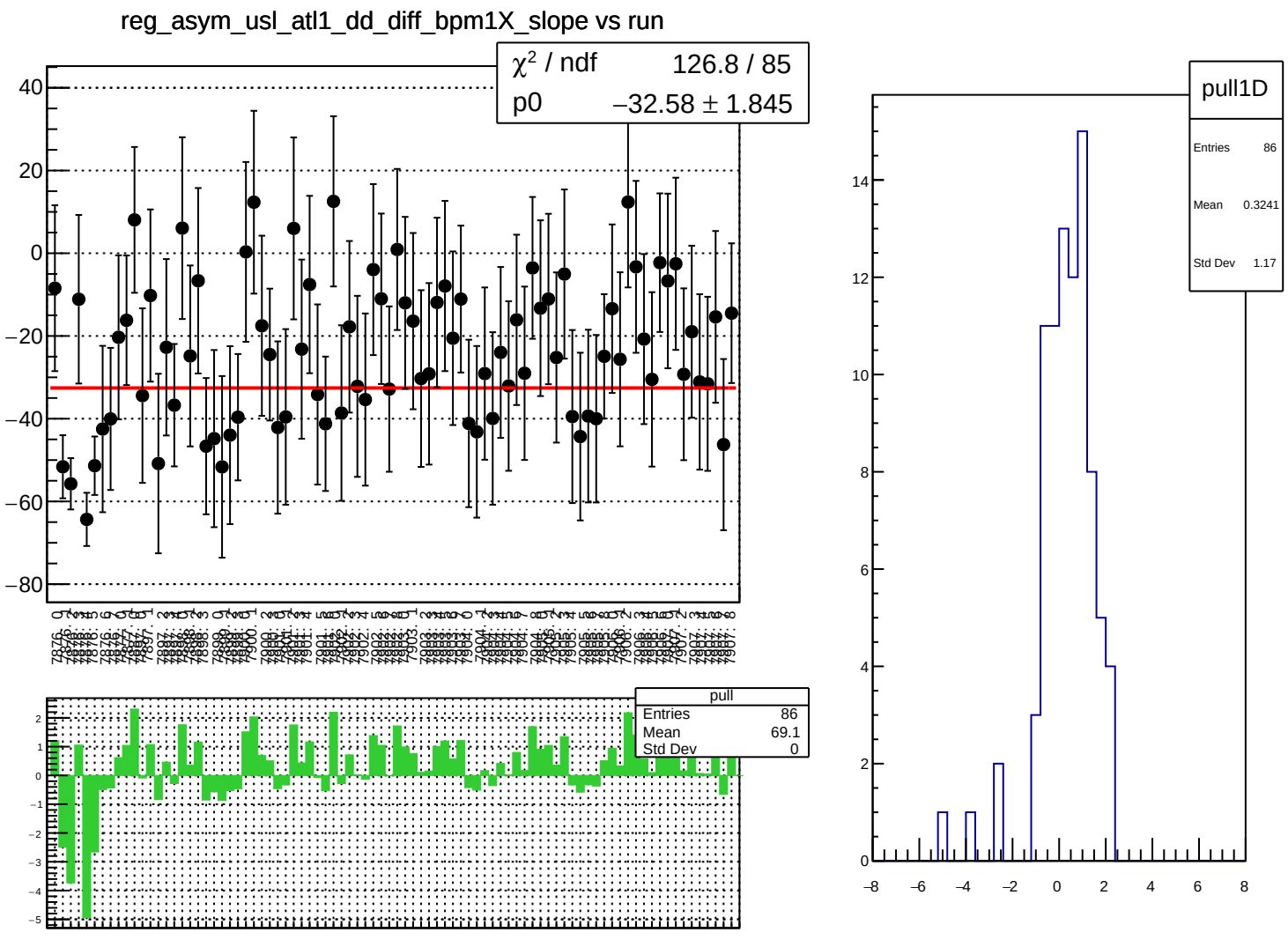

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.76 / 85
p0 9.357 ± 2.162
pull
Entries 86
Mean 126.7
Std Dev 0
pull1D
Entries 86
Mean 0.1638
Std Dev 1.008

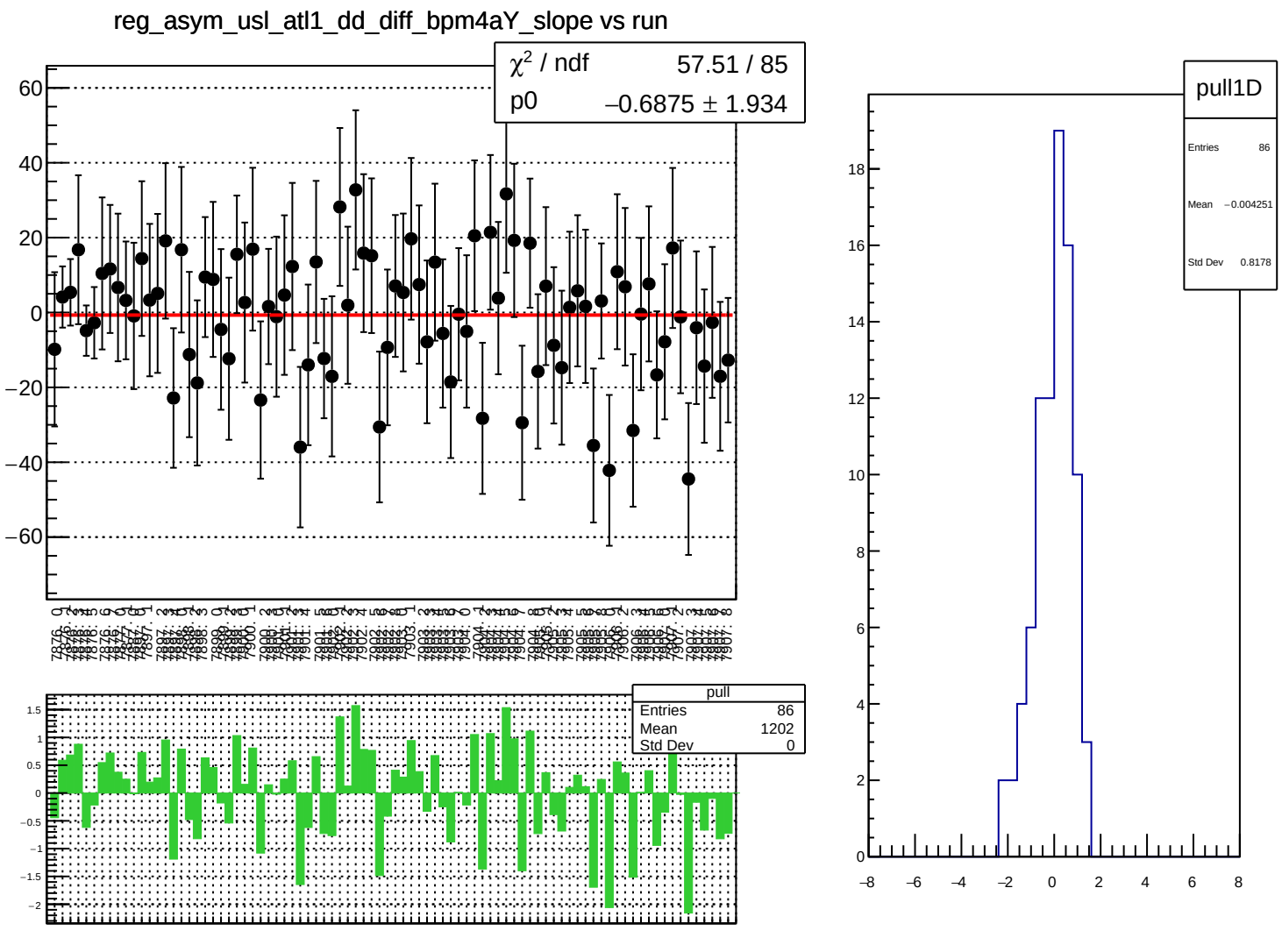

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 243.2 / 85
p0 12.4 ± 1.635
150
100
50
0
−50
−100
pull
Entries 86
Mean 92.8
Std Dev 0
4
2
0
−2
−4
−6

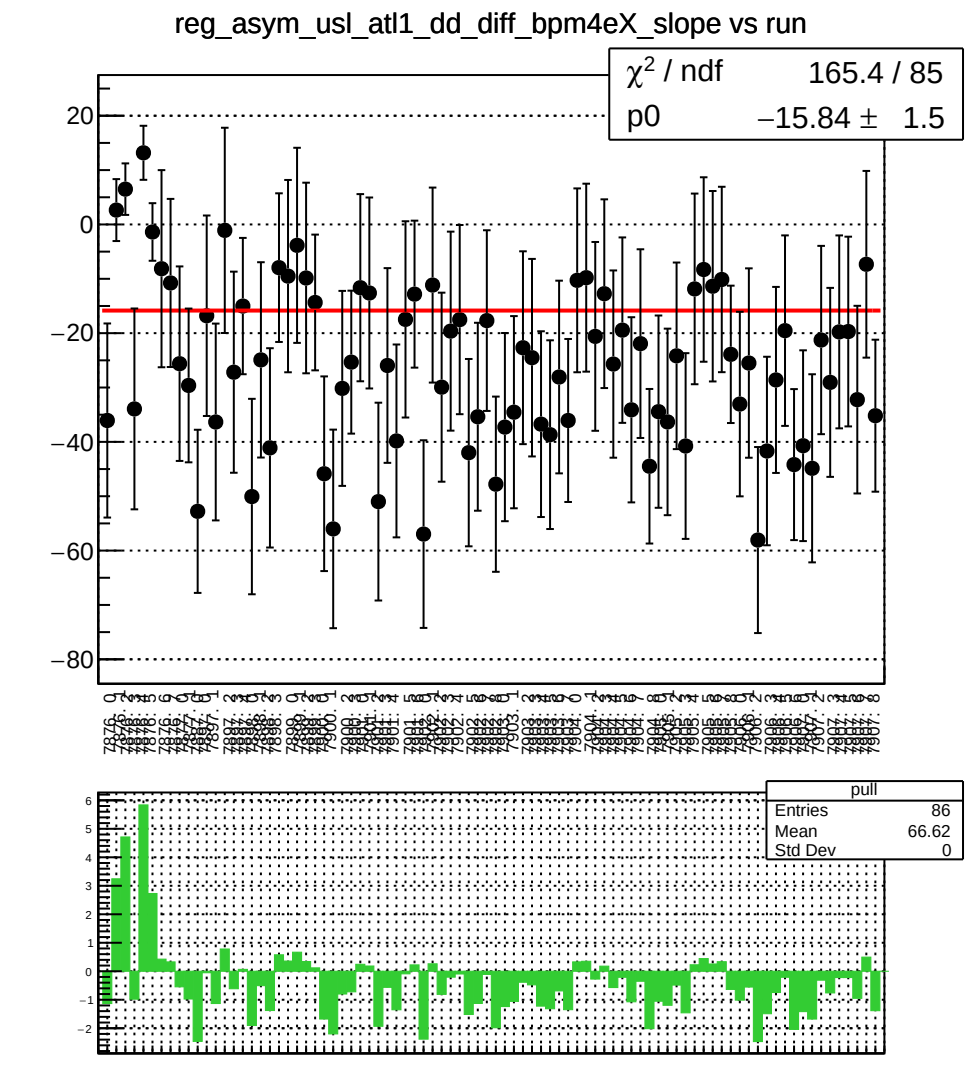

pull1D
Entries 86
Mean 0.3664
Std Dev 1.641
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

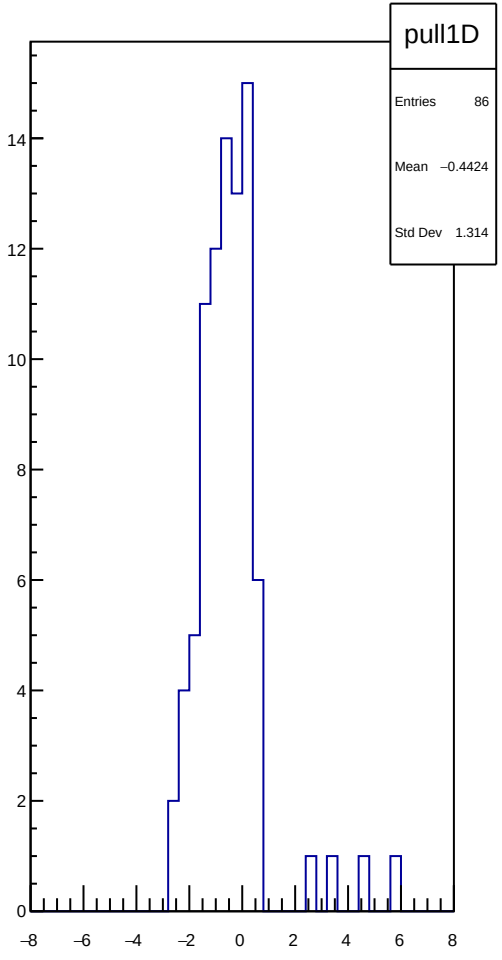

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.59 / 85
p0 6.784 ± 2.684
pull
Entries 86
Mean 245.7
Std Dev 0
pull1D
Entries 86
Mean −0.03225
Std Dev 0.8727

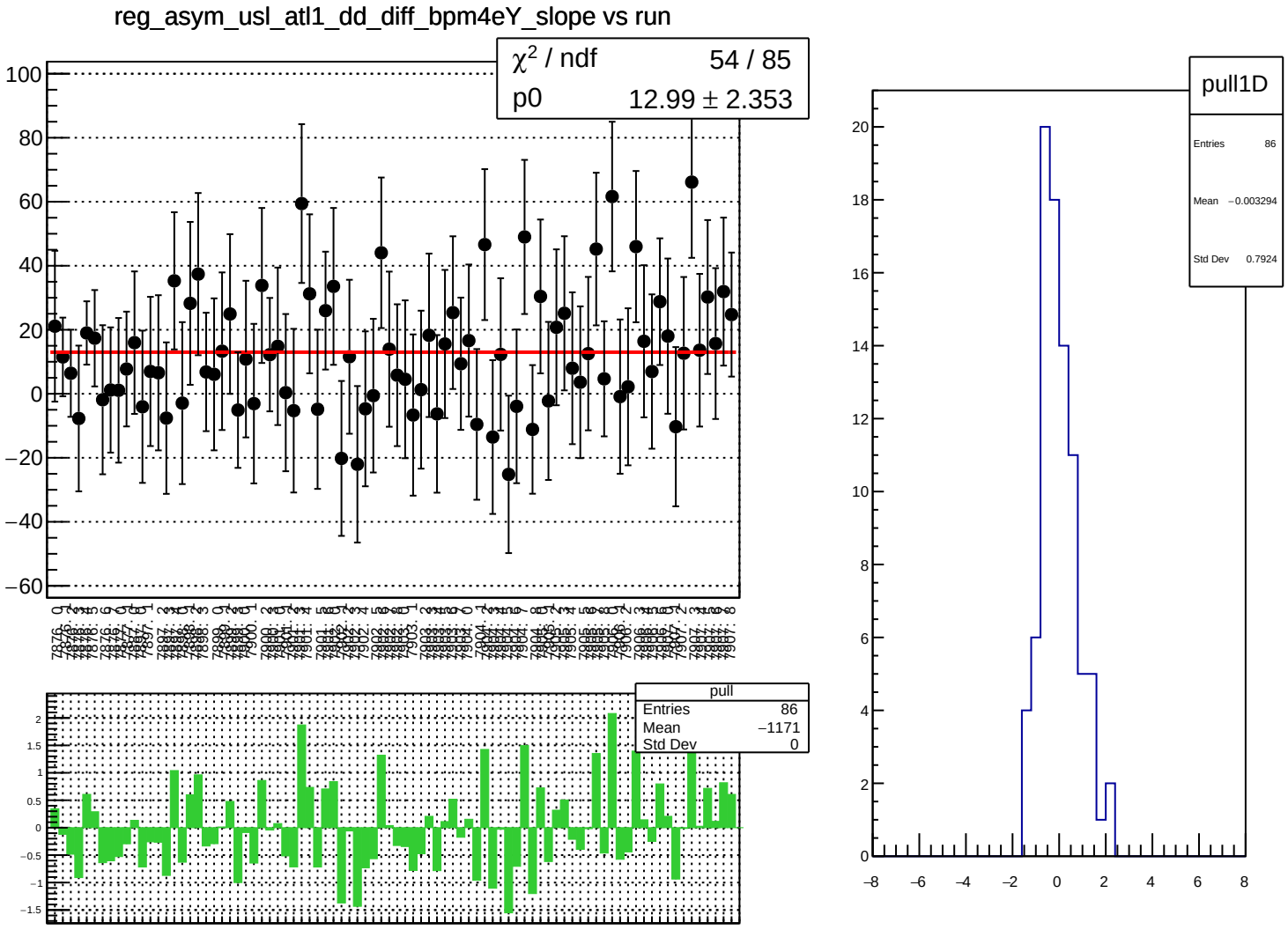

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 2895 / 85
p0 −20.93 ± 0.09058
pull
Entries 86
Mean 118.7
Std Dev 0
pull1D
Entries 86
Mean −0.1095
Std Dev 3.629

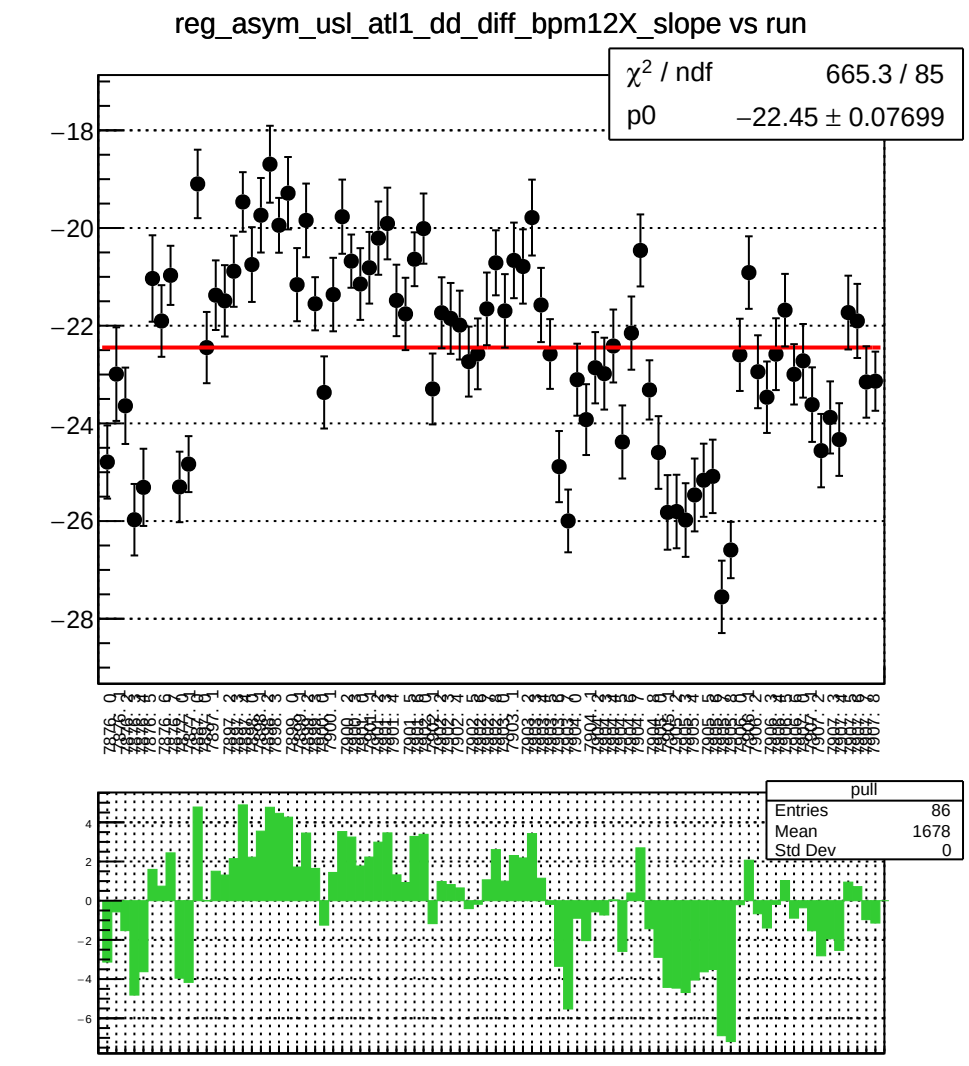

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 126.8 / 85
p0 −32.58 ± 1.845
pull
Entries 86
Mean 69.1
Std Dev 0
pull1D
Entries 86
Mean 0.3241
Std Dev 1.17

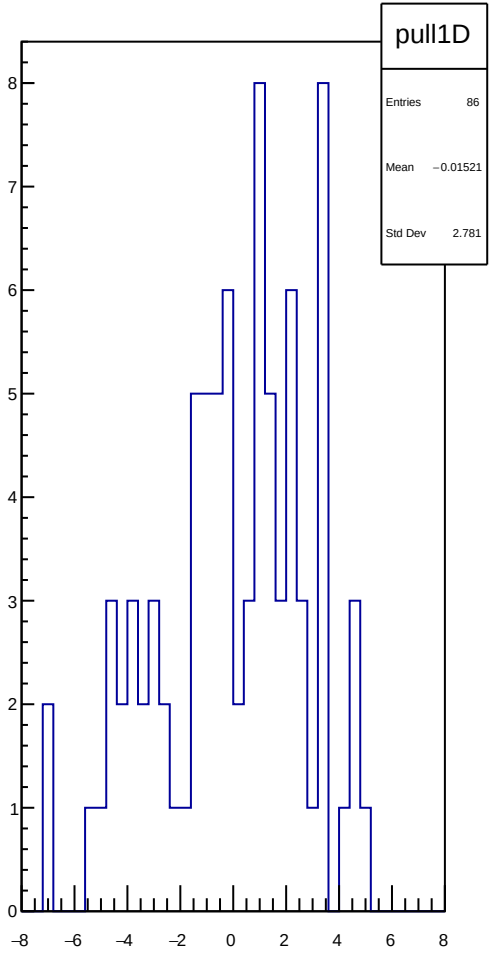

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.51 / 85
p0 −0.6875 ± 1.934
pull
Entries 86
Mean 1202
Std Dev 0
pull1D
Entries 86
Mean −0.004251
Std Dev 0.8178

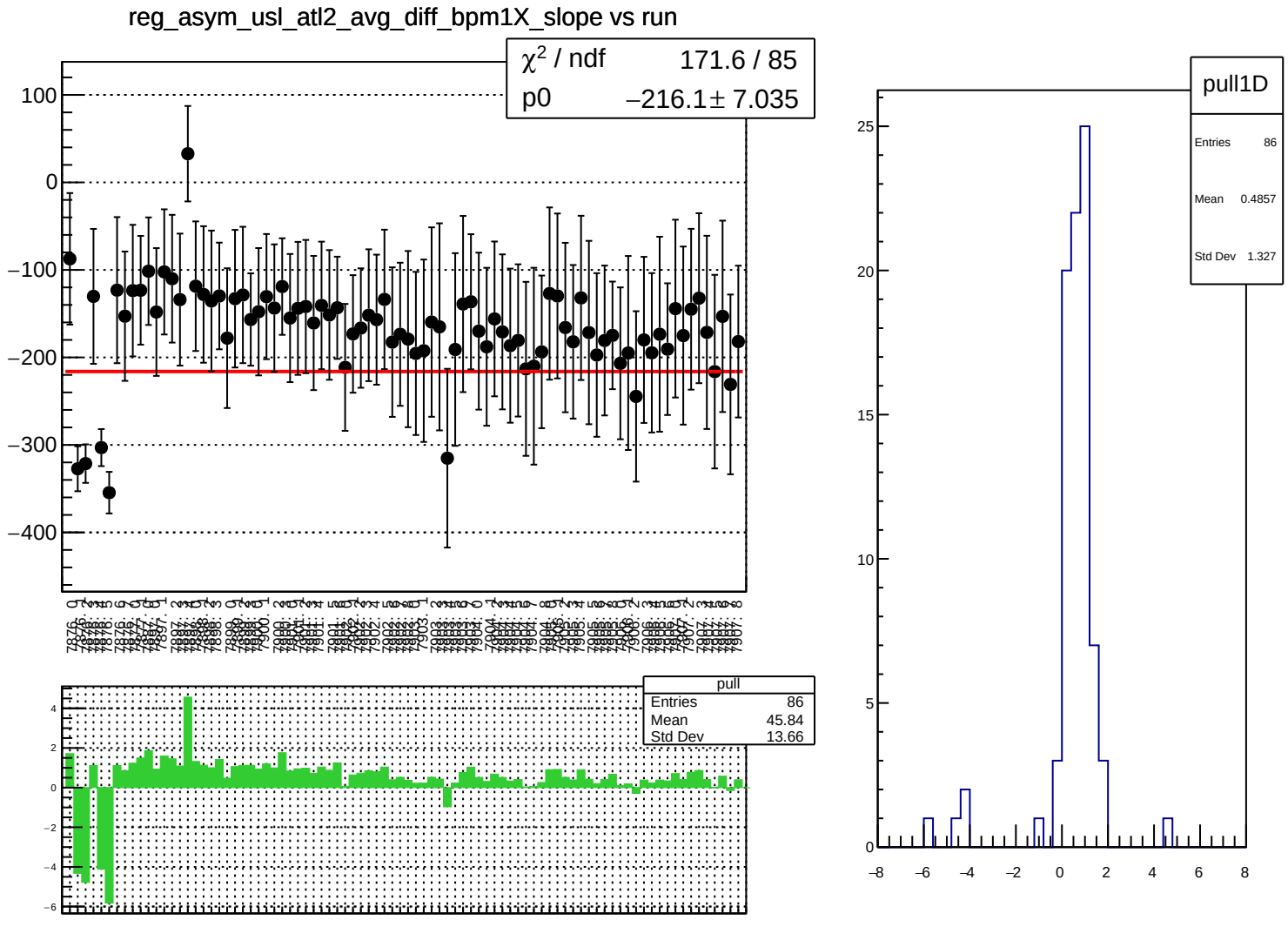

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 165.4 / 85
p0 −15.84 ± 1.5
pull
Entries 86
Mean 66.62
Std Dev 0

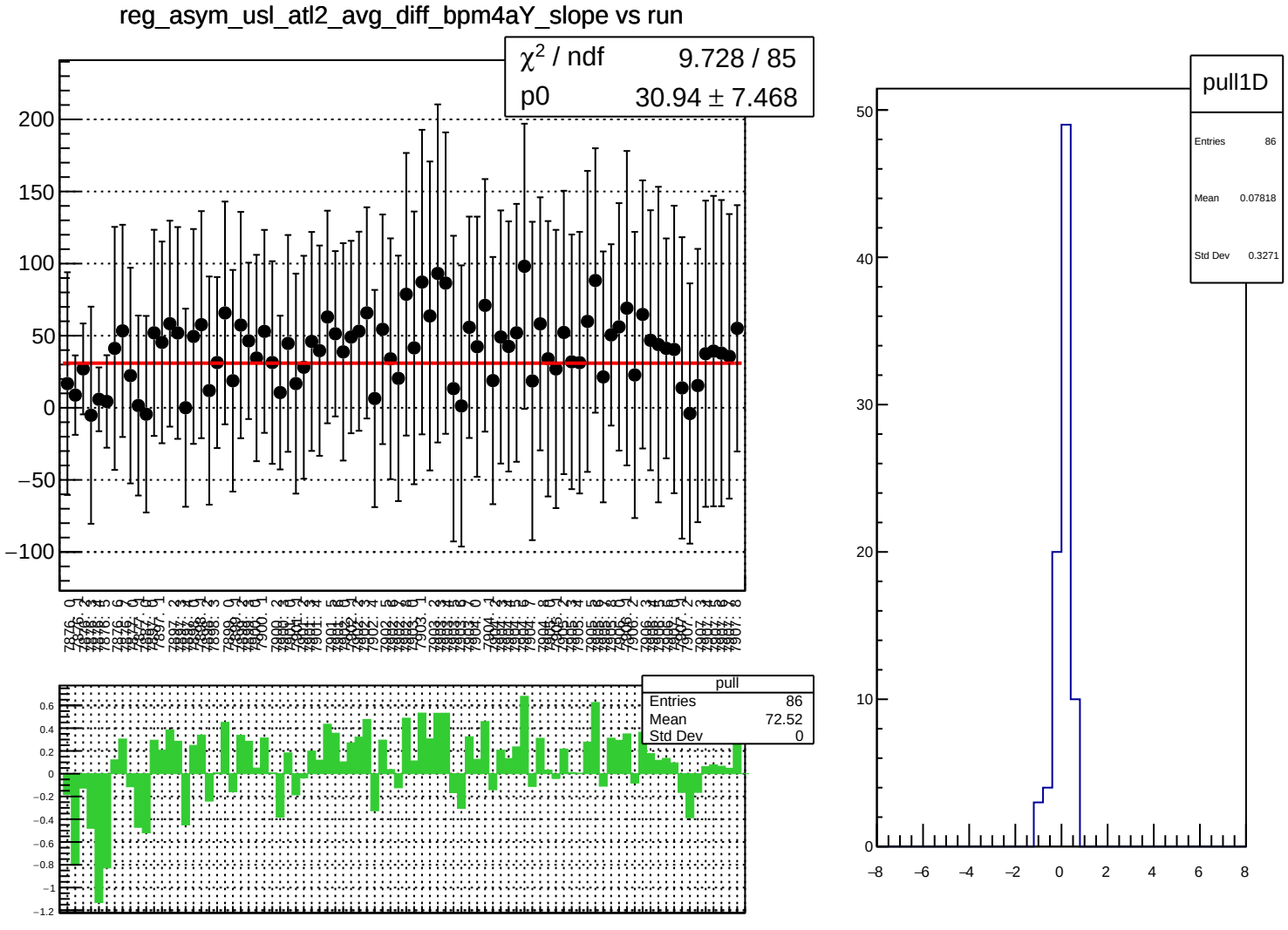

pull1D
Entries 86
Mean −0.4424
Std Dev 1.314

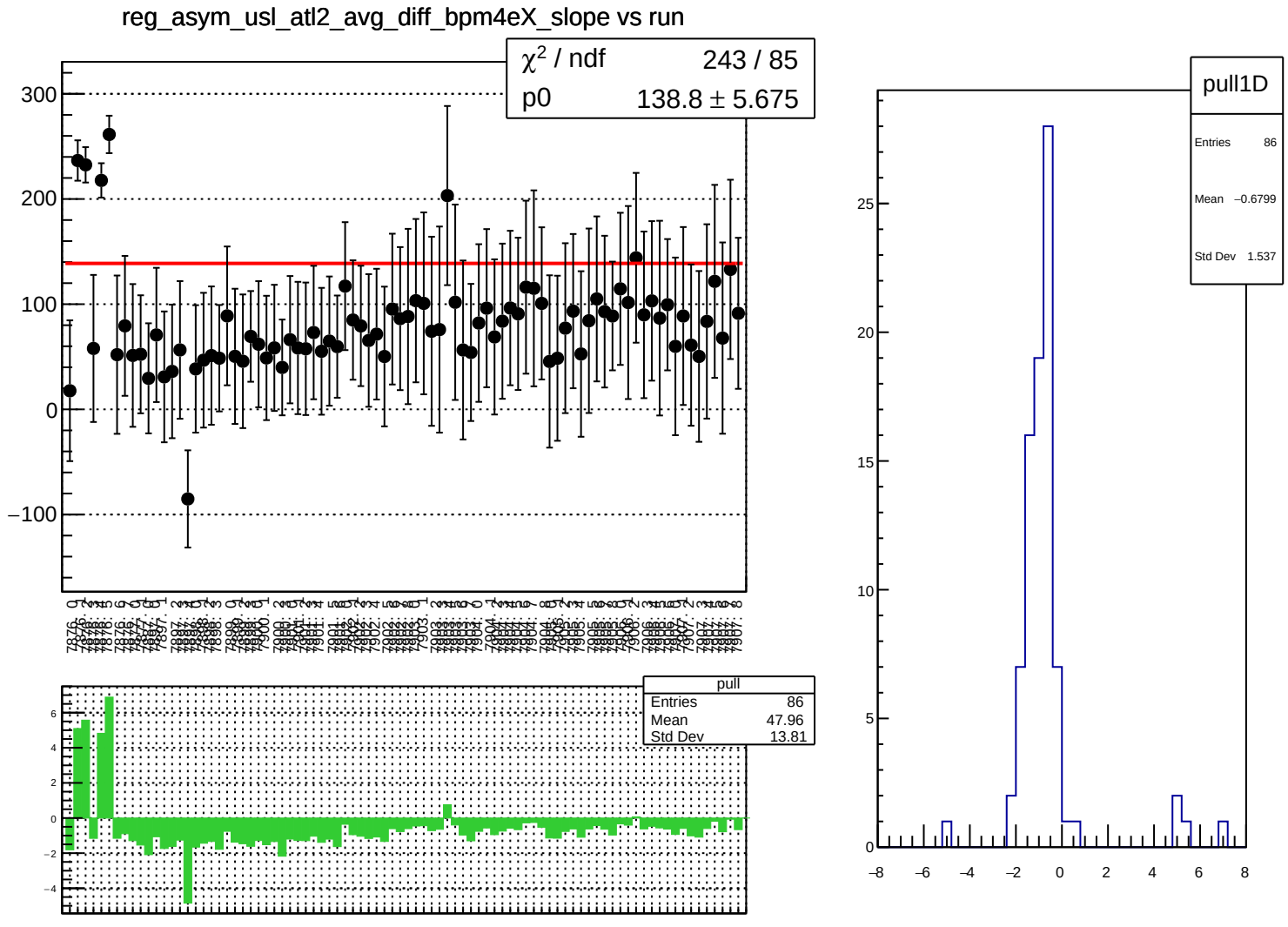

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 54 / 85
p0 12.99 ± 2.353
pull
Entries 86
Mean −1171
Std Dev 0
pull1D
Entries 86
Mean −0.003294
Std Dev 0.7924

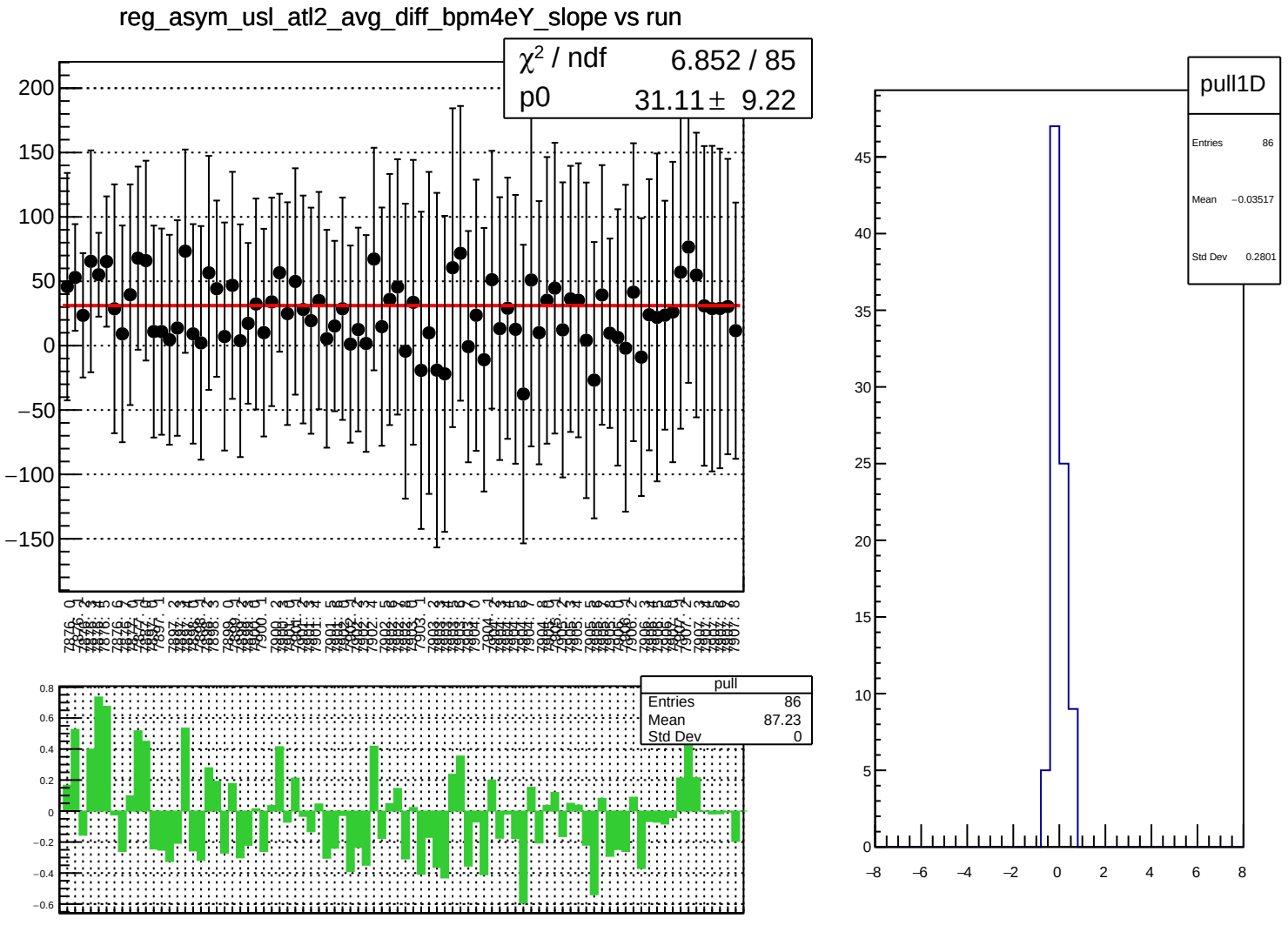

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 665.3 / 85
p0 −22.45 ± 0.07699
−18
−20
−22
−24
−26
−28
pull
Entries 86
Mean 1678
Std Dev 0
4
2
0
−2
−4
−6

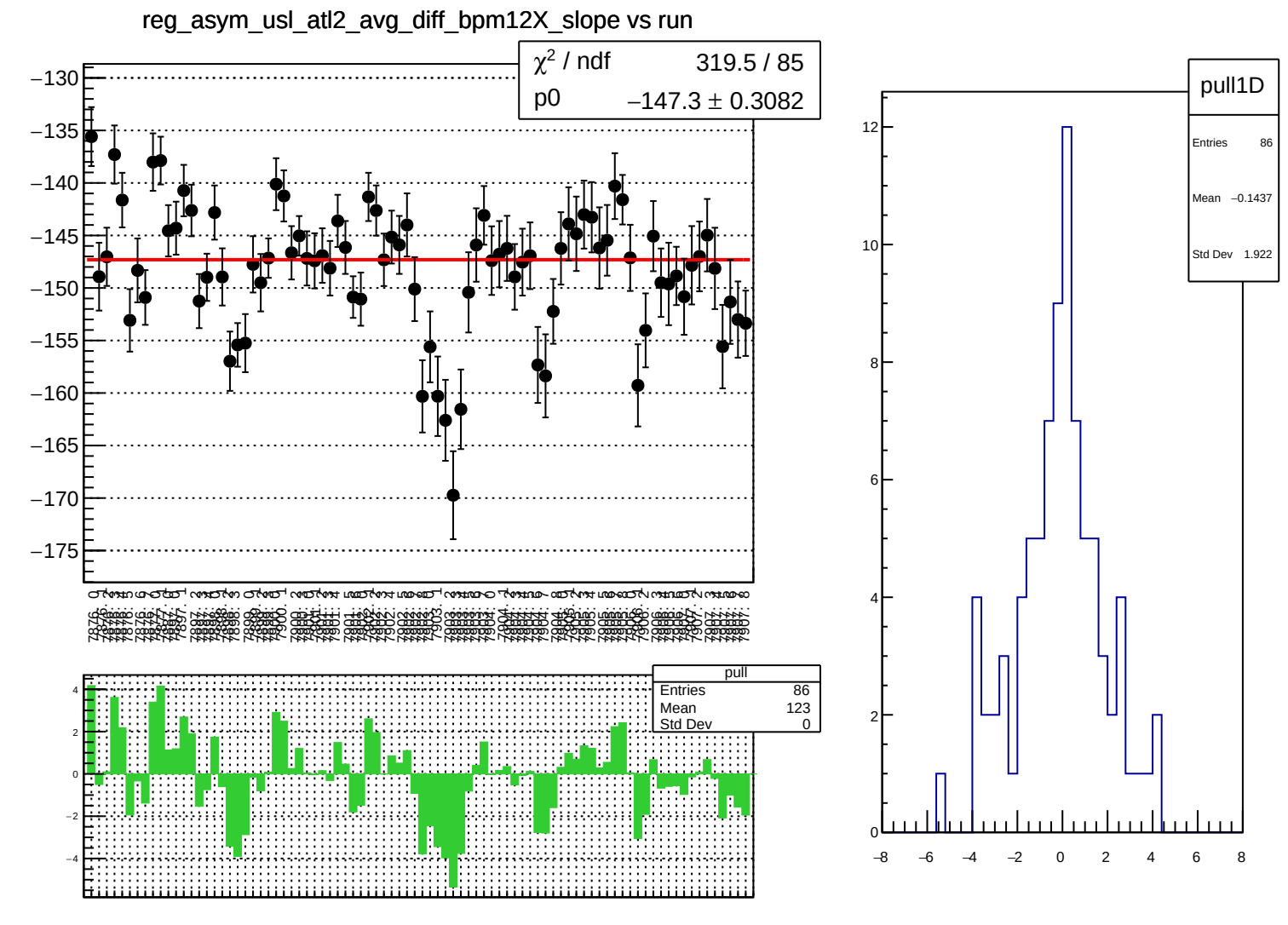

pull1D
Entries 86
Mean −0.01521
Std Dev 2.781
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

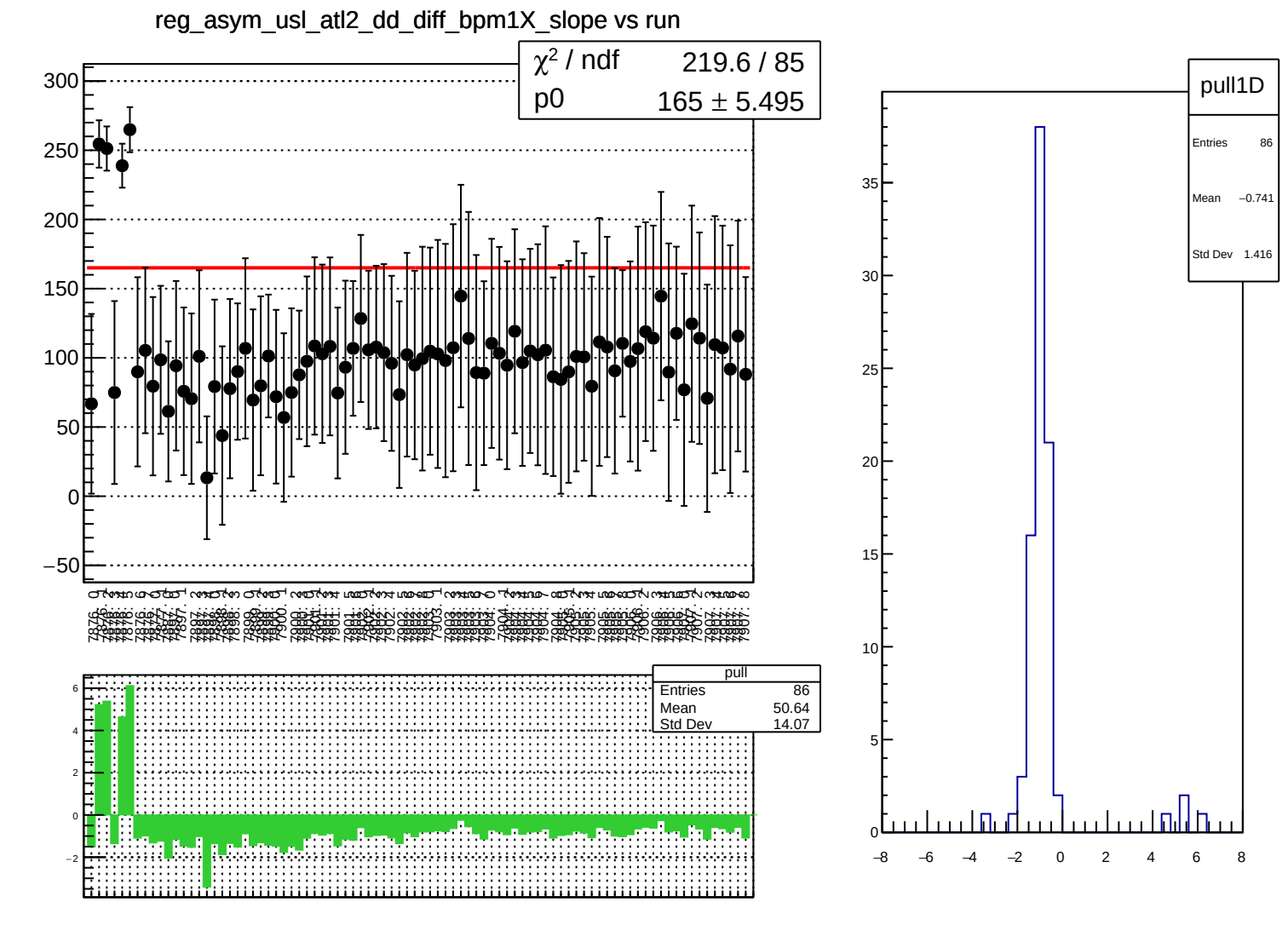

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 171.6 / 85
p0 −216.1± 7.035
100
0
−100
−200
−300
−400
pull
Entries 86
Mean 45.84
Std Dev 13.66
4
2
0
−2
−4
−6
pull1D
Entries 86
Mean 0.4857
Std Dev 1.327
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

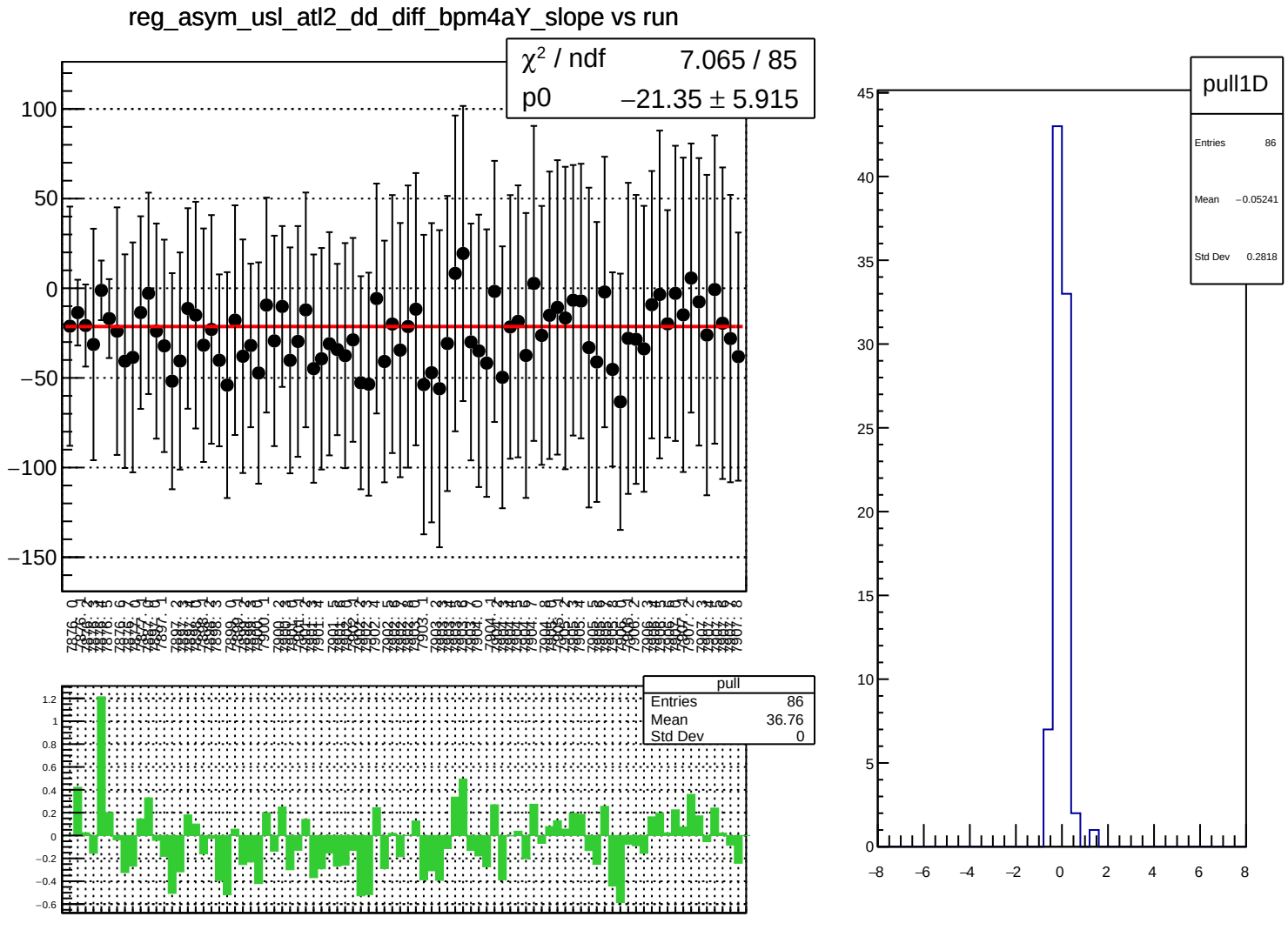

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.728 / 85
p0 30.94 ± 7.468
pull
Entries 86
Mean 72.52
Std Dev 0
pull1D
Entries 86
Mean 0.07818
Std Dev 0.3271

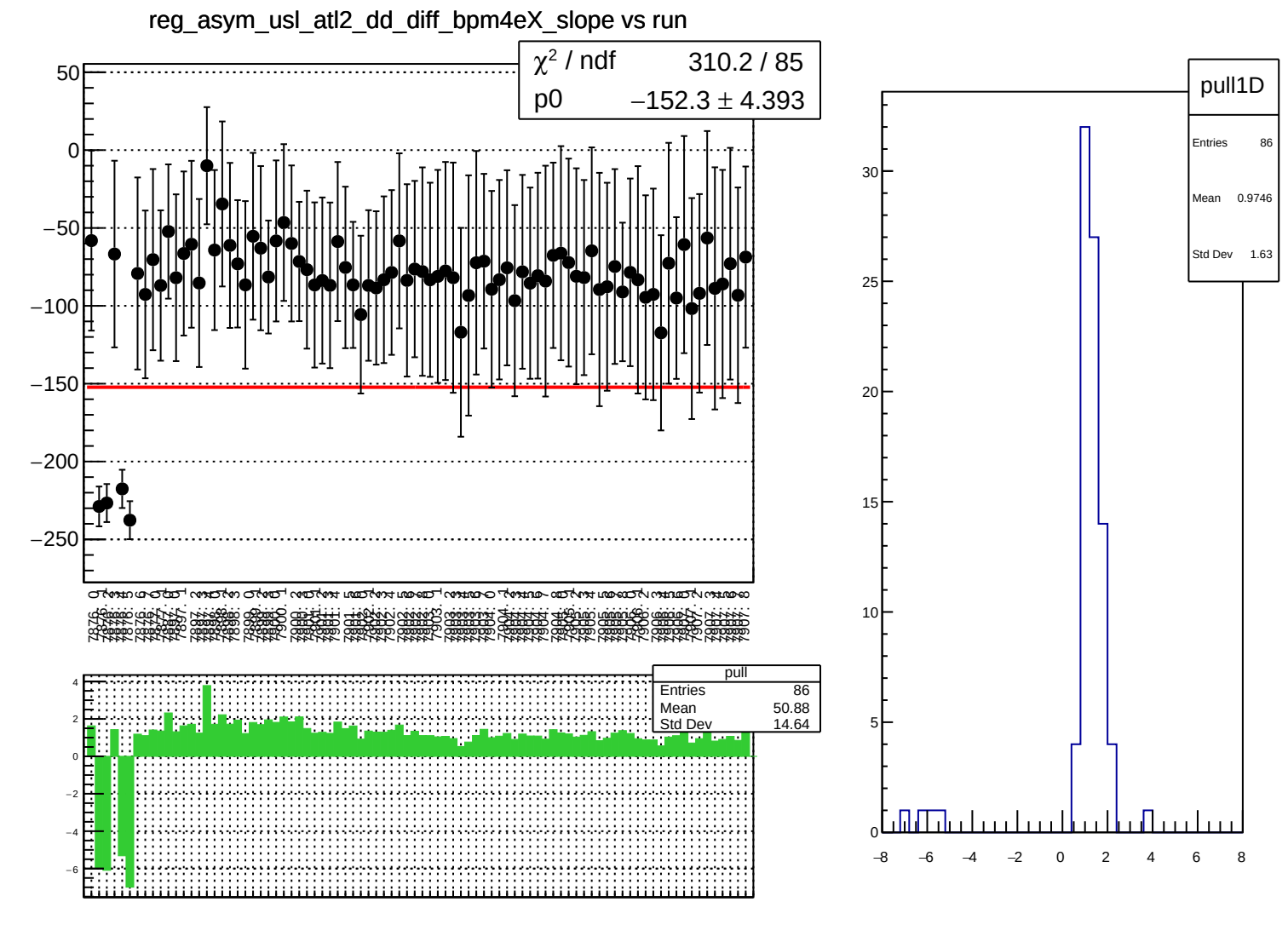

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 243 / 85
p0 138.8 ± 5.675
300
200
100
0
−100
pull
Entries 86
Mean 47.96
Std Dev 13.81
6
4
2
0
−2
−4
pull1D
Entries 86
Mean −0.6799
Std Dev 1.537
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

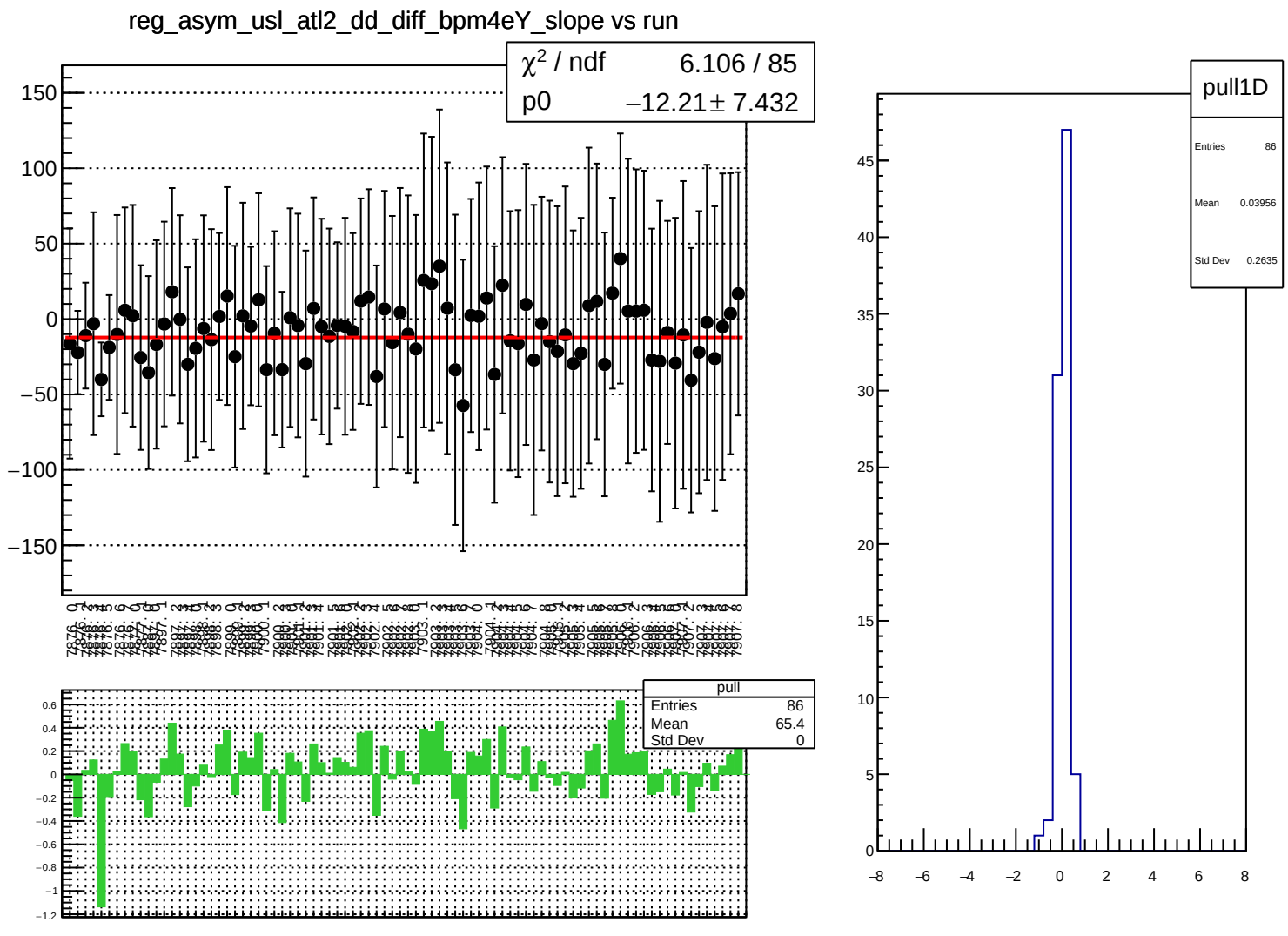

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.852 / 85
p0 31.11 ± 9.22
pull
Entries 86
Mean 87.23
Std Dev 0
pull1D
Entries 86
Mean −0.03517
Std Dev 0.2801

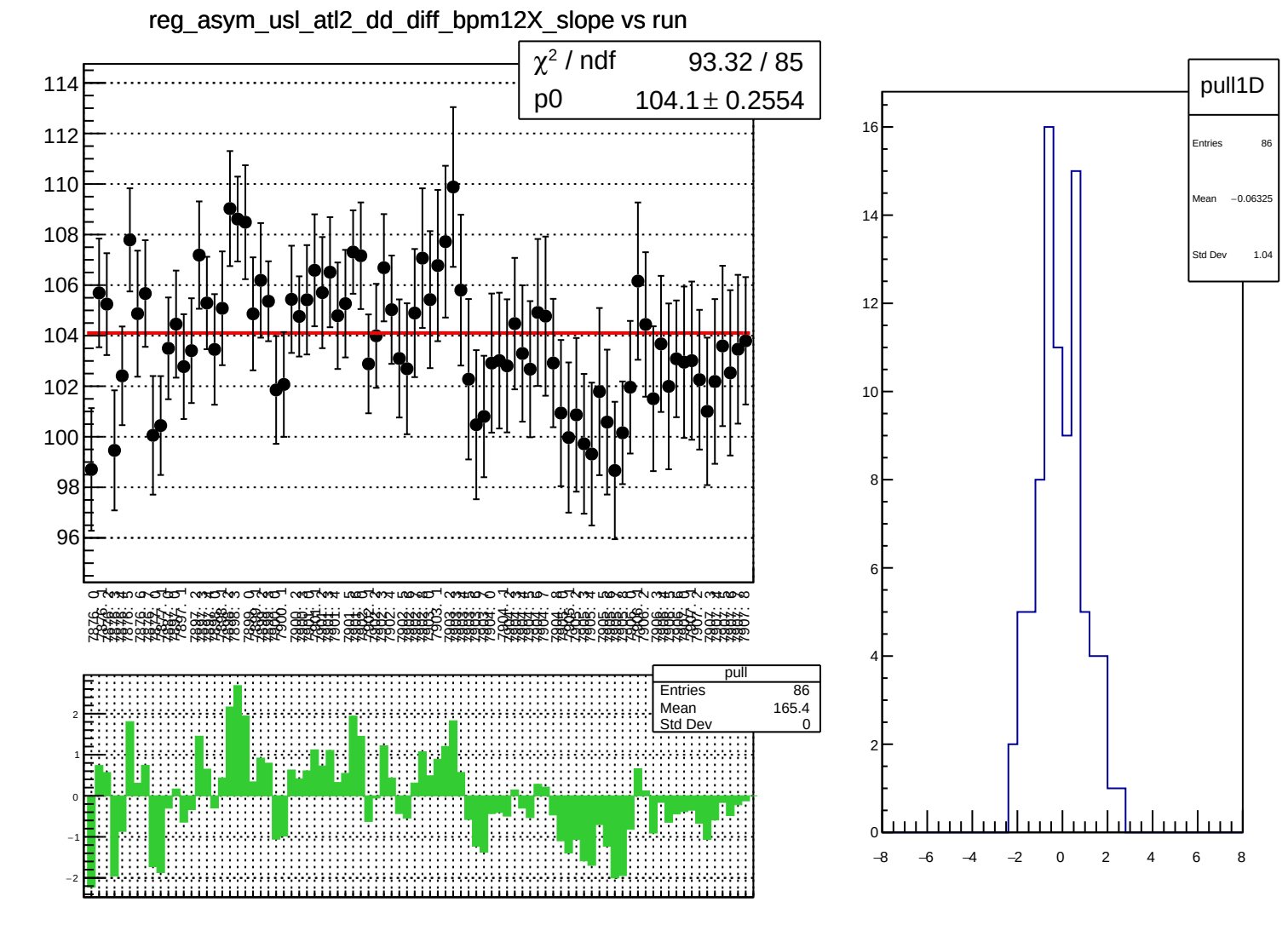

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 319.5 / 85
p0 −147.3 ± 0.3082
pull
Entries 86
Mean 123
Std Dev 0
pull1D
Entries 86
Mean −0.1437
Std Dev 1.922

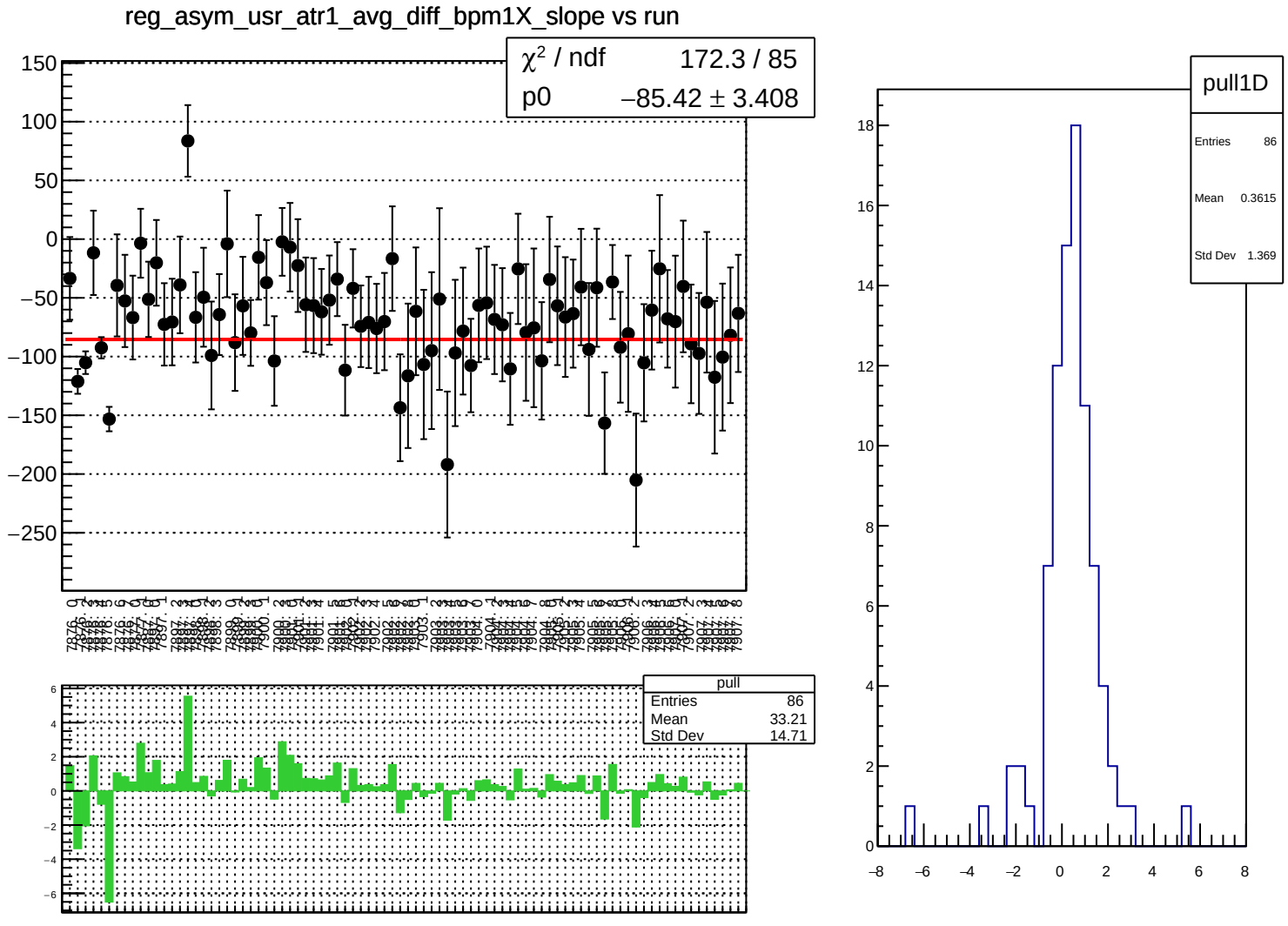

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 219.6 / 85
p0 165 ± 5.495
pull
Entries 86
Mean 50.64
Std Dev 14.07
pull1D
Entries 86
Mean −0.741
Std Dev 1.416

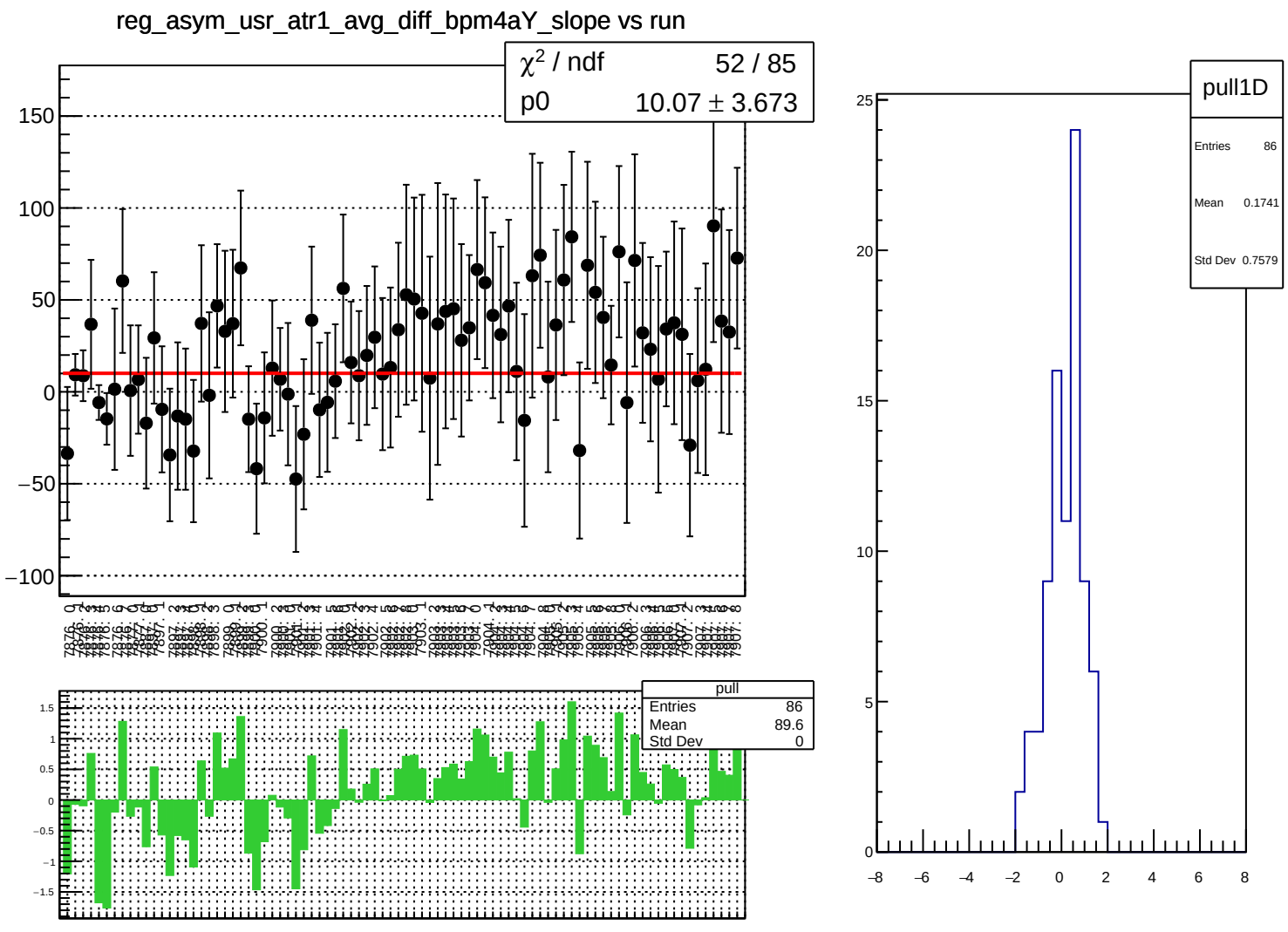

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.065 / 85
p0 −21.35 ± 5.915
pull
Entries 86
Mean 36.76
Std Dev 0
pull1D
Entries 86
Mean −0.05241
Std Dev 0.2818

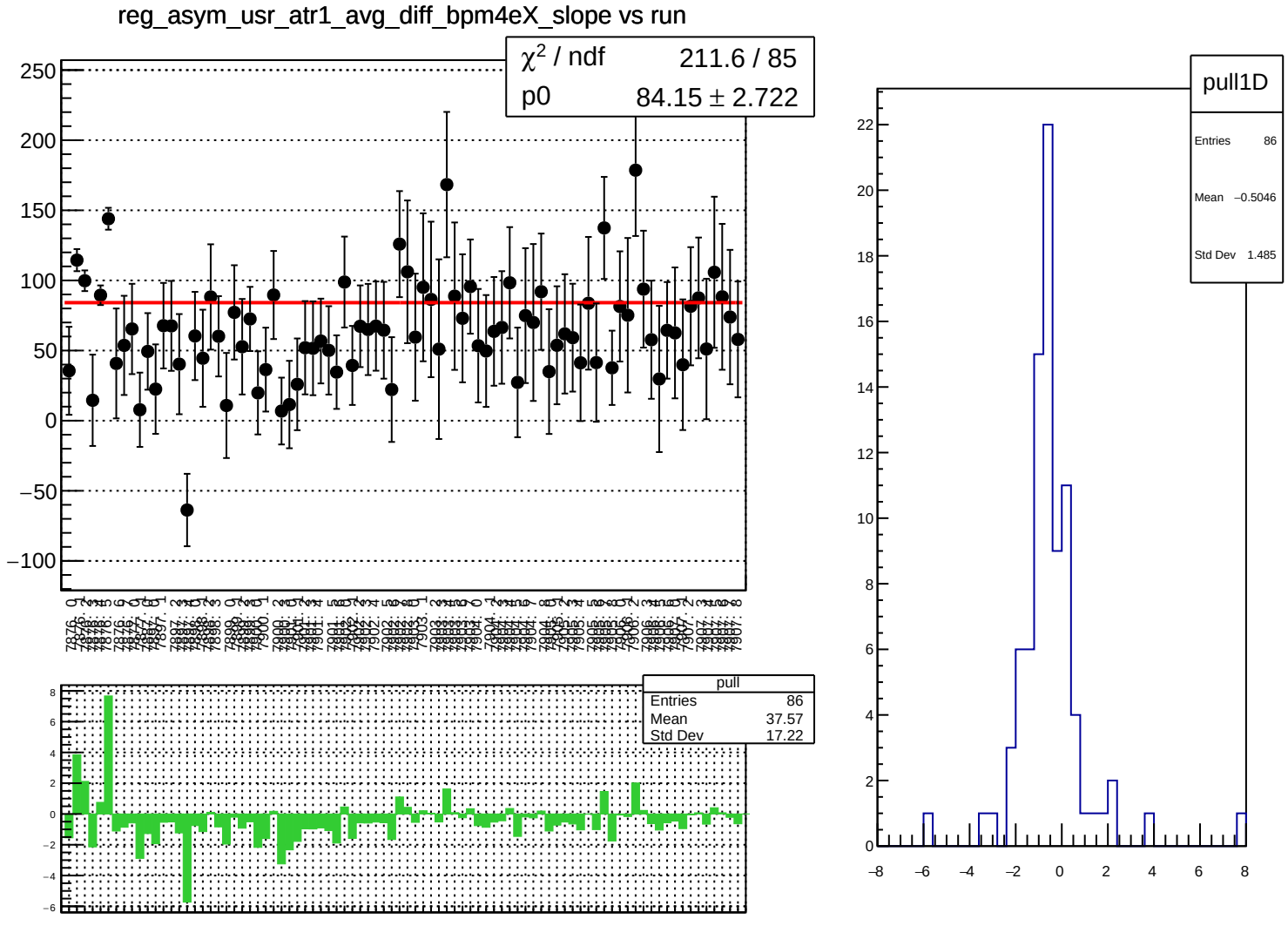

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 310.2 / 85
p0 −152.3 ± 4.393
pull
Entries 86
Mean 50.88
Std Dev 14.64
pull1D
Entries 86
Mean 0.9746
Std Dev 1.63

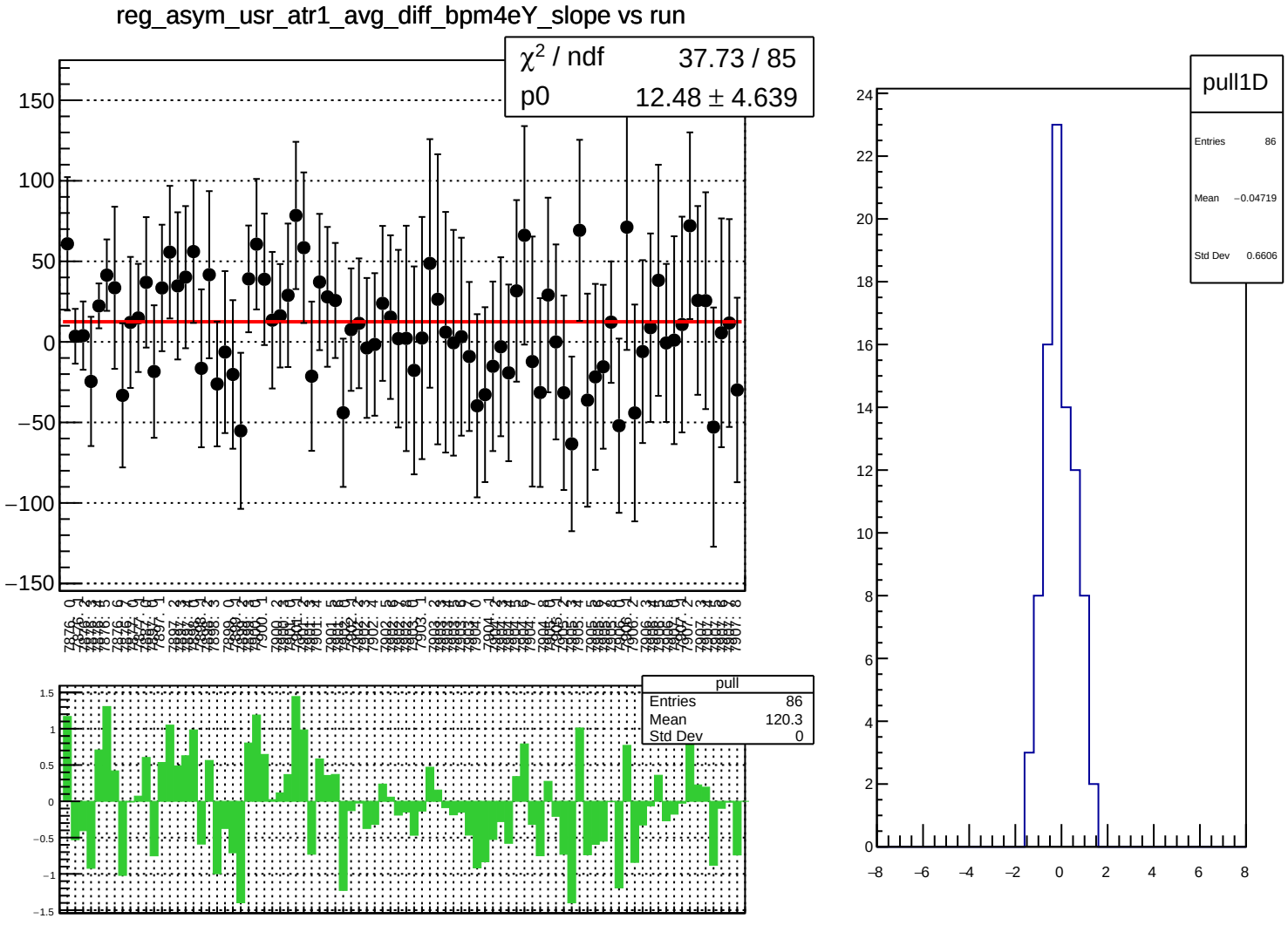

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.106 / 85
p0 −12.21± 7.432
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 65.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 86
Mean 0.03956
Std Dev 0.2635
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

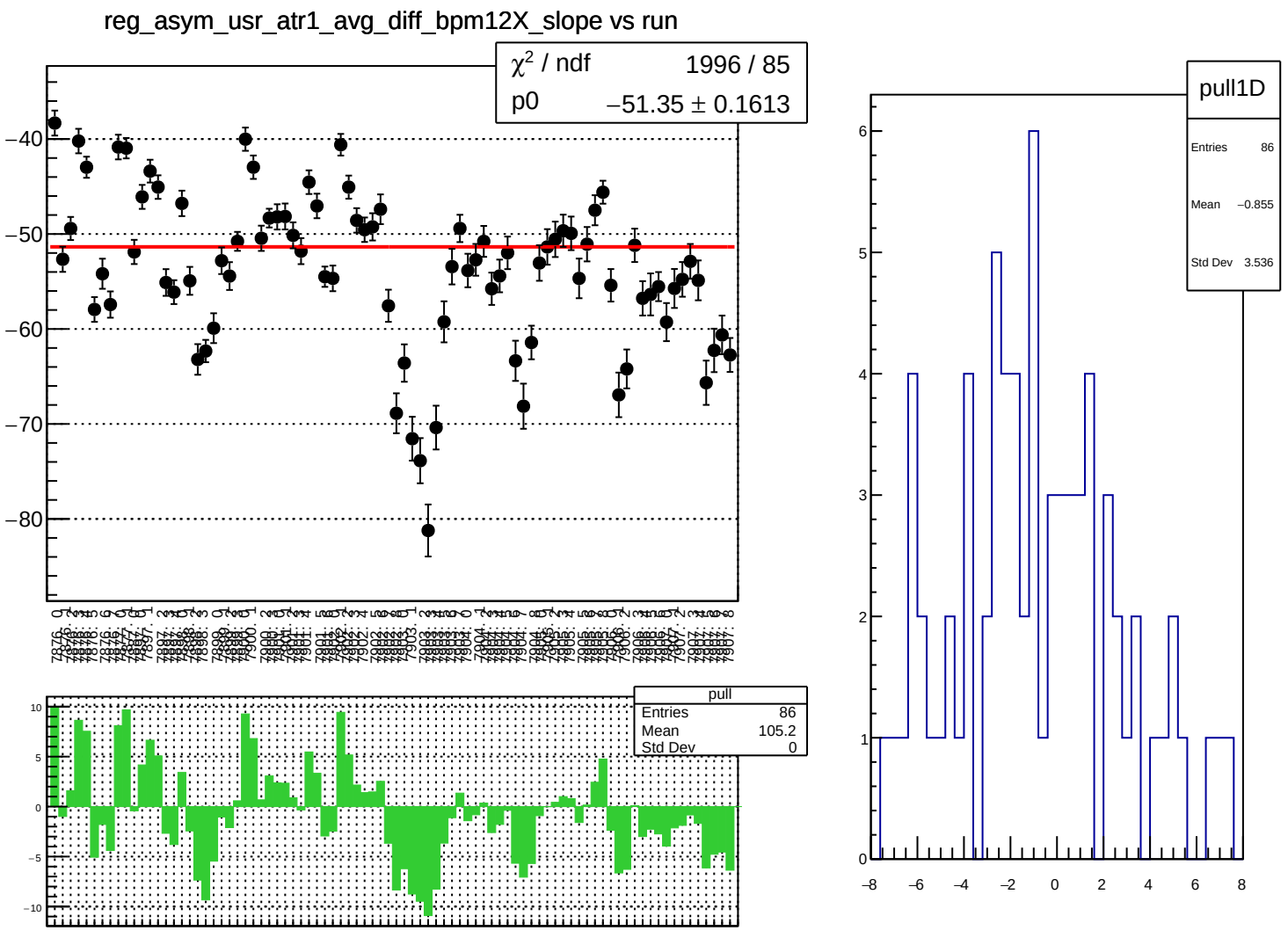

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 93.32 / 85
p0 104.1 ± 0.2554
pull
Entries 86
Mean 165.4
Std Dev 0
pull1D
Entries 86
Mean −0.06325
Std Dev 1.04

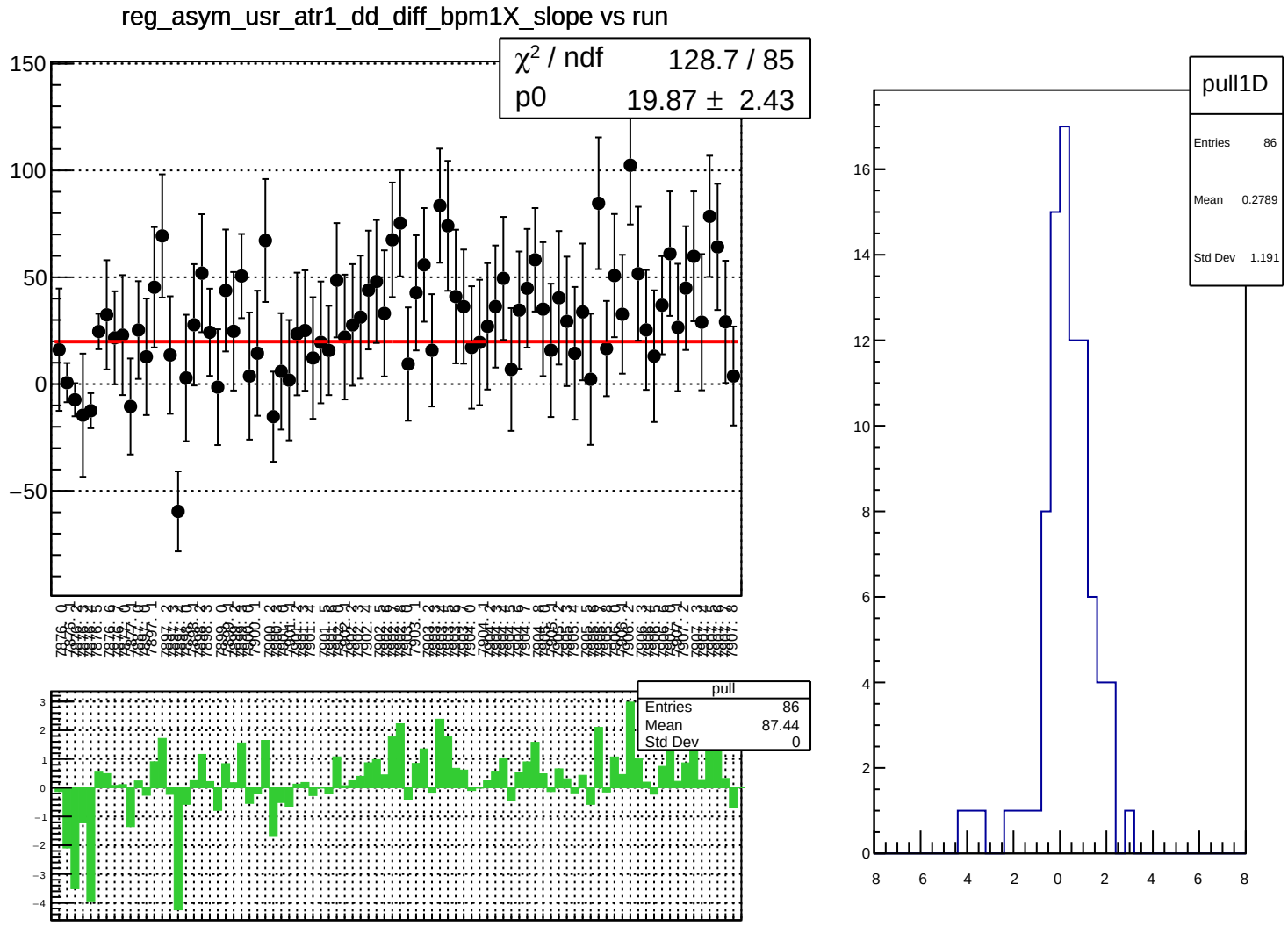

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 172.3 / 85
p0 −85.42 ± 3.408
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 86
Mean 33.21
Std Dev 14.71
6
4
2
0
−2
−4
−6
pull1D
Entries 86
Mean 0.3615
Std Dev 1.369
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

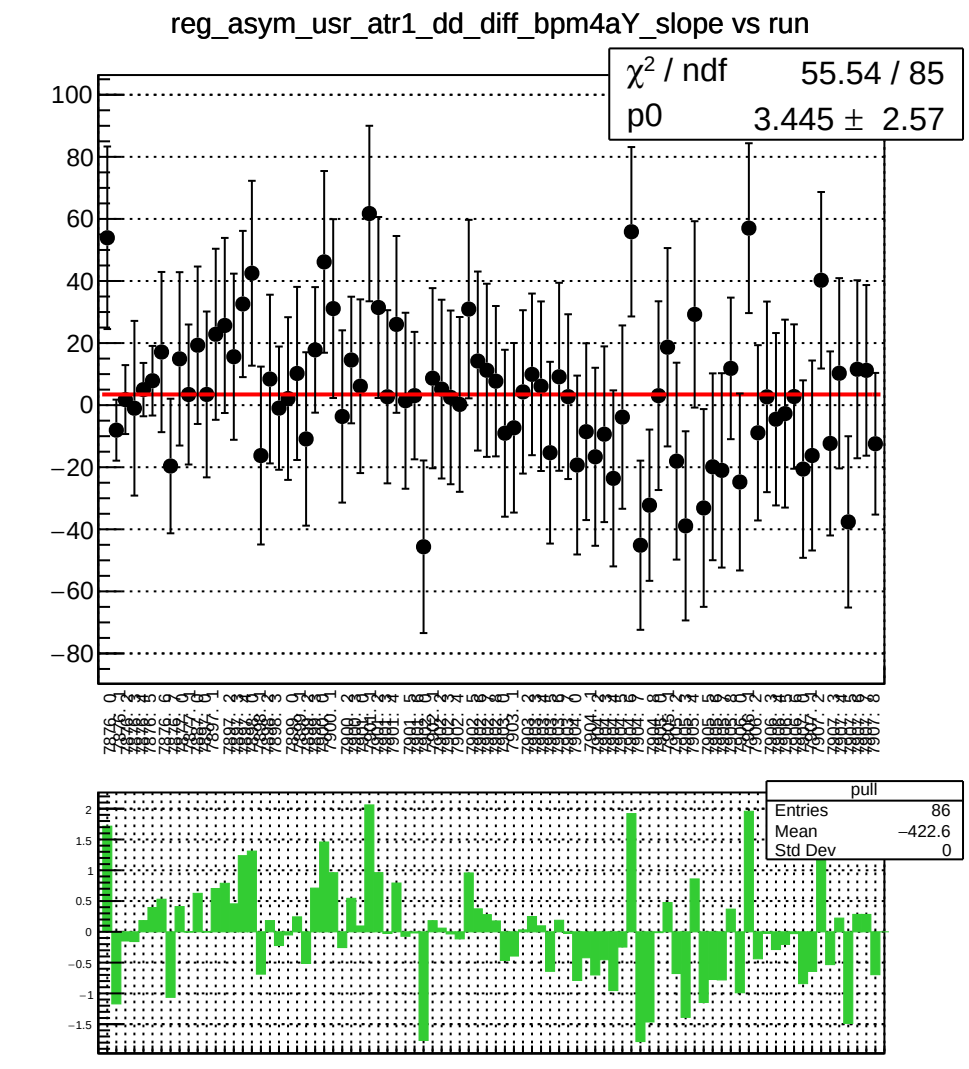

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 52 / 85
p0 10.07 ± 3.673
150
100
50
0
−50
−100
pull
Entries 86
Mean 89.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.1741
Std Dev 0.7579
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

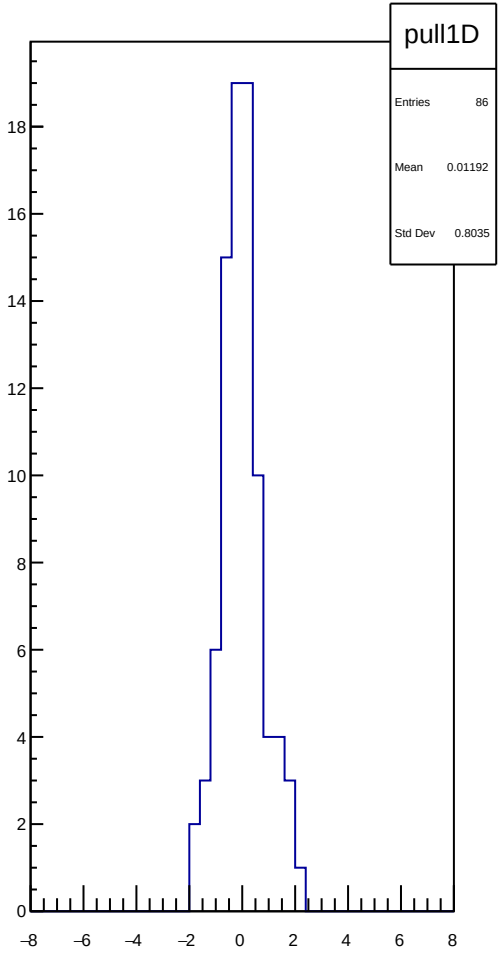

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 211.6 / 85
p0 84.15 ± 2.722
pull
Entries 86
Mean 37.57
Std Dev 17.22
pull1D
Entries 86
Mean −0.5046
Std Dev 1.485

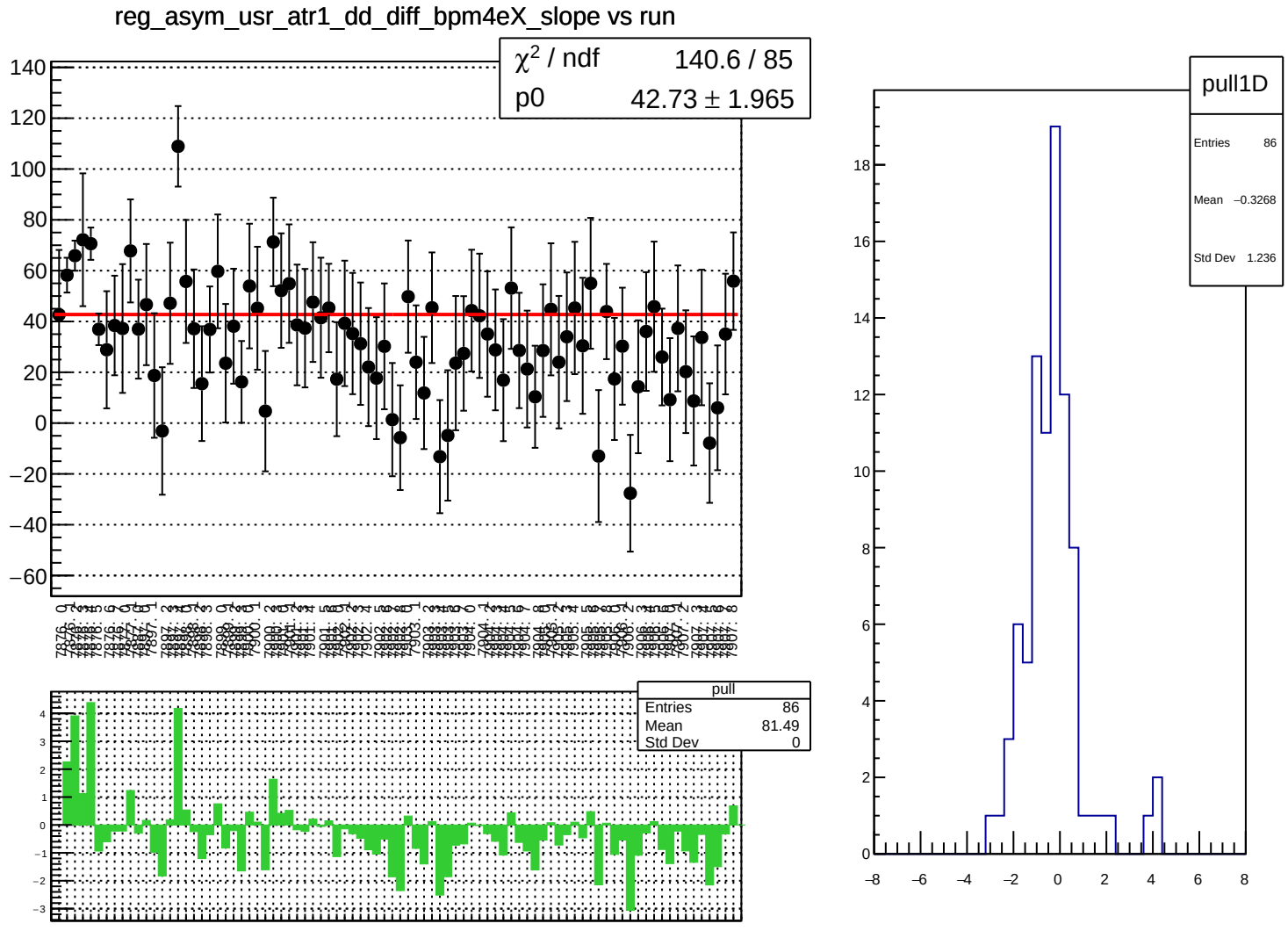

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.73 / 85
p0 12.48 ± 4.639
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 120.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean −0.04719
Std Dev 0.6606
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

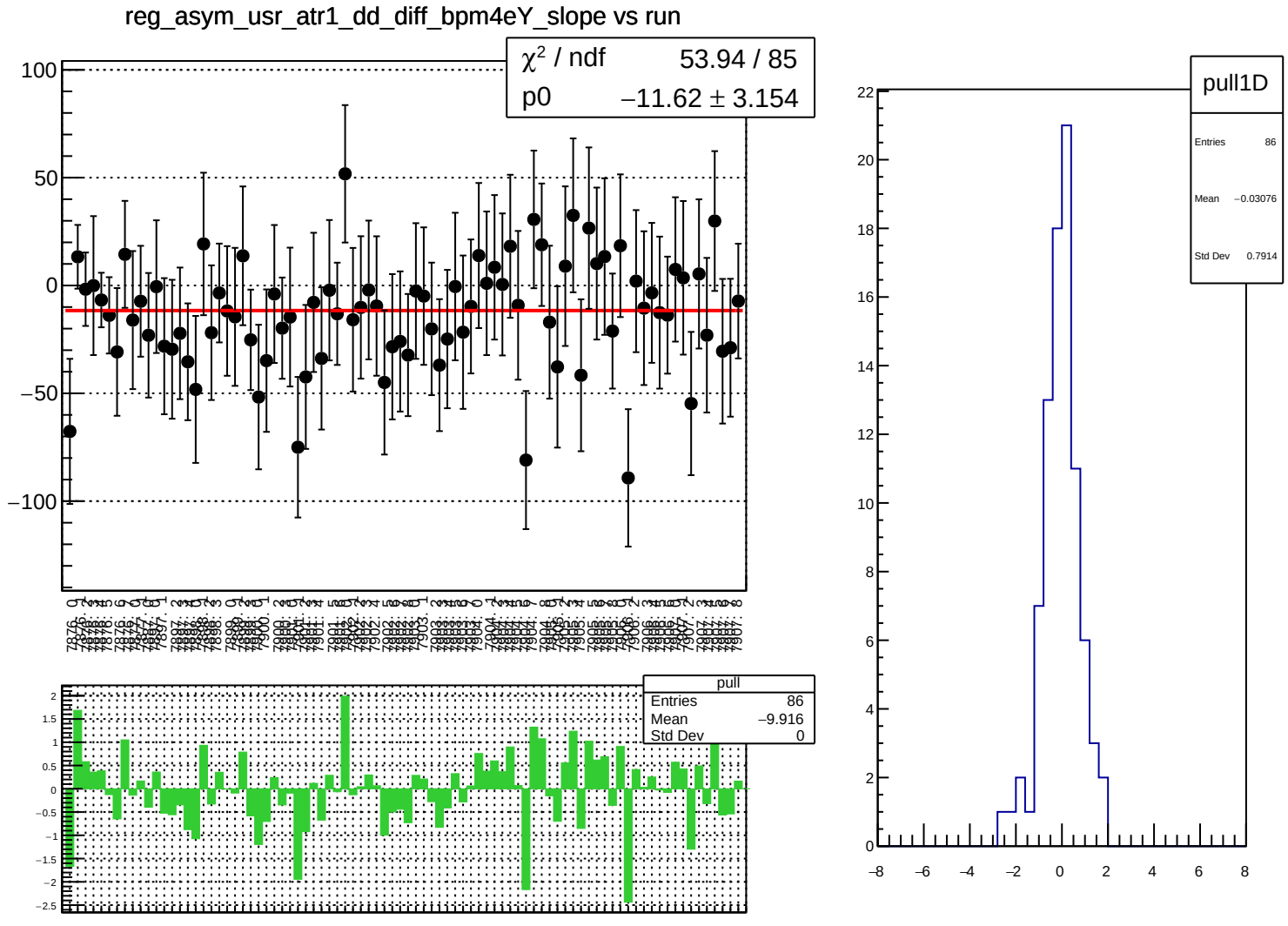

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 1996 / 85
p0 −51.35 ± 0.1613
pull
Entries 86
Mean 105.2
Std Dev 0
pull1D
Entries 86
Mean −0.855
Std Dev 3.536

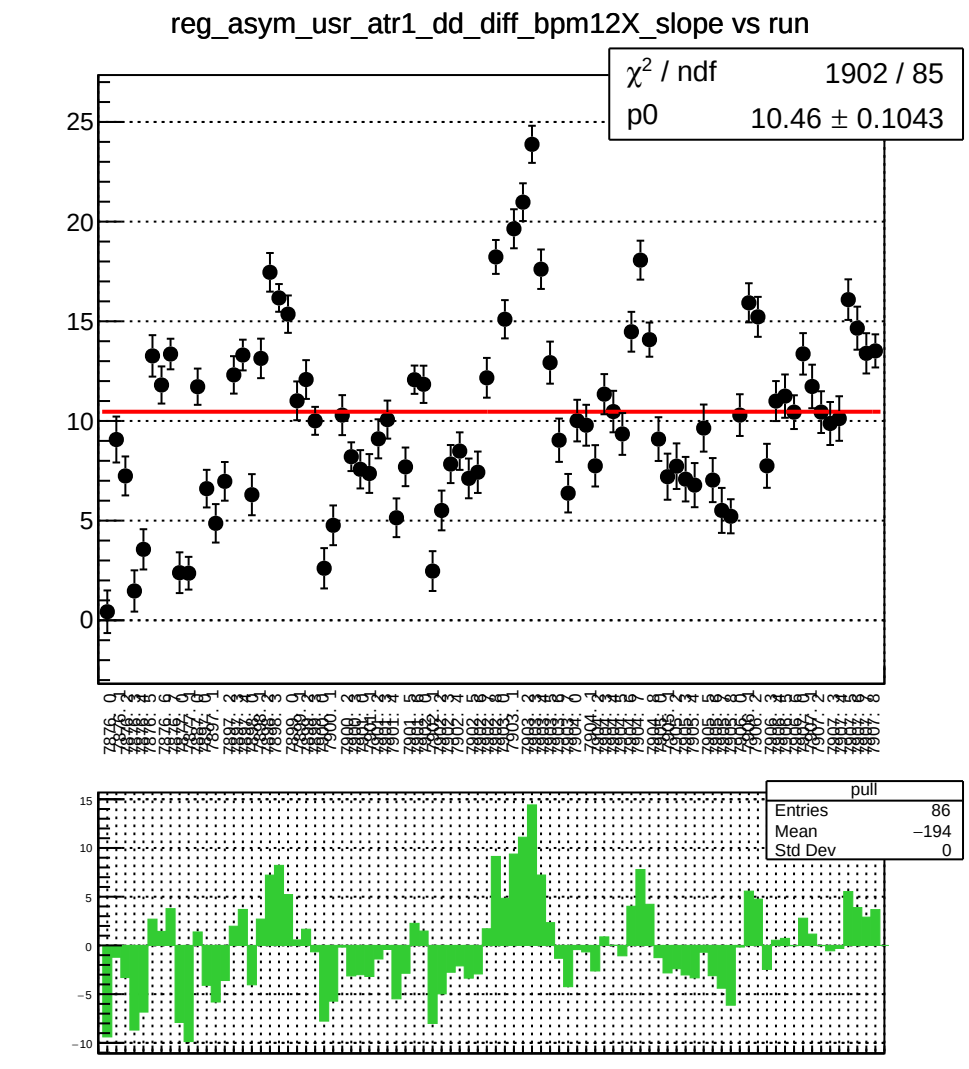

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 128.7 / 85
p0 19.87 ± 2.43
150
100
50
0
−50
pull
Entries 86
Mean 87.44
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean 0.2789
Std Dev 1.191
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

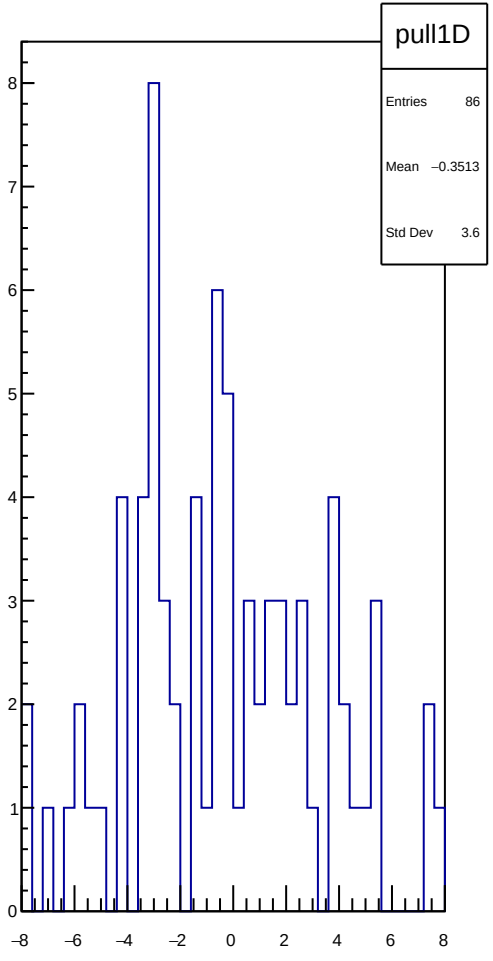

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.54 / 85
p0 3.445 ± 2.57
pull
Entries 86
Mean −422.6
Std Dev 0

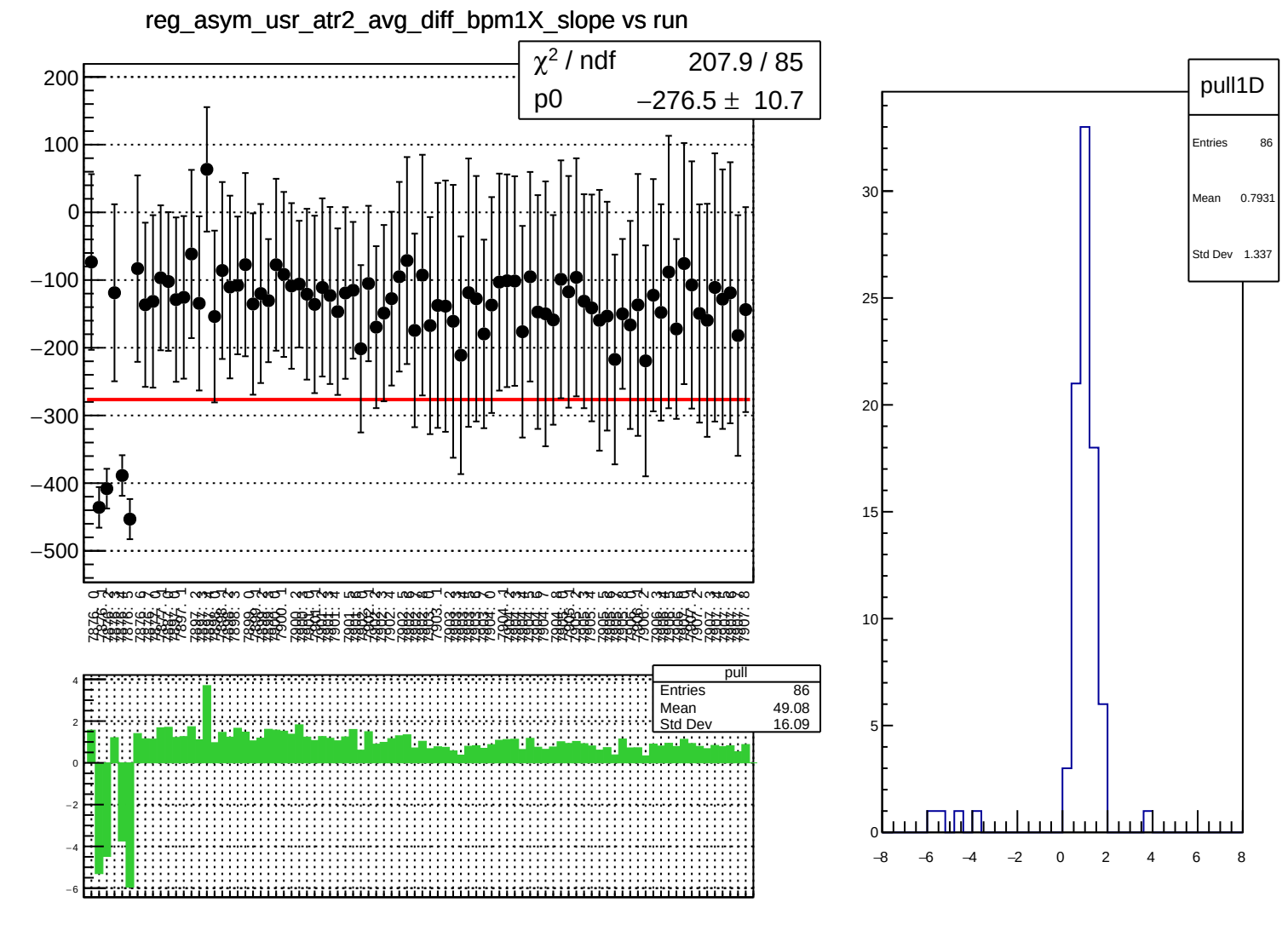

pull1D
Entries 86
Mean 0.01192
Std Dev 0.8035

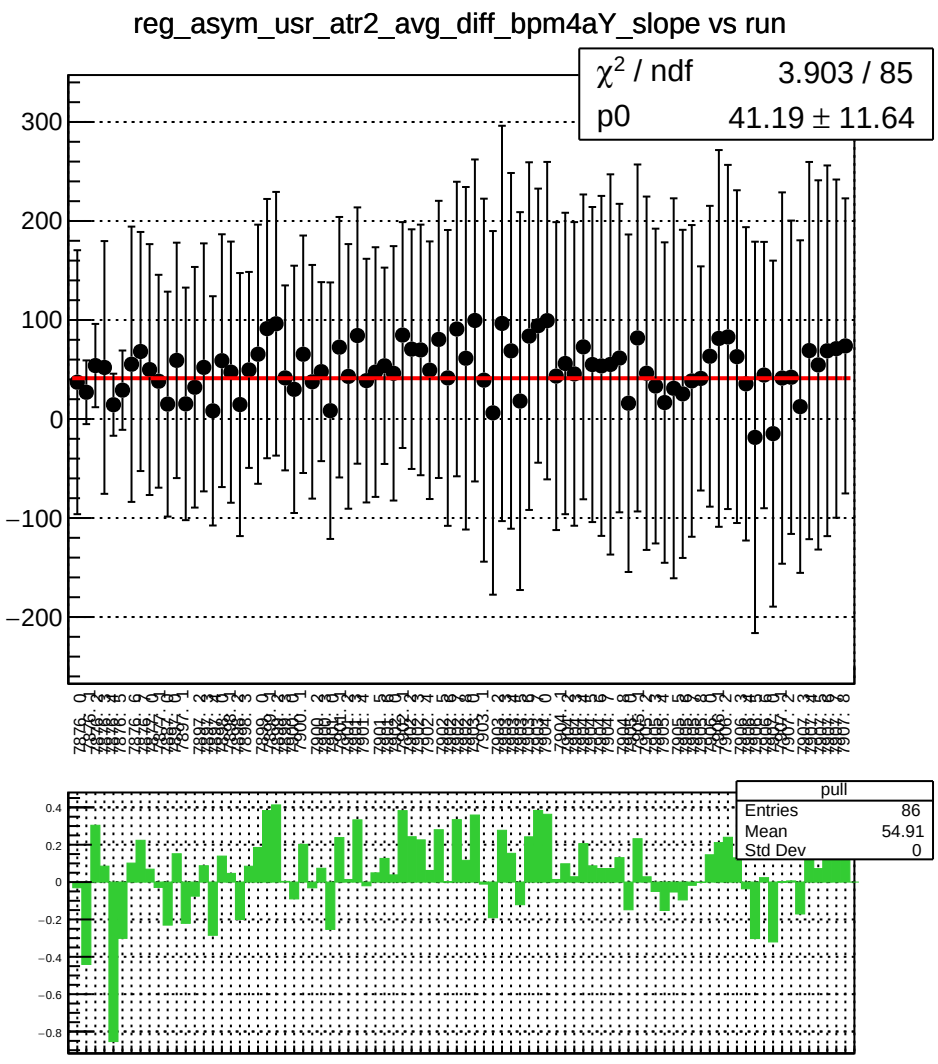

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 140.6 / 85
p0 42.73 ± 1.965
pull
Entries 86
Mean 81.49
Std Dev 0
pull1D
Entries 86
Mean −0.3268
Std Dev 1.236

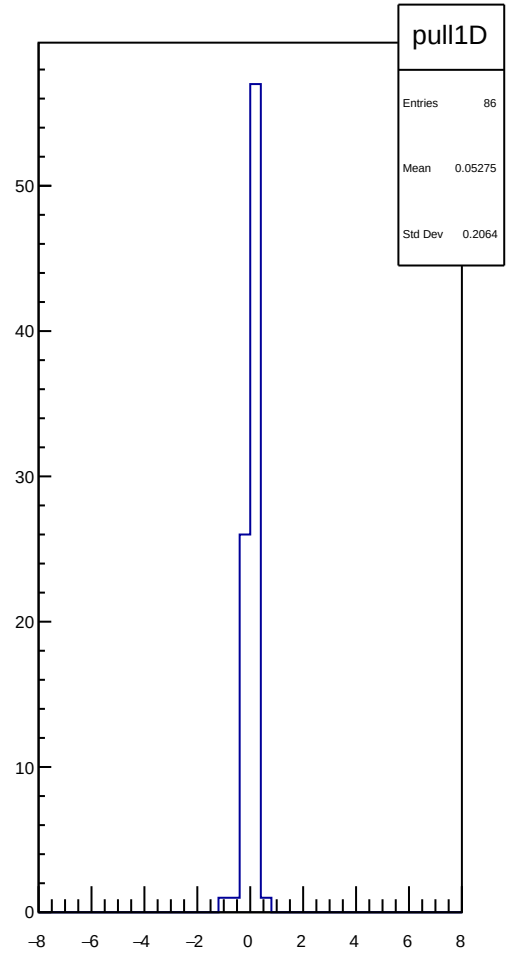

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.94 / 85
p0 −11.62 ± 3.154
pull
Entries 86
Mean −9.916
Std Dev 0
pull1D
Entries 86
Mean −0.03076
Std Dev 0.7914

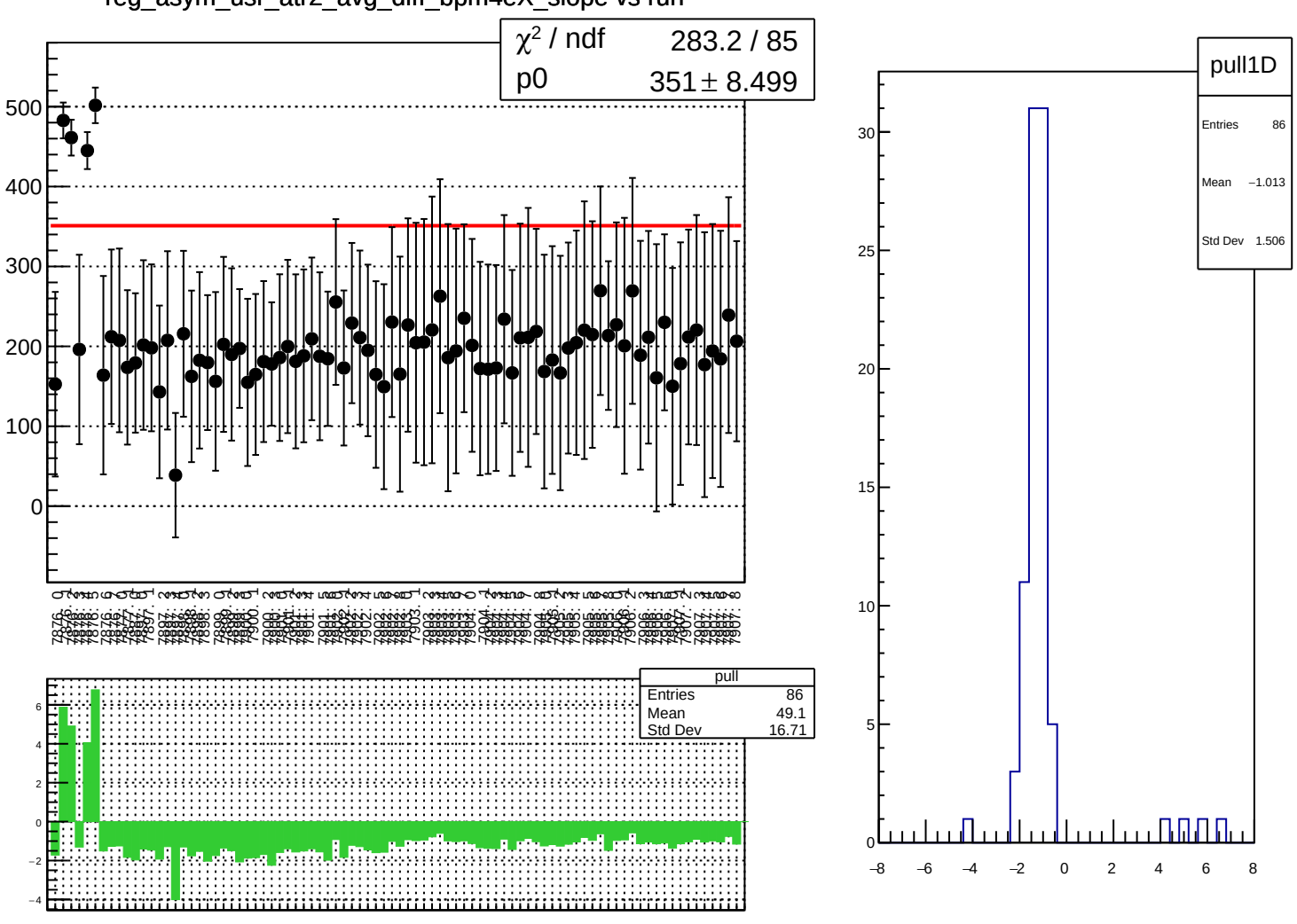

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 1902 / 85
p0 10.46 ± 0.1043
pull
Entries 86
Mean −194
Std Dev 0

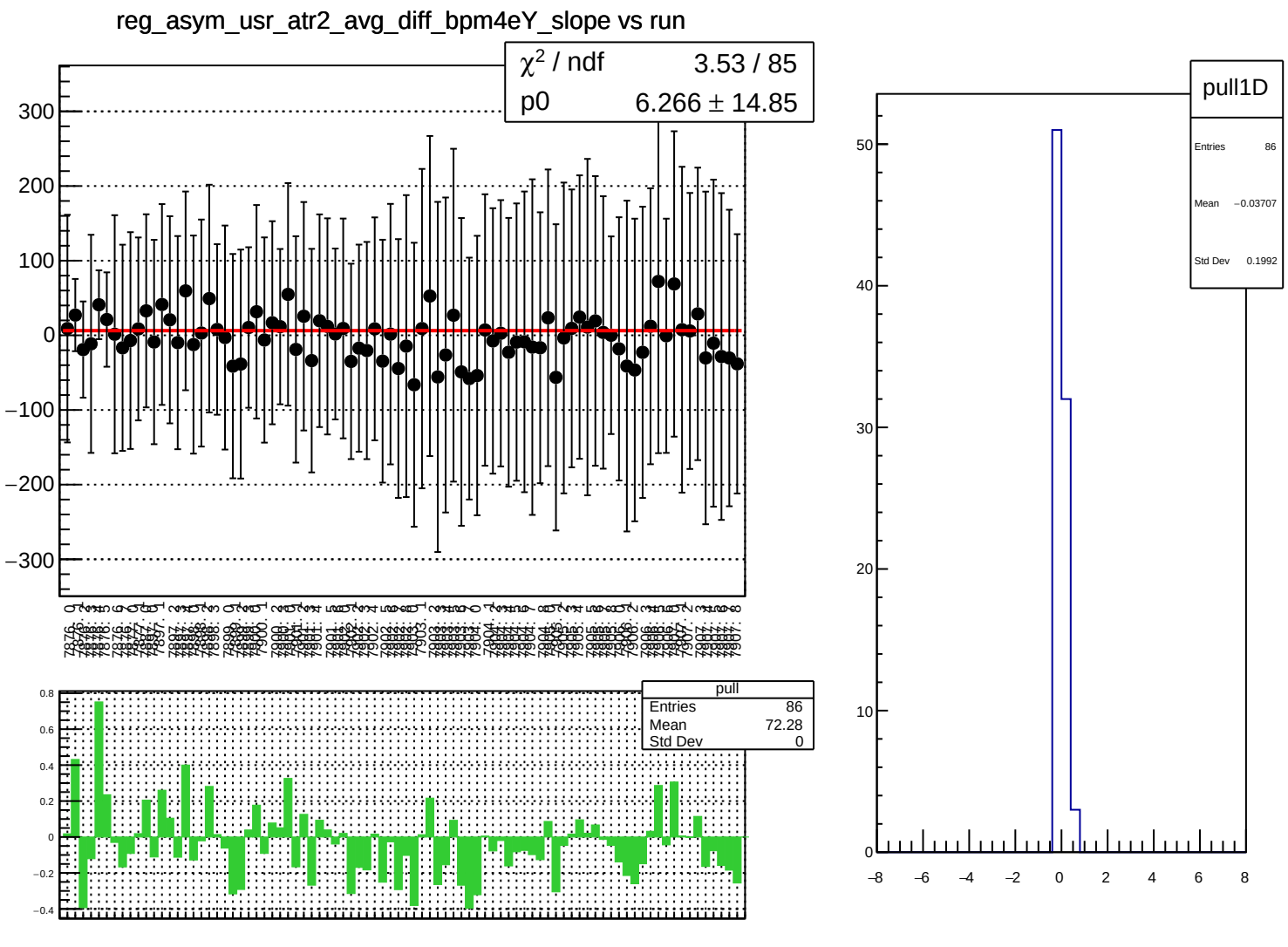

pull1D
Entries 86
Mean −0.3513
Std Dev 3.6

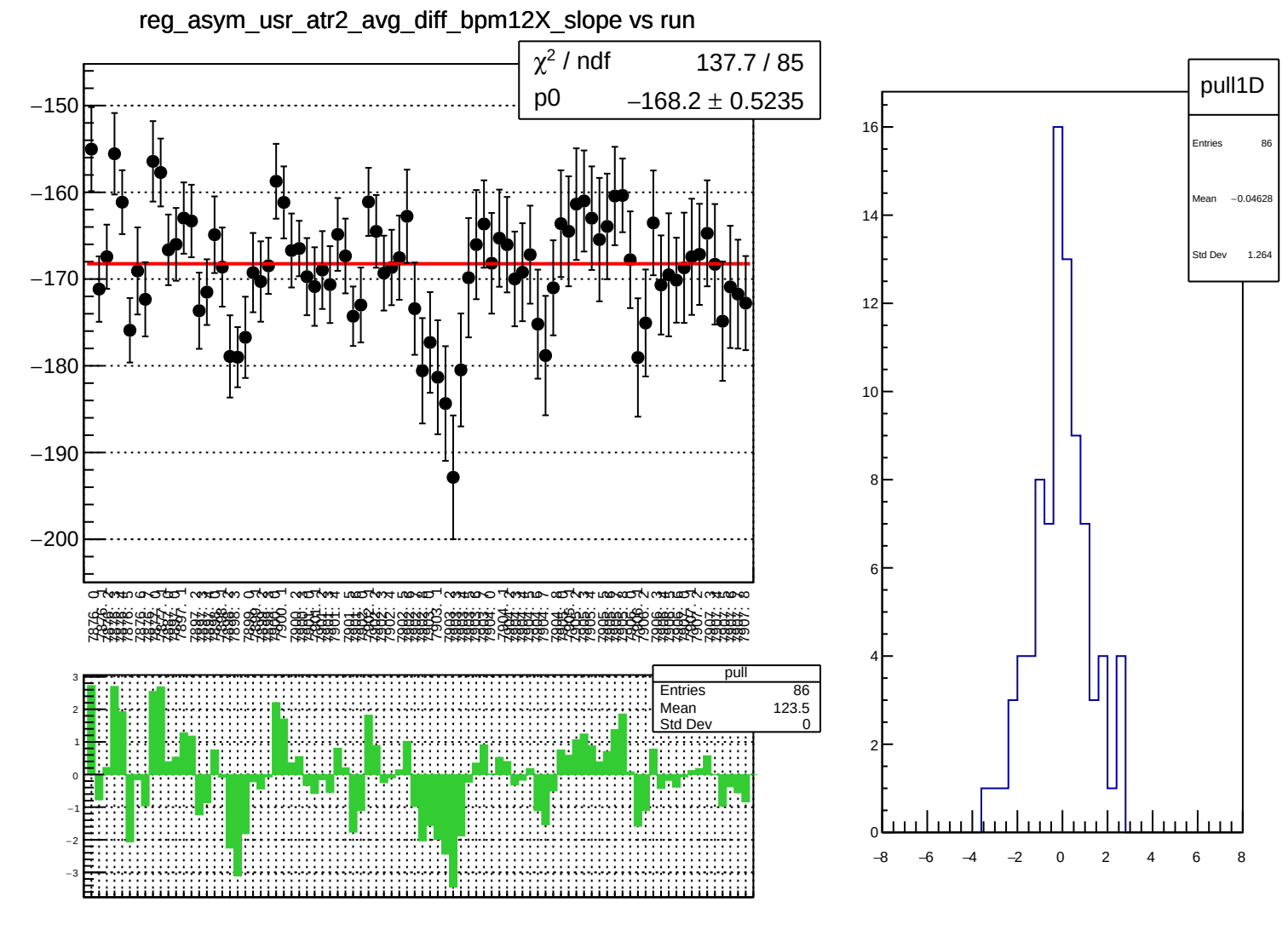

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 207.9 / 85
p0 −276.5 ± 10.7
pull
Entries 86
Mean 49.08
Std Dev 16.09
pull1D
Entries 86
Mean 0.7931
Std Dev 1.337

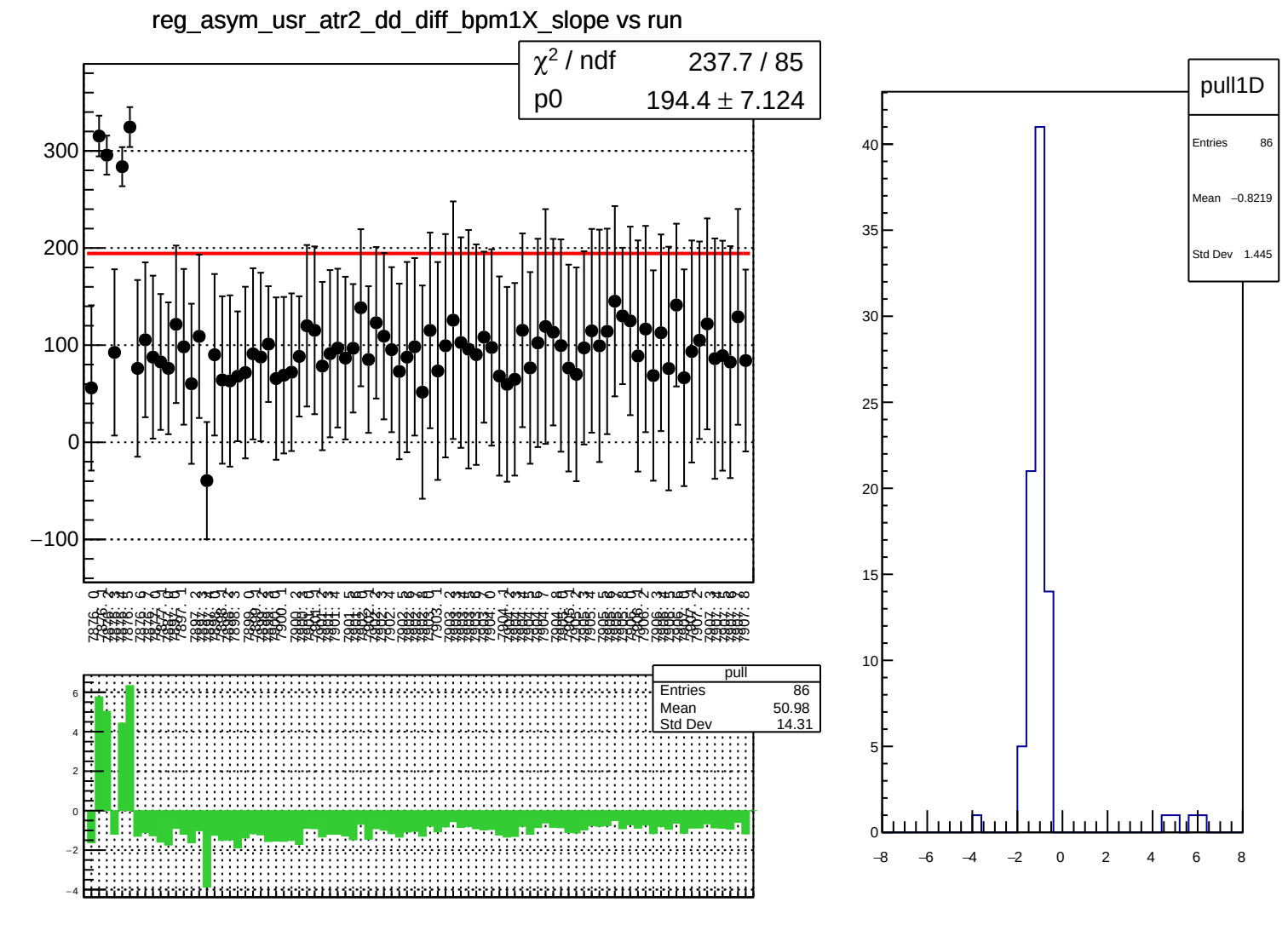

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.903 / 85
p0 41.19 ± 11.64
300
200
100
0
−100
−200
pull
Entries 86
Mean 54.91
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

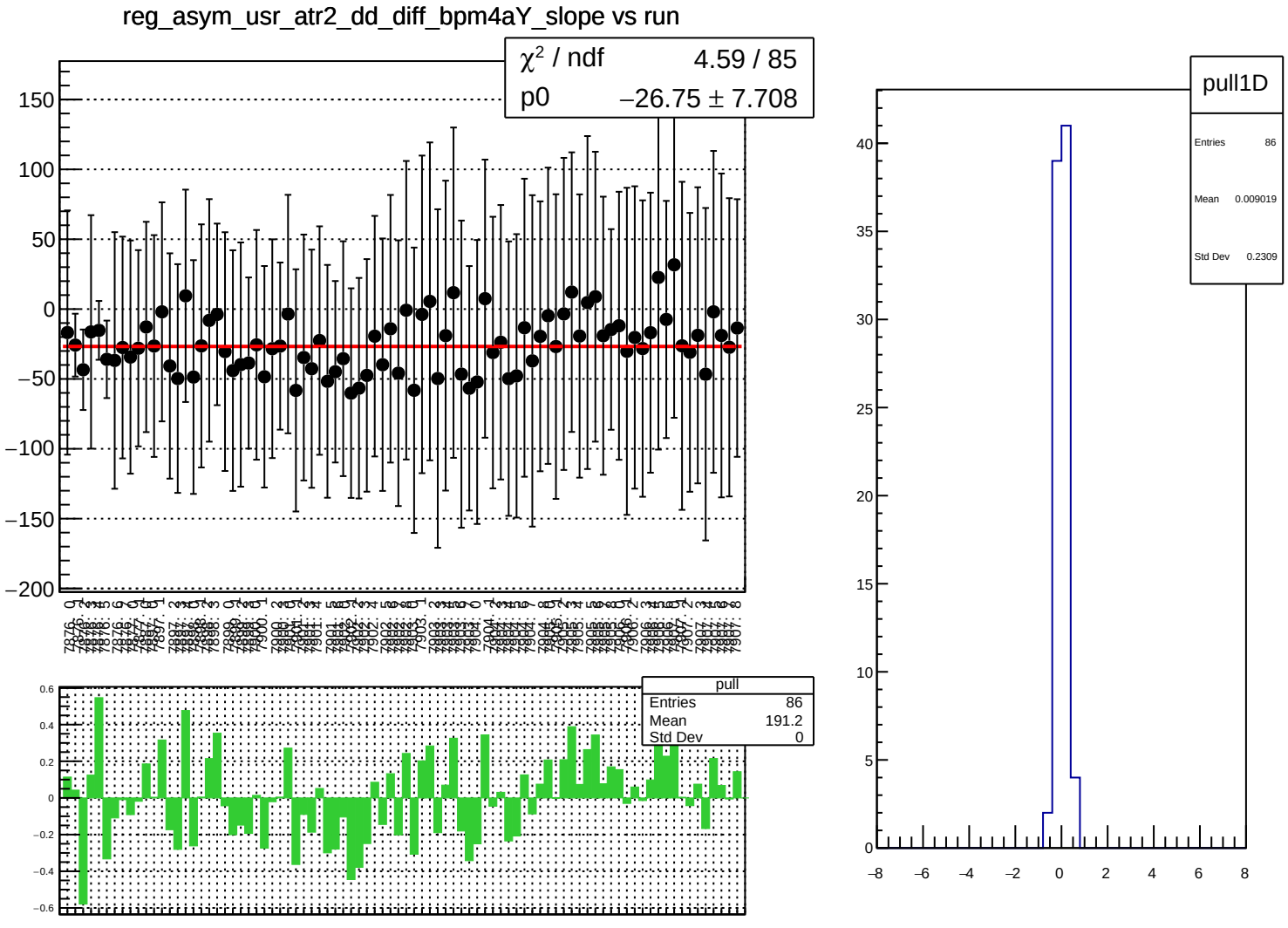

pull1D
Entries 86
Mean 0.05275
Std Dev 0.2064
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

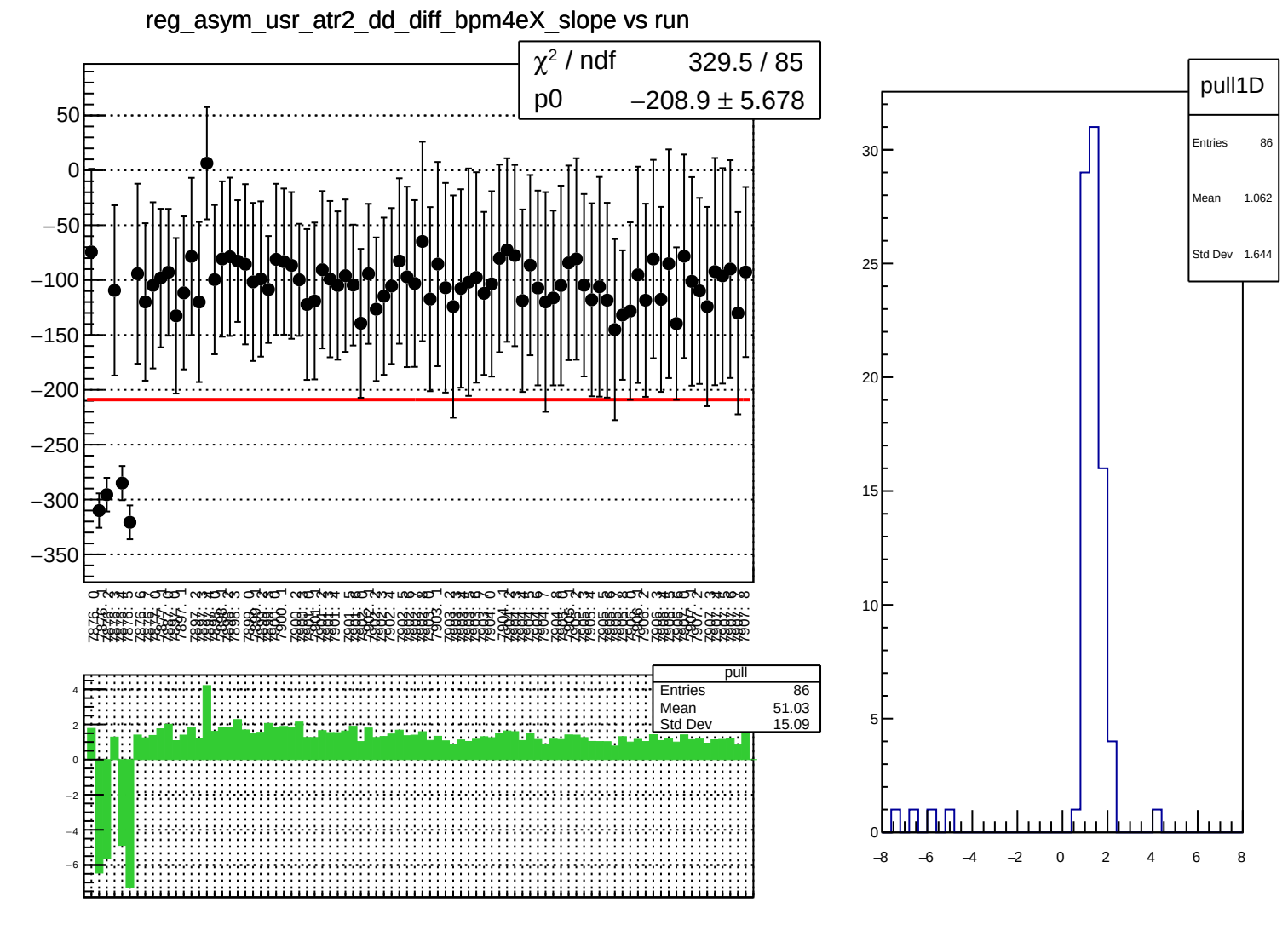

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 283.2 / 85
p0 351 ± 8.499
pull
Entries 86
Mean 49.1
Std Dev 16.71
pull1D
Entries 86
Mean −1.013
Std Dev 1.506

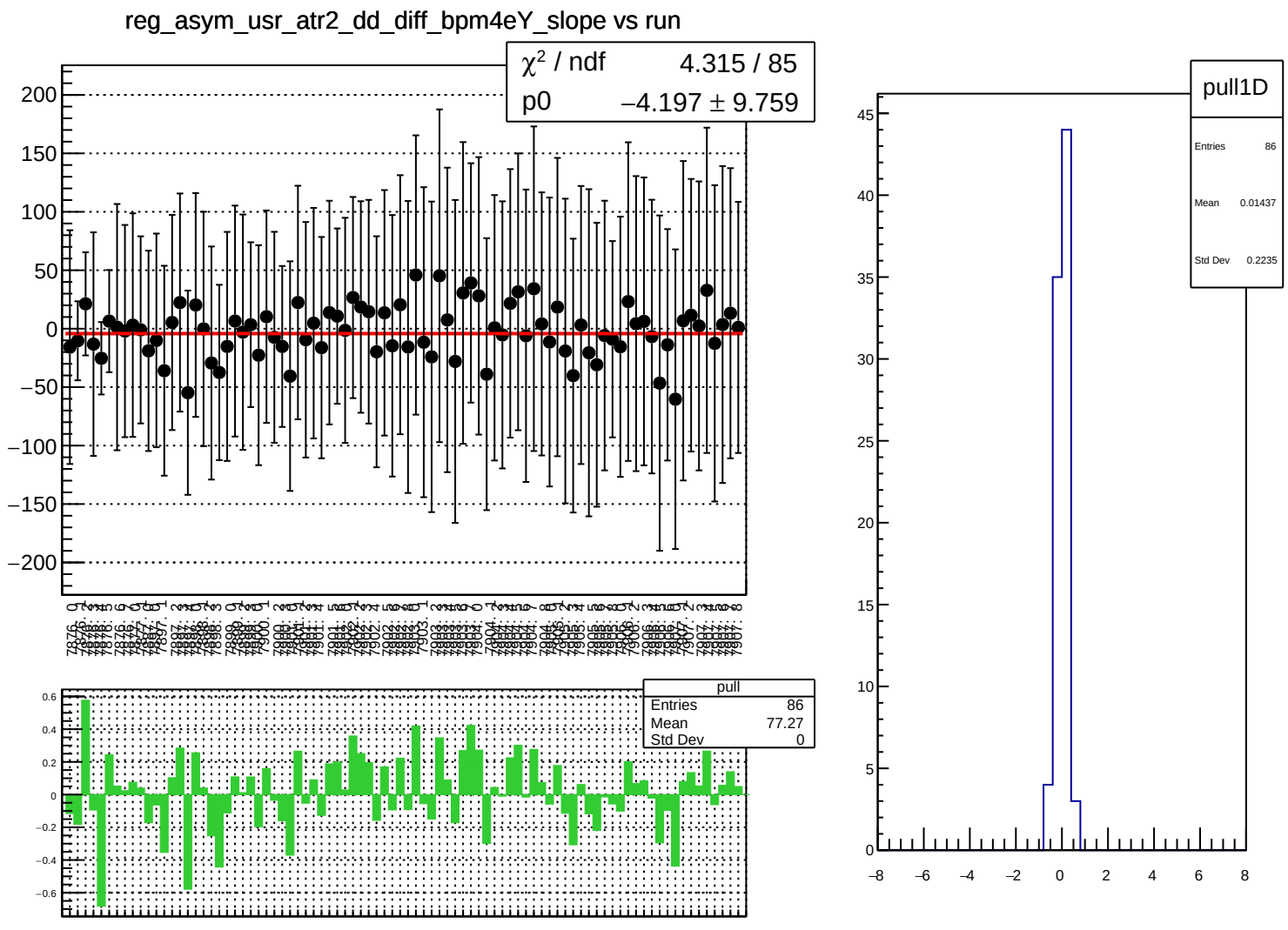

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.53 / 85
p0 6.266 ± 14.85
pull
Entries 86
Mean 72.28
Std Dev 0
pull1D
Entries 86
Mean −0.03707
Std Dev 0.1992

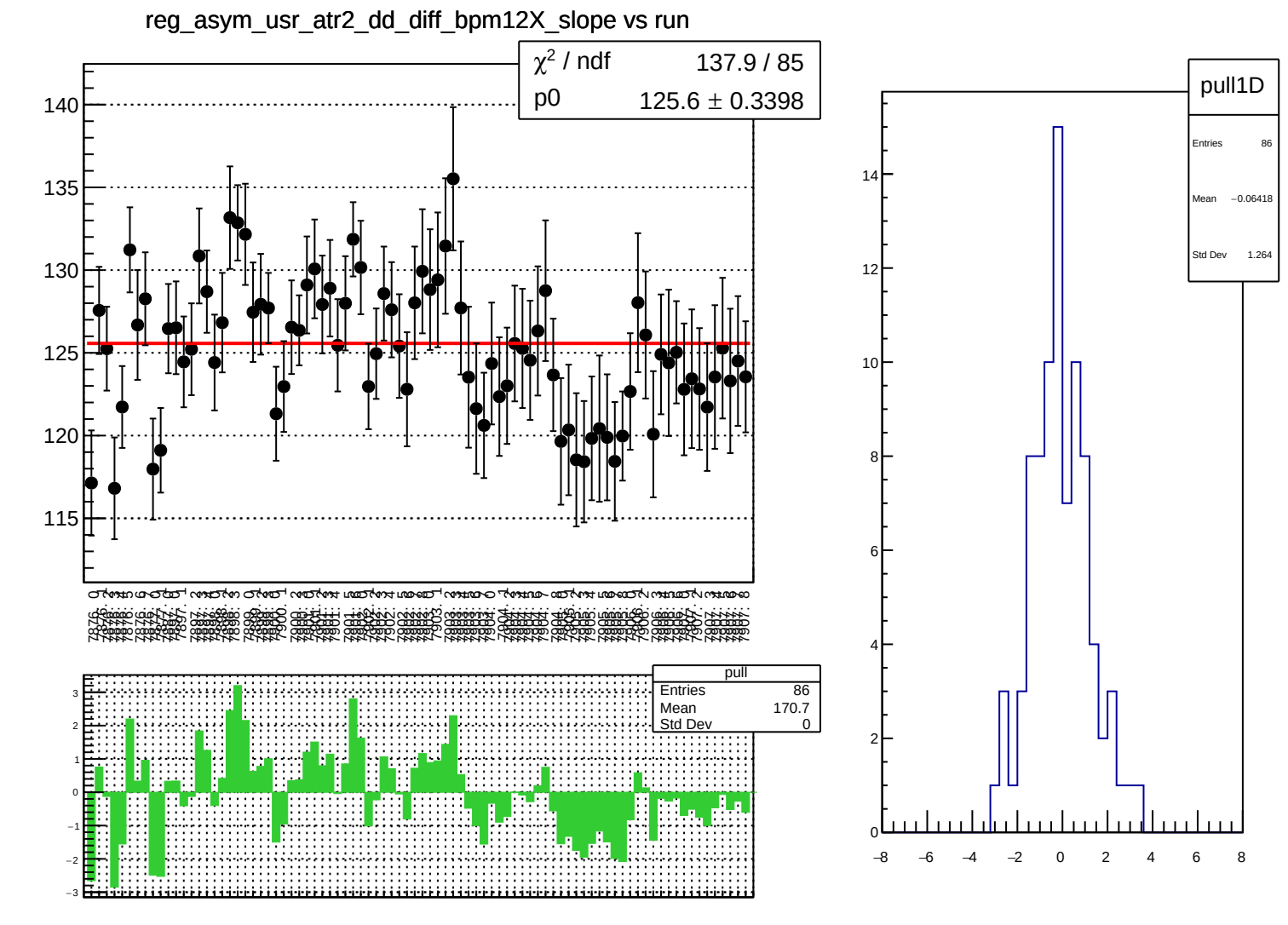

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 137.7 / 85
p0 −168.2 ± 0.5235
−150
−160
−170
−180
−190
−200
pull
Entries 86
Mean 123.5
Std Dev 0
pull1D
Entries 86
Mean −0.04628
Std Dev 1.264

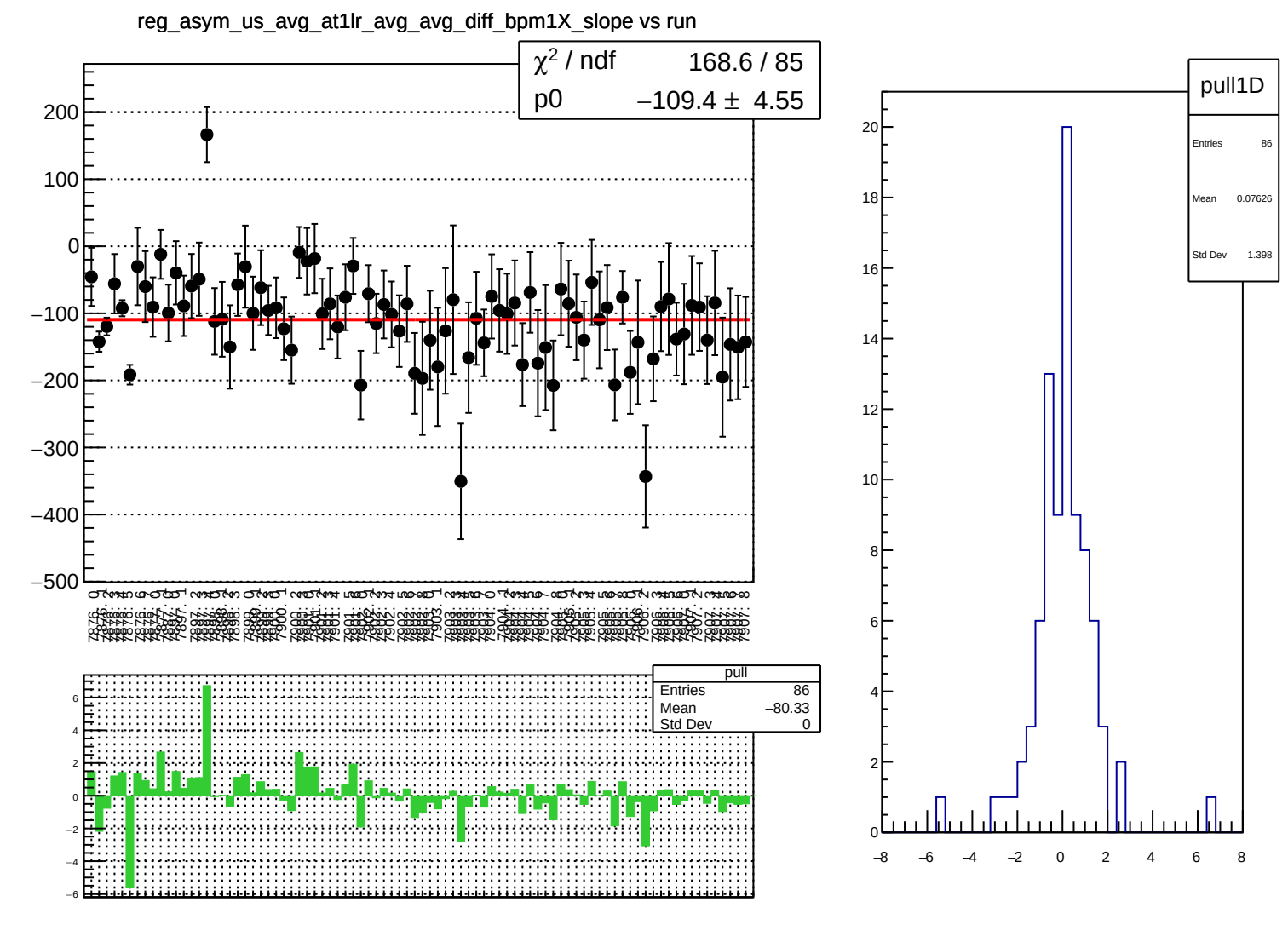

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 237.7 / 85
p0 194.4 ± 7.124
300
200
100
0
−100
pull
Entries 86
Mean 50.98
Std Dev 14.31
6
4
2
0
−2
−4
pull1D
Entries 86
Mean −0.8219
Std Dev 1.445
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

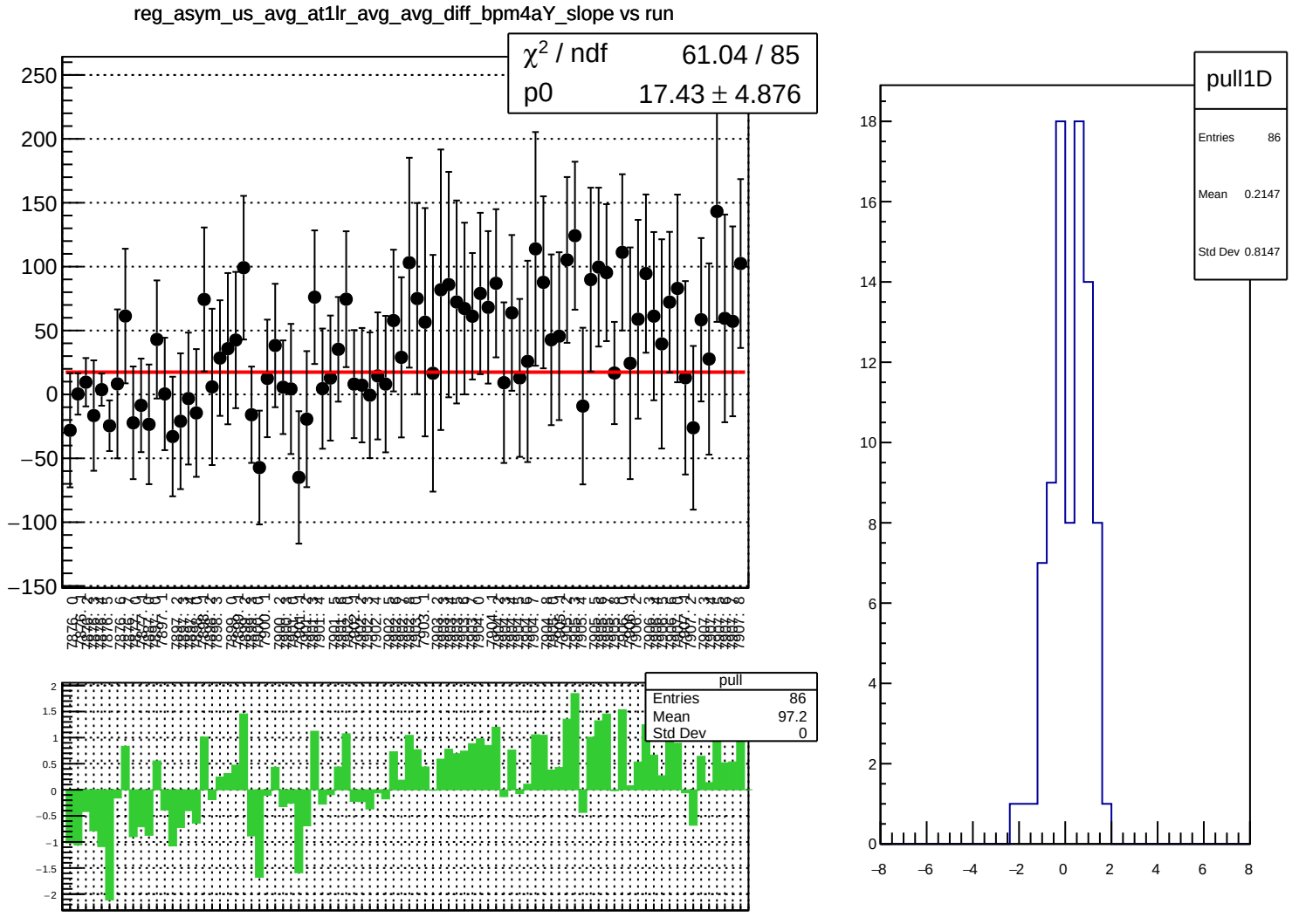

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.59 / 85
p0 −26.75 ± 7.708
pull
Entries 86
Mean 191.2
Std Dev 0
pull1D
Entries 86
Mean 0.009019
Std Dev 0.2309

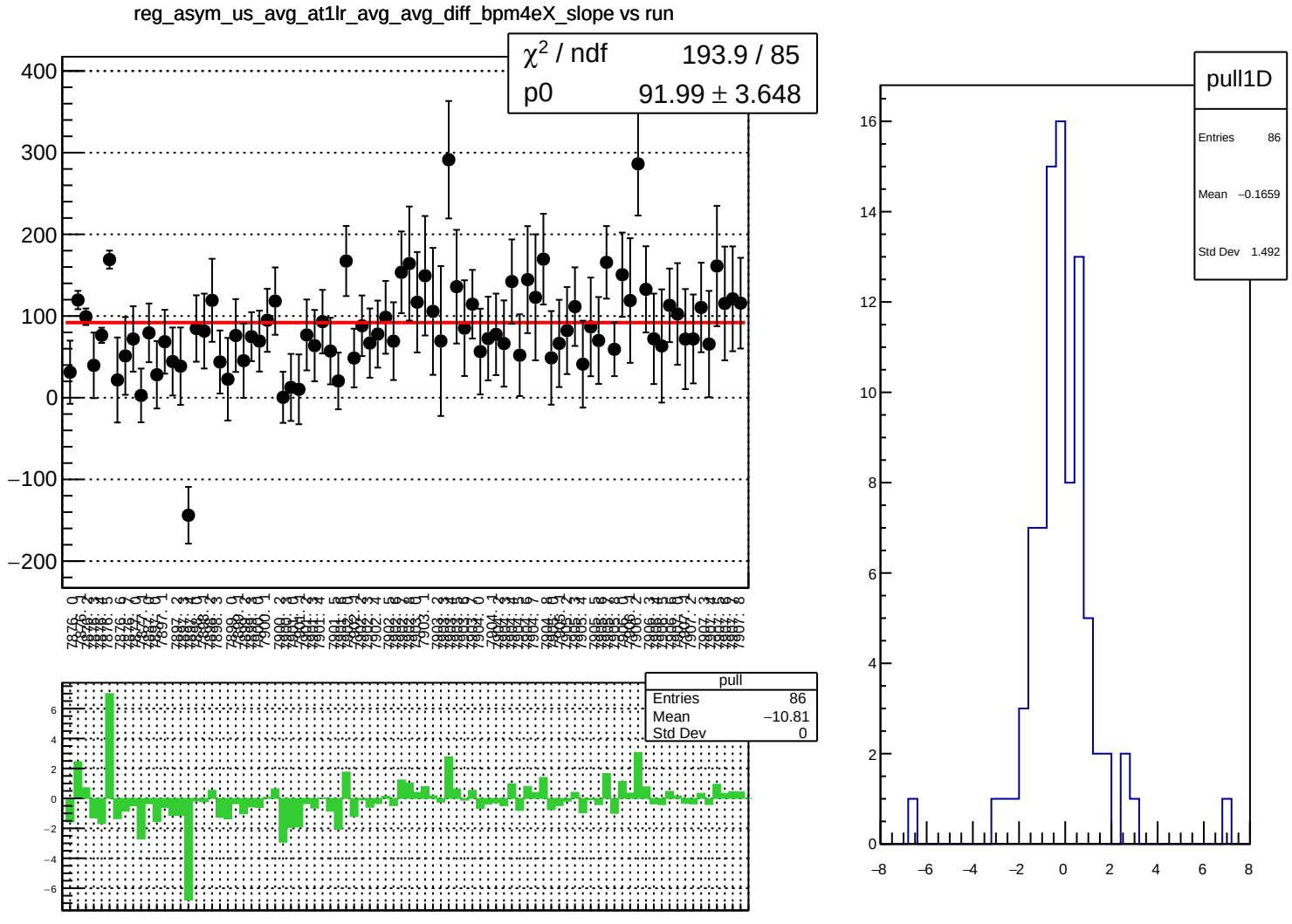

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 329.5 / 85
p0 −208.9 ± 5.678
pull
Entries 86
Mean 51.03
Std Dev 15.09
pull1D
Entries 86
Mean 1.062
Std Dev 1.644

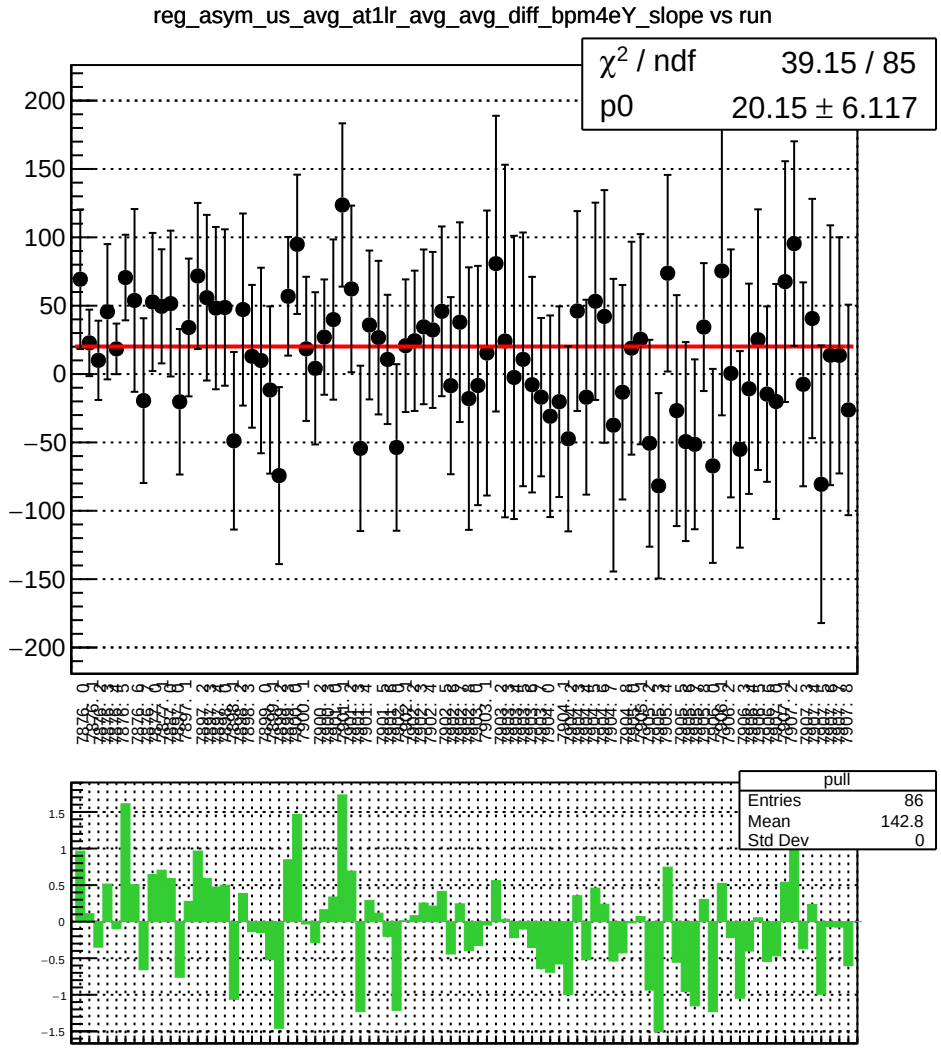

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.315 / 85
p0 −4.197 ± 9.759
pull
Entries 86
Mean 77.27
Std Dev 0
pull1D
Entries 86
Mean 0.01437
Std Dev 0.2235

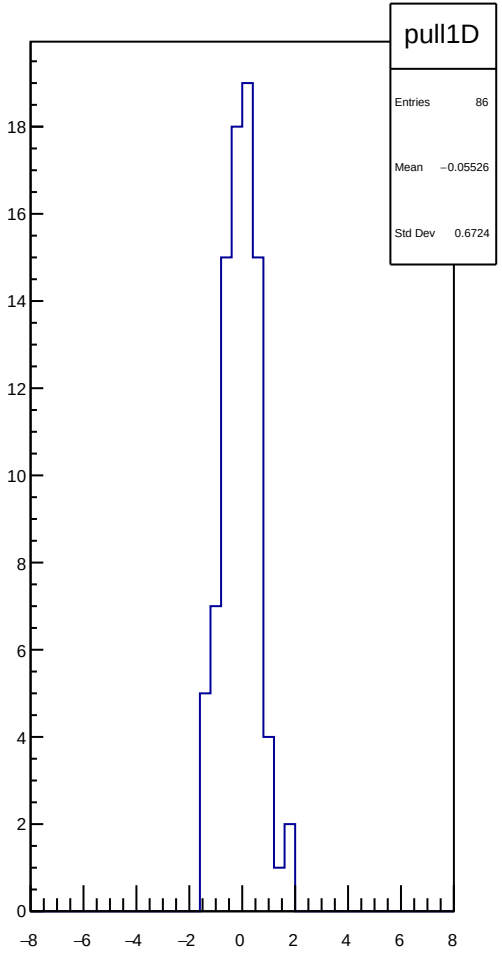

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 137.9 / 85
p0 125.6 ± 0.3398
140
135
130
125
120
115
pull
Entries 86
Mean 170.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.06418
Std Dev 1.264
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

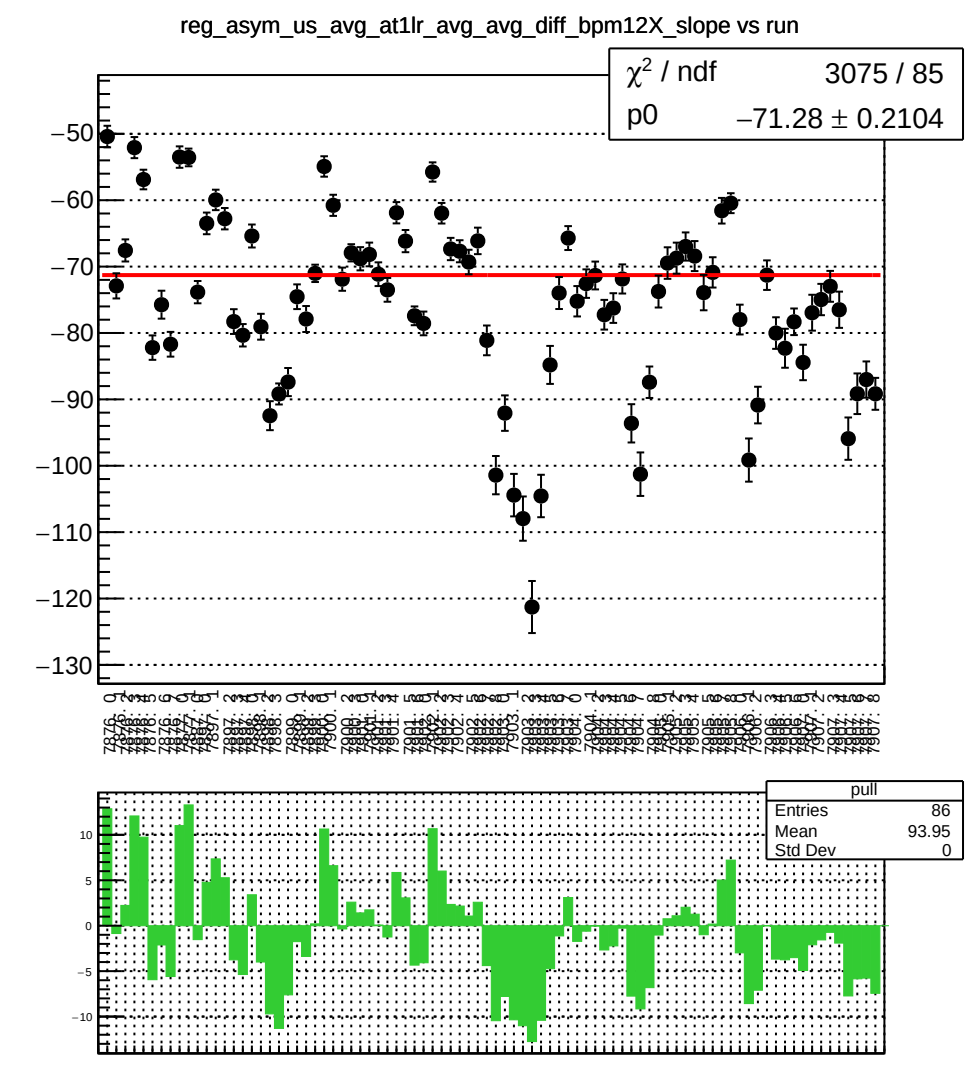

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 168.6 / 85
p0 −109.4 ± 4.55
pull
Entries 86
Mean −80.33
Std Dev 0
pull1D
Entries 86
Mean 0.07626
Std Dev 1.398

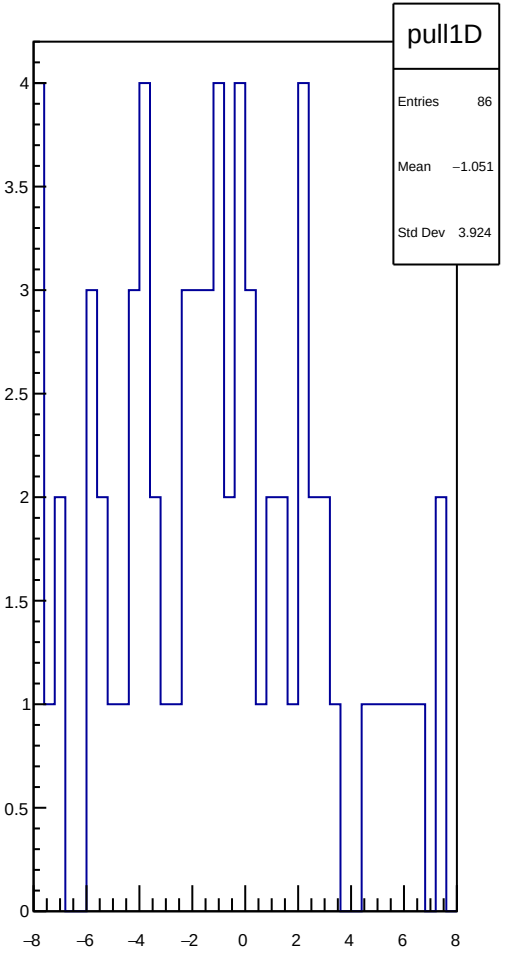

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.04 / 85
p0 17.43 ± 4.876
pull
Entries 86
Mean 97.2
Std Dev 0
pull1D
Entries 86
Mean 0.2147
Std Dev 0.8147

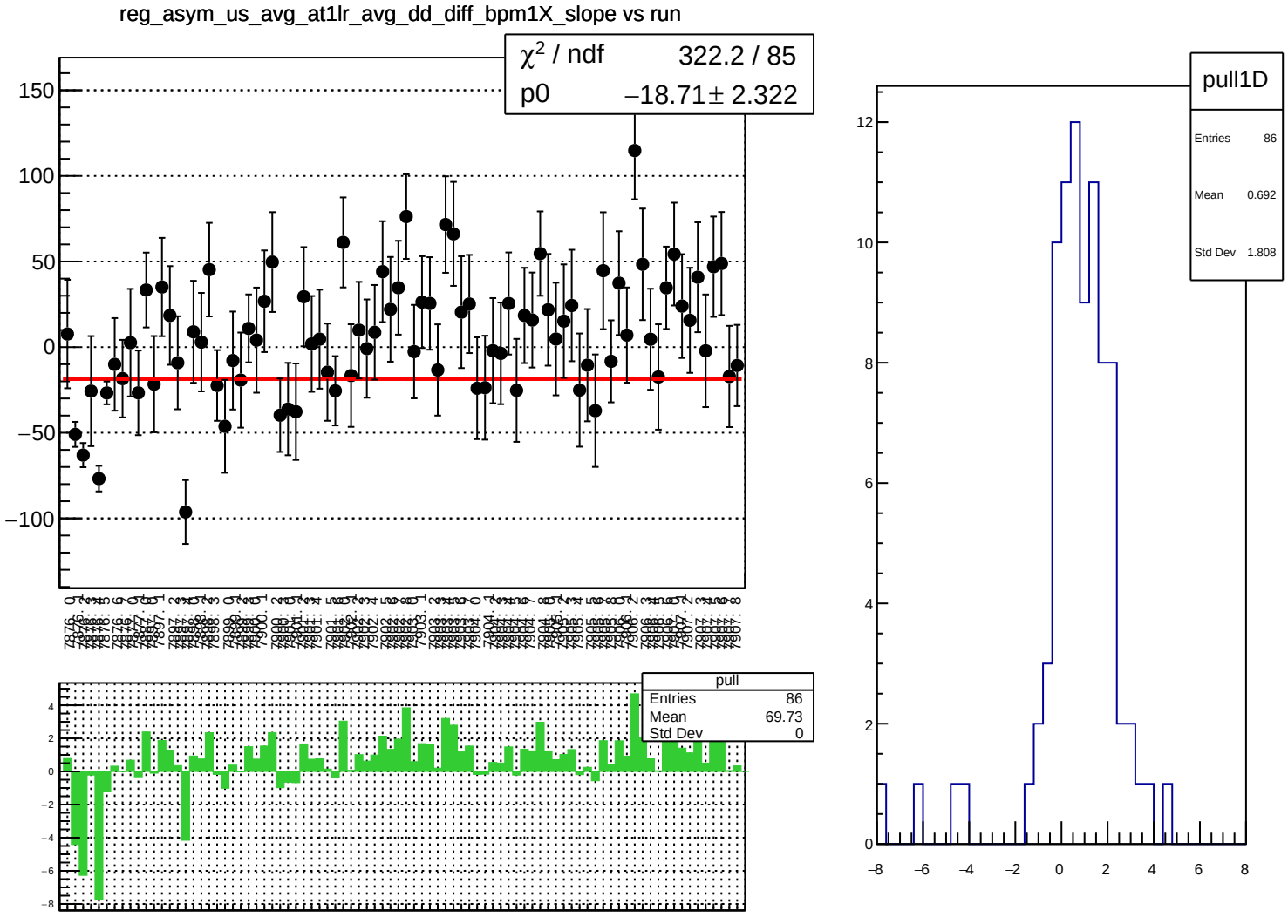

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 193.9 / 85
p0 91.99 ± 3.648
400
300
200
100
0
−100
−200
pull
Entries 86
Mean −10.81
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 86
Mean −0.1659
Std Dev 1.492
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

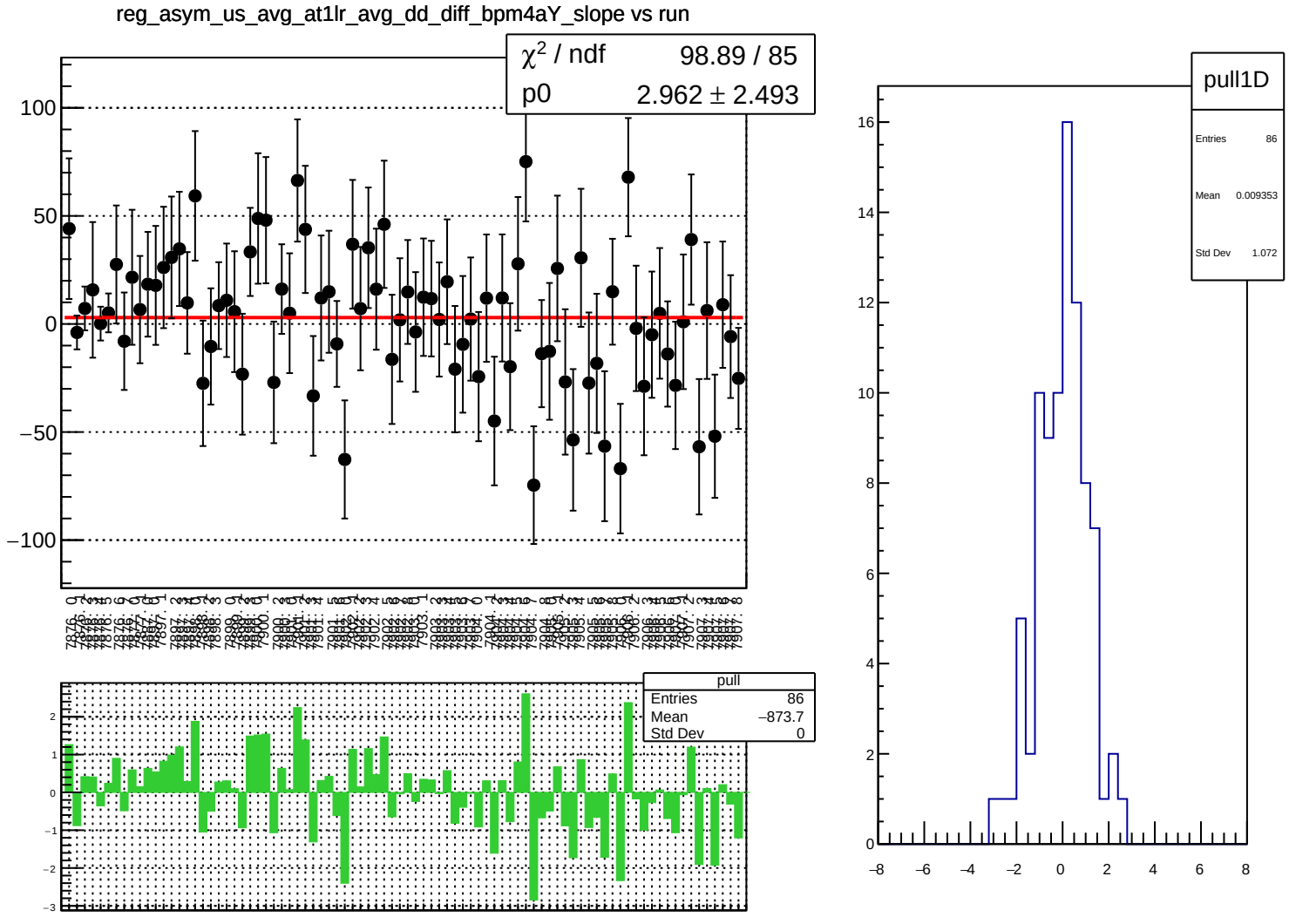

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.15 / 85
p0 20.15 ± 6.117
pull
Entries 86
Mean 142.8
Std Dev 0

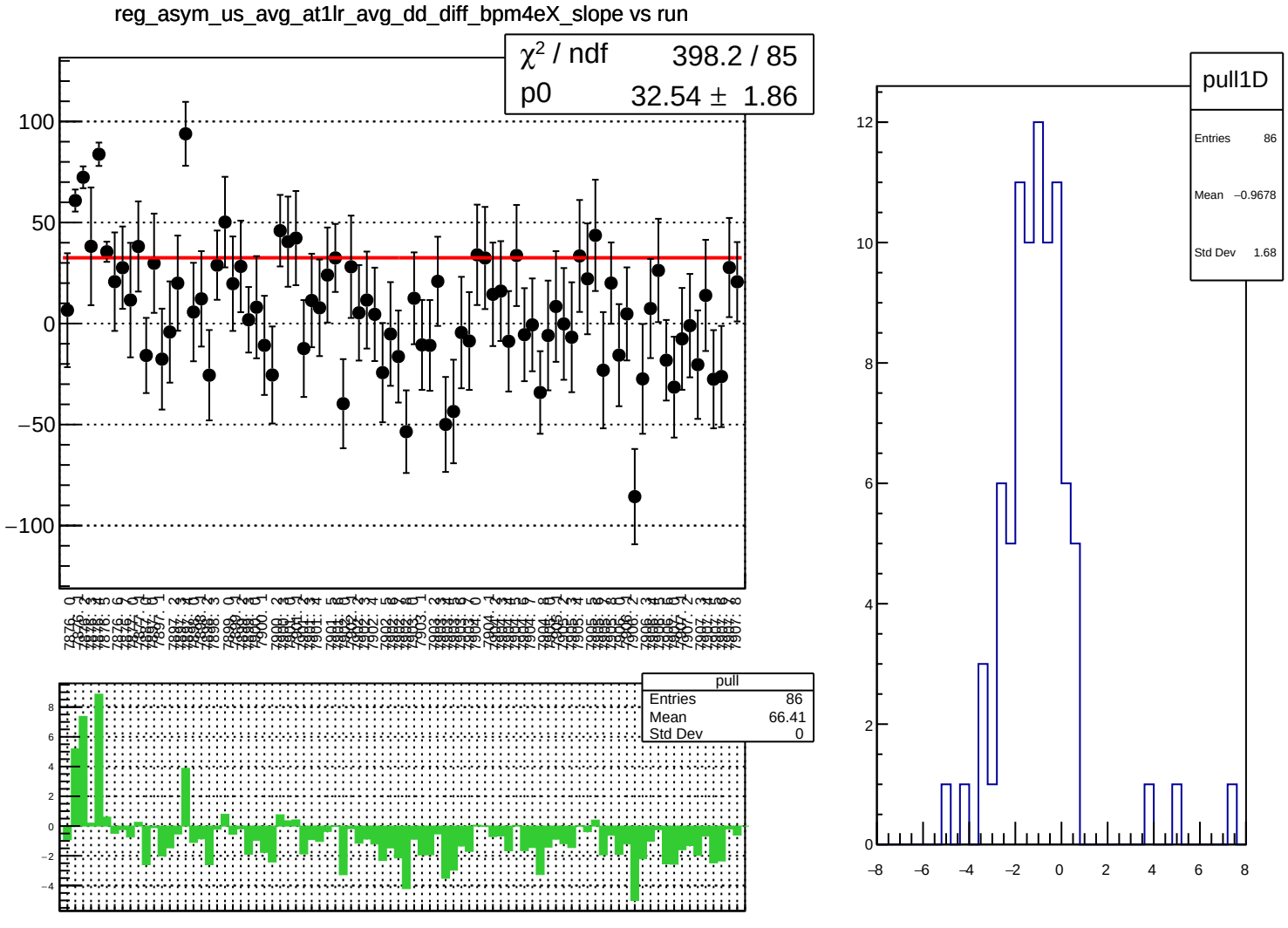

pull1D
Entries 86
Mean −0.05526
Std Dev 0.6724

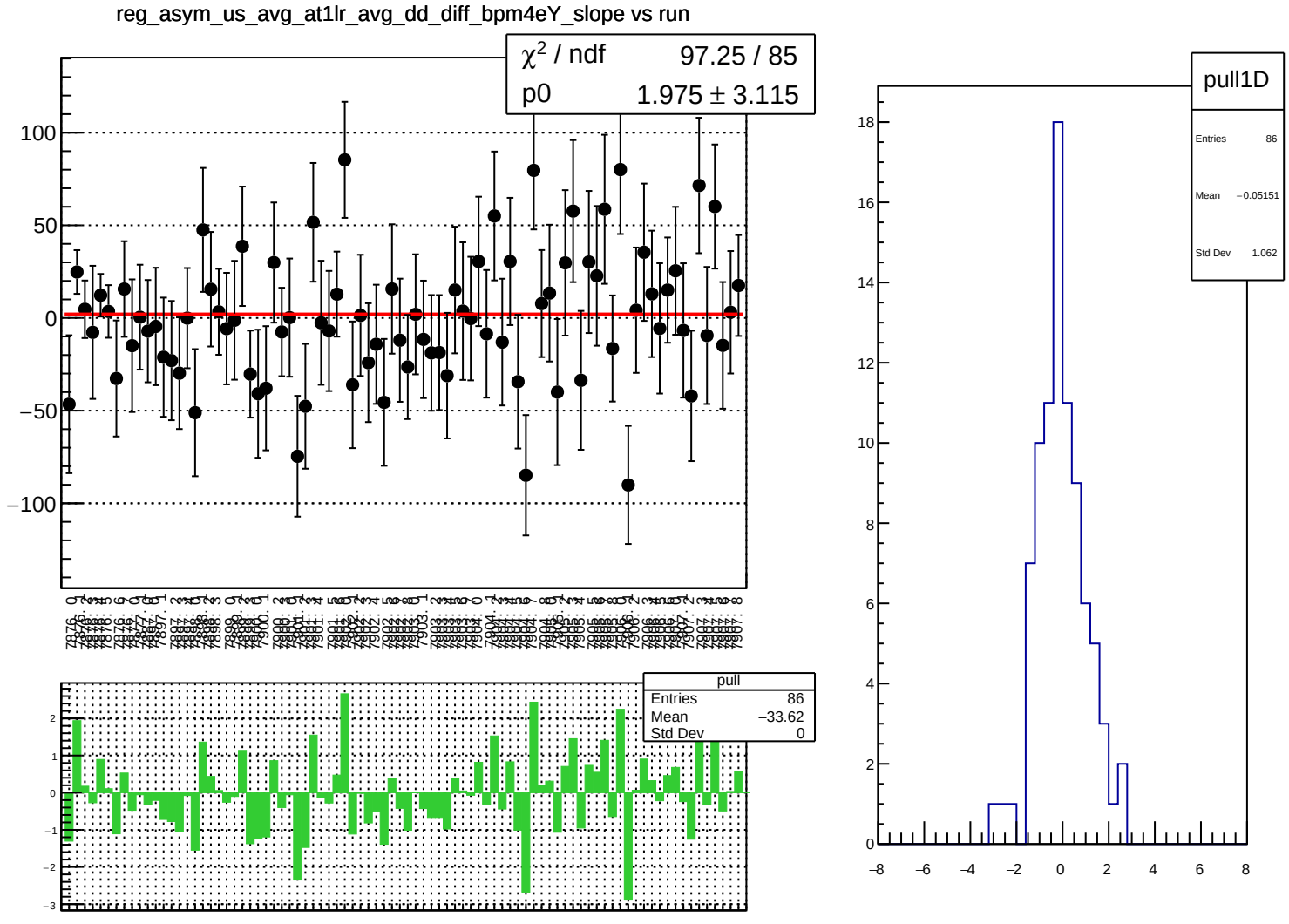

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 3075 / 85
p0 −71.28 ± 0.2104
pull
Entries 86
Mean 93.95
Std Dev 0

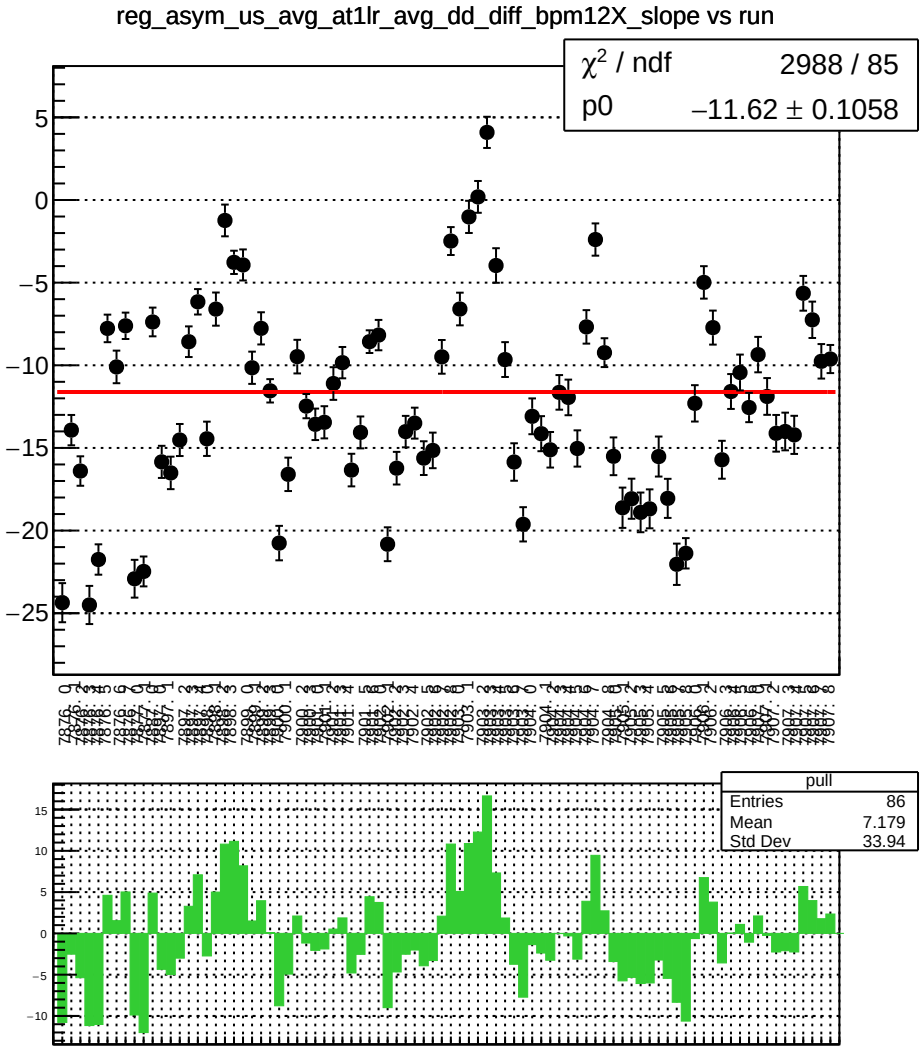

pull1D
Entries 86
Mean −1.051
Std Dev 3.924

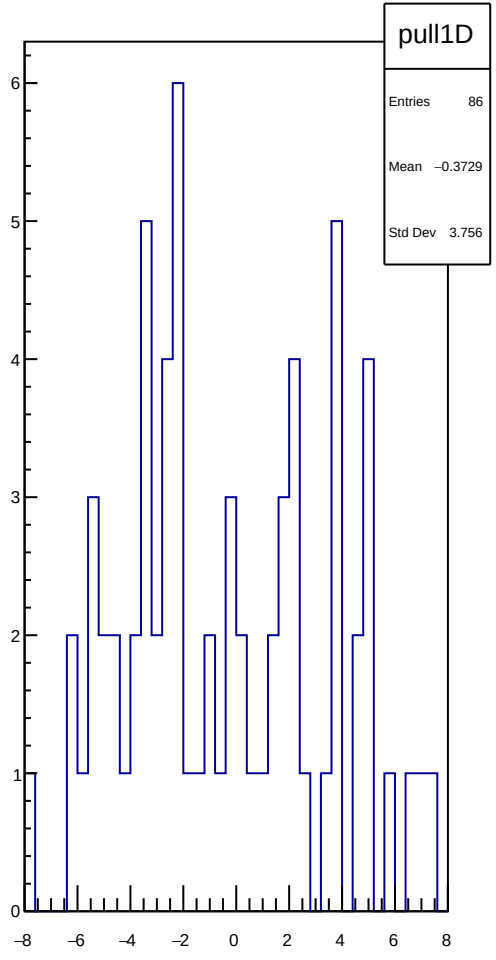

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 322.2 / 85
p0 −18.71 ± 2.322
150
100
50
0
−50
−100
pull
Entries 86
Mean 69.73
Std Dev 0
4
2
0
−2
−4
−6
−8
pull1D
Entries 86
Mean 0.692
Std Dev 1.808
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

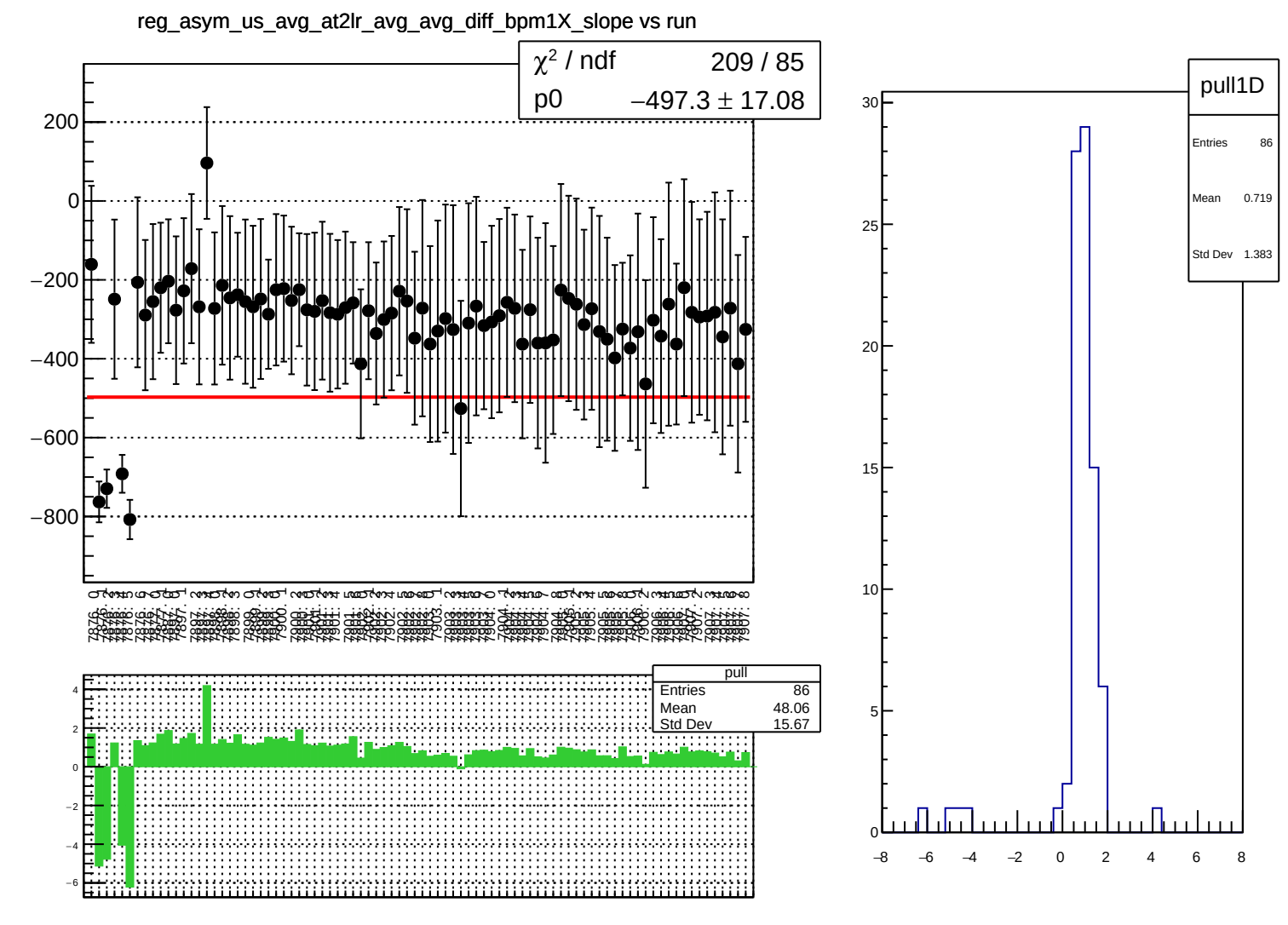

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 98.89 / 85
p0 2.962 ± 2.493
100
50
0
−50
−100
pull
Entries 86
Mean −873.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.009353
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

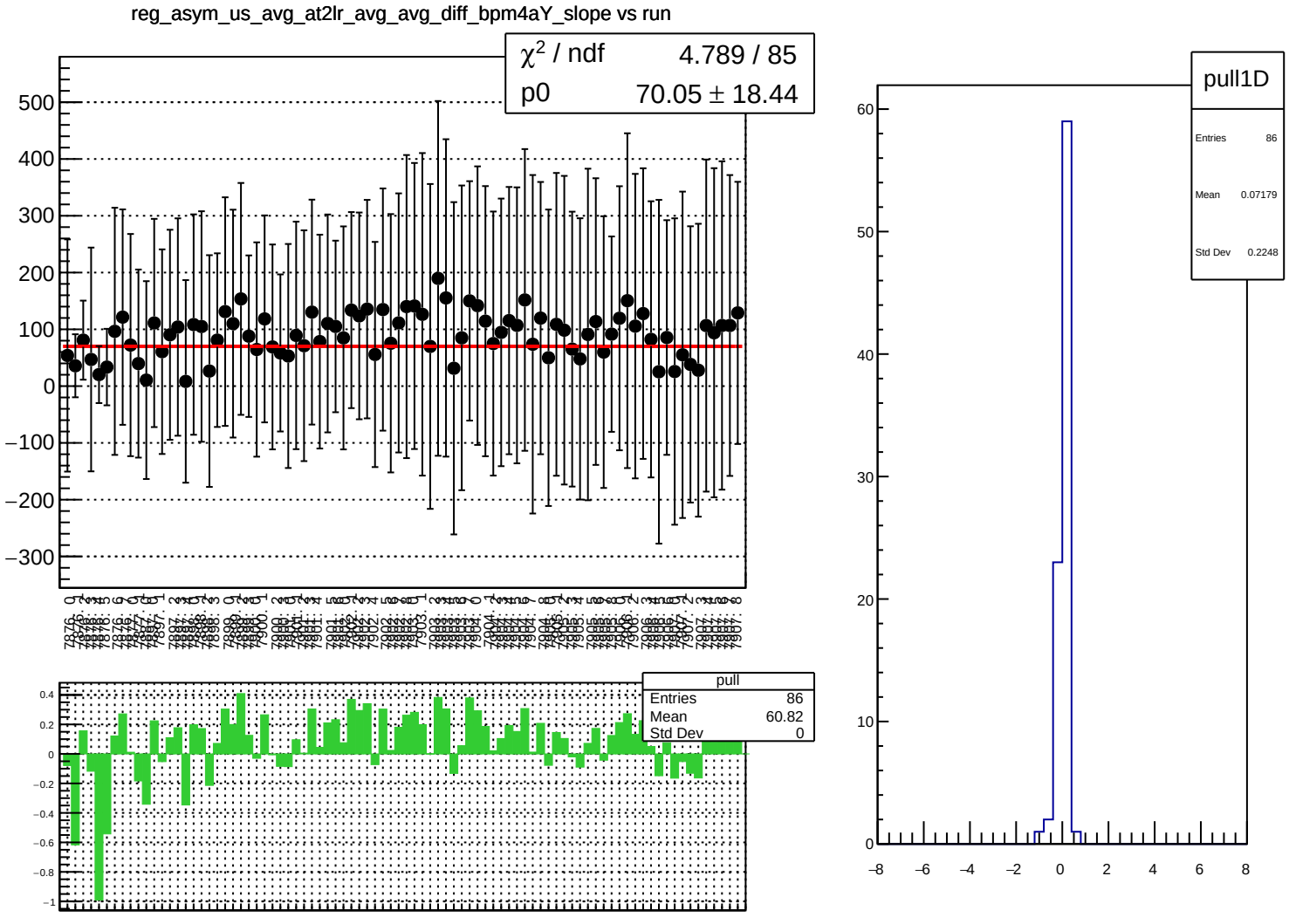

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 398.2 / 85
p0 32.54 ± 1.86
pull
Entries 86
Mean 66.41
Std Dev 0
pull1D
Entries 86
Mean −0.9678
Std Dev 1.68

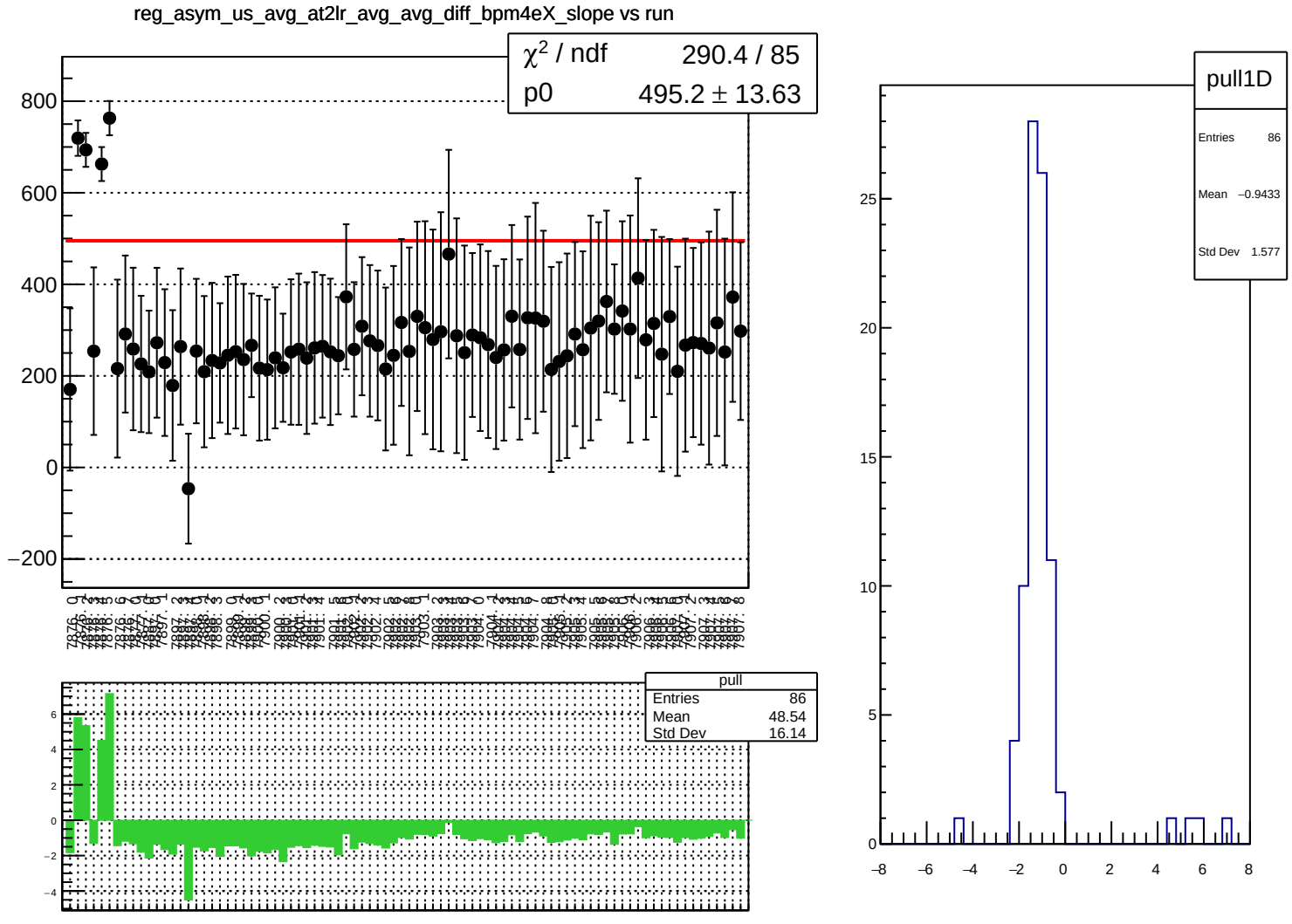

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 97.25 / 85
p0 1.975 ± 3.115
100
50
0
−50
−100
pull
Entries 86
Mean −33.62
Std Dev 0
pull1D
Entries 86
Mean −0.05151
Std Dev 1.062

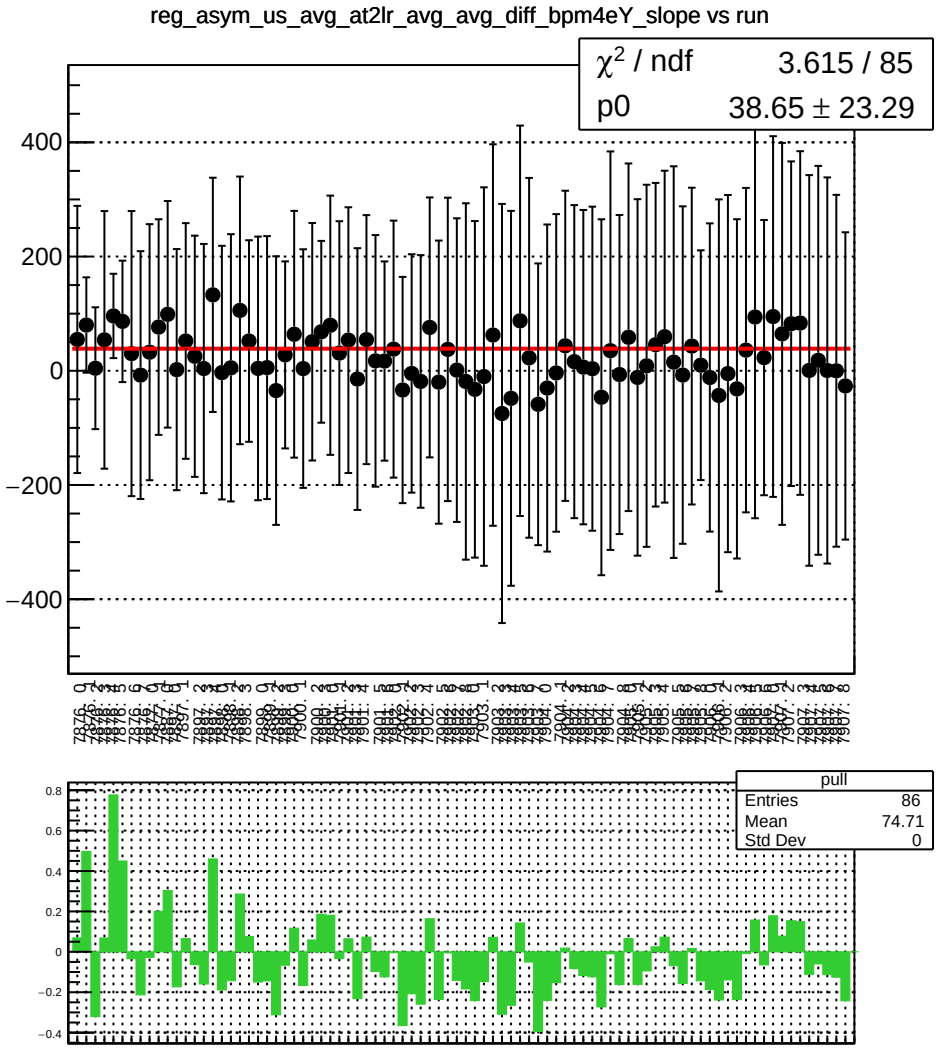

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 2988 / 85
p0 −11.62 ± 0.1058
pull
Entries 86
Mean 7.179
Std Dev 33.94

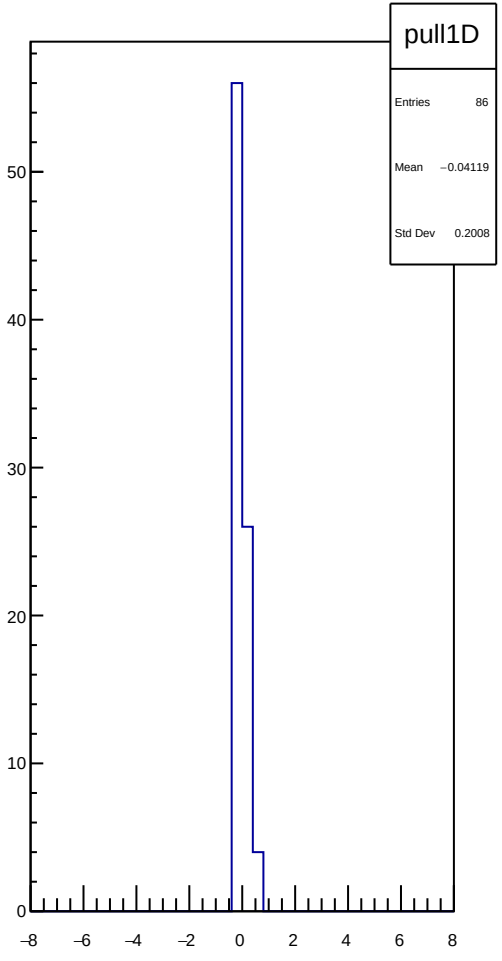

pull1D
Entries 86
Mean −0.3729
Std Dev 3.756

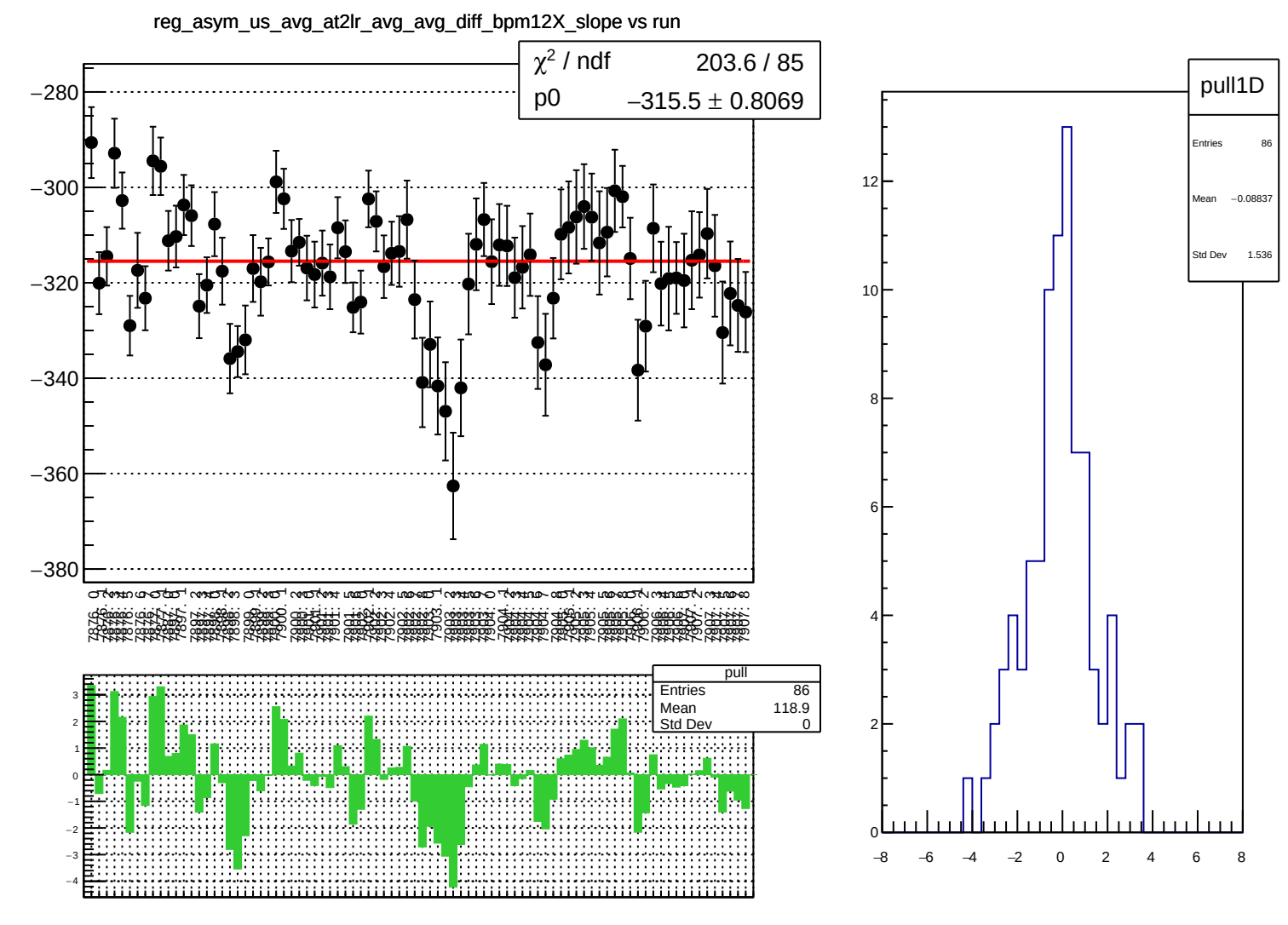

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 209 / 85
p0 −497.3 ± 17.08
200
0
−200
−400
−600
−800
pull
Entries 86
Mean 48.06
Std Dev 15.67
4
2
0
−2
−4
−6
pull1D
Entries 86
Mean 0.719
Std Dev 1.383
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

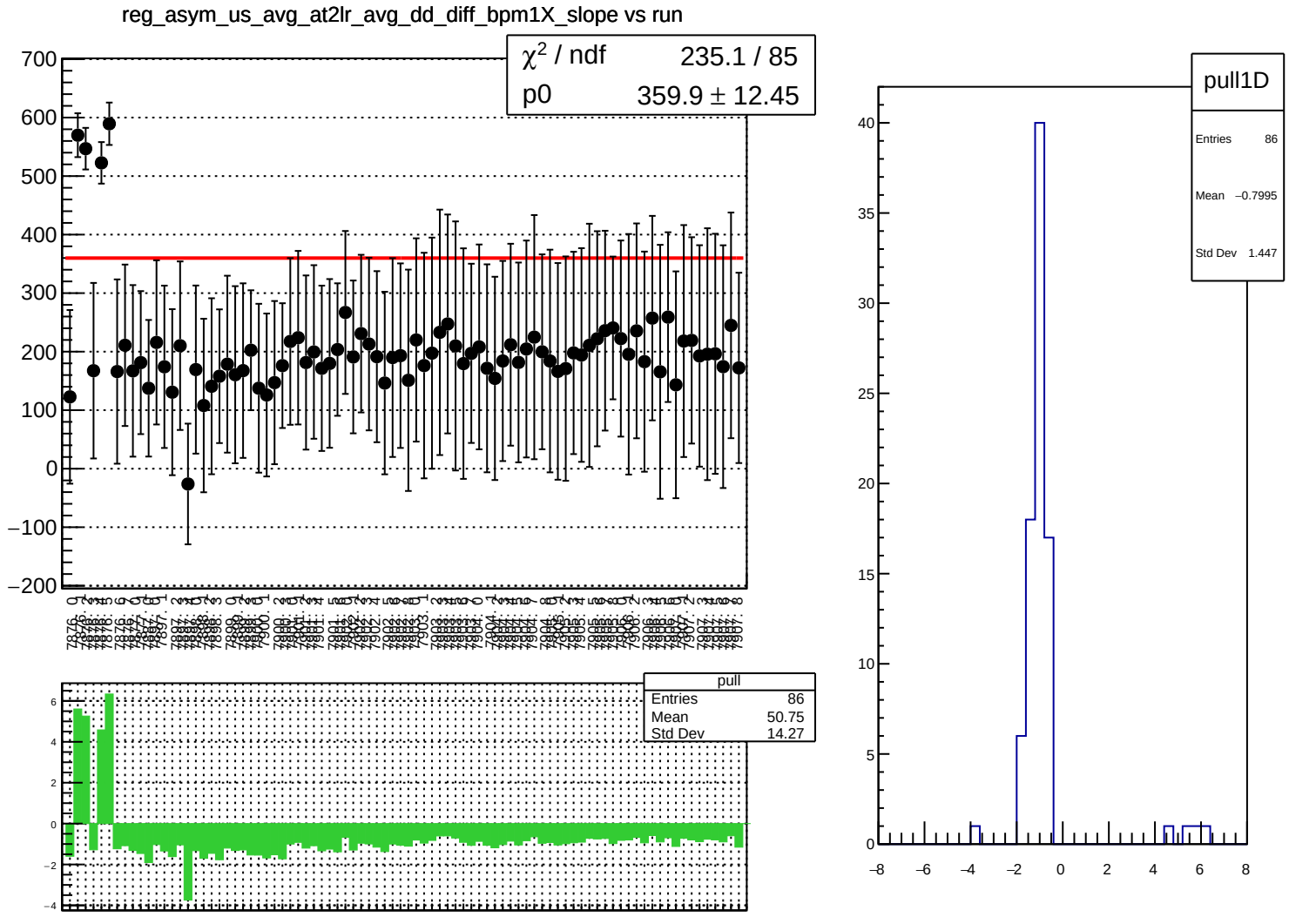

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.789 / 85
p0 70.05 ± 18.44
pull
Entries 86
Mean 60.82
Std Dev 0
pull1D
Entries 86
Mean 0.07179
Std Dev 0.2248

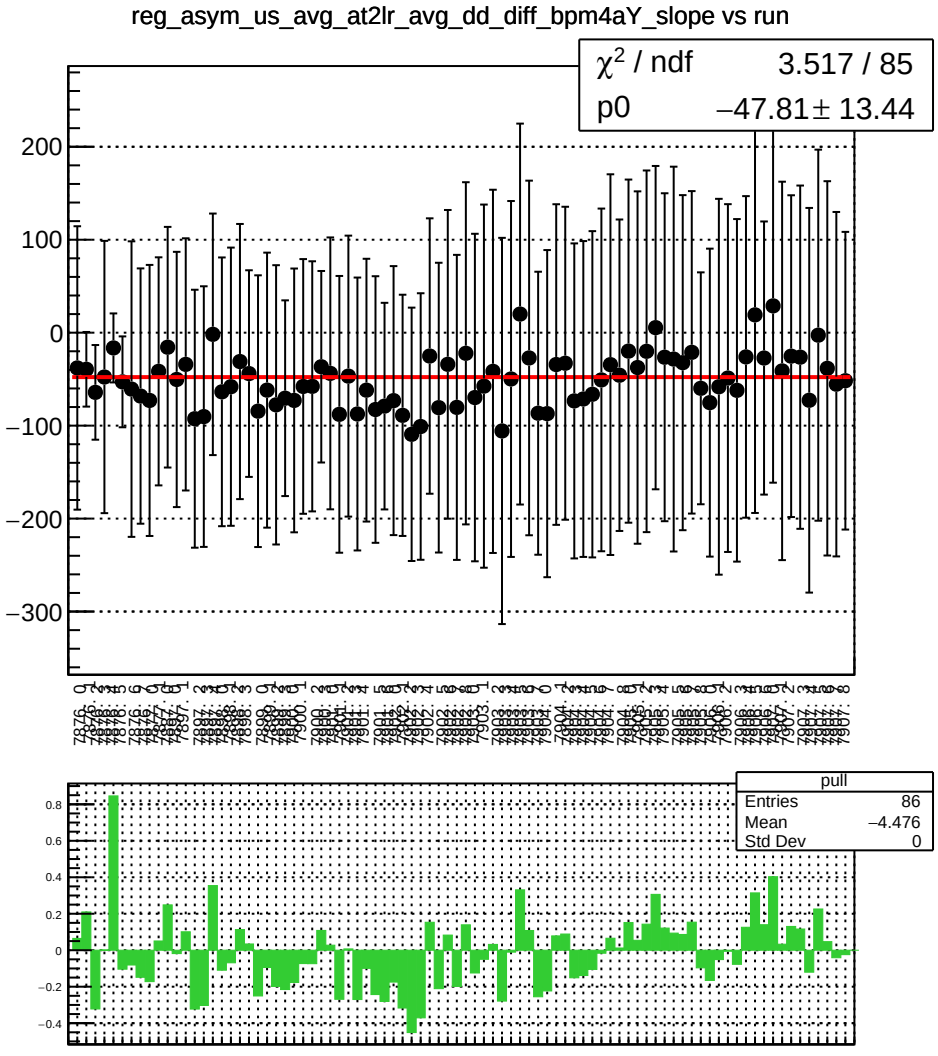

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 290.4 / 85
p0 495.2 ± 13.63
800
600
400
200
0
−200
pull
Entries 86
Mean 48.54
Std Dev 16.14
6
4
2
0
−2
−4
pull1D
Entries 86
Mean −0.9433
Std Dev 1.577
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

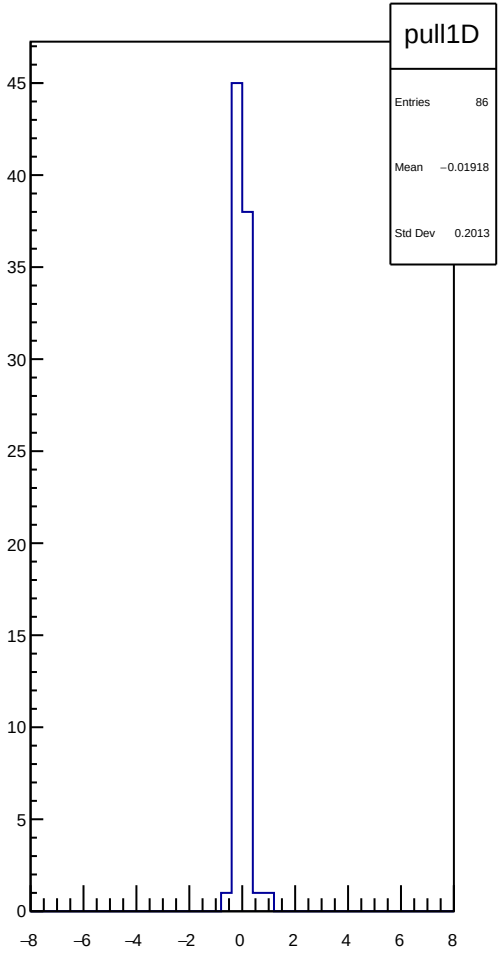

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.615 / 85
p0 38.65 ± 23.29
400
200
0
−200
−400
pull
Entries 86
Mean 74.71
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

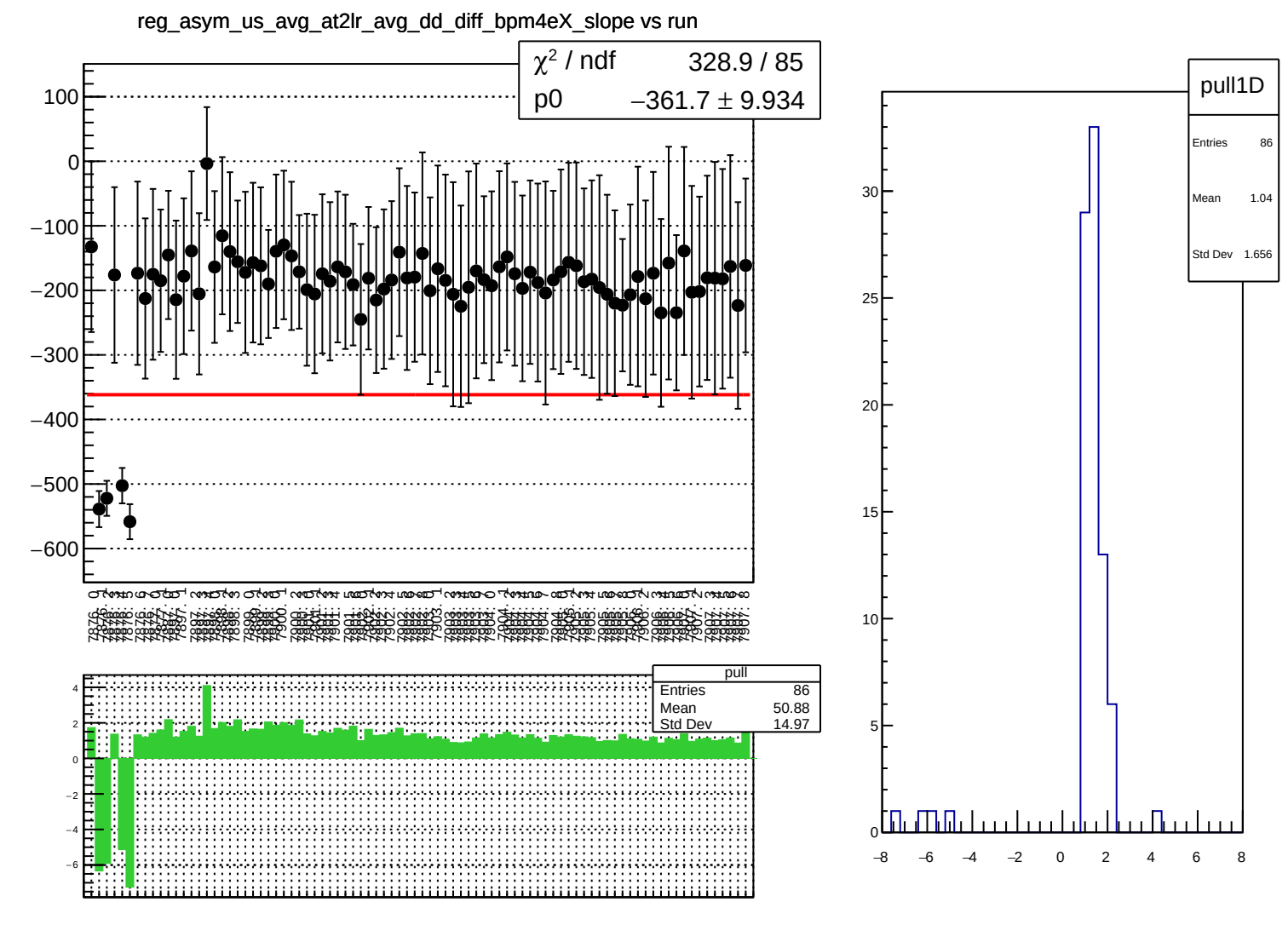

pull1D
Entries 86
Mean −0.04119
Std Dev 0.2008
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

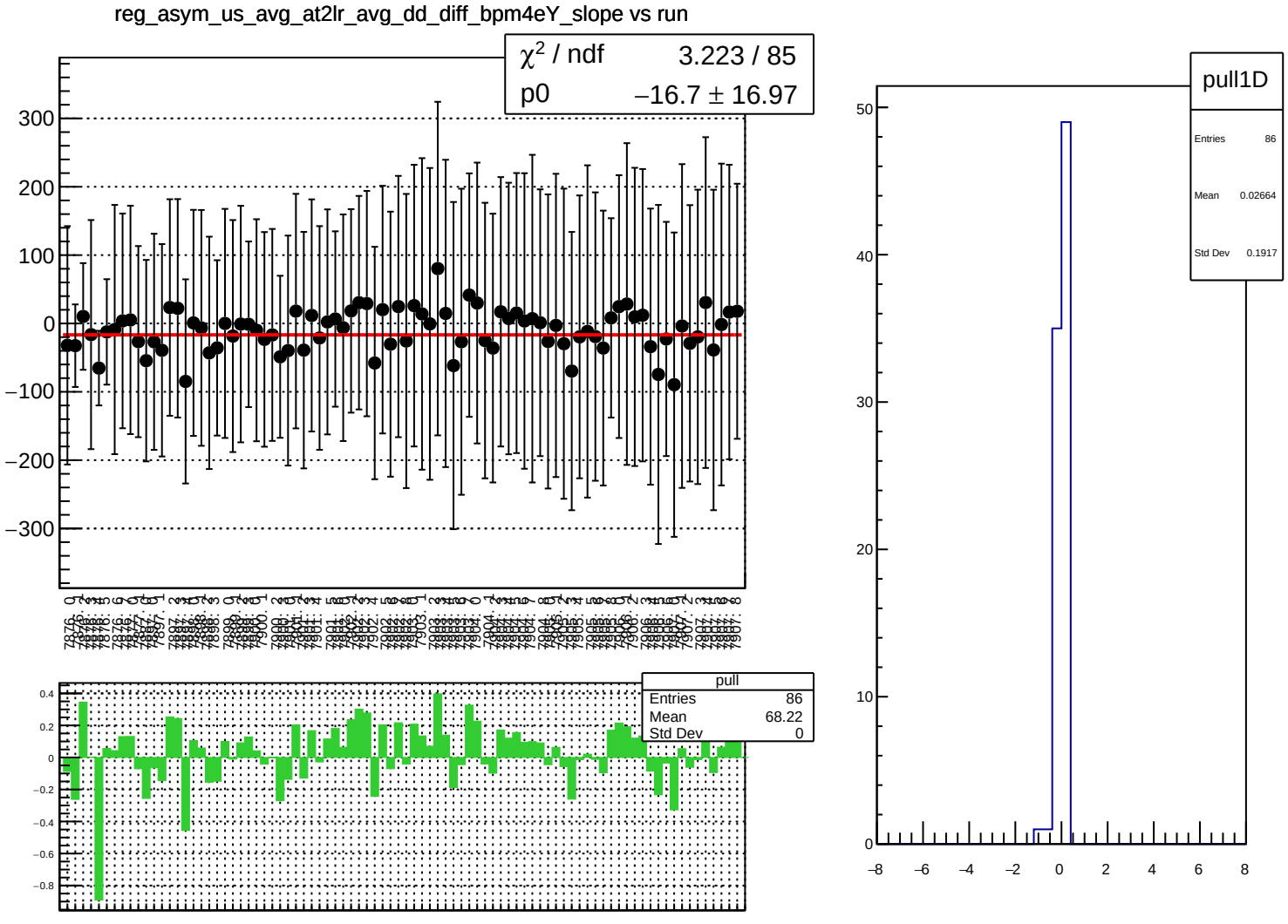

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 203.6 / 85
p0 −315.5 ± 0.8069
−280
−300
−320
−340
−360
−380
pull
Entries 86
Mean 118.9
Std Dev 0
pull1D
Entries 86
Mean −0.08837
Std Dev 1.536

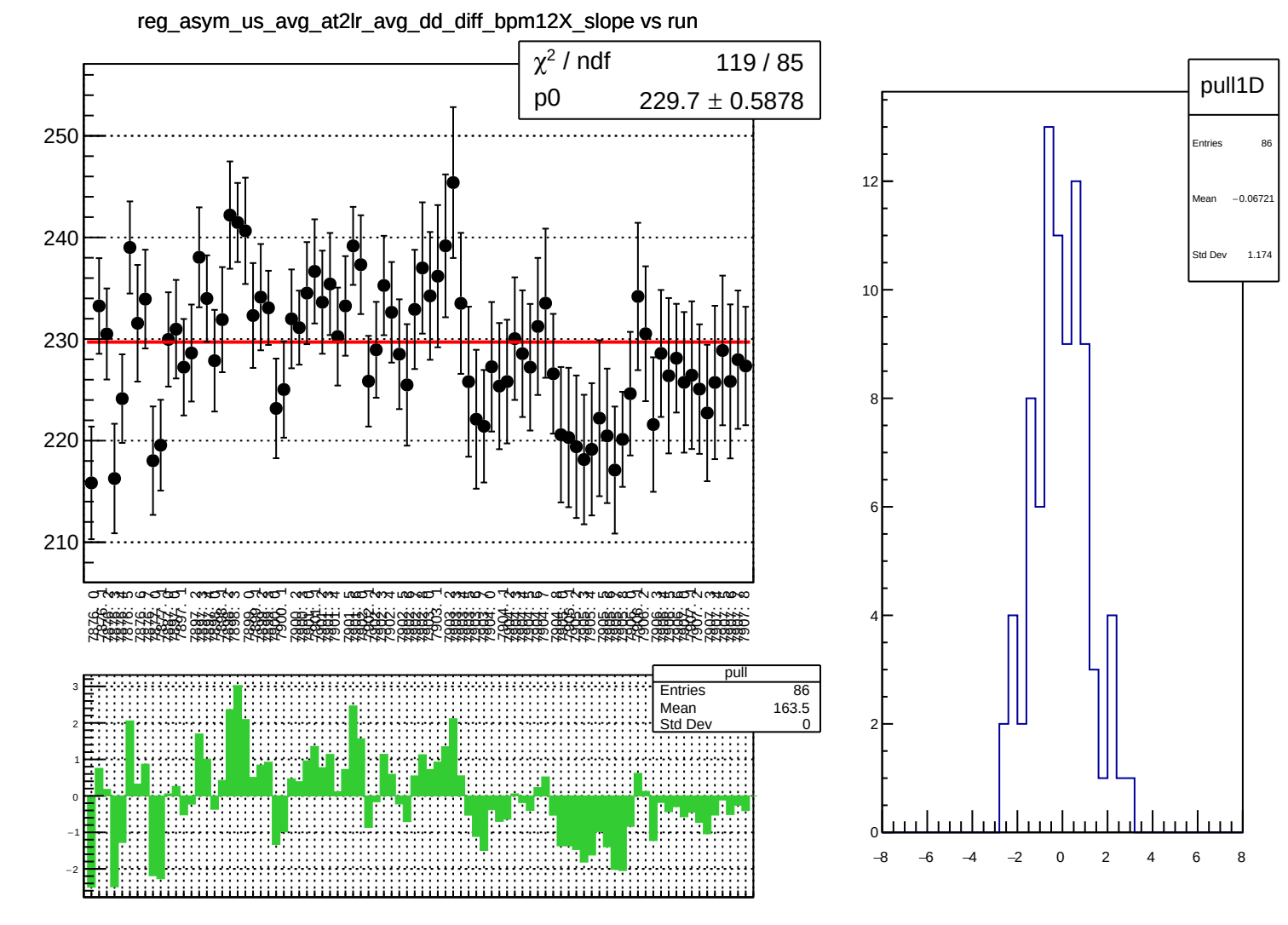

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 235.1 / 85
p0 359.9 ± 12.45
pull
Entries 86
Mean 50.75
Std Dev 14.27
pull1D
Entries 86
Mean −0.7995
Std Dev 1.447

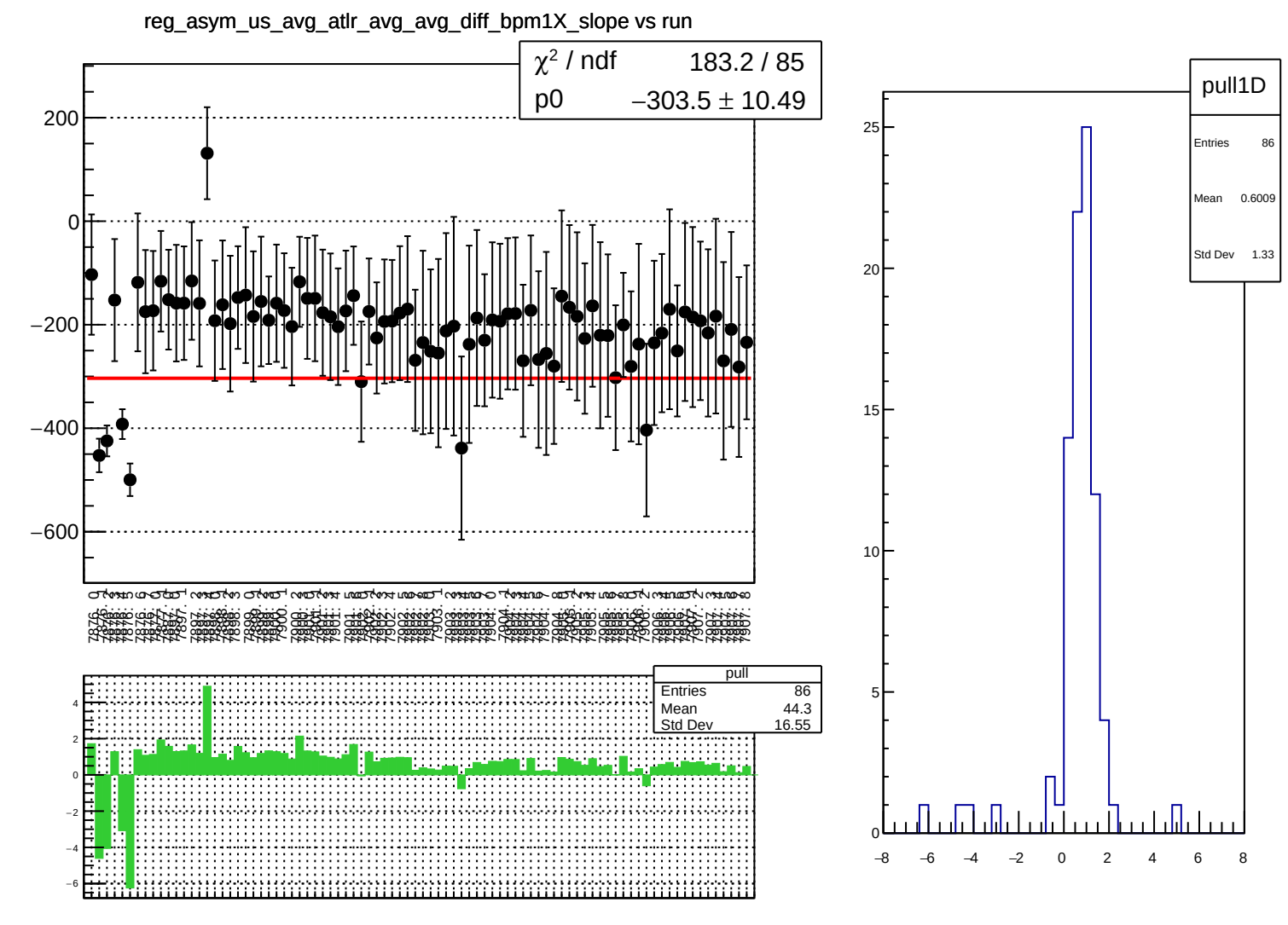

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.517 / 85
p0 −47.81 ± 13.44
200
100
0
−100
−200
−300
pull
Entries 86
Mean −4.476
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

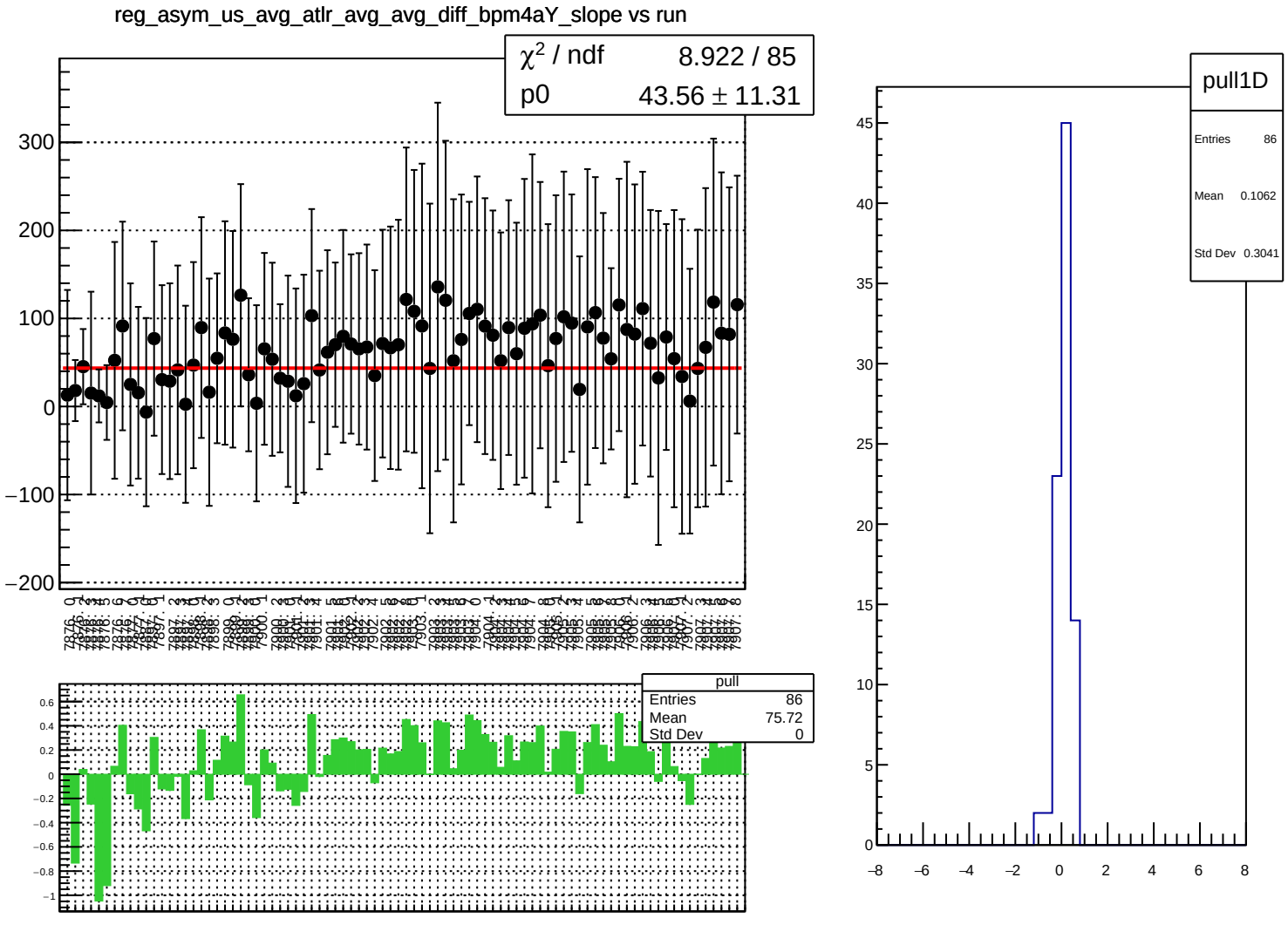

pull1D
Entries 86
Mean −0.01918
Std Dev 0.2013
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

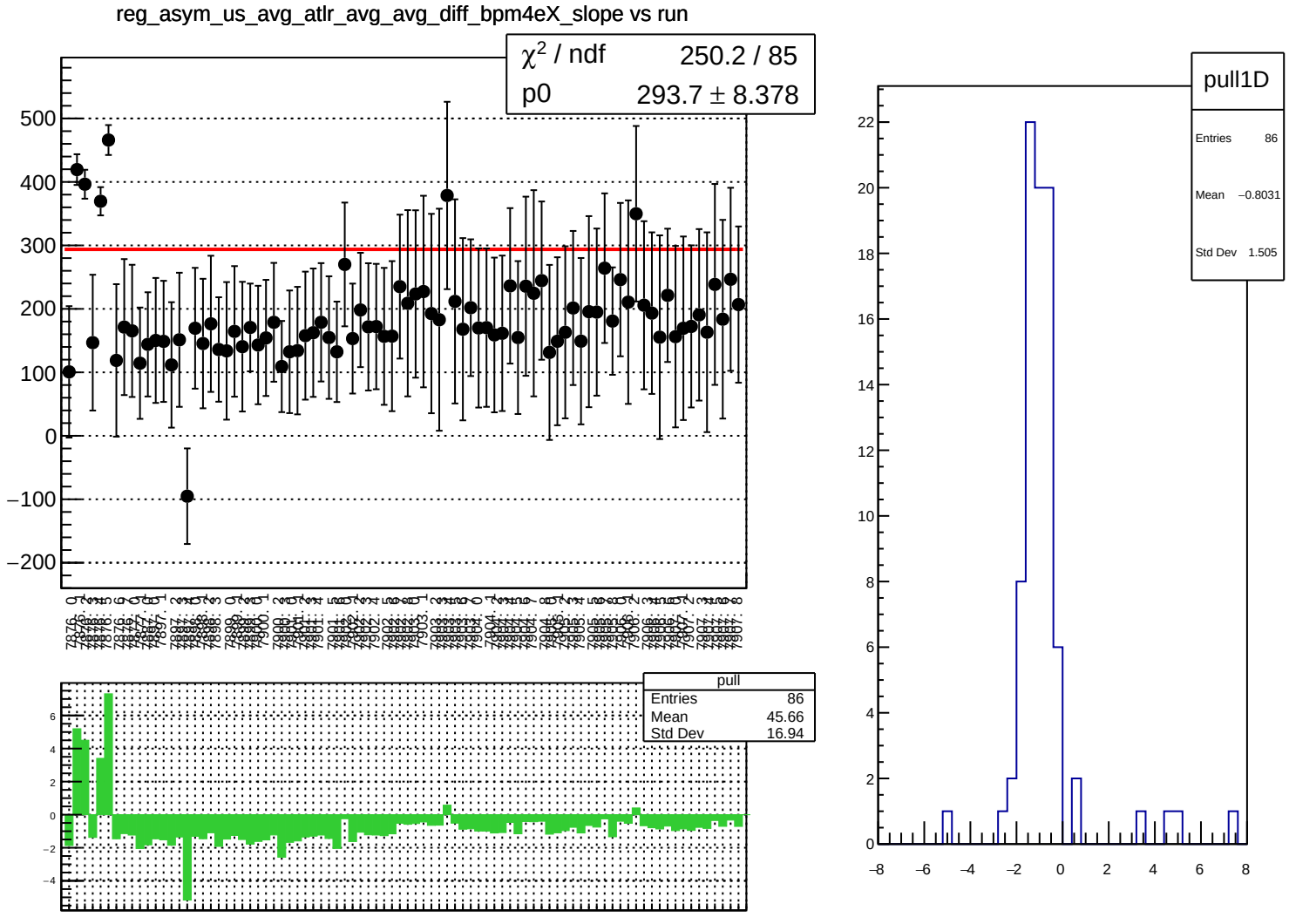

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 328.9 / 85
p0 −361.7 ± 9.934
pull
Entries 86
Mean 50.88
Std Dev 14.97
pull1D
Entries 86
Mean 1.04
Std Dev 1.656

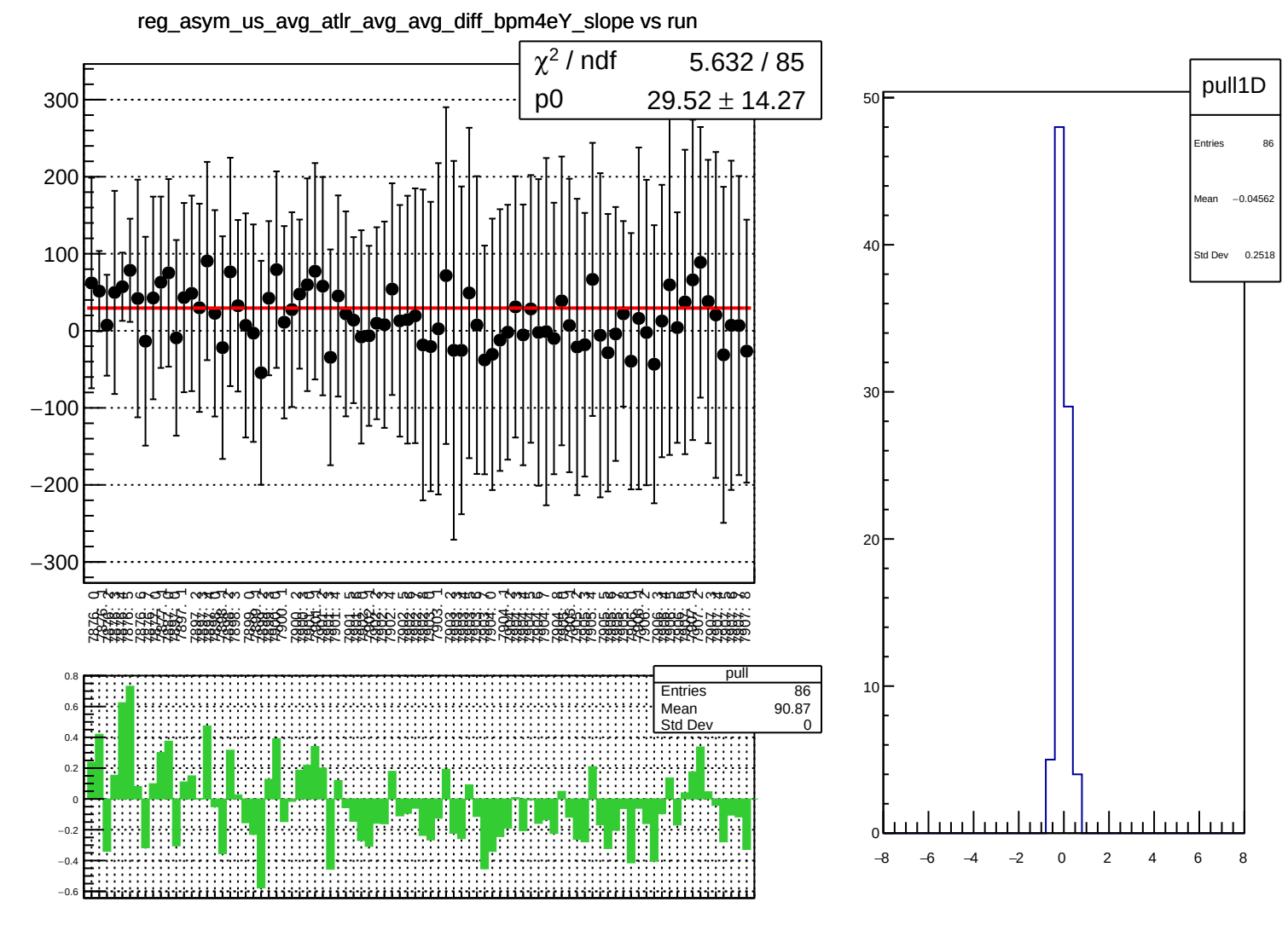

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.223 / 85
p0 −16.7 ± 16.97
pull
Entries 86
Mean 68.22
Std Dev 0
pull1D
Entries 86
Mean 0.02664
Std Dev 0.1917

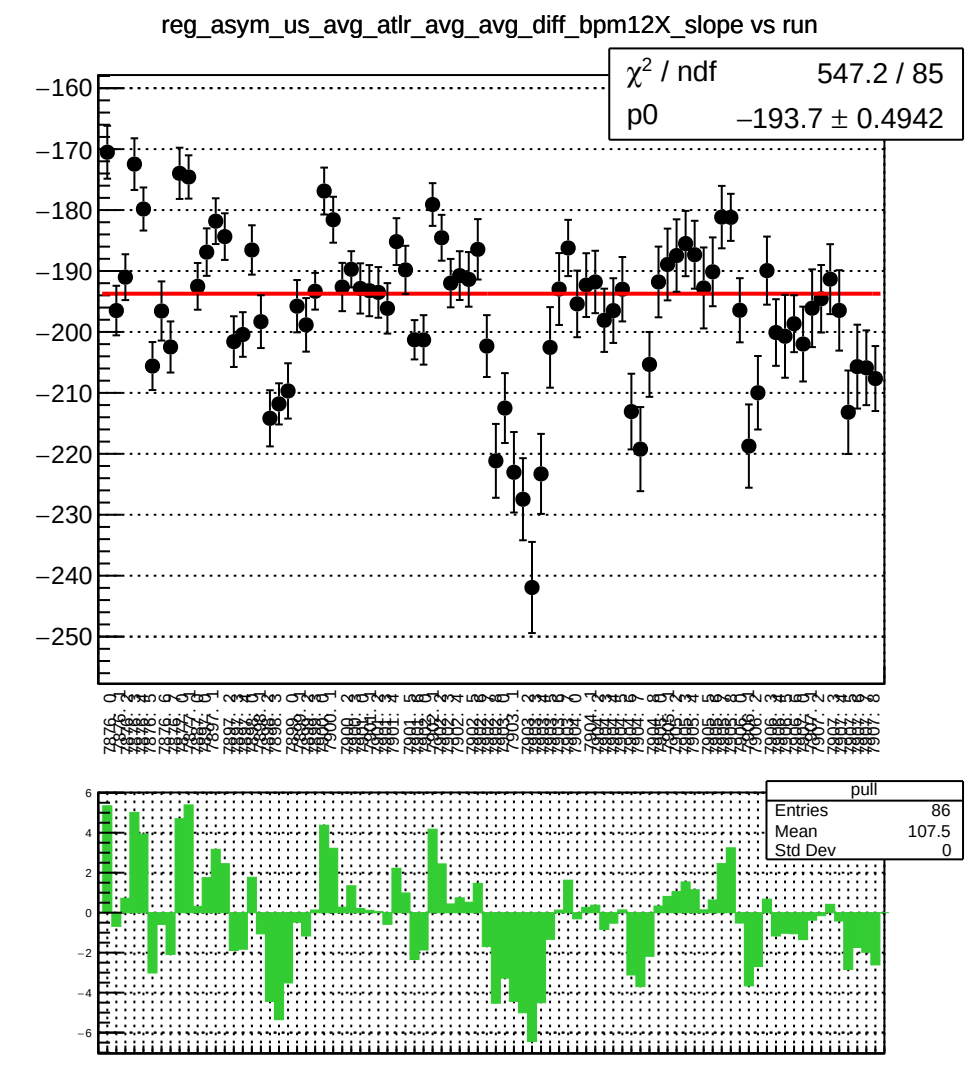

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 119 / 85
p0 229.7 ± 0.5878
250
240
230
220
210
pull
Entries 86
Mean 163.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.06721
Std Dev 1.174
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

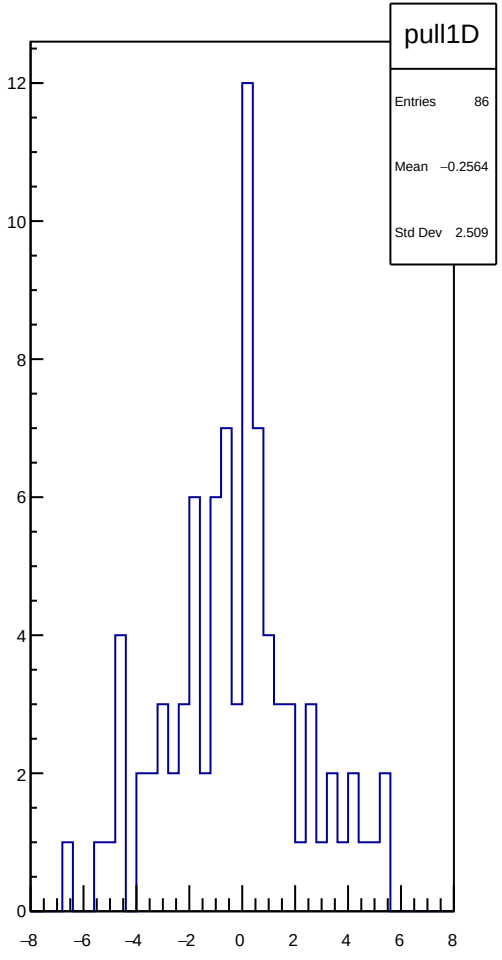

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 183.2 / 85
p0 −303.5 ± 10.49
200
0
−200
−400
−600
pull
Entries 86
Mean 44.3
Std Dev 16.55
4
2
0
−2
−4
−6
pull1D
Entries 86
Mean 0.6009
Std Dev 1.33
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

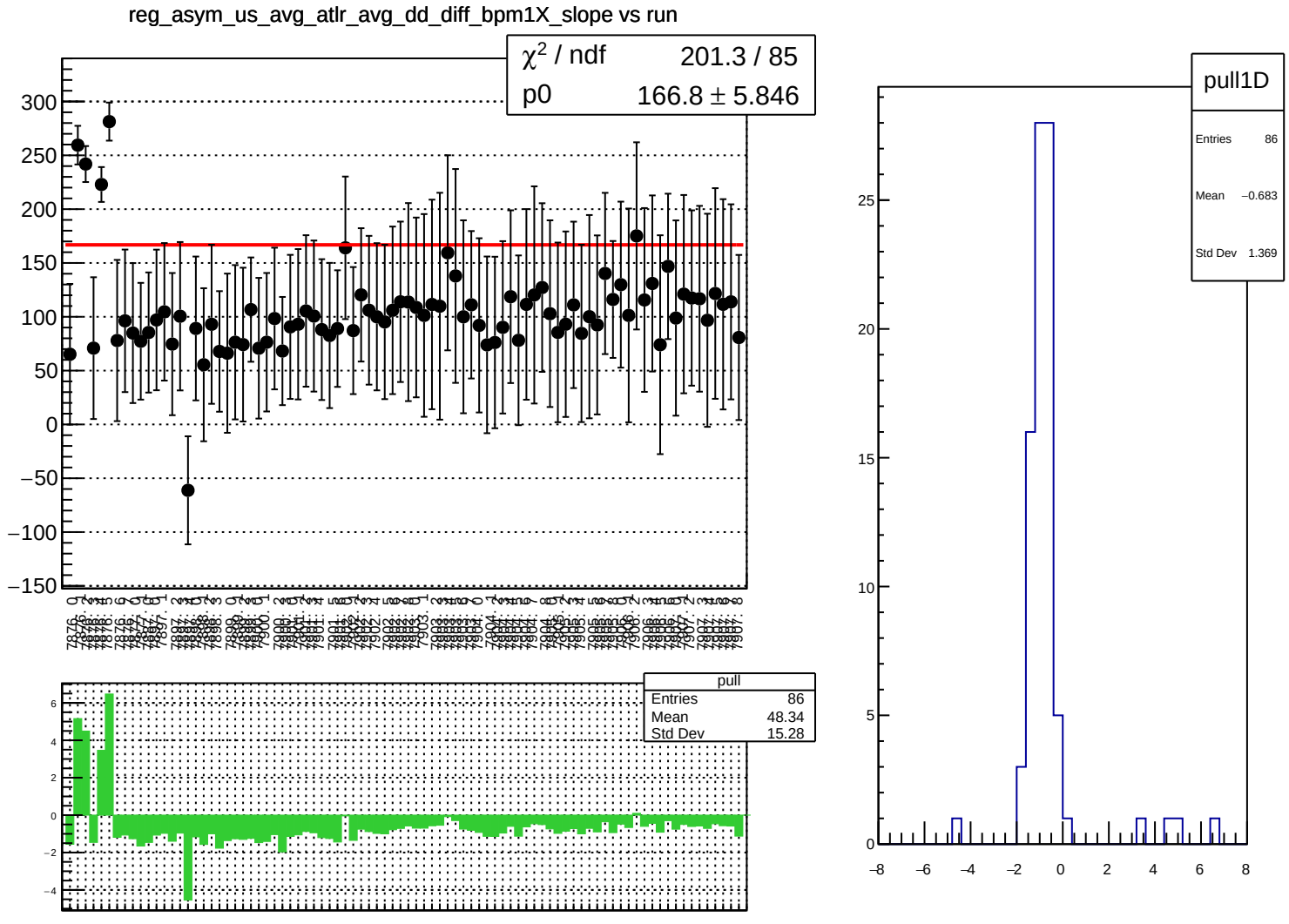

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.922 / 85
p0 43.56 ± 11.31
300
200
100
0
−100
−200
pull
Entries 86
Mean 75.72
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 86
Mean 0.1062
Std Dev 0.3041
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

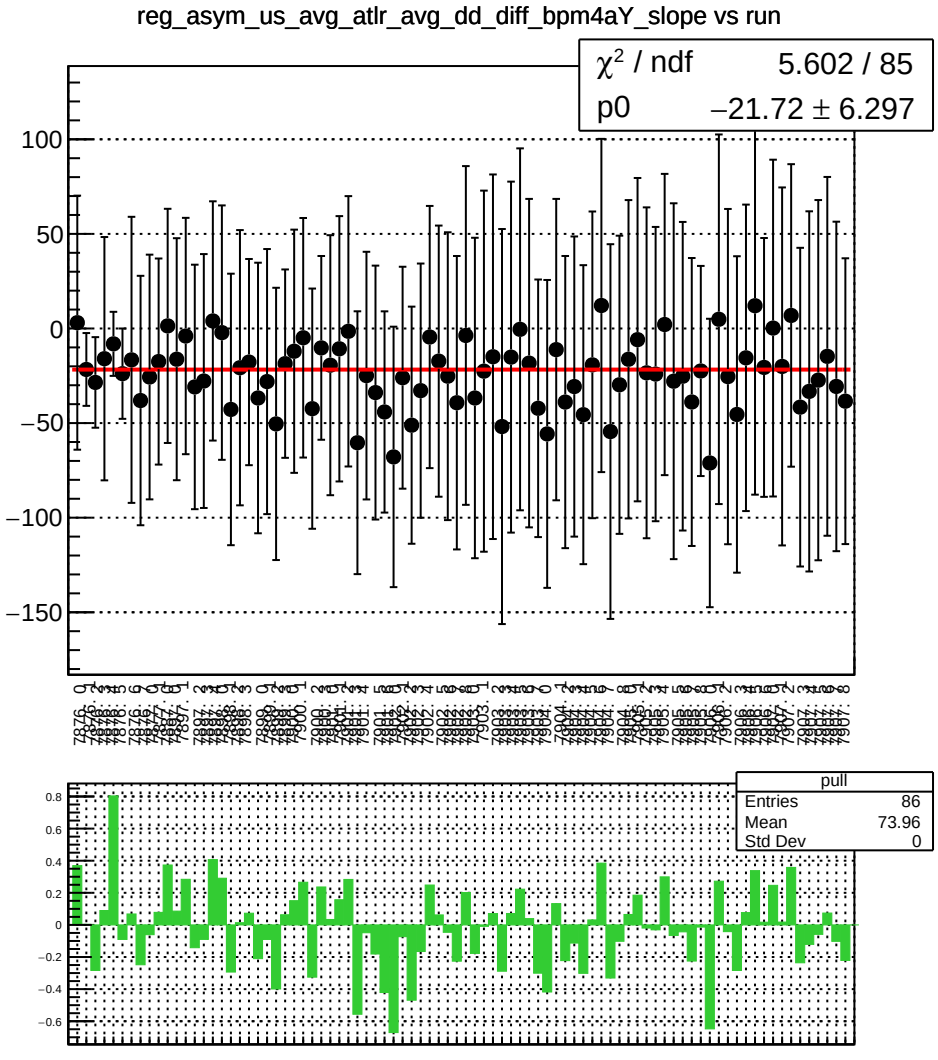

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 250.2 / 85
p0 293.7 ± 8.378
pull
Entries 86
Mean 45.66
Std Dev 16.94
pull1D
Entries 86
Mean −0.8031
Std Dev 1.505

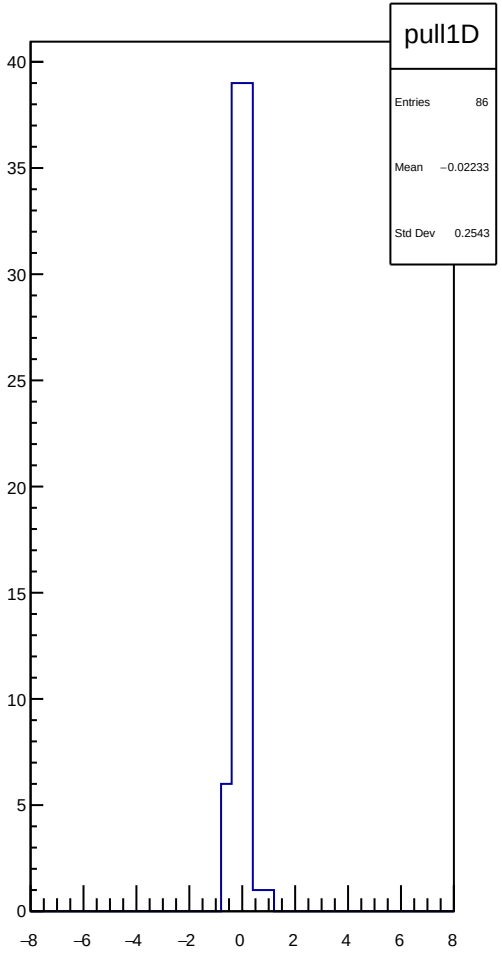

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.632 / 85
p0 29.52 ± 14.27
pull
Entries 86
Mean 90.87
Std Dev 0
pull1D
Entries 86
Mean −0.04562
Std Dev 0.2518

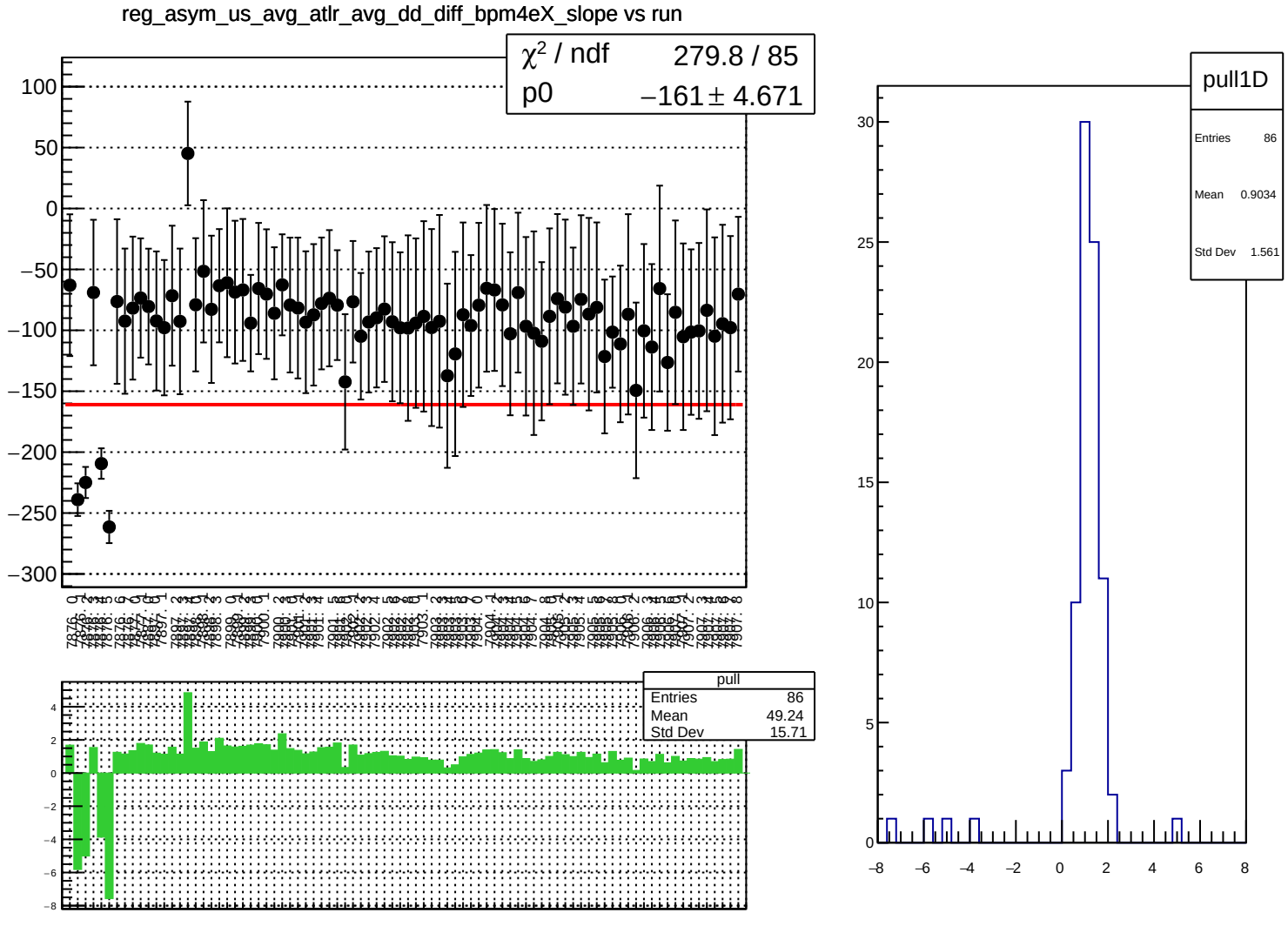

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 547.2 / 85
p0 −193.7 ± 0.4942
pull
Entries 86
Mean 107.5
Std Dev 0

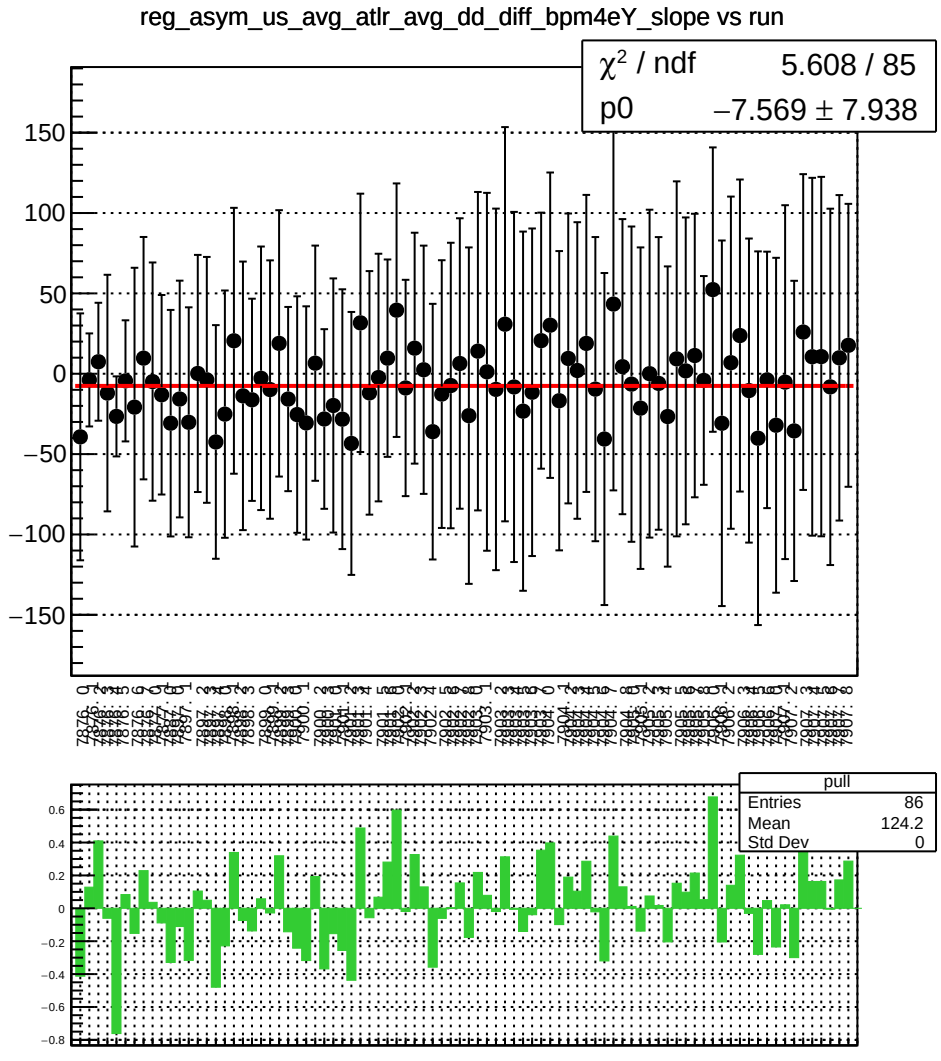

pull1D
Entries 86
Mean −0.2564
Std Dev 2.509

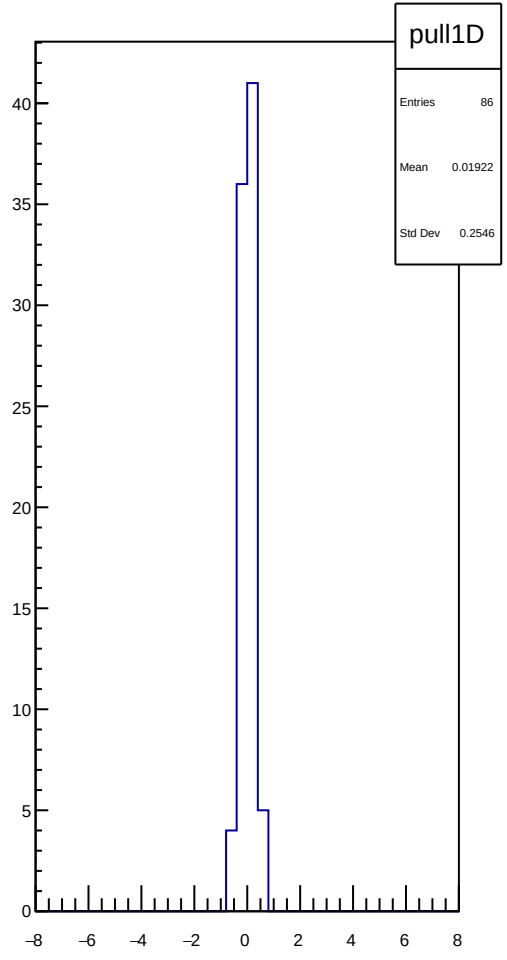

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 201.3 / 85
p0 166.8 ± 5.846
pull
Entries 86
Mean 48.34
Std Dev 15.28
pull1D
Entries 86
Mean −0.683
Std Dev 1.369

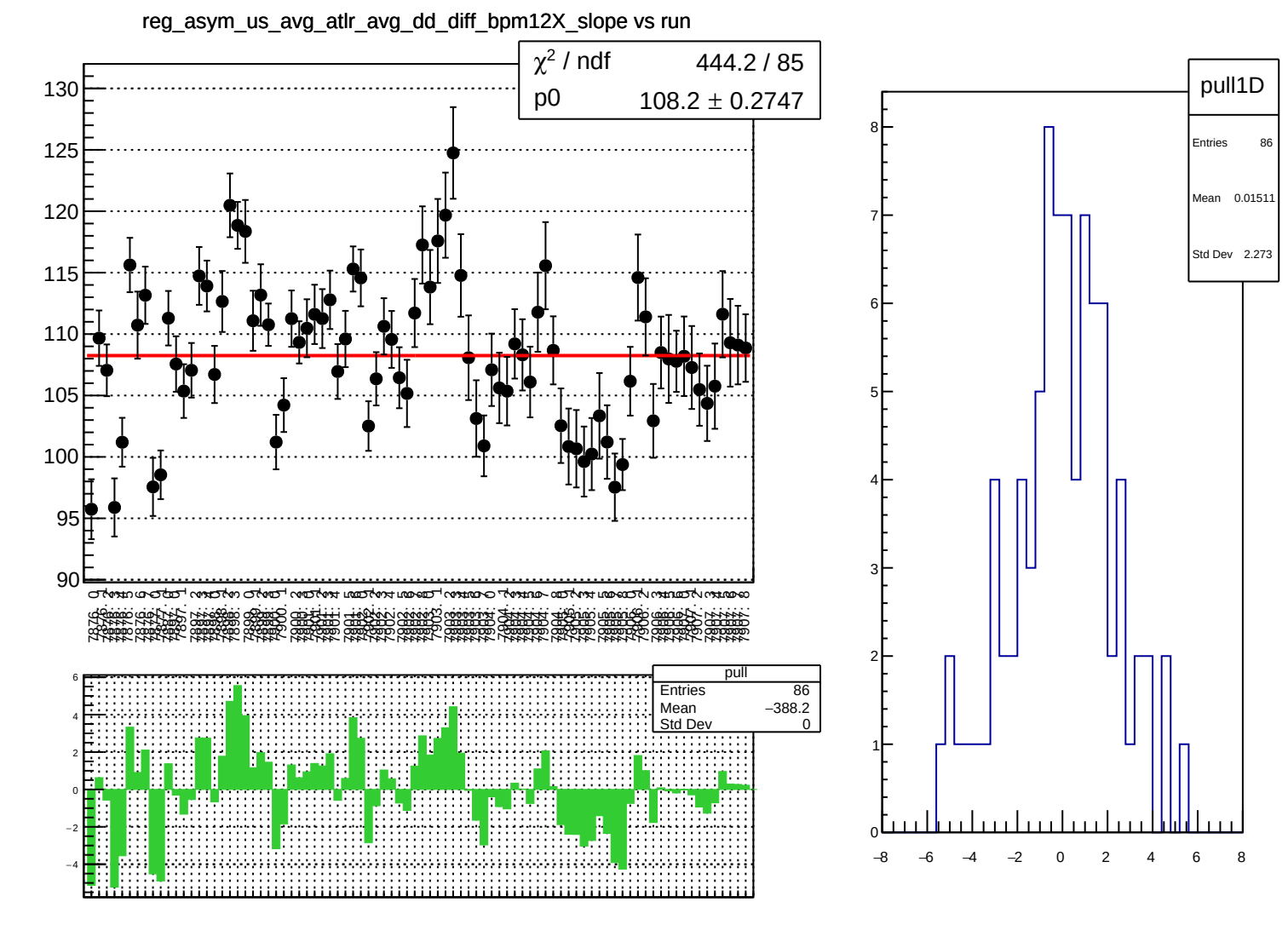

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.602 / 85
p0 −21.72 ± 6.297
pull
Entries 86
Mean 73.96
Std Dev 0

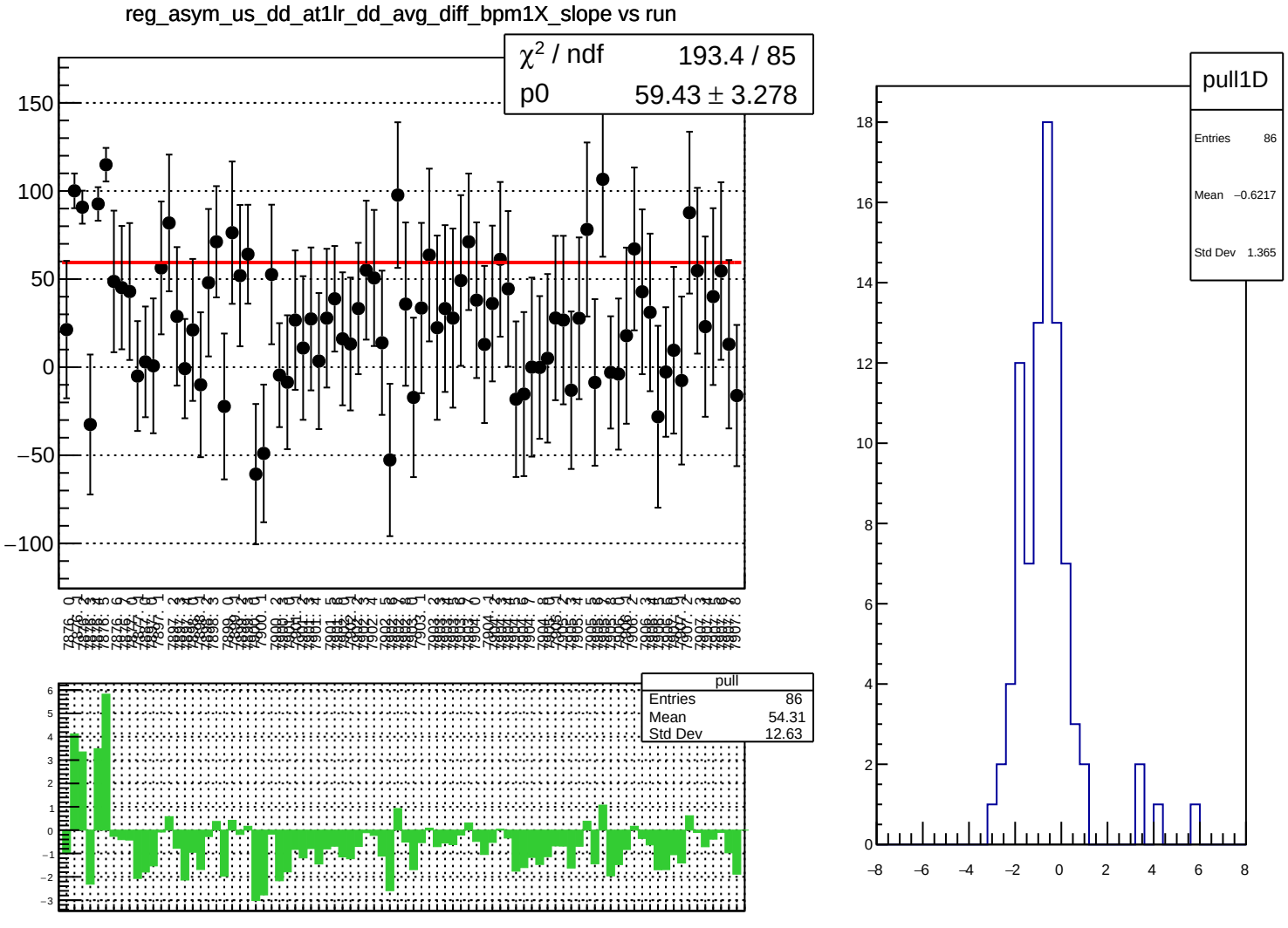

pull1D
Entries 86
Mean −0.02233
Std Dev 0.2543

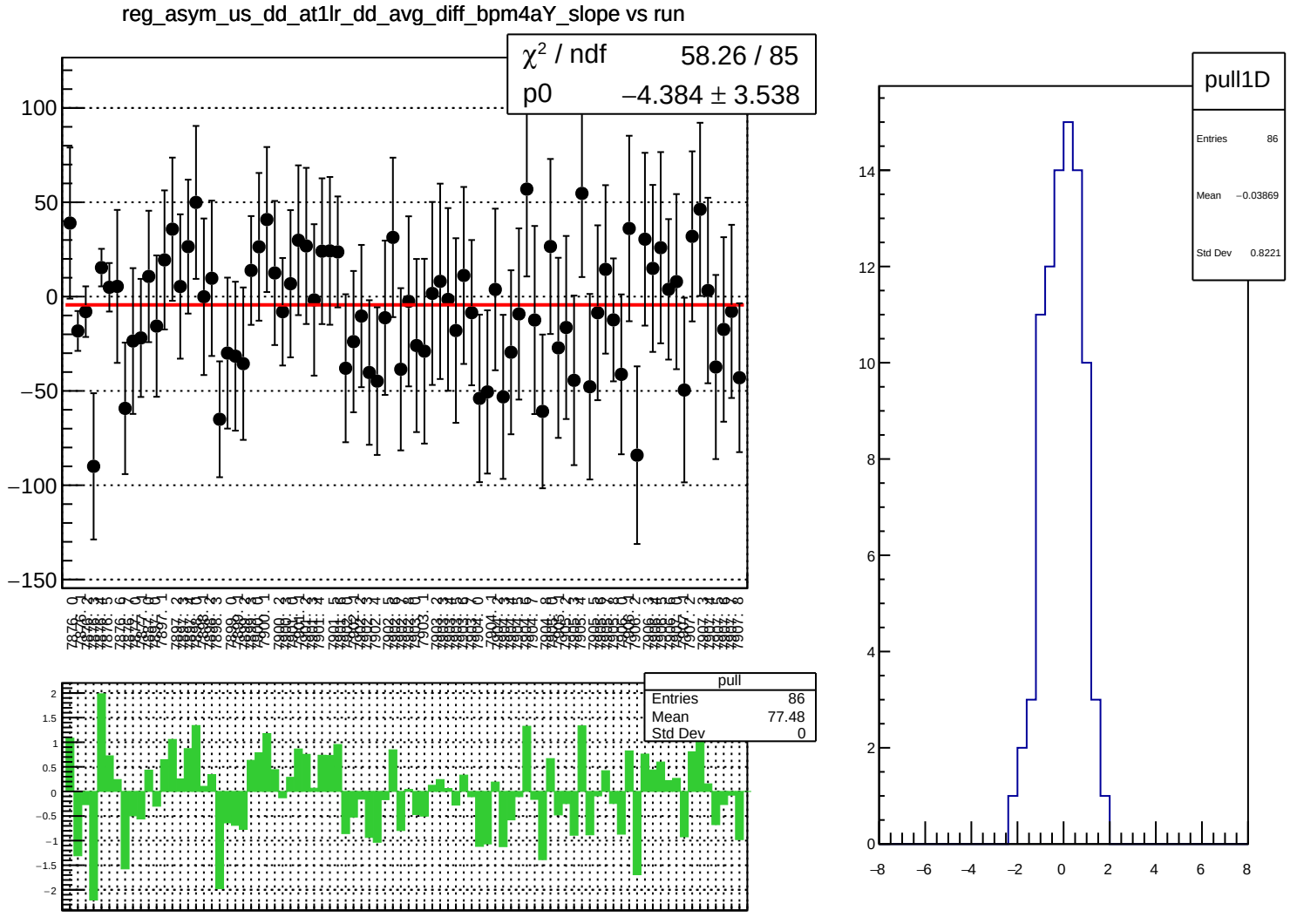

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 279.8 / 85
p0 −161 ± 4.671
pull
Entries 86
Mean 49.24
Std Dev 15.71
pull1D
Entries 86
Mean 0.9034
Std Dev 1.561

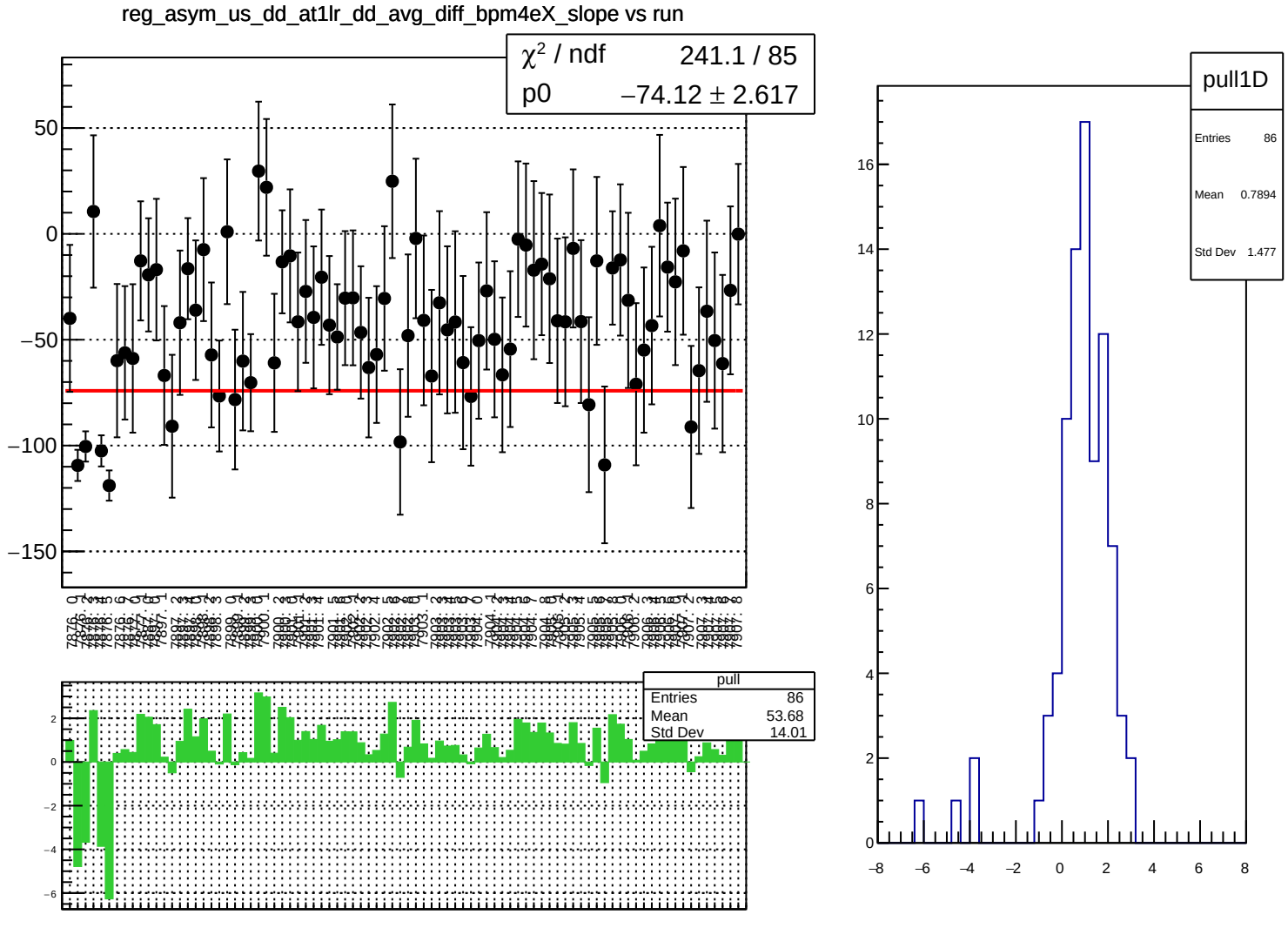

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.608 / 85
p0 −7.569 ± 7.938
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 124.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

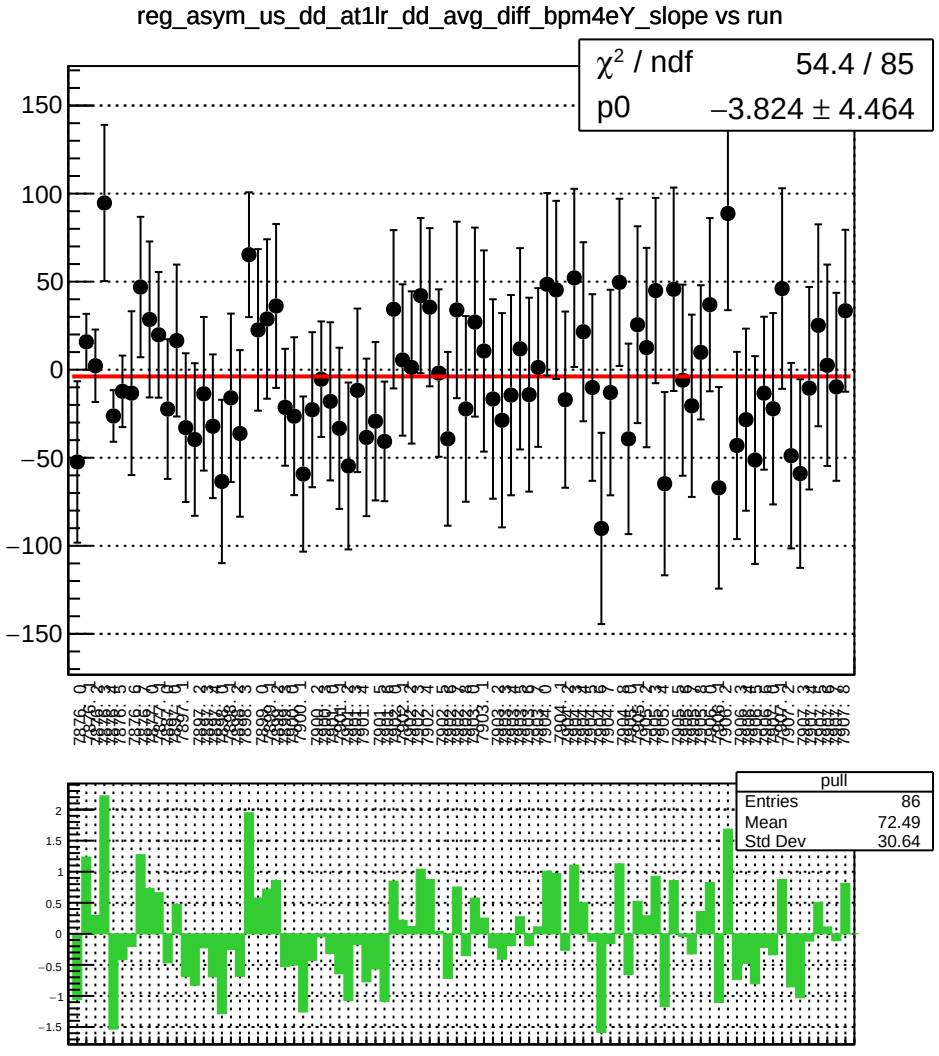

pull1D
Entries 86
Mean 0.01922
Std Dev 0.2546
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

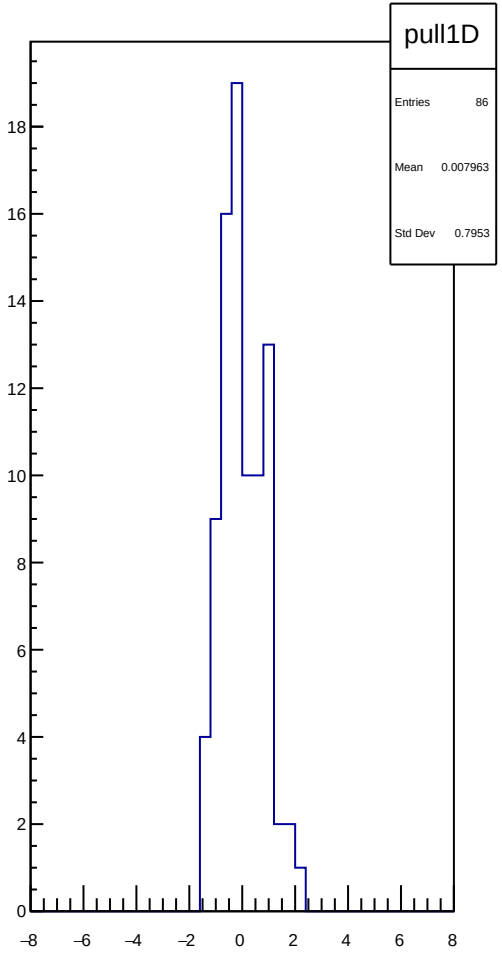

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 444.2 / 85
p0 108.2 ± 0.2747
pull
Entries 86
Mean −388.2
Std Dev 0
pull1D
Entries 86
Mean 0.01511
Std Dev 2.273

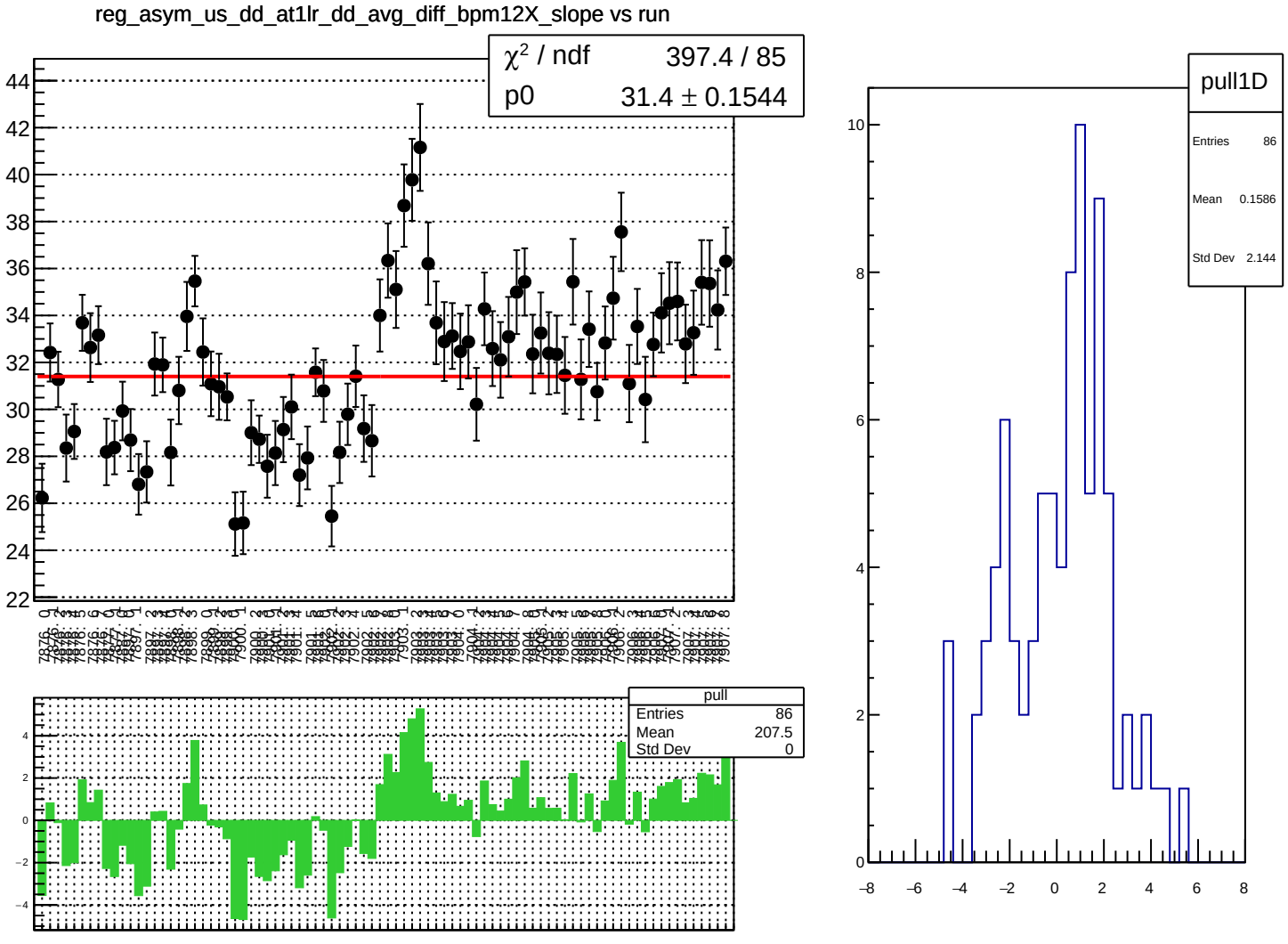

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 193.4 / 85
p0 59.43 ± 3.278
150
100
50
0
−50
−100
pull
Entries 86
Mean 54.31
Std Dev 12.63
6
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.6217
Std Dev 1.365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

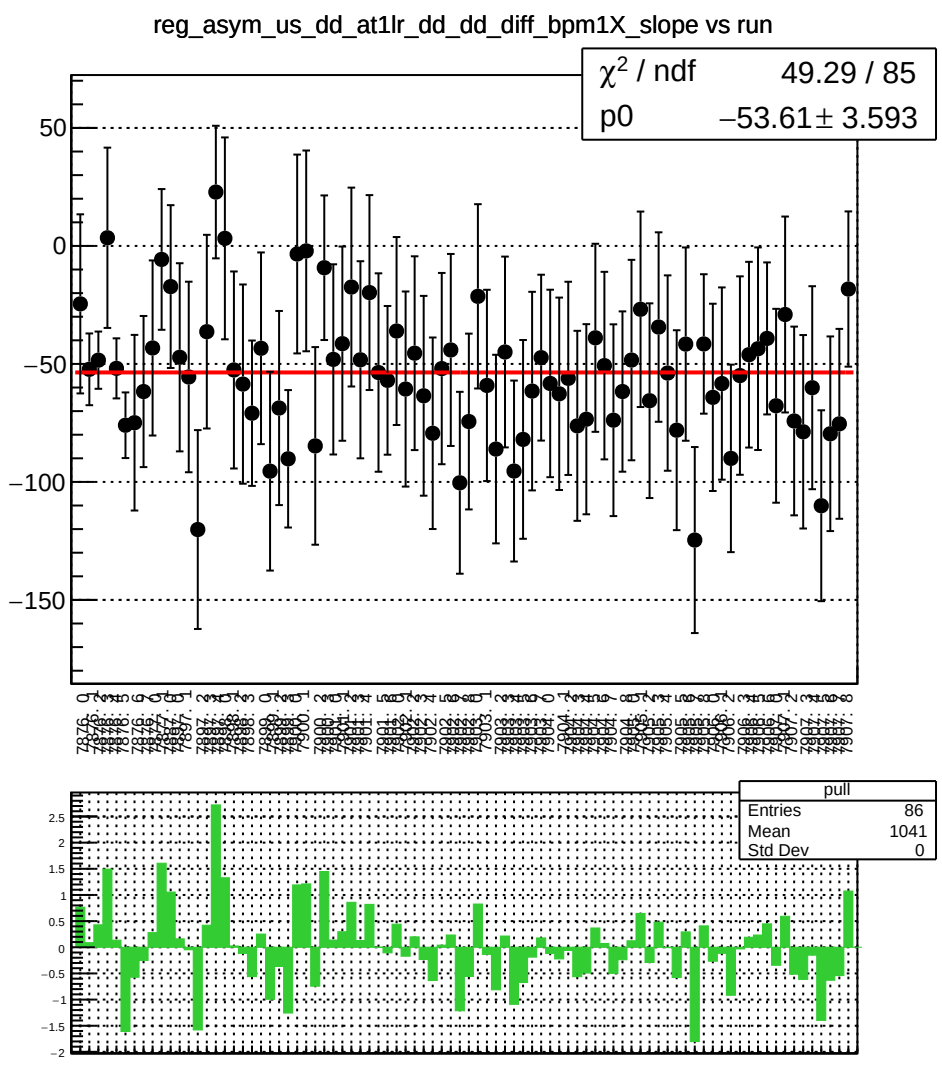

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.26 / 85
p0 −4.384 ± 3.538
pull
Entries 86
Mean 77.48
Std Dev 0
pull1D
Entries 86
Mean −0.03869
Std Dev 0.8221

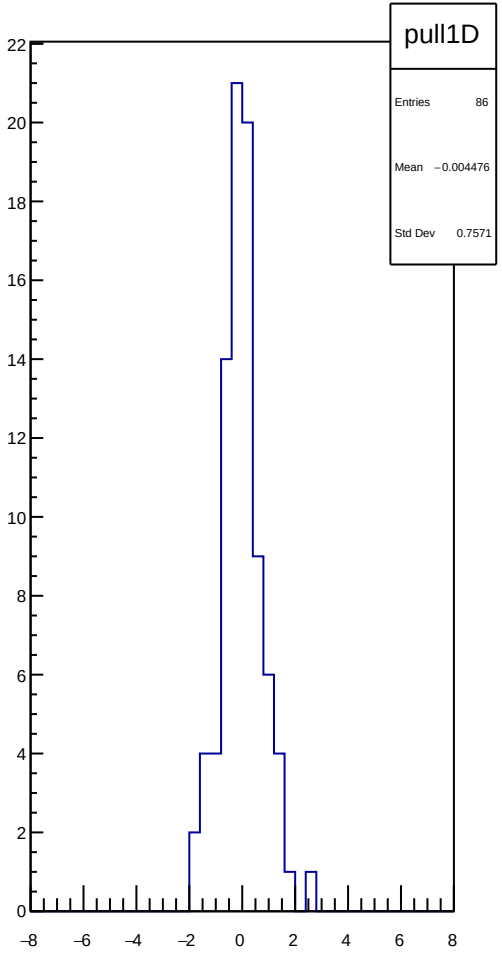

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 241.1 / 85
p0 −74.12 ± 2.617
50
0
−50
−100
−150
pull
Entries 86
Mean 53.68
Std Dev 14.01
2
0
−2
−4
−6
pull1D
Entries 86
Mean 0.7894
Std Dev 1.477
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

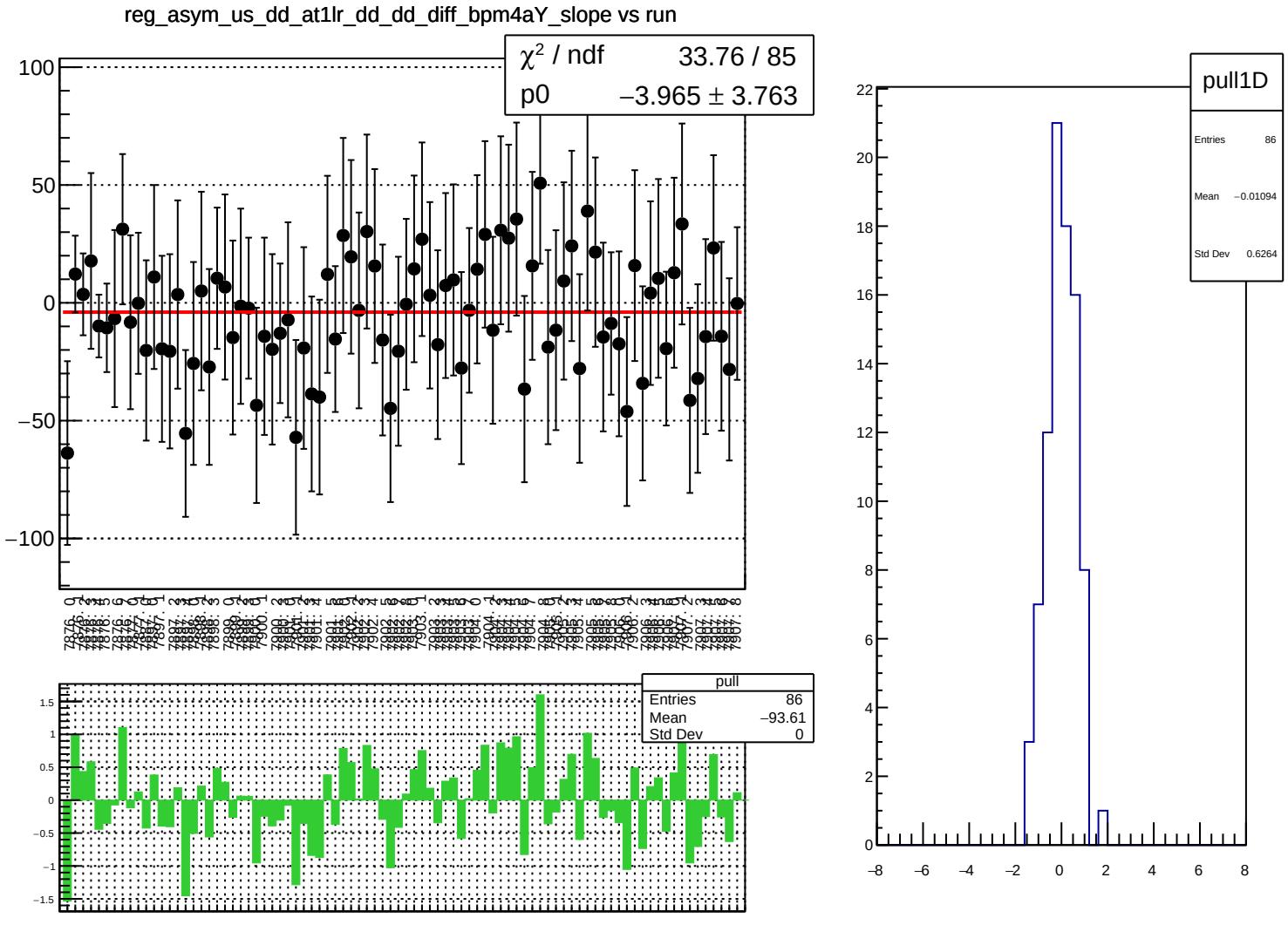

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.4 / 85
p0 −3.824 ± 4.464
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 72.49
Std Dev 30.64
2
1.5
1
0.5
0
−0.5
−1
−1.5

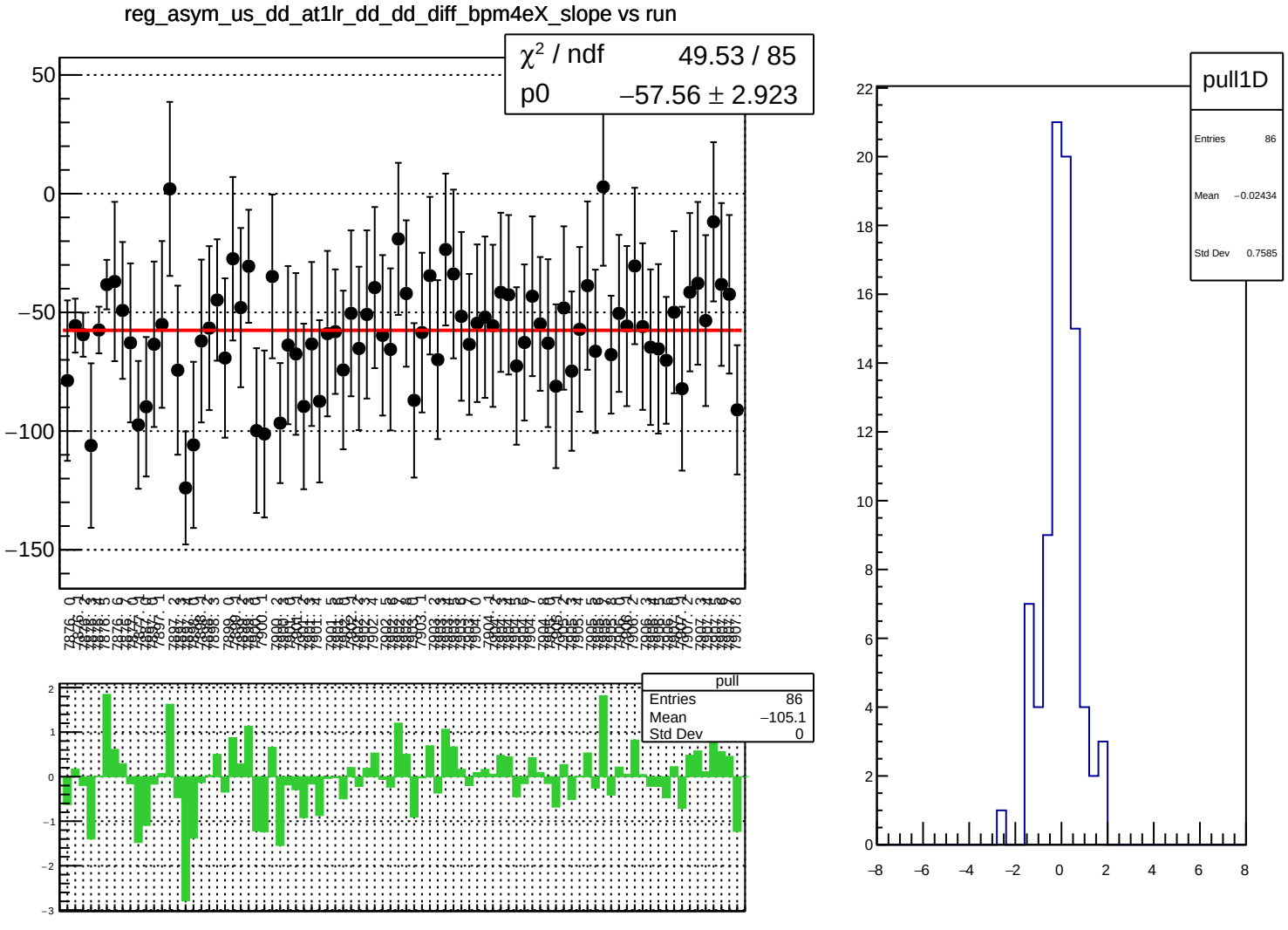

pull1D
Entries 86
Mean 0.007963
Std Dev 0.7953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

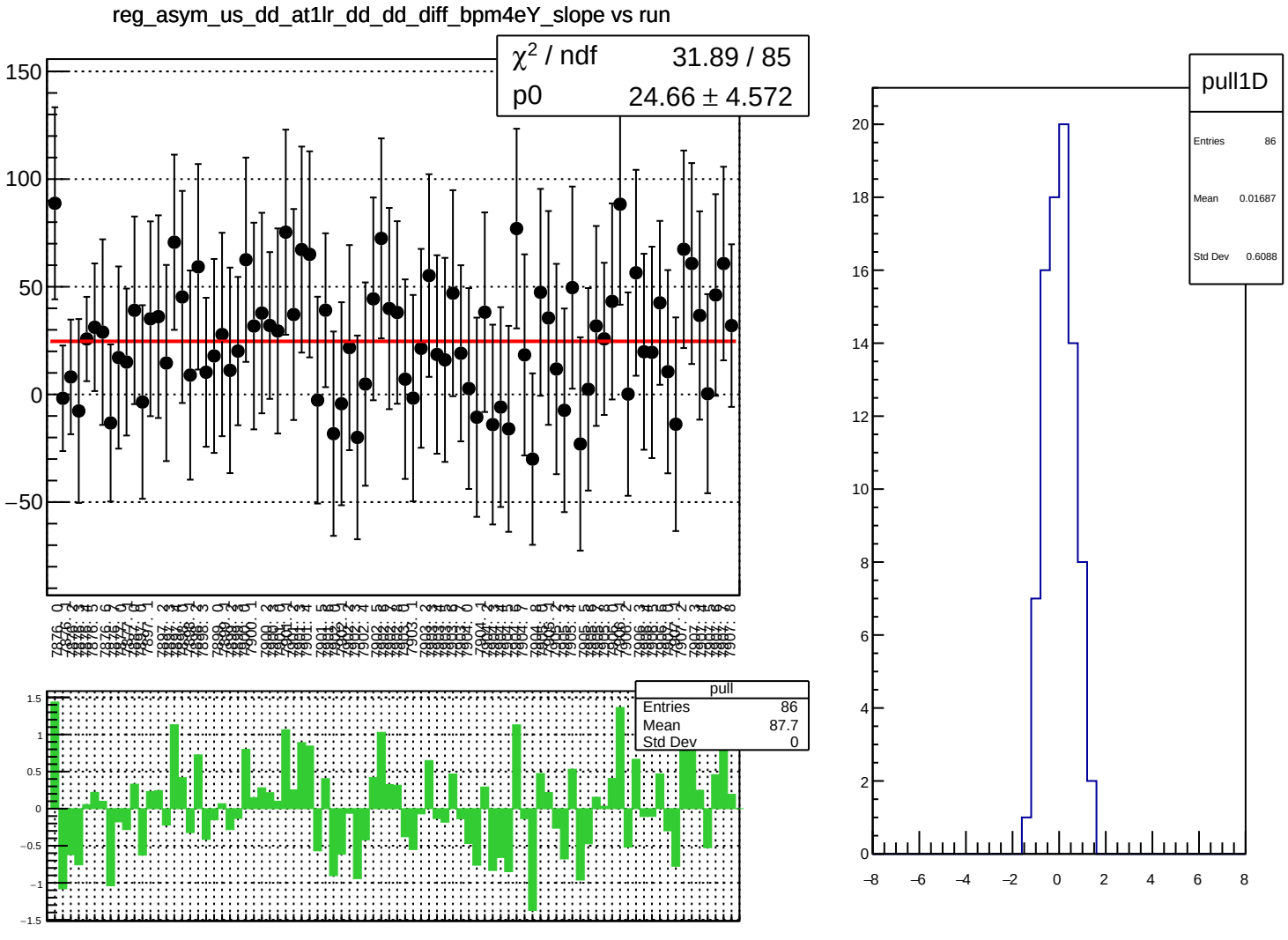

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 397.4 / 85
p0 31.4 ± 0.1544
pull
Entries 86
Mean 207.5
Std Dev 0
pull1D
Entries 86
Mean 0.1586
Std Dev 2.144

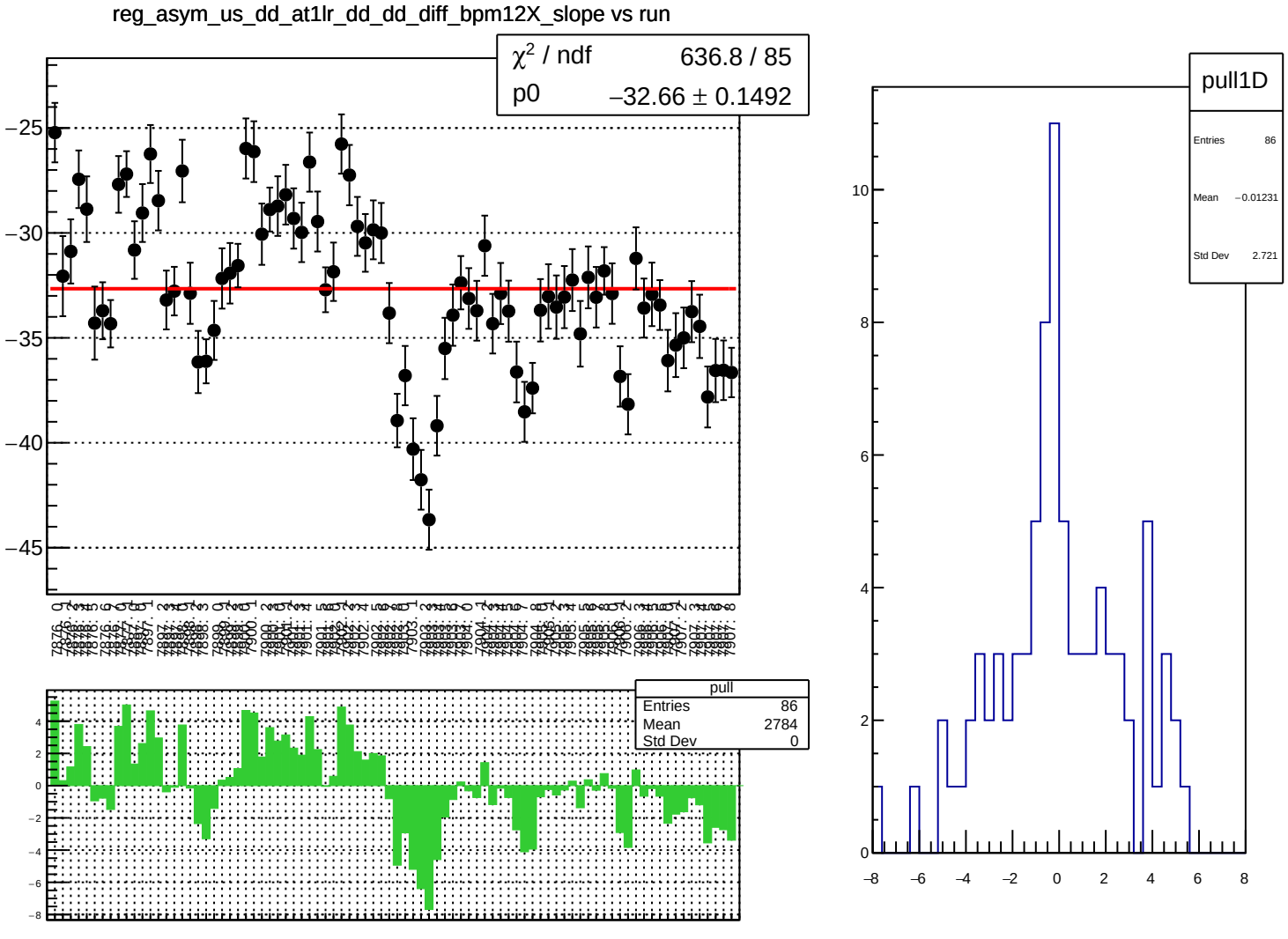

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 49.29 / 85
p0 −53.61 ± 3.593
50
0
−50
−100
−150
pull
Entries 86
Mean 1041
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

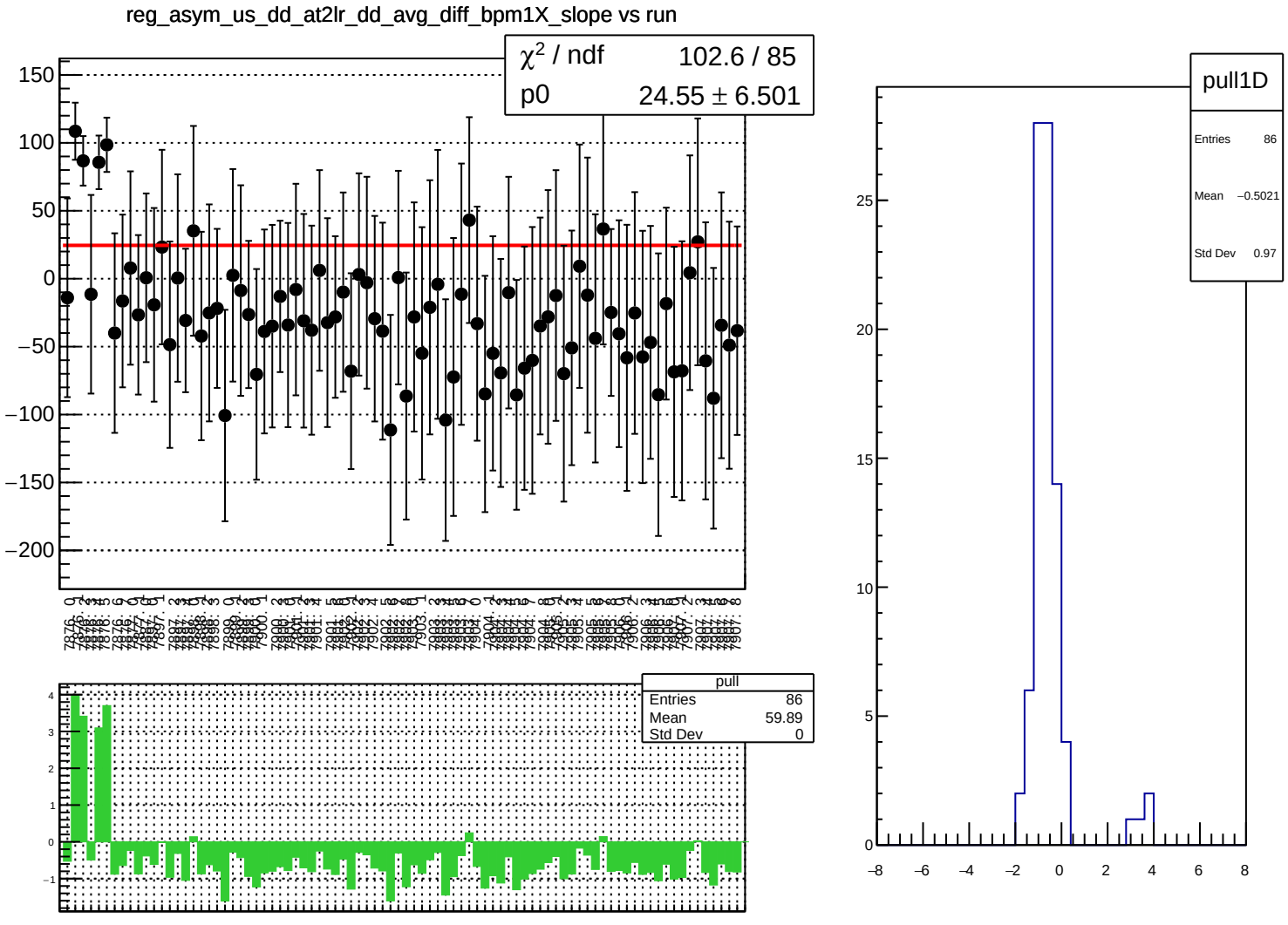

pull1D
Entries 86
Mean −0.004476
Std Dev 0.7571
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

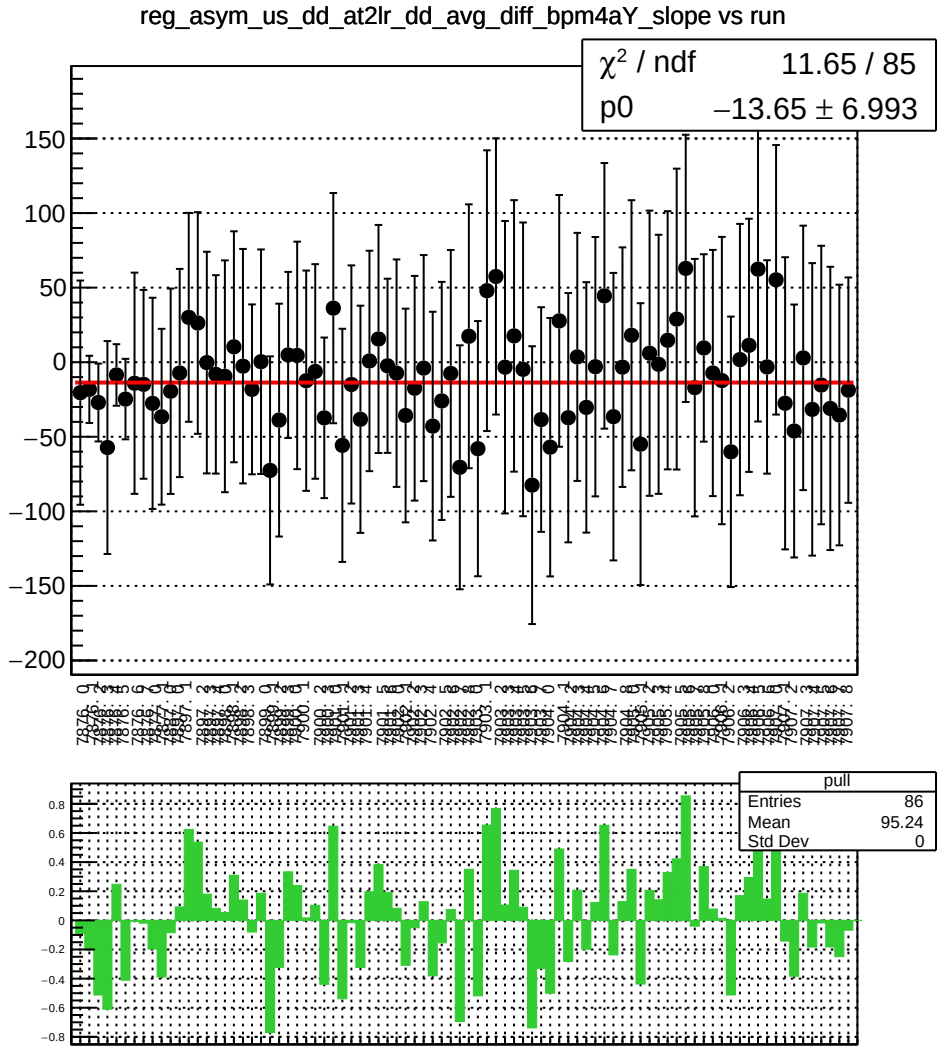

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.76 / 85
p0 −3.965 ± 3.763
pull
Entries 86
Mean −93.61
Std Dev 0
pull1D
Entries 86
Mean −0.01094
Std Dev 0.6264

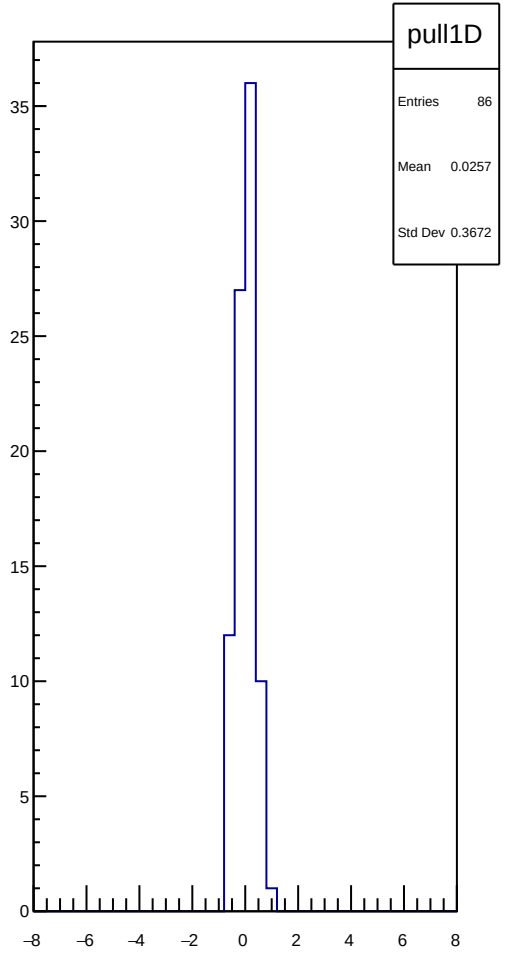

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.53 / 85
p0 −57.56 ± 2.923
pull
Entries 86
Mean −105.1
Std Dev 0
pull1D
Entries 86
Mean −0.02434
Std Dev 0.7585

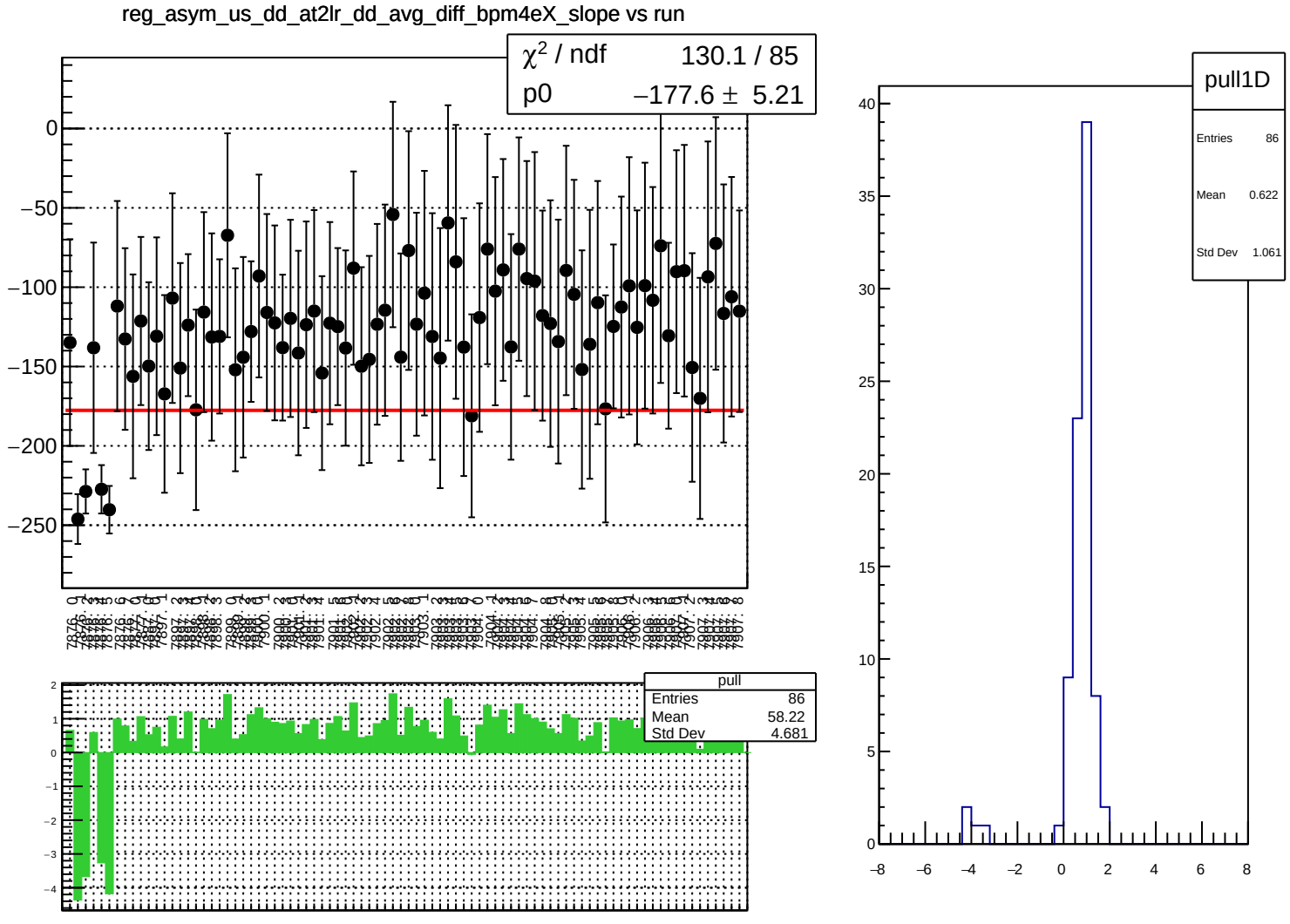

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.89 / 85
p0 24.66 ± 4.572
150
100
50
0
−50
pull
Entries 86
Mean 87.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.01687
Std Dev 0.6088
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

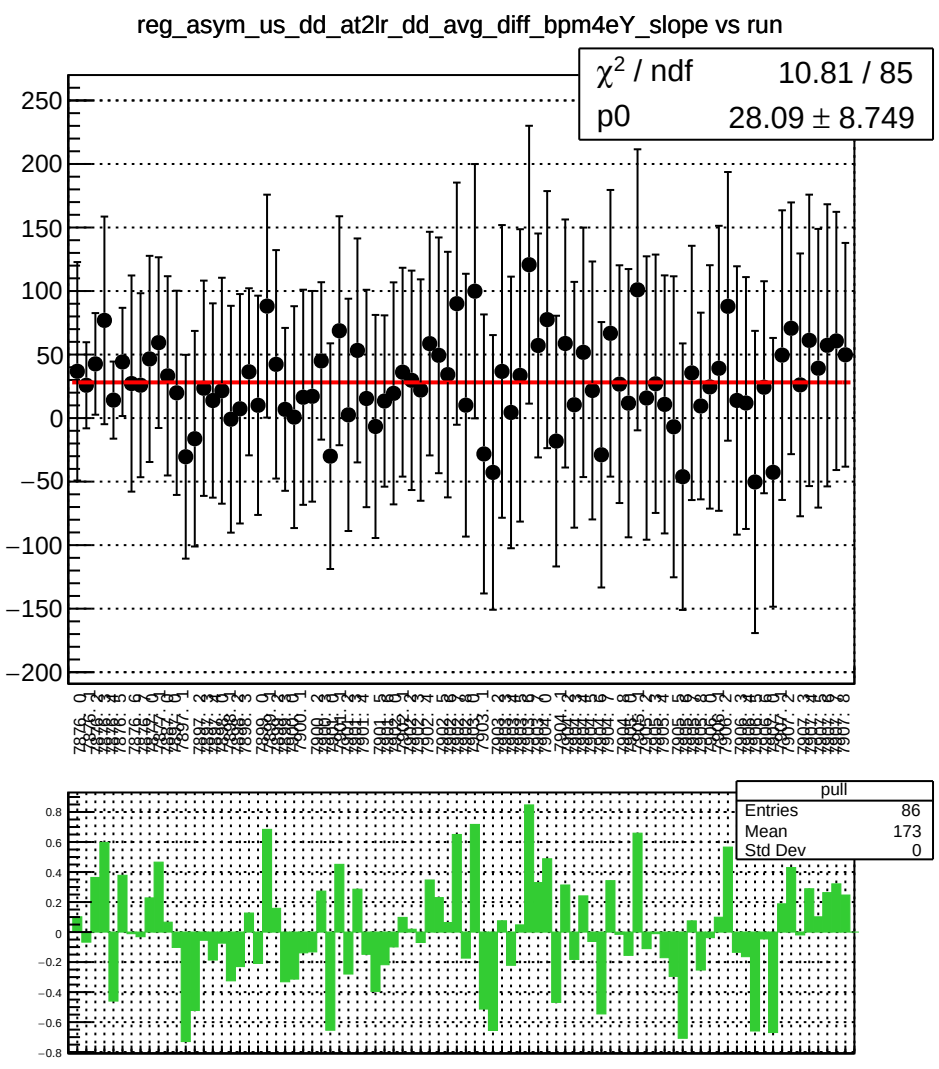

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 636.8 / 85
p0 −32.66 ± 0.1492
pull
Entries 86
Mean 2784
Std Dev 0
pull1D
Entries 86
Mean −0.01231
Std Dev 2.721

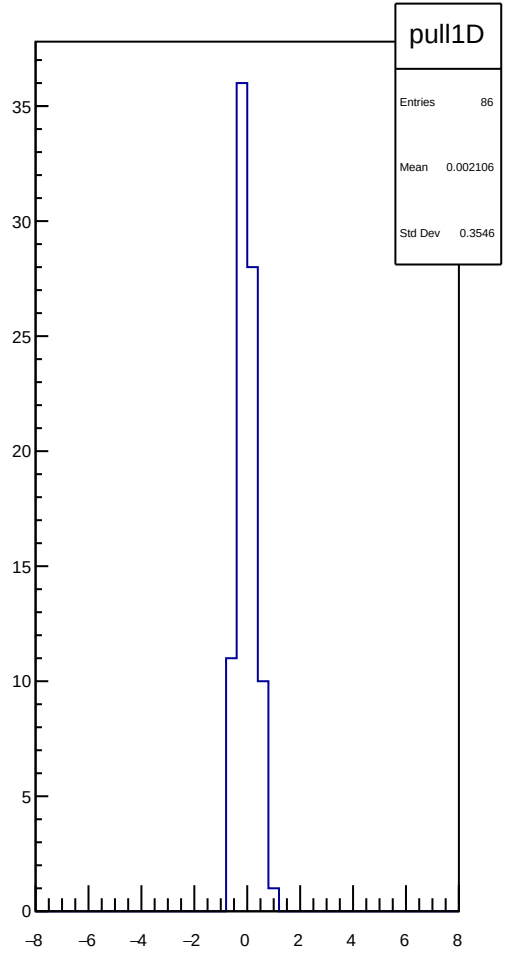

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 102.6 / 85
p0 24.55 ± 6.501
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 59.89
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 86
Mean −0.5021
Std Dev 0.97
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

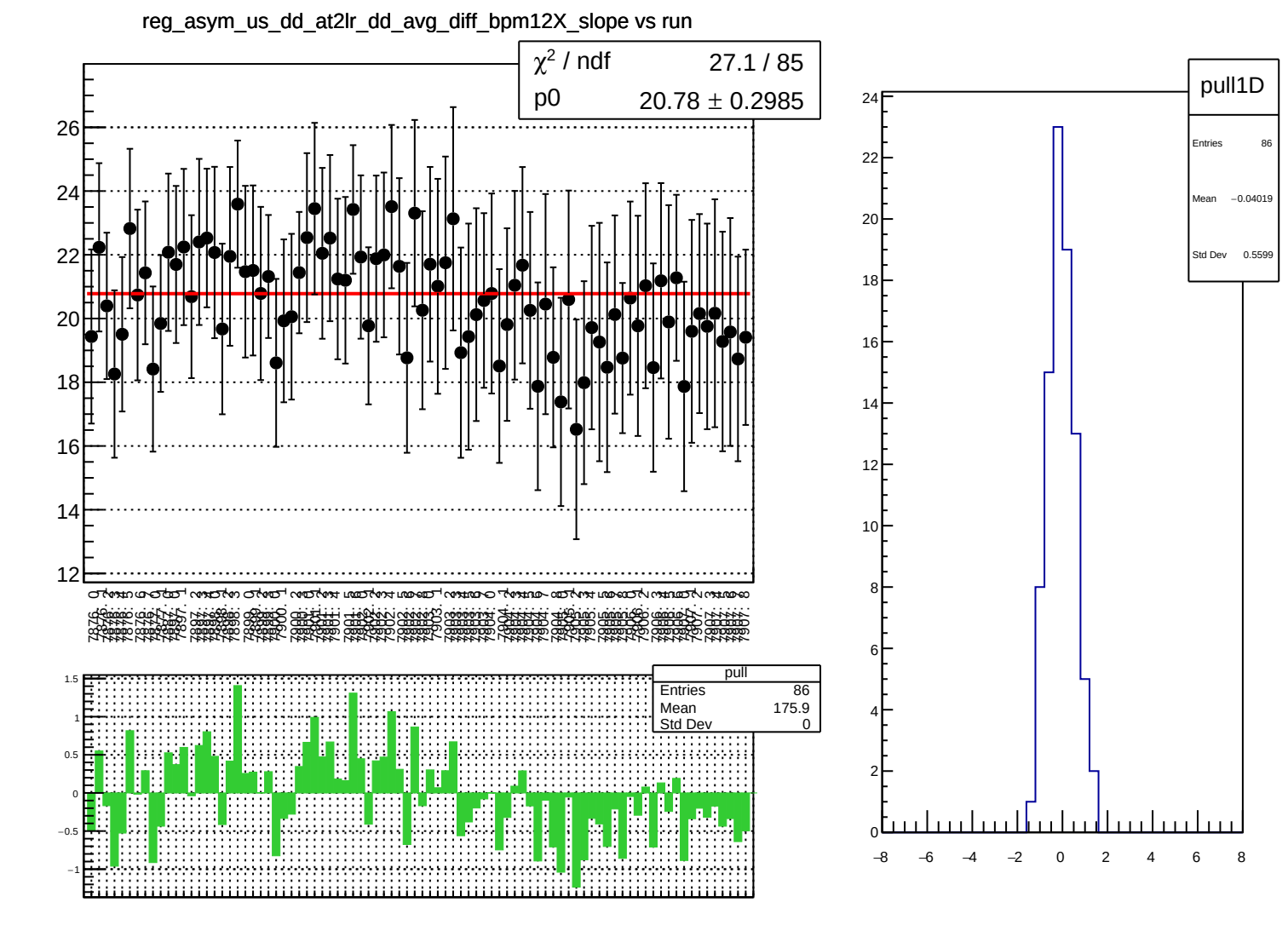

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.65 / 85
p0 −13.65 ± 6.993
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 95.24
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

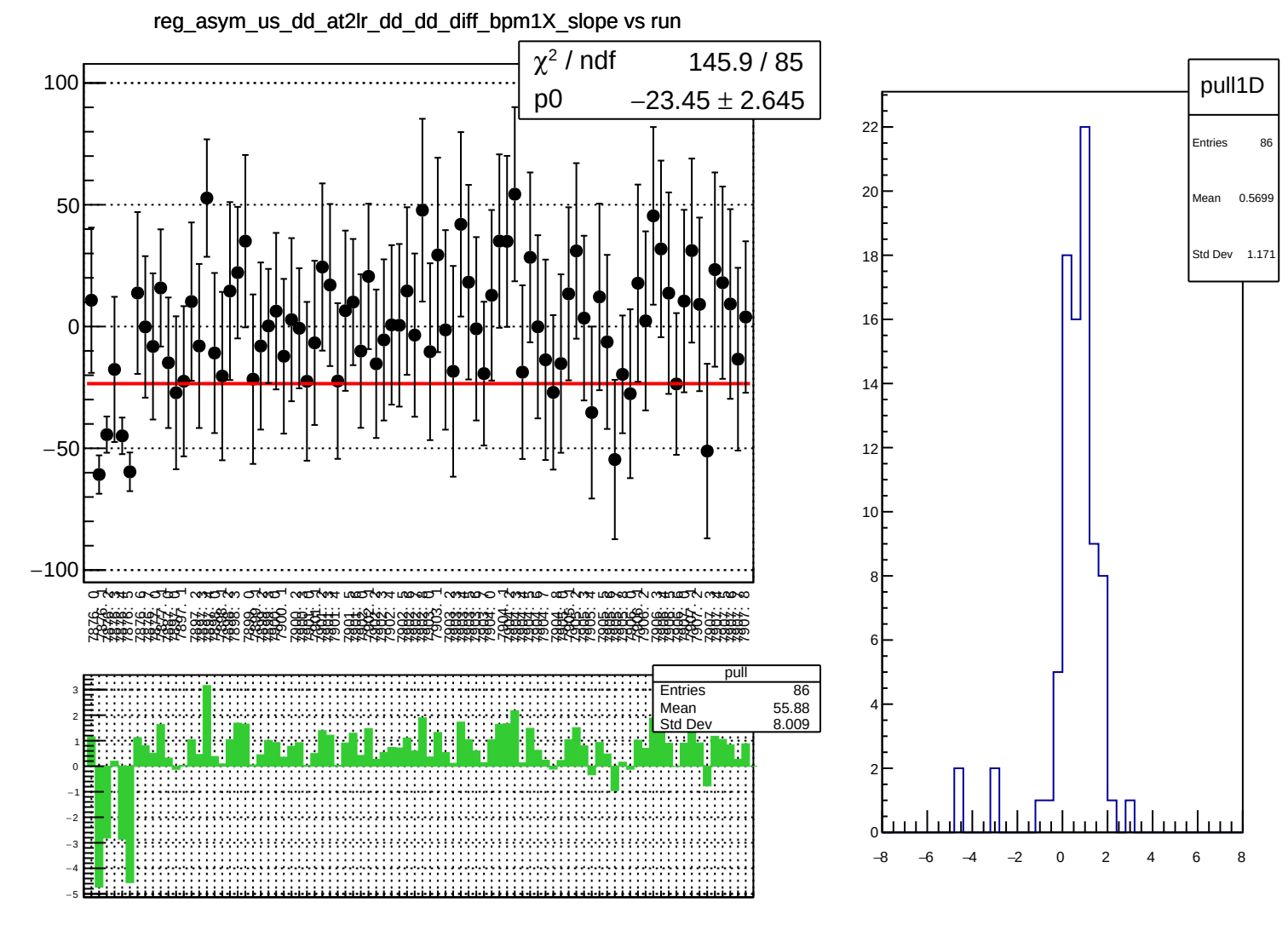

pull1D
Entries 86
Mean 0.0257
Std Dev 0.3672
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

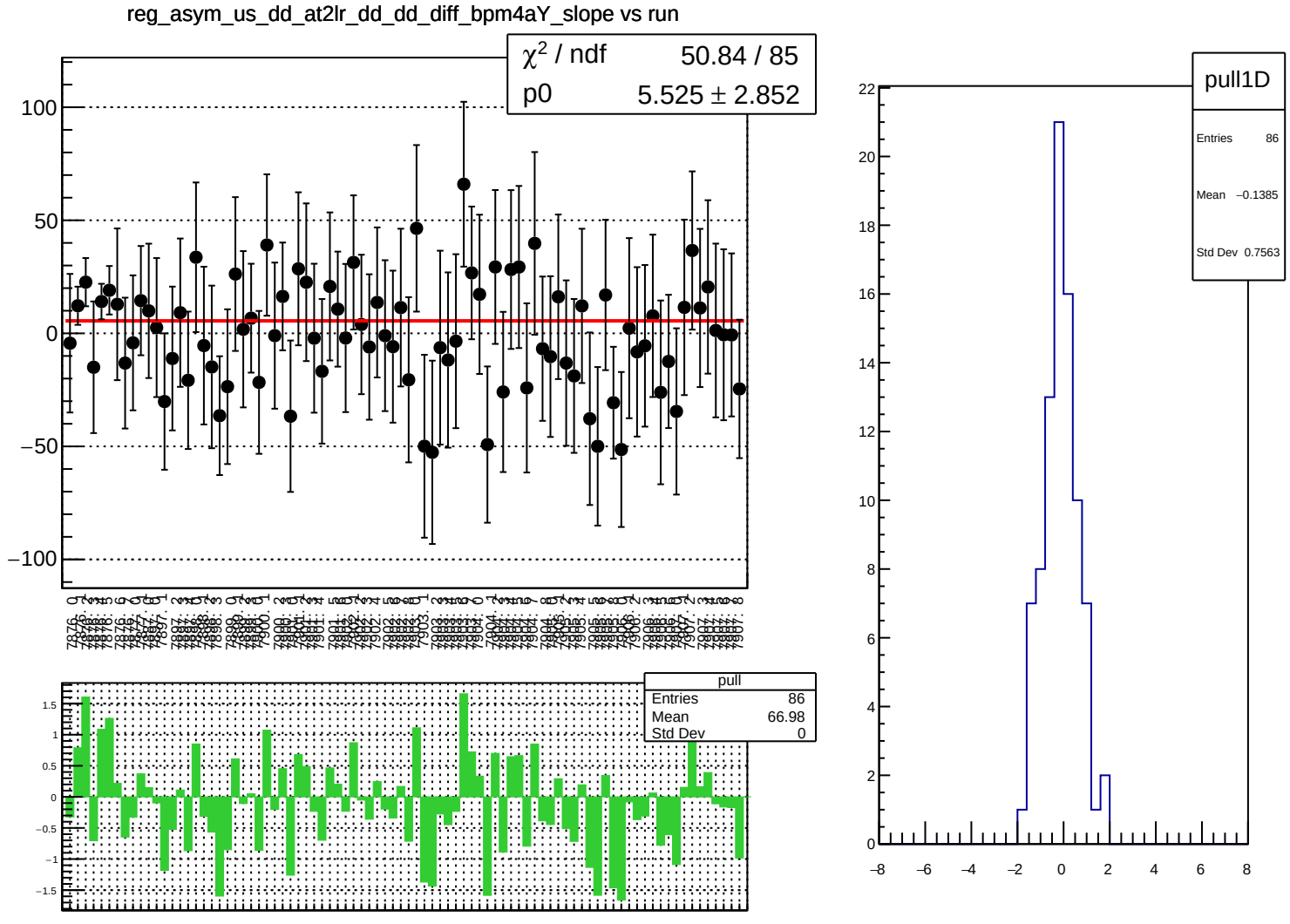

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 130.1 / 85
p0 −177.6 ± 5.21
pull
Entries 86
Mean 58.22
Std Dev 4.681
pull1D
Entries 86
Mean 0.622
Std Dev 1.061

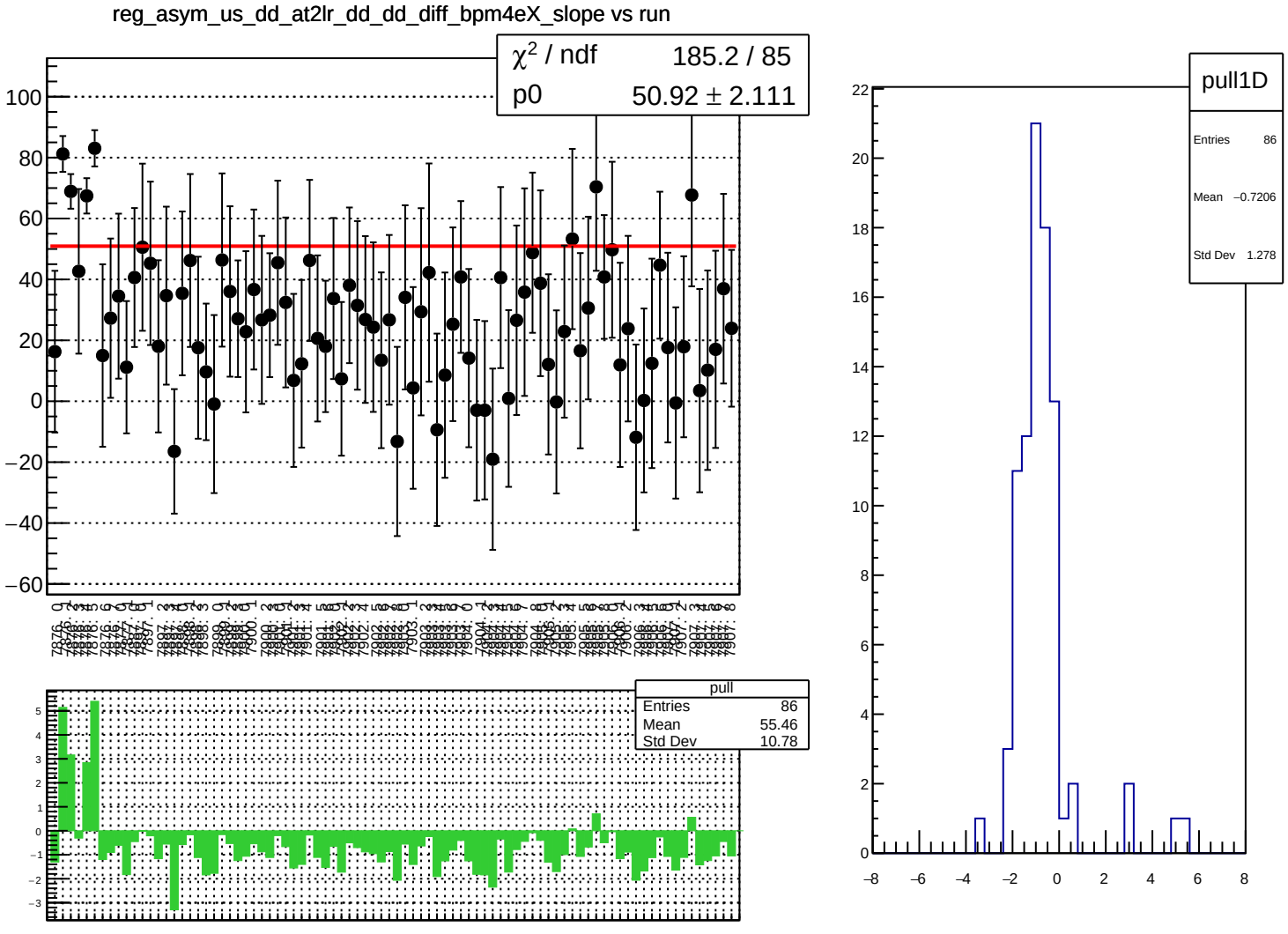

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.81 / 85
p0 28.09 ± 8.749
pull
Entries 86
Mean 173
Std Dev 0

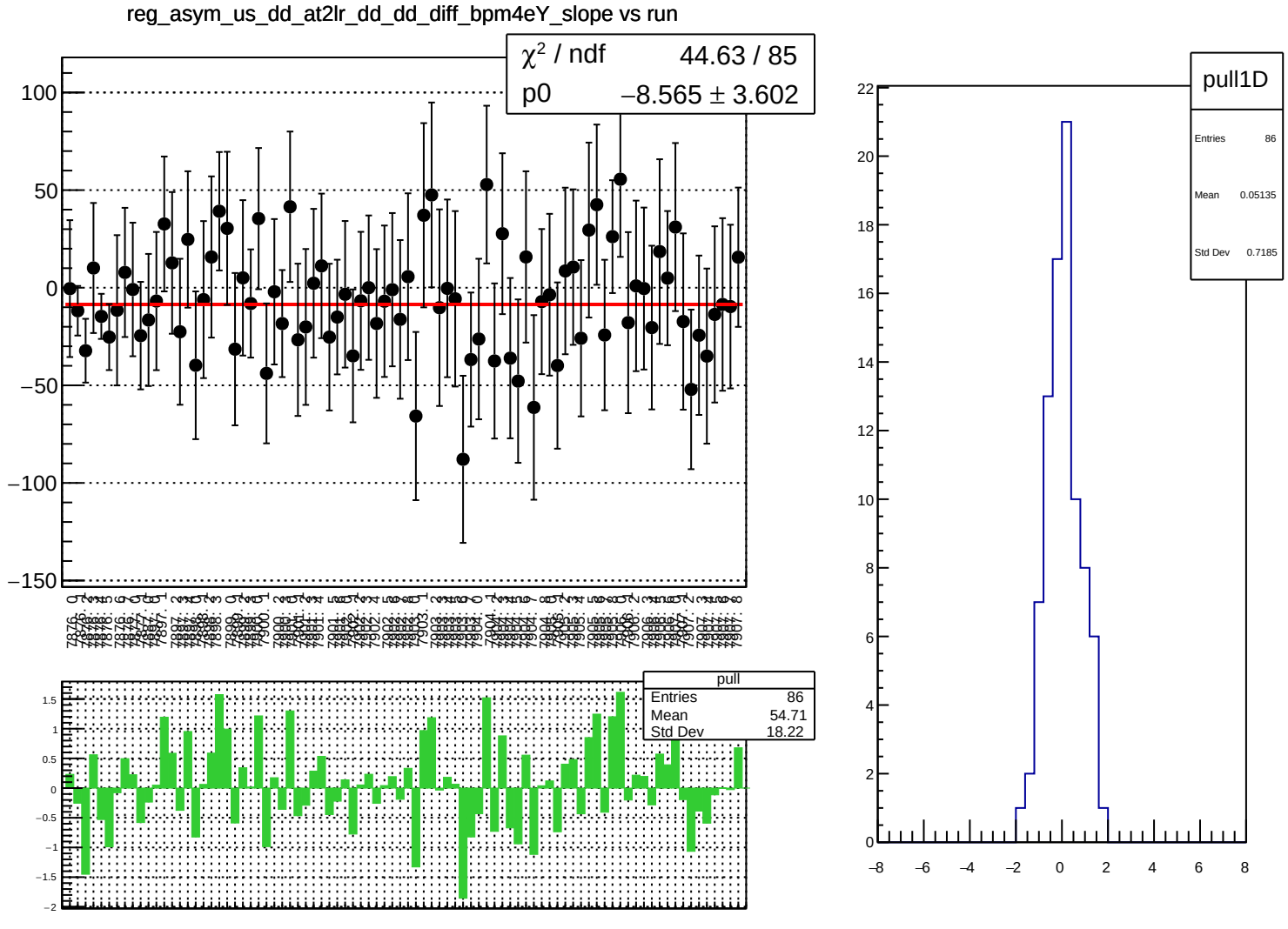

pull1D
Entries 86
Mean 0.002106
Std Dev 0.3546

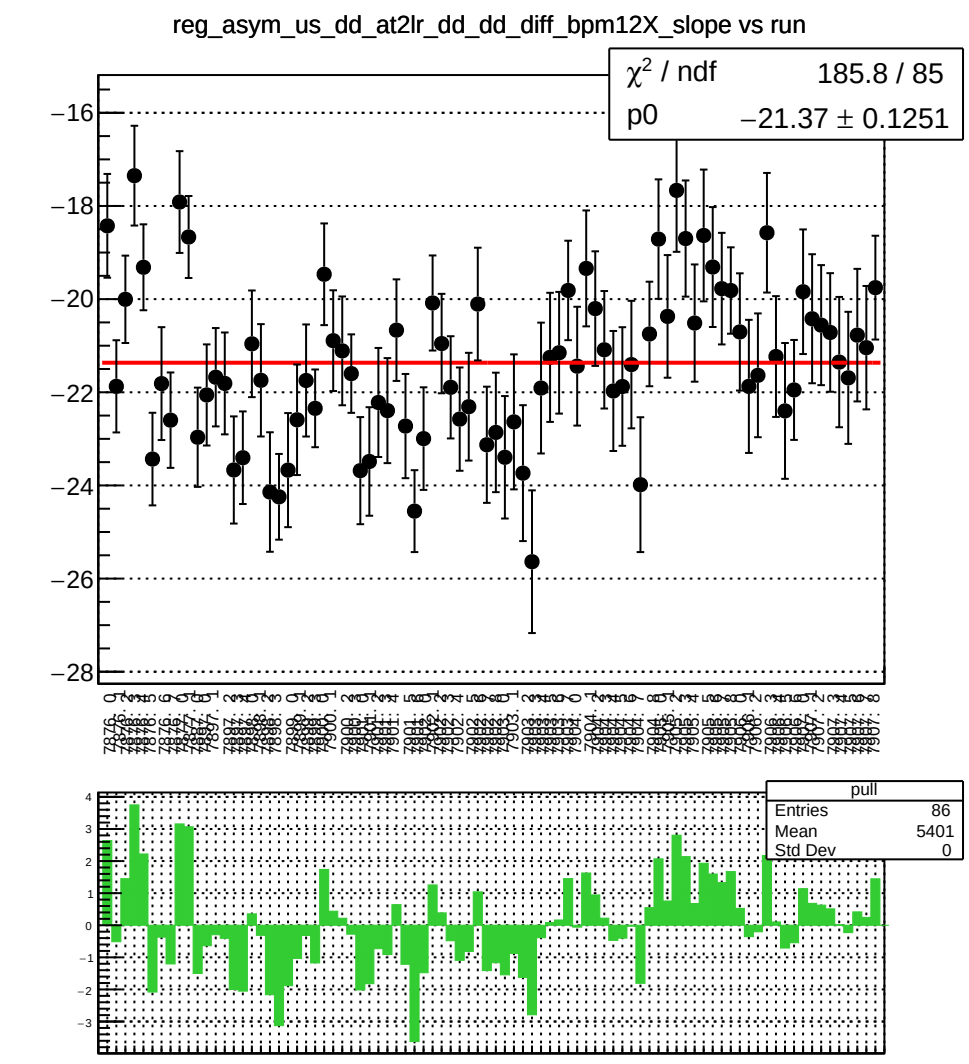

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.1 / 85
p0 20.78 ± 0.2985
pull
Entries 86
Mean 175.9
Std Dev 0
pull1D
Entries 86
Mean −0.04019
Std Dev 0.5599

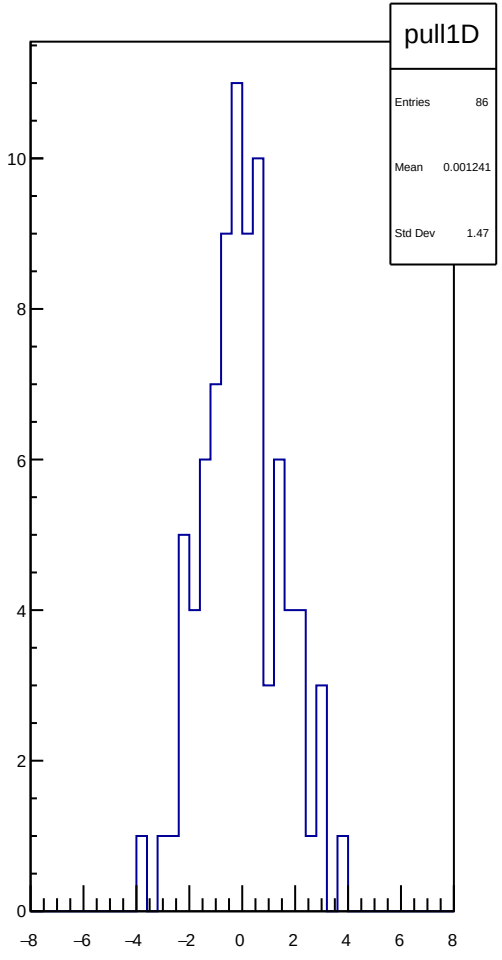

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 145.9 / 85
p0 −23.45 ± 2.645
pull
Entries 86
Mean 55.88
Std Dev 8.009
pull1D
Entries 86
Mean 0.5699
Std Dev 1.171

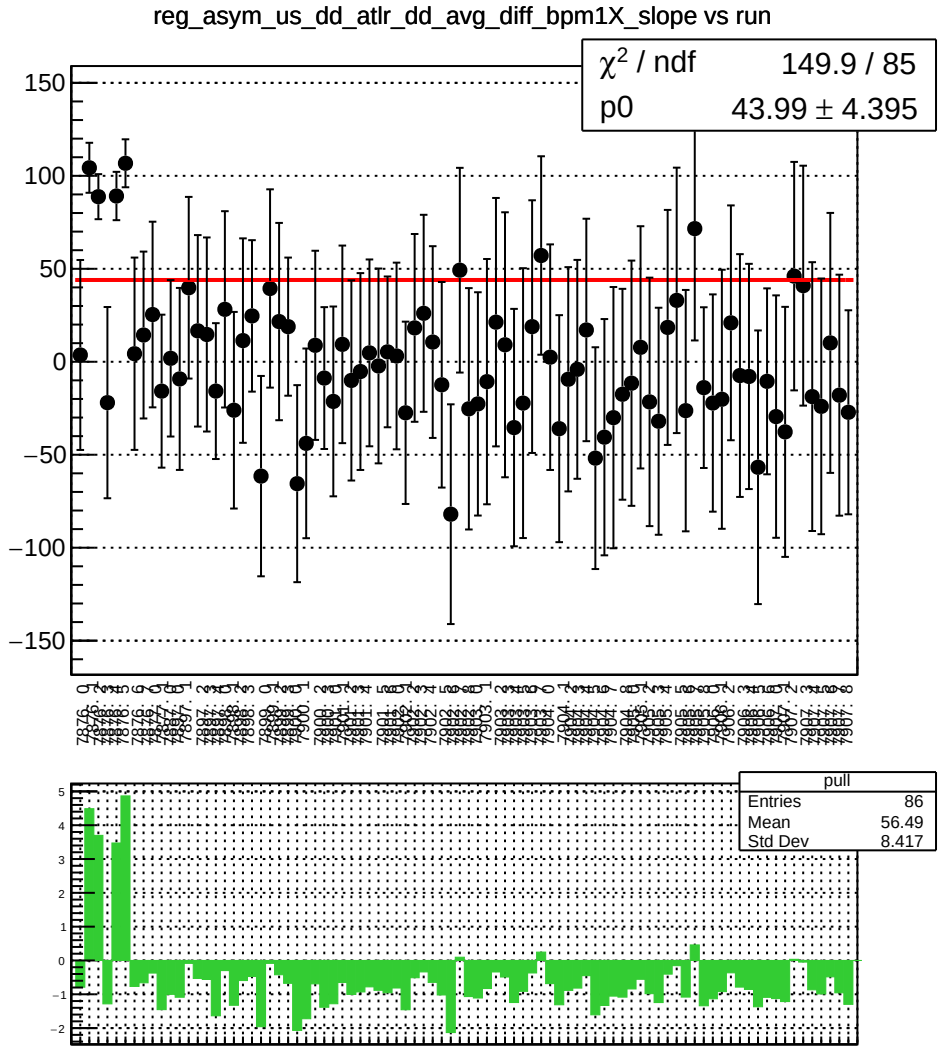

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.84 / 85
p0 5.525 ± 2.852
100
50
0
−50
−100
pull
Entries 86
Mean 66.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean −0.1385
Std Dev 0.7563
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

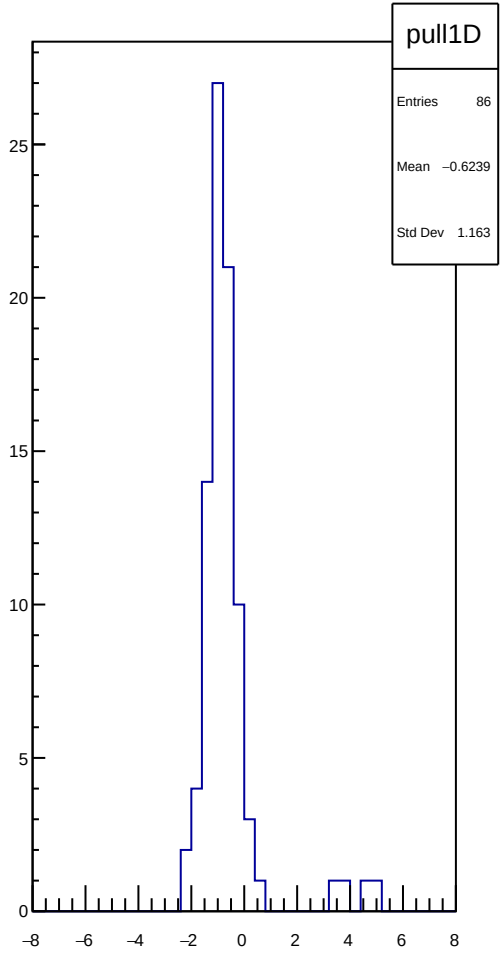

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 185.2 / 85
p0 50.92 ± 2.111
pull
Entries 86
Mean 55.46
Std Dev 10.78
pull1D
Entries 86
Mean −0.7206
Std Dev 1.278

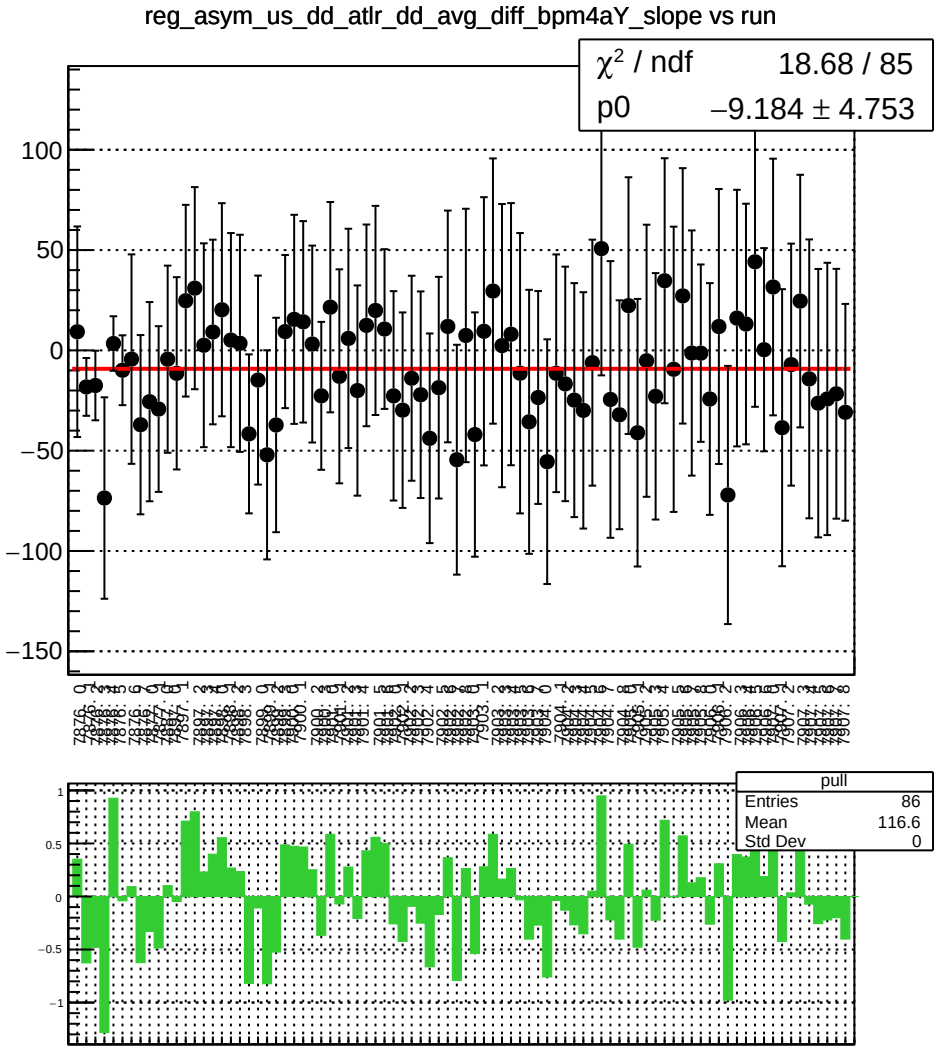

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.63 / 85
p0 −8.565 ± 3.602
pull
Entries 86
Mean 54.71
Std Dev 18.22
pull1D
Entries 86
Mean 0.05135
Std Dev 0.7185

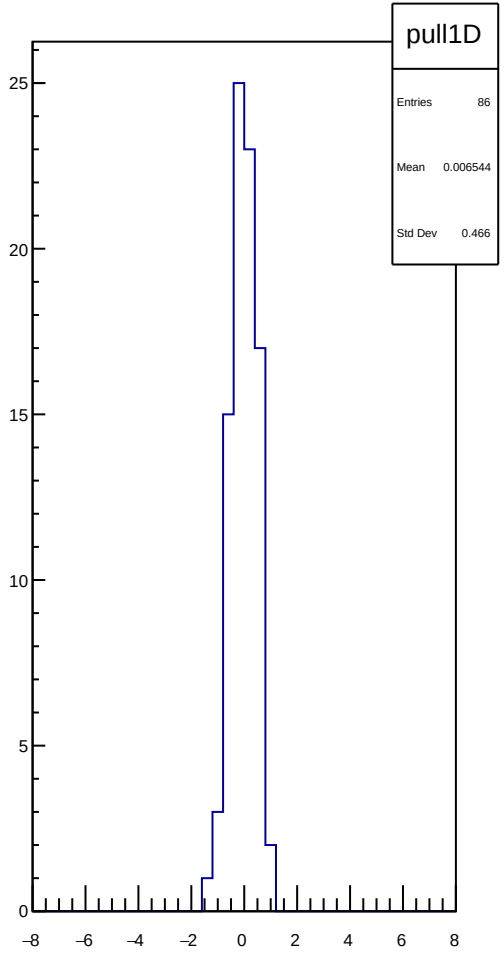

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 185.8 / 85
p0 −21.37 ± 0.1251
pull
Entries 86
Mean 5401
Std Dev 0

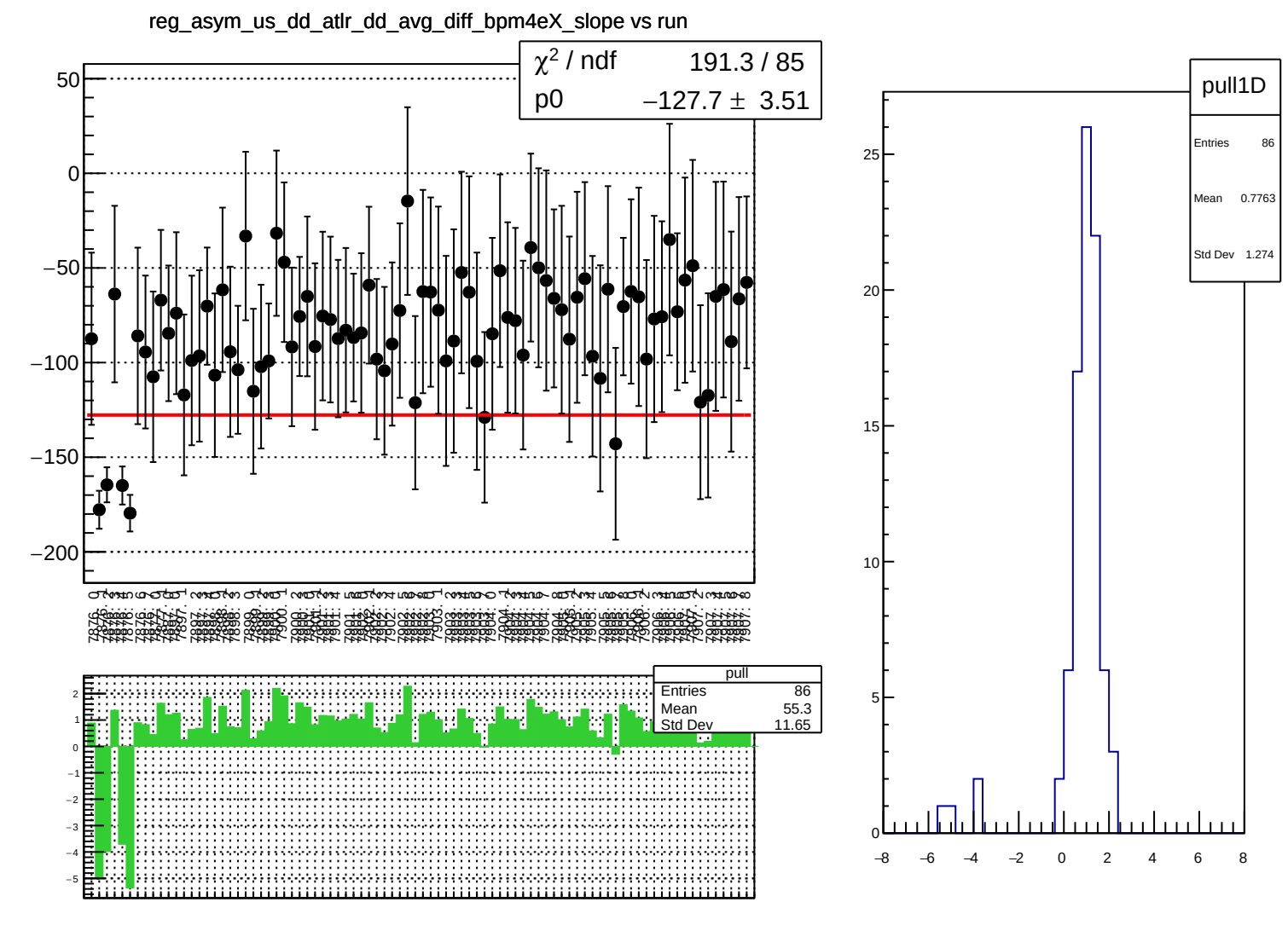

pull1D
Entries 86
Mean 0.001241
Std Dev 1.47

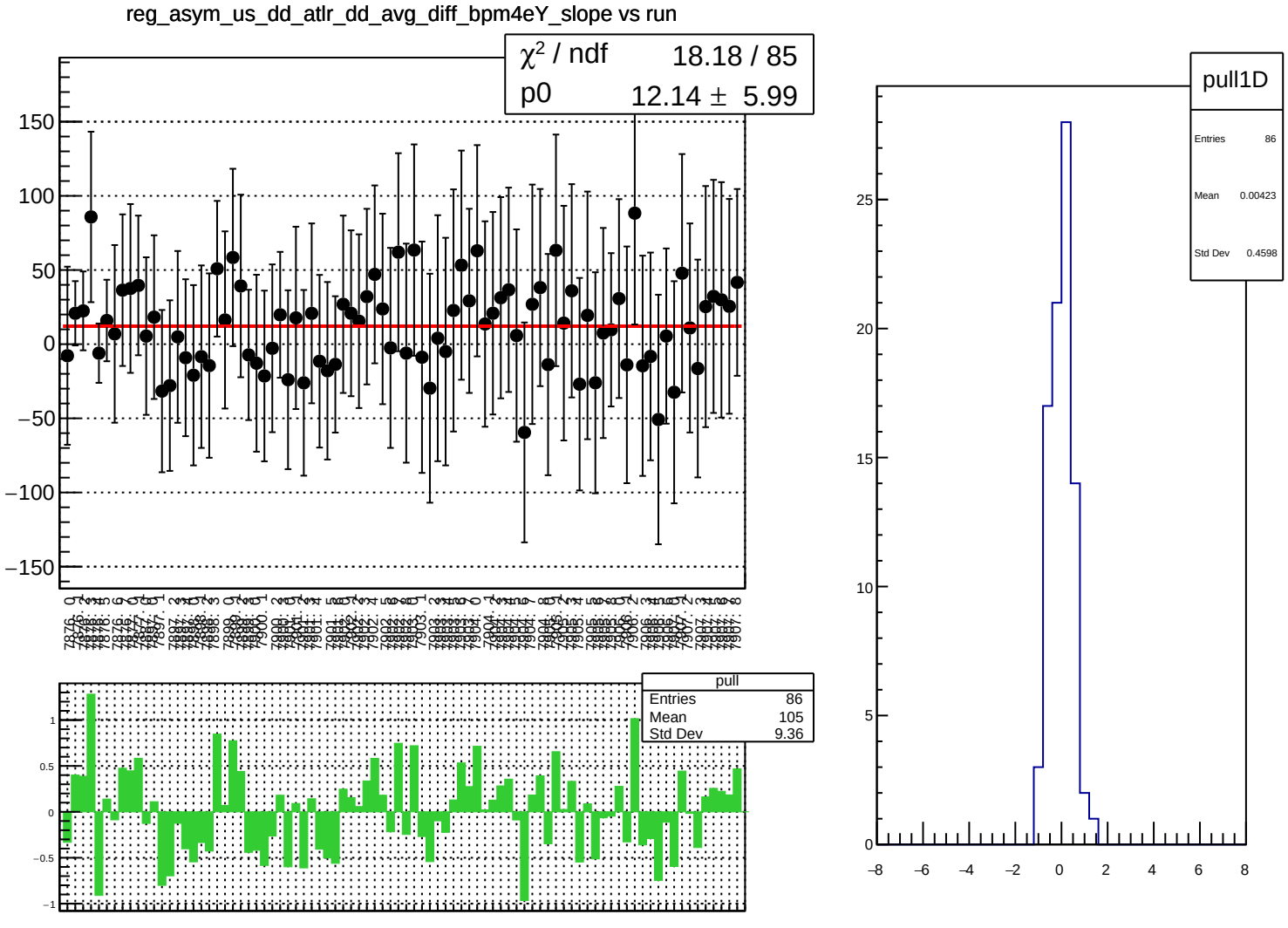

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 149.9 / 85
p0 43.99 ± 4.395
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 56.49
Std Dev 8.417
5
4
3
2
1
0
−1
−2

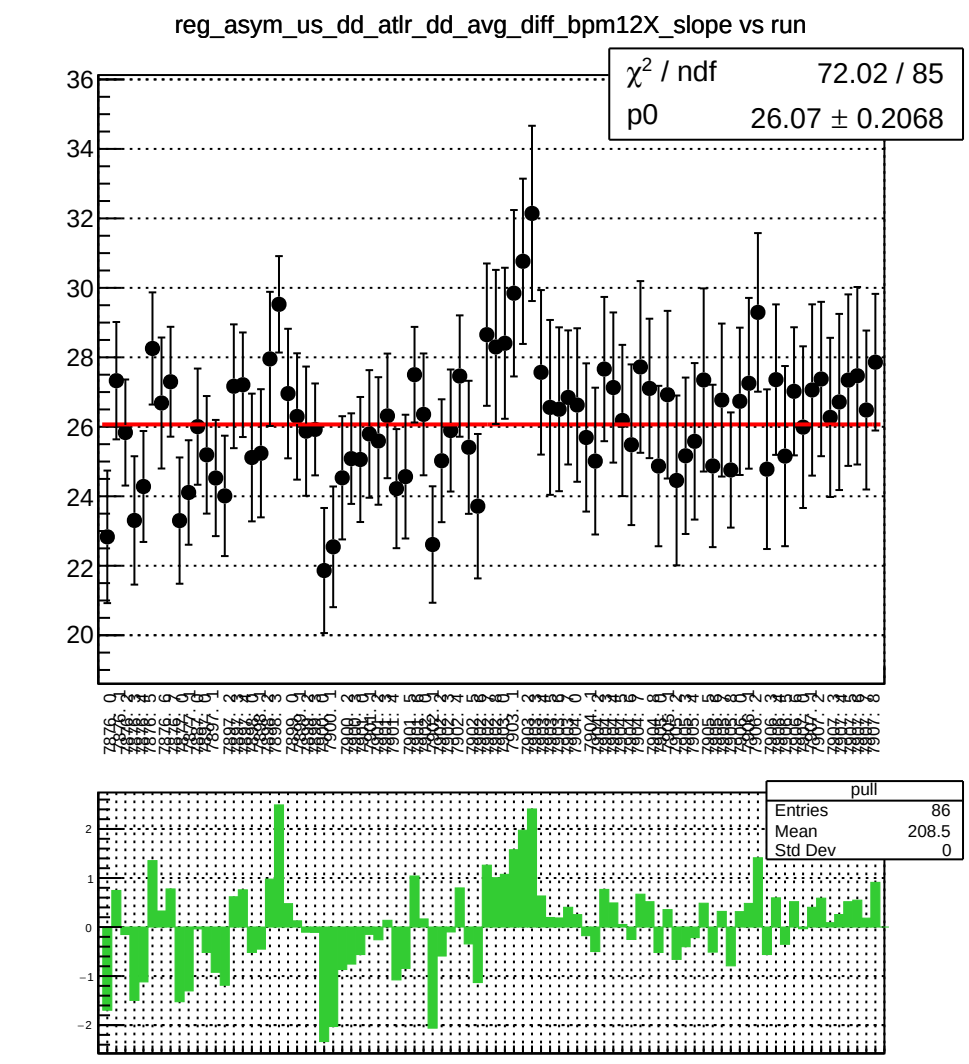

pull1D
Entries 86
Mean −0.6239
Std Dev 1.163
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

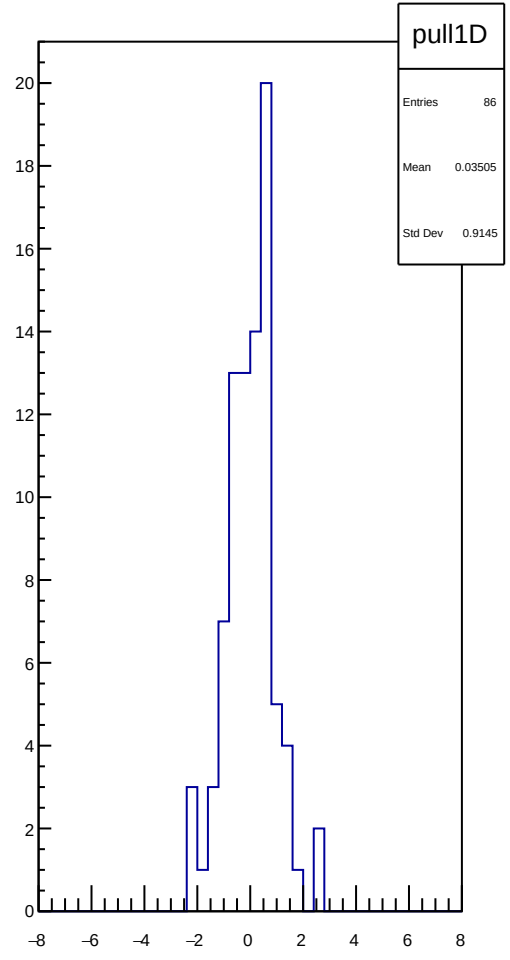

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.68 / 85
p0 −9.184 ± 4.753
100
50
0
−50
−100
−150
pull
Entries 86
Mean 116.6
Std Dev 0
1
0.5
0
−0.5
−1

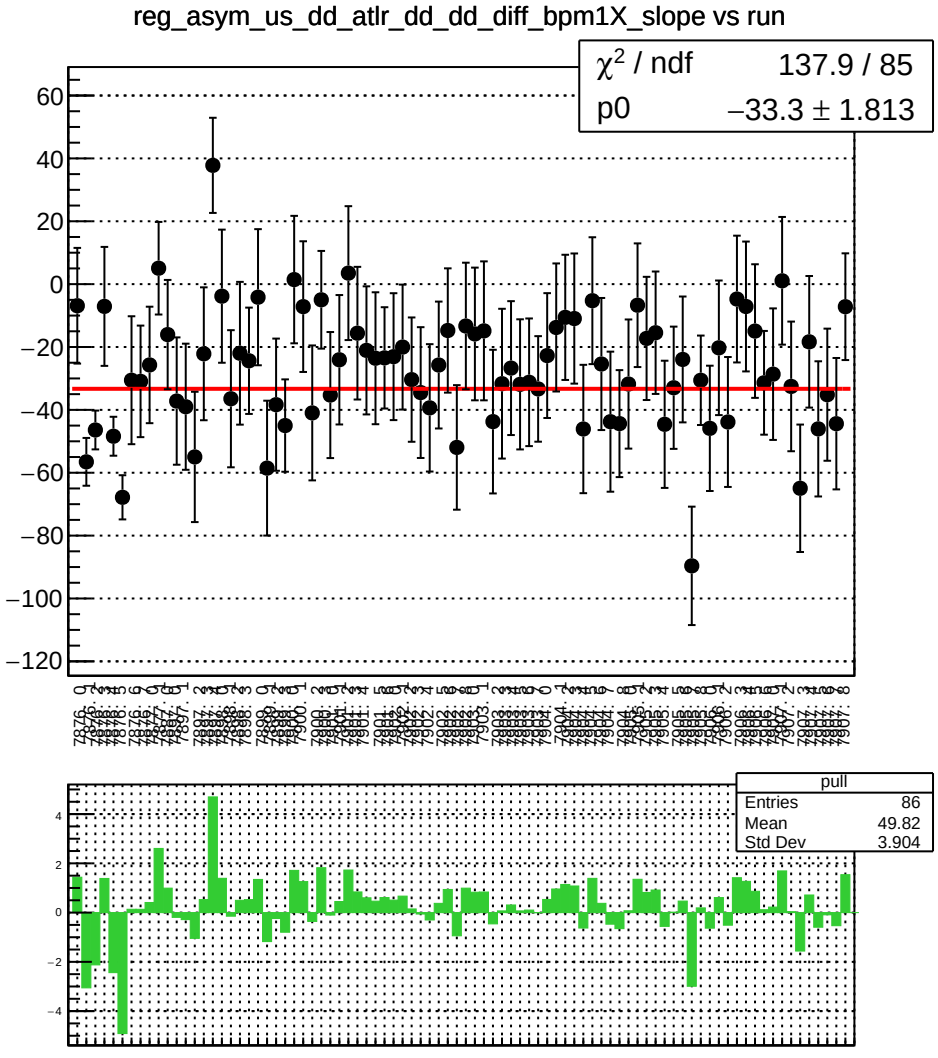

pull1D
Entries 86
Mean 0.006544
Std Dev 0.466
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

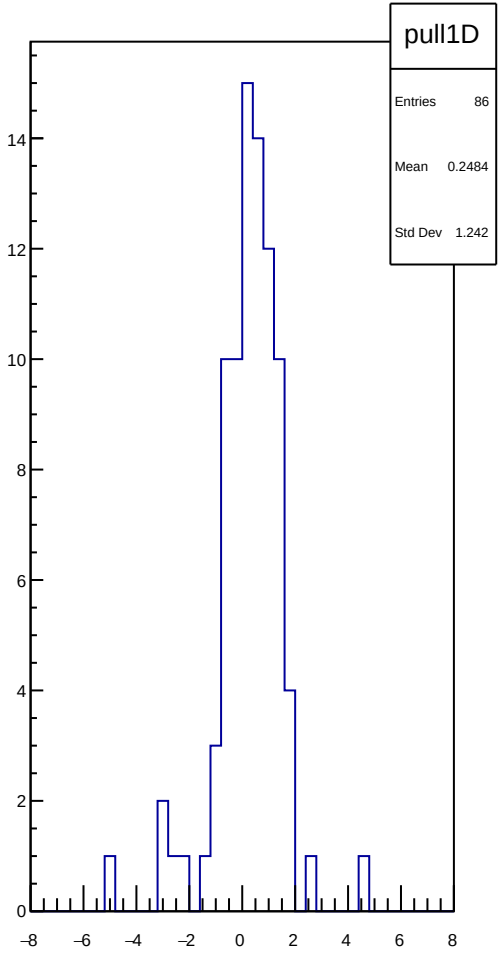

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 191.3 / 85
p0 −127.7 ± 3.51
pull
Entries 86
Mean 55.3
Std Dev 11.65
pull1D
Entries 86
Mean 0.7763
Std Dev 1.274

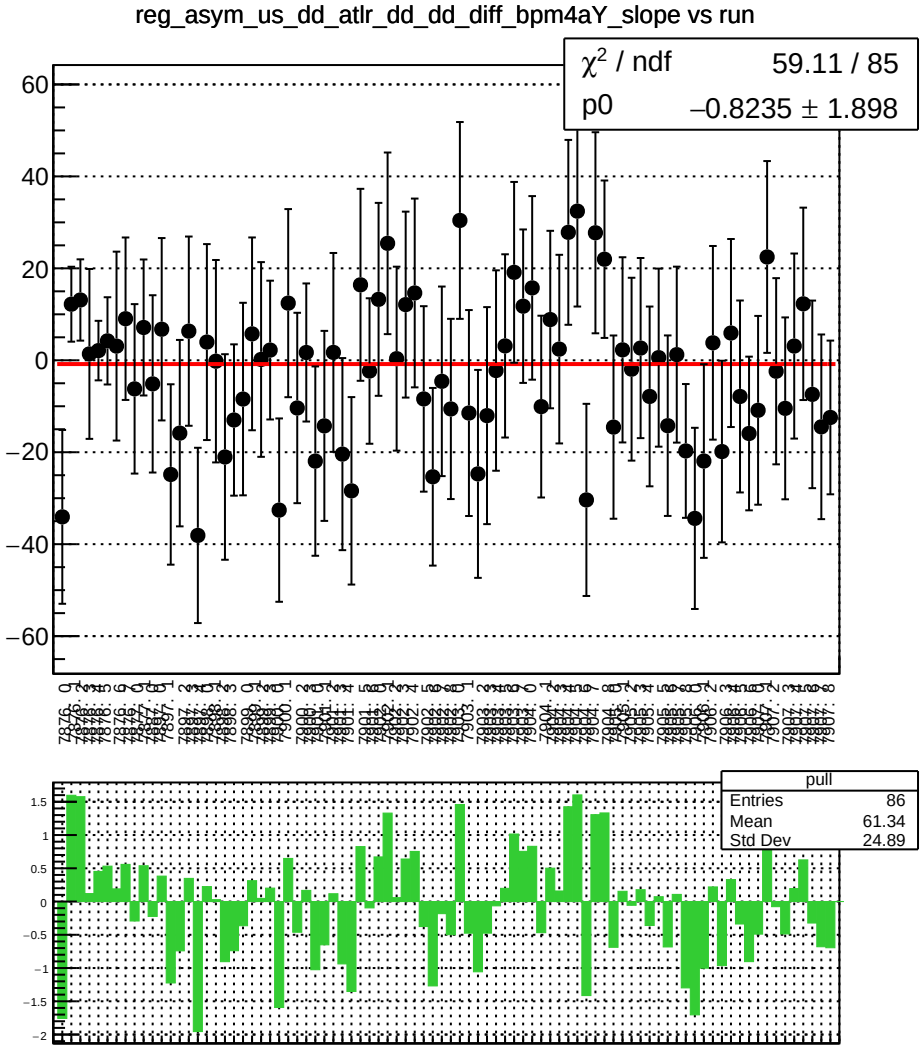

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.18 / 85
p0 12.14 ± 5.99
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 105
Std Dev 9.36
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean 0.00423
Std Dev 0.4598
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

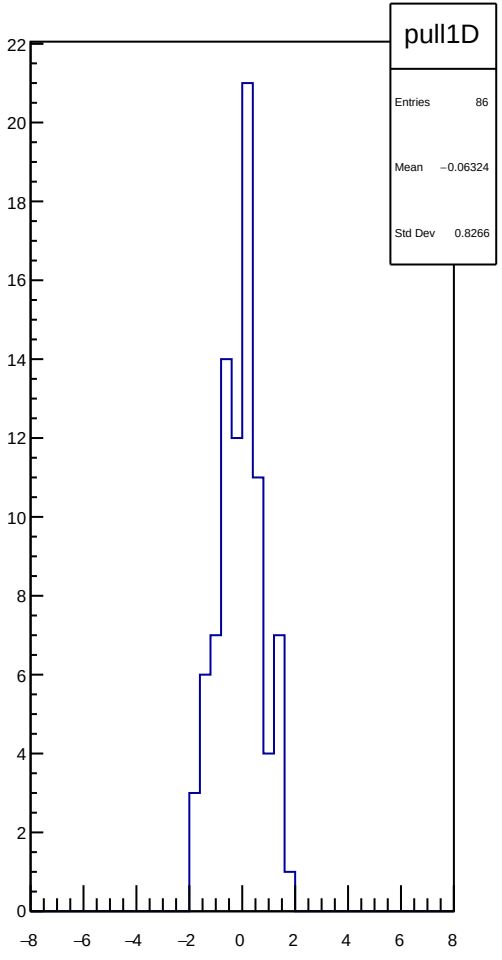

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 72.02 / 85
p0 26.07 ± 0.2068
pull
Entries 86
Mean 208.5
Std Dev 0

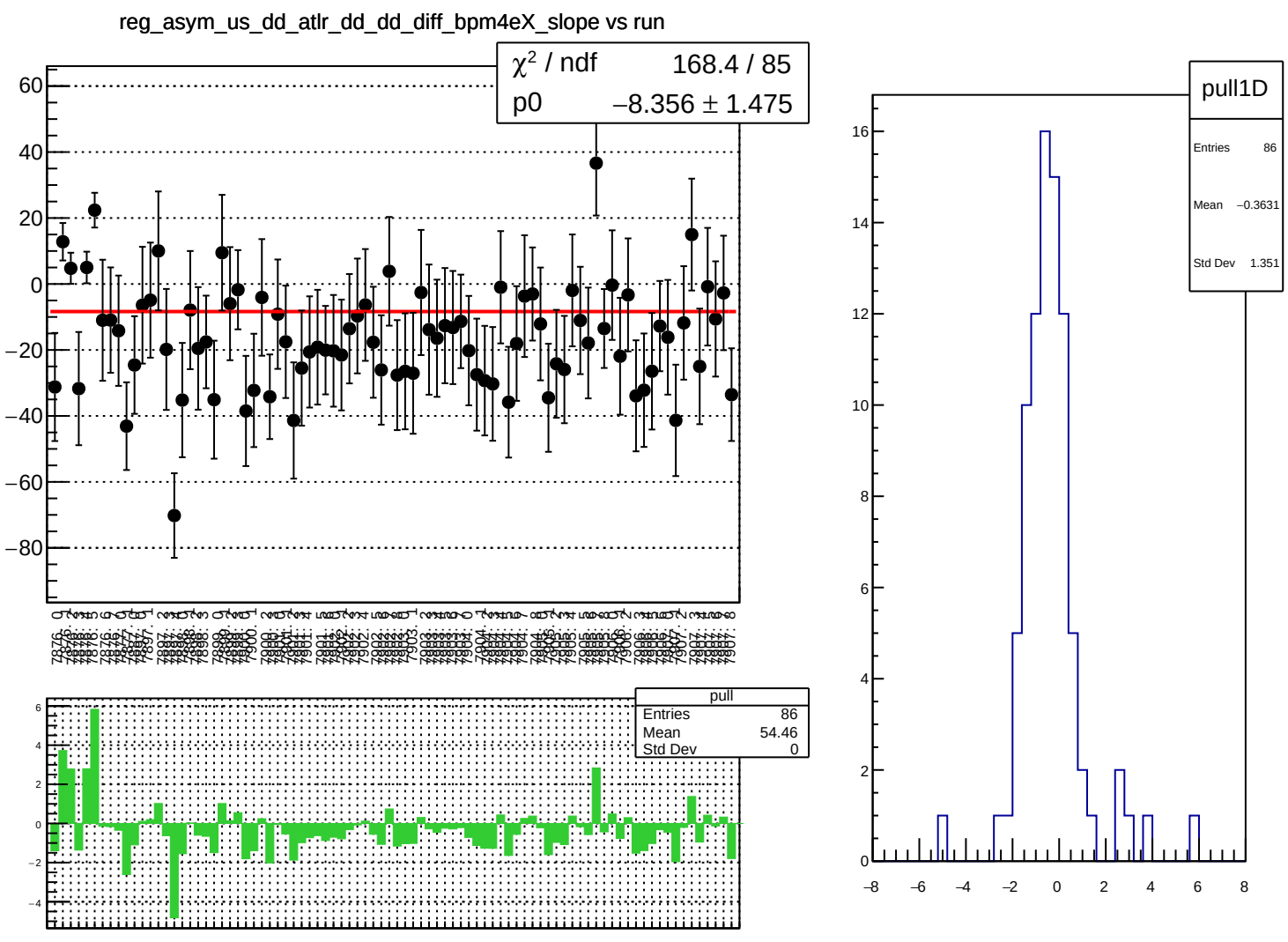

pull1D
Entries 86
Mean 0.03505
Std Dev 0.9145

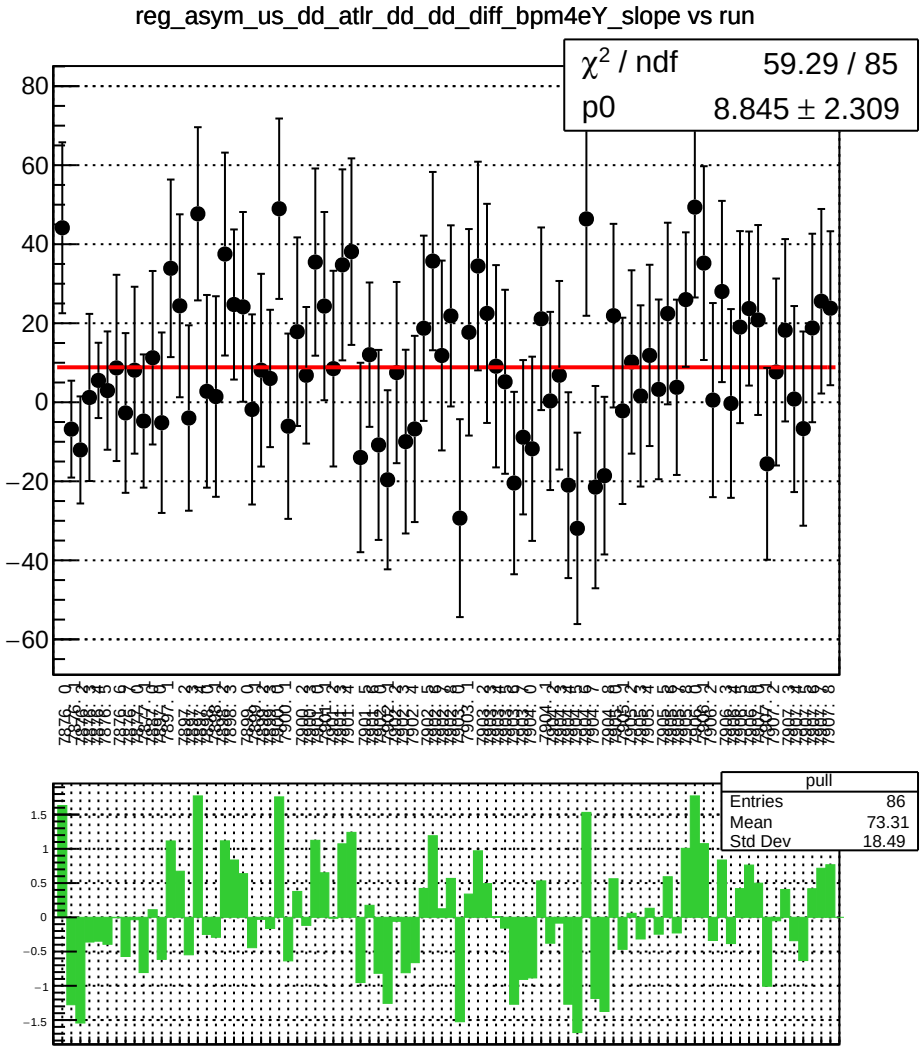

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 137.9 / 85
p0 −33.3 ± 1.813
pull
Entries 86
Mean 49.82
Std Dev 3.904

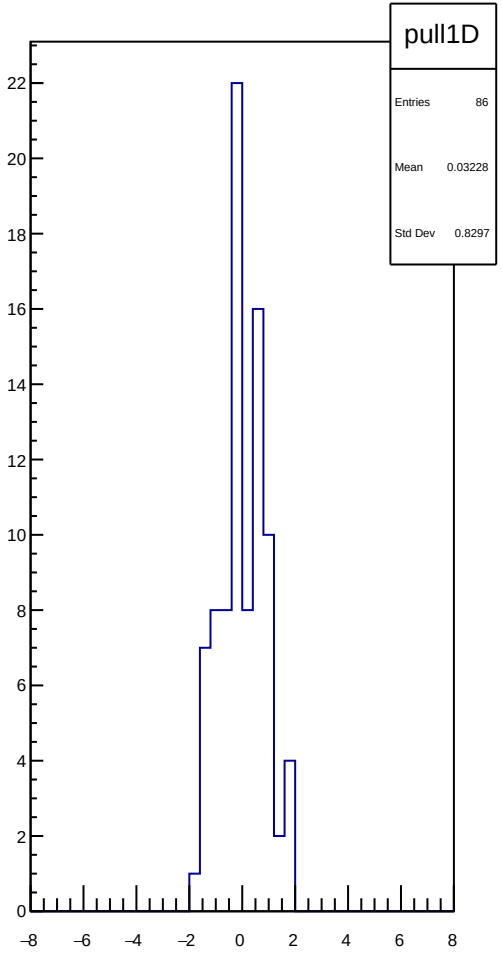

pull1D
Entries 86
Mean 0.2484
Std Dev 1.242

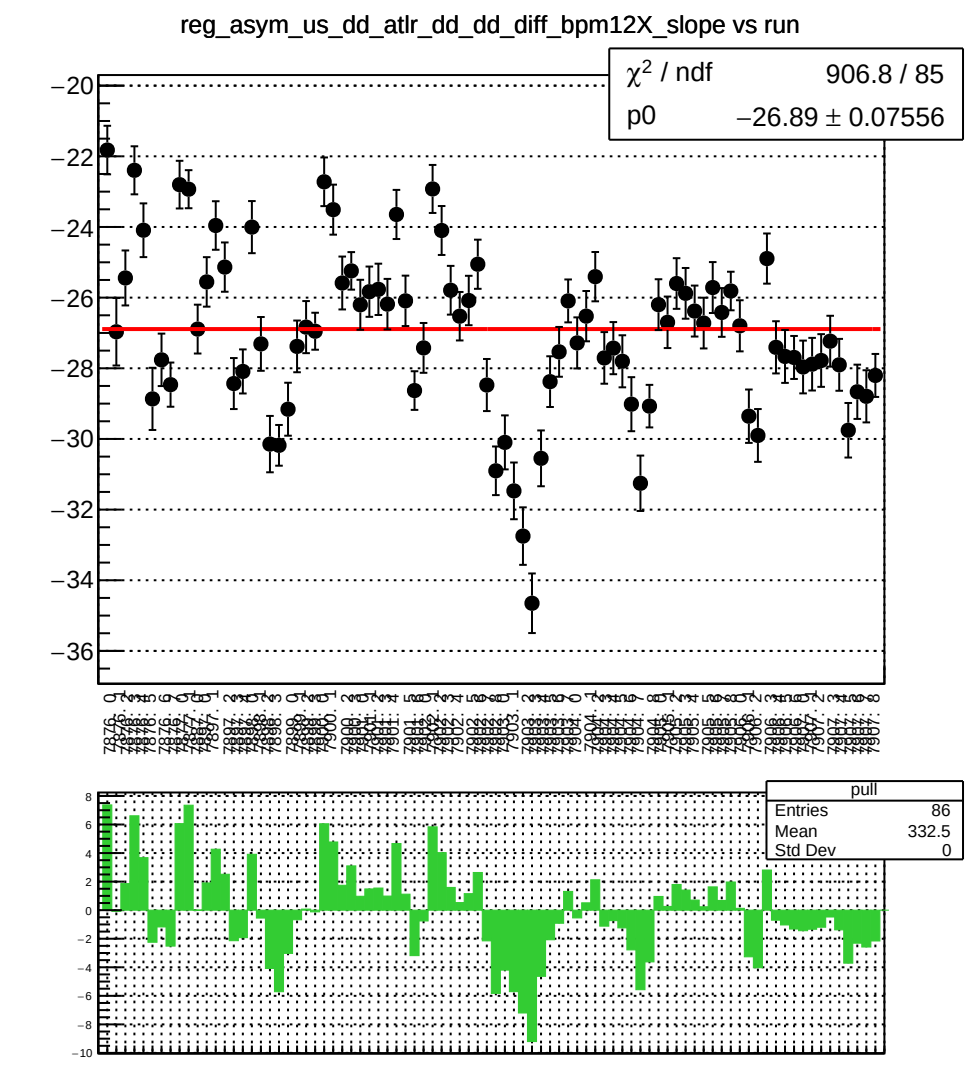

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.11 / 85
p0 −0.8235 ± 1.898
pull
Entries 86
Mean 61.34
Std Dev 24.89

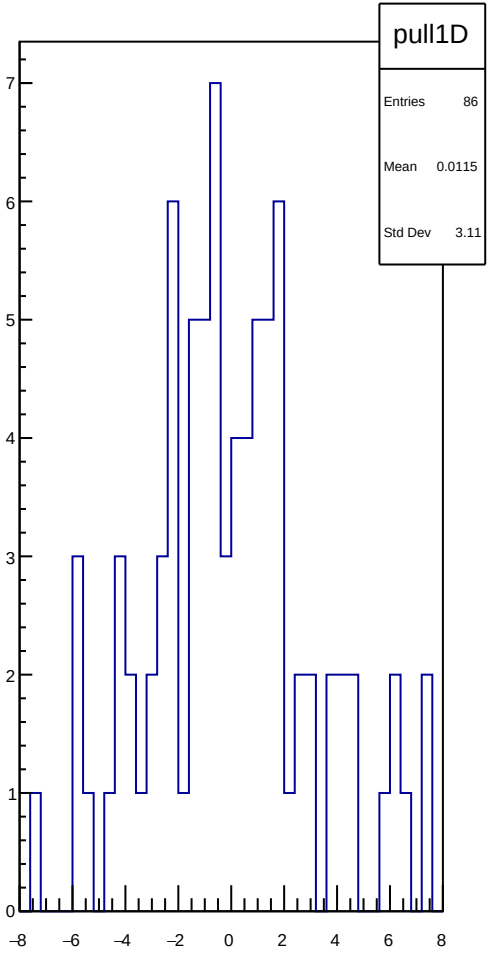

pull1D
Entries 86
Mean −0.06324
Std Dev 0.8266

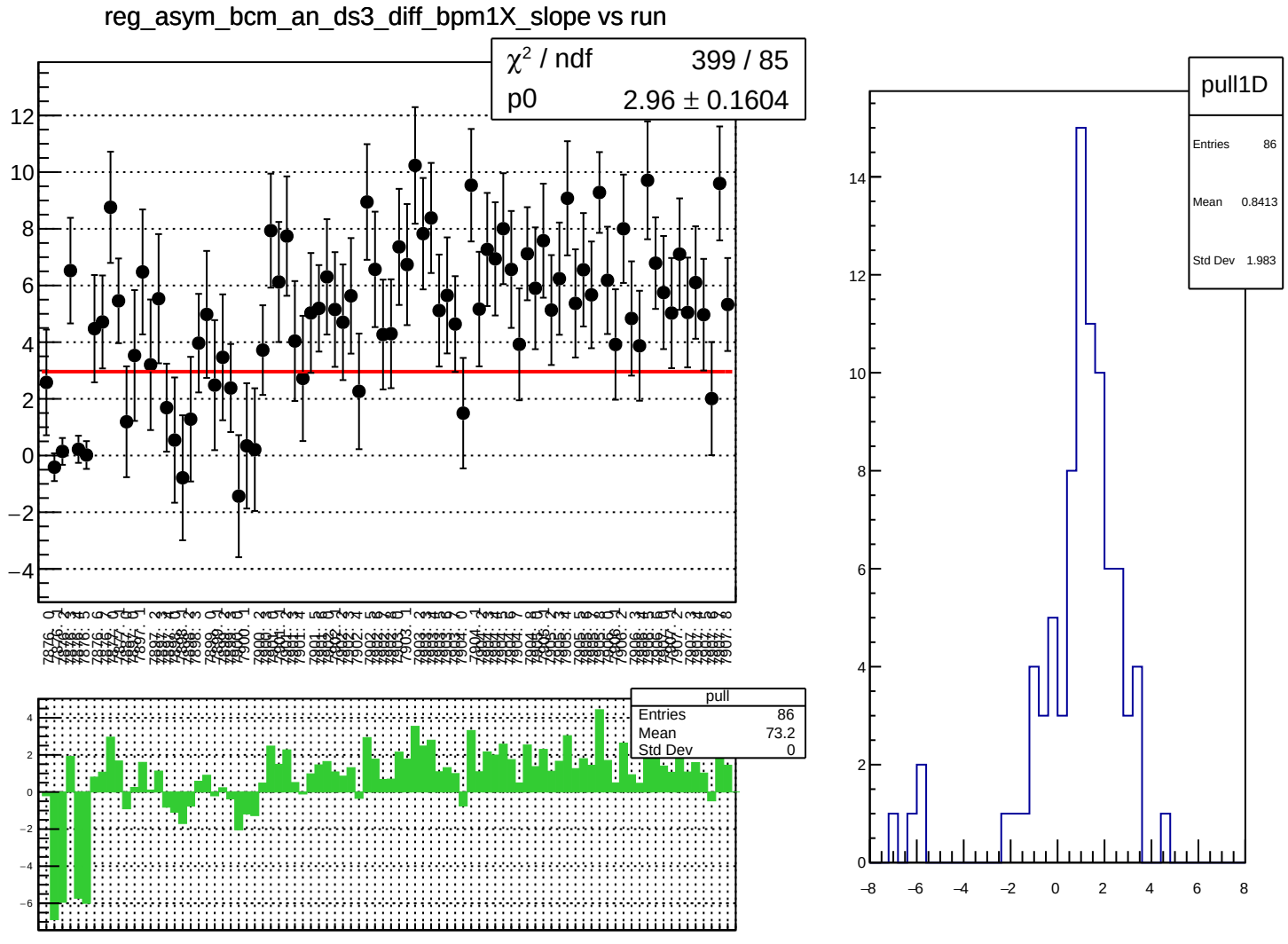

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 168.4 / 85
p0 −8.356 ± 1.475
pull
Entries 86
Mean 54.46
Std Dev 0
pull1D
Entries 86
Mean −0.3631
Std Dev 1.351

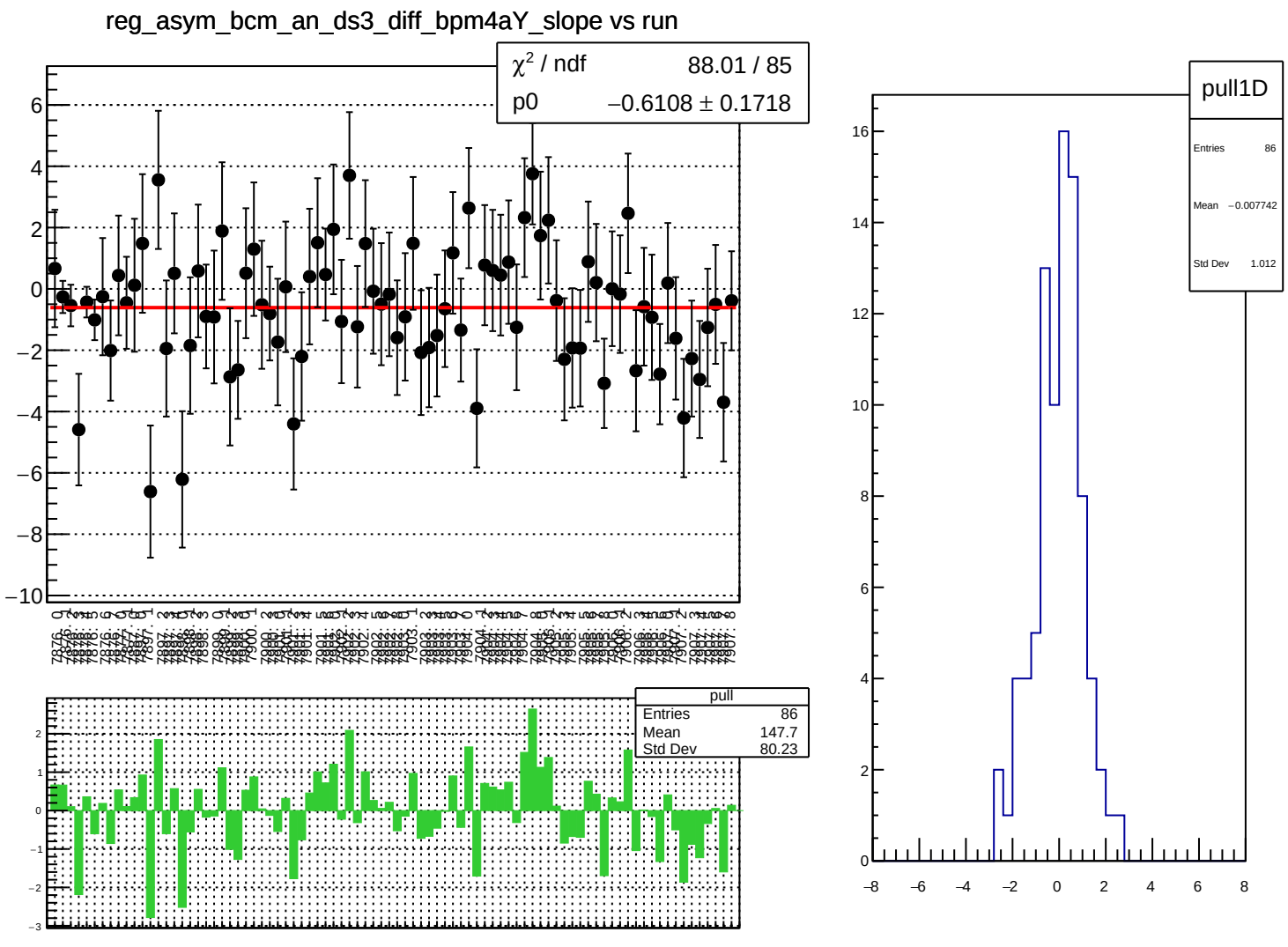

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.29 / 85
p0 8.845 ± 2.309
pull
Entries 86
Mean 73.31
Std Dev 18.49

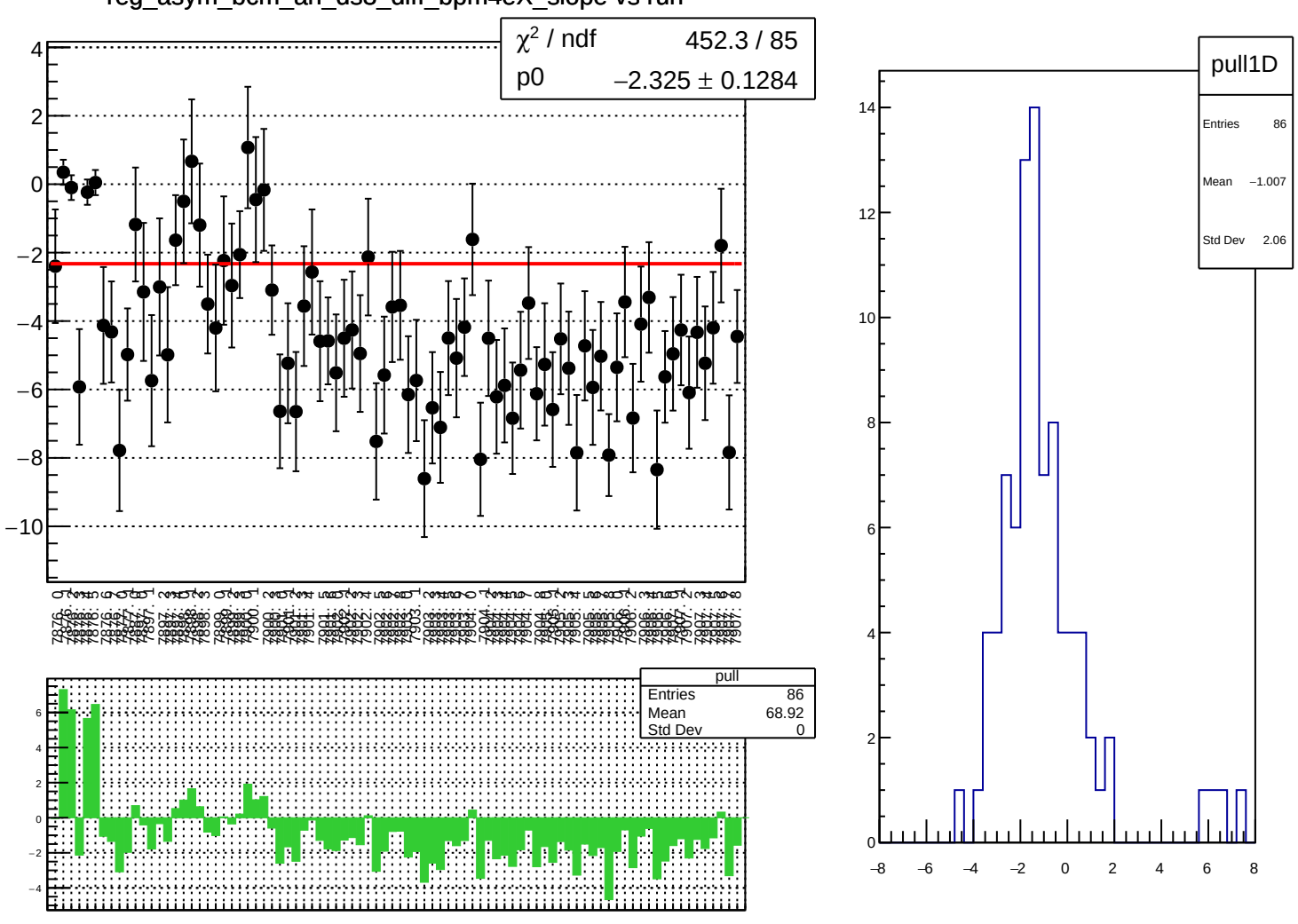

pull1D
Entries 86
Mean 0.03228
Std Dev 0.8297

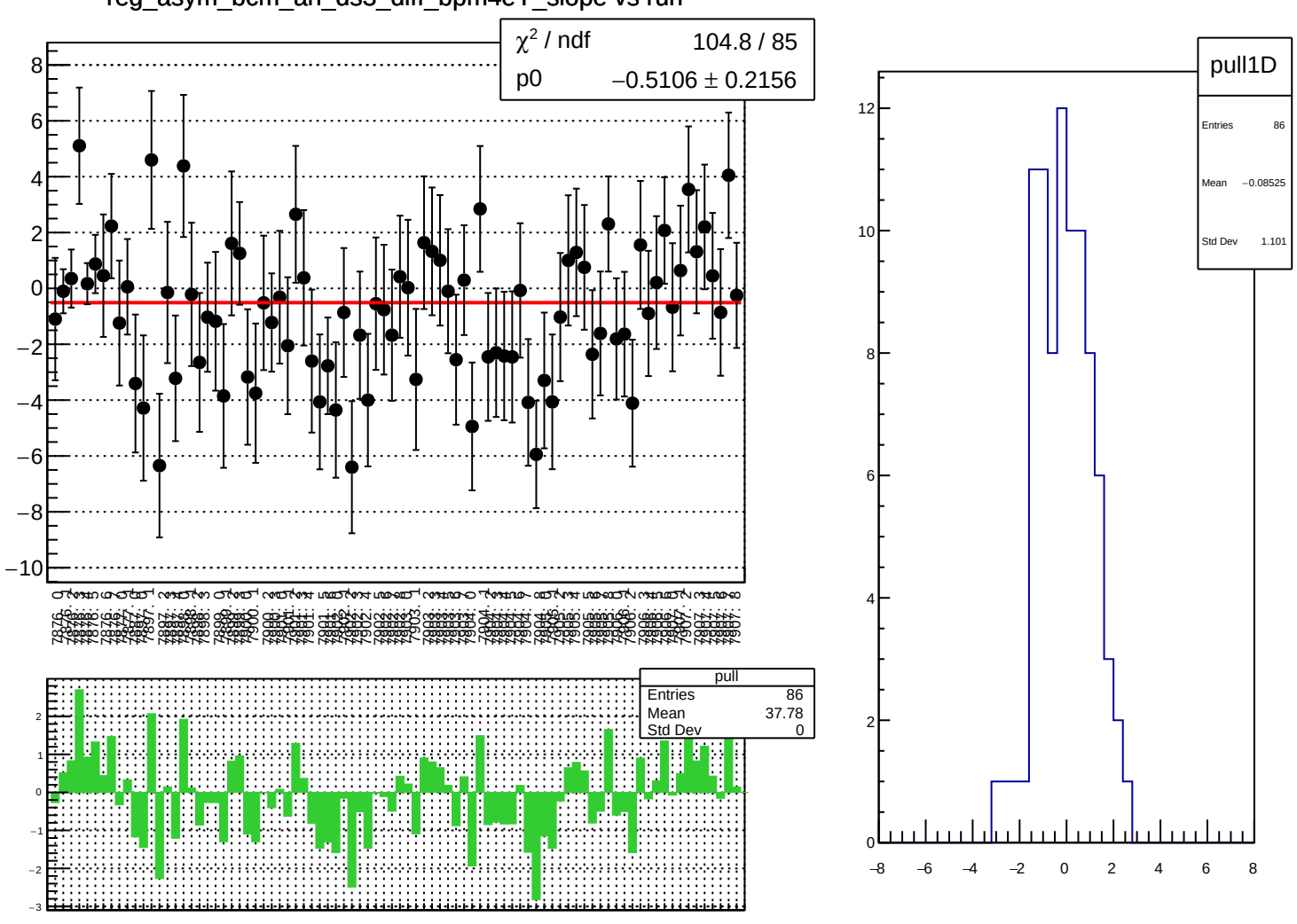

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 906.8 / 85
p0 −26.89 ± 0.07556
pull
Entries 86
Mean 332.5
Std Dev 0

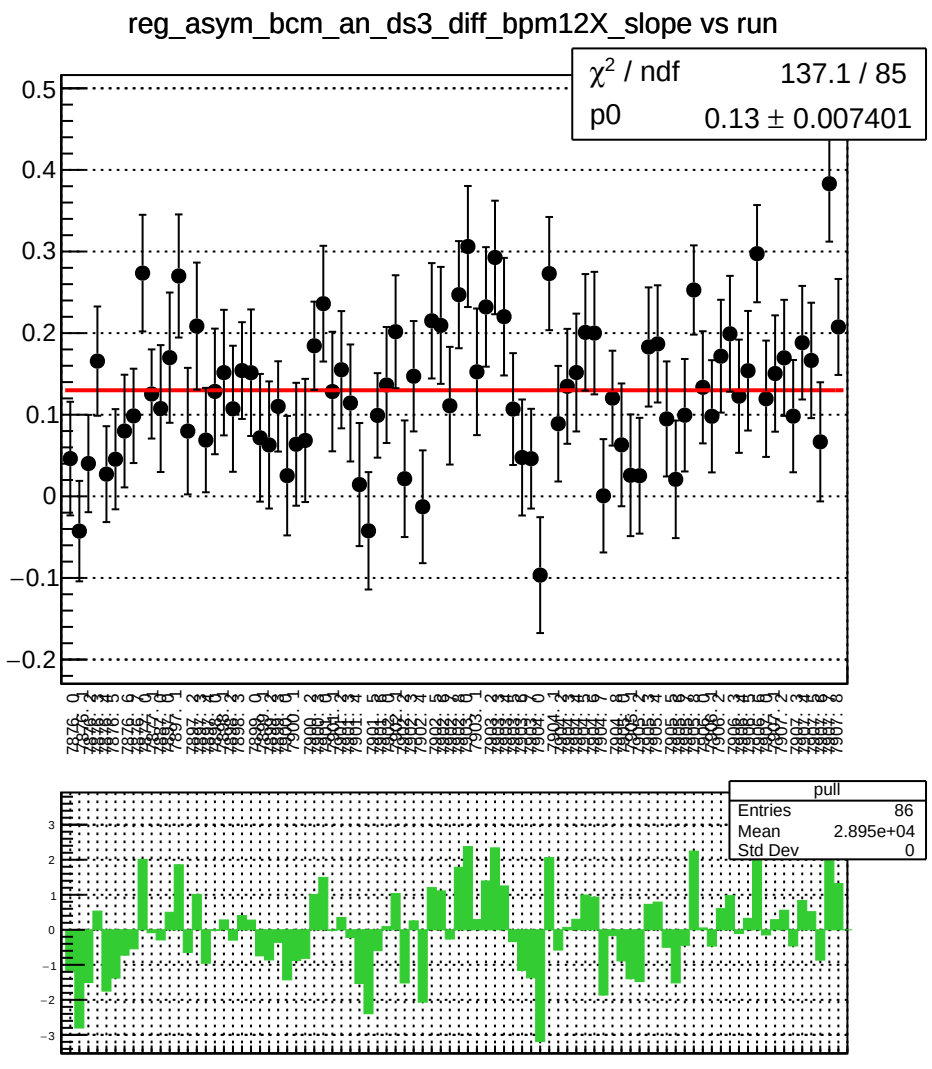

pull1D
Entries 86
Mean 0.0115
Std Dev 3.11

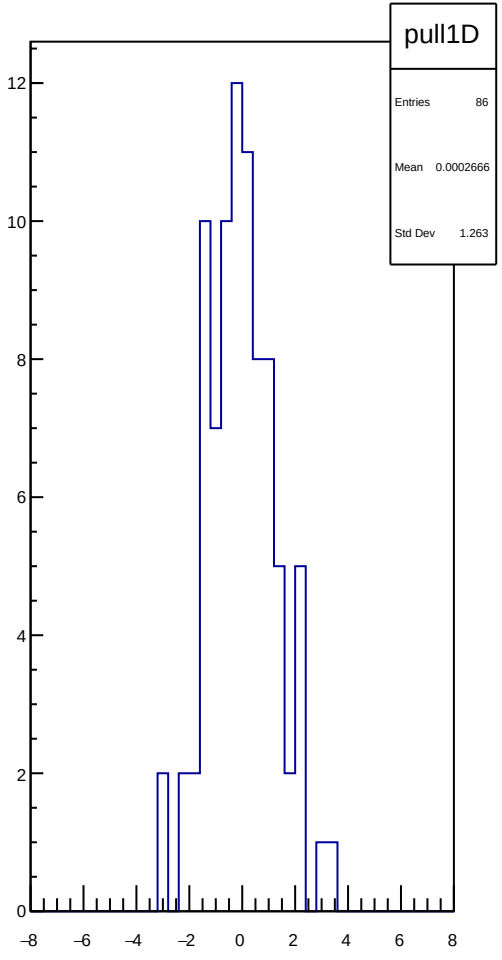

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 399 / 85
p0 2.96 ± 0.1604
pull
Entries 86
Mean 73.2
Std Dev 0
pull1D
Entries 86
Mean 0.8413
Std Dev 1.983

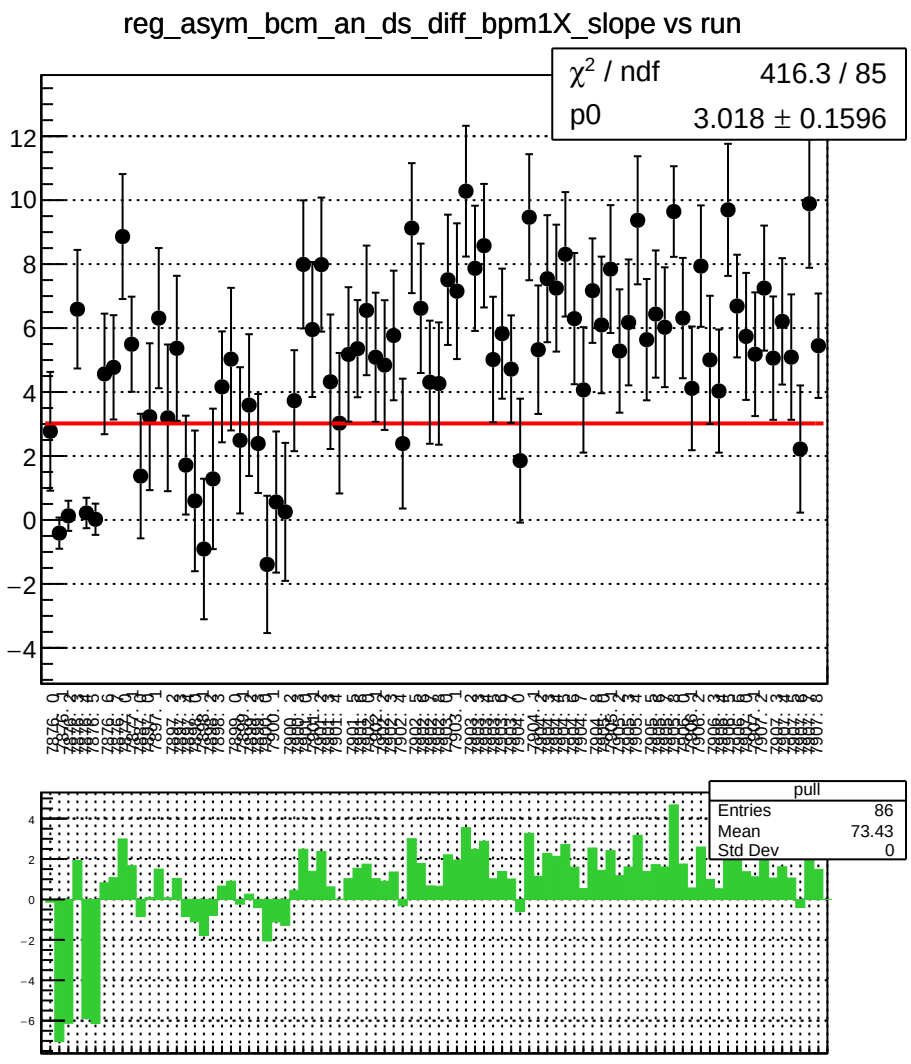

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 88.01 / 85
p0 −0.6108 ± 0.1718
pull
Entries 86
Mean 147.7
Std Dev 80.23
pull1D
Entries 86
Mean −0.007742
Std Dev 1.012

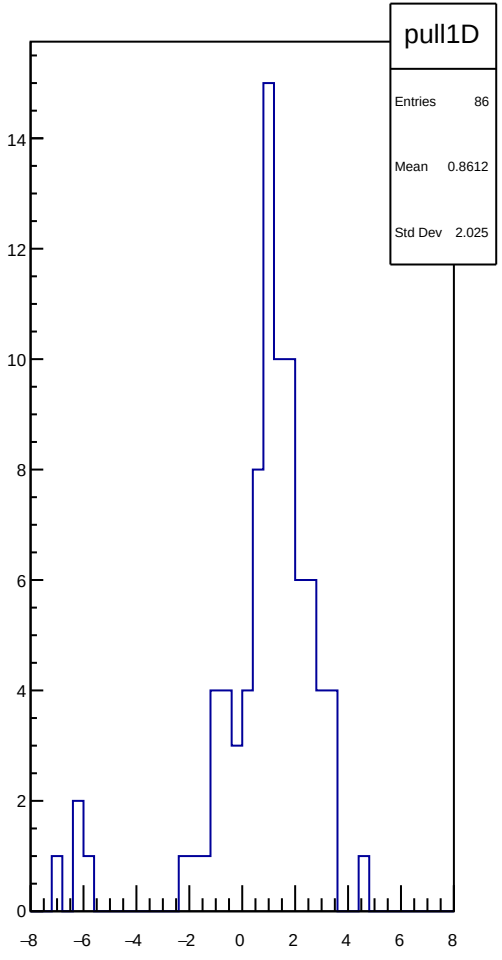

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 452.3 / 85
p0 −2.325 ± 0.1284
pull
Entries 86
Mean 68.92
Std Dev 0
pull1D
Entries 86
Mean −1.007
Std Dev 2.06

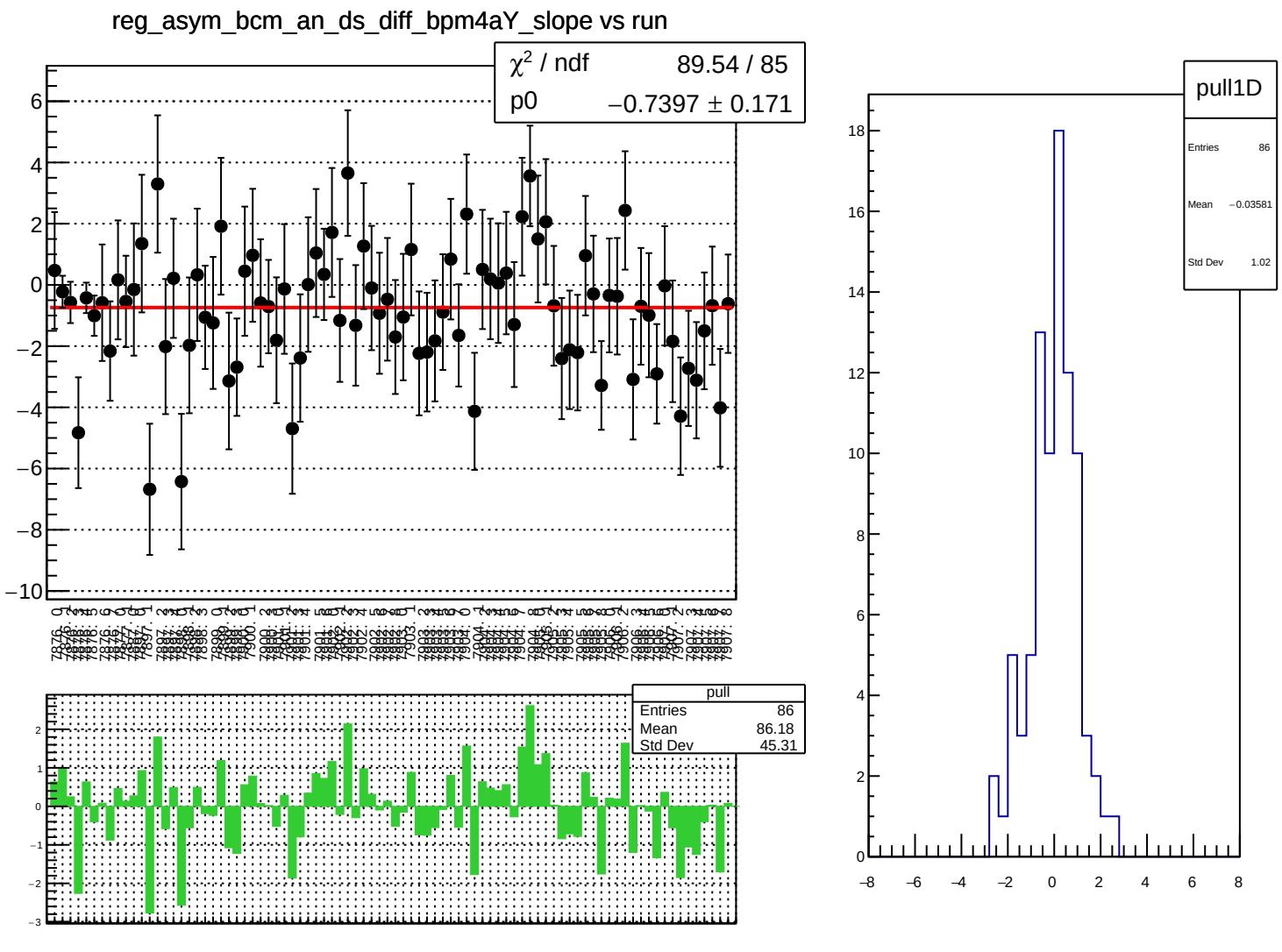

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 104.8 / 85
p0 −0.5106 ± 0.2156
pull
Entries 86
Mean 37.78
Std Dev 0
pull1D
Entries 86
Mean −0.08525
Std Dev 1.101

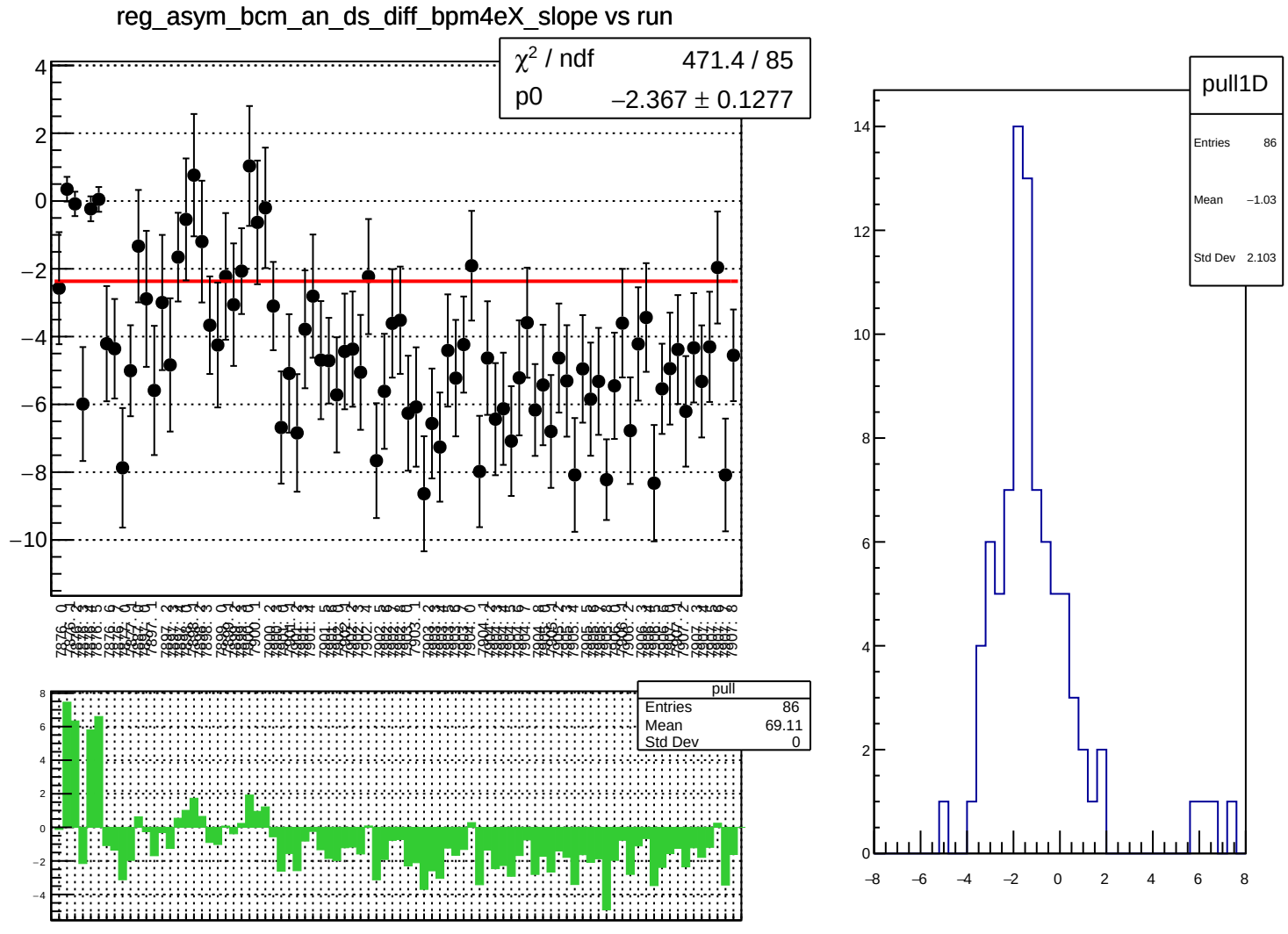

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 137.1 / 85
p0 0.13 ± 0.007401
pull
Entries 86
Mean 2.895e+04
Std Dev 0

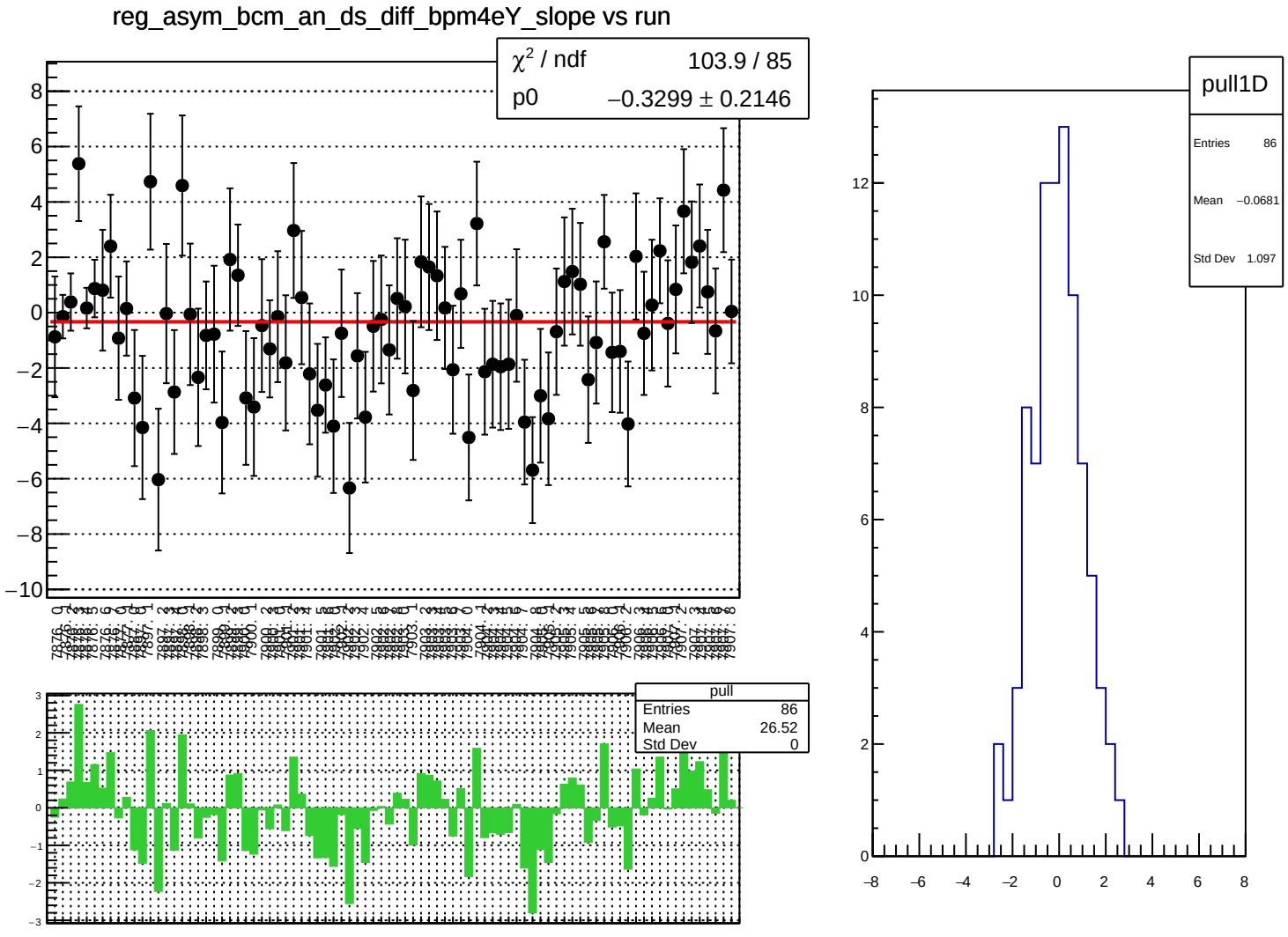

pull1D
Entries 86
Mean 0.0002666
Std Dev 1.263

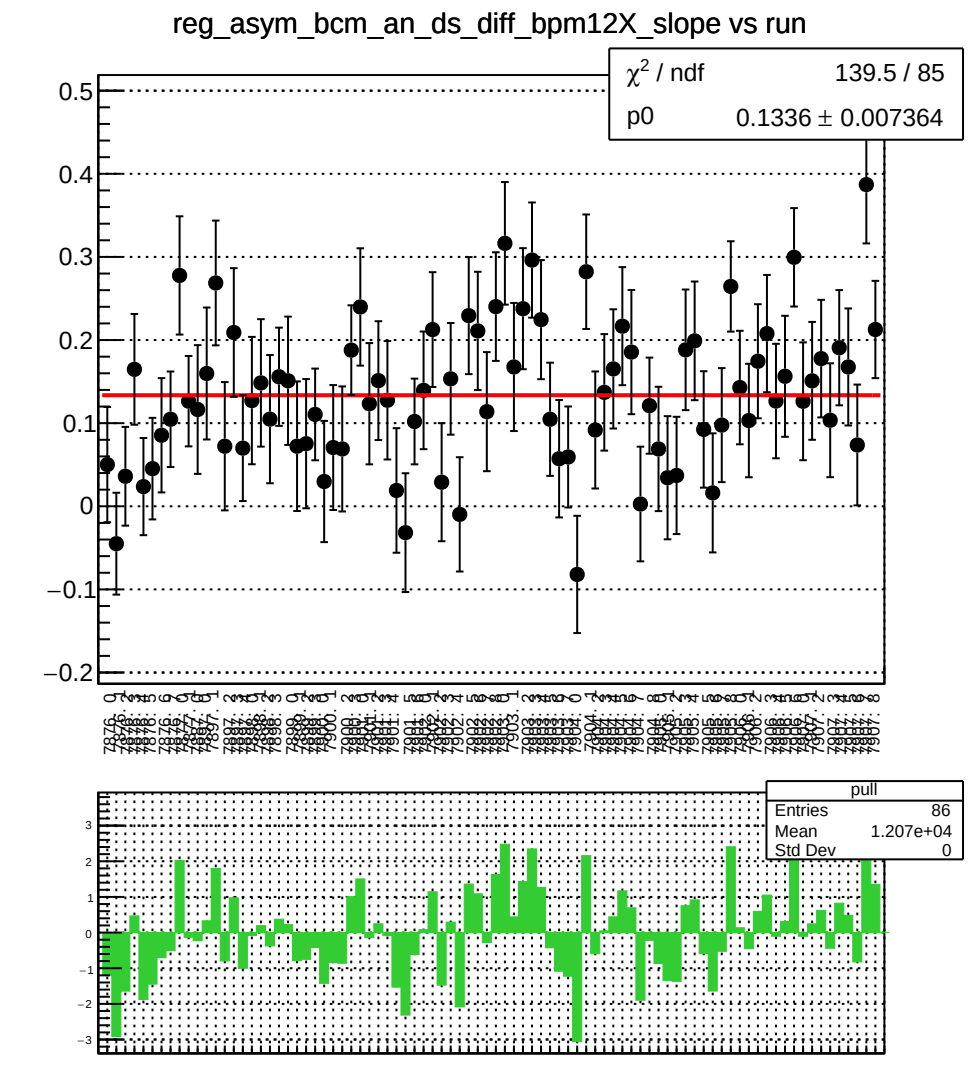

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 416.3 / 85
p0 3.018 ± 0.1596
pull
Entries 86
Mean 73.43
Std Dev 0

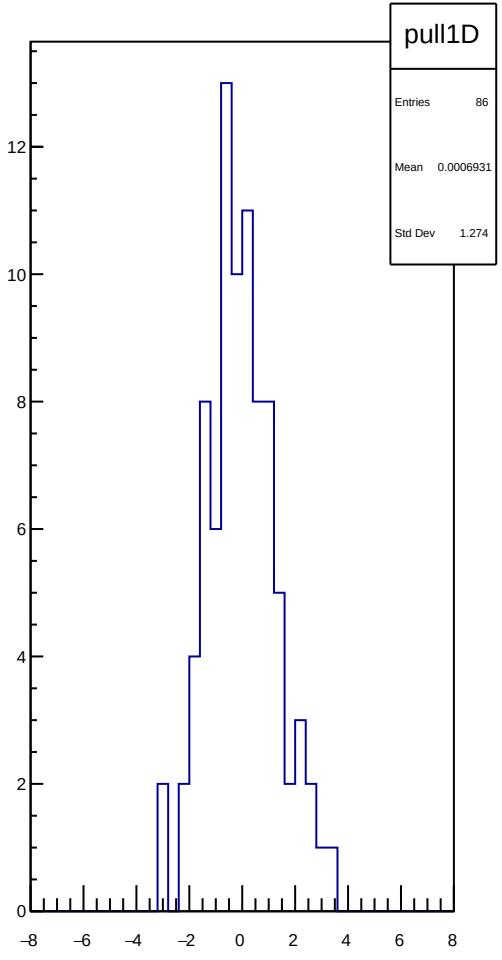

pull1D
Entries 86
Mean 0.8612
Std Dev 2.025

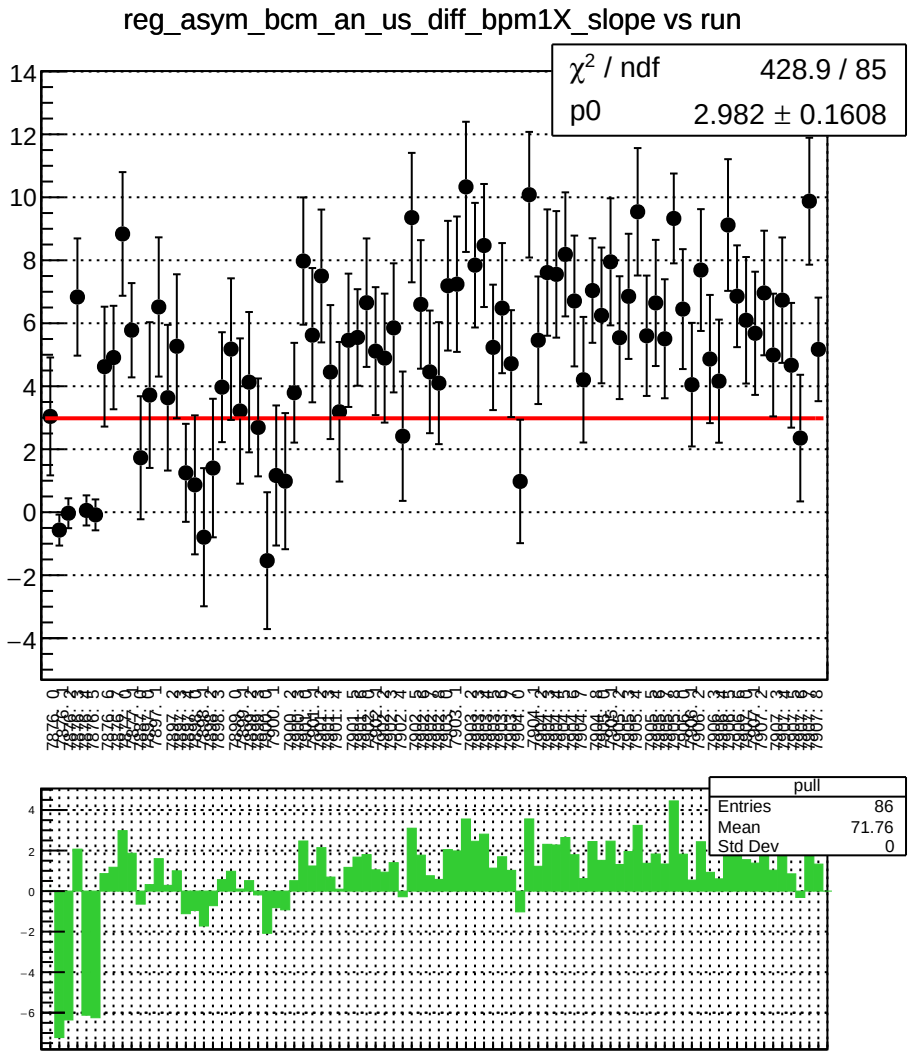

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 89.54 / 85
p0 −0.7397 ± 0.171
pull
Entries 86
Mean 86.18
Std Dev 45.31
pull1D
Entries 86
Mean −0.03581
Std Dev 1.02

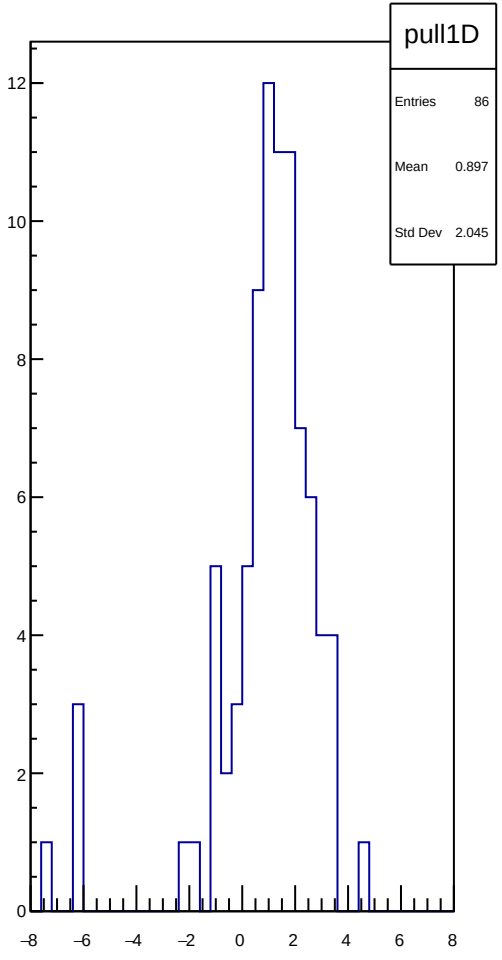

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 471.4 / 85
p0 −2.367 ± 0.1277
pull
Entries 86
Mean 69.11
Std Dev 0
pull1D
Entries 86
Mean −1.03
Std Dev 2.103

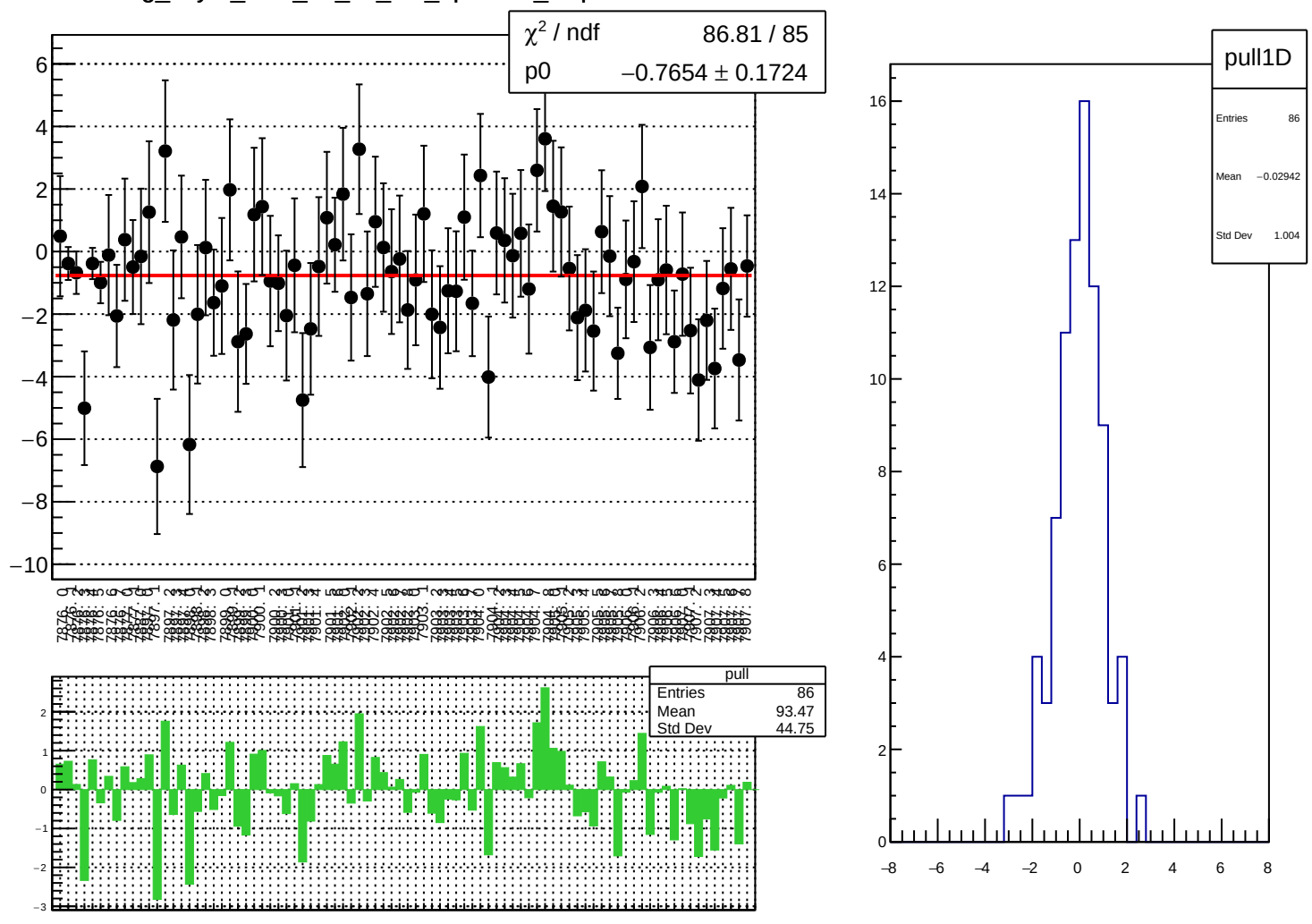

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 103.9 / 85
p0 −0.3299 ± 0.2146
pull
Entries 86
Mean 26.52
Std Dev 0
pull1D
Entries 86
Mean −0.0681
Std Dev 1.097

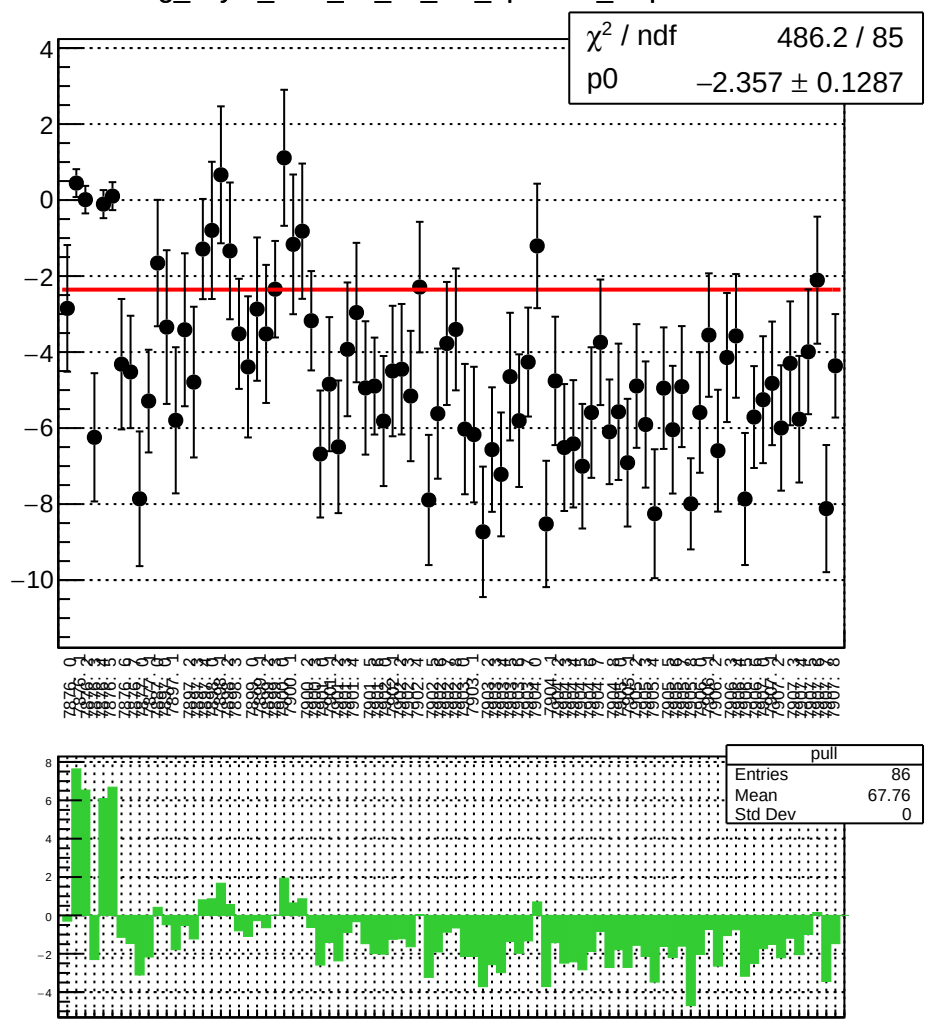

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 139.5 / 85
p0 0.1336 ± 0.007364
pull
Entries 86
Mean 1.207e+04
Std Dev 0

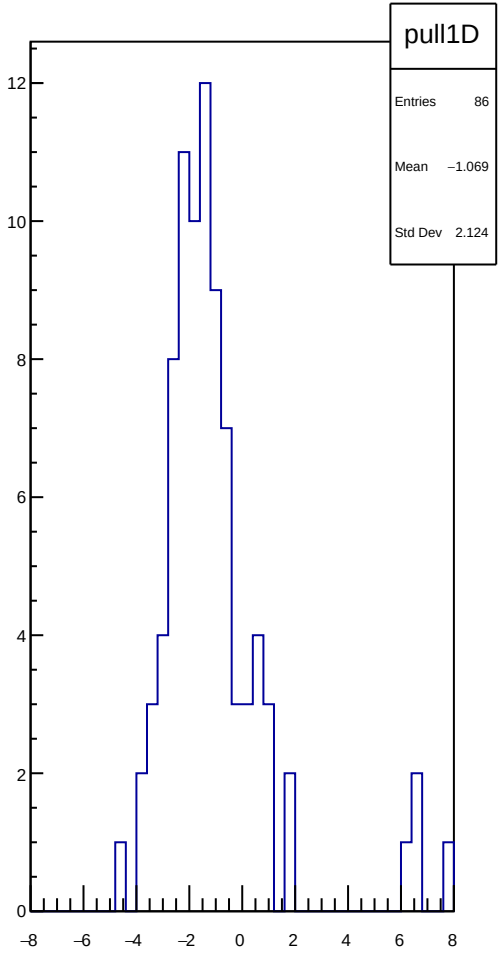

pull1D
Entries 86
Mean 0.0006931
Std Dev 1.274

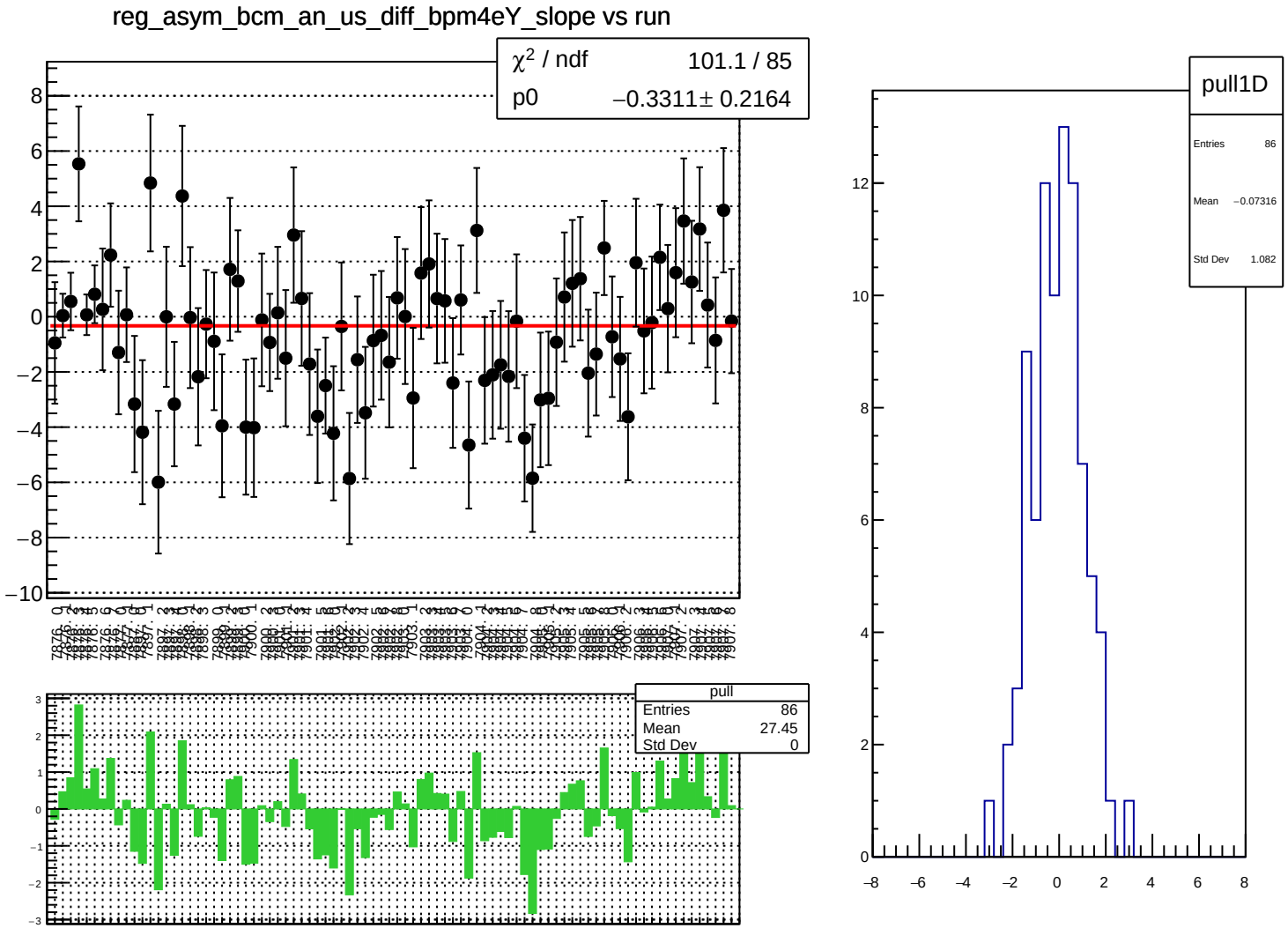

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 428.9 / 85
p0 2.982 ± 0.1608
pull
Entries 86
Mean 71.76
Std Dev 0

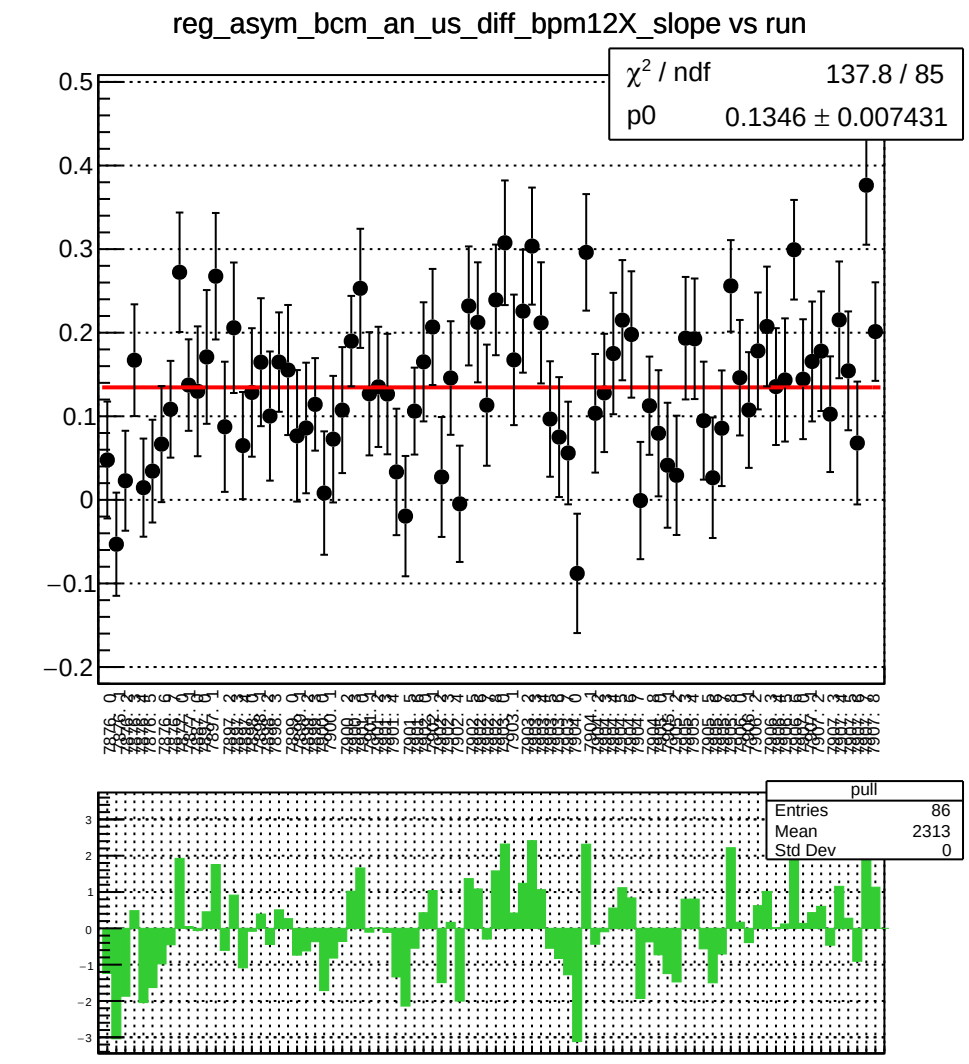

pull1D
Entries 86
Mean 0.897
Std Dev 2.045

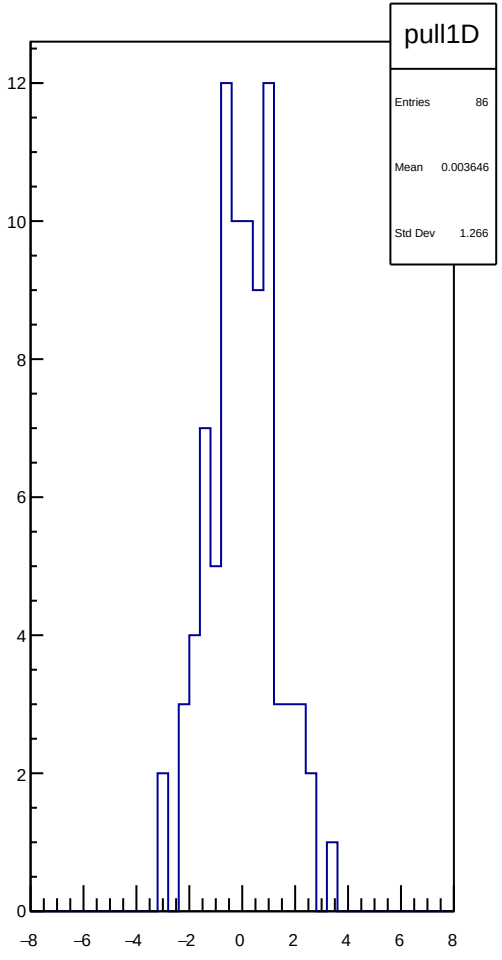

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 86.81 / 85
p0 −0.7654 ± 0.1724
pull
Entries 86
Mean 93.47
Std Dev 44.75
pull1D
Entries 86
Mean −0.02942
Std Dev 1.004

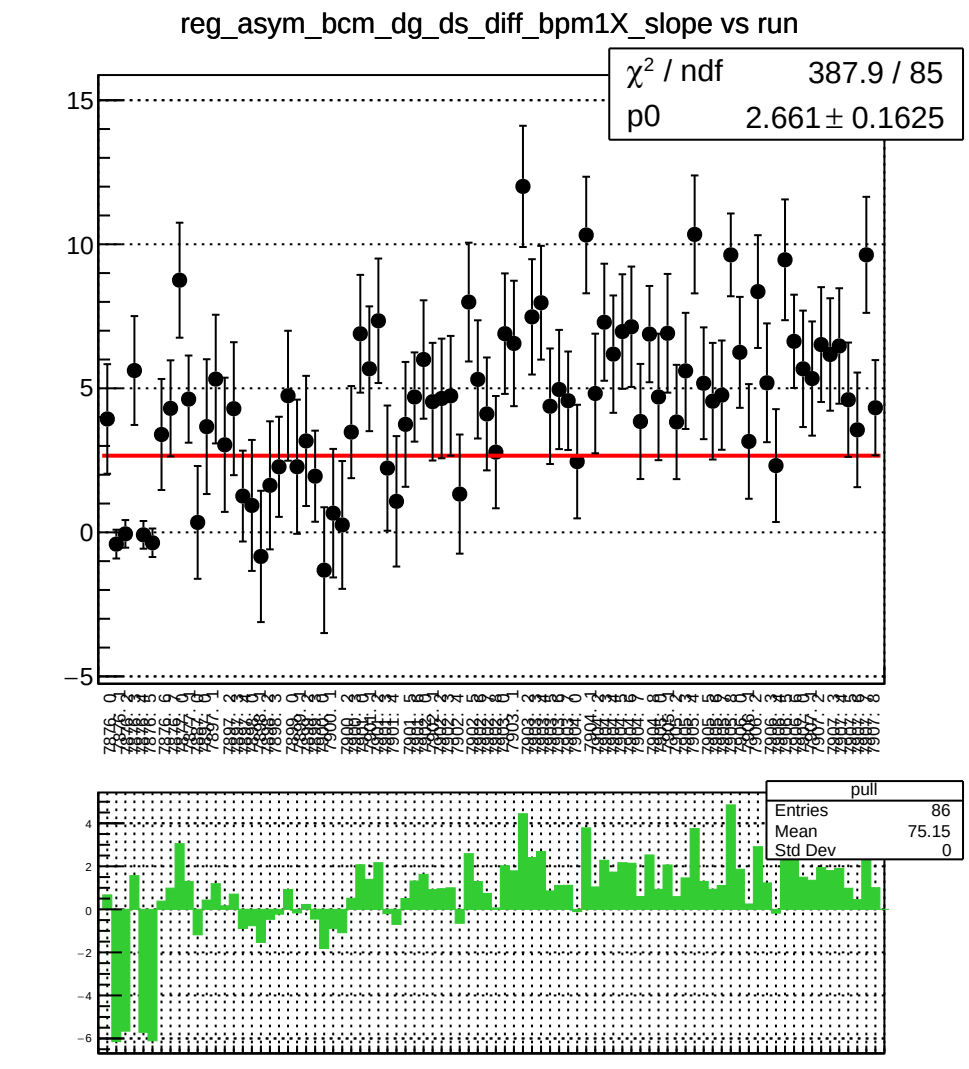

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 486.2 / 85
p0 −2.357 ± 0.1287
pull
Entries 86
Mean 67.76
Std Dev 0

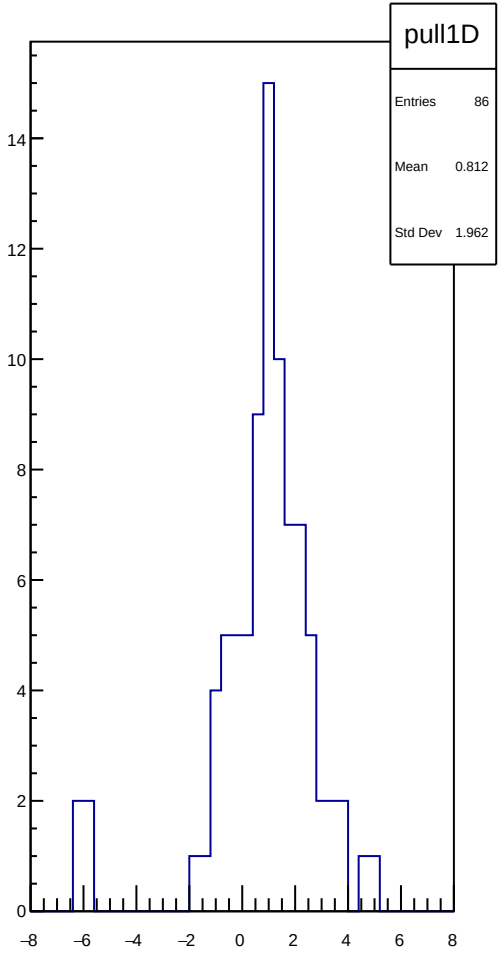

pull1D
Entries 86
Mean −1.069
Std Dev 2.124

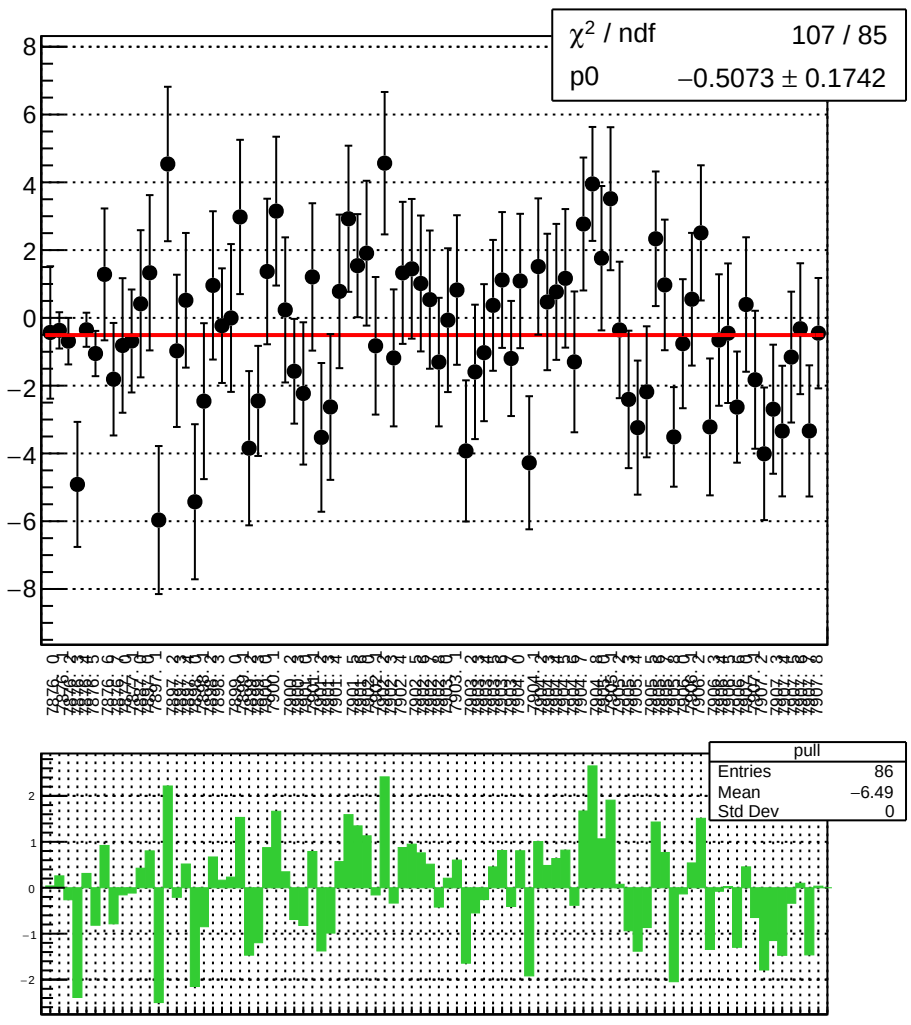

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 101.1 / 85
p0 −0.3311± 0.2164
pull
Entries 86
Mean 27.45
Std Dev 0
pull1D
Entries 86
Mean −0.07316
Std Dev 1.082

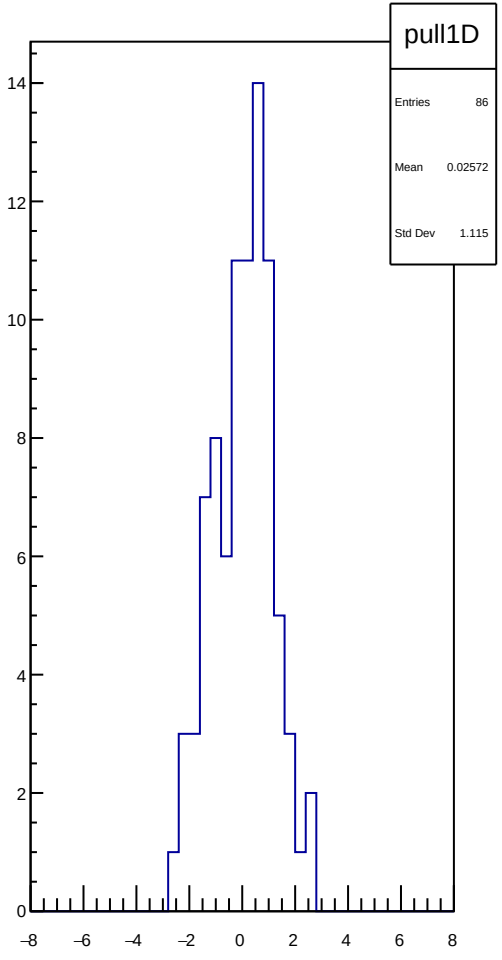

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 137.8 / 85
p0 0.1346 ± 0.007431
pull
Entries 86
Mean 2313
Std Dev 0

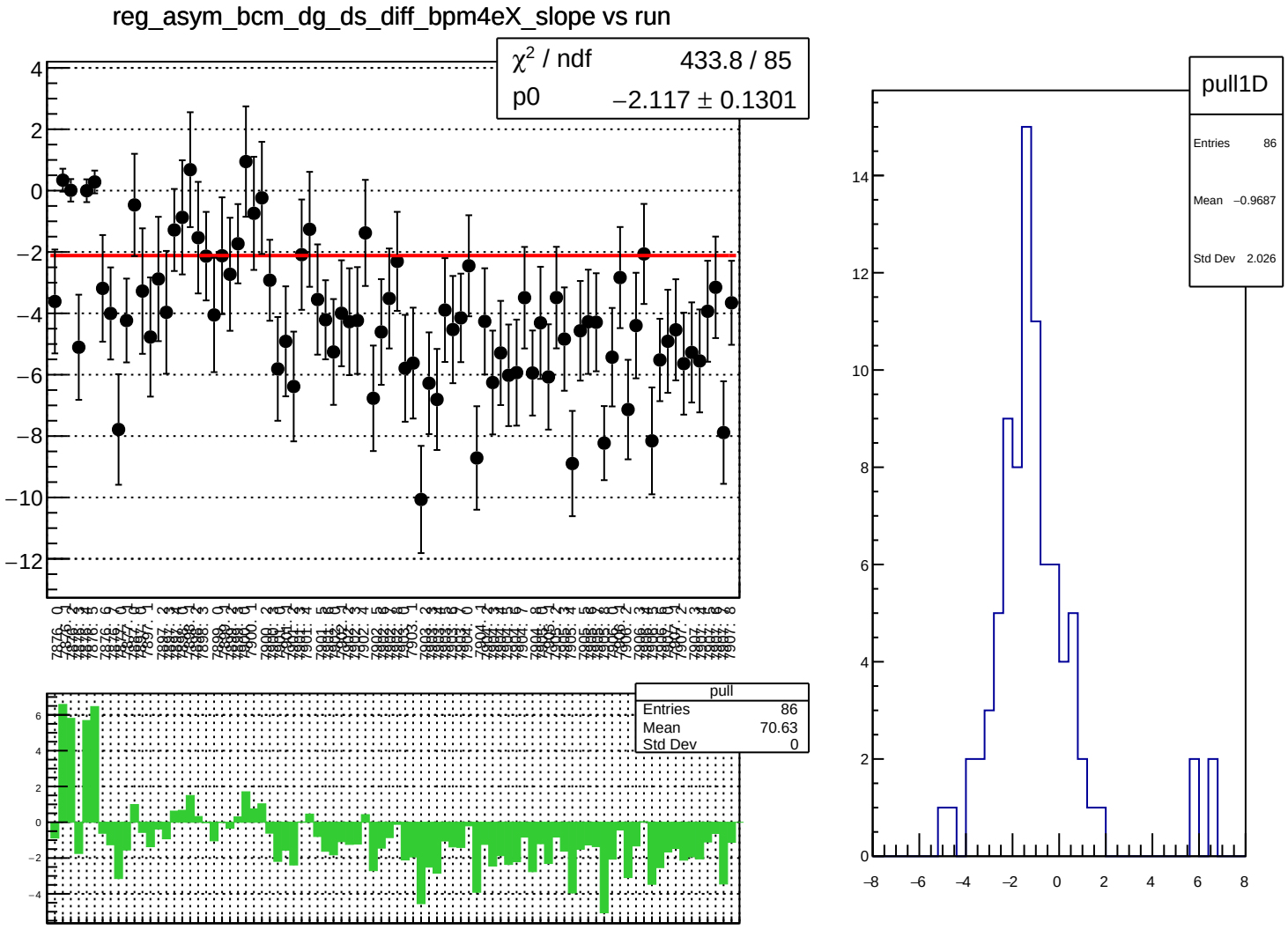

pull1D
Entries 86
Mean 0.003646
Std Dev 1.266

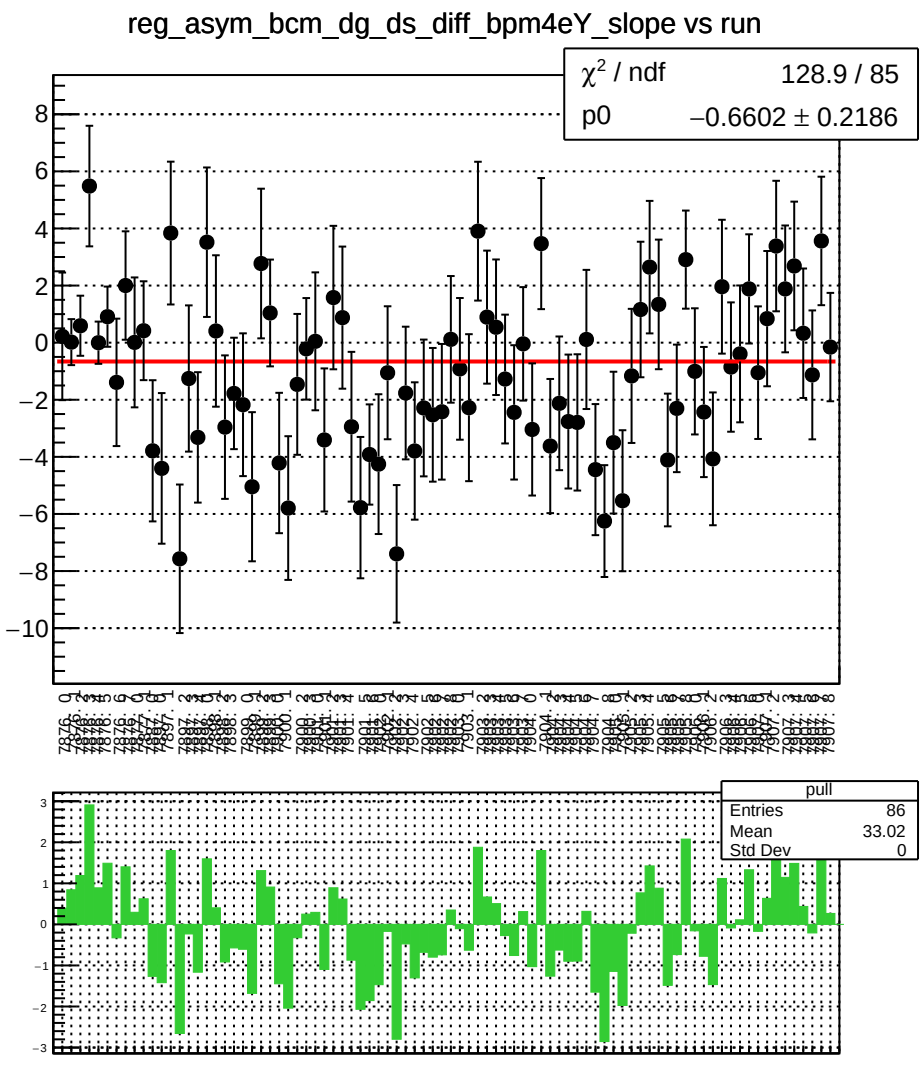

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 387.9 / 85
p0 2.661 ± 0.1625
pull
Entries 86
Mean 75.15
Std Dev 0

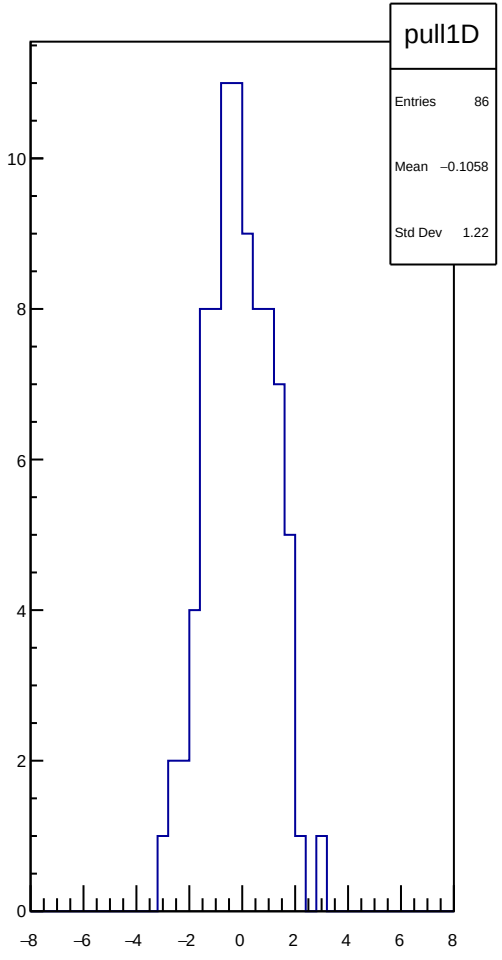

pull1D
Entries 86
Mean 0.812
Std Dev 1.962

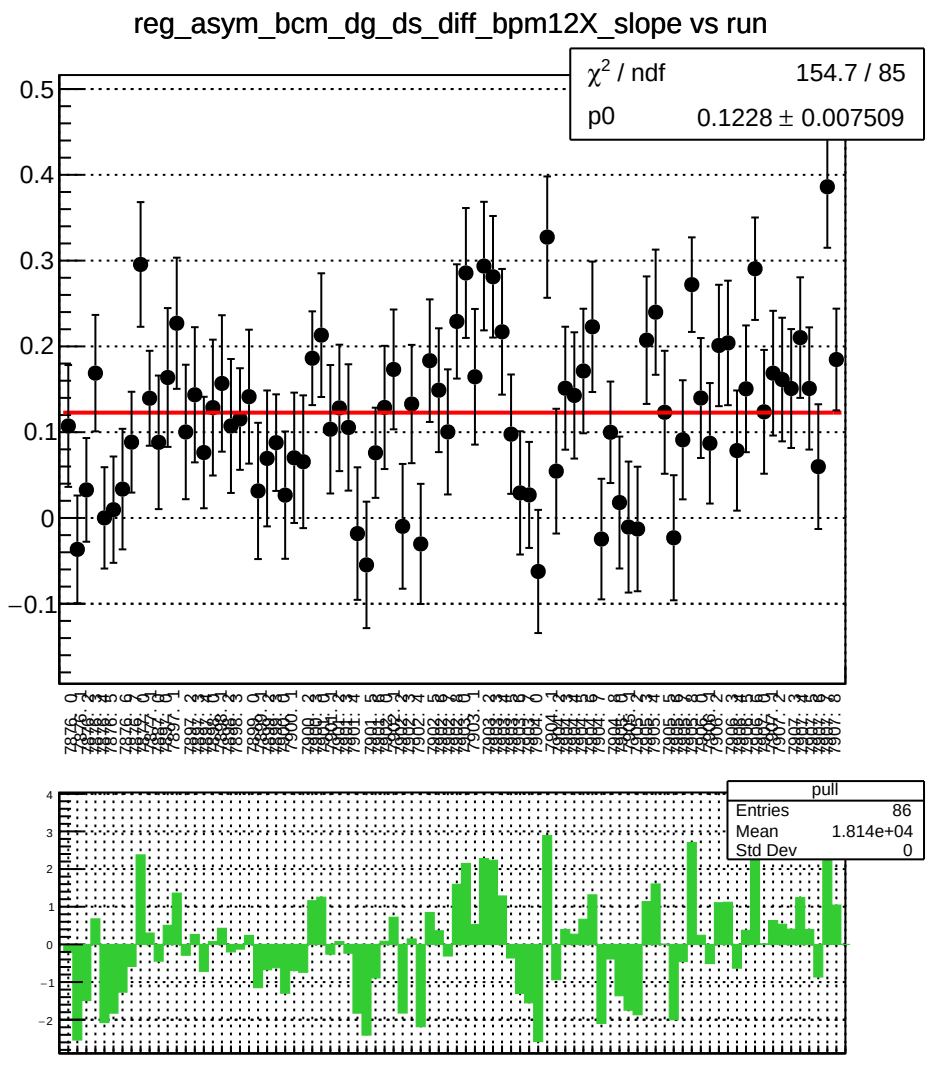

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 107 / 85
p0 −0.5073 ± 0.1742
pull
Entries 86
Mean −6.49
Std Dev 0

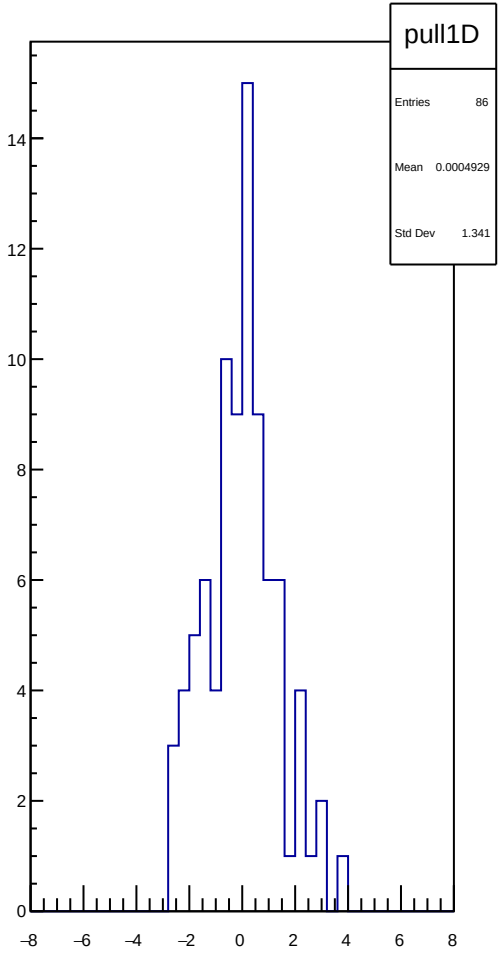

pull1D
Entries 86
Mean 0.02572
Std Dev 1.115

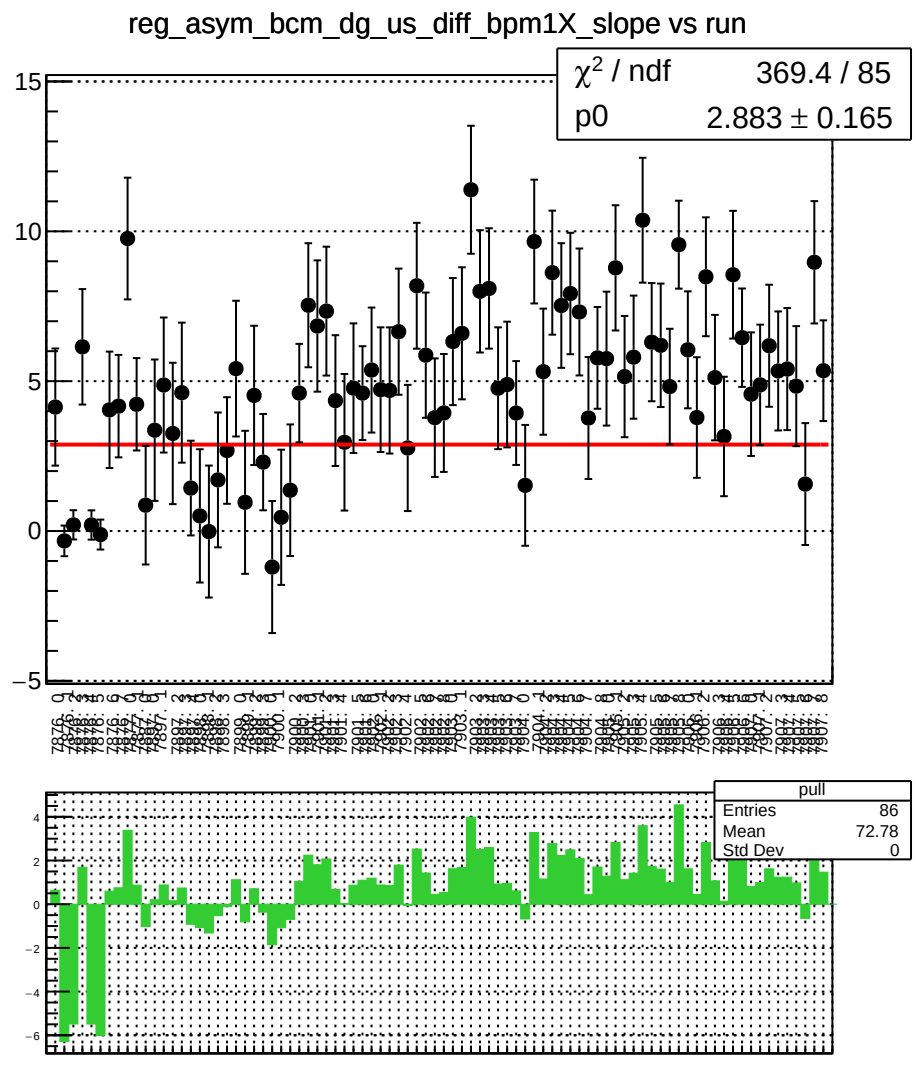

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 433.8 / 85
p0 −2.117 ± 0.1301
pull
Entries 86
Mean 70.63
Std Dev 0
pull1D
Entries 86
Mean −0.9687
Std Dev 2.026

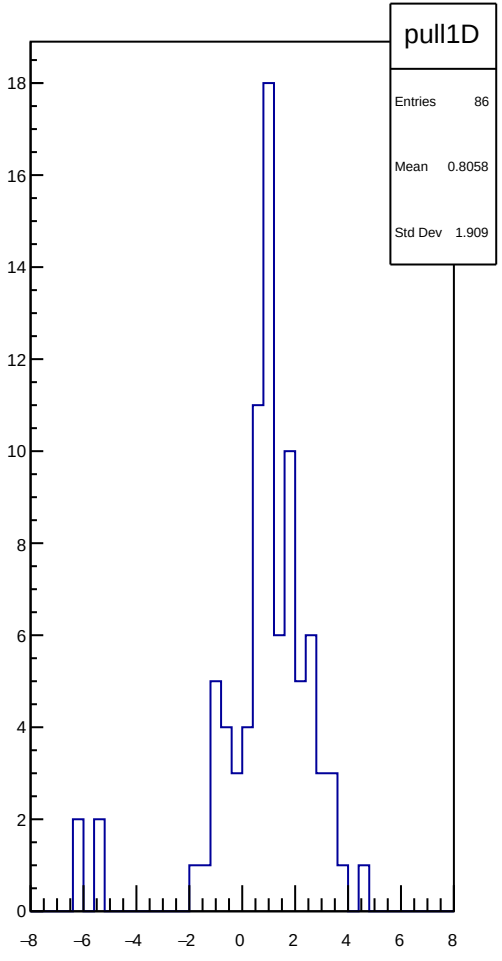

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 128.9 / 85
p0 −0.6602 ± 0.2186
pull
Entries 86
Mean 33.02
Std Dev 0

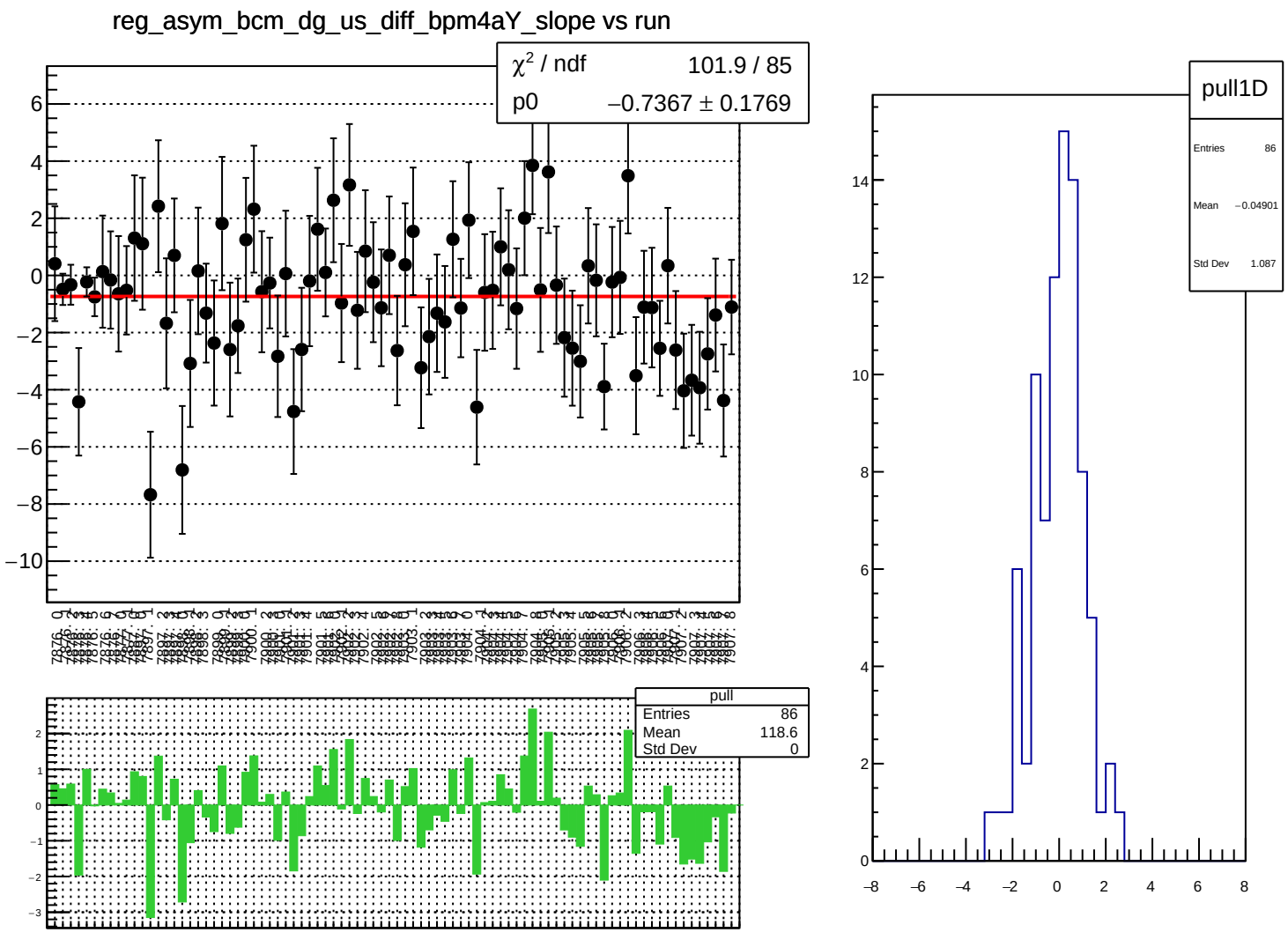

pull1D
Entries 86
Mean −0.1058
Std Dev 1.22

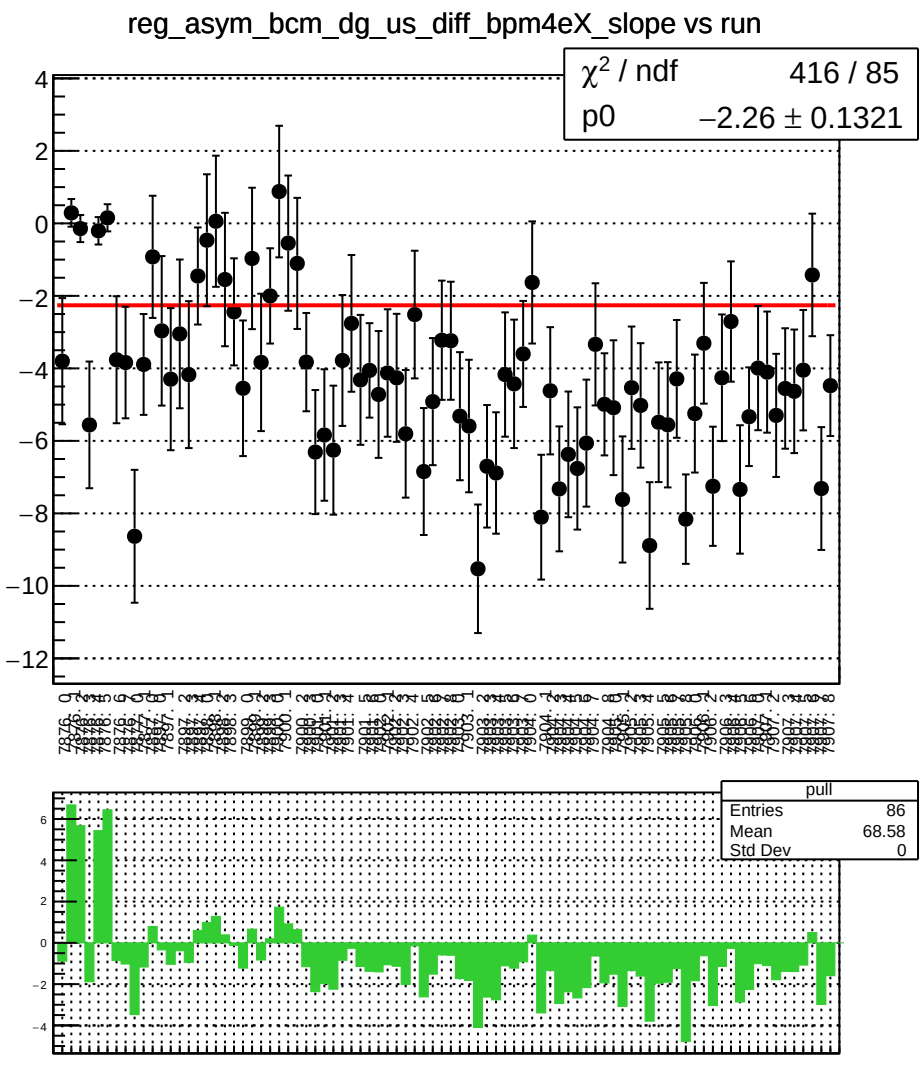

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 154.7 / 85
p0 0.1228 ± 0.007509
pull
Entries 86
Mean 1.814e+04
Std Dev 0

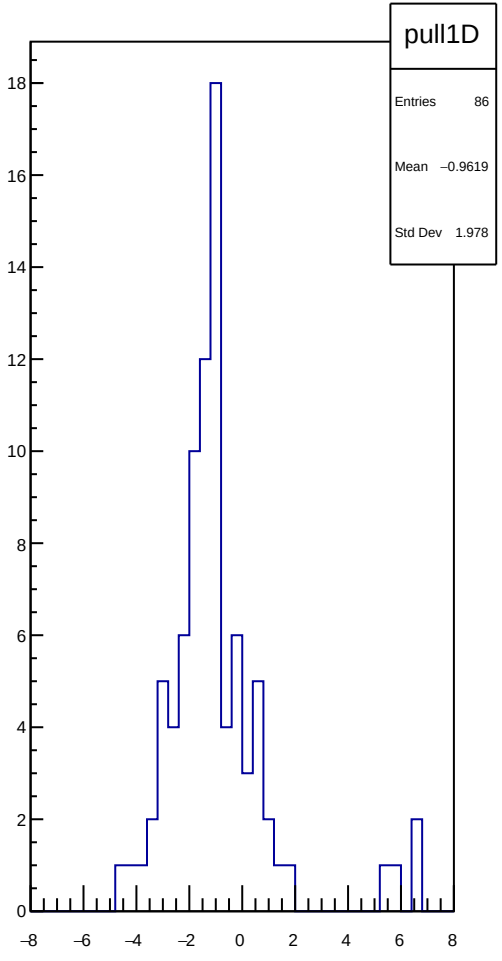

pull1D
Entries 86
Mean 0.0004929
Std Dev 1.341

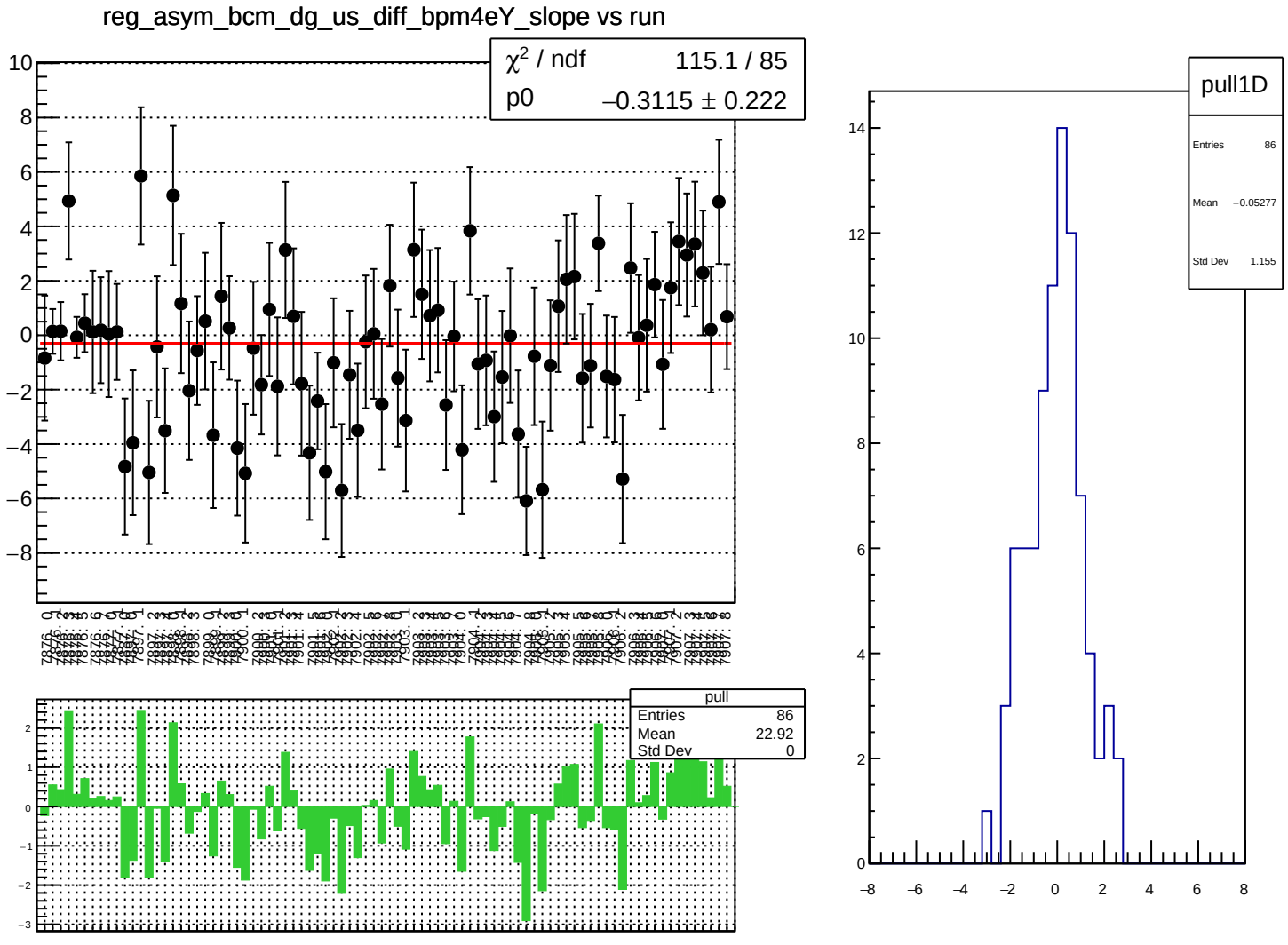

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 369.4 / 85
p0 2.883 ± 0.165
pull
Entries 86
Mean 72.78
Std Dev 0

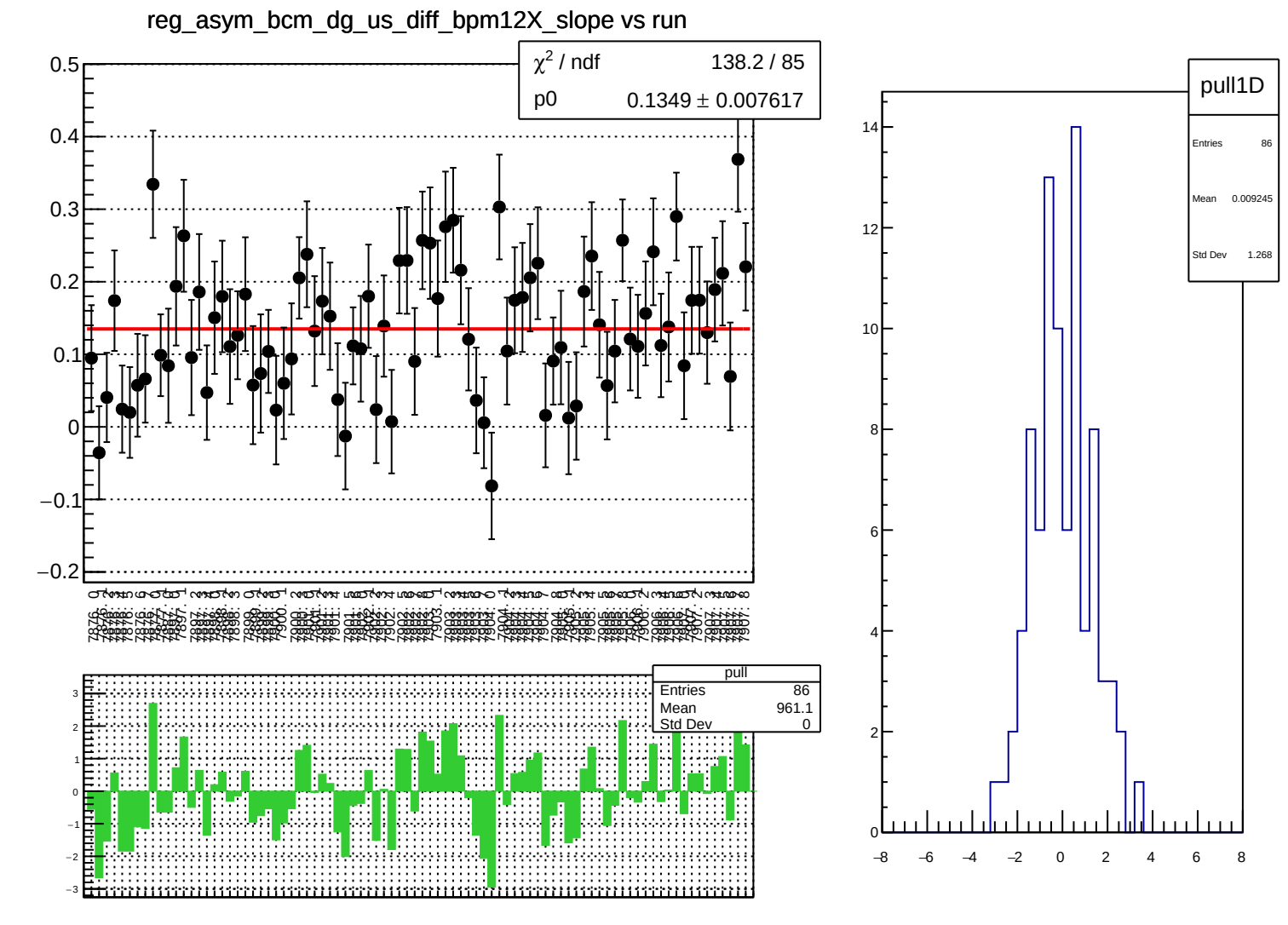

pull1D
Entries 86
Mean 0.8058
Std Dev 1.909

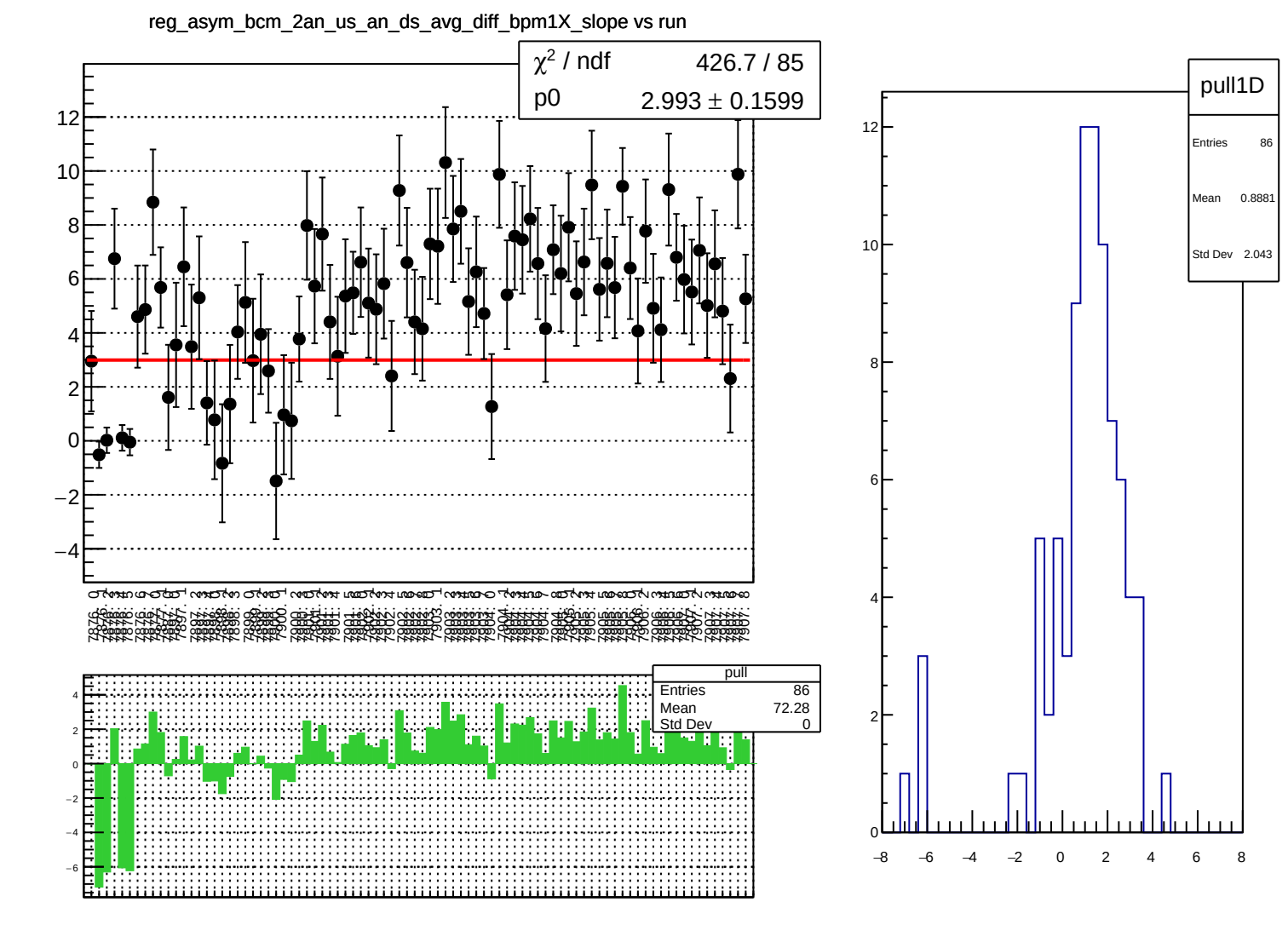

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 101.9 / 85
p0 −0.7367 ± 0.1769
pull
Entries 86
Mean 118.6
Std Dev 0
pull1D
Entries 86
Mean −0.04901
Std Dev 1.087

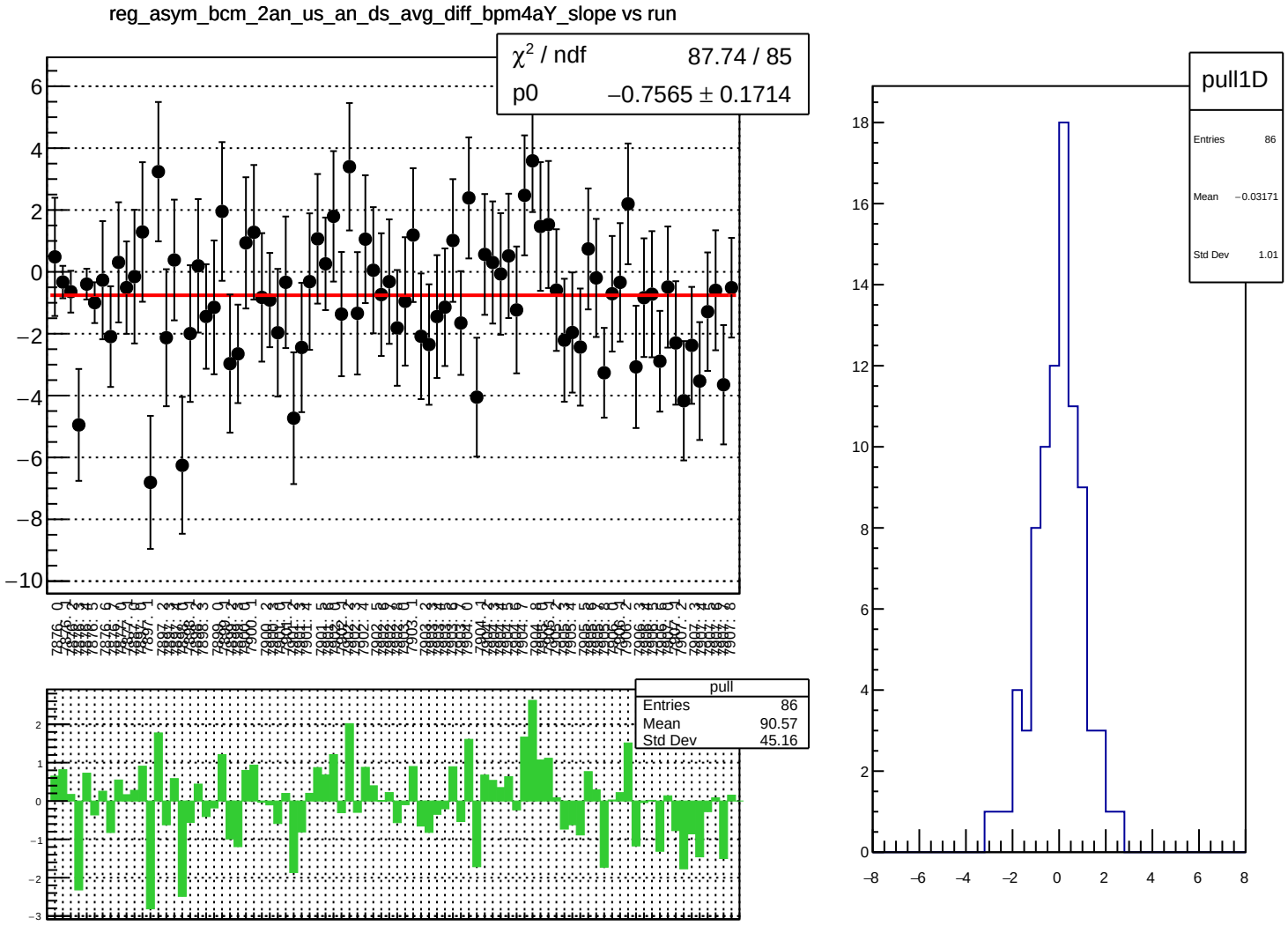

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 416 / 85
p0 −2.26 ± 0.1321
pull
Entries 86
Mean 68.58
Std Dev 0

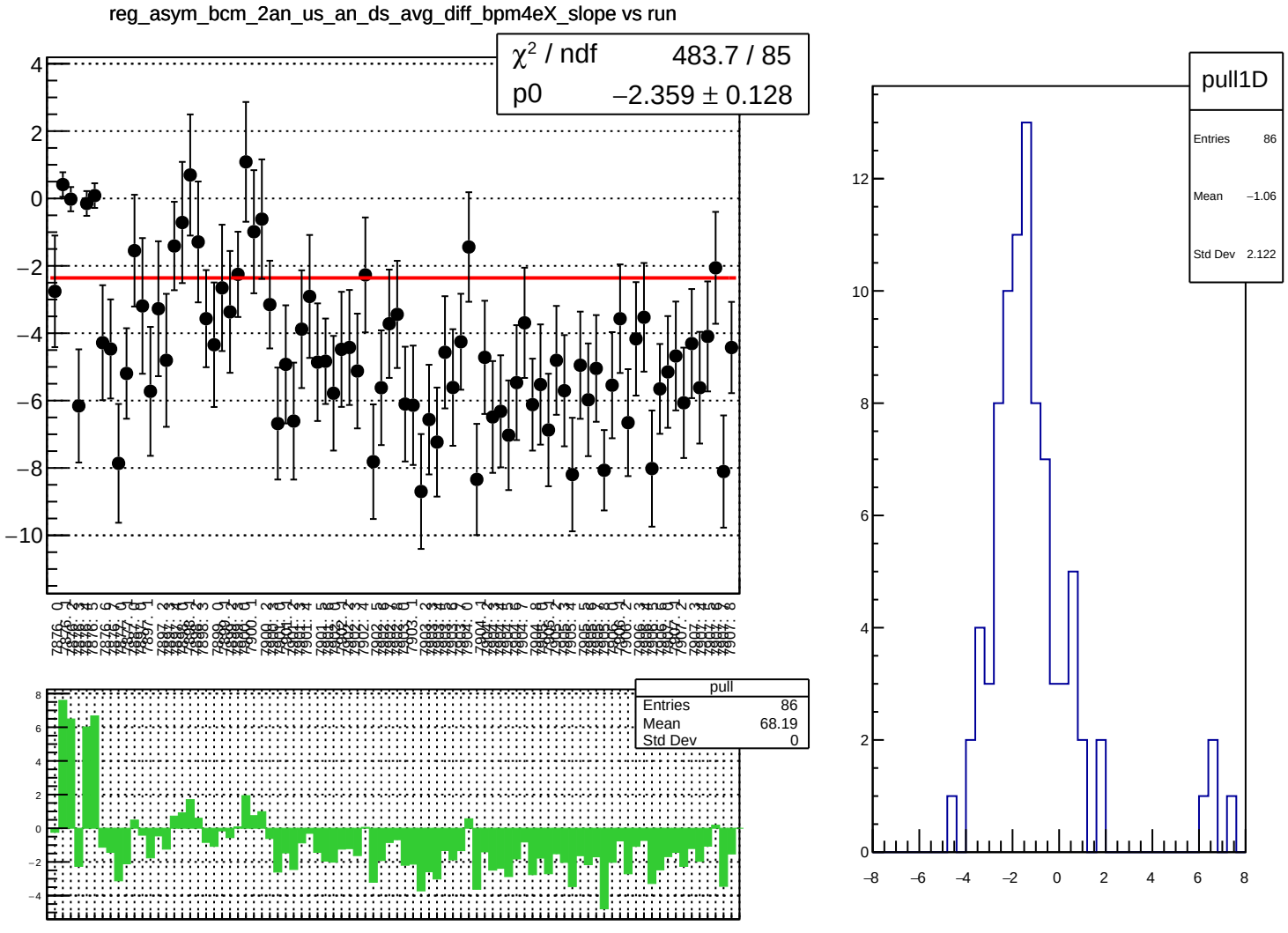

pull1D
Entries 86
Mean −0.9619
Std Dev 1.978

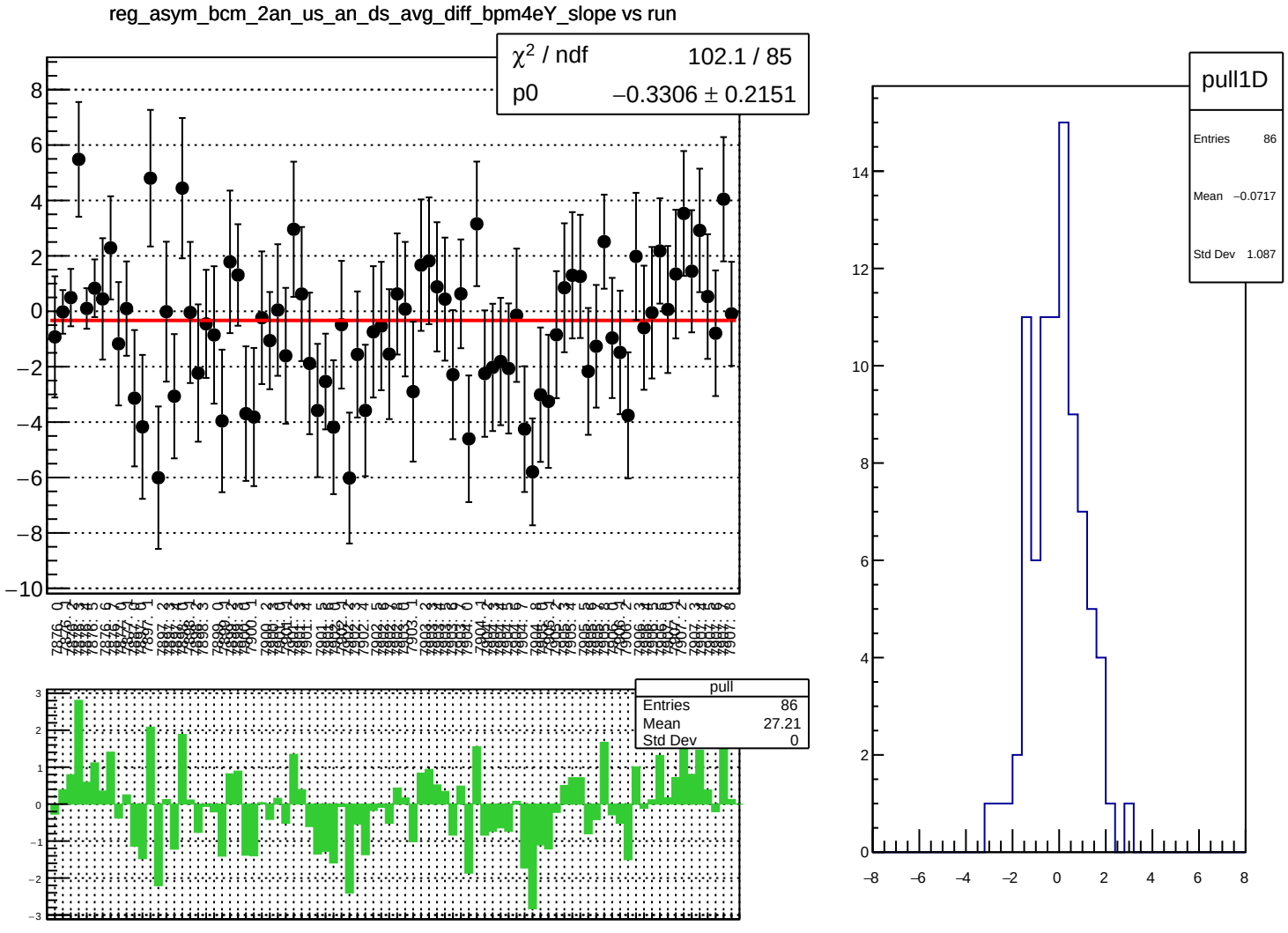

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 115.1 / 85
p0 −0.3115 ± 0.222
pull
Entries 86
Mean −22.92
Std Dev 0
pull1D
Entries 86
Mean −0.05277
Std Dev 1.155

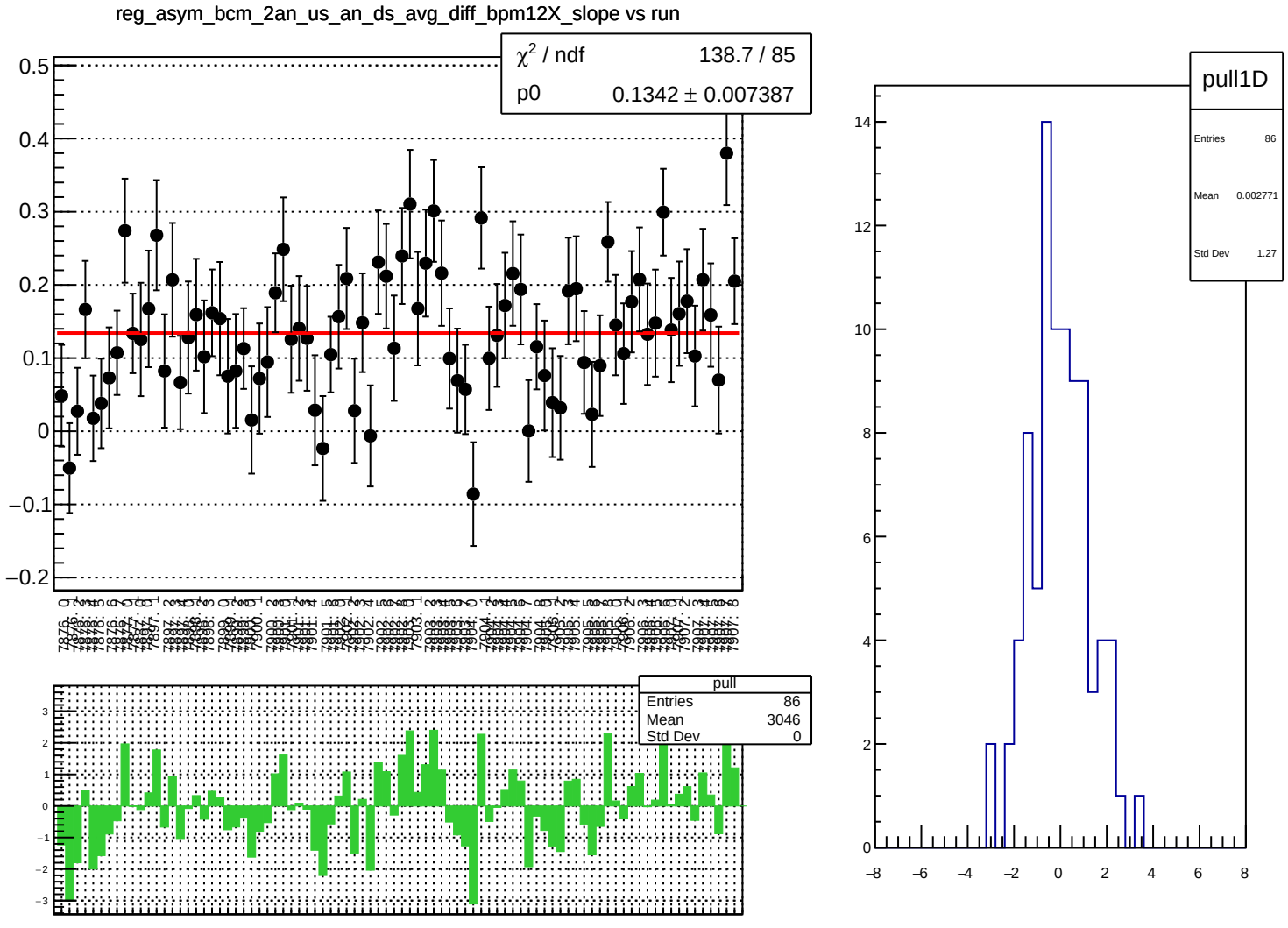

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 138.2 / 85
p0 0.1349 ± 0.007617
pull
Entries 86
Mean 961.1
Std Dev 0
pull1D
Entries 86
Mean 0.009245
Std Dev 1.268

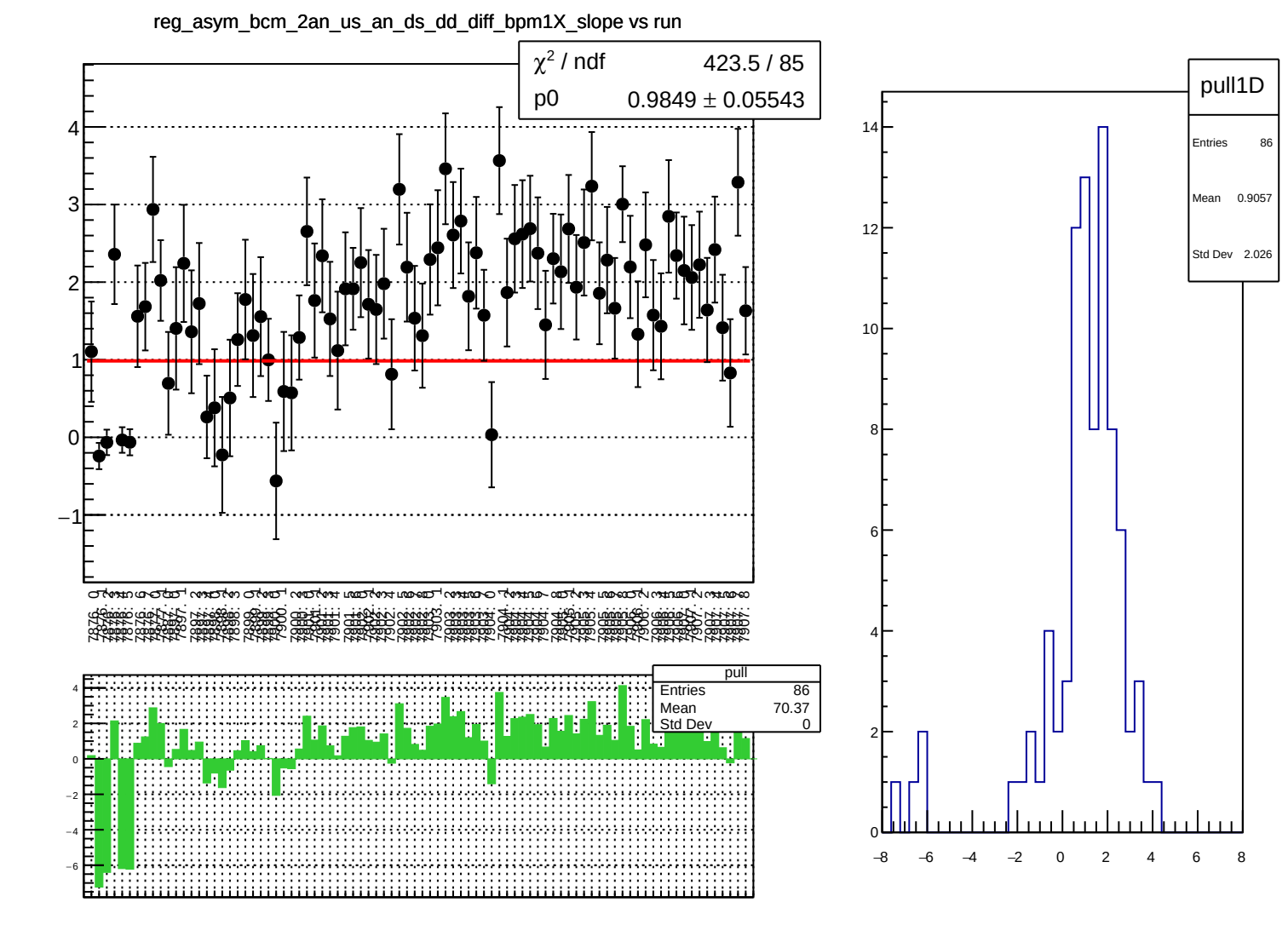

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 426.7 / 85
p0 2.993 ± 0.1599
pull
Entries 86
Mean 72.28
Std Dev 0
pull1D
Entries 86
Mean 0.8881
Std Dev 2.043

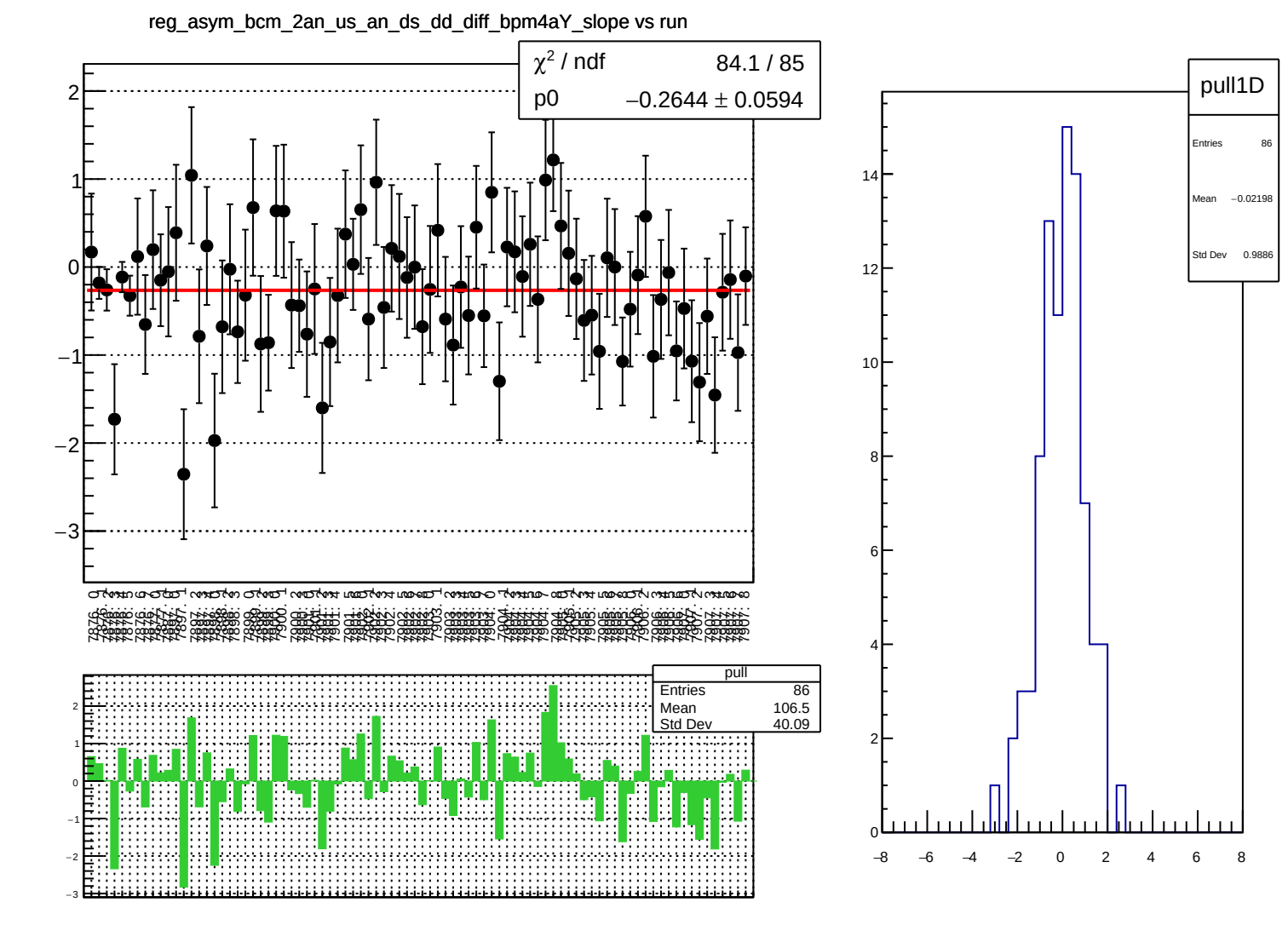

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.74 / 85
p0 −0.7565 ± 0.1714
pull
Entries 86
Mean 90.57
Std Dev 45.16
pull1D
Entries 86
Mean −0.03171
Std Dev 1.01

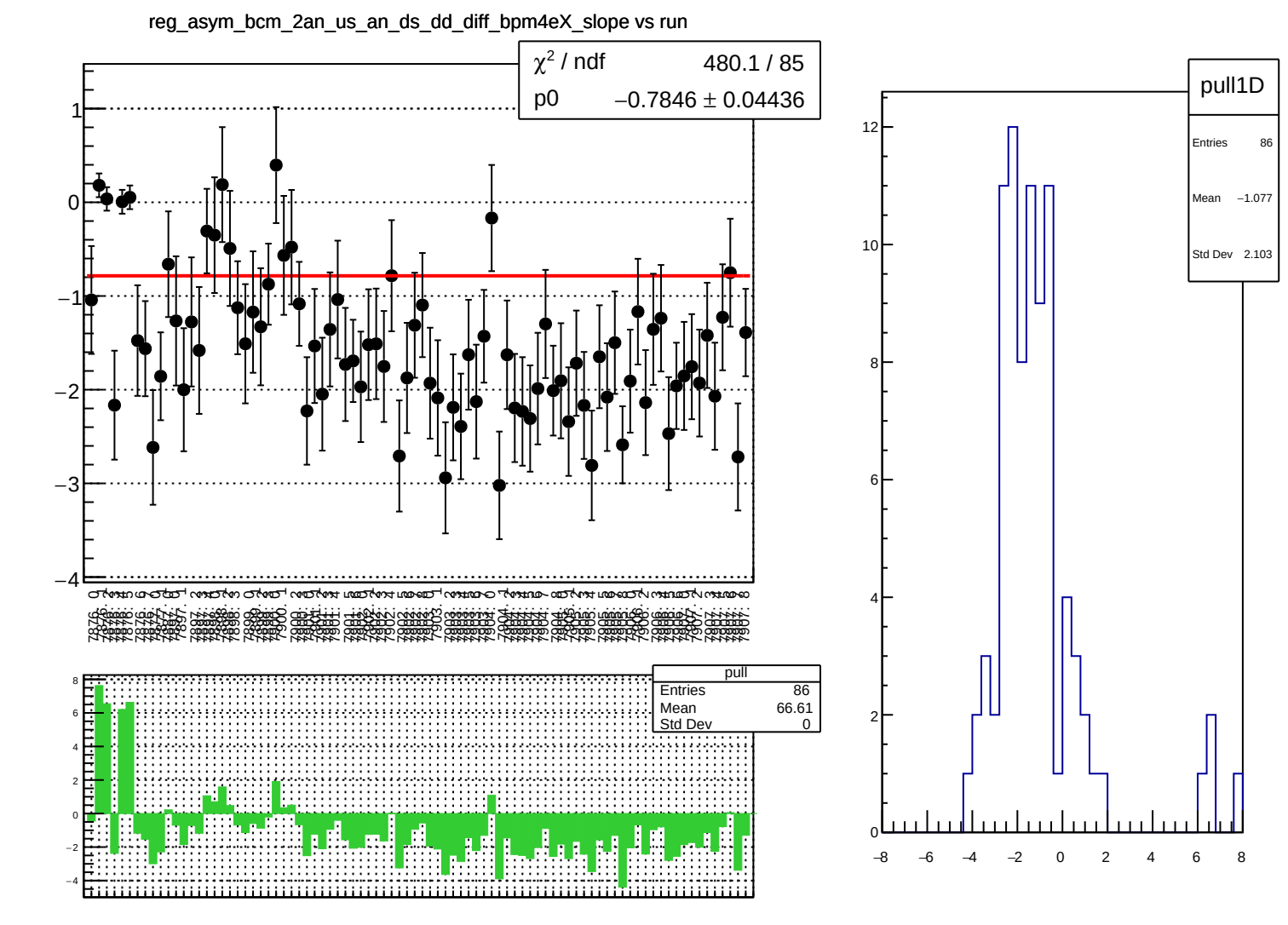

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 483.7 / 85
p0 −2.359 ± 0.128
pull
Entries 86
Mean 68.19
Std Dev 0
pull1D
Entries 86
Mean −1.06
Std Dev 2.122

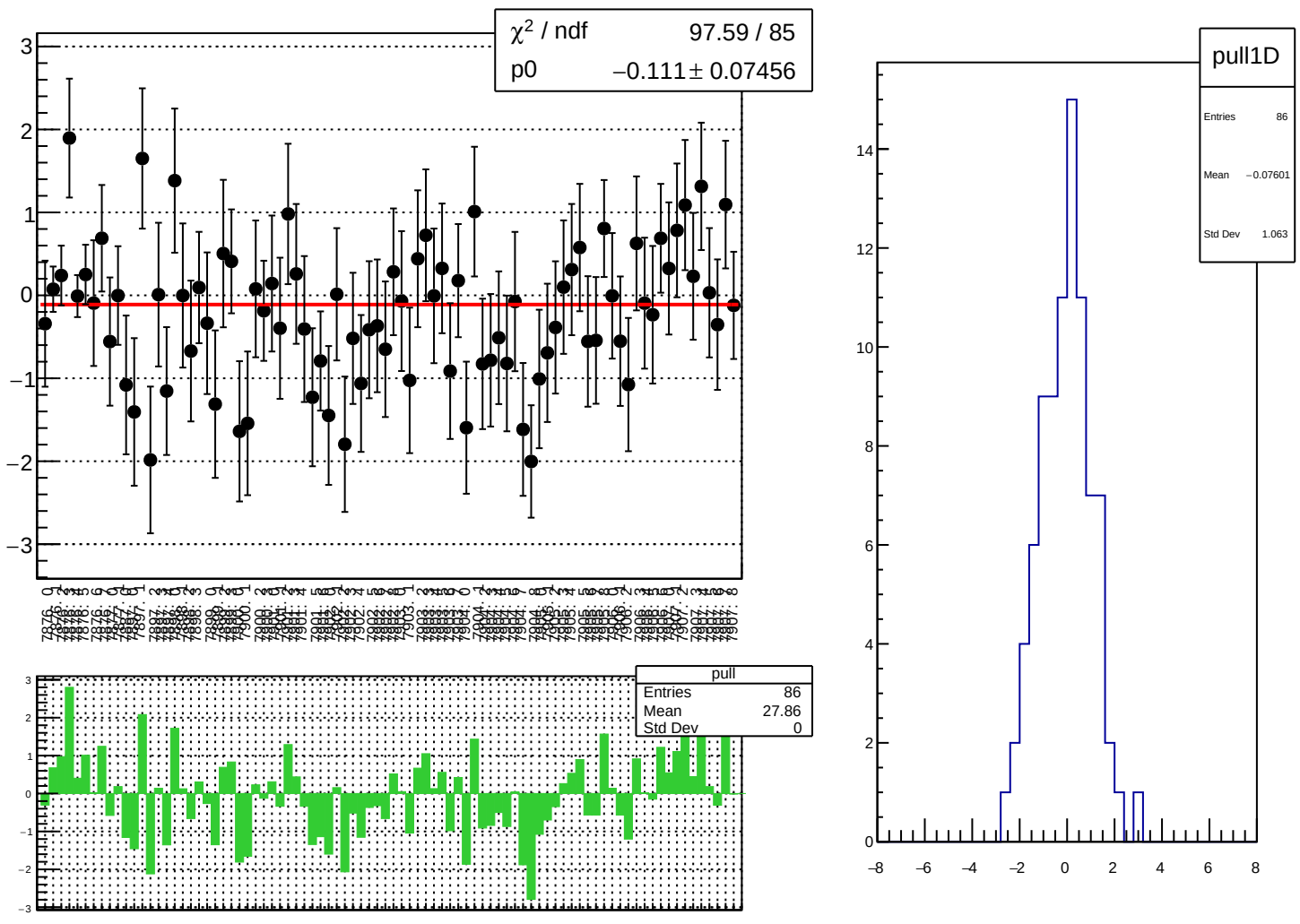

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 102.1 / 85
p0 −0.3306 ± 0.2151
pull
Entries 86
Mean 27.21
Std Dev 0
pull1D
Entries 86
Mean −0.0717
Std Dev 1.087

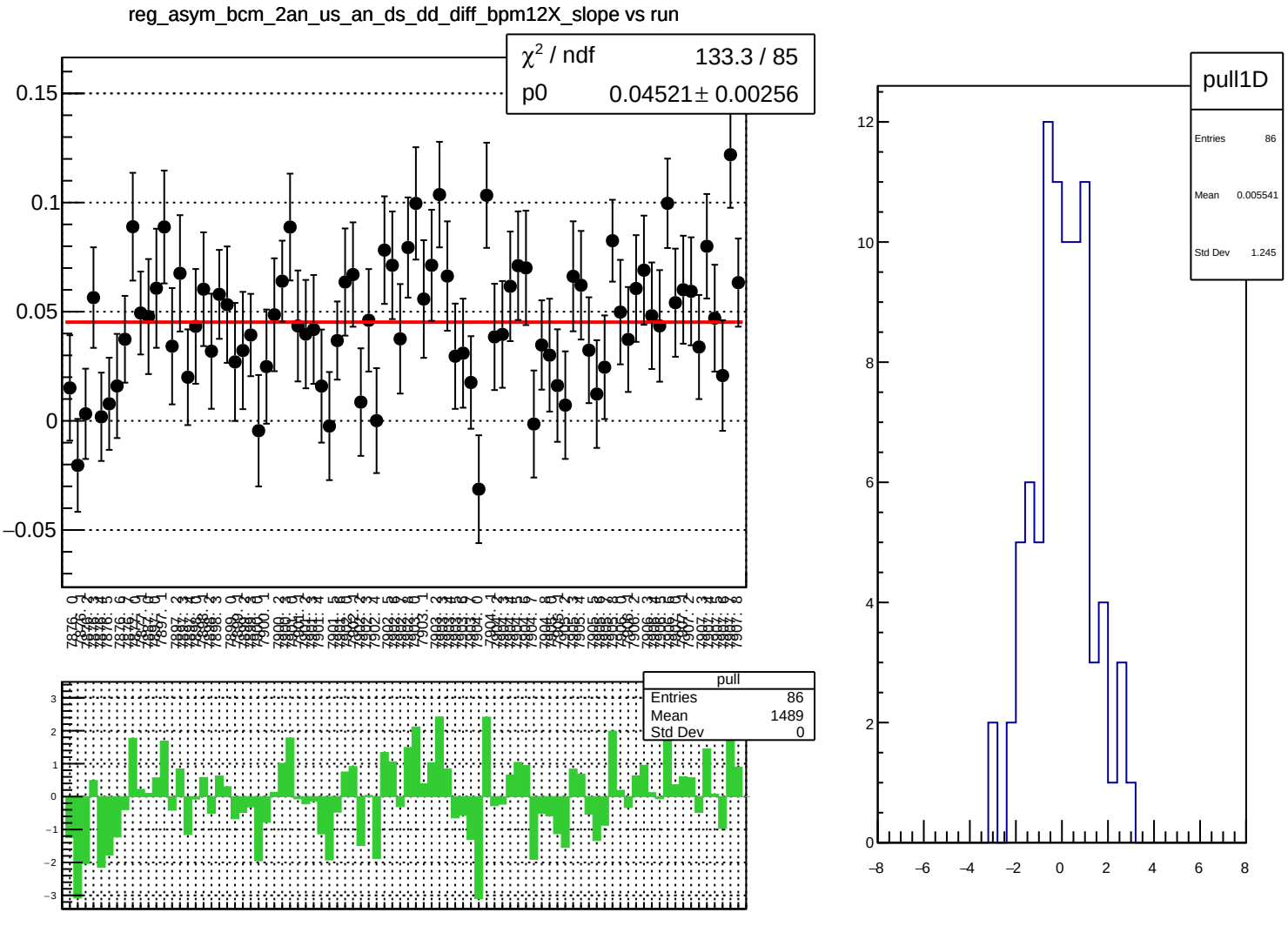

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 138.7 / 85
p0 0.1342 ± 0.007387
pull
Entries 86
Mean 3046
Std Dev 0
pull1D
Entries 86
Mean 0.002771
Std Dev 1.27

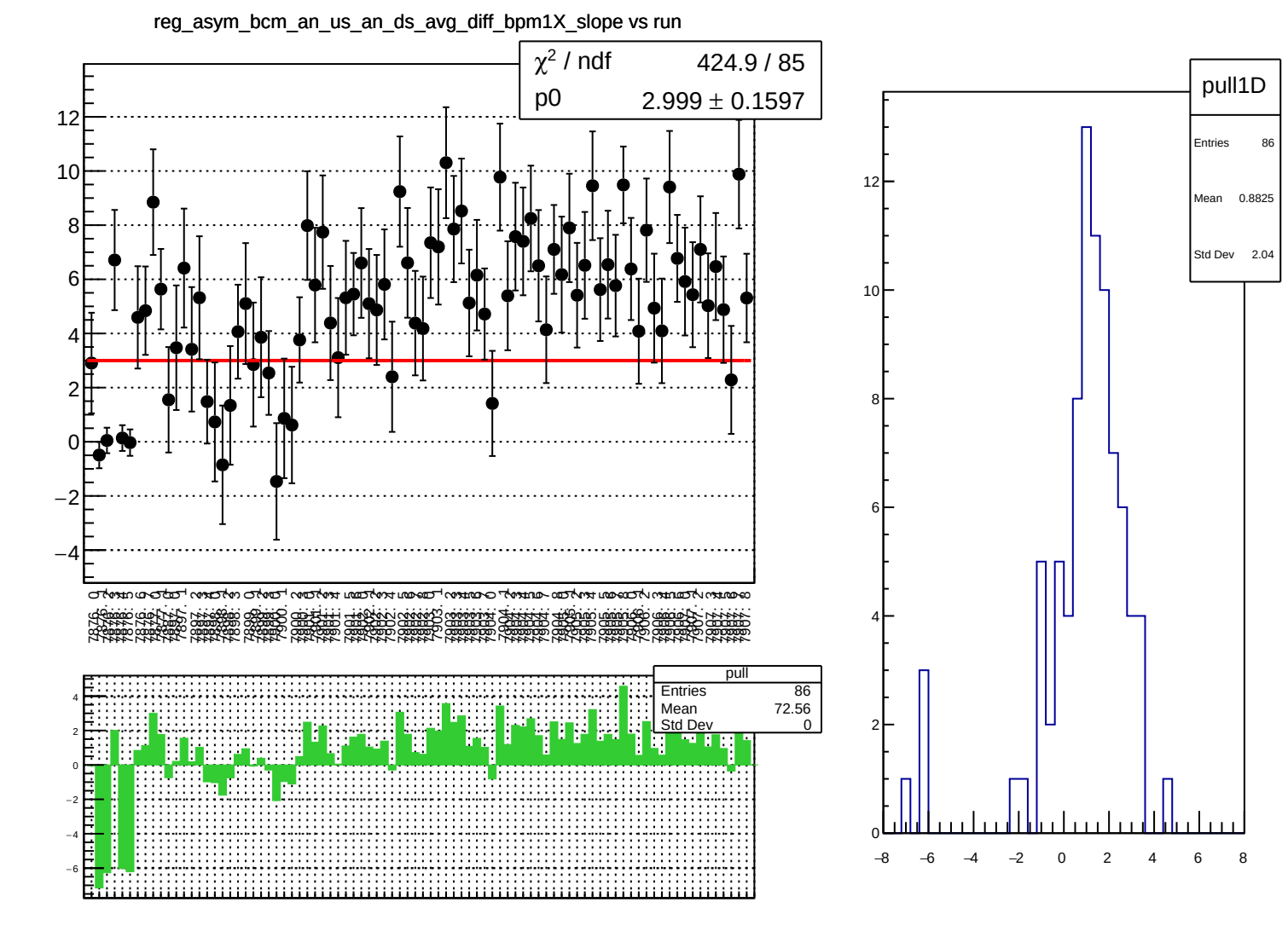

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 423.5 / 85
p0 0.9849 ± 0.05543
pull
Entries 86
Mean 70.37
Std Dev 0
pull1D
Entries 86
Mean 0.9057
Std Dev 2.026

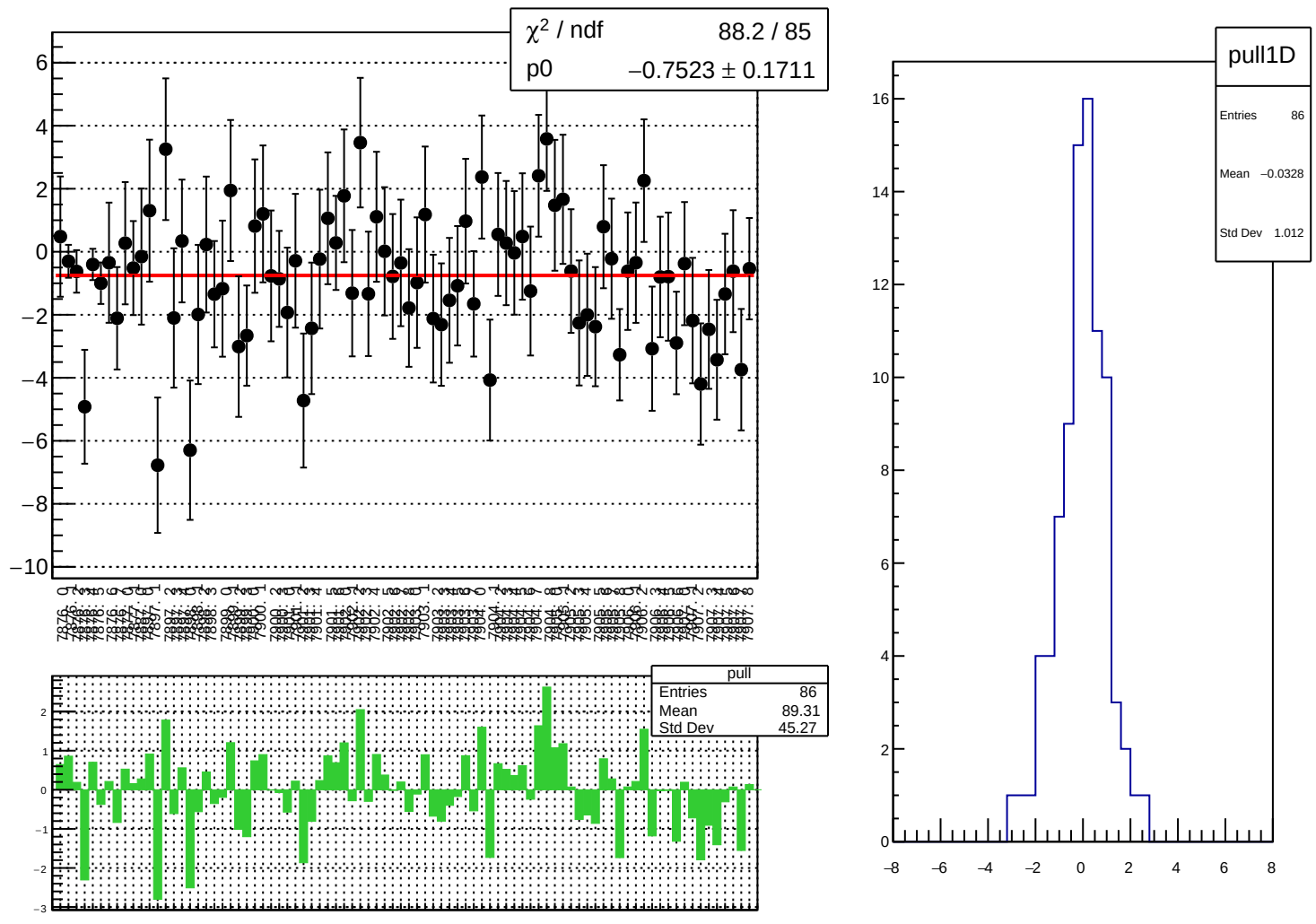

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.1 / 85
p0 −0.2644 ± 0.0594
pull
Entries 86
Mean 106.5
Std Dev 40.09
pull1D
Entries 86
Mean −0.02198
Std Dev 0.9886

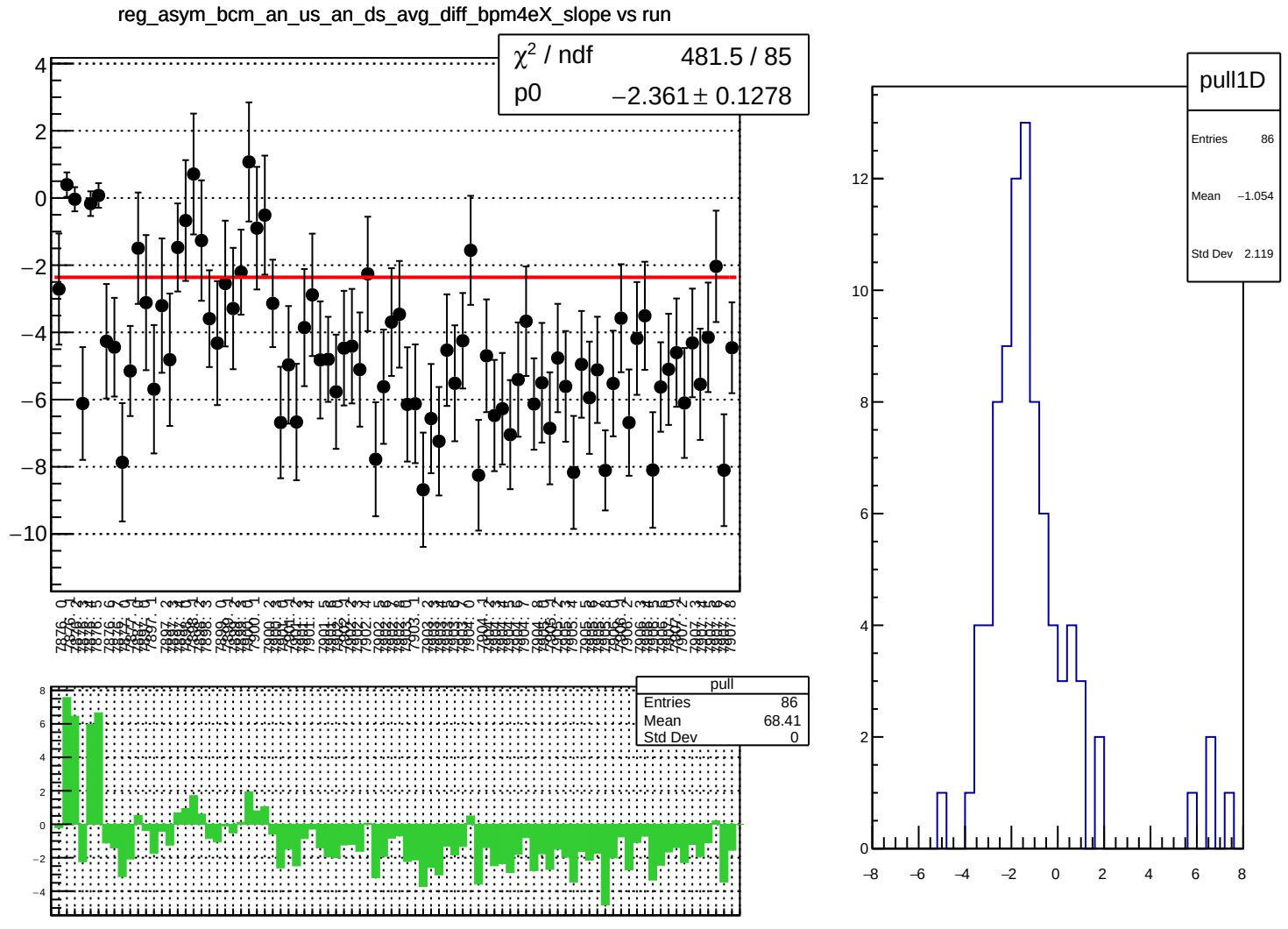

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 480.1 / 85
p0 −0.7846 ± 0.04436
pull
Entries 86
Mean 66.61
Std Dev 0
pull1D
Entries 86
Mean −1.077
Std Dev 2.103

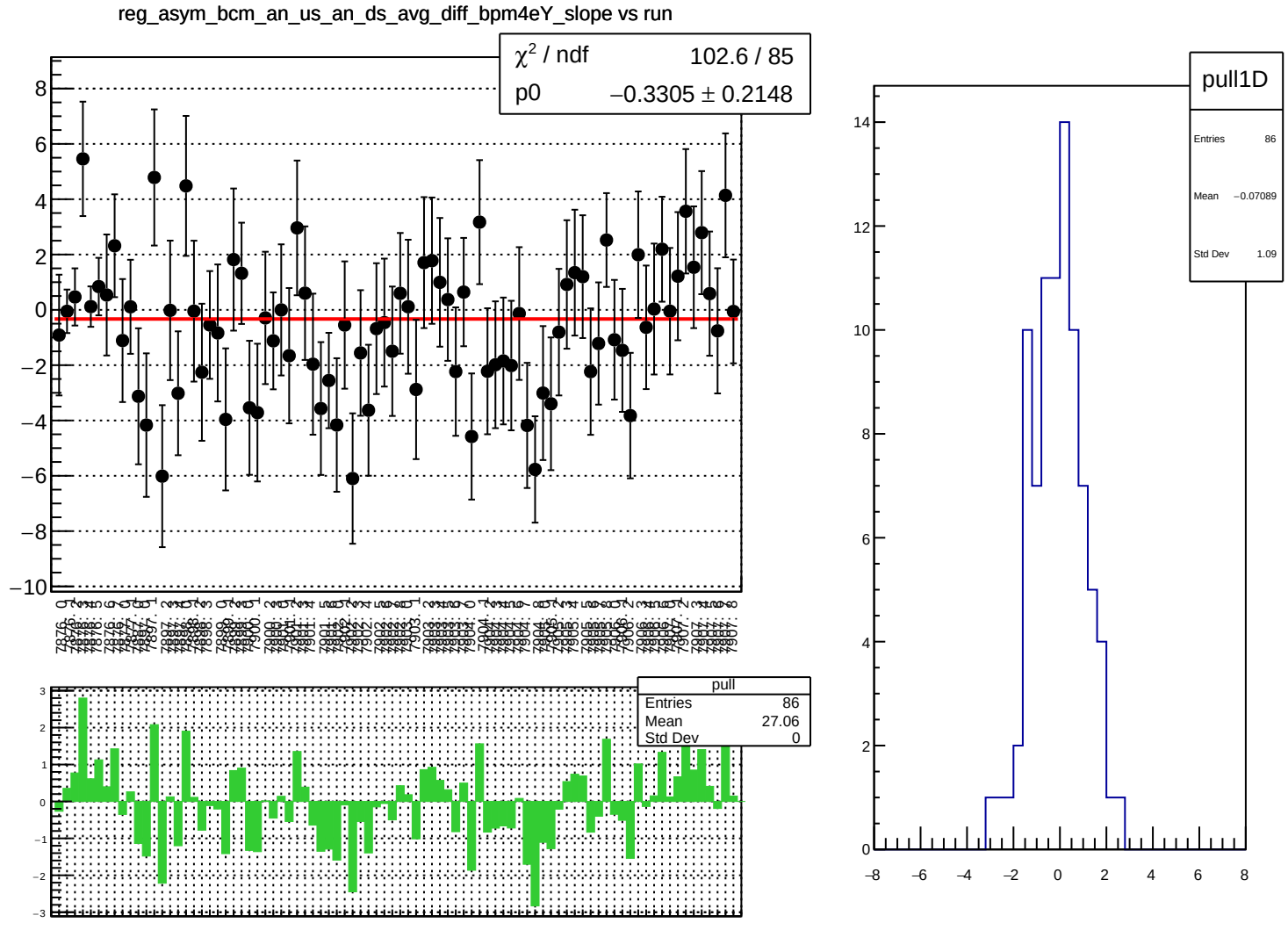

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 97.59 / 85
p0 −0.111 ± 0.07456
pull
Entries 86
Mean 27.86
Std Dev 0
pull1D
Entries 86
Mean −0.07601
Std Dev 1.063

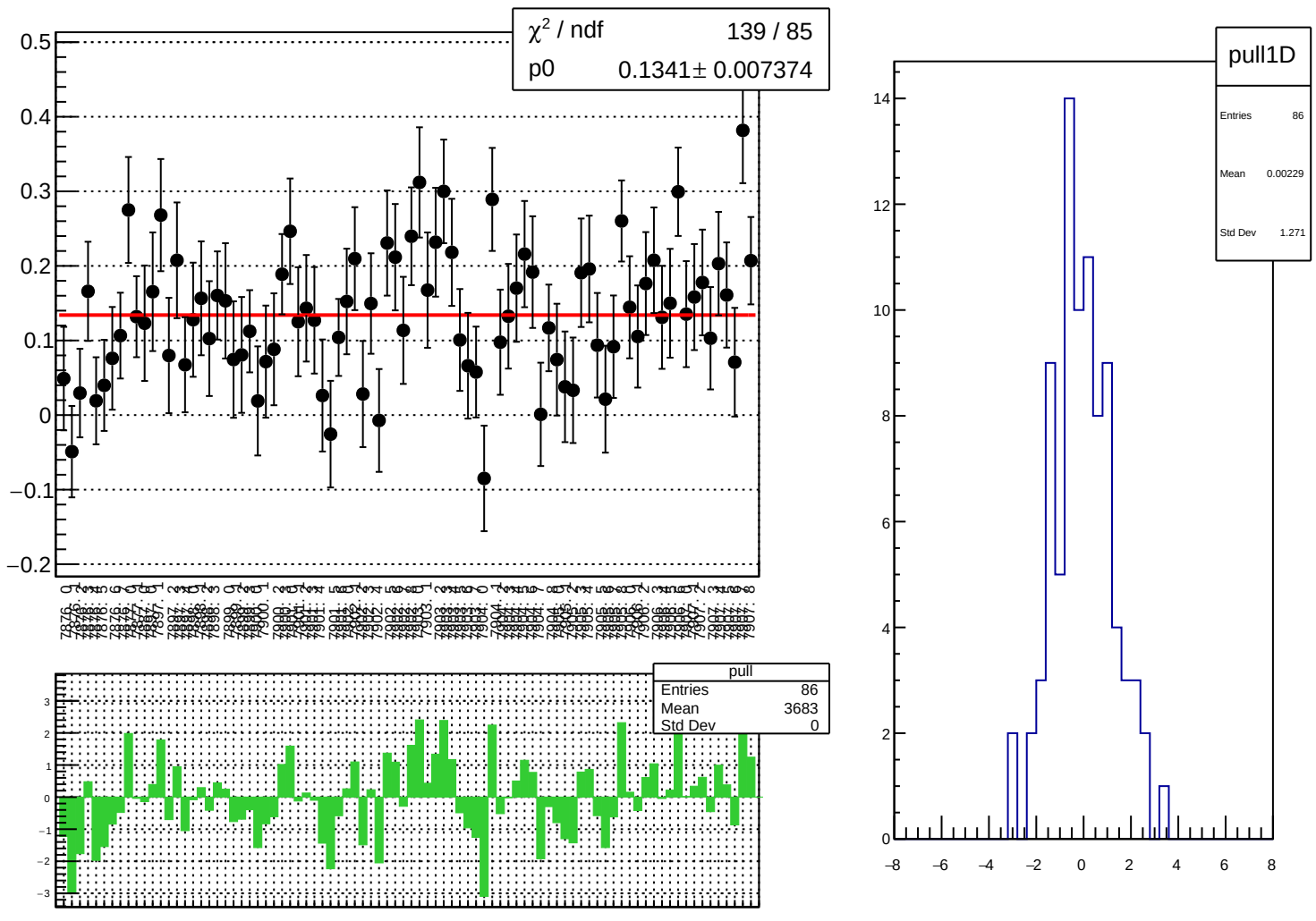

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 133.3 / 85
p0 0.04521 ± 0.00256
0.15
0.1
0.05
0
−0.05
pull
Entries 86
Mean 1489
Std Dev 0
pull1D
Entries 86
Mean 0.005541
Std Dev 1.245

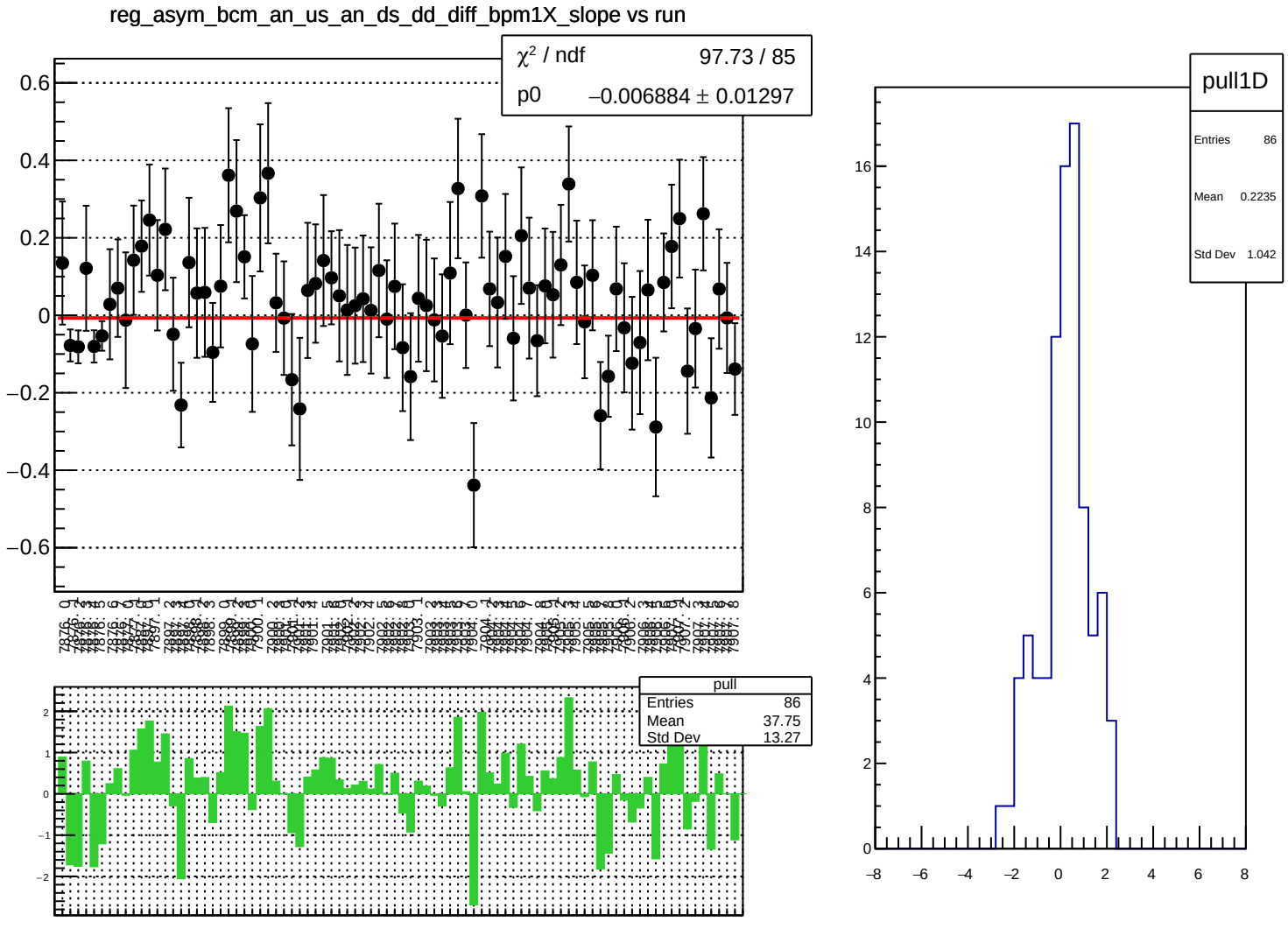

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 424.9 / 85
p0 2.999 ± 0.1597
pull
Entries 86
Mean 72.56
Std Dev 0
pull1D
Entries 86
Mean 0.8825
Std Dev 2.04

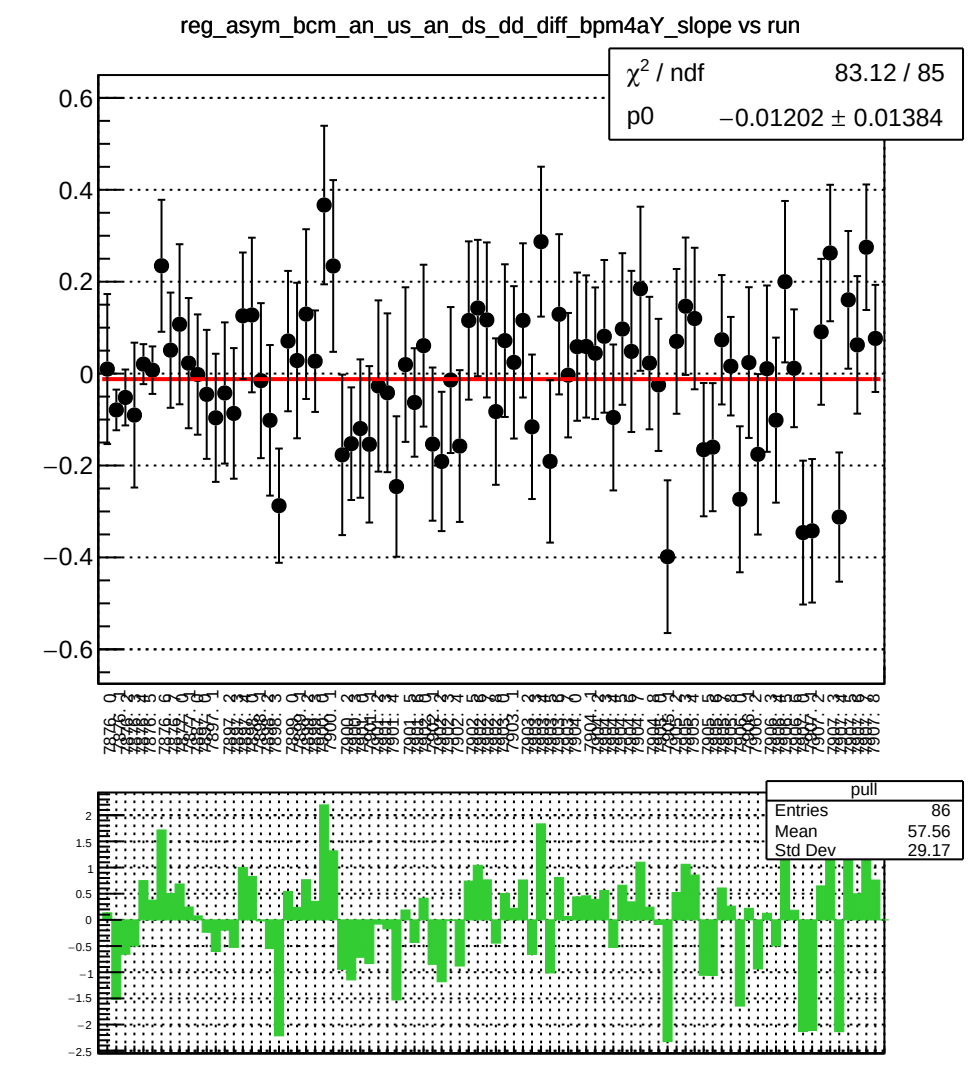

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.2 / 85
p0 −0.7523 ± 0.1711
pull
Entries 86
Mean 89.31
Std Dev 45.27
pull1D
Entries 86
Mean −0.0328
Std Dev 1.012

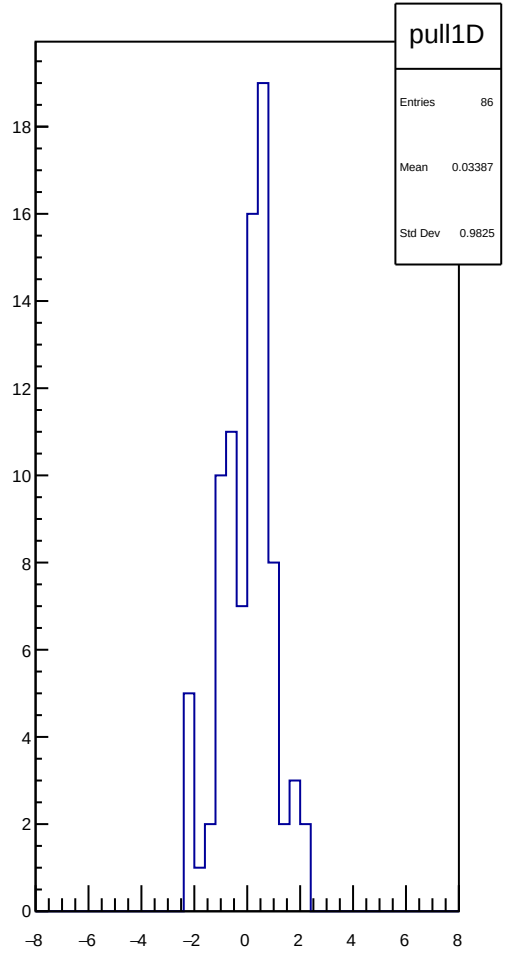

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 481.5 / 85
p0 −2.361 ± 0.1278
pull
Entries 86
Mean 68.41
Std Dev 0
pull1D
Entries 86
Mean −1.054
Std Dev 2.119

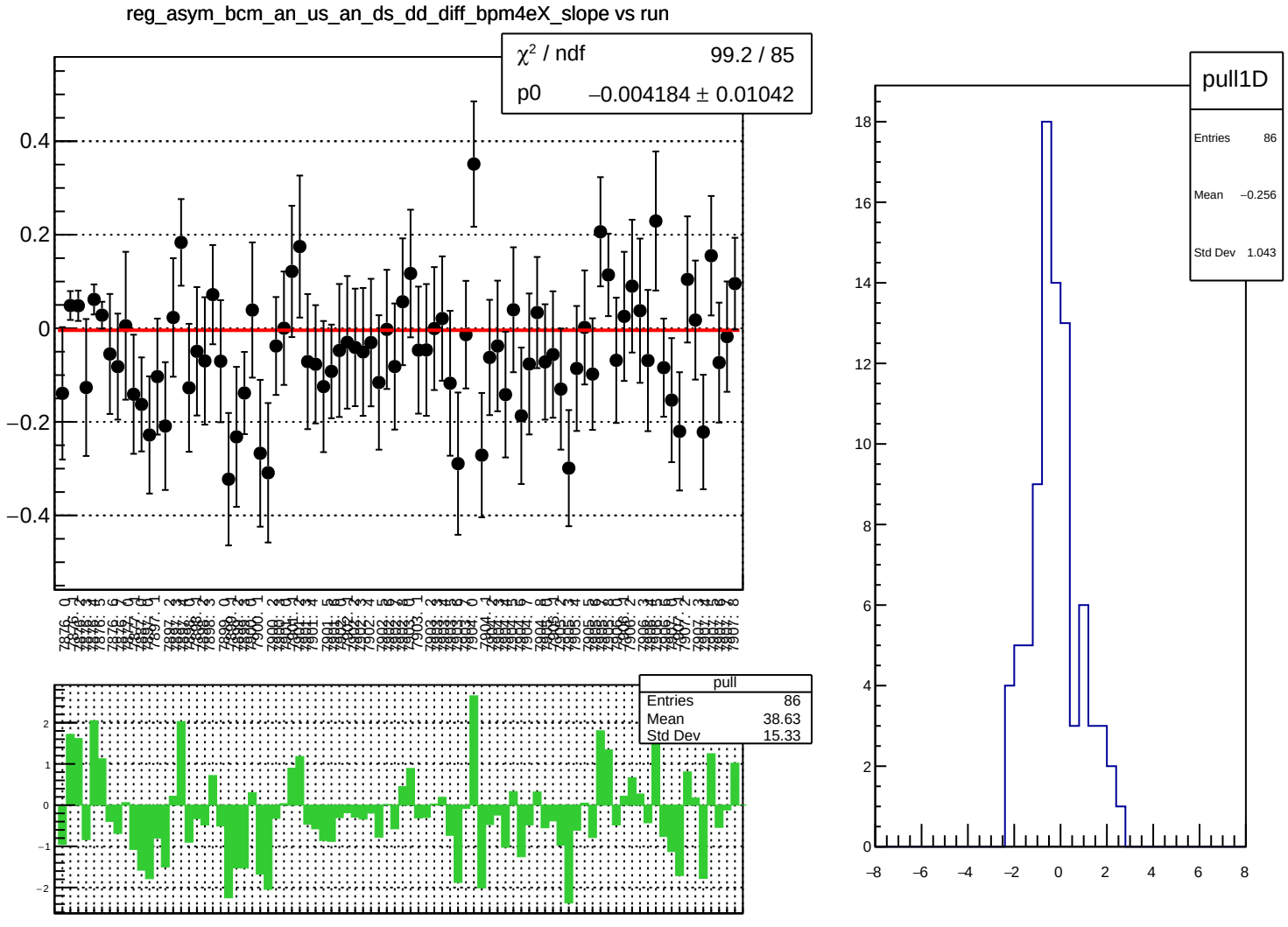

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 102.6 / 85
p0 −0.3305 ± 0.2148
pull
Entries 86
Mean 27.06
Std Dev 0
pull1D
Entries 86
Mean −0.07089
Std Dev 1.09

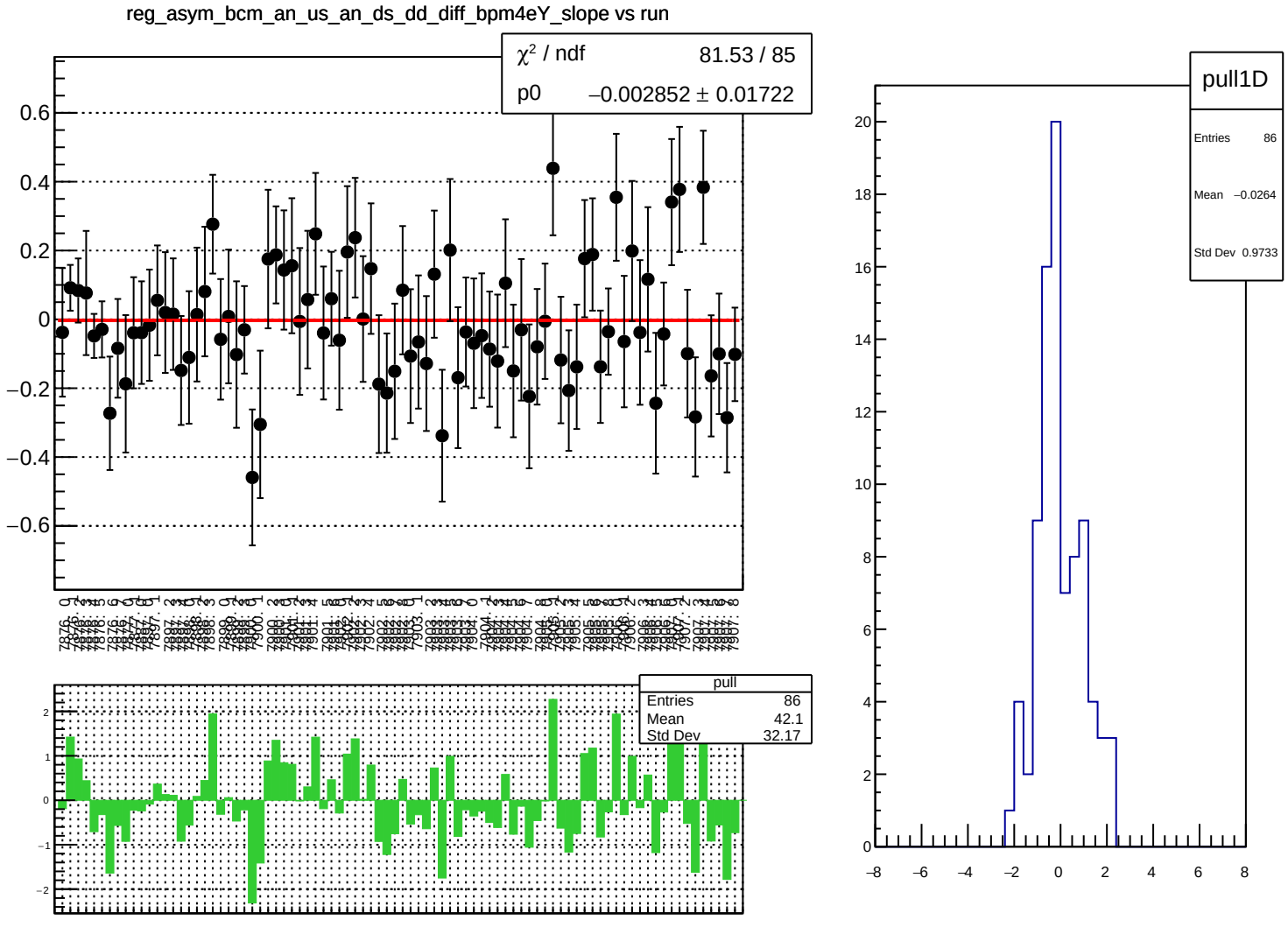

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 139 / 85
p0 0.1341± 0.007374
pull
Entries 86
Mean 3683
Std Dev 0
pull1D
Entries 86
Mean 0.00229
Std Dev 1.271

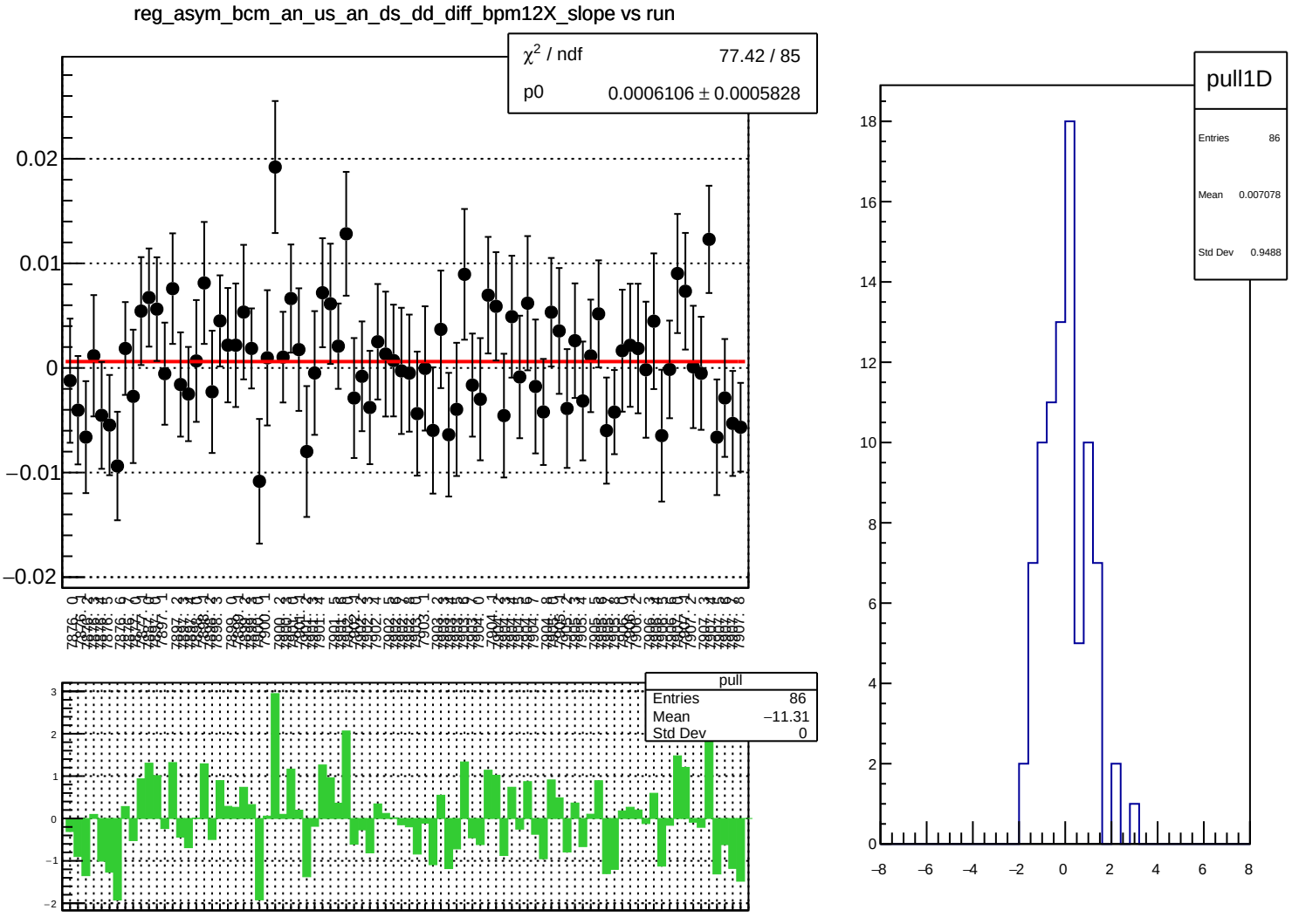

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 97.73 / 85
p0 −0.006884 ± 0.01297
pull
Entries 86
Mean 37.75
Std Dev 13.27
pull1D
Entries 86
Mean 0.2235
Std Dev 1.042

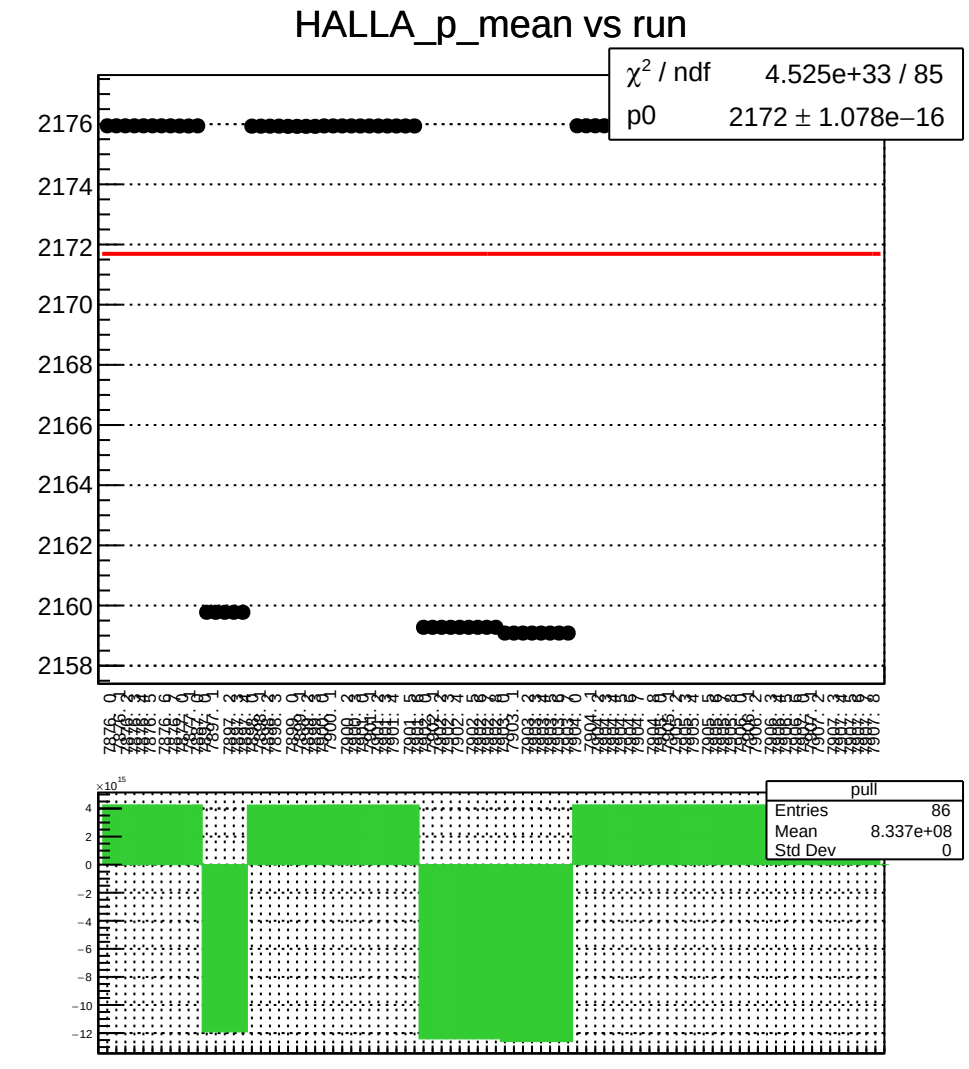

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.12 / 85
p0 −0.01202 ± 0.01384
pull
Entries 86
Mean 57.56
Std Dev 29.17

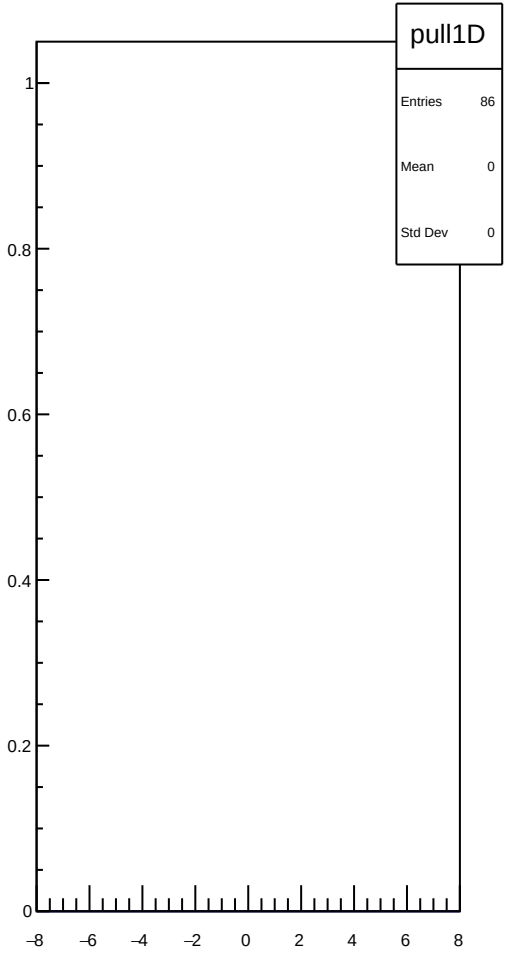

pull1D
Entries 86
Mean 0.03387
Std Dev 0.9825

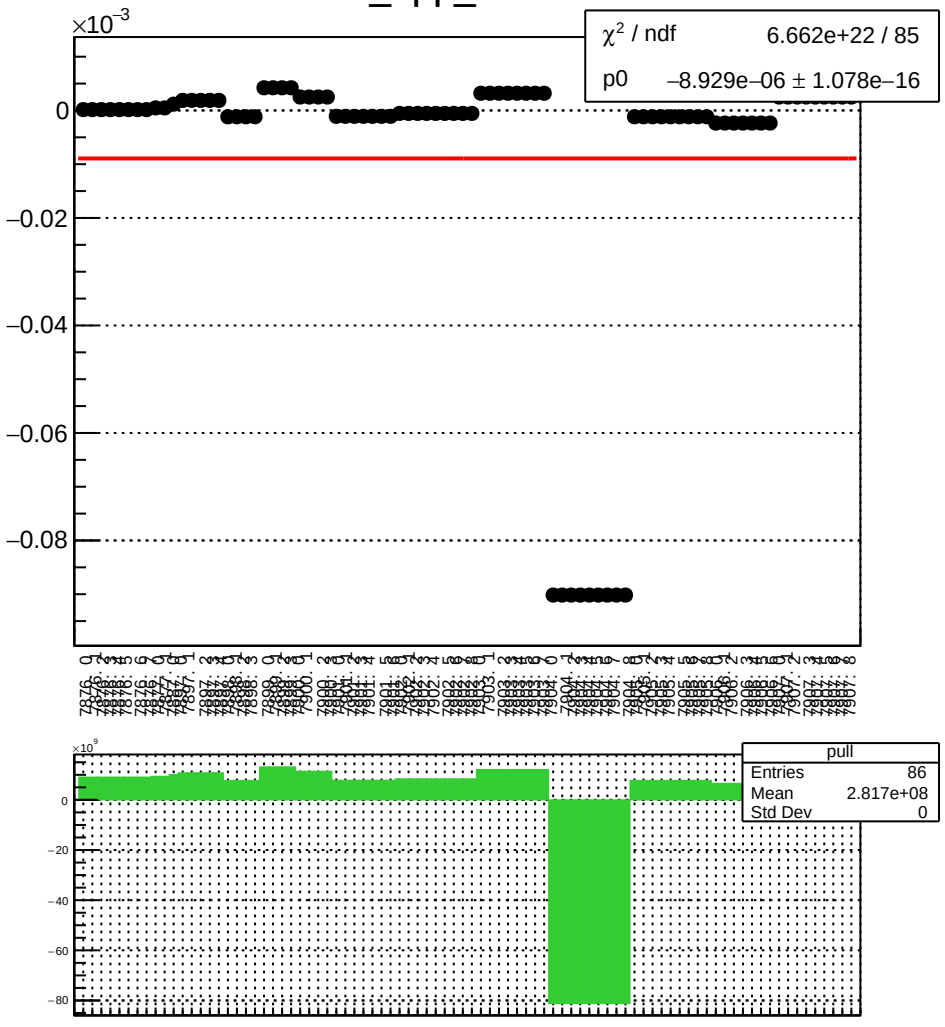

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 99.2 / 85
p0 −0.004184 ± 0.01042
pull
Entries 86
Mean 38.63
Std Dev 15.33
pull1D
Entries 86
Mean −0.256
Std Dev 1.043

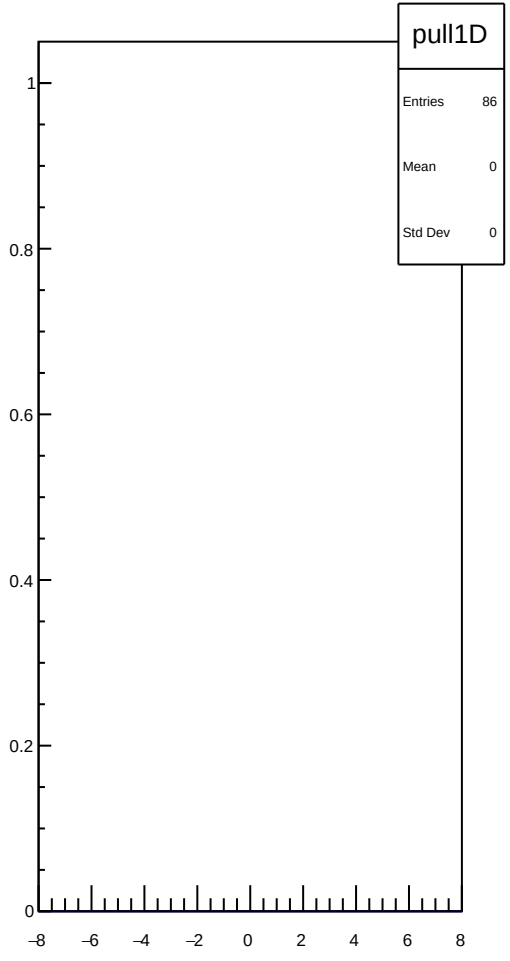

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.53 / 85
p0 −0.002852 ± 0.01722
pull
Entries 86
Mean 42.1
Std Dev 32.17
pull1D
Entries 86
Mean −0.0264
Std Dev 0.9733

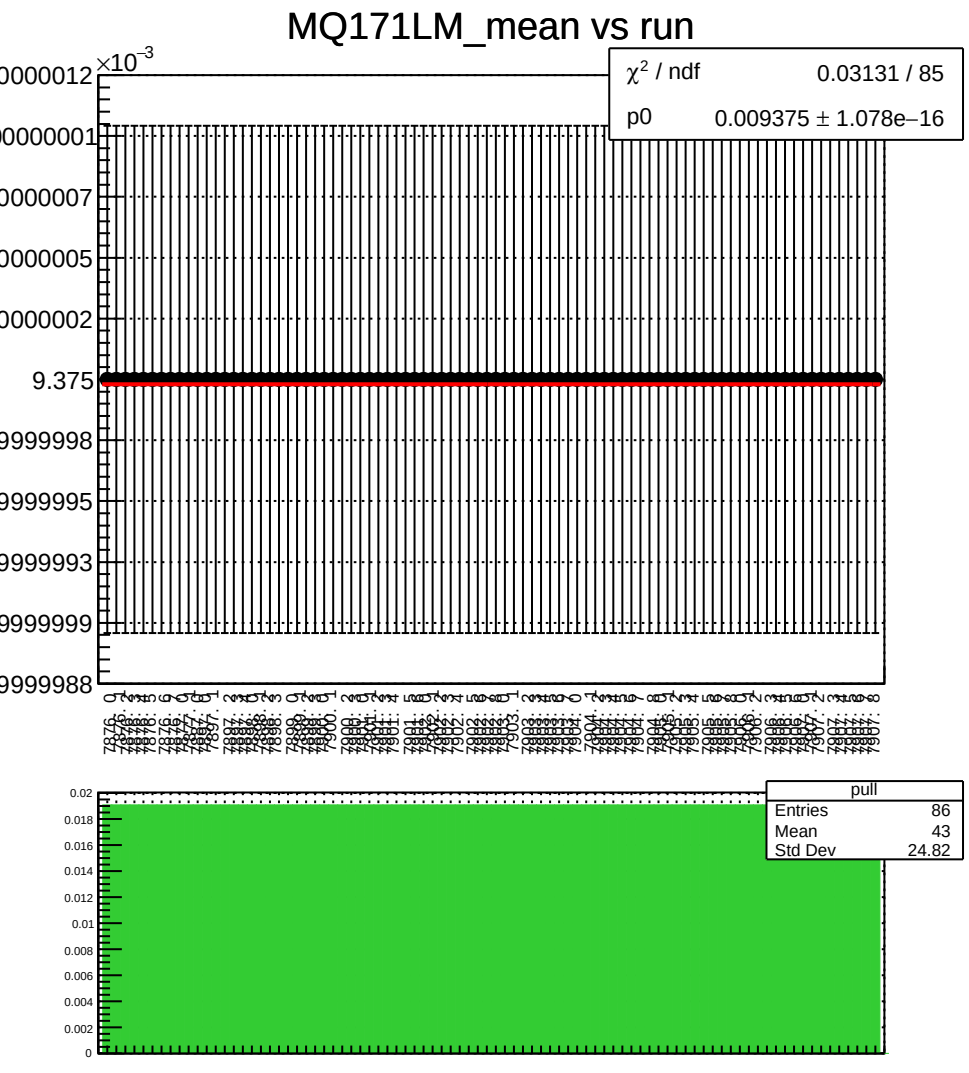

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 77.42 / 85
p0 0.0006106 ± 0.0005828
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean −11.31
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.007078
Std Dev 0.9488
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

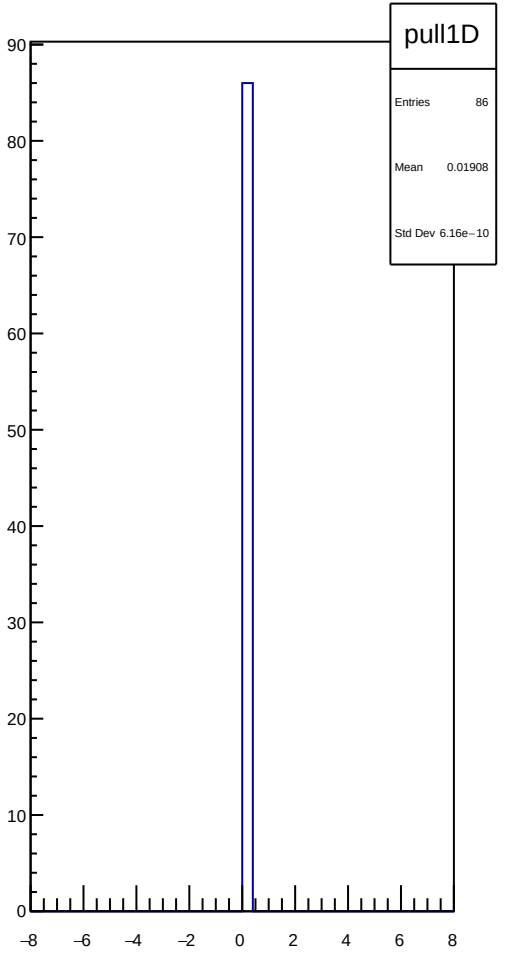

HALLA_p_mean vs run
χ² / ndf 4.525e+33 / 85
p0 2172 ± 1.078e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 86
Mean 8.337e+08
Std Dev 0
×10¹⁵
4
2
0
−2
−4
−6
−8
−10
−12

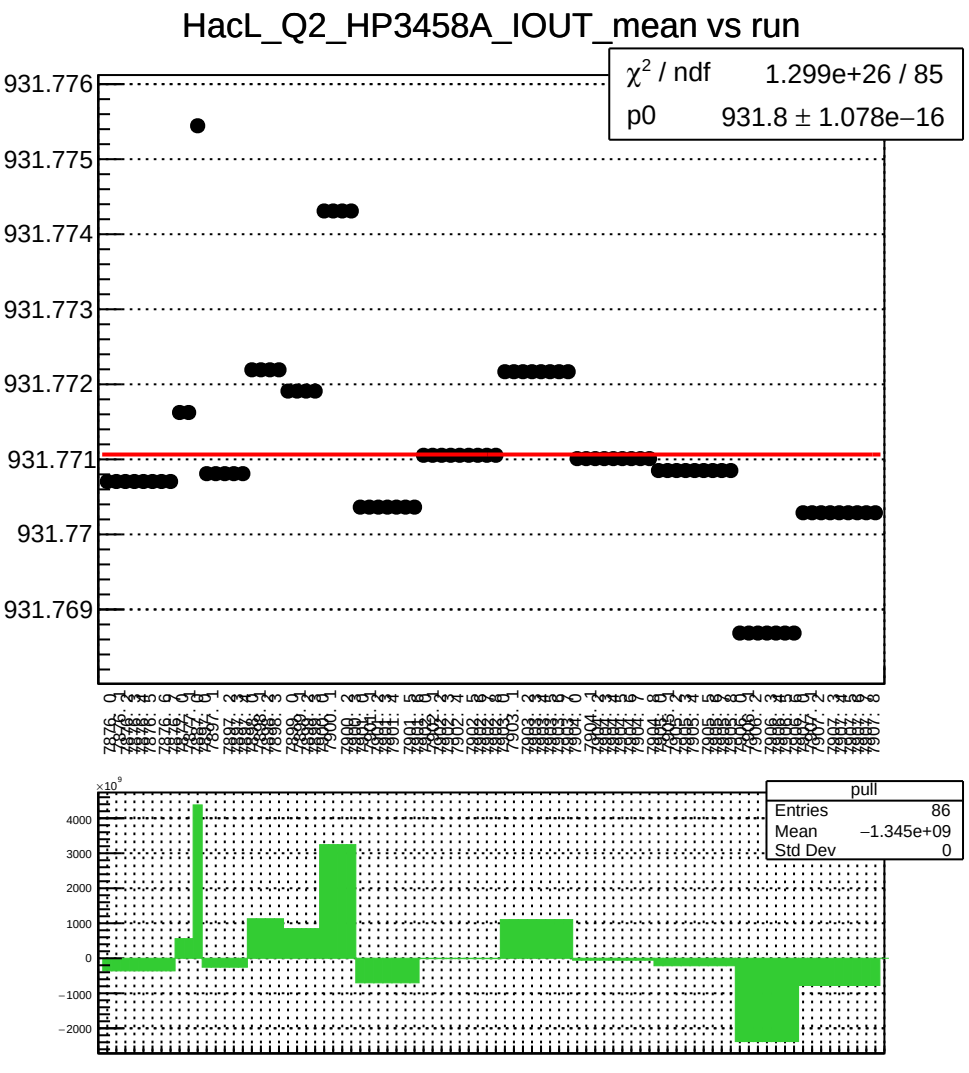

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

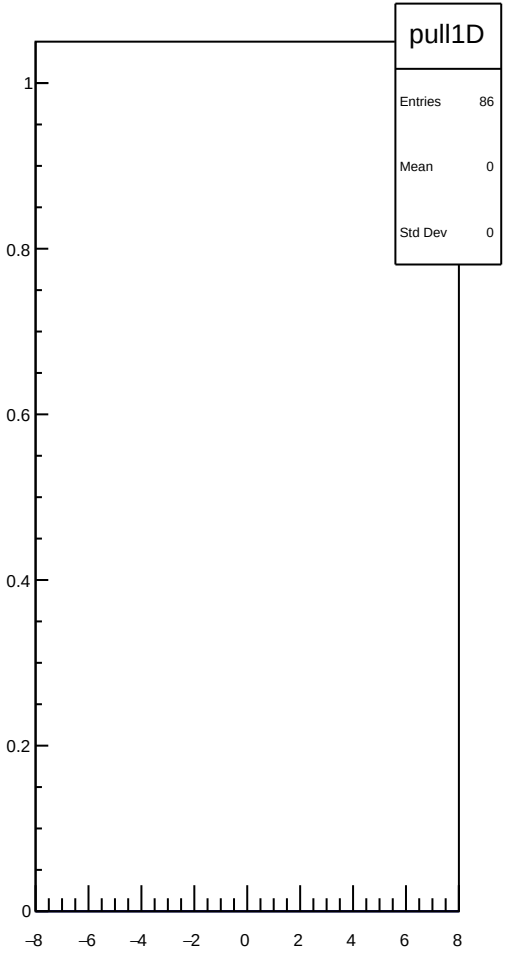

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 6.662e+22 / 85
p0 −8.929e−06 ± 1.078e−16
0
−0.02
−0.04
−0.06
−0.08
×10⁹
pull
Entries 86
Mean 2.817e+08
Std Dev 0
0
−20
−40
−60
−80

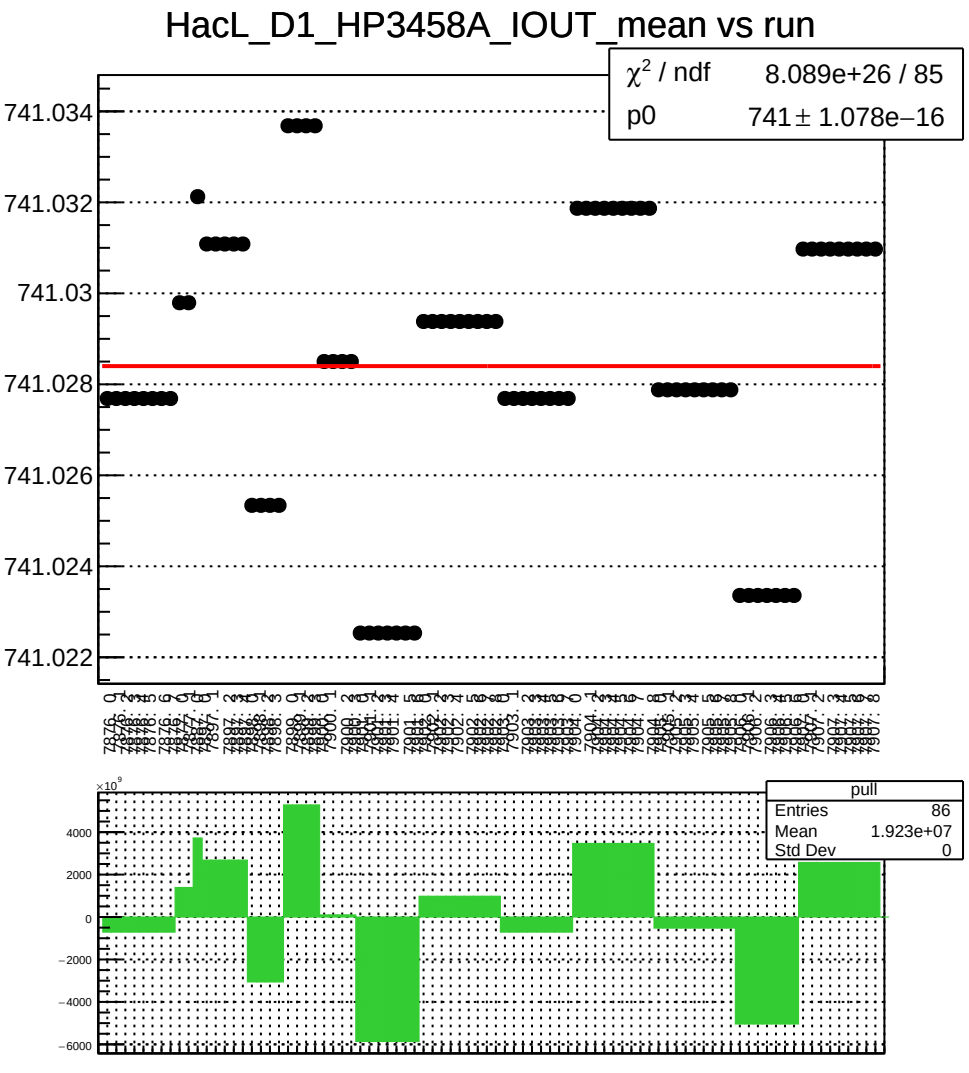

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

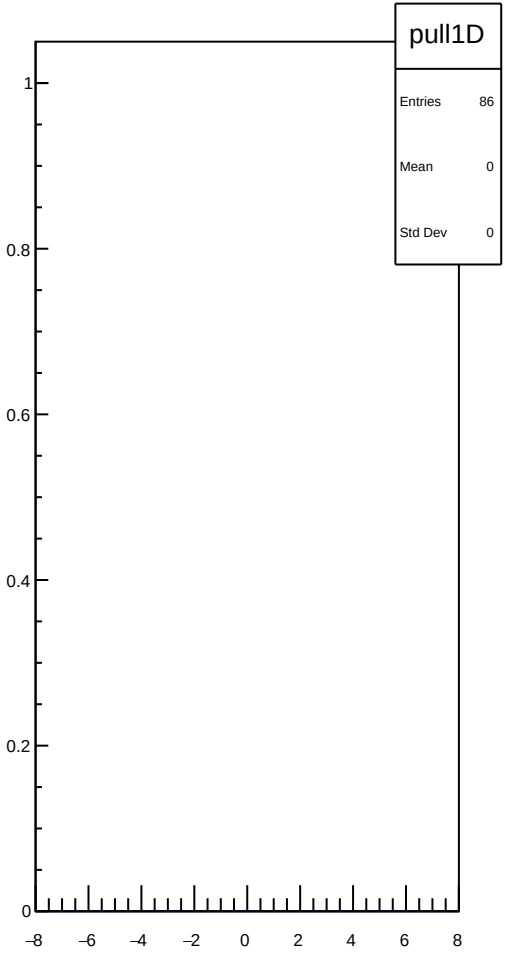

MQ171LM_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82

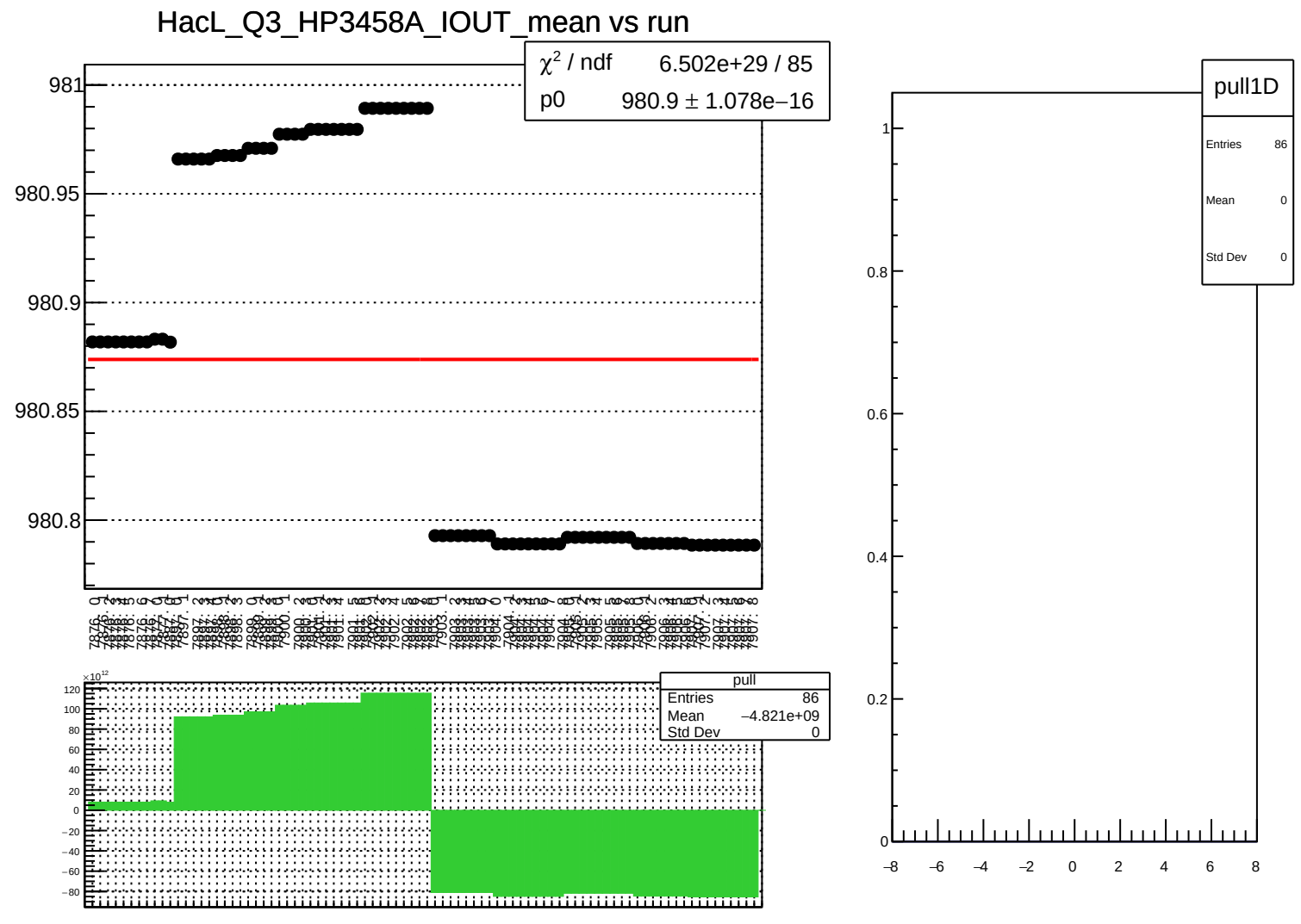

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

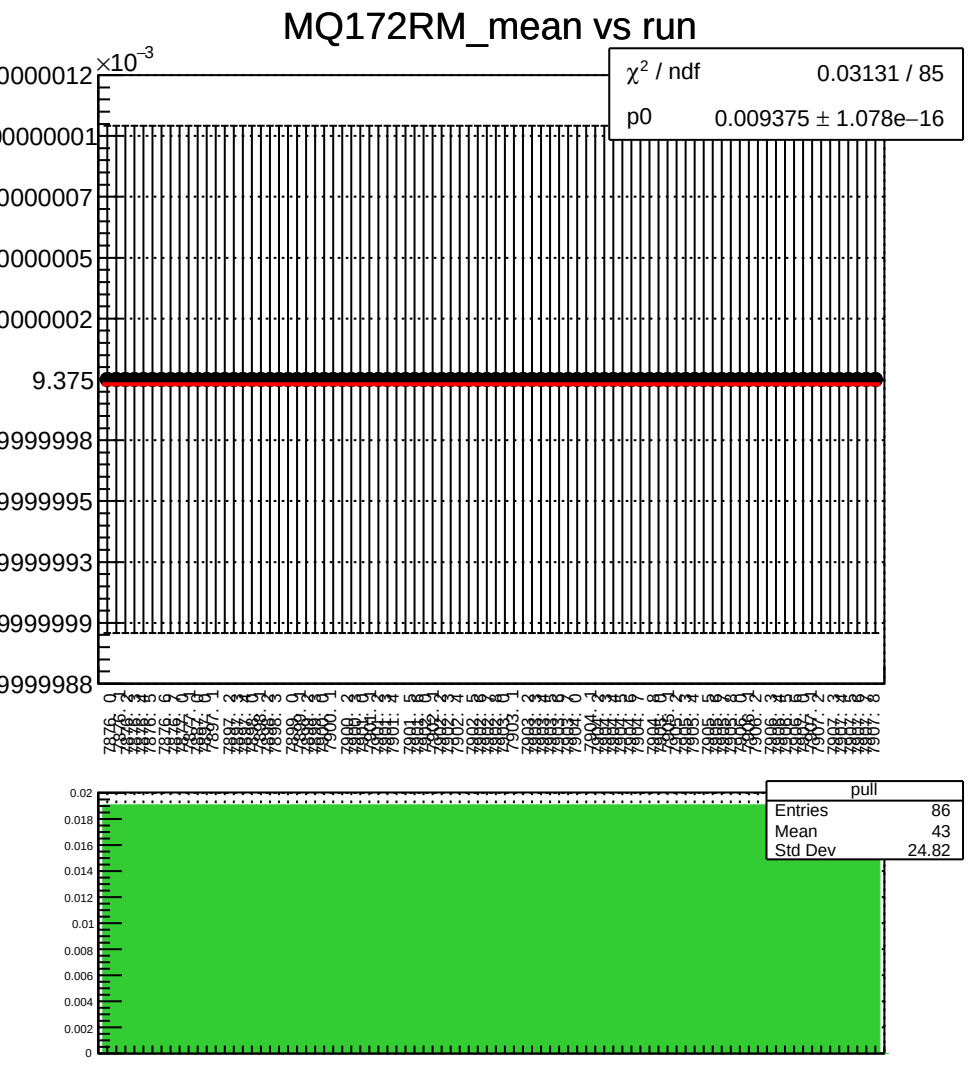

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.299e+26 / 85
p0 931.8 ± 1.078e−16
931.776
931.775
931.774
931.773
931.772
931.771
931.77
931.769
×10⁹
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −1.345e+09
Std Dev 0

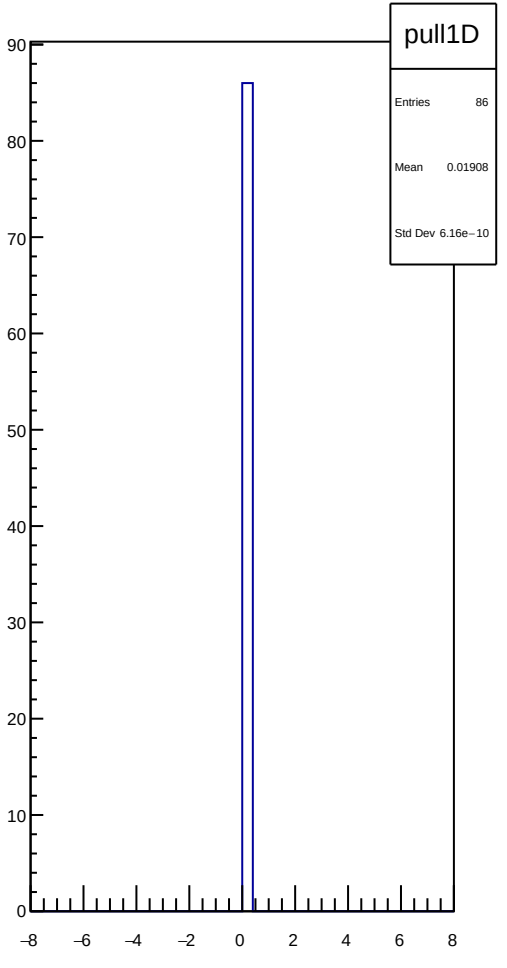

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

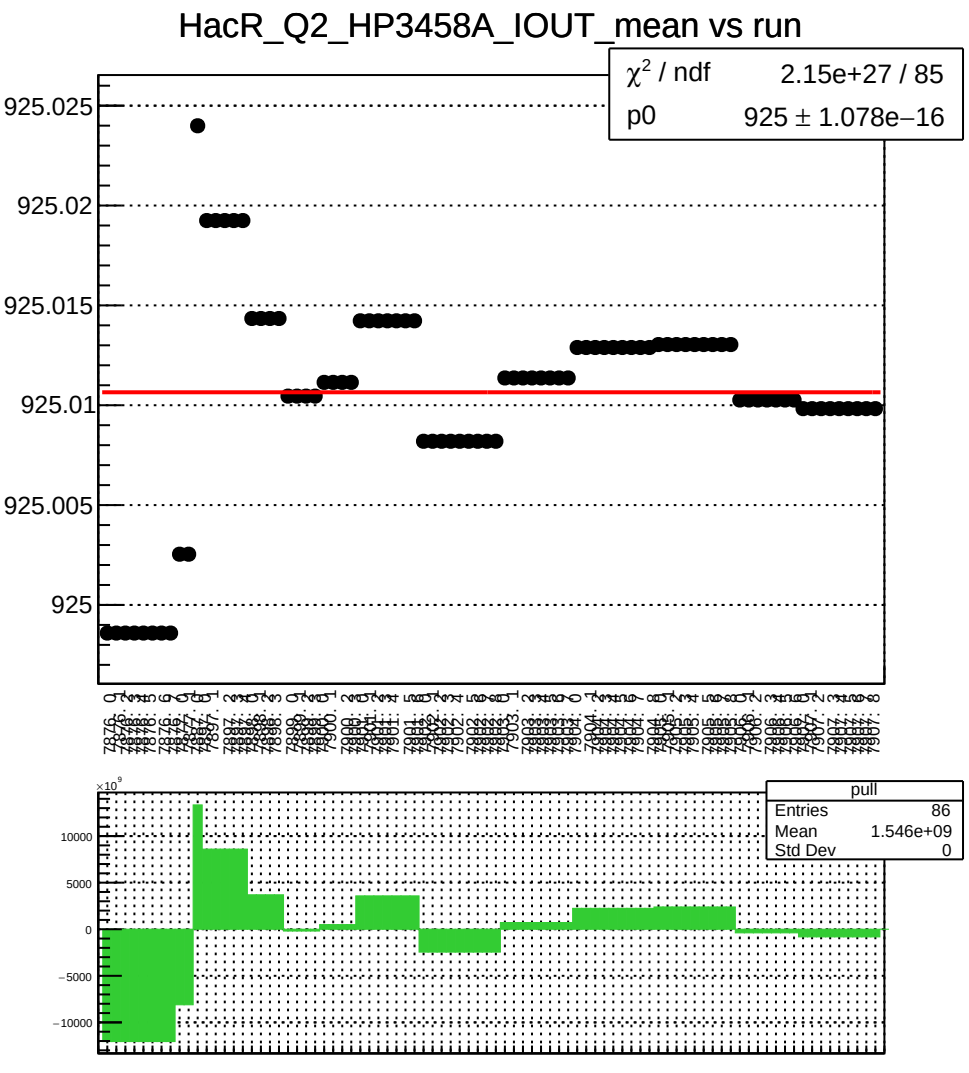

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 8.089e+26 / 85
p0 741 ± 1.078e−16
741.034
741.032
741.03
741.028
741.026
741.024
741.022
pull
Entries 86
Mean 1.923e+07
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000
−6000

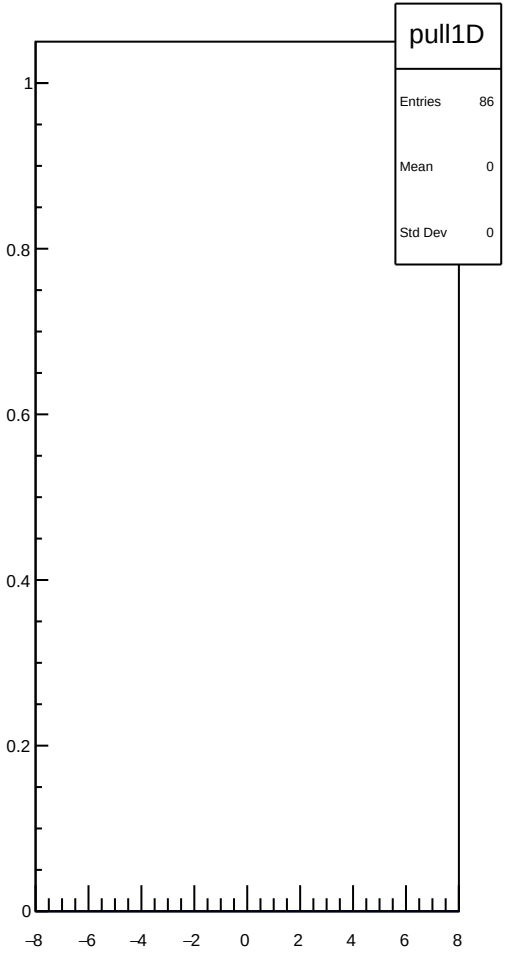

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

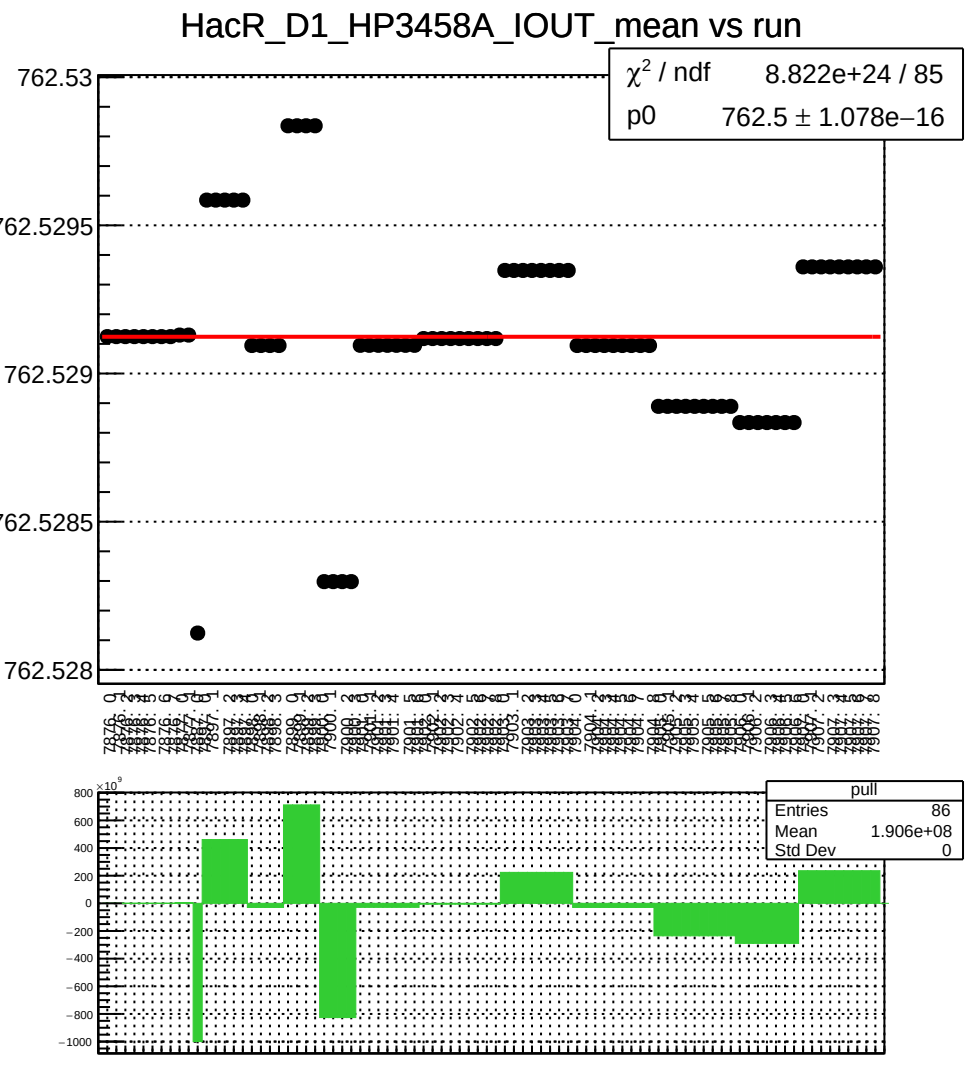

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.502e+29 / 85
p0 980.9 ± 1.078e−16
981
980.95
980.9
980.85
980.8
pull
Entries 86
Mean −4.821e+09
Std Dev 0
×10¹²
120
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

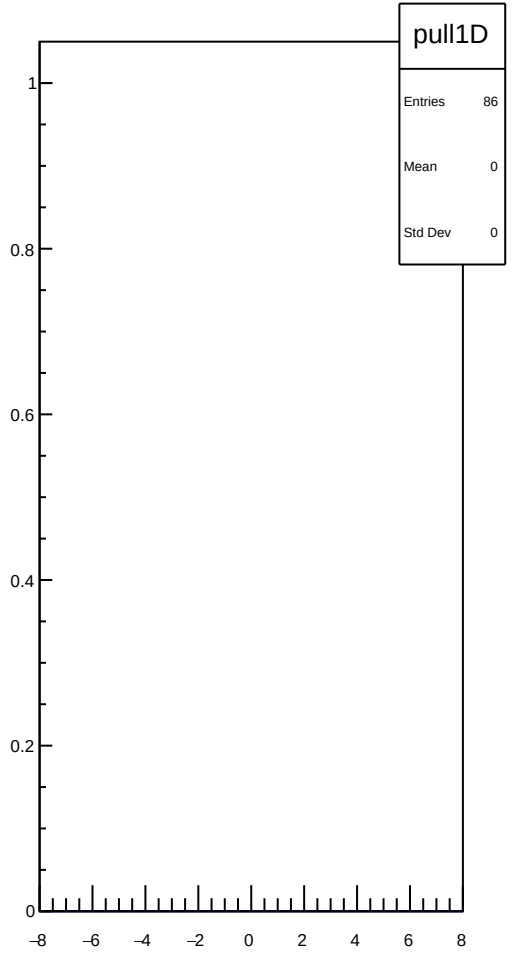

MQ172RM_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82

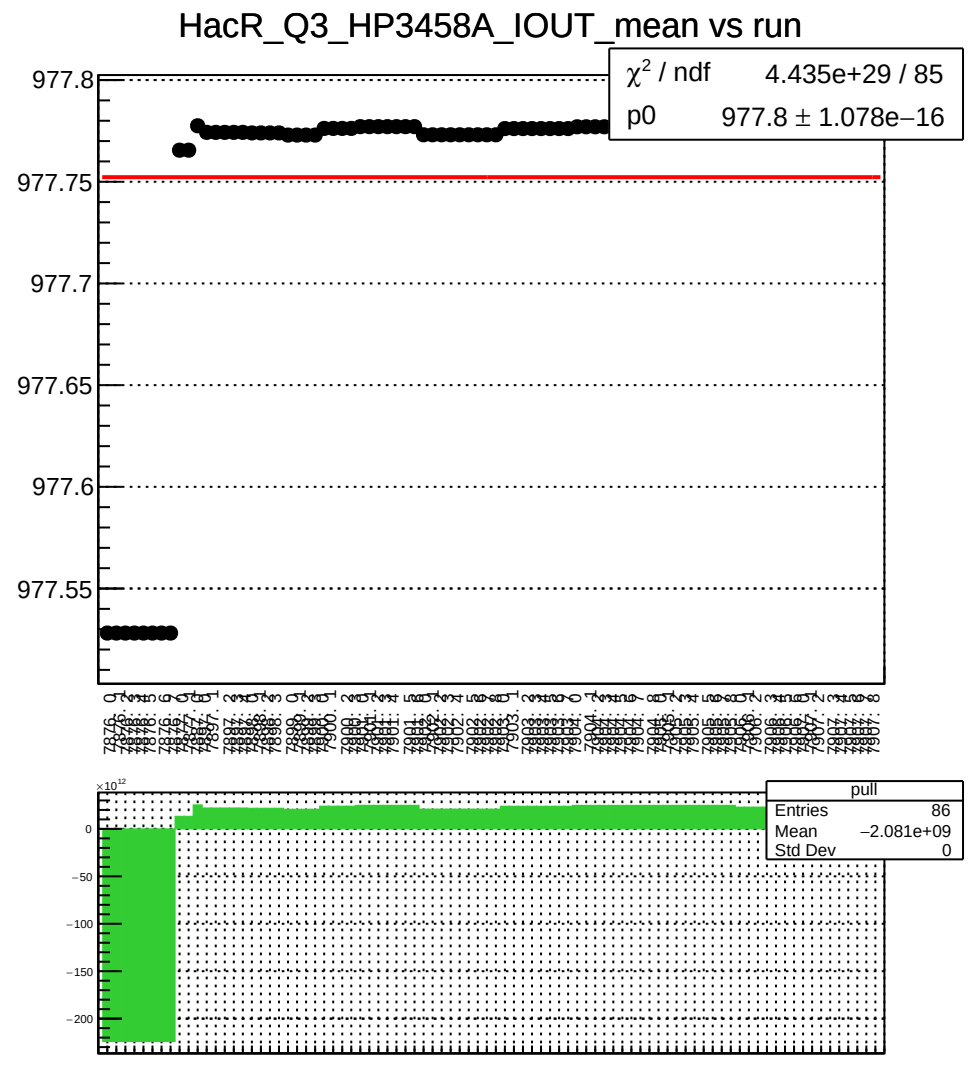

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

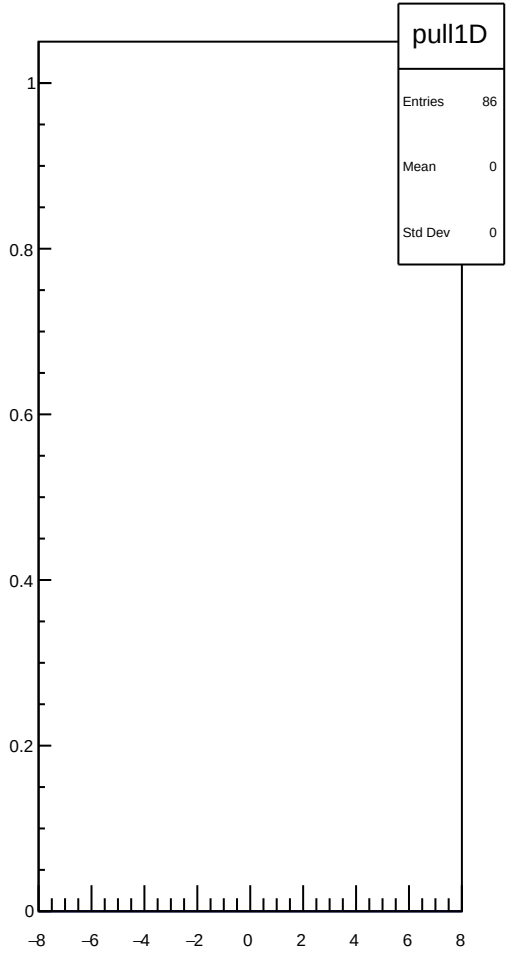

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.15e+27 / 85
p0 925 ± 1.078e−16
925.025
925.02
925.015
925.01
925.005
925
pull
Entries 86
Mean 1.546e+09
Std Dev 0
×10⁹
10000
5000
0
−5000
−10000

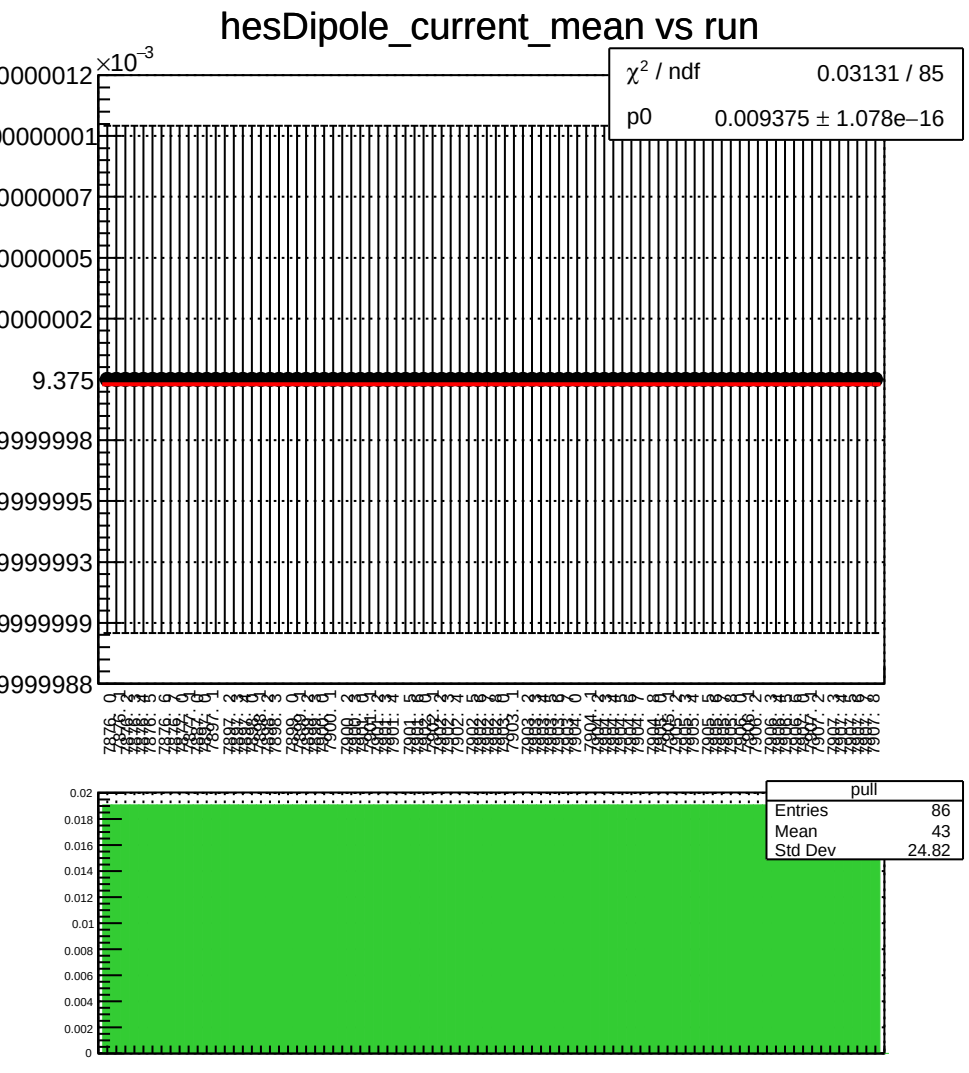

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

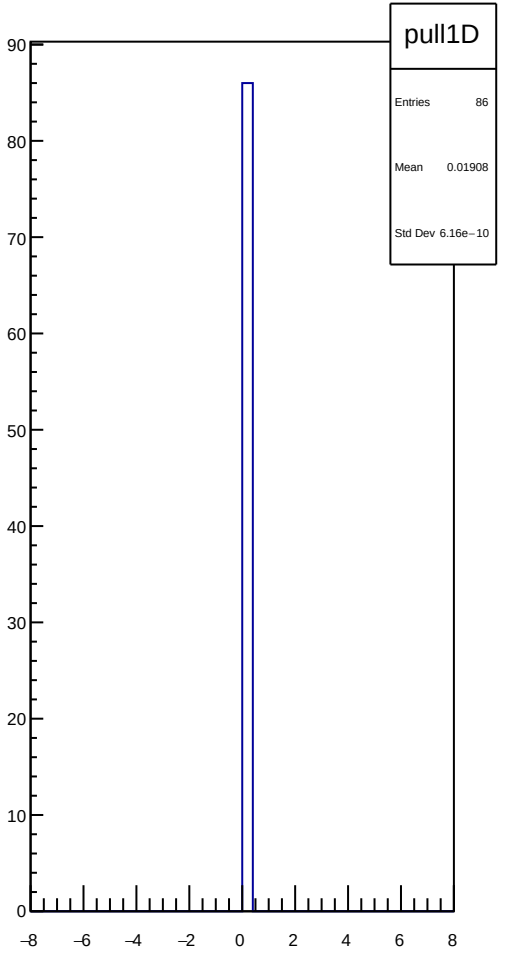

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 8.822e+24 / 85
p0 762.5 ± 1.078e−16
762.53
762.5295
762.529
762.5285
762.528
pull
Entries 86
Mean 1.906e+08
Std Dev 0
×10⁹
800
600
400
200
0
−200
−400
−600
−800
−1000

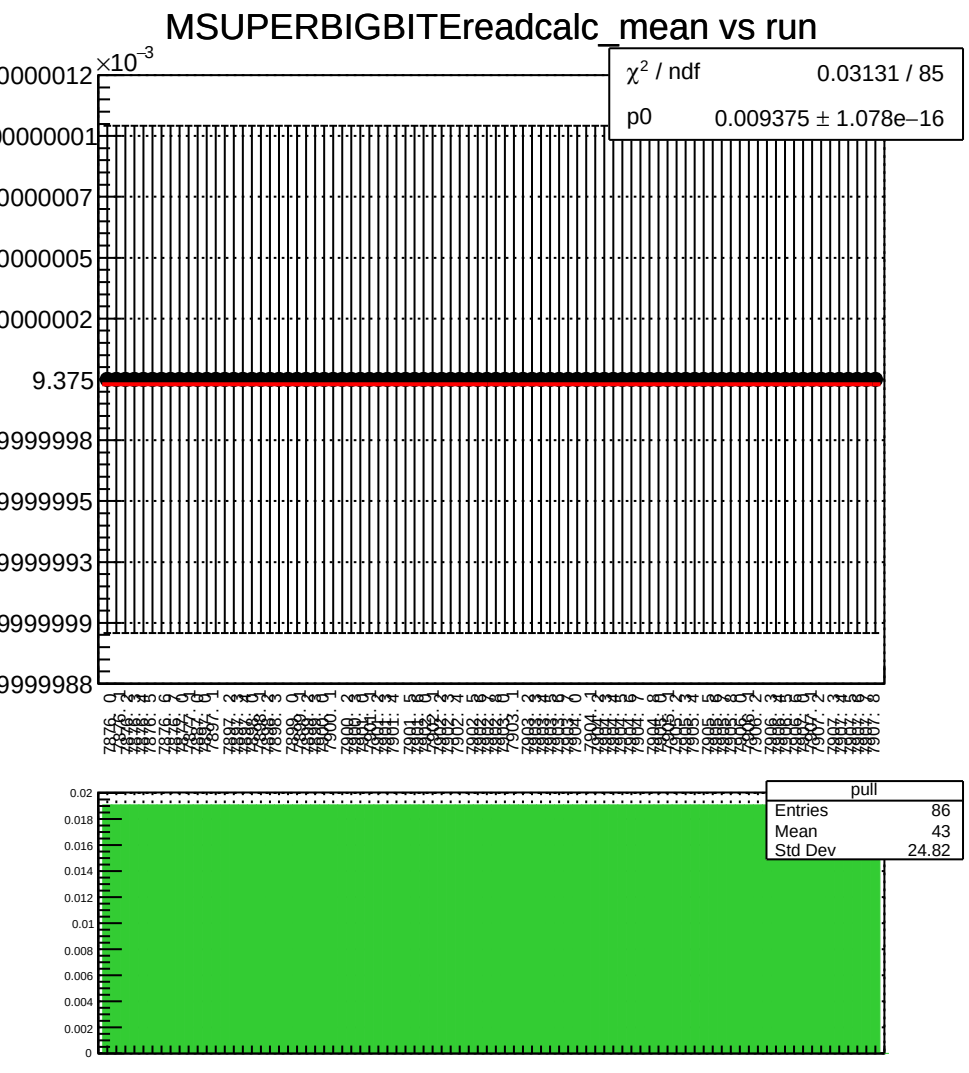

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

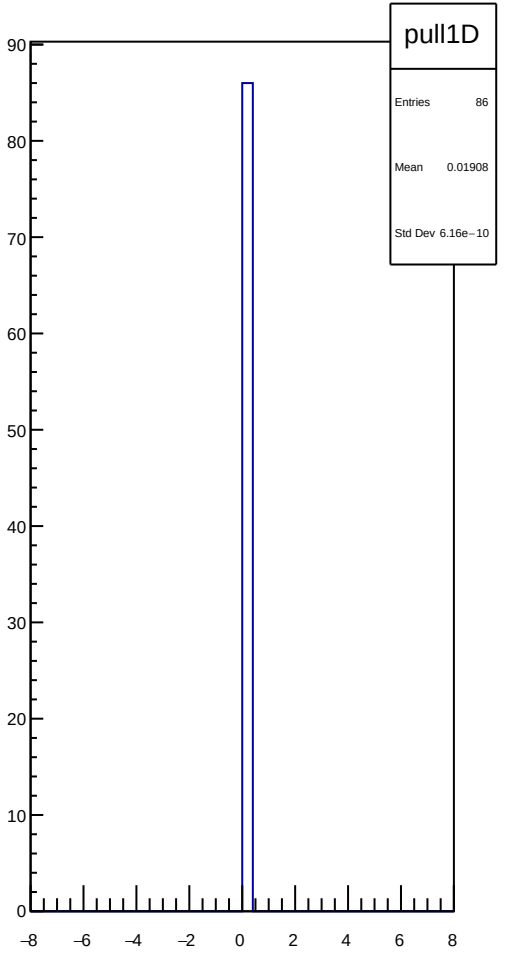

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.435e+29 / 85
p0 977.8 ± 1.078e−16
977.8
977.75
977.7
977.65
977.6
977.55
pull
Entries 86
Mean −2.081e+09
Std Dev 0
×10¹²
0
−50
−100
−150
−200

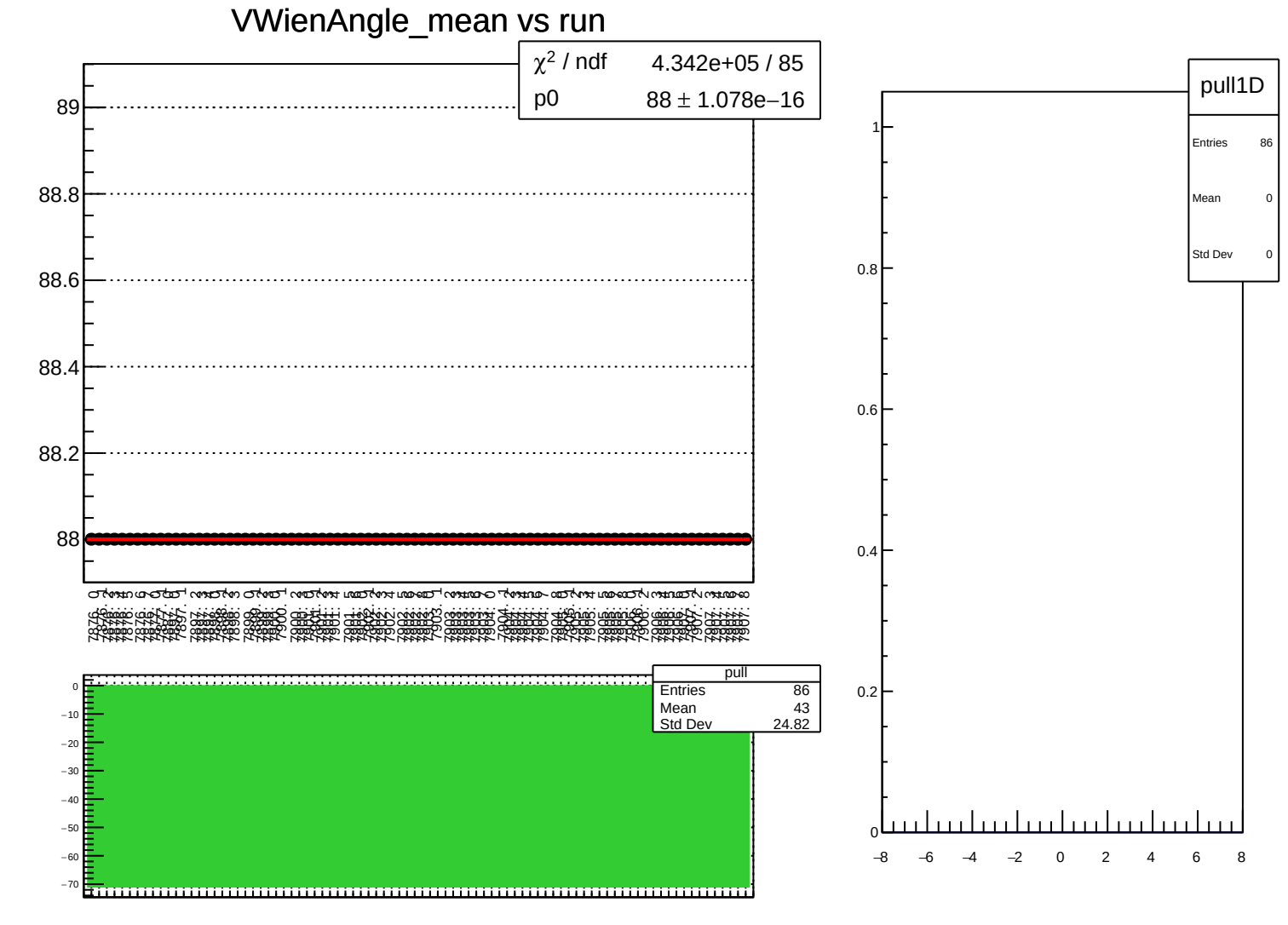

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

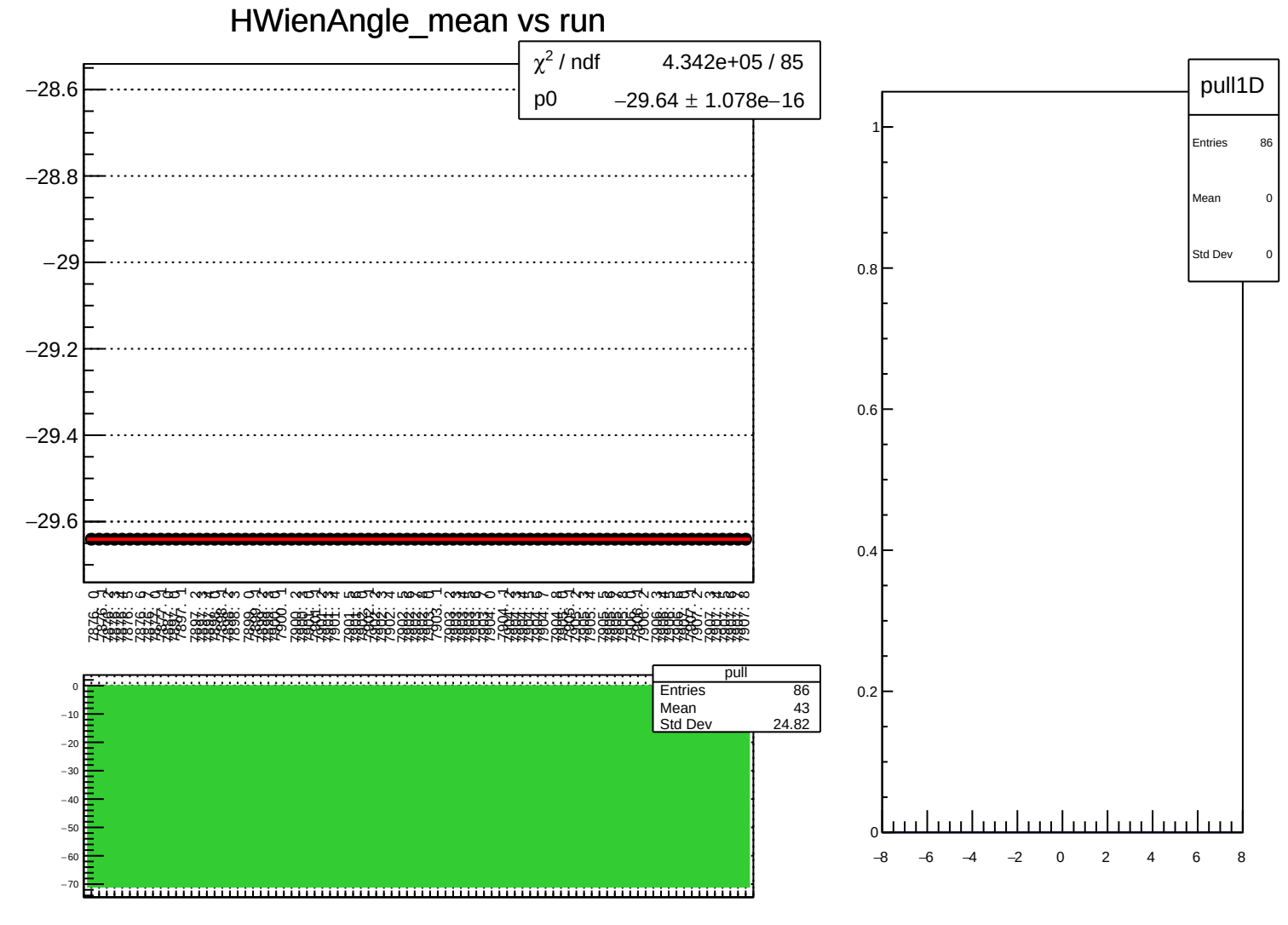

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
9.375
pull
Entries 86
Mean 43
Std Dev 24.82

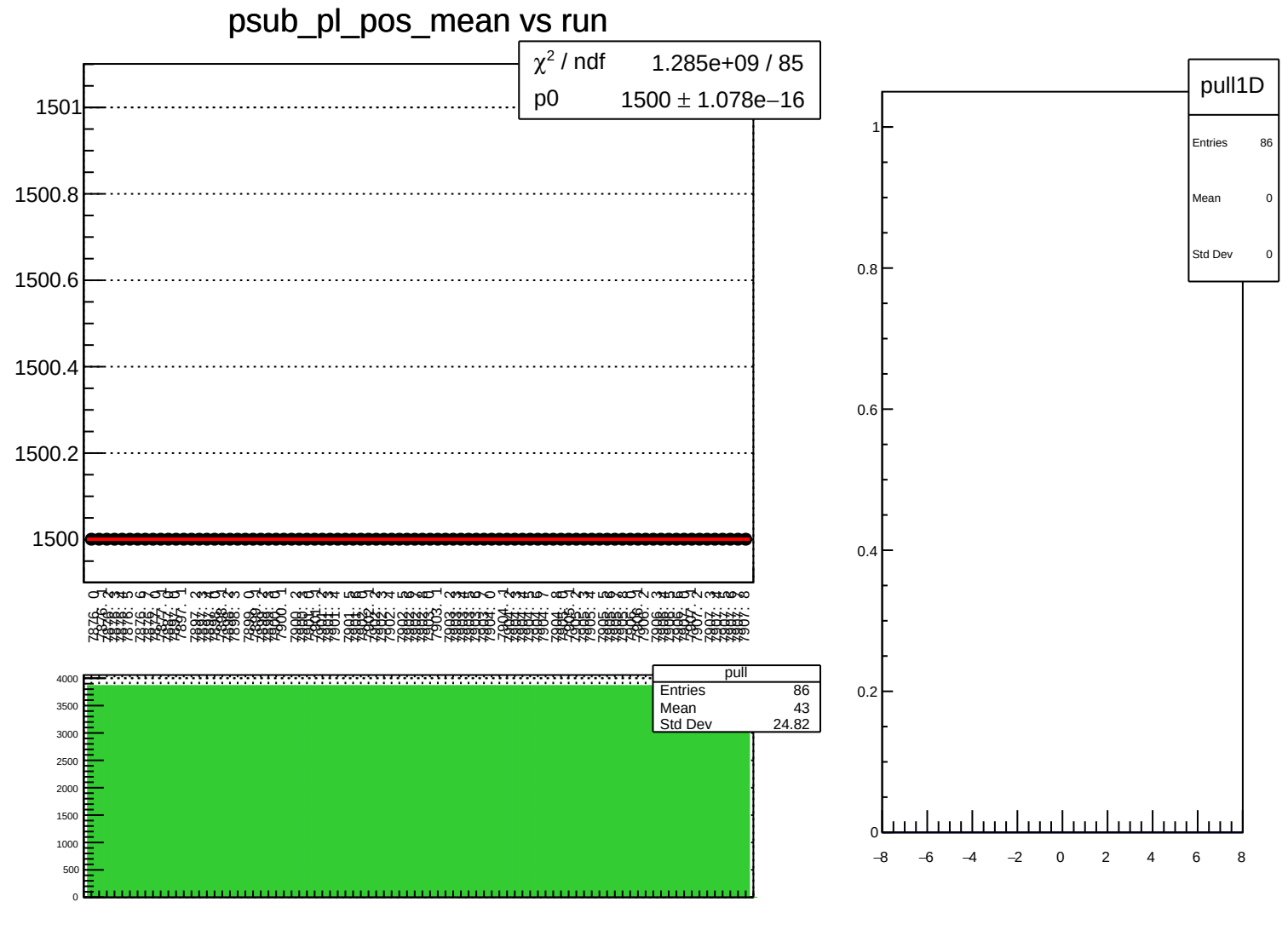

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

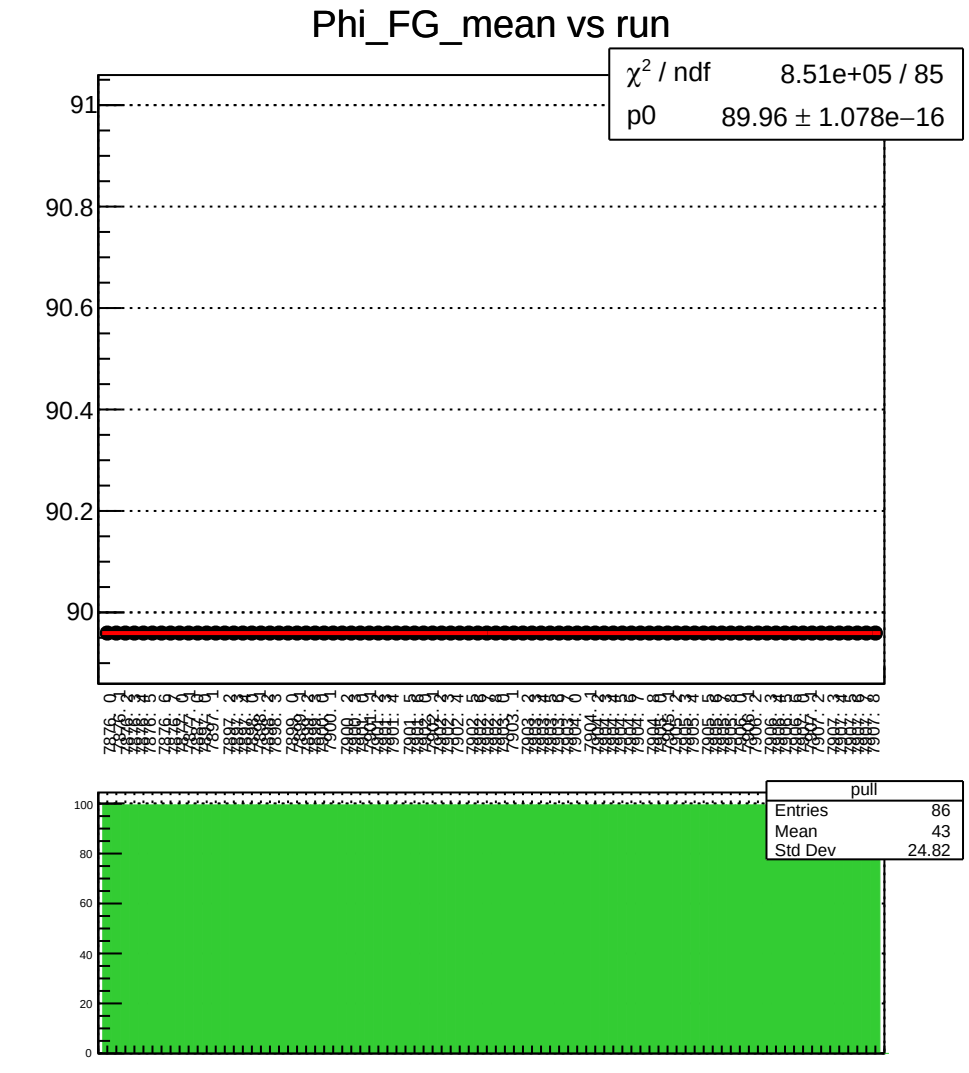

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
9.375
pull
Entries 86
Mean 43
Std Dev 24.82

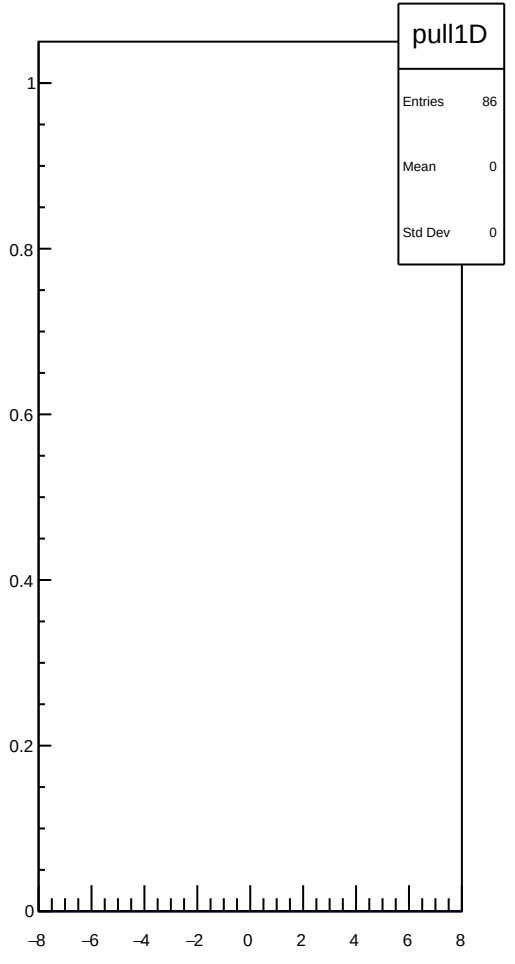

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

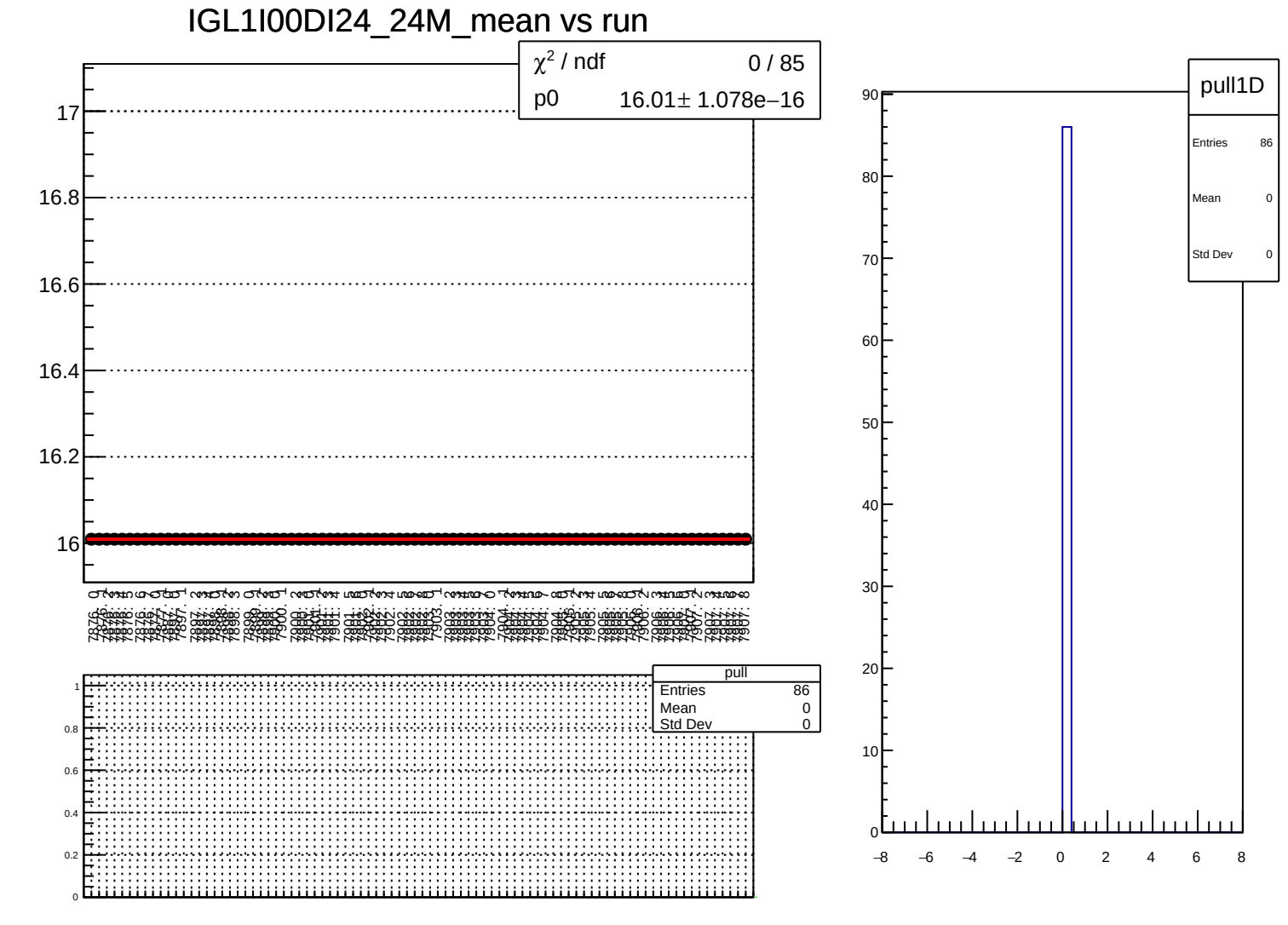

VWienAngle_mean vs run
χ² / ndf 4.342e+05 / 85
p0 88 ± 1.078e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 86
Mean 43
Std Dev 24.82
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

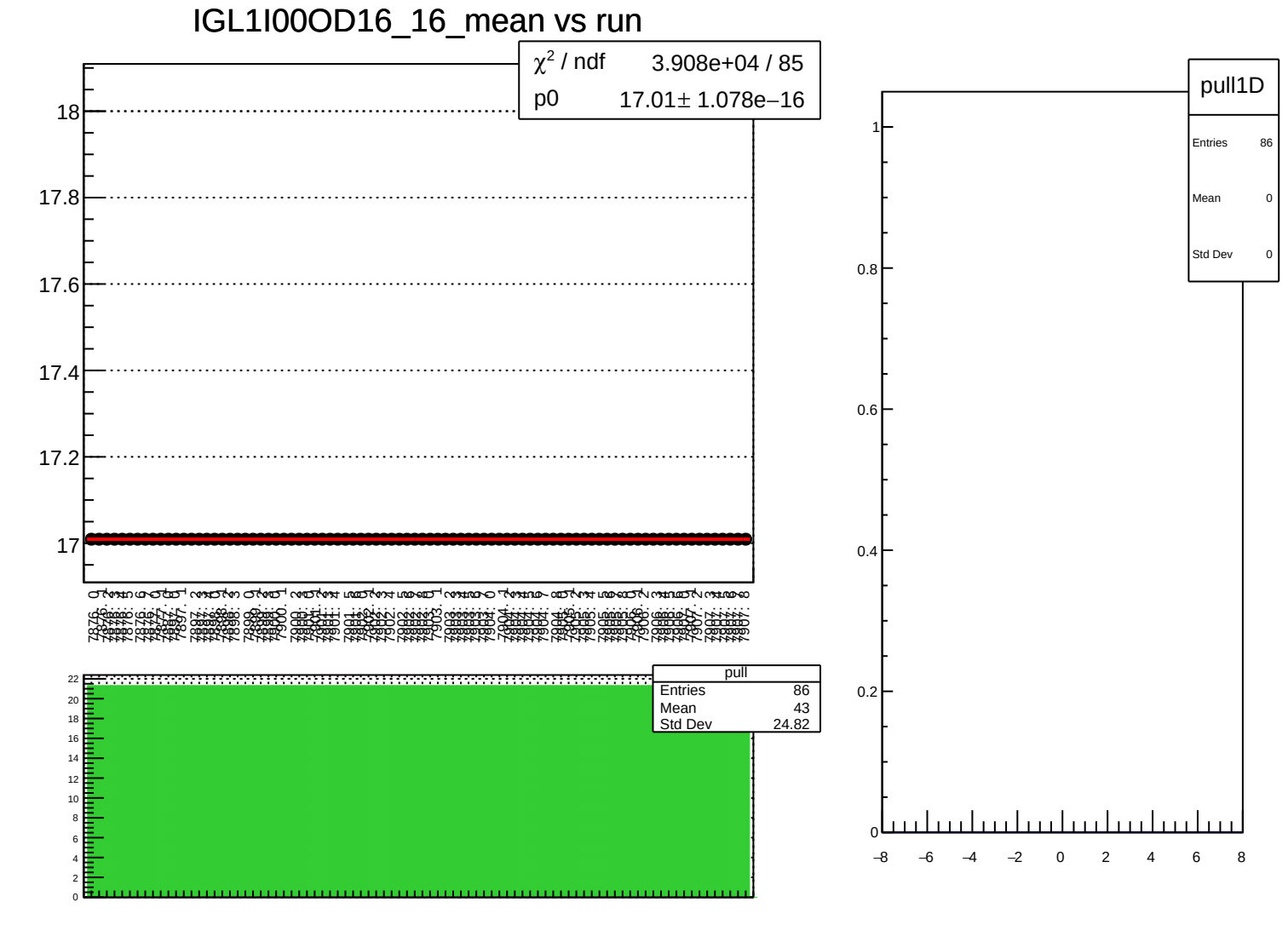

HWienAngle_mean vs run
χ² / ndf 4.342e+05 / 85
p0 −29.64 ± 1.078e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 86
Mean 43
Std Dev 24.82
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

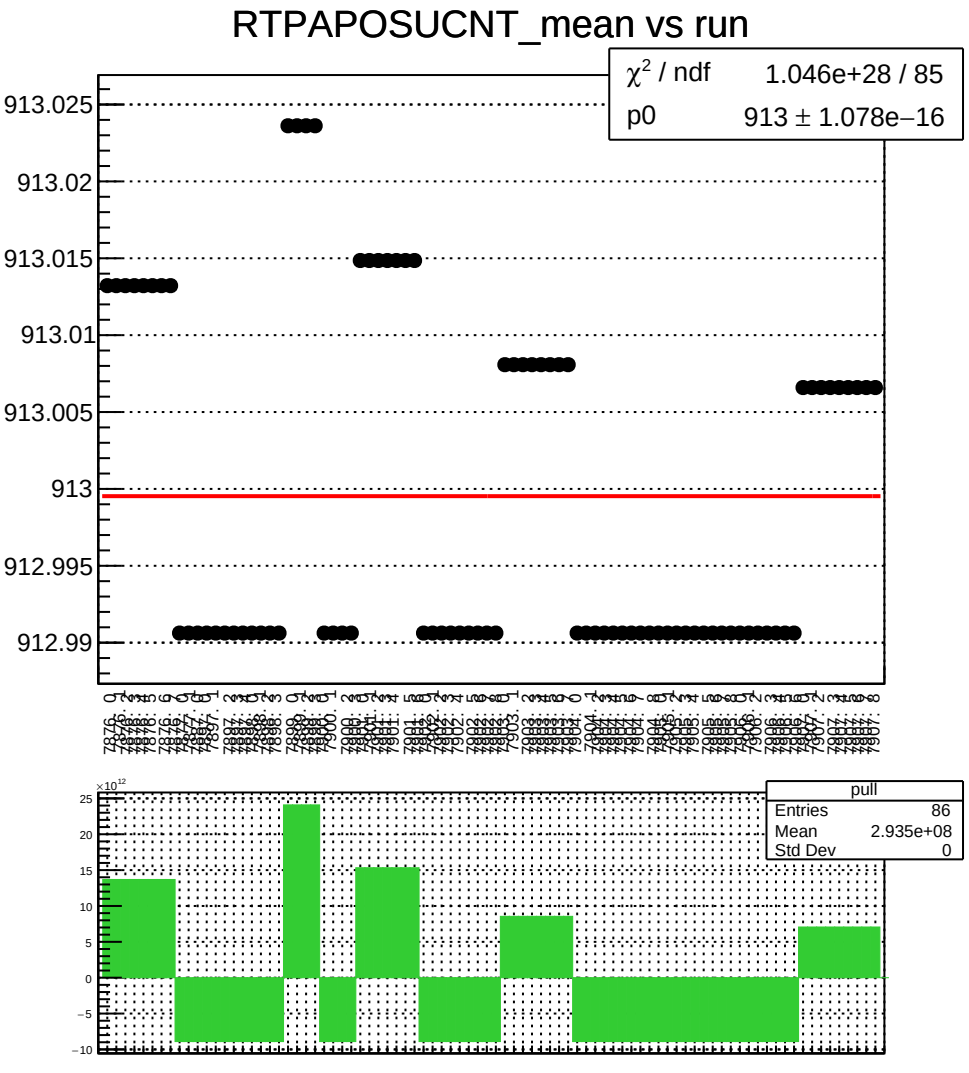

psub_pl_pos_mean vs run
χ² / ndf 1.285e+09 / 85
p0 1500 ± 1.078e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 86
Mean 43
Std Dev 24.82
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

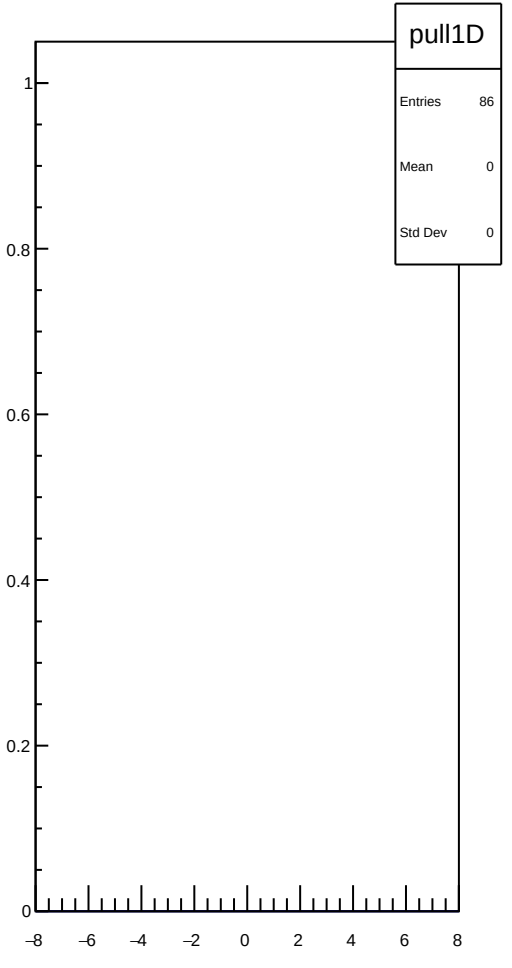

Phi_FG_mean vs run
χ² / ndf 8.51e+05 / 85
p0 89.96 ± 1.078e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 86
Mean 43
Std Dev 24.82
100
80
60
40
20
0

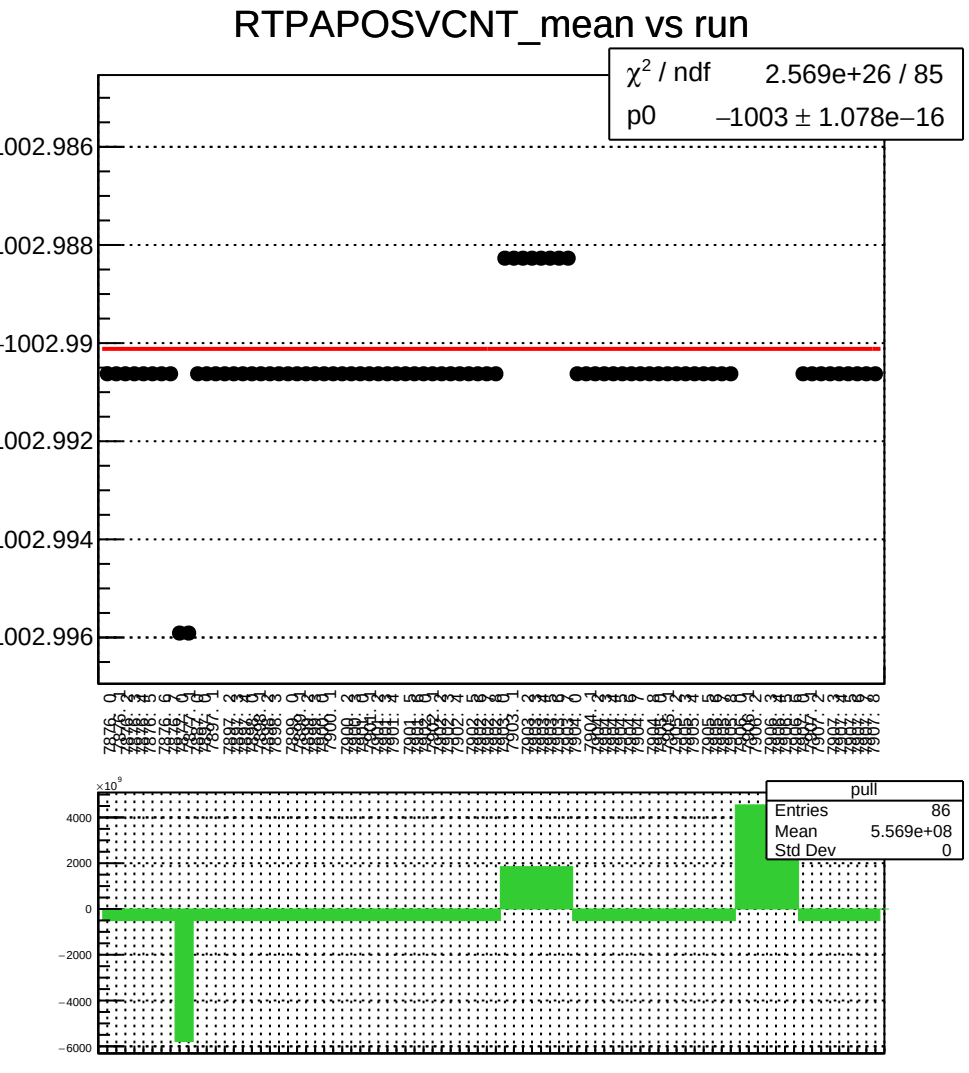

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

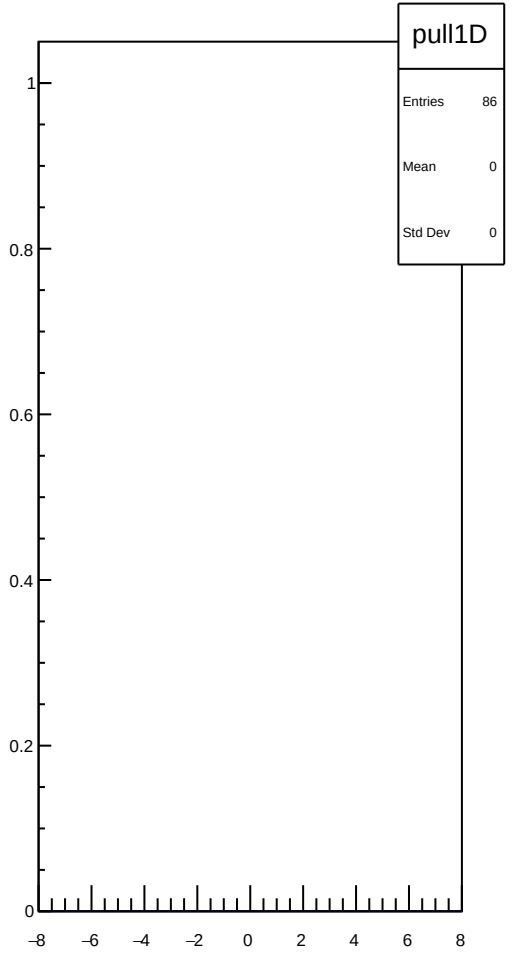

IGL1I00DI24_24M_mean vs run
χ² / ndf 0 / 85
p0 16.01± 1.078e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 86
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

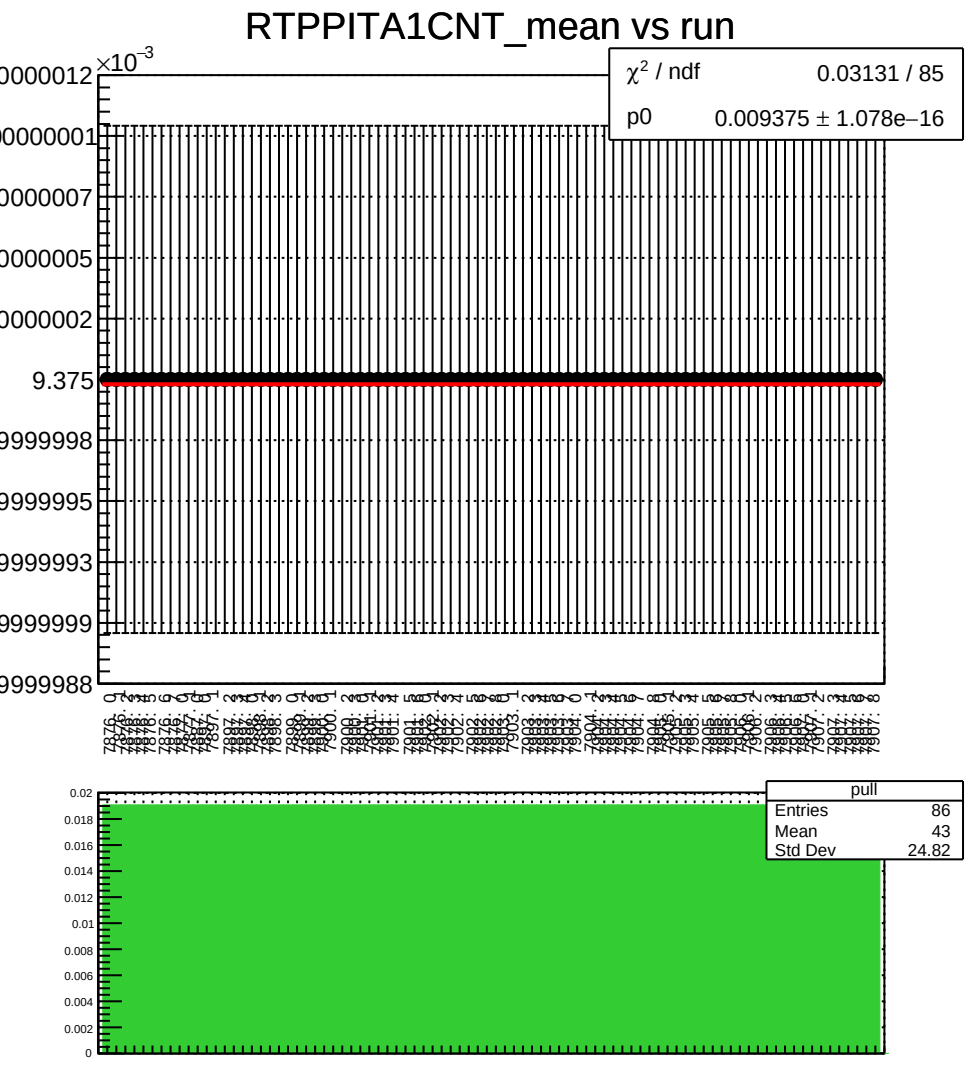

IGL1I00OD16_16_mean vs run
χ² / ndf 3.908e+04 / 85
p0 17.01± 1.078e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 86
Mean 43
Std Dev 24.82
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

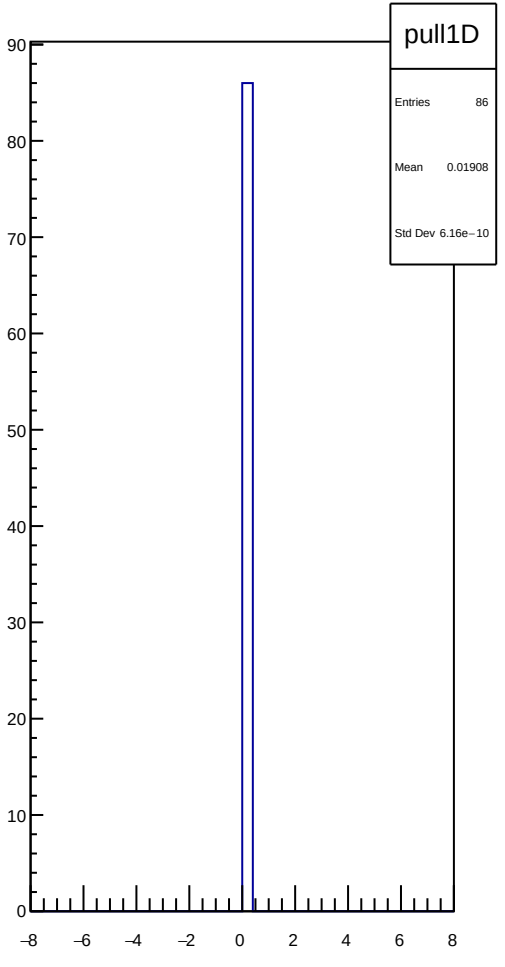

RTPAPOSUCNT_mean vs run
χ² / ndf 1.046e+28 / 85
p0 913 ± 1.078e−16
913.025
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 86
Mean 2.935e+08
Std Dev 0
×10¹²
25
20
15
10
5
0
−5
−10

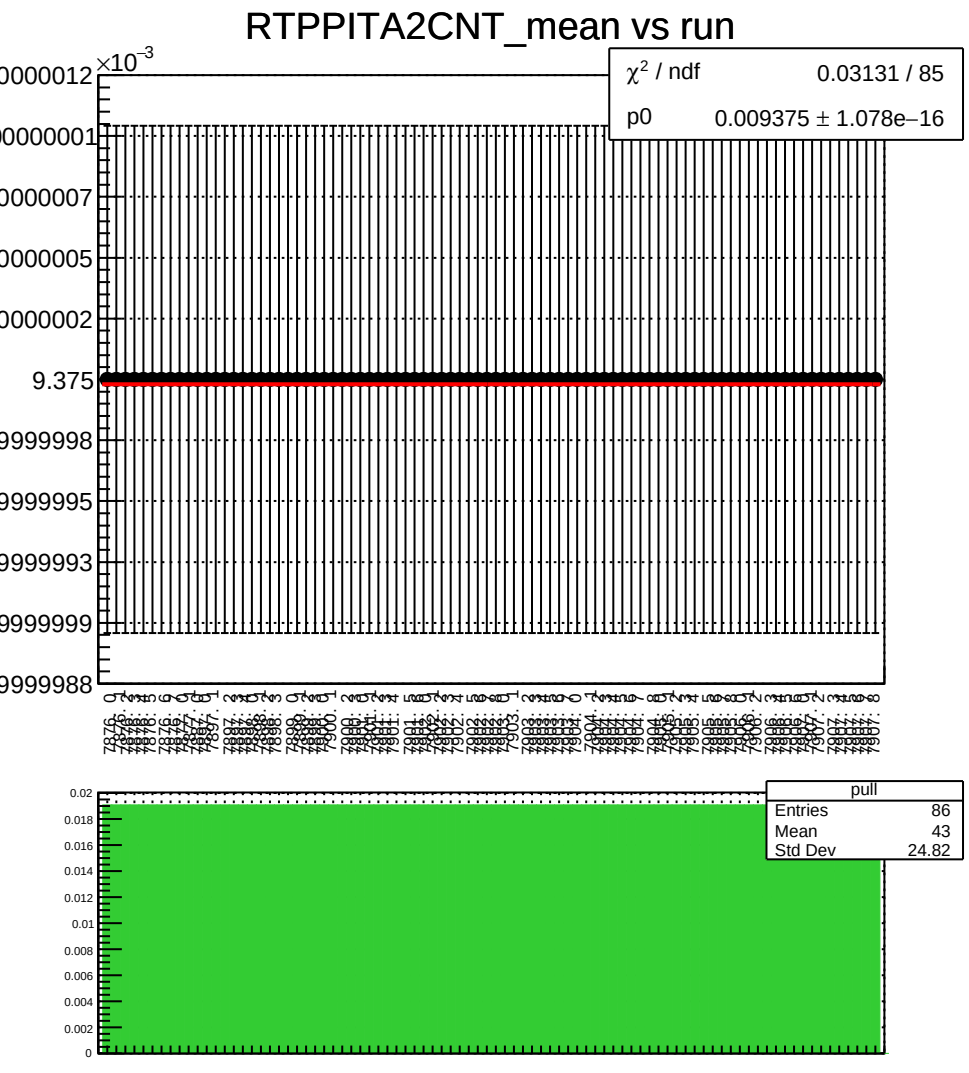

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

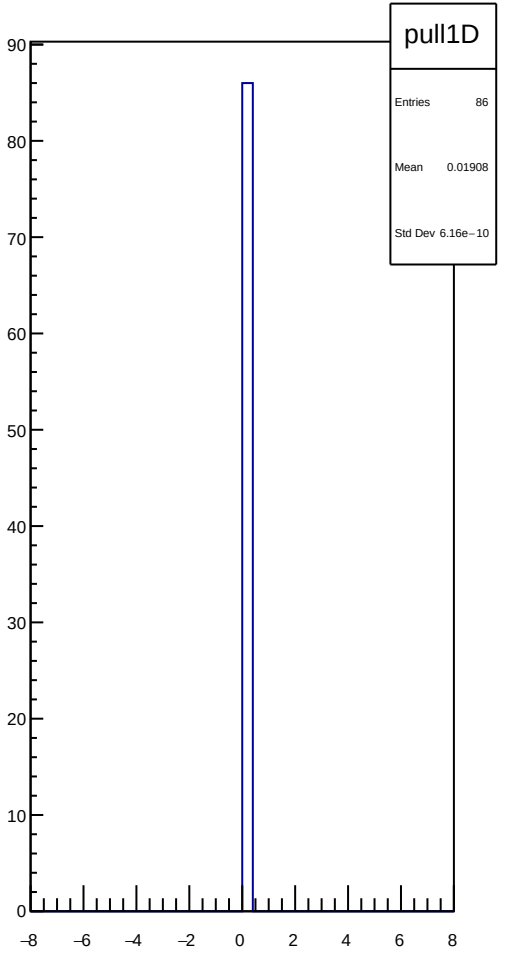

RTPAPOSVCNT_mean vs run
χ² / ndf 2.569e+26 / 85
p0 −1003 ± 1.078e−16
−1002.986
−1002.988
−1002.99
−1002.992
−1002.994
−1002.996
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 5.569e+08
Std Dev 0


pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82


pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10


RTPPITA2CNT_mean vs run
×10⁻³
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
9.375
pull
Entries 86
Mean 43
Std Dev 24.82


pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10